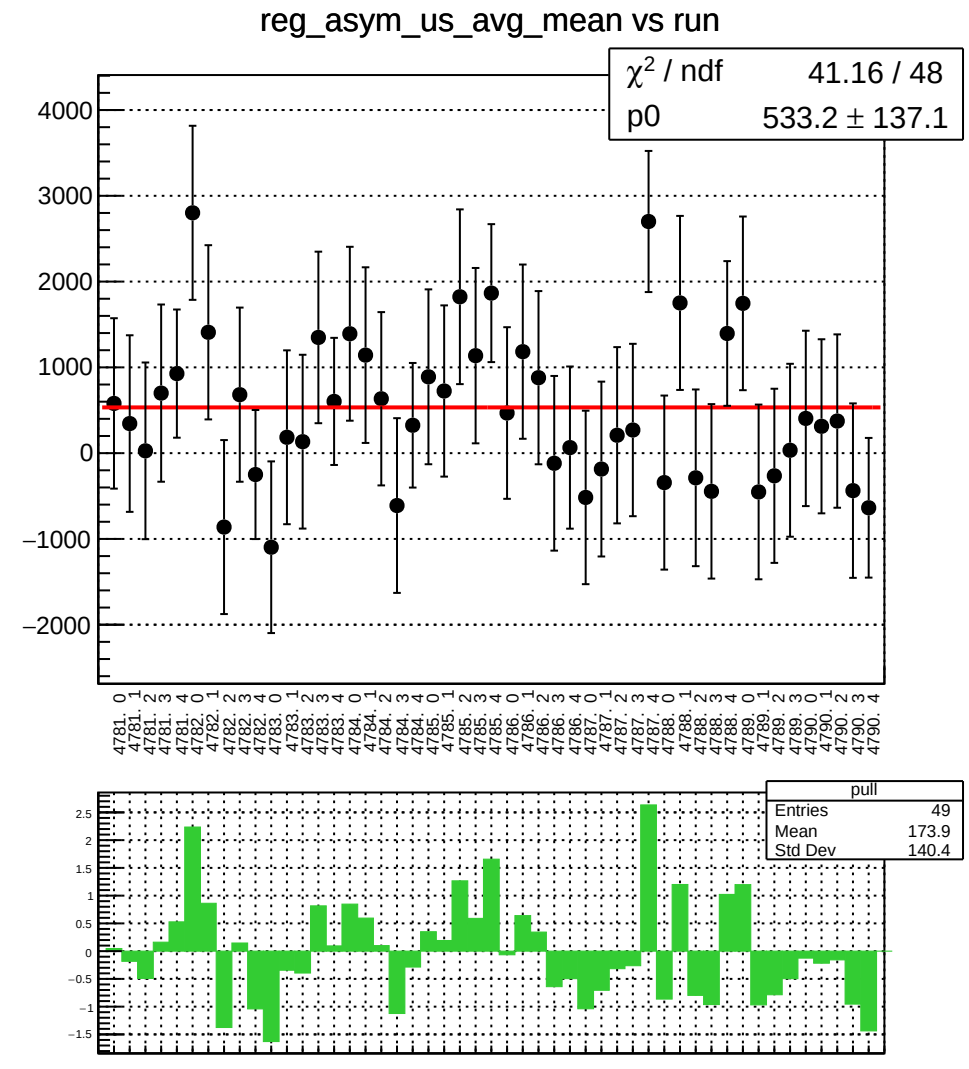
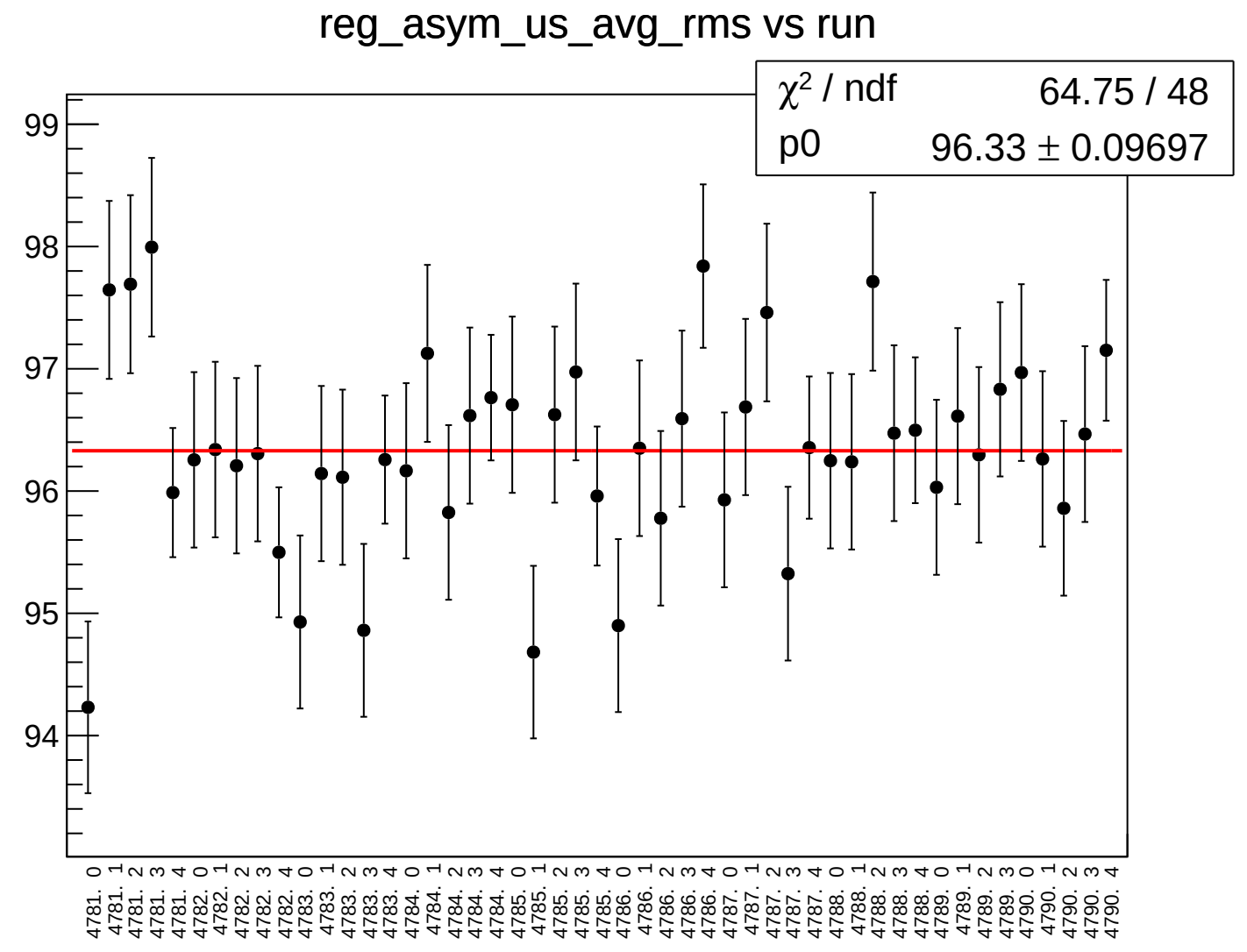

reg_asym_us_avg_mean vs run
χ² / ndf 41.16 / 48
p0 533.2 ± 137.1
4000
3000
2000
1000
0
−1000
−2000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 173.9
Std Dev 140.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 49
Mean −0.01273
Std Dev 0.9165
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_rms vs run
χ² / ndf 64.75 / 48
p0 96.33 ± 0.09697
99
98
97
96
95
94
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
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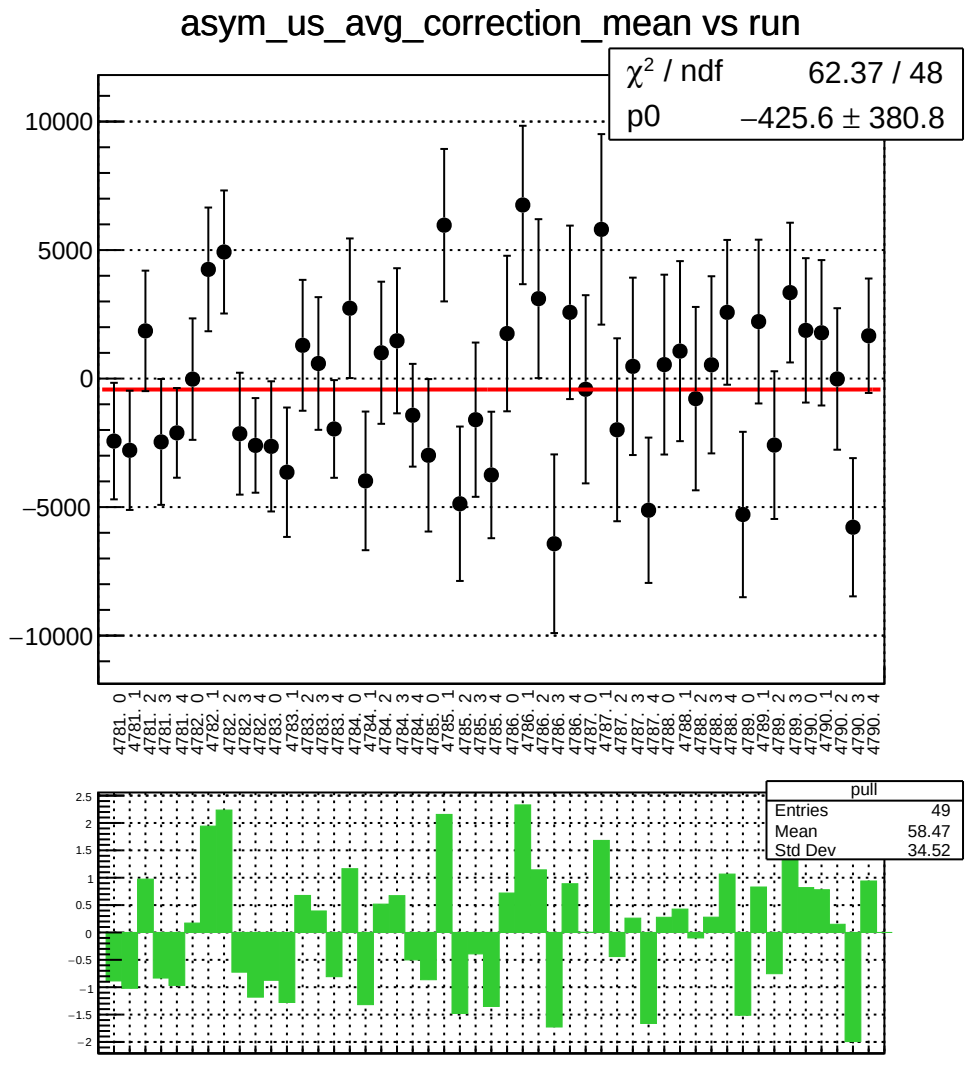
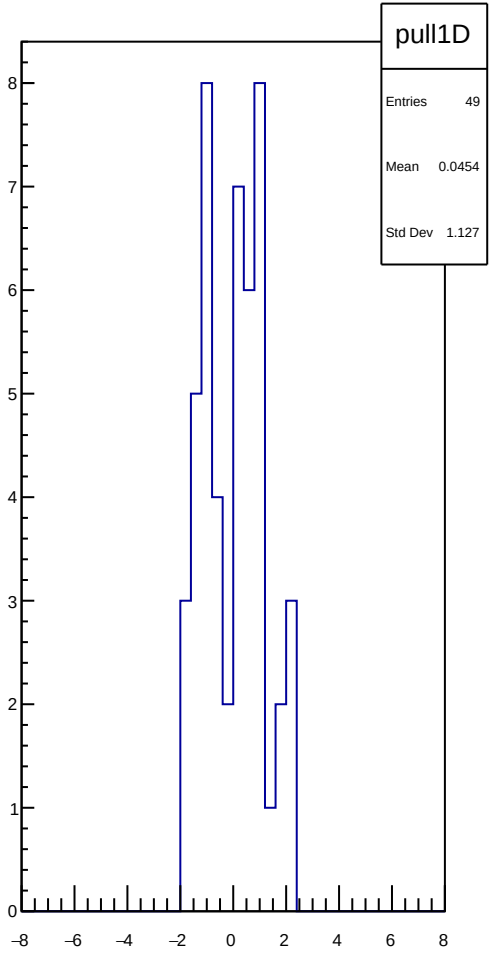
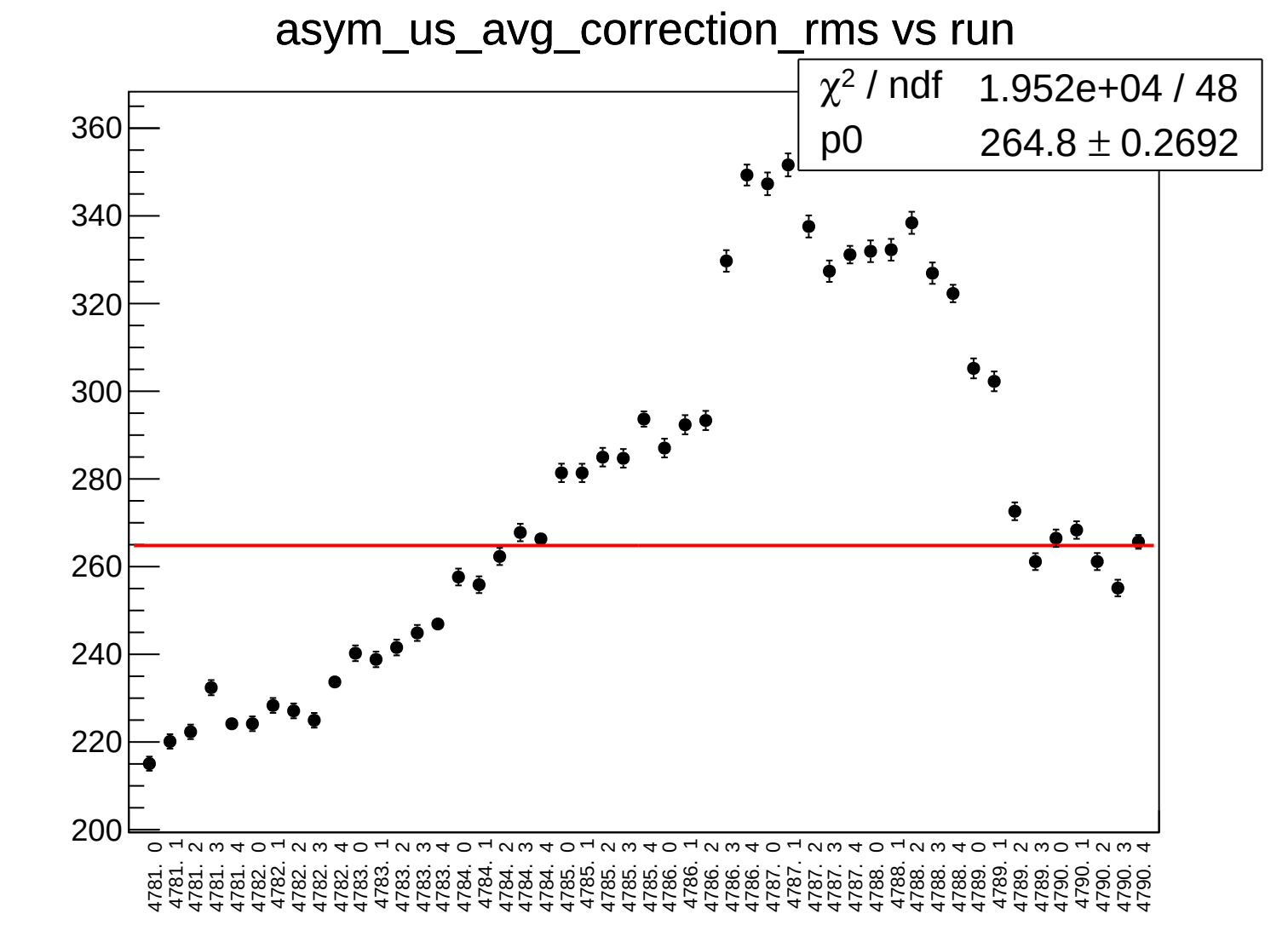
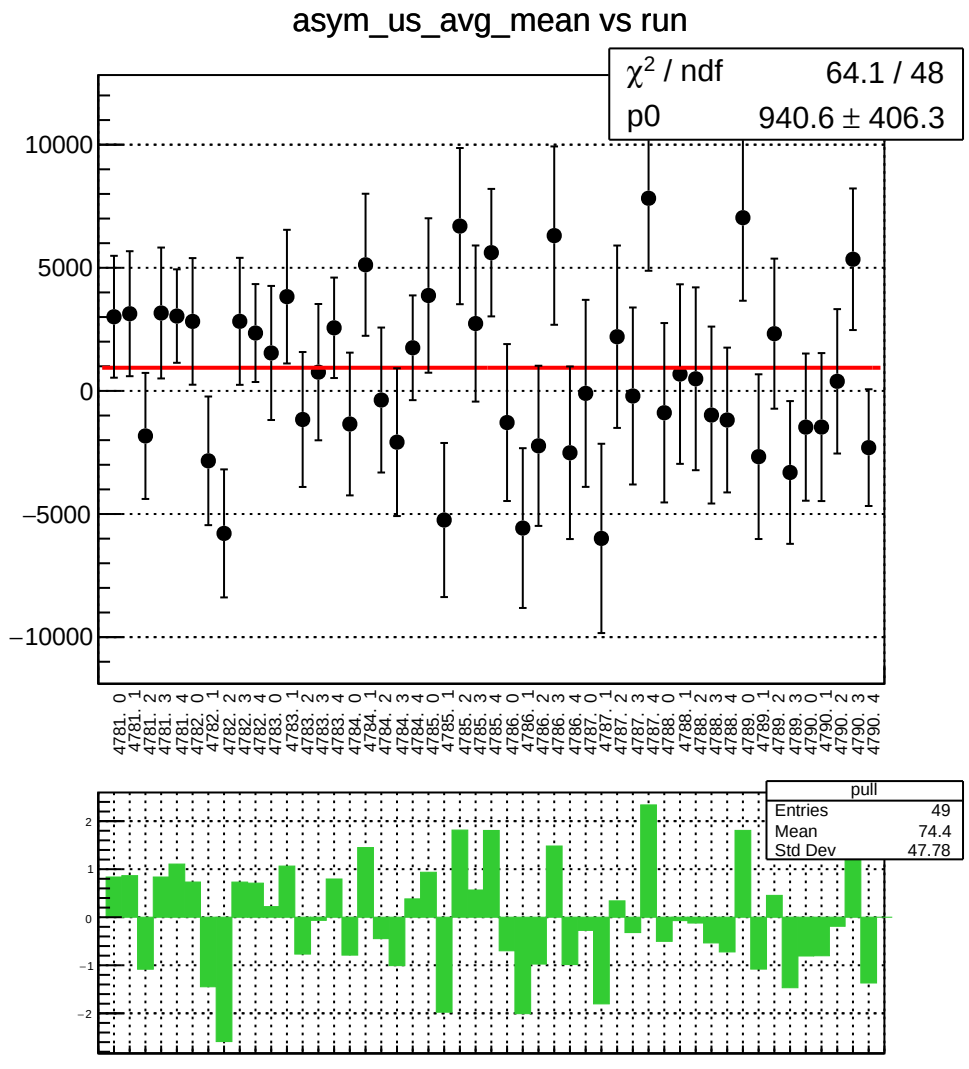
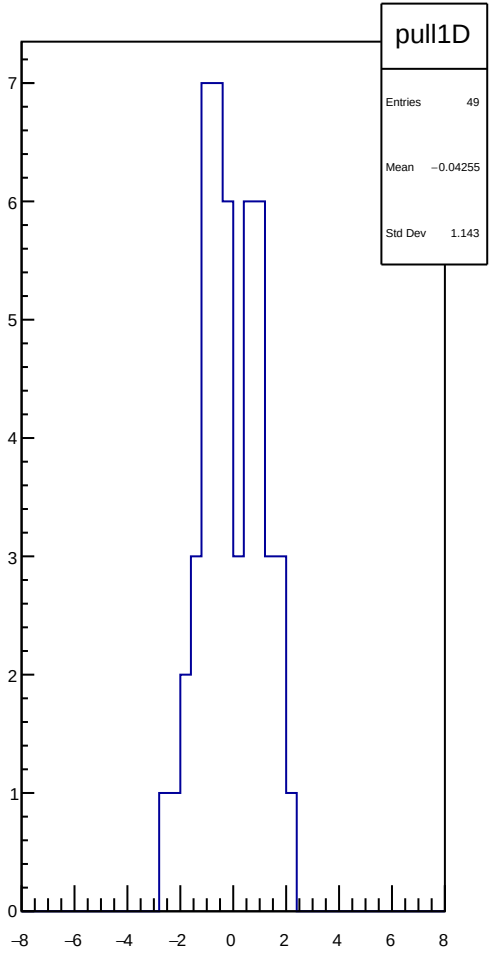
4790. 3
4790. 4

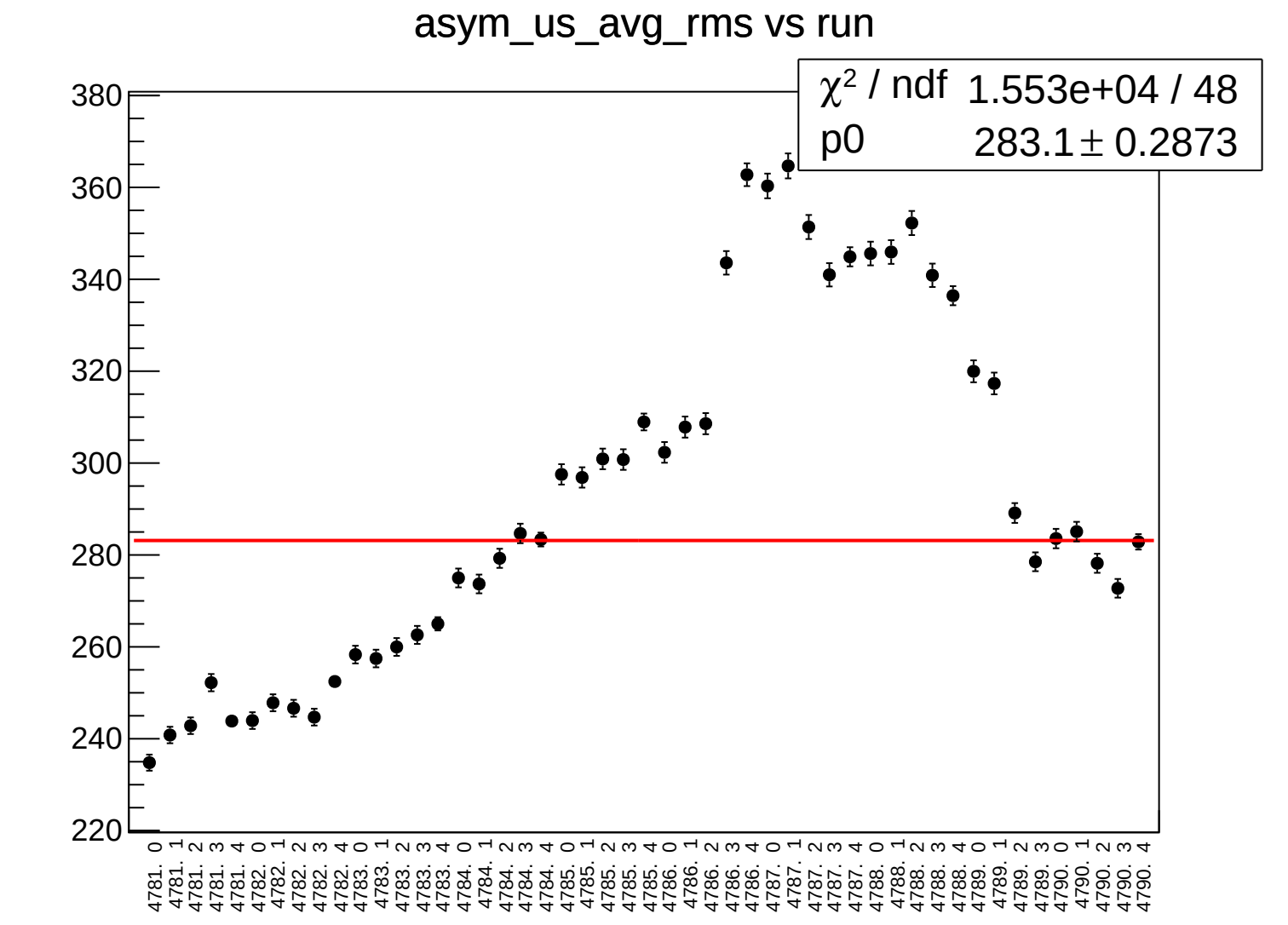

asym_us_avg_correction_mean vs run
χ² / ndf 62.37 / 48
p0 −425.6 ± 380.8
10000
5000
0
−5000
−10000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 58.47
Std Dev 34.52
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

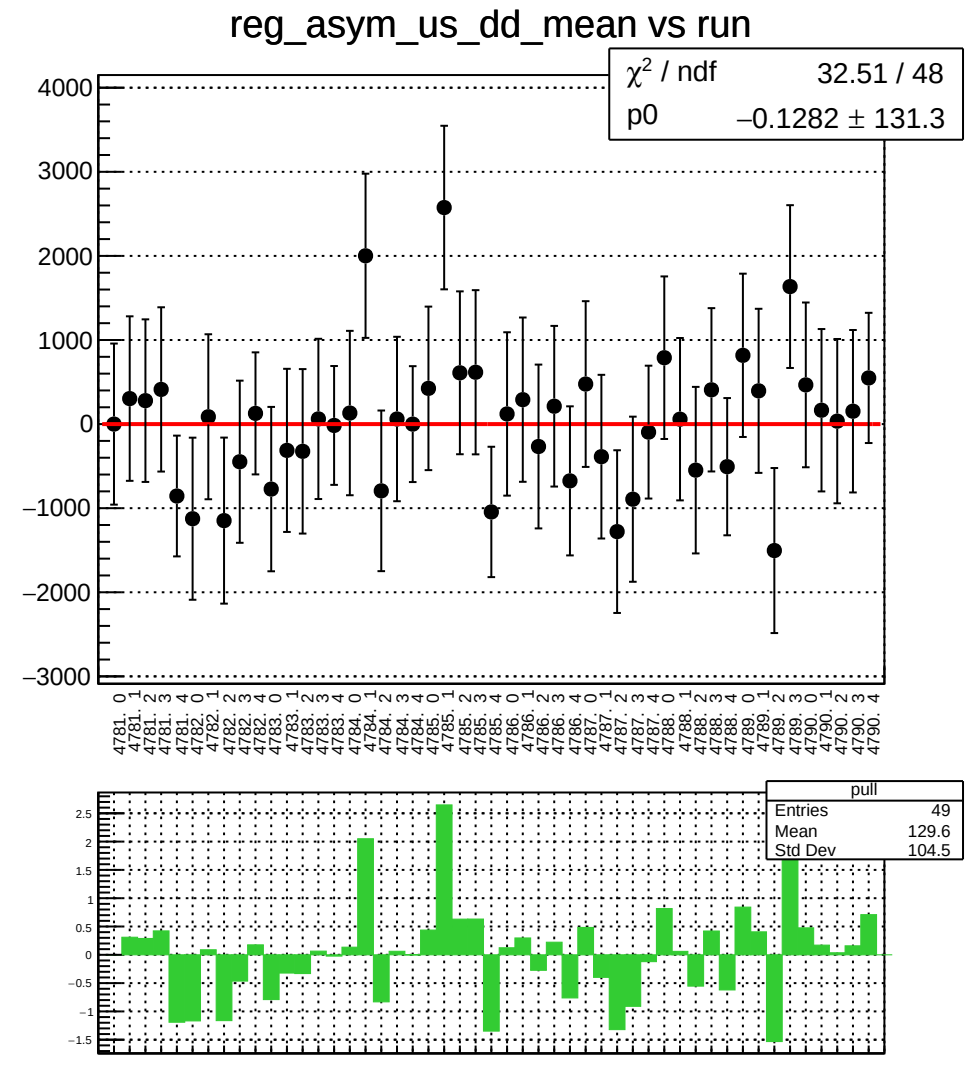

pull1D
Entries 49
Mean 0.0454
Std Dev 1.127
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

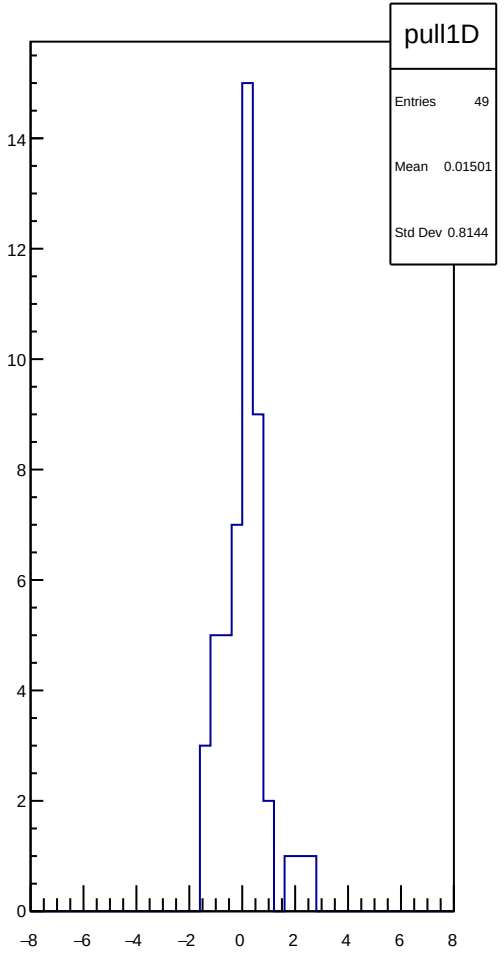

asym_us_avg_correction_rms vs run
χ² / ndf 1.952e+04 / 48
p0 264.8 ± 0.2692
360
340
320
300
280
260
240
220
200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

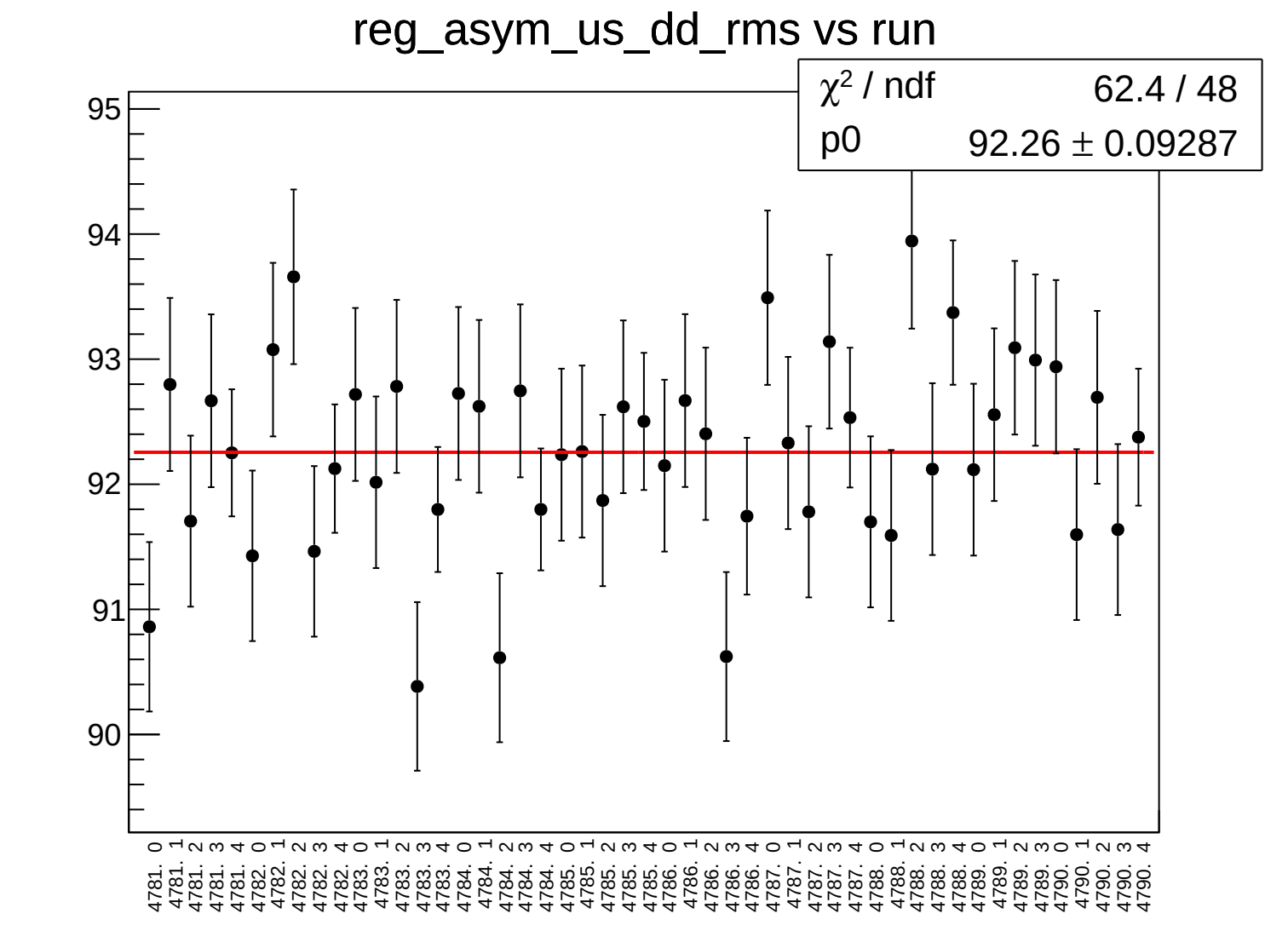

asym_us_avg_mean vs run
χ² / ndf 64.1 / 48
p0 940.6 ± 406.3
10000
5000
0
−5000
−10000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 74.4
Std Dev 47.78
2
1
0
−1
−2

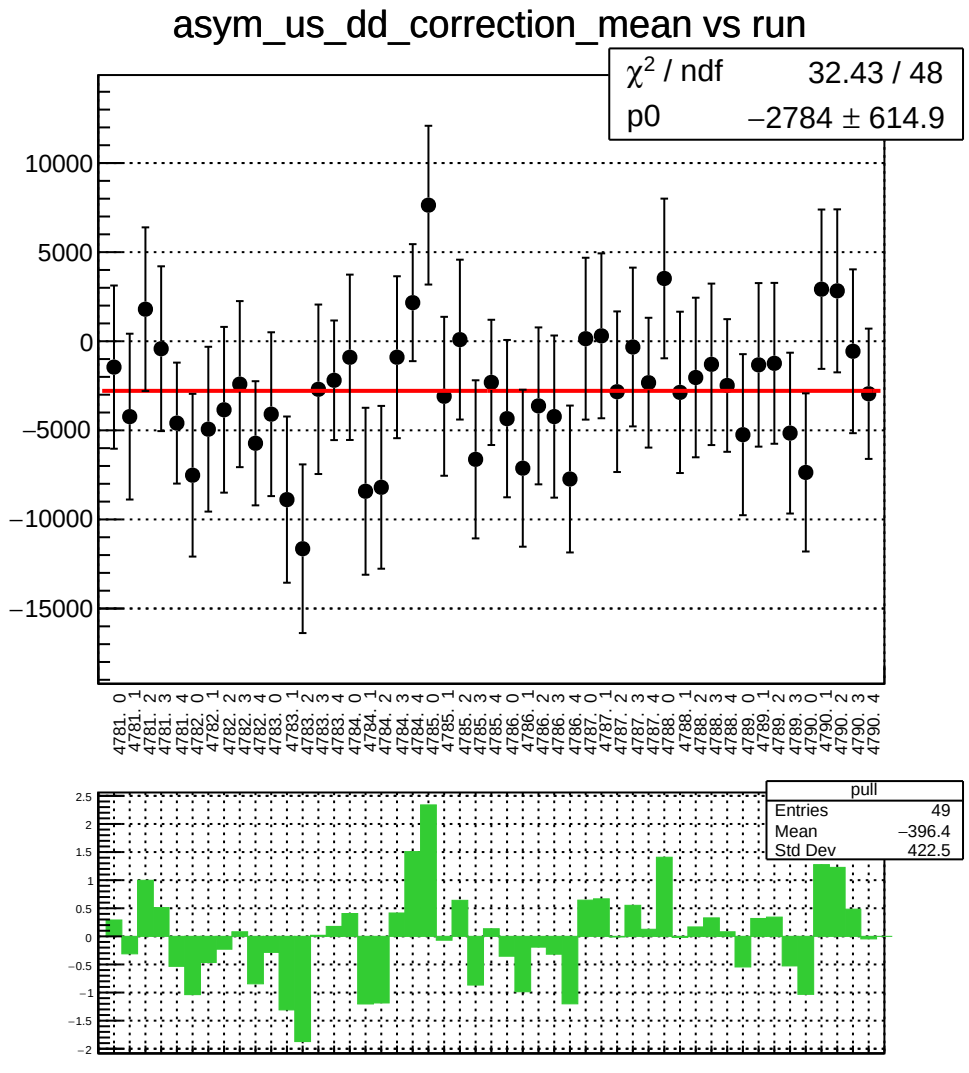

pull1D
Entries 49
Mean −0.04255
Std Dev 1.143
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

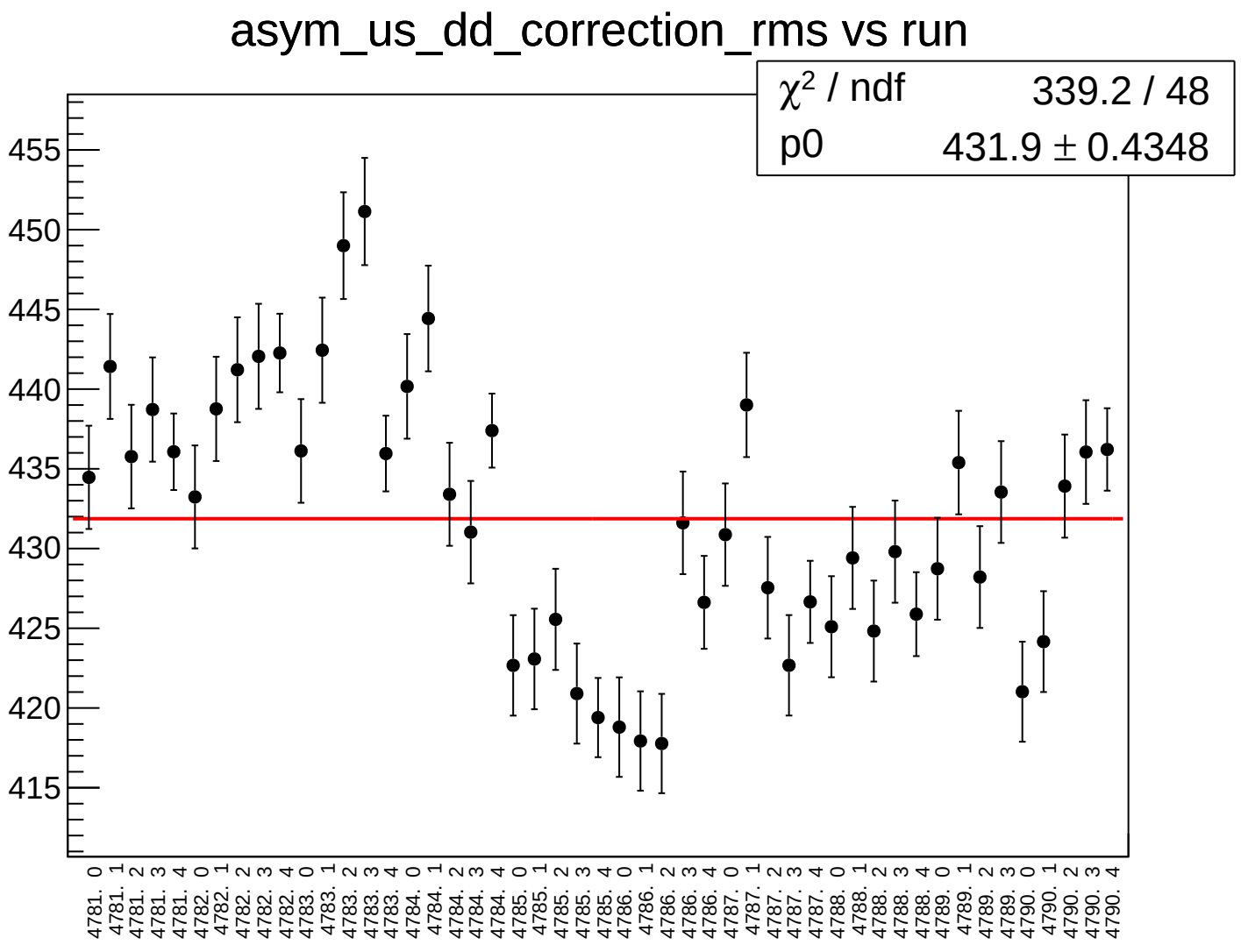

asym_us_avg_rms vs run
χ² / ndf 1.553e+04 / 48
p0 283.1 ± 0.2873
380
360
340
320
300
280
260
240
220
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

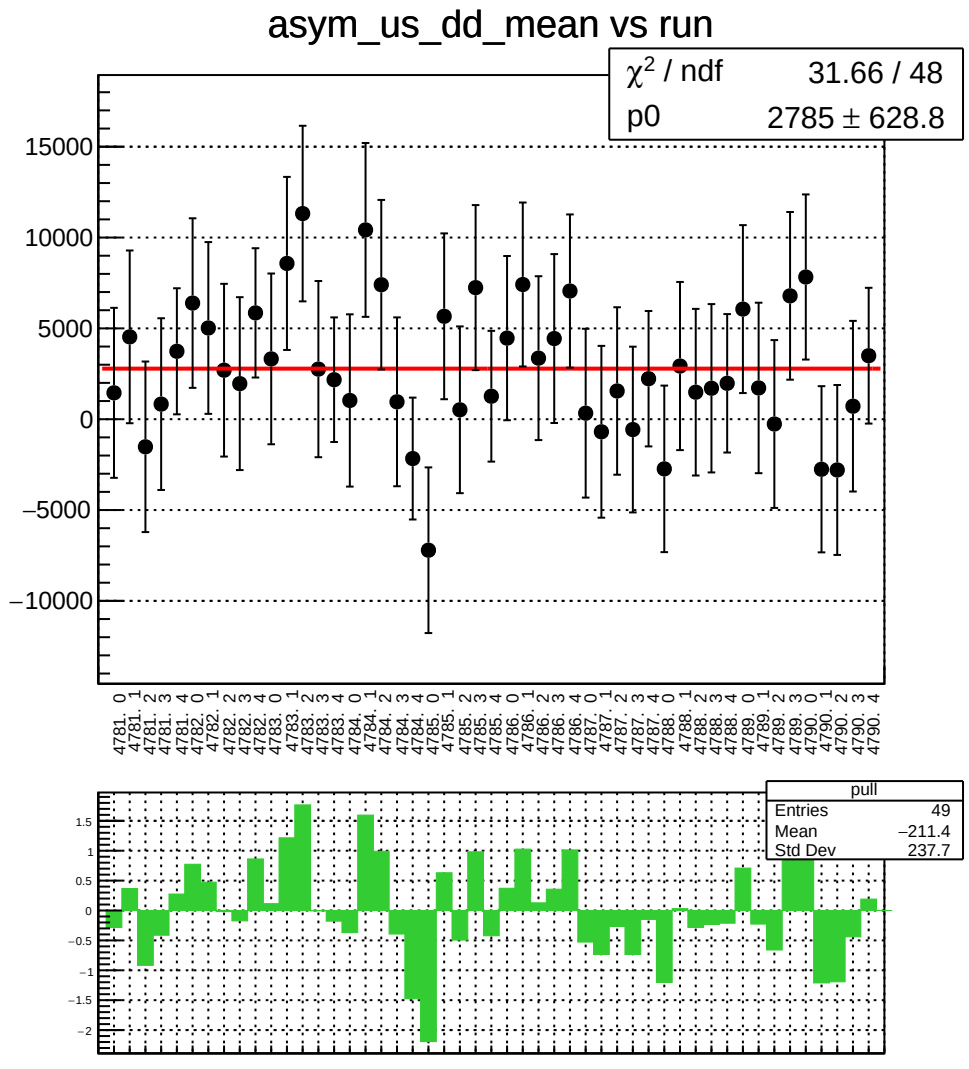

reg_asym_us_dd_mean vs run
χ² / ndf 32.51 / 48
p0 −0.1282 ± 131.3
pull
Entries 49
Mean 129.6
Std Dev 104.5

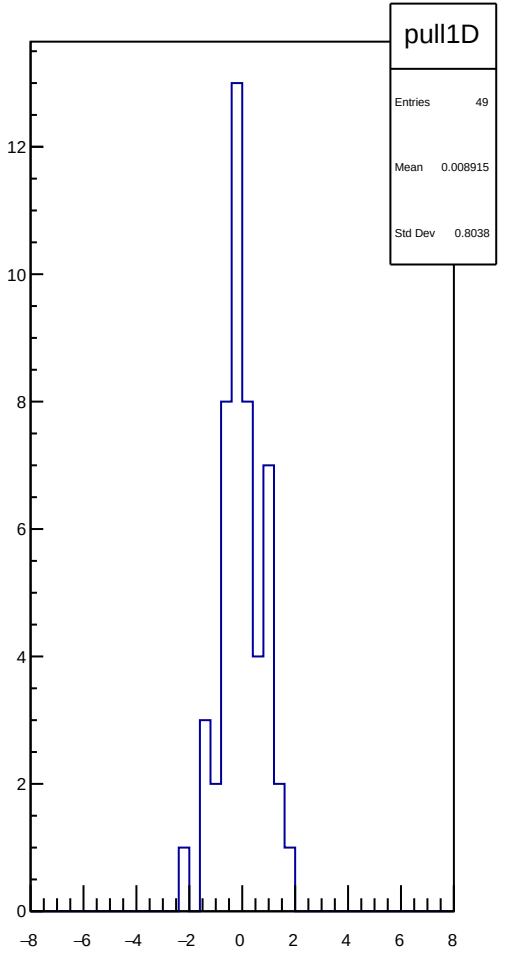

pull1D
Entries 49
Mean 0.01501
Std Dev 0.8144

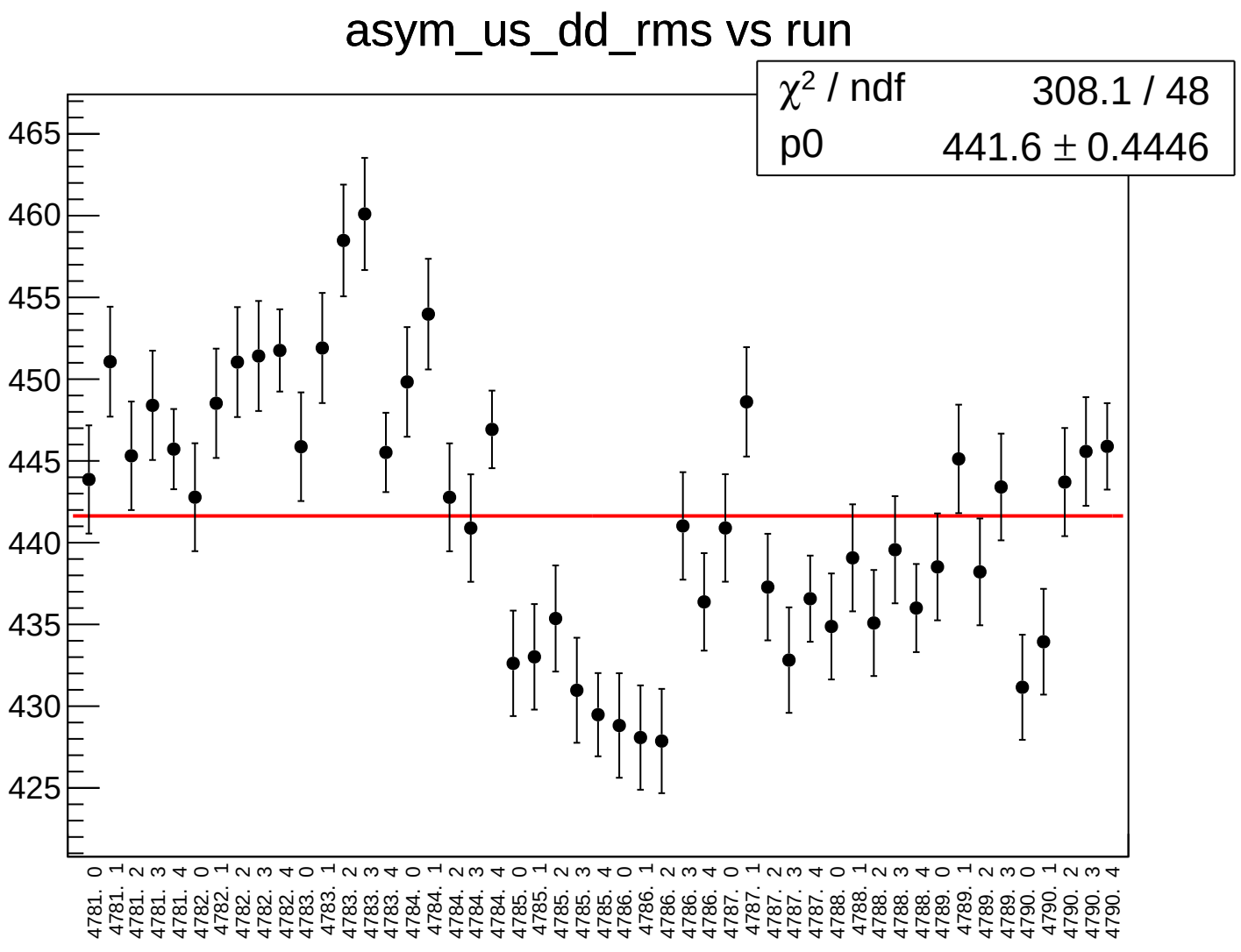

reg_asym_us_dd_rms vs run
χ^2 / ndf 62.4 / 48
p0 92.26 ± 0.09287
95
94
93
92
91
90
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

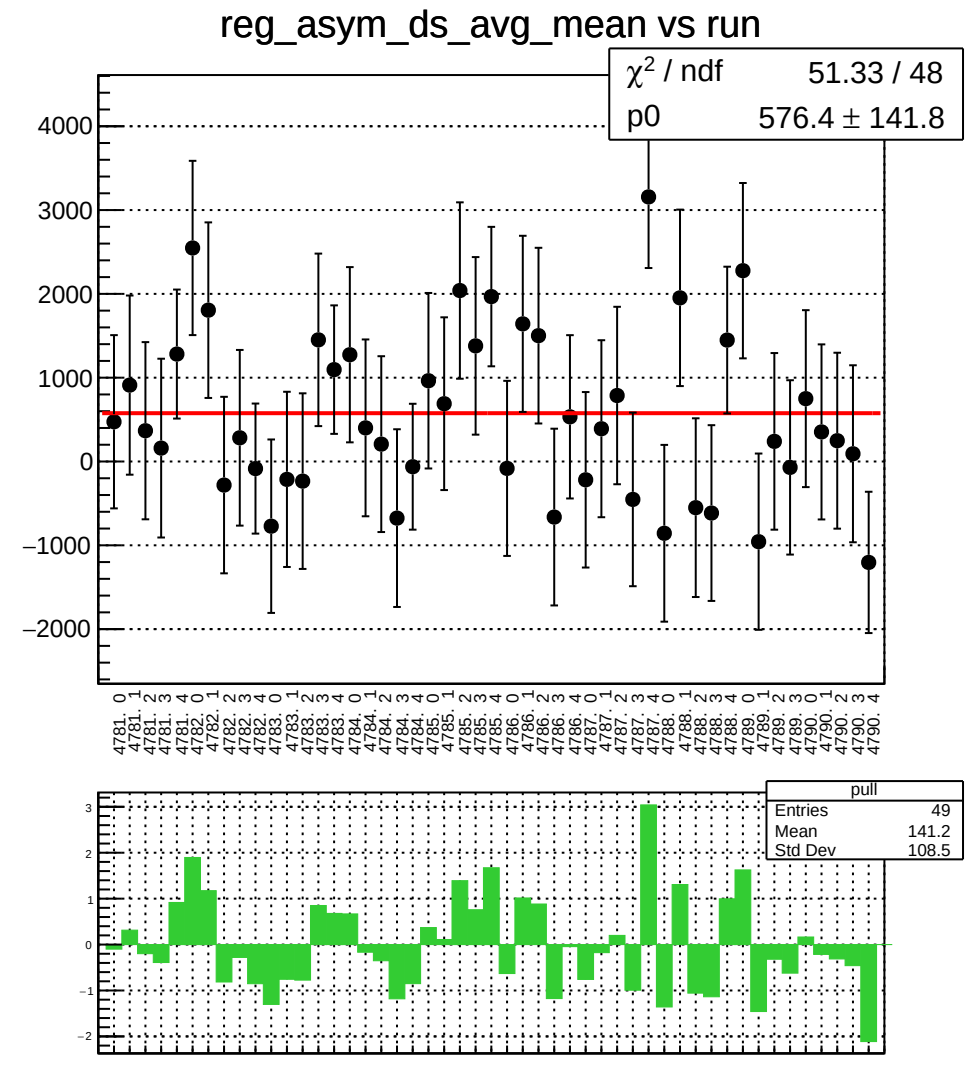

asym_us_dd_correction_mean vs run
χ² / ndf 32.43 / 48
p0 −2784 ± 614.9
10000
5000
0
−5000
−10000
−15000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −396.4
Std Dev 422.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean −0.005889
Std Dev 0.8136
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

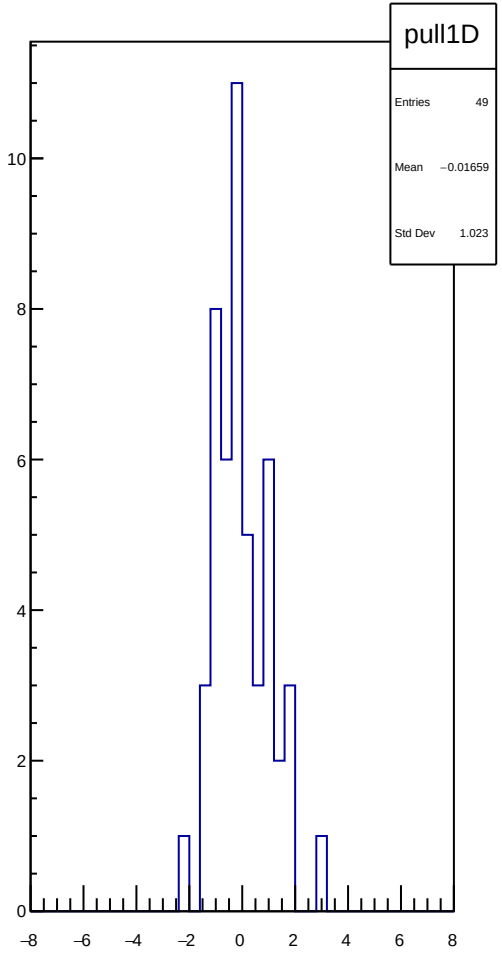

asym_us_dd_correction_rms vs run
χ² / ndf 339.2 / 48
p0 431.9 ± 0.4348
455
450
445
440
435
430
425
420
415
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

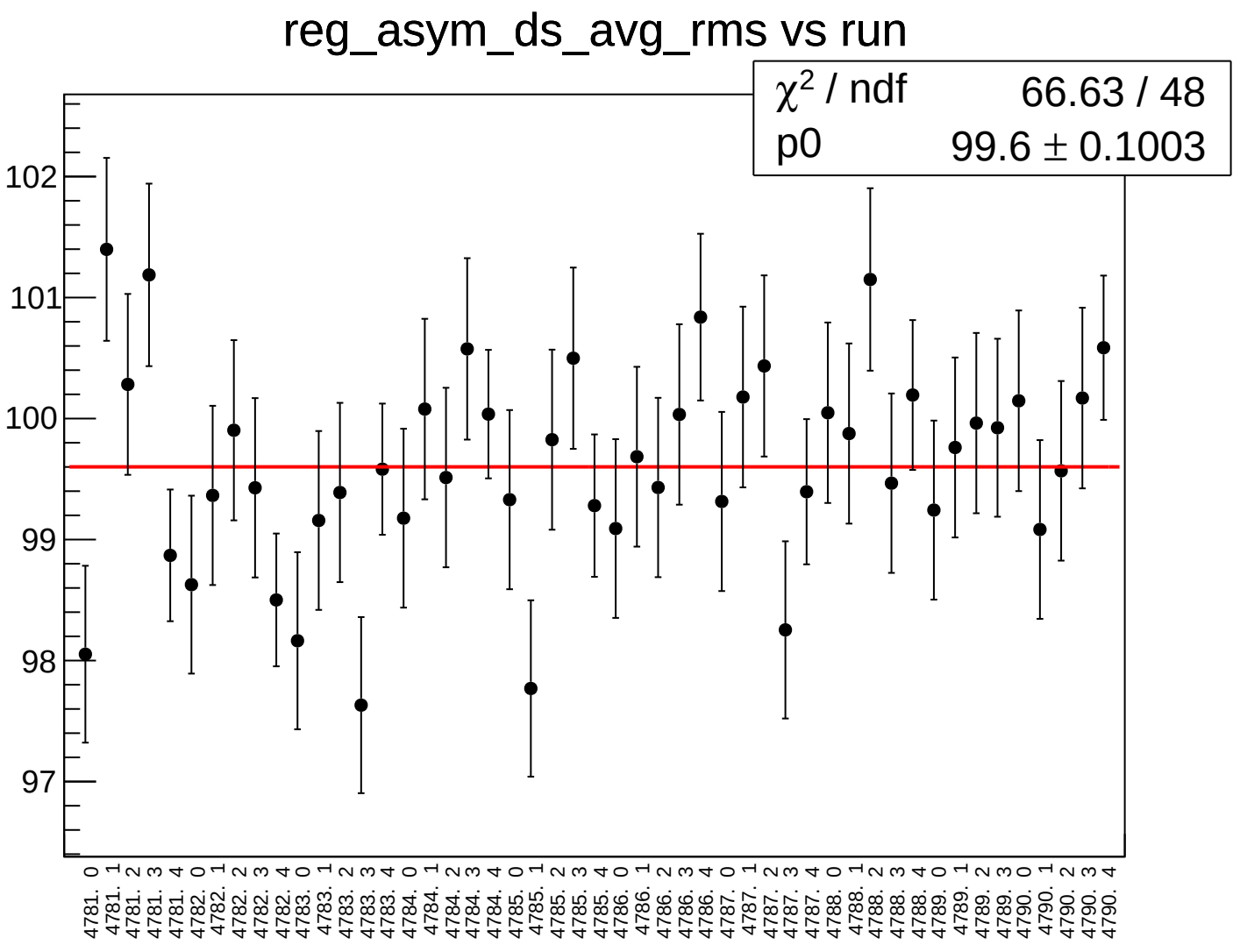

asym_us_dd_mean vs run
χ² / ndf 31.66 / 48
p0 2785 ± 628.8
15000
10000
5000
0
−5000
−10000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −211.4
Std Dev 237.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 49
Mean 0.008915
Std Dev 0.8038
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_rms vs run
χ² / ndf 308.1 / 48
p0 441.6 ± 0.4446
465
460
455
450
445
440
435
430
425
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


reg_asym_ds_avg_mean vs run
χ² / ndf 51.33 / 48
p0 576.4 ± 141.8
4000
3000
2000
1000
0
−1000
−2000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 141.2
Std Dev 108.5
3
2
1
0
−1
−2


pull1D
Entries 49
Mean −0.01659
Std Dev 1.023
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_ds_avg_rms vs run
χ^2 / ndf 66.63 / 48
p0 99.6 ± 0.1003
102
101
100
99
98
97
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
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4785. 3
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4786. 0
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4786. 2
4786. 3
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4788. 4
4789. 0
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4789. 2
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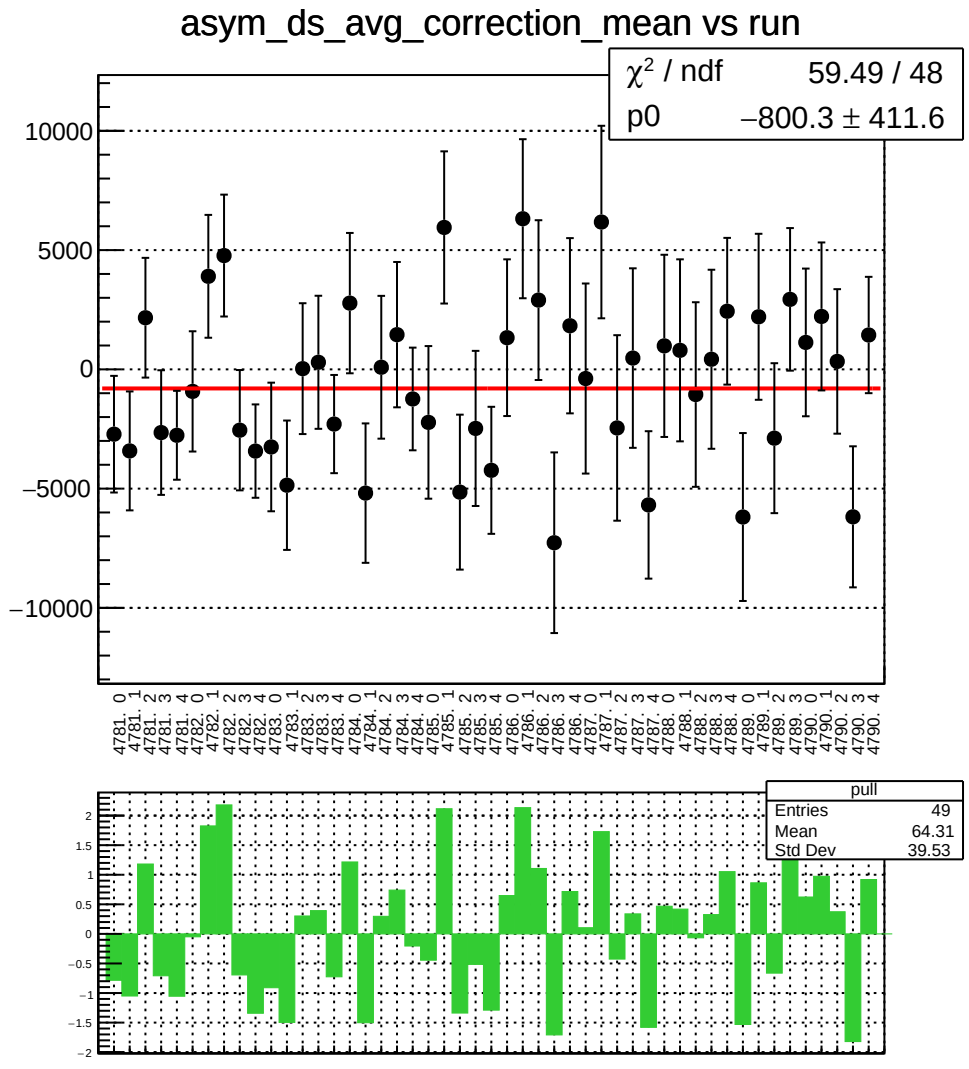
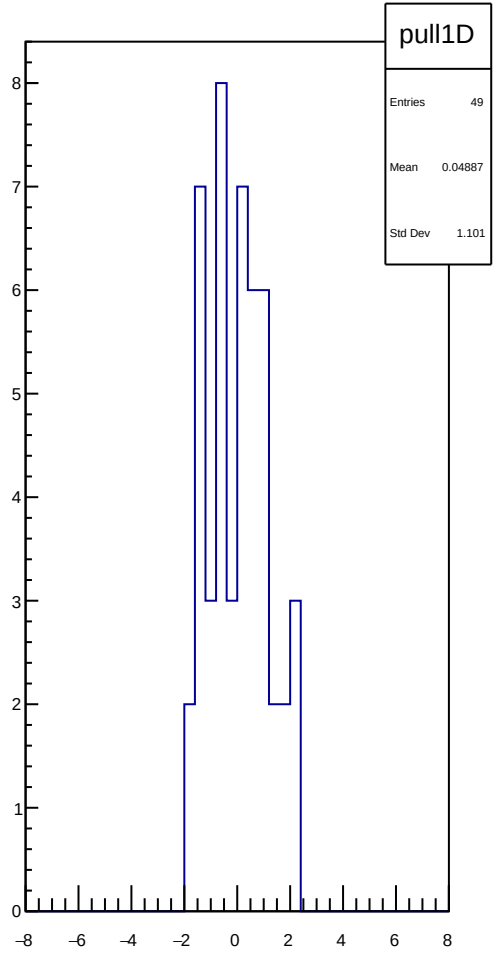
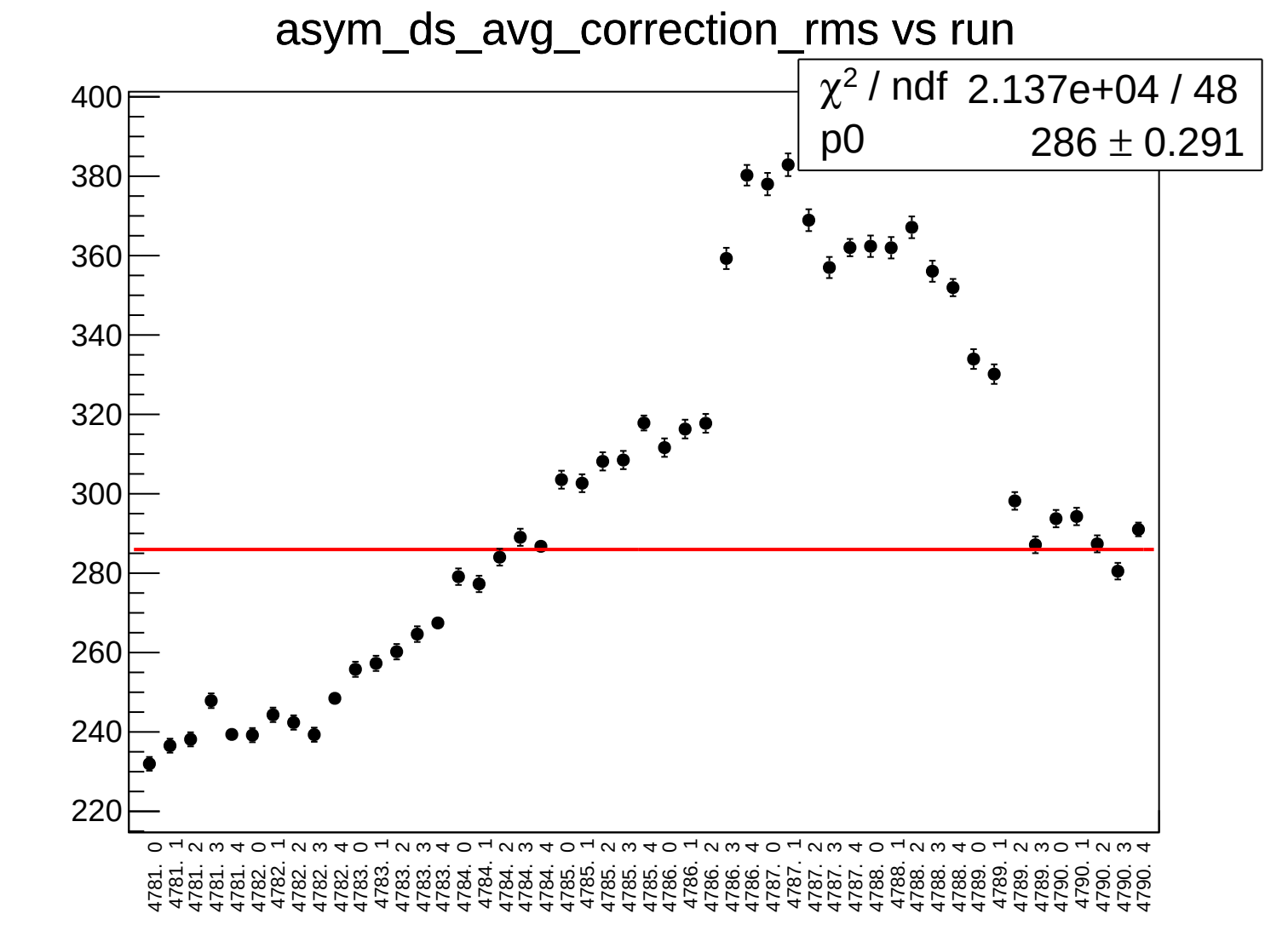
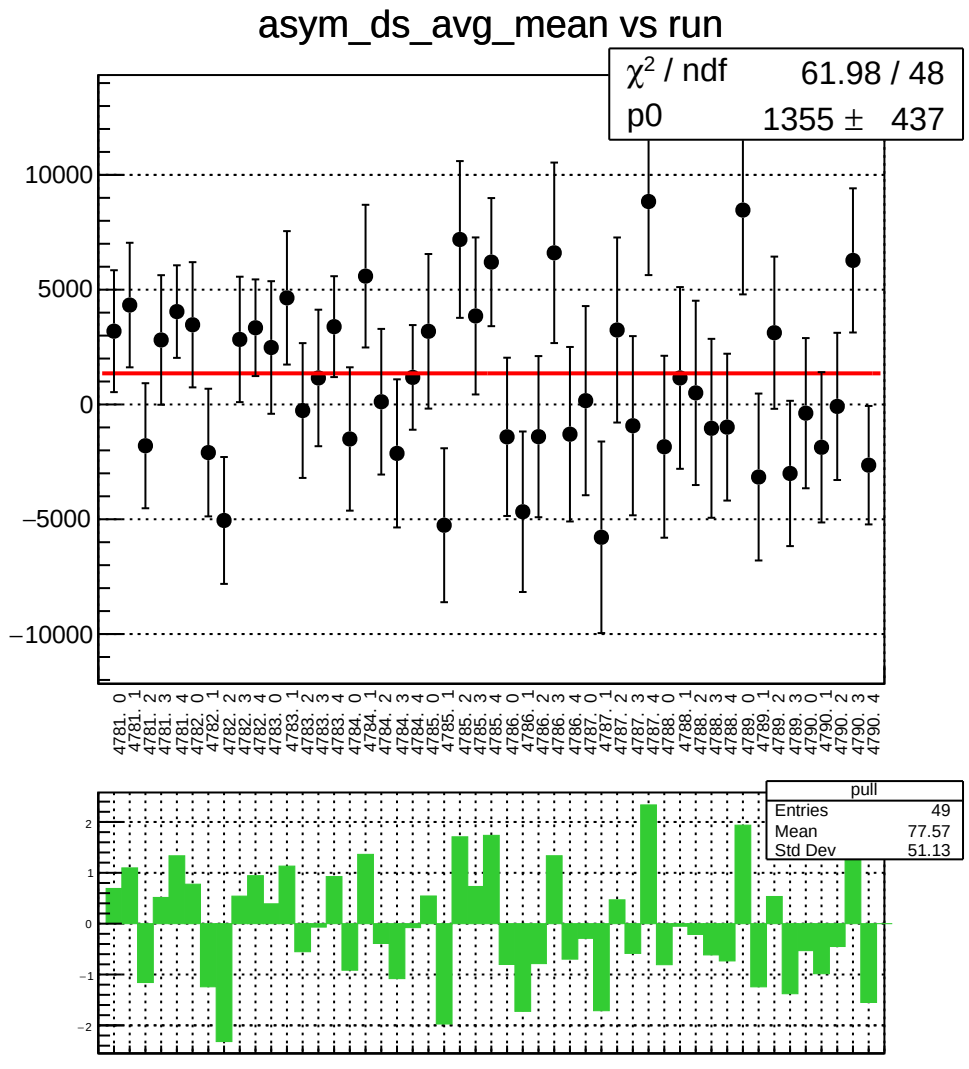
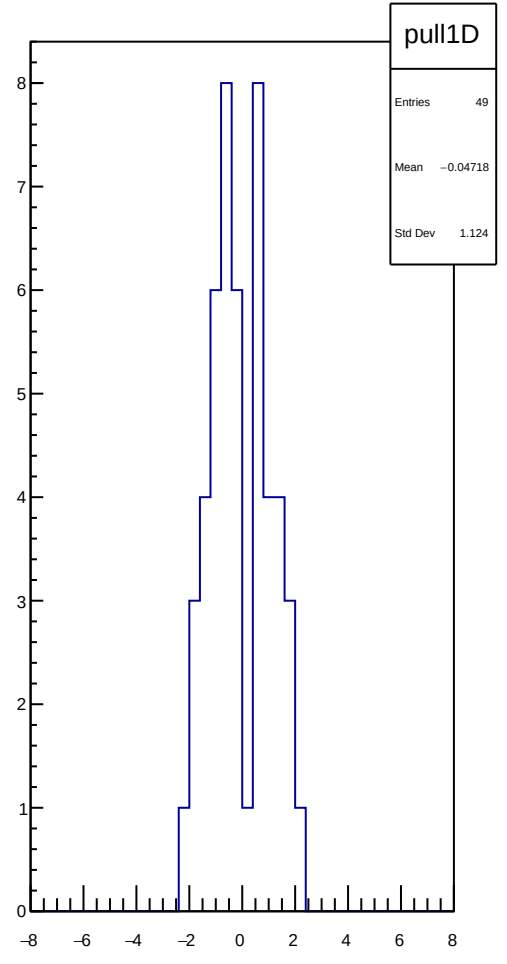
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

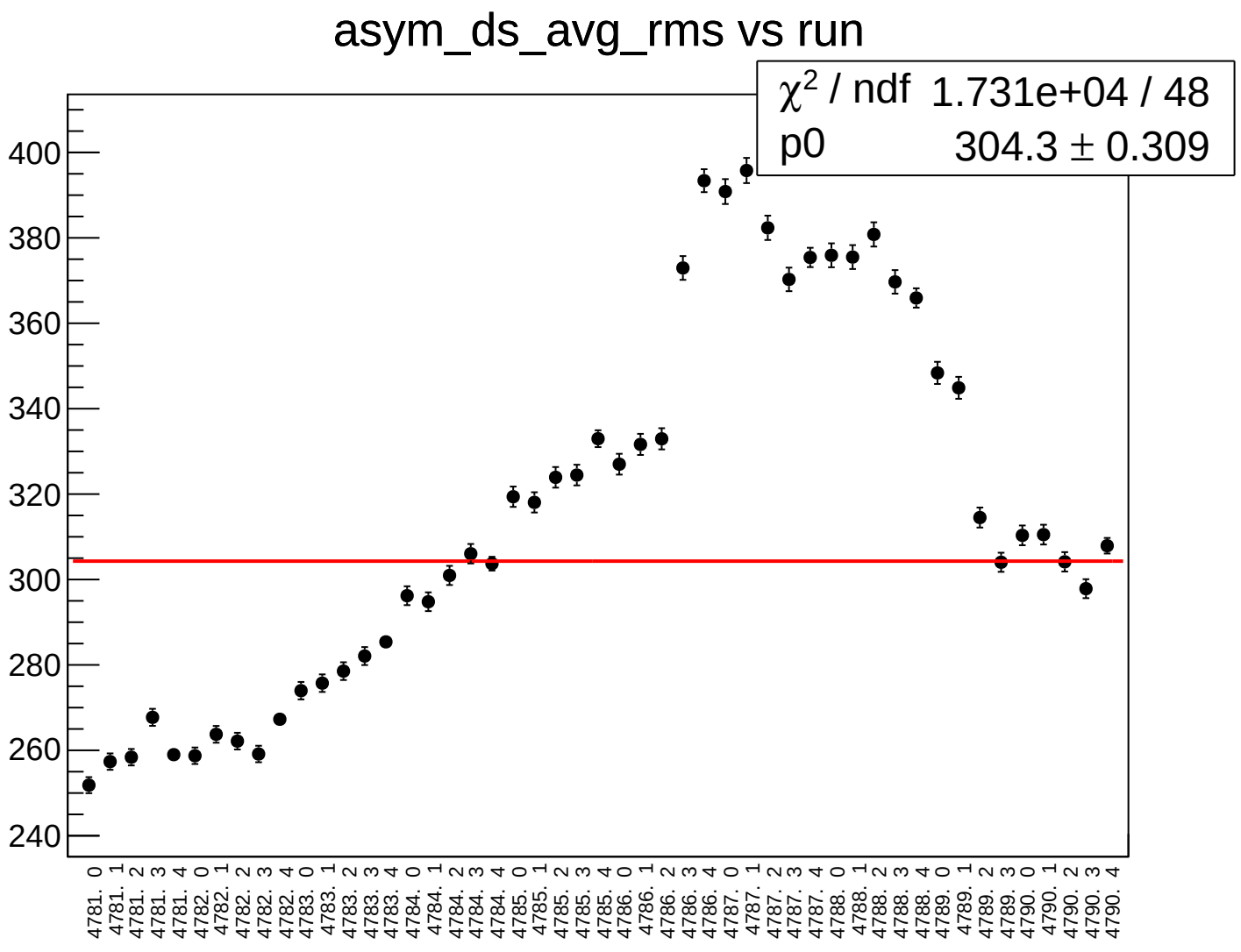

asym_ds_avg_correction_mean vs run
χ² / ndf 59.49 / 48
p0 −800.3 ± 411.6
10000
5000
0
−5000
−10000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 64.31
Std Dev 39.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

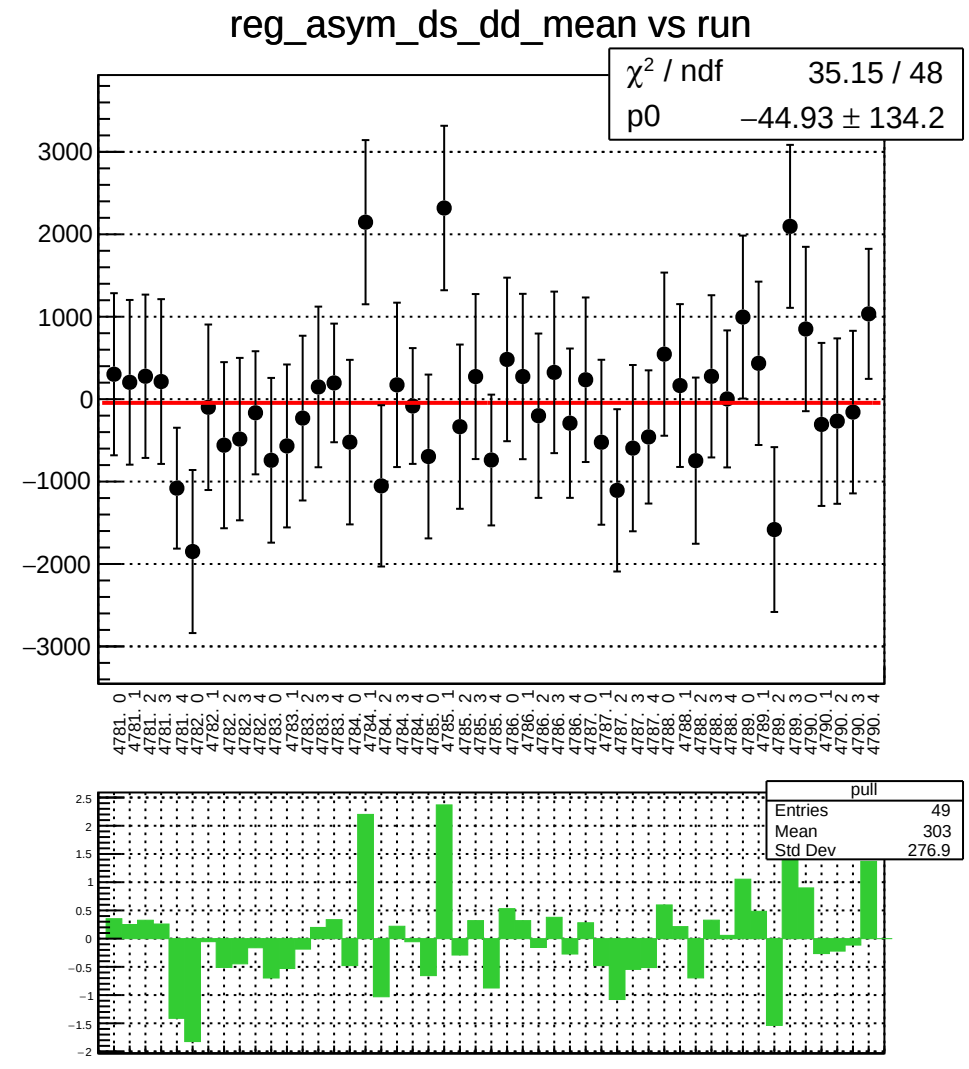

pull1D
Entries 49
Mean 0.04887
Std Dev 1.101
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

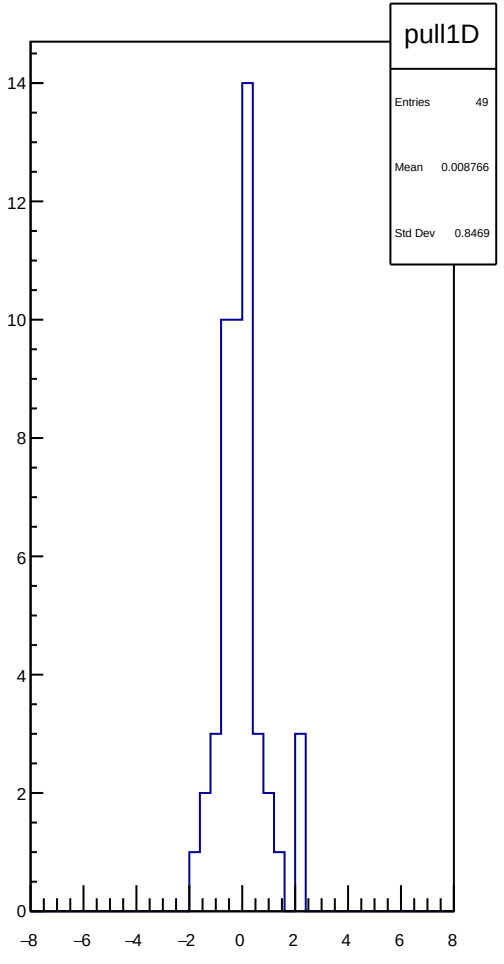

asym_ds_avg_correction_rms vs run
χ² / ndf 2.137e+04 / 48
p0 286 ± 0.291
400
380
360
340
320
300
280
260
240
220
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

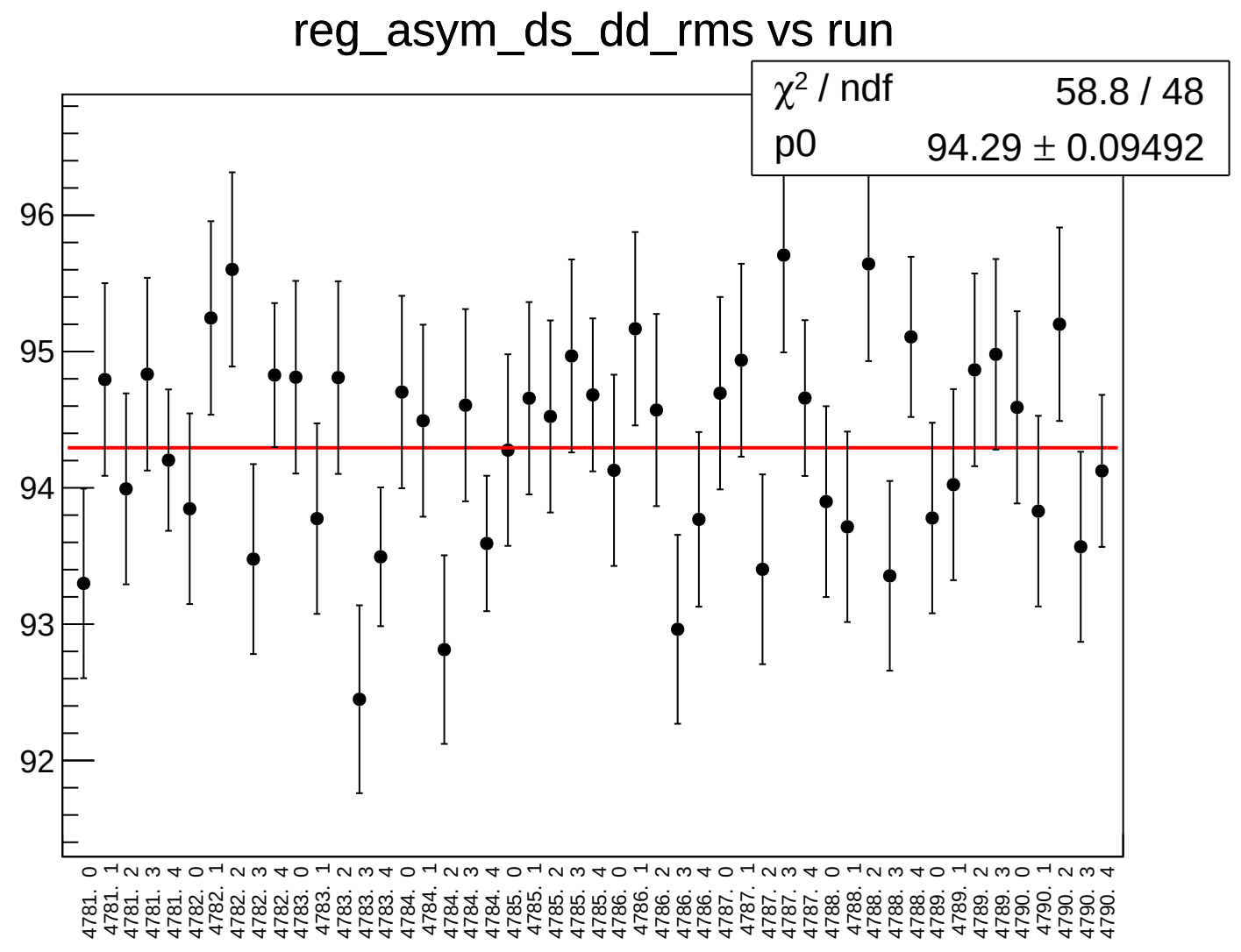

asym_ds_avg_mean vs run
χ² / ndf 61.98 / 48
p0 1355 ± 437
10000
5000
0
−5000
−10000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 77.57
Std Dev 51.13
2
1
0
−1
−2

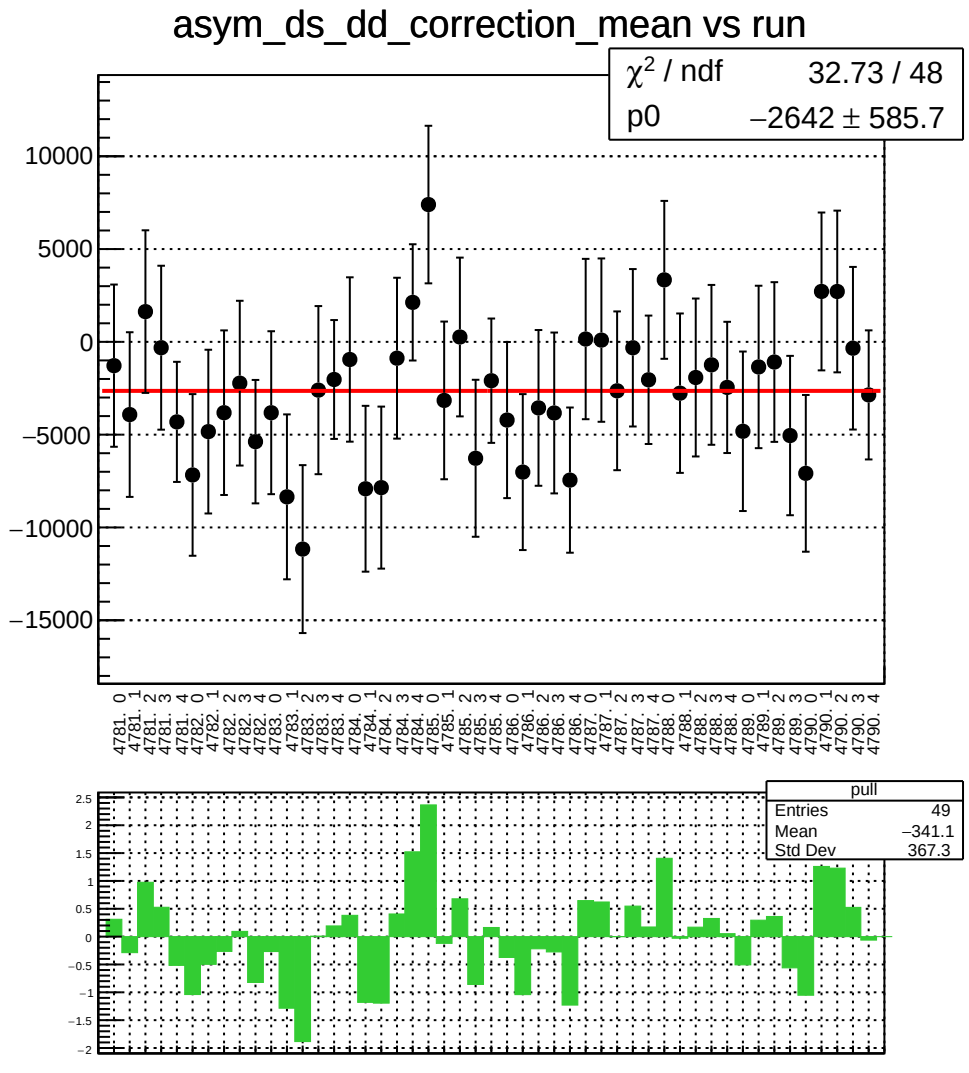

pull1D
Entries 49
Mean −0.04718
Std Dev 1.124
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

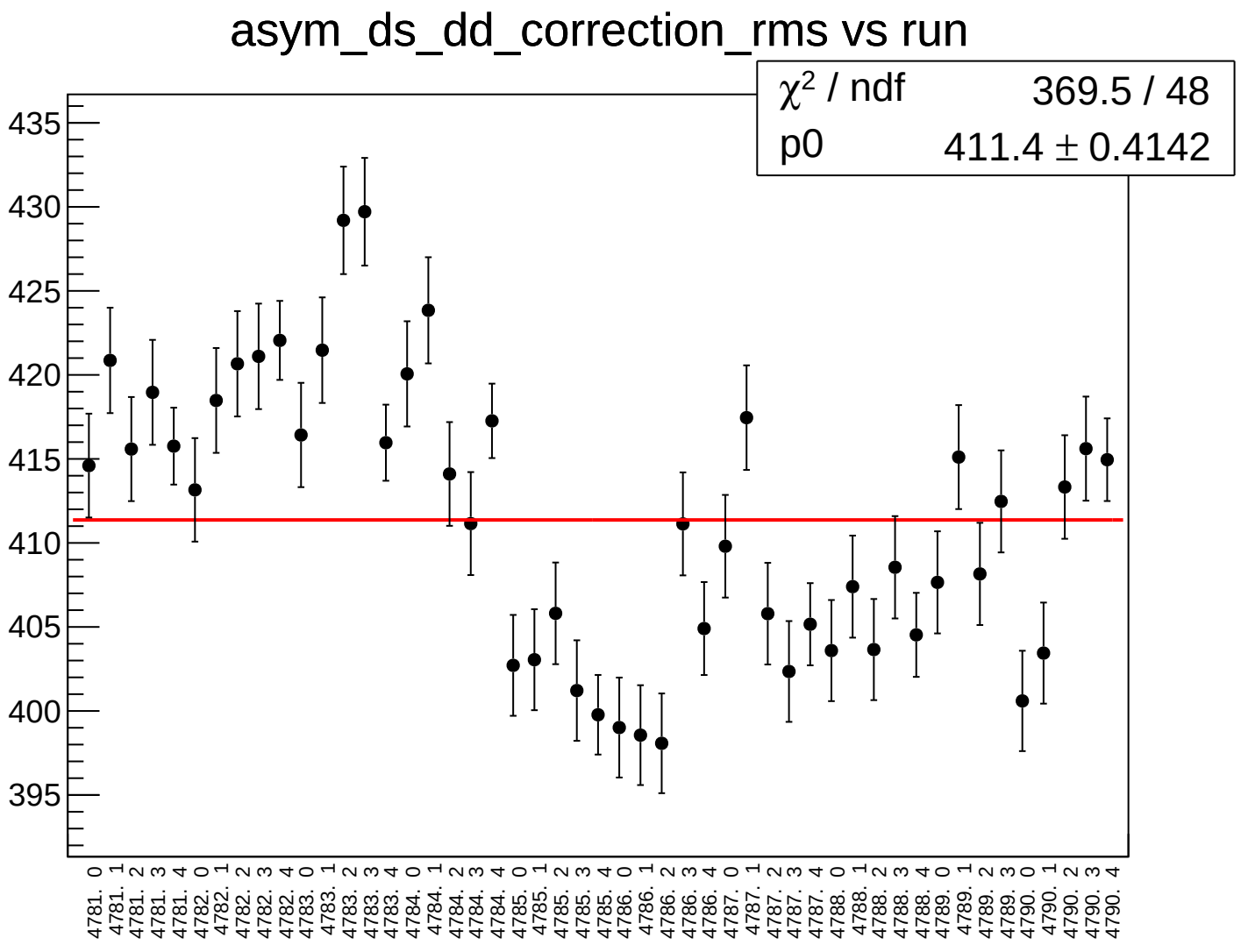

asym_ds_avg_rms vs run
χ² / ndf 1.731e+04 / 48
p0 304.3 ± 0.309
400
380
360
340
320
300
280
260
240
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

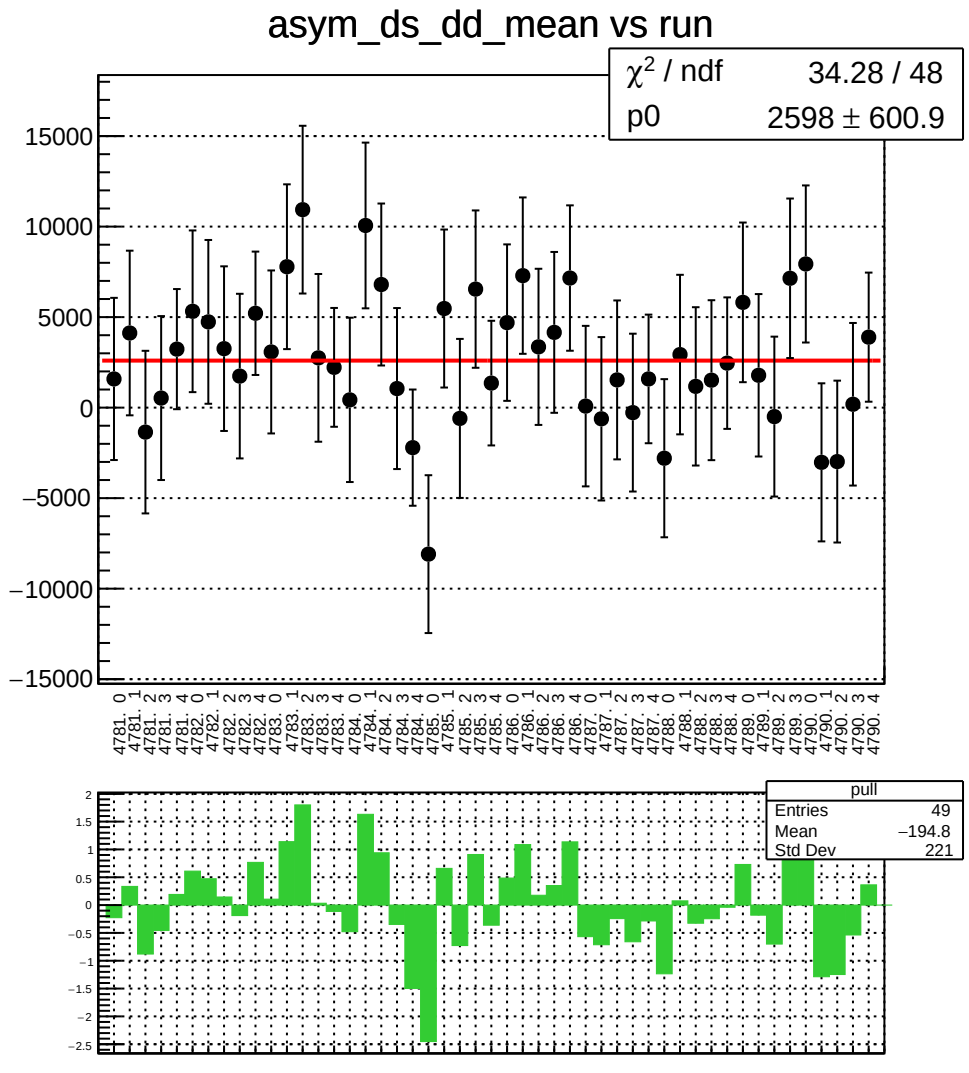

reg_asym_ds_dd_mean vs run
χ² / ndf 35.15 / 48
p0 −44.93 ± 134.2
pull
Entries 49
Mean 303
Std Dev 276.9

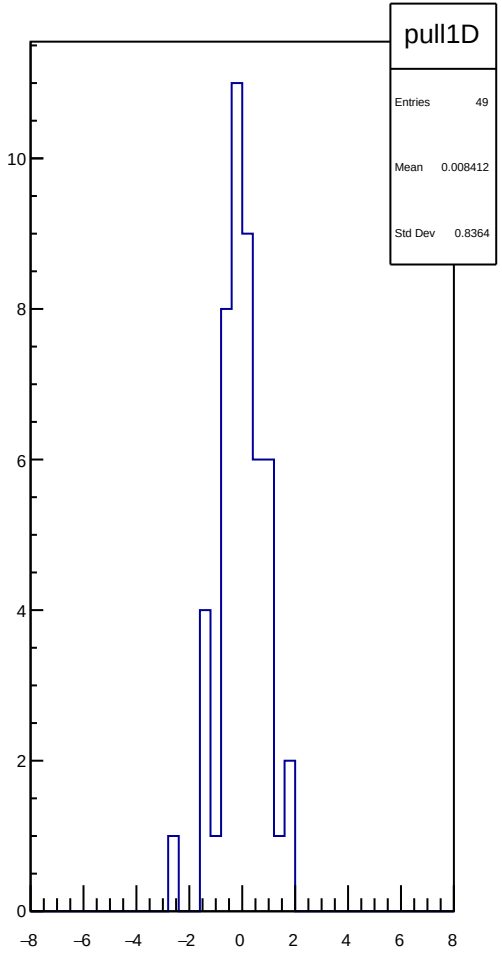

pull1D
Entries 49
Mean 0.008766
Std Dev 0.8469

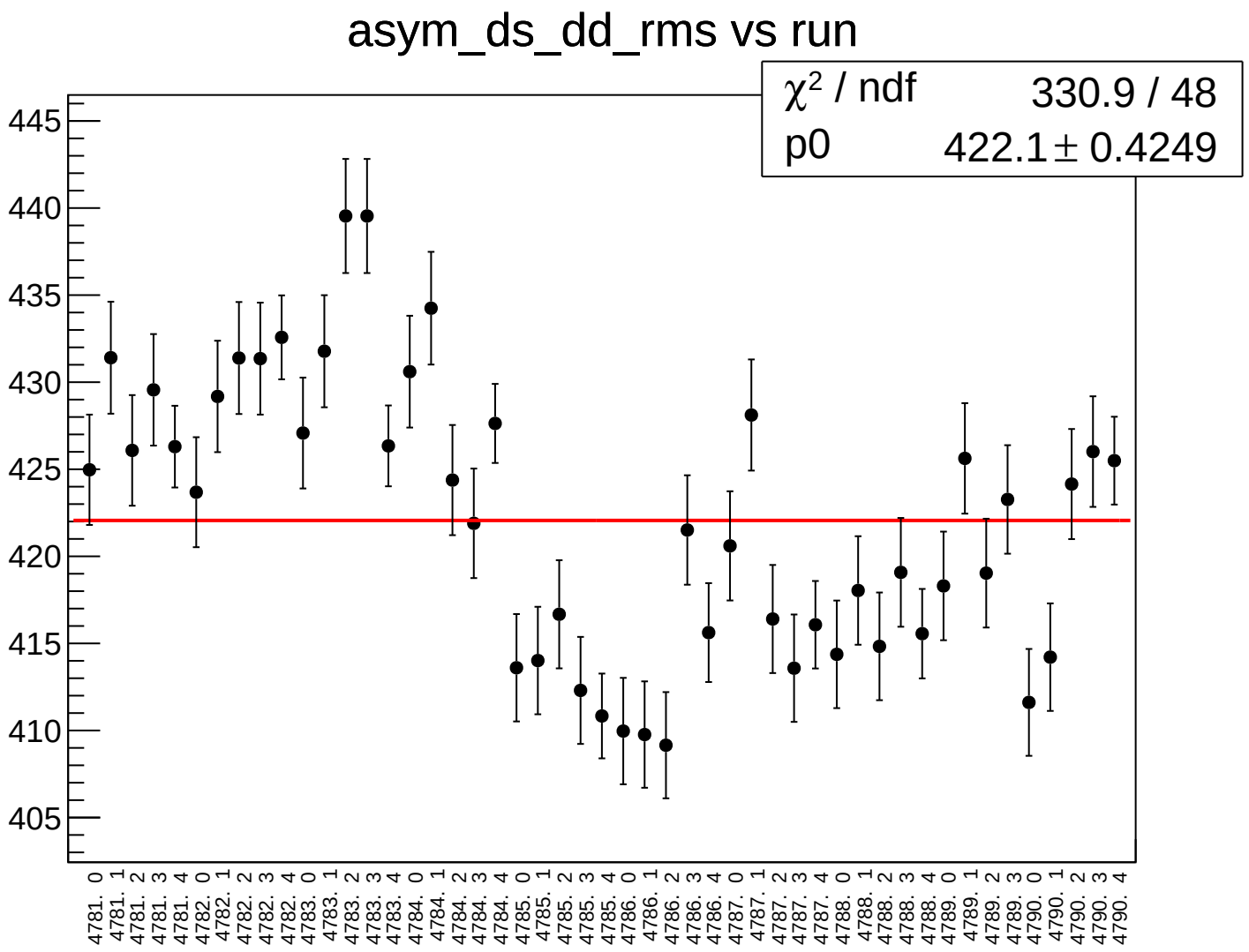

reg_asym_ds_dd_rms vs run
χ^2 / ndf 58.8 / 48
p0 94.29 ± 0.09492
96
95
94
93
92
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

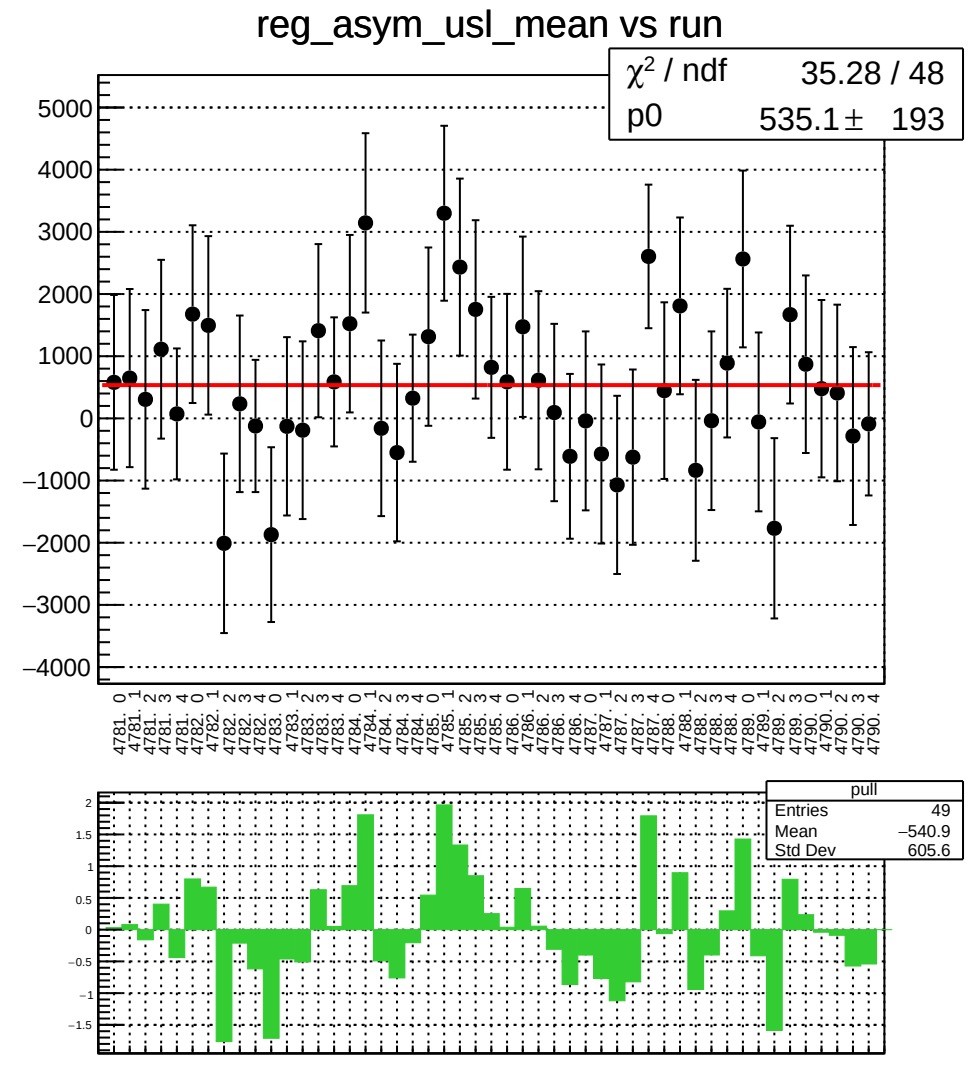

asym_ds_dd_correction_mean vs run
χ² / ndf 32.73 / 48
p0 −2642 ± 585.7
10000
5000
0
−5000
−10000
−15000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −341.1
Std Dev 367.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean −0.006686
Std Dev 0.8173
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

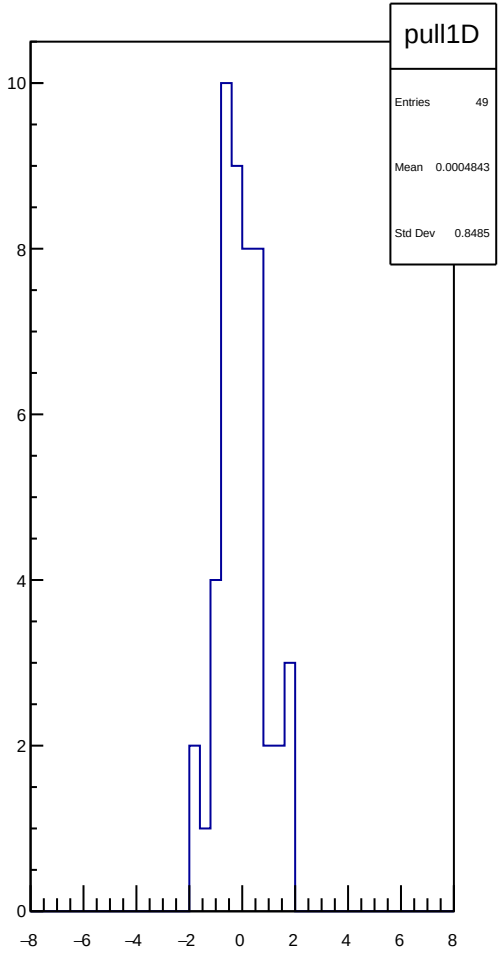

asym_ds_dd_correction_rms vs run
χ² / ndf 369.5 / 48
p0 411.4 ± 0.4142
435
430
425
420
415
410
405
400
395
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

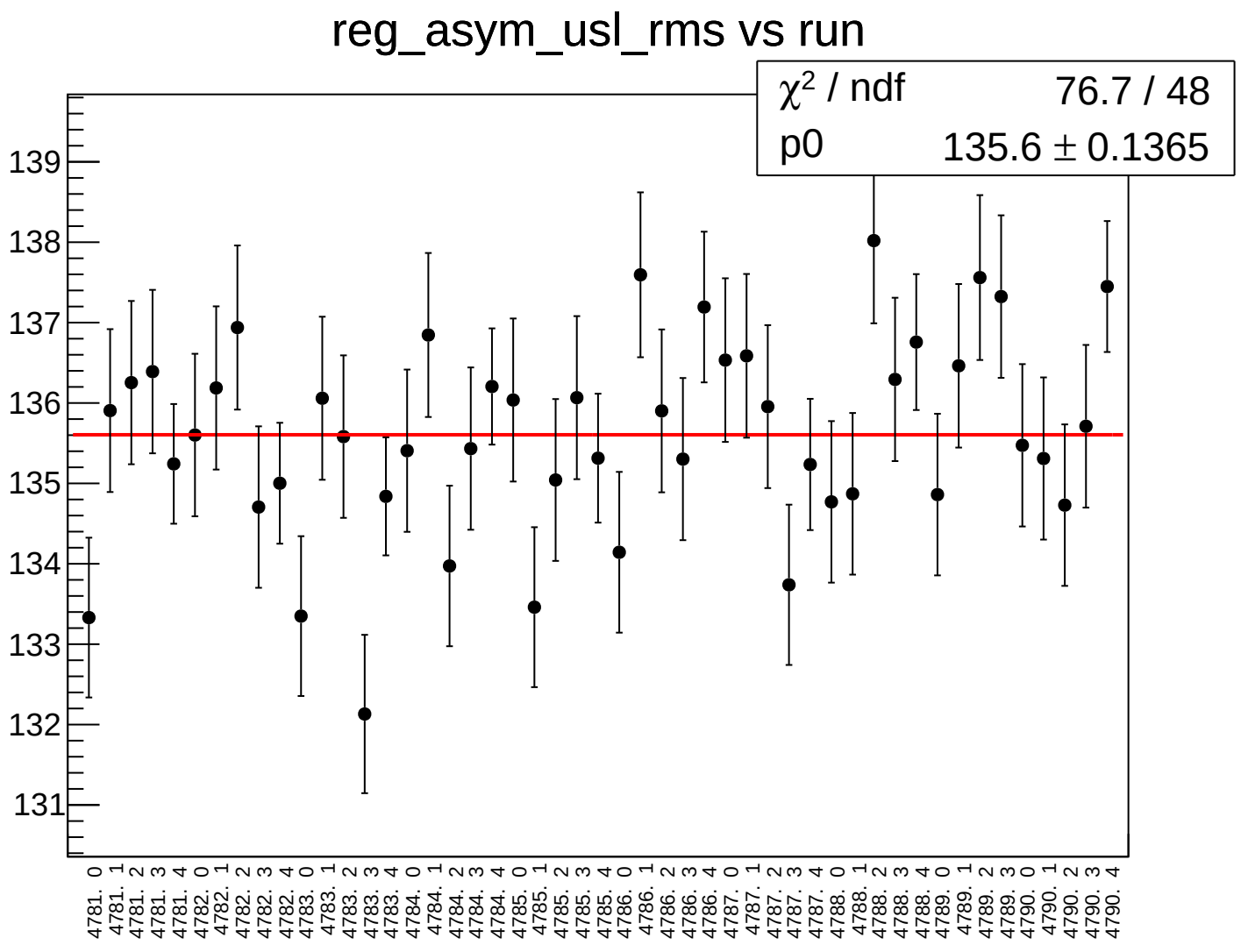

asym_ds_dd_mean vs run
χ² / ndf 34.28 / 48
p0 2598 ± 600.9
15000
10000
5000
0
−5000
−10000
−15000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −194.8
Std Dev 221
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

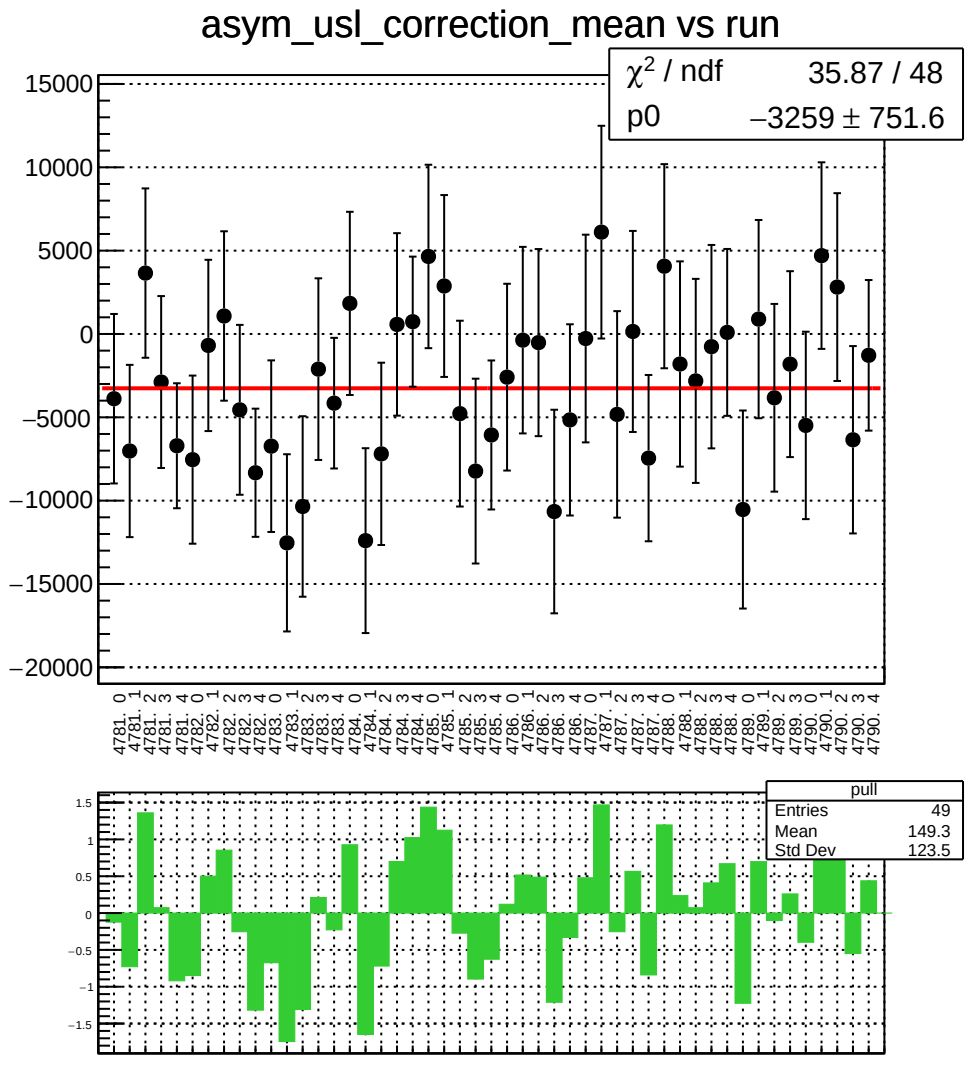

pull1D
Entries 49
Mean 0.008412
Std Dev 0.8364
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_ds_dd_rms vs run
χ² / ndf 330.9 / 48
p0 422.1 ± 0.4249
445
440
435
430
425
420
415
410
405
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


reg_asym_usl_mean vs run
χ² / ndf 35.28 / 48
p0 535.1 ± 193
pull
Entries 49
Mean −540.9
Std Dev 605.6


pull1D
Entries 49
Mean 0.0004843
Std Dev 0.8485


reg_asym_usl_rms vs run
χ² / ndf 76.7 / 48
p0 135.6 ± 0.1365
139
138
137
136
135
134
133
132
131
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


asym_usl_correction_mean vs run
χ² / ndf 35.87 / 48
p0 −3259 ± 751.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
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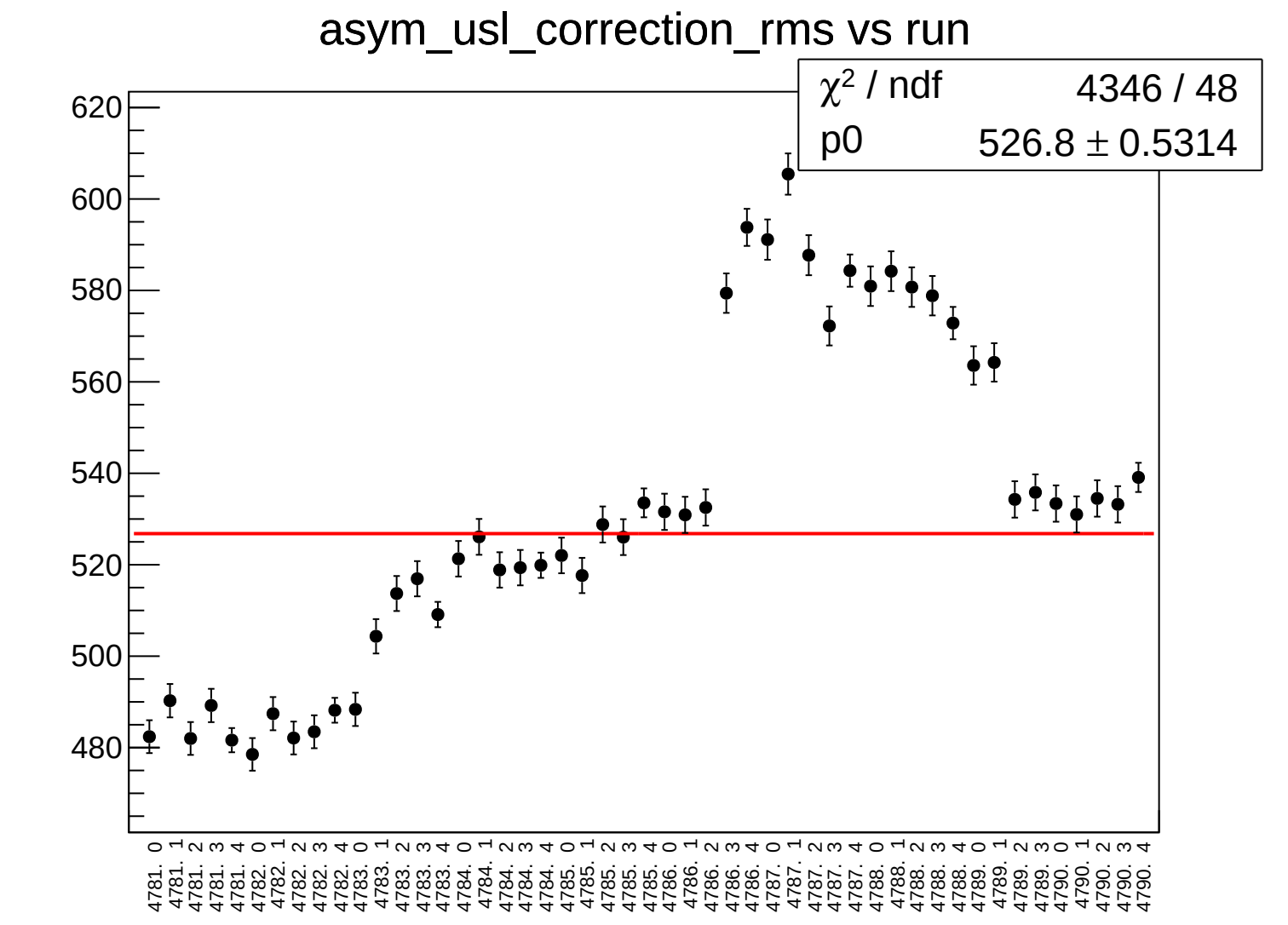
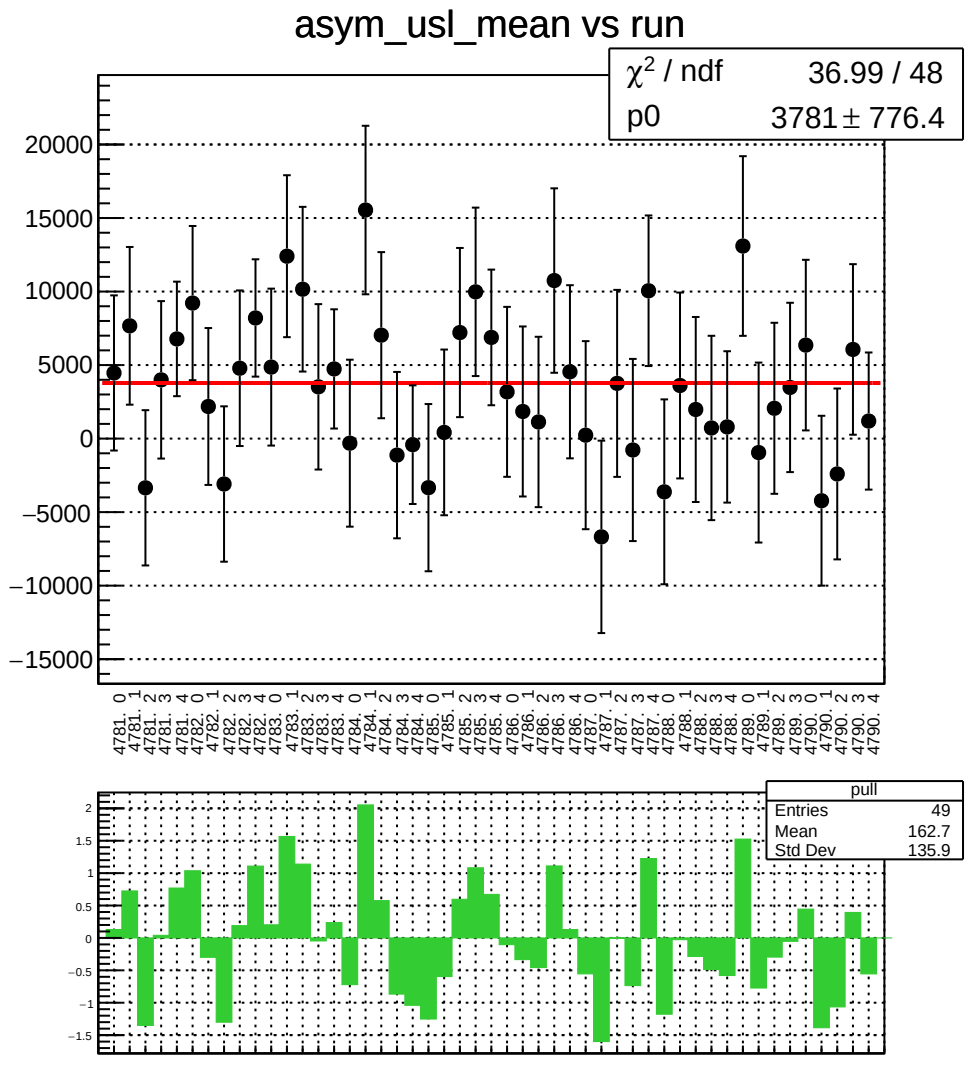
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 149.3
Std Dev 123.5
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 49
Mean 0.02278
Std Dev 0.8552
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_correction_rms vs run
χ² / ndf 4346 / 48
p0 526.8 ± 0.5314
620
600
580
560
540
520
500
480
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


asym_usl_mean vs run
χ² / ndf 36.99 / 48
p0 3781 ± 776.4
20000
15000
10000
5000
0
−5000
−10000
−15000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
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4783. 0
4783. 1
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4785. 2
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4786. 0
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4786. 2
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4786. 4
4787. 0
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4787. 3
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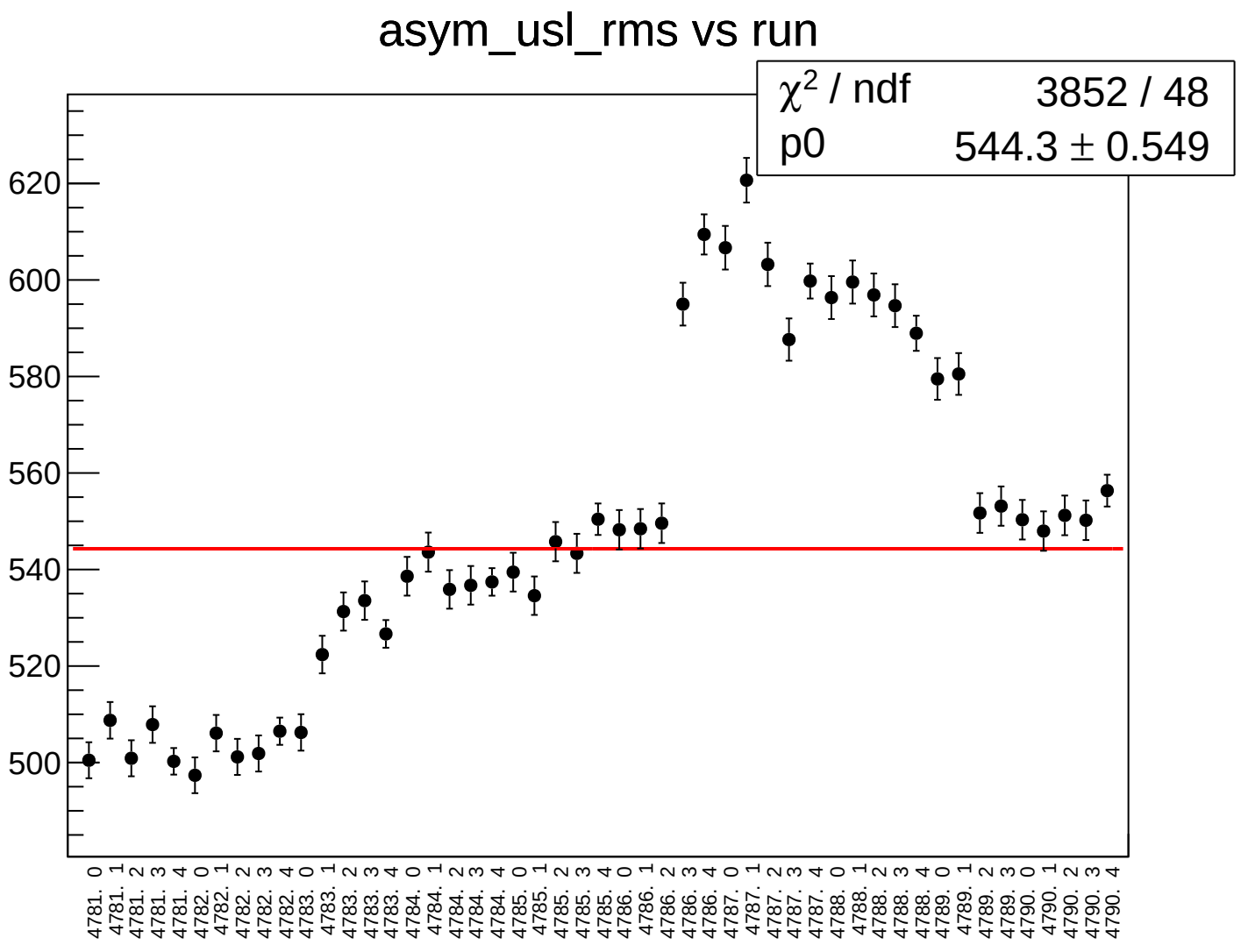
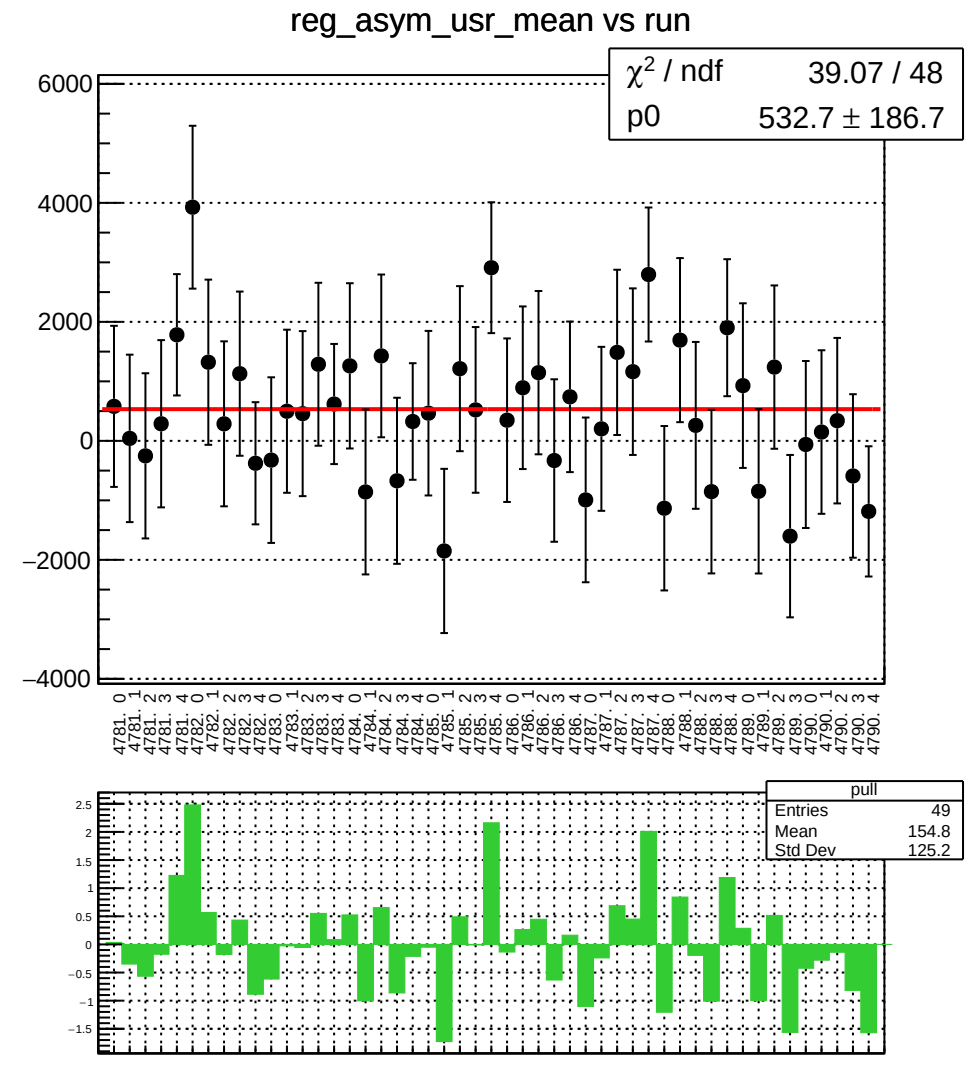
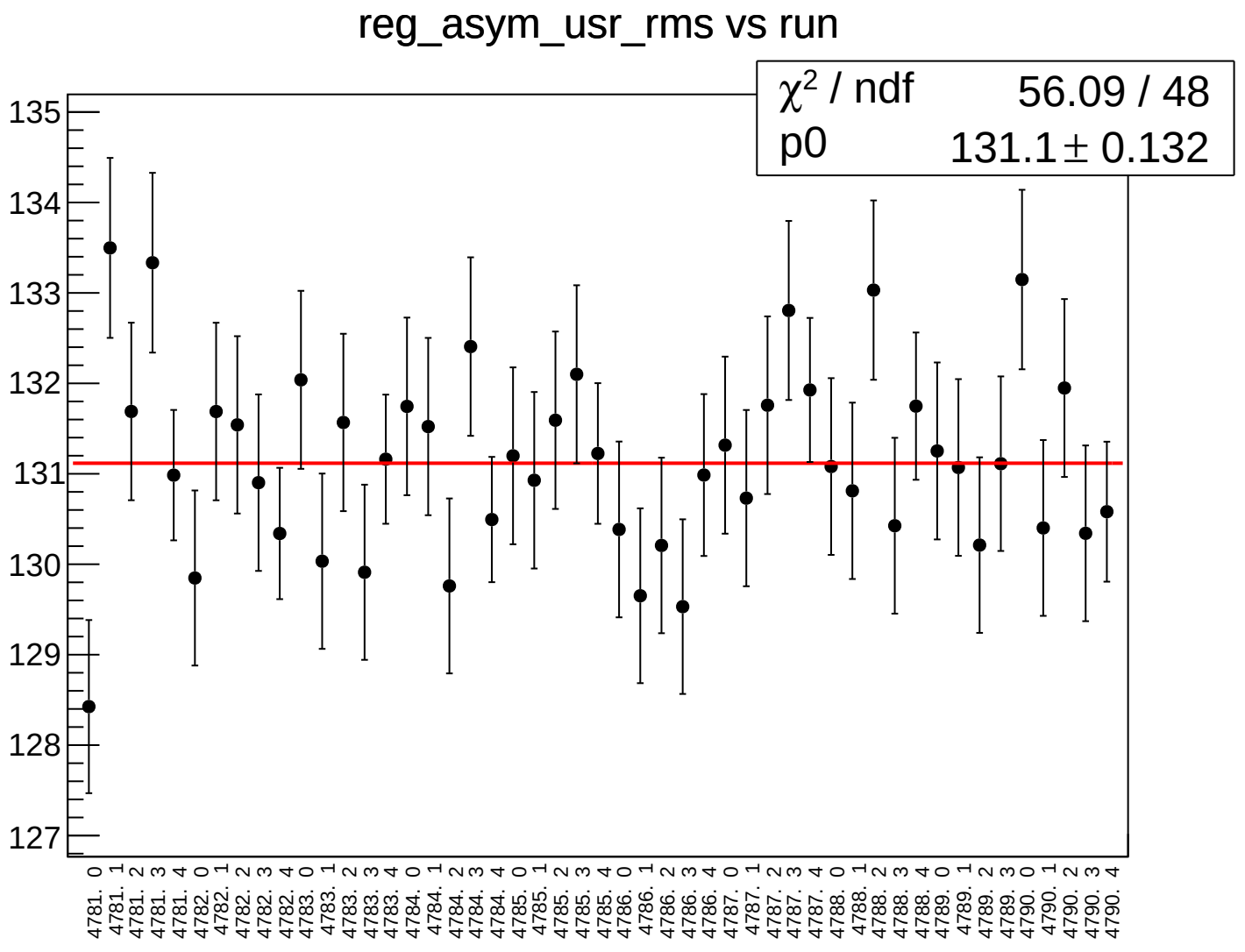
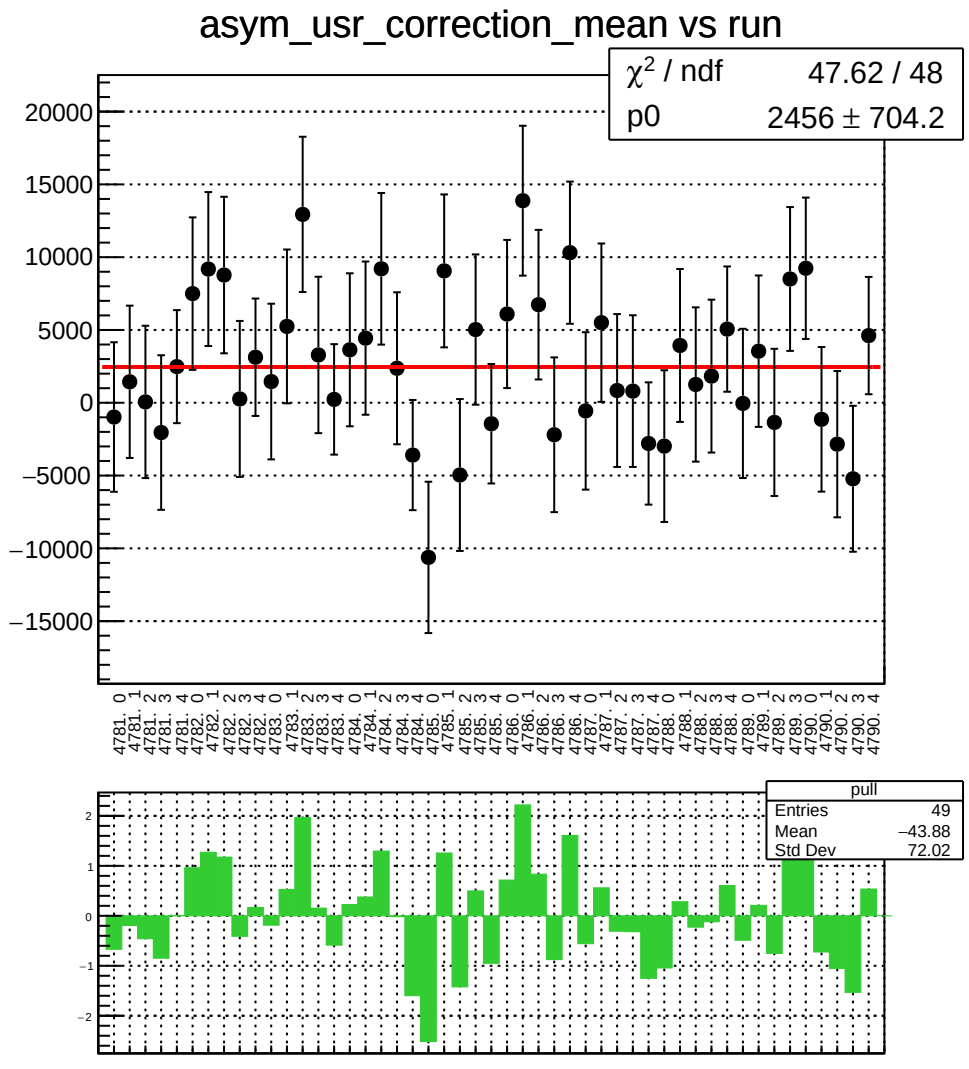
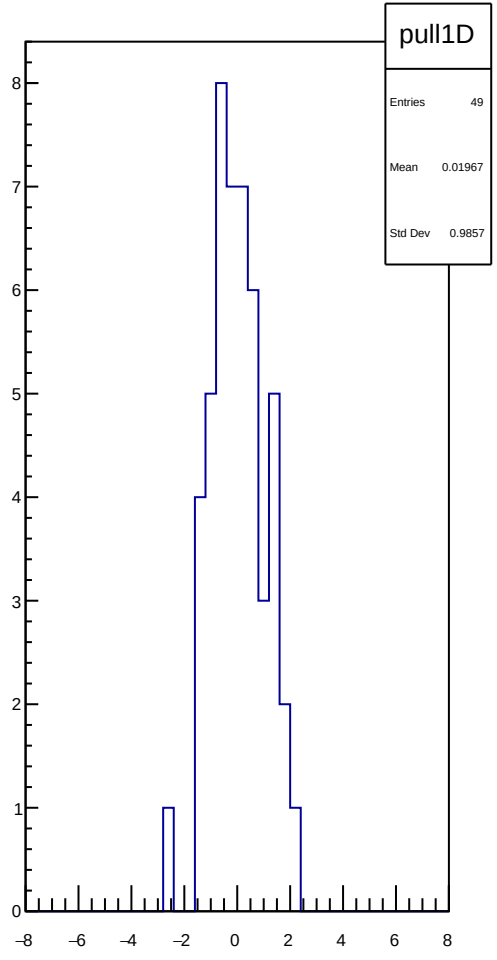
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 162.7
Std Dev 135.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 49
Mean −0.0203
Std Dev 0.8686
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

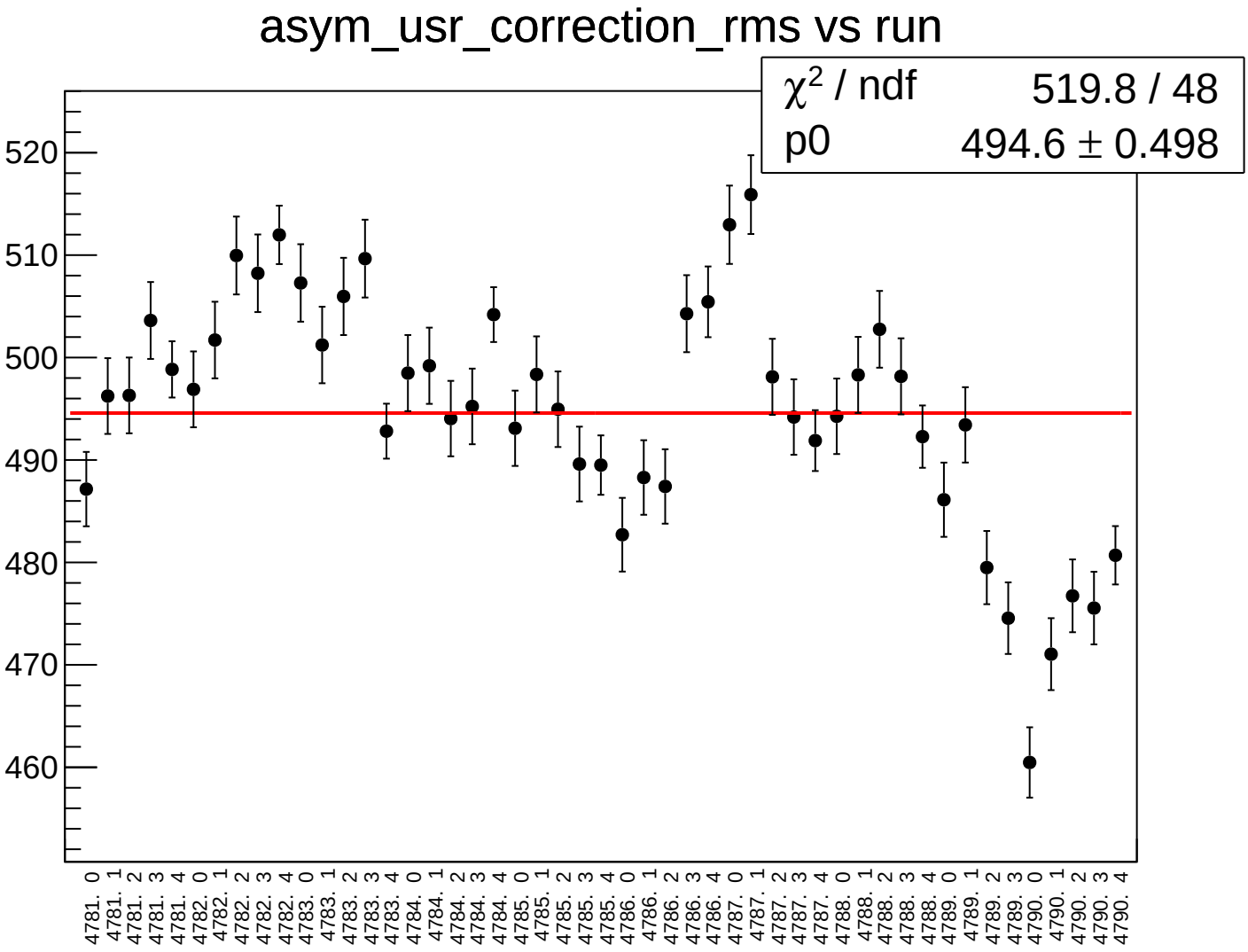

asym_usl_rms vs run
χ² / ndf 3852 / 48
p0 544.3 ± 0.549
620
600
580
560
540
520
500
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

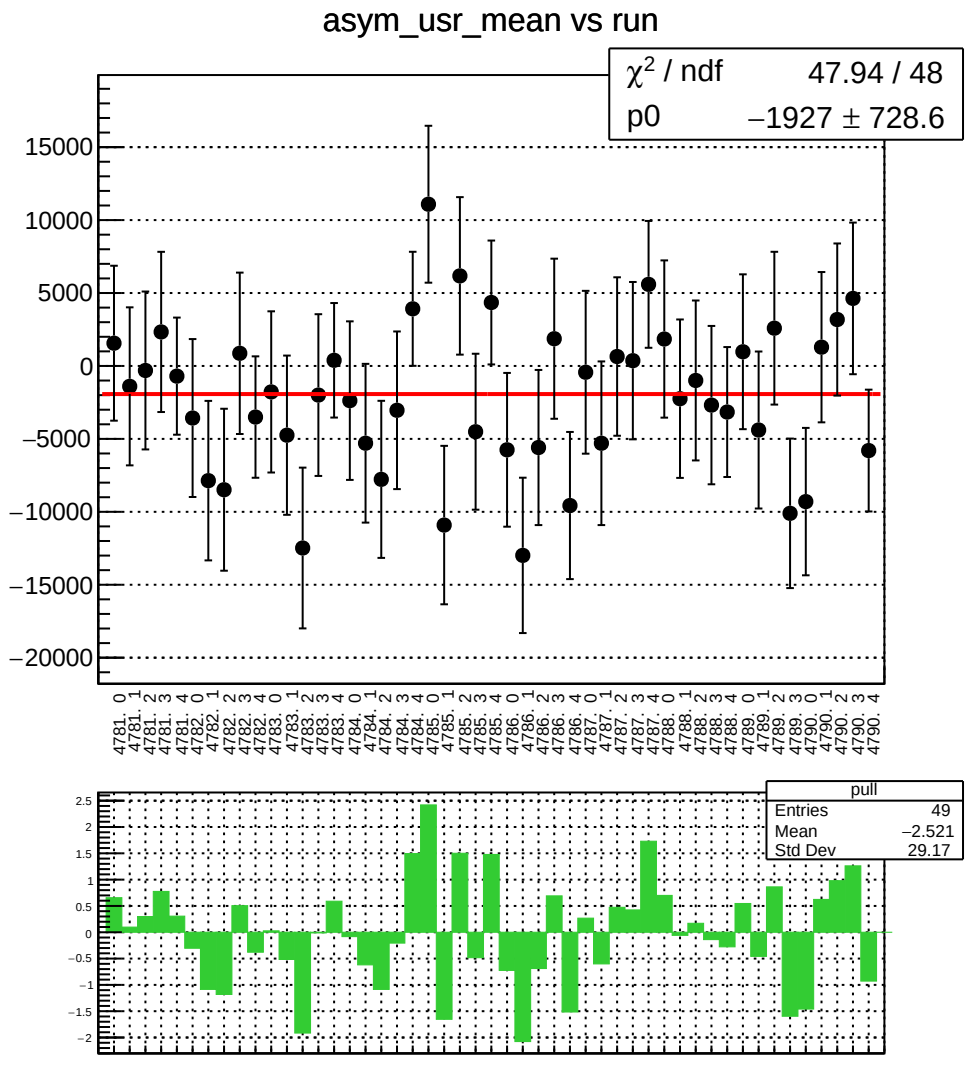

reg_asym_usr_mean vs run
χ² / ndf 39.07 / 48
p0 532.7 ± 186.7
6000
4000
2000
0
−2000
−4000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 154.8
Std Dev 125.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 49
Mean −0.01949
Std Dev 0.8927
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

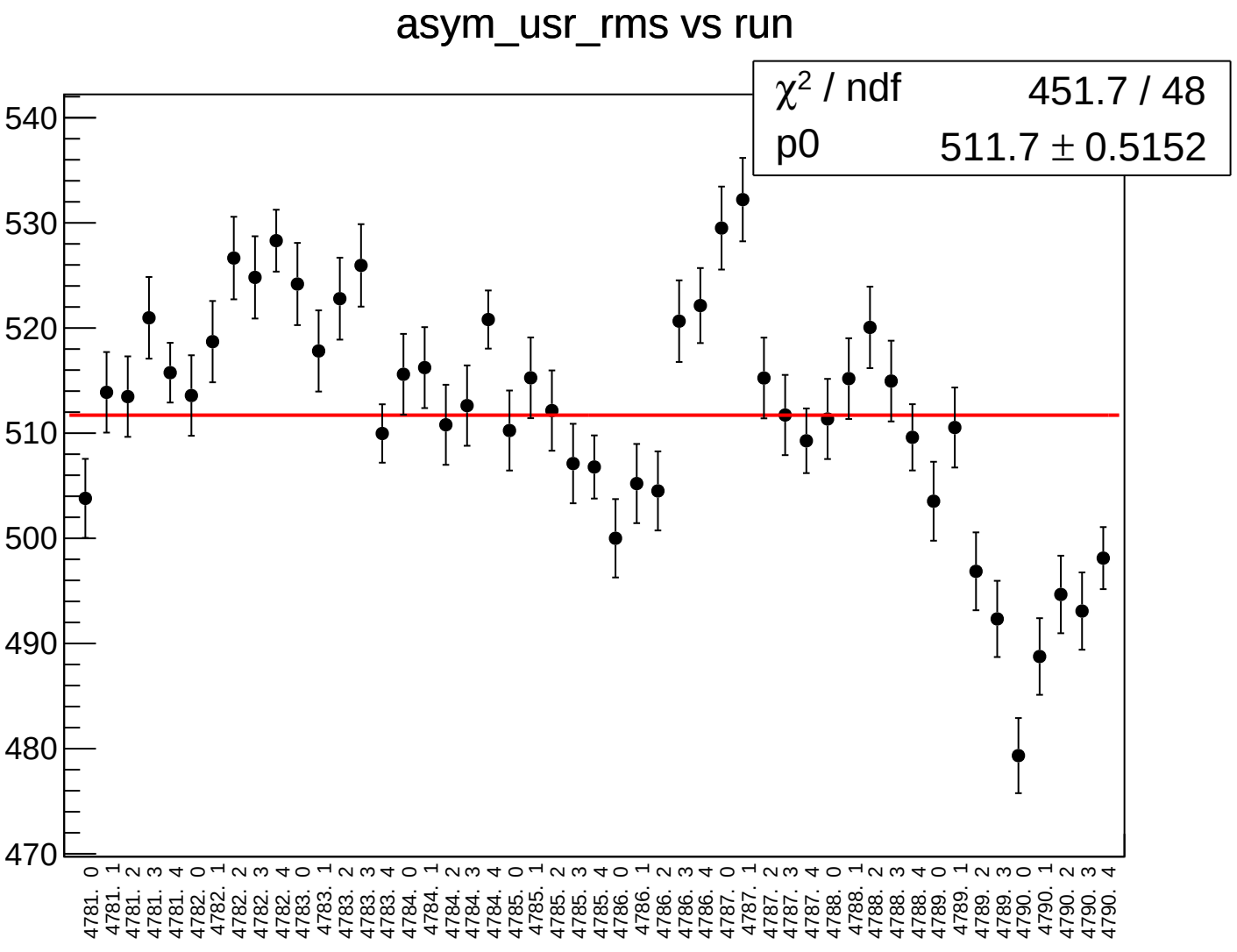

reg_asym_usr_rms vs run
χ² / ndf 56.09 / 48
p0 131.1 ± 0.132
135
134
133
132
131
130
129
128
127
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

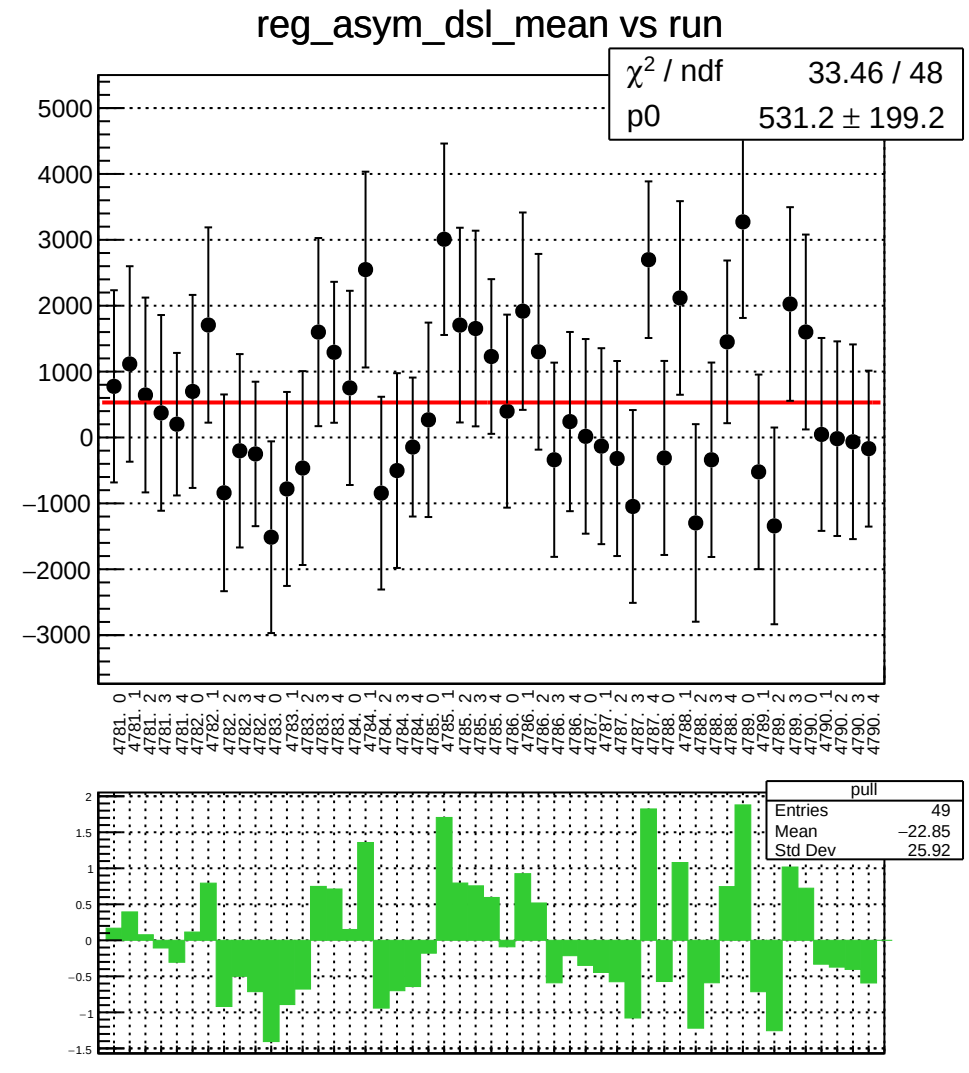

asym_usr_correction_mean vs run
χ² / ndf 47.62 / 48
p0 2456 ± 704.2
20000
15000
10000
5000
0
−5000
−10000
−15000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −43.88
Std Dev 72.02
2
1
0
−1
−2

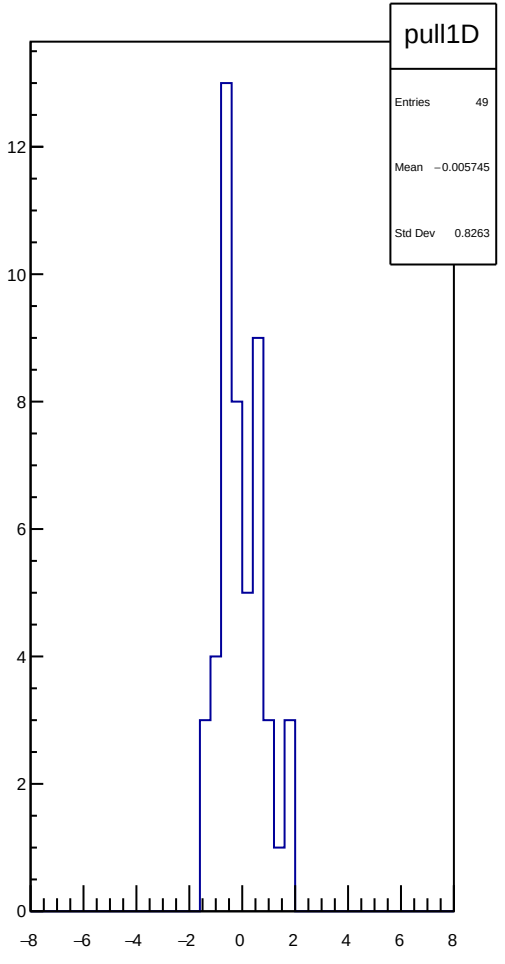

pull1D
Entries 49
Mean 0.01967
Std Dev 0.9857
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

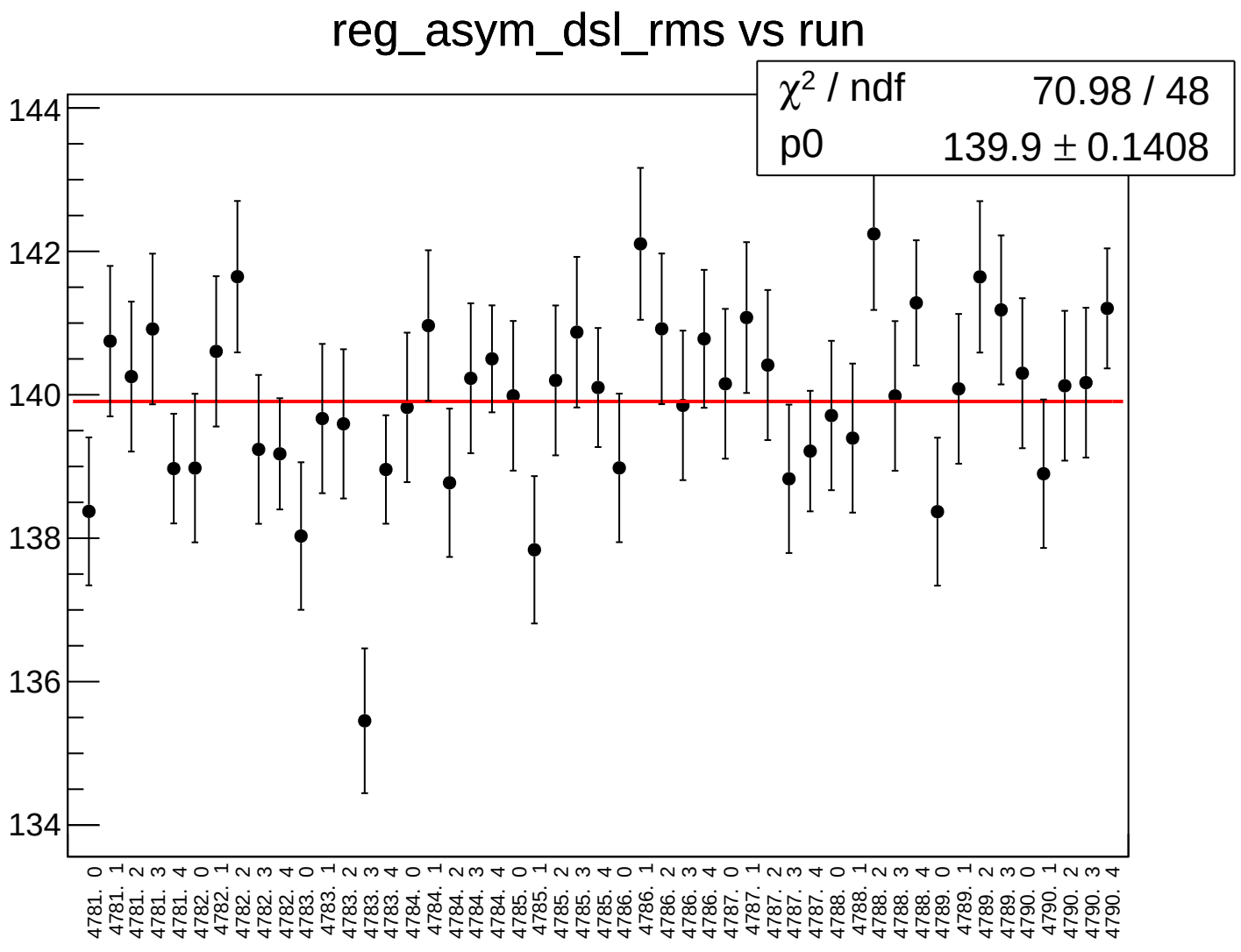

asym_usr_correction_rms vs run
χ² / ndf 519.8 / 48
p0 494.6 ± 0.498
520
510
500
490
480
470
460
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

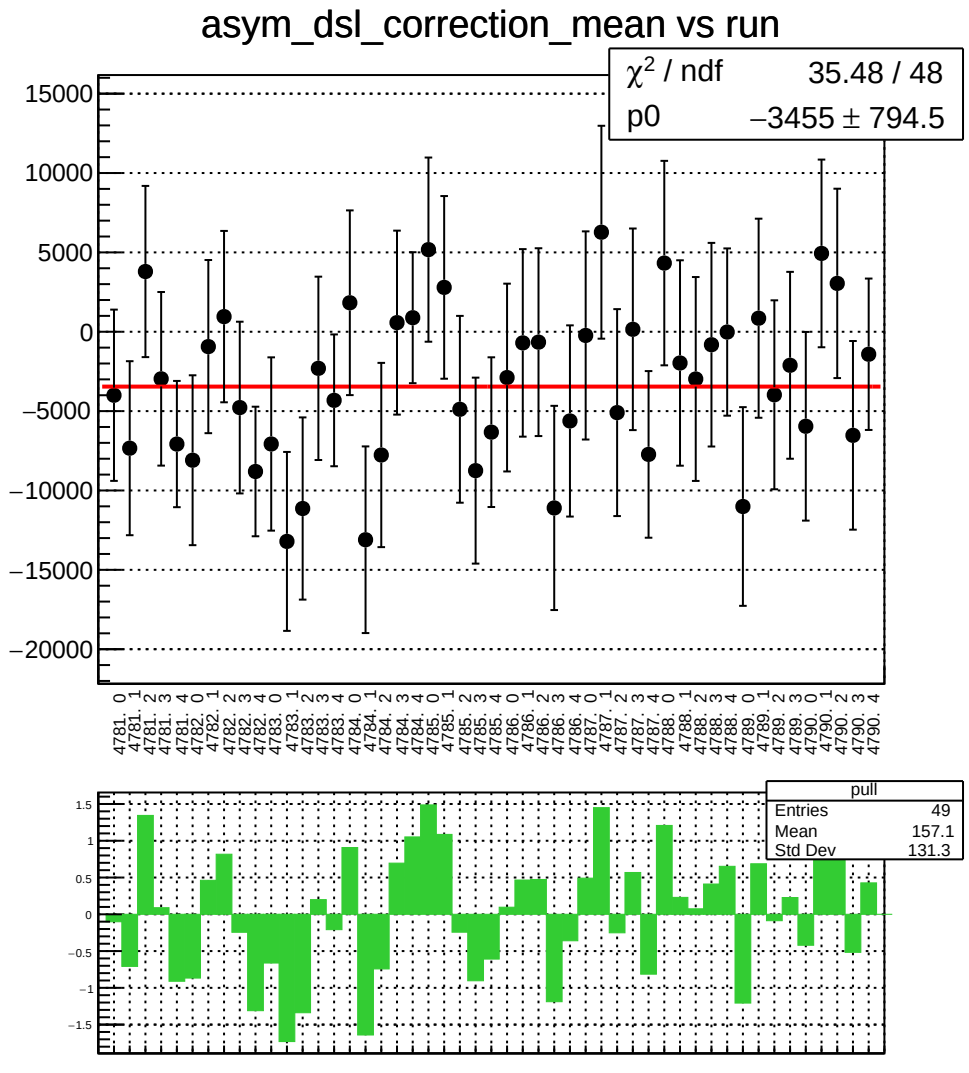

asym_usr_mean vs run
χ² / ndf 47.94 / 48
p0 −1927 ± 728.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −2.521
Std Dev 29.17
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean −0.02376
Std Dev 0.9889
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

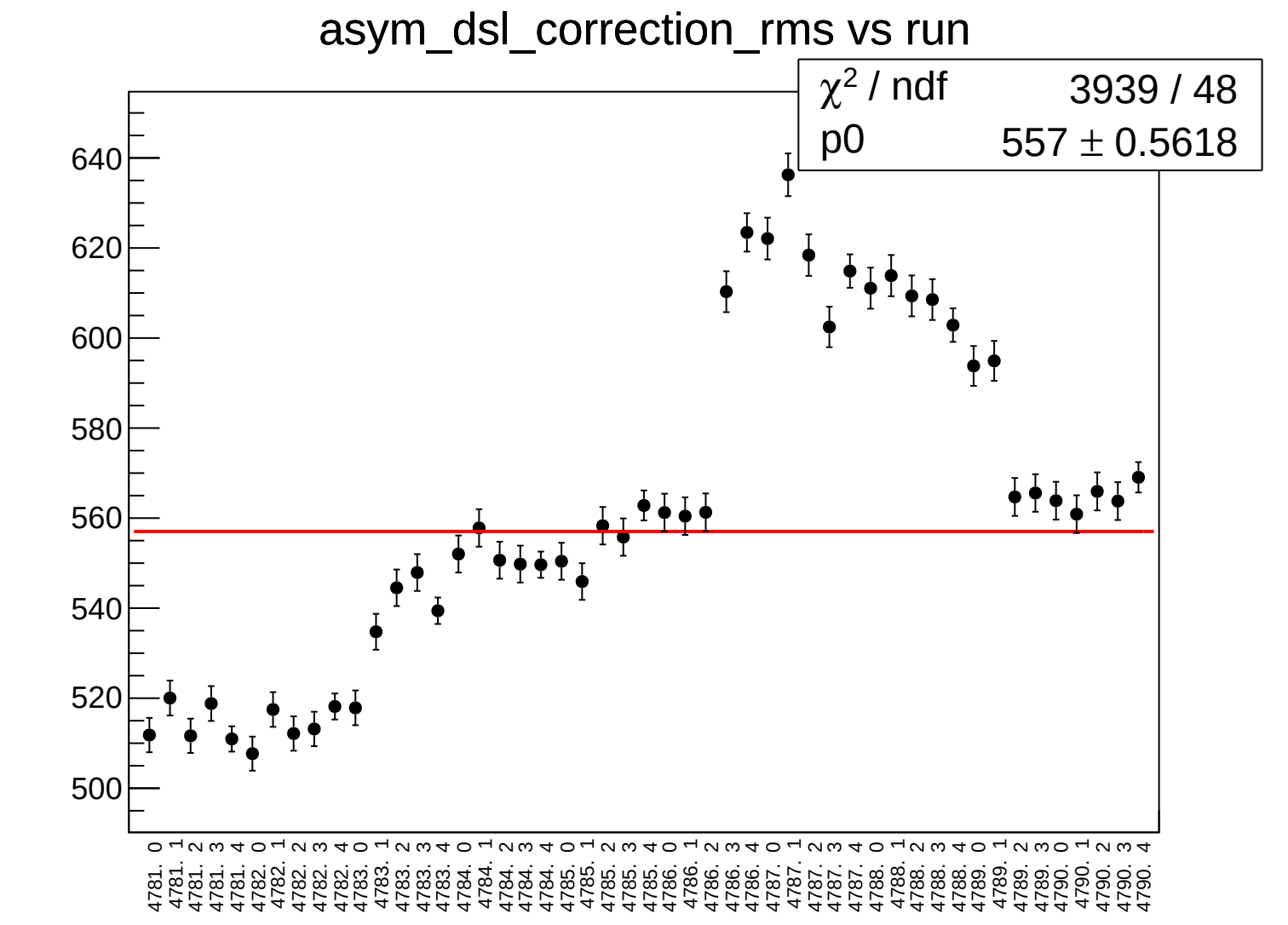

asym_usr_rms vs run
χ² / ndf 451.7 / 48
p0 511.7 ± 0.5152
540
530
520
510
500
490
480
470
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


reg_asym_dsl_mean vs run
χ² / ndf 33.46 / 48
p0 531.2 ± 199.2
pull
Entries 49
Mean −22.85
Std Dev 25.92


pull1D
Entries 49
Mean −0.005745
Std Dev 0.8263


reg_asym_dsl_rms vs run
χ² / ndf 70.98 / 48
p0 139.9 ± 0.1408
144
142
140
138
136
134
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


asym_dsl_correction_mean vs run
χ² / ndf 35.48 / 48
p0 −3455 ± 794.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 157.1
Std Dev 131.3
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 49
Mean 0.02144
Std Dev 0.8507
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_dsl_correction_rms vs run
χ² / ndf 3939 / 48
p0 557 ± 0.5618
640
620
600
580
560
540
520
500
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
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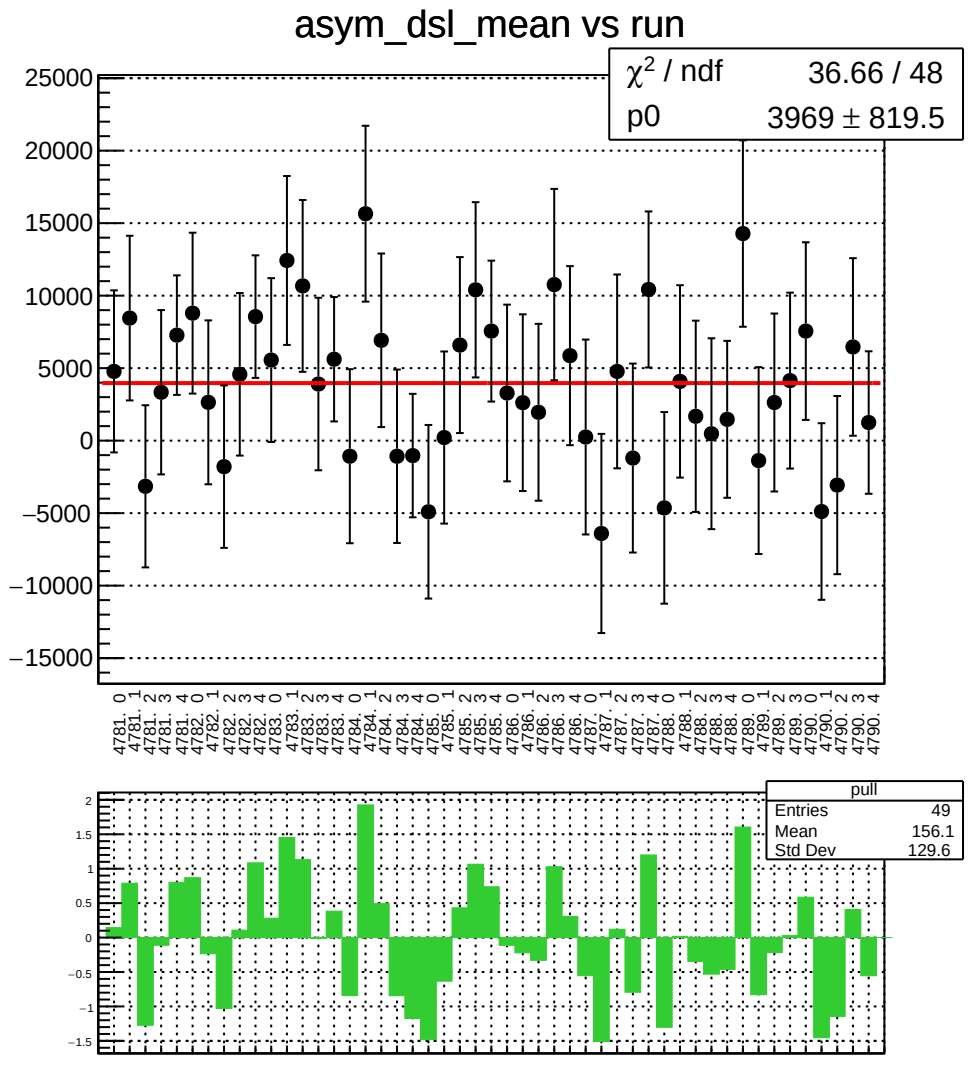
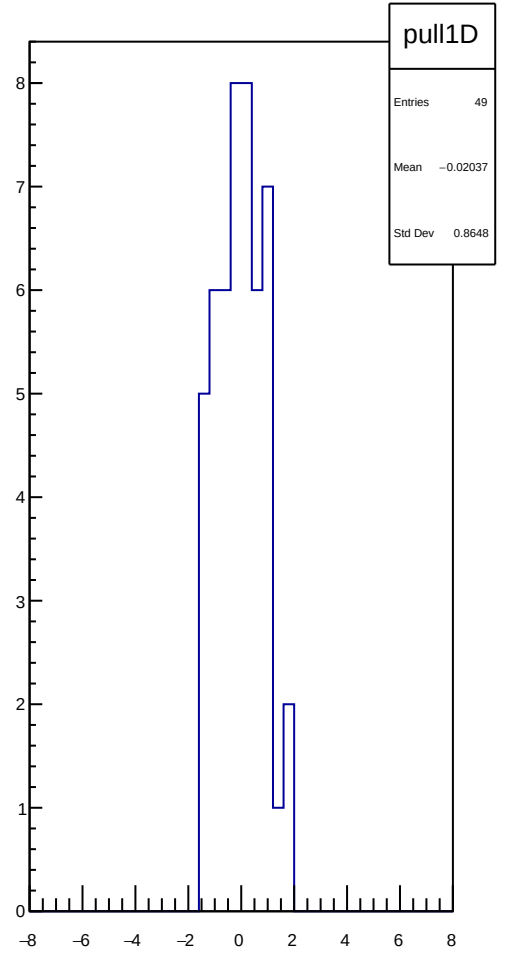
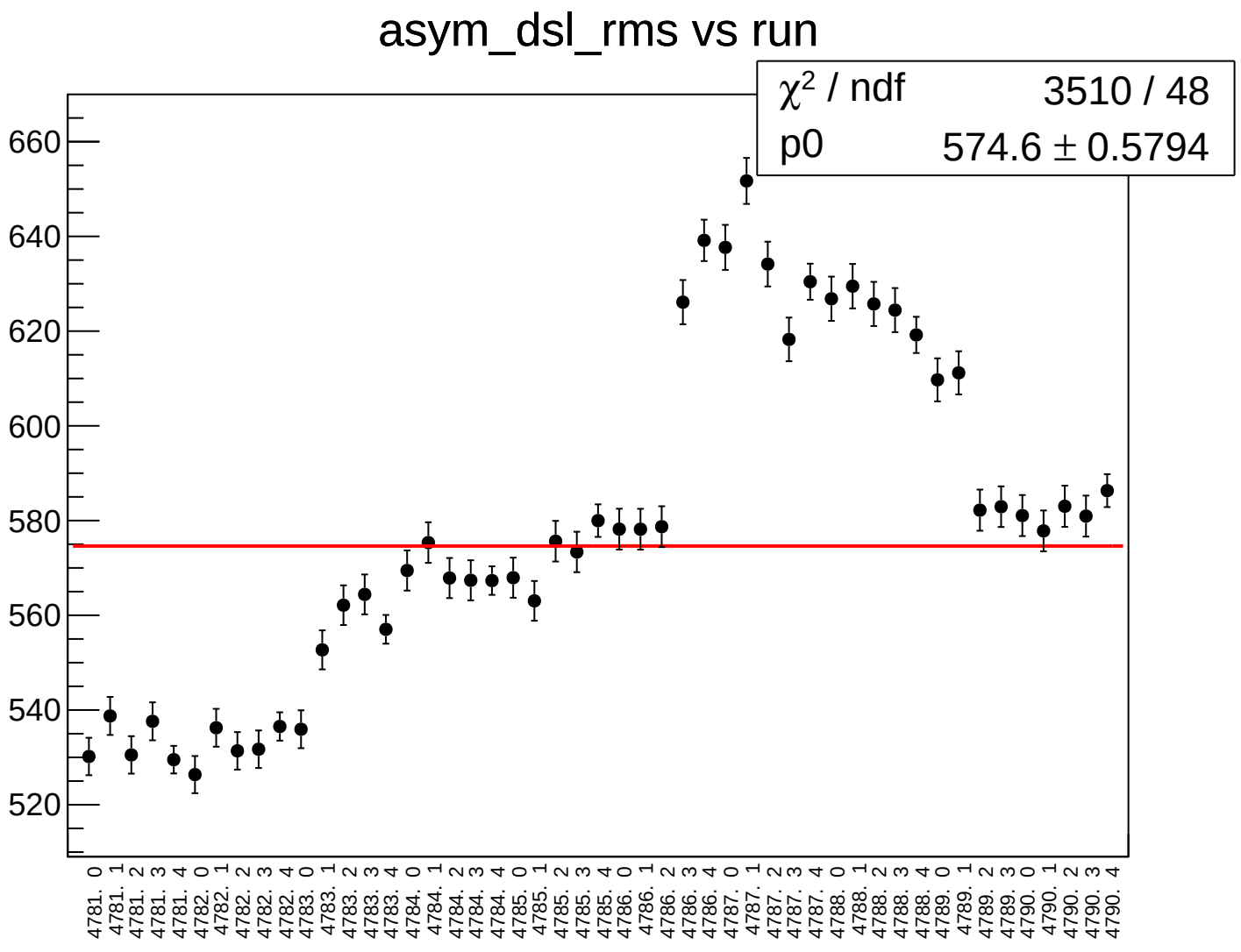
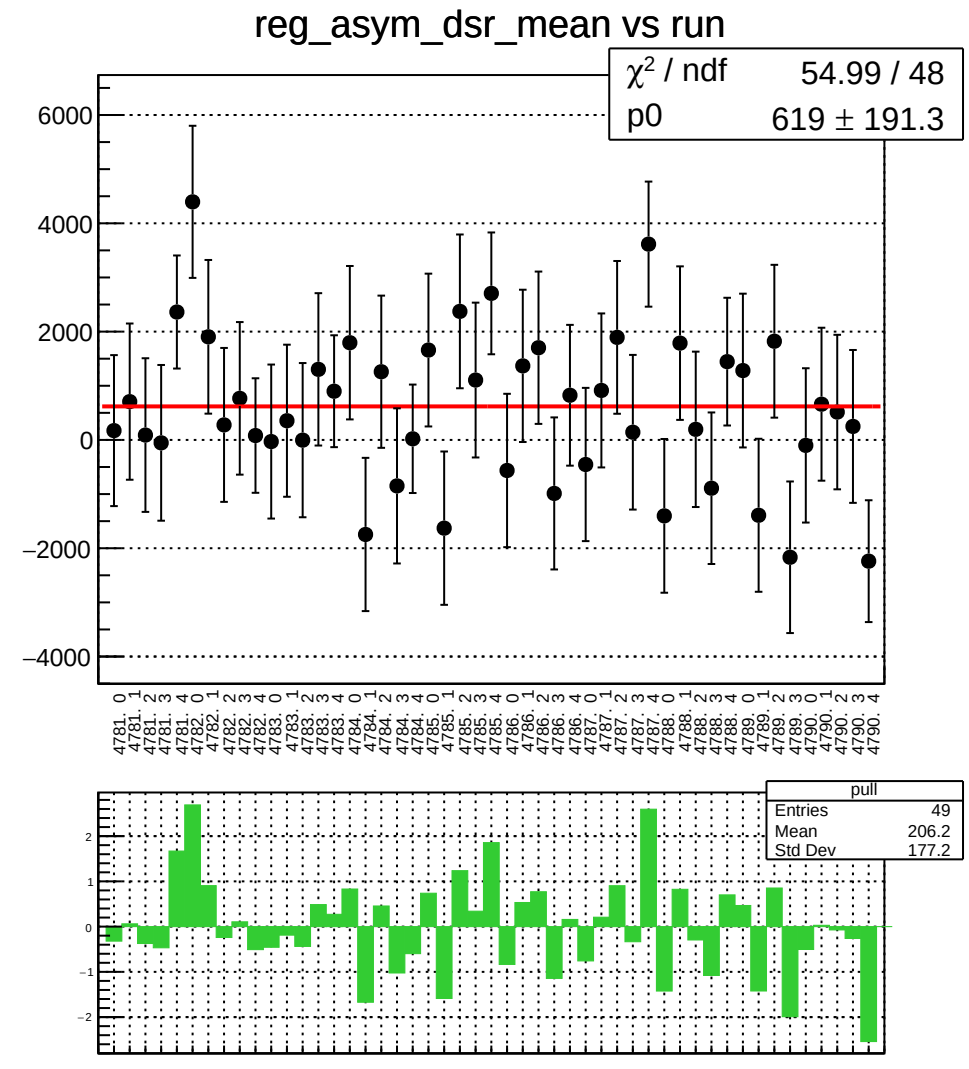
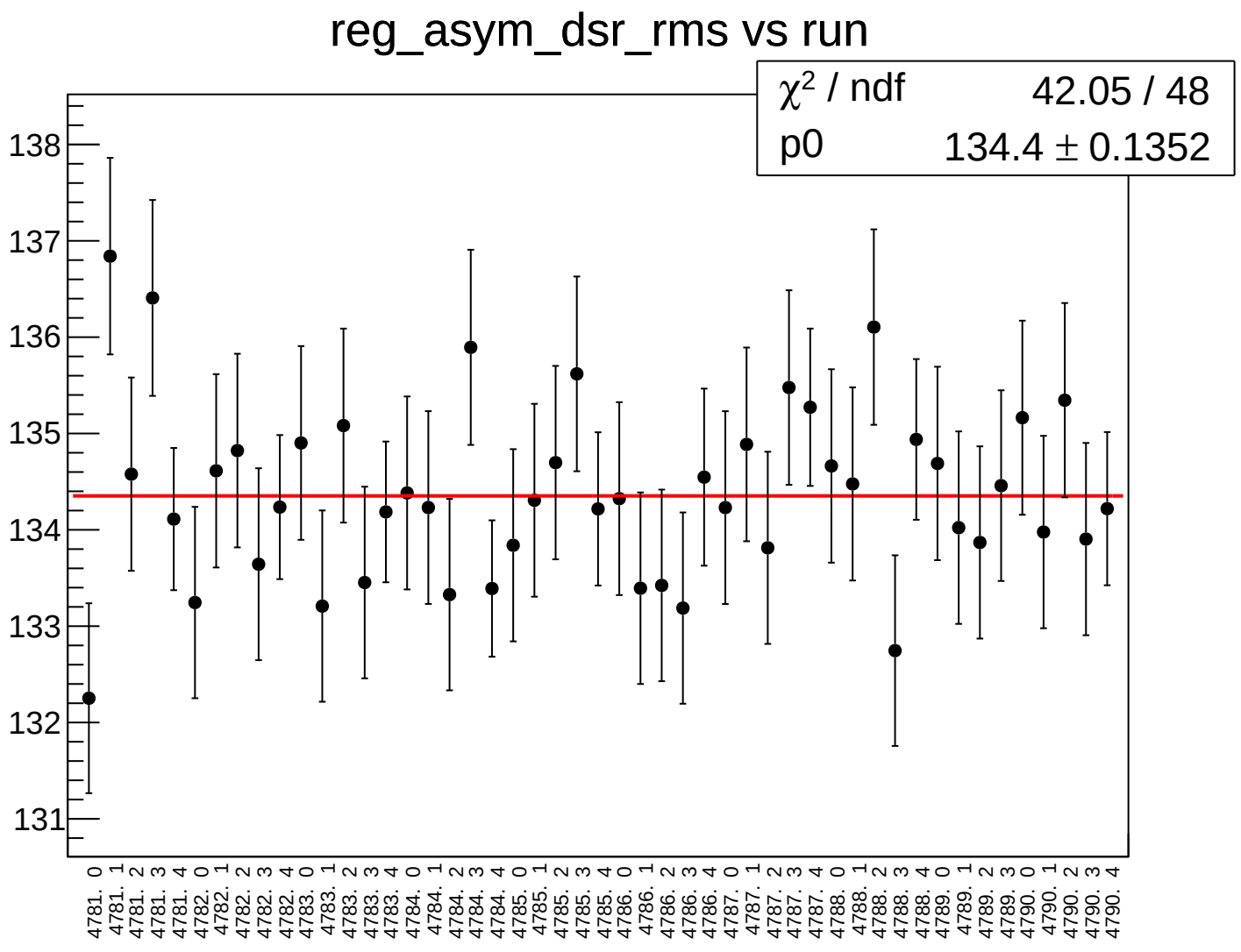
4790. 3
4790. 4


asym_dsl_mean vs run
χ² / ndf 36.66 / 48
p0 3969 ± 819.5
pull
Entries 49
Mean 156.1
Std Dev 129.6


pull1D
Entries 49
Mean −0.02037
Std Dev 0.8648


asym_dsl_rms vs run
χ² / ndf 3510 / 48
p0 574.6 ± 0.5794
660
640
620
600
580
560
540
520
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


reg_asym_dsr_mean vs run
χ^2 / ndf 54.99 / 48
p0 619 ± 191.3
6000
4000
2000
0
−2000
−4000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 206.2
Std Dev 177.2
2
1
0
−1
−2
pull1D
Entries 49
Mean −0.01744
Std Dev 1.059
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsr_rms vs run
χ² / ndf 42.05 / 48
p0 134.4 ± 0.1352
138
137
136
135
134
133
132
131
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
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4789. 2
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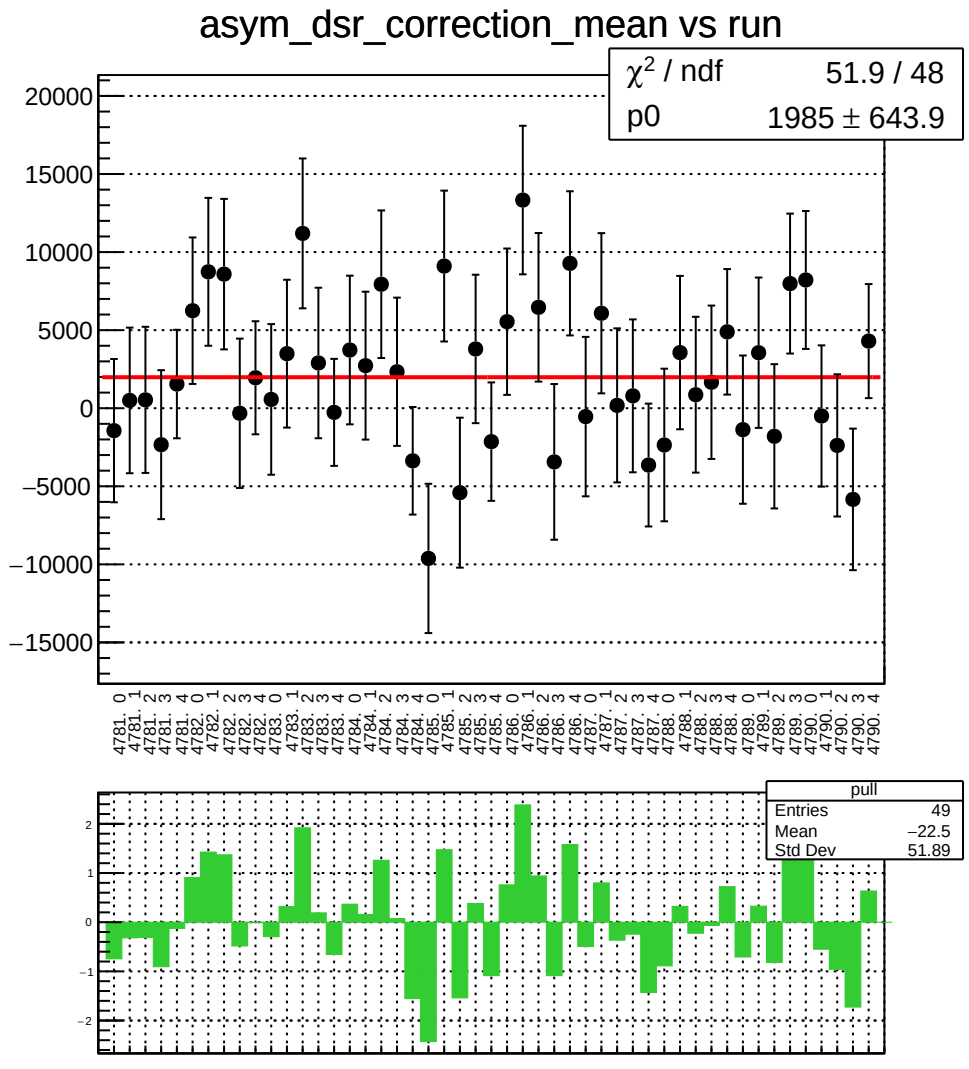
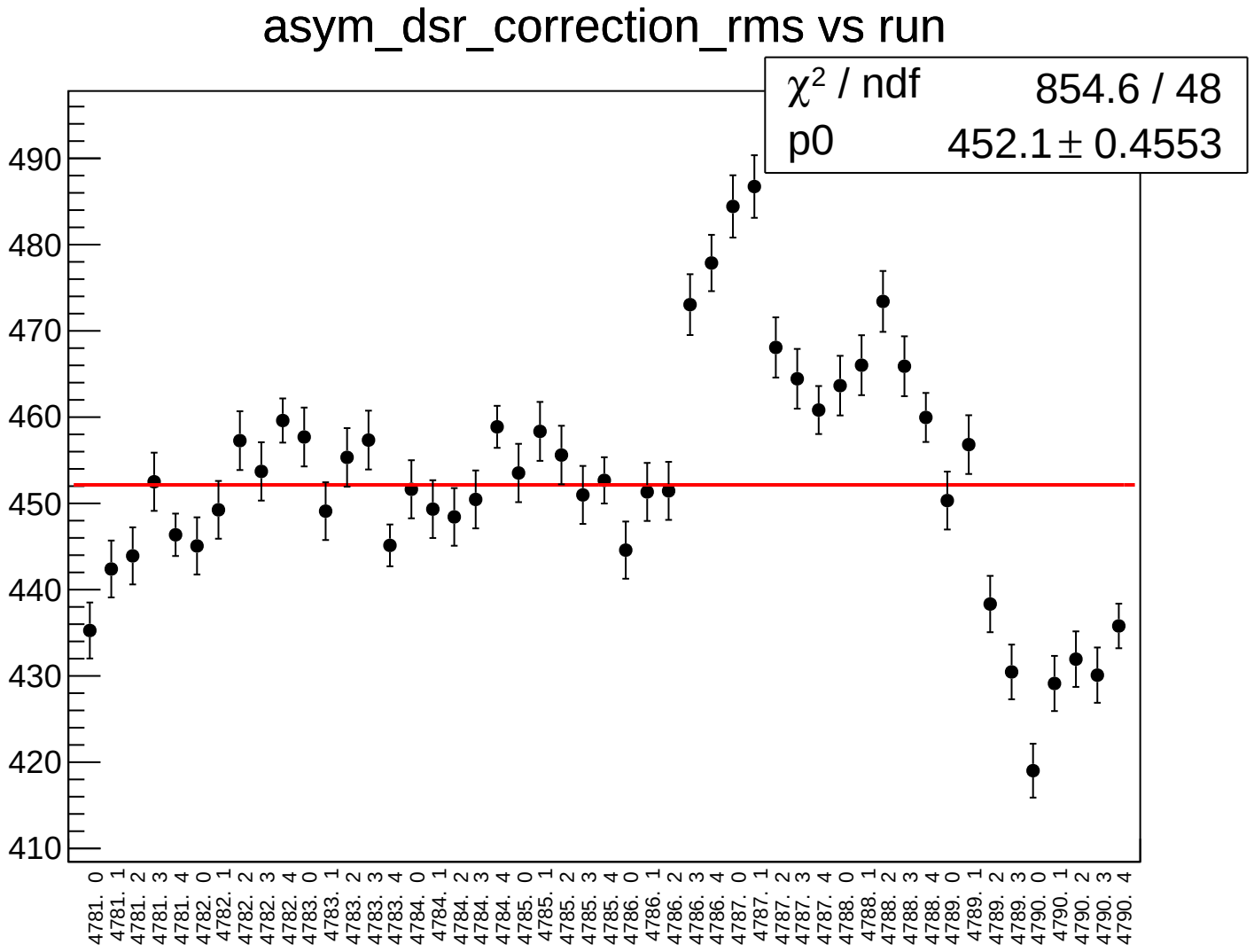
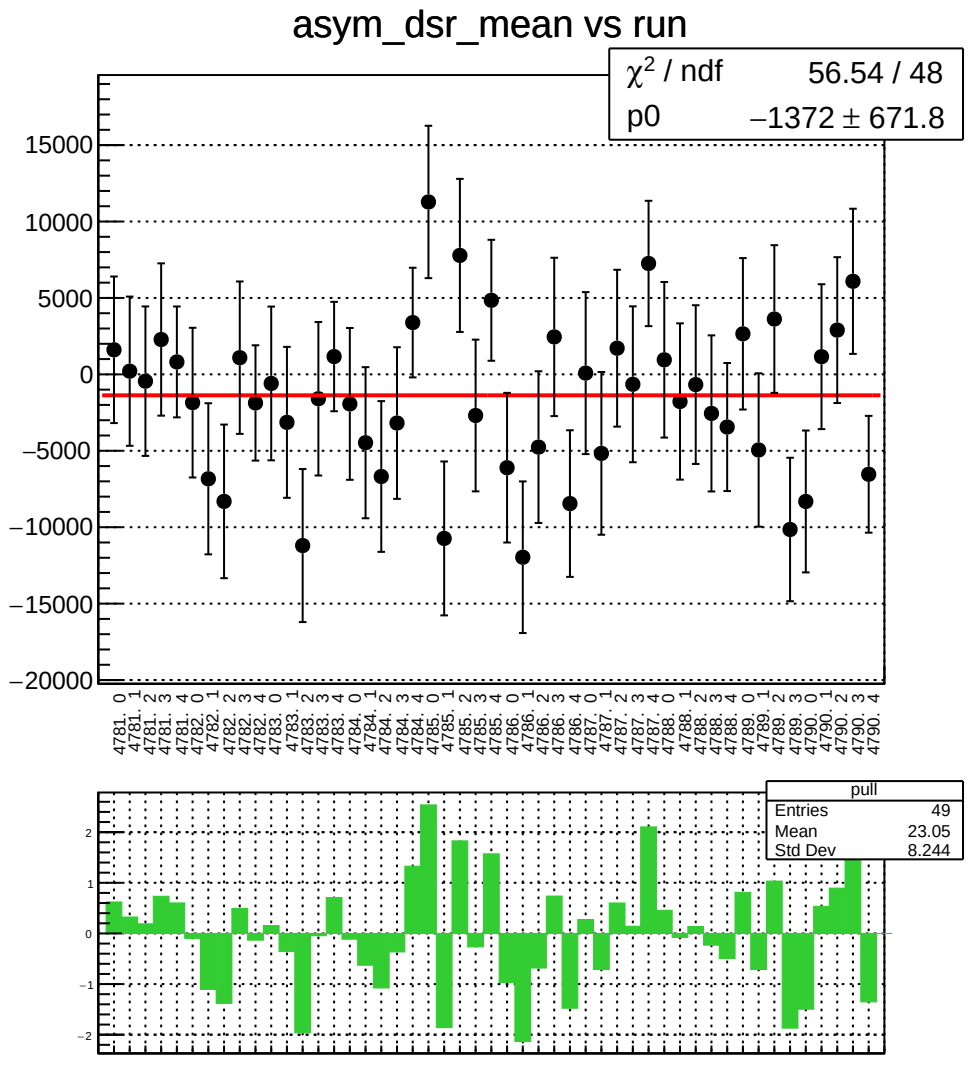
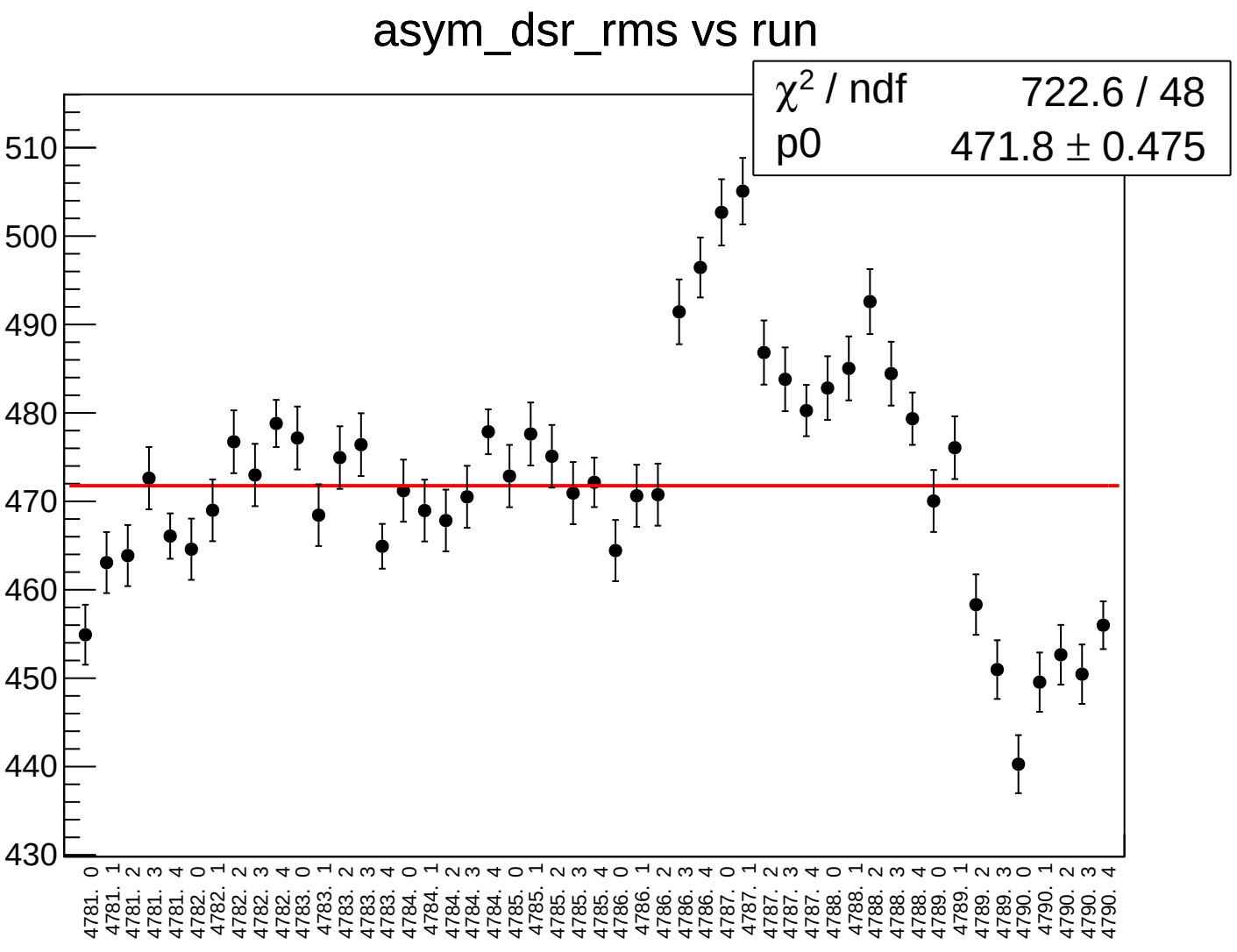
4790. 1
4790. 2
4790. 3
4790. 4


asym_dsr_correction_mean vs run
χ² / ndf 51.9 / 48
p0 1985 ± 643.9
20000
15000
10000
5000
0
−5000
−10000
−15000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −22.5
Std Dev 51.89
2
1
0
−1
−2
pull1D
Entries 49
Mean 0.02134
Std Dev 1.029
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_dsr_correction_rms vs run
χ² / ndf 854.6 / 48
p0 452.1 ± 0.4553
490
480
470
460
450
440
430
420
410
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


asym_dsr_mean vs run
χ² / ndf 56.54 / 48
p0 −1372 ± 671.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 23.05
Std Dev 8.244
2
1
0
−1
−2
pull1D
Entries 49
Mean −0.02472
Std Dev 1.074
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_dsr_rms vs run
χ² / ndf 722.6 / 48
p0 471.8 ± 0.475
510
500
490
480
470
460
450
440
430
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
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4789. 1
4789. 2
4789. 3
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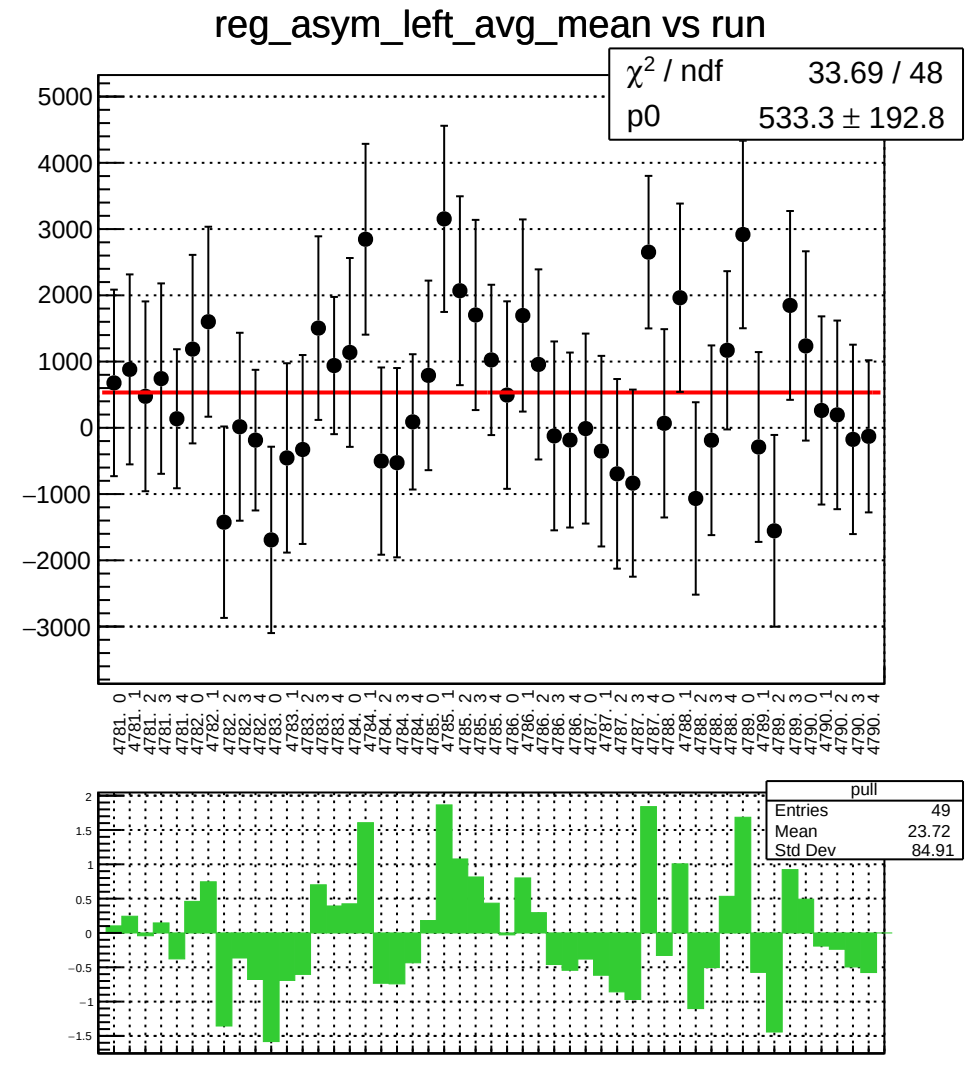
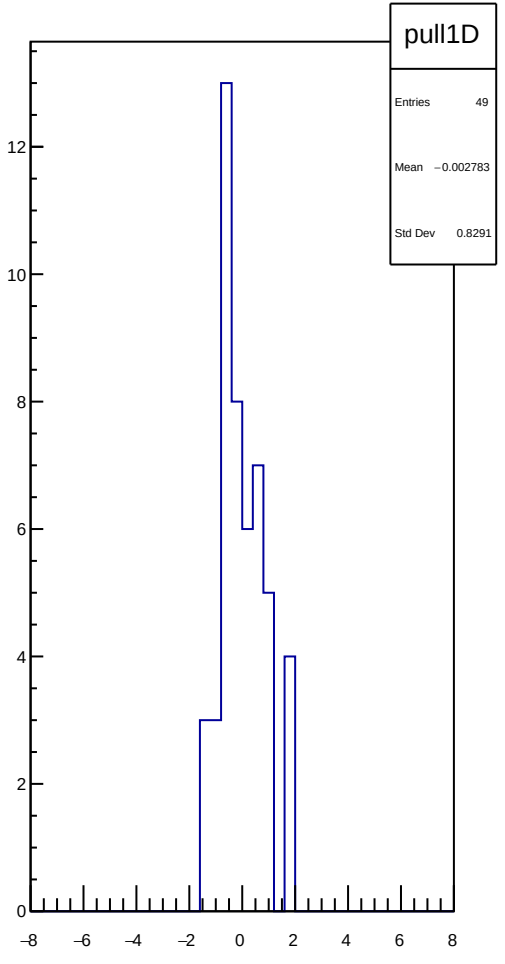
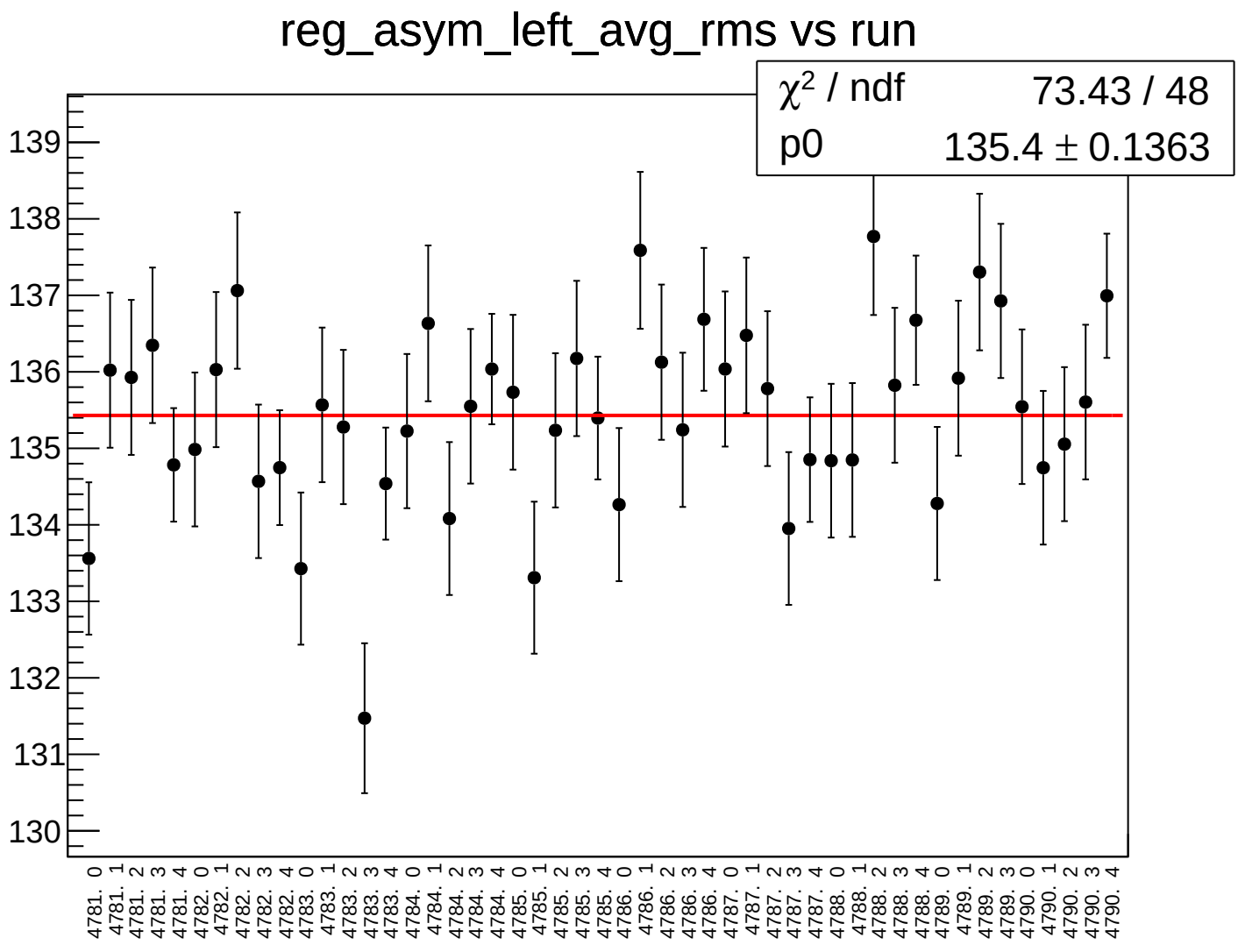
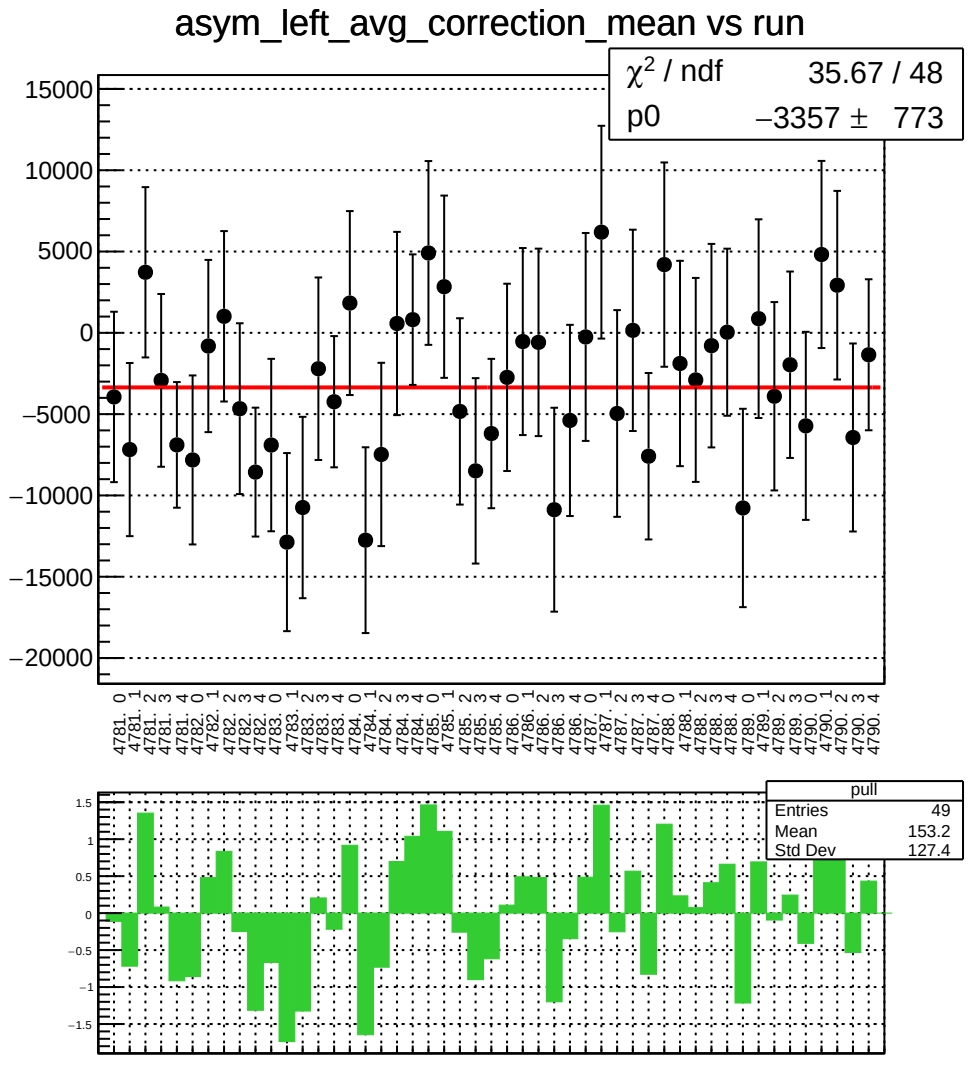
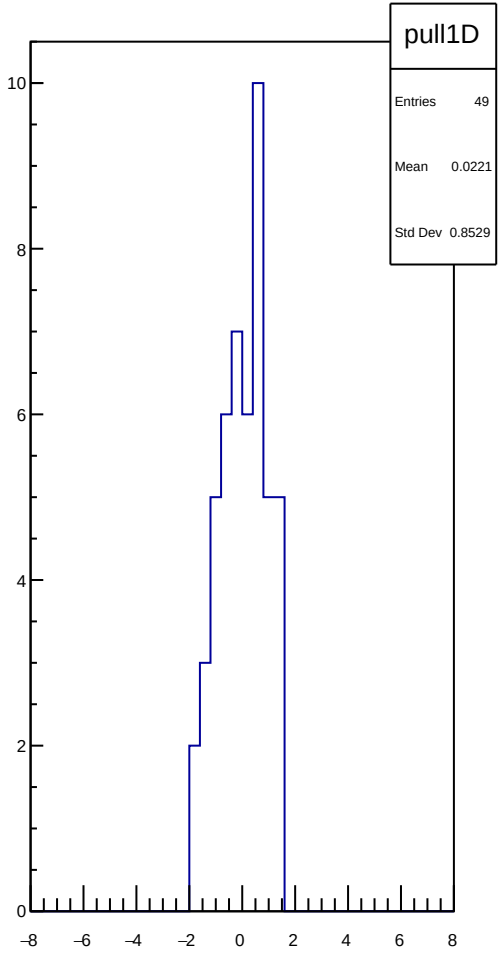
4790. 1
4790. 2
4790. 3
4790. 4

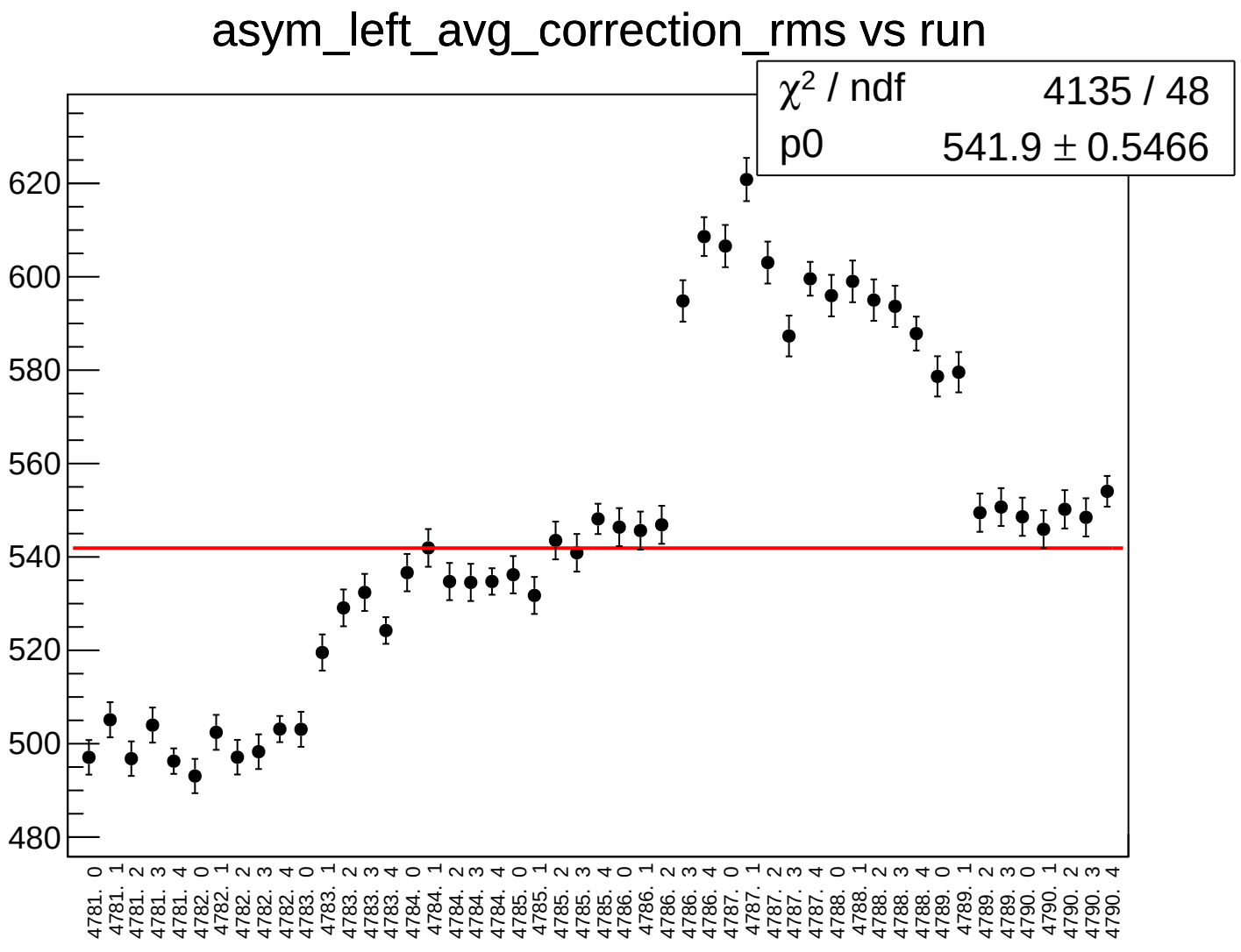

reg_asym_left_avg_mean vs run
χ² / ndf 33.69 / 48
p0 533.3 ± 192.8
pull
Entries 49
Mean 23.72
Std Dev 84.91

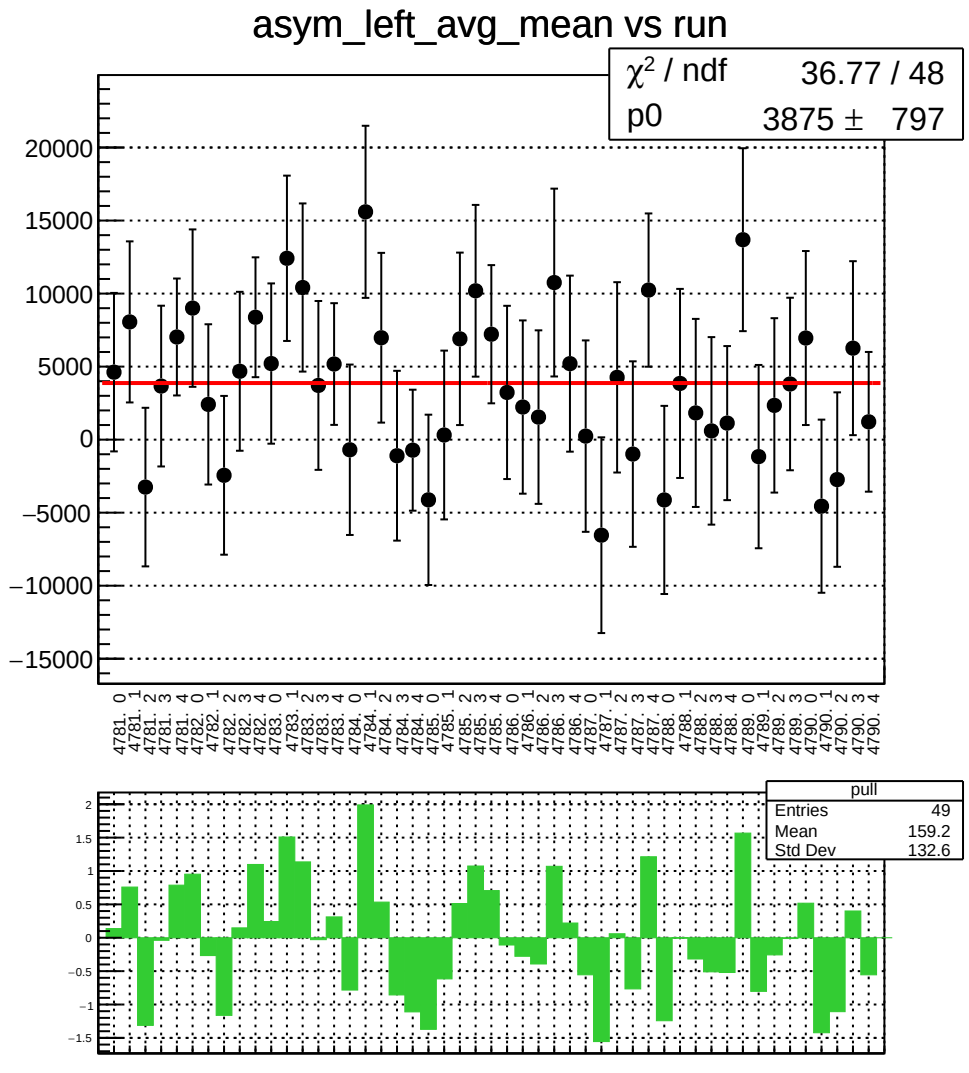

pull1D
Entries 49
Mean −0.002783
Std Dev 0.8291

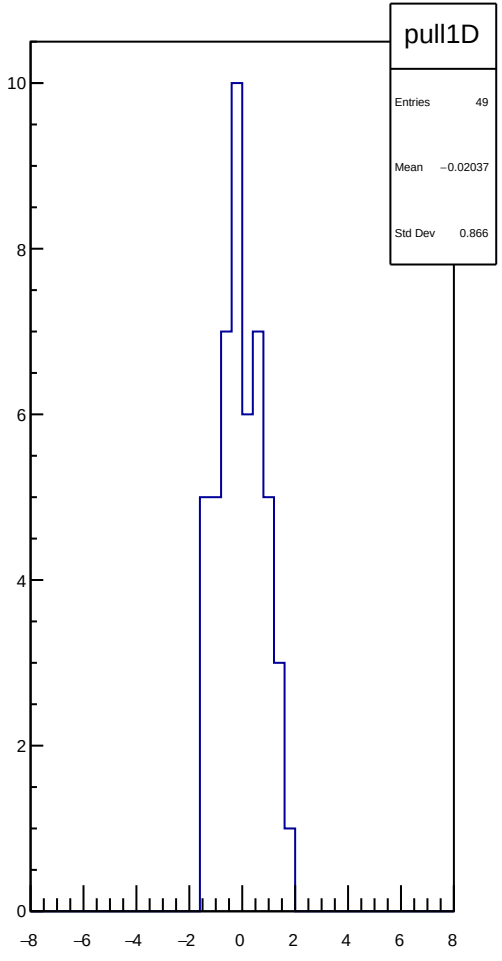

reg_asym_left_avg_rms vs run
χ² / ndf 73.43 / 48
p0 135.4 ± 0.1363
139
138
137
136
135
134
133
132
131
130
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

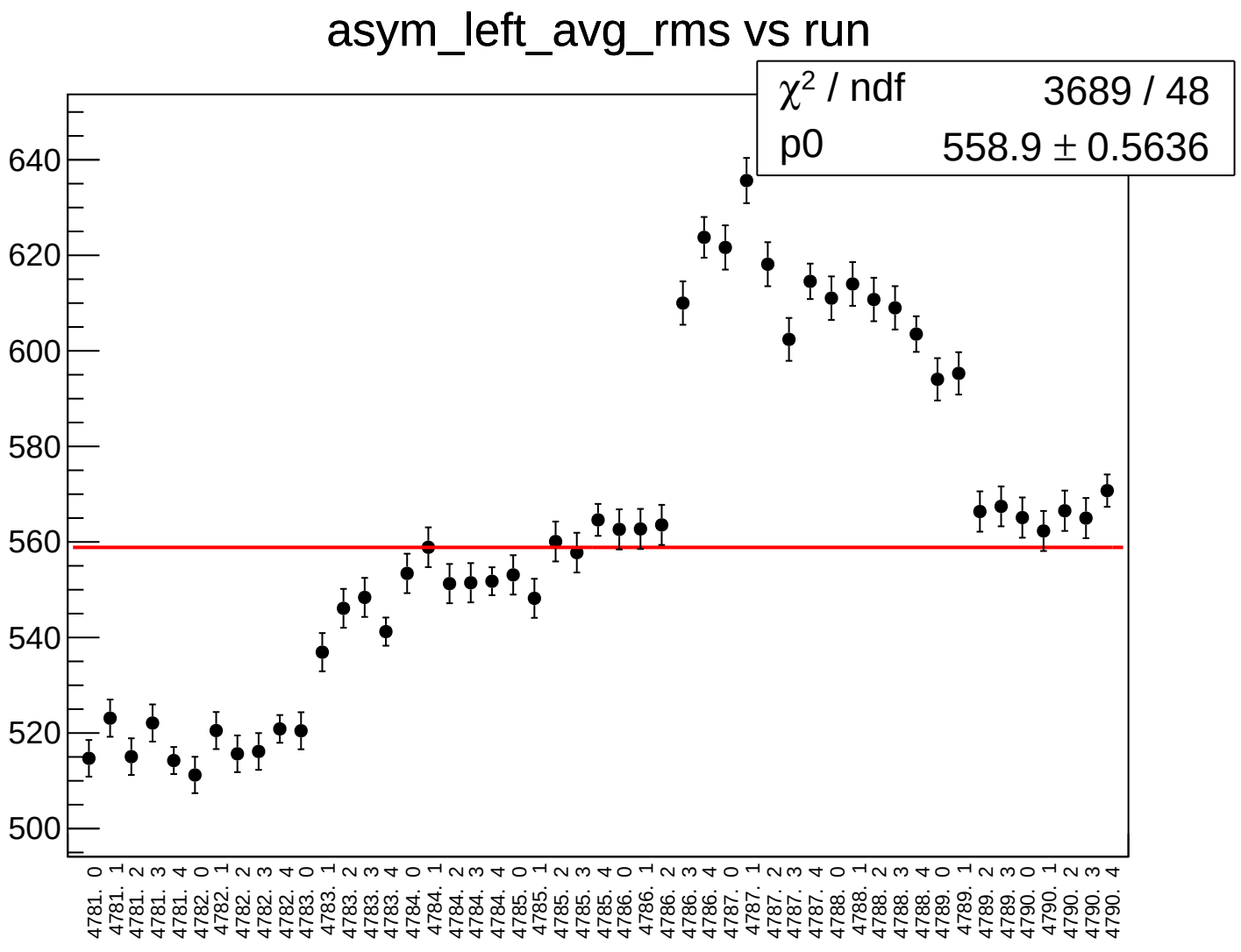

asym_left_avg_correction_mean vs run
χ² / ndf 35.67 / 48
p0 −3357 ± 773
15000
10000
5000
0
−5000
−10000
−15000
−20000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 153.2
Std Dev 127.4
1.5
1
0.5
0
−0.5
−1
−1.5

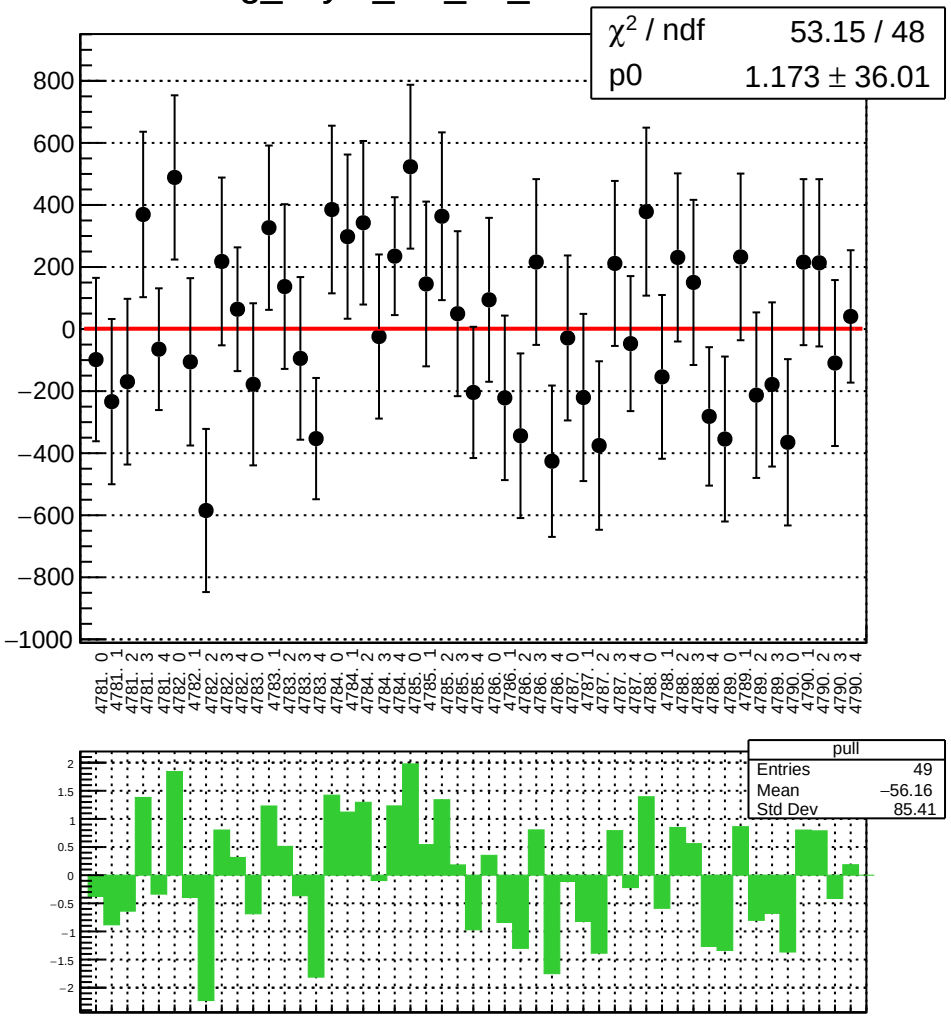

pull1D
Entries 49
Mean 0.0221
Std Dev 0.8529
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

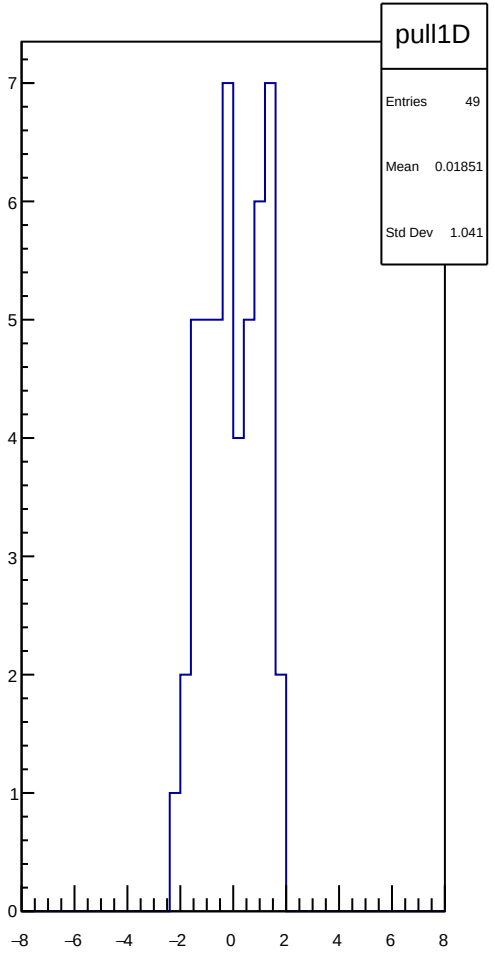

asym_left_avg_correction_rms vs run
χ² / ndf 4135 / 48
p0 541.9 ± 0.5466
620
600
580
560
540
520
500
480
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

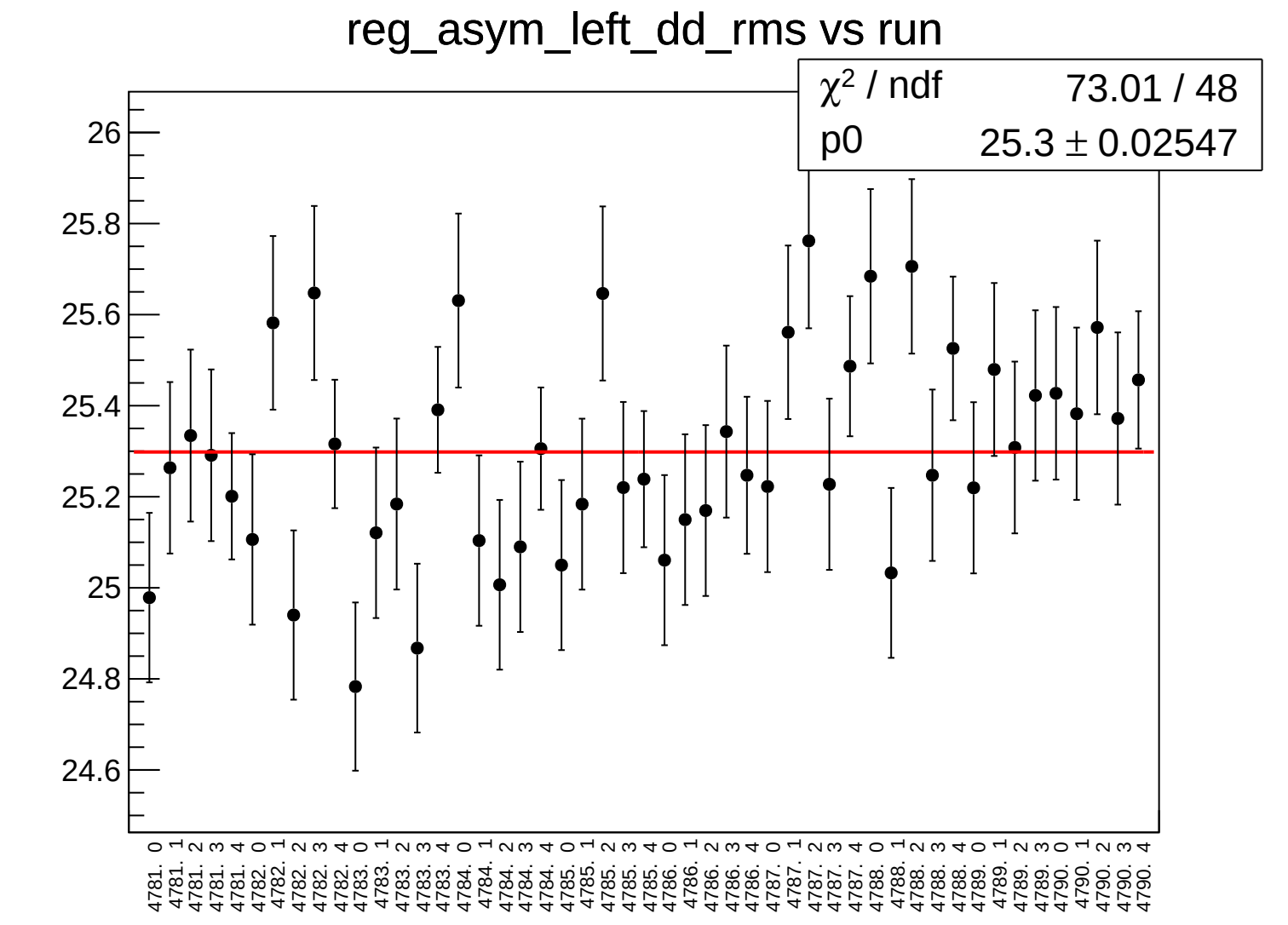

asym_left_avg_mean vs run
χ² / ndf 36.77 / 48
p0 3875 ± 797
20000
15000
10000
5000
0
−5000
−10000
−15000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 159.2
Std Dev 132.6
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 49
Mean −0.02037
Std Dev 0.866
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_left_avg_rms vs run
χ² / ndf 3689 / 48
p0 558.9 ± 0.5636
640
620
600
580
560
540
520
500
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


reg_asym_left_dd_mean vs run
χ^2 / ndf 53.15 / 48
p0 1.173 ± 36.01
pull
Entries 49
Mean −56.16
Std Dev 85.41


pull1D
Entries 49
Mean 0.01851
Std Dev 1.041


reg_asym_left_dd_rms vs run
χ² / ndf 73.01 / 48
p0 25.3 ± 0.02547
26
25.8
25.6
25.4
25.2
25
24.8
24.6
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
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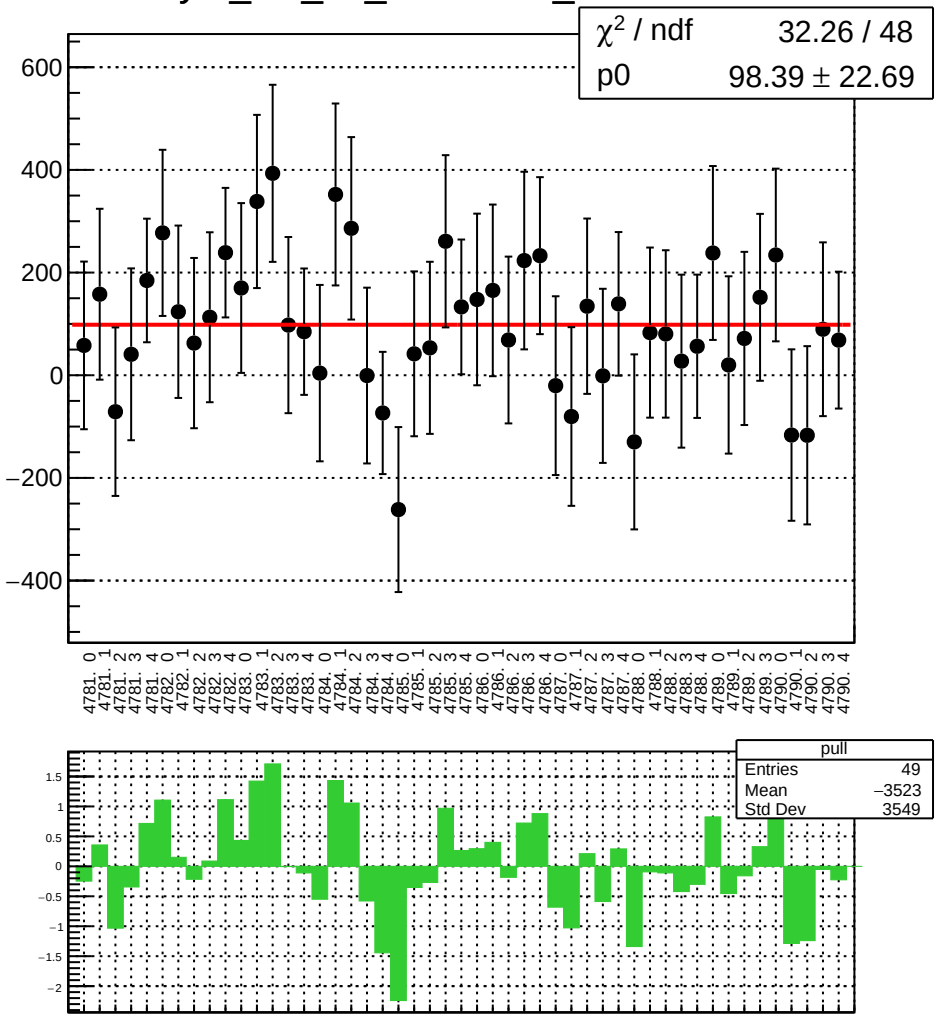
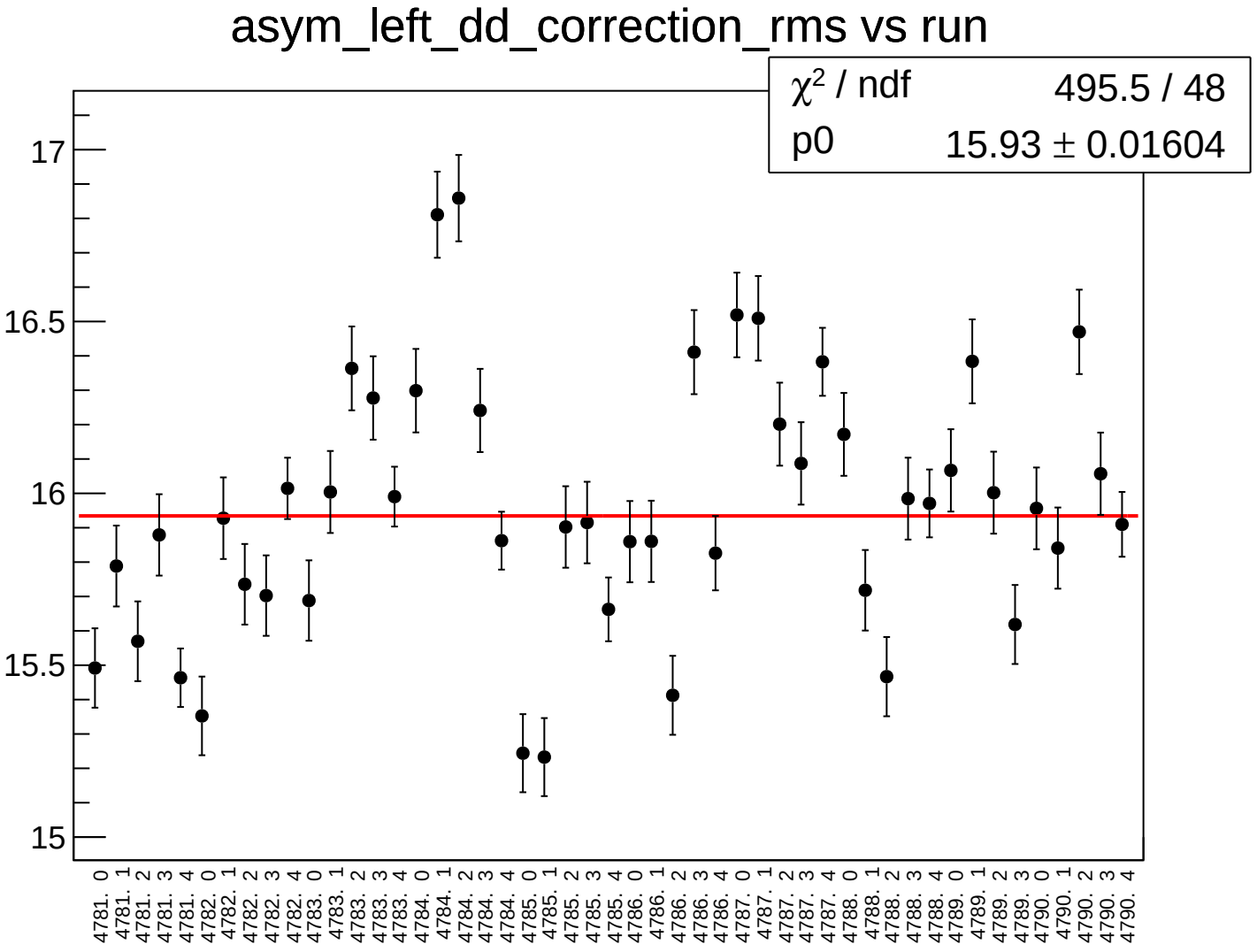
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


asym_left_dd_correction_mean vs run
χ^2 / ndf 32.26 / 48
p0 98.39 ± 22.69
600
400
200
0
−200
−400
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −3523
Std Dev 3549
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean 0.0007483
Std Dev 0.8114
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_left_dd_correction_rms vs run
χ² / ndf 495.5 / 48
p0 15.93 ± 0.01604
17
16.5
16
15.5
15
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
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4784. 0
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4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
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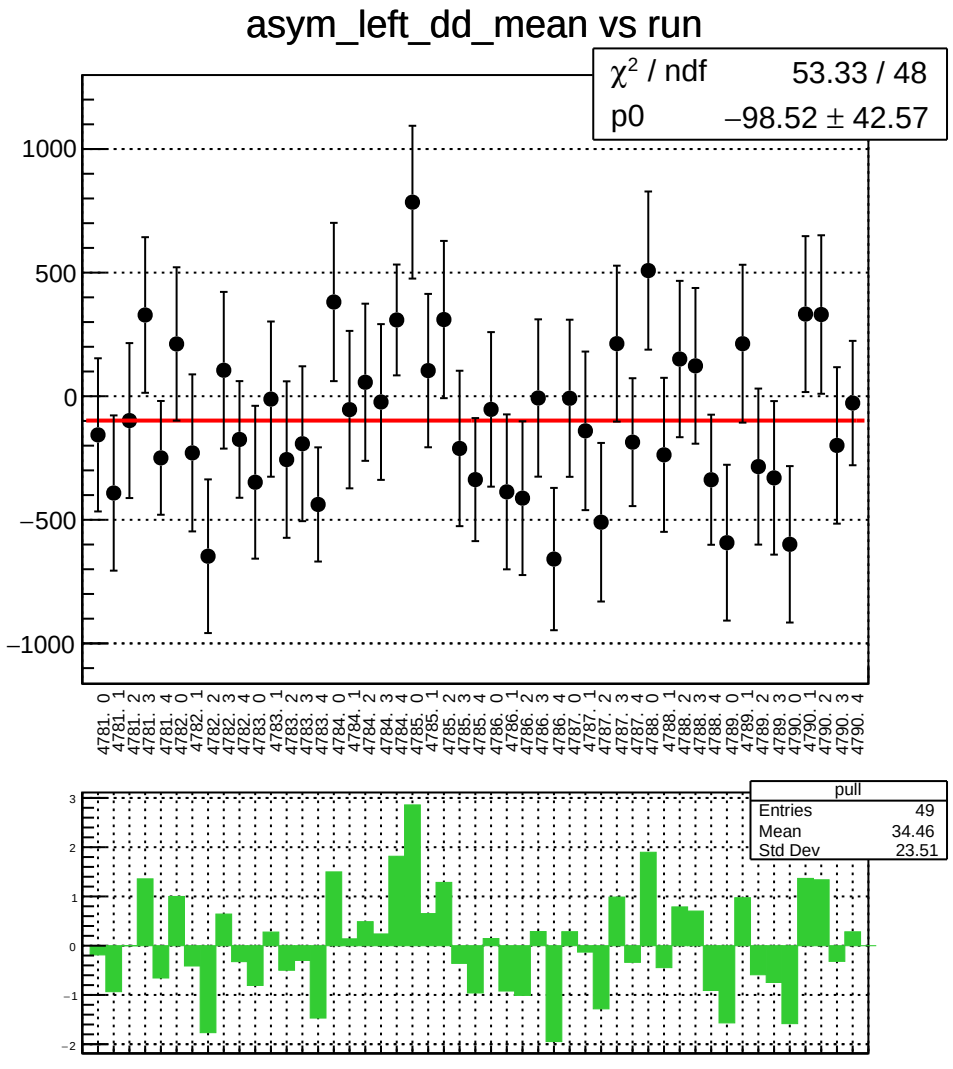
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


asym_left_dd_mean vs run
χ² / ndf 53.33 / 48
p0 −98.52 ± 42.57
1000
500
0
−500
−1000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
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4786. 1
4786. 2
4786. 3
4786. 4
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4787. 1
4787. 2
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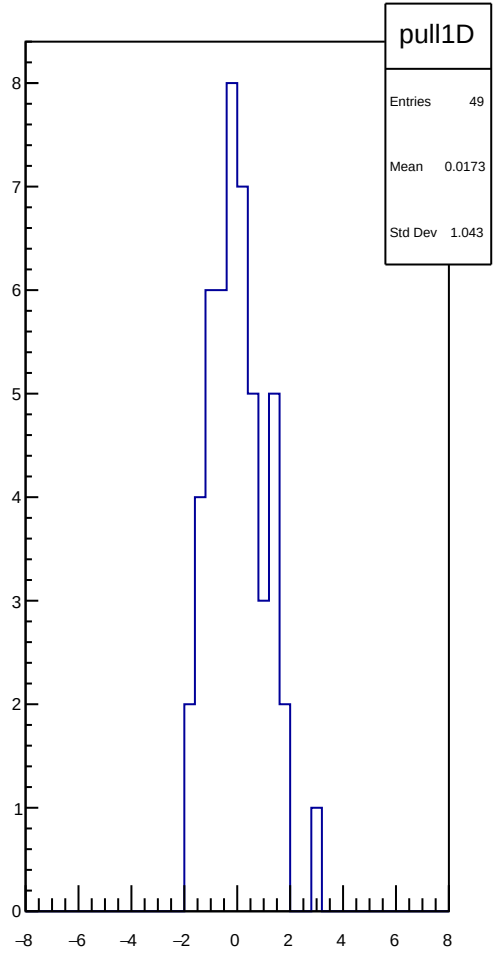
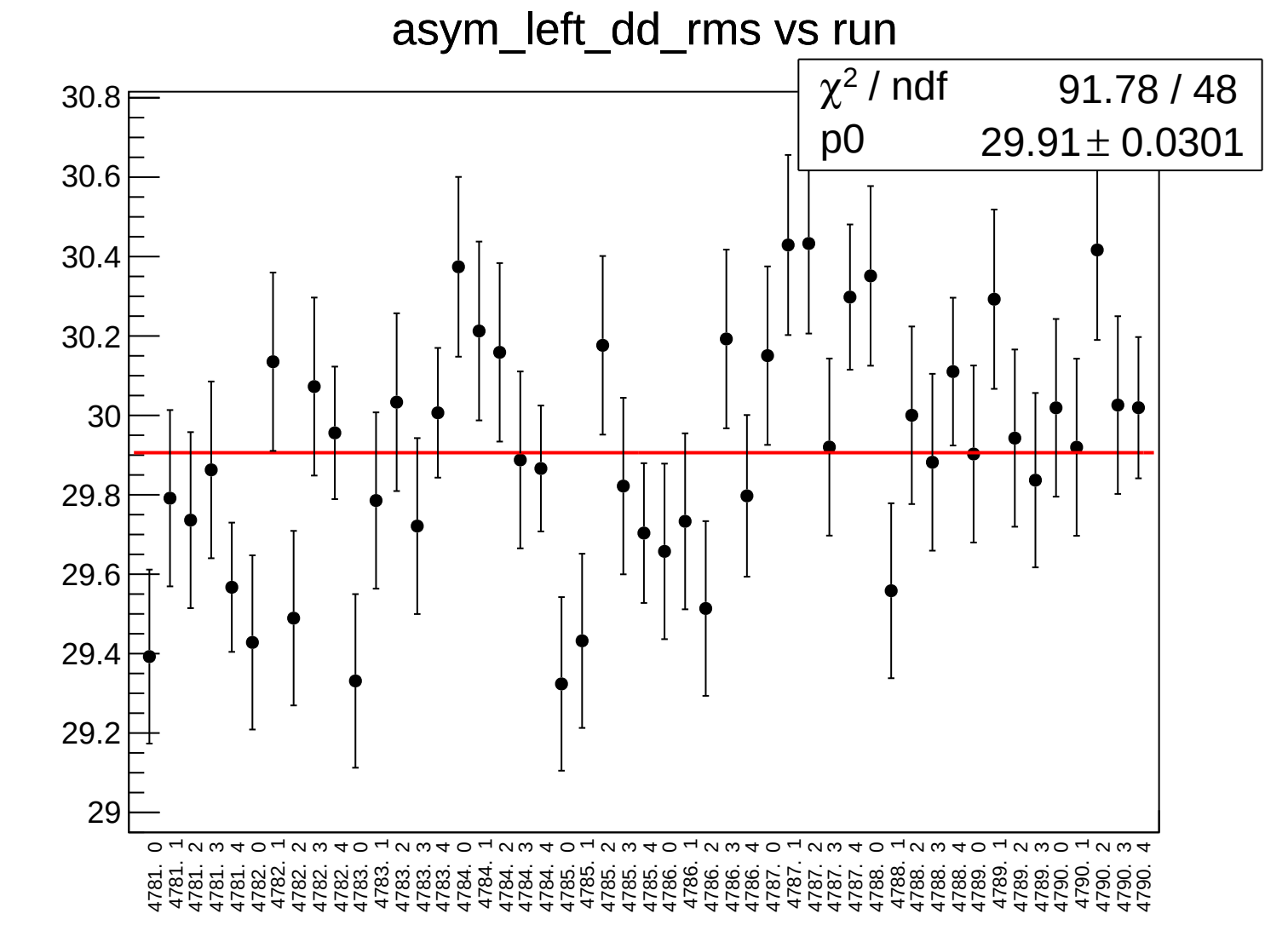
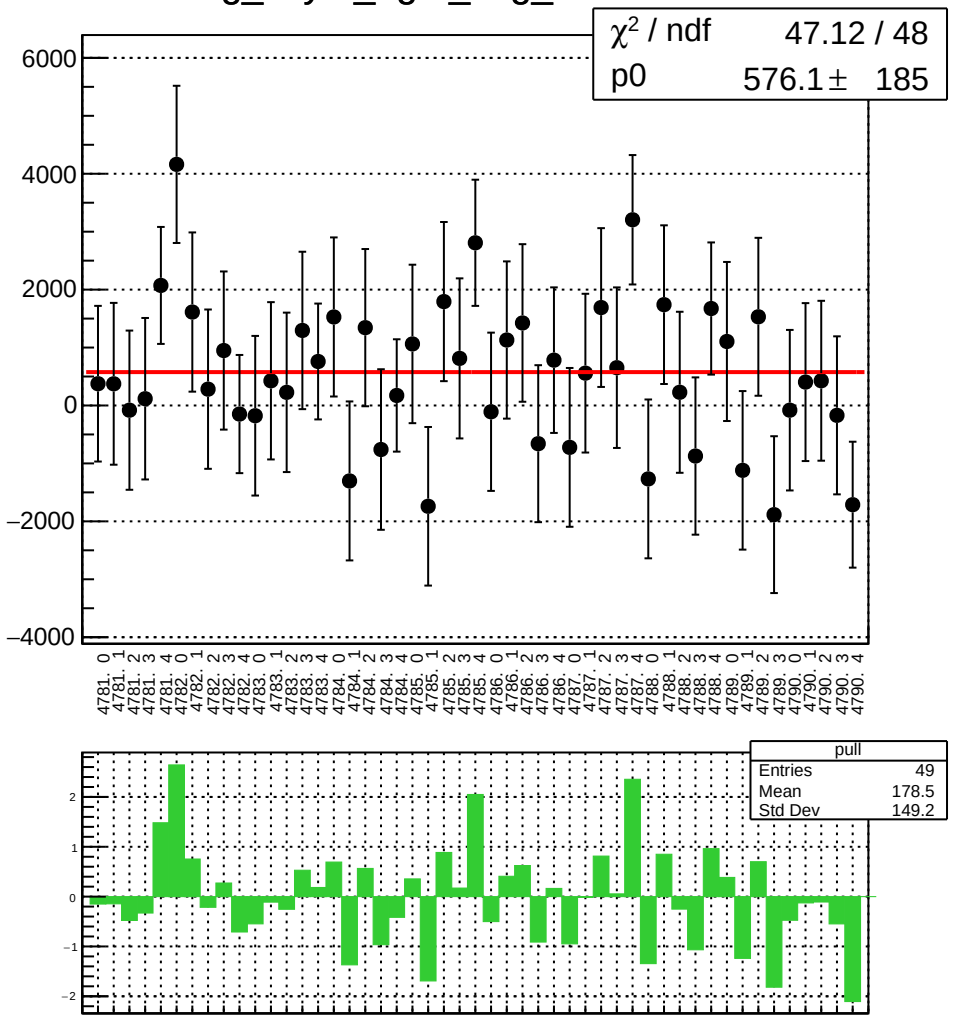
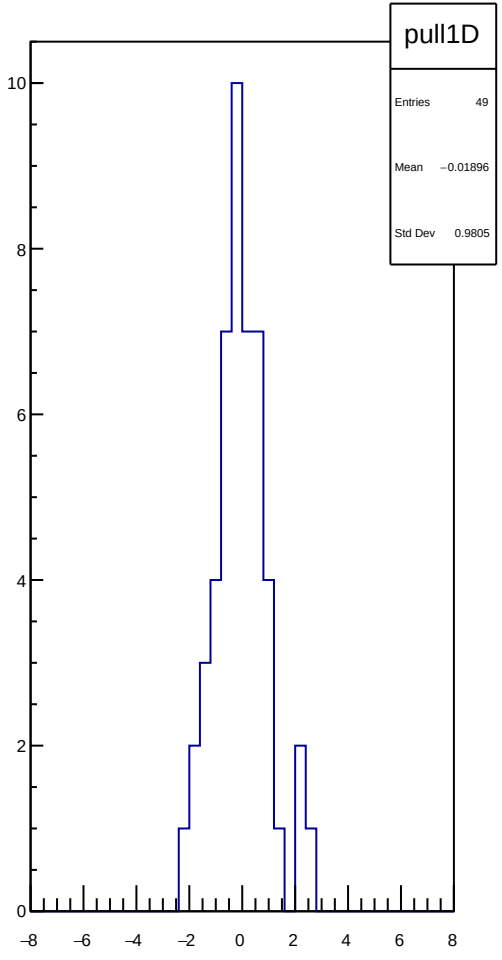
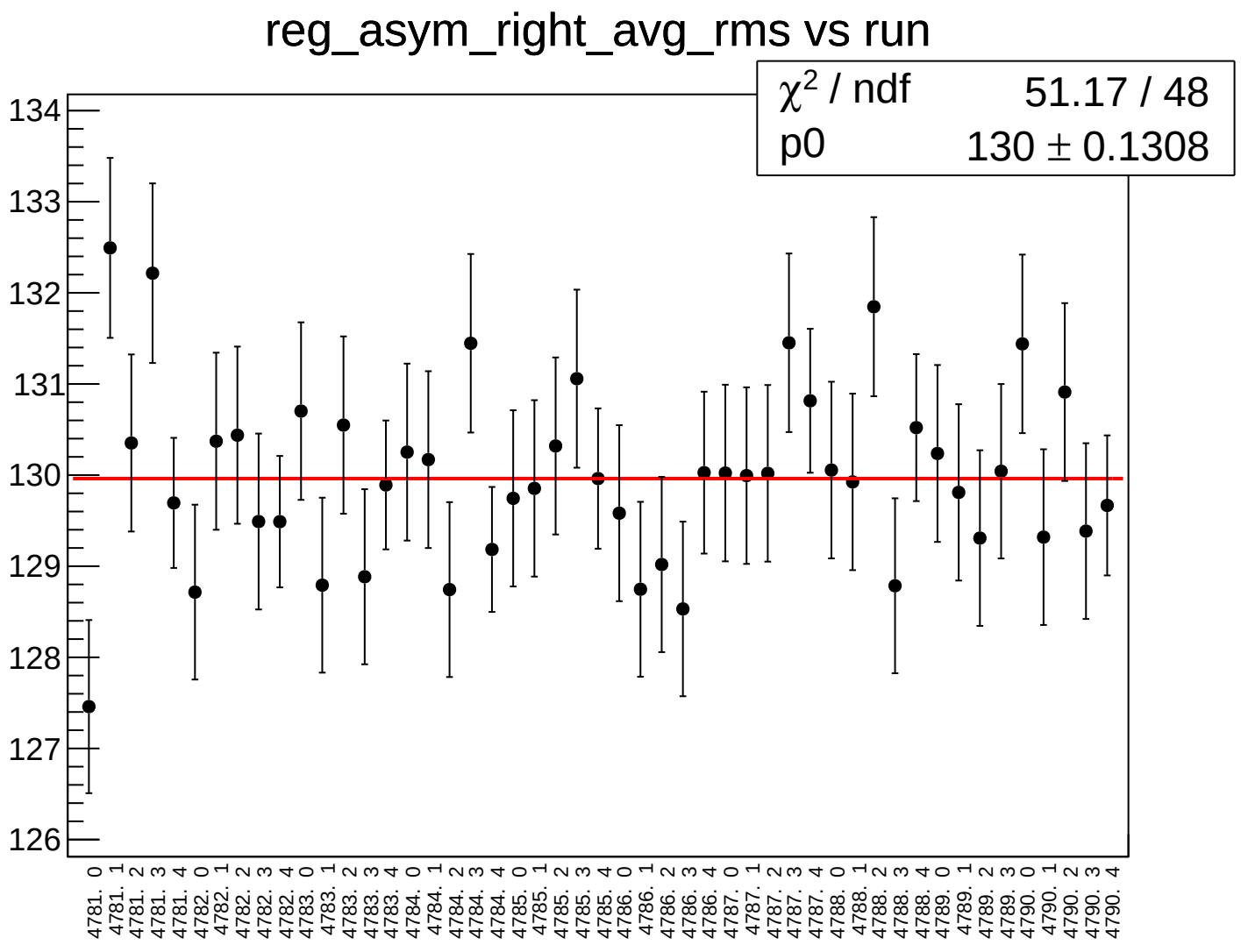
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 34.46
Std Dev 23.51
3
2
1
0
−1
−2

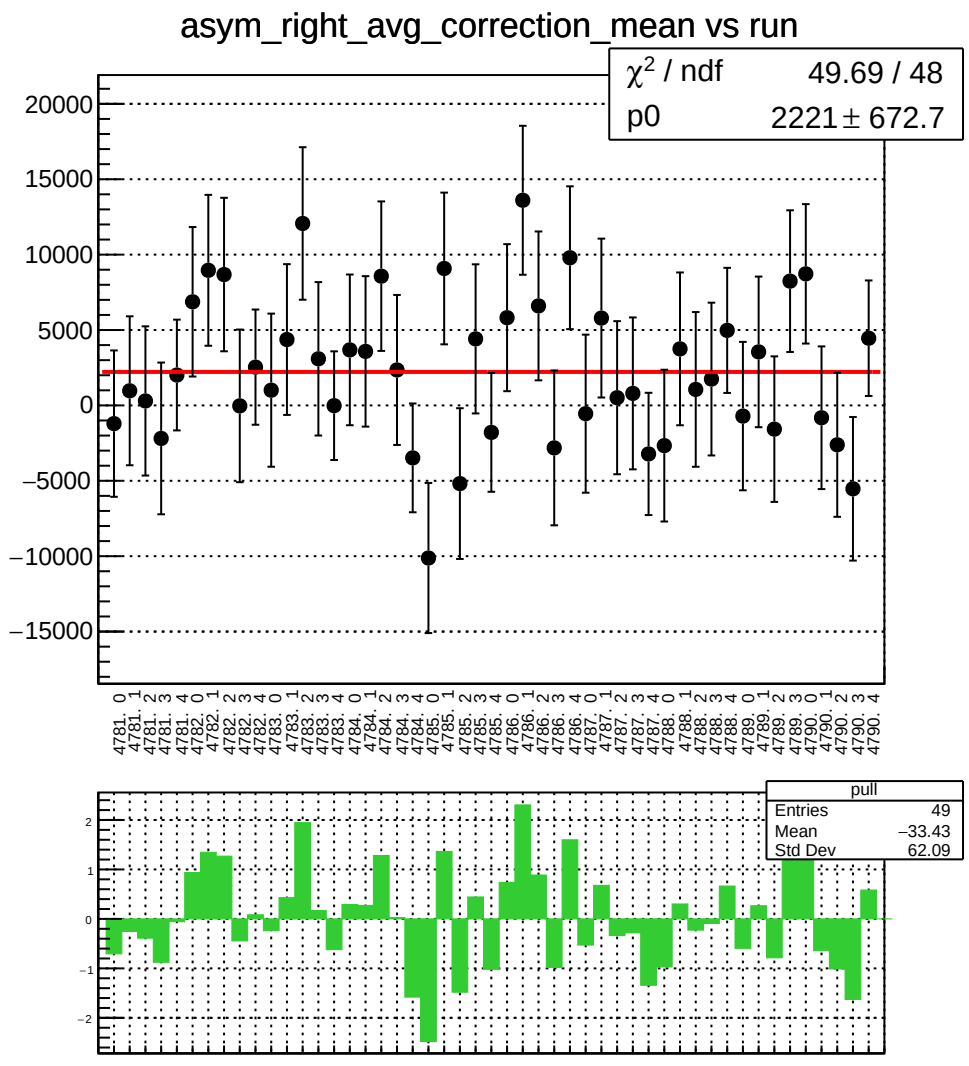

pull1D
Entries 49
Mean 0.0173
Std Dev 1.043
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

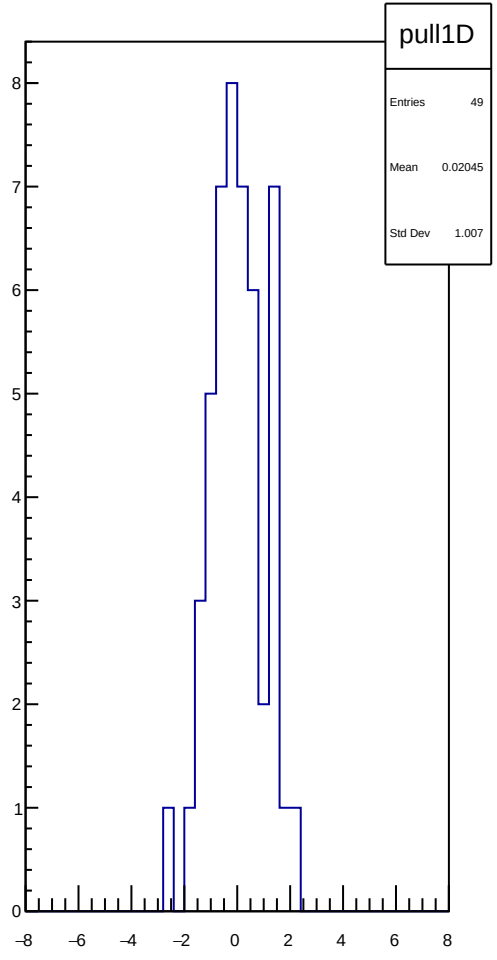

asym_left_dd_rms vs run
χ^2 / ndf 91.78 / 48
p0 29.91 ± 0.0301
30.8
30.6
30.4
30.2
30
29.8
29.6
29.4
29.2
29
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

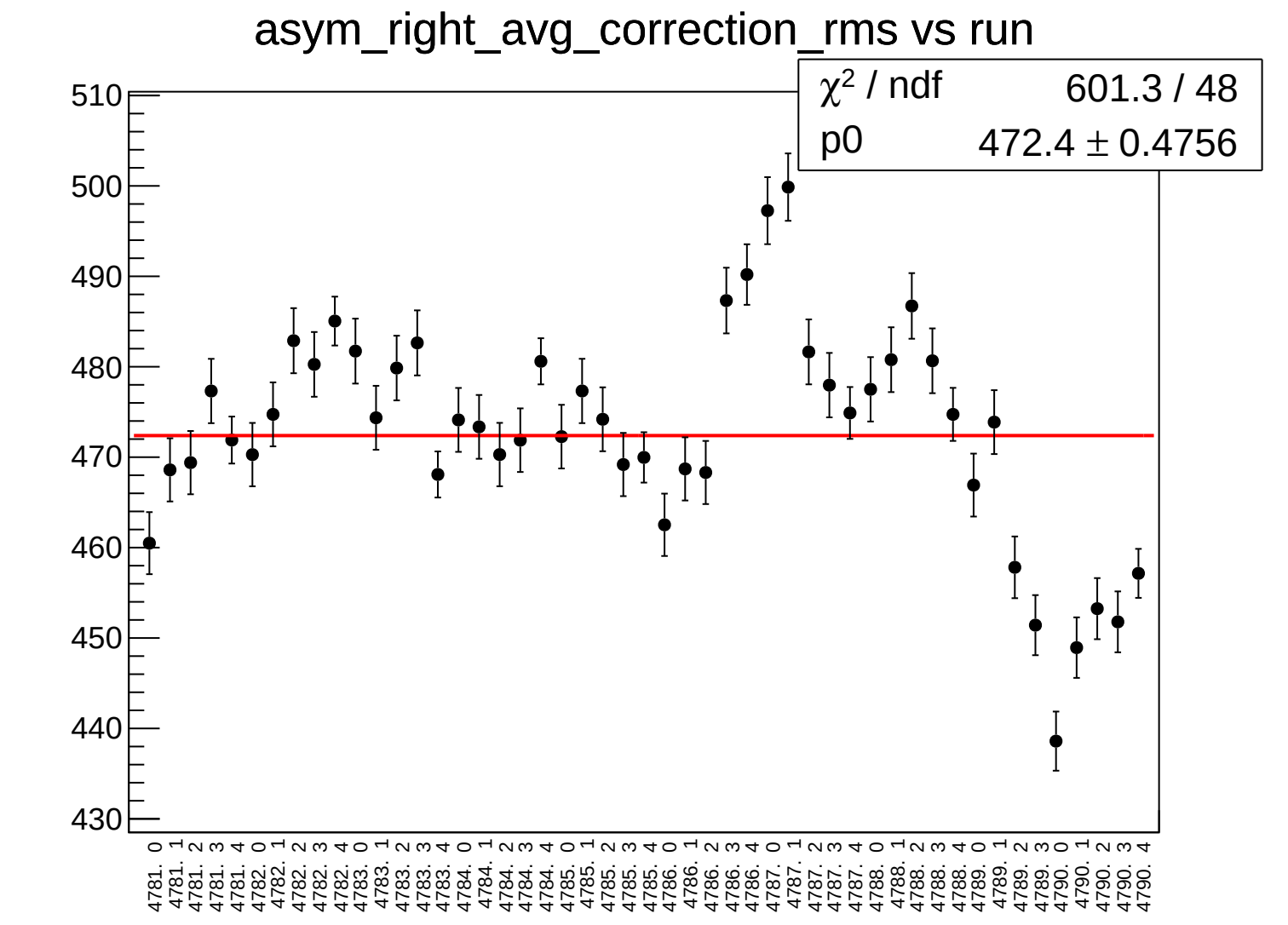

reg_asym_right_avg_mean vs run
χ² / ndf 47.12 / 48
p0 576.1 ± 185
6000
4000
2000
0
−2000
−4000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 178.5
Std Dev 149.2
2
1
0
−1
−2

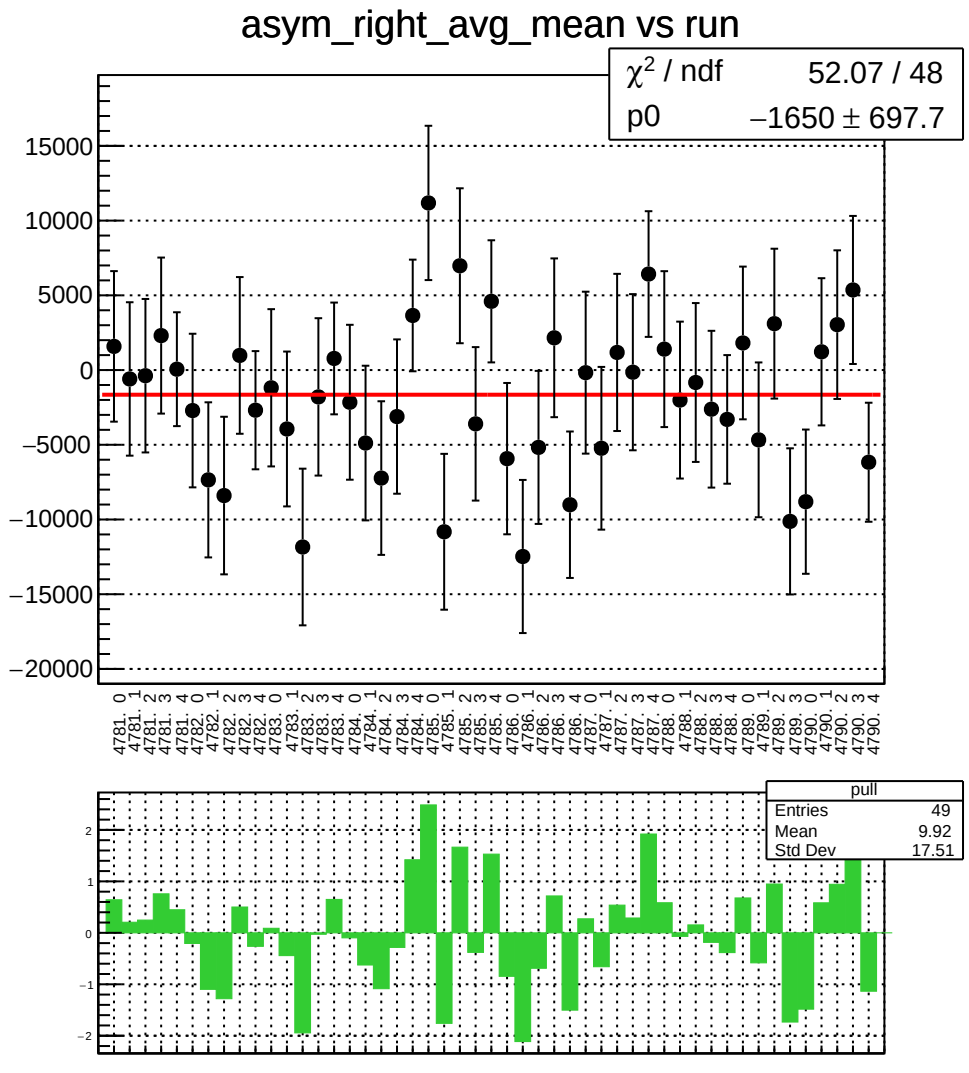

pull1D
Entries 49
Mean −0.01896
Std Dev 0.9805
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

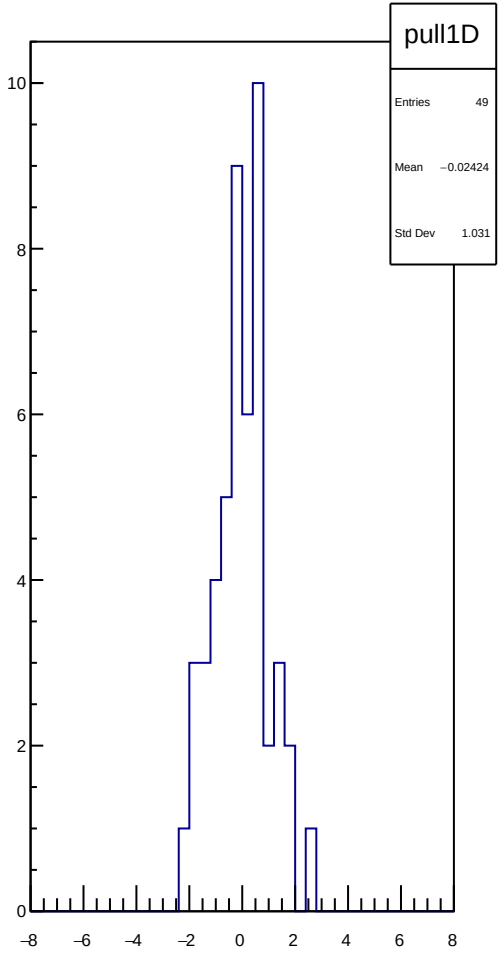

reg_asym_right_avg_rms vs run
χ² / ndf 51.17 / 48
p0 130 ± 0.1308
134
133
132
131
130
129
128
127
126
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

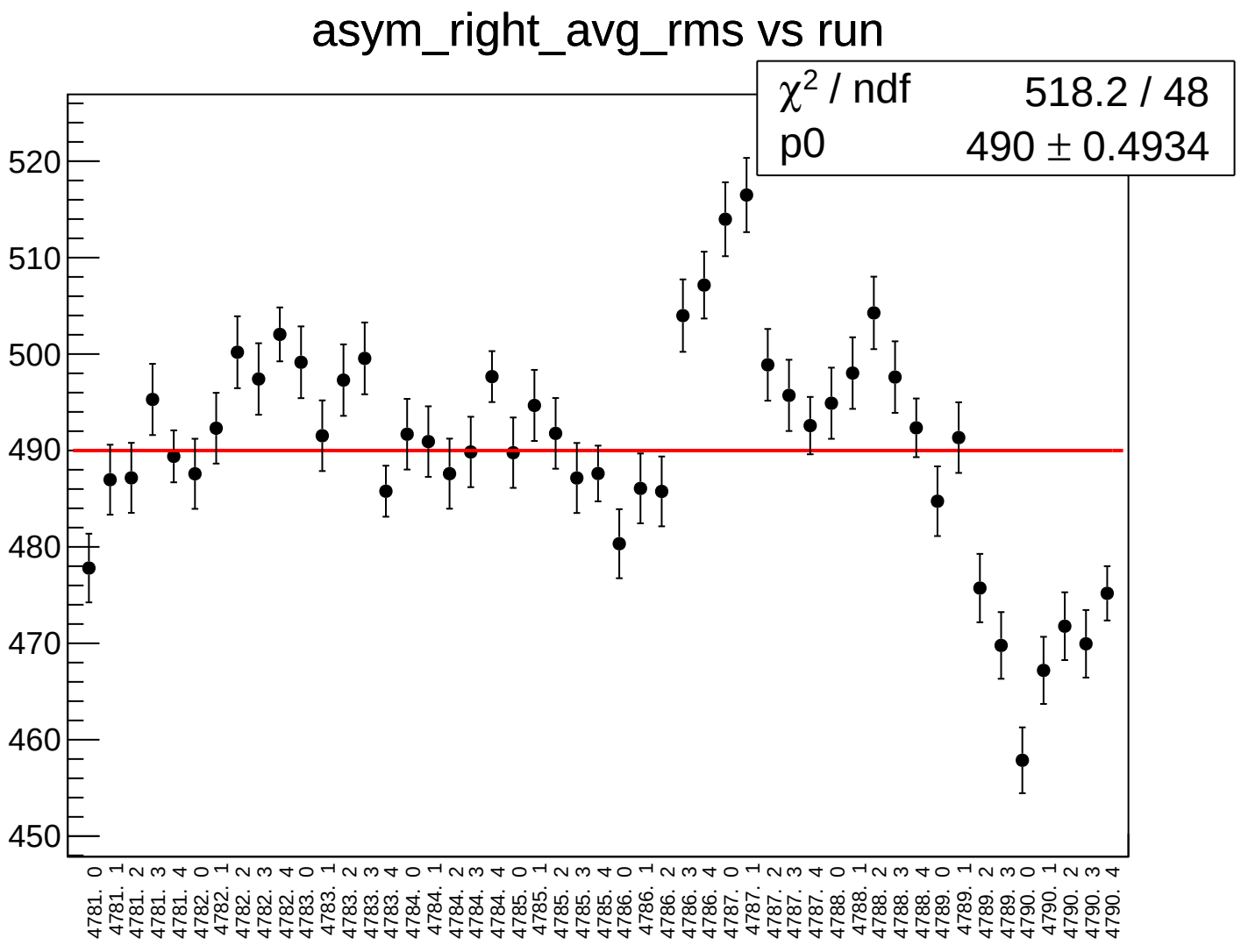

asym_right_avg_correction_mean vs run
χ² / ndf 49.69 / 48
p0 2221 ± 672.7
20000
15000
10000
5000
0
−5000
−10000
−15000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −33.43
Std Dev 62.09
2
1
0
−1
−2

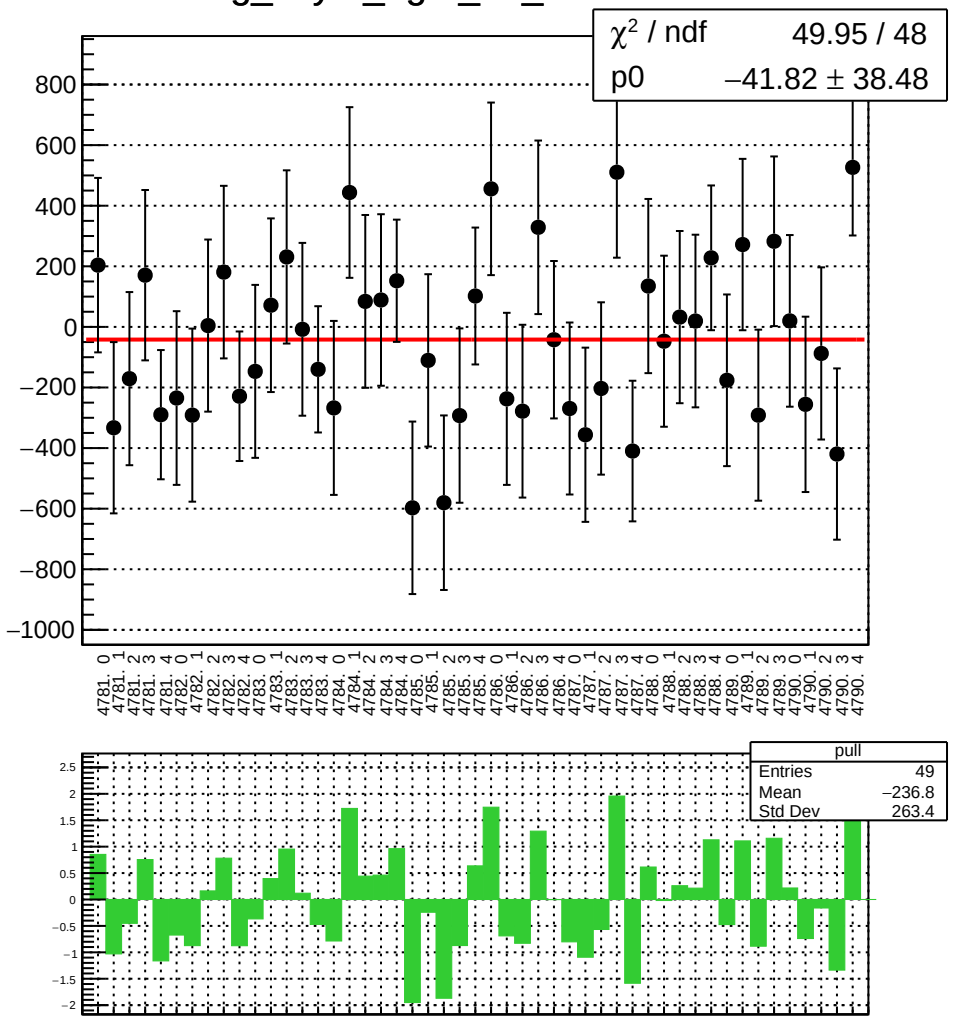

pull1D
Entries 49
Mean 0.02045
Std Dev 1.007
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

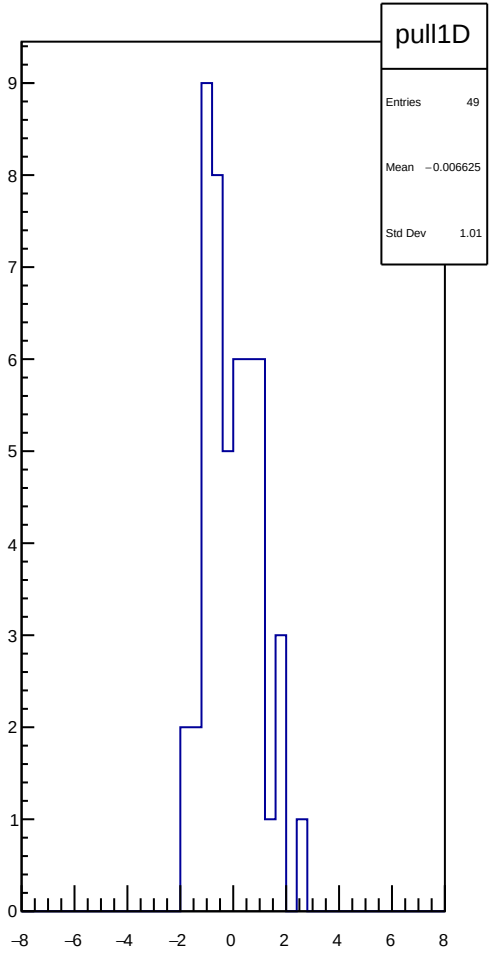

asym_right_avg_correction_rms vs run
χ² / ndf 601.3 / 48
p0 472.4 ± 0.4756
510
500
490
480
470
460
450
440
430
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

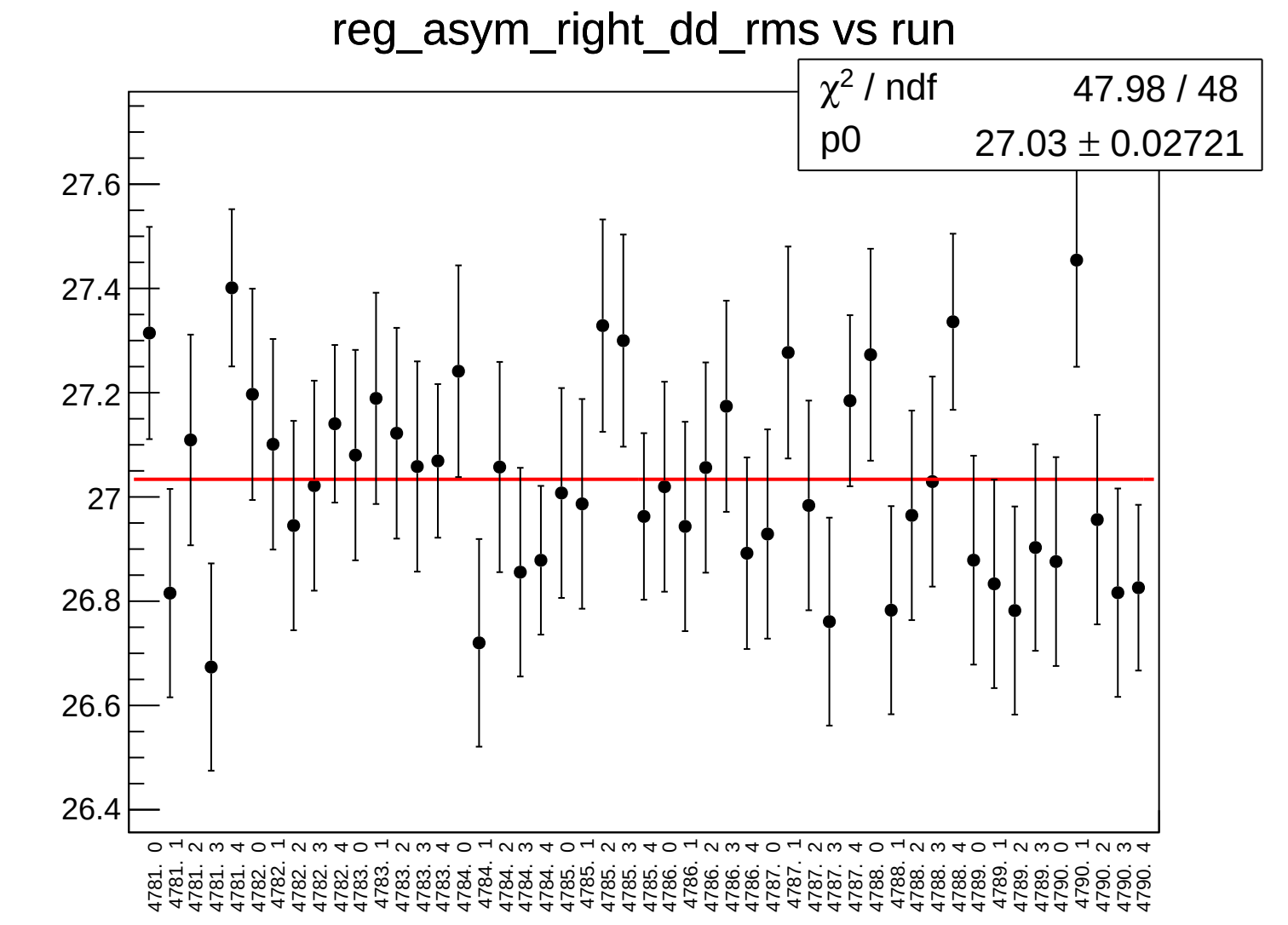

asym_right_avg_mean vs run
χ² / ndf 52.07 / 48
p0 −1650 ± 697.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 9.92
Std Dev 17.51
2
1
0
−1
−2

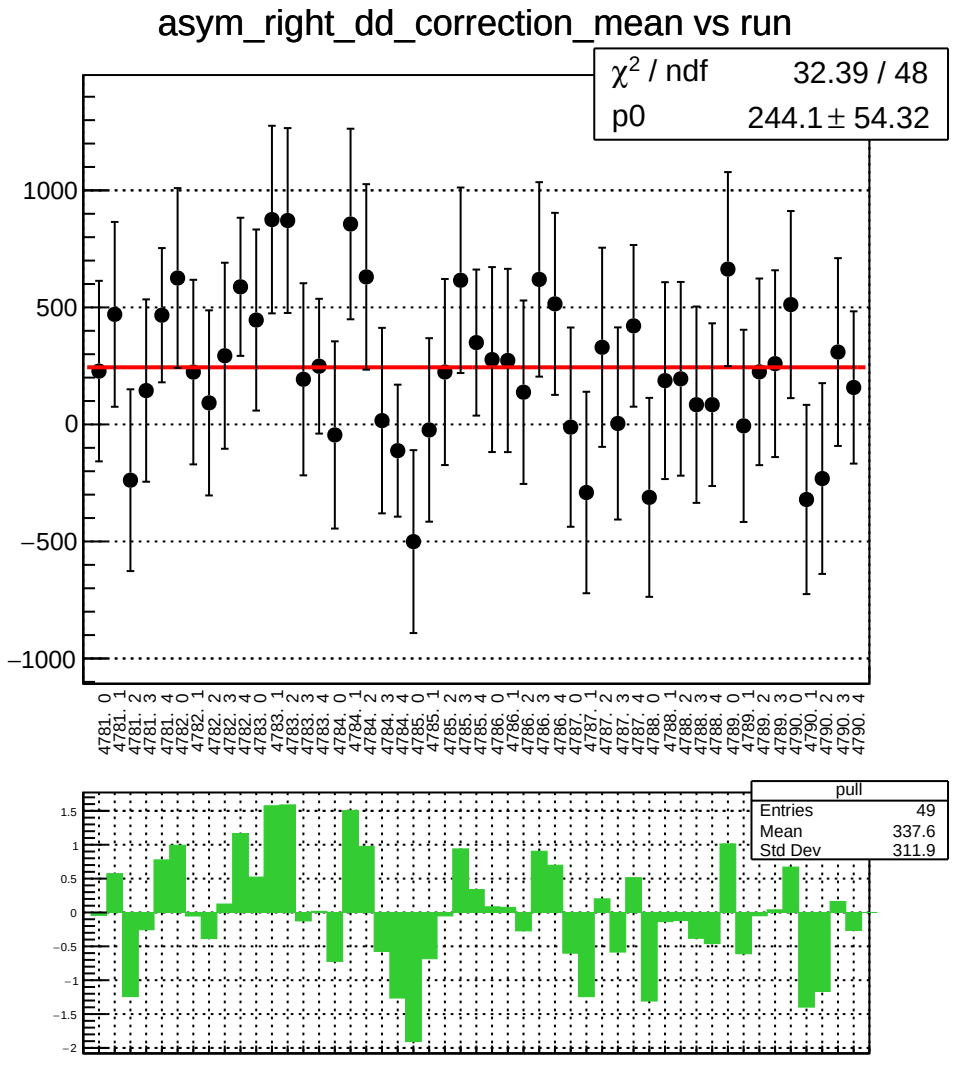

pull1D
Entries 49
Mean −0.02424
Std Dev 1.031
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

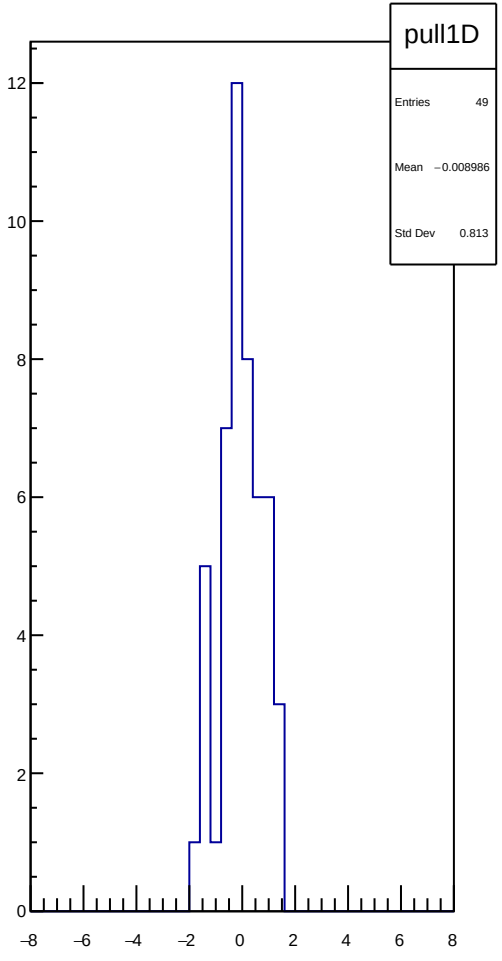

asym_right_avg_rms vs run
χ² / ndf 518.2 / 48
p0 490 ± 0.4934
520
510
500
490
480
470
460
450
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

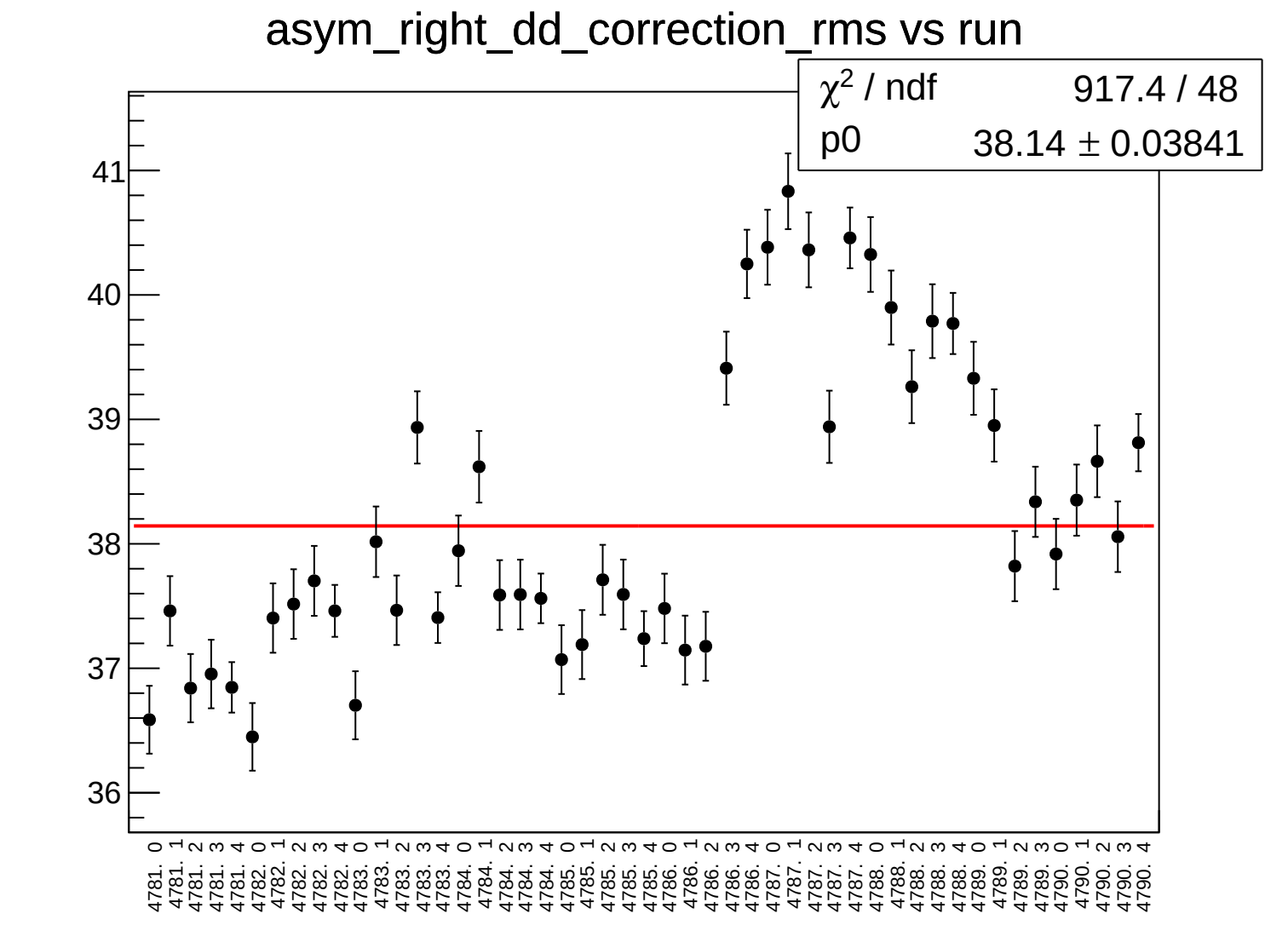

reg_asym_right_dd_mean vs run
χ² / ndf 49.95 / 48
p0 −41.82 ± 38.48
pull
Entries 49
Mean −236.8
Std Dev 263.4

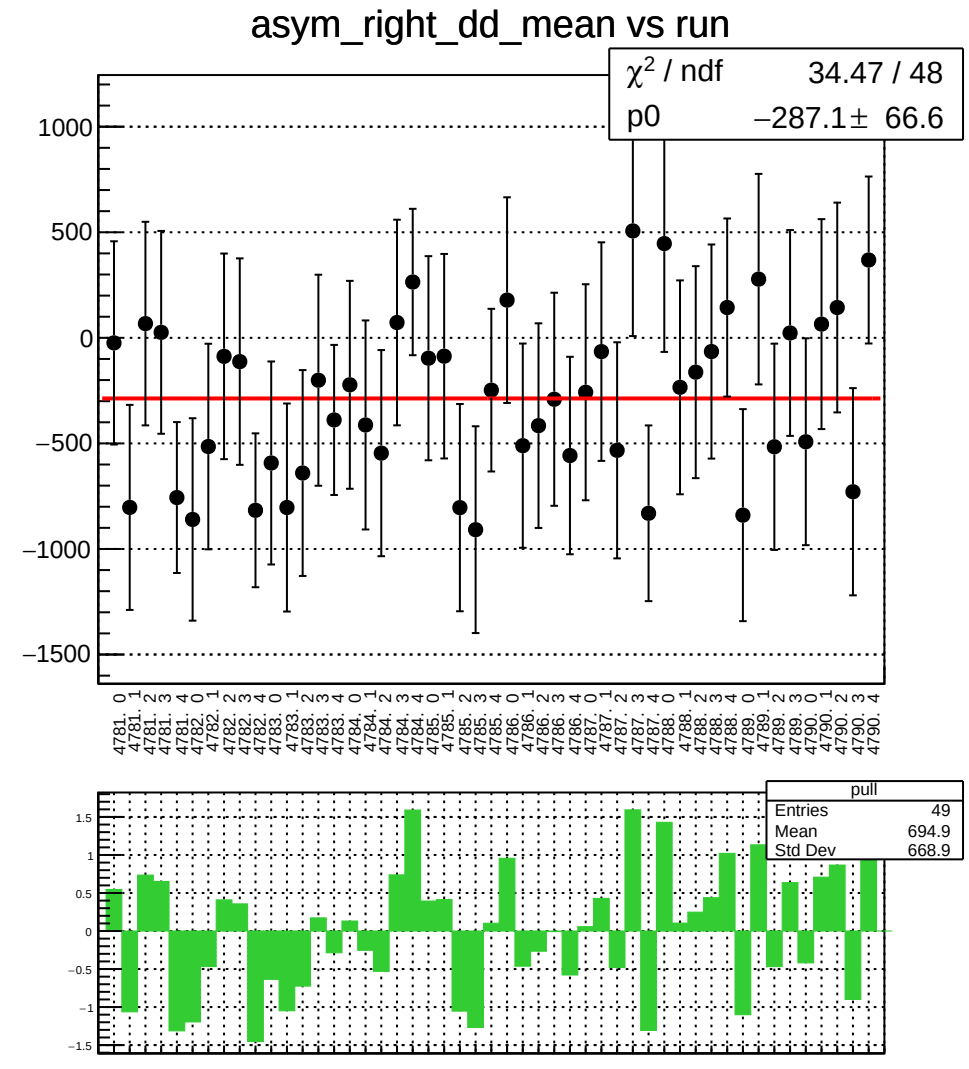

pull1D
Entries 49
Mean −0.006625
Std Dev 1.01

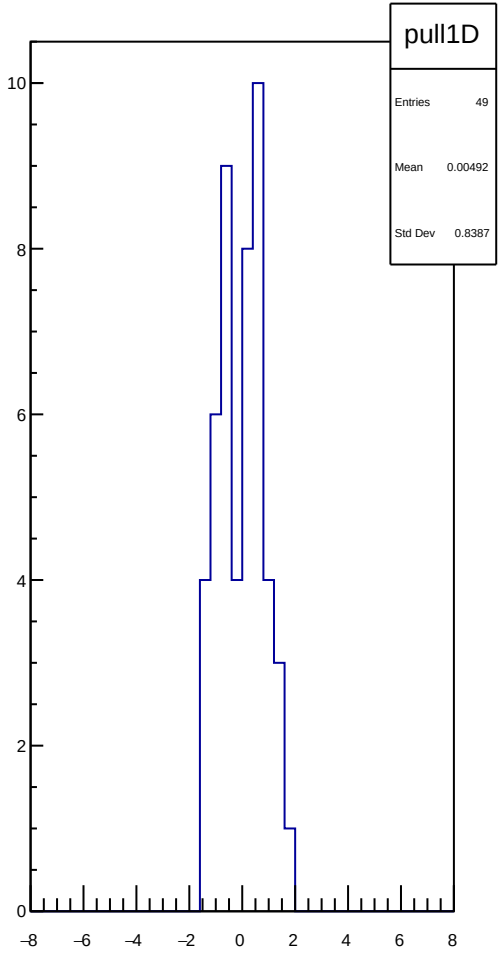

reg_asym_right_dd_rms vs run
χ² / ndf 47.98 / 48
p0 27.03 ± 0.02721
27.6
27.4
27.2
27
26.8
26.6
26.4
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

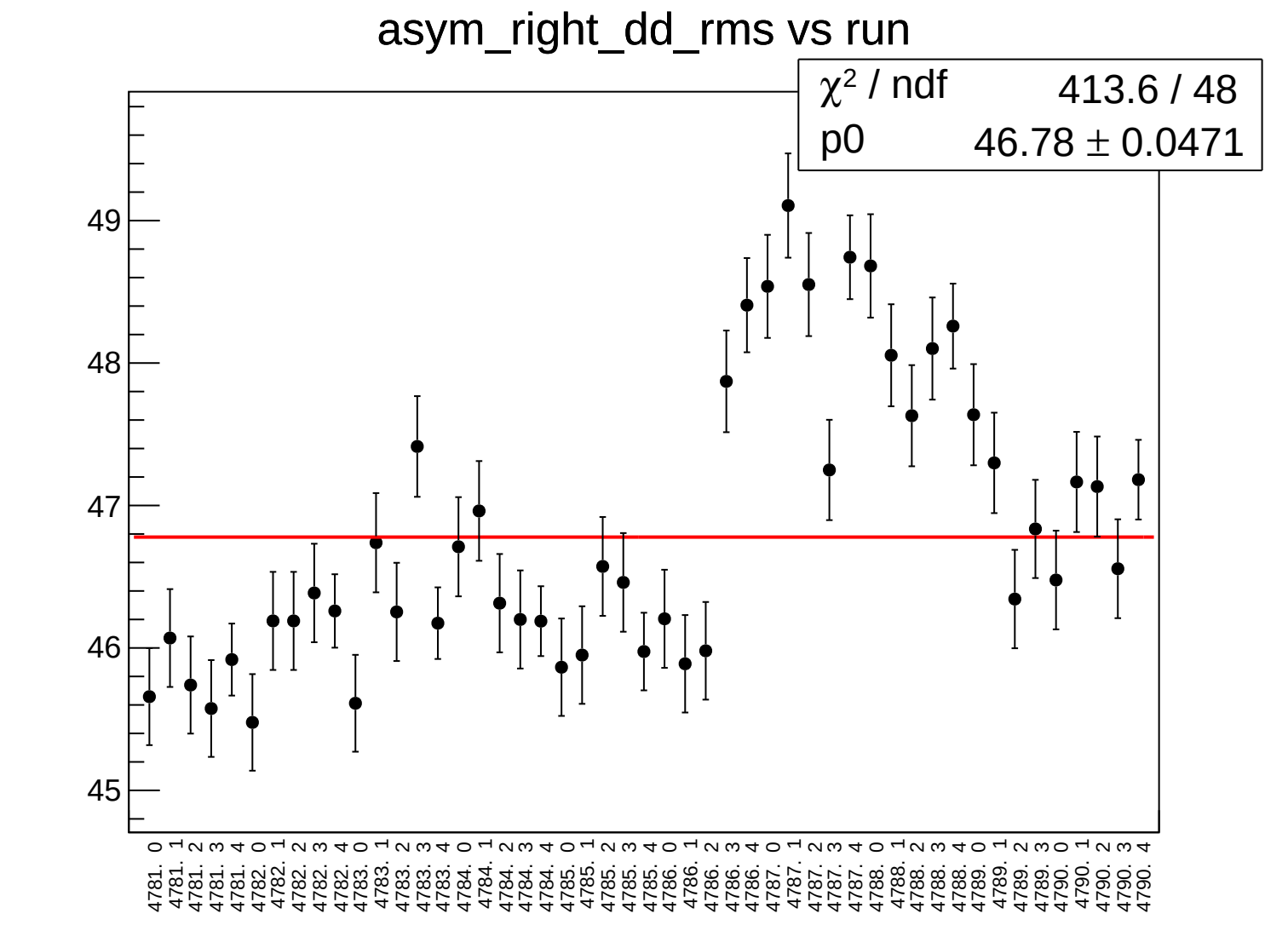

asym_right_dd_correction_mean vs run
χ² / ndf 32.39 / 48
p0 244.1 ± 54.32
1000
500
0
−500
−1000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 337.6
Std Dev 311.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

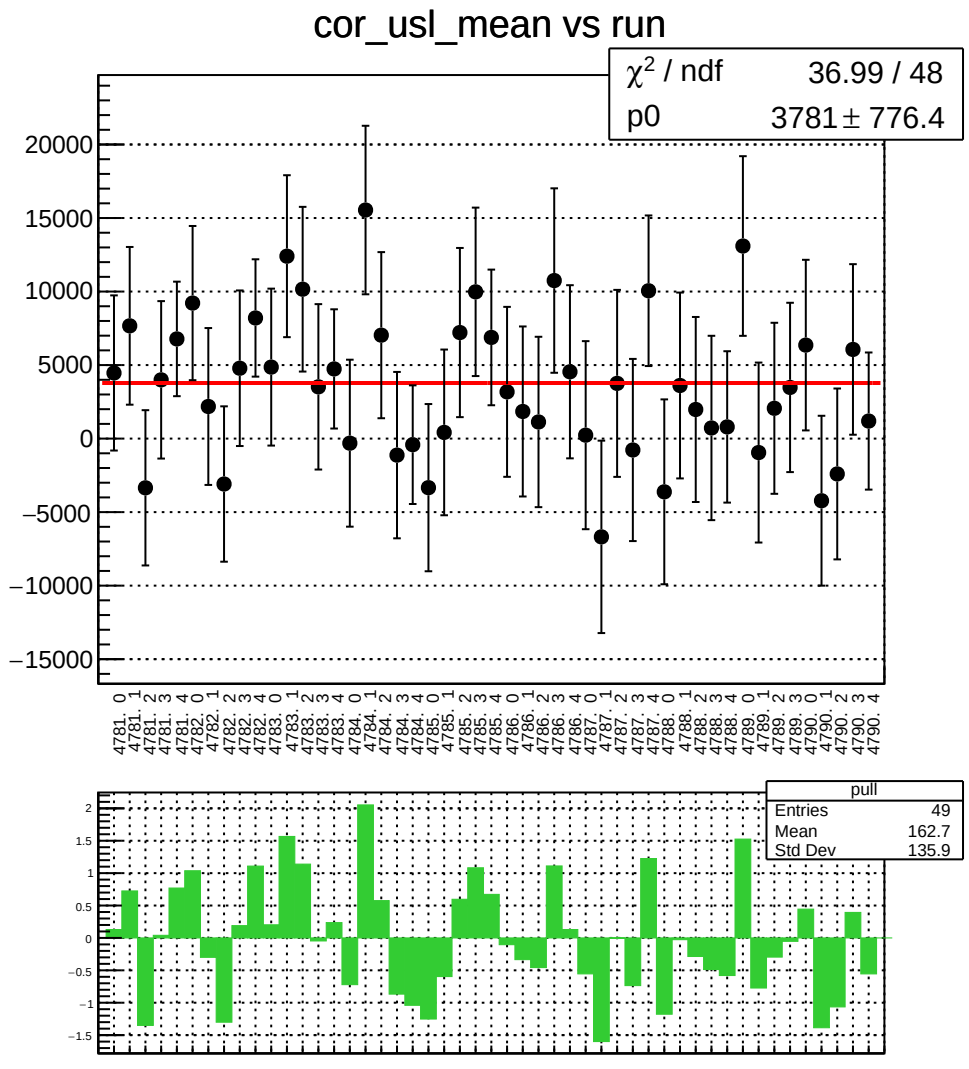

pull1D
Entries 49
Mean −0.008986
Std Dev 0.813
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

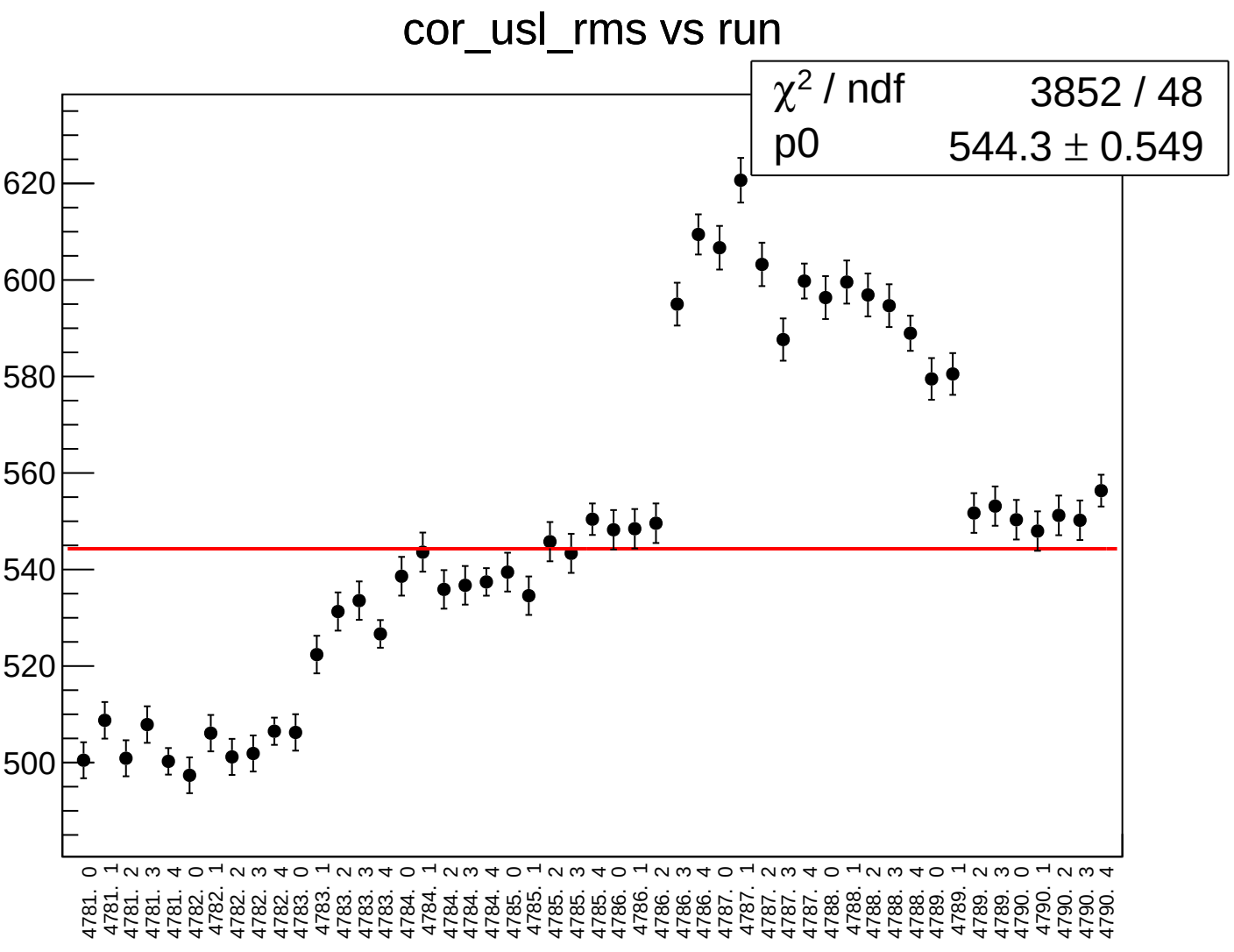

asym_right_dd_correction_rms vs run
χ^2 / ndf 917.4 / 48
p0 38.14 ± 0.03841
41
40
39
38
37
36
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

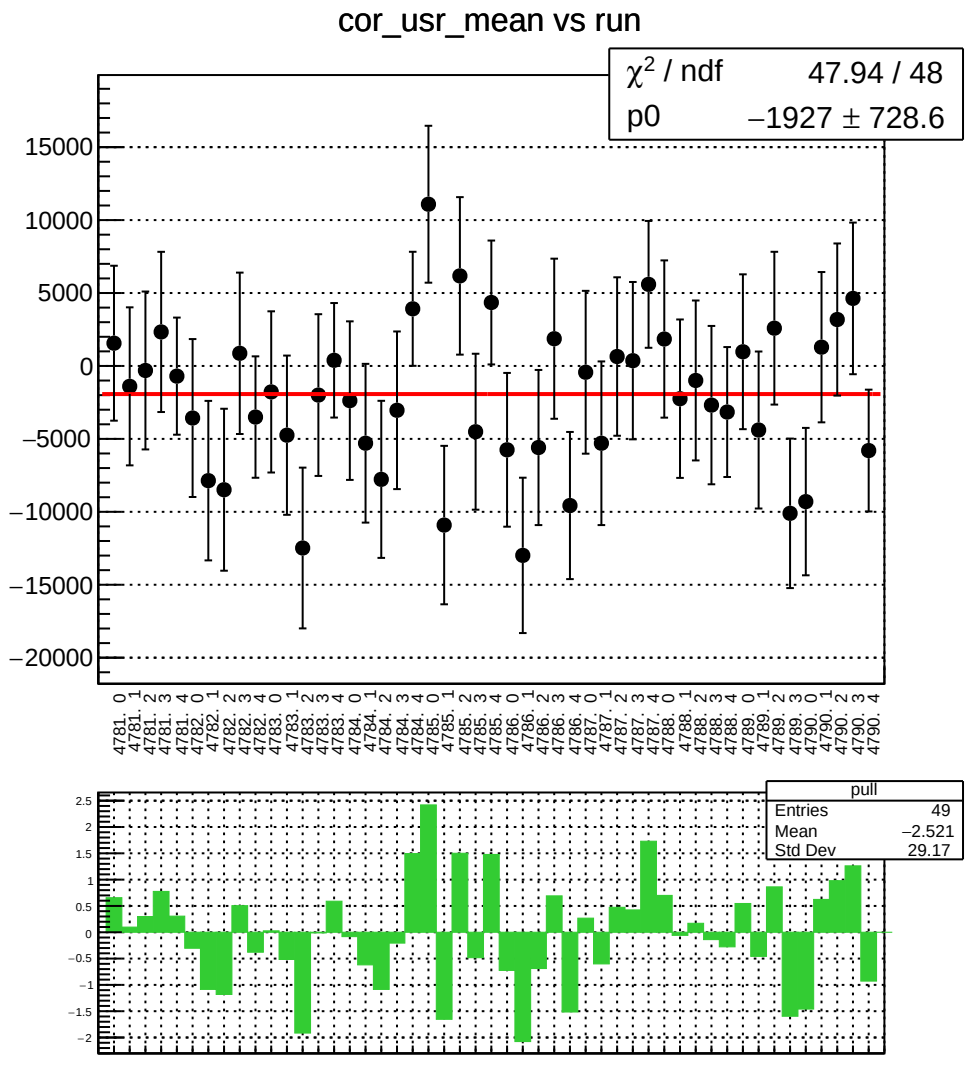

asym_right_dd_mean vs run
χ² / ndf 34.47 / 48
p0 −287.1± 66.6
1000
500
0
−500
−1000
−1500
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 694.9
Std Dev 668.9
1.5
1
0.5
0
−0.5
−1
−1.5

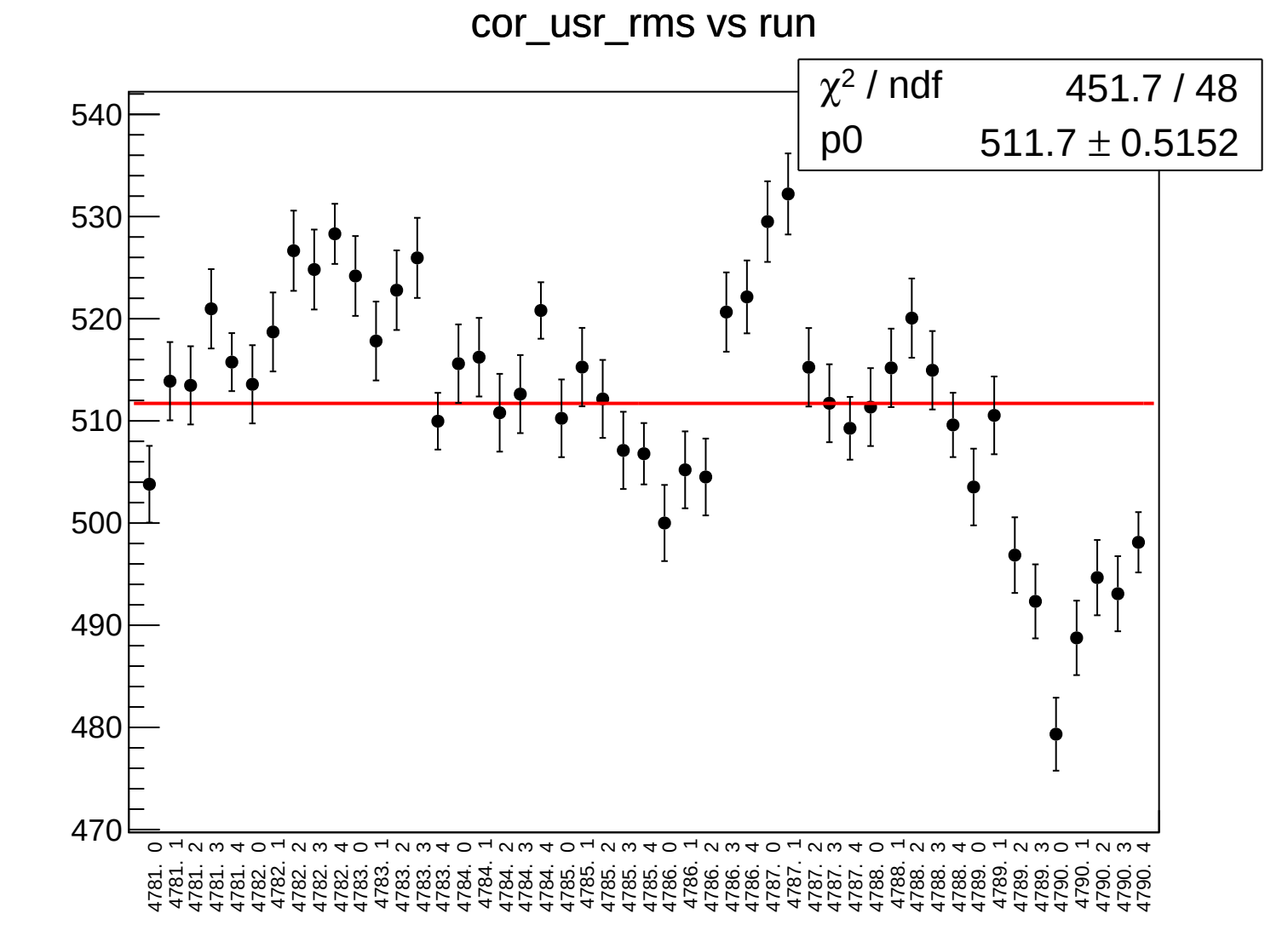

pull1D
Entries 49
Mean 0.00492
Std Dev 0.8387
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

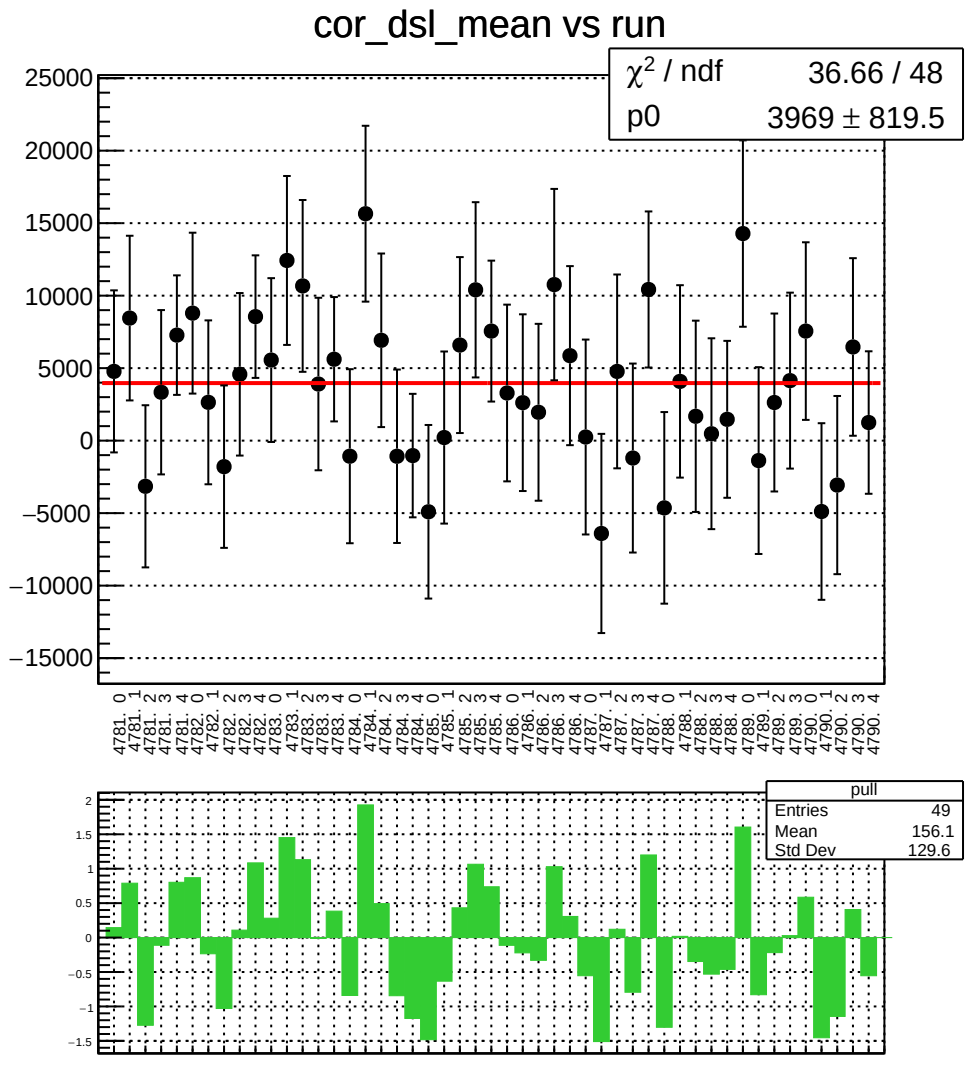

asym_right_dd_rms vs run
χ² / ndf 413.6 / 48
p0 46.78 ± 0.0471
49
48
47
46
45
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

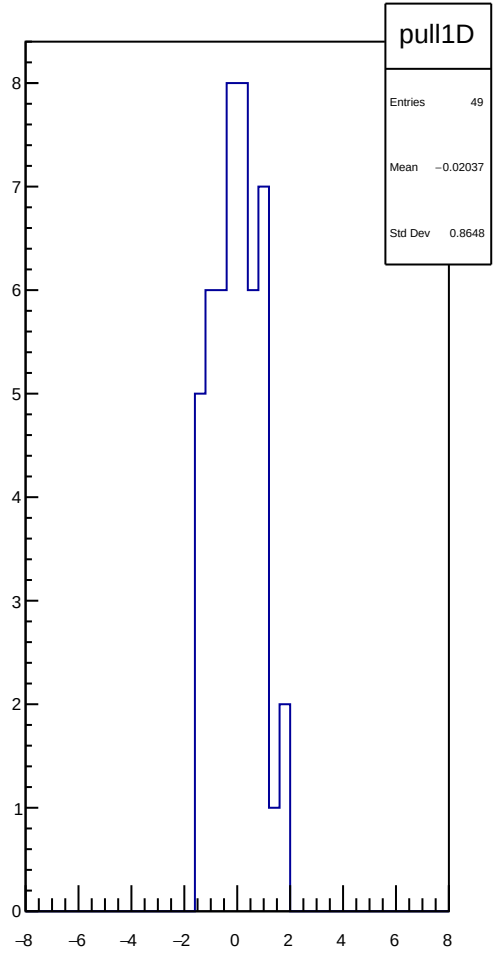

cor_usl_mean vs run
χ² / ndf 36.99 / 48
p0 3781 ± 776.4
20000
15000
10000
5000
0
−5000
−10000
−15000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 162.7
Std Dev 135.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 49
Mean −0.0203
Std Dev 0.8686
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

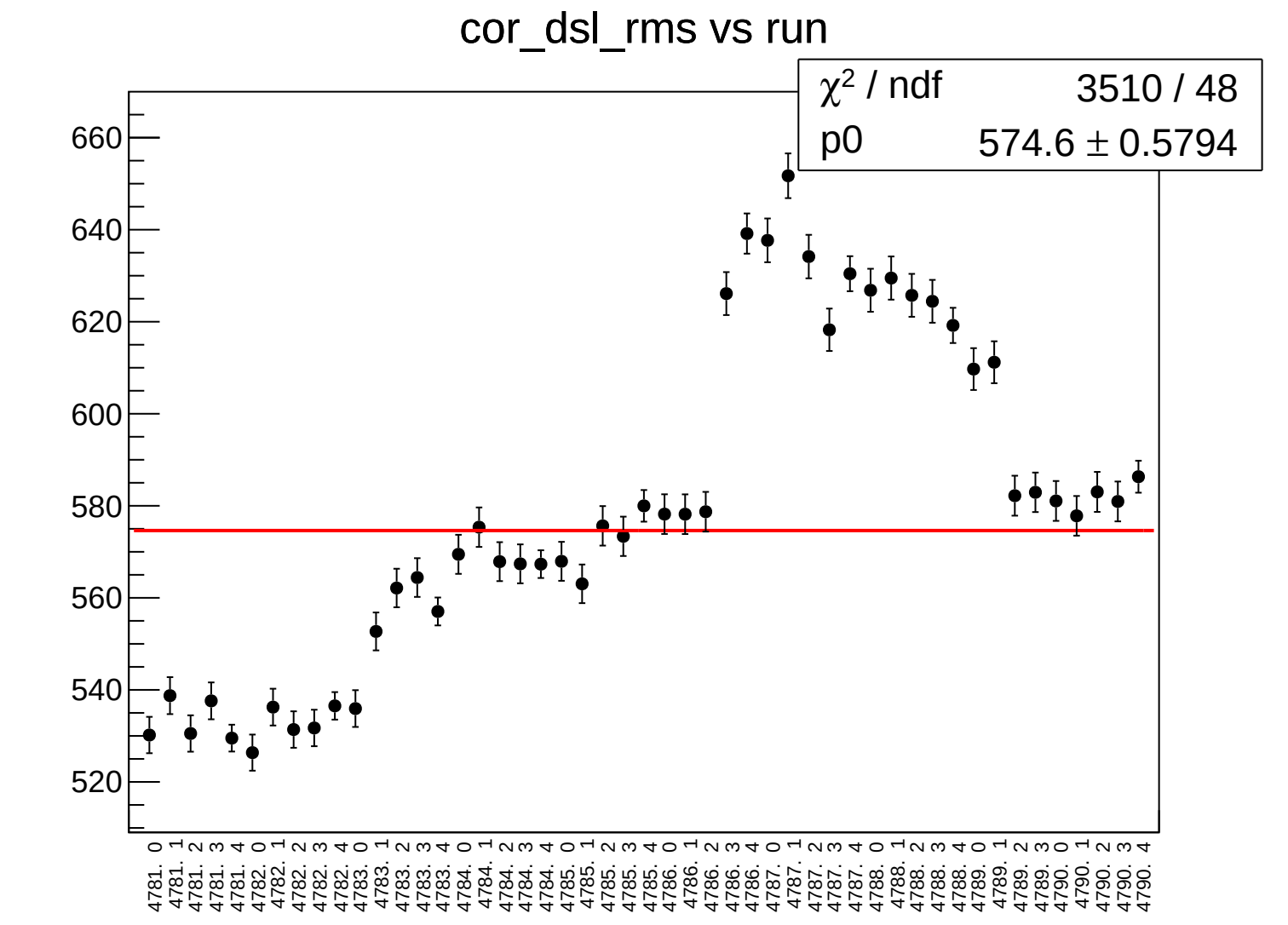

cor_usl_rms vs run
χ² / ndf 3852 / 48
p0 544.3 ± 0.549
620
600
580
560
540
520
500
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

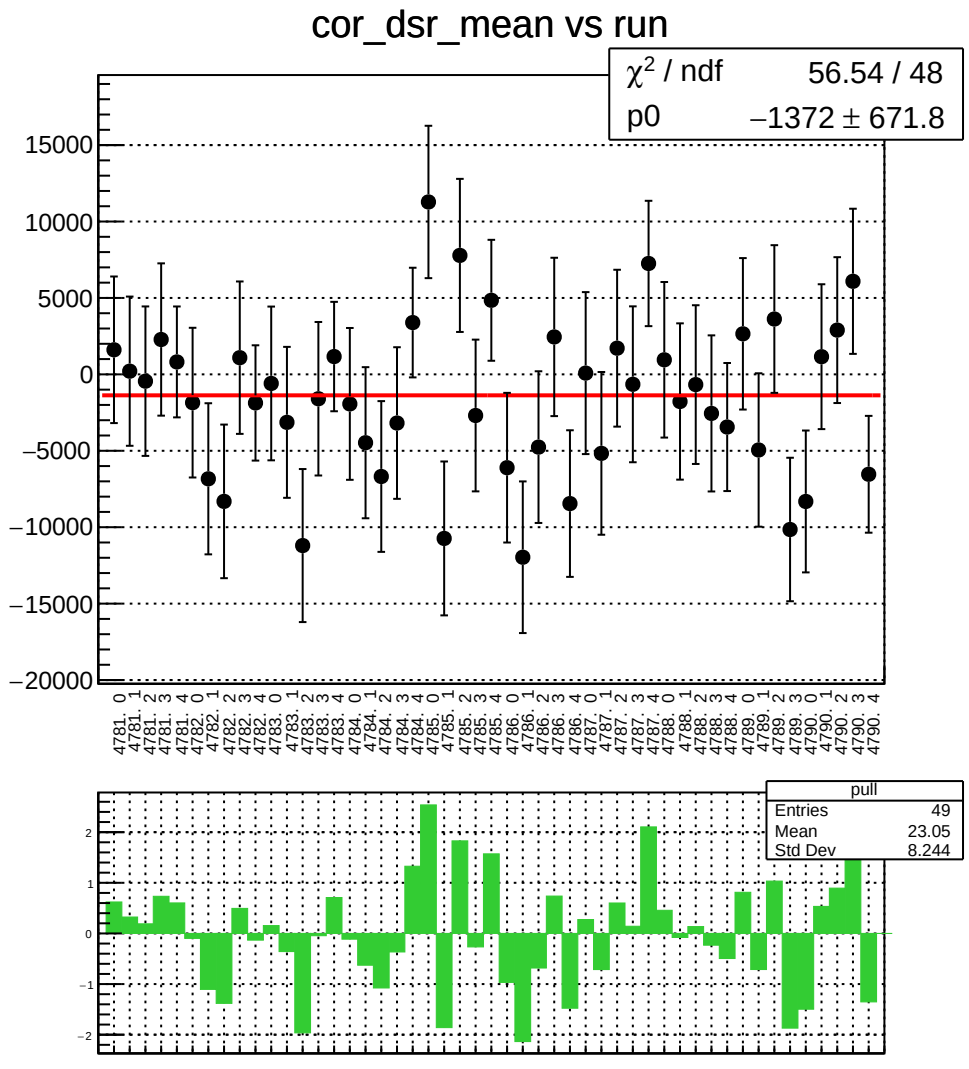

cor_usr_mean vs run
χ² / ndf 47.94 / 48
p0 −1927 ± 728.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −2.521
Std Dev 29.17
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean −0.02376
Std Dev 0.9889
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

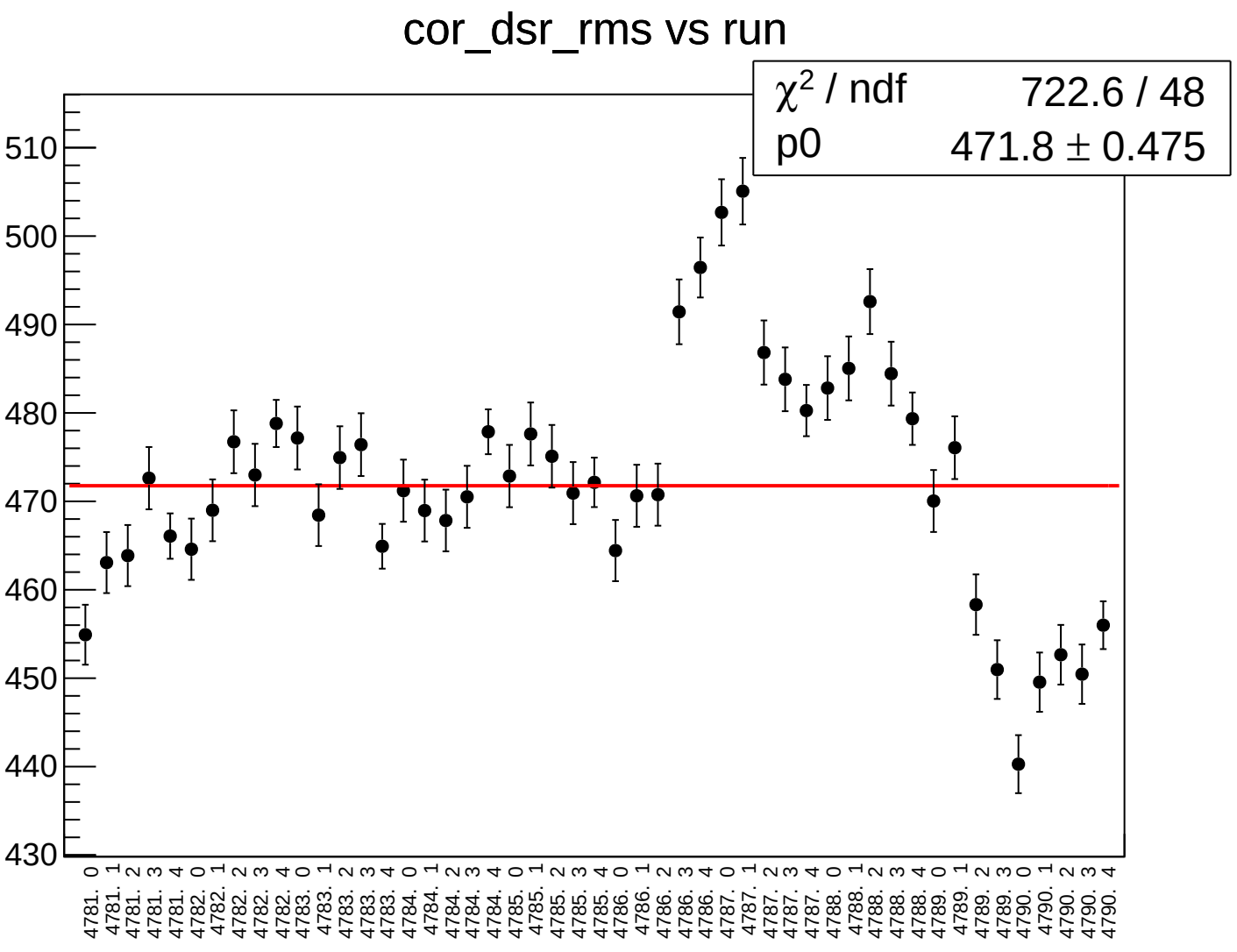

cor_usr_rms vs run
χ² / ndf 451.7 / 48
p0 511.7 ± 0.5152
540
530
520
510
500
490
480
470
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

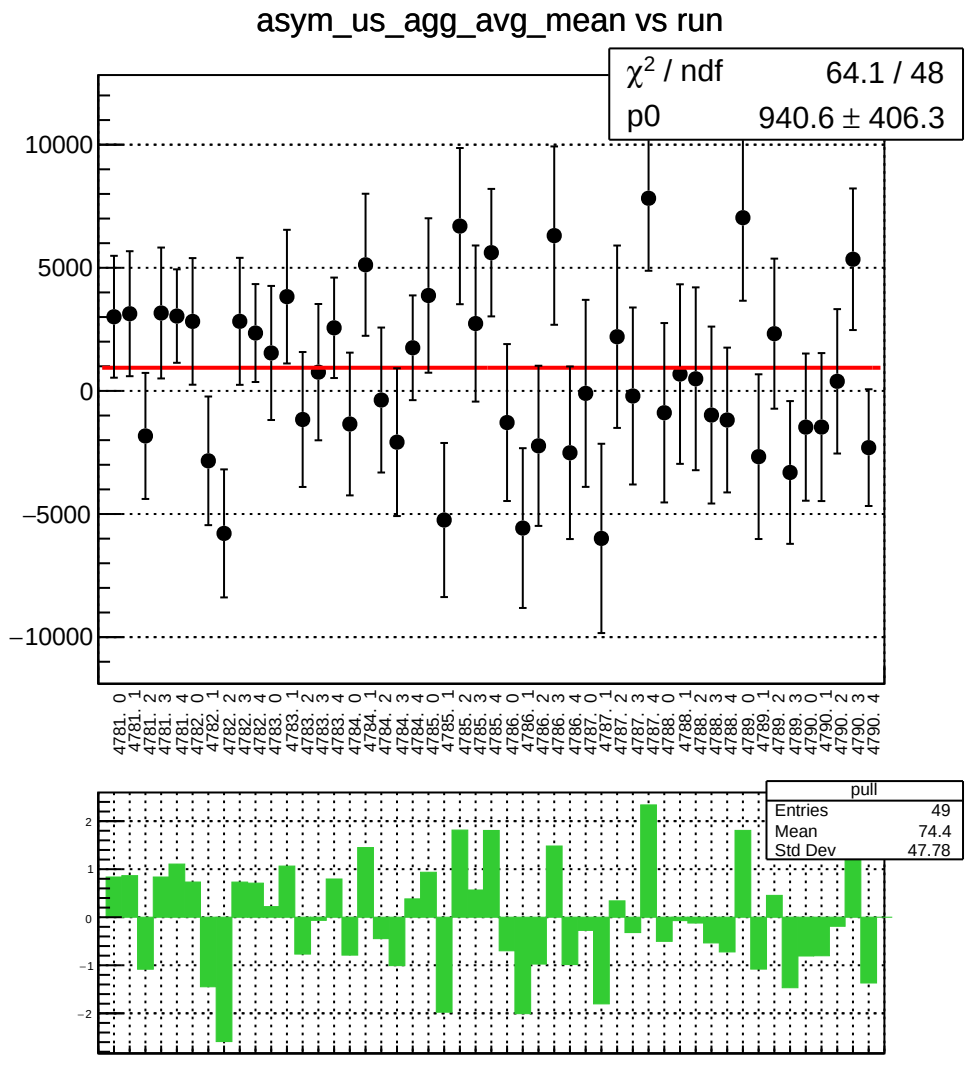

cor_dsl_mean vs run
χ² / ndf 36.66 / 48
p0 3969 ± 819.5
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 156.1
Std Dev 129.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

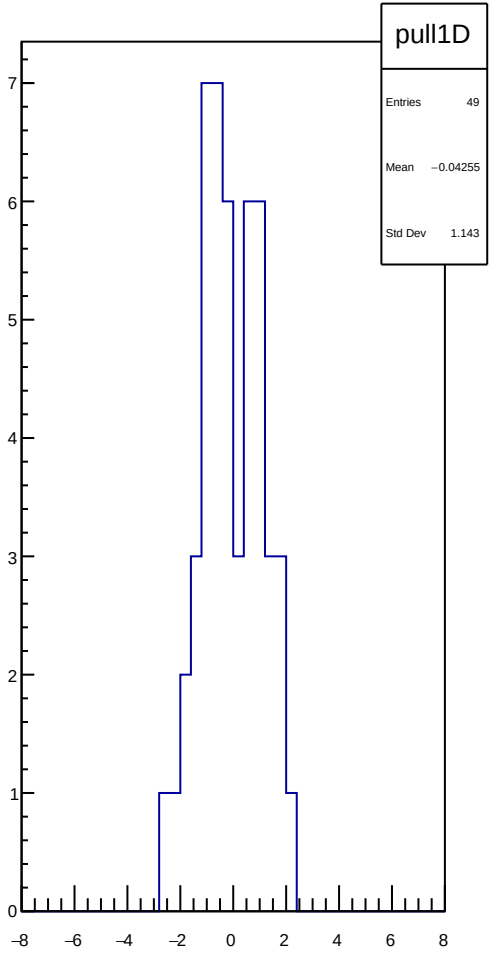

pull1D
Entries 49
Mean −0.02037
Std Dev 0.8648
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

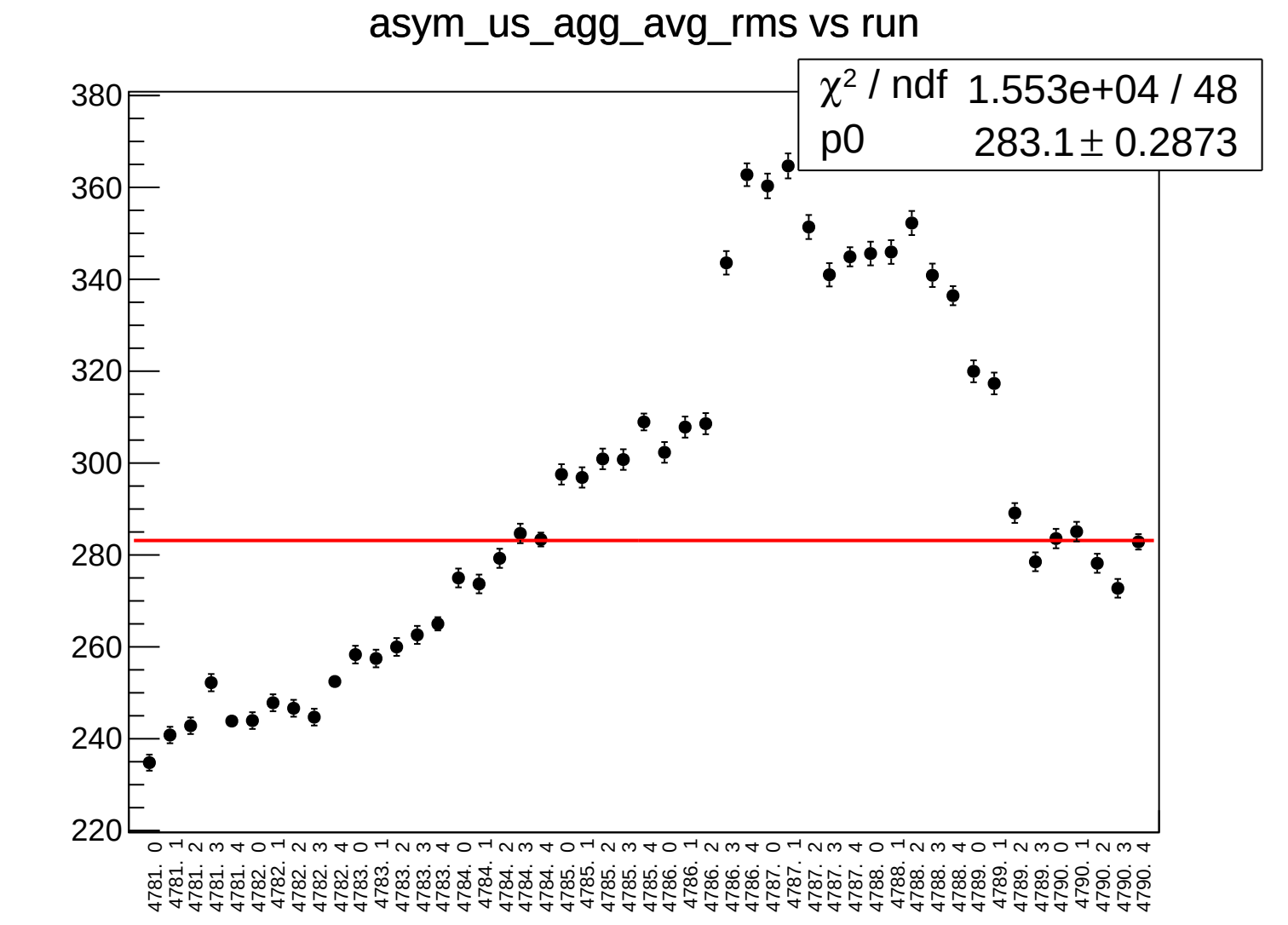

cor_dsl_rms vs run
χ² / ndf 3510 / 48
p0 574.6 ± 0.5794
660
640
620
600
580
560
540
520
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

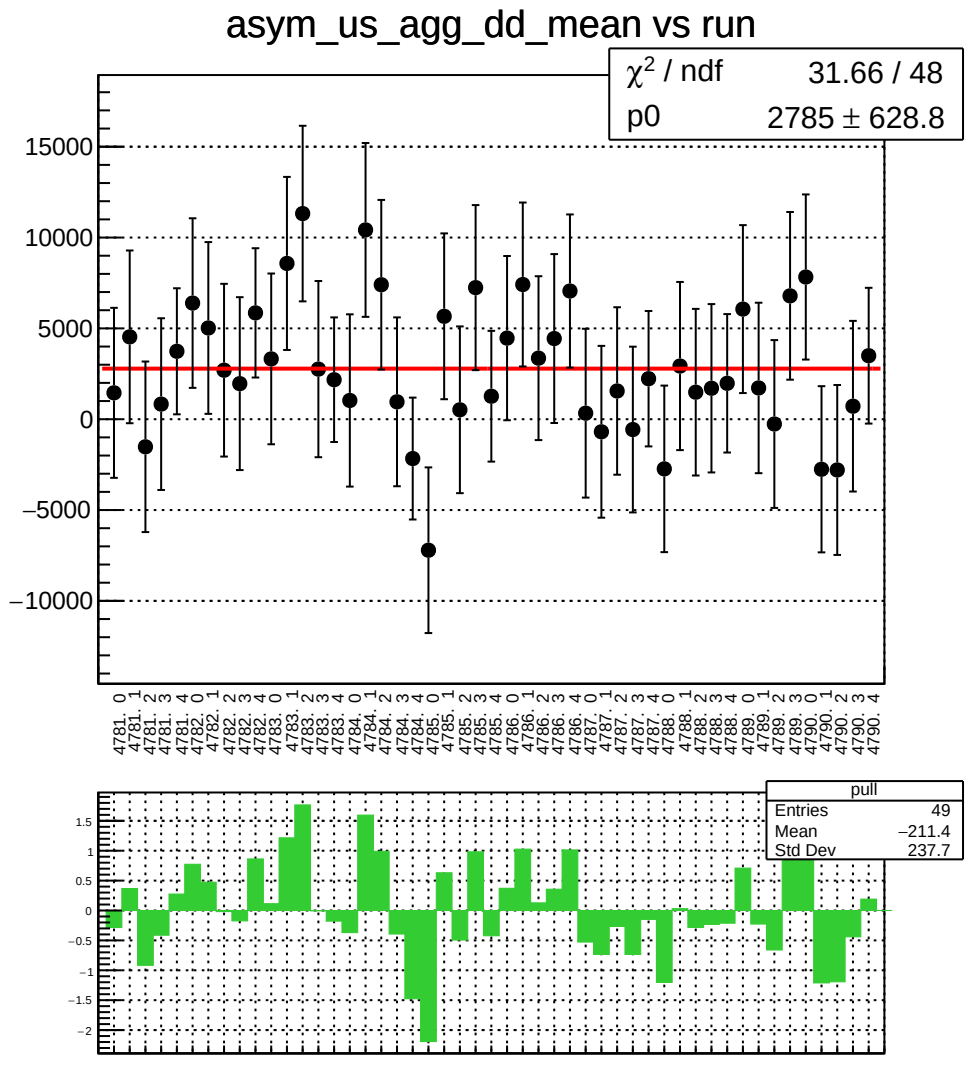

cor_dsr_mean vs run
χ² / ndf 56.54 / 48
p0 −1372 ± 671.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 23.05
Std Dev 8.244
2
1
0
−1
−2
pull1D
Entries 49
Mean −0.02472
Std Dev 1.074
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

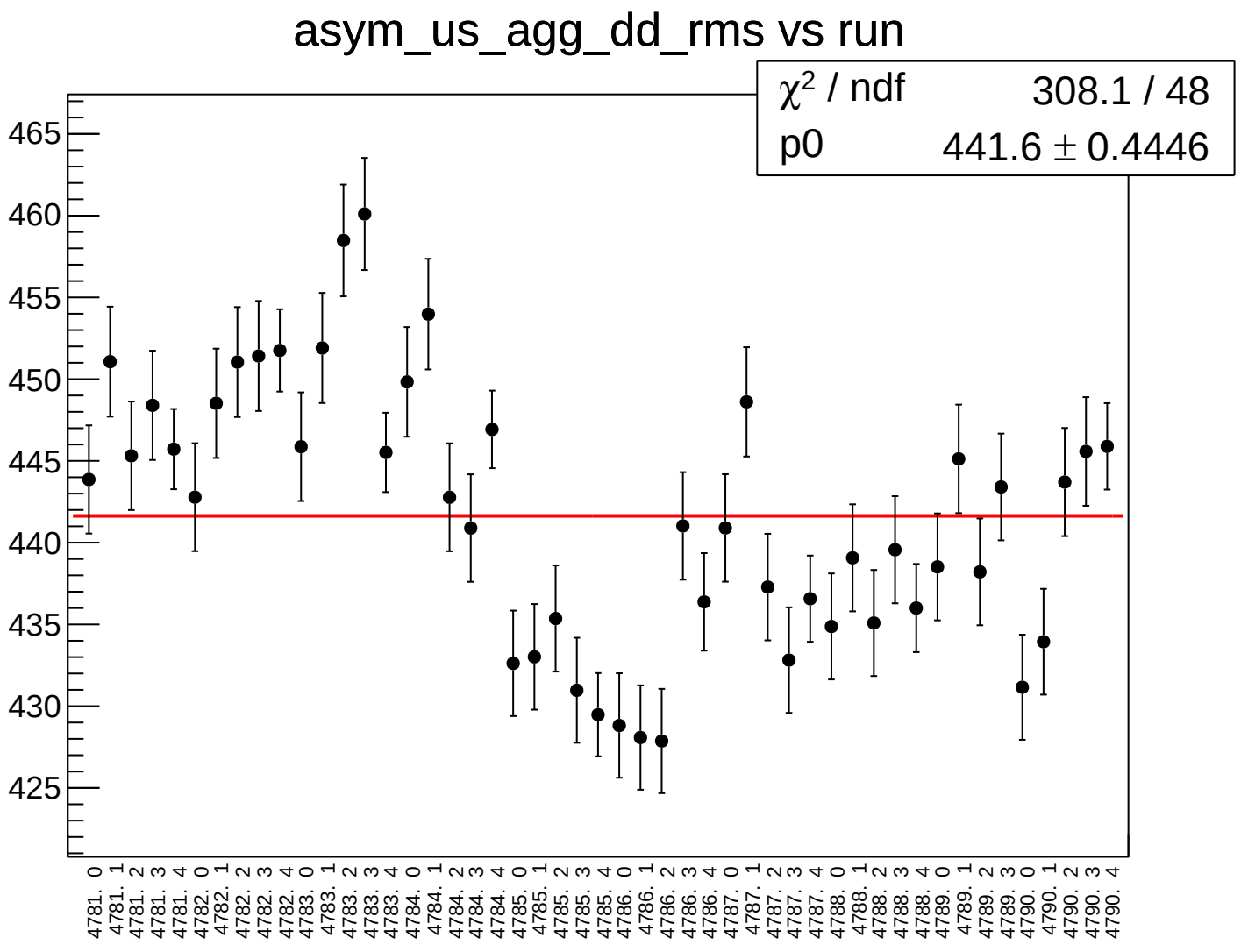

cor_dsr_rms vs run
χ² / ndf 722.6 / 48
p0 471.8 ± 0.475
510
500
490
480
470
460
450
440
430
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


asym_us_agg_avg_mean vs run
χ² / ndf 64.1 / 48
p0 940.6 ± 406.3
10000
5000
0
−5000
−10000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 74.4
Std Dev 47.78
2
1
0
−1
−2


pull1D
Entries 49
Mean −0.04255
Std Dev 1.143
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 1.553e+04 / 48
p0 283.1 ± 0.2873
380
360
340
320
300
280
260
240
220
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


asym_us_agg_dd_mean vs run
χ² / ndf 31.66 / 48
p0 2785 ± 628.8
15000
10000
5000
0
−5000
−10000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −211.4
Std Dev 237.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean 0.008915
Std Dev 0.8038
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_agg_dd_rms vs run
χ² / ndf 308.1 / 48
p0 441.6 ± 0.4446
465
460
455
450
445
440
435
430
425
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
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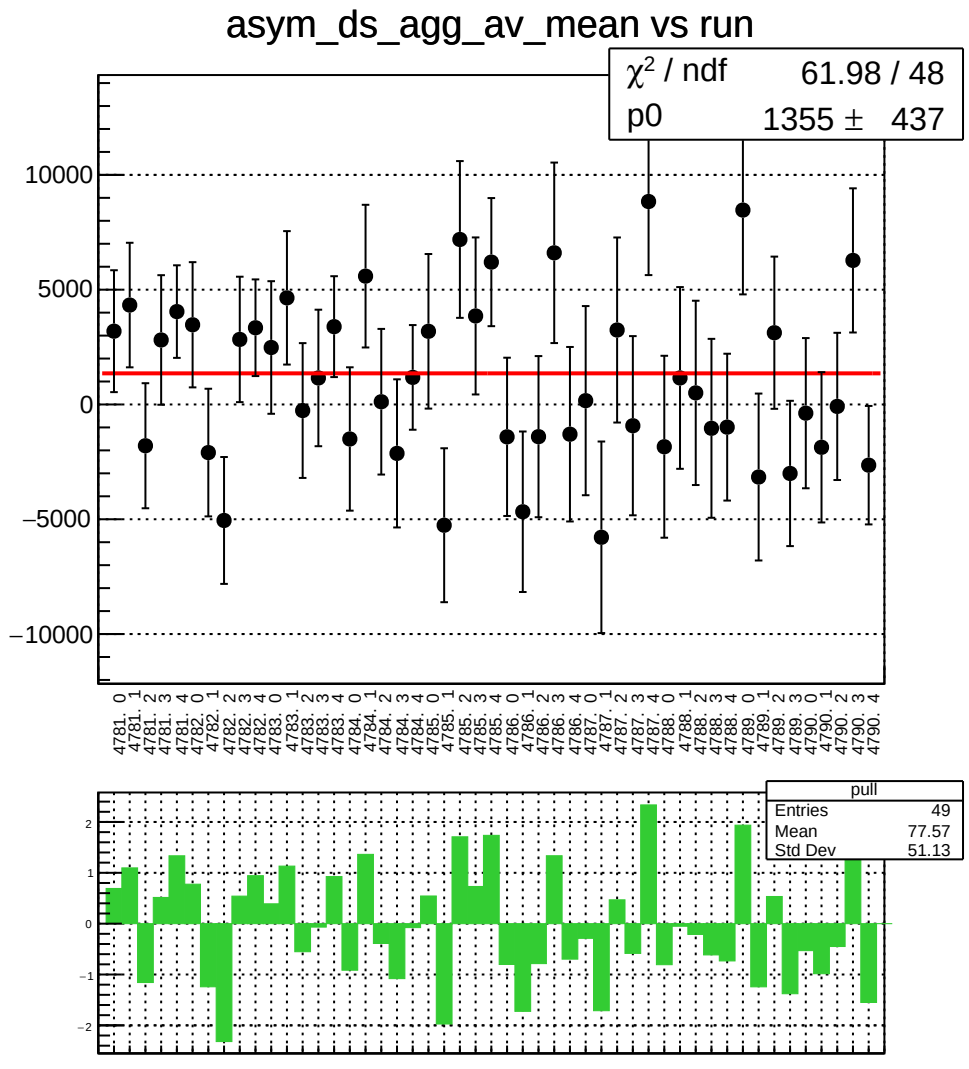
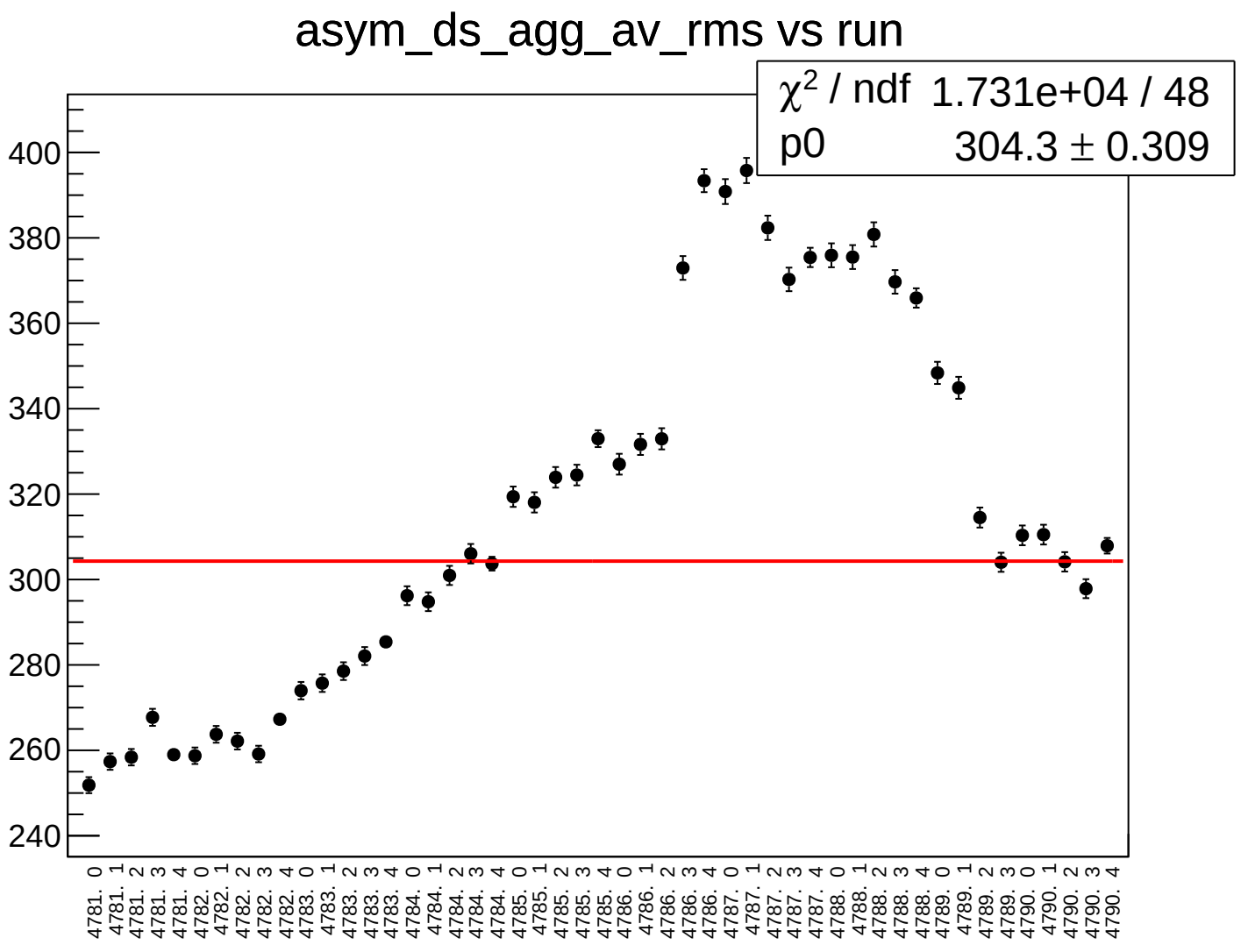
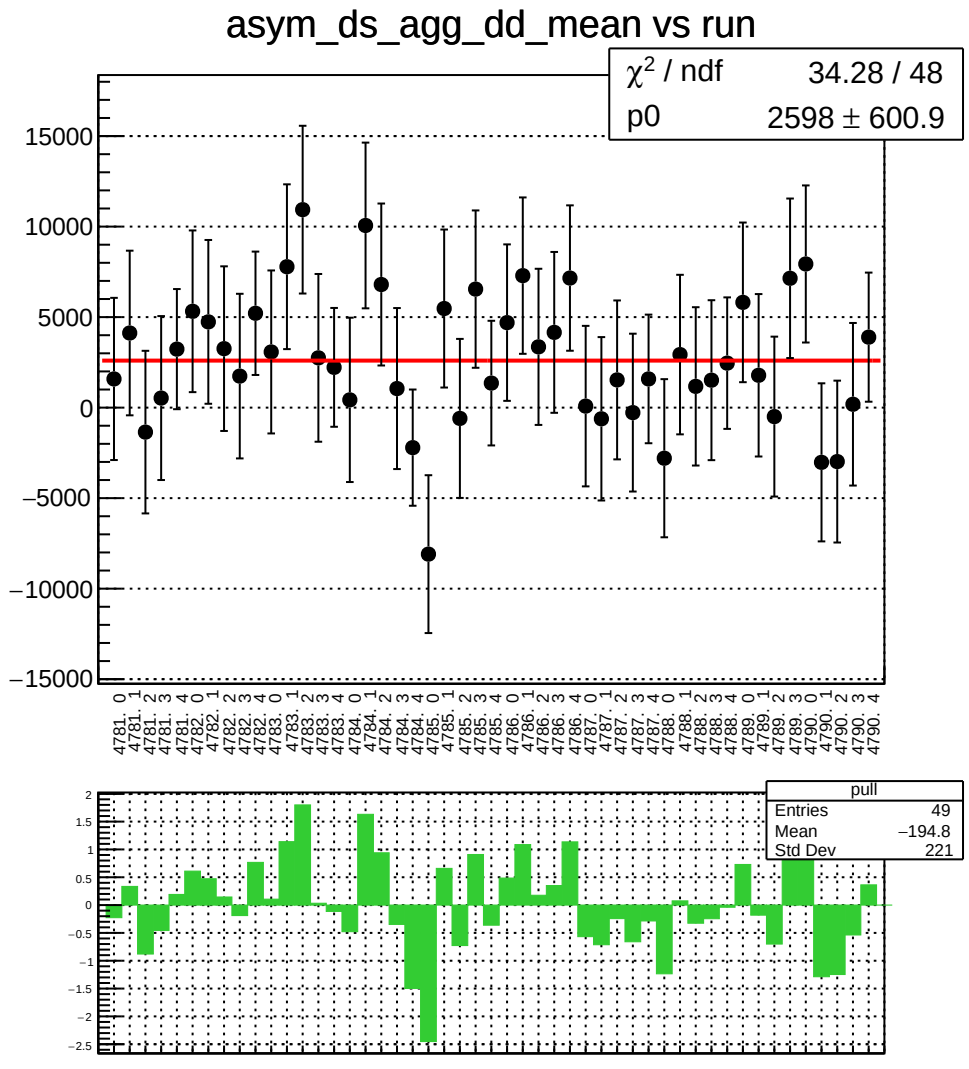
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


asym_ds_agg_av_mean vs run
χ² / ndf 61.98 / 48
p0 1355 ± 437
10000
5000
0
−5000
−10000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 77.57
Std Dev 51.13
2
1
0
−1
−2
pull1D
Entries 49
Mean −0.04718
Std Dev 1.124
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
χ² / ndf 1.731e+04 / 48
p0 304.3 ± 0.309
400
380
360
340
320
300
280
260
240
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


asym_ds_agg_dd_mean vs run
χ² / ndf 34.28 / 48
p0 2598 ± 600.9
15000
10000
5000
0
−5000
−10000
−15000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
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4784. 4
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4785. 1
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4786. 1
4786. 2
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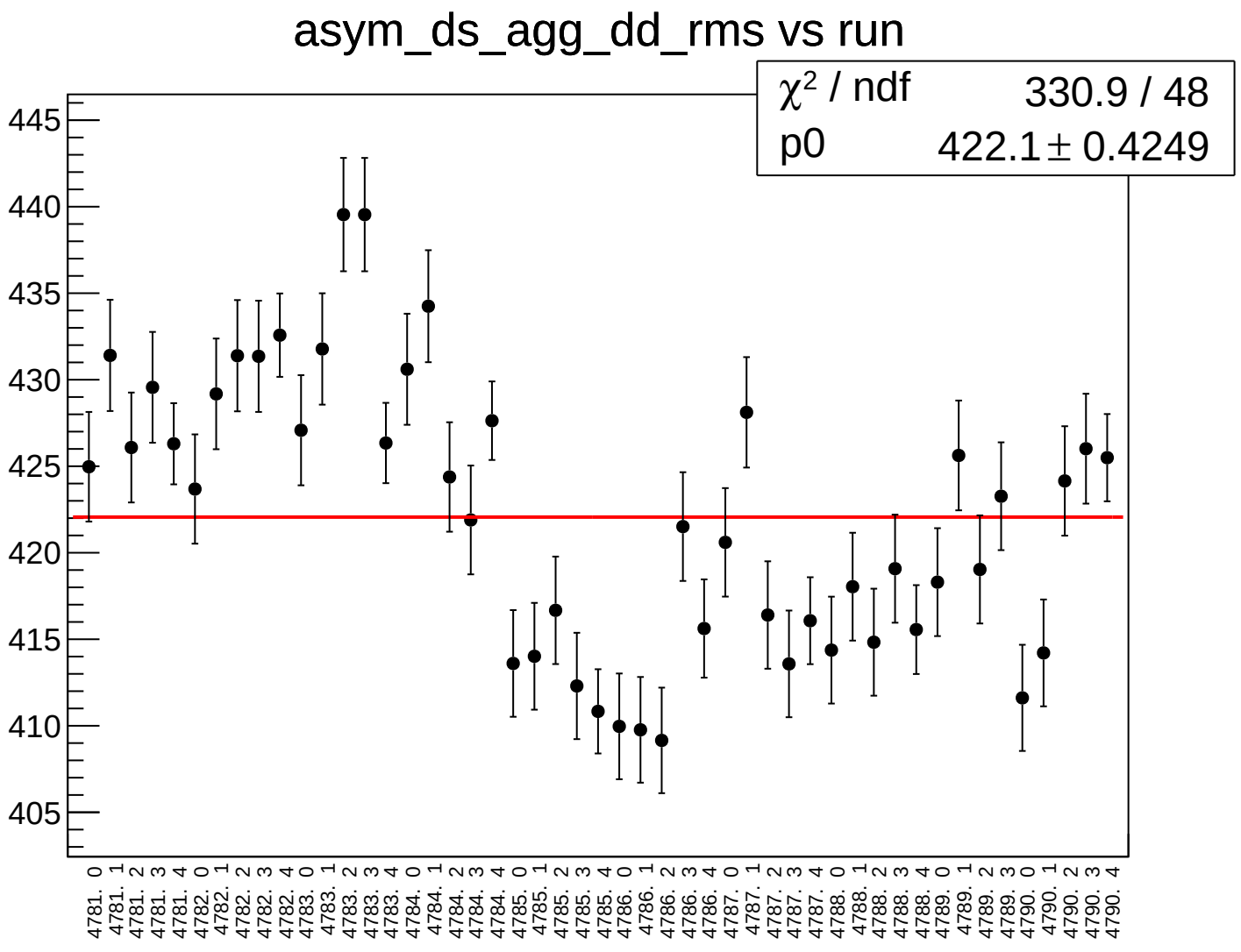
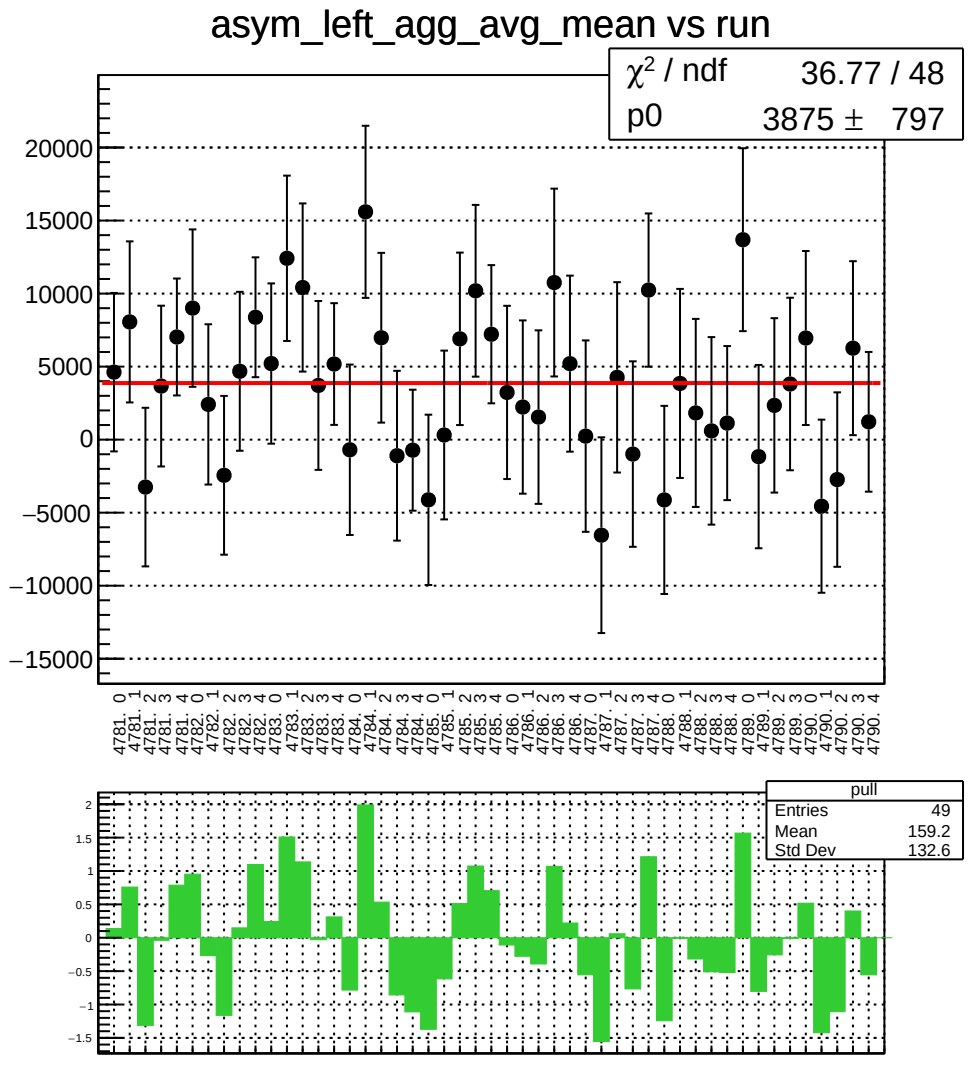
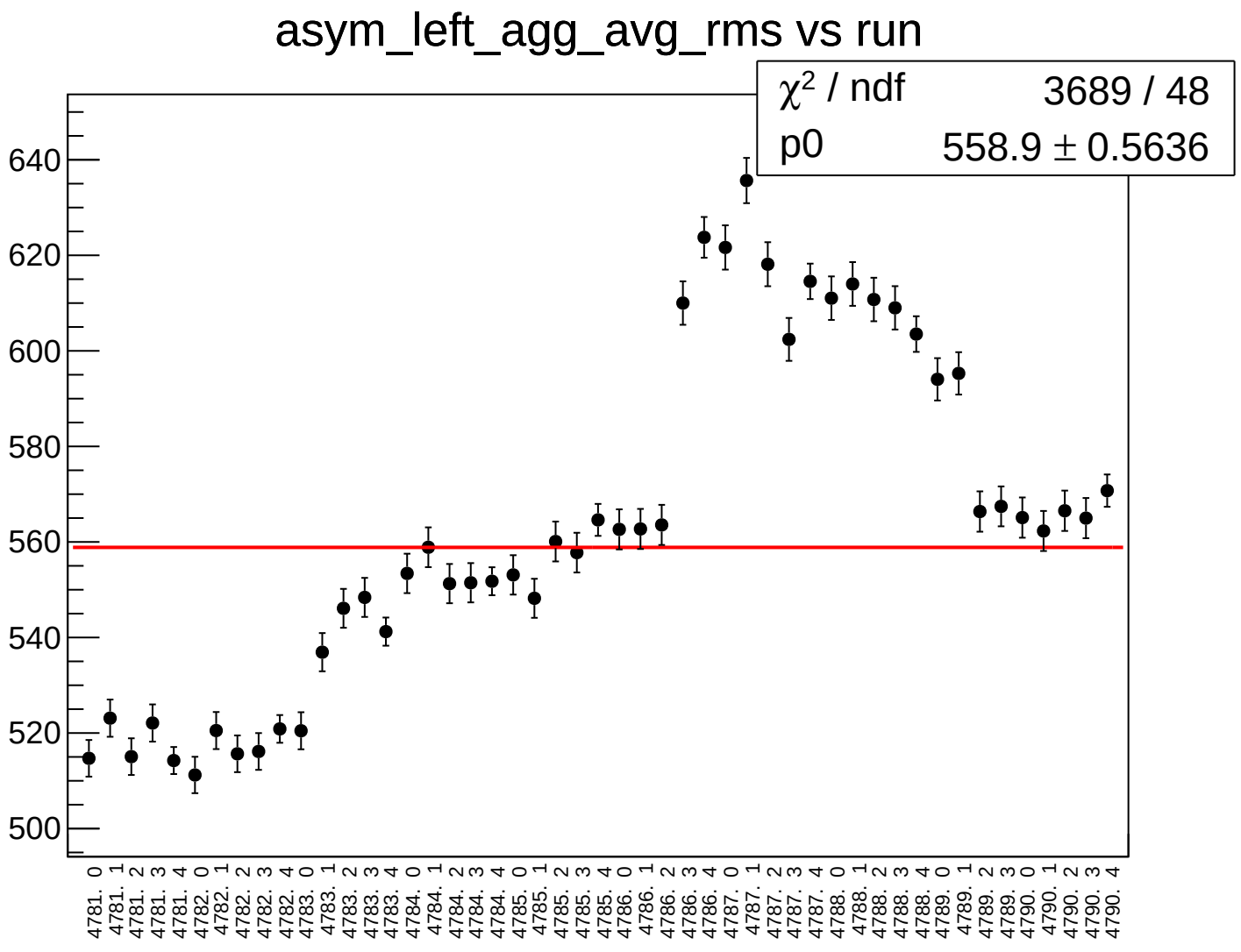
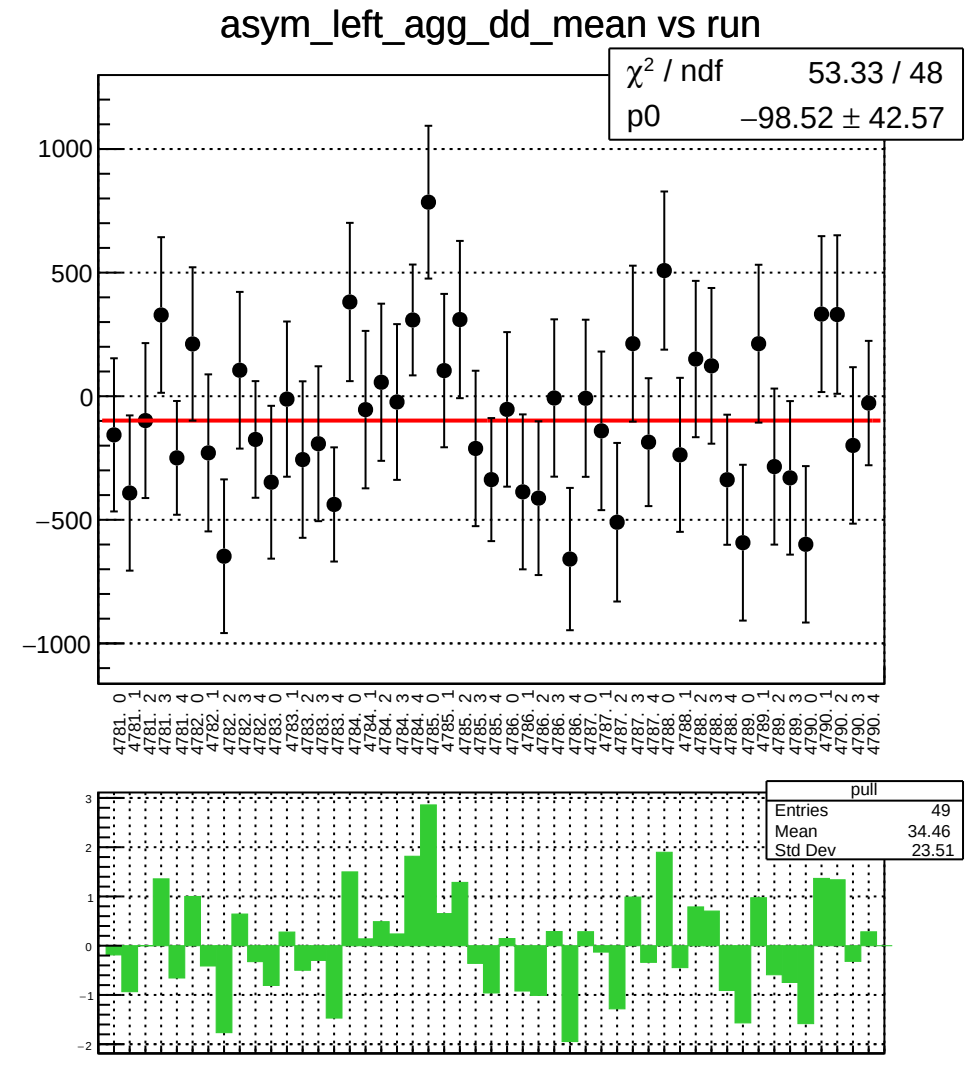
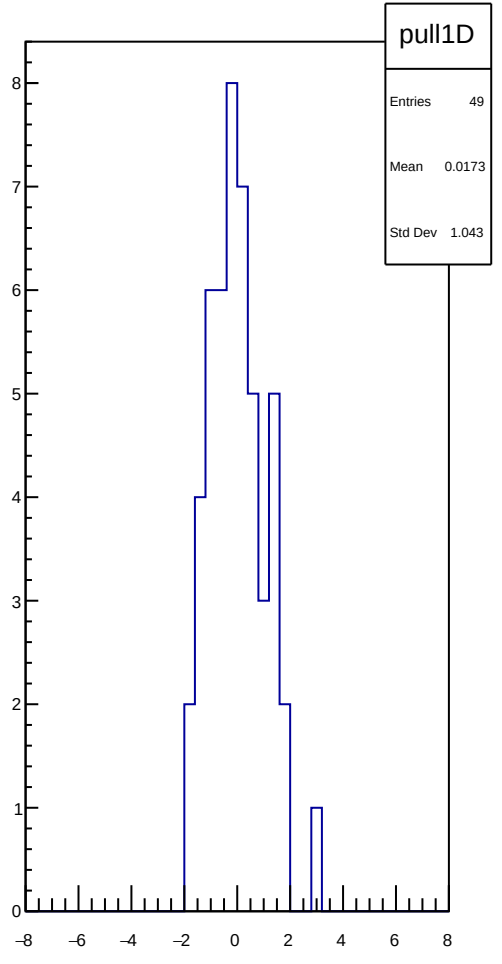
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −194.8
Std Dev 221
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 49
Mean 0.008412
Std Dev 0.8364
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

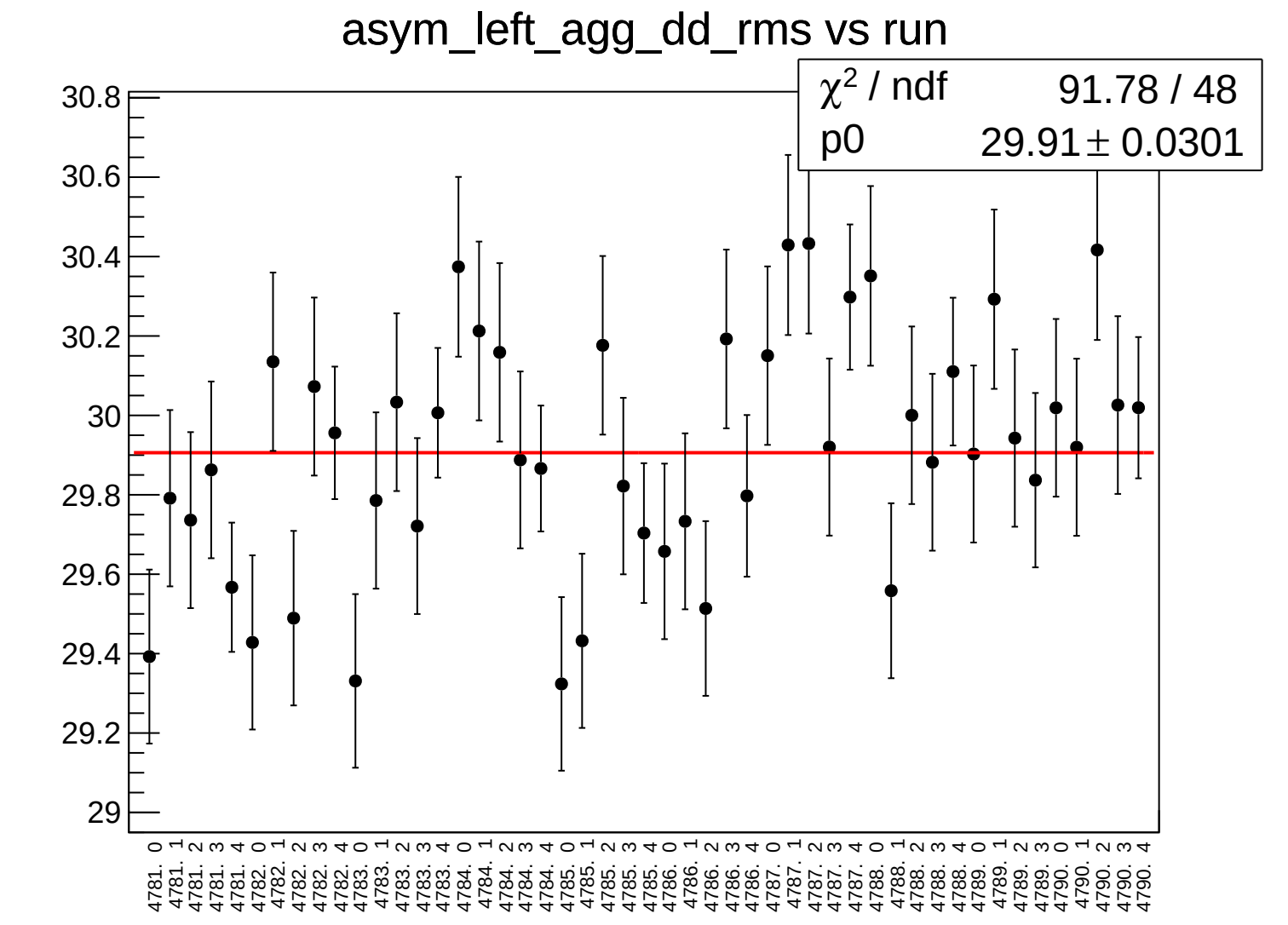

asym_ds_agg_dd_rms vs run
χ² / ndf 330.9 / 48
p0 422.1 ± 0.4249
445
440
435
430
425
420
415
410
405
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

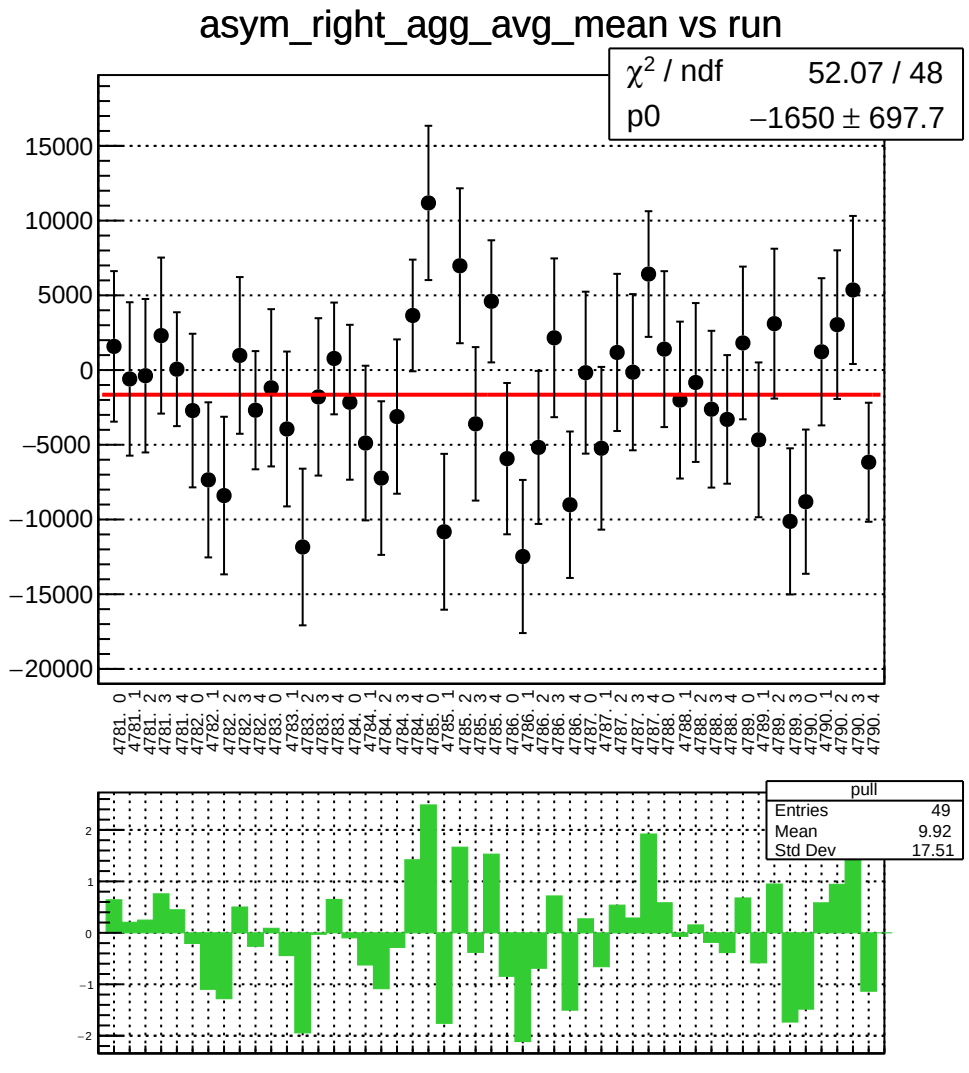

asym_left_agg_avg_mean vs run
χ² / ndf 36.77 / 48
p0 3875 ± 797
20000
15000
10000
5000
0
−5000
−10000
−15000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 159.2
Std Dev 132.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 49
Mean −0.02037
Std Dev 0.866
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

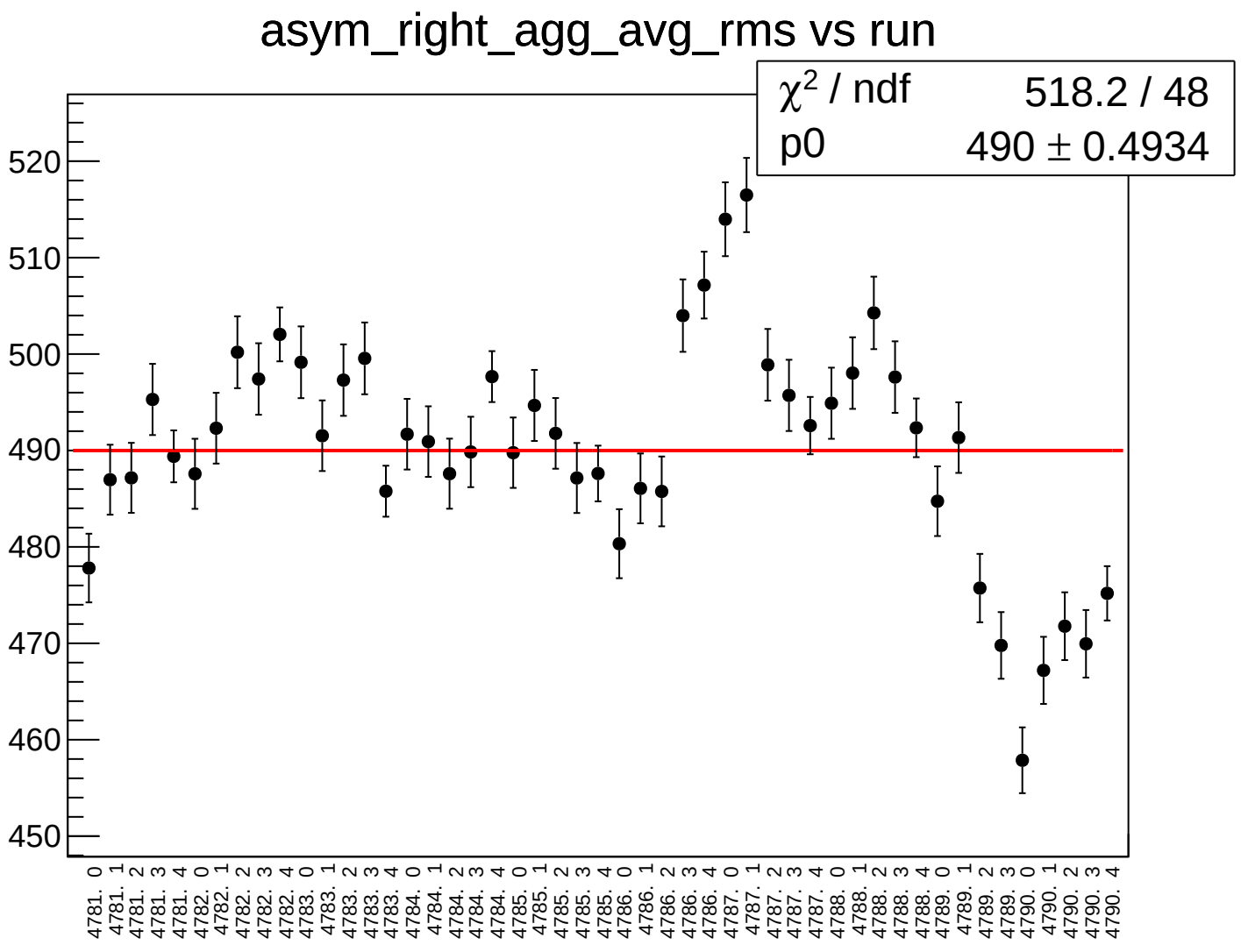

asym_left_agg_avg_rms vs run
χ² / ndf 3689 / 48
p0 558.9 ± 0.5636
640
620
600
580
560
540
520
500
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

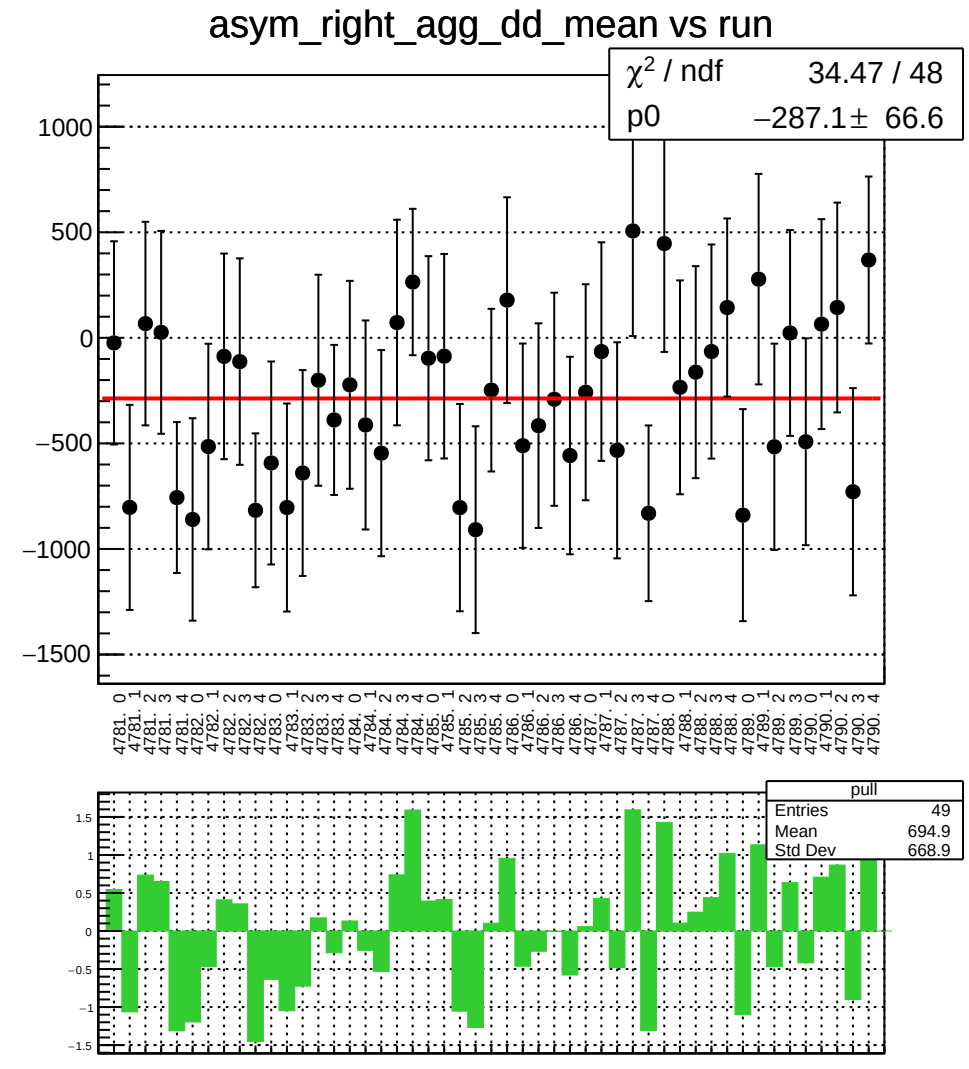

asym_left_agg_dd_mean vs run
χ² / ndf 53.33 / 48
p0 −98.52 ± 42.57
1000
500
0
−500
−1000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 34.46
Std Dev 23.51
3
2
1
0
−1
−2

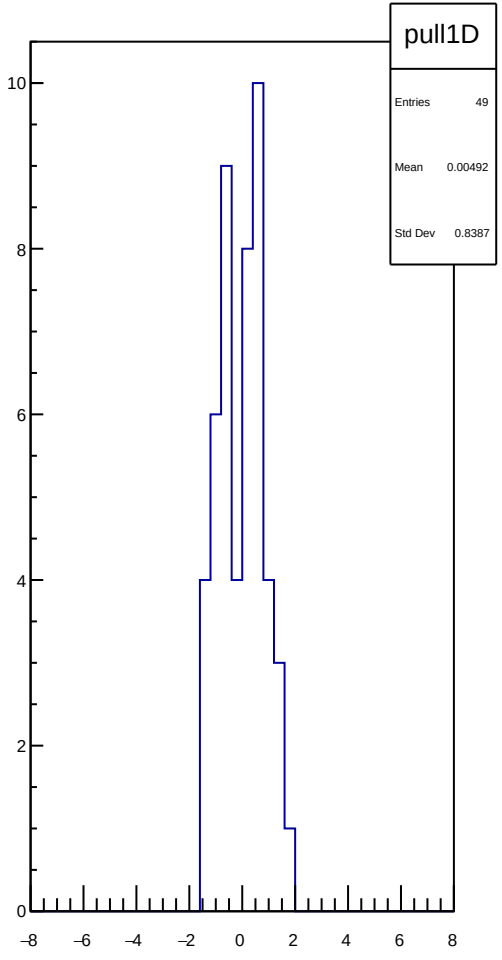

pull1D
Entries 49
Mean 0.0173
Std Dev 1.043
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

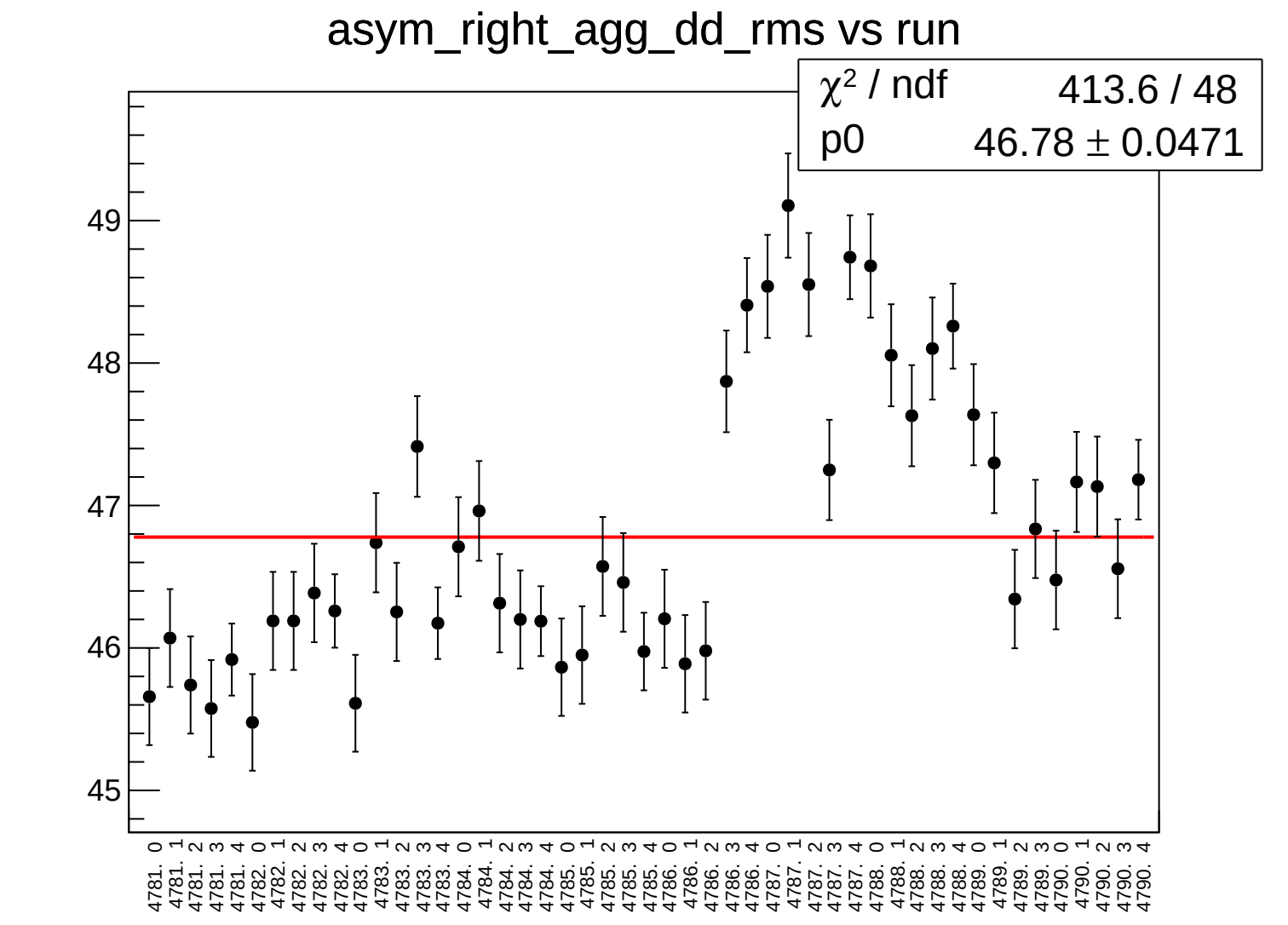

asym_left_agg_dd_rms vs run
χ^2 / ndf 91.78 / 48
p0 29.91 ± 0.0301
30.8
30.6
30.4
30.2
30
29.8
29.6
29.4
29.2
29
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

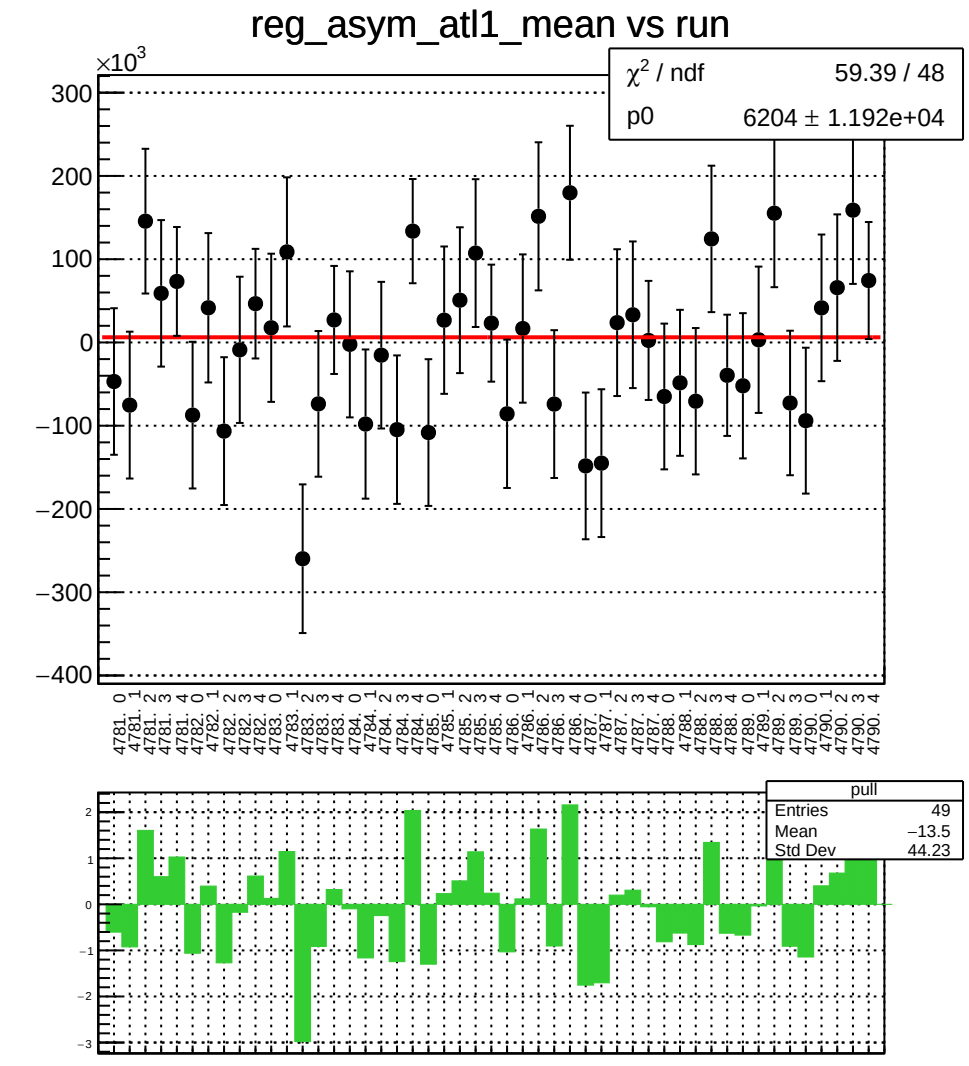

asym_right_agg_avg_mean vs run
χ² / ndf 52.07 / 48
p0 −1650 ± 697.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 9.92
Std Dev 17.51
2
1
0
−1
−2
pull1D
Entries 49
Mean −0.02424
Std Dev 1.031
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

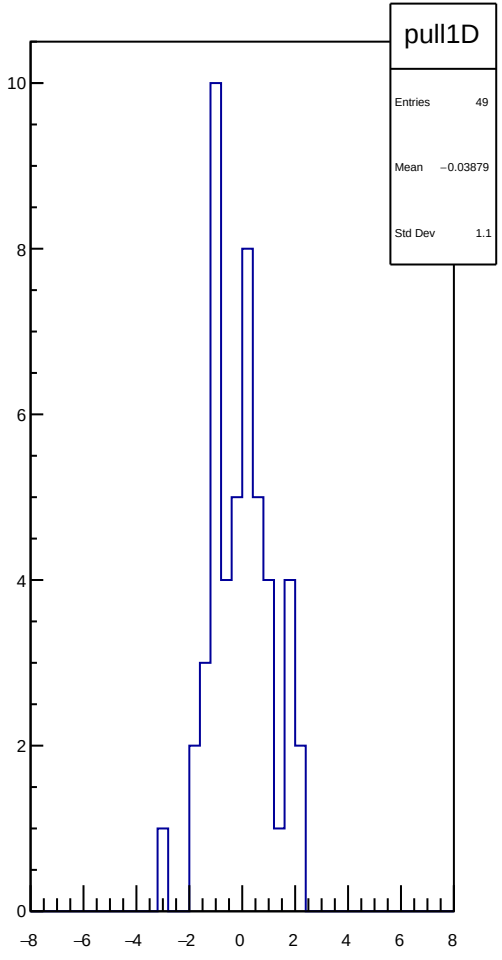

asym_right_agg_avg_rms vs run
χ² / ndf 518.2 / 48
p0 490 ± 0.4934
520
510
500
490
480
470
460
450
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

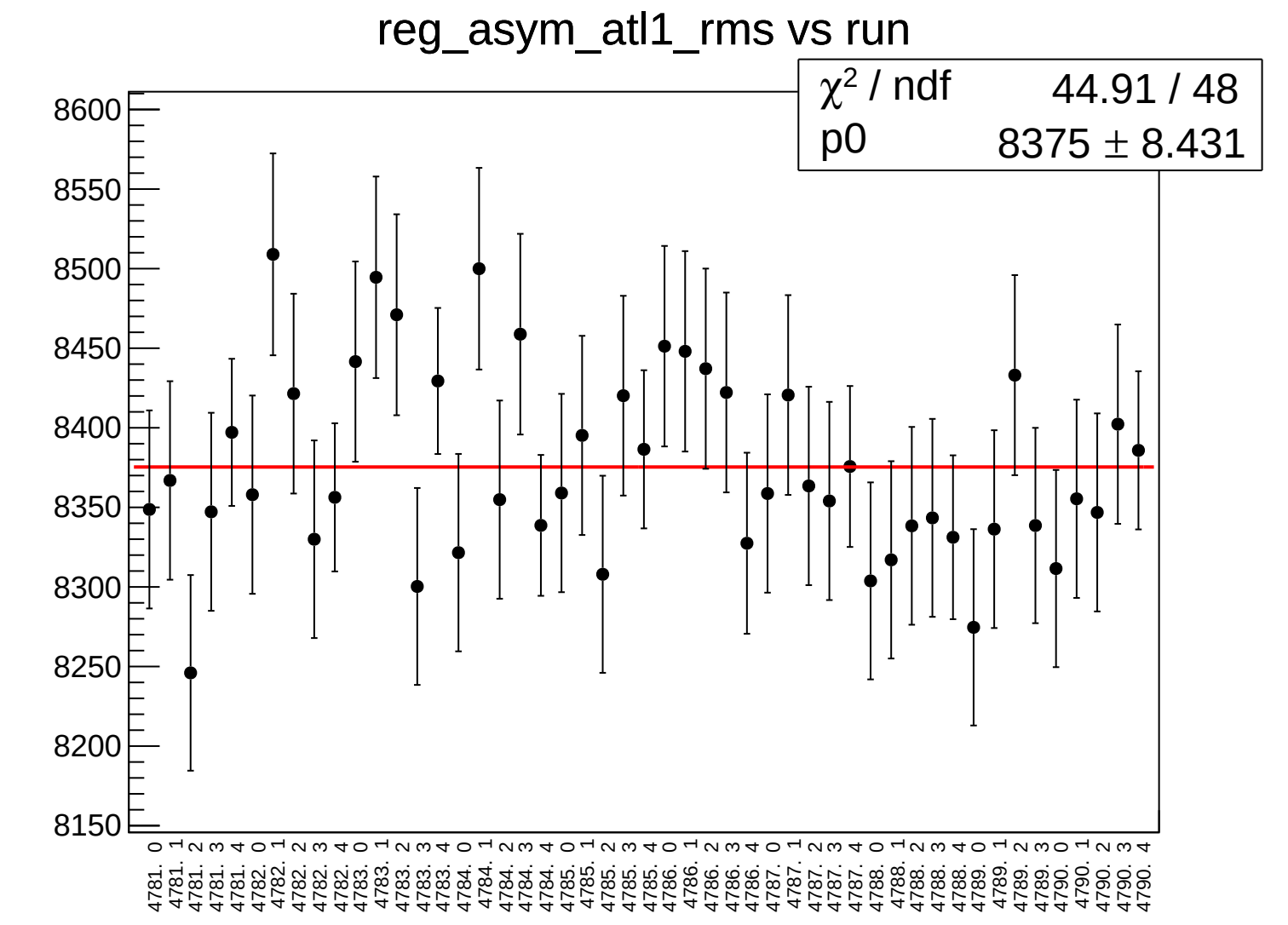

asym_right_agg_dd_mean vs run
χ² / ndf 34.47 / 48
p0 −287.1± 66.6
1000
500
0
−500
−1000
−1500
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 694.9
Std Dev 668.9
1.5
1
0.5
0
−0.5
−1
−1.5

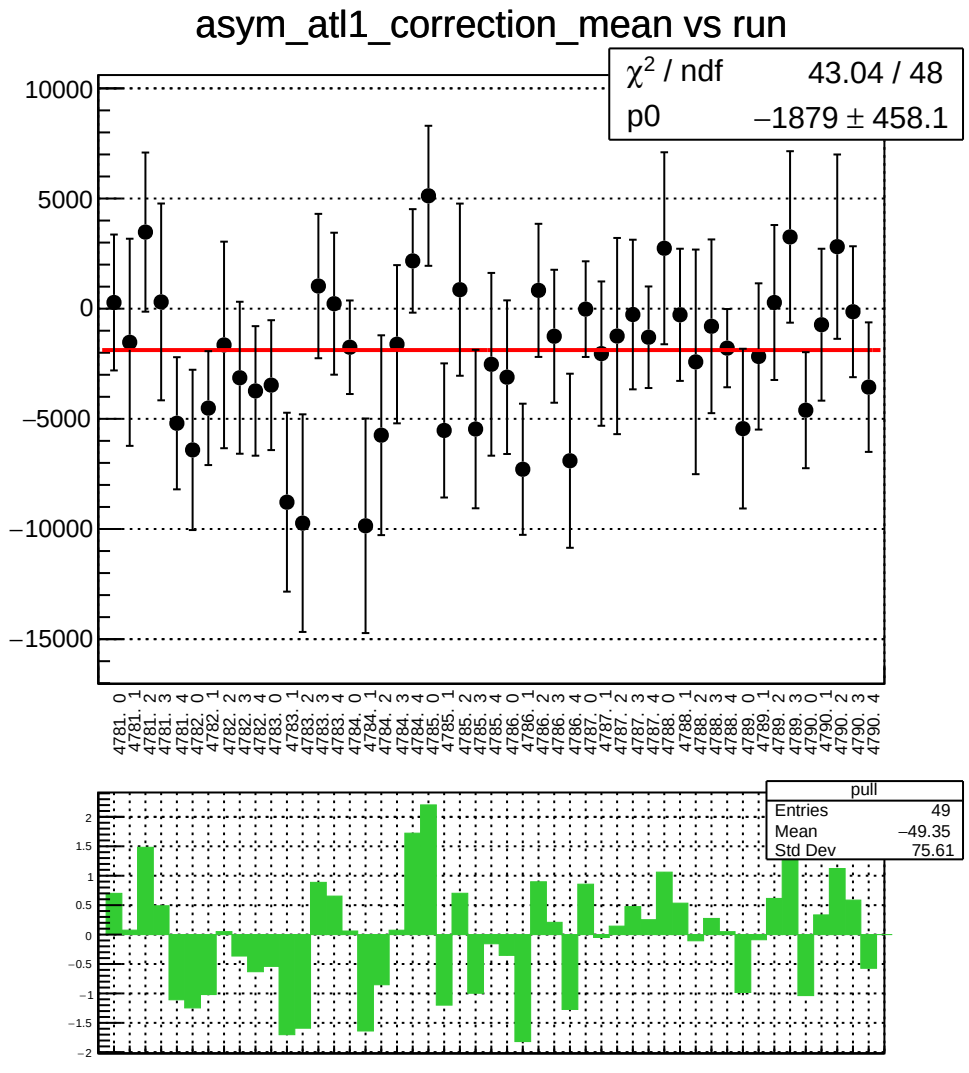

pull1D
Entries 49
Mean 0.00492
Std Dev 0.8387
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

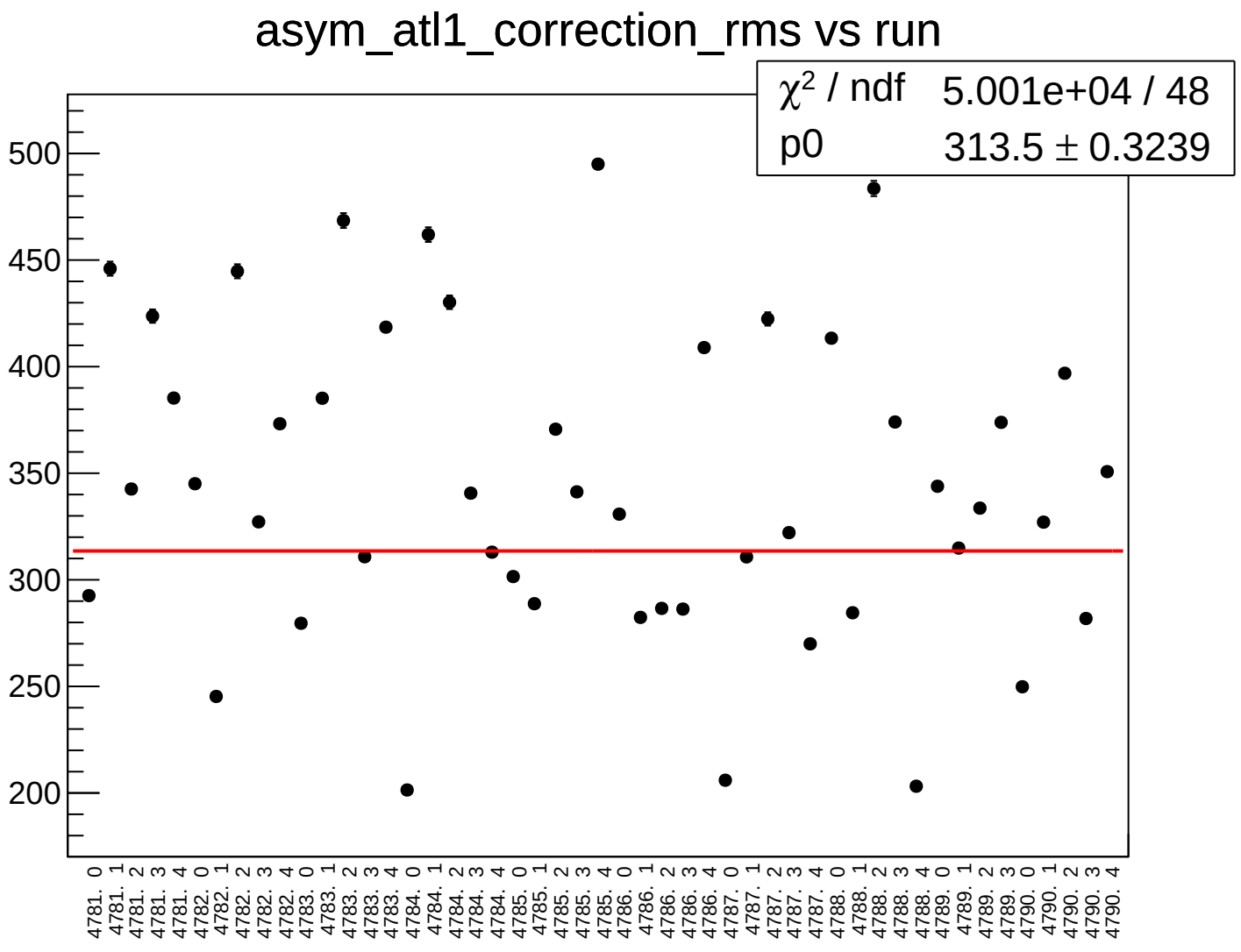

asym_right_agg_dd_rms vs run
χ² / ndf 413.6 / 48
p0 46.78 ± 0.0471
49
48
47
46
45
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

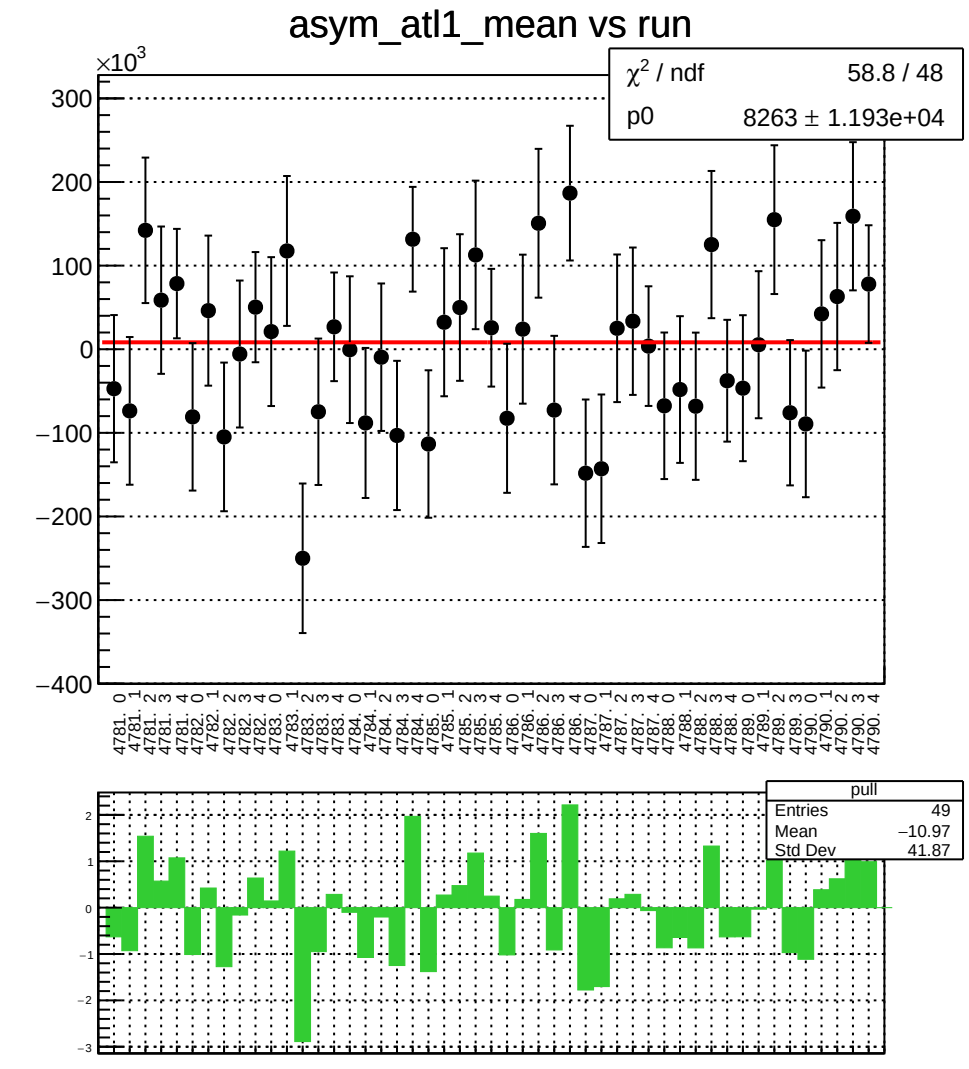

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 59.39 / 48
p0 6204 ± 1.192e+04
pull
Entries 49
Mean −13.5
Std Dev 44.23

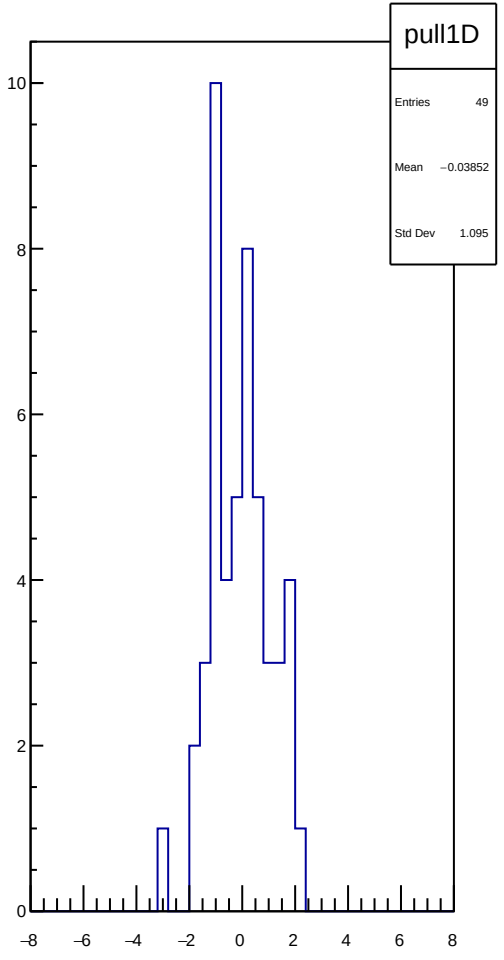

pull1D
Entries 49
Mean −0.03879
Std Dev 1.1

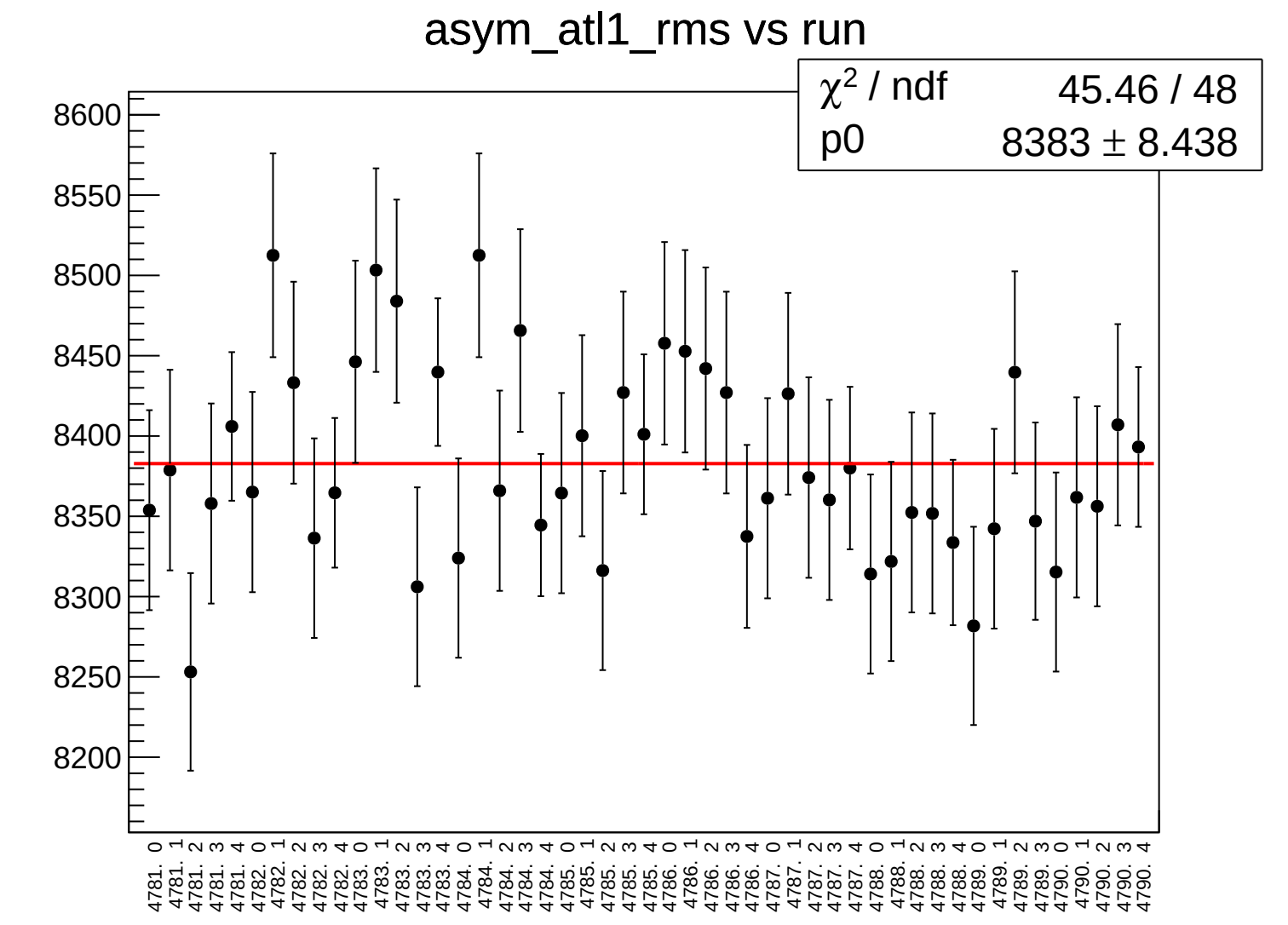

reg_asym_atl1_rms vs run
χ² / ndf 44.91 / 48
p0 8375 ± 8.431
8600
8550
8500
8450
8400
8350
8300
8250
8200
8150
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

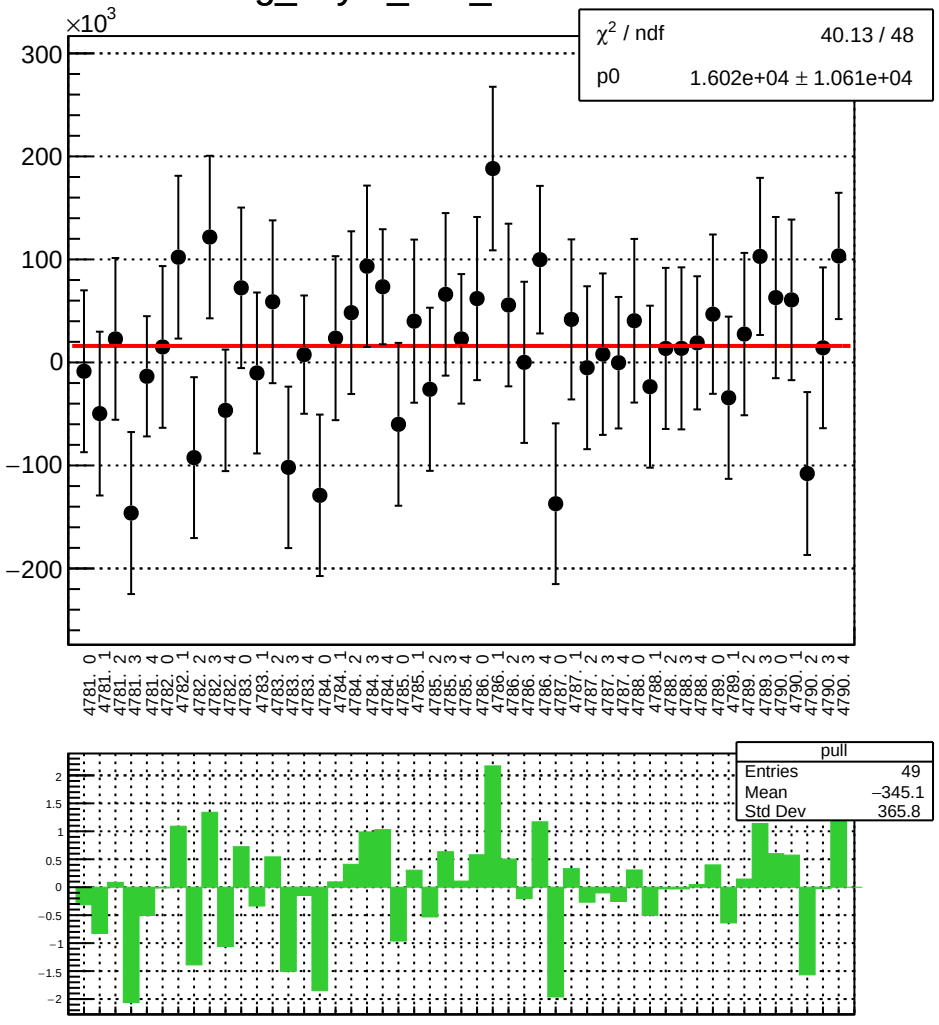

asym_atl1_correction_mean vs run
χ² / ndf 43.04 / 48
p0 −1879 ± 458.1
10000
5000
0
−5000
−10000
−15000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −49.35
Std Dev 75.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean −0.03048
Std Dev 0.9367
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

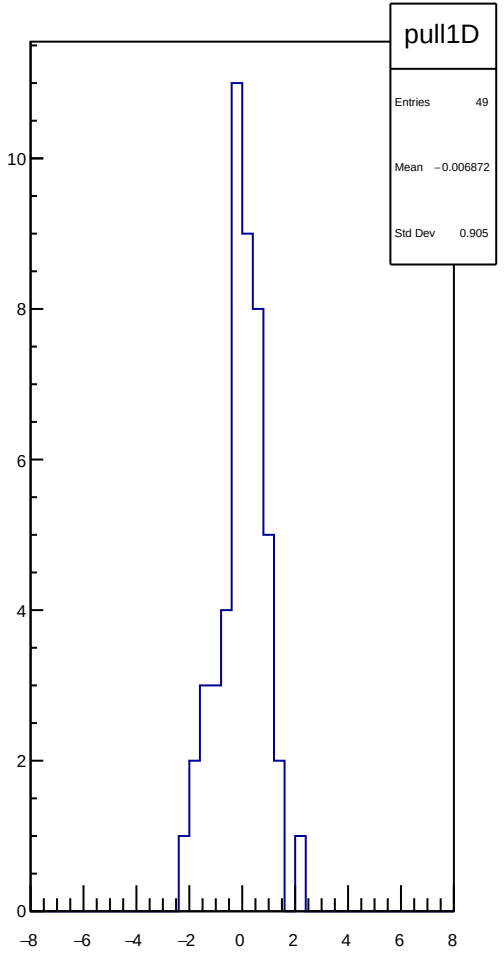

asym_atl1_correction_rms vs run
χ² / ndf 5.001e+04 / 48
p0 313.5 ± 0.3239
500
450
400
350
300
250
200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

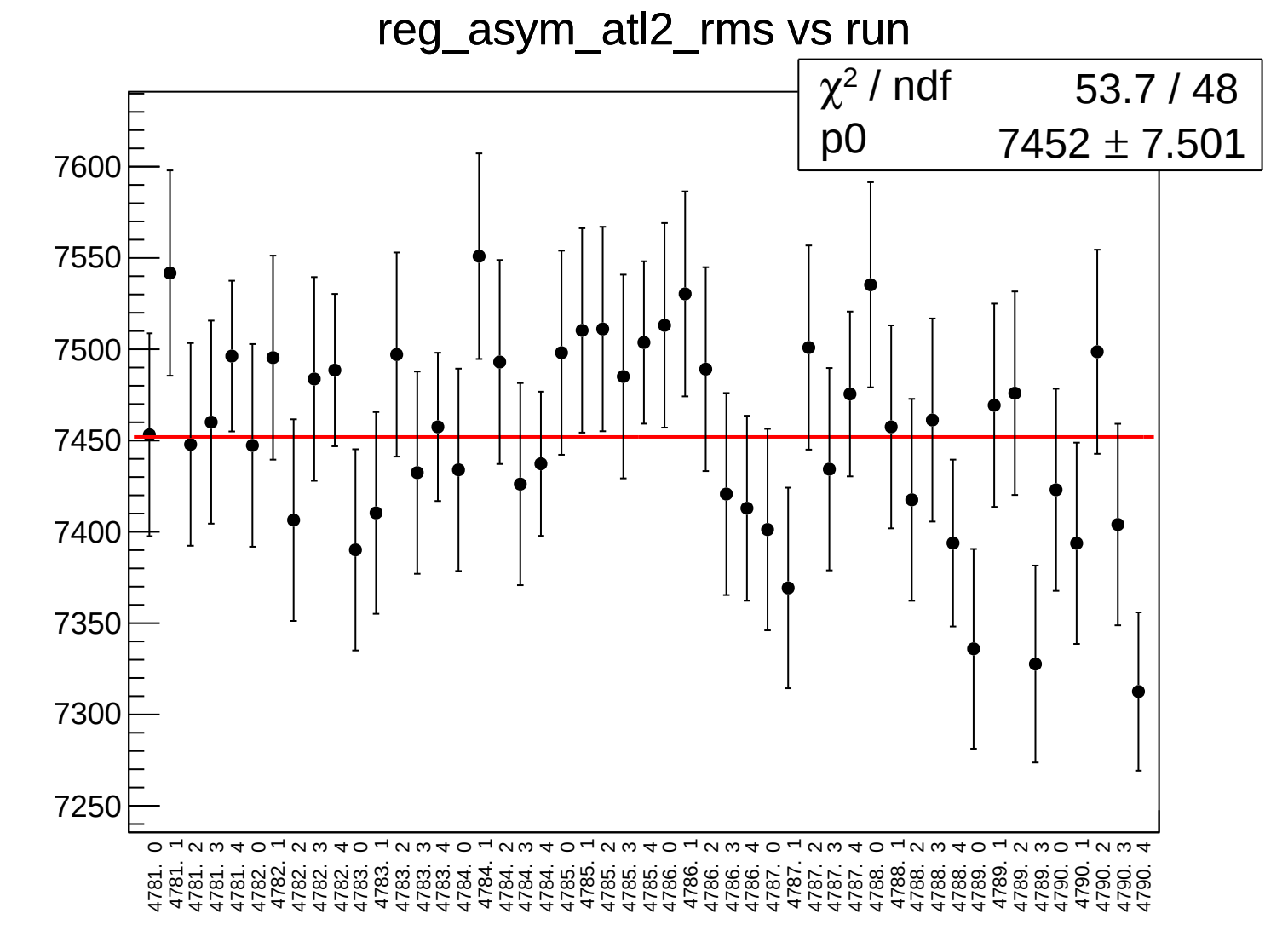

asym_atl1_mean vs run
×10^3
χ² / ndf 58.8 / 48
p0 8263 ± 1.193e+04
pull
Entries 49
Mean −10.97
Std Dev 41.87

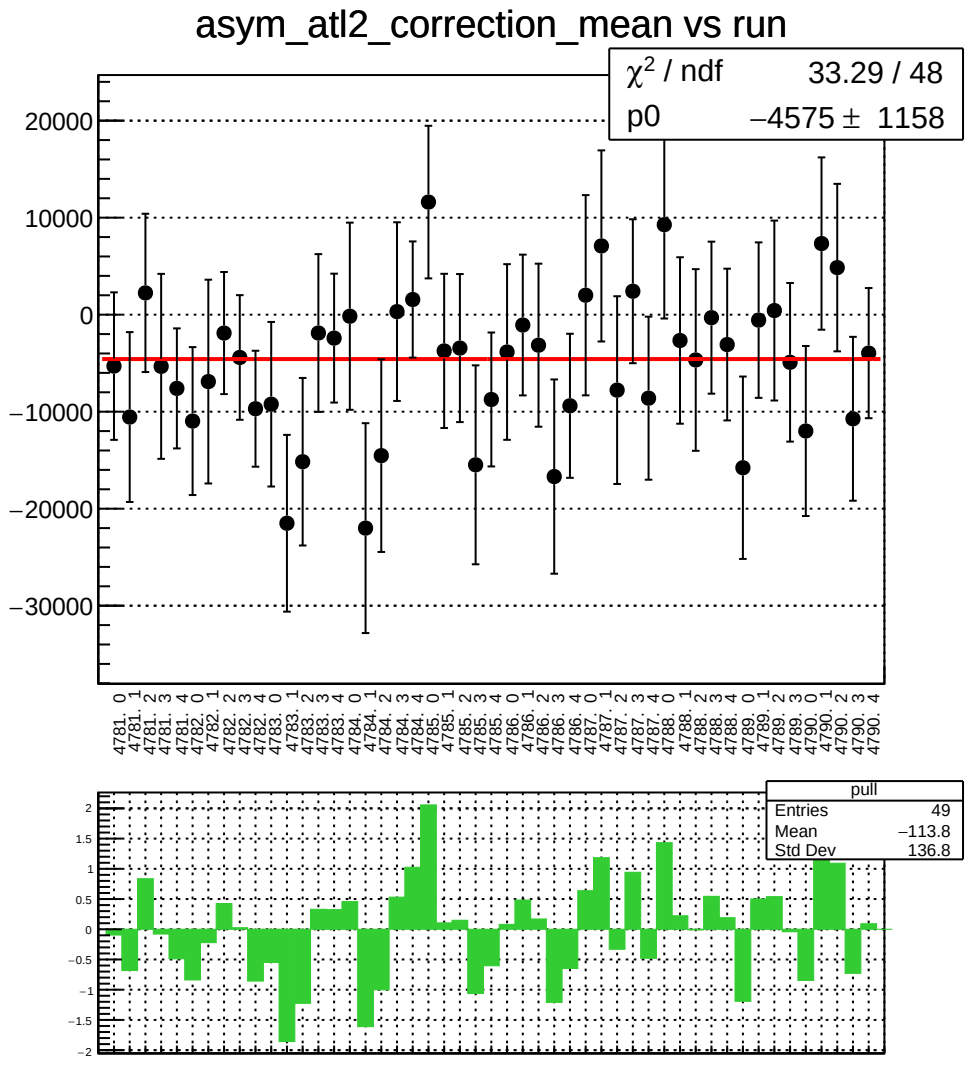

pull1D
Entries 49
Mean −0.03852
Std Dev 1.095

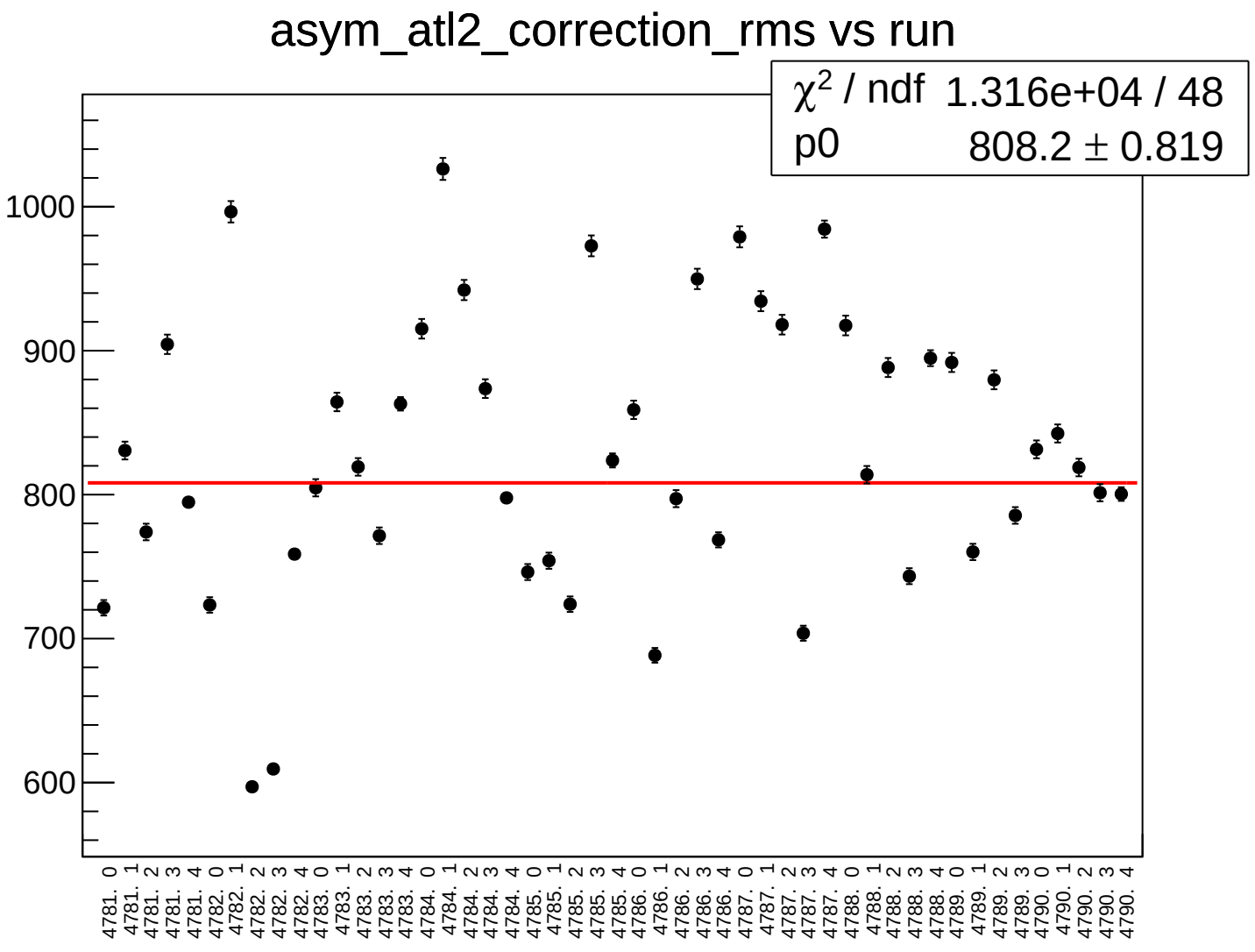

asym_atl1_rms vs run
χ² / ndf 45.46 / 48
p0 8383 ± 8.438
8600
8550
8500
8450
8400
8350
8300
8250
8200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

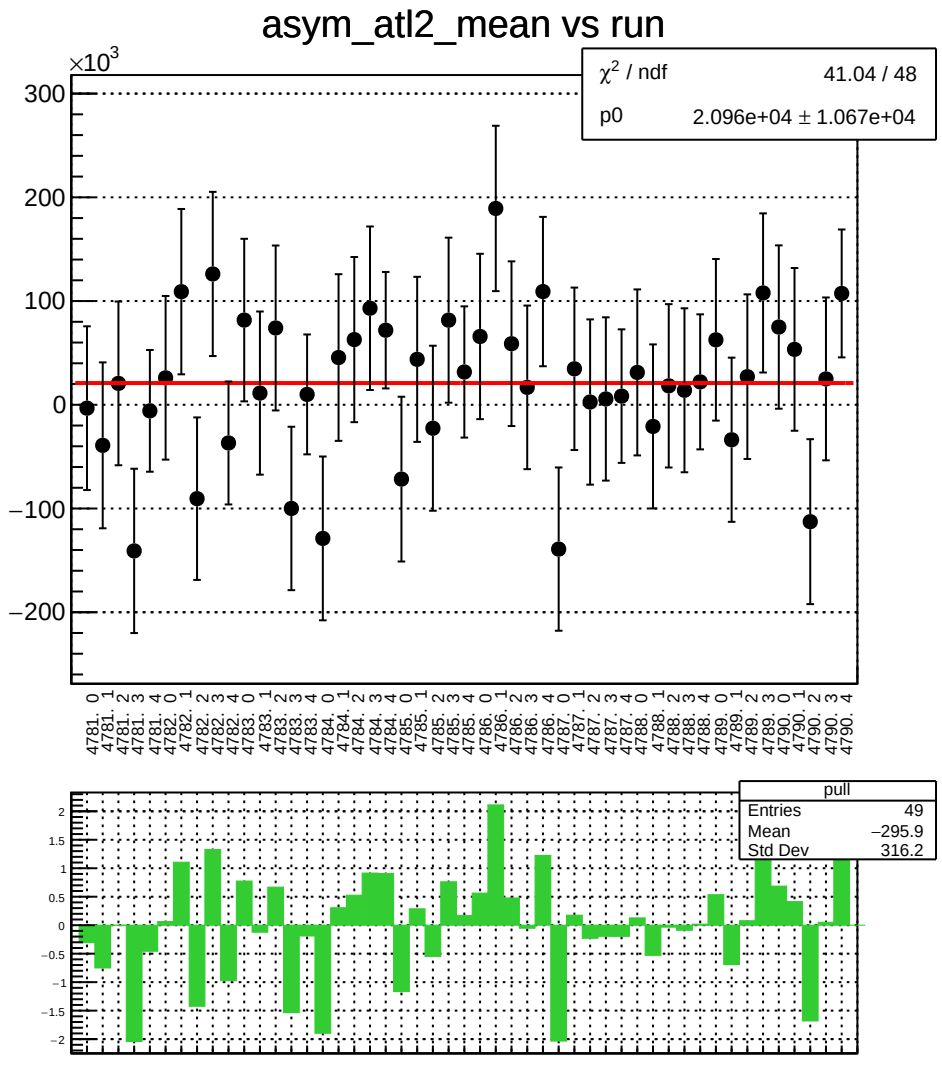

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 40.13 / 48
p0 1.602e+04 ± 1.061e+04
300
200
100
0
−100
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −345.1
Std Dev 365.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

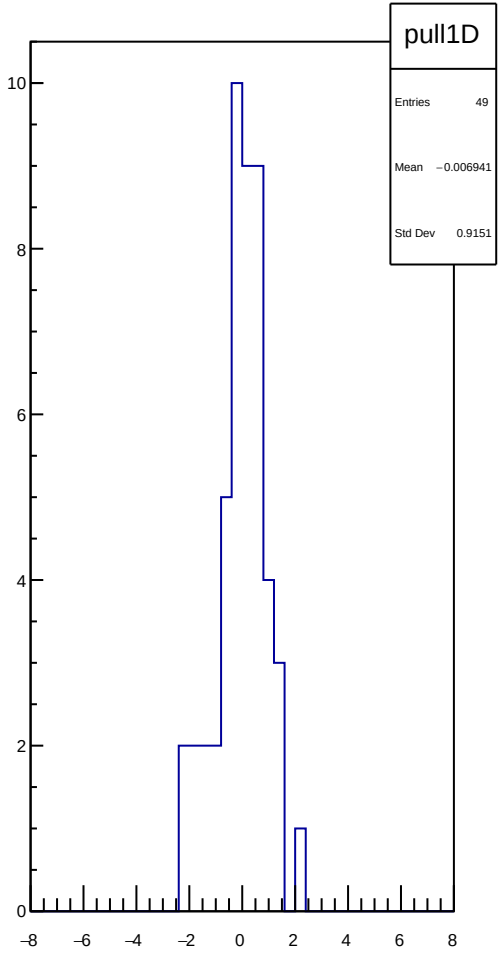

pull1D
Entries 49
Mean −0.006872
Std Dev 0.905
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

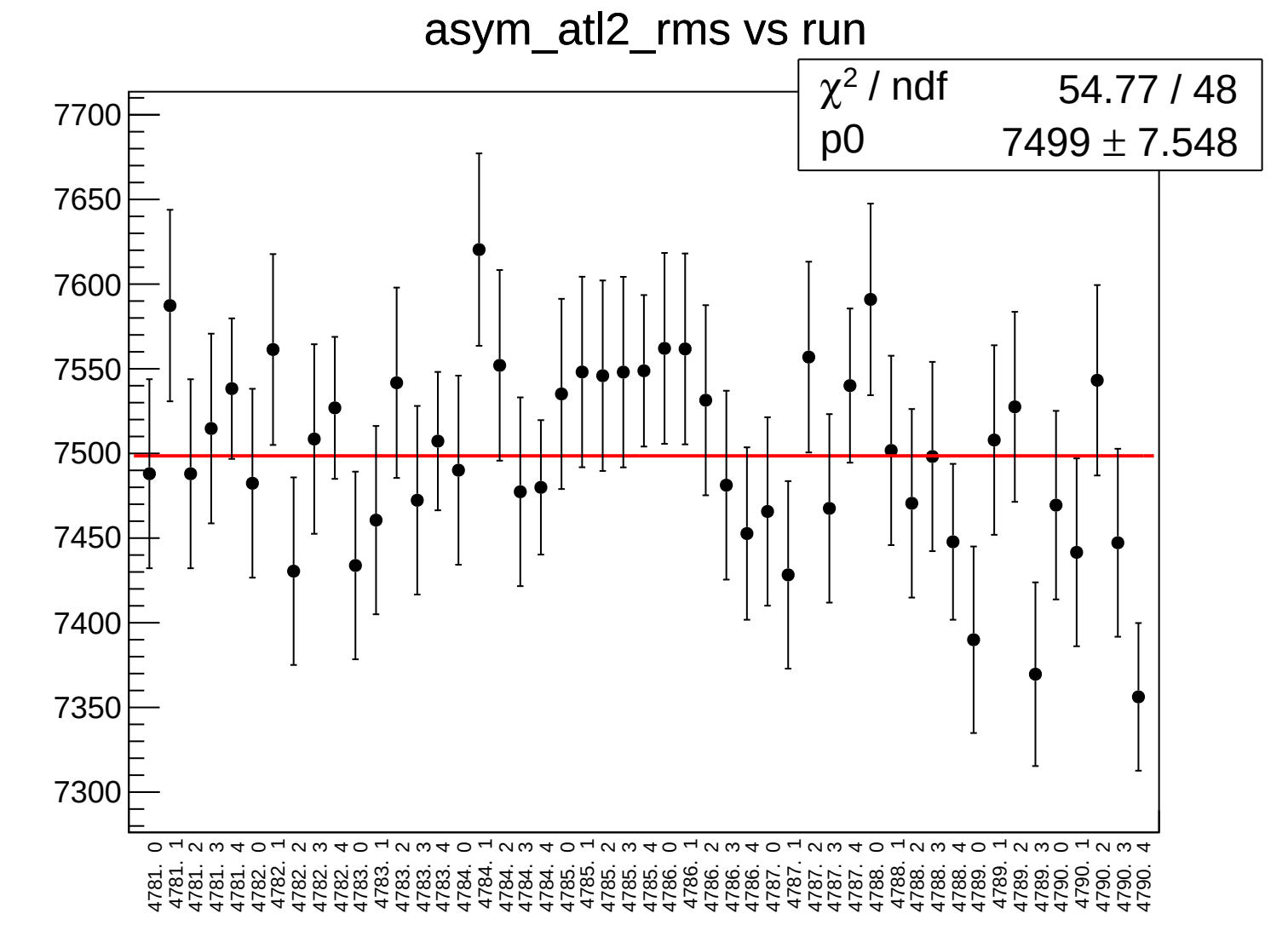

reg_asym_atl2_rms vs run
χ² / ndf 53.7 / 48
p0 7452 ± 7.501
7600
7550
7500
7450
7400
7350
7300
7250
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

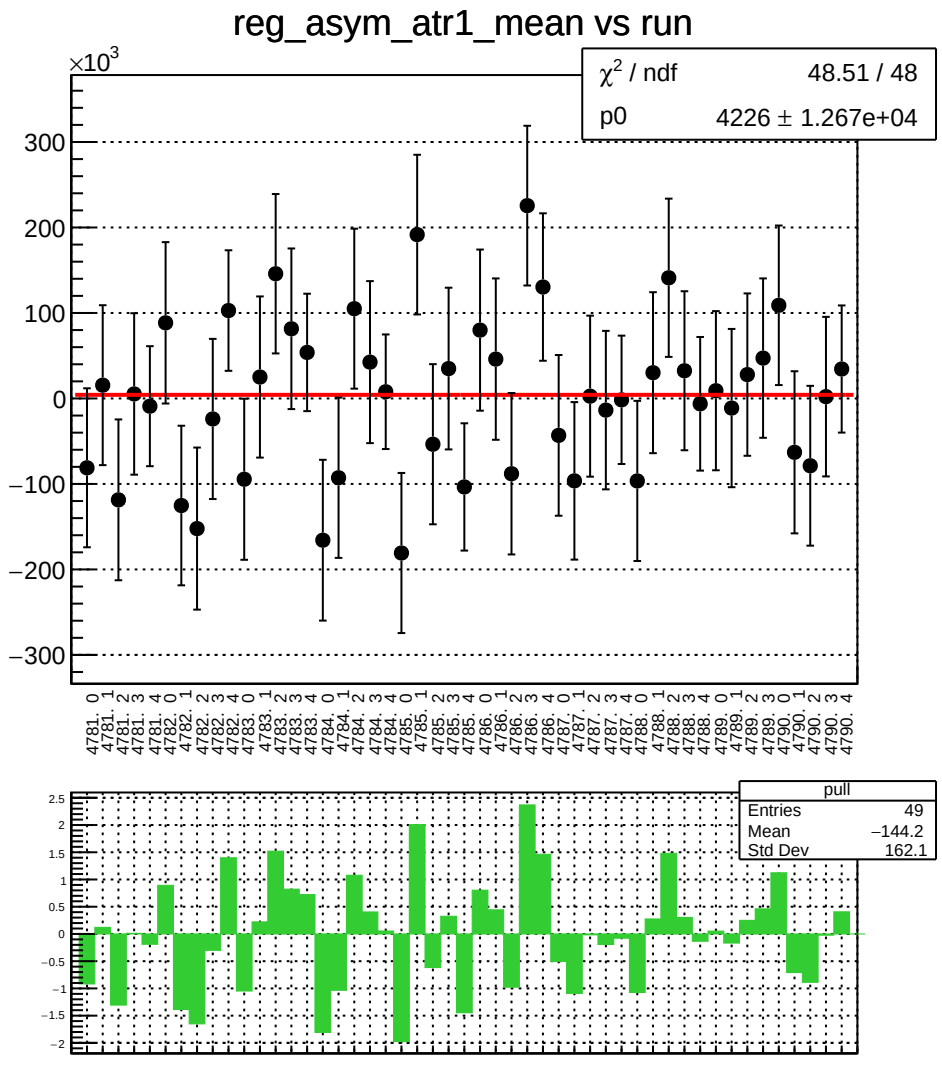

asym_atl2_correction_mean vs run
χ² / ndf 33.29 / 48
p0 −4575 ± 1158
20000
10000
0
−10000
−20000
−30000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −113.8
Std Dev 136.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean −0.01918
Std Dev 0.8241
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

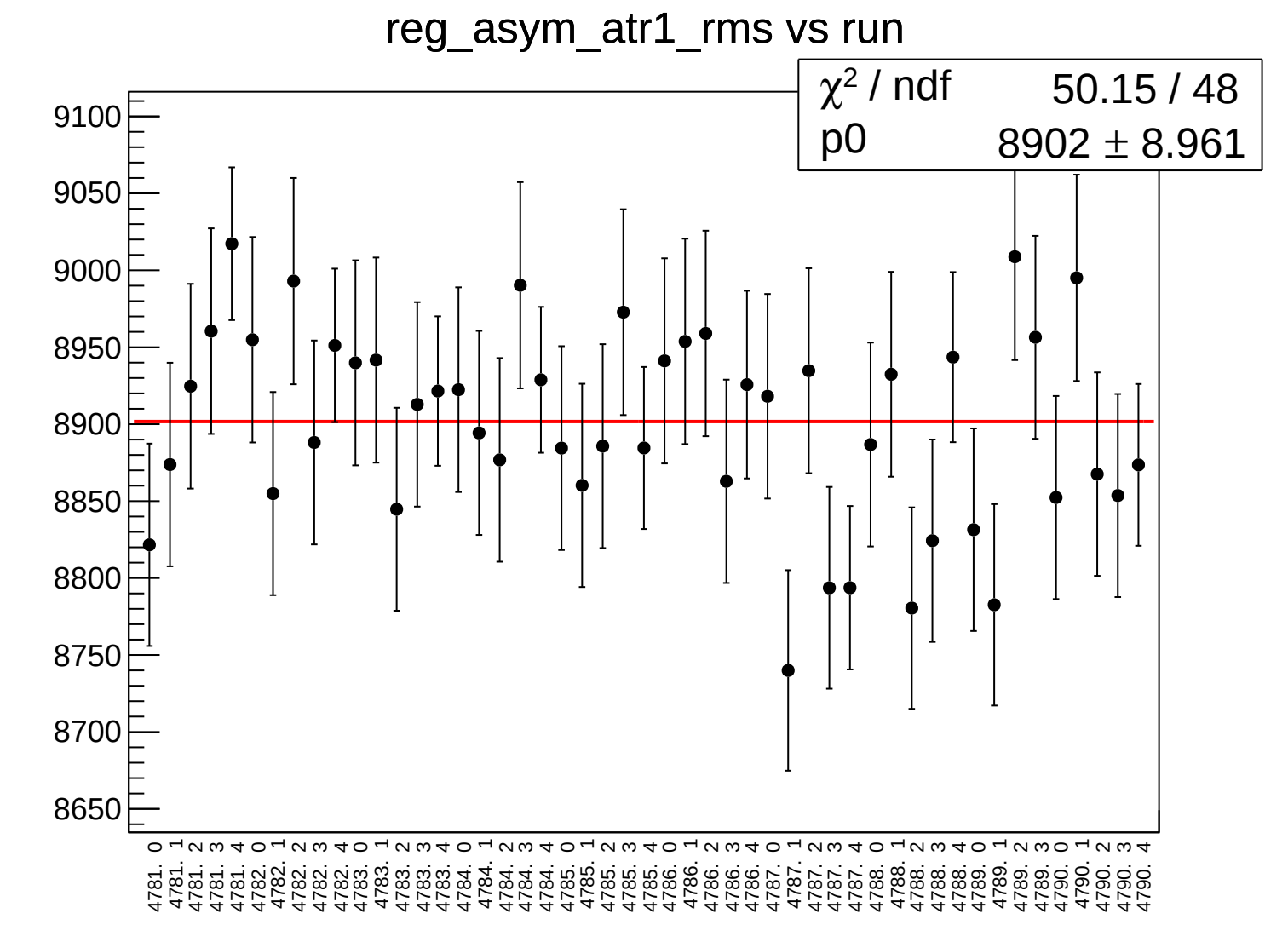

asym_atl2_correction_rms vs run
χ² / ndf 1.316e+04 / 48
p0 808.2 ± 0.819
1000
900
800
700
600
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

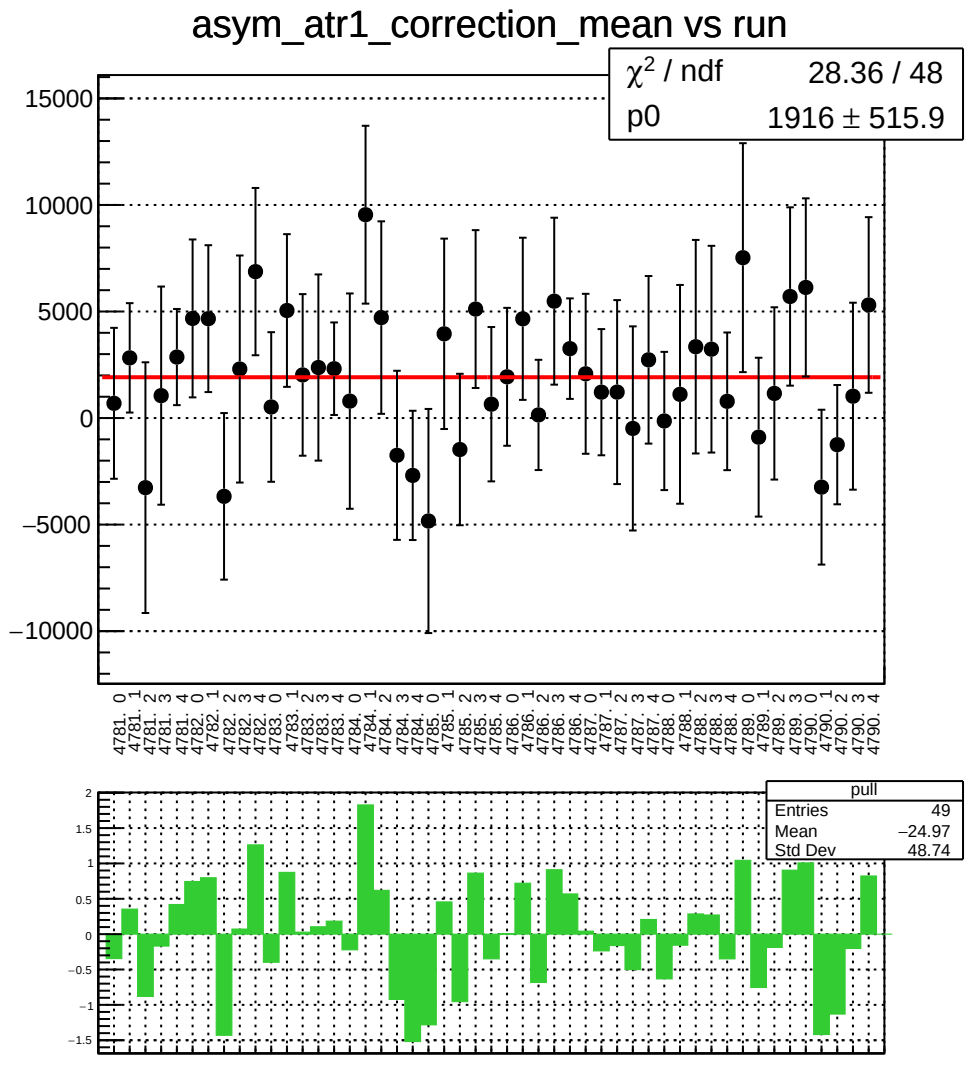

asym_atl2_mean vs run
×10^3
300
200
100
0
−100
−200
χ² / ndf 41.04 / 48
p0 2.096e+04 ± 1.067e+04
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −295.9
Std Dev 316.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

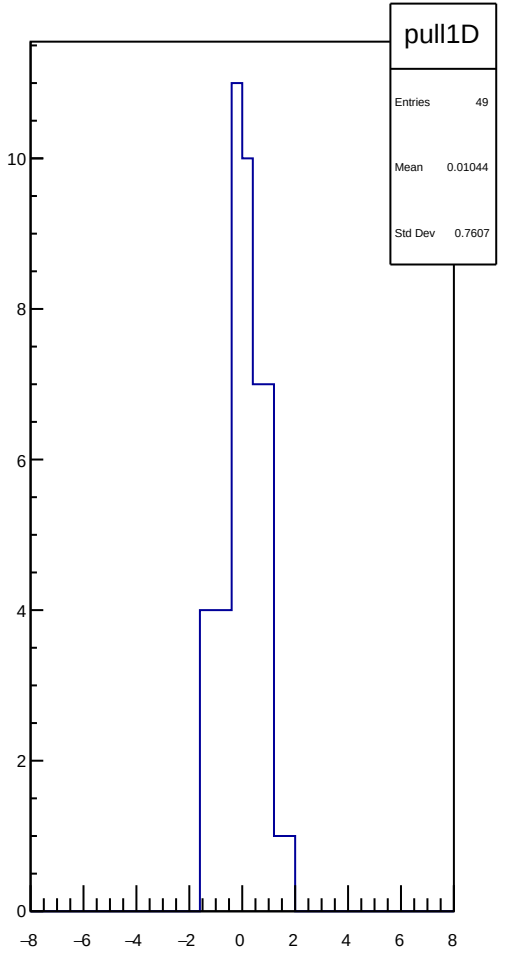

pull1D
Entries 49
Mean −0.006941
Std Dev 0.9151
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

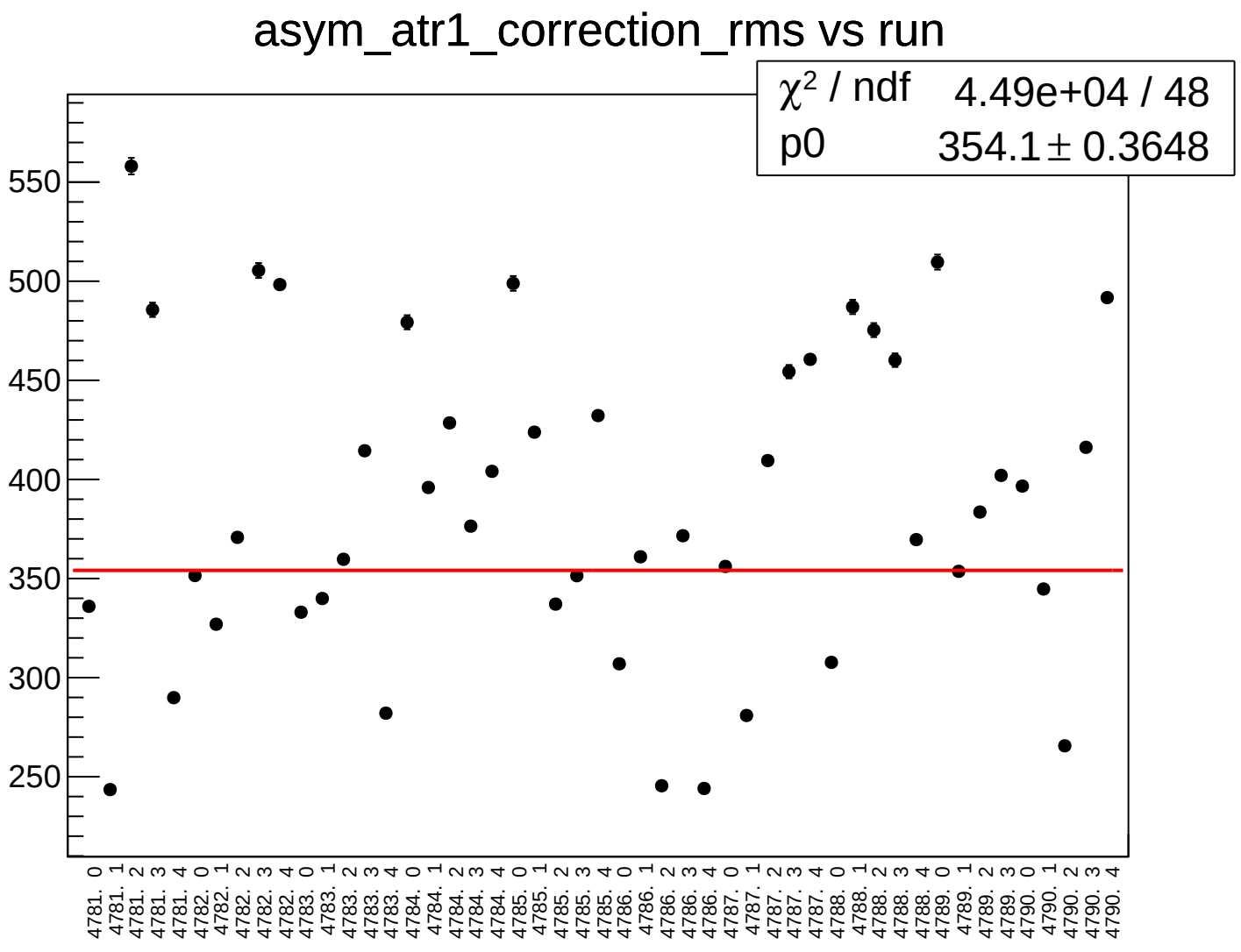

asym_atl2_rms vs run
χ² / ndf 54.77 / 48
p0 7499 ± 7.548
7700
7650
7600
7550
7500
7450
7400
7350
7300
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

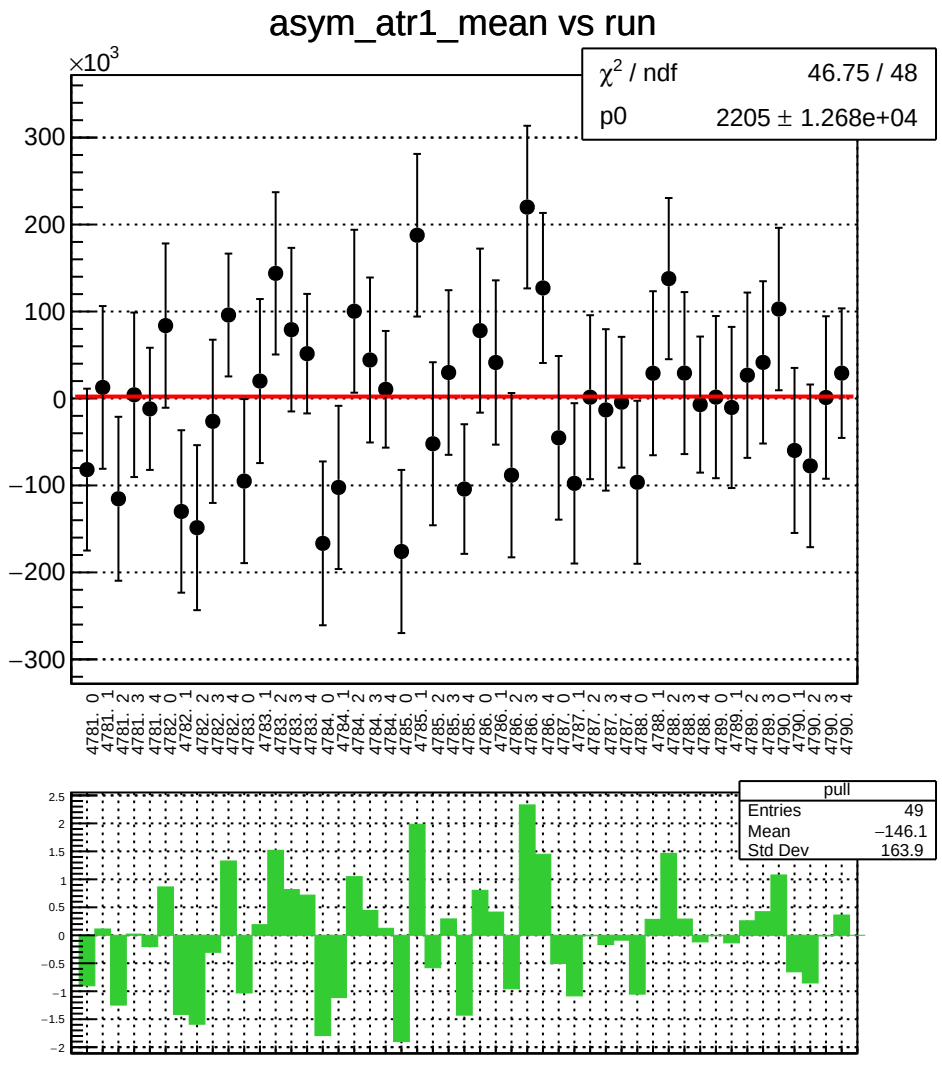

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 48.51 / 48
p0 4226 ± 1.267e+04
300
200
100
0
−100
−200
−300
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −144.2
Std Dev 162.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean −0.01083
Std Dev 0.9949
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

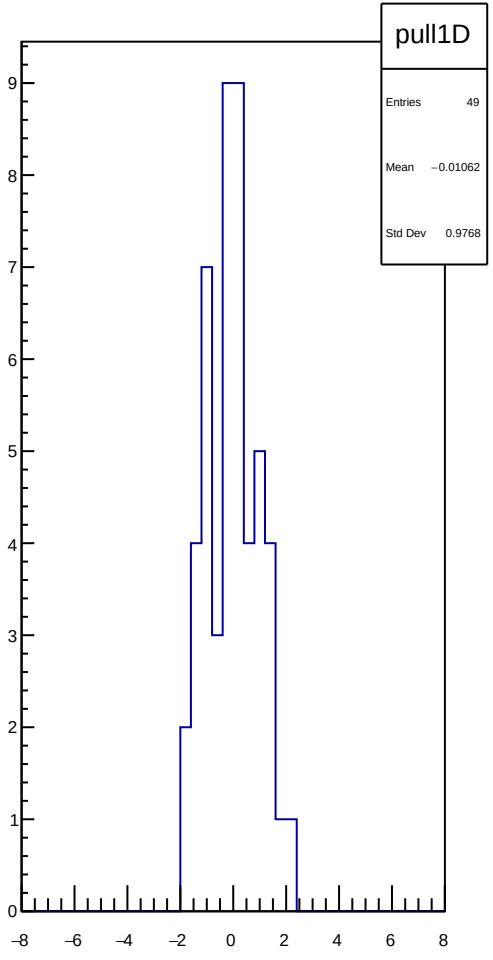

reg_asym_atr1_rms vs run
χ² / ndf 50.15 / 48
p0 8902 ± 8.961
9100
9050
9000
8950
8900
8850
8800
8750
8700
8650
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

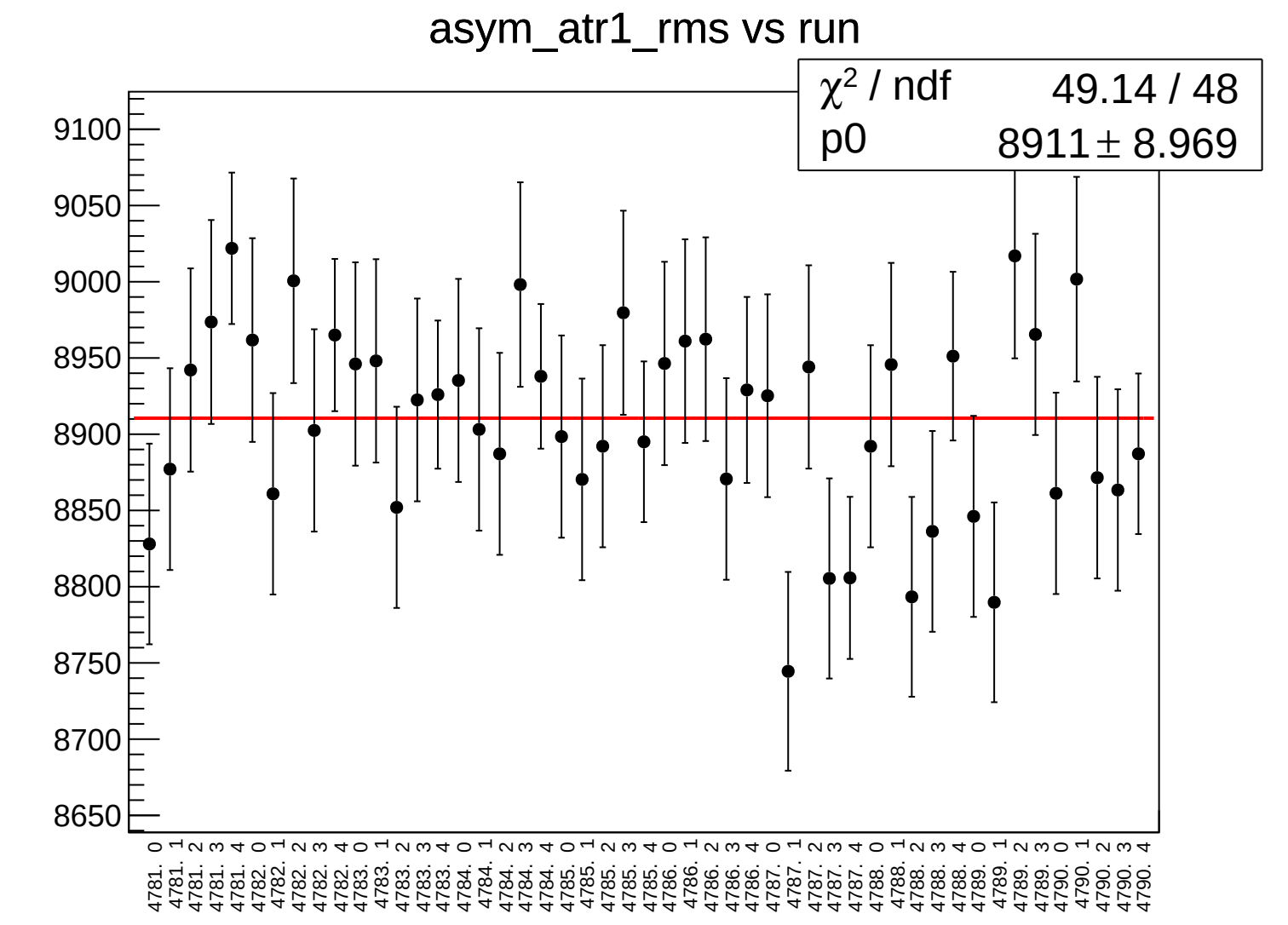

asym_atr1_correction_mean vs run
χ² / ndf 28.36 / 48
p0 1916 ± 515.9
15000
10000
5000
0
−5000
−10000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −24.97
Std Dev 48.74
2
1.5
1
0.5
0
−0.5
−1
−1.5

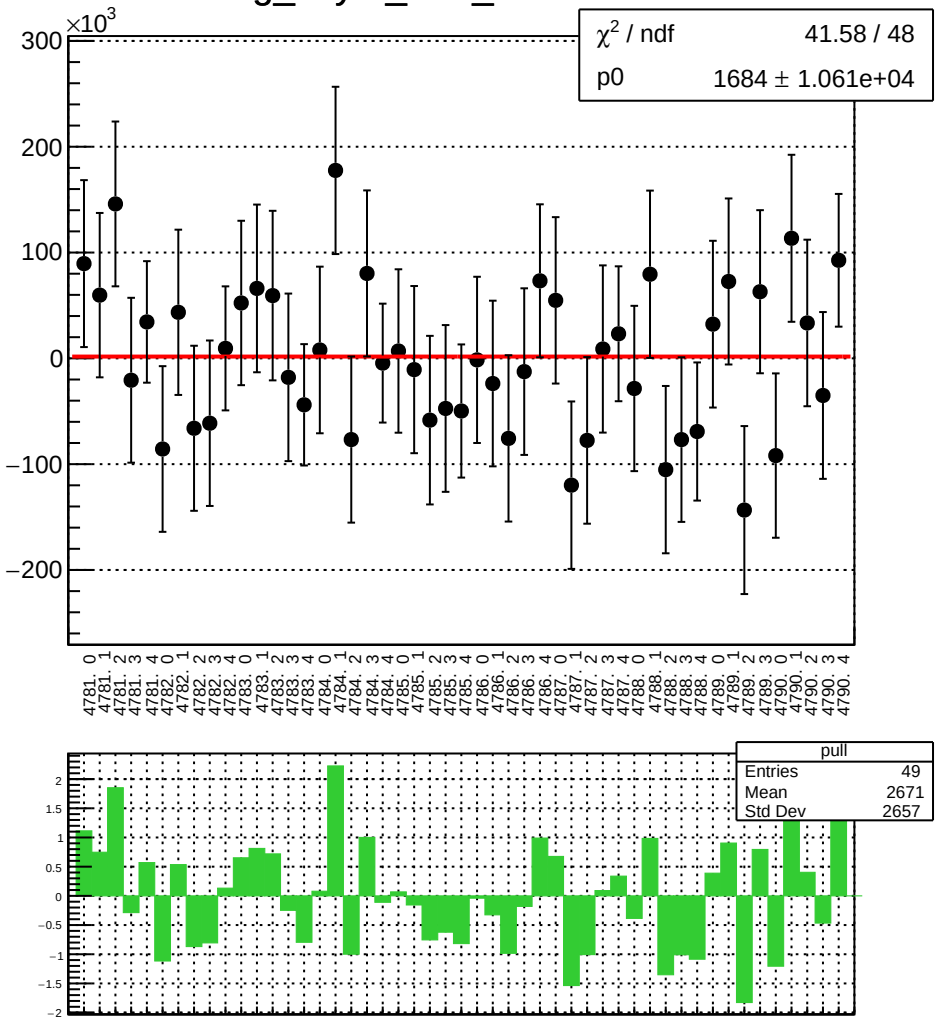

pull1D
Entries 49
Mean 0.01044
Std Dev 0.7607
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

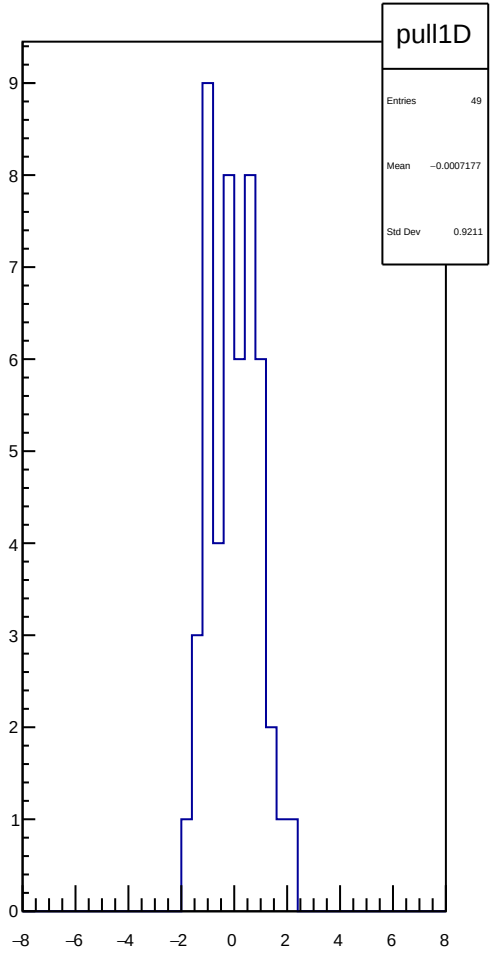

asym_atr1_correction_rms vs run
χ² / ndf 4.49e+04 / 48
p0 354.1 ± 0.3648
550
500
450
400
350
300
250
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

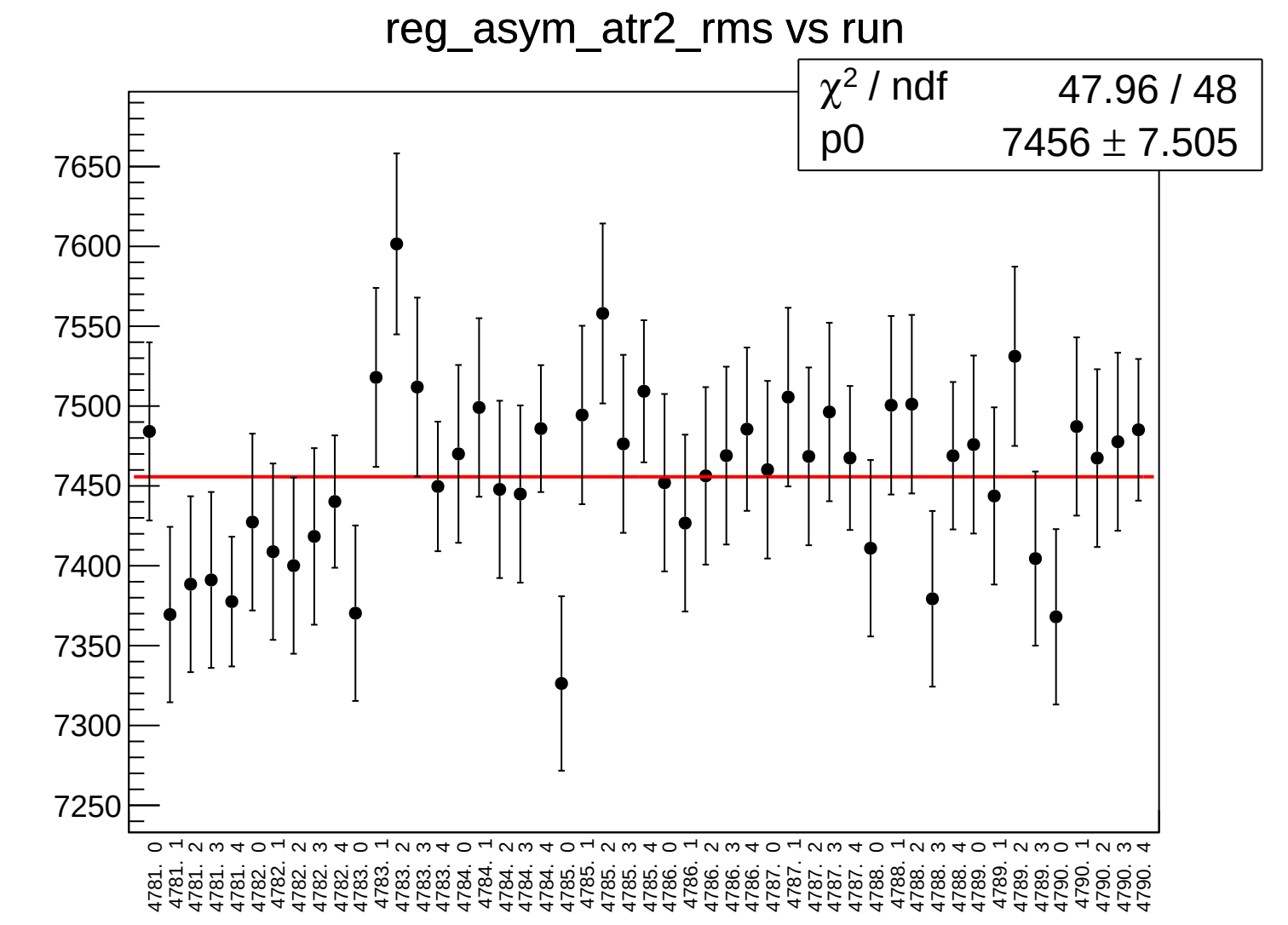

asym_atr1_mean vs run
×10^3
χ² / ndf 46.75 / 48
p0 2205 ± 1.268e+04
300
200
100
0
−100
−200
−300
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −146.1
Std Dev 163.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

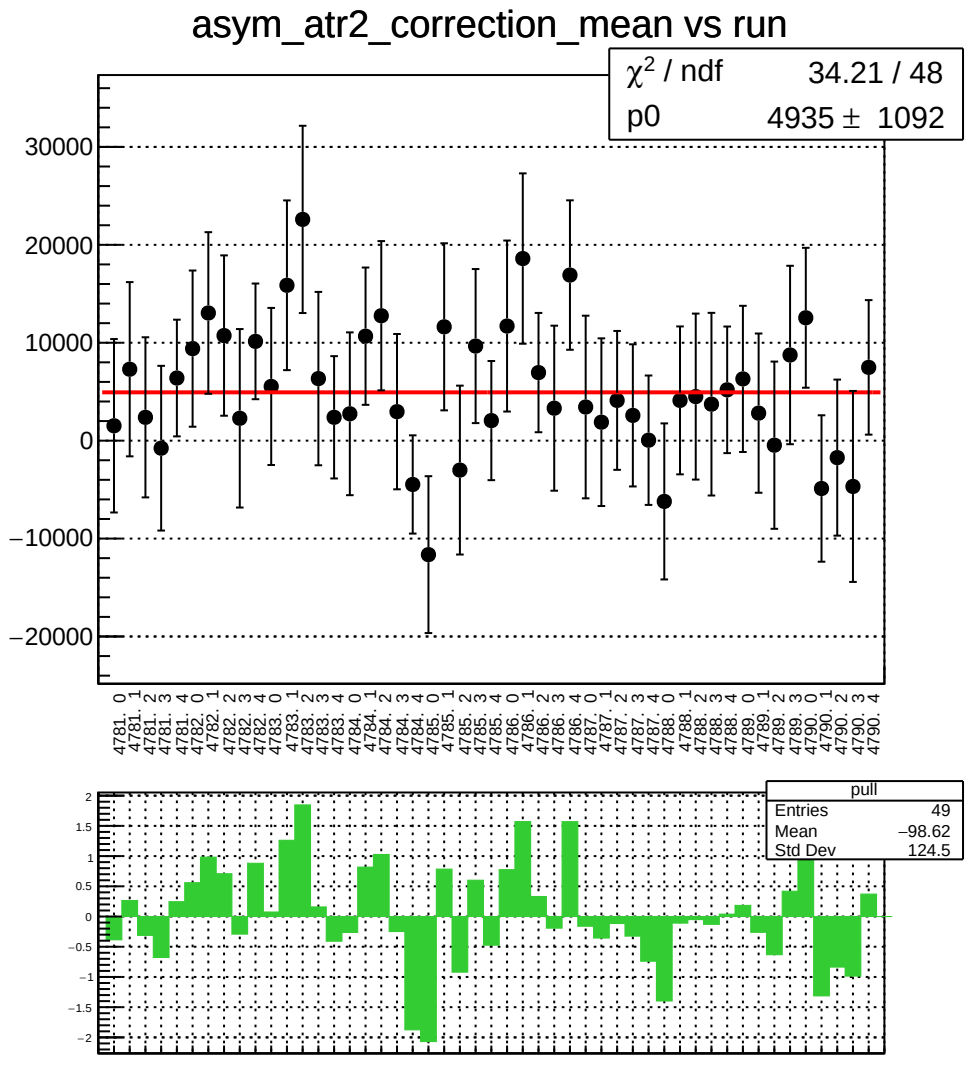

pull1D
Entries 49
Mean −0.01062
Std Dev 0.9768
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

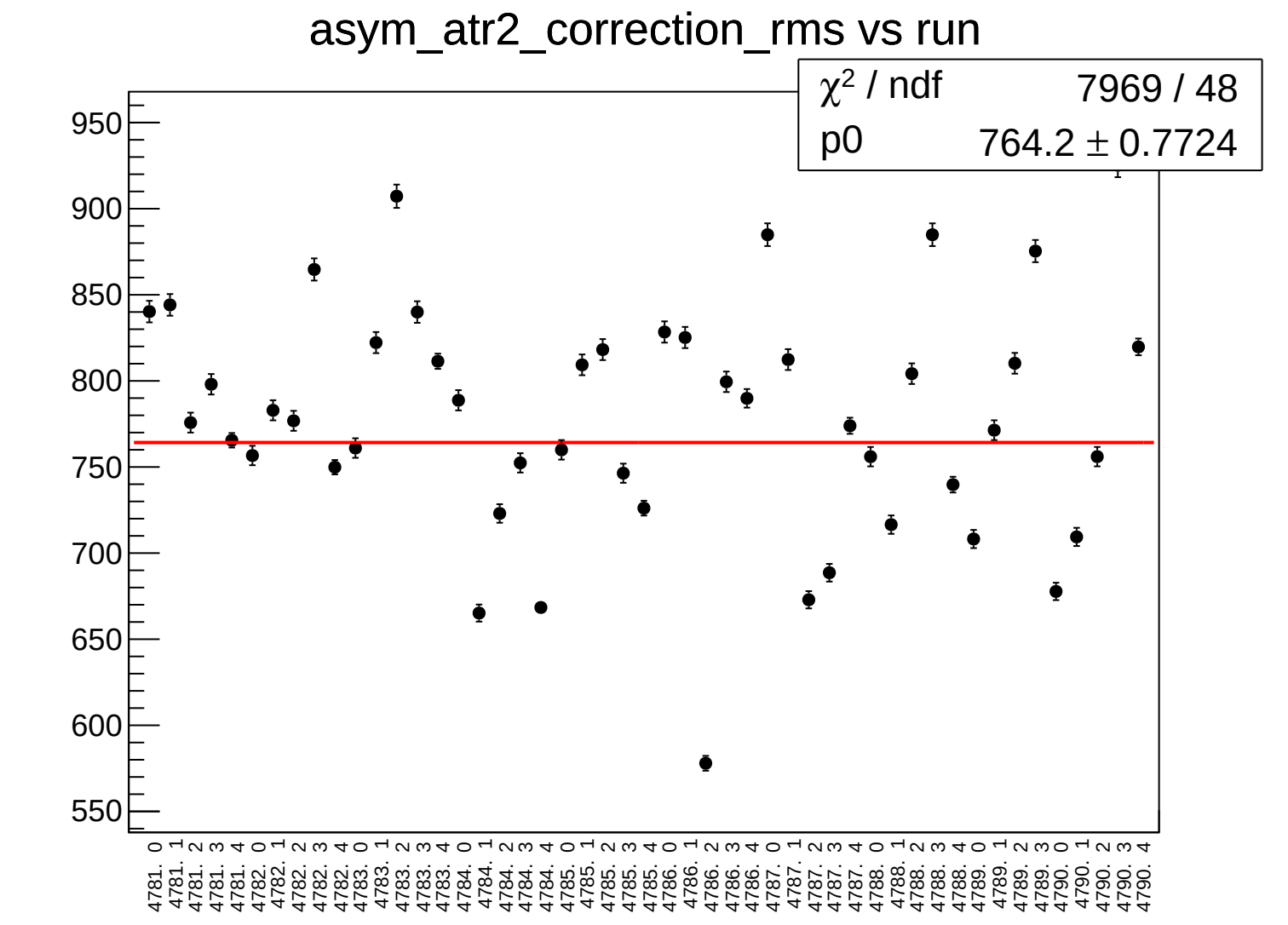

asym_atr1_rms vs run
χ² / ndf 49.14 / 48
p0 8911 ± 8.969
9100
9050
9000
8950
8900
8850
8800
8750
8700
8650
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

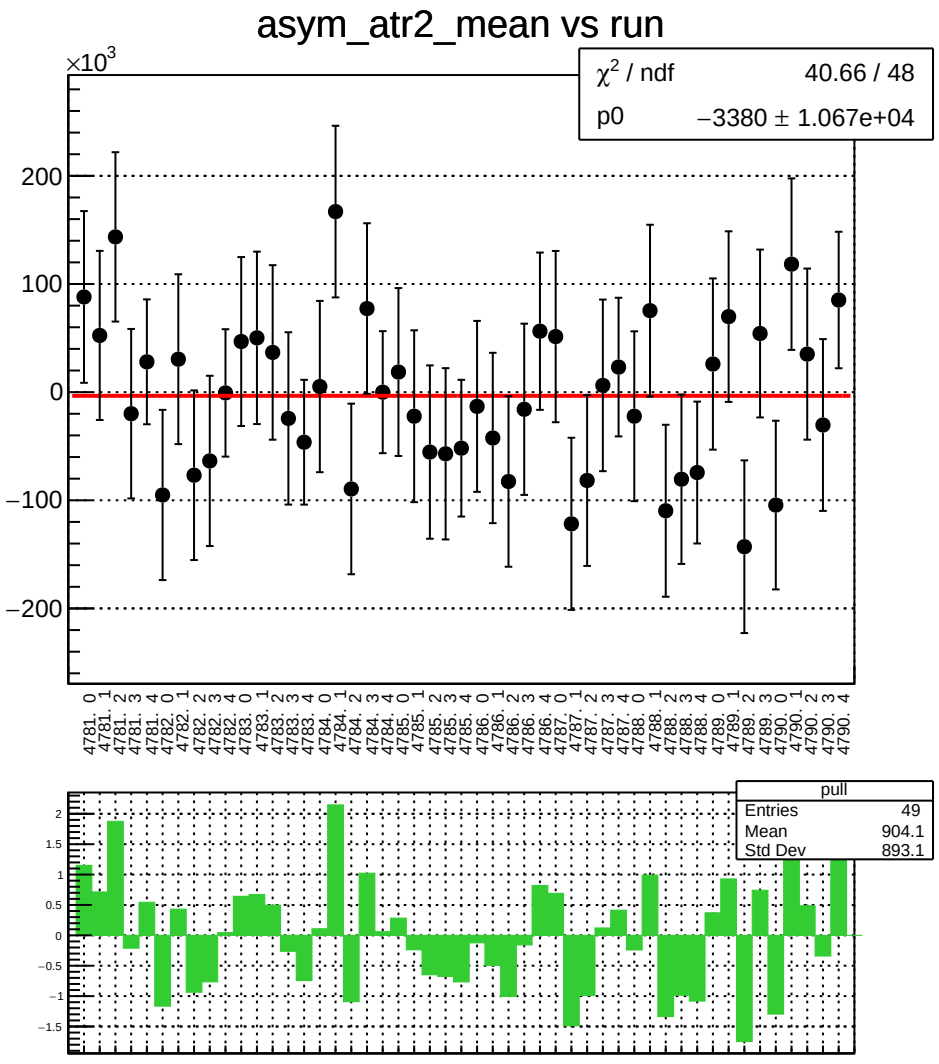

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 41.58 / 48
p0 1684 ± 1.061e+04
pull
Entries 49
Mean 2671
Std Dev 2657

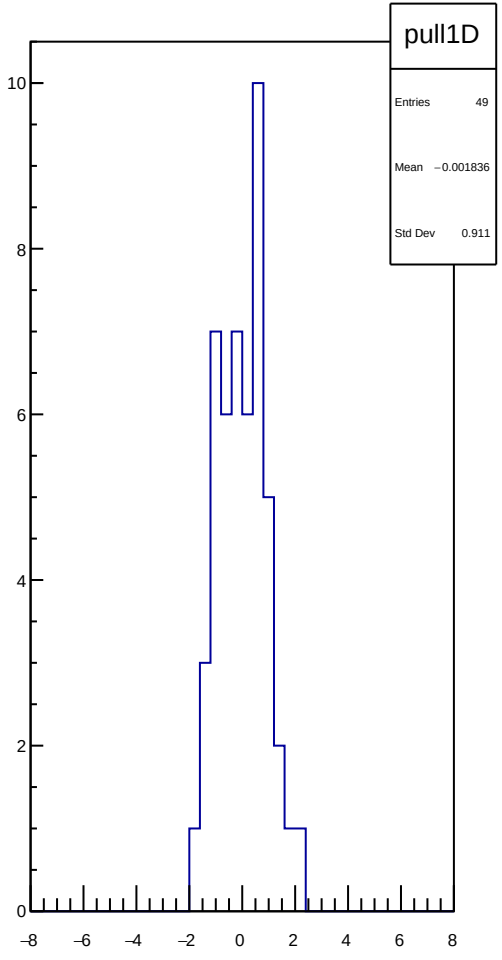

pull1D
Entries 49
Mean −0.0007177
Std Dev 0.9211

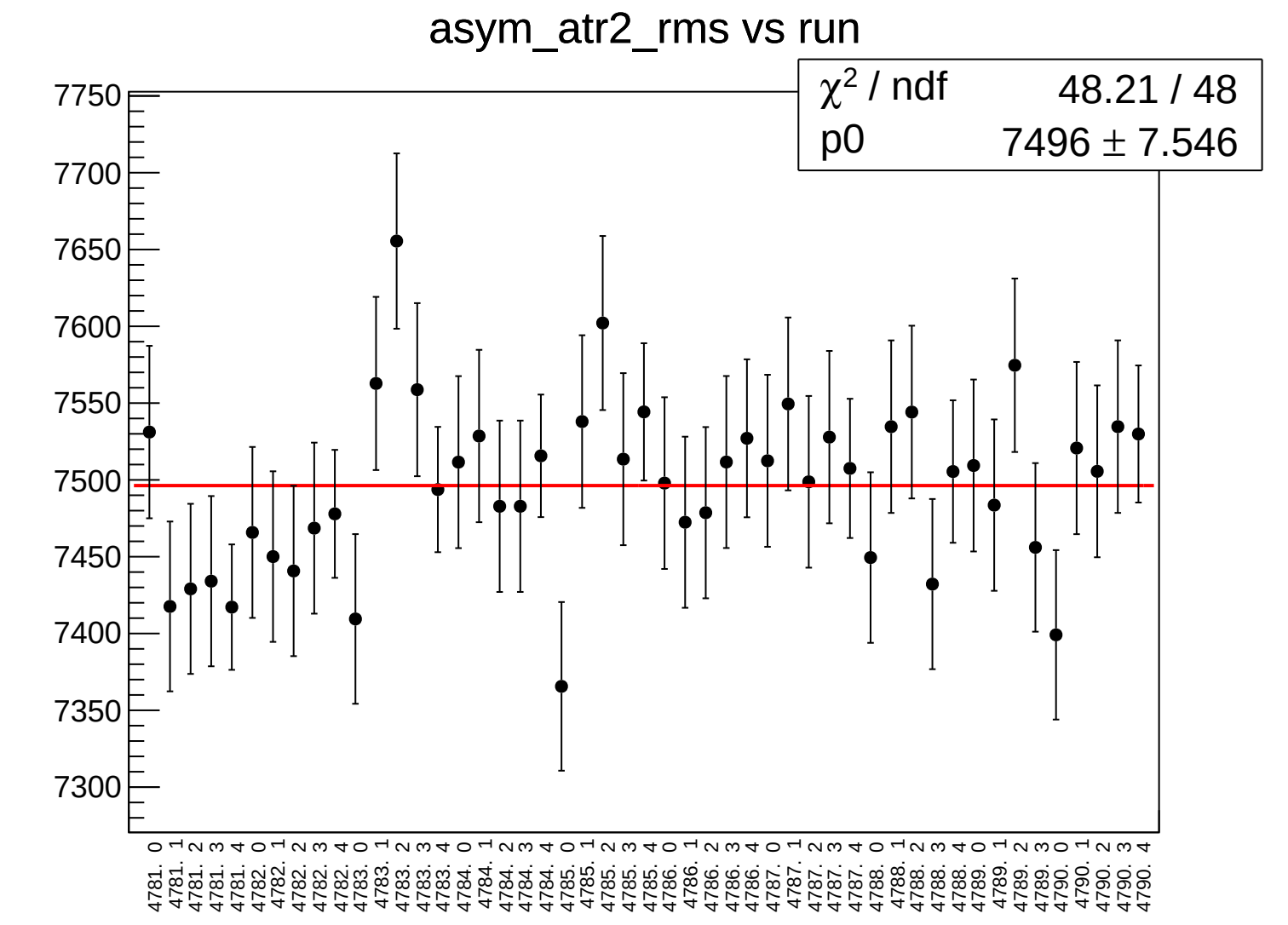

reg_asym_atr2_rms vs run
χ² / ndf 47.96 / 48
p0 7456 ± 7.505
7650
7600
7550
7500
7450
7400
7350
7300
7250
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

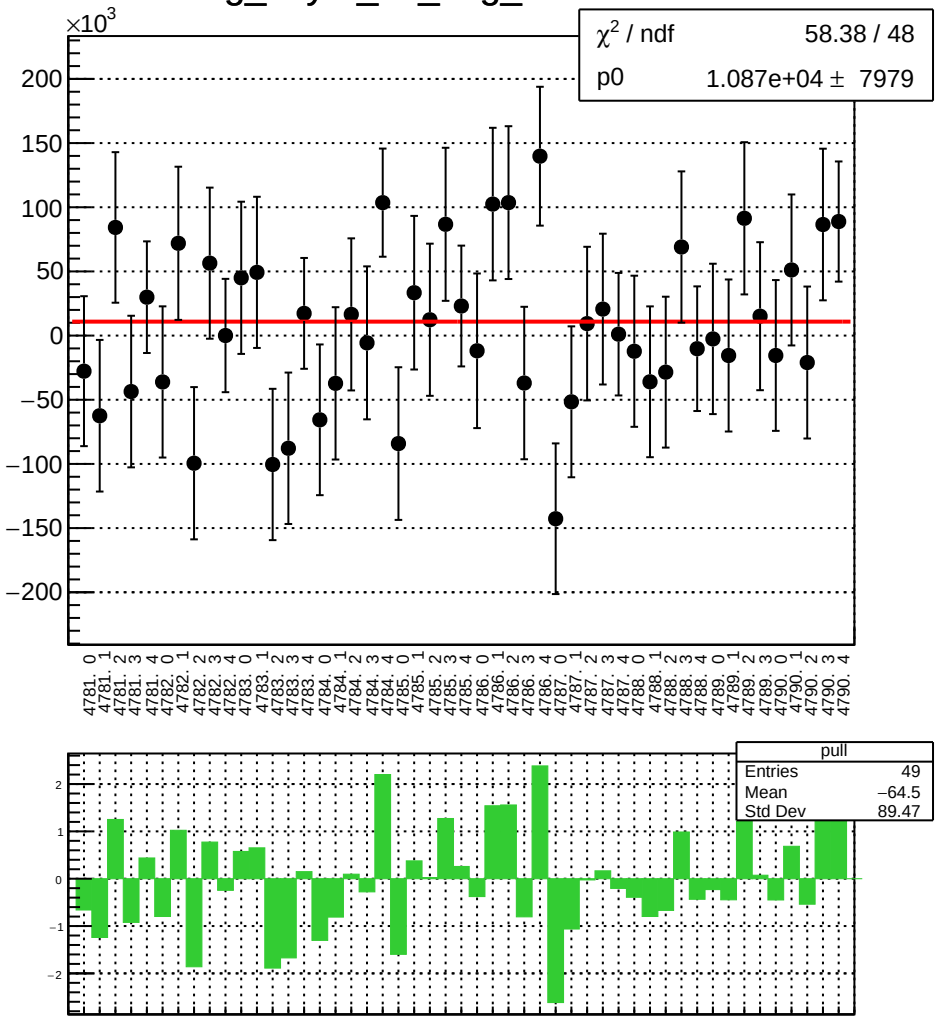

asym_atr2_correction_mean vs run
χ² / ndf 34.21 / 48
p0 4935 ± 1092
30000
20000
10000
0
−10000
−20000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −98.62
Std Dev 124.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean 0.02069
Std Dev 0.8353
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

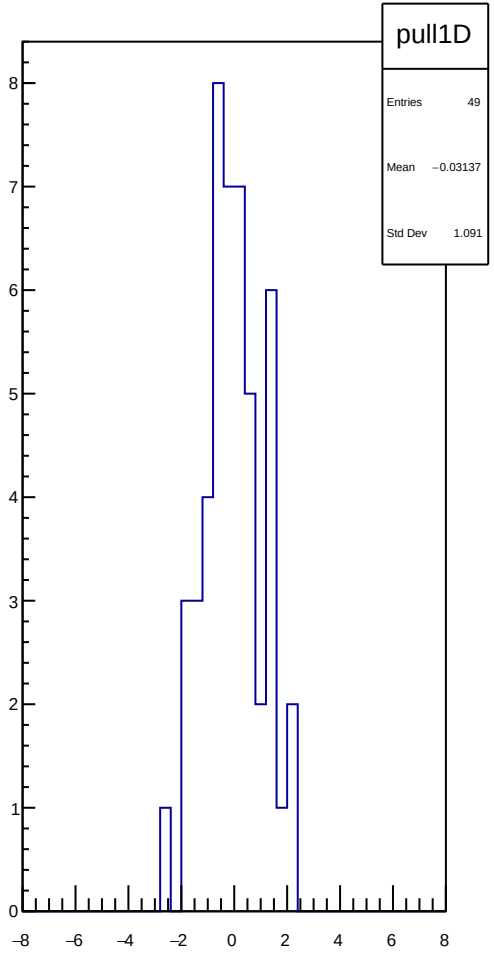

asym_atr2_correction_rms vs run
χ² / ndf 7969 / 48
p0 764.2 ± 0.7724
950
900
850
800
750
700
650
600
550
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

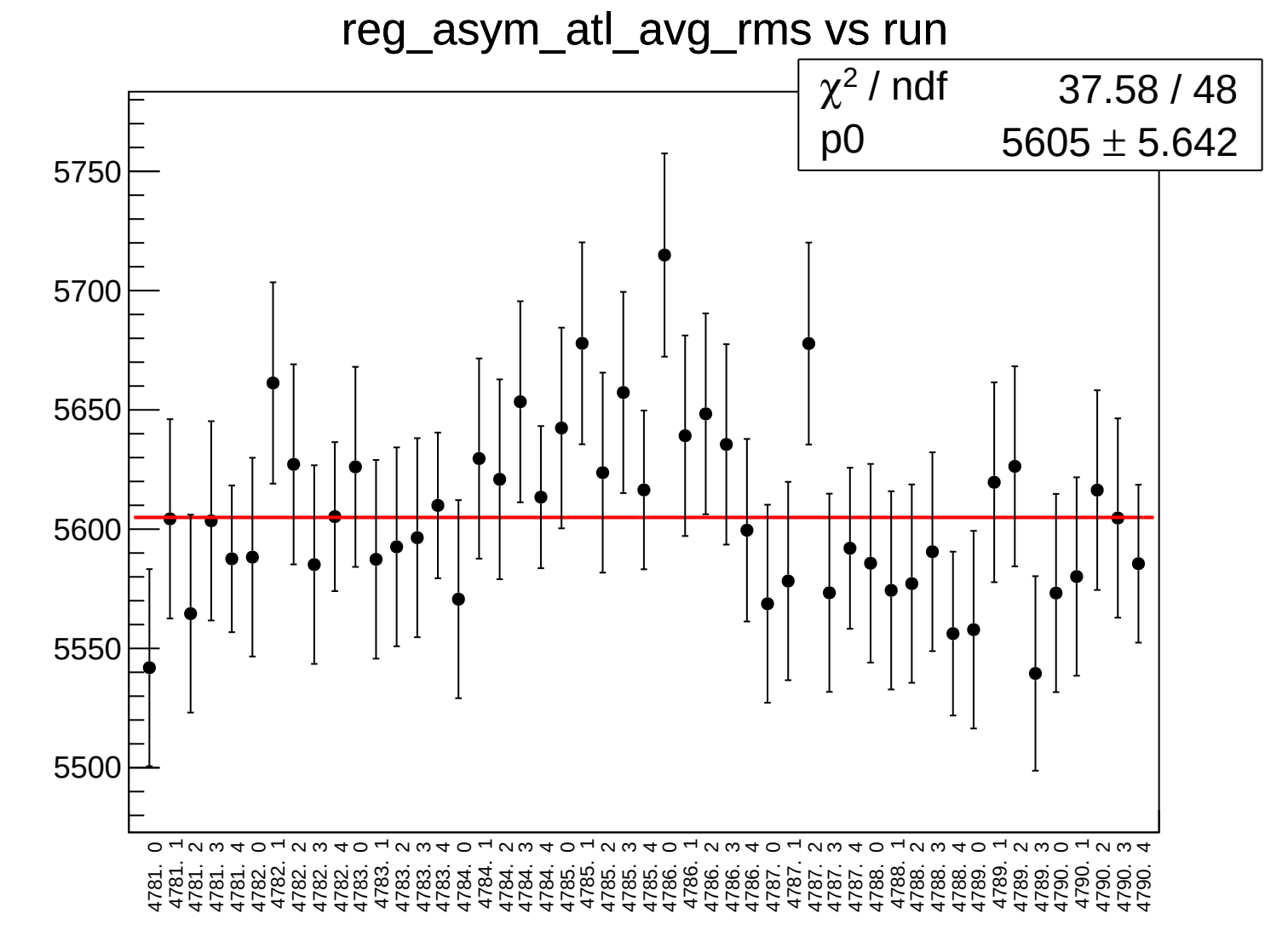

asym_atr2_mean vs run
×10^3
χ² / ndf 40.66 / 48
p0 −3380 ± 1.067e+04
200
100
0
−100
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 904.1
Std Dev 893.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

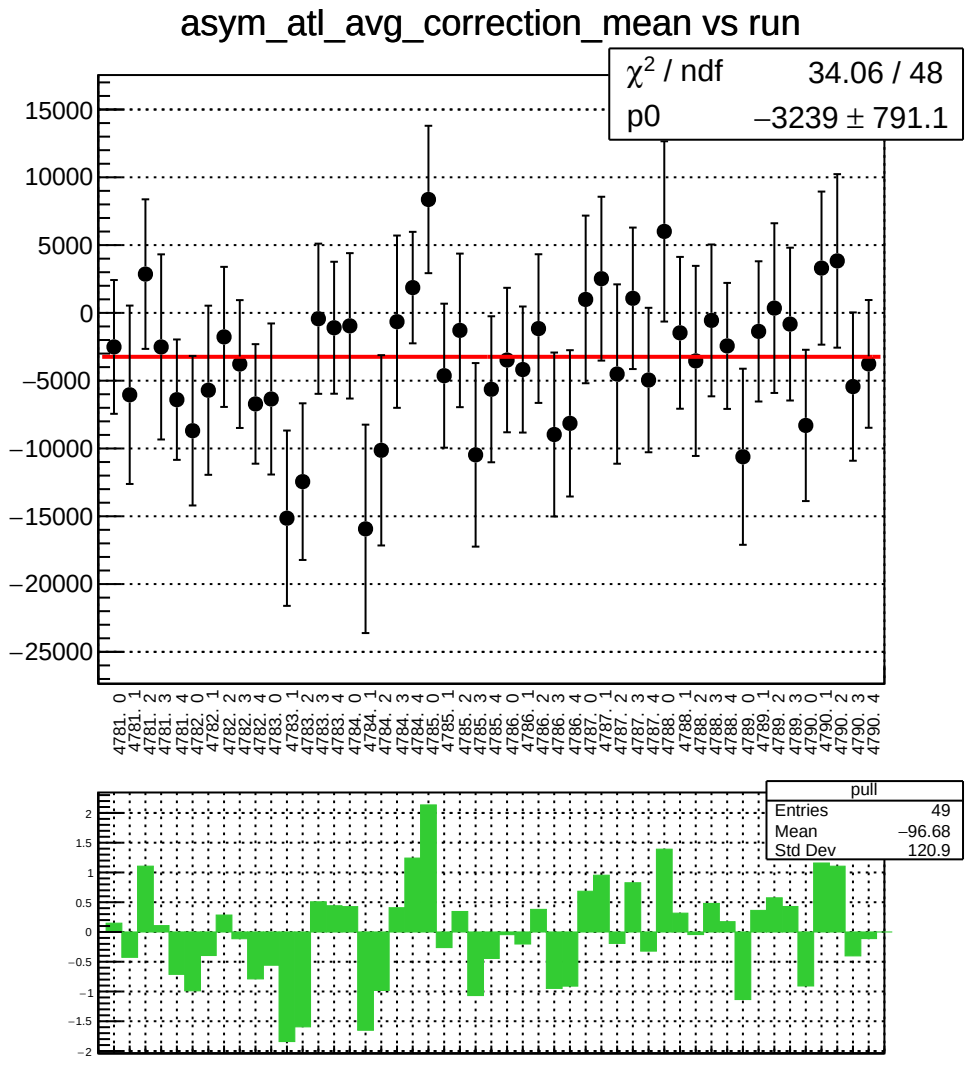

pull1D
Entries 49
Mean −0.001836
Std Dev 0.911
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

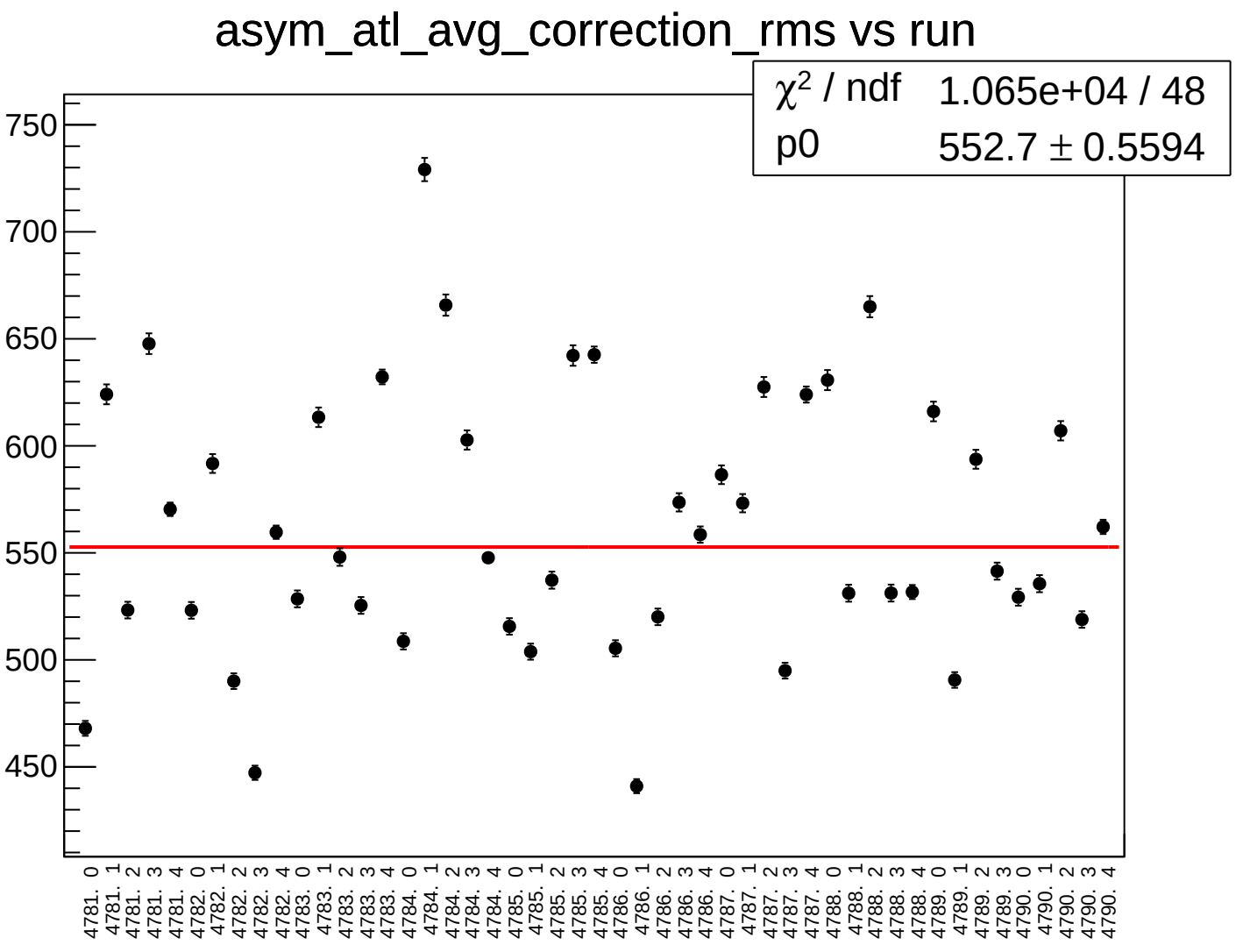

asym_atr2_rms vs run
χ² / ndf 48.21 / 48
p0 7496 ± 7.546
7750
7700
7650
7600
7550
7500
7450
7400
7350
7300
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

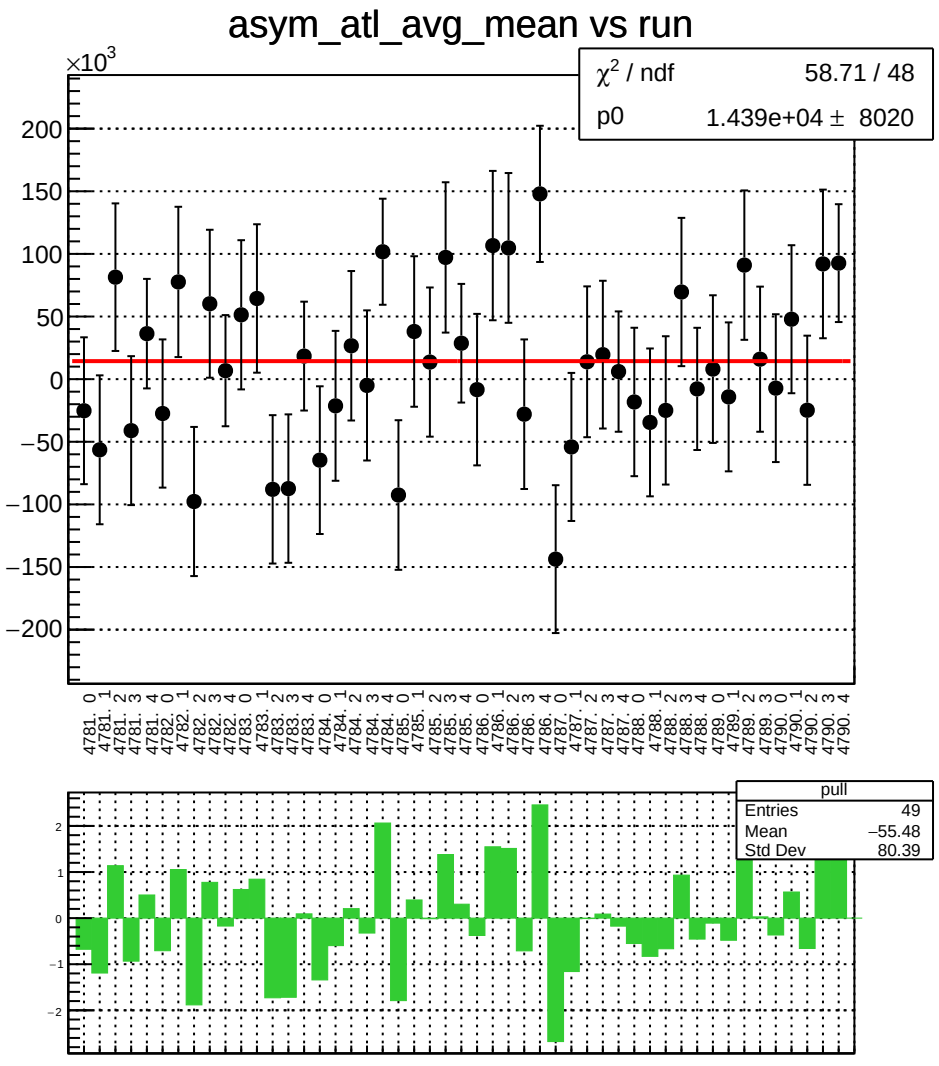

reg_asym_atl_avg_mean vs run
×10^3
χ² / ndf 58.38 / 48
p0 1.087e+04 ± 7979
pull
Entries 49
Mean −64.5
Std Dev 89.47

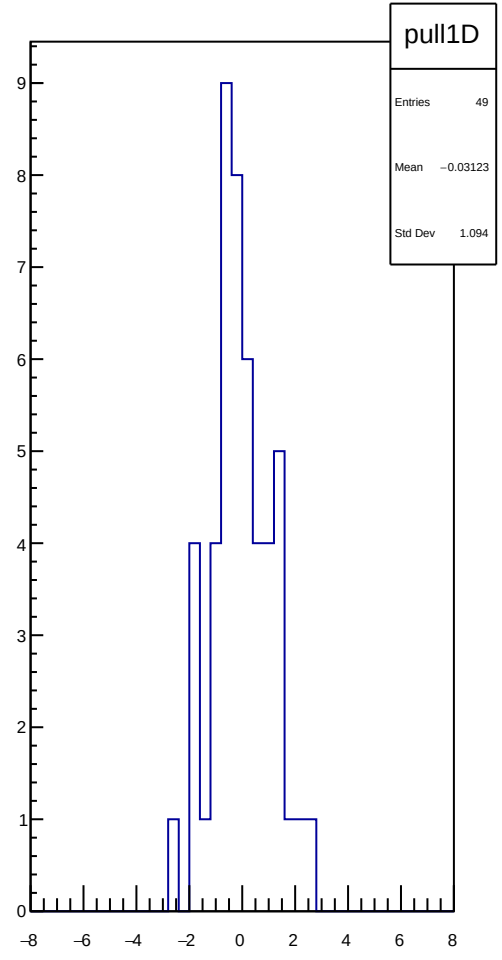

pull1D
Entries 49
Mean −0.03137
Std Dev 1.091

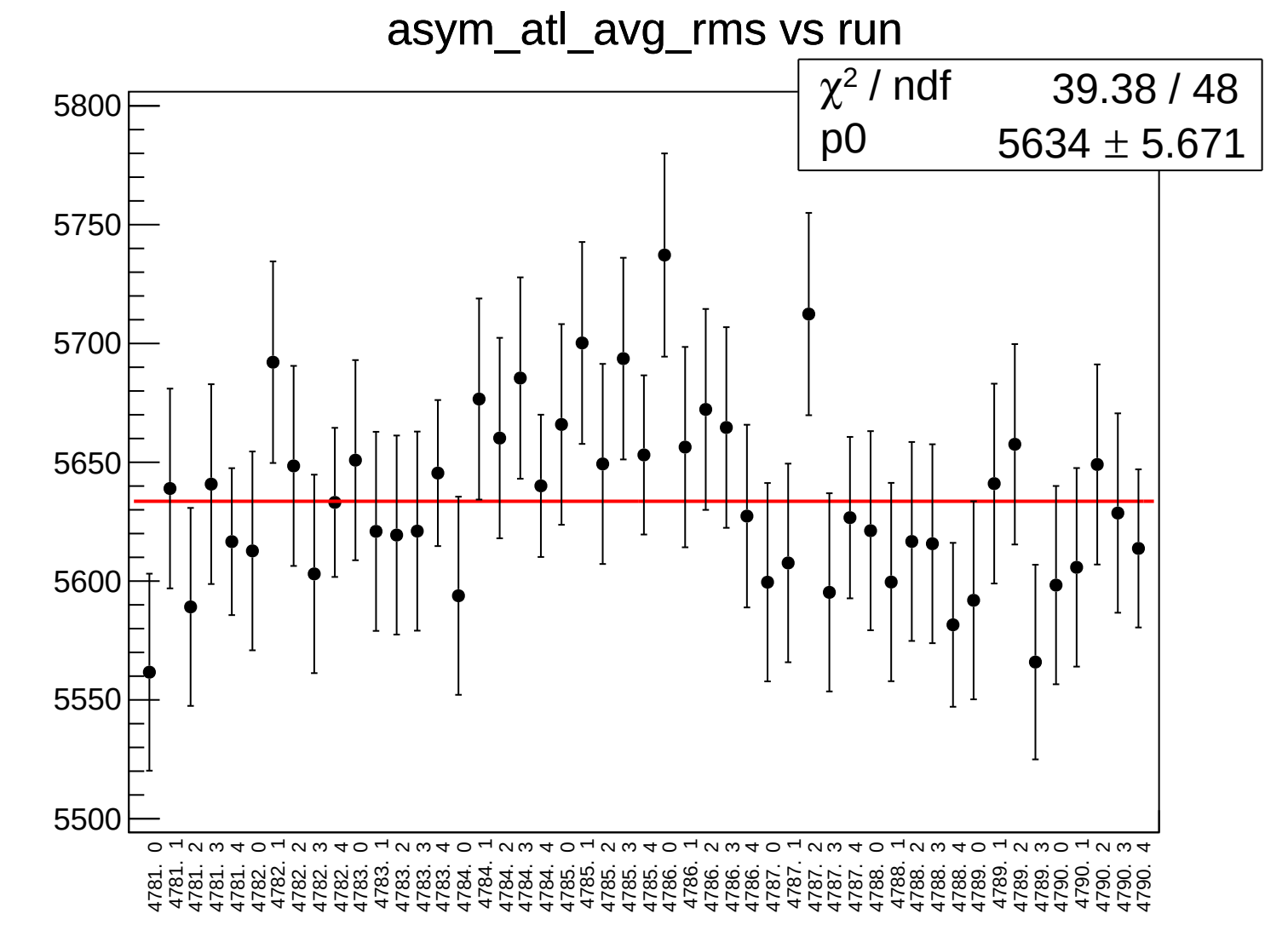

reg_asym_atl_avg_rms vs run
χ^2 / ndf 37.58 / 48
p0 5605 ± 5.642
5750
5700
5650
5600
5550
5500
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

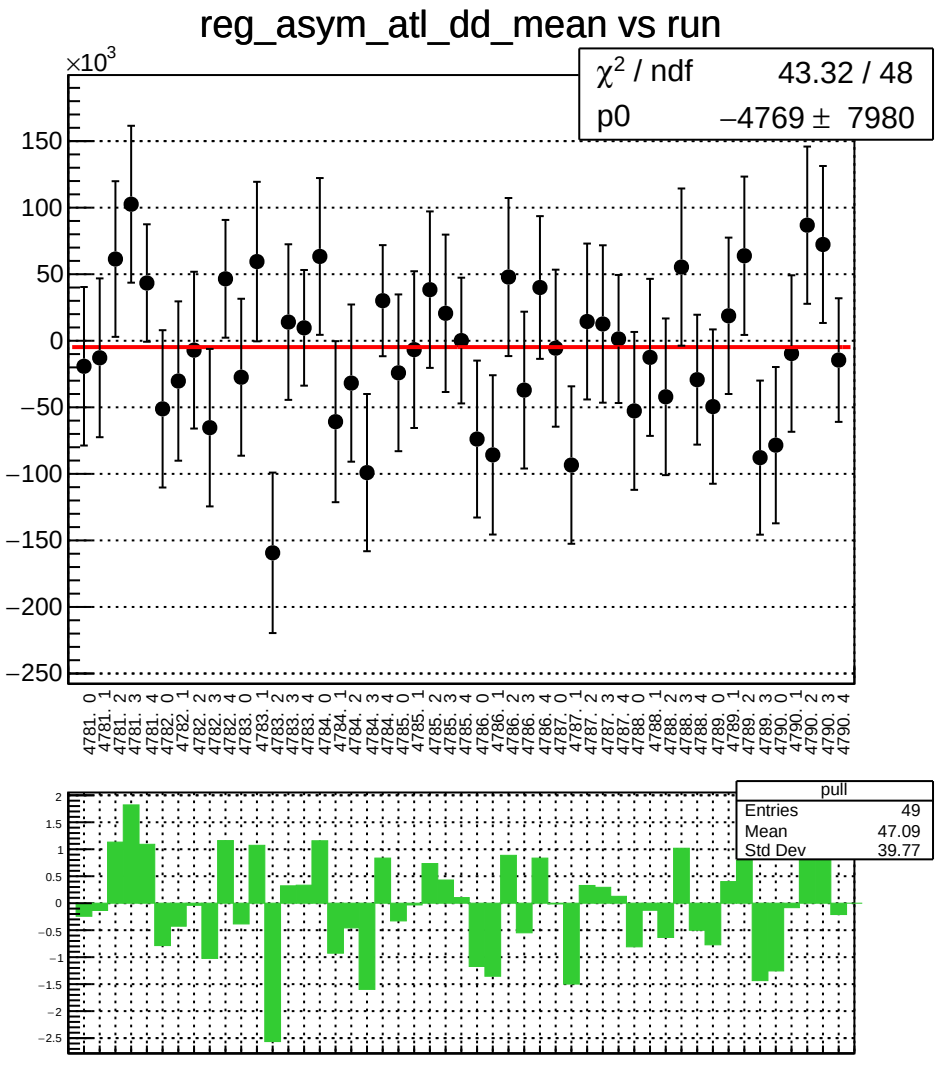

asym_atl_avg_correction_mean vs run
χ² / ndf 34.06 / 48
p0 −3239 ± 791.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −96.68
Std Dev 120.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean −0.02164
Std Dev 0.8334
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

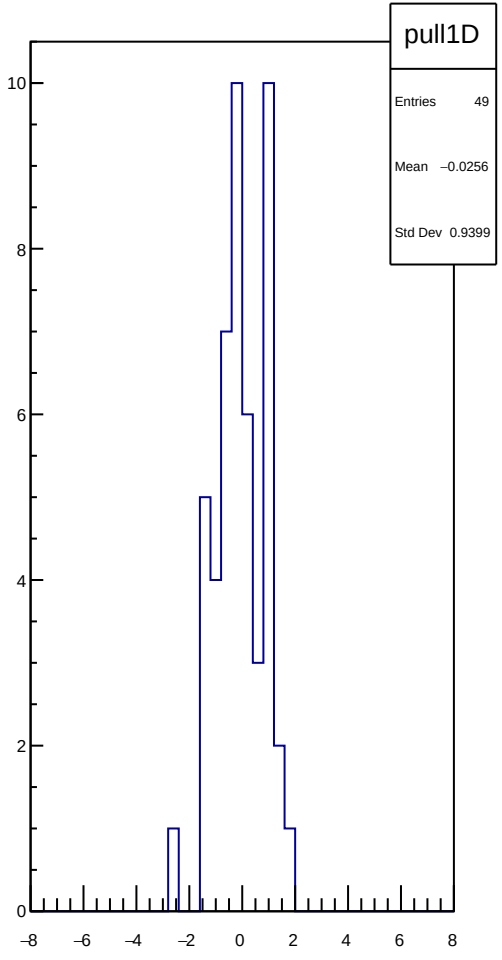

asym_atl_avg_correction_rms vs run
χ² / ndf 1.065e+04 / 48
p0 552.7 ± 0.5594
750
700
650
600
550
500
450
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

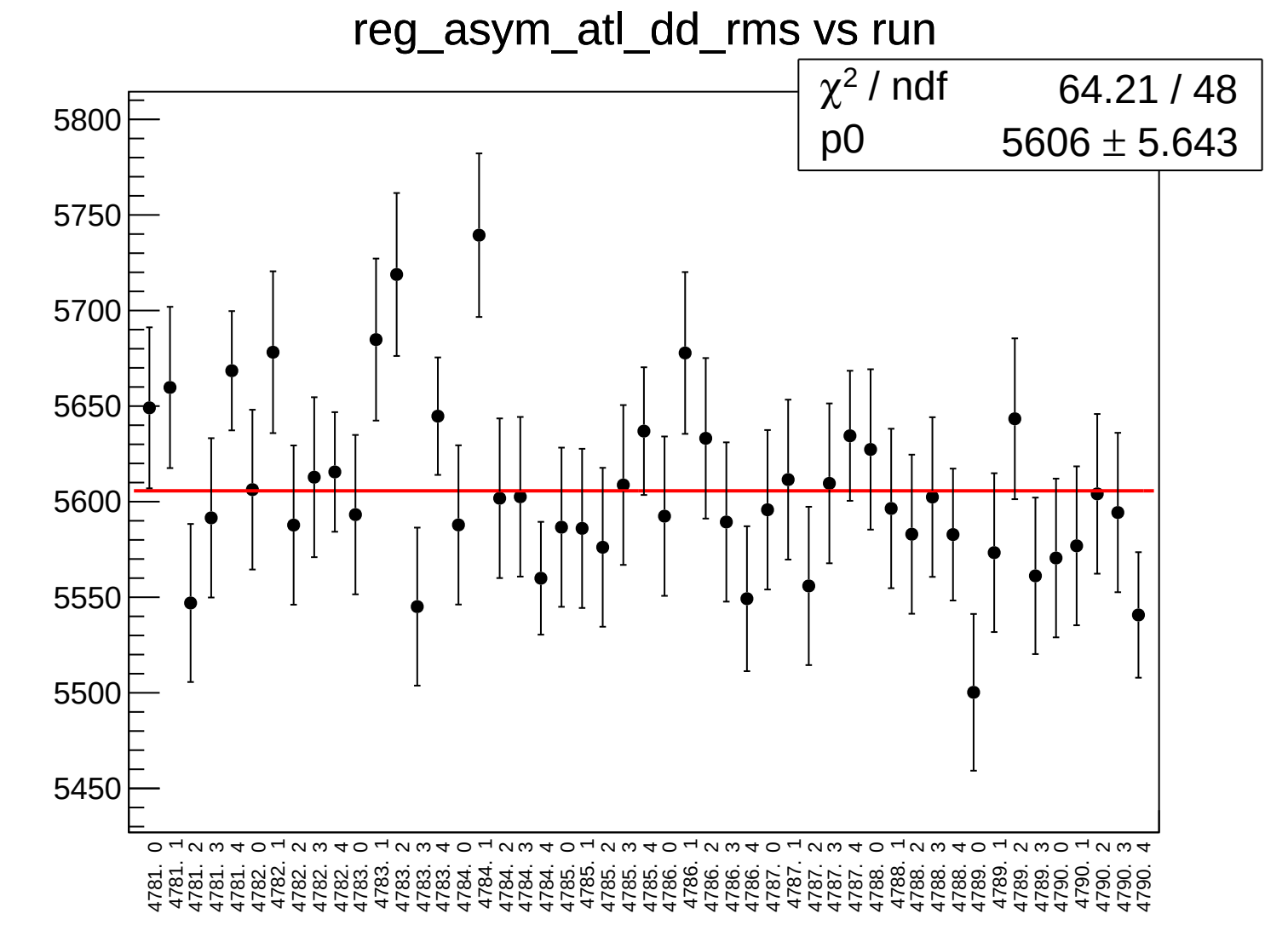

asym_atl_avg_mean vs run
×10^3
χ² / ndf 58.71 / 48
p0 1.439e+04 ± 8020
200
150
100
50
0
−50
−100
−150
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −55.48
Std Dev 80.39
2
1
0
−1
−2

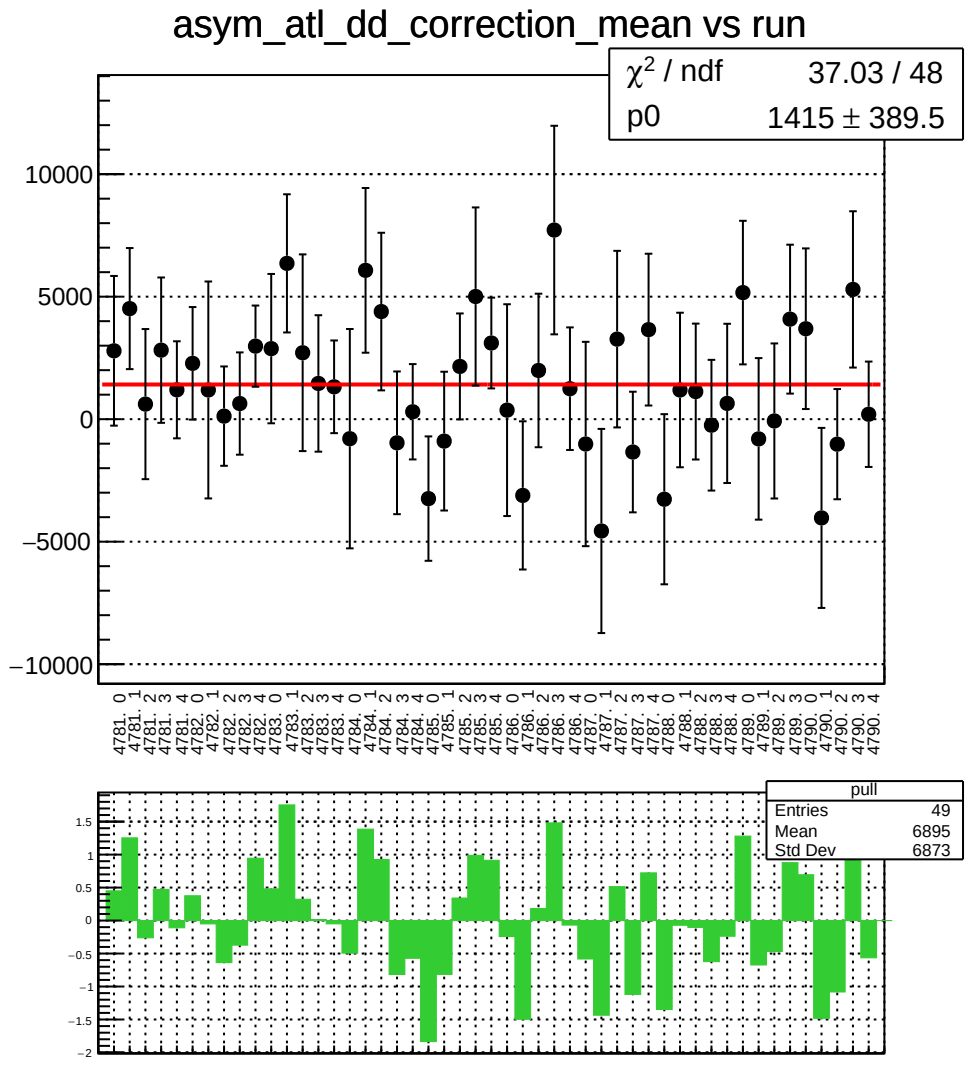

pull1D
Entries 49
Mean −0.03123
Std Dev 1.094
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

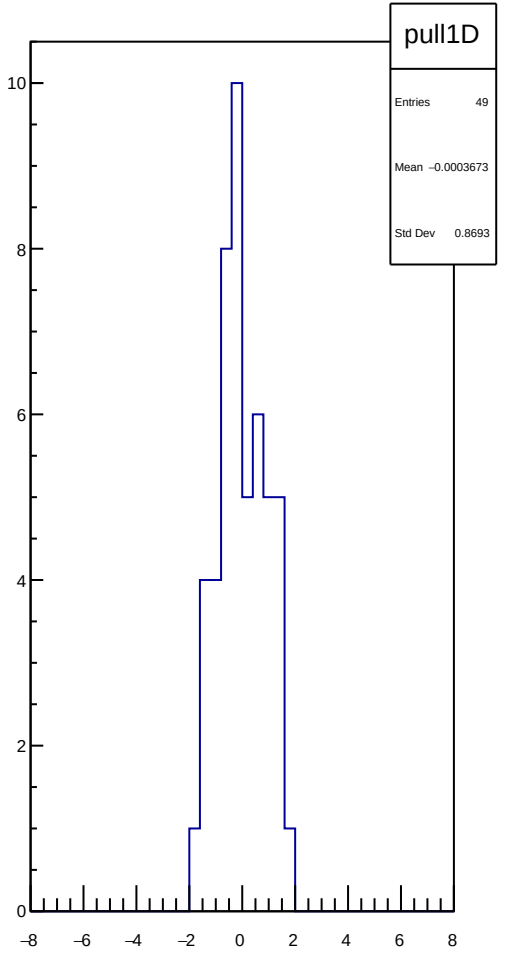

asym_atl_avg_rms vs run
χ² / ndf 39.38 / 48
p0 5634 ± 5.671
5800
5750
5700
5650
5600
5550
5500
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

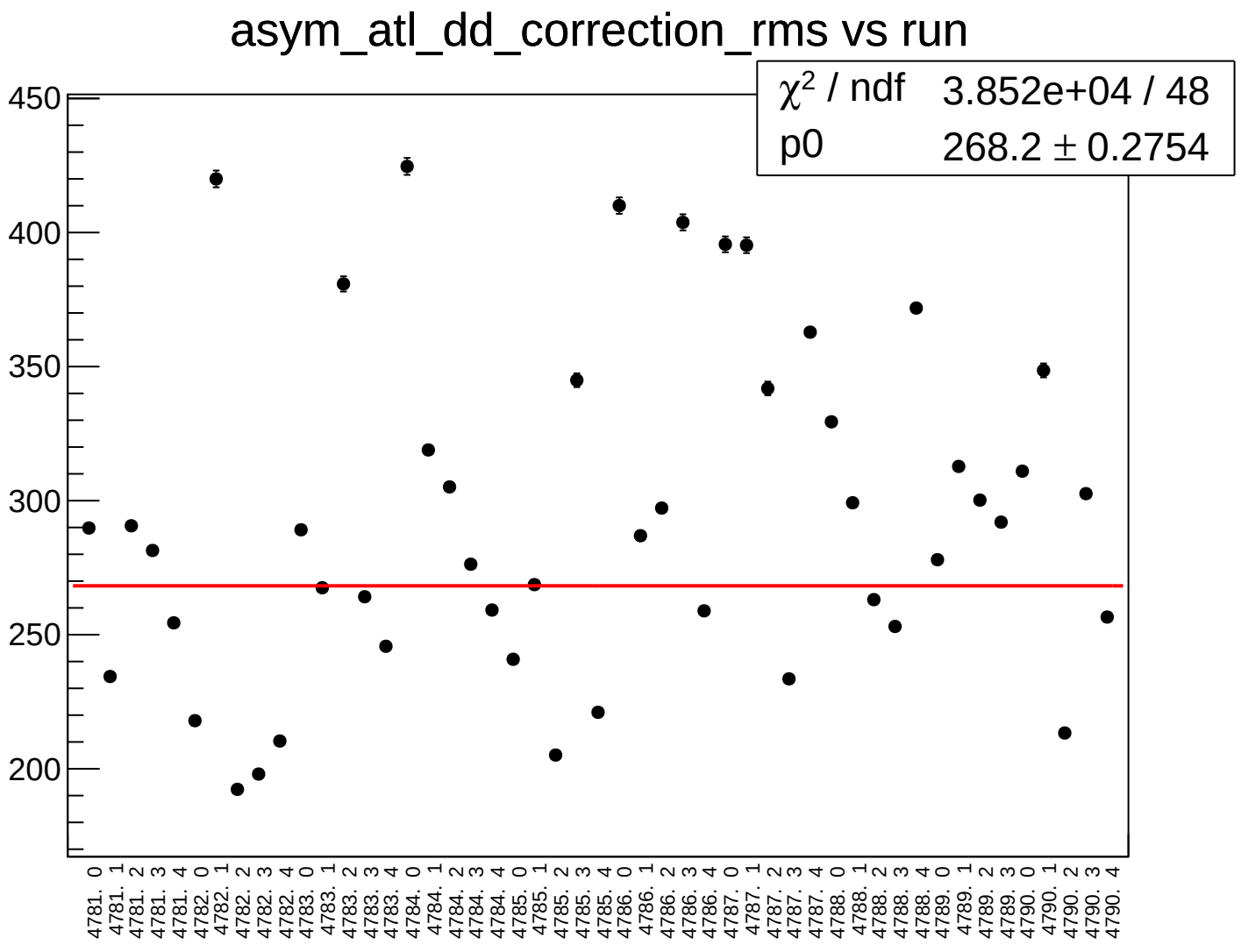

reg_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 43.32 / 48
p0 −4769 ± 7980
150
100
50
0
−50
−100
−150
−200
−250
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 47.09
Std Dev 39.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

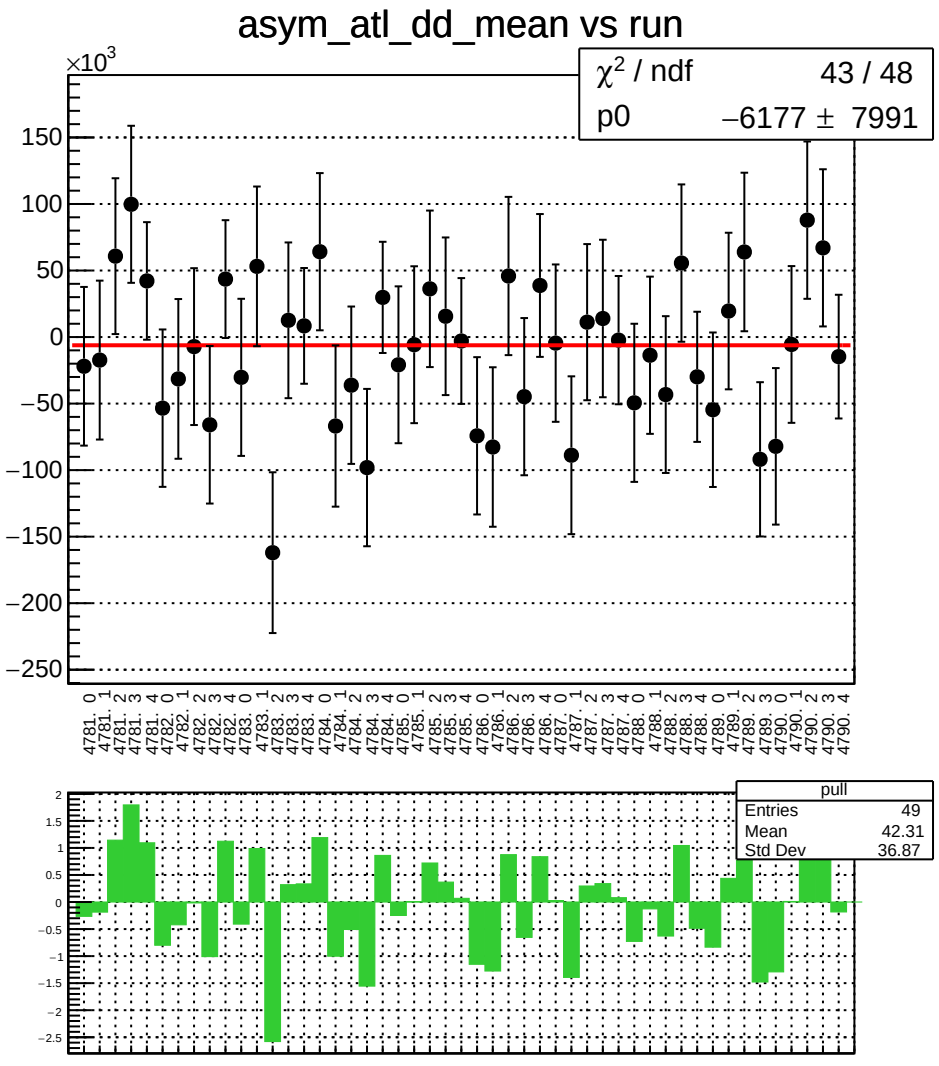

pull1D
Entries 49
Mean −0.0256
Std Dev 0.9399
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

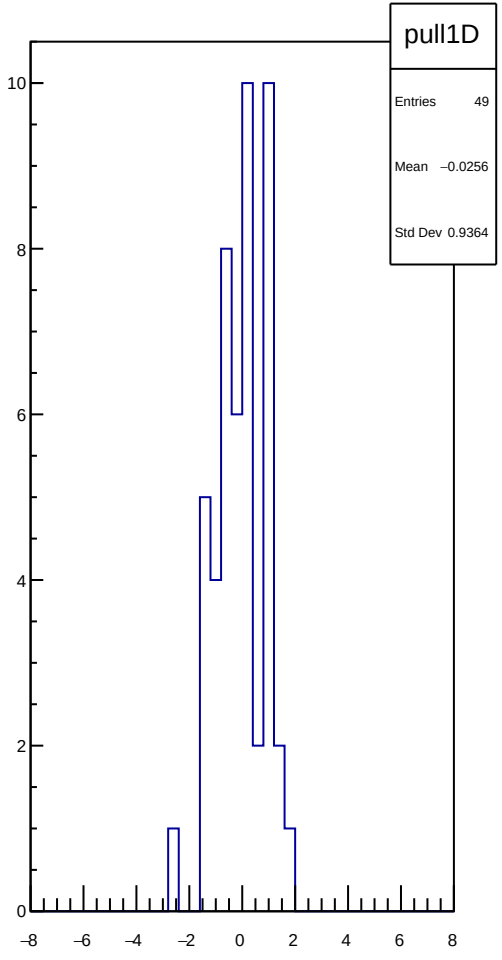

reg_asym_atl_dd_rms vs run
χ^2 / ndf 64.21 / 48
p0 5606 ± 5.643
5800
5750
5700
5650
5600
5550
5500
5450
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

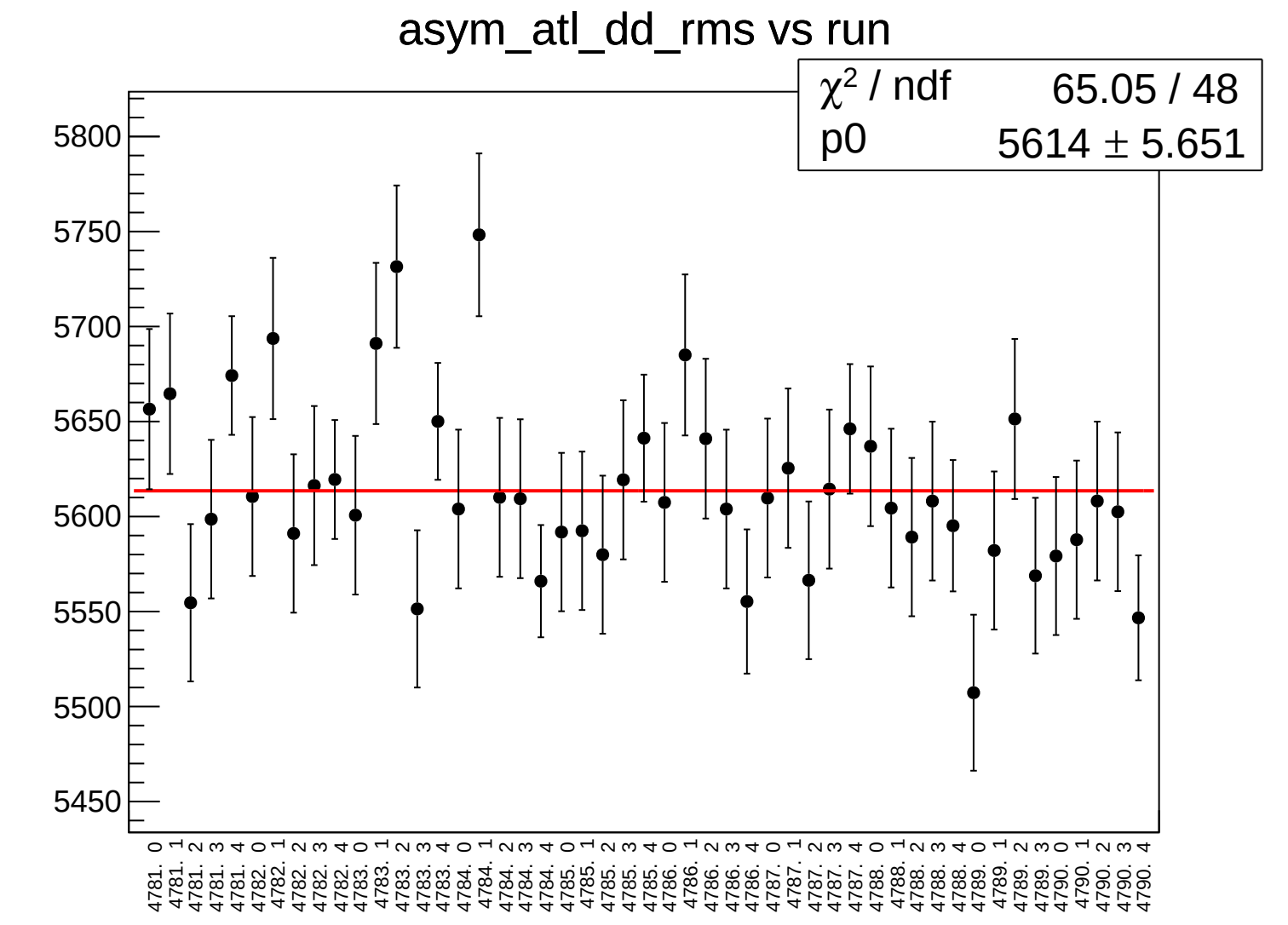

asym_atl_dd_correction_mean vs run
χ² / ndf 37.03 / 48
p0 1415 ± 389.5
10000
5000
0
−5000
−10000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 6895
Std Dev 6873
1.5
1
0.5
0
−0.5
−1
−1.5
−2

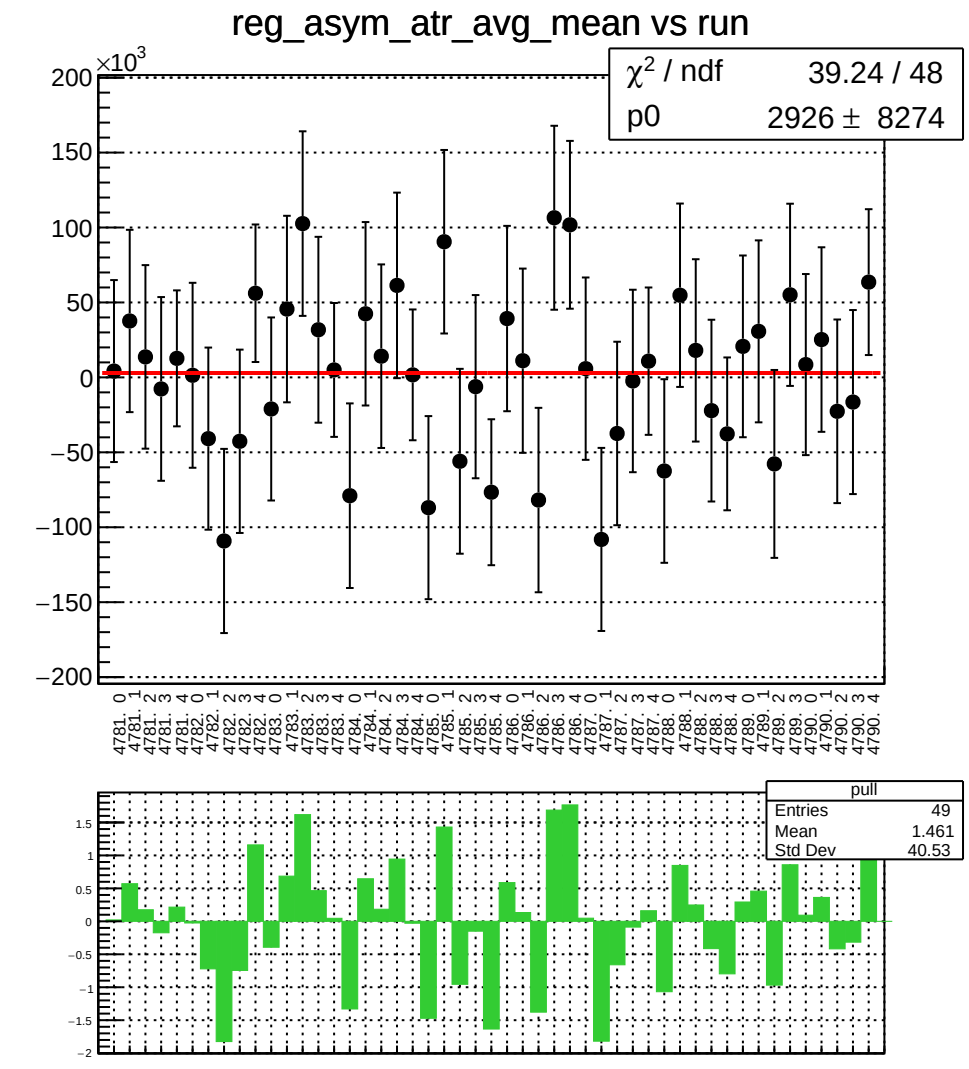

pull1D
Entries 49
Mean −0.0003673
Std Dev 0.8693
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

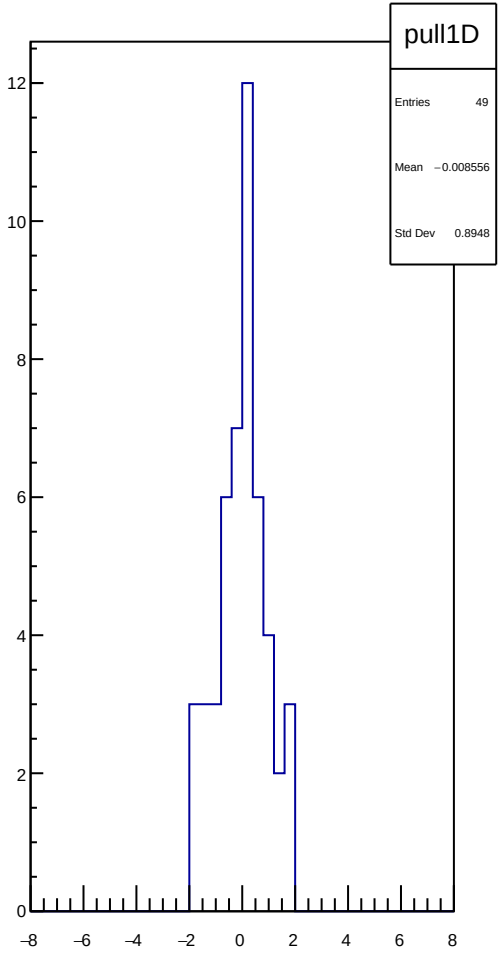

asym_atl_dd_correction_rms vs run
χ² / ndf 3.852e+04 / 48
p0 268.2 ± 0.2754
450
400
350
300
250
200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

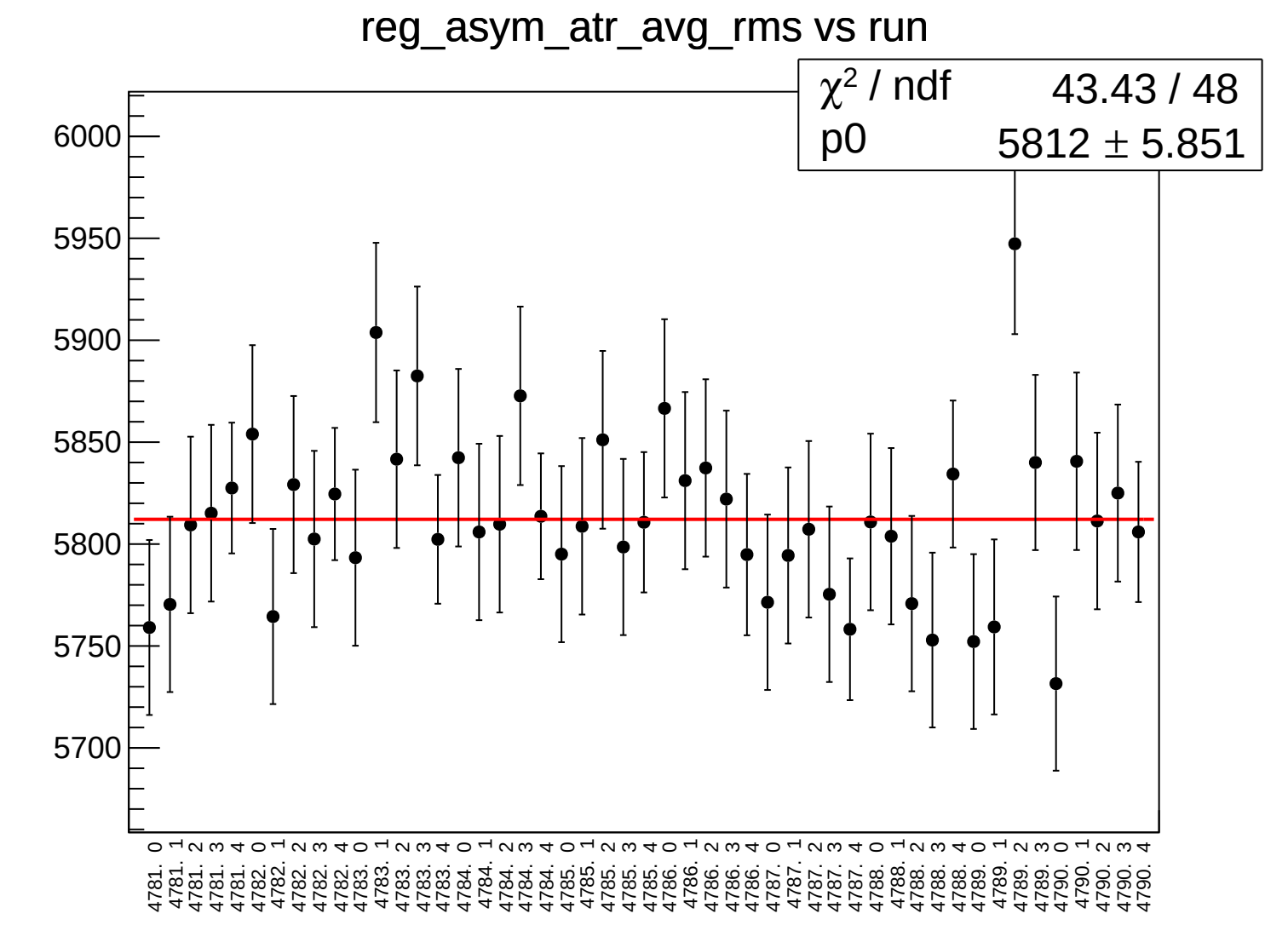

asym_atl_dd_mean vs run
×10^3
χ² / ndf 43 / 48
p0 −6177 ± 7991
150
100
50
0
−50
−100
−150
−200
−250
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 42.31
Std Dev 36.87
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

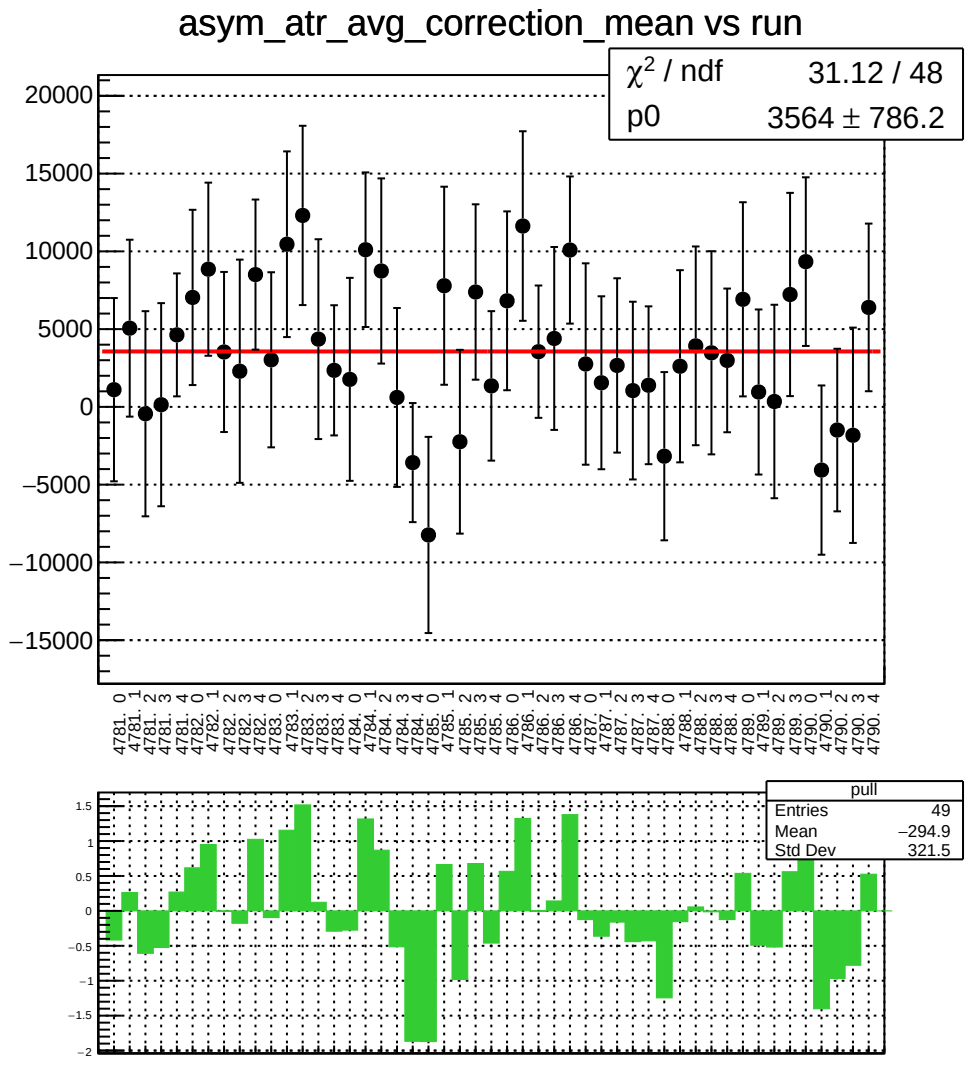

pull1D
Entries 49
Mean −0.0256
Std Dev 0.9364
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

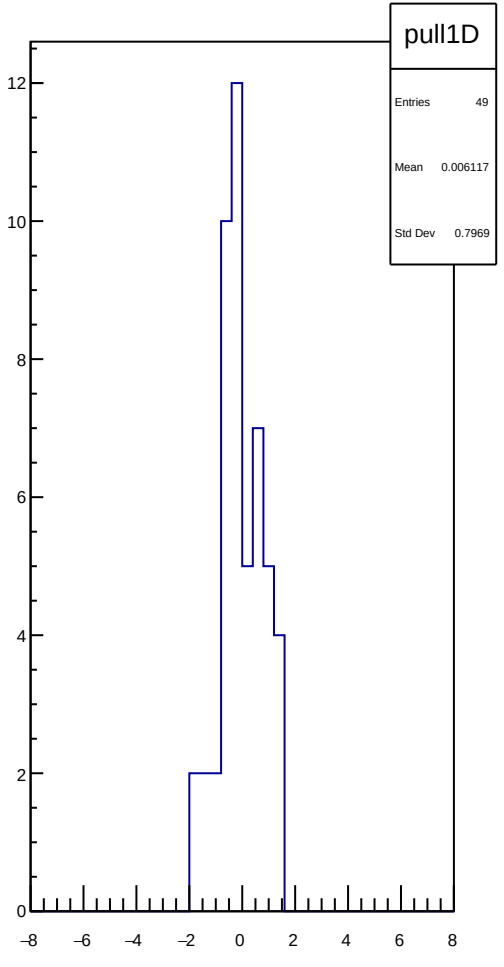

asym_atl_dd_rms vs run
χ^2 / ndf 65.05 / 48
p0 5614 ± 5.651
5800
5750
5700
5650
5600
5550
5500
5450
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

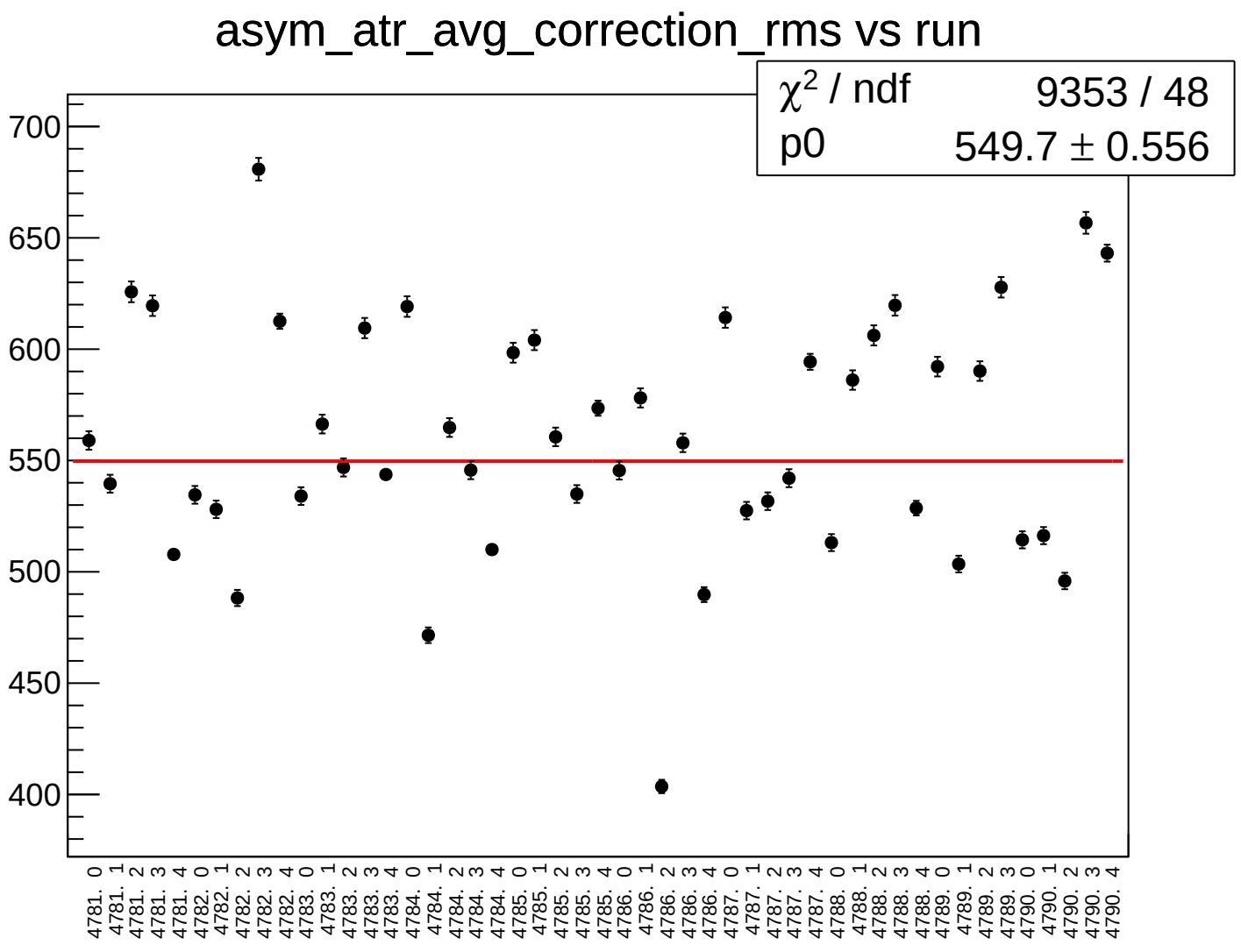

reg_asym_atr_avg_mean vs run
×10^3
χ² / ndf 39.24 / 48
p0 2926 ± 8274
pull
Entries 49
Mean 1.461
Std Dev 40.53

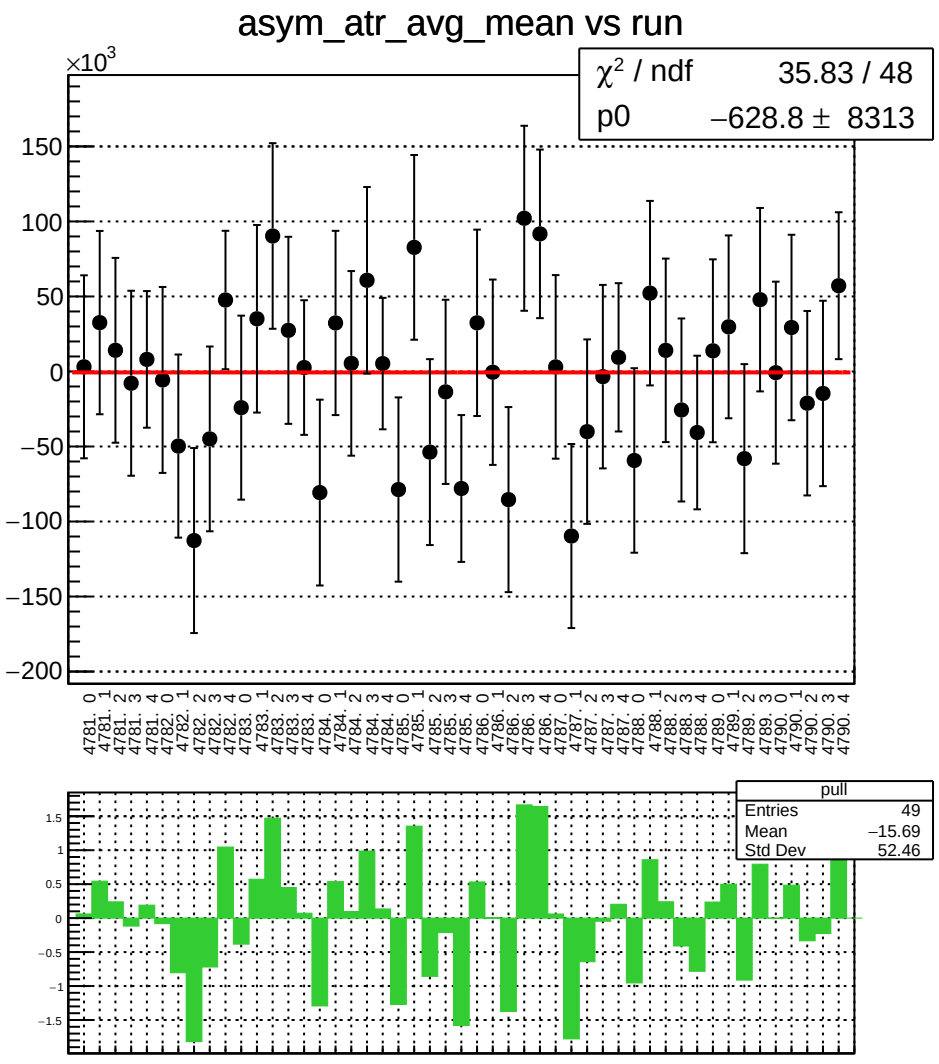

pull1D
Entries 49
Mean −0.008556
Std Dev 0.8948

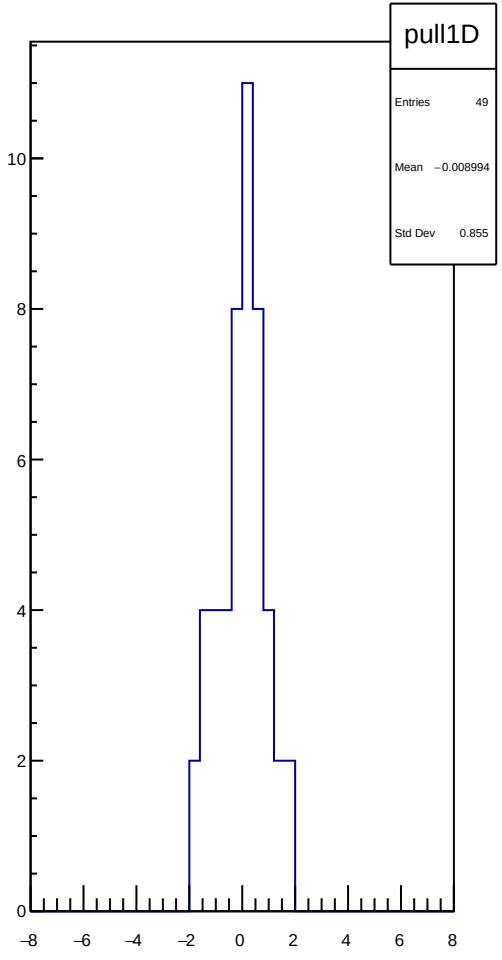

reg_asym_atr_avg_rms vs run
χ² / ndf 43.43 / 48
p0 5812 ± 5.851
6000
5950
5900
5850
5800
5750
5700
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

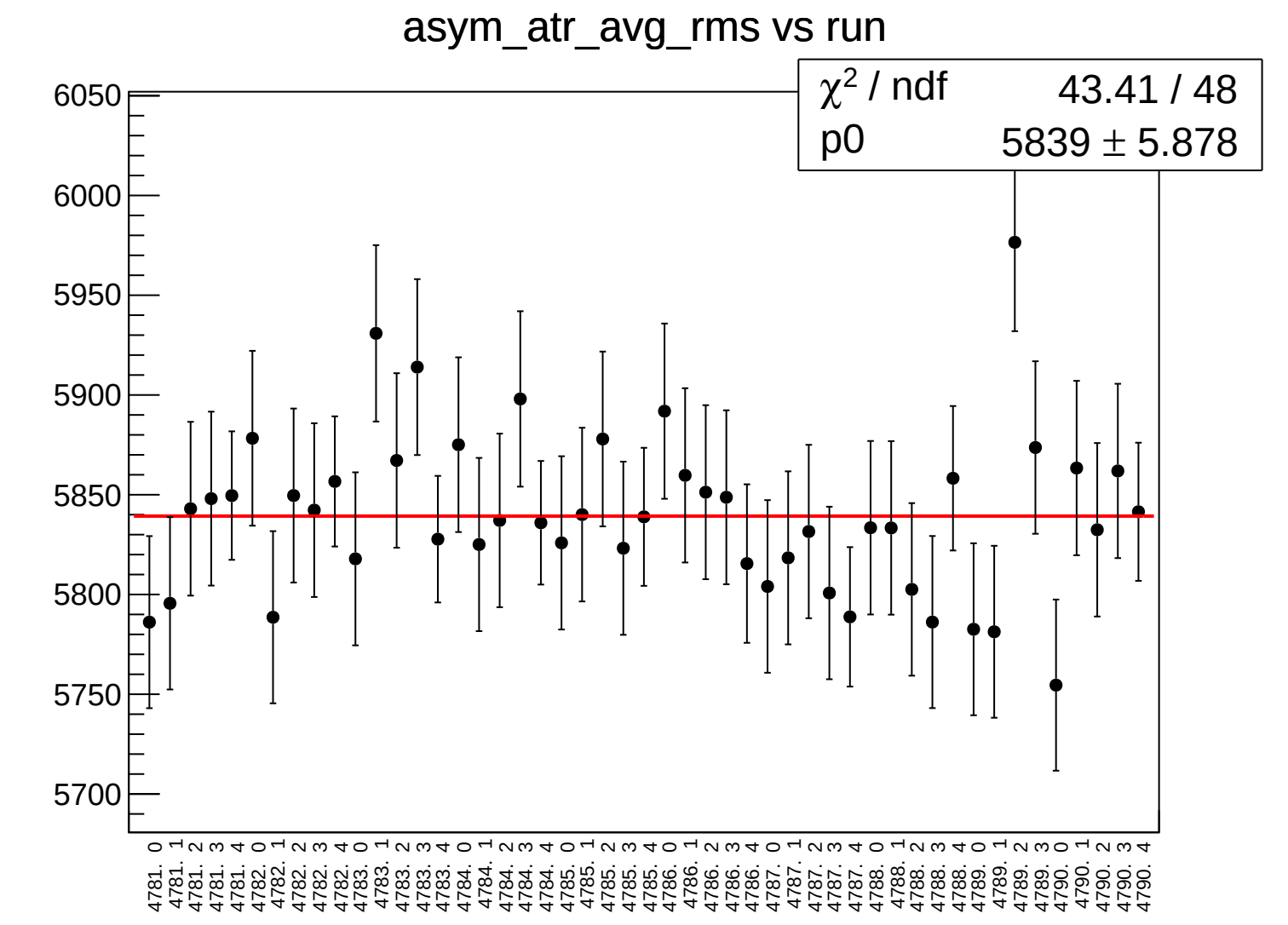

asym_atr_avg_correction_mean vs run
χ² / ndf 31.12 / 48
p0 3564 ± 786.2
pull
Entries 49
Mean −294.9
Std Dev 321.5

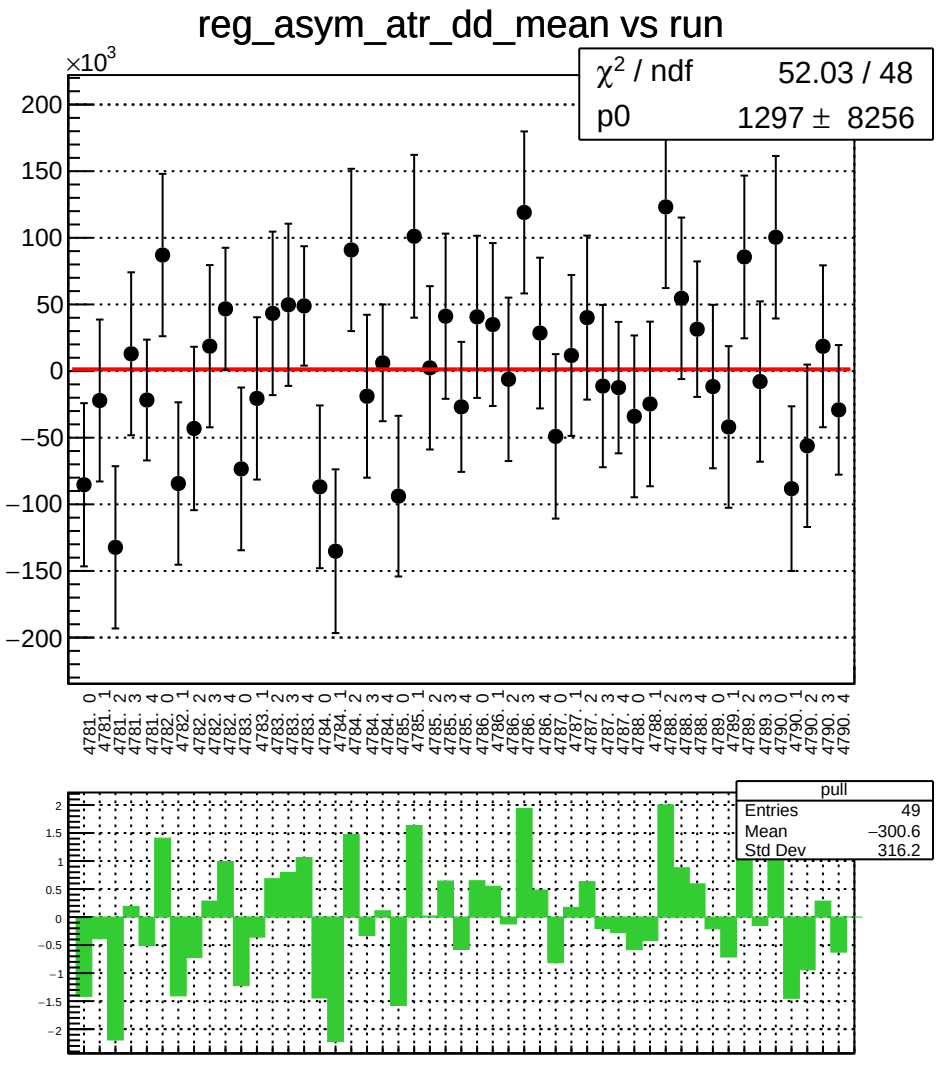

pull1D
Entries 49
Mean 0.006117
Std Dev 0.7969

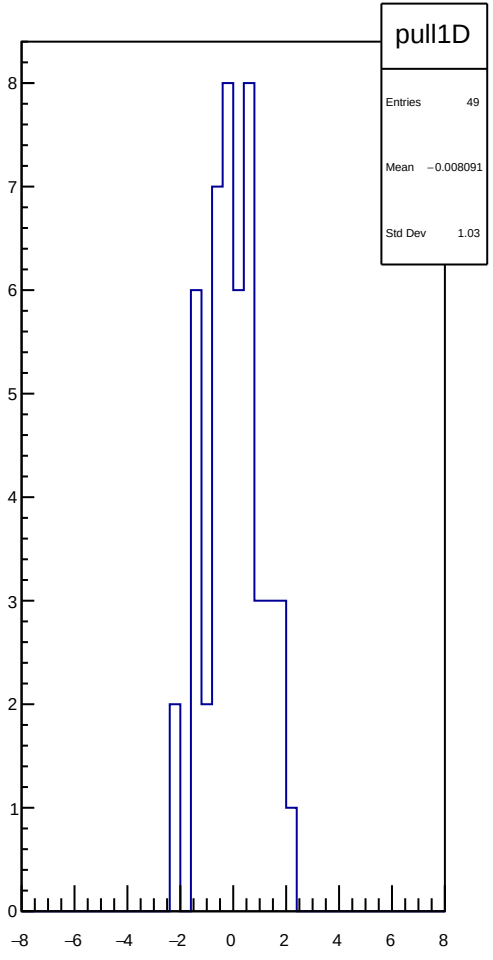

asym_atr_avg_correction_rms vs run
χ² / ndf 9353 / 48
p0 549.7 ± 0.556
700
650
600
550
500
450
400
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

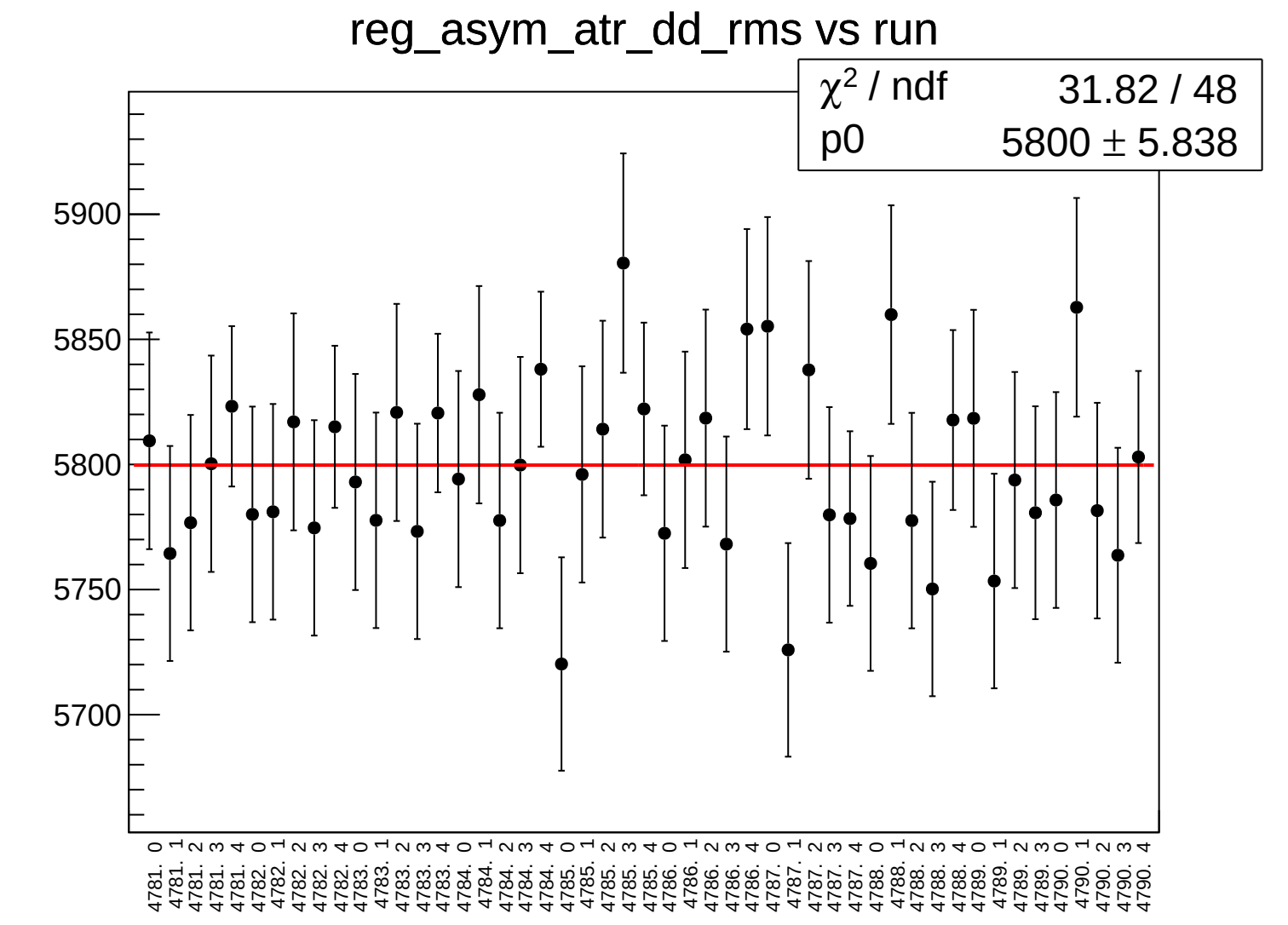

asym_atr_avg_mean vs run
×10^3
χ² / ndf 35.83 / 48
p0 −628.8 ± 8313
150
100
50
0
−50
−100
−150
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −15.69
Std Dev 52.46
1.5
1
0.5
0
−0.5
−1
−1.5

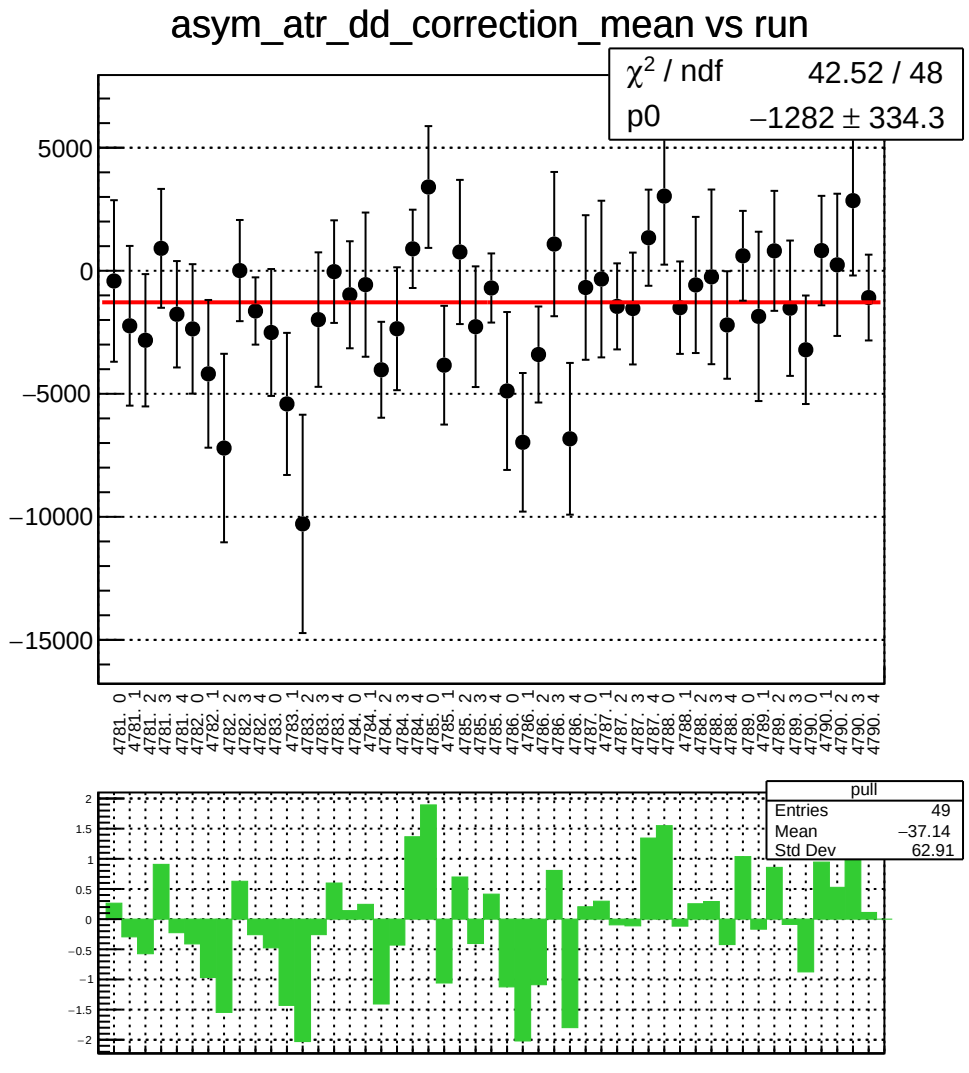

pull1D
Entries 49
Mean −0.008994
Std Dev 0.855
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

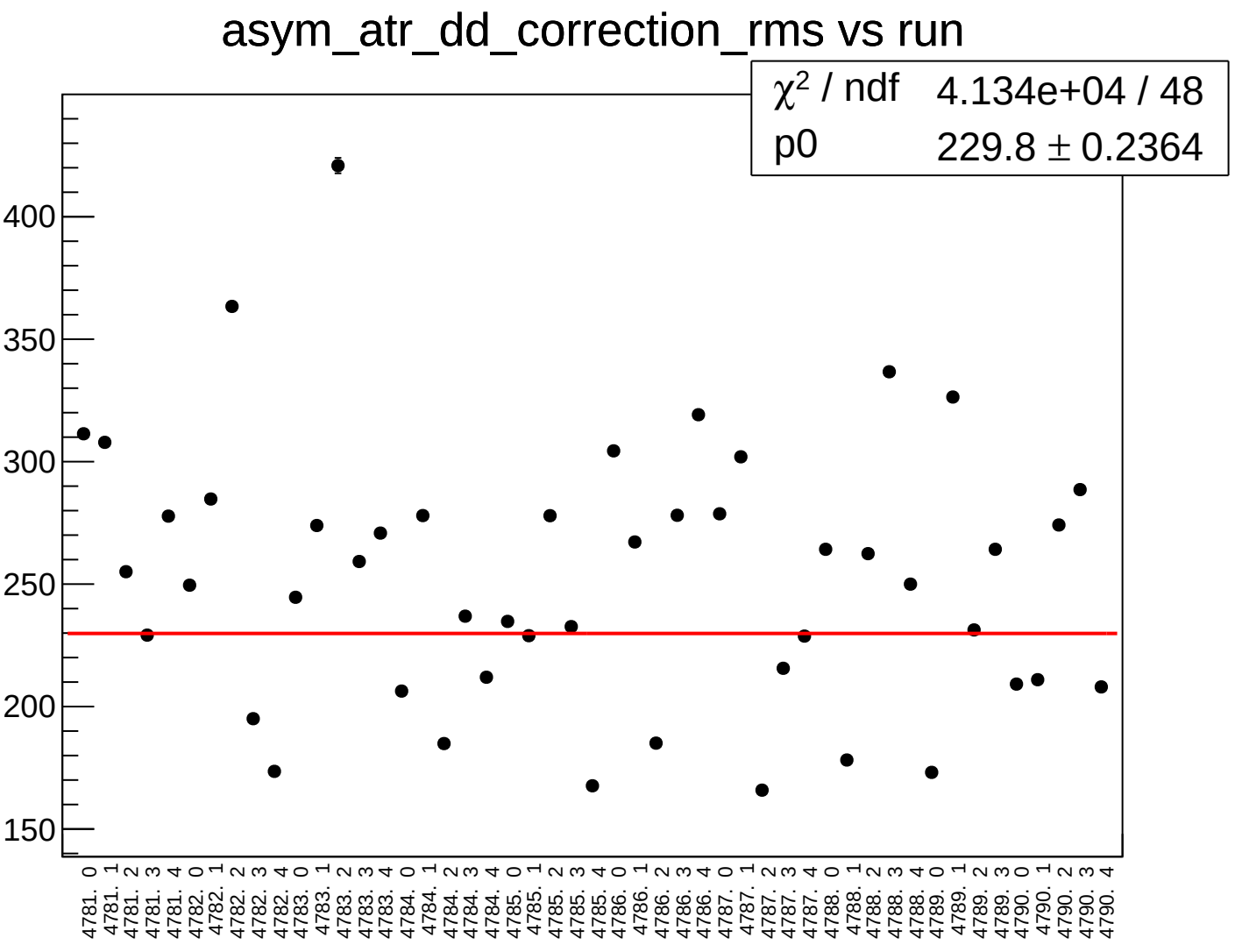

asym_atr_avg_rms vs run
χ² / ndf 43.41 / 48
p0 5839 ± 5.878
6050
6000
5950
5900
5850
5800
5750
5700
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


reg_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 52.03 / 48
p0 1297 ± 8256
200
150
100
50
0
−50
−100
−150
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −300.6
Std Dev 316.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 49
Mean −0.008091
Std Dev 1.03
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr_dd_rms vs run
χ^2 / ndf 31.82 / 48
p0 5800 ± 5.838
5900
5850
5800
5750
5700
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


asym_atr_dd_correction_mean vs run
χ² / ndf 42.52 / 48
p0 −1282 ± 334.3
5000
0
−5000
−10000
−15000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −37.14
Std Dev 62.91
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean −0.05965
Std Dev 0.9296
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_dd_correction_rms vs run
χ² / ndf 4.134e+04 / 48
p0 229.8 ± 0.2364
400
350
300
250
200
150
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
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4789. 2
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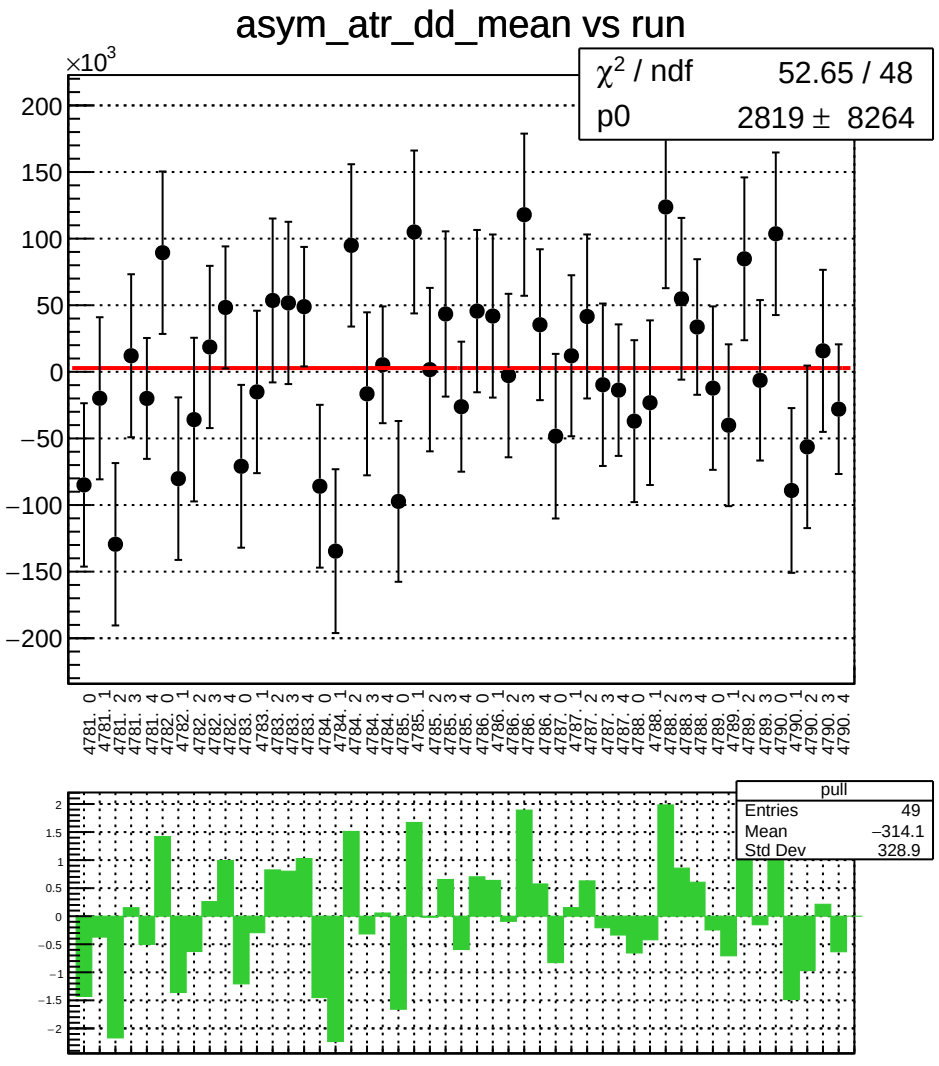
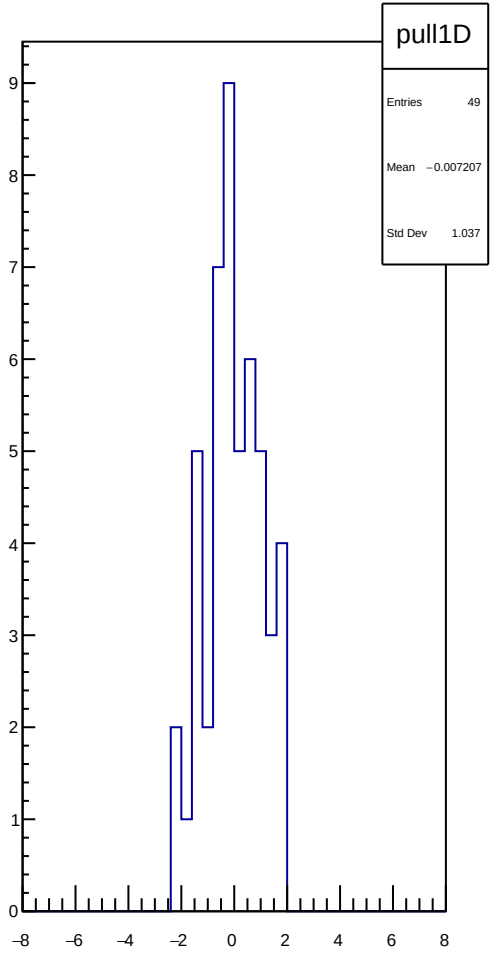
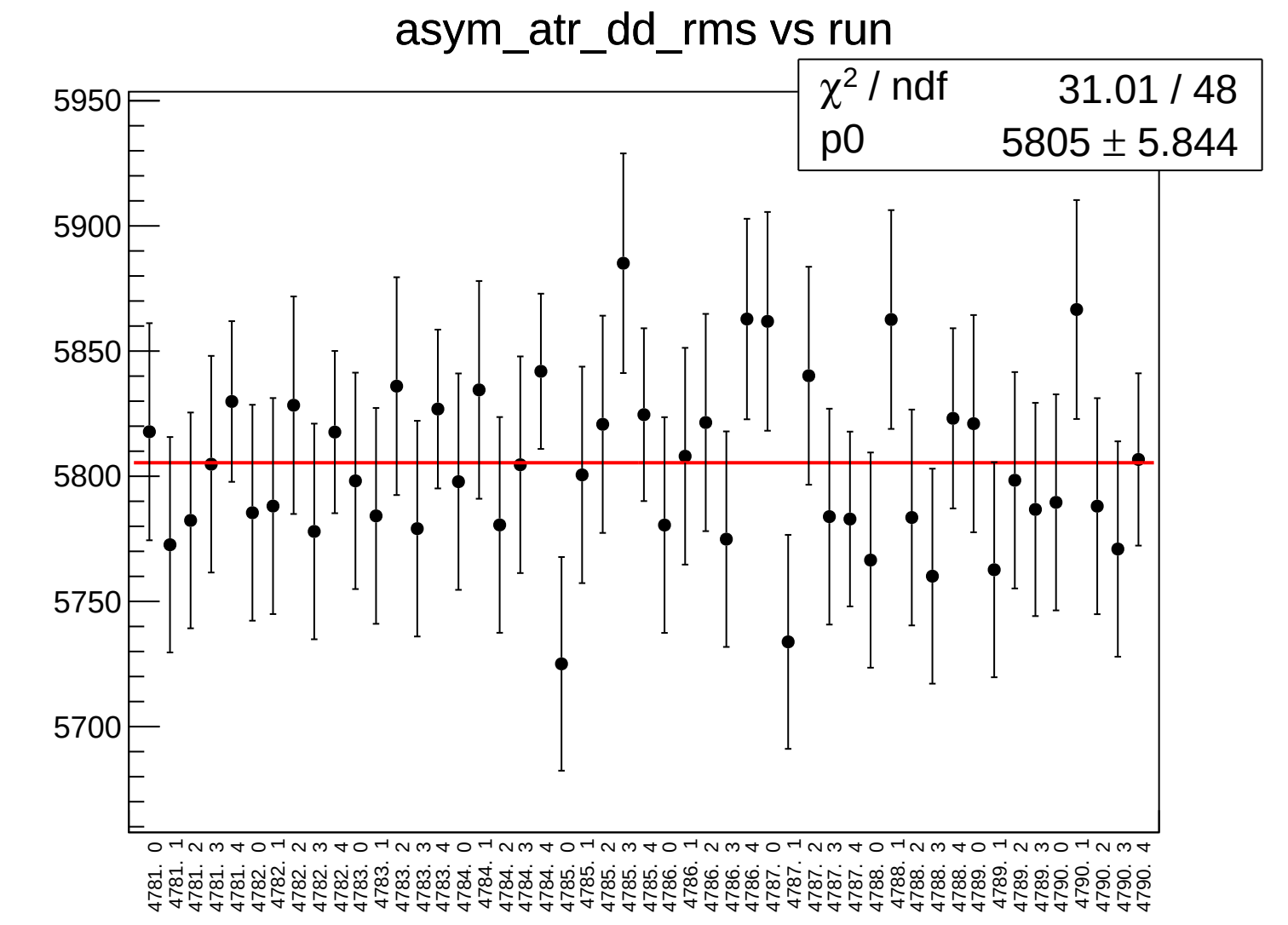
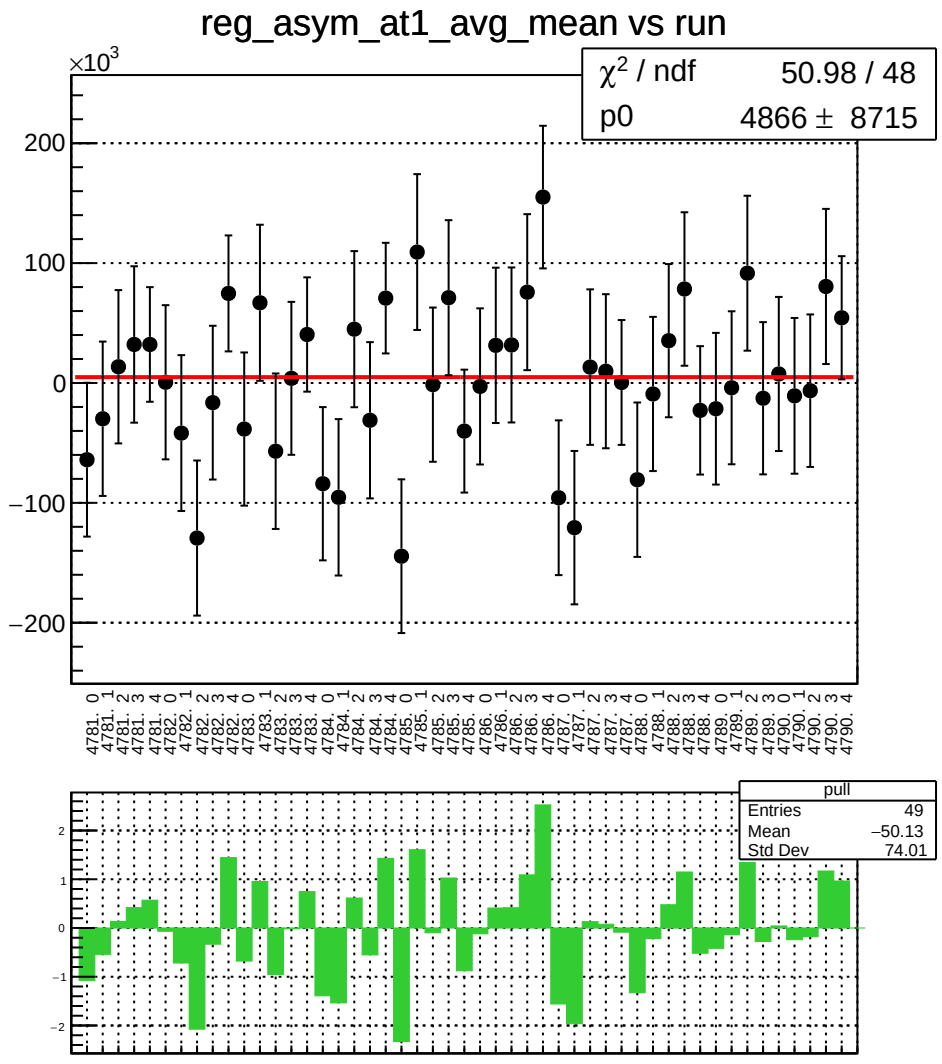
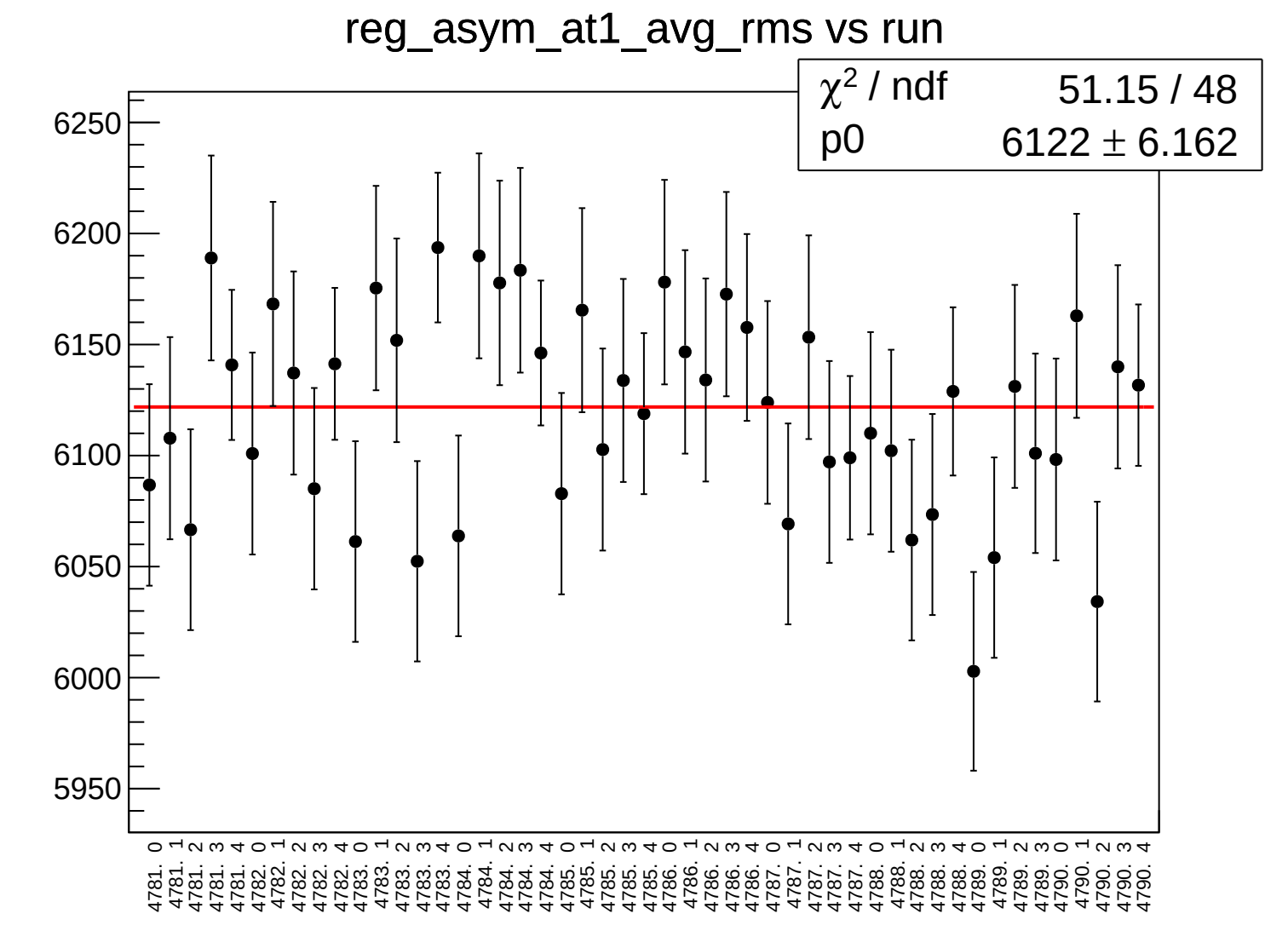
4790. 1
4790. 2
4790. 3
4790. 4

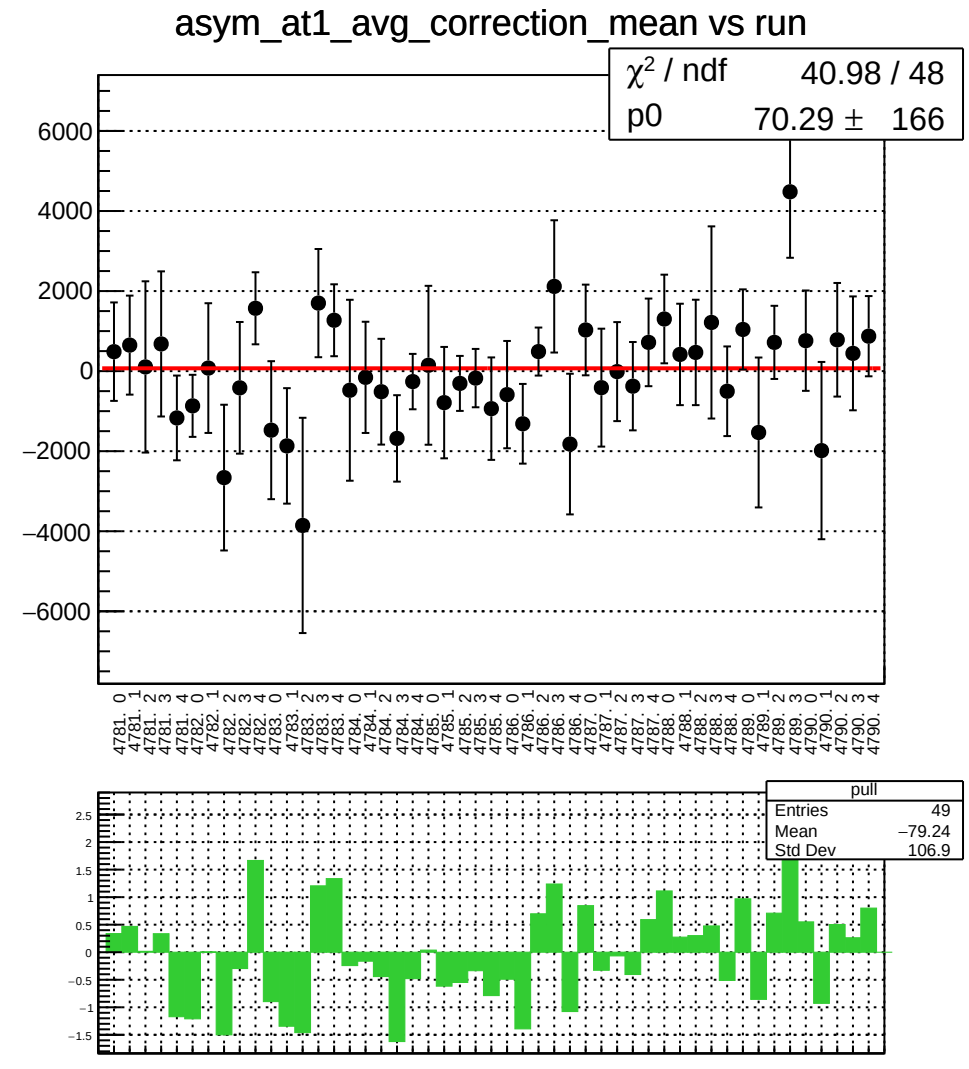

asym_atr_dd_mean vs run
×10^3
χ² / ndf 52.65 / 48
p0 2819 ± 8264
200
150
100
50
0
−50
−100
−150
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −314.1
Std Dev 328.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

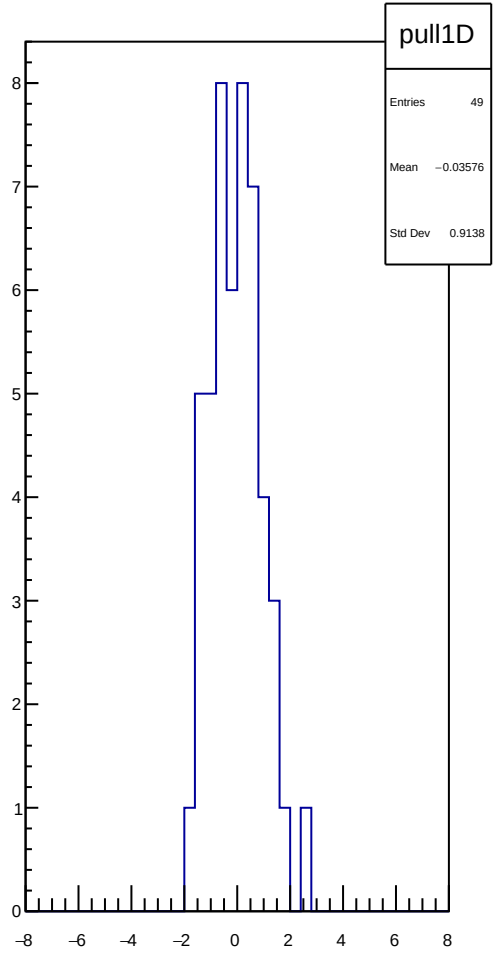

pull1D
Entries 49
Mean −0.007207
Std Dev 1.037
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

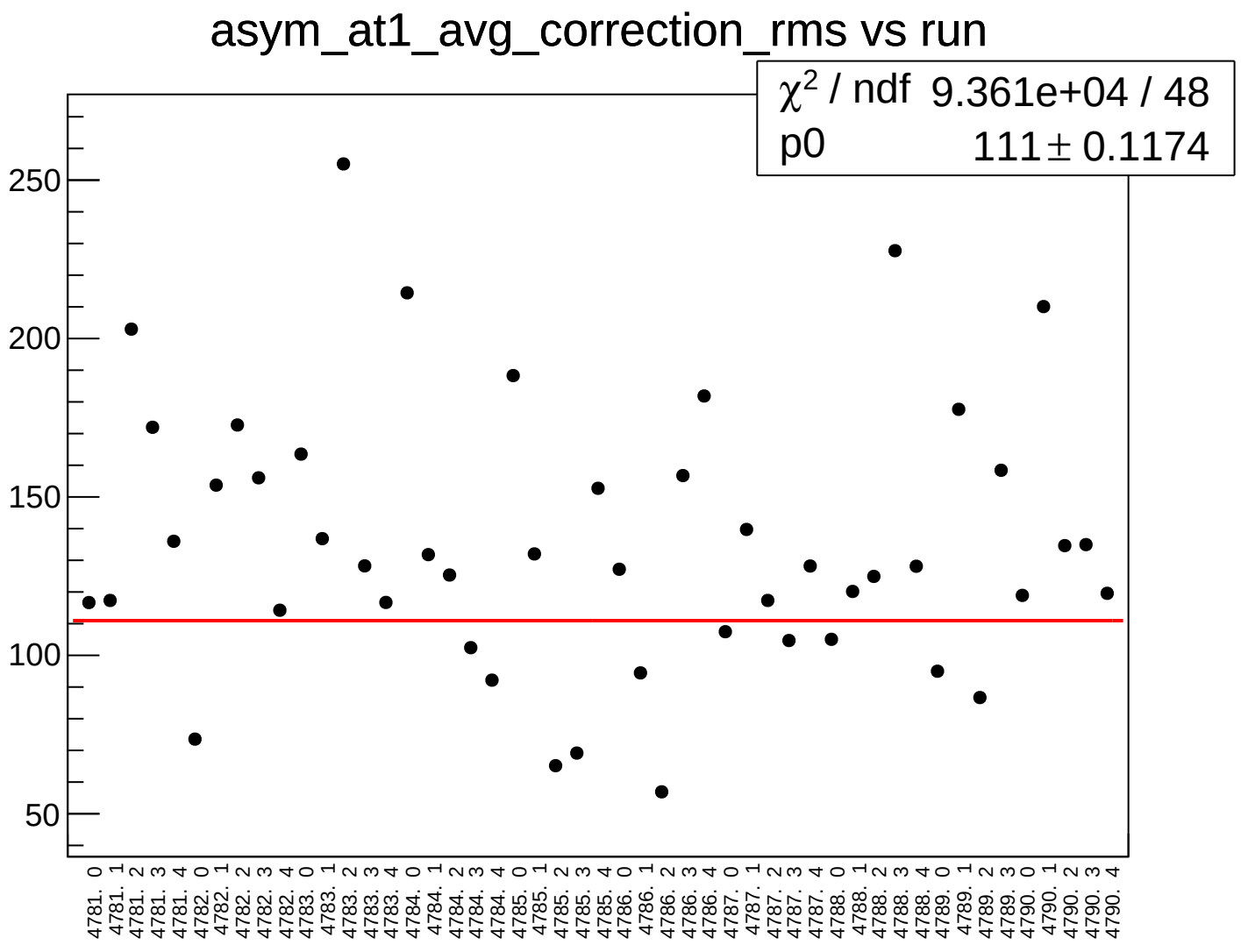

asym_atr_dd_rms vs run
χ^2 / ndf 31.01 / 48
p0 5805 ± 5.844
5950
5900
5850
5800
5750
5700
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

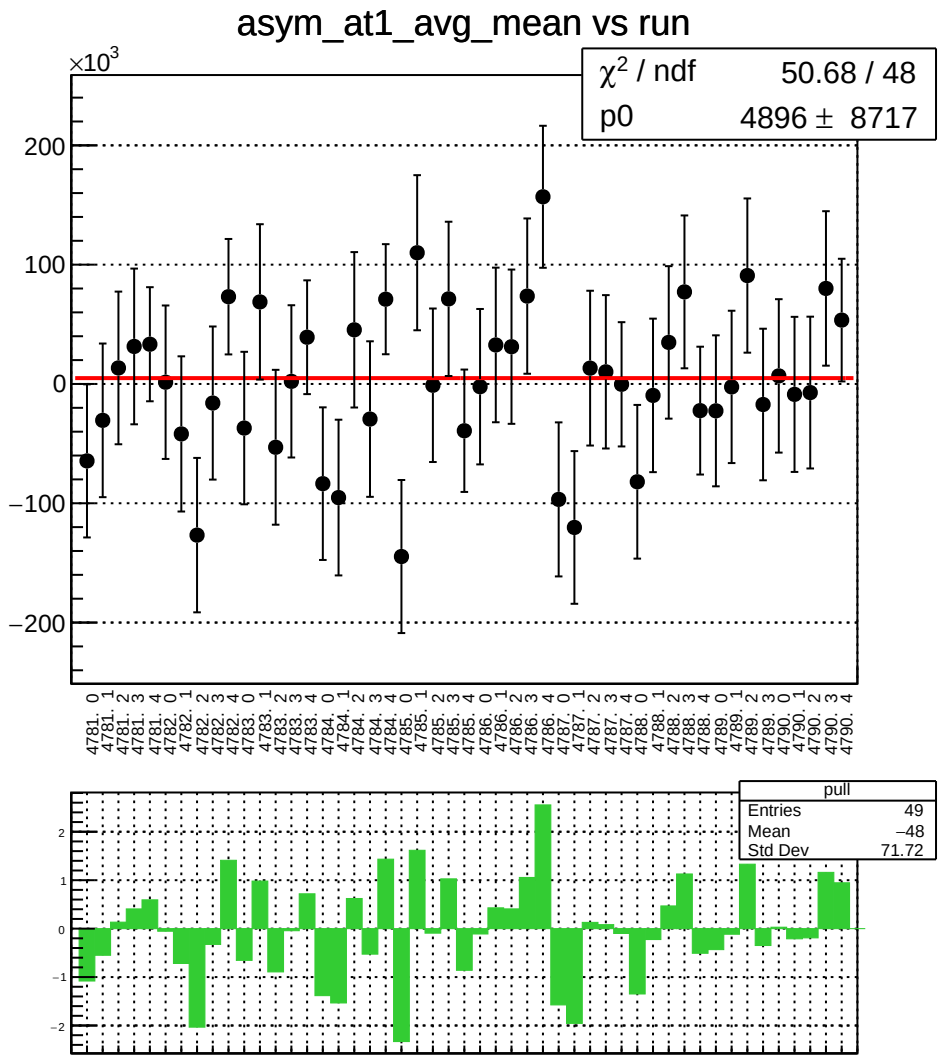

reg_asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 50.98 / 48
p0 4866 ± 8715
200
100
0
−100
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −50.13
Std Dev 74.01
2
1
0
−1
−2
pull1D
Entries 49
Mean −0.03157
Std Dev 1.019
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

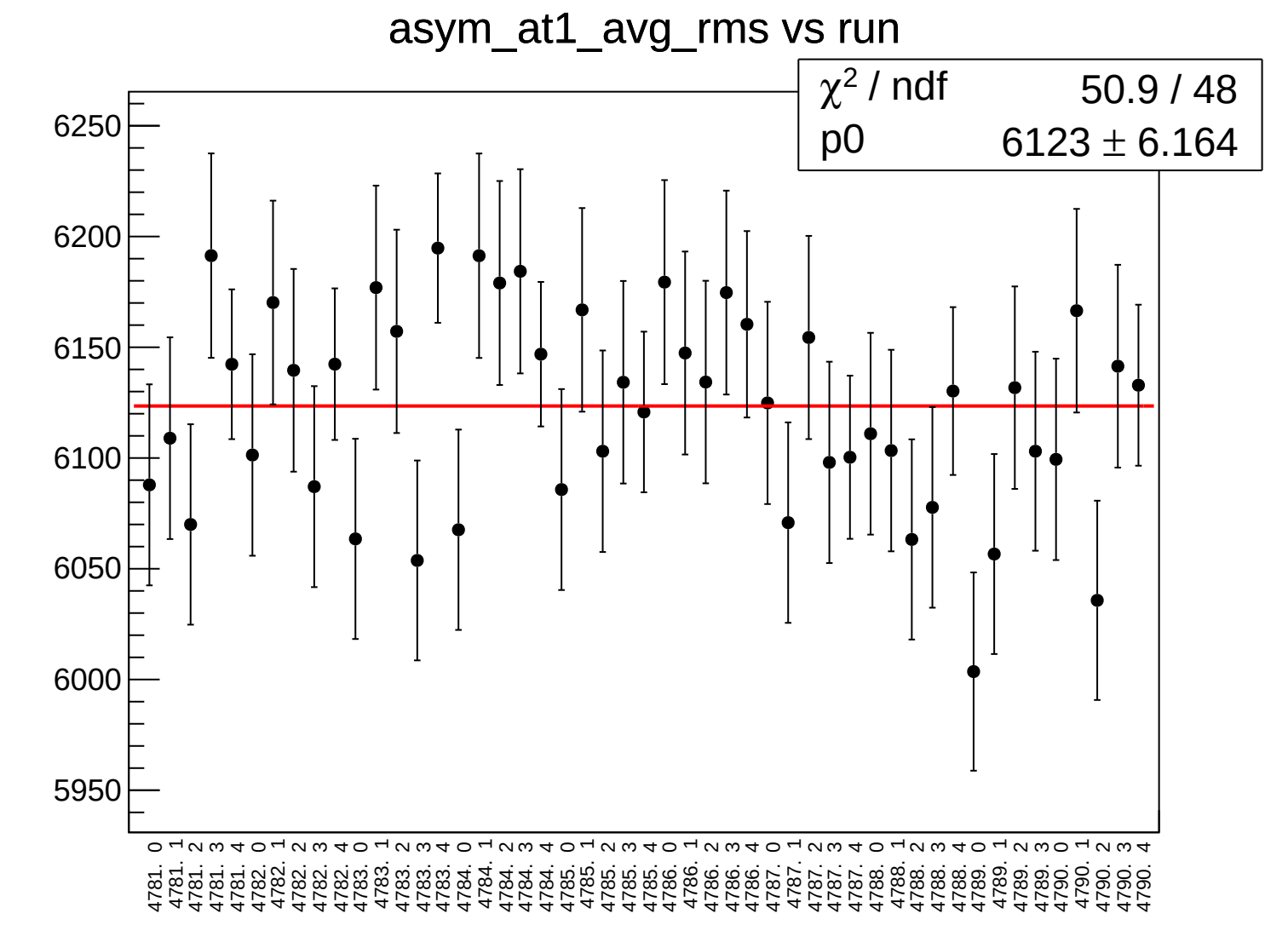

reg_asym_at1_avg_rms vs run
χ² / ndf 51.15 / 48
p0 6122 ± 6.162
6250
6200
6150
6100
6050
6000
5950
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

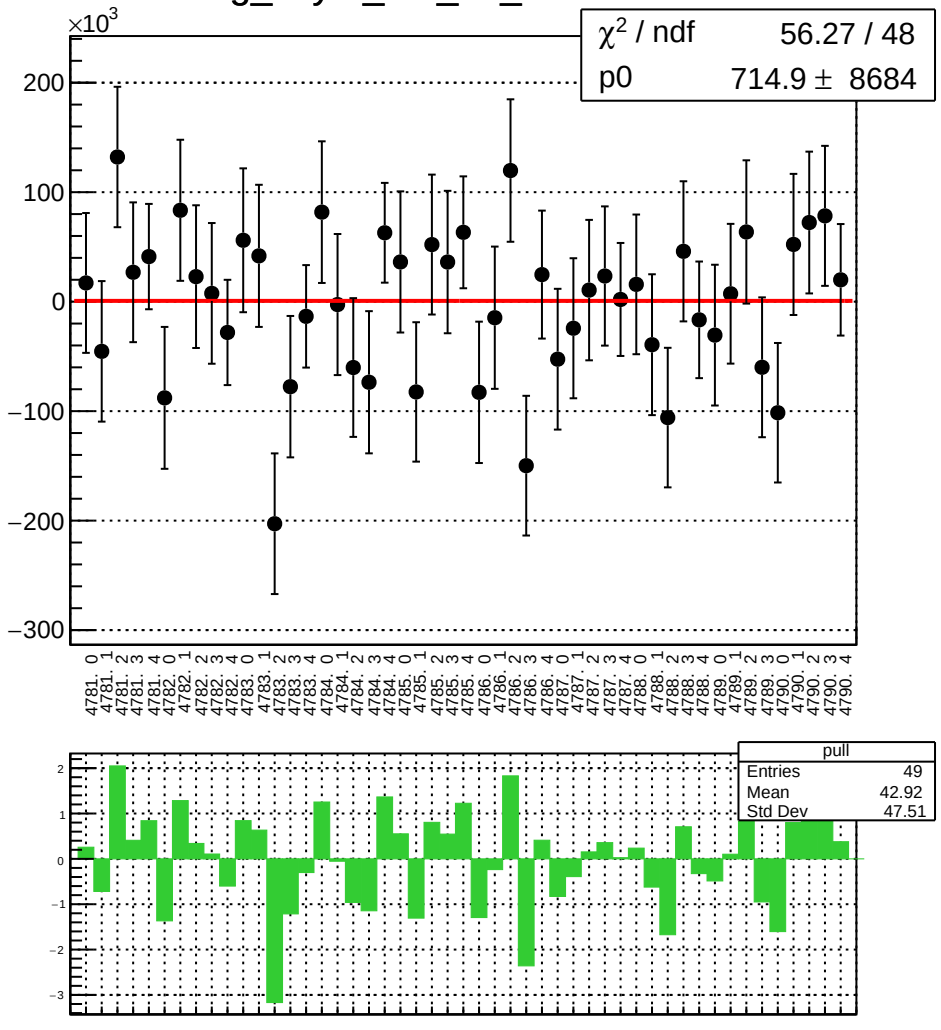

asym_at1_avg_correction_mean vs run
χ² / ndf 40.98 / 48
p0 70.29 ± 166
6000
4000
2000
0
−2000
−4000
−6000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −79.24
Std Dev 106.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

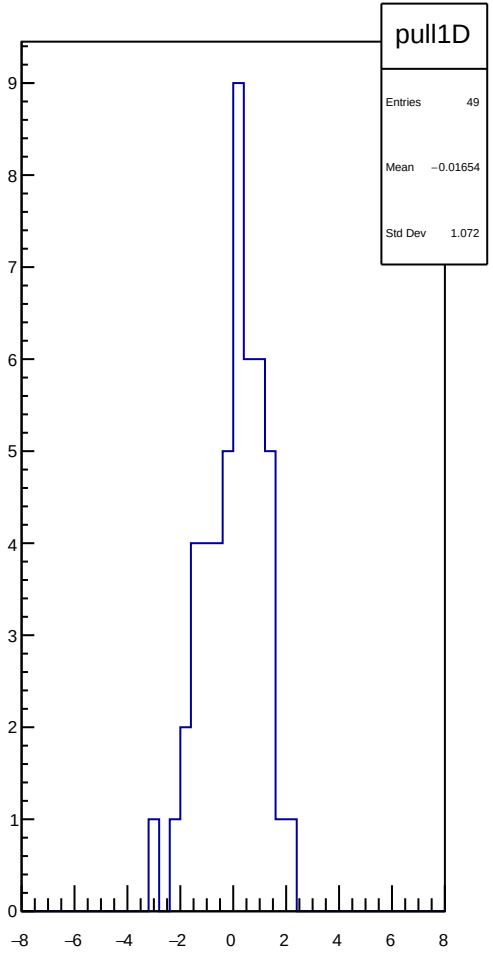

pull1D
Entries 49
Mean −0.03576
Std Dev 0.9138
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

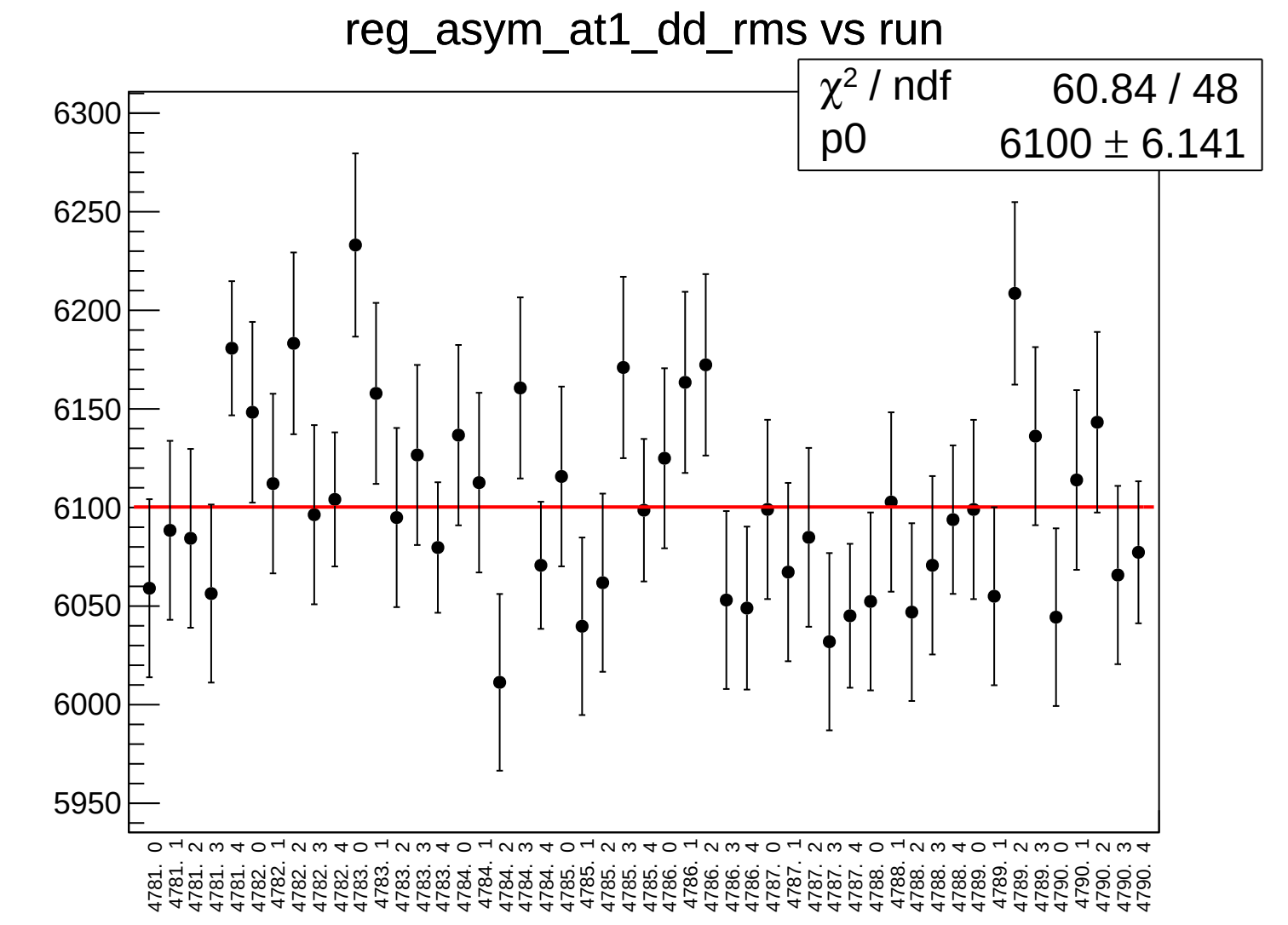

asym_at1_avg_correction_rms vs run
χ² / ndf 9.361e+04 / 48
p0 111 ± 0.1174
250
200
150
100
50
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

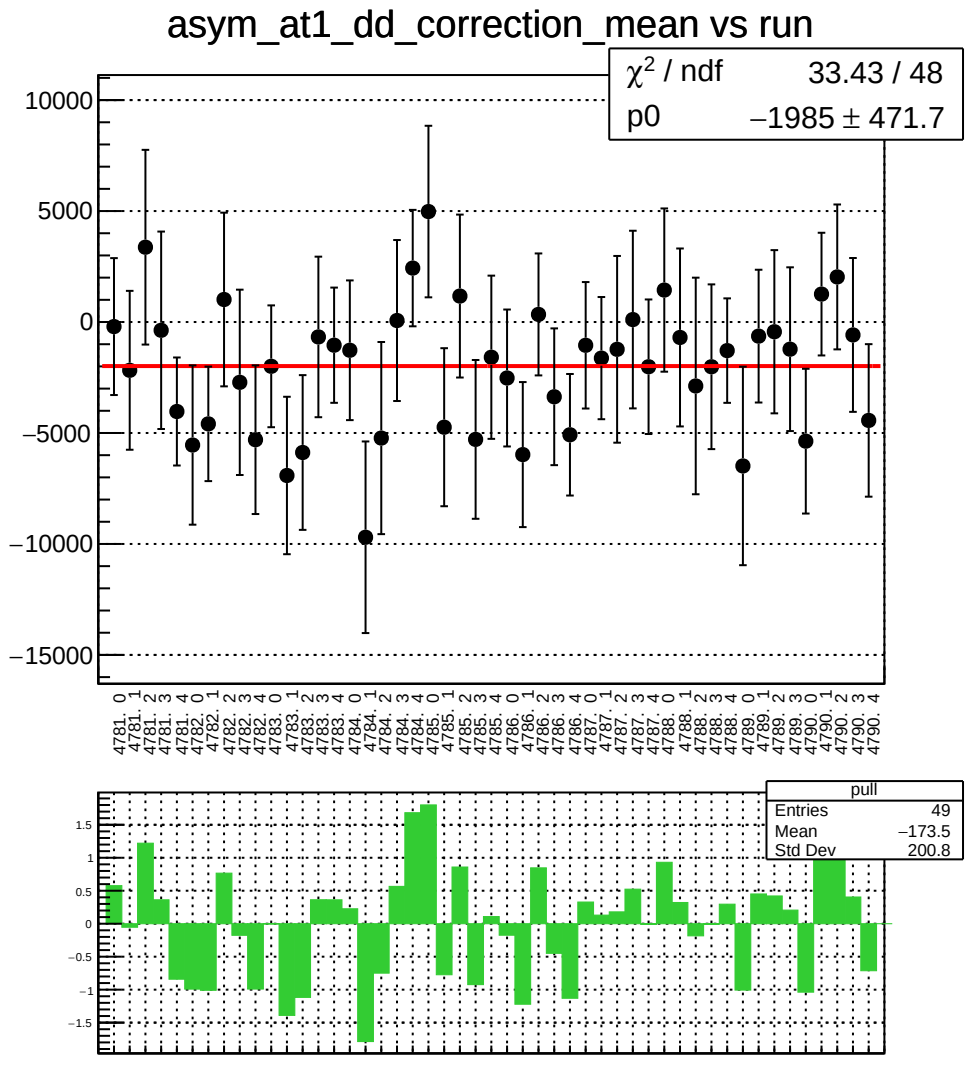

asym_at1_avg_mean vs run
×10^3
χ² / ndf 50.68 / 48
p0 4896 ± 8717
200
100
0
−100
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −48
Std Dev 71.72
2
1
0
−1
−2
pull1D
Entries 49
Mean −0.03135
Std Dev 1.017
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

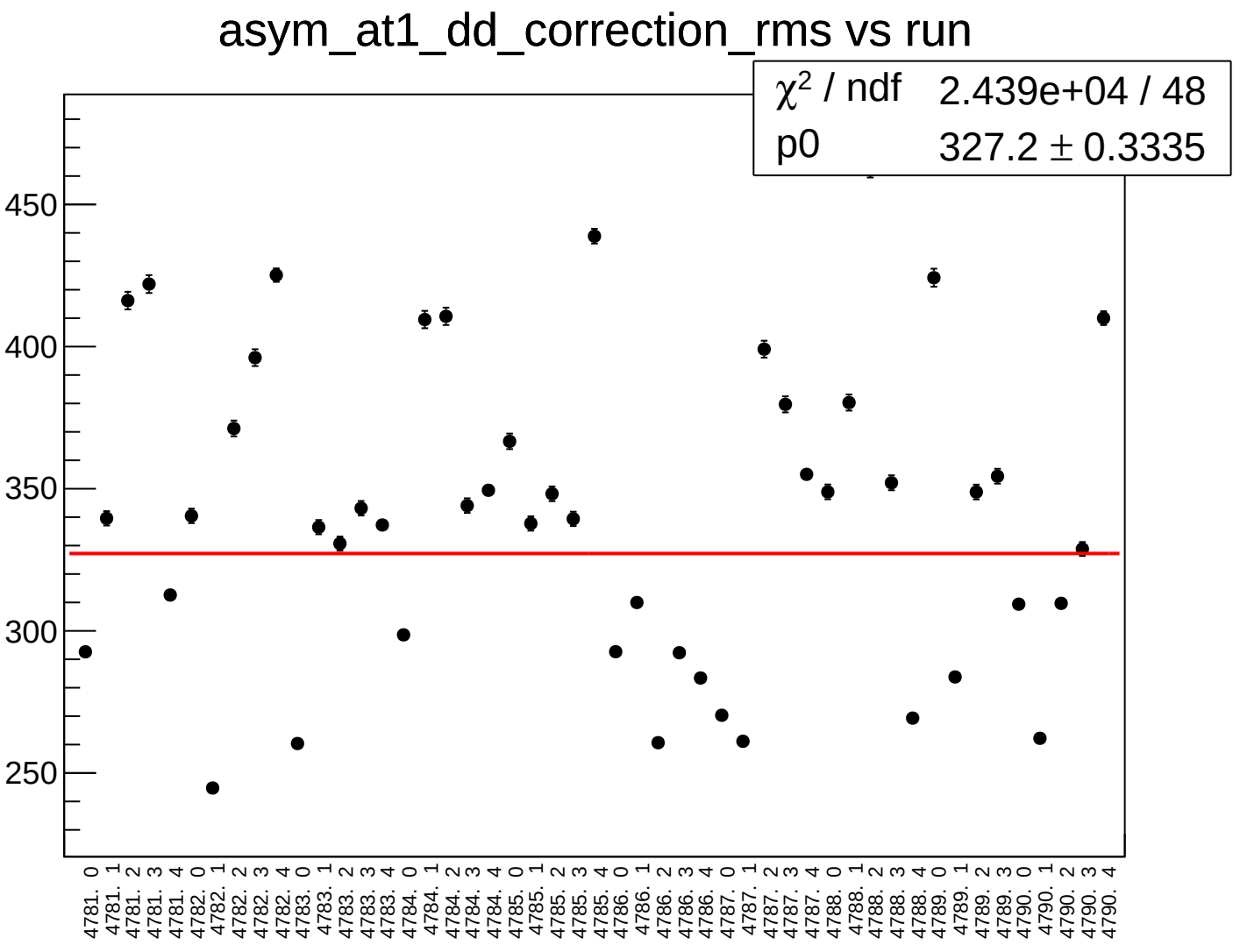

asym_at1_avg_rms vs run
χ² / ndf 50.9 / 48
p0 6123 ± 6.164
6250
6200
6150
6100
6050
6000
5950
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

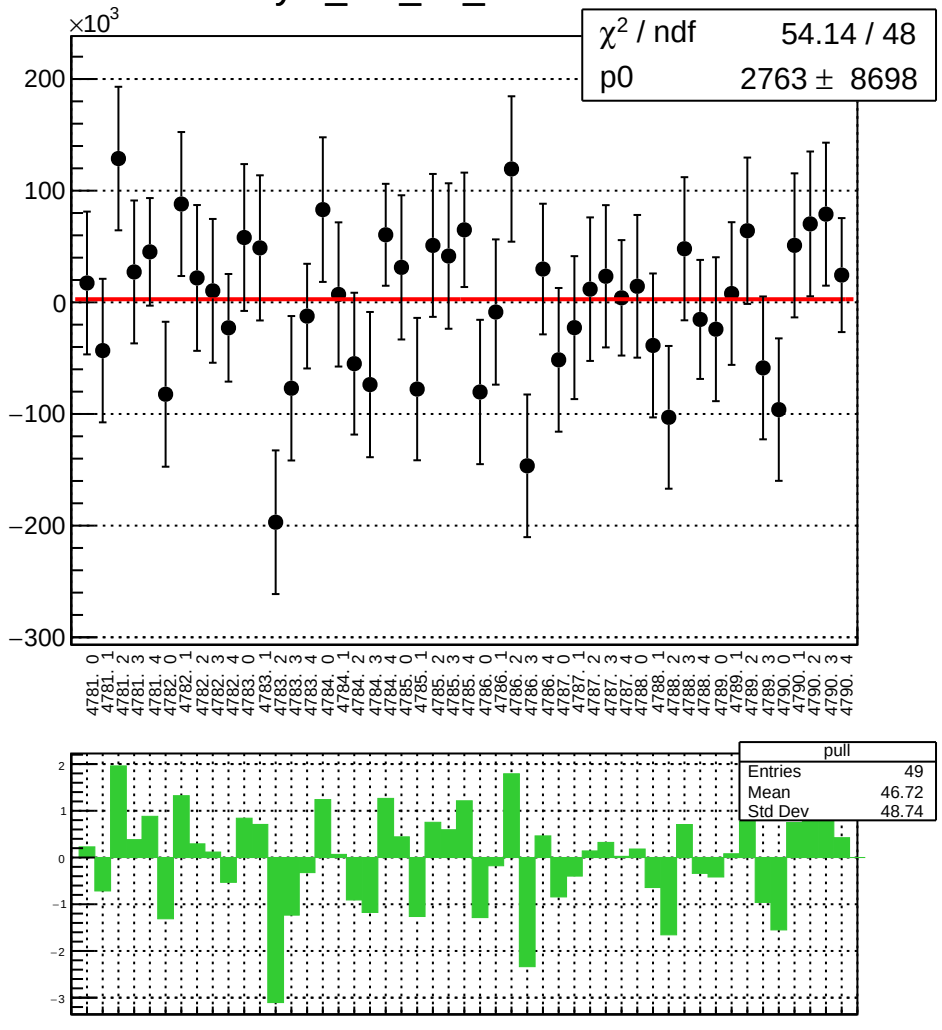

reg_asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 56.27 / 48
p0 714.9 ± 8684
200
100
0
−100
−200
−300
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 42.92
Std Dev 47.51
2
1
0
−1
−2
−3

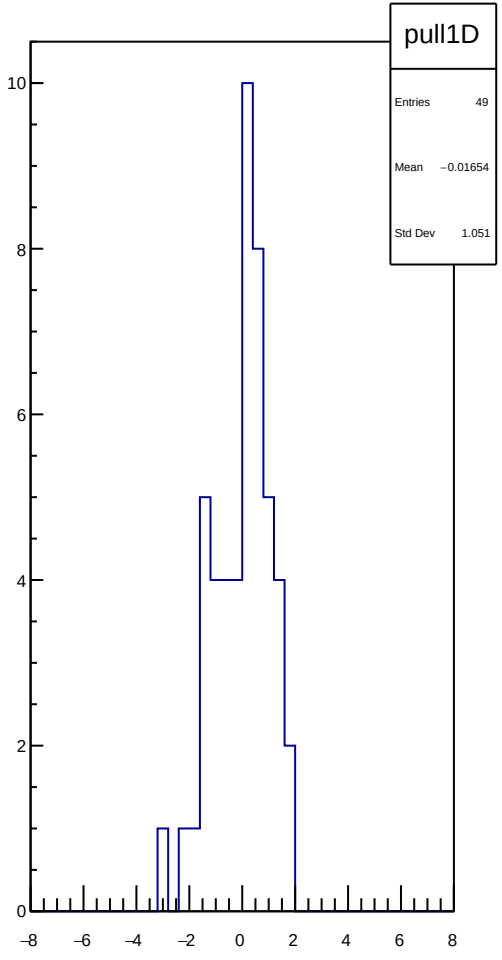

pull1D
Entries 49
Mean −0.01654
Std Dev 1.072
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

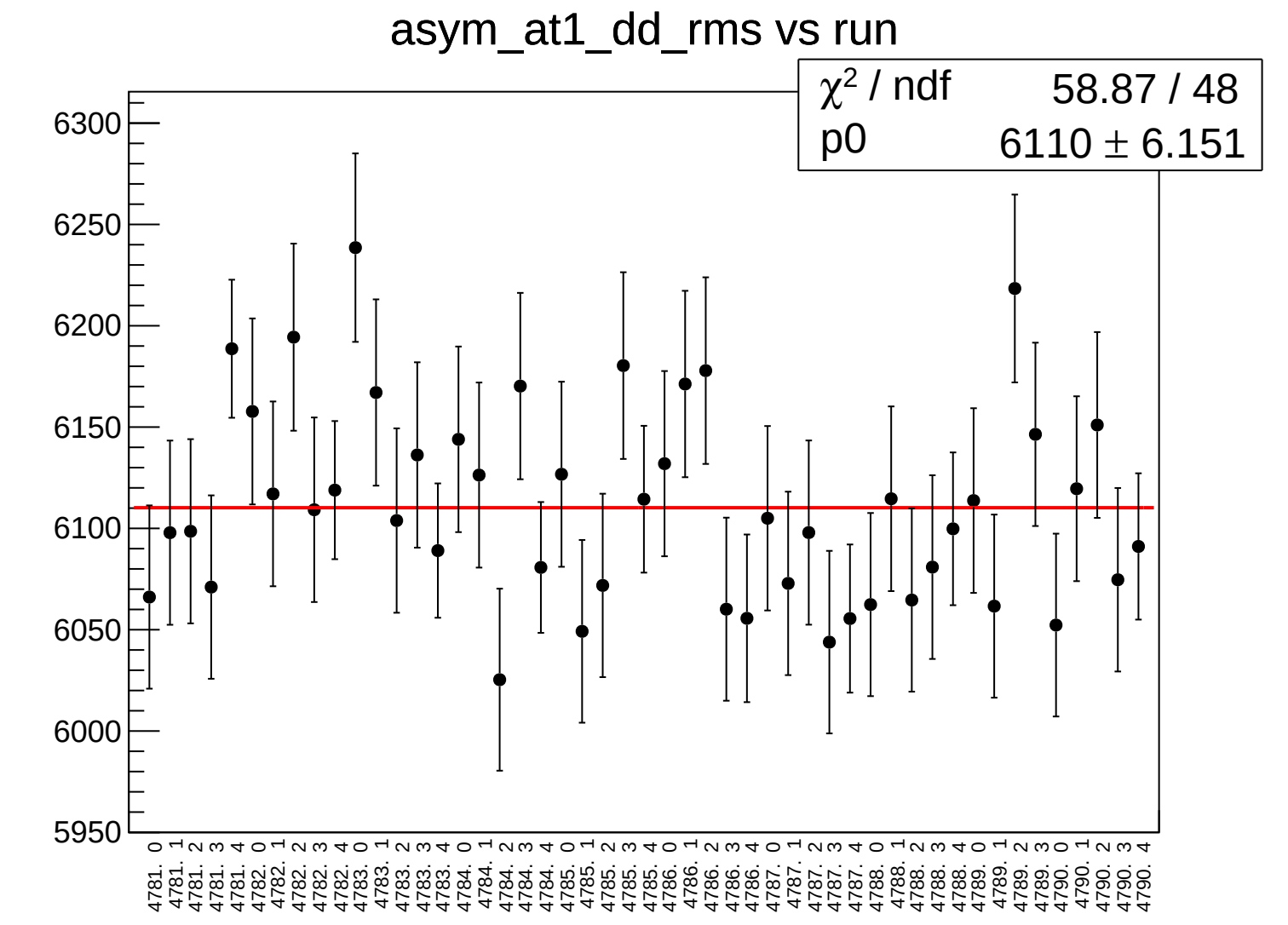

reg_asym_at1_dd_rms vs run
χ² / ndf 60.84 / 48
p0 6100 ± 6.141
6300
6250
6200
6150
6100
6050
6000
5950
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

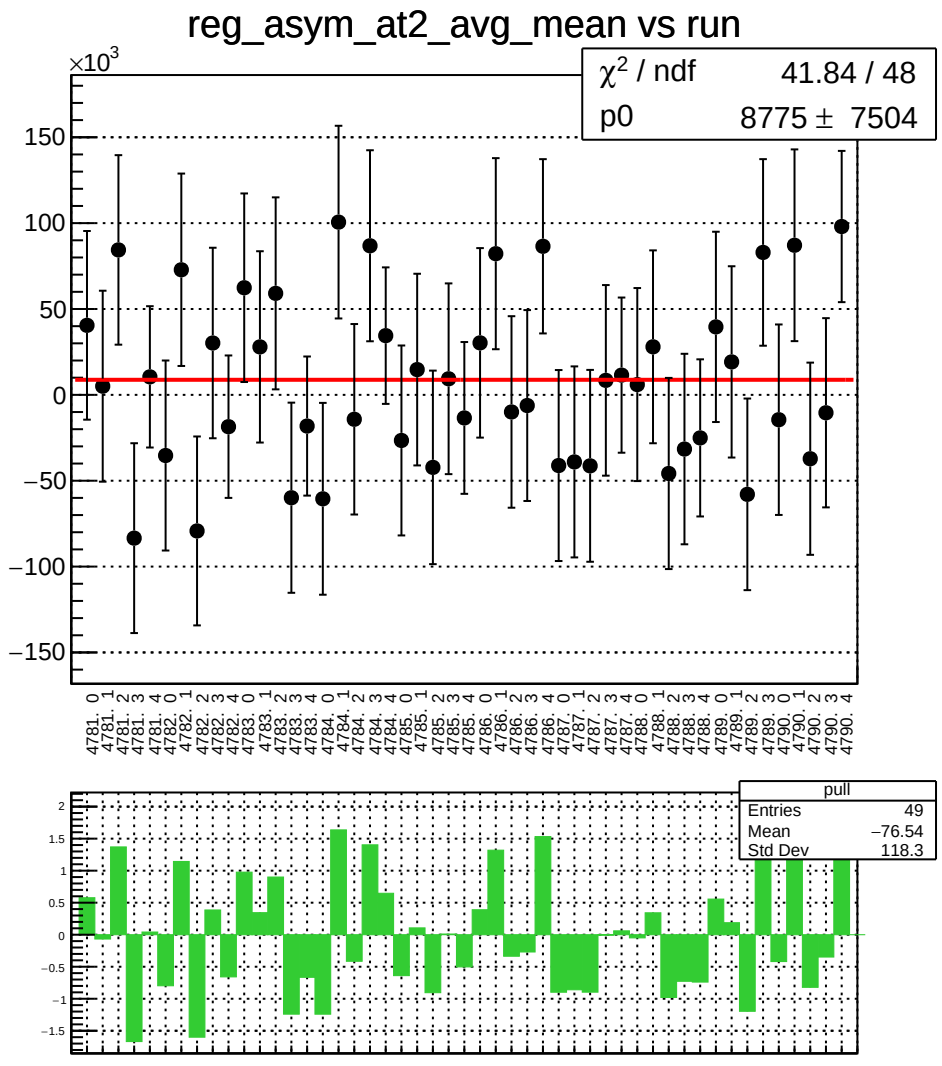

asym_at1_dd_correction_mean vs run
χ² / ndf 33.43 / 48
p0 −1985 ± 471.7
10000
5000
0
−5000
−10000
−15000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −173.5
Std Dev 200.8
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 49
Mean −0.008139
Std Dev 0.8259
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

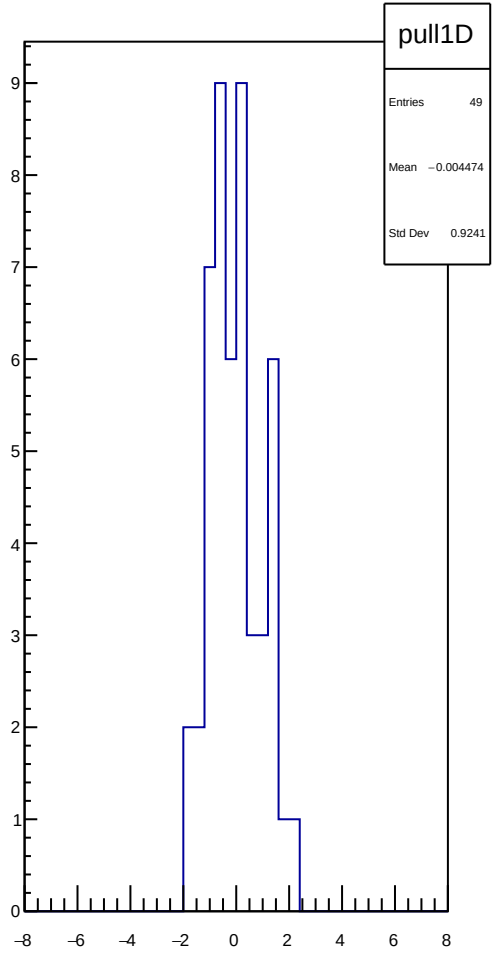

asym_at1_dd_correction_rms vs run
χ^2 / ndf 2.439e+04 / 48
p0 327.2 ± 0.3335
450
400
350
300
250
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

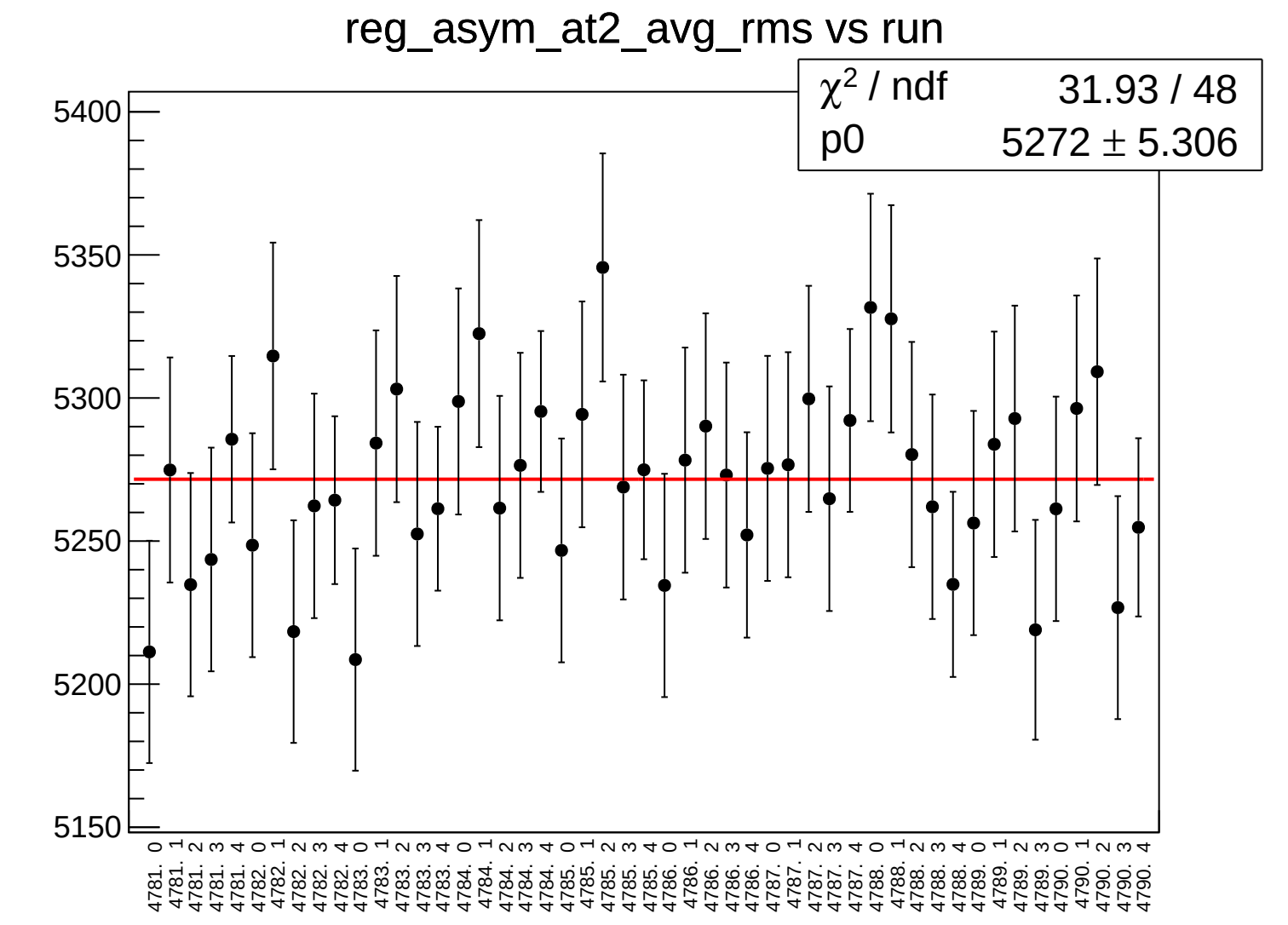

asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 54.14 / 48
p0 2763 ± 8698
200
100
0
−100
−200
−300
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 46.72
Std Dev 48.74
2
1
0
−1
−2
−3

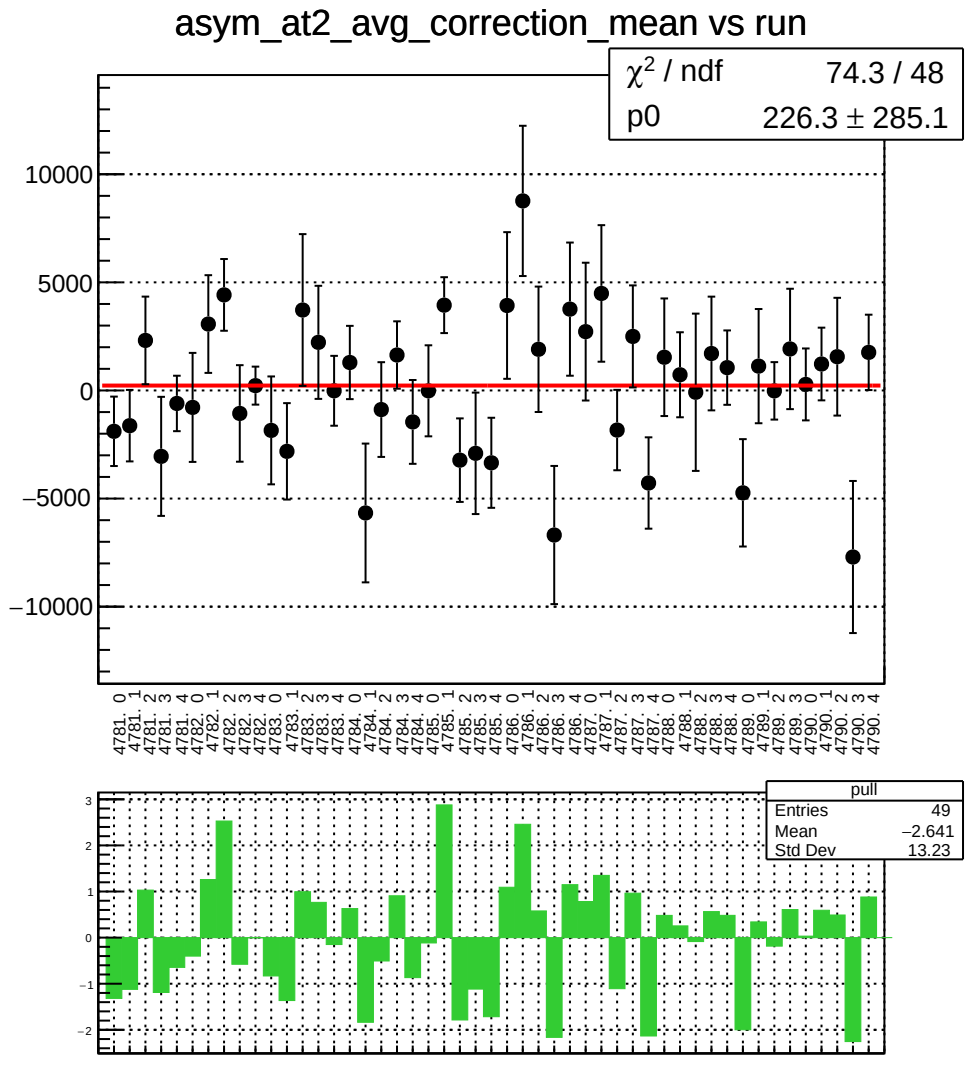

pull1D
Entries 49
Mean −0.01654
Std Dev 1.051
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

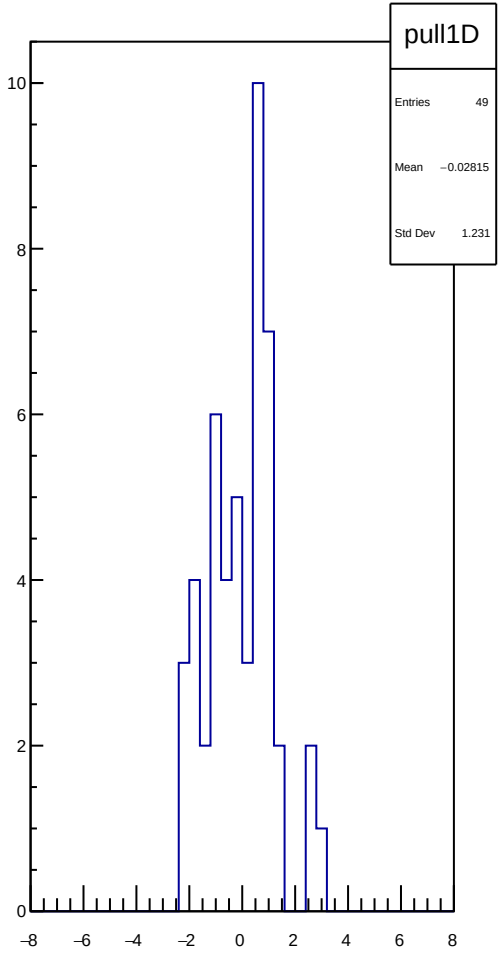

asym_at1_dd_rms vs run
χ² / ndf 58.87 / 48
p0 6110 ± 6.151
6300
6250
6200
6150
6100
6050
6000
5950
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

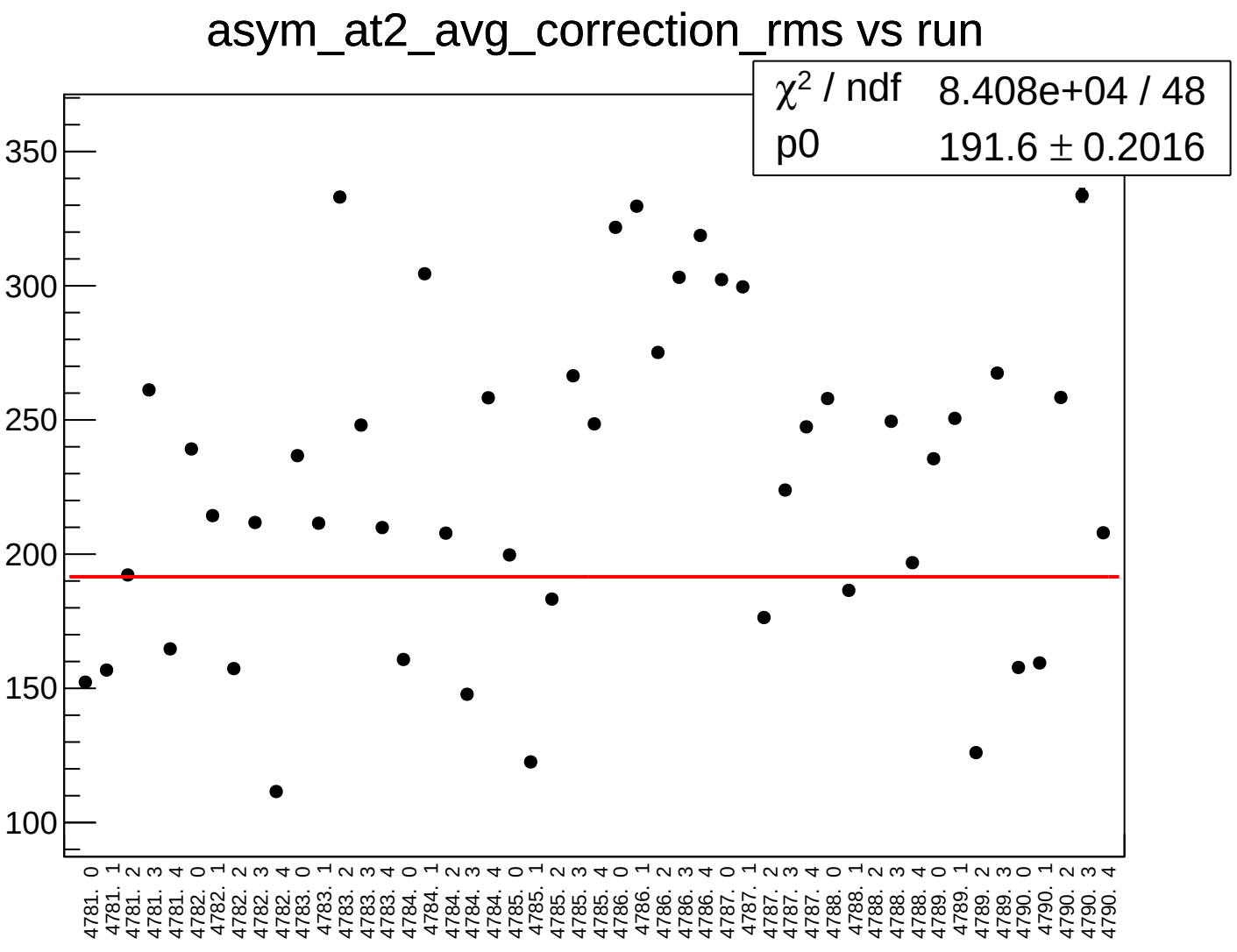

reg_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 41.84 / 48
p0 8775 ± 7504
150
100
50
0
−50
−100
−150
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −76.54
Std Dev 118.3
2
1.5
1
0.5
0
−0.5
−1
−1.5

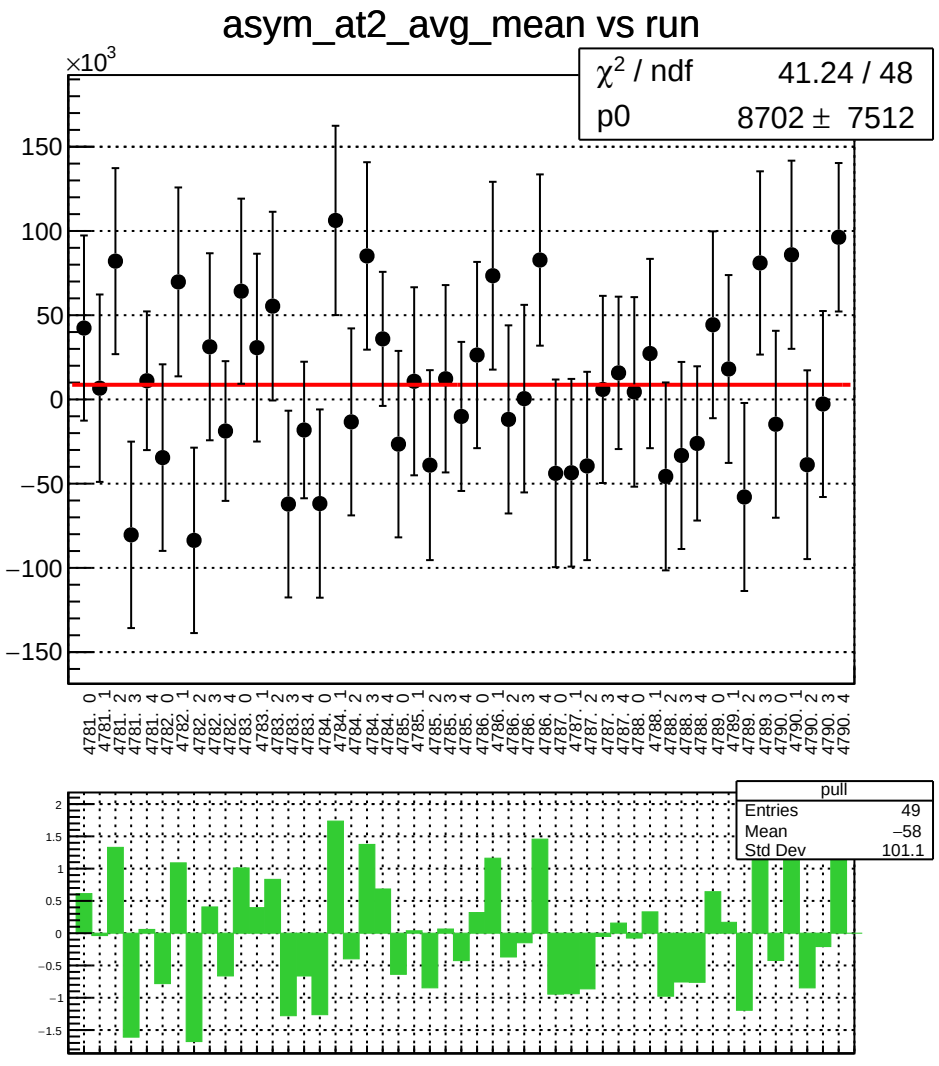

pull1D
Entries 49
Mean −0.004474
Std Dev 0.9241
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

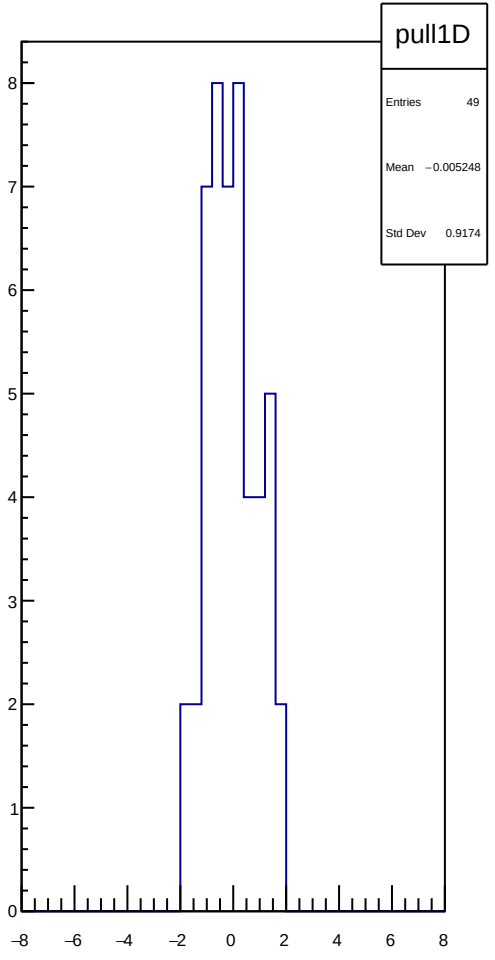

reg_asym_at2_avg_rms vs run
χ^2 / ndf 31.93 / 48
p0 5272 ± 5.306
5400
5350
5300
5250
5200
5150
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

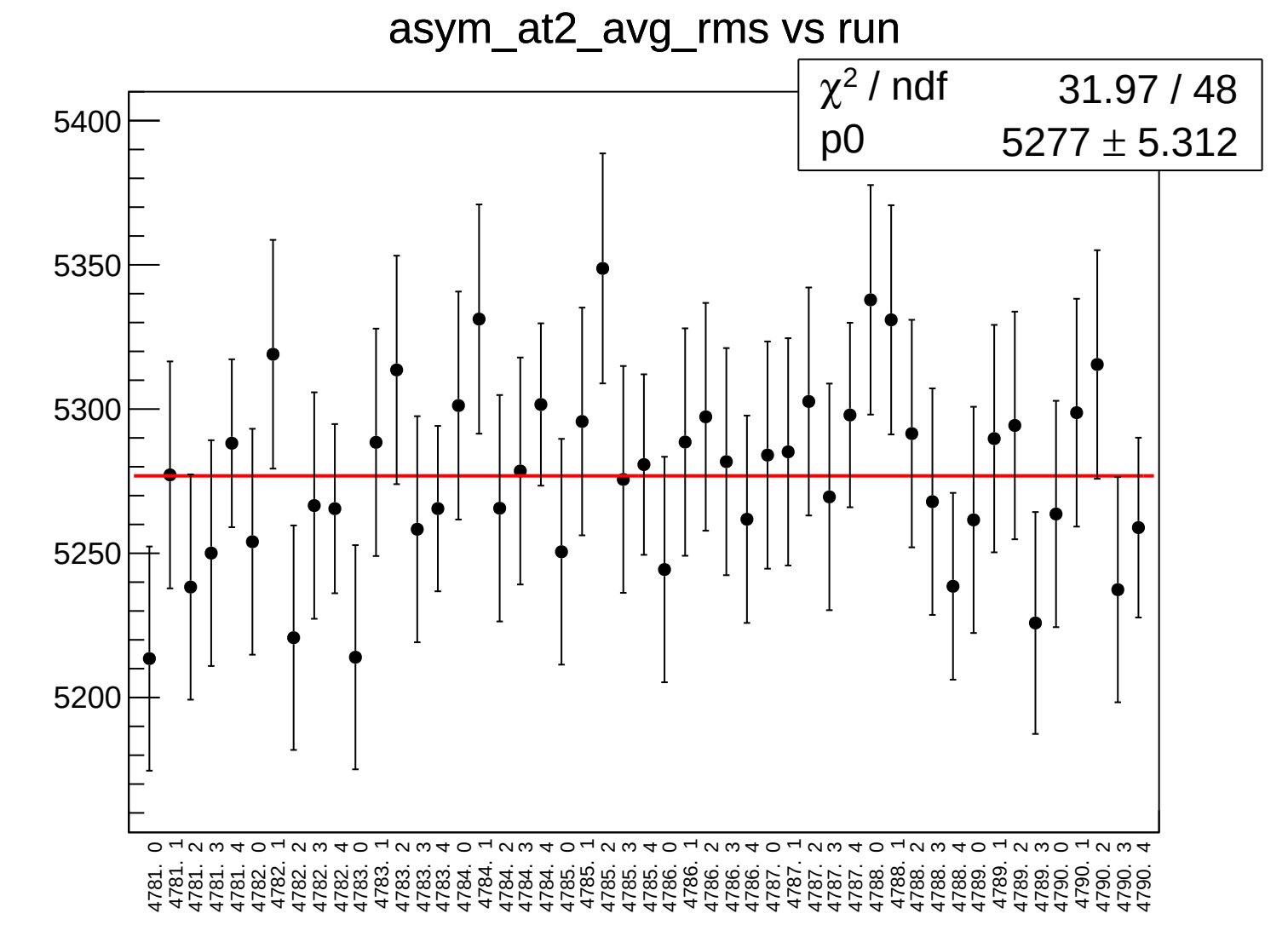

asym_at2_avg_correction_mean vs run
χ² / ndf 74.3 / 48
p0 226.3 ± 285.1
10000
5000
0
−5000
−10000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −2.641
Std Dev 13.23
3
2
1
0
−1
−2

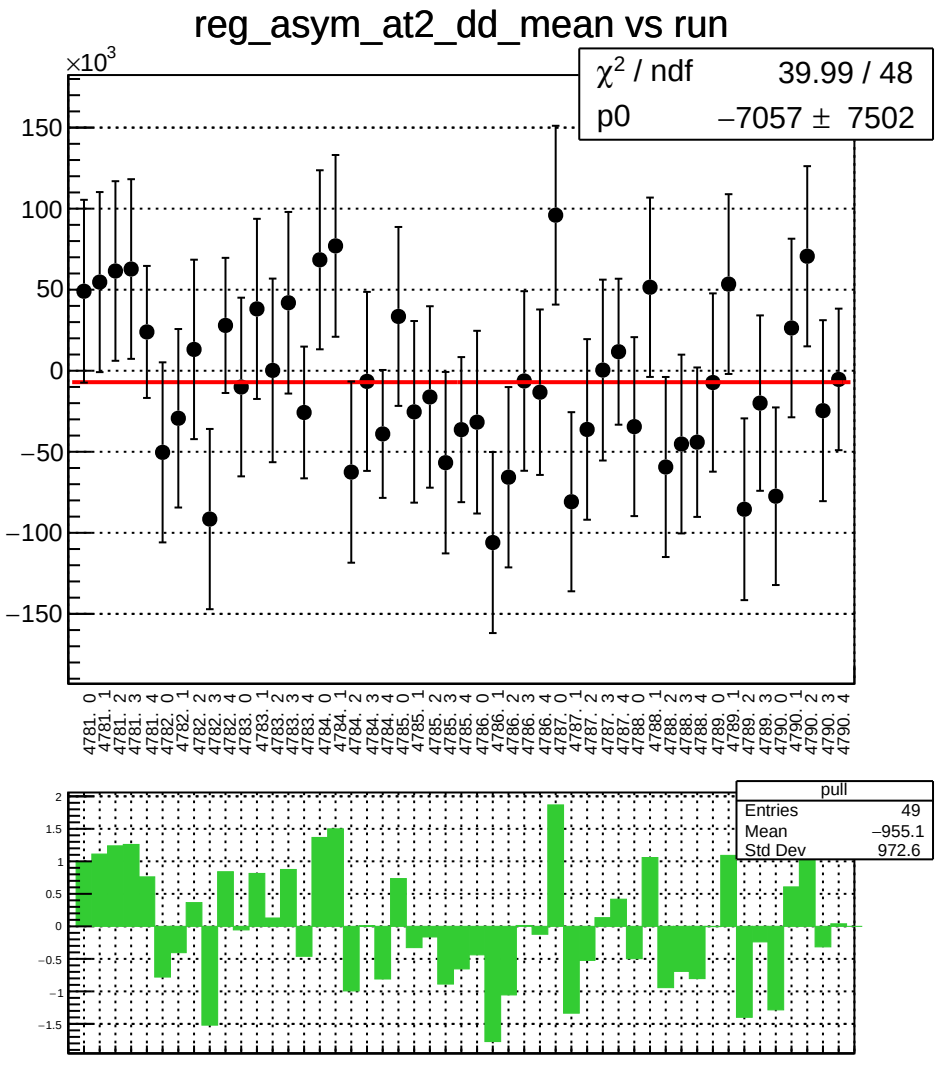

pull1D
Entries 49
Mean −0.02815
Std Dev 1.231
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

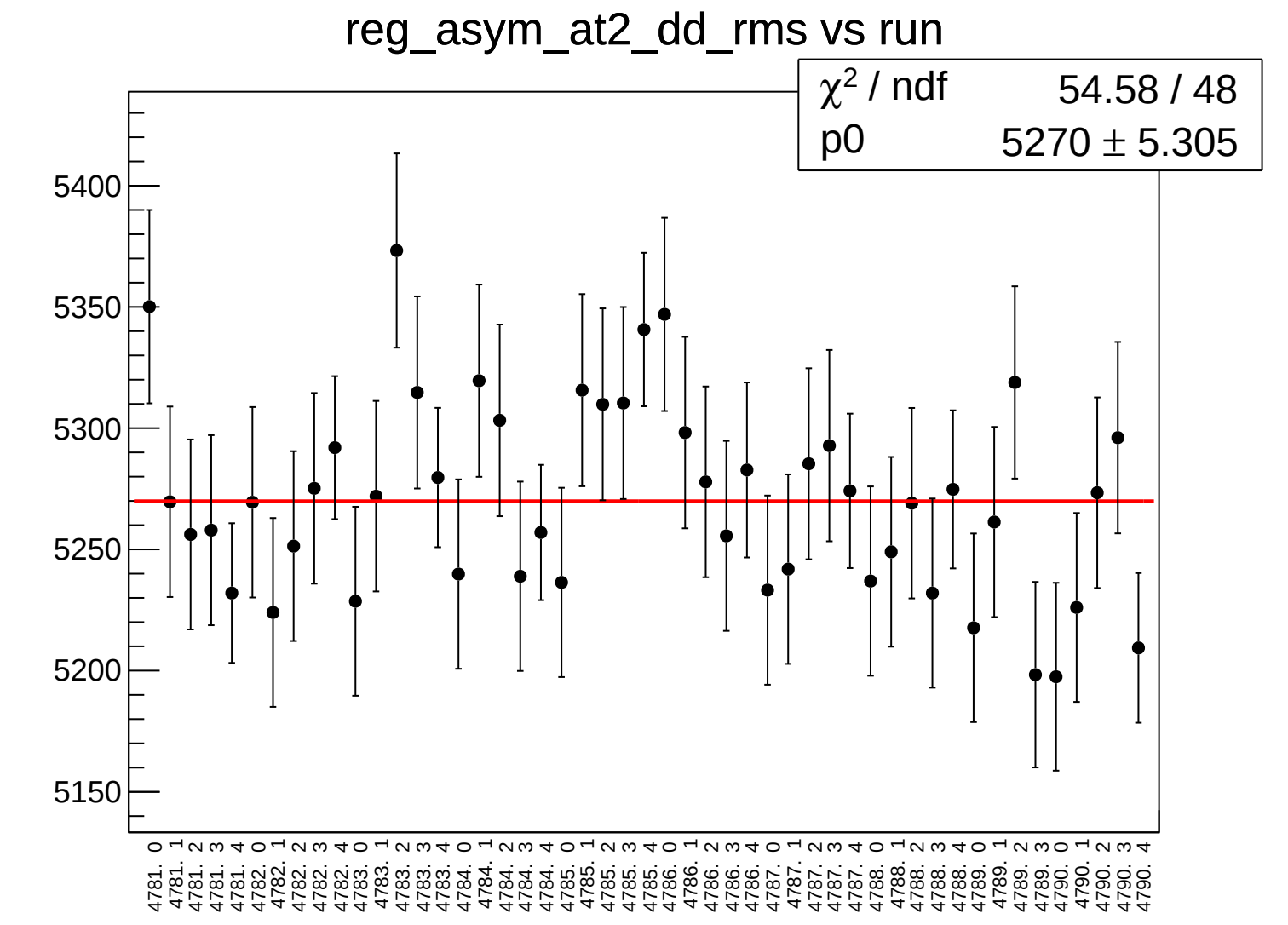

asym_at2_avg_correction_rms vs run
χ² / ndf 8.408e+04 / 48
p0 191.6 ± 0.2016
350
300
250
200
150
100
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

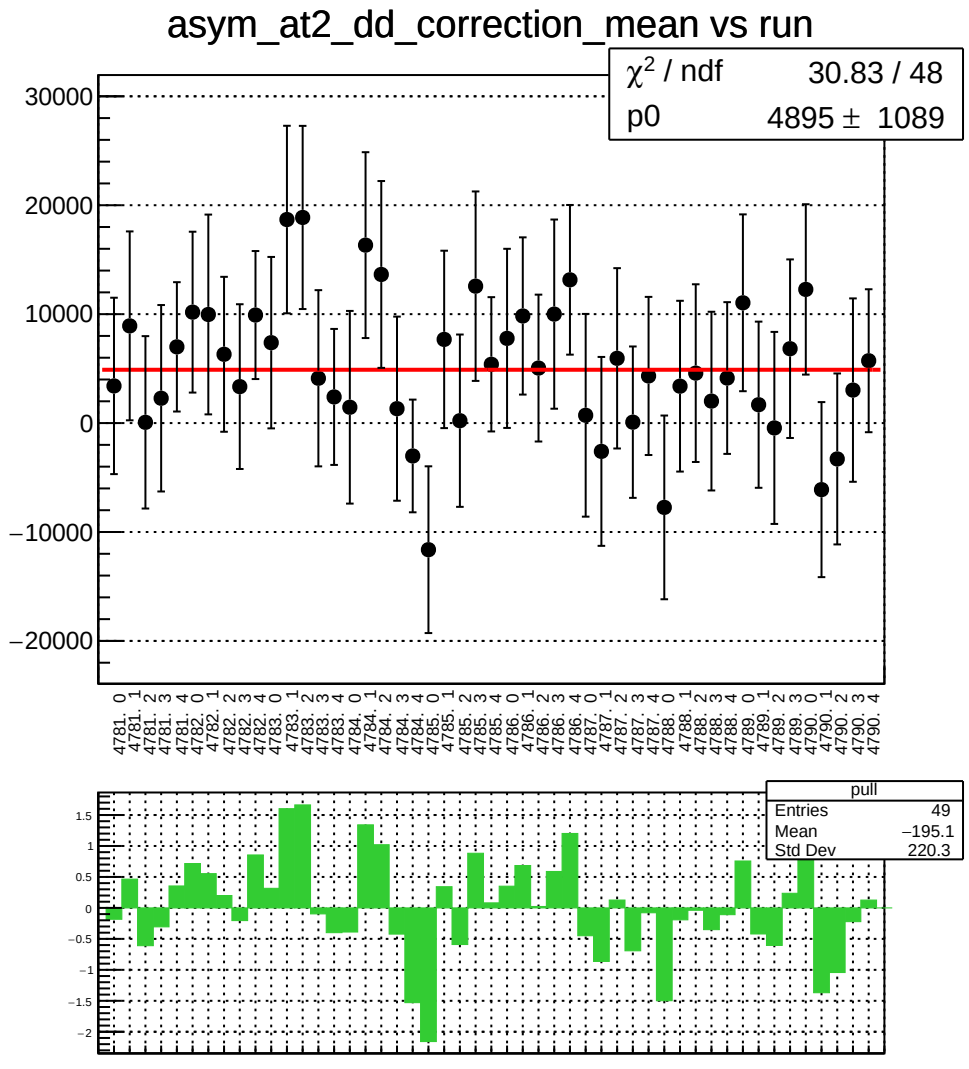

asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 41.24 / 48
p0 8702 ± 7512
150
100
50
0
−50
−100
−150
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −58
Std Dev 101.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

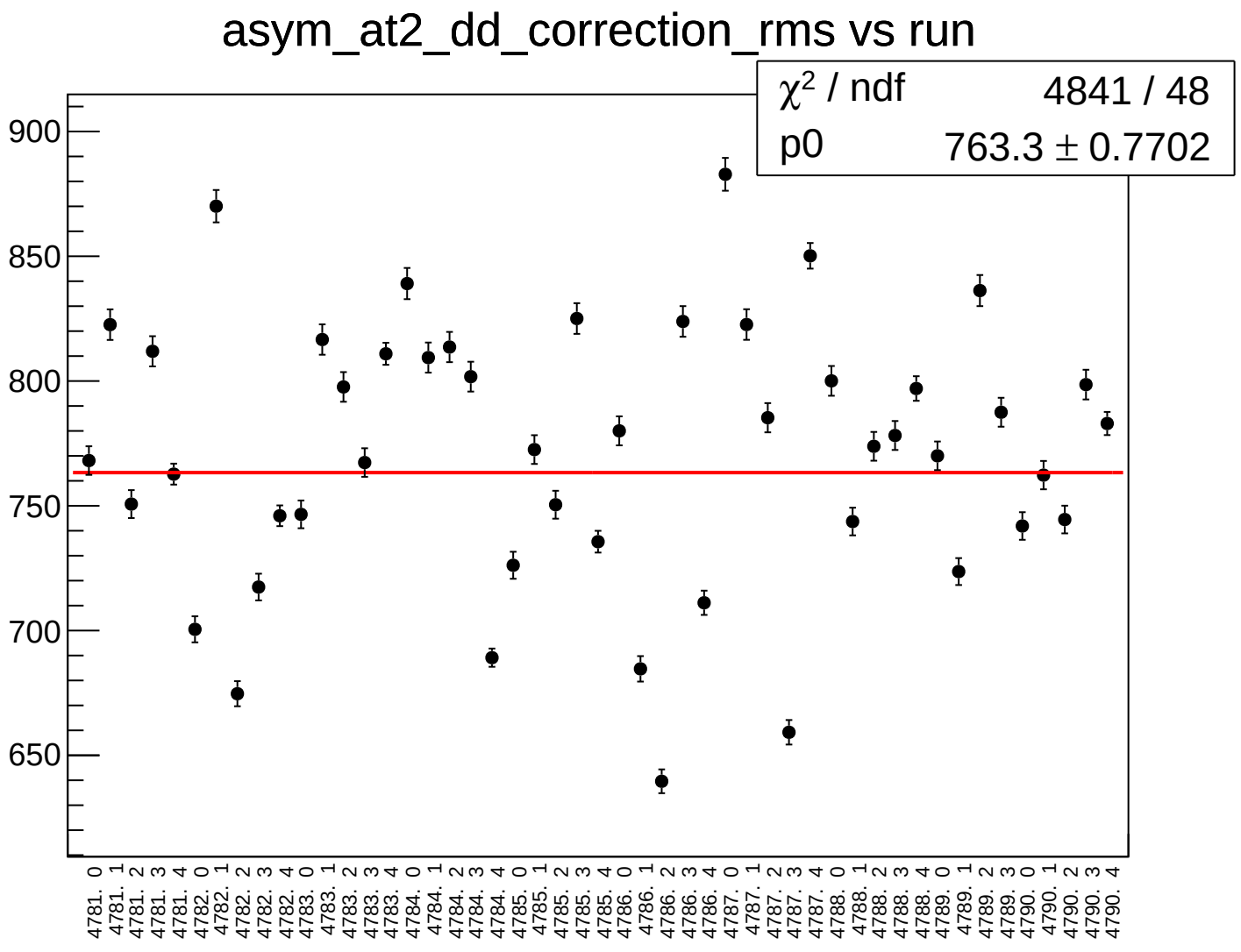

pull1D
Entries 49
Mean −0.005248
Std Dev 0.9174
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

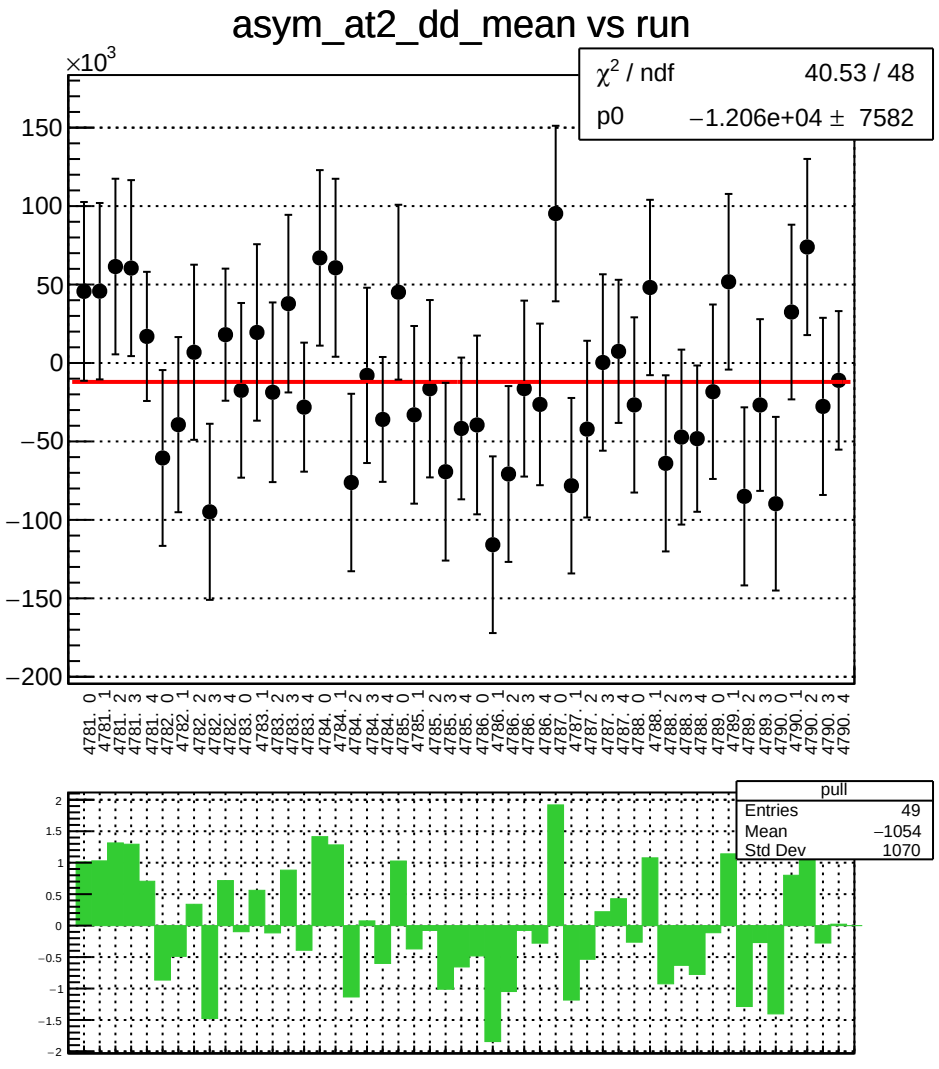

asym_at2_avg_rms vs run
χ^2 / ndf 31.97 / 48
p0 5277 ± 5.312
5400
5350
5300
5250
5200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

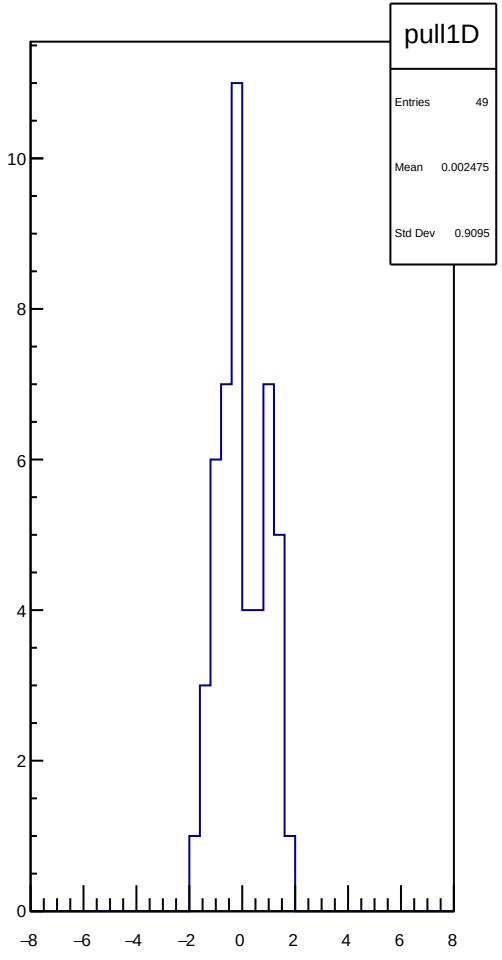

reg_asym_at2_dd_mean vs run
×10^3
χ² / ndf 39.99 / 48
p0 −7057 ± 7502
150
100
50
0
−50
−100
−150
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −955.1
Std Dev 972.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 49
Mean 0.003174
Std Dev 0.9034
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

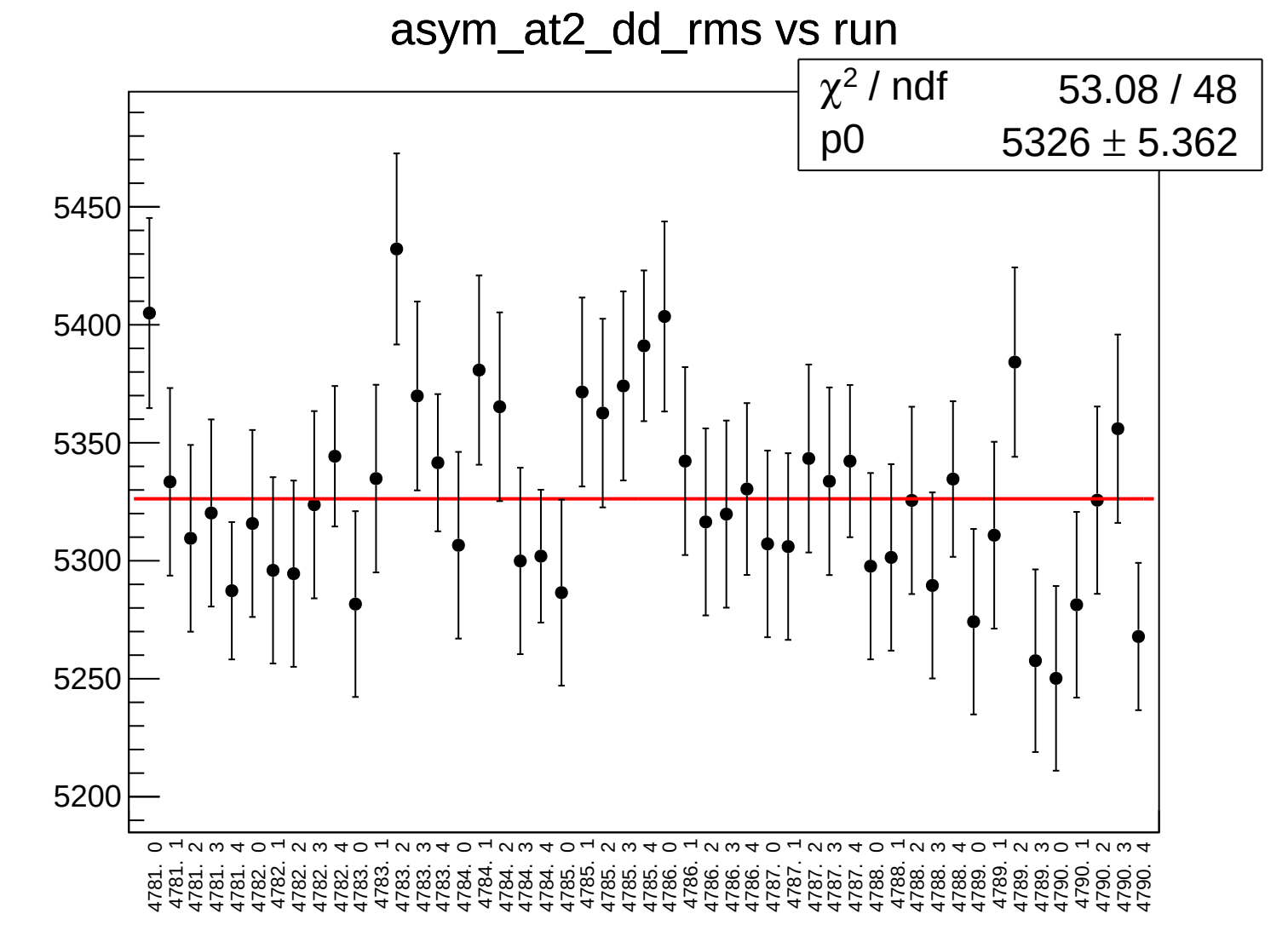

reg_asym_at2_dd_rms vs run
χ² / ndf 54.58 / 48
p0 5270 ± 5.305
5400
5350
5300
5250
5200
5150
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

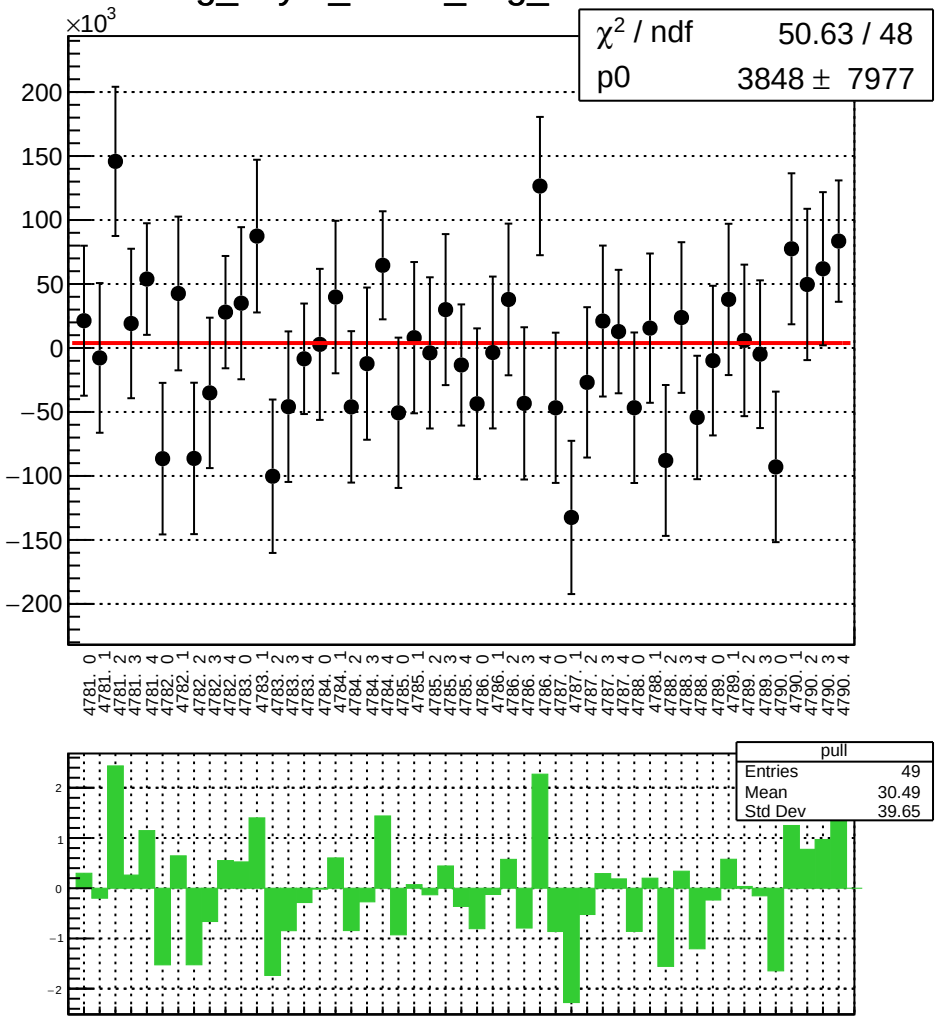

asym_at2_dd_correction_mean vs run
χ² / ndf 30.83 / 48
p0 4895 ± 1089
30000
20000
10000
0
−10000
−20000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −195.1
Std Dev 220.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean 0.01238
Std Dev 0.7932
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

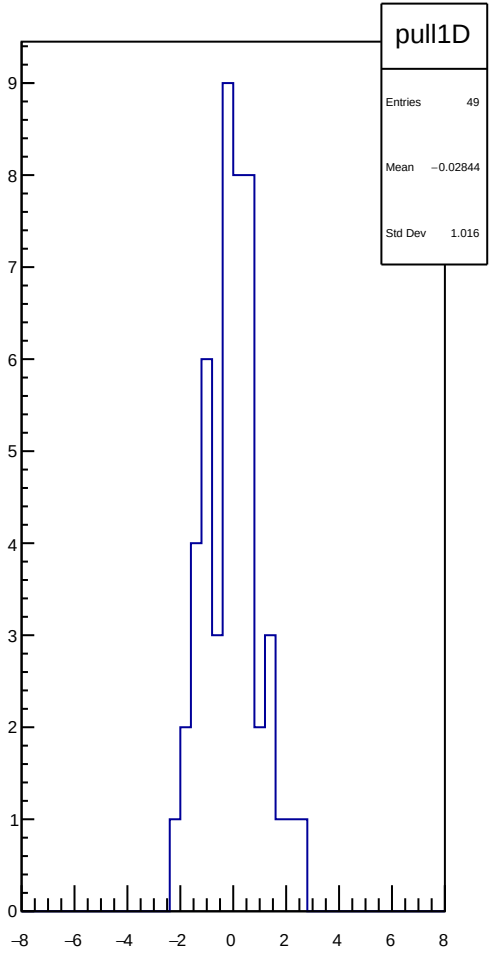

asym_at2_dd_correction_rms vs run
χ² / ndf 4841 / 48
p0 763.3 ± 0.7702
900
850
800
750
700
650
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

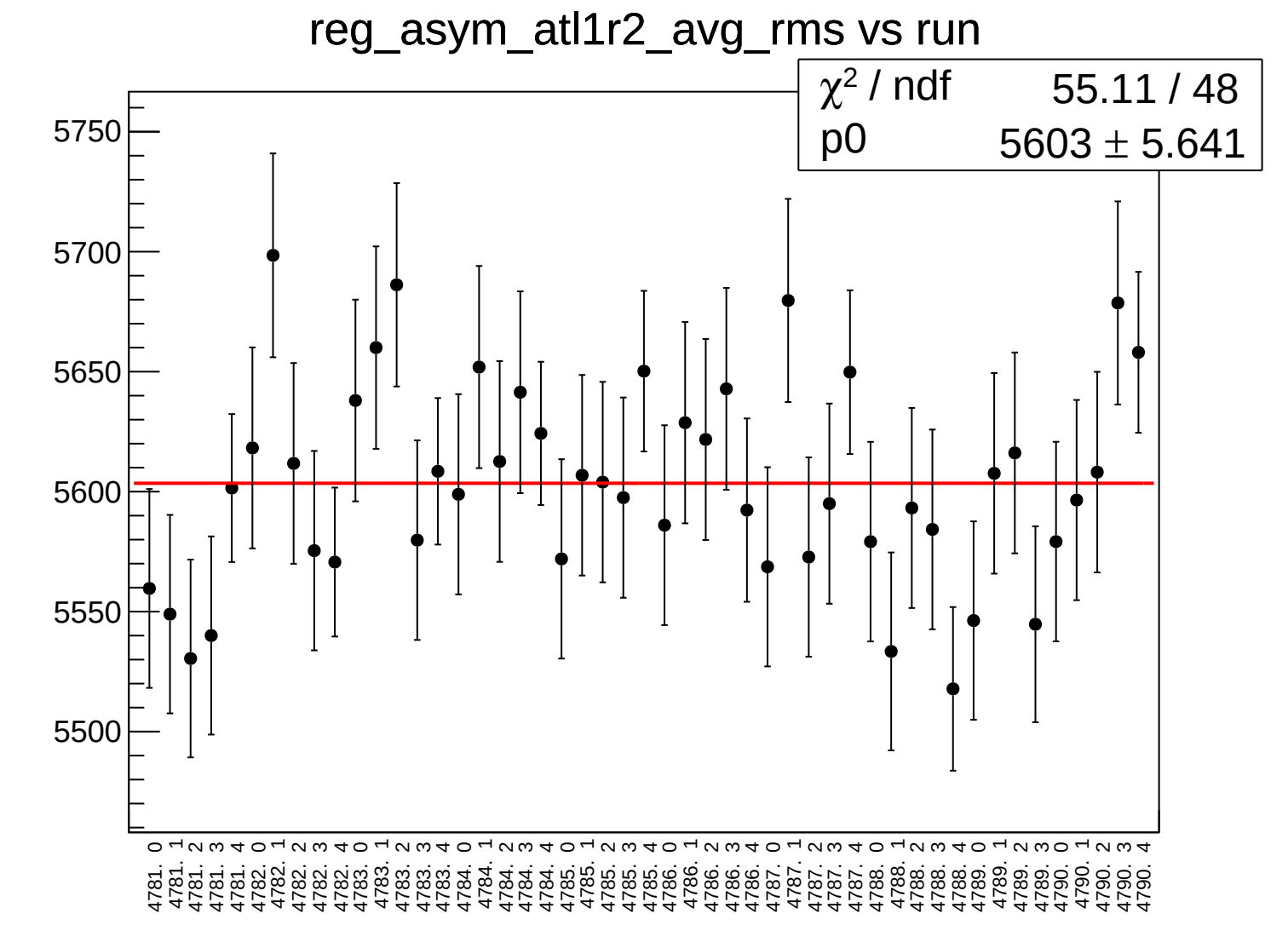

asym_at2_dd_mean vs run
×10^3
χ² / ndf 40.53 / 48
p0 −1.206e+04 ± 7582
150
100
50
0
−50
−100
−150
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −1054
Std Dev 1070
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

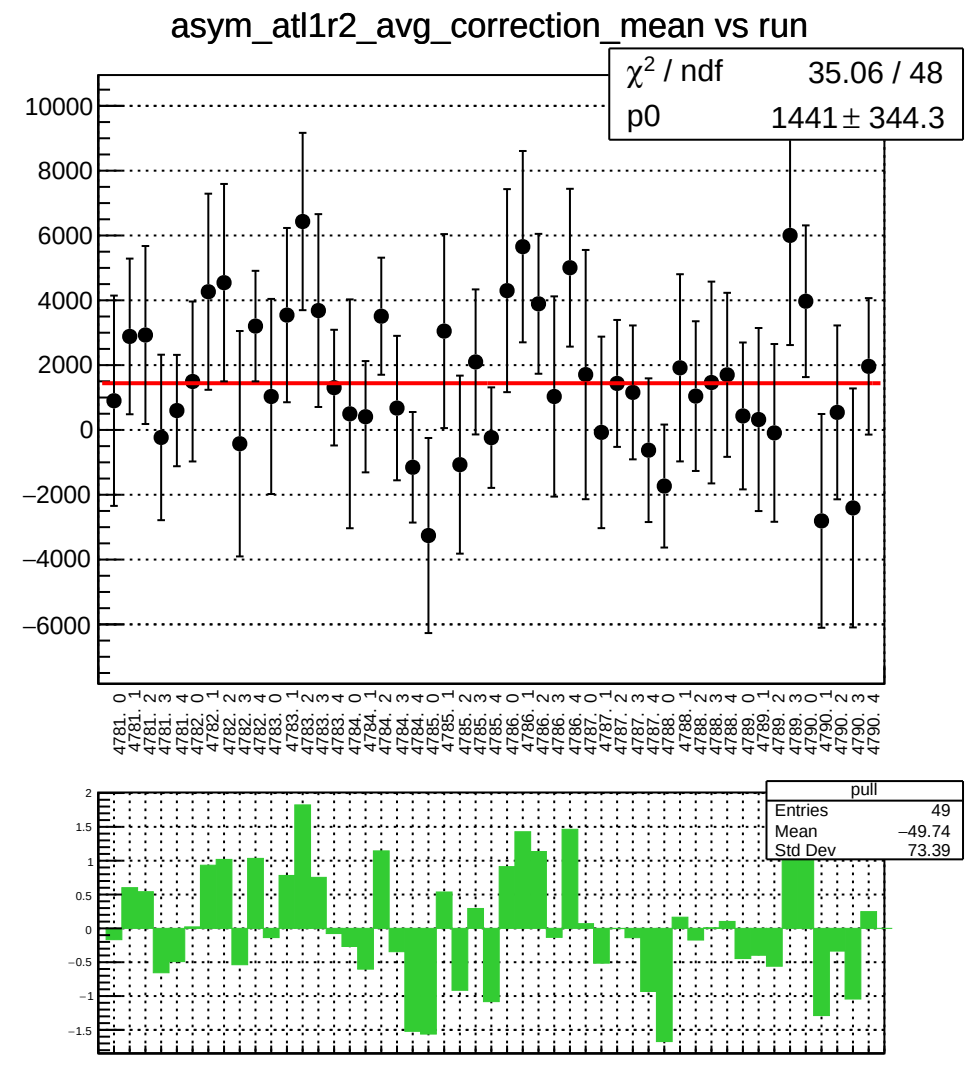

pull1D
Entries 49
Mean 0.002475
Std Dev 0.9095
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

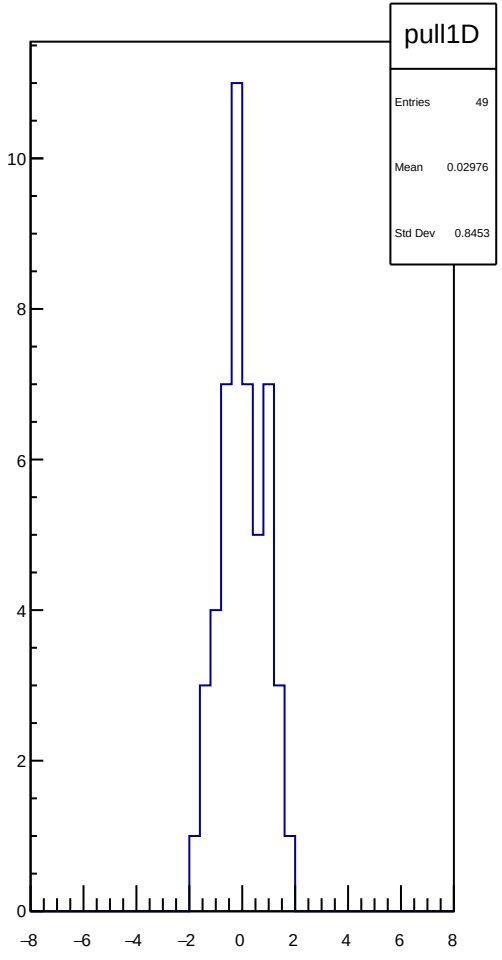

asym_at2_dd_rms vs run
χ^2 / ndf 53.08 / 48
p0 5326 ± 5.362
5450
5400
5350
5300
5250
5200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

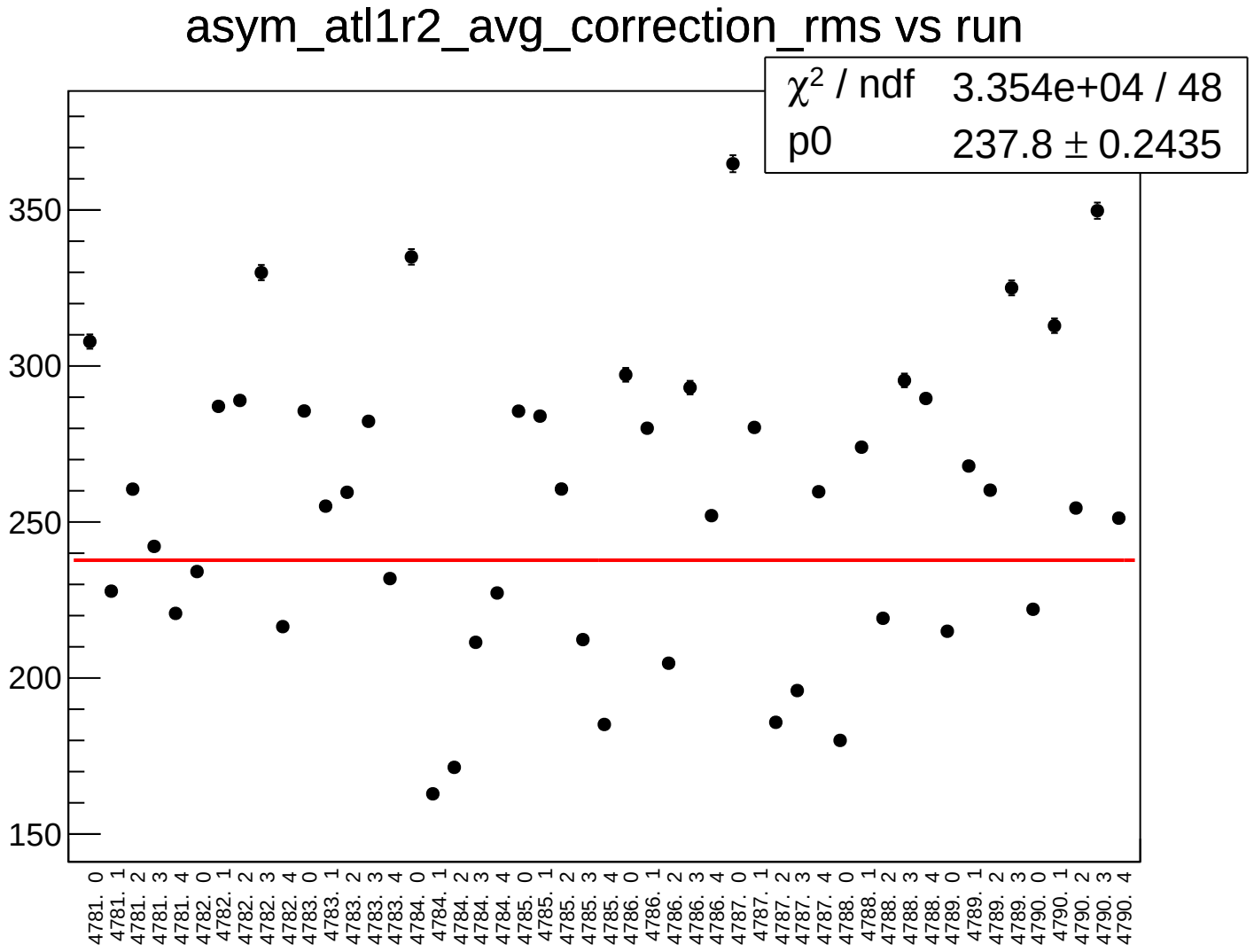

reg_asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 50.63 / 48
p0 3848 ± 7977
200
150
100
50
0
−50
−100
−150
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 30.49
Std Dev 39.65
2
1
0
−1
−2

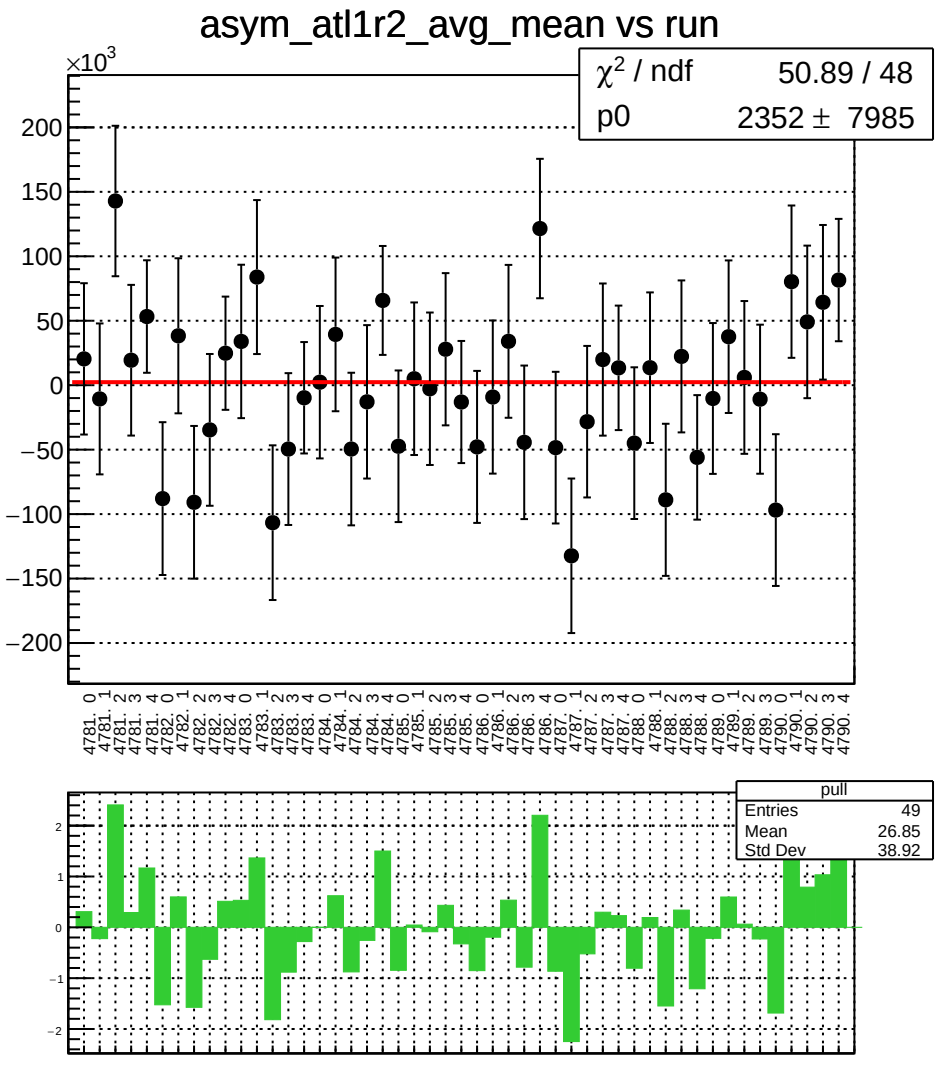

pull1D
Entries 49
Mean −0.02844
Std Dev 1.016
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

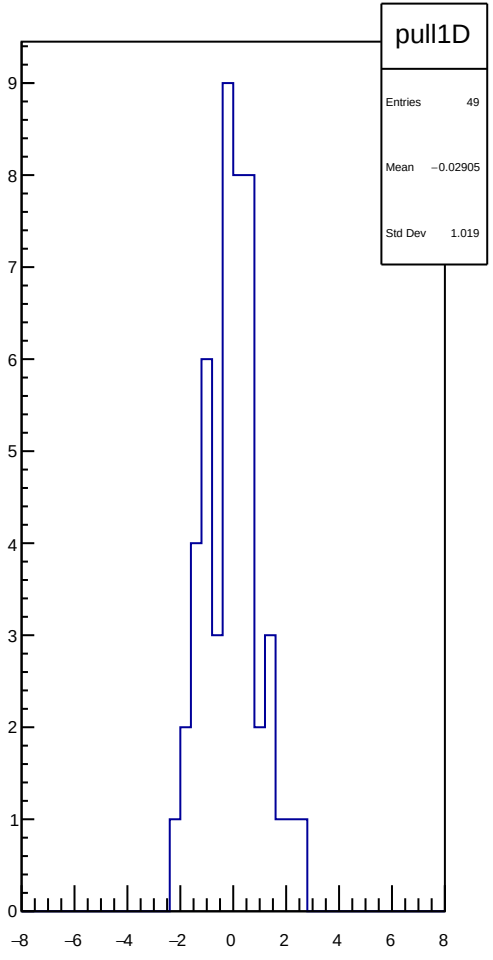

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 55.11 / 48
p0 5603 ± 5.641
5750
5700
5650
5600
5550
5500
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

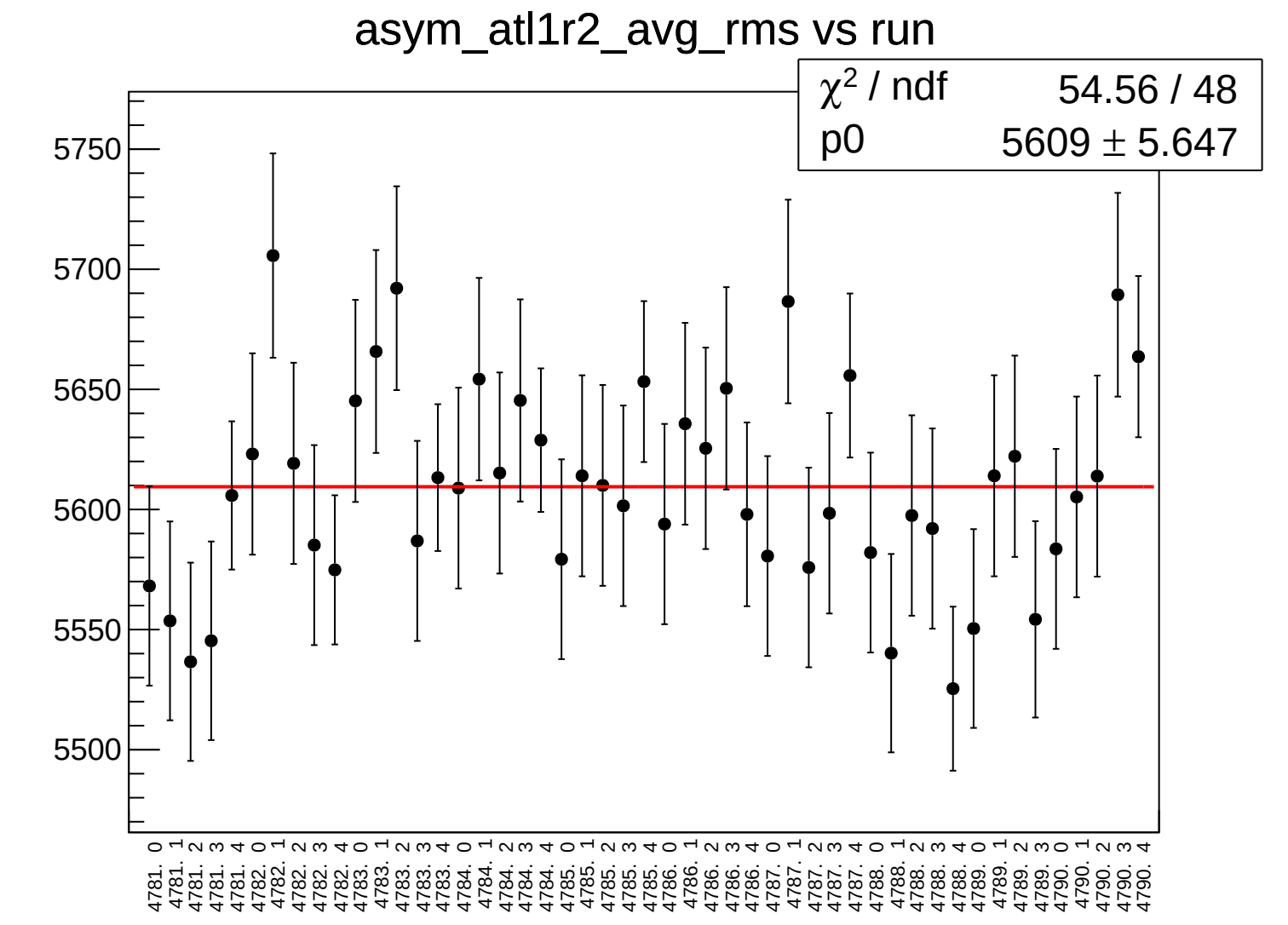

asym_atl1r2_avg_correction_mean vs run
χ² / ndf 35.06 / 48
p0 1441 ± 344.3
pull
Entries 49
Mean −49.74
Std Dev 73.39

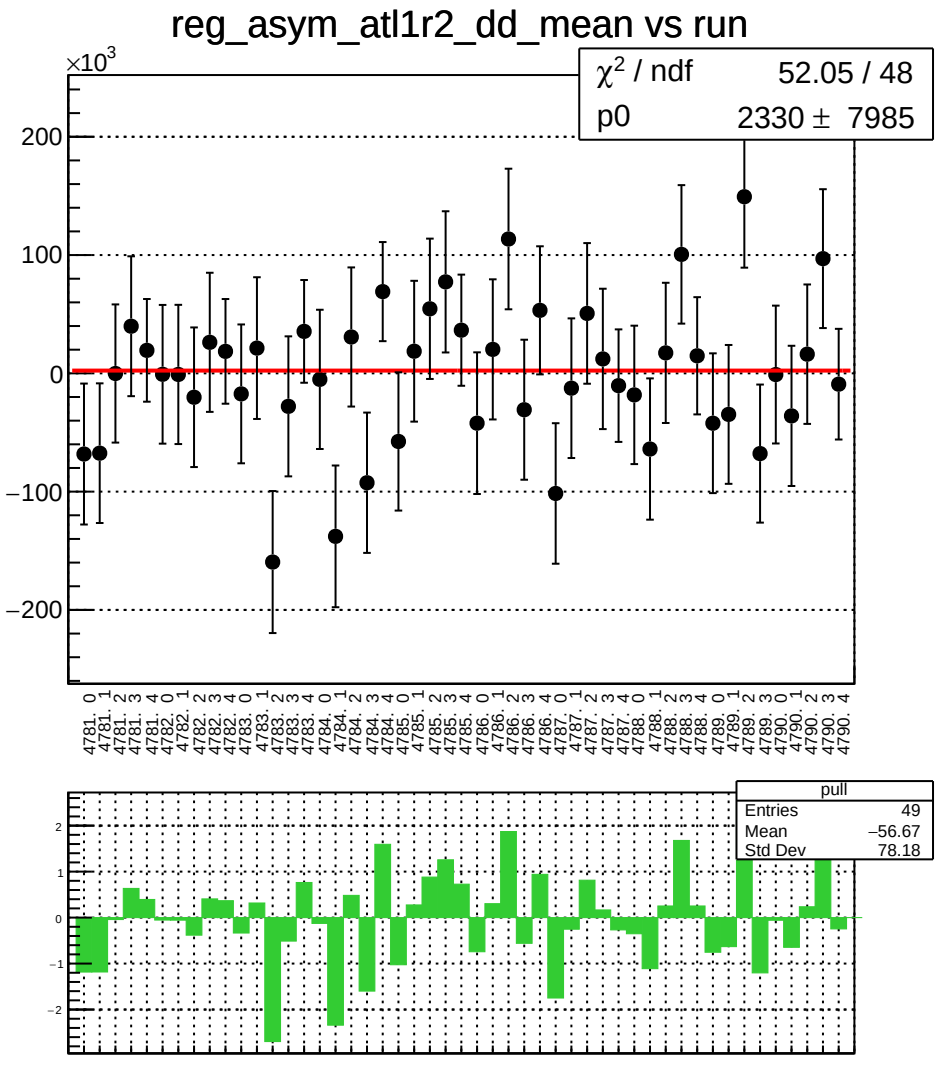

pull1D
Entries 49
Mean 0.02976
Std Dev 0.8453

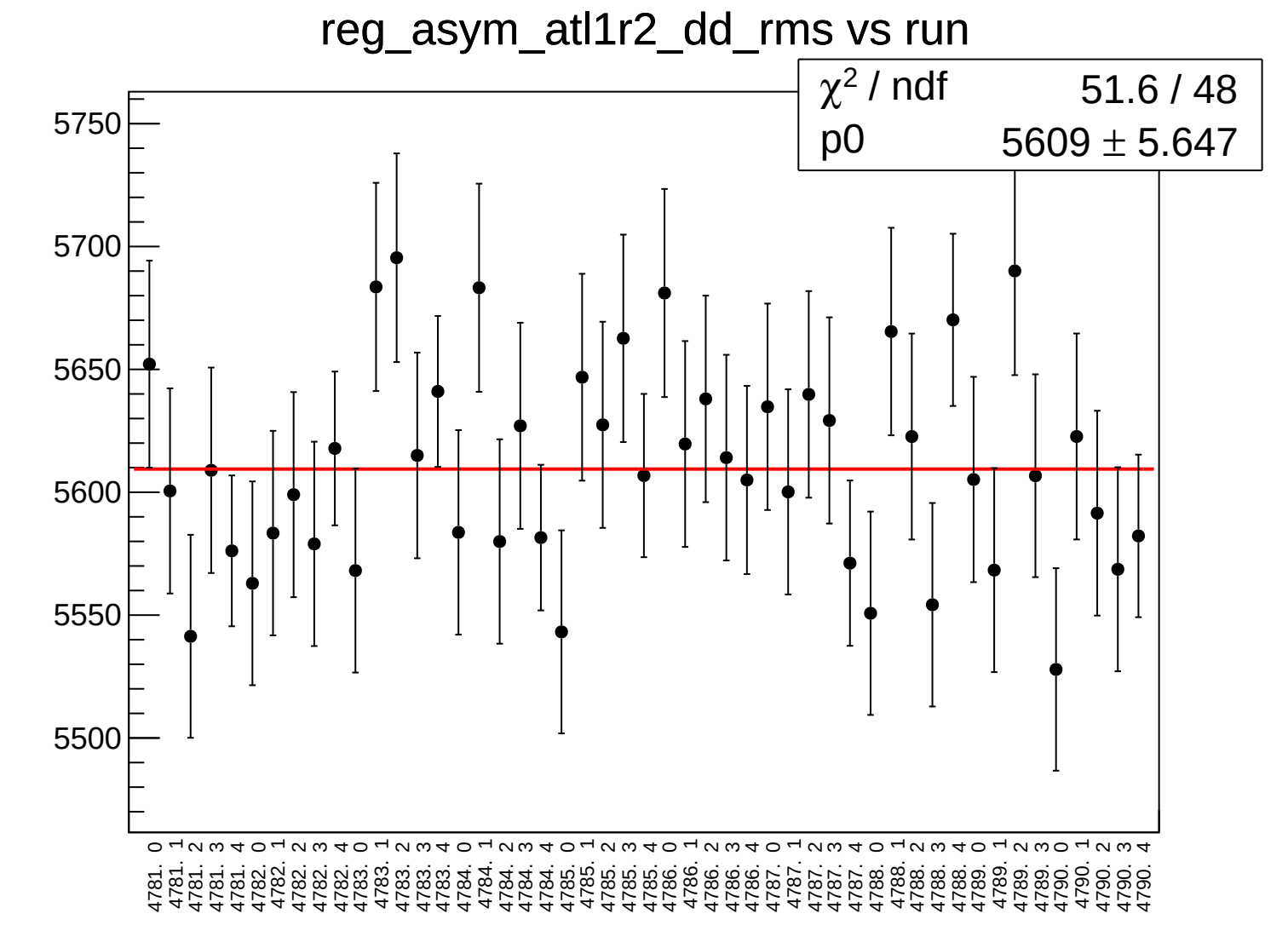

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 3.354e+04 / 48
p0 237.8 ± 0.2435
350
300
250
200
150
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

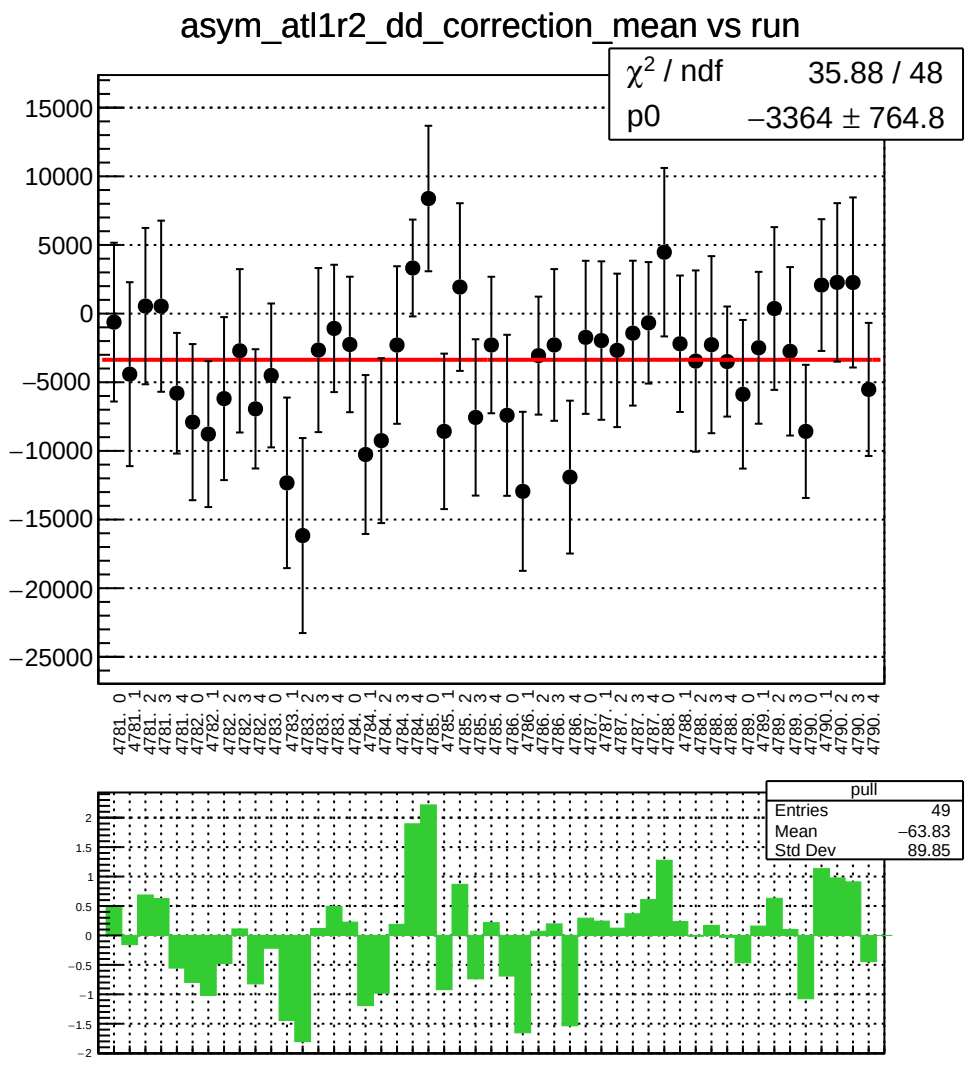

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 50.89 / 48
p0 2352 ± 7985
200
150
100
50
0
−50
−100
−150
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 26.85
Std Dev 38.92
2
1
0
−1
−2

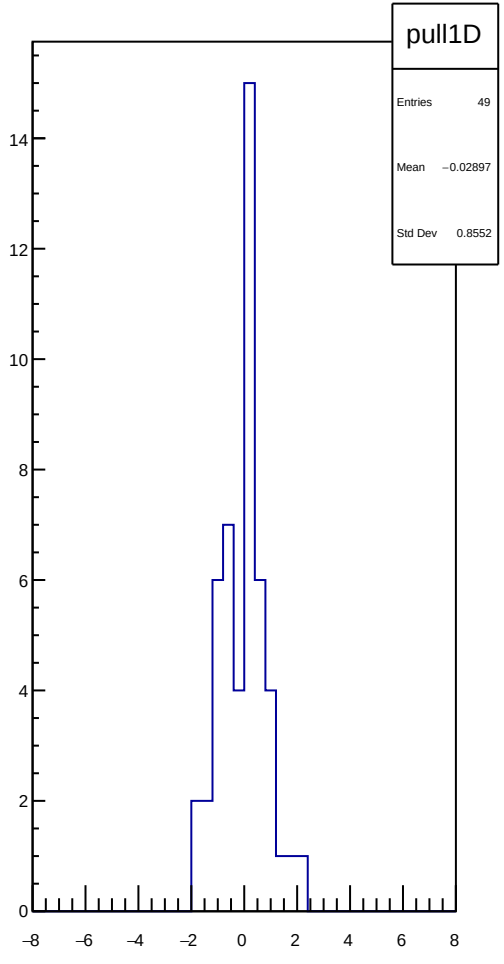

pull1D
Entries 49
Mean −0.02905
Std Dev 1.019
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

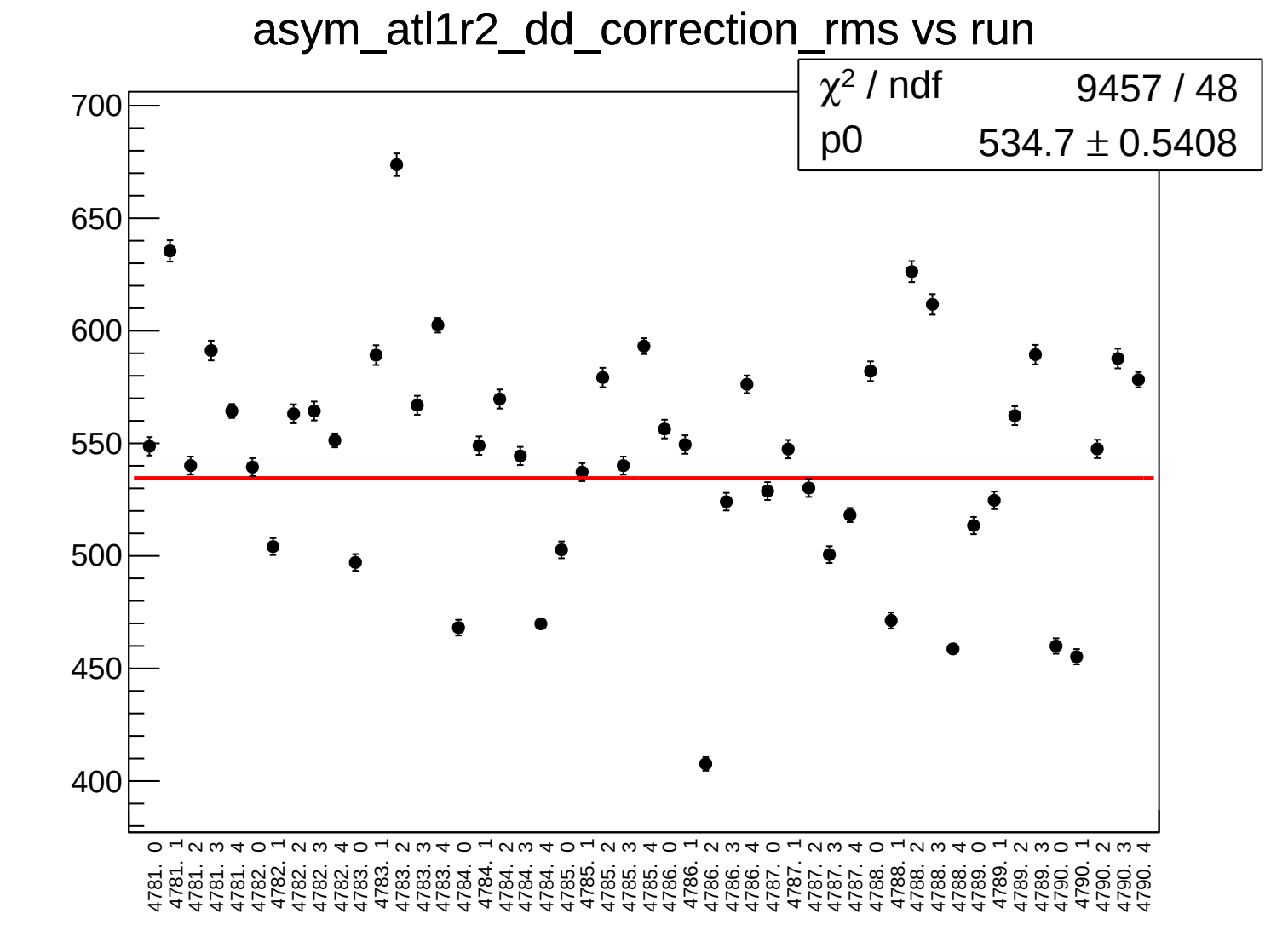

asym_atl1r2_avg_rms vs run
χ^2 / ndf 54.56 / 48
p0 5609 ± 5.647
5750
5700
5650
5600
5550
5500
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

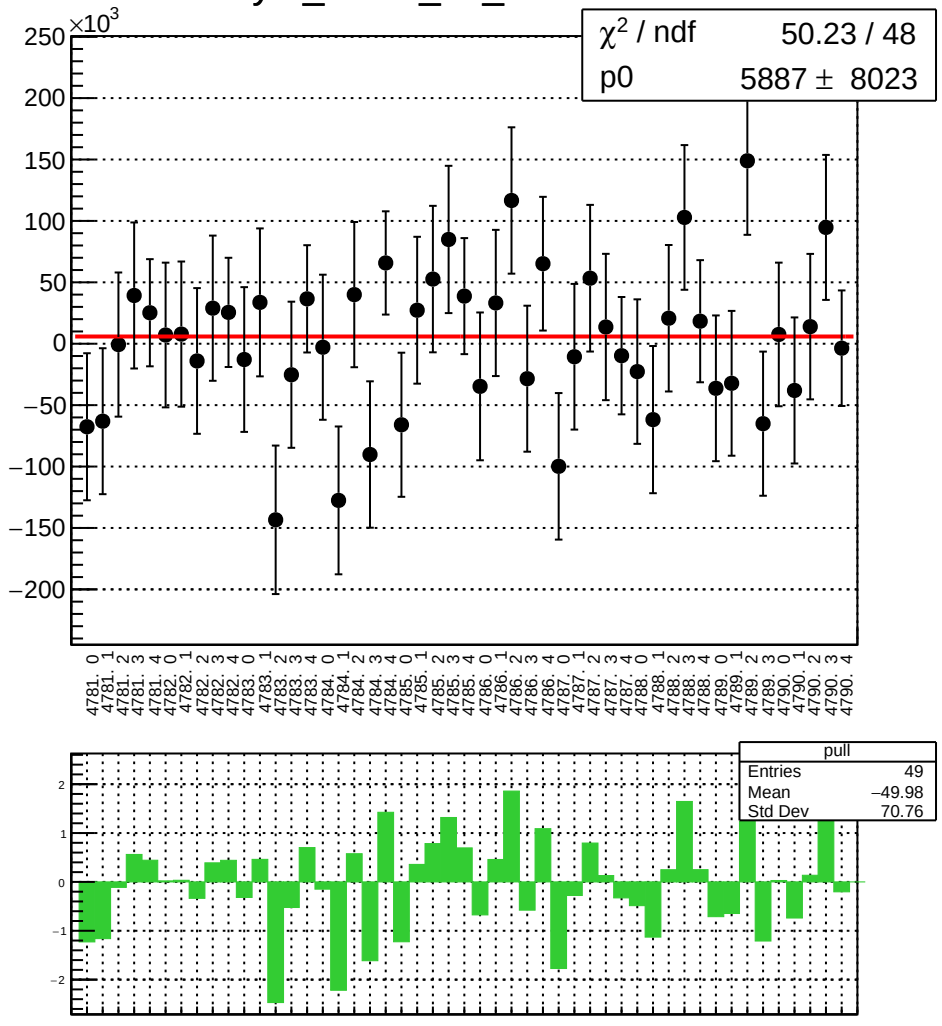

reg_asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 52.05 / 48
p0 2330 ± 7985
200
100
0
−100
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −56.67
Std Dev 78.18
2
1
0
−1
−2
pull1D
Entries 49
Mean −0.02908
Std Dev 1.03
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

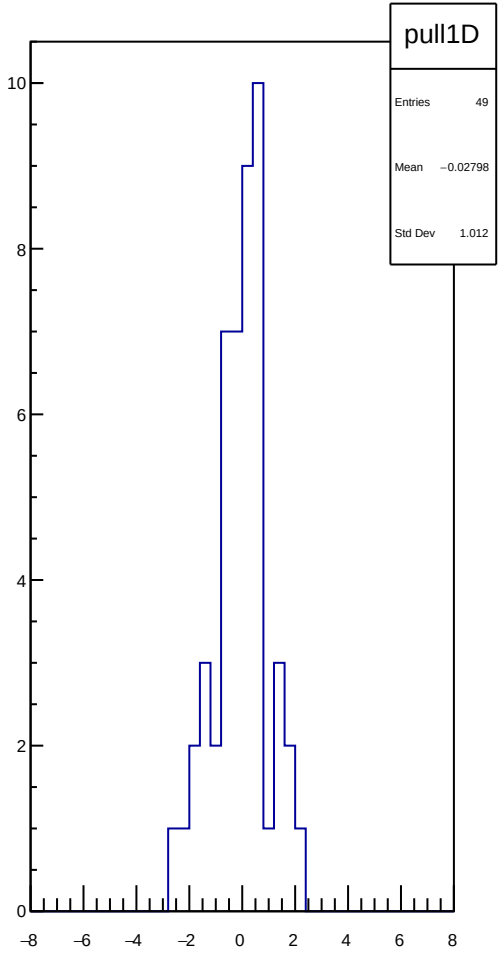

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 51.6 / 48
p0 5609 ± 5.647
5750
5700
5650
5600
5550
5500
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

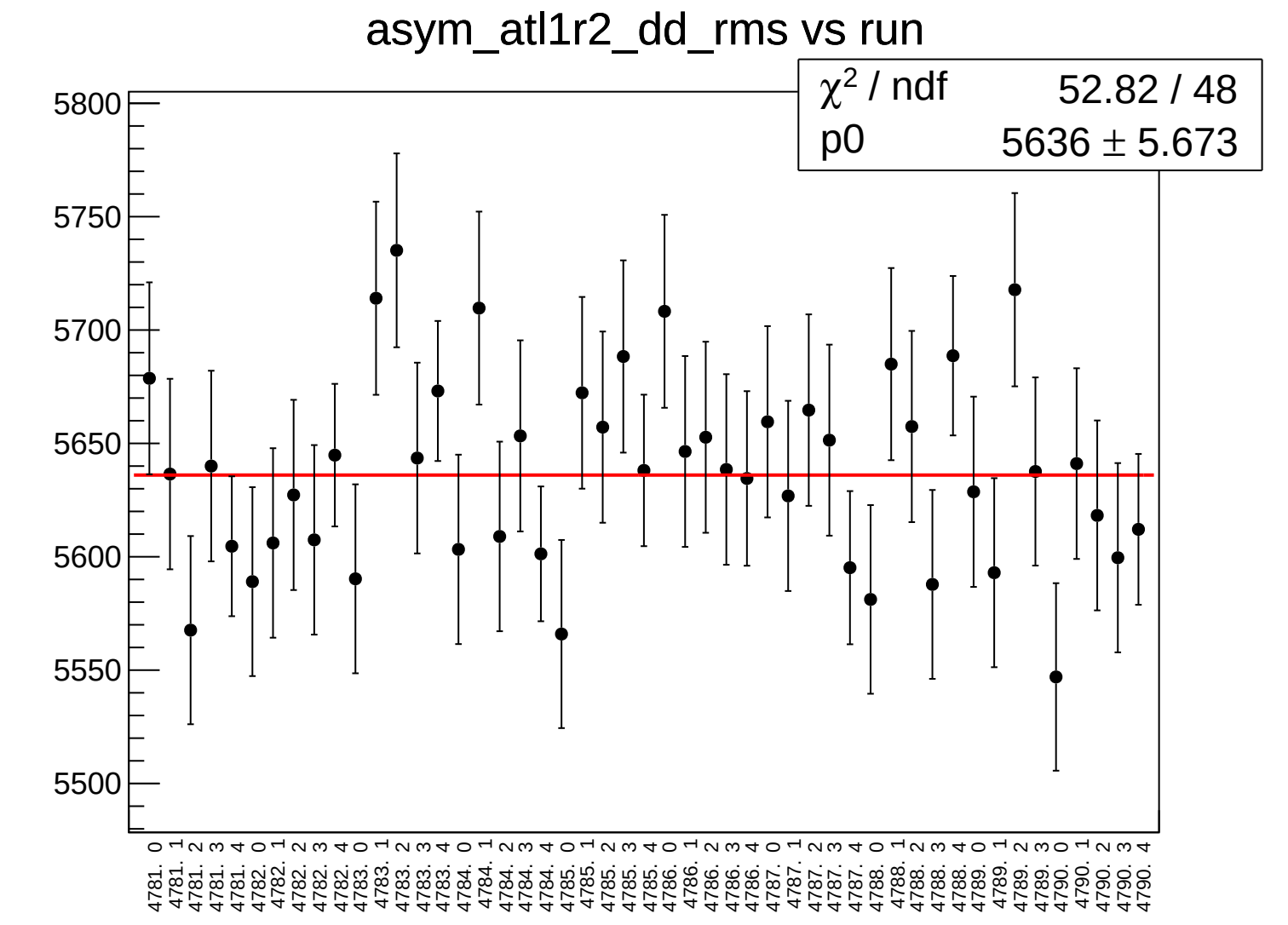

asym_atl1r2_dd_correction_mean vs run
χ² / ndf 35.88 / 48
p0 −3364 ± 764.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −63.83
Std Dev 89.85
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

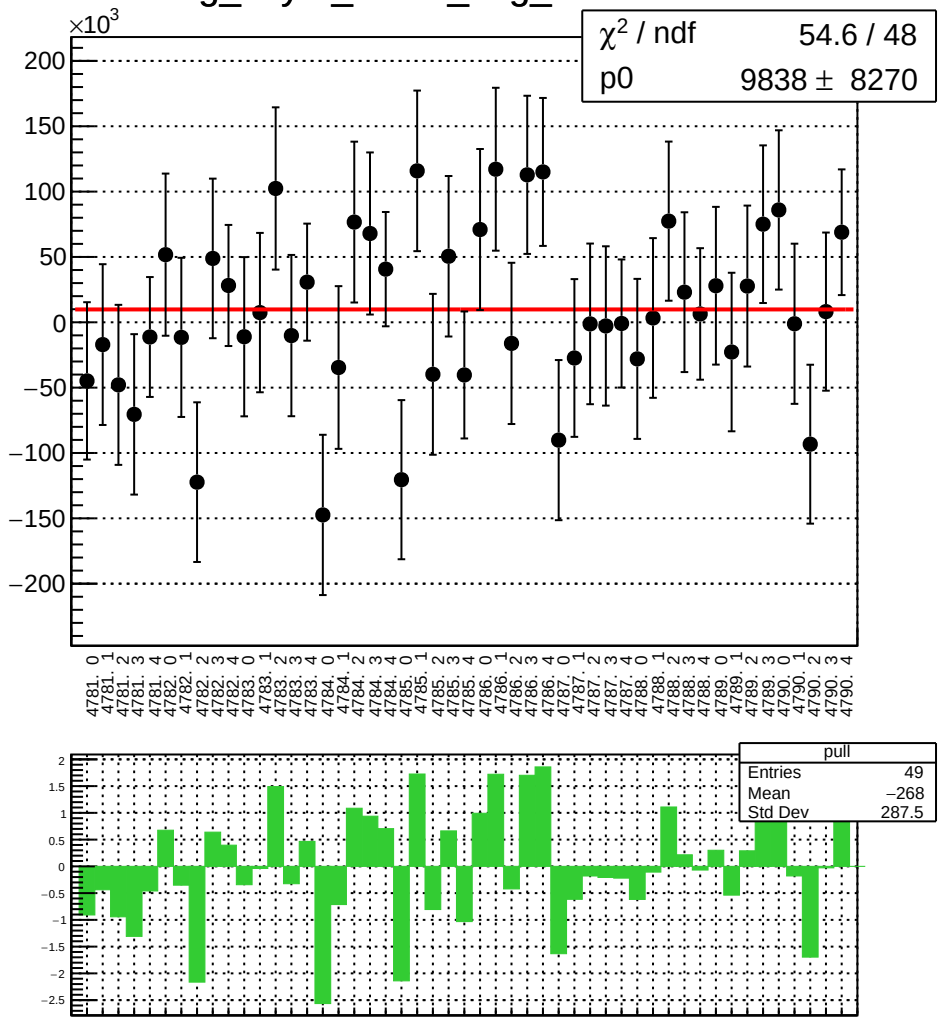

pull1D
Entries 49
Mean −0.02897
Std Dev 0.8552
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

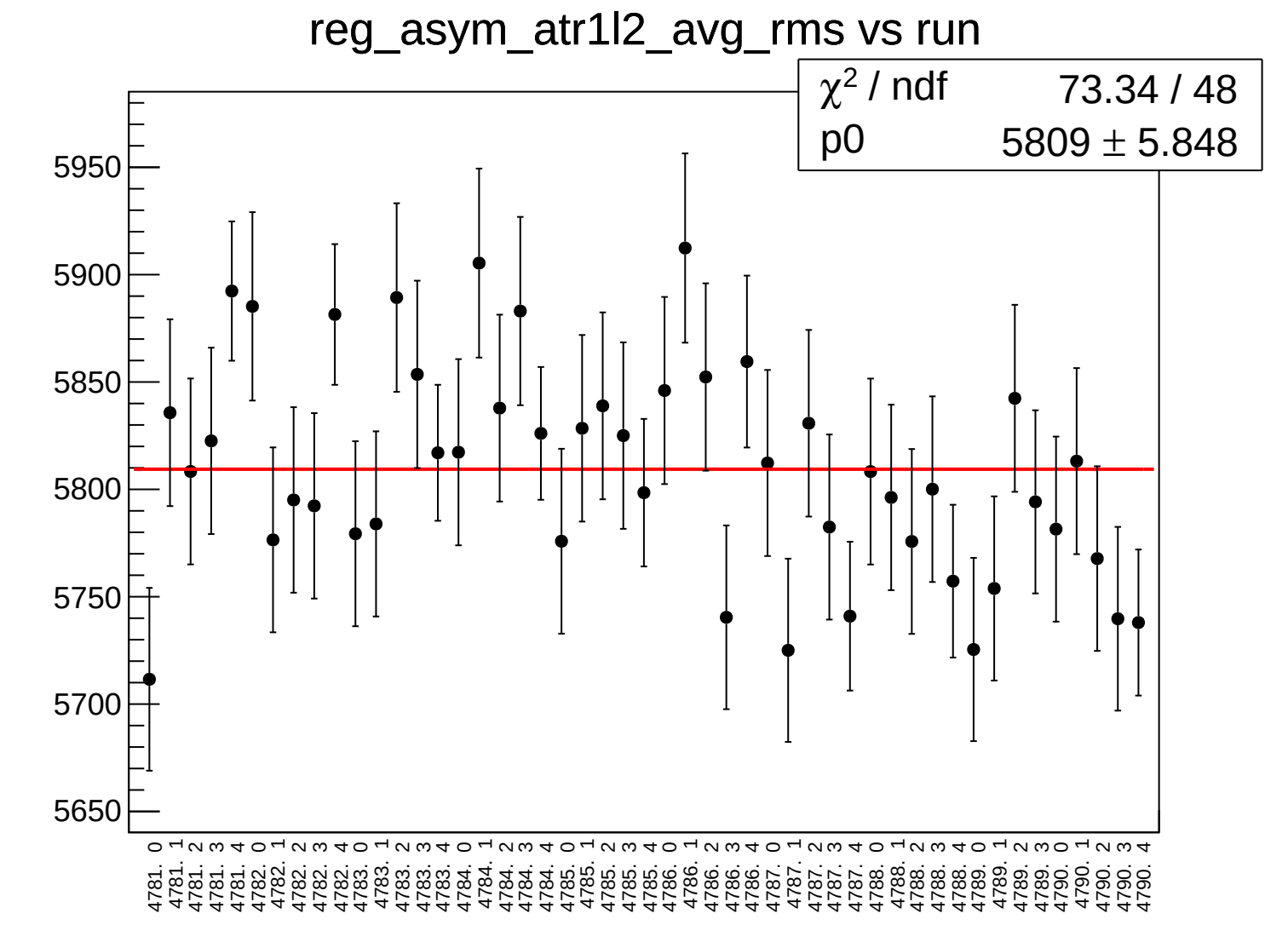

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 9457 / 48
p0 534.7 ± 0.5408
700
650
600
550
500
450
400
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

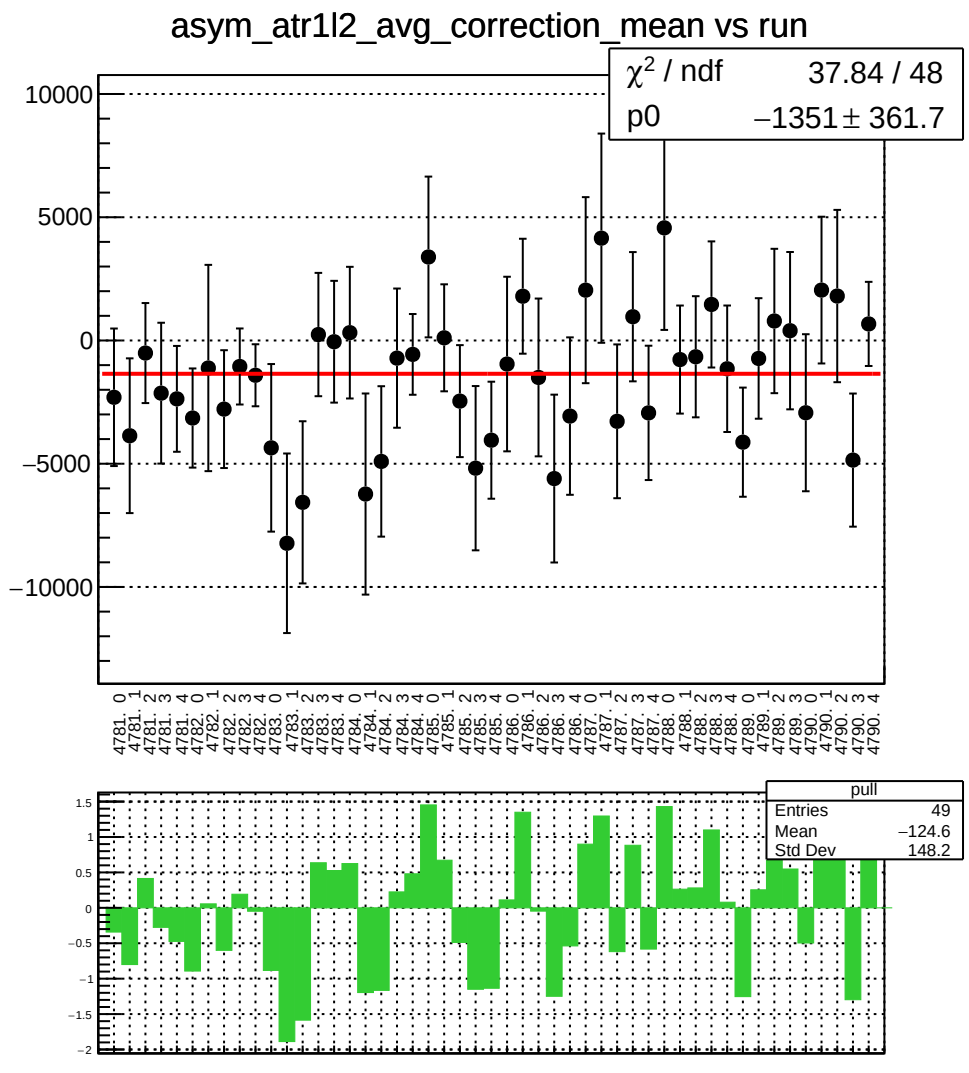

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 50.23 / 48
p0 5887 ± 8023
pull
Entries 49
Mean −49.98
Std Dev 70.76

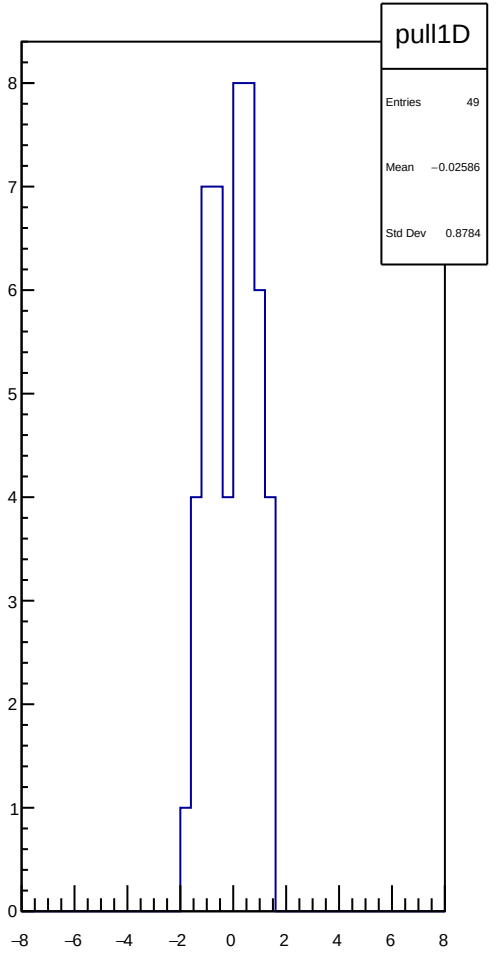

pull1D
Entries 49
Mean −0.02798
Std Dev 1.012

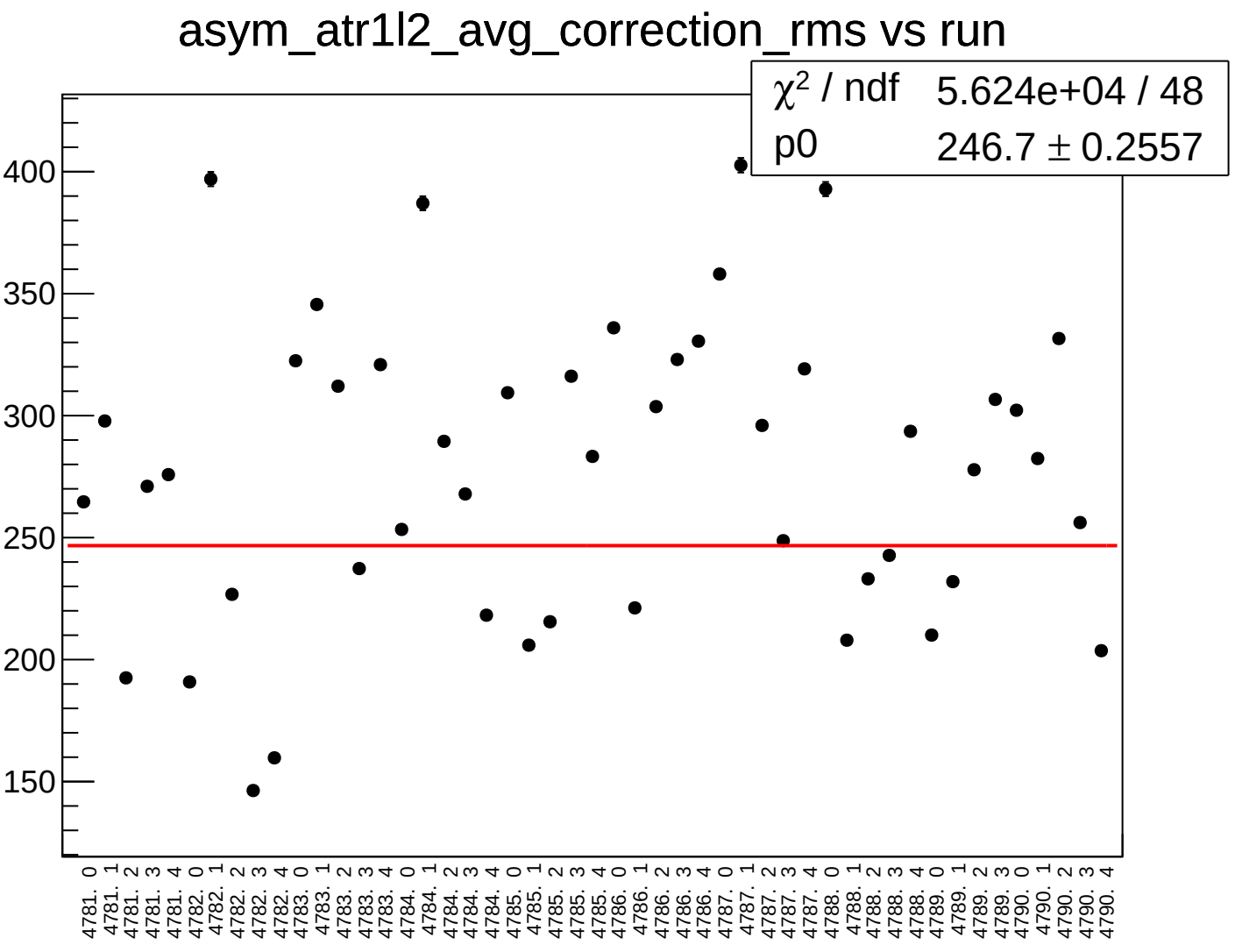

asym_atl1r2_dd_rms vs run
χ^2 / ndf 52.82 / 48
p0 5636 ± 5.673
5800
5750
5700
5650
5600
5550
5500
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

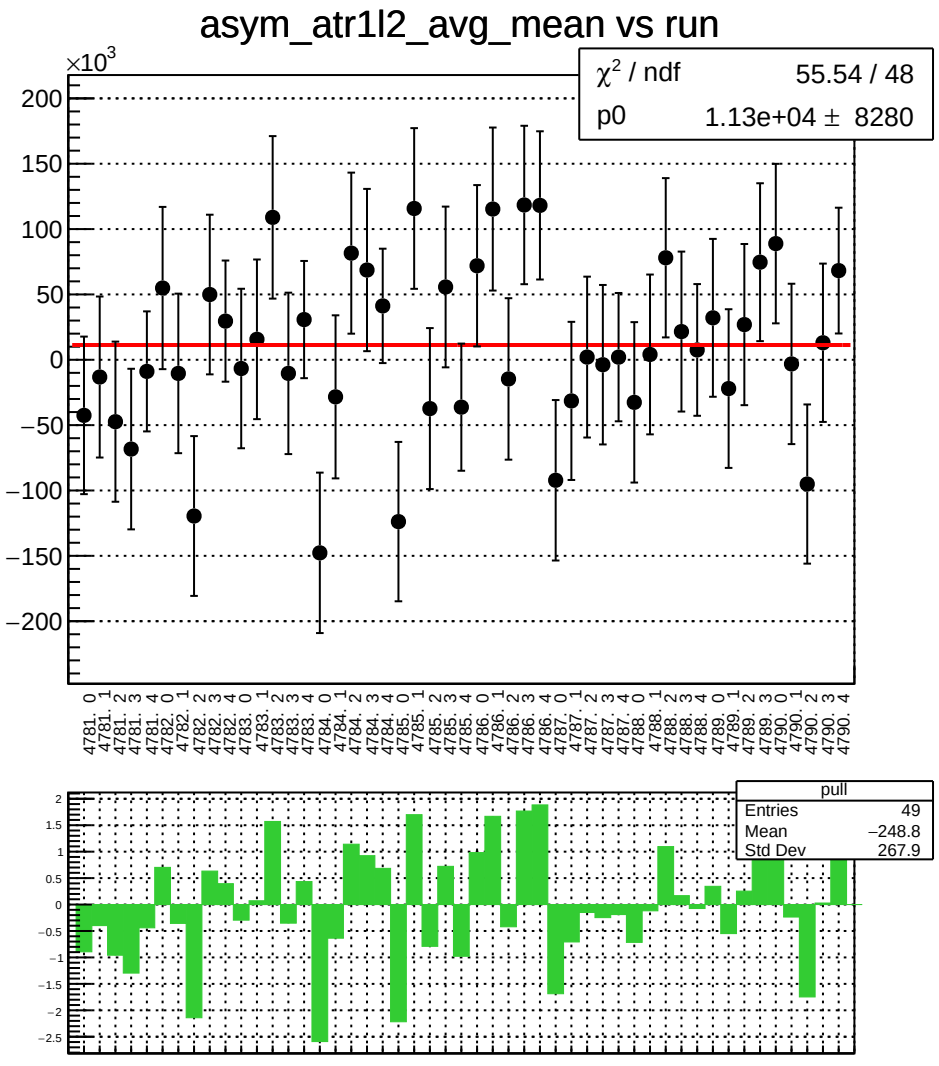

reg_asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 54.6 / 48
p0 9838 ± 8270
200
150
100
50
0
−50
−100
−150
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −268
Std Dev 287.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 49
Mean −0.01034
Std Dev 1.056
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

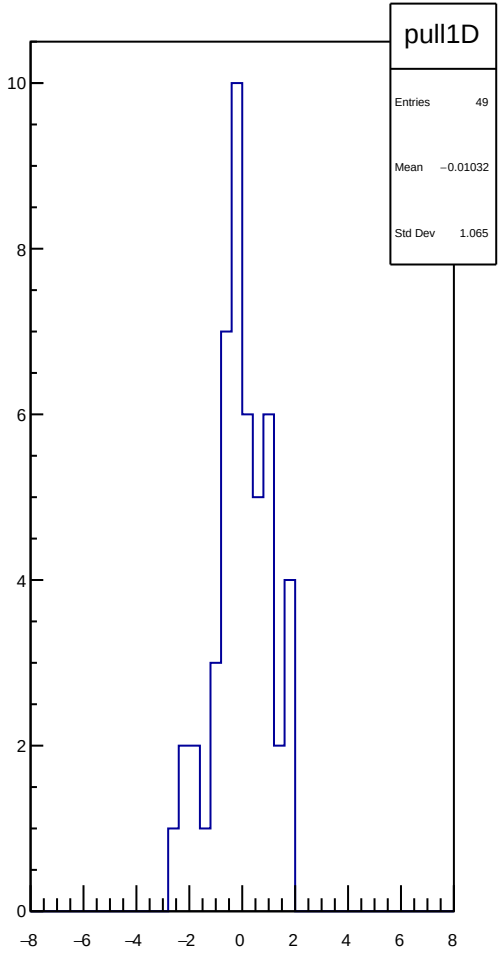

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 73.34 / 48
p0 5809 ± 5.848
5950
5900
5850
5800
5750
5700
5650
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

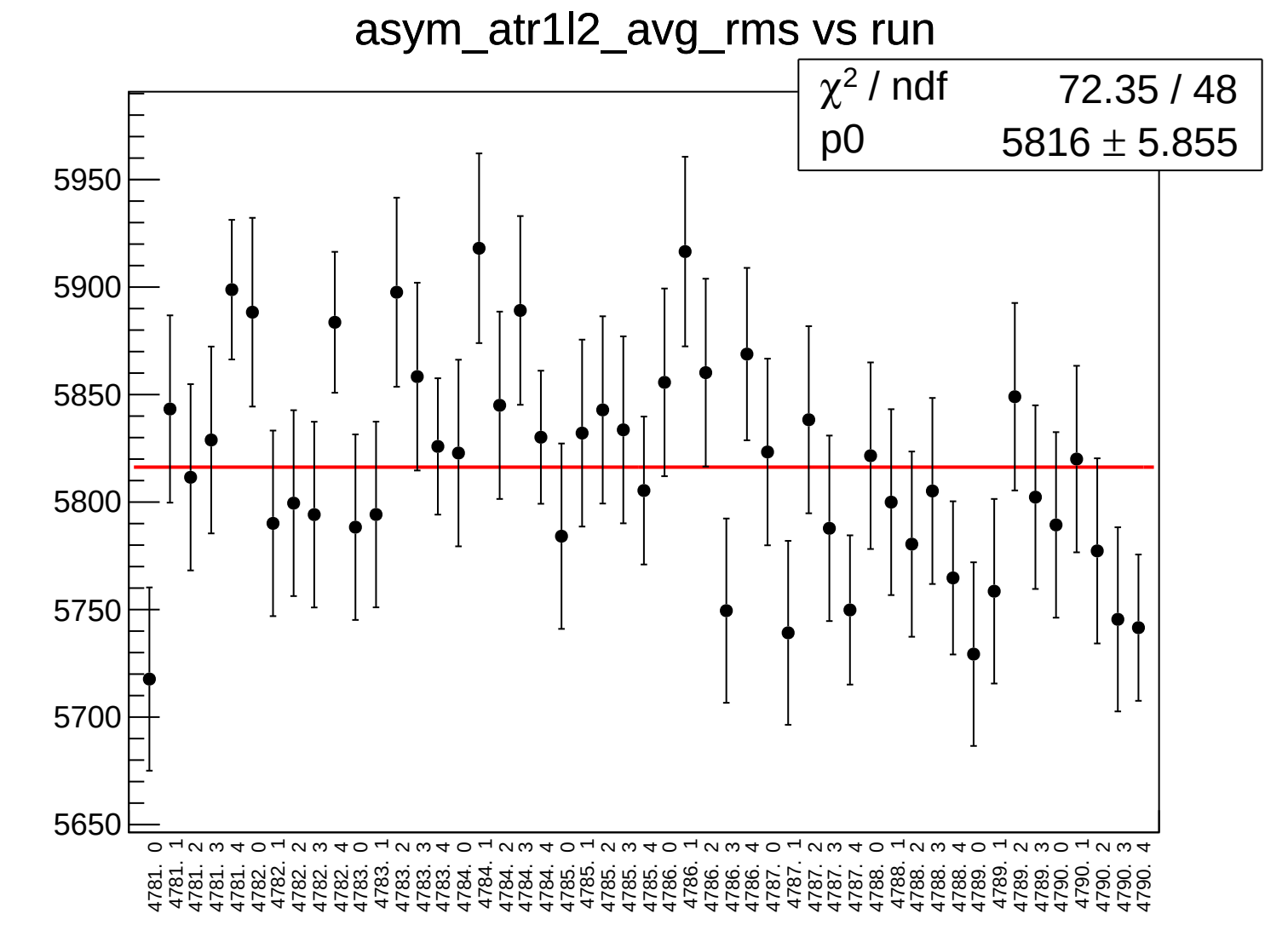

asym_atr1l2_avg_correction_mean vs run
χ² / ndf 37.84 / 48
p0 −1351 ± 361.7
10000
5000
0
−5000
−10000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −124.6
Std Dev 148.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

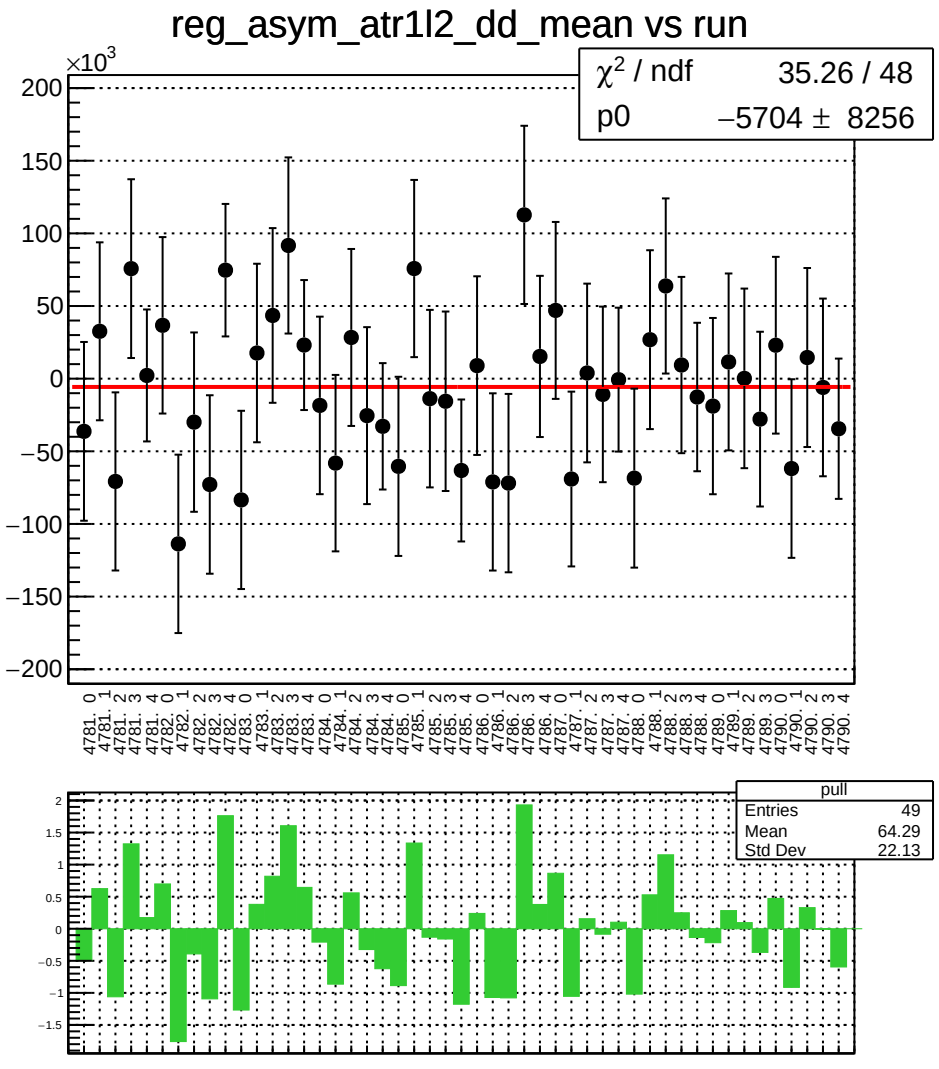

pull1D
Entries 49
Mean −0.02586
Std Dev 0.8784
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

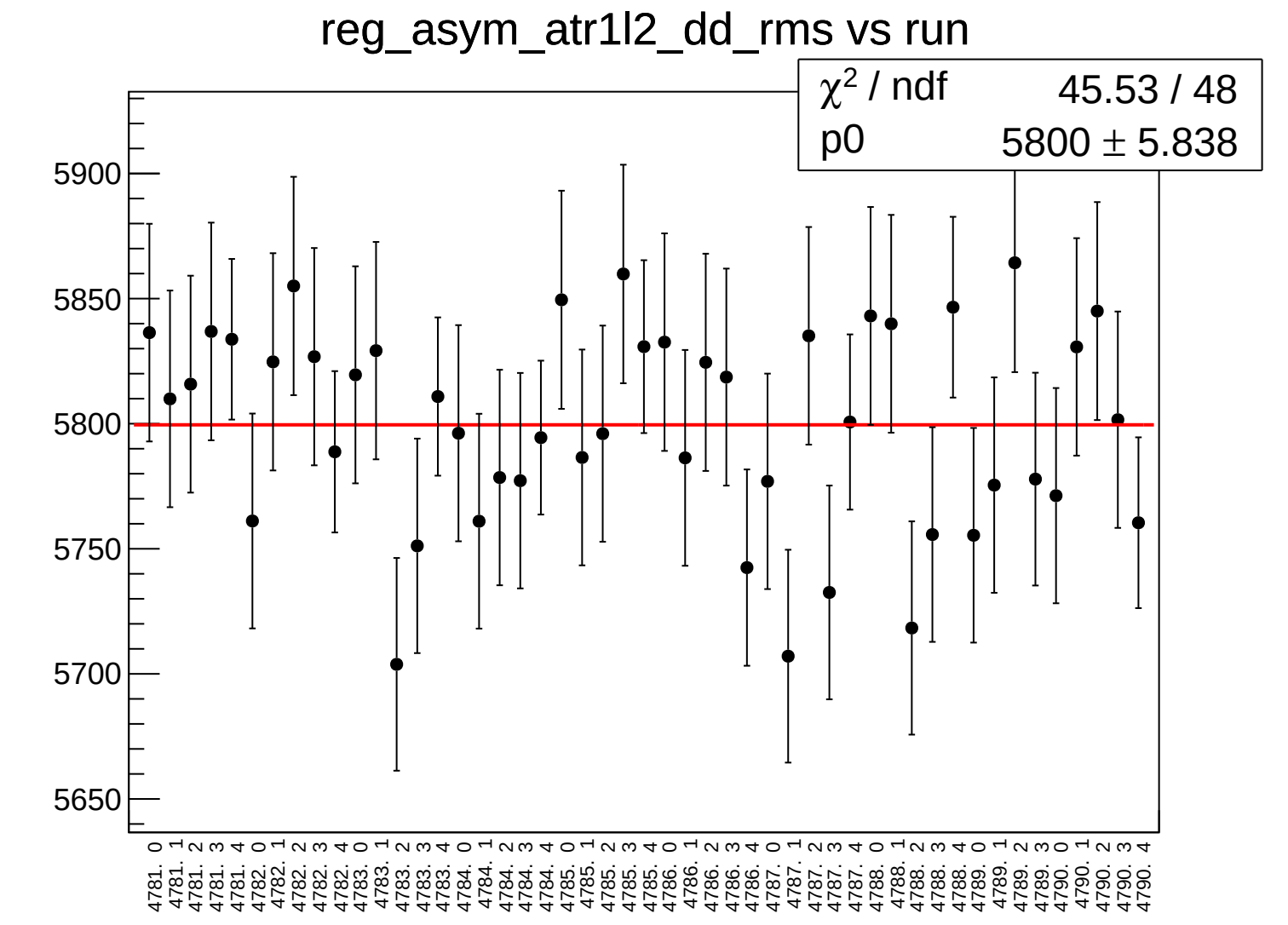

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 5.624e+04 / 48
p0 246.7 ± 0.2557
400
350
300
250
200
150
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

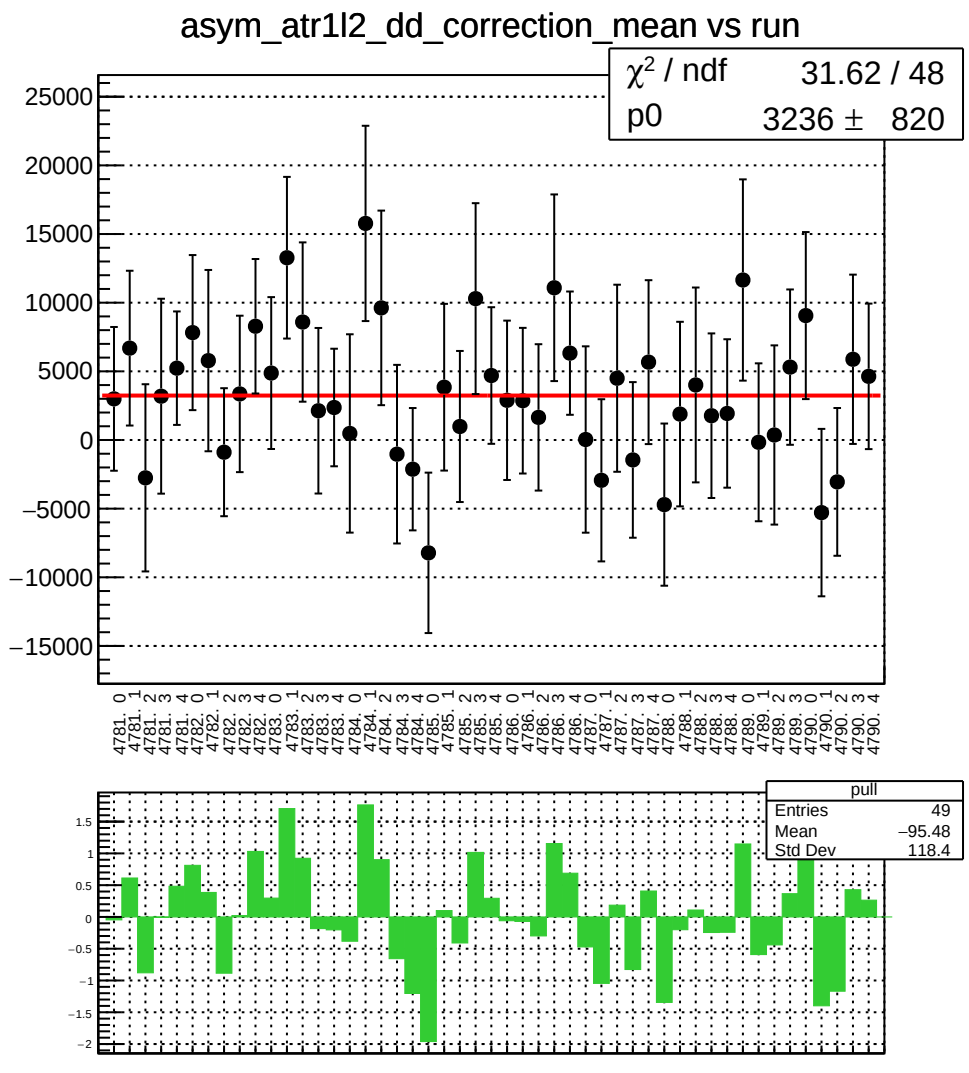

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 55.54 / 48
p0 1.13e+04 ± 8280
pull
Entries 49
Mean −248.8
Std Dev 267.9

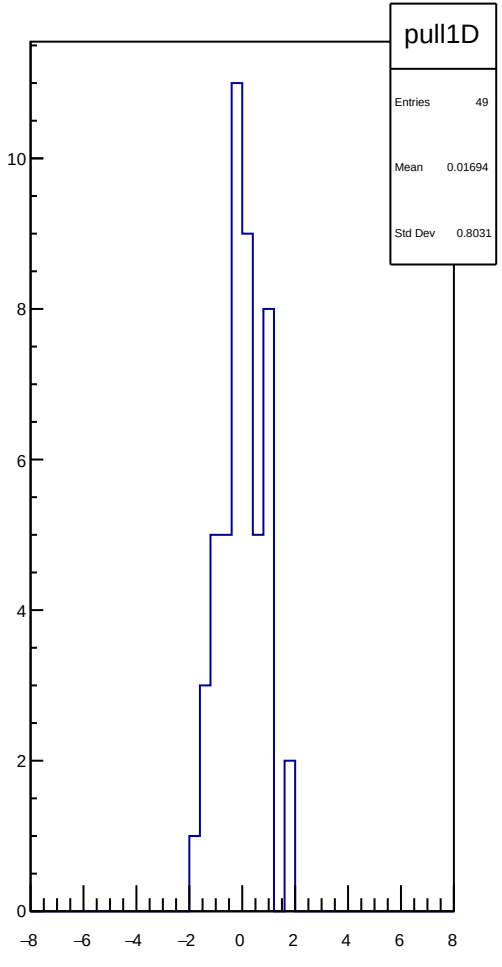

pull1D
Entries 49
Mean −0.01032
Std Dev 1.065

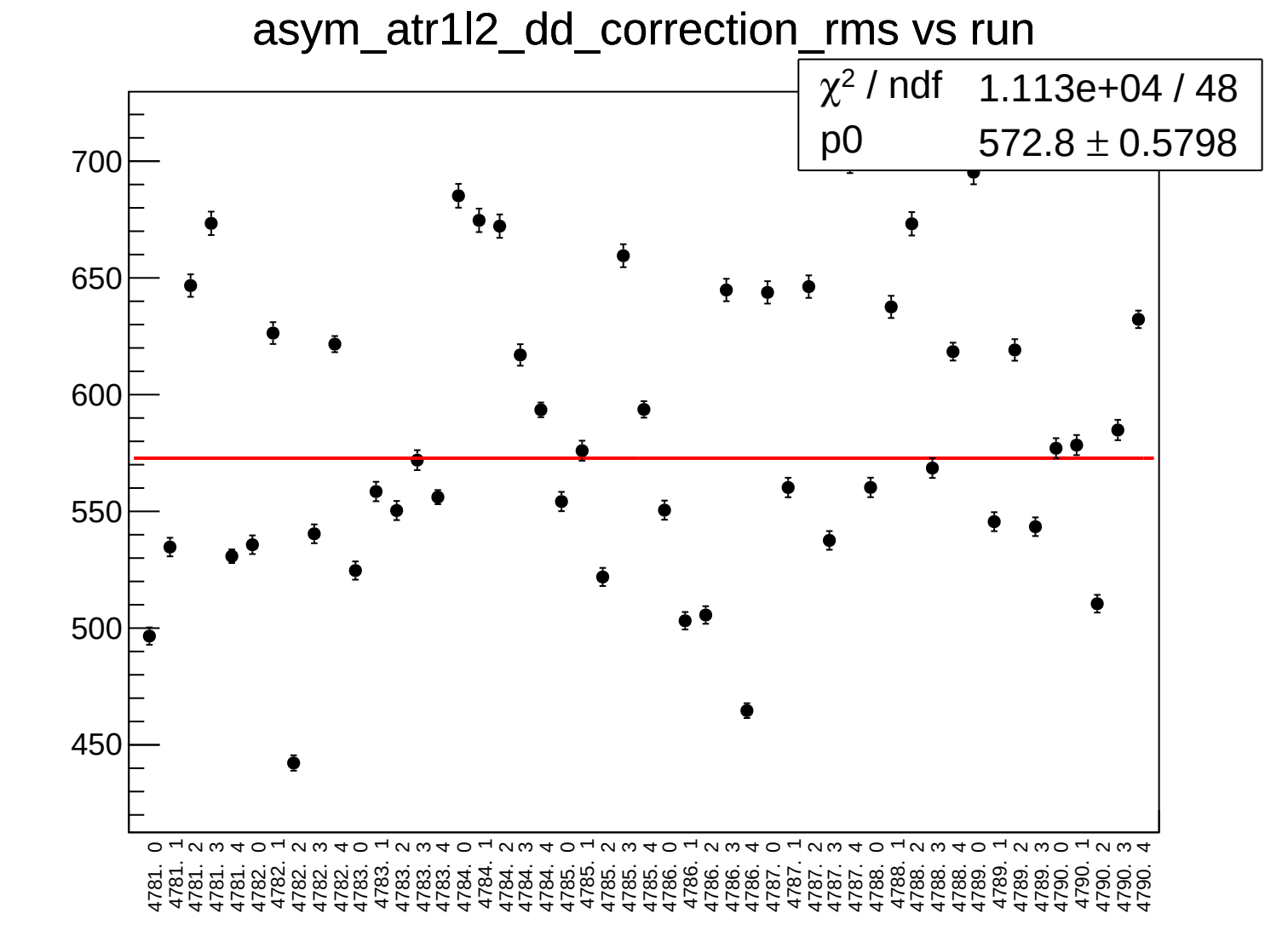

asym_atr1l2_avg_rms vs run
χ² / ndf 72.35 / 48
p0 5816 ± 5.855
5950
5900
5850
5800
5750
5700
5650
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

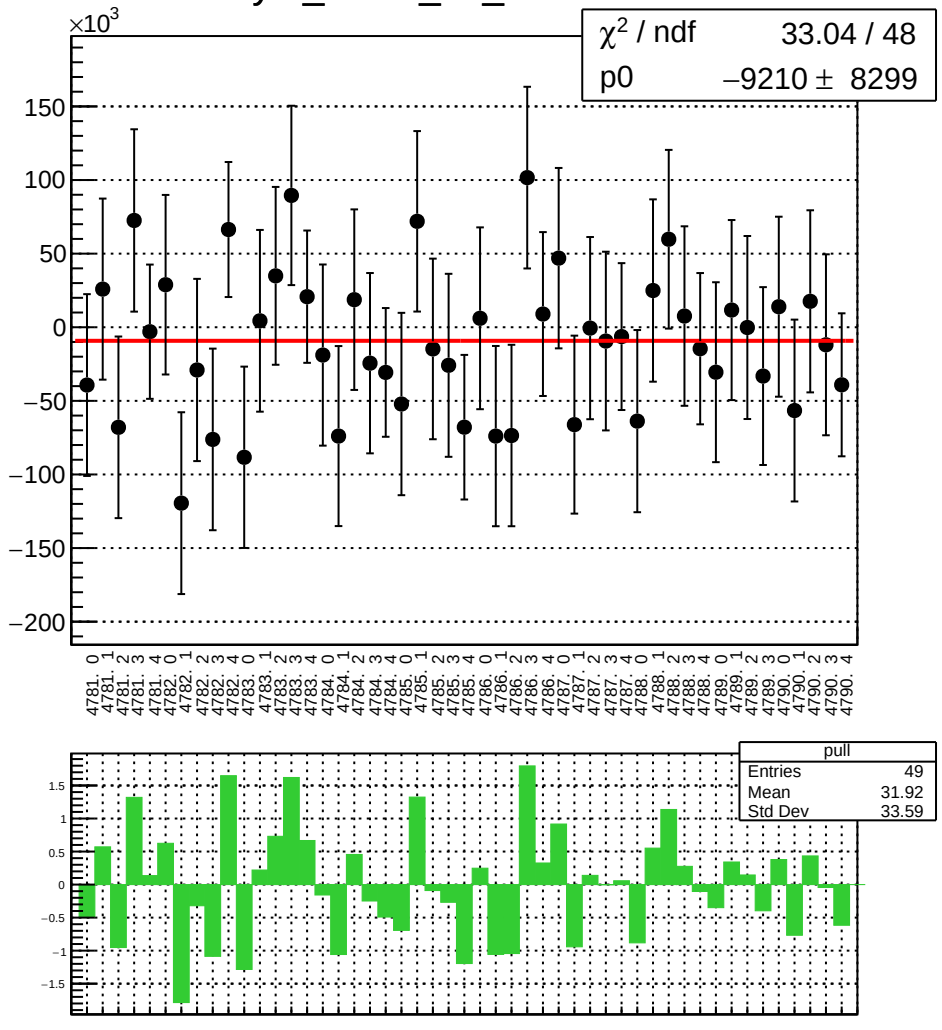

reg_asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 35.26 / 48
p0 −5704 ± 8256
200
150
100
50
0
−50
−100
−150
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 64.29
Std Dev 22.13
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 49
Mean −0.005677
Std Dev 0.8482
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

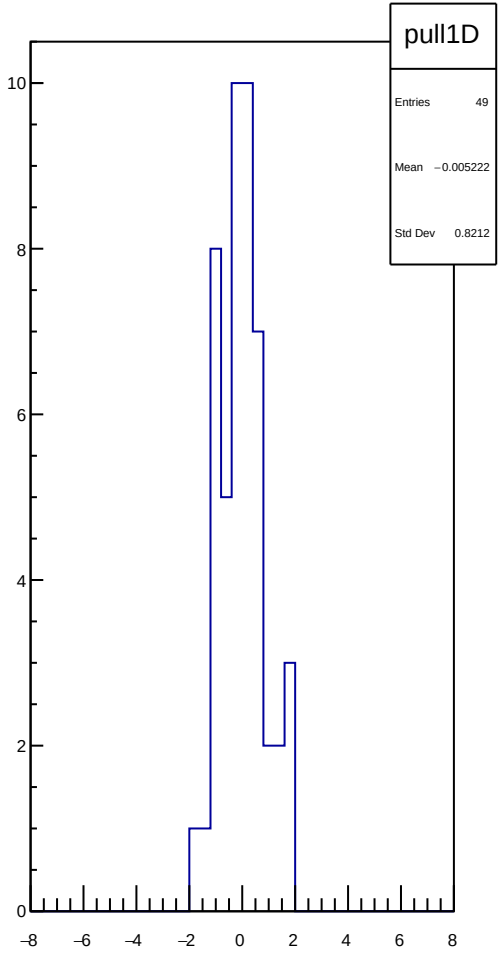

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 45.53 / 48
p0 5800 ± 5.838
5900
5850
5800
5750
5700
5650
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

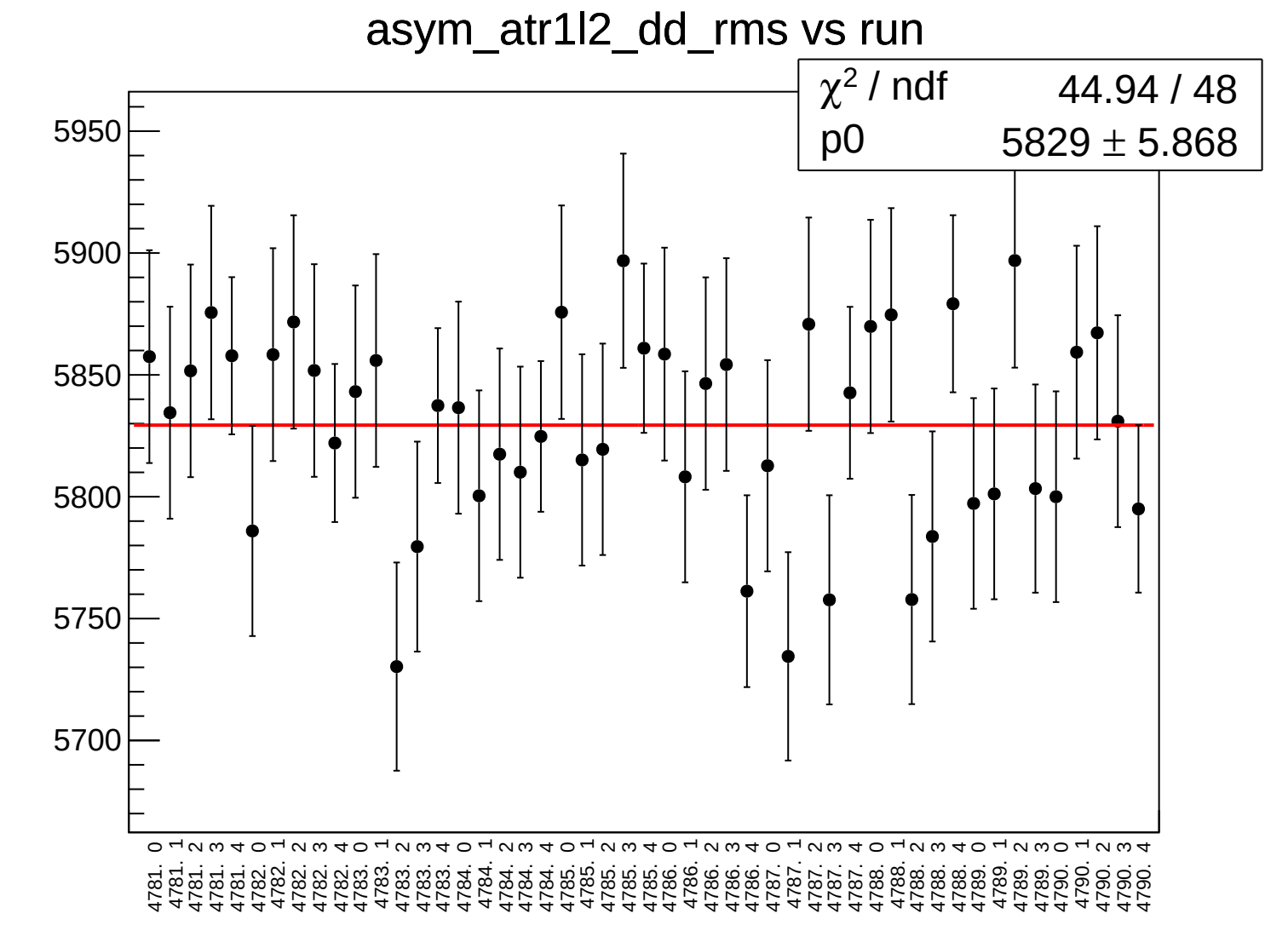

asym_atr1l2_dd_correction_mean vs run
χ² / ndf 31.62 / 48
p0 3236 ± 820
pull
Entries 49
Mean −95.48
Std Dev 118.4

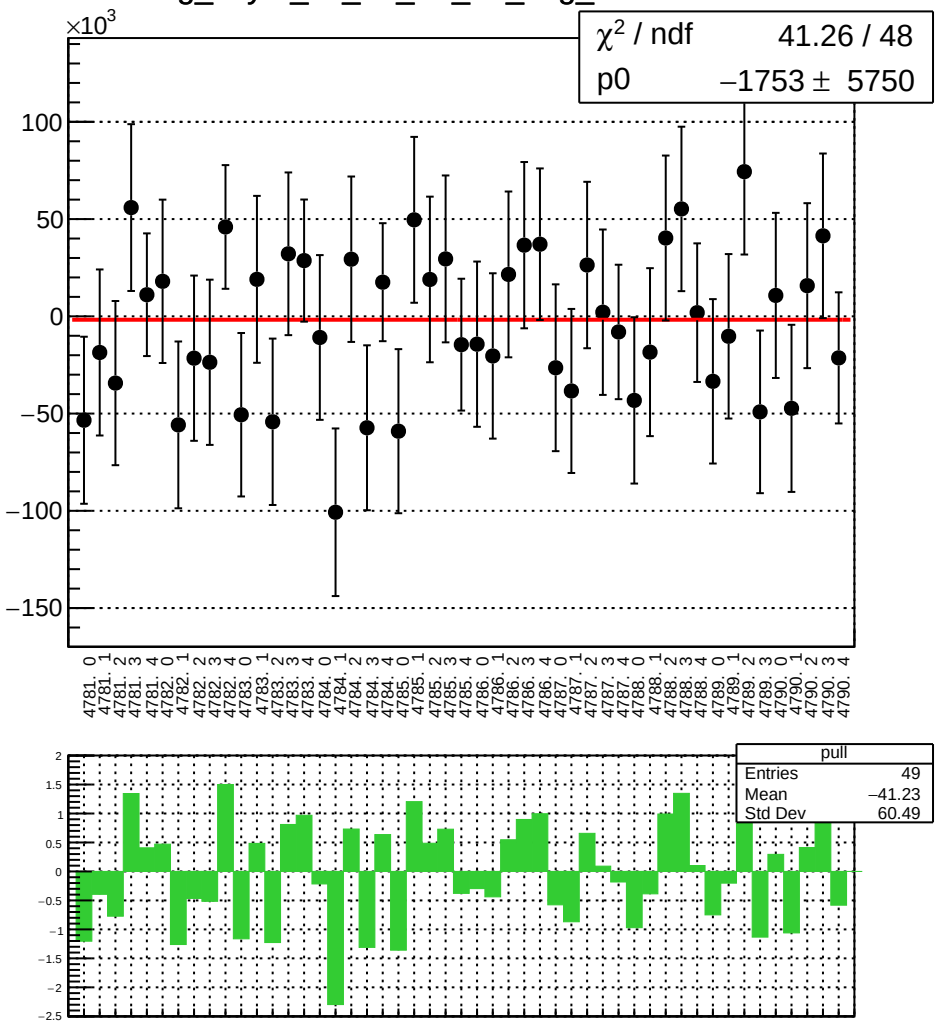

pull1D
Entries 49
Mean 0.01694
Std Dev 0.8031

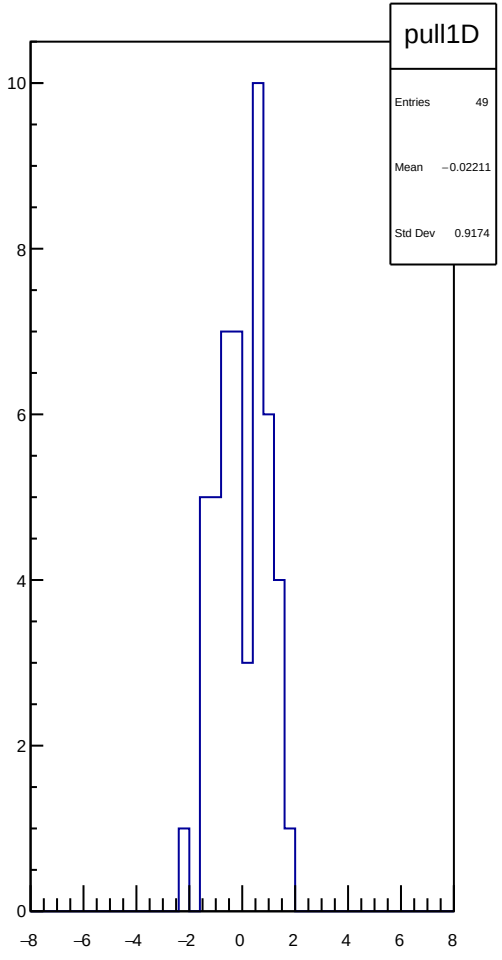

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 1.113e+04 / 48
p0 572.8 ± 0.5798
700
650
600
550
500
450
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

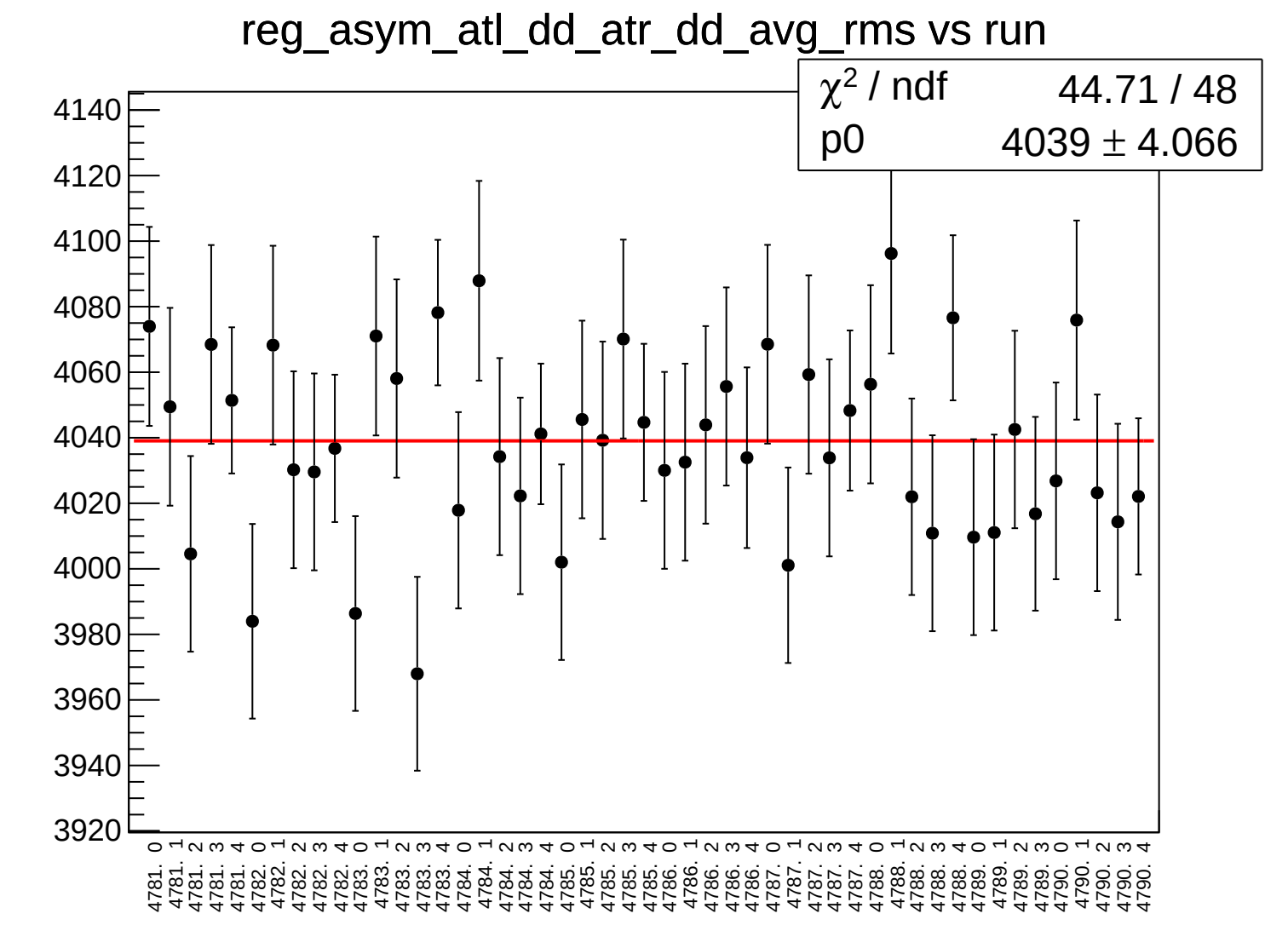

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 33.04 / 48
p0 −9210 ± 8299
150
100
50
0
−50
−100
−150
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 31.92
Std Dev 33.59
1.5
1
0.5
0
−0.5
−1
−1.5

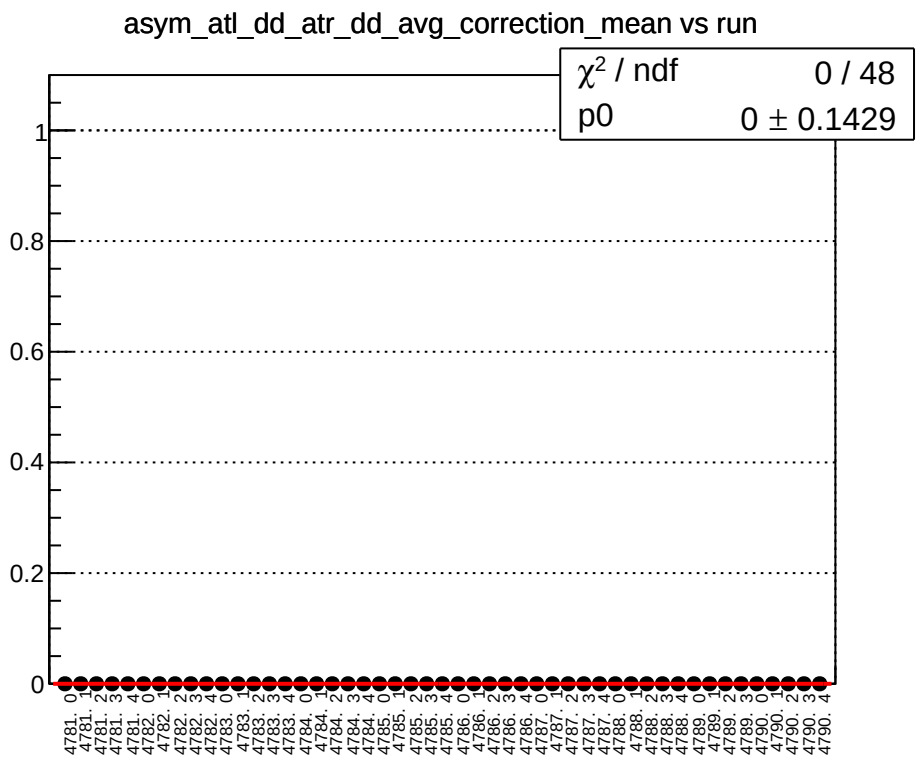

pull1D
Entries 49
Mean −0.005222
Std Dev 0.8212
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

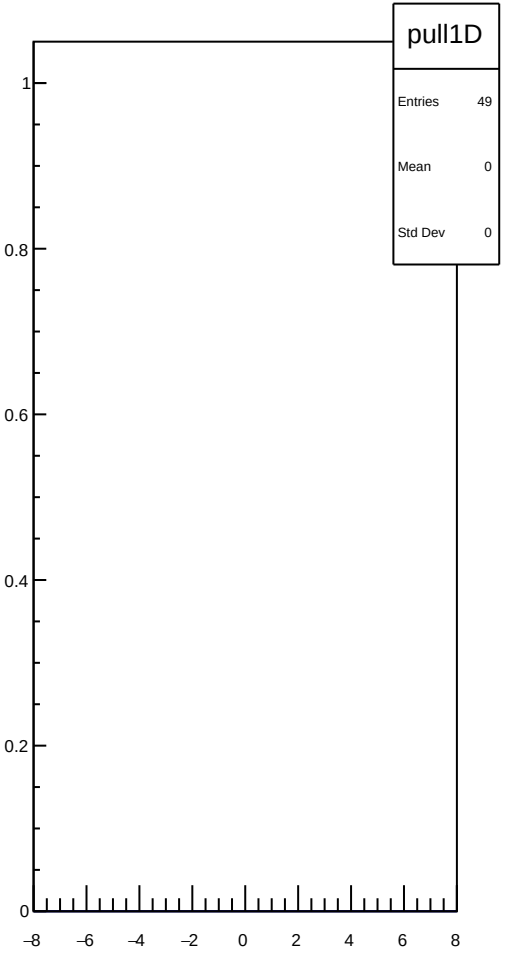

asym_atr1l2_dd_rms vs run
χ^2 / ndf 44.94 / 48
p0 5829 ± 5.868
5950
5900
5850
5800
5750
5700
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

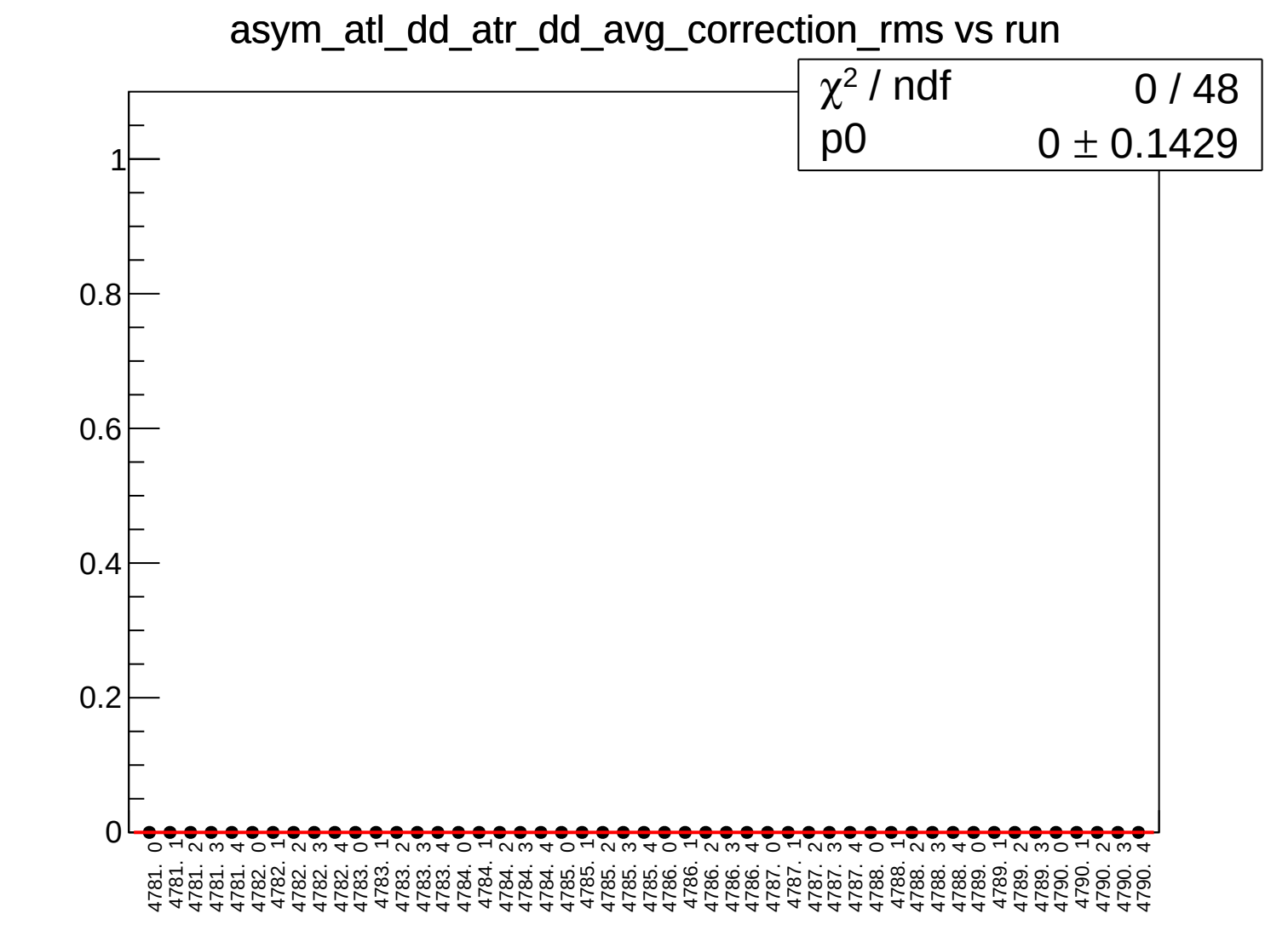

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ^2 / ndf 41.26 / 48
p0 −1753 ± 5750
100
50
0
−50
−100
−150
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −41.23
Std Dev 60.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

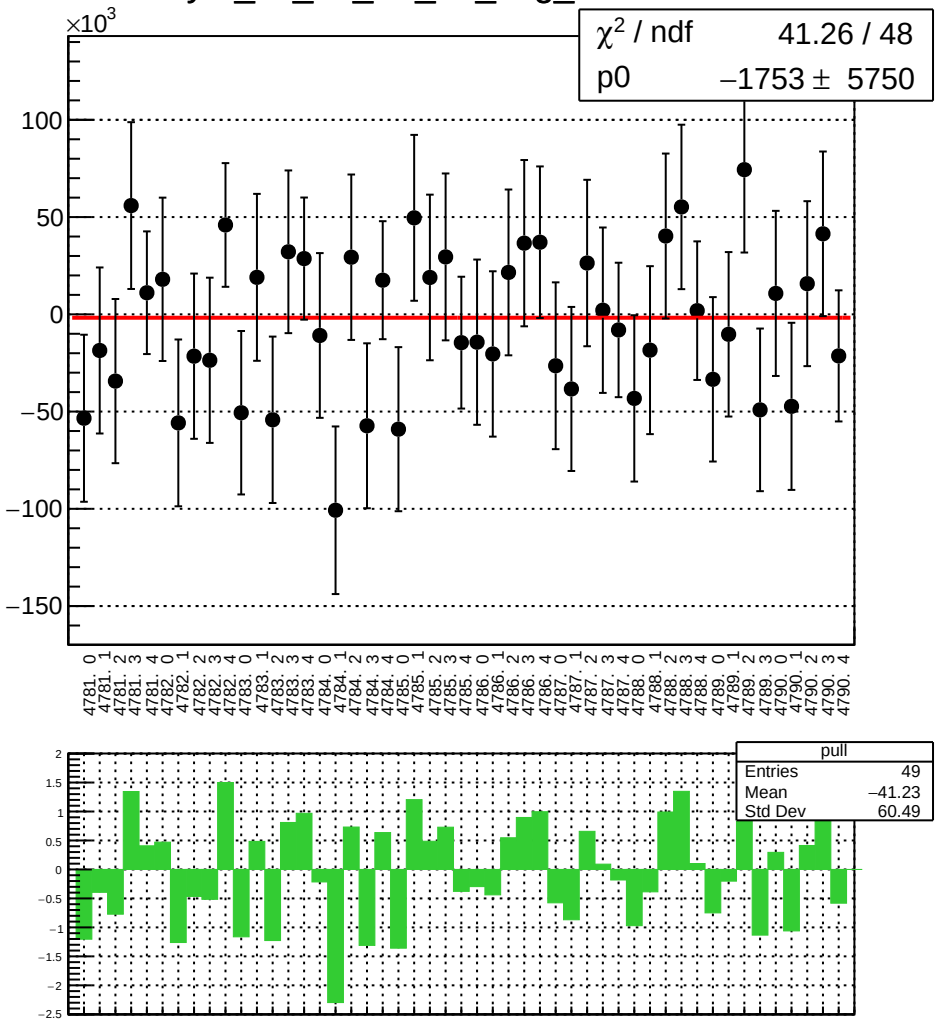

pull1D
Entries 49
Mean −0.02211
Std Dev 0.9174
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

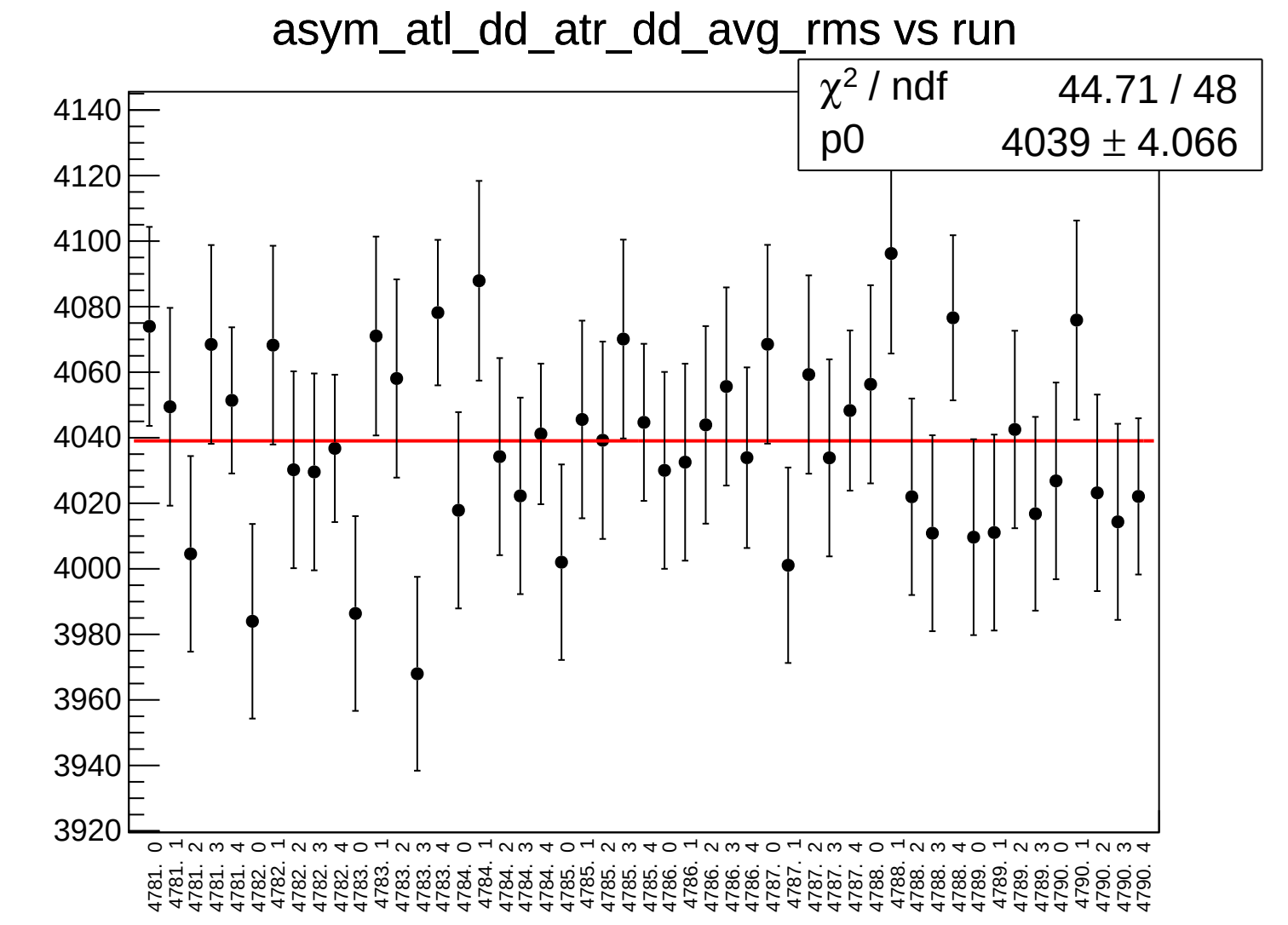

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 44.71 / 48
p0 4039 ± 4.066
4140
4120
4100
4080
4060
4040
4020
4000
3980
3960
3940
3920
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

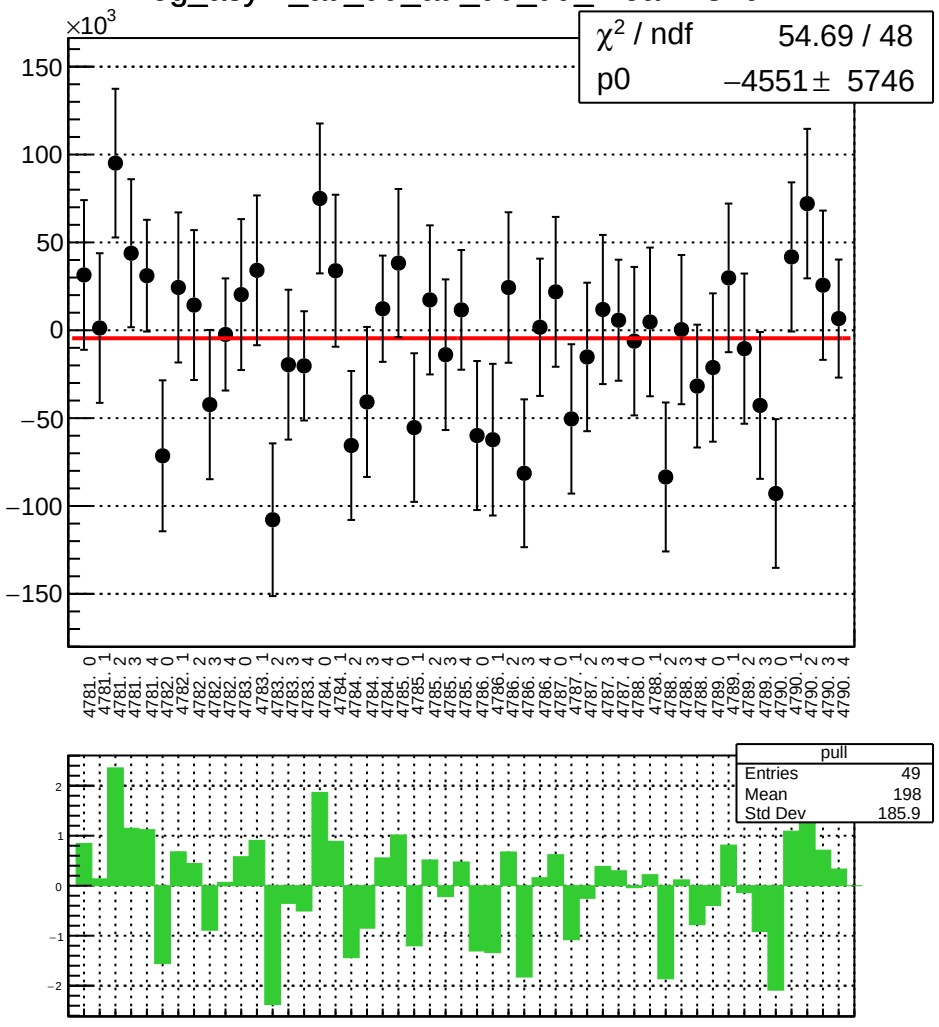

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 48
p0 0 ± 0.1429
1
0.8
0.6
0.4
0.2
0
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

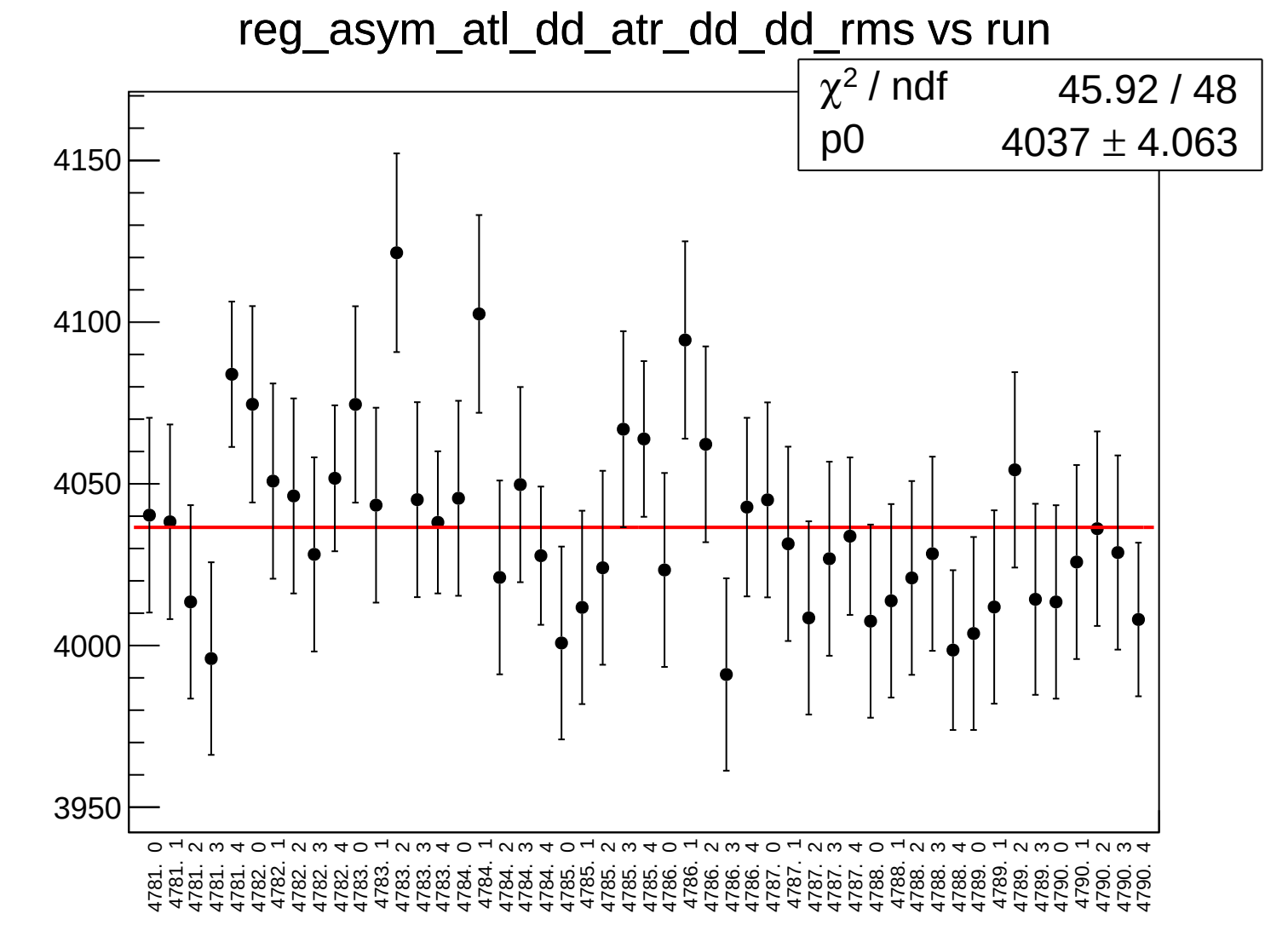

pull1D
Entries 49
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

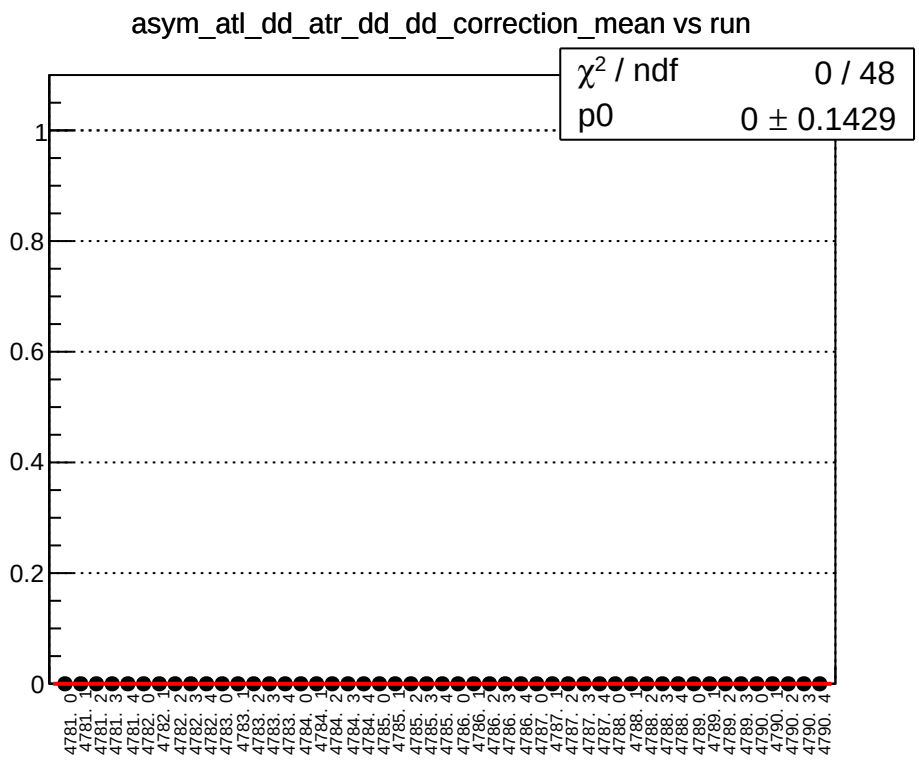

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 48
p0 0 ± 0.1429
1
0.8
0.6
0.4
0.2
0
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 41.26 / 48
p0 −1753 ± 5750
100
50
0
−50
−100
−150
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −41.23
Std Dev 60.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 49
Mean −0.02211
Std Dev 0.9174
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 44.71 / 48
p0 4039 ± 4.066
4140
4120
4100
4080
4060
4040
4020
4000
3980
3960
3940
3920
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


reg_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 54.69 / 48
p0 −4551 ± 5746
150
100
50
0
−50
−100
−150
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 198
Std Dev 185.9
2
1
0
−1
−2
pull1D
Entries 49
Mean −0.01189
Std Dev 1.056
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 45.92 / 48
p0 4037 ± 4.063
4150
4100
4050
4000
3950
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 48
p0 0 ± 0.1429
1
0.8
0.6
0.4
0.2
0
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
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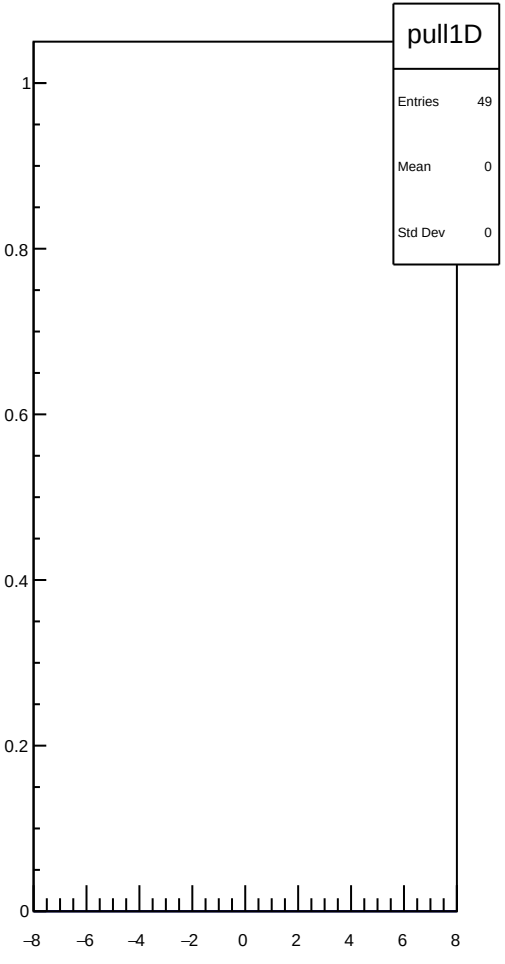
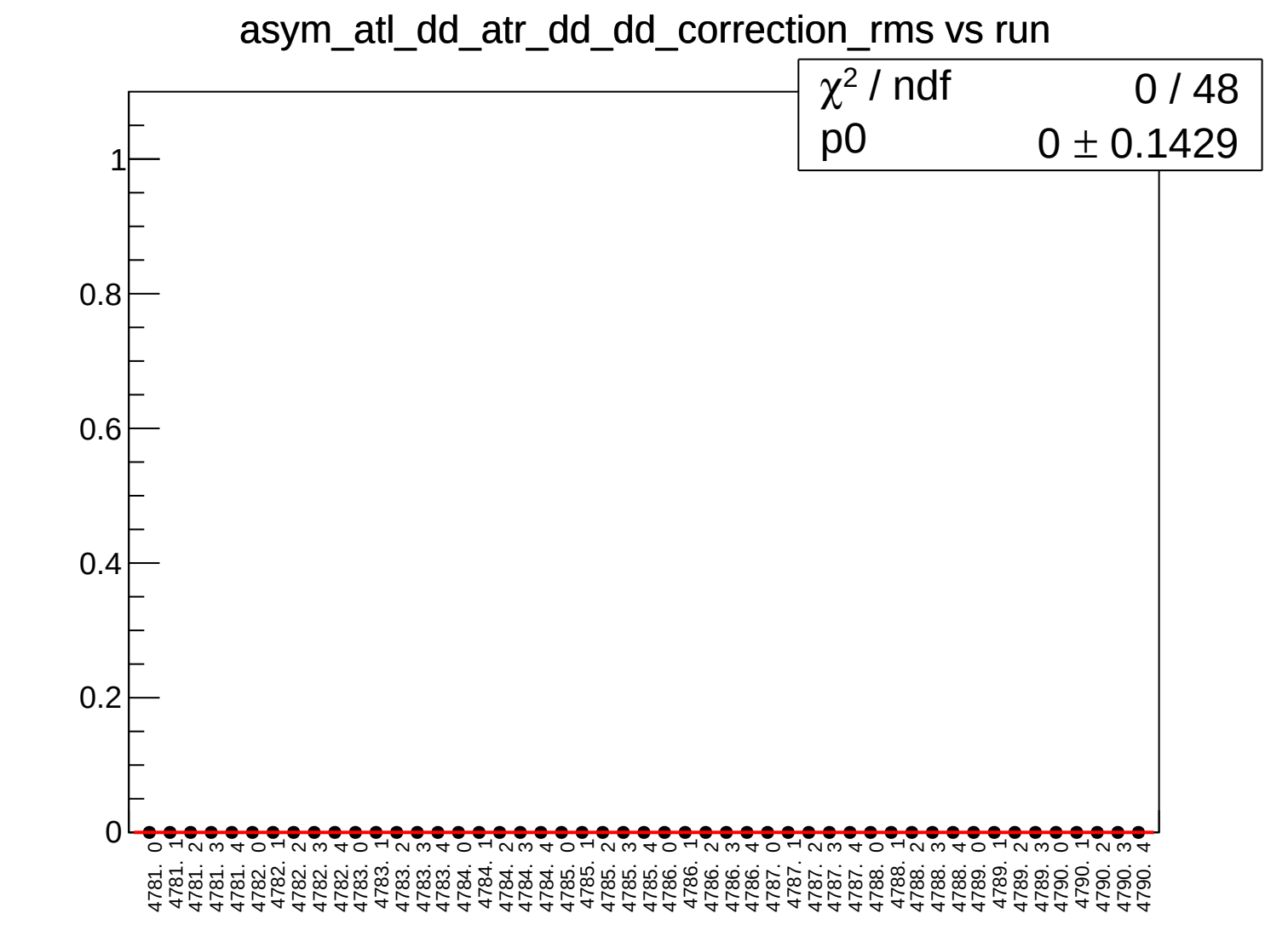
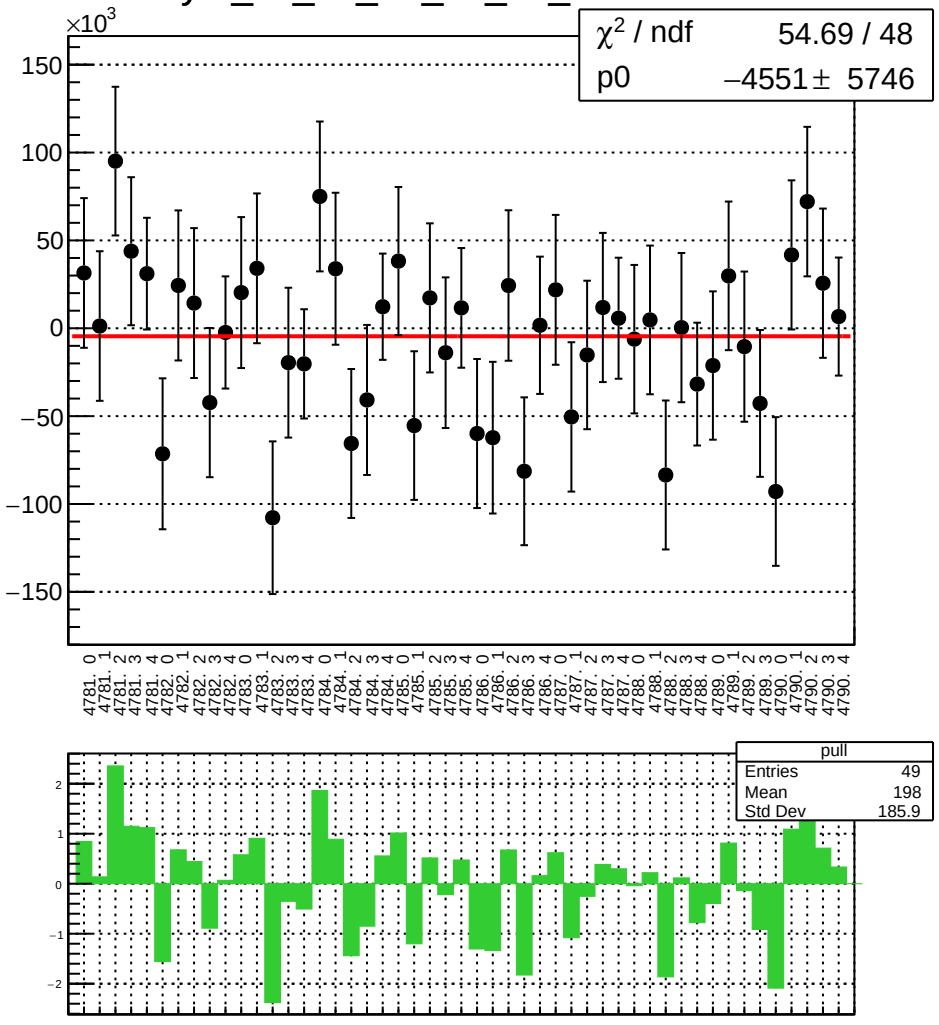
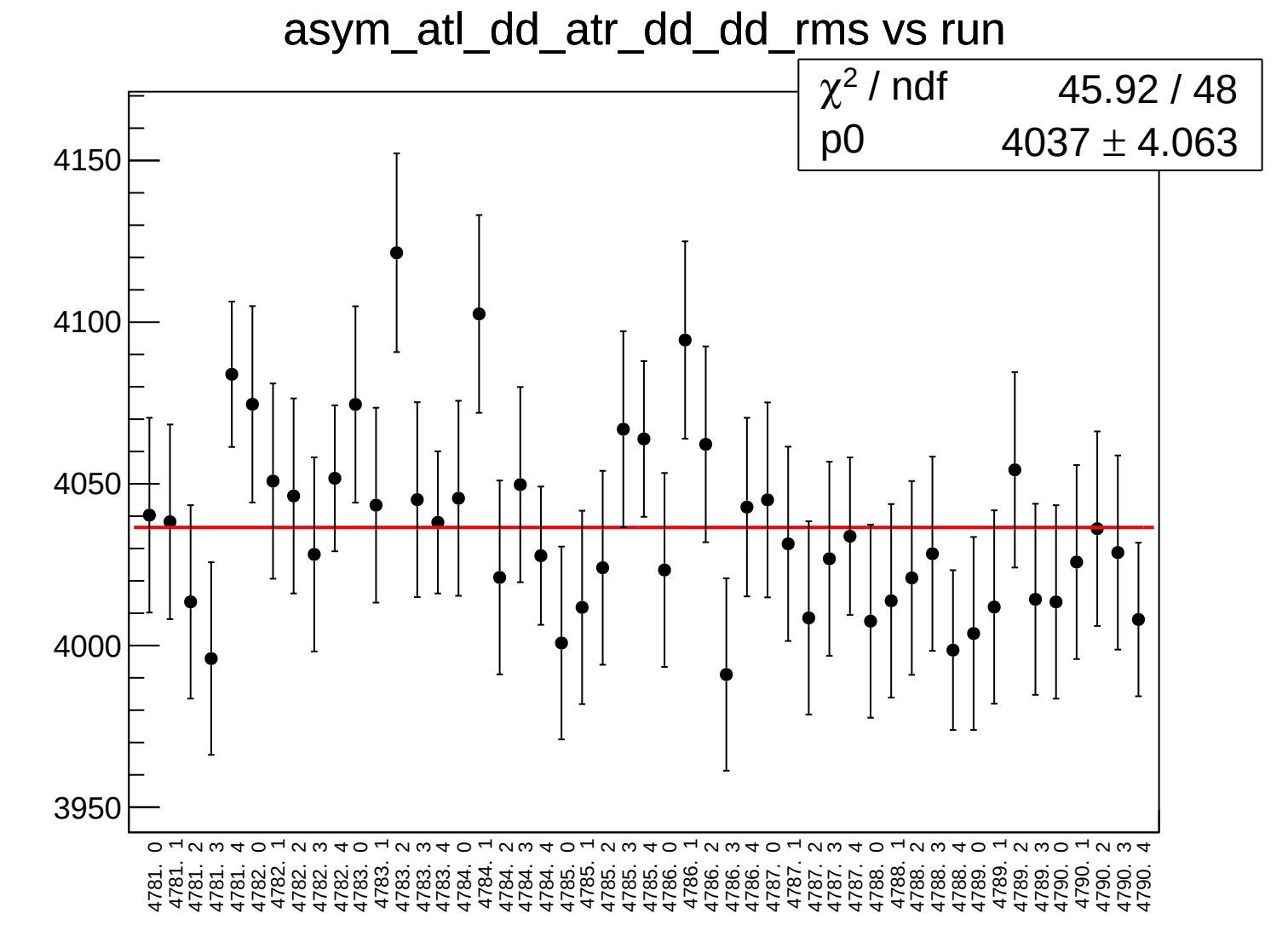
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


pull1D
Entries 49
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 / 48
p0 0 ± 0.1429
1
0.8
0.6
0.4
0.2
0
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 54.69 / 48
p0 −4551 ± 5746
150
100
50
0
−50
−100
−150
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 198
Std Dev 185.9
2
1
0
−1
−2
pull1D
Entries 49
Mean −0.01189
Std Dev 1.056
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 45.92 / 48
p0 4037 ± 4.063
4150
4100
4050
4000
3950
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
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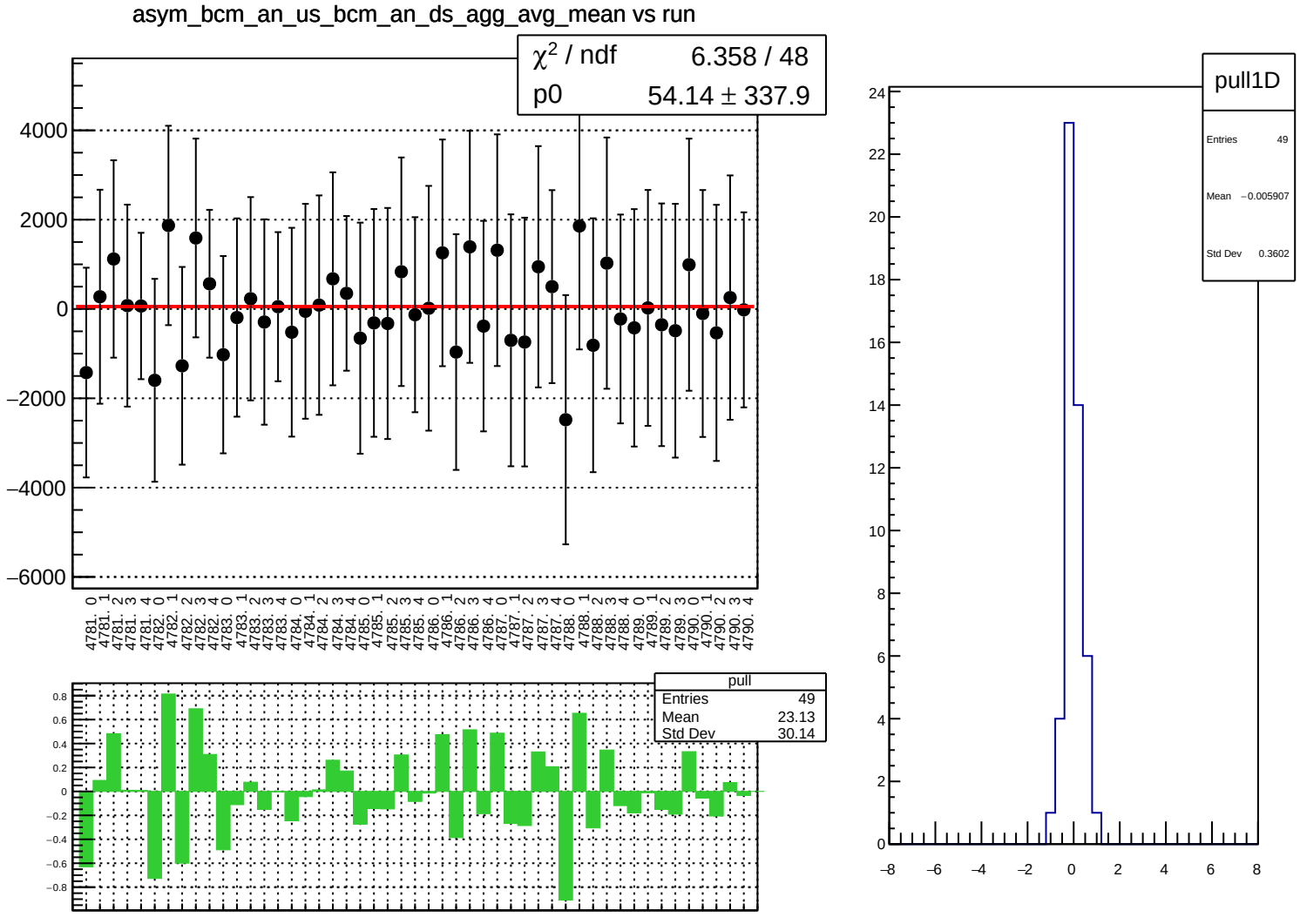
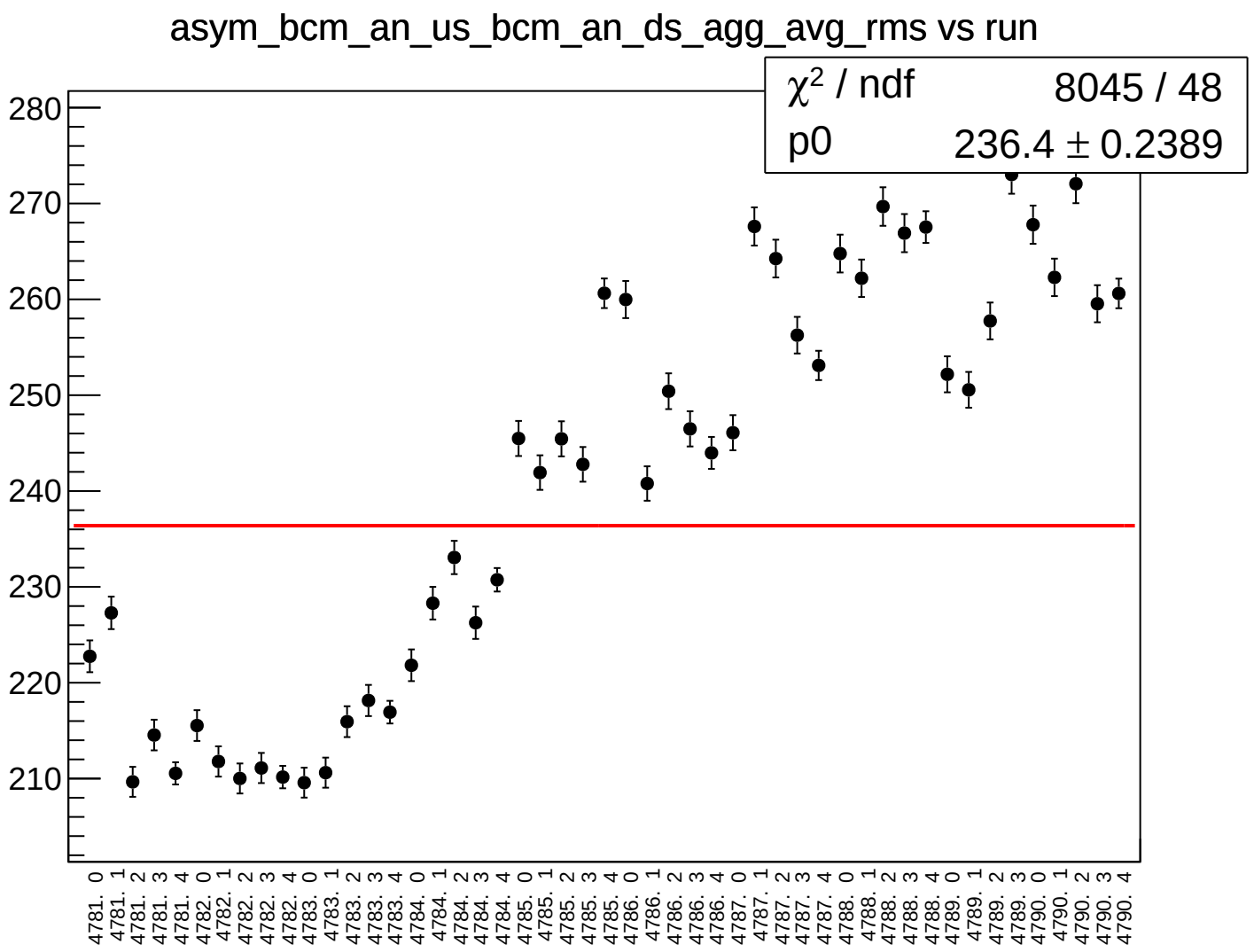
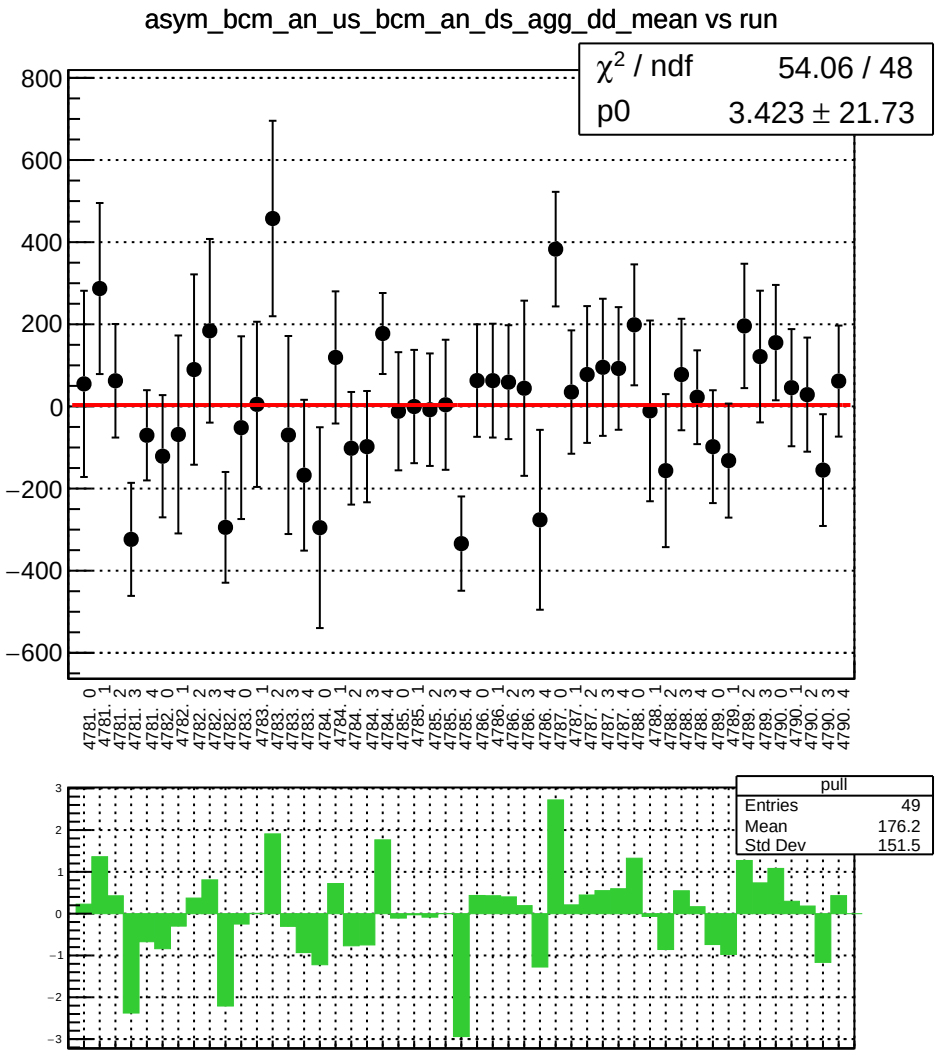
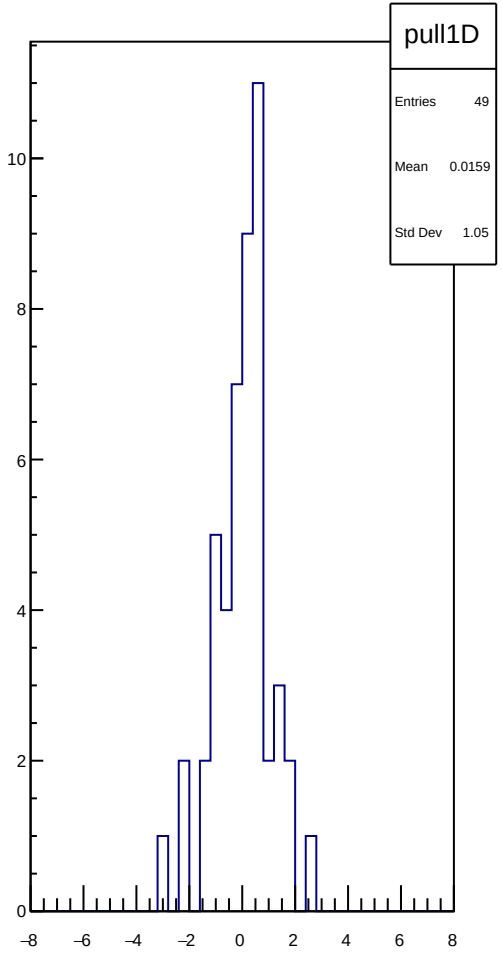
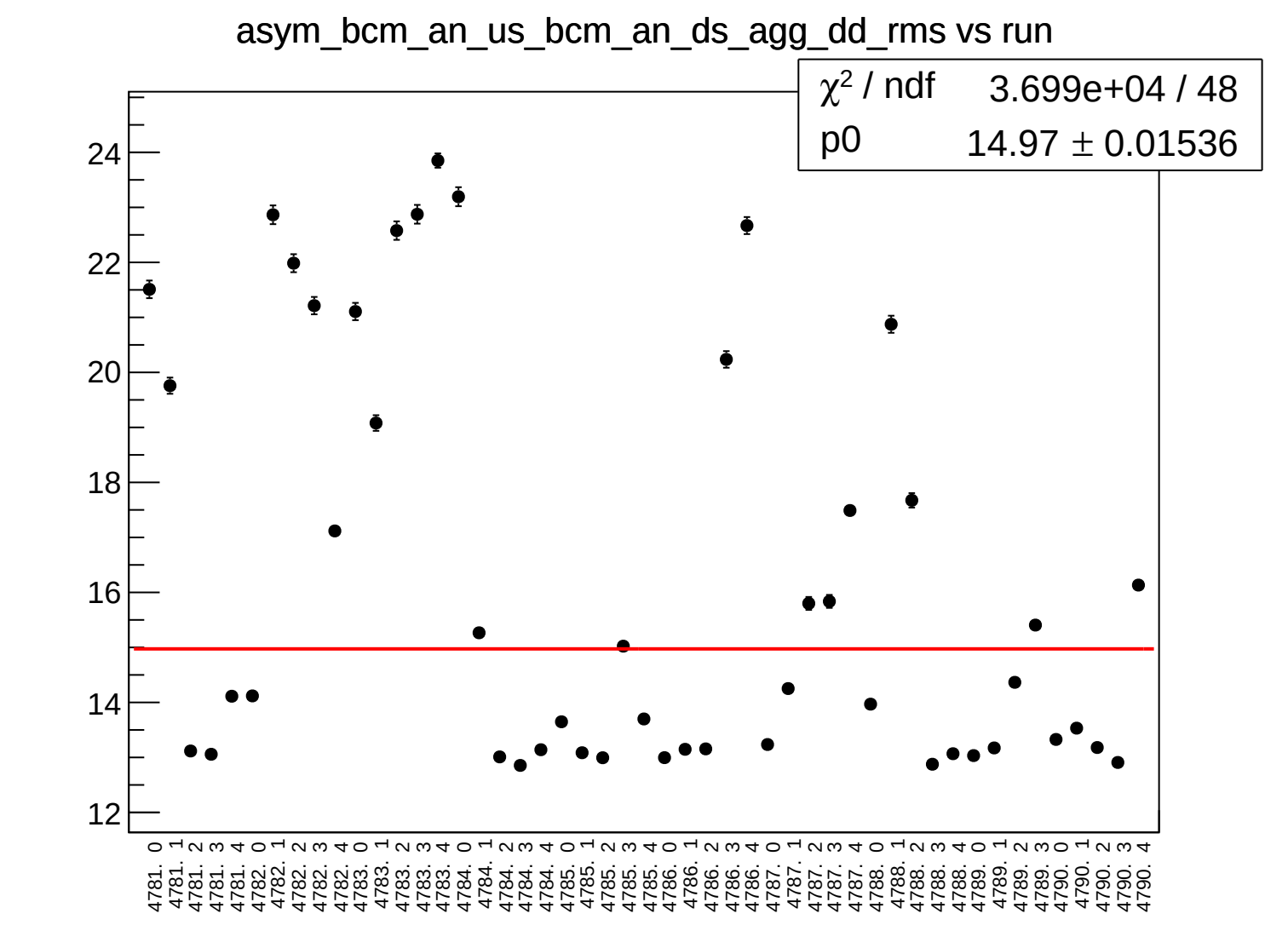
4790. 3
4790. 4

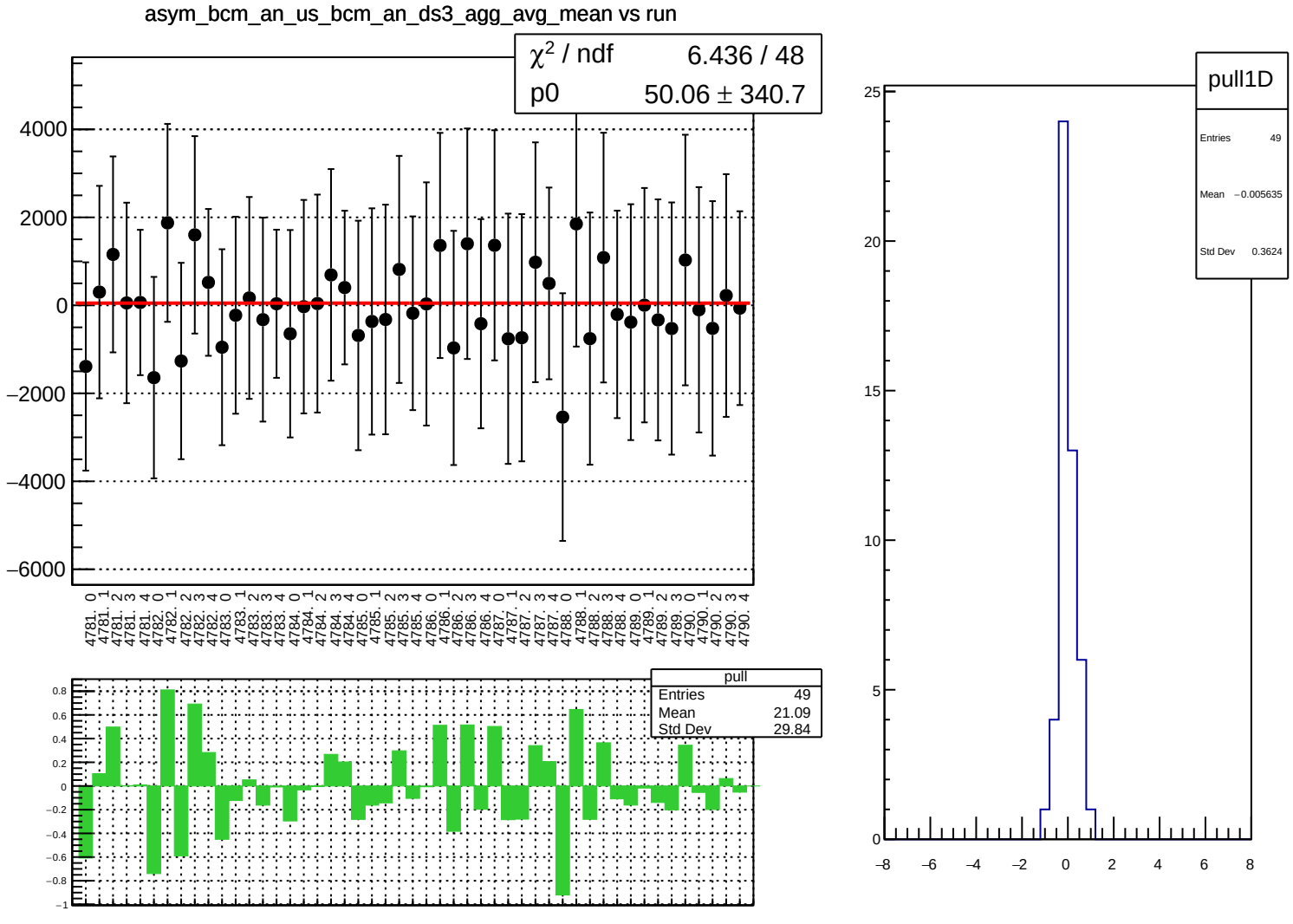

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 6.358 / 48
p0 54.14 ± 337.9
4000
2000
0
−2000
−4000
−6000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 23.13
Std Dev 30.14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 49
Mean −0.005907
Std Dev 0.3602
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

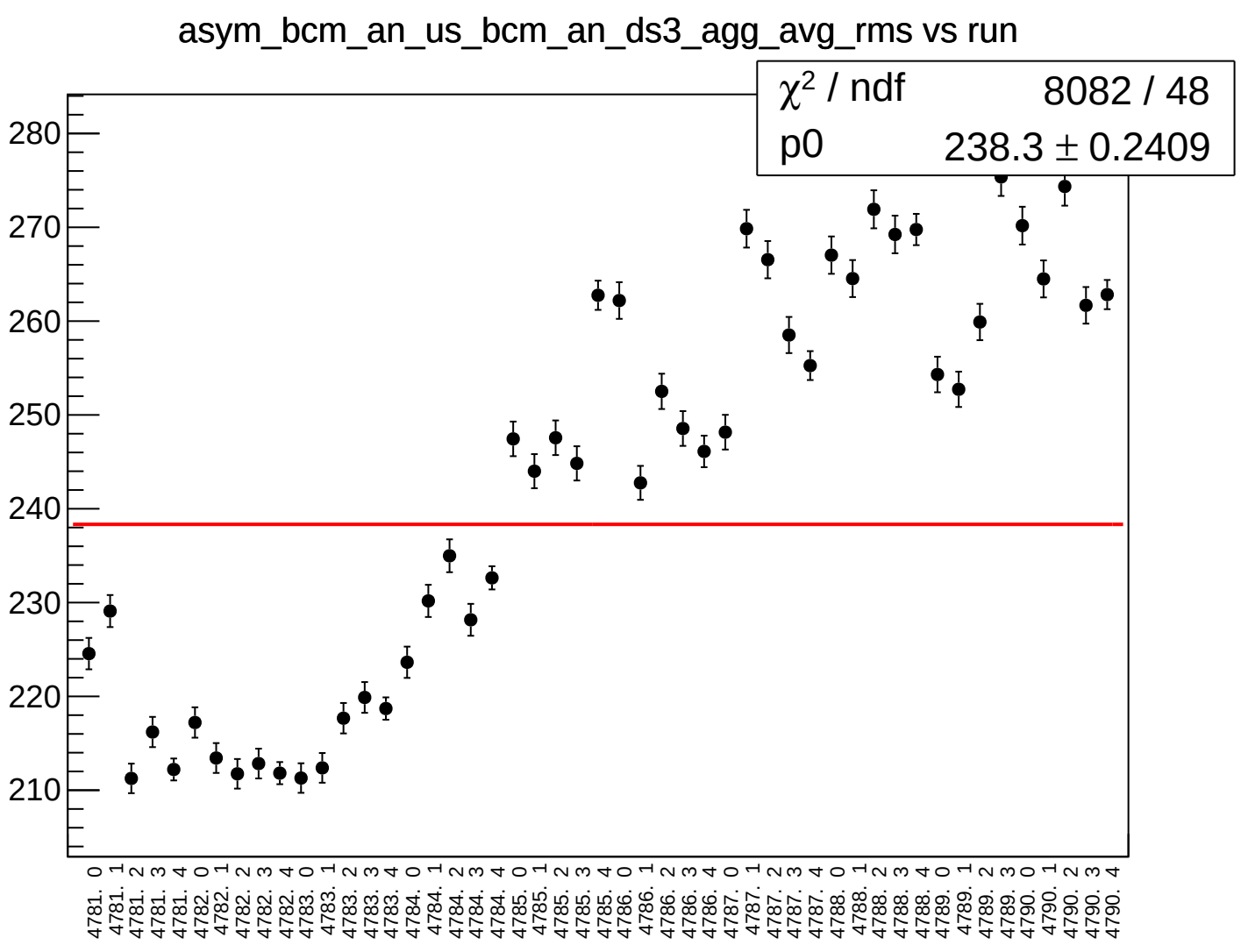

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 8045 / 48
p0 236.4 ± 0.2389
280
270
260
250
240
230
220
210
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

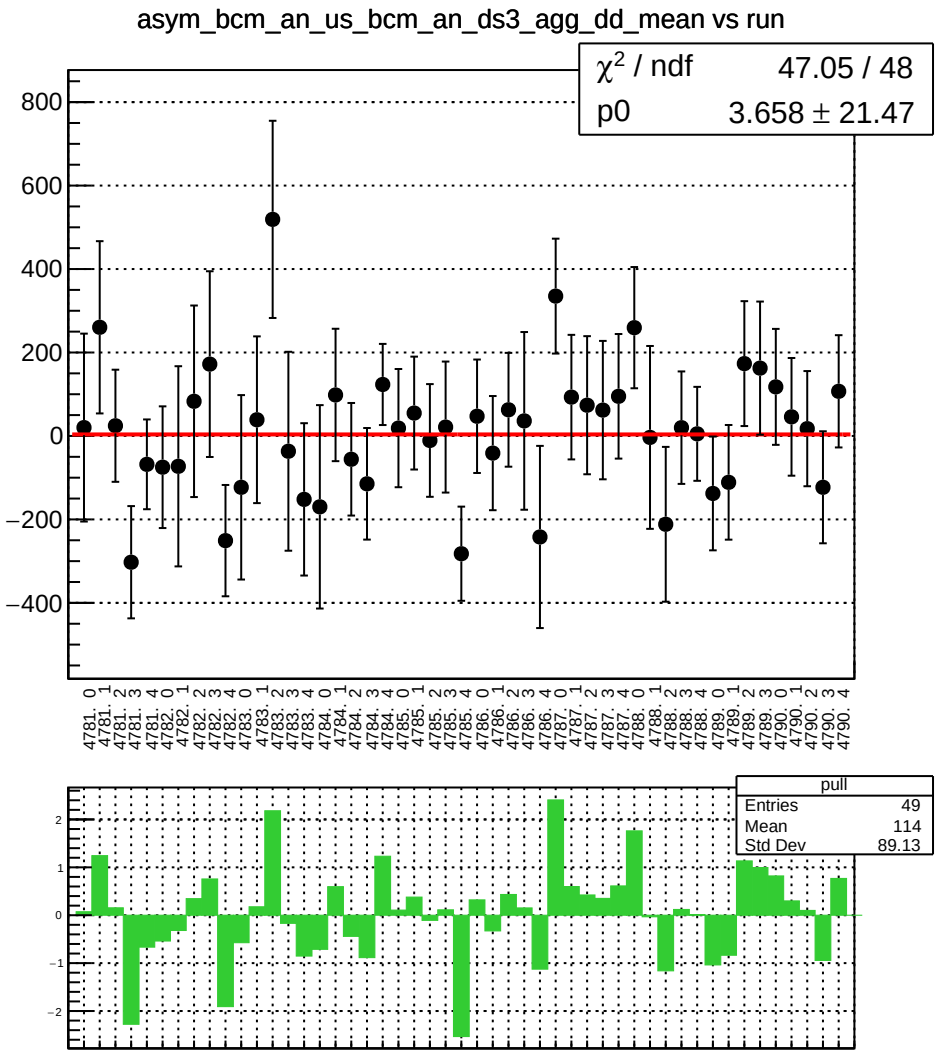

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 54.06 / 48
p0 3.423 ± 21.73
pull
Entries 49
Mean 176.2
Std Dev 151.5

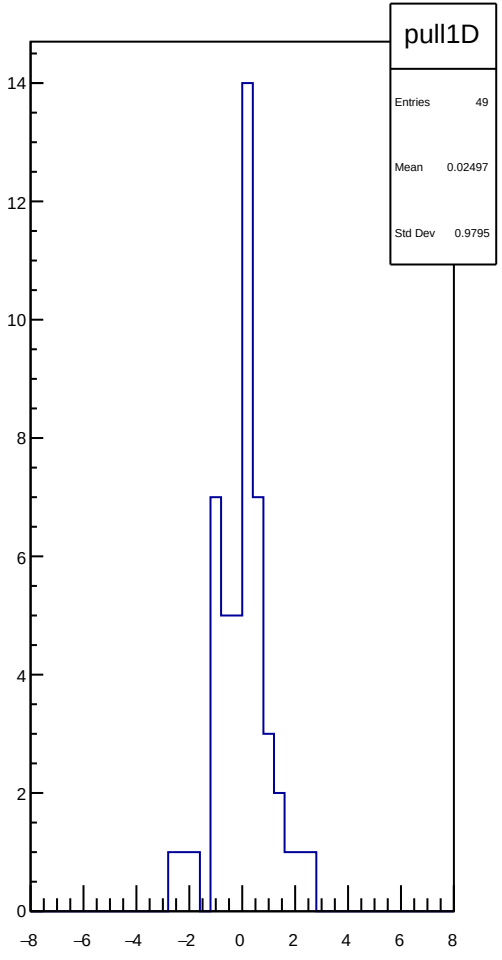

pull1D
Entries 49
Mean 0.0159
Std Dev 1.05

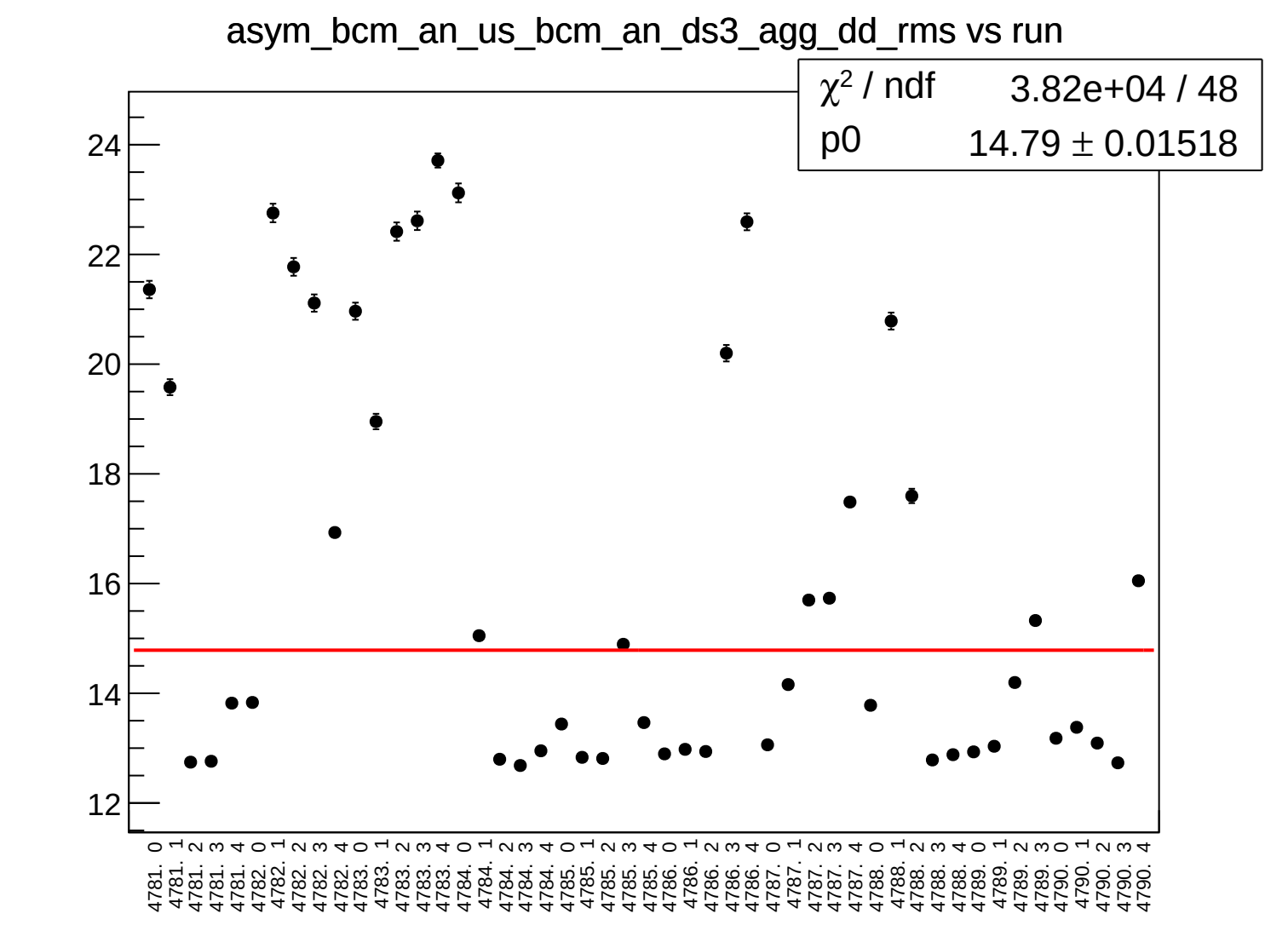

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3.699e+04 / 48
p0 14.97 ± 0.01536
24
22
20
18
16
14
12
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 6.436 / 48
p0 50.06 ± 340.7
4000
2000
0
−2000
−4000
−6000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 21.09
Std Dev 29.84
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 49
Mean −0.005635
Std Dev 0.3624
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 8082 / 48
p0 238.3 ± 0.2409
280
270
260
250
240
230
220
210
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 47.05 / 48
p0 3.658 ± 21.47
pull
Entries 49
Mean 114
Std Dev 89.13


pull1D
Entries 49
Mean 0.02497
Std Dev 0.9795


asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 3.82e+04 / 48
p0 14.79 ± 0.01518
24
22
20
18
16
14
12
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
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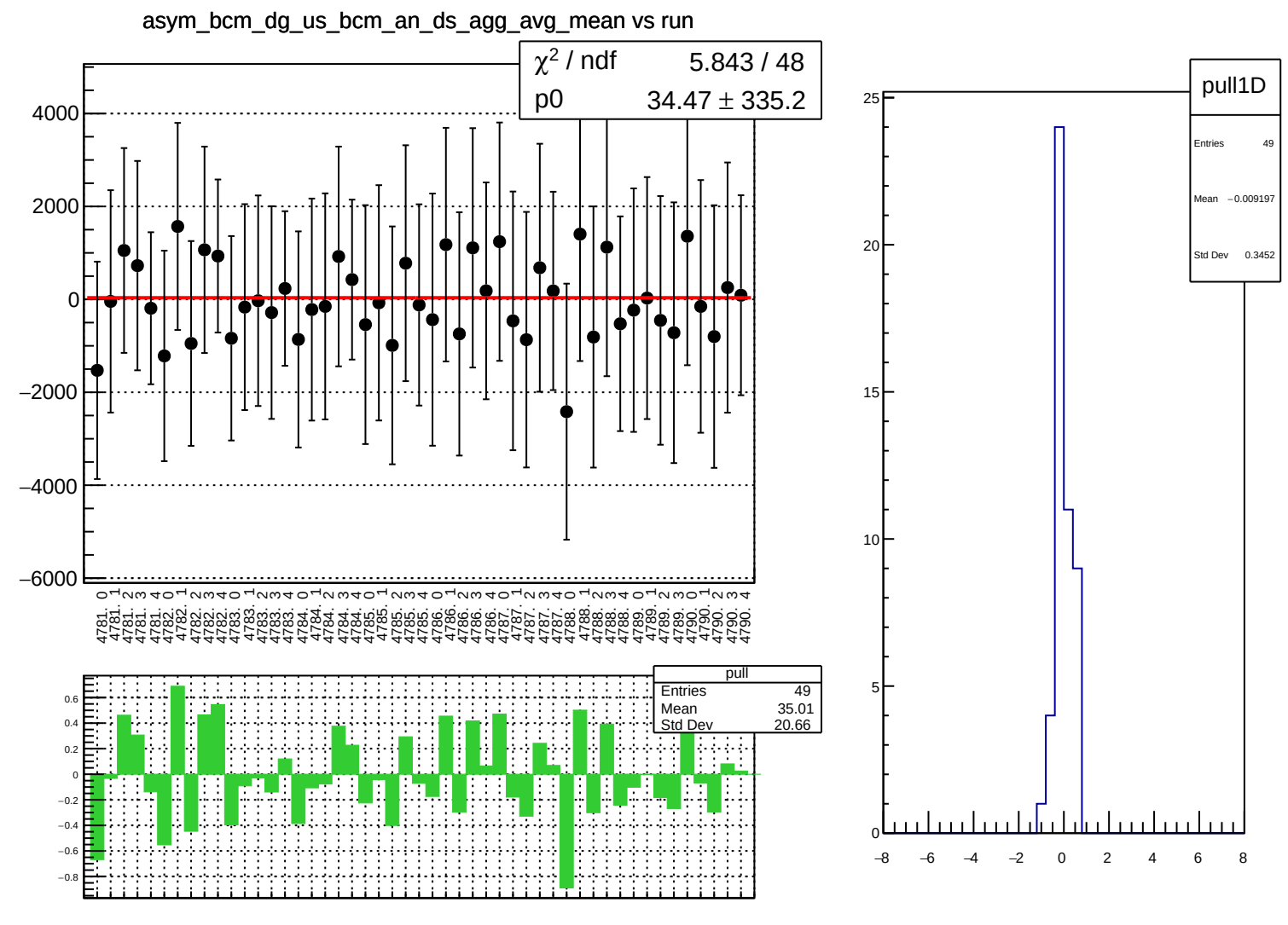
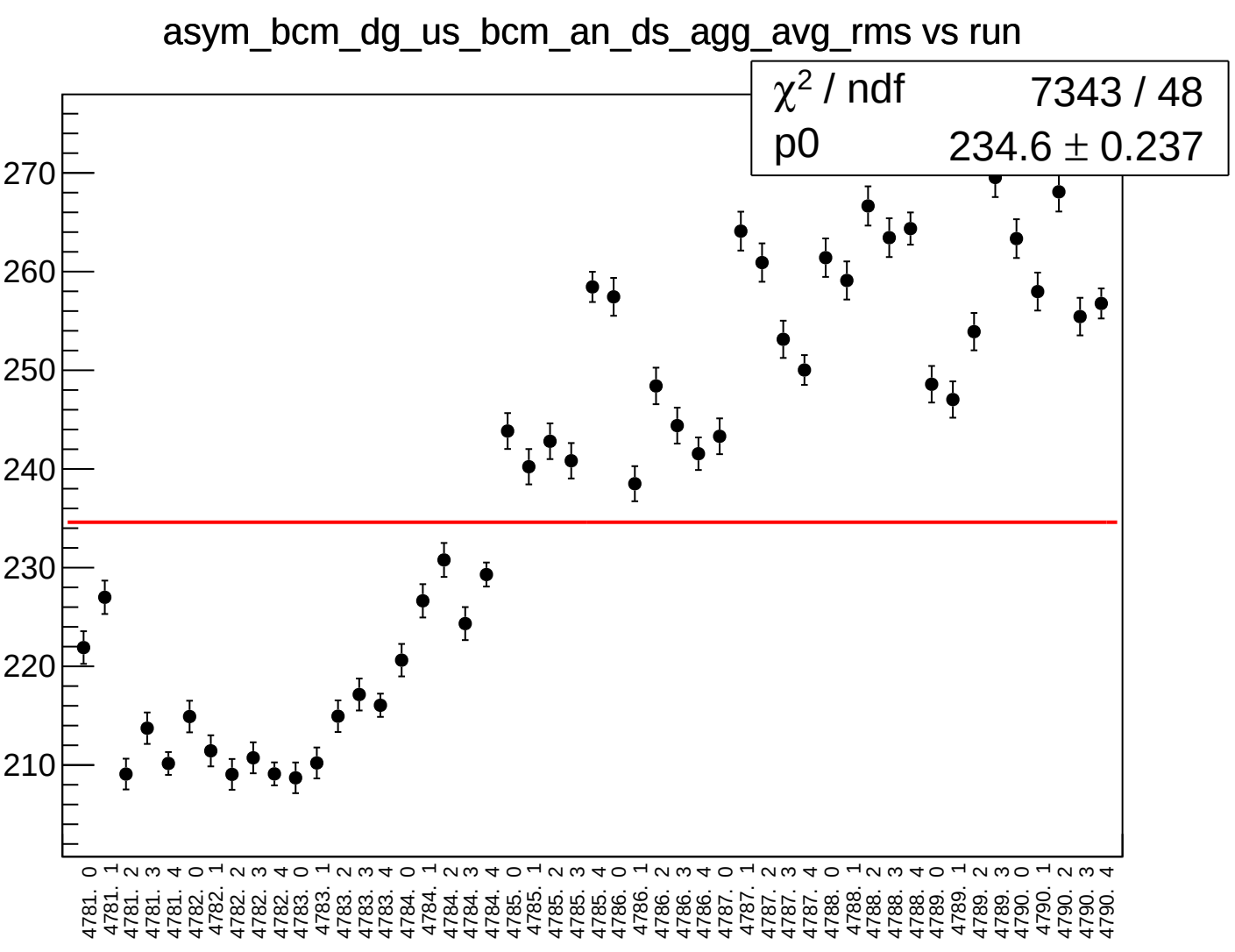
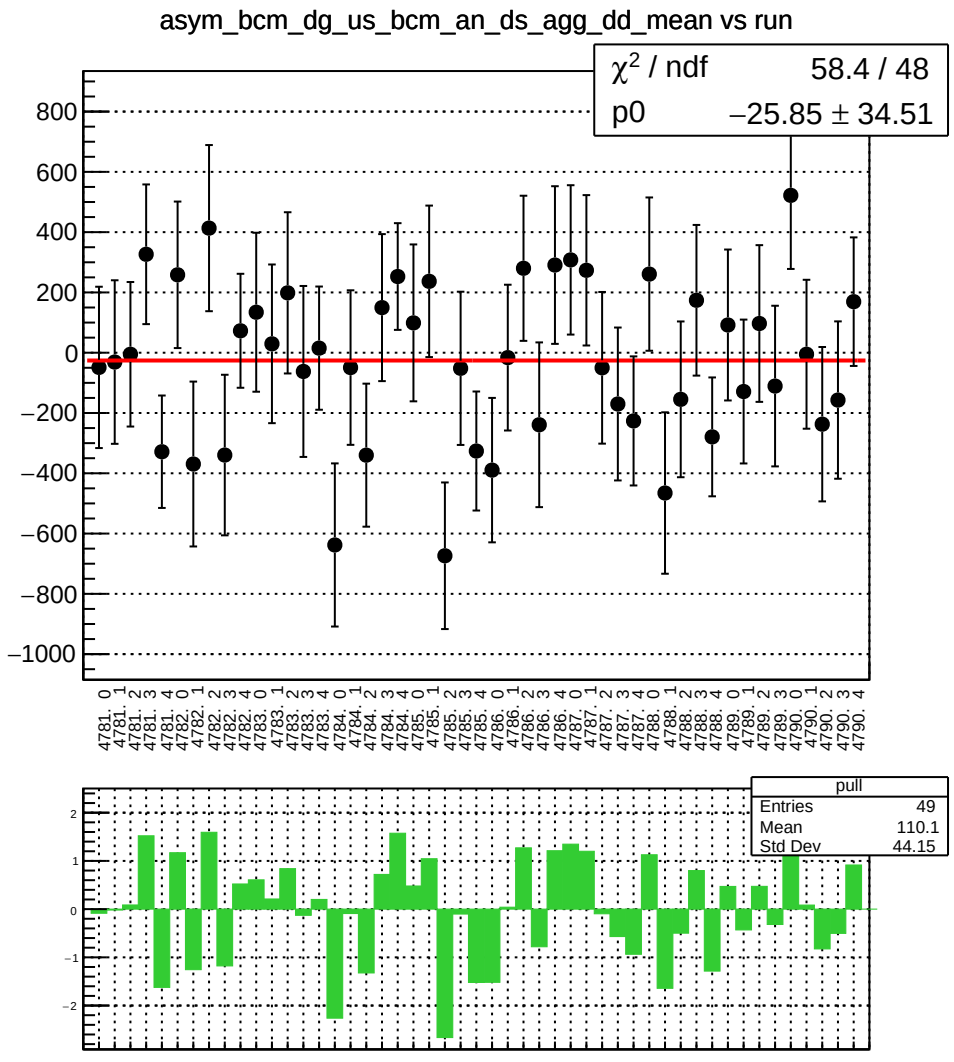
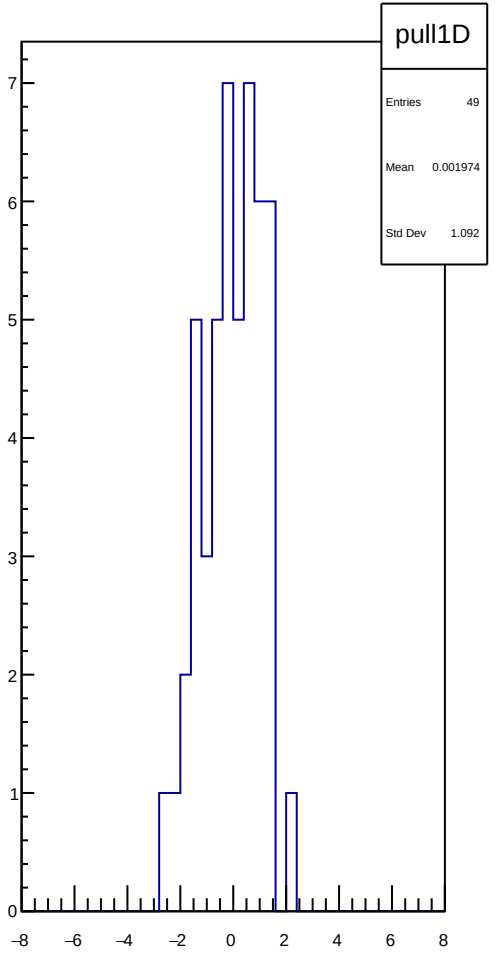
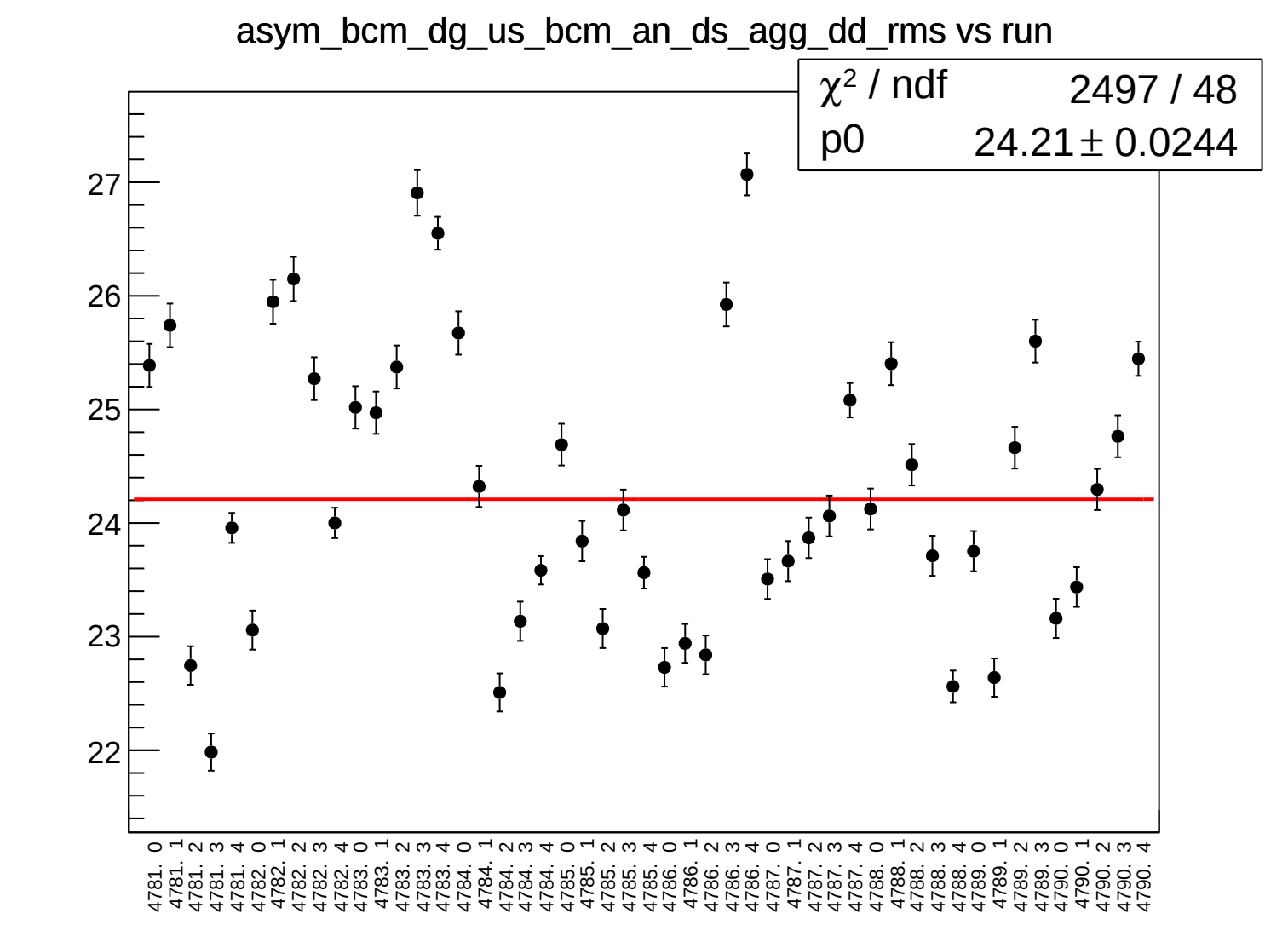
4790. 3
4790. 4

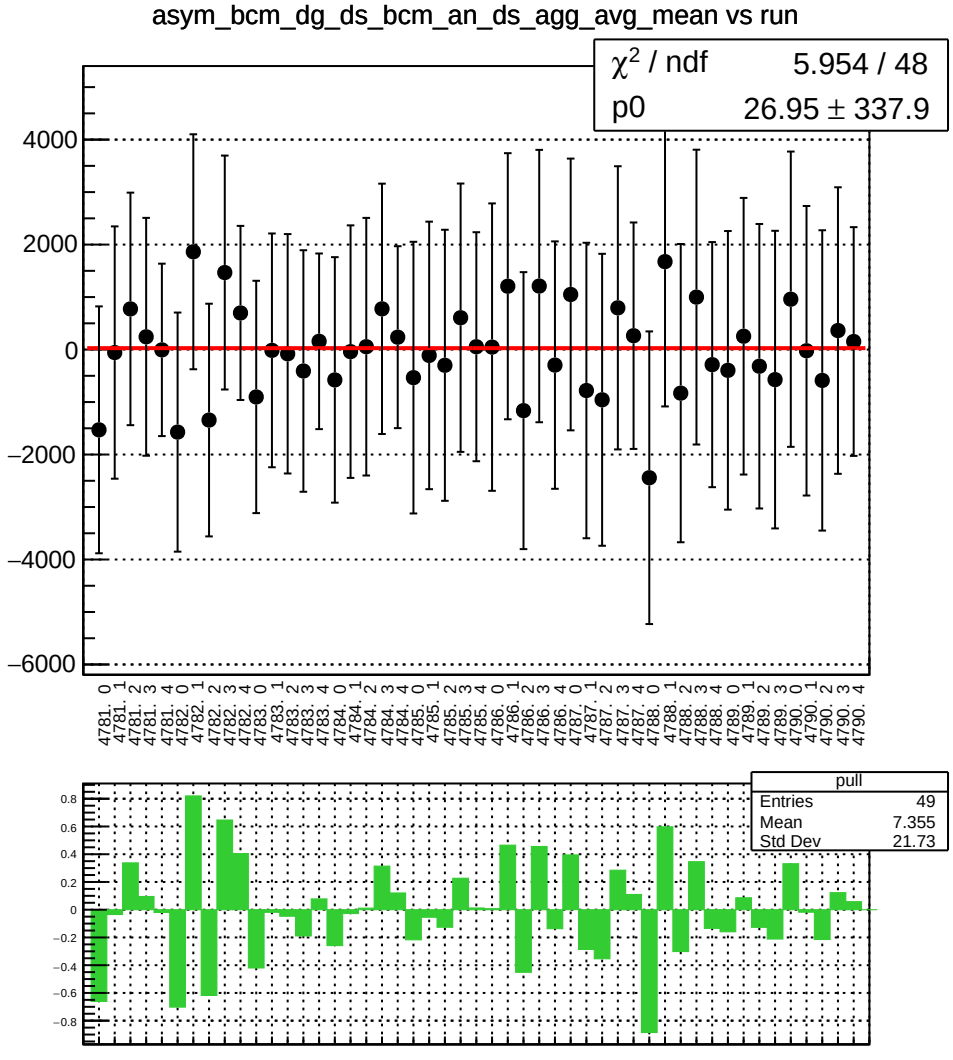

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 5.843 / 48
p0 34.47 ± 335.2
4000
2000
0
−2000
−4000
−6000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 35.01
Std Dev 20.66
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 49
Mean −0.009197
Std Dev 0.3452
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

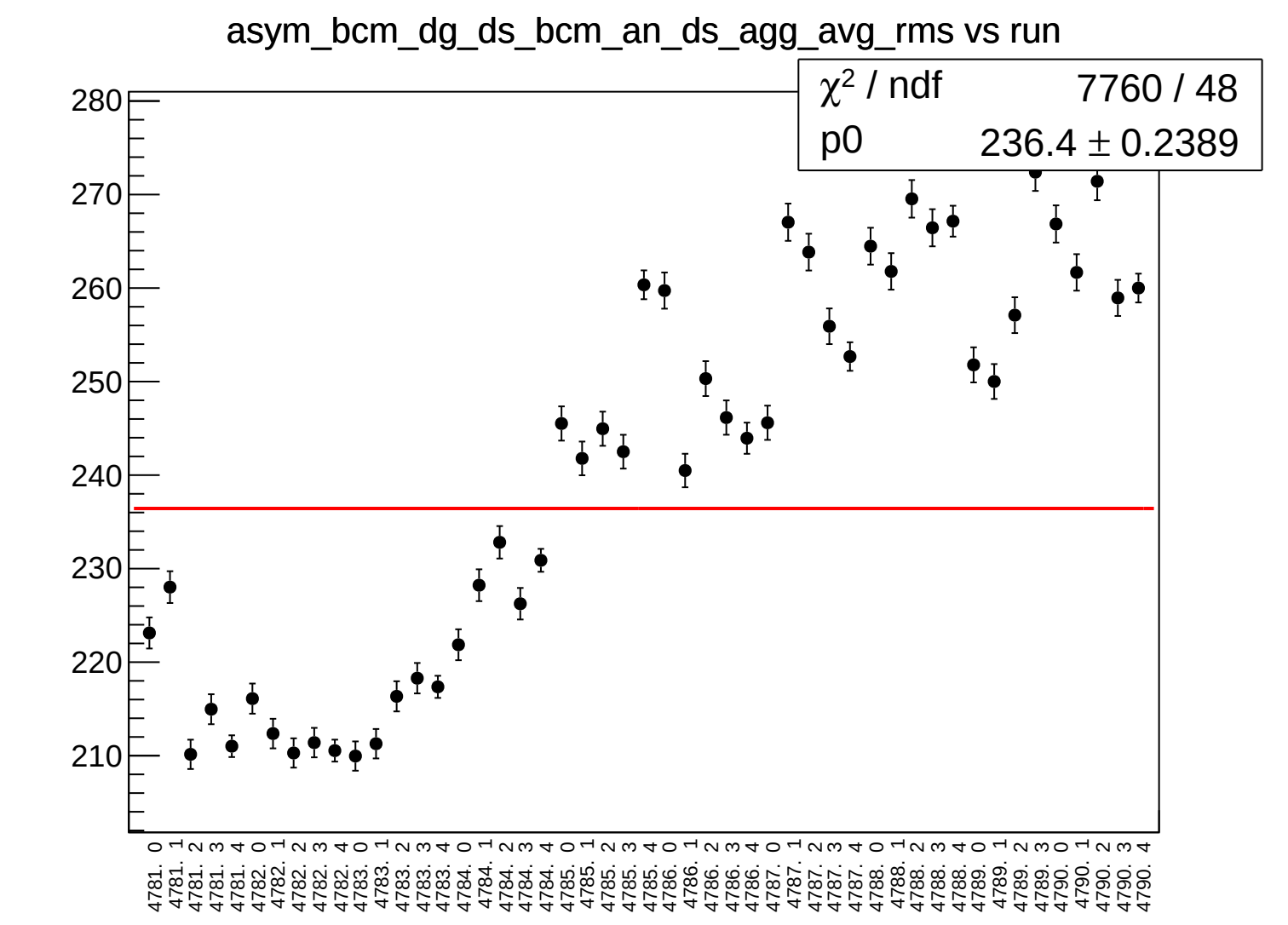

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7343 / 48
p0 234.6 ± 0.237
270
260
250
240
230
220
210
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

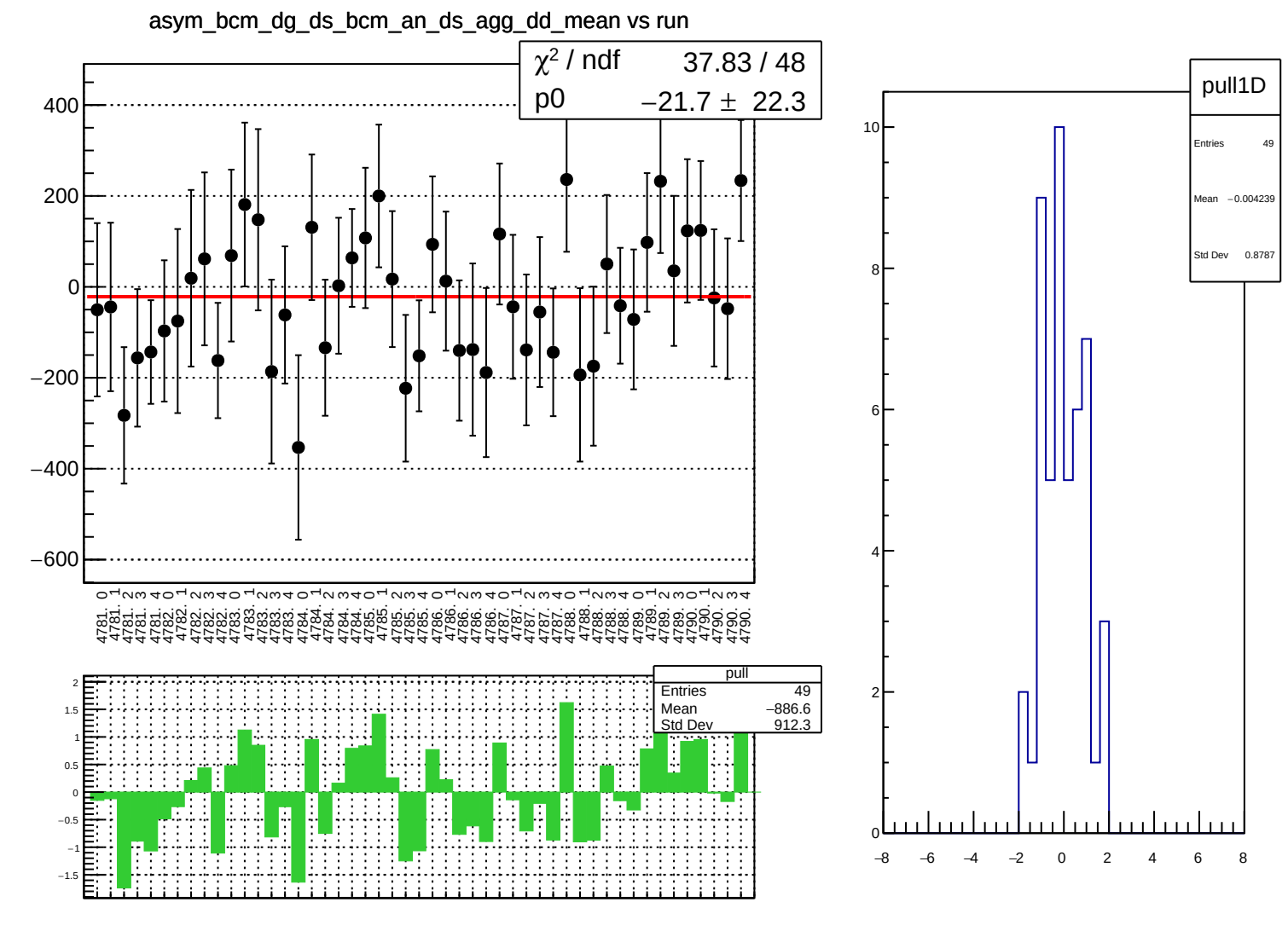

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 58.4 / 48
p0 −25.85 ± 34.51
pull
Entries 49
Mean 110.1
Std Dev 44.15

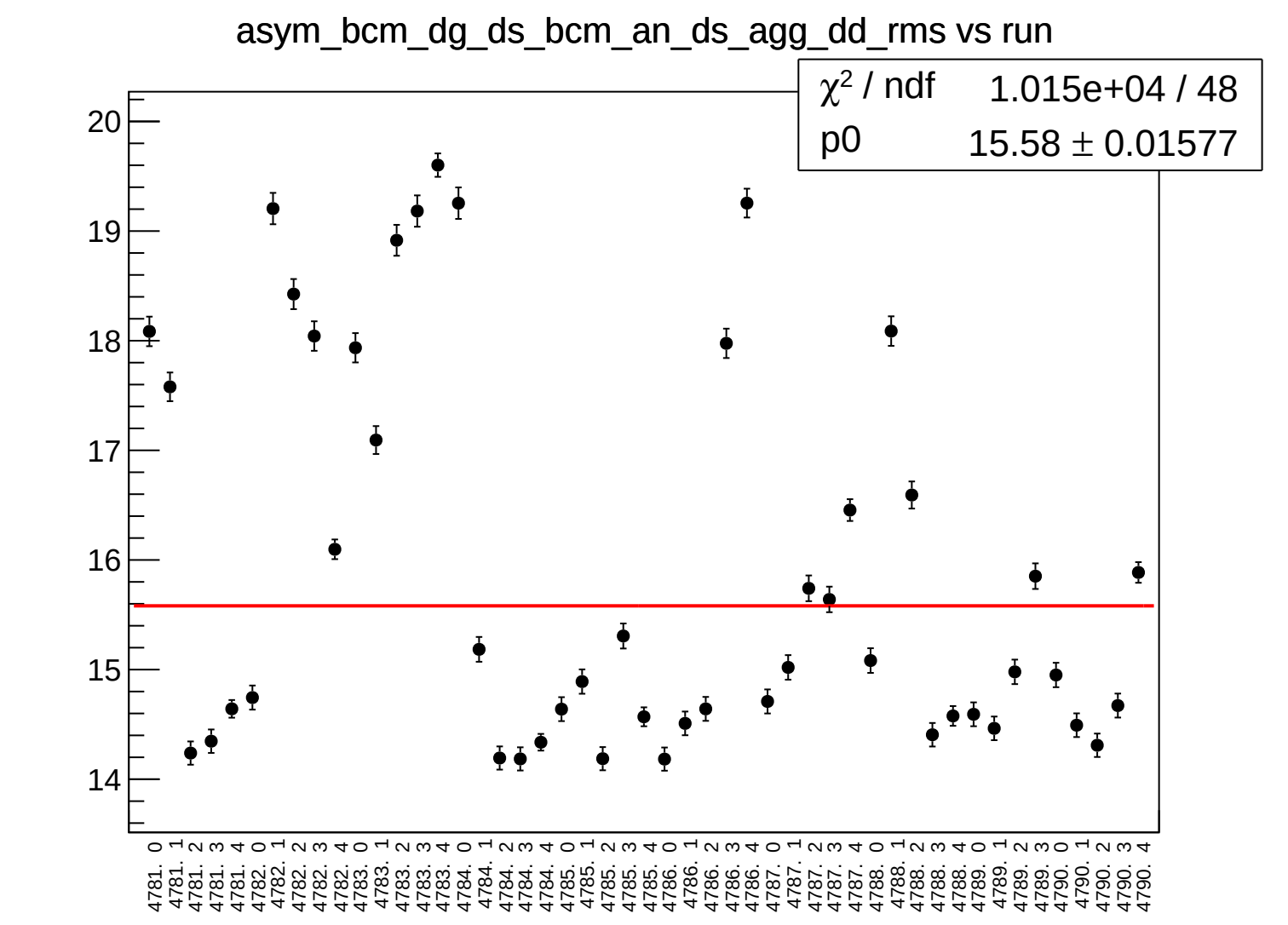

pull1D
Entries 49
Mean 0.001974
Std Dev 1.092

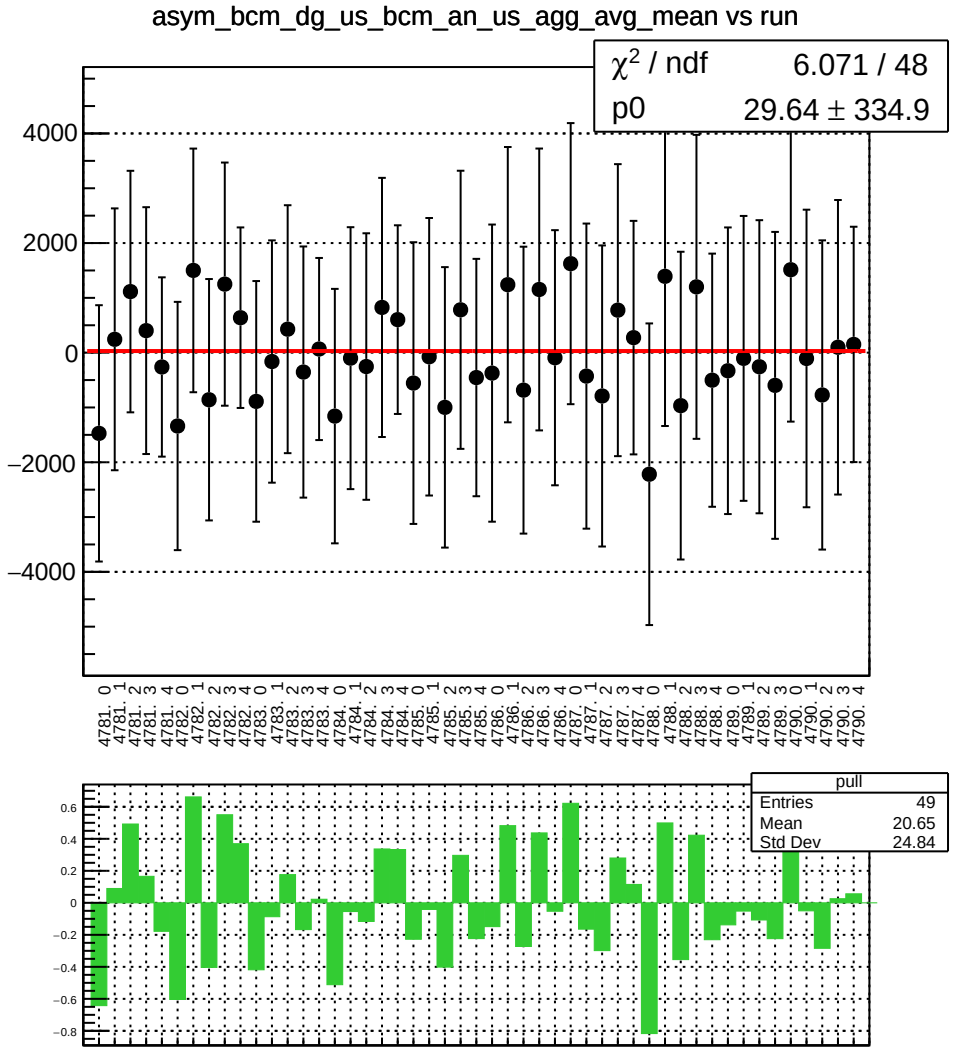

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2497 / 48
p0 24.21 ± 0.0244
27
26
25
24
23
22
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

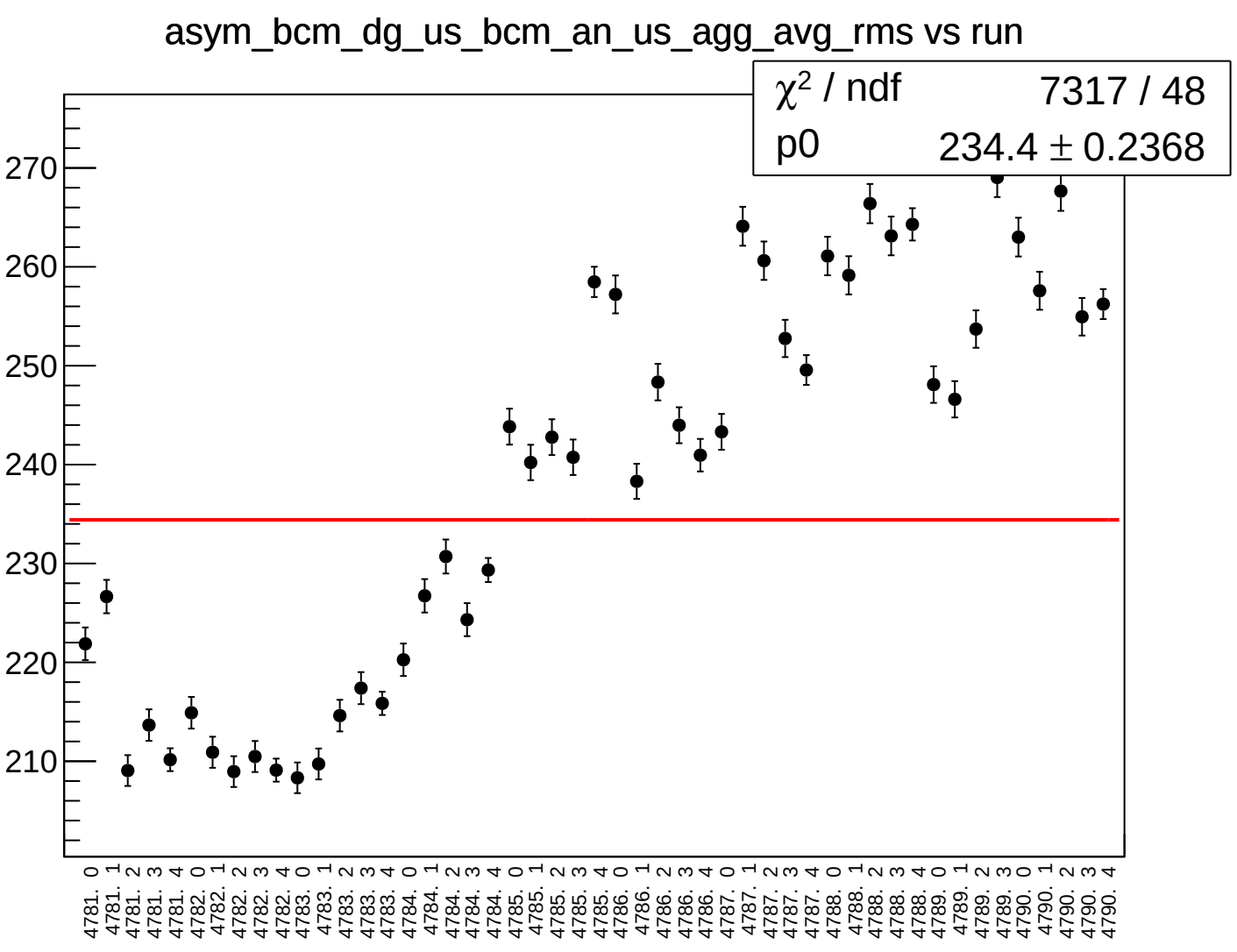

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 5.954 / 48
p0 26.95 ± 337.9
4000
2000
0
−2000
−4000
−6000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 7.355
Std Dev 21.73
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 49
Mean −0.007109
Std Dev 0.3485
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

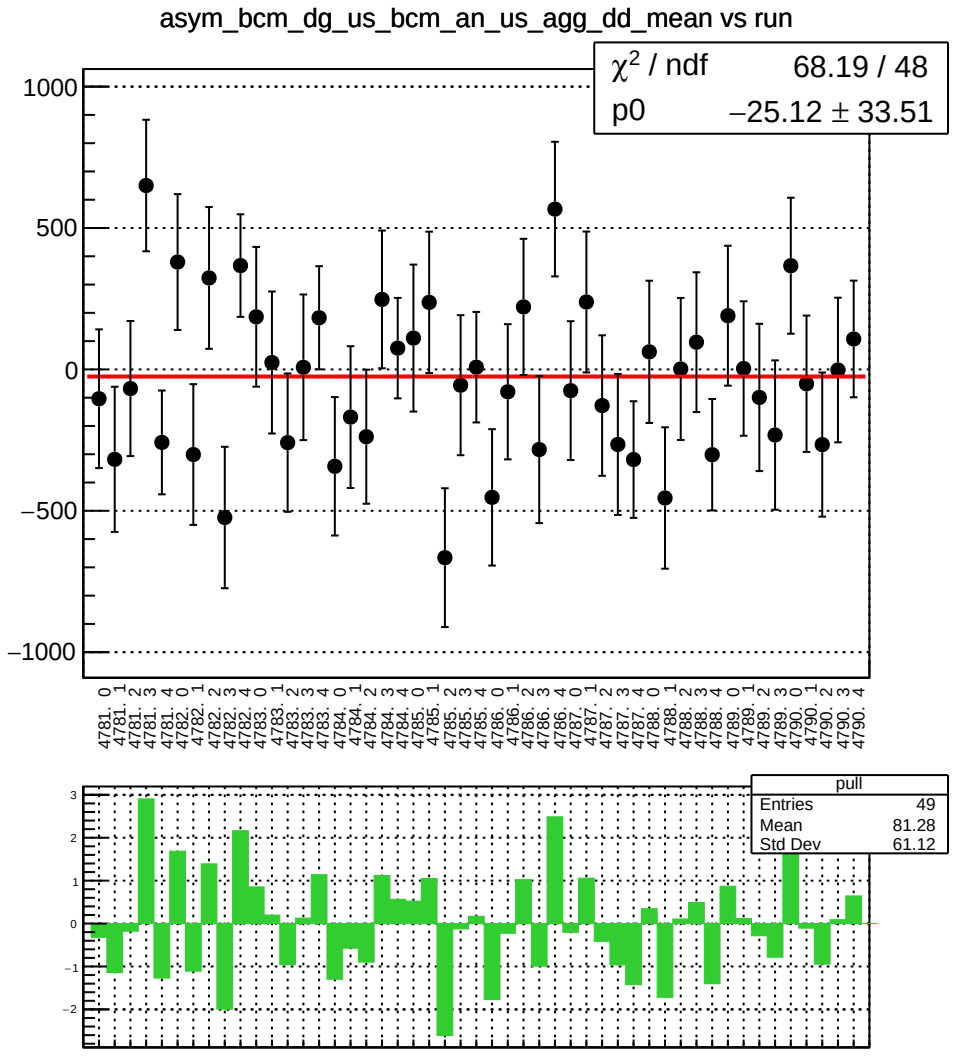

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7760 / 48
p0 236.4 ± 0.2389
280
270
260
250
240
230
220
210
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

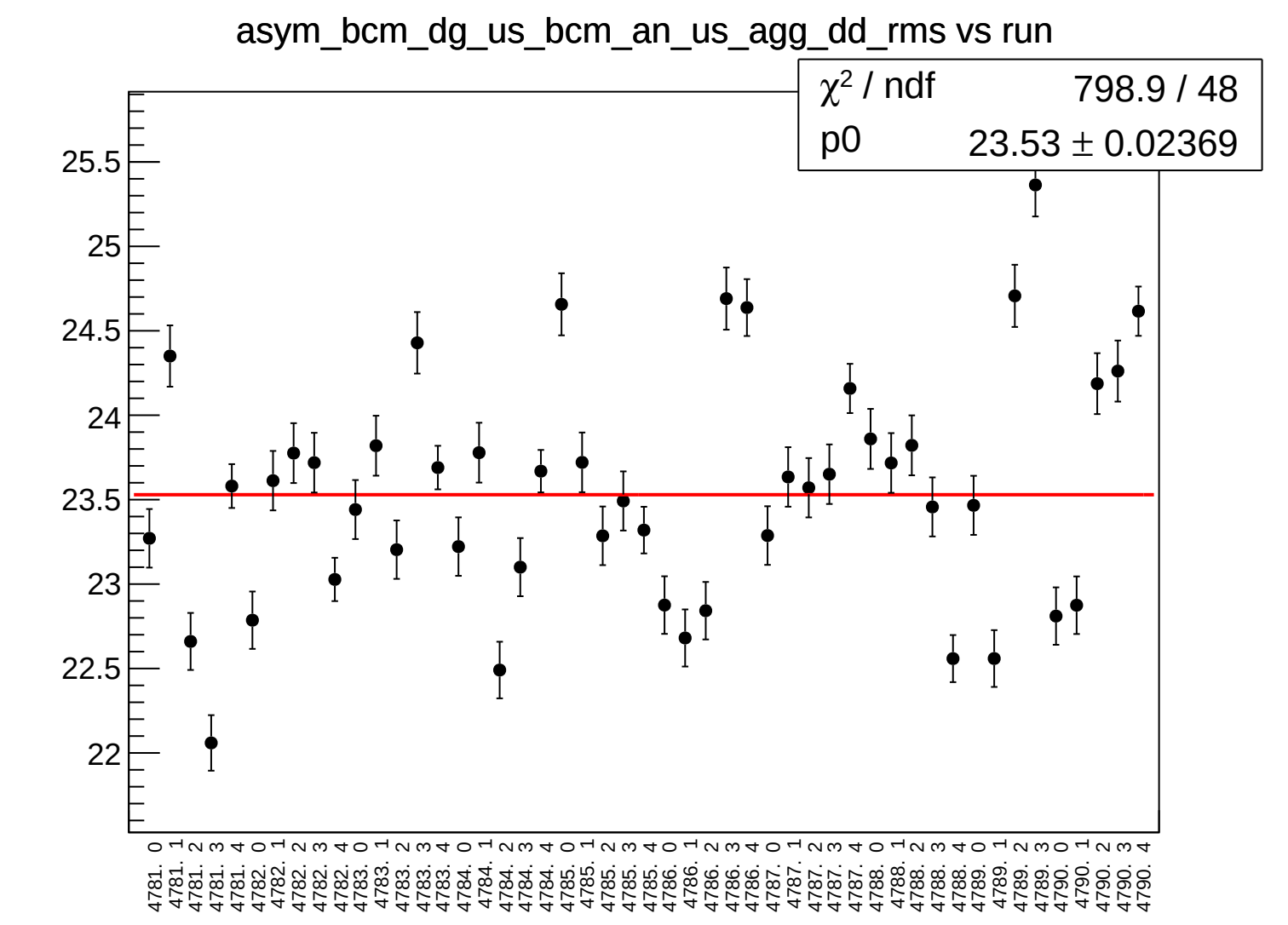

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 37.83 / 48
p0 −21.7 ± 22.3
400
200
0
−200
−400
−600
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −886.6
Std Dev 912.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 49
Mean −0.004239
Std Dev 0.8787
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

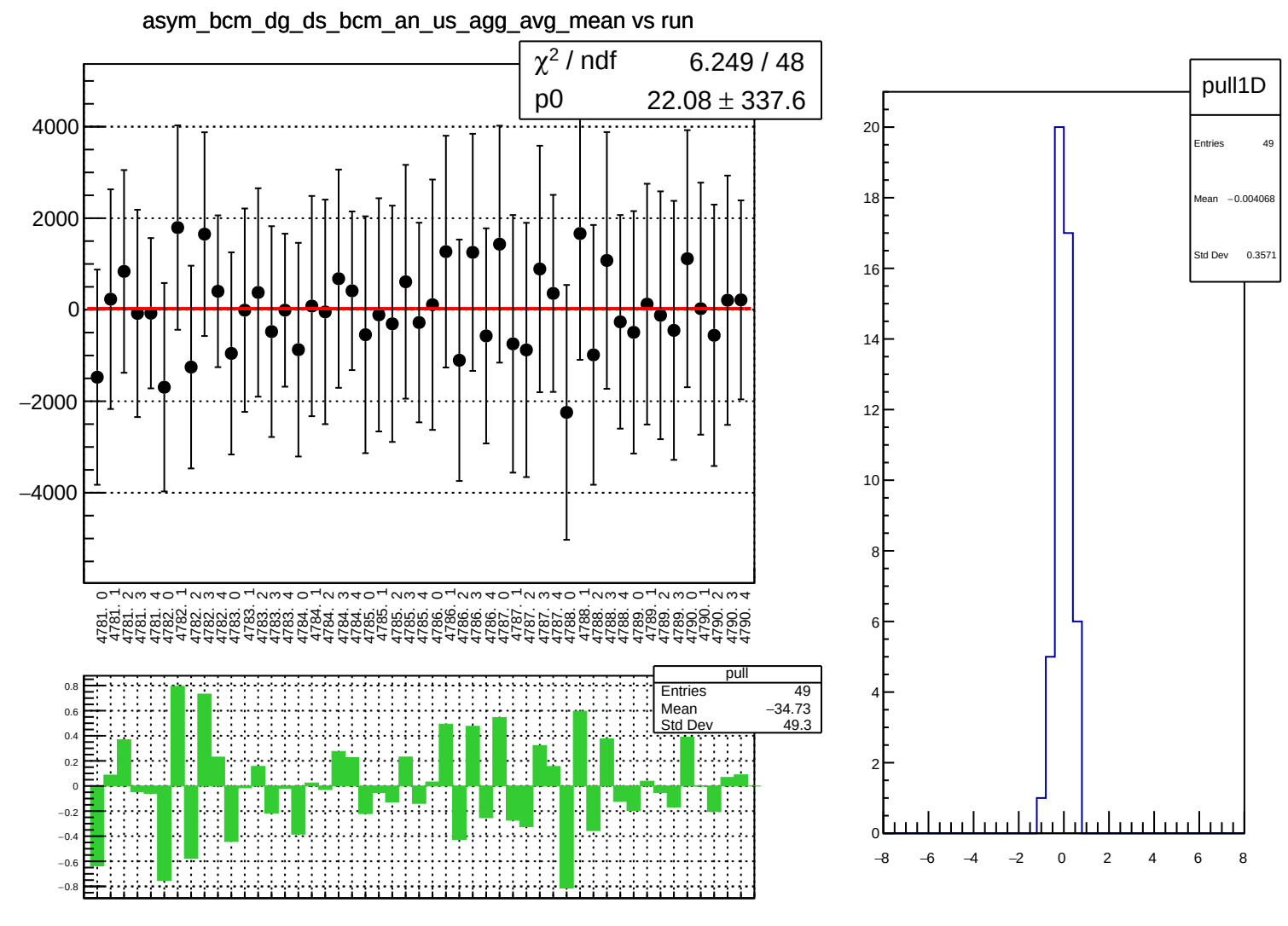

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.015e+04 / 48
p0 15.58 ± 0.01577
20
19
18
17
16
15
14
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

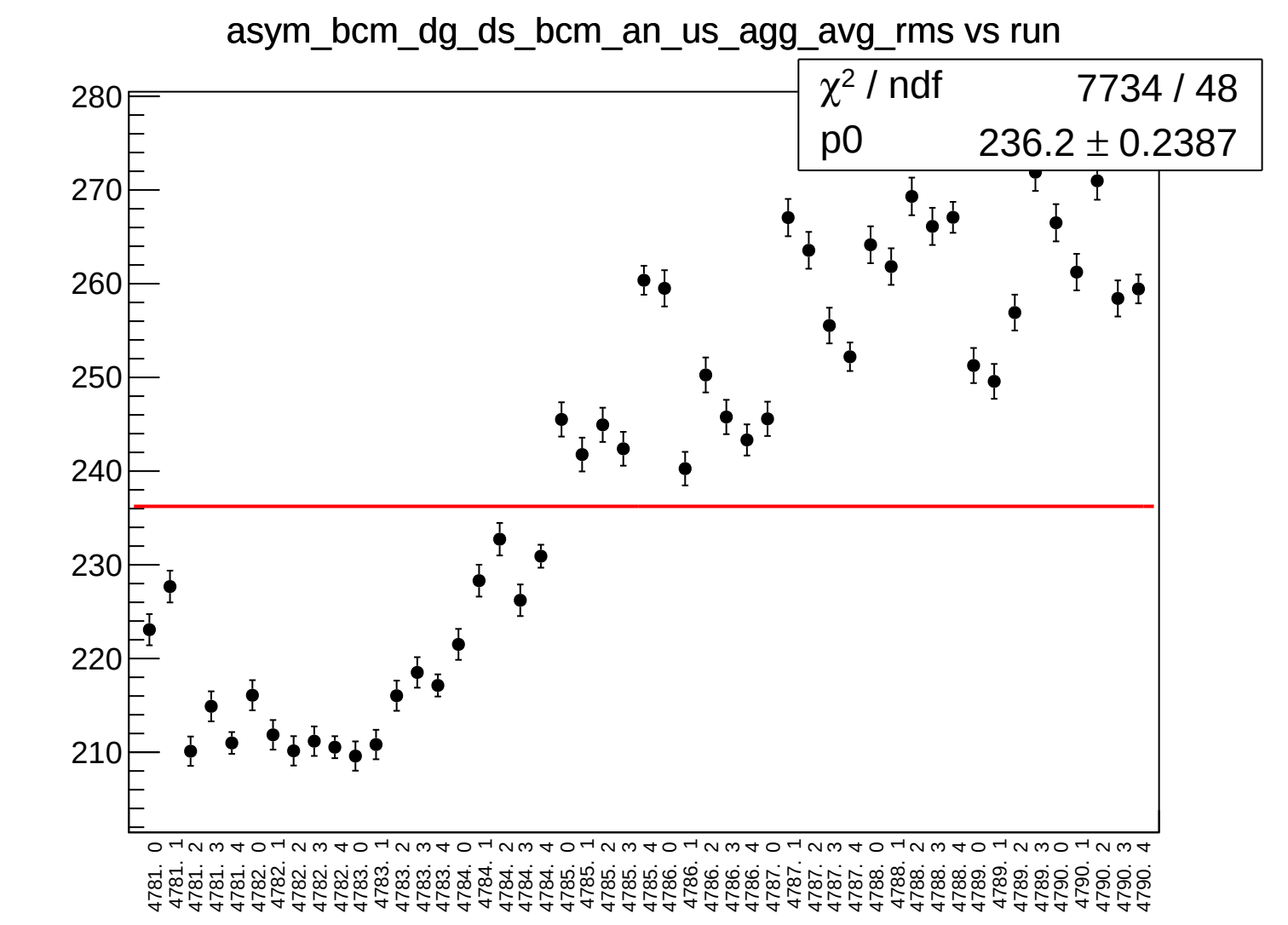

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 6.071 / 48
p0 29.64 ± 334.9
4000
2000
0
−2000
−4000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 20.65
Std Dev 24.84
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 49
Mean −0.006143
Std Dev 0.3519
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

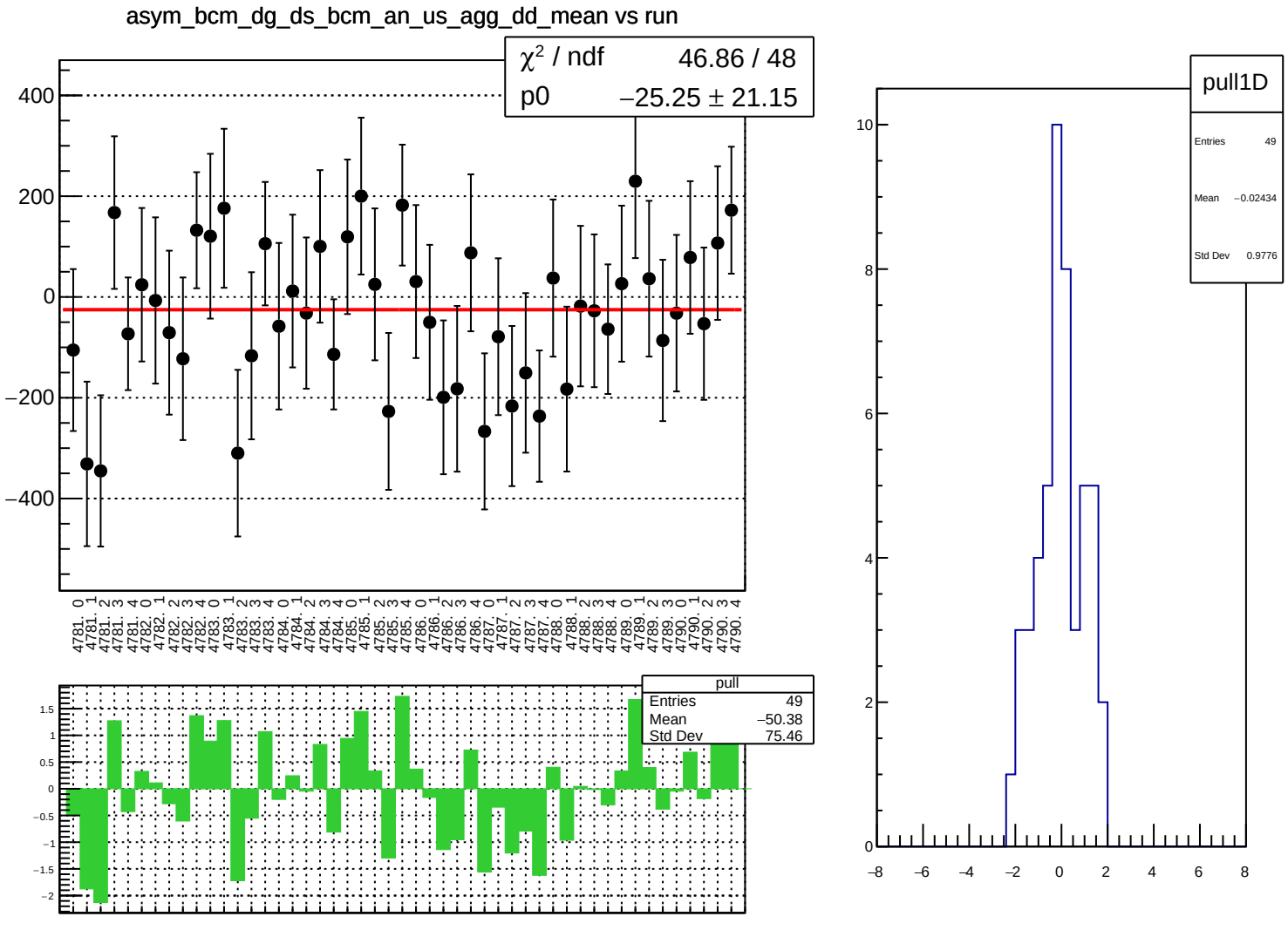

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 7317 / 48
p0 234.4 ± 0.2368
270
260
250
240
230
220
210
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

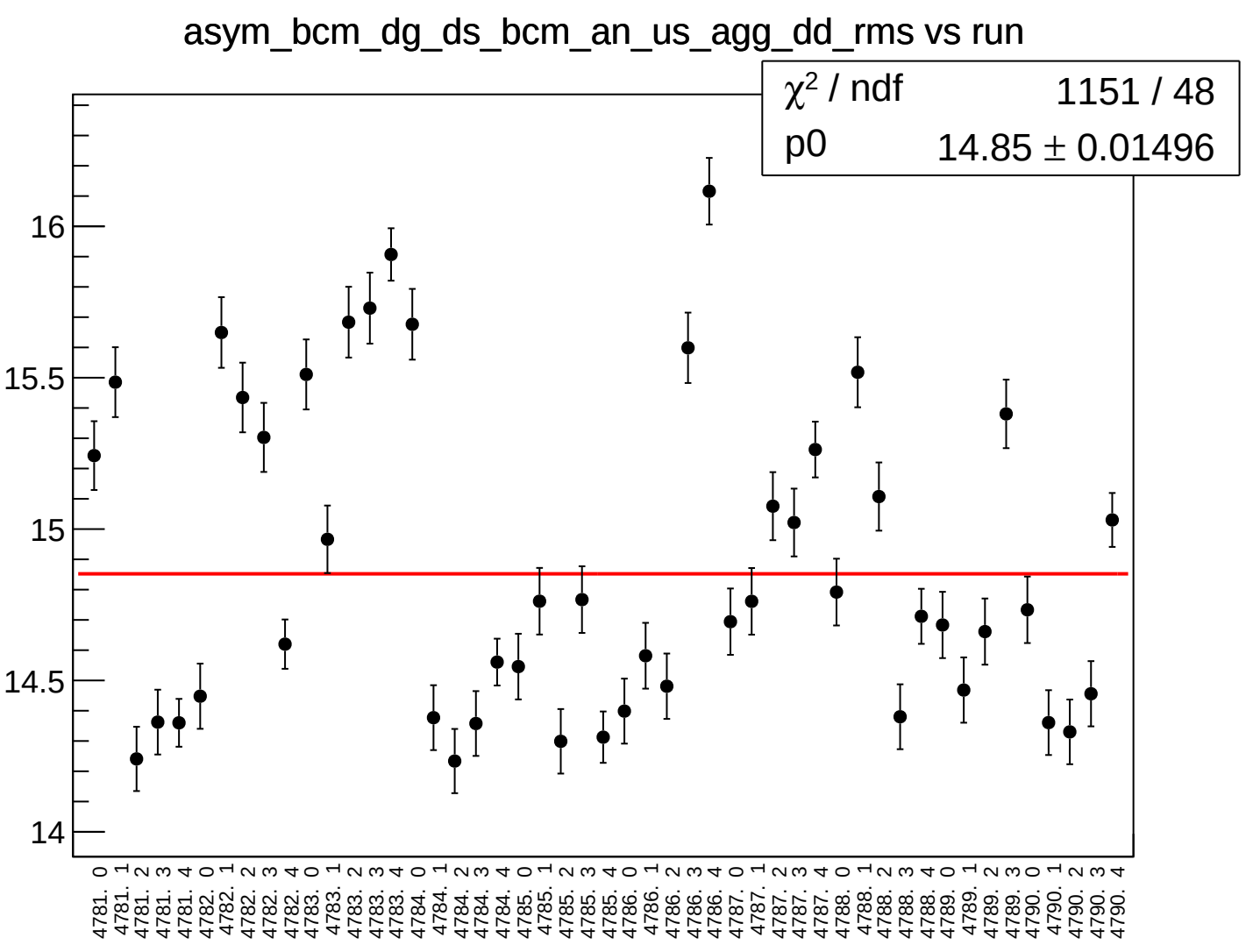

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 68.19 / 48
p0 −25.12 ± 33.51
1000
500
0
−500
−1000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 81.28
Std Dev 61.12
3
2
1
0
−1
−2
pull1D
Entries 49
Mean −0.01941
Std Dev 1.18
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

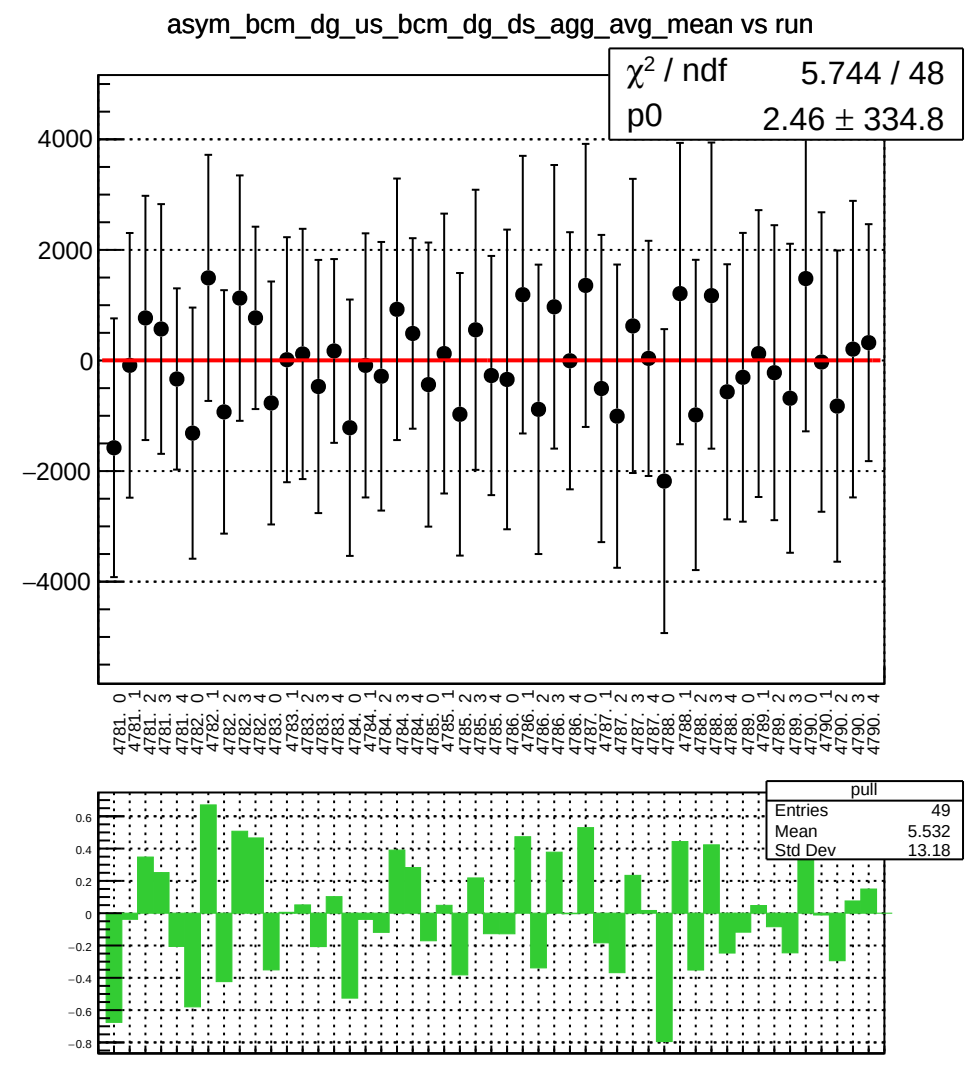

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 798.9 / 48
p0 23.53 ± 0.02369
25.5
25
24.5
24
23.5
23
22.5
22
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

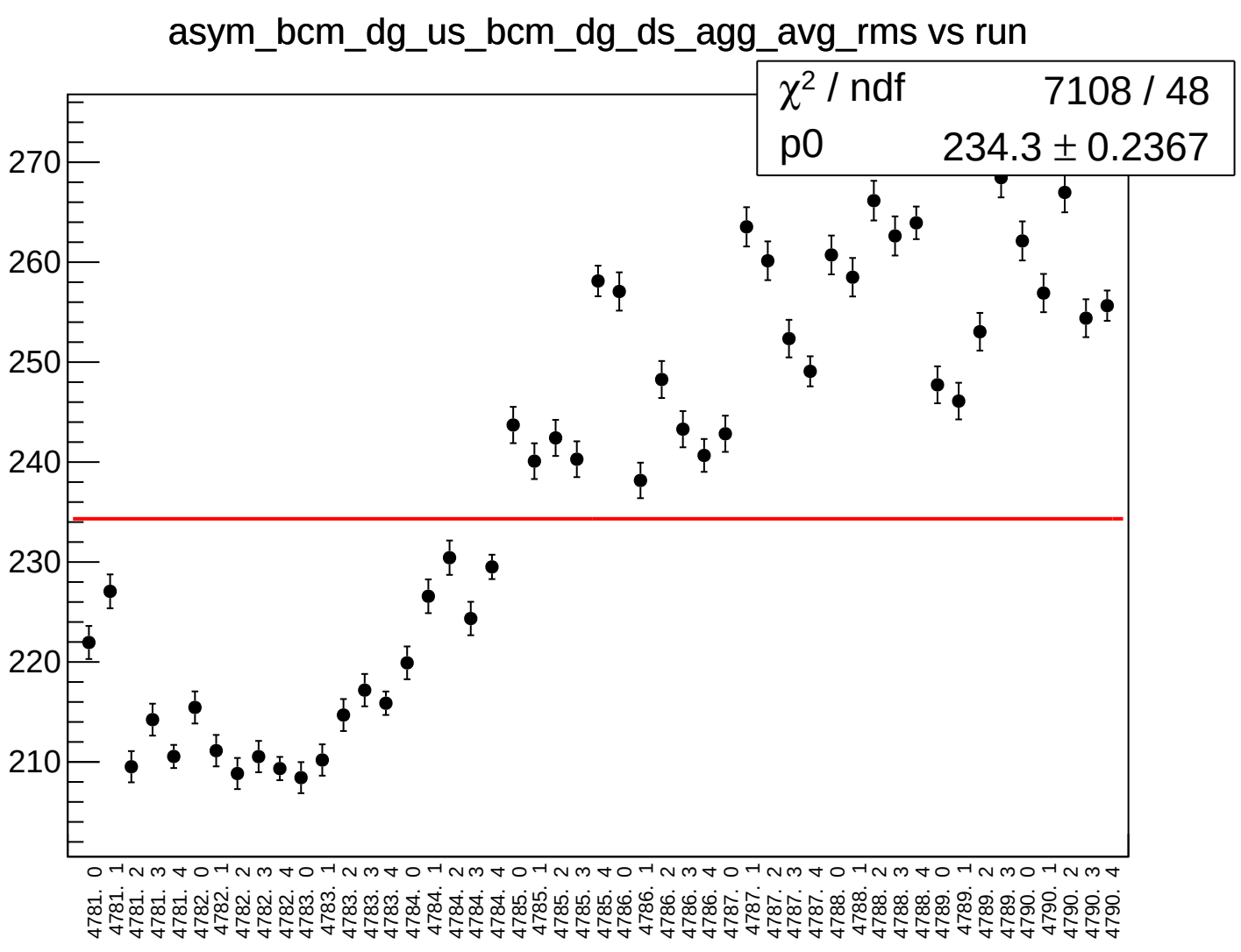

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 6.249 / 48
p0 22.08 ± 337.6
4000
2000
0
−2000
−4000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −34.73
Std Dev 49.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 49
Mean −0.004068
Std Dev 0.3571
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 7734 / 48
p0 236.2 ± 0.2387
280
270
260
250
240
230
220
210
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 46.86 / 48
p0 −25.25 ± 21.15
400
200
0
−200
−400
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −50.38
Std Dev 75.46
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean −0.02434
Std Dev 0.9776
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1151 / 48
p0 14.85 ± 0.01496
16
15.5
15
14.5
14
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 5.744 / 48
p0 2.46 ± 334.8
4000
2000
0
−2000
−4000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 5.532
Std Dev 13.18
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 49
Mean −0.007356
Std Dev 0.3423
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 7108 / 48
p0 234.3 ± 0.2367
270
260
250
240
230
220
210
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
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4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
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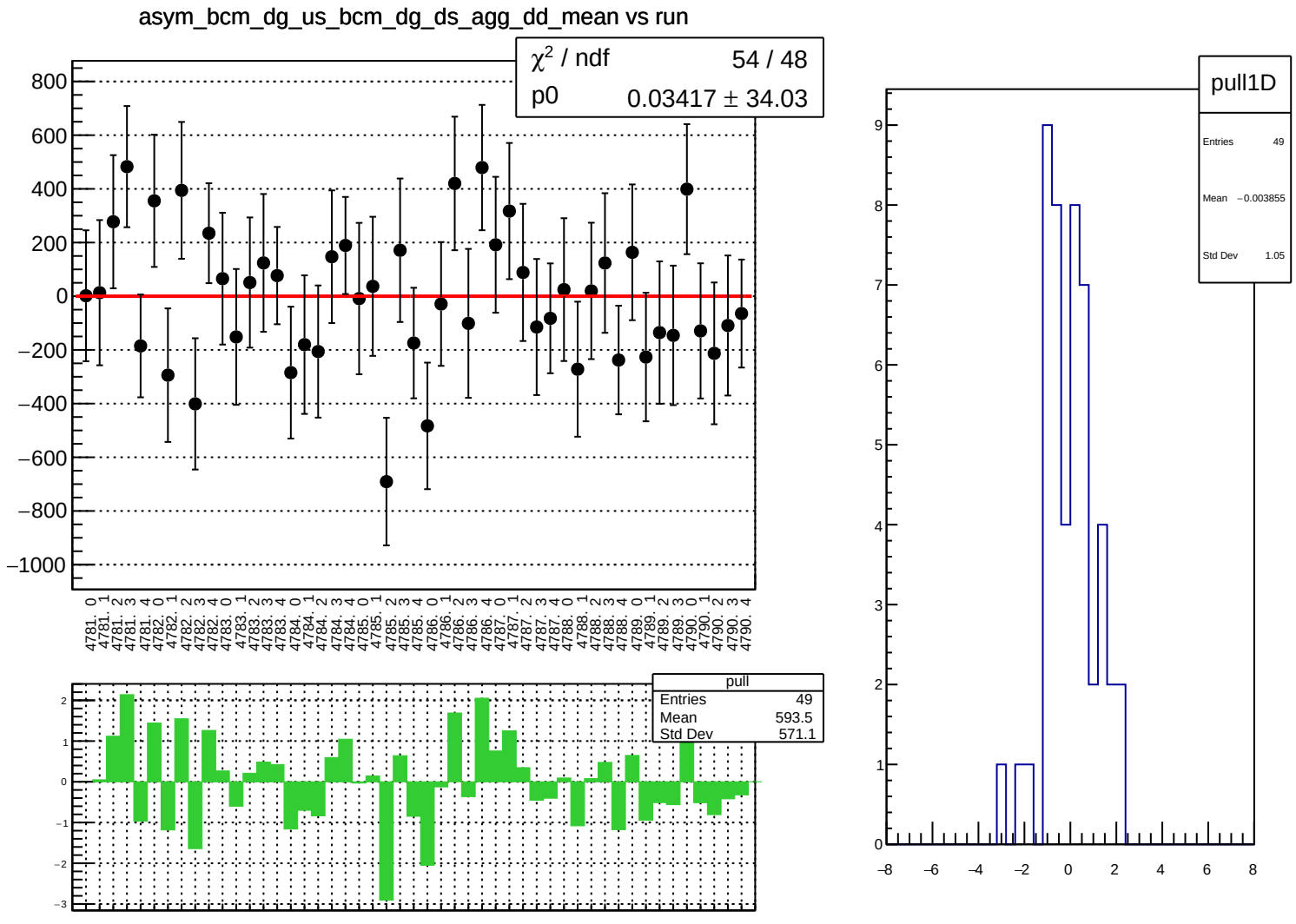
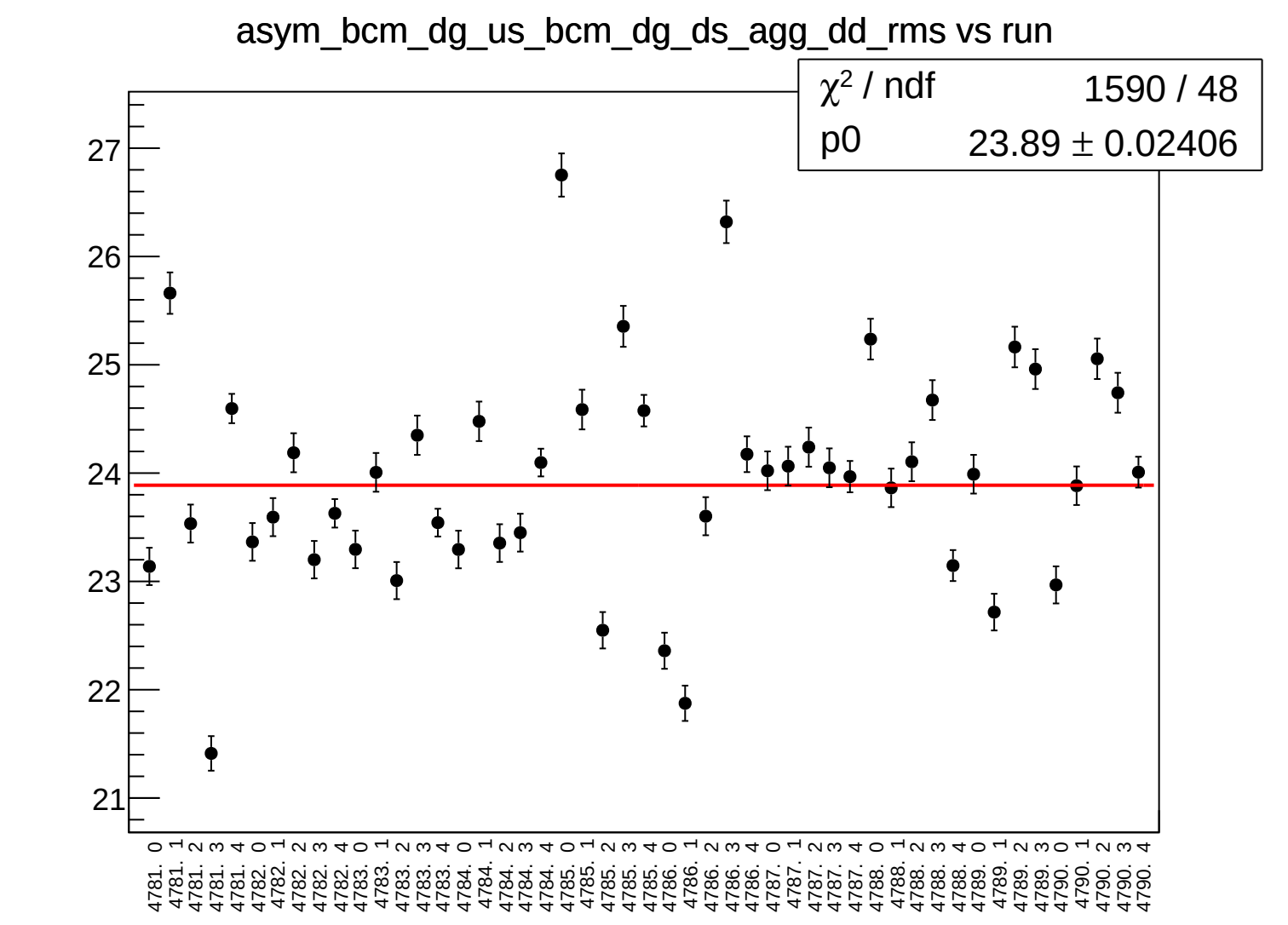
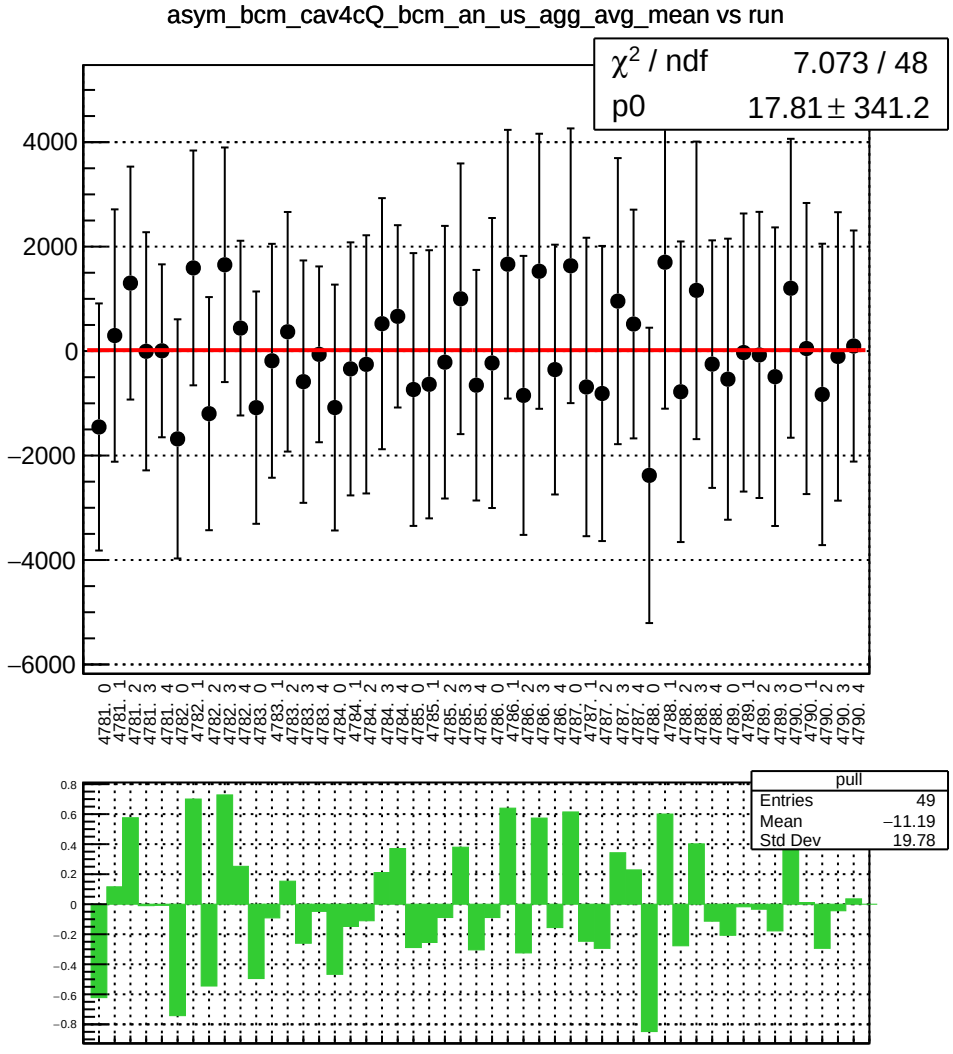
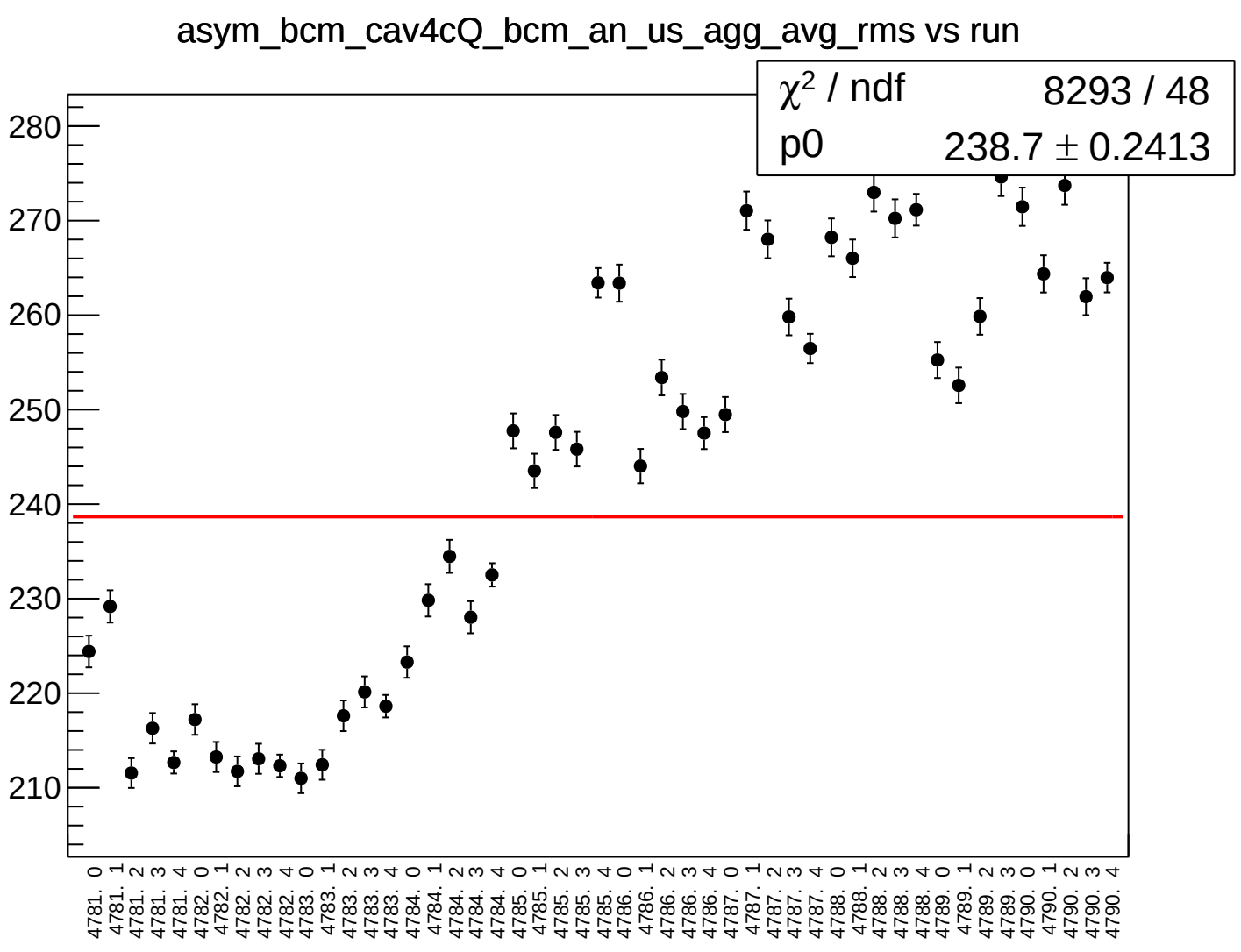
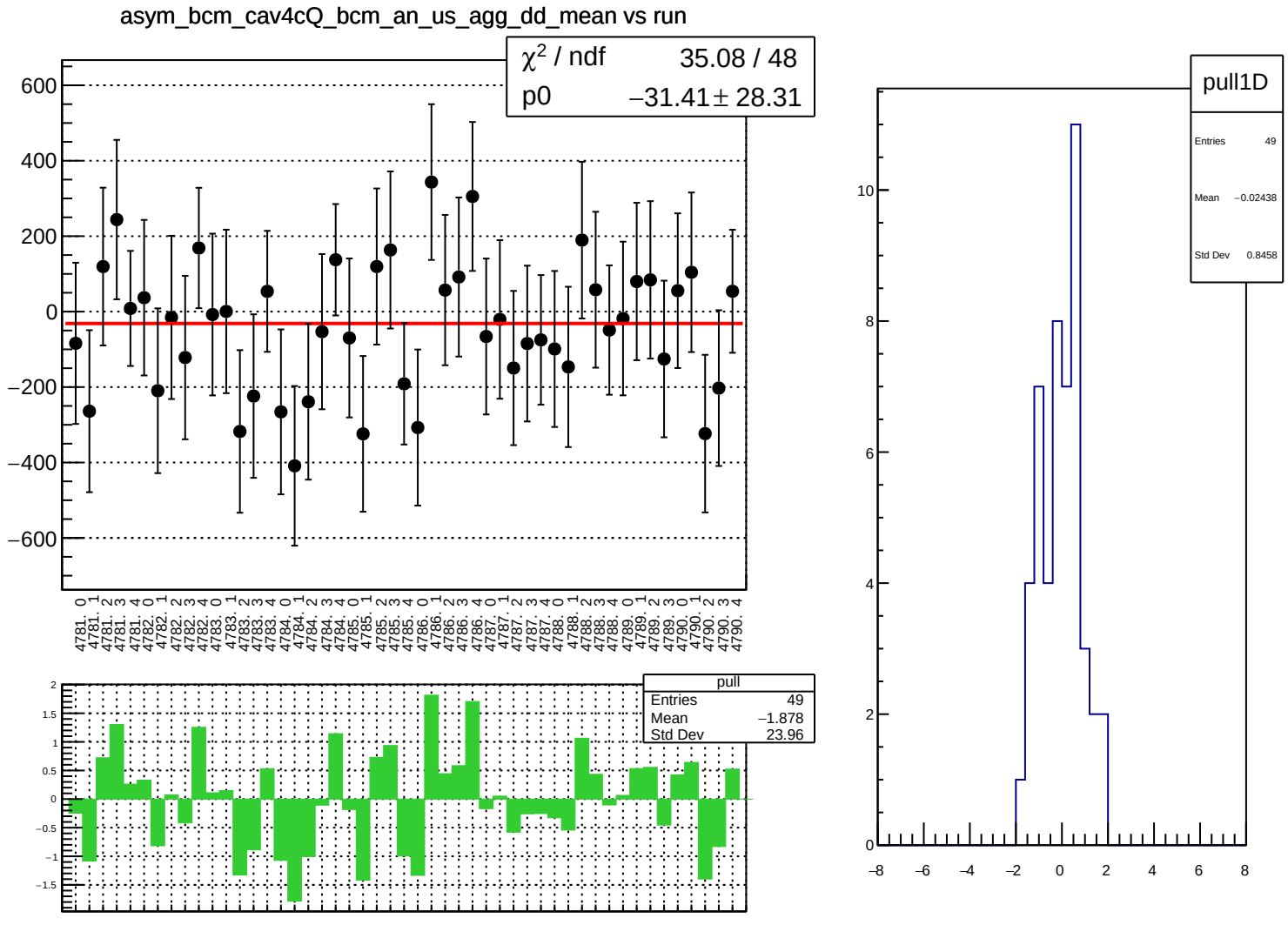
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

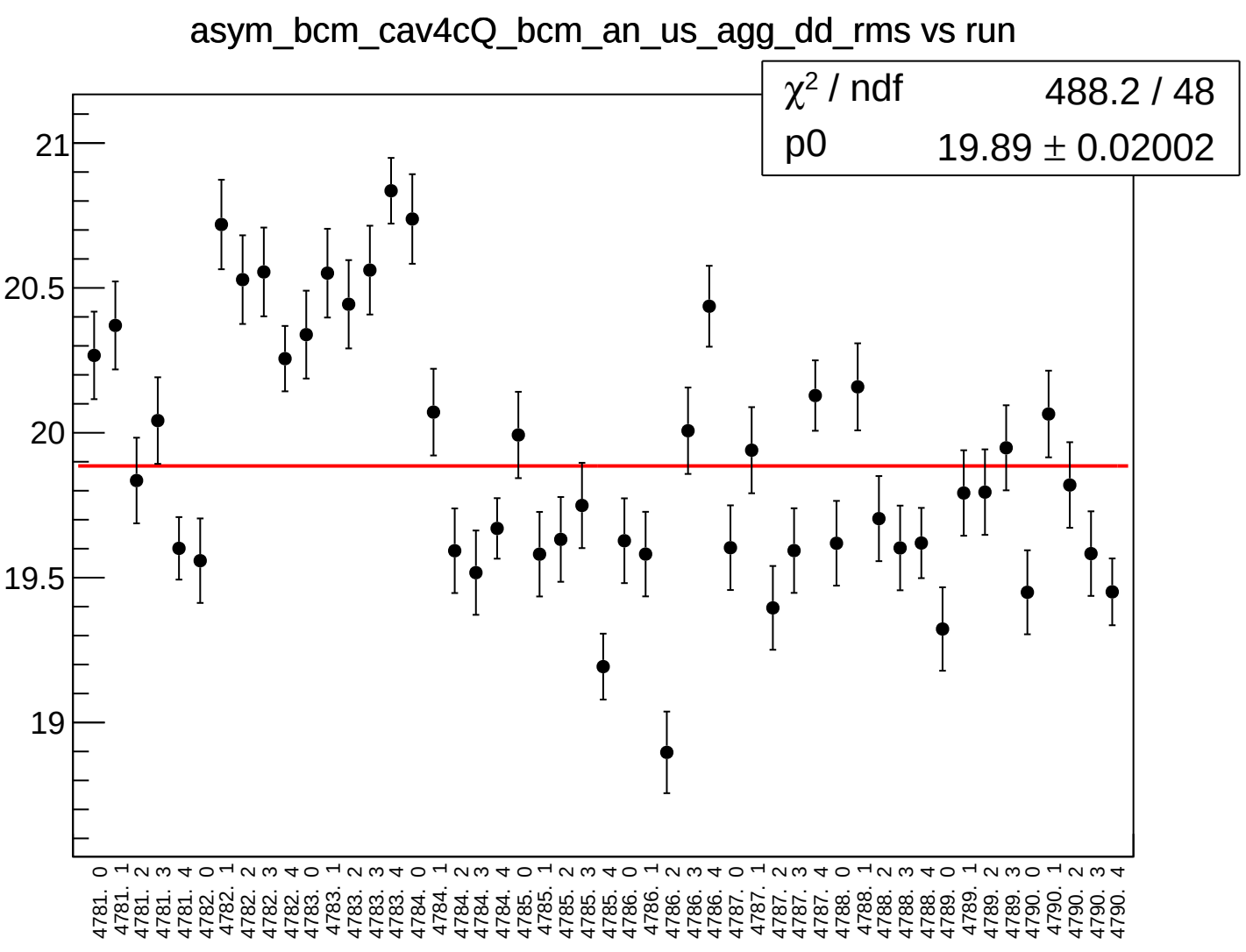

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 54 / 48
p0 0.03417 ± 34.03
pull
Entries 49
Mean 593.5
Std Dev 571.1
pull1D
Entries 49
Mean −0.003855
Std Dev 1.05

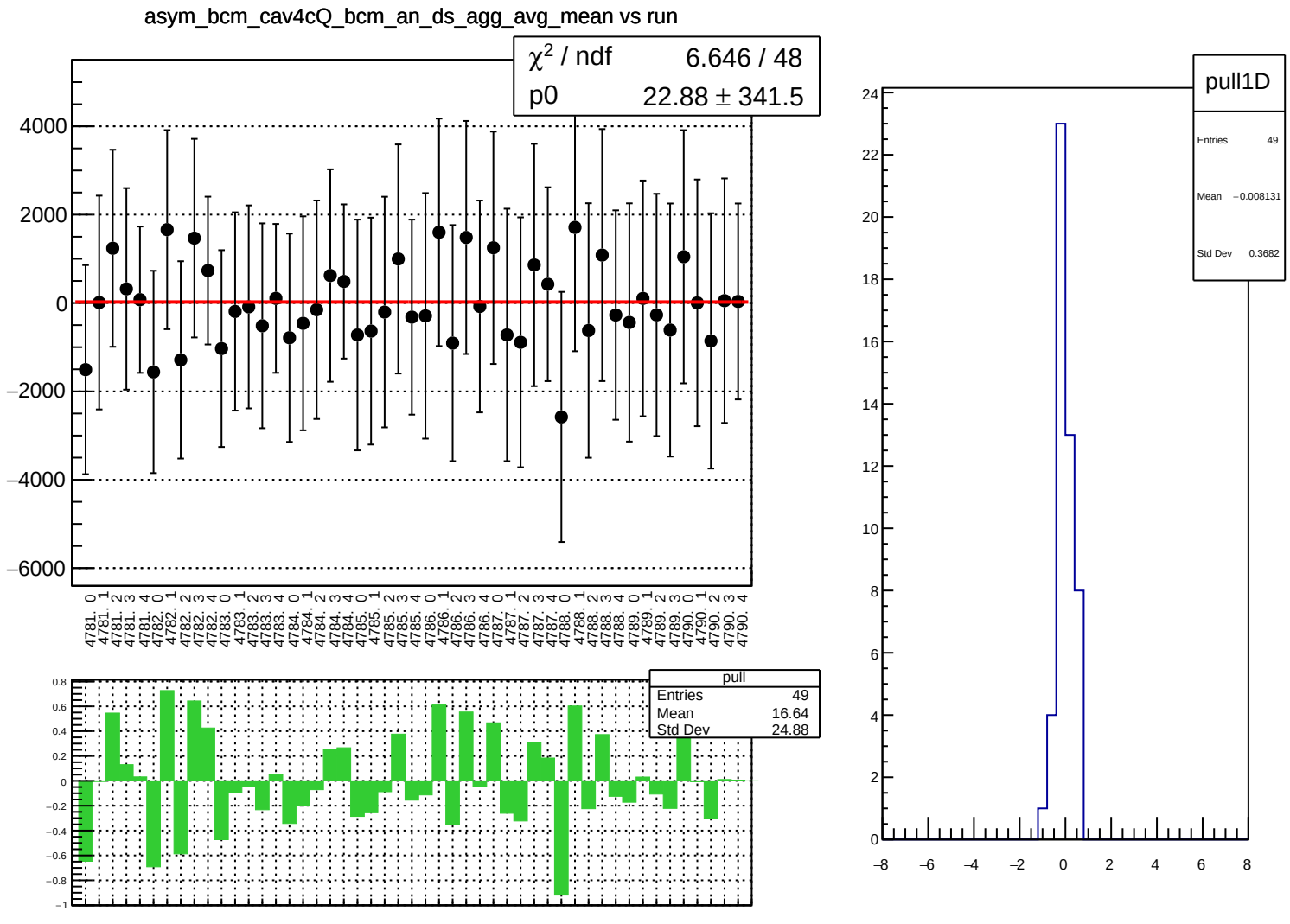

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1590 / 48
p0 23.89 ± 0.02406
27
26
25
24
23
22
21
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

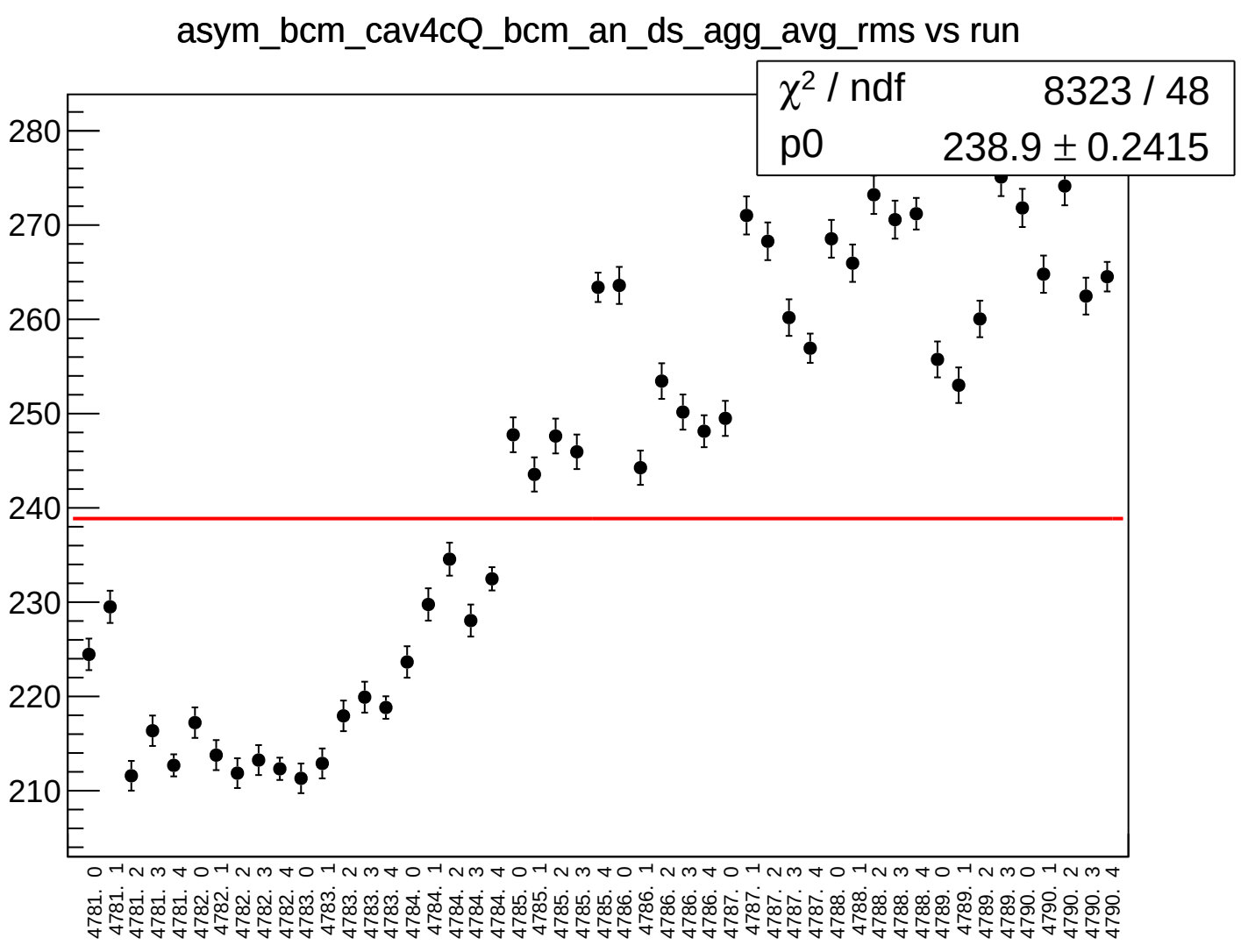

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 7.073 / 48
p0 17.81 ± 341.2
4000
2000
0
−2000
−4000
−6000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −11.19
Std Dev 19.78
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 49
Mean −0.00508
Std Dev 0.3799
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

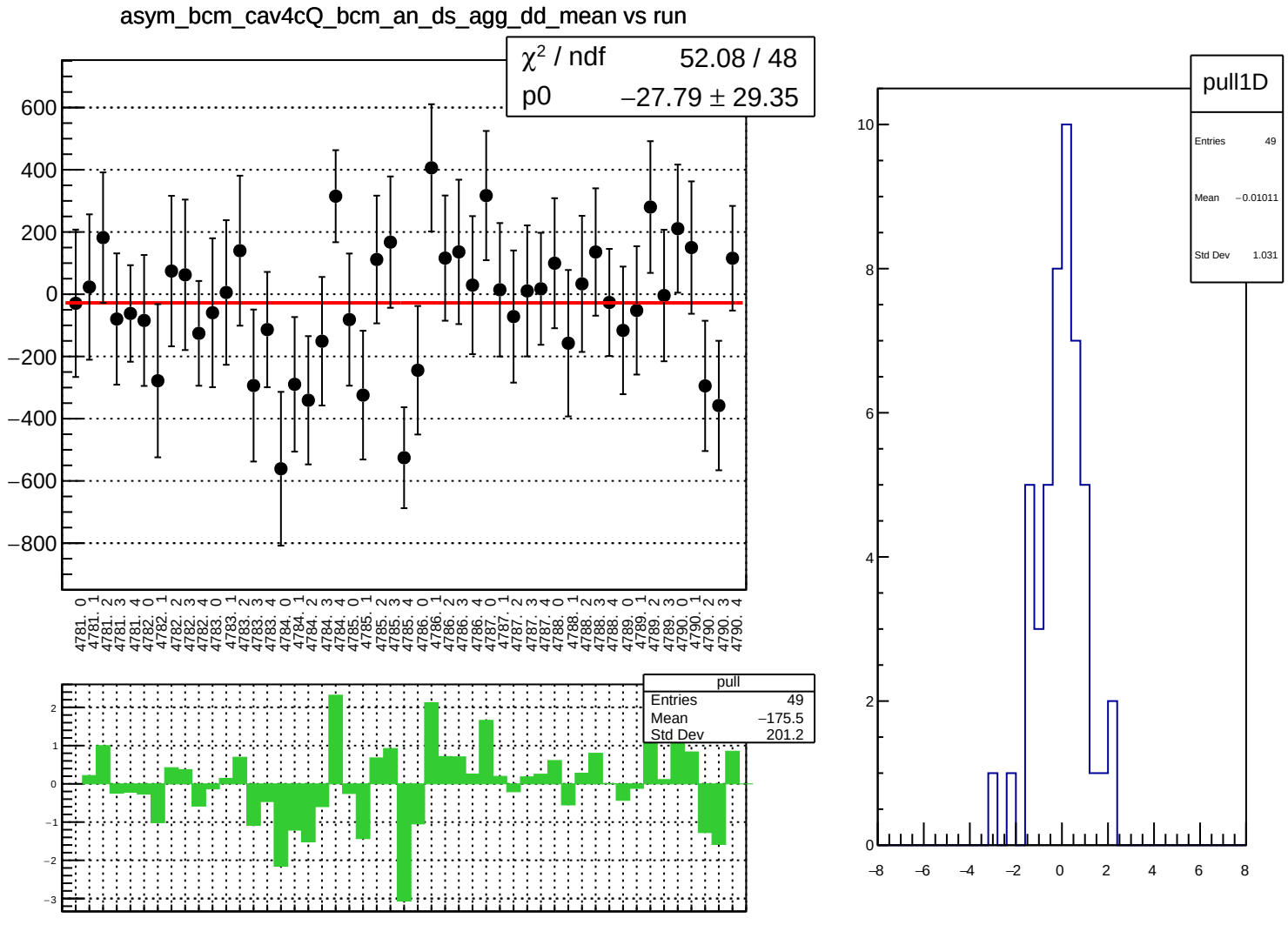

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 8293 / 48
p0 238.7 ± 0.2413
280
270
260
250
240
230
220
210
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

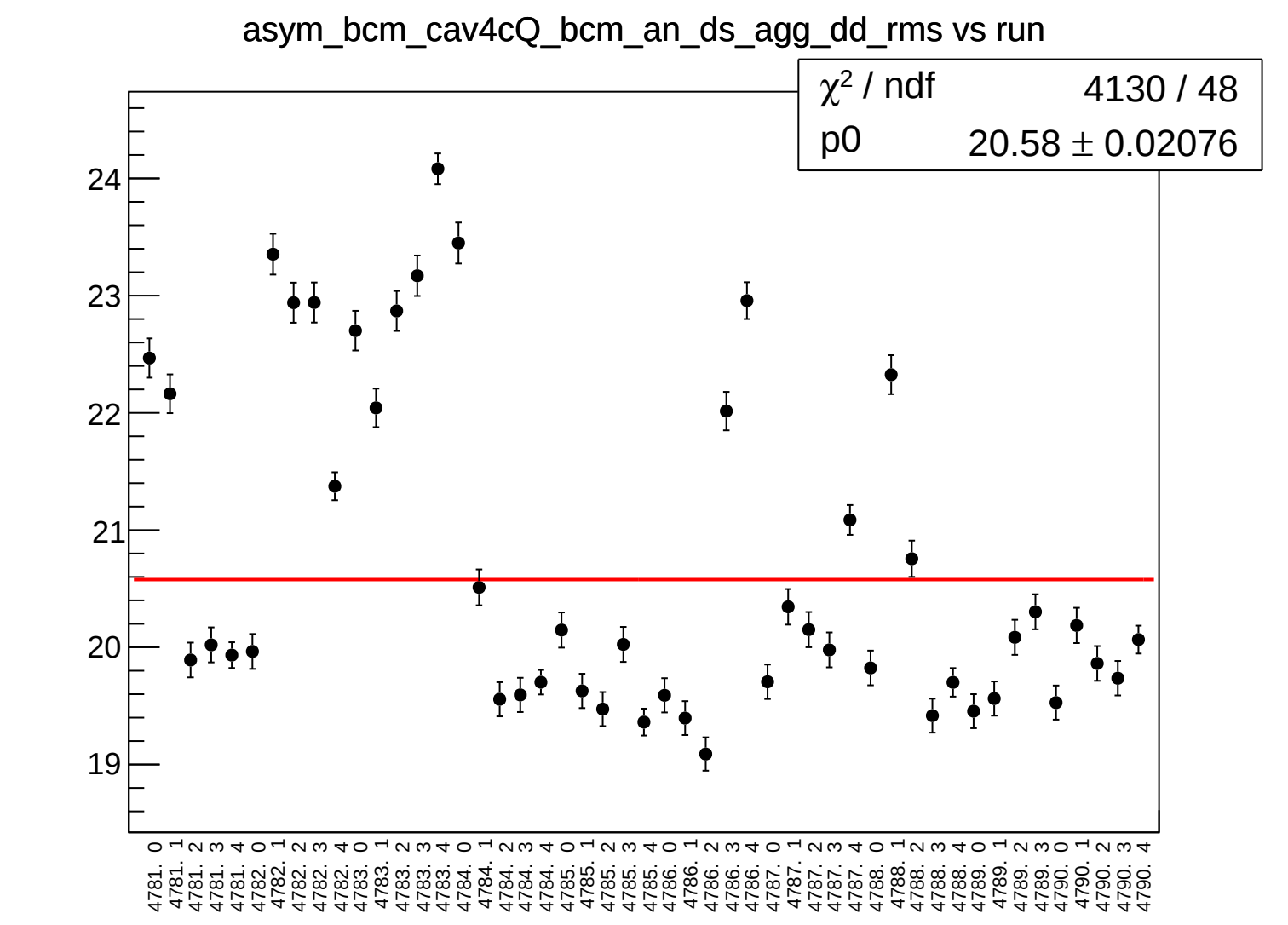

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 35.08 / 48
p0 −31.41 ± 28.31
600
400
200
0
−200
−400
−600
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −1.878
Std Dev 23.96
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 49
Mean −0.02438
Std Dev 0.8458
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

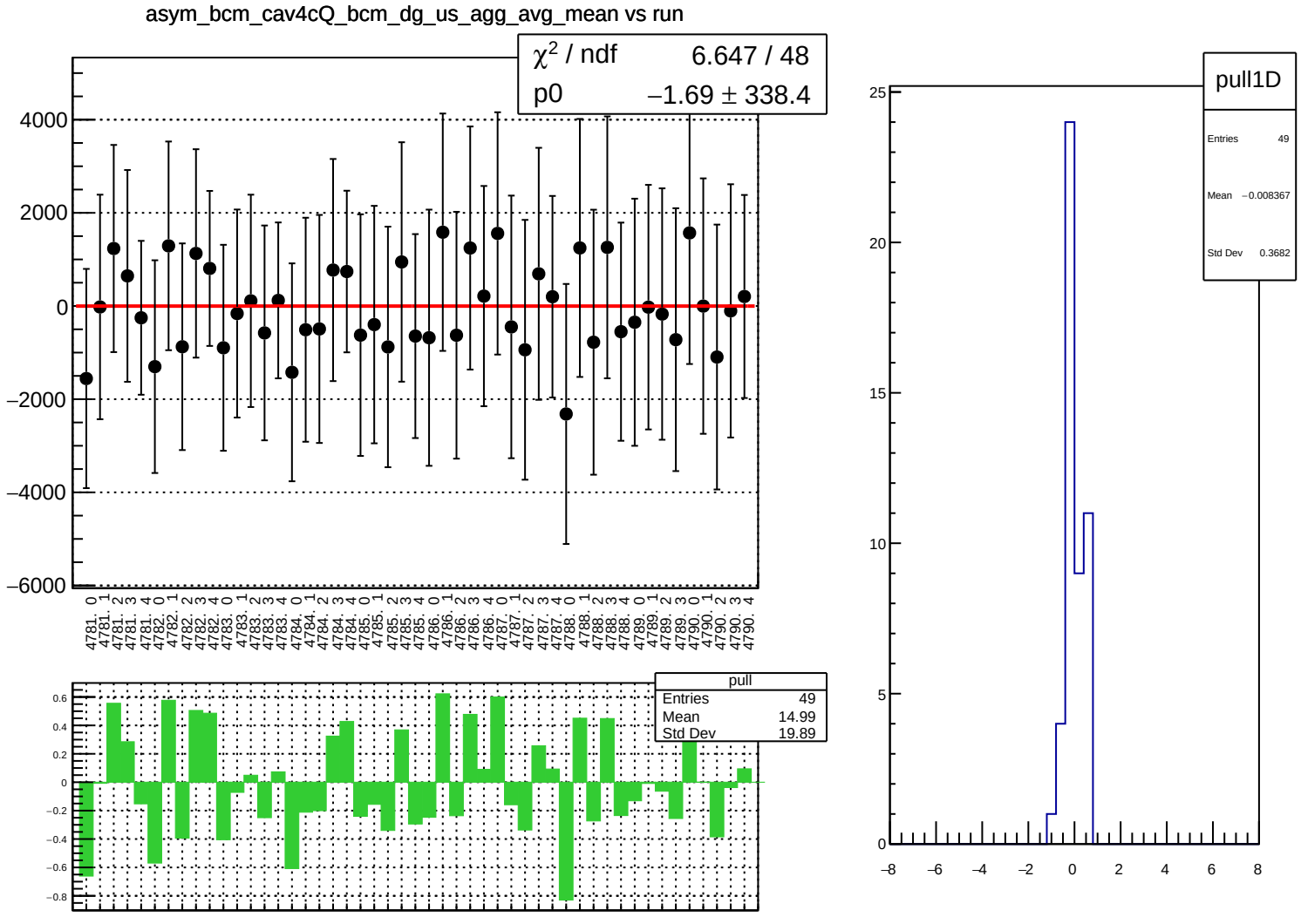

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 488.2 / 48
p0 19.89 ± 0.02002
21
20.5
20
19.5
19
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

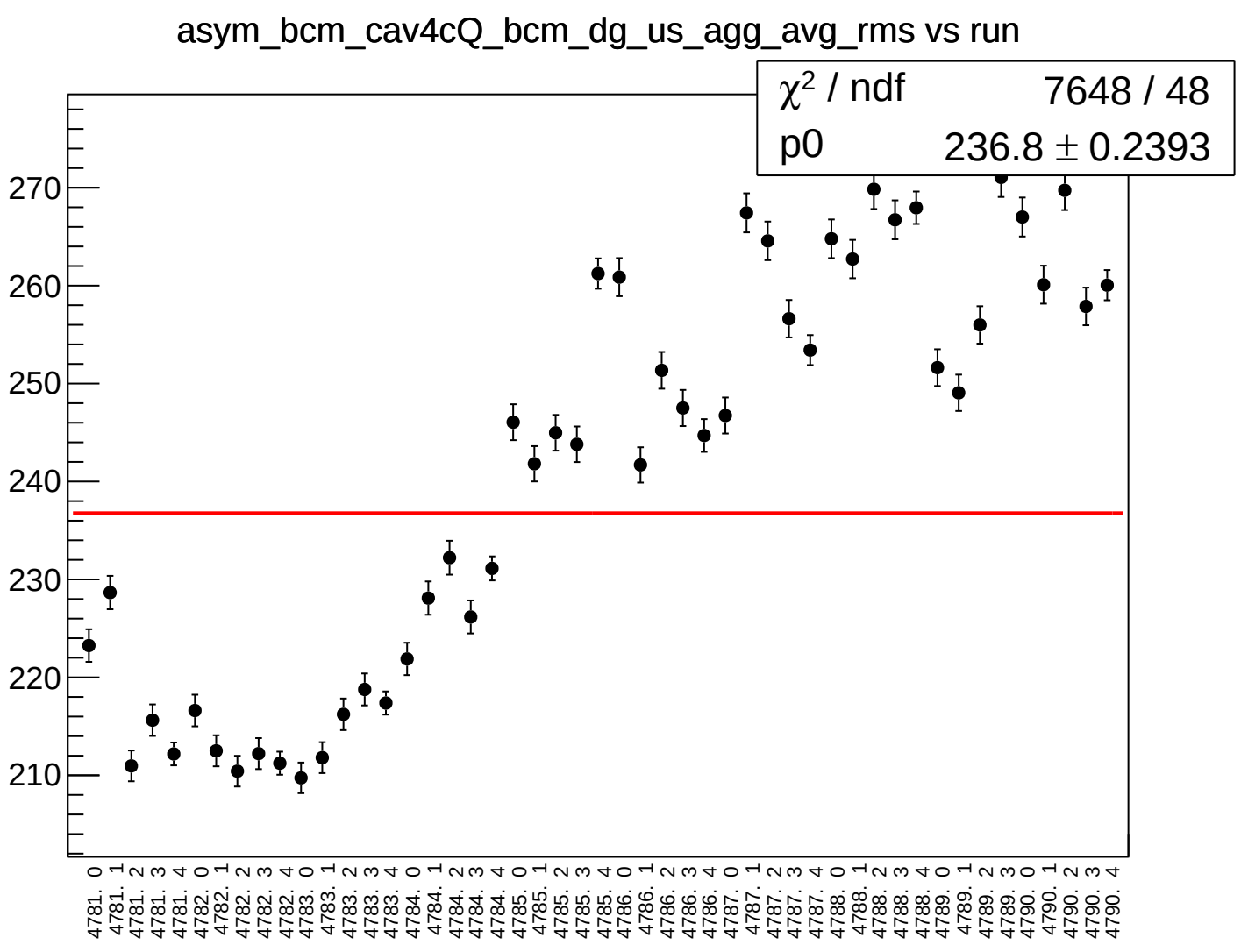

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 6.646 / 48
p0 22.88 ± 341.5
4000
2000
0
−2000
−4000
−6000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 16.64
Std Dev 24.88
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 49
Mean −0.008131
Std Dev 0.3682
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

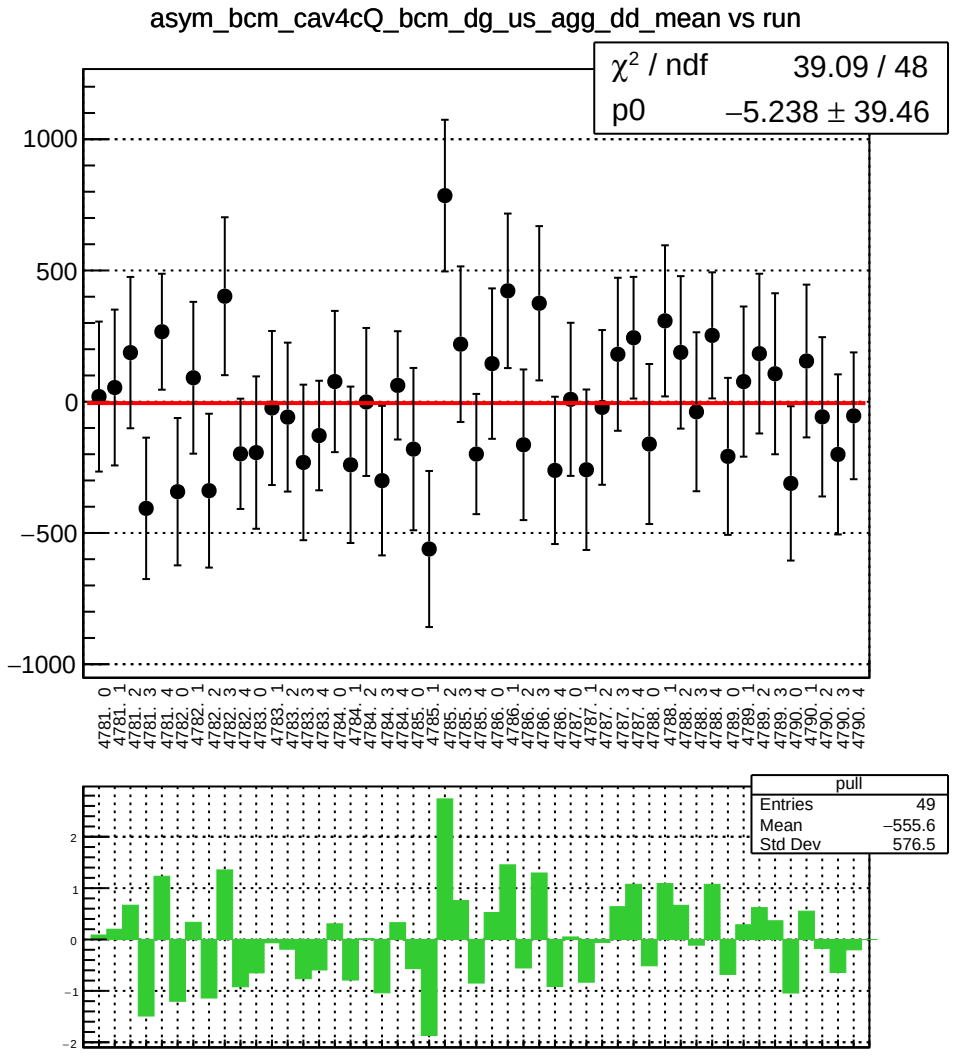

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 8323 / 48
p0 238.9 ± 0.2415
280
270
260
250
240
230
220
210
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

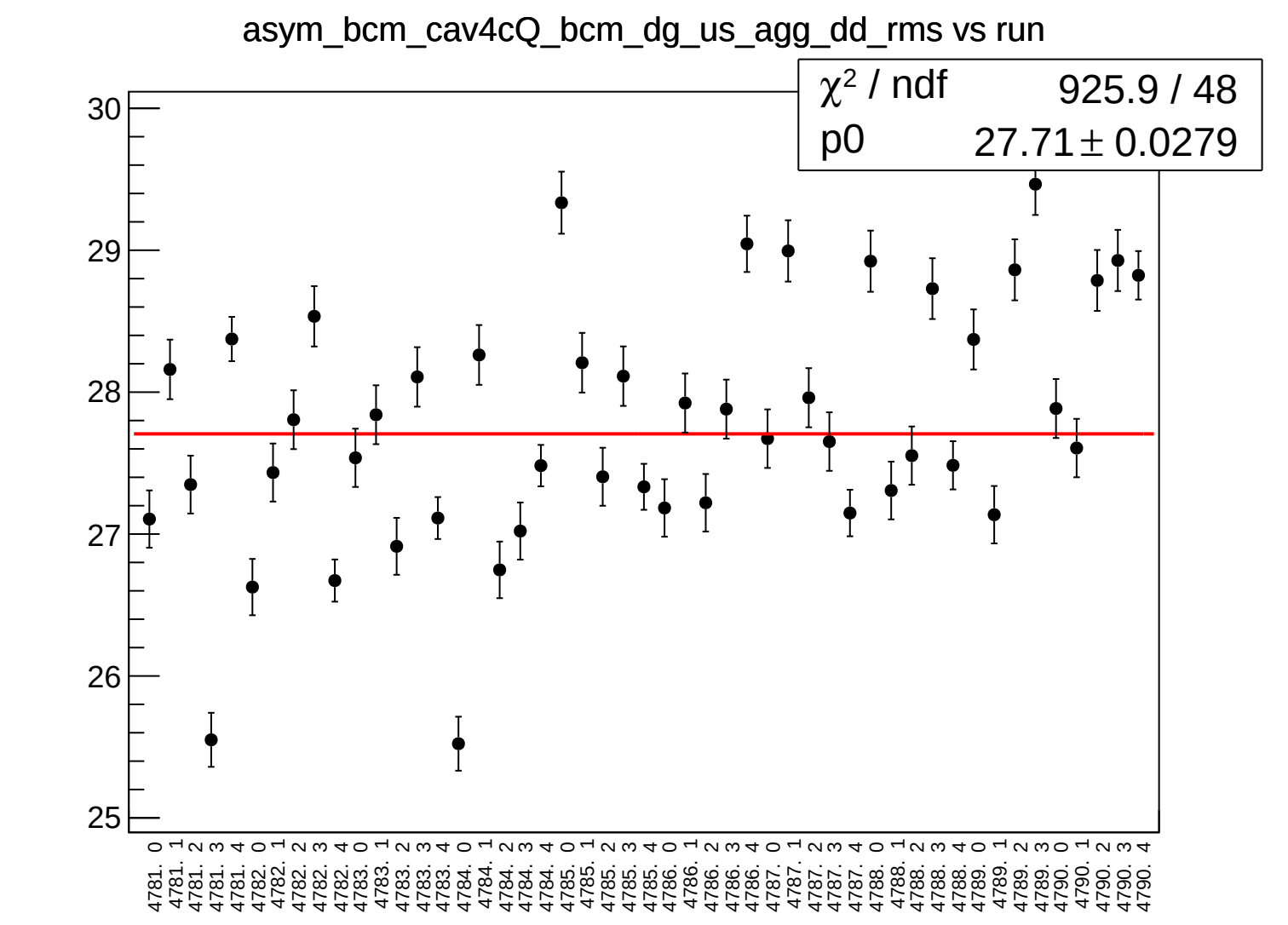

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 52.08 / 48
p0 −27.79 ± 29.35
pull
Entries 49
Mean −175.5
Std Dev 201.2
pull1D
Entries 49
Mean −0.01011
Std Dev 1.031

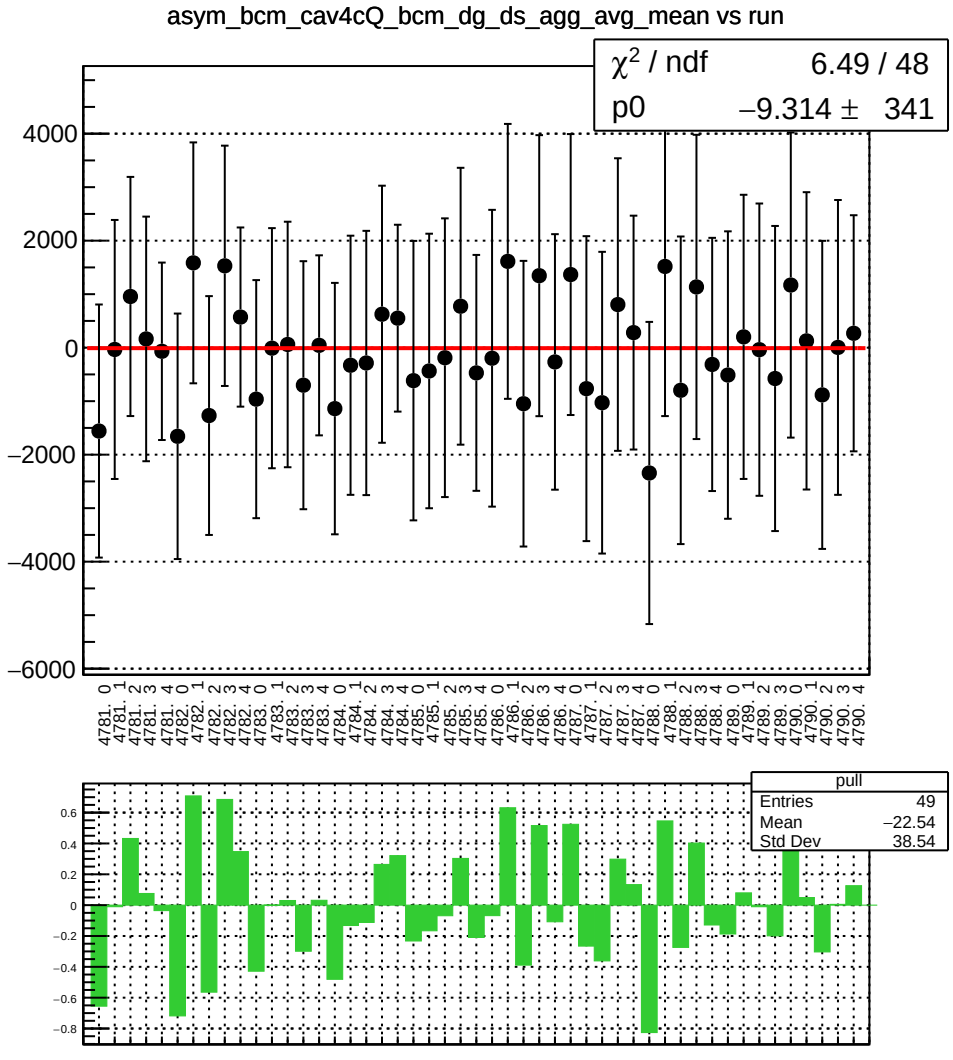

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4130 / 48
p0 20.58 ± 0.02076
24
23
22
21
20
19
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

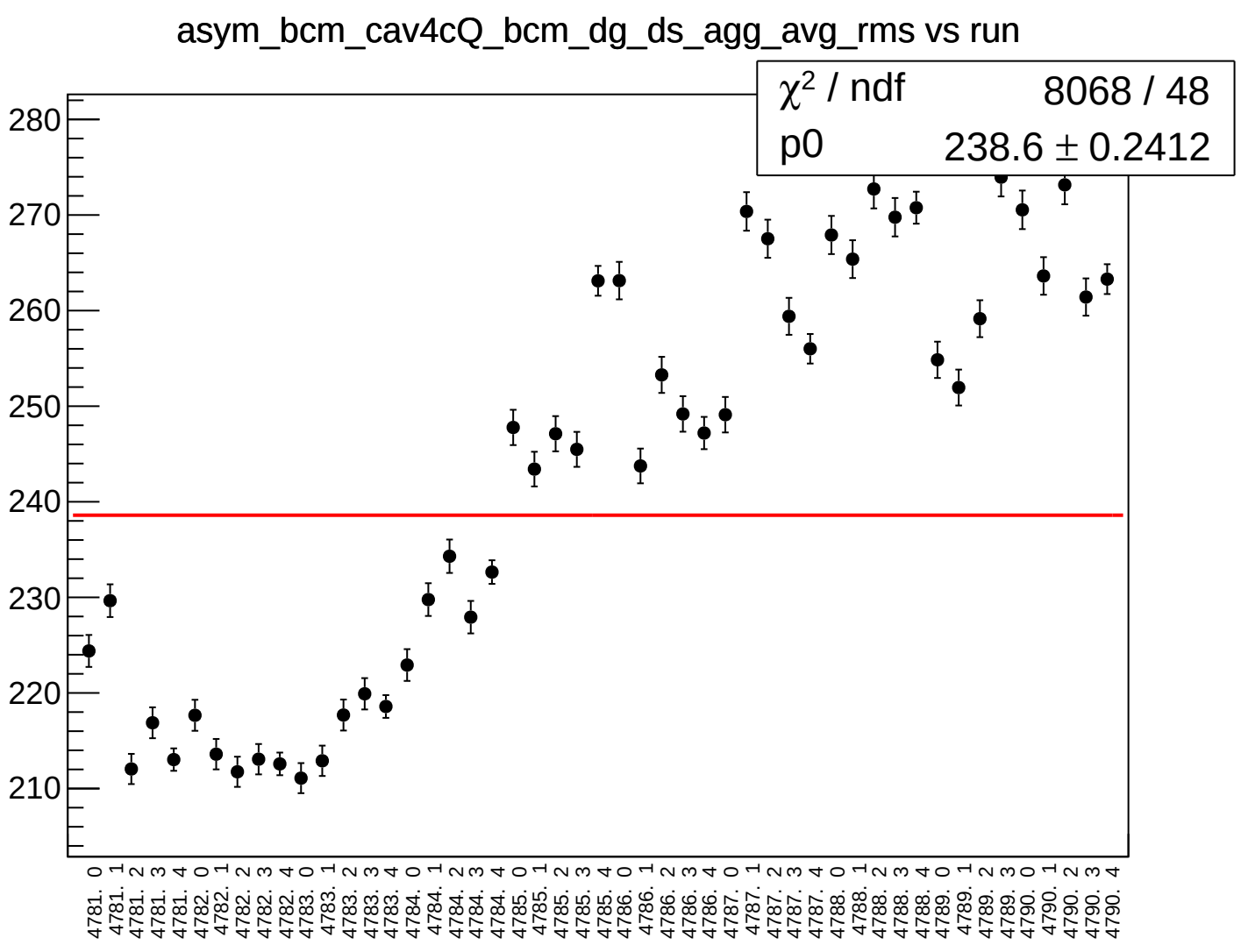

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 6.647 / 48
p0 −1.69 ± 338.4
4000
2000
0
−2000
−4000
−6000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 14.99
Std Dev 19.89
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 49
Mean −0.008367
Std Dev 0.3682
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 7648 / 48
p0 236.8 ± 0.2393
270
260
250
240
230
220
210
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 39.09 / 48
p0 −5.238 ± 39.46
1000
500
0
−500
−1000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −555.6
Std Dev 576.5
2
1
0
−1
−2
pull1D
Entries 49
Mean −0.002564
Std Dev 0.8932
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 925.9 / 48
p0 27.71 ± 0.0279
30
29
28
27
26
25
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 6.49 / 48
p0 −9.314 ± 341
4000
2000
0
−2000
−4000
−6000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −22.54
Std Dev 38.54
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 49
Mean −0.006279
Std Dev 0.3639
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 8068 / 48
p0 238.6 ± 0.2412
280
270
260
250
240
230
220
210
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
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4788. 2
4788. 3
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4789. 2
4789. 3
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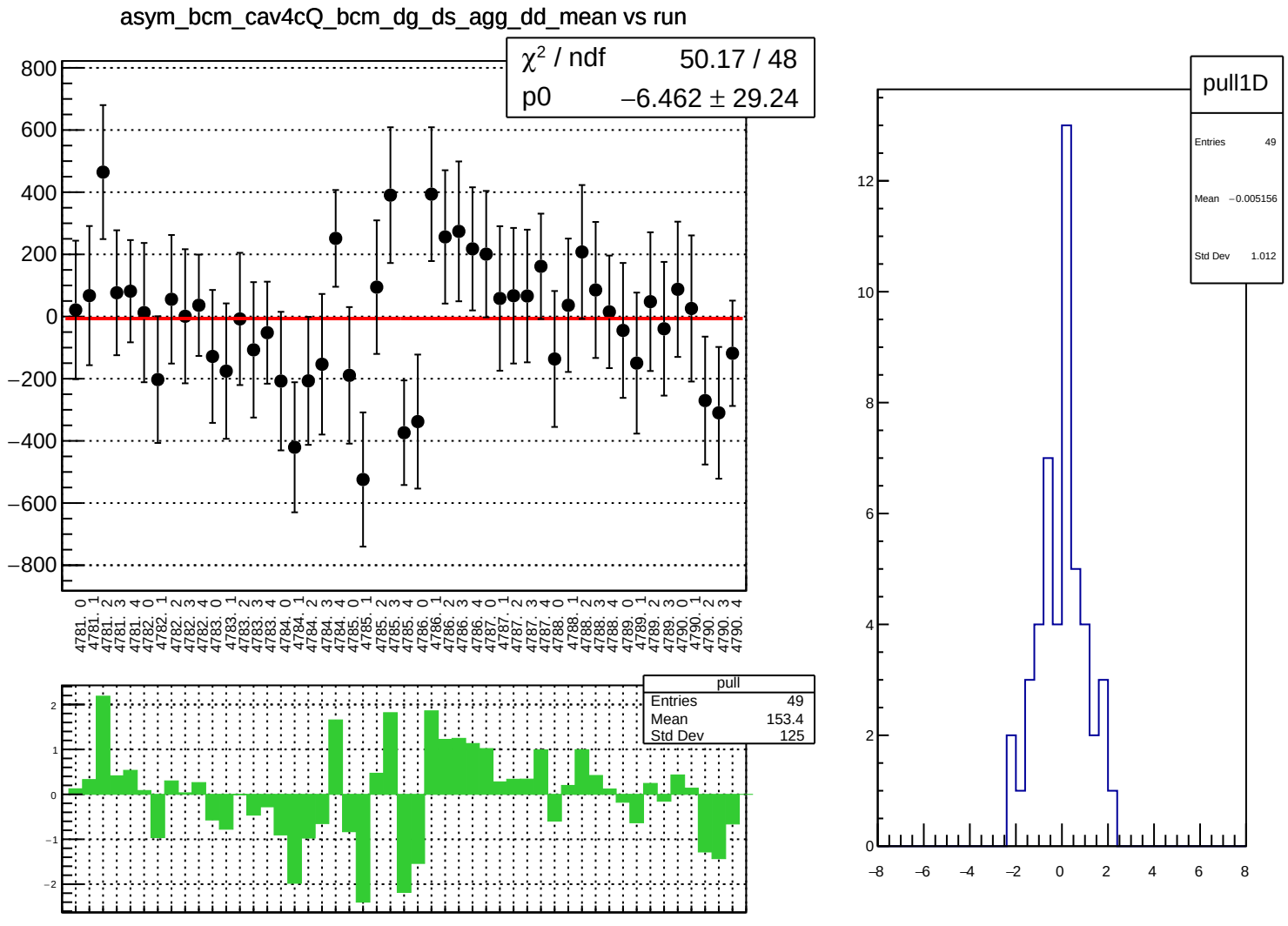
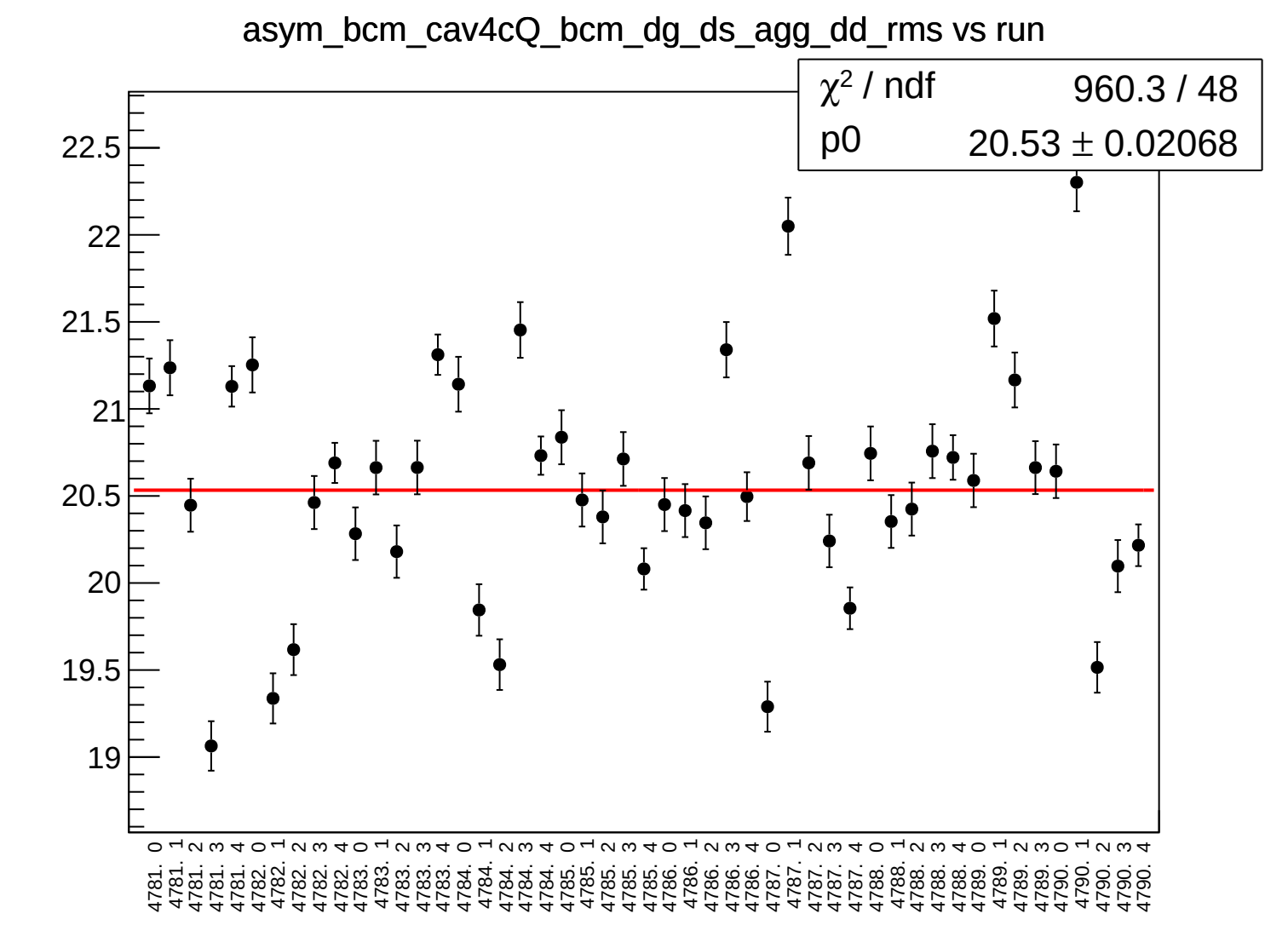
4790. 1
4790. 2
4790. 3
4790. 4


asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 50.17 / 48
p0 −6.462 ± 29.24
pull
Entries 49
Mean 153.4
Std Dev 125
pull1D
Entries 49
Mean −0.005156
Std Dev 1.012


asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 960.3 / 48
p0 20.53 ± 0.02068
22.5
22
21.5
21
20.5
20
19.5
19
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
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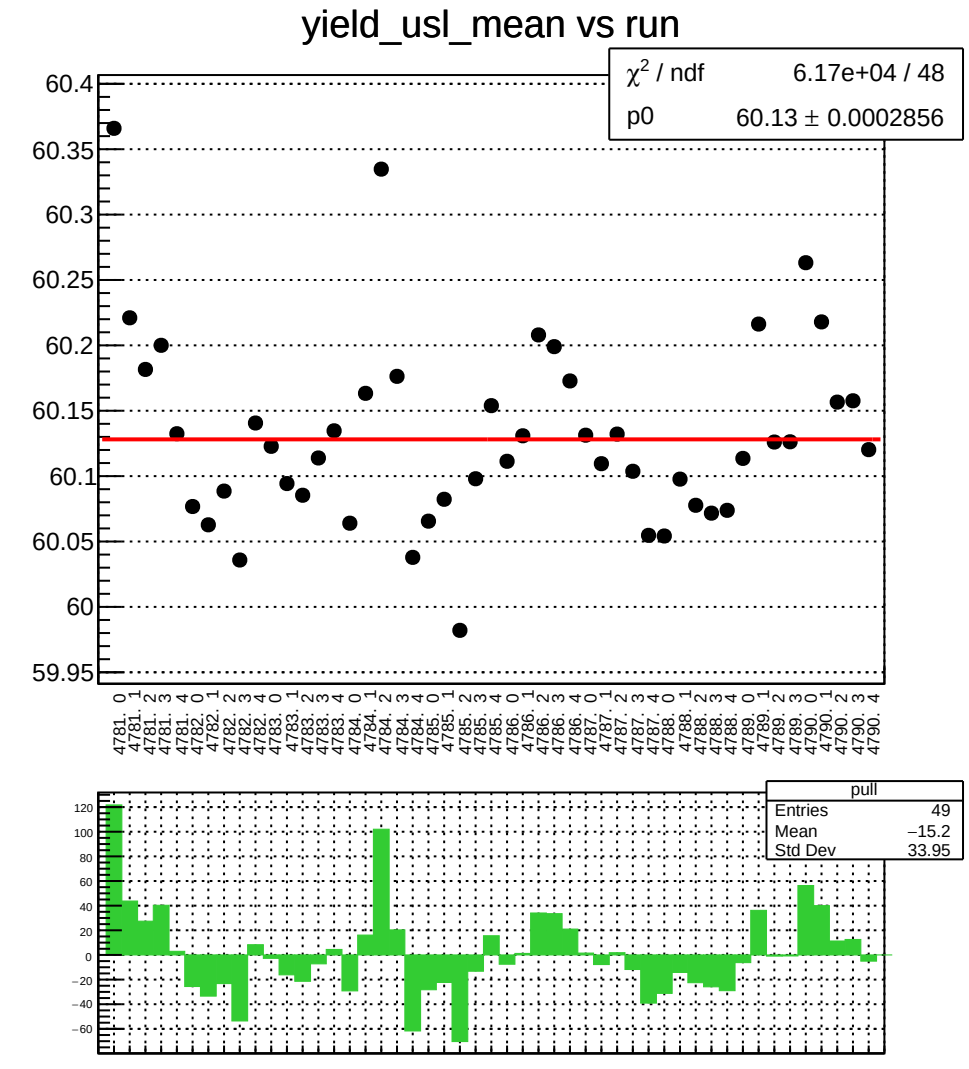
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


yield_usl_mean vs run
χ² / ndf 6.17e+04 / 48
p0 60.13 ± 0.0002856
60.4
60.35
60.3
60.25
60.2
60.15
60.1
60.05
60
59.95
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
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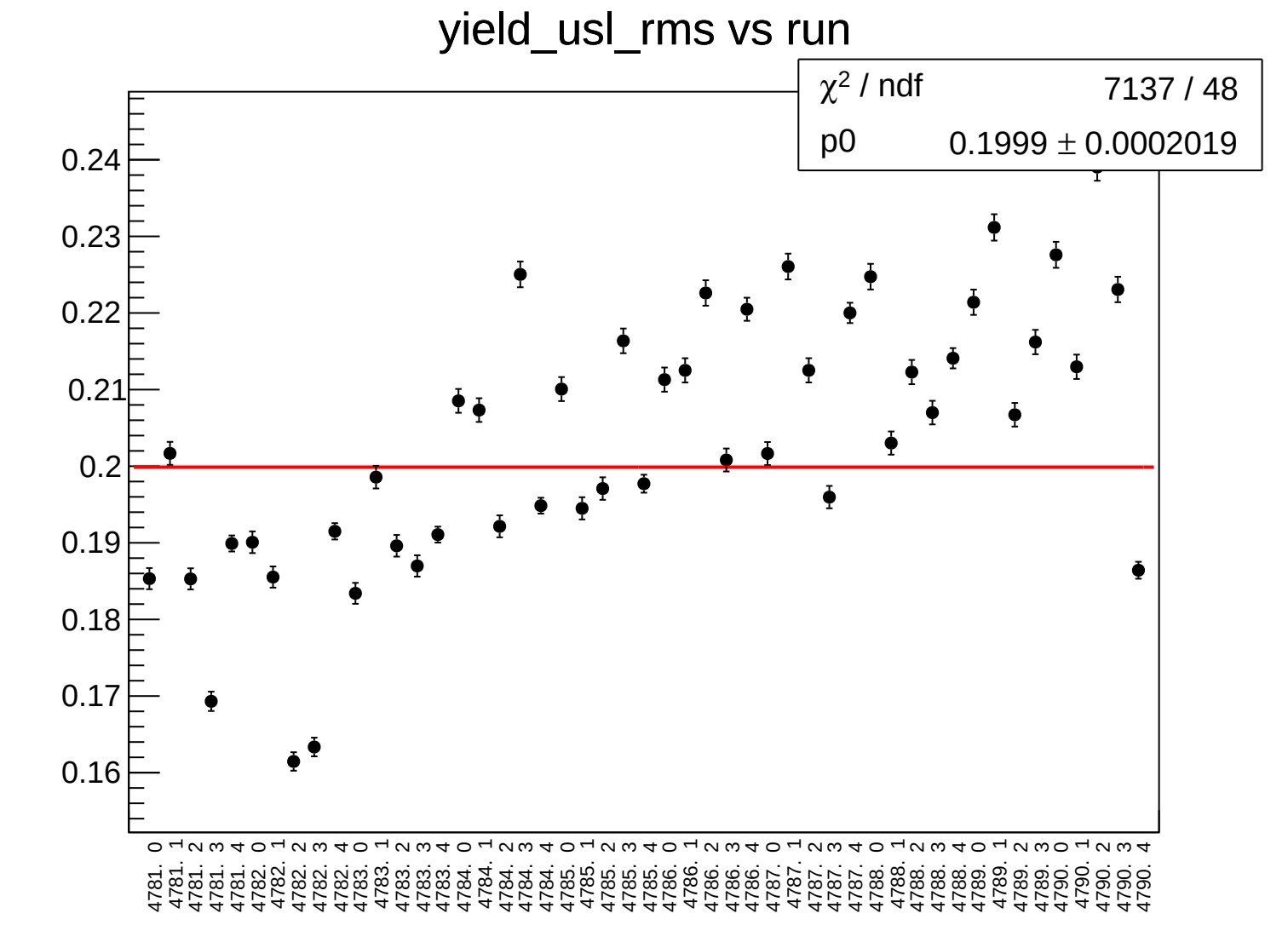
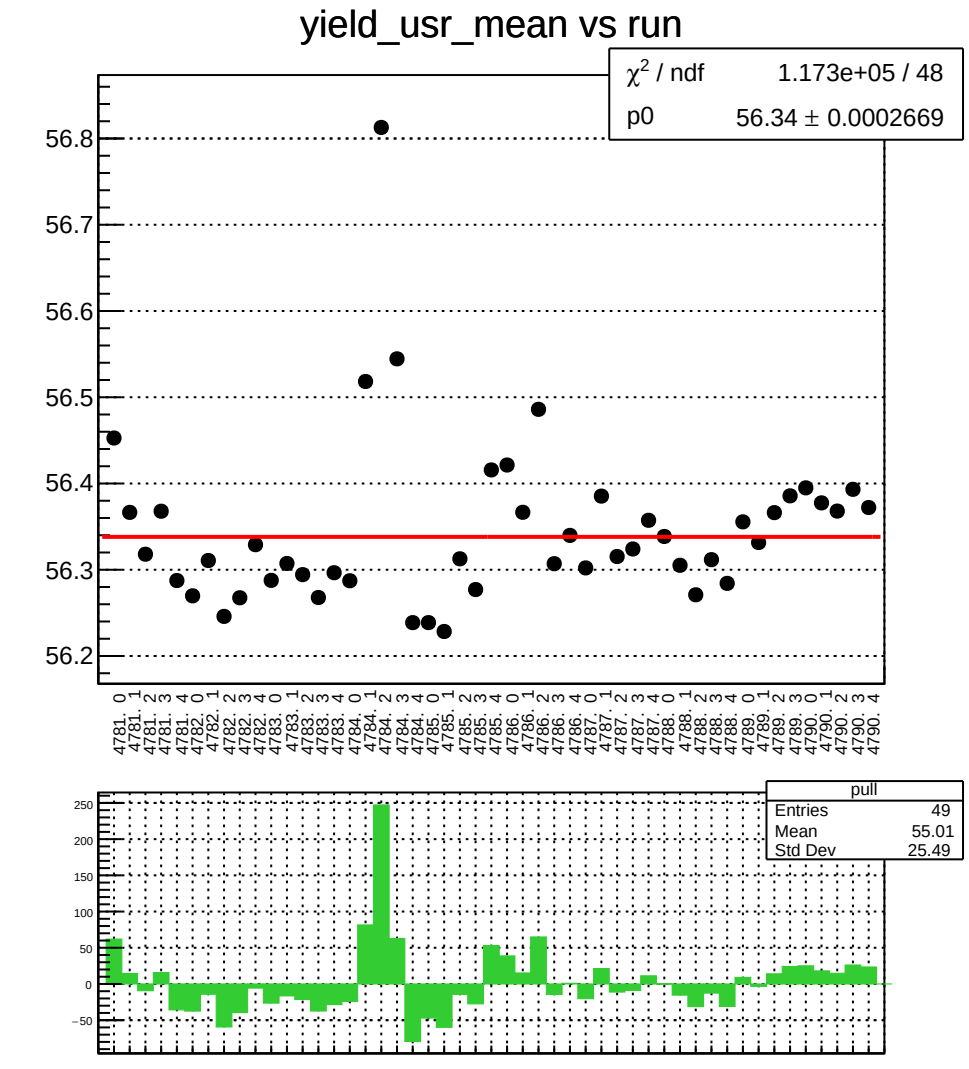
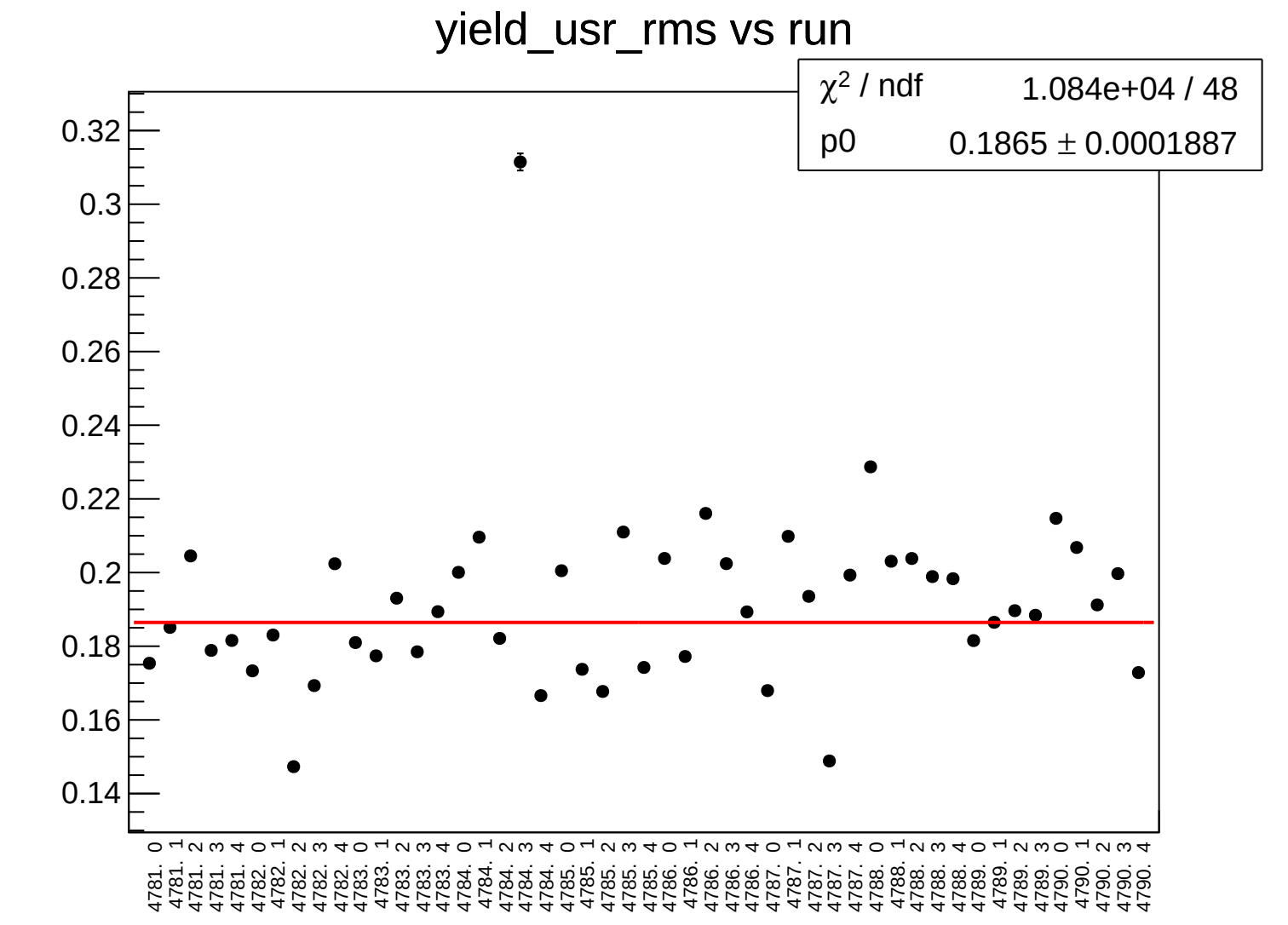
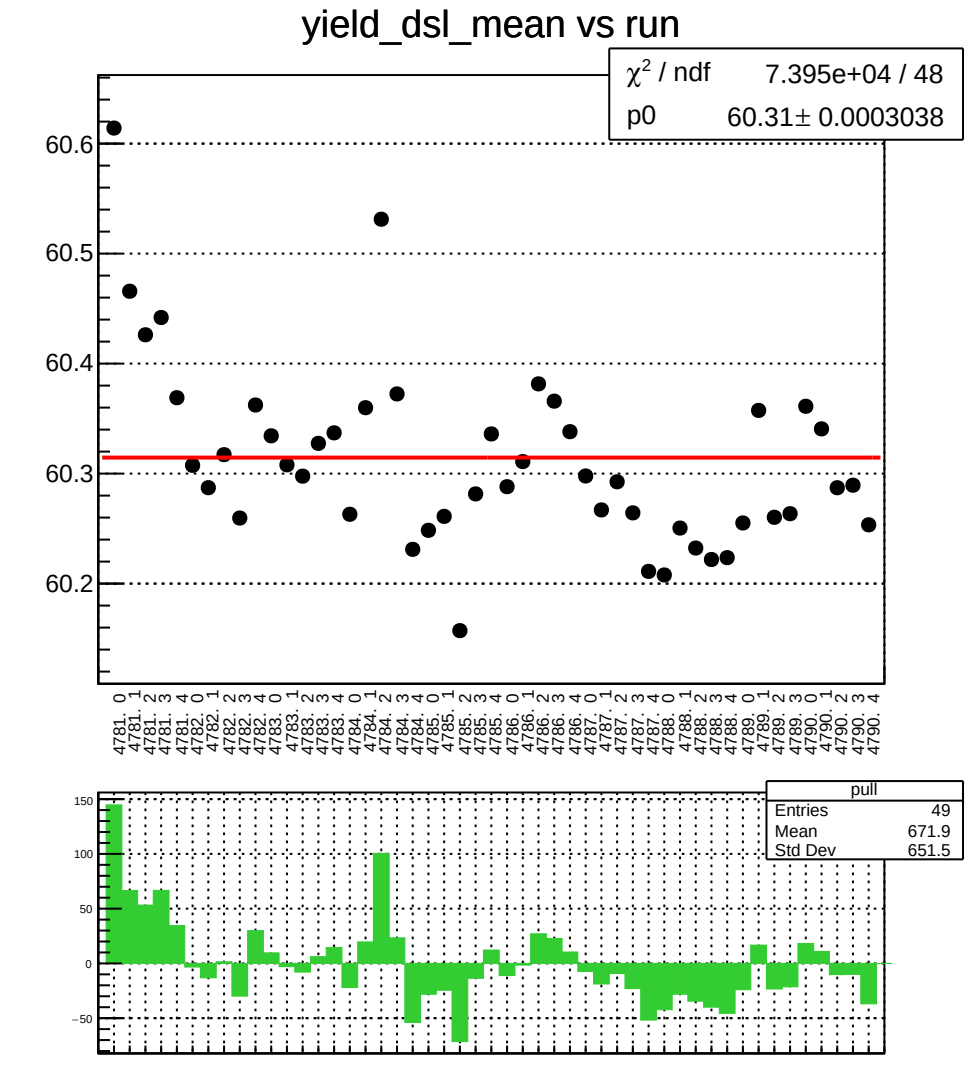
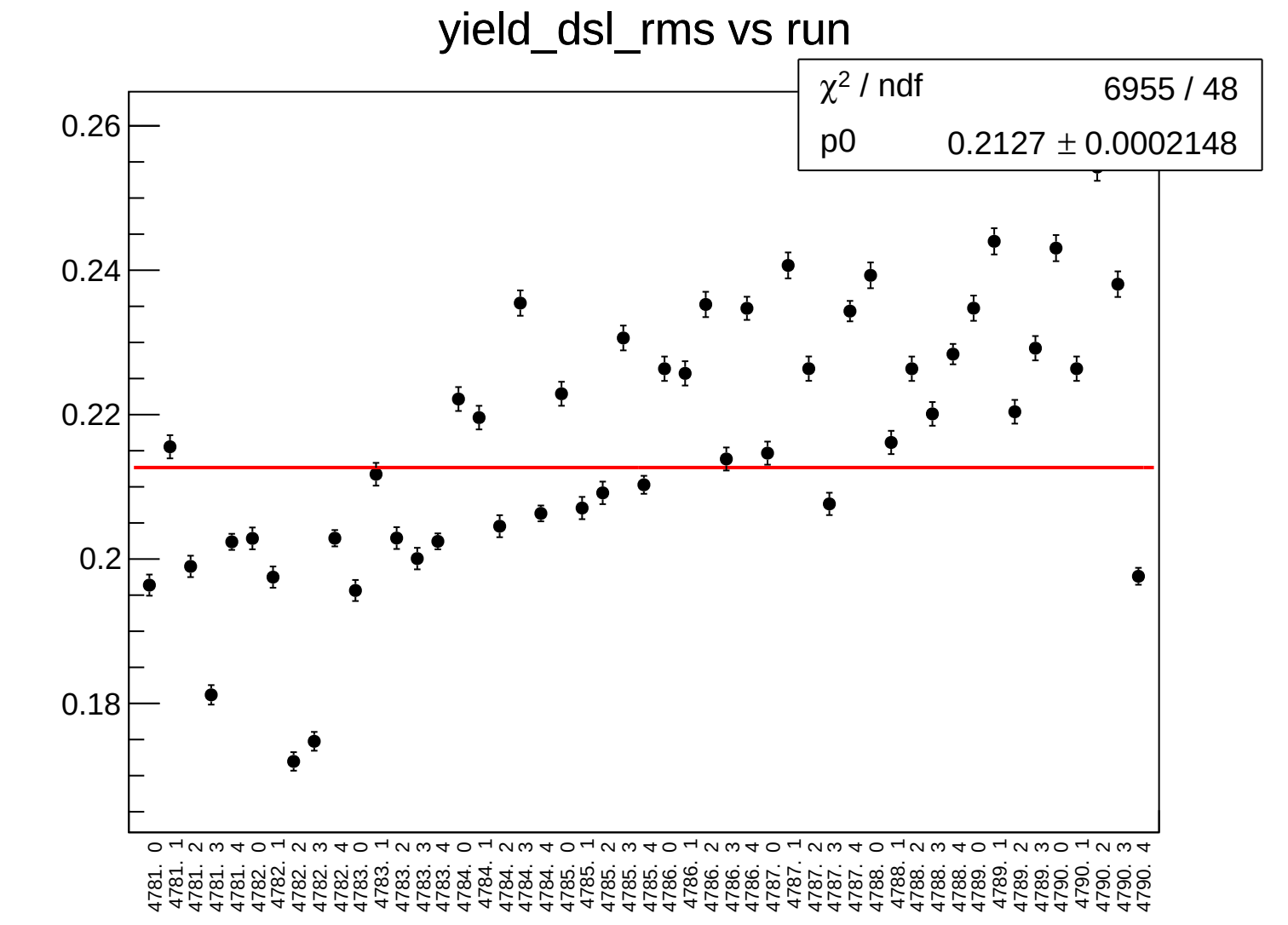
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4798. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −15.2
Std Dev 33.95
120
100
80
60
40
20
0
−20
−40
−60
pull1D
Entries 49
Mean −2.03
Std Dev 4.157
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

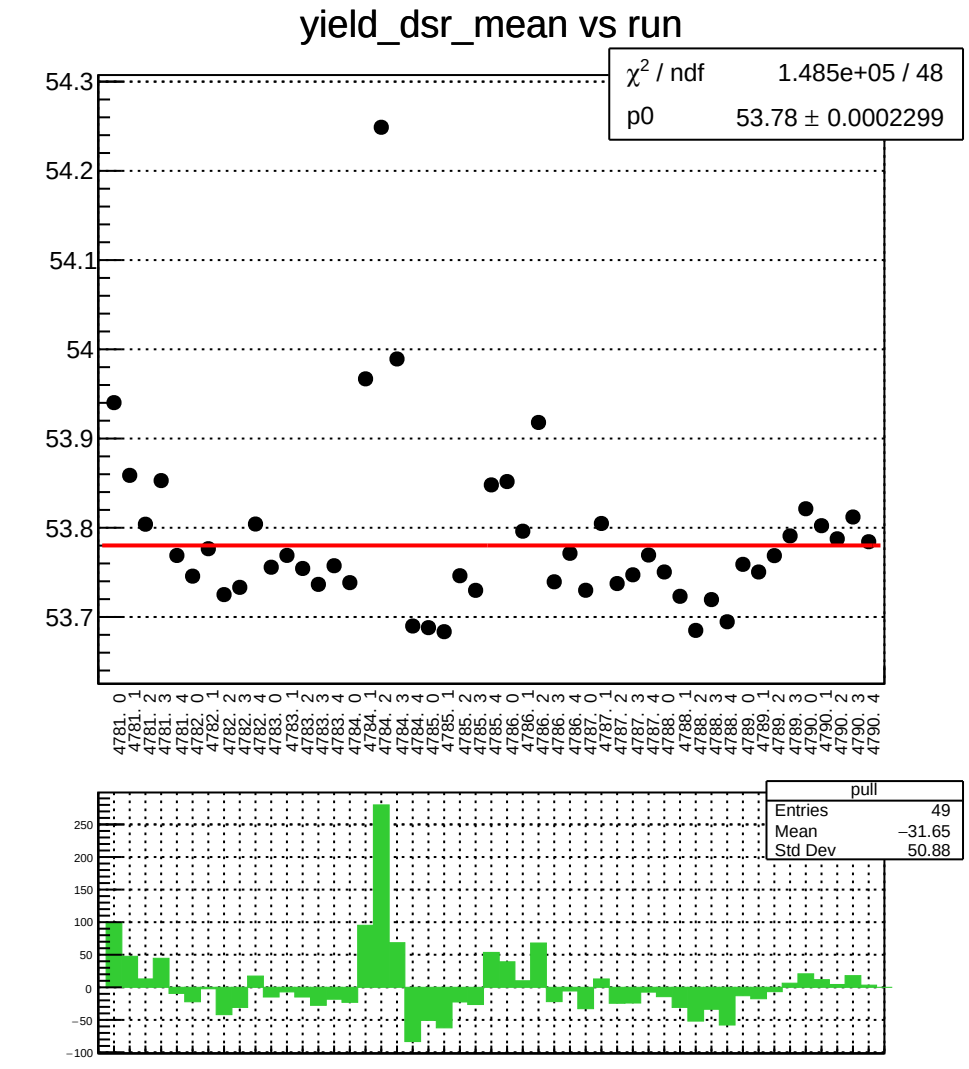

yield_usl_rms vs run
χ² / ndf 7137 / 48
p0 0.1999 ± 0.0002019
0.24
0.23
0.22
0.21
0.2
0.19
0.18
0.17
0.16
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

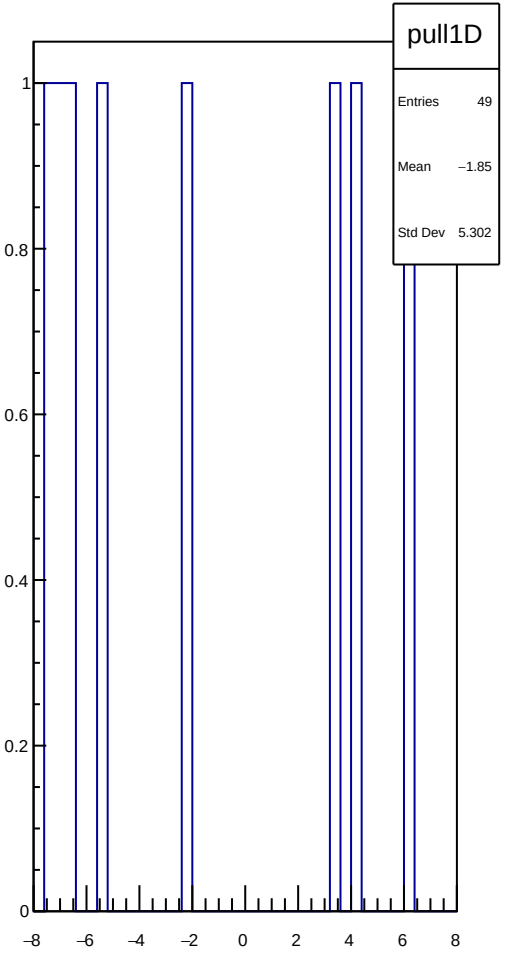

yield_usr_mean vs run
χ² / ndf 1.173e+05 / 48
p0 56.34 ± 0.0002669
56.8
56.7
56.6
56.5
56.4
56.3
56.2
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 55.01
Std Dev 25.49
250
200
150
100
50
0
−50
pull1D
Entries 49
Mean −1.982
Std Dev 2.678
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

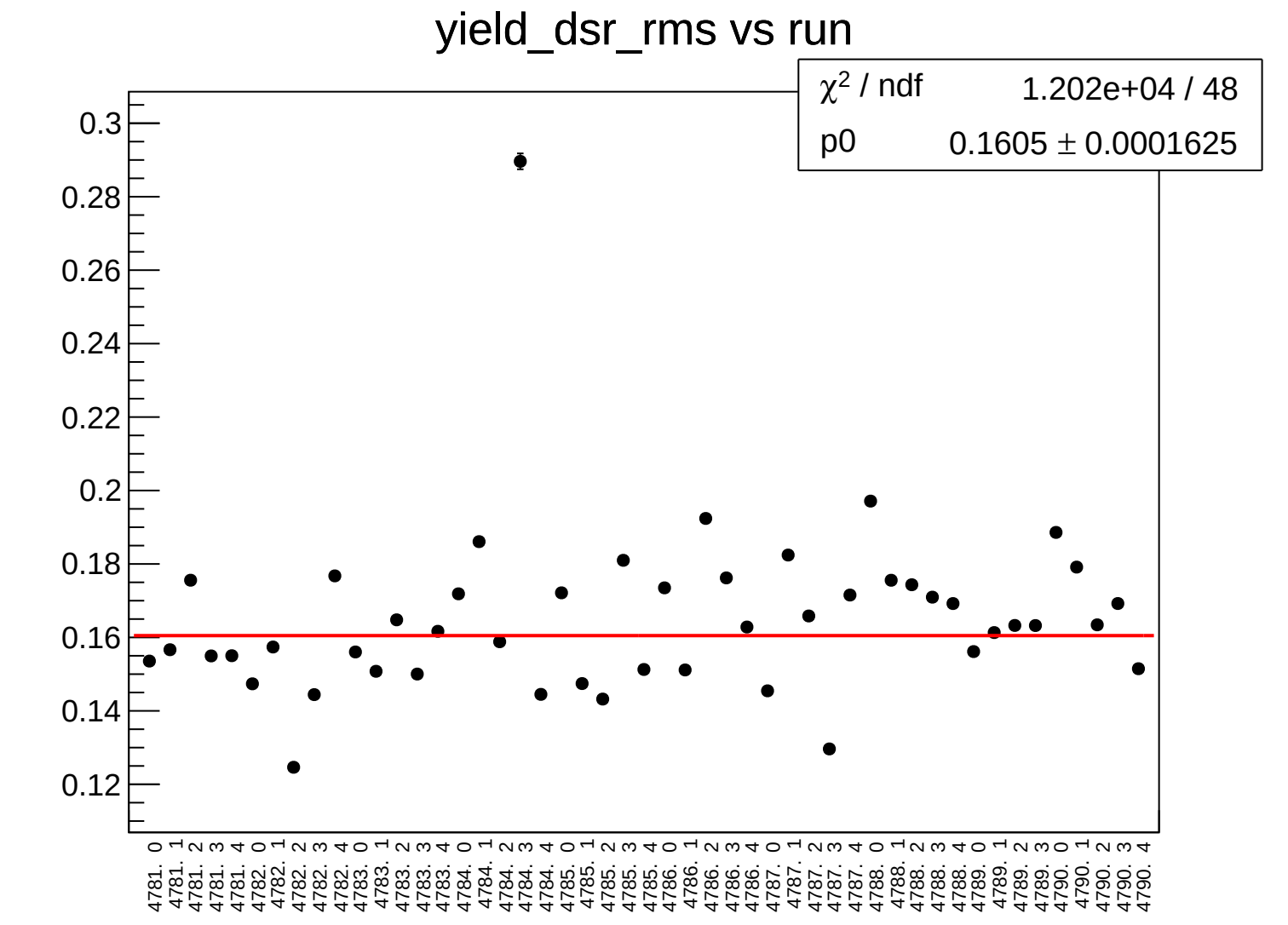

yield_usr_rms vs run
χ^2 / ndf 1.084e+04 / 48
p0 0.1865 ± 0.0001887
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

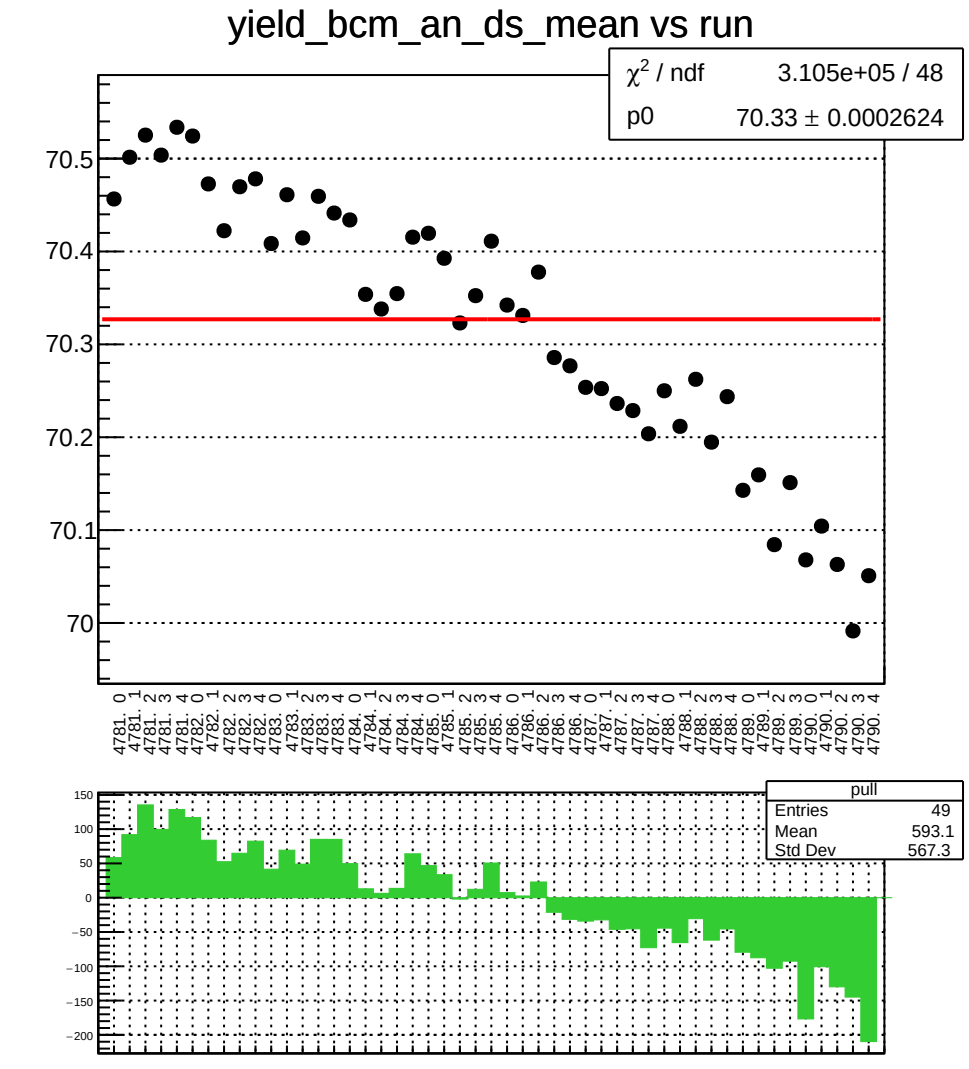

yield_dsl_mean vs run
χ² / ndf 7.395e+04 / 48
p0 60.31± 0.0003038
60.6
60.5
60.4
60.3
60.2
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 671.9
Std Dev 651.5
150
100
50
0
−50
pull1D
Entries 49
Mean −2.208
Std Dev 4.54
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

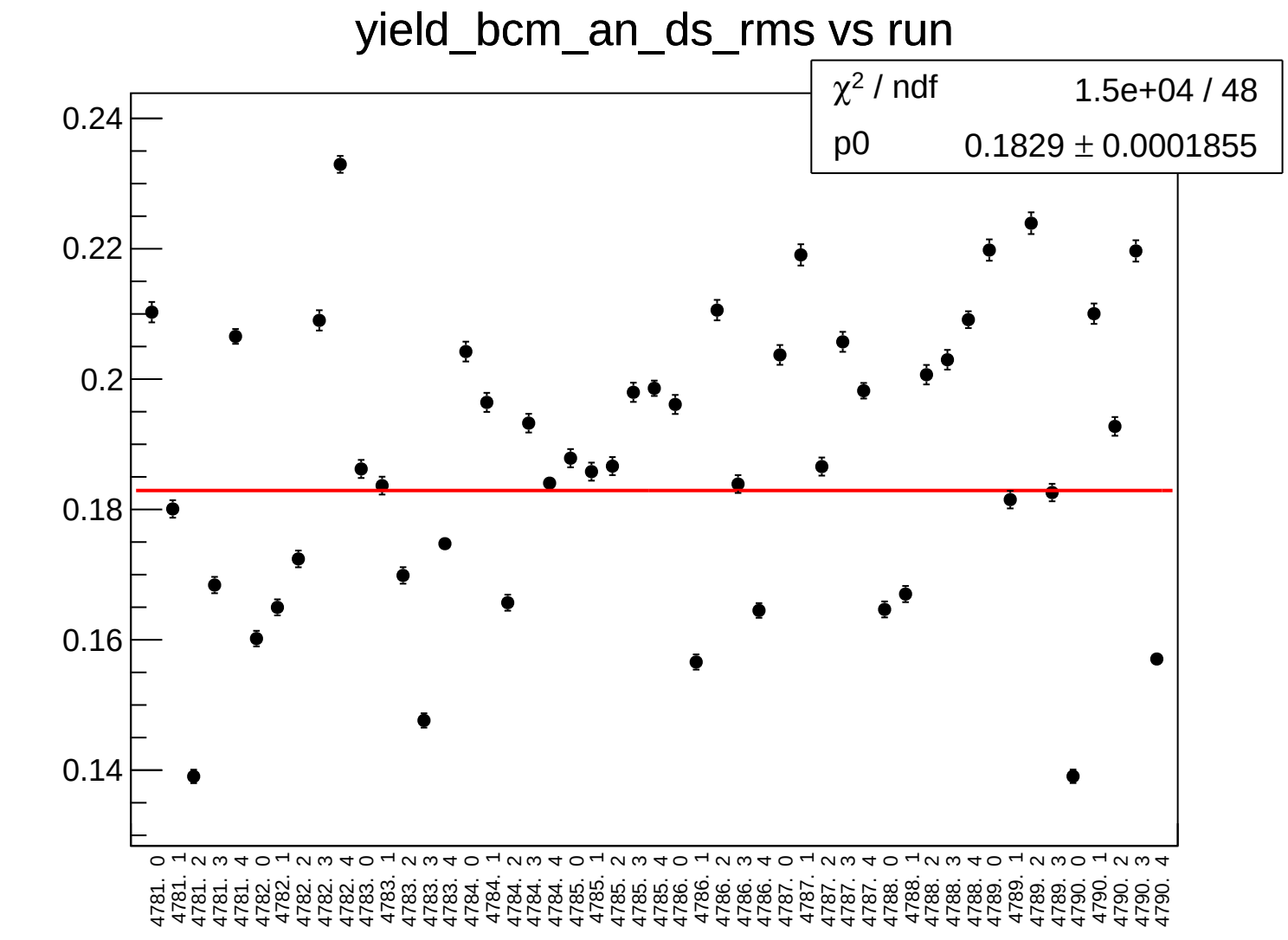

yield_dsl_rms vs run
χ² / ndf 6955 / 48
p0 0.2127 ± 0.0002148
0.26
0.24
0.22
0.2
0.18
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


yield_dsr_mean vs run
χ² / ndf 1.485e+05 / 48
p0 53.78 ± 0.0002299
54.3
54.2
54.1
54
53.9
53.8
53.7
pull
Entries 49
Mean −31.65
Std Dev 50.88
250
200
150
100
50
0
−50
−100


pull1D
Entries 49
Mean −1.85
Std Dev 5.302
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 1.202e+04 / 48
p0 0.1605 ± 0.0001625
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


yield_bcm_an_ds_mean vs run
χ² / ndf 3.105e+05 / 48
p0 70.33 ± 0.0002624
70.5
70.4
70.3
70.2
70.1
70
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 593.1
Std Dev 567.3
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 49
Mean 3.567
Std Dev 3.692
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_an_ds_rms vs run
χ² / ndf 1.5e+04 / 48
p0 0.1829 ± 0.0001855
0.24
0.22
0.2
0.18
0.16
0.14
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
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4784. 1
4784. 2
4784. 3
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4785. 0
4785. 1
4785. 2
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4786. 1
4786. 2
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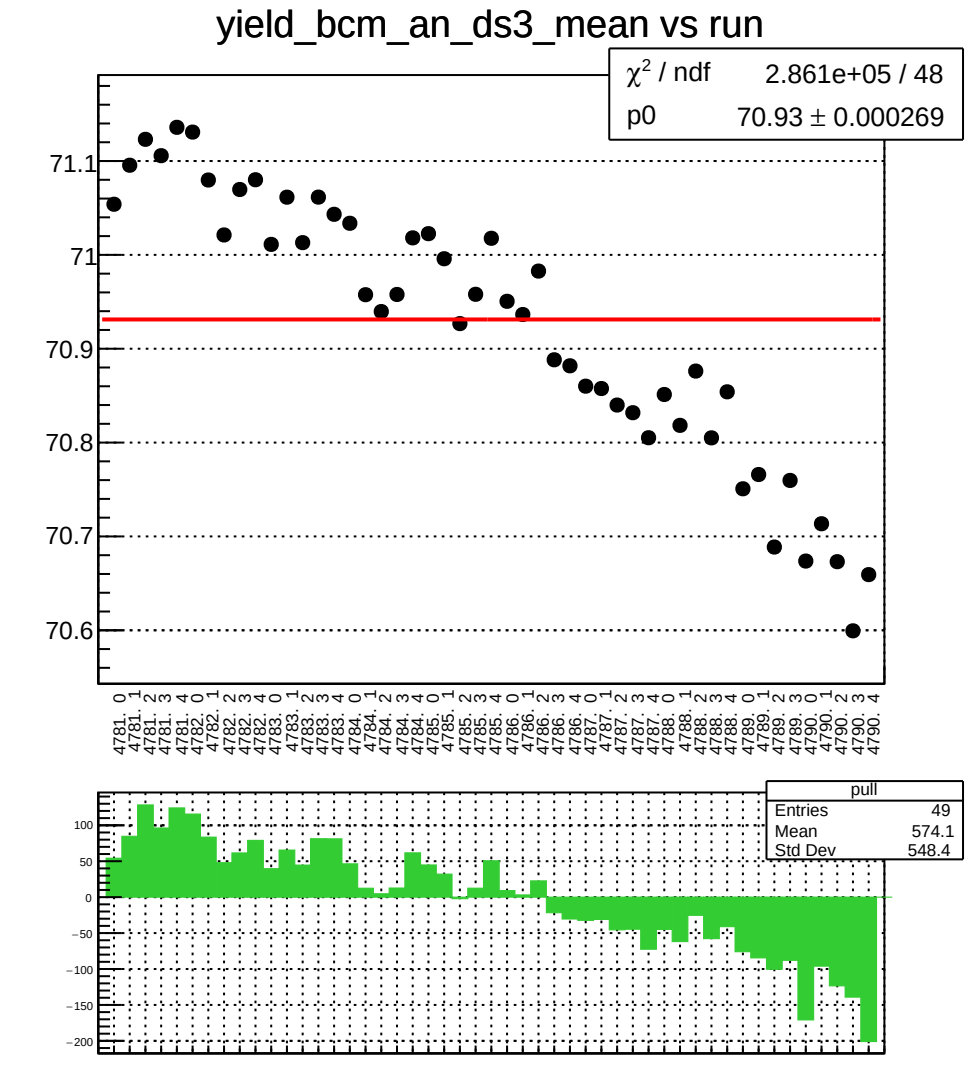
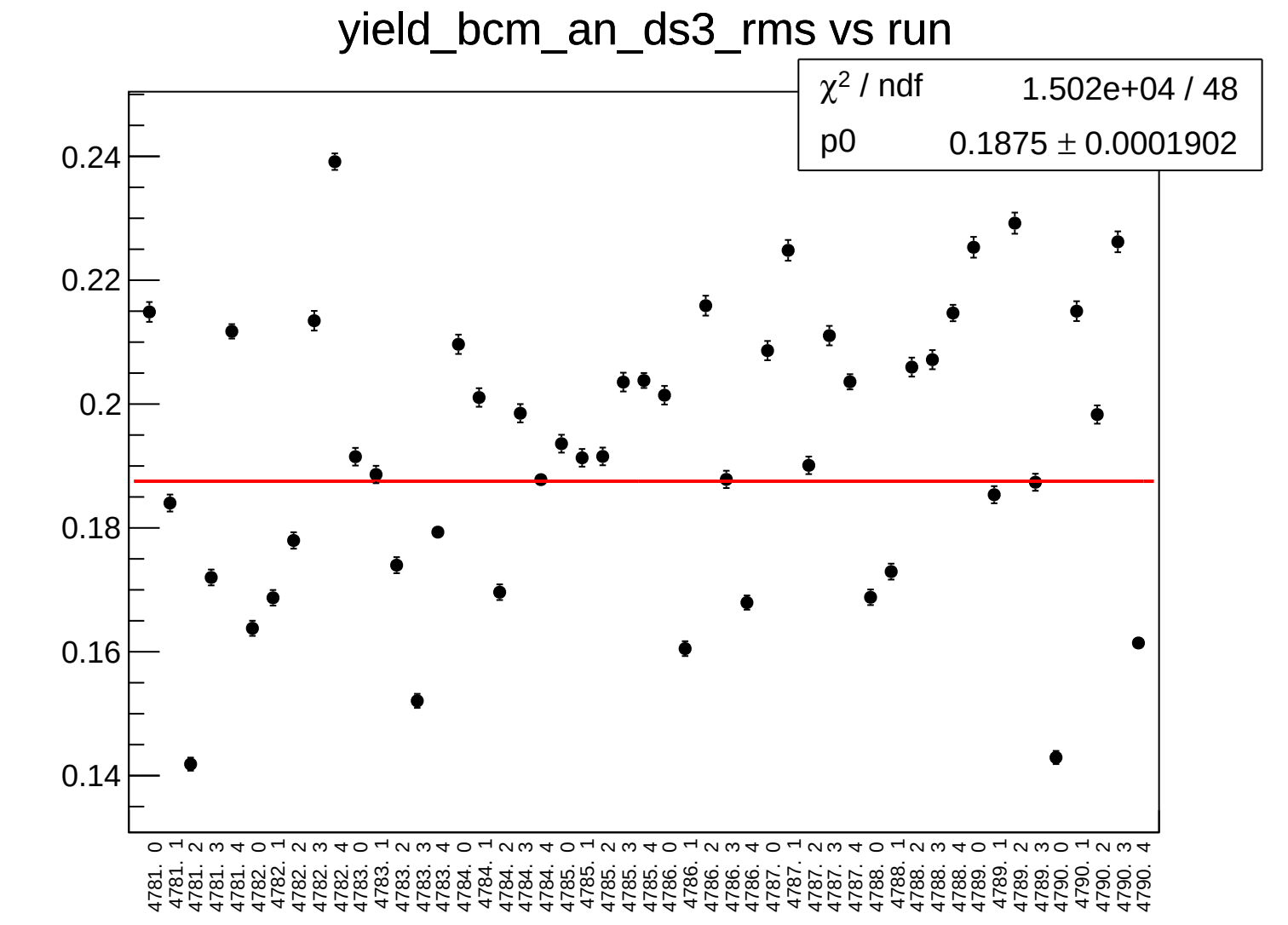
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


yield_bcm_an_ds3_mean vs run
χ² / ndf 2.861e+05 / 48
p0 70.93 ± 0.000269
71.1
71
70.9
70.8
70.7
70.6
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 574.1
Std Dev 548.4
100
50
0
−50
−100
−150
−200
pull1D
Entries 49
Mean 1.881
Std Dev 2.944
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_an_ds3_rms vs run
χ² / ndf 1.502e+04 / 48
p0 0.1875 ± 0.0001902
0.24
0.22
0.2
0.18
0.16
0.14
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
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4787. 0
4787. 1
4787. 2
4787. 3
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4788. 1
4788. 2
4788. 3
4788. 4
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4789. 1
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4790. 1
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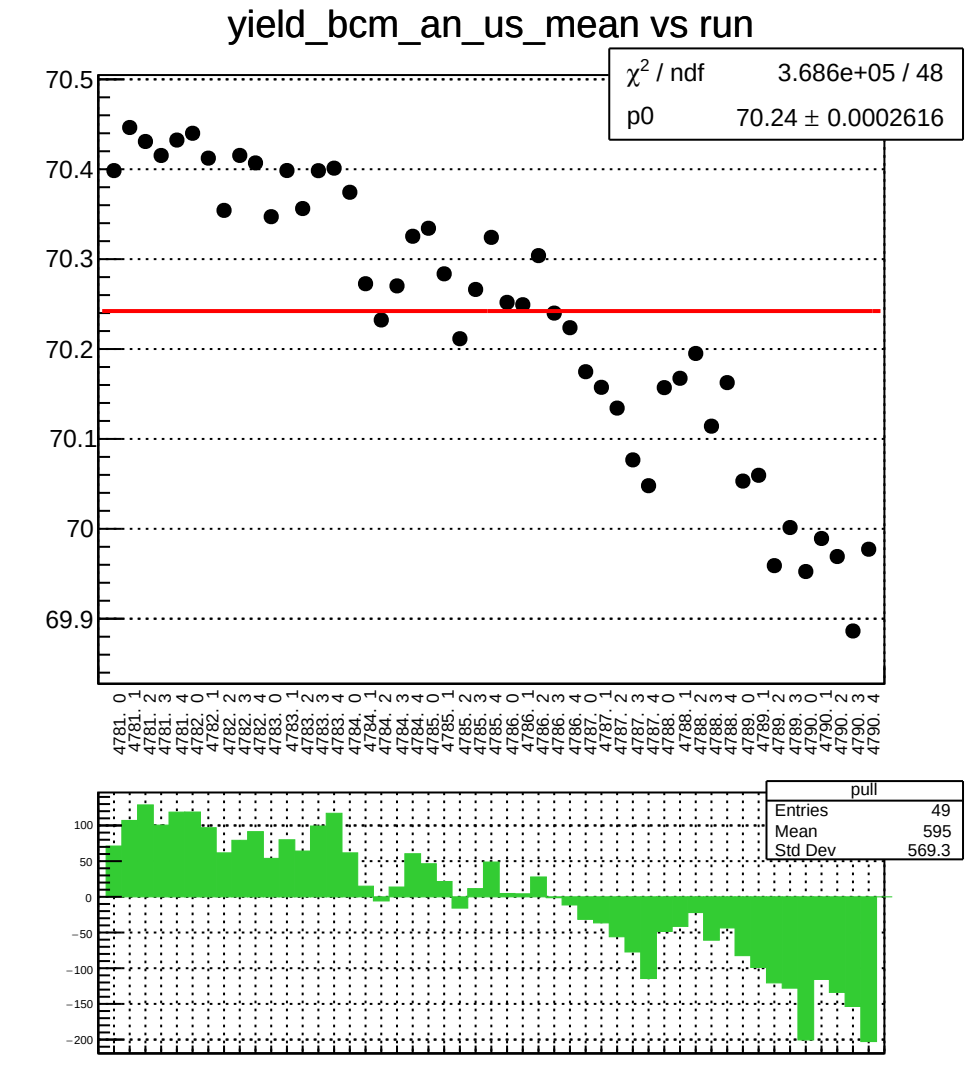
4790. 4


yield_bcm_an_us_mean vs run
χ² / ndf 3.686e+05 / 48
p0 70.24 ± 0.0002616
70.5
70.4
70.3
70.2
70.1
70
69.9
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
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4784. 0
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4784. 2
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4785. 0
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4785. 4
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4786. 2
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4786. 4
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4787. 1
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4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
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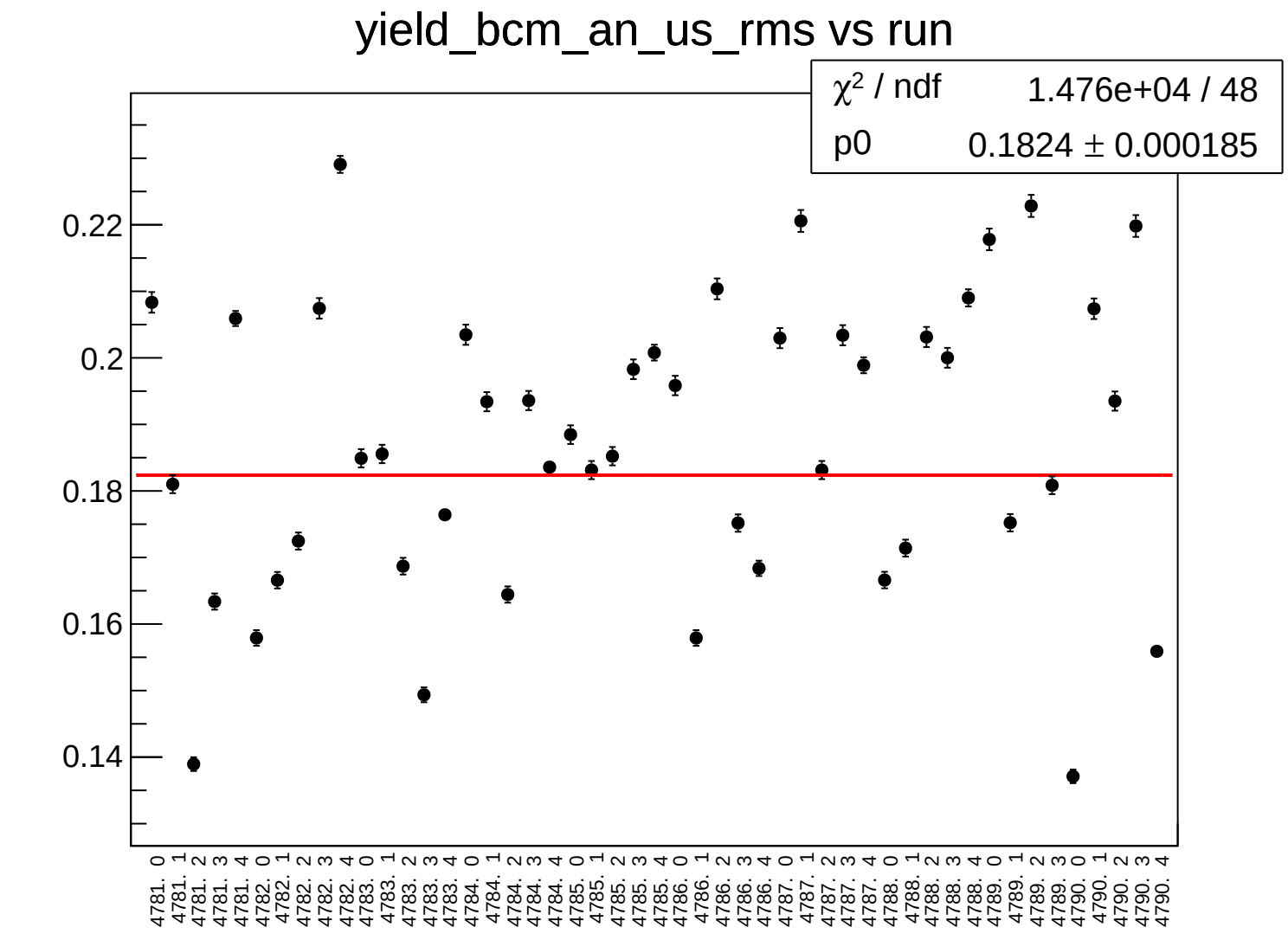
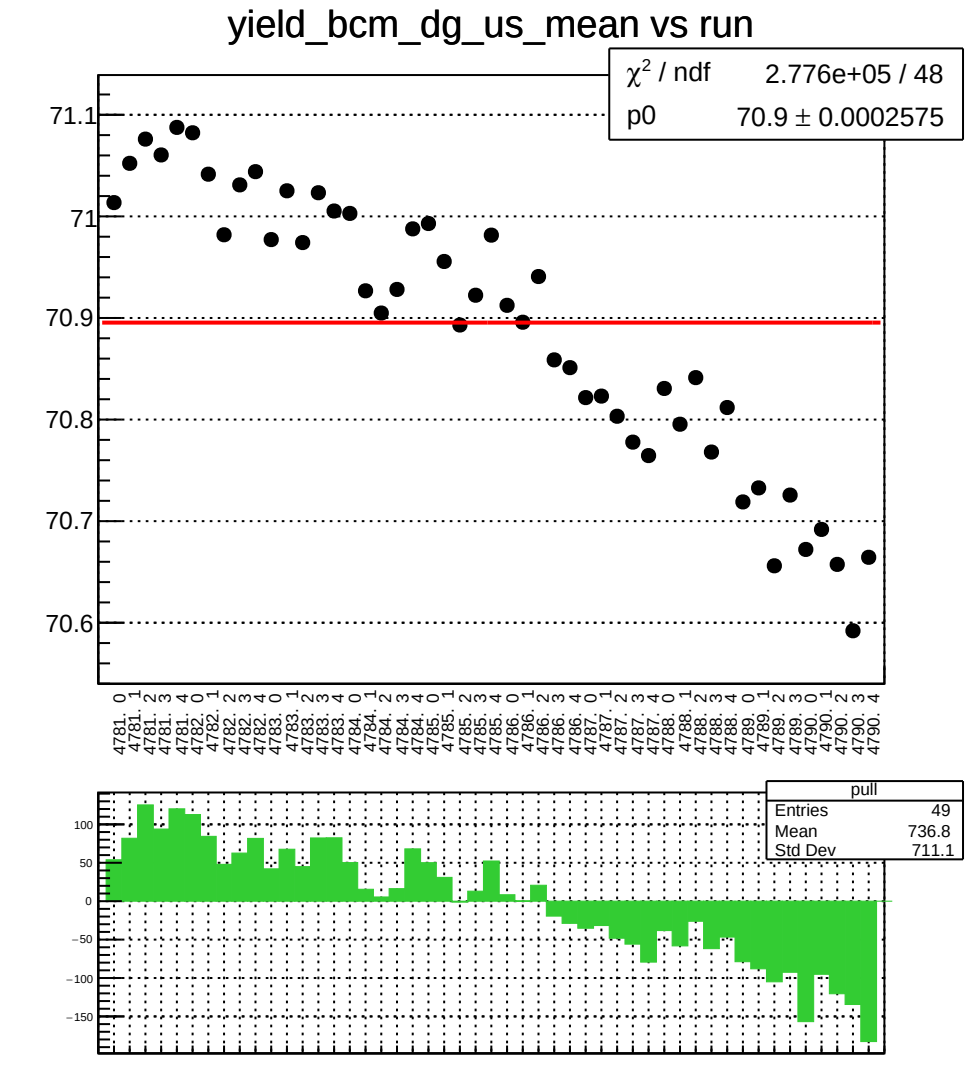
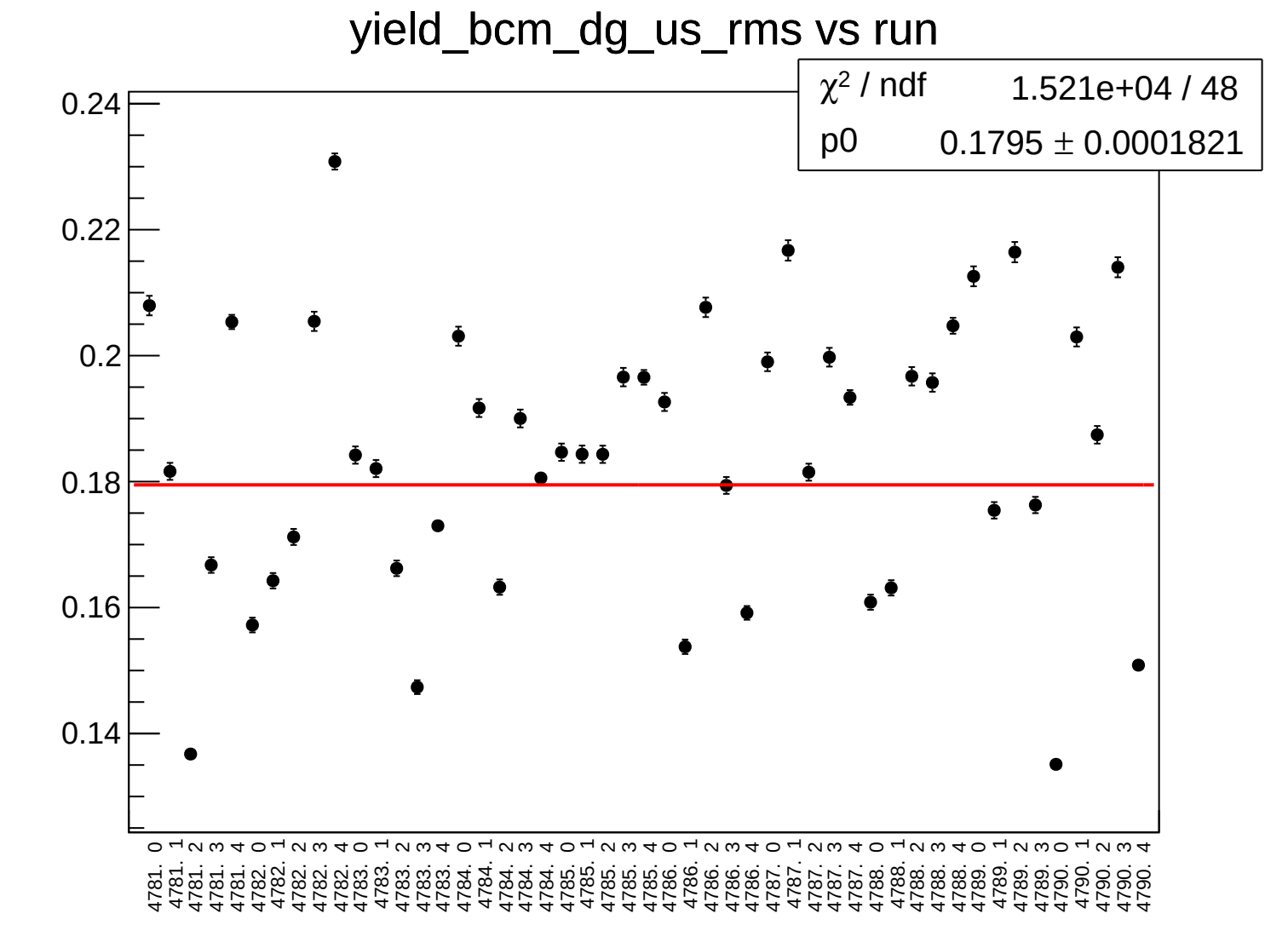
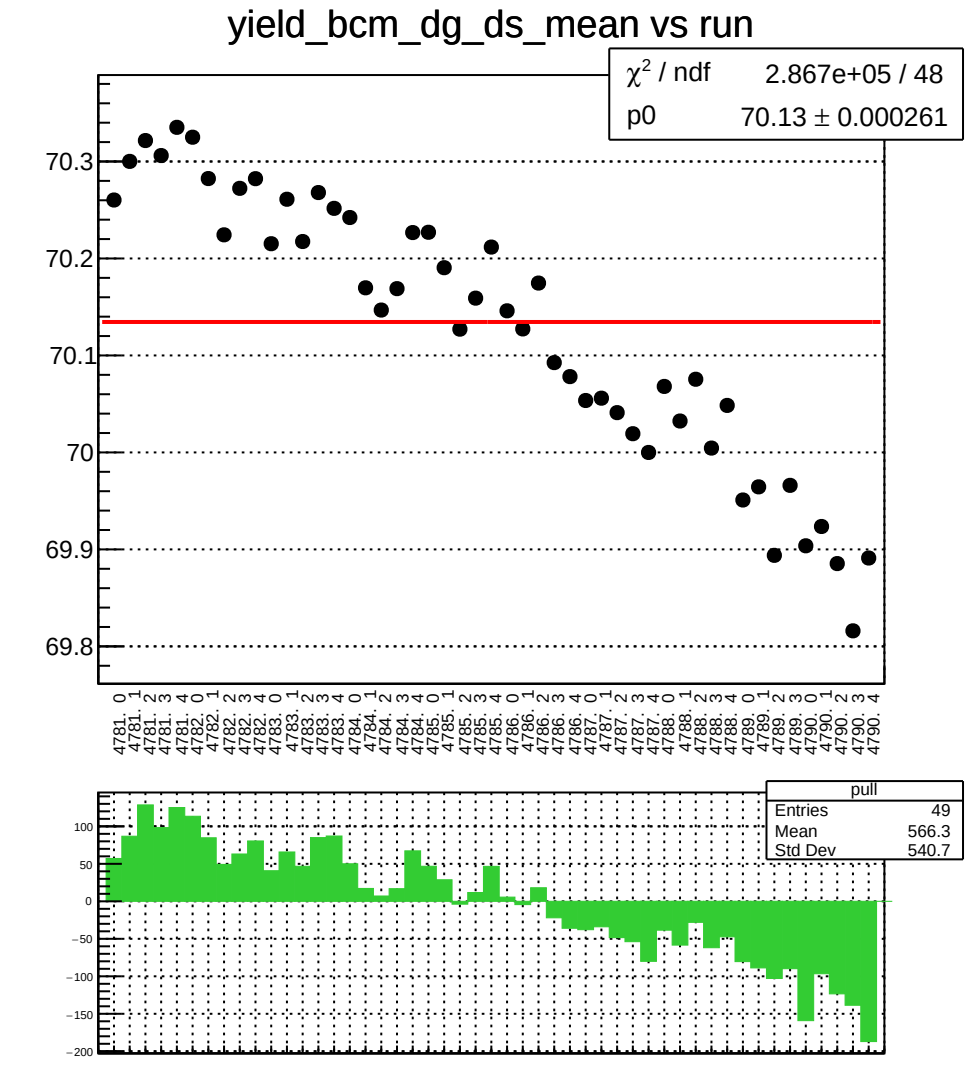
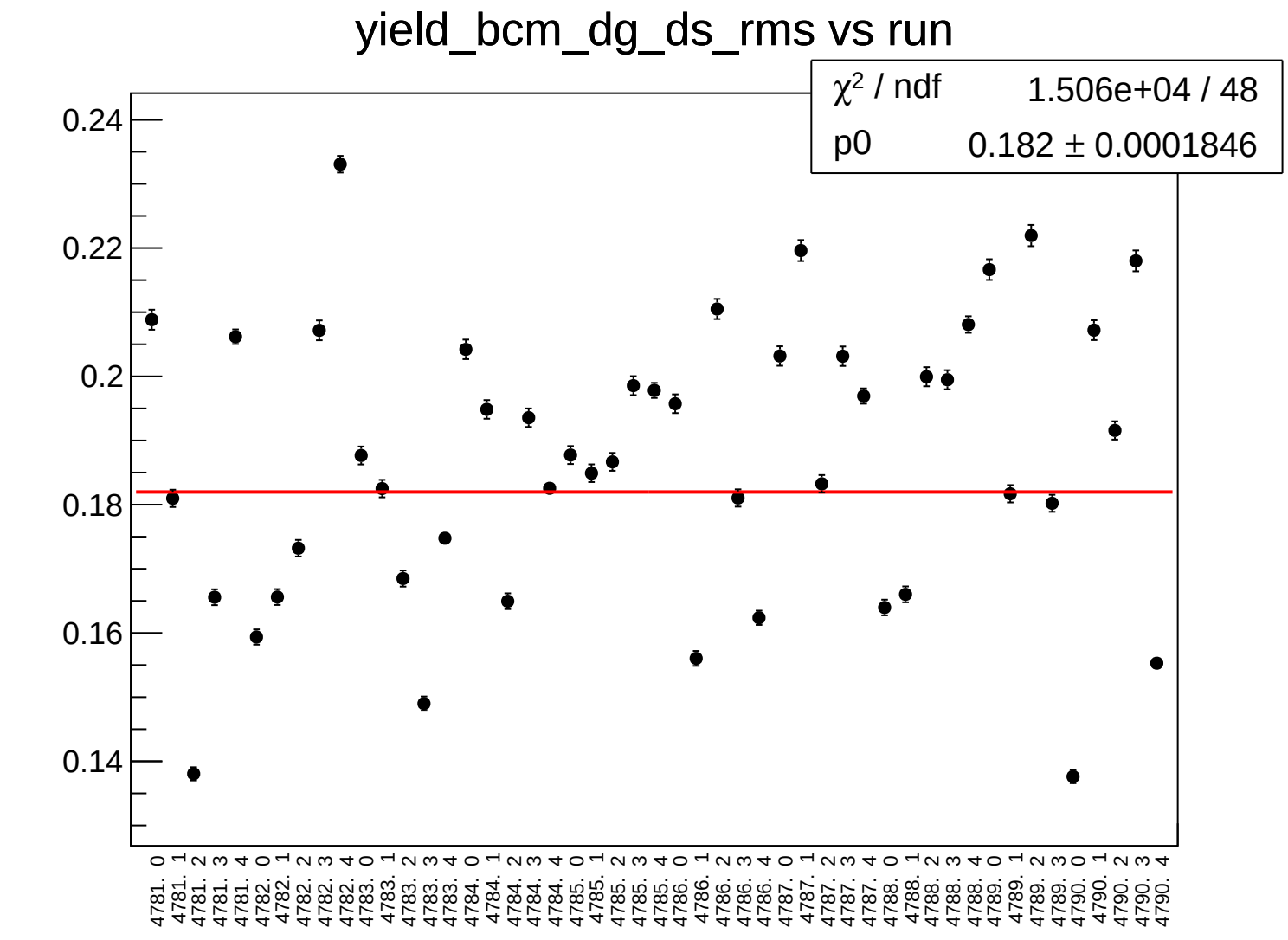
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 595
Std Dev 569.3
100
50
0
−50
−100
−150
−200
pull1D
Entries 49
Mean 0.4952
Std Dev 4.276
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

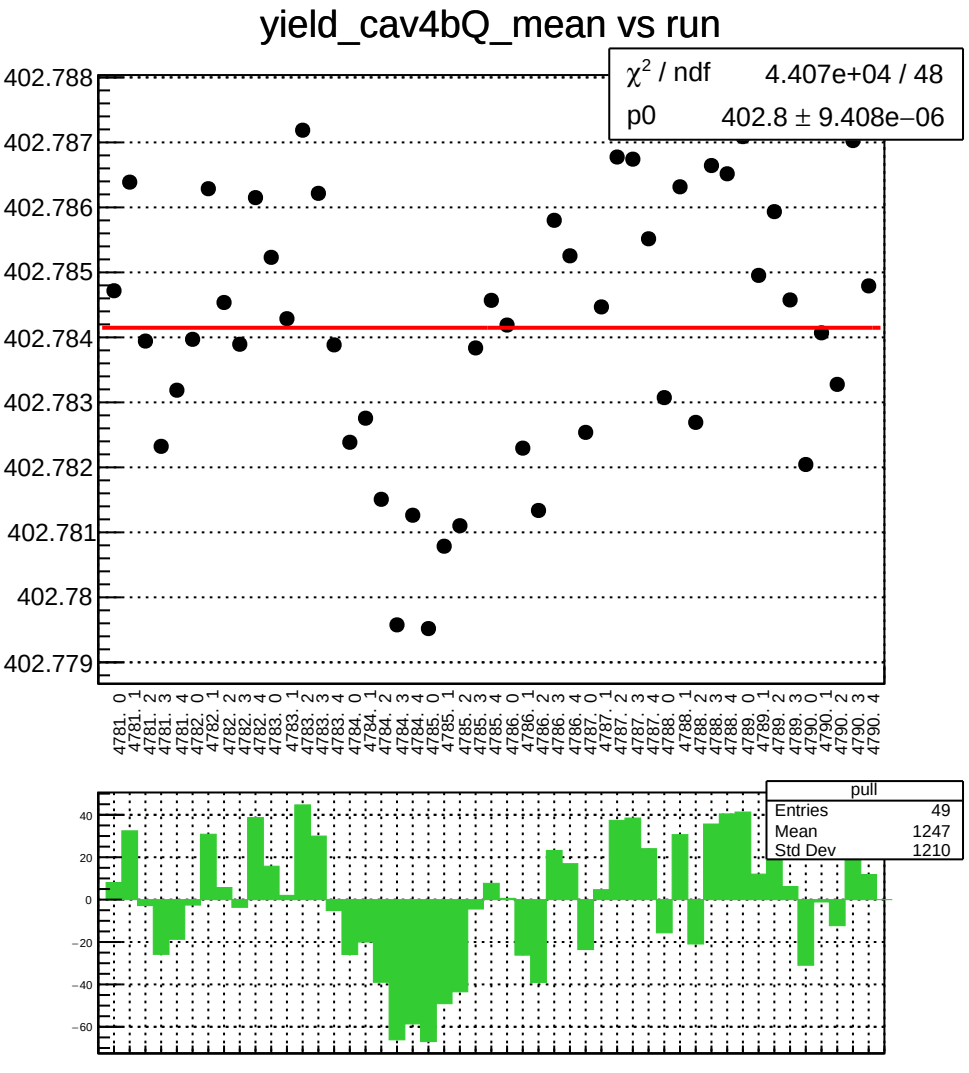

yield_bcm_an_us_rms vs run
χ² / ndf 1.476e+04 / 48
p0 0.1824 ± 0.000185
0.22
0.2
0.18
0.16
0.14
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

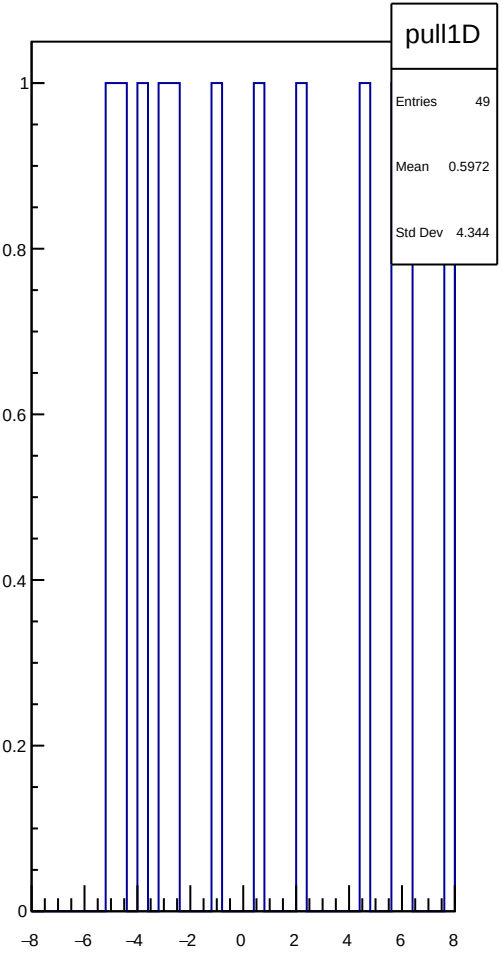

yield_bcm_dg_us_mean vs run
χ² / ndf 2.776e+05 / 48
p0 70.9 ± 0.0002575
71.1
71
70.9
70.8
70.7
70.6
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 736.8
Std Dev 711.1
100
50
0
−50
−100
−150
pull1D
Entries 49
Mean 1.502
Std Dev 2.872
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

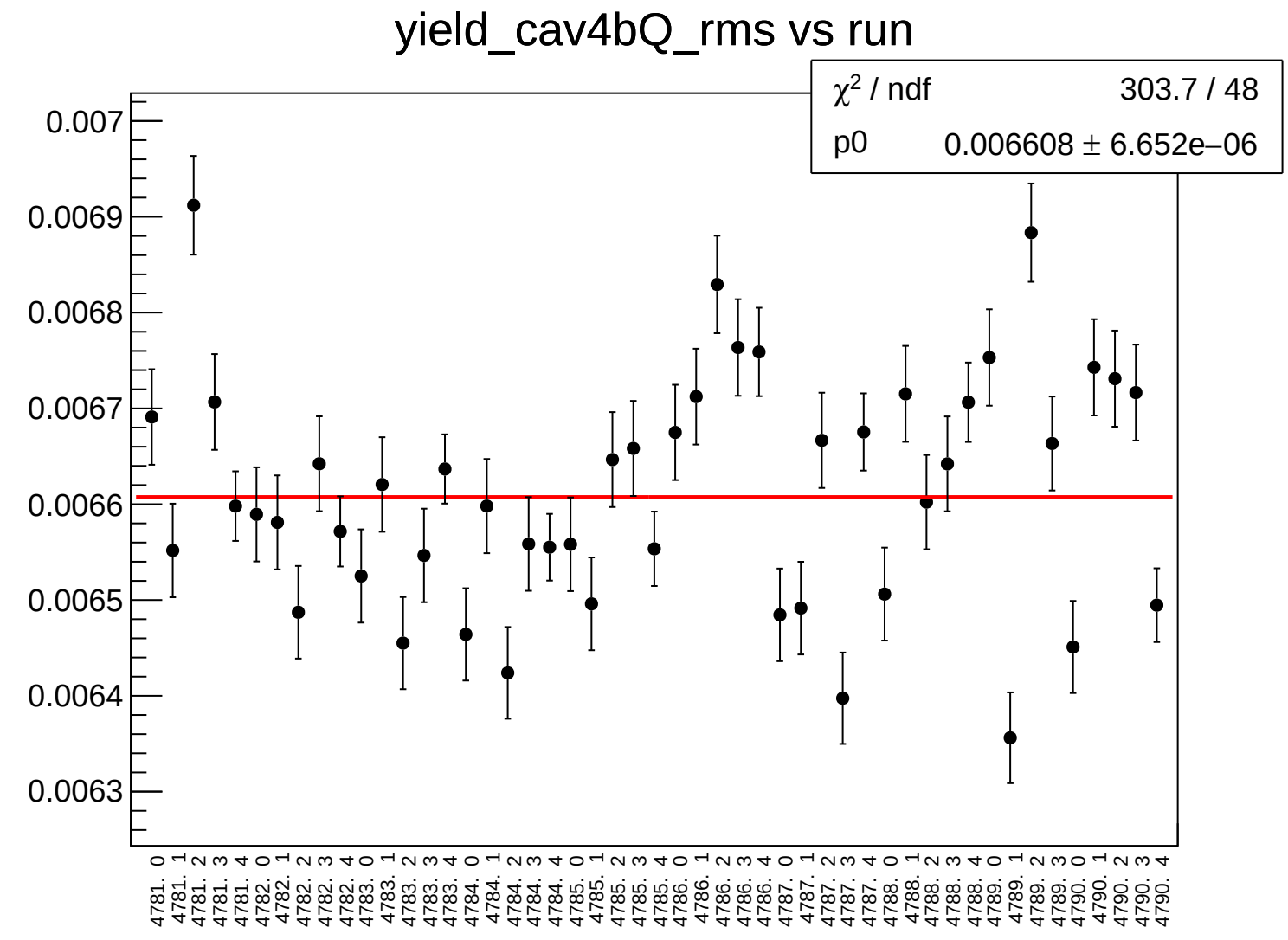

yield_bcm_dg_us_rms vs run
χ² / ndf 1.521e+04 / 48
p0 0.1795 ± 0.0001821
0.24
0.22
0.2
0.18
0.16
0.14
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

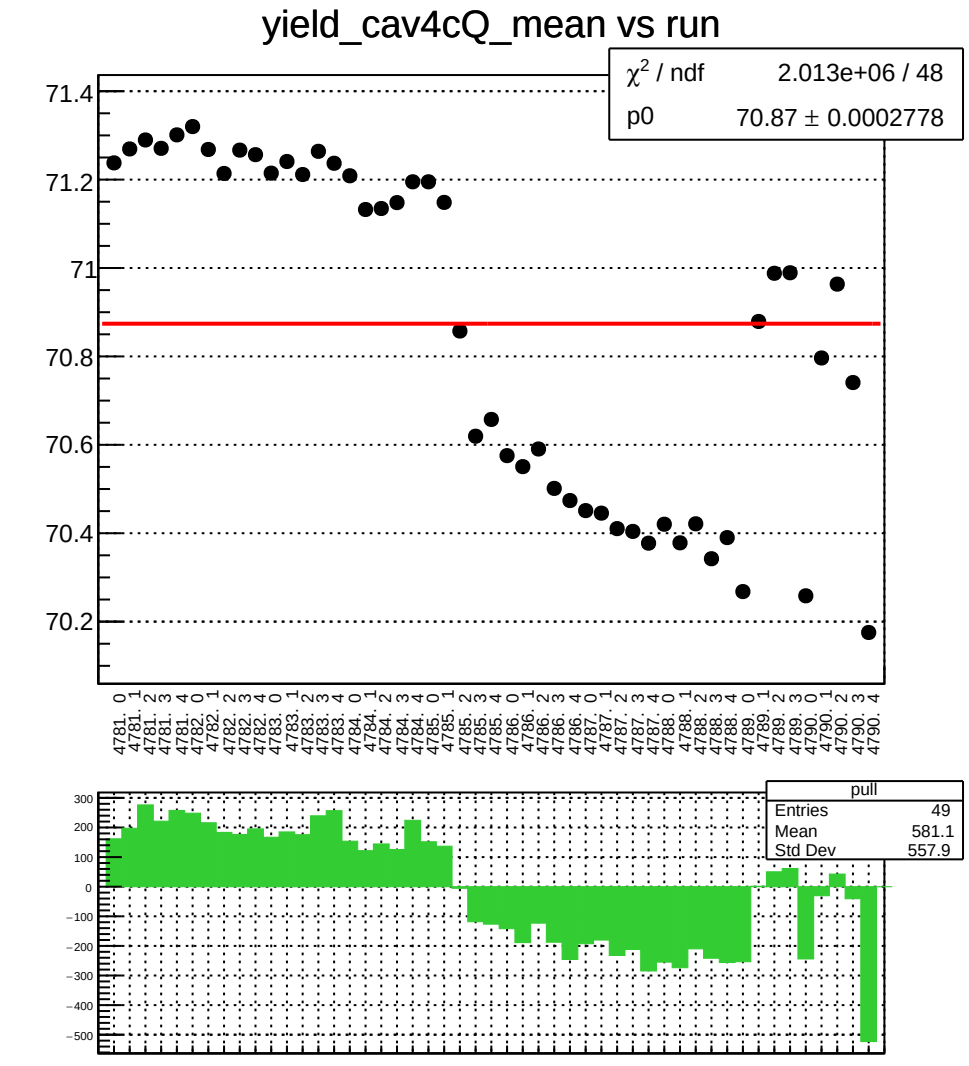

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.867e+05 / 48
p0 70.13 ± 0.000261
70.3
70.2
70.1
70
69.9
69.8
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 566.3
Std Dev 540.7
100
50
0
−50
−100
−150
−200
pull1D
Entries 49
Mean 1.134
Std Dev 5.224
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

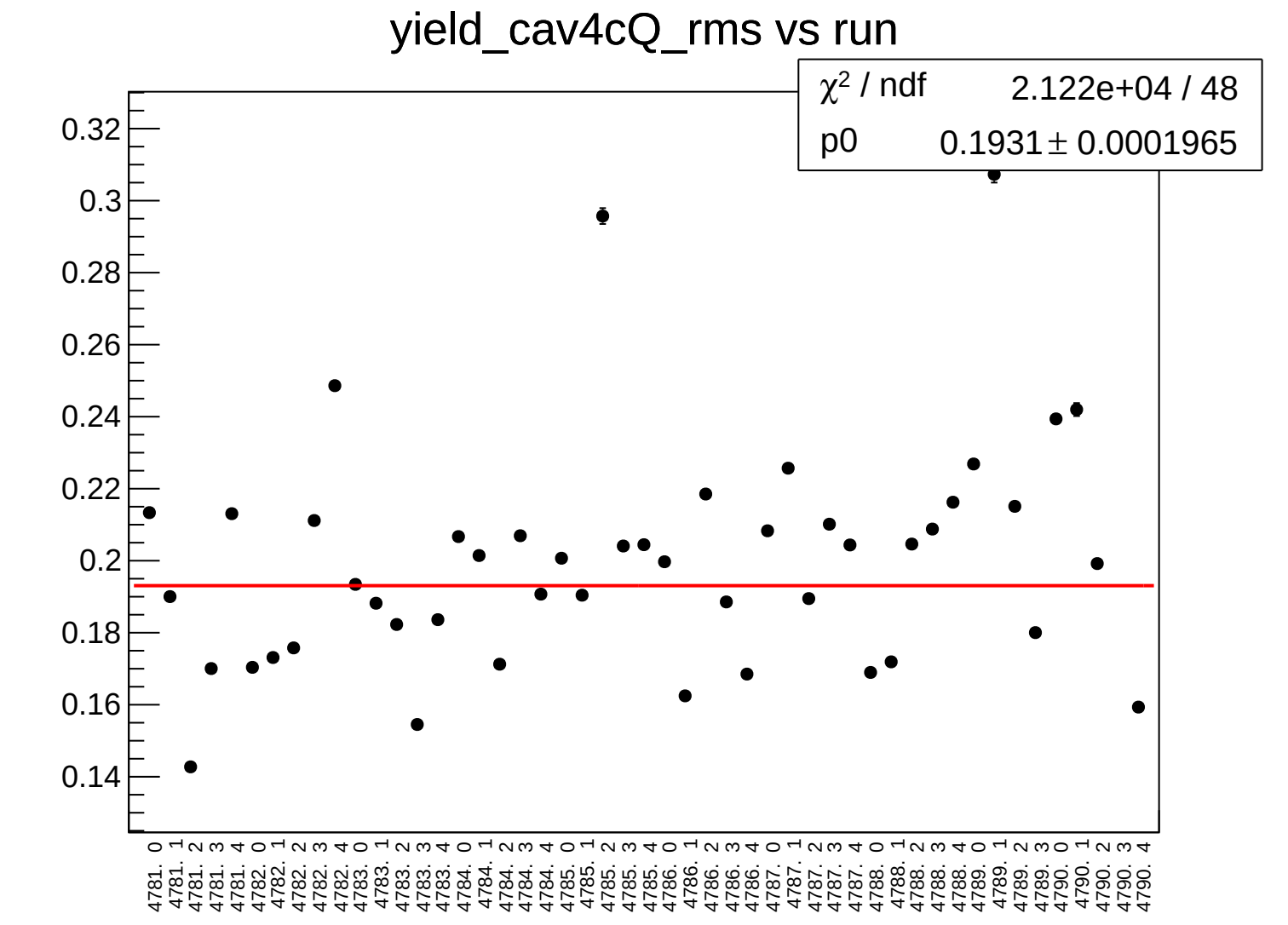

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.506e+04 / 48
p0 0.182 ± 0.0001846
0.24
0.22
0.2
0.18
0.16
0.14
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

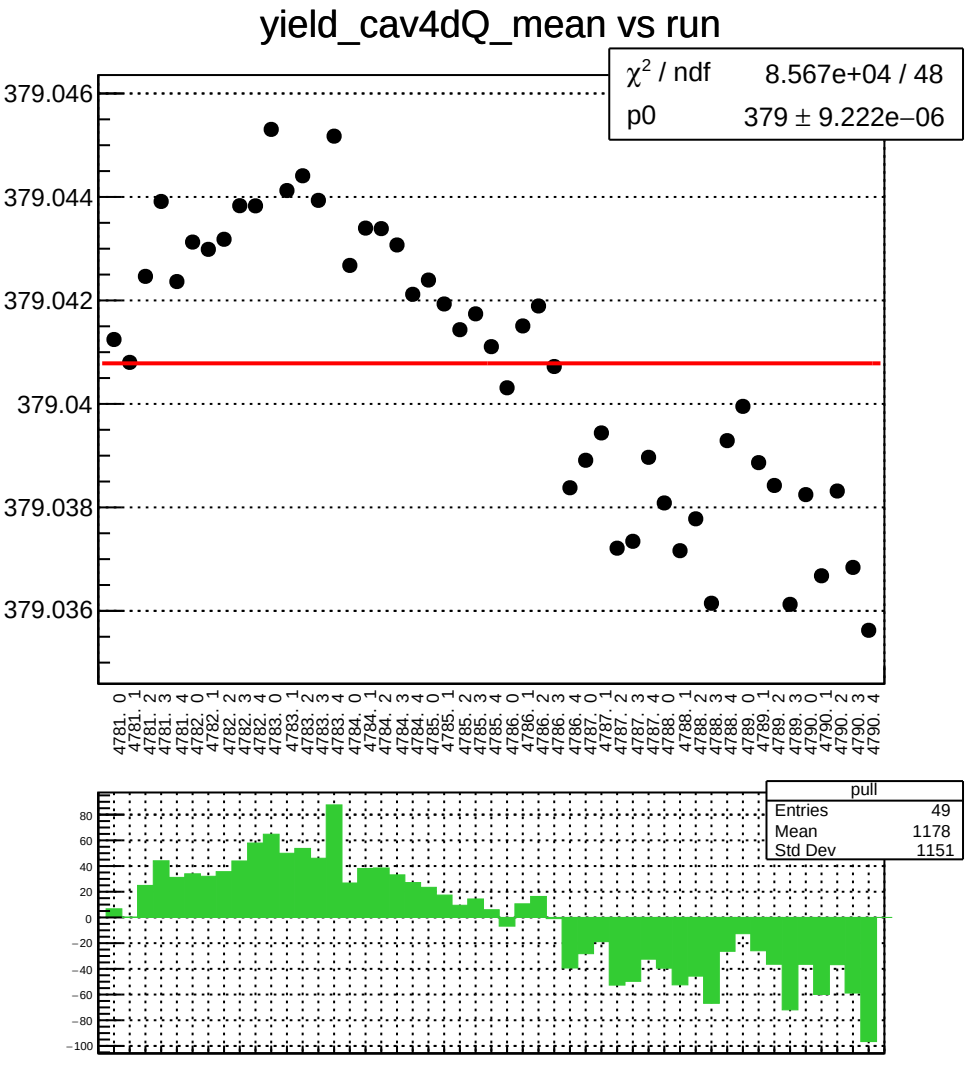

yield_cav4bQ_mean vs run
χ² / ndf 4.407e+04 / 48
p0 402.8 ± 9.408e−06
402.788
402.787
402.786
402.785
402.784
402.783
402.782
402.781
402.78
402.779
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 1247
Std Dev 1210
40
20
0
−20
−40
−60

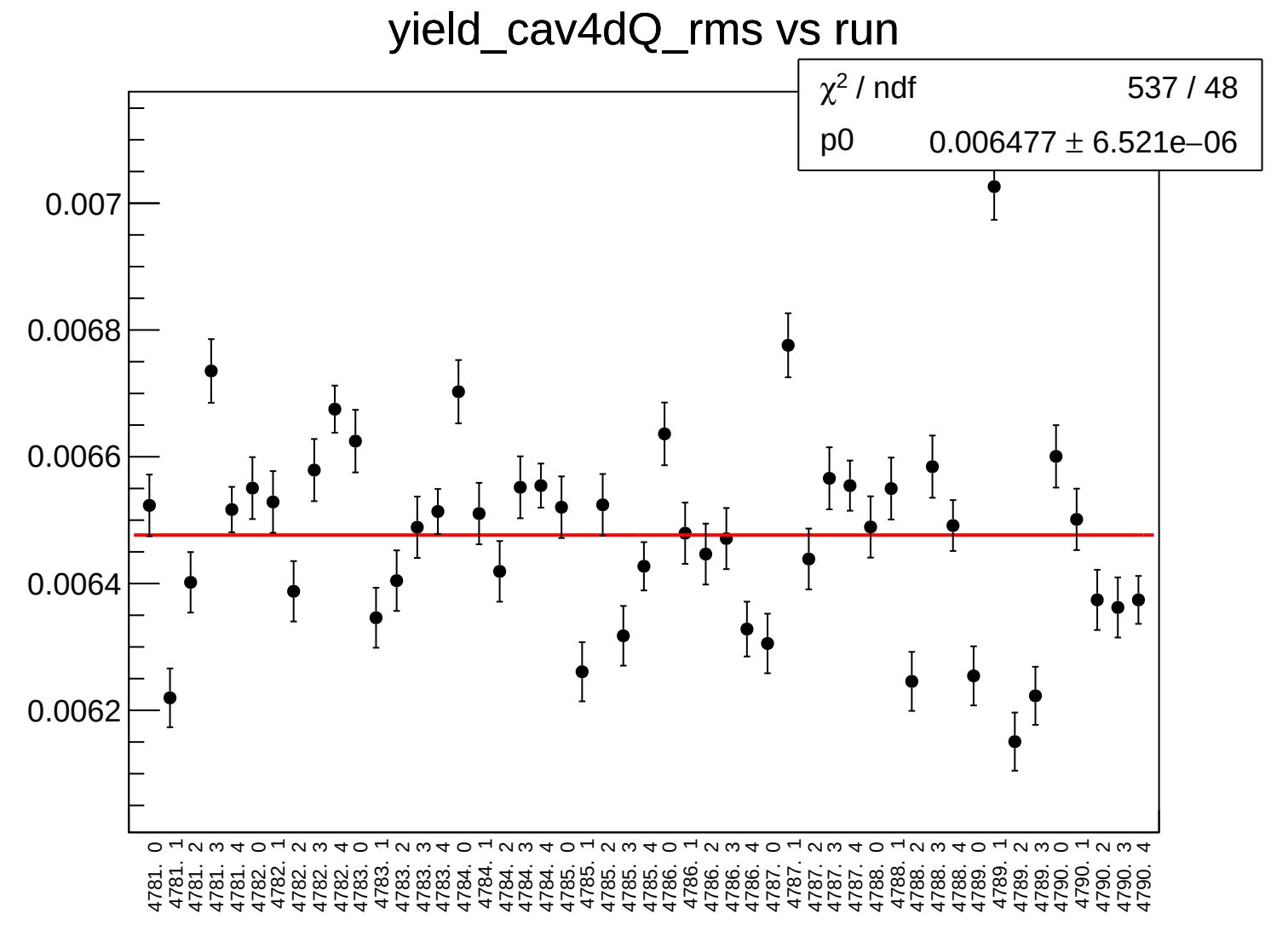

pull1D
Entries 49
Mean 0.5972
Std Dev 4.344
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

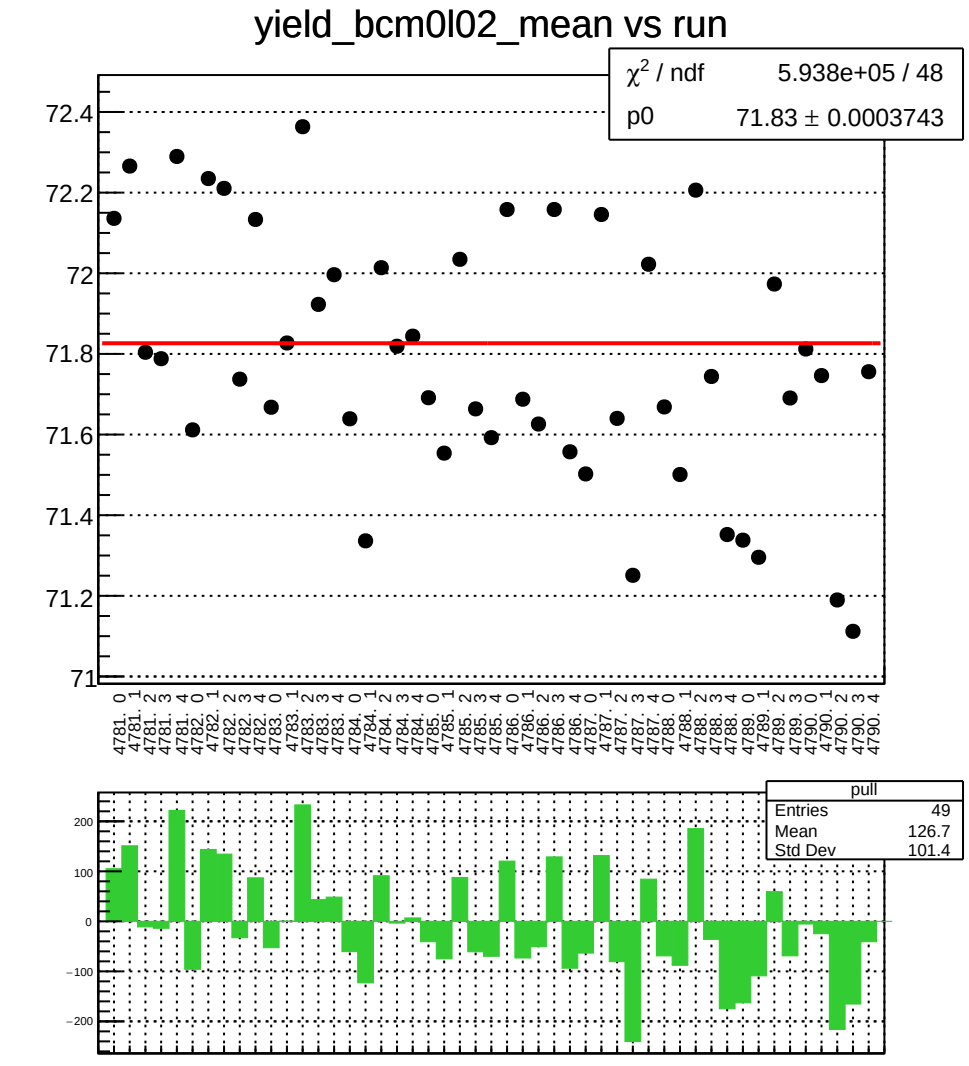

yield_cav4bQ_rms vs run
χ² / ndf 303.7 / 48
p0 0.006608 ± 6.652e−06
0.007
0.0069
0.0068
0.0067
0.0066
0.0065
0.0064
0.0063
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

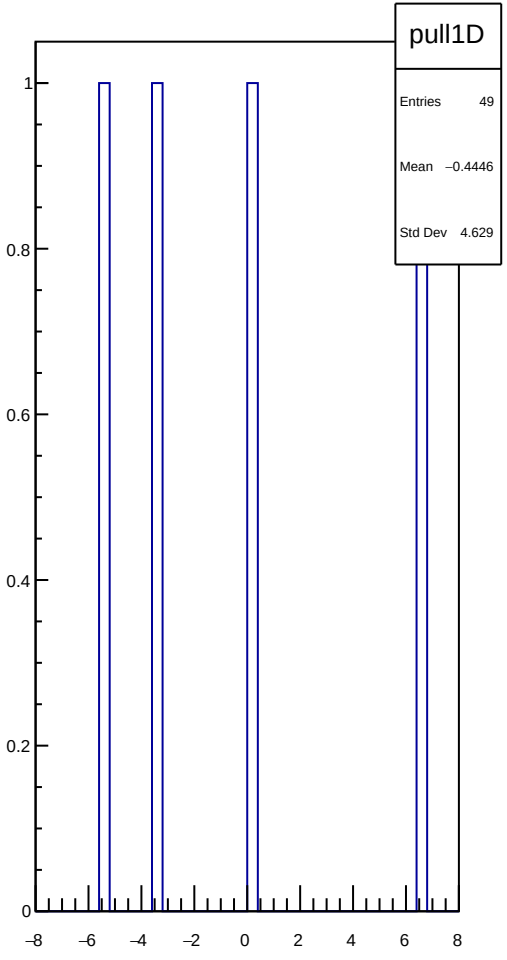

yield_cav4cQ_mean vs run
χ² / ndf 2.013e+06 / 48
p0 70.87 ± 0.0002778
71.4
71.2
71
70.8
70.6
70.4
70.2
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 581.1
Std Dev 557.9
300
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 49
Mean −1.874
Std Dev 3.433
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

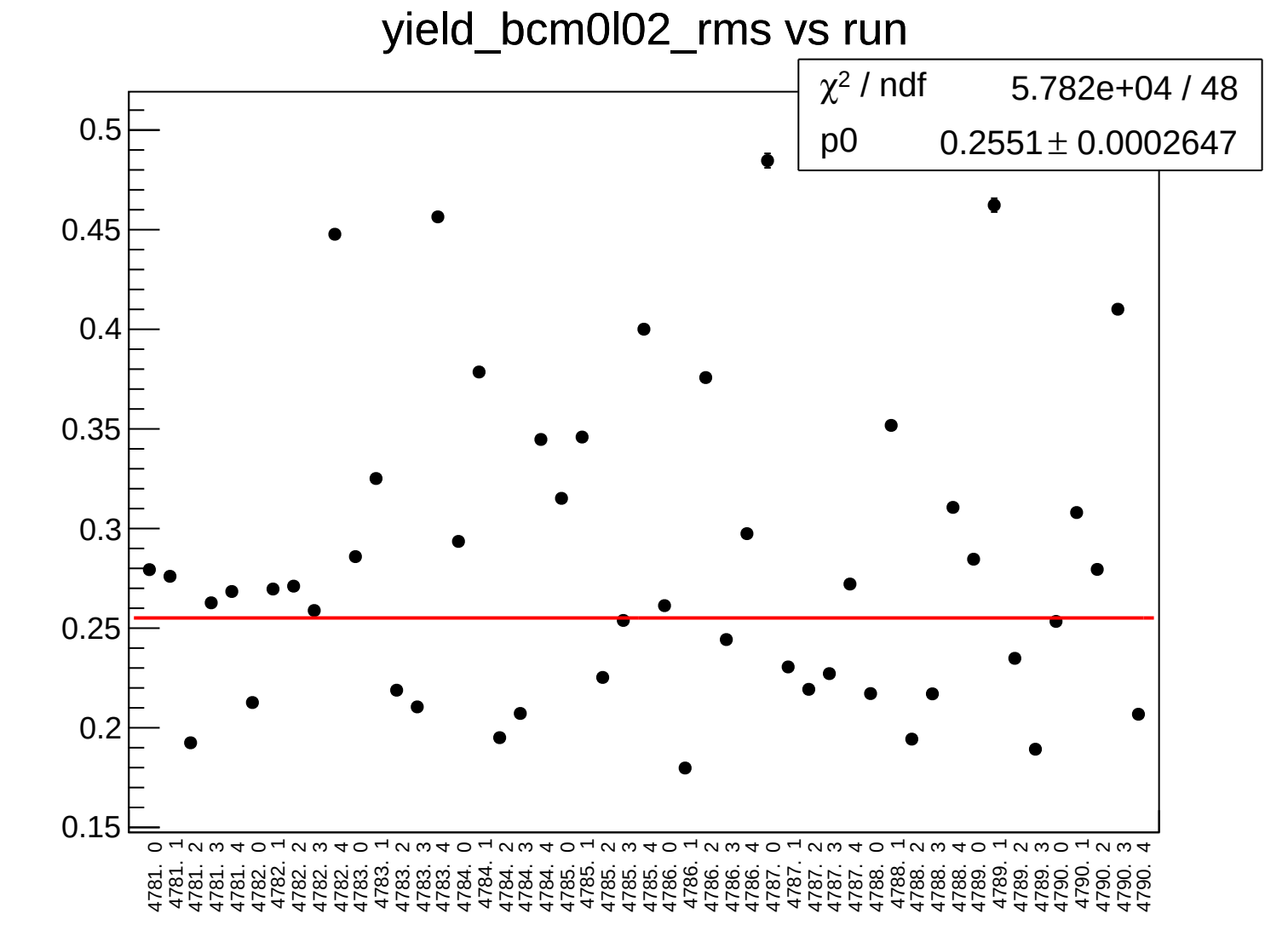

yield_cav4cQ_rms vs run
χ² / ndf 2.122e+04 / 48
p0 0.1931 ± 0.0001965
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

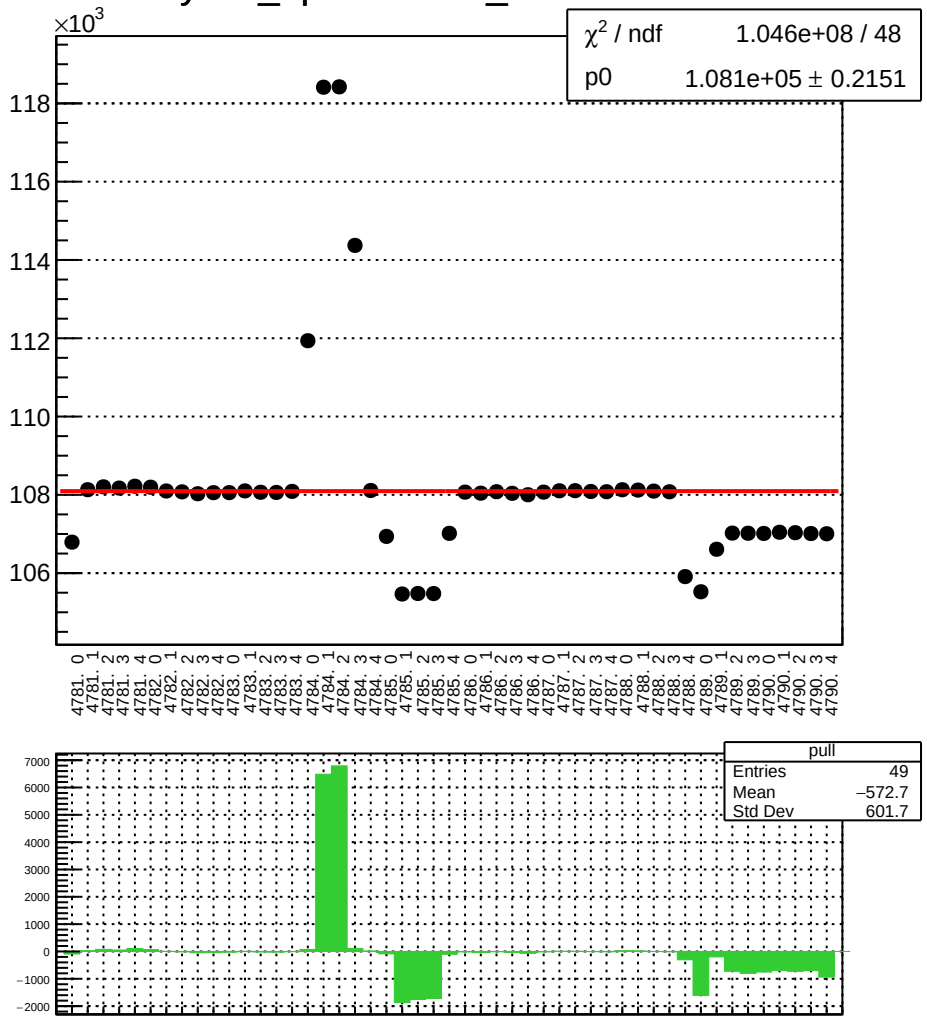

yield_cav4dQ_mean vs run
χ² / ndf 8.567e+04 / 48
p0 379 ± 9.222e−06
379.046
379.044
379.042
379.04
379.038
379.036
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 1178
Std Dev 1151
80
60
40
20
0
−20
−40
−60
−80
−100
pull1D
Entries 49
Mean 1.067
Std Dev 4.933
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

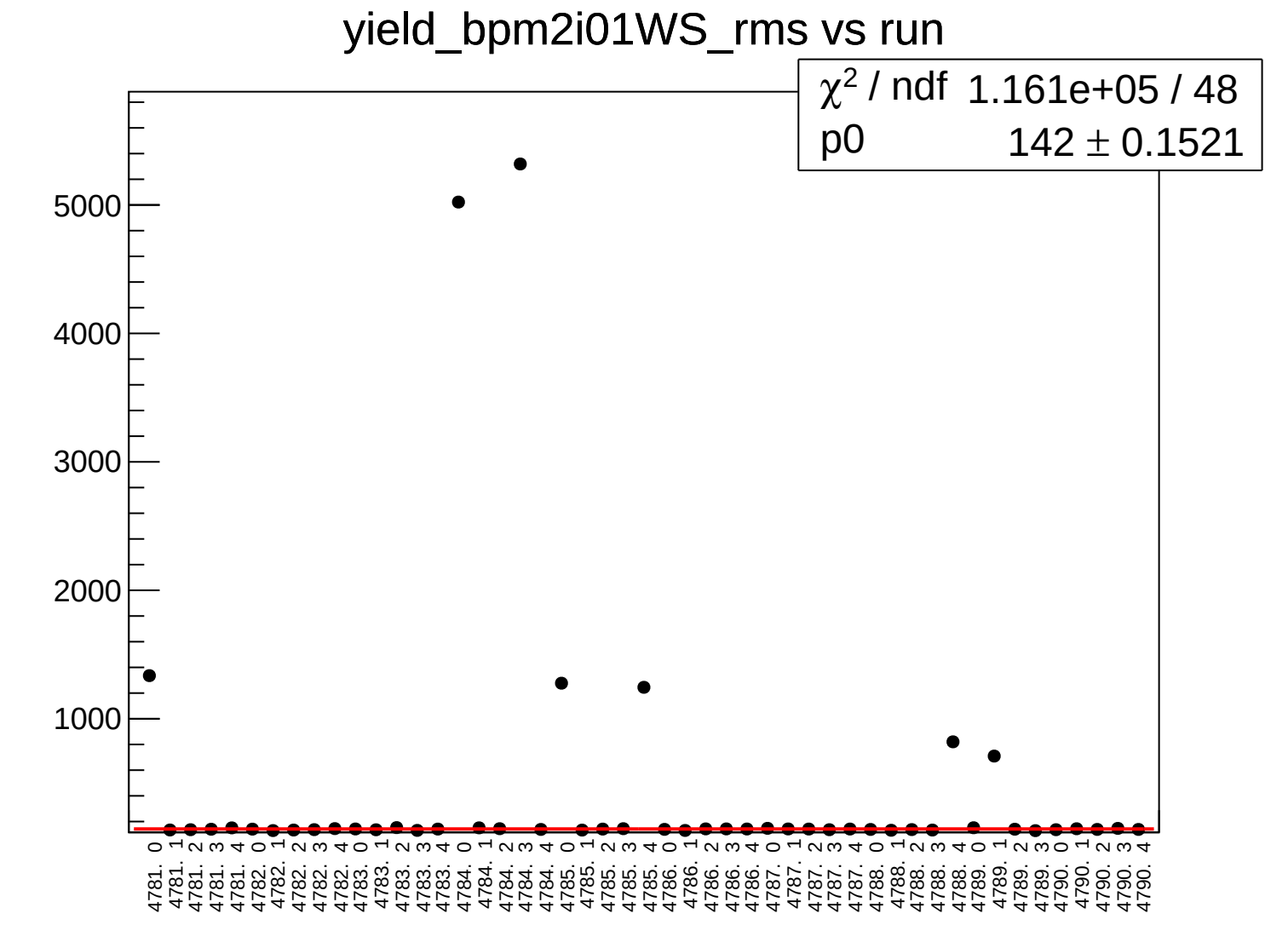

yield_cav4dQ_rms vs run
χ² / ndf 537 / 48
p0 0.006477 ± 6.521e−06
0.007
0.0068
0.0066
0.0064
0.0062
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


yield_bcm0l02_mean vs run
χ² / ndf 5.938e+05 / 48
p0 71.83 ± 0.0003743
72.4
72.2
72
71.8
71.6
71.4
71.2
71
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 126.7
Std Dev 101.4
200
100
0
−100
−200


pull1D
Entries 49
Mean −0.4446
Std Dev 4.629
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 5.782e+04 / 48
p0 0.2551 ± 0.0002647
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.046e+08 / 48
p0 1.081e+05 ± 0.2151
118
116
114
112
110
108
106
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −572.7
Std Dev 601.7
7000
6000
5000
4000
3000
2000
1000
0
−1000
−2000
pull1D
Entries 49
Mean 0.9251
Std Dev 5.166
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm2i01WS_rms vs run
χ² / ndf 1.161e+05 / 48
p0 142 ± 0.1521
5000
4000
3000
2000
1000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
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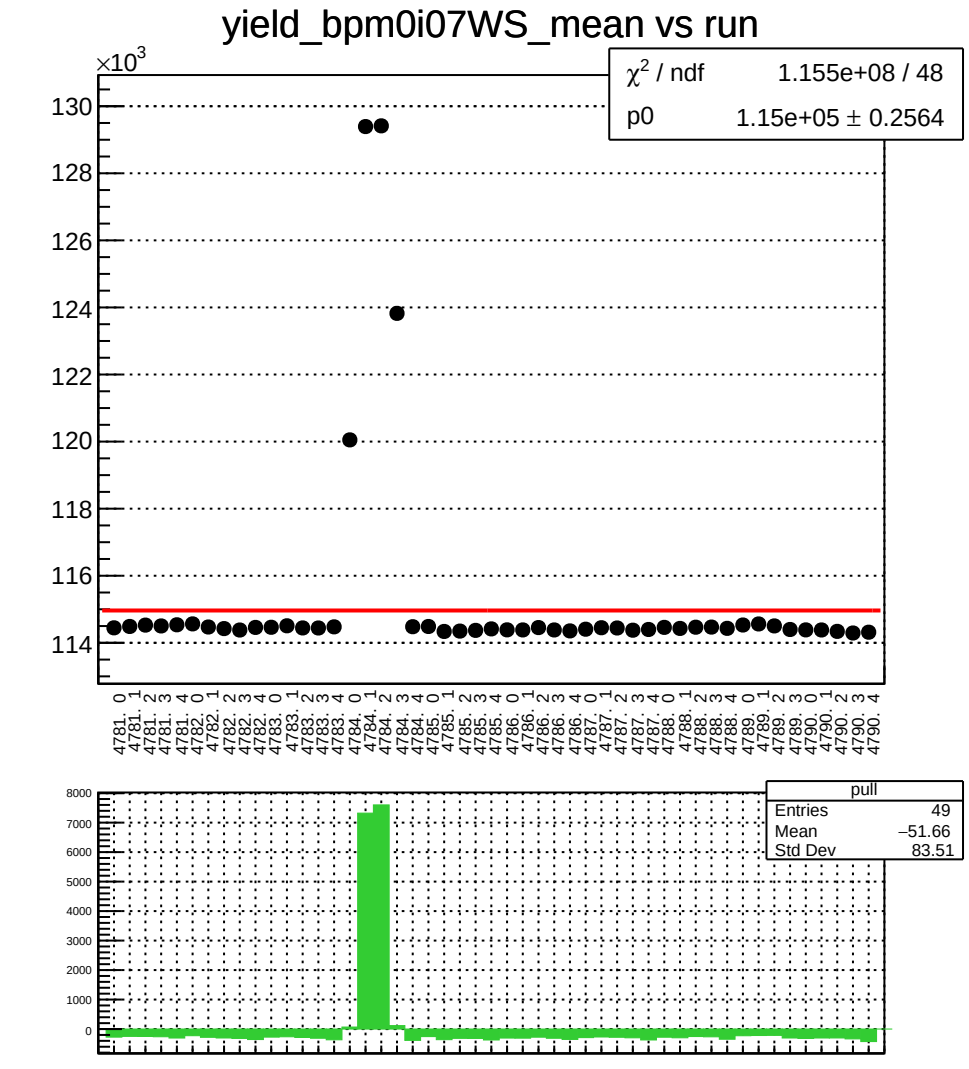
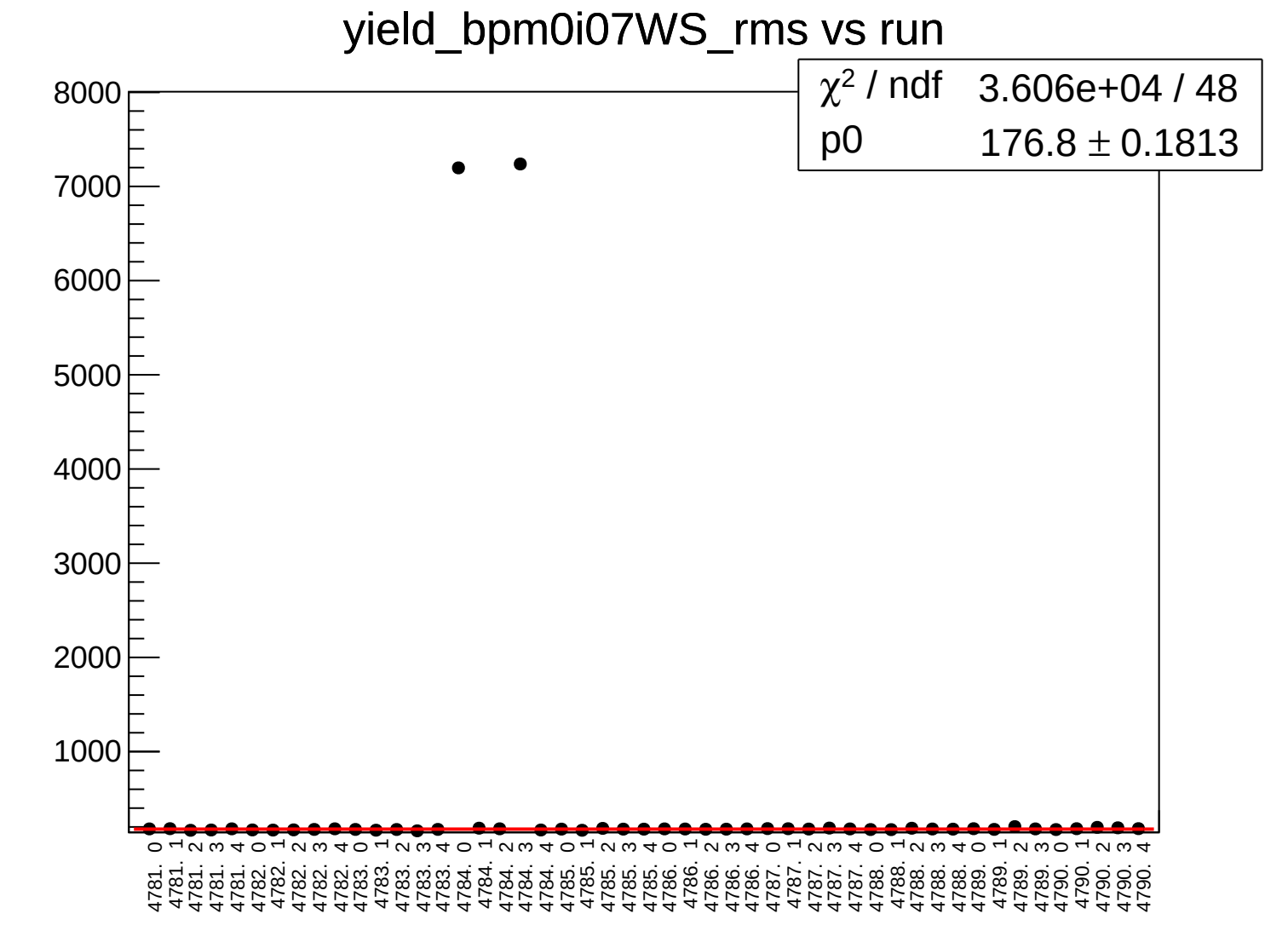
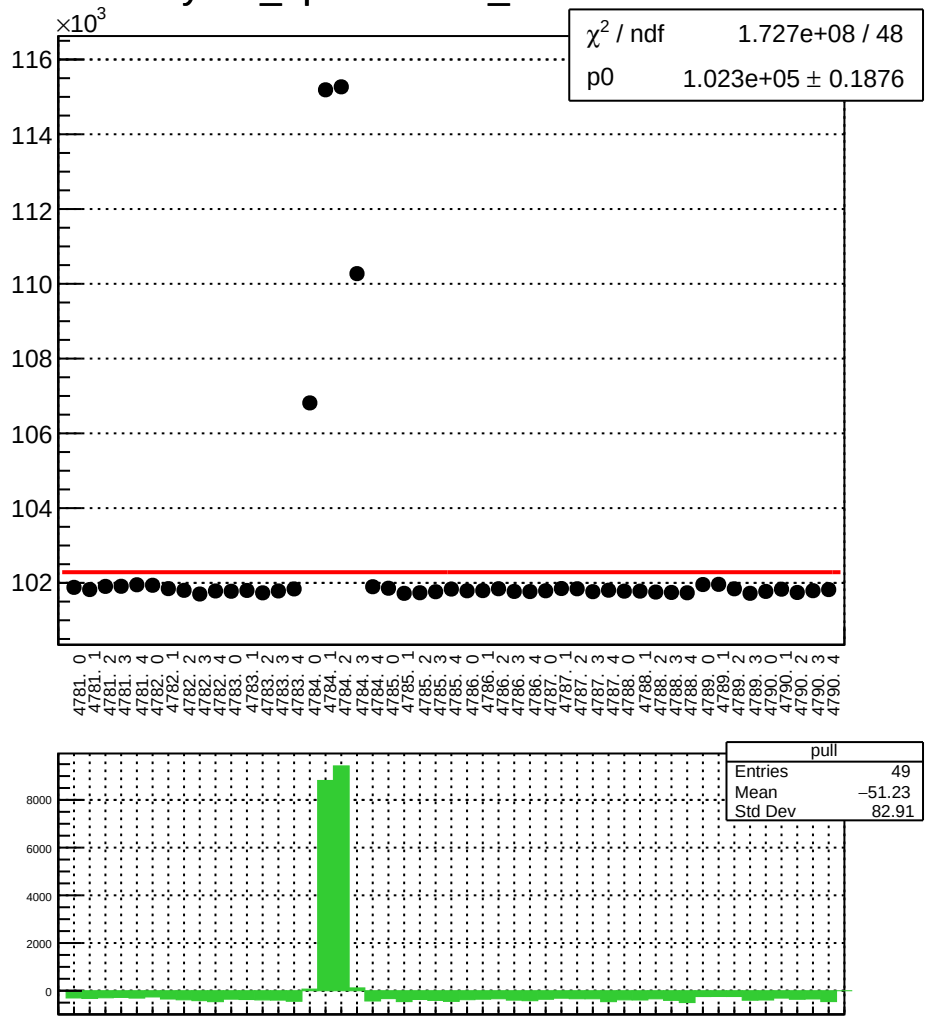
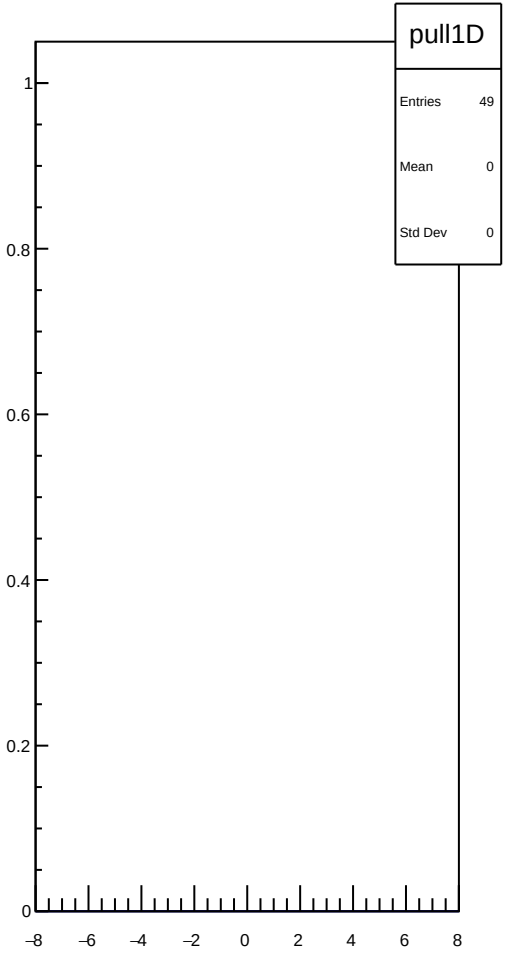
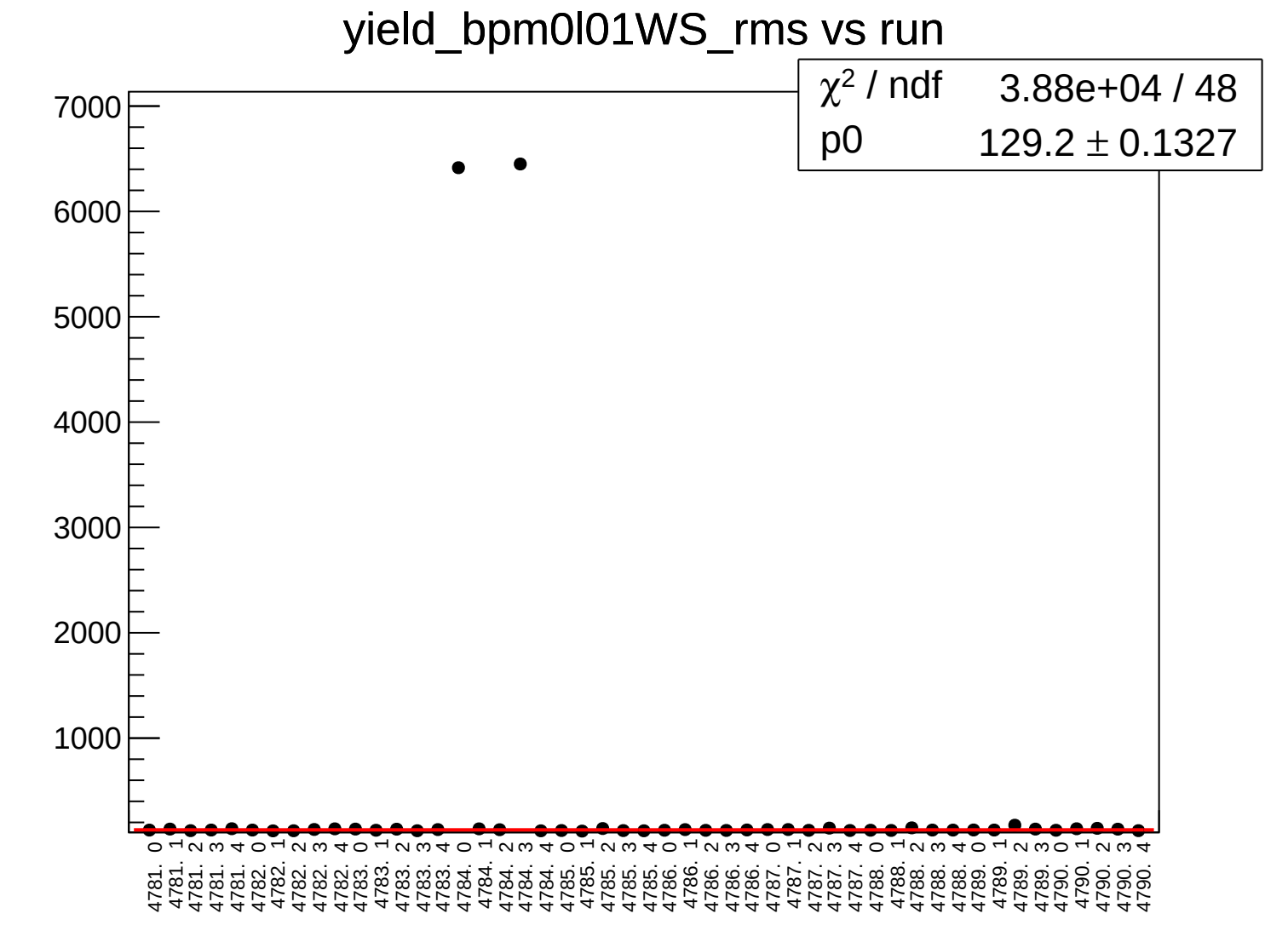
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

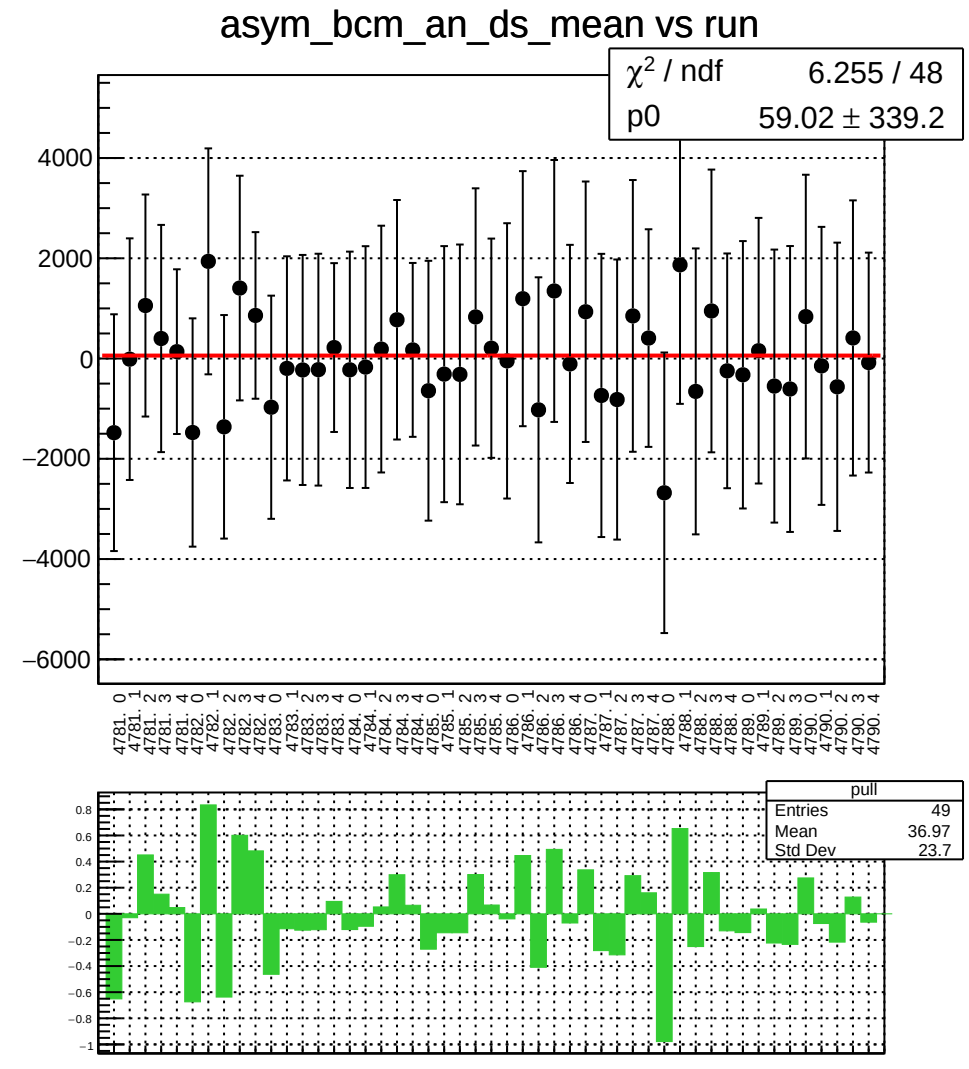

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.155e+08 / 48
p0 1.15e+05 ± 0.2564
130
128
126
124
122
120
118
116
114
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
8000
7000
6000
5000
4000
3000
2000
1000
0
pull
Entries 49
Mean −51.66
Std Dev 83.51
pull1D
Entries 49
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

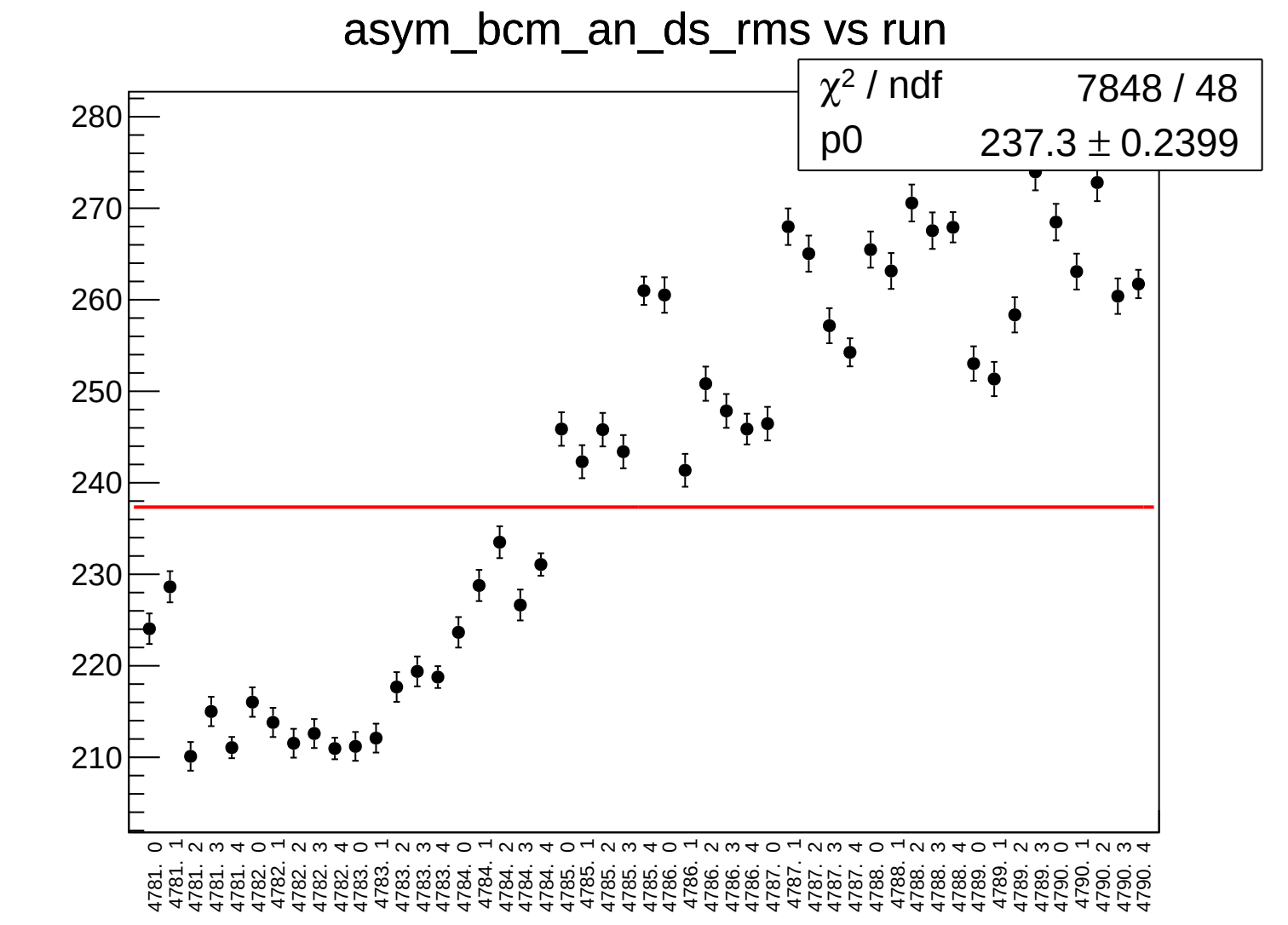

yield_bpm0i07WS_rms vs run
χ² / ndf 3.606e+04 / 48
p0 176.8 ± 0.1813
8000
7000
6000
5000
4000
3000
2000
1000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


yield_bpm0l01WS_mean vs run
×10^3
χ^2 / ndf 1.727e+08 / 48
p0 1.023e+05 ± 0.1876
116
114
112
110
108
106
104
102
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −51.23
Std Dev 82.91
8000
6000
4000
2000
0


pull1D
Entries 49
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 3.88e+04 / 48
p0 129.2 ± 0.1327
7000
6000
5000
4000
3000
2000
1000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


asym_bcm_an_ds_mean vs run
χ² / ndf 6.255 / 48
p0 59.02 ± 339.2
4000
2000
0
−2000
−4000
−6000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 36.97
Std Dev 23.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 49
Mean −0.00893
Std Dev 0.3572
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_ds_rms vs run
χ² / ndf 7848 / 48
p0 237.3 ± 0.2399
280
270
260
250
240
230
220
210
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
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4789. 0
4789. 1
4789. 2
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4790. 0
4790. 1
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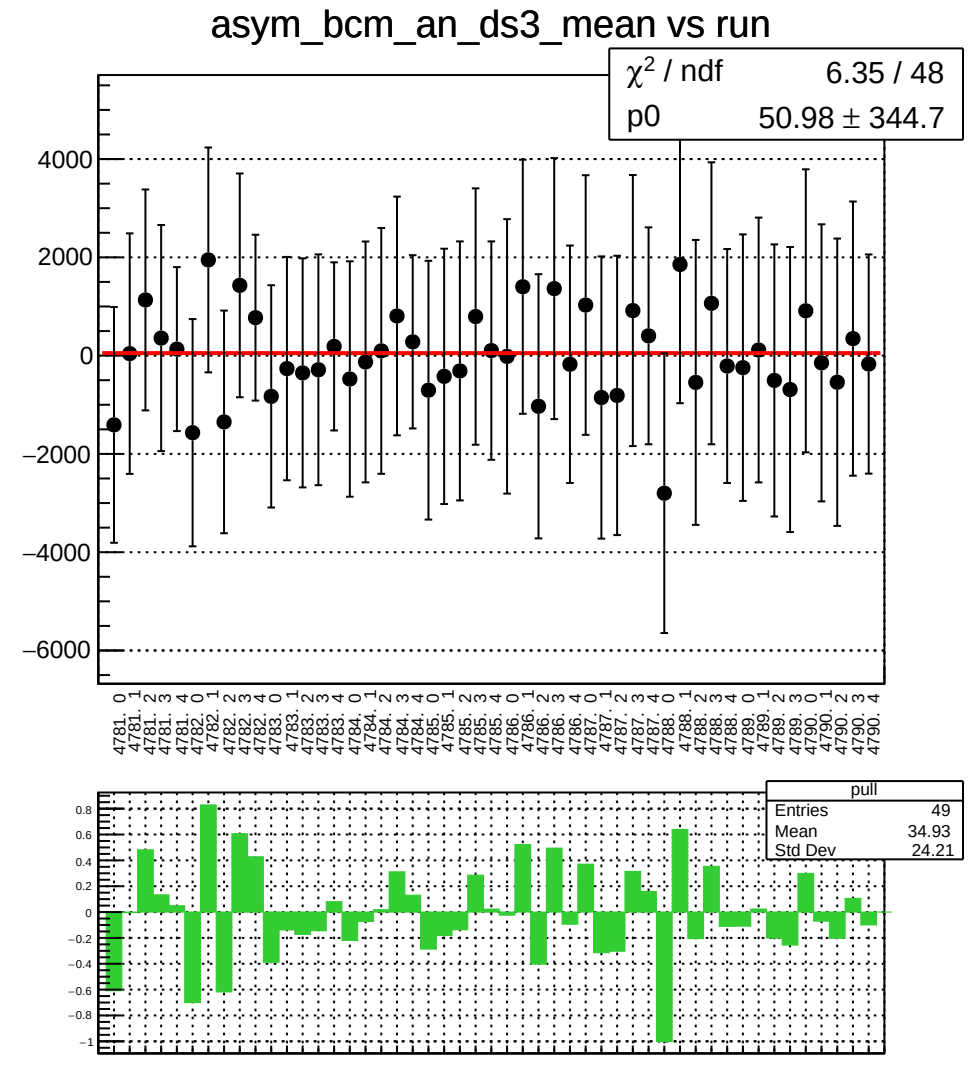
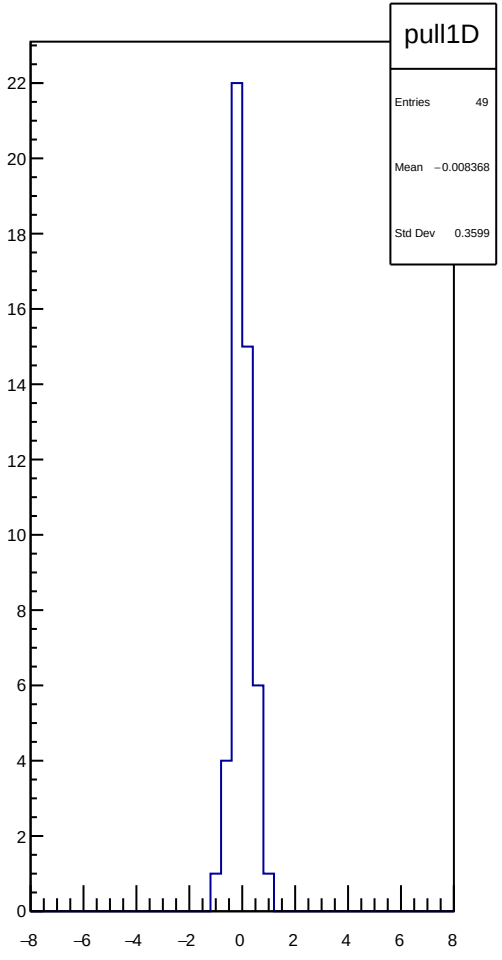
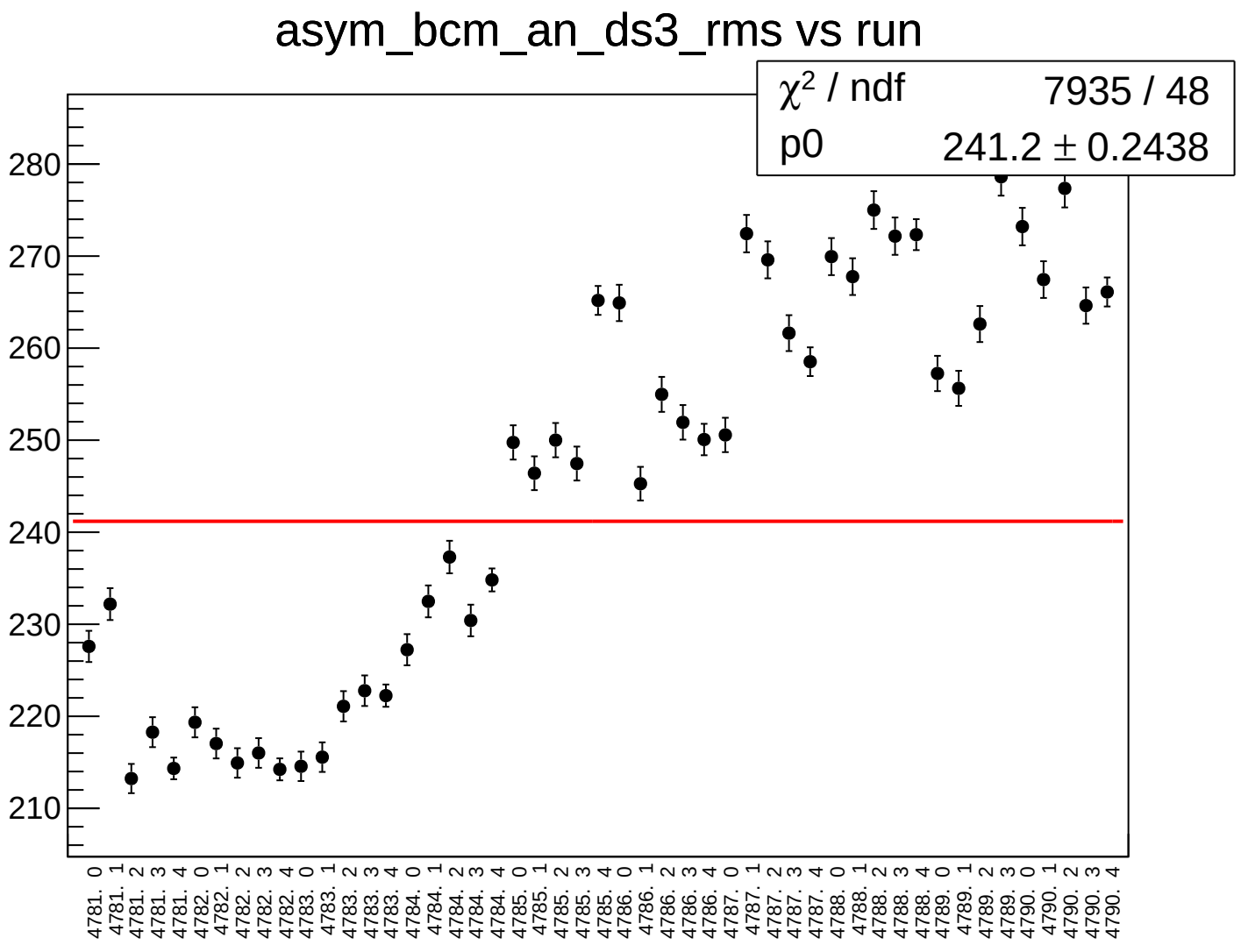
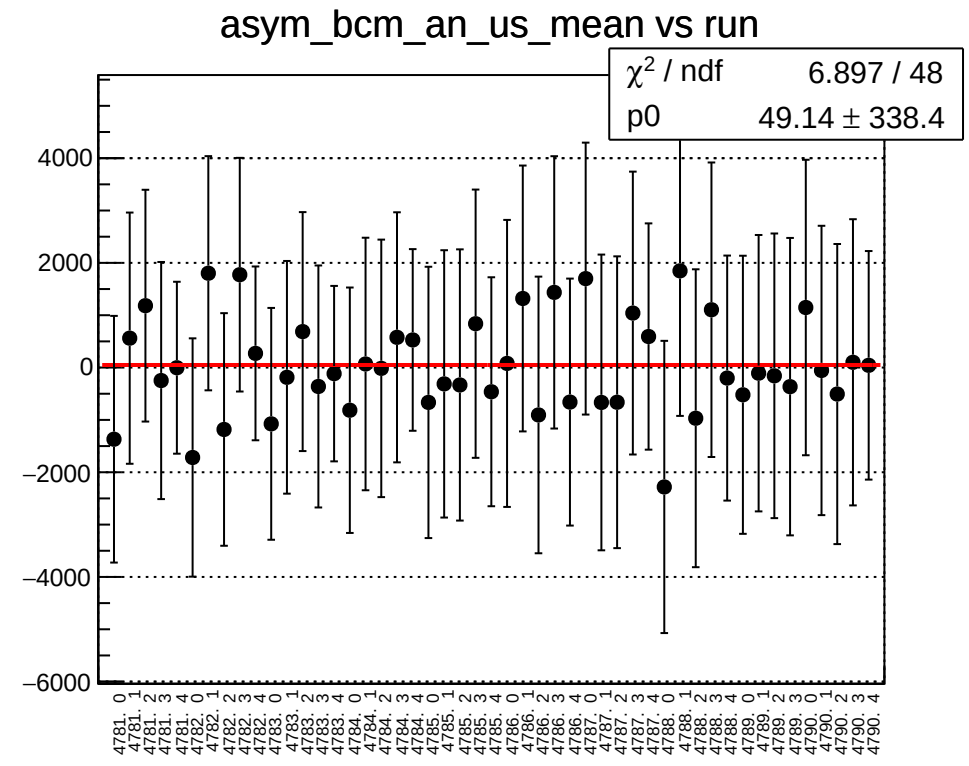
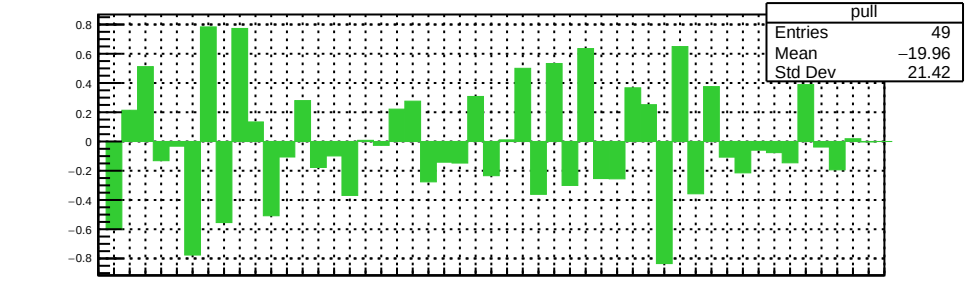
4790. 3
4790. 4

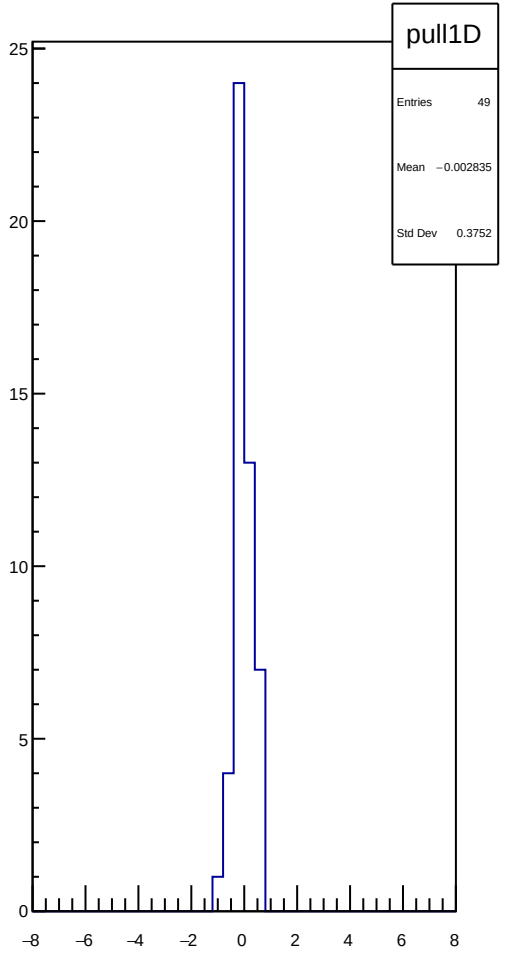

asym_bcm_an_ds3_mean vs run
χ^2 / ndf 6.35 / 48
p0 50.98 ± 344.7
4000
2000
0
−2000
−4000
−6000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 34.93
Std Dev 24.21
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

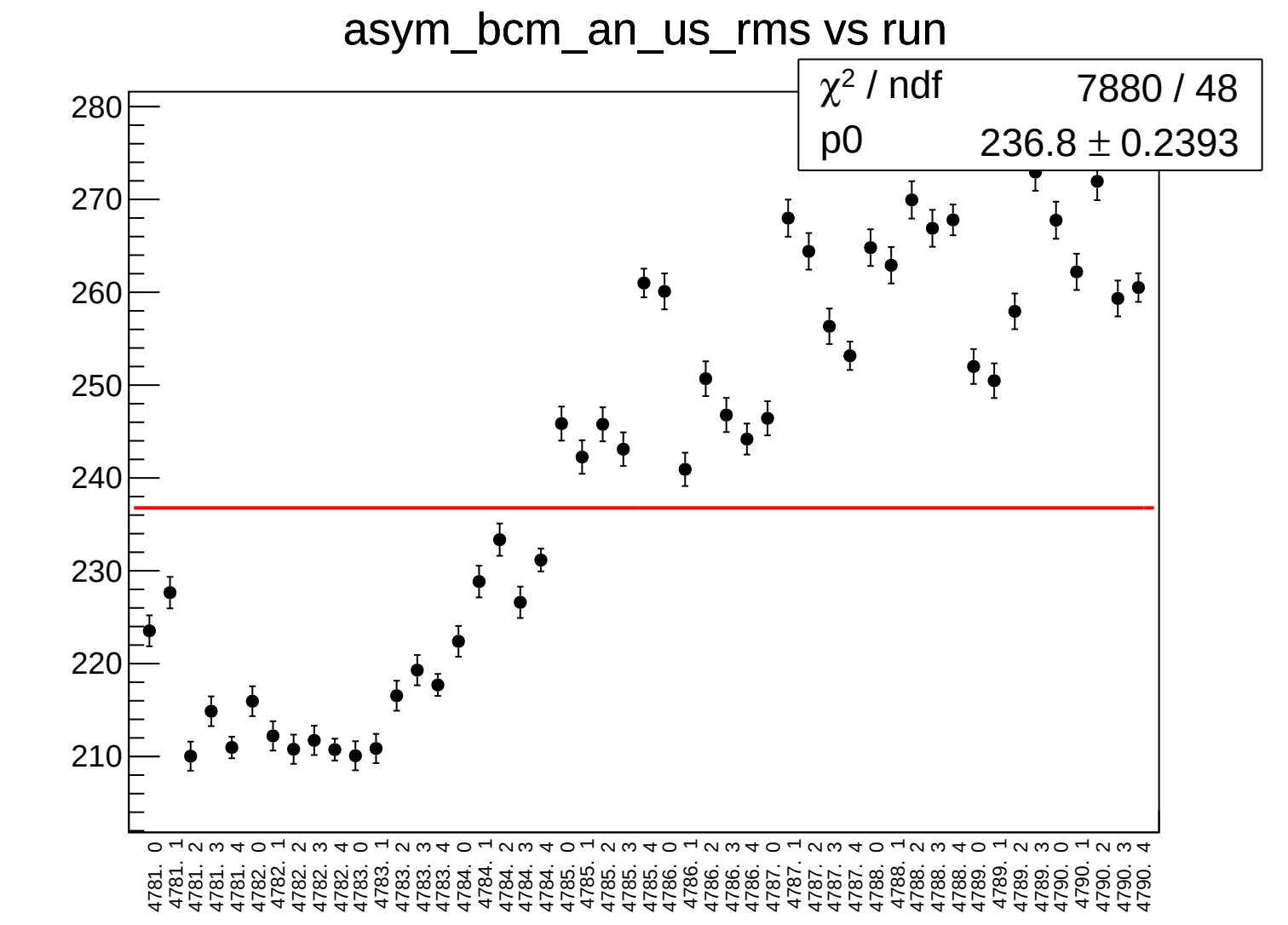

pull1D
Entries 49
Mean −0.008368
Std Dev 0.3599
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

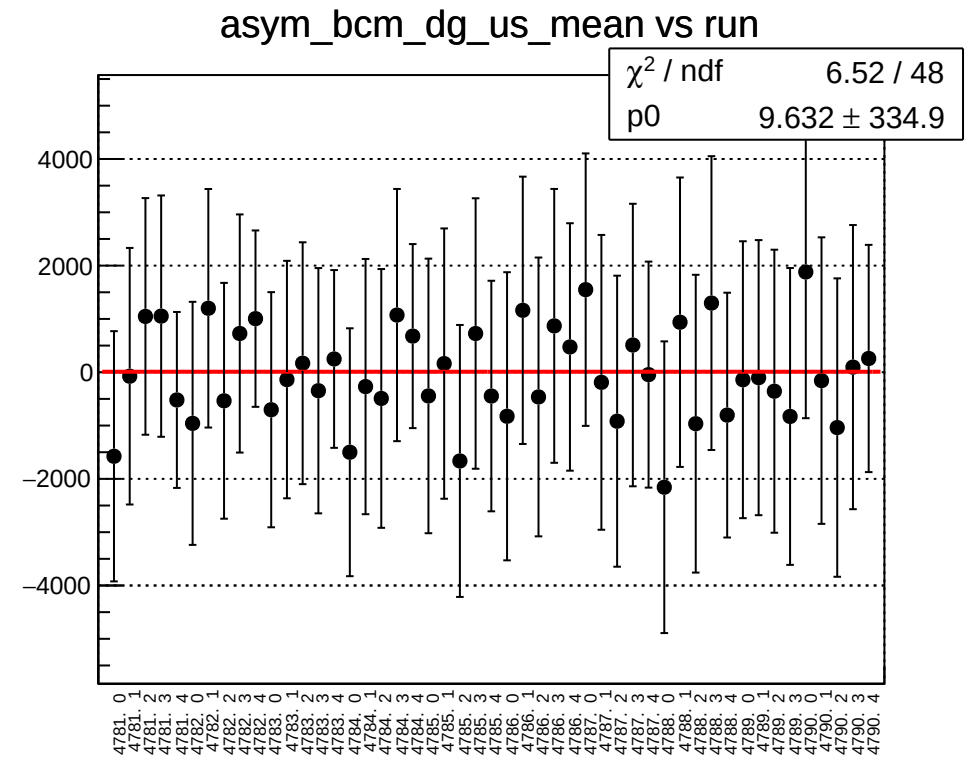

asym_bcm_an_ds3_rms vs run
χ² / ndf 7935 / 48
p0 241.2 ± 0.2438
280
270
260
250
240
230
220
210
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

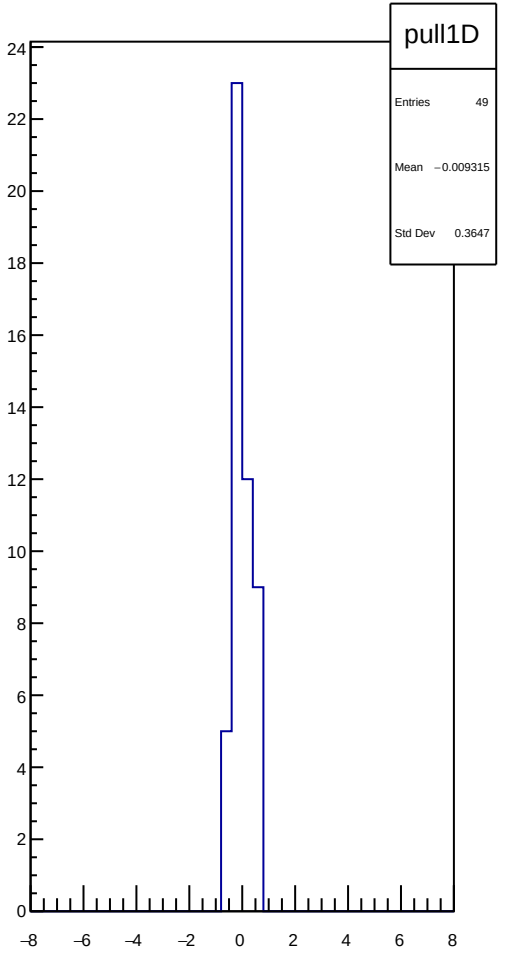

asym_bcm_an_us_mean vs run
χ² / ndf 6.897 / 48
p0 49.14 ± 338.4
4000
2000
0
−2000
−4000
−6000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

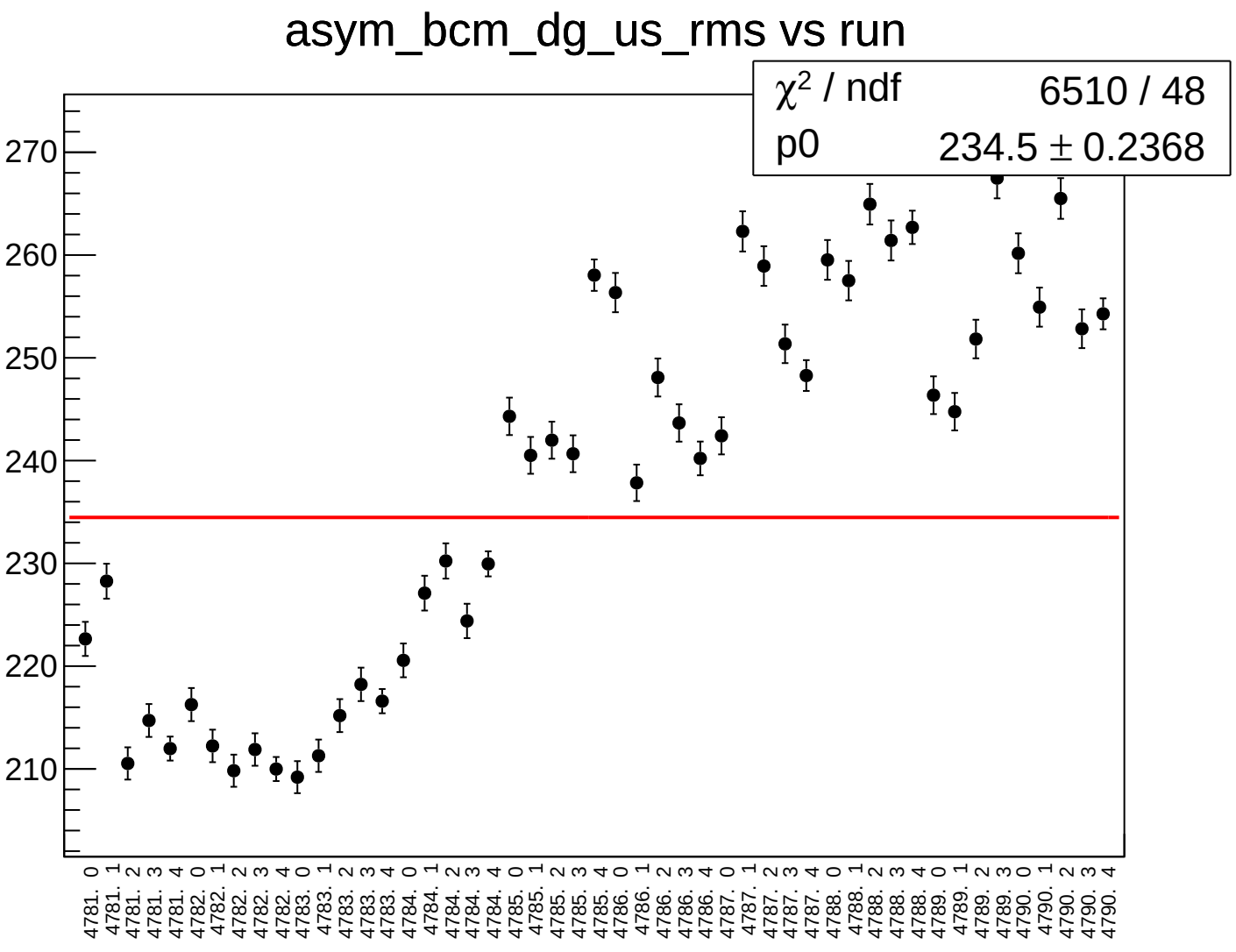

pull
Entries 49
Mean −19.96
Std Dev 21.42
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

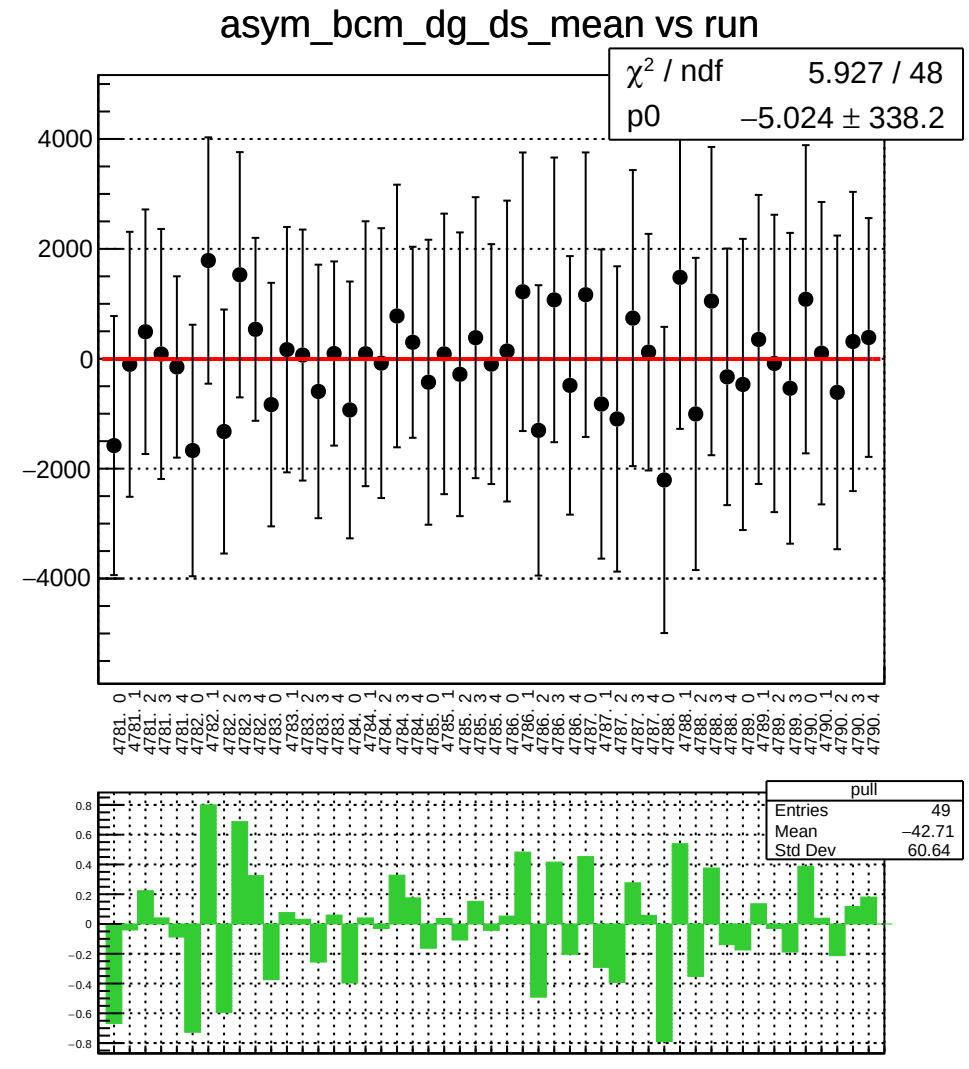

pull1D
Entries 49
Mean −0.002835
Std Dev 0.3752
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

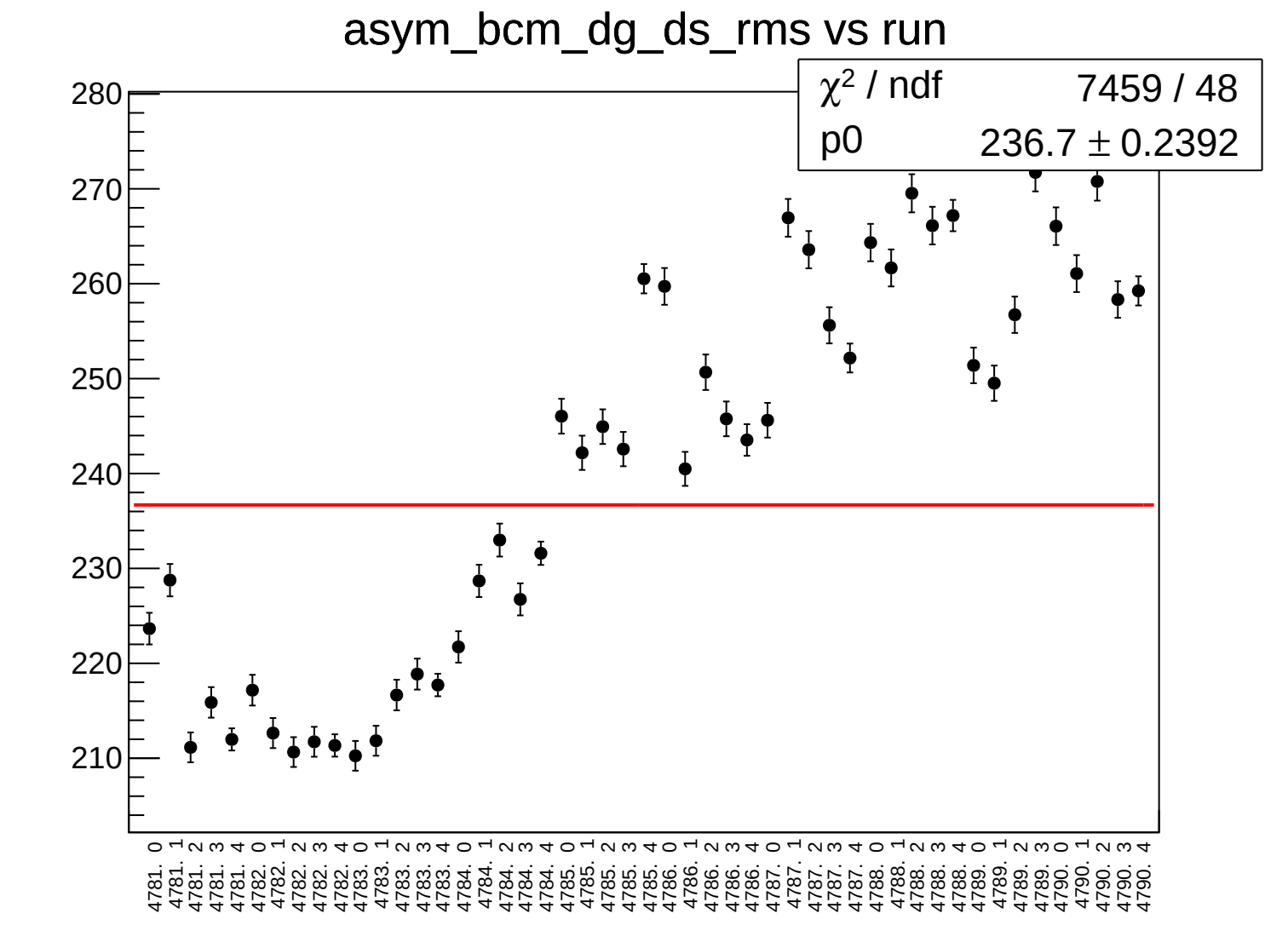

asym_bcm_an_us_rms vs run
χ² / ndf 7880 / 48
p0 236.8 ± 0.2393
280
270
260
250
240
230
220
210
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

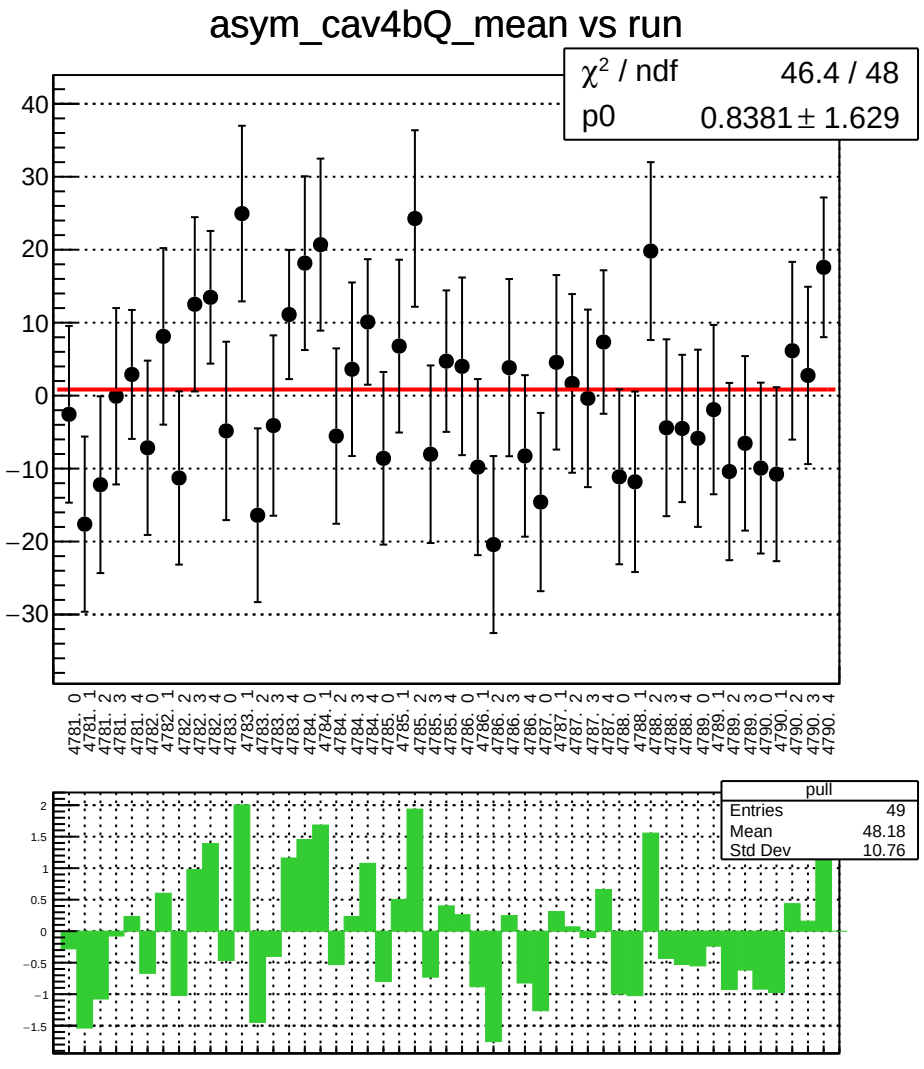

asym_bcm_dg_us_mean vs run
χ^2 / ndf 6.52 / 48
p0 9.632 ± 334.9
4000
2000
0
−2000
−4000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 33.11
Std Dev 16.93
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

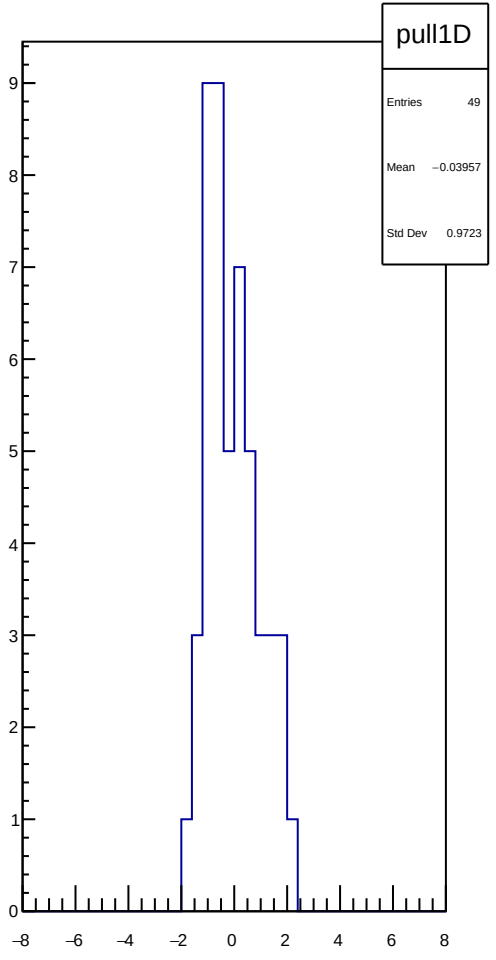

pull1D
Entries 49
Mean −0.009315
Std Dev 0.3647
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

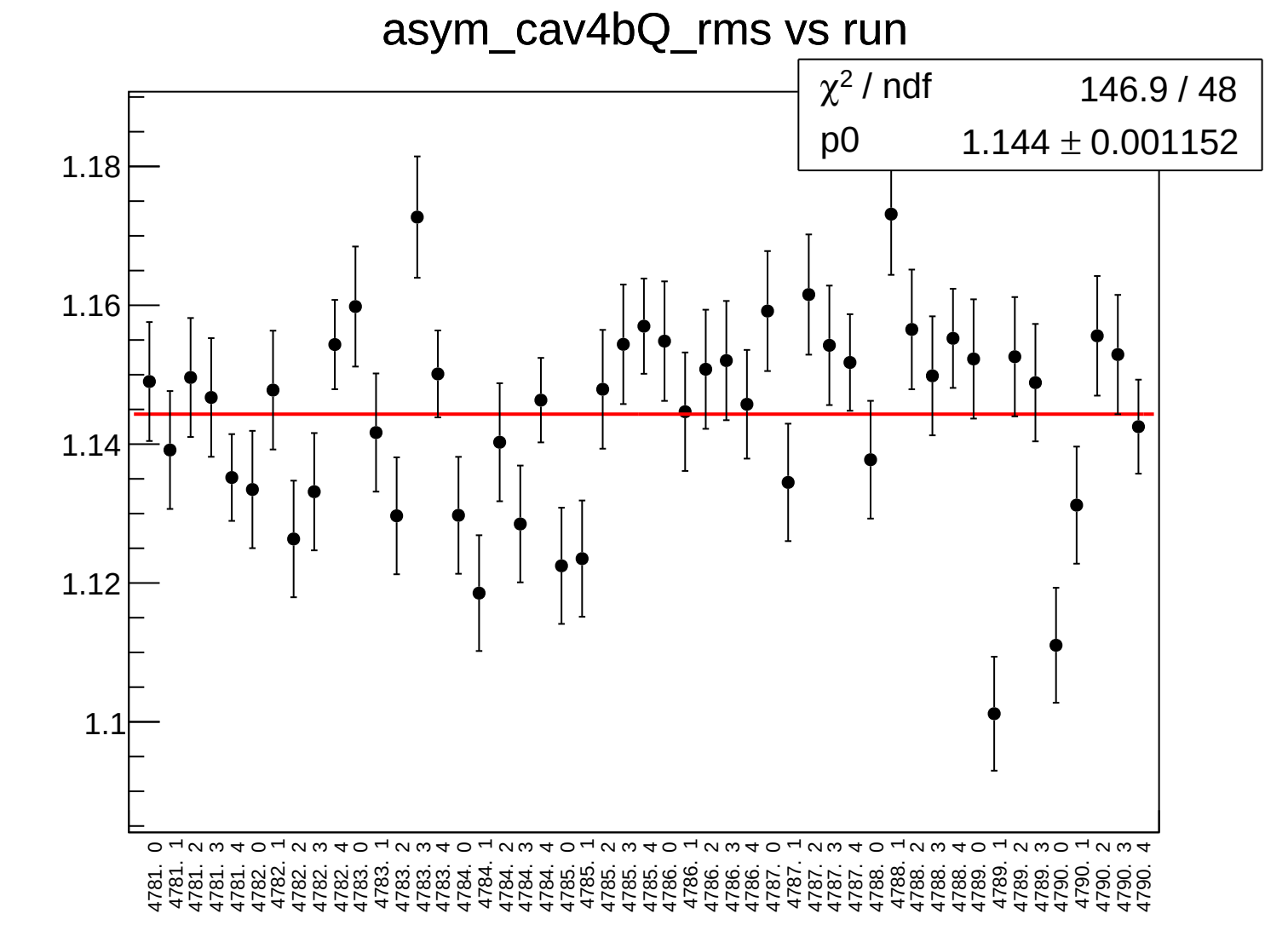

asym_bcm_dg_us_rms vs run
χ² / ndf 6510 / 48
p0 234.5 ± 0.2368
270
260
250
240
230
220
210
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

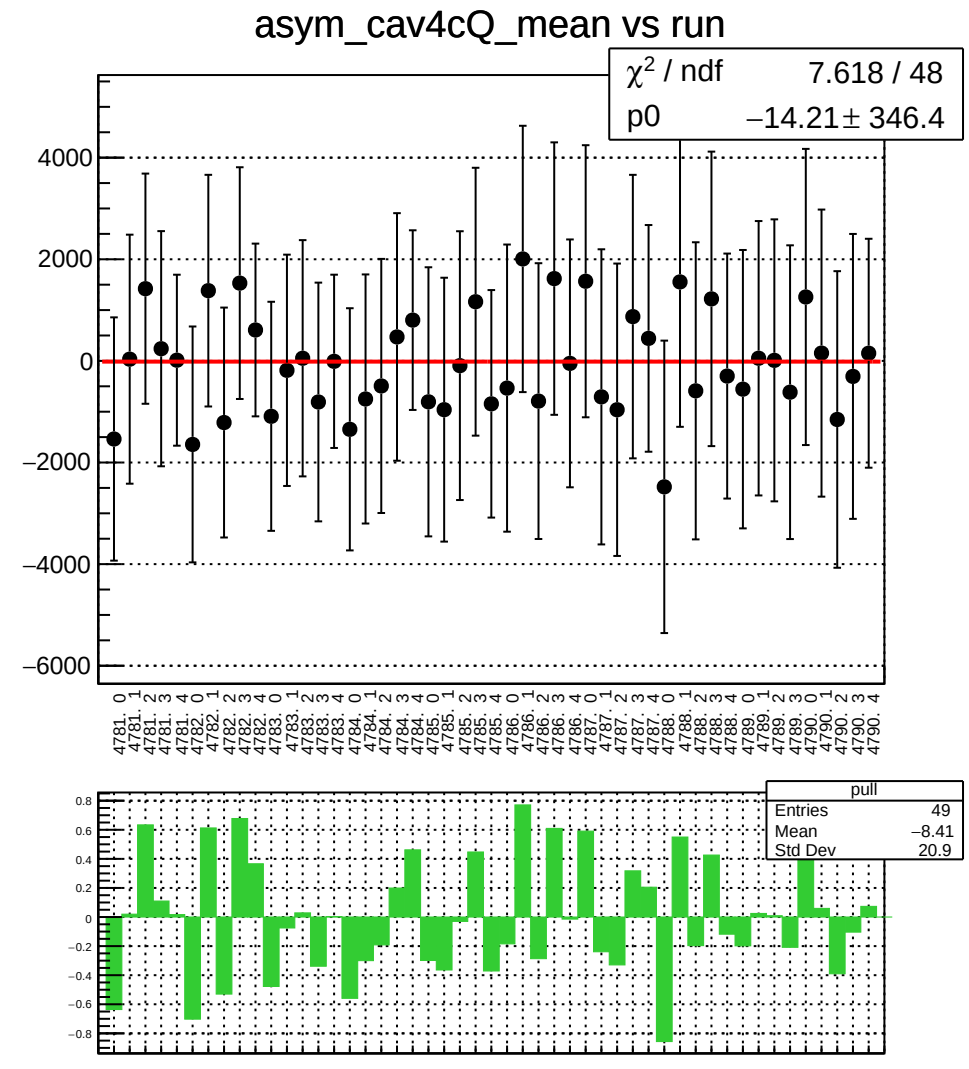

asym_bcm_dg_ds_mean vs run
χ² / ndf 5.927 / 48
p0 −5.024 ± 338.2
4000
2000
0
−2000
−4000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −42.71
Std Dev 60.64
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 49
Mean −0.005279
Std Dev 0.3478
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

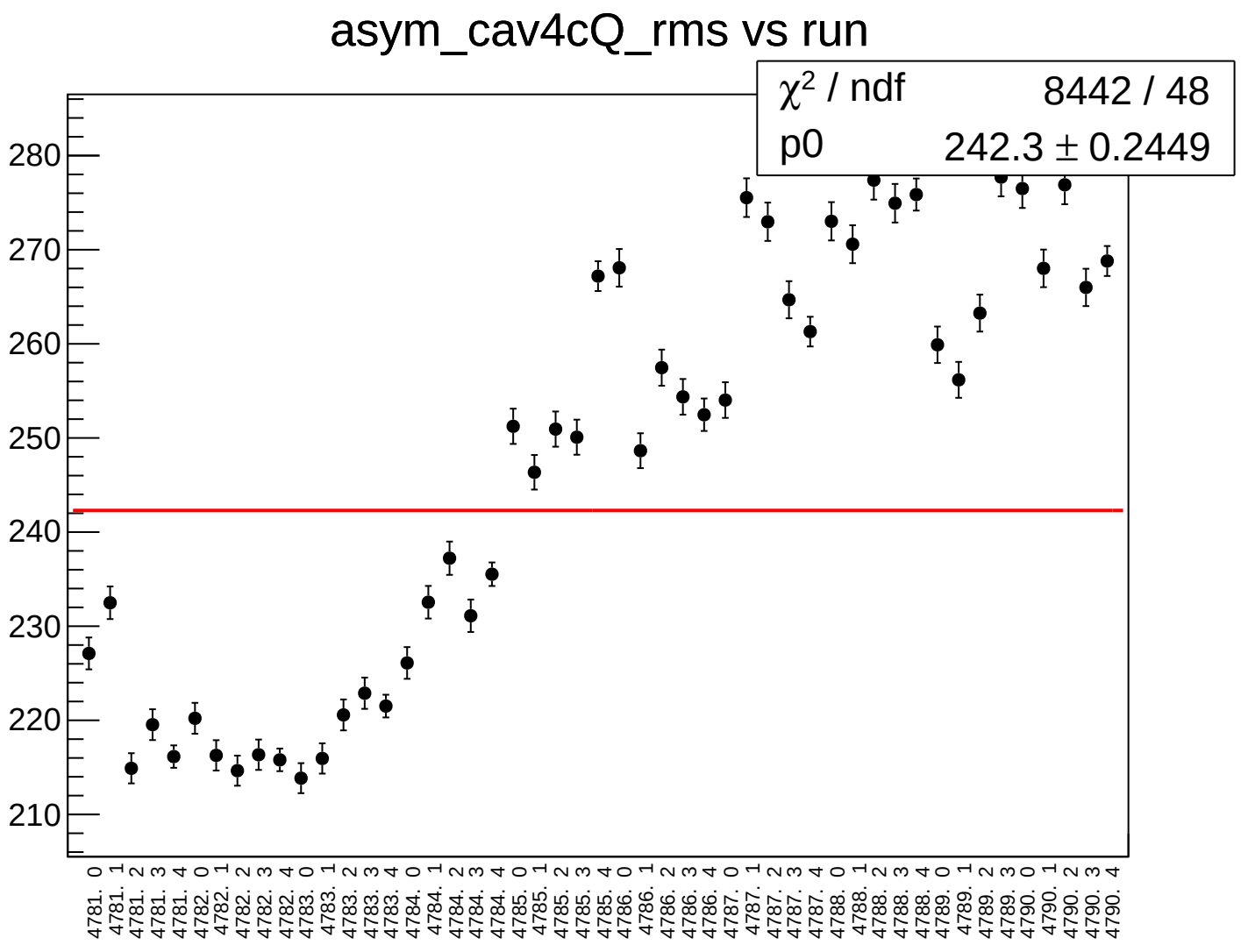

asym_bcm_dg_ds_rms vs run
χ² / ndf 7459 / 48
p0 236.7 ± 0.2392
280
270
260
250
240
230
220
210
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

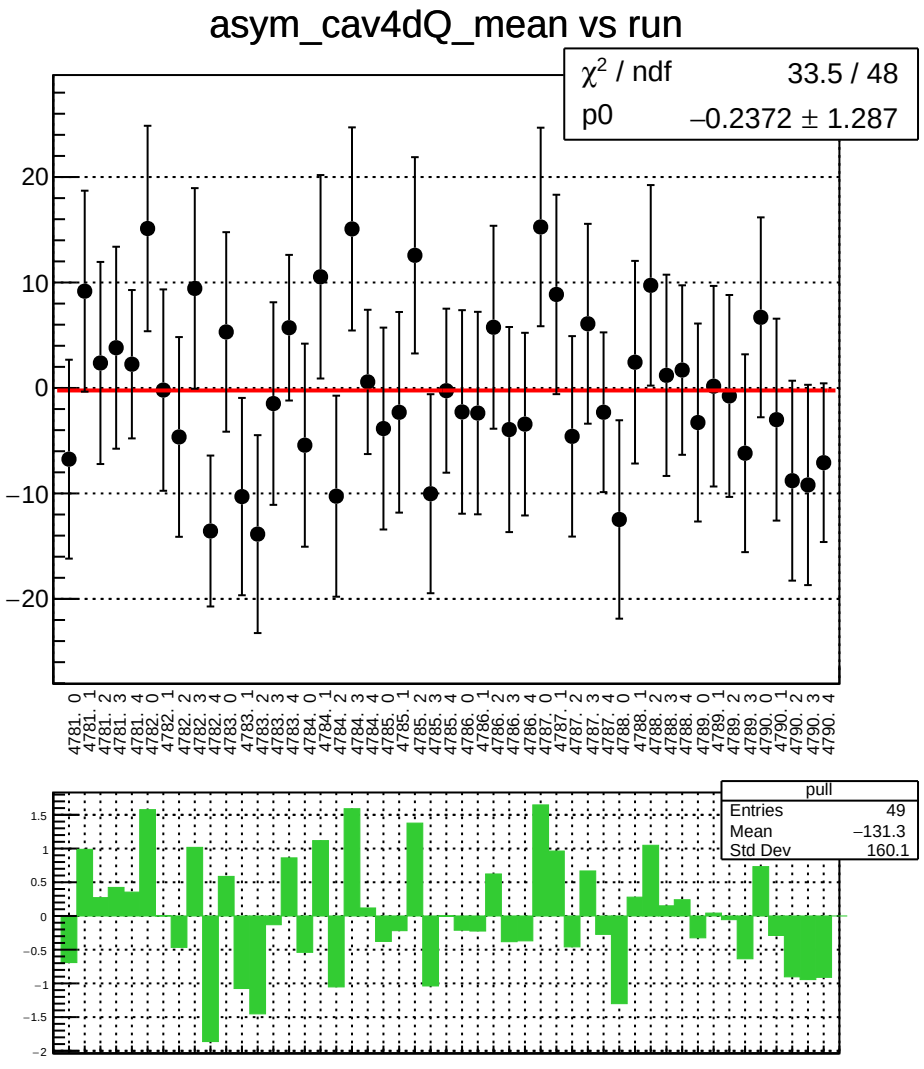

asym_cav4bQ_mean vs run
χ² / ndf 46.4 / 48
p0 0.8381 ± 1.629
pull
Entries 49
Mean 48.18
Std Dev 10.76

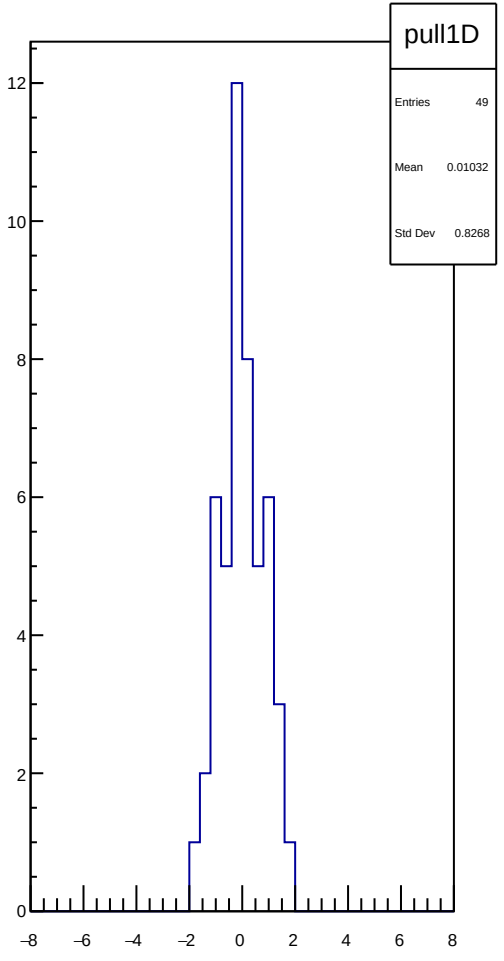

pull1D
Entries 49
Mean −0.03957
Std Dev 0.9723

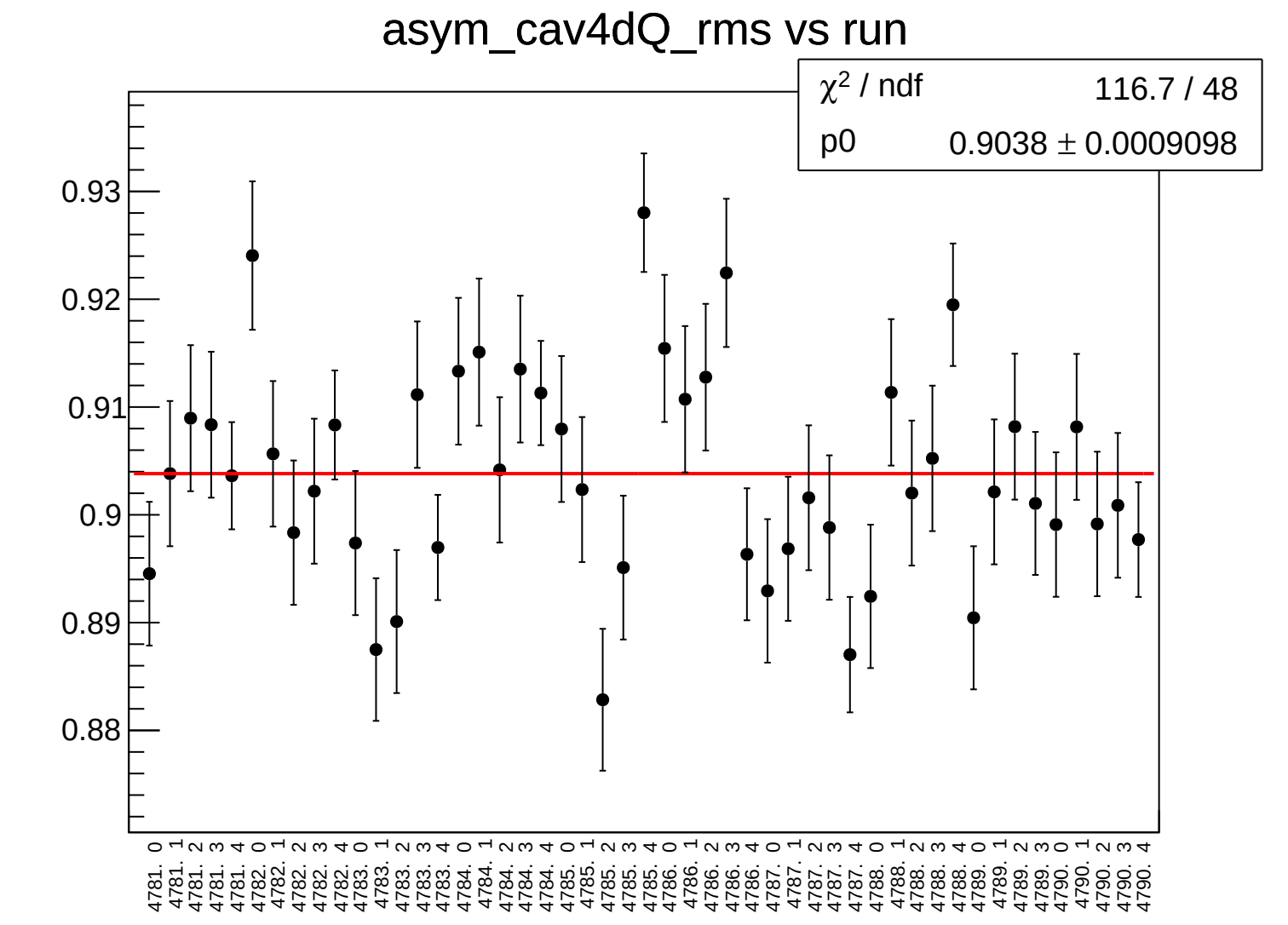

asym_cav4bQ_rms vs run
χ² / ndf 146.9 / 48
p0 1.144 ± 0.001152
1.18
1.16
1.14
1.12
1.1
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

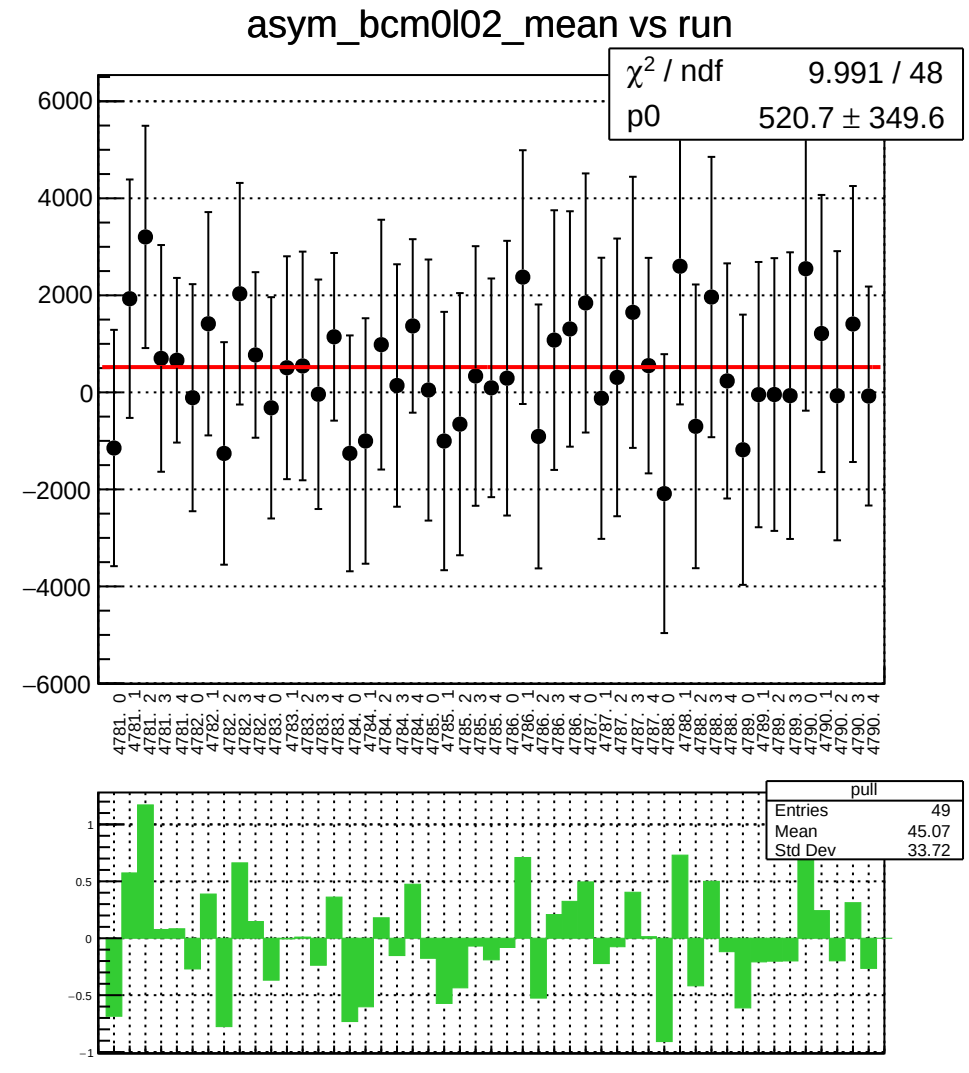

asym_cav4cQ_mean vs run
χ² / ndf 7.618 / 48
p0 −14.21 ± 346.4
4000
2000
0
−2000
−4000
−6000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −8.41
Std Dev 20.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 49
Mean −0.007105
Std Dev 0.3942
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

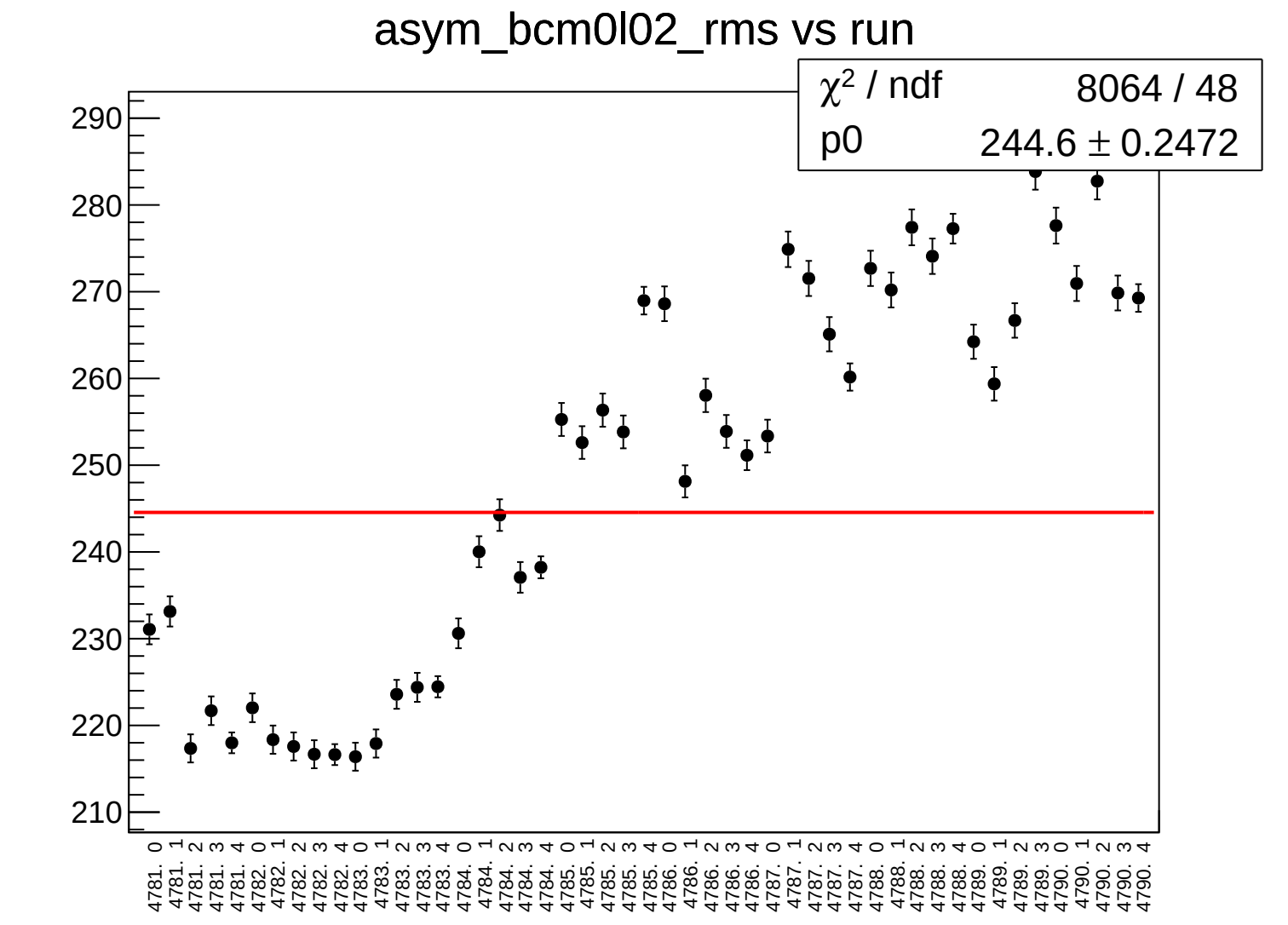

asym_cav4cQ_rms vs run
χ² / ndf 8442 / 48
p0 242.3 ± 0.2449
280
270
260
250
240
230
220
210
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

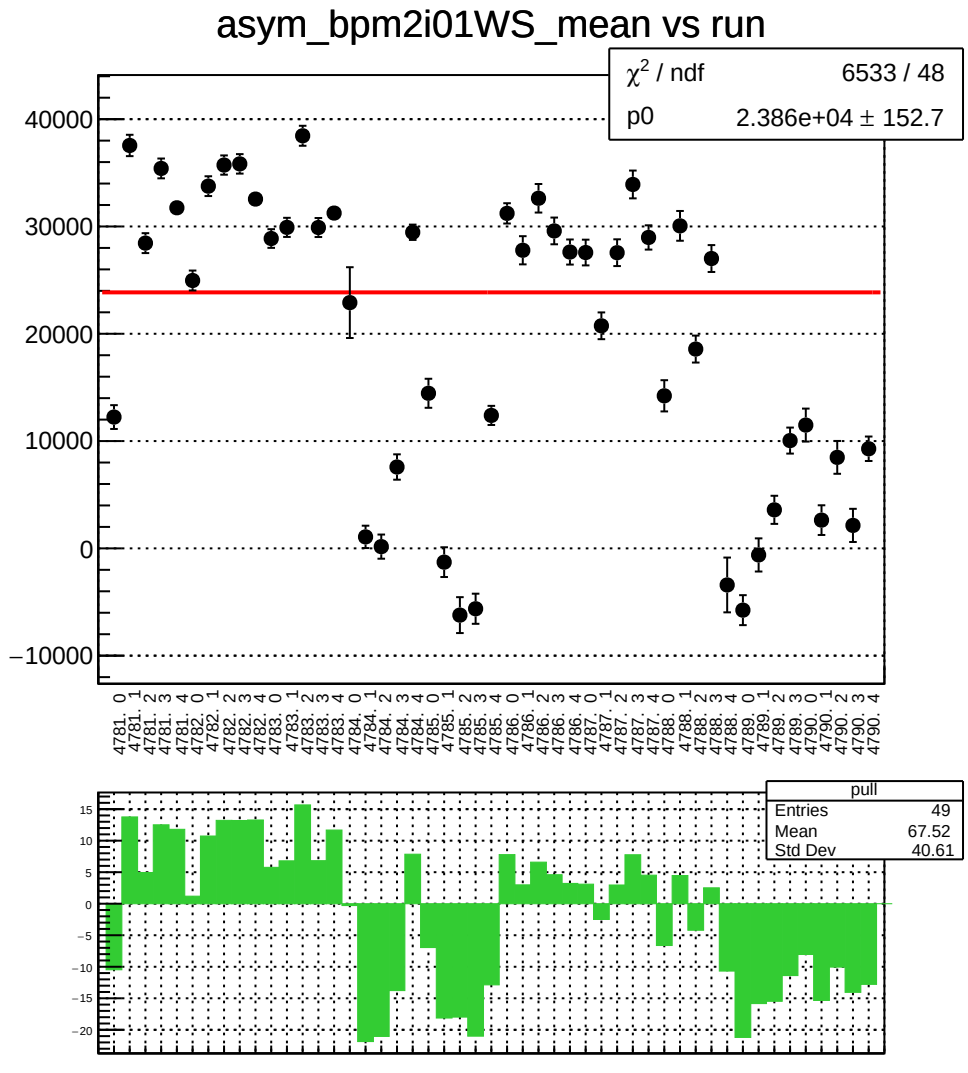

asym_cav4dQ_mean vs run
χ² / ndf 33.5 / 48
p0 −0.2372 ± 1.287
pull
Entries 49
Mean −131.3
Std Dev 160.1

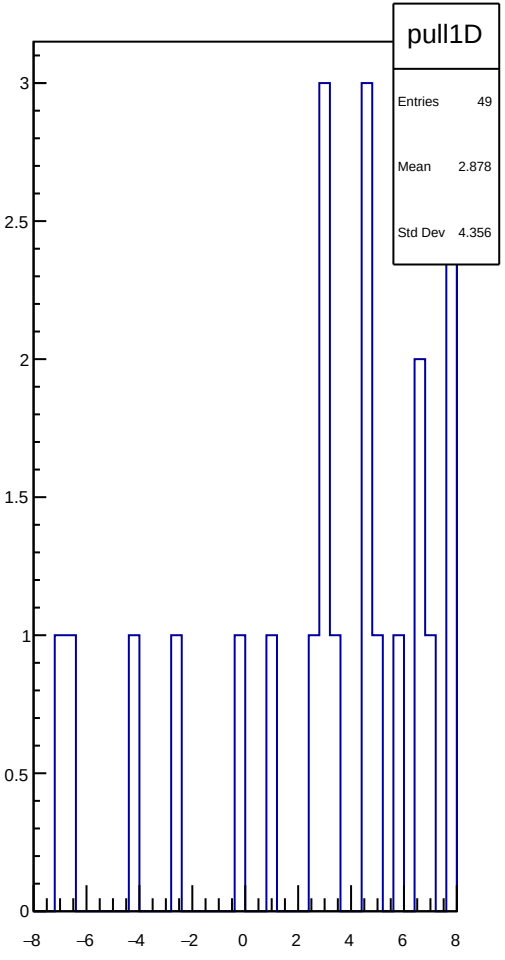

pull1D
Entries 49
Mean 0.01032
Std Dev 0.8268

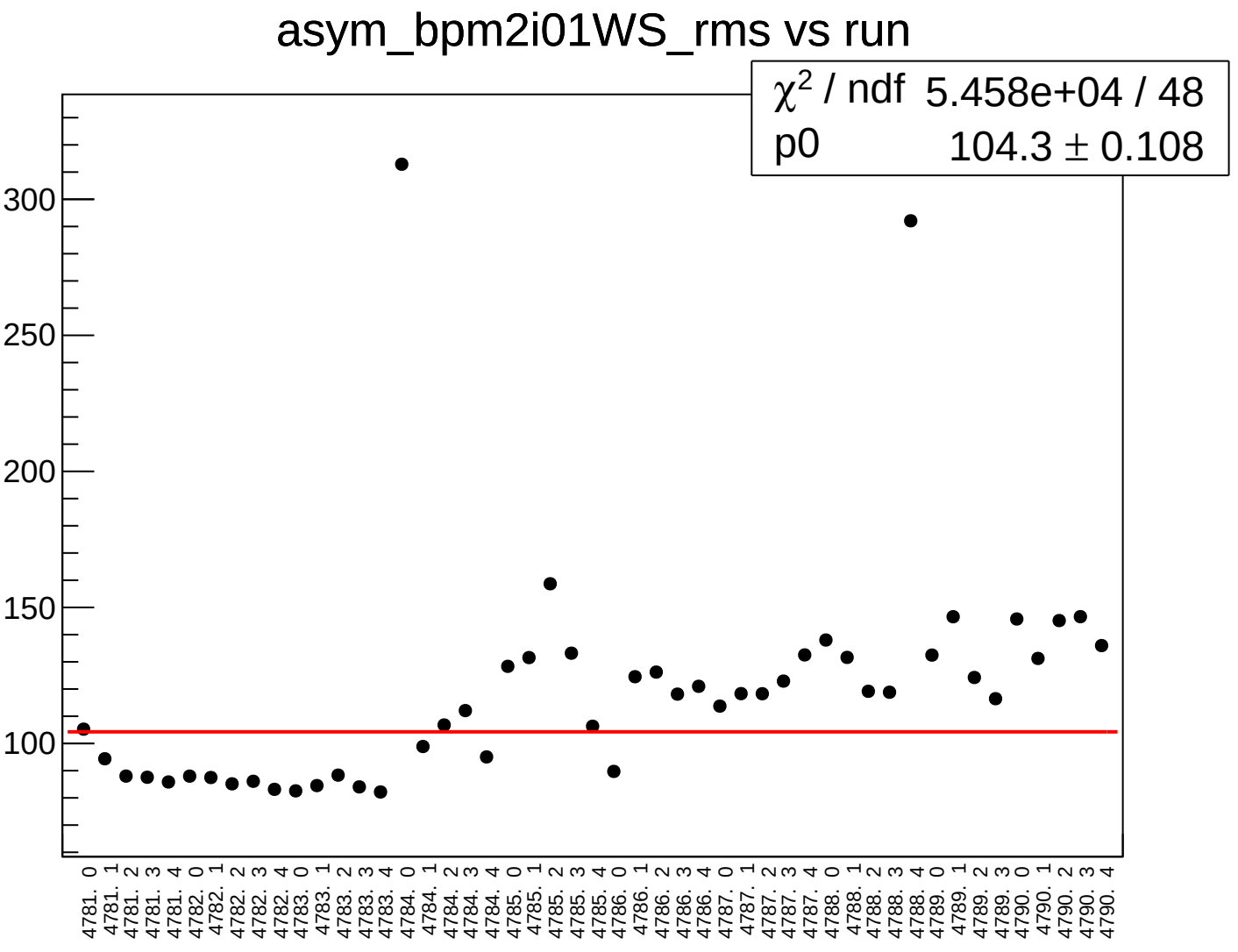

asym_cav4dQ_rms vs run
χ² / ndf 116.7 / 48
p0 0.9038 ± 0.0009098
0.93
0.92
0.91
0.9
0.89
0.88
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

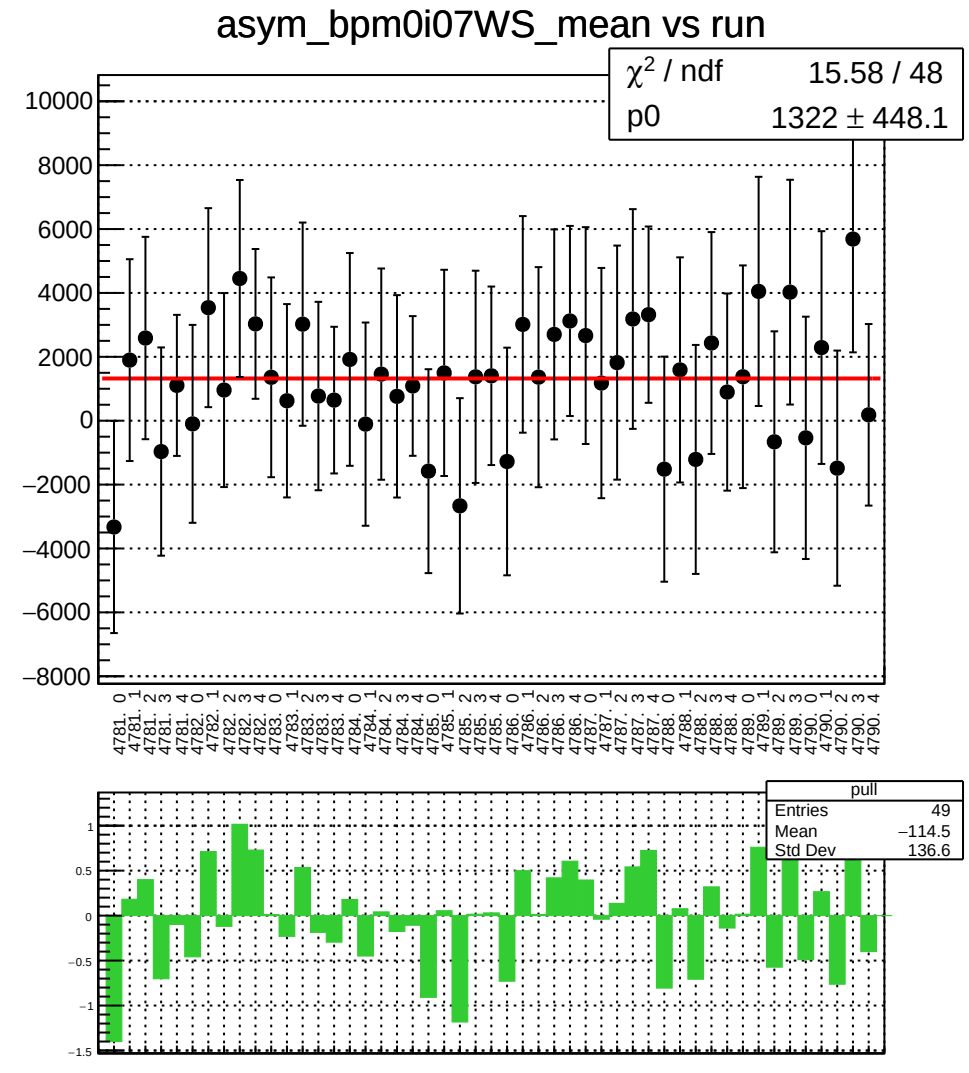

asym_bcm0l02_mean vs run
χ² / ndf 9.991 / 48
p0 520.7 ± 349.6
6000
4000
2000
0
−2000
−4000
−6000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 45.07
Std Dev 33.72
1
0.5
0
−0.5
−1
pull1D
Entries 49
Mean −0.01094
Std Dev 0.4514
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

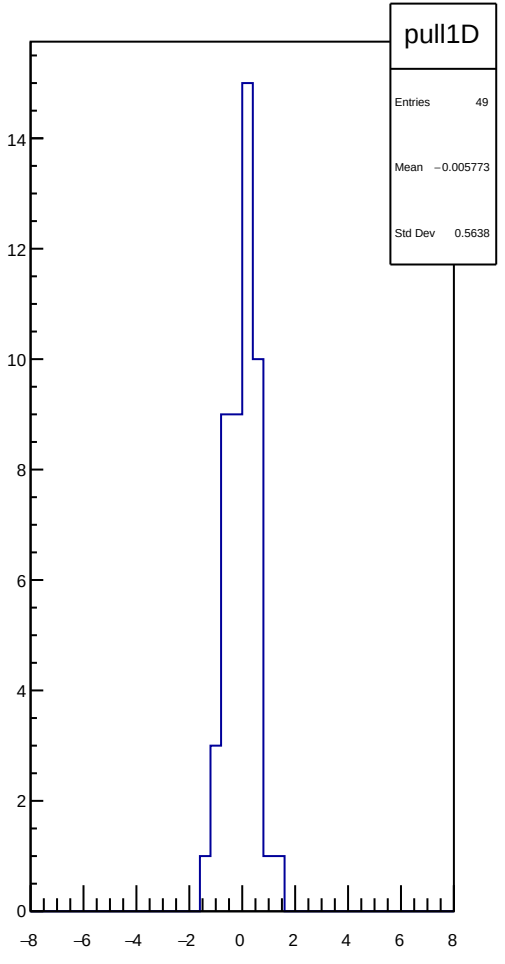

asym_bcm0l02_rms vs run
χ² / ndf 8064 / 48
p0 244.6 ± 0.2472
290
280
270
260
250
240
230
220
210
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

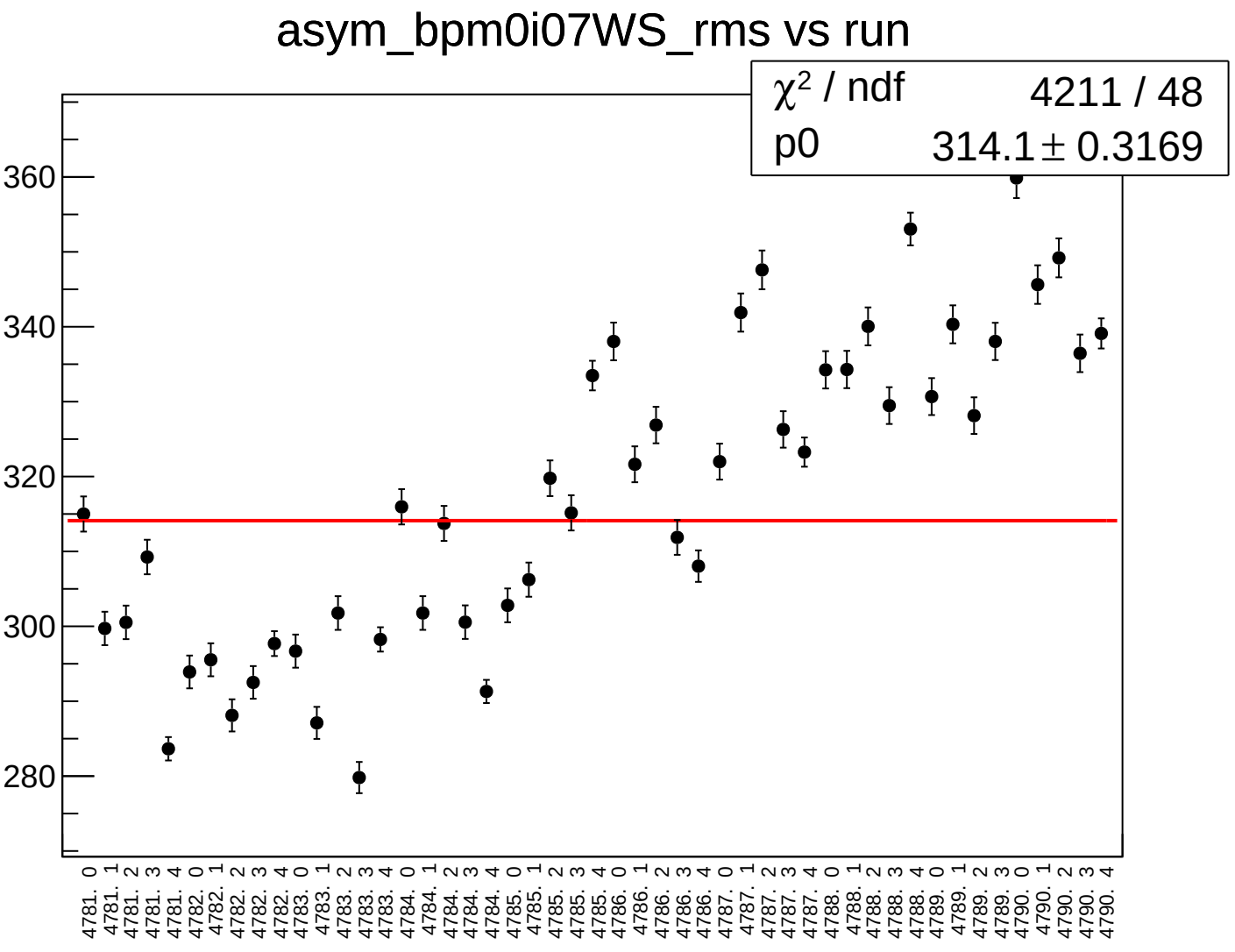

asym_bpm2i01WS_mean vs run
χ² / ndf 6533 / 48
p0 2.386e+04 ± 152.7
pull
Entries 49
Mean 67.52
Std Dev 40.61

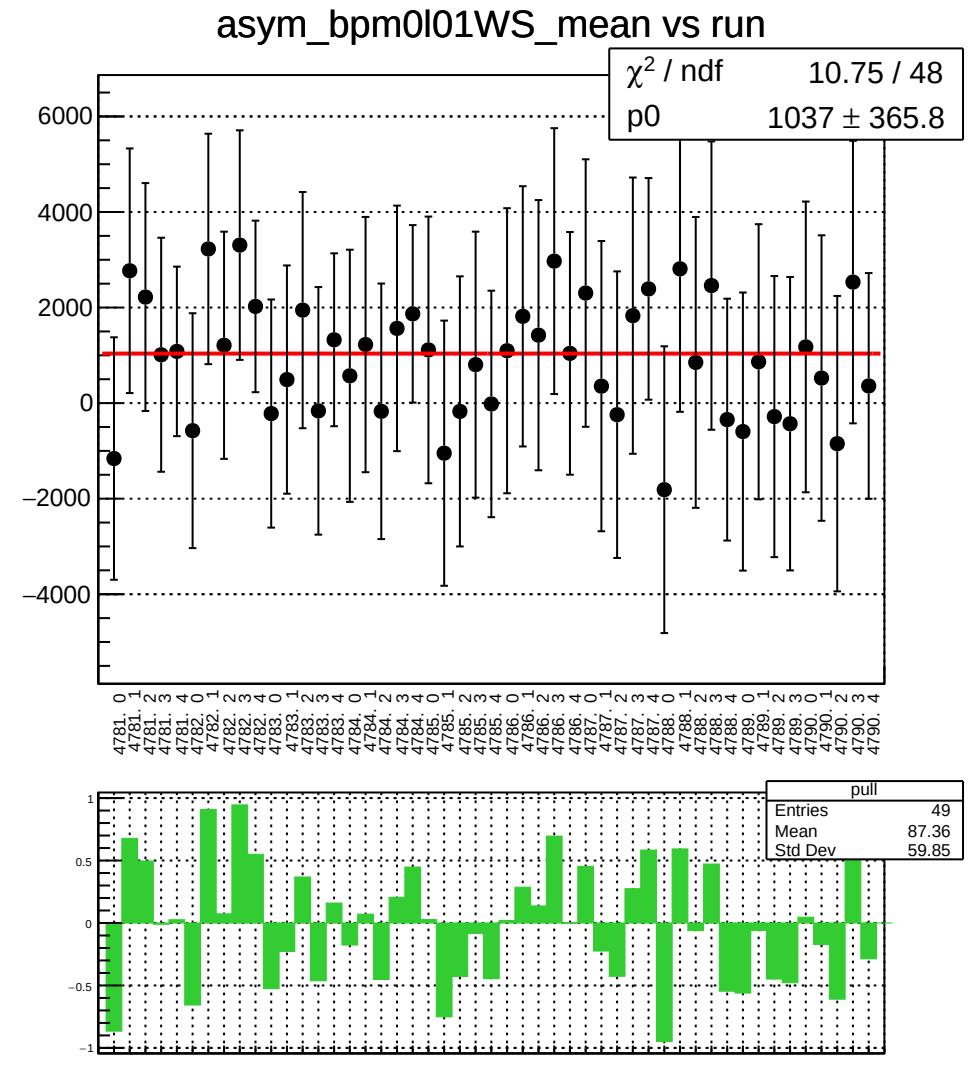

pull1D
Entries 49
Mean 2.878
Std Dev 4.356

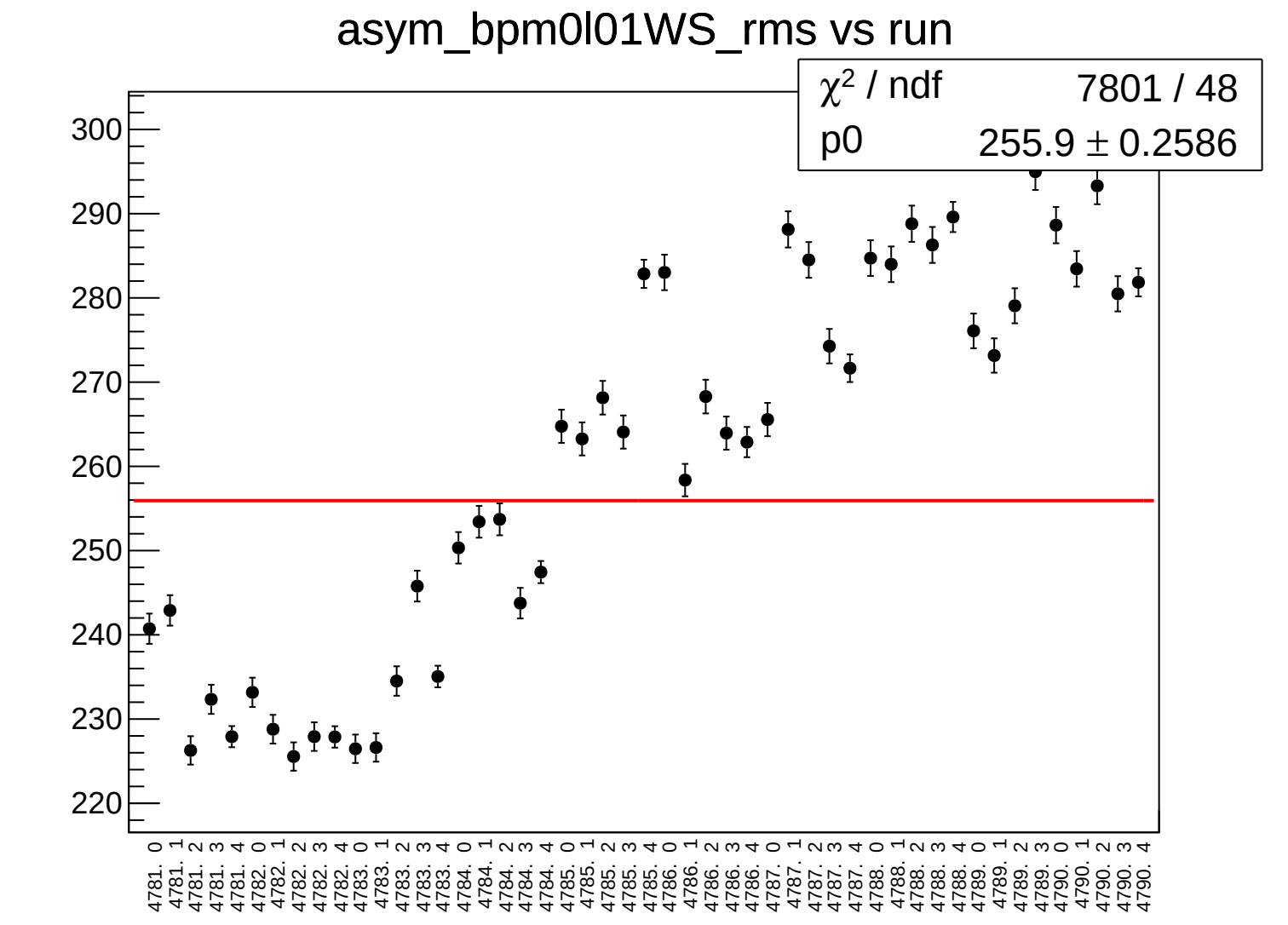

asym_bpm2i01WS_rms vs run
χ^2 / ndf 5.458e+04 / 48
p0 104.3 ± 0.108
300
250
200
150
100
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

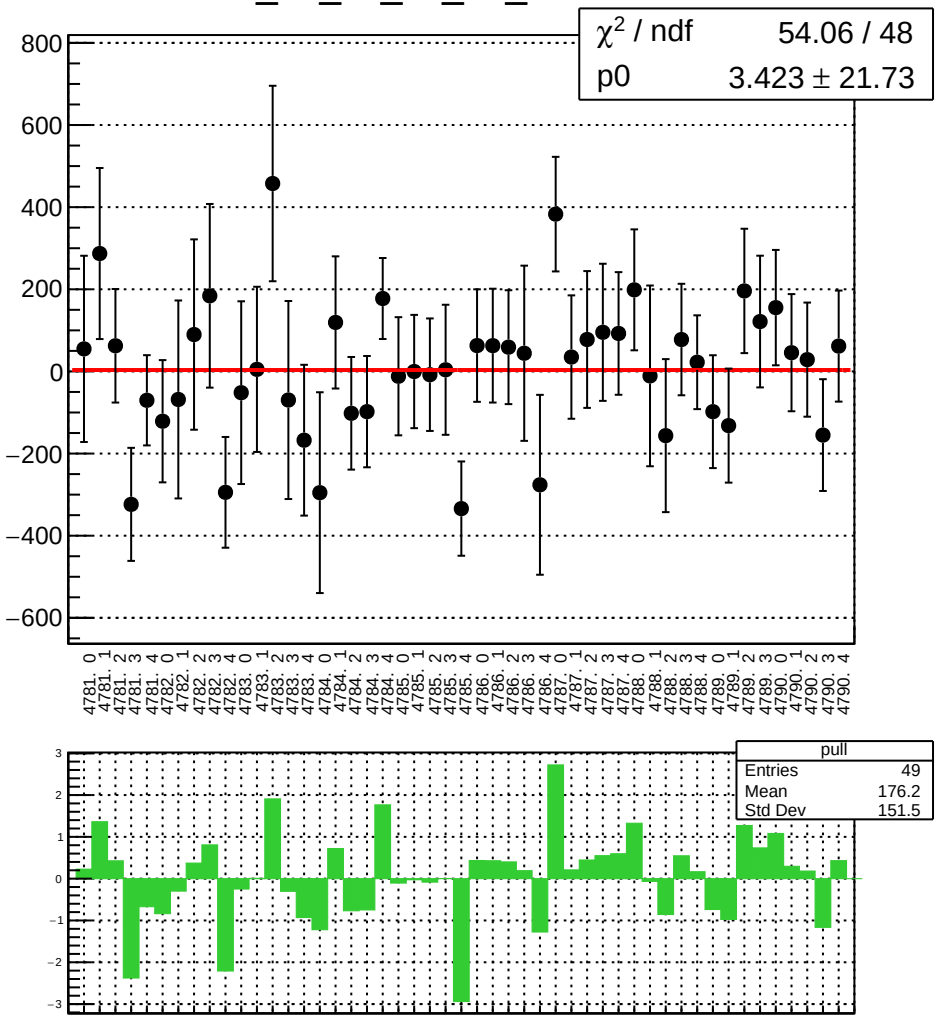

asym_bpm0i07WS_mean vs run
χ² / ndf 15.58 / 48
p0 1322 ± 448.1
pull
Entries 49
Mean −114.5
Std Dev 136.6

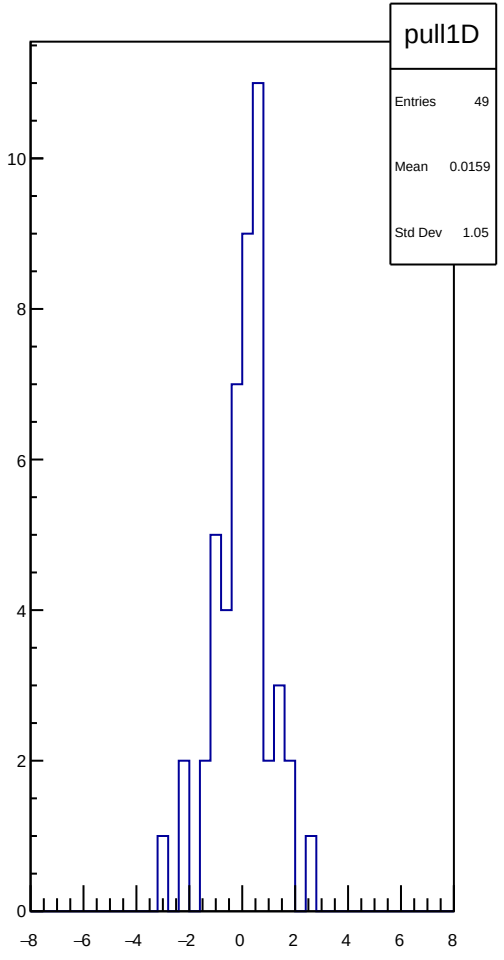

pull1D
Entries 49
Mean −0.005773
Std Dev 0.5638

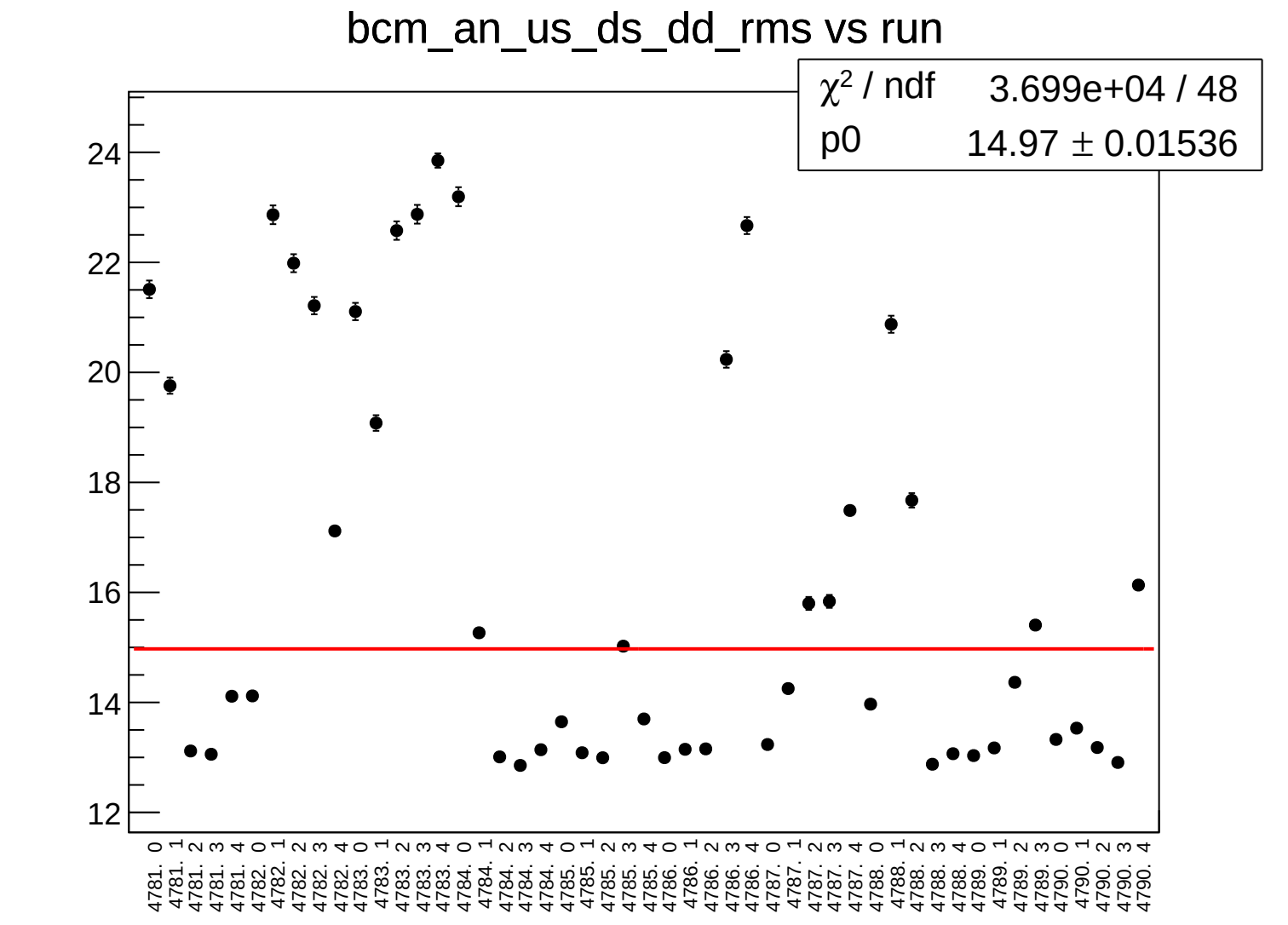

asym_bpm0i07WS_rms vs run
χ² / ndf 4211 / 48
p0 314.1 ± 0.3169
360
340
320
300
280
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

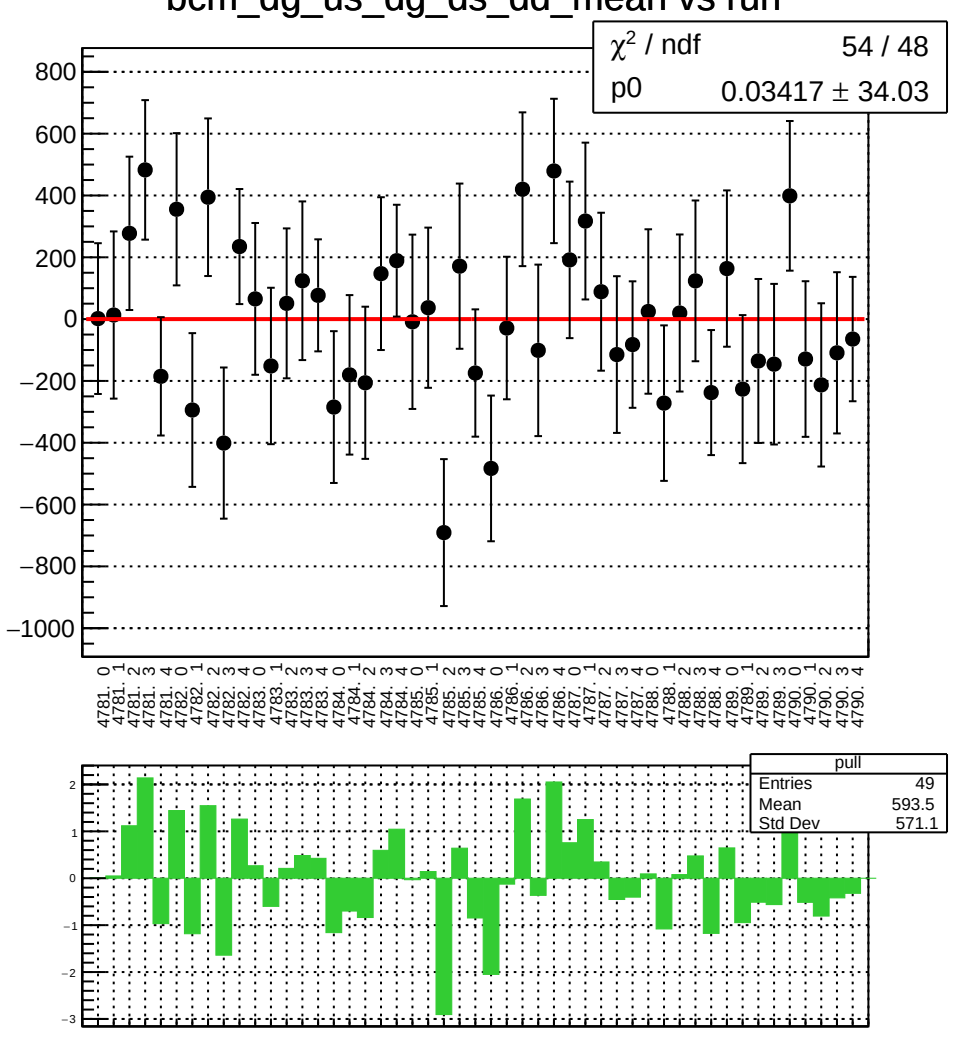

asym_bpm0l01WS_mean vs run
χ² / ndf 10.75 / 48
p0 1037 ± 365.8
6000
4000
2000
0
−2000
−4000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 87.36
Std Dev 59.85
1
0.5
0
−0.5
−1
pull1D
Entries 49
Mean −0.01806
Std Dev 0.4681
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

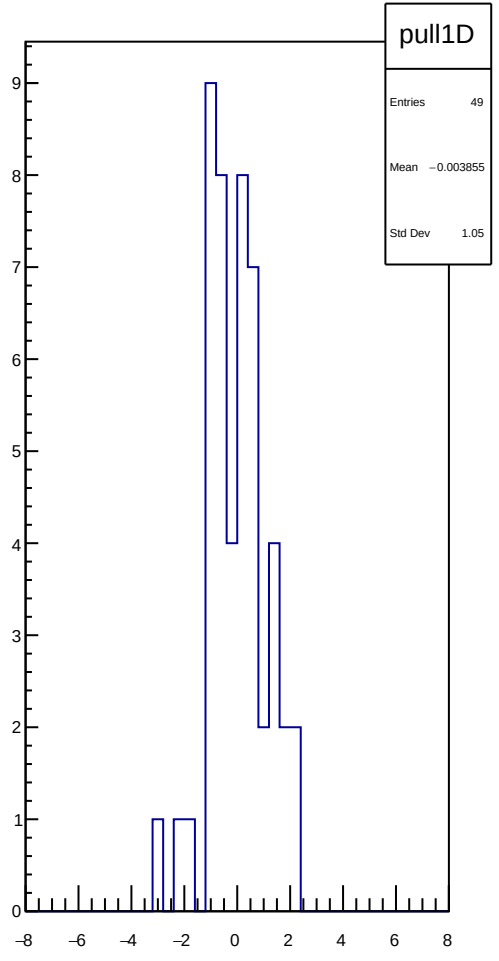

asym_bpm0l01WS_rms vs run
χ² / ndf 7801 / 48
p0 255.9 ± 0.2586
300
290
280
270
260
250
240
230
220
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

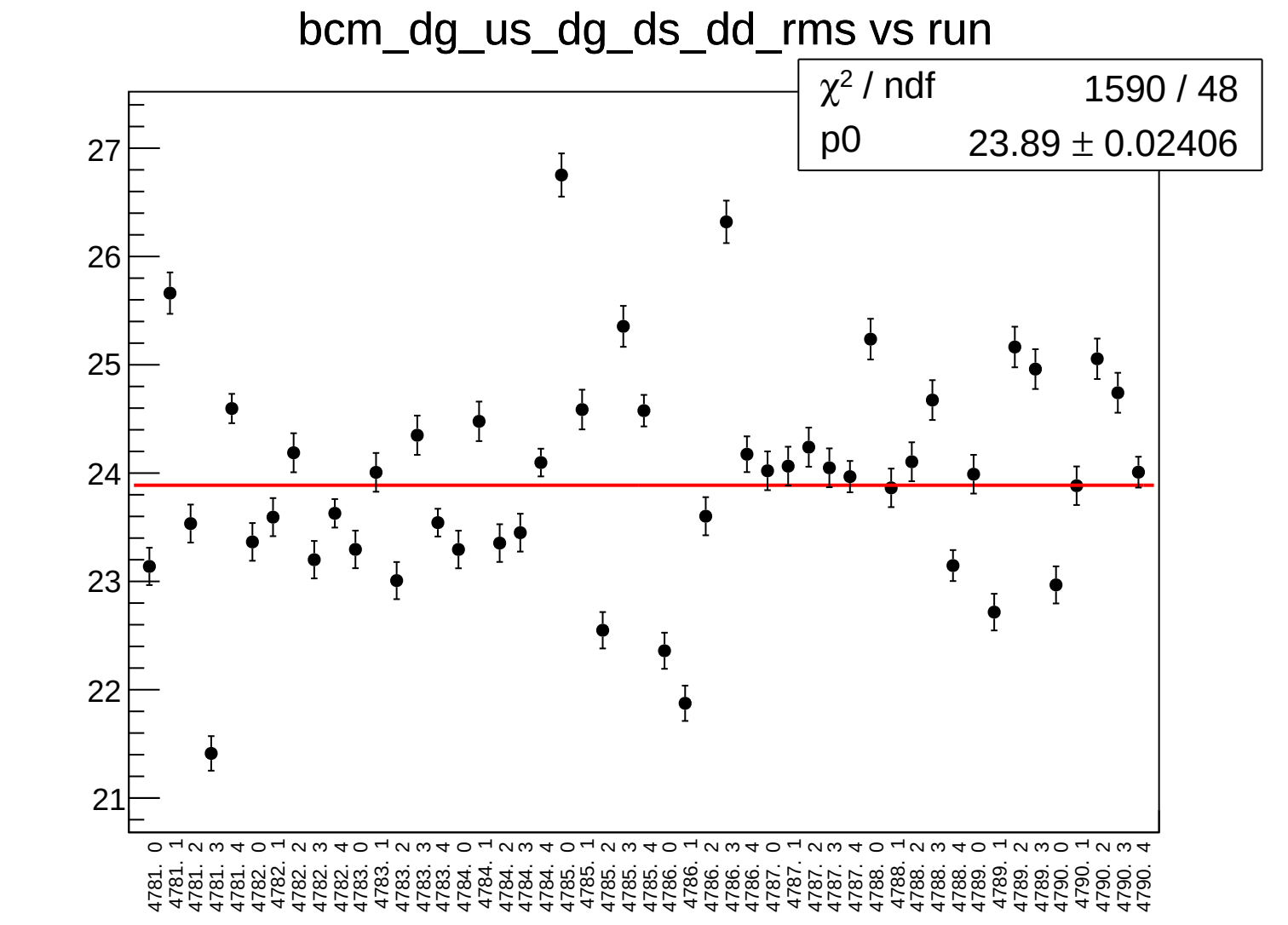

bcm_an_us_ds_dd_mean vs run
χ² / ndf 54.06 / 48
p0 3.423 ± 21.73
pull
Entries 49
Mean 176.2
Std Dev 151.5

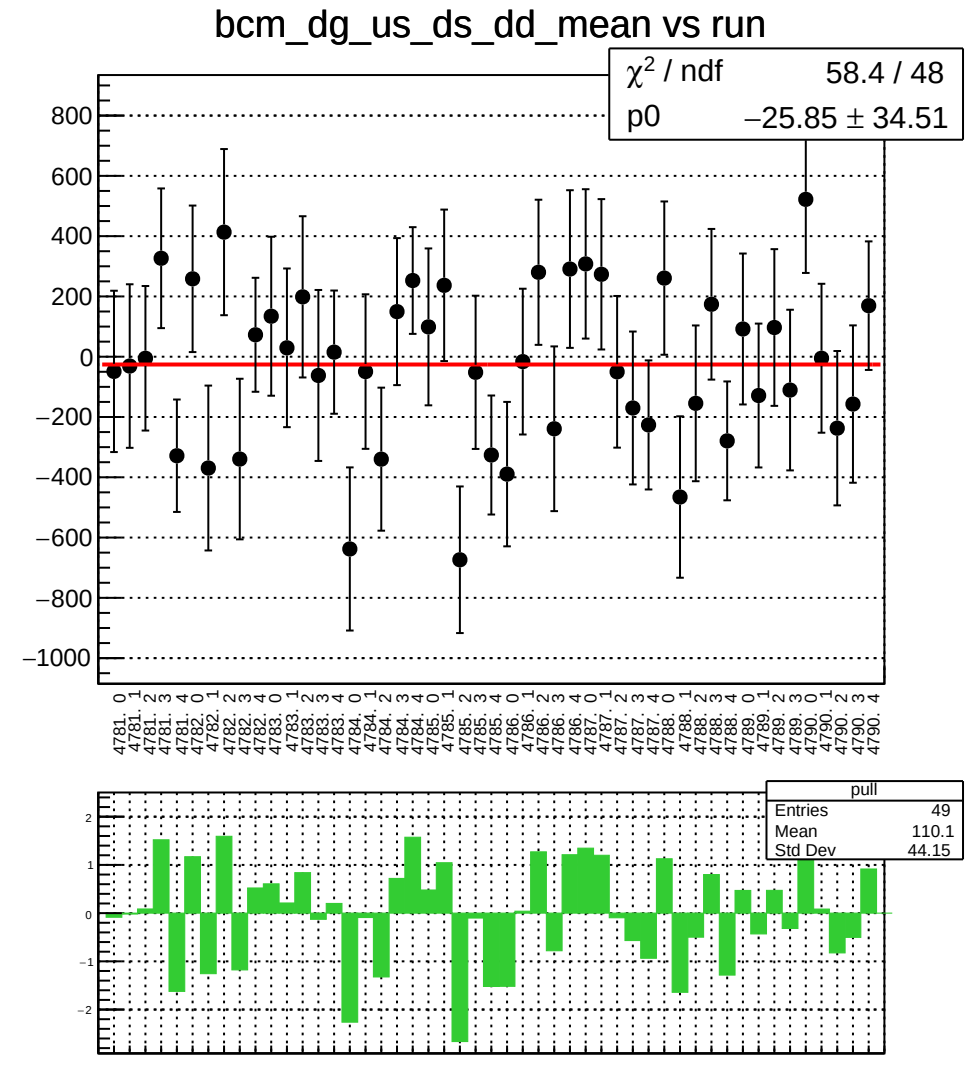

pull1D
Entries 49
Mean 0.0159
Std Dev 1.05

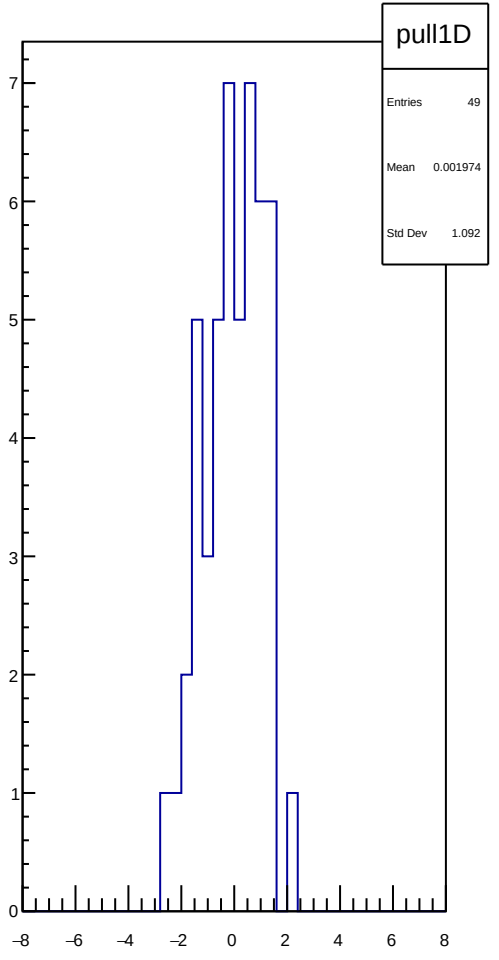

bcm_an_us_ds_dd_rms vs run
χ² / ndf 3.699e+04 / 48
p0 14.97 ± 0.01536
24
22
20
18
16
14
12
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

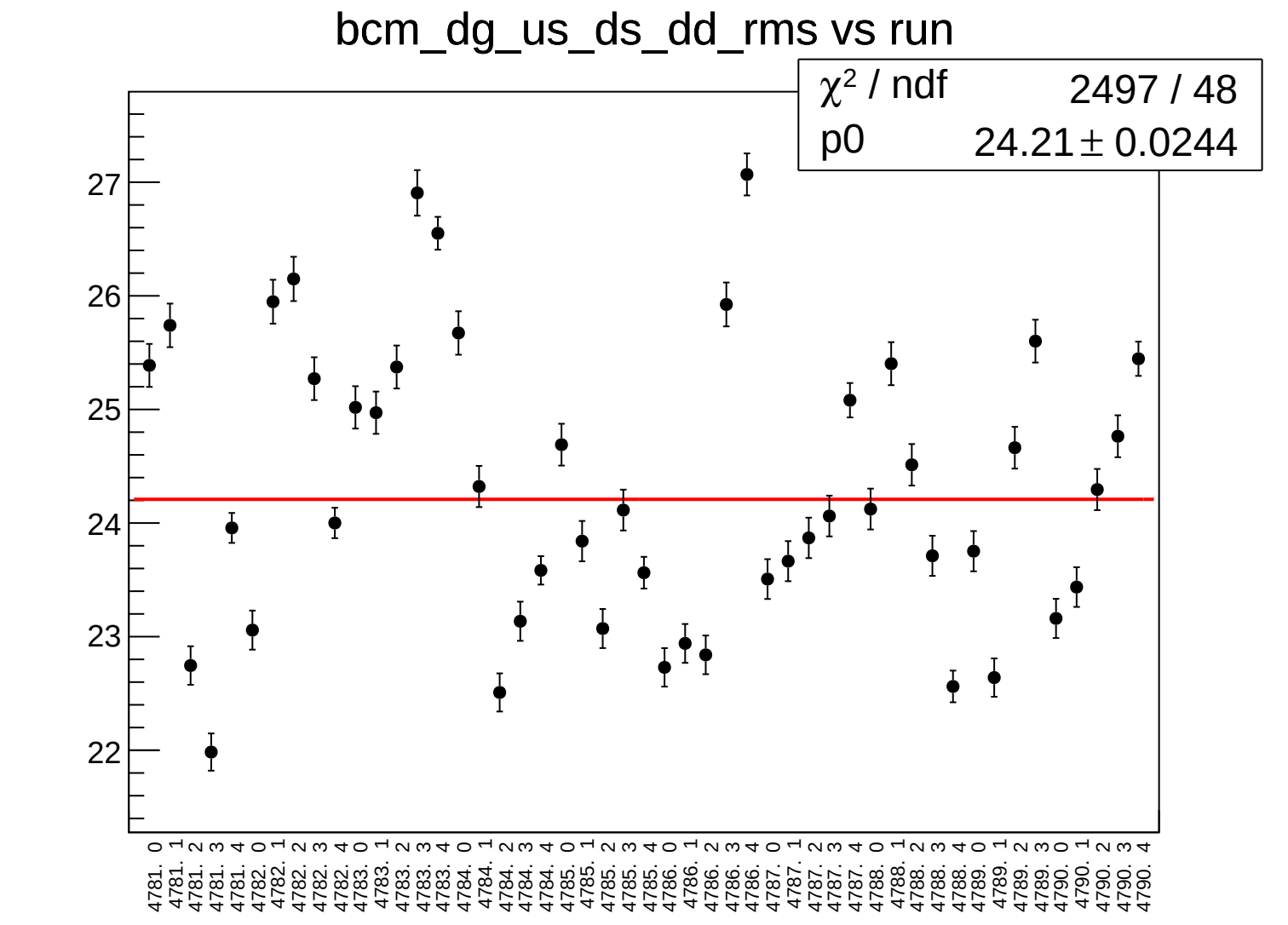

bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 54 / 48
p0 0.03417 ± 34.03
pull
Entries 49
Mean 593.5
Std Dev 571.1

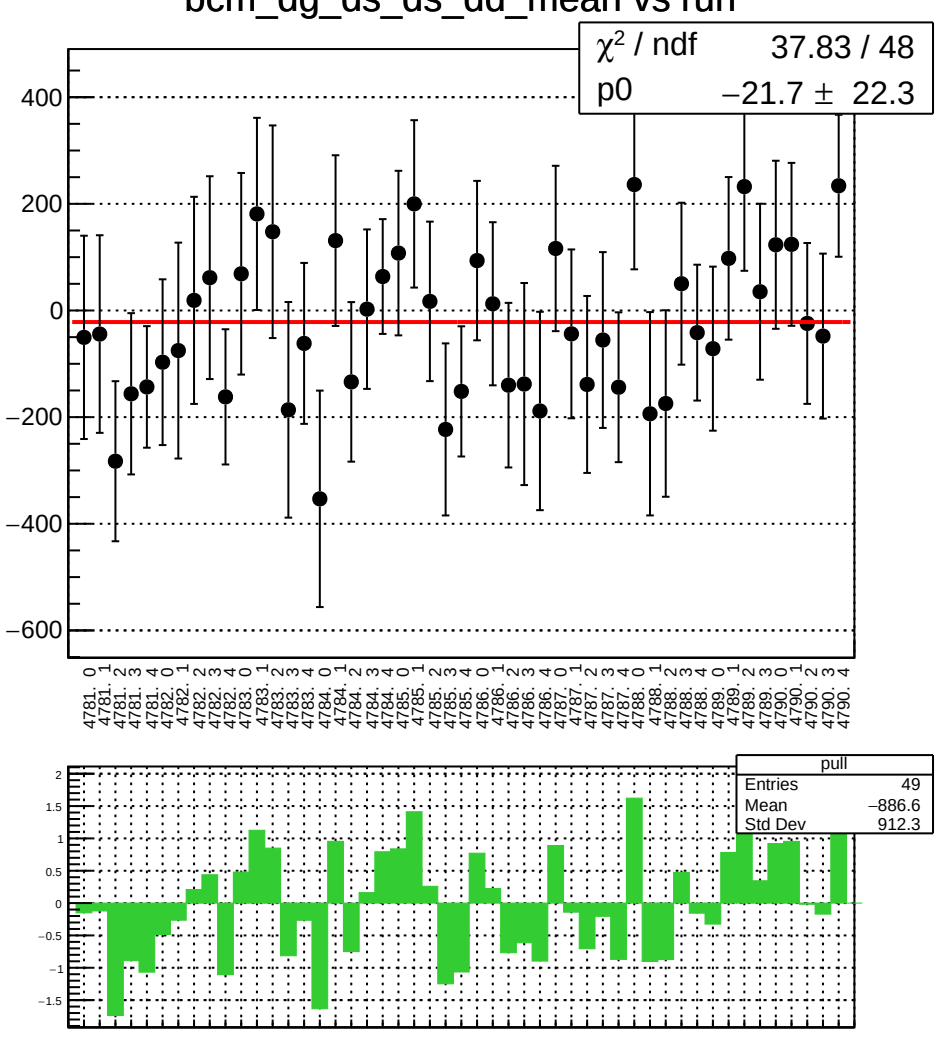

pull1D
Entries 49
Mean −0.003855
Std Dev 1.05

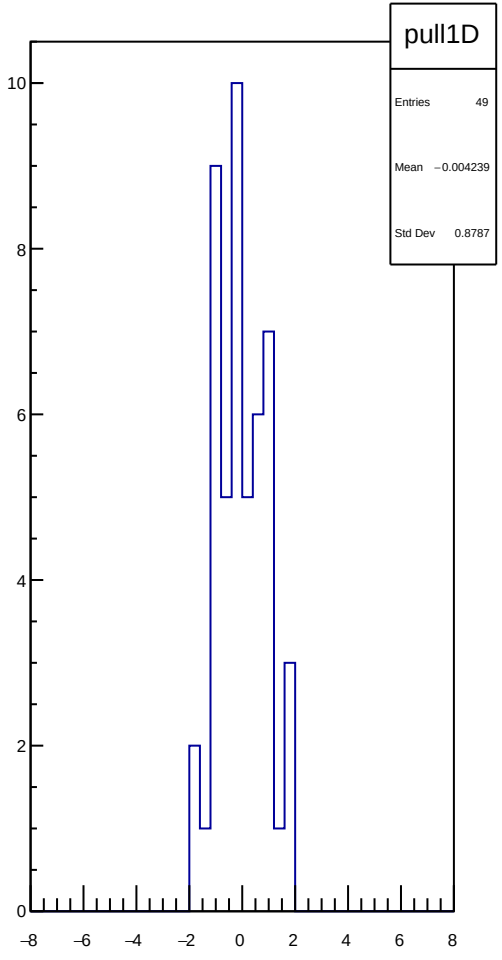

bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 1590 / 48
p0 23.89 ± 0.02406
27
26
25
24
23
22
21
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

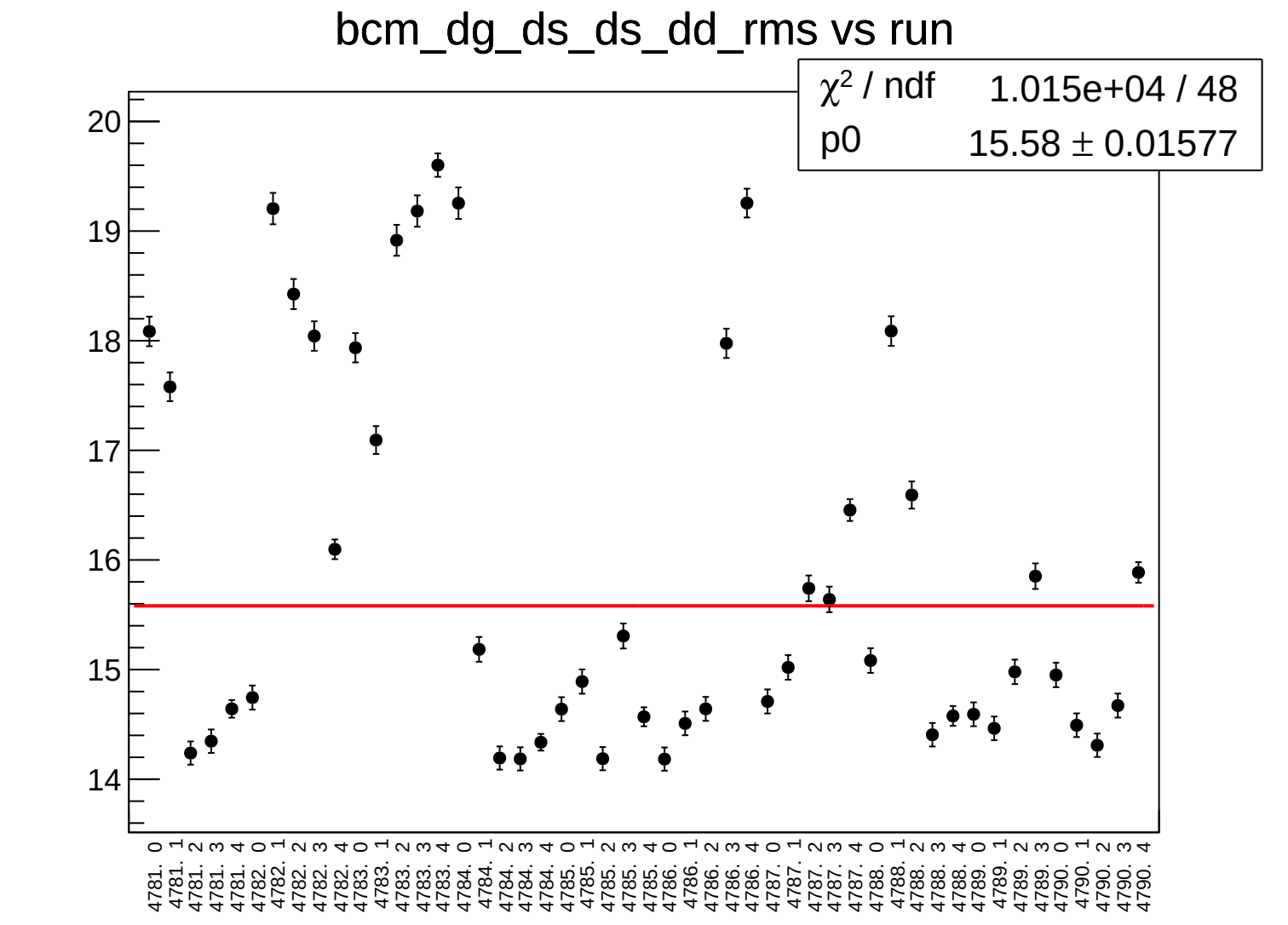

bcm_dg_us_ds_dd_mean vs run
χ² / ndf 58.4 / 48
p0 −25.85 ± 34.51
pull
Entries 49
Mean 110.1
Std Dev 44.15

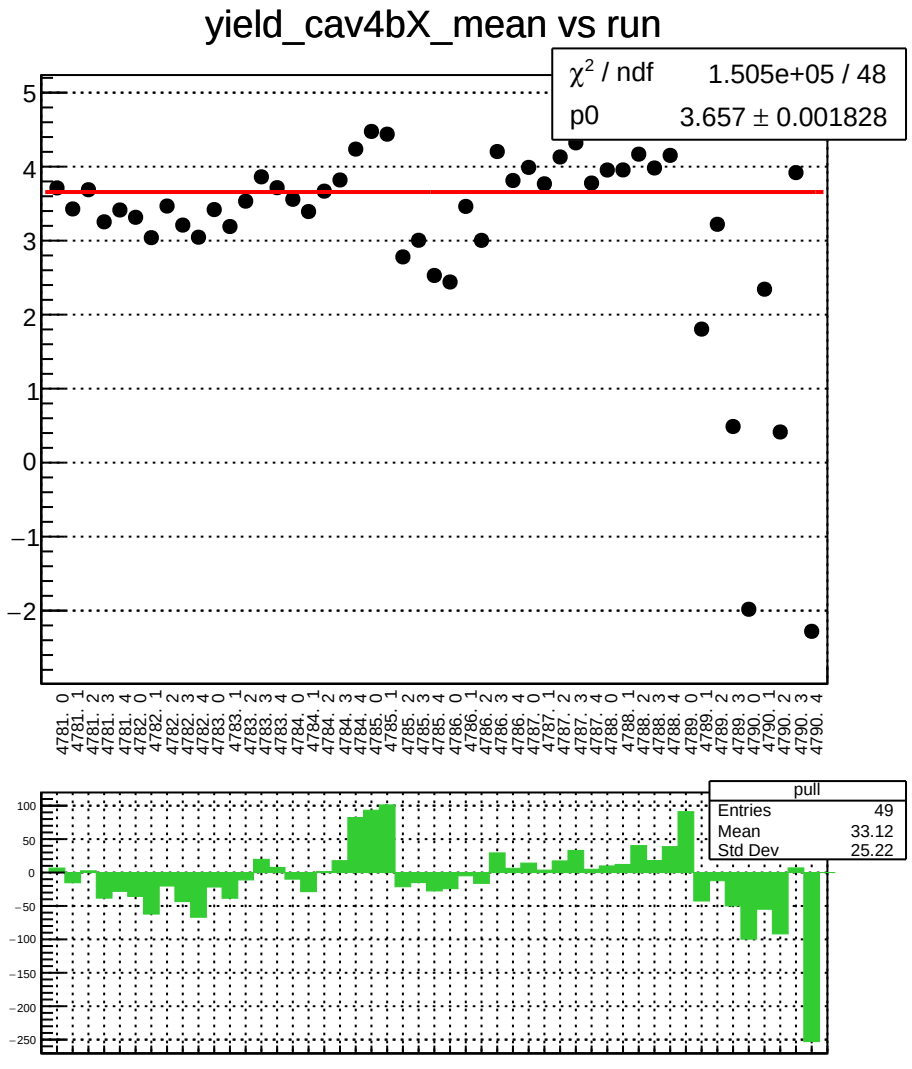

pull1D
Entries 49
Mean 0.001974
Std Dev 1.092

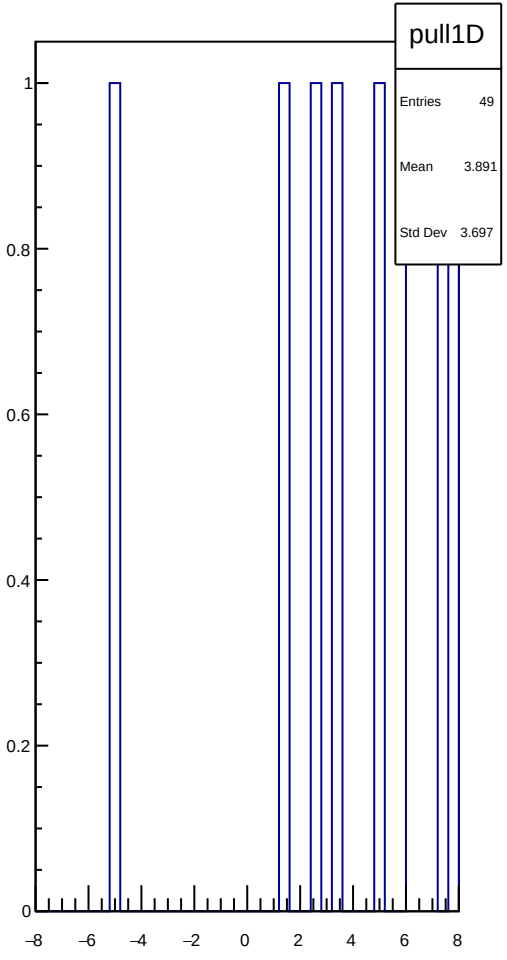

bcm_dg_us_ds_dd_rms vs run
χ² / ndf 2497 / 48
p0 24.21 ± 0.0244
27
26
25
24
23
22
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

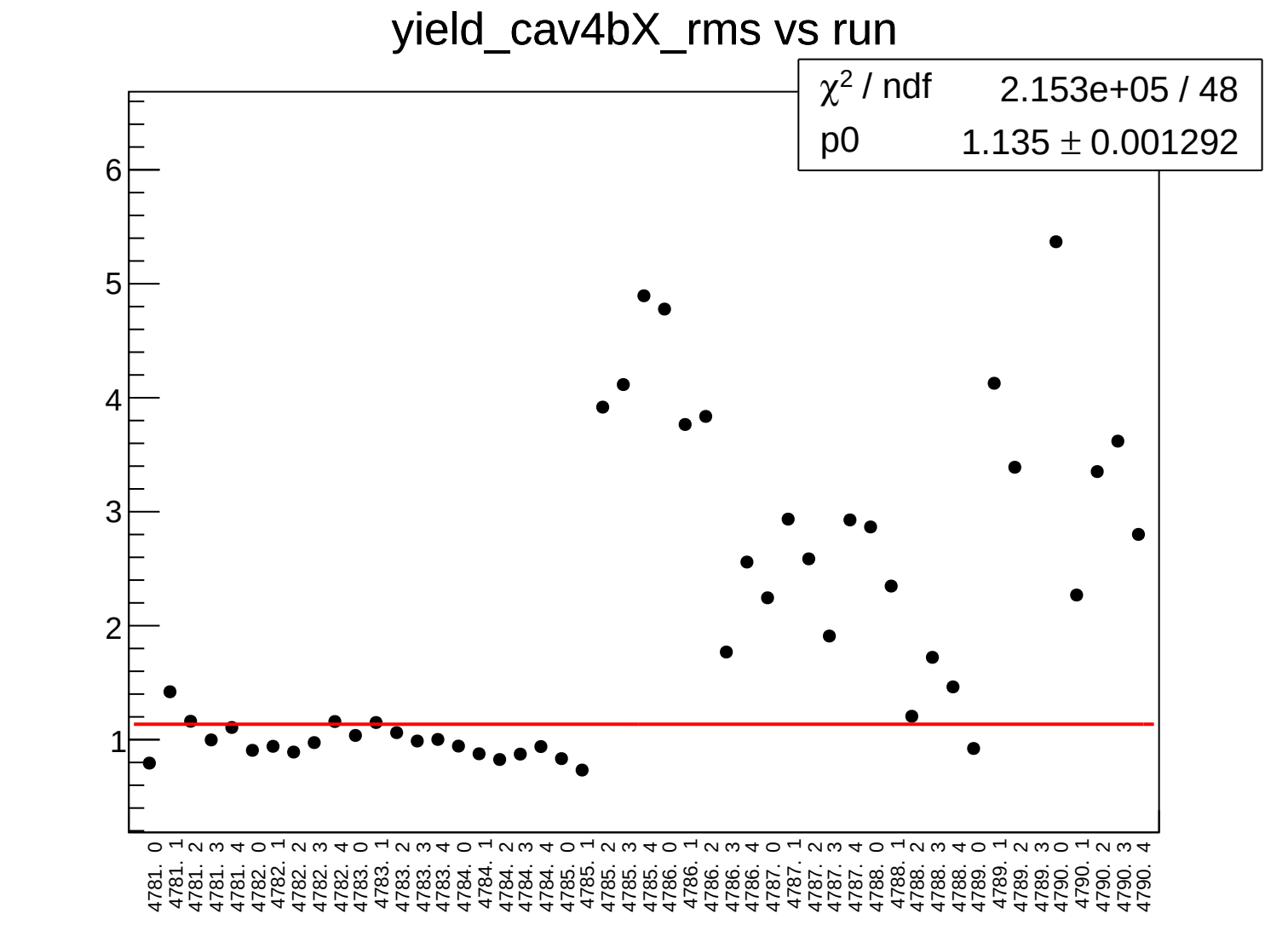

bcm_dg_ds_ds_dd_mean vs run
χ² / ndf 37.83 / 48
p0 −21.7 ± 22.3
400
200
0
−200
−400
−600
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −886.6
Std Dev 912.3
2
1.5
1
0.5
0
−0.5
−1
−1.5

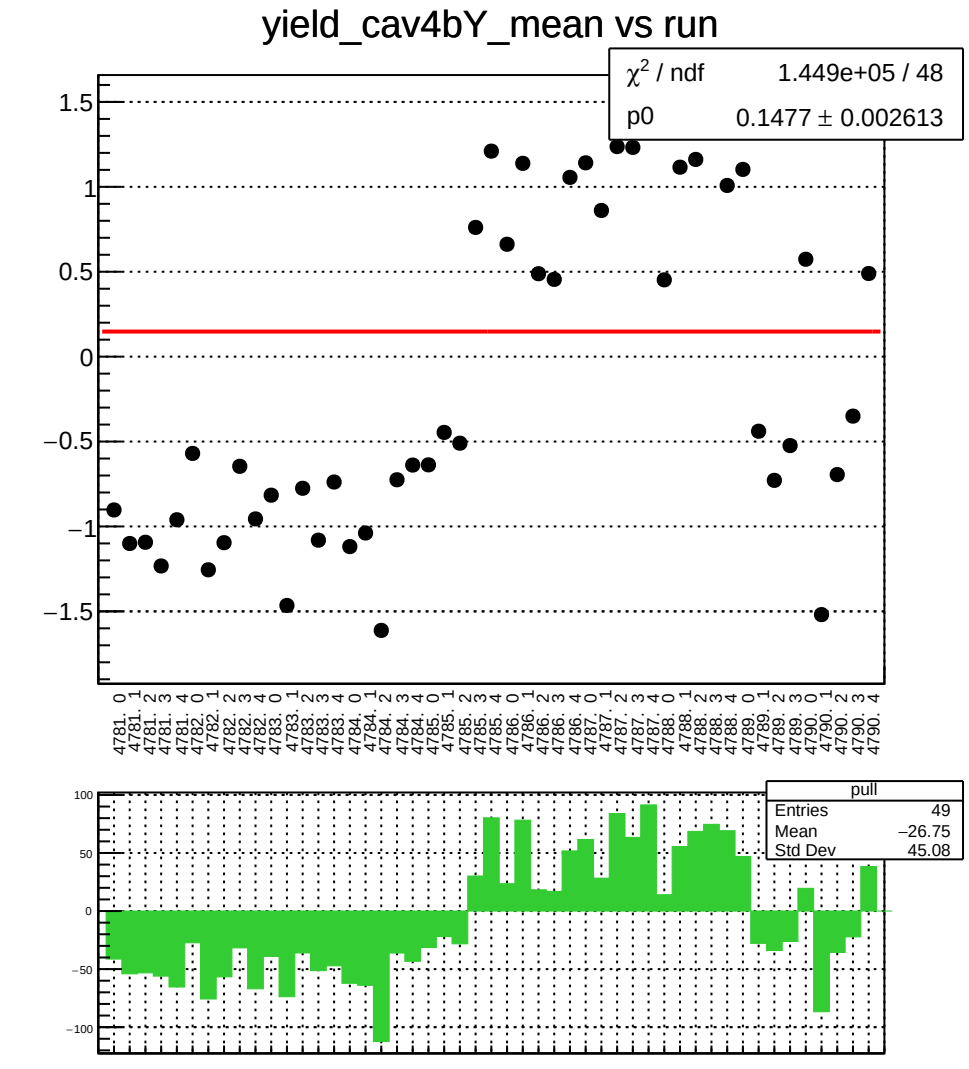

pull1D
Entries 49
Mean −0.004239
Std Dev 0.8787
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

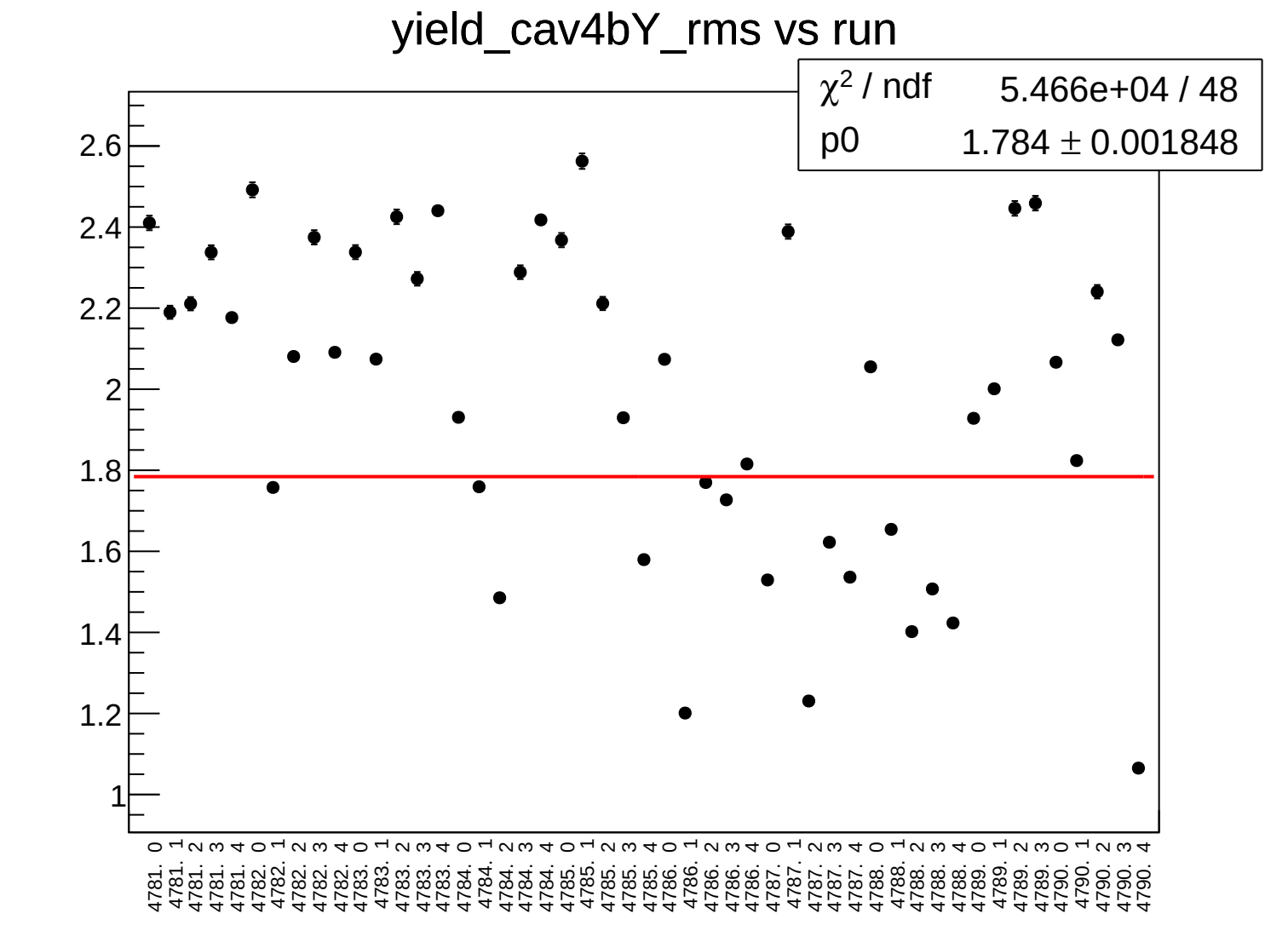

bcm_dg_ds_ds_dd_rms vs run
χ² / ndf 1.015e+04 / 48
p0 15.58 ± 0.01577
20
19
18
17
16
15
14
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

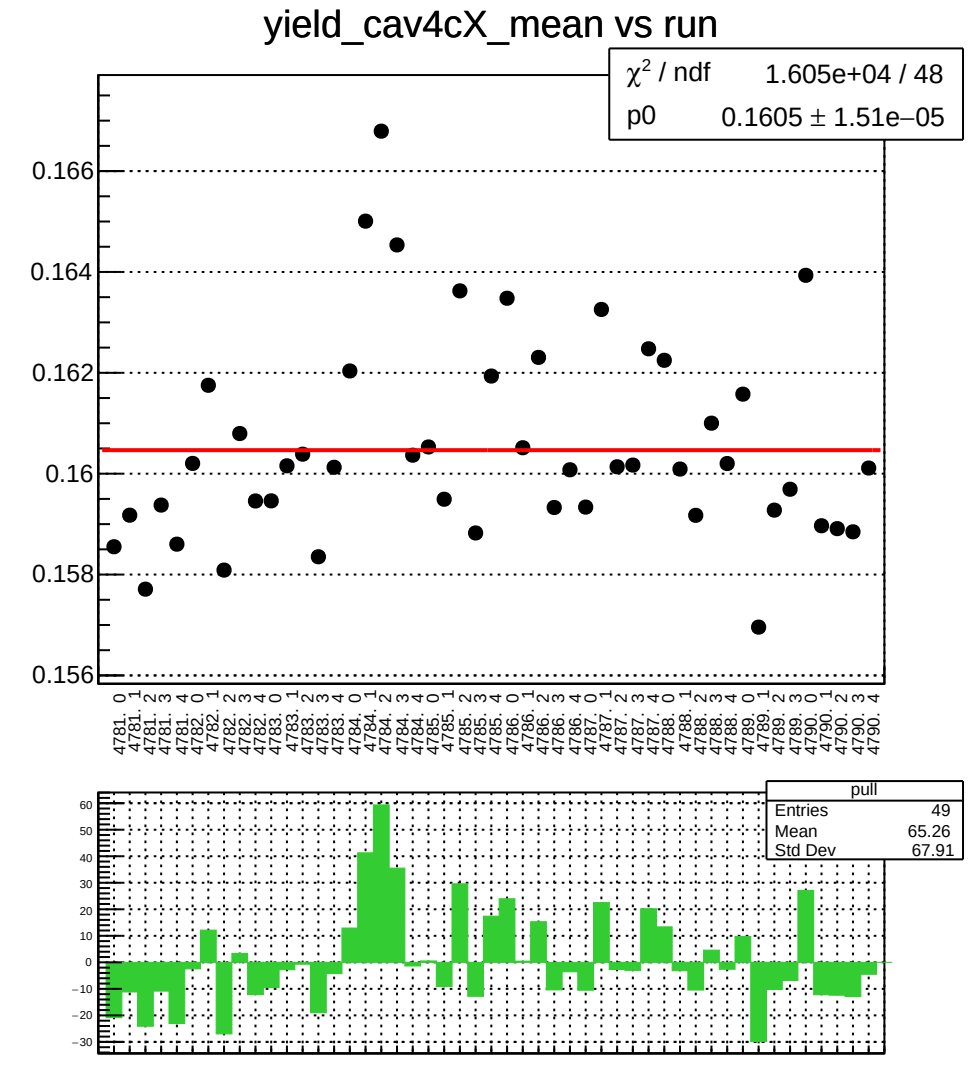

yield_cav4bX_mean vs run
χ² / ndf 1.505e+05 / 48
p0 3.657 ± 0.001828
pull
Entries 49
Mean 33.12
Std Dev 25.22

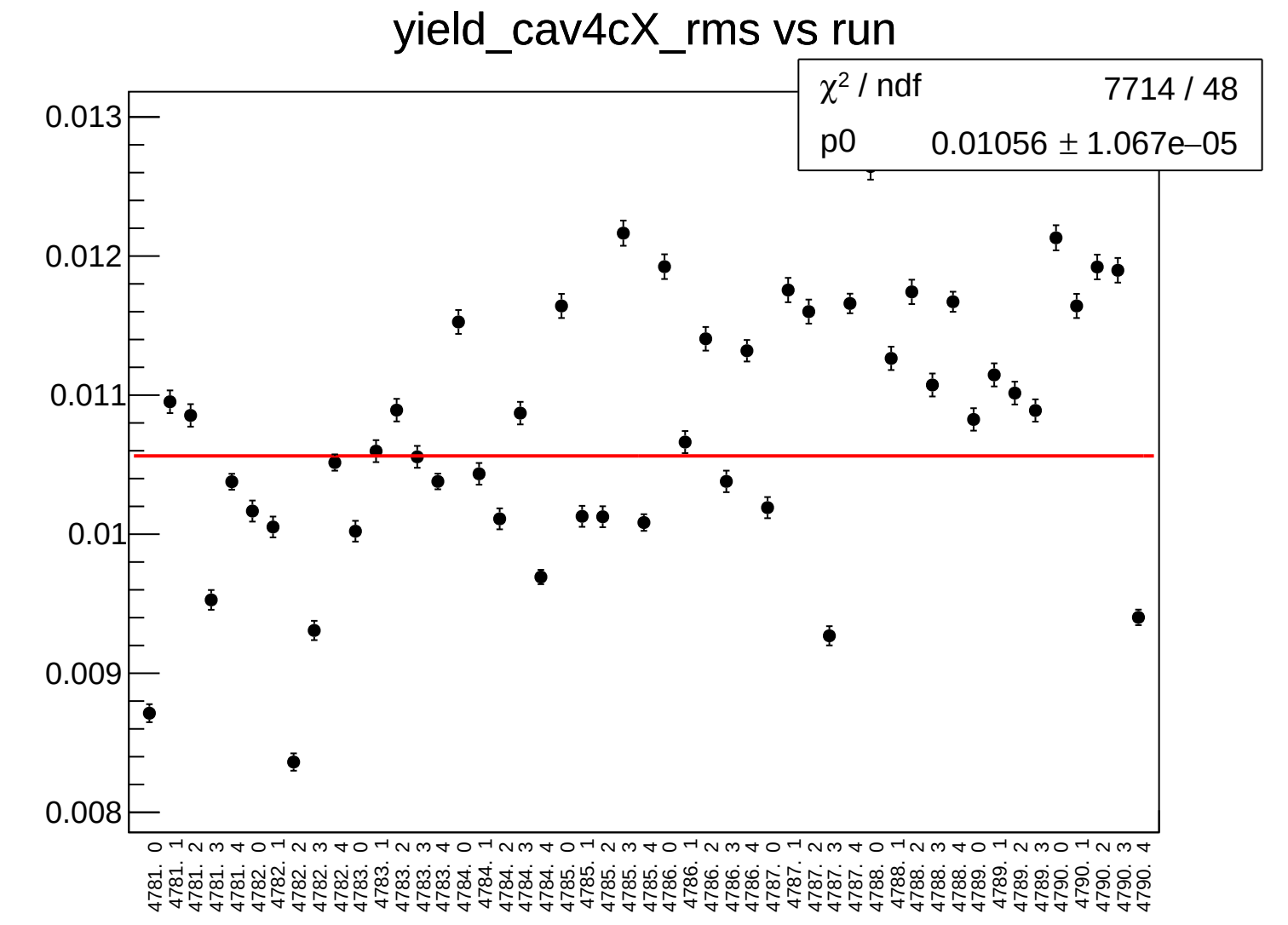

pull1D
Entries 49
Mean 3.891
Std Dev 3.697

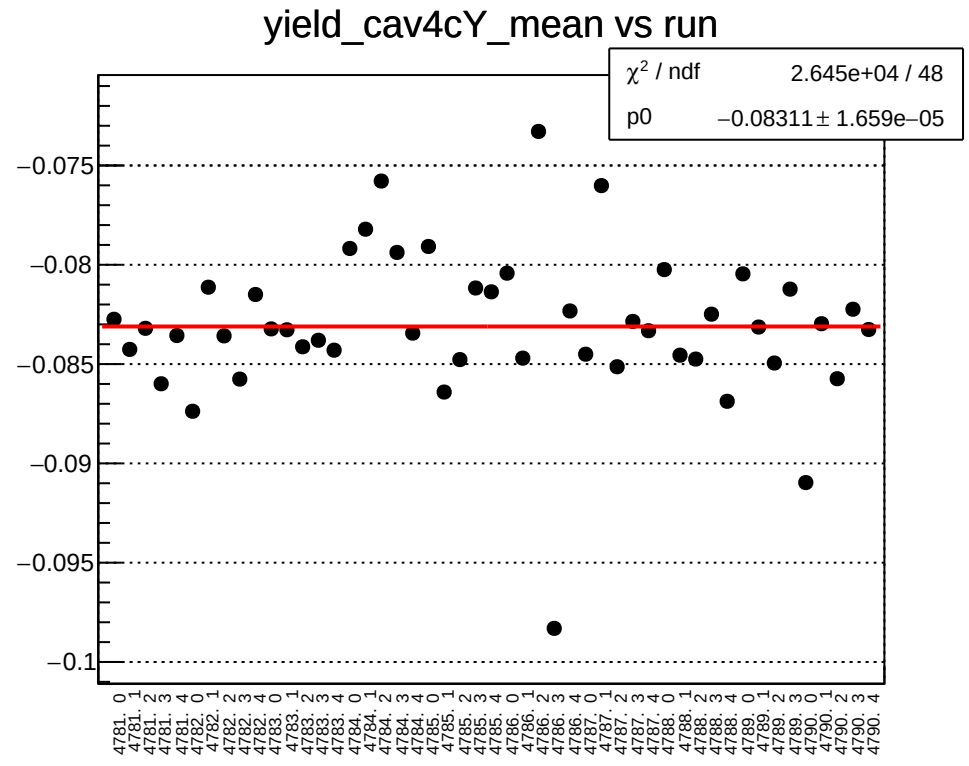

yield_cav4bX_rms vs run
χ² / ndf 2.153e+05 / 48
p0 1.135 ± 0.001292
6
5
4
3
2
1
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

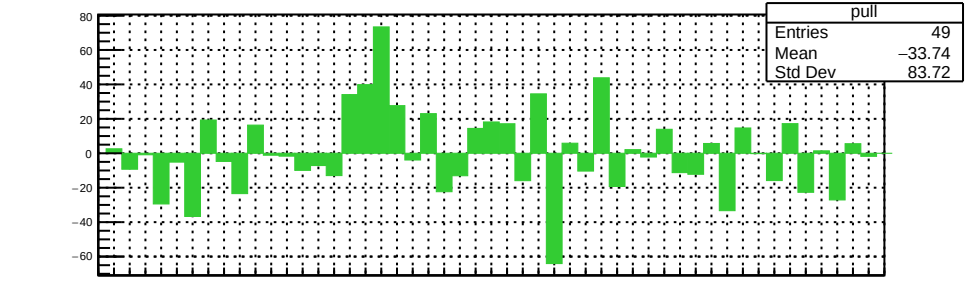

yield_cav4bY_mean vs run
χ² / ndf 1.449e+05 / 48
p0 0.1477 ± 0.002613
1.5
1
0.5
0
−0.5
−1
−1.5
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −26.75
Std Dev 45.08
100
50
0
−50
−100
pull1D
Entries 49
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

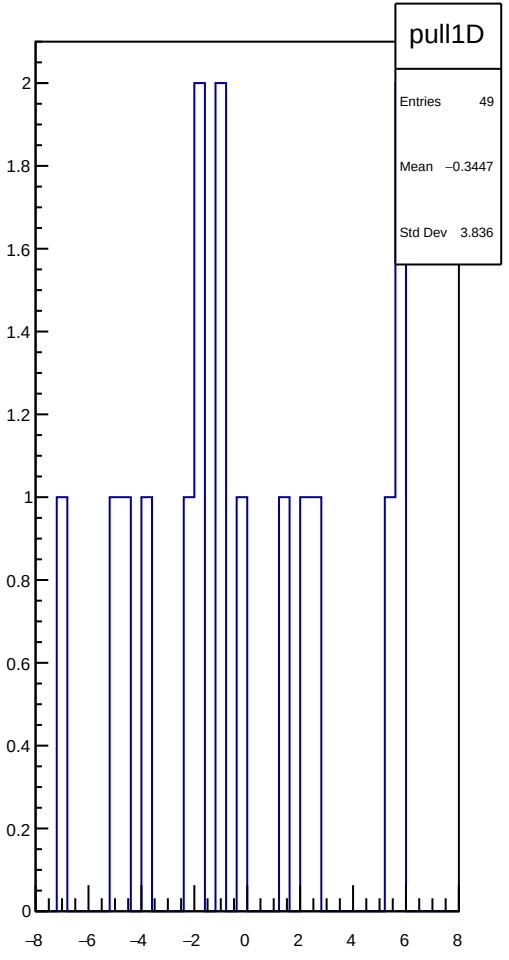

yield_cav4bY_rms vs run
χ^2 / ndf 5.466e+04 / 48
p0 1.784 ± 0.001848
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

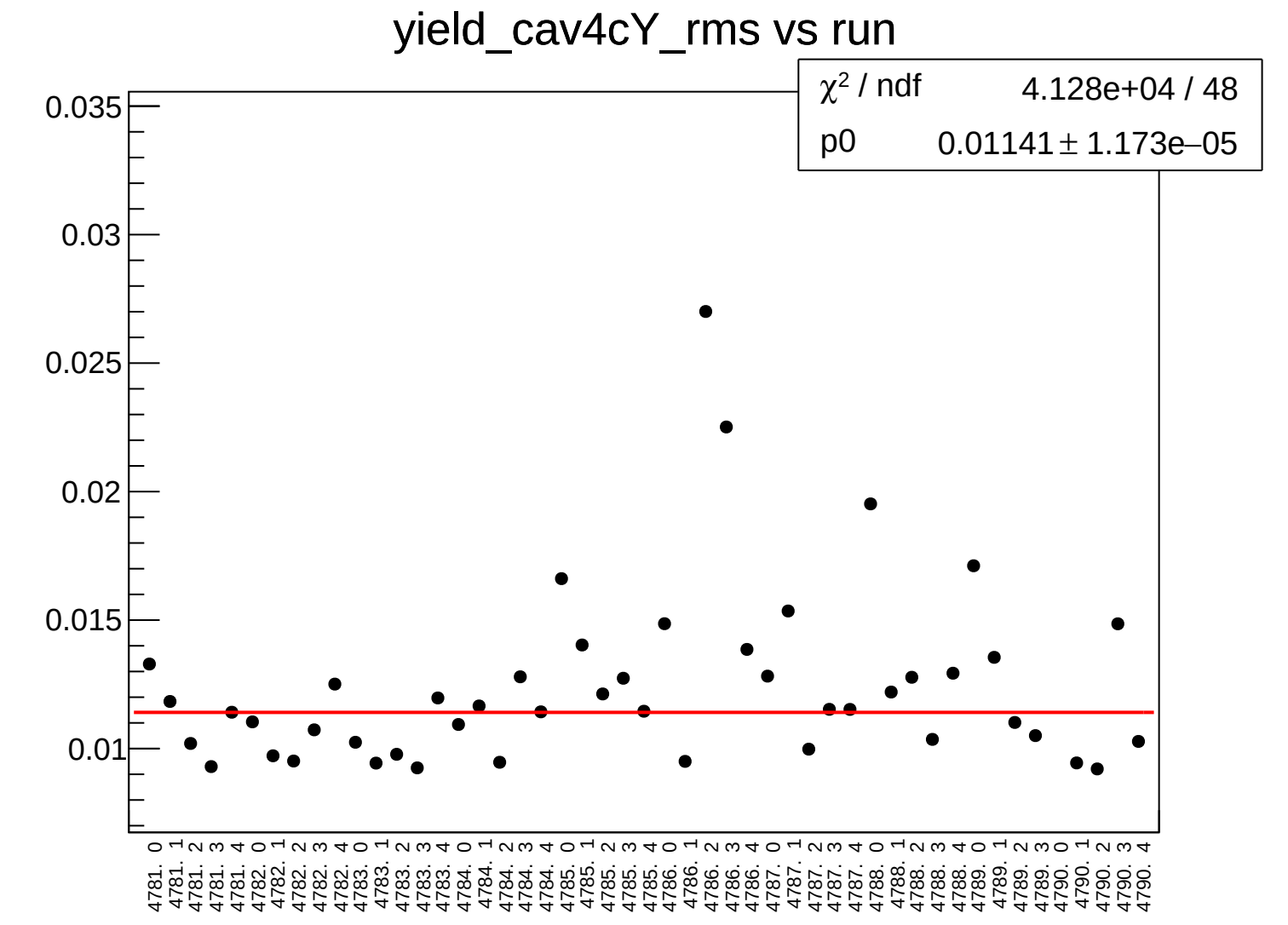

yield_cav4cX_mean vs run
χ² / ndf 1.605e+04 / 48
p0 0.1605 ± 1.51e−05
0.166
0.164
0.162
0.16
0.158
0.156
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4798. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 65.26
Std Dev 67.91
60
50
40
30
20
10
0
−10
−20
−30
pull1D
Entries 49
Mean −1.813
Std Dev 2.818
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

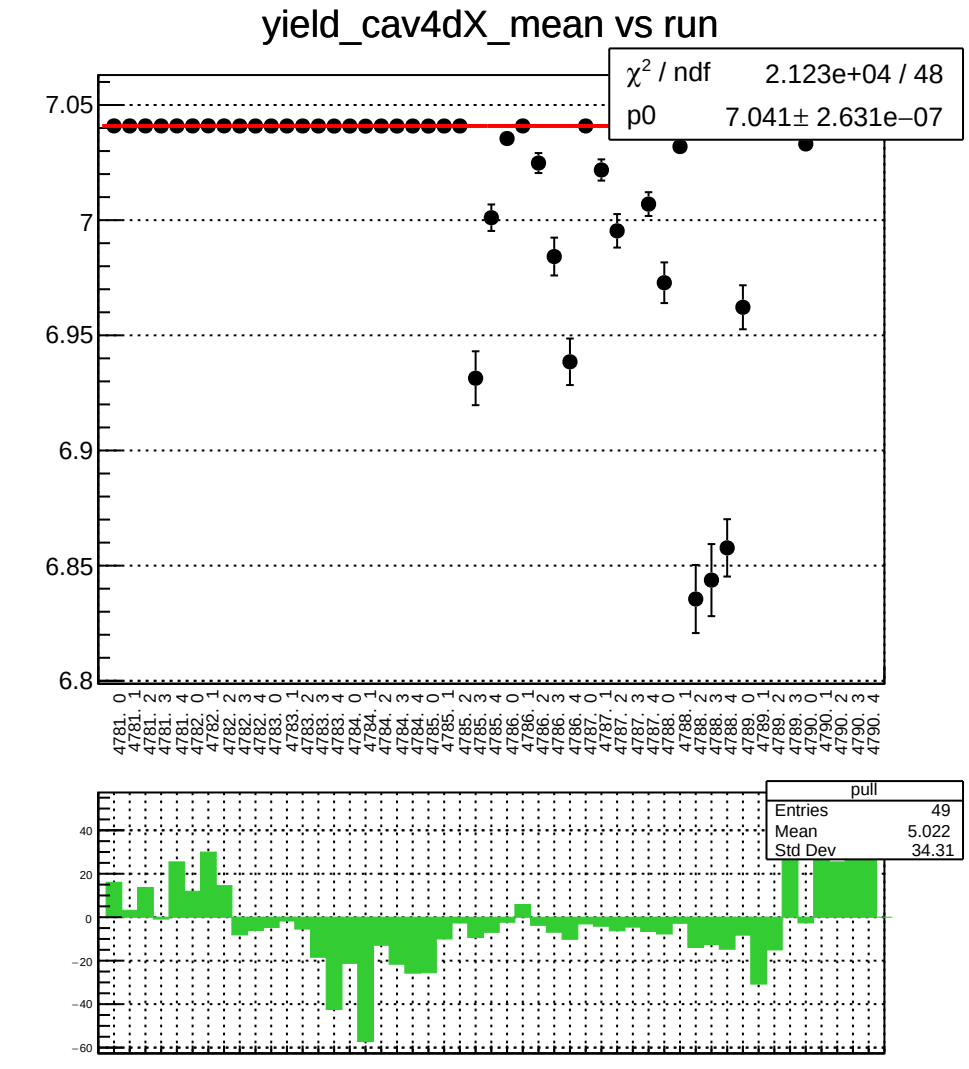

yield_cav4cX_rms vs run
χ² / ndf 7714 / 48
p0 0.01056 ± 1.067e–05
0.013
0.012
0.011
0.01
0.009
0.008
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

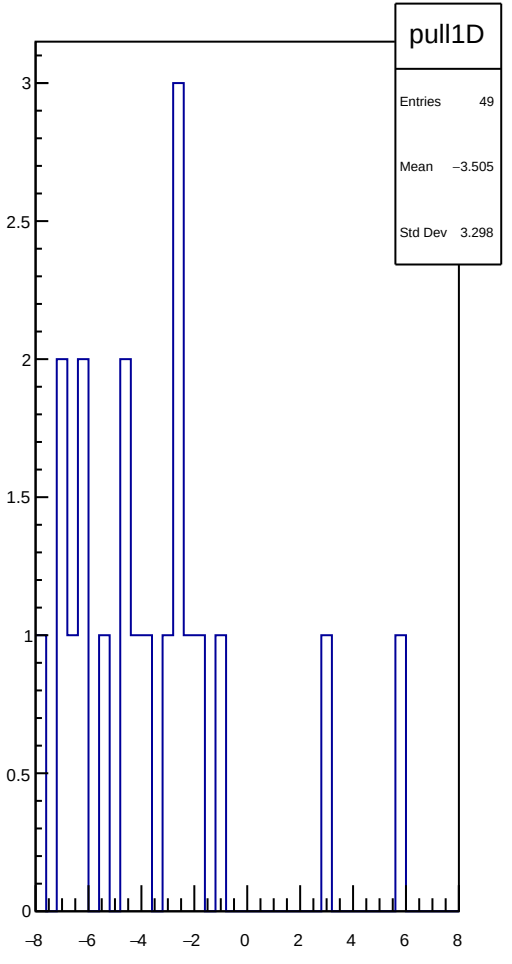

yield_cav4cY_mean vs run
χ² / ndf 2.645e+04 / 48
p0 −0.08311 ± 1.659e−05
−0.075
−0.08
−0.085
−0.09
−0.095
−0.1
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

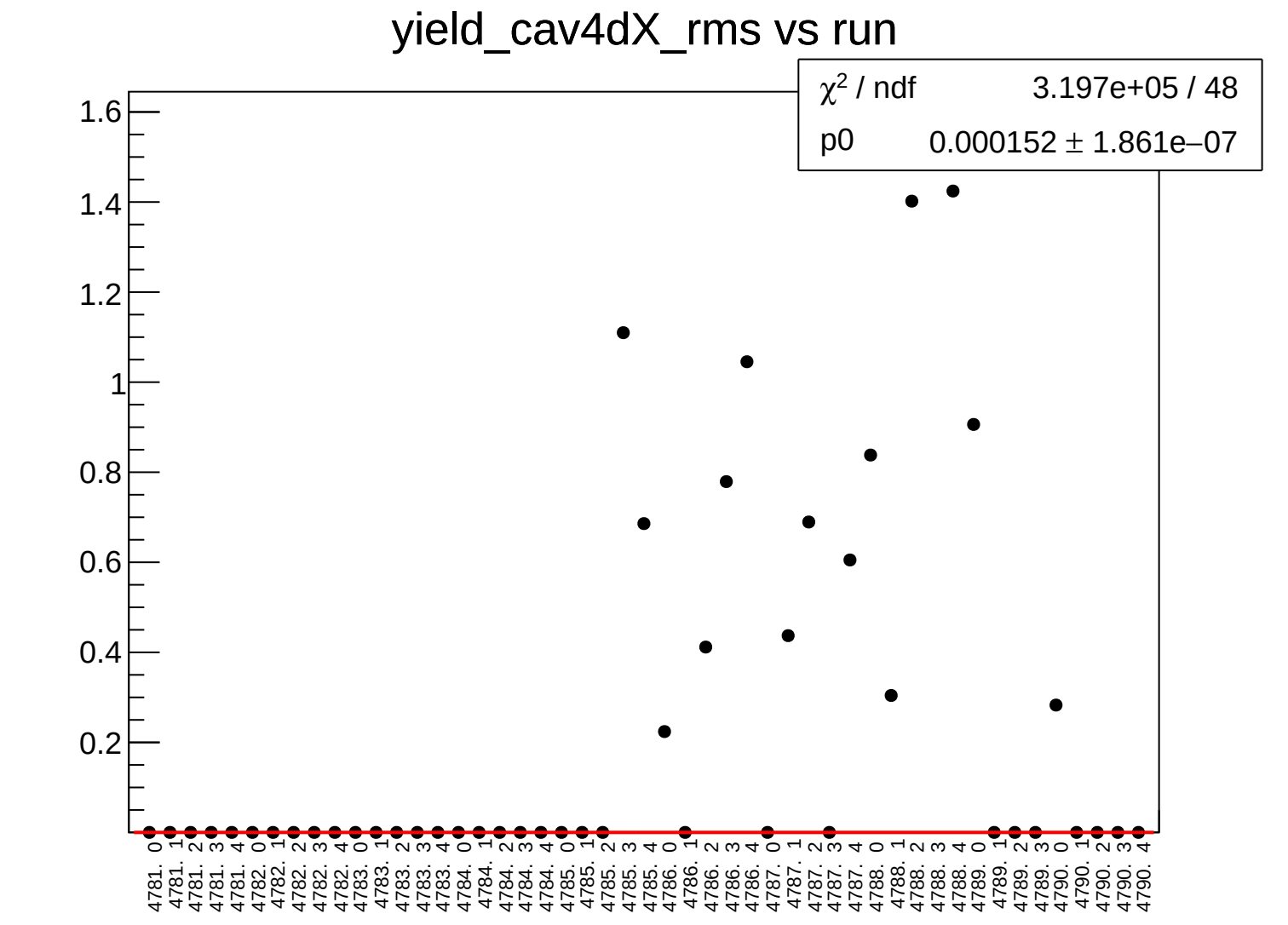

pull
Entries 49
Mean −33.74
Std Dev 83.72
80
60
40
20
0
−20
−40
−60

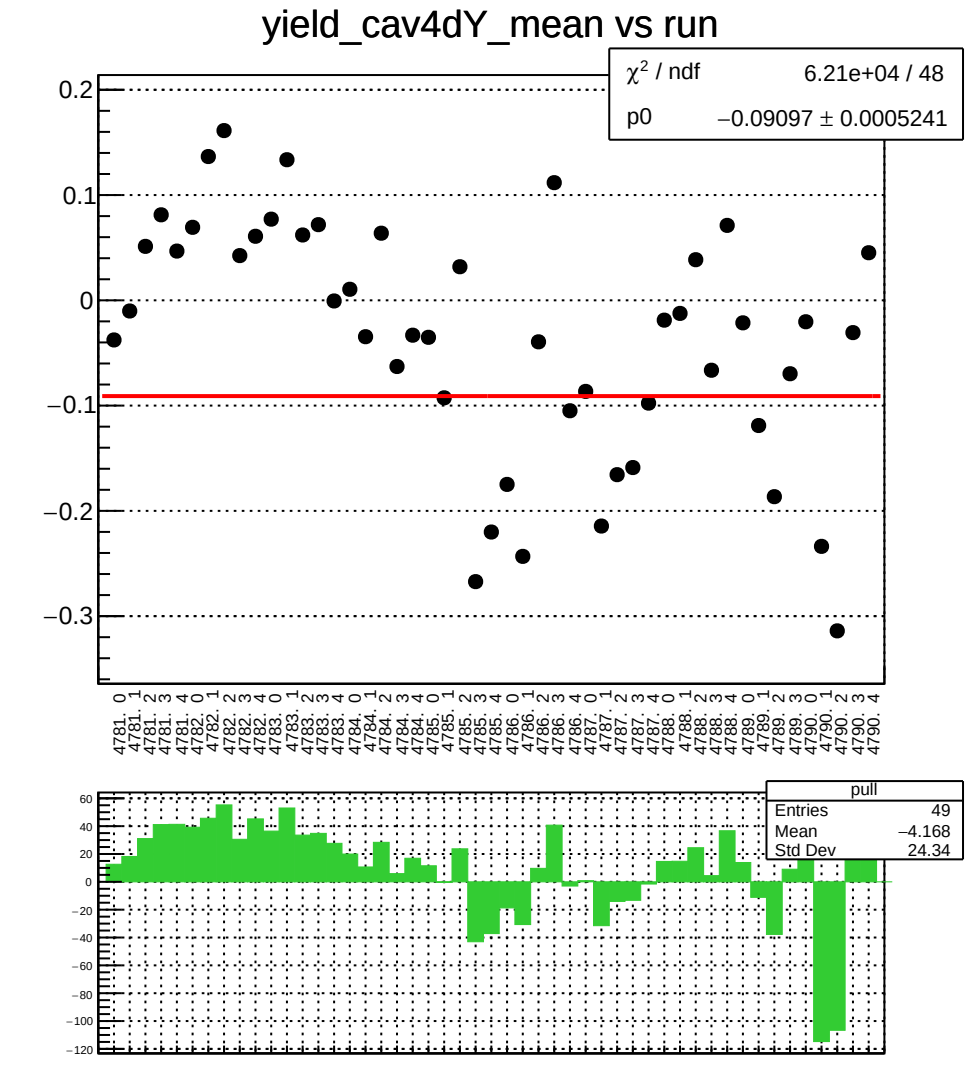

pull1D
Entries 49
Mean −0.3447
Std Dev 3.836
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

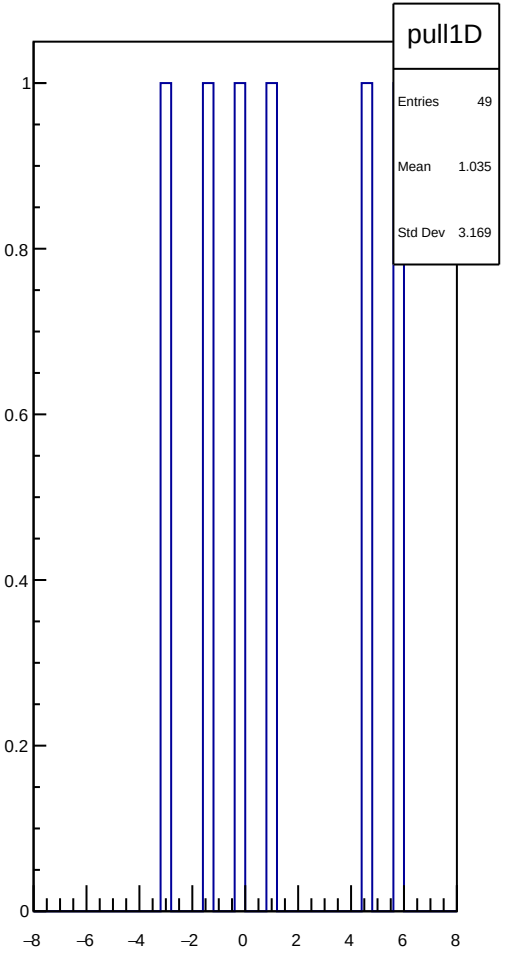

yield_cav4cY_rms vs run
χ² / ndf 4.128e+04 / 48
p0 0.01141 ± 1.173e–05
0.035
0.03
0.025
0.02
0.015
0.01
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

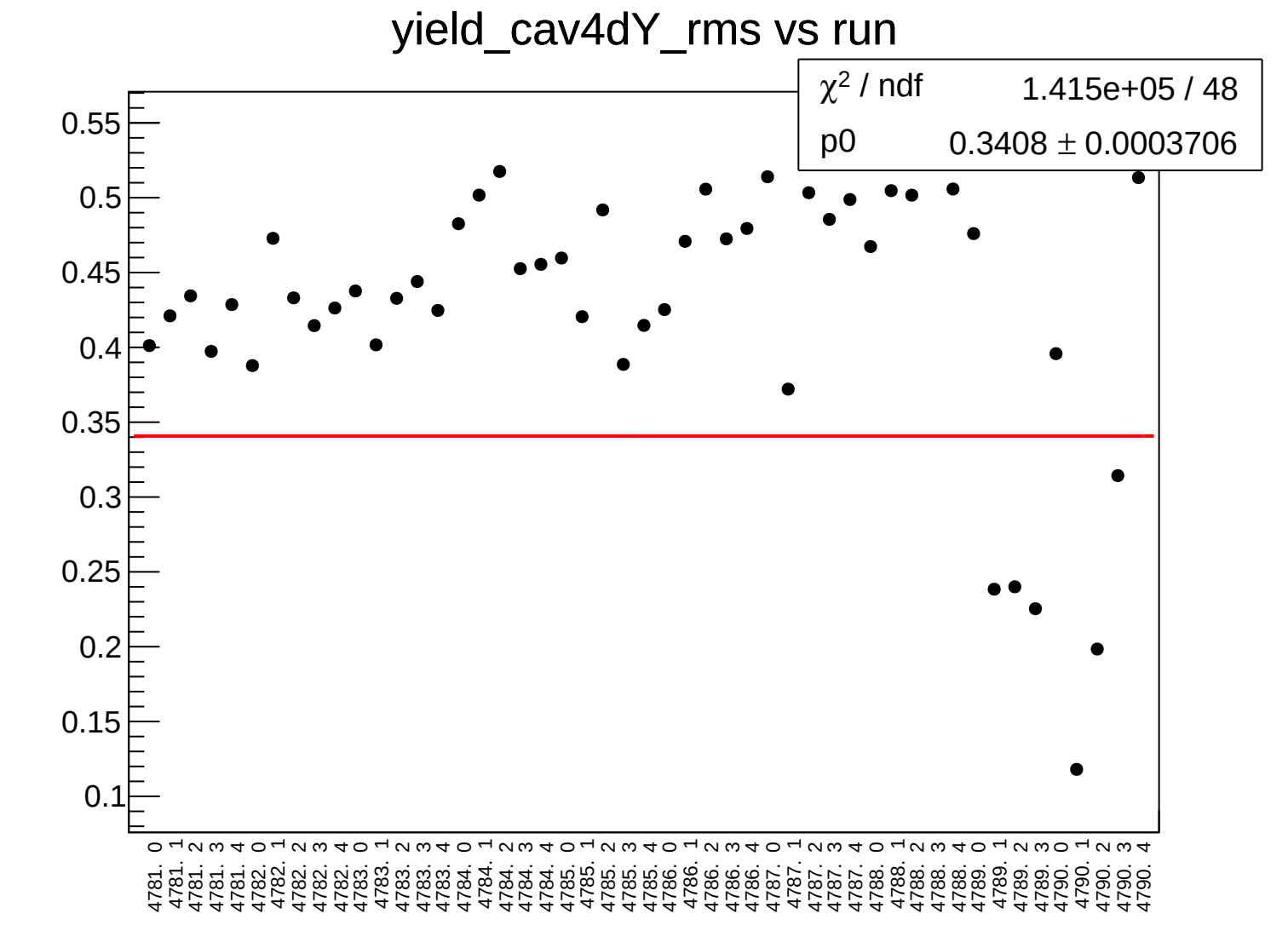

yield_cav4dX_mean vs run
χ² / ndf 2.123e+04 / 48
p0 7.041± 2.631e−07
7.05
7
6.95
6.9
6.85
6.8
pull
Entries 49
Mean 5.022
Std Dev 34.31
40
20
0
−20
−40
−60

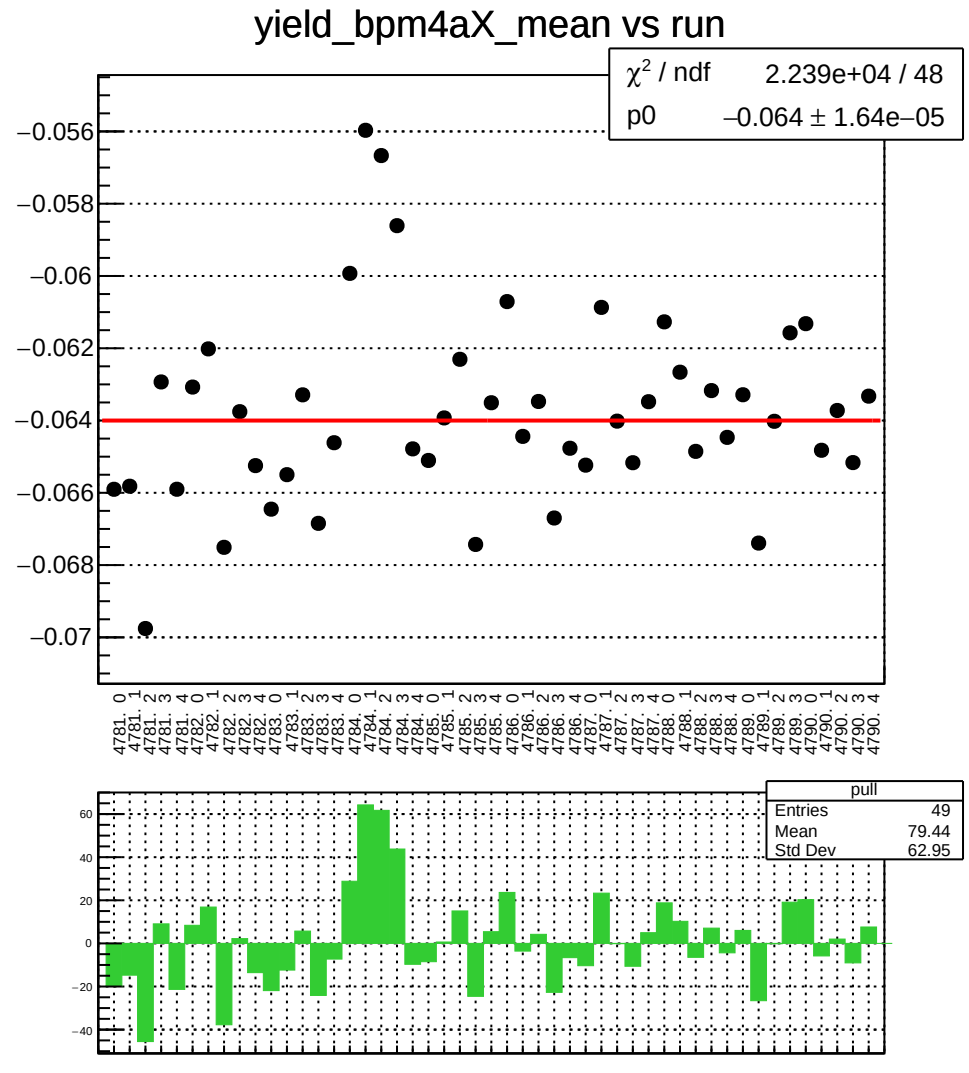

pull1D
Entries 49
Mean −3.505
Std Dev 3.298
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

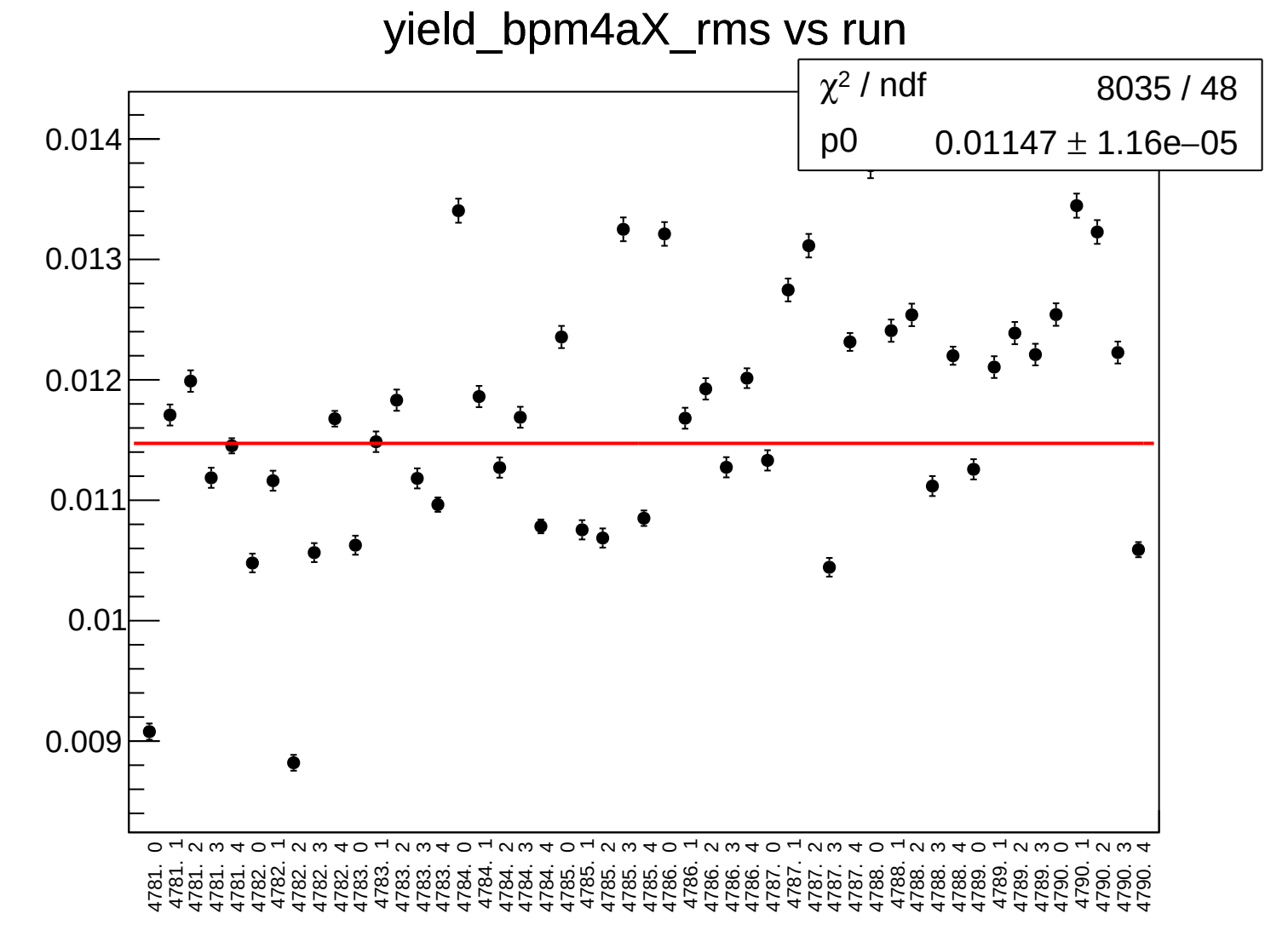

yield_cav4dX_rms vs run
χ² / ndf 3.197e+05 / 48
p0 0.000152 ± 1.861e−07
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

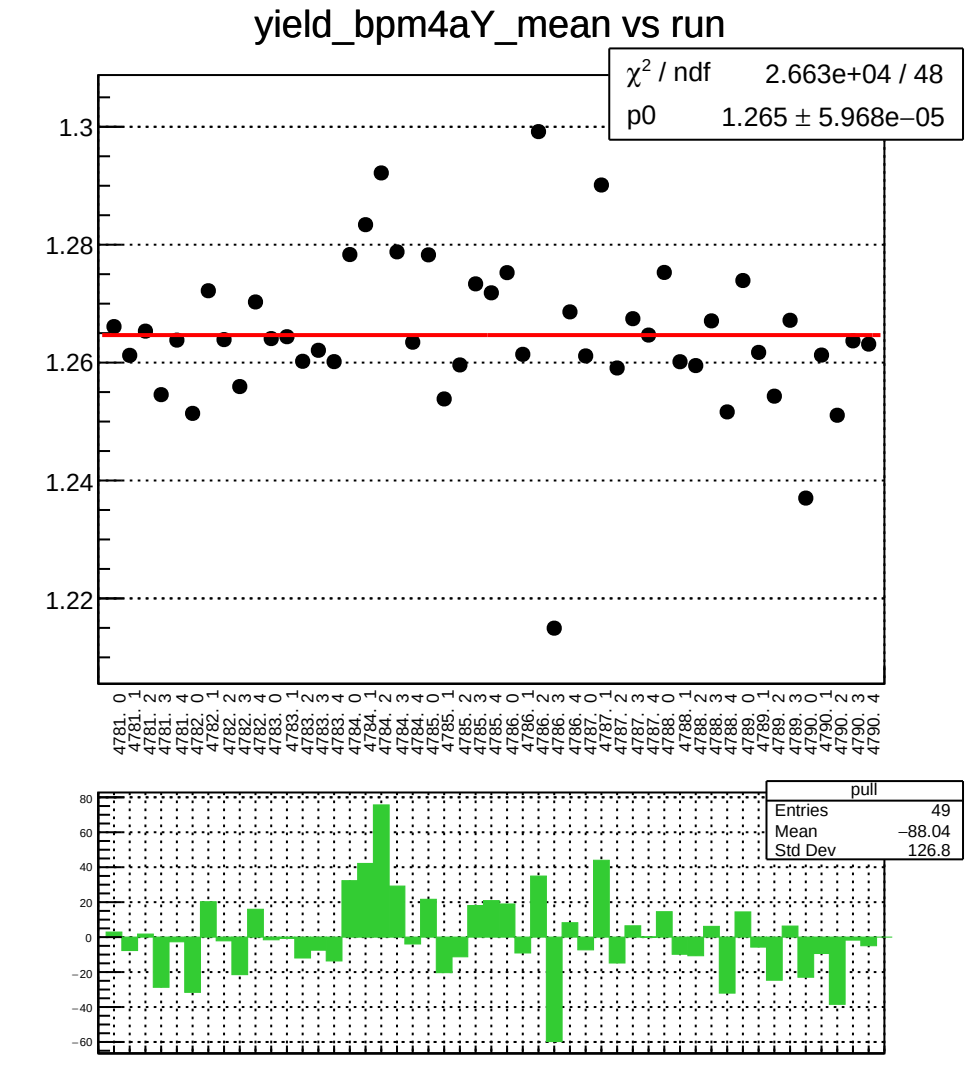

yield_cav4dY_mean vs run
χ² / ndf 6.21e+04 / 48
p0 −0.09097 ± 0.0005241
pull
Entries 49
Mean −4.168
Std Dev 24.34

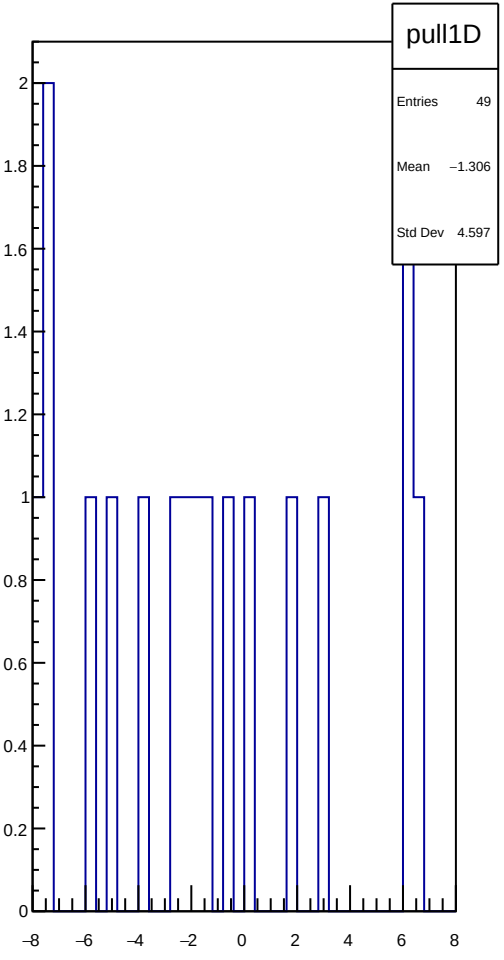

pull1D
Entries 49
Mean 1.035
Std Dev 3.169

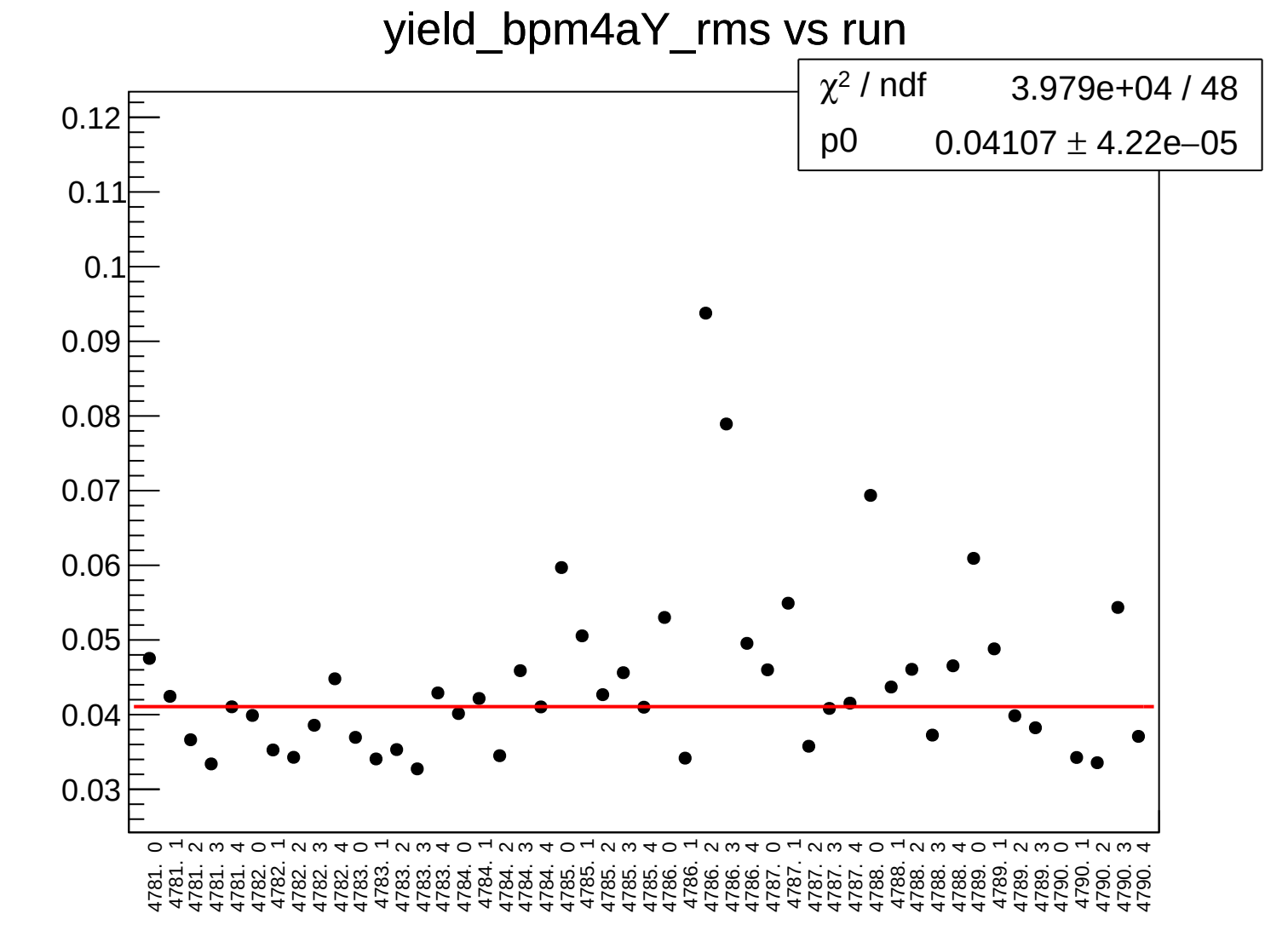

yield_cav4dY_rms vs run
χ² / ndf 1.415e+05 / 48
p0 0.3408 ± 0.0003706
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

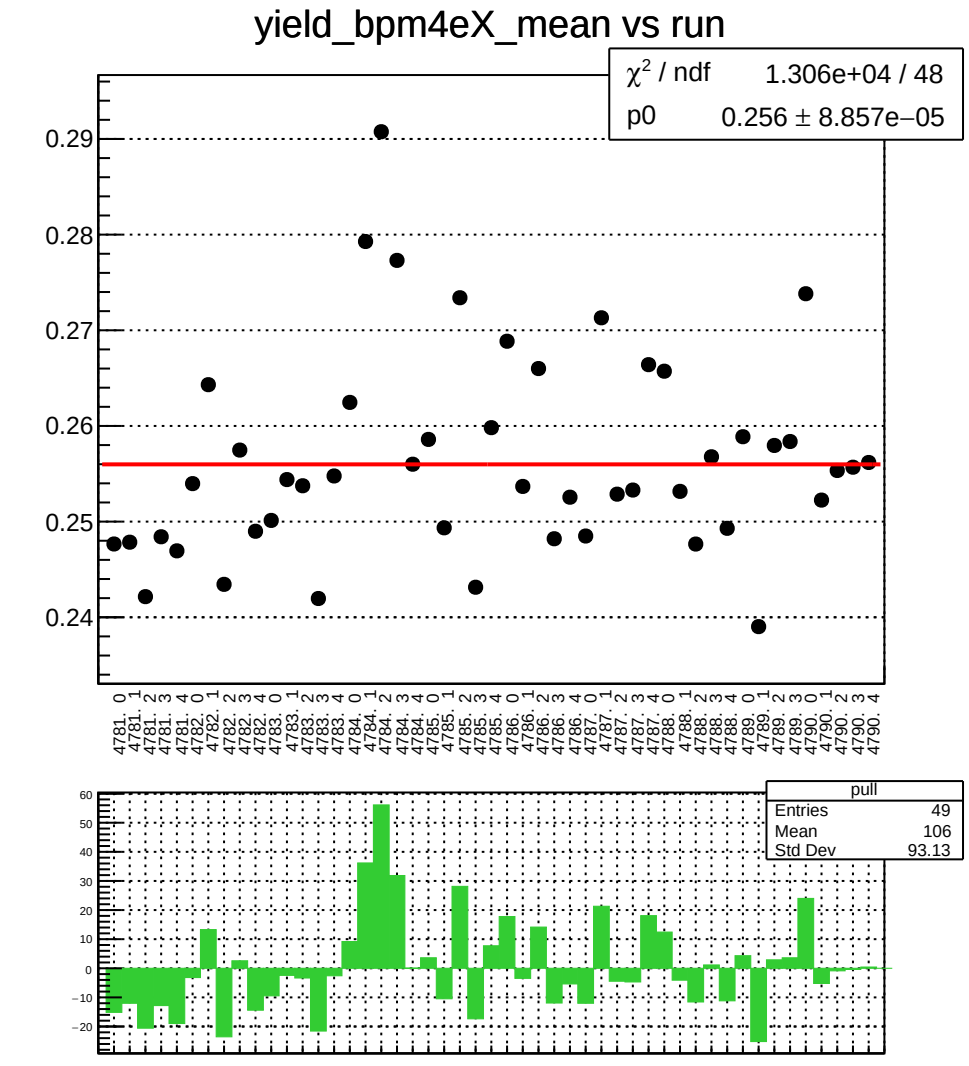

yield_bpm4aX_mean vs run
χ² / ndf 2.239e+04 / 48
p0 –0.064 ± 1.64e–05
–0.056
–0.058
–0.06
–0.062
–0.064
–0.066
–0.068
–0.07
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 79.44
Std Dev 62.95
60
40
20
0
–20
–40
pull1D
Entries 49
Mean 0.639
Std Dev 5.021
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

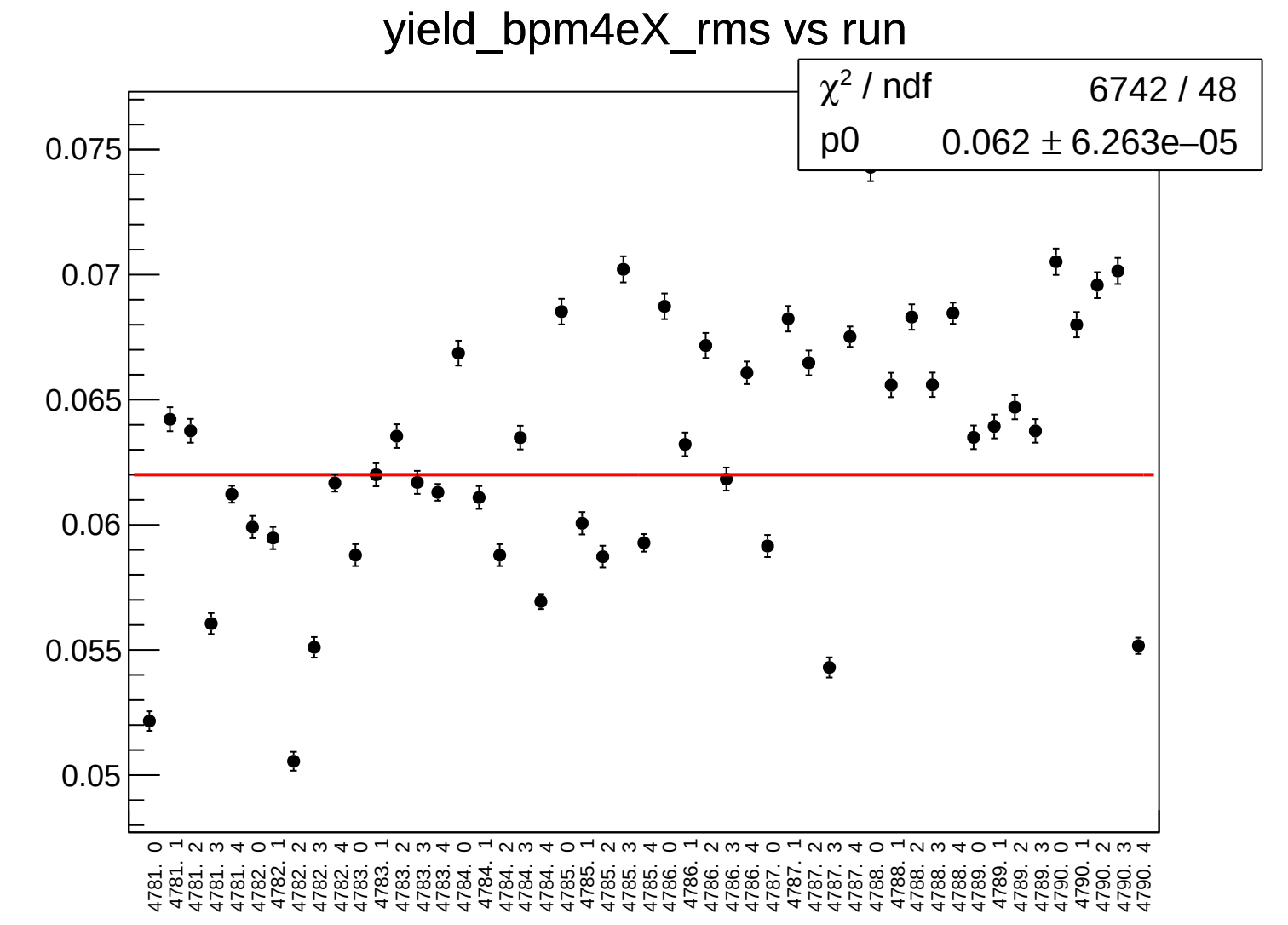

yield_bpm4aX_rms vs run
χ² / ndf 8035 / 48
p0 0.01147 ± 1.16e−05
0.014
0.013
0.012
0.011
0.01
0.009
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

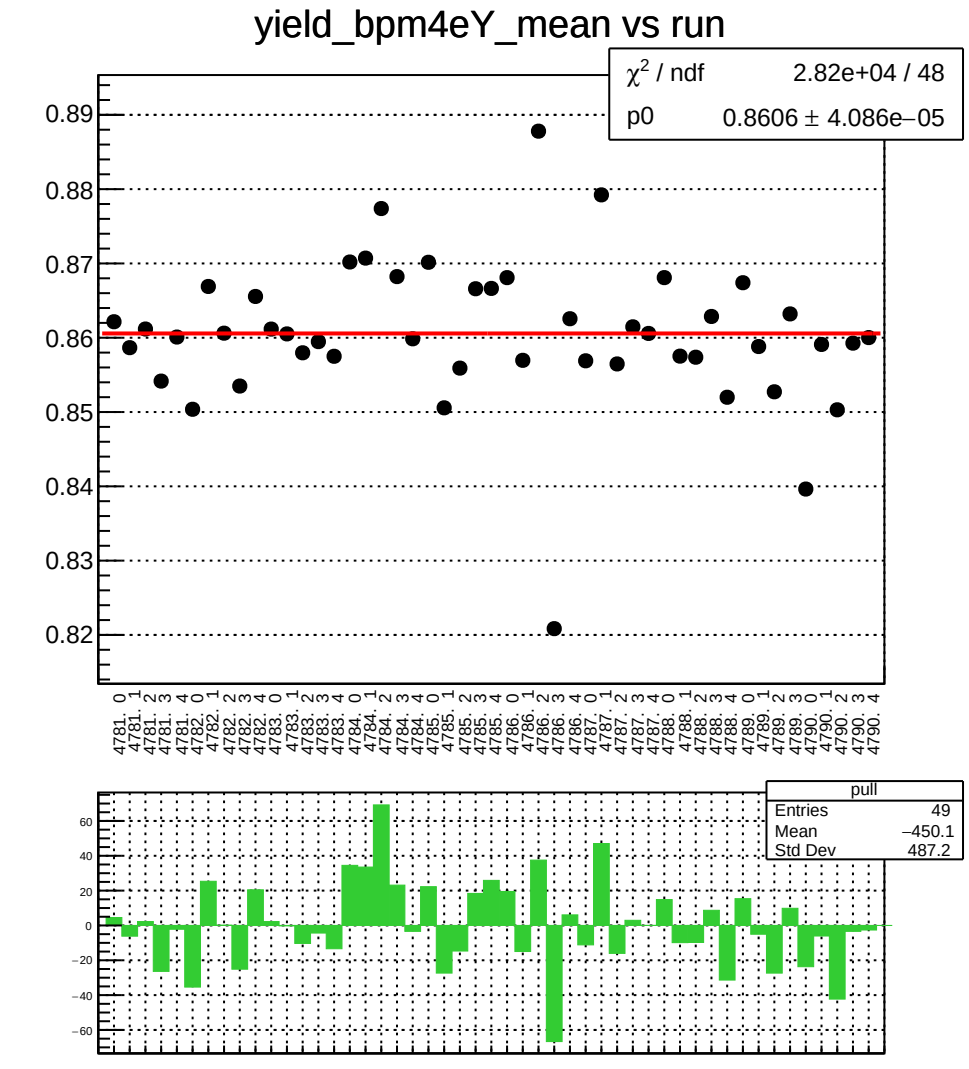

yield_bpm4aY_mean vs run
χ² / ndf 2.663e+04 / 48
p0 1.265 ± 5.968e−05
1.3
1.28
1.26
1.24
1.22
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −88.04
Std Dev 126.8
80
60
40
20
0
−20
−40
−60

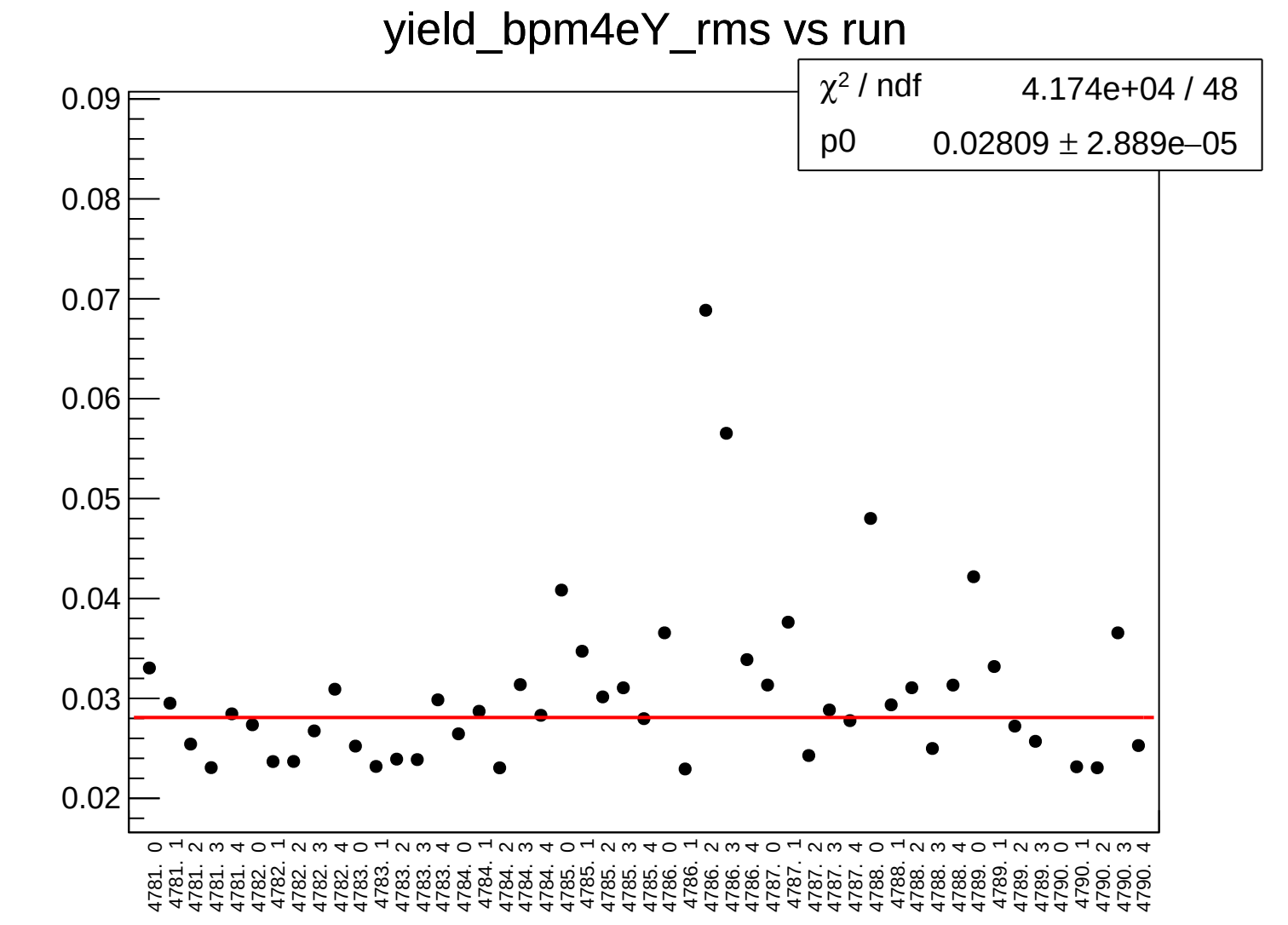

pull1D
Entries 49
Mean −1.306
Std Dev 4.597
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

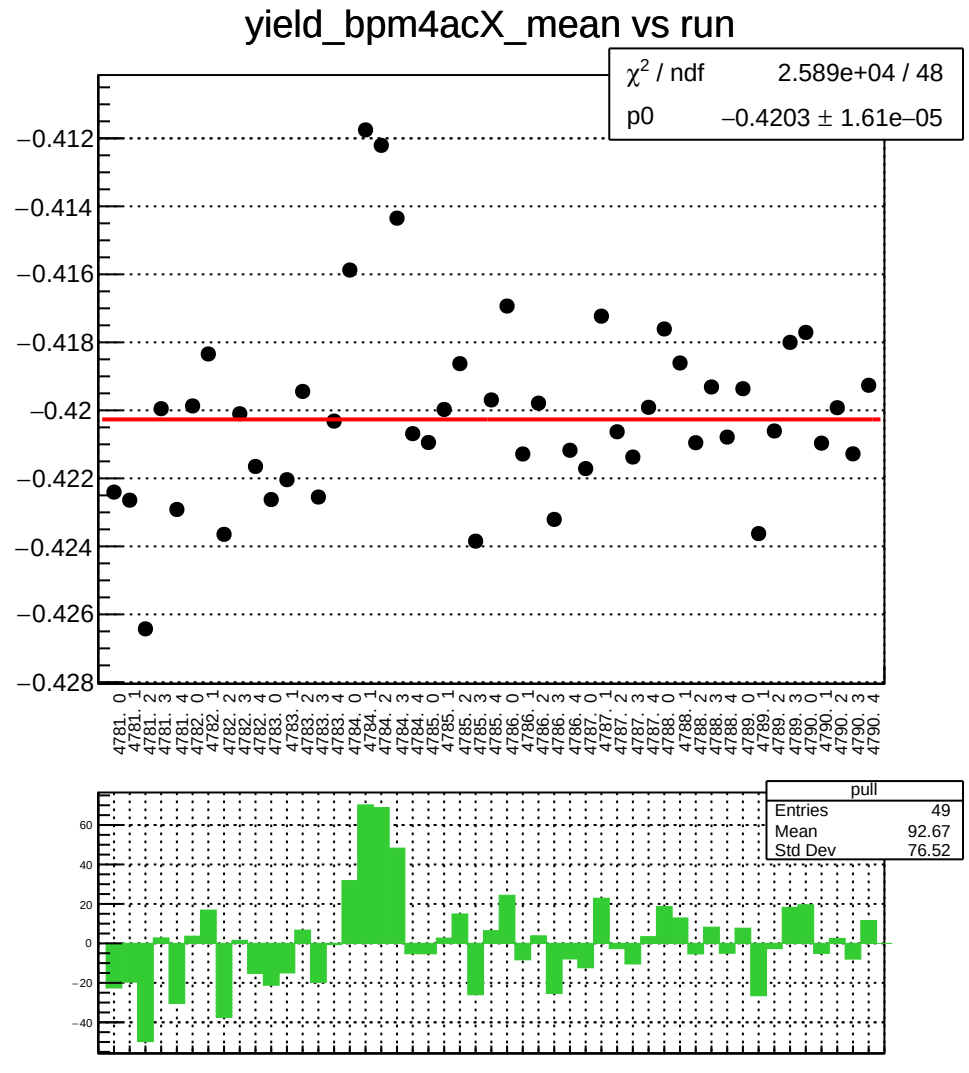

yield_bpm4aY_rms vs run
χ² / ndf 3.979e+04 / 48
p0 0.04107 ± 4.22e−05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

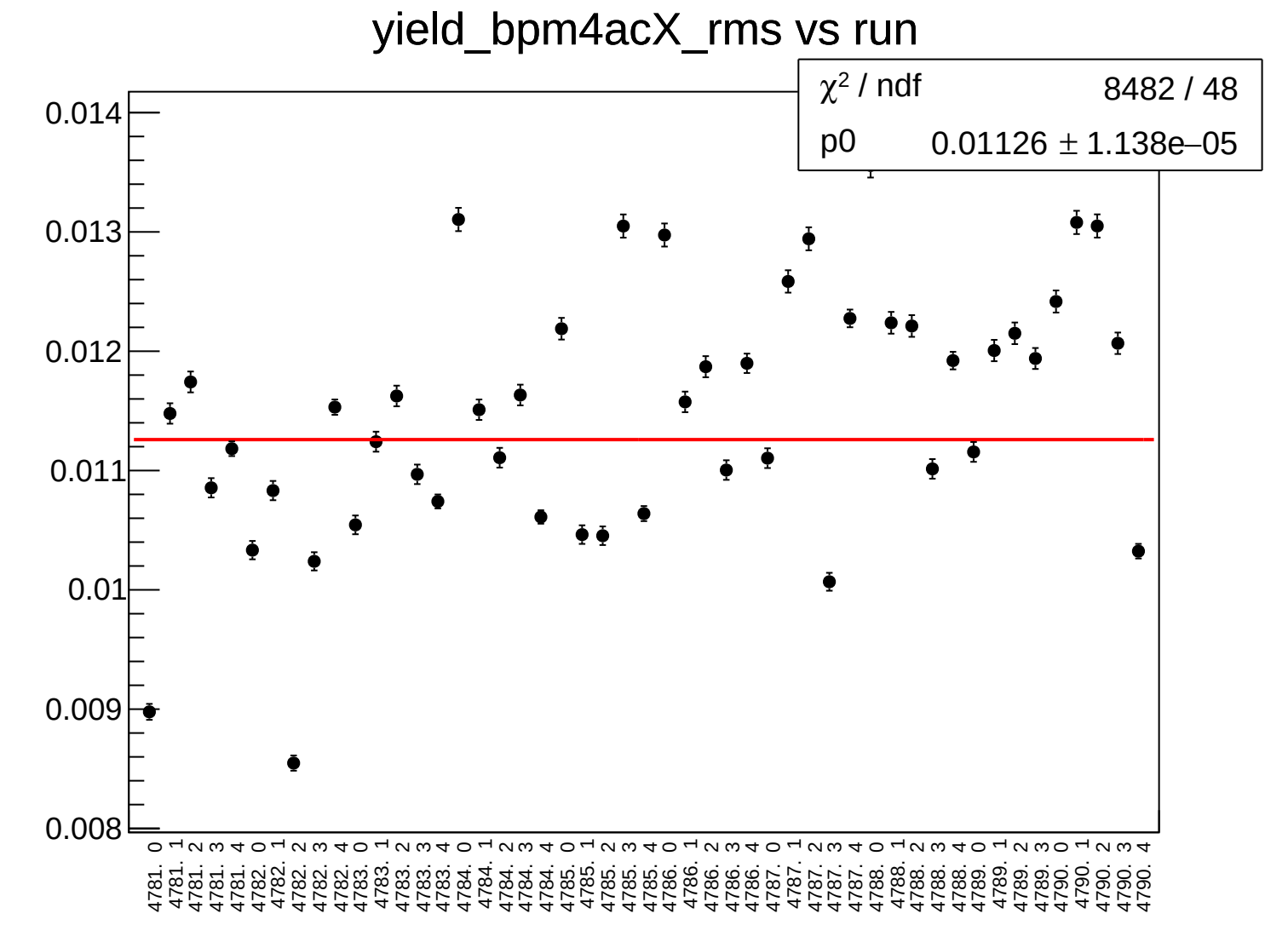

yield_bpm4eX_mean vs run
χ² / ndf 1.306e+04 / 48
p0 0.256 ± 8.857e−05
0.29
0.28
0.27
0.26
0.25
0.24
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 106
Std Dev 93.13
60
50
40
30
20
10
0
−10
−20
pull1D
Entries 49
Mean −0.6533
Std Dev 3.606
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

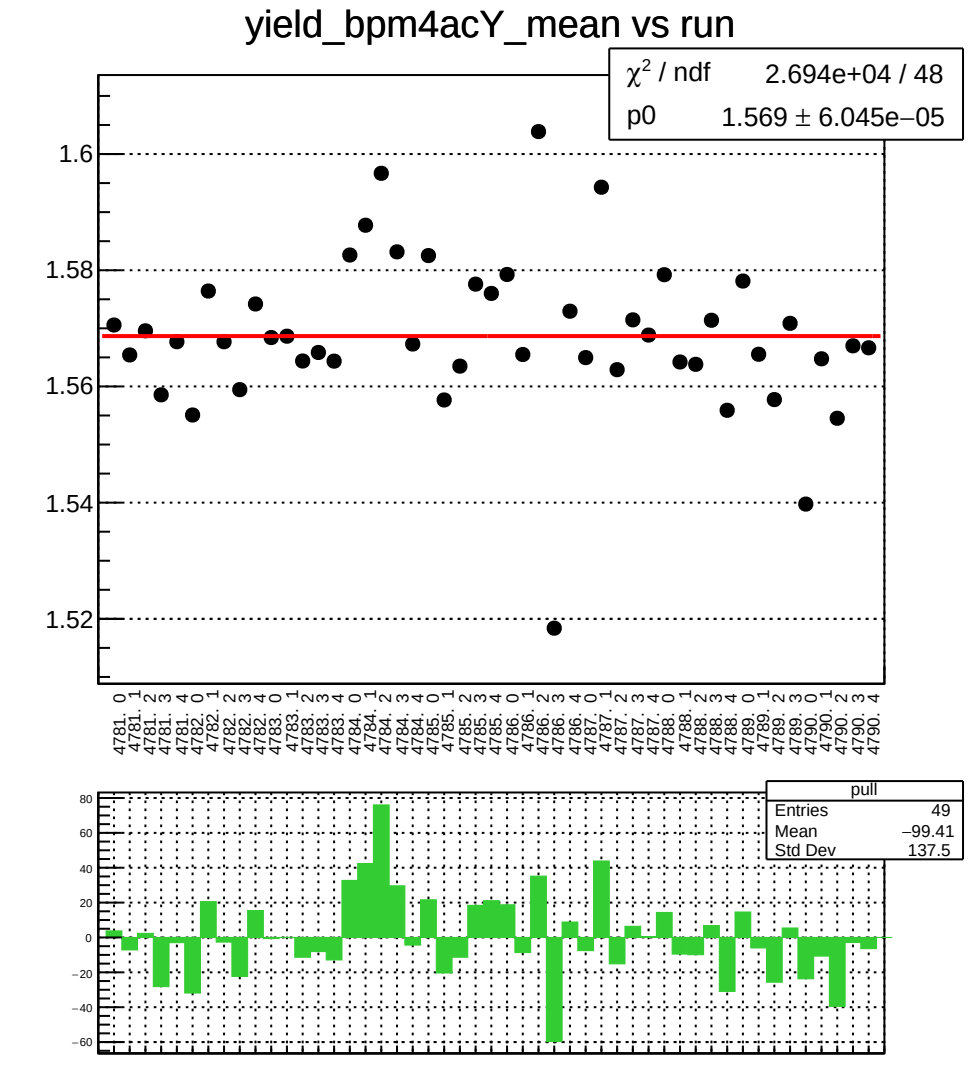

yield_bpm4eX_rms vs run
χ² / ndf 6742 / 48
p0 0.062 ± 6.263e–05
0.075
0.07
0.065
0.06
0.055
0.05
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

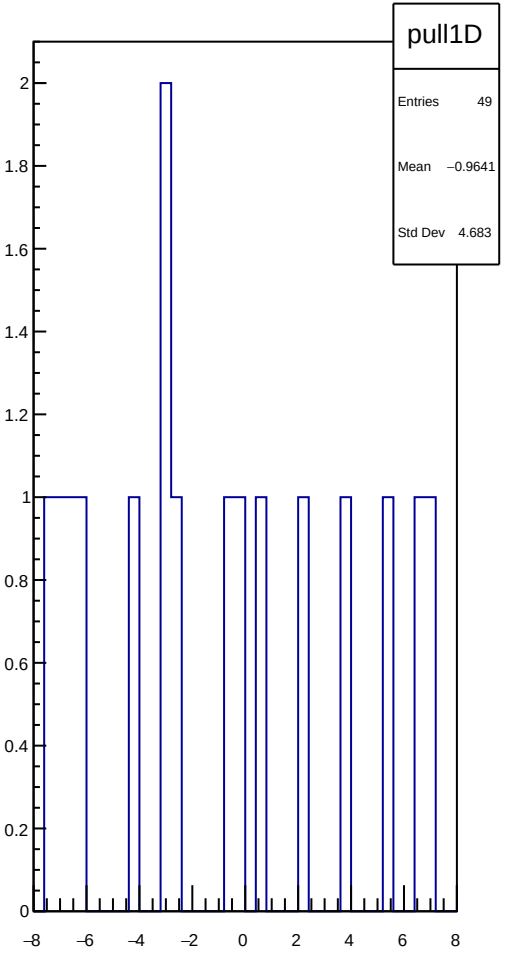

yield_bpm4eY_mean vs run
χ² / ndf 2.82e+04 / 48
p0 0.8606 ± 4.086e−05
0.89
0.88
0.87
0.86
0.85
0.84
0.83
0.82
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −450.1
Std Dev 487.2
60
40
20
0
−20
−40
−60
pull1D
Entries 49
Mean −0.9492
Std Dev 3.661
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

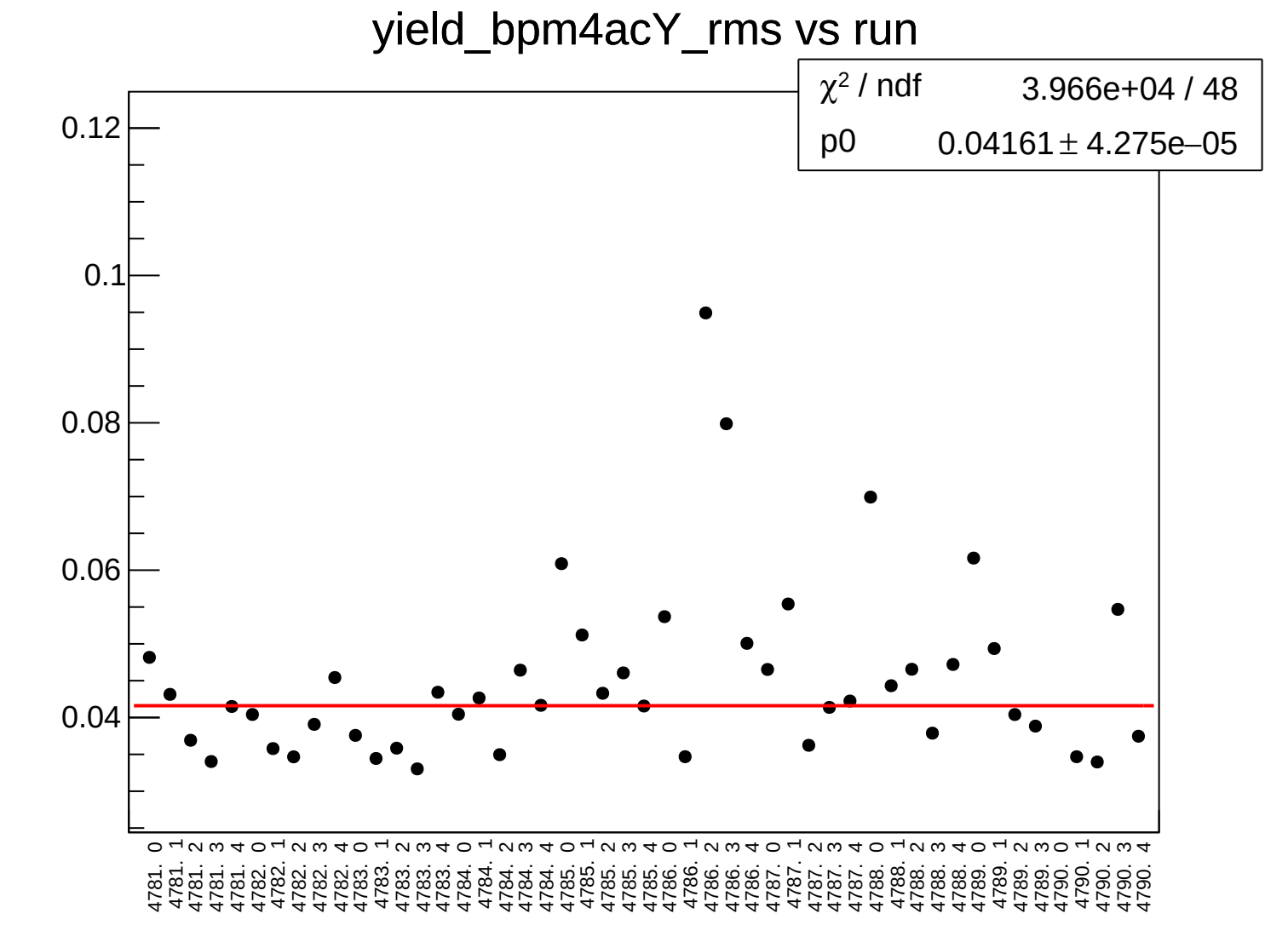

yield_bpm4eY_rms vs run
χ² / ndf 4.174e+04 / 48
p0 0.02809 ± 2.889e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

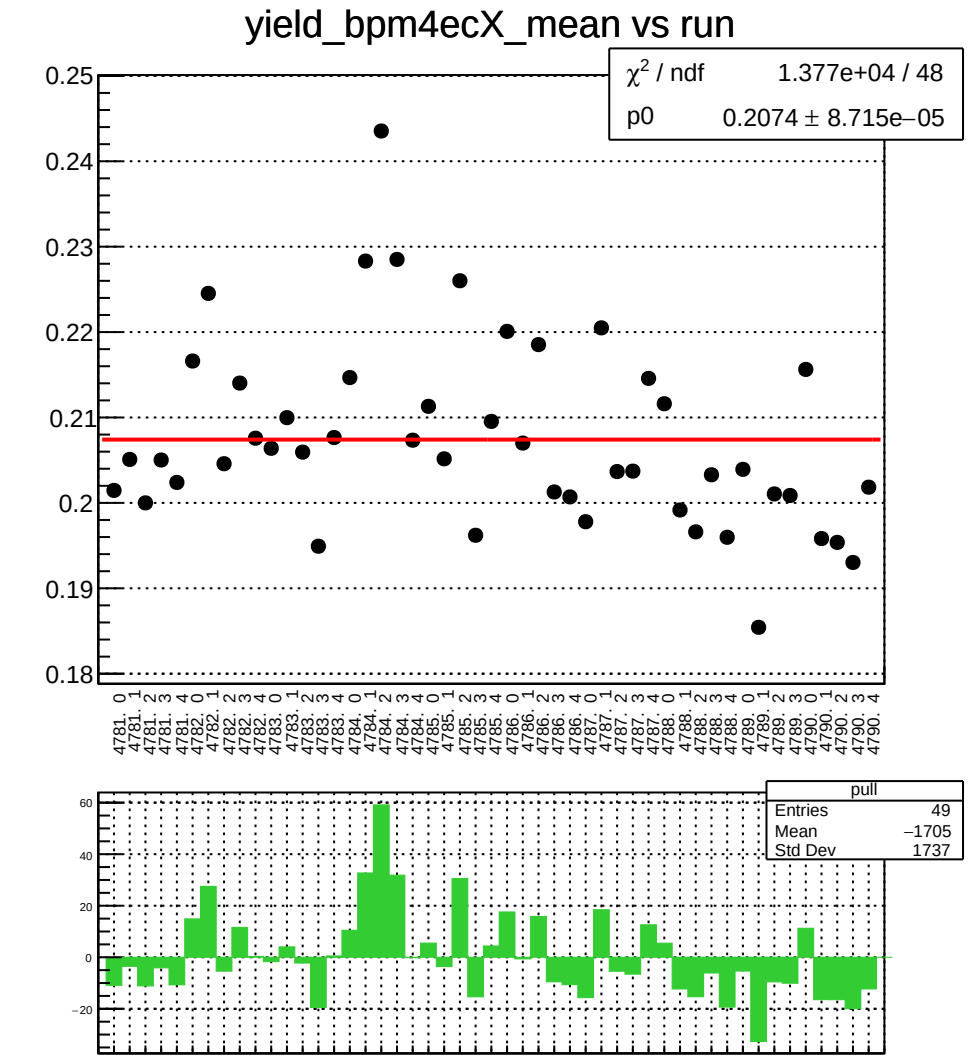

yield_bpm4acX_mean vs run
χ² / ndf 2.589e+04 / 48
p0 −0.4203 ± 1.61e−05
−0.412
−0.414
−0.416
−0.418
−0.42
−0.422
−0.424
−0.426
−0.428
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 92.67
Std Dev 76.52
60
40
20
0
−20
−40
pull1D
Entries 49
Mean −0.3232
Std Dev 4.902
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

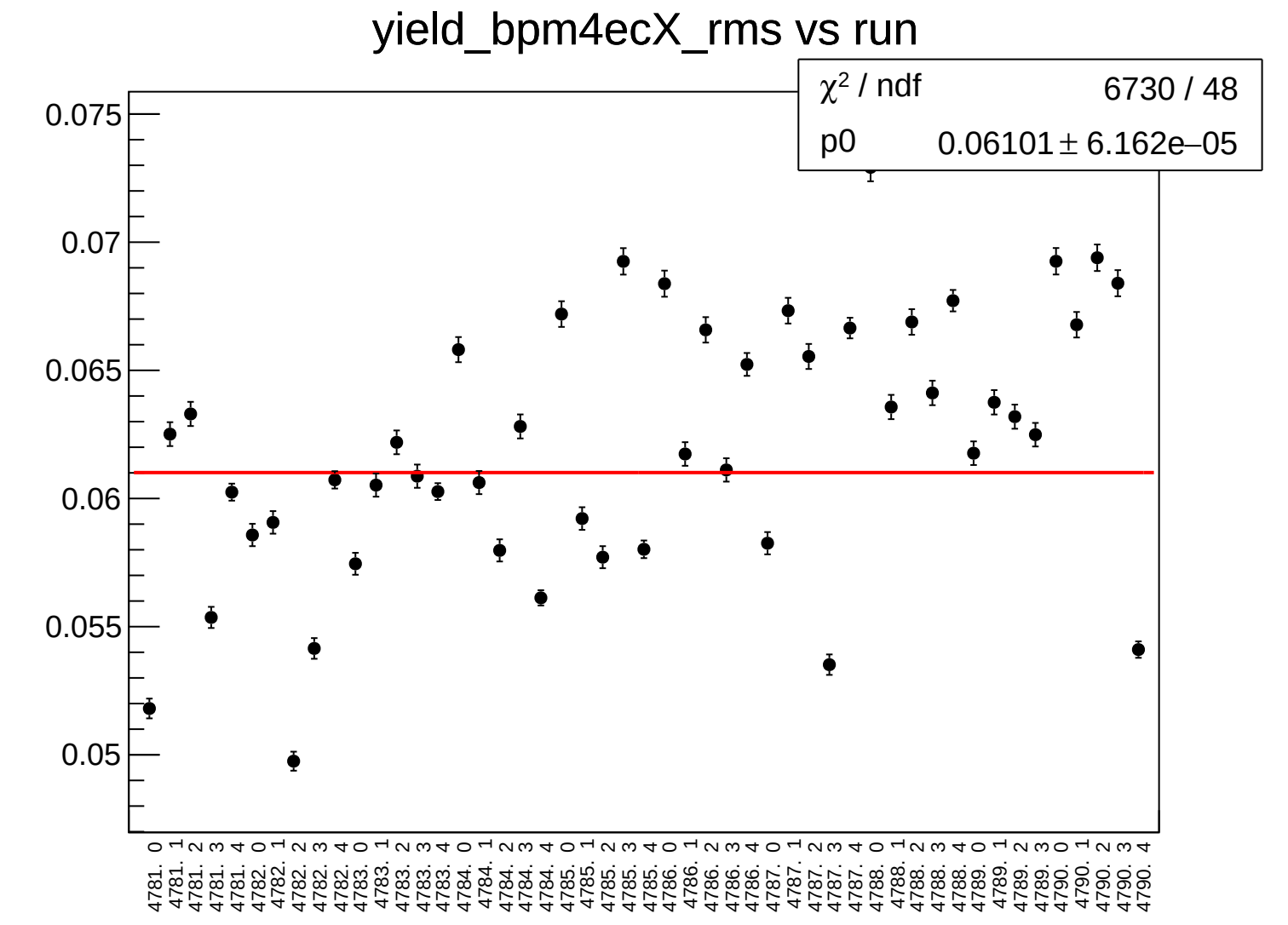

yield_bpm4acX_rms vs run
χ² / ndf 8482 / 48
p0 0.01126 ± 1.138e–05
0.014
0.013
0.012
0.011
0.01
0.009
0.008
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

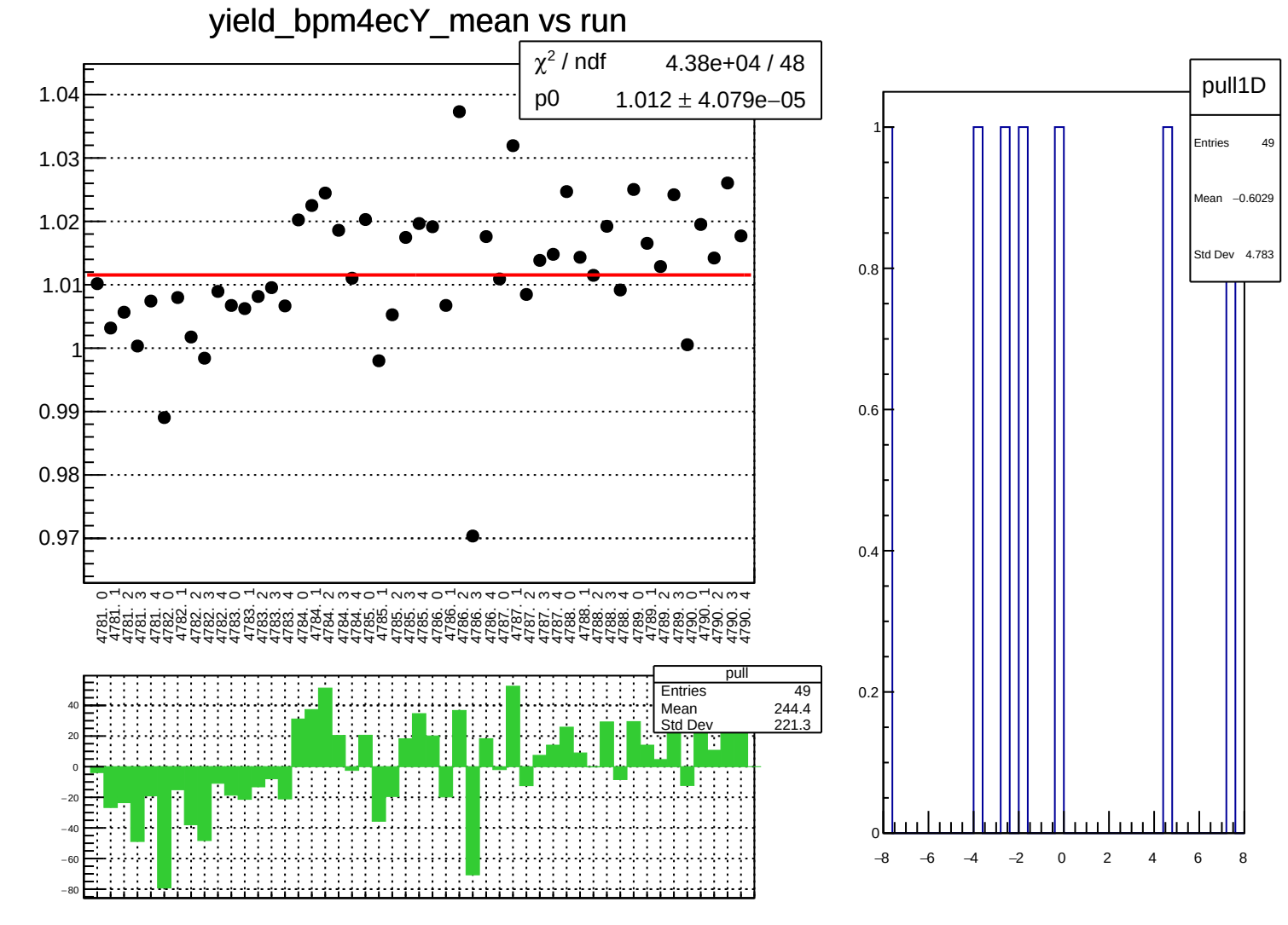

yield_bpm4acY_mean vs run
χ² / ndf 2.694e+04 / 48
p0 1.569 ± 6.045e−05
1.6
1.58
1.56
1.54
1.52
pull
Entries 49
Mean −99.41
Std Dev 137.5
80
60
40
20
0
−20
−40
−60

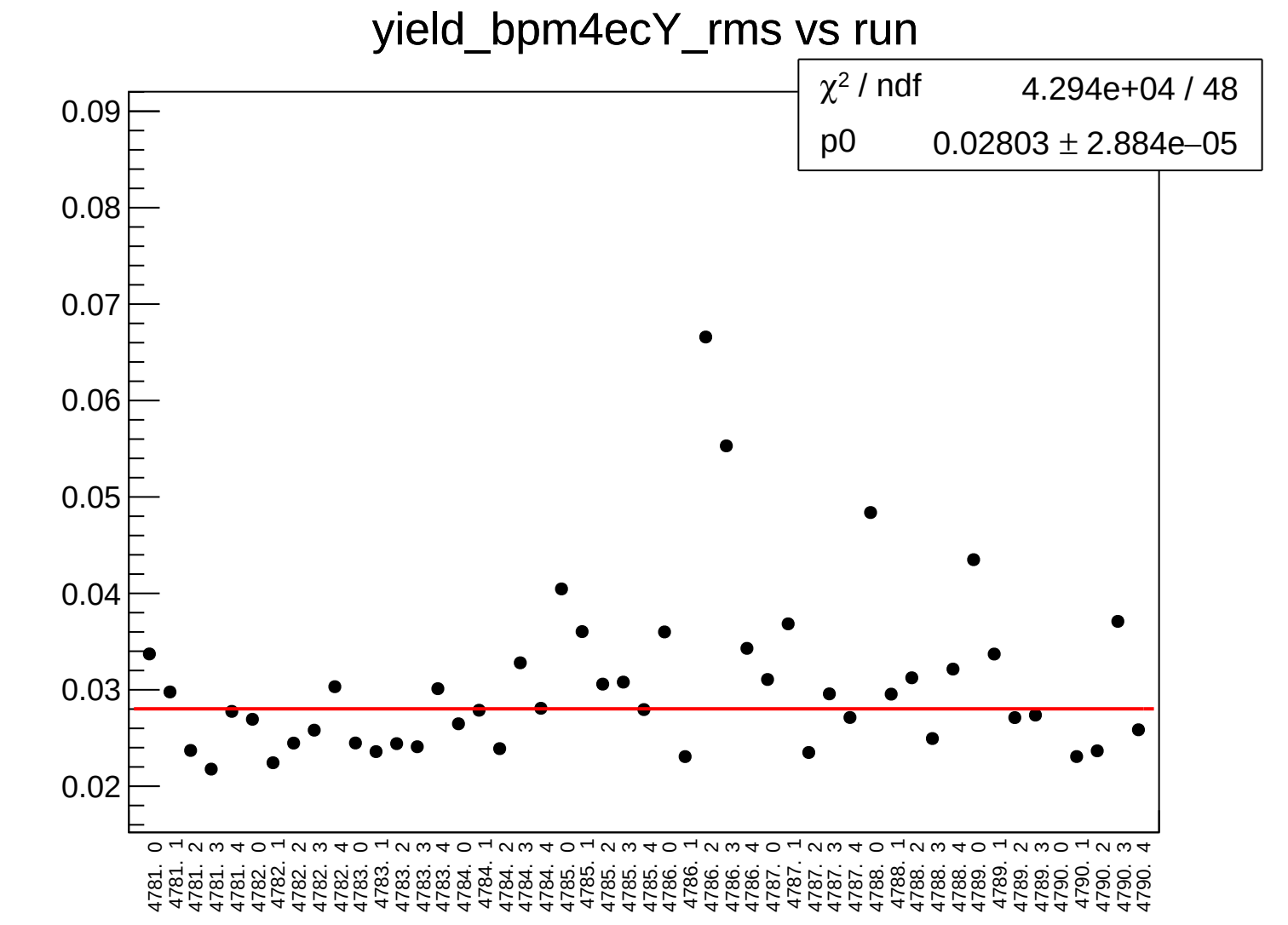

pull1D
Entries 49
Mean −0.9641
Std Dev 4.683
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

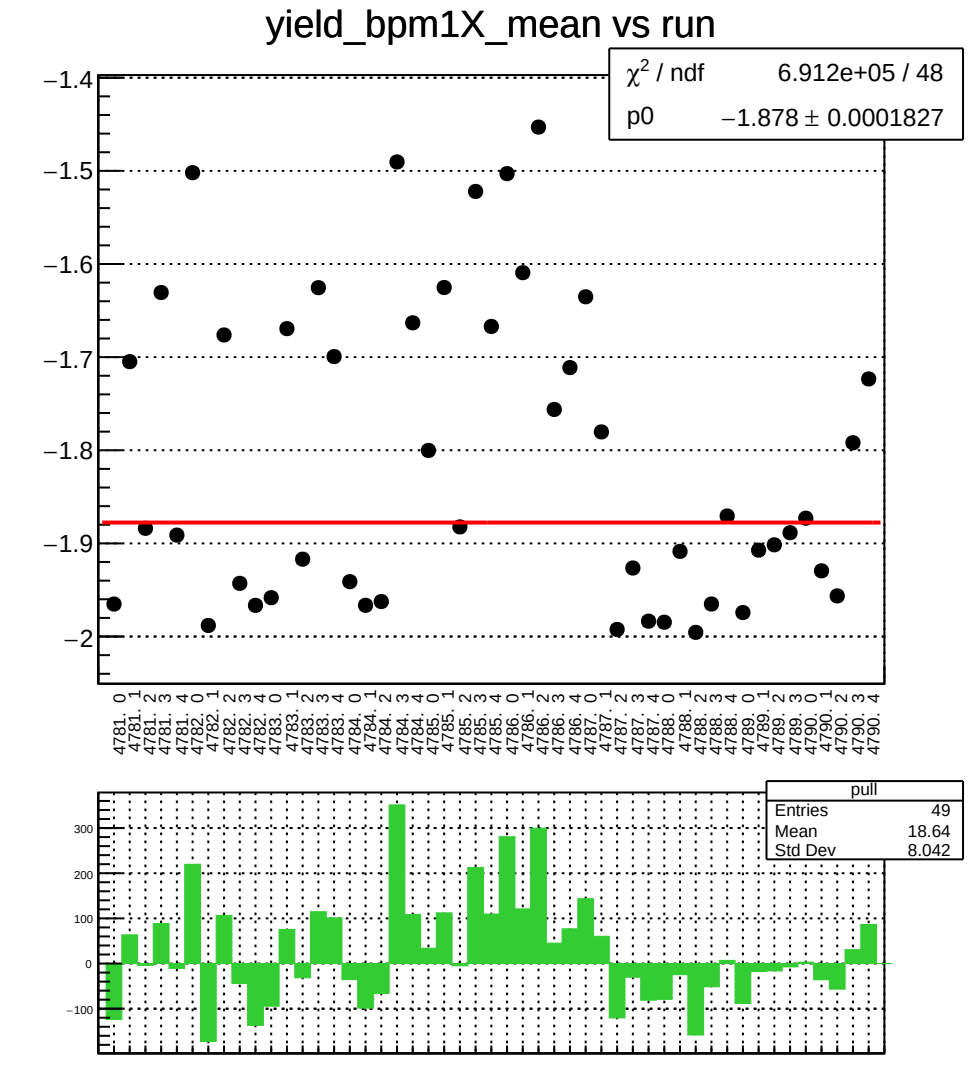

yield_bpm4acY_rms vs run
χ² / ndf 3.966e+04 / 48
p0 0.04161 ± 4.275e–05
0.12
0.1
0.08
0.06
0.04
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

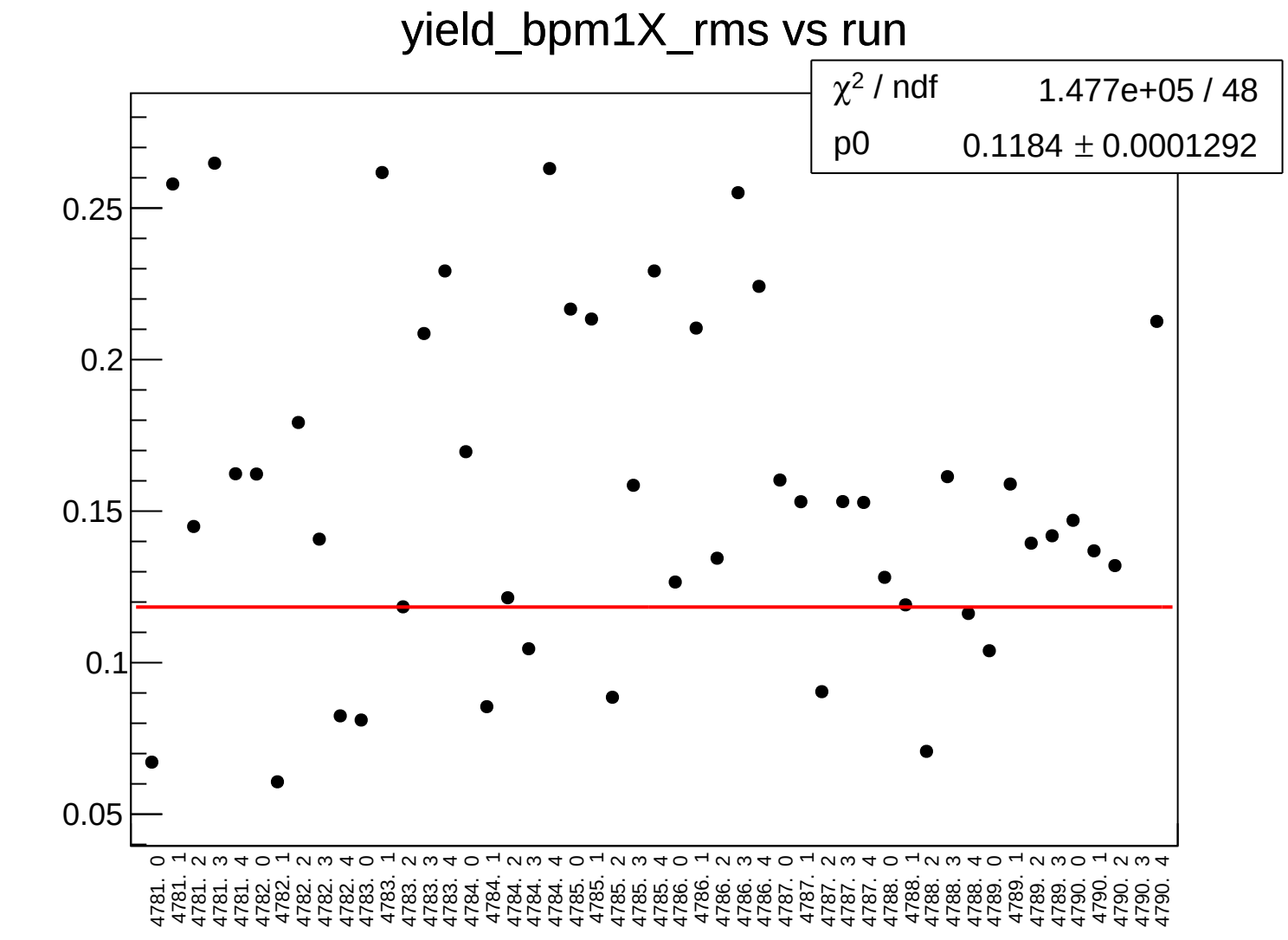

yield_bpm4ecX_mean vs run
χ² / ndf 1.377e+04 / 48
p0 0.2074 ± 8.715e−05
0.25
0.24
0.23
0.22
0.21
0.2
0.19
0.18
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −1705
Std Dev 1737
60
40
20
0
−20
pull1D
Entries 49
Mean −1.363
Std Dev 3.944
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

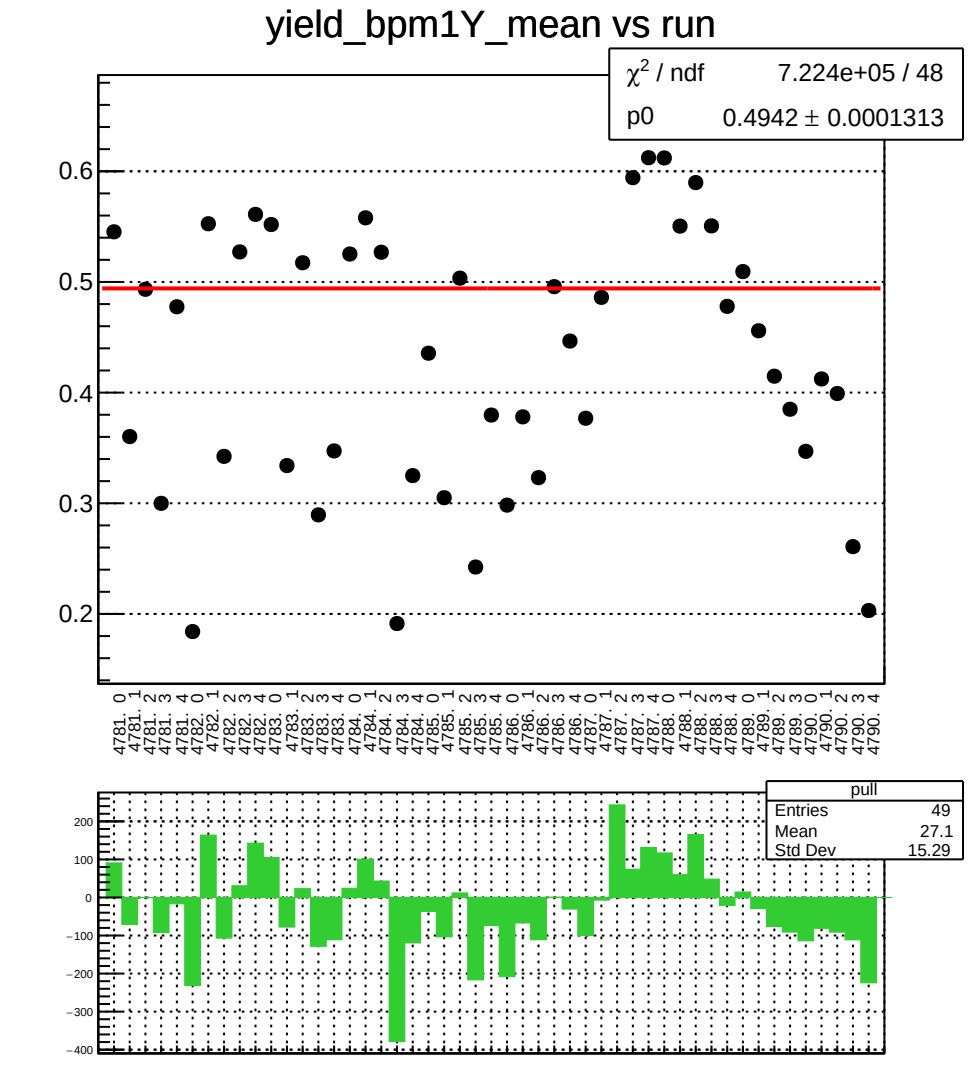

yield_bpm4ecX_rms vs run
χ² / ndf 6730 / 48
p0 0.06101 ± 6.162e–05
0.075
0.07
0.065
0.06
0.055
0.05
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

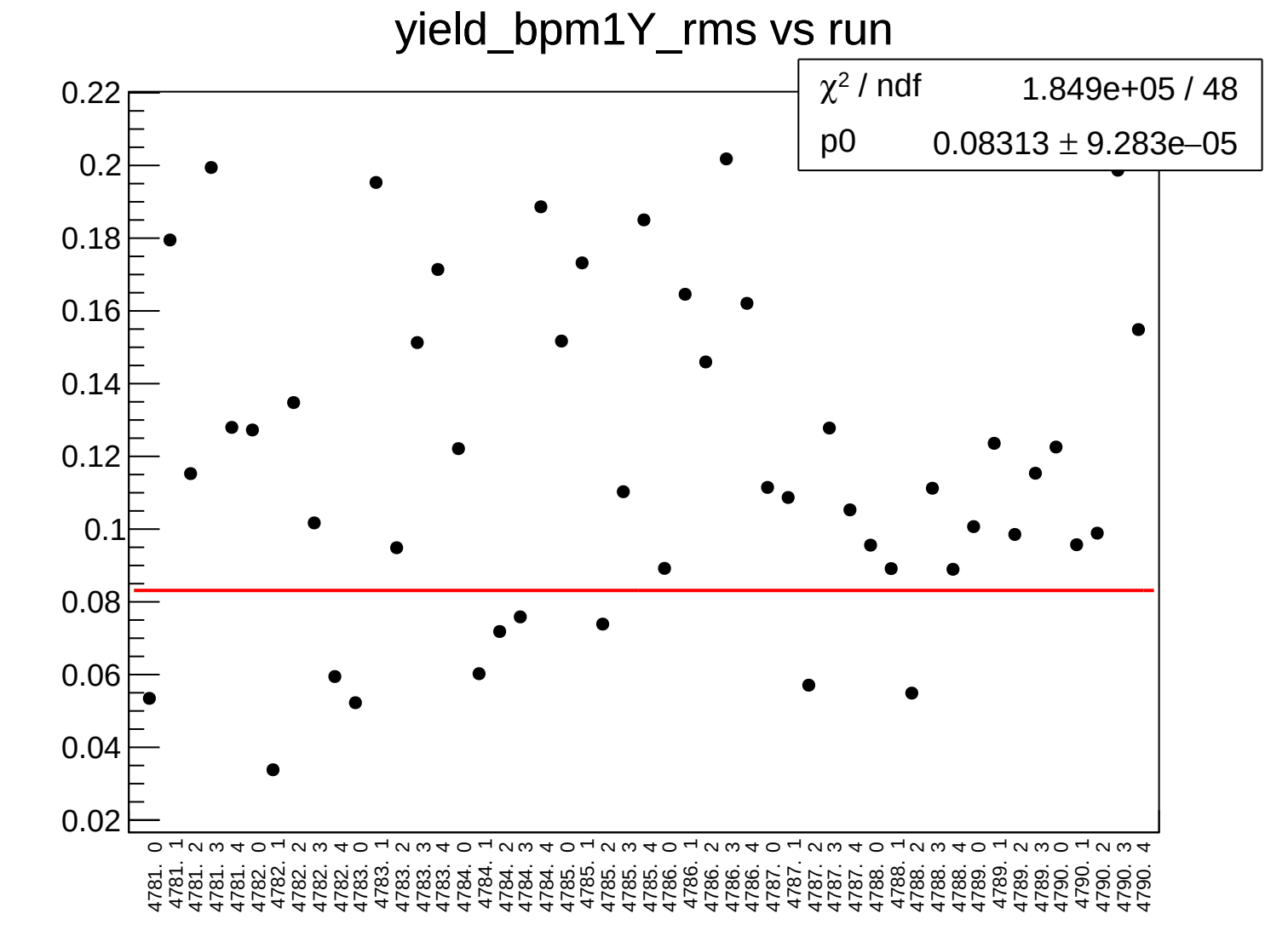

yield_bpm4ecY_mean vs run
χ² / ndf 4.38e+04 / 48
p0 1.012 ± 4.079e−05
1.04
1.03
1.02
1.01
1
0.99
0.98
0.97
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 244.4
Std Dev 221.3
40
20
0
−20
−40
−60
−80
pull1D
Entries 49
Mean −0.6029
Std Dev 4.783
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

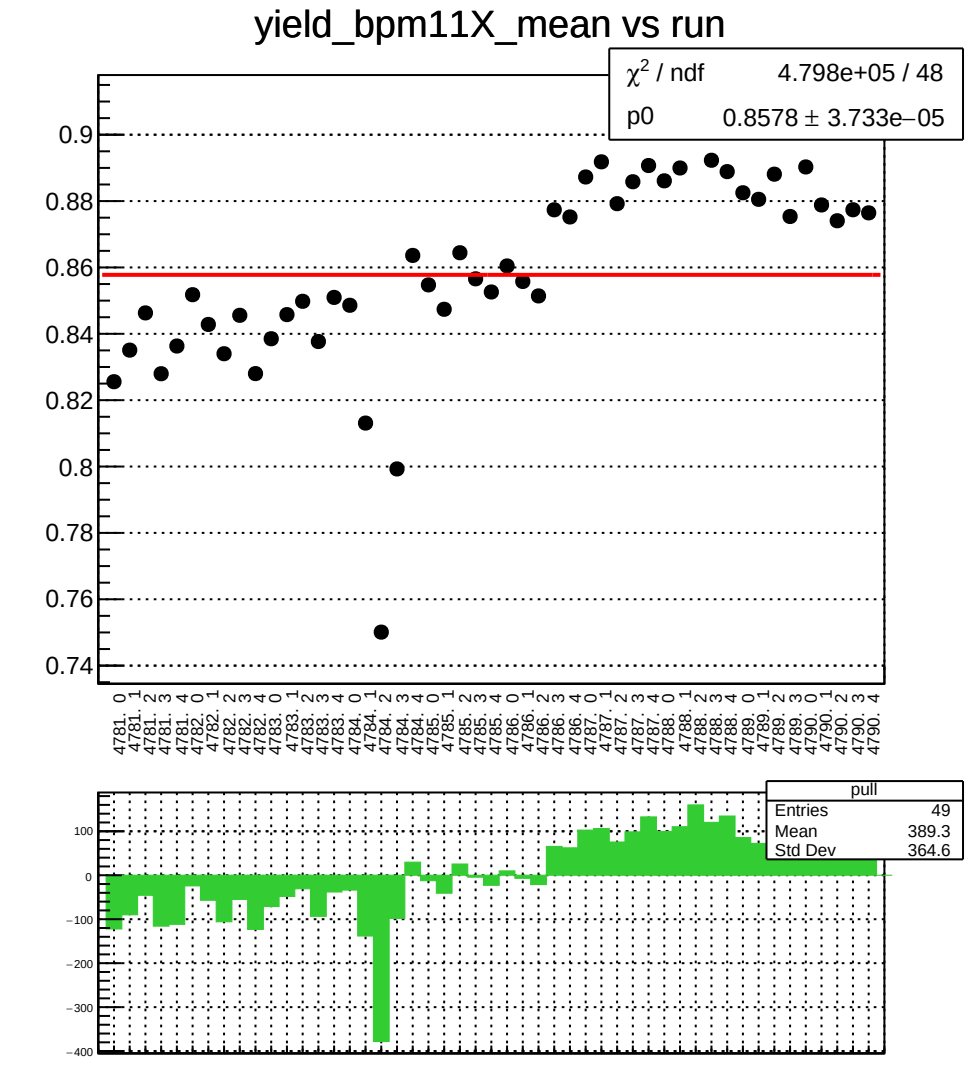

yield_bpm4ecY_rms vs run
χ² / ndf 4.294e+04 / 48
p0 0.02803 ± 2.884e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

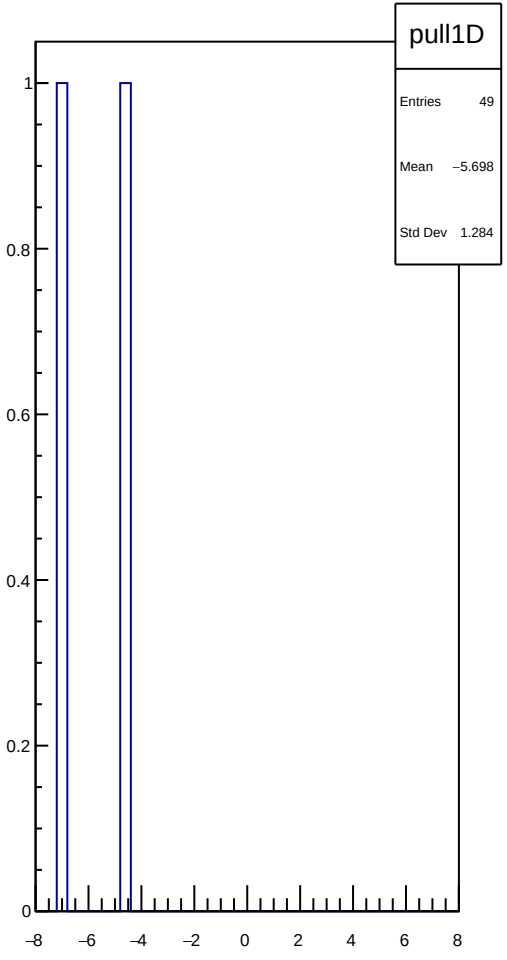

yield_bpm1X_mean vs run
χ² / ndf 6.912e+05 / 48
p0 −1.878 ± 0.0001827
−1.4
−1.5
−1.6
−1.7
−1.8
−1.9
−2
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4798. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 18.64
Std Dev 8.042
300
200
100
0
−100
pull1D
Entries 49
Mean −1.294
Std Dev 5.379
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

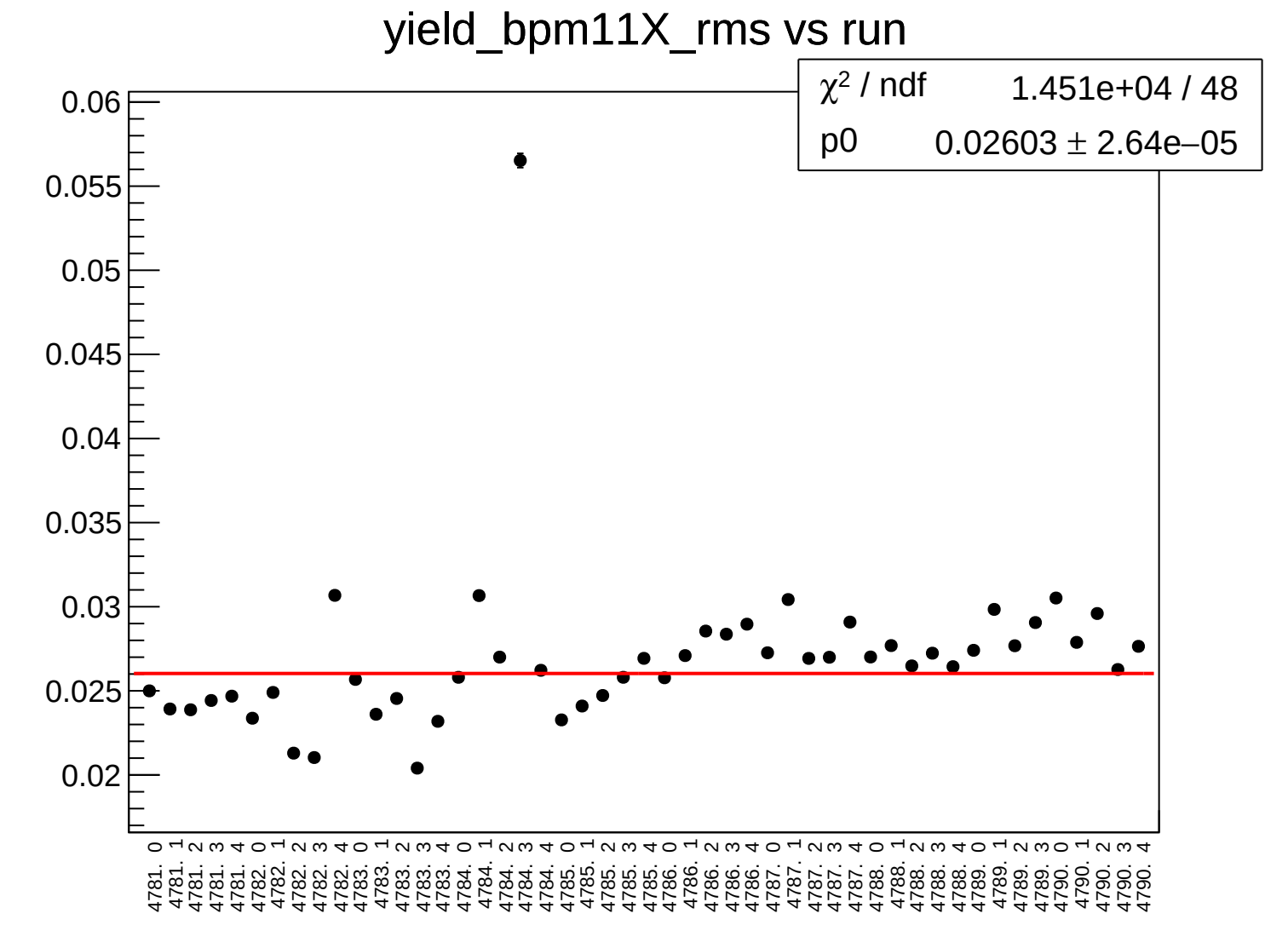

yield_bpm1X_rms vs run
χ² / ndf 1.477e+05 / 48
p0 0.1184 ± 0.0001292
0.25
0.2
0.15
0.1
0.05
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

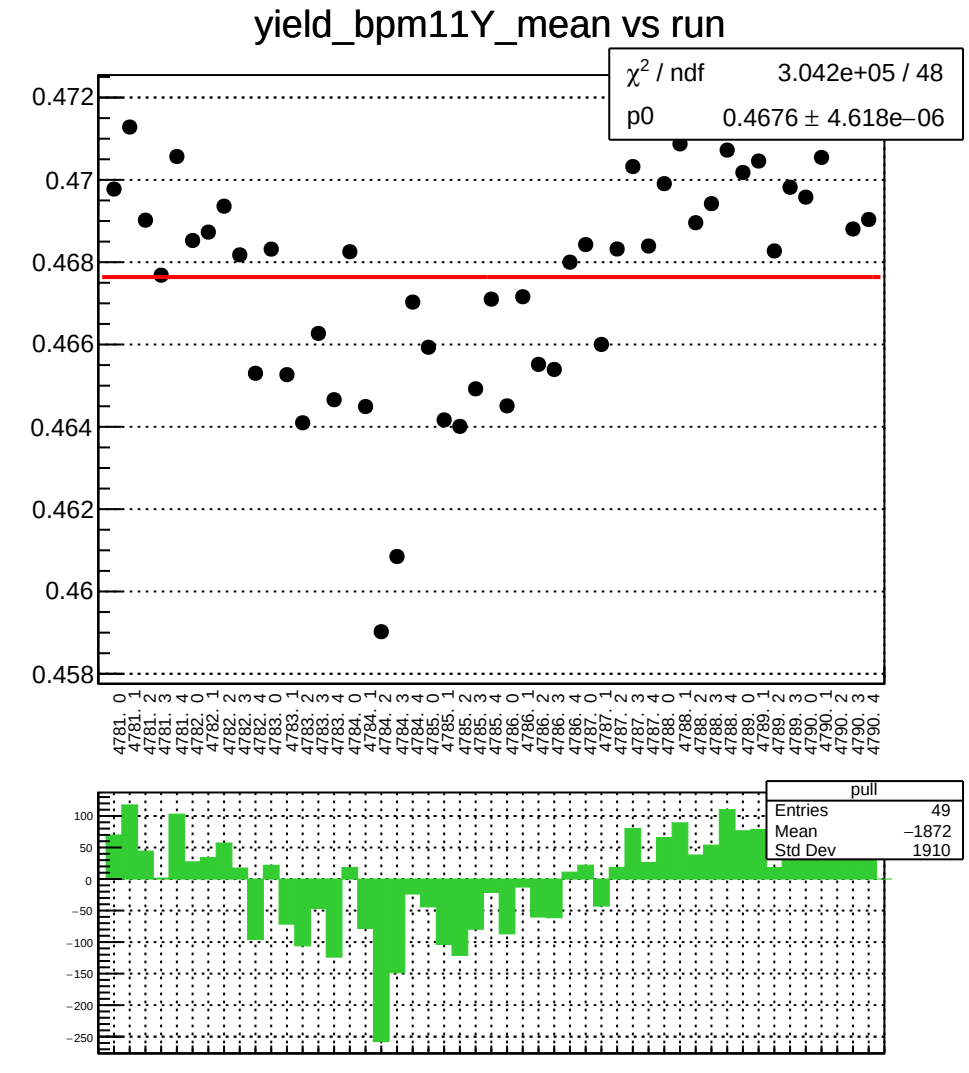

yield_bpm1Y_mean vs run
χ² / ndf 7.224e+05 / 48
p0 0.4942 ± 0.0001313
0.6
0.5
0.4
0.3
0.2
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 27.1
Std Dev 15.29
200
100
0
−100
−200
−300
−400
pull1D
Entries 49
Mean −2.316
Std Dev 3.394
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

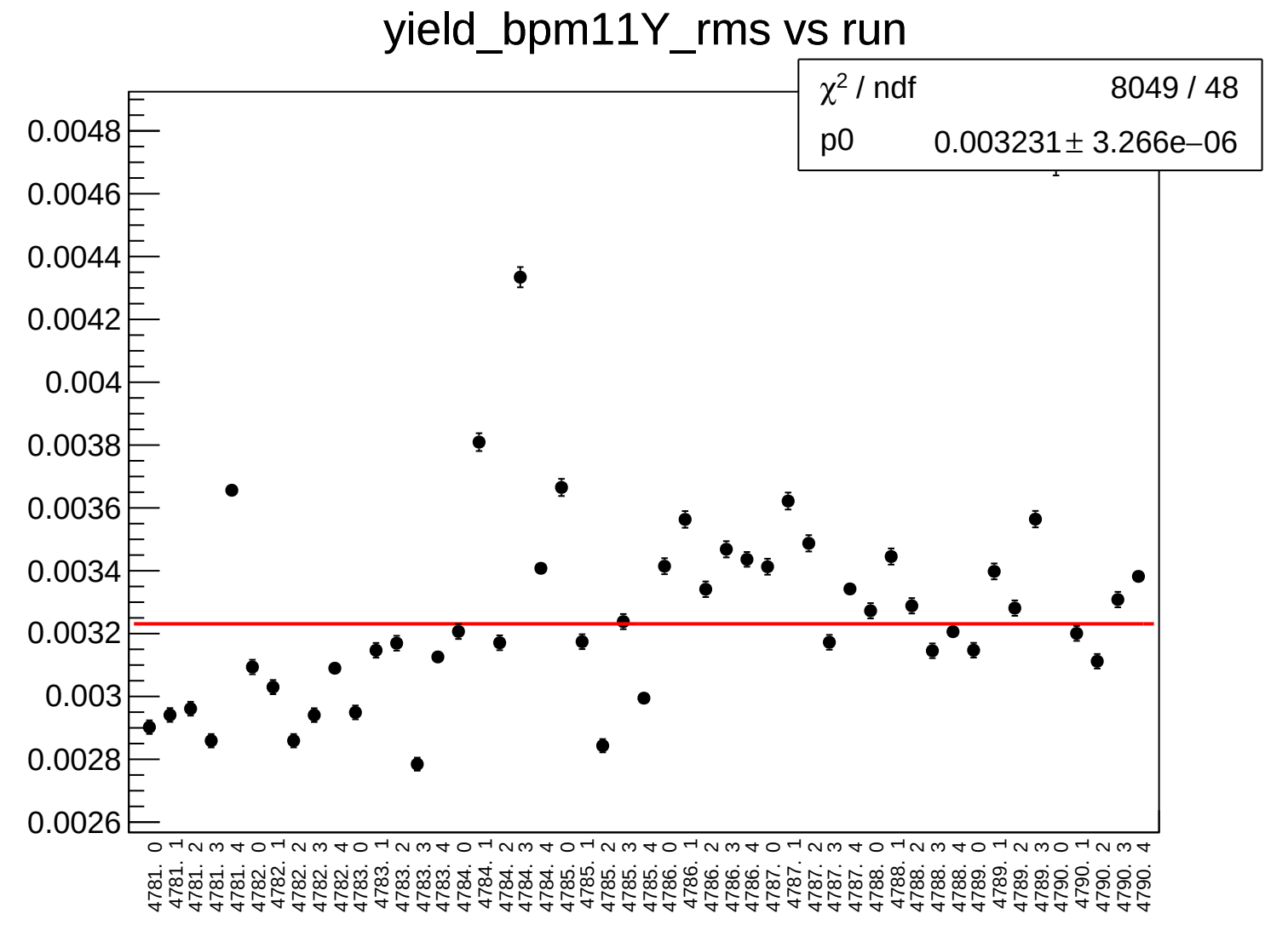

yield_bpm1Y_rms vs run
χ² / ndf 1.849e+05 / 48
p0 0.08313 ± 9.283e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

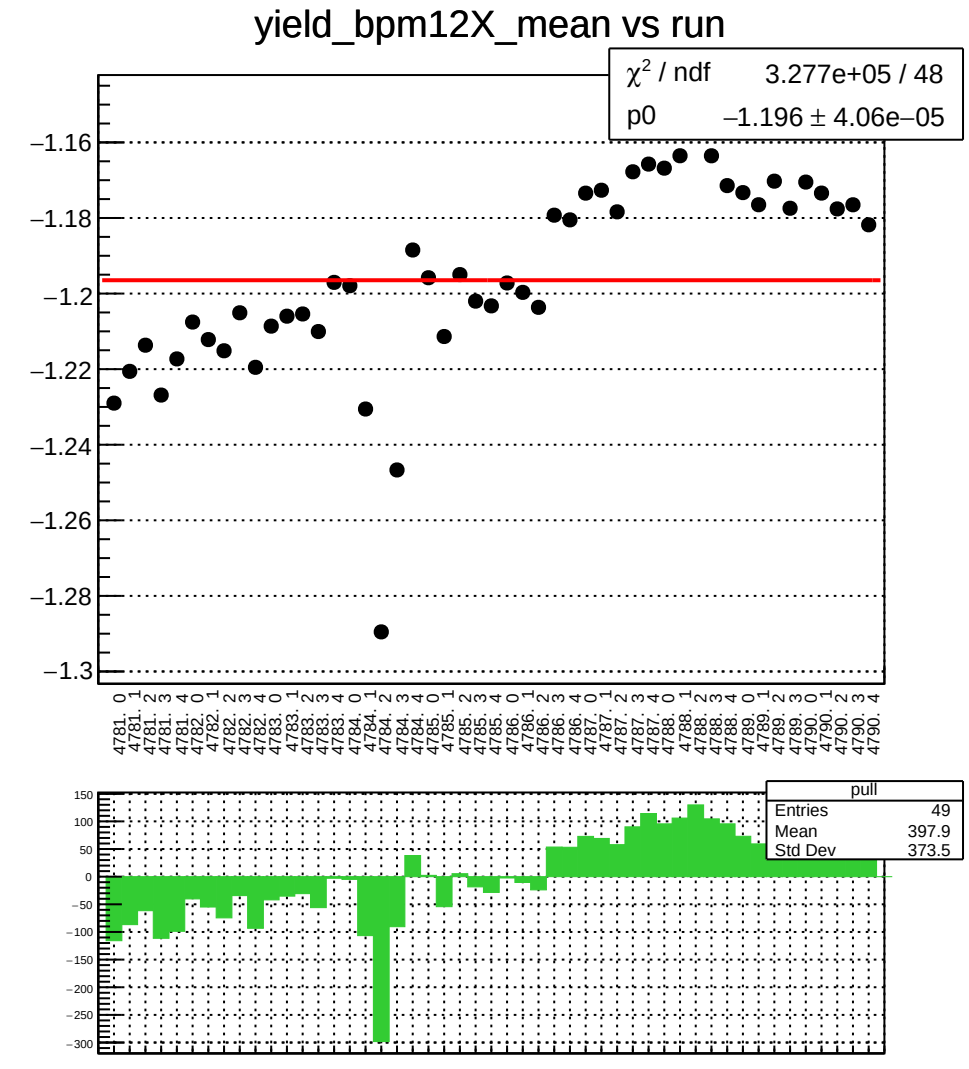

yield_bpm11X_mean vs run
χ² / ndf 4.798e+05 / 48
p0 0.8578 ± 3.733e−05
pull
Entries 49
Mean 389.3
Std Dev 364.6

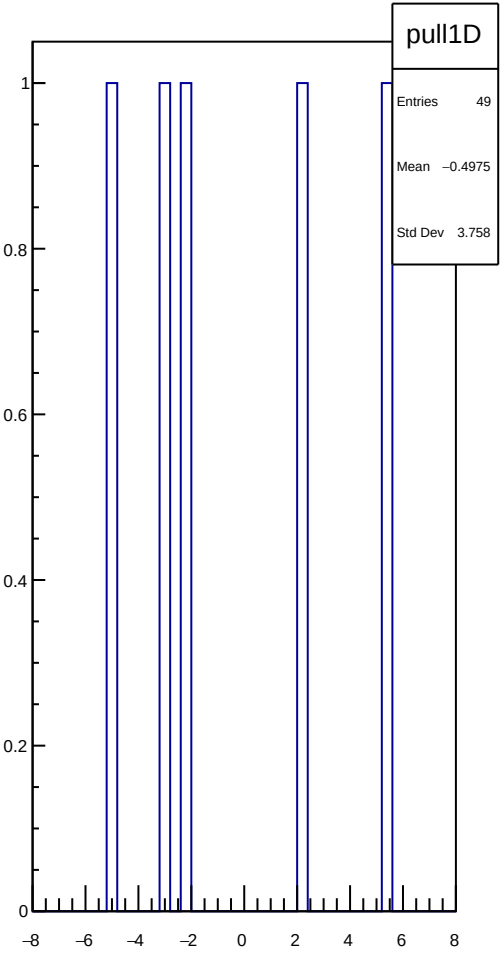

pull1D
Entries 49
Mean −5.698
Std Dev 1.284

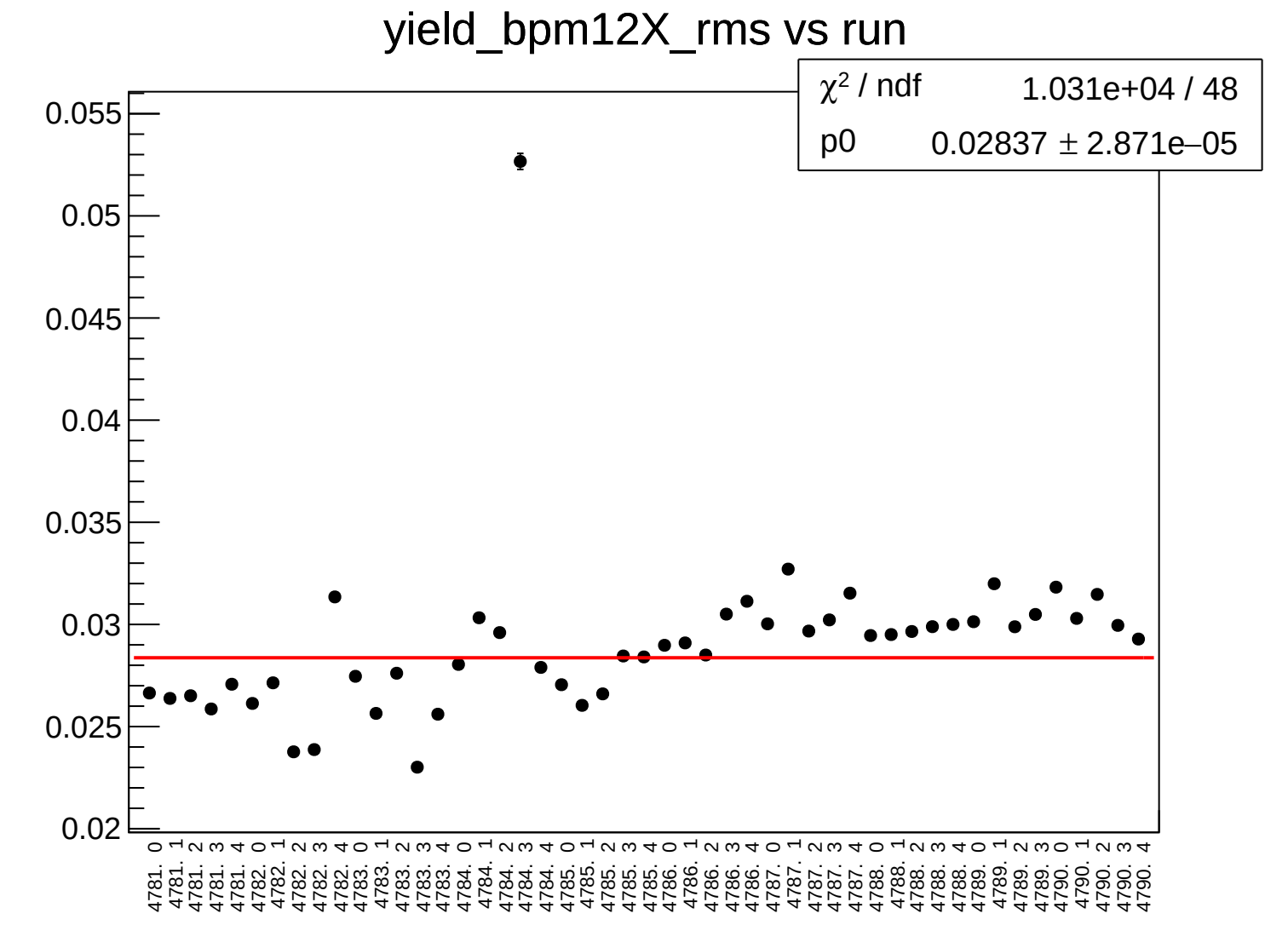

yield_bpm11X_rms vs run
χ² / ndf 1.451e+04 / 48
p0 0.02603 ± 2.64e−05
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

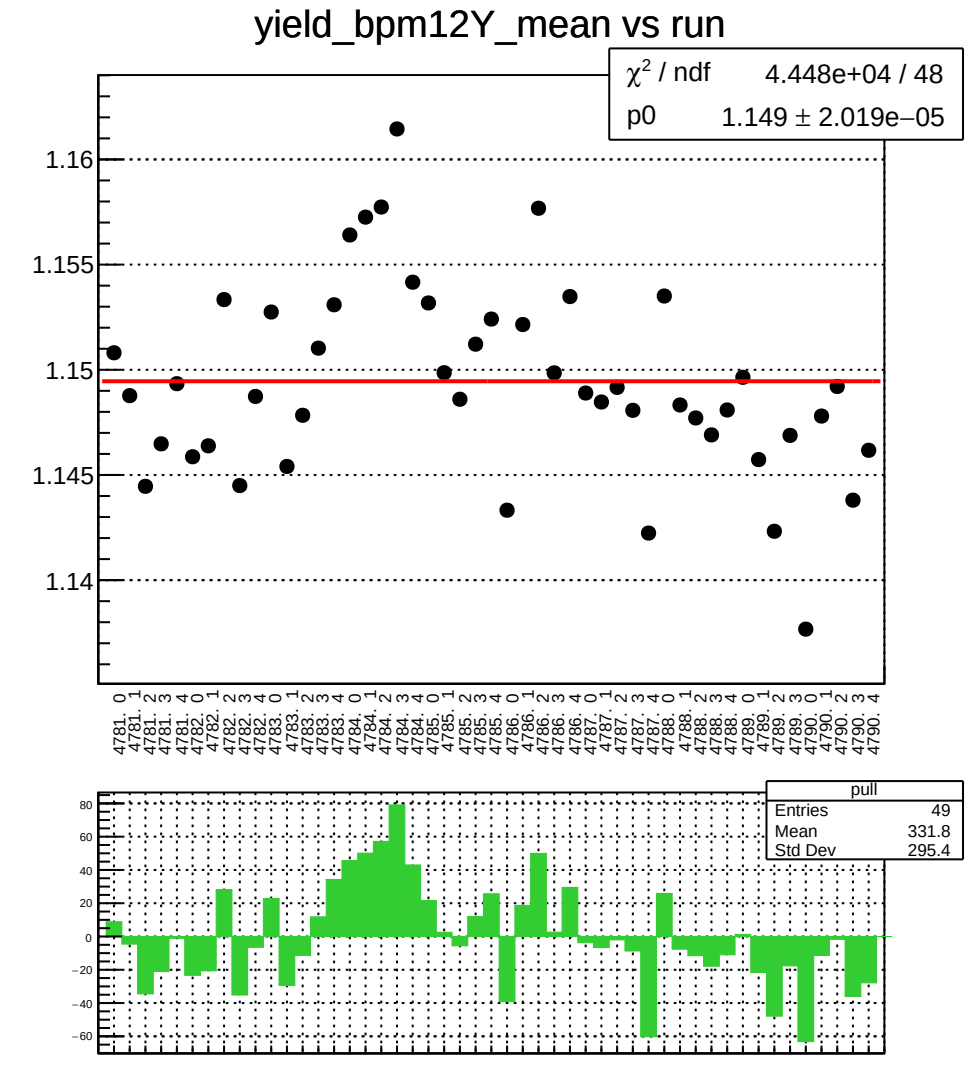

yield_bpm11Y_mean vs run
χ² / ndf 3.042e+05 / 48
p0 0.4676 ± 4.618e−06
0.472
0.47
0.468
0.466
0.464
0.462
0.46
0.458
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −1872
Std Dev 1910
100
50
0
−50
−100
−150
−200
−250
pull1D
Entries 49
Mean 1.523
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

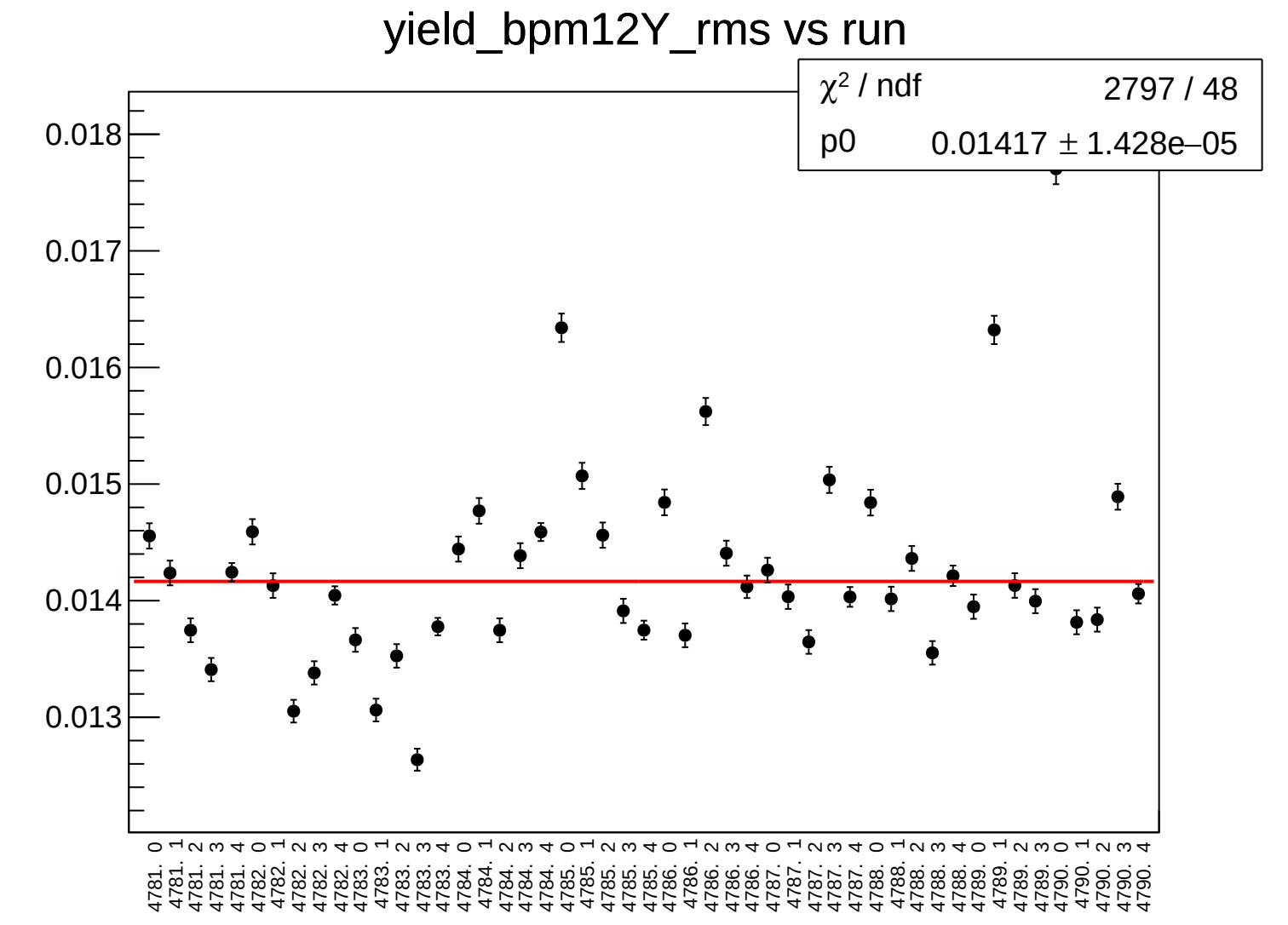

yield_bpm11Y_rms vs run
χ² / ndf 8049 / 48
p0 0.003231 ± 3.266e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

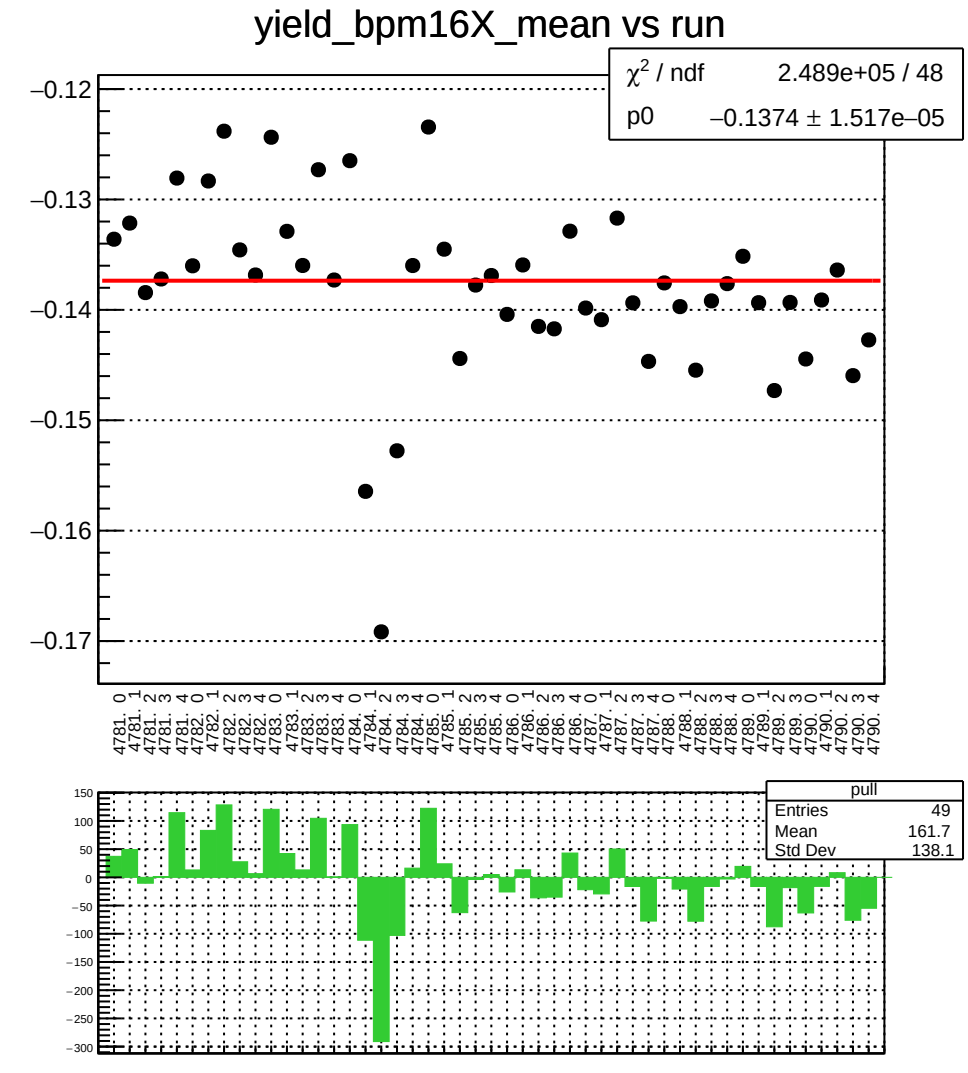

yield_bpm12X_mean vs run
χ² / ndf 3.277e+05 / 48
p0 −1.196 ± 4.06e−05
−1.16
−1.18
−1.2
−1.22
−1.24
−1.26
−1.28
−1.3
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
150
100
50
0
−50
−100
−150
−200
−250
−300
pull
Entries 49
Mean 397.9
Std Dev 373.5

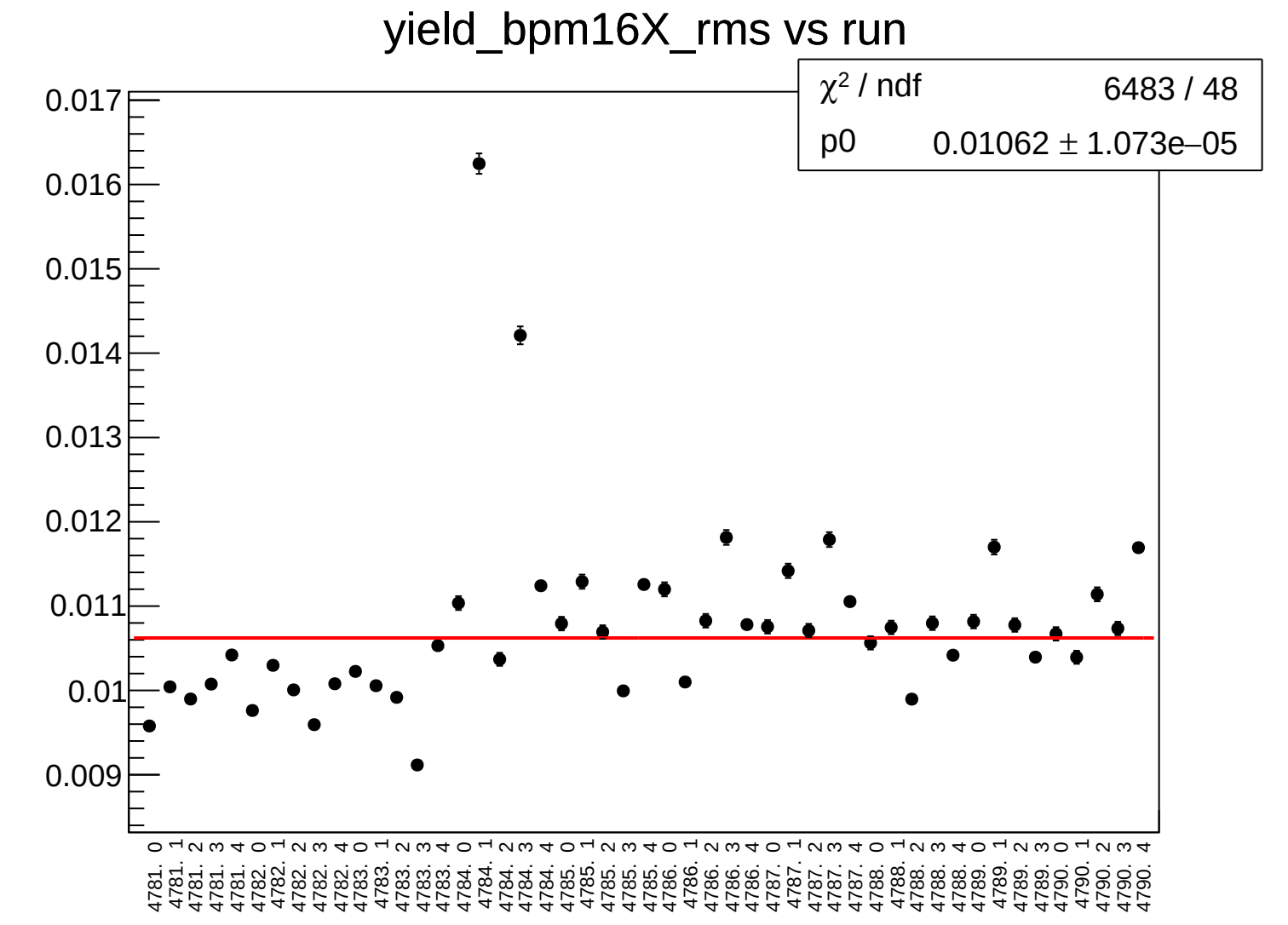

pull1D
Entries 49
Mean −0.4975
Std Dev 3.758
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

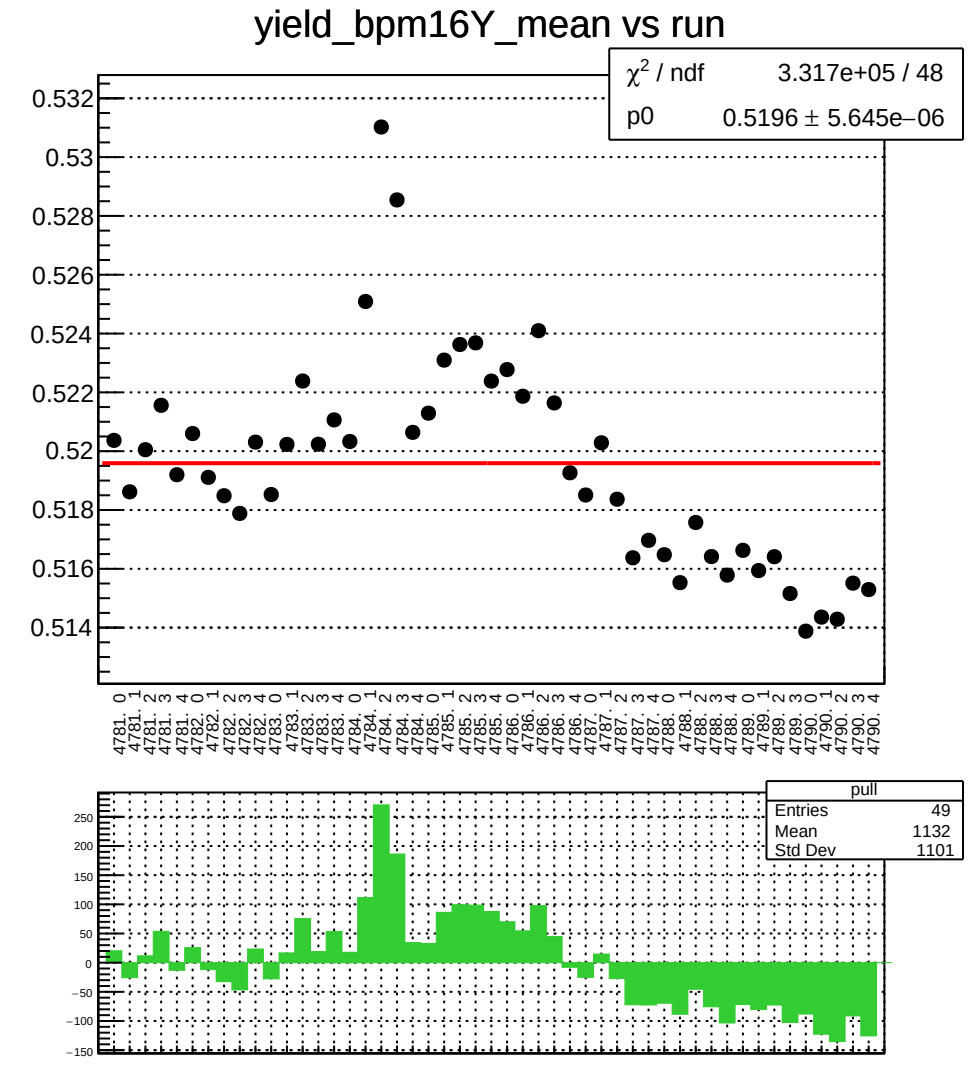

yield_bpm12X_rms vs run
χ² / ndf 1.031e+04 / 48
p0 0.02837 ± 2.871e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

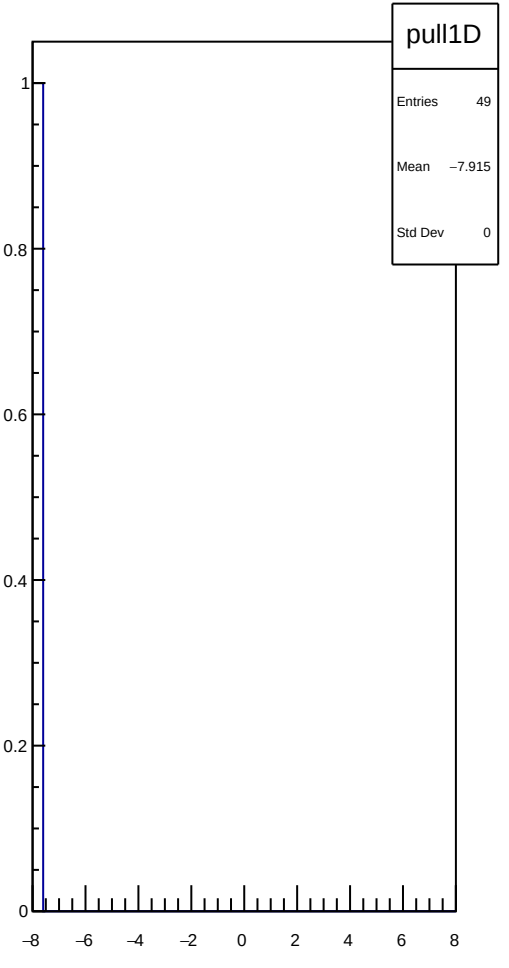

yield_bpm12Y_mean vs run
χ² / ndf 4.448e+04 / 48
p0 1.149 ± 2.019e−05
1.16
1.155
1.15
1.145
1.14
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 331.8
Std Dev 295.4
80
60
40
20
0
−20
−40
−60
pull1D
Entries 49
Mean −2.751
Std Dev 3.459
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

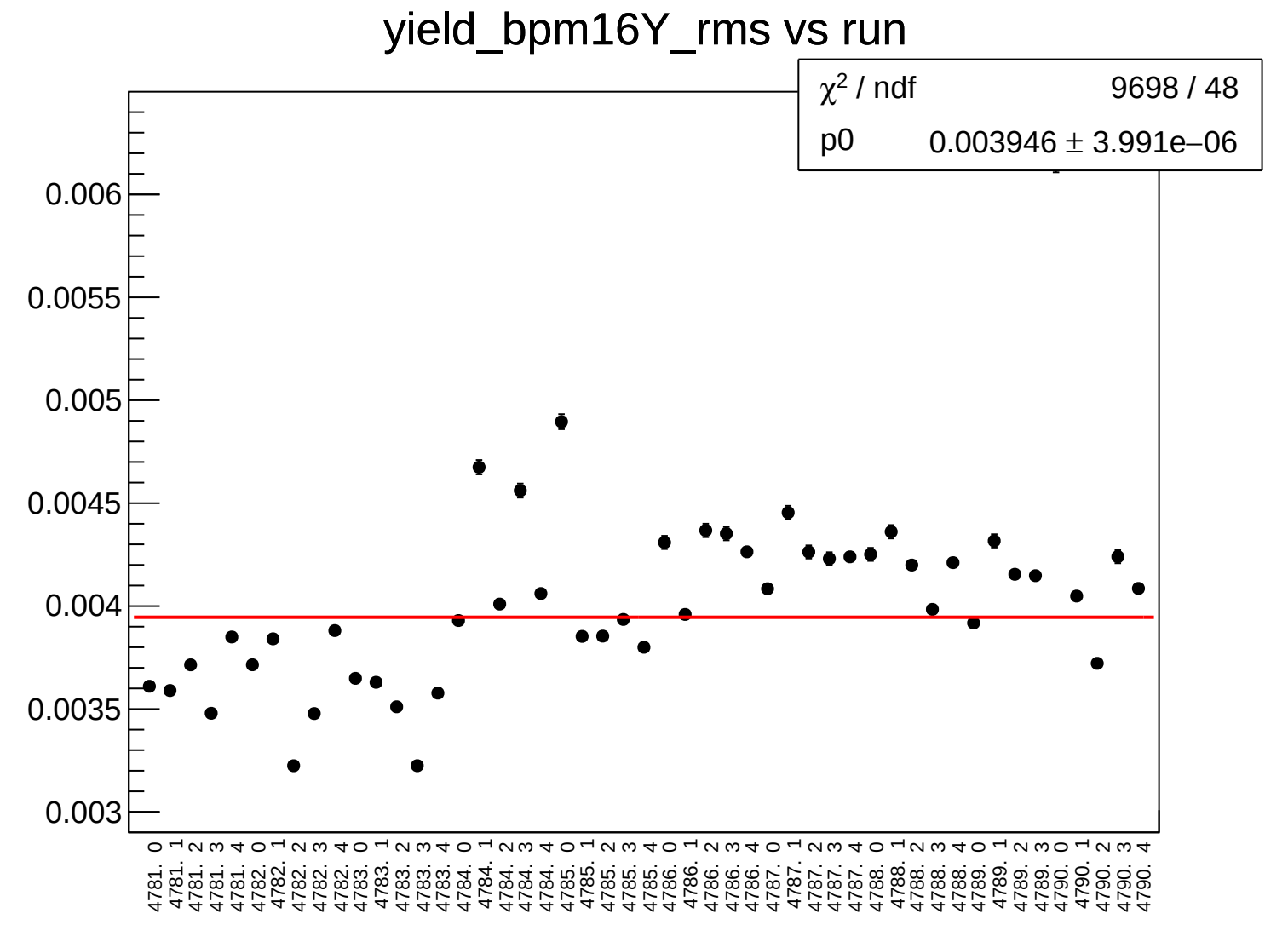

yield_bpm12Y_rms vs run
χ² / ndf 2797 / 48
p0 0.01417 ± 1.428e–05
0.018
0.017
0.016
0.015
0.014
0.013
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

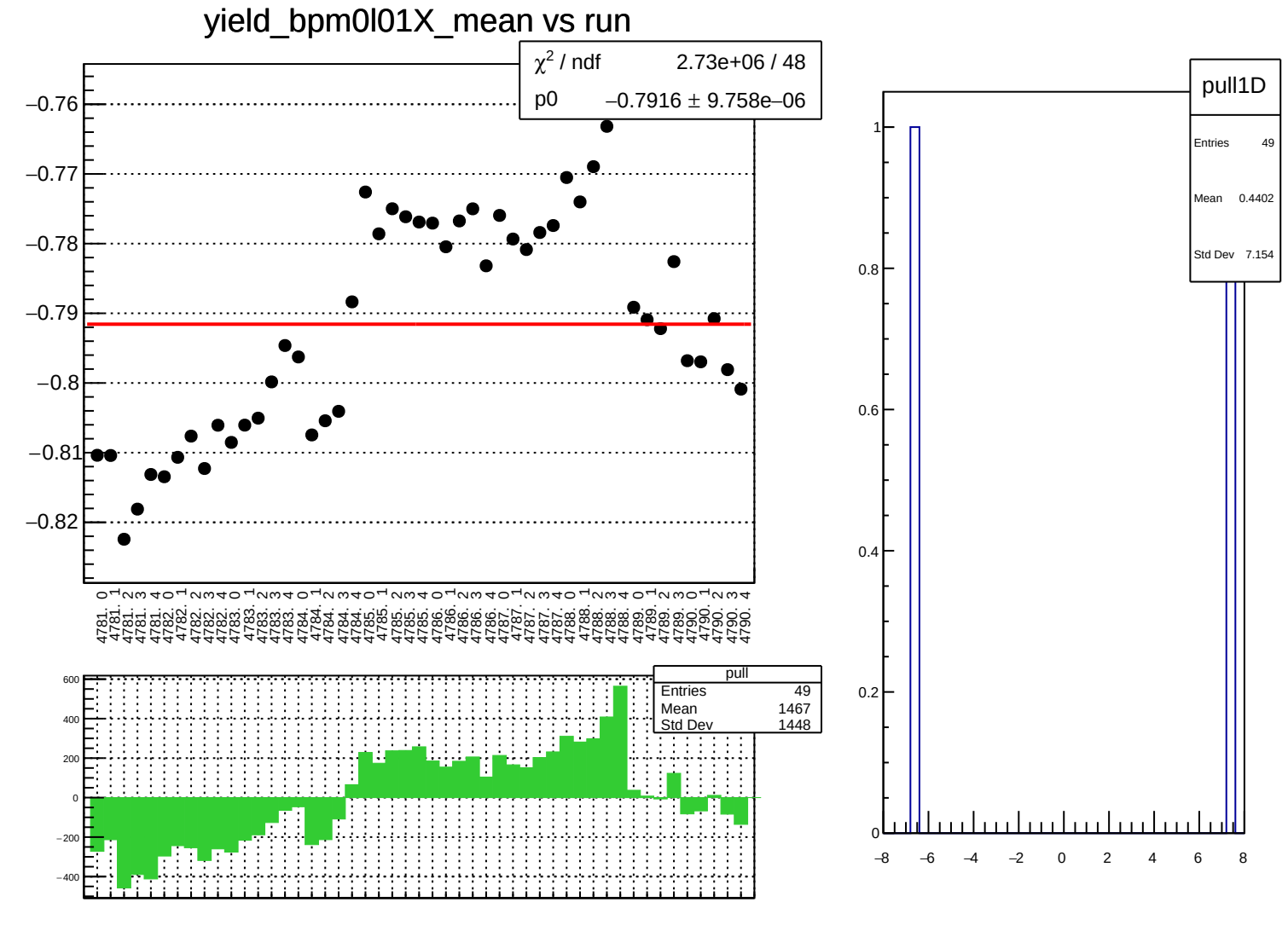

yield_bpm16X_mean vs run
χ² / ndf 2.489e+05 / 48
p0 −0.1374 ± 1.517e−05
−0.12
−0.13
−0.14
−0.15
−0.16
−0.17
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 161.7
Std Dev 138.1
150
100
50
0
−50
−100
−150
−200
−250
−300
pull1D
Entries 49
Mean 0.7502
Std Dev 3.623
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

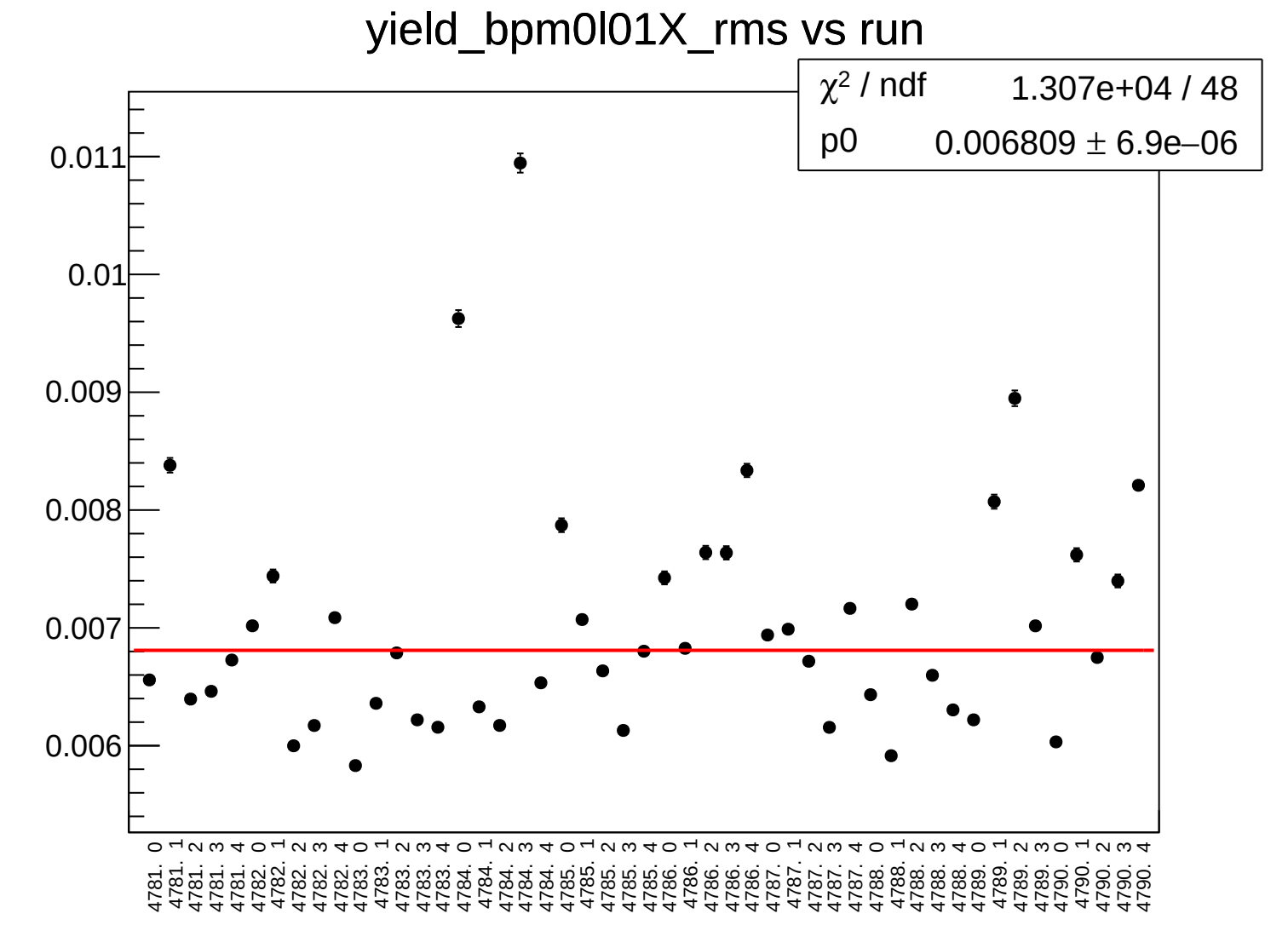

yield_bpm16X_rms vs run
χ² / ndf 6483 / 48
p0 0.01062 ± 1.073e−05
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

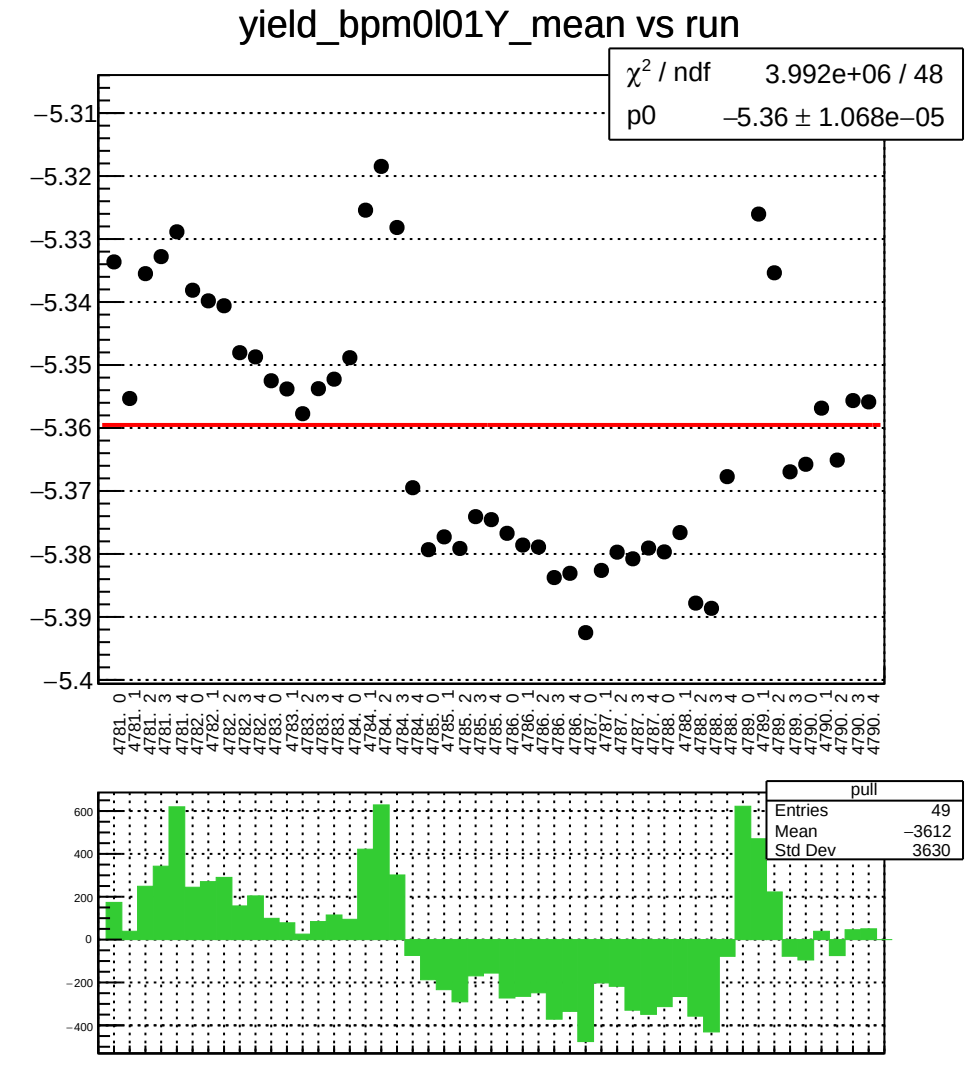

yield_bpm16Y_mean vs run
χ² / ndf 3.317e+05 / 48
p0 0.5196 ± 5.645e−06
0.532
0.53
0.528
0.526
0.524
0.522
0.52
0.518
0.516
0.514
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4798. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 1132
Std Dev 1101
250
200
150
100
50
0
−50
−100
−150

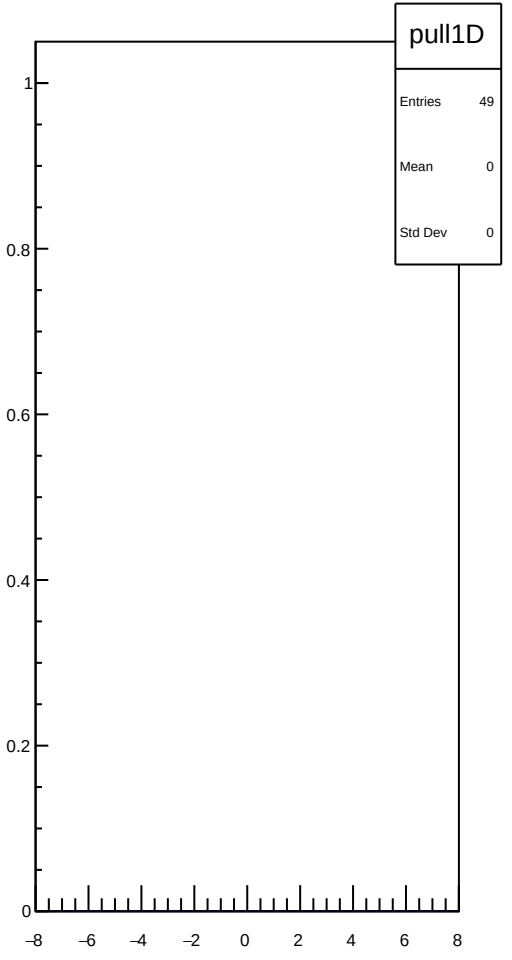

pull1D
Entries 49
Mean −7.915
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

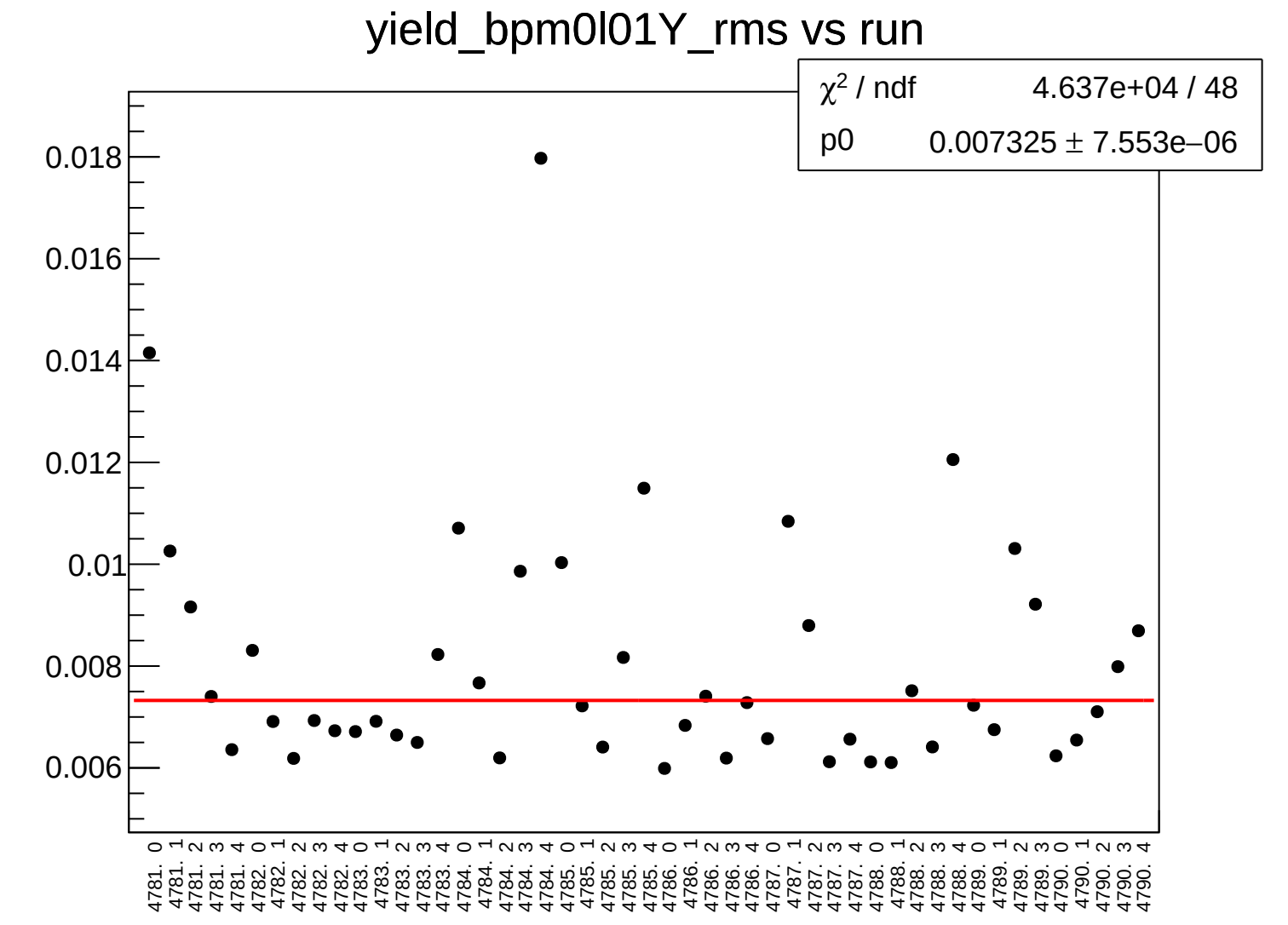

yield_bpm16Y_rms vs run
χ² / ndf 9698 / 48
p0 0.003946 ± 3.991e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

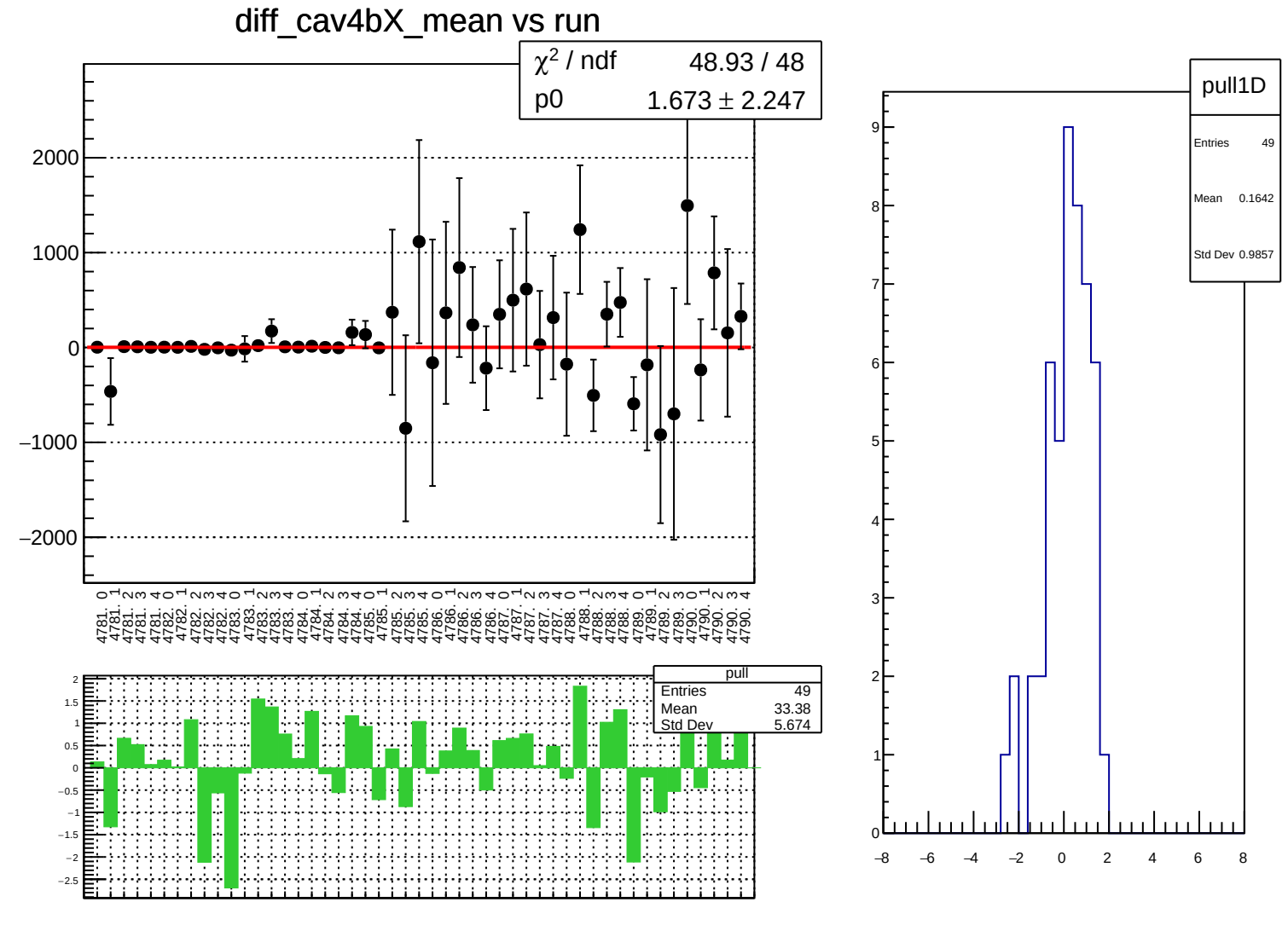

yield_bpm0l01X_mean vs run
χ² / ndf 2.73e+06 / 48
p0 −0.7916 ± 9.758e−06
−0.76
−0.77
−0.78
−0.79
−0.8
−0.81
−0.82
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 1467
Std Dev 1448
600
400
200
0
−200
−400
pull1D
Entries 49
Mean 0.4402
Std Dev 7.154
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

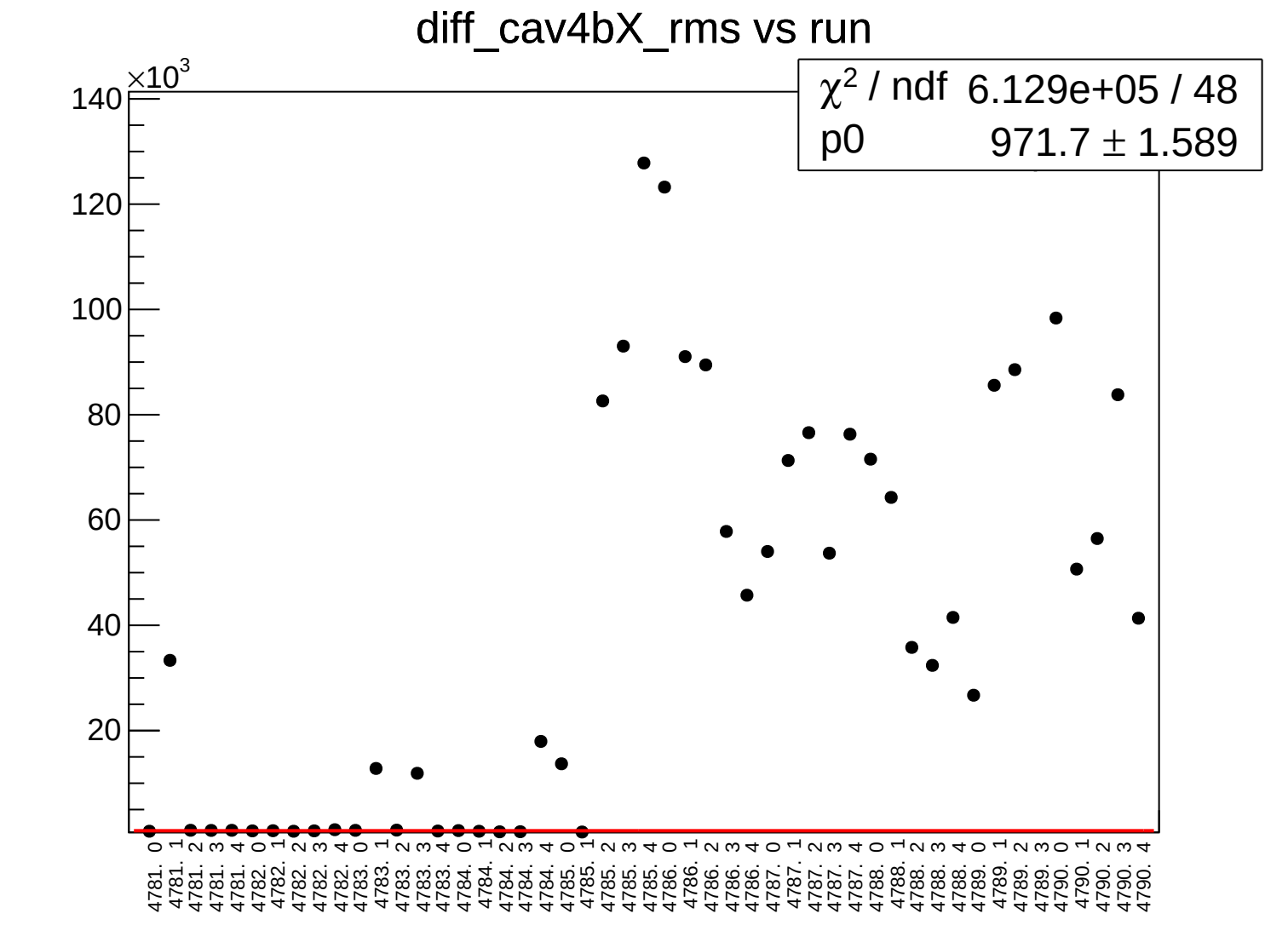

yield_bpm0l01X_rms vs run
χ² / ndf 1.307e+04 / 48
p0 0.006809 ± 6.9e−06
0.011
0.01
0.009
0.008
0.007
0.006
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

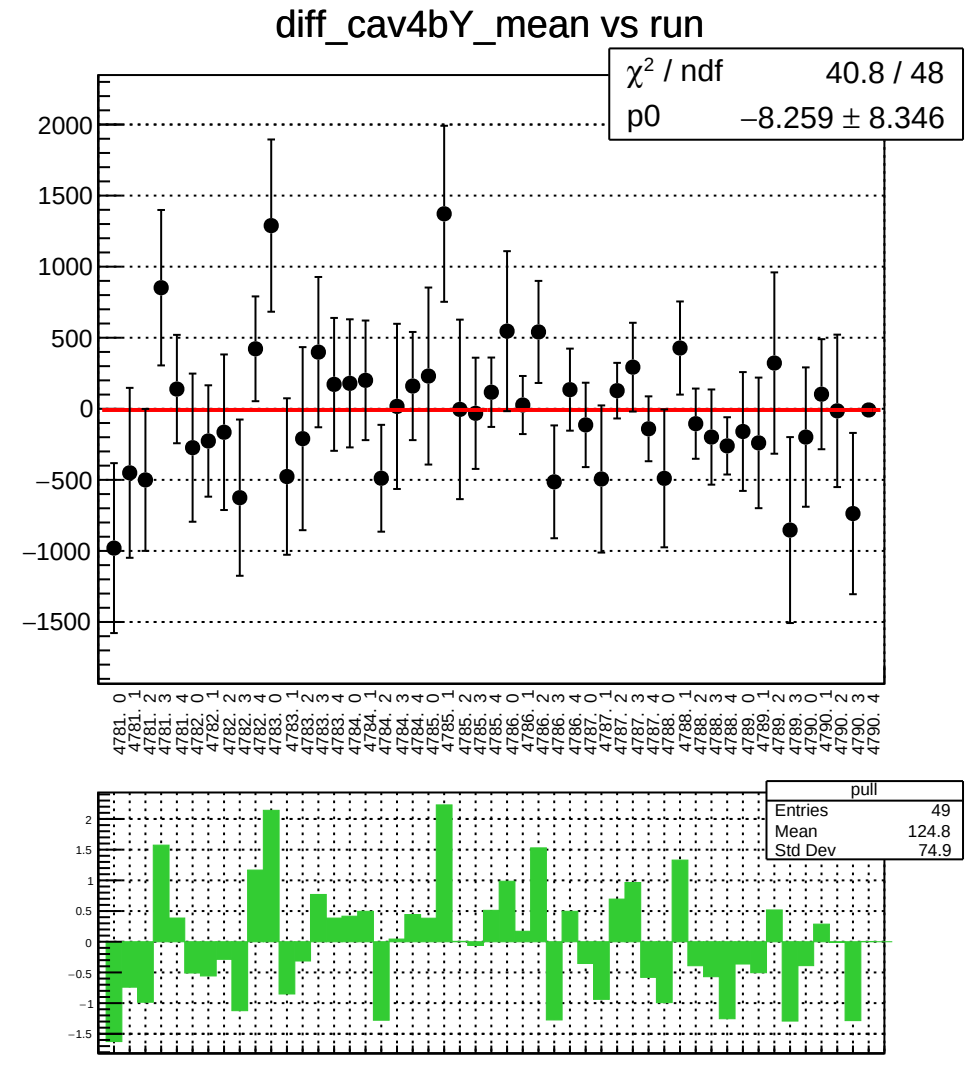

yield_bpm0l01Y_mean vs run
χ² / ndf 3.992e+06 / 48
p0 −5.36 ± 1.068e−05
−5.31
−5.32
−5.33
−5.34
−5.35
−5.36
−5.37
−5.38
−5.39
−5.4
pull
Entries 49
Mean −3612
Std Dev 3630
600
400
200
0
−200
−400

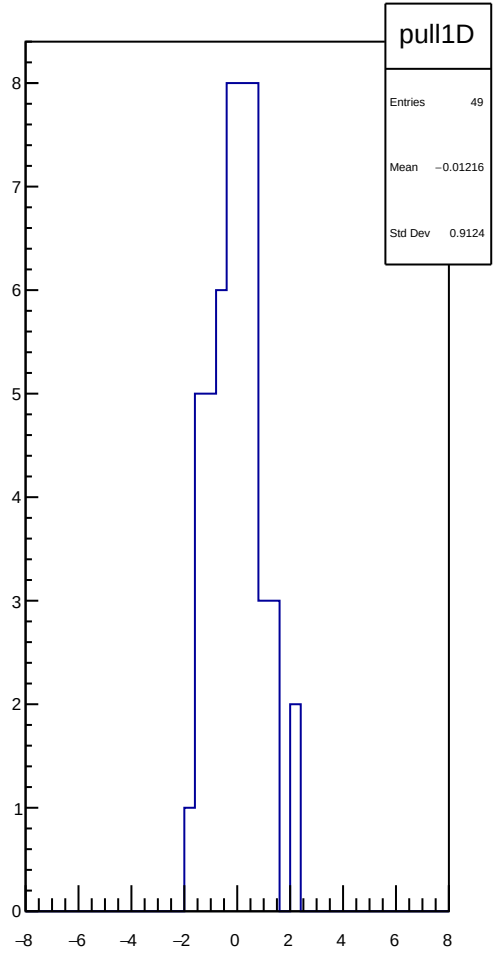

pull1D
Entries 49
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

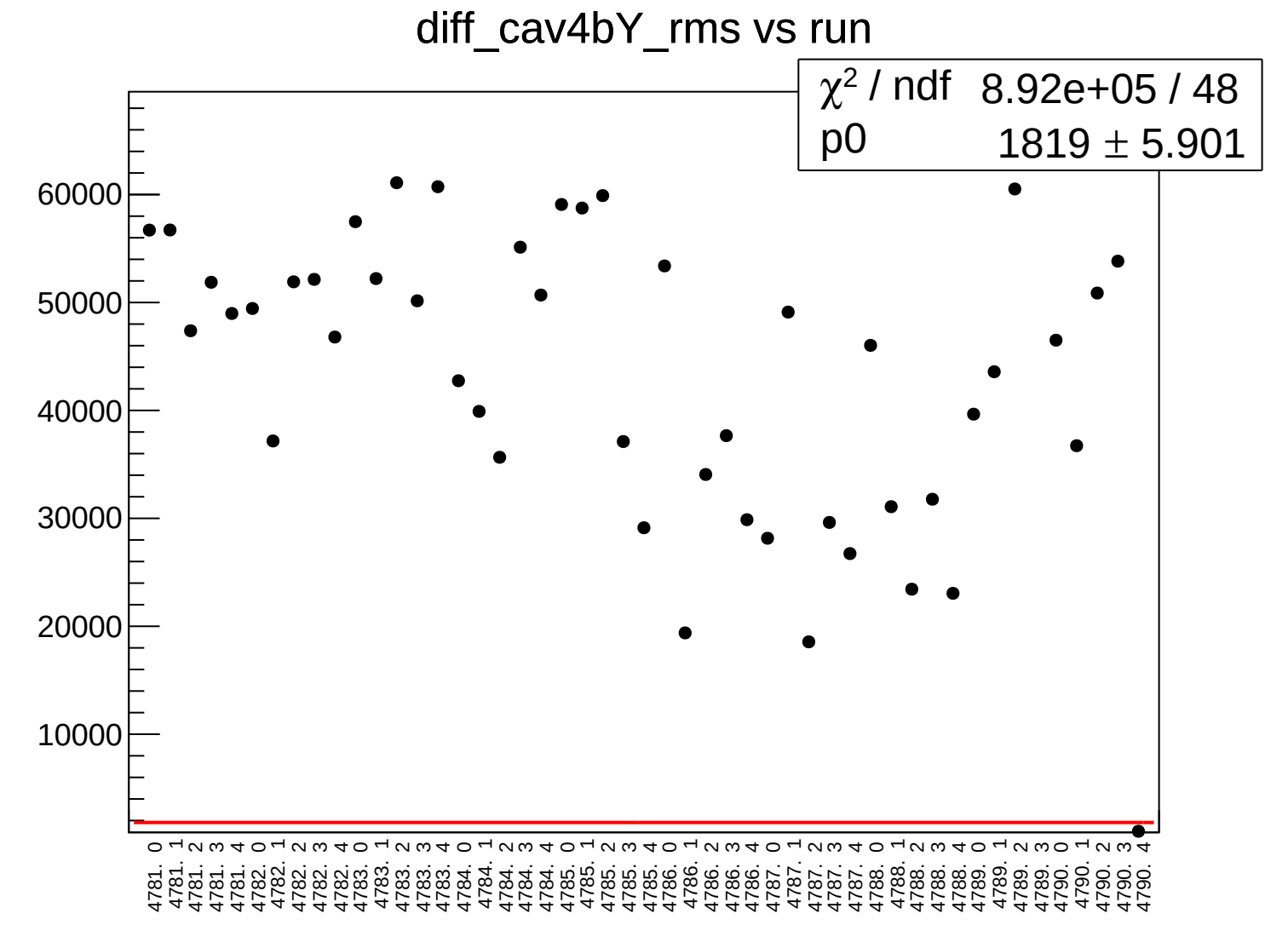

yield_bpm0l01Y_rms vs run
χ² / ndf 4.637e+04 / 48
p0 0.007325 ± 7.553e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

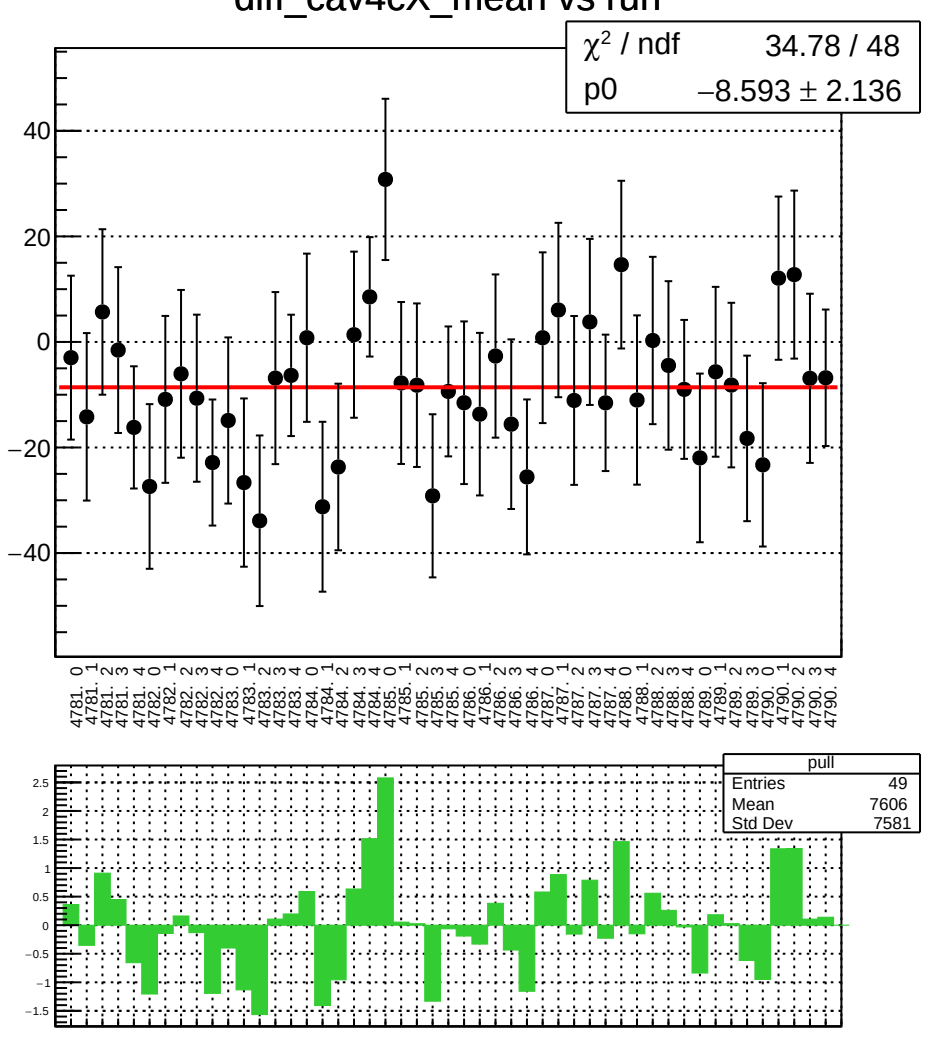

diff_cav4bX_mean vs run
χ² / ndf 48.93 / 48
p0 1.673 ± 2.247
2000
1000
0
−1000
−2000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 33.38
Std Dev 5.674
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 49
Mean 0.1642
Std Dev 0.9857
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

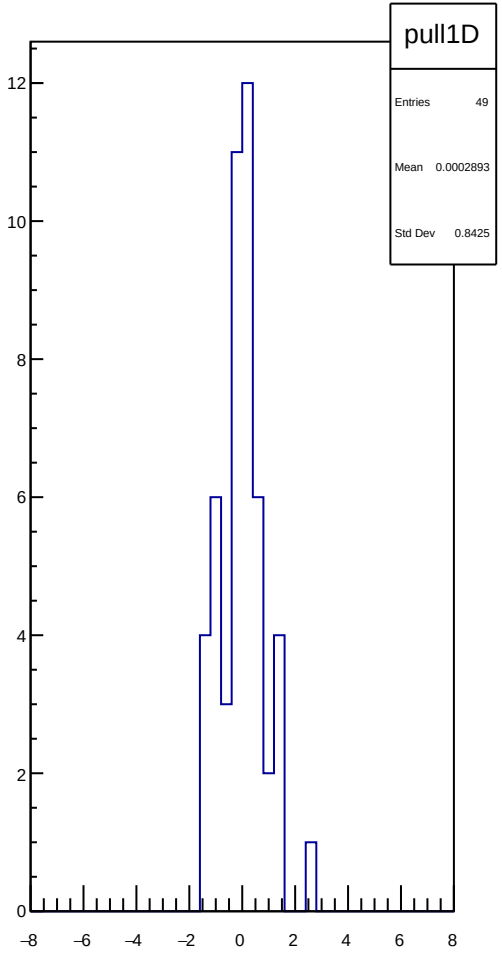

diff_cav4bX_rms vs run
×10^3
140
120
100
80
60
40
20
χ² / ndf 6.129e+05 / 48
p0 971.7 ± 1.589
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

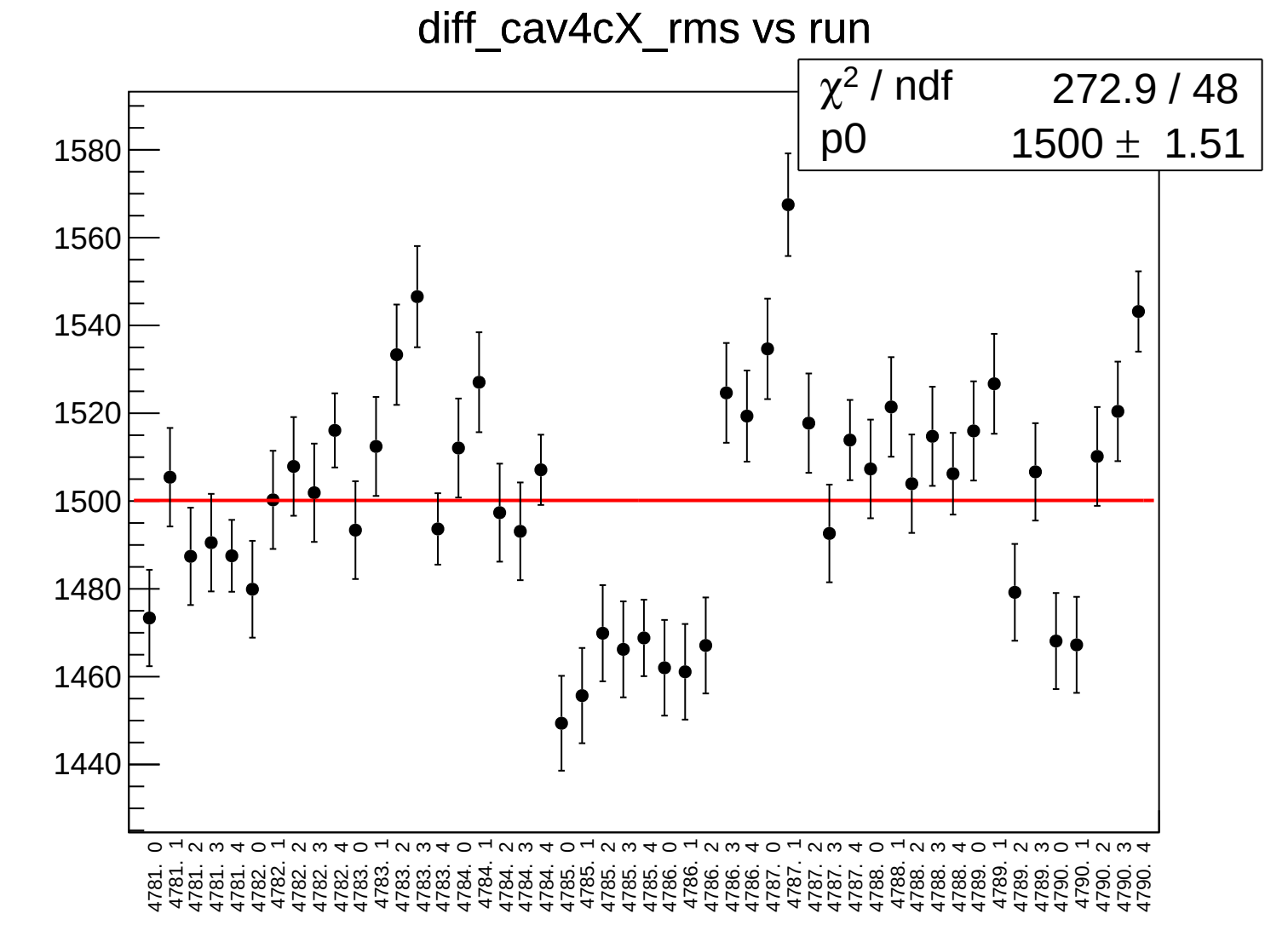

diff_cav4bY_mean vs run
χ² / ndf 40.8 / 48
p0 −8.259 ± 8.346
2000
1500
1000
500
0
−500
−1000
−1500
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 124.8
Std Dev 74.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

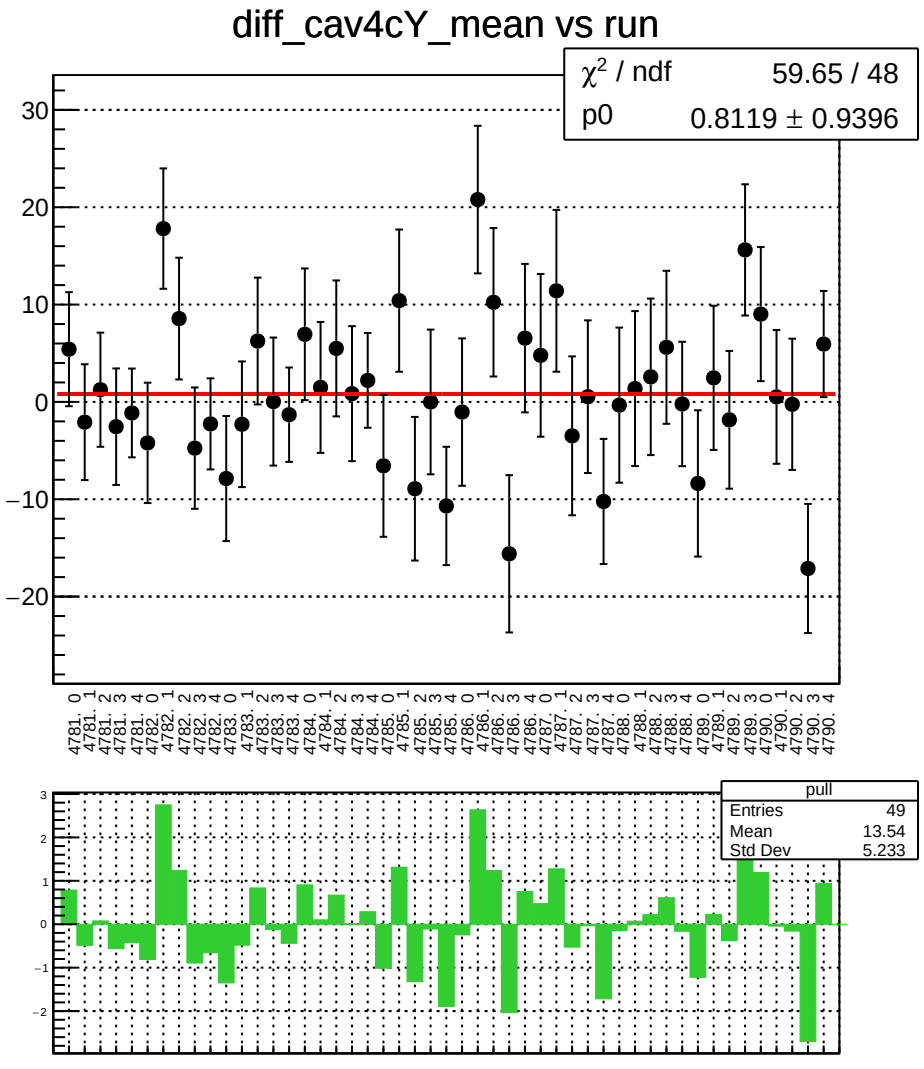

pull1D
Entries 49
Mean −0.01216
Std Dev 0.9124
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

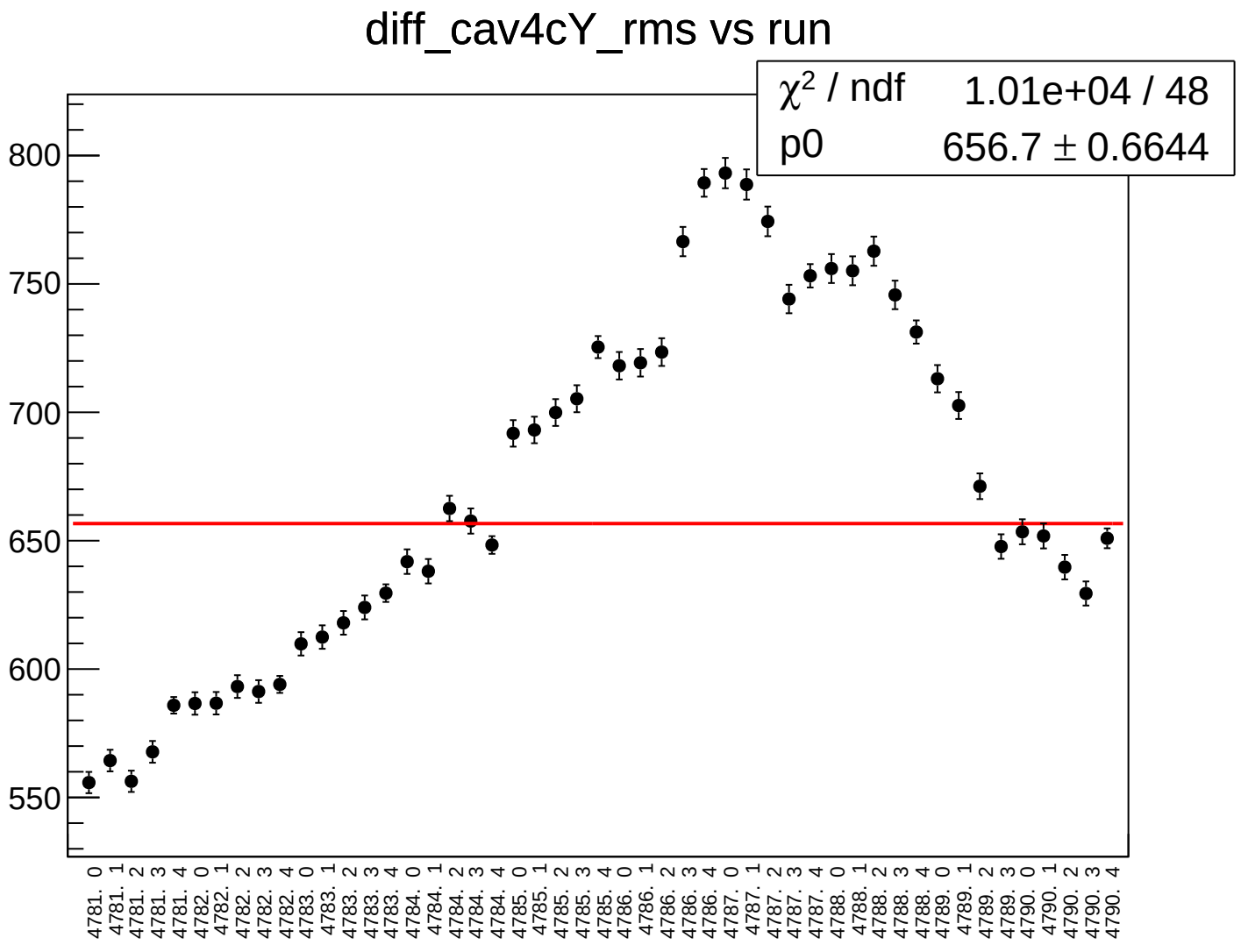

diff_cav4bY_rms vs run
χ² / ndf 8.92e+05 / 48
p0 1819 ± 5.901
60000
50000
40000
30000
20000
10000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

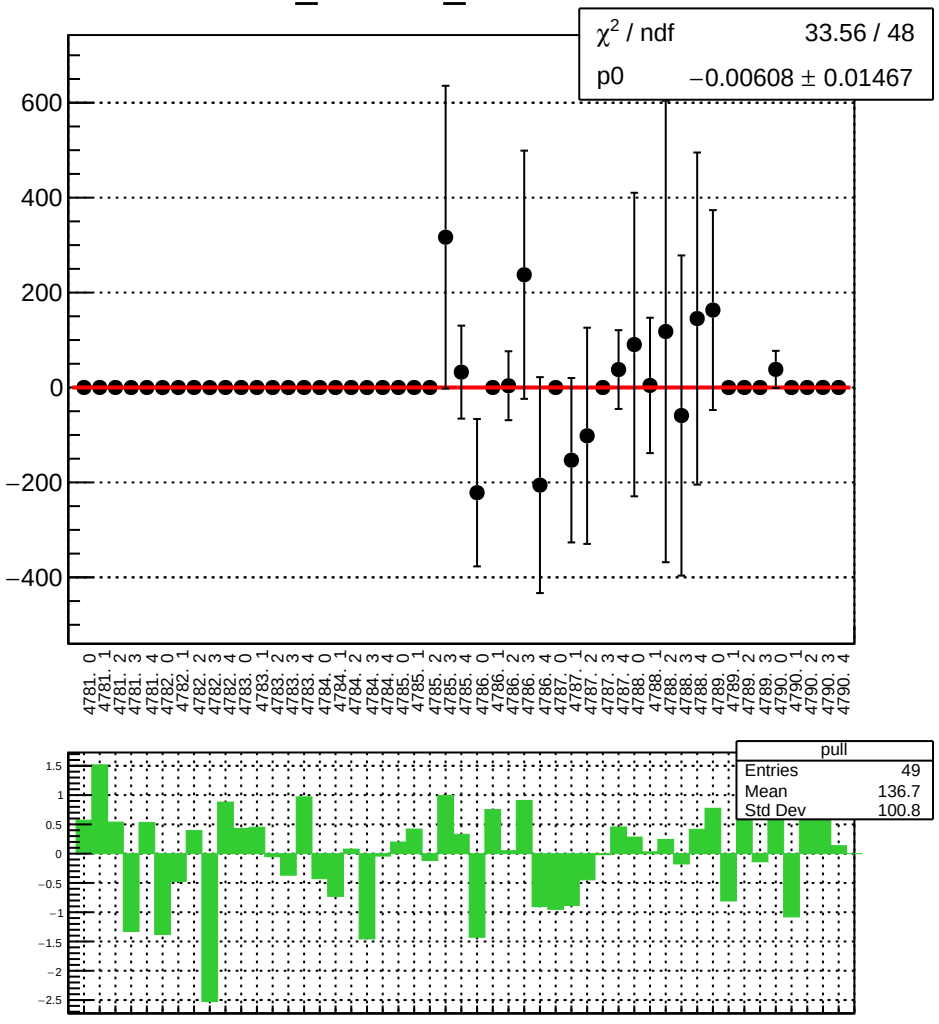

diff_cav4cX_mean vs run
χ² / ndf 34.78 / 48
p0 −8.593 ± 2.136
pull
Entries 49
Mean 7606
Std Dev 7581

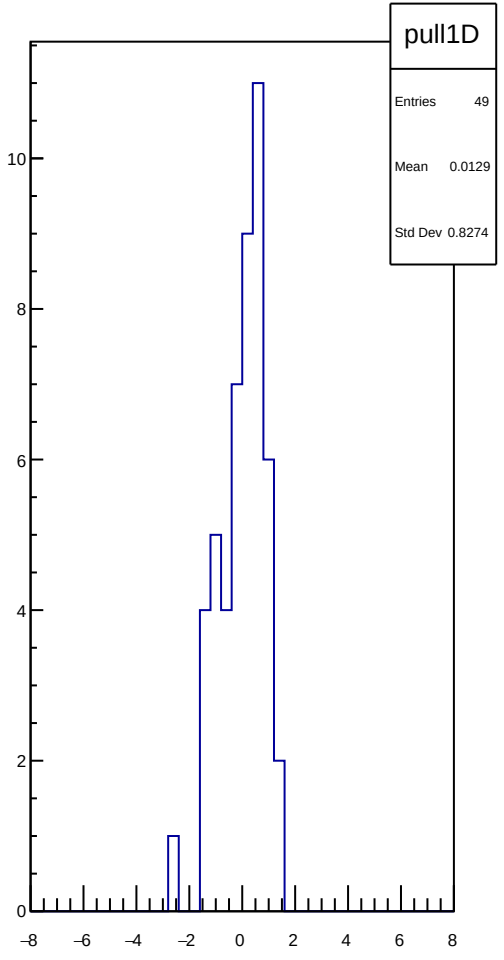

pull1D
Entries 49
Mean 0.0002893
Std Dev 0.8425

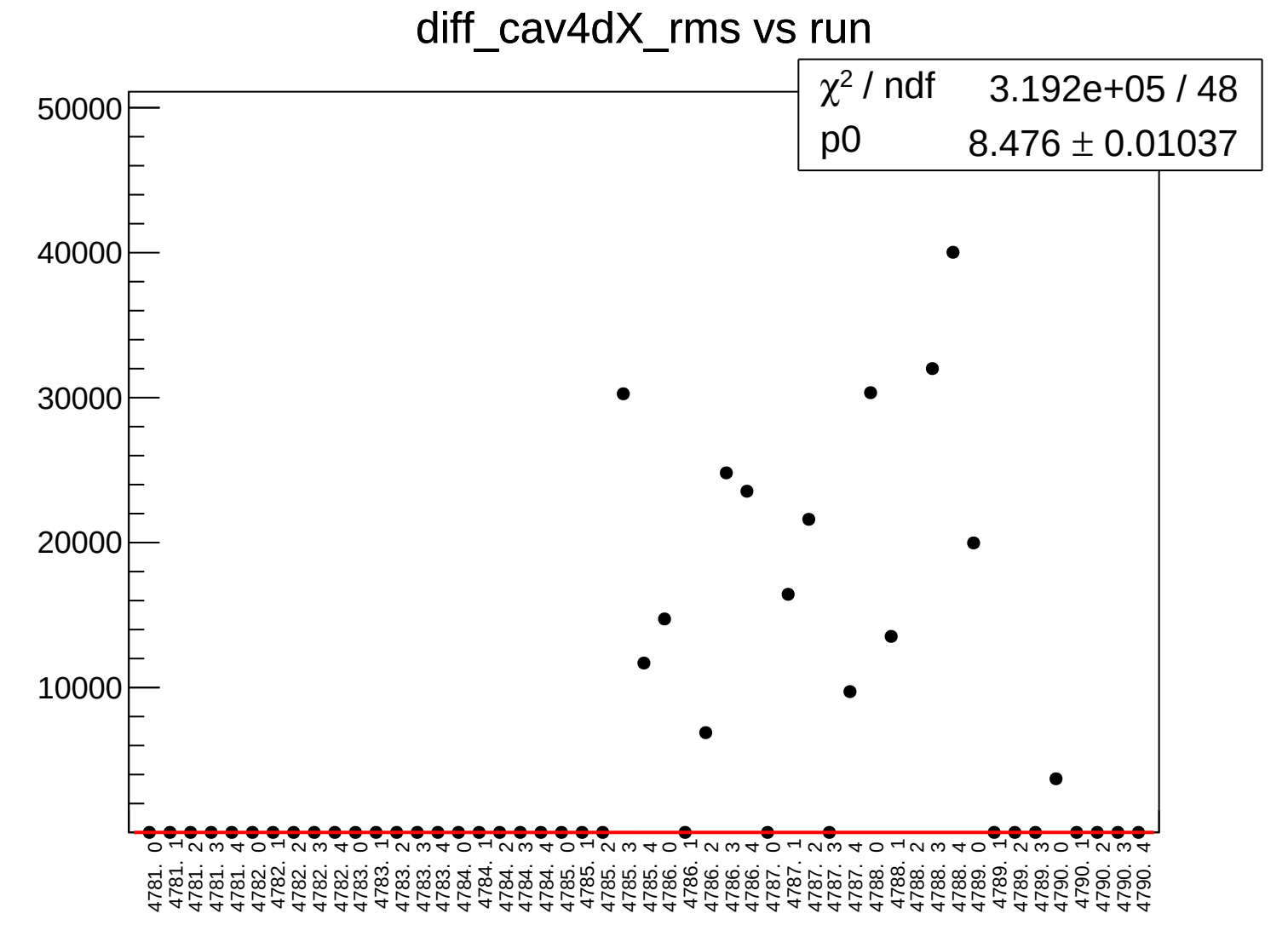

diff_cav4cX_rms vs run
χ² / ndf 272.9 / 48
p0 1500 ± 1.51
1580
1560
1540
1520
1500
1480
1460
1440
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

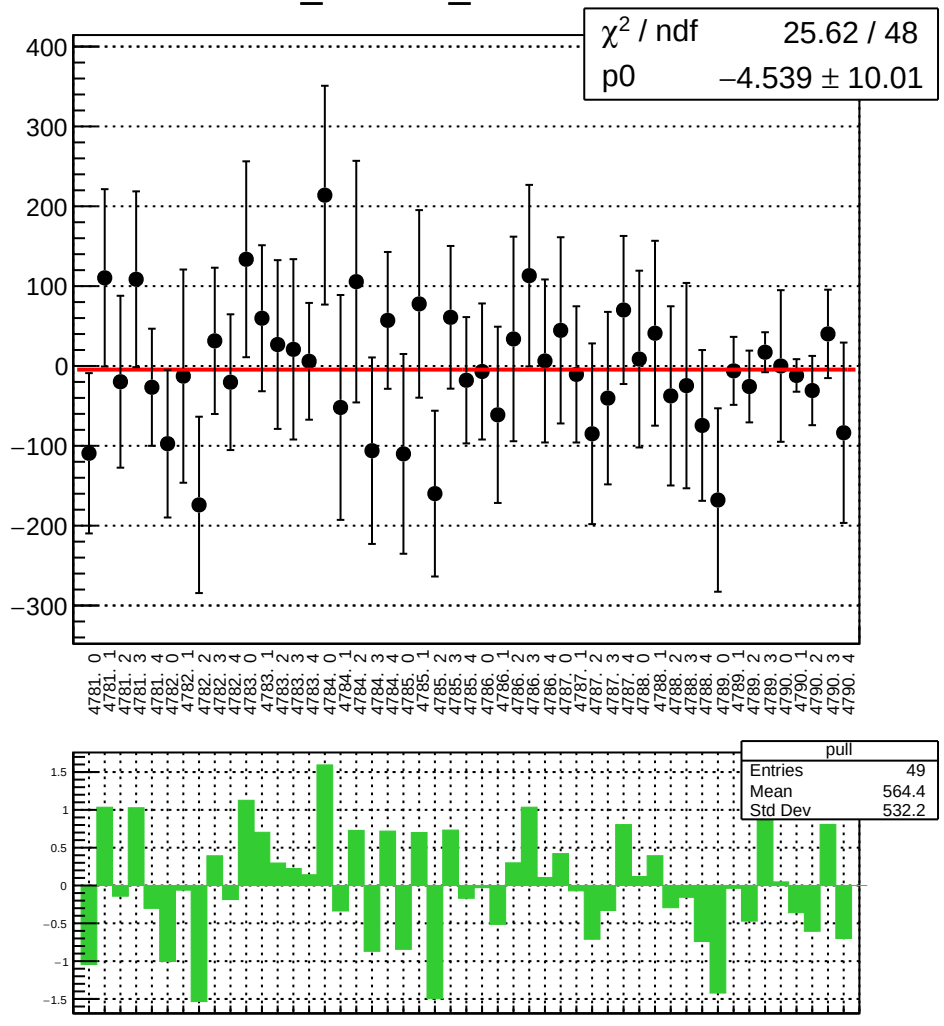

diff_cav4cY_mean vs run
χ^2 / ndf 59.65 / 48
p0 0.8119 ± 0.9396
30
20
10
0
−10
−20
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 13.54
Std Dev 5.233
3
2
1
0
−1
−2
pull1D
Entries 49
Mean 0.01792
Std Dev 1.103
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

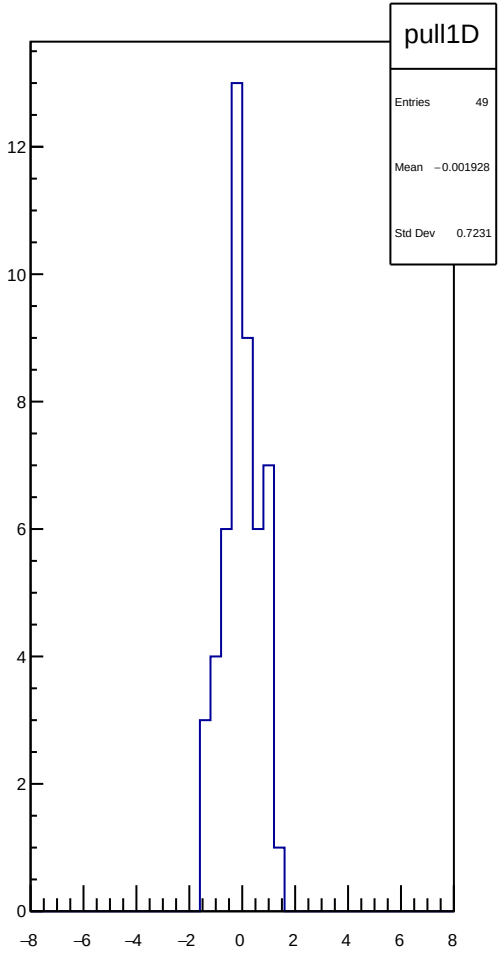

diff_cav4cY_rms vs run
χ² / ndf 1.01e+04 / 48
p0 656.7 ± 0.6644
800
750
700
650
600
550
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

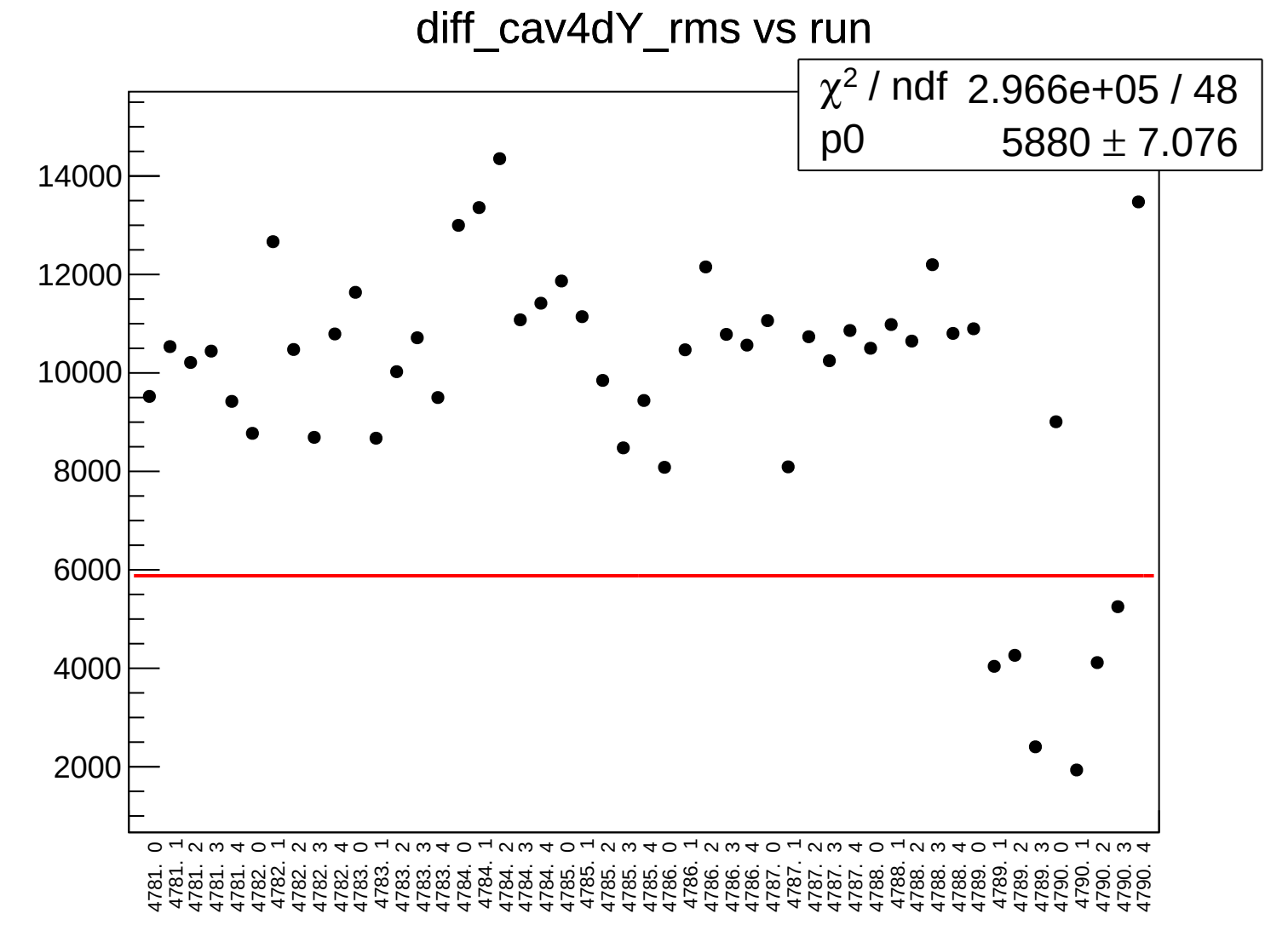

diff_cav4dX_mean vs run
χ² / ndf 33.56 / 48
p0 −0.00608 ± 0.01467
pull
Entries 49
Mean 136.7
Std Dev 100.8

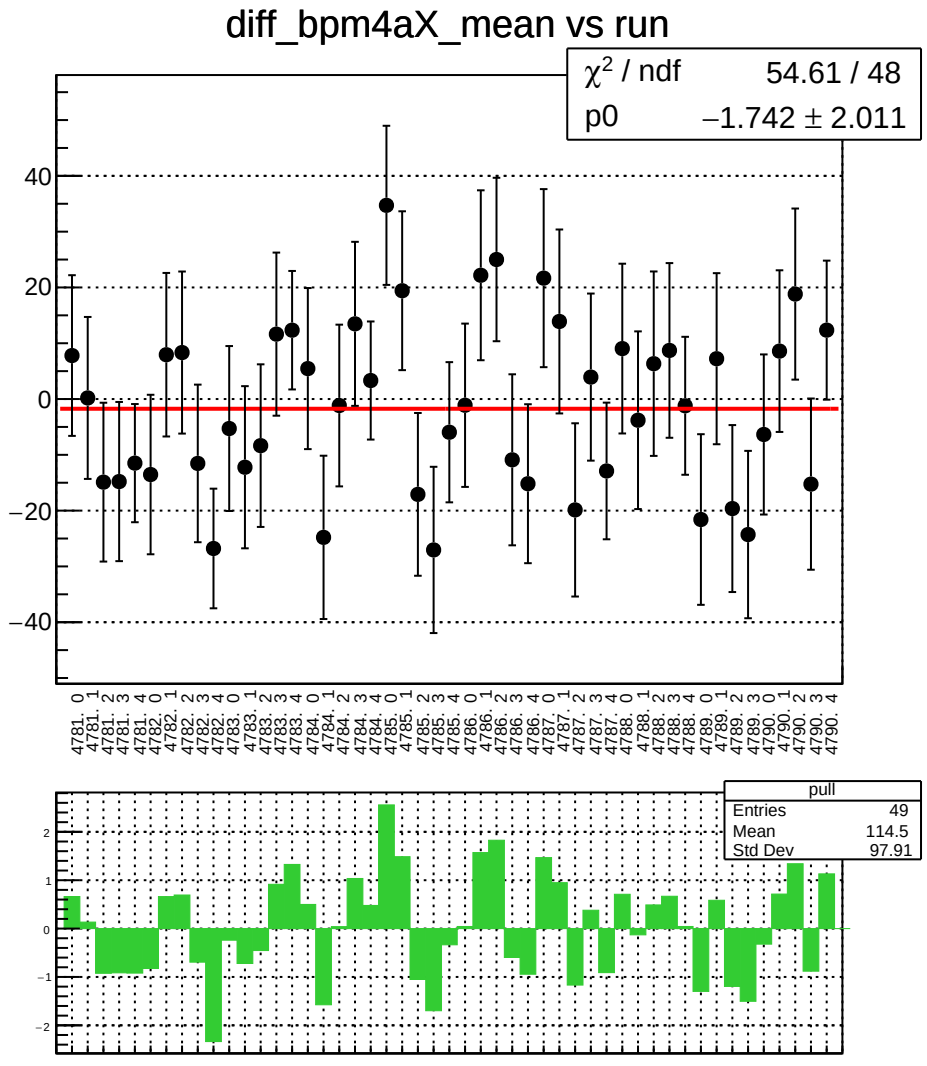

pull1D
Entries 49
Mean 0.0129
Std Dev 0.8274

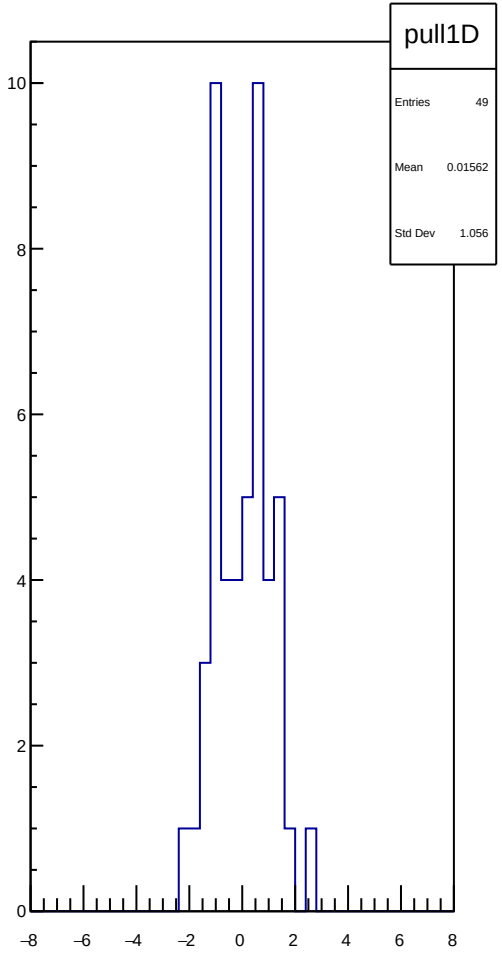

diff_cav4dX_rms vs run
χ² / ndf 3.192e+05 / 48
p0 8.476 ± 0.01037
50000
40000
30000
20000
10000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

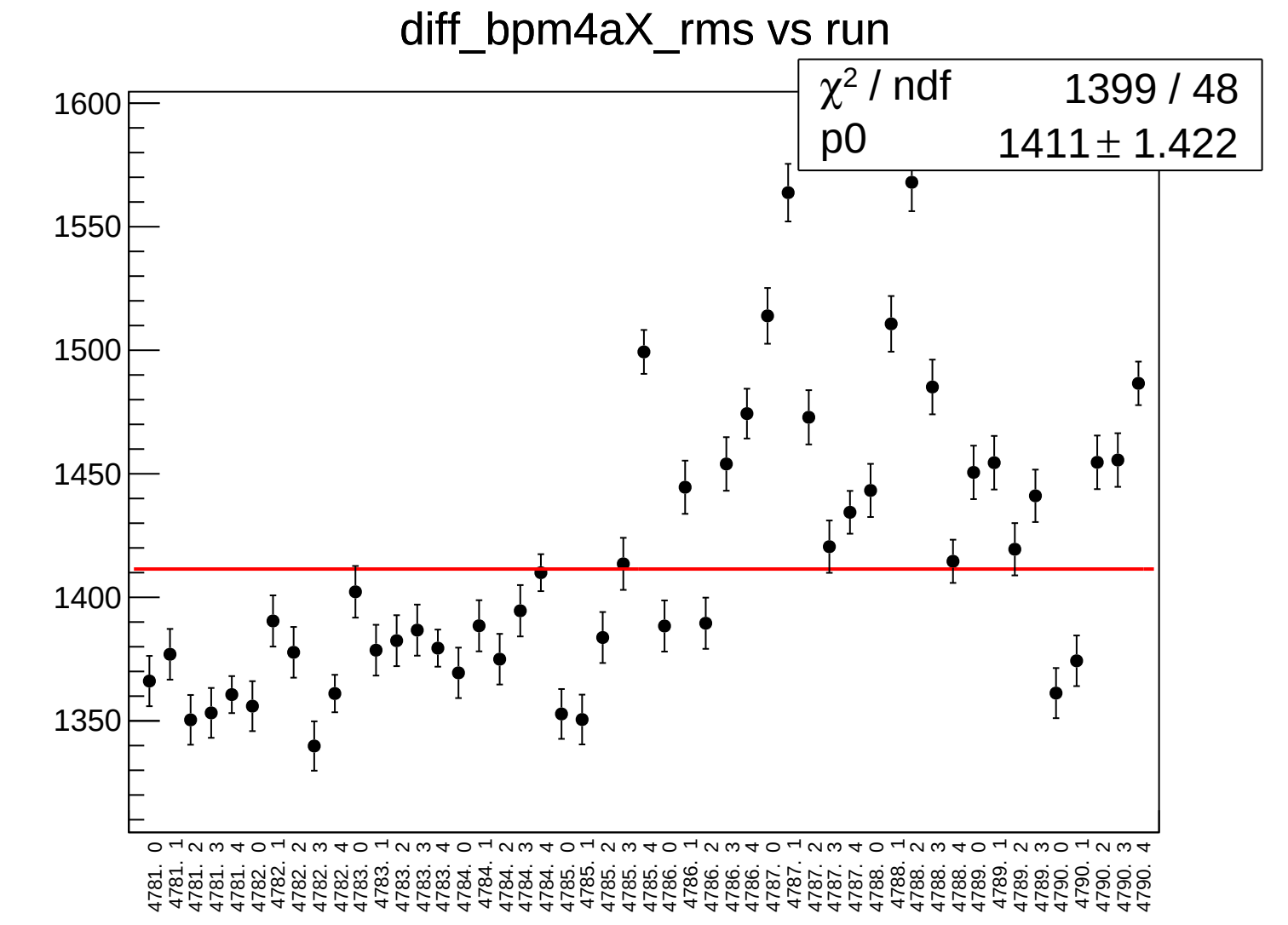

diff_cav4dY_mean vs run
χ² / ndf 25.62 / 48
p0 −4.539 ± 10.01
pull
Entries 49
Mean 564.4
Std Dev 532.2

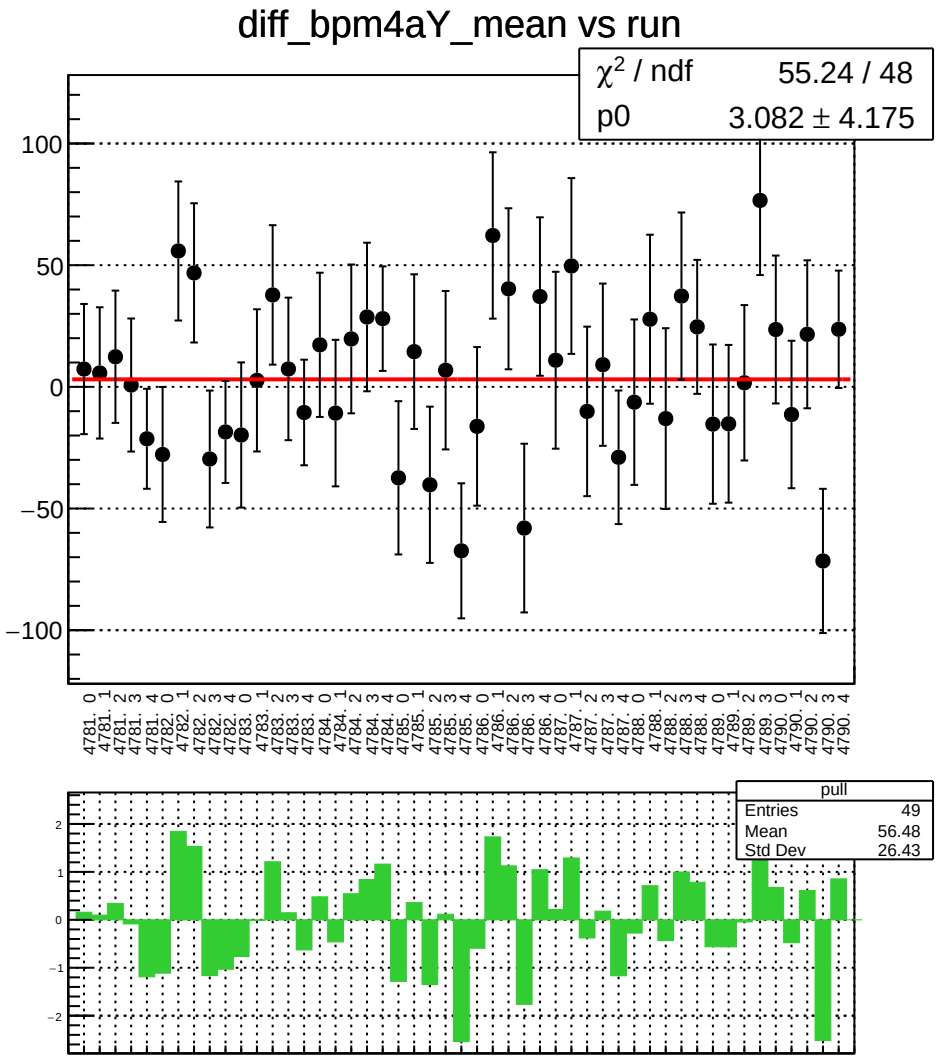

pull1D
Entries 49
Mean −0.001928
Std Dev 0.7231

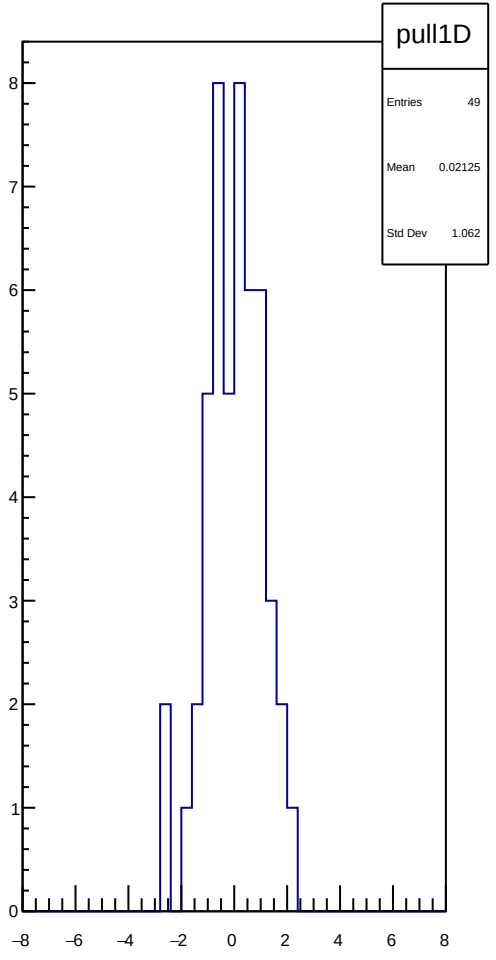

diff_cav4dY_rms vs run
χ² / ndf 2.966e+05 / 48
p0 5880 ± 7.076
14000
12000
10000
8000
6000
4000
2000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

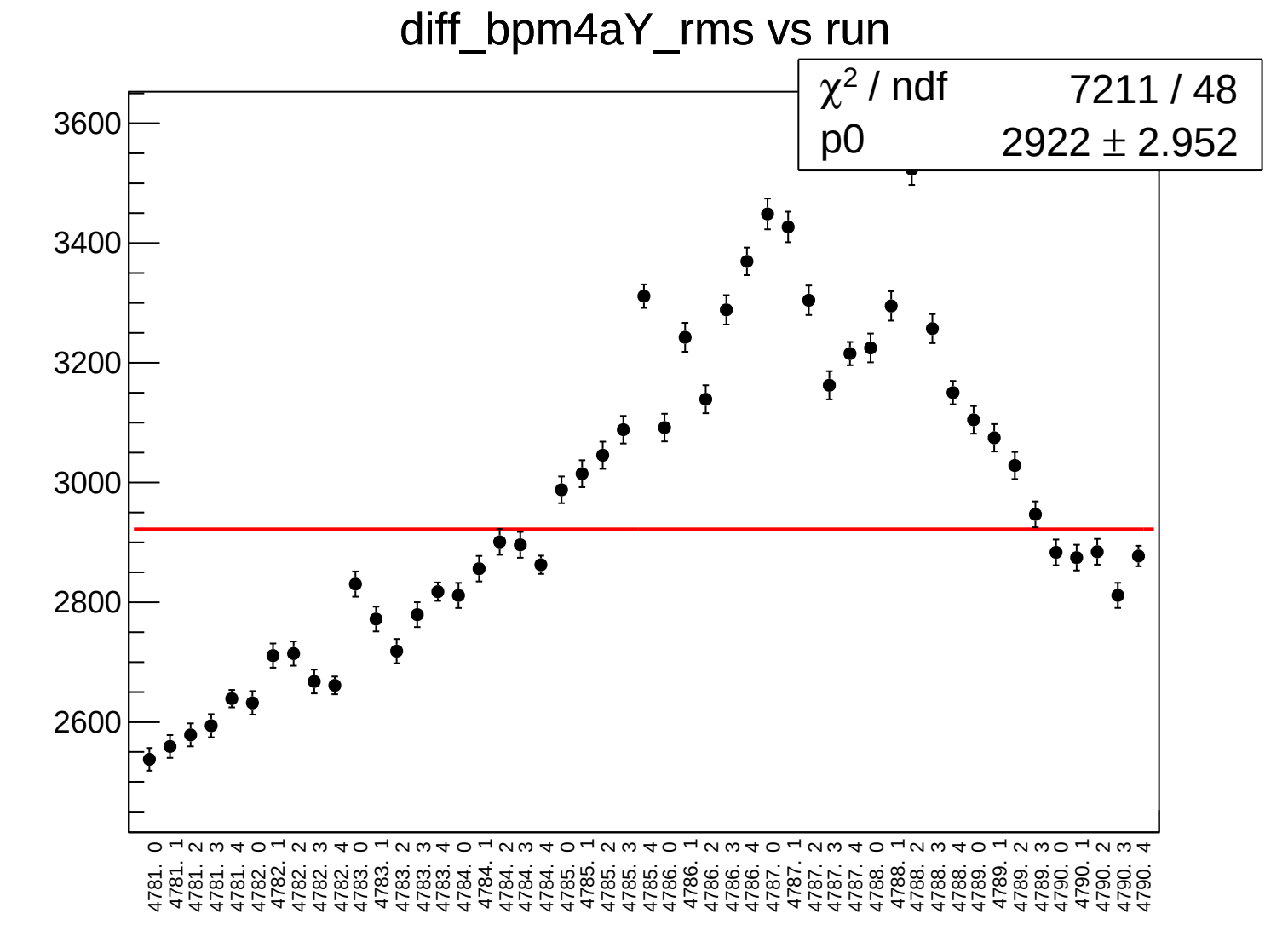

diff_bpm4aX_mean vs run
χ² / ndf 54.61 / 48
p0 −1.742 ± 2.011
40
20
0
−20
−40
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 114.5
Std Dev 97.91
2
1
0
−1
−2

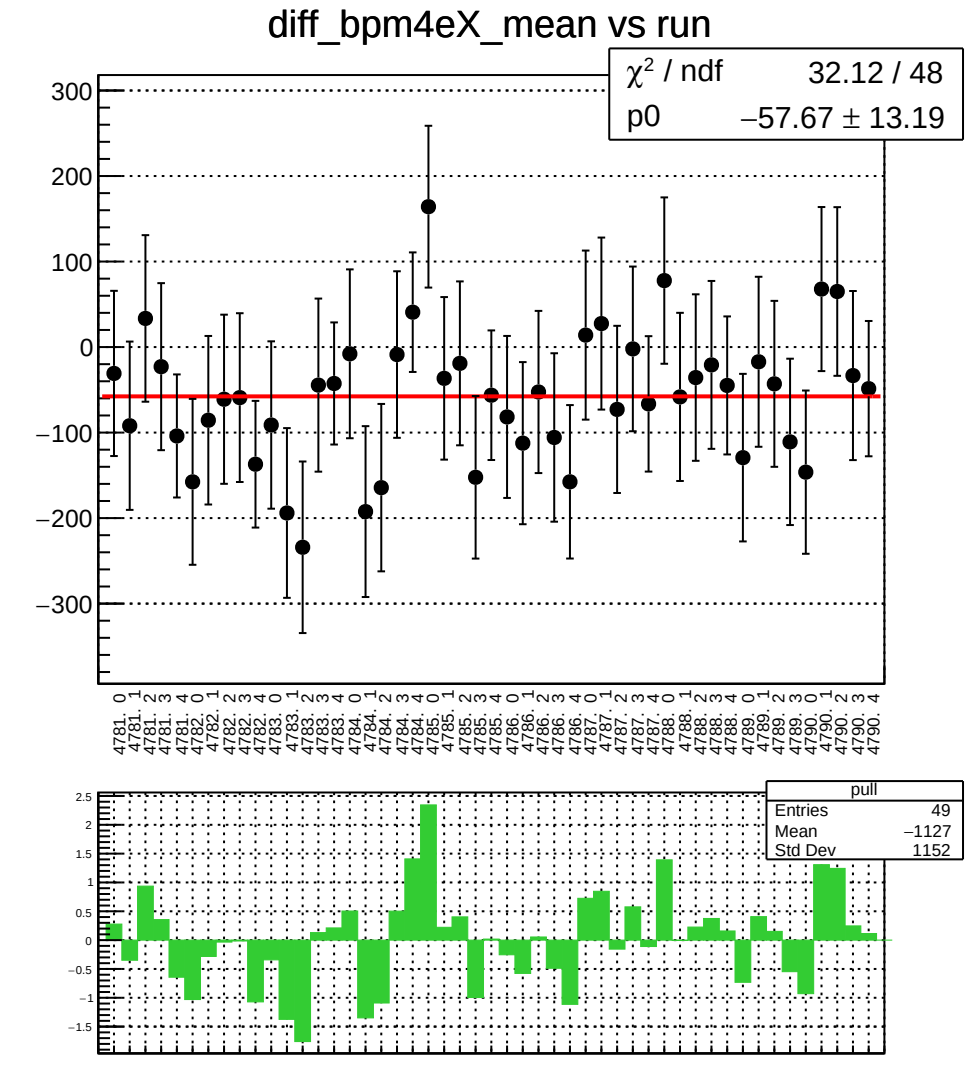

pull1D
Entries 49
Mean 0.01562
Std Dev 1.056
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

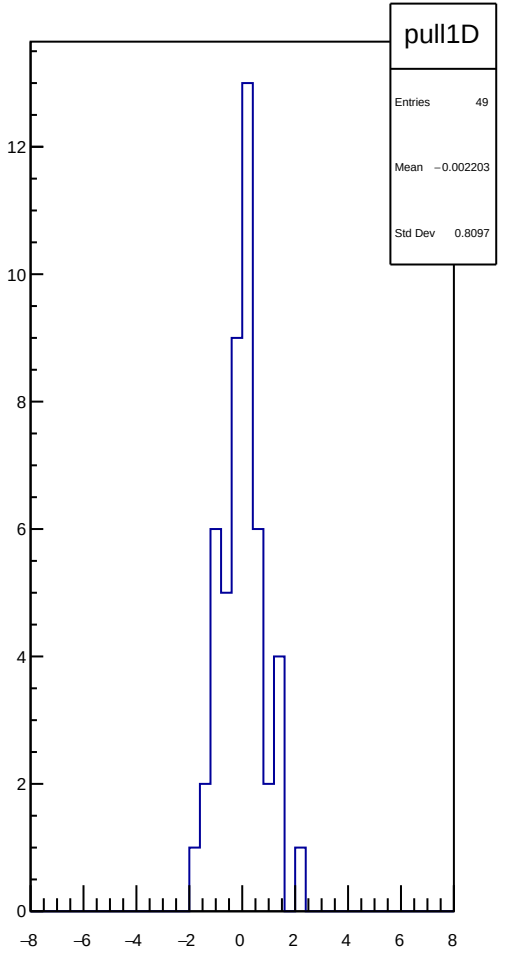

diff_bpm4aX_rms vs run
χ² / ndf 1399 / 48
p0 1411 ± 1.422
1600
1550
1500
1450
1400
1350
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

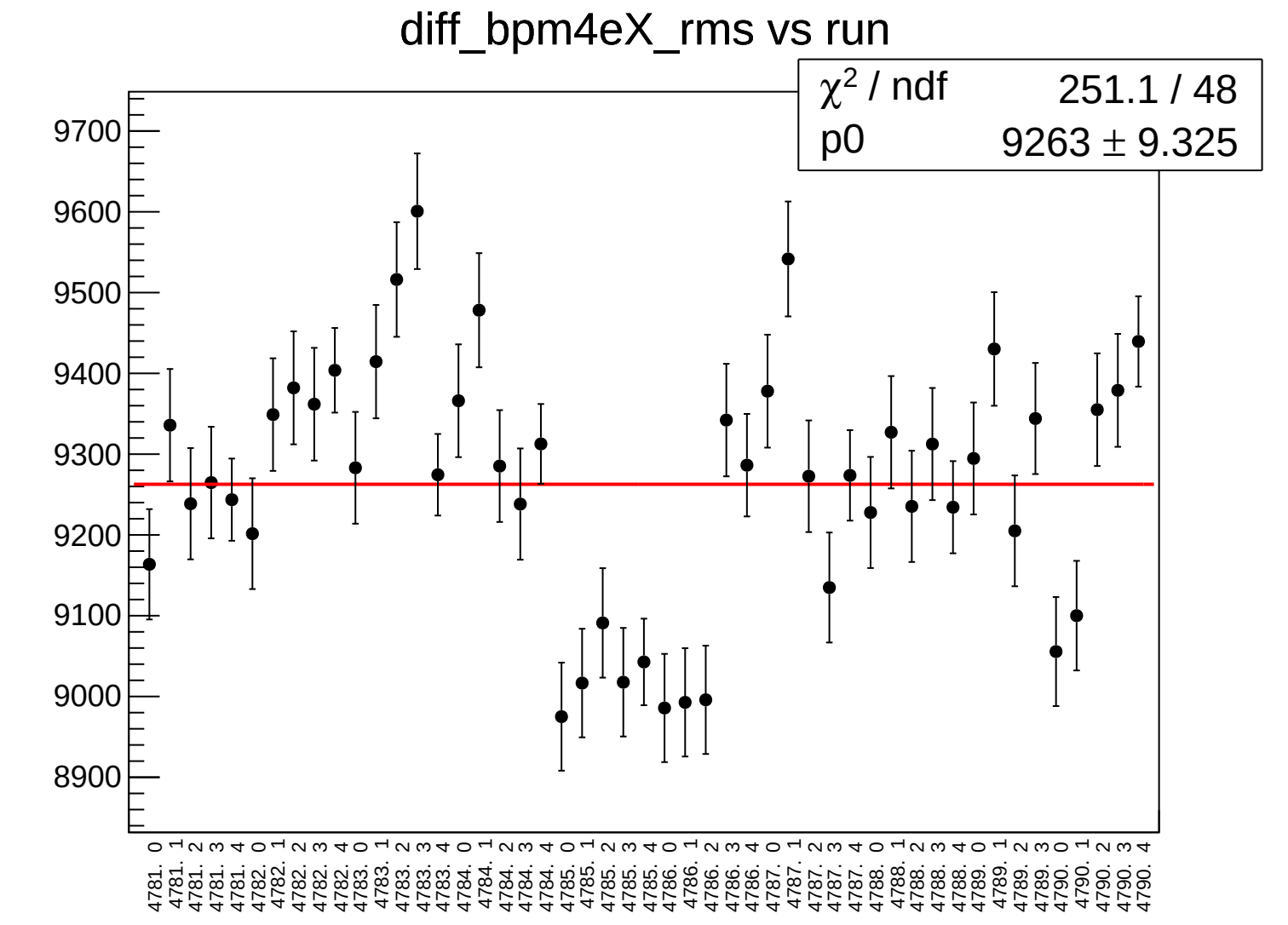

diff_bpm4aY_mean vs run
χ² / ndf 55.24 / 48
p0 3.082 ± 4.175
100
50
0
−50
−100
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 56.48
Std Dev 26.43
2
1
0
−1
−2

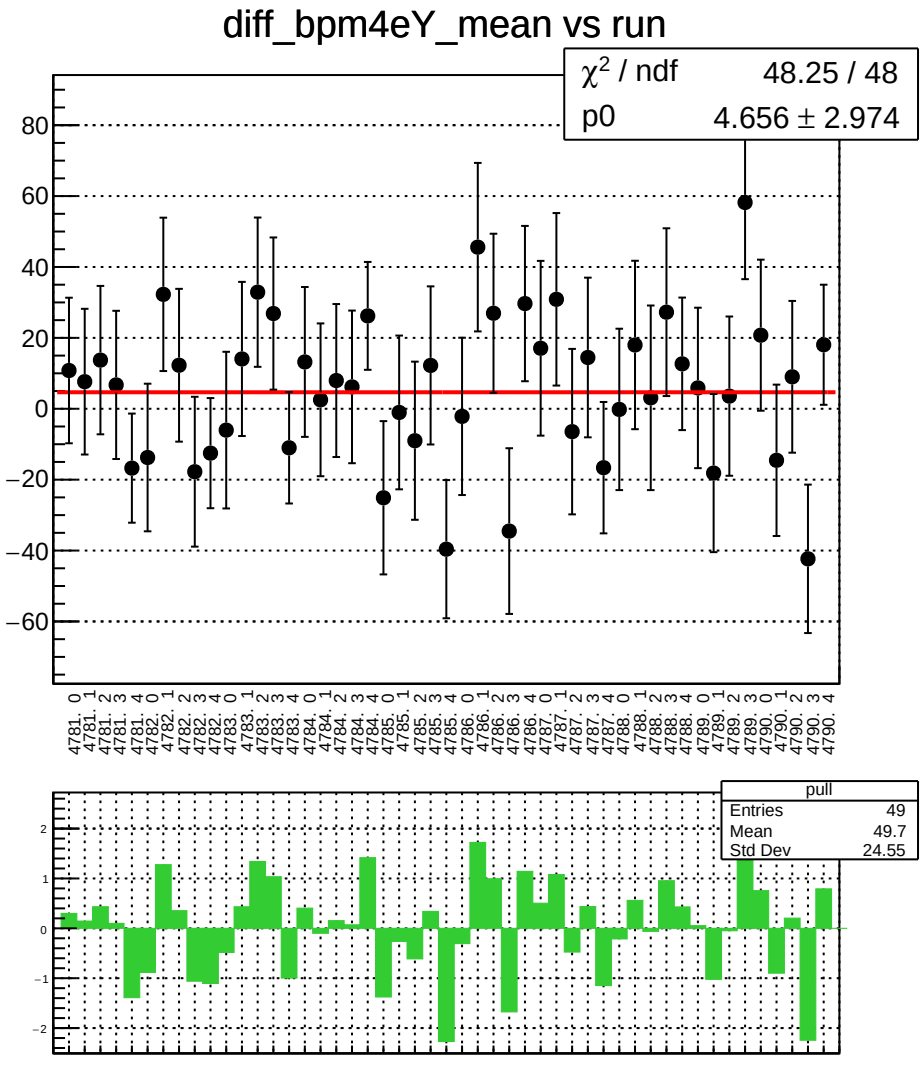

pull1D
Entries 49
Mean 0.02125
Std Dev 1.062
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

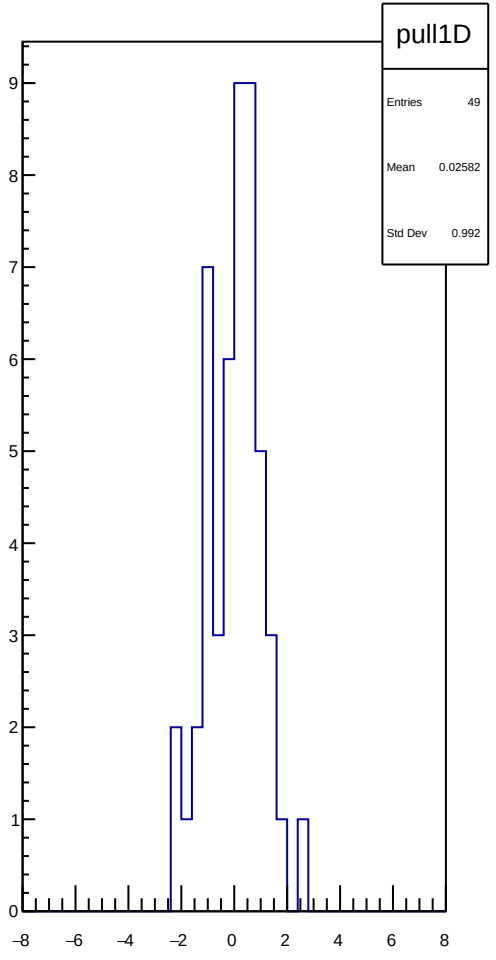

diff_bpm4aY_rms vs run
χ² / ndf 7211 / 48
p0 2922 ± 2.952
3600
3400
3200
3000
2800
2600
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

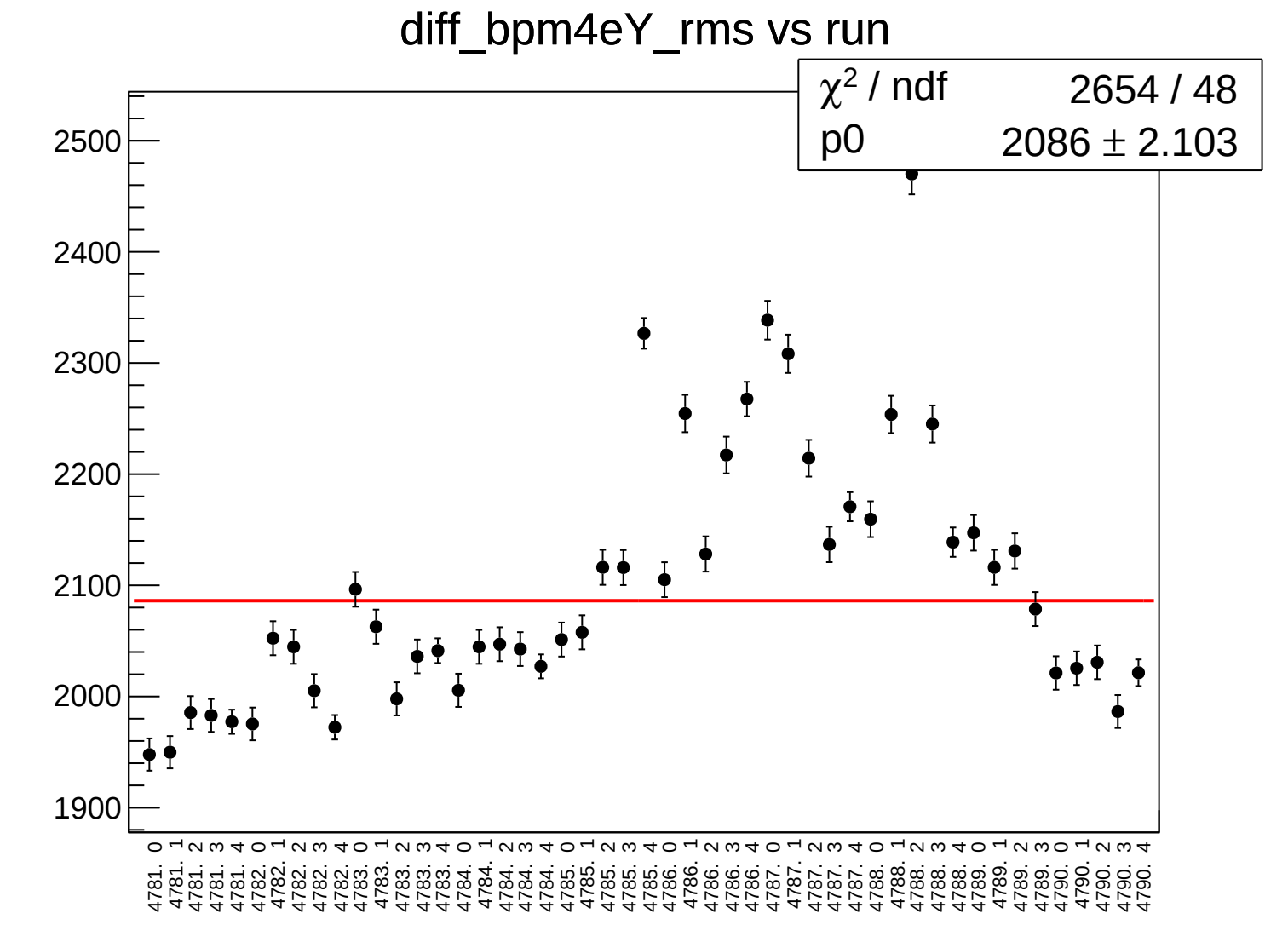

diff_bpm4eX_mean vs run
χ² / ndf 32.12 / 48
p0 −57.67 ± 13.19
pull
Entries 49
Mean −1127
Std Dev 1152

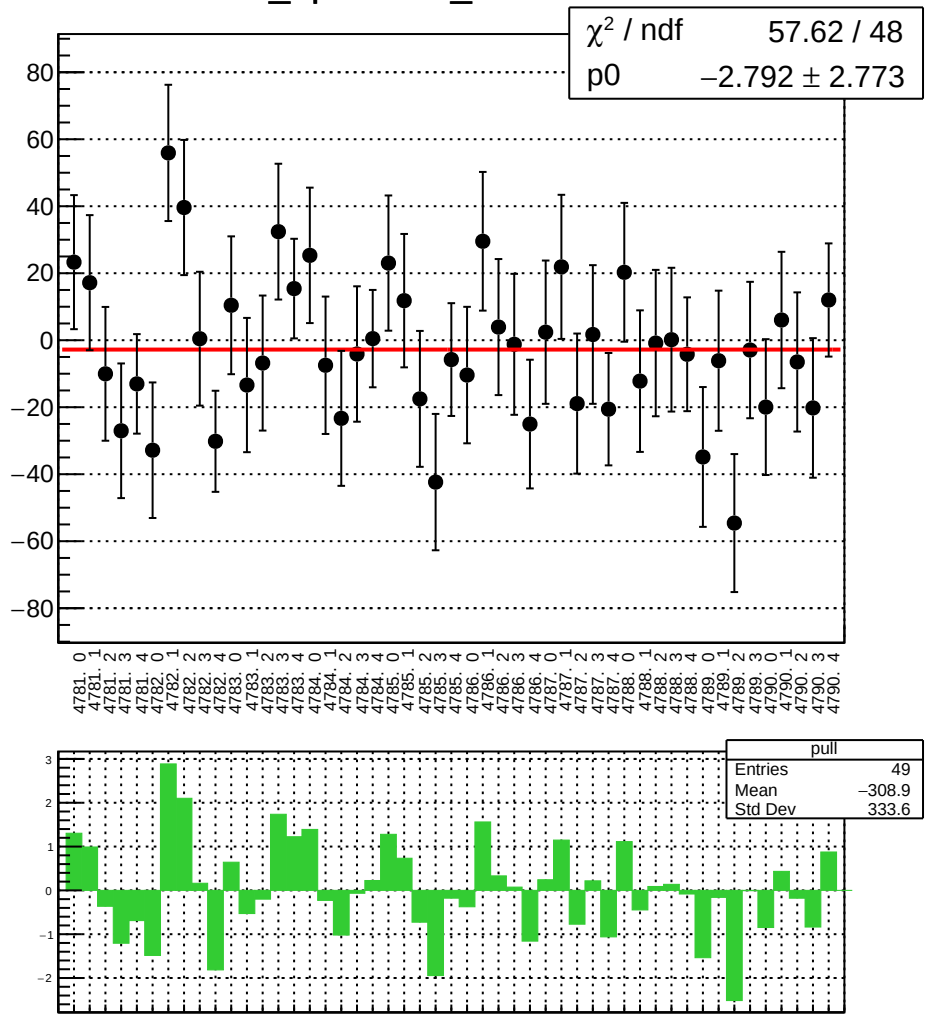

pull1D
Entries 49
Mean −0.002203
Std Dev 0.8097

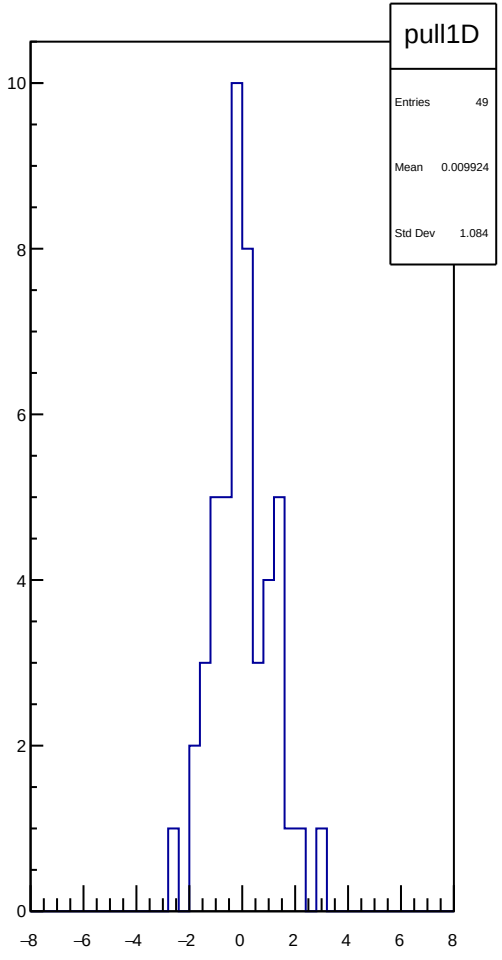

diff_bpm4eX_rms vs run
χ² / ndf 251.1 / 48
p0 9263 ± 9.325
9700
9600
9500
9400
9300
9200
9100
9000
8900
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

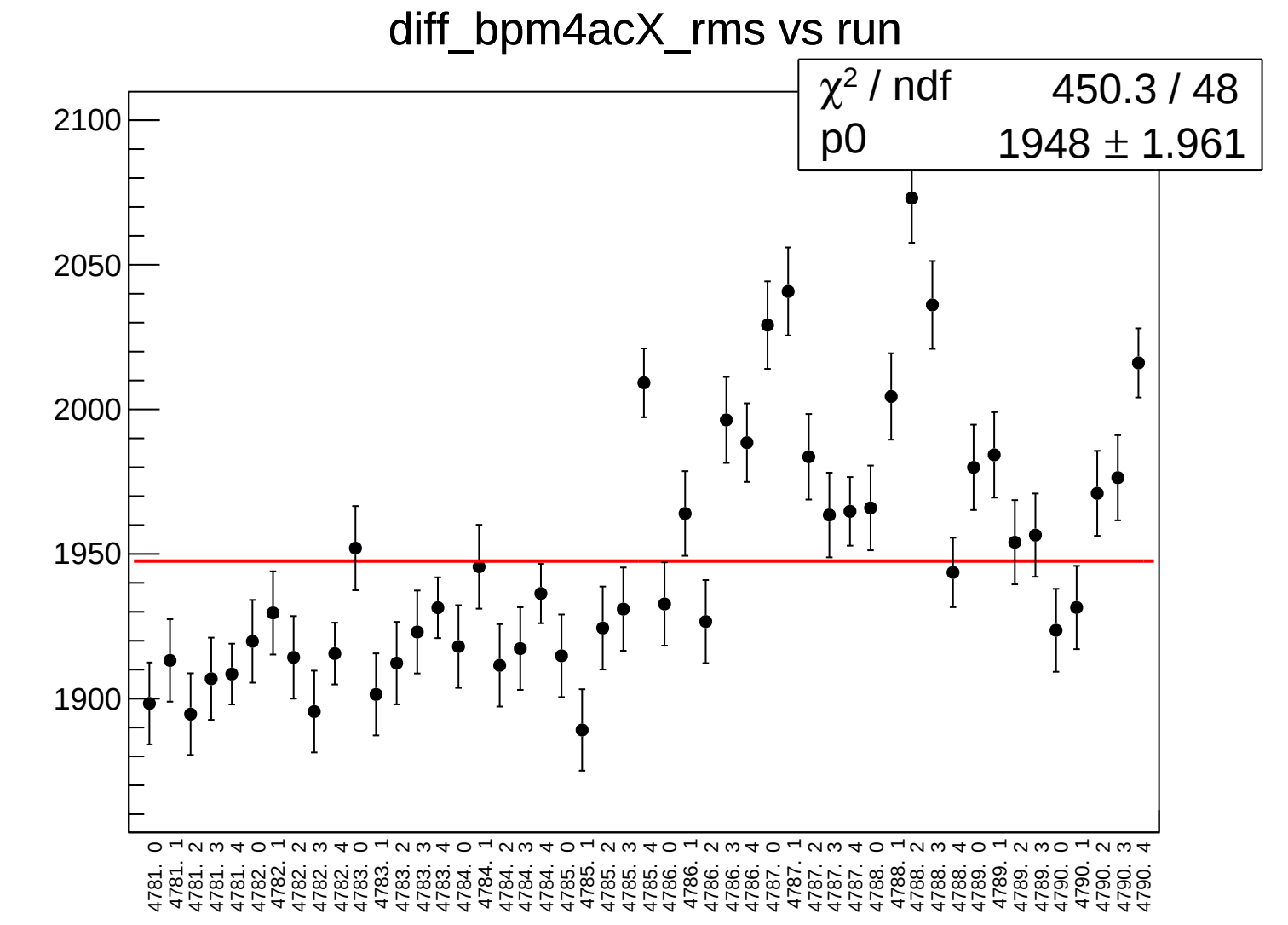

diff_bpm4eY_mean vs run
χ² / ndf 48.25 / 48
p0 4.656 ± 2.974
pull
Entries 49
Mean 49.7
Std Dev 24.55

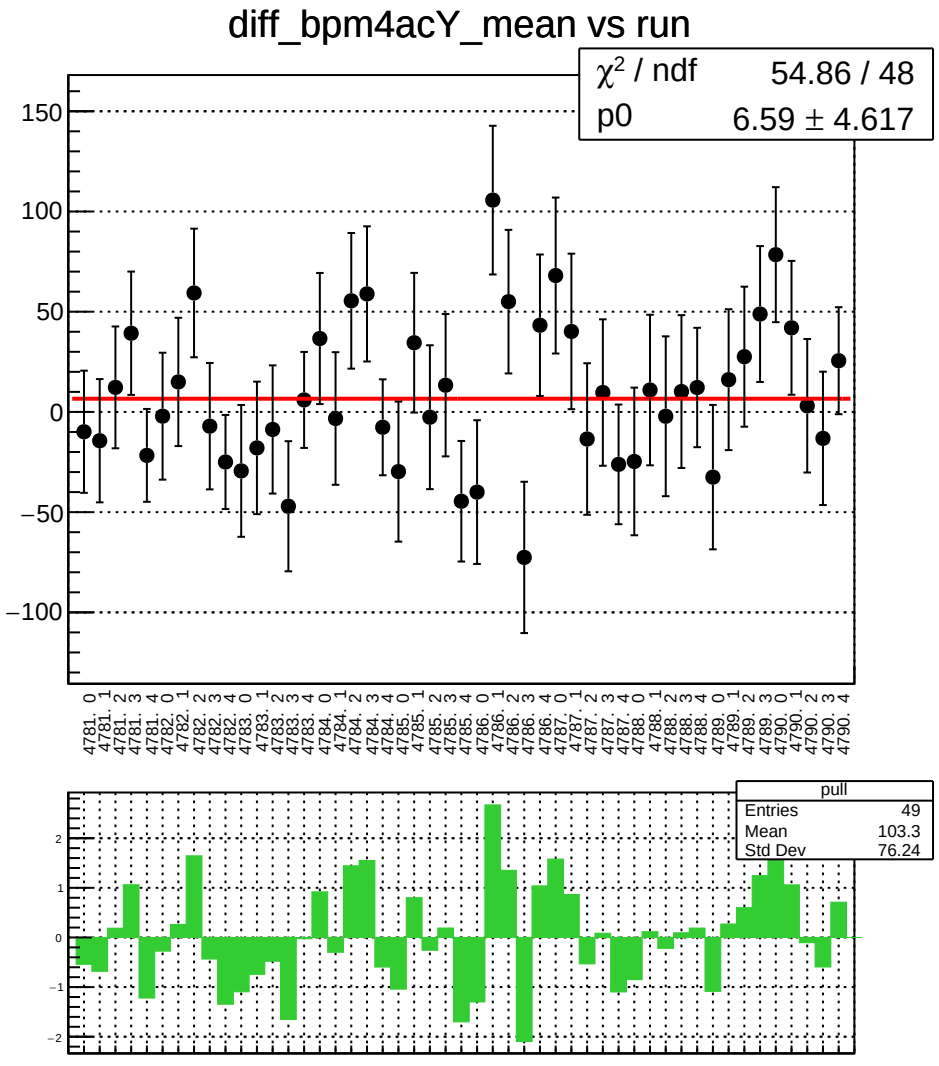

pull1D
Entries 49
Mean 0.02582
Std Dev 0.992

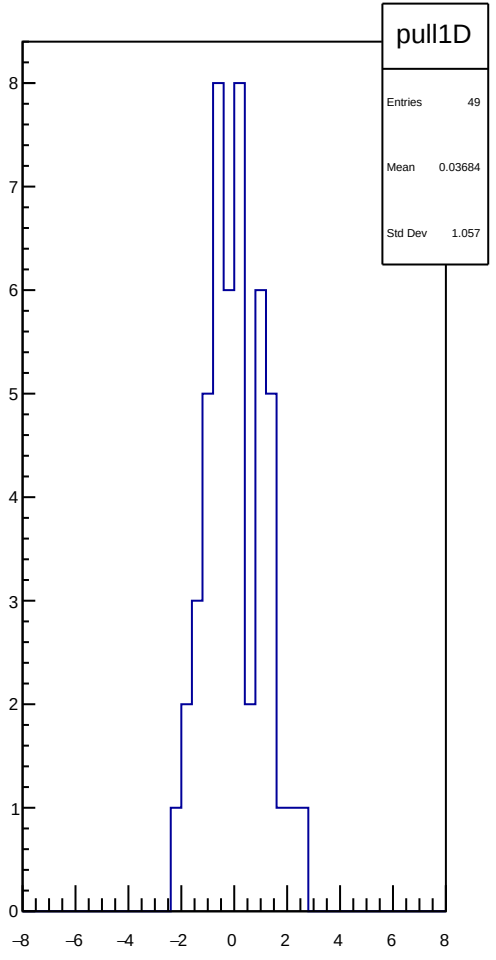

diff_bpm4eY_rms vs run
χ² / ndf 2654 / 48
p0 2086 ± 2.103
2500
2400
2300
2200
2100
2000
1900
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

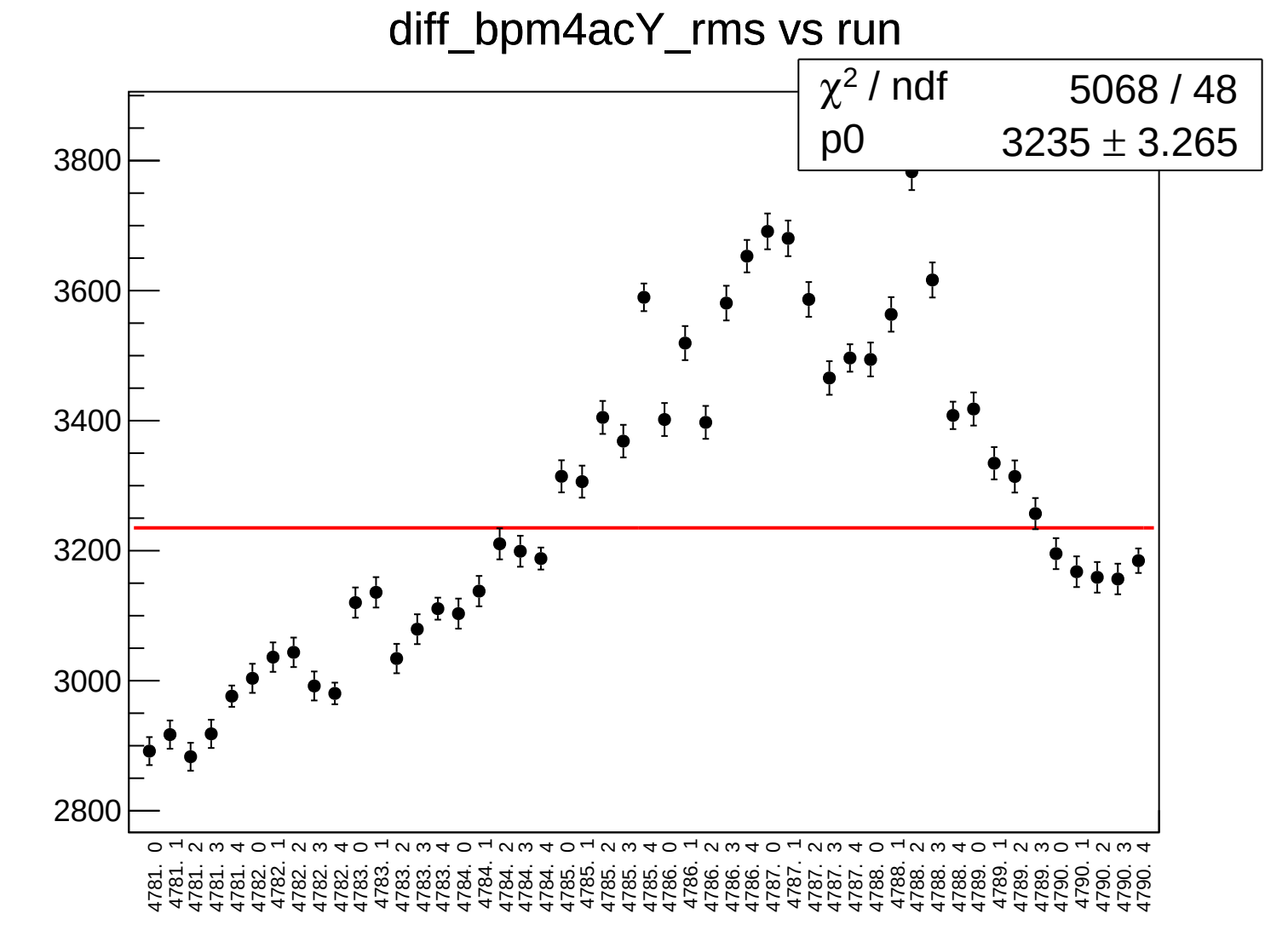

diff_bpm4acX_mean vs run
χ² / ndf 57.62 / 48
p0 −2.792 ± 2.773
pull
Entries 49
Mean −308.9
Std Dev 333.6

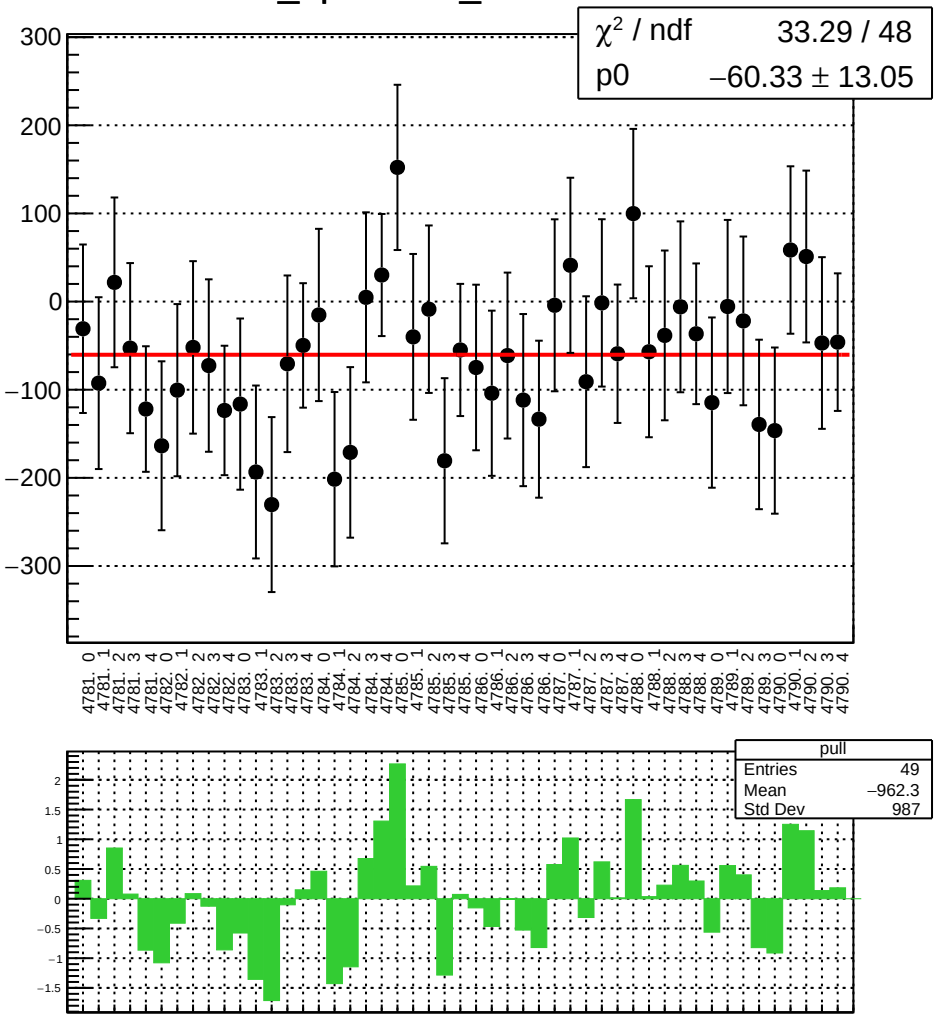

pull1D
Entries 49
Mean 0.009924
Std Dev 1.084

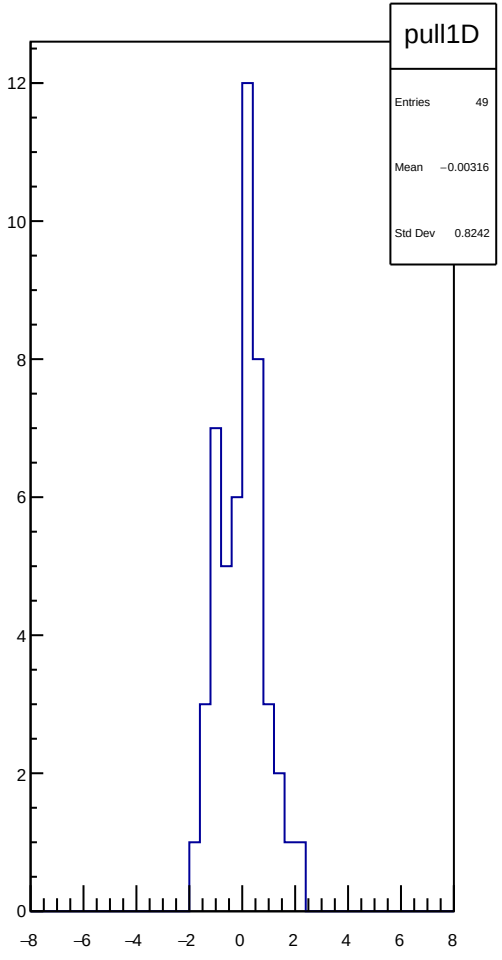

diff_bpm4acX_rms vs run
χ^2 / ndf 450.3 / 48
p0 1948 ± 1.961
2100
2050
2000
1950
1900
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

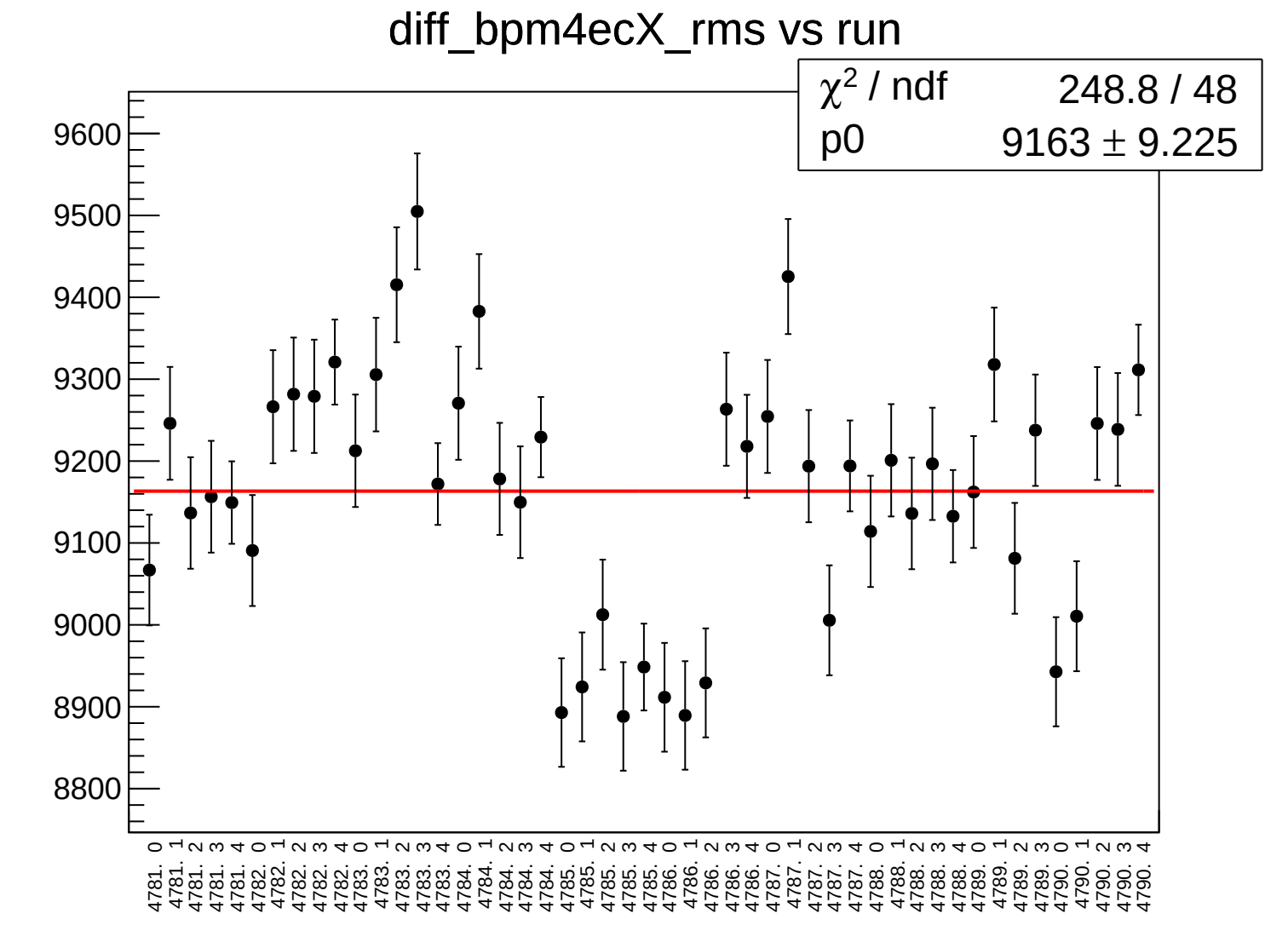

diff_bpm4acY_mean vs run
χ^2 / ndf 54.86 / 48
p0 6.59 ± 4.617
150
100
50
0
−50
−100
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 103.3
Std Dev 76.24
2
1
0
−1
−2

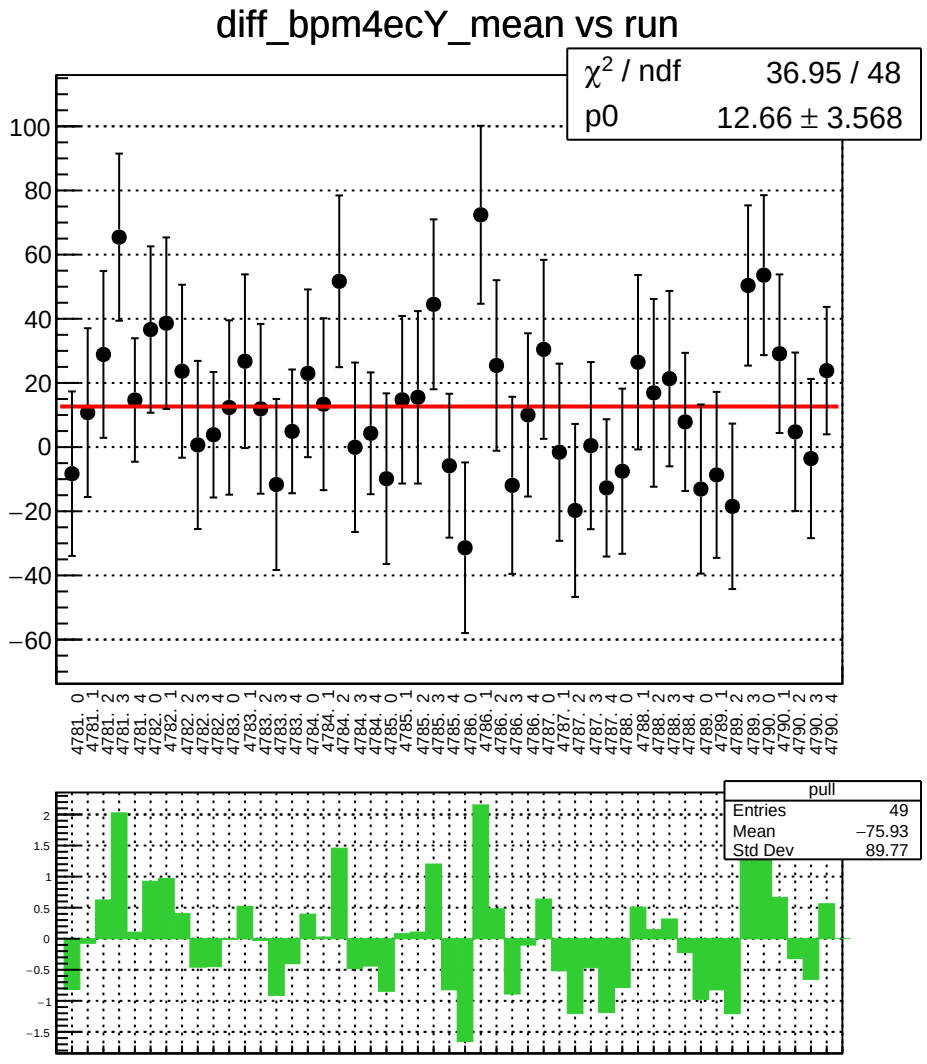

pull1D
Entries 49
Mean 0.03684
Std Dev 1.057
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

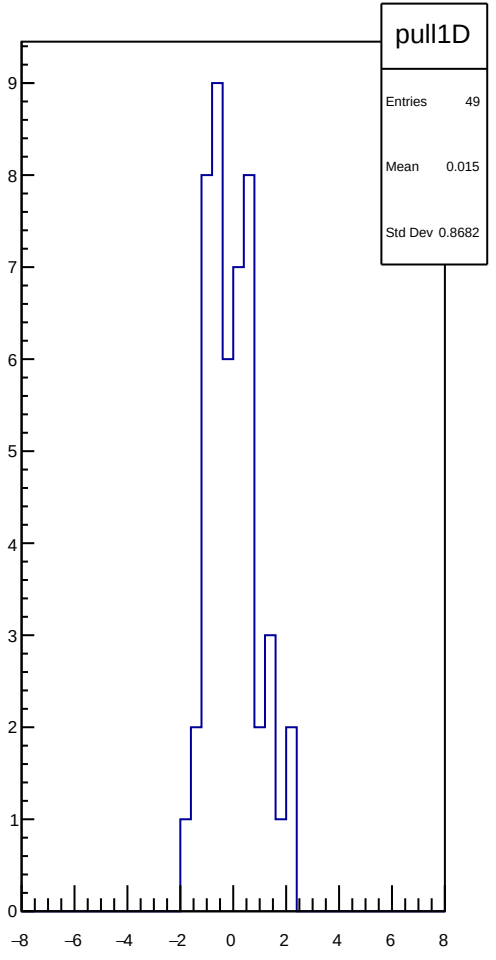

diff_bpm4acY_rms vs run
χ² / ndf 5068 / 48
p0 3235 ± 3.265
3800
3600
3400
3200
3000
2800
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

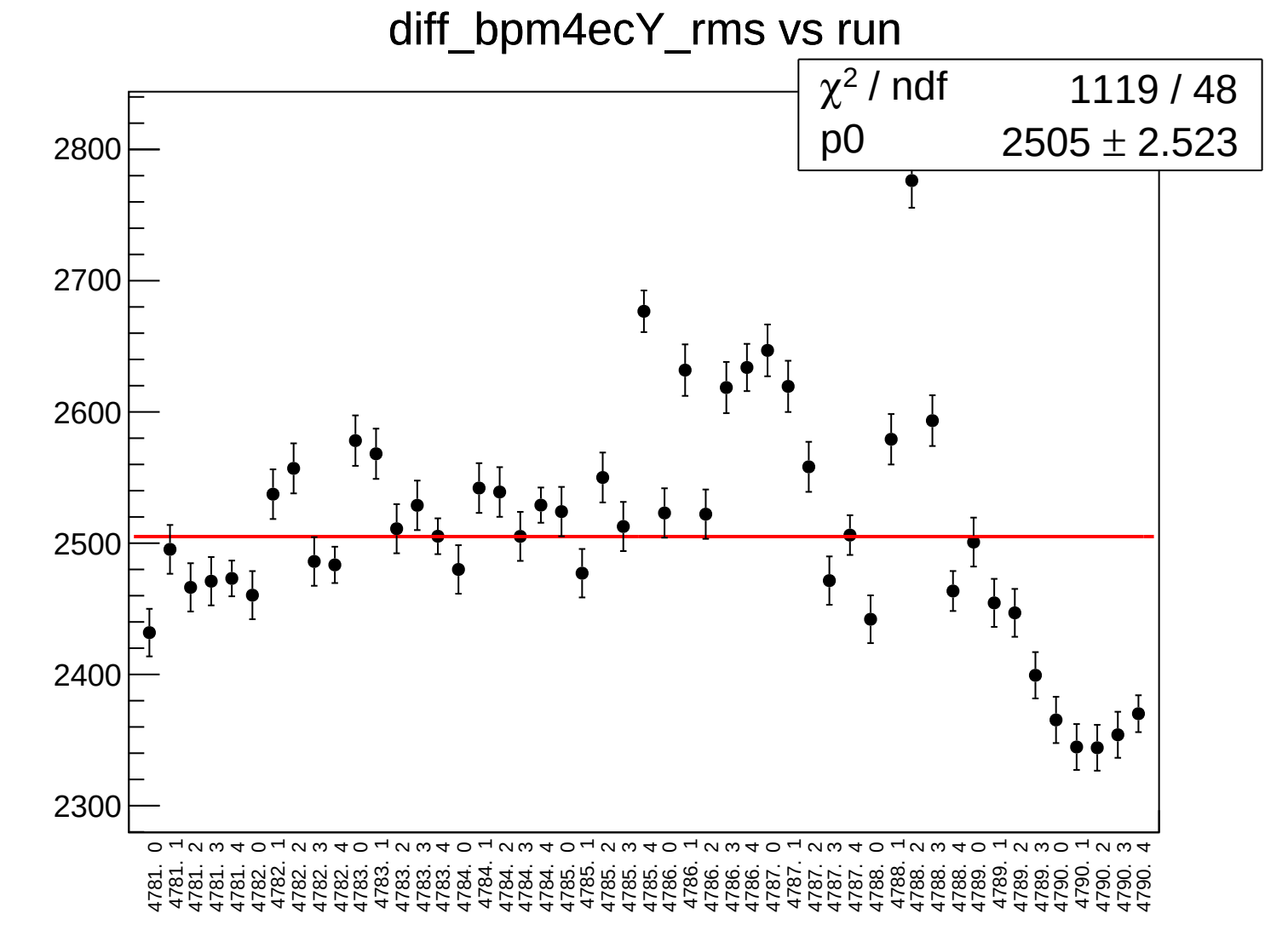

diff_bpm4ecX_mean vs run
χ² / ndf 33.29 / 48
p0 −60.33 ± 13.05
pull
Entries 49
Mean −962.3
Std Dev 987

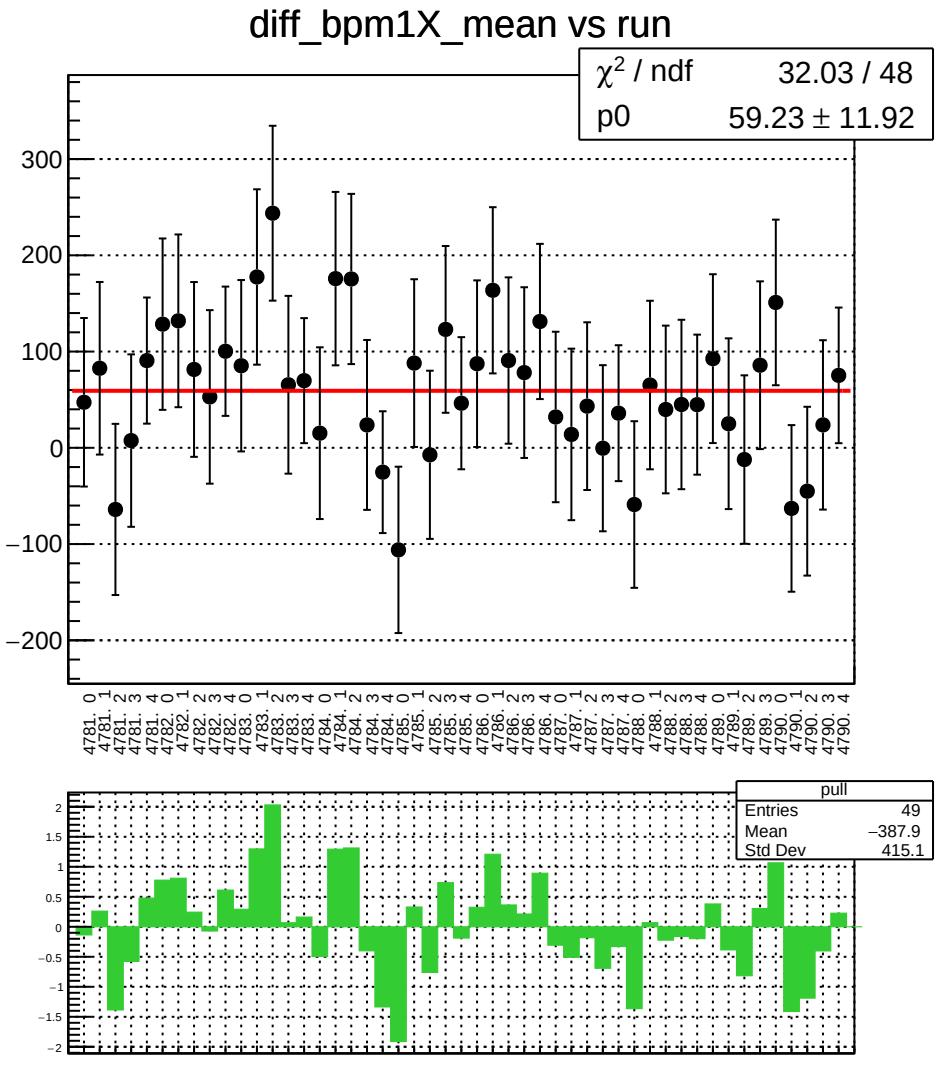

pull1D
Entries 49
Mean −0.00316
Std Dev 0.8242

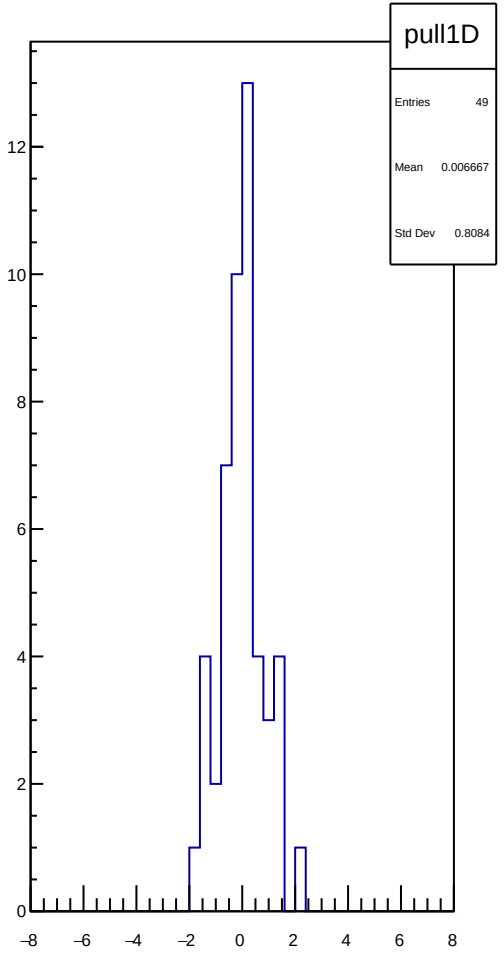

diff_bpm4ecX_rms vs run
χ² / ndf 248.8 / 48
p0 9163 ± 9.225
9600
9500
9400
9300
9200
9100
9000
8900
8800
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

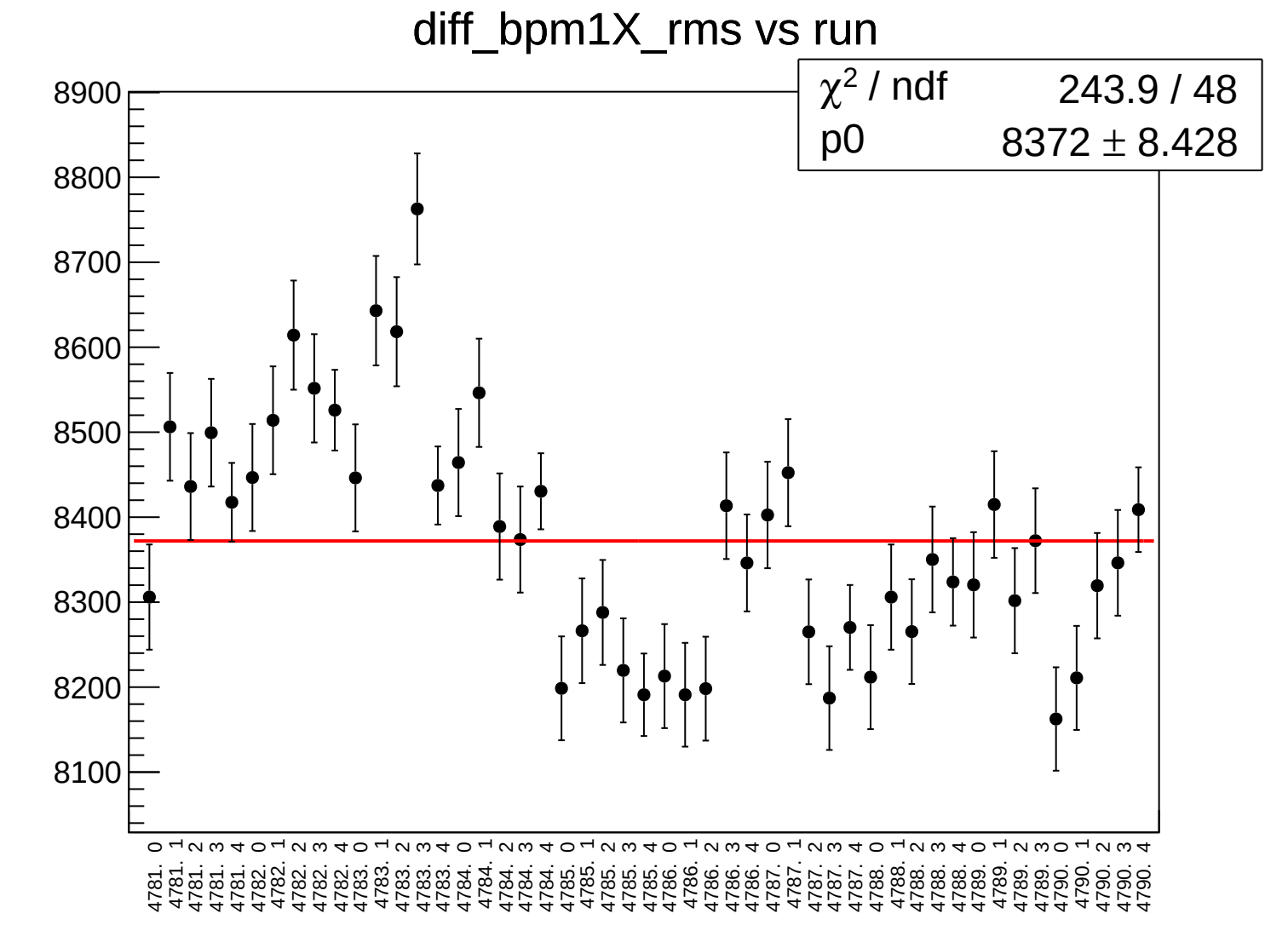

diff_bpm4ecY_mean vs run
χ^2 / ndf 36.95 / 48
p0 12.66 ± 3.568
pull
Entries 49
Mean −75.93
Std Dev 89.77

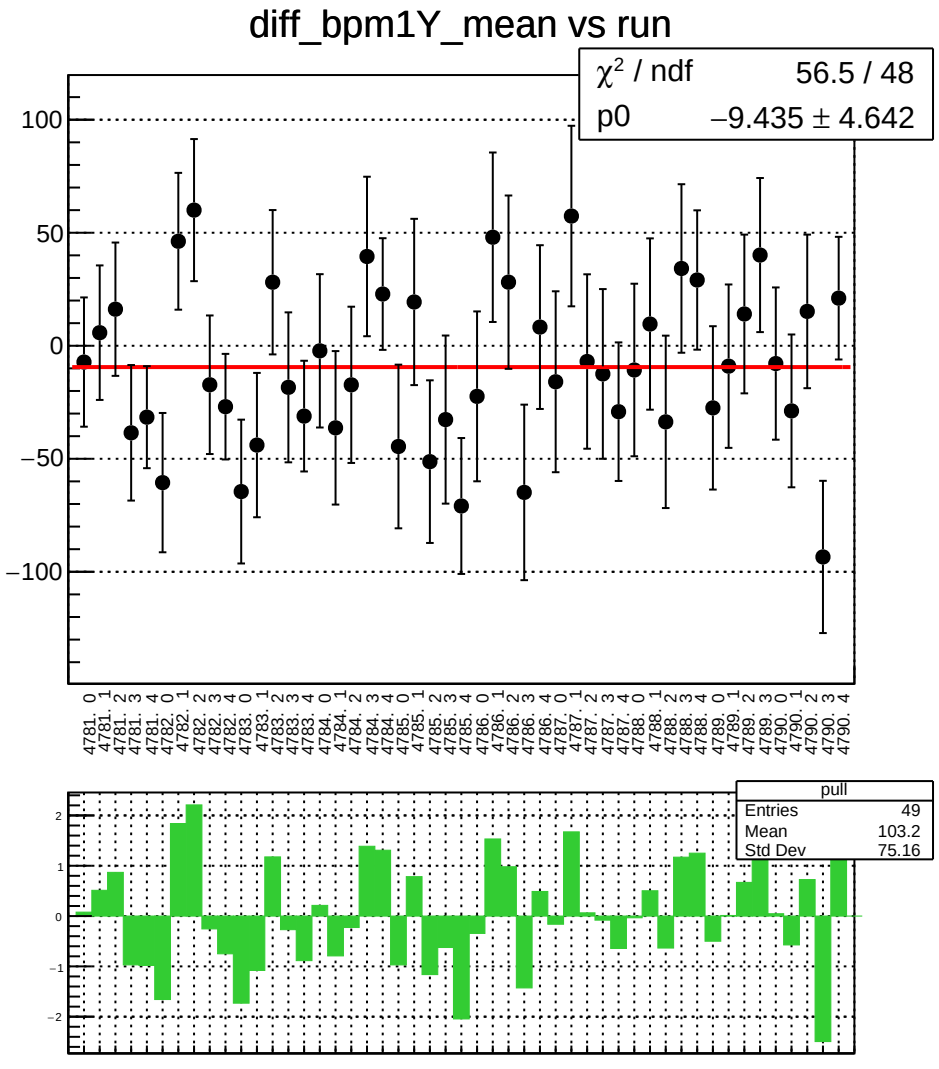

pull1D
Entries 49
Mean 0.015
Std Dev 0.8682

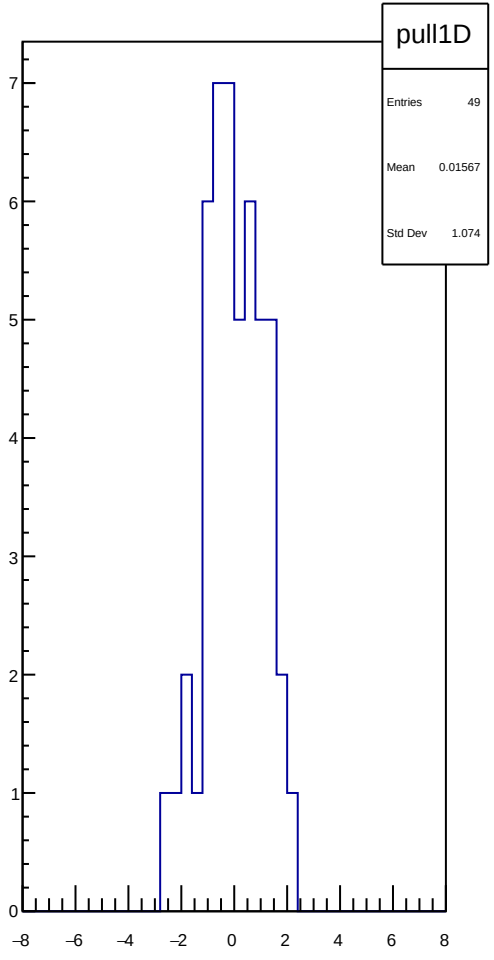

diff_bpm4ecY_rms vs run
χ² / ndf 1119 / 48
p0 2505 ± 2.523
2800
2700
2600
2500
2400
2300
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

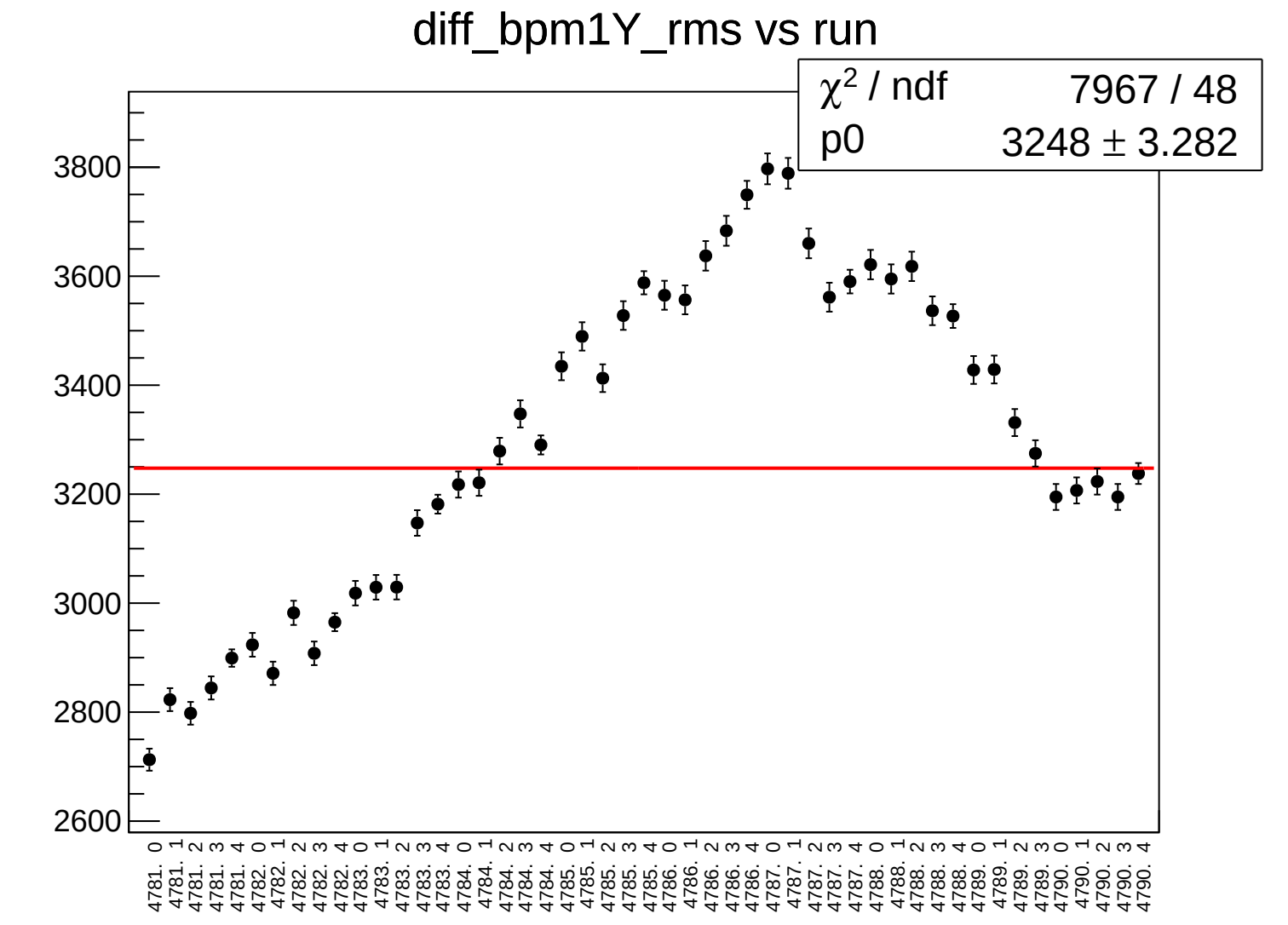

diff_bpm1X_mean vs run
χ² / ndf 32.03 / 48
p0 59.23 ± 11.92
pull
Entries 49
Mean −387.9
Std Dev 415.1

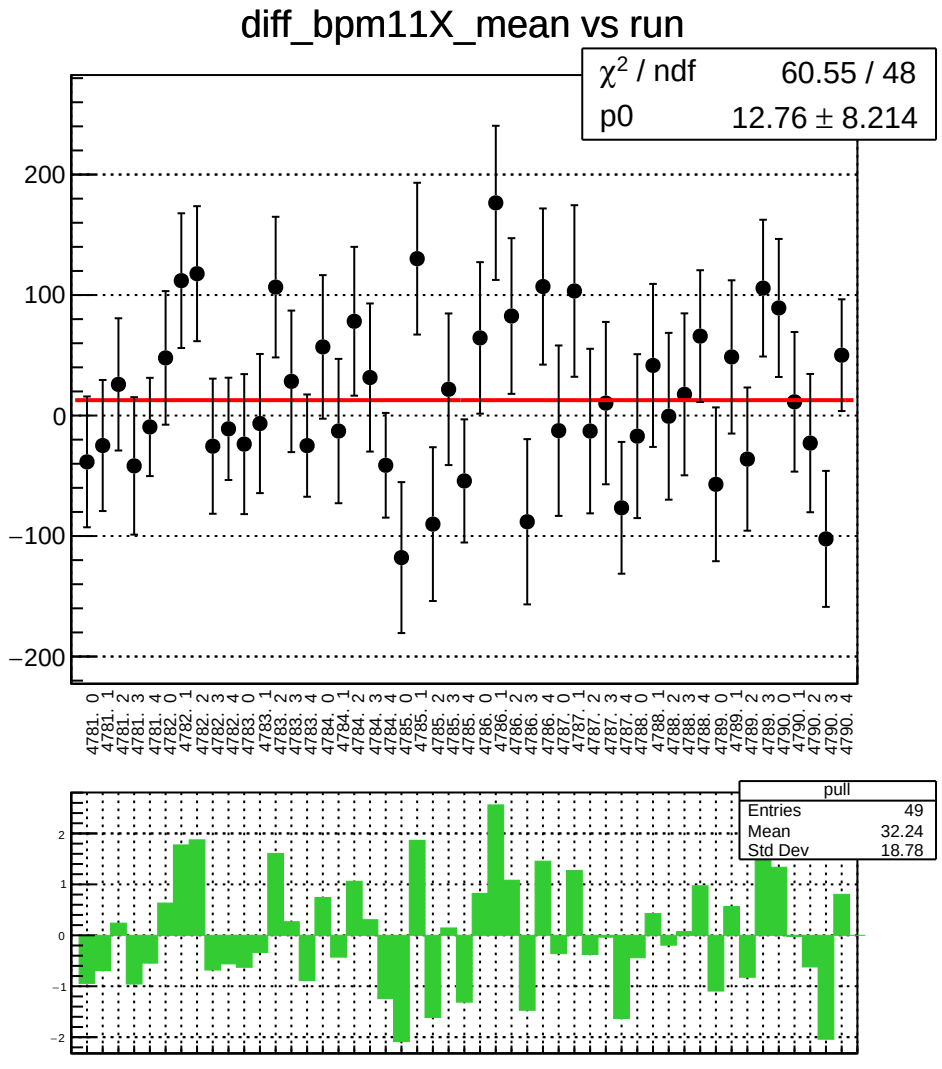

pull1D
Entries 49
Mean 0.006667
Std Dev 0.8084

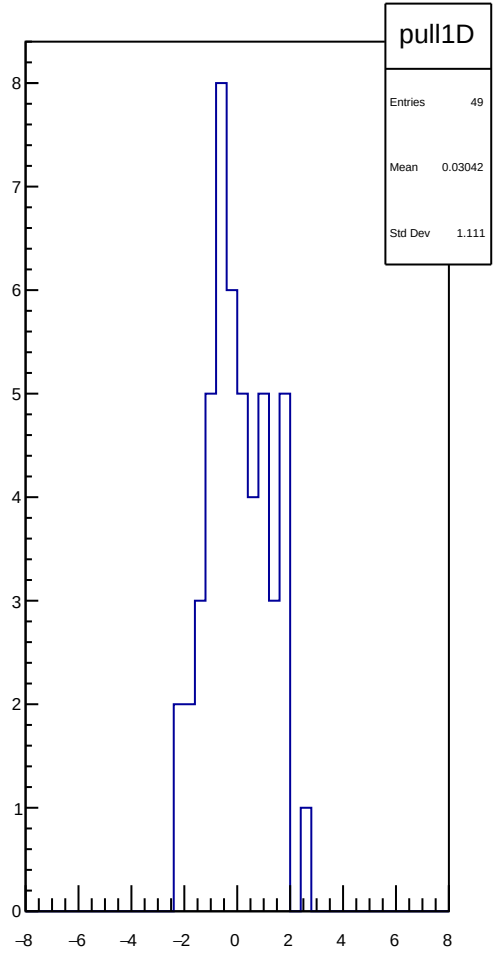

diff_bpm1X_rms vs run
χ² / ndf 243.9 / 48
p0 8372 ± 8.428
8900
8800
8700
8600
8500
8400
8300
8200
8100
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

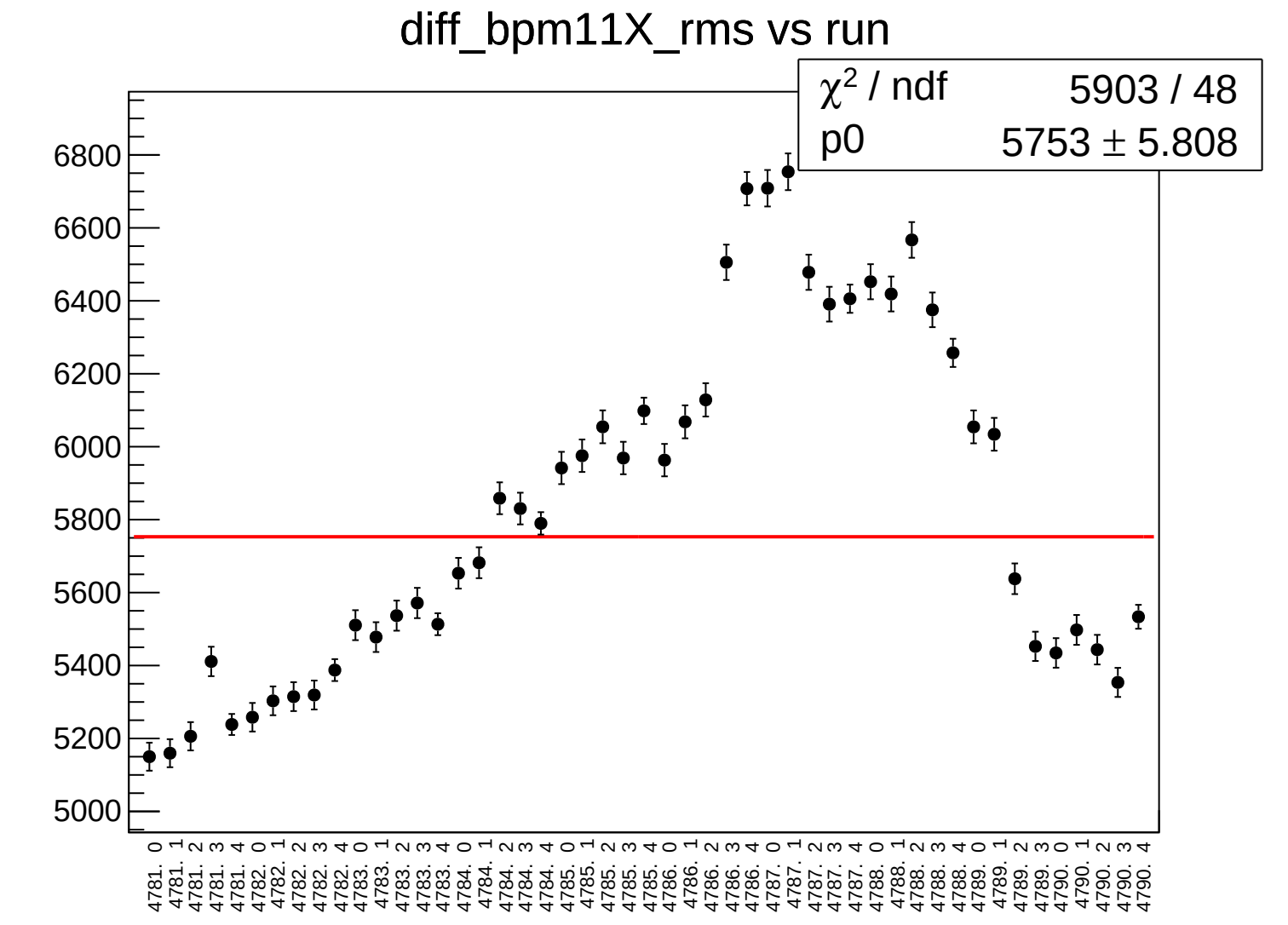

diff_bpm1Y_mean vs run
χ² / ndf 56.5 / 48
p0 −9.435 ± 4.642
100
50
0
−50
−100
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 103.2
Std Dev 75.16
2
1
0
−1
−2

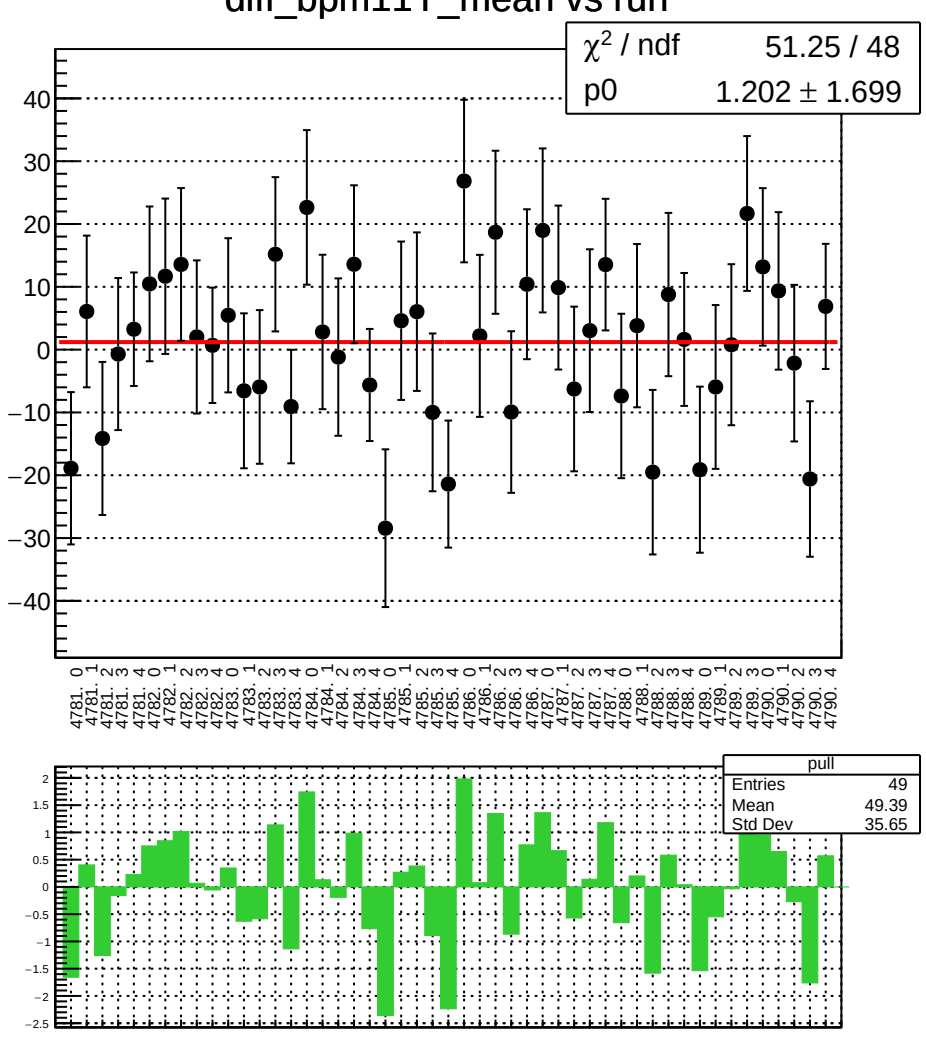

pull1D
Entries 49
Mean 0.01567
Std Dev 1.074
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

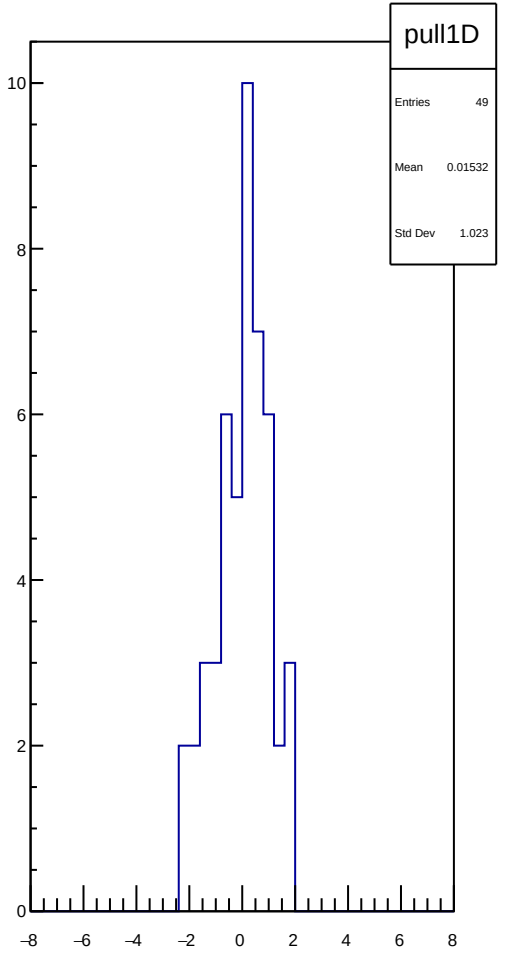

diff_bpm1Y_rms vs run
χ² / ndf 7967 / 48
p0 3248 ± 3.282
3800
3600
3400
3200
3000
2800
2600
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

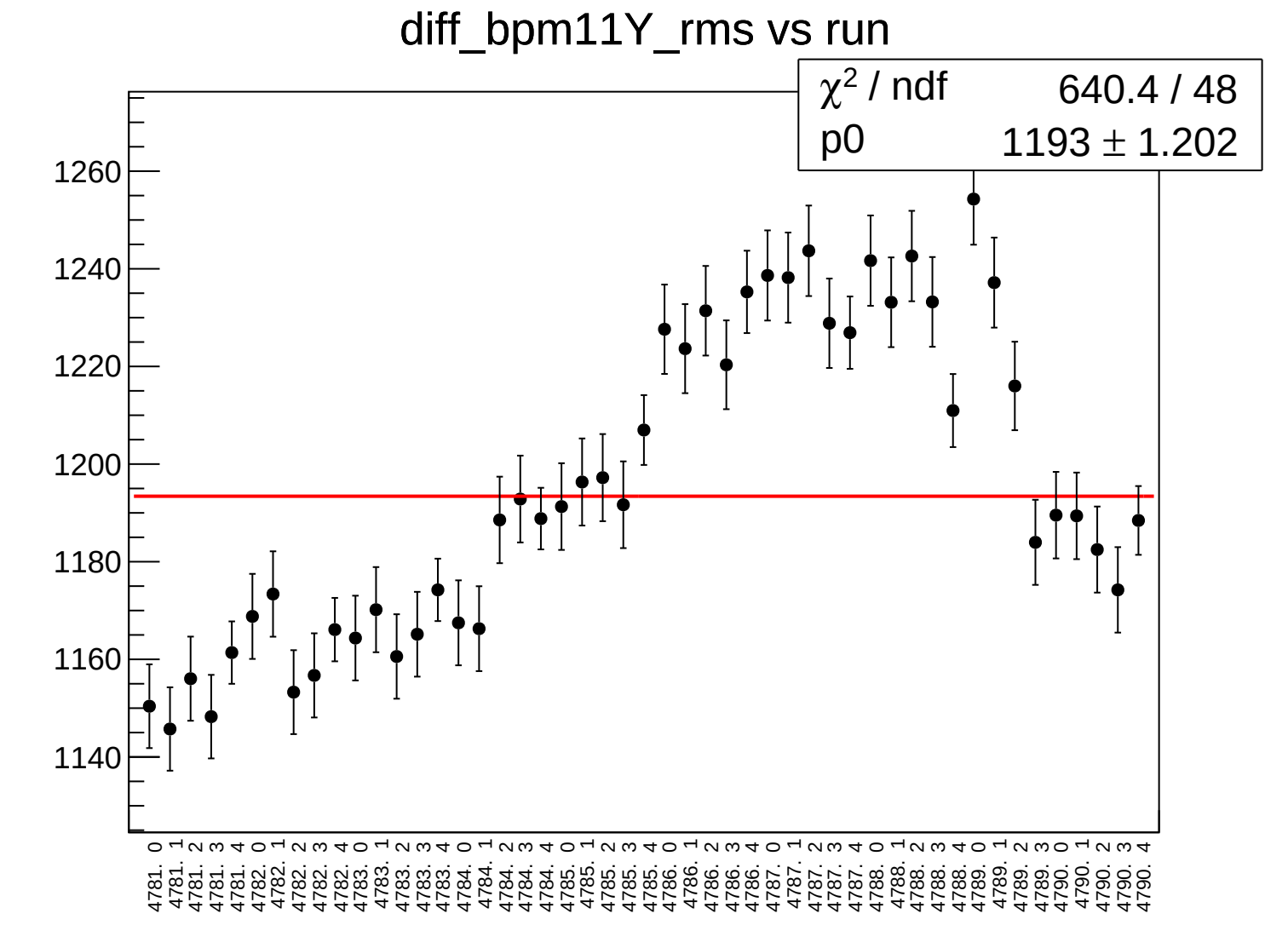

diff_bpm11X_mean vs run
χ^2 / ndf 60.55 / 48
p0 12.76 ± 8.214
200
100
0
−100
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 32.24
Std Dev 18.78
2
1
0
−1
−2

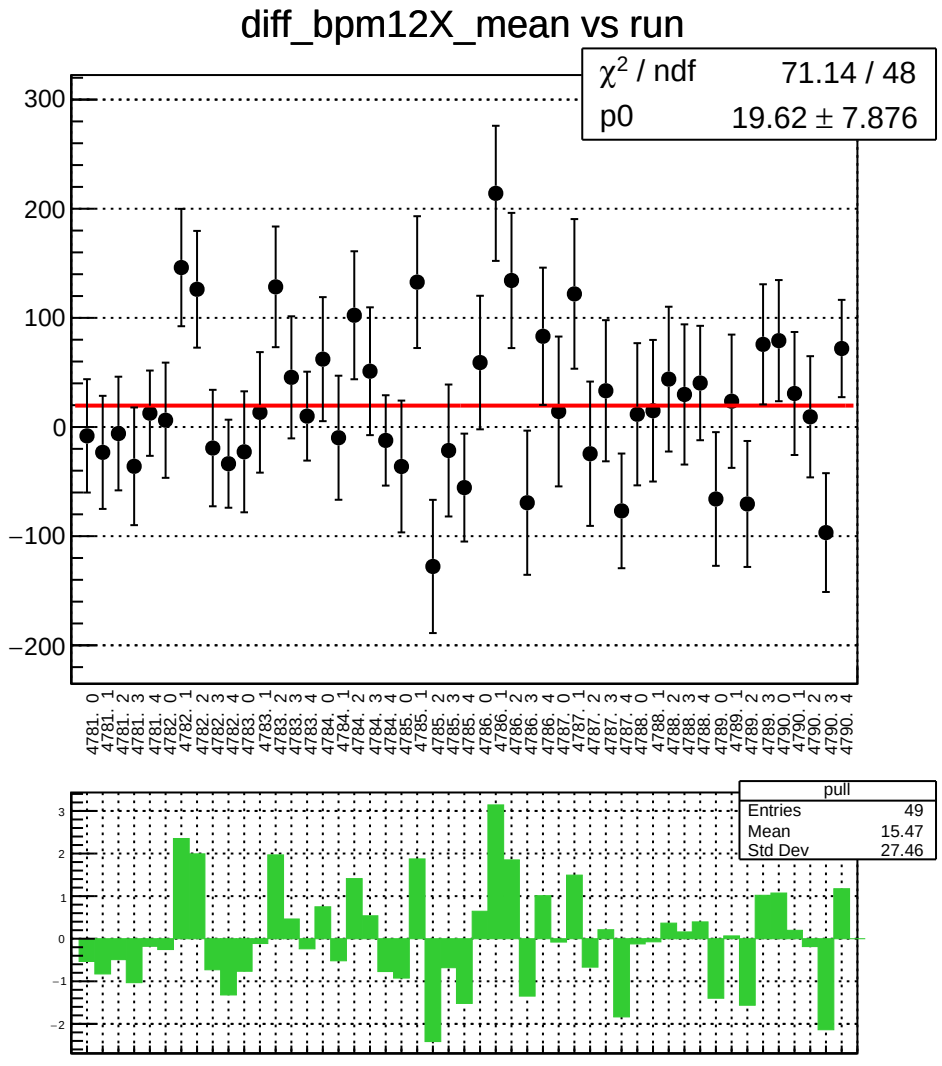

pull1D
Entries 49
Mean 0.03042
Std Dev 1.111
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

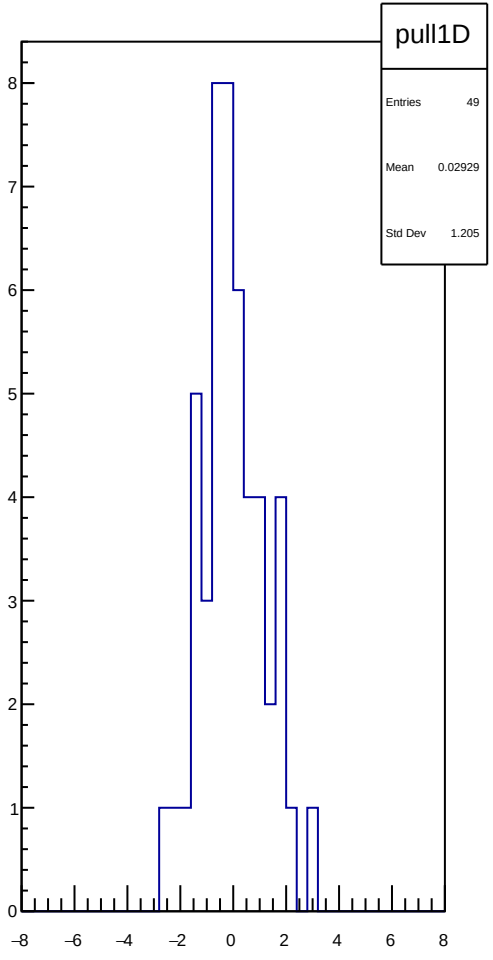

diff_bpm11X_rms vs run
χ² / ndf 5903 / 48
p0 5753 ± 5.808
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

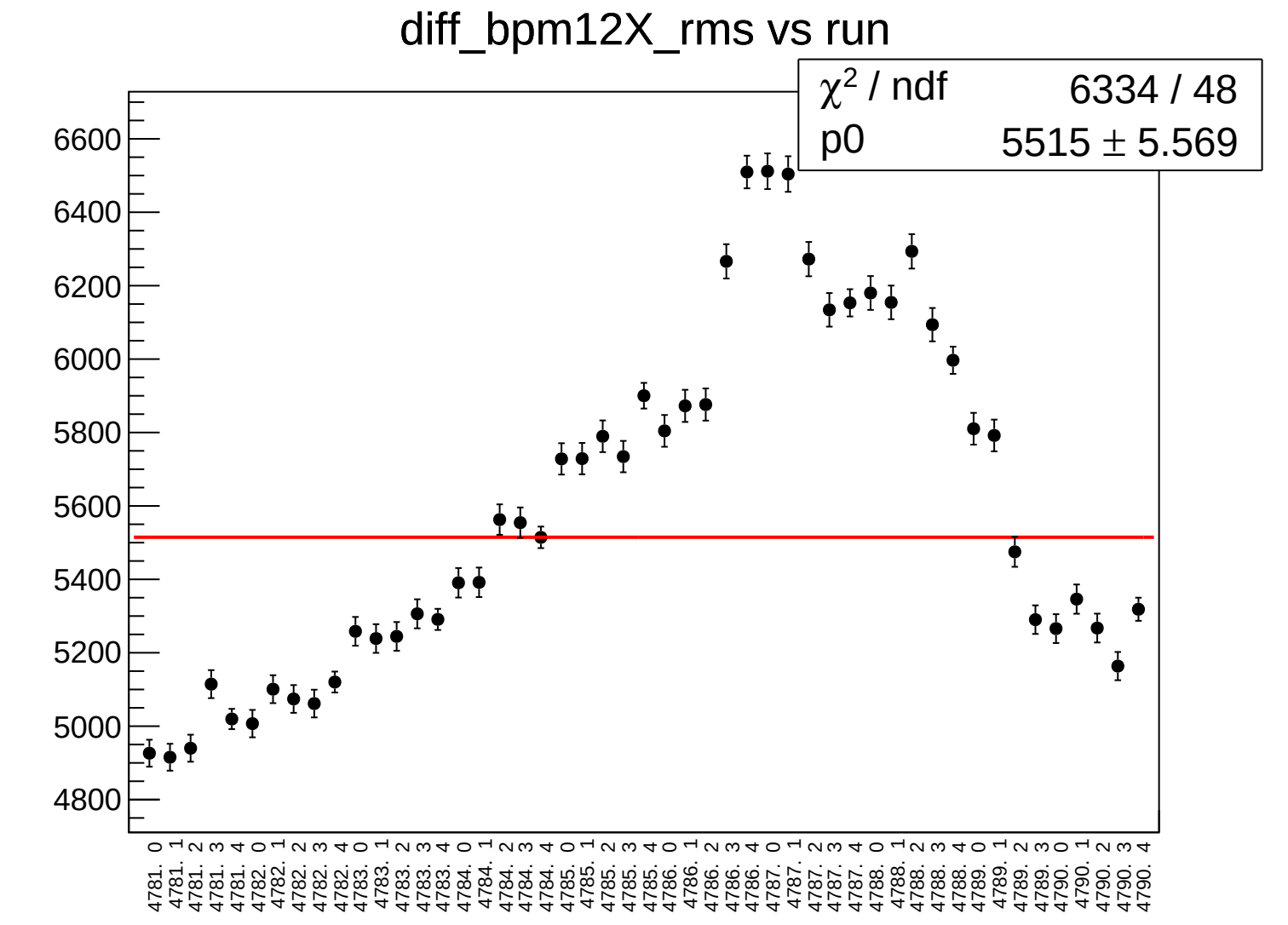

diff_bpm11Y_mean vs run
χ^2 / ndf 51.25 / 48
p0 1.202 ± 1.699
pull
Entries 49
Mean 49.39
Std Dev 35.65

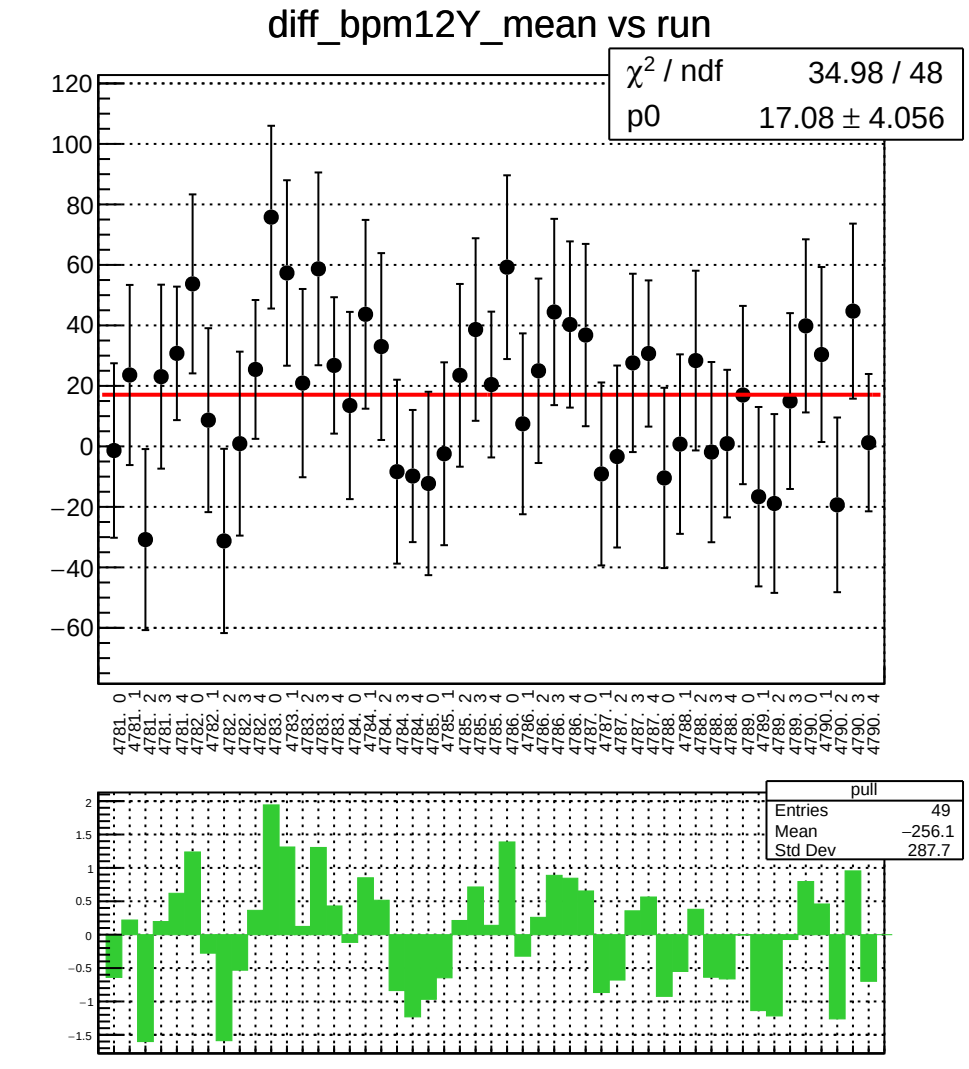

pull1D
Entries 49
Mean 0.01532
Std Dev 1.023

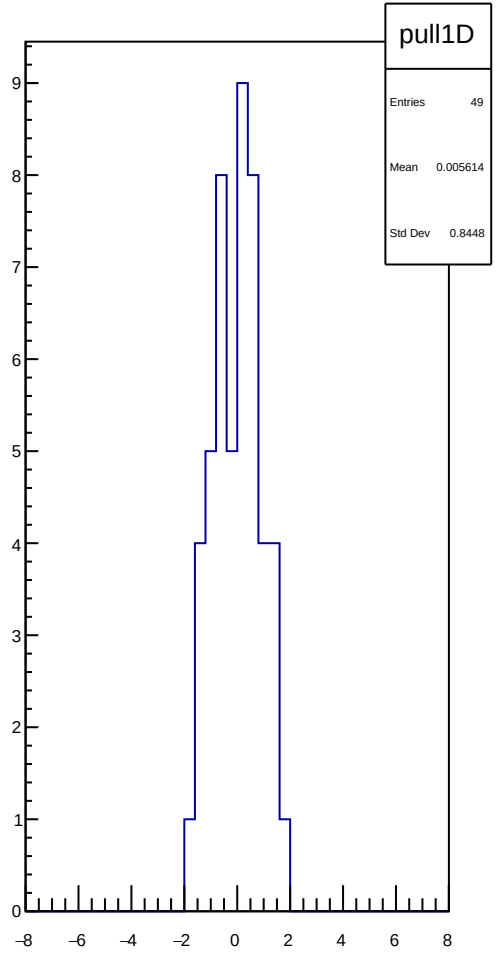

diff_bpm11Y_rms vs run
χ² / ndf 640.4 / 48
p0 1193 ± 1.202
1260
1240
1220
1200
1180
1160
1140
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

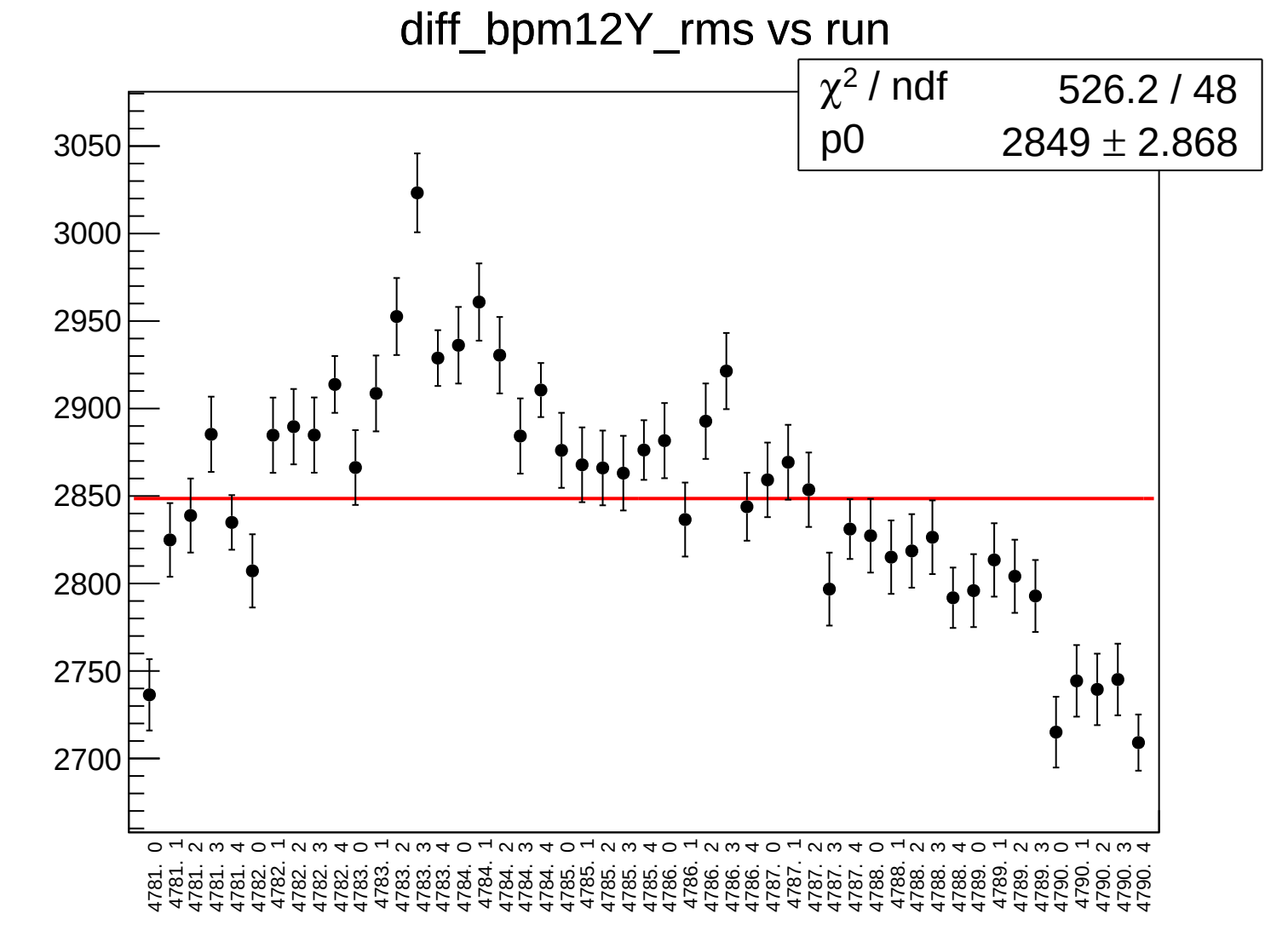

diff_bpm12X_mean vs run
χ^2 / ndf 71.14 / 48
p0 19.62 ± 7.876
300
200
100
0
−100
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 15.47
Std Dev 27.46
3
2
1
0
−1
−2

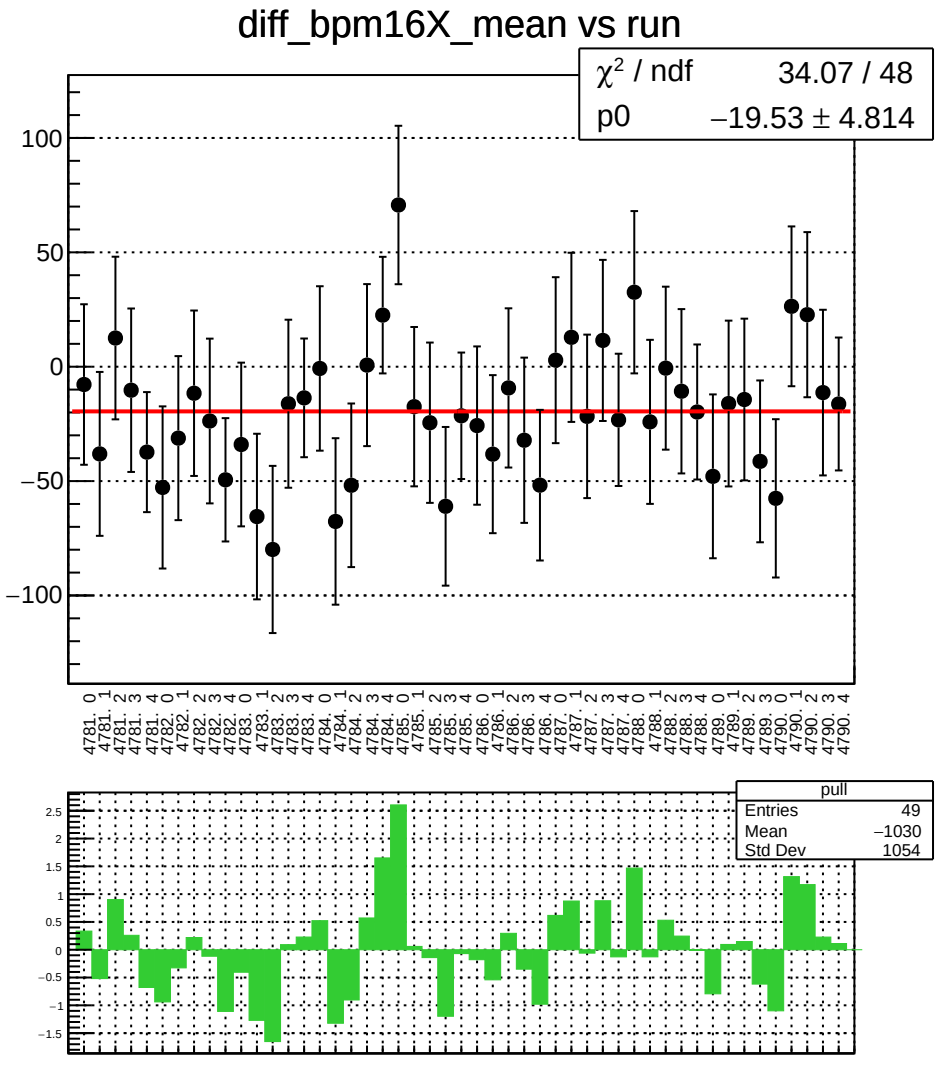

pull1D
Entries 49
Mean 0.02929
Std Dev 1.205
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

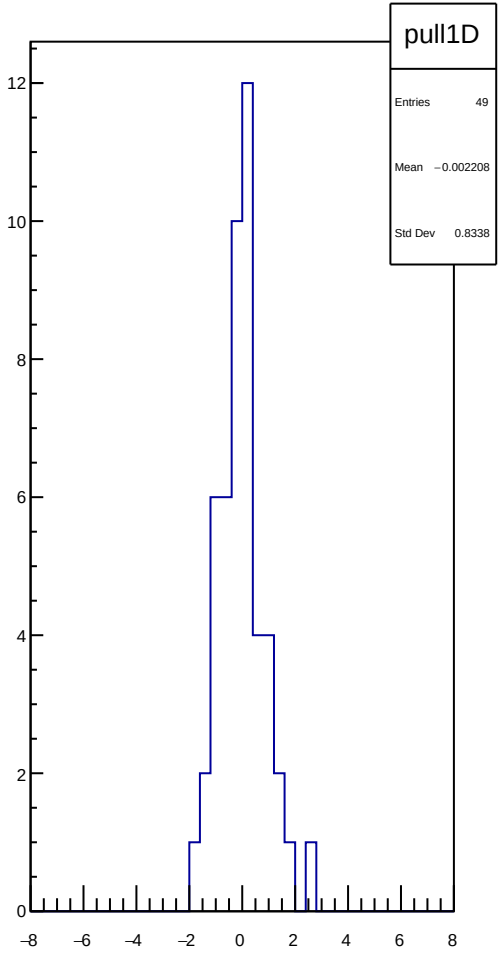

diff_bpm12X_rms vs run
χ² / ndf 6334 / 48
p0 5515 ± 5.569
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

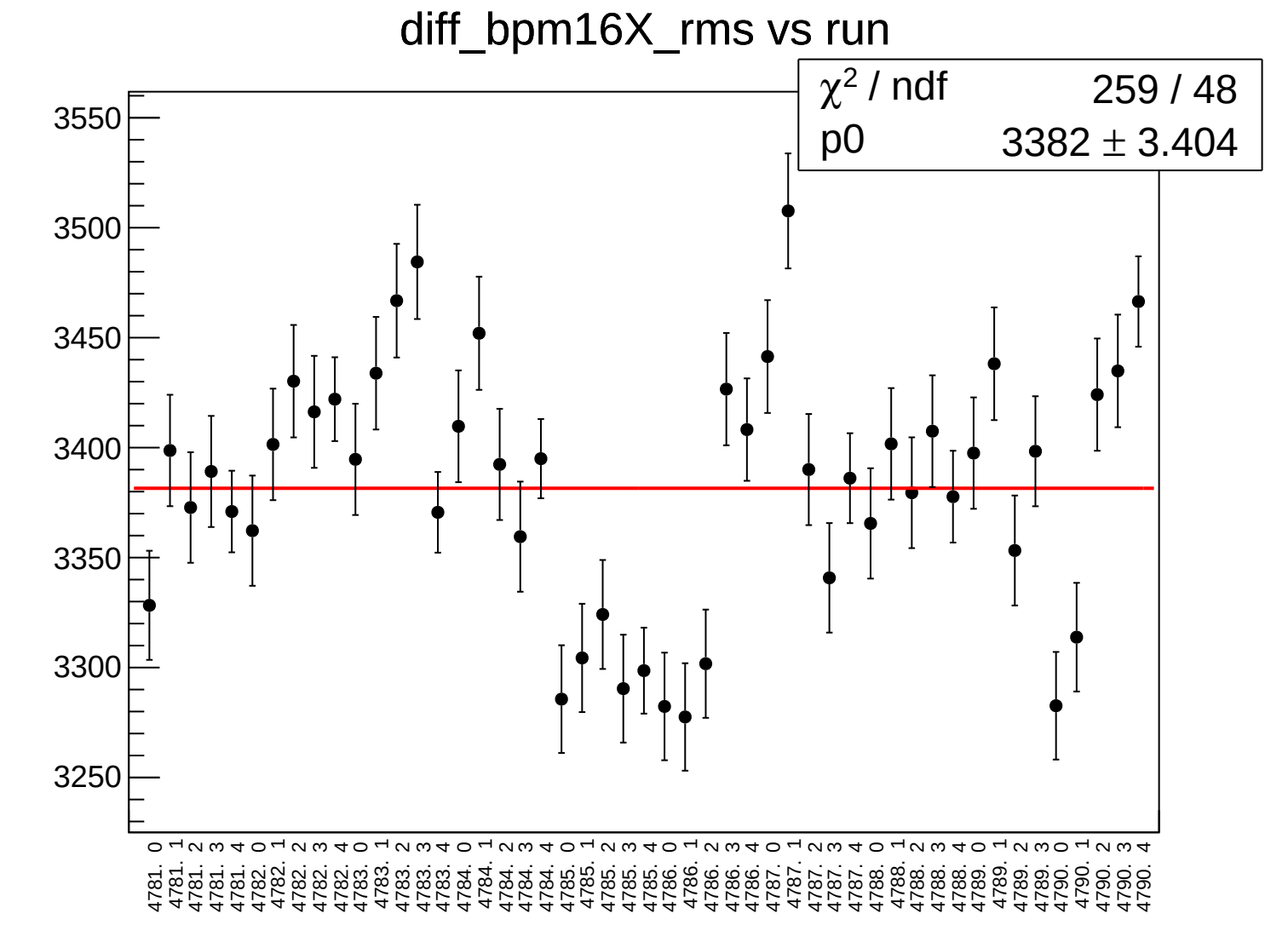

diff_bpm12Y_mean vs run
χ^2 / ndf 34.98 / 48
p0 17.08 ± 4.056
pull
Entries 49
Mean −256.1
Std Dev 287.7

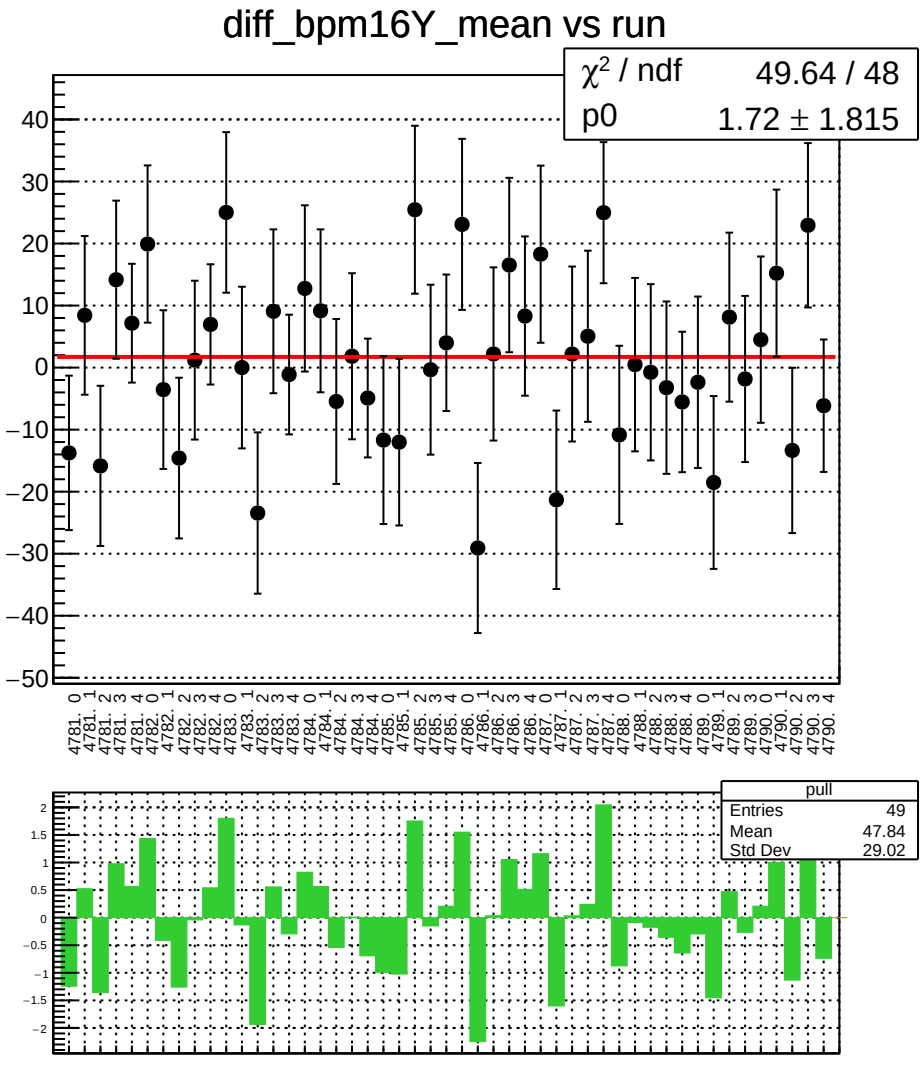

pull1D
Entries 49
Mean 0.005614
Std Dev 0.8448

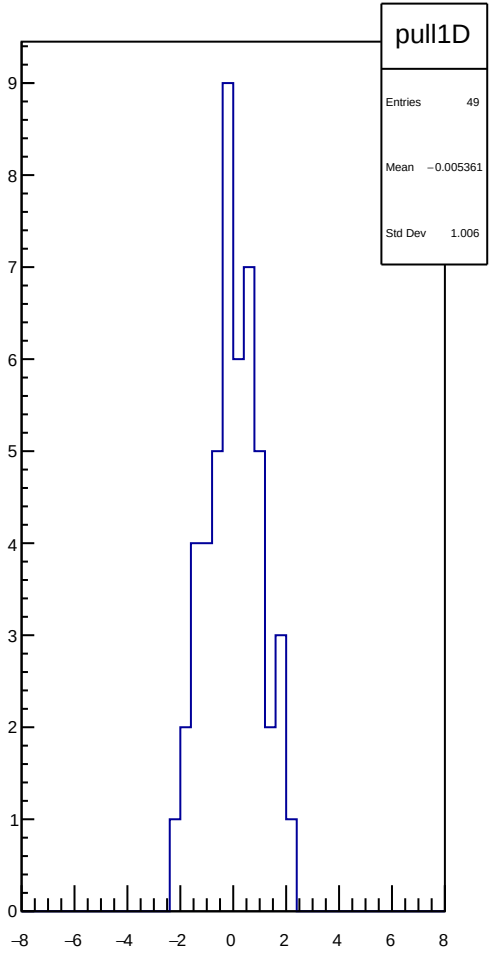

diff_bpm12Y_rms vs run
χ² / ndf 526.2 / 48
p0 2849 ± 2.868
3050
3000
2950
2900
2850
2800
2750
2700
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

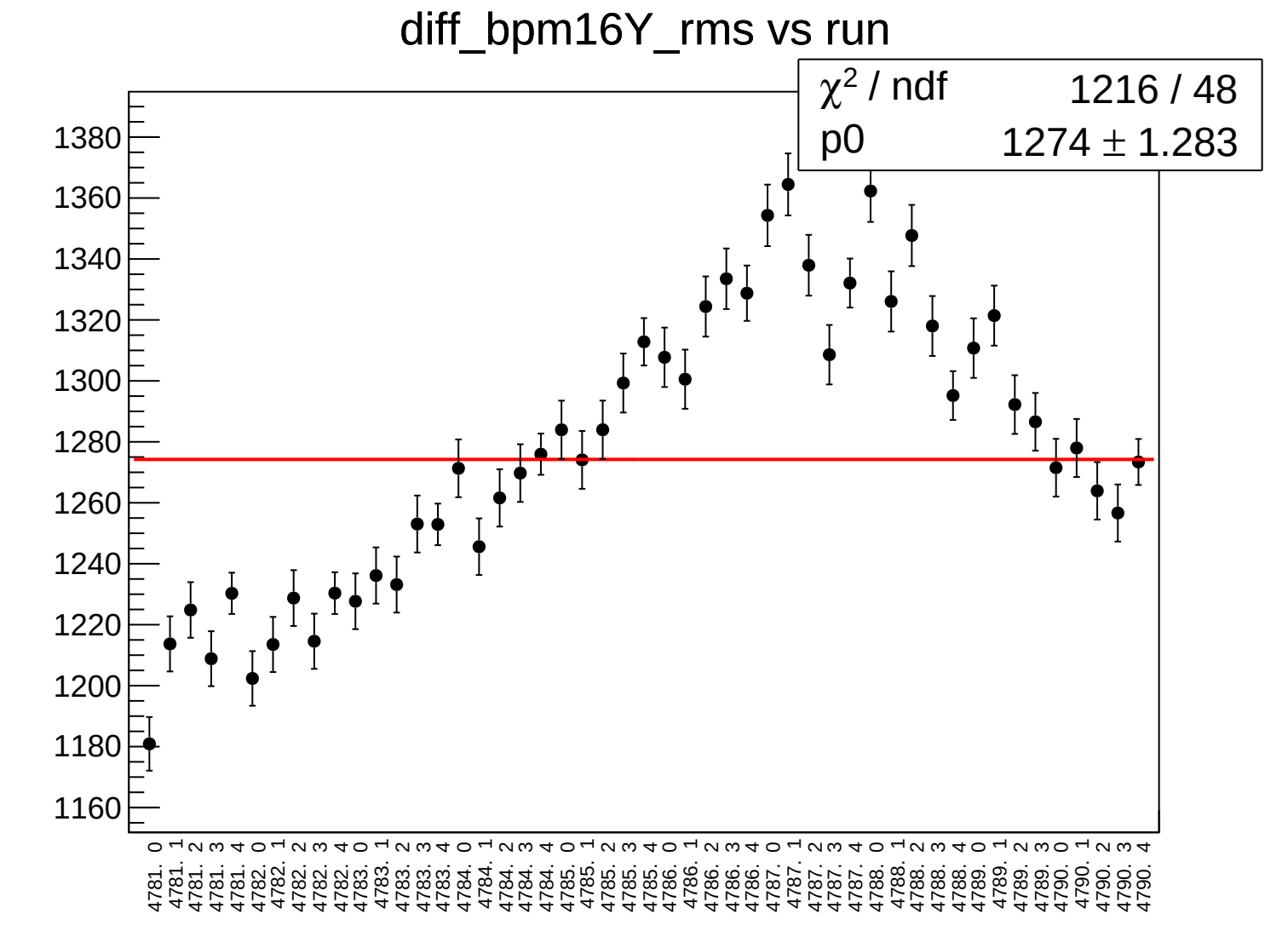

diff_bpm16X_mean vs run
χ² / ndf 34.07 / 48
p0 −19.53 ± 4.814
100
50
0
−50
−100
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −1030
Std Dev 1054
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

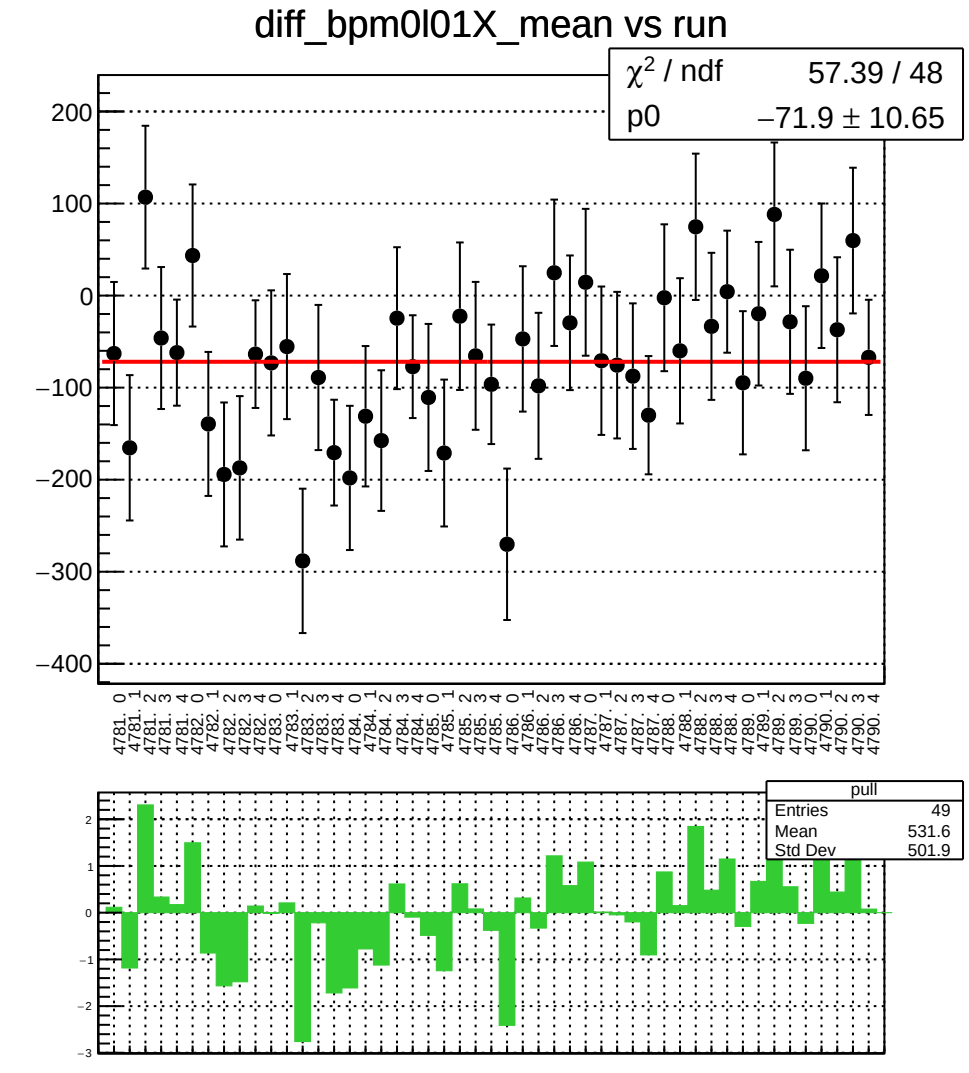

pull1D
Entries 49
Mean −0.002208
Std Dev 0.8338
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

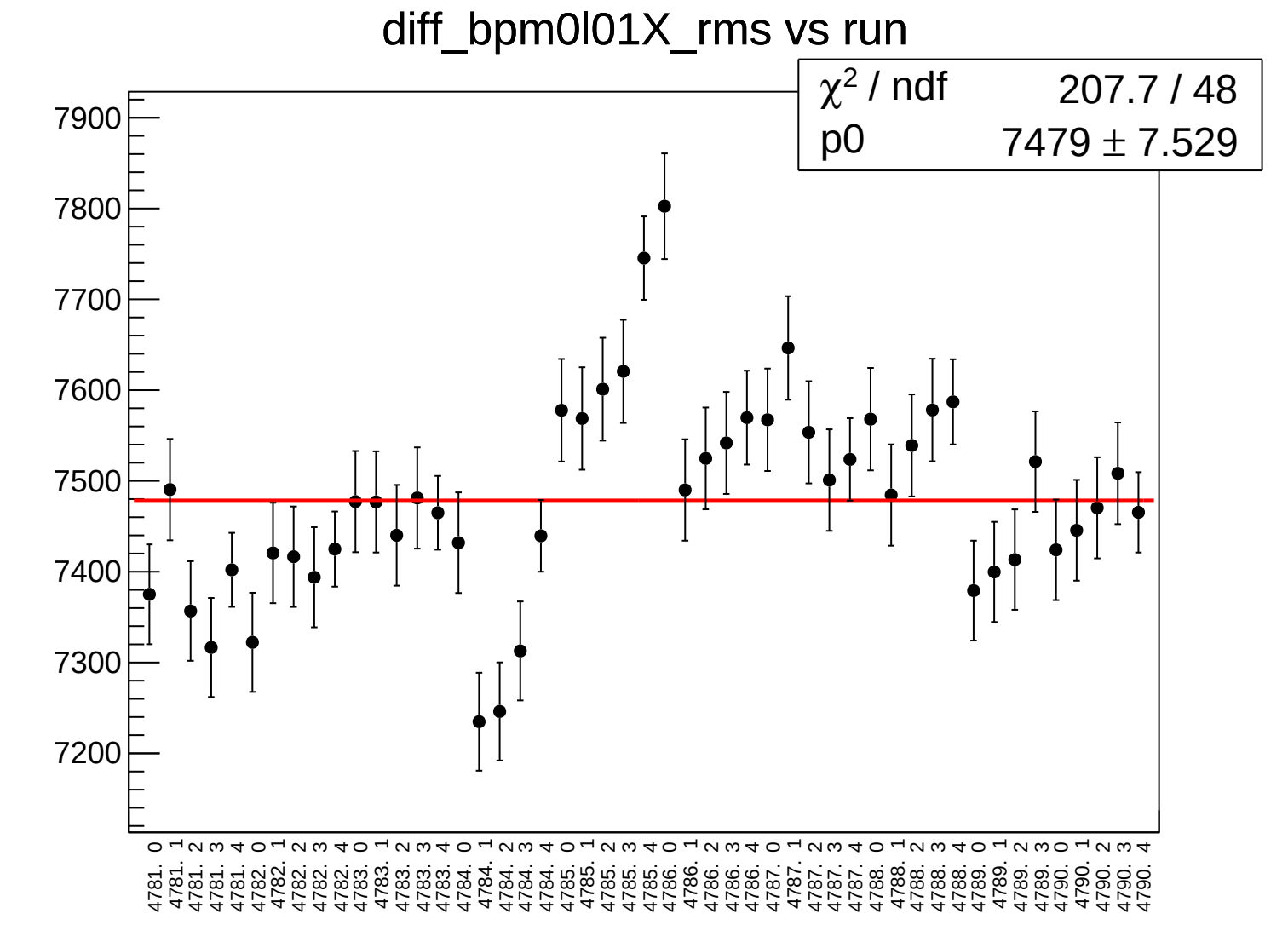

diff_bpm16X_rms vs run
χ² / ndf 259 / 48
p0 3382 ± 3.404
3550
3500
3450
3400
3350
3300
3250
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

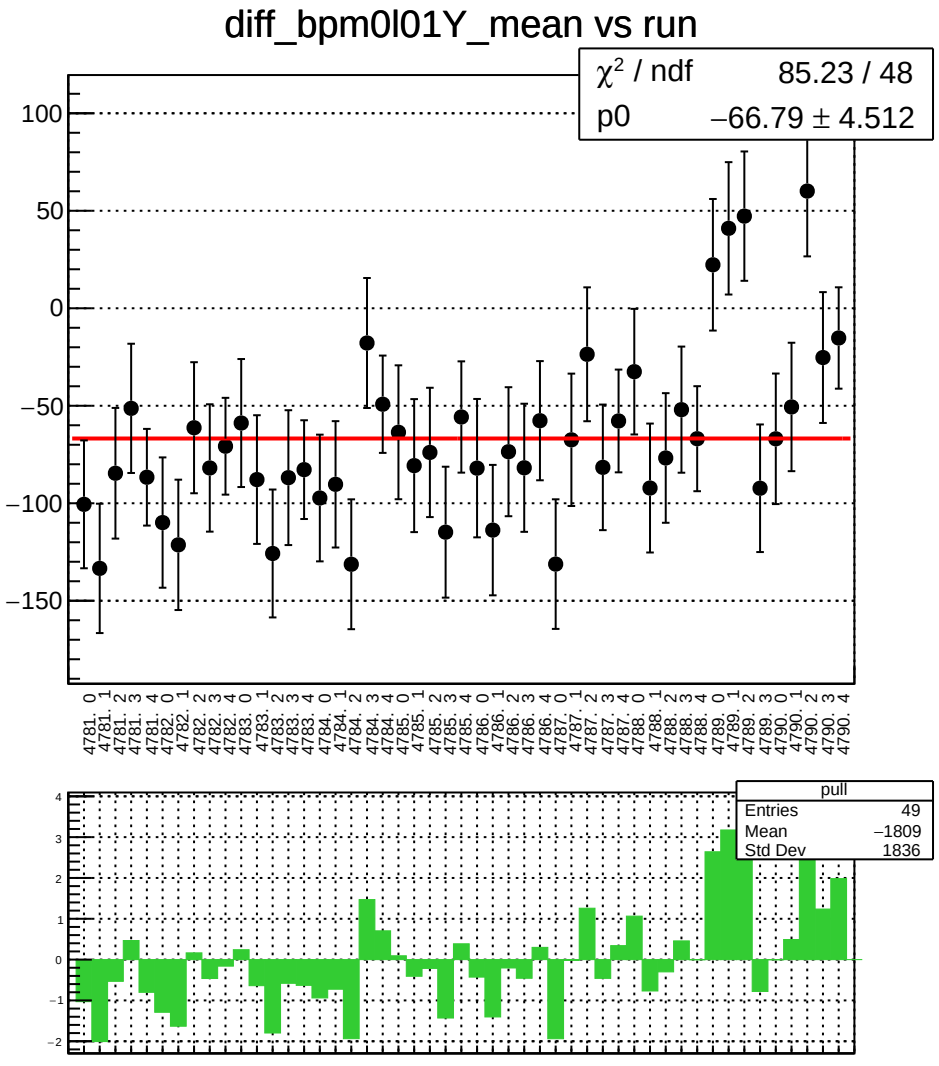

diff_bpm16Y_mean vs run
χ^2 / ndf 49.64 / 48
p0 1.72 ± 1.815
pull
Entries 49
Mean 47.84
Std Dev 29.02

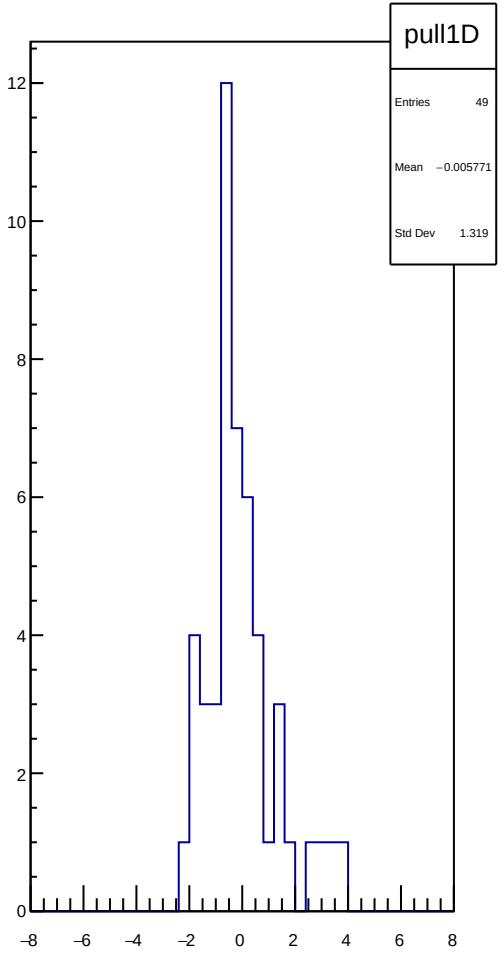

pull1D
Entries 49
Mean −0.005361
Std Dev 1.006

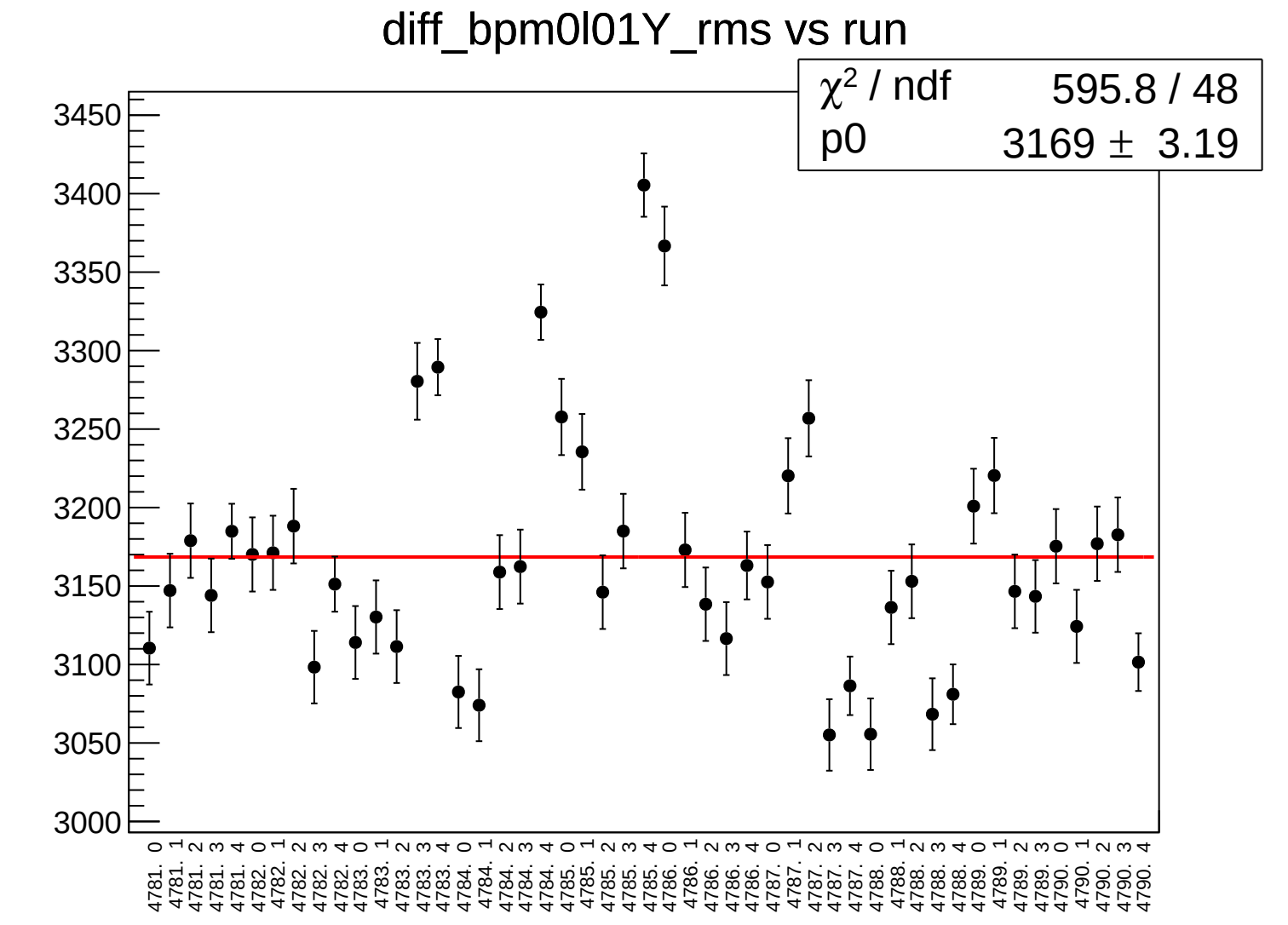

diff_bpm16Y_rms vs run
χ² / ndf 1216 / 48
p0 1274 ± 1.283
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

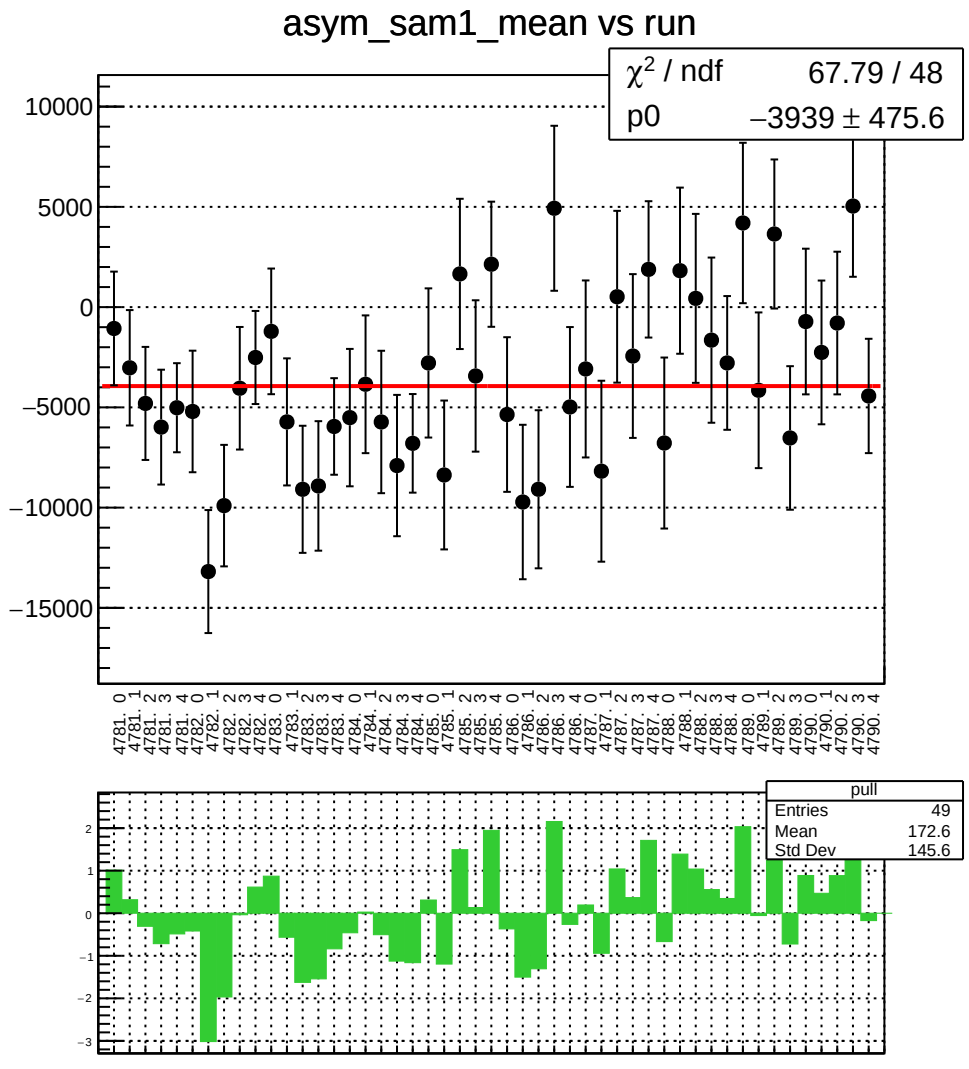

diff_bpm0l01X_mean vs run
χ² / ndf 57.39 / 48
p0 −71.9 ± 10.65
200
100
0
−100
−200
−300
−400
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 531.6
Std Dev 501.9
2
1
0
−1
−2
−3
pull1D
Entries 49
Mean 0.01056
Std Dev 1.082
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

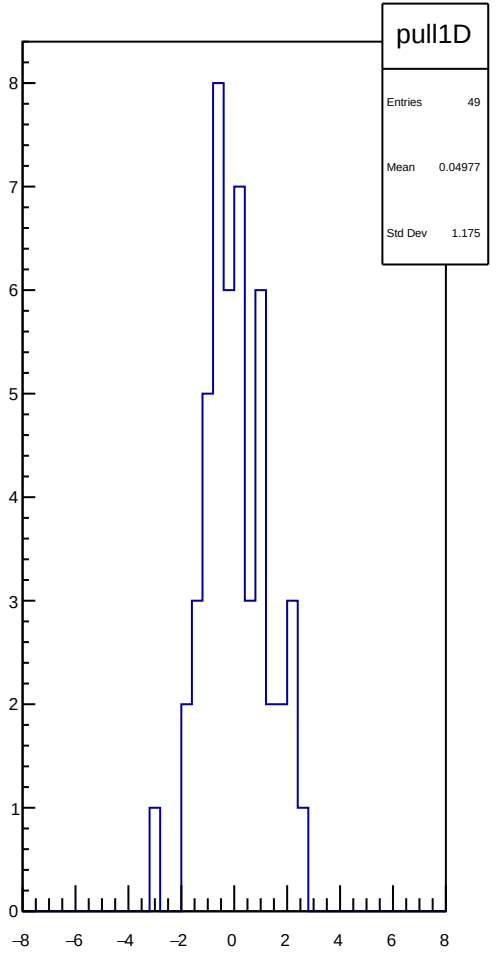

diff_bpm0l01X_rms vs run
χ² / ndf 207.7 / 48
p0 7479 ± 7.529
7900
7800
7700
7600
7500
7400
7300
7200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

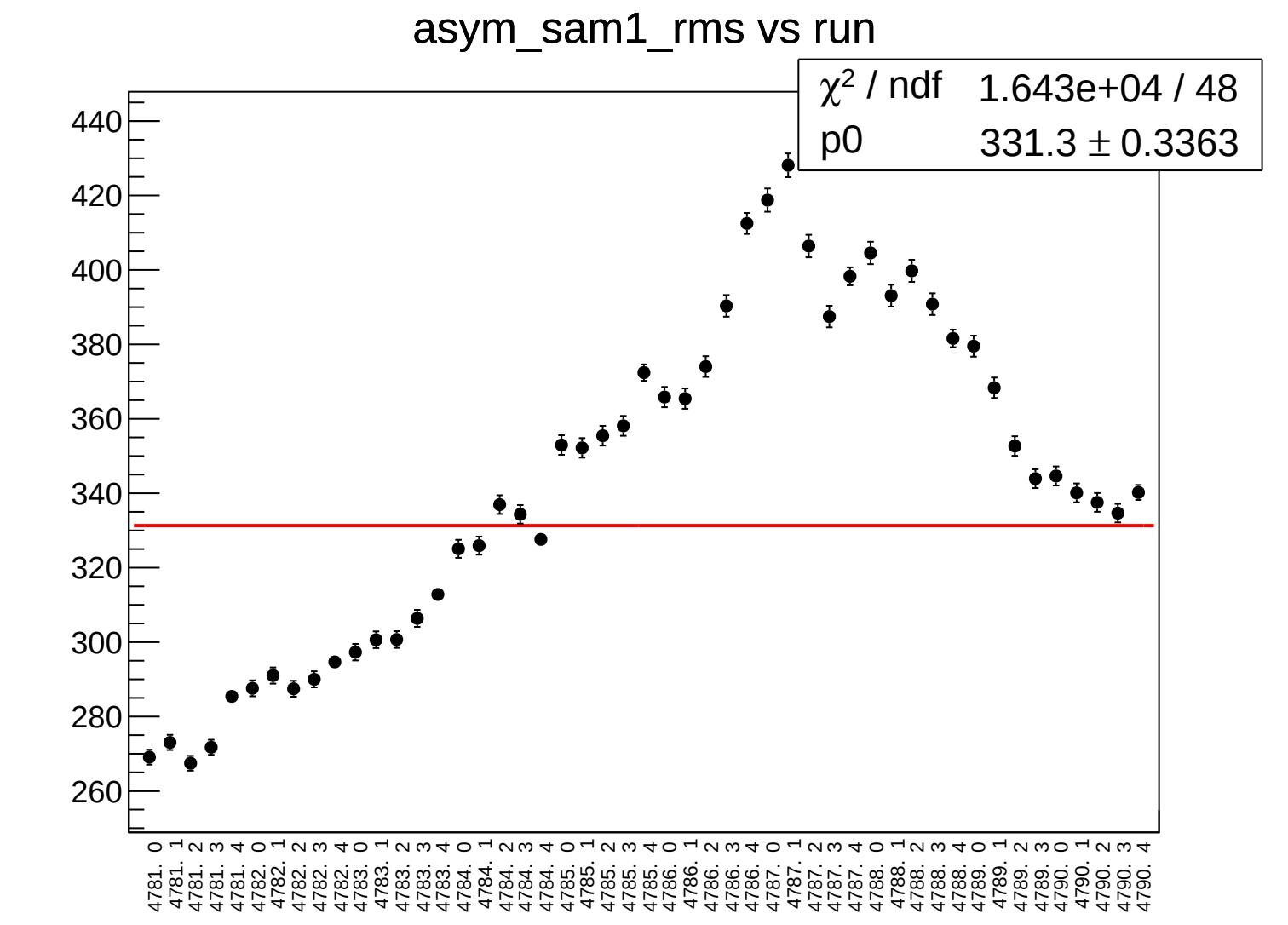

diff_bpm0l01Y_mean vs run
χ² / ndf 85.23 / 48
p0 −66.79 ± 4.512
pull
Entries 49
Mean −1809
Std Dev 1836

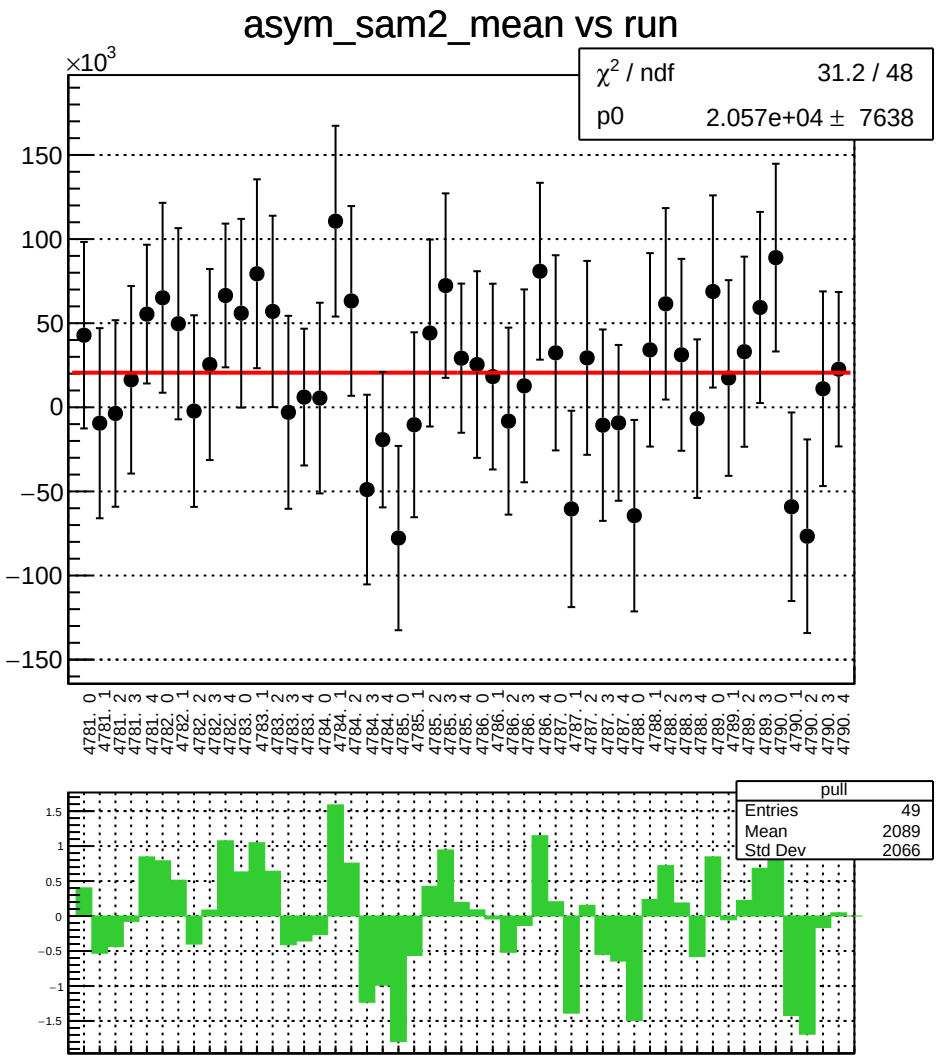

pull1D
Entries 49
Mean −0.005771
Std Dev 1.319

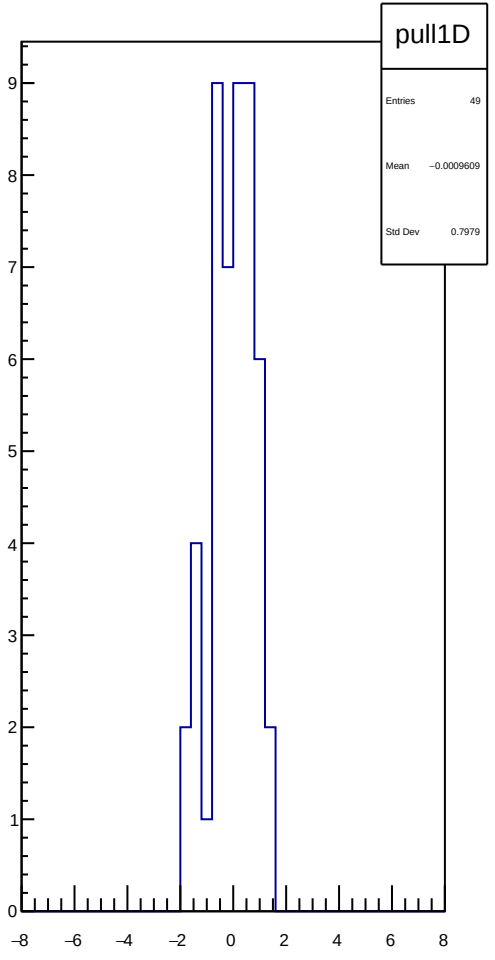

diff_bpm0l01Y_rms vs run
χ² / ndf 595.8 / 48
p0 3169 ± 3.19
3450
3400
3350
3300
3250
3200
3150
3100
3050
3000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

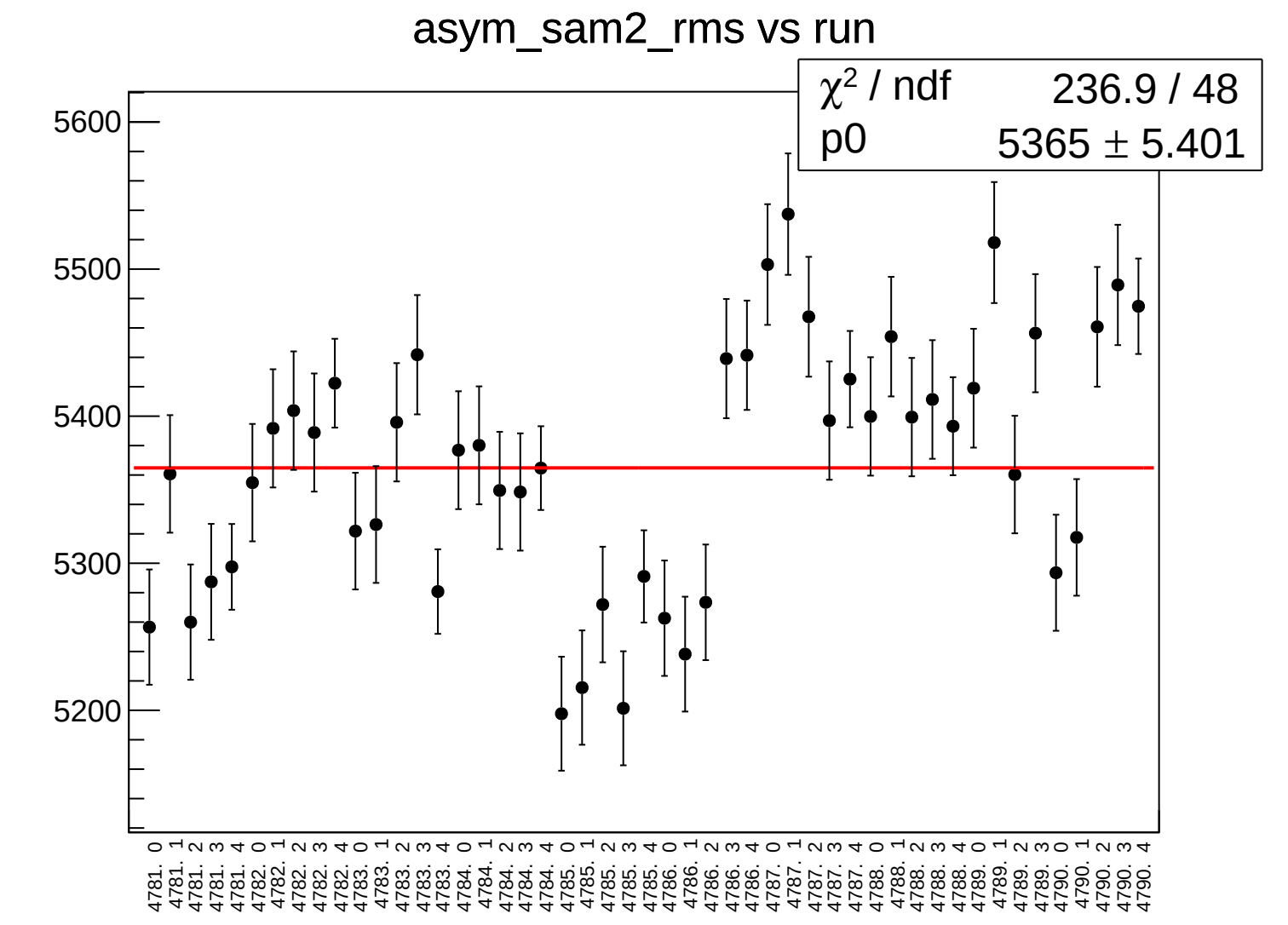

asym_sam1_mean vs run
χ² / ndf 67.79 / 48
p0 −3939 ± 475.6
10000
5000
0
−5000
−10000
−15000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 172.6
Std Dev 145.6
2
1
0
−1
−2
−3

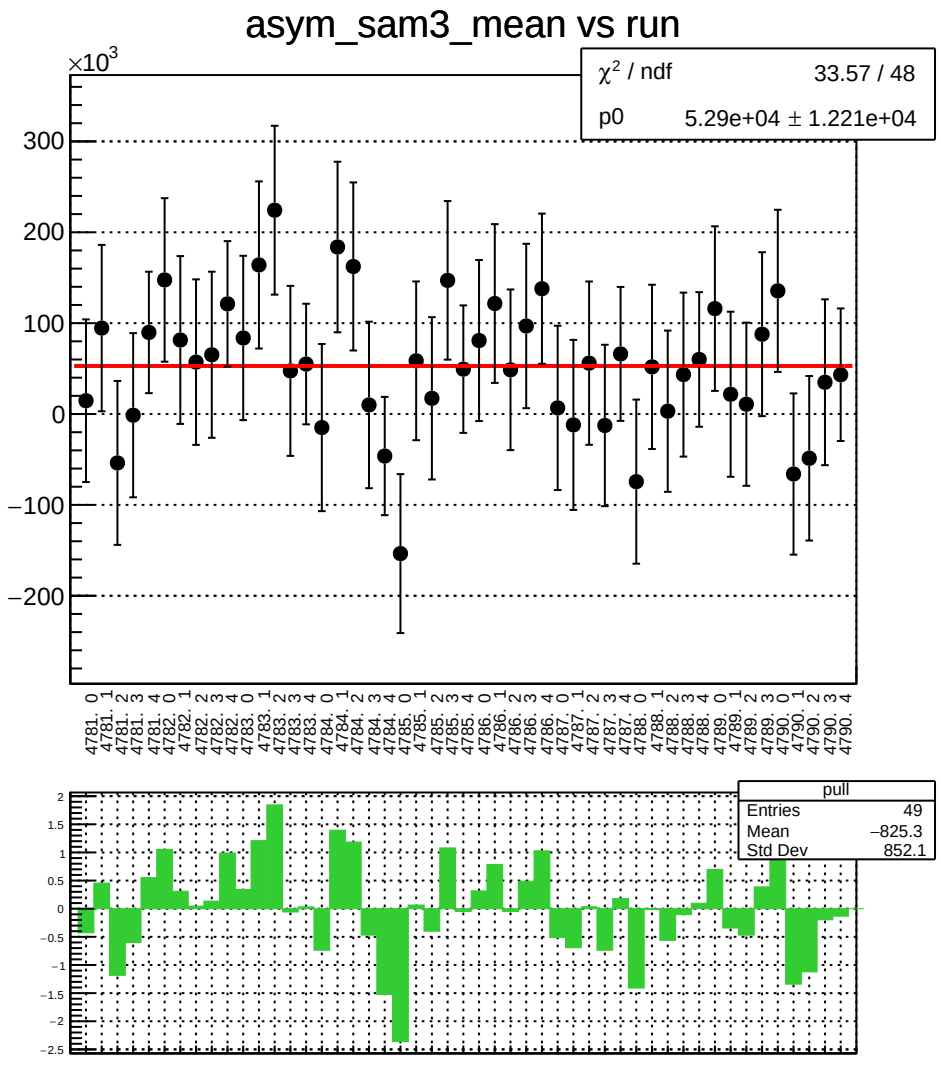

pull1D
Entries 49
Mean 0.04977
Std Dev 1.175
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

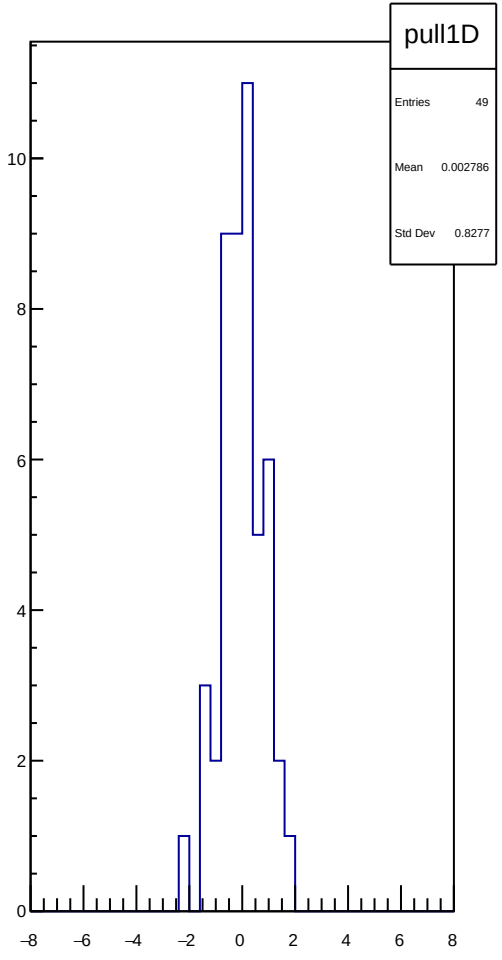

asym_sam1_rms vs run
χ^2 / ndf 1.643e+04 / 48
p0 331.3 ± 0.3363
440
420
400
380
360
340
320
300
280
260
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

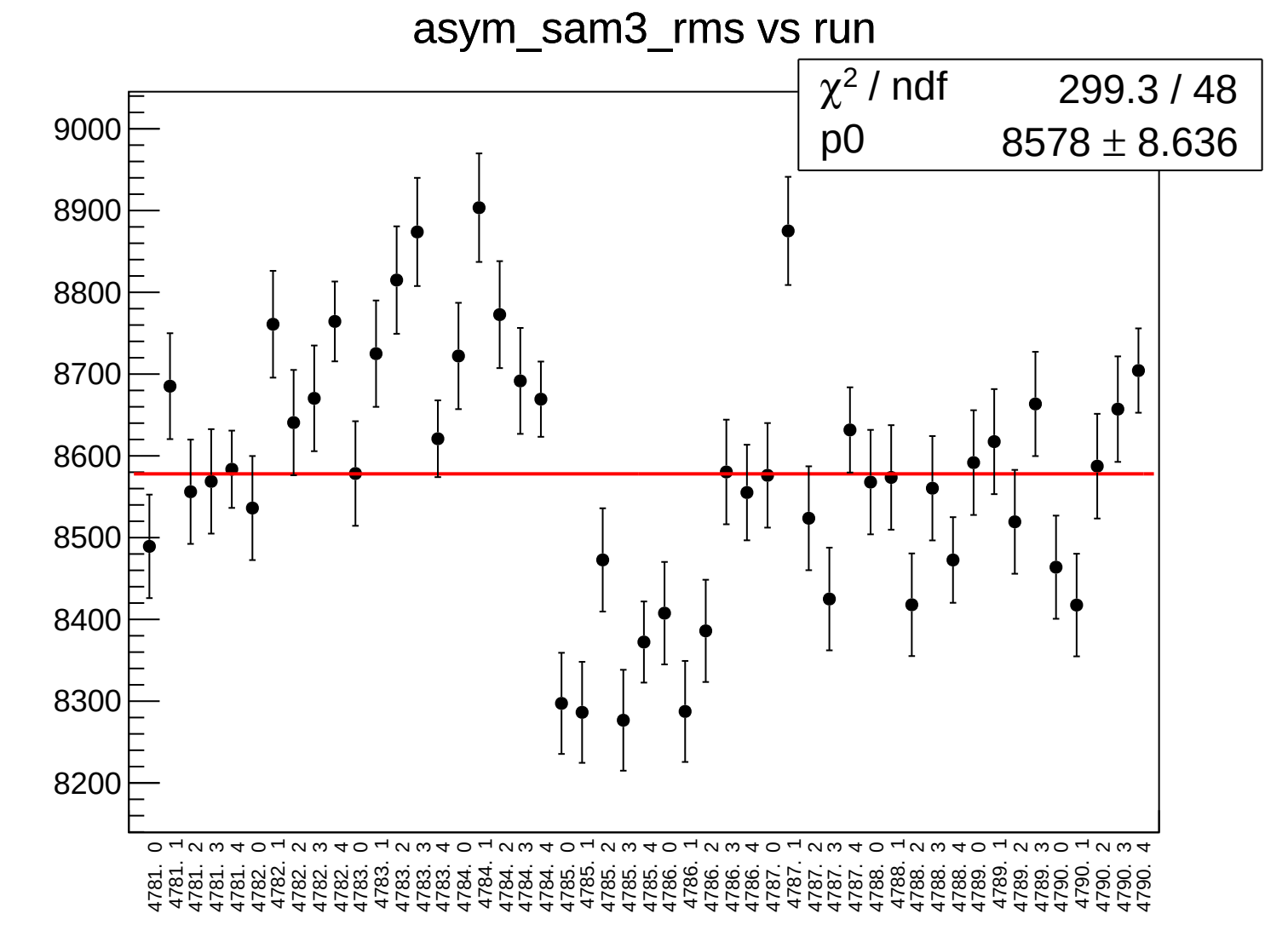

asym_sam2_mean vs run
×10^3
χ² / ndf 31.2 / 48
p0 2.057e+04 ± 7638
150
100
50
0
−50
−100
−150
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 2089
Std Dev 2066
1.5
1
0.5
0
−0.5
−1
−1.5

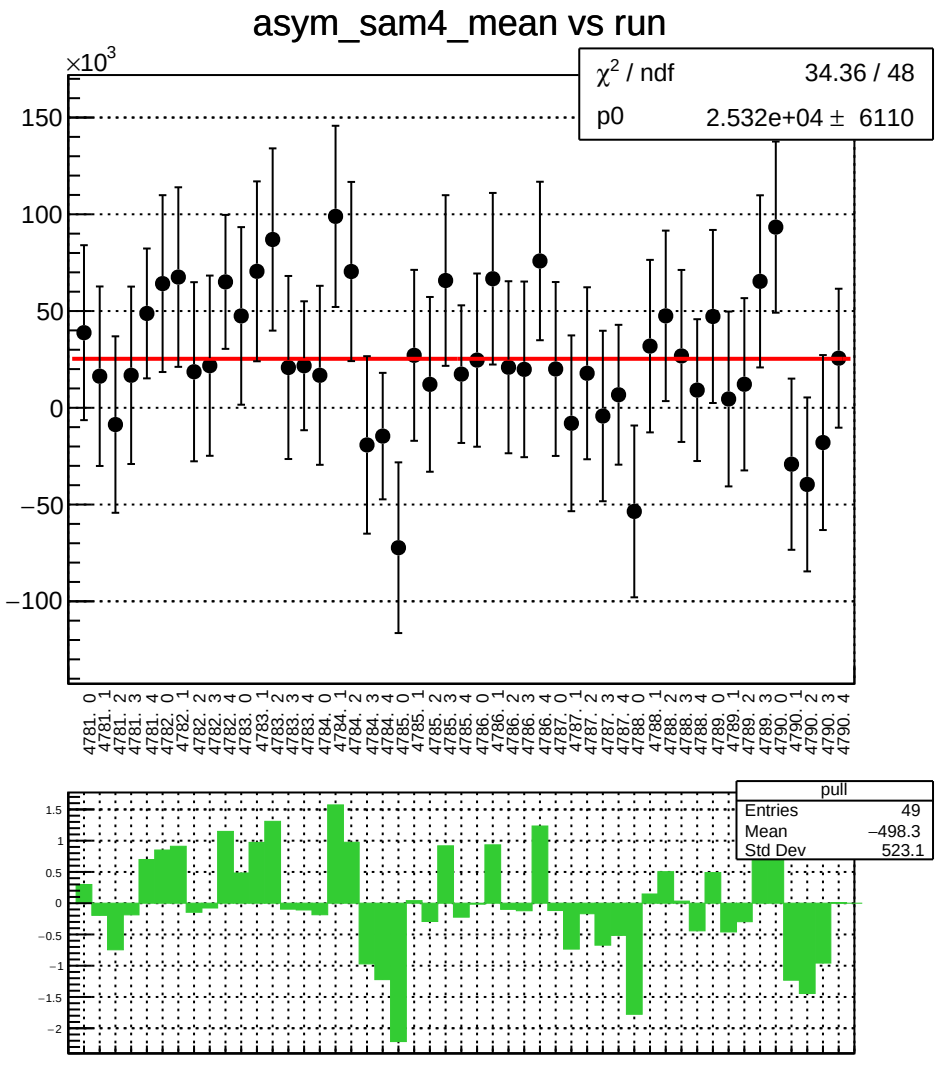

pull1D
Entries 49
Mean −0.0009609
Std Dev 0.7979
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

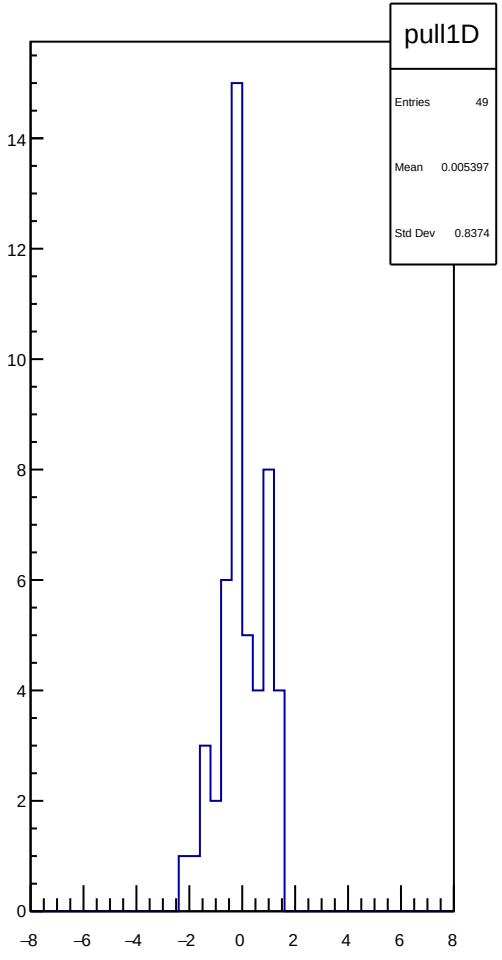

asym_sam2_rms vs run
χ² / ndf 236.9 / 48
p0 5365 ± 5.401
5600
5500
5400
5300
5200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

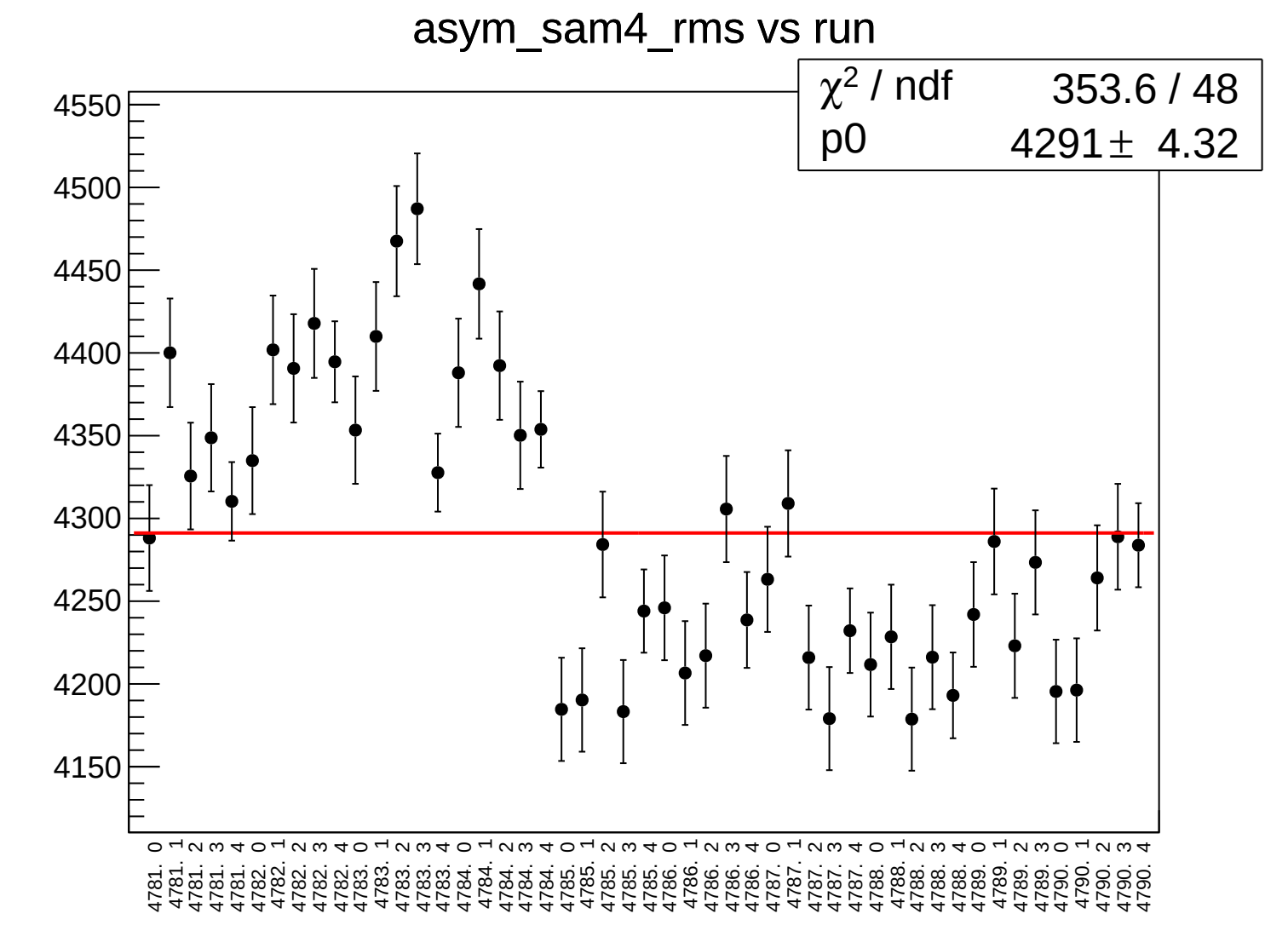

asym_sam3_mean vs run
×10^3
χ² / ndf 33.57 / 48
p0 5.29e+04 ± 1.221e+04
300
200
100
0
−100
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −825.3
Std Dev 852.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

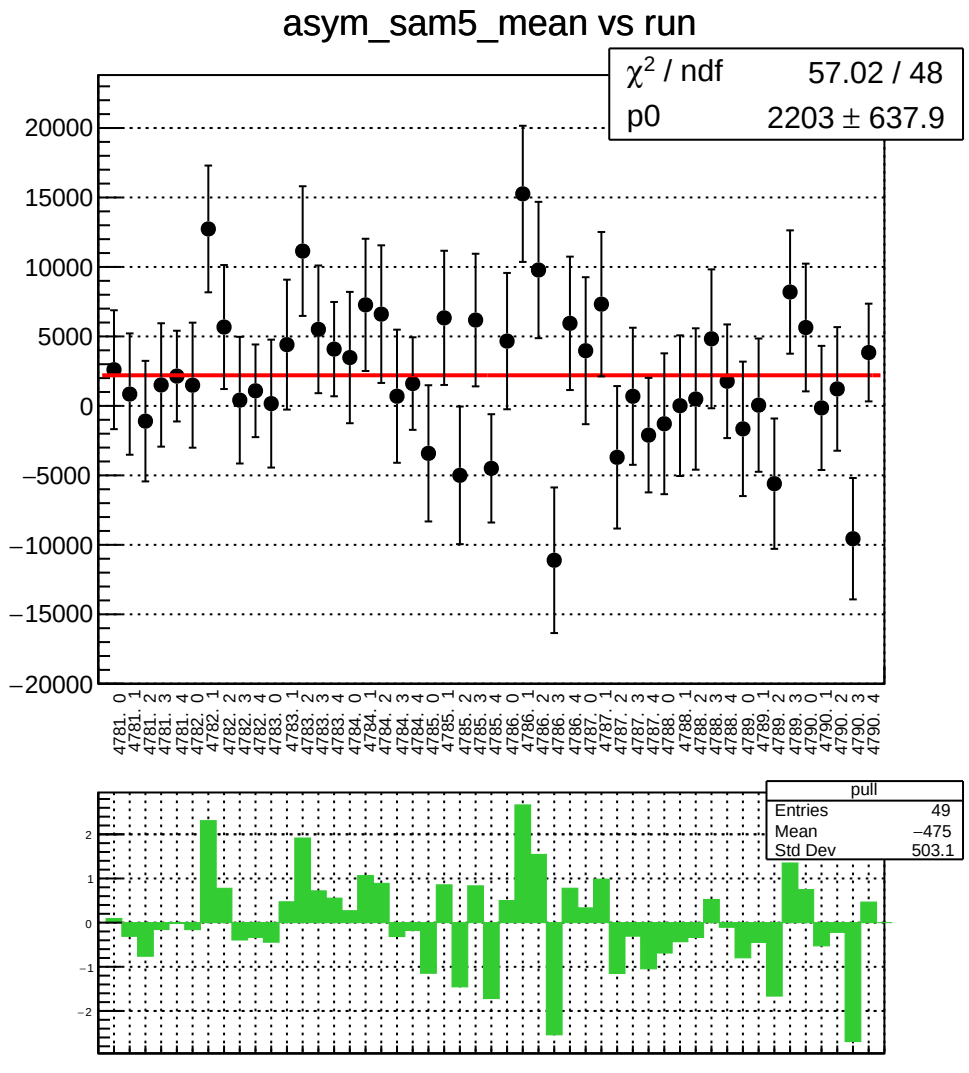

pull1D
Entries 49
Mean 0.002786
Std Dev 0.8277
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

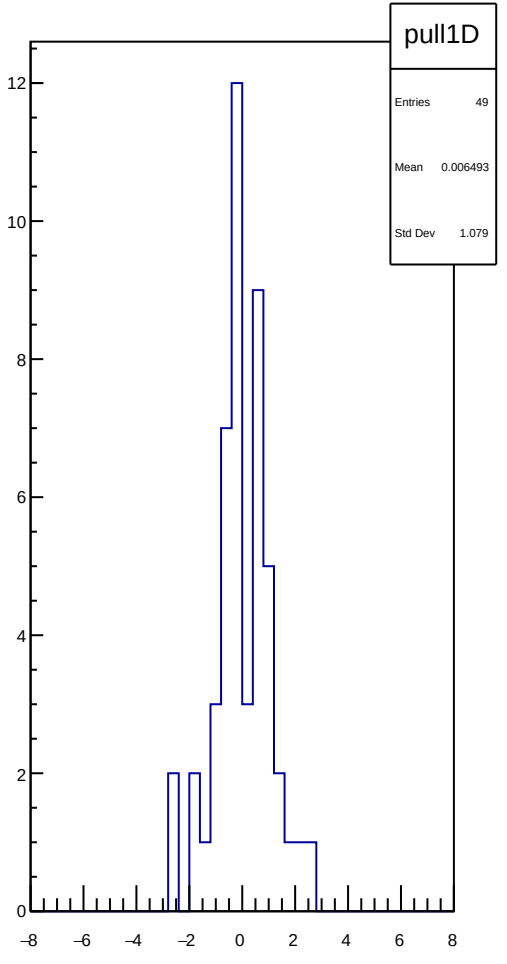

asym_sam3_rms vs run
χ² / ndf 299.3 / 48
p0 8578 ± 8.636
9000
8900
8800
8700
8600
8500
8400
8300
8200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

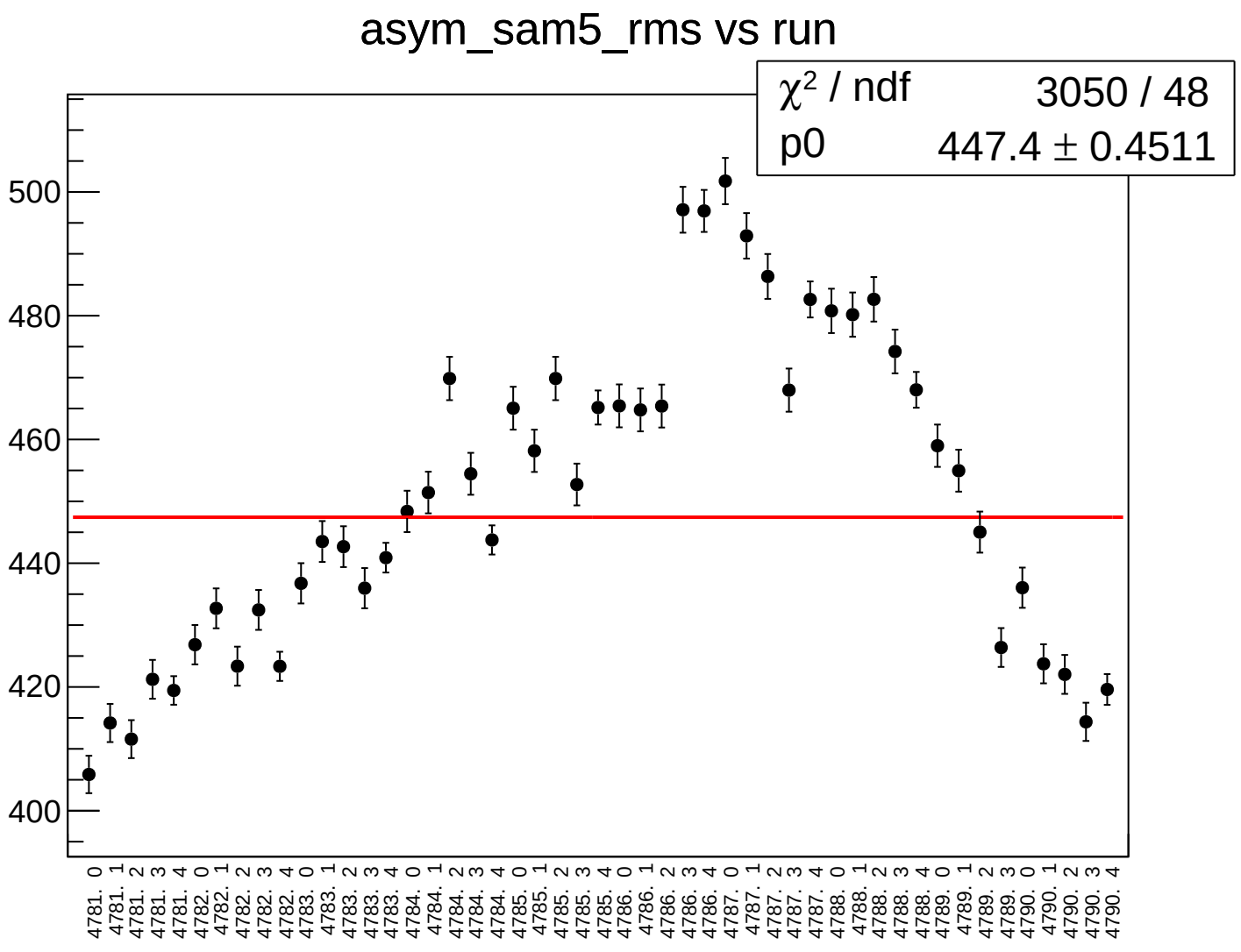

asym_sam4_mean vs run
×10^3
χ² / ndf 34.36 / 48
p0 2.532e+04 ± 6110
150
100
50
0
−50
−100
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −498.3
Std Dev 523.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

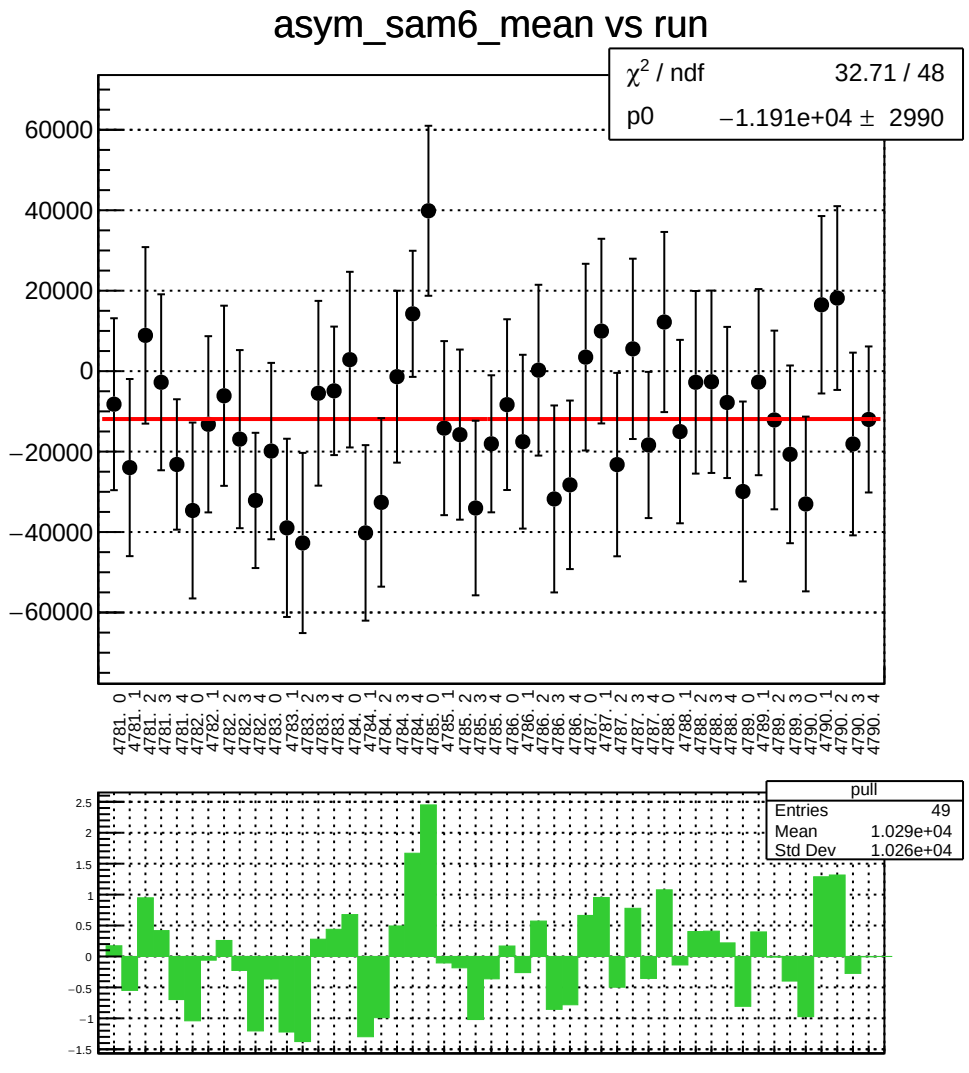

pull1D
Entries 49
Mean 0.005397
Std Dev 0.8374
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

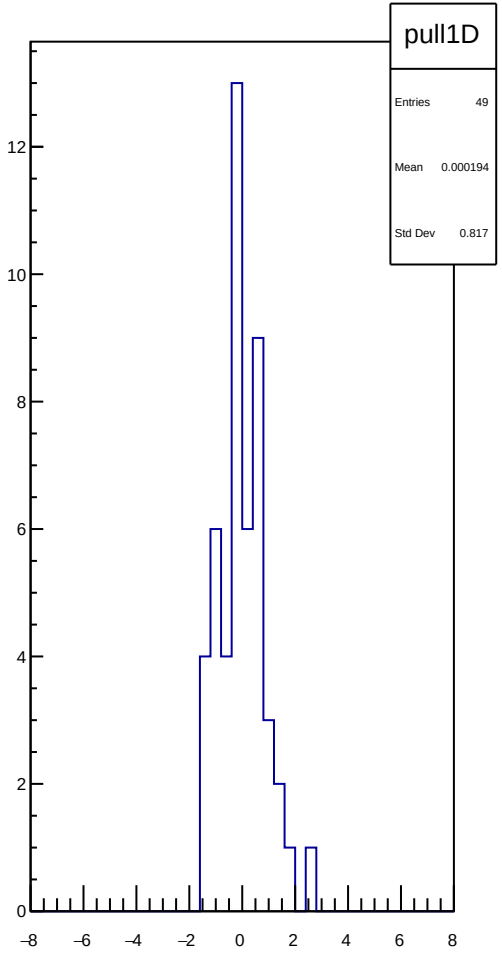

asym_sam4_rms vs run
χ² / ndf 353.6 / 48
p0 4291 ± 4.32
4550
4500
4450
4400
4350
4300
4250
4200
4150
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

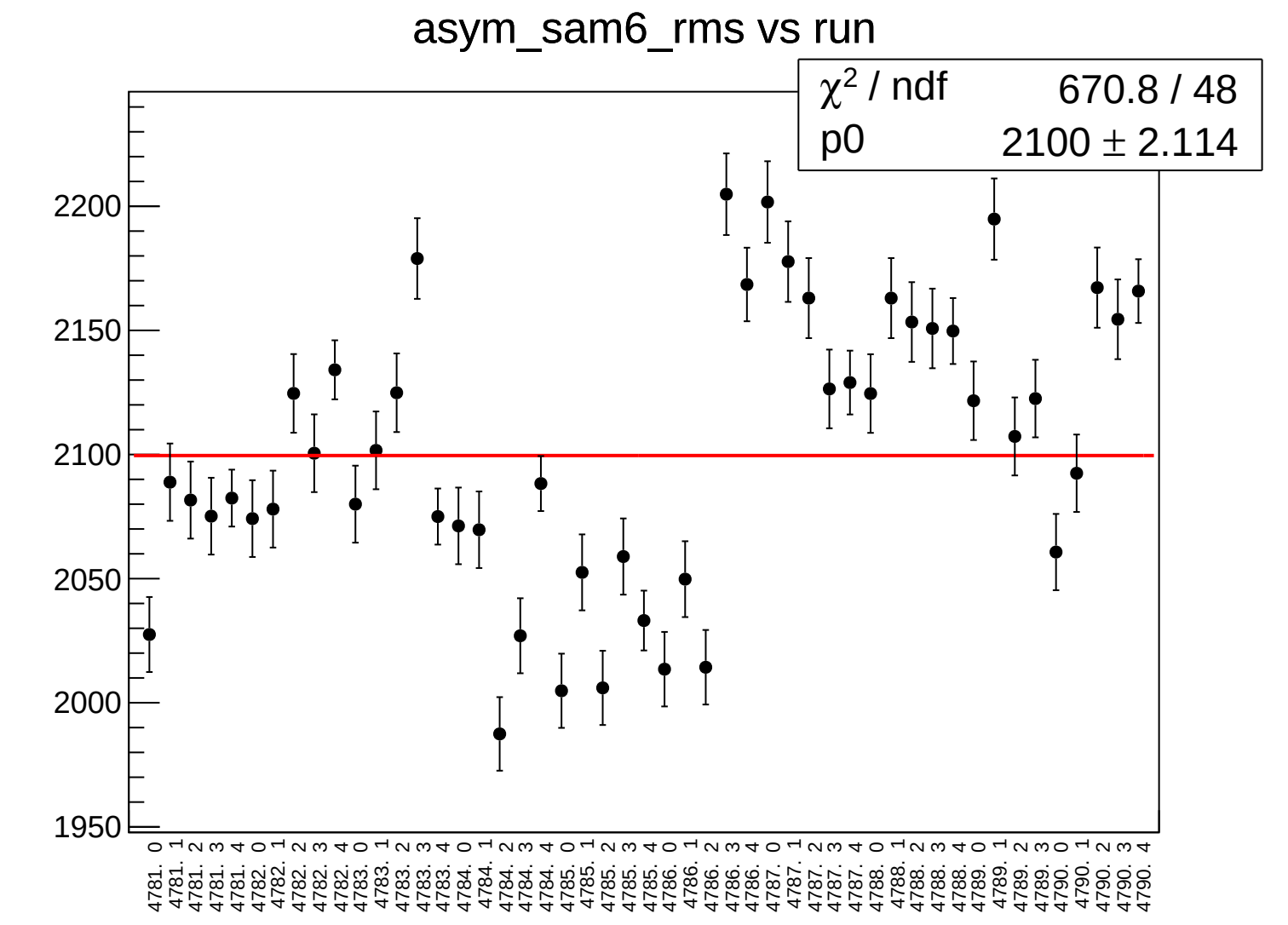

asym_sam5_mean vs run
χ² / ndf 57.02 / 48
p0 2203 ± 637.9
pull
Entries 49
Mean −475
Std Dev 503.1

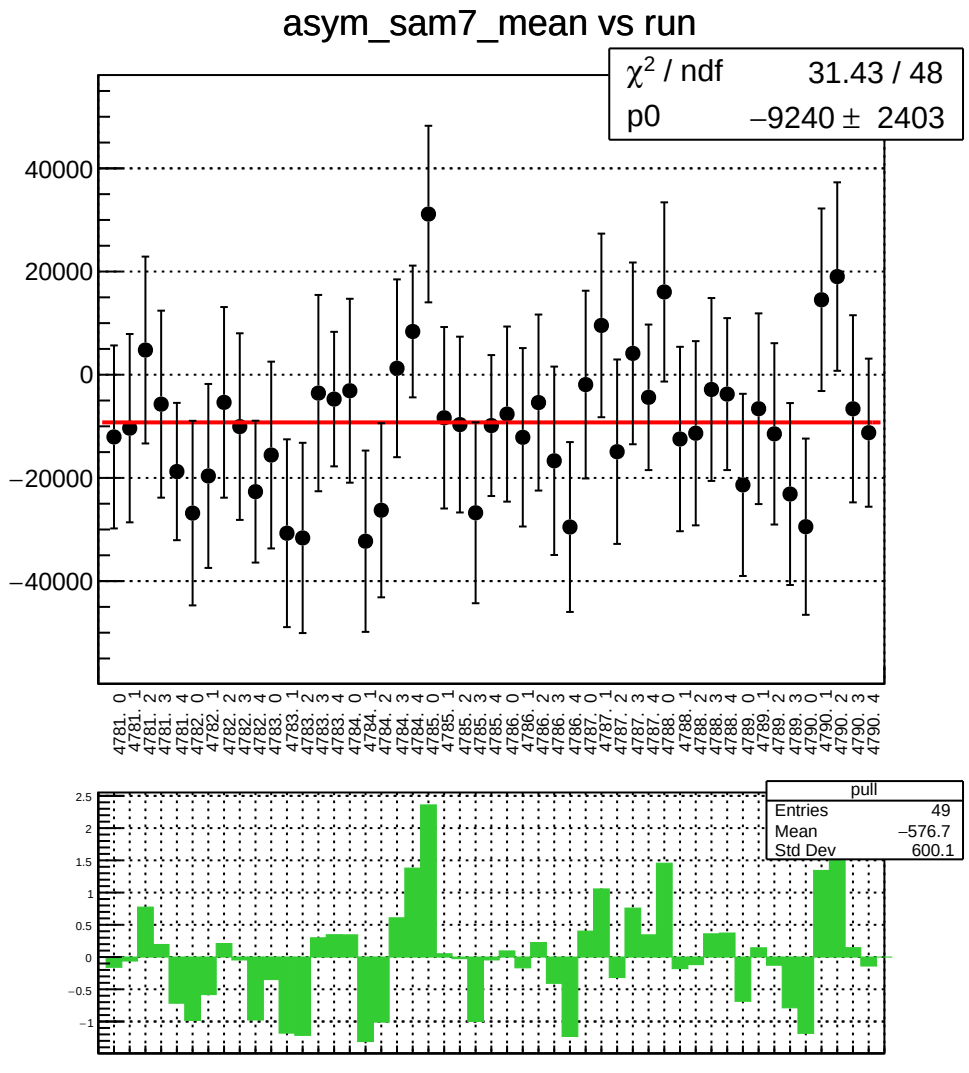

pull1D
Entries 49
Mean 0.006493
Std Dev 1.079

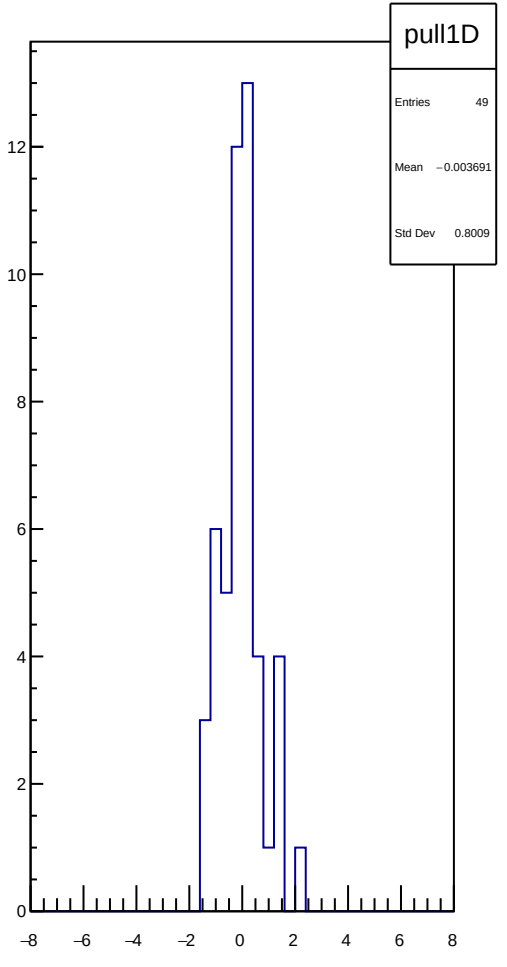

asym_sam5_rms vs run
χ² / ndf 3050 / 48
p0 447.4 ± 0.4511
500
480
460
440
420
400
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

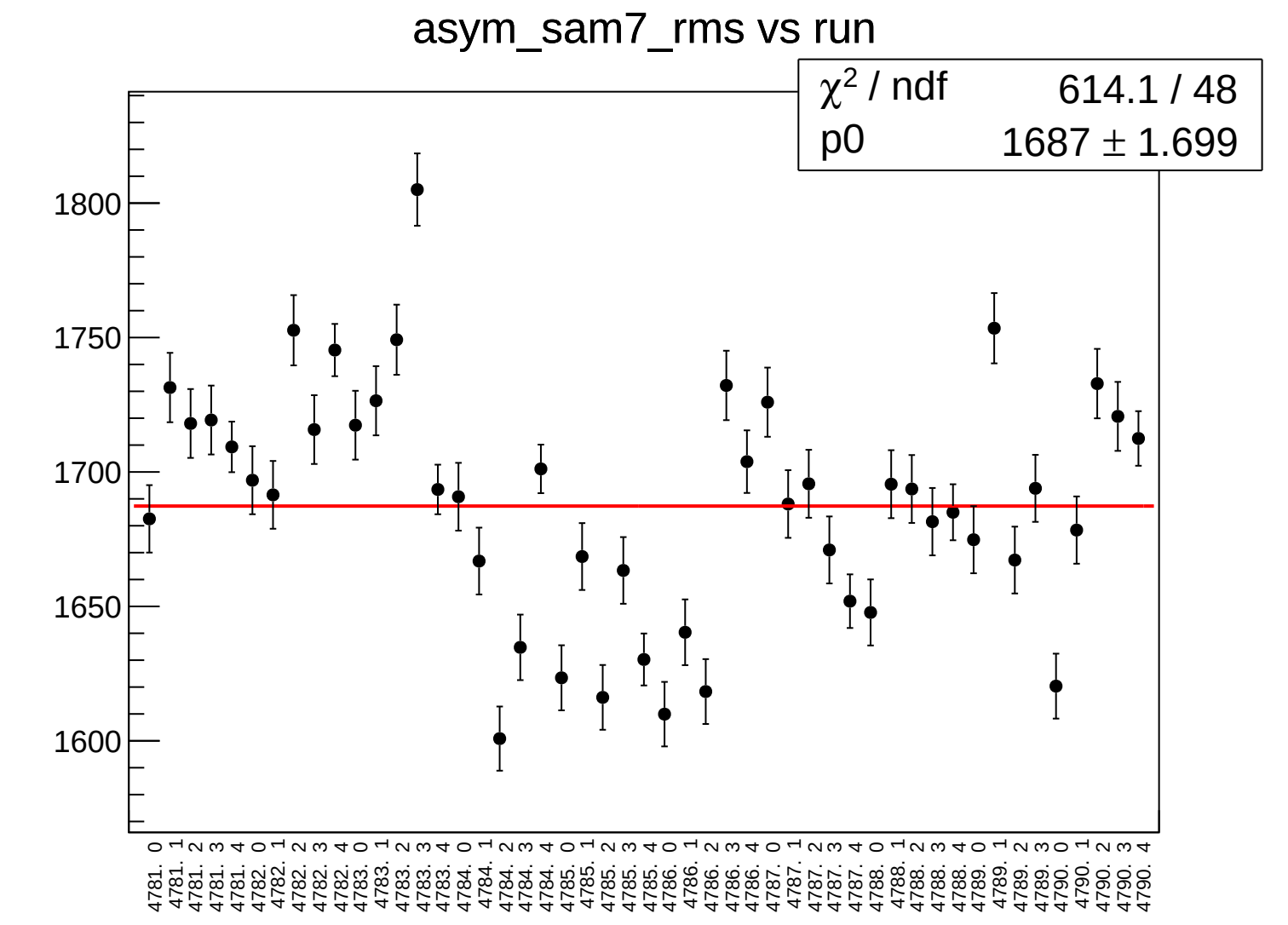

asym_sam6_mean vs run
χ² / ndf 32.71 / 48
p0 −1.191e+04 ± 2990
60000
40000
20000
0
−20000
−40000
−60000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 1.029e+04
Std Dev 1.026e+04
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

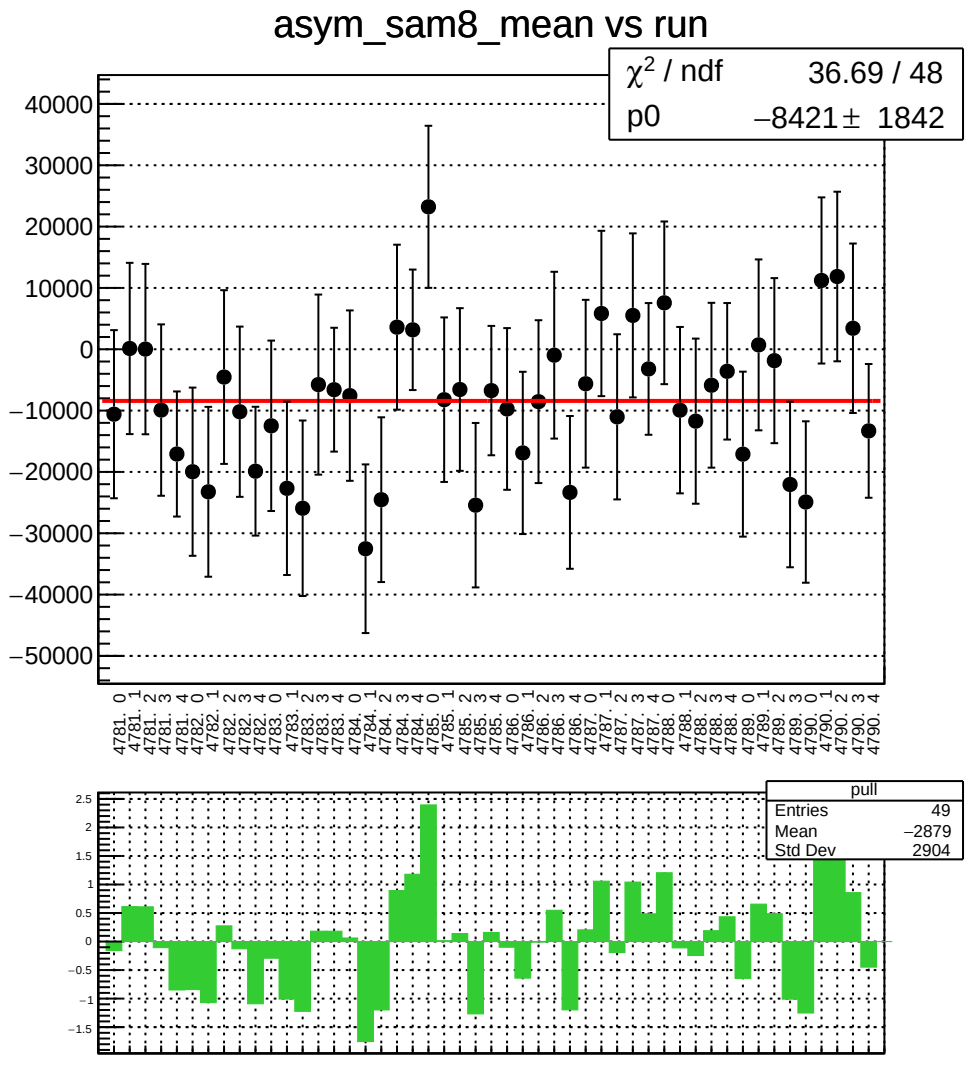

pull1D
Entries 49
Mean 0.000194
Std Dev 0.817
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

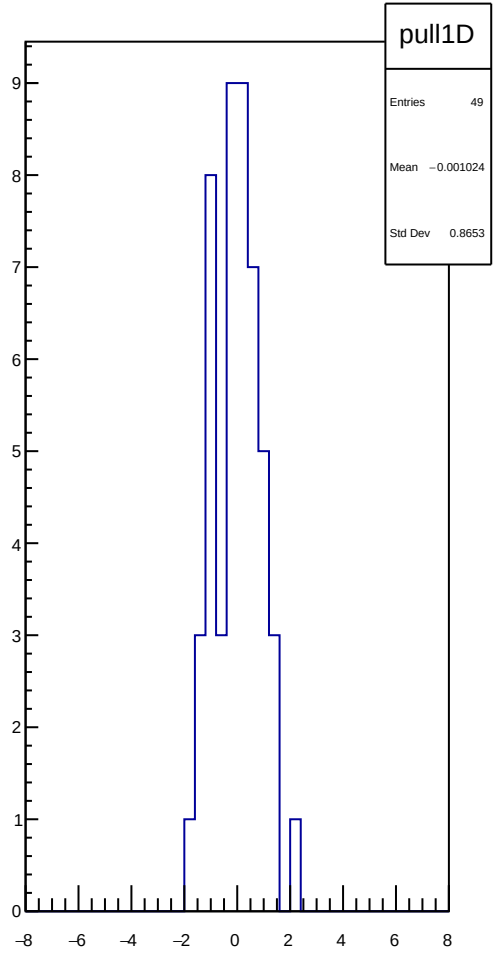

asym_sam6_rms vs run
χ² / ndf 670.8 / 48
p0 2100 ± 2.114
2200
2150
2100
2050
2000
1950
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

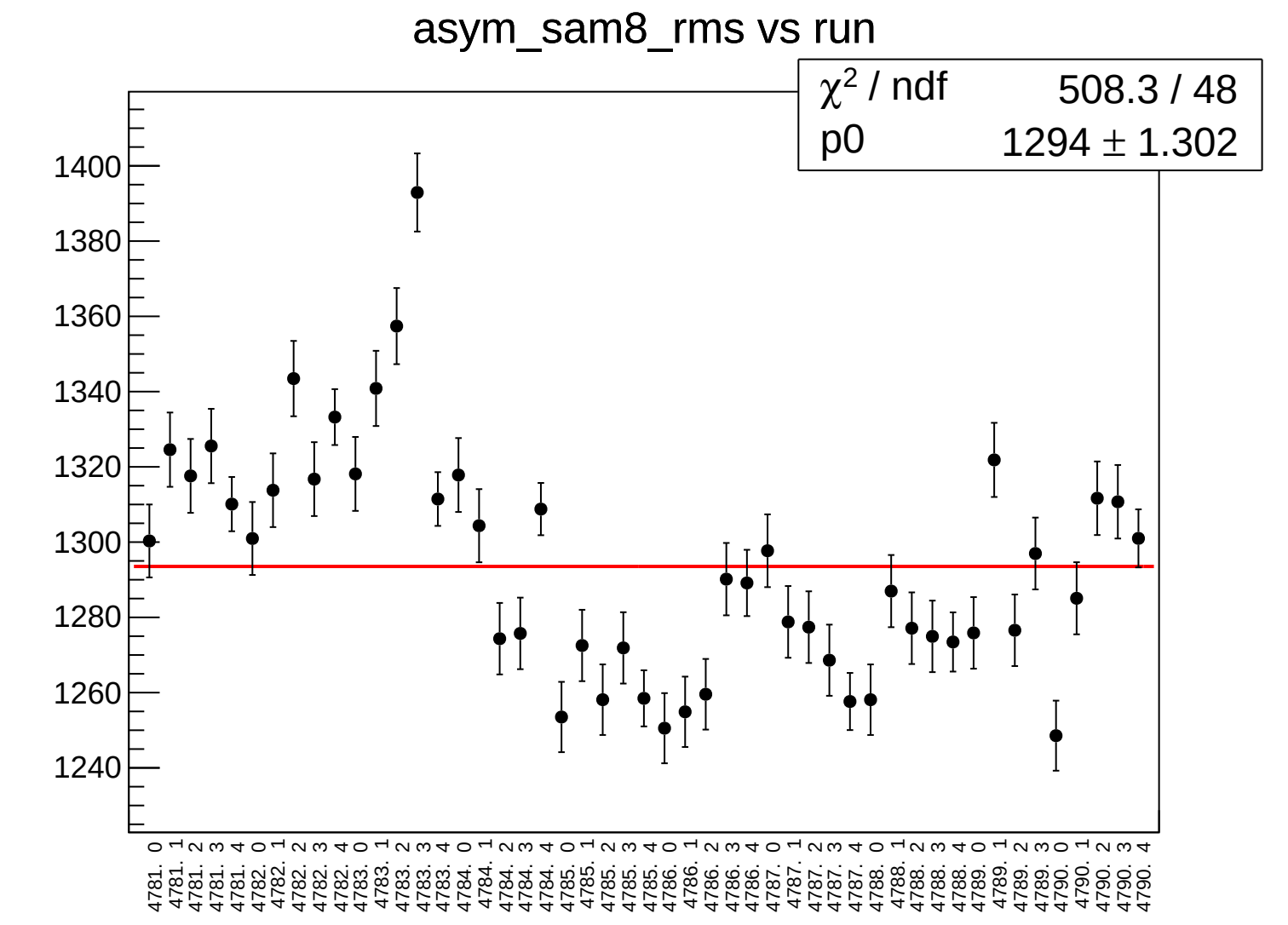

asym_sam7_mean vs run
χ² / ndf 31.43 / 48
p0 −9240 ± 2403
40000
20000
0
−20000
−40000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −576.7
Std Dev 600.1
2.5
2
1.5
1
0.5
0
−0.5
−1

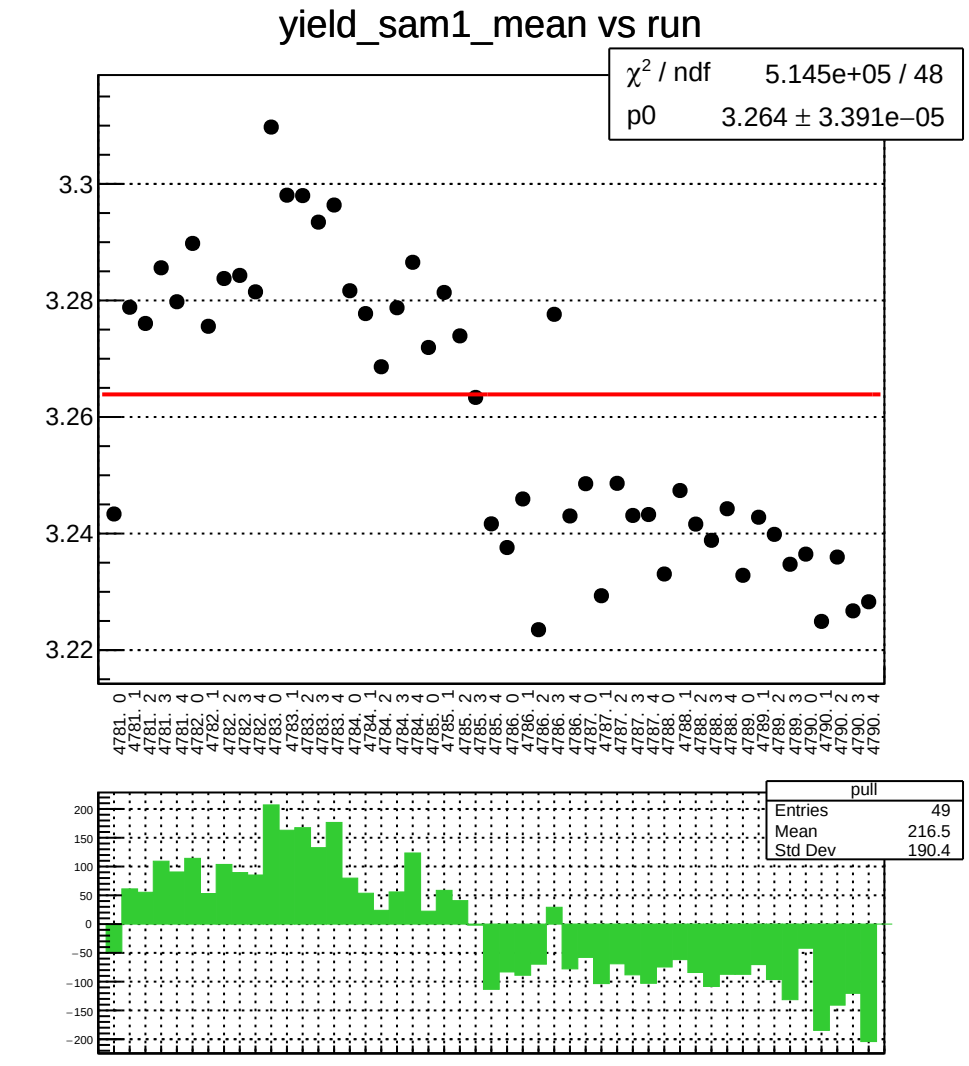

pull1D
Entries 49
Mean −0.003691
Std Dev 0.8009
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

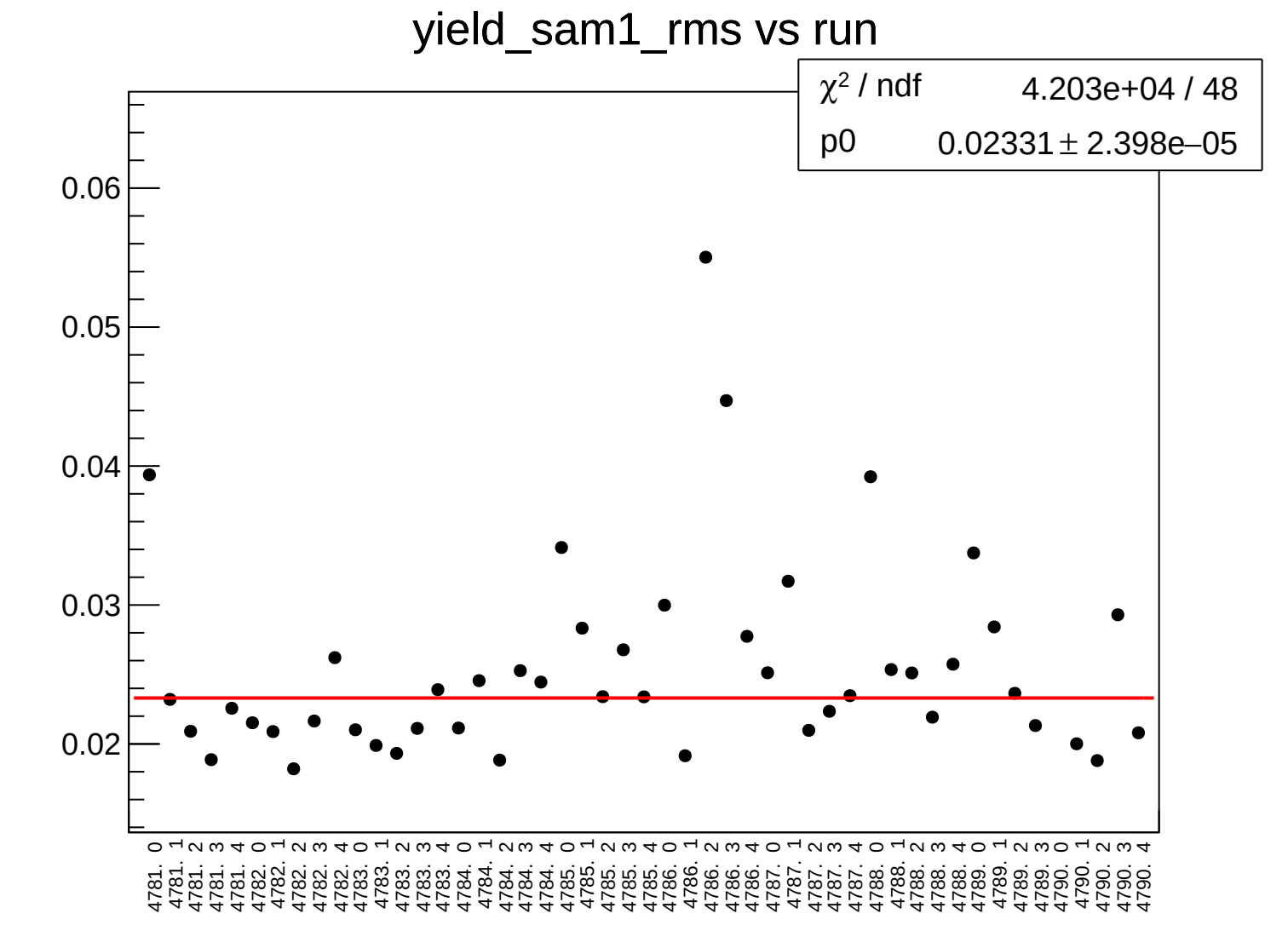

asym_sam7_rms vs run
χ² / ndf 614.1 / 48
p0 1687 ± 1.699
1800
1750
1700
1650
1600
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

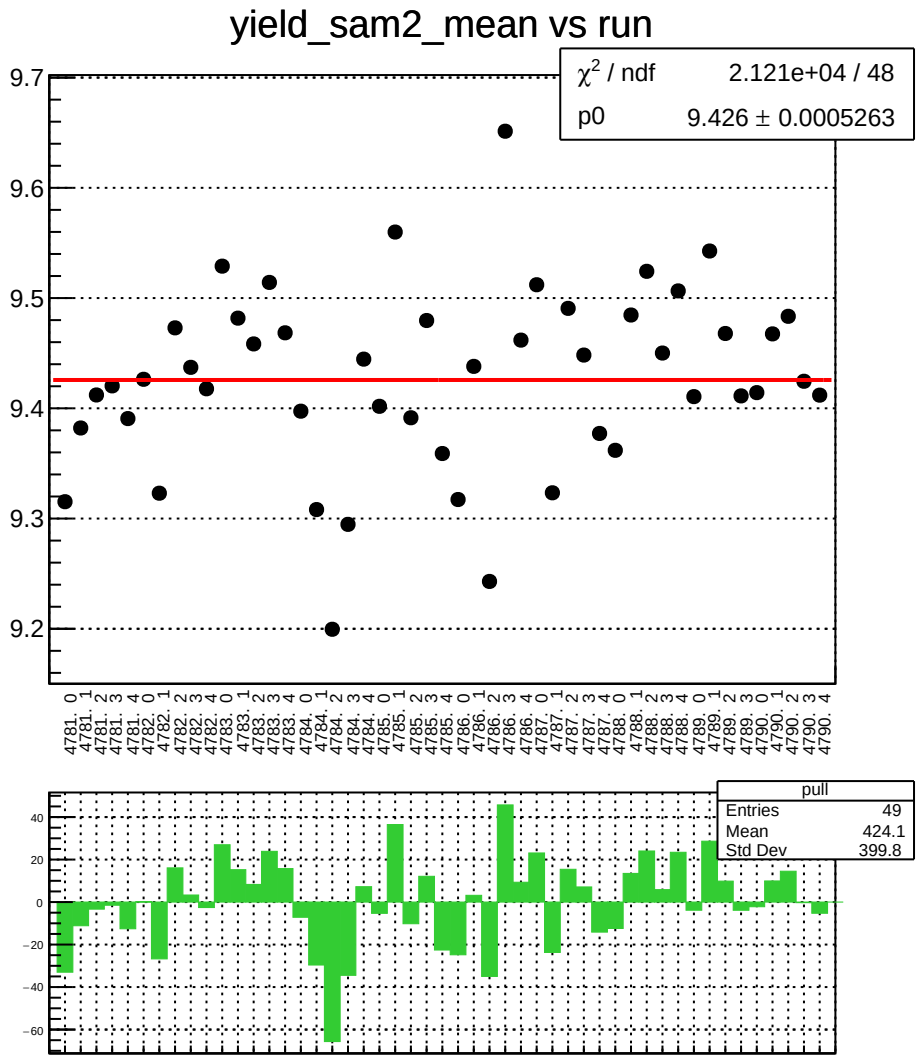

asym_sam8_mean vs run
χ² / ndf 36.69 / 48
p0 −8421 ± 1842
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −2879
Std Dev 2904
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

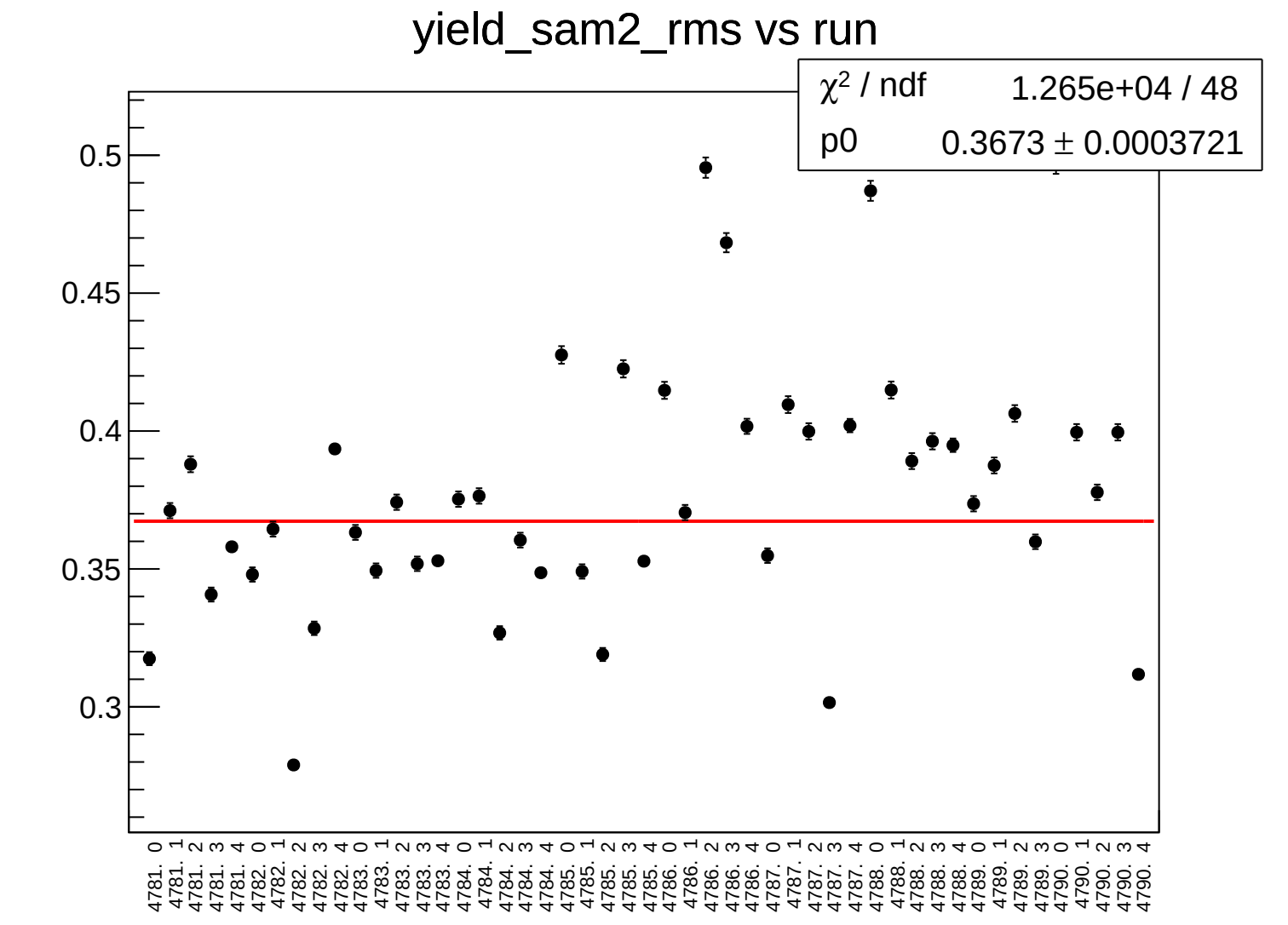

pull1D
Entries 49
Mean −0.001024
Std Dev 0.8653
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

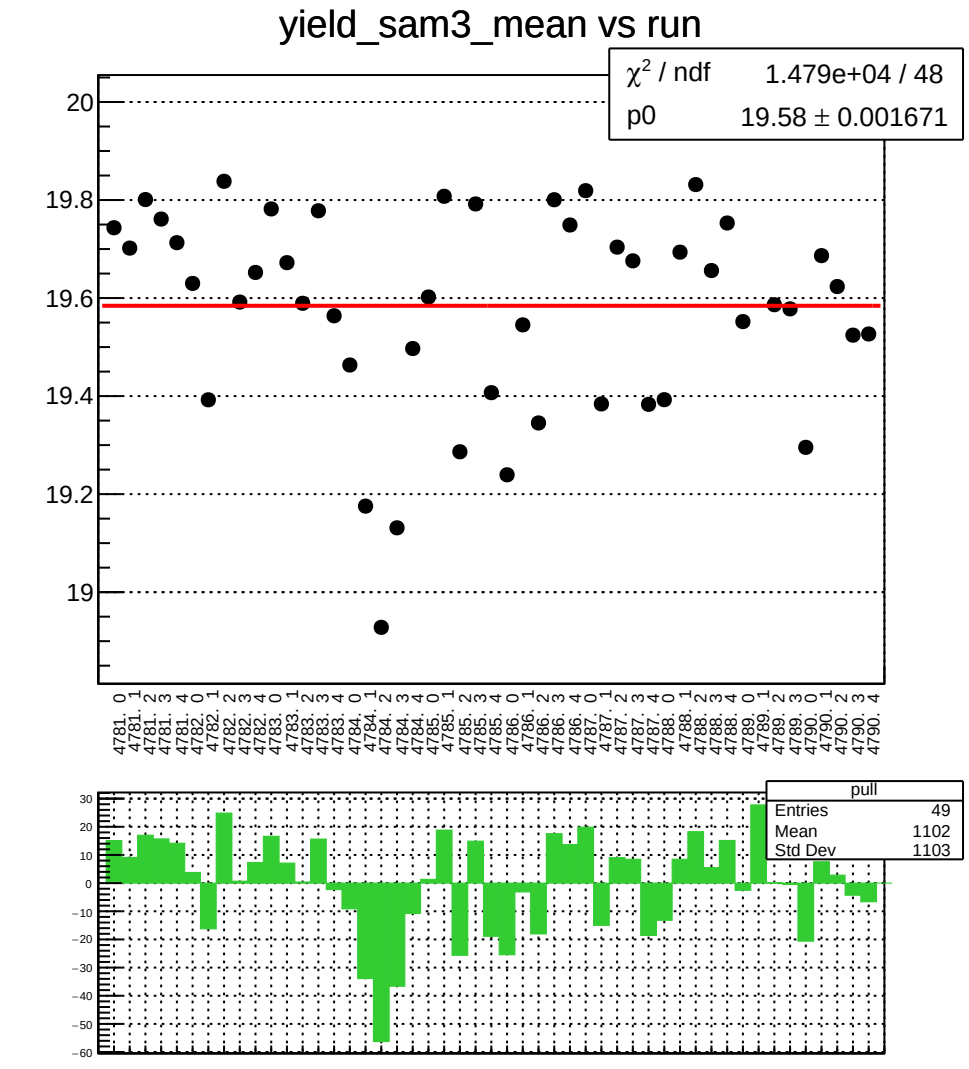

asym_sam8_rms vs run
χ² / ndf 508.3 / 48
p0 1294 ± 1.302
1400
1380
1360
1340
1320
1300
1280
1260
1240
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

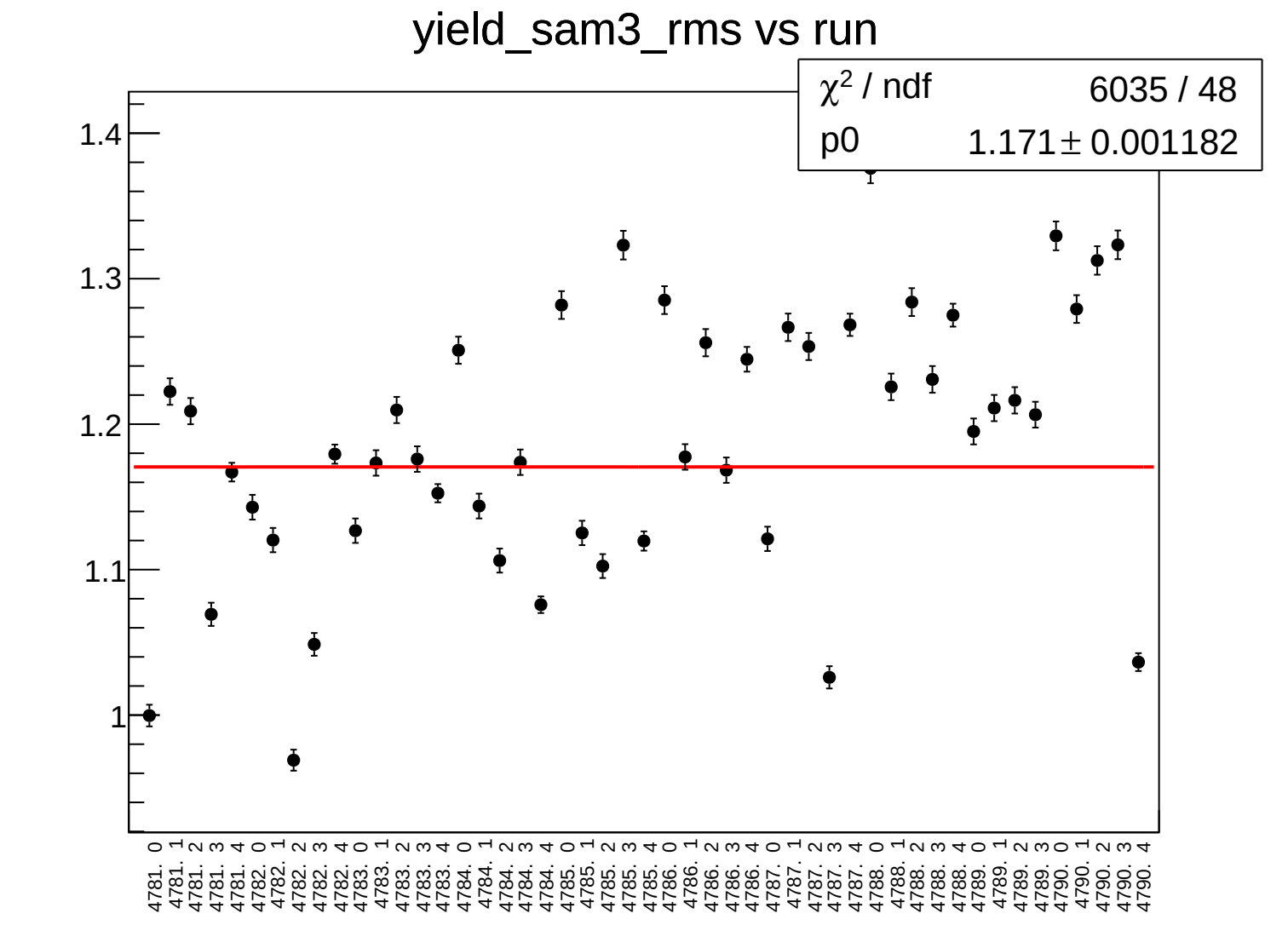

yield_sam1_mean vs run
χ² / ndf 5.145e+05 / 48
p0 3.264 ± 3.391e−05
3.3
3.28
3.26
3.24
3.22
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4798. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 216.5
Std Dev 190.4
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 49
Mean −1.824
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

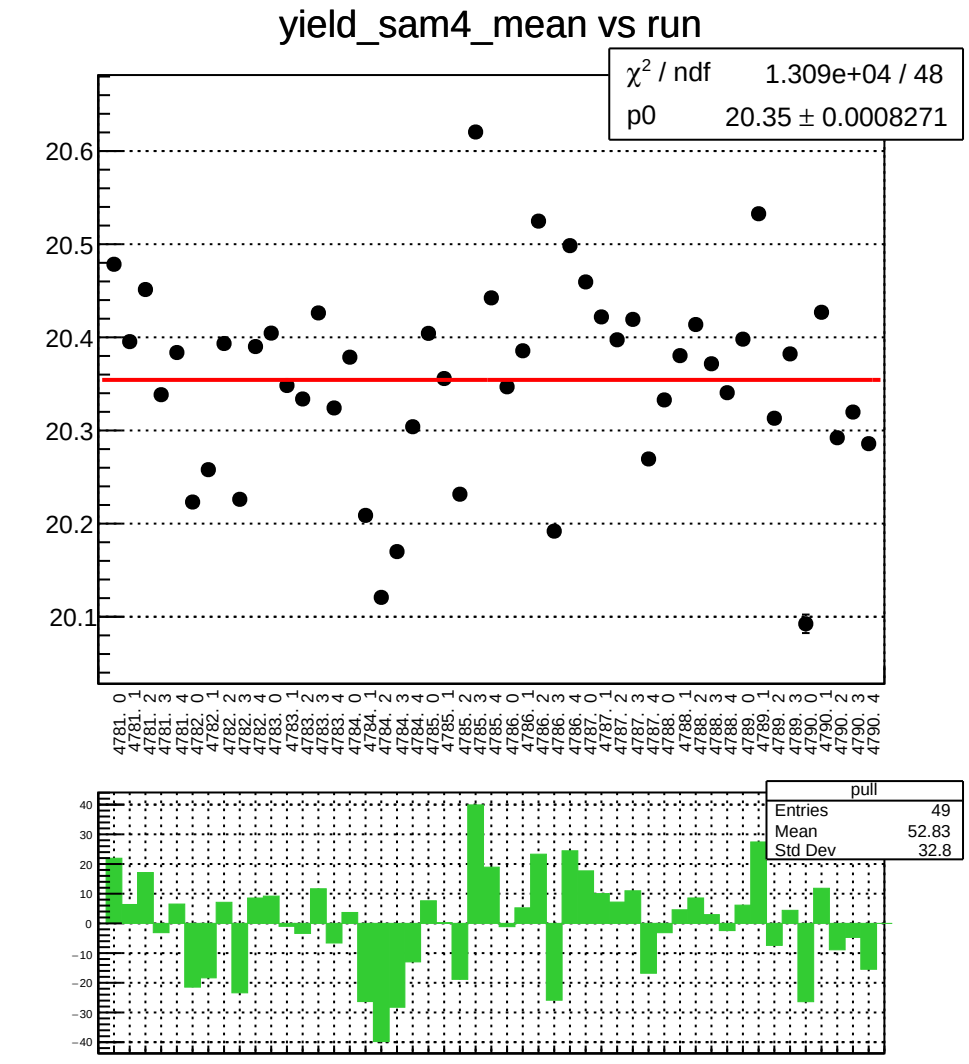

yield_sam1_rms vs run
χ² / ndf 4.203e+04 / 48
p0 0.02331 ± 2.398e–05
0.06
0.05
0.04
0.03
0.02
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

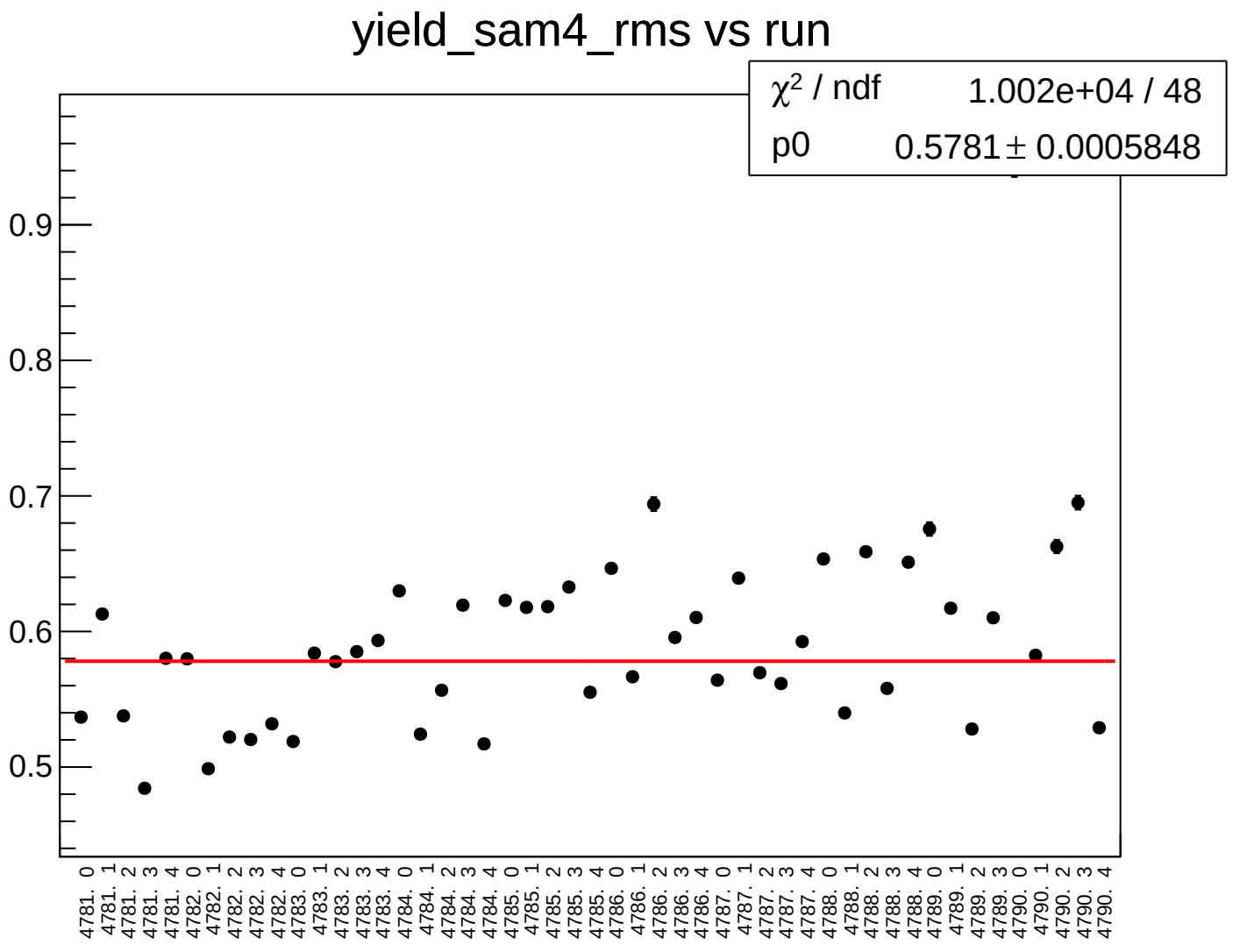

yield_sam2_mean vs run
χ² / ndf 2.121e+04 / 48
p0 9.426 ± 0.0005263
9.7
9.6
9.5
9.4
9.3
9.2
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 424.1
Std Dev 399.8
40
20
0
−20
−40
−60
pull1D
Entries 49
Mean −0.5253
Std Dev 4.436
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

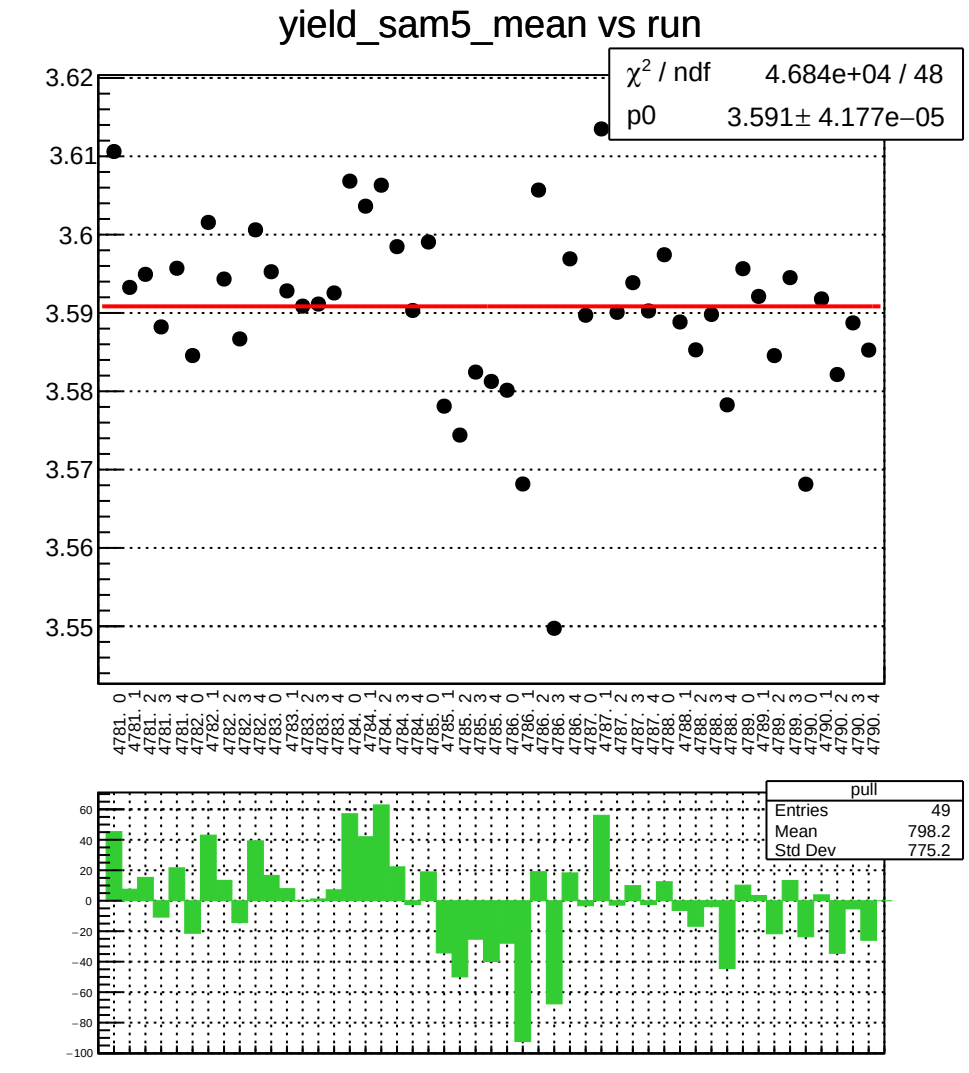

yield_sam2_rms vs run
χ² / ndf 1.265e+04 / 48
p0 0.3673 ± 0.0003721
0.5
0.45
0.4
0.35
0.3
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

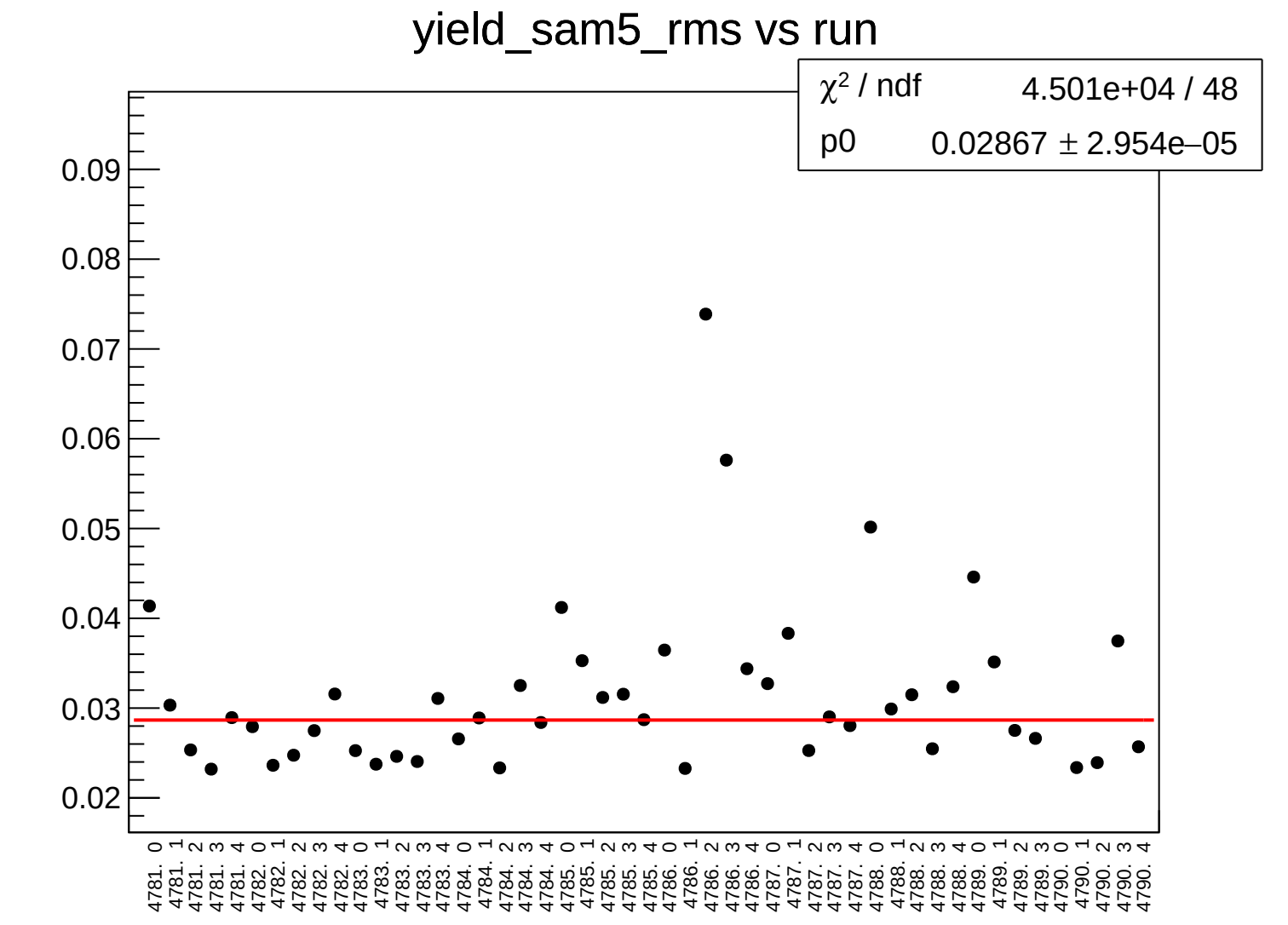

yield_sam3_mean vs run
χ² / ndf 1.479e+04 / 48
p0 19.58 ± 0.001671
20
19.8
19.6
19.4
19.2
19
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 1102
Std Dev 1103
30
20
10
0
−10
−20
−30
−40
−50
−60
pull1D
Entries 49
Mean 1.083
Std Dev 4.204
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

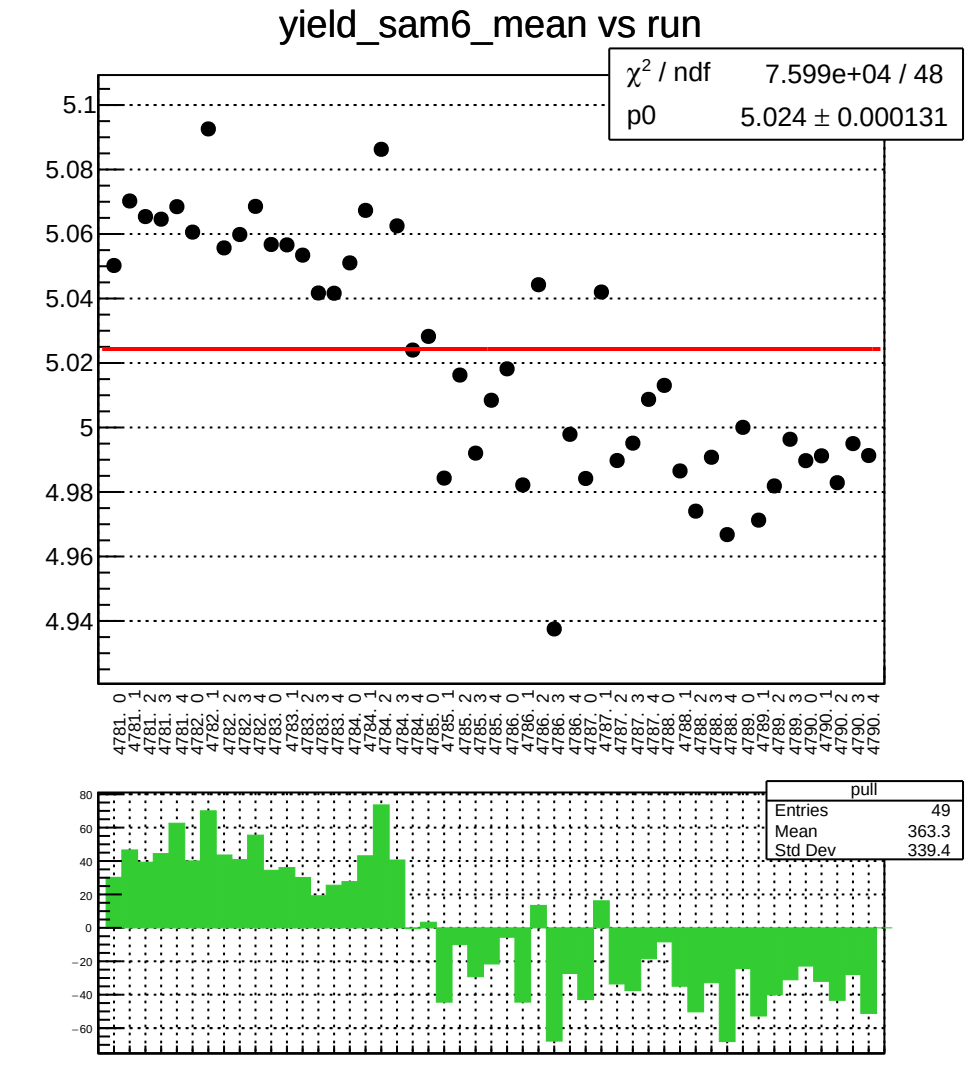

yield_sam3_rms vs run
χ² / ndf 6035 / 48
p0 1.171 ± 0.001182
1.4
1.3
1.2
1.1
1
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

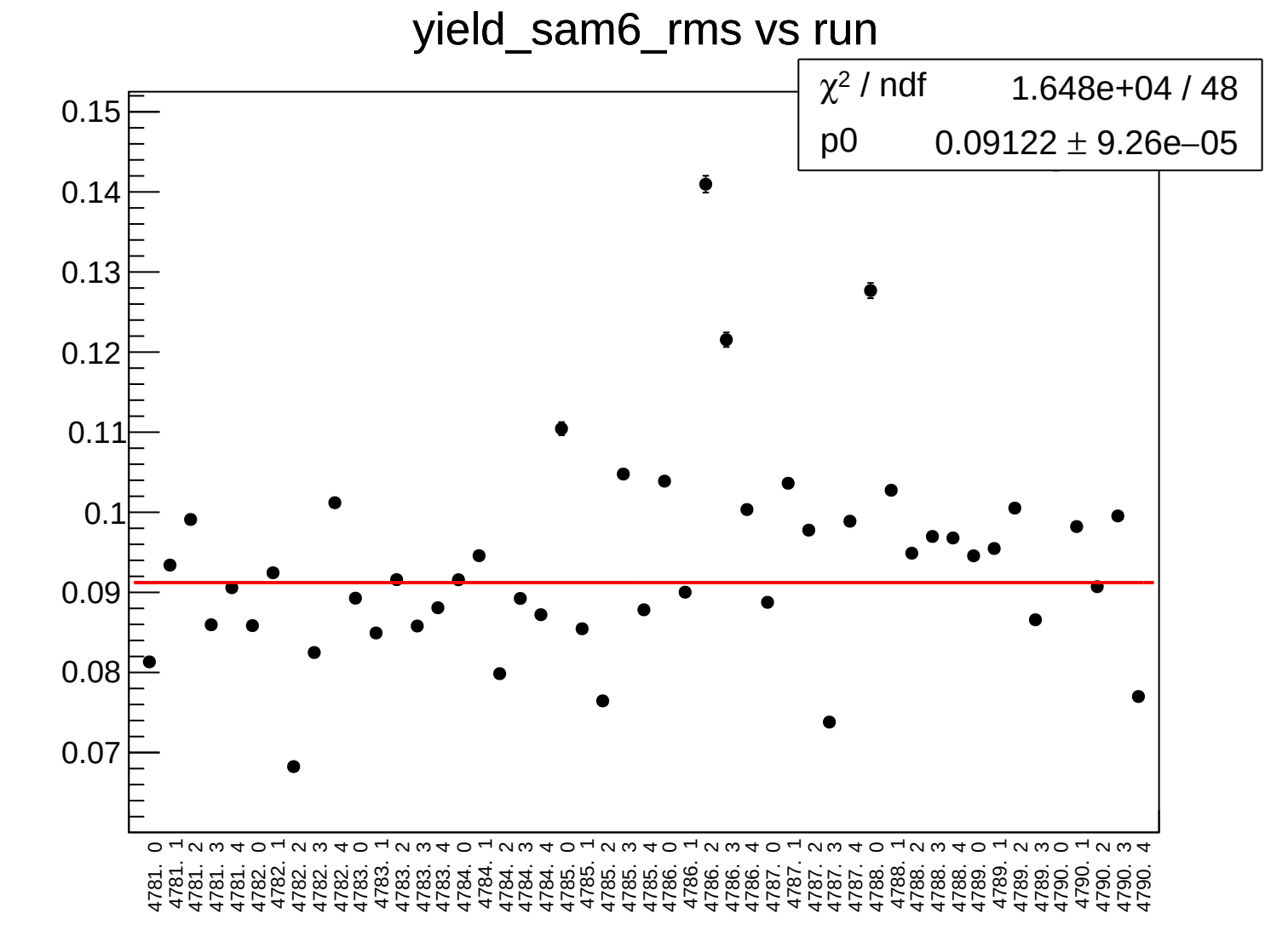

yield_sam4_mean vs run
χ² / ndf 1.309e+04 / 48
p0 20.35 ± 0.0008271
20.6
20.5
20.4
20.3
20.2
20.1
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 52.83
Std Dev 32.8
40
30
20
10
0
−10
−20
−30
−40
pull1D
Entries 49
Mean 1.389
Std Dev 4.825
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

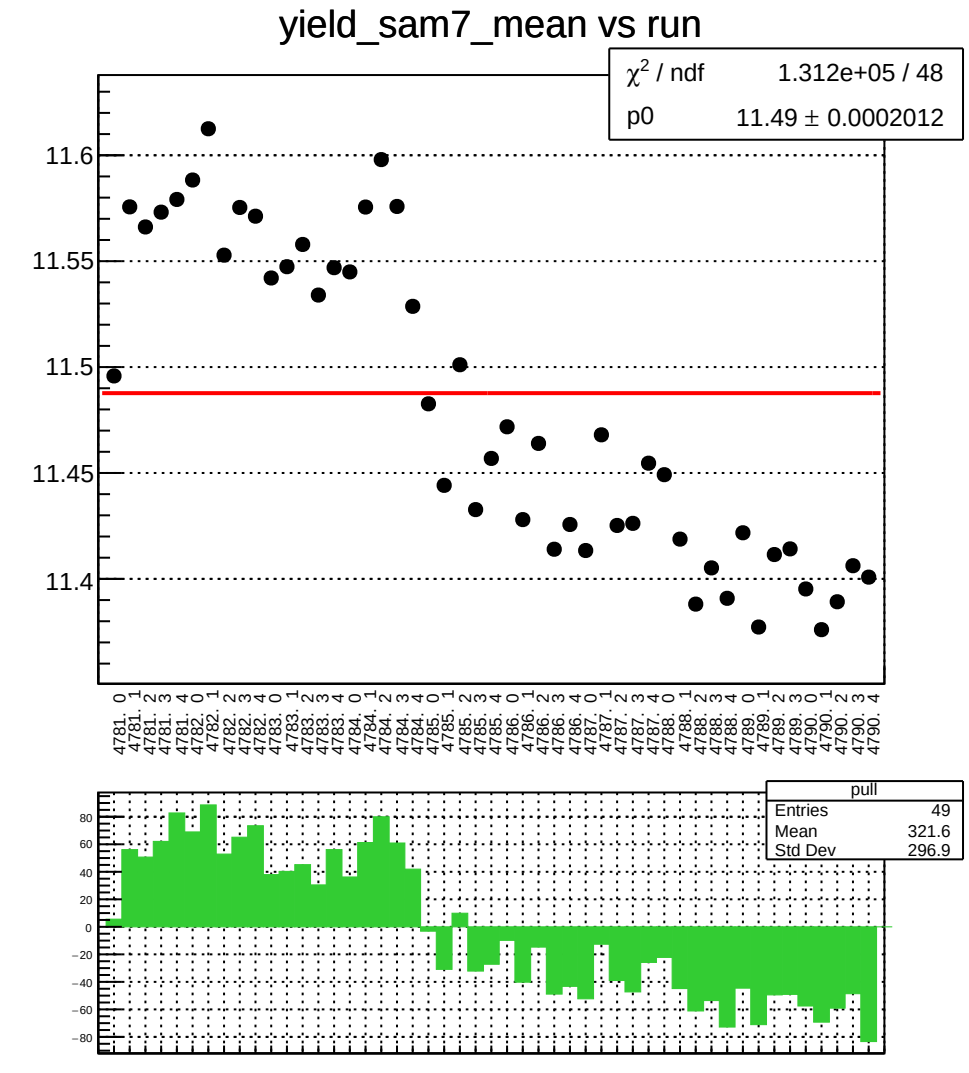

yield_sam4_rms vs run
χ² / ndf 1.002e+04 / 48
p0 0.5781 ± 0.0005848
0.9
0.8
0.7
0.6
0.5
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

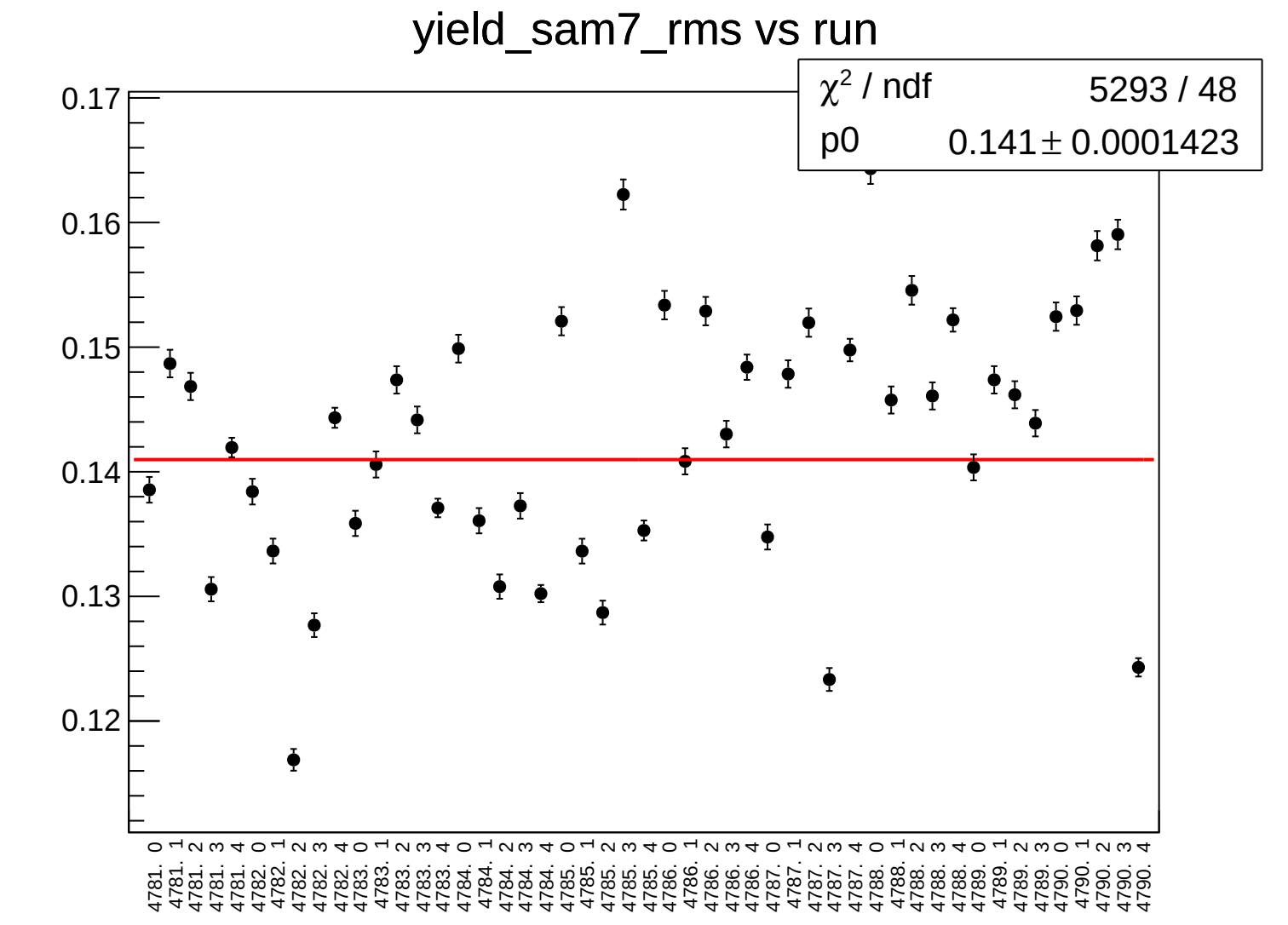

yield_sam5_mean vs run
χ² / ndf 4.684e+04 / 48
p0 3.591± 4.177e−05
3.62
3.61
3.6
3.59
3.58
3.57
3.56
3.55
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 798.2
Std Dev 775.2
60
40
20
0
−20
−40
−60
−80
−100
pull1D
Entries 49
Mean 0.3304
Std Dev 4.719
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

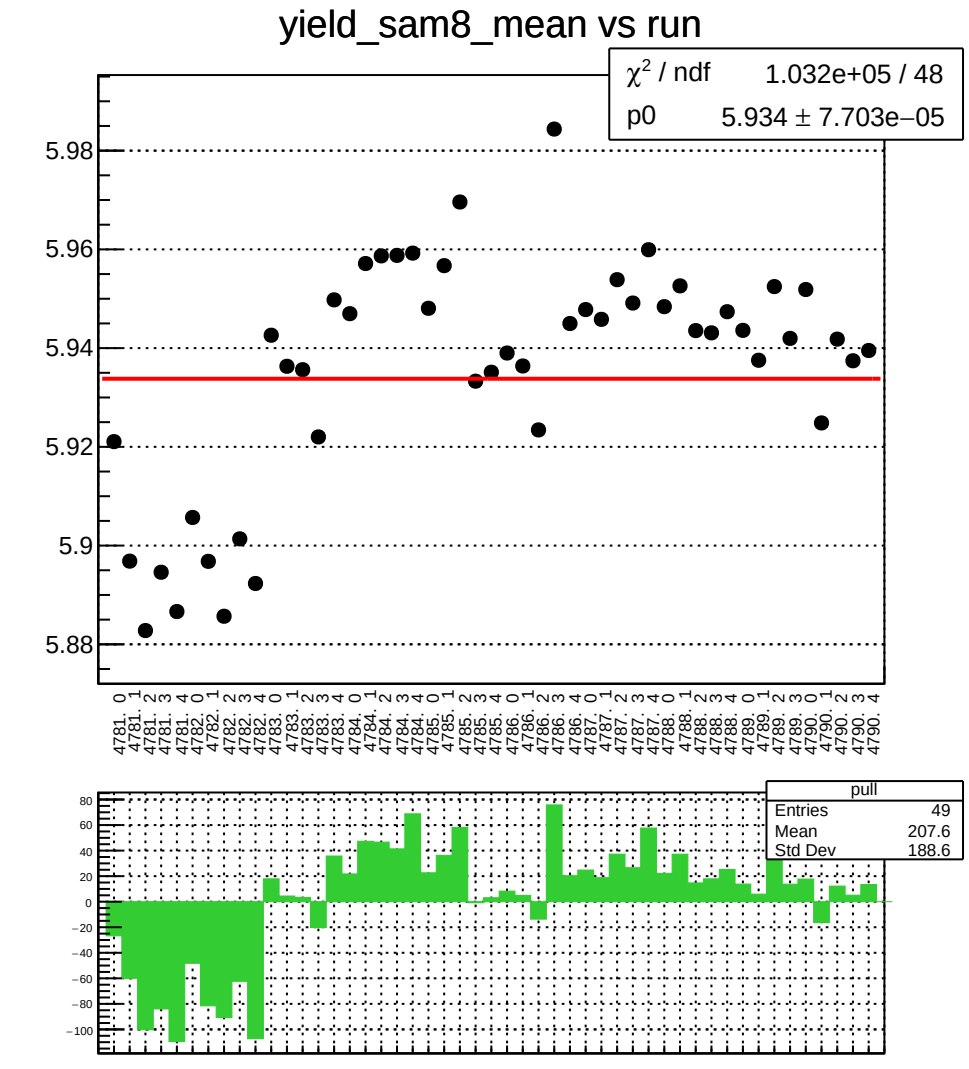

yield_sam5_rms vs run
χ² / ndf 4.501e+04 / 48
p0 0.02867 ± 2.954e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

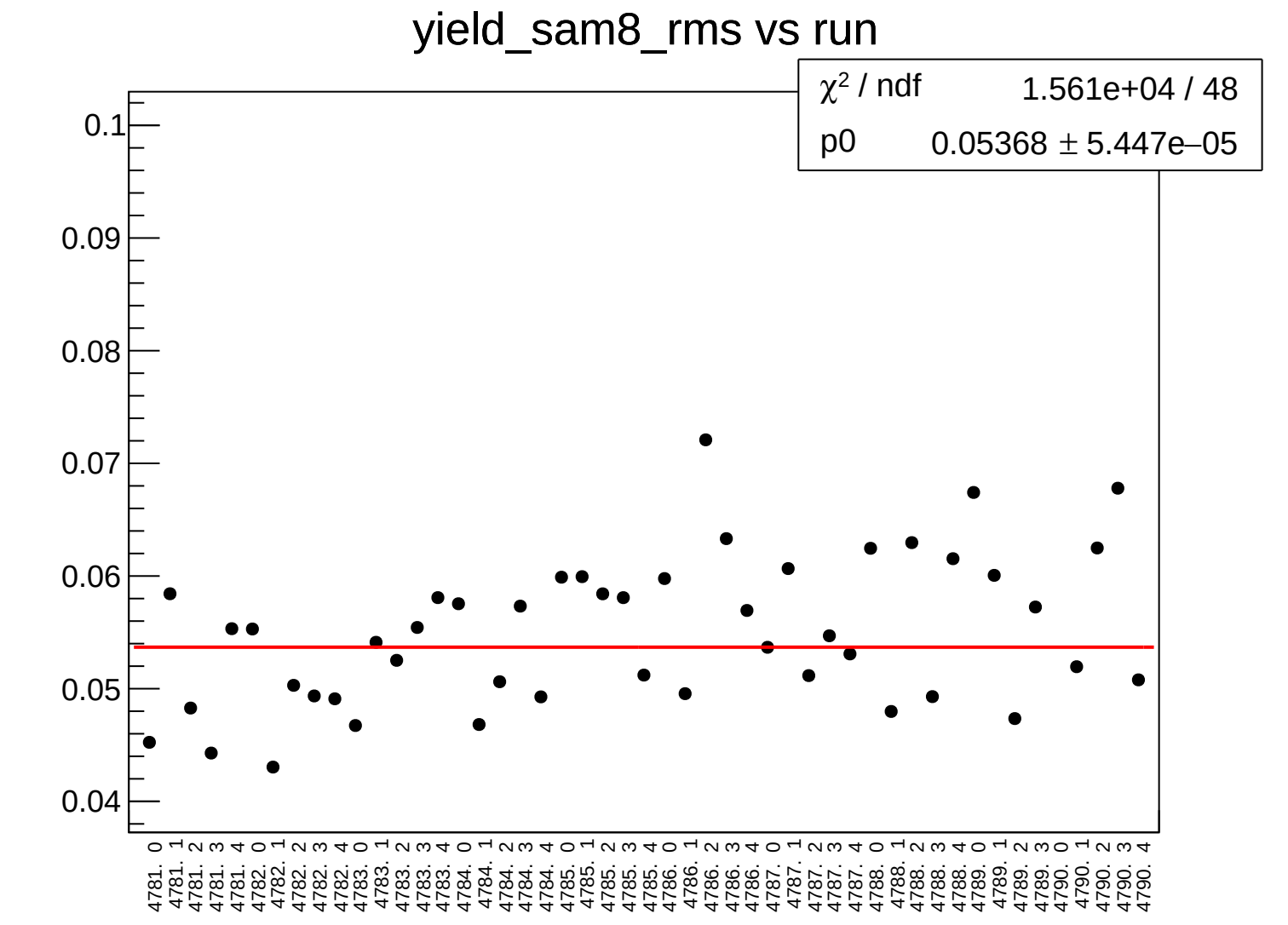

yield_sam6_mean vs run
χ² / ndf 7.599e+04 / 48
p0 5.024 ± 0.000131
5.1
5.08
5.06
5.04
5.02
5
4.98
4.96
4.94
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 363.3
Std Dev 339.4
80
60
40
20
0
−20
−40
−60
pull1D
Entries 49
Mean −0.9149
Std Dev 3.676
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

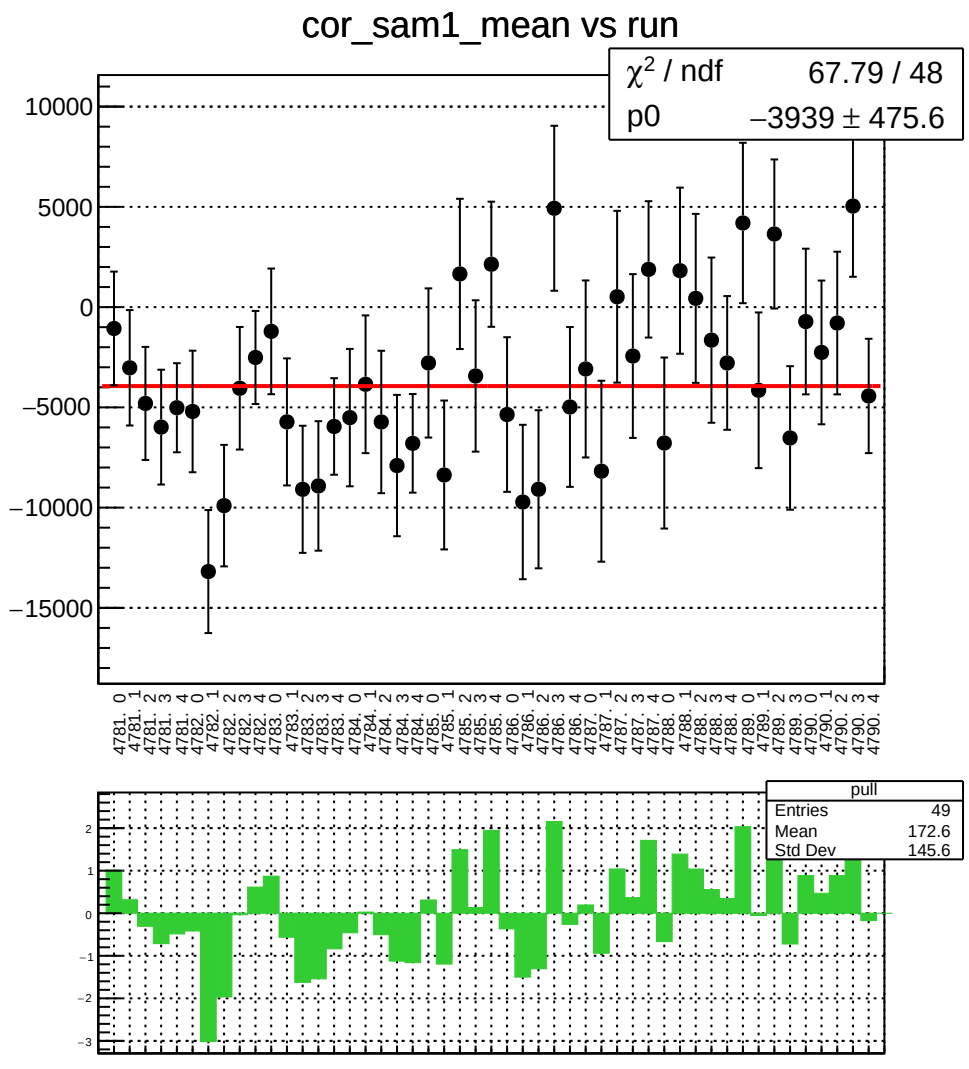

yield_sam6_rms vs run
χ² / ndf 1.648e+04 / 48
p0 0.09122 ± 9.26e−05
0.15
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

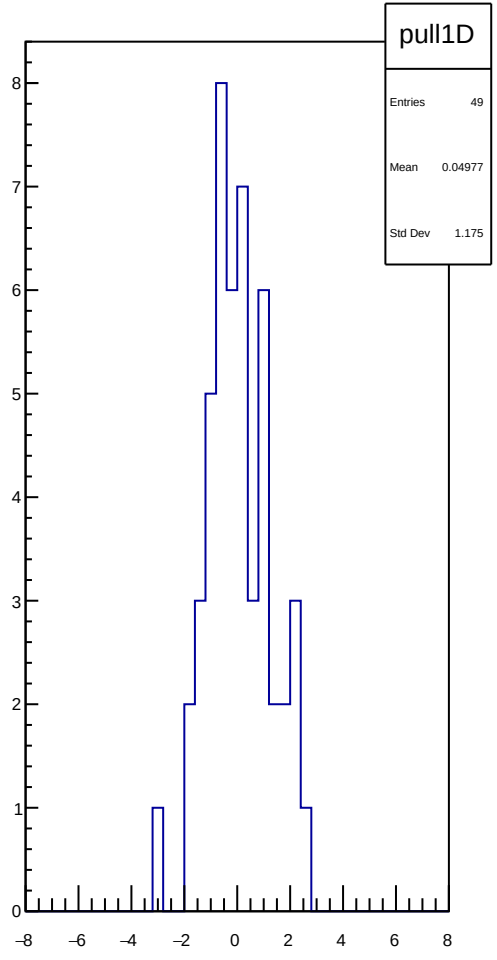

yield_sam7_mean vs run
χ² / ndf 1.312e+05 / 48
p0 11.49 ± 0.0002012
11.6
11.55
11.5
11.45
11.4
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 321.6
Std Dev 296.9
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 49
Mean 1.211
Std Dev 4.355
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

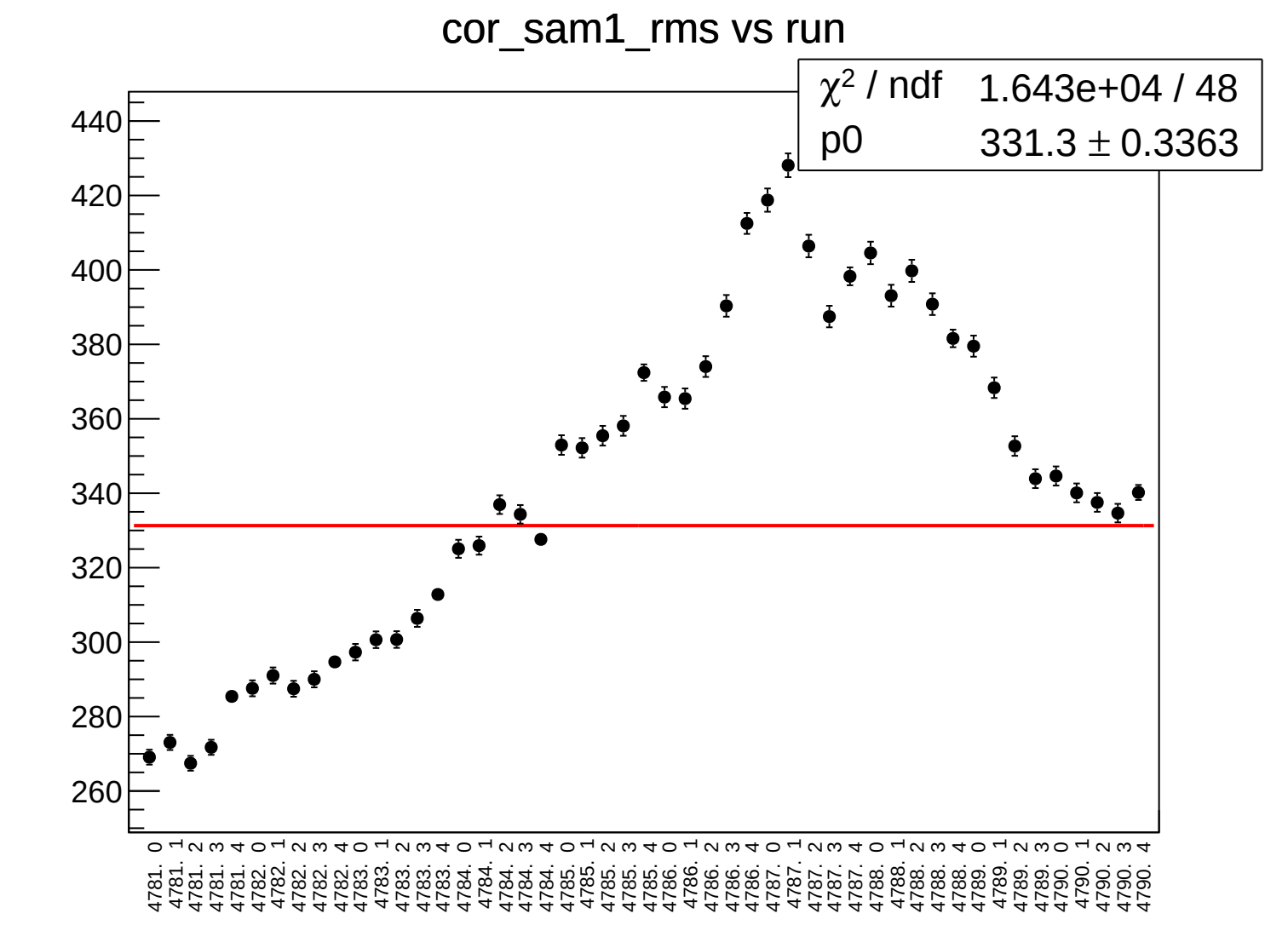

yield_sam7_rms vs run
χ² / ndf 5293 / 48
p0 0.141 ± 0.0001423
0.17
0.16
0.15
0.14
0.13
0.12
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

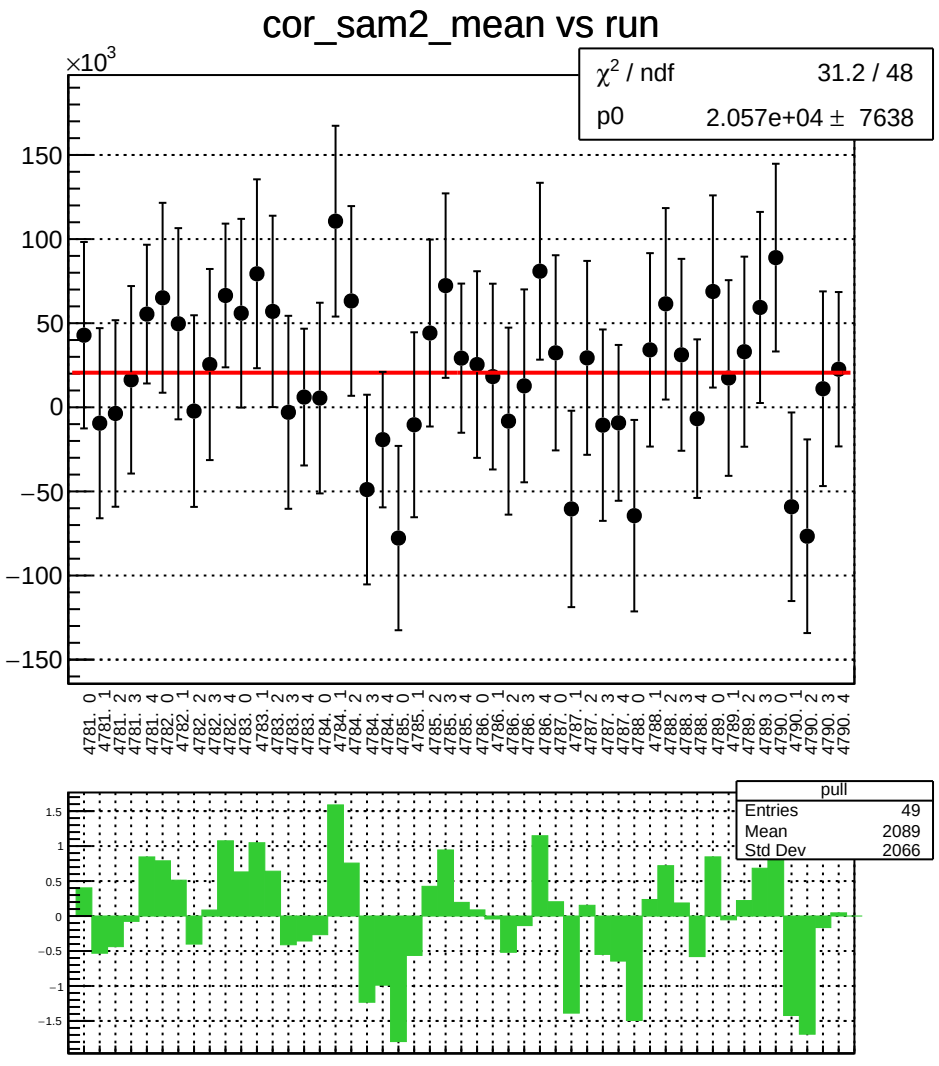

yield_sam8_mean vs run
χ² / ndf 1.032e+05 / 48
p0 5.934 ± 7.703e−05
5.98
5.96
5.94
5.92
5.9
5.88
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 207.6
Std Dev 188.6
80
60
40
20
0
−20
−40
−60
−80
−100
pull1D
Entries 49
Mean 3.706
Std Dev 2.063
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

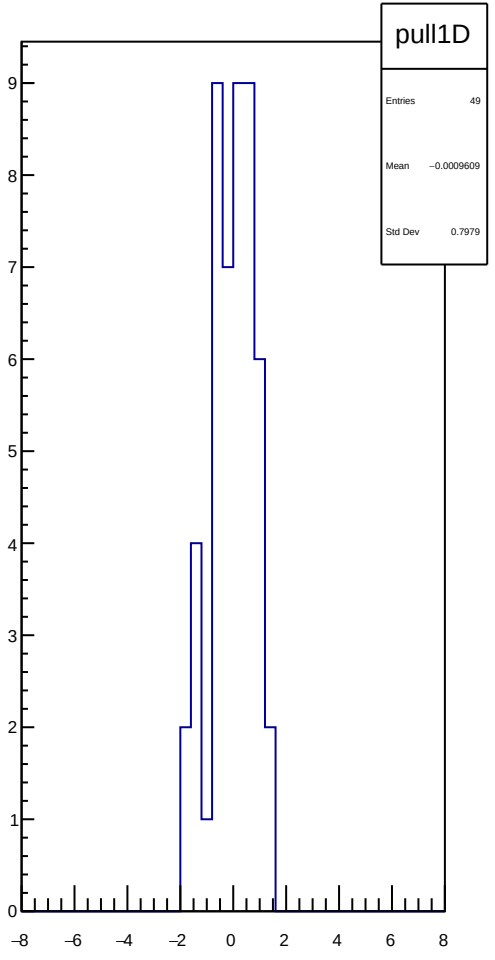

yield_sam8_rms vs run
χ² / ndf 1.561e+04 / 48
p0 0.05368 ± 5.447e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

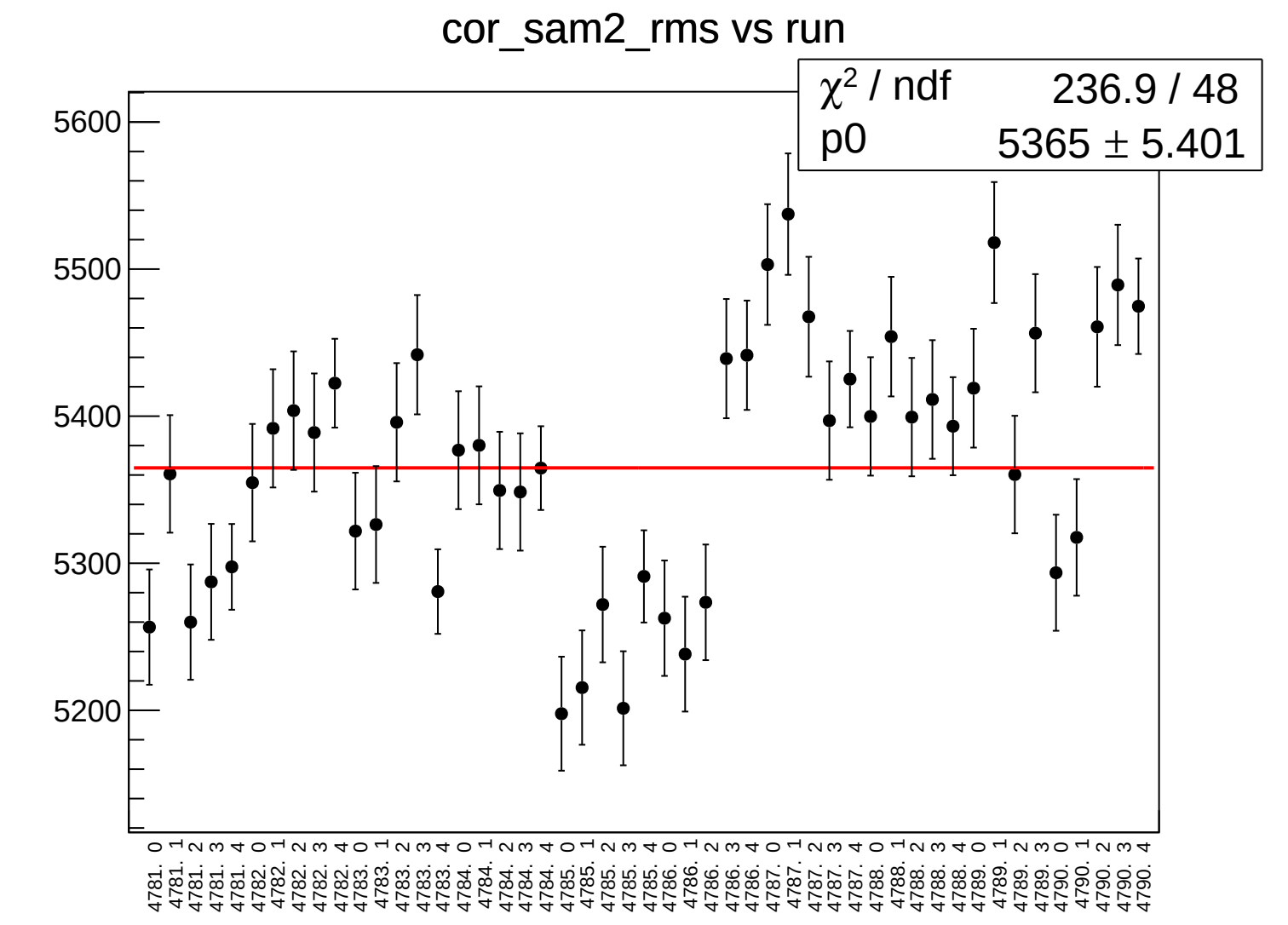

cor_sam1_mean vs run
χ^2 / ndf 67.79 / 48
p0 −3939 ± 475.6
10000
5000
0
−5000
−10000
−15000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 172.6
Std Dev 145.6
2
1
0
−1
−2
−3

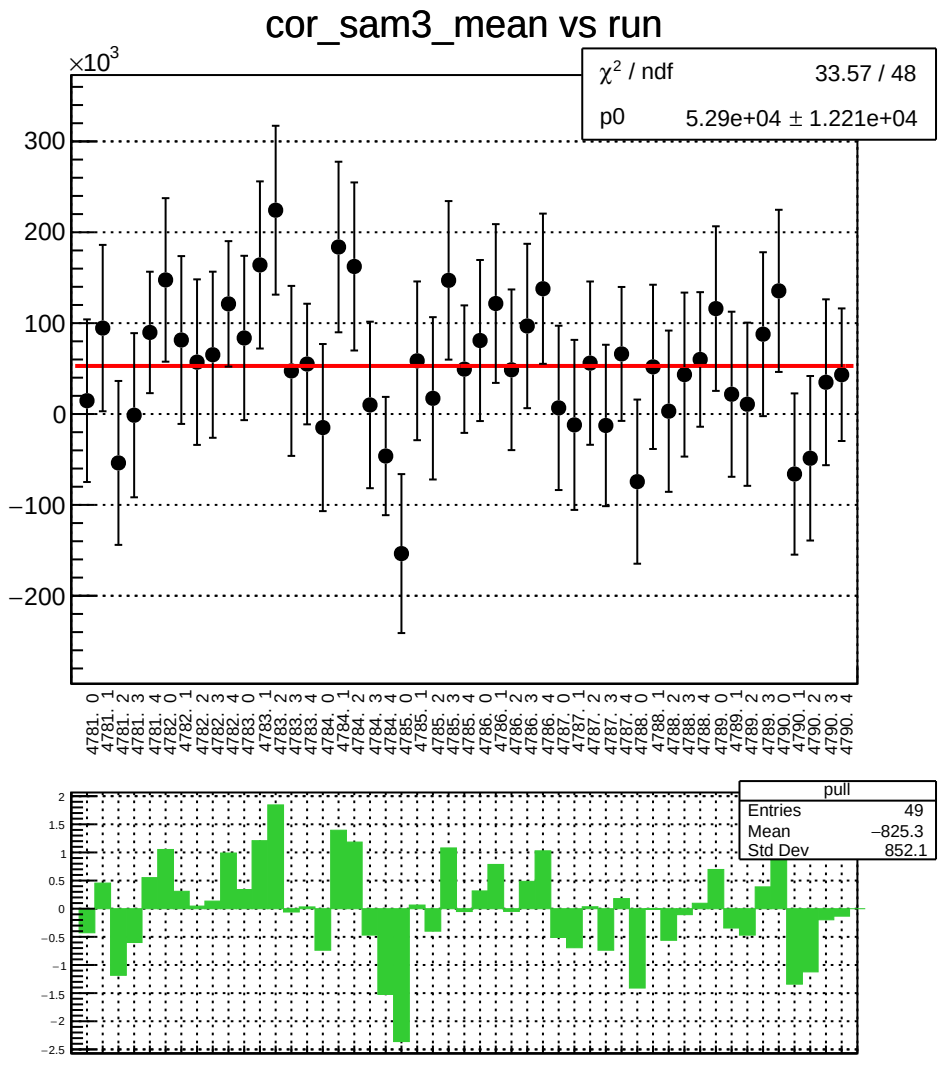

pull1D
Entries 49
Mean 0.04977
Std Dev 1.175
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

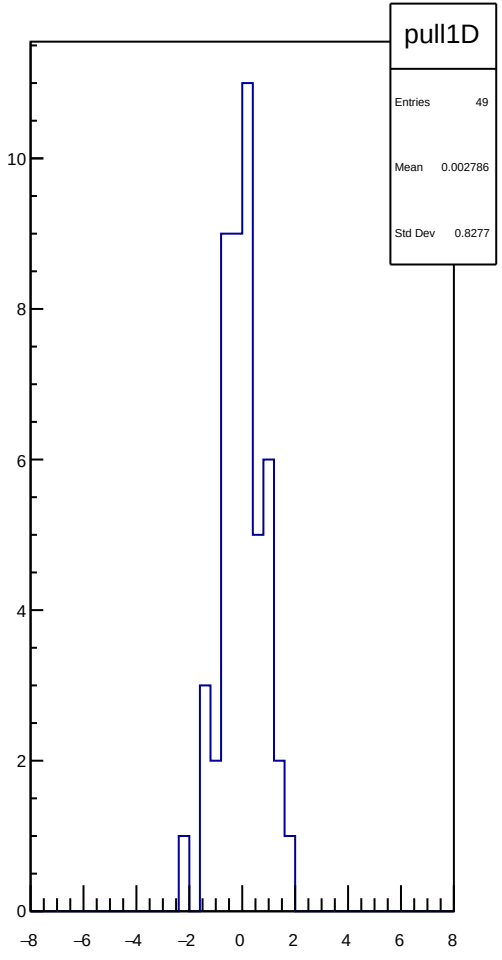

cor_sam1_rms vs run
χ² / ndf 1.643e+04 / 48
p0 331.3 ± 0.3363
440
420
400
380
360
340
320
300
280
260
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

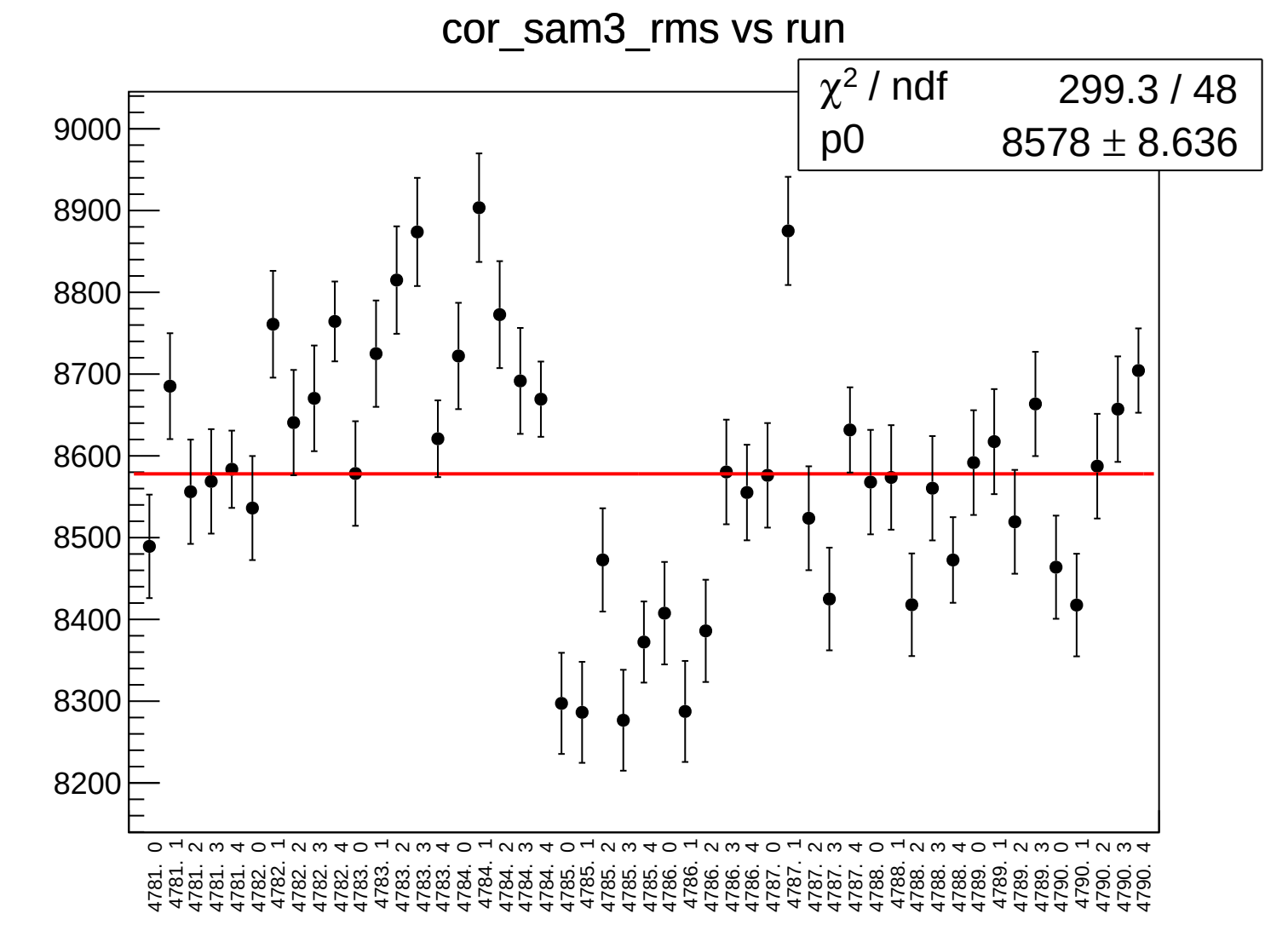

cor_sam2_mean vs run
×10^3
χ² / ndf 31.2 / 48
p0 2.057e+04 ± 7638
150
100
50
0
−50
−100
−150
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 2089
Std Dev 2066
1.5
1
0.5
0
−0.5
−1
−1.5

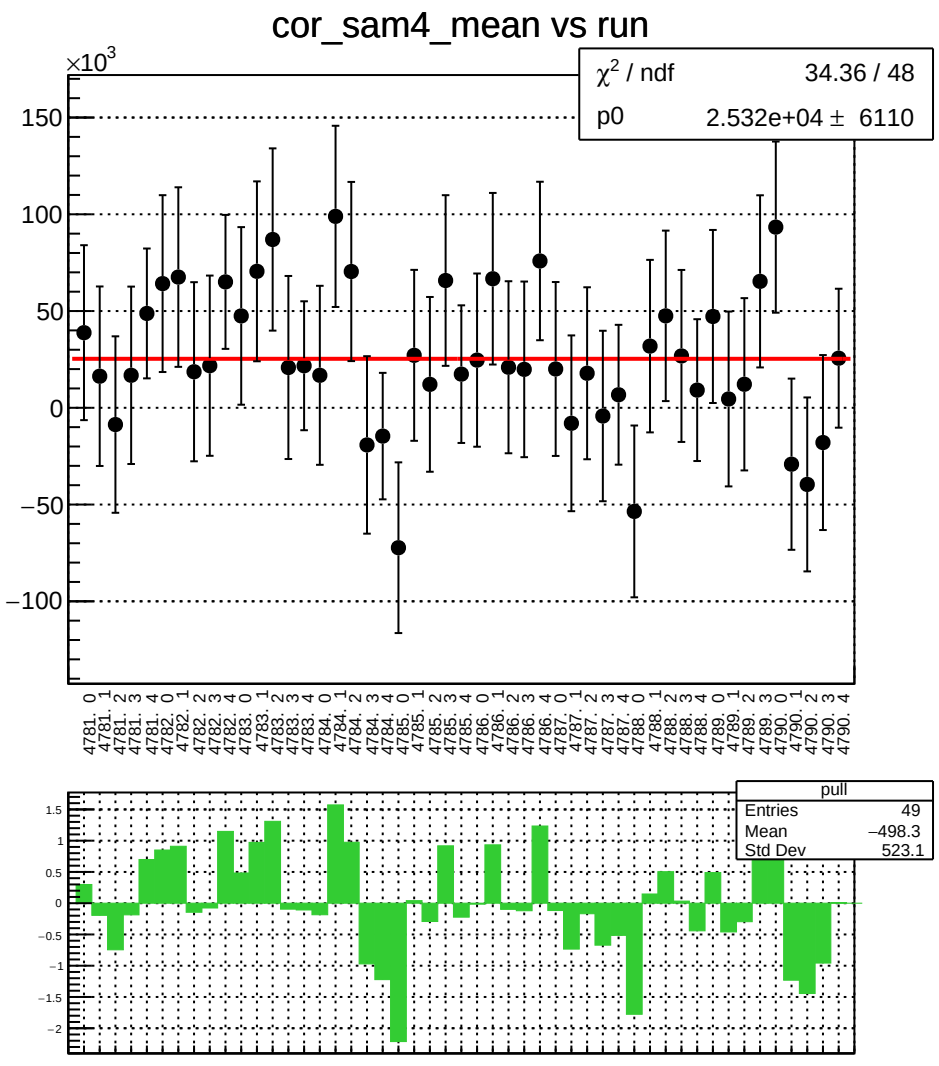

pull1D
Entries 49
Mean −0.0009609
Std Dev 0.7979
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

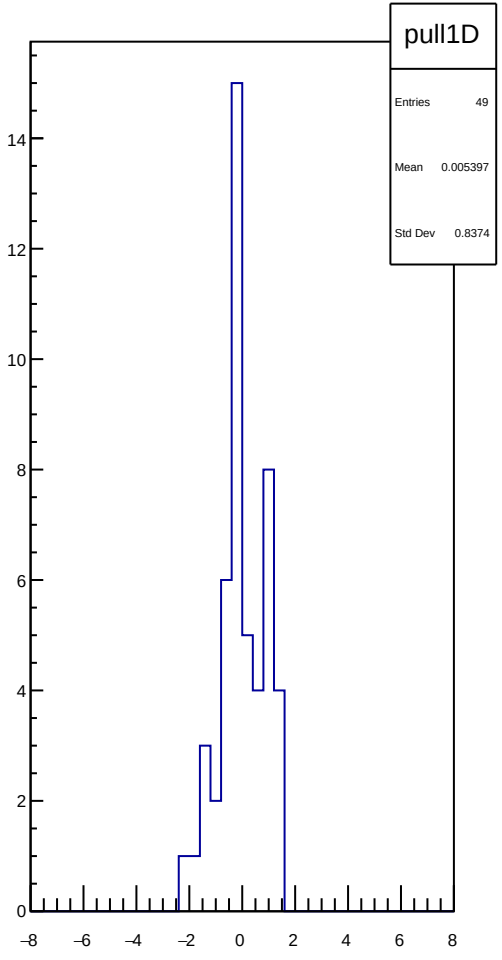

cor_sam2_rms vs run
χ² / ndf 236.9 / 48
p0 5365 ± 5.401
5600
5500
5400
5300
5200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

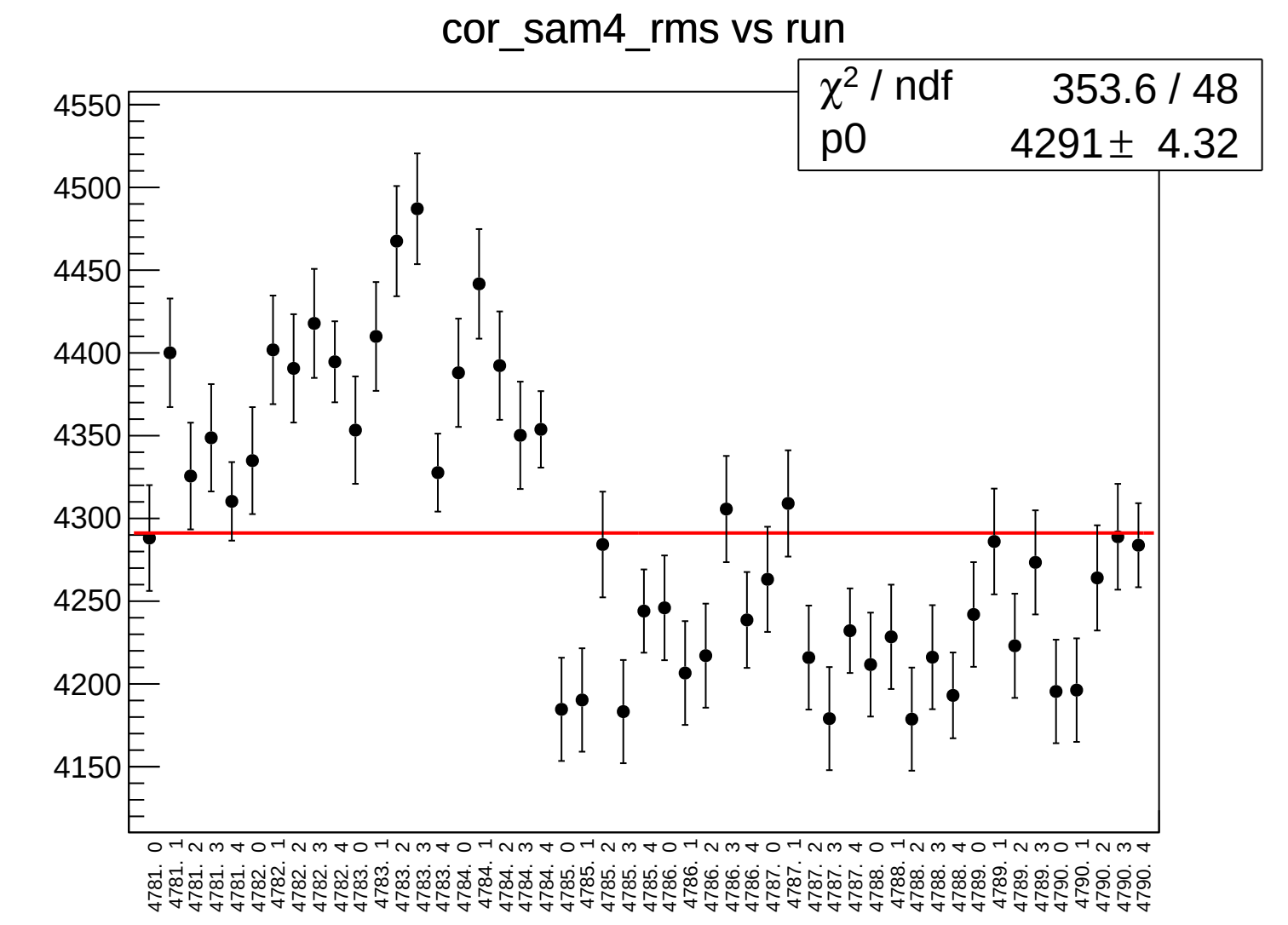

cor_sam3_mean vs run
×10^3
χ² / ndf 33.57 / 48
p0 5.29e+04 ± 1.221e+04
300
200
100
0
−100
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −825.3
Std Dev 852.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

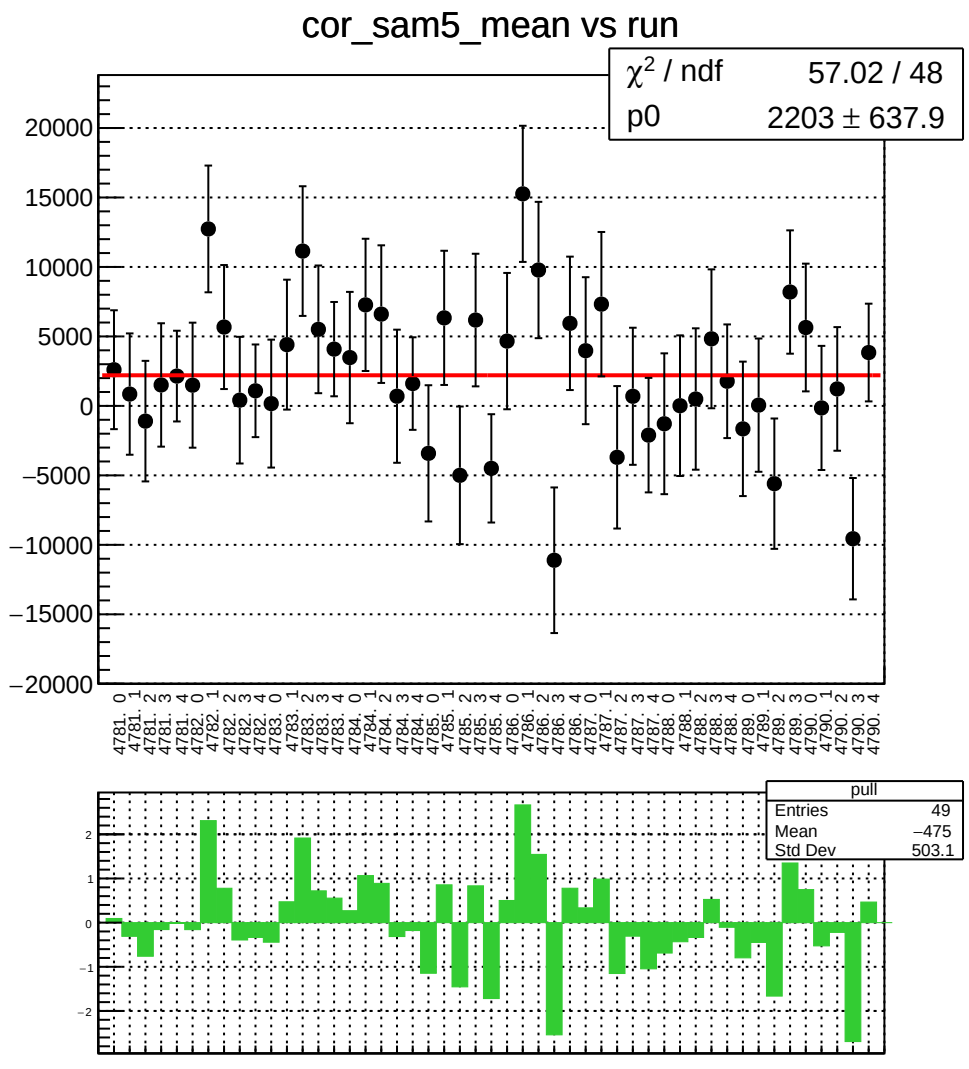

pull1D
Entries 49
Mean 0.002786
Std Dev 0.8277
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

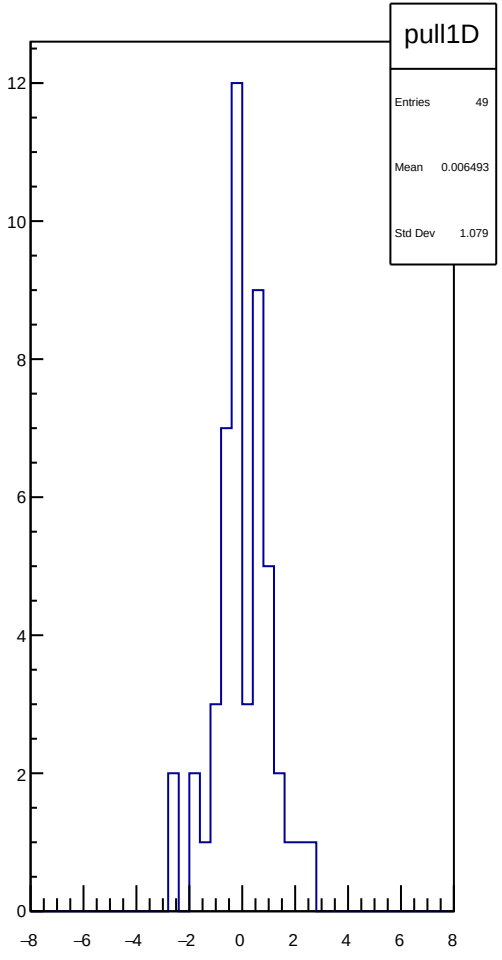

cor_sam3_rms vs run
χ² / ndf 299.3 / 48
p0 8578 ± 8.636
9000
8900
8800
8700
8600
8500
8400
8300
8200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

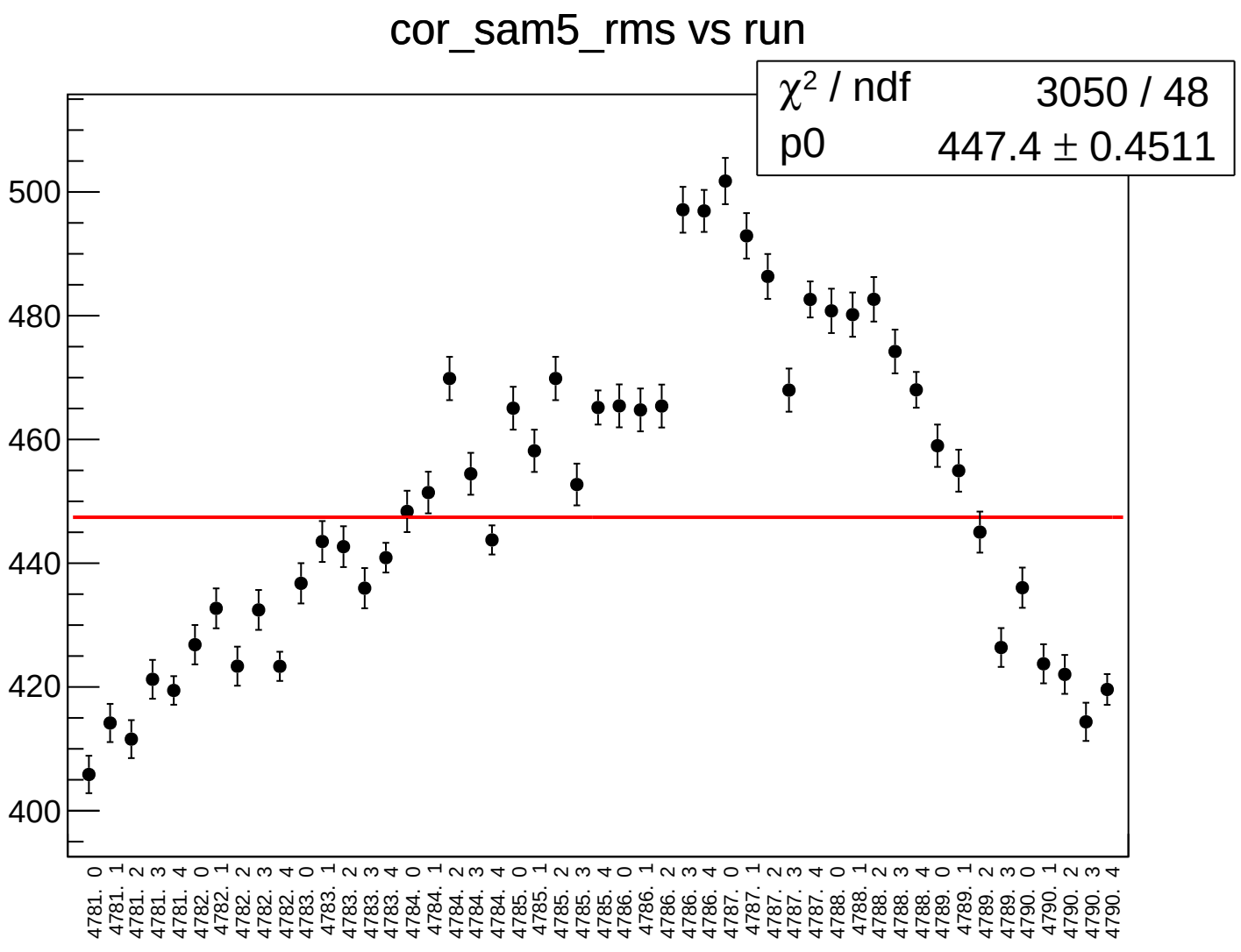

cor_sam4_mean vs run
×10^3
χ² / ndf 34.36 / 48
p0 2.532e+04 ± 6110
150
100
50
0
−50
−100
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −498.3
Std Dev 523.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

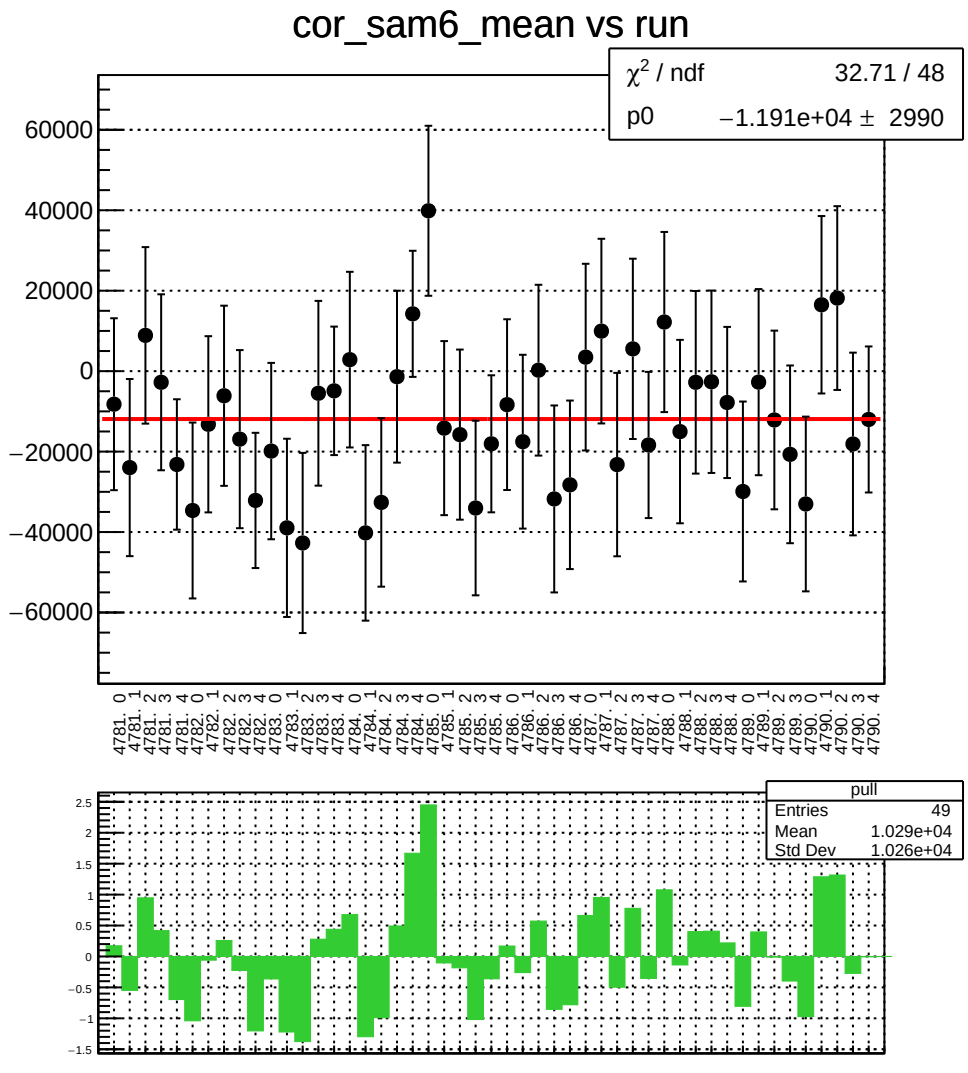

pull1D
Entries 49
Mean 0.005397
Std Dev 0.8374
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

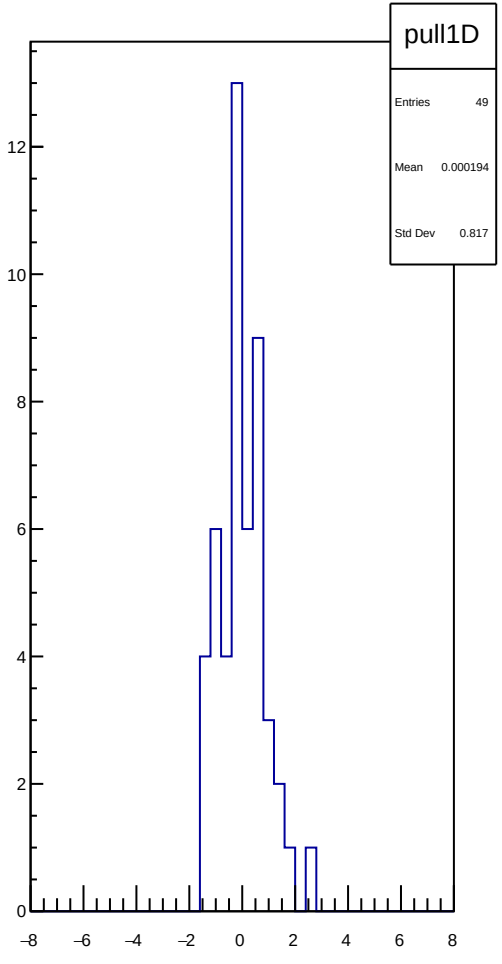

cor_sam4_rms vs run
χ² / ndf 353.6 / 48
p0 4291 ± 4.32
4550
4500
4450
4400
4350
4300
4250
4200
4150
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

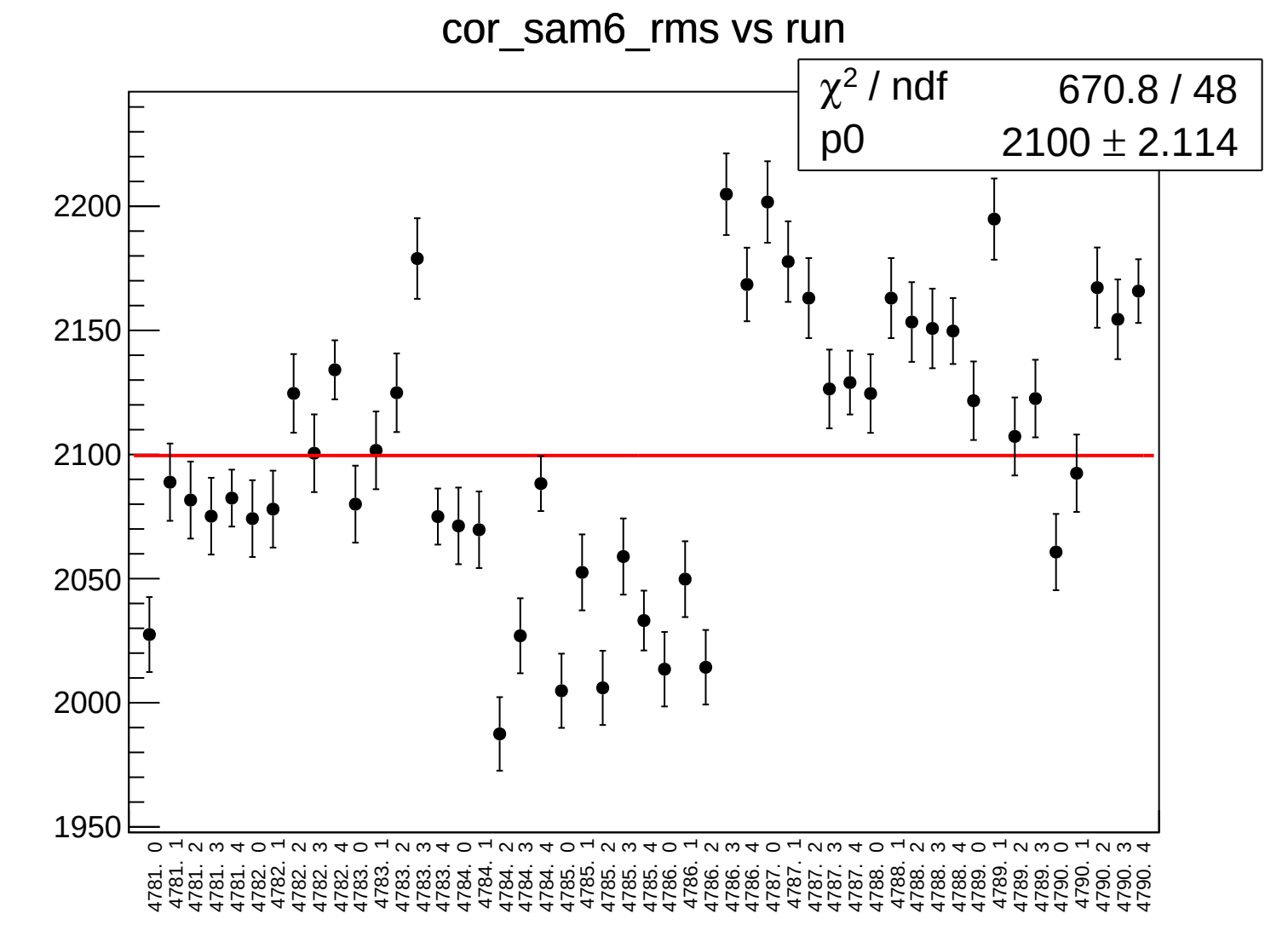

cor_sam5_mean vs run
χ^2 / ndf 57.02 / 48
p0 2203 ± 637.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −475
Std Dev 503.1
2
1
0
−1
−2

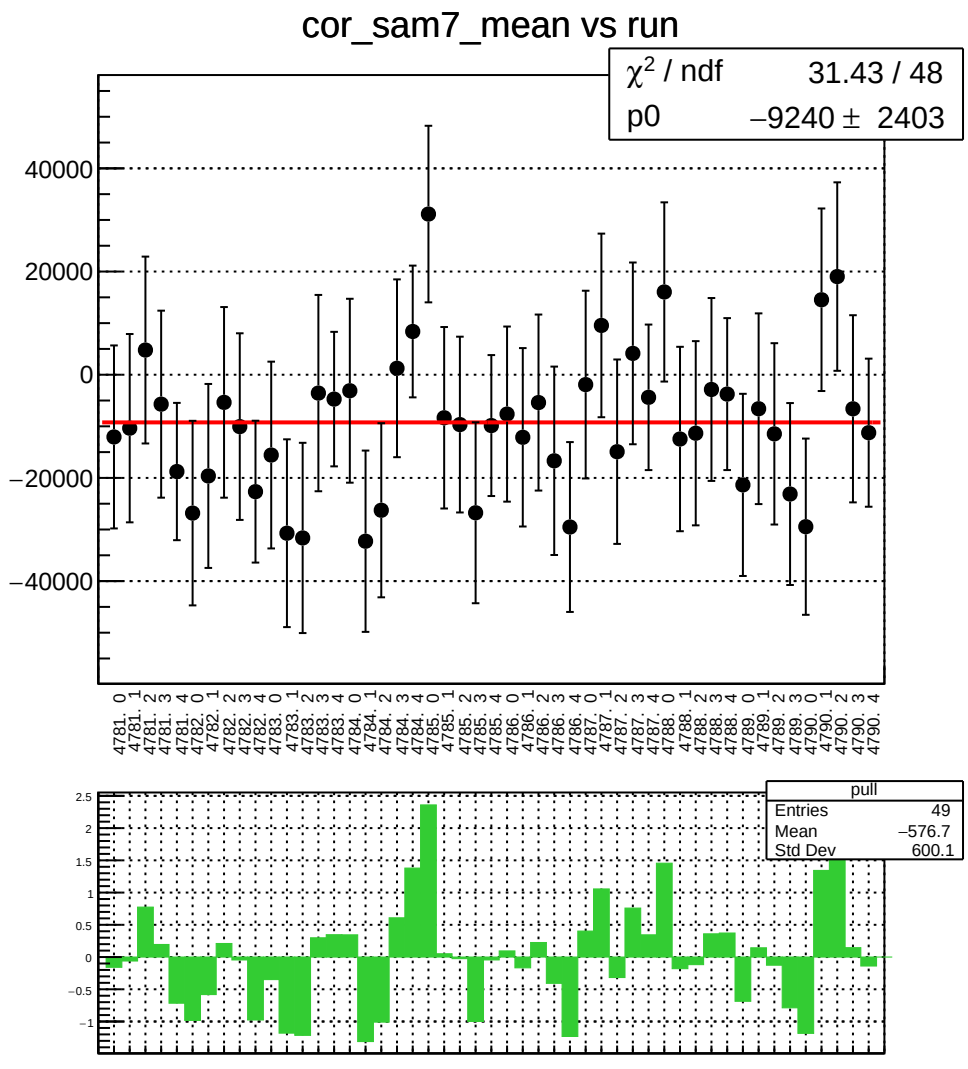

pull1D
Entries 49
Mean 0.006493
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

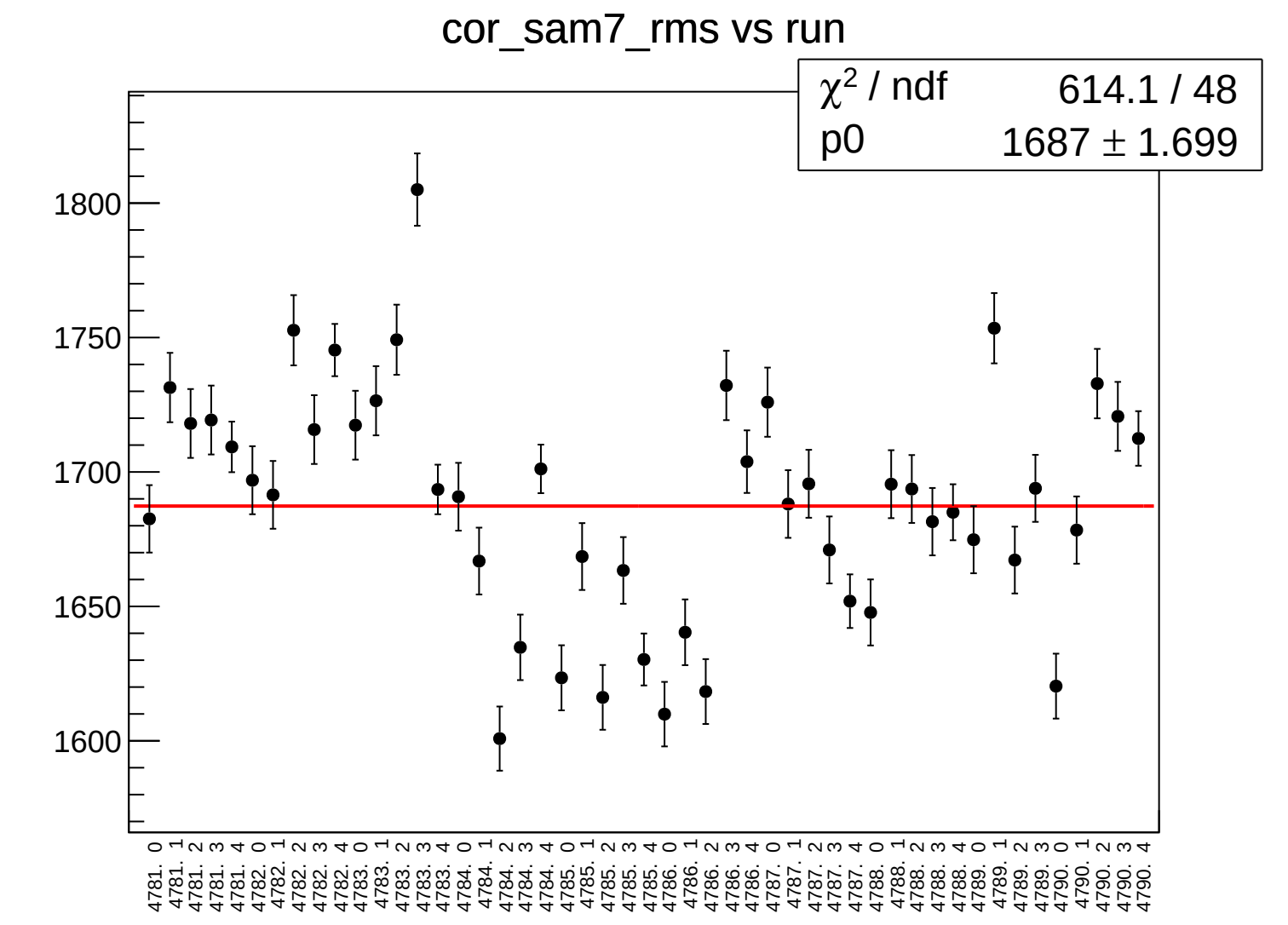

cor_sam5_rms vs run
χ² / ndf 3050 / 48
p0 447.4 ± 0.4511
500
480
460
440
420
400
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

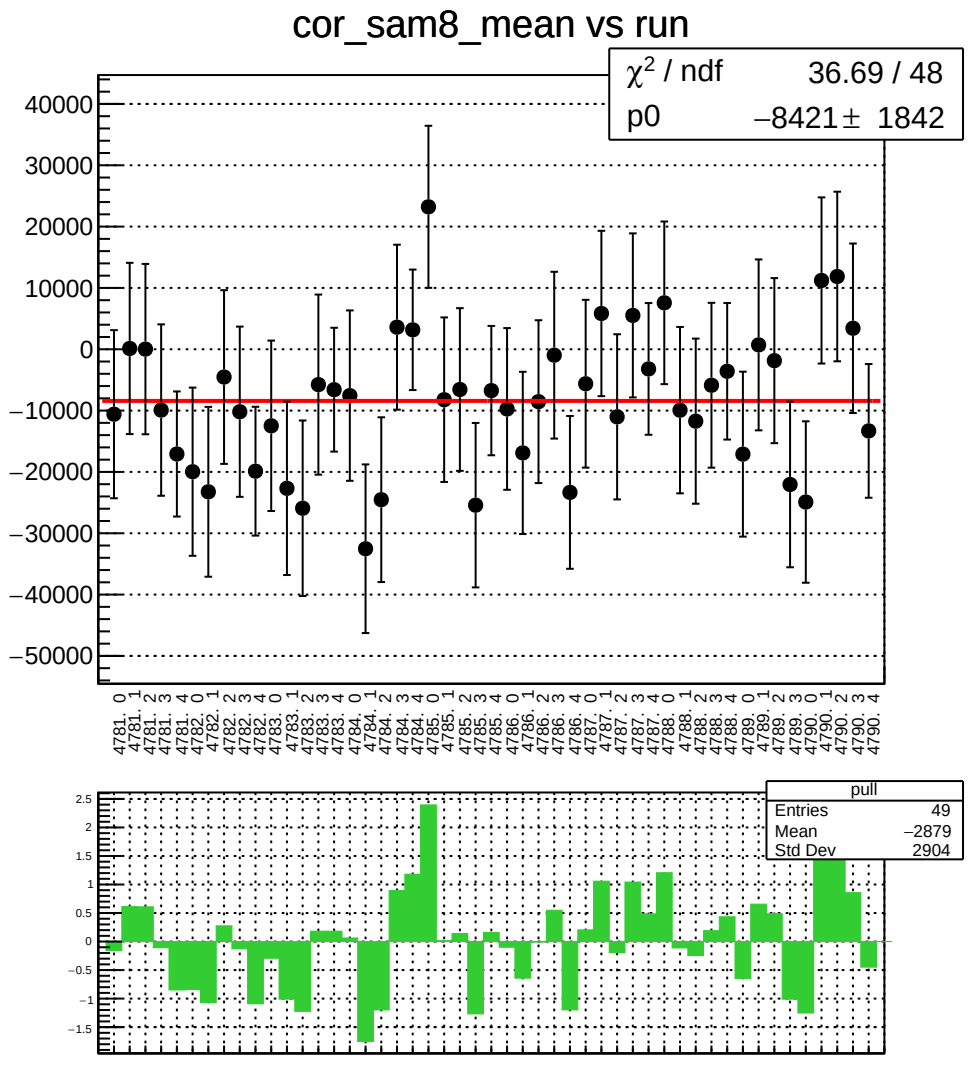

cor_sam6_mean vs run
χ² / ndf 32.71 / 48
p0 −1.191e+04 ± 2990
60000
40000
20000
0
−20000
−40000
−60000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 1.029e+04
Std Dev 1.026e+04
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

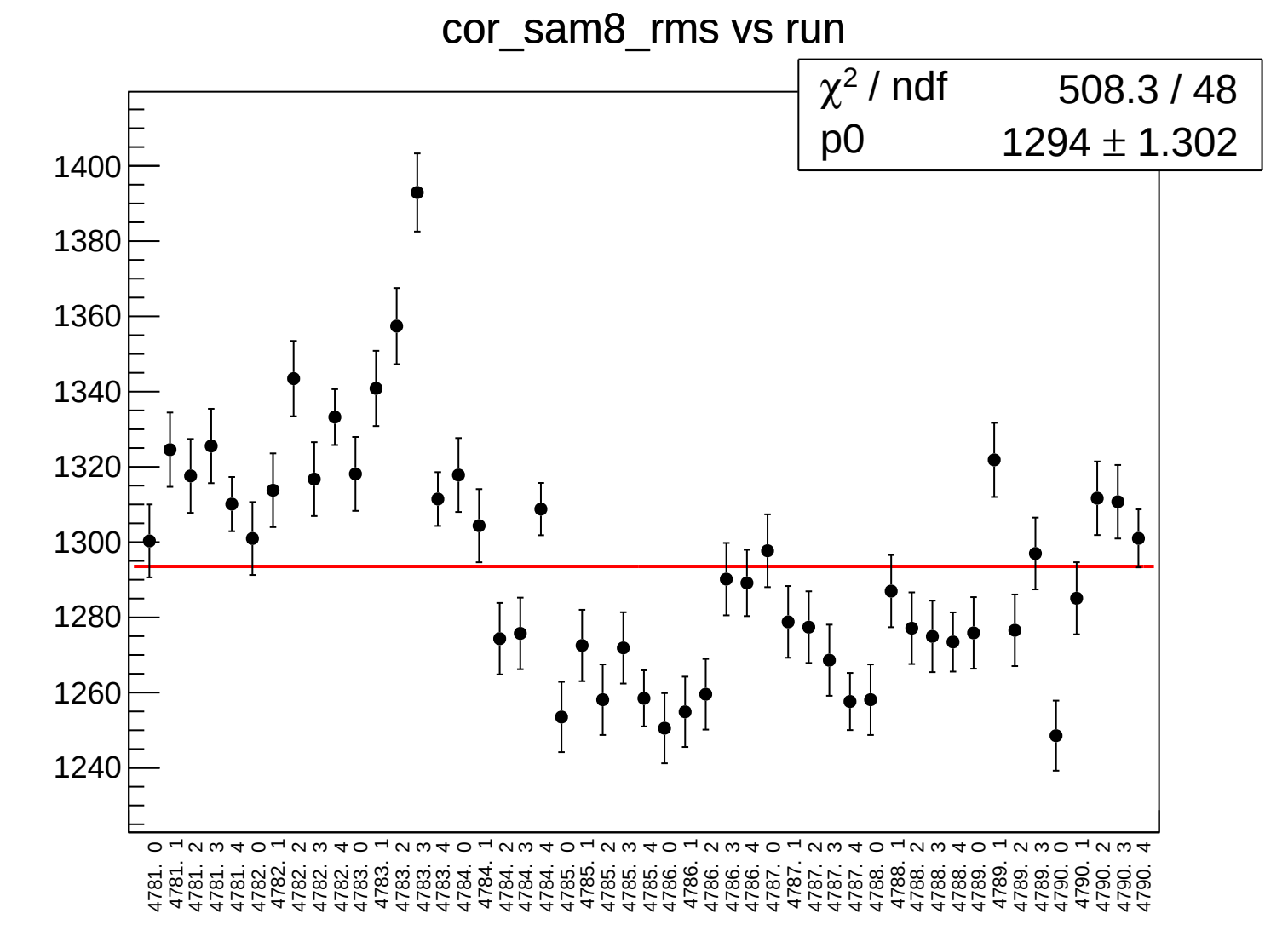

pull1D
Entries 49
Mean 0.000194
Std Dev 0.817
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

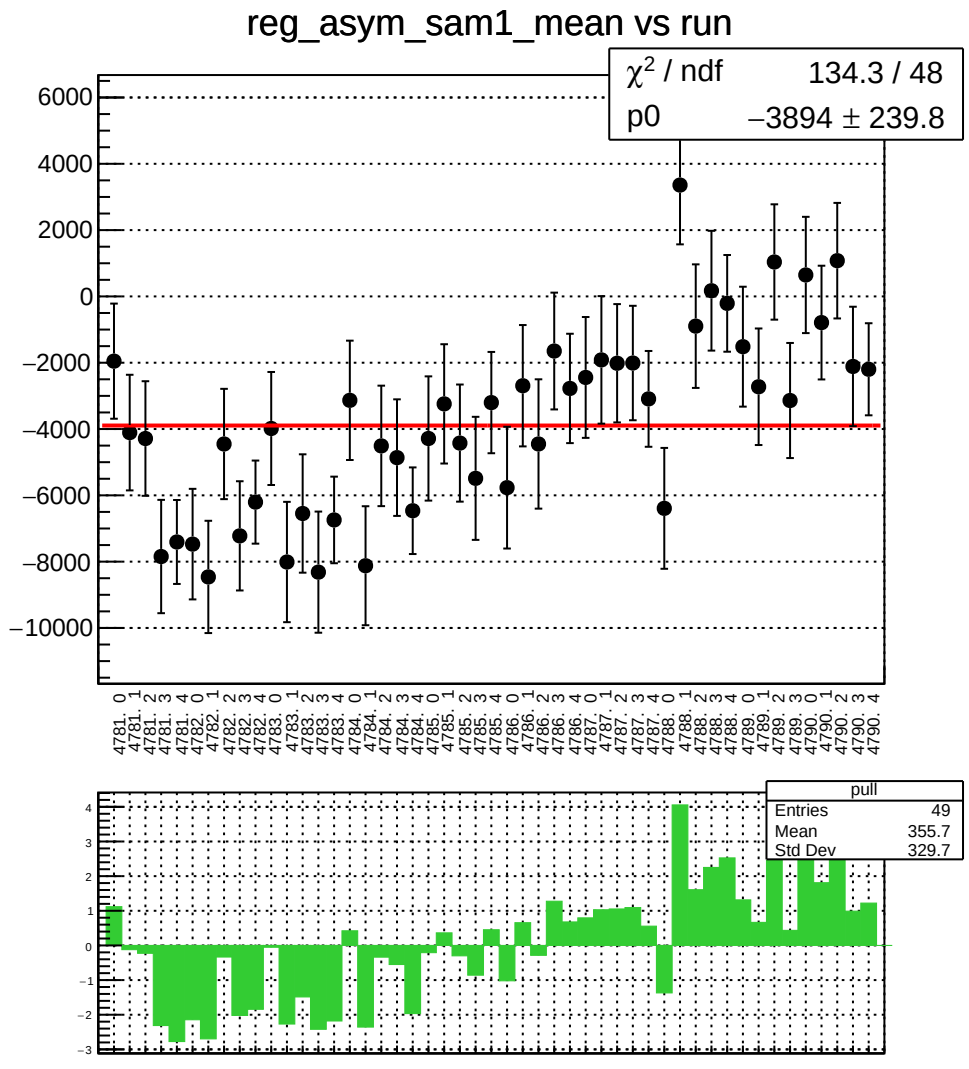

cor_sam6_rms vs run
χ² / ndf 670.8 / 48
p0 2100 ± 2.114
2200
2150
2100
2050
2000
1950
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

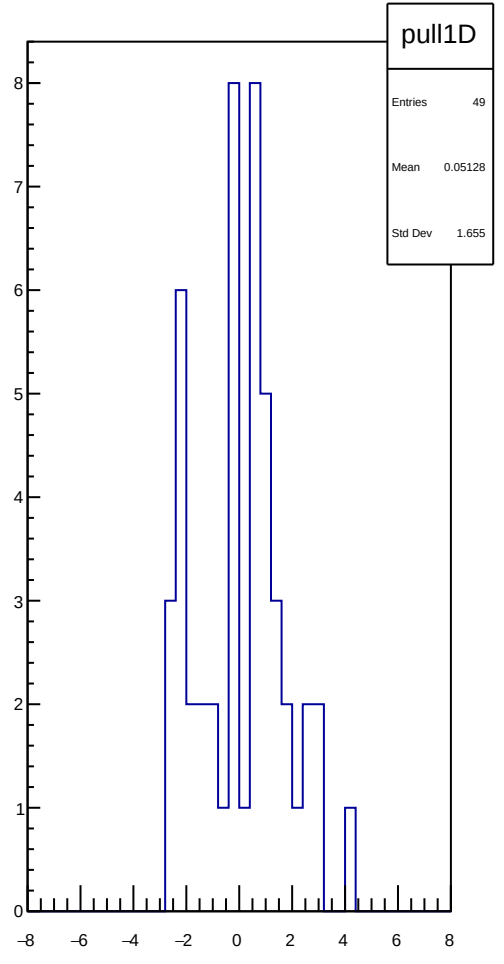

cor_sam7_mean vs run
χ² / ndf 31.43 / 48
p0 −9240 ± 2403
40000
20000
0
−20000
−40000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −576.7
Std Dev 600.1
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 49
Mean −0.003691
Std Dev 0.8009
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

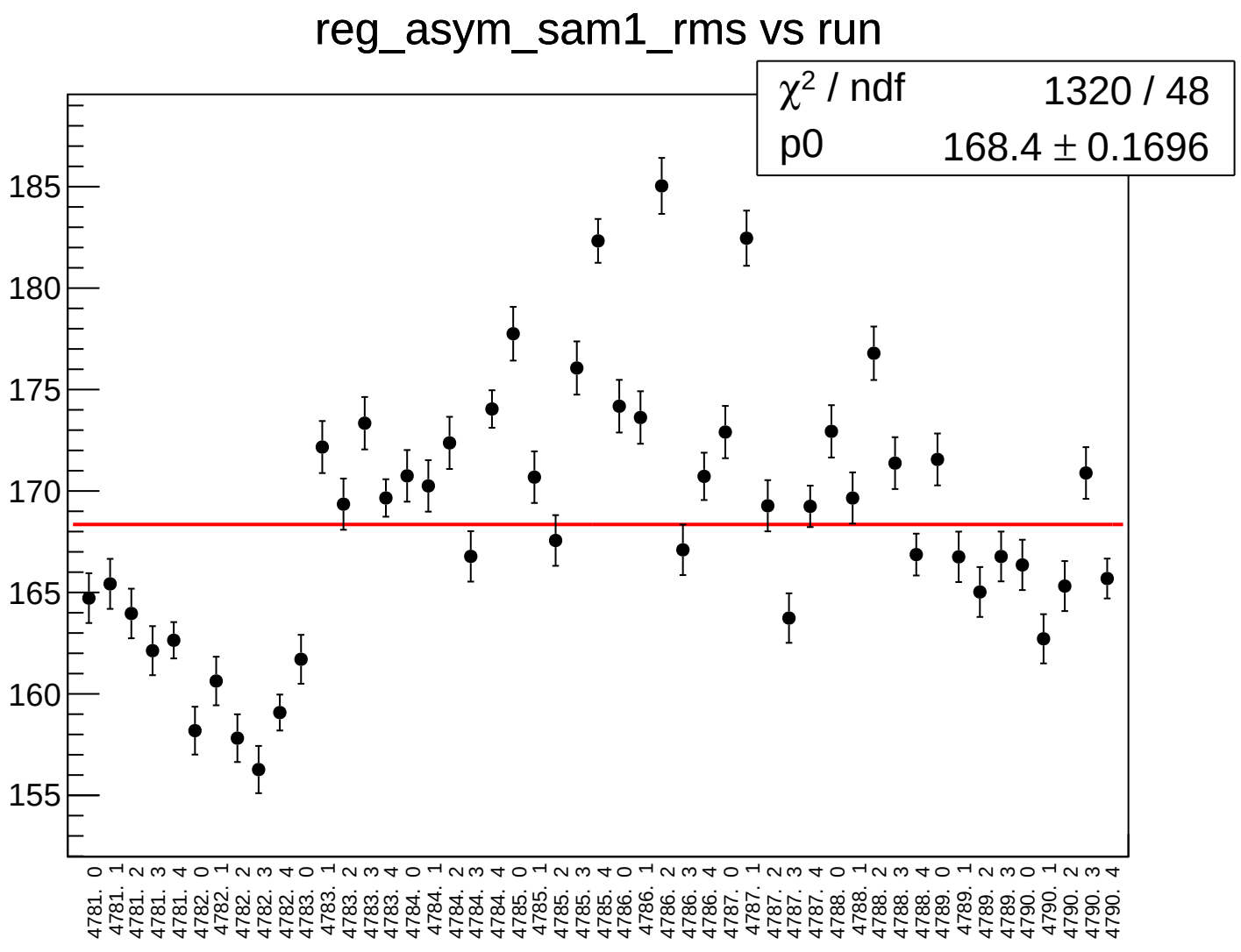

cor_sam7_rms vs run
χ² / ndf 614.1 / 48
p0 1687 ± 1.699
1800
1750
1700
1650
1600
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

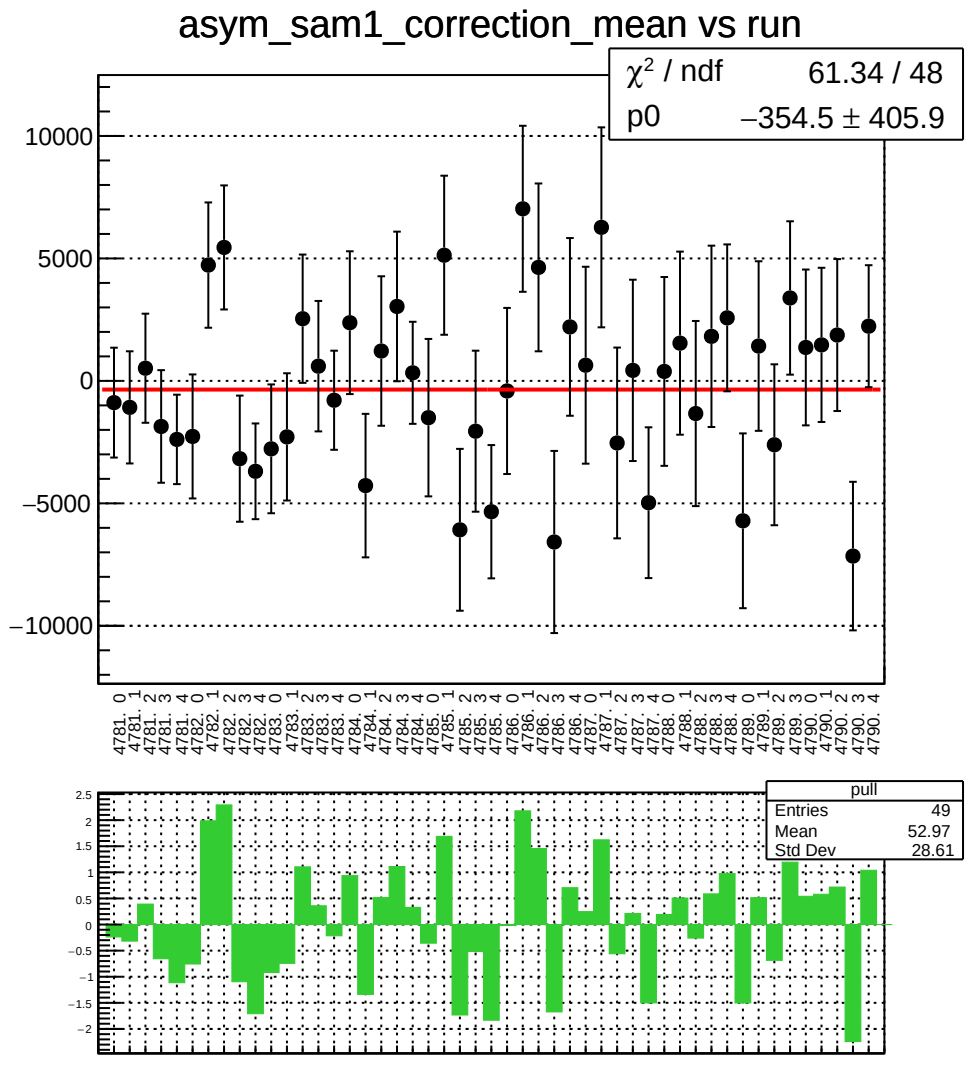

cor_sam8_mean vs run
χ² / ndf 36.69 / 48
p0 −8421 ± 1842
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −2879
Std Dev 2904
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 49
Mean −0.001024
Std Dev 0.8653
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

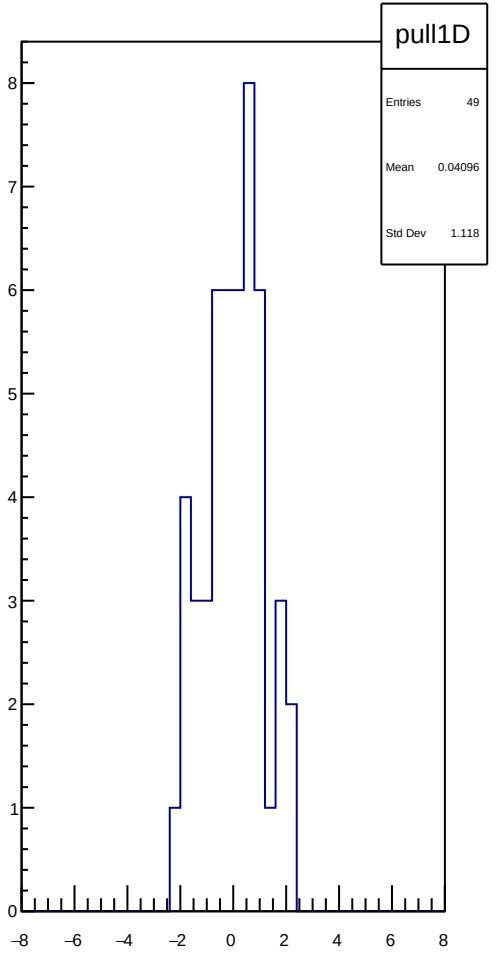

cor_sam8_rms vs run
χ² / ndf 508.3 / 48
p0 1294 ± 1.302
1400
1380
1360
1340
1320
1300
1280
1260
1240
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

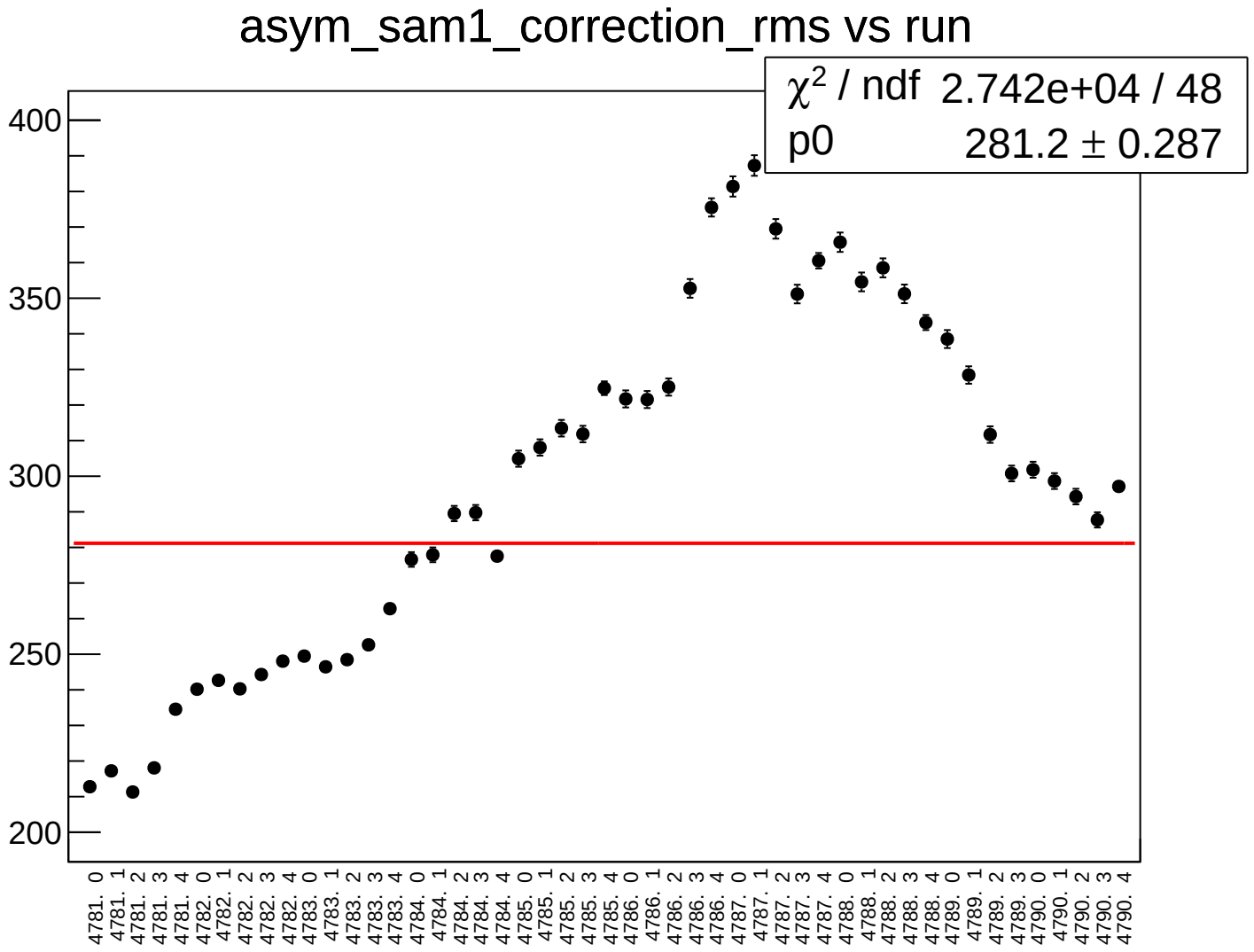

reg_asym_sam1_mean vs run
χ² / ndf 134.3 / 48
p0 −3894 ± 239.8
pull
Entries 49
Mean 355.7
Std Dev 329.7

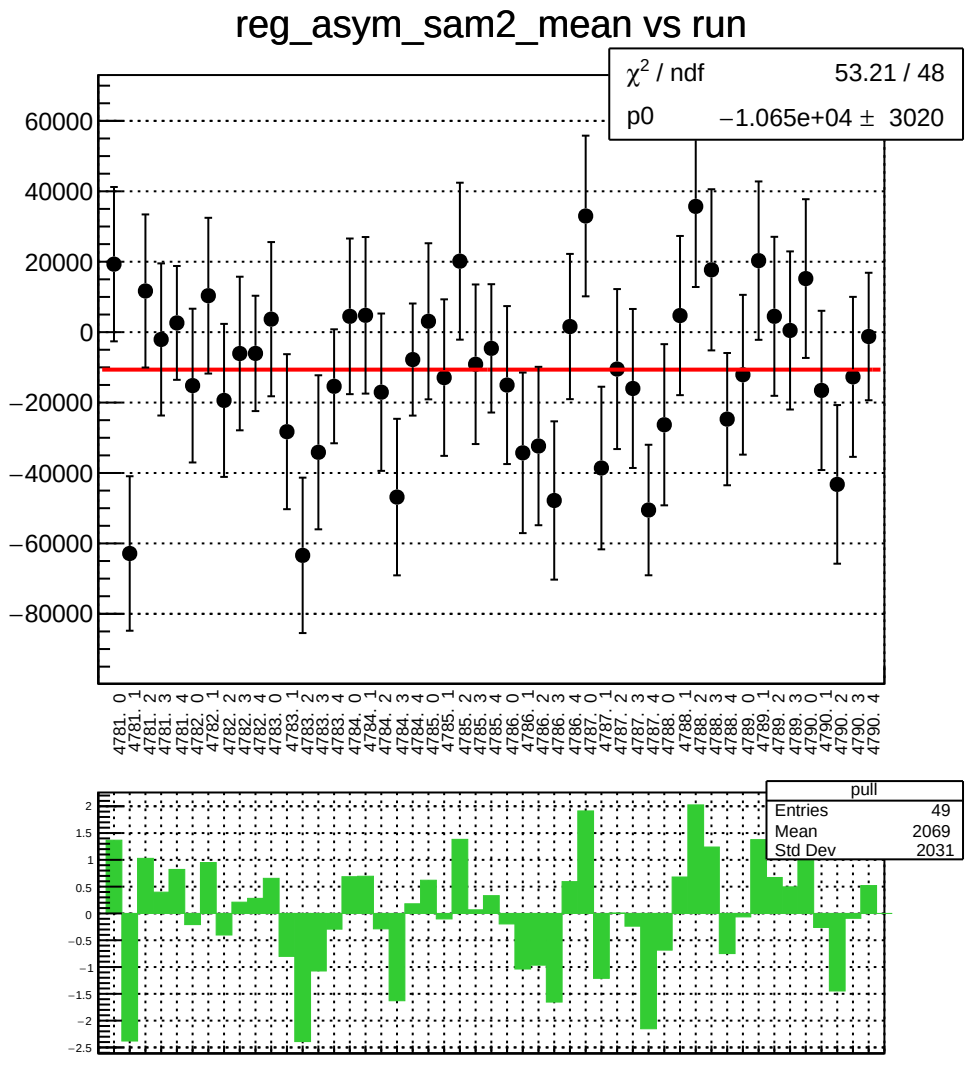

pull1D
Entries 49
Mean 0.05128
Std Dev 1.655

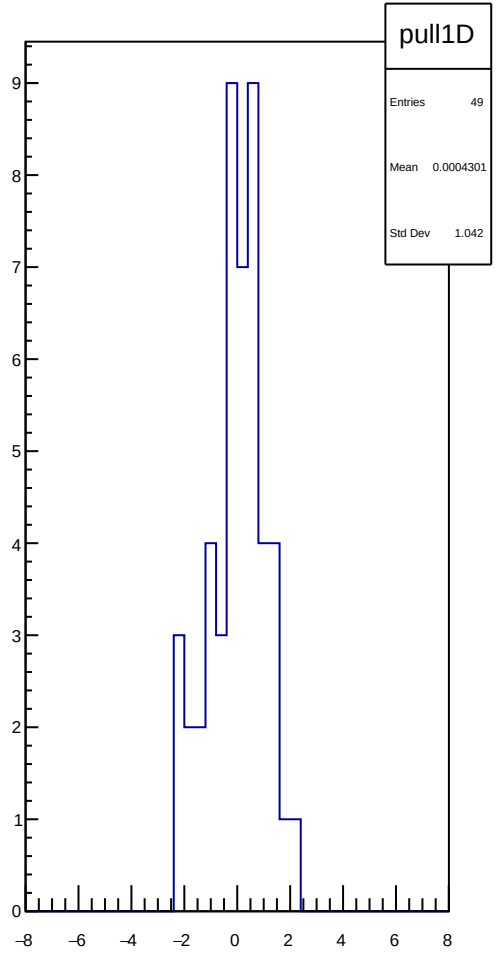

reg_asym_sam1_rms vs run
χ² / ndf 1320 / 48
p0 168.4 ± 0.1696
185
180
175
170
165
160
155
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

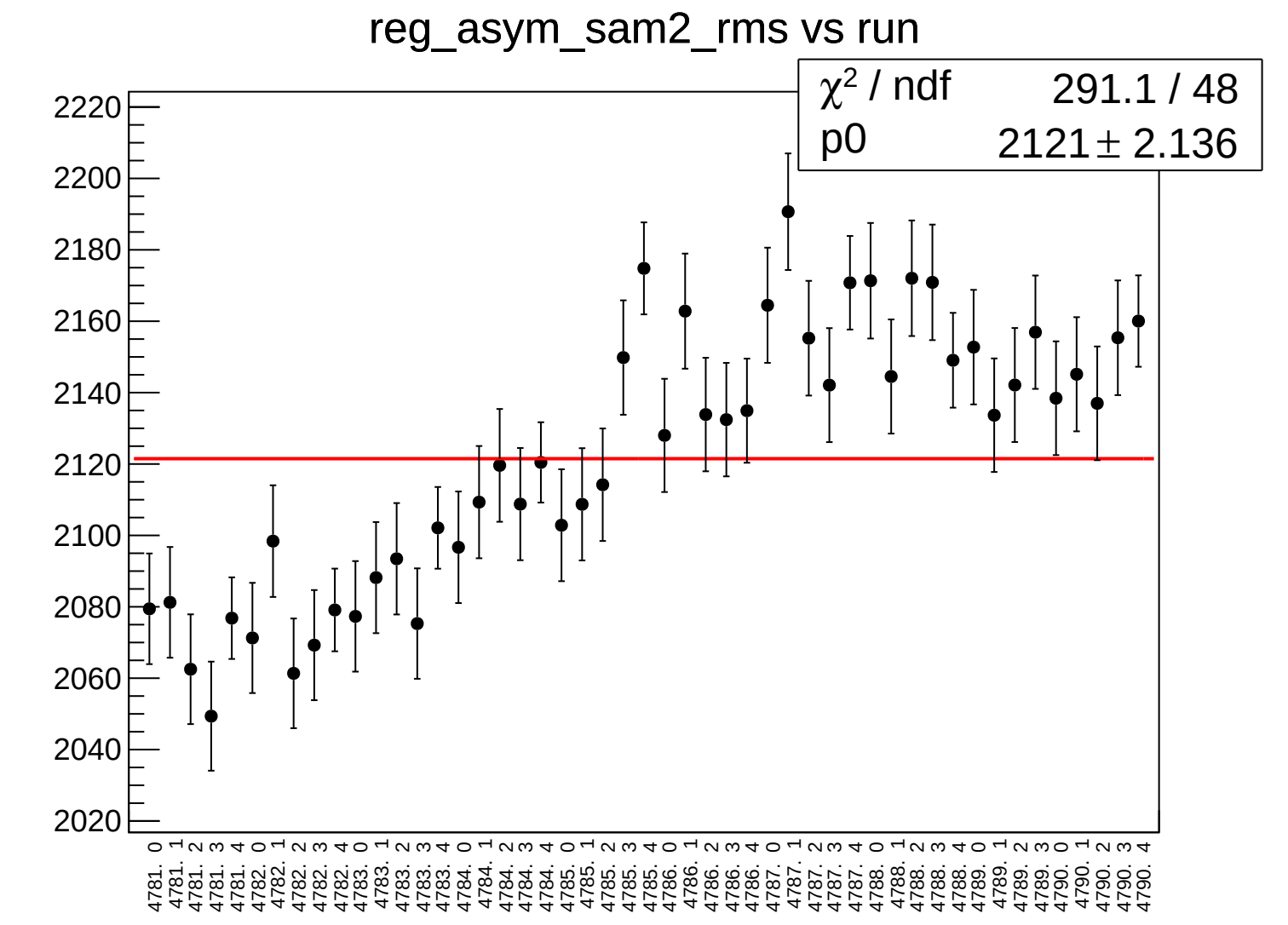

asym_sam1_correction_mean vs run
χ² / ndf 61.34 / 48
p0 −354.5 ± 405.9
10000
5000
0
−5000
−10000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 52.97
Std Dev 28.61
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 49
Mean 0.04096
Std Dev 1.118
8
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 2.742e+04 / 48
p0 281.2 ± 0.287
400
350
300
250
200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


reg_asym_sam2_mean vs run
χ² / ndf 53.21 / 48
p0 −1.065e+04 ± 3020
pull
Entries 49
Mean 2069
Std Dev 2031


pull1D
Entries 49
Mean 0.0004301
Std Dev 1.042


reg_asym_sam2_rms vs run
χ² / ndf 291.1 / 48
p0 2121 ± 2.136
2220
2200
2180
2160
2140
2120
2100
2080
2060
2040
2020
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
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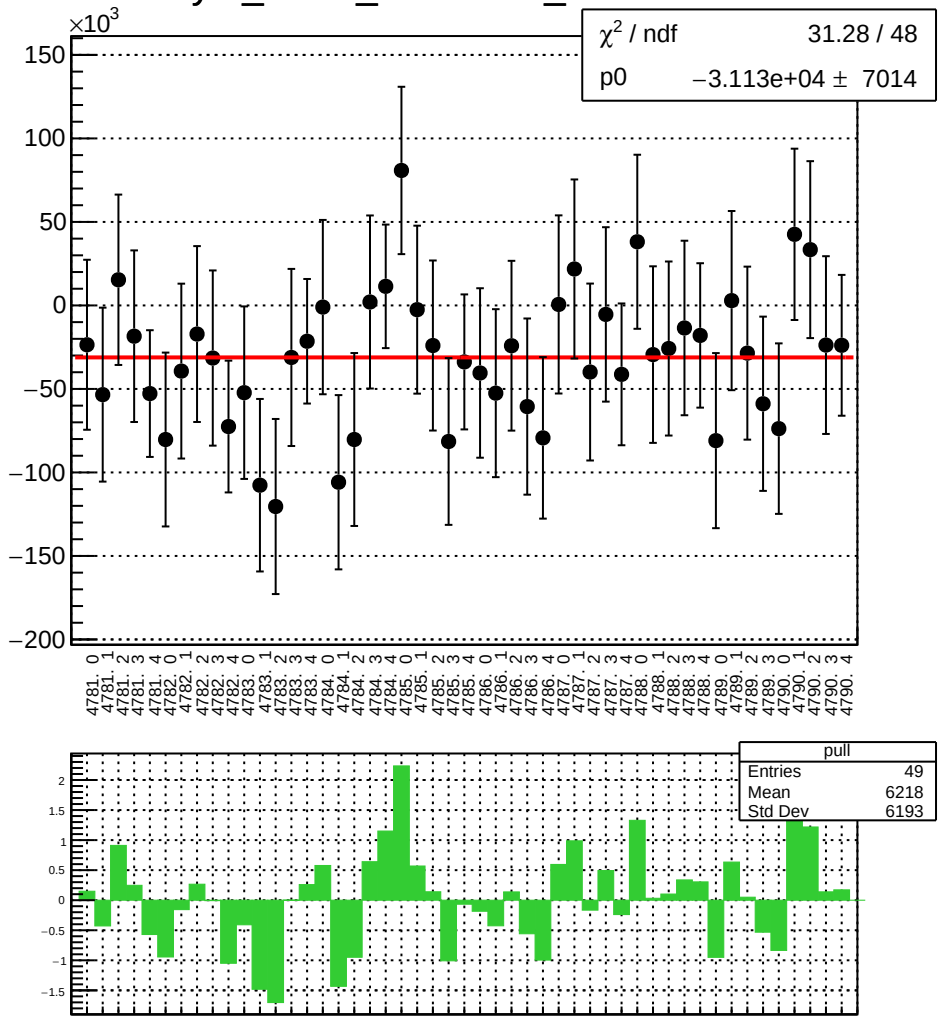
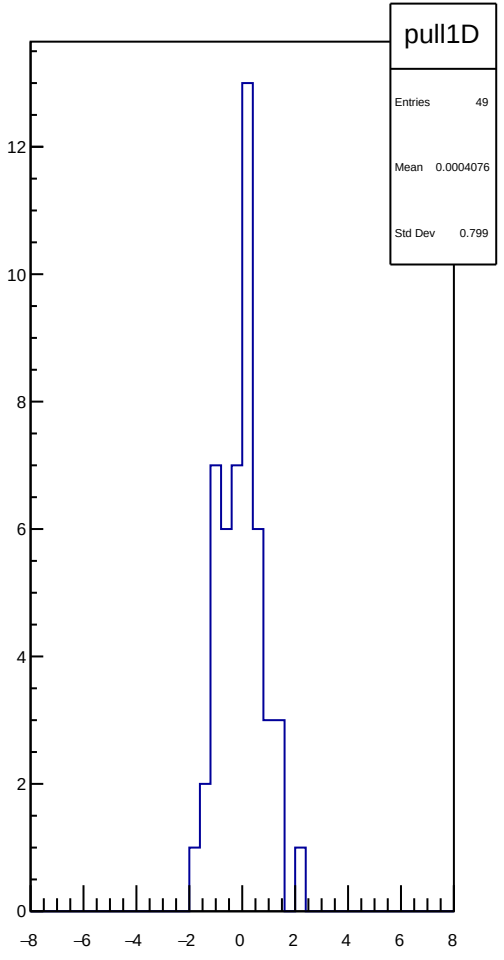
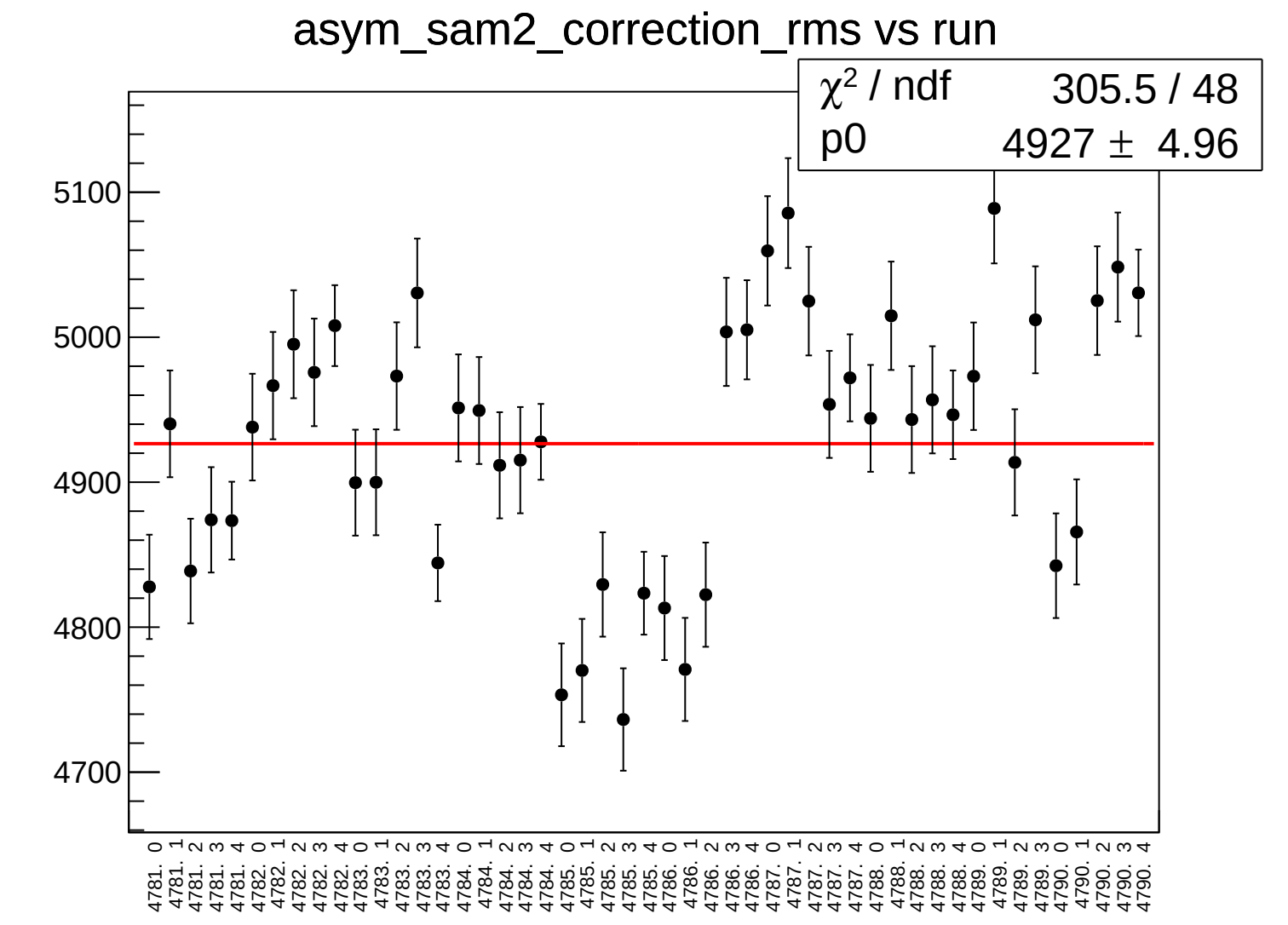
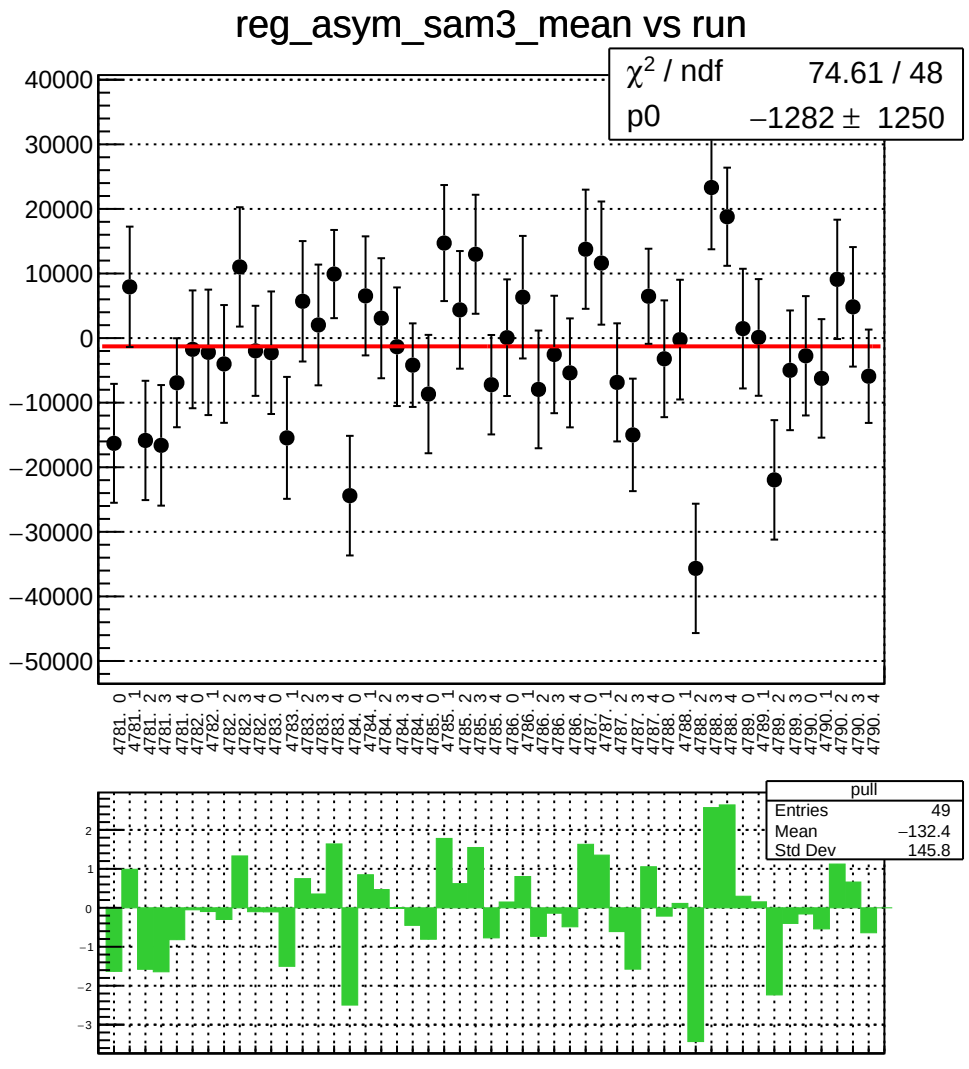
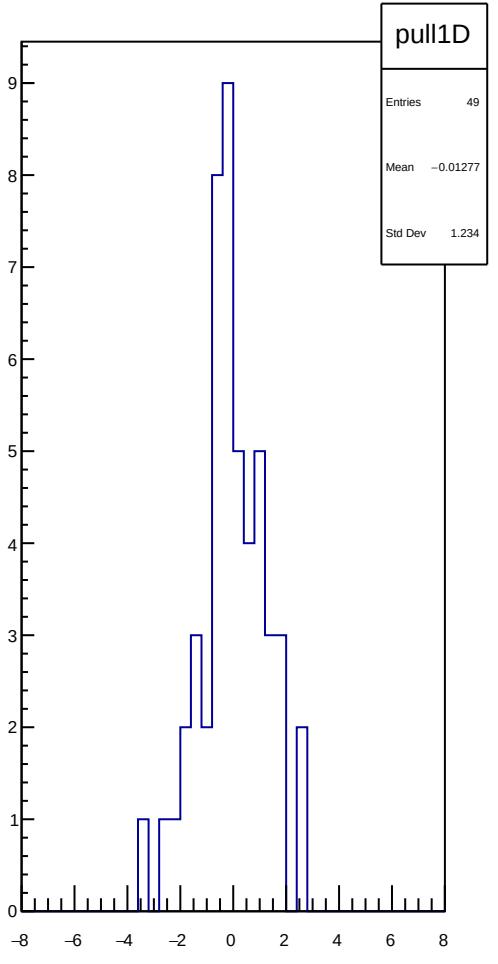
4790. 3
4790. 4

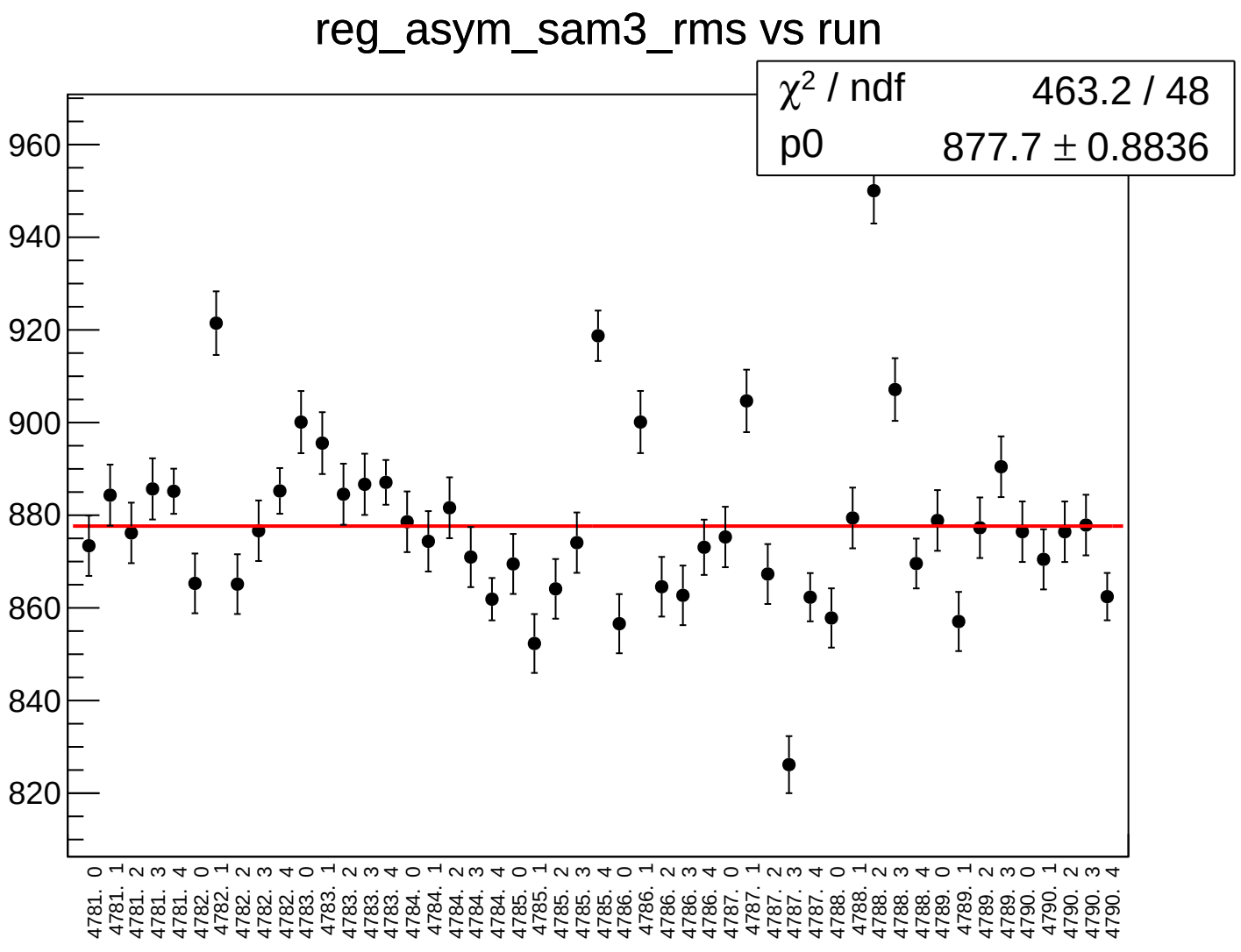

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 31.28 / 48
p0 −3.113e+04 ± 7014
150
100
50
0
−50
−100
−150
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 6218
Std Dev 6193
2
1.5
1
0.5
0
−0.5
−1
−1.5

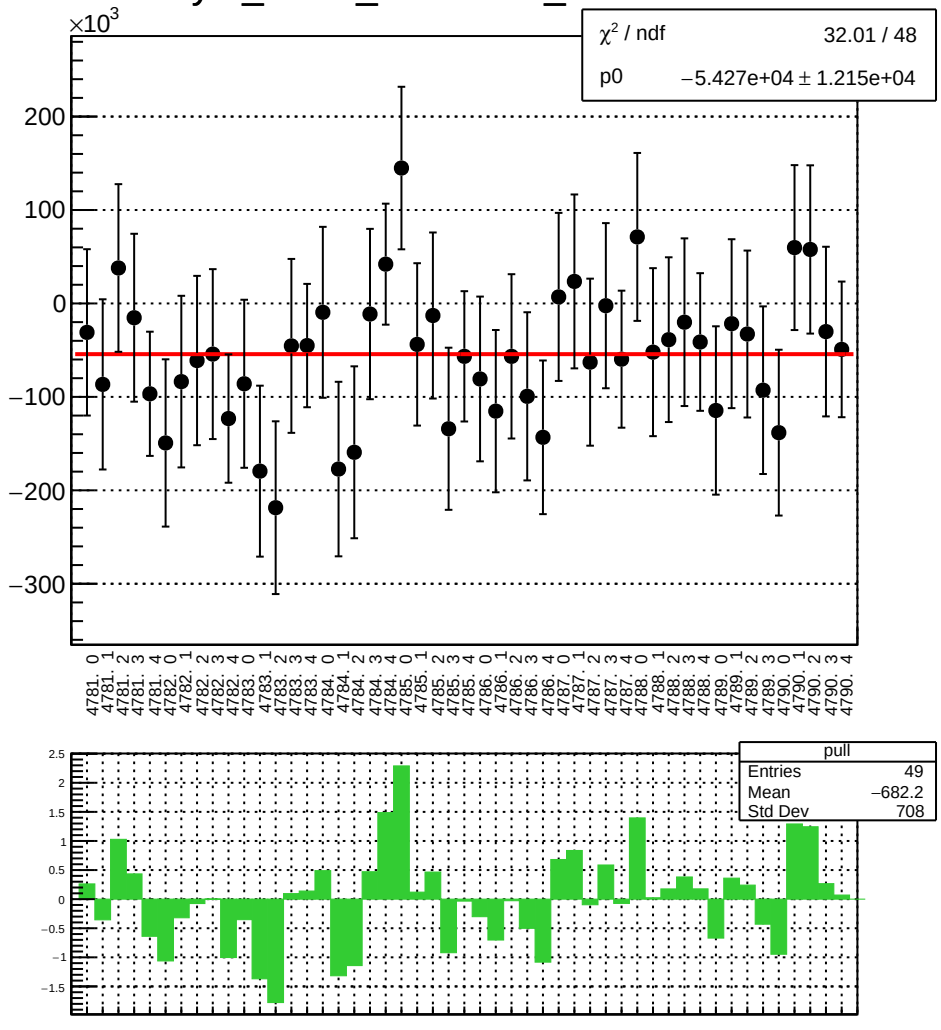

pull1D
Entries 49
Mean 0.0004076
Std Dev 0.799
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

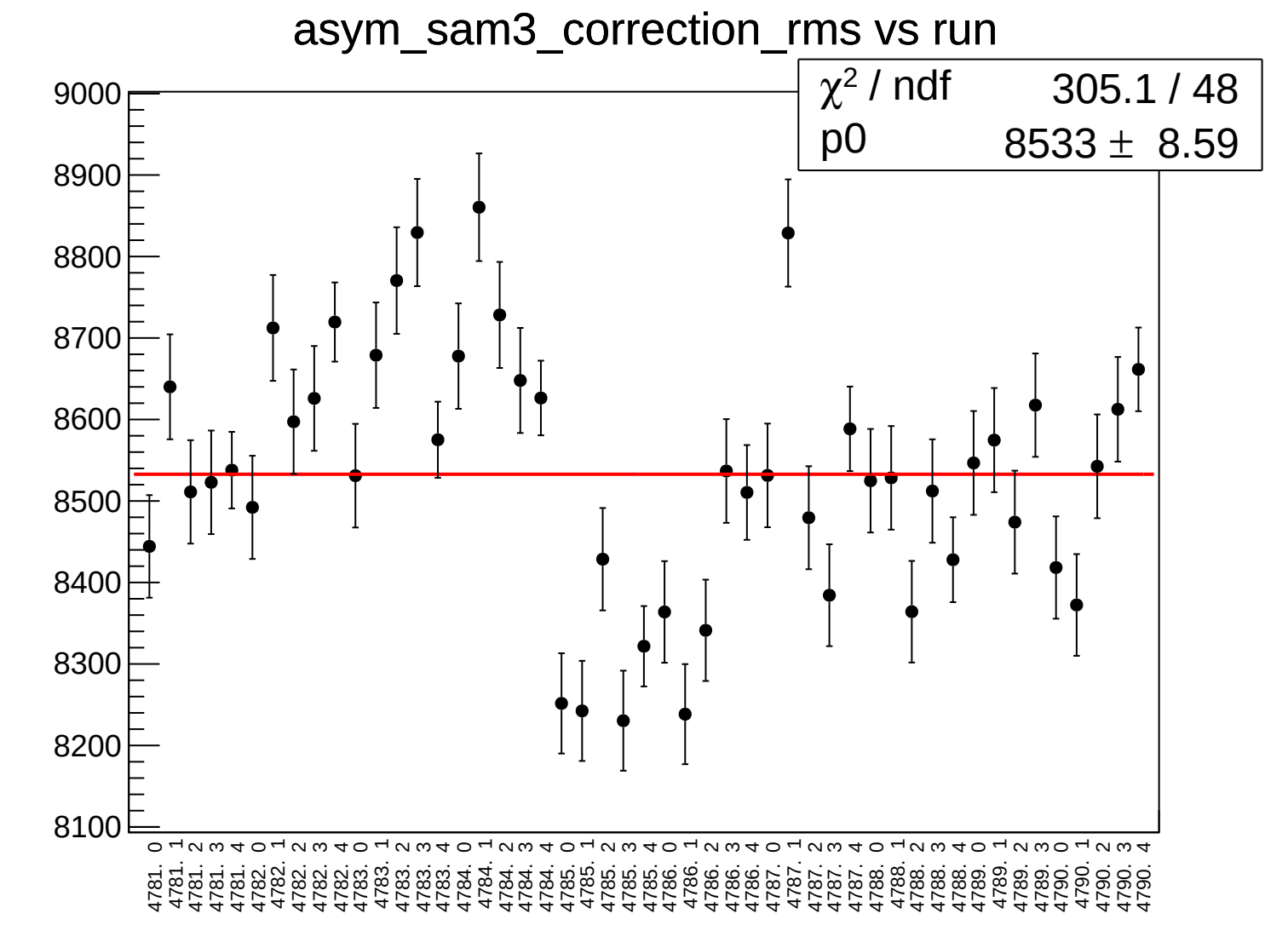

asym_sam2_correction_rms vs run
χ² / ndf 305.5 / 48
p0 4927 ± 4.96
5100
5000
4900
4800
4700
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

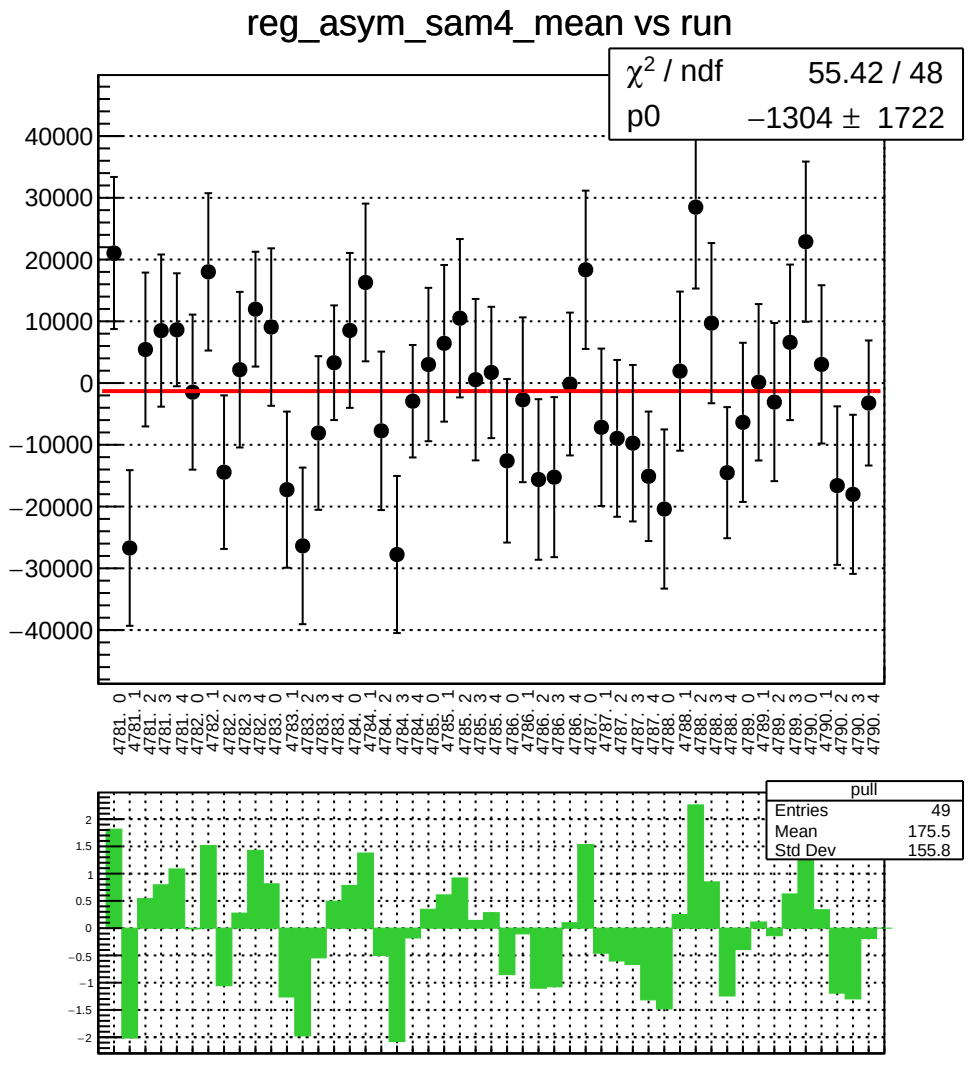

reg_asym_sam3_mean vs run
χ² / ndf 74.61 / 48
p0 −1282 ± 1250
pull
Entries 49
Mean −132.4
Std Dev 145.8

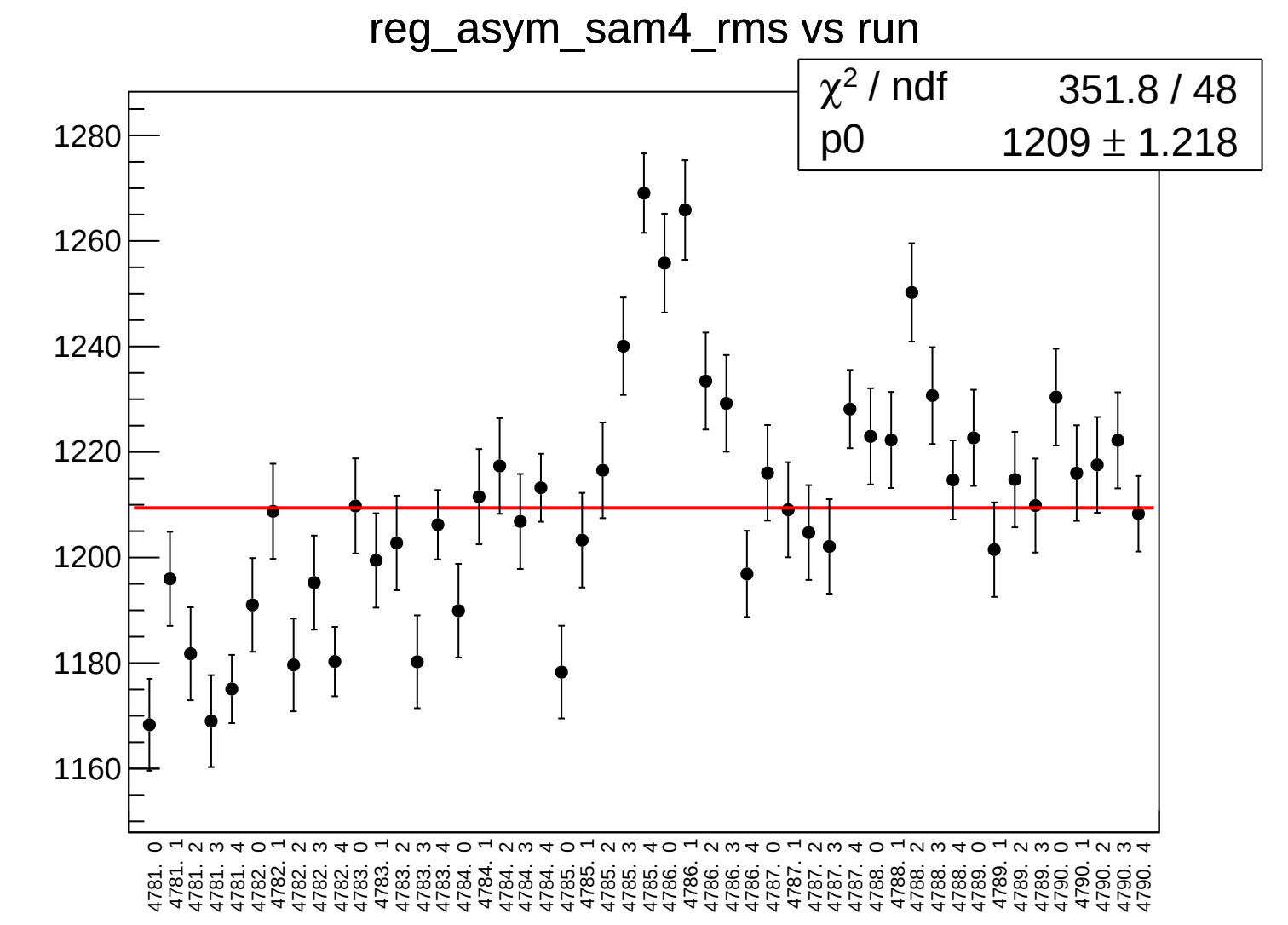

pull1D
Entries 49
Mean −0.01277
Std Dev 1.234

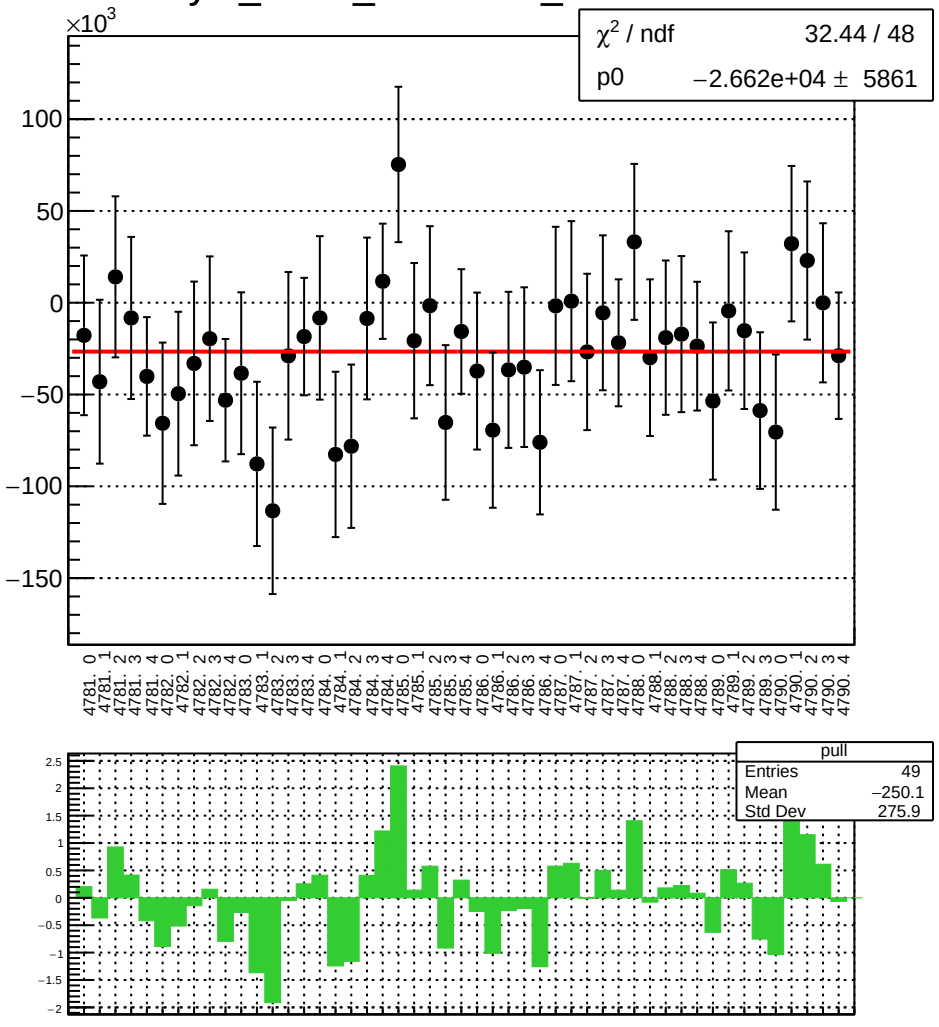

reg_asym_sam3_rms vs run
χ² / ndf 463.2 / 48
p0 877.7 ± 0.8836
960
940
920
900
880
860
840
820
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

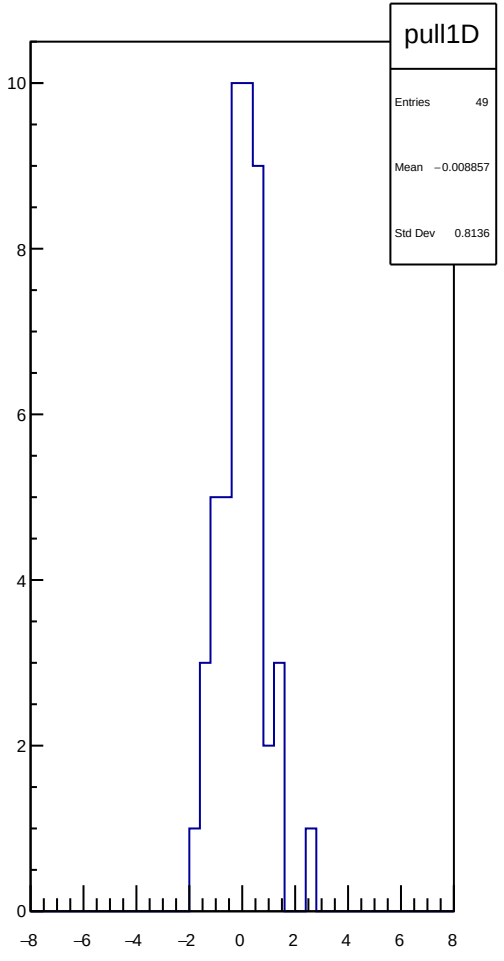

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 32.01 / 48
p0 −5.427e+04 ± 1.215e+04
200
100
0
−100
−200
−300
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −682.2
Std Dev 708
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 49
Mean −0.003654
Std Dev 0.8082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

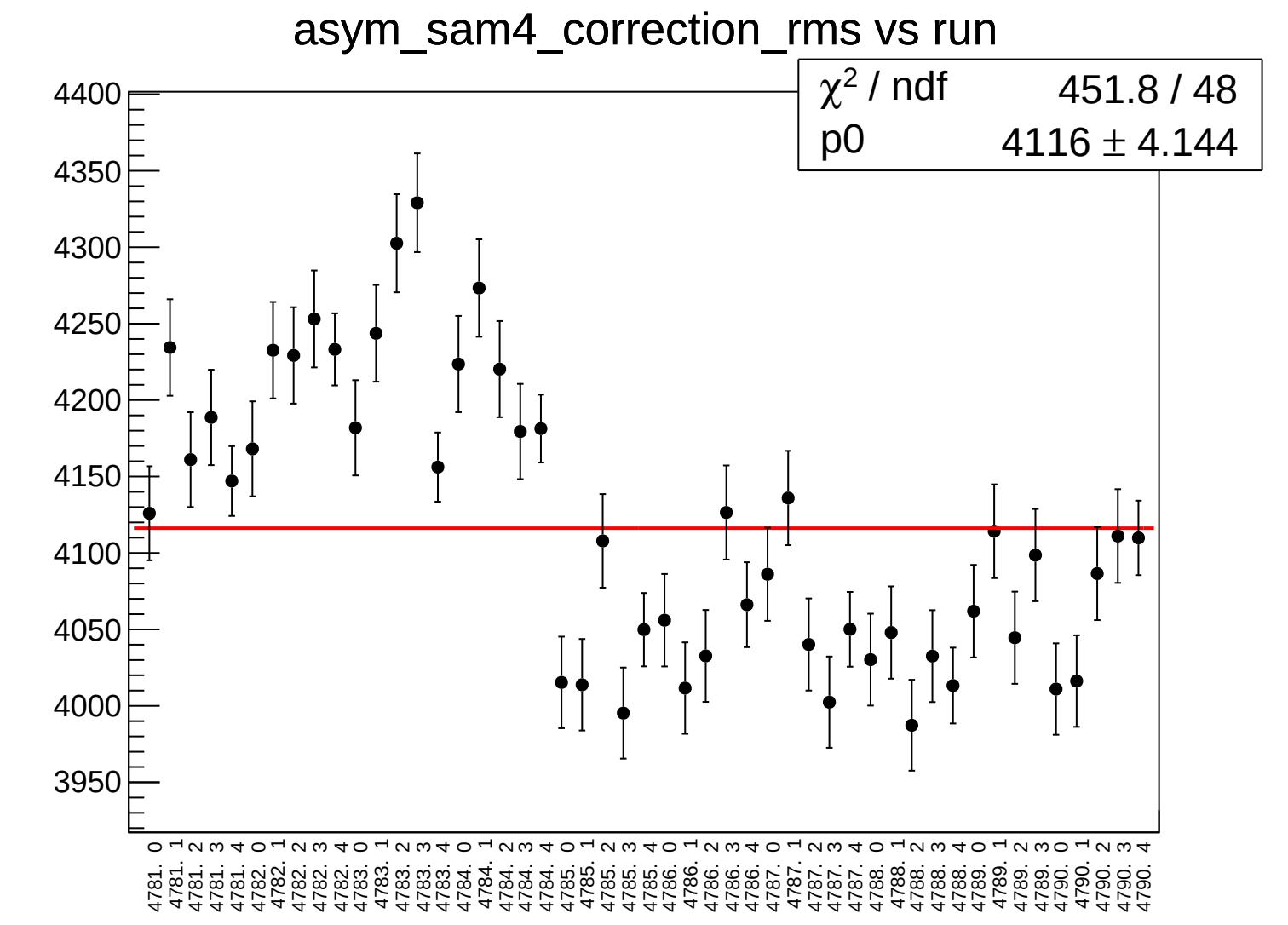

asym_sam3_correction_rms vs run
χ² / ndf 305.1 / 48
p0 8533 ± 8.59
9000
8900
8800
8700
8600
8500
8400
8300
8200
8100
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

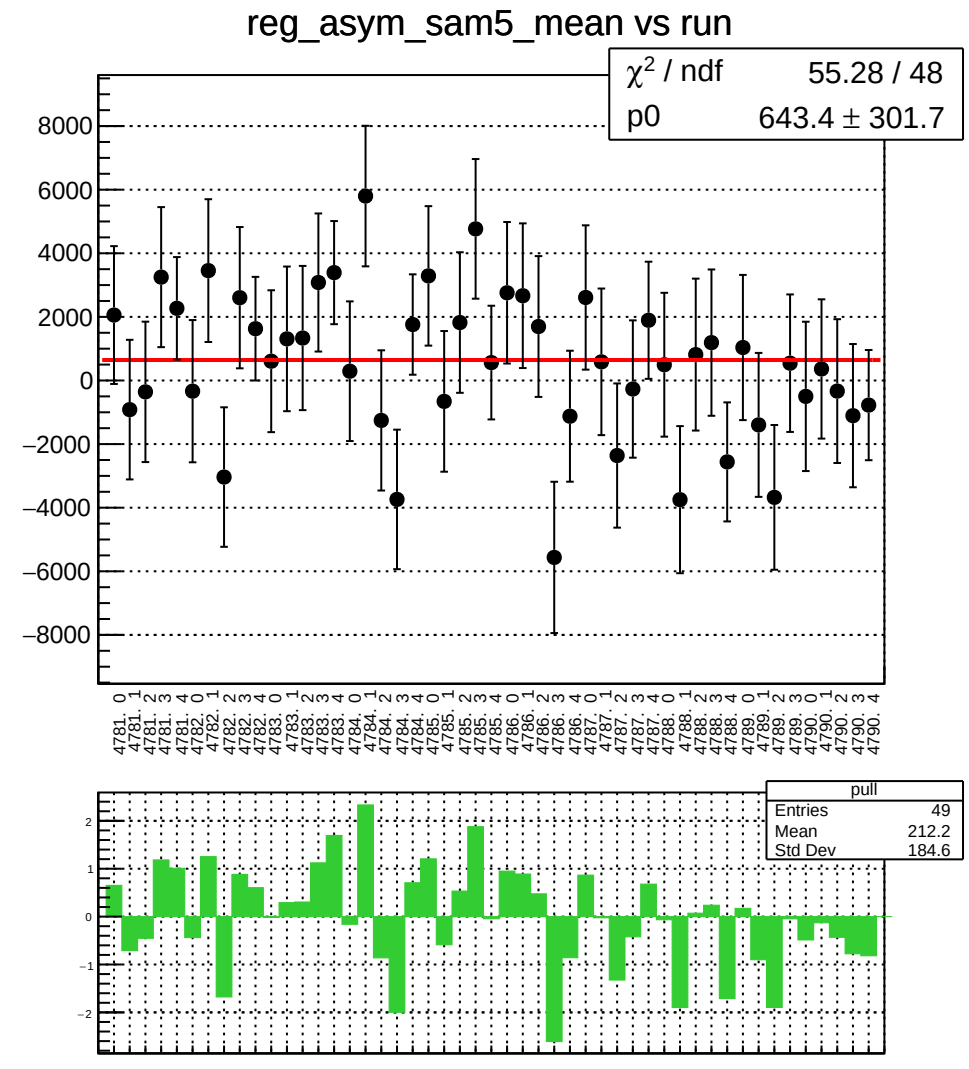

reg_asym_sam4_mean vs run
χ² / ndf 55.42 / 48
p0 −1304 ± 1722
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 175.5
Std Dev 155.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean −0.01176
Std Dev 1.063
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

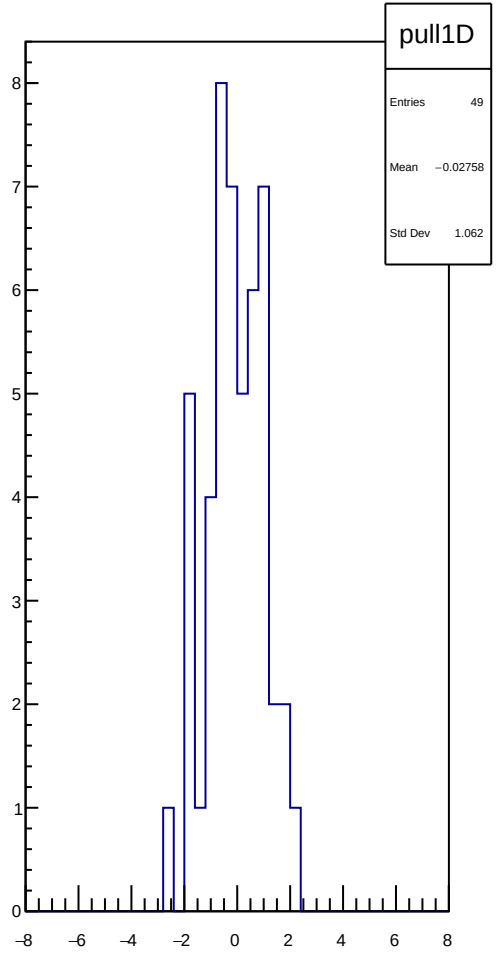

reg_asym_sam4_rms vs run
χ² / ndf 351.8 / 48
p0 1209 ± 1.218
1280
1260
1240
1220
1200
1180
1160
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

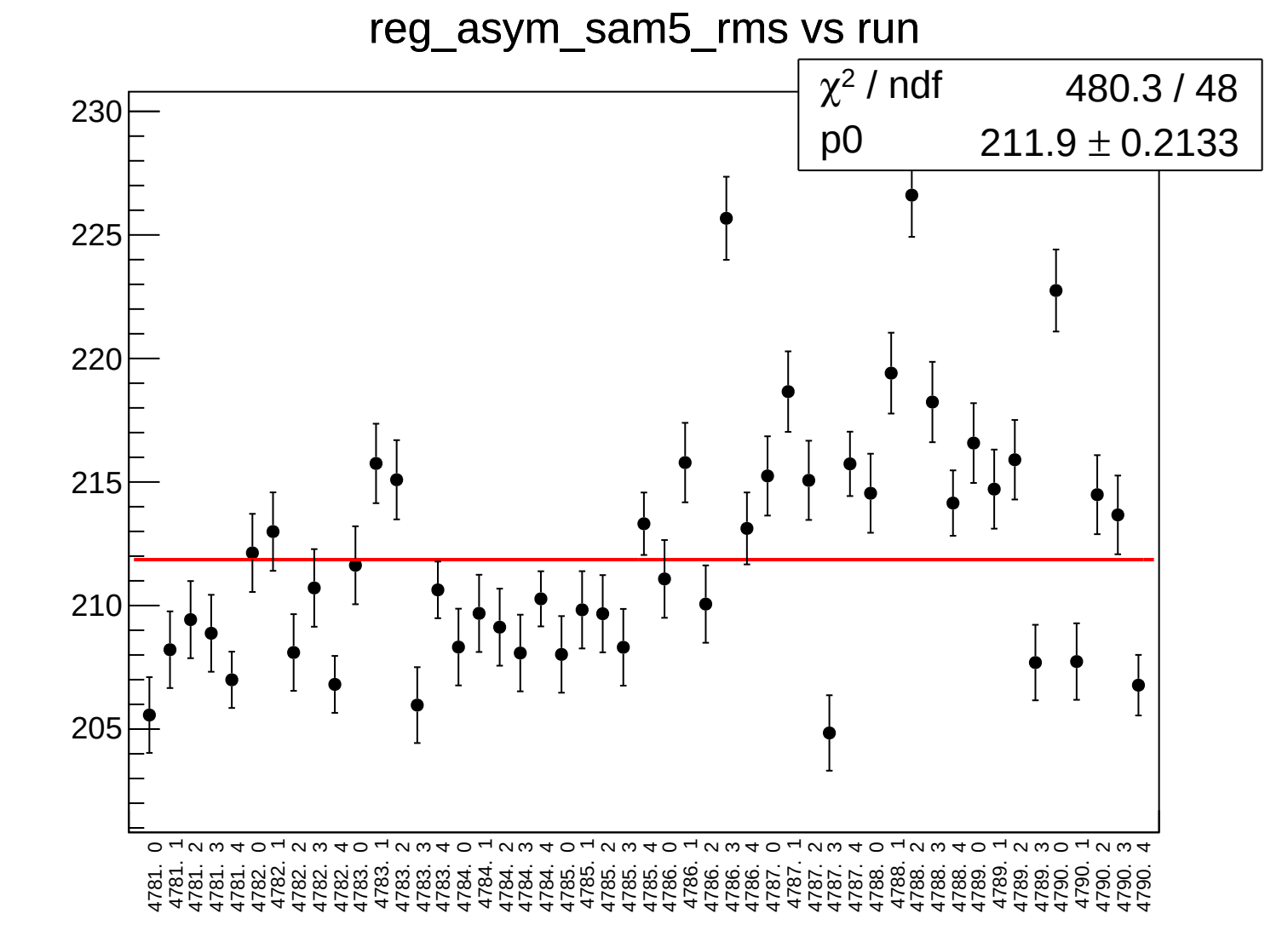

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 32.44 / 48
p0 −2.662e+04 ± 5861
100
50
0
−50
−100
−150
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −250.1
Std Dev 275.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

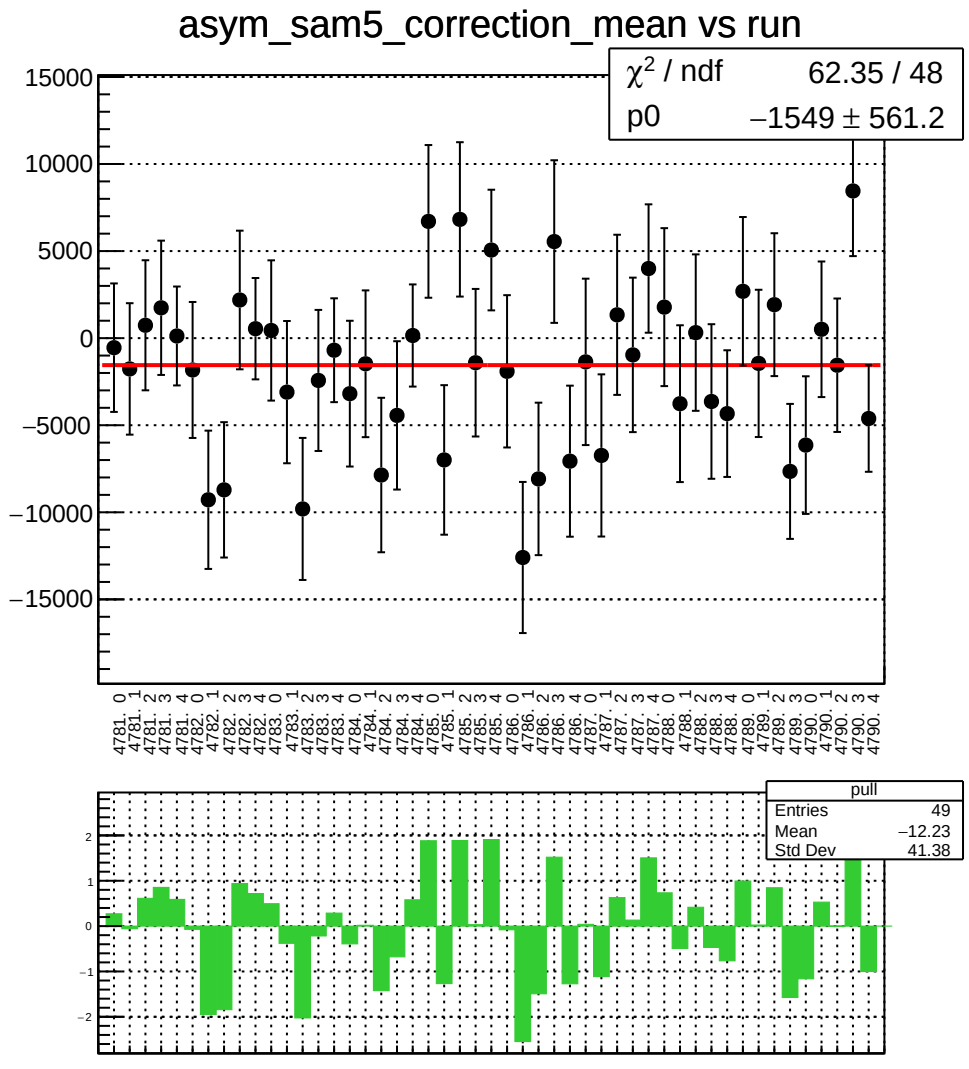

pull1D
Entries 49
Mean −0.008857
Std Dev 0.8136
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

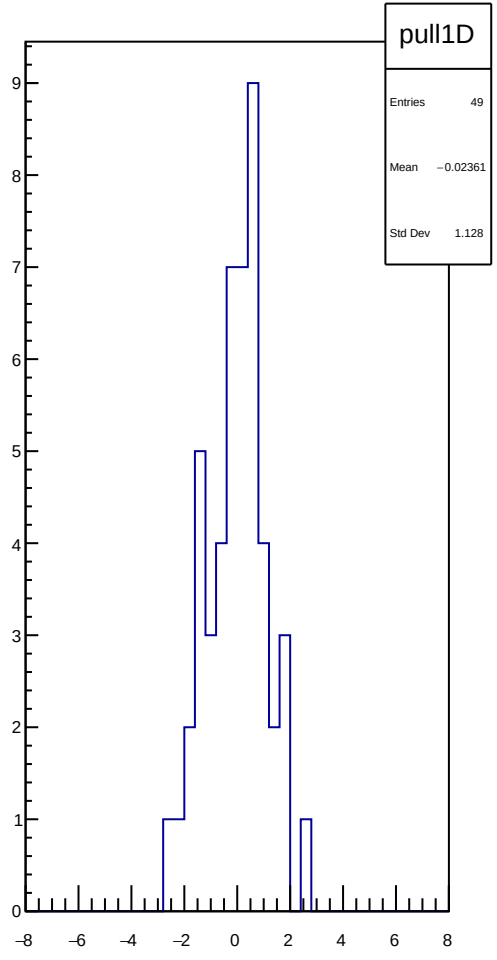

asym_sam4_correction_rms vs run
χ² / ndf 451.8 / 48
p0 4116 ± 4.144
4400
4350
4300
4250
4200
4150
4100
4050
4000
3950
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

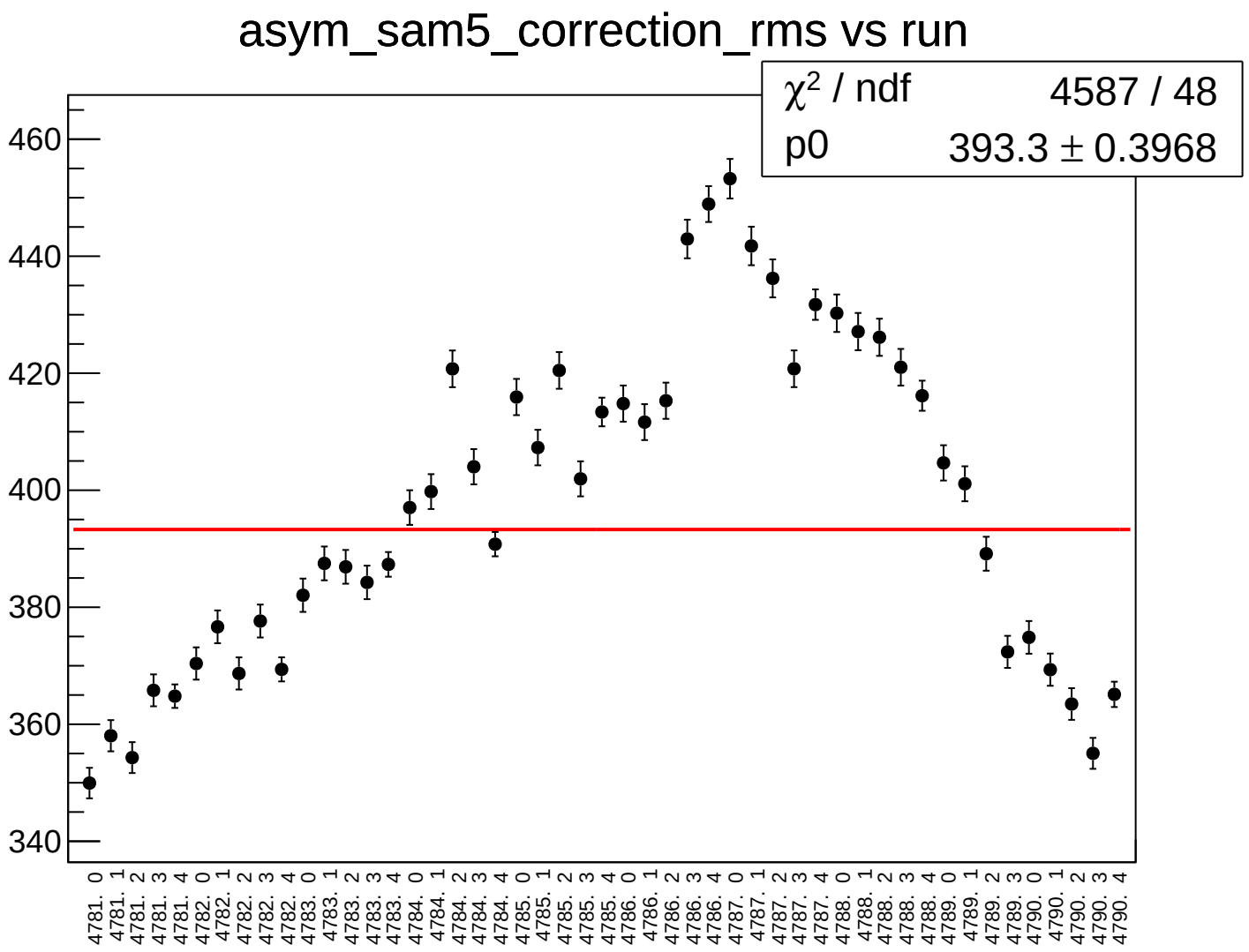

reg_asym_sam5_mean vs run
χ^2 / ndf 55.28 / 48
p0 643.4 ± 301.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 212.2
Std Dev 184.6
2
1
0
−1
−2

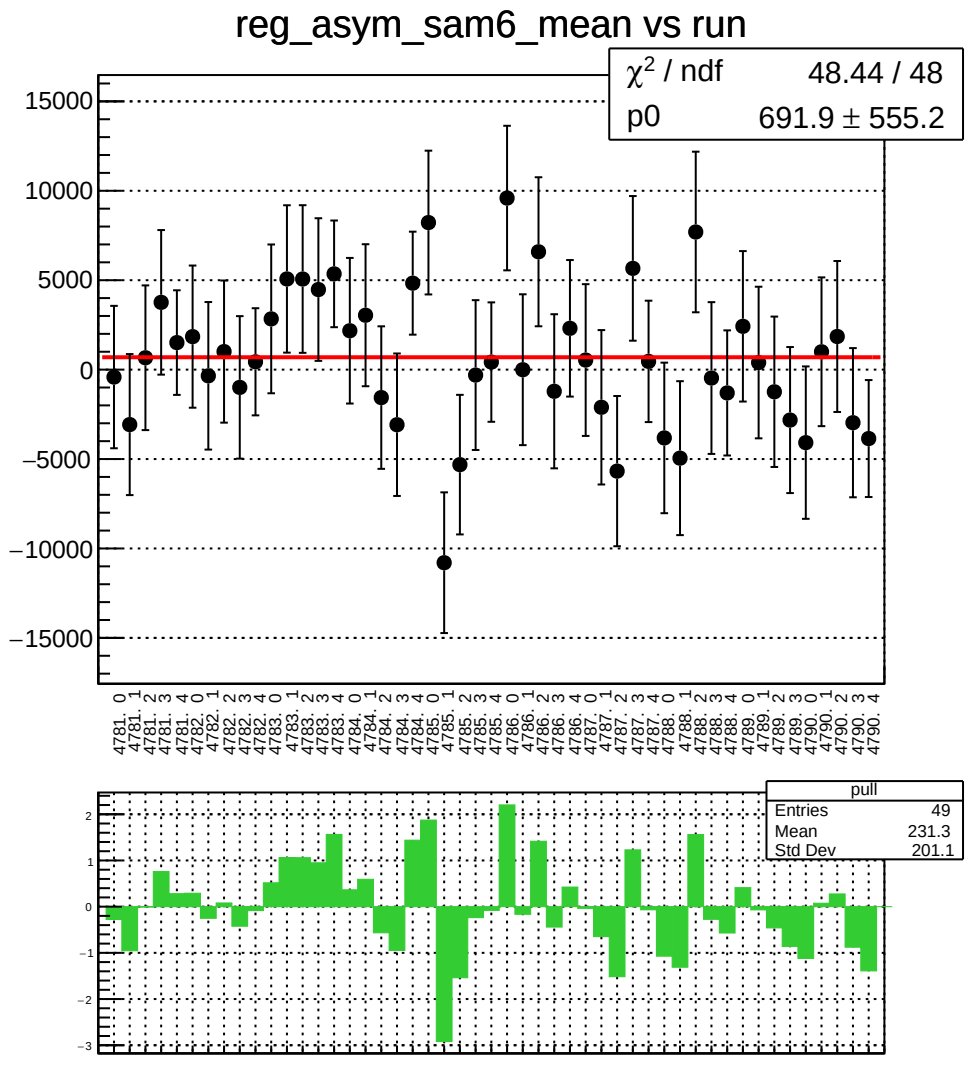

pull1D
Entries 49
Mean −0.02758
Std Dev 1.062
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

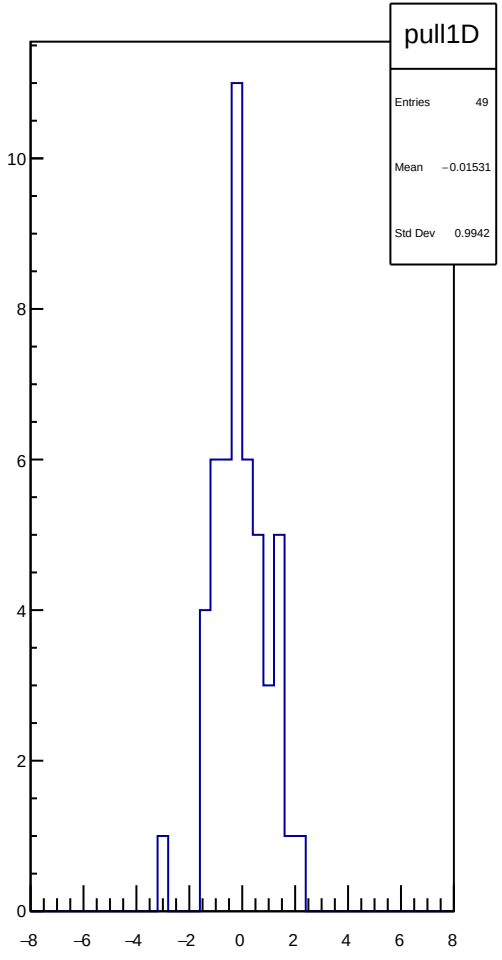

reg_asym_sam5_rms vs run
χ² / ndf 480.3 / 48
p0 211.9 ± 0.2133
230
225
220
215
210
205
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

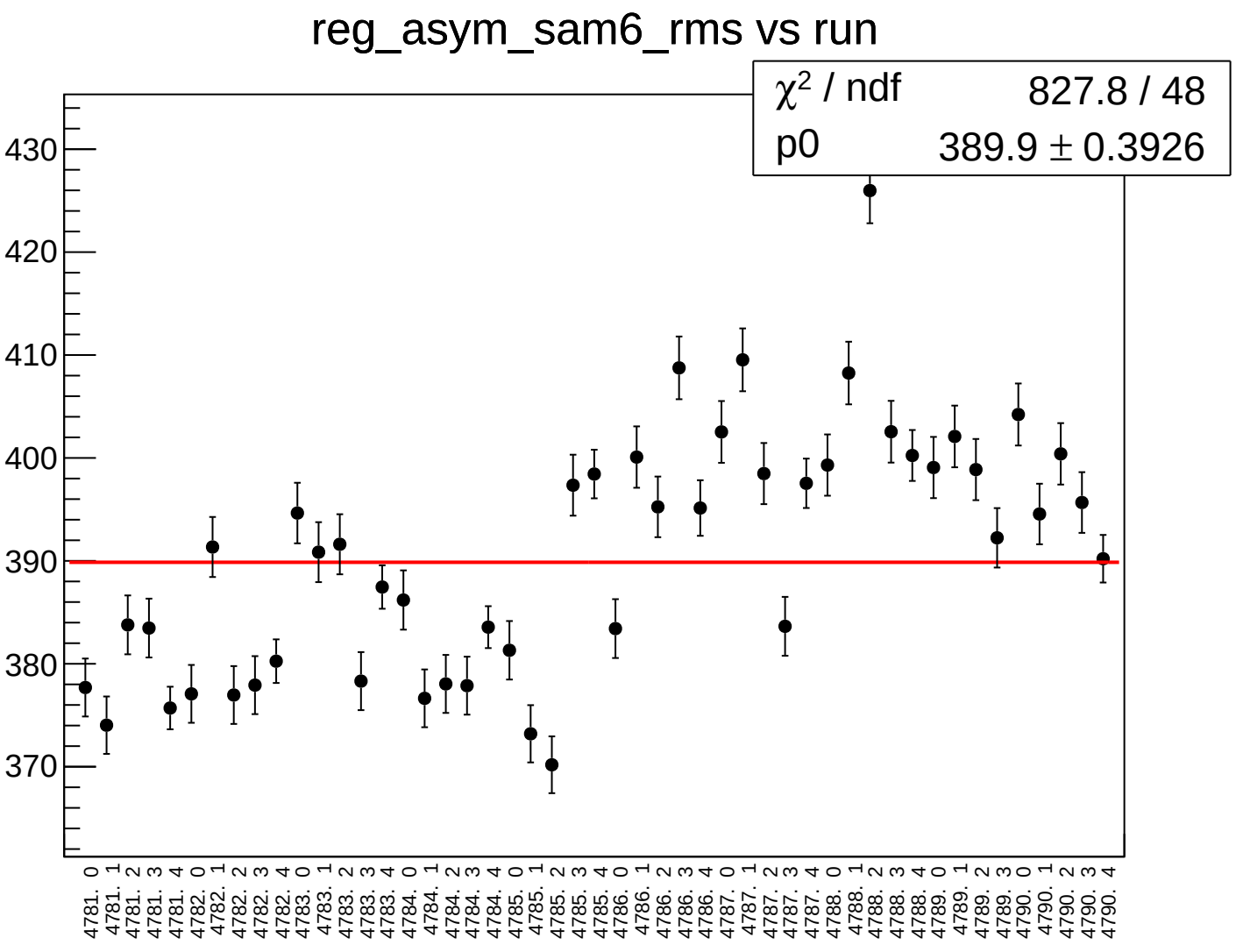

asym_sam5_correction_mean vs run
χ² / ndf 62.35 / 48
p0 −1549 ± 561.2
15000
10000
5000
0
−5000
−10000
−15000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −12.23
Std Dev 41.38
2
1
0
−1
−2

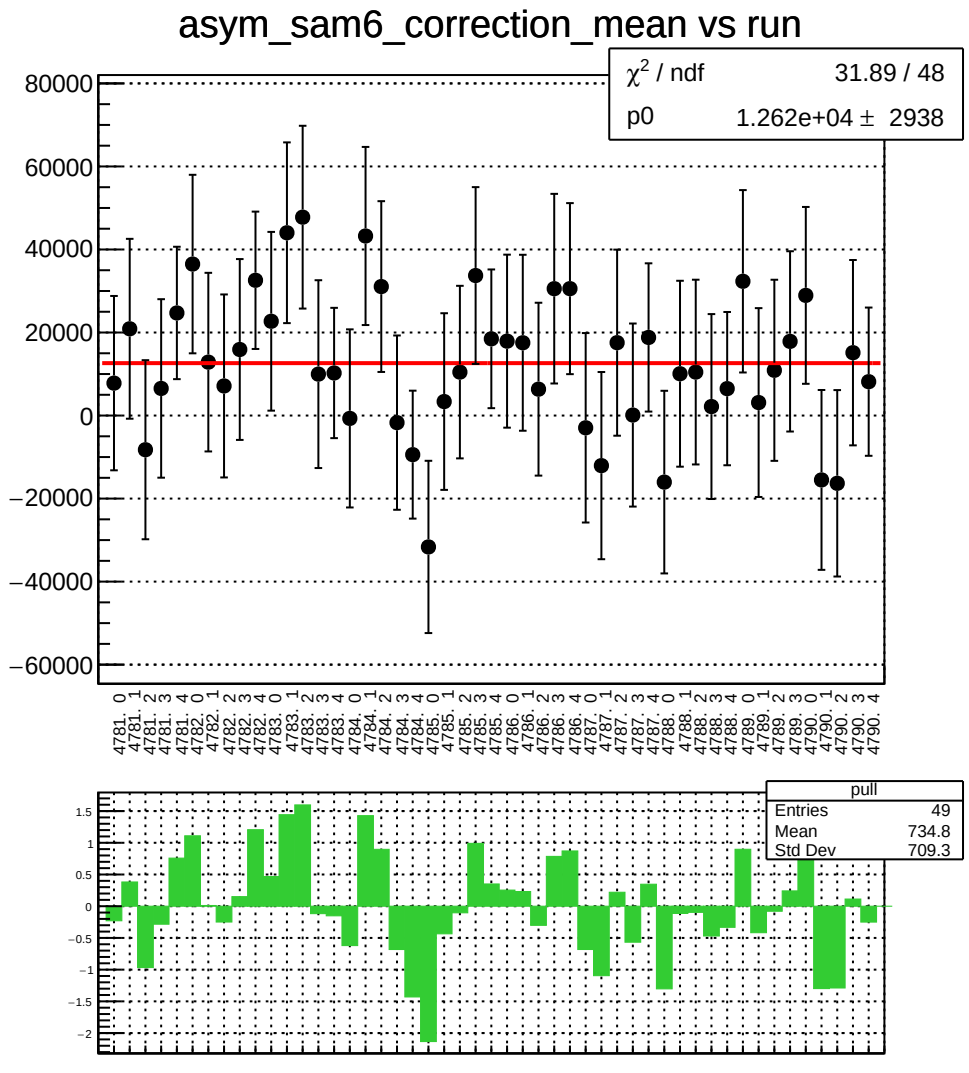

pull1D
Entries 49
Mean −0.02361
Std Dev 1.128
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

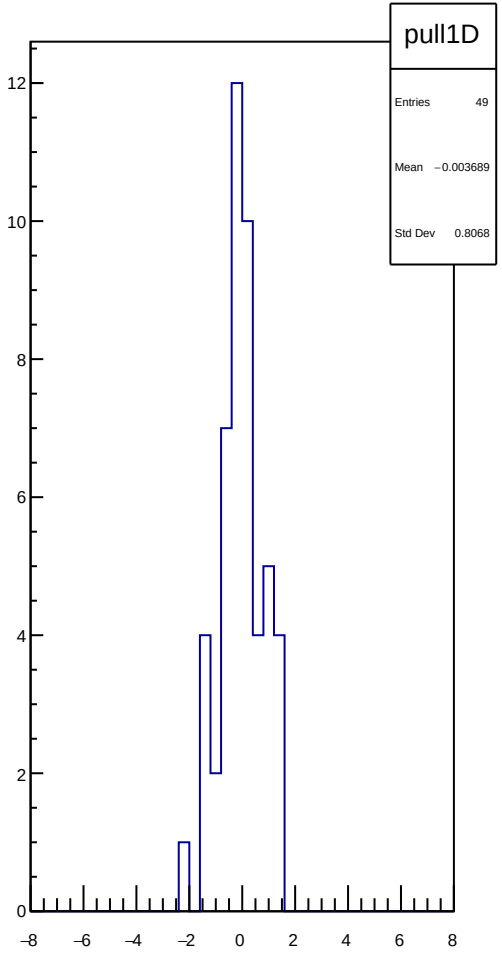

asym_sam5_correction_rms vs run
χ² / ndf 4587 / 48
p0 393.3 ± 0.3968
460
440
420
400
380
360
340
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

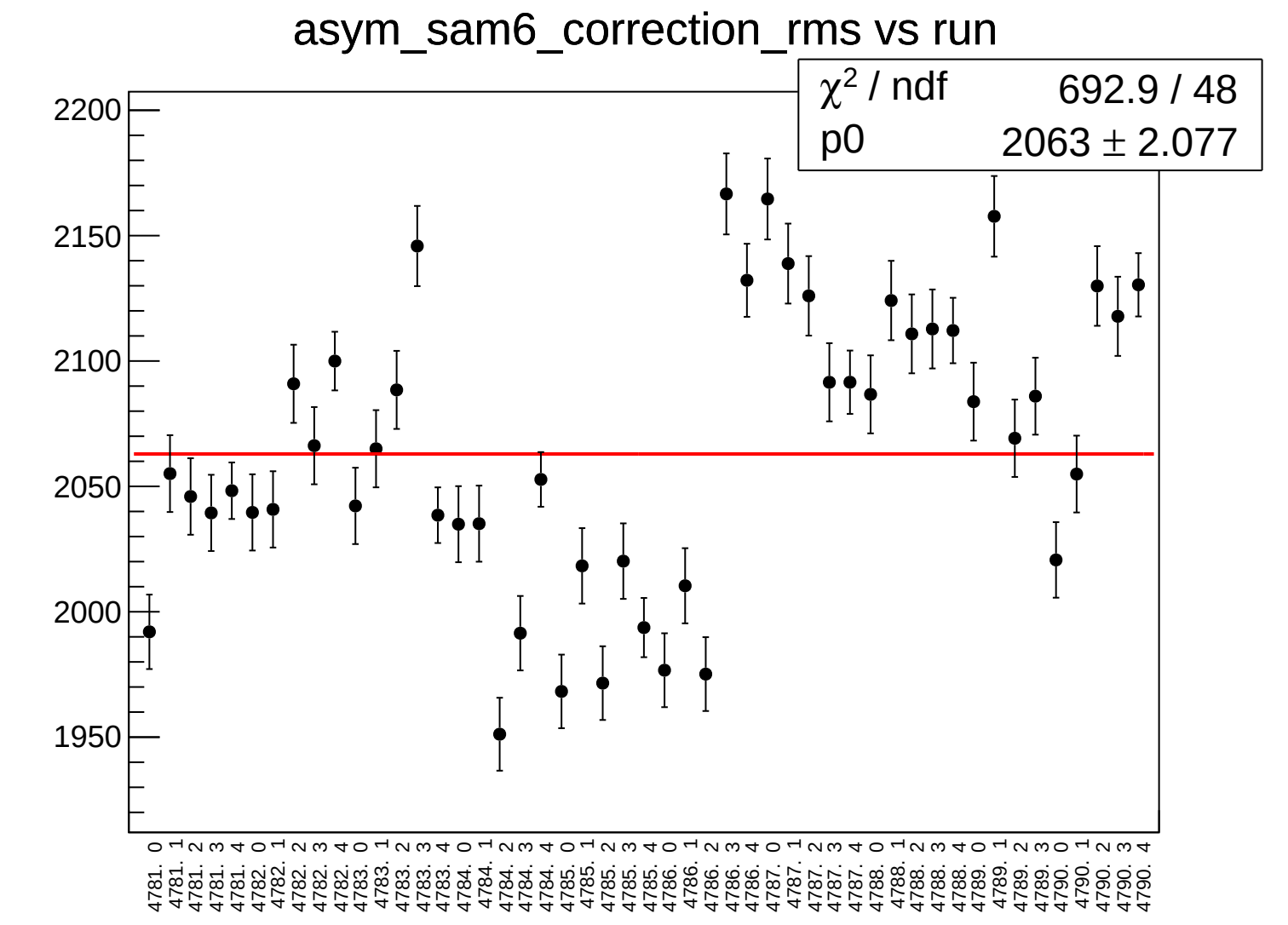

reg_asym_sam6_mean vs run
χ² / ndf 48.44 / 48
p0 691.9 ± 555.2
15000
10000
5000
0
−5000
−10000
−15000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 231.3
Std Dev 201.1
2
1
0
−1
−2
−3

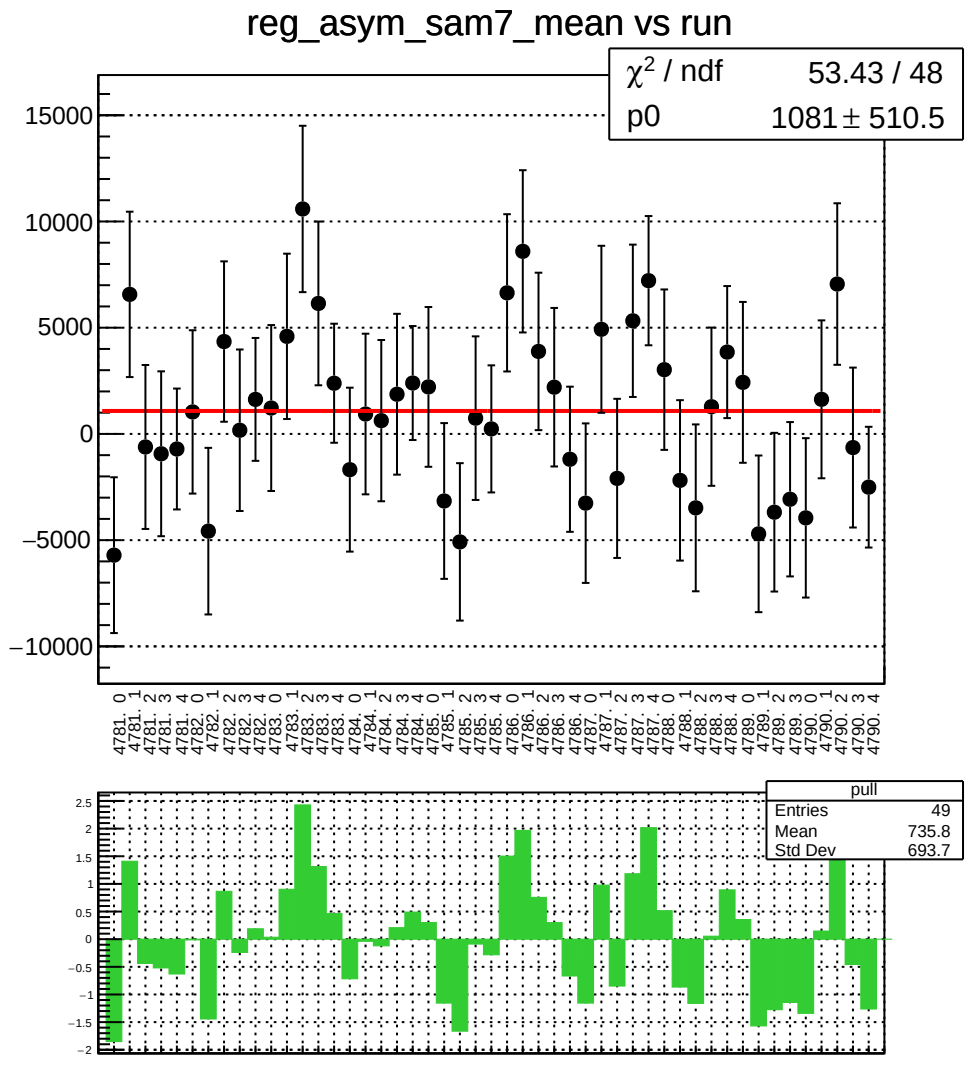

pull1D
Entries 49
Mean −0.01531
Std Dev 0.9942
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

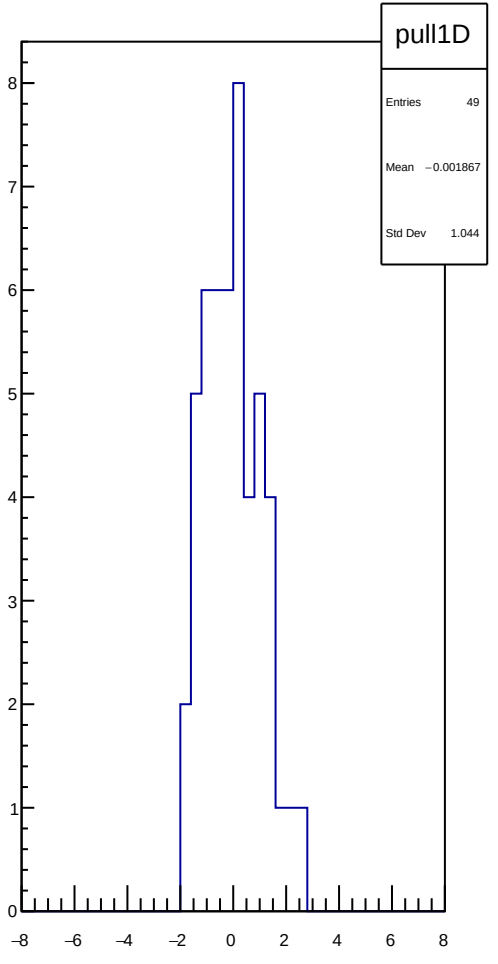

reg_asym_sam6_rms vs run
χ² / ndf 827.8 / 48
p0 389.9 ± 0.3926
430
420
410
400
390
380
370
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

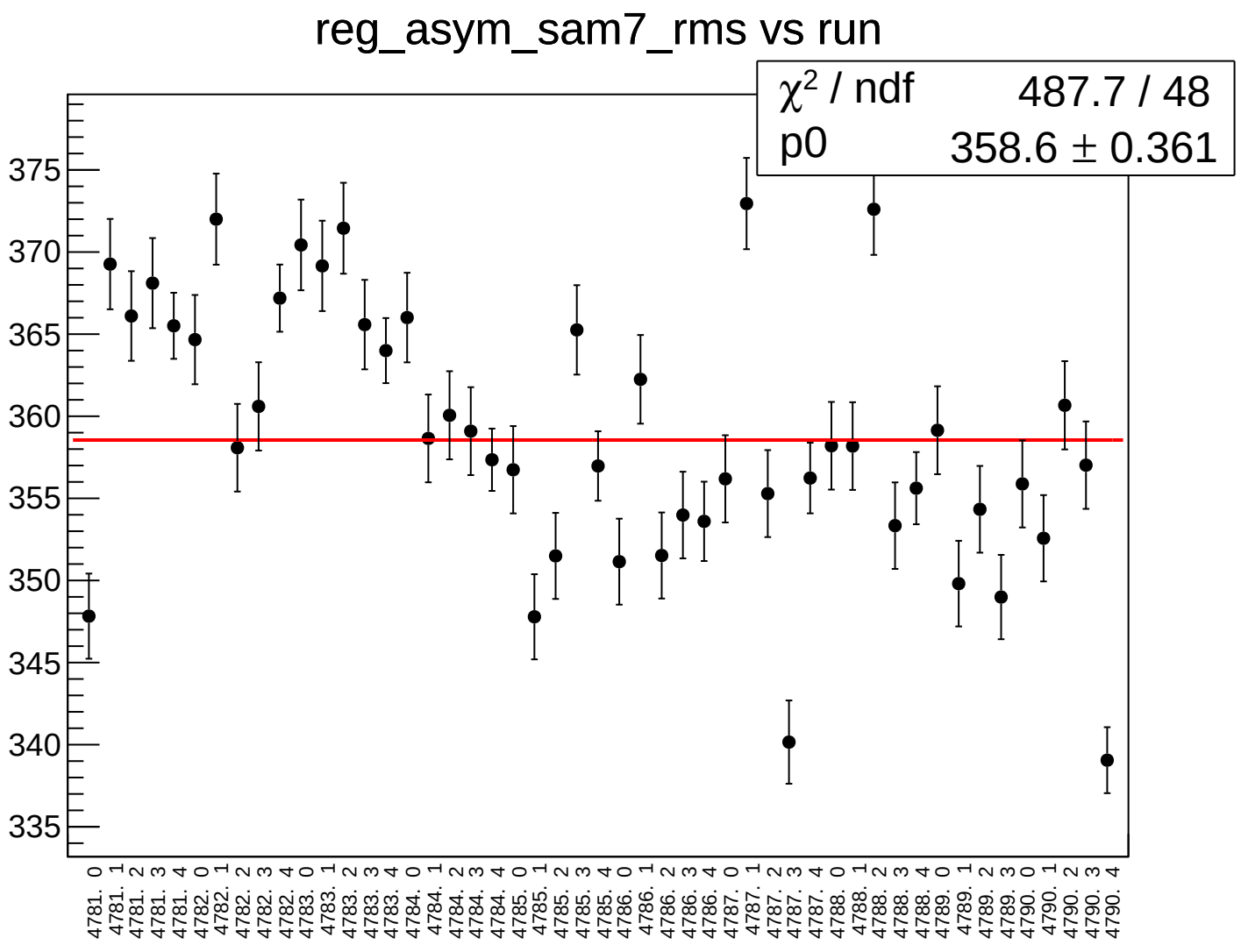

asym_sam6_correction_mean vs run
χ² / ndf 31.89 / 48
p0 1.262e+04 ± 2938
80000
60000
40000
20000
0
−20000
−40000
−60000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 734.8
Std Dev 709.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

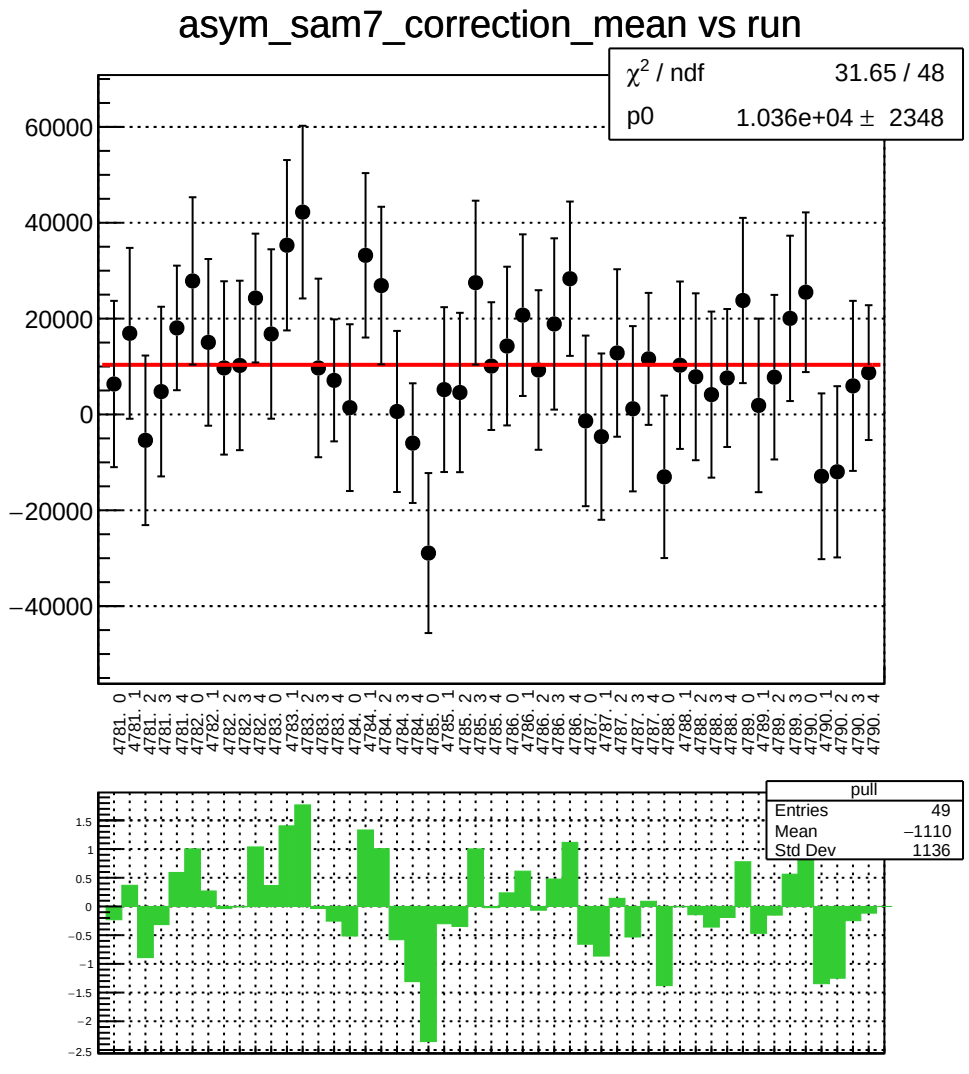

pull1D
Entries 49
Mean −0.003689
Std Dev 0.8068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

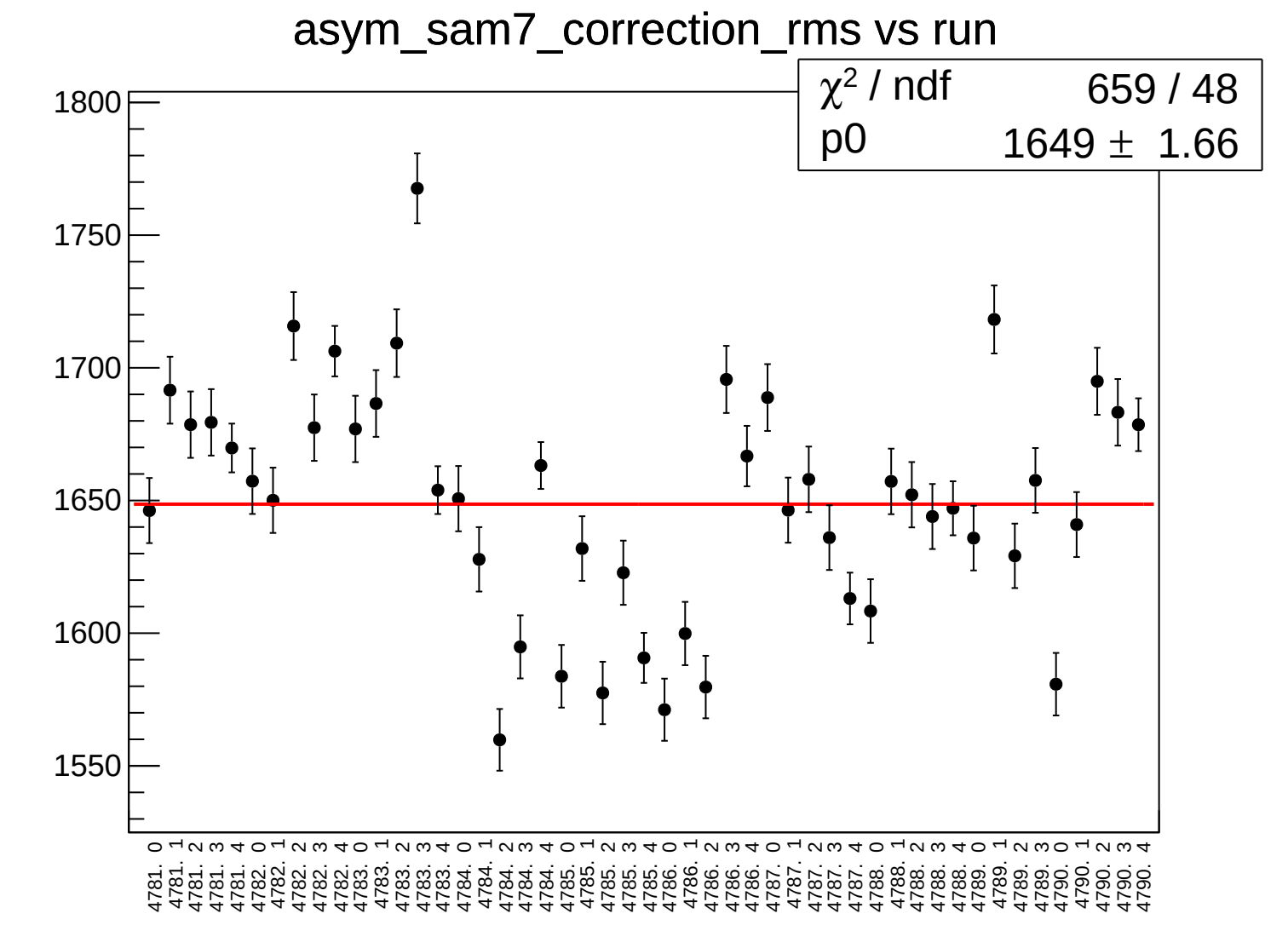

asym_sam6_correction_rms vs run
χ² / ndf 692.9 / 48
p0 2063 ± 2.077
2200
2150
2100
2050
2000
1950
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

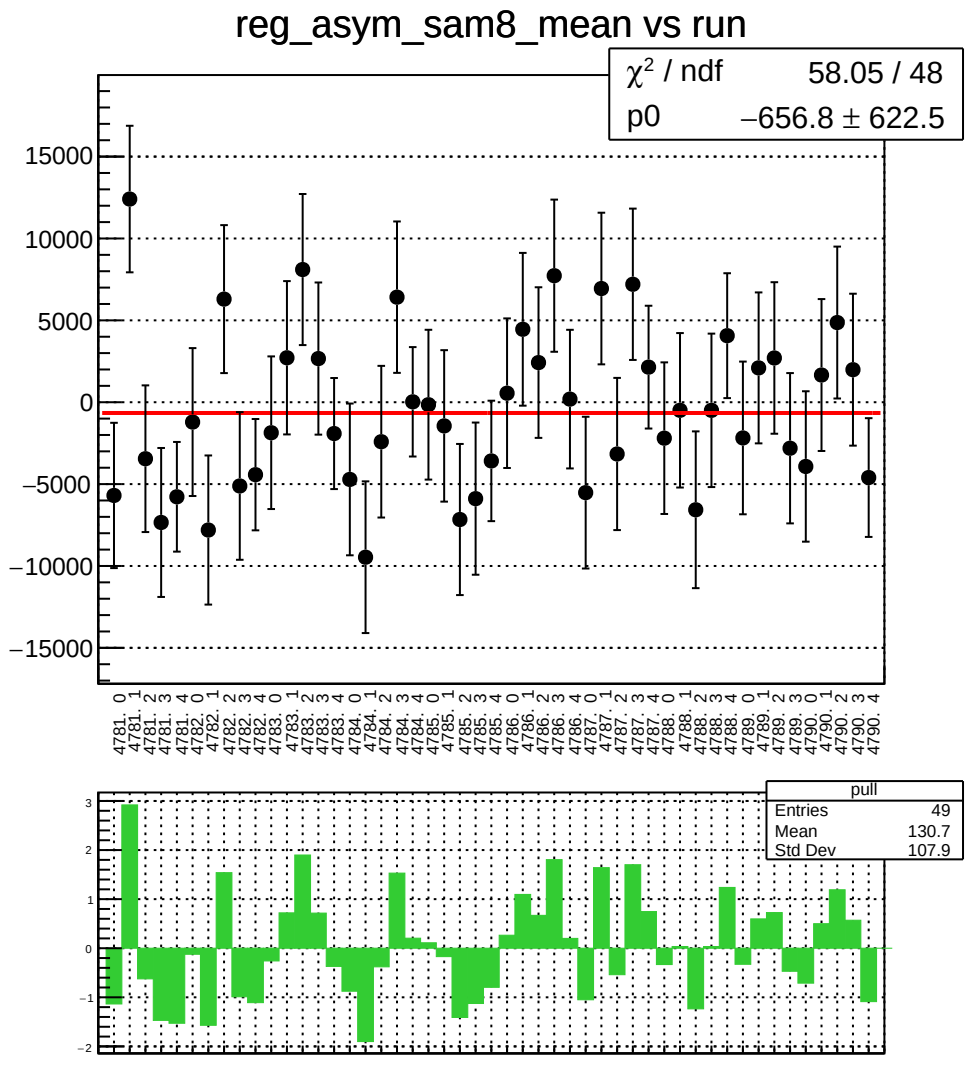

reg_asym_sam7_mean vs run
χ² / ndf 53.43 / 48
p0 1081 ± 510.5
15000
10000
5000
0
−5000
−10000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 735.8
Std Dev 693.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

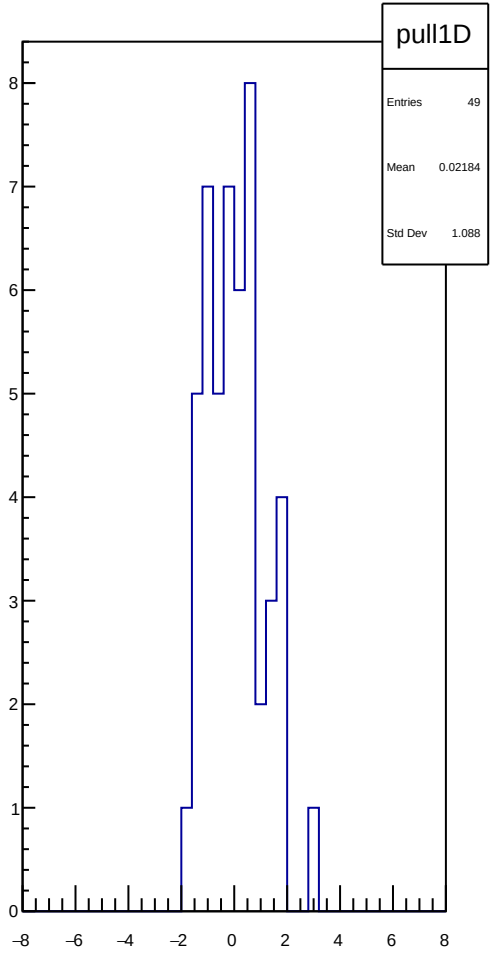

pull1D
Entries 49
Mean −0.001867
Std Dev 1.044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

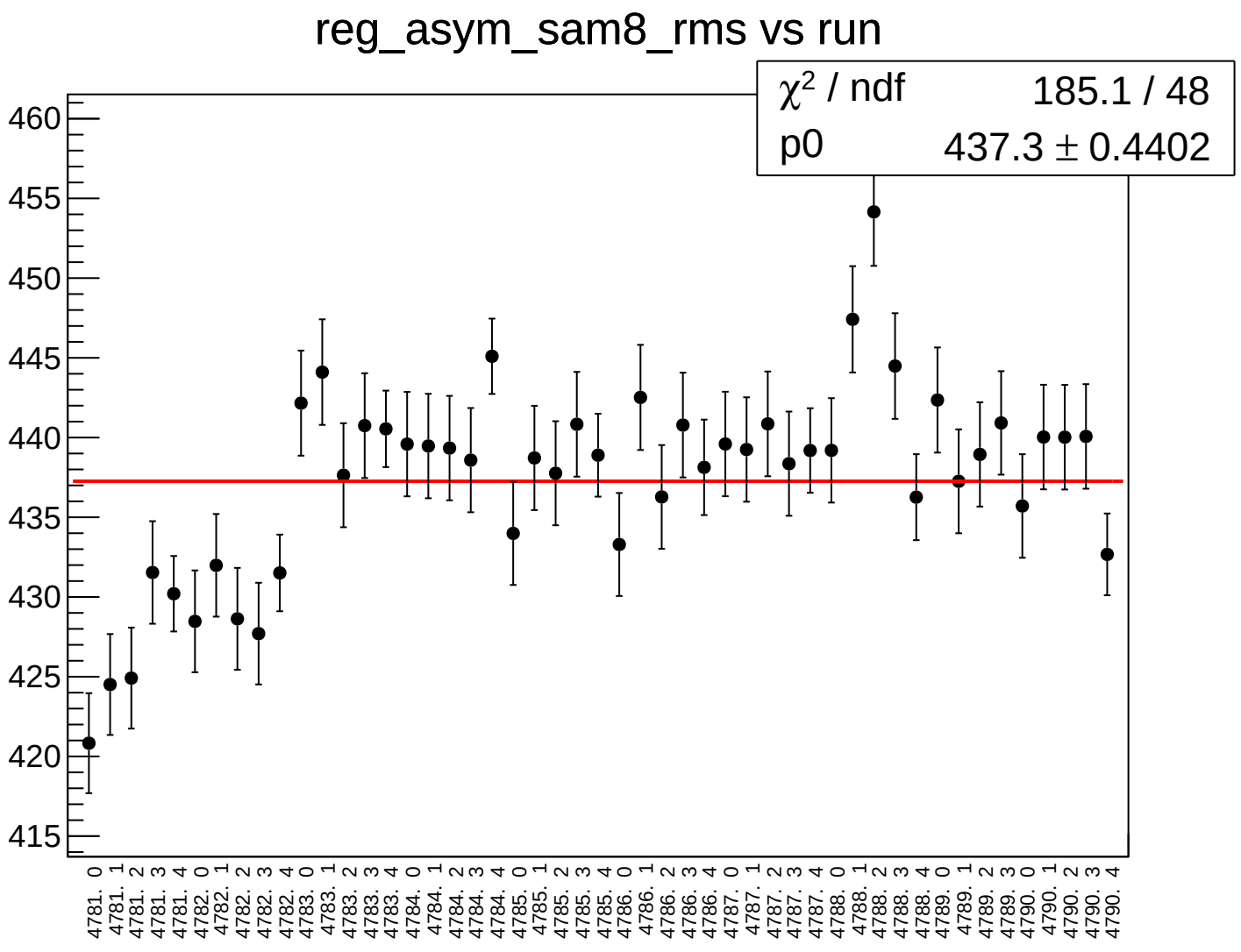

reg_asym_sam7_rms vs run
χ² / ndf 487.7 / 48
p0 358.6 ± 0.361
375
370
365
360
355
350
345
340
335
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

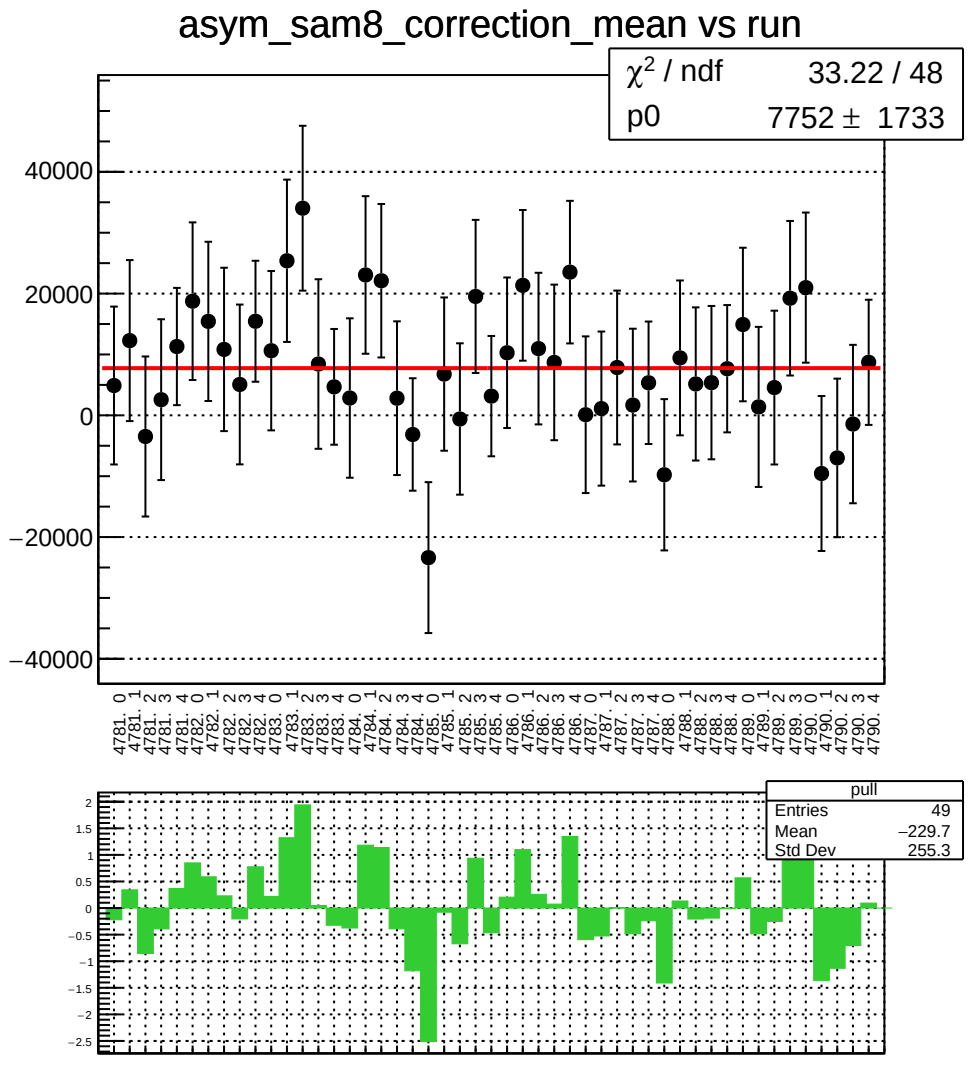

asym_sam7_correction_mean vs run
χ² / ndf 31.65 / 48
p0 1.036e+04 ± 2348
60000
40000
20000
0
−20000
−40000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −1110
Std Dev 1136
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 49
Mean 0.002238
Std Dev 0.8037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

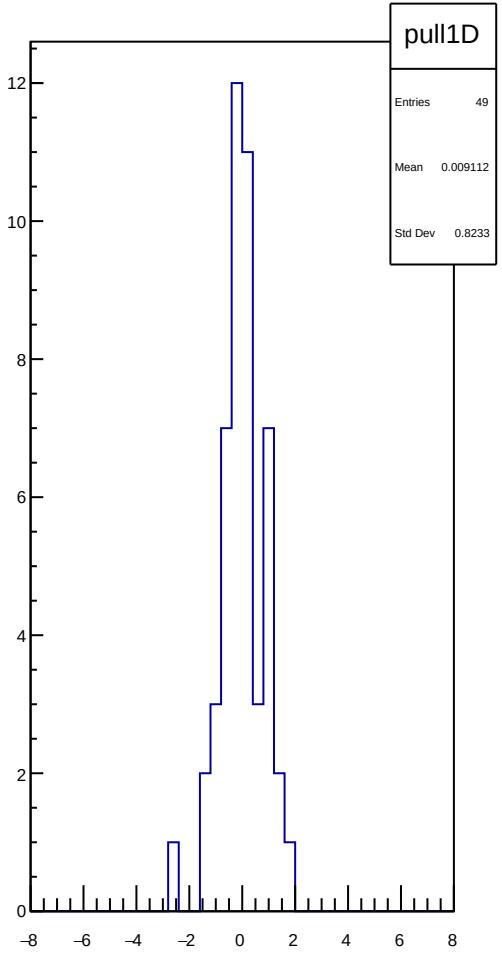

asym_sam7_correction_rms vs run
χ² / ndf 659 / 48
p0 1649 ± 1.66
1800
1750
1700
1650
1600
1550
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

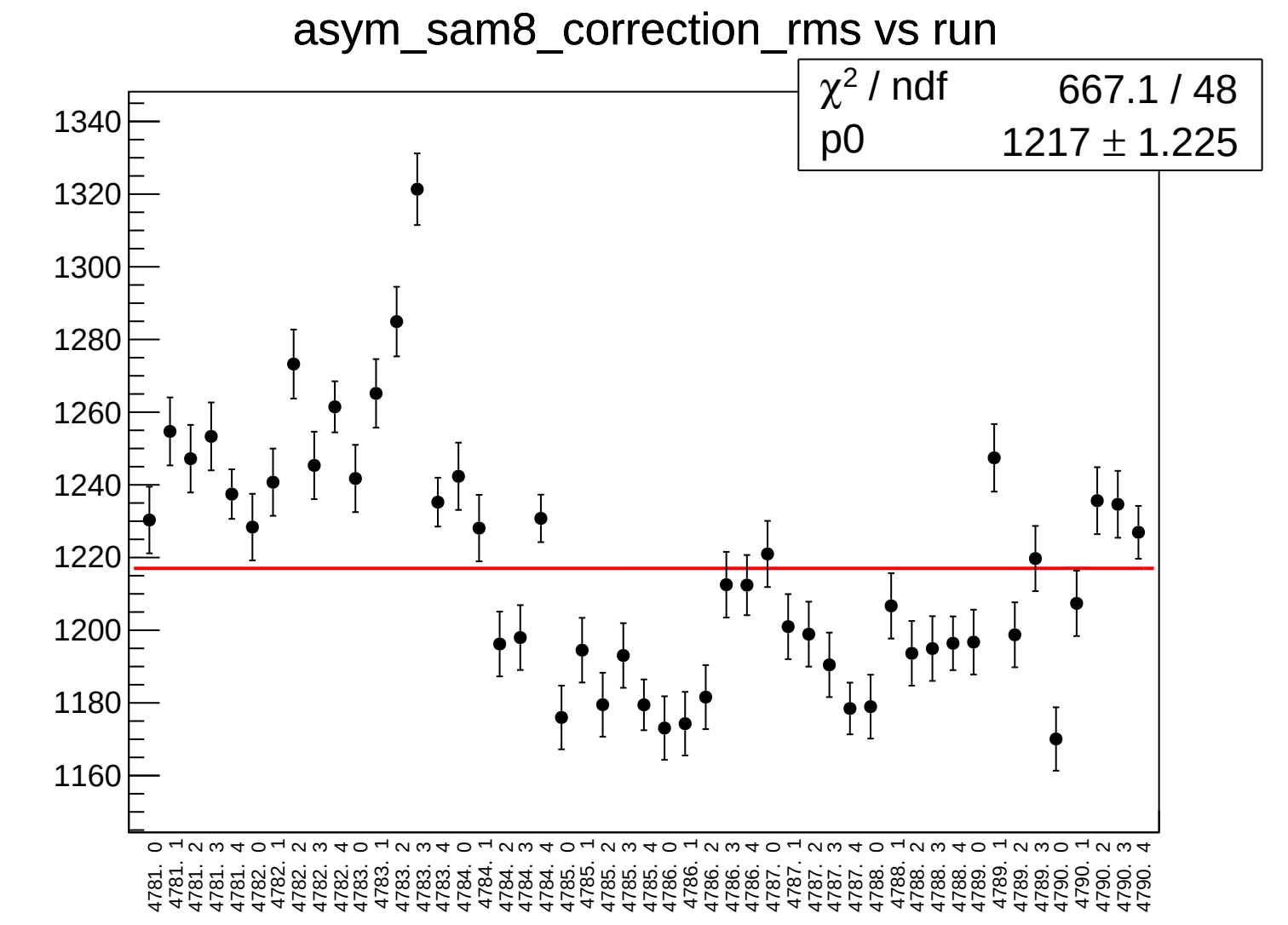

reg_asym_sam8_mean vs run
χ² / ndf 58.05 / 48
p0 −656.8 ± 622.5
15000
10000
5000
0
−5000
−10000
−15000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 130.7
Std Dev 107.9
3
2
1
0
−1
−2

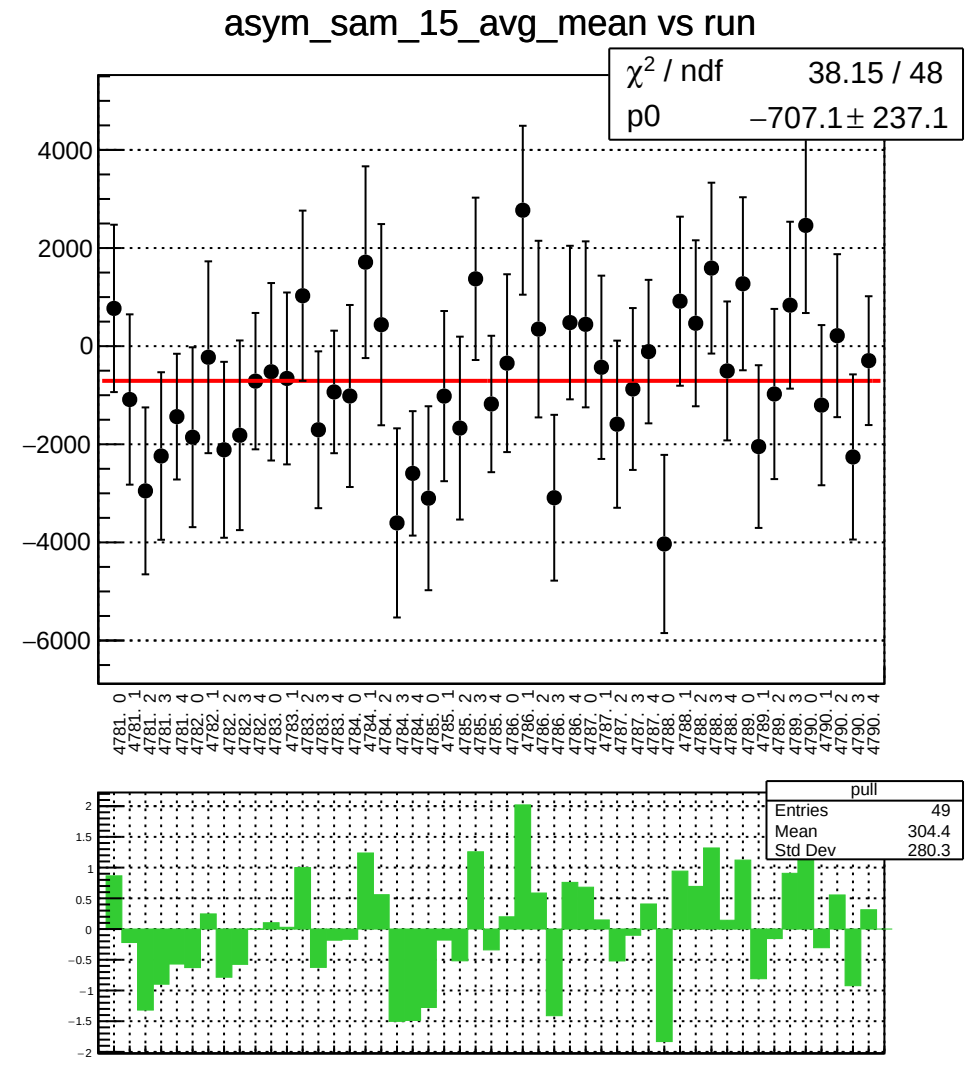

pull1D
Entries 49
Mean 0.02184
Std Dev 1.088
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

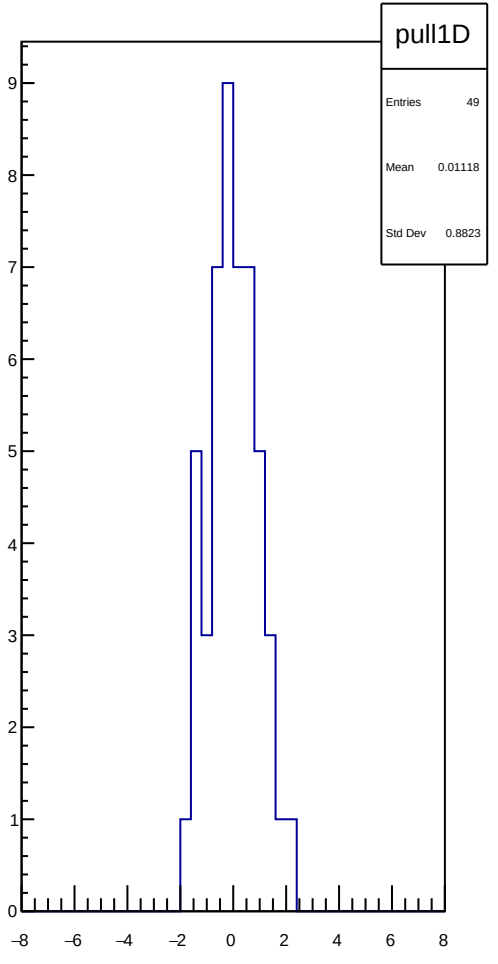

reg_asym_sam8_rms vs run
χ² / ndf 185.1 / 48
p0 437.3 ± 0.4402
460
455
450
445
440
435
430
425
420
415
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

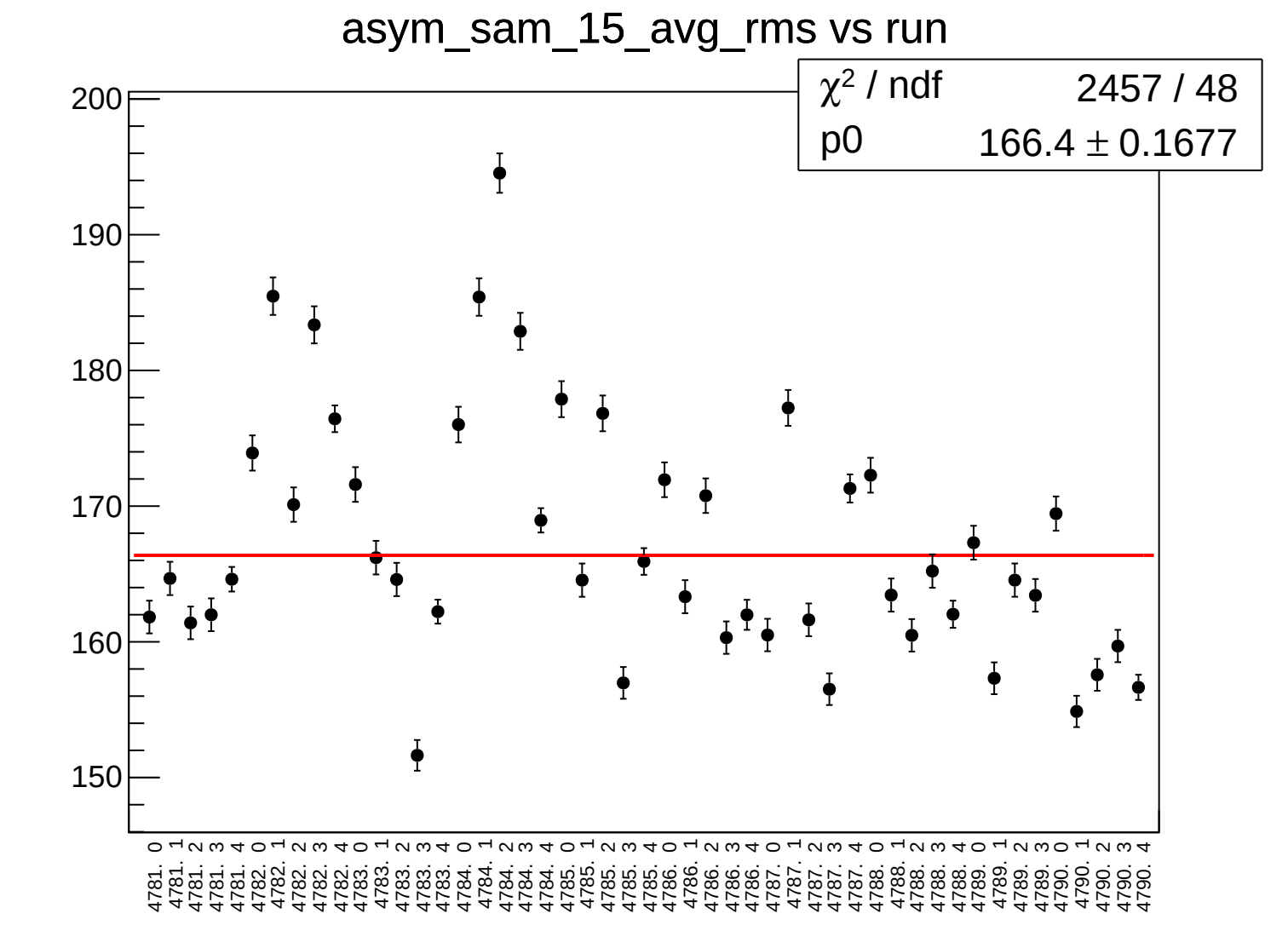

asym_sam8_correction_mean vs run
χ² / ndf 33.22 / 48
p0 7752 ± 1733
40000
20000
0
−20000
−40000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −229.7
Std Dev 255.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

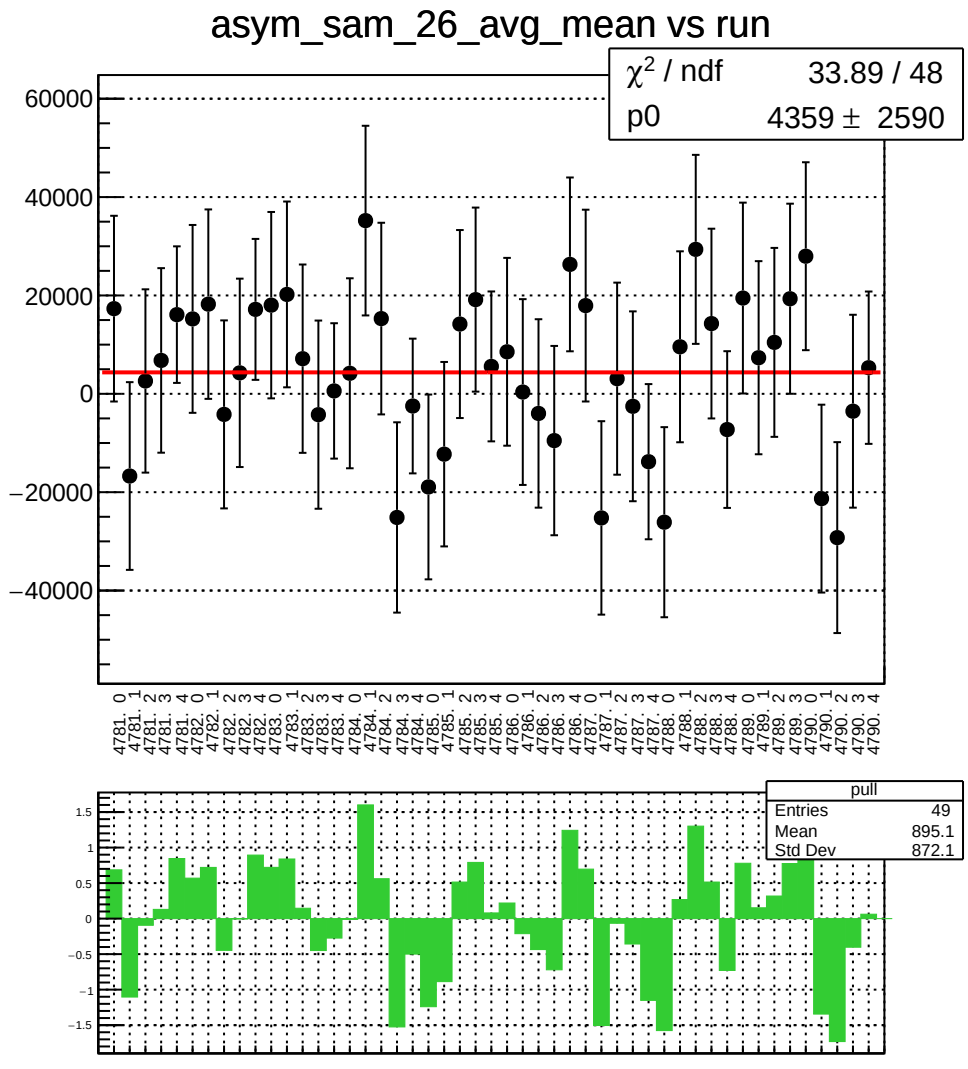

pull1D
Entries 49
Mean 0.009112
Std Dev 0.8233
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

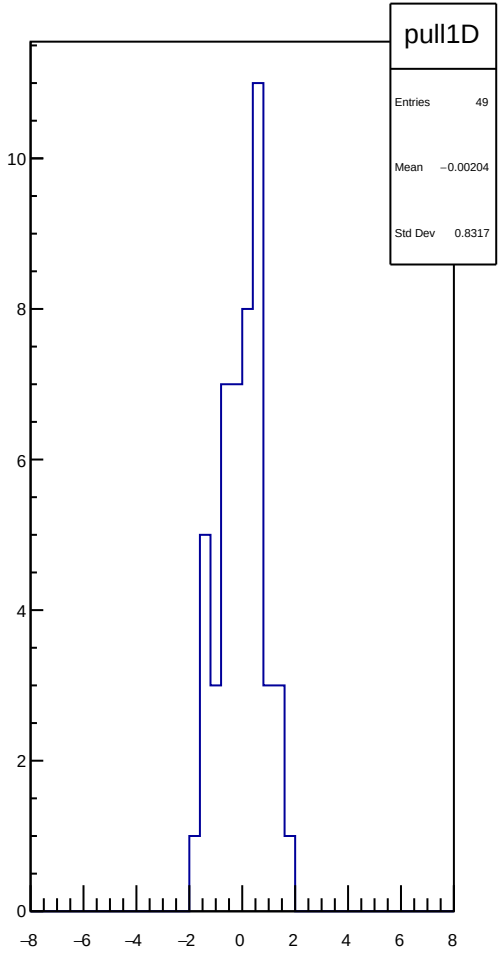

asym_sam8_correction_rms vs run
χ² / ndf 667.1 / 48
p0 1217 ± 1.225
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

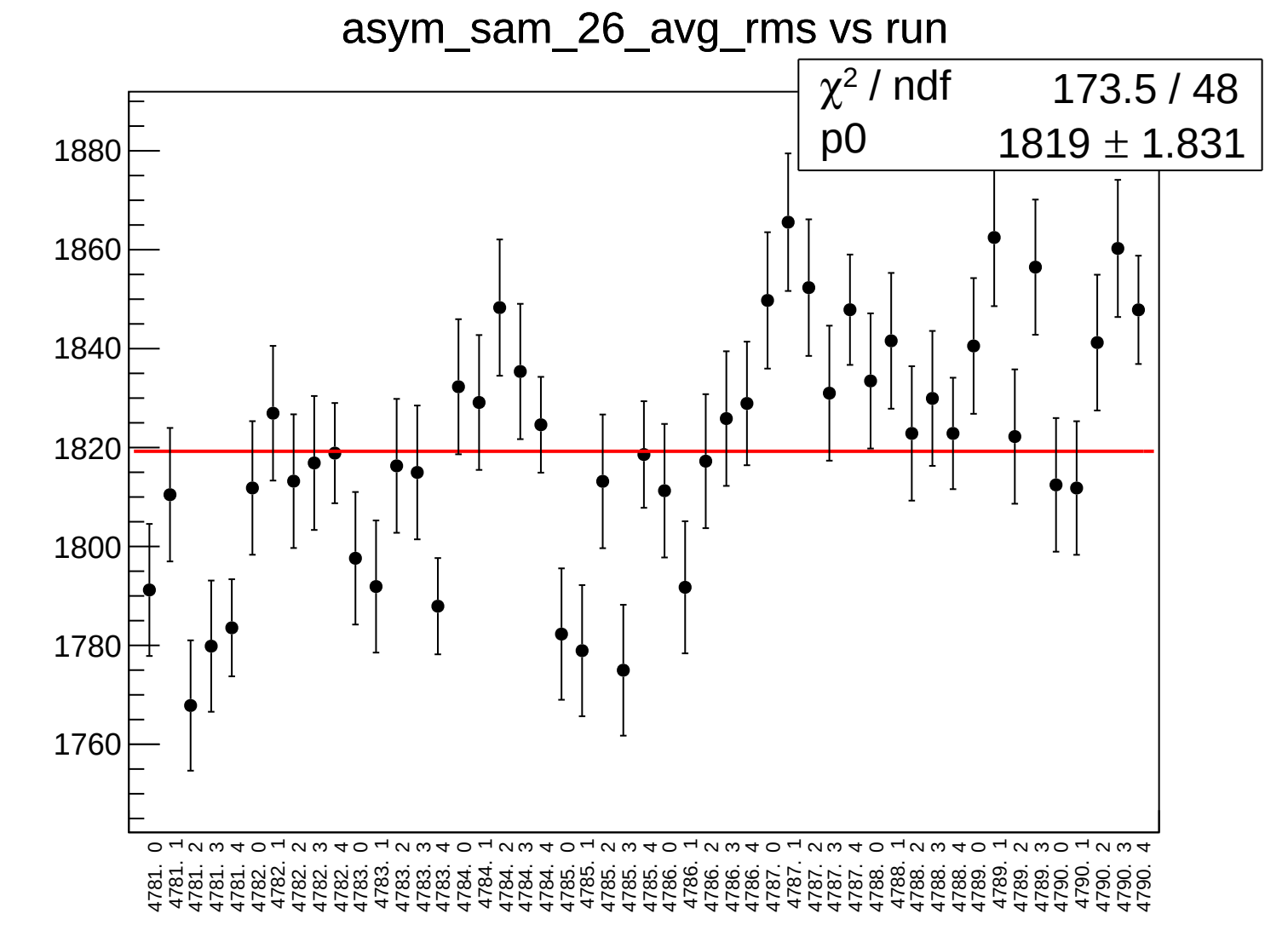

asym_sam_15_avg_mean vs run
χ² / ndf 38.15 / 48
p0 −707.1 ± 237.1
4000
2000
0
−2000
−4000
−6000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 304.4
Std Dev 280.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

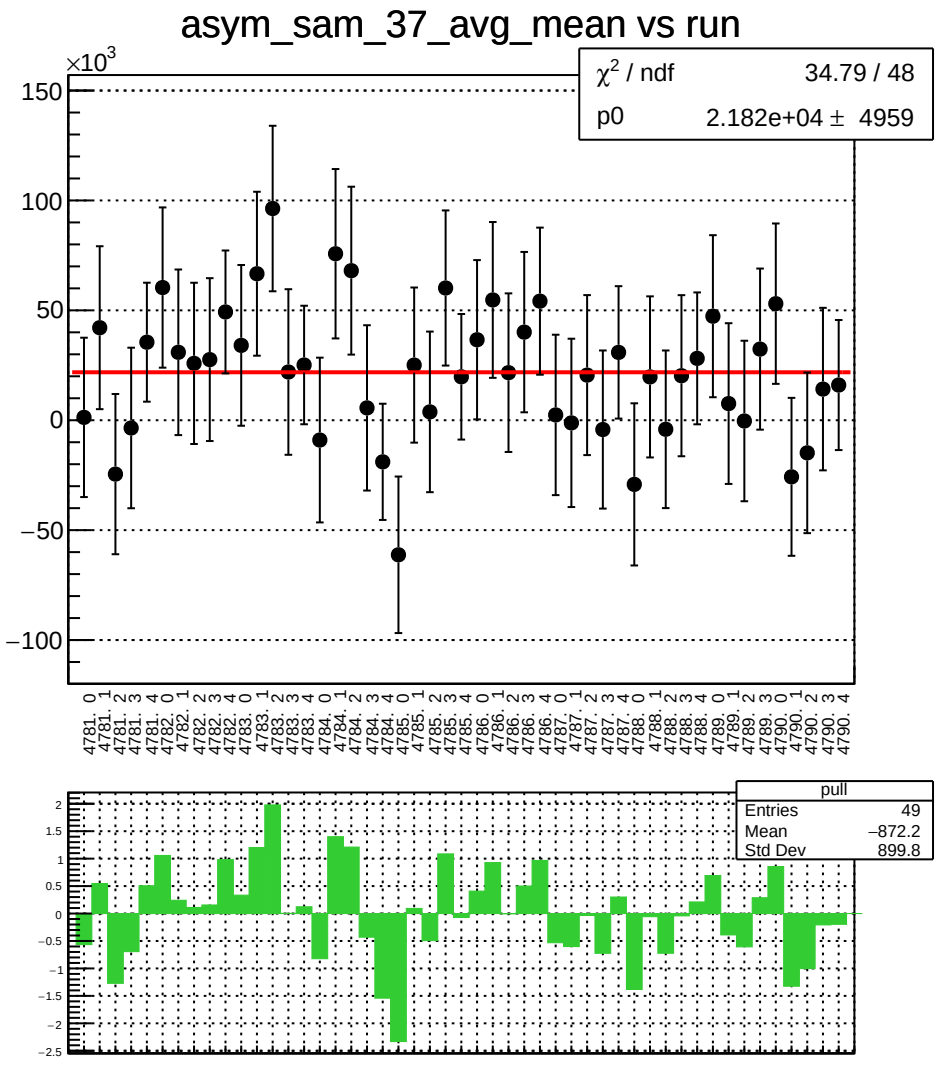

pull1D
Entries 49
Mean 0.01118
Std Dev 0.8823
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

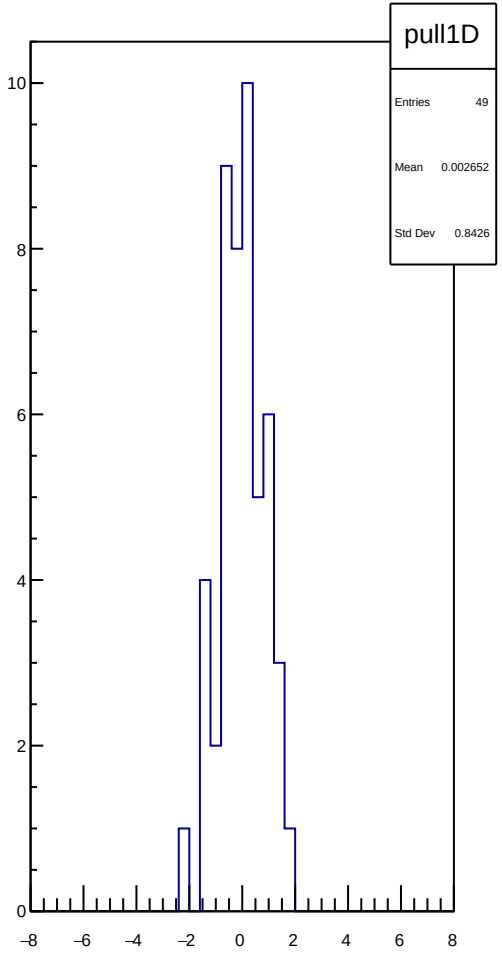

asym_sam_15_avg_rms vs run
χ^2 / ndf 2457 / 48
p0 166.4 ± 0.1677
200
190
180
170
160
150
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

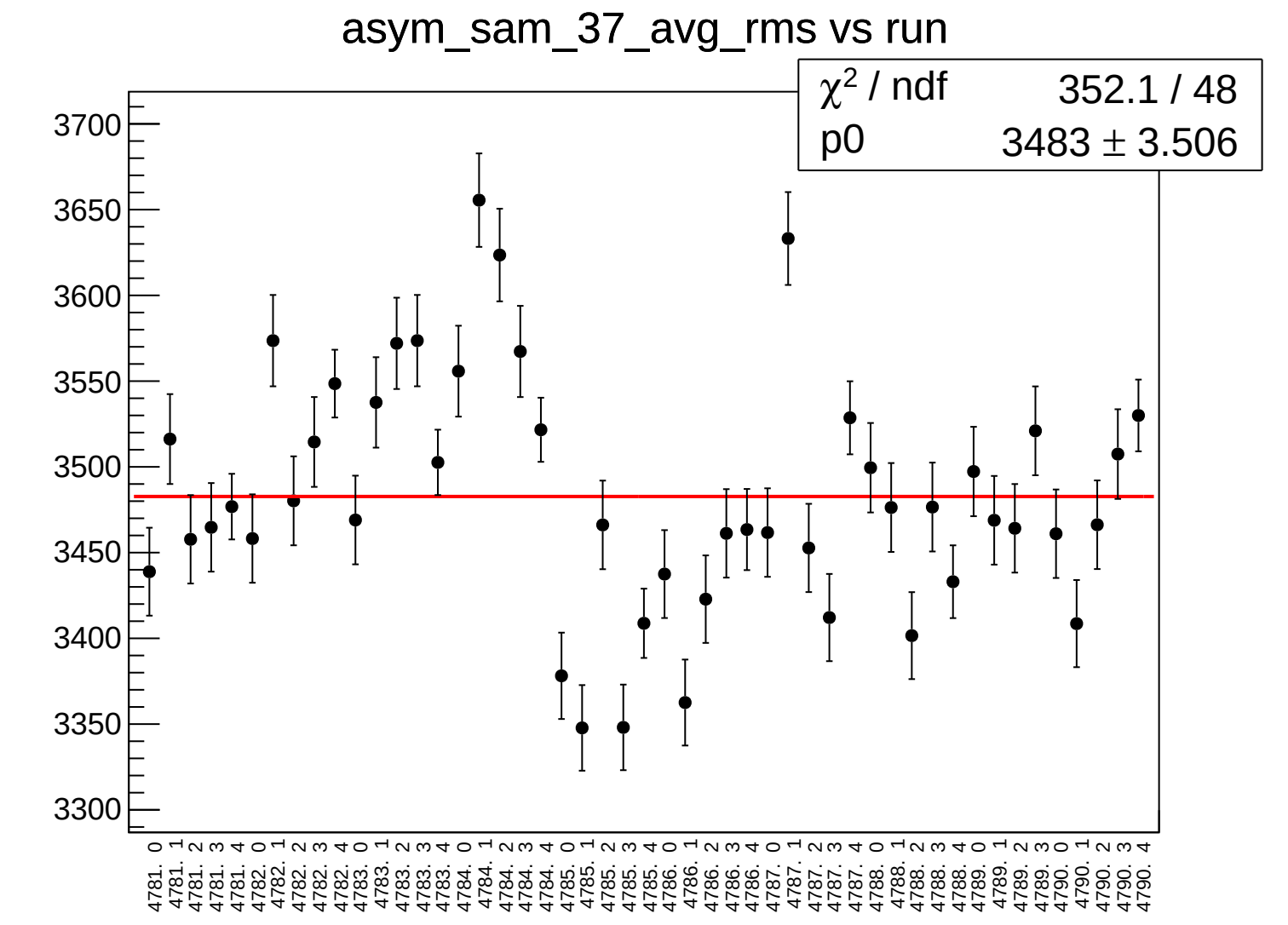

asym_sam_26_avg_mean vs run
χ² / ndf 33.89 / 48
p0 4359 ± 2590
60000
40000
20000
0
−20000
−40000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 895.1
Std Dev 872.1
1.5
1
0.5
0
−0.5
−1
−1.5

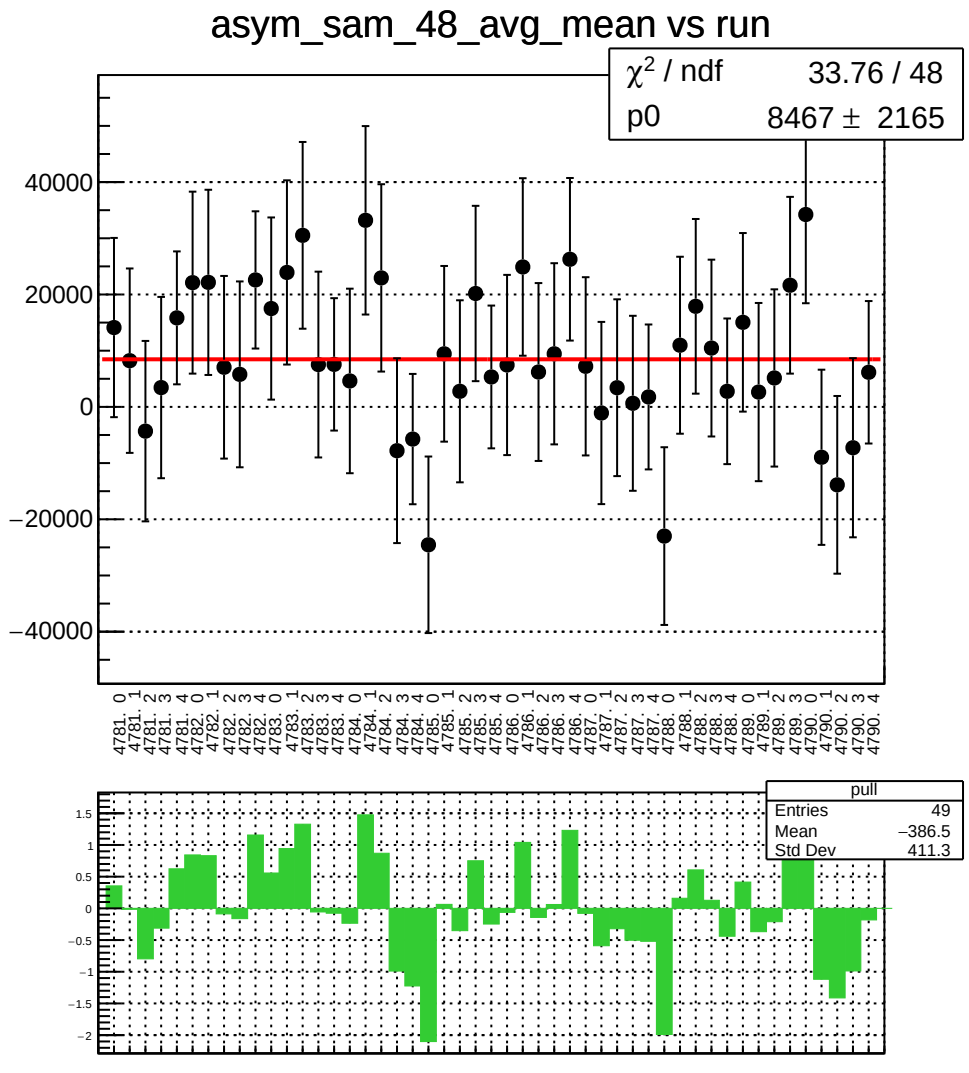

pull1D
Entries 49
Mean −0.00204
Std Dev 0.8317
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

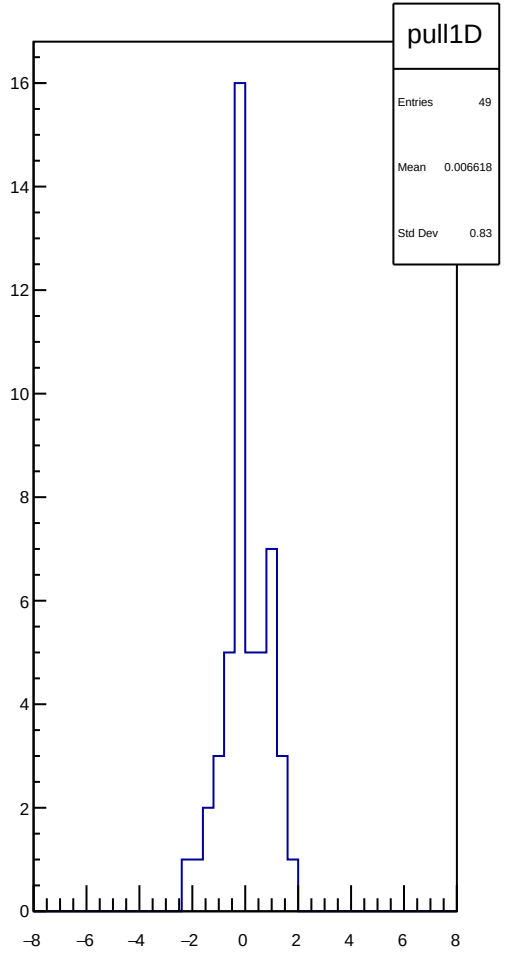

asym_sam_26_avg_rms vs run
χ² / ndf 173.5 / 48
p0 1819 ± 1.831
1880
1860
1840
1820
1800
1780
1760
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

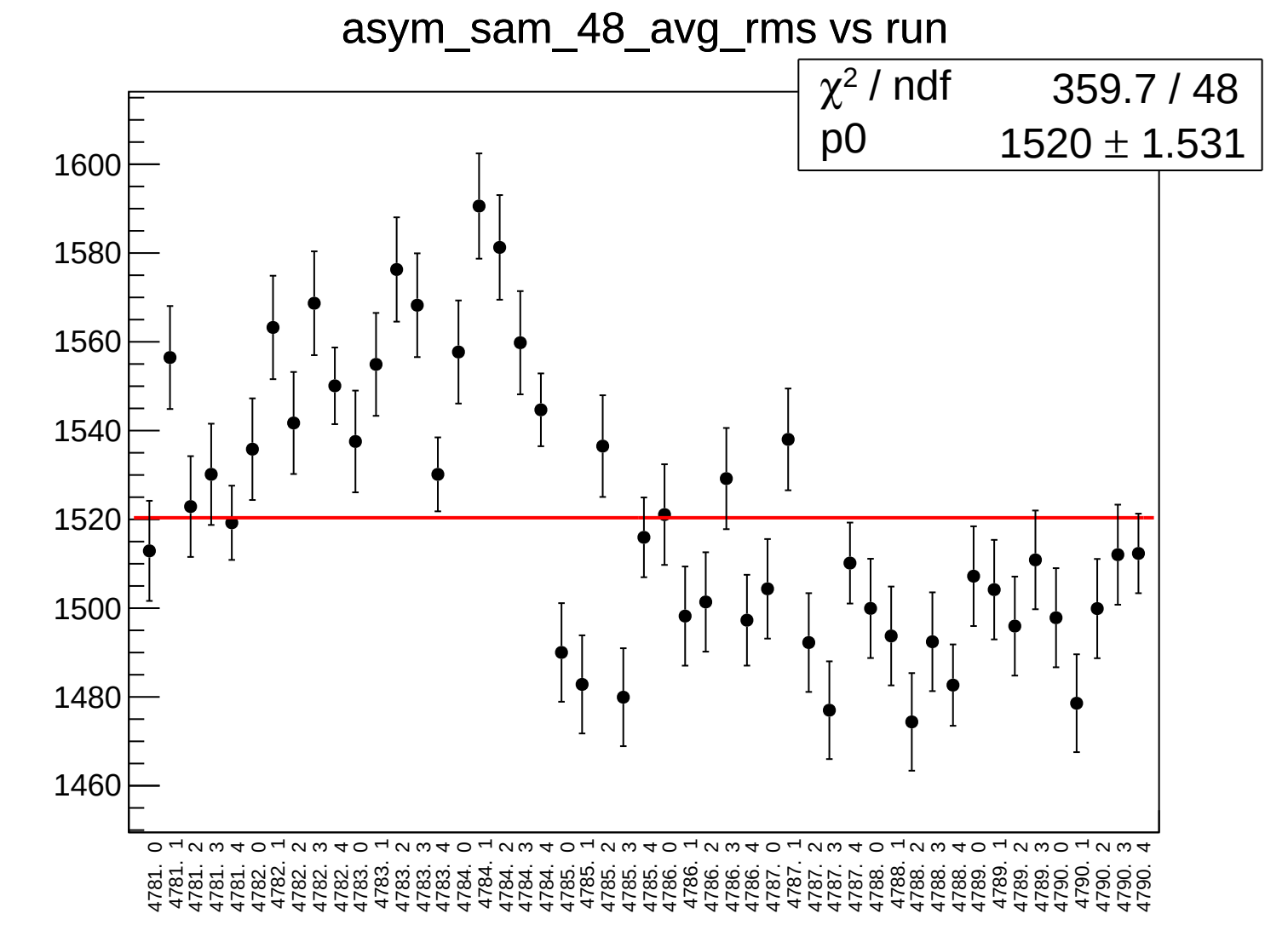

asym_sam_37_avg_mean vs run
×10^3
χ² / ndf 34.79 / 48
p0 2.182e+04 ± 4959
150
100
50
0
−50
−100
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −872.2
Std Dev 899.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

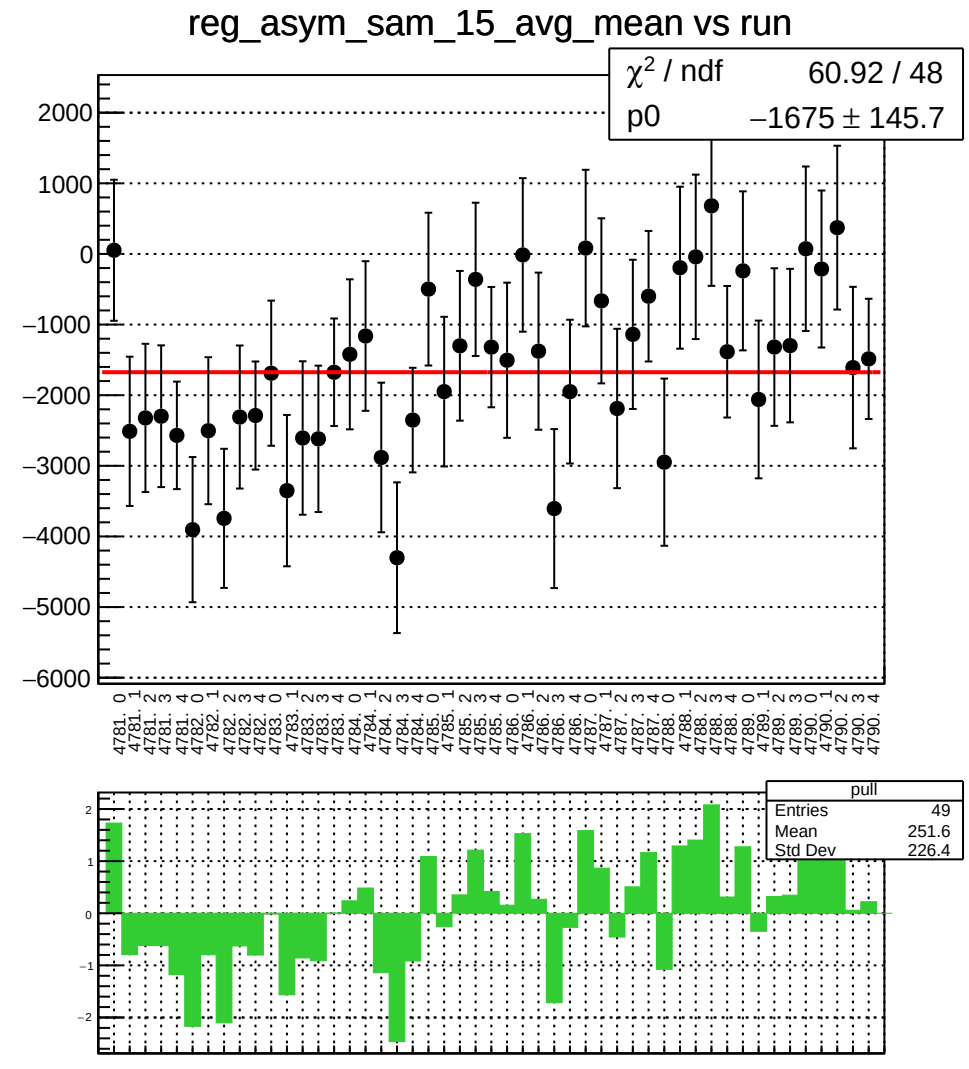

pull1D
Entries 49
Mean 0.002652
Std Dev 0.8426
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

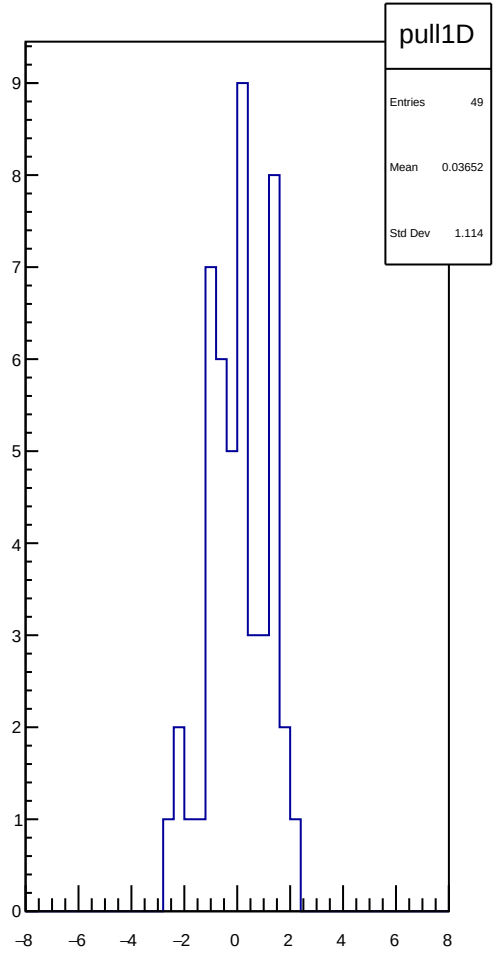

asym_sam_37_avg_rms vs run
χ^2 / ndf 352.1 / 48
p0 3483 ± 3.506
3700
3650
3600
3550
3500
3450
3400
3350
3300
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

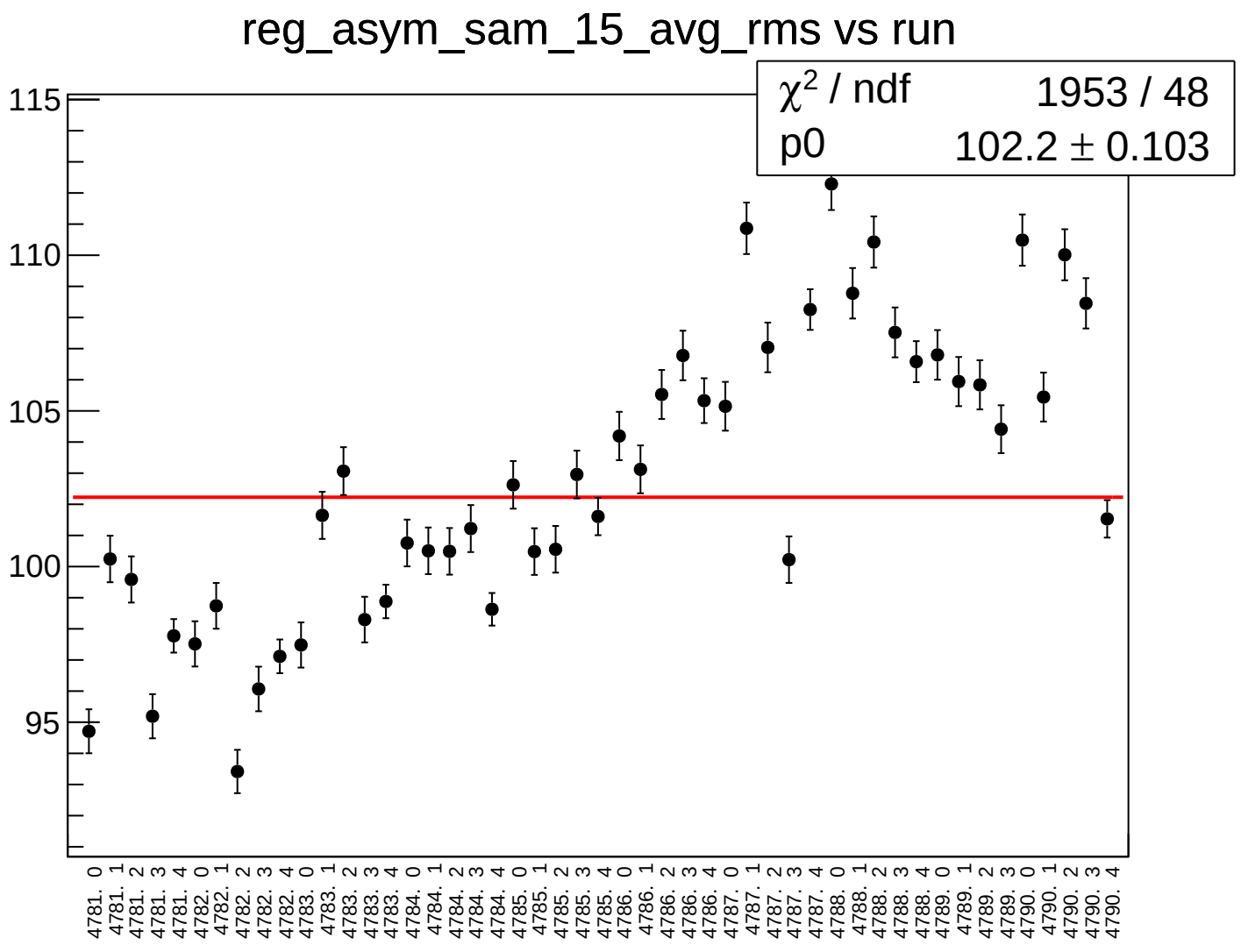

asym_sam_48_avg_mean vs run
χ² / ndf 33.76 / 48
p0 8467 ± 2165
40000
20000
0
−20000
−40000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −386.5
Std Dev 411.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

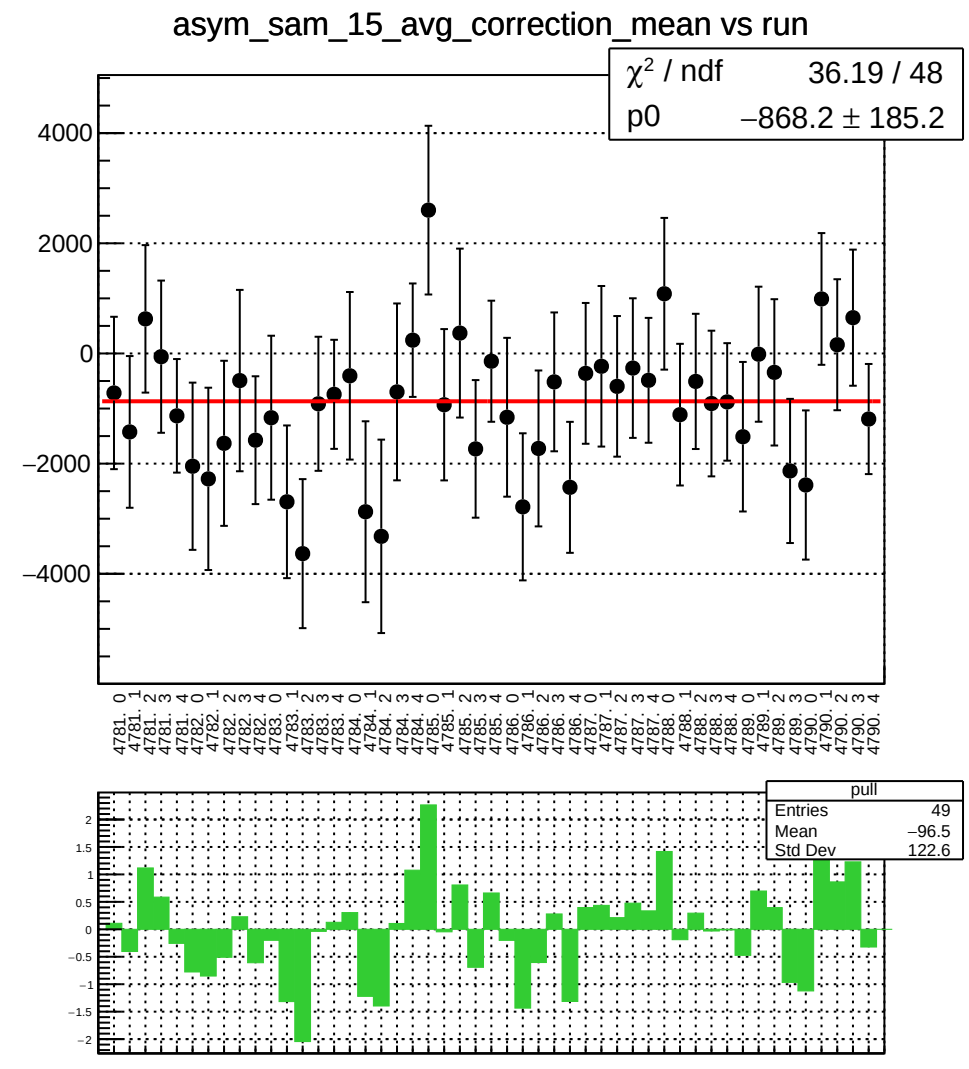

pull1D
Entries 49
Mean 0.006618
Std Dev 0.83
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

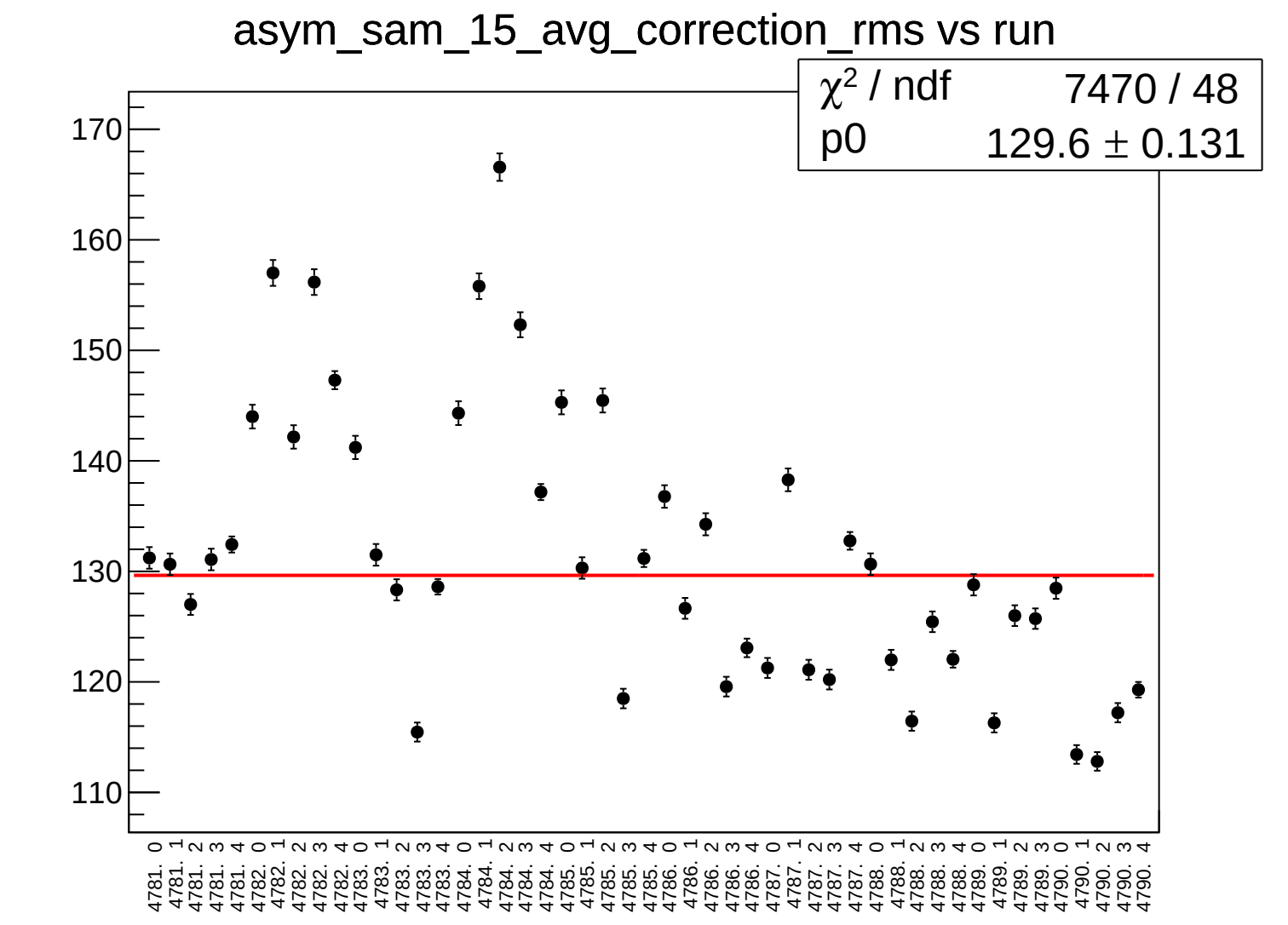

asym_sam_48_avg_rms vs run
χ² / ndf 359.7 / 48
p0 1520 ± 1.531
1600
1580
1560
1540
1520
1500
1480
1460
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

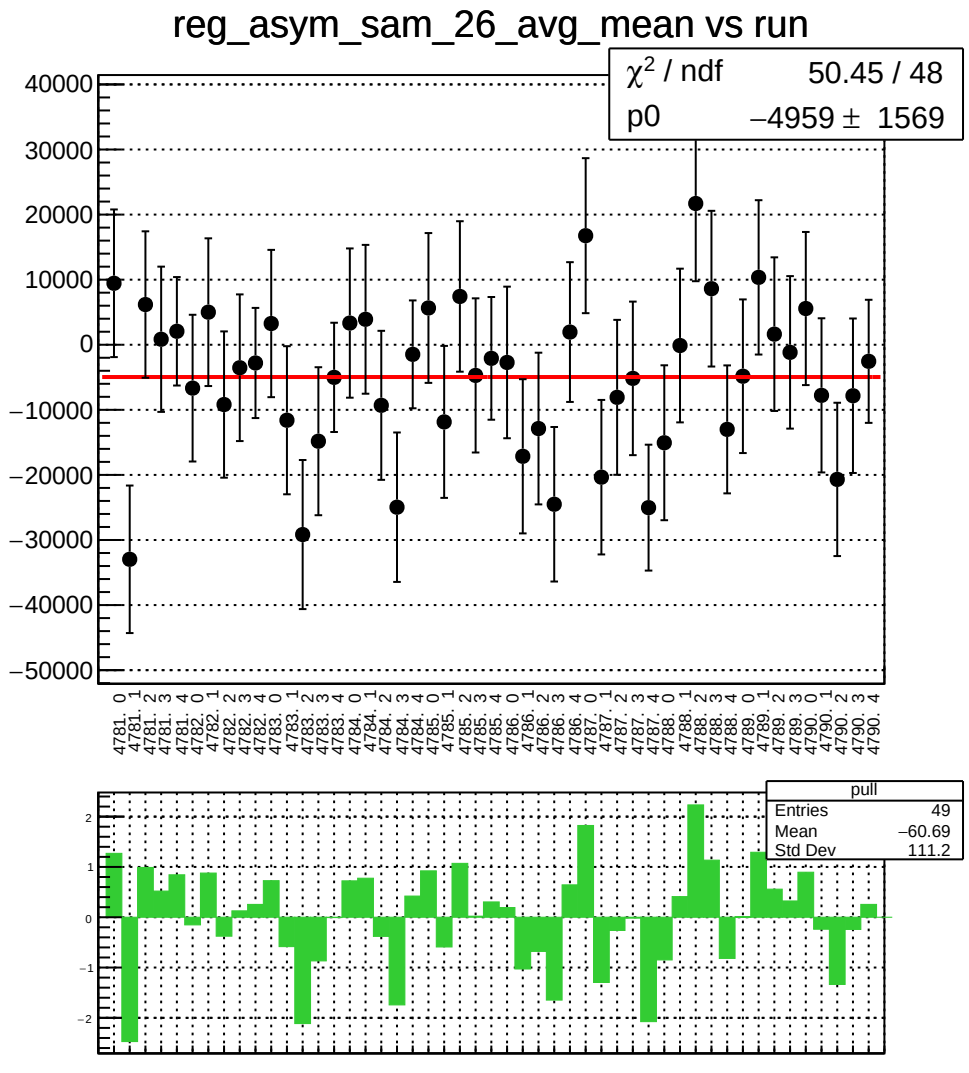

reg_asym_sam_15_avg_mean vs run
χ² / ndf 60.92 / 48
p0 −1675 ± 145.7
pull
Entries 49
Mean 251.6
Std Dev 226.4

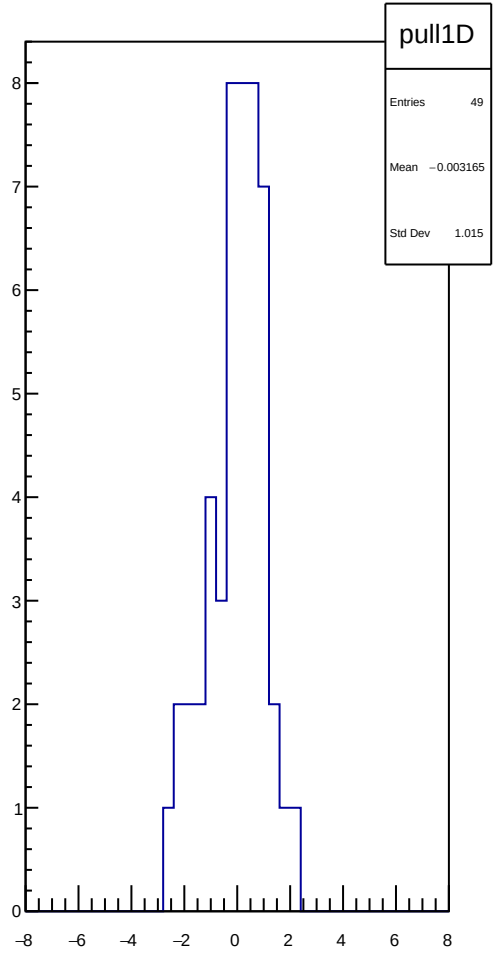

pull1D
Entries 49
Mean 0.03652
Std Dev 1.114

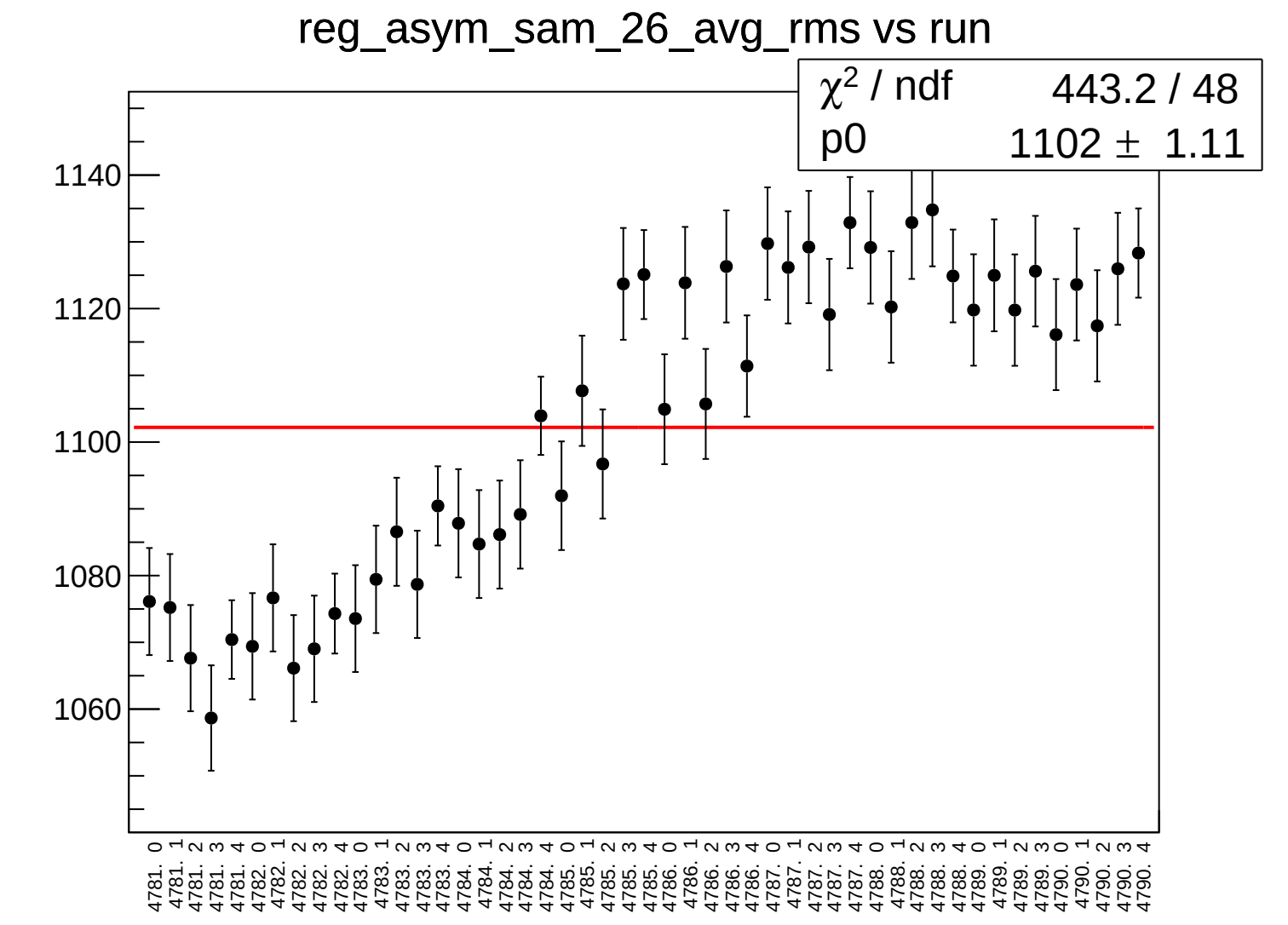

reg_asym_sam_15_avg_rms vs run
χ² / ndf 1953 / 48
p0 102.2 ± 0.103
115
110
105
100
95
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

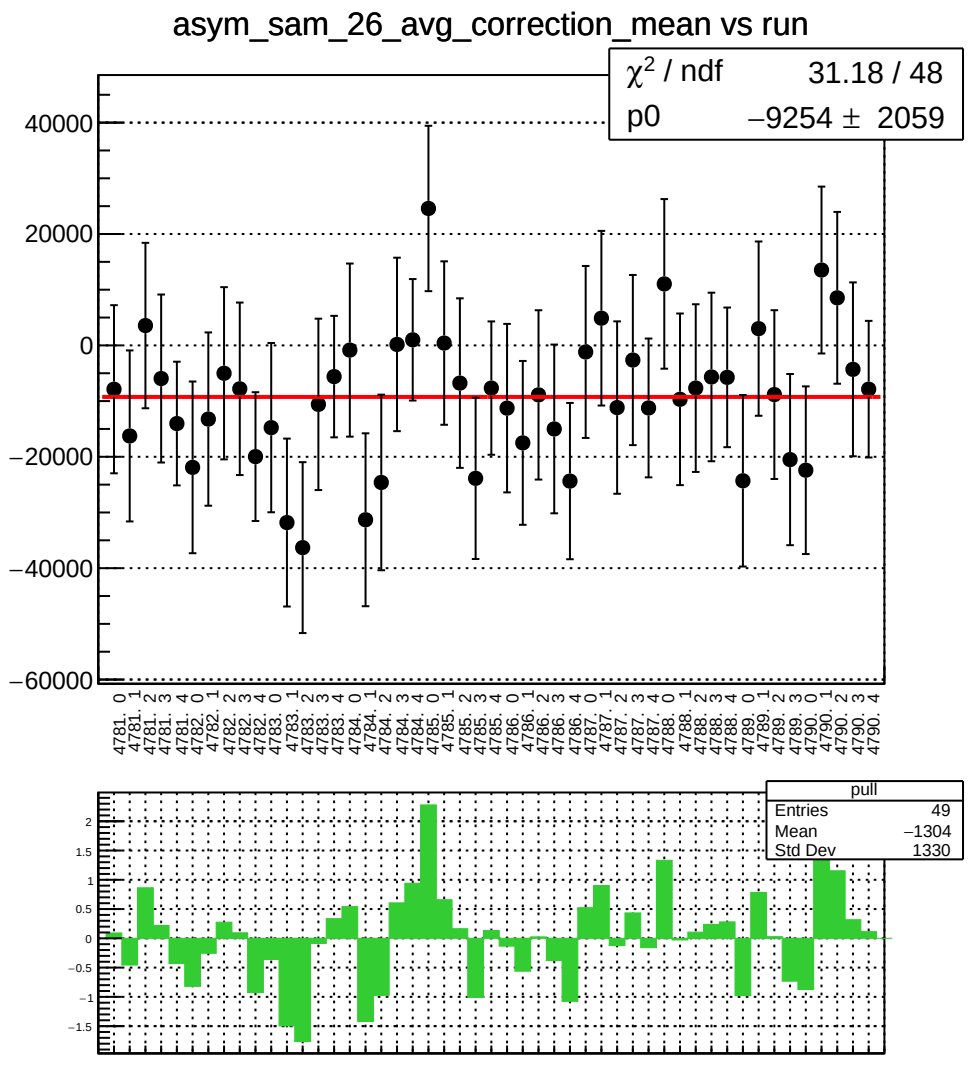

asym_sam_15_avg_correction_mean vs run
χ² / ndf 36.19 / 48
p0 −868.2 ± 185.2
4000
2000
0
−2000
−4000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −96.5
Std Dev 122.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean −0.02148
Std Dev 0.8591
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

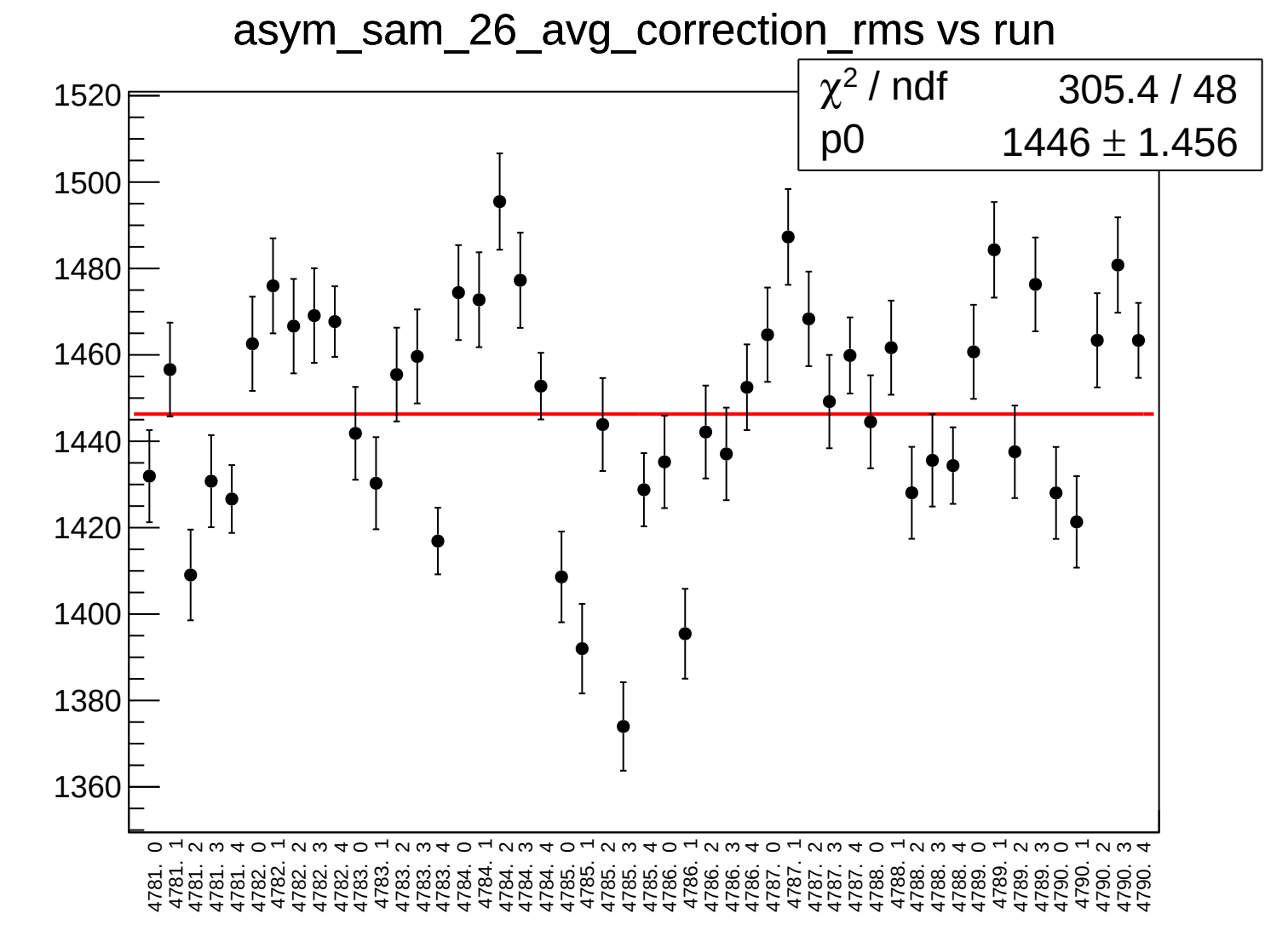

asym_sam_15_avg_correction_rms vs run
χ² / ndf 7470 / 48
p0 129.6 ± 0.131
170
160
150
140
130
120
110
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

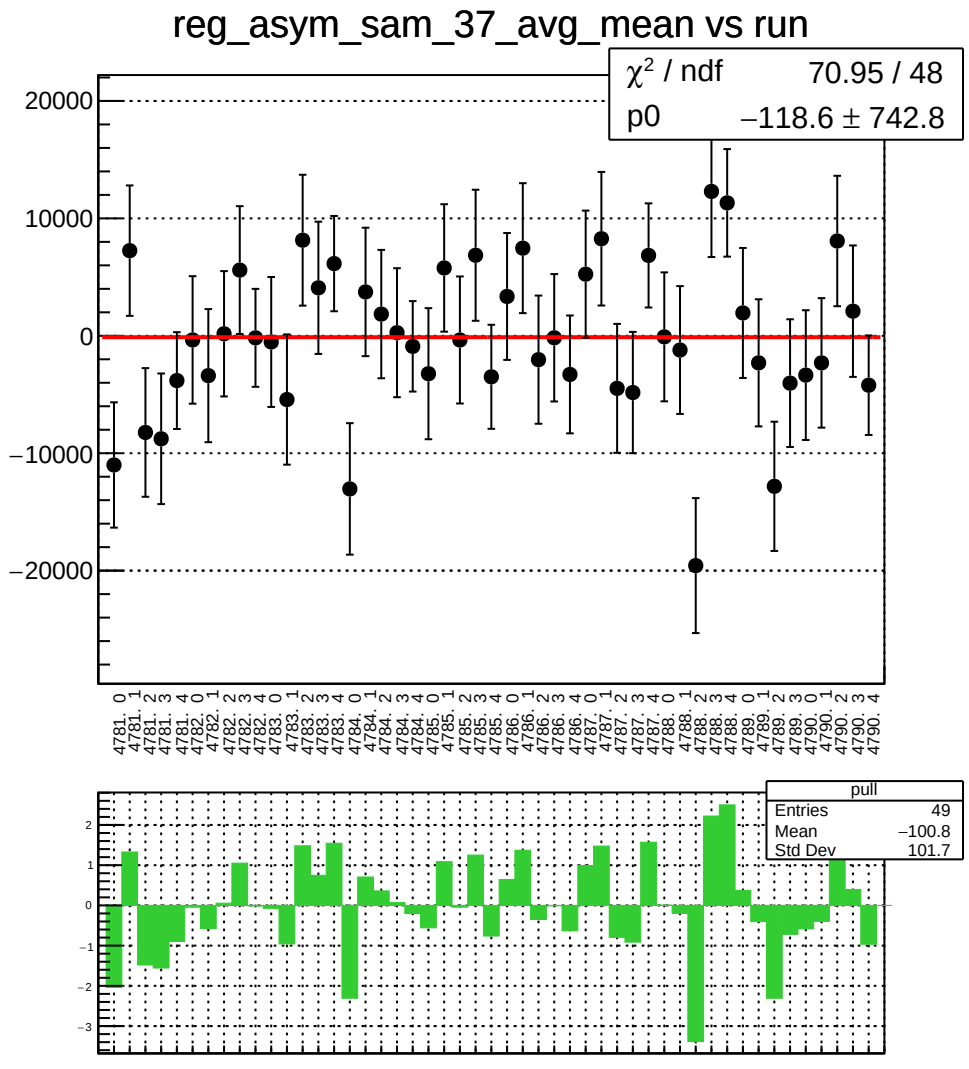

reg_asym_sam_26_avg_mean vs run
χ² / ndf 50.45 / 48
p0 −4959 ± 1569
pull
Entries 49
Mean −60.69
Std Dev 111.2

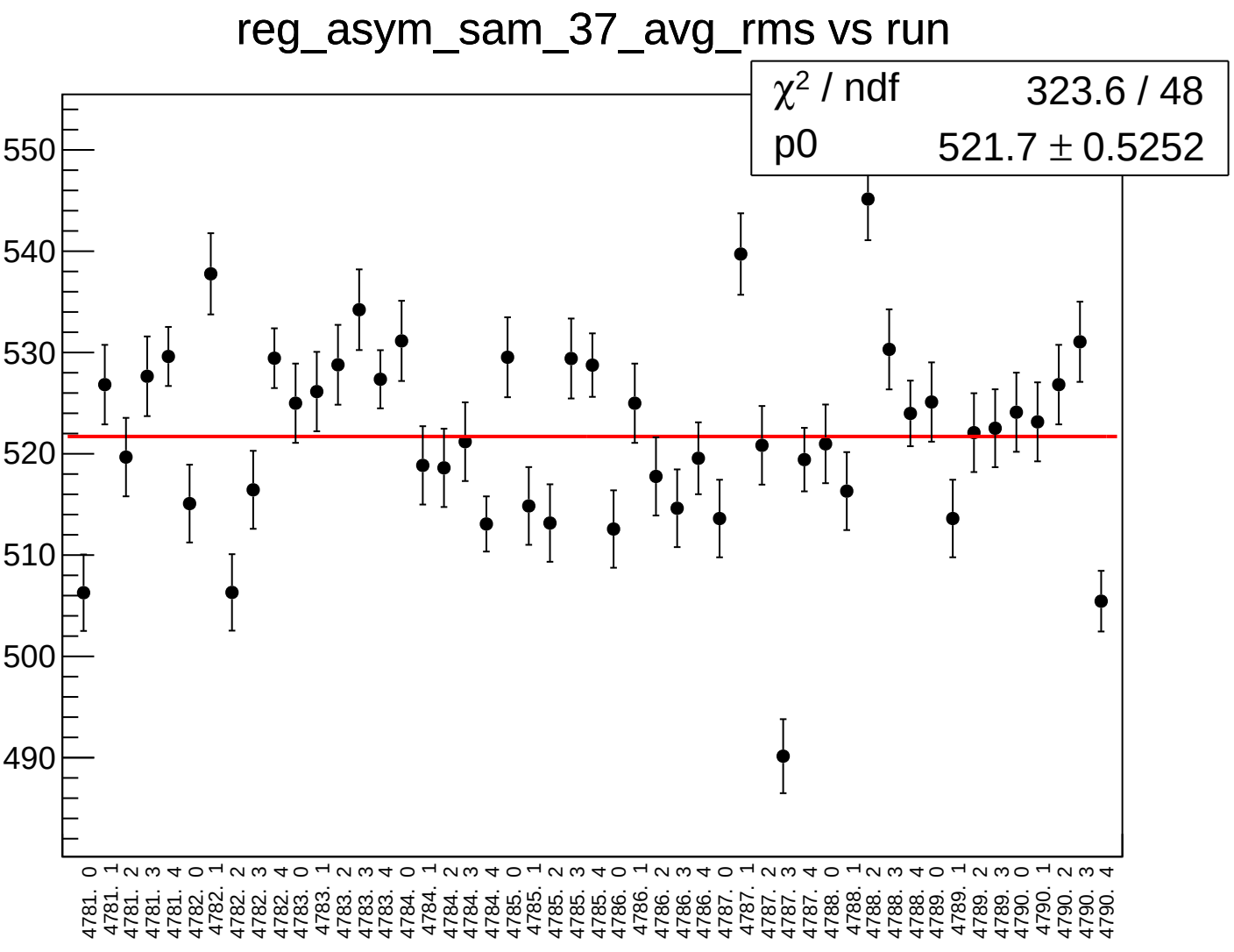

pull1D
Entries 49
Mean −0.003165
Std Dev 1.015


reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 443.2 / 48
p0 1102 ± 1.11
1140
1120
1100
1080
1060
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


asym_sam_26_avg_correction_mean vs run
χ² / ndf 31.18 / 48
p0 −9254 ± 2059
40000
20000
0
−20000
−40000
−60000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −1304
Std Dev 1330
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 49
Mean −0.00183
Std Dev 0.7977
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_correction_rms vs run
χ² / ndf 305.4 / 48
p0 1446 ± 1.456
1520
1500
1480
1460
1440
1420
1400
1380
1360
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


reg_asym_sam_37_avg_mean vs run
χ² / ndf 70.95 / 48
p0 −118.6 ± 742.8
20000
10000
0
−10000
−20000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −100.8
Std Dev 101.7
2
1
0
−1
−2
−3
pull1D
Entries 49
Mean −0.009666
Std Dev 1.203
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_37_avg_rms vs run
χ² / ndf 323.6 / 48
p0 521.7 ± 0.5252
550
540
530
520
510
500
490
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
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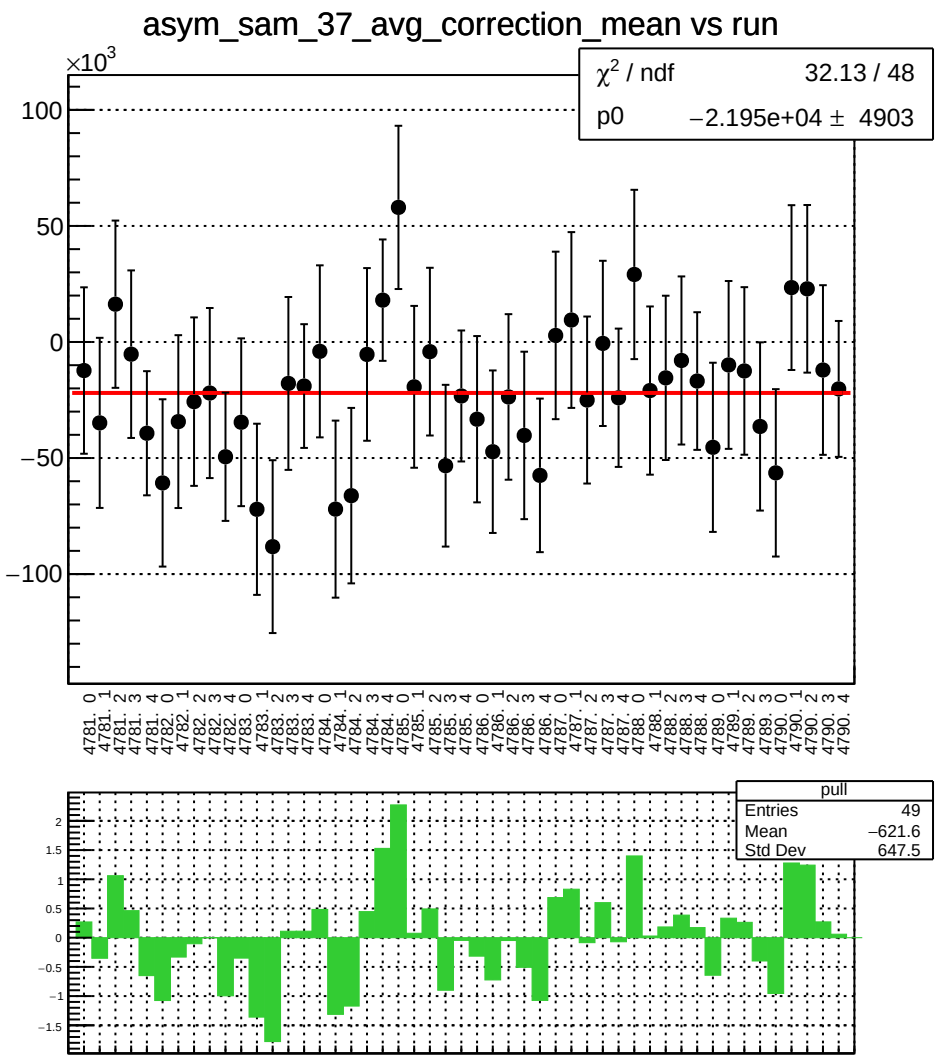
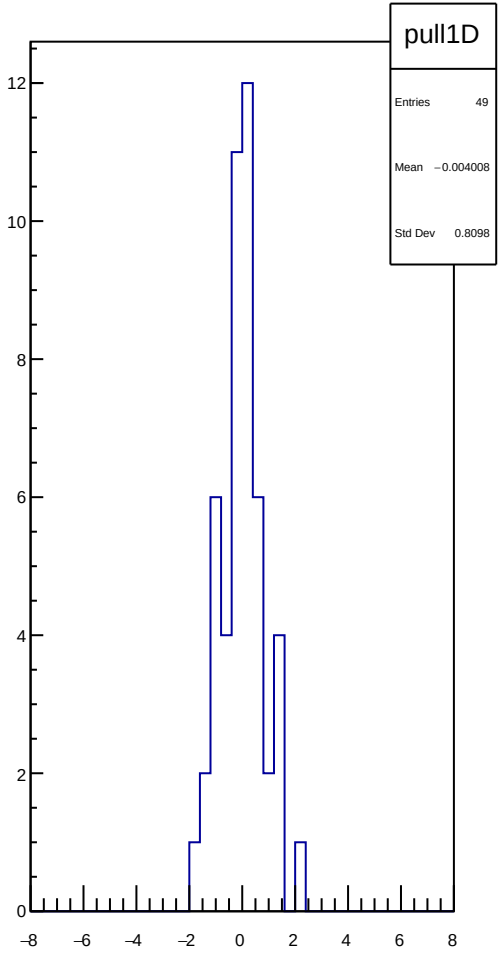
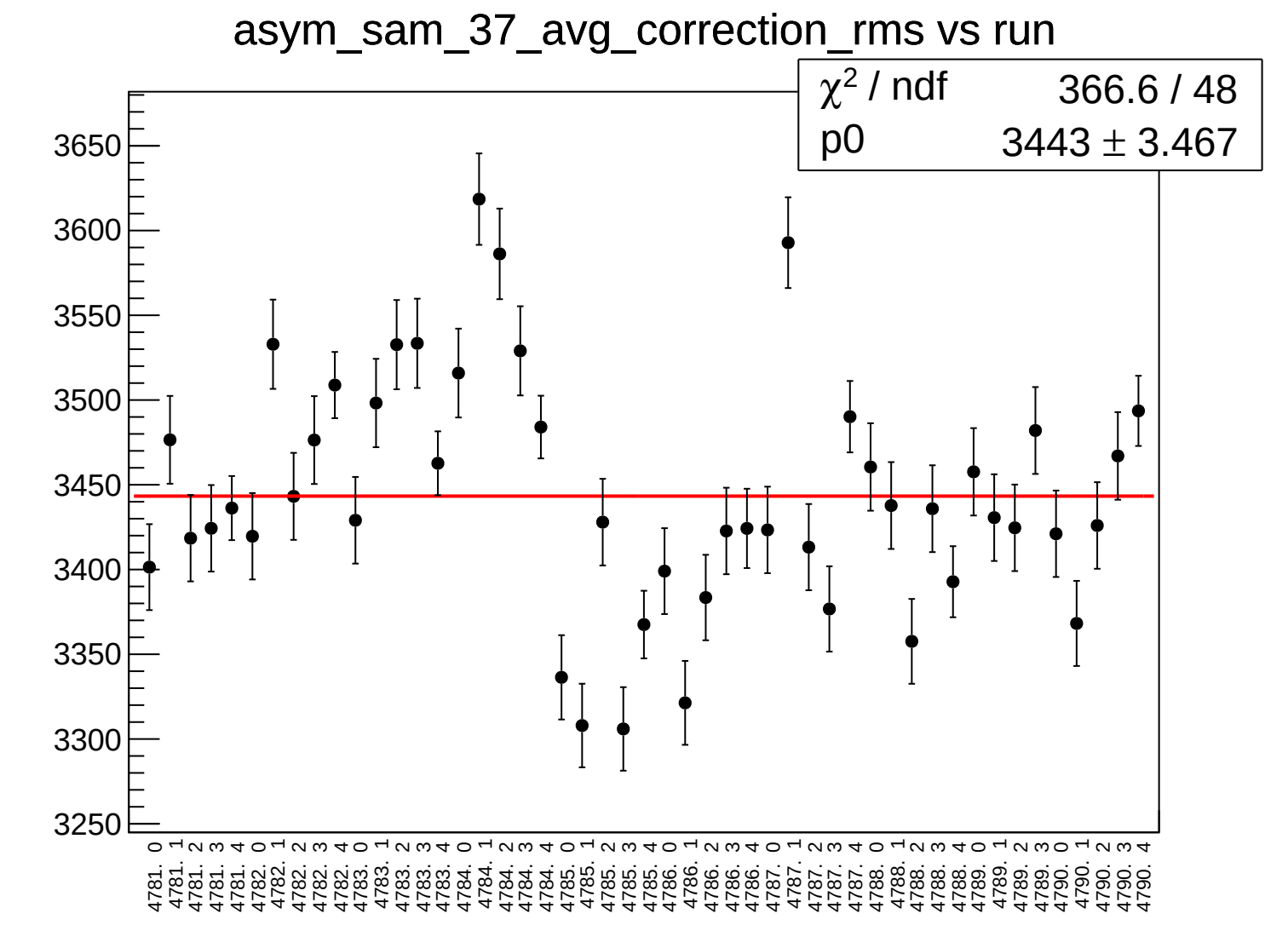
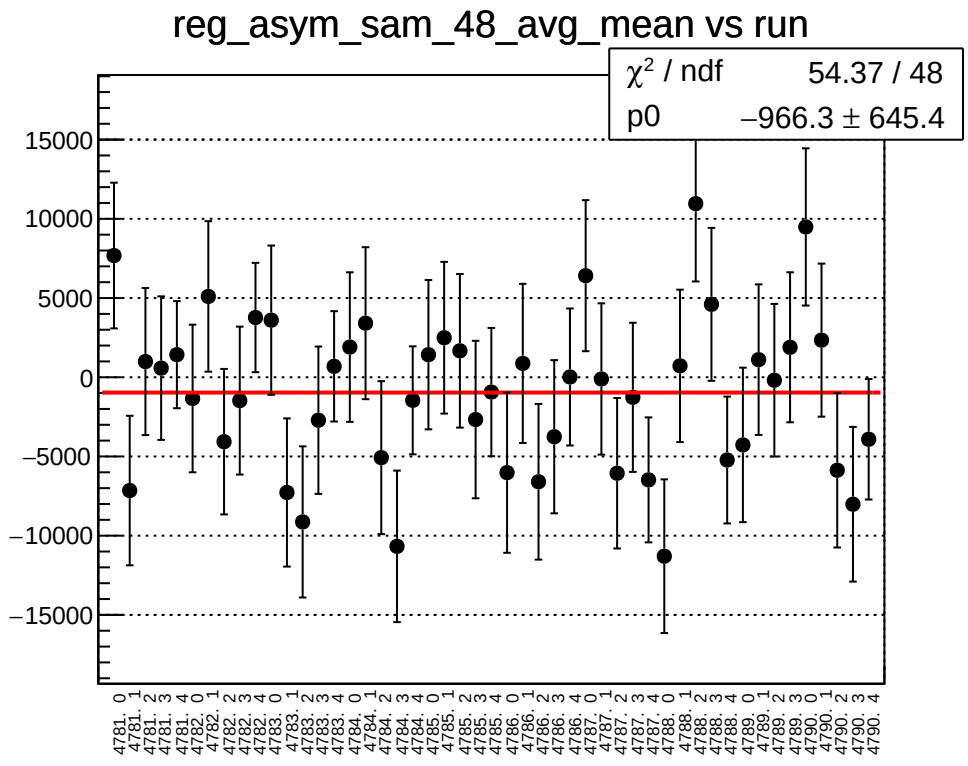
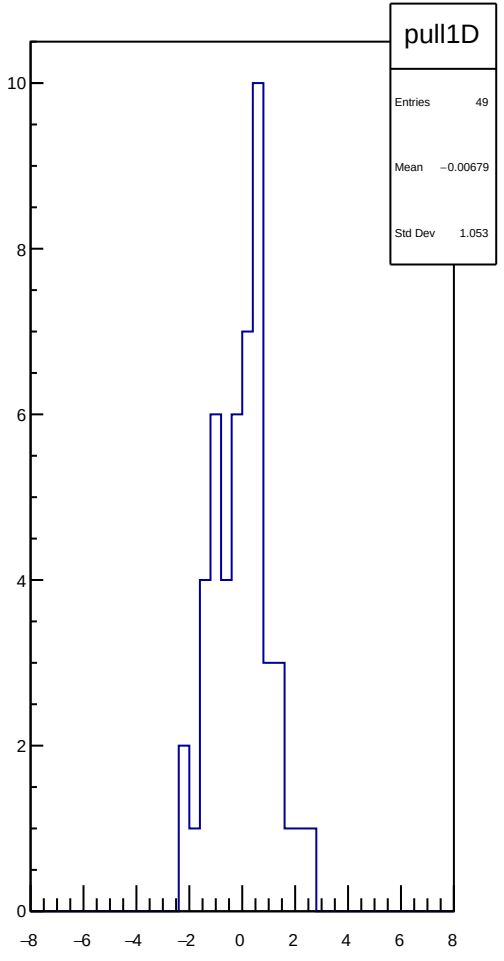
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

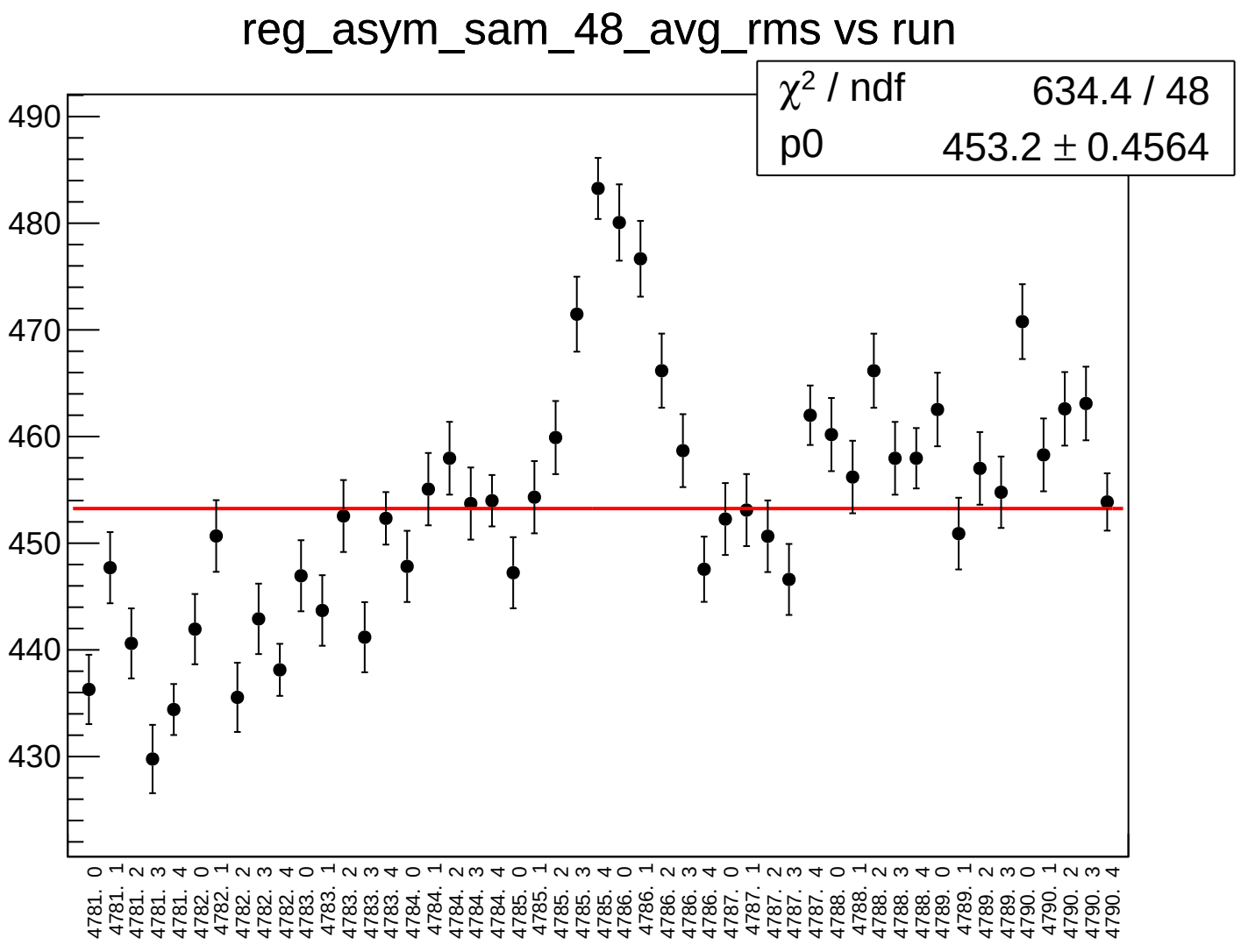

asym_sam_37_avg_correction_mean vs run
×10^3
χ² / ndf 32.13 / 48
p0 −2.195e+04 ± 4903
100
50
0
−50
−100
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −621.6
Std Dev 647.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

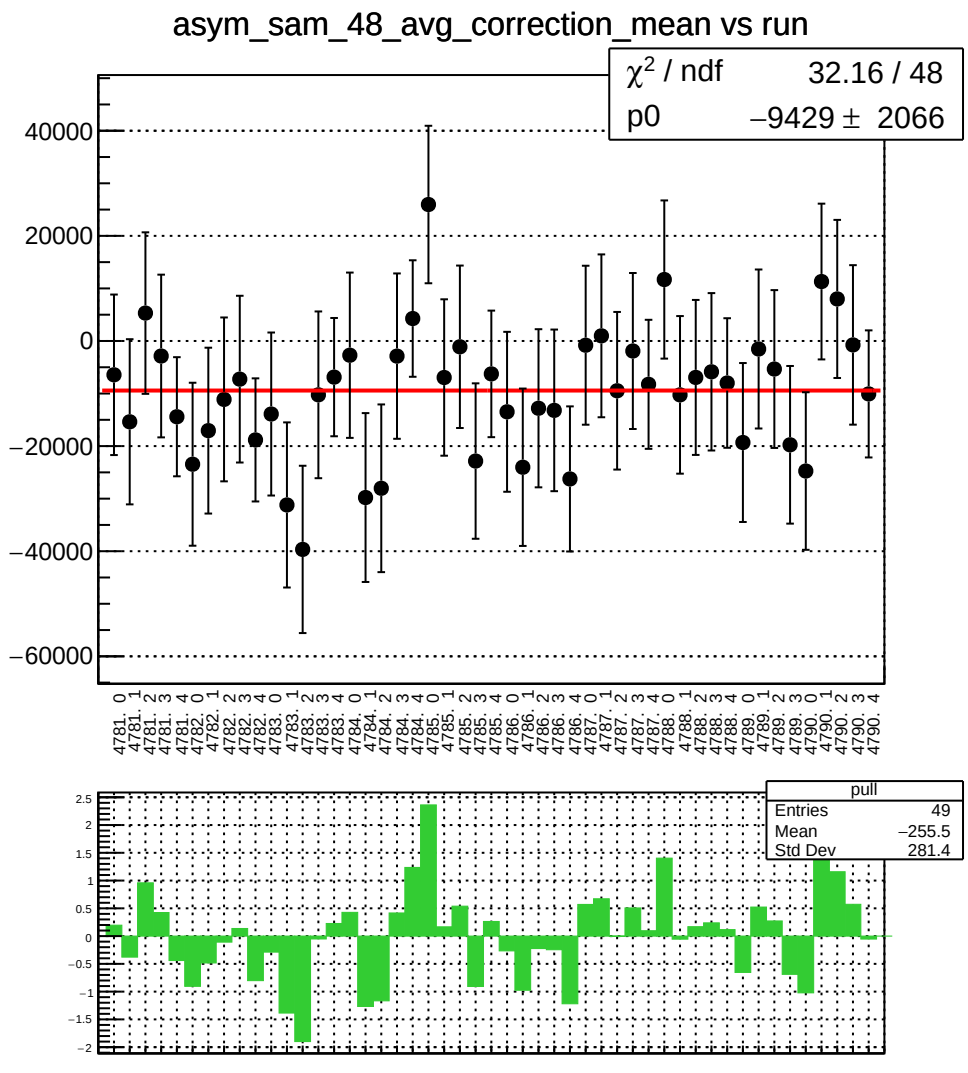

pull1D
Entries 49
Mean −0.004008
Std Dev 0.8098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

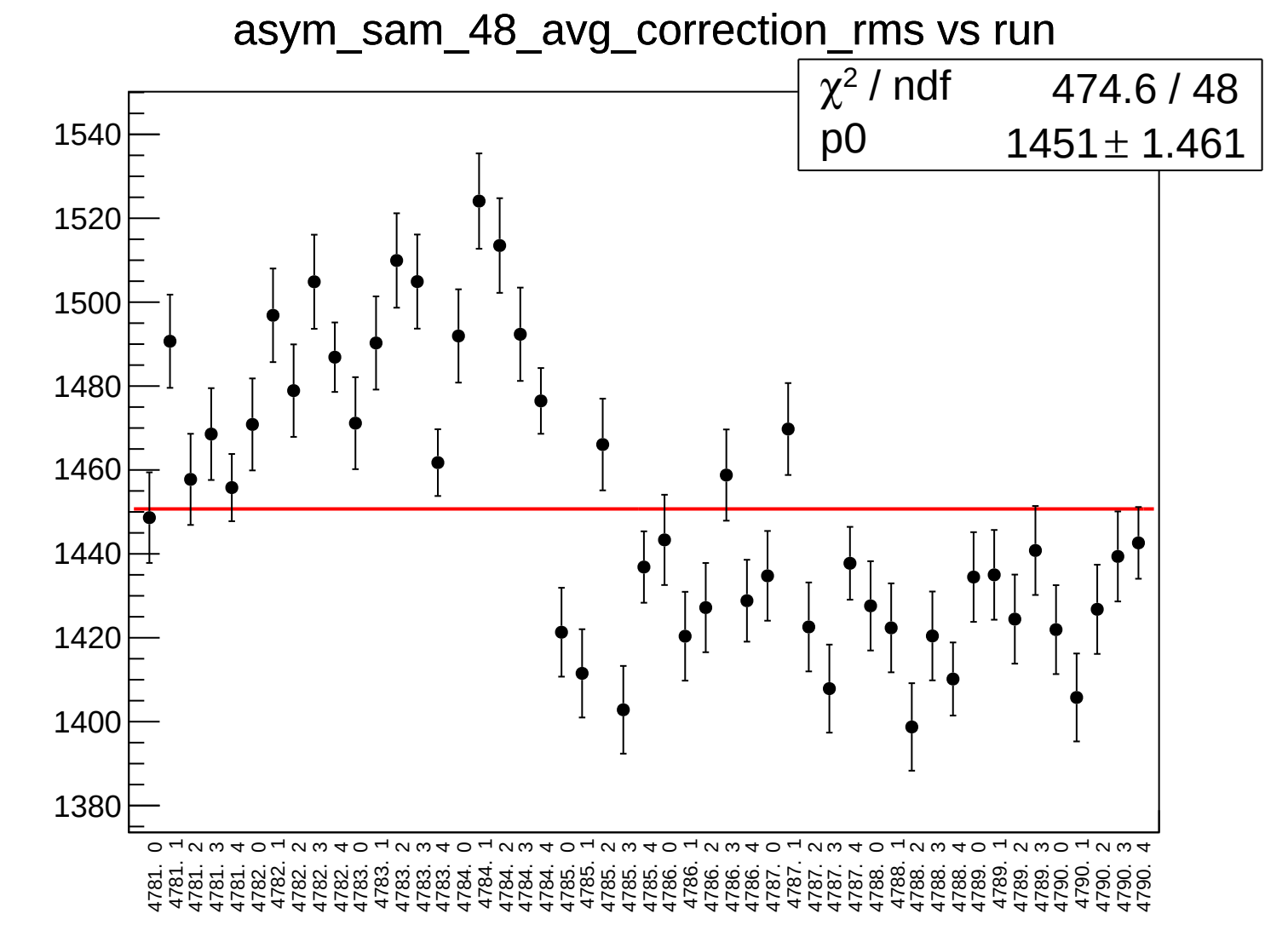

asym_sam_37_avg_correction_rms vs run
χ² / ndf 366.6 / 48
p0 3443 ± 3.467
3650
3600
3550
3500
3450
3400
3350
3300
3250
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

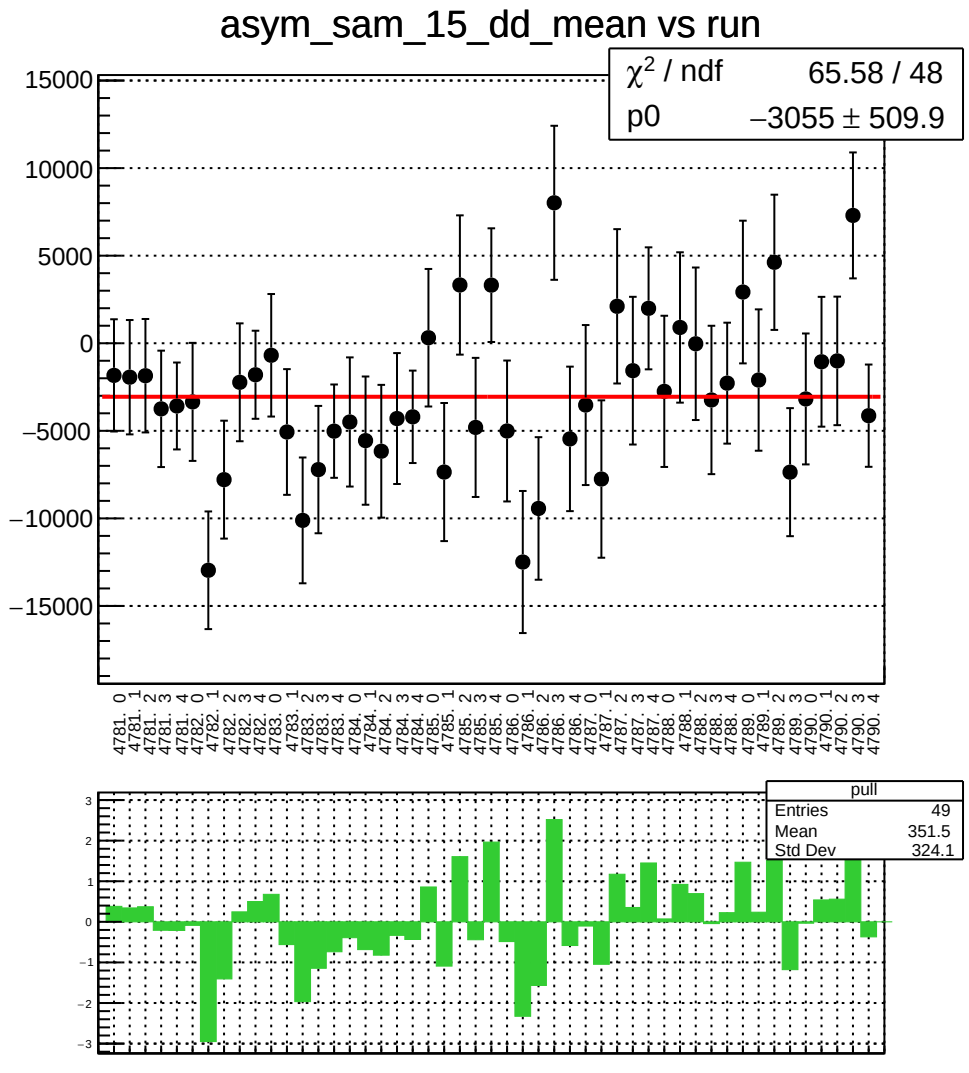

reg_asym_sam_48_avg_mean vs run
χ² / ndf 54.37 / 48
p0 −966.3 ± 645.4
15000
10000
5000
0
−5000
−10000
−15000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 207.2
Std Dev 190.2
2
1
0
−1
−2

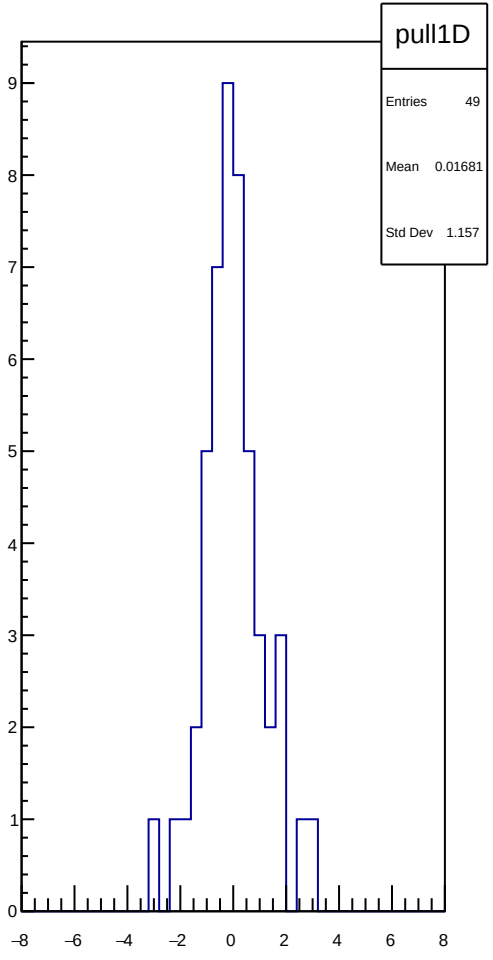

pull1D
Entries 49
Mean −0.00679
Std Dev 1.053
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

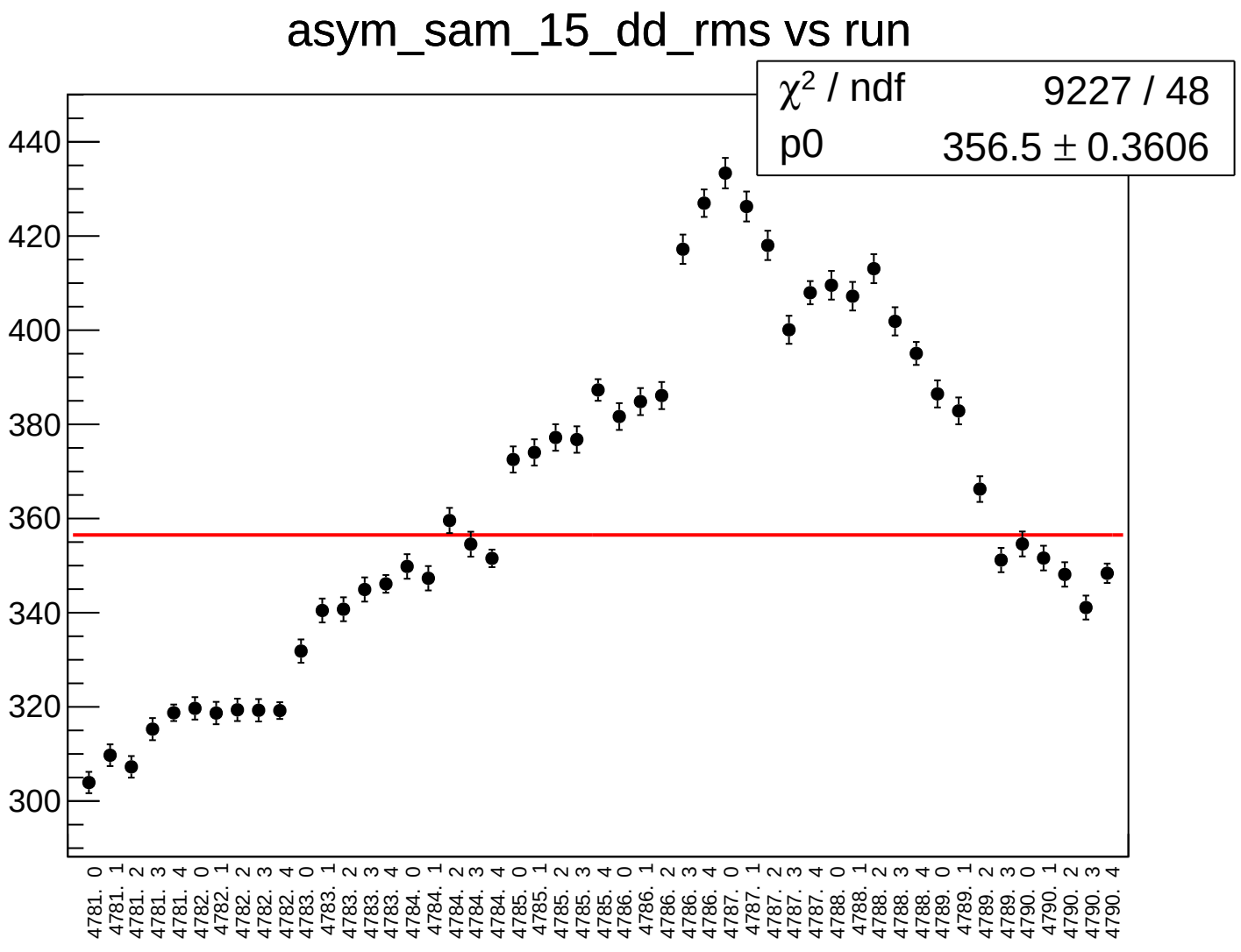

reg_asym_sam_48_avg_rms vs run
χ² / ndf 634.4 / 48
p0 453.2 ± 0.4564
490
480
470
460
450
440
430
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

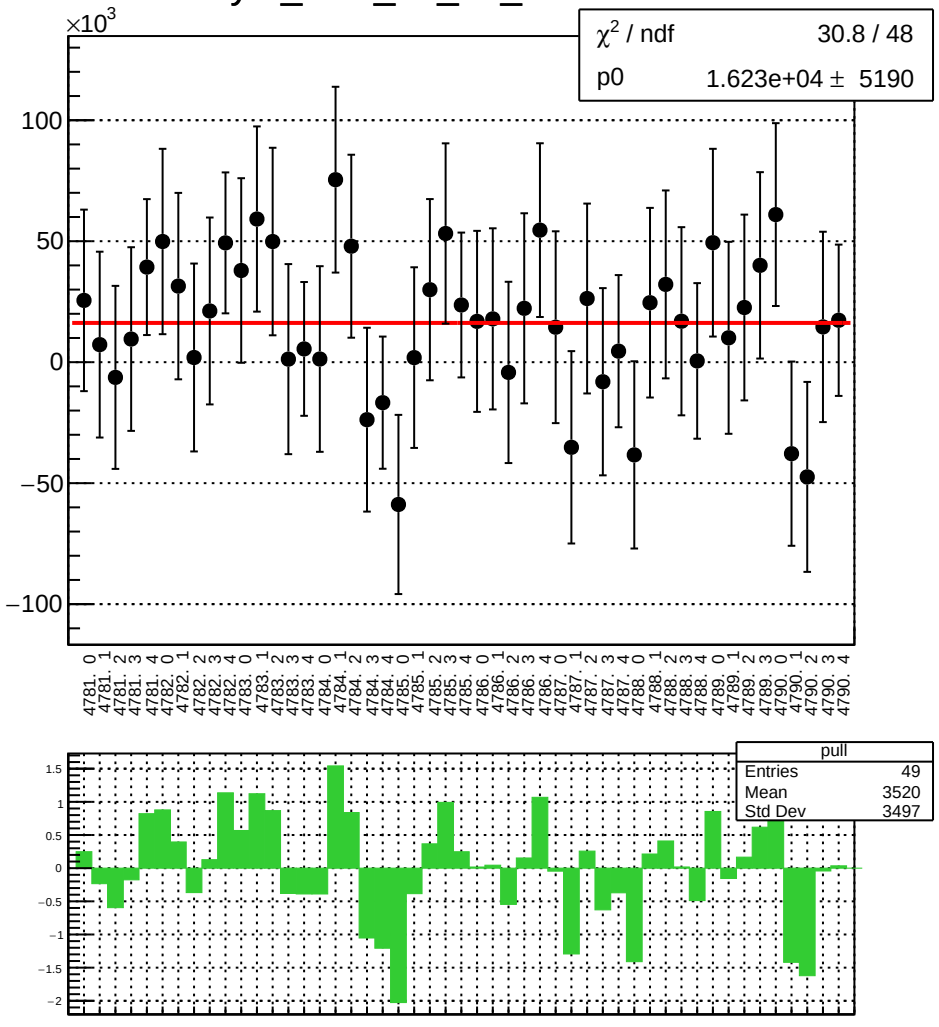

asym_sam_48_avg_correction_mean vs run
χ² / ndf 32.16 / 48
p0 −9429 ± 2066
40000
20000
0
−20000
−40000
−60000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −255.5
Std Dev 281.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean −0.008853
Std Dev 0.8101
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

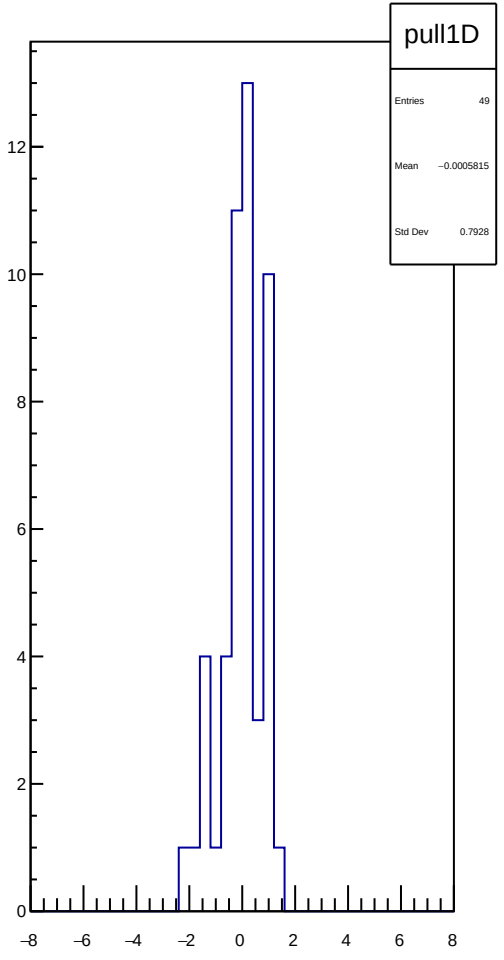

asym_sam_48_avg_correction_rms vs run
χ² / ndf 474.6 / 48
p0 1451 ± 1.461
1540
1520
1500
1480
1460
1440
1420
1400
1380
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

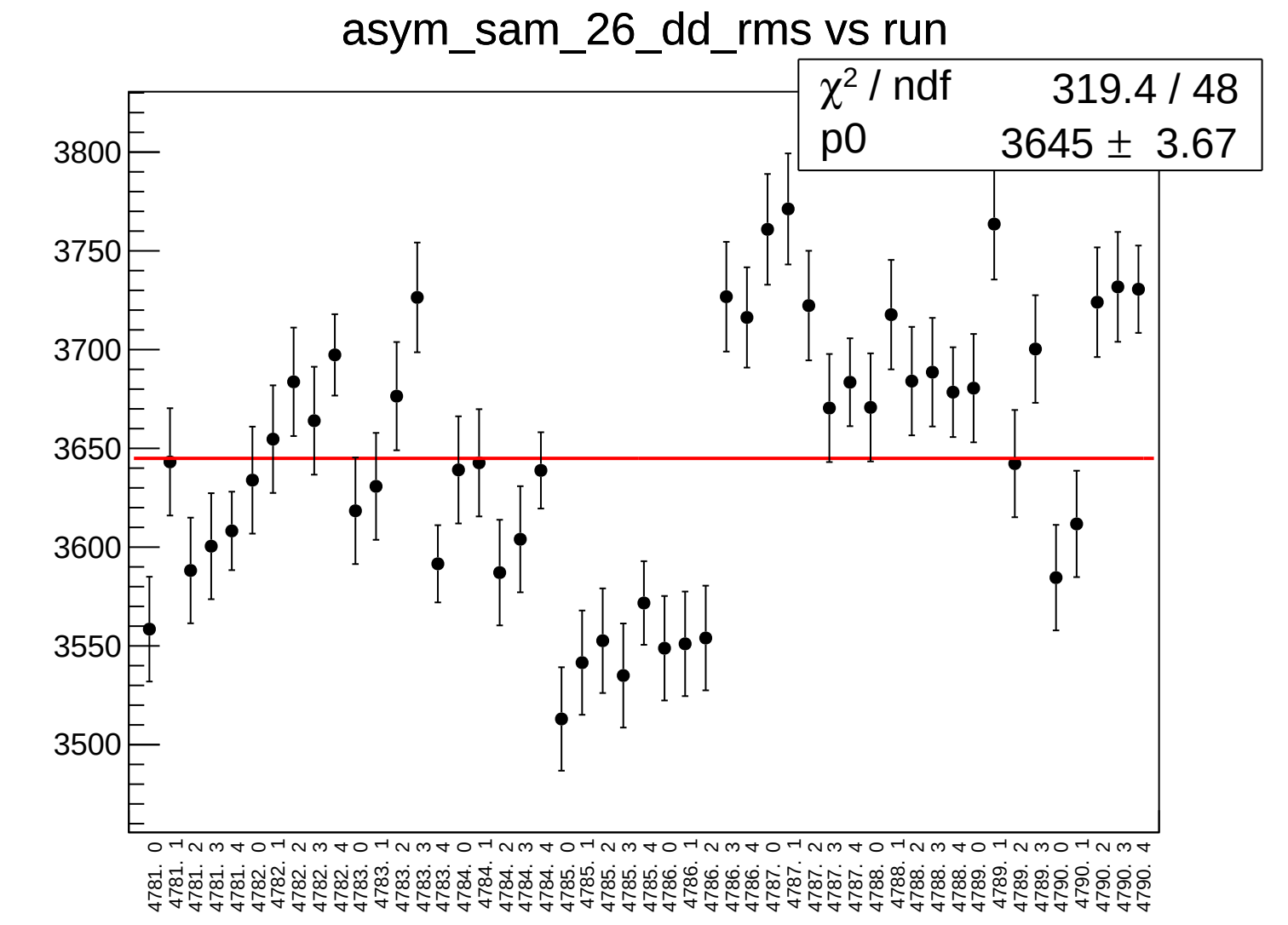

asym_sam_15_dd_mean vs run
χ² / ndf 65.58 / 48
p0 −3055 ± 509.9
15000
10000
5000
0
−5000
−10000
−15000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 351.5
Std Dev 324.1
3
2
1
0
−1
−2
−3

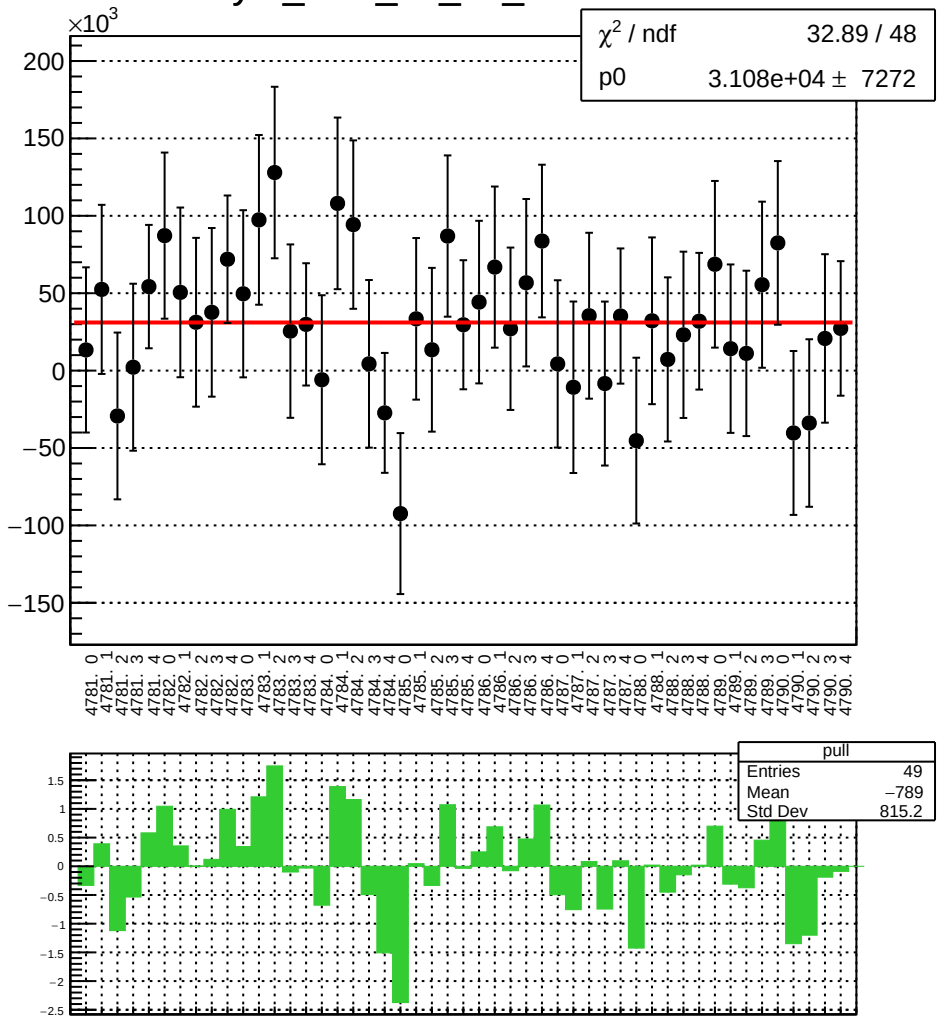

pull1D
Entries 49
Mean 0.01681
Std Dev 1.157
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

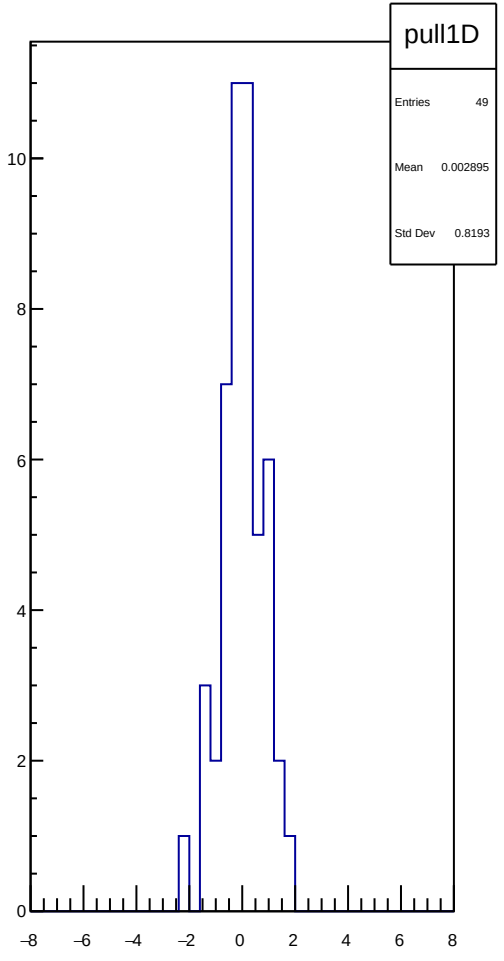

asym_sam_15_dd_rms vs run
χ^2 / ndf 9227 / 48
p0 356.5 ± 0.3606
440
420
400
380
360
340
320
300
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

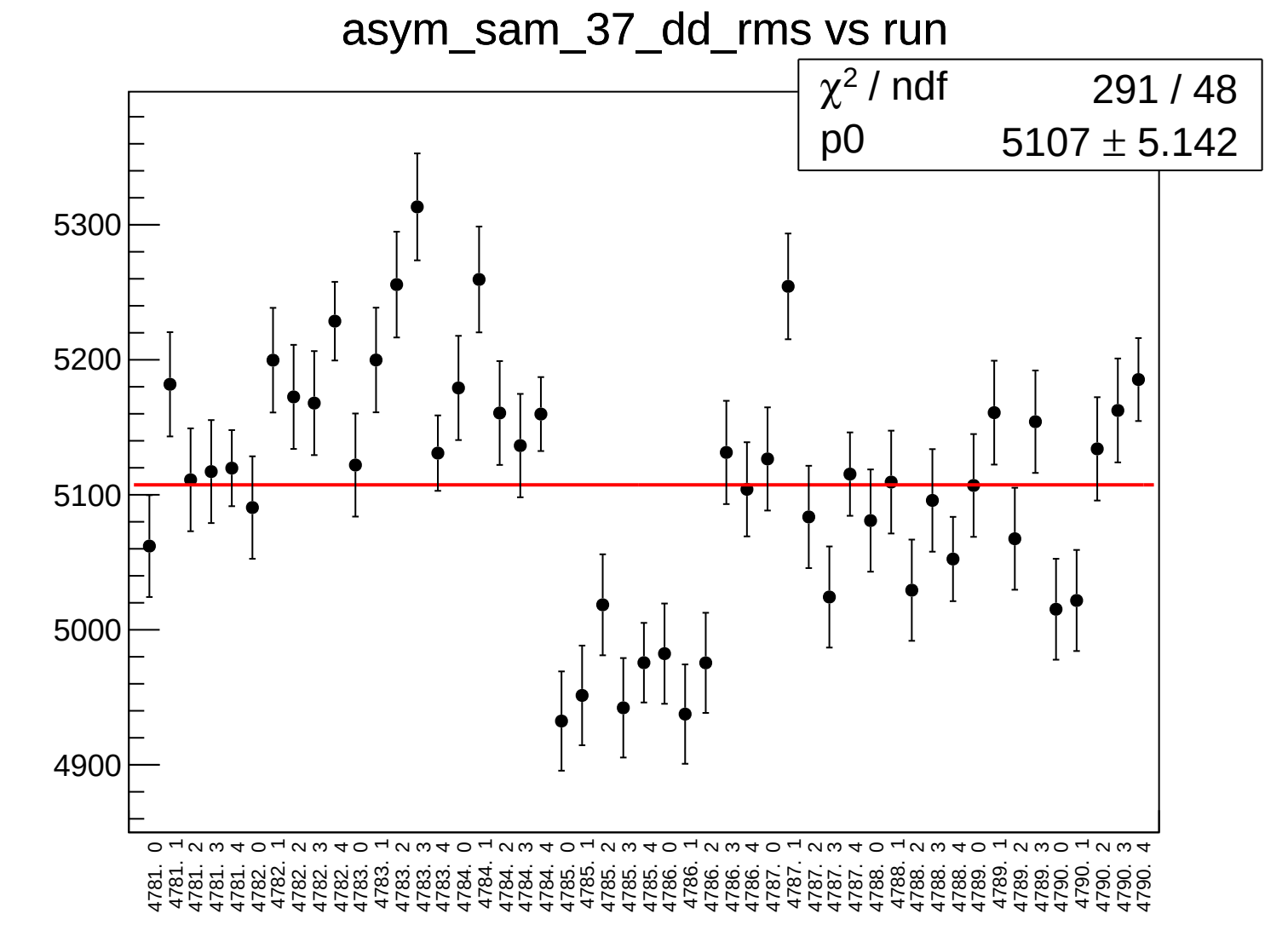

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 30.8 / 48
p0 1.623e+04 ± 5190
100
50
0
−50
−100
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 3520
Std Dev 3497
1.5
1
0.5
0
−0.5
−1
−1.5
−2

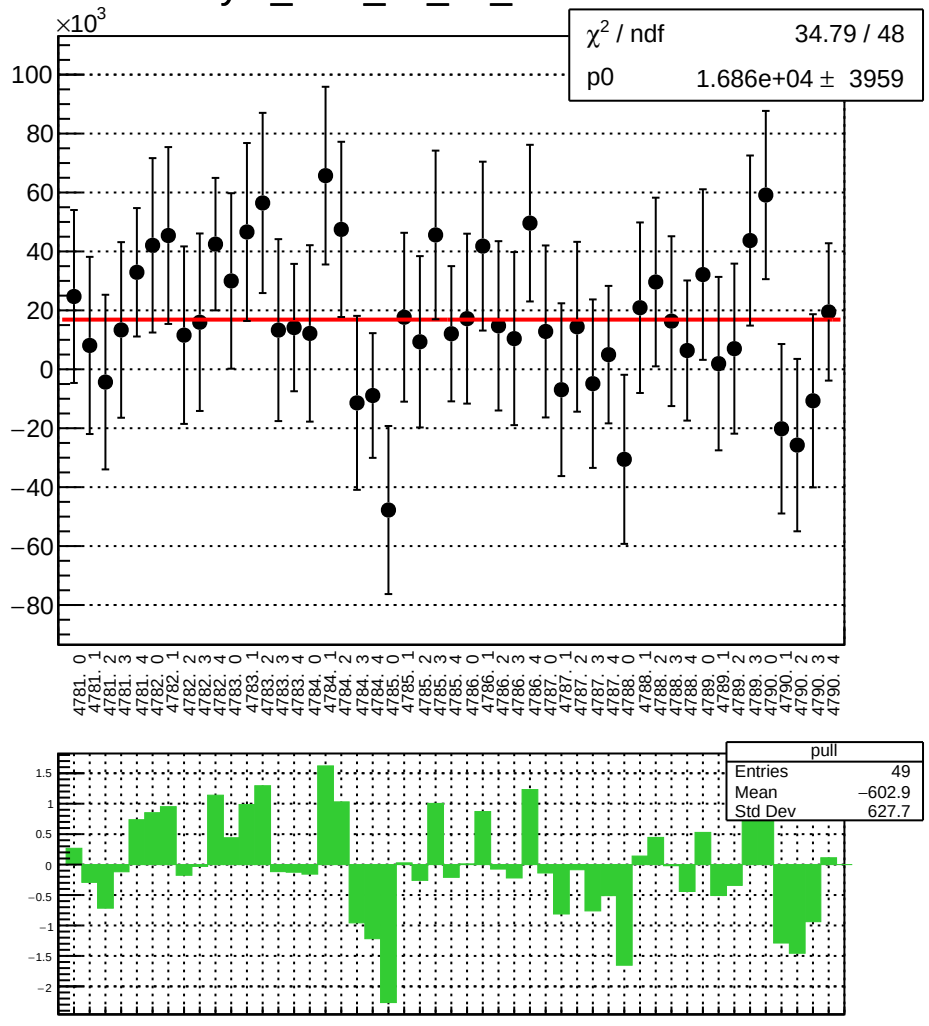

pull1D
Entries 49
Mean −0.0005815
Std Dev 0.7928
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

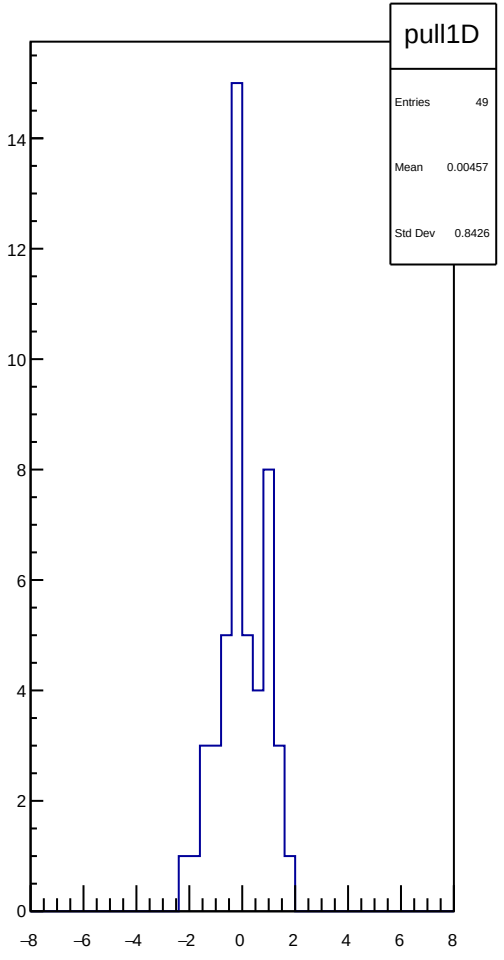

asym_sam_26_dd_rms vs run
χ² / ndf 319.4 / 48
p0 3645 ± 3.67
3800
3750
3700
3650
3600
3550
3500
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

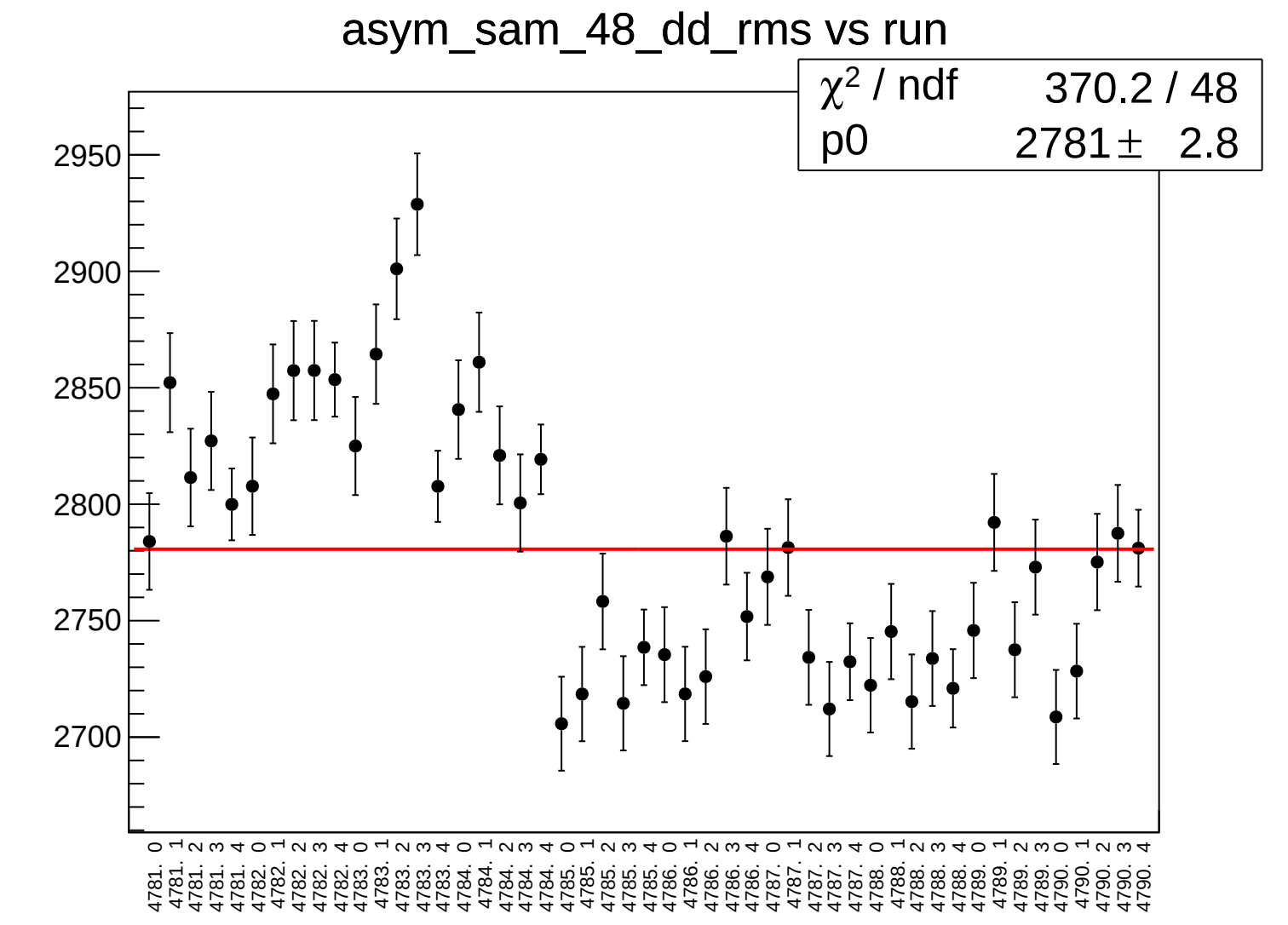

asym_sam_37_dd_mean vs run
×10^3
χ² / ndf 32.89 / 48
p0 3.108e+04 ± 7272
pull
Entries 49
Mean −789
Std Dev 815.2

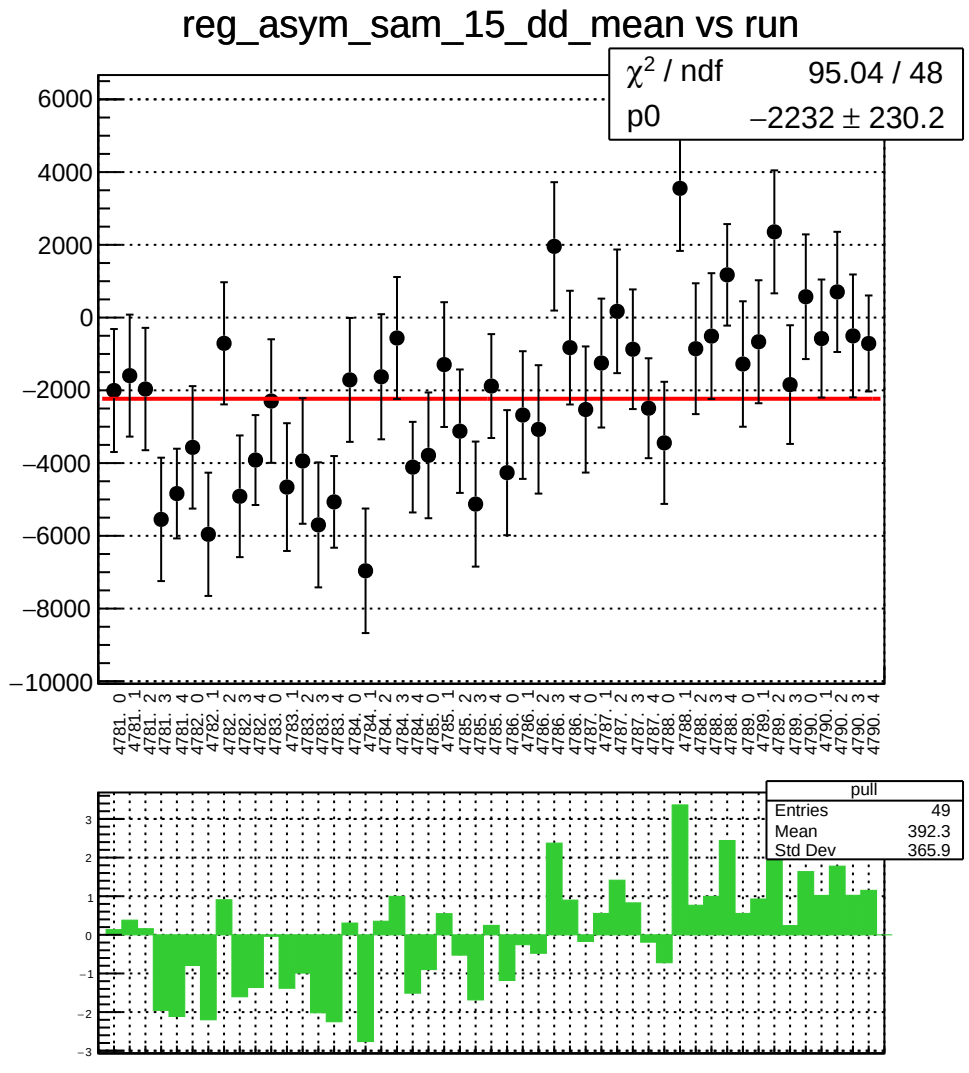

pull1D
Entries 49
Mean 0.002895
Std Dev 0.8193

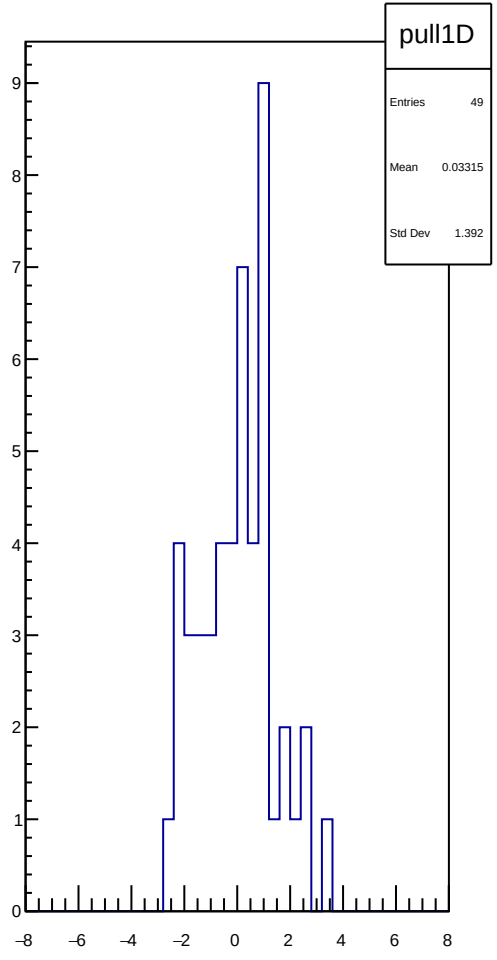

asym_sam_37_dd_rms vs run
χ^2 / ndf 291 / 48
p0 5107 ± 5.142
5300
5200
5100
5000
4900
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

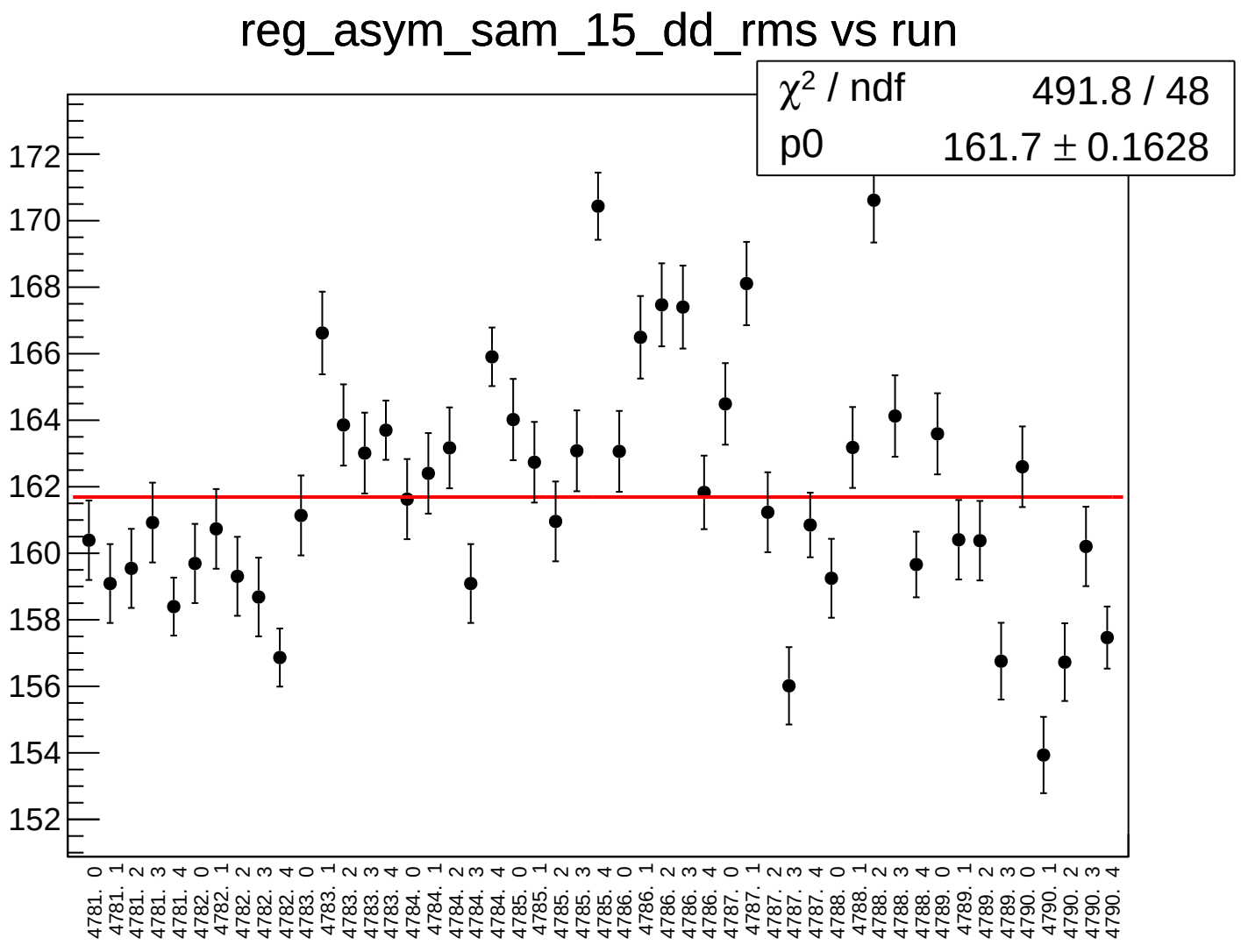

asym_sam_48_dd_mean vs run
×10^3
χ² / ndf 34.79 / 48
p0 1.686e+04 ± 3959
pull
Entries 49
Mean −602.9
Std Dev 627.7

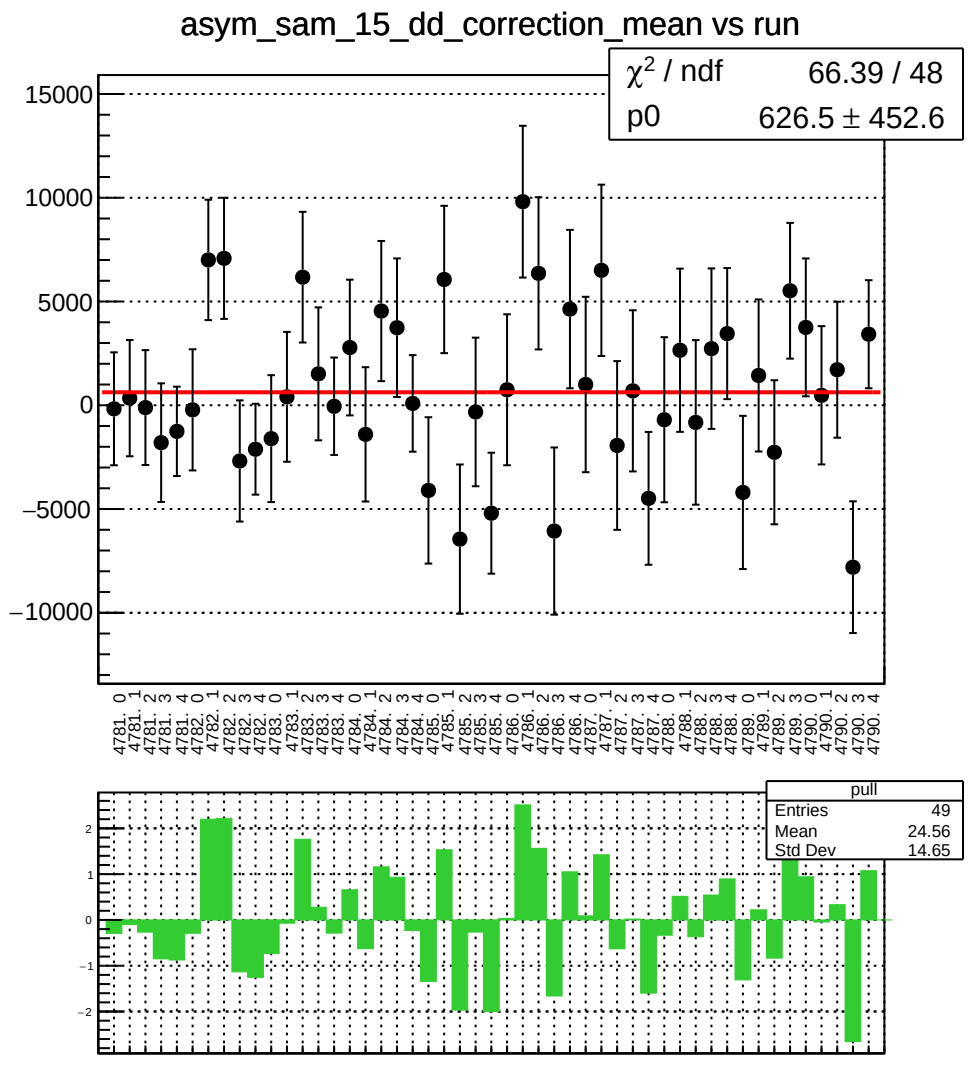

pull1D
Entries 49
Mean 0.00457
Std Dev 0.8426

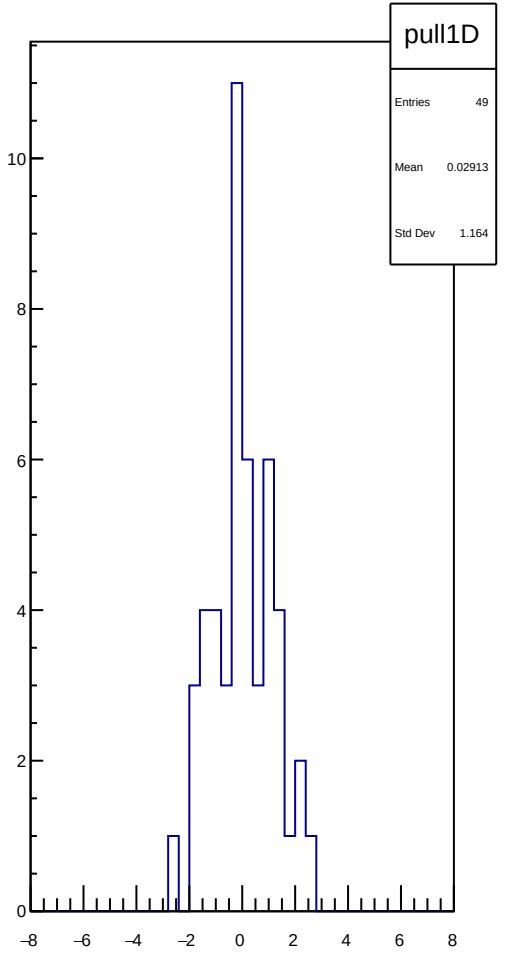

asym_sam_48_dd_rms vs run
χ² / ndf 370.2 / 48
p0 2781 ± 2.8
2950
2900
2850
2800
2750
2700
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

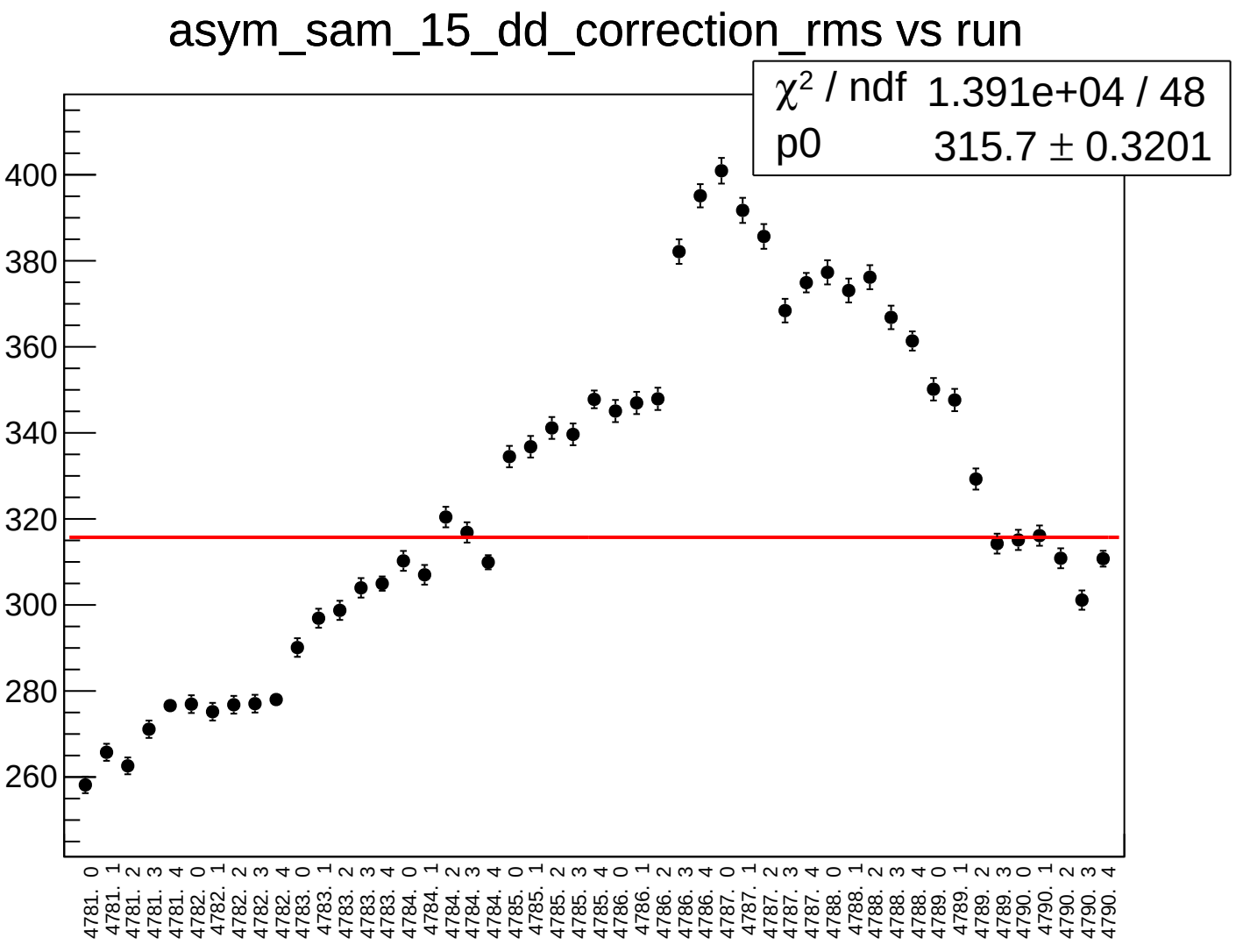

reg_asym_sam_15_dd_mean vs run
χ² / ndf 95.04 / 48
p0 −2232 ± 230.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 392.3
Std Dev 365.9
3
2
1
0
−1
−2
−3

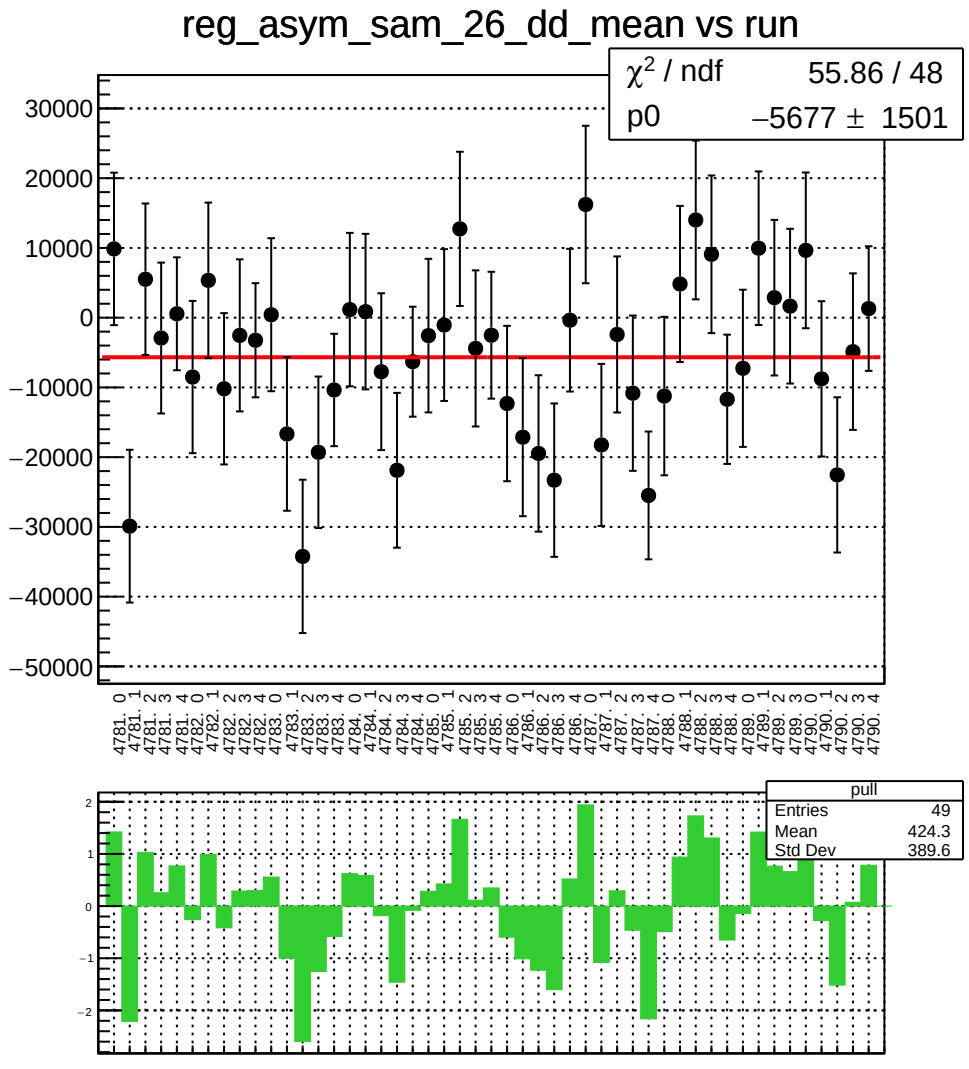

pull1D
Entries 49
Mean 0.03315
Std Dev 1.392
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

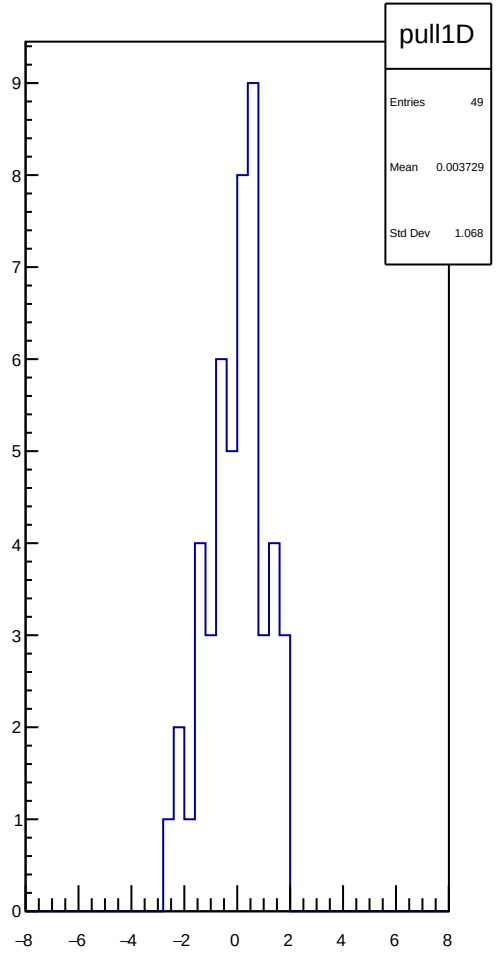

reg_asym_sam_15_dd_rms vs run
χ² / ndf 491.8 / 48
p0 161.7 ± 0.1628
172
170
168
166
164
162
160
158
156
154
152
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

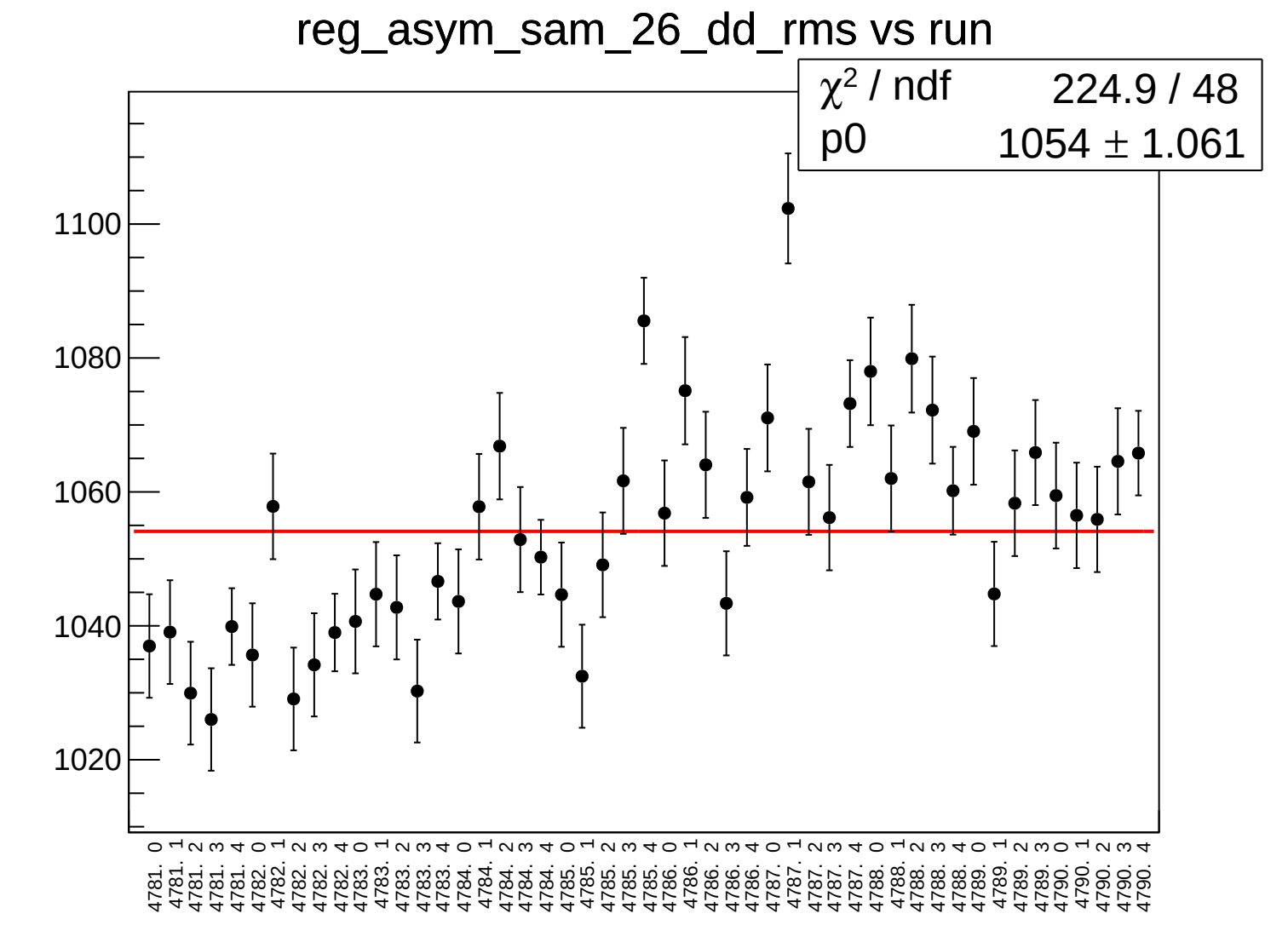

asym_sam_15_dd_correction_mean vs run
χ² / ndf 66.39 / 48
p0 626.5 ± 452.6
15000
10000
5000
0
−5000
−10000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 24.56
Std Dev 14.65
2
1
0
−1
−2

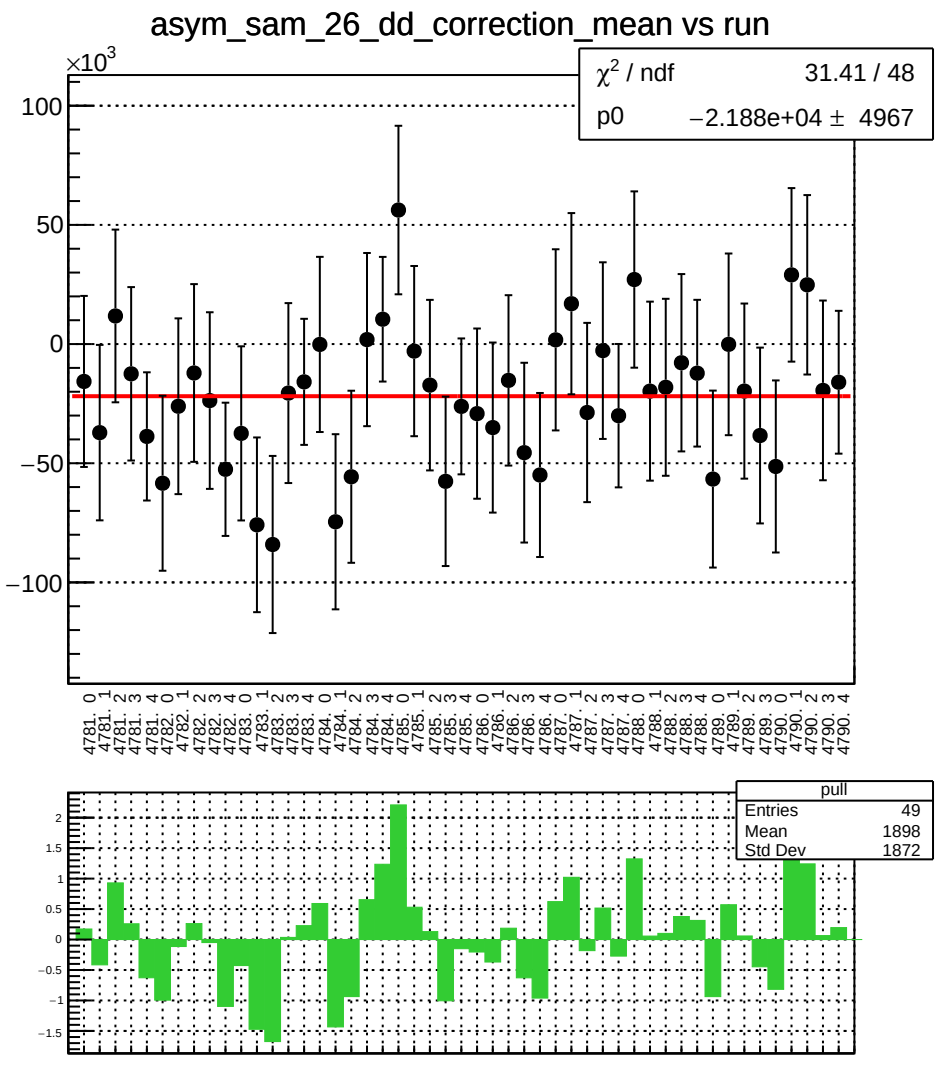

pull1D
Entries 49
Mean 0.02913
Std Dev 1.164
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

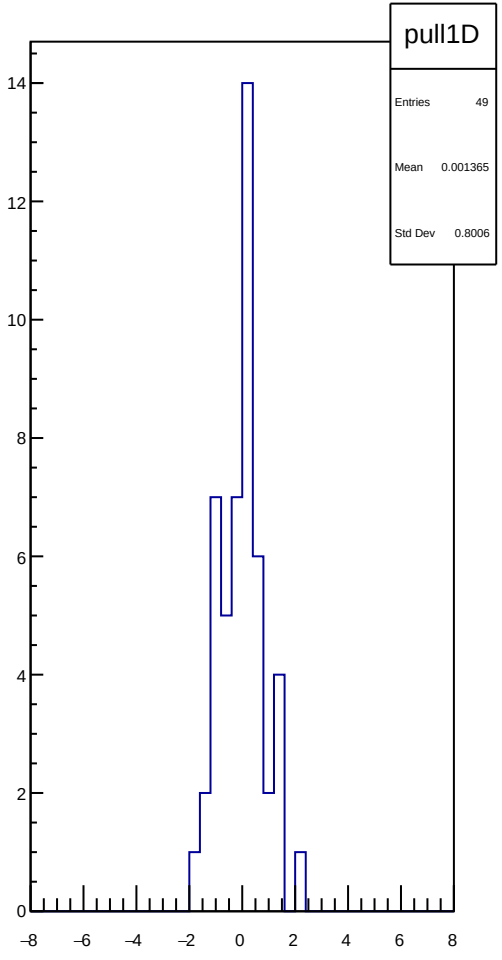

asym_sam_15_dd_correction_rms vs run
χ² / ndf 1.391e+04 / 48
p0 315.7 ± 0.3201
400
380
360
340
320
300
280
260
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

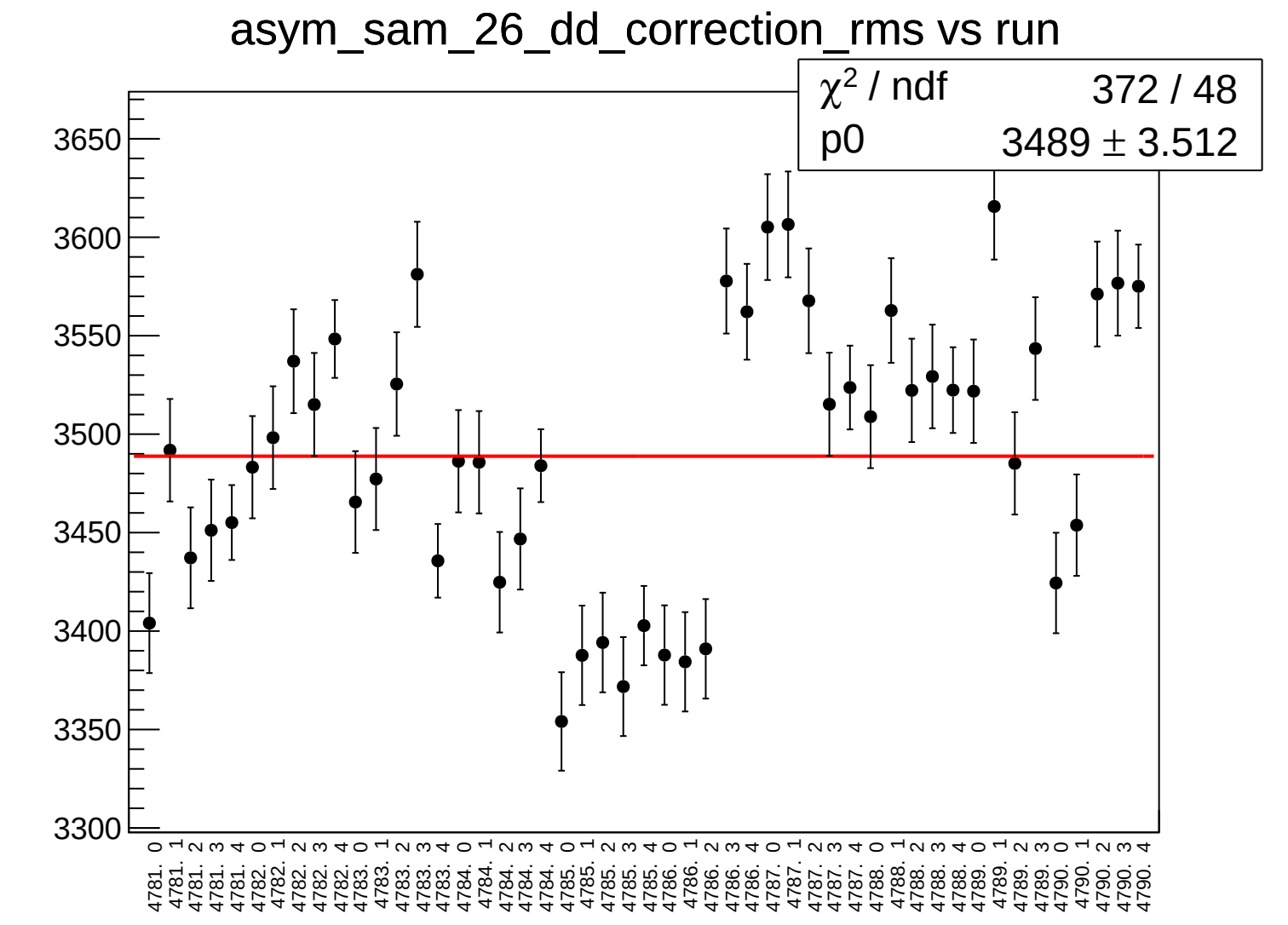

reg_asym_sam_26_dd_mean vs run
χ² / ndf 55.86 / 48
p0 −5677 ± 1501
pull
Entries 49
Mean 424.3
Std Dev 389.6

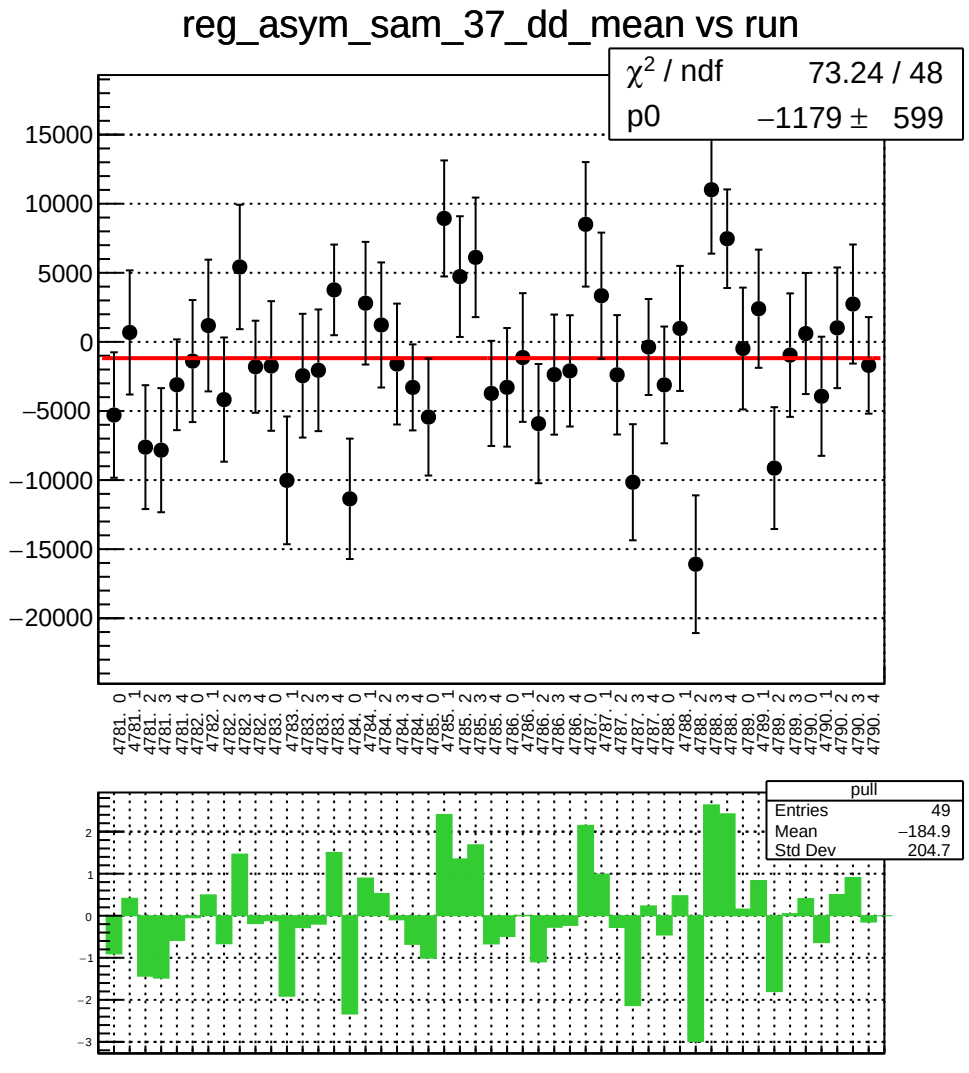

pull1D
Entries 49
Mean 0.003729
Std Dev 1.068

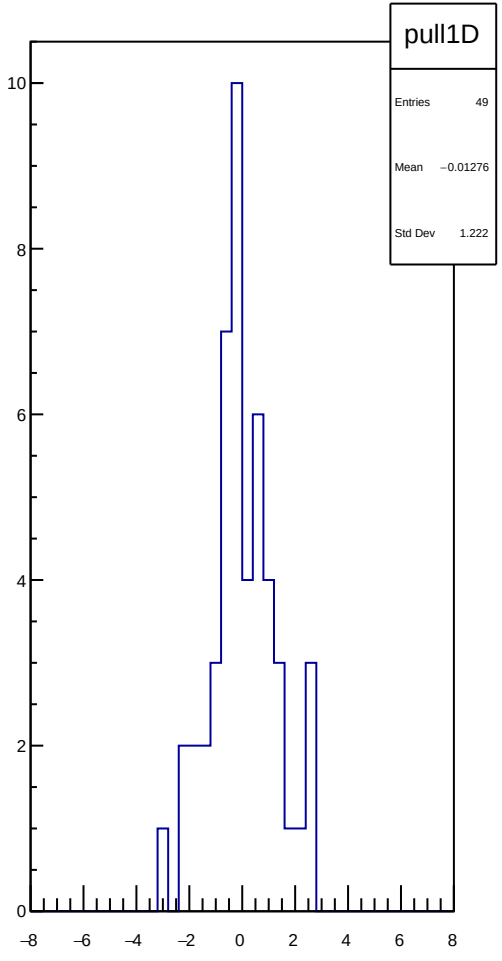

reg_asym_sam_26_dd_rms vs run
χ² / ndf 224.9 / 48
p0 1054 ± 1.061
1100
1080
1060
1040
1020
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

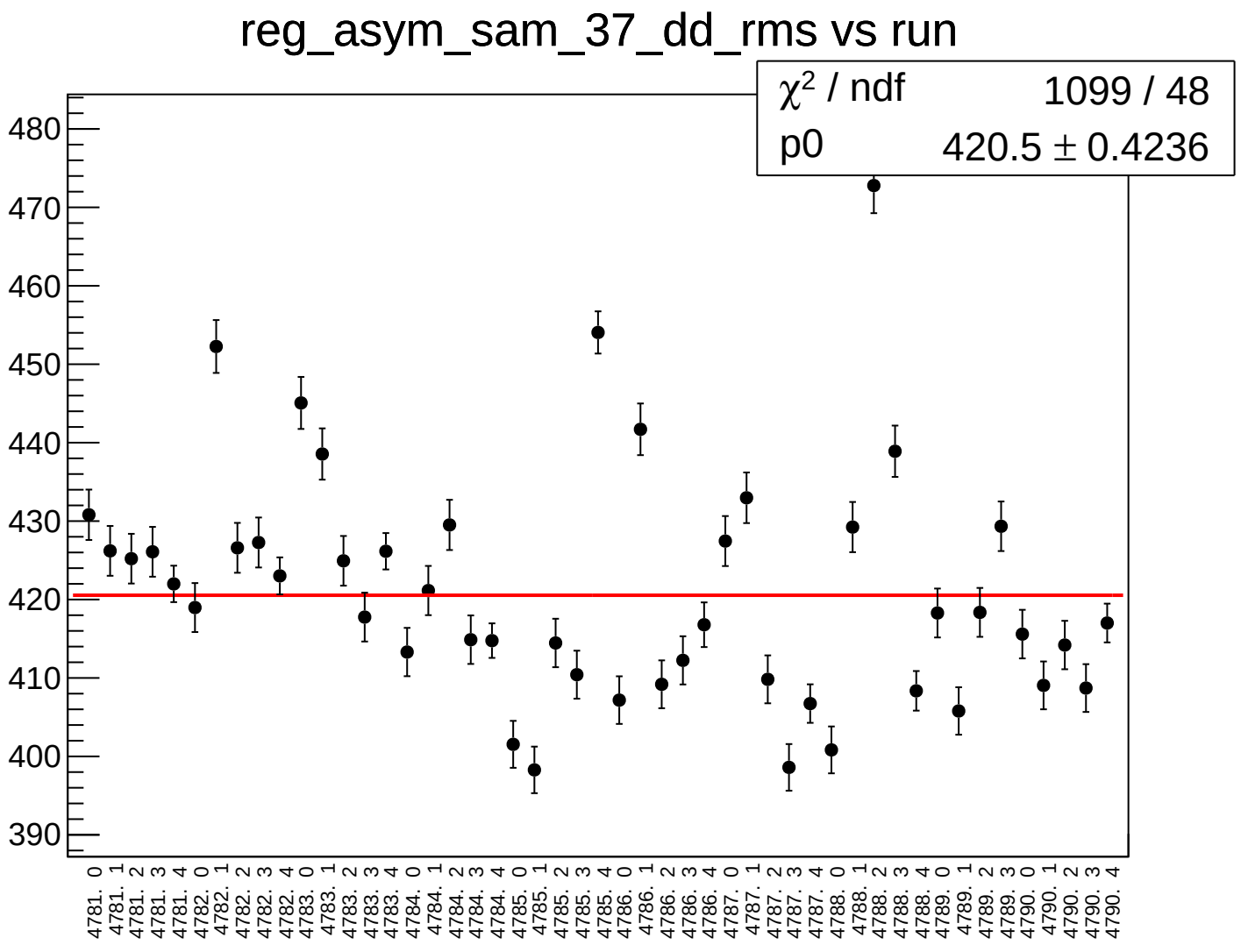

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 31.41 / 48
p0 −2.188e+04 ± 4967
100
50
0
−50
−100
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 1898
Std Dev 1872
2
1.5
1
0.5
0
−0.5
−1
−1.5

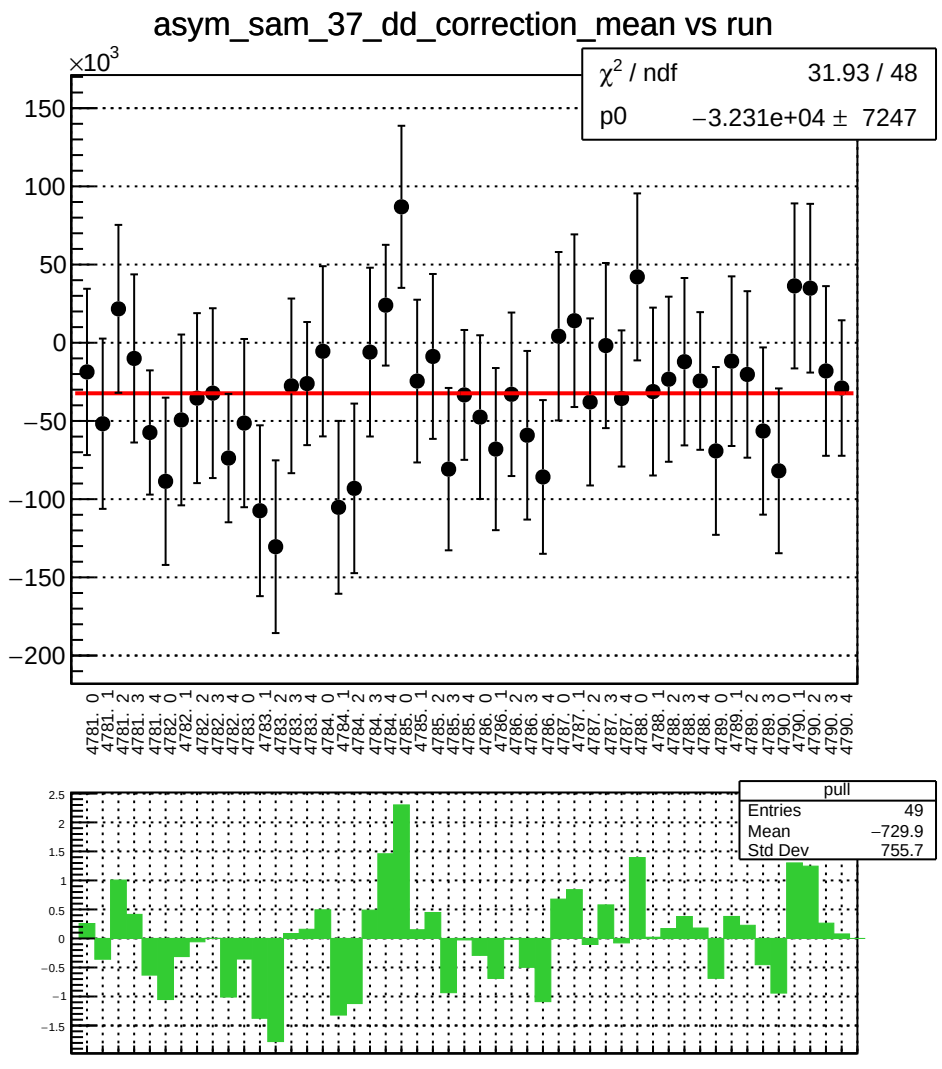

pull1D
Entries 49
Mean 0.001365
Std Dev 0.8006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

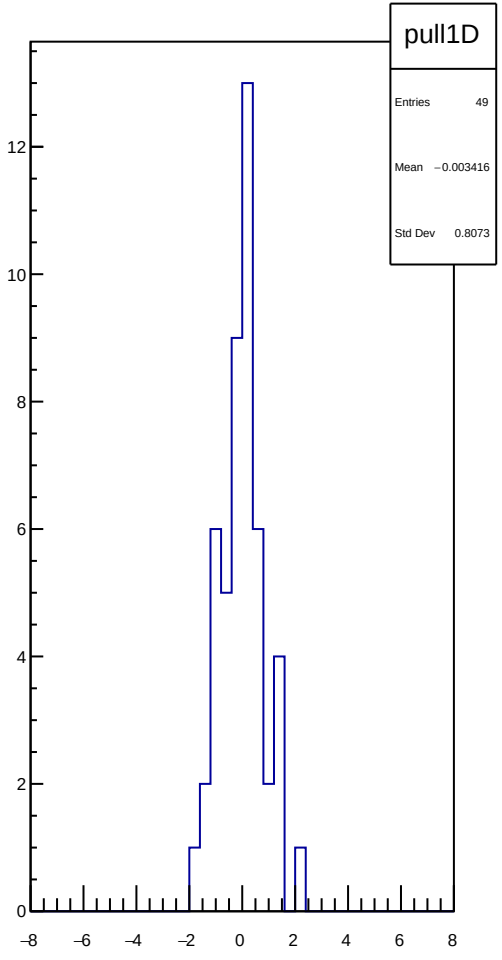

asym_sam_26_dd_correction_rms vs run
χ² / ndf 372 / 48
p0 3489 ± 3.512
3650
3600
3550
3500
3450
3400
3350
3300
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

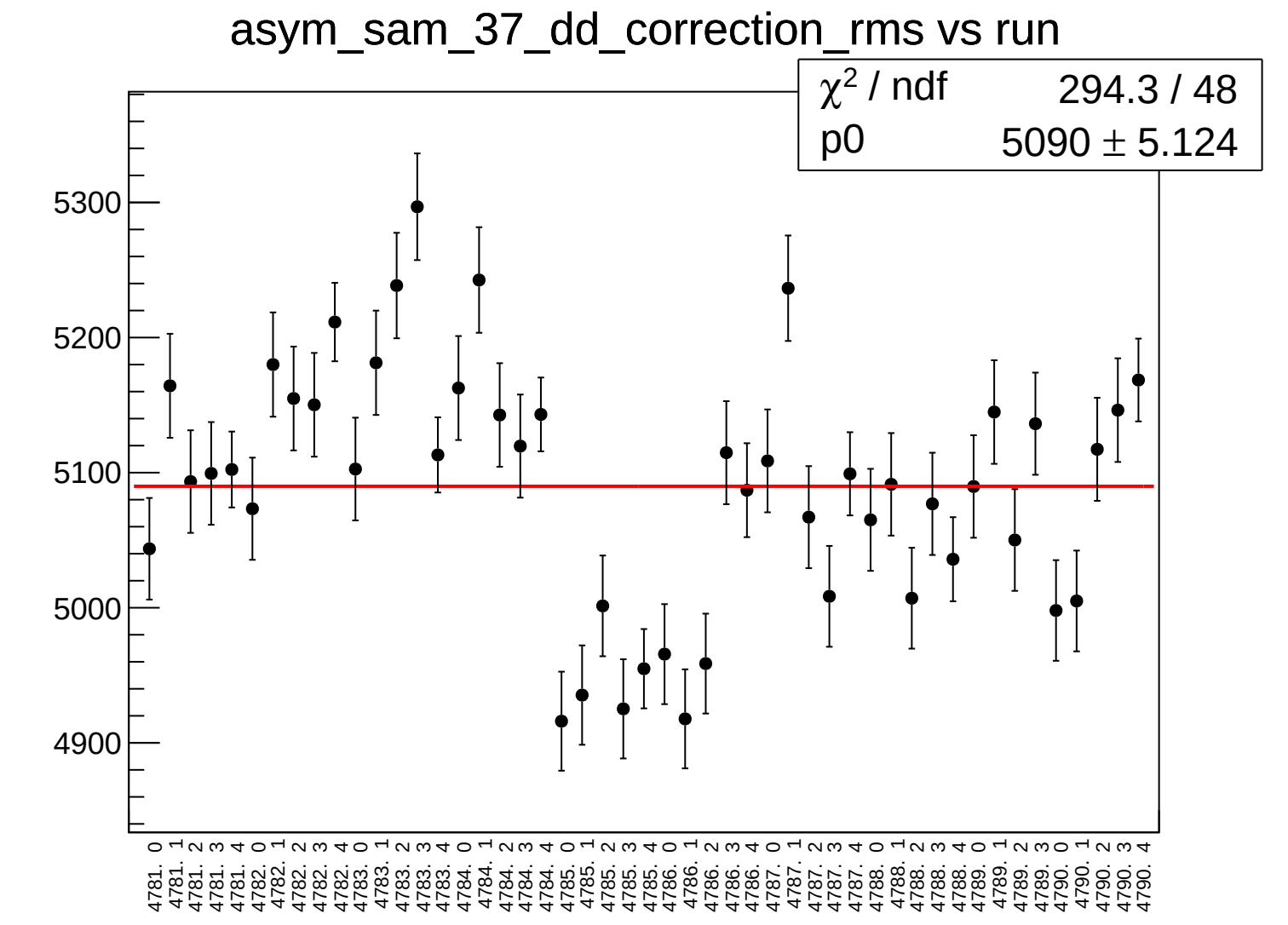

reg_asym_sam_37_dd_mean vs run
χ² / ndf 73.24 / 48
p0 −1179 ± 599
15000
10000
5000
0
−5000
−10000
−15000
−20000
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −184.9
Std Dev 204.7
2
1
0
−1
−2
−3

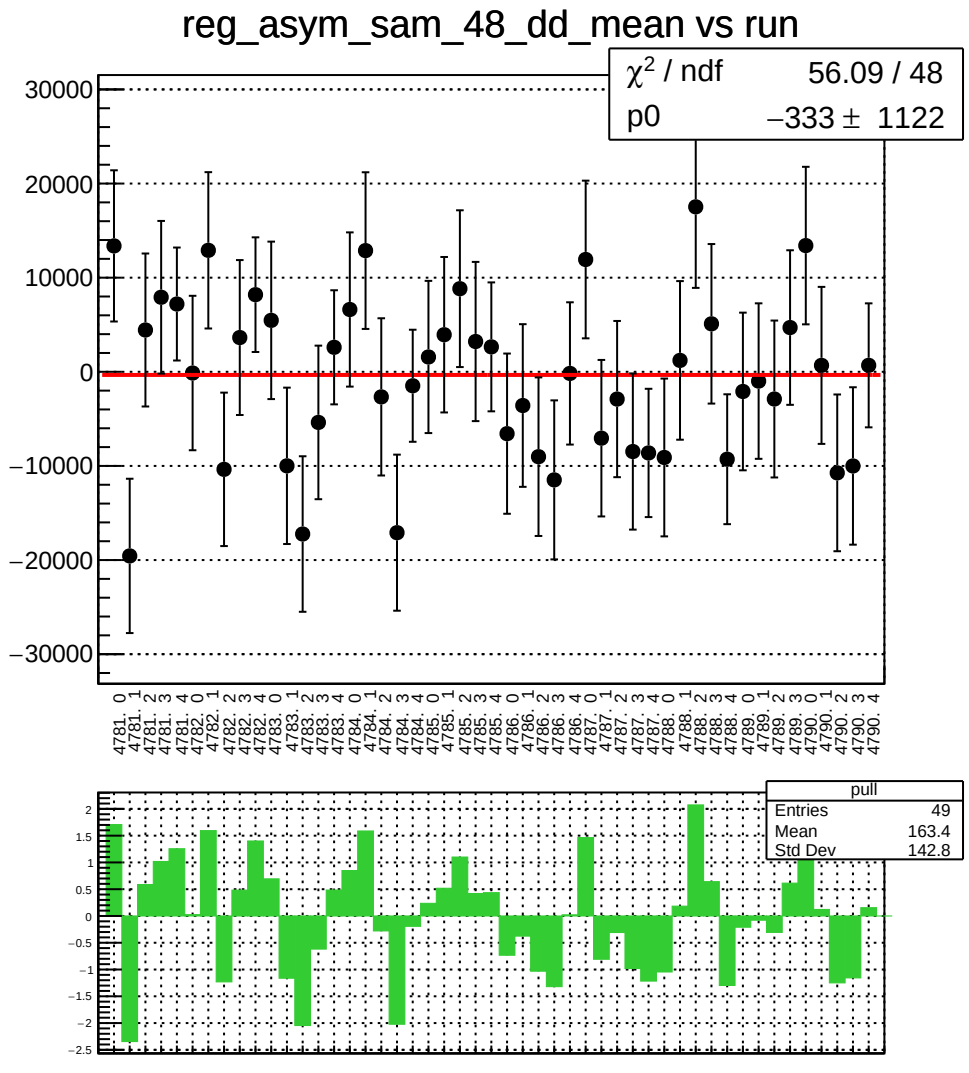

pull1D
Entries 49
Mean −0.01276
Std Dev 1.222
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

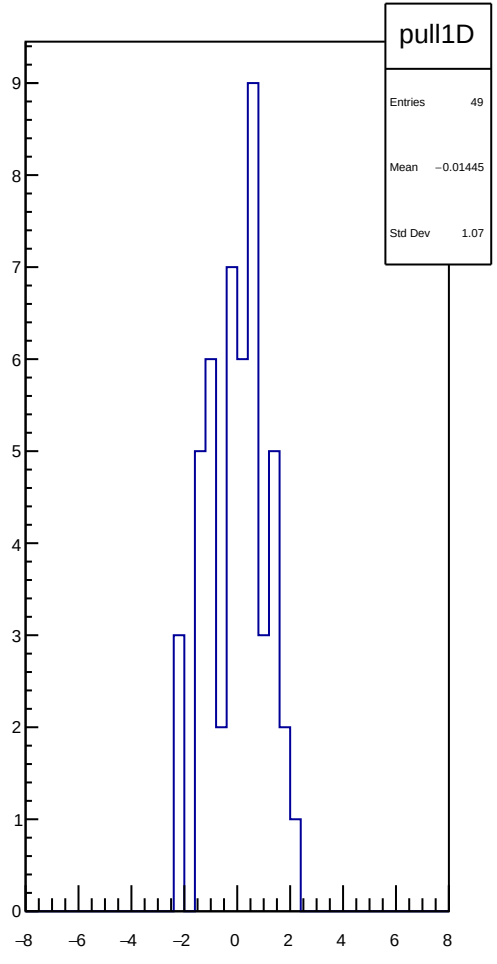

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1099 / 48
p0 420.5 ± 0.4236
480
470
460
450
440
430
420
410
400
390
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

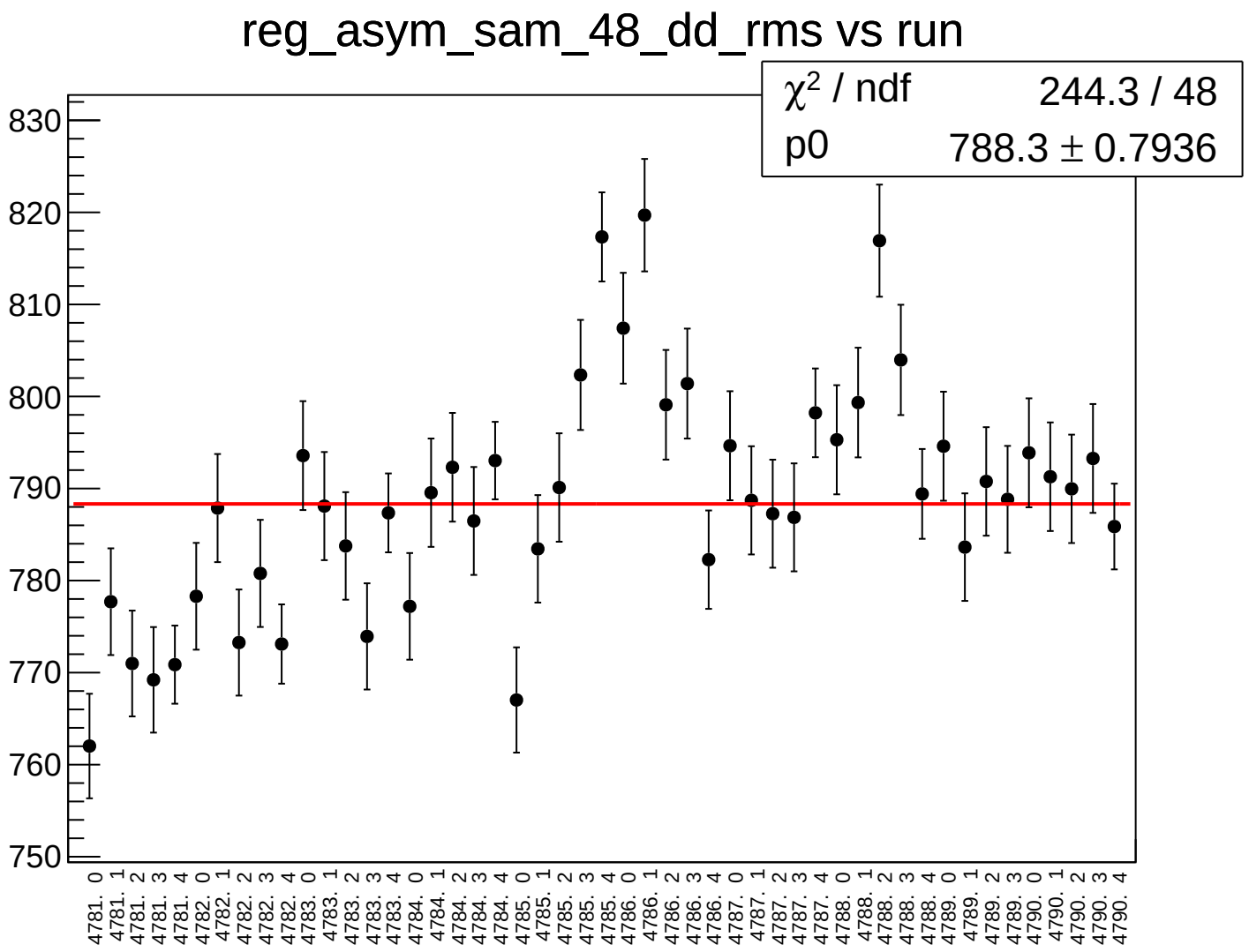

asym_sam_37_dd_correction_mean vs run
×10^3
χ² / ndf 31.93 / 48
p0 −3.231e+04 ± 7247
150
100
50
0
−50
−100
−150
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −729.9
Std Dev 755.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

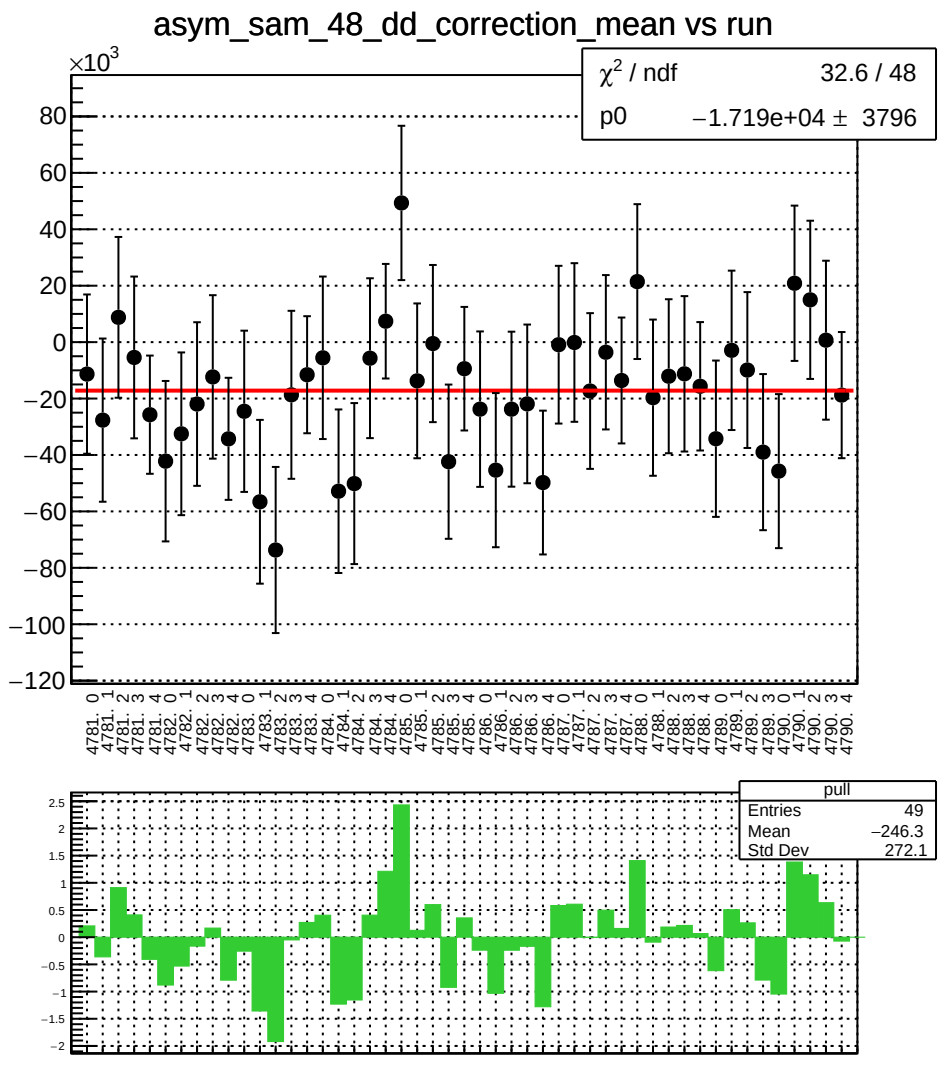

pull1D
Entries 49
Mean −0.003416
Std Dev 0.8073
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

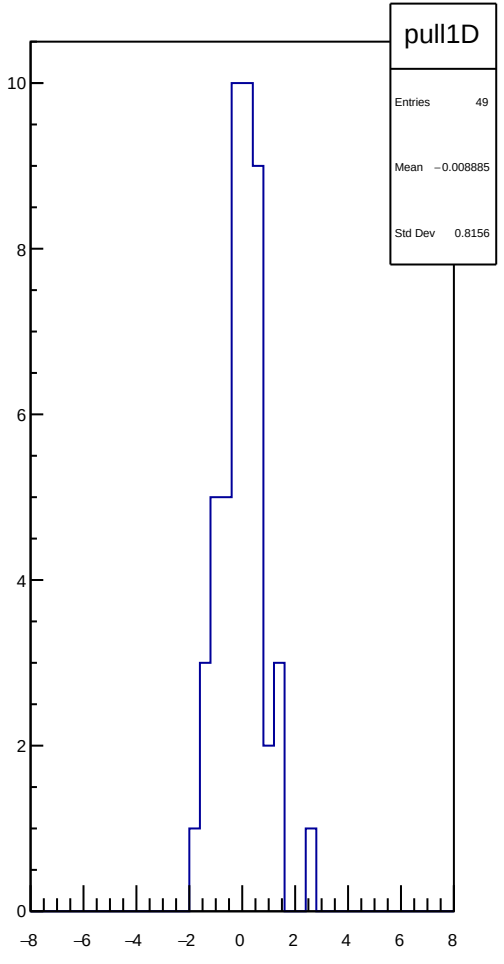

asym_sam_37_dd_correction_rms vs run
χ² / ndf 294.3 / 48
p0 5090 ± 5.124
5300
5200
5100
5000
4900
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4

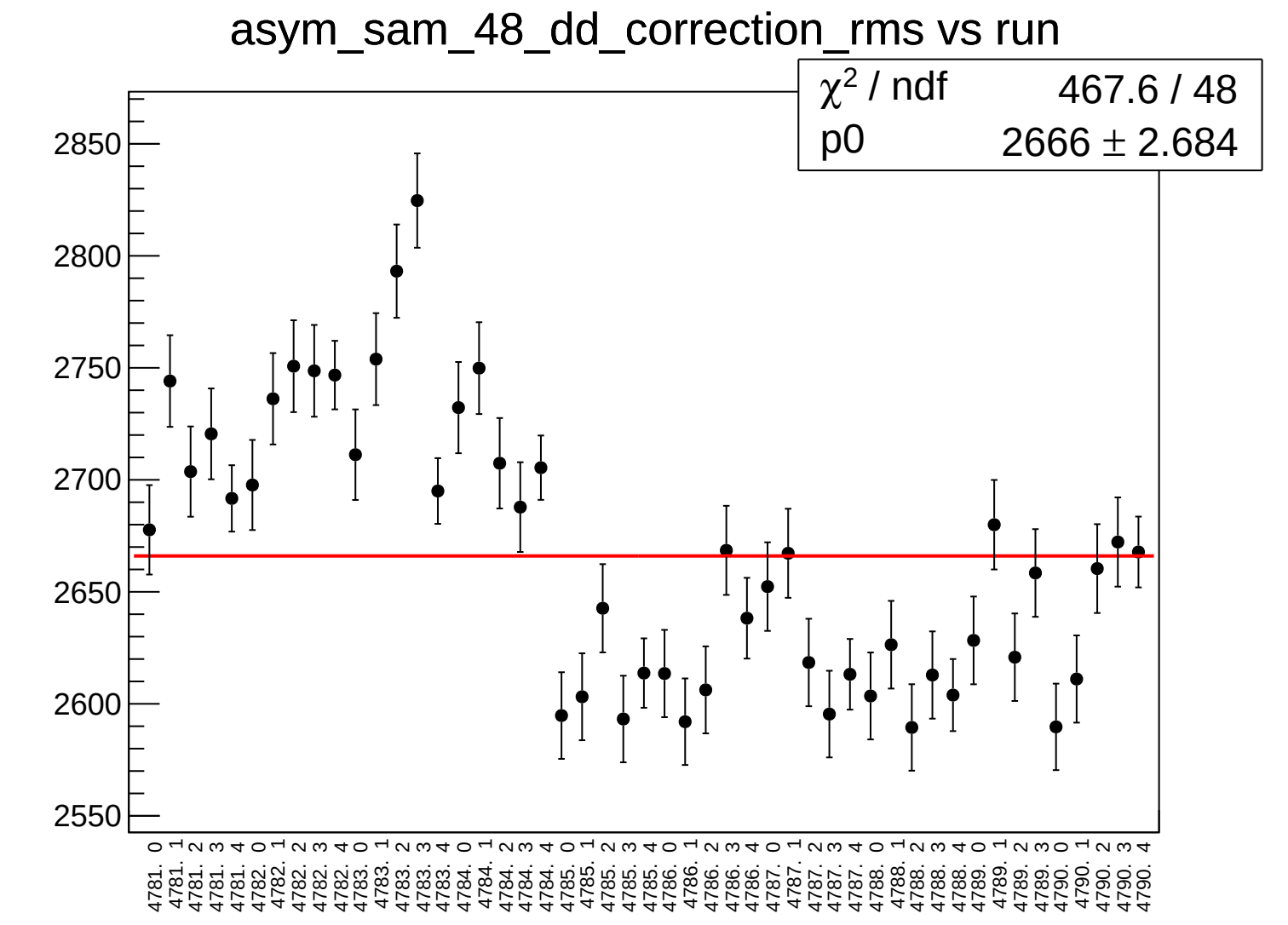

reg_asym_sam_48_dd_mean vs run
χ² / ndf 56.09 / 48
p0 −333 ± 1122
pull
Entries 49
Mean 163.4
Std Dev 142.8


pull1D
Entries 49
Mean −0.01445
Std Dev 1.07


reg_asym_sam_48_dd_rms vs run
χ² / ndf 244.3 / 48
p0 788.3 ± 0.7936
830
820
810
800
790
780
770
760
750
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4


asym_sam_48_dd_correction_mean vs run
×10^3
χ² / ndf 32.6 / 48
p0 −1.719e+04 ± 3796
pull
Entries 49
Mean −246.3
Std Dev 272.1


pull1D
Entries 49
Mean −0.008885
Std Dev 0.8156


asym_sam_48_dd_correction_rms vs run
χ^2 / ndf 467.6 / 48
p0 2666 ± 2.684
2850
2800
2750
2700
2650
2600
2550
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
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4789. 2
4789. 3
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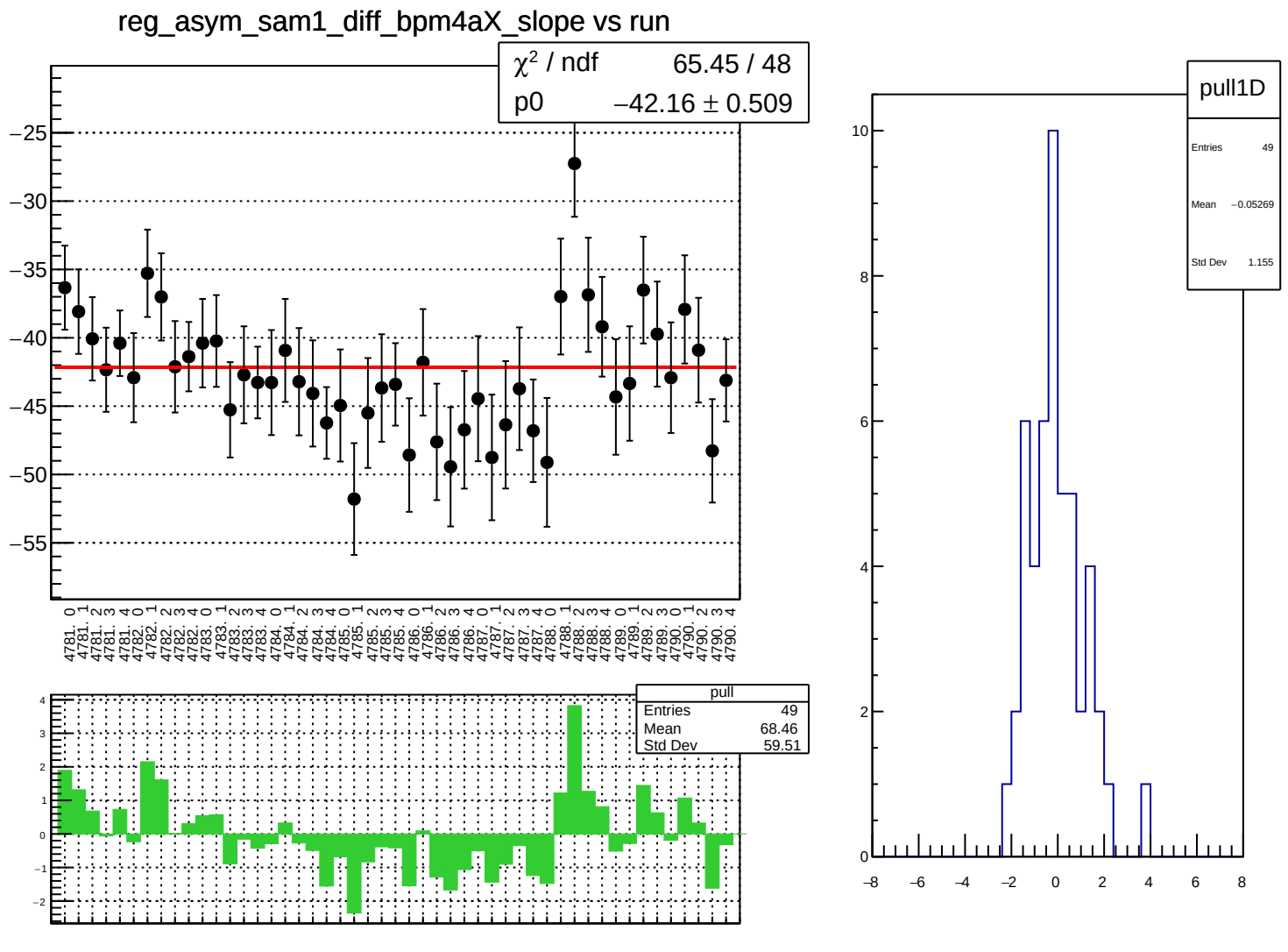
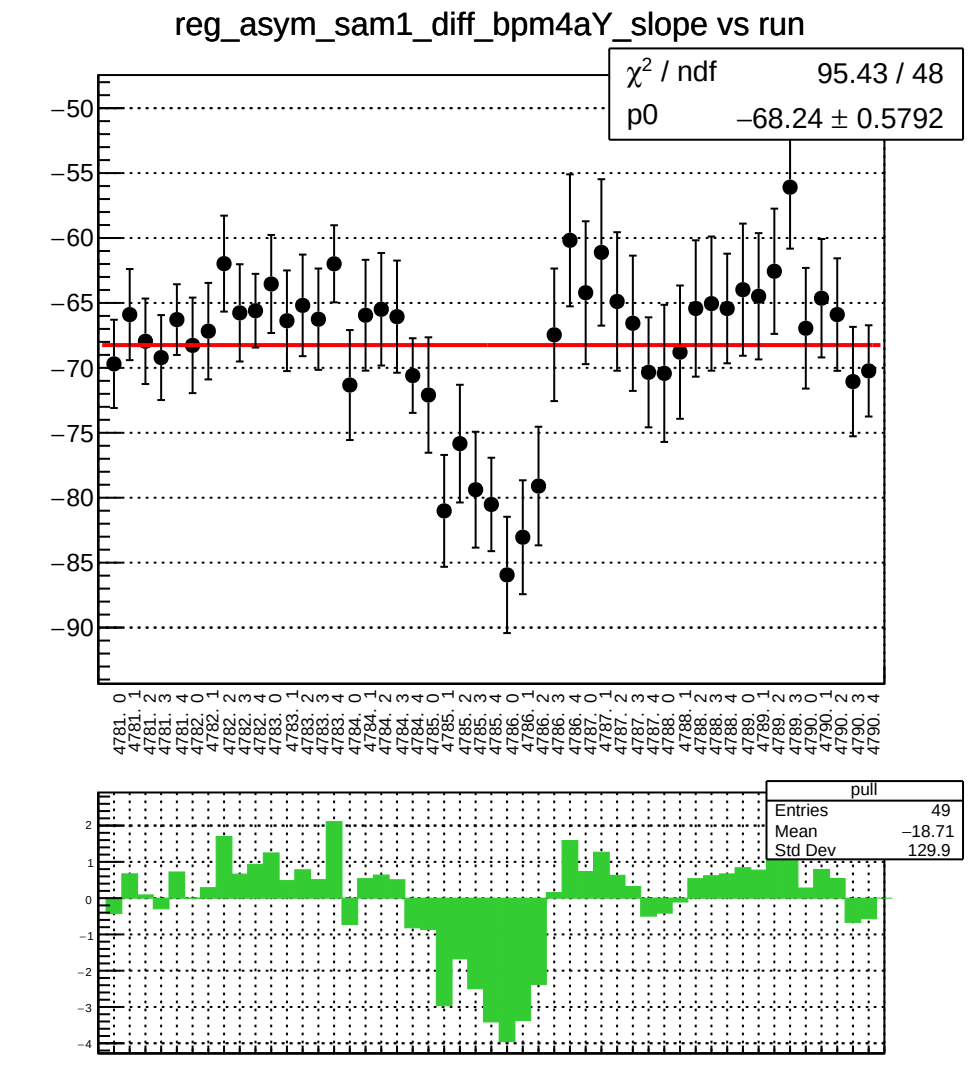
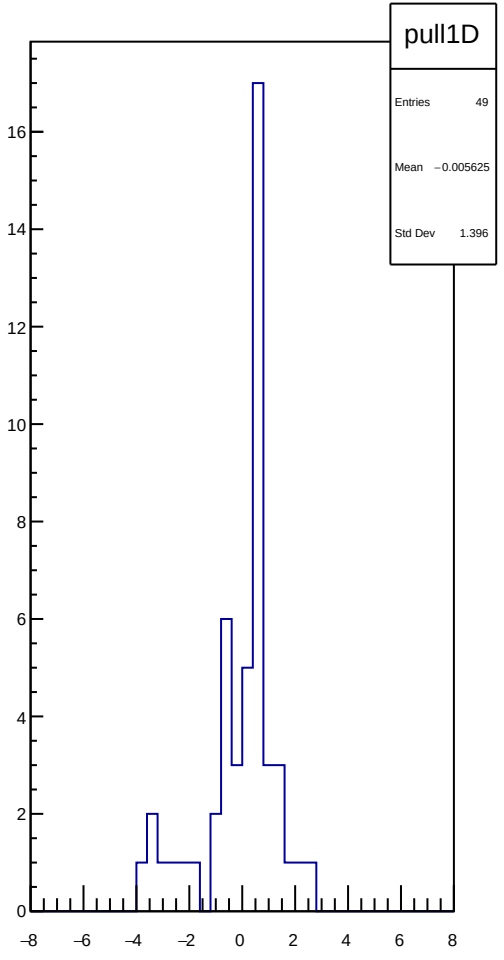
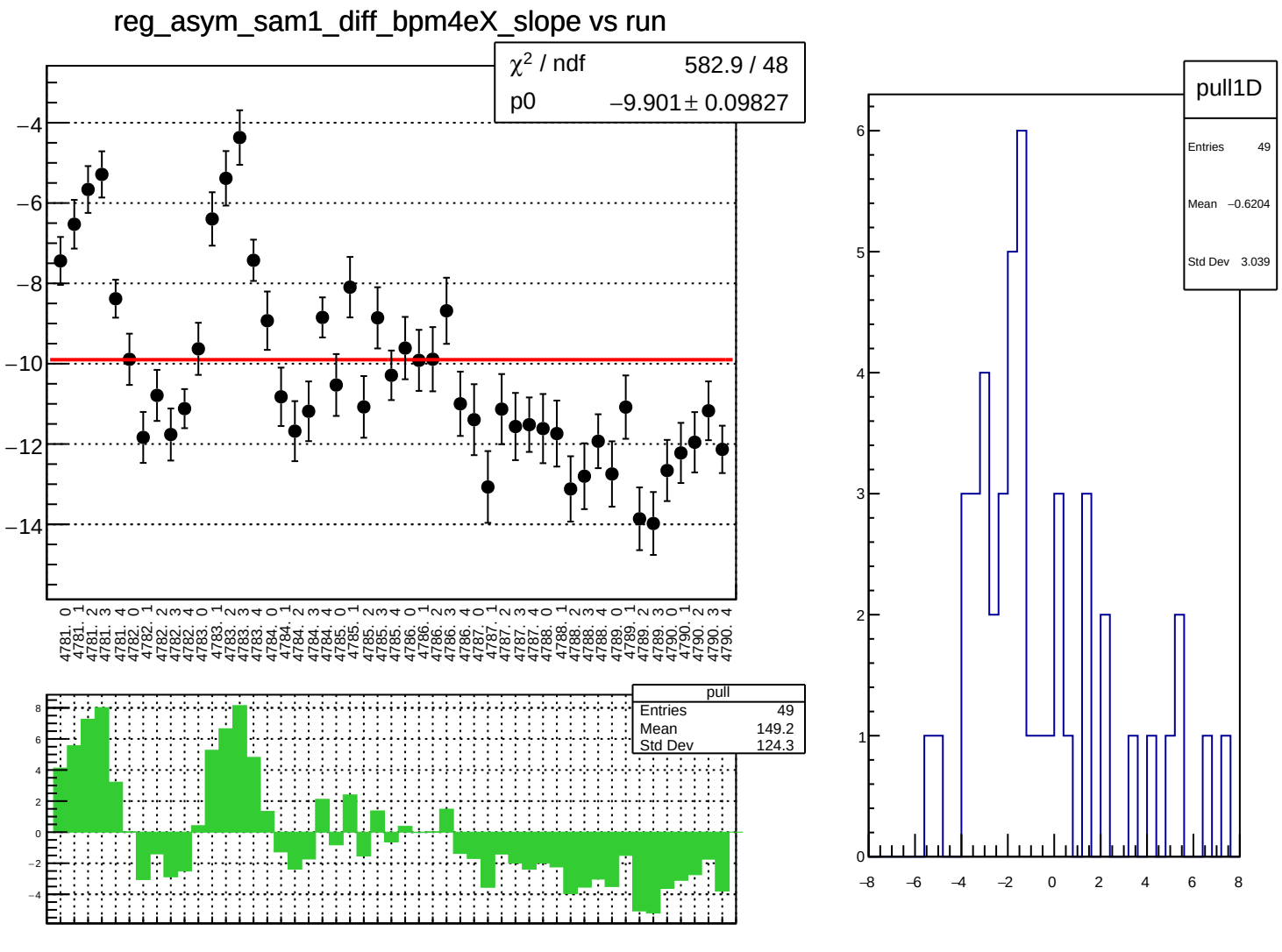
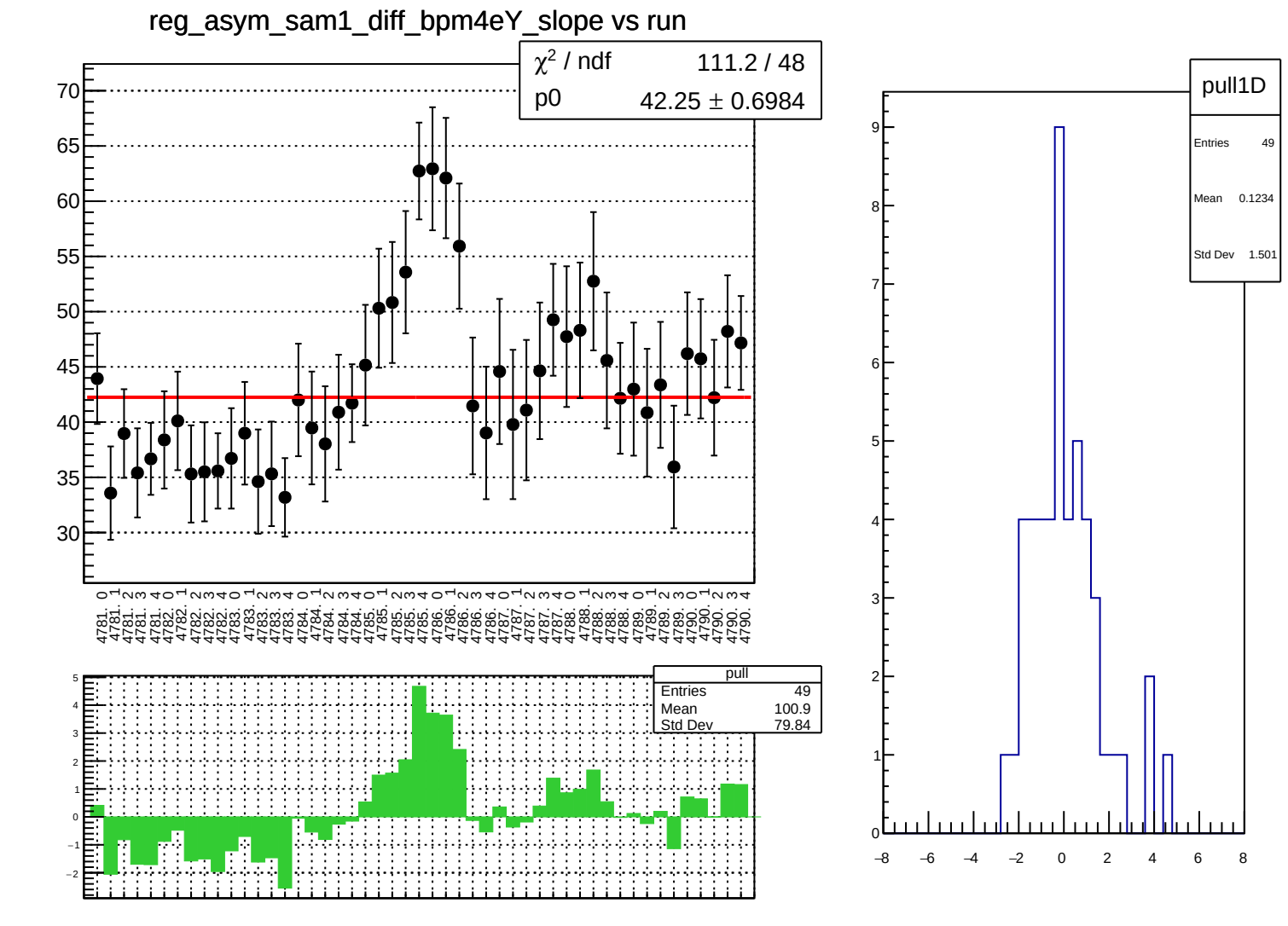
4790. 1
4790. 2
4790. 3
4790. 4

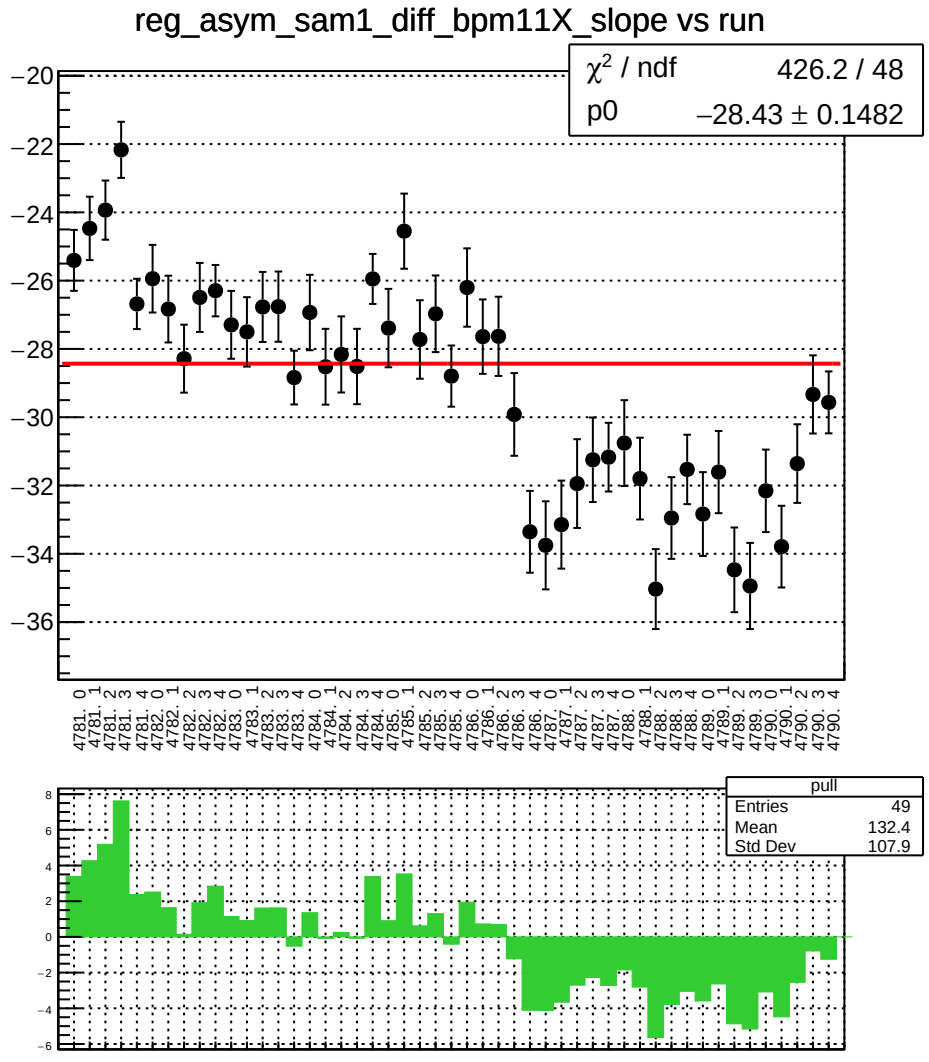

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 65.45 / 48
p0 −42.16 ± 0.509
−25
−30
−35
−40
−45
−50
−55
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 68.46
Std Dev 59.51
pull1D
Entries 49
Mean −0.05269
Std Dev 1.155

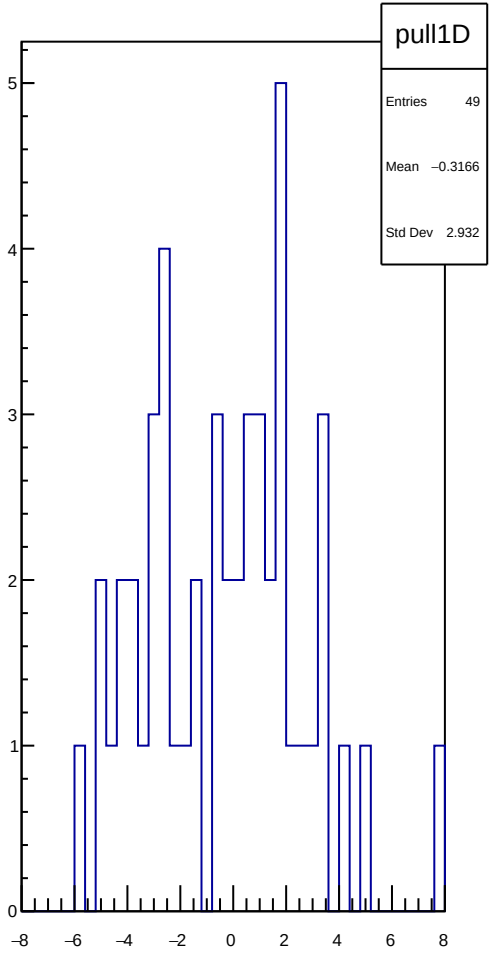

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 95.43 / 48
p0 −68.24 ± 0.5792
pull
Entries 49
Mean −18.71
Std Dev 129.9

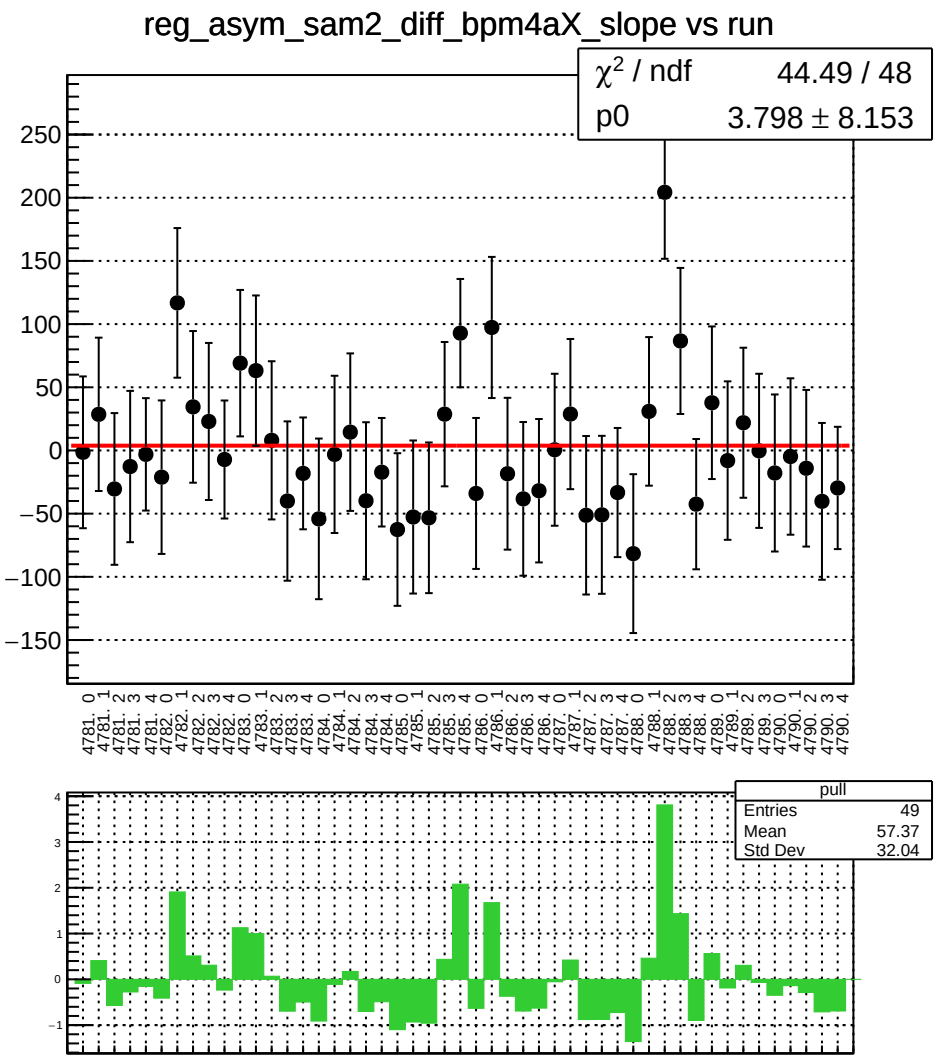

pull1D
Entries 49
Mean −0.005625
Std Dev 1.396

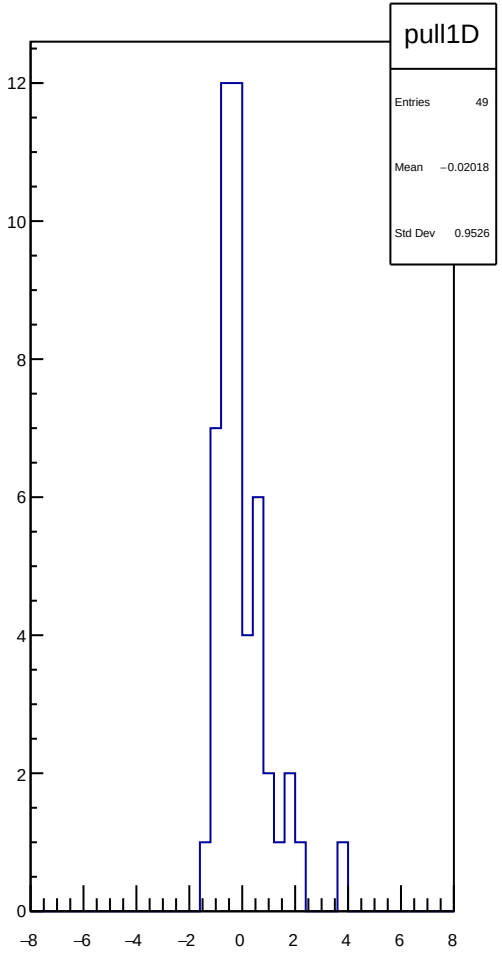

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 582.9 / 48
p0 −9.901 ± 0.09827
pull
Entries 49
Mean 149.2
Std Dev 124.3
pull1D
Entries 49
Mean −0.6204
Std Dev 3.039

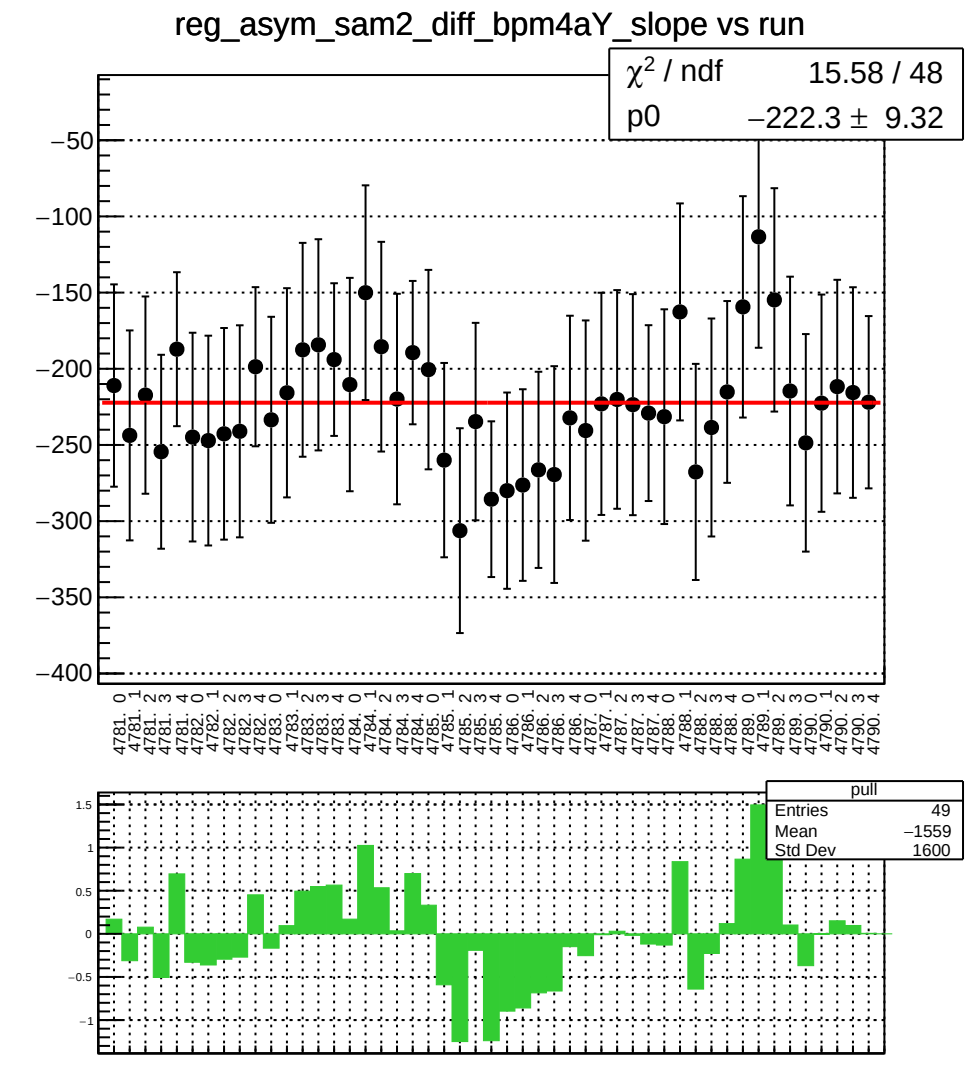

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 111.2 / 48
p0 42.25 ± 0.6984
pull
Entries 49
Mean 100.9
Std Dev 79.84
pull1D
Entries 49
Mean 0.1234
Std Dev 1.501

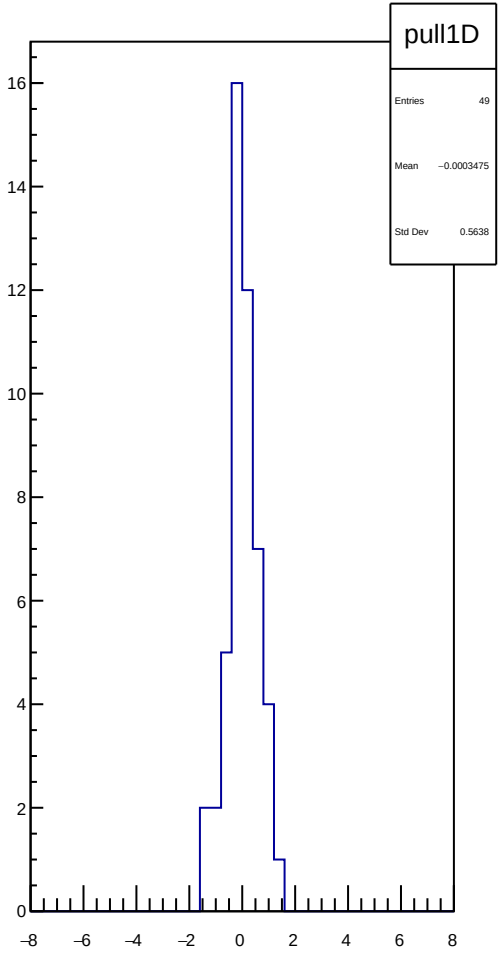

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 426.2 / 48
p0 −28.43 ± 0.1482
pull
Entries 49
Mean 132.4
Std Dev 107.9

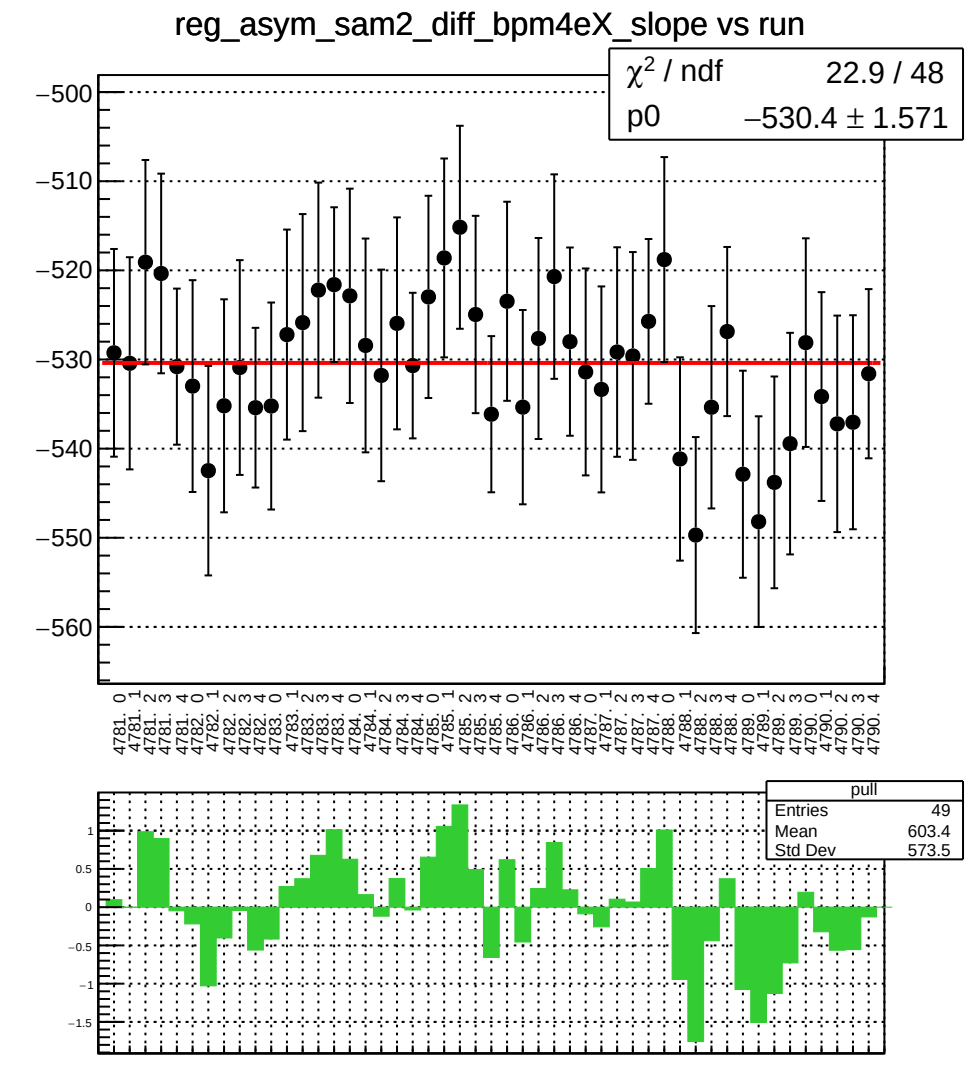

pull1D
Entries 49
Mean −0.3166
Std Dev 2.932

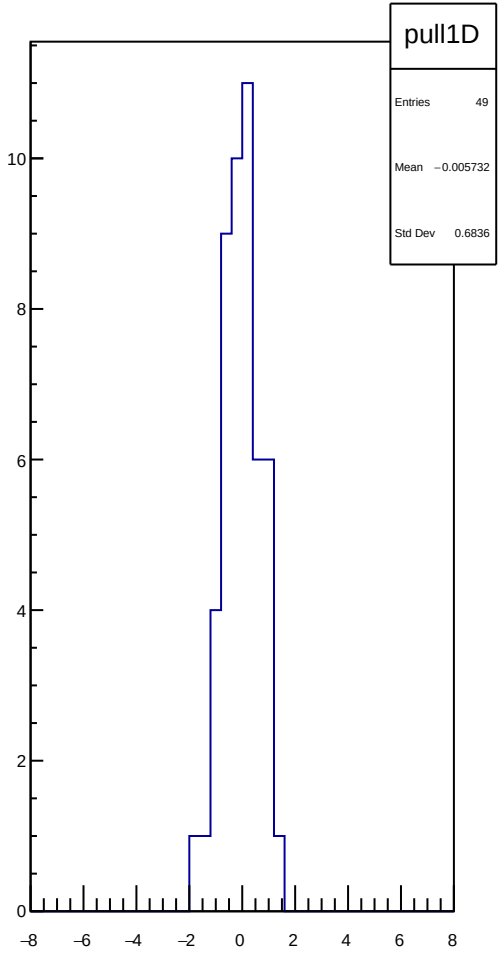

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 44.49 / 48
p0 3.798 ± 8.153
pull
Entries 49
Mean 57.37
Std Dev 32.04

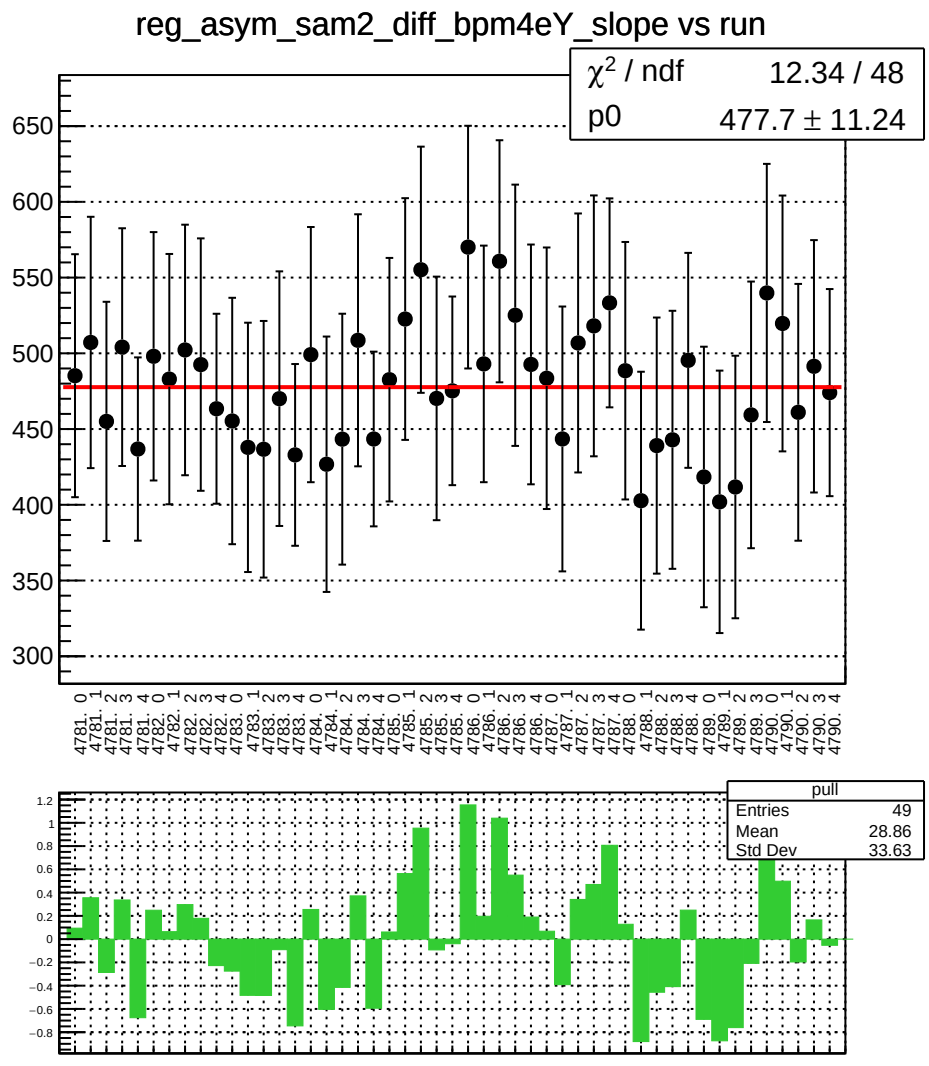

pull1D
Entries 49
Mean −0.02018
Std Dev 0.9526

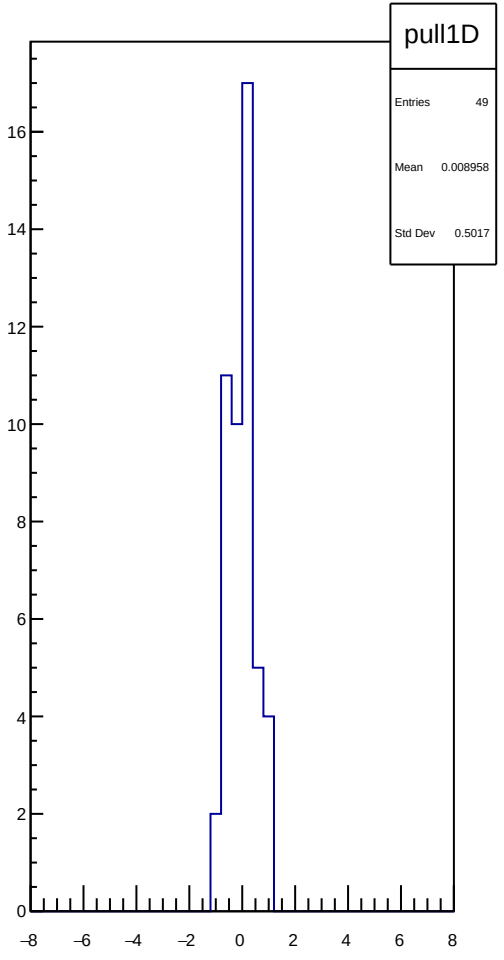

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 15.58 / 48
p0 −222.3 ± 9.32
pull
Entries 49
Mean −1559
Std Dev 1600

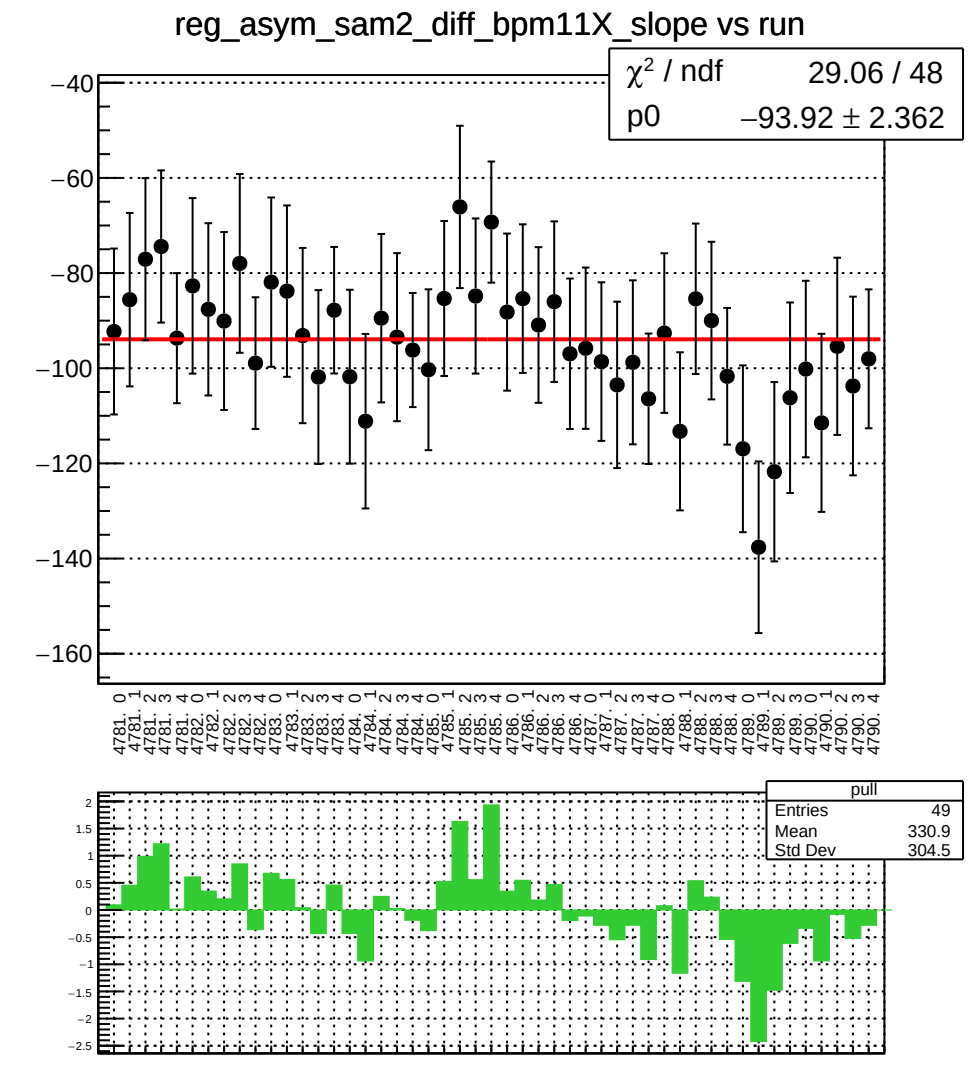

pull1D
Entries 49
Mean −0.0003475
Std Dev 0.5638

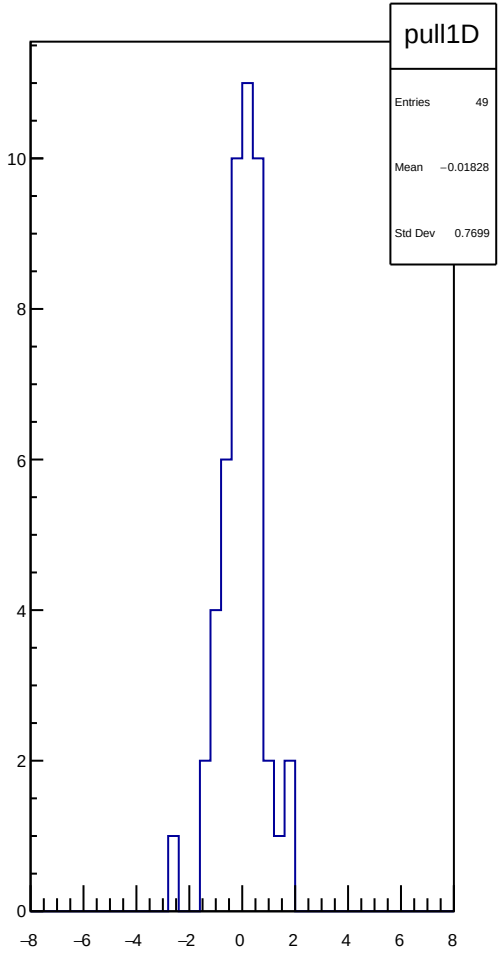

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 22.9 / 48
p0 −530.4 ± 1.571
pull
Entries 49
Mean 603.4
Std Dev 573.5

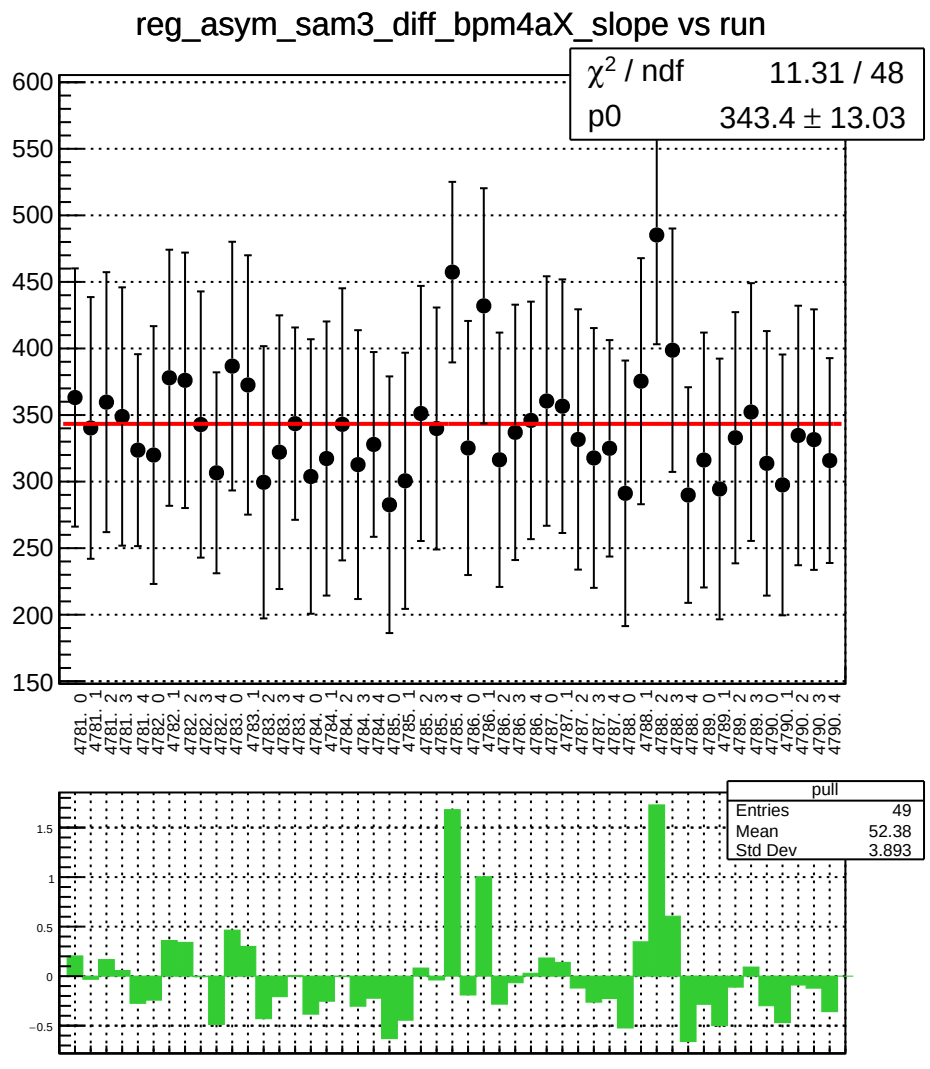

pull1D
Entries 49
Mean −0.005732
Std Dev 0.6836

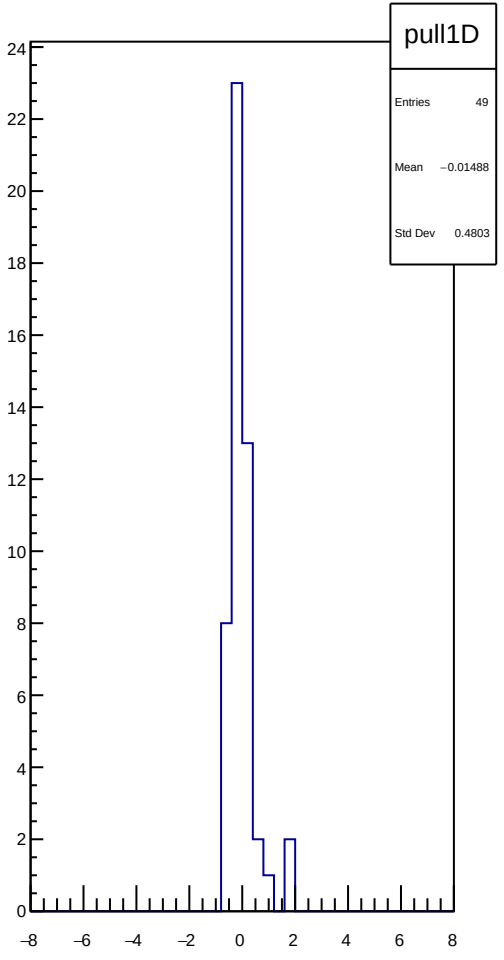

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 12.34 / 48
p0 477.7 ± 11.24
650
600
550
500
450
400
350
300
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 28.86
Std Dev 33.63
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

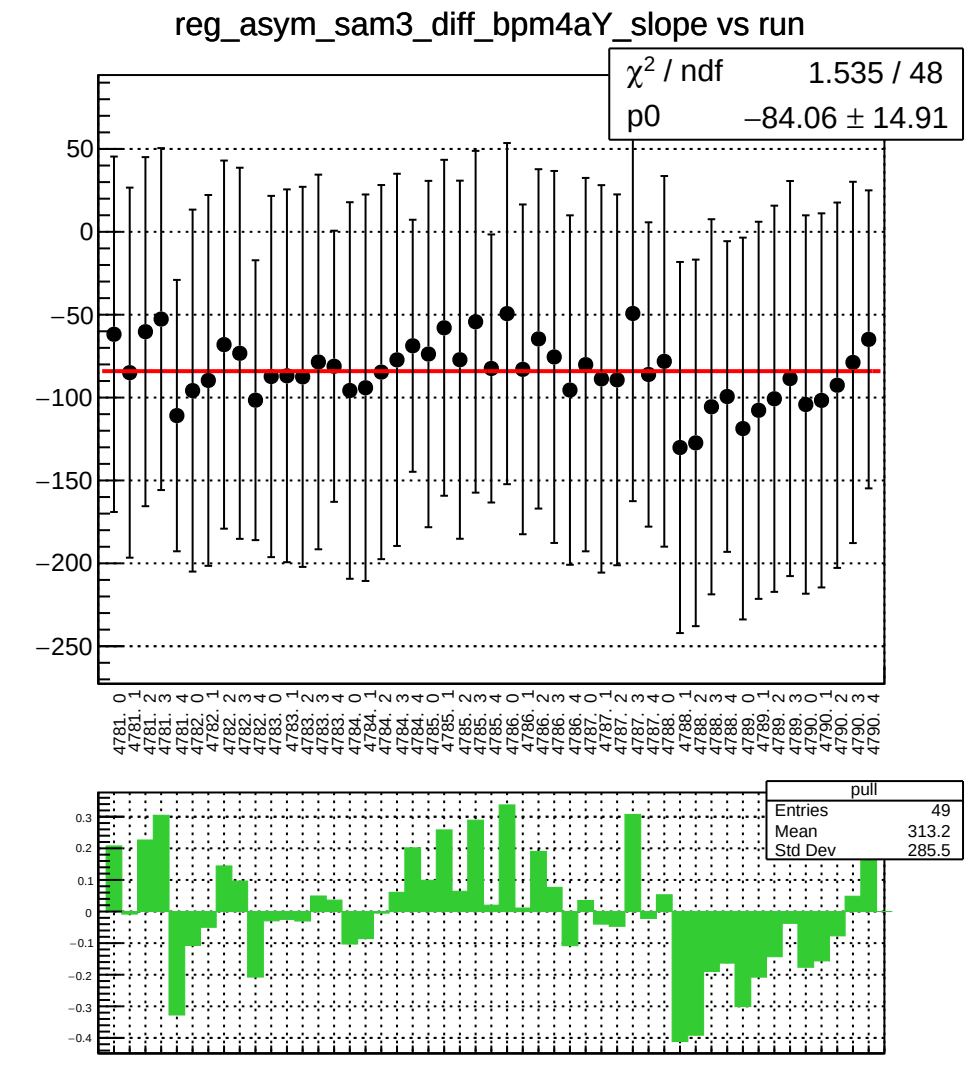

pull1D
Entries 49
Mean 0.008958
Std Dev 0.5017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

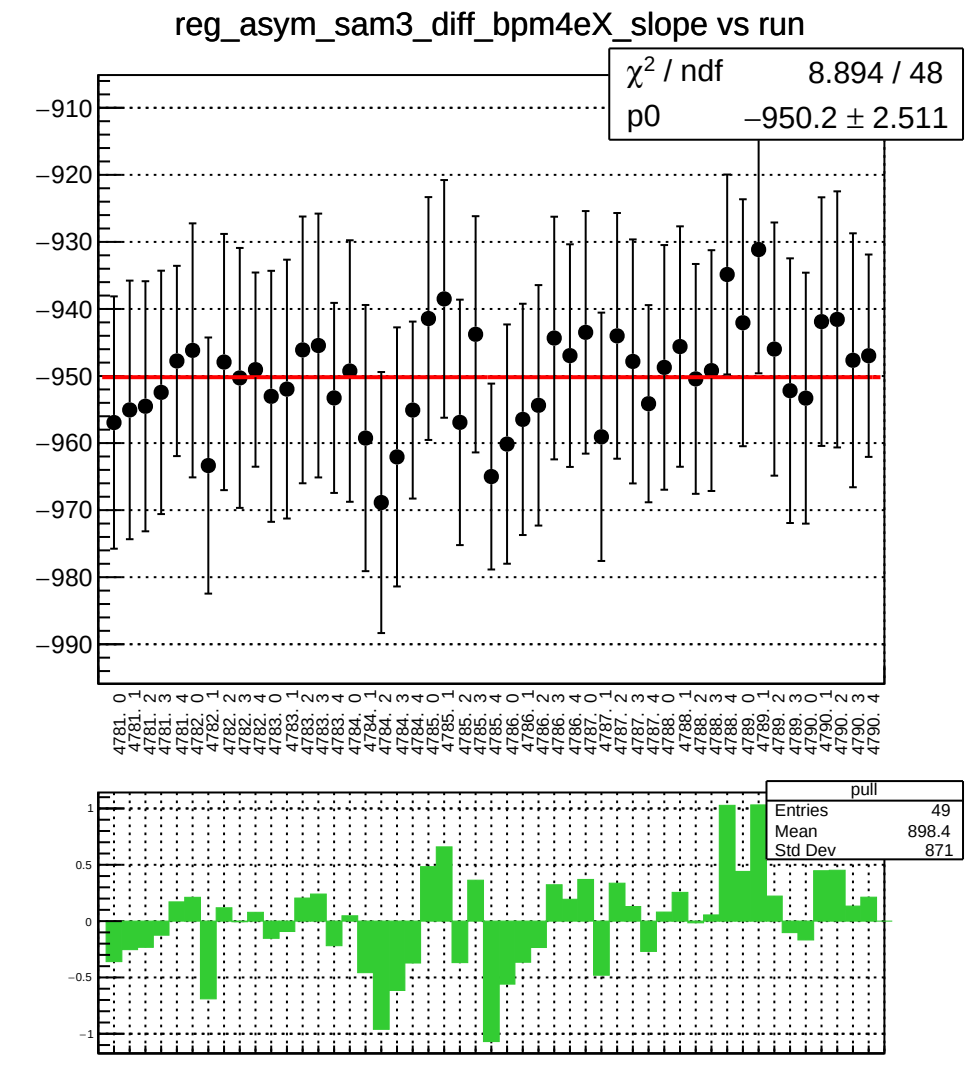

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 29.06 / 48
p0 −93.92 ± 2.362
pull
Entries 49
Mean 330.9
Std Dev 304.5

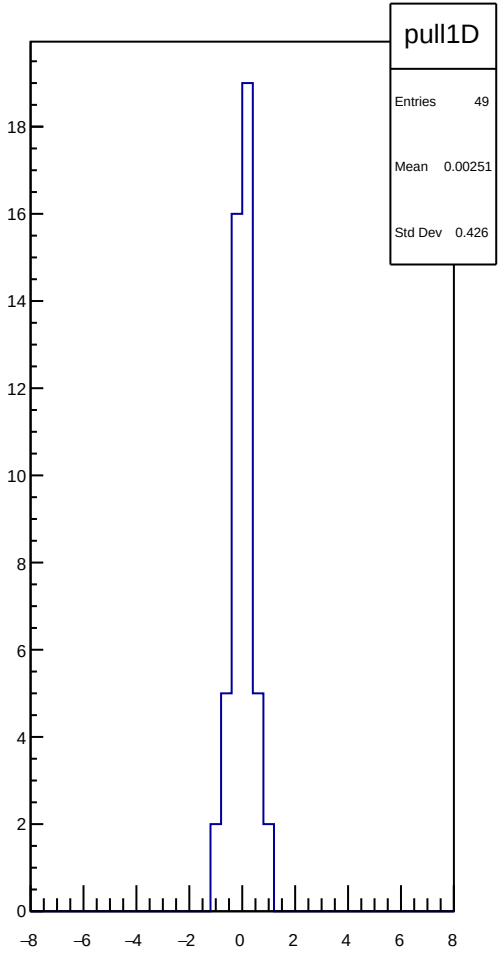

pull1D
Entries 49
Mean −0.01828
Std Dev 0.7699

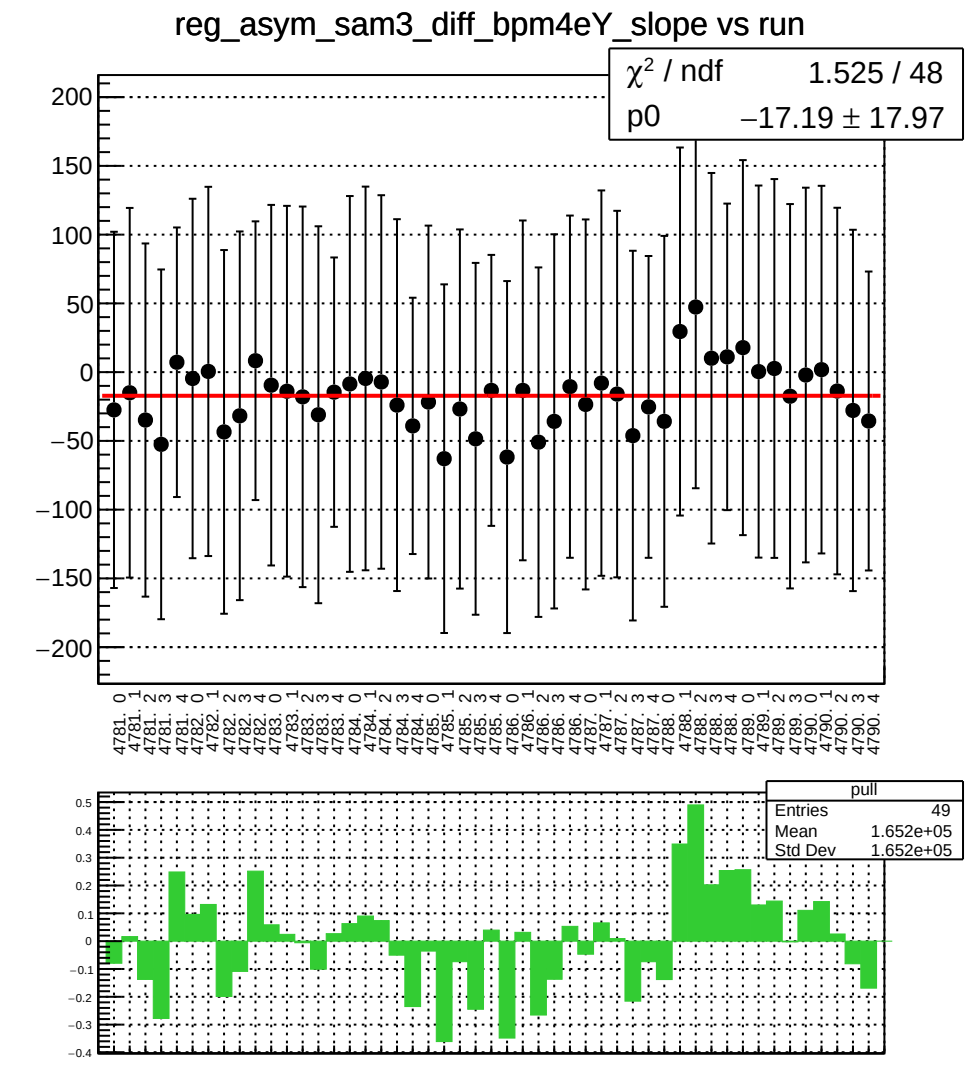

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 11.31 / 48
p0 343.4 ± 13.03
pull
Entries 49
Mean 52.38
Std Dev 3.893

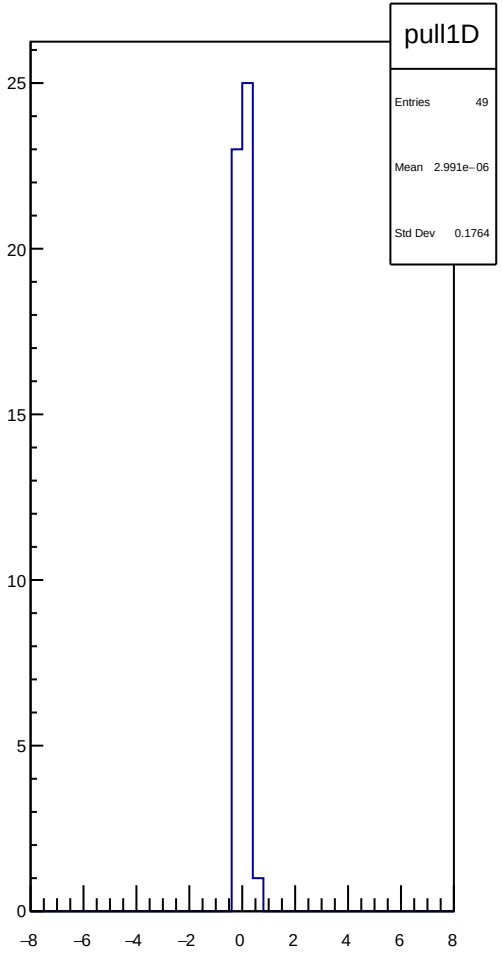

pull1D
Entries 49
Mean −0.01488
Std Dev 0.4803

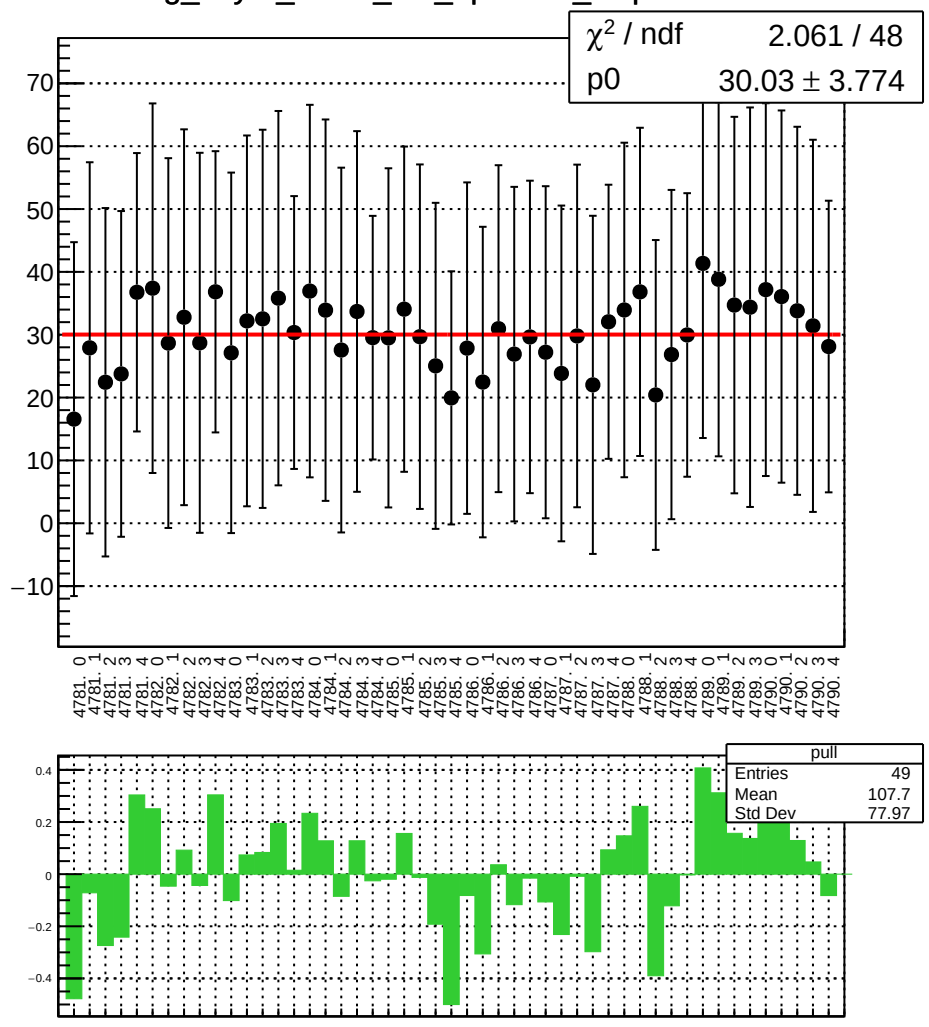

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 1.535 / 48
p0 −84.06 ± 14.91
50
0
−50
−100
−150
−200
−250
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 313.2
Std Dev 285.5
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 49
Mean −0.002427
Std Dev 0.177
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

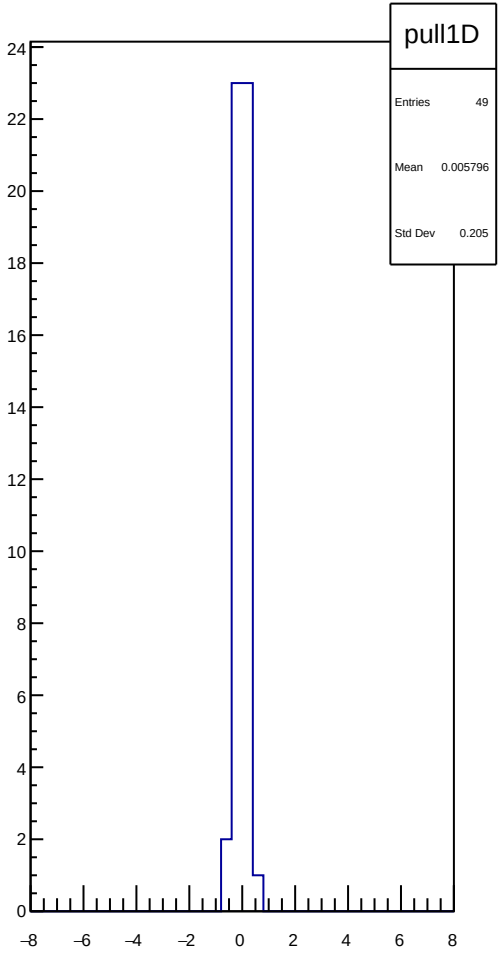

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 8.894 / 48
p0 −950.2 ± 2.511
−910
−920
−930
−940
−950
−960
−970
−980
−990
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 898.4
Std Dev 871
1
0.5
0
−0.5
−1

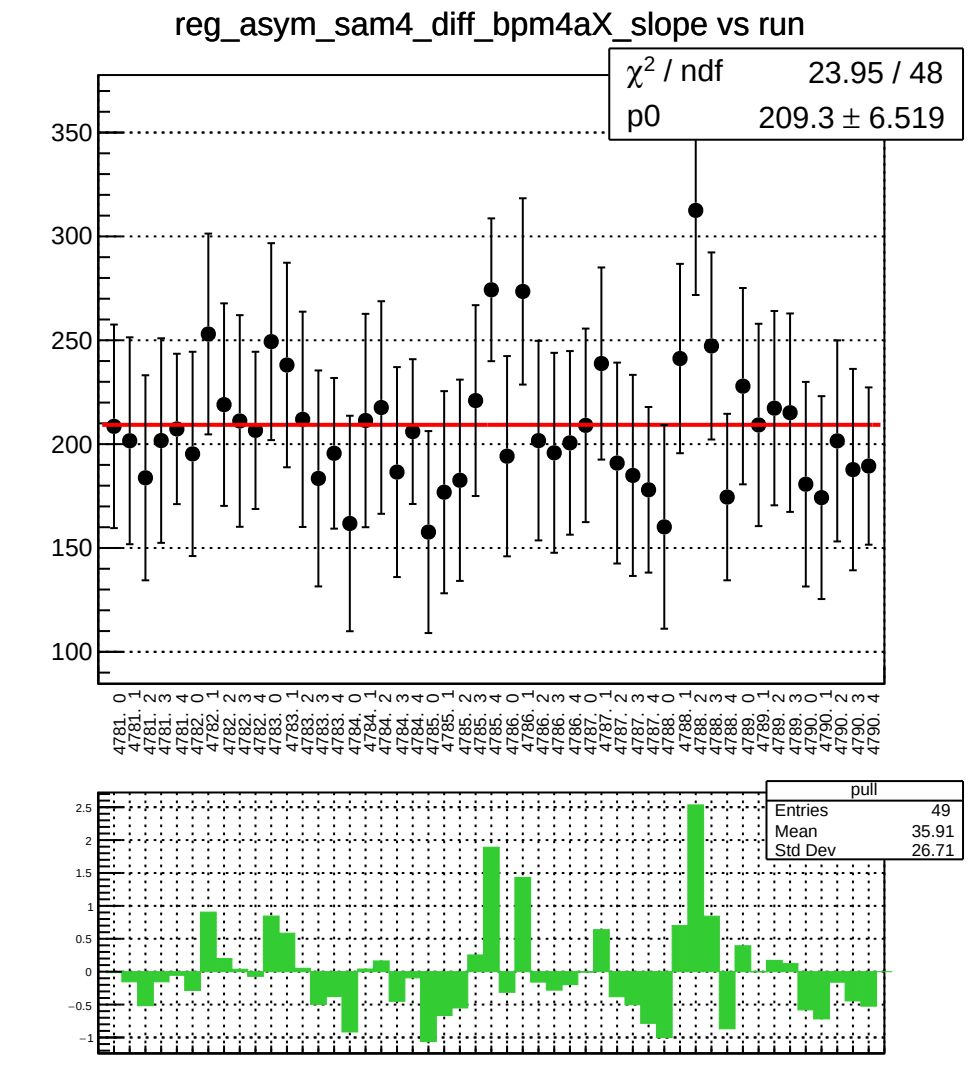

pull1D
Entries 49
Mean 0.00251
Std Dev 0.426
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

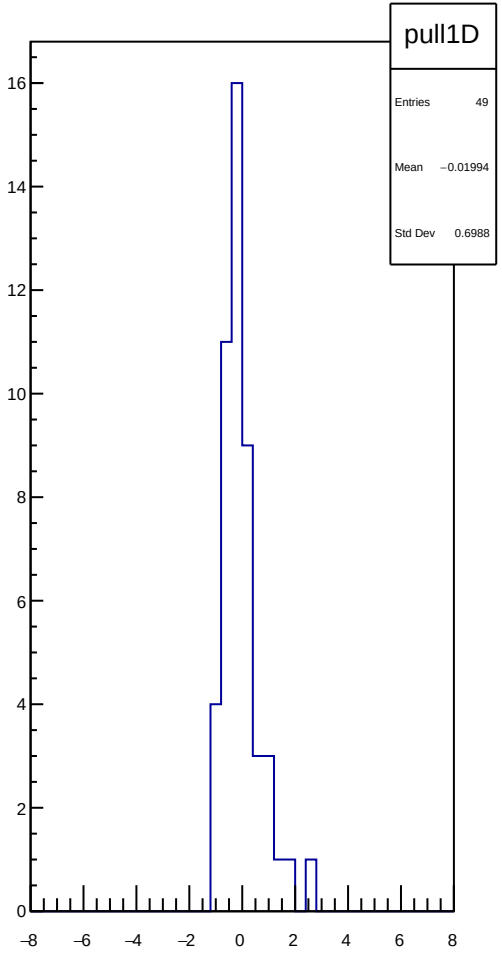

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 1.525 / 48
p0 −17.19 ± 17.97
pull
Entries 49
Mean 1.652e+05
Std Dev 1.652e+05

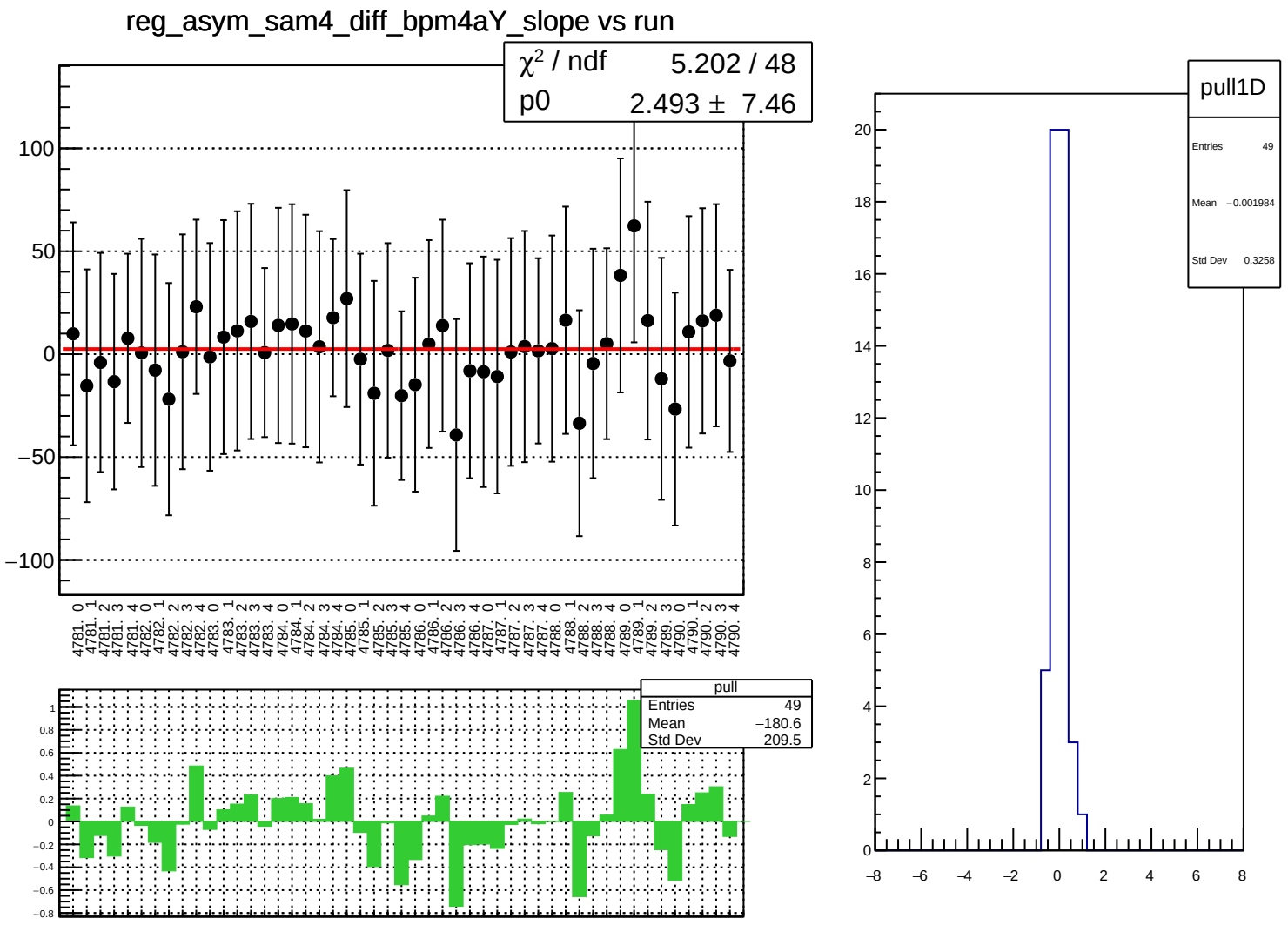

pull1D
Entries 49
Mean 2.991e−06
Std Dev 0.1764

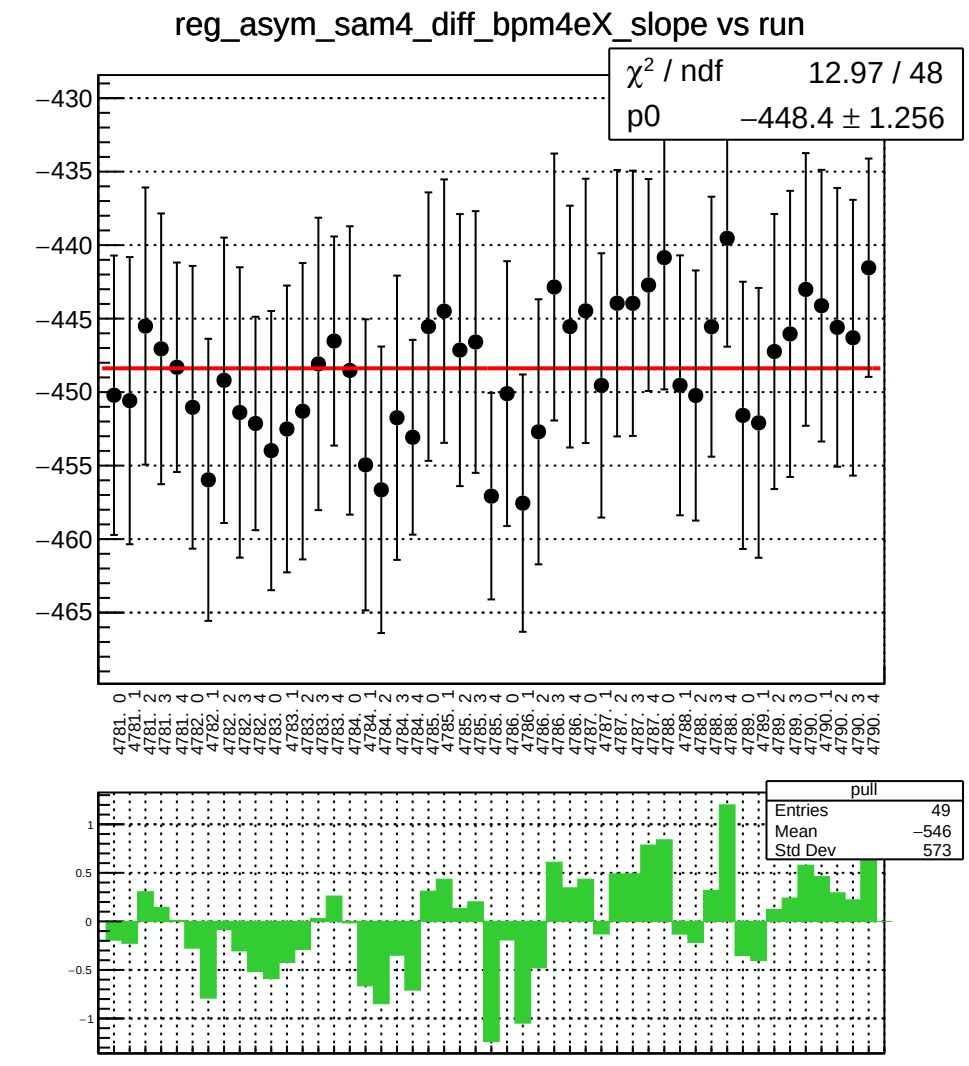

reg_asym_sam3_diff_bpm11X_slope vs run
χ^2 / ndf 2.061 / 48
p0 30.03 ± 3.774
pull
Entries 49
Mean 107.7
Std Dev 77.97

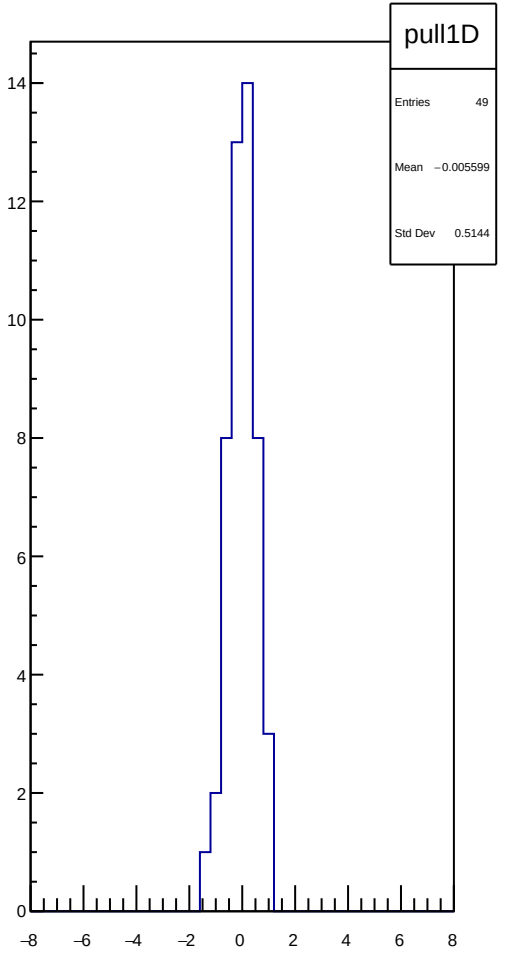

pull1D
Entries 49
Mean 0.005796
Std Dev 0.205

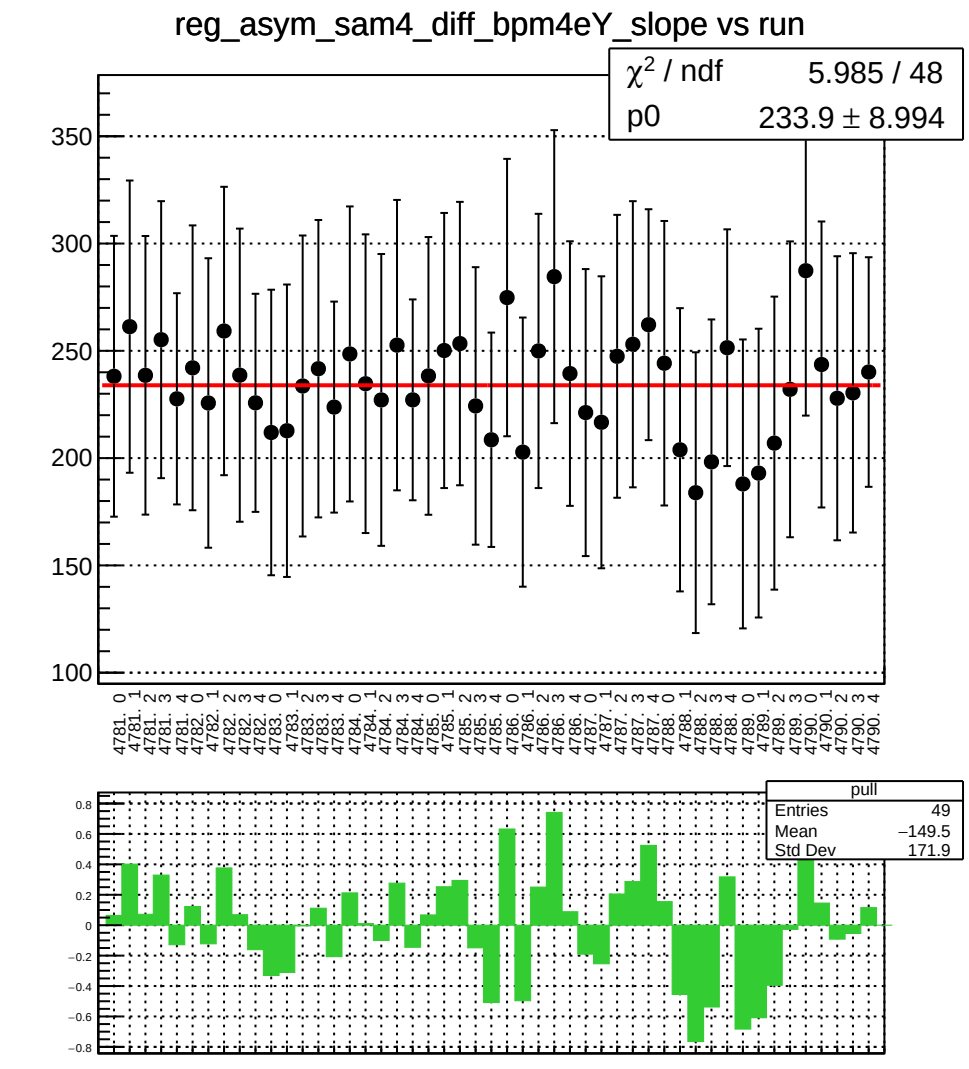

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 23.95 / 48
p0 209.3 ± 6.519
350
300
250
200
150
100
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 35.91
Std Dev 26.71
2.5
2
1.5
1
0.5
0
−0.5
−1

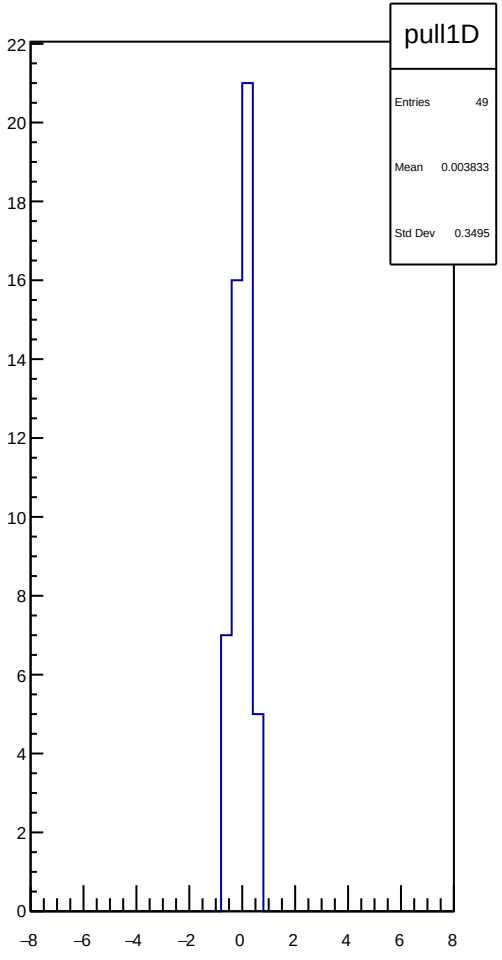

pull1D
Entries 49
Mean −0.01994
Std Dev 0.6988
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

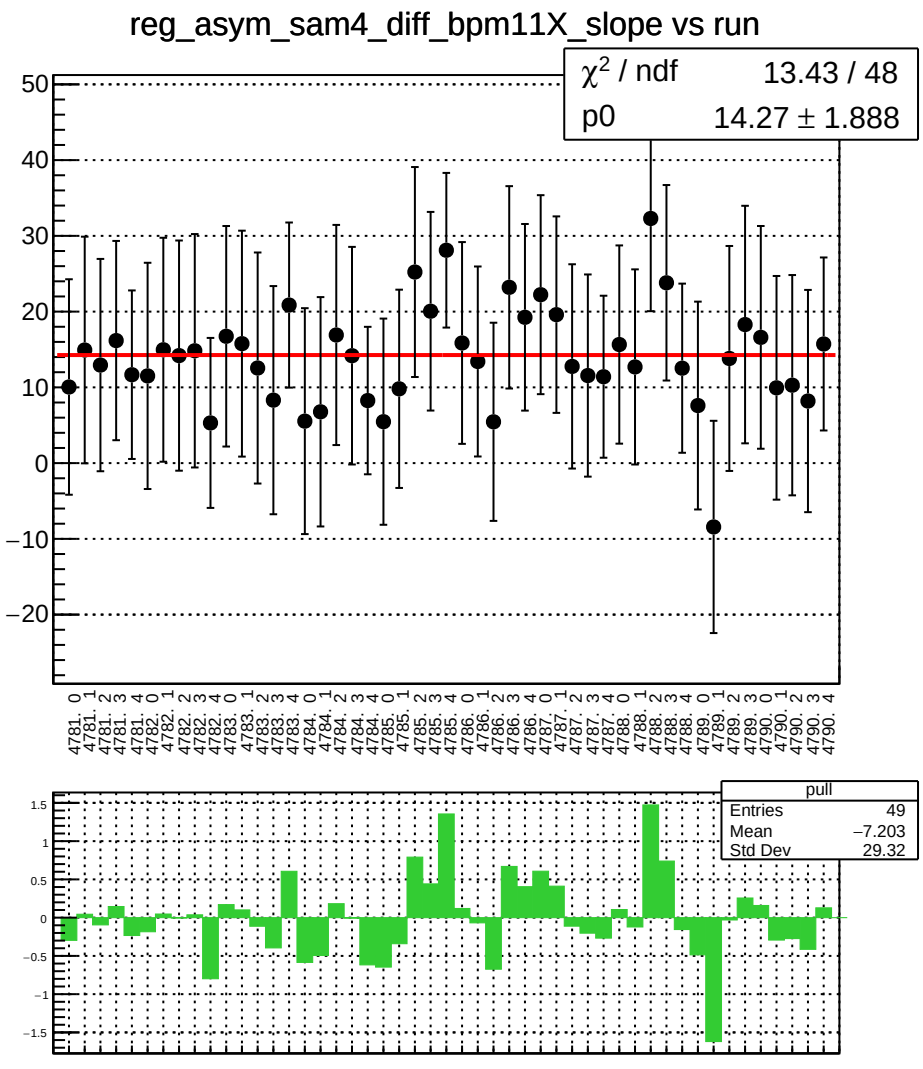

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 5.202 / 48
p0 2.493 ± 7.46
100
50
0
−50
−100
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −180.6
Std Dev 209.5
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 49
Mean −0.001984
Std Dev 0.3258
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

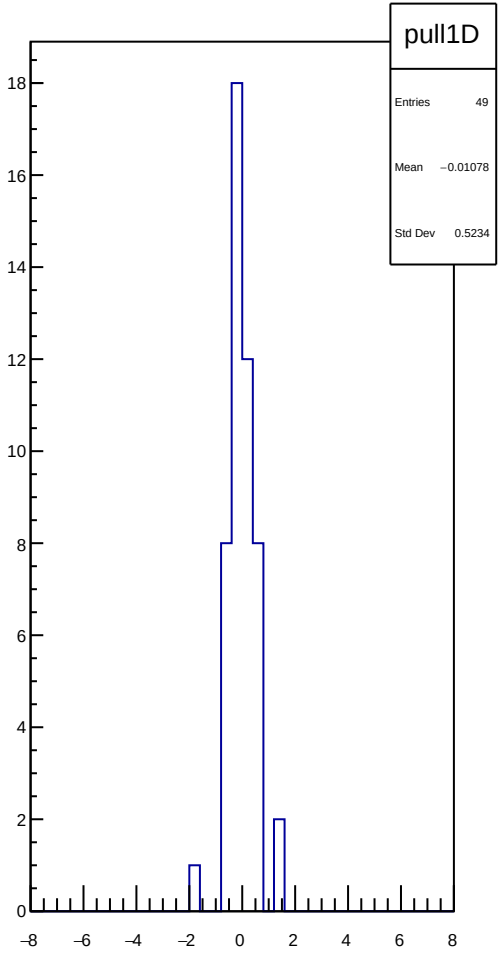

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 12.97 / 48
p0 −448.4 ± 1.256
−430
−435
−440
−445
−450
−455
−460
−465
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −546
Std Dev 573
1
0.5
0
−0.5
−1

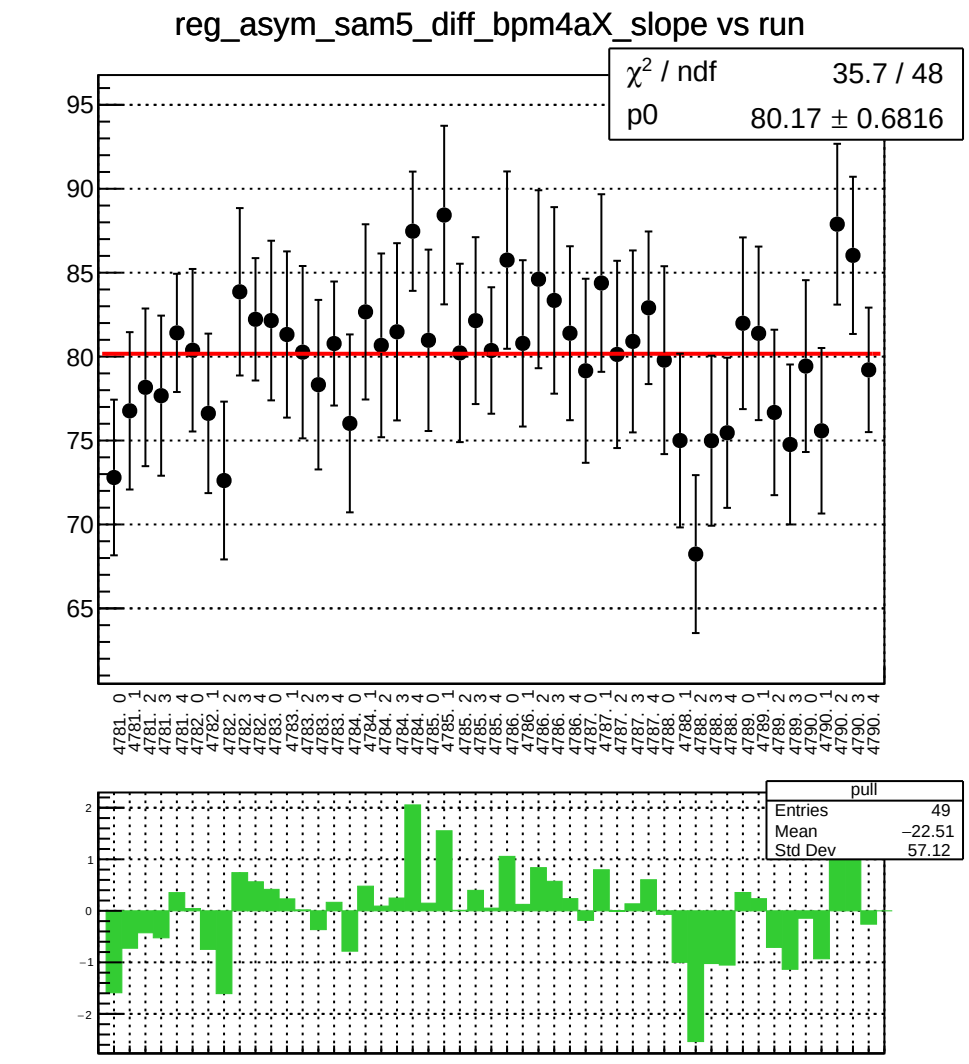

pull1D
Entries 49
Mean −0.005599
Std Dev 0.5144
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

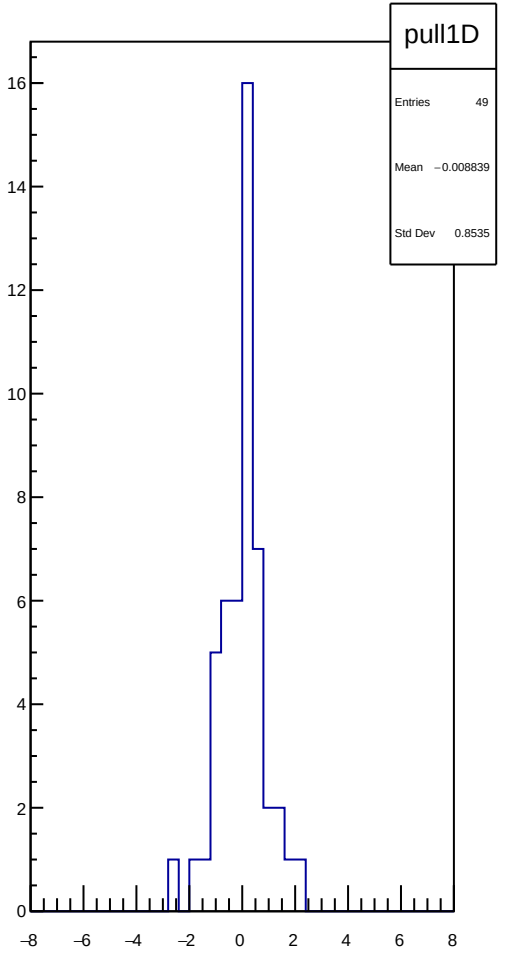

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 5.985 / 48
p0 233.9 ± 8.994
pull
Entries 49
Mean −149.5
Std Dev 171.9

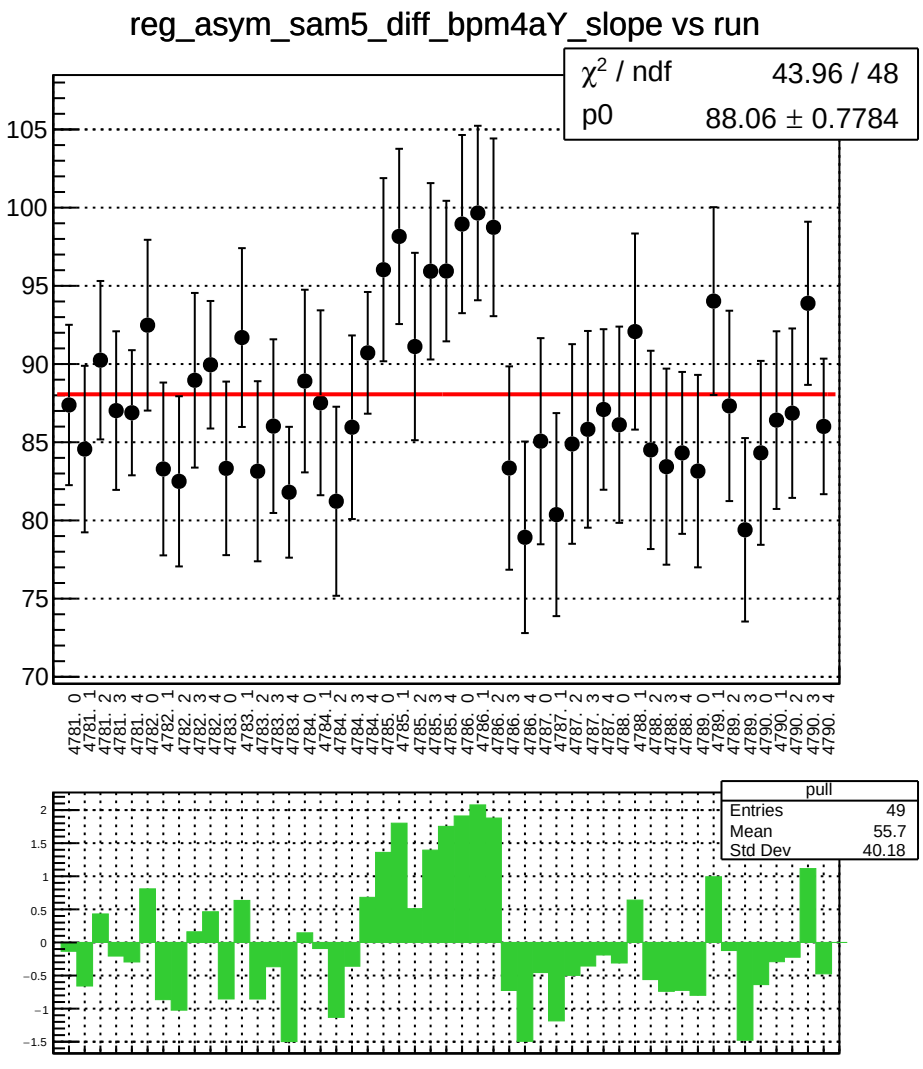

pull1D
Entries 49
Mean 0.003833
Std Dev 0.3495

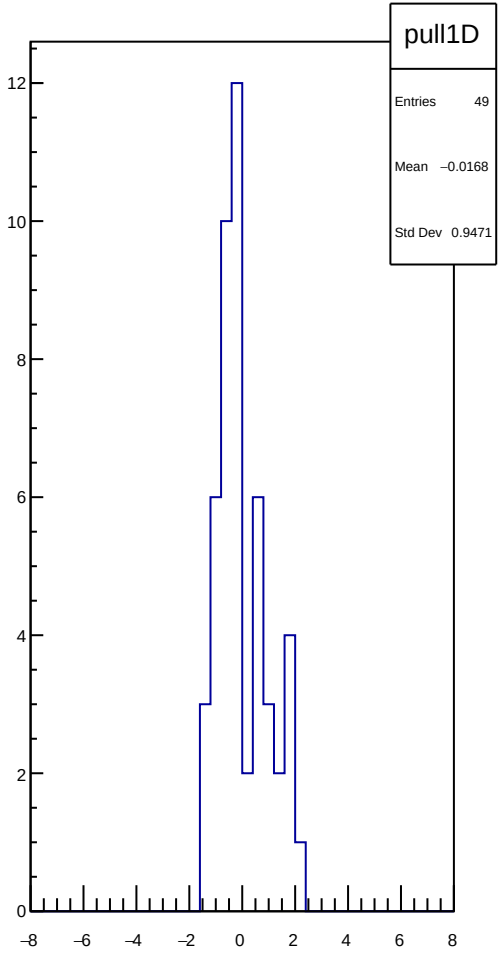

reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 13.43 / 48
p0 14.27 ± 1.888
pull
Entries 49
Mean −7.203
Std Dev 29.32

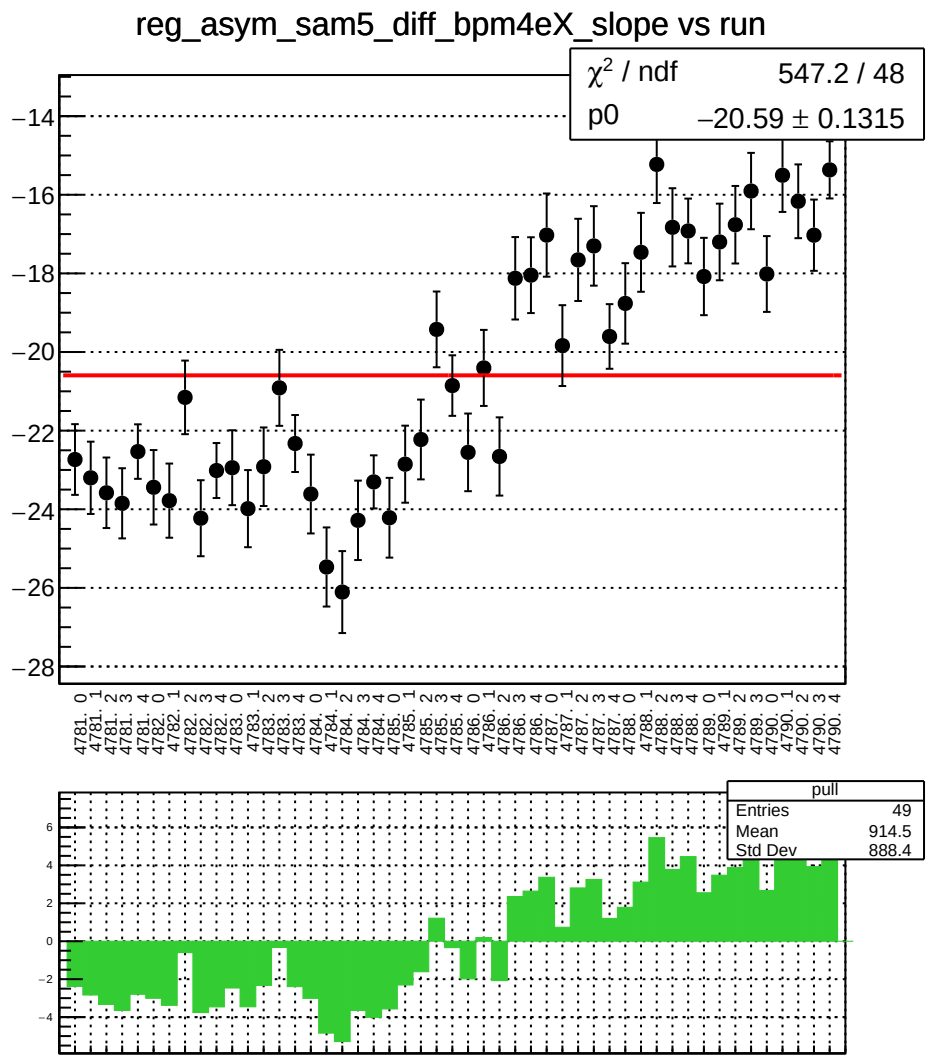

pull1D
Entries 49
Mean −0.01078
Std Dev 0.5234

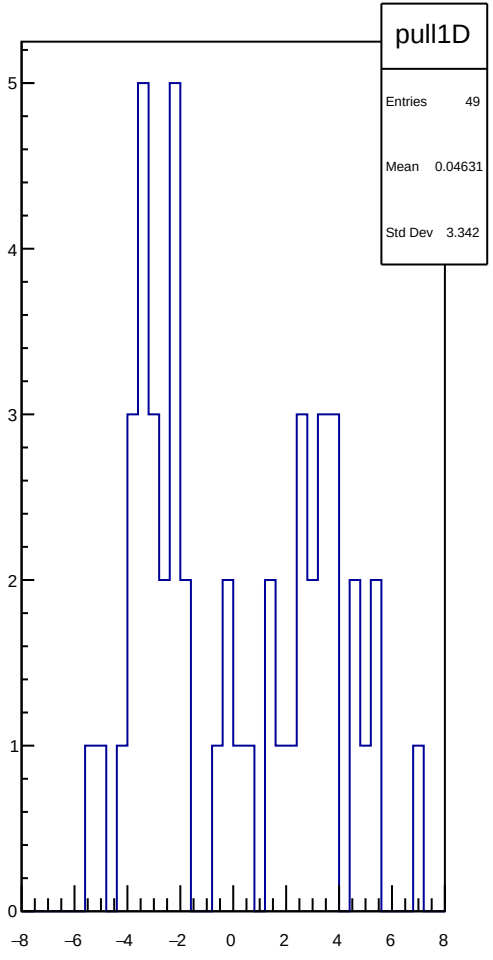

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 35.7 / 48
p0 80.17 ± 0.6816
95
90
85
80
75
70
65
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −22.51
Std Dev 57.12
2
1
0
−1
−2

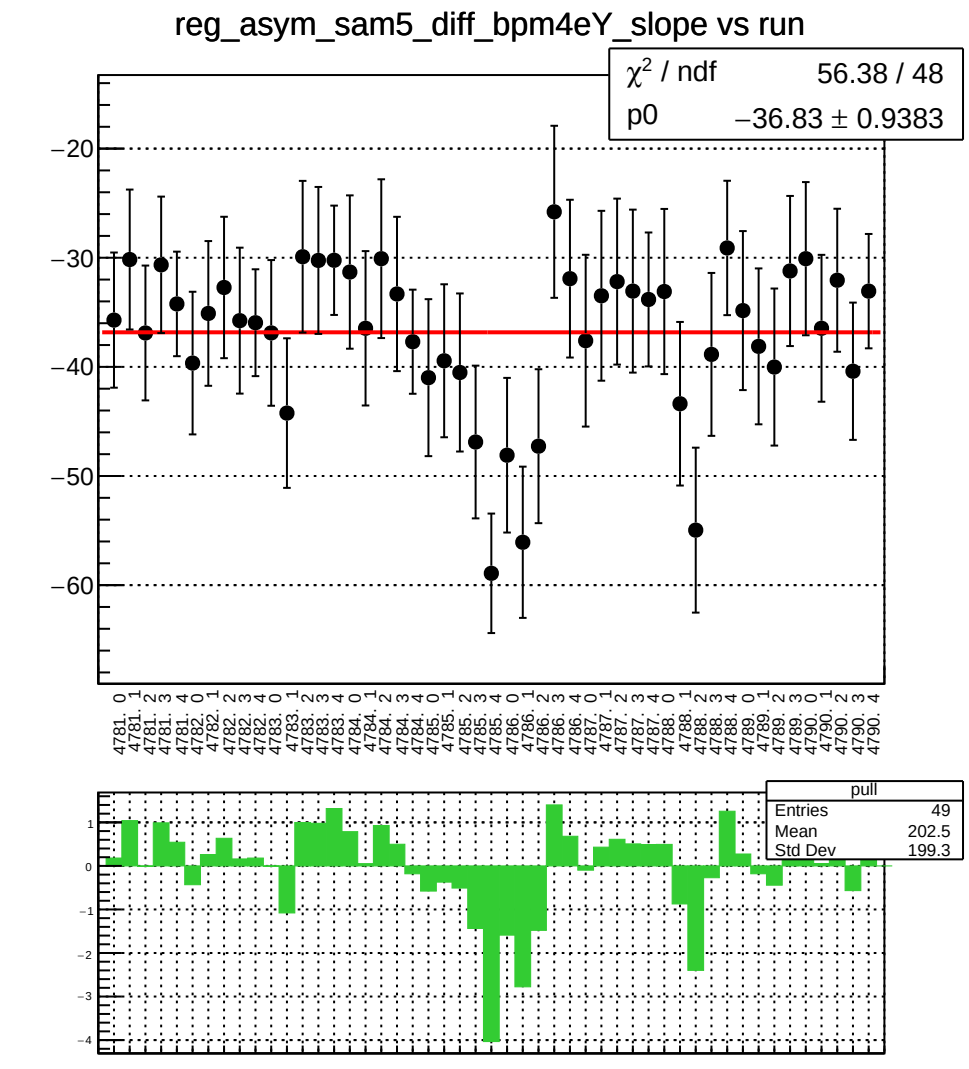

pull1D
Entries 49
Mean −0.008839
Std Dev 0.8535
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

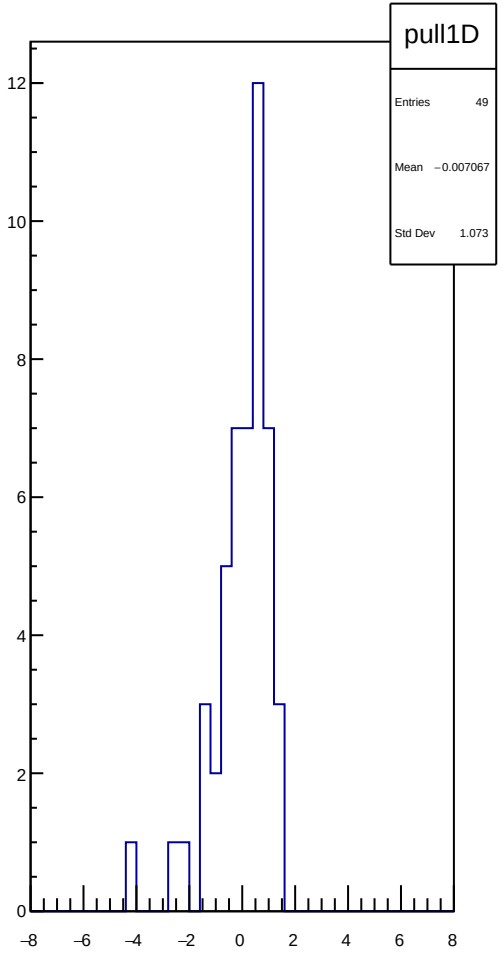

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 43.96 / 48
p0 88.06 ± 0.7784
pull
Entries 49
Mean 55.7
Std Dev 40.18

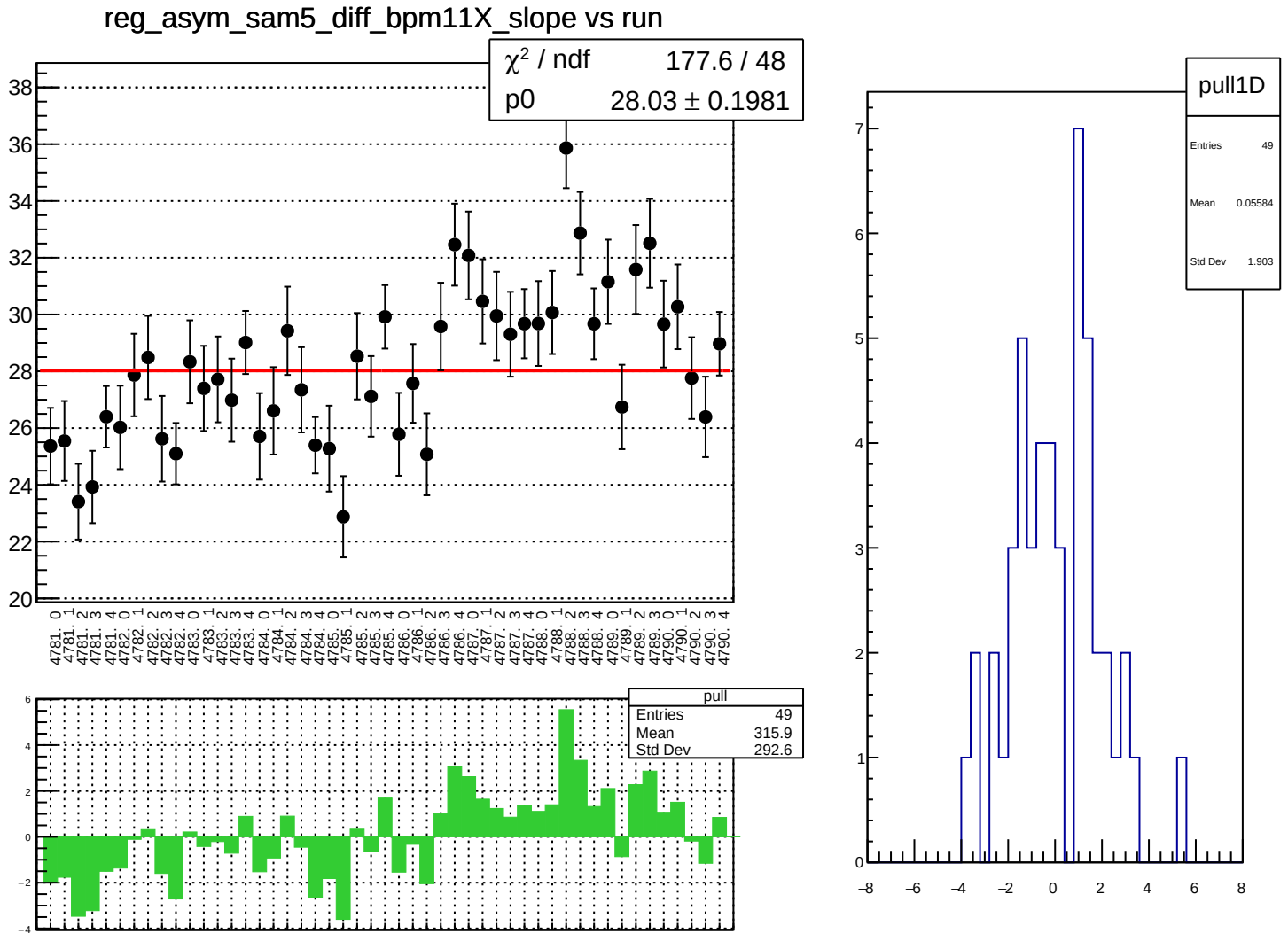

pull1D
Entries 49
Mean −0.0168
Std Dev 0.9471

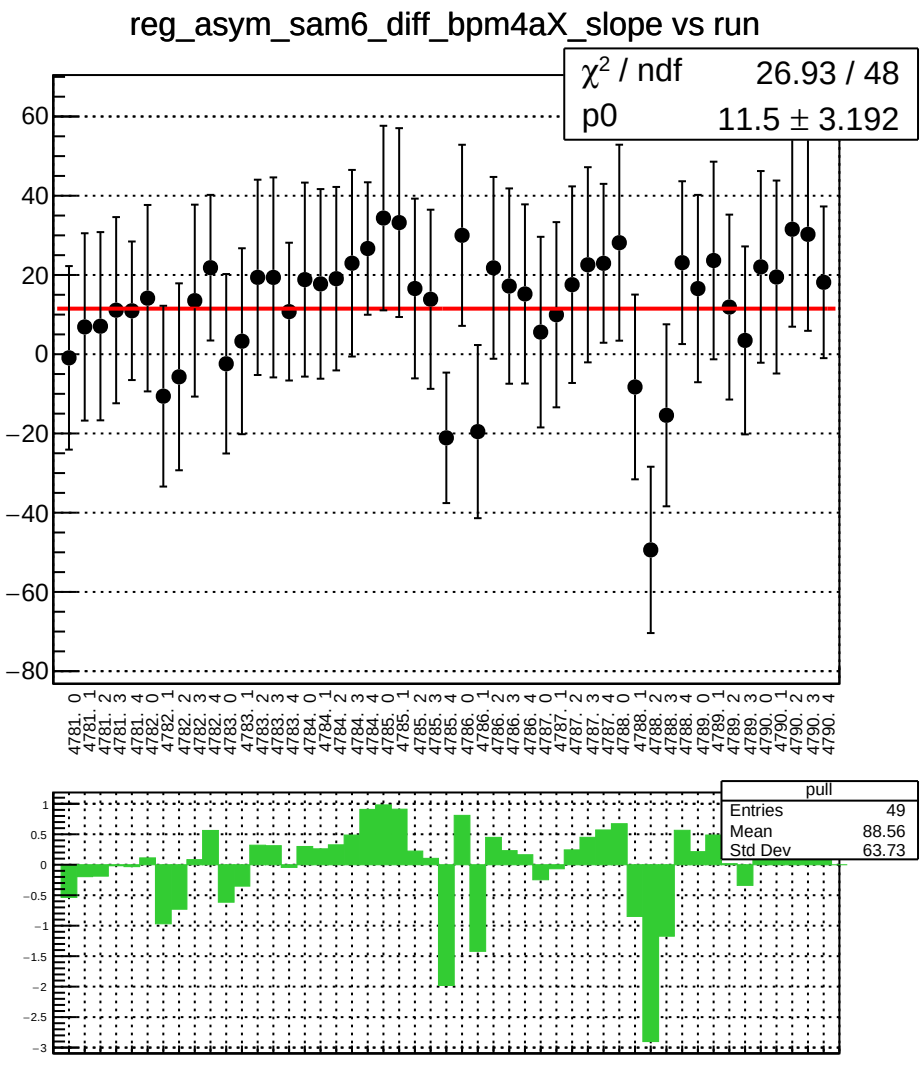

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 547.2 / 48
p0 −20.59 ± 0.1315
pull
Entries 49
Mean 914.5
Std Dev 888.4

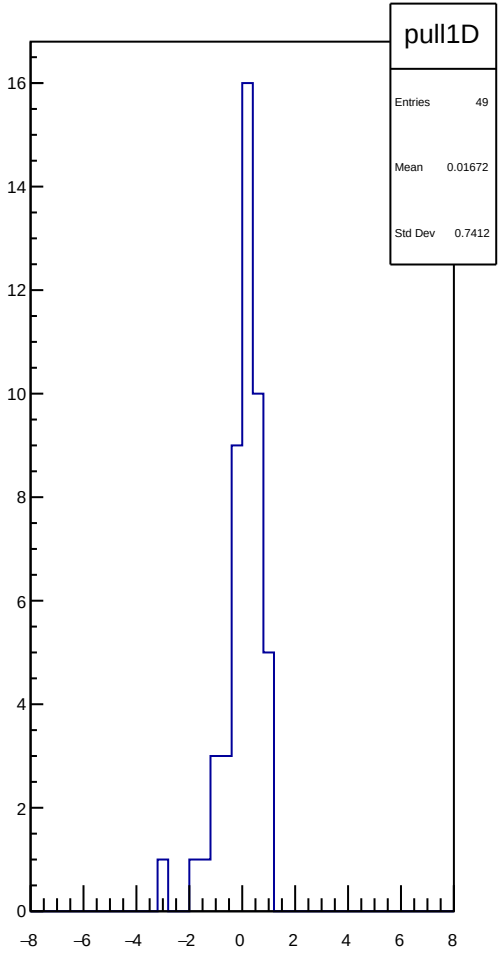

pull1D
Entries 49
Mean 0.04631
Std Dev 3.342

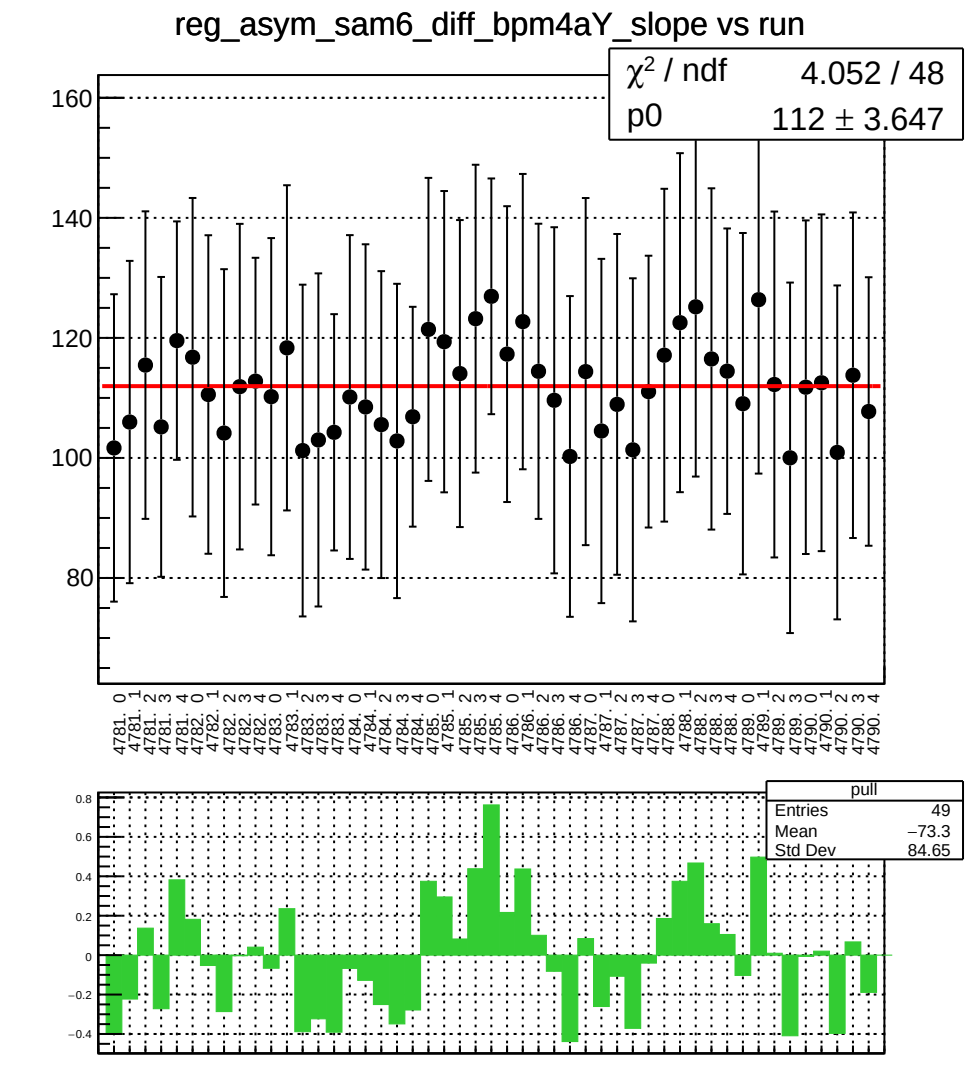

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 56.38 / 48
p0 −36.83 ± 0.9383
pull
Entries 49
Mean 202.5
Std Dev 199.3

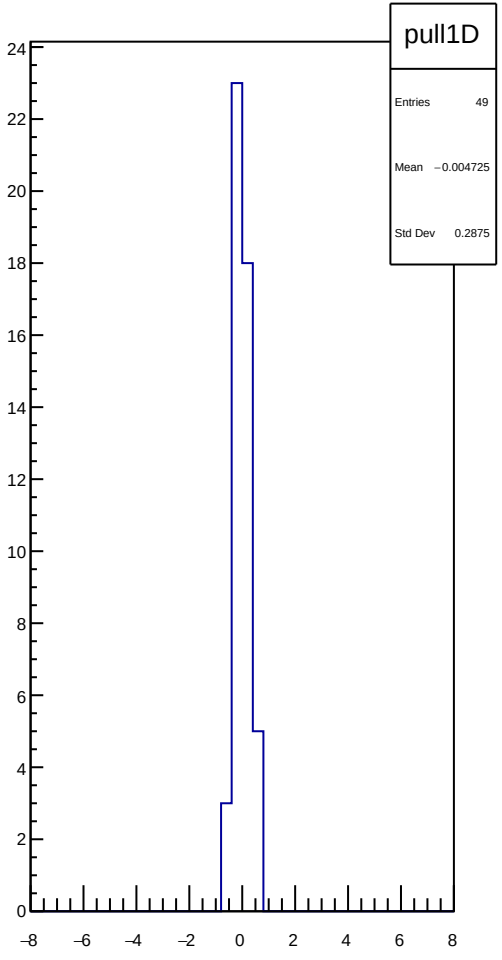

pull1D
Entries 49
Mean −0.007067
Std Dev 1.073

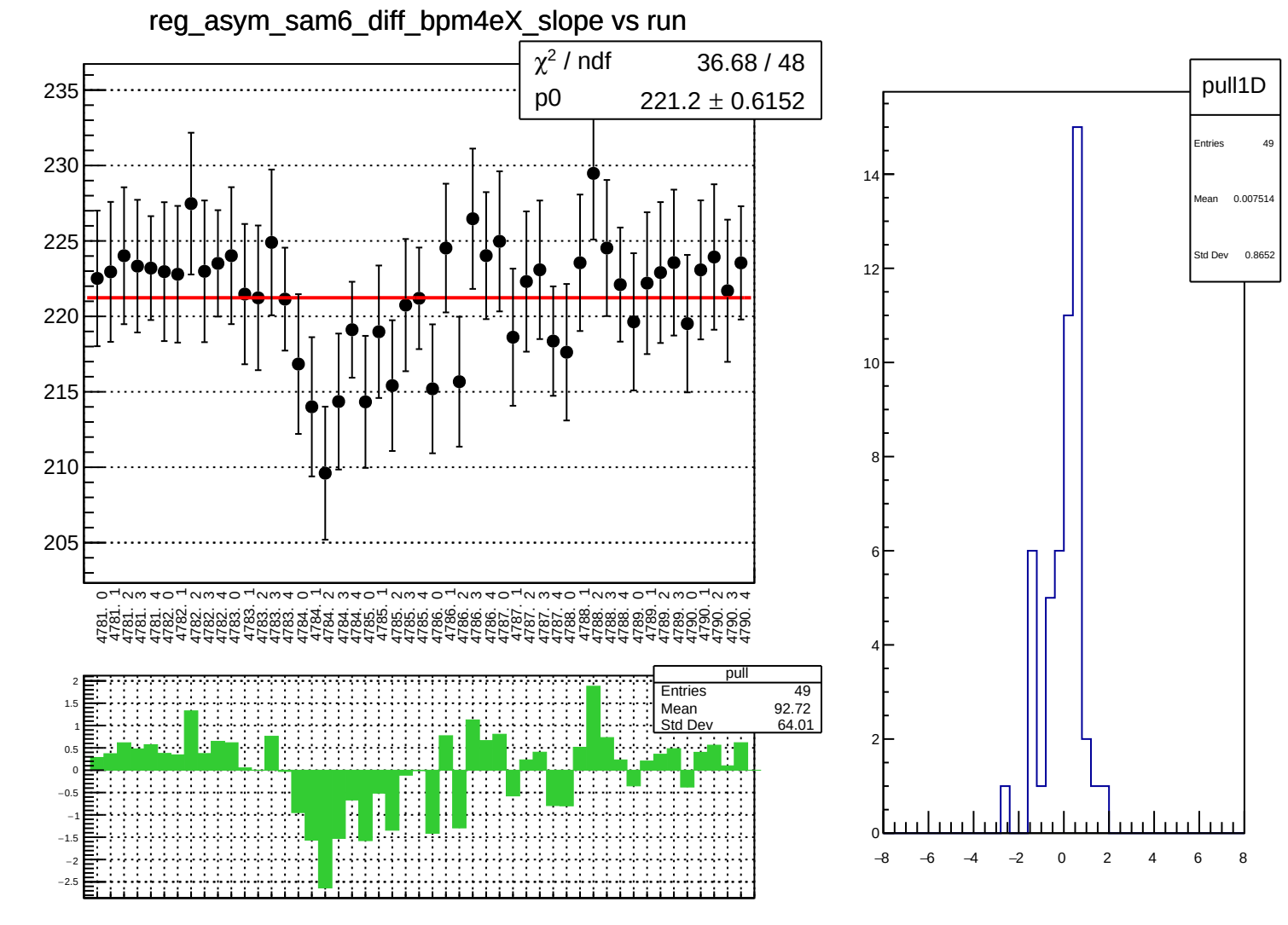

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 177.6 / 48
p0 28.03 ± 0.1981
pull
Entries 49
Mean 315.9
Std Dev 292.6
pull1D
Entries 49
Mean 0.05584
Std Dev 1.903

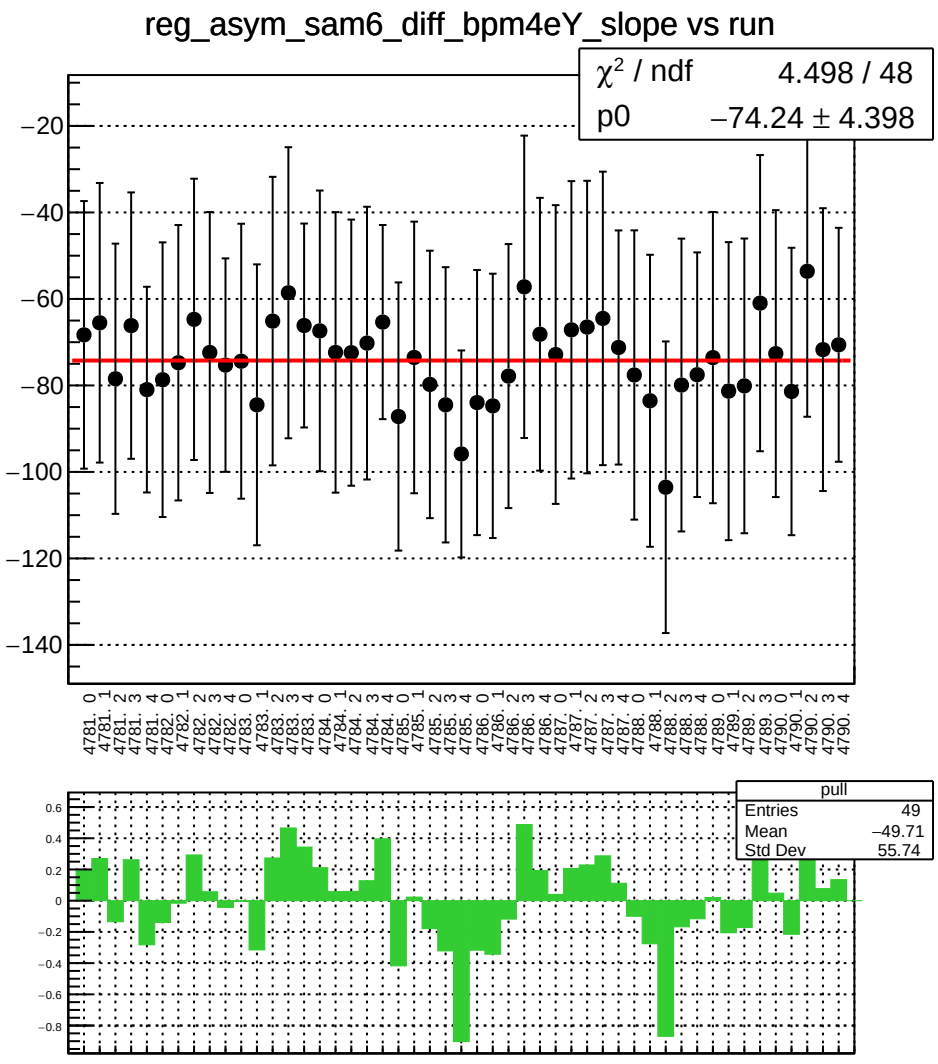

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 26.93 / 48
p0 11.5 ± 3.192
pull
Entries 49
Mean 88.56
Std Dev 63.73

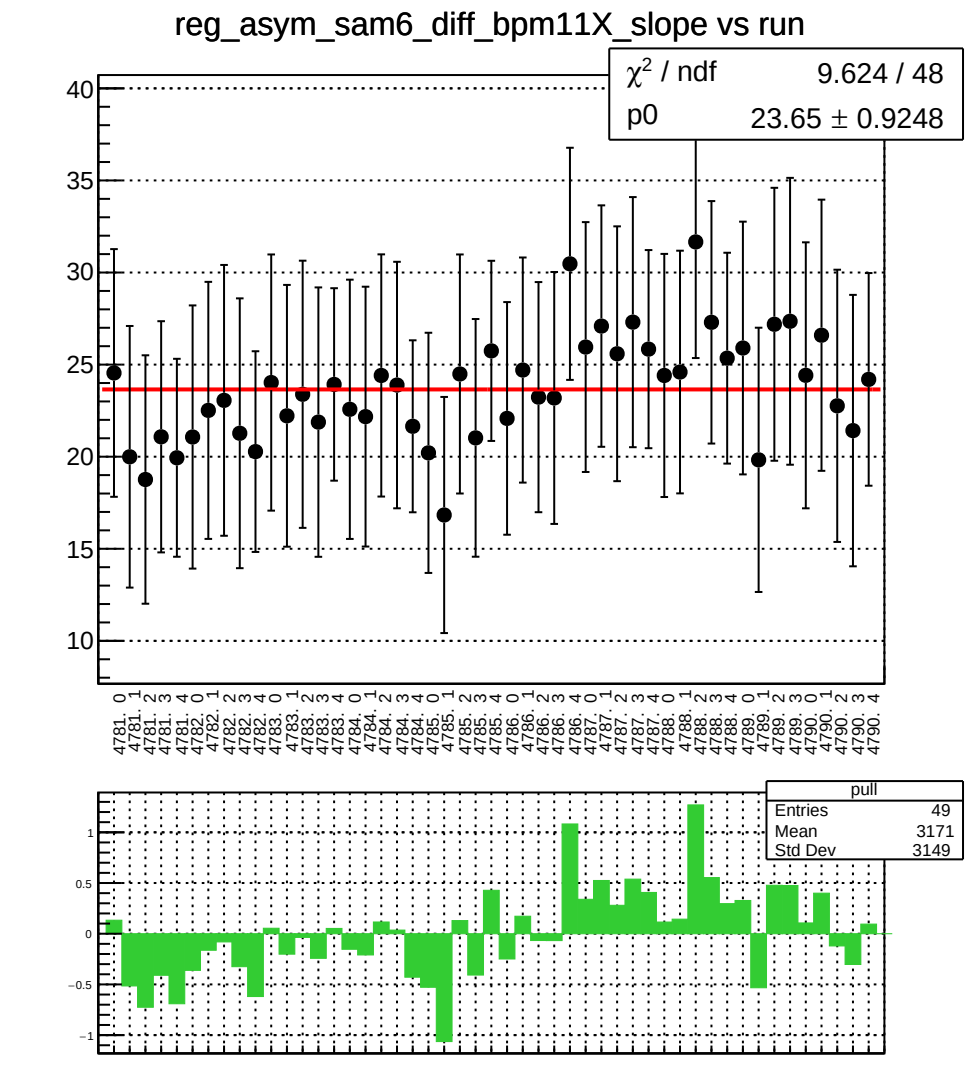

pull1D
Entries 49
Mean 0.01672
Std Dev 0.7412

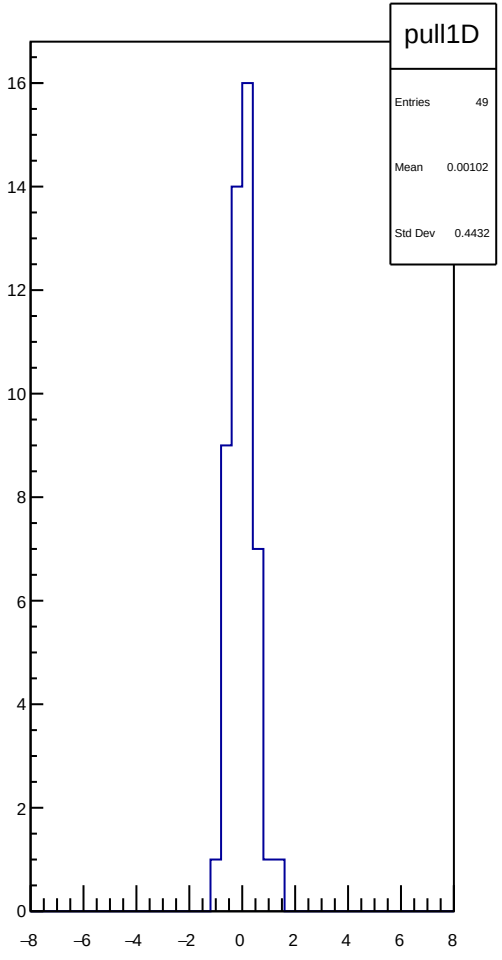

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 4.052 / 48
p0 112 ± 3.647
160
140
120
100
80
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −73.3
Std Dev 84.65
0.8
0.6
0.4
0.2
0
−0.2
−0.4

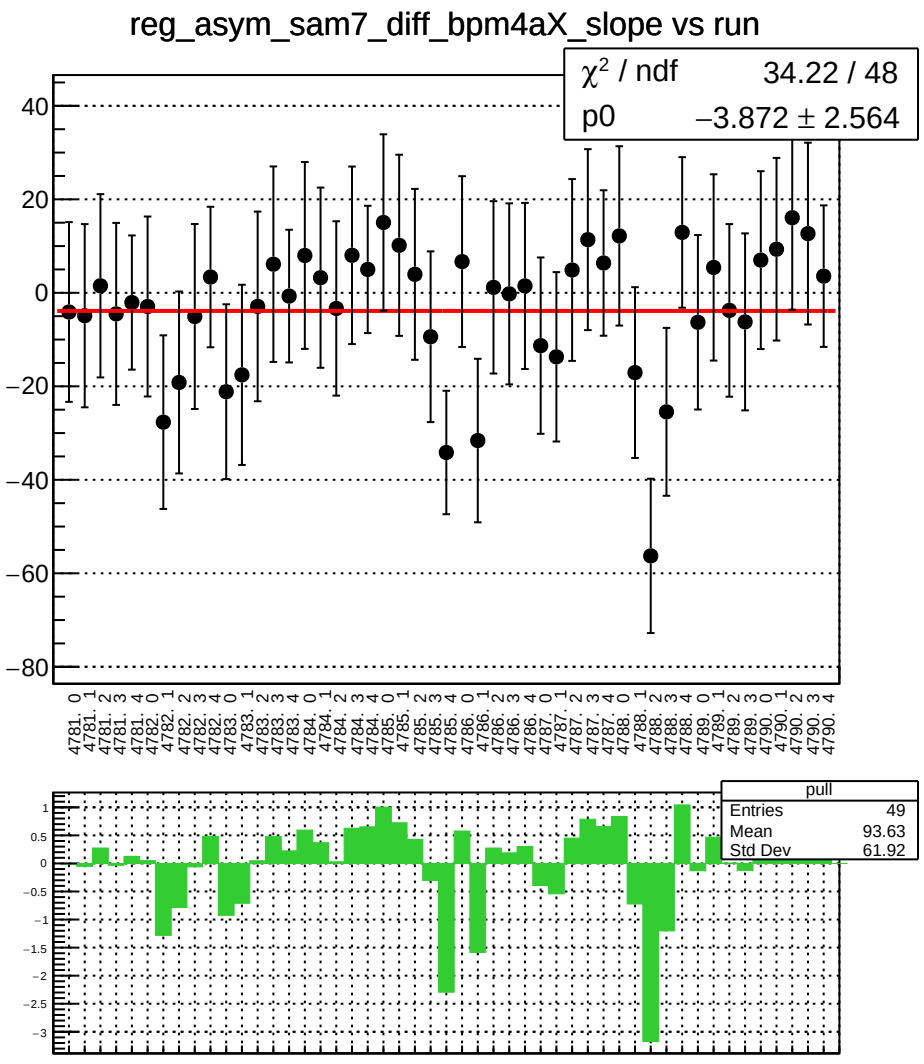

pull1D
Entries 49
Mean −0.004725
Std Dev 0.2875
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

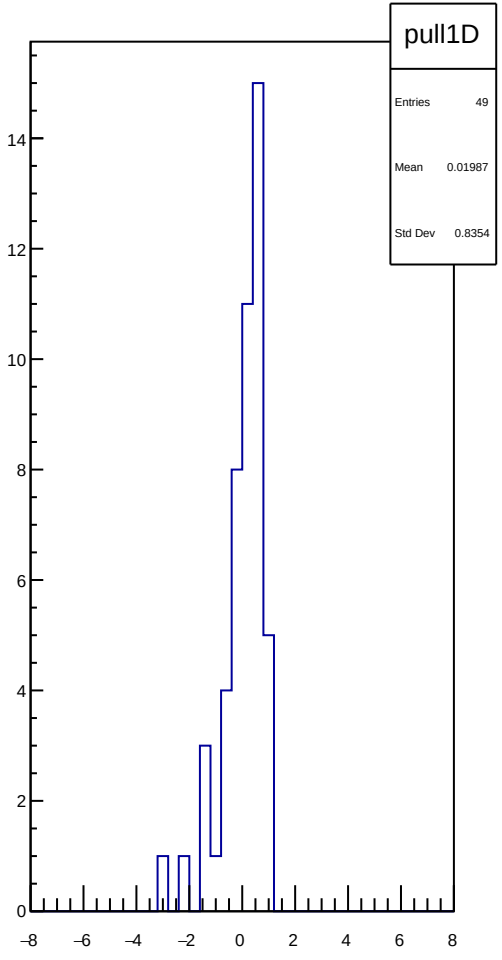

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 36.68 / 48
p0 221.2 ± 0.6152
235
230
225
220
215
210
205
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 92.72
Std Dev 64.01
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 49
Mean 0.007514
Std Dev 0.8652
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

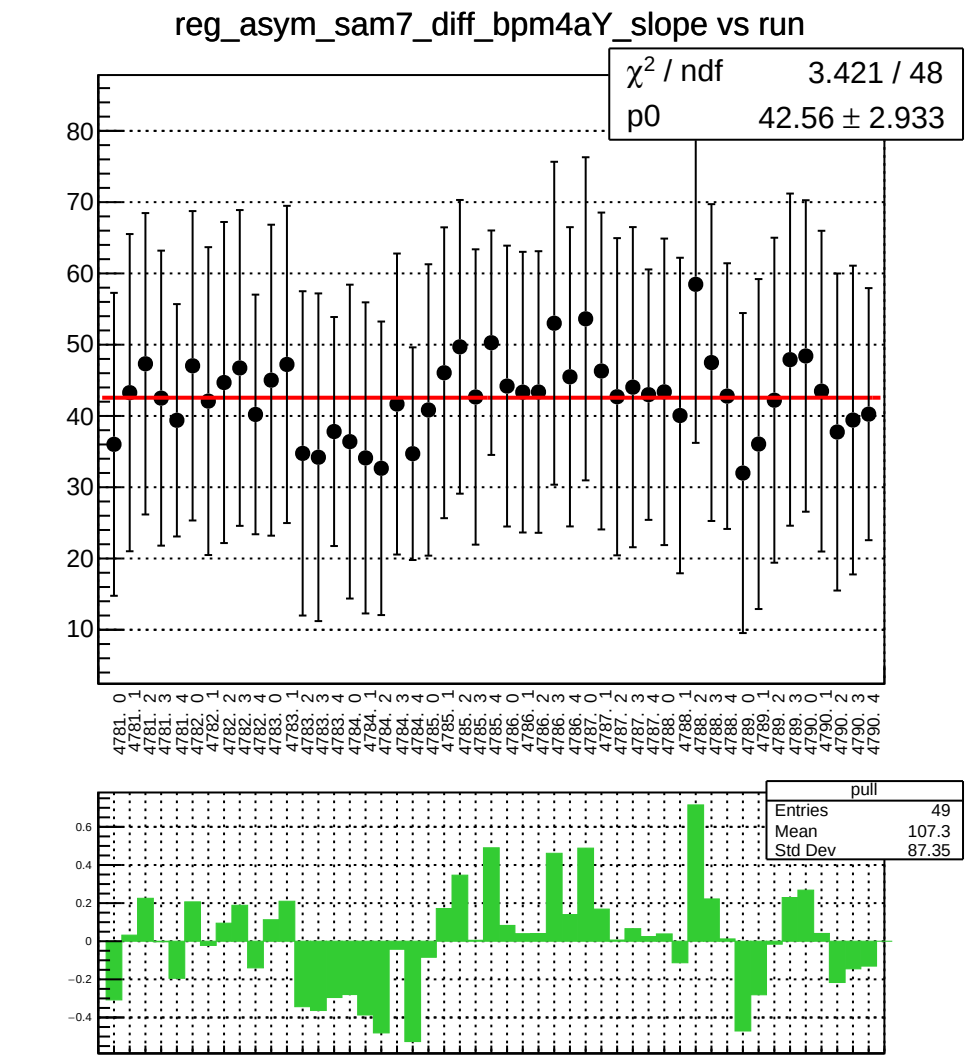

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 4.498 / 48
p0 −74.24 ± 4.398
−20
−40
−60
−80
−100
−120
−140
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −49.71
Std Dev 55.74
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 49
Mean 0.004372
Std Dev 0.303
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

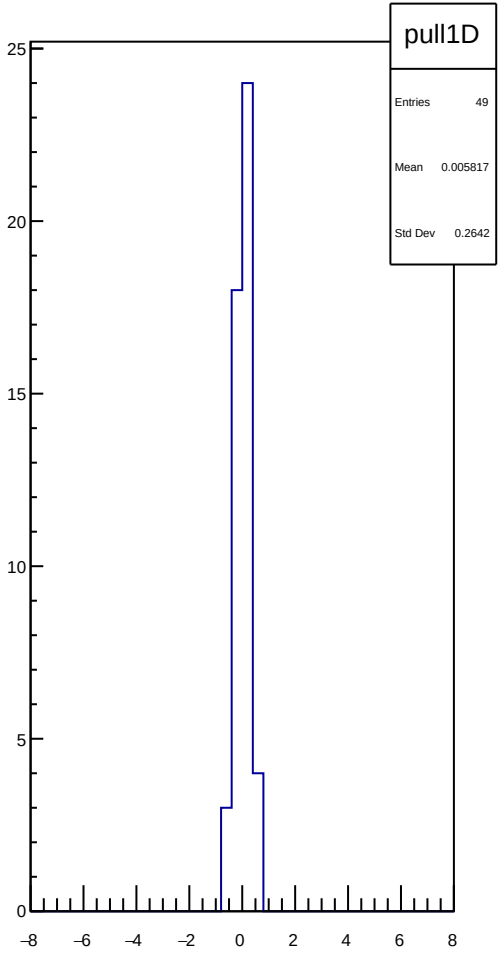

reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 9.624 / 48
p0 23.65 ± 0.9248
pull
Entries 49
Mean 3171
Std Dev 3149

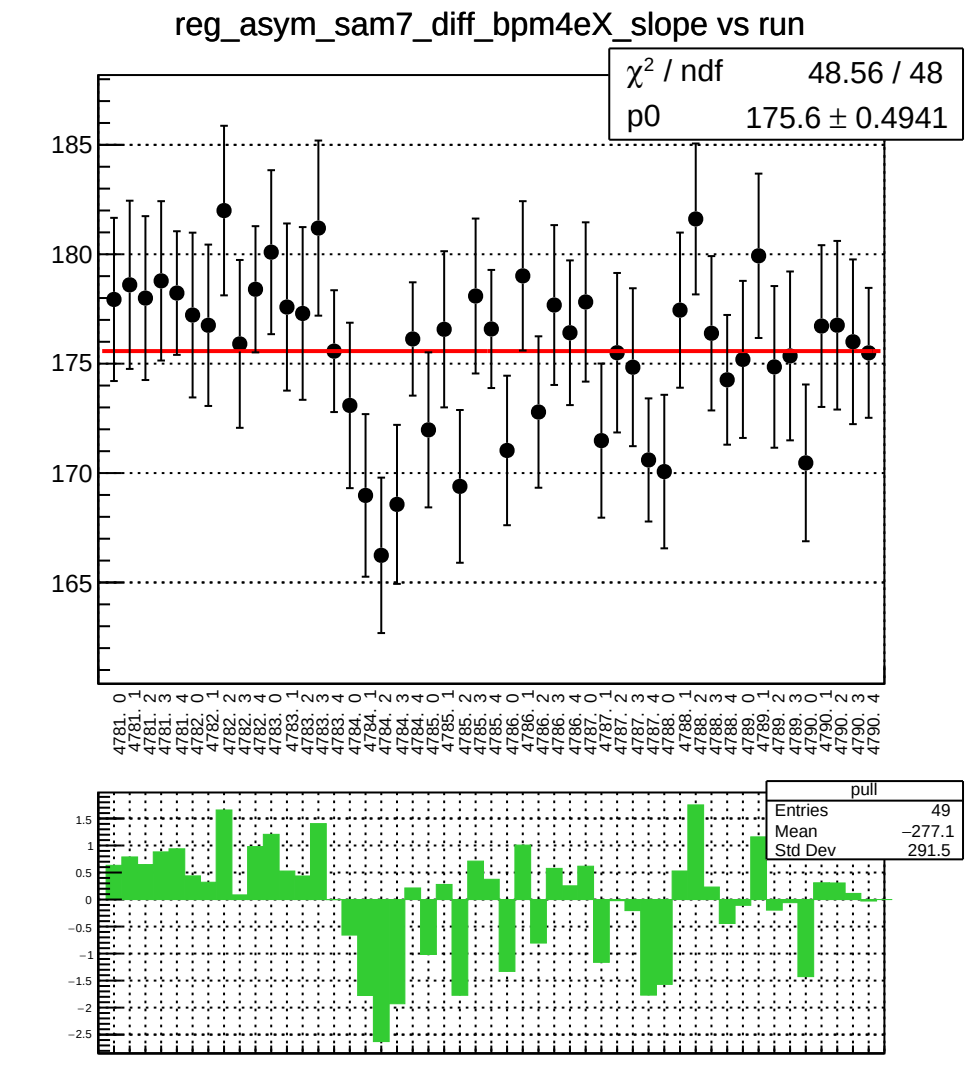

pull1D
Entries 49
Mean 0.00102
Std Dev 0.4432

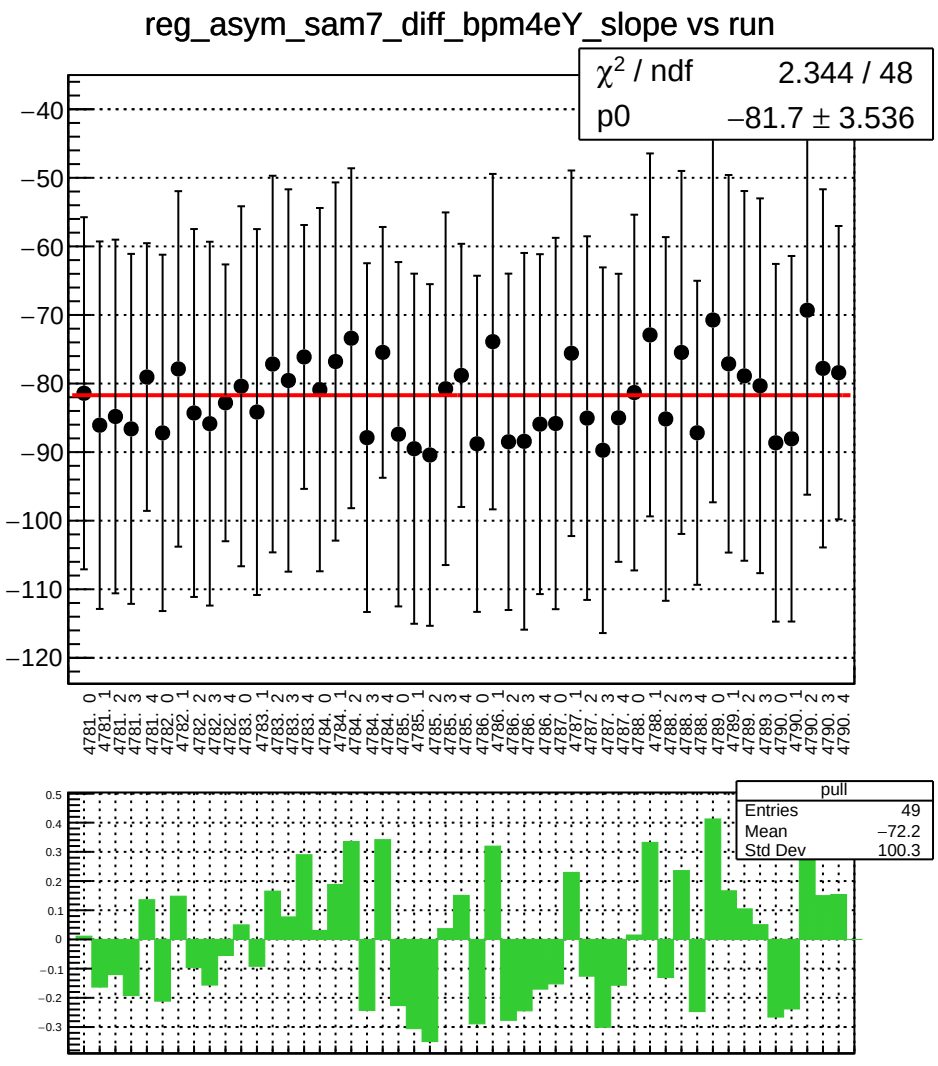

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 34.22 / 48
p0 −3.872 ± 2.564
pull
Entries 49
Mean 93.63
Std Dev 61.92

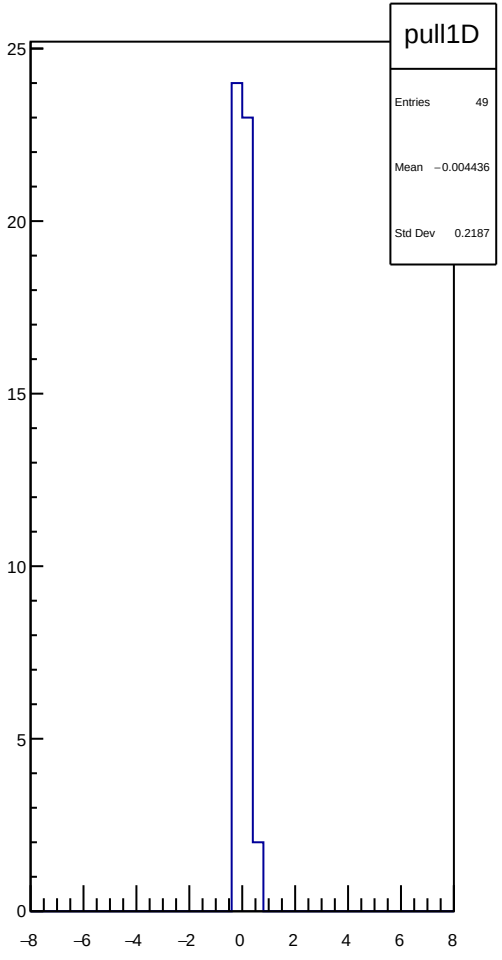

pull1D
Entries 49
Mean 0.01987
Std Dev 0.8354

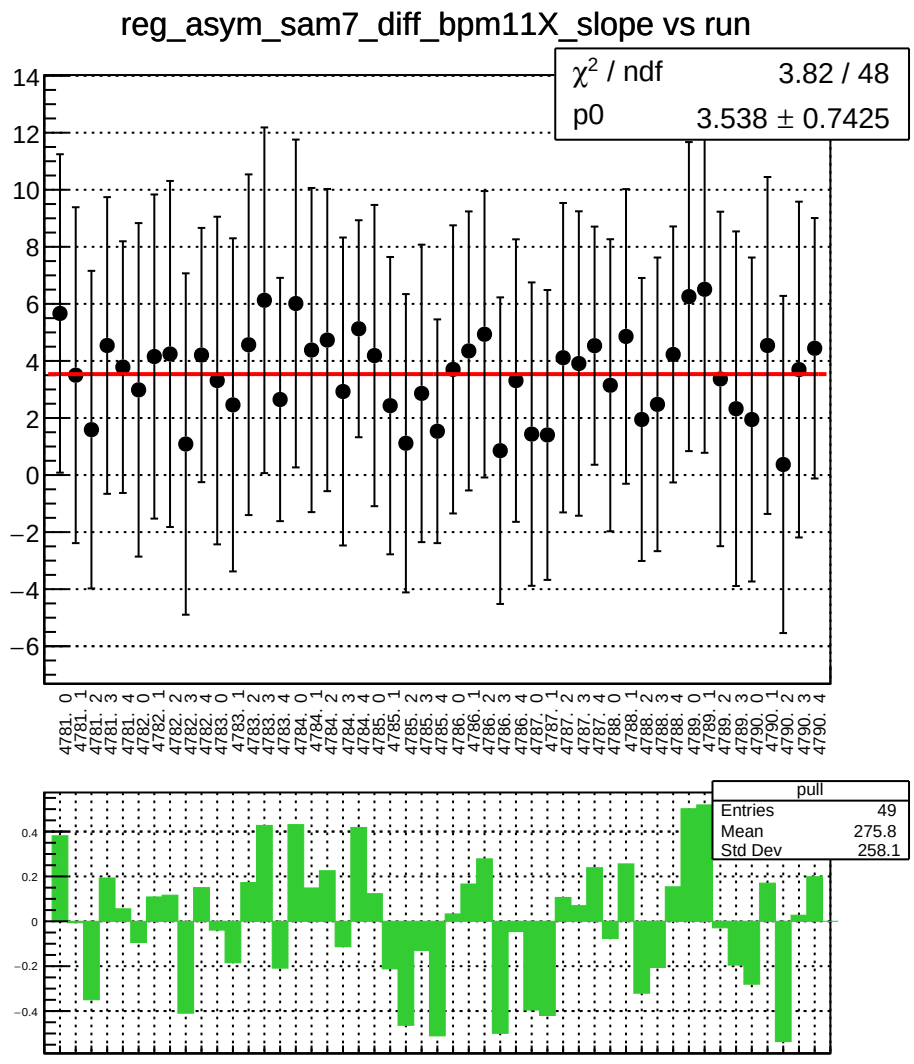

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 3.421 / 48
p0 42.56 ± 2.933
pull
Entries 49
Mean 107.3
Std Dev 87.35

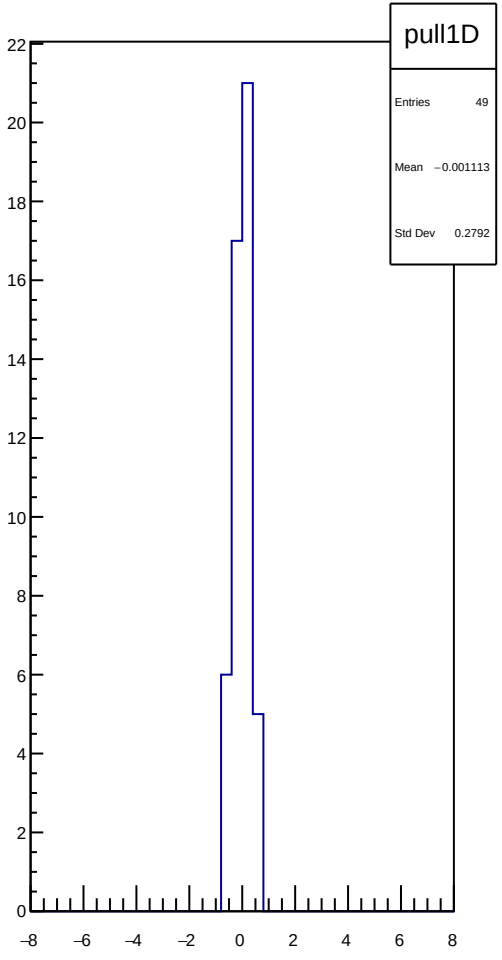

pull1D
Entries 49
Mean 0.005817
Std Dev 0.2642

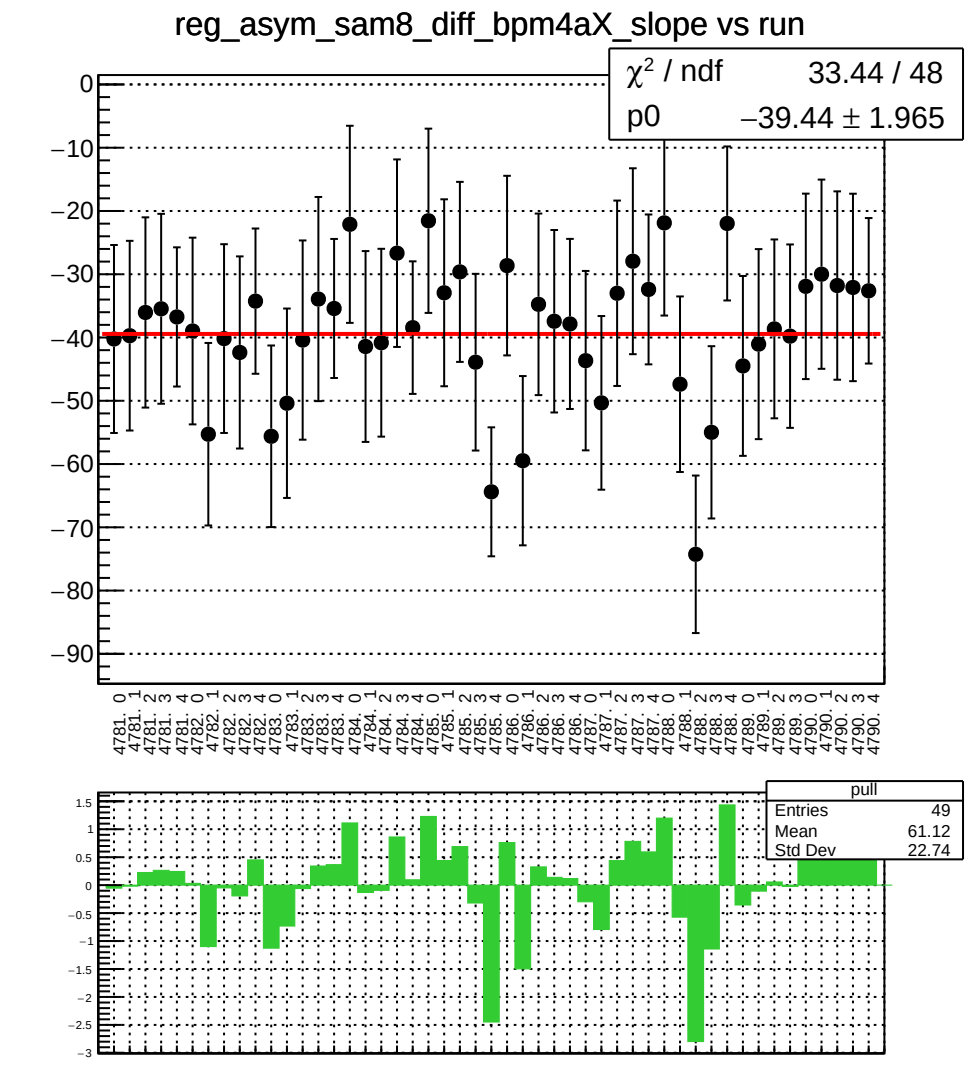

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 48.56 / 48
p0 175.6 ± 0.4941
185
180
175
170
165
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −277.1
Std Dev 291.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 49
Mean 0.009895
Std Dev 0.9955
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

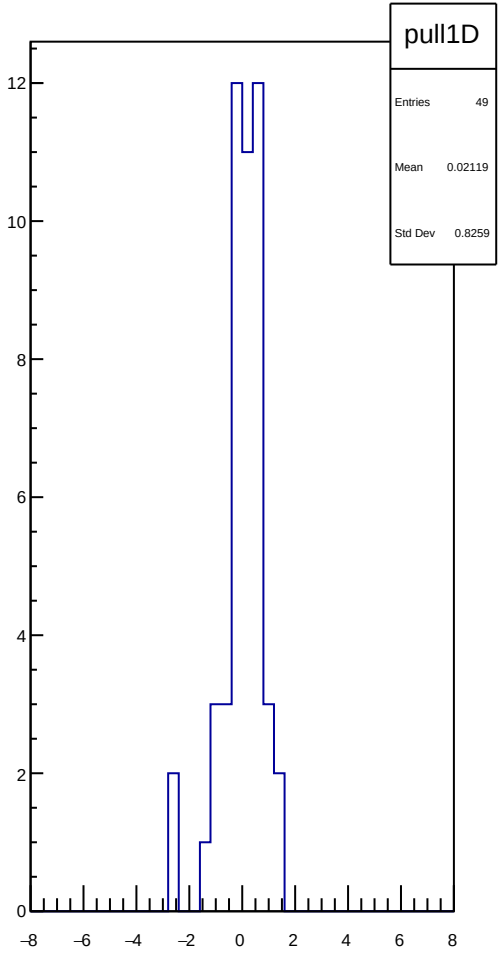

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 2.344 / 48
p0 −81.7 ± 3.536
pull
Entries 49
Mean −72.2
Std Dev 100.3

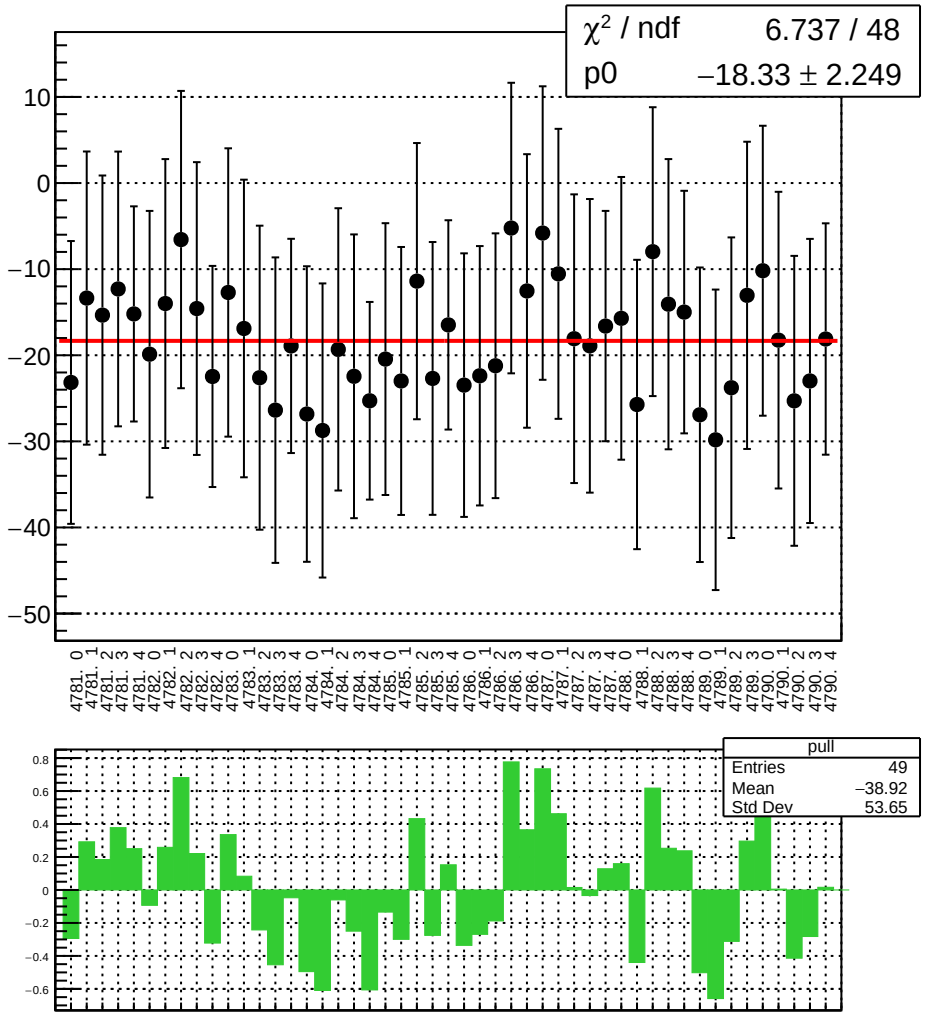

pull1D
Entries 49
Mean −0.004436
Std Dev 0.2187

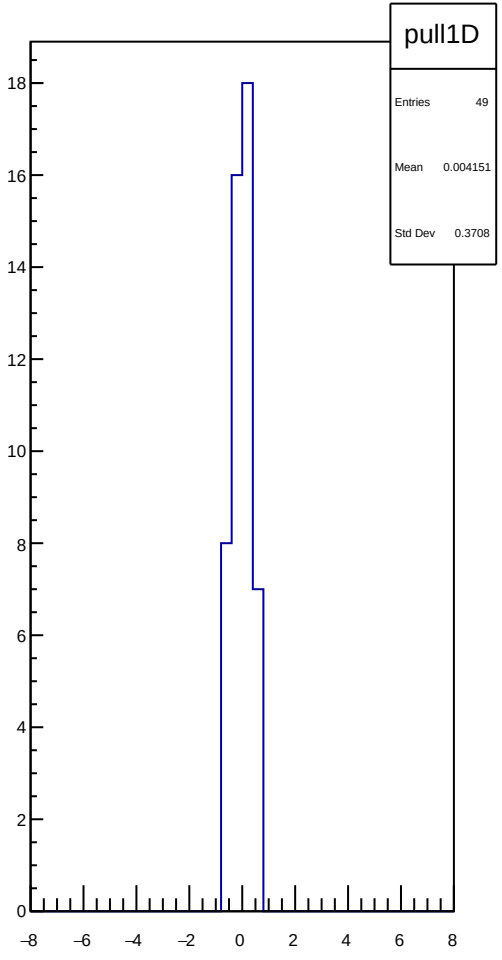

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 3.82 / 48
p0 3.538 ± 0.7425
pull
Entries 49
Mean 275.8
Std Dev 258.1

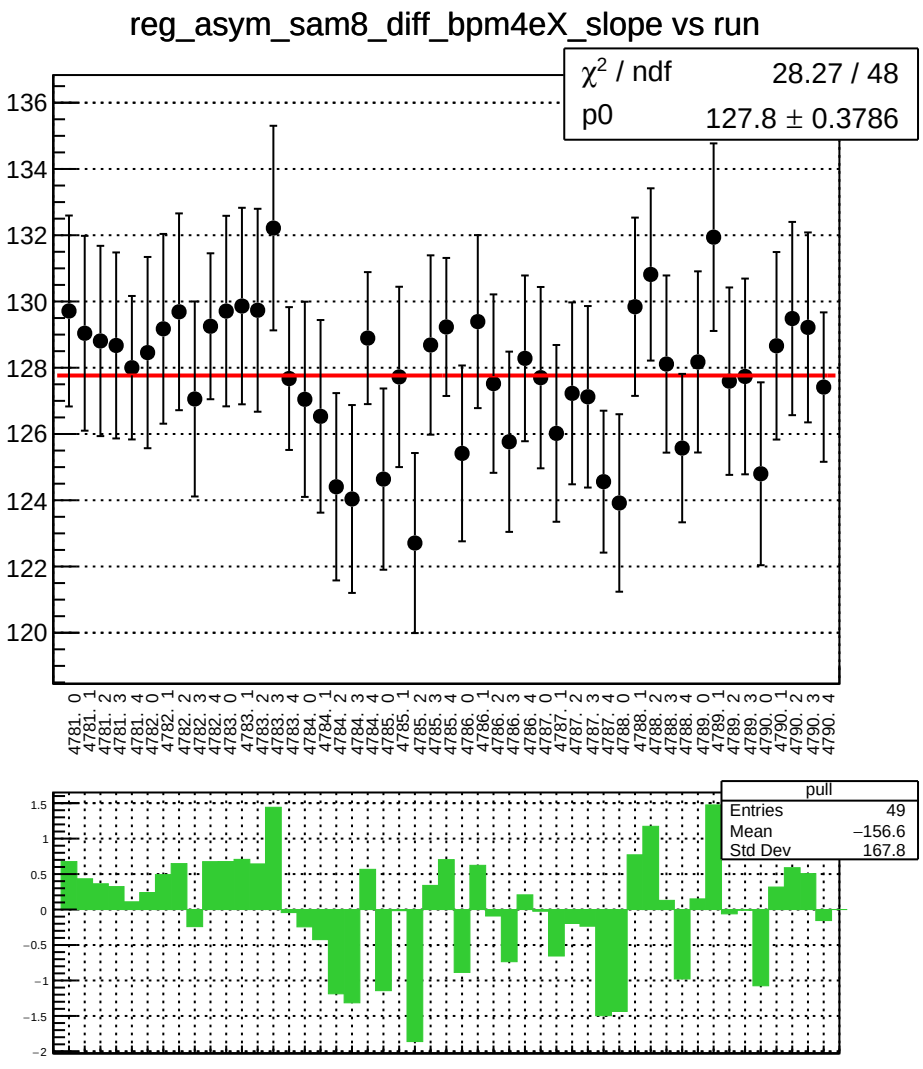

pull1D
Entries 49
Mean −0.001113
Std Dev 0.2792

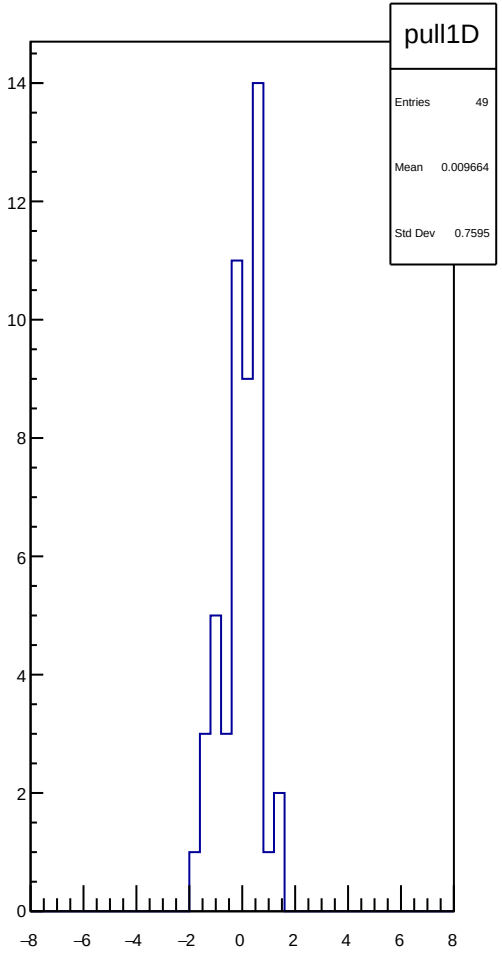

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 33.44 / 48
p0 −39.44 ± 1.965
pull
Entries 49
Mean 61.12
Std Dev 22.74

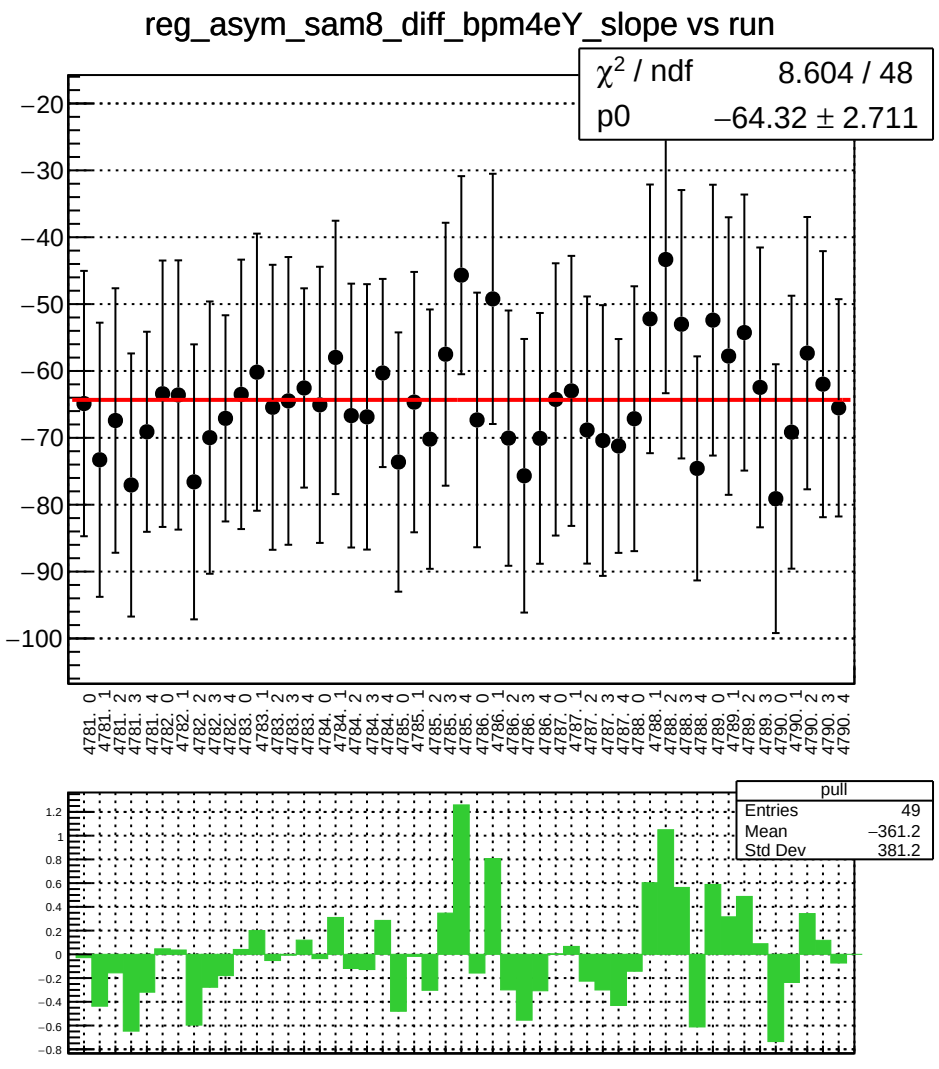

pull1D
Entries 49
Mean 0.02119
Std Dev 0.8259

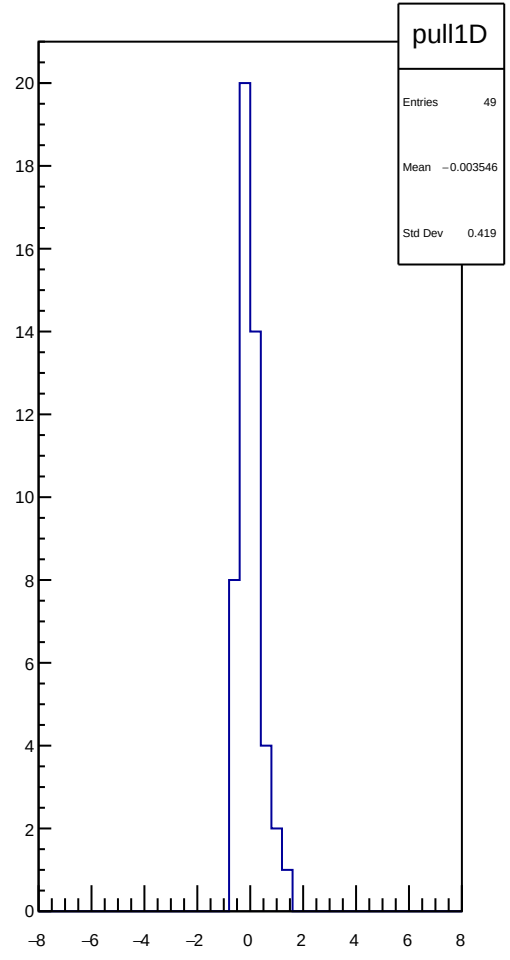

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 6.737 / 48
p0 −18.33 ± 2.249
pull
Entries 49
Mean −38.92
Std Dev 53.65

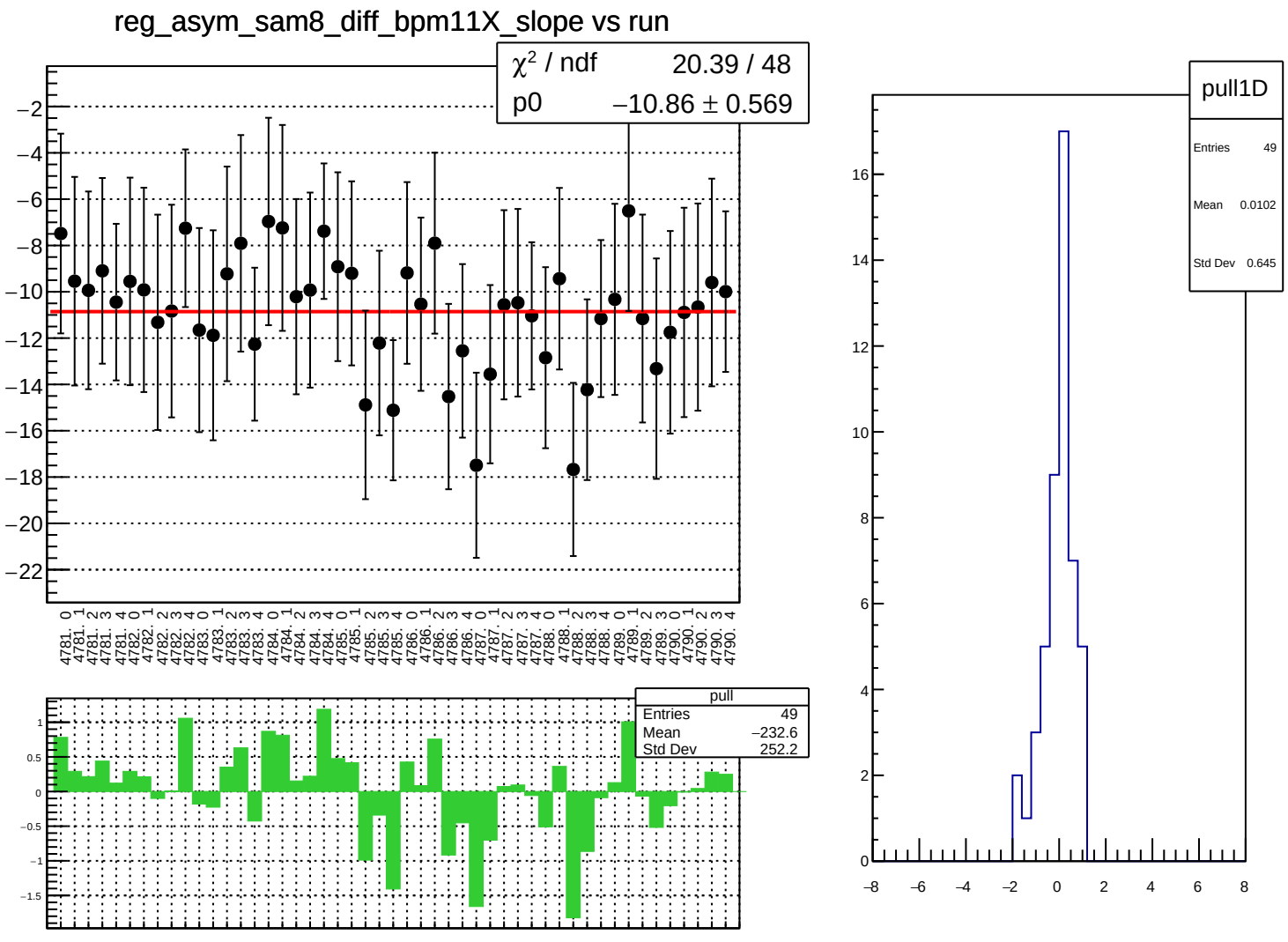

pull1D
Entries 49
Mean 0.004151
Std Dev 0.3708

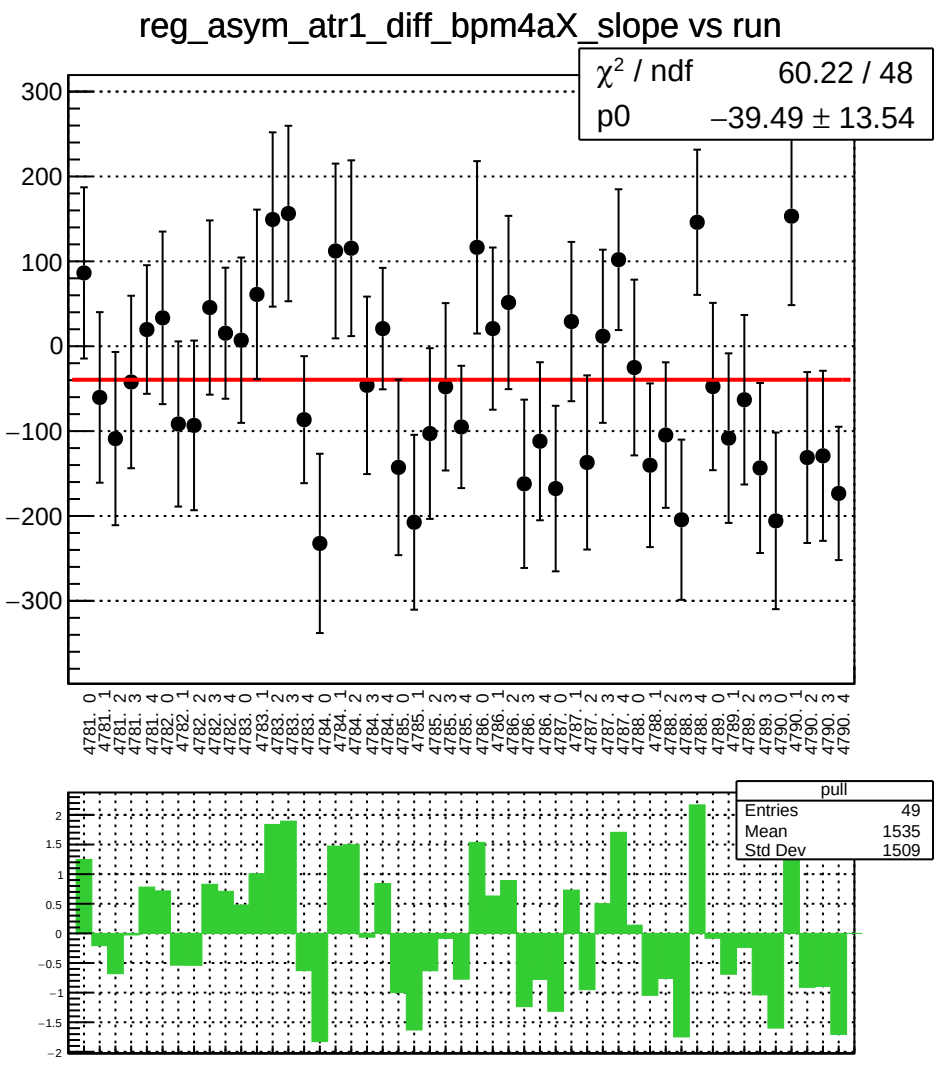

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 28.27 / 48
p0 127.8 ± 0.3786
pull
Entries 49
Mean −156.6
Std Dev 167.8

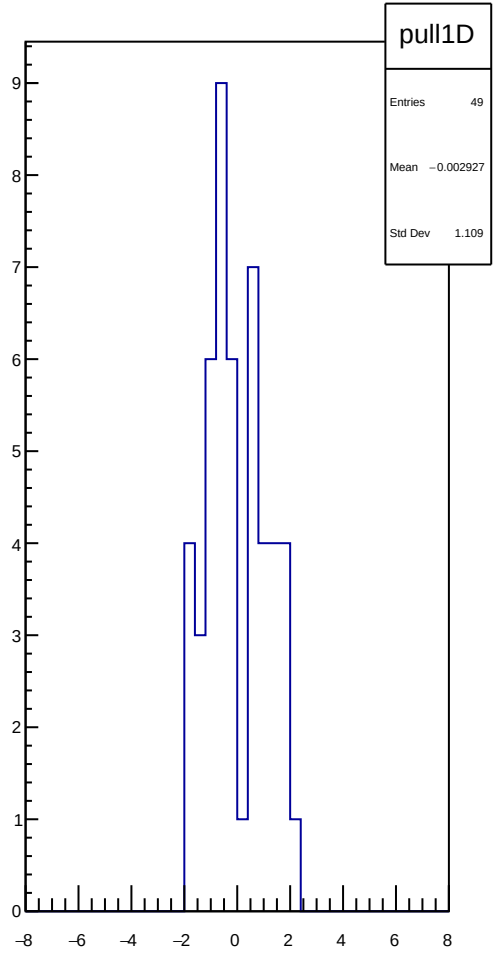

pull1D
Entries 49
Mean 0.009664
Std Dev 0.7595

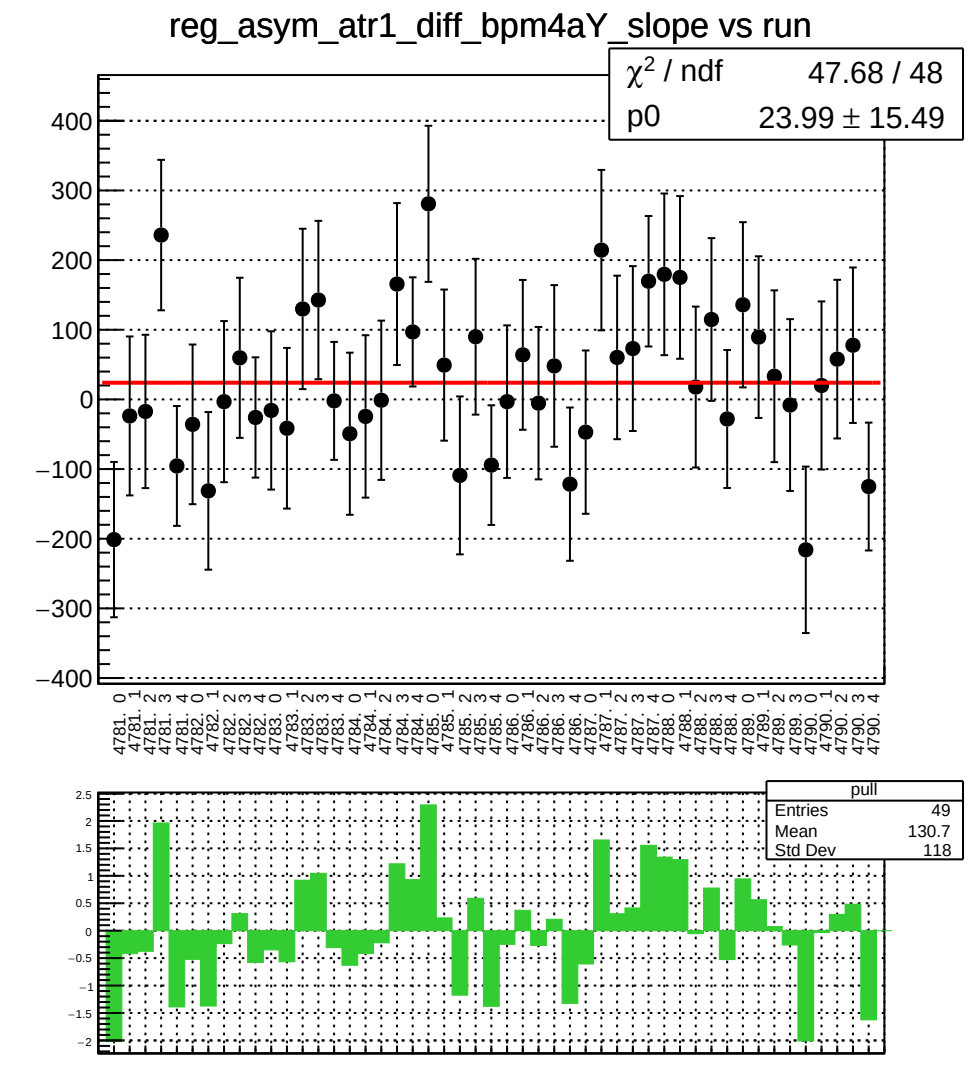

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 8.604 / 48
p0 −64.32 ± 2.711
pull
Entries 49
Mean −361.2
Std Dev 381.2

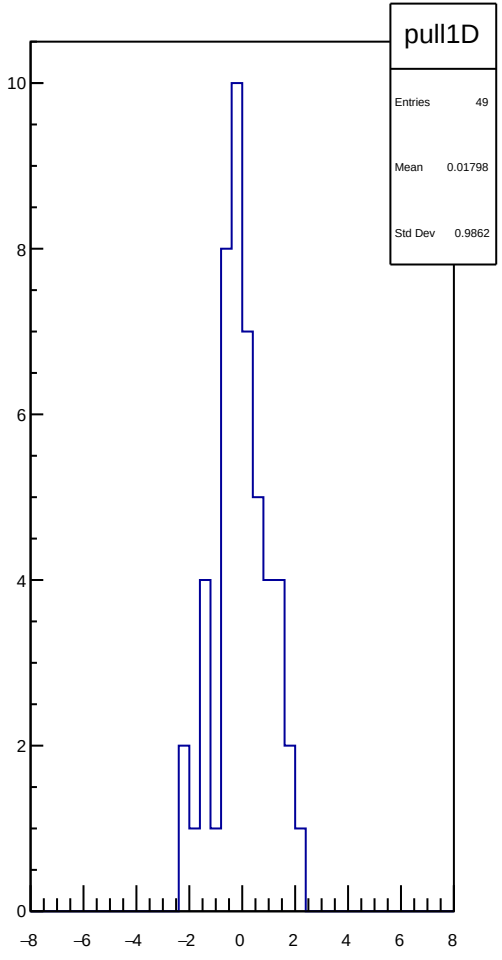

pull1D
Entries 49
Mean −0.003546
Std Dev 0.419

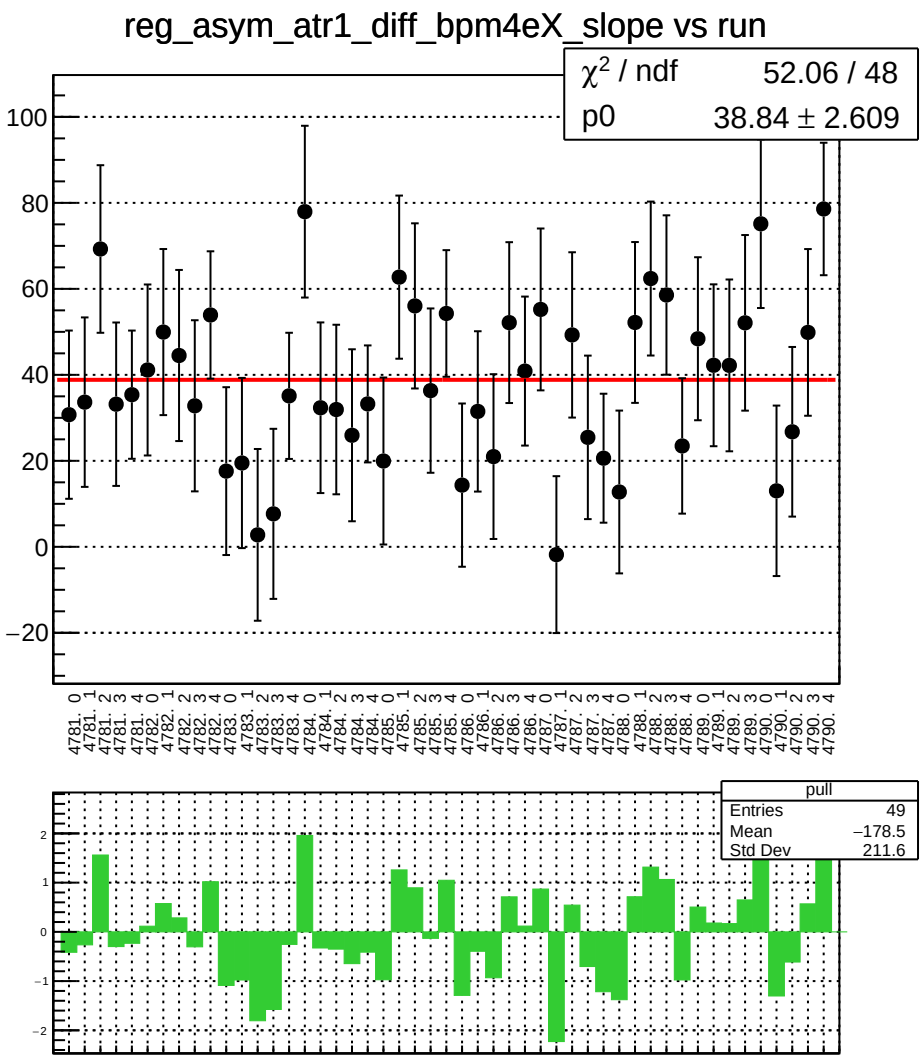

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 20.39 / 48
p0 −10.86 ± 0.569
pull
Entries 49
Mean −232.6
Std Dev 252.2
pull1D
Entries 49
Mean 0.0102
Std Dev 0.645

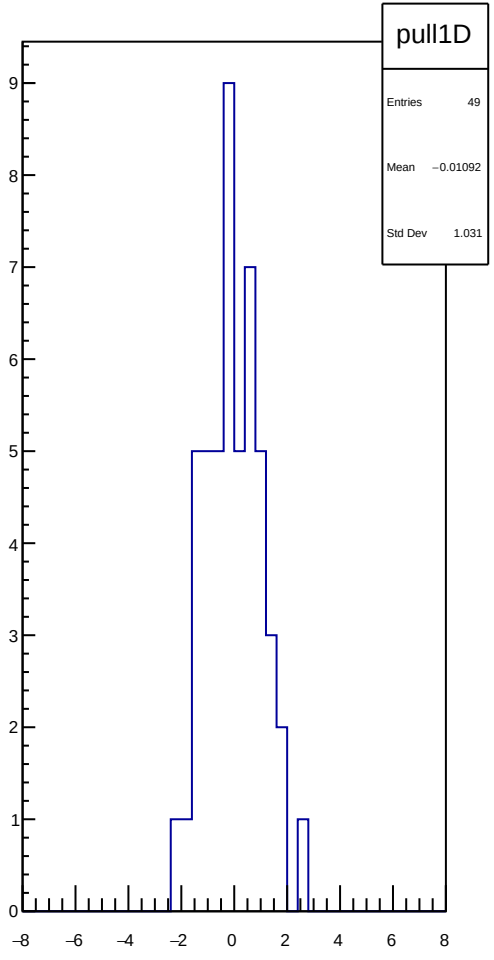

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 60.22 / 48
p0 −39.49 ± 13.54
pull
Entries 49
Mean 1535
Std Dev 1509

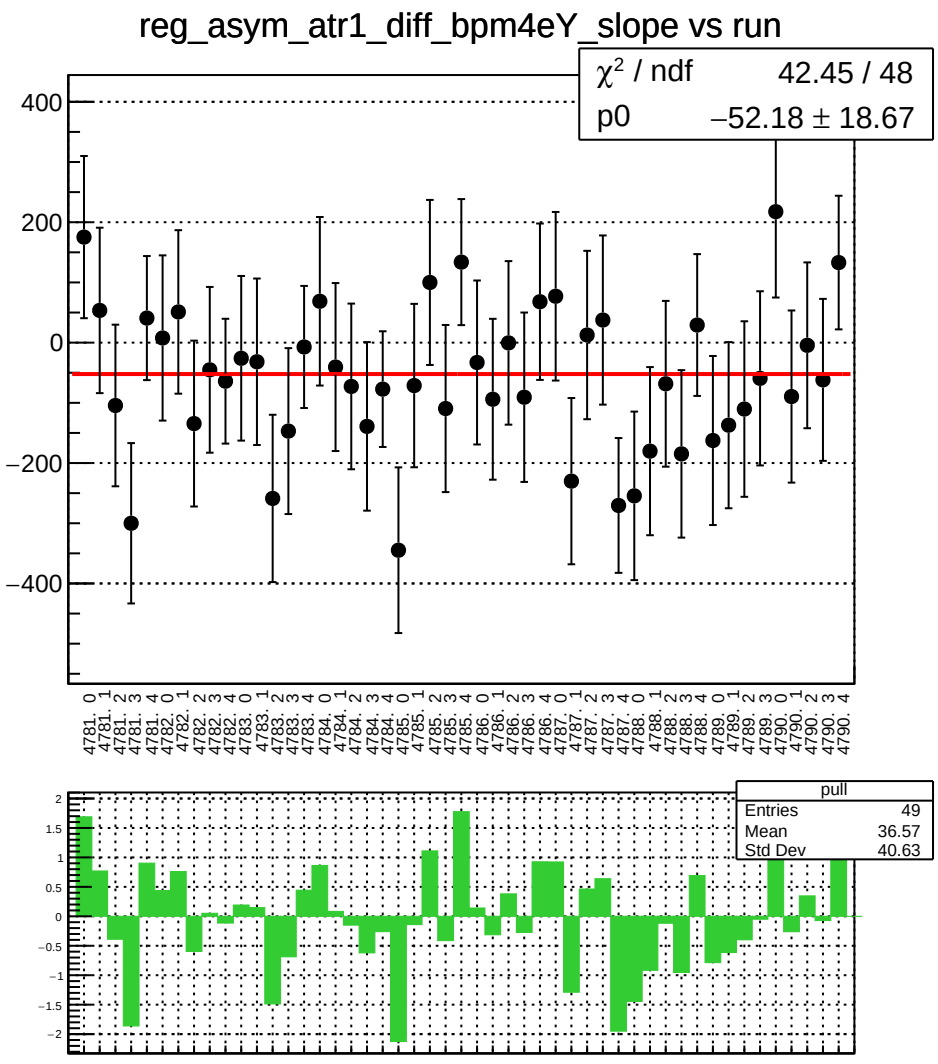

pull1D
Entries 49
Mean −0.002927
Std Dev 1.109

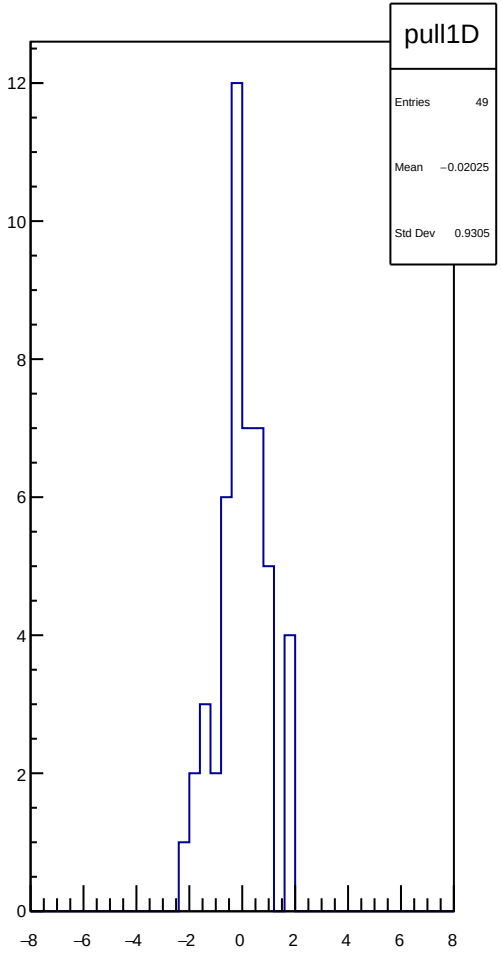

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 47.68 / 48
p0 23.99 ± 15.49
pull
Entries 49
Mean 130.7
Std Dev 118

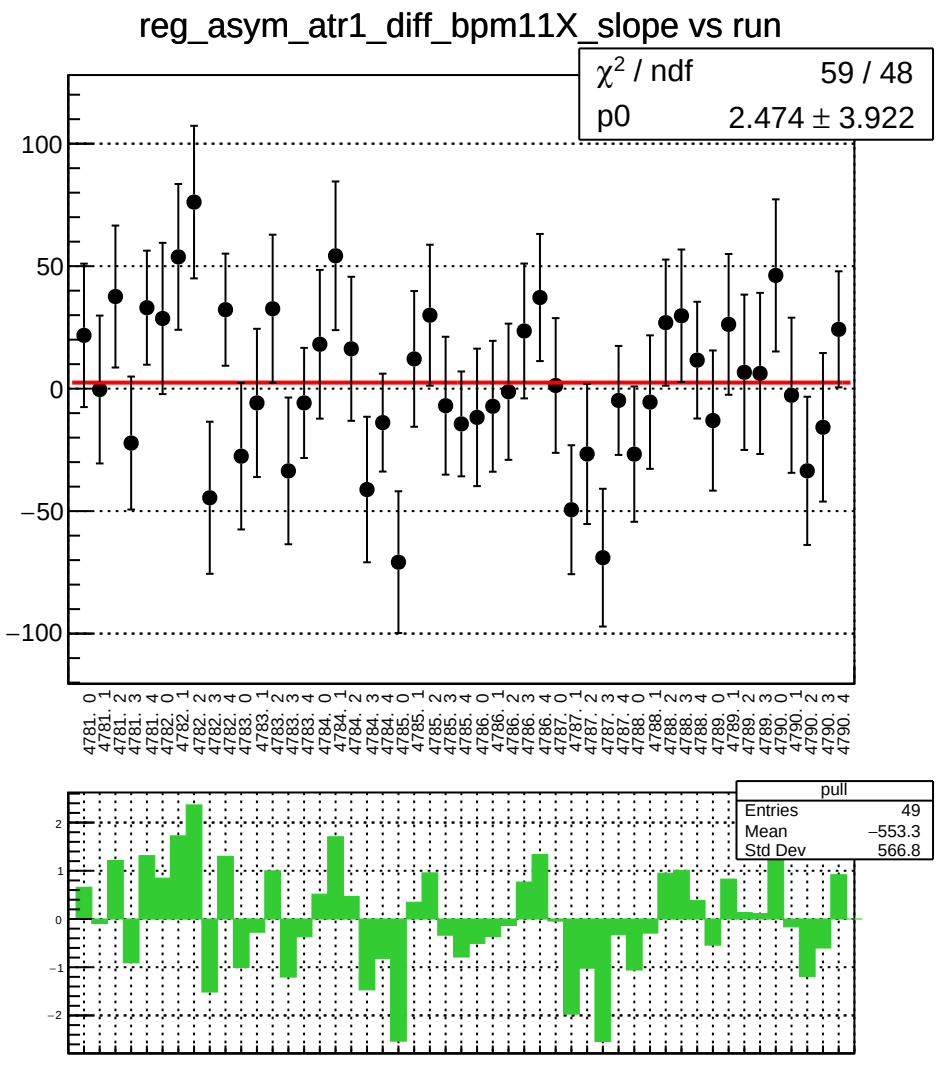

pull1D
Entries 49
Mean 0.01798
Std Dev 0.9862

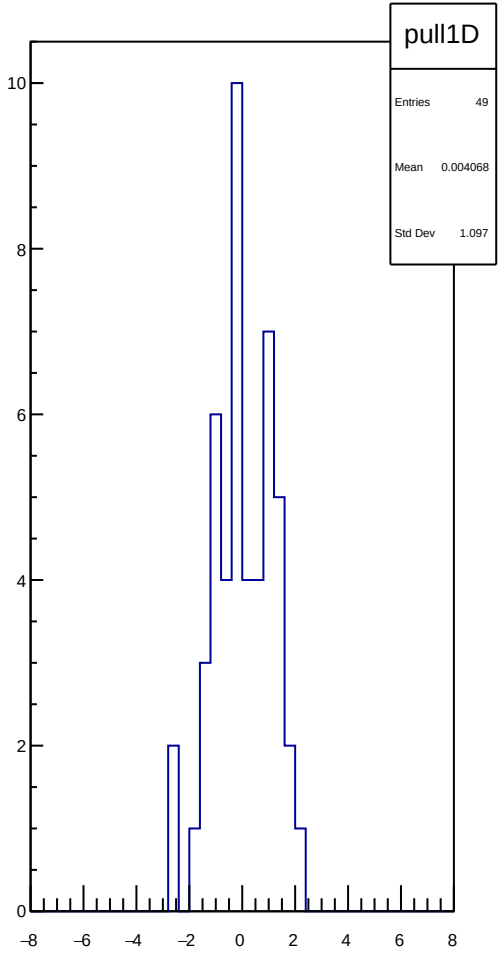

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 52.06 / 48
p0 38.84 ± 2.609
pull
Entries 49
Mean −178.5
Std Dev 211.6

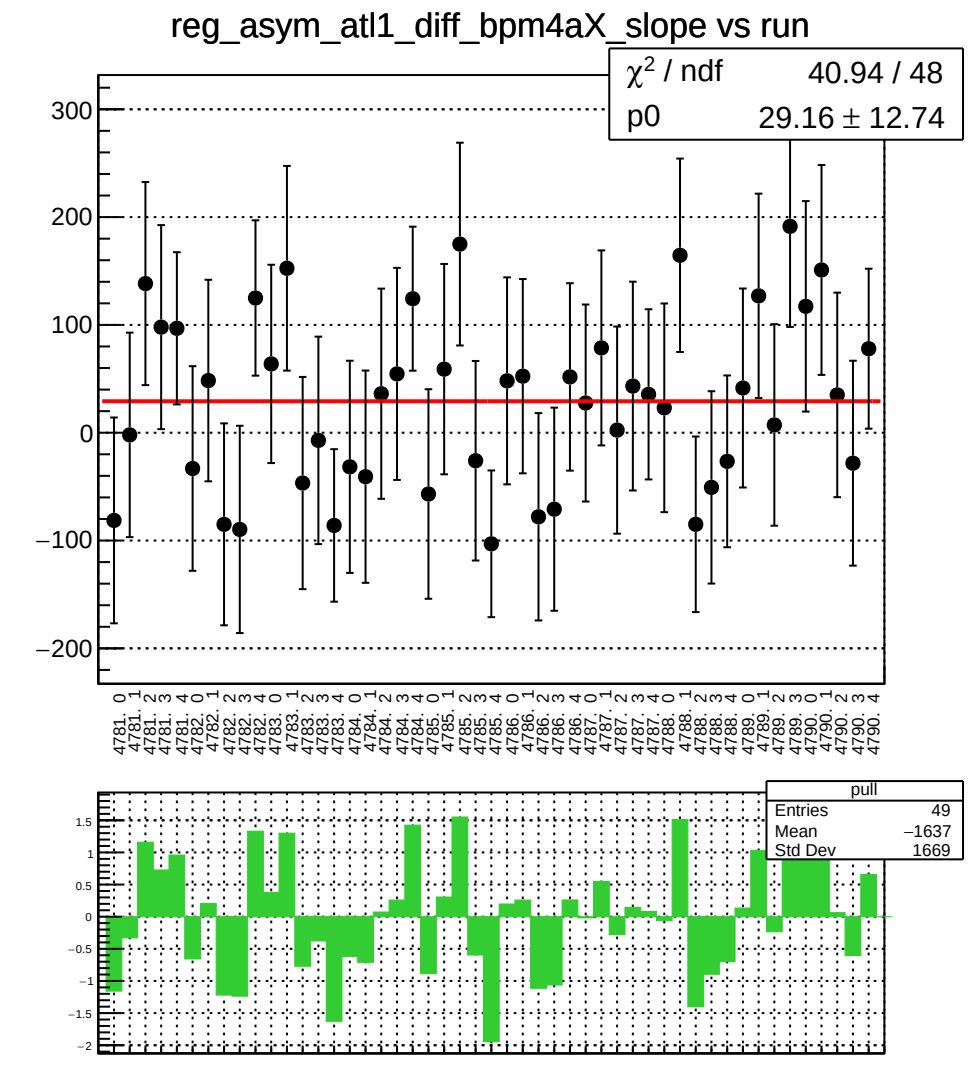

pull1D
Entries 49
Mean −0.01092
Std Dev 1.031

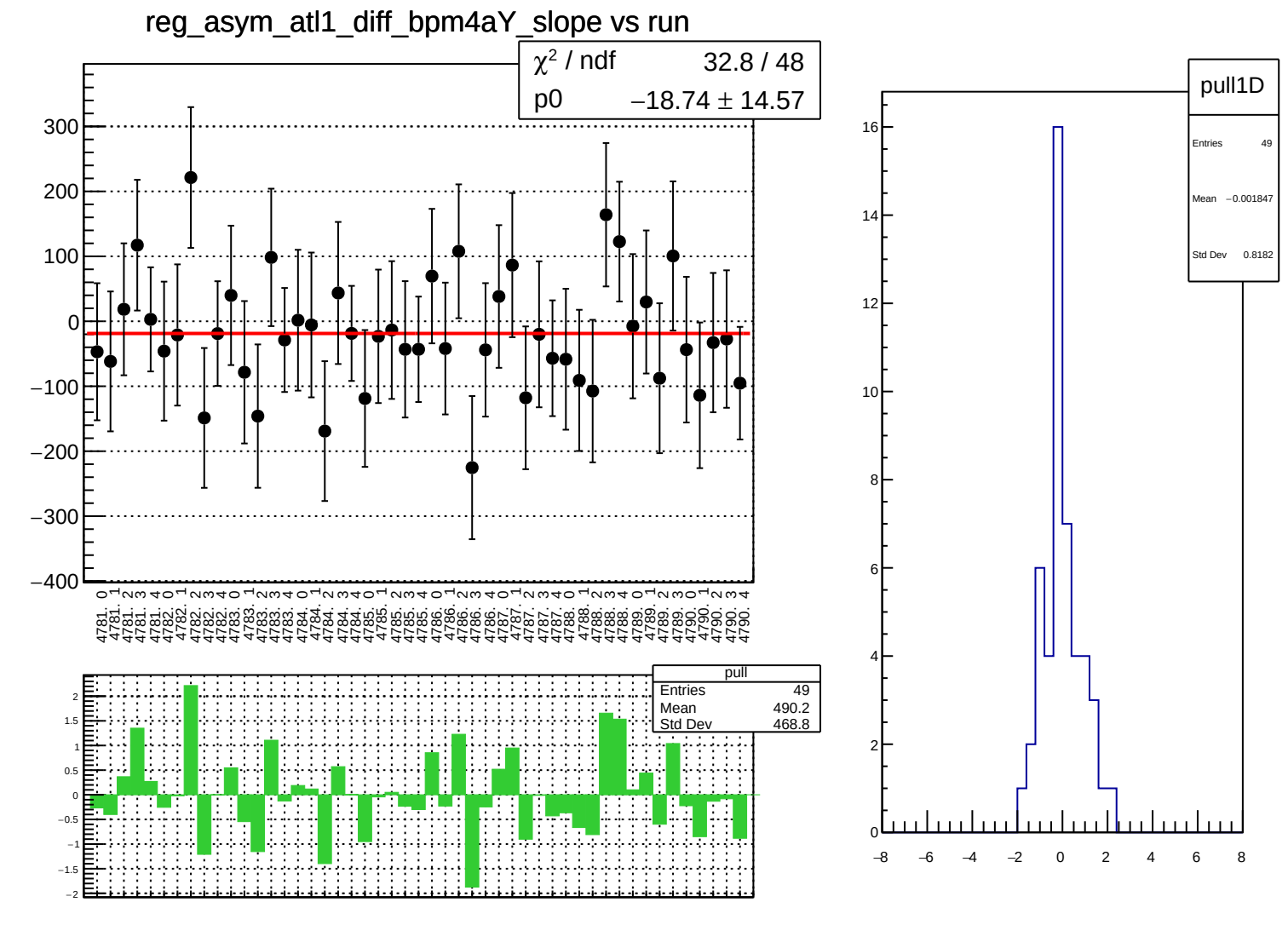

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 42.45 / 48
p0 −52.18 ± 18.67
400
200
0
−200
−400
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 36.57
Std Dev 40.63
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

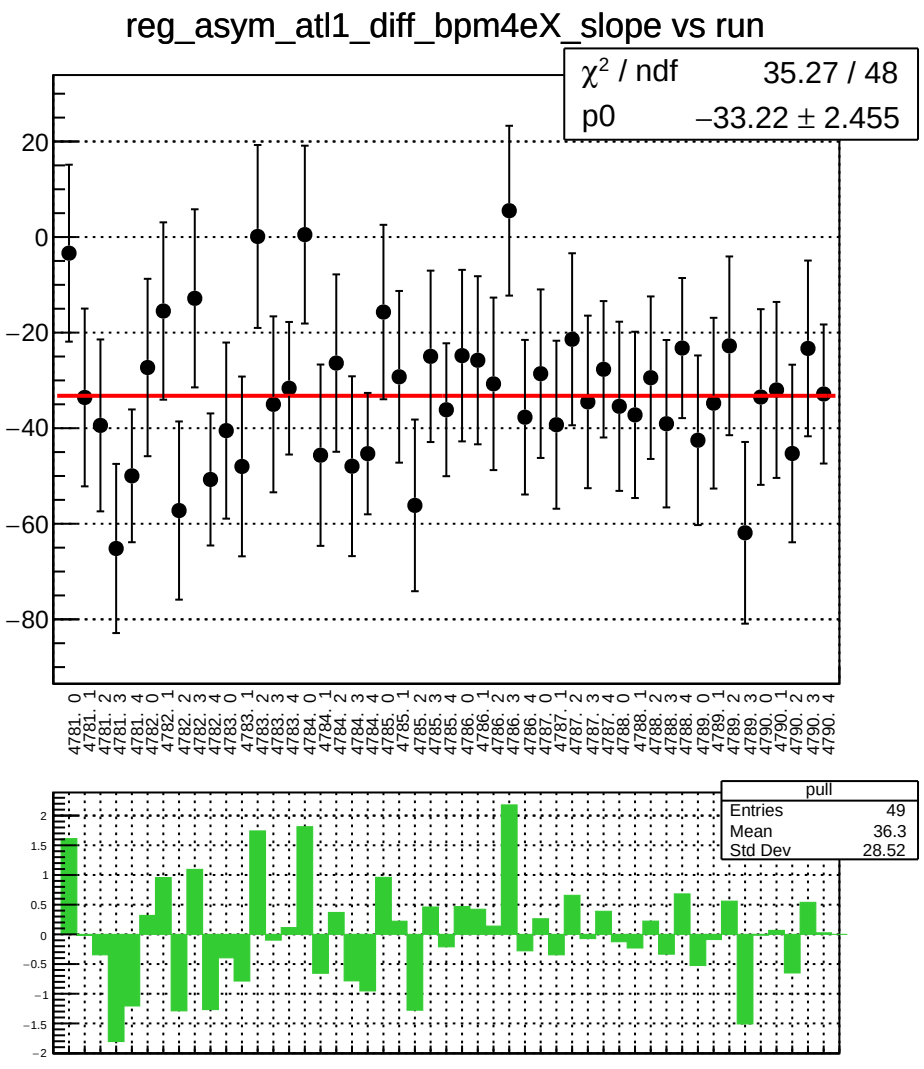

pull1D
Entries 49
Mean −0.02025
Std Dev 0.9305
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

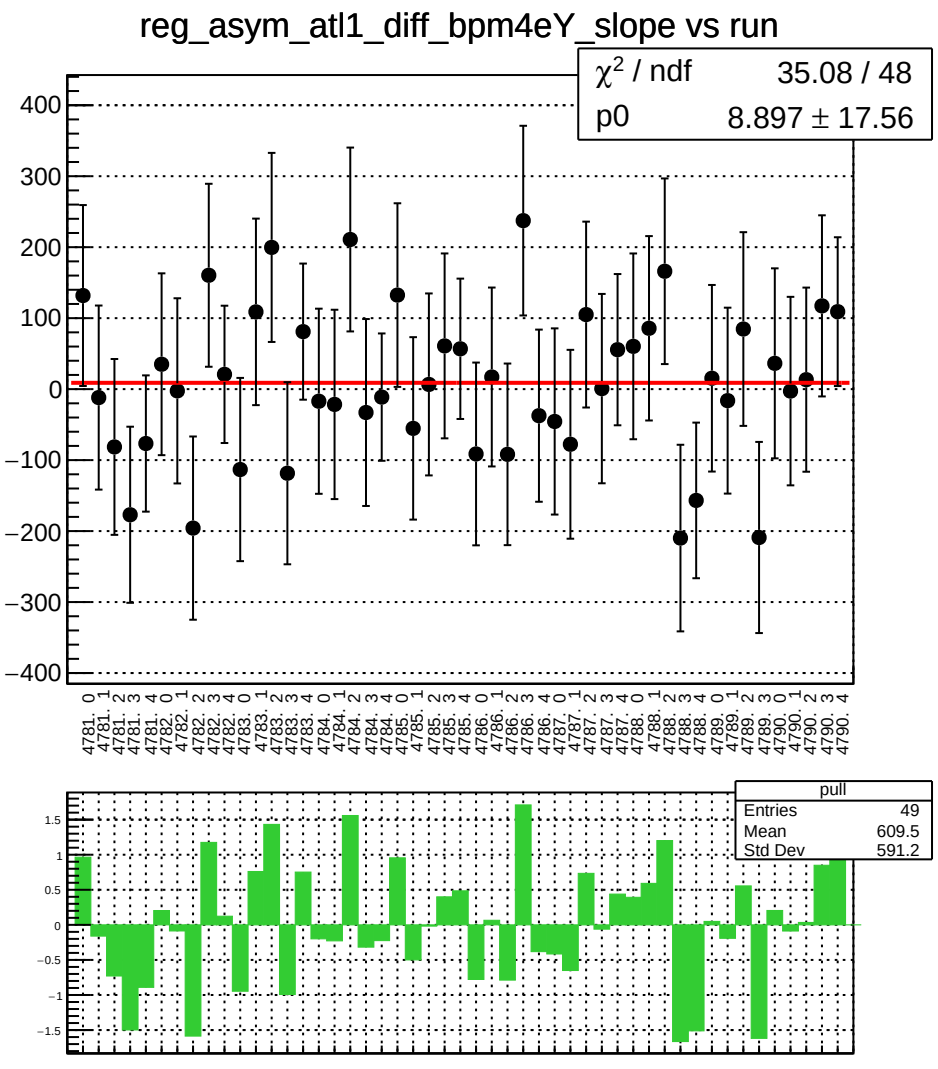

reg_asym_atr1_diff_bpm11X_slope vs run
χ² / ndf 59 / 48
p0 2.474 ± 3.922
100
50
0
−50
−100
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −553.3
Std Dev 566.8
2
1
0
−1
−2

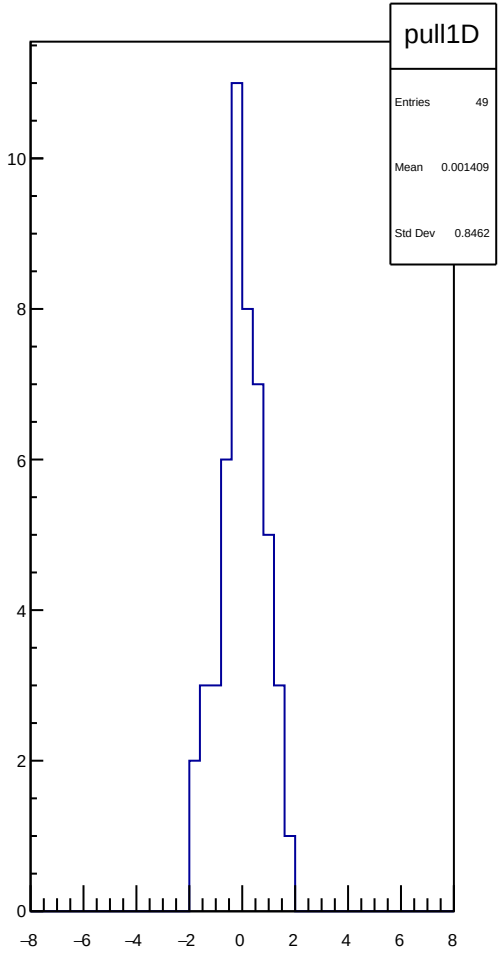

pull1D
Entries 49
Mean 0.004068
Std Dev 1.097
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

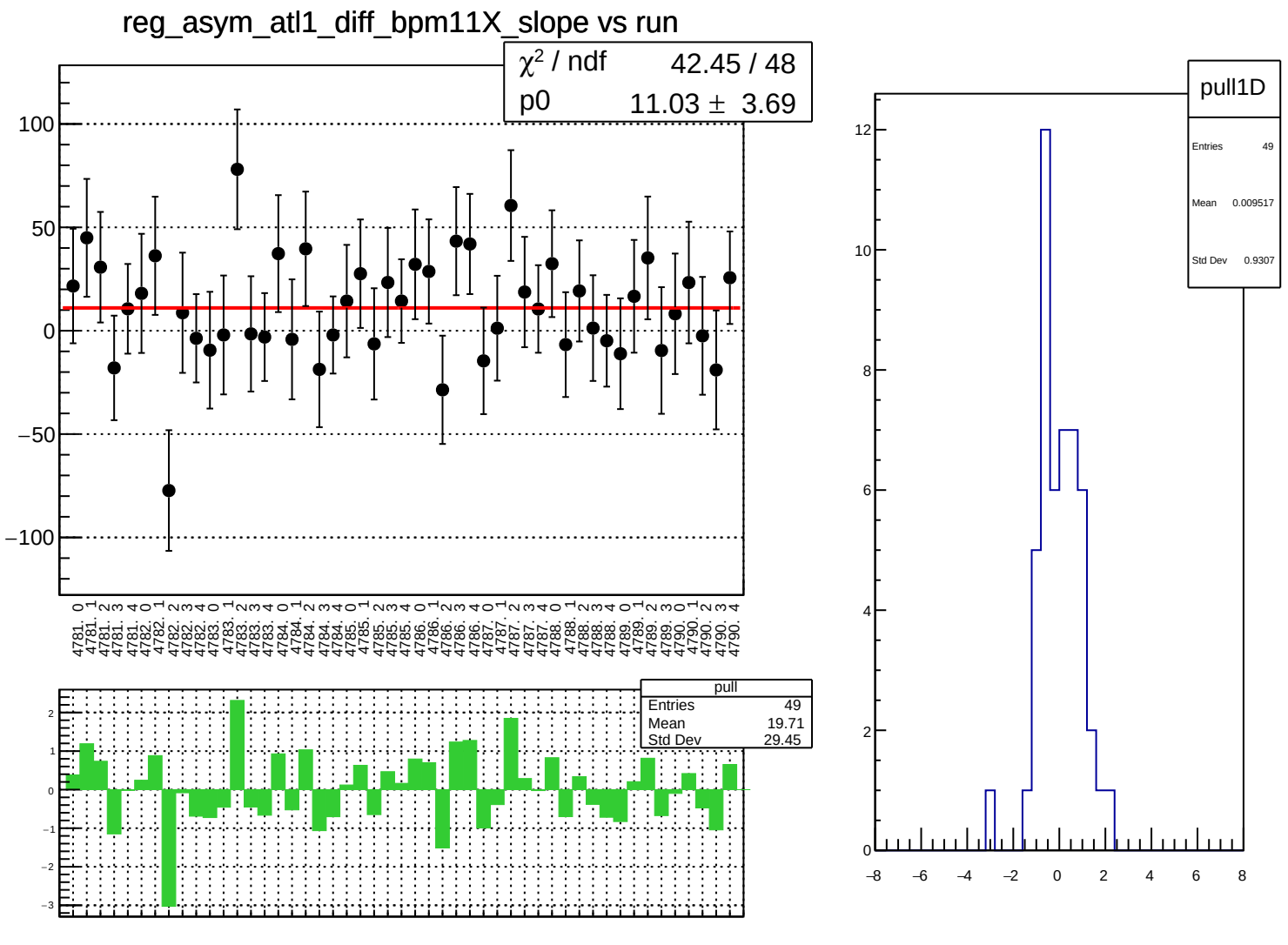

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 40.94 / 48
p0 29.16 ± 12.74
300
200
100
0
−100
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −1637
Std Dev 1669
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean −0.001041
Std Dev 0.9141
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

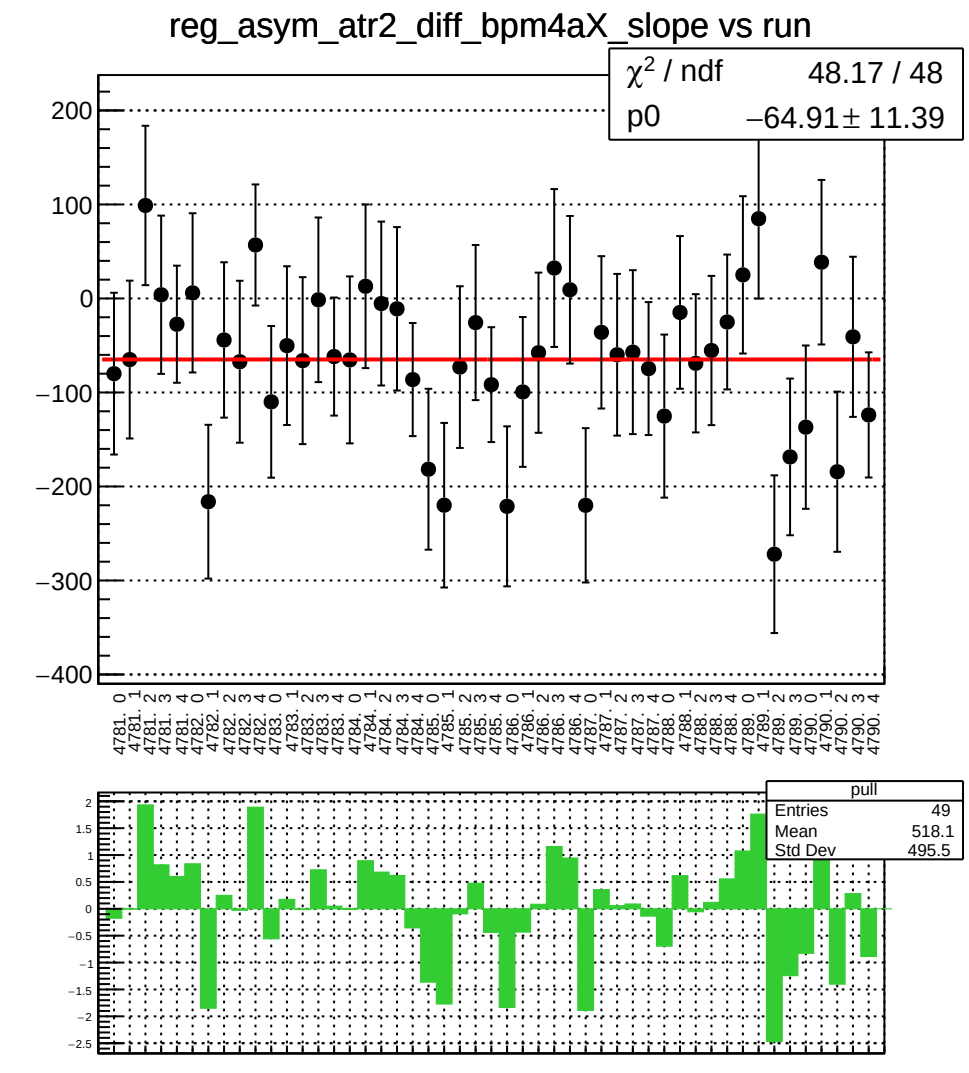

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 32.8 / 48
p0 −18.74 ± 14.57
pull
Entries 49
Mean 490.2
Std Dev 468.8
pull1D
Entries 49
Mean −0.001847
Std Dev 0.8182

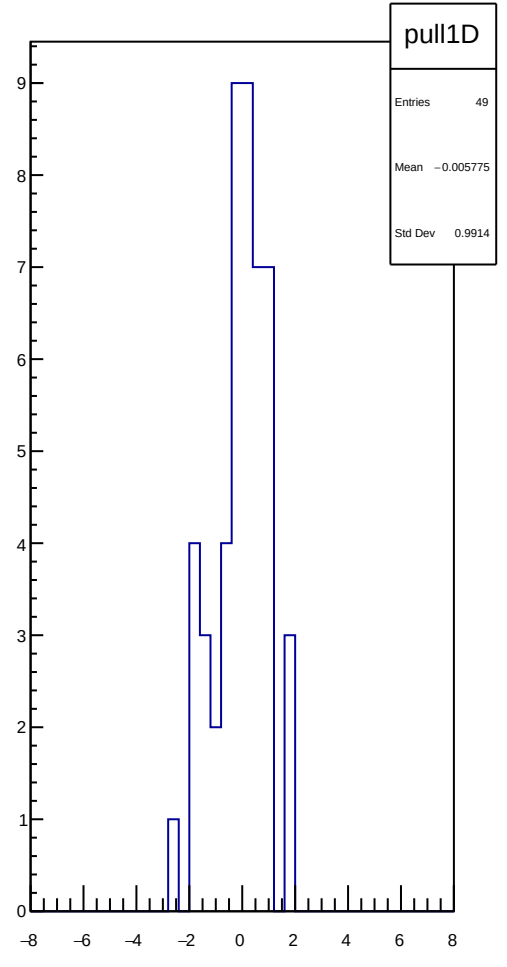

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 35.27 / 48
p0 −33.22 ± 2.455
20
0
−20
−40
−60
−80
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 36.3
Std Dev 28.52
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean 0.02093
Std Dev 0.8481
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

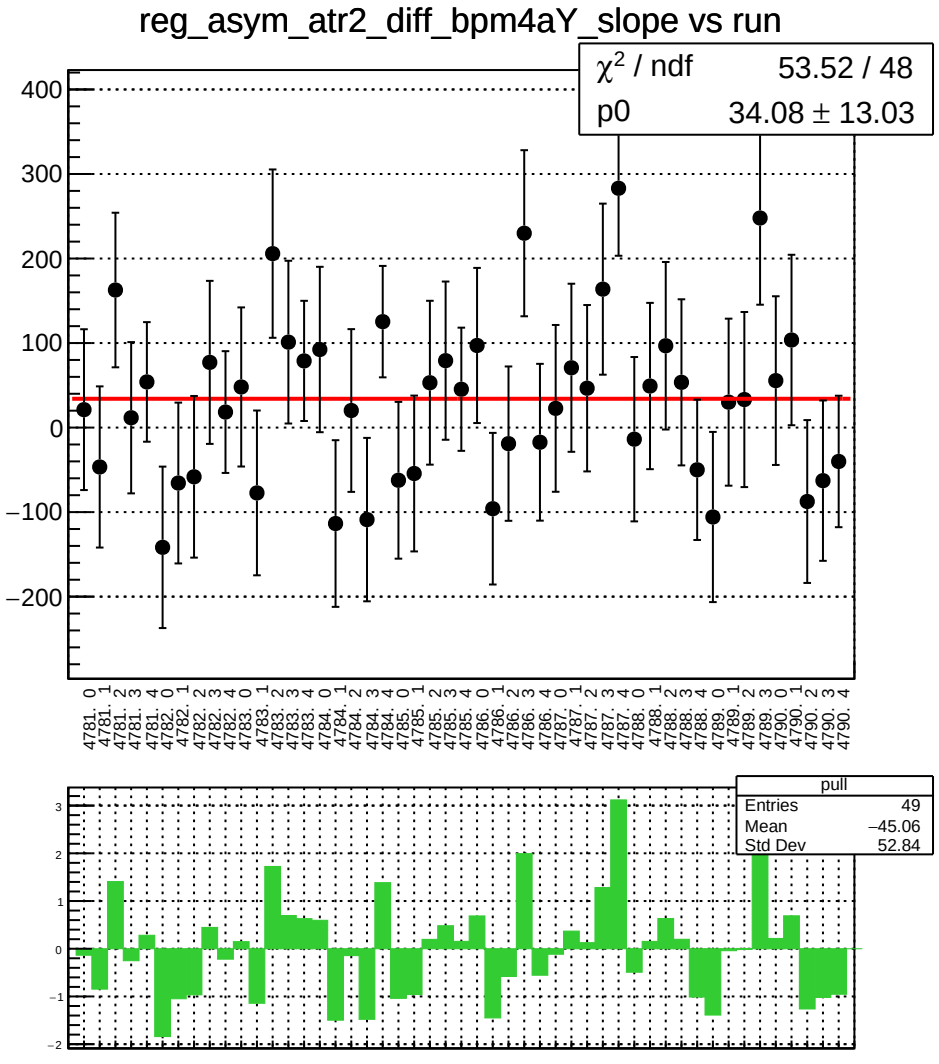

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 35.08 / 48
p0 8.897 ± 17.56
pull
Entries 49
Mean 609.5
Std Dev 591.2

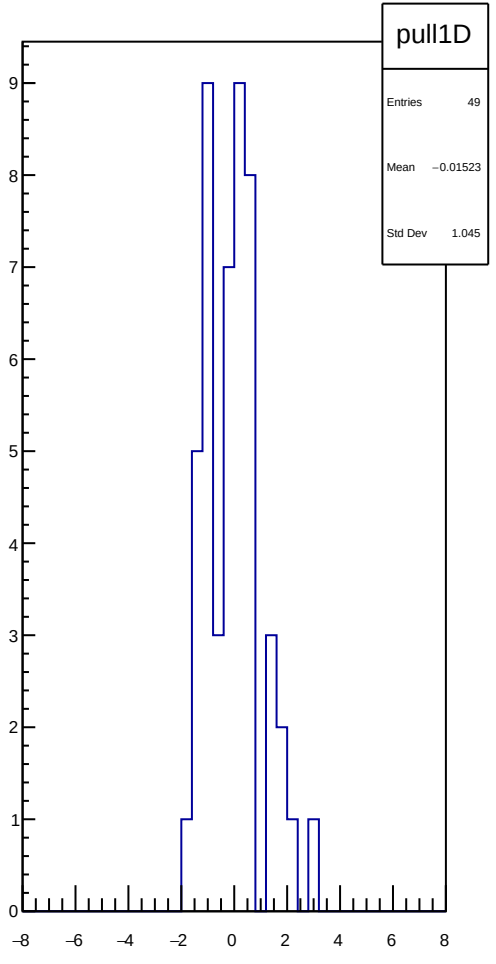

pull1D
Entries 49
Mean 0.001409
Std Dev 0.8462

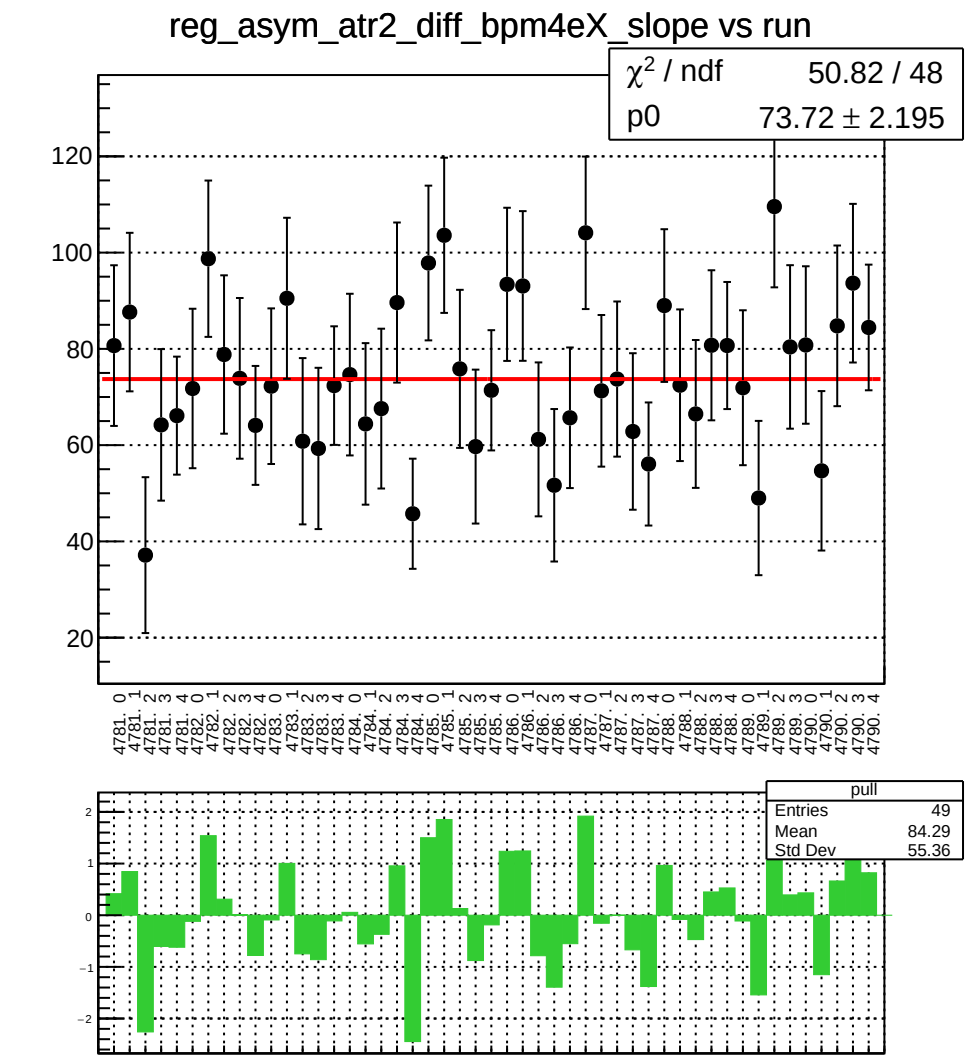

reg_asym_atl1_diff_bpm11X_slope vs run
χ² / ndf 42.45 / 48
p0 11.03 ± 3.69
100
50
0
−50
−100
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 19.71
Std Dev 29.45
2
1
0
−1
−2
−3
pull1D
Entries 49
Mean 0.009517
Std Dev 0.9307
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

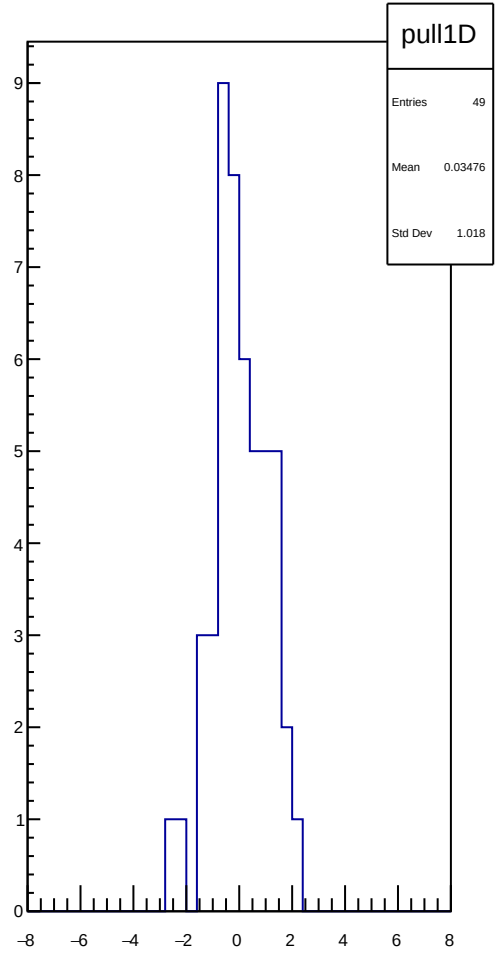

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 48.17 / 48
p0 −64.91 ± 11.39
pull
Entries 49
Mean 518.1
Std Dev 495.5

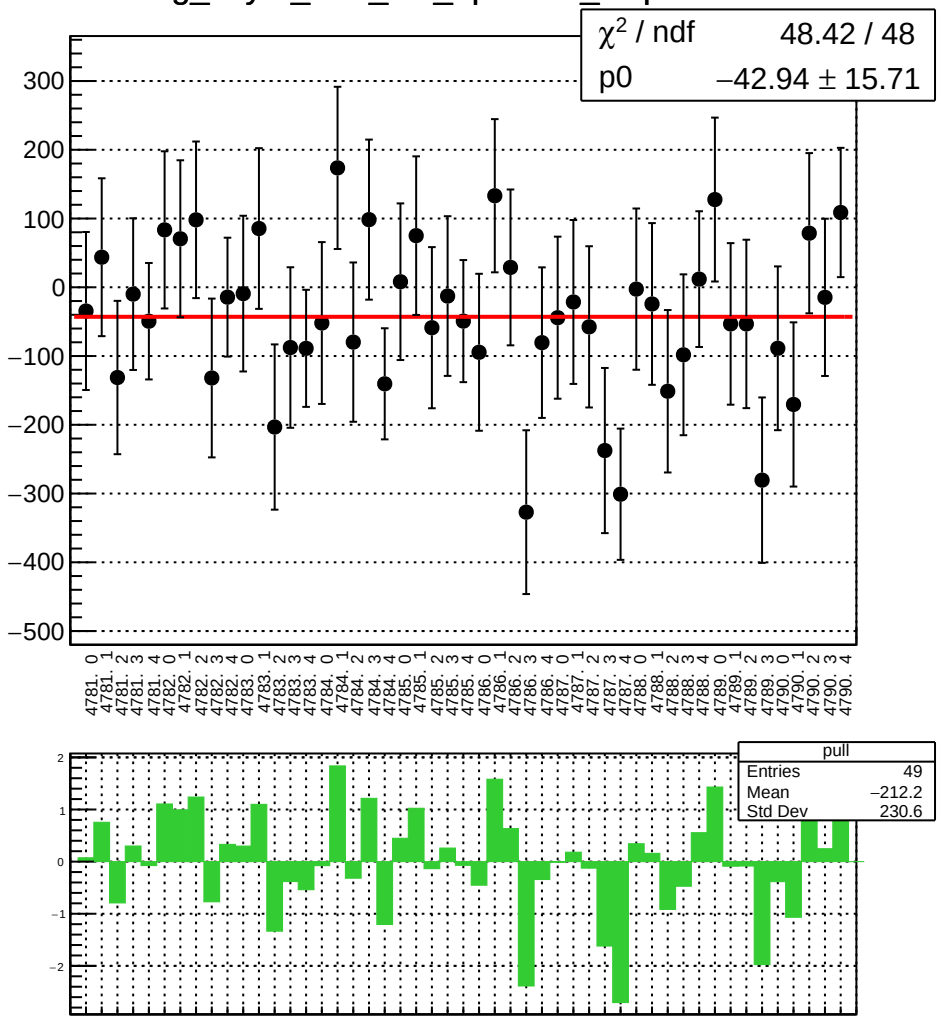

pull1D
Entries 49
Mean −0.005775
Std Dev 0.9914

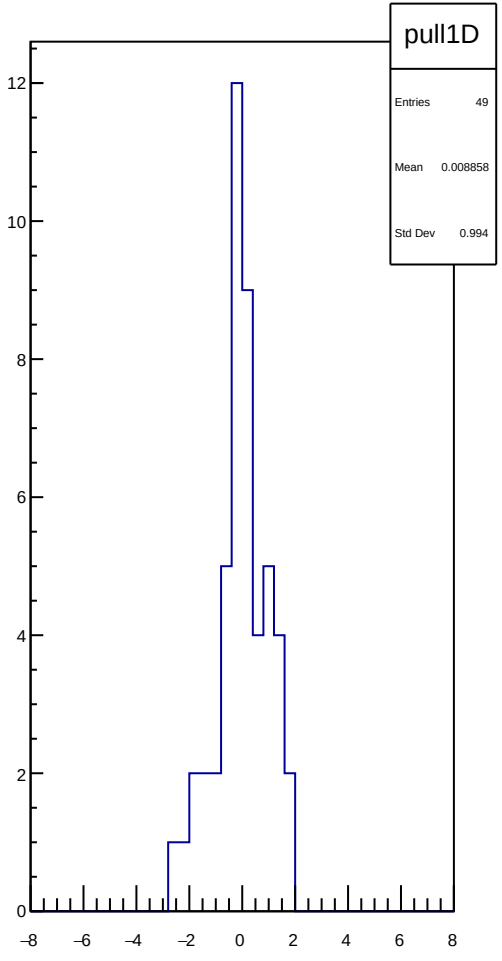

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 53.52 / 48
p0 34.08 ± 13.03
pull
Entries 49
Mean −45.06
Std Dev 52.84

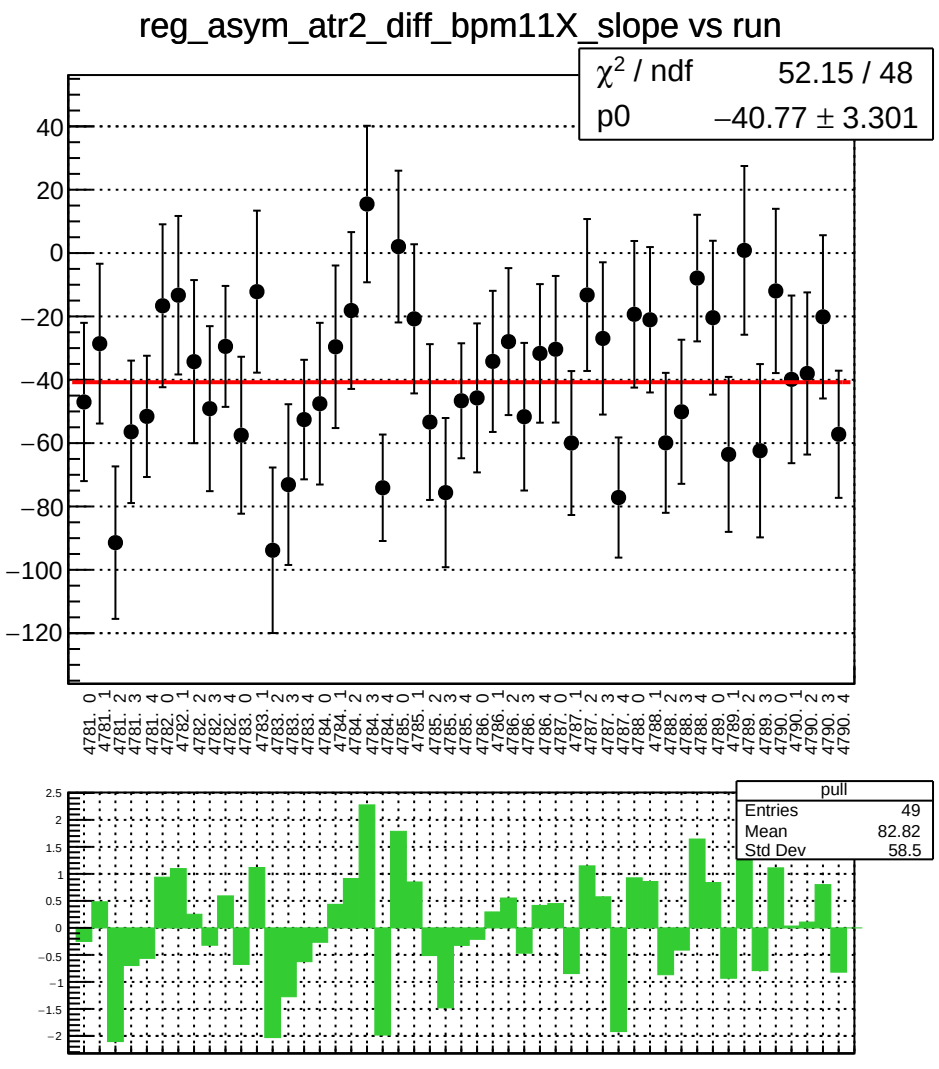

pull1D
Entries 49
Mean −0.01523
Std Dev 1.045

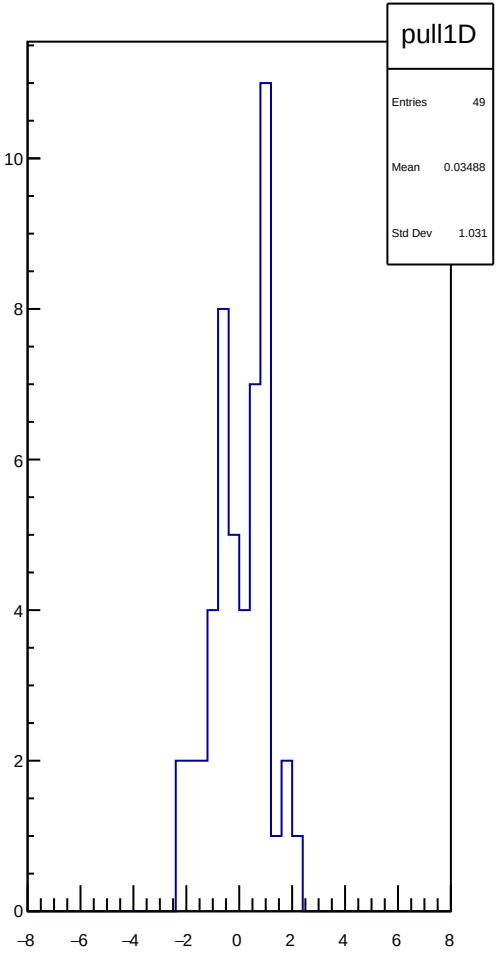

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 50.82 / 48
p0 73.72 ± 2.195
pull
Entries 49
Mean 84.29
Std Dev 55.36

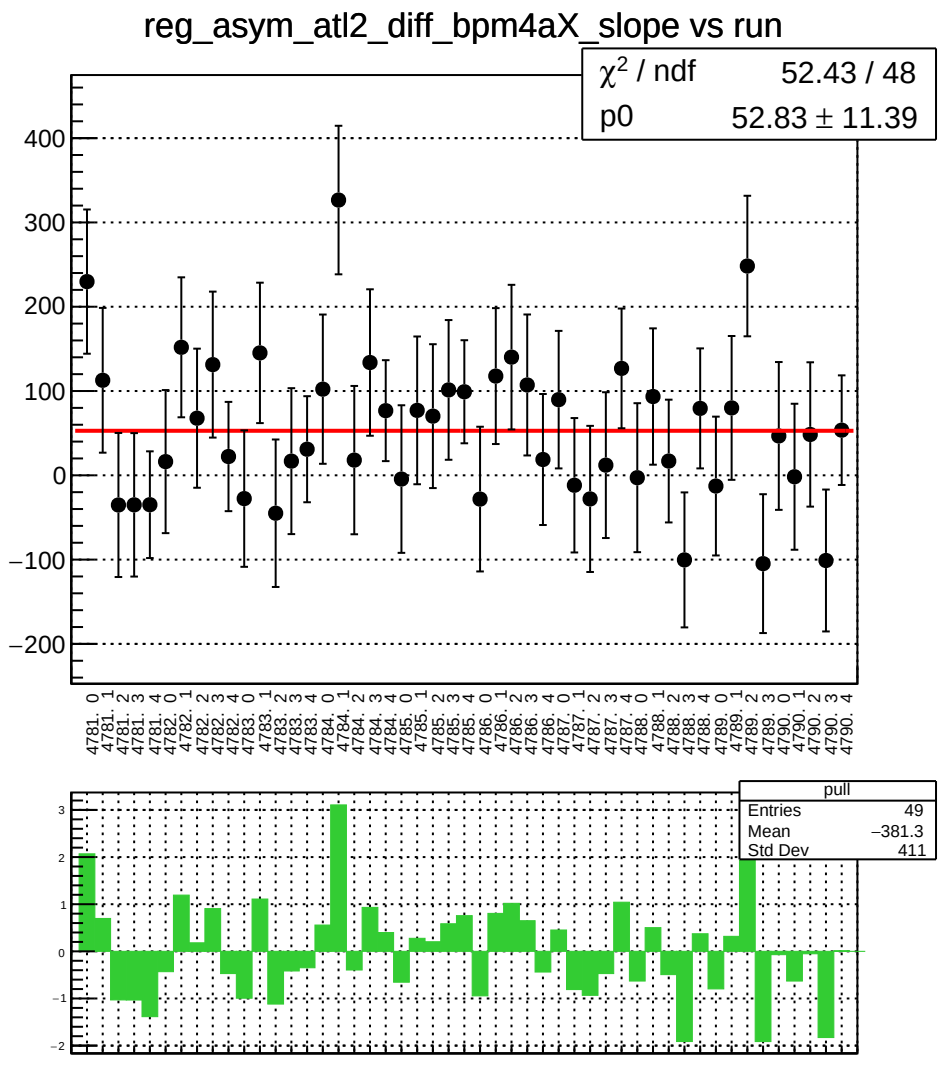

pull1D
Entries 49
Mean 0.03476
Std Dev 1.018

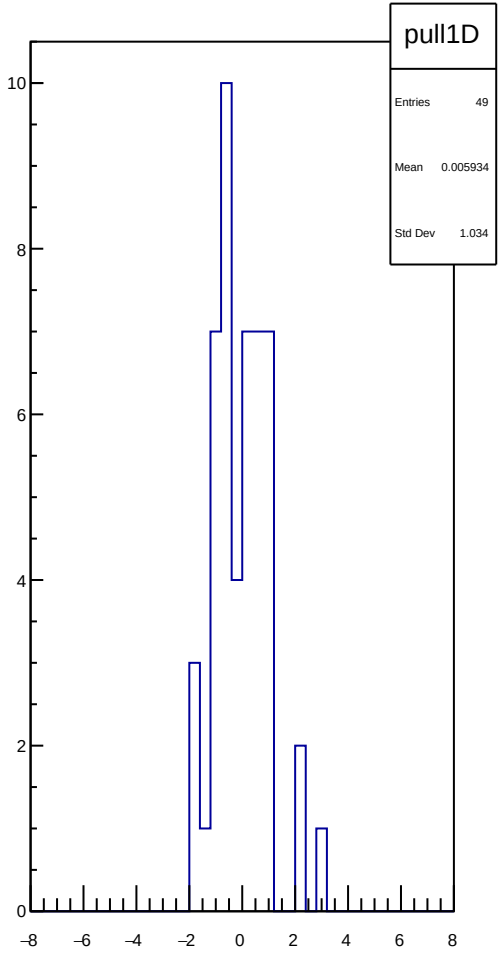

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 48.42 / 48
p0 −42.94 ± 15.71
pull
Entries 49
Mean −212.2
Std Dev 230.6

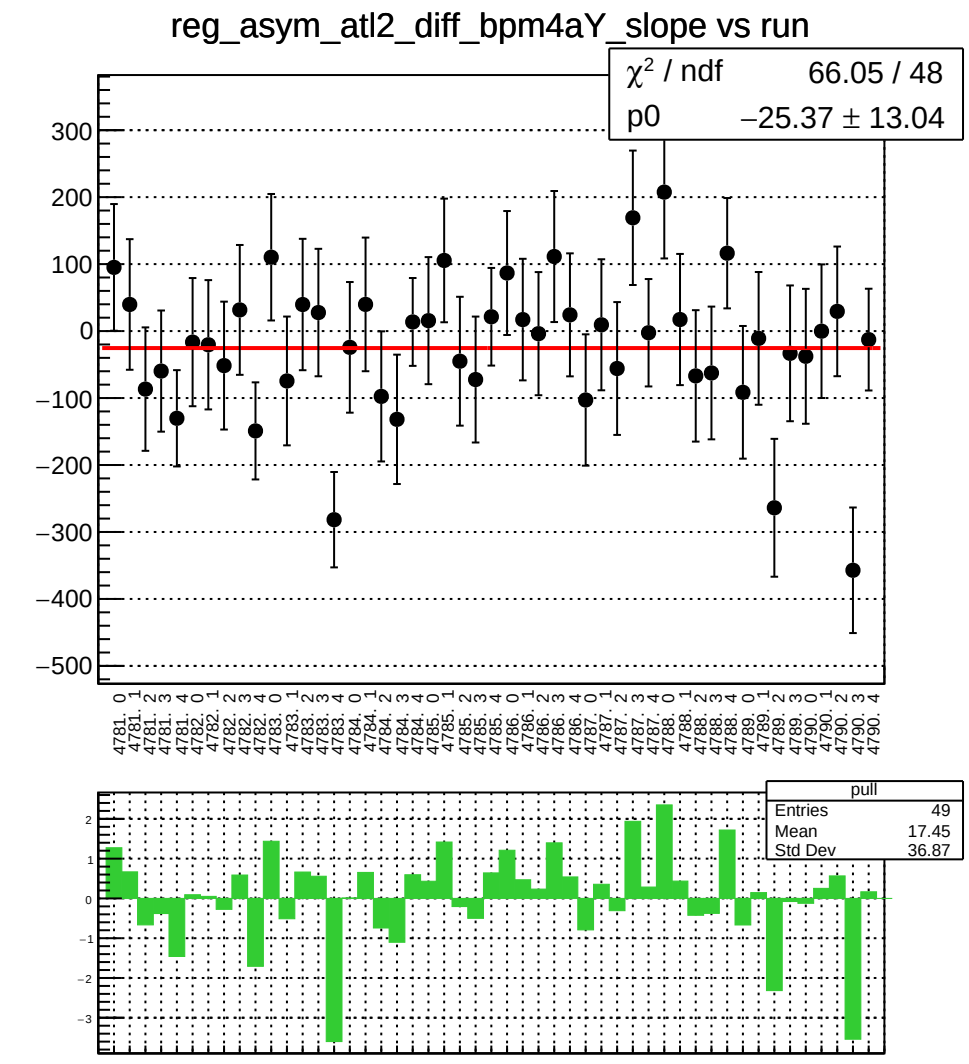

pull1D
Entries 49
Mean 0.008858
Std Dev 0.994

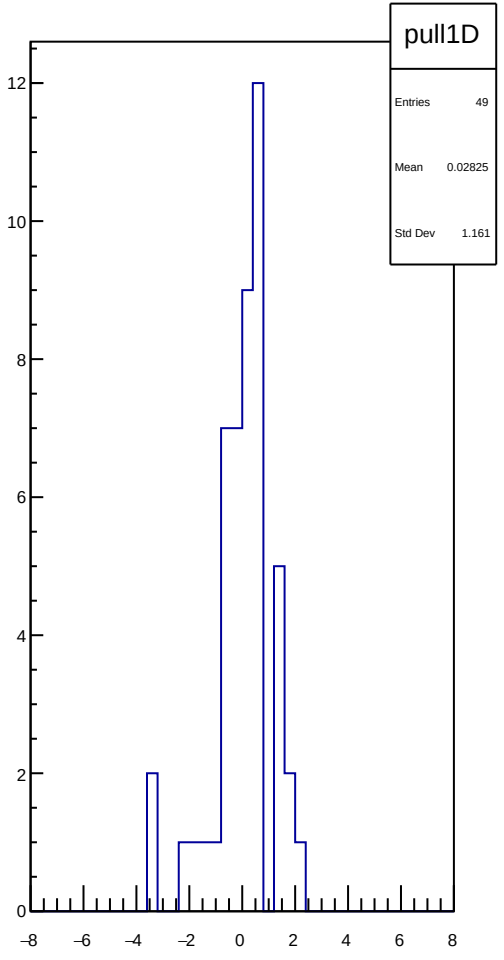

reg_asym_atr2_diff_bpm11X_slope vs run
χ² / ndf 52.15 / 48
p0 −40.77 ± 3.301
pull
Entries 49
Mean 82.82
Std Dev 58.5

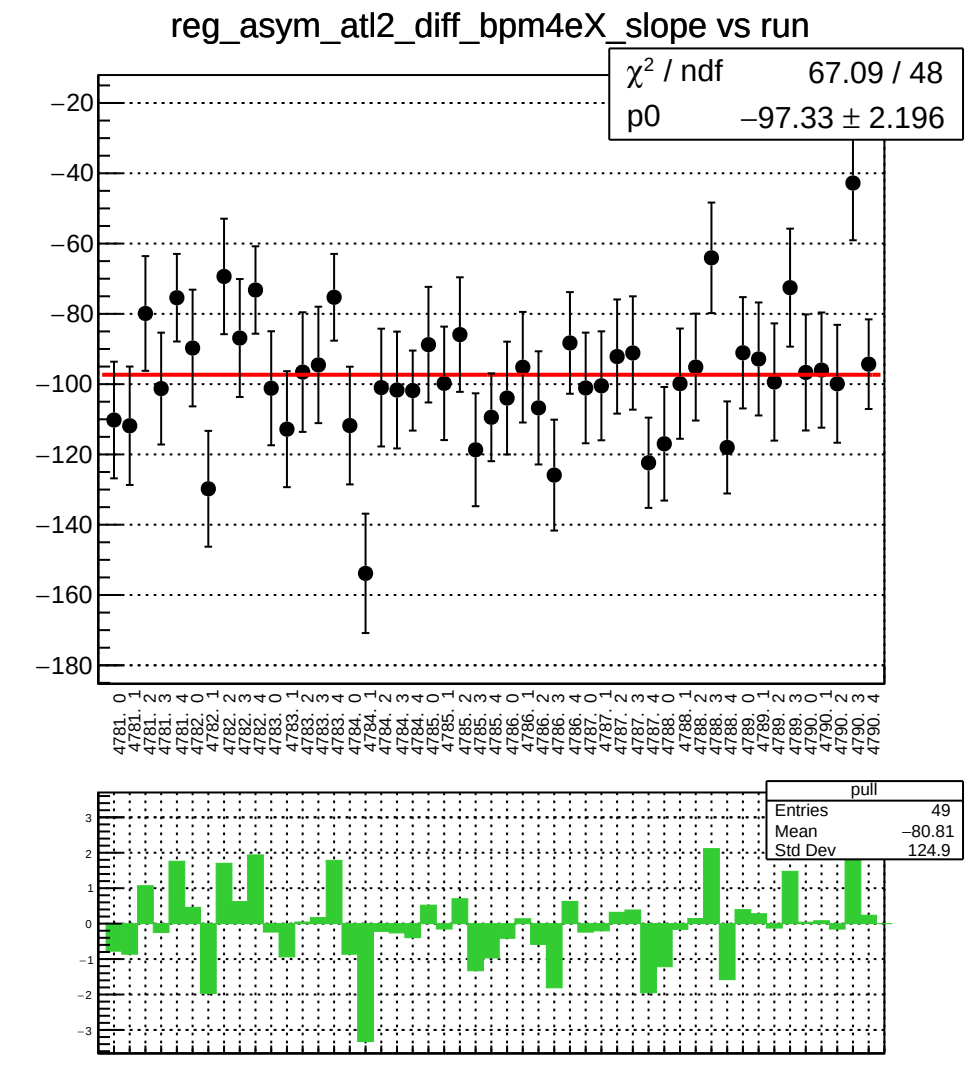

pull1D
Entries 49
Mean 0.03488
Std Dev 1.031

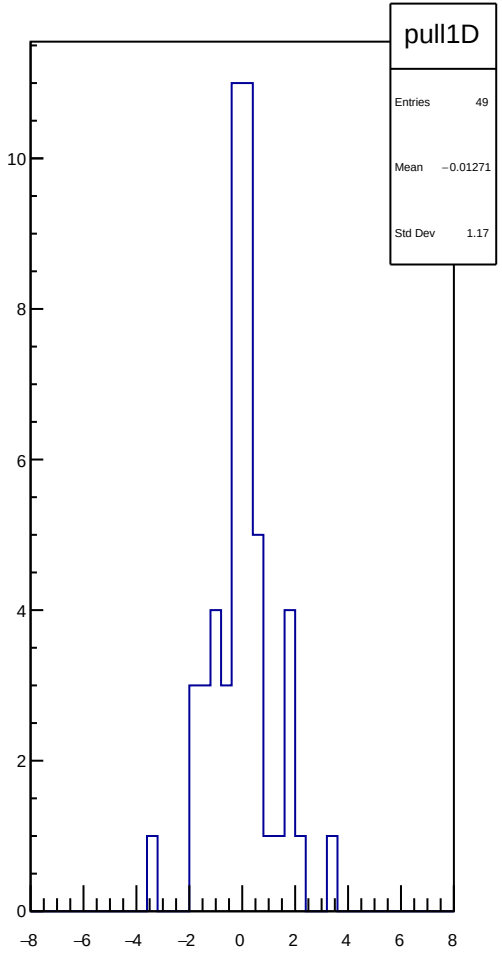

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 52.43 / 48
p0 52.83 ± 11.39
pull
Entries 49
Mean −381.3
Std Dev 411

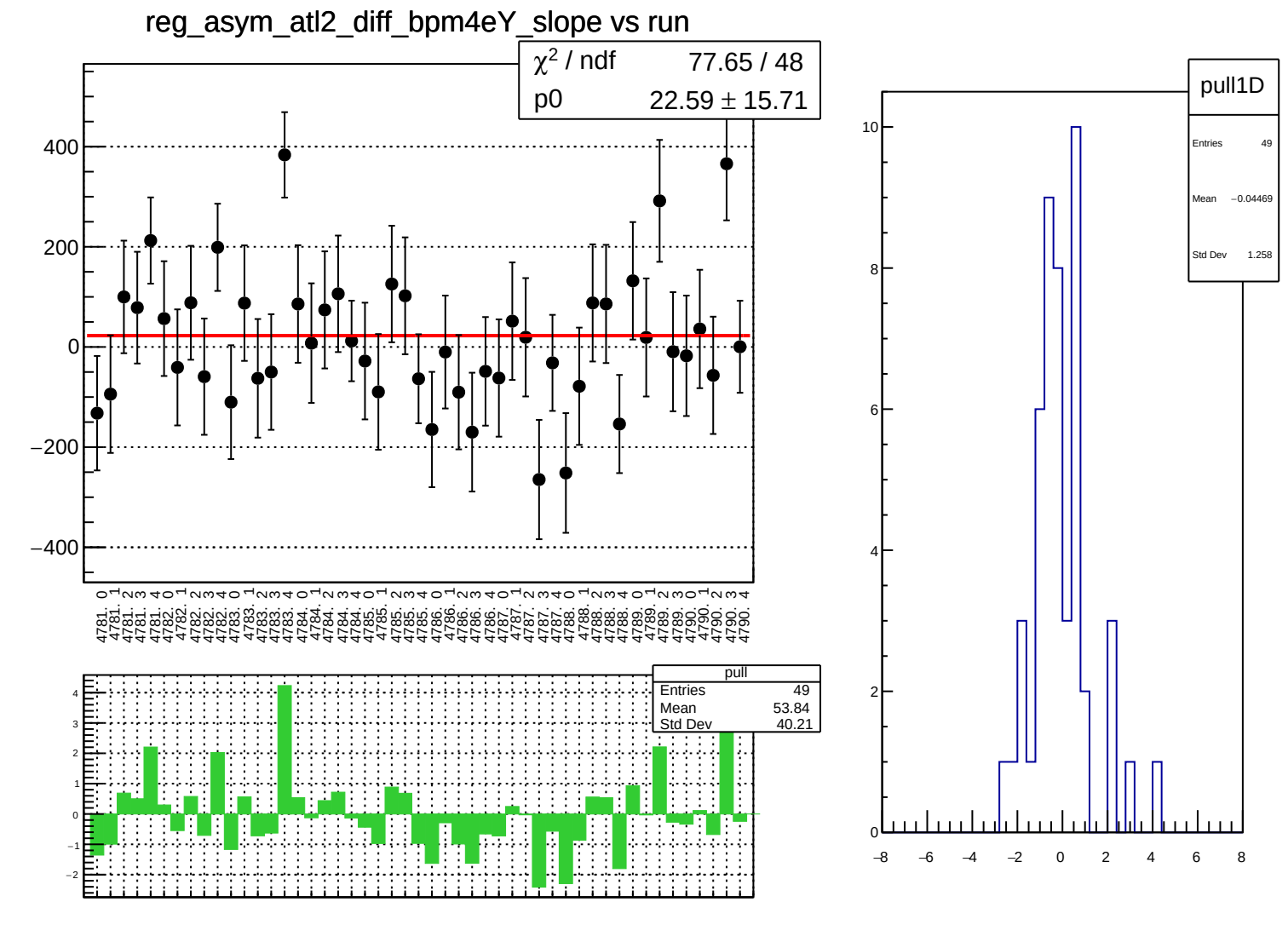

pull1D
Entries 49
Mean 0.005934
Std Dev 1.034

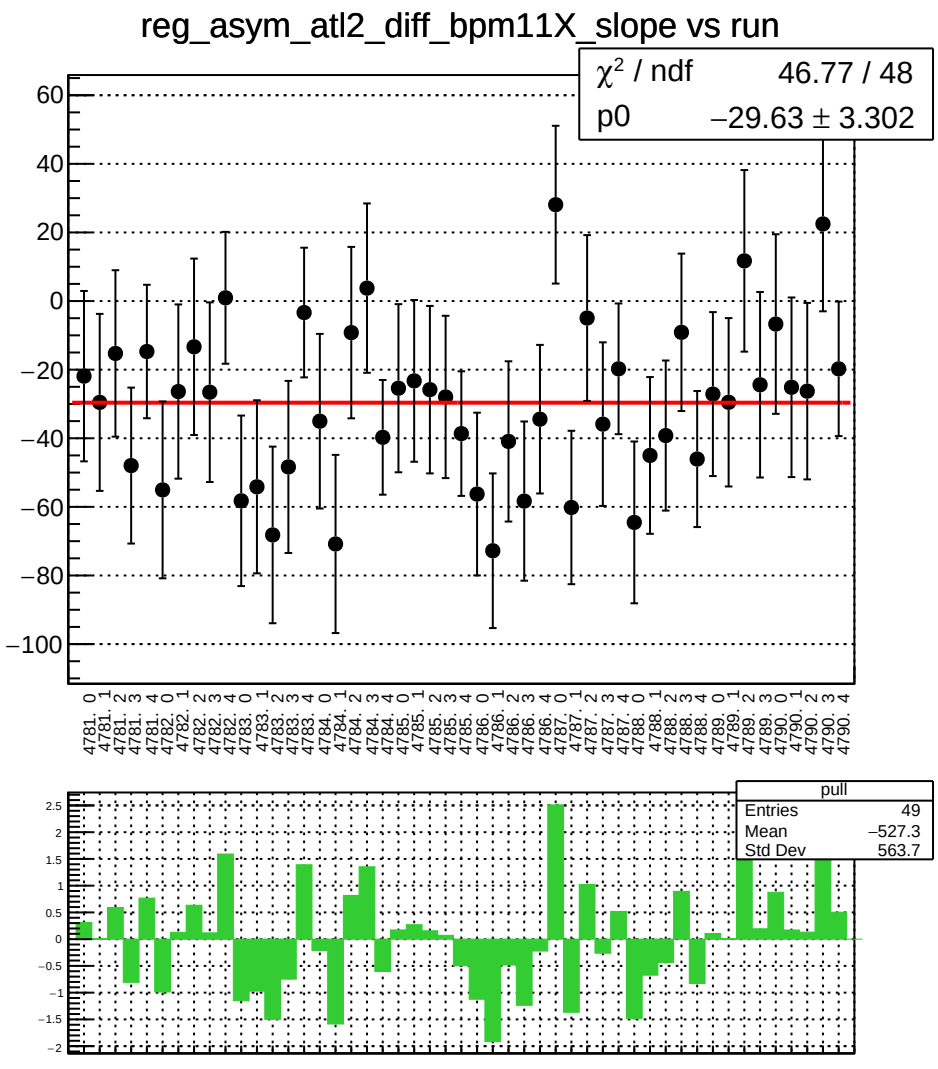

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 66.05 / 48
p0 −25.37 ± 13.04
pull
Entries 49
Mean 17.45
Std Dev 36.87

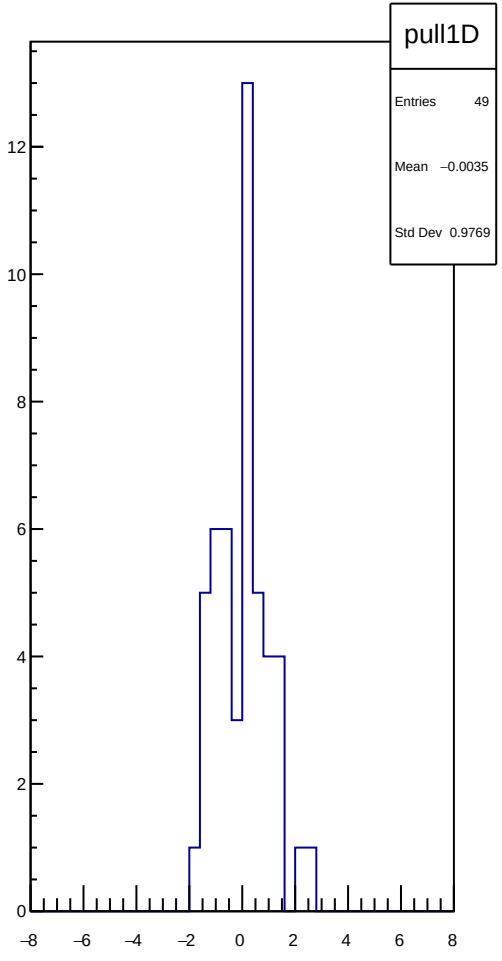

pull1D
Entries 49
Mean 0.02825
Std Dev 1.161

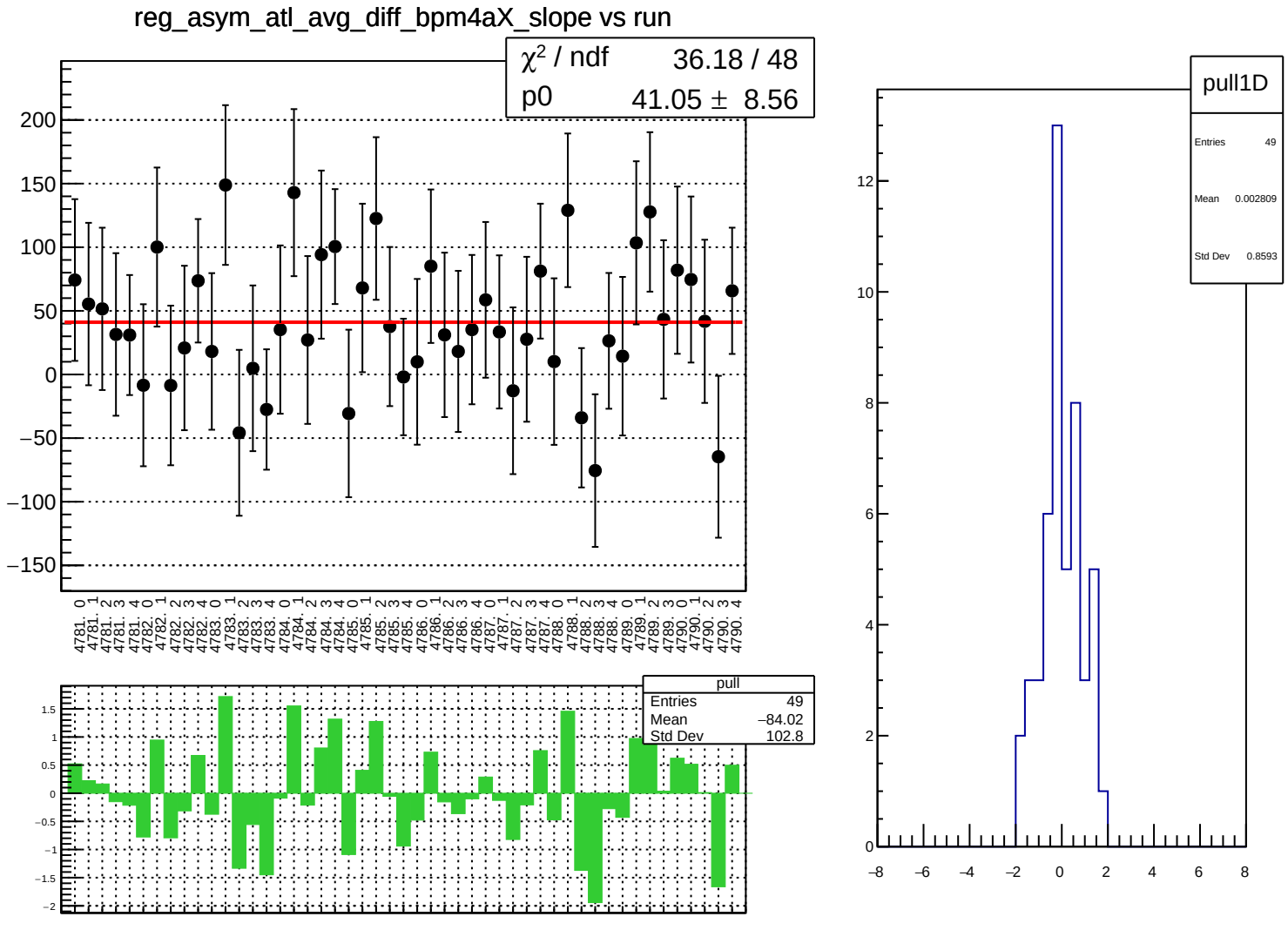

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 67.09 / 48
p0 −97.33 ± 2.196
pull
Entries 49
Mean −80.81
Std Dev 124.9

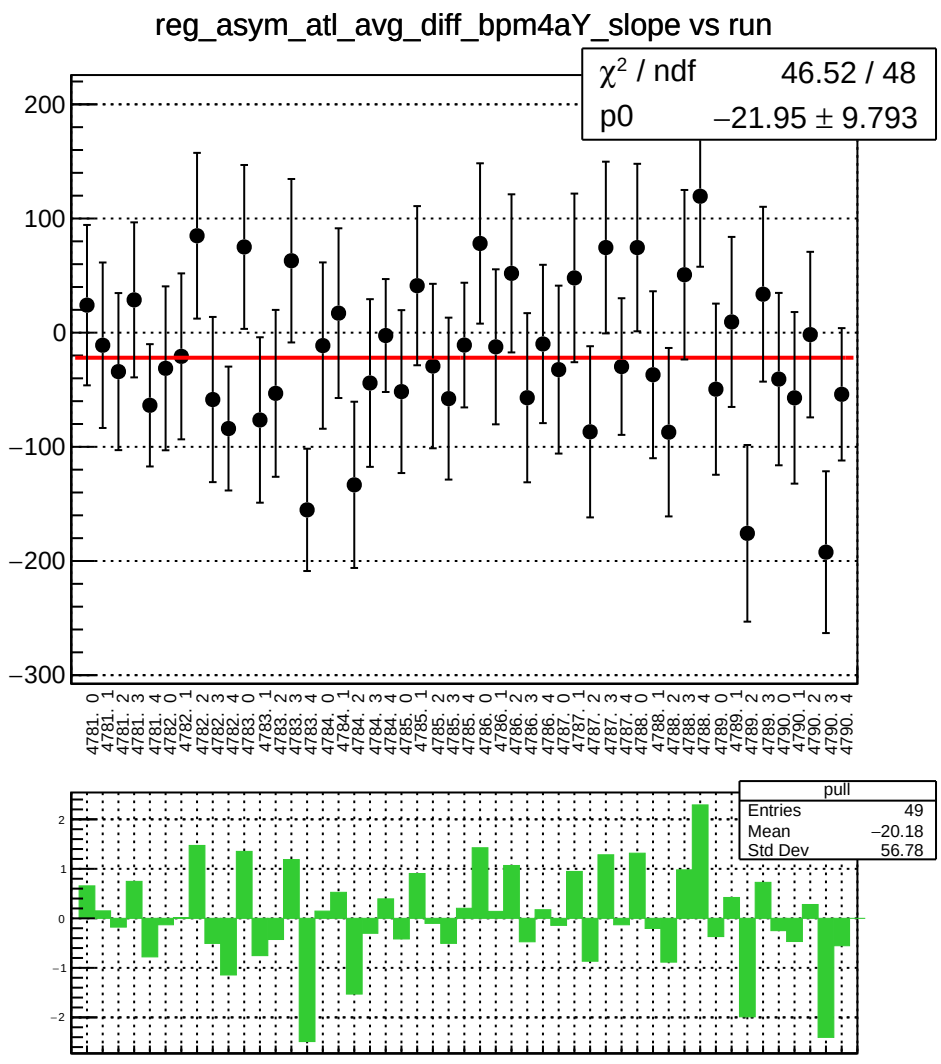

pull1D
Entries 49
Mean −0.01271
Std Dev 1.17

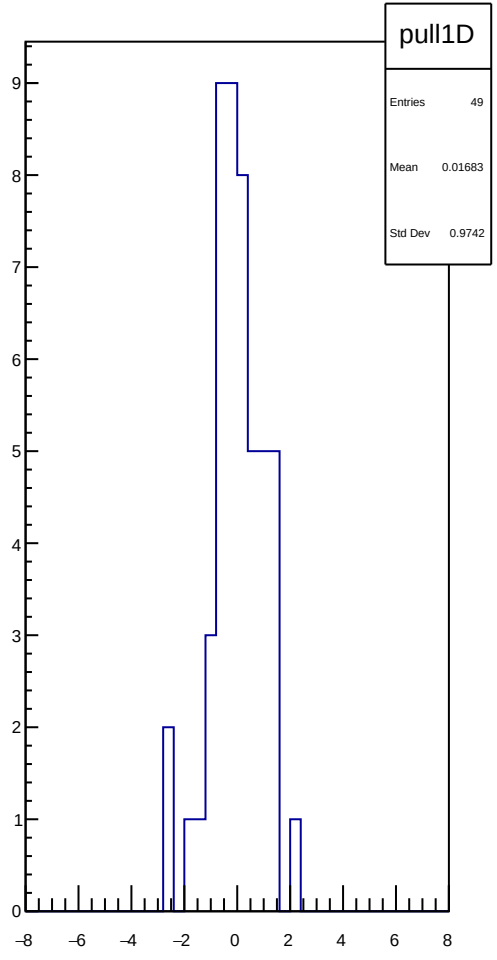

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 77.65 / 48
p0 22.59 ± 15.71
400
200
0
−200
−400
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 53.84
Std Dev 40.21
4
3
2
1
0
−1
−2
pull1D
Entries 49
Mean −0.04469
Std Dev 1.258
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

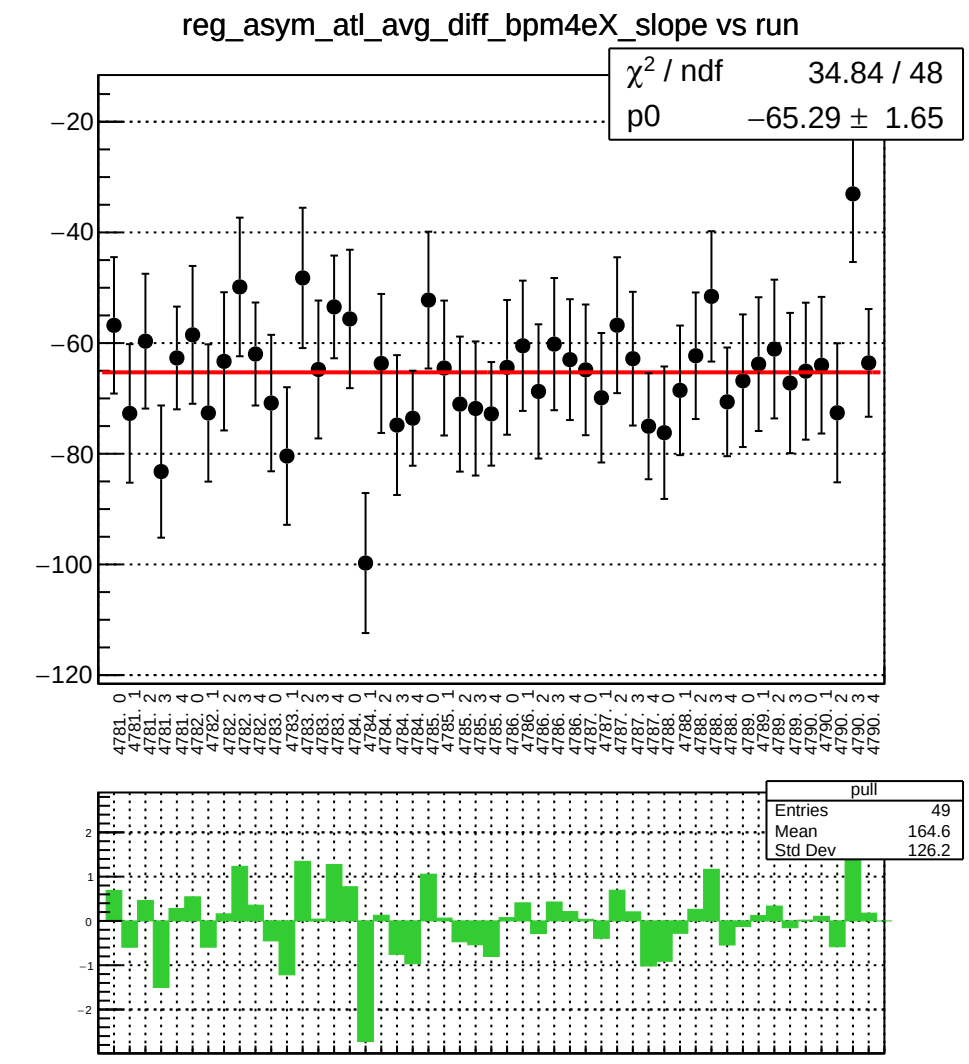

reg_asym_atl2_diff_bpm11X_slope vs run
χ² / ndf 46.77 / 48
p0 −29.63 ± 3.302
pull
Entries 49
Mean −527.3
Std Dev 563.7

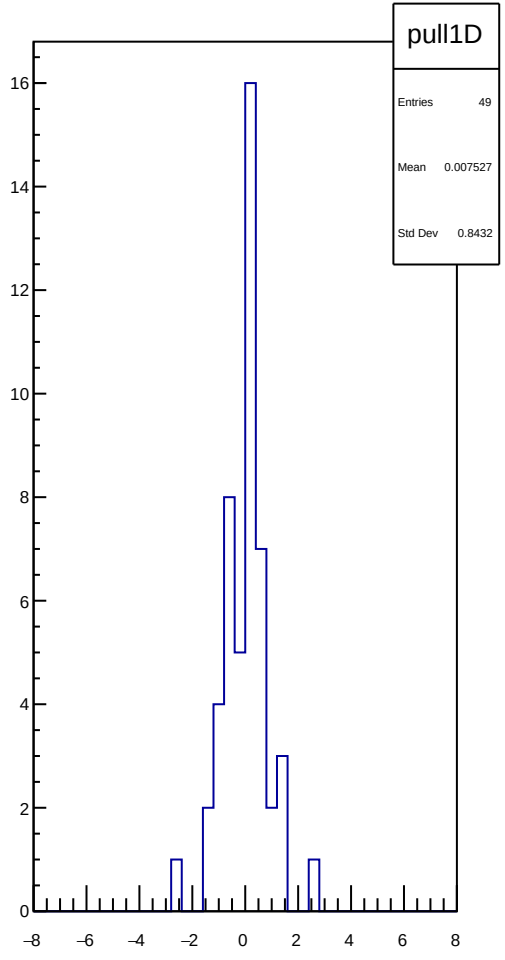

pull1D
Entries 49
Mean −0.0035
Std Dev 0.9769

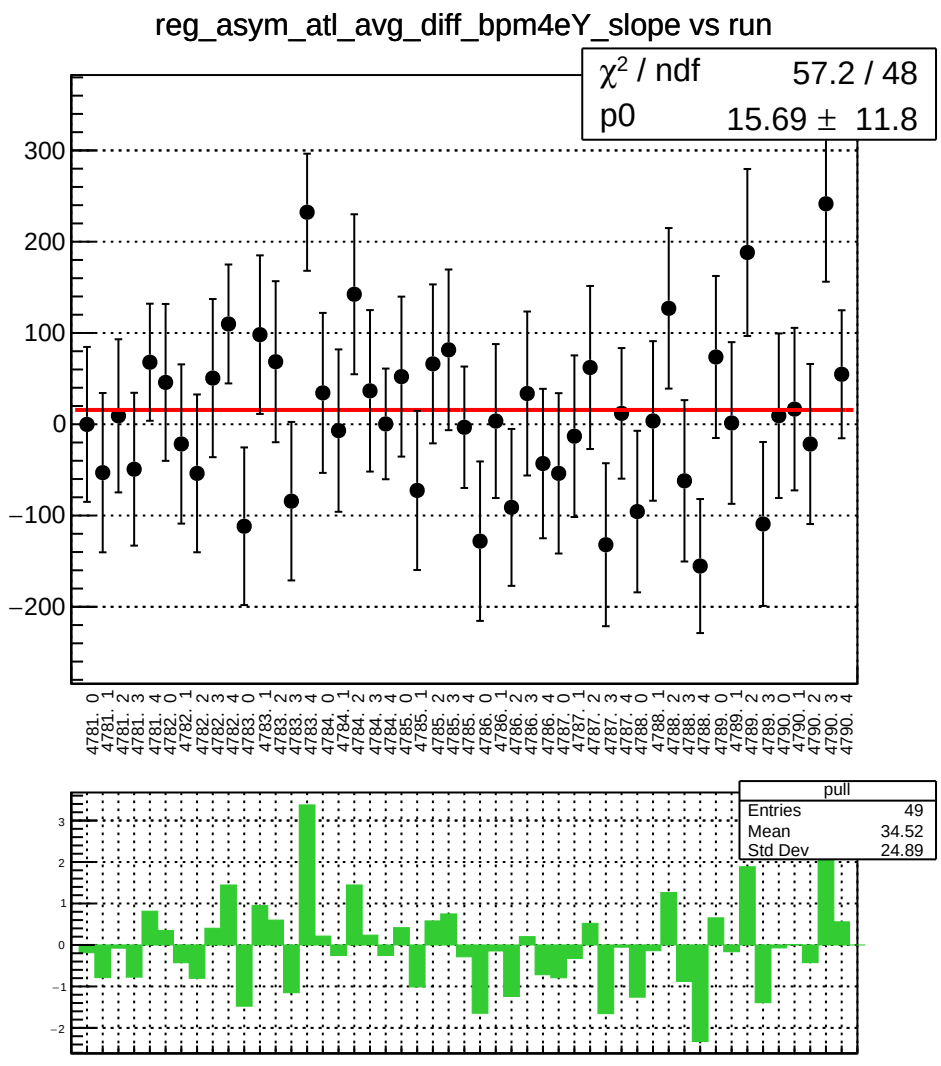

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 36.18 / 48
p0 41.05 ± 8.56
pull
Entries 49
Mean −84.02
Std Dev 102.8
pull1D
Entries 49
Mean 0.002809
Std Dev 0.8593

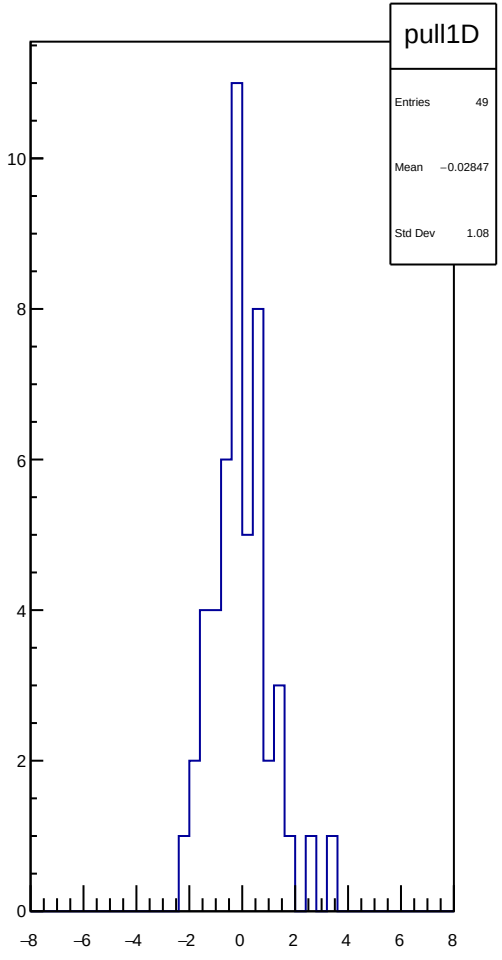

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 46.52 / 48
p0 −21.95 ± 9.793
200
100
0
−100
−200
−300
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −20.18
Std Dev 56.78
2
1
0
−1
−2

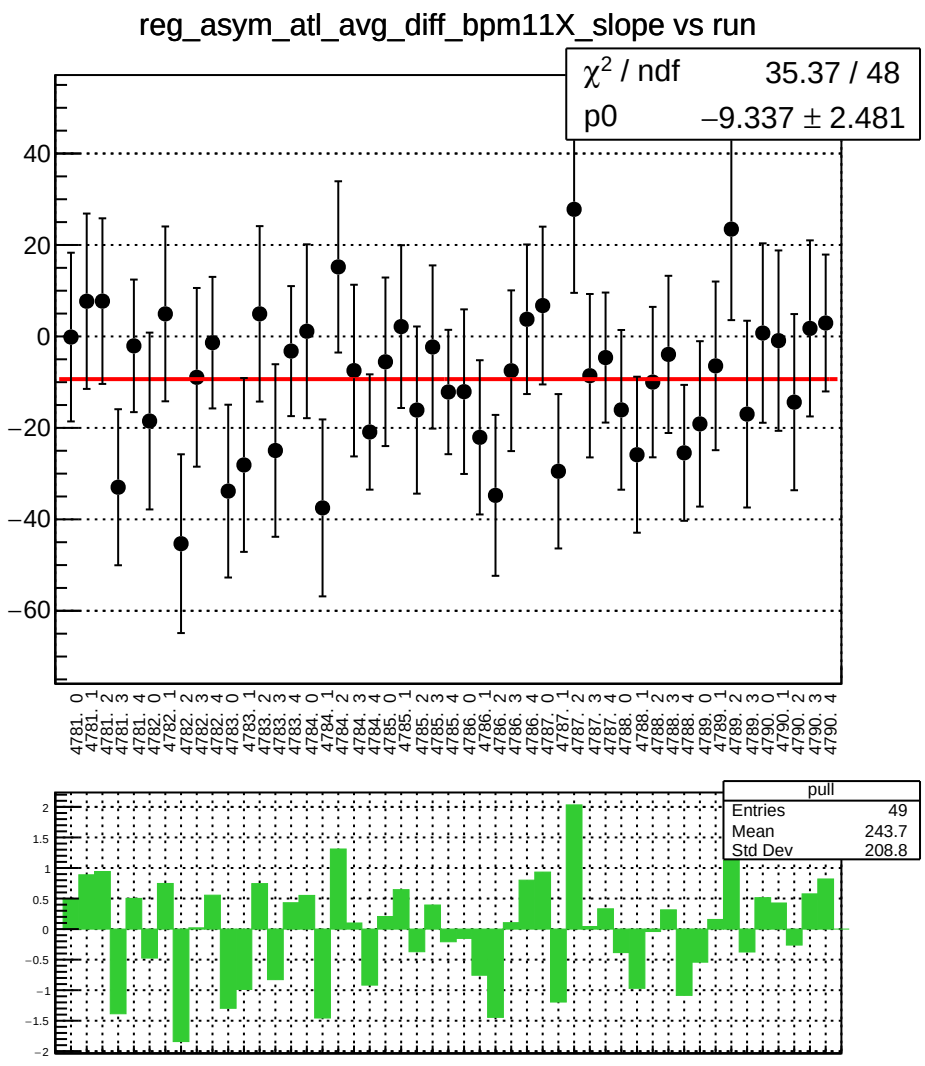

pull1D
Entries 49
Mean 0.01683
Std Dev 0.9742
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

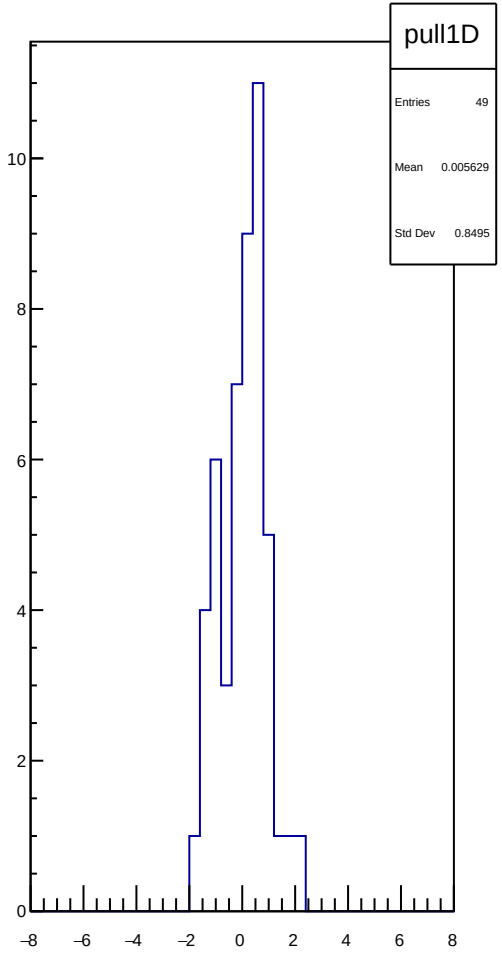

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 34.84 / 48
p0 −65.29 ± 1.65
pull
Entries 49
Mean 164.6
Std Dev 126.2

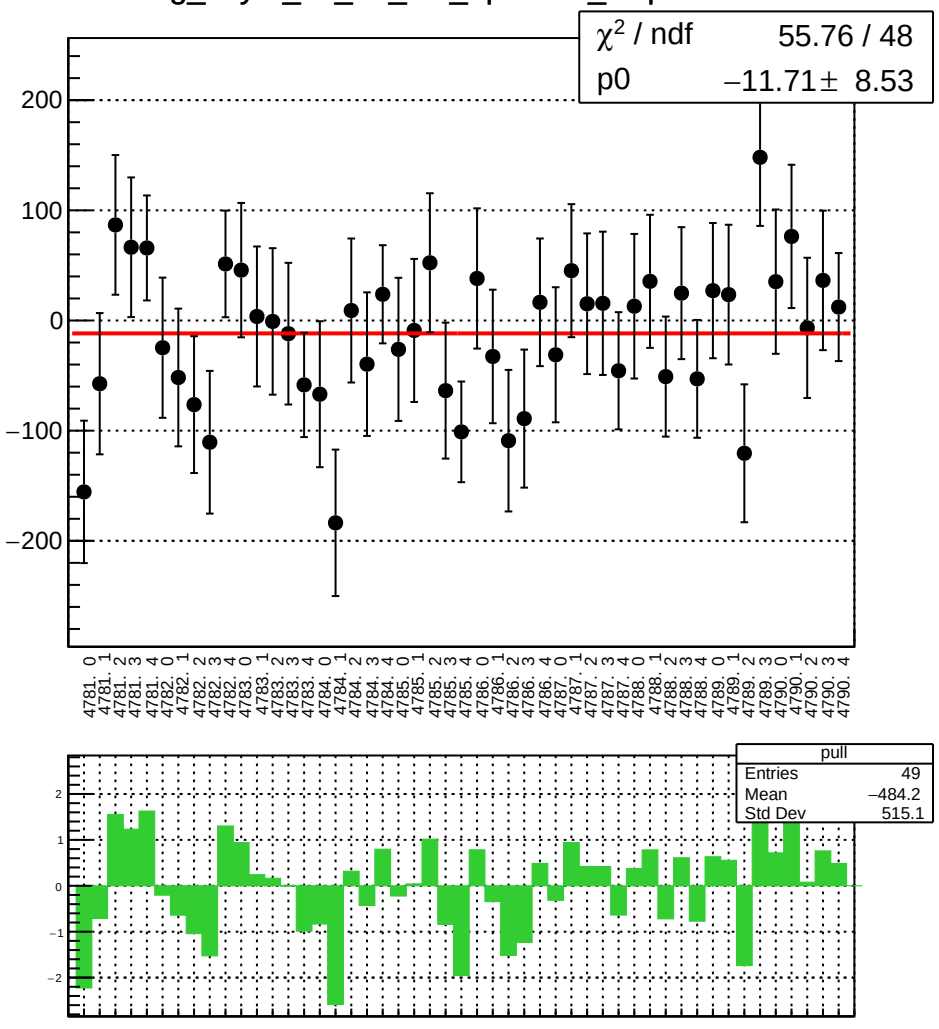

pull1D
Entries 49
Mean 0.007527
Std Dev 0.8432

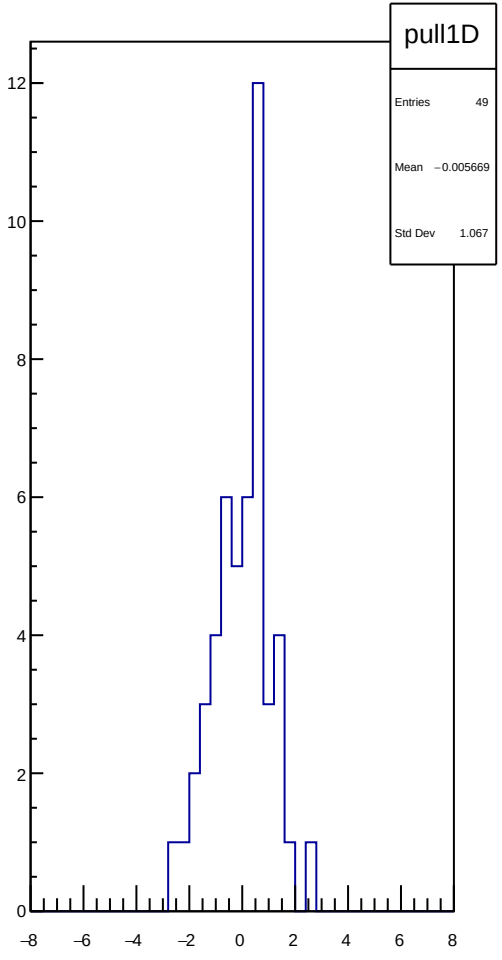

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 57.2 / 48
p0 15.69 ± 11.8
pull
Entries 49
Mean 34.52
Std Dev 24.89

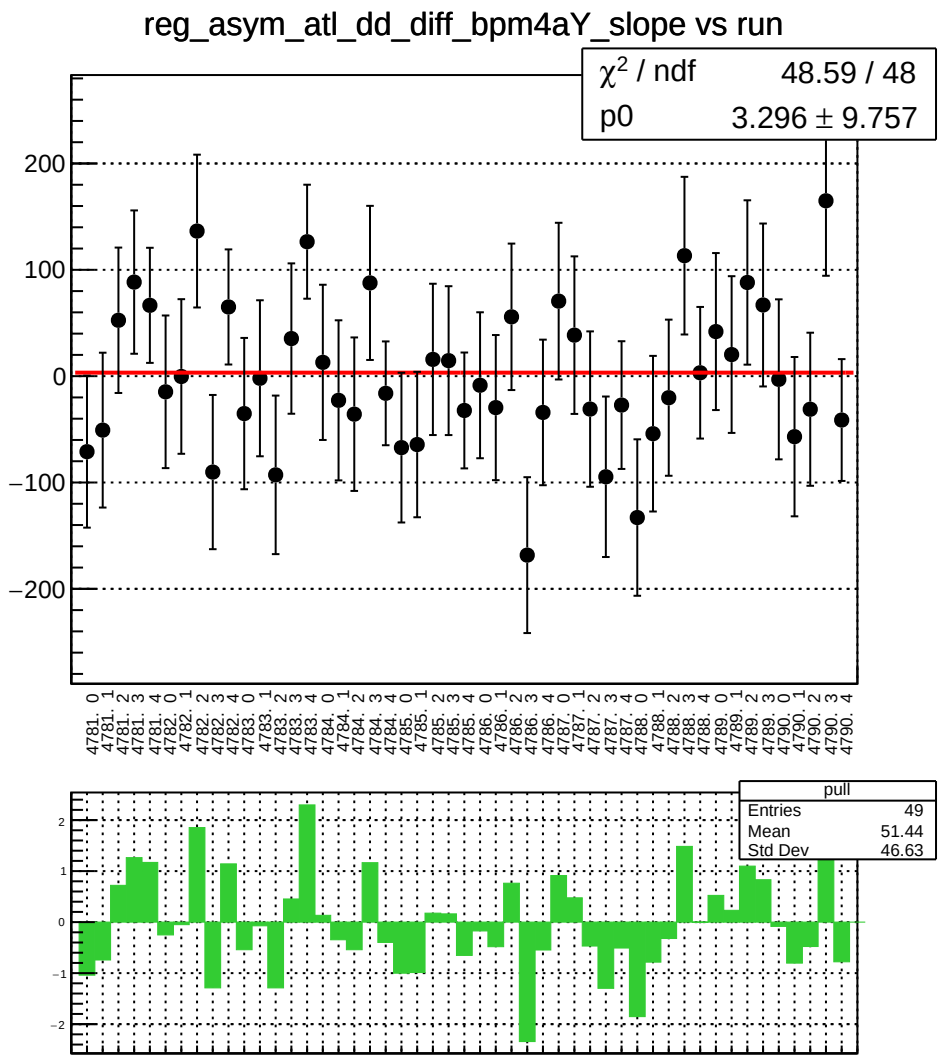

pull1D
Entries 49
Mean −0.02847
Std Dev 1.08

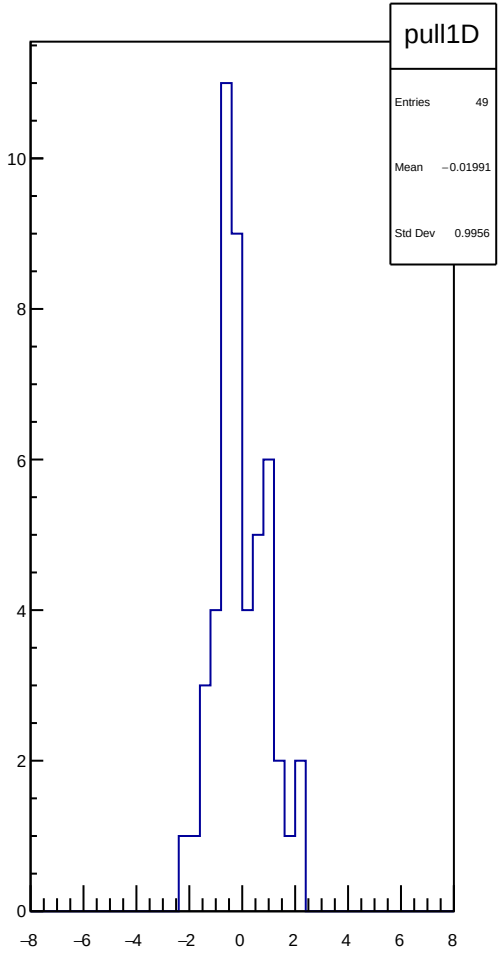

reg_asym_atl_avg_diff_bpm11X_slope vs run
χ² / ndf 35.37 / 48
p0 −9.337 ± 2.481
pull
Entries 49
Mean 243.7
Std Dev 208.8

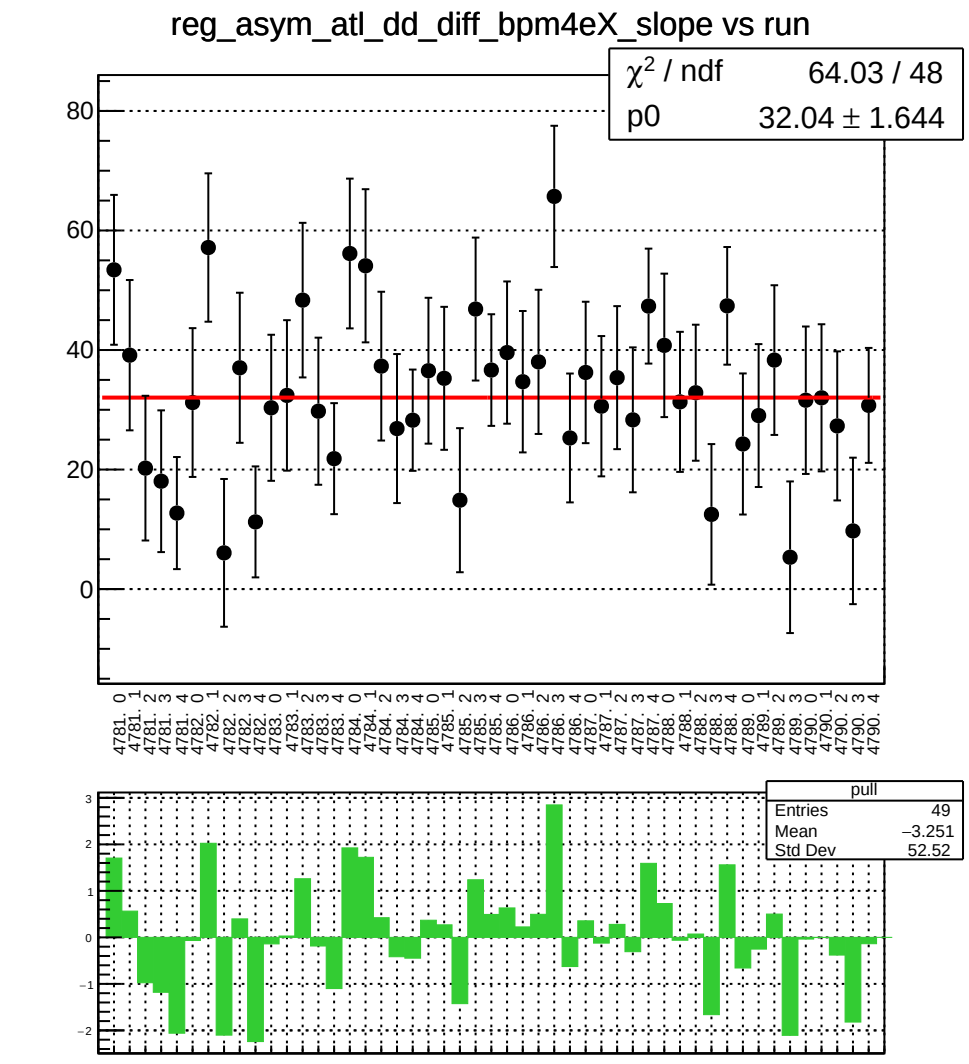

pull1D
Entries 49
Mean 0.005629
Std Dev 0.8495

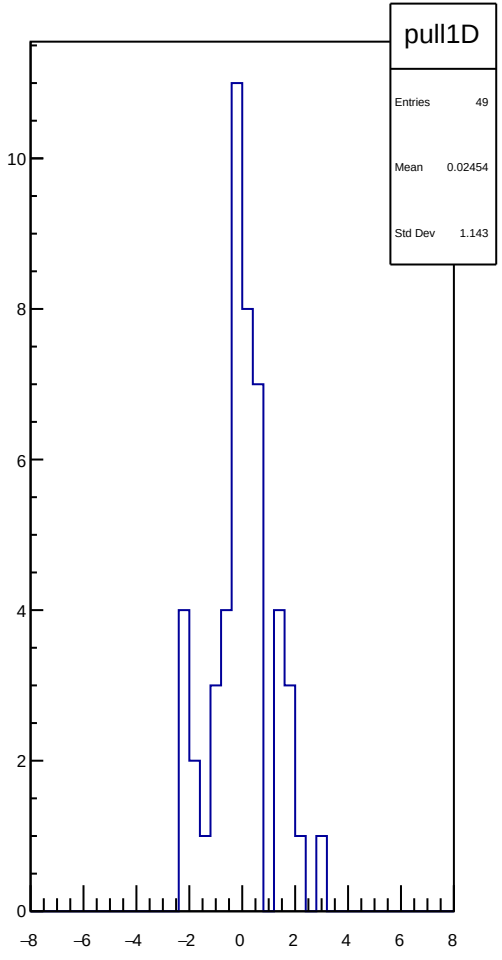

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 55.76 / 48
p0 −11.71± 8.53
200
100
0
−100
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −484.2
Std Dev 515.1
2
1
0
−1
−2

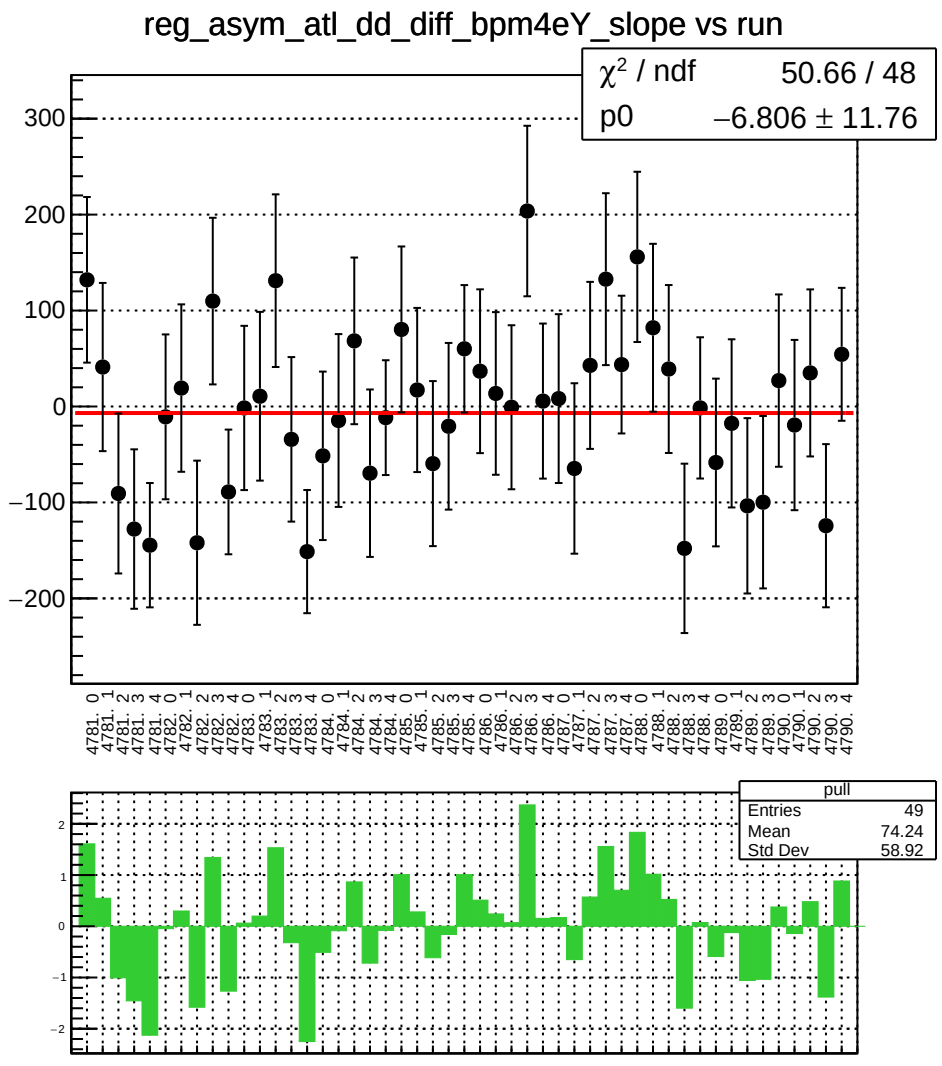

pull1D
Entries 49
Mean −0.005669
Std Dev 1.067
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

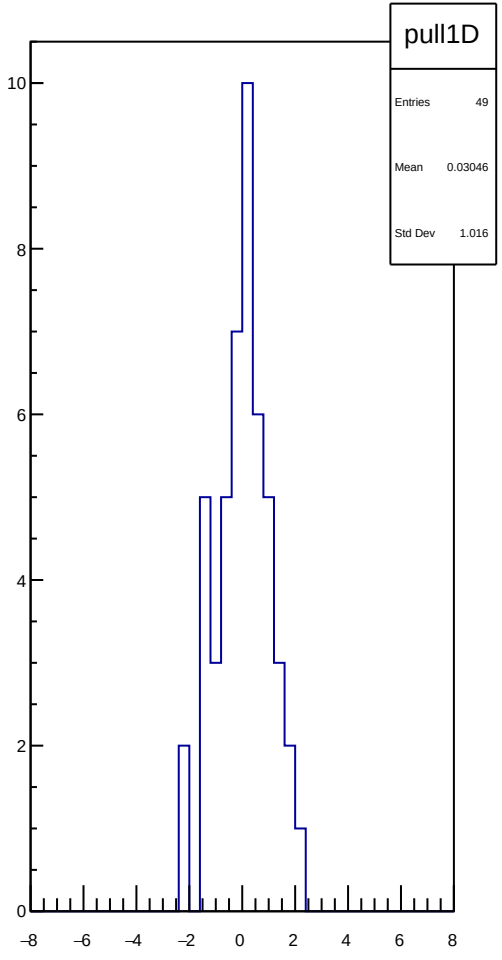

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 48.59 / 48
p0 3.296 ± 9.757
200
100
0
−100
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 51.44
Std Dev 46.63
2
1
0
−1
−2

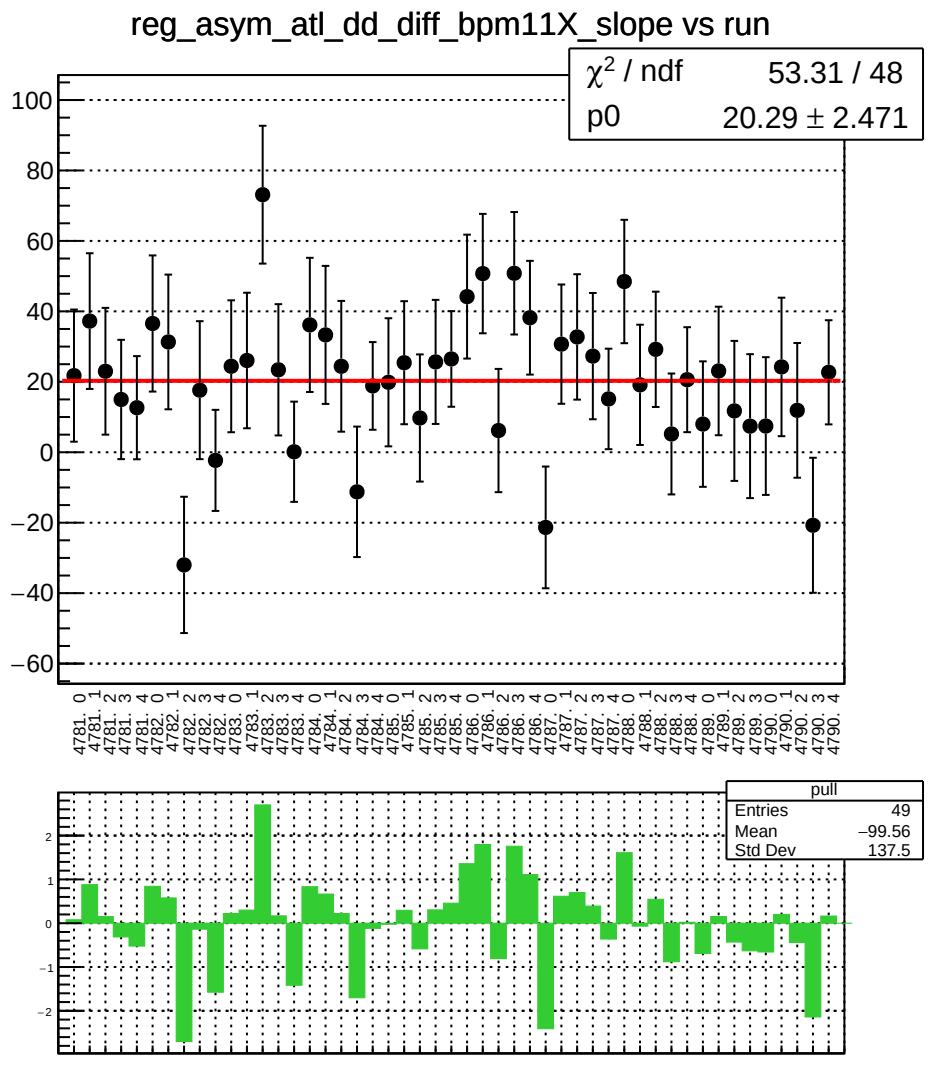

pull1D
Entries 49
Mean −0.01991
Std Dev 0.9956
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

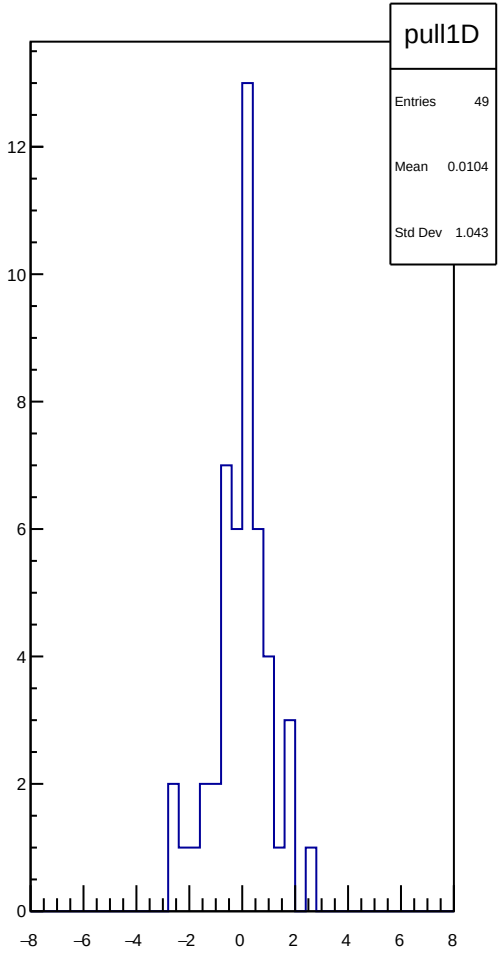

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.03 / 48
p0 32.04 ± 1.644
pull
Entries 49
Mean −3.251
Std Dev 52.52

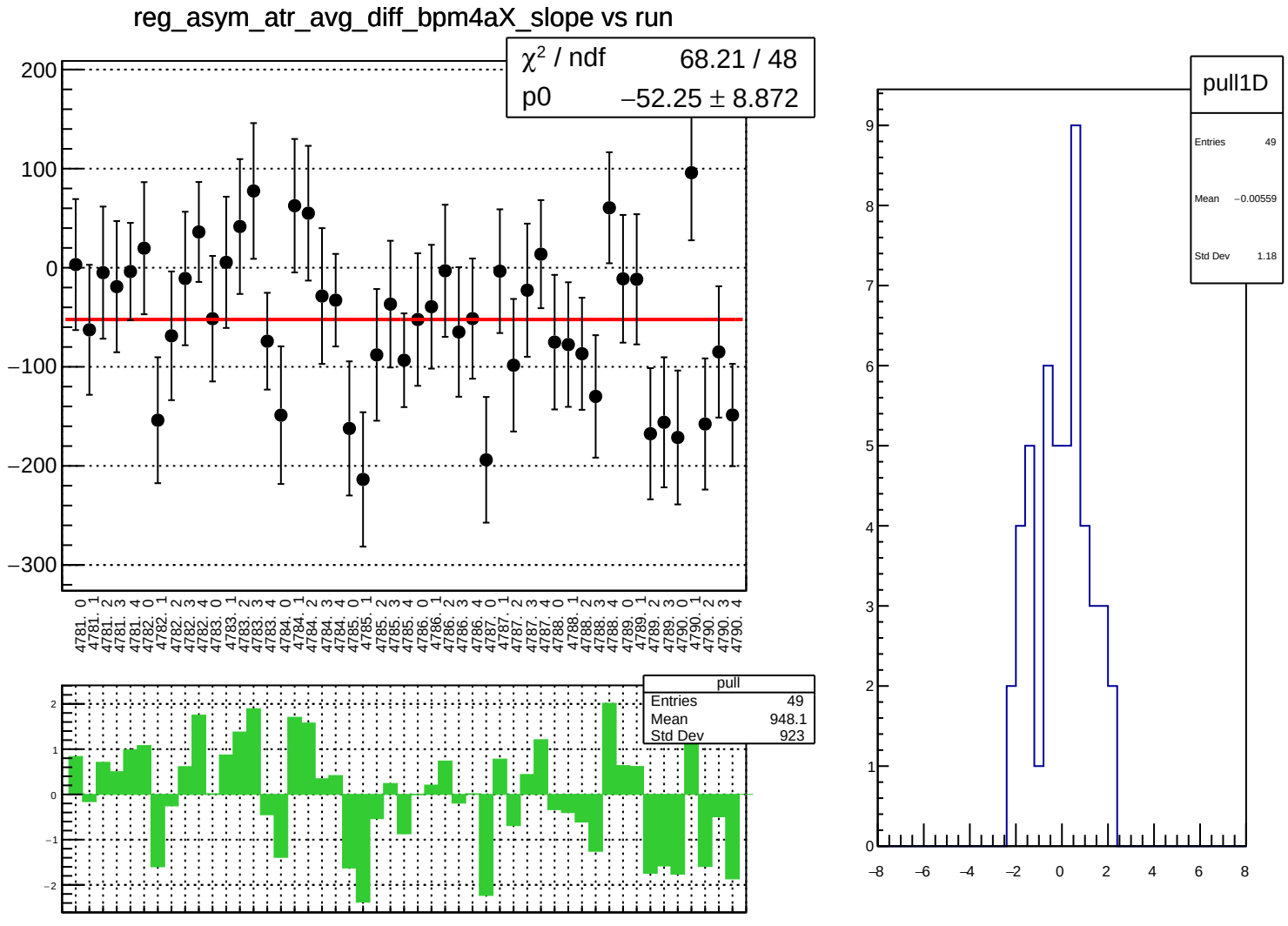

pull1D
Entries 49
Mean 0.02454
Std Dev 1.143

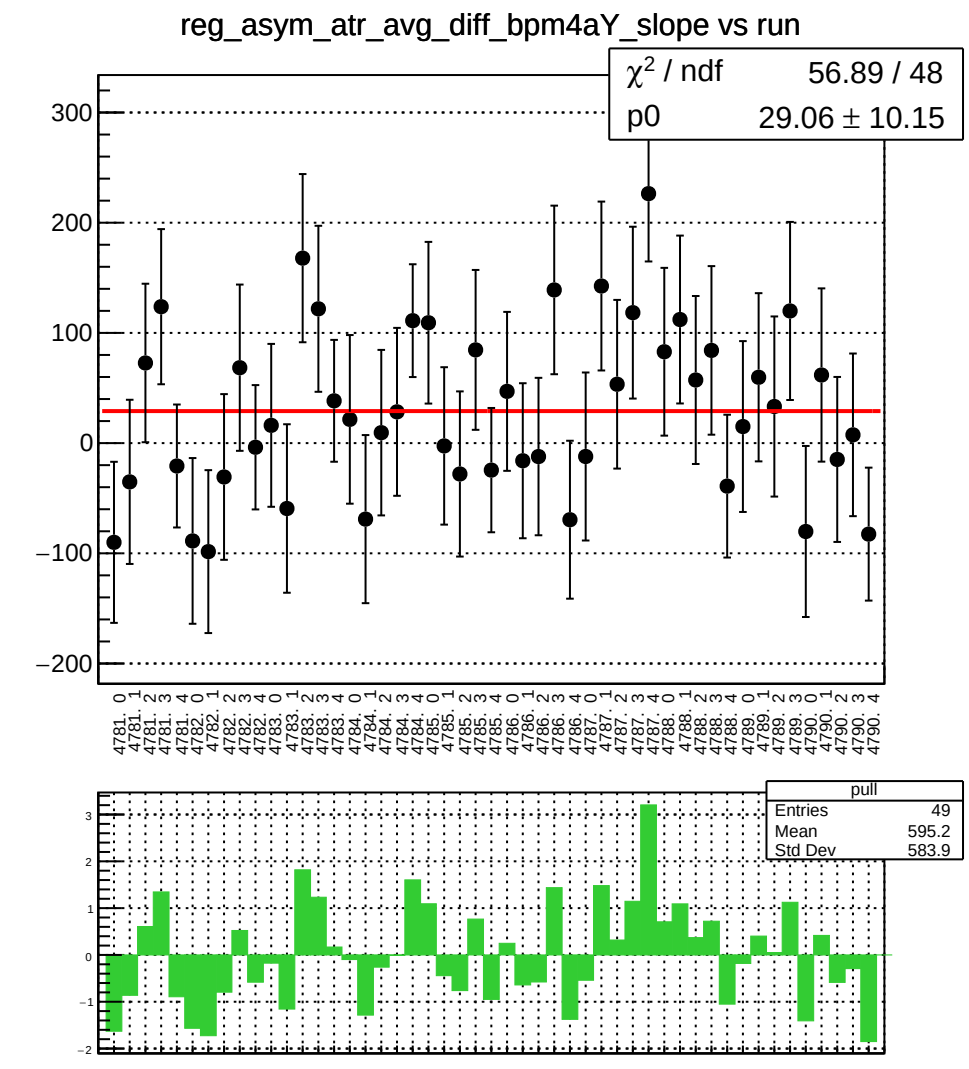

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.66 / 48
p0 −6.806 ± 11.76
300
200
100
0
−100
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 74.24
Std Dev 58.92
2
1
0
−1
−2

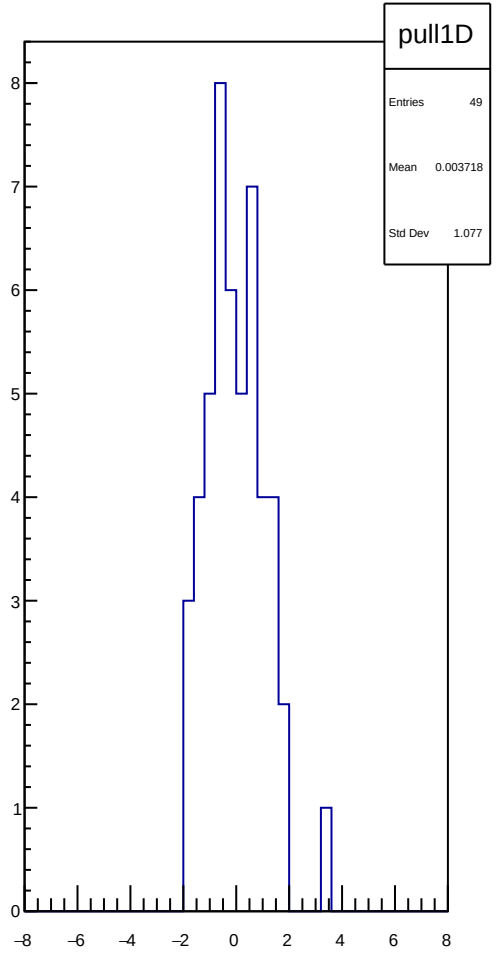

pull1D
Entries 49
Mean 0.03046
Std Dev 1.016
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

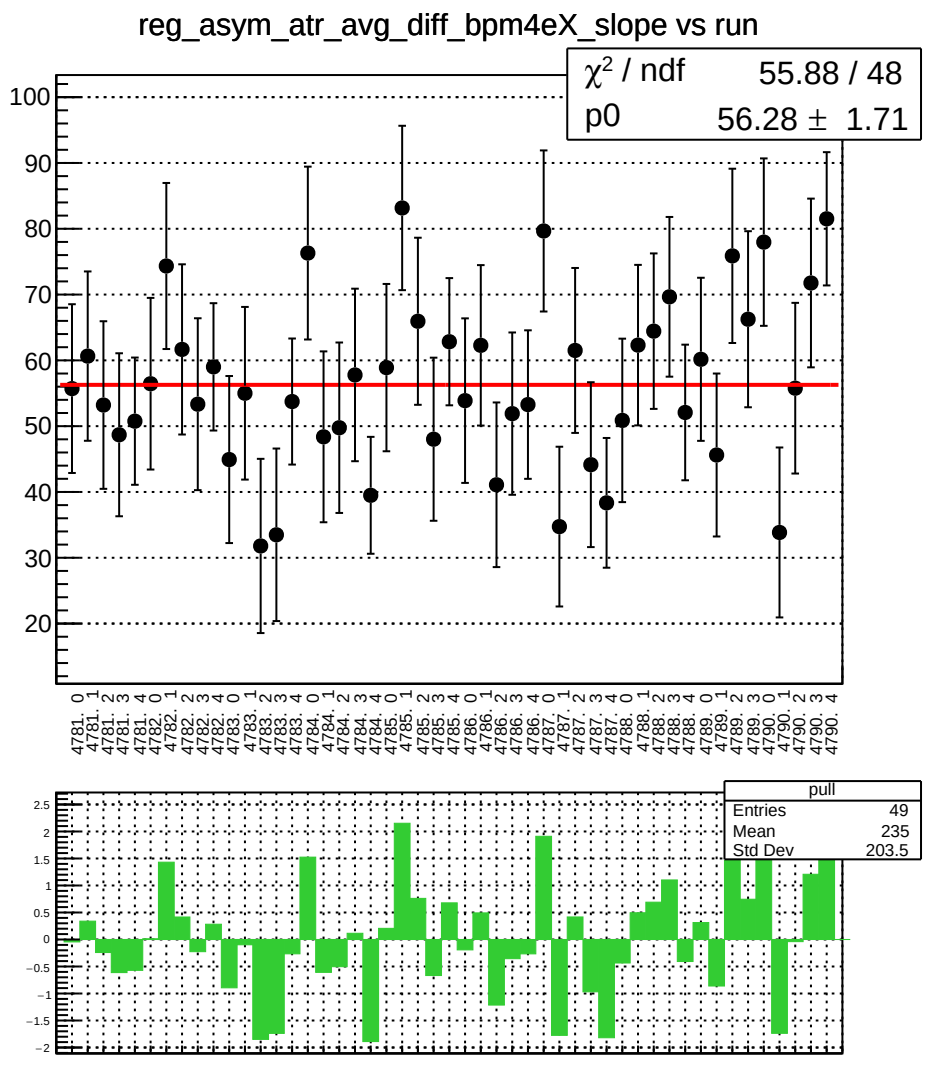

reg_asym_atl_dd_diff_bpm11X_slope vs run
χ² / ndf 53.31 / 48
p0 20.29 ± 2.471
pull
Entries 49
Mean −99.56
Std Dev 137.5

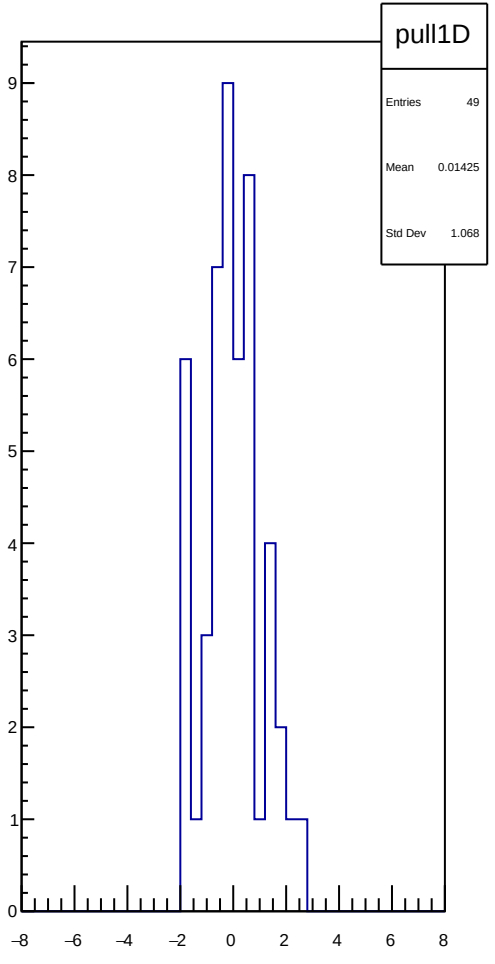

pull1D
Entries 49
Mean 0.0104
Std Dev 1.043

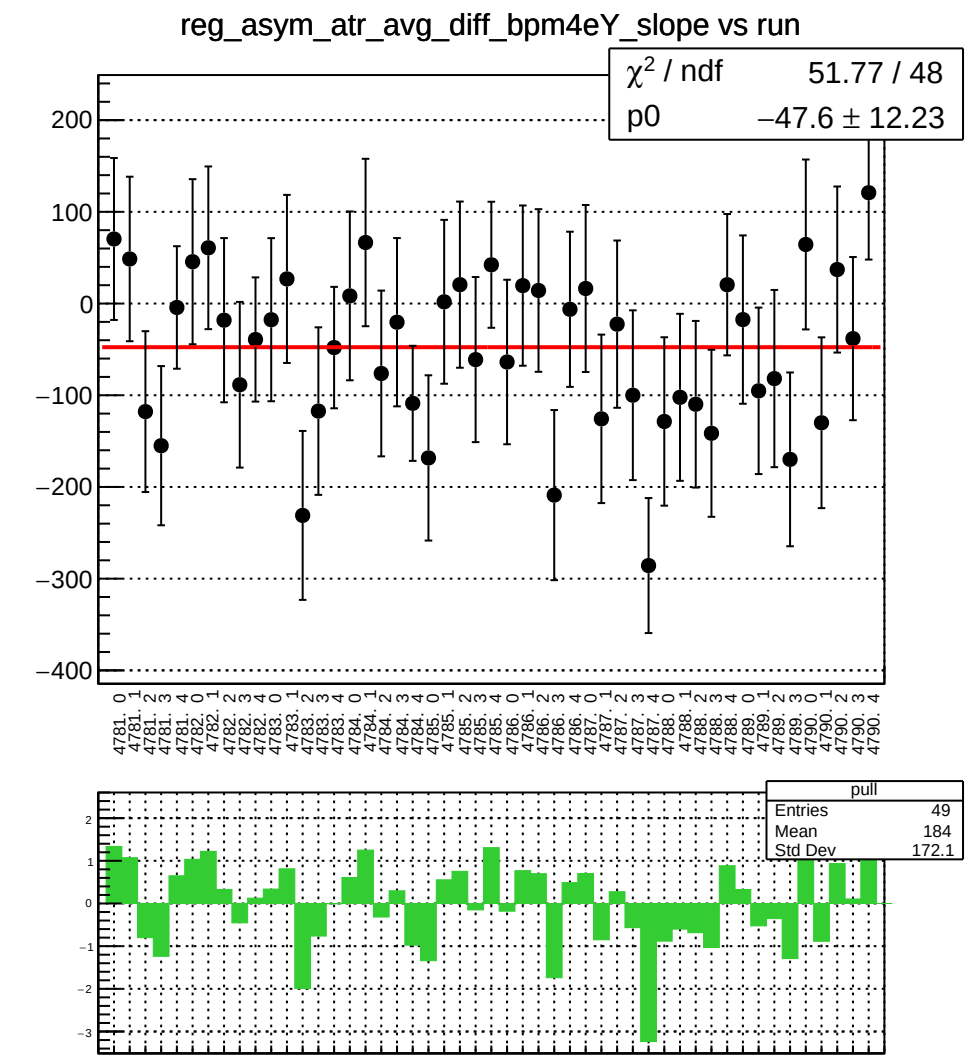

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 68.21 / 48
p0 −52.25 ± 8.872
200
100
0
−100
−200
−300
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 948.1
Std Dev 923
2
1
0
−1
−2
pull1D
Entries 49
Mean −0.00559
Std Dev 1.18
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

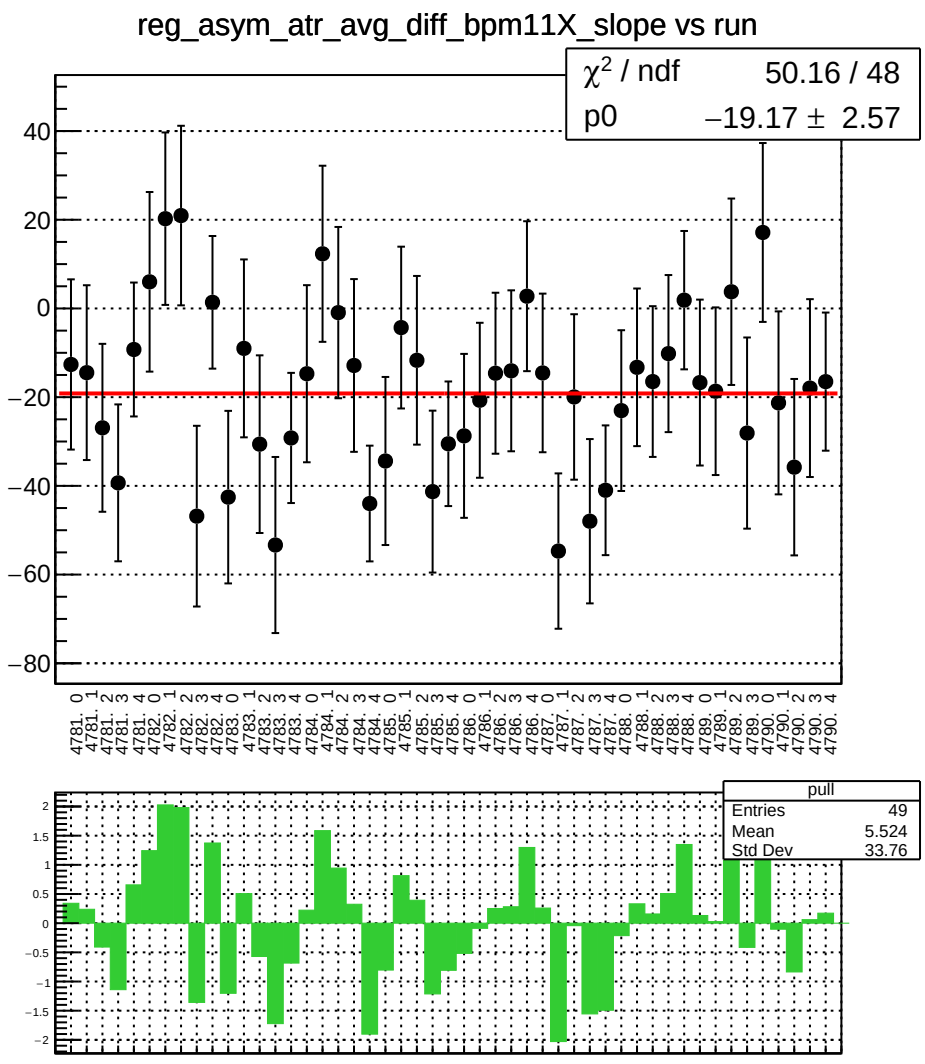

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 56.89 / 48
p0 29.06 ± 10.15
pull
Entries 49
Mean 595.2
Std Dev 583.9

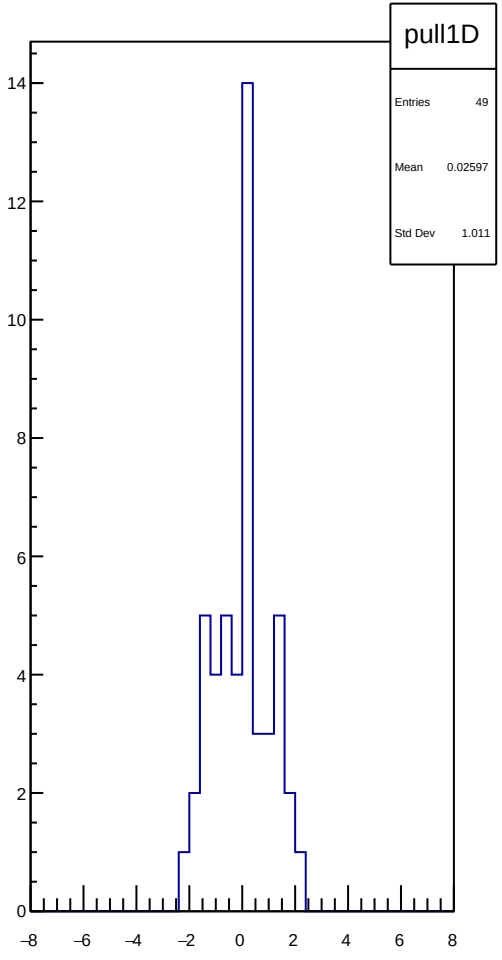

pull1D
Entries 49
Mean 0.003718
Std Dev 1.077

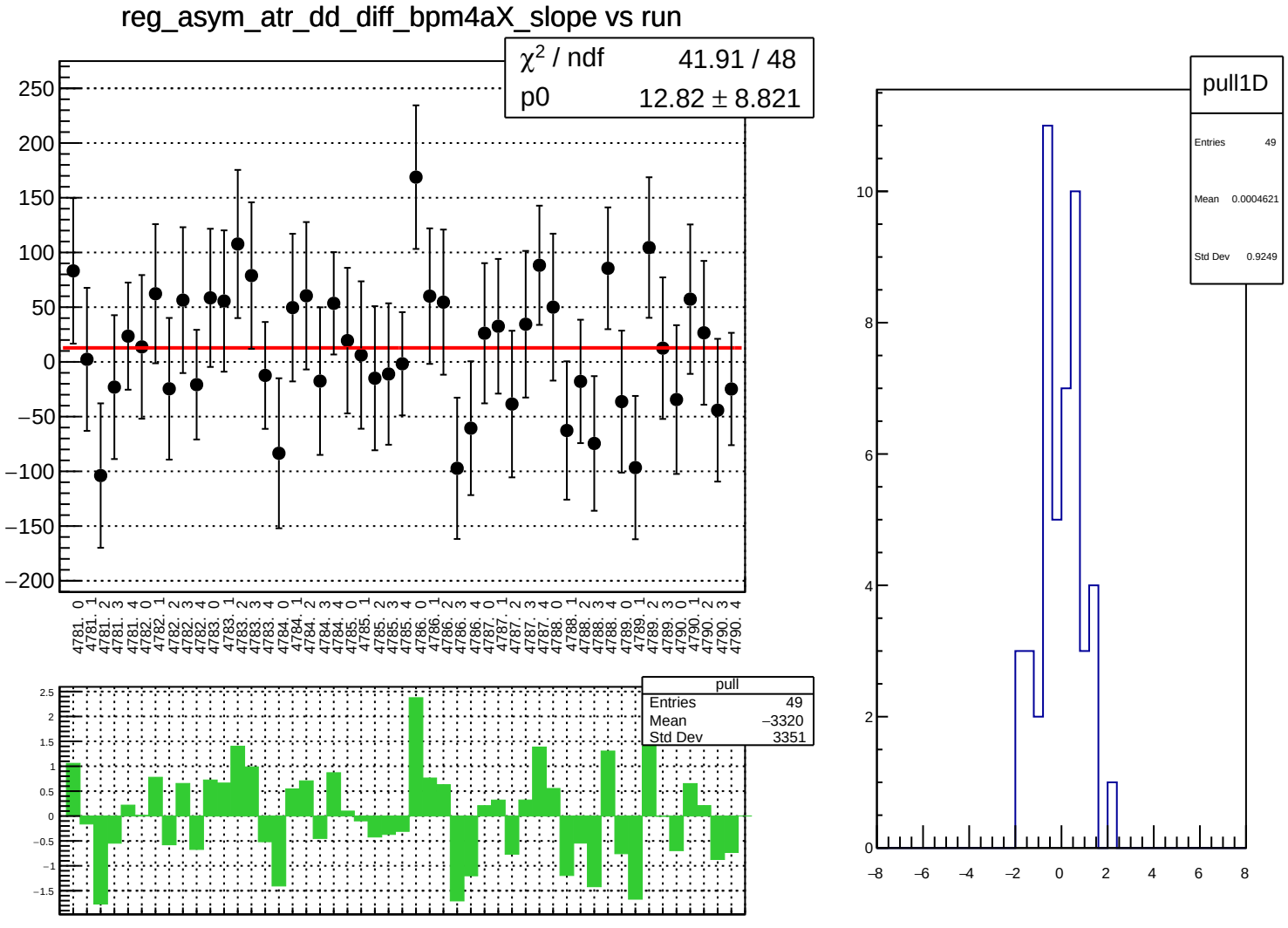

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 55.88 / 48
p0 56.28 ± 1.71
pull
Entries 49
Mean 235
Std Dev 203.5

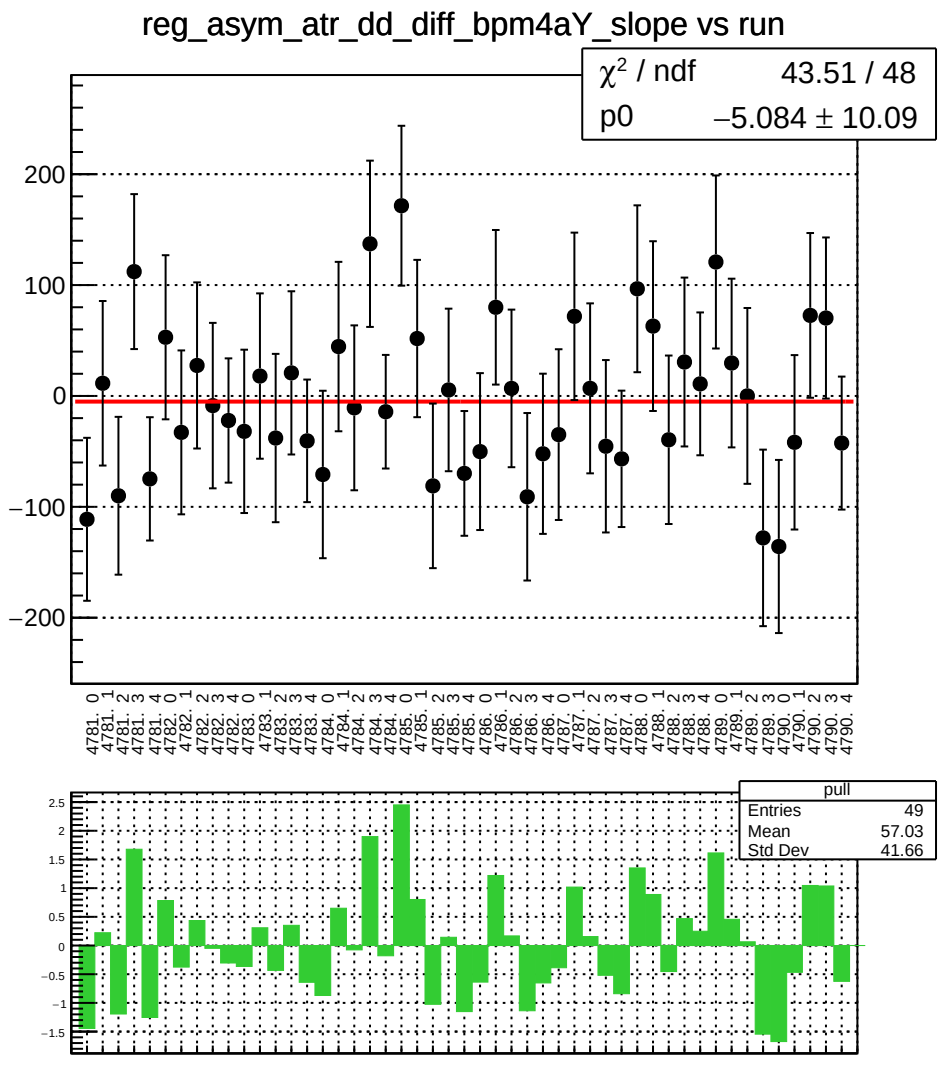

pull1D
Entries 49
Mean 0.01425
Std Dev 1.068

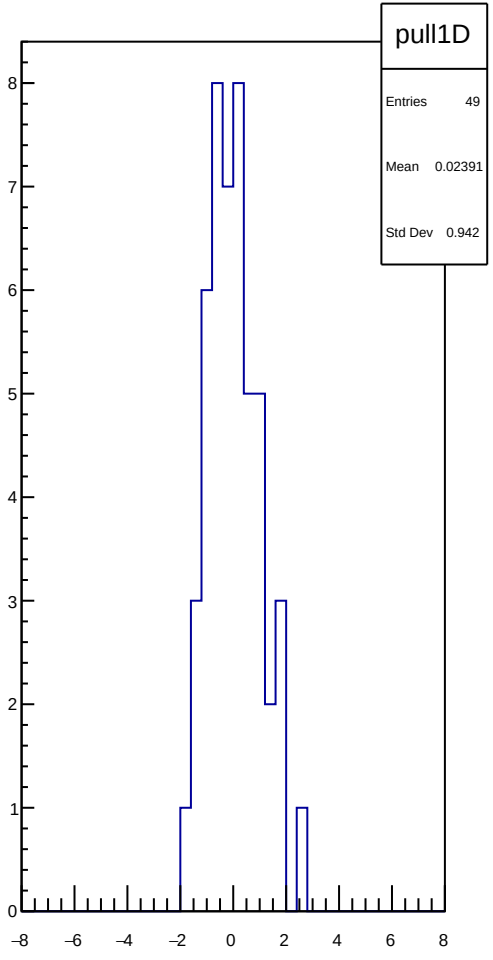

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 51.77 / 48
p0 −47.6 ± 12.23
200
100
0
−100
−200
−300
−400
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 184
Std Dev 172.1
2
1
0
−1
−2
−3
pull1D
Entries 49
Mean −0.009502
Std Dev 1.028
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

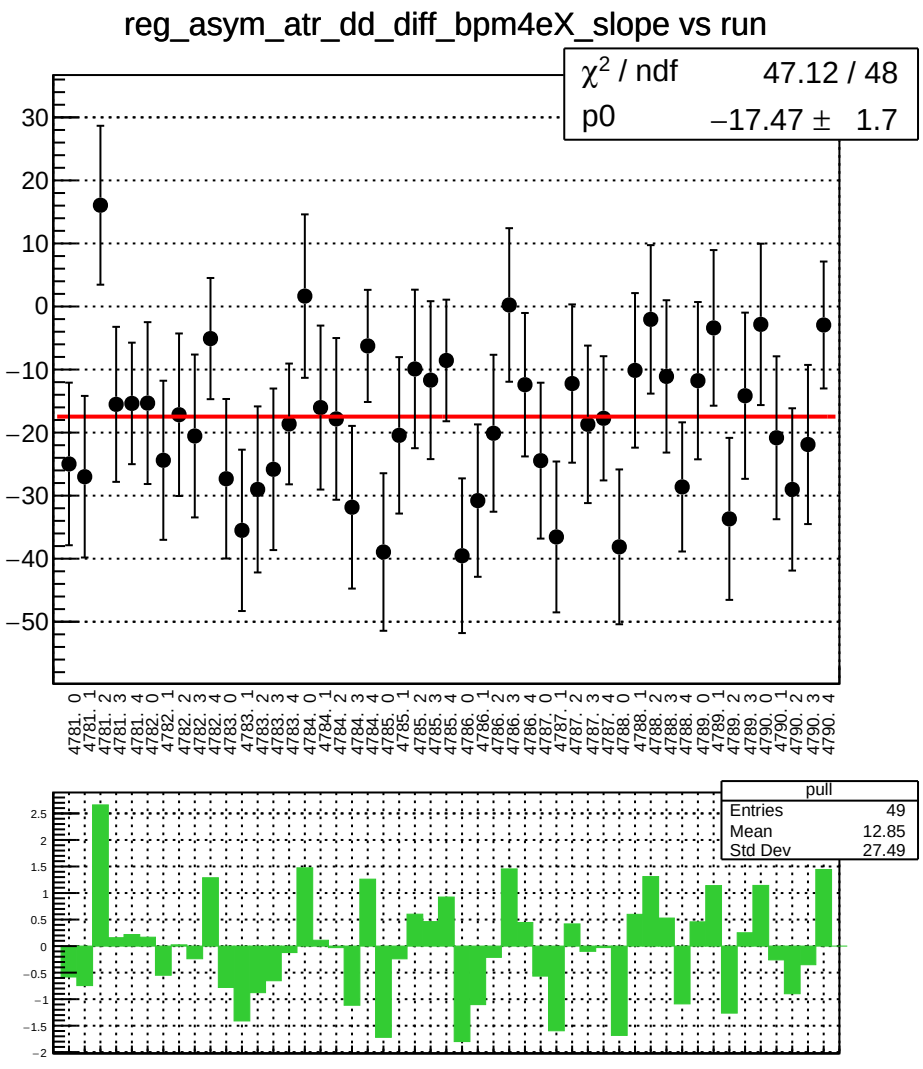

reg_asym_atr_avg_diff_bpm11X_slope vs run
χ² / ndf 50.16 / 48
p0 −19.17 ± 2.57
pull
Entries 49
Mean 5.524
Std Dev 33.76

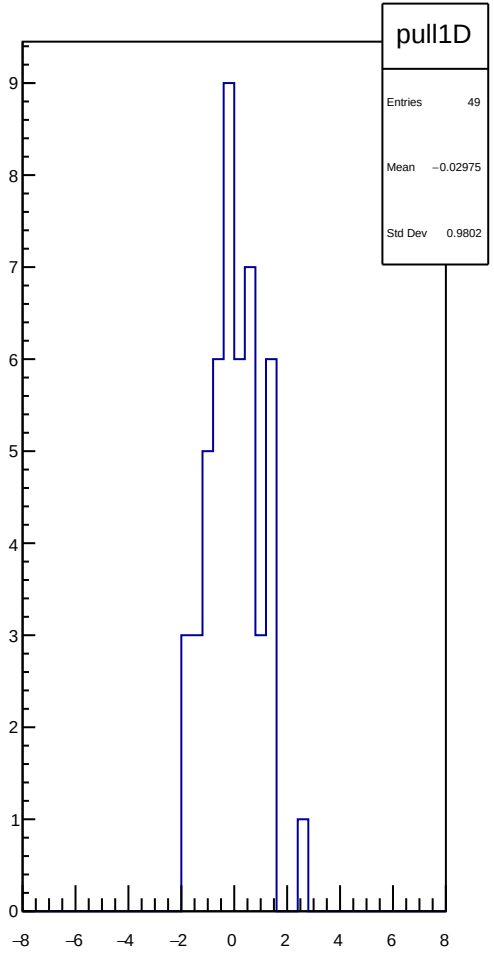

pull1D
Entries 49
Mean 0.02597
Std Dev 1.011

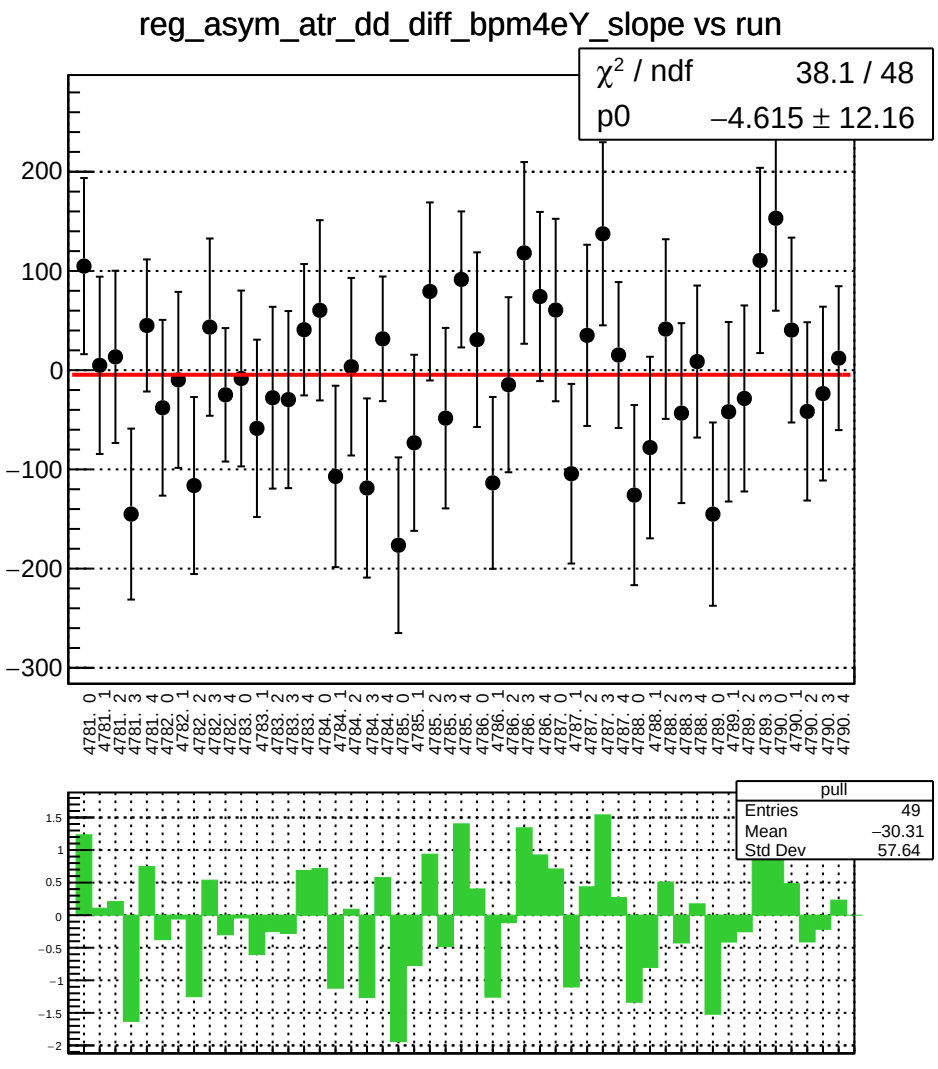

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 41.91 / 48
p0 12.82 ± 8.821
pull
Entries 49
Mean −3320
Std Dev 3351
pull1D
Entries 49
Mean 0.0004621
Std Dev 0.9249

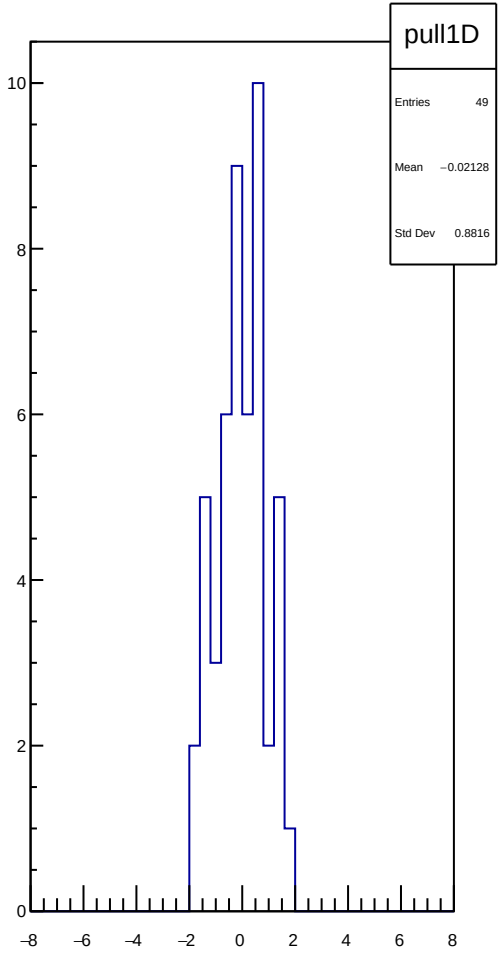

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 43.51 / 48
p0 −5.084 ± 10.09
200
100
0
−100
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 57.03
Std Dev 41.66
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

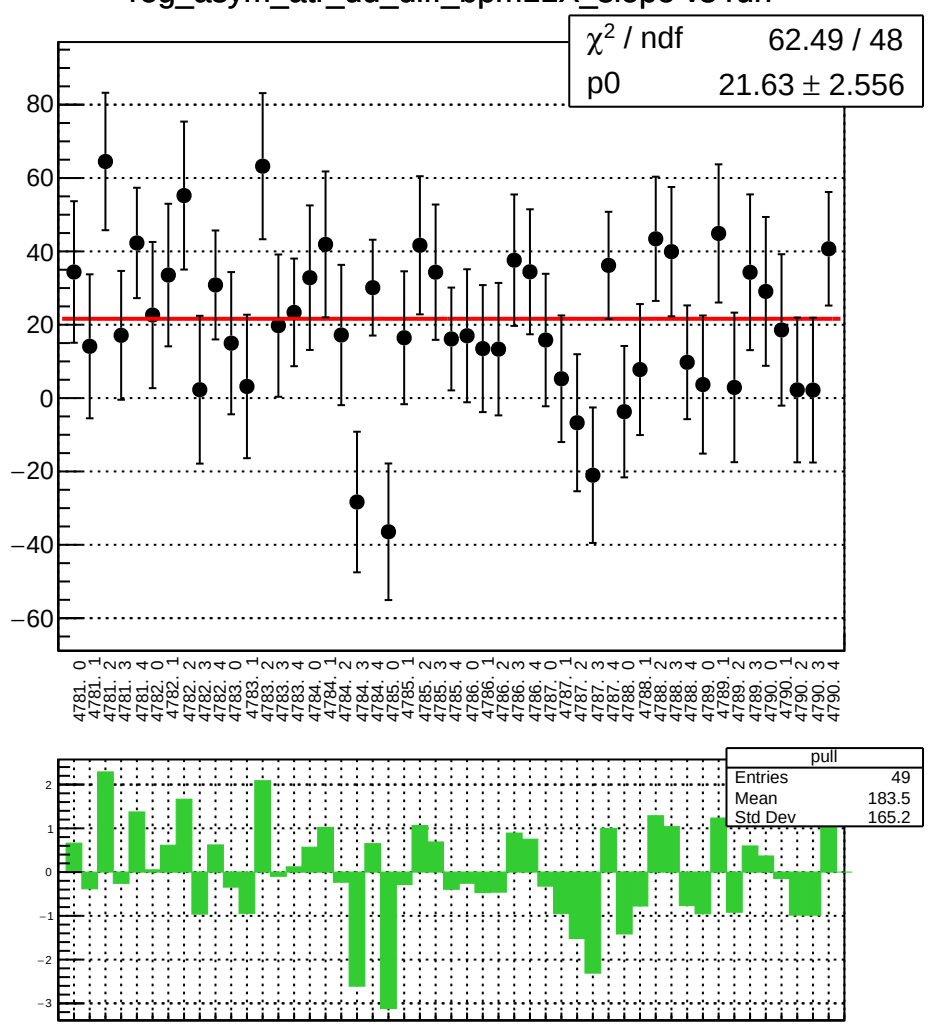

pull1D
Entries 49
Mean 0.02391
Std Dev 0.942
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

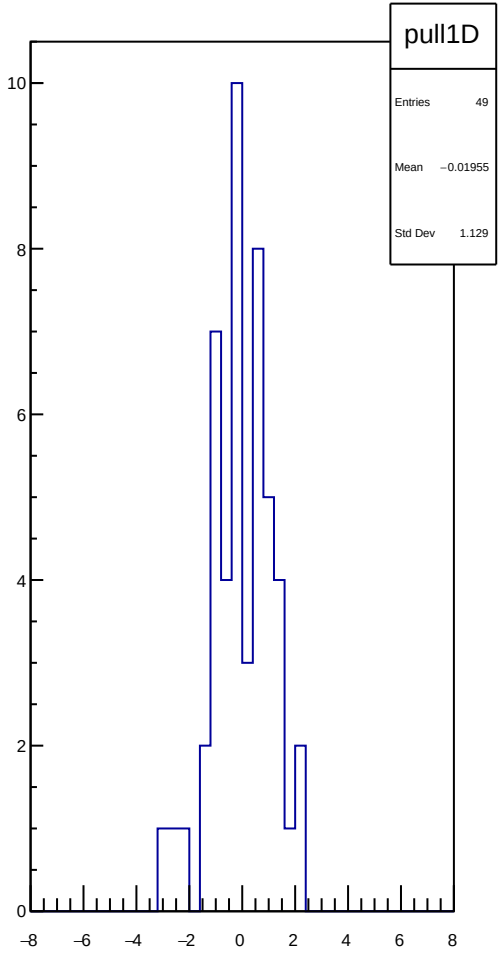

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.12 / 48
p0 −17.47 ± 1.7
pull
Entries 49
Mean 12.85
Std Dev 27.49

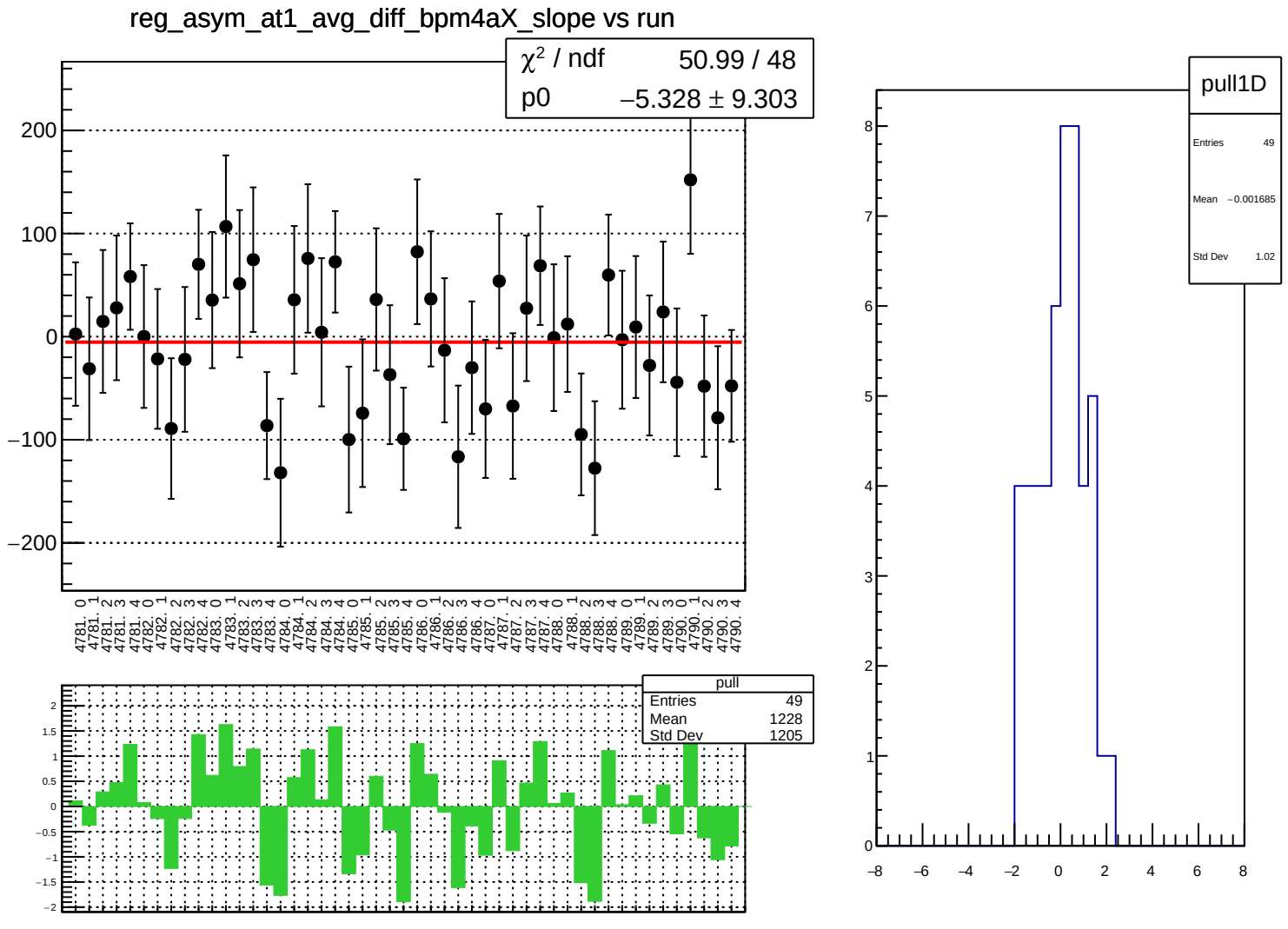

pull1D
Entries 49
Mean −0.02975
Std Dev 0.9802

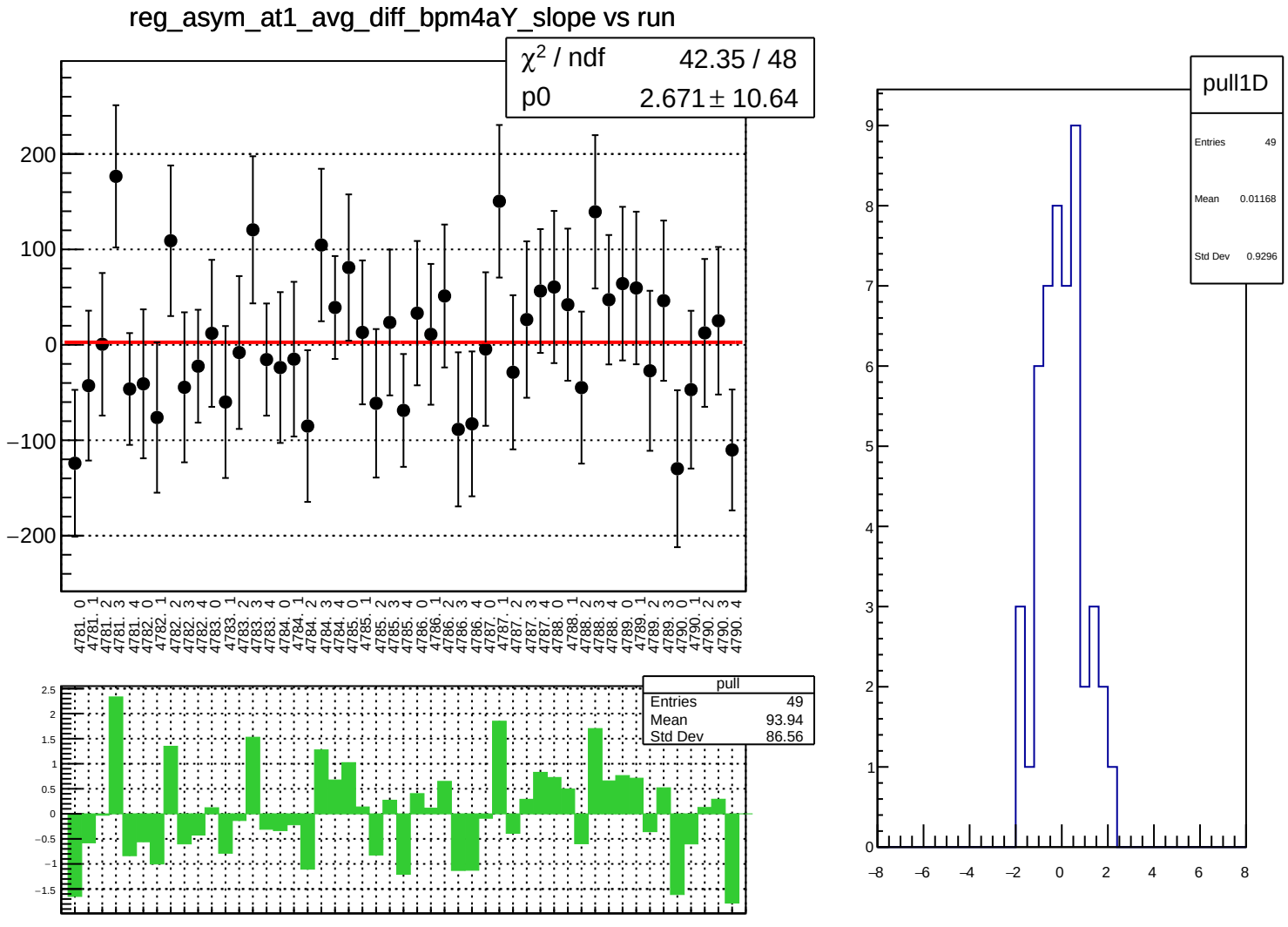

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.1 / 48
p0 −4.615 ± 12.16
200
100
0
−100
−200
−300
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −30.31
Std Dev 57.64
1.5
1
0.5
0
−0.5
−1
−1.5
−2

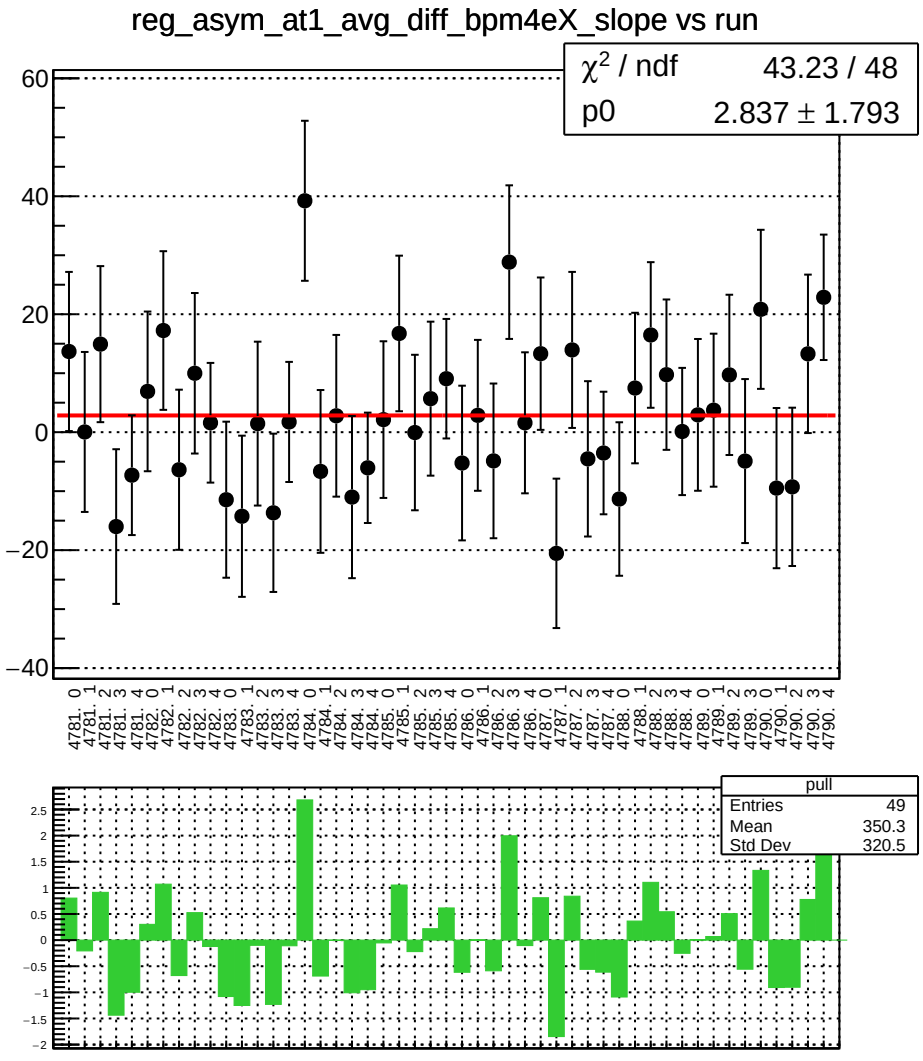

pull1D
Entries 49
Mean −0.02128
Std Dev 0.8816
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

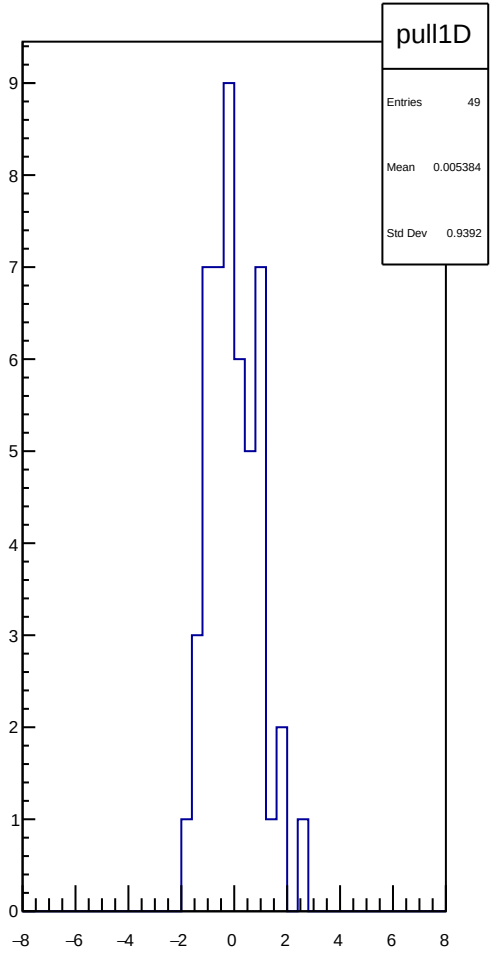

reg_asym_atr_dd_diff_bpm11X_slope vs run
χ² / ndf 62.49 / 48
p0 21.63 ± 2.556
pull
Entries 49
Mean 183.5
Std Dev 165.2

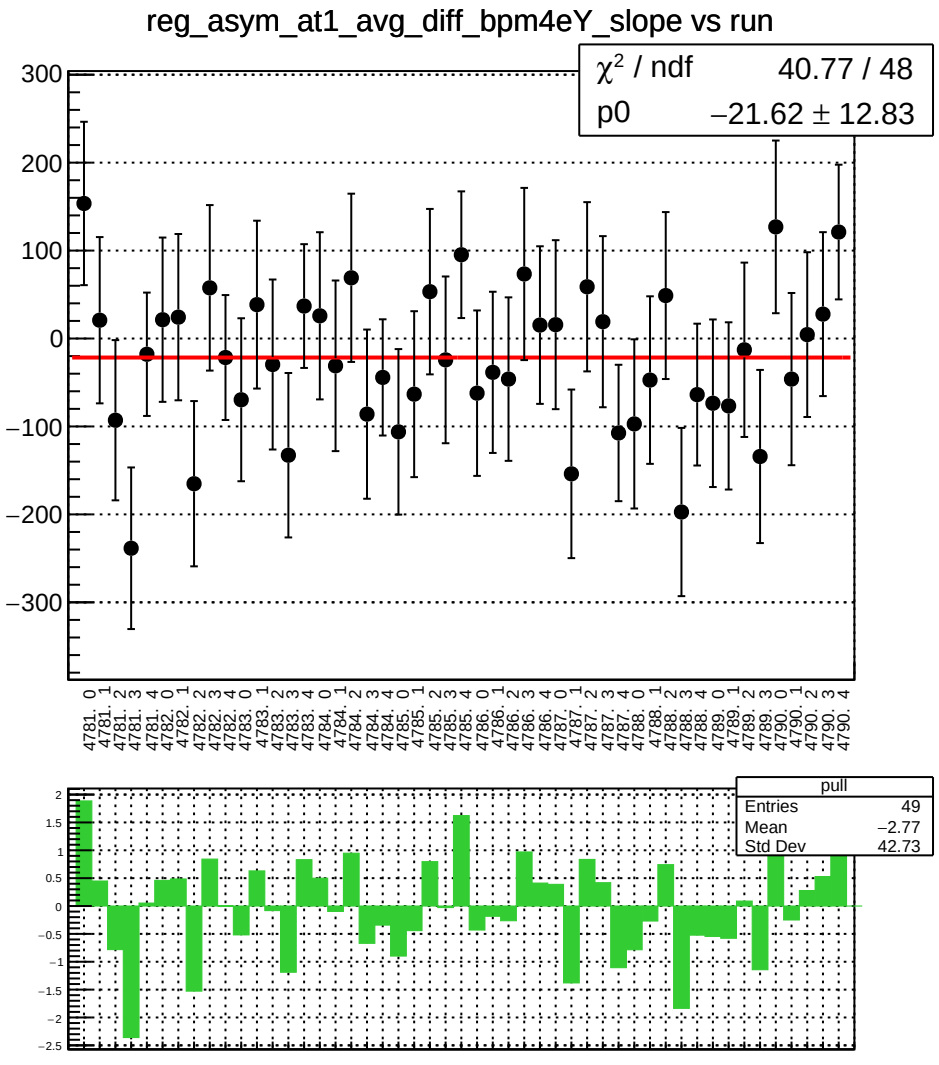

pull1D
Entries 49
Mean −0.01955
Std Dev 1.129

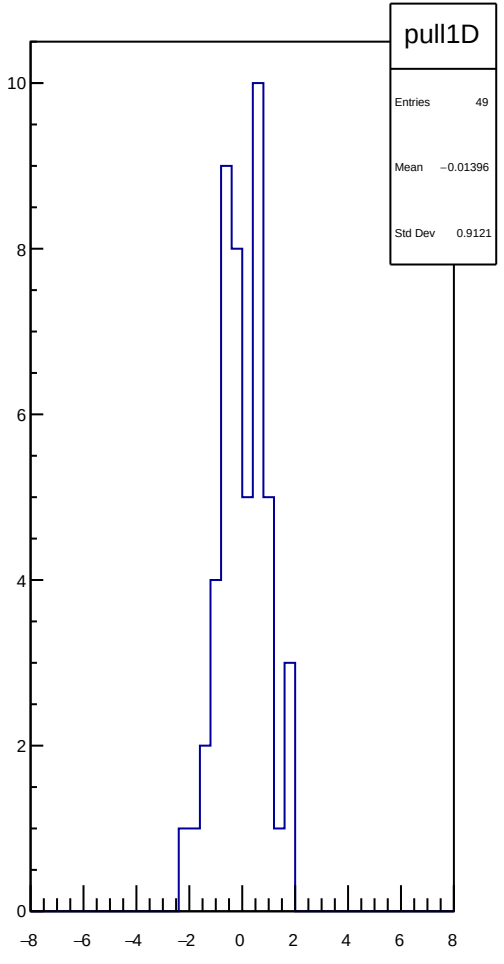

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 50.99 / 48
p0 −5.328 ± 9.303
200
100
0
−100
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 1228
Std Dev 1205
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean −0.001685
Std Dev 1.02
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

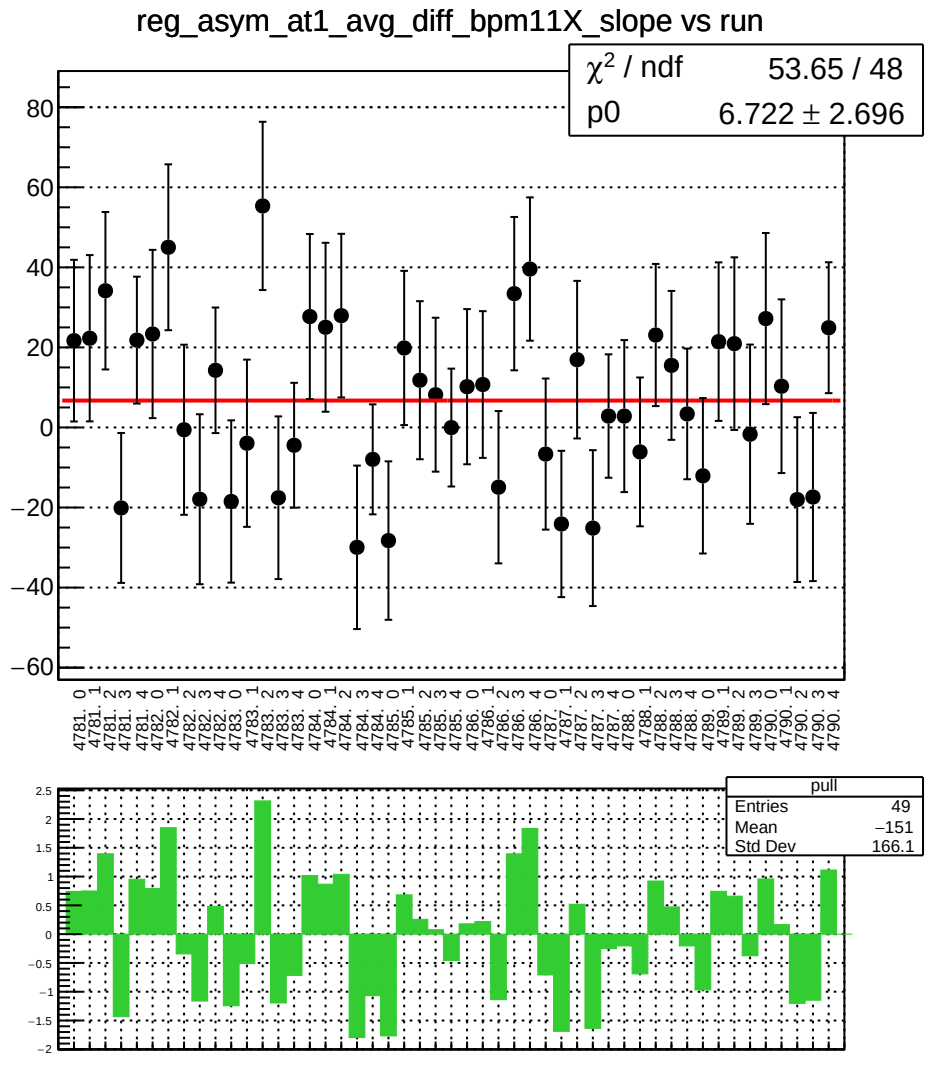

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 42.35 / 48
p0 2.671 ± 10.64
200
100
0
−100
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 93.94
Std Dev 86.56
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 49
Mean 0.01168
Std Dev 0.9296
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

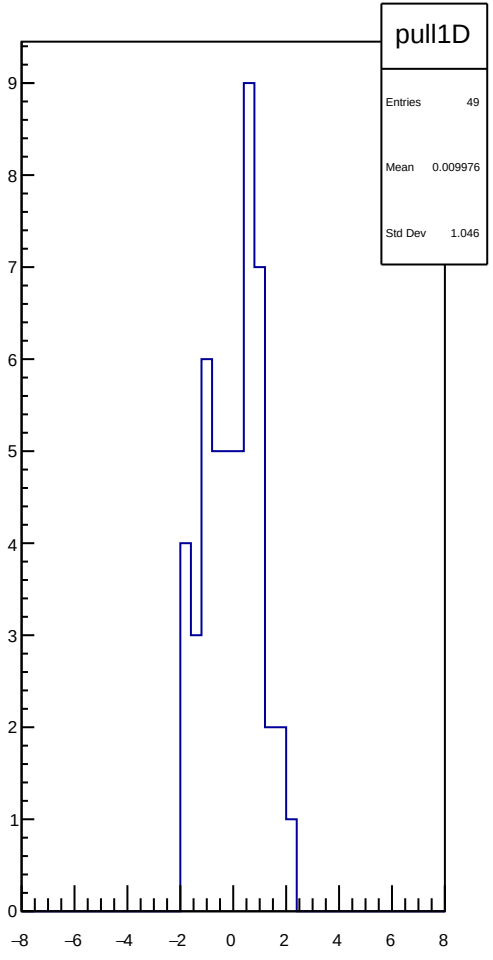

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.23 / 48
p0 2.837 ± 1.793
pull
Entries 49
Mean 350.3
Std Dev 320.5

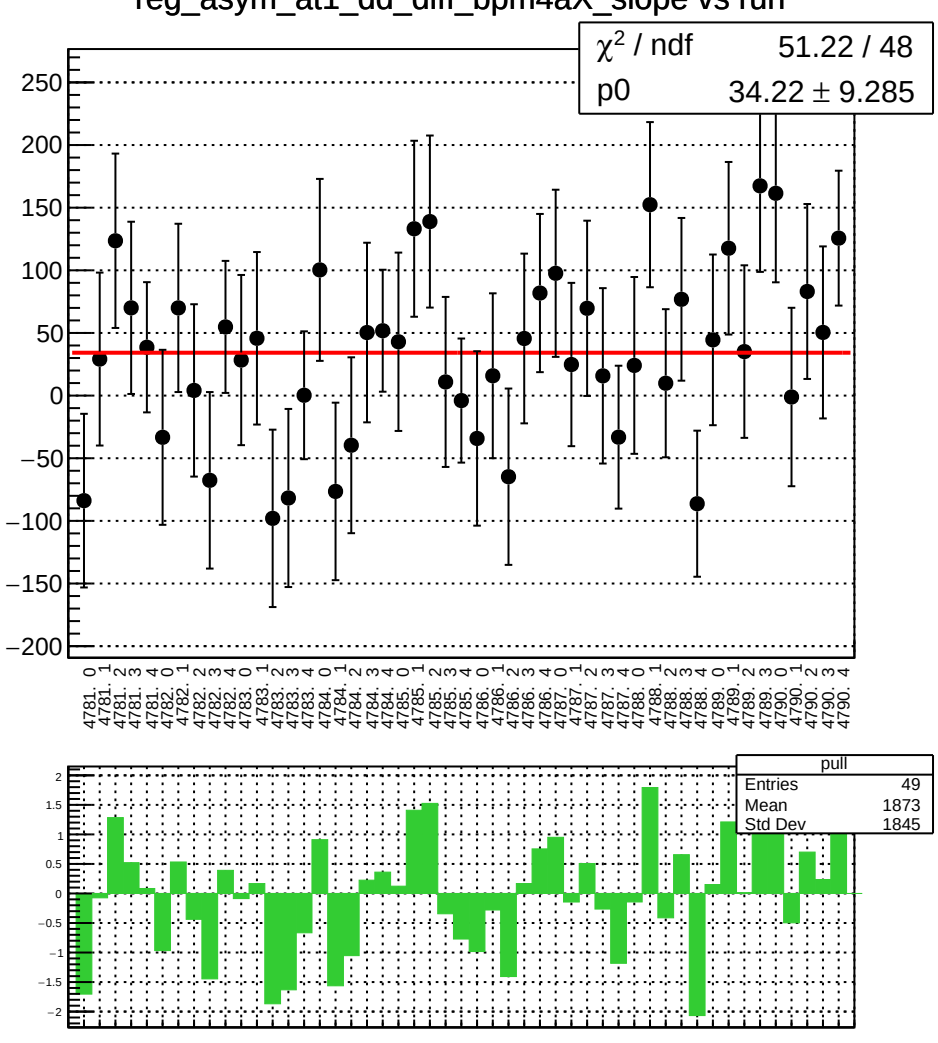

pull1D
Entries 49
Mean 0.005384
Std Dev 0.9392

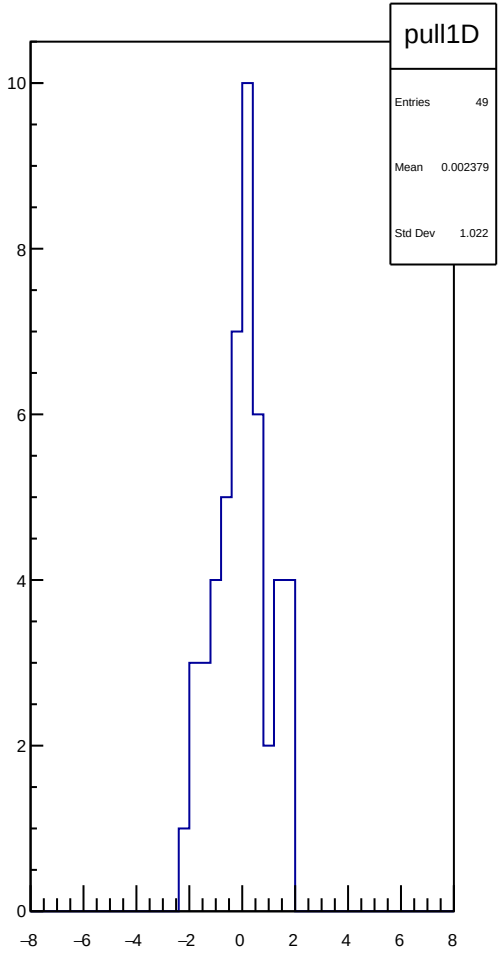

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 40.77 / 48
p0 −21.62 ± 12.83
pull
Entries 49
Mean −2.77
Std Dev 42.73

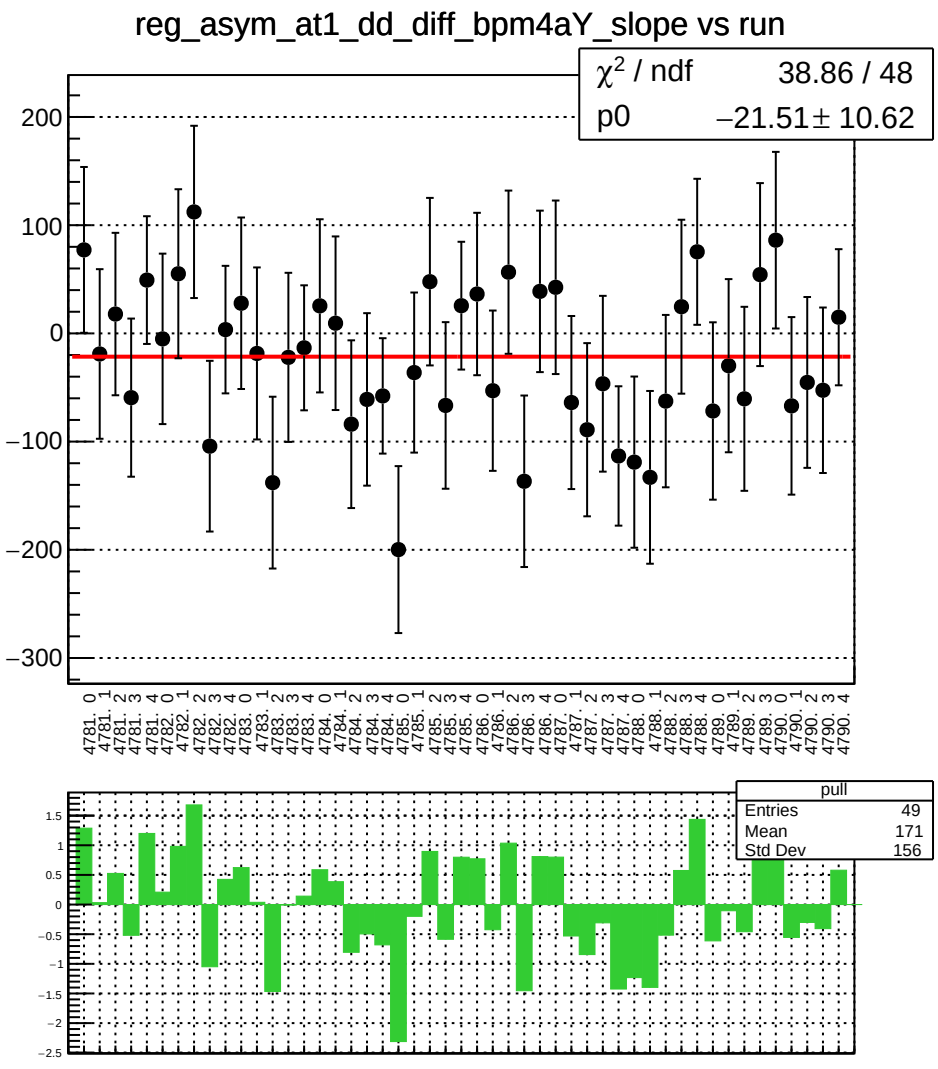

pull1D
Entries 49
Mean −0.01396
Std Dev 0.9121

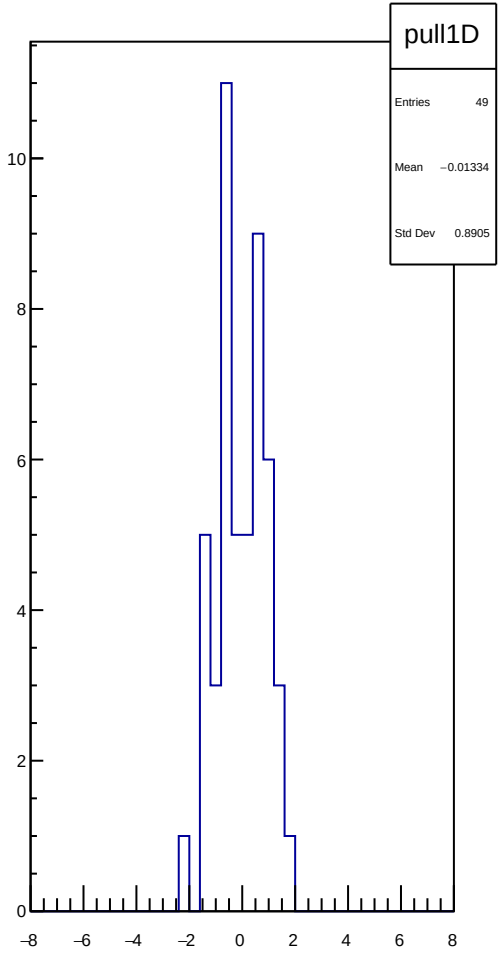

reg_asym_at1_avg_diff_bpm11X_slope vs run
χ² / ndf 53.65 / 48
p0 6.722 ± 2.696
pull
Entries 49
Mean −151
Std Dev 166.1

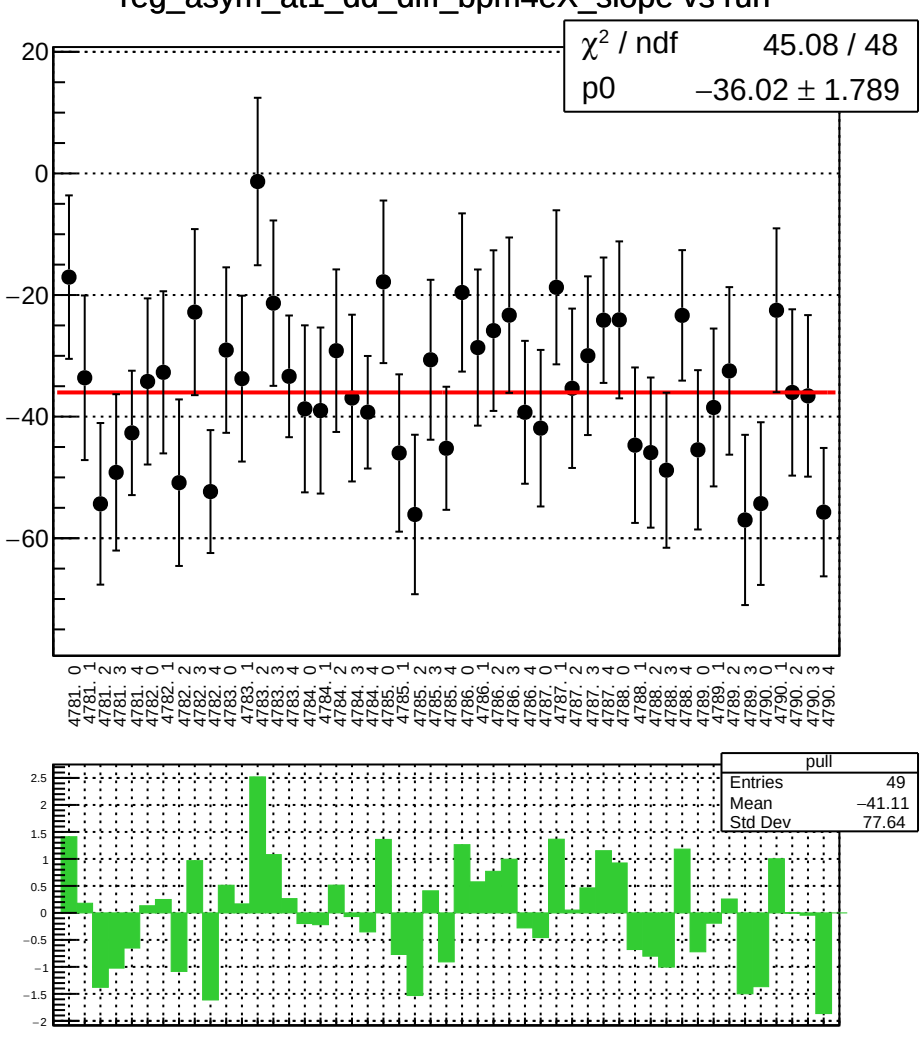

pull1D
Entries 49
Mean 0.009976
Std Dev 1.046

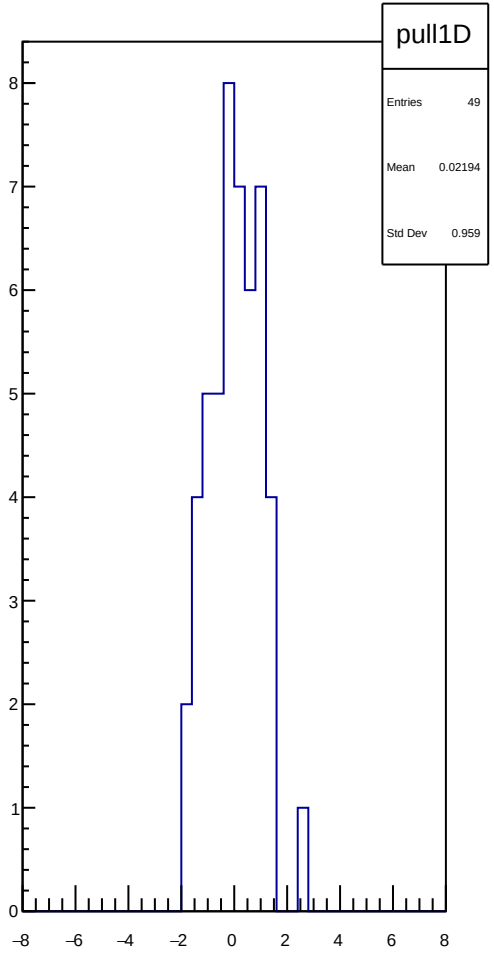

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 51.22 / 48
p0 34.22 ± 9.285
pull
Entries 49
Mean 1873
Std Dev 1845

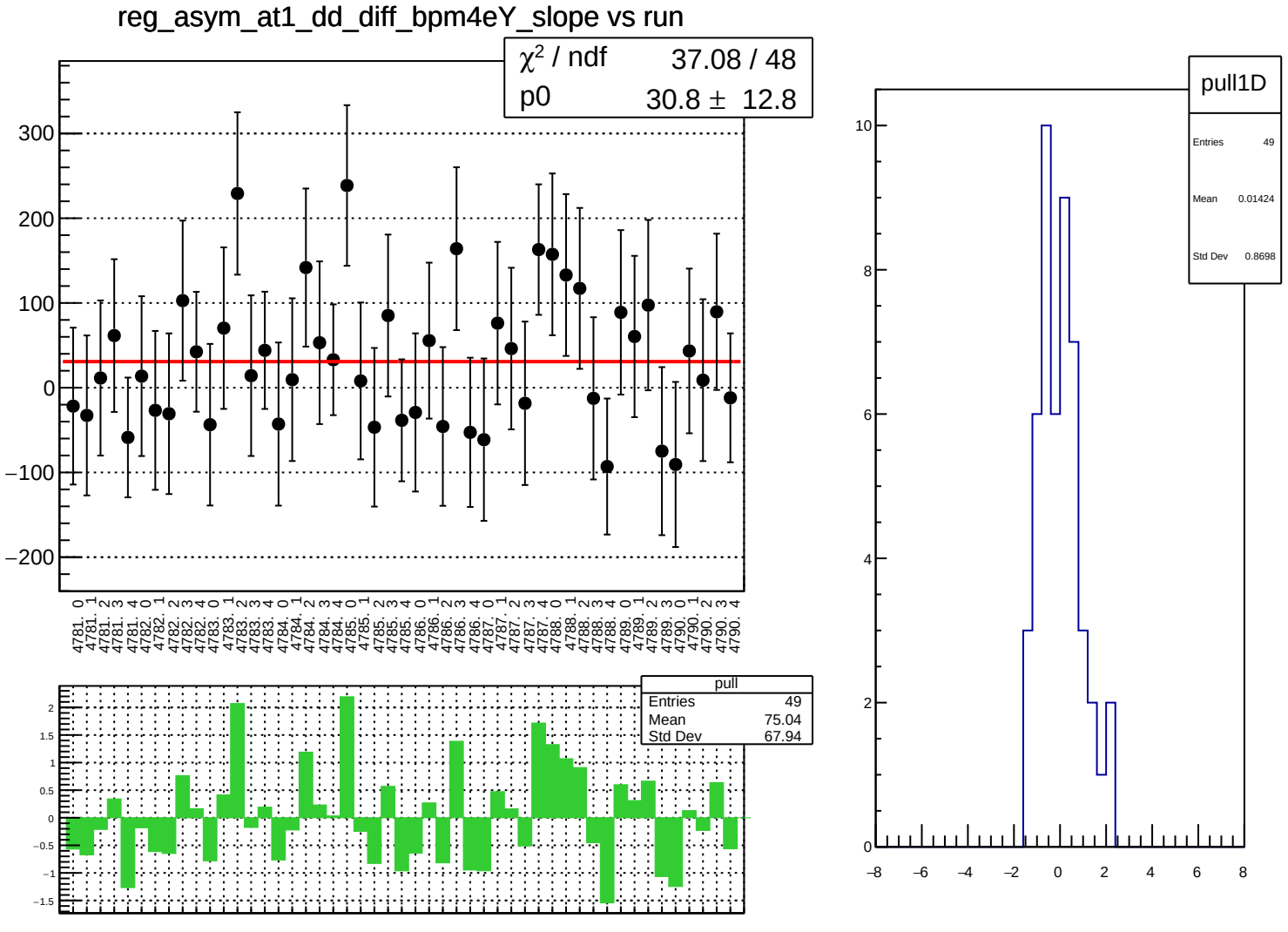

pull1D
Entries 49
Mean 0.002379
Std Dev 1.022

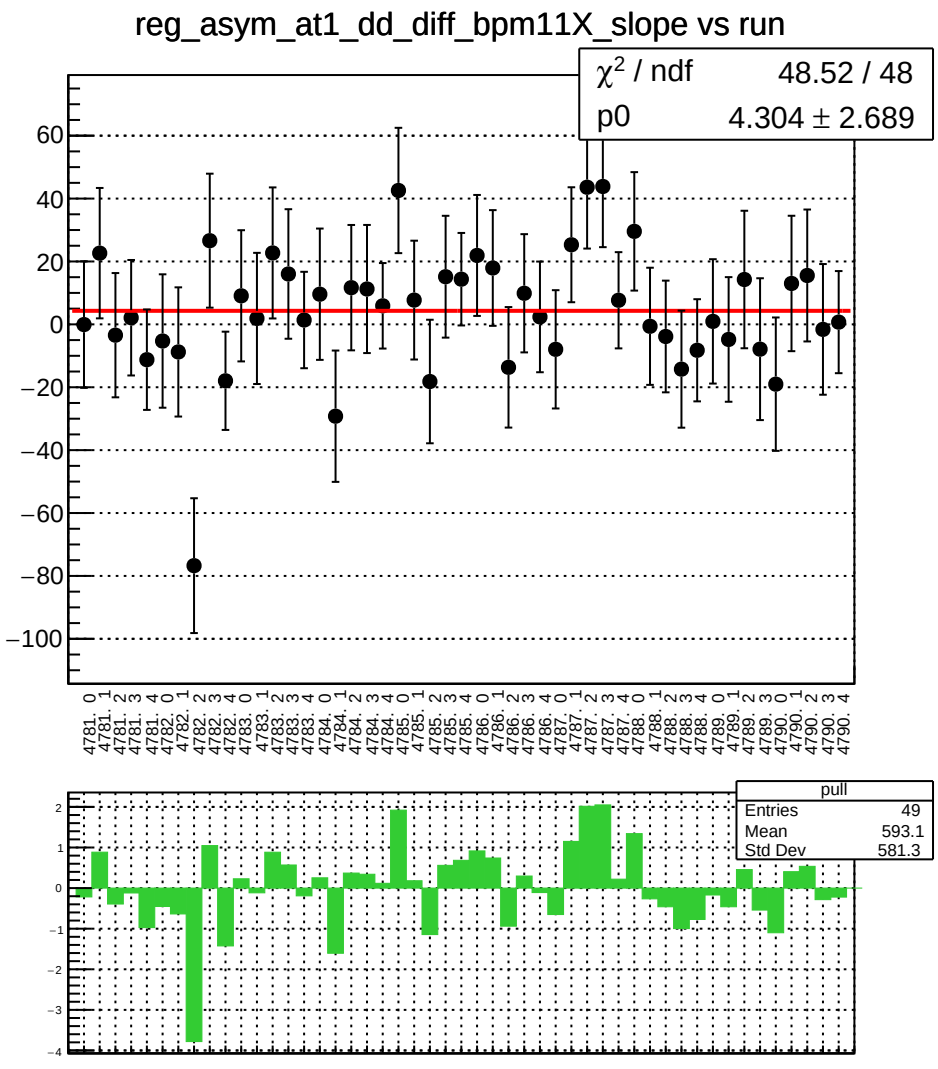

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.86 / 48
p0 −21.51± 10.62
200
100
0
−100
−200
−300
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 171
Std Dev 156
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

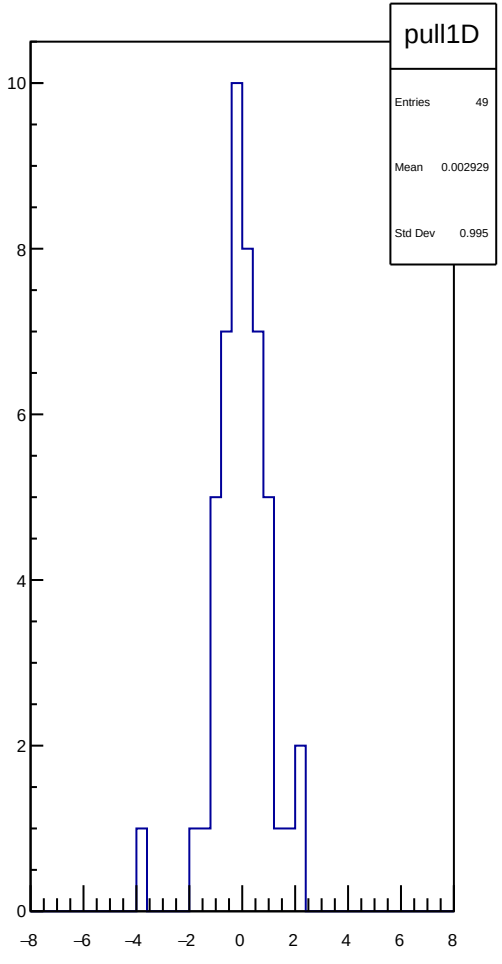

pull1D
Entries 49
Mean −0.01334
Std Dev 0.8905
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

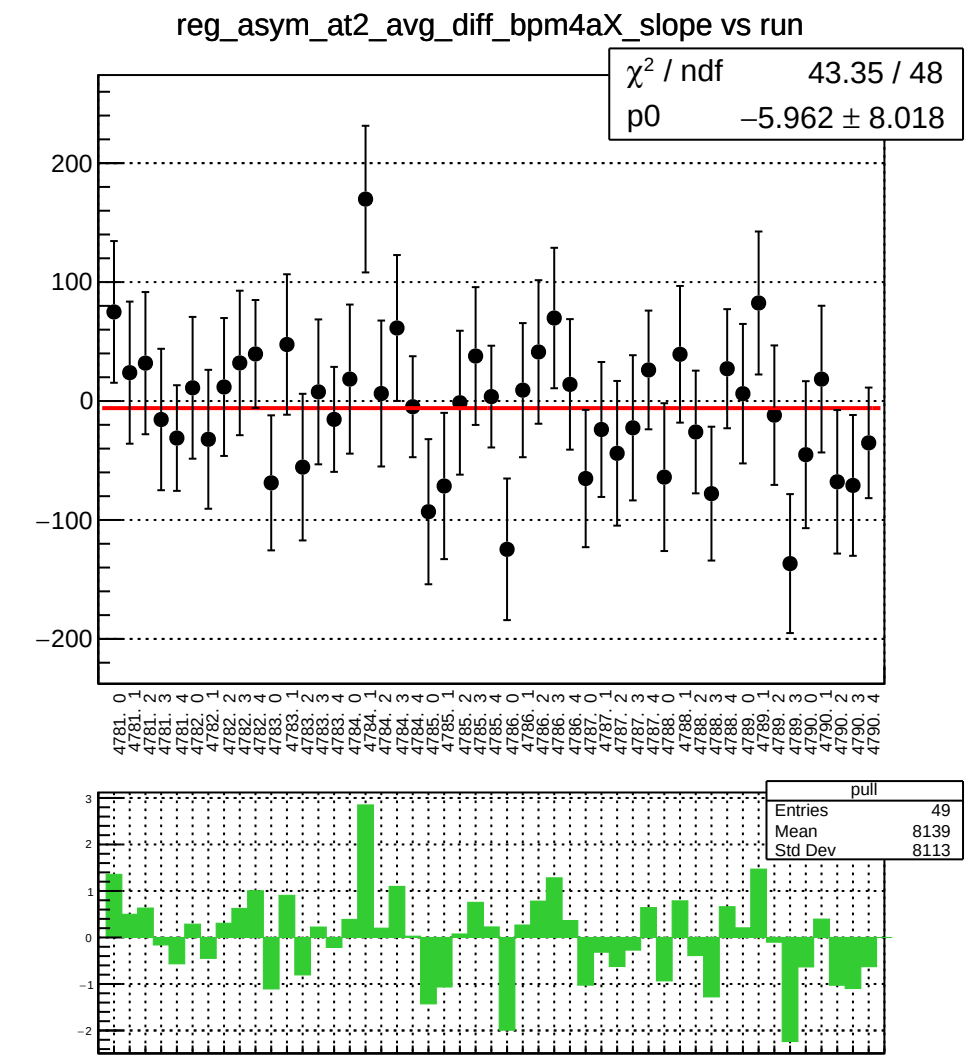

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 45.08 / 48
p0 −36.02 ± 1.789
pull
Entries 49
Mean −41.11
Std Dev 77.64

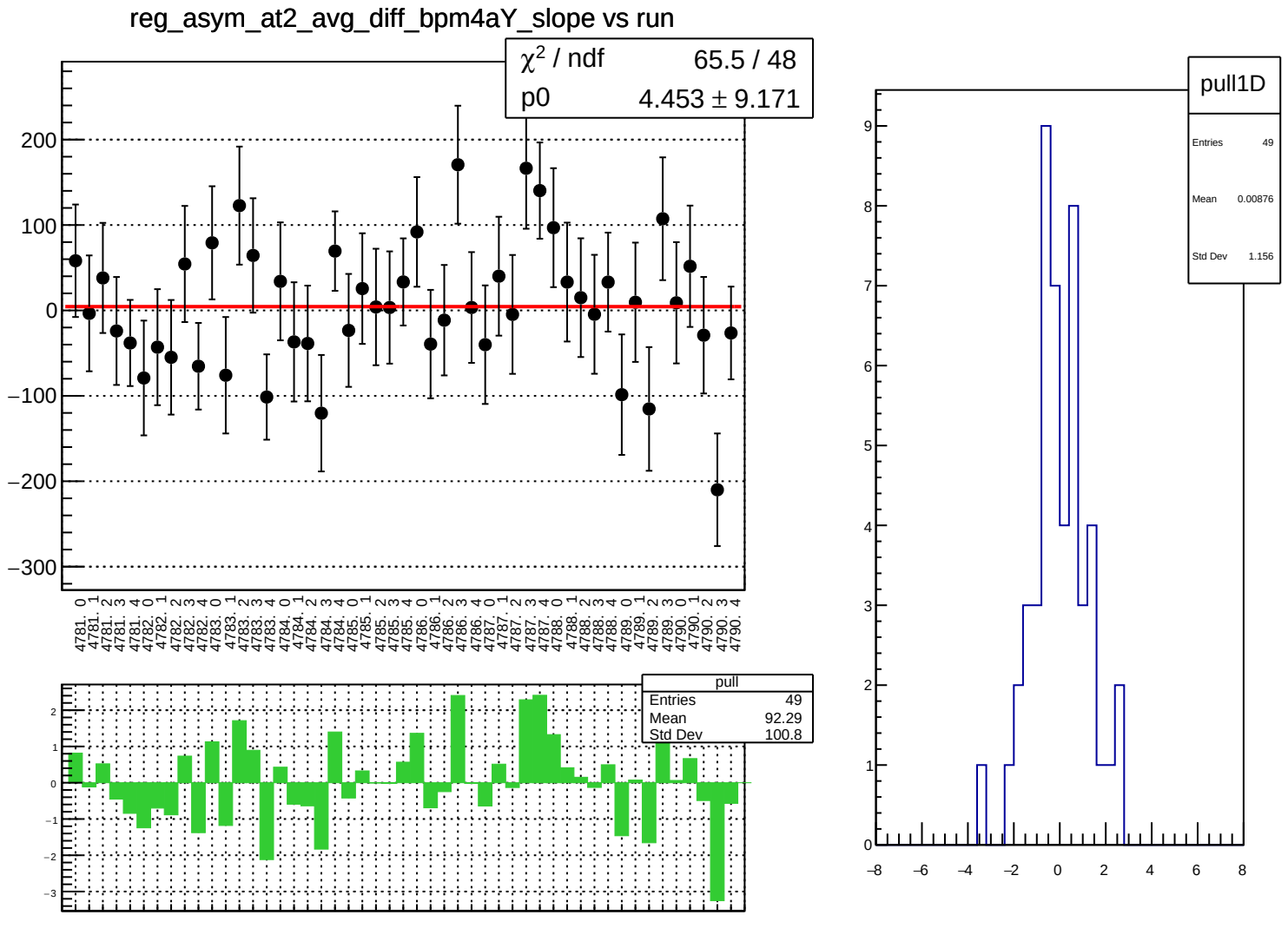

pull1D
Entries 49
Mean 0.02194
Std Dev 0.959

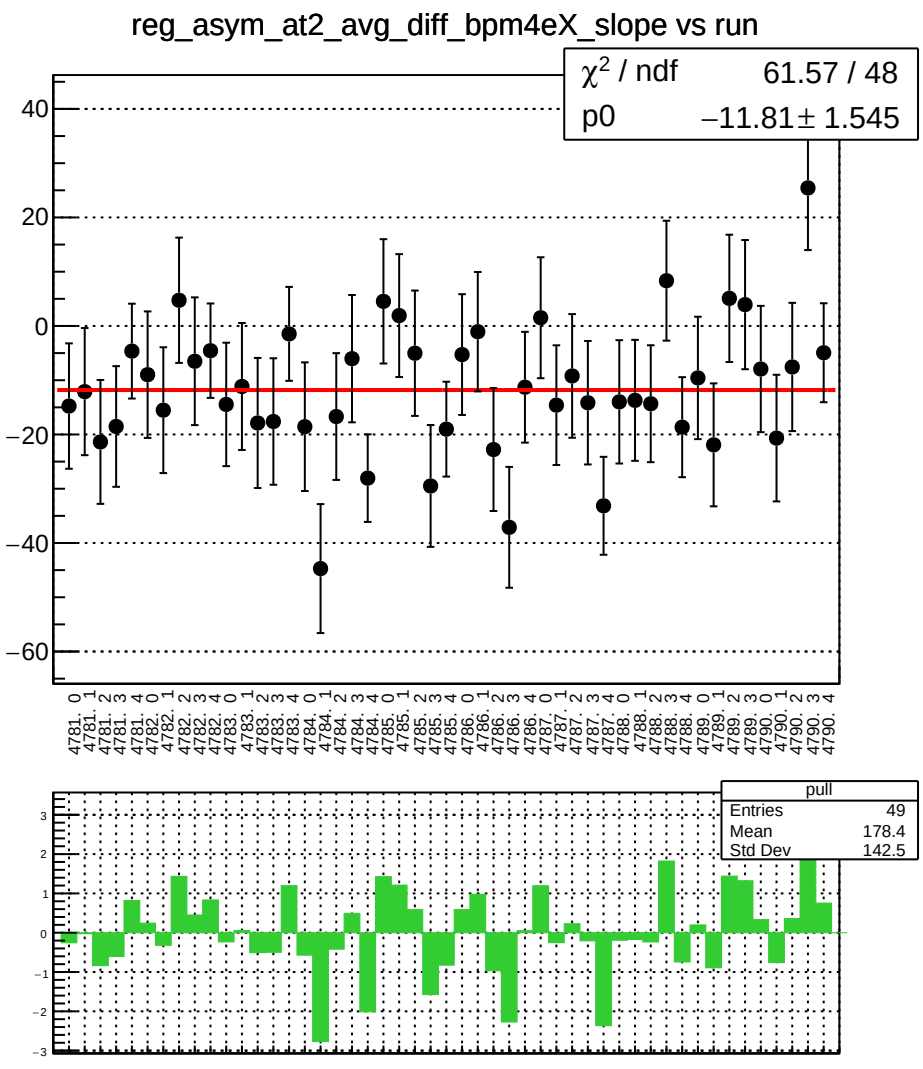

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.08 / 48
p0 30.8 ± 12.8
300
200
100
0
−100
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 75.04
Std Dev 67.94
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 49
Mean 0.01424
Std Dev 0.8698
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

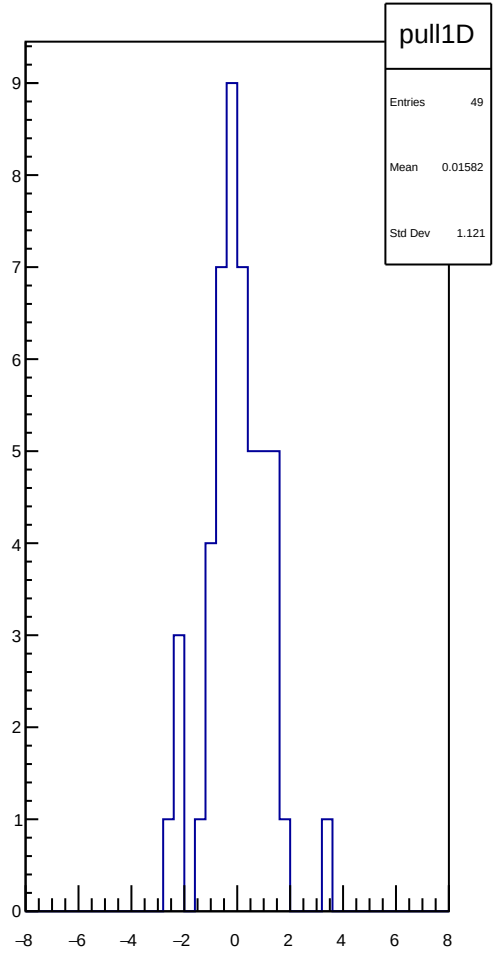

reg_asym_at1_dd_diff_bpm11X_slope vs run
χ² / ndf 48.52 / 48
p0 4.304 ± 2.689
pull
Entries 49
Mean 593.1
Std Dev 581.3

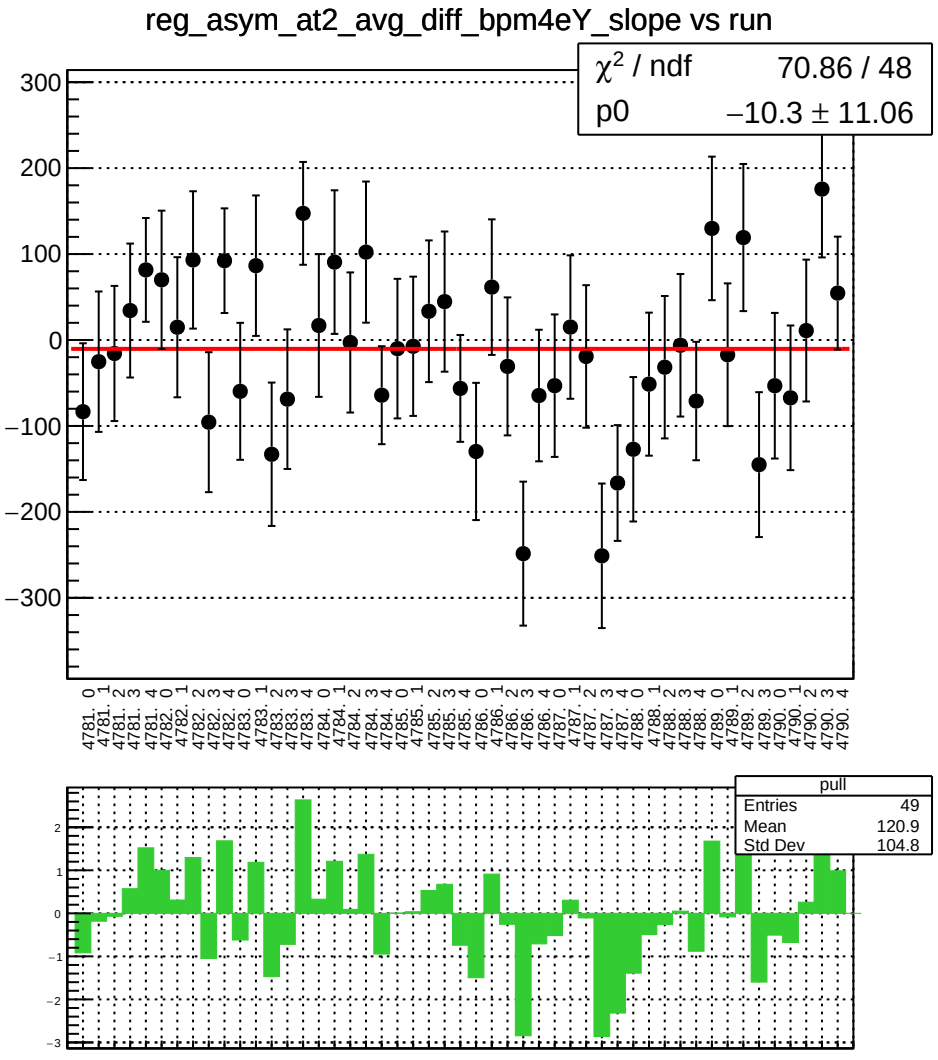

pull1D
Entries 49
Mean 0.002929
Std Dev 0.995

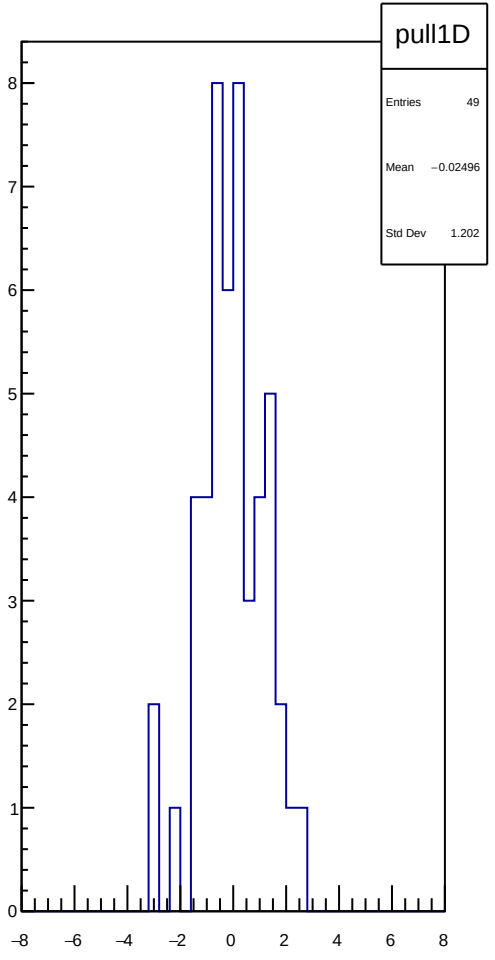

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 43.35 / 48
p0 −5.962 ± 8.018
200
100
0
−100
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 8139
Std Dev 8113
3
2
1
0
−1
−2
pull1D
Entries 49
Mean −0.0004603
Std Dev 0.9406
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

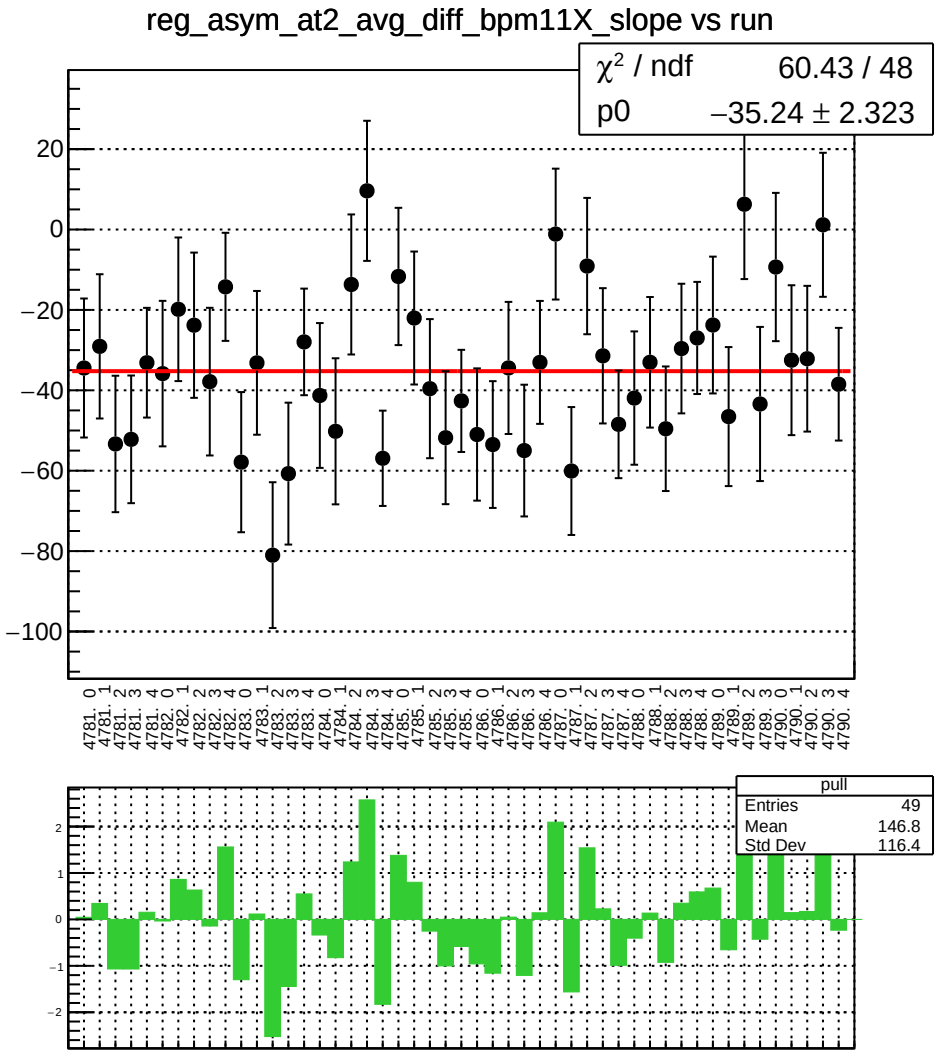

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 65.5 / 48
p0 4.453 ± 9.171
200
100
0
−100
−200
−300
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 92.29
Std Dev 100.8
2
1
0
−1
−2
−3
pull1D
Entries 49
Mean 0.00876
Std Dev 1.156
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

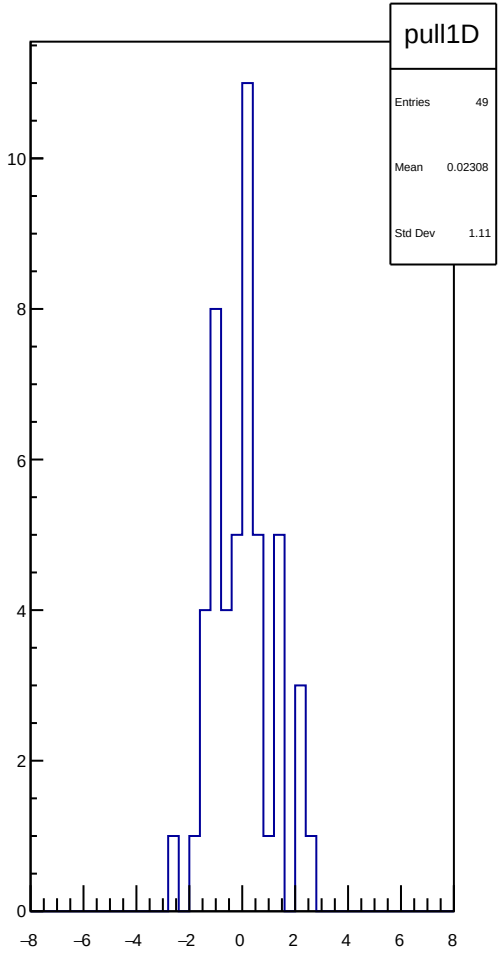

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 61.57 / 48
p0 −11.81± 1.545
pull
Entries 49
Mean 178.4
Std Dev 142.5

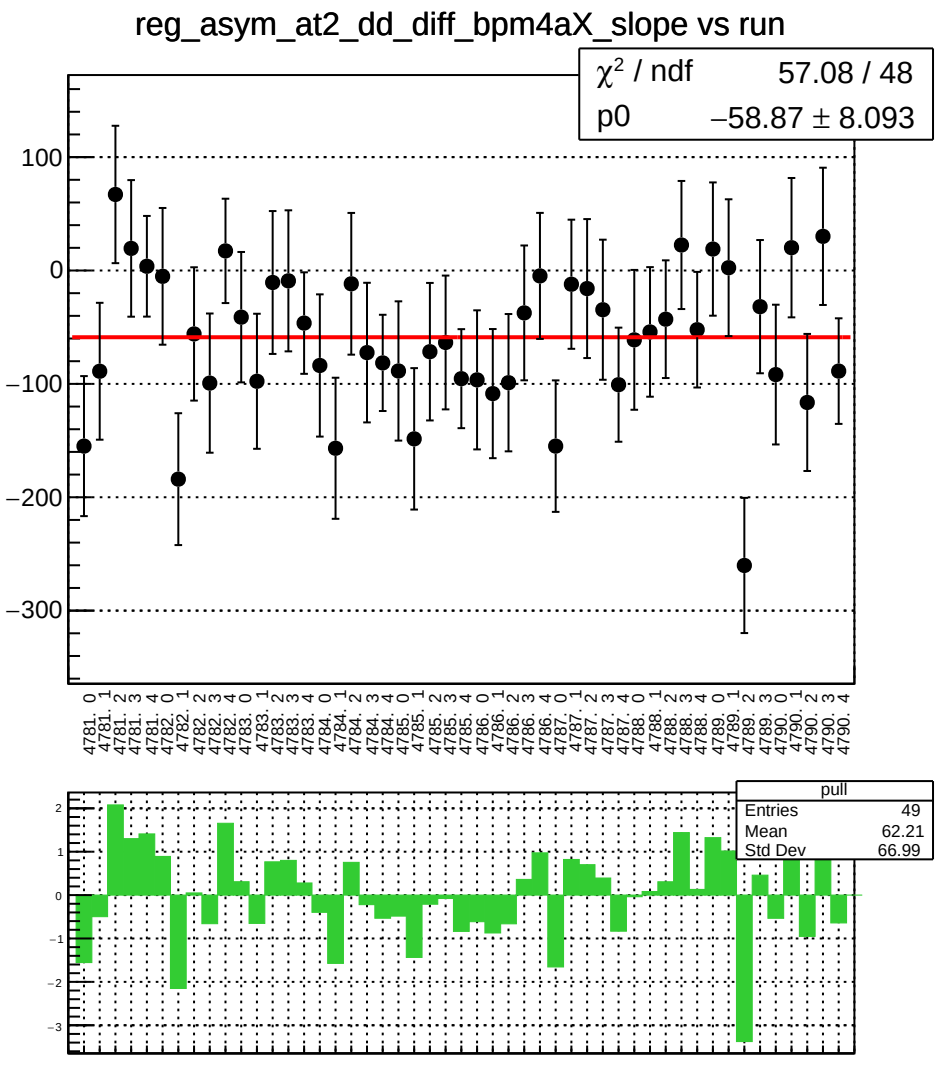

pull1D
Entries 49
Mean 0.01582
Std Dev 1.121

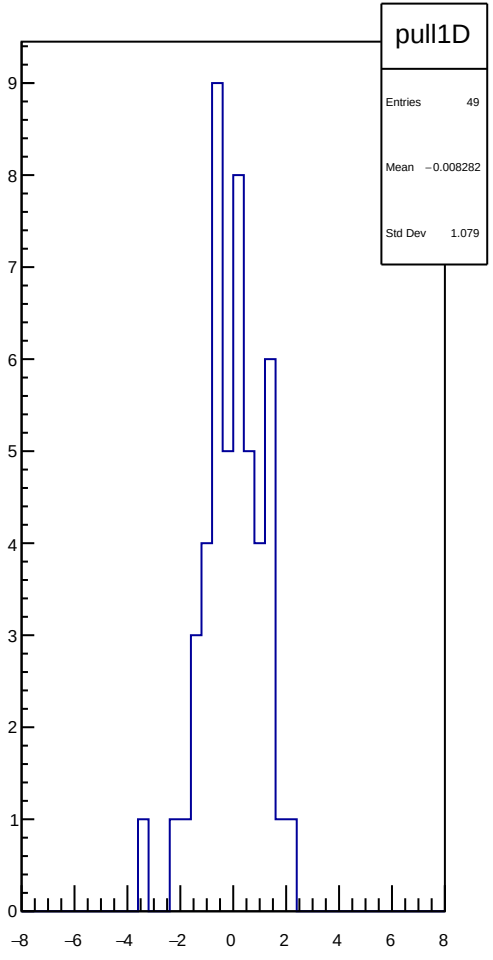

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 70.86 / 48
p0 −10.3 ± 11.06
pull
Entries 49
Mean 120.9
Std Dev 104.8

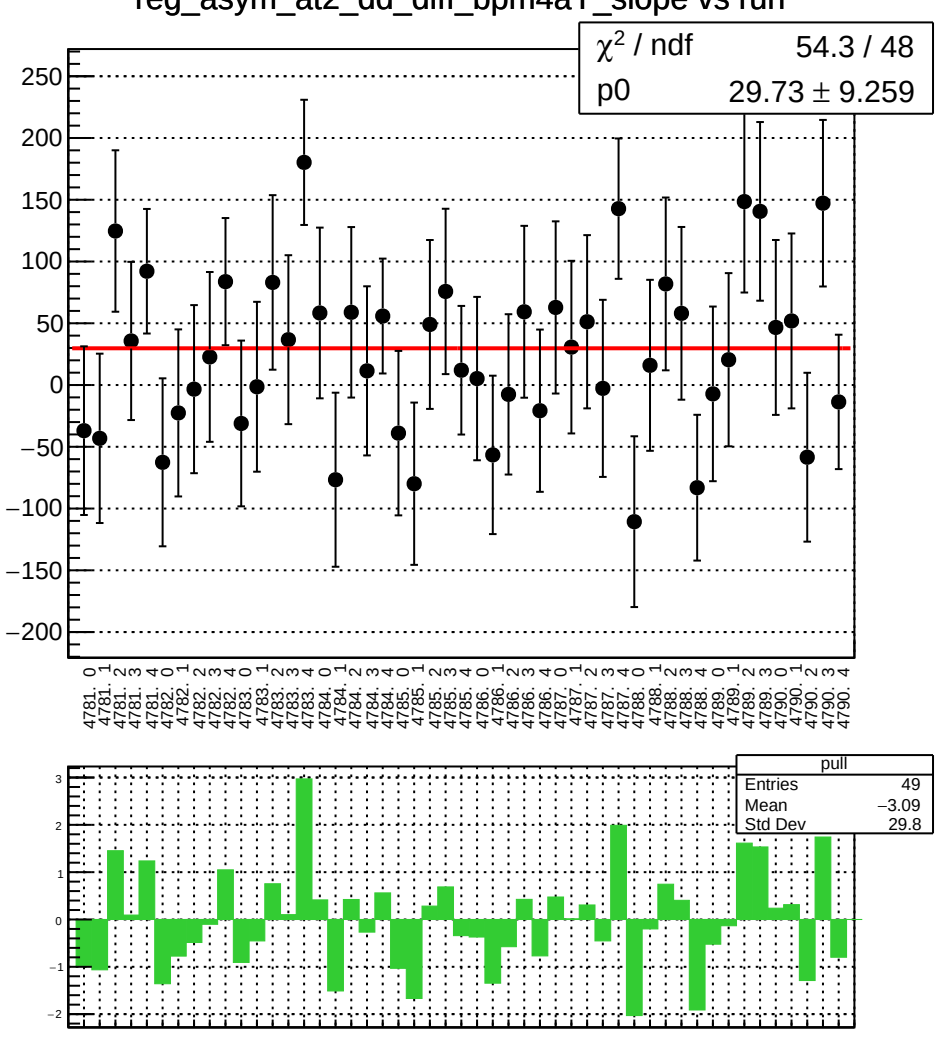

pull1D
Entries 49
Mean −0.02496
Std Dev 1.202

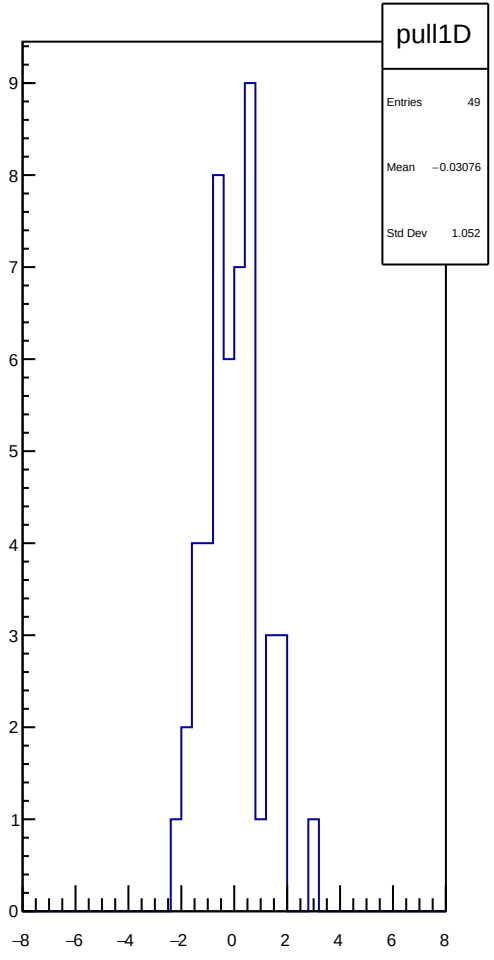

reg_asym_at2_avg_diff_bpm11X_slope vs run
χ² / ndf 60.43 / 48
p0 −35.24 ± 2.323
pull
Entries 49
Mean 146.8
Std Dev 116.4

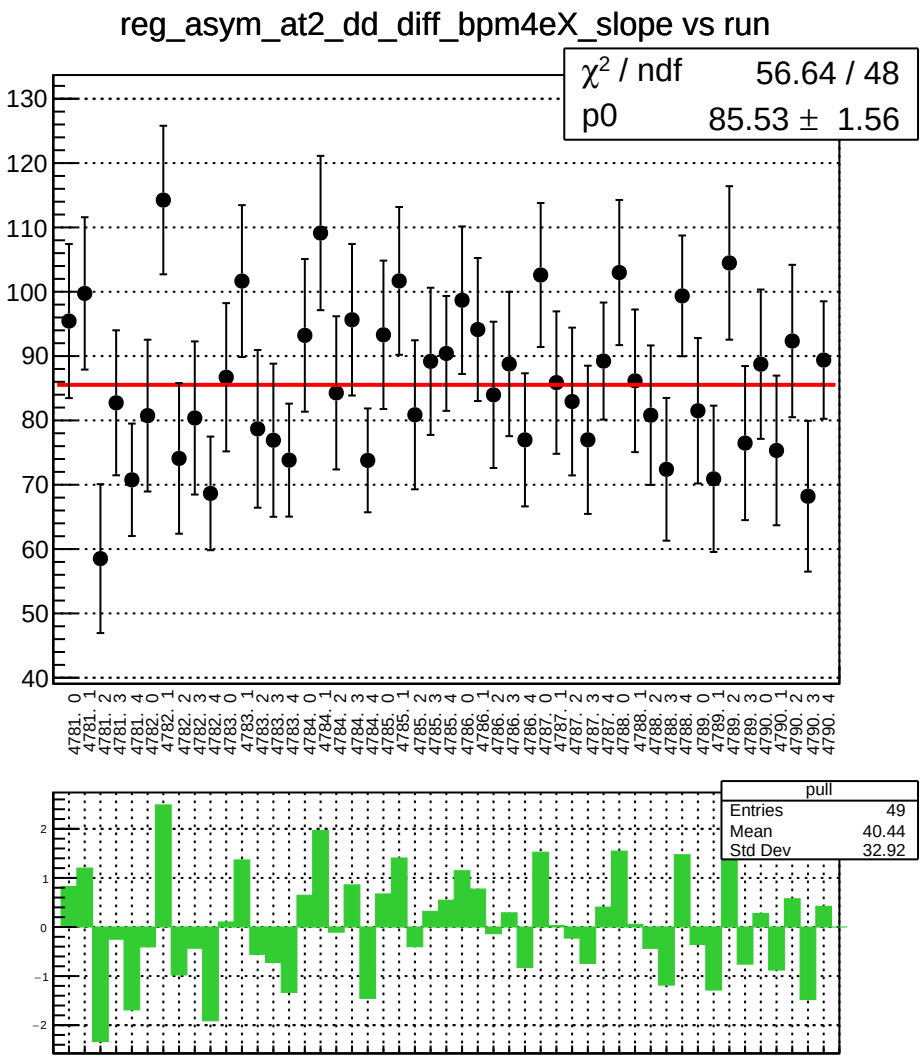

pull1D
Entries 49
Mean 0.02308
Std Dev 1.11

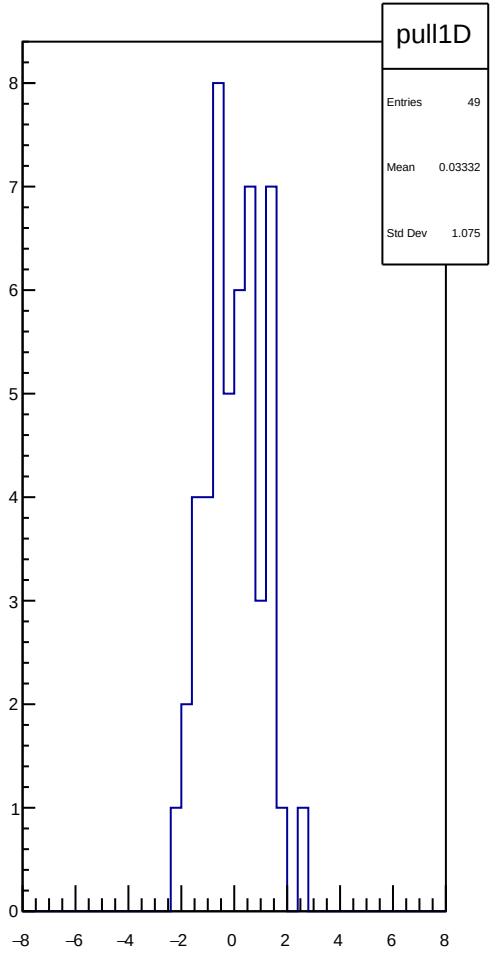

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 57.08 / 48
p0 −58.87 ± 8.093
100
0
−100
−200
−300
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 62.21
Std Dev 66.99
2
1
0
−1
−2
−3

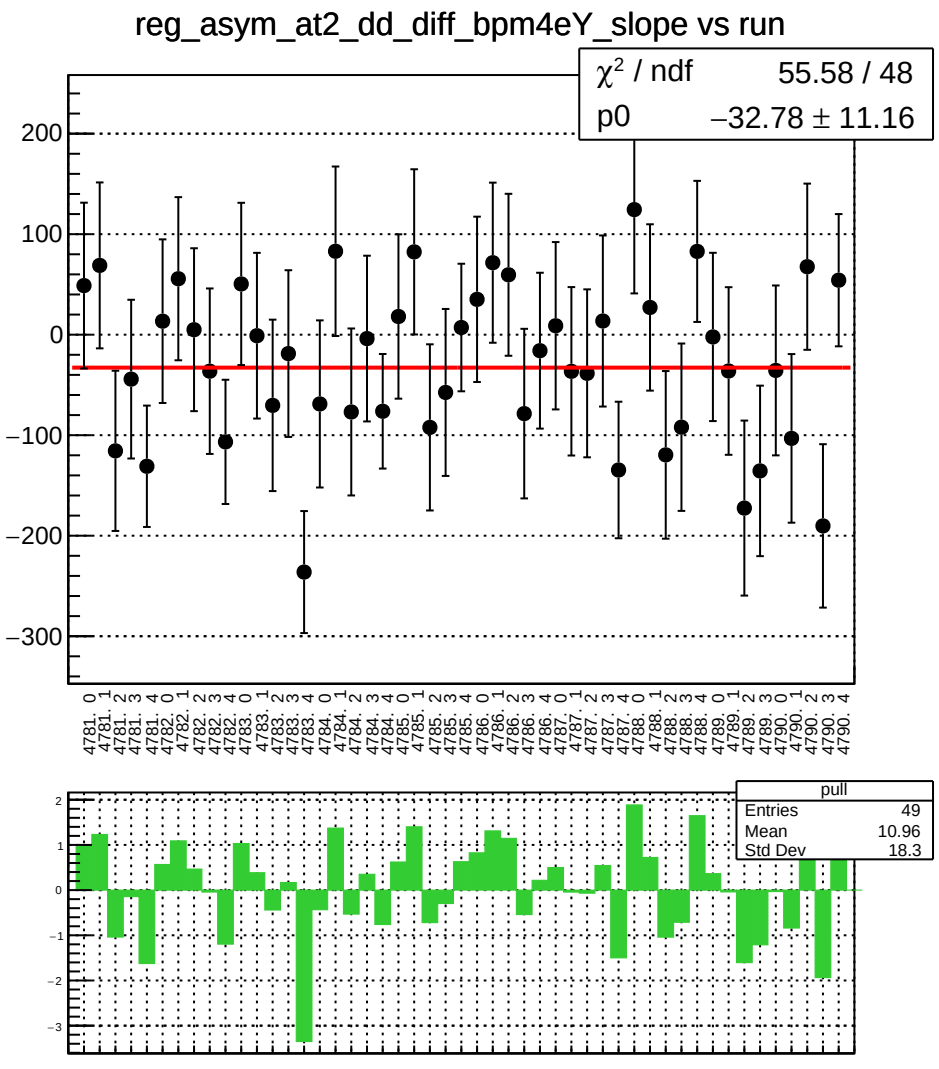

pull1D
Entries 49
Mean −0.008282
Std Dev 1.079
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

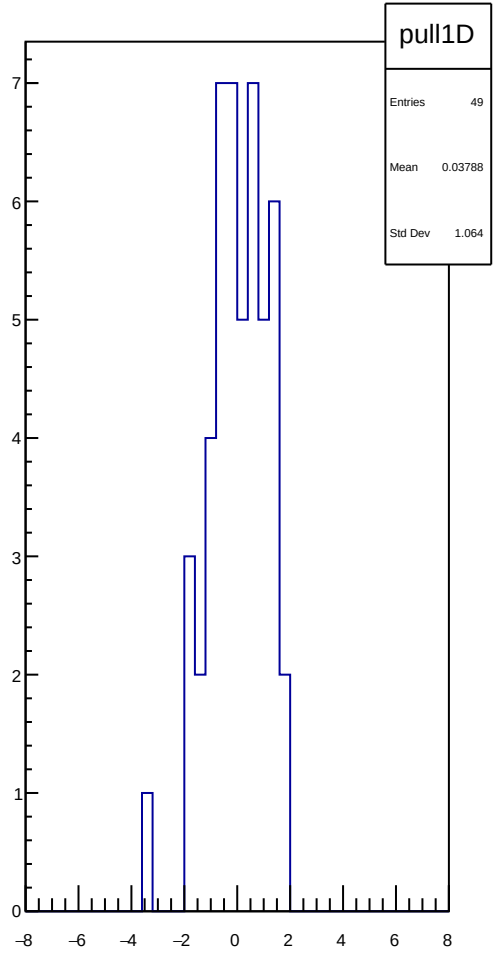

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 54.3 / 48
p0 29.73 ± 9.259
pull
Entries 49
Mean −3.09
Std Dev 29.8

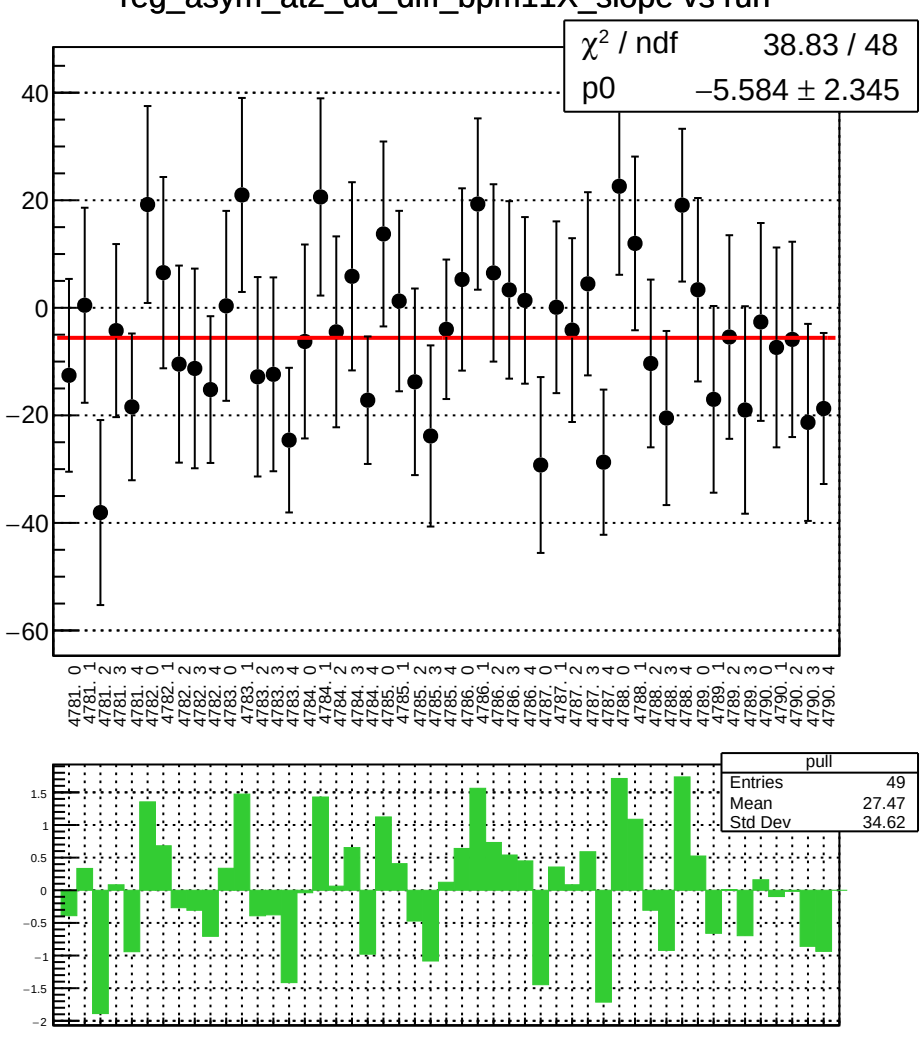

pull1D
Entries 49
Mean −0.03076
Std Dev 1.052

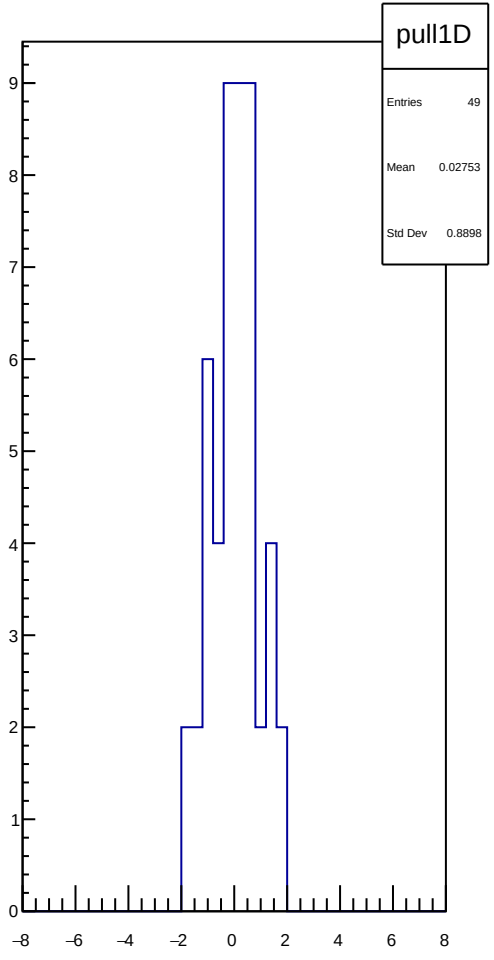

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 56.64 / 48
p0 85.53 ± 1.56
pull
Entries 49
Mean 40.44
Std Dev 32.92

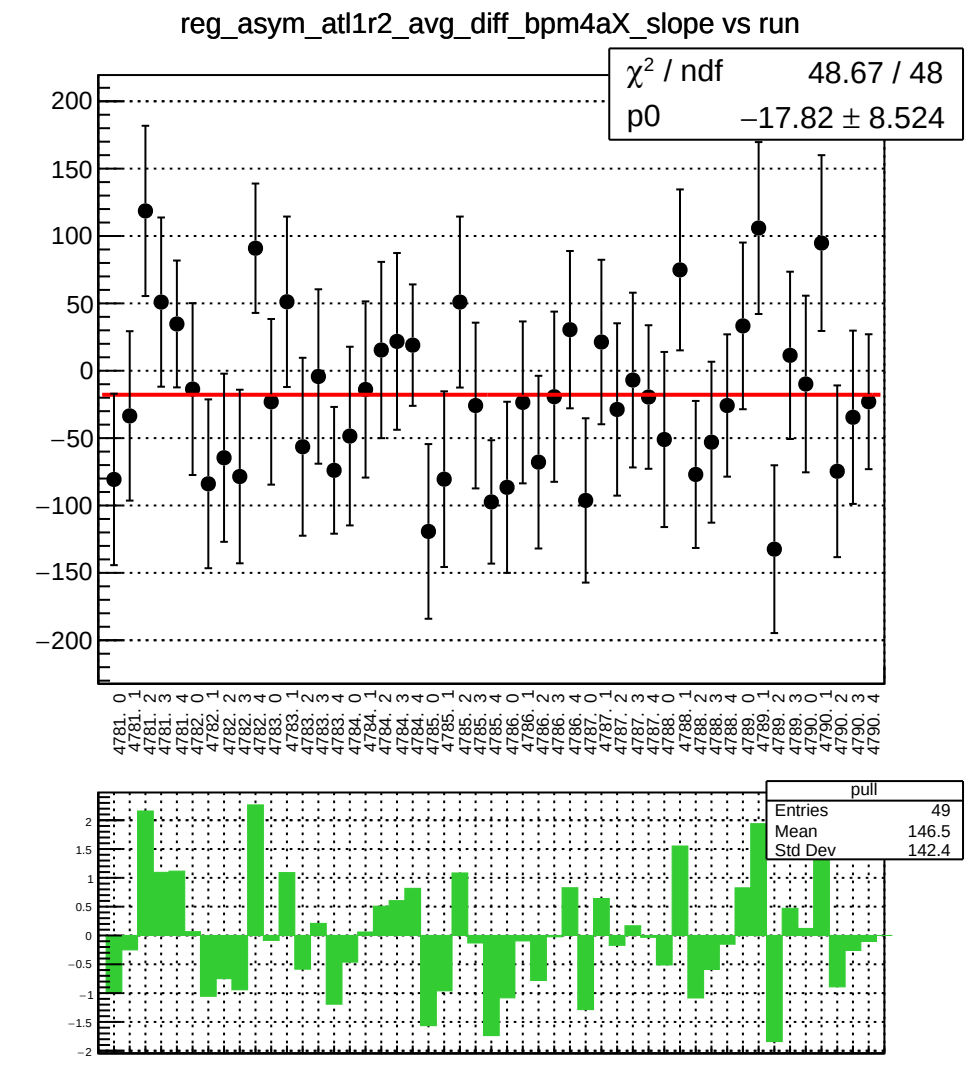

pull1D
Entries 49
Mean 0.03332
Std Dev 1.075

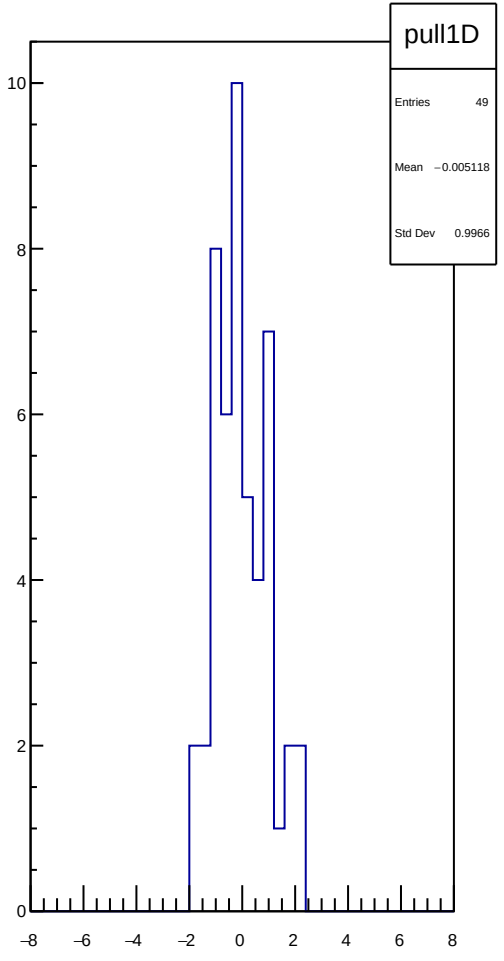

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.58 / 48
p0 −32.78 ± 11.16
200
100
0
−100
−200
−300
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 10.96
Std Dev 18.3
2
1
0
−1
−2
−3

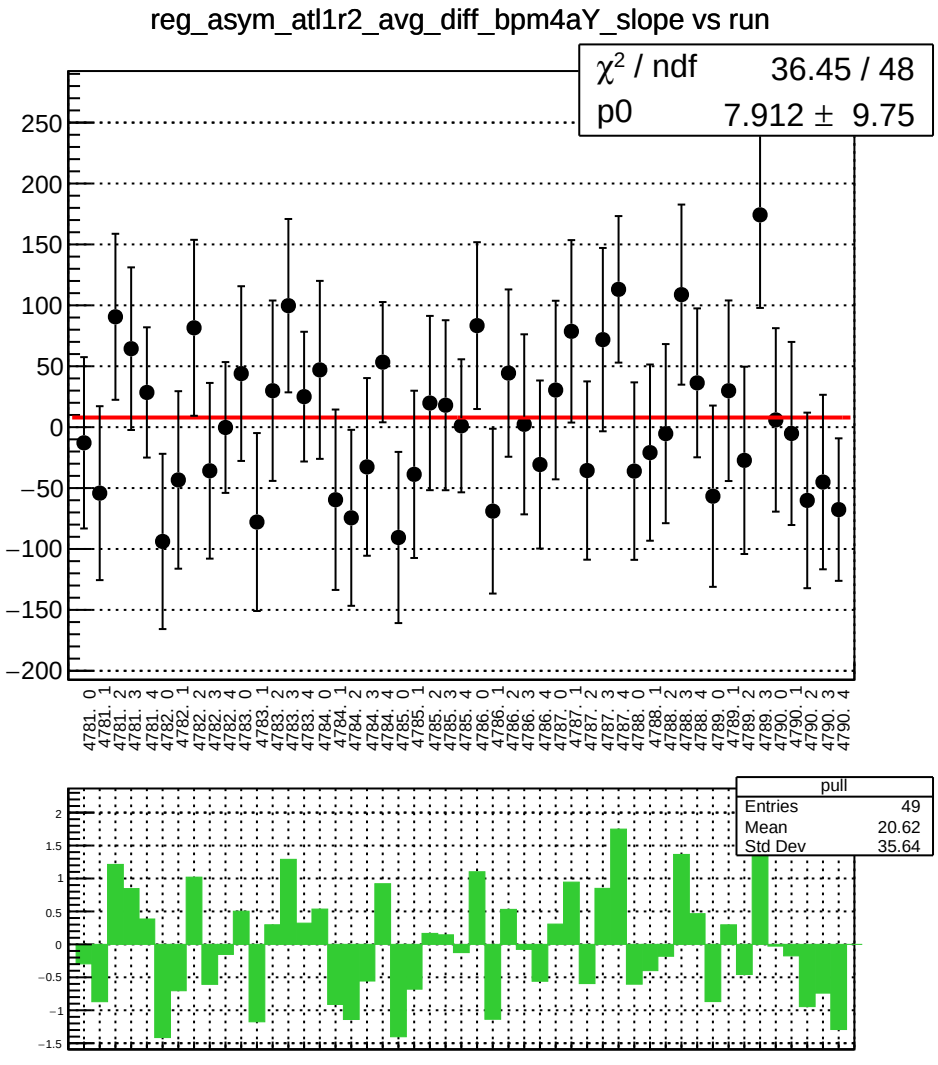

pull1D
Entries 49
Mean 0.03788
Std Dev 1.064
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

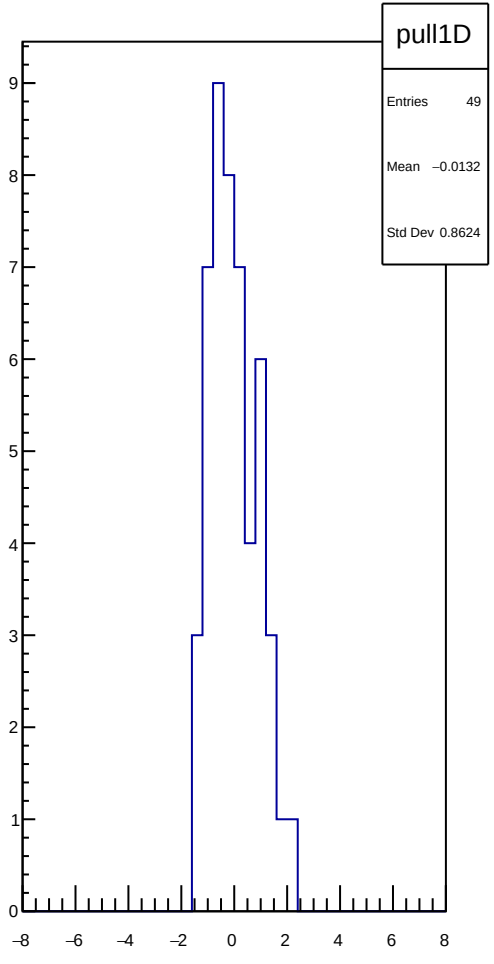

reg_asym_at2_dd_diff_bpm11X_slope vs run
χ² / ndf 38.83 / 48
p0 −5.584 ± 2.345
pull
Entries 49
Mean 27.47
Std Dev 34.62

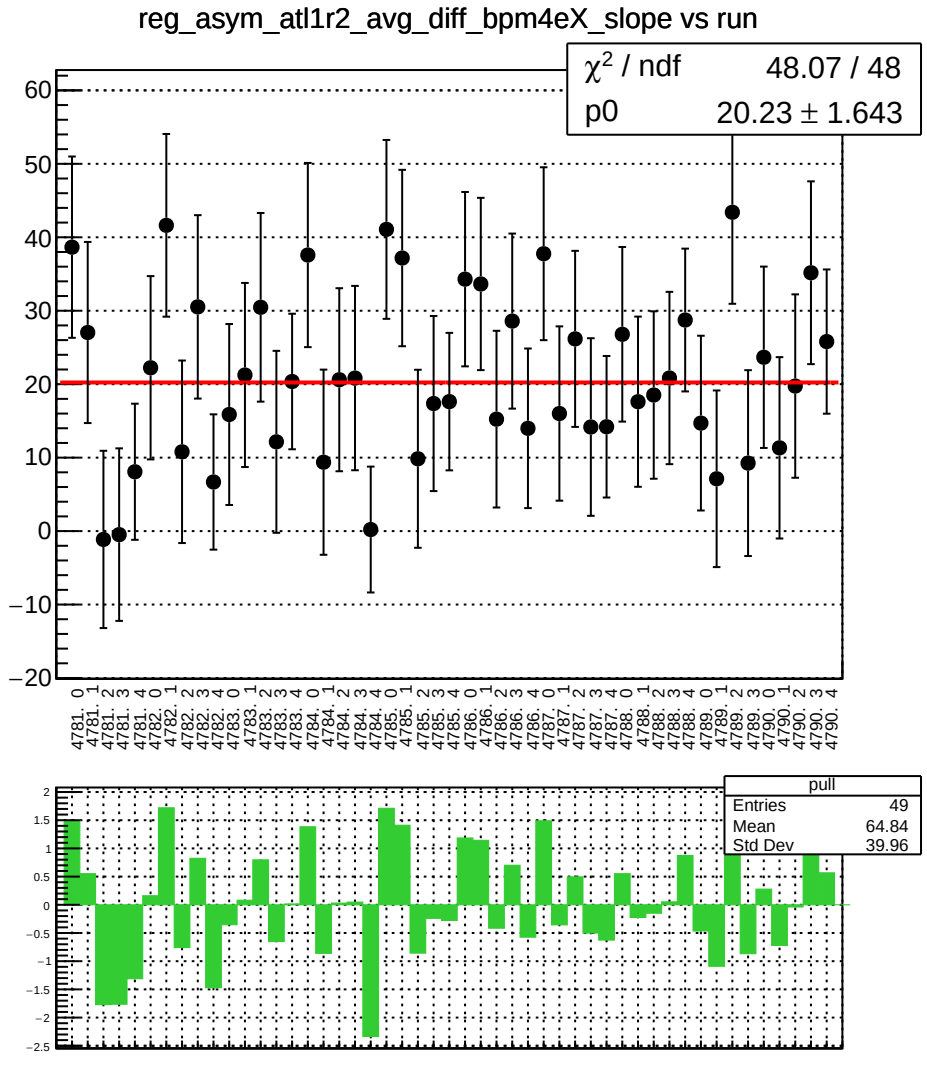

pull1D
Entries 49
Mean 0.02753
Std Dev 0.8898

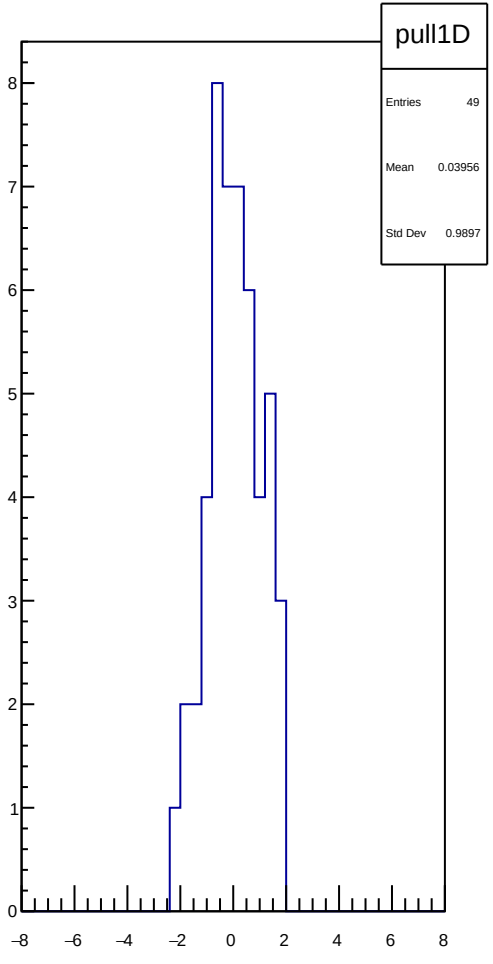

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 48.67 / 48
p0 −17.82 ± 8.524
pull
Entries 49
Mean 146.5
Std Dev 142.4

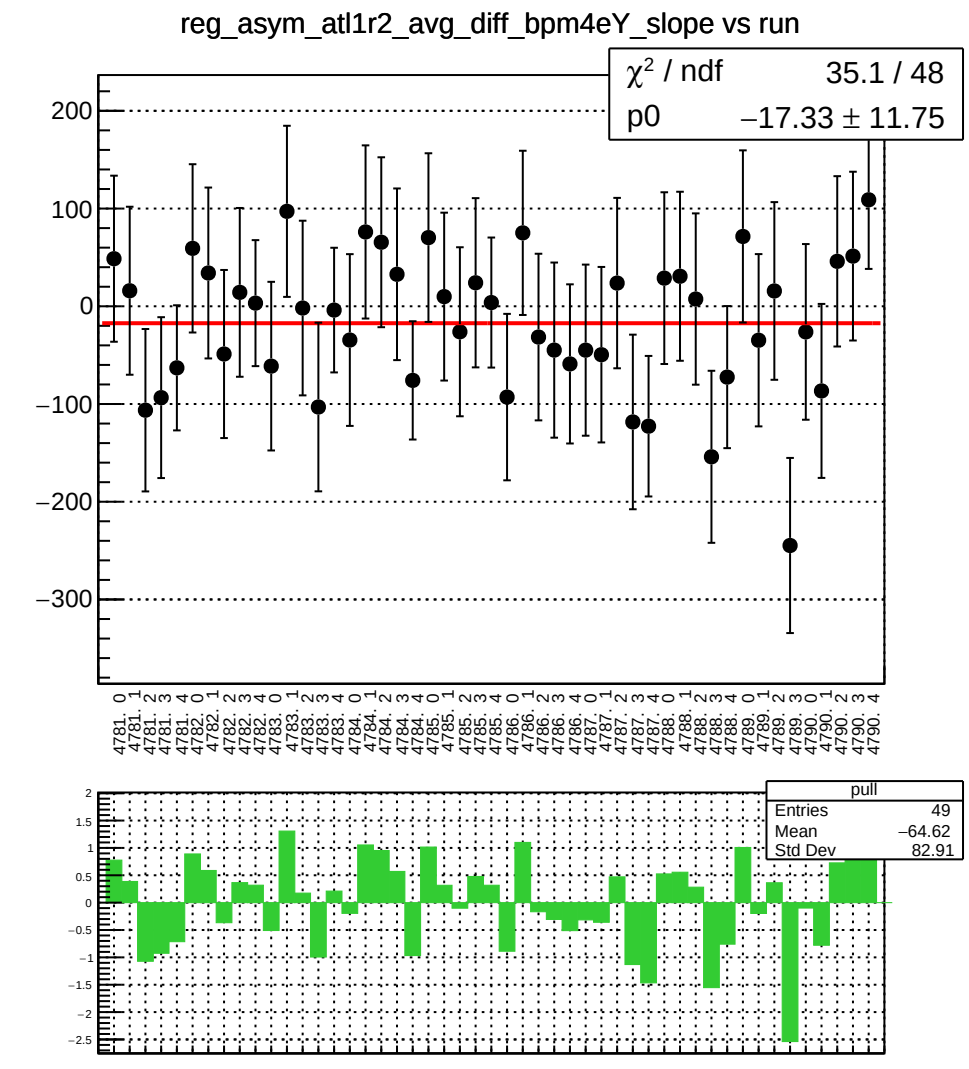

pull1D
Entries 49
Mean −0.005118
Std Dev 0.9966

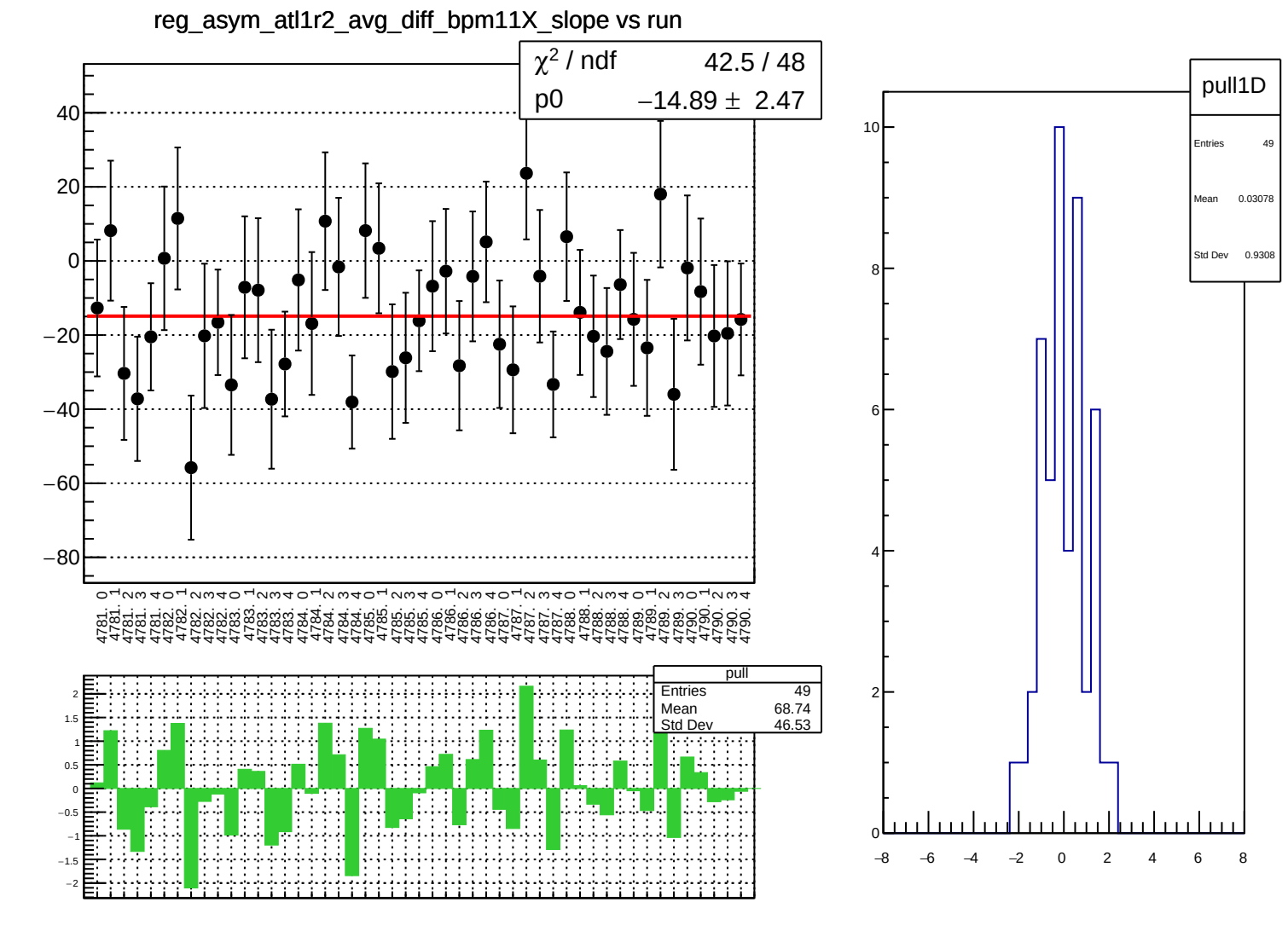

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 36.45 / 48
p0 7.912 ± 9.75
pull
Entries 49
Mean 20.62
Std Dev 35.64

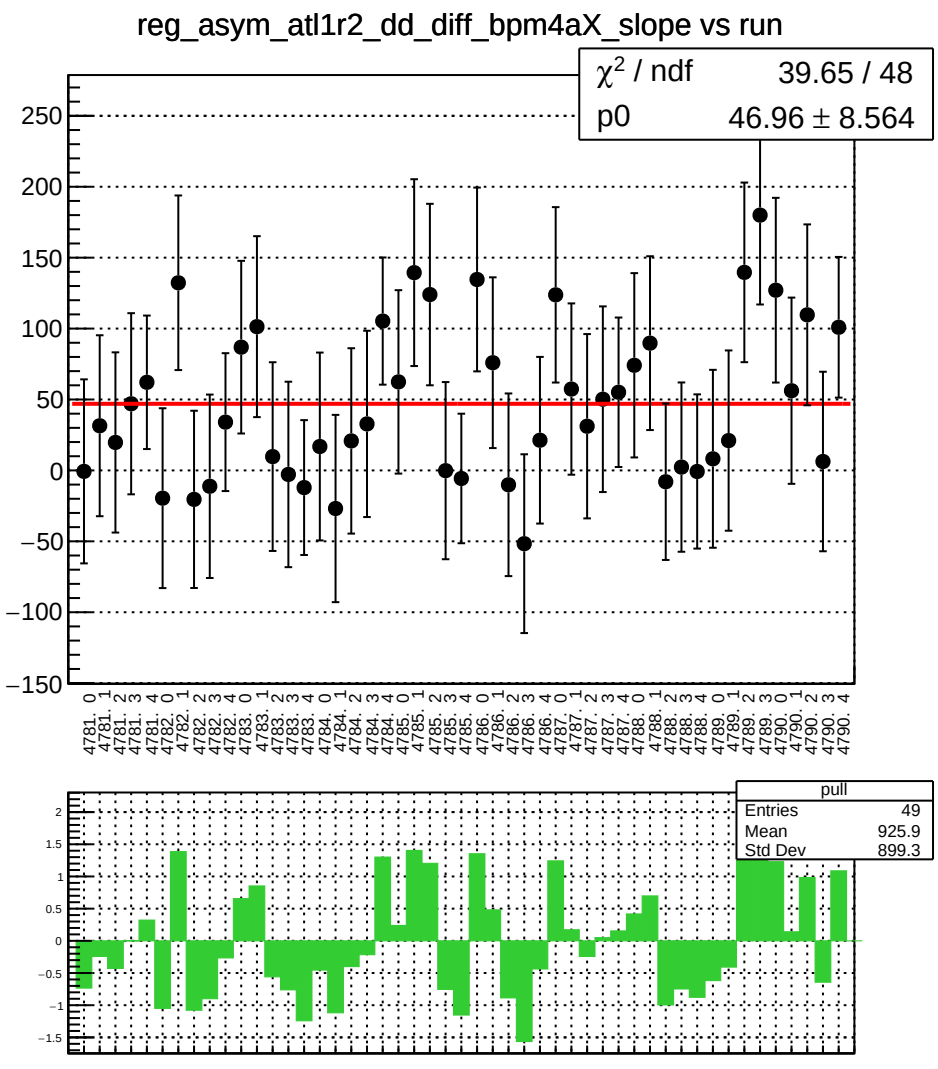

pull1D
Entries 49
Mean −0.0132
Std Dev 0.8624

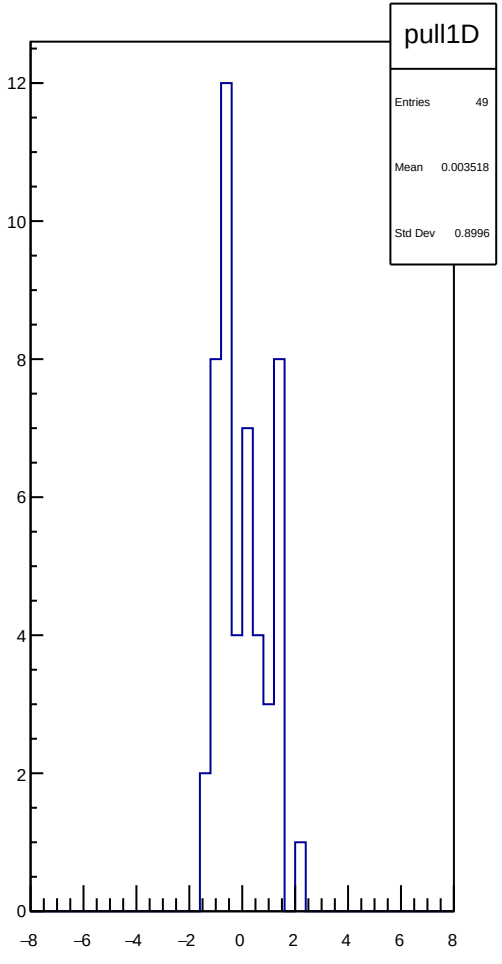

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 48.07 / 48
p0 20.23 ± 1.643
pull
Entries 49
Mean 64.84
Std Dev 39.96

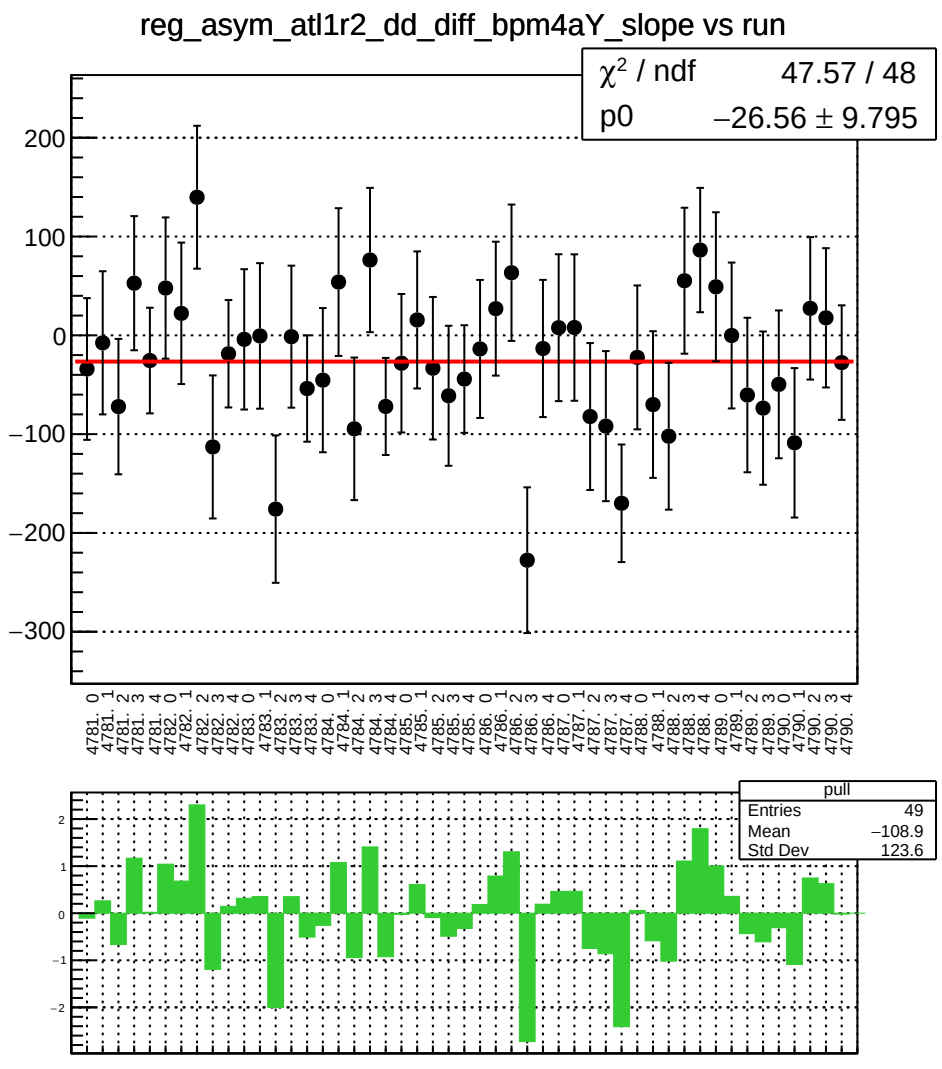

pull1D
Entries 49
Mean 0.03956
Std Dev 0.9897

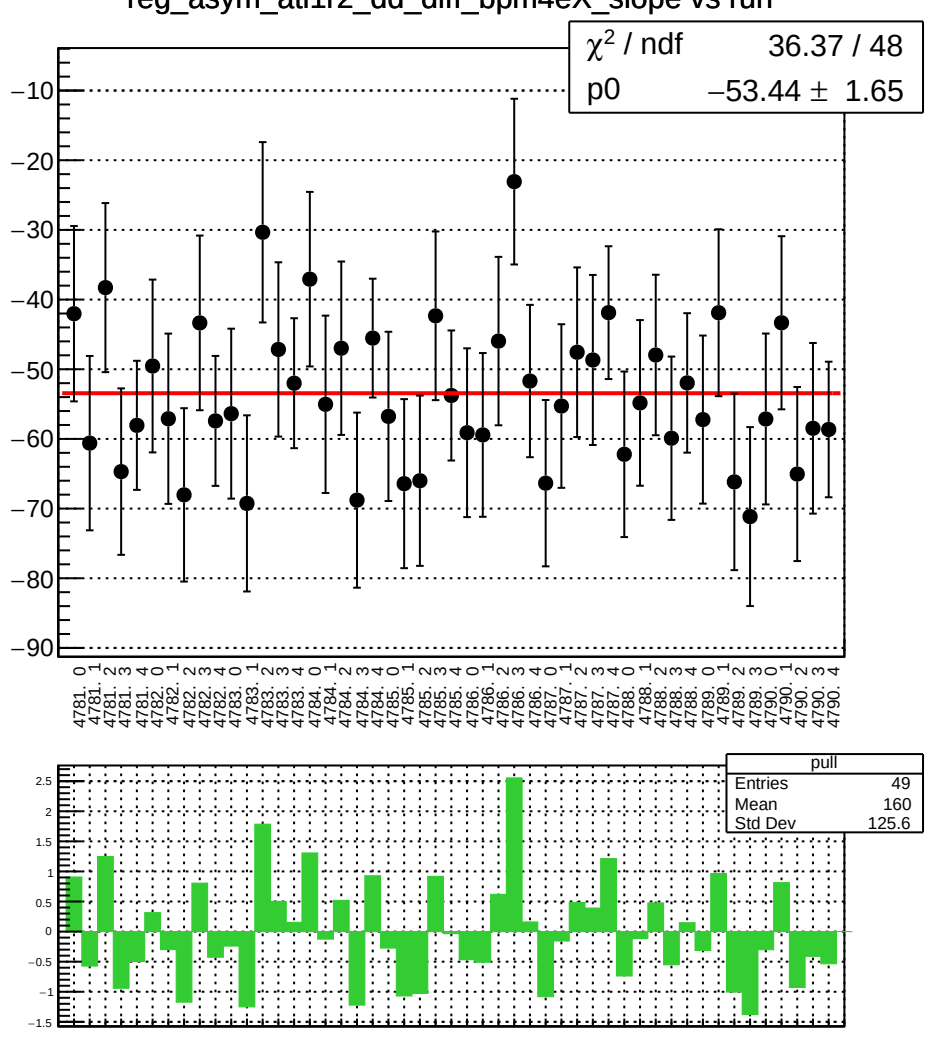

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.1 / 48
p0 −17.33 ± 11.75
200
100
0
−100
−200
−300
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4798. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −64.62
Std Dev 82.91
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 49
Mean 0.00872
Std Dev 0.8463
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

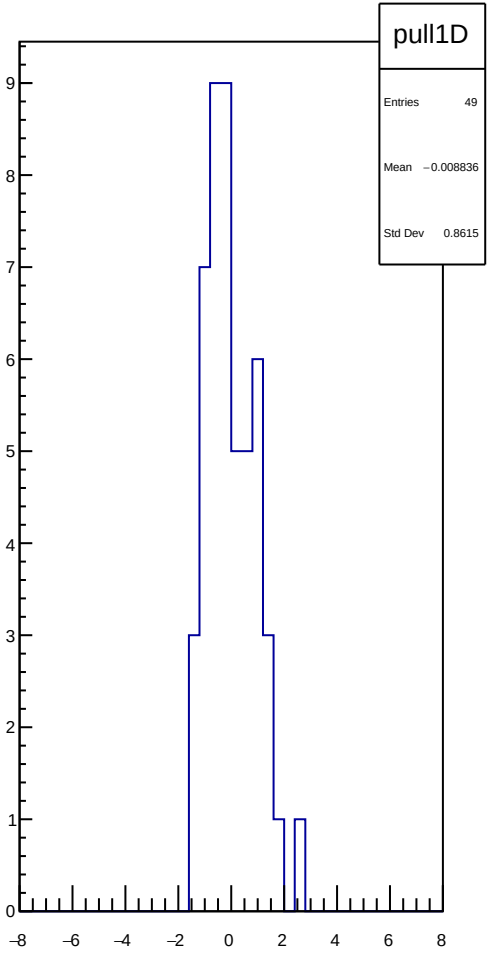

reg_asym_atl1r2_avg_diff_bpm11X_slope vs run
χ² / ndf 42.5 / 48
p0 −14.89 ± 2.47
pull
Entries 49
Mean 68.74
Std Dev 46.53
pull1D
Entries 49
Mean 0.03078
Std Dev 0.9308

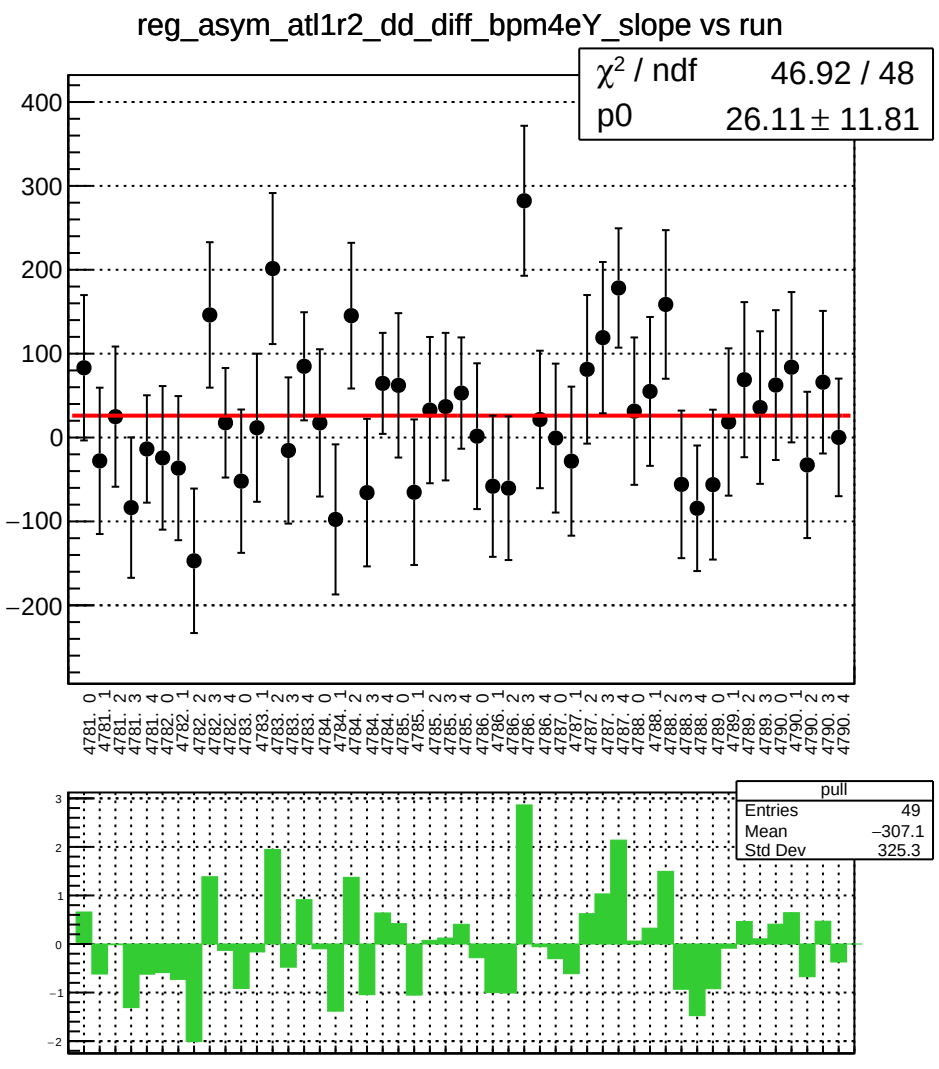

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 39.65 / 48
p0 46.96 ± 8.564
pull
Entries 49
Mean 925.9
Std Dev 899.3

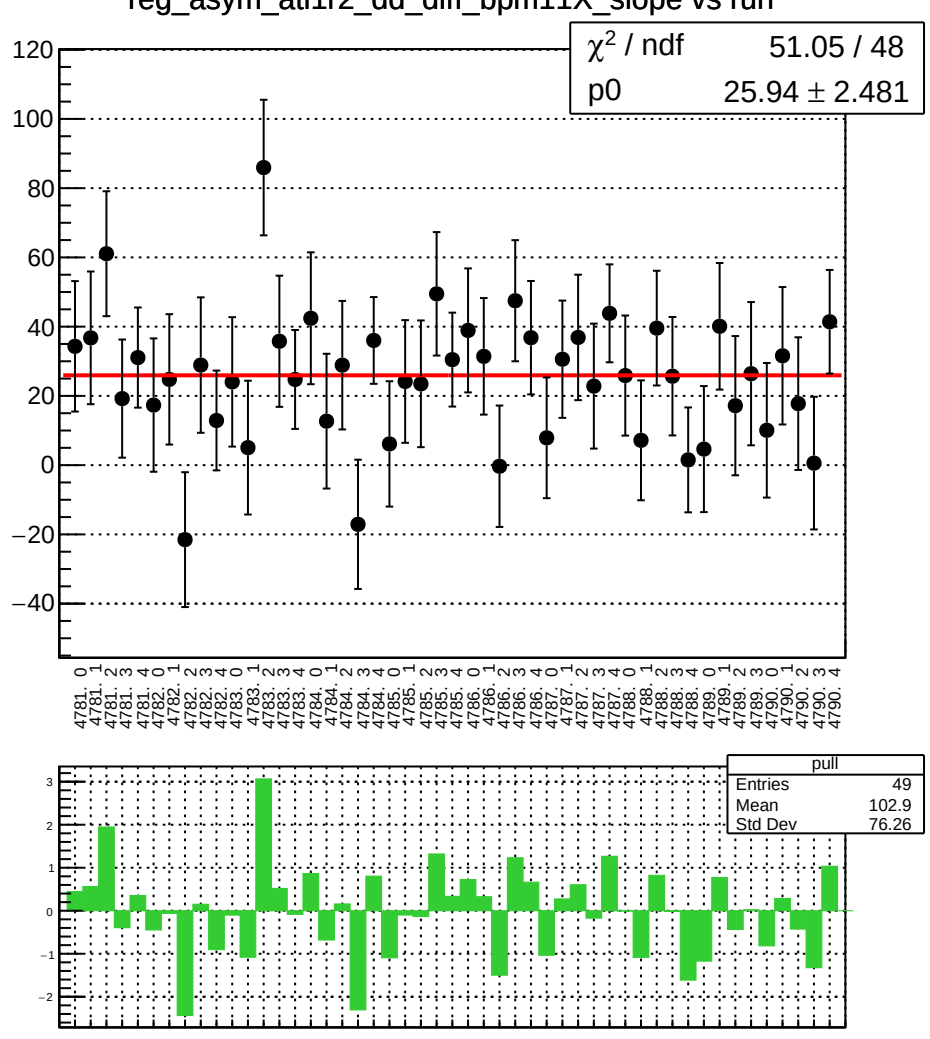

pull1D
Entries 49
Mean 0.003518
Std Dev 0.8996

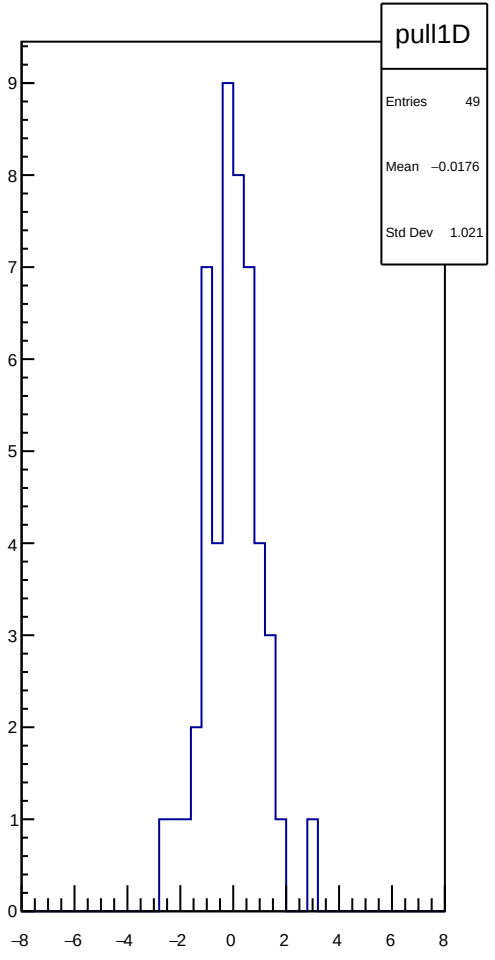

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.57 / 48
p0 −26.56 ± 9.795
200
100
0
−100
−200
−300
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −108.9
Std Dev 123.6
2
1
0
−1
−2
pull1D
Entries 49
Mean 0.01001
Std Dev 0.9852
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

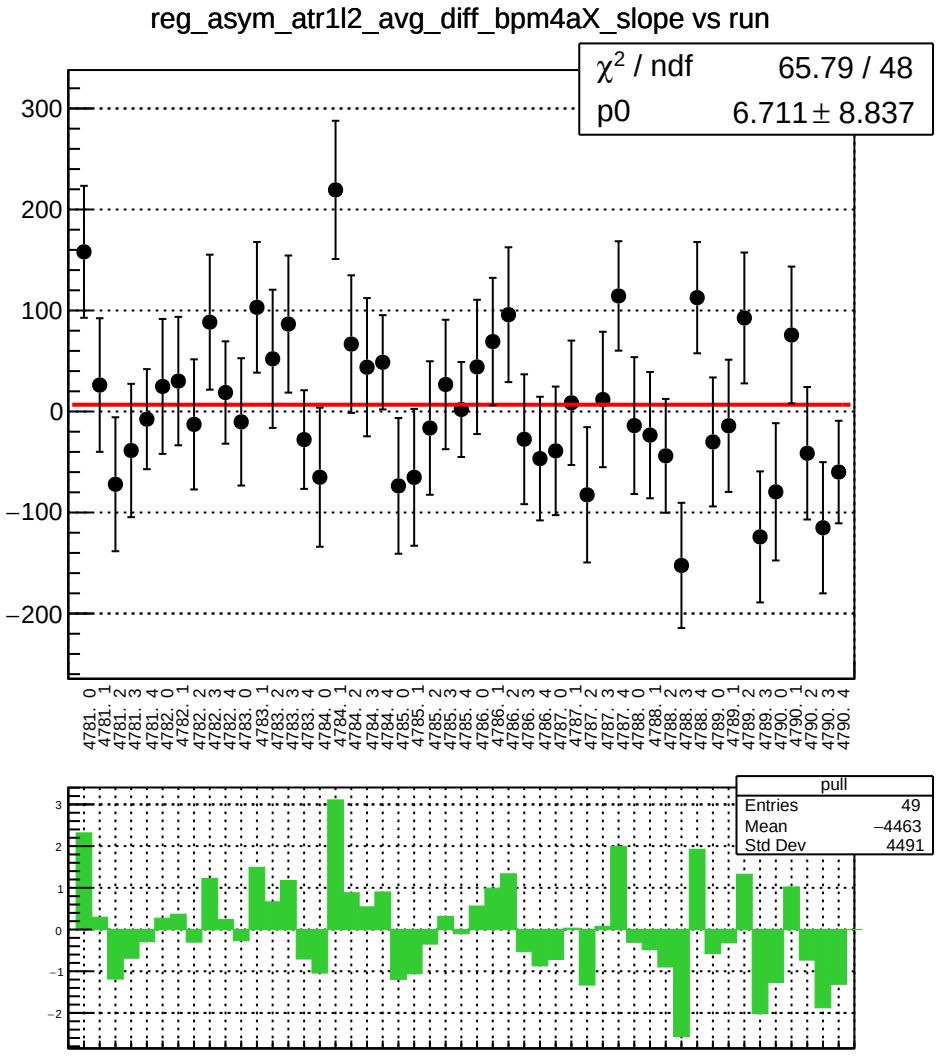

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.37 / 48
p0 −53.44 ± 1.65
pull
Entries 49
Mean 160
Std Dev 125.6

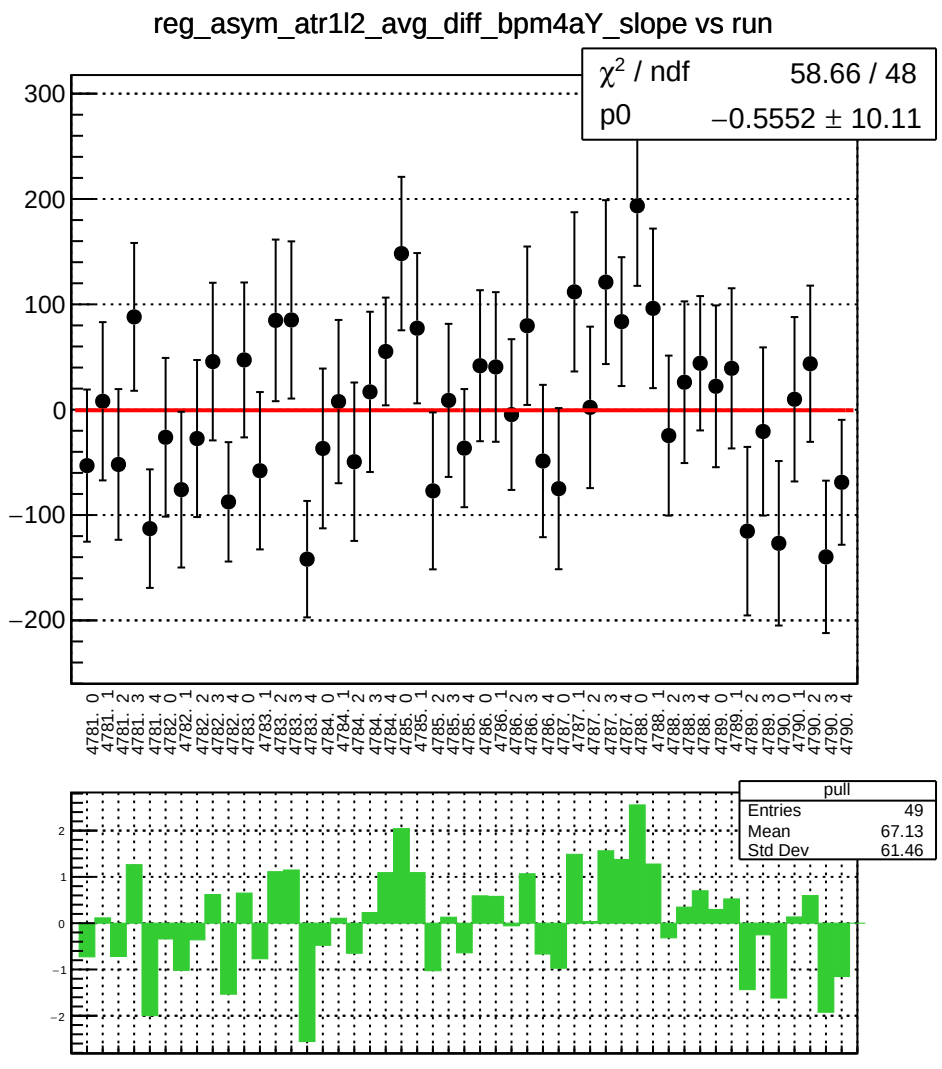

pull1D
Entries 49
Mean −0.008836
Std Dev 0.8615

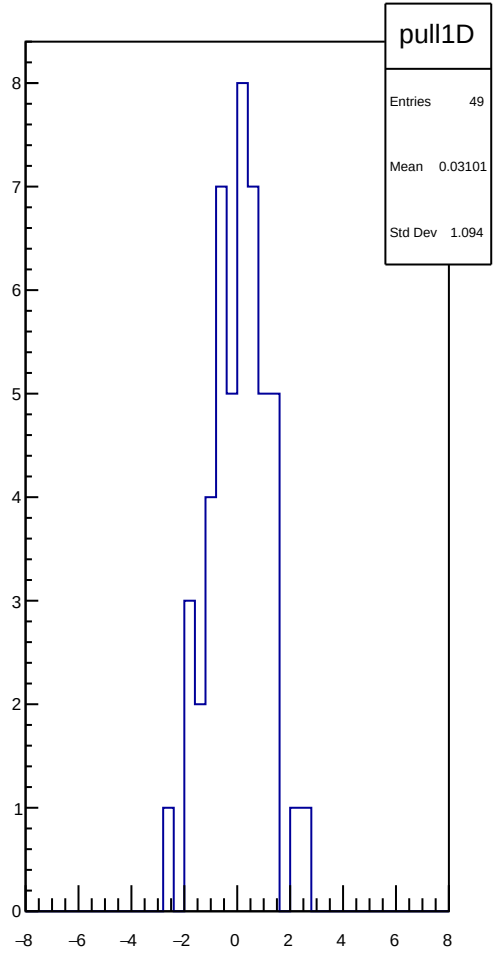

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.92 / 48
p0 26.11 ± 11.81
400
300
200
100
0
−100
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −307.1
Std Dev 325.3
3
2
1
0
−1
−2
pull1D
Entries 49
Mean −0.006057
Std Dev 0.9785
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

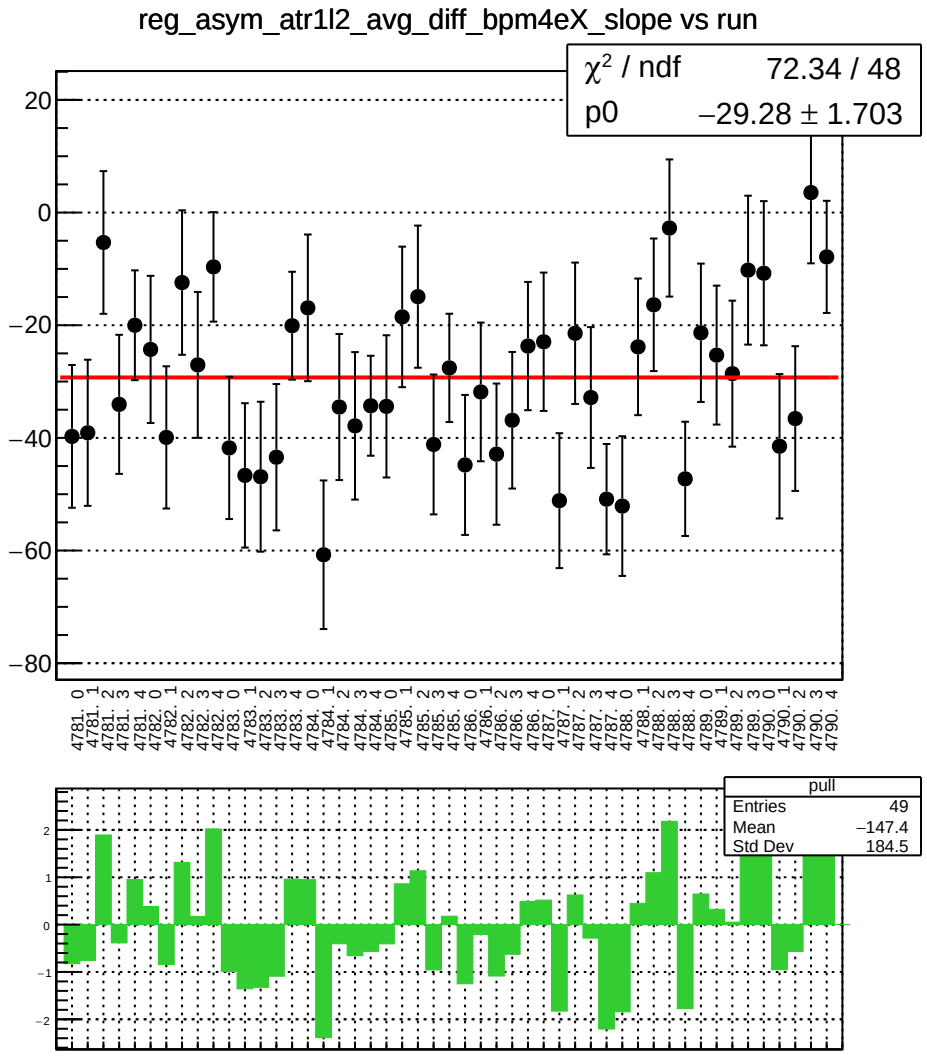

reg_asym_atl1r2_dd_diff_bpm11X_slope vs run
χ² / ndf 51.05 / 48
p0 25.94 ± 2.481
pull
Entries 49
Mean 102.9
Std Dev 76.26

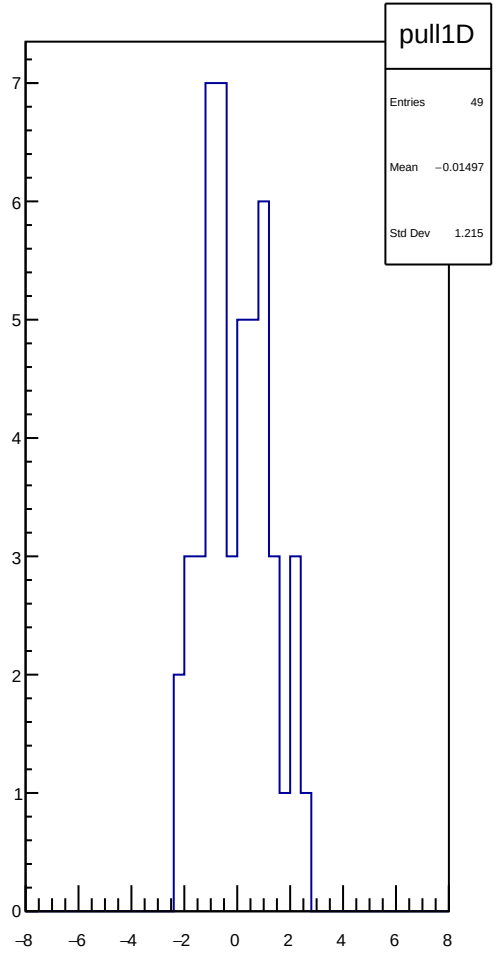

pull1D
Entries 49
Mean −0.0176
Std Dev 1.021

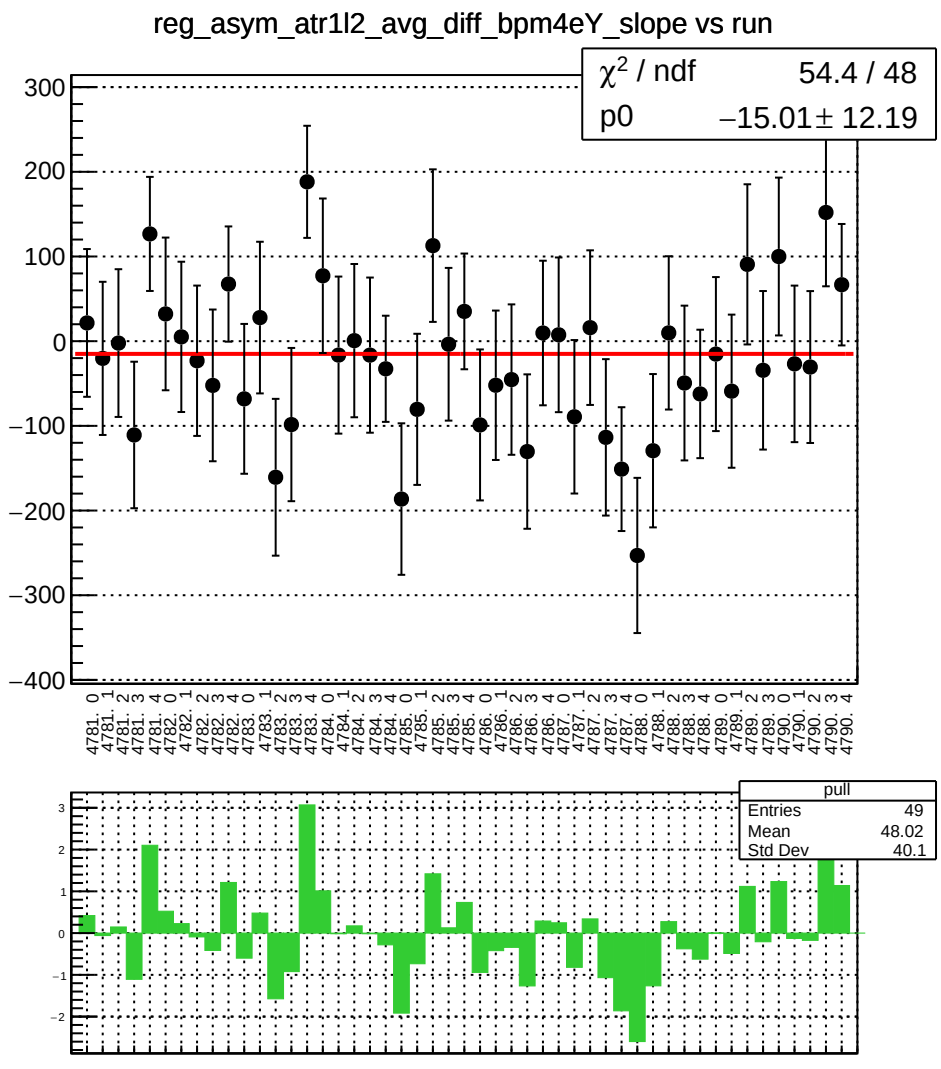

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 65.79 / 48
p0 6.711 ± 8.837
300
200
100
0
−100
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −4463
Std Dev 4491
3
2
1
0
−1
−2
pull1D
Entries 49
Mean 0.001102
Std Dev 1.159
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

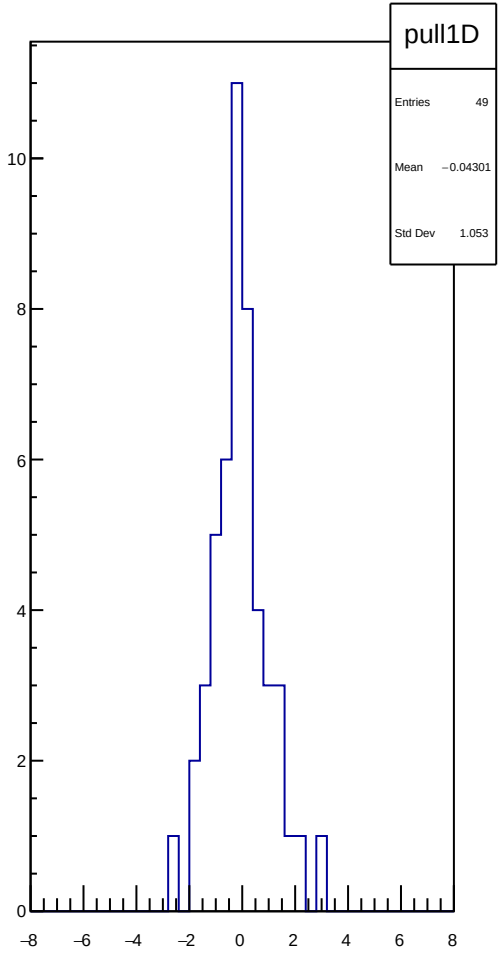

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 58.66 / 48
p0 −0.5552 ± 10.11
300
200
100
0
−100
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 67.13
Std Dev 61.46
2
1
0
−1
−2

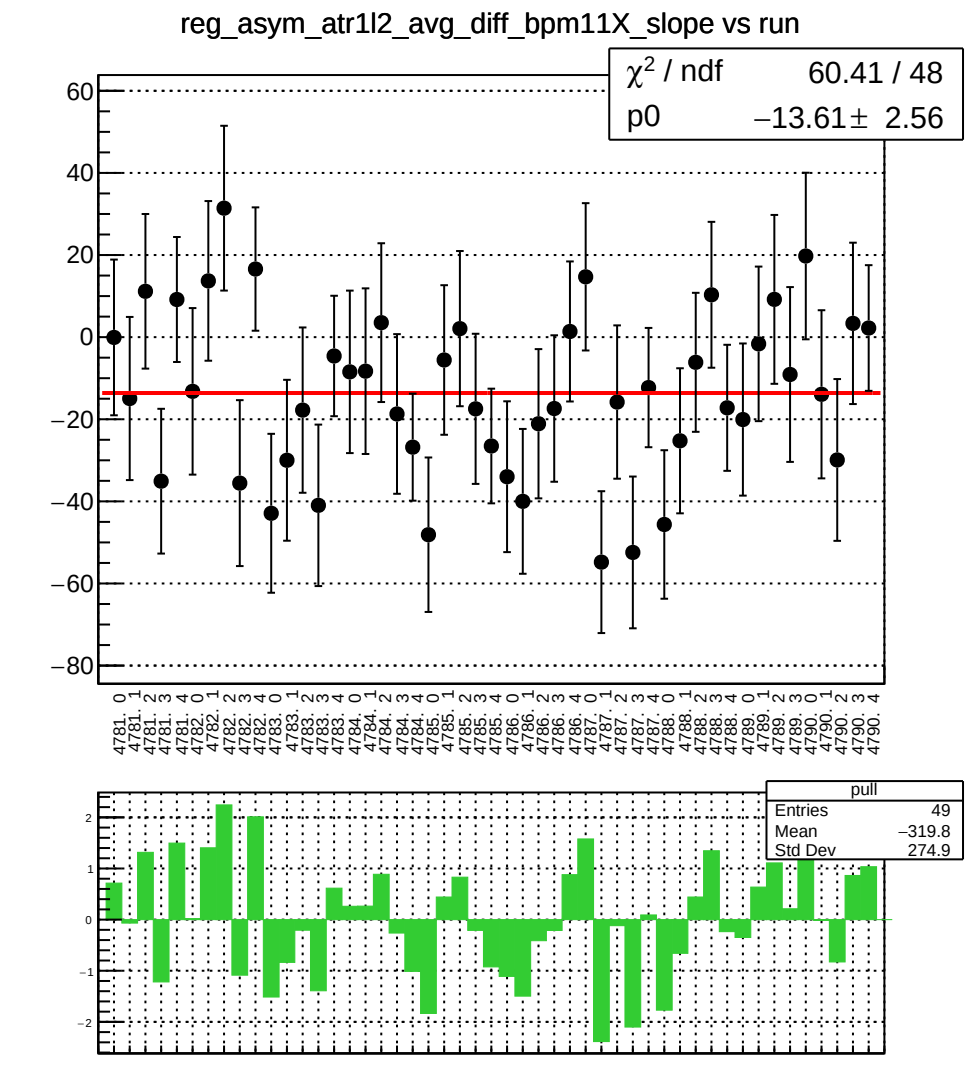

pull1D
Entries 49
Mean 0.03101
Std Dev 1.094
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

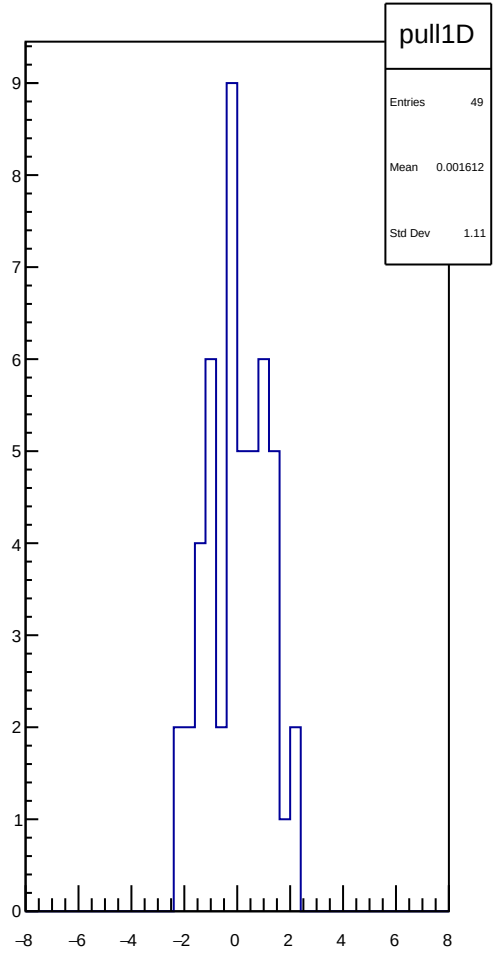

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 72.34 / 48
p0 −29.28 ± 1.703
pull
Entries 49
Mean −147.4
Std Dev 184.5

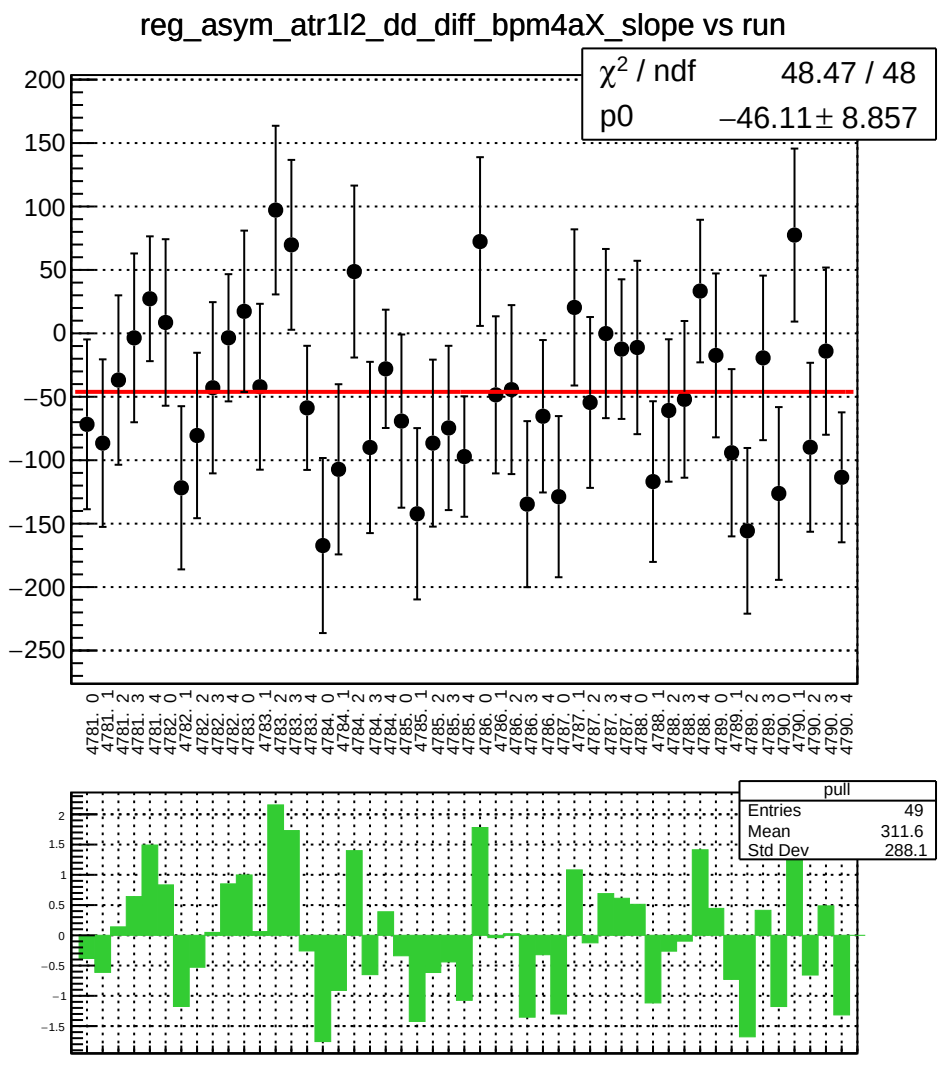

pull1D
Entries 49
Mean −0.01497
Std Dev 1.215

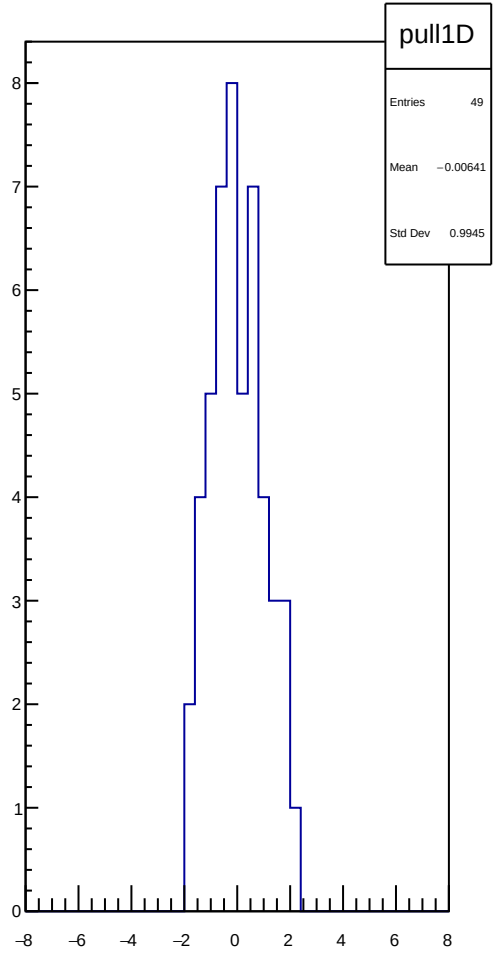

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 54.4 / 48
p0 −15.01± 12.19
pull
Entries 49
Mean 48.02
Std Dev 40.1

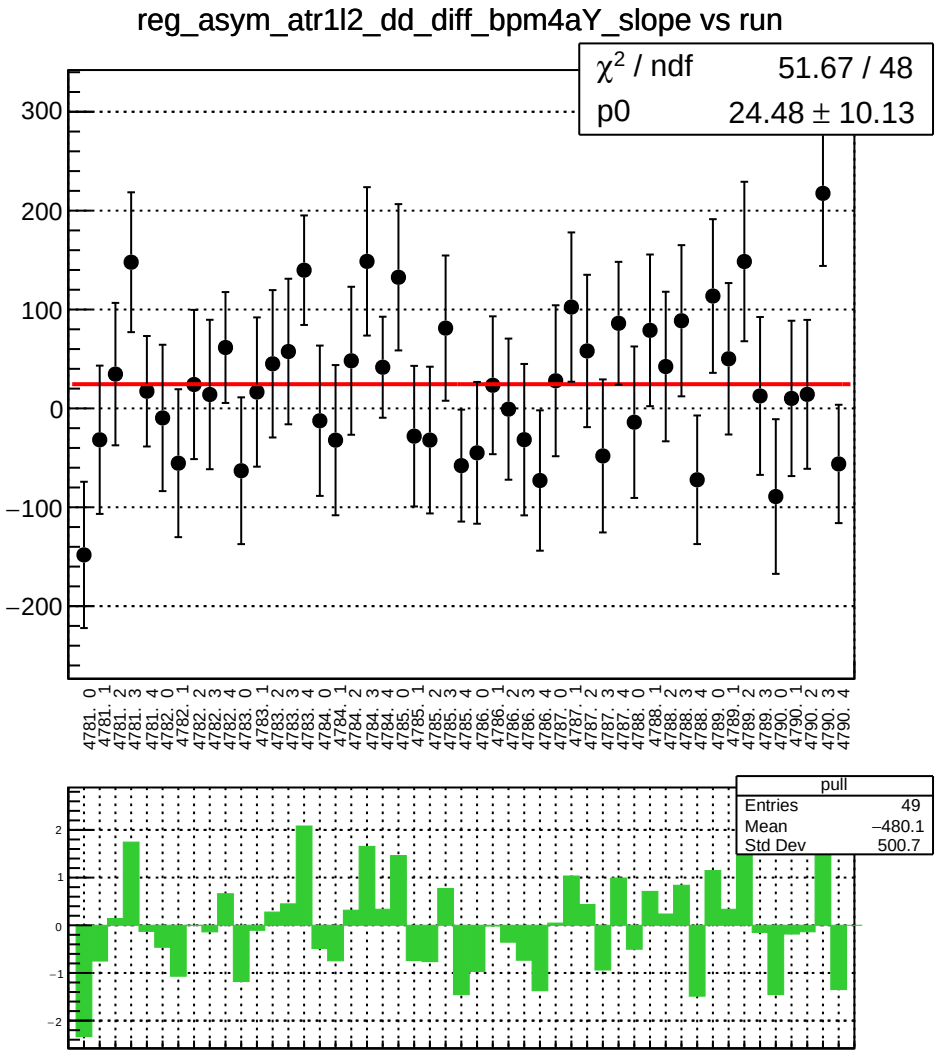

pull1D
Entries 49
Mean −0.04301
Std Dev 1.053

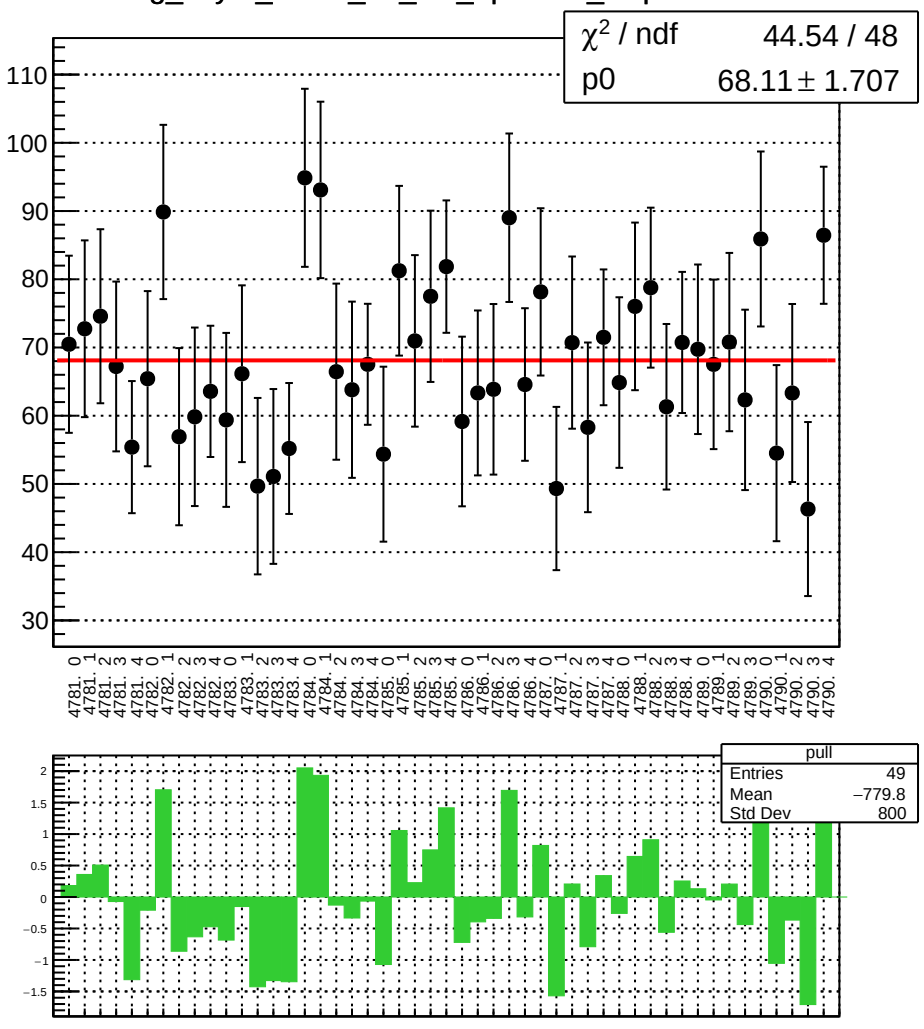

reg_asym_atr1l2_avg_diff_bpm11X_slope vs run
χ² / ndf 60.41 / 48
p0 −13.61 ± 2.56
pull
Entries 49
Mean −319.8
Std Dev 274.9

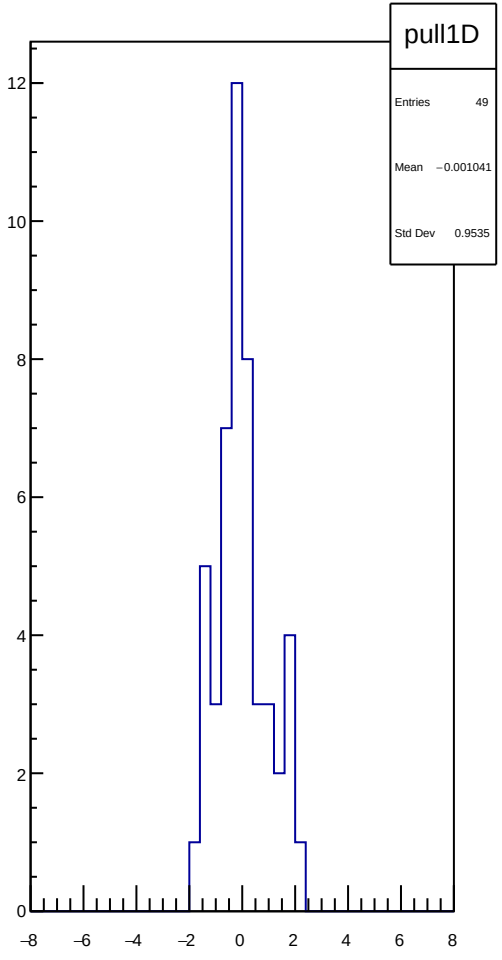

pull1D
Entries 49
Mean 0.001612
Std Dev 1.11

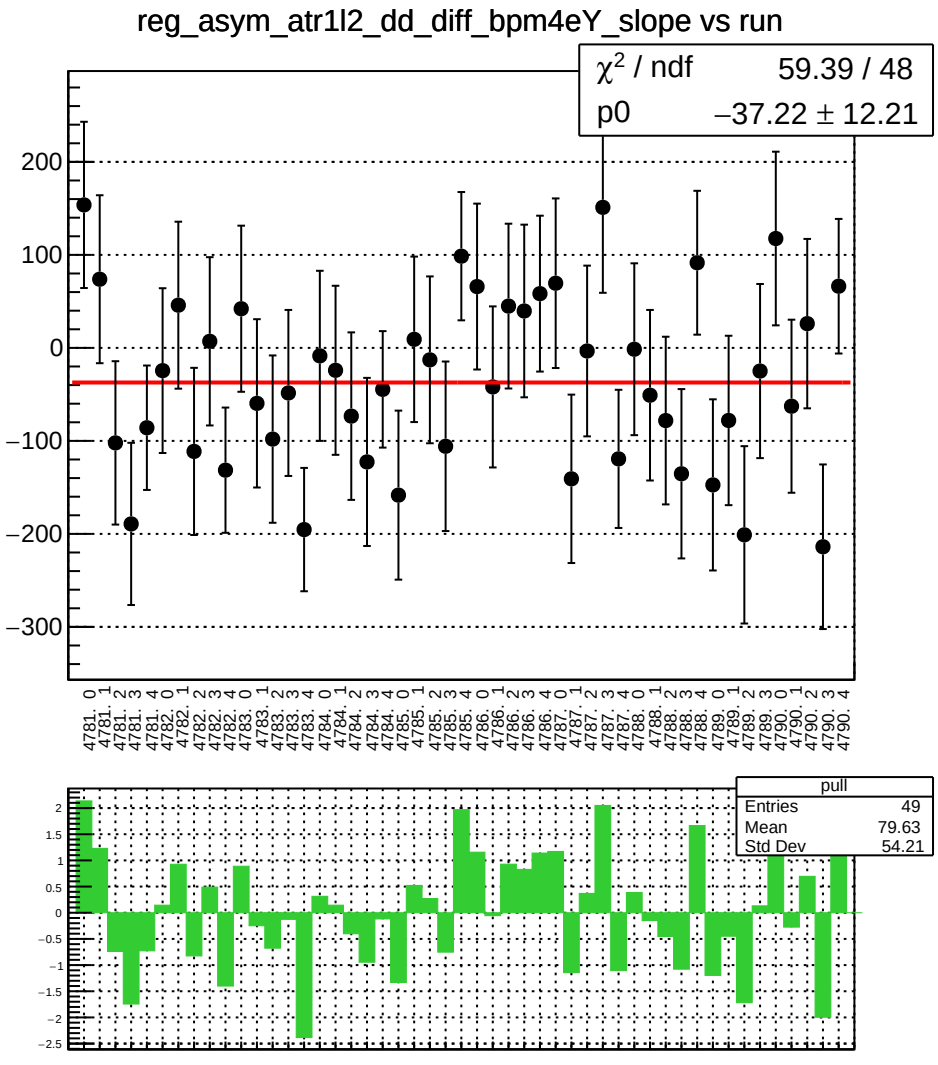

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 48.47 / 48
p0 −46.11 ± 8.857
pull
Entries 49
Mean 311.6
Std Dev 288.1

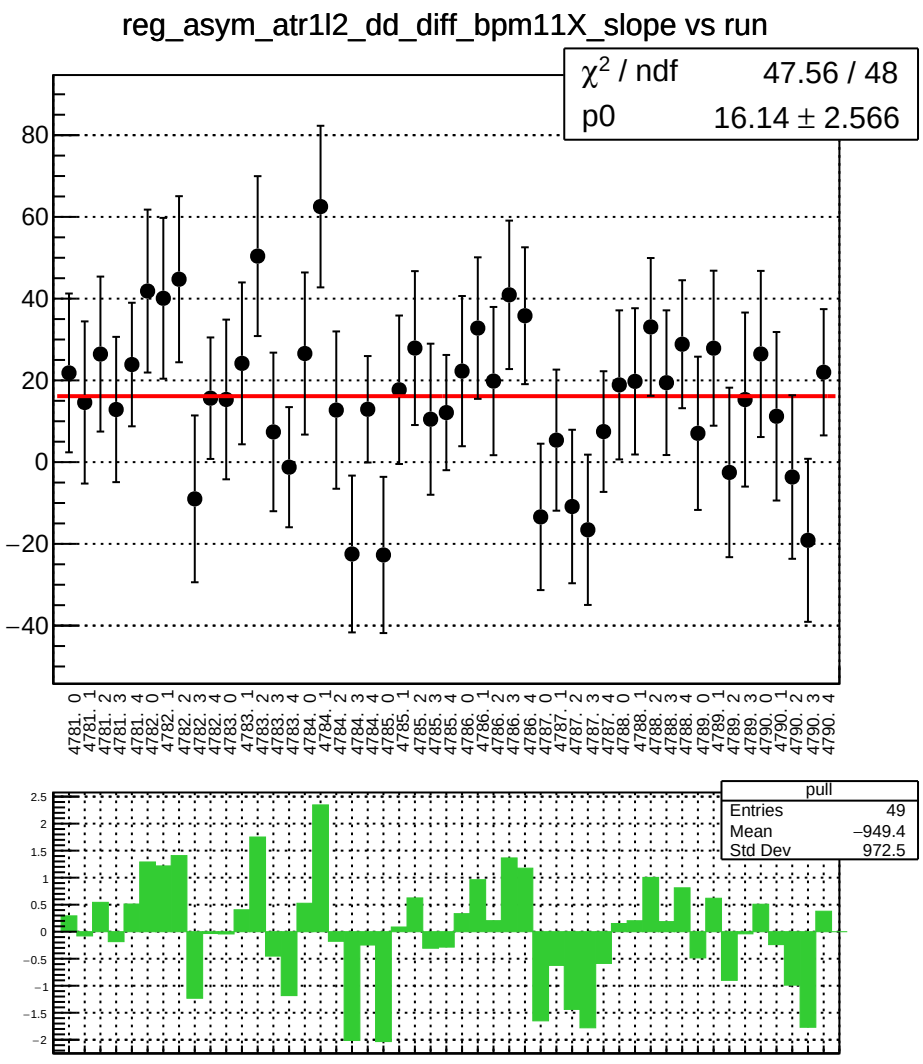

pull1D
Entries 49
Mean −0.00641
Std Dev 0.9945

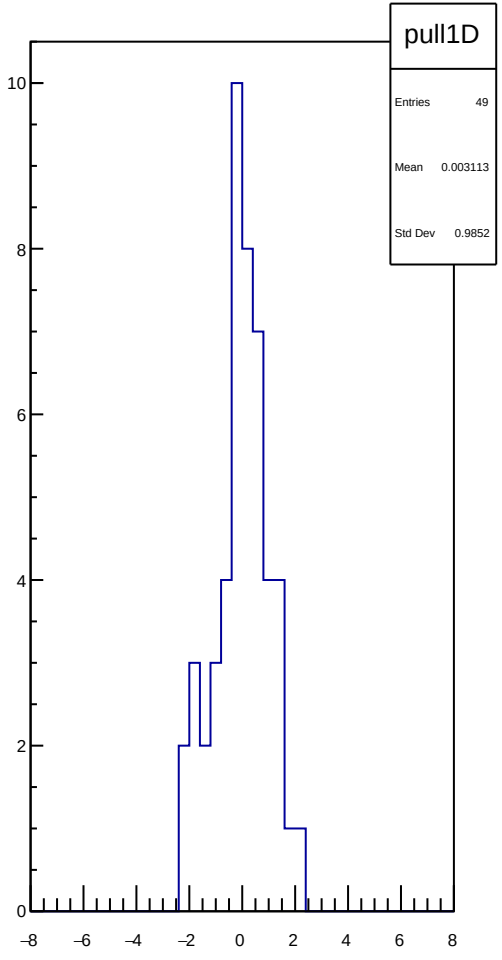

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 51.67 / 48
p0 24.48 ± 10.13
300
200
100
0
−100
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −480.1
Std Dev 500.7
2
1
0
−1
−2
pull1D
Entries 49
Mean −0.003079
Std Dev 1.027
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

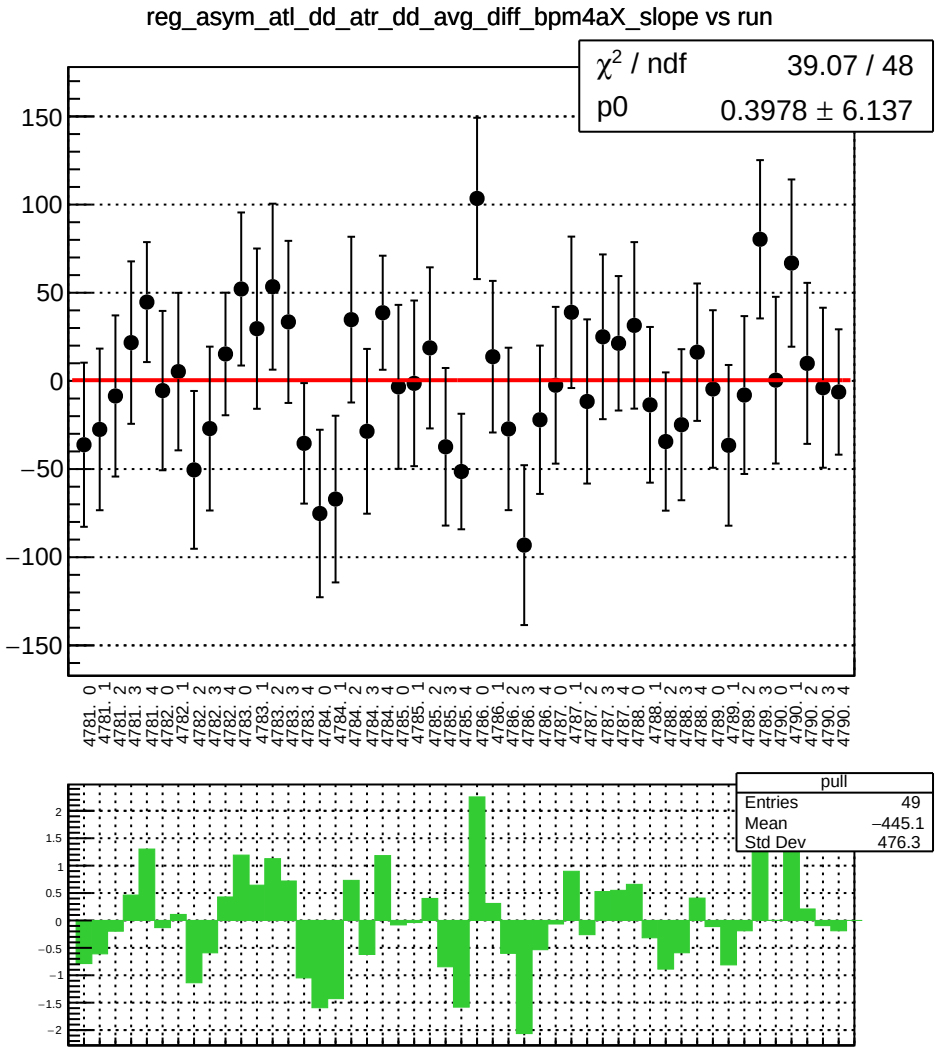

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.54 / 48
p0 68.11 ± 1.707
pull
Entries 49
Mean −779.8
Std Dev 800

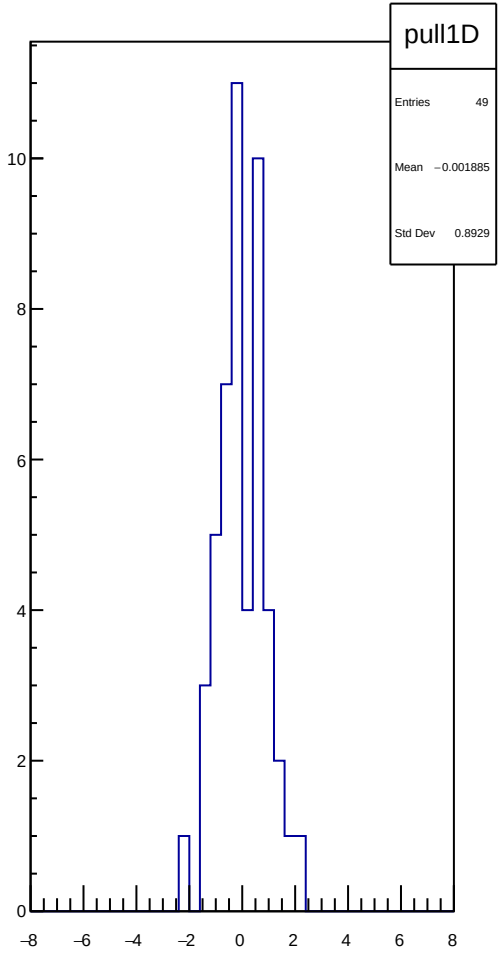

pull1D
Entries 49
Mean −0.001041
Std Dev 0.9535

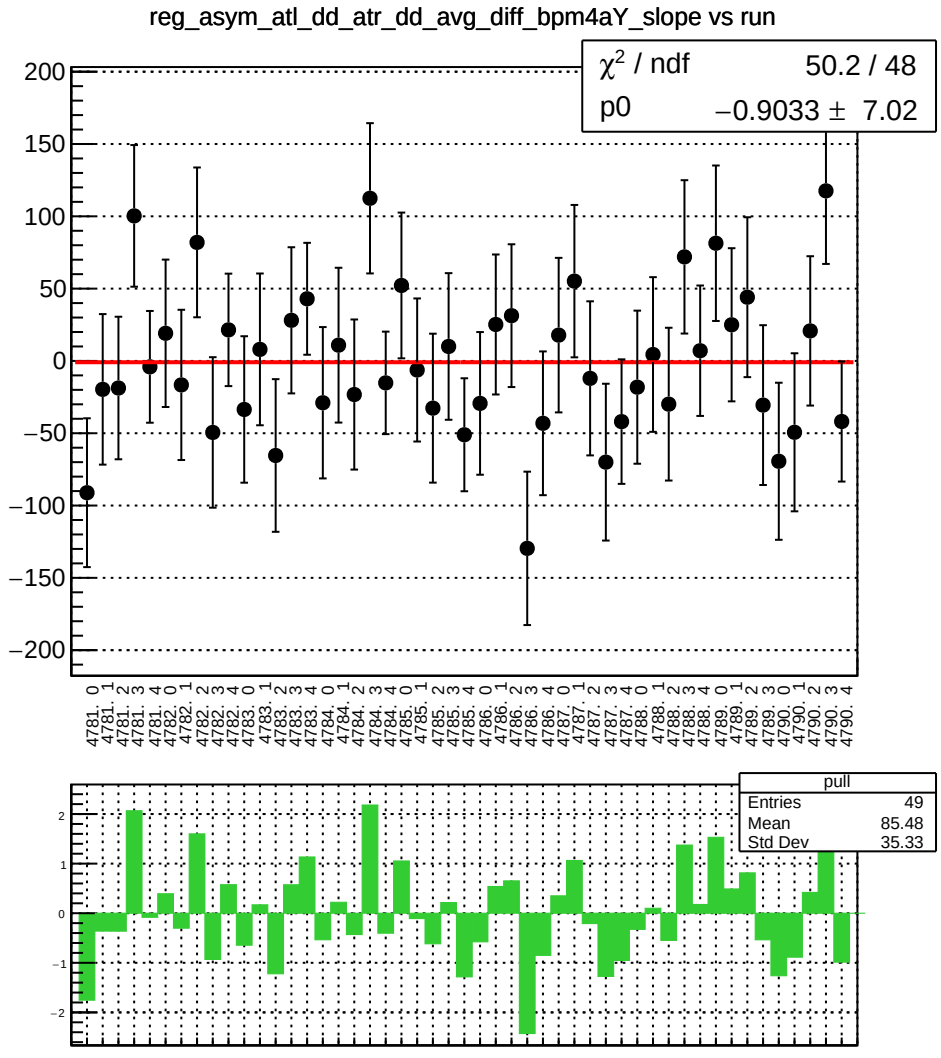

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.39 / 48
p0 −37.22 ± 12.21
200
100
0
−100
−200
−300
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 79.63
Std Dev 54.21
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 49
Mean 0.01238
Std Dev 1.101
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

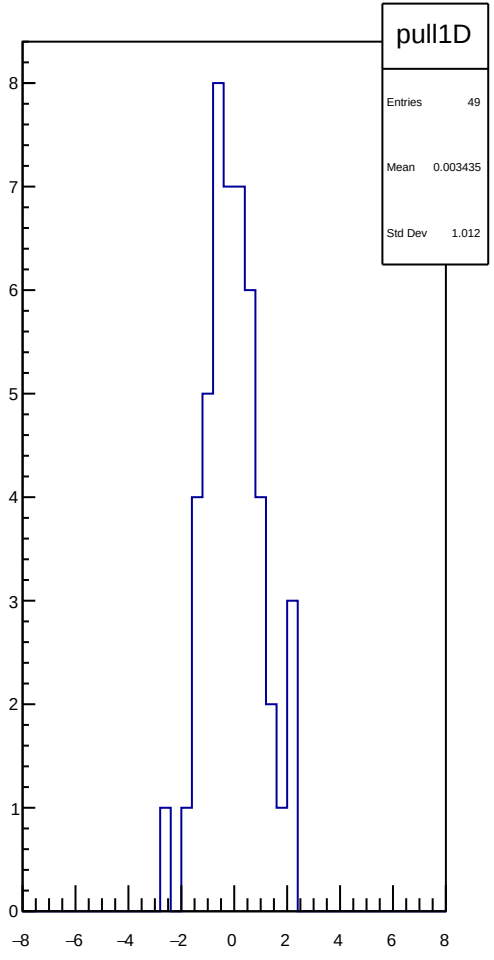

reg_asym_atr1l2_dd_diff_bpm11X_slope vs run
χ² / ndf 47.56 / 48
p0 16.14 ± 2.566
pull
Entries 49
Mean −949.4
Std Dev 972.5

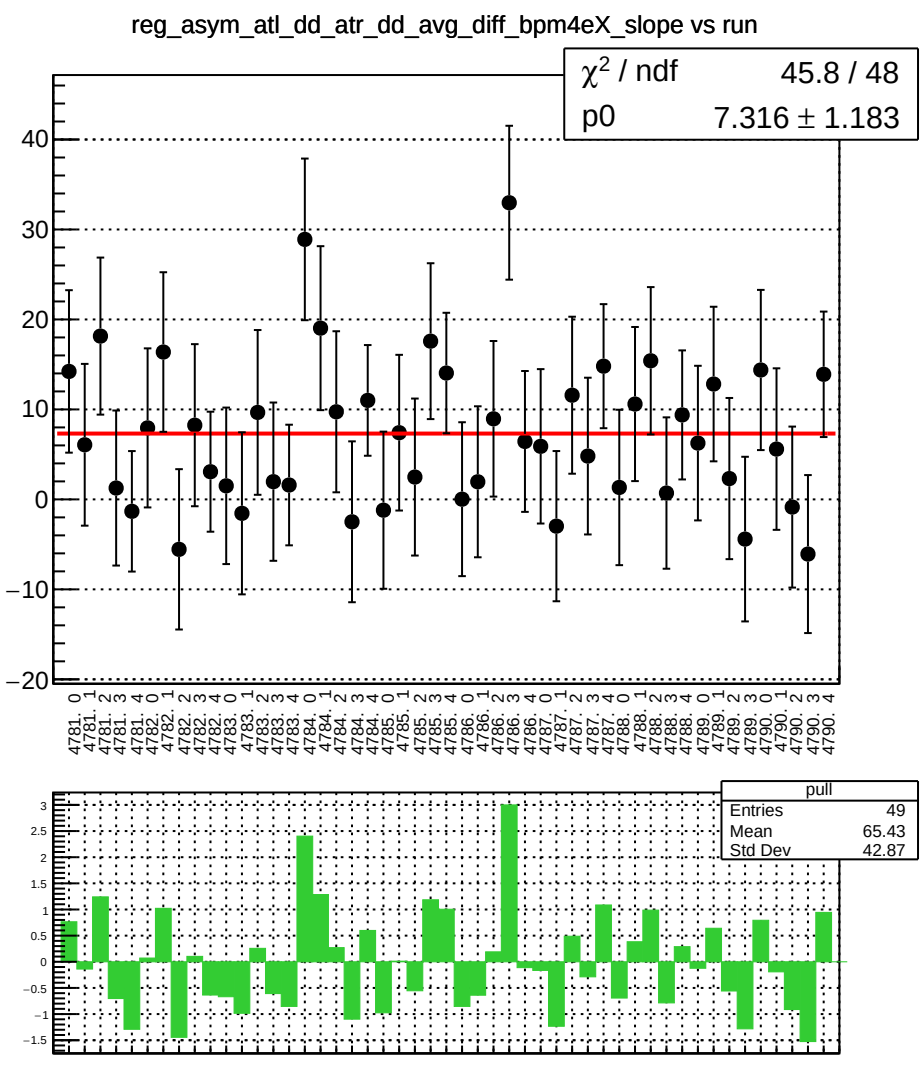

pull1D
Entries 49
Mean 0.003113
Std Dev 0.9852

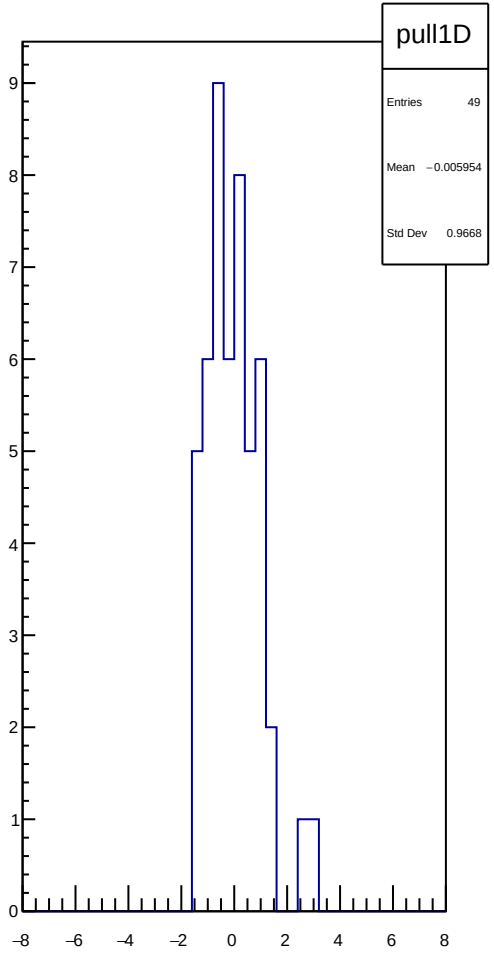

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 39.07 / 48
p0 0.3978 ± 6.137
150
100
50
0
−50
−100
−150
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −445.1
Std Dev 476.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

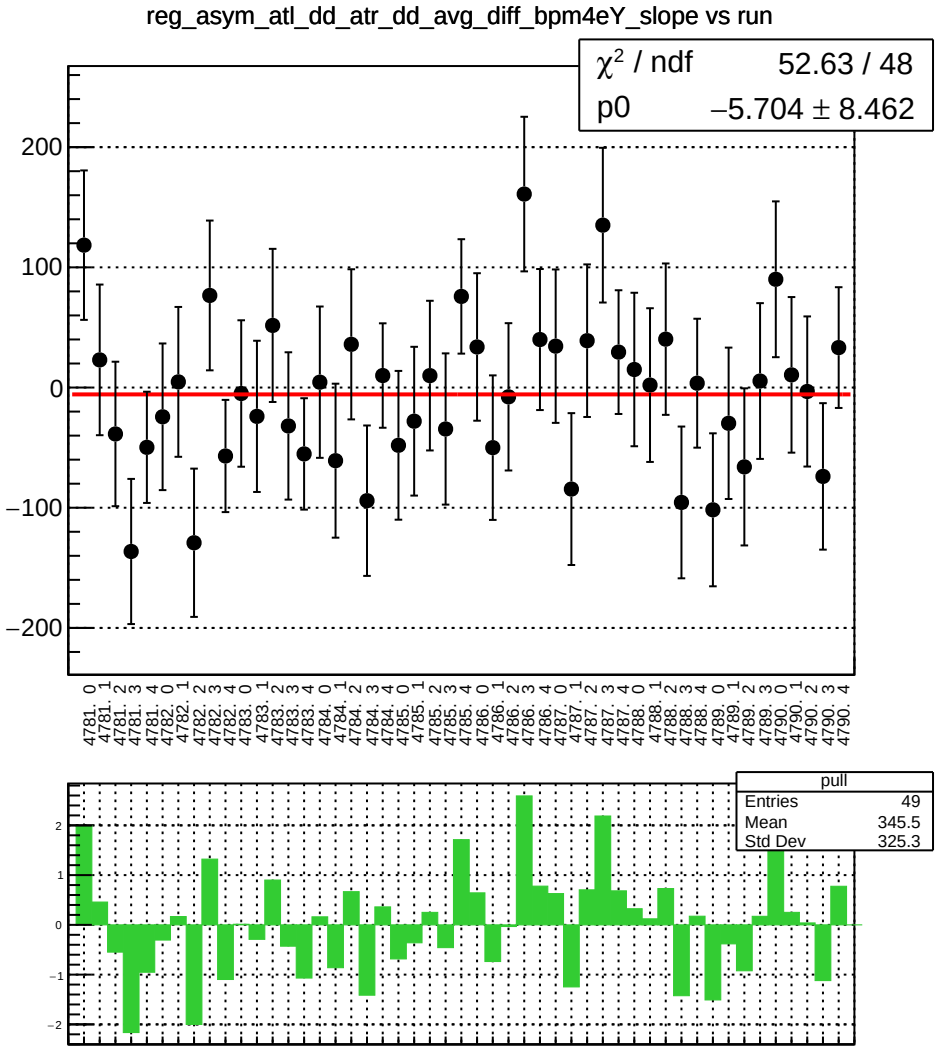

pull1D
Entries 49
Mean −0.001885
Std Dev 0.8929
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

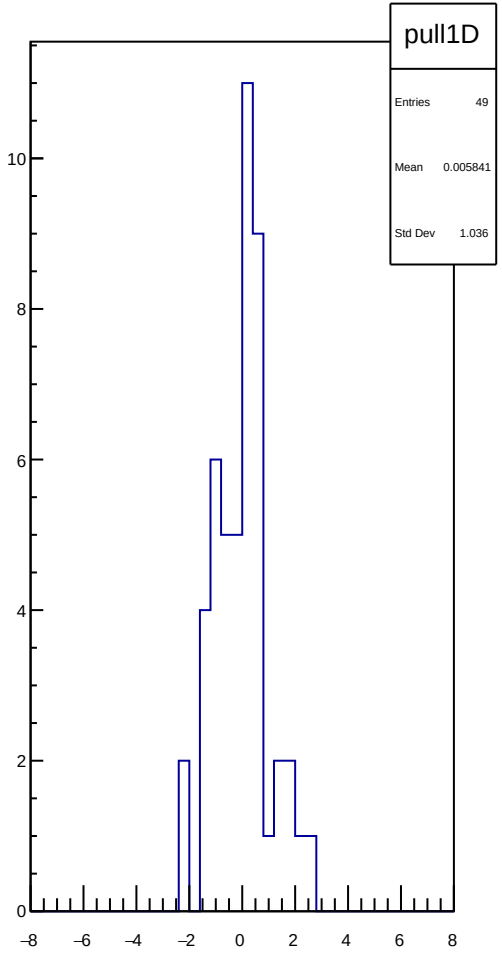

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 50.2 / 48
p0 −0.9033 ± 7.02
pull
Entries 49
Mean 85.48
Std Dev 35.33

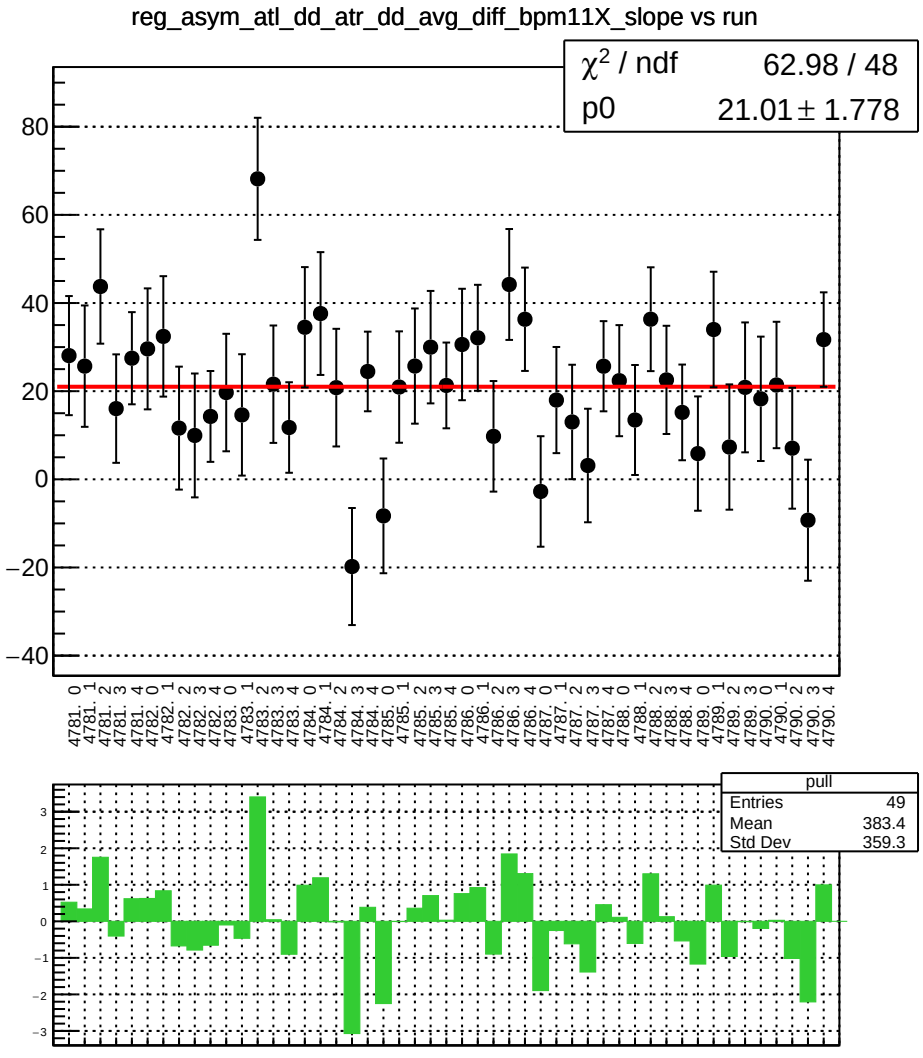

pull1D
Entries 49
Mean 0.003435
Std Dev 1.012

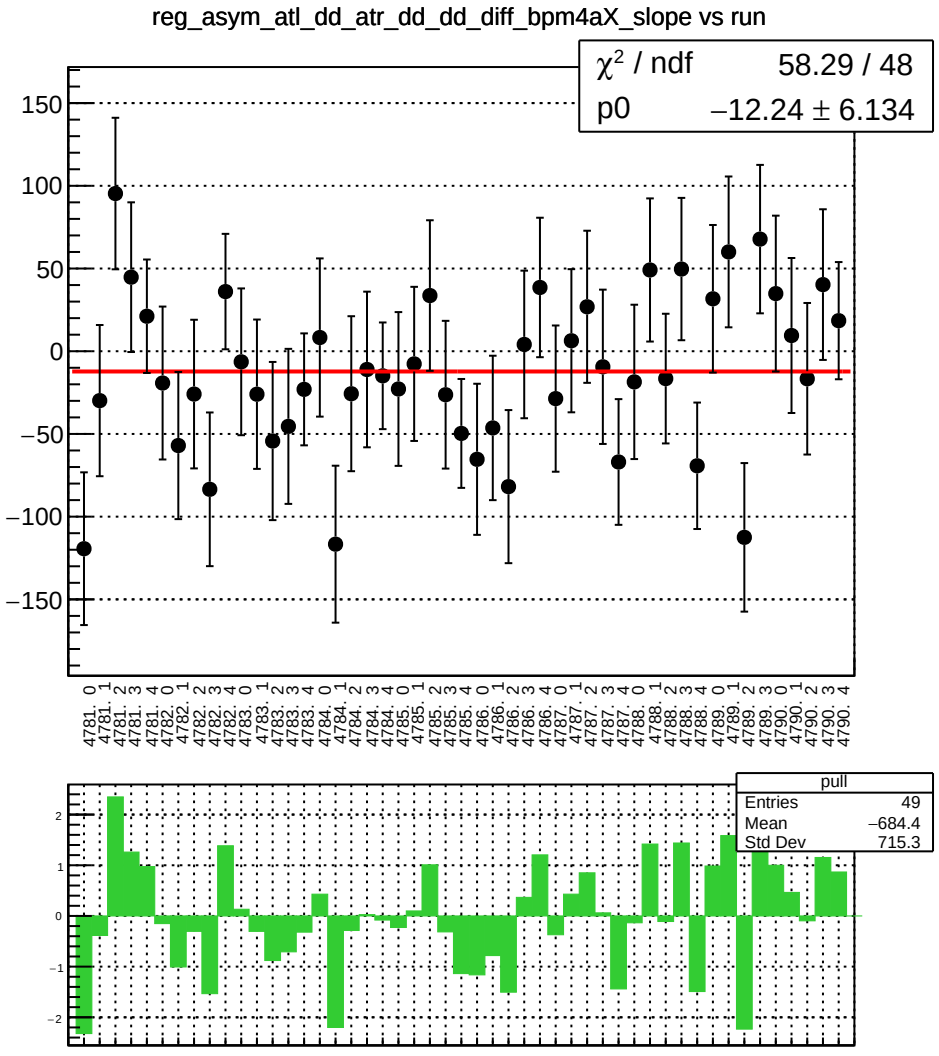

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.8 / 48
p0 7.316 ± 1.183
pull
Entries 49
Mean 65.43
Std Dev 42.87

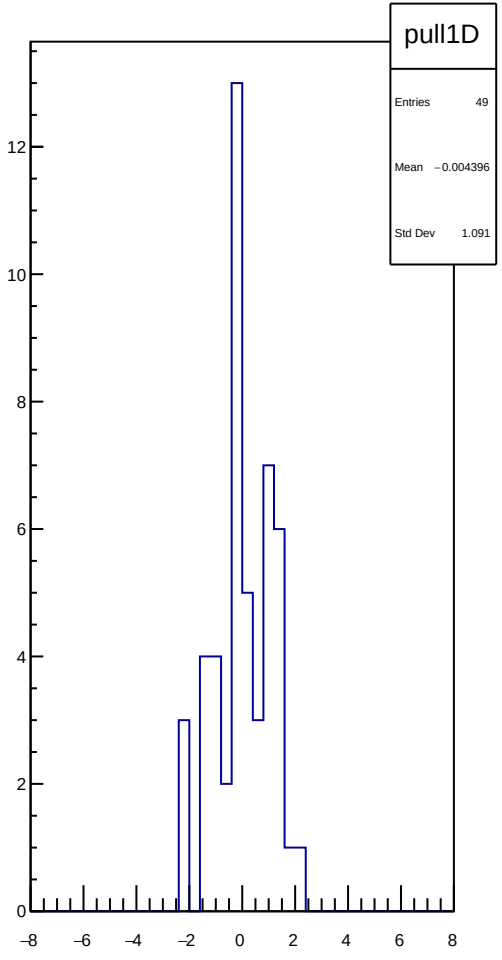

pull1D
Entries 49
Mean −0.005954
Std Dev 0.9668

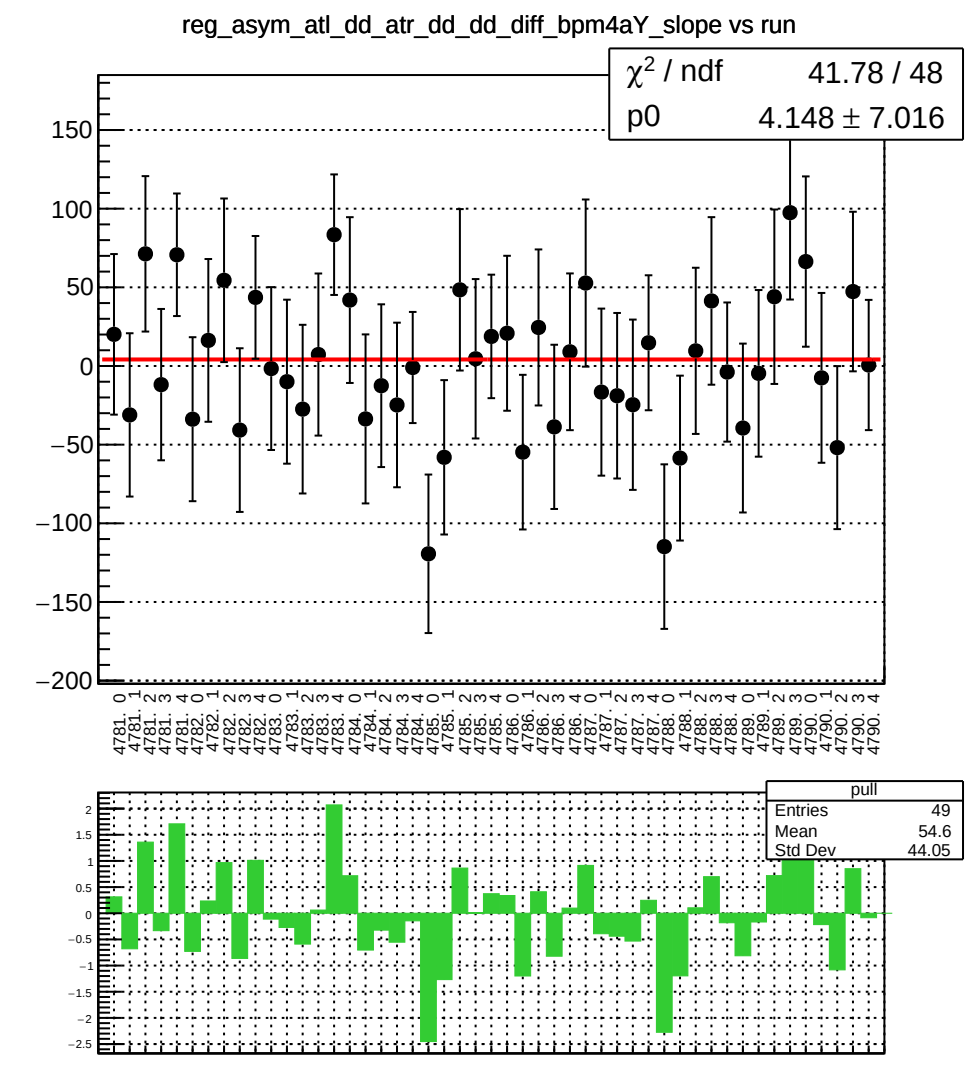

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 52.63 / 48
p0 −5.704 ± 8.462
200
100
0
−100
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 345.5
Std Dev 325.3
2
1
0
−1
−2

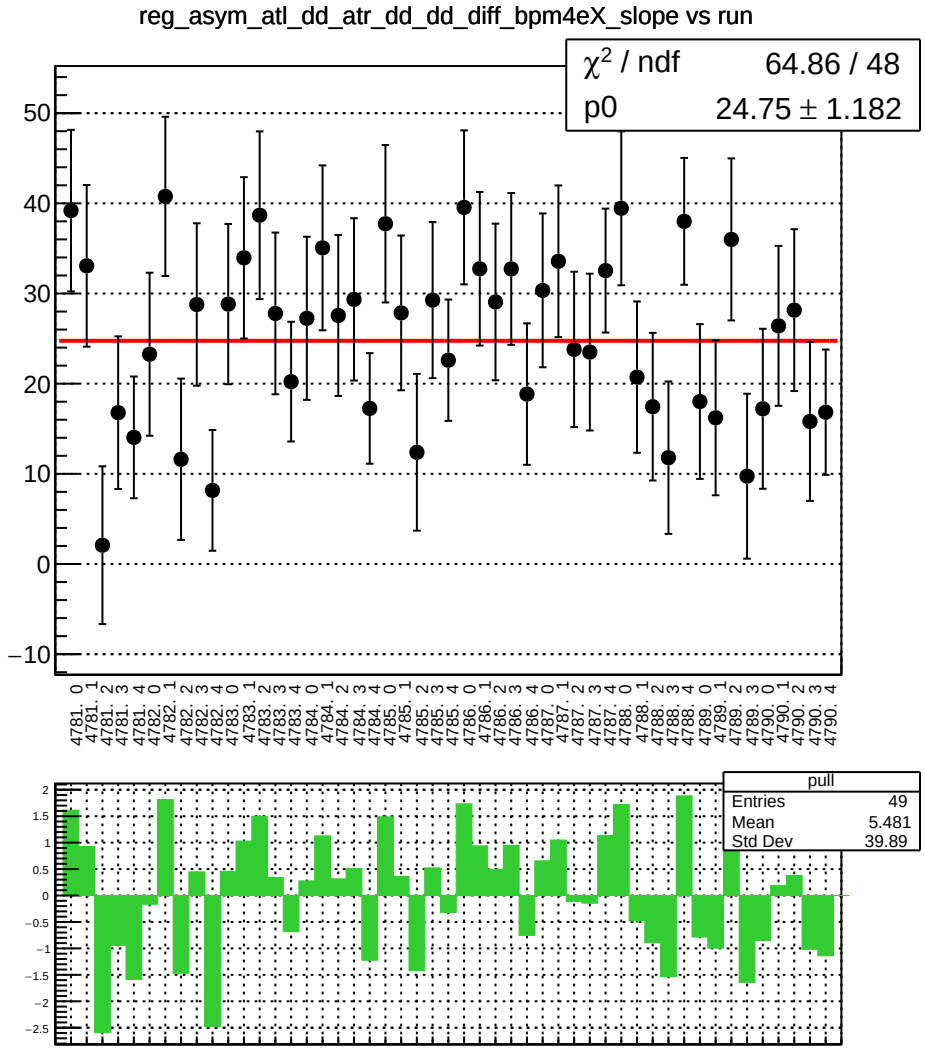

pull1D
Entries 49
Mean 0.005841
Std Dev 1.036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

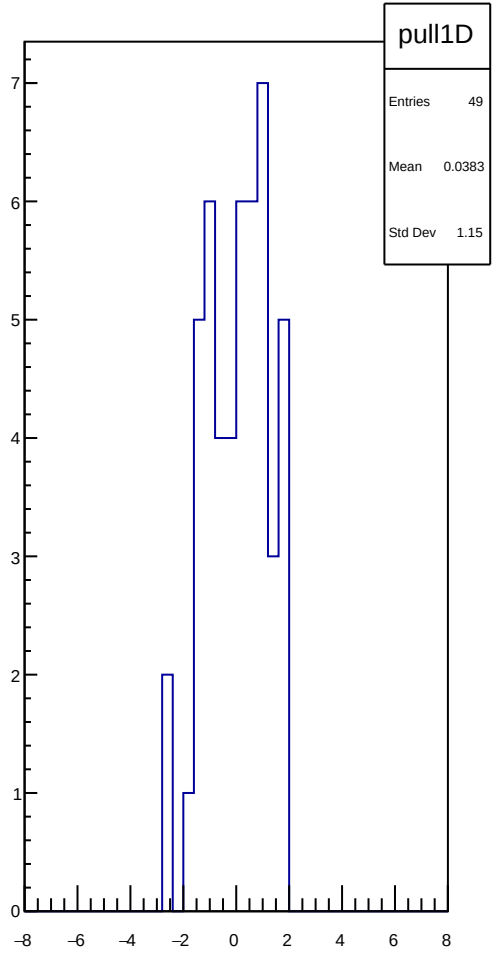

reg_asym_atl_dd_atr_dd_avg_diff_bpm11X_slope vs run
χ² / ndf 62.98 / 48
p0 21.01 ± 1.778
pull
Entries 49
Mean 383.4
Std Dev 359.3
pull1D
Entries 49
Mean −0.008784
Std Dev 1.134

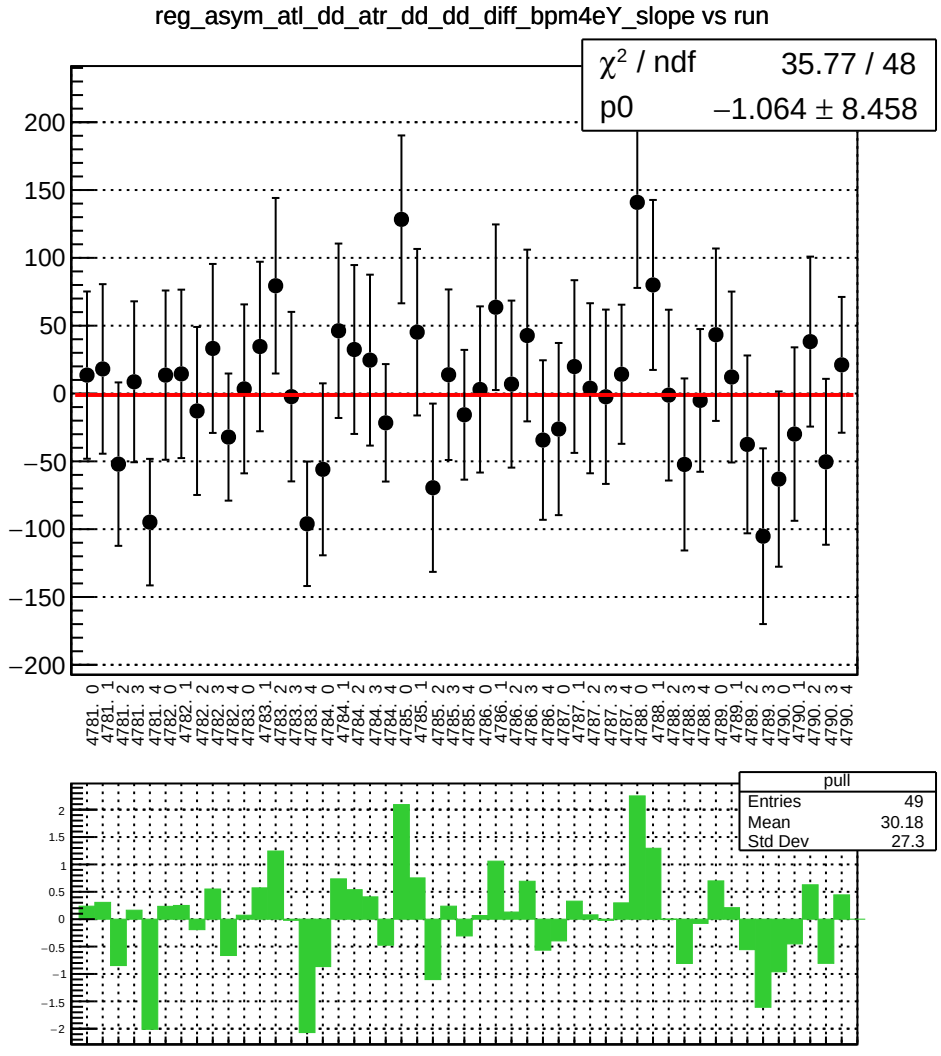

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 58.29 / 48
p0 −12.24 ± 6.134
150
100
50
0
−50
−100
−150
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −684.4
Std Dev 715.3
2
1
0
−1
−2

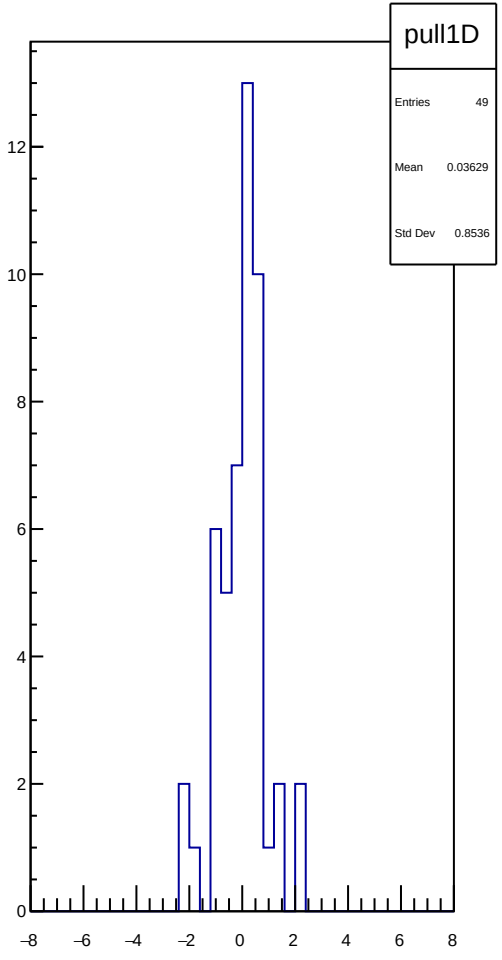

pull1D
Entries 49
Mean −0.004396
Std Dev 1.091
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

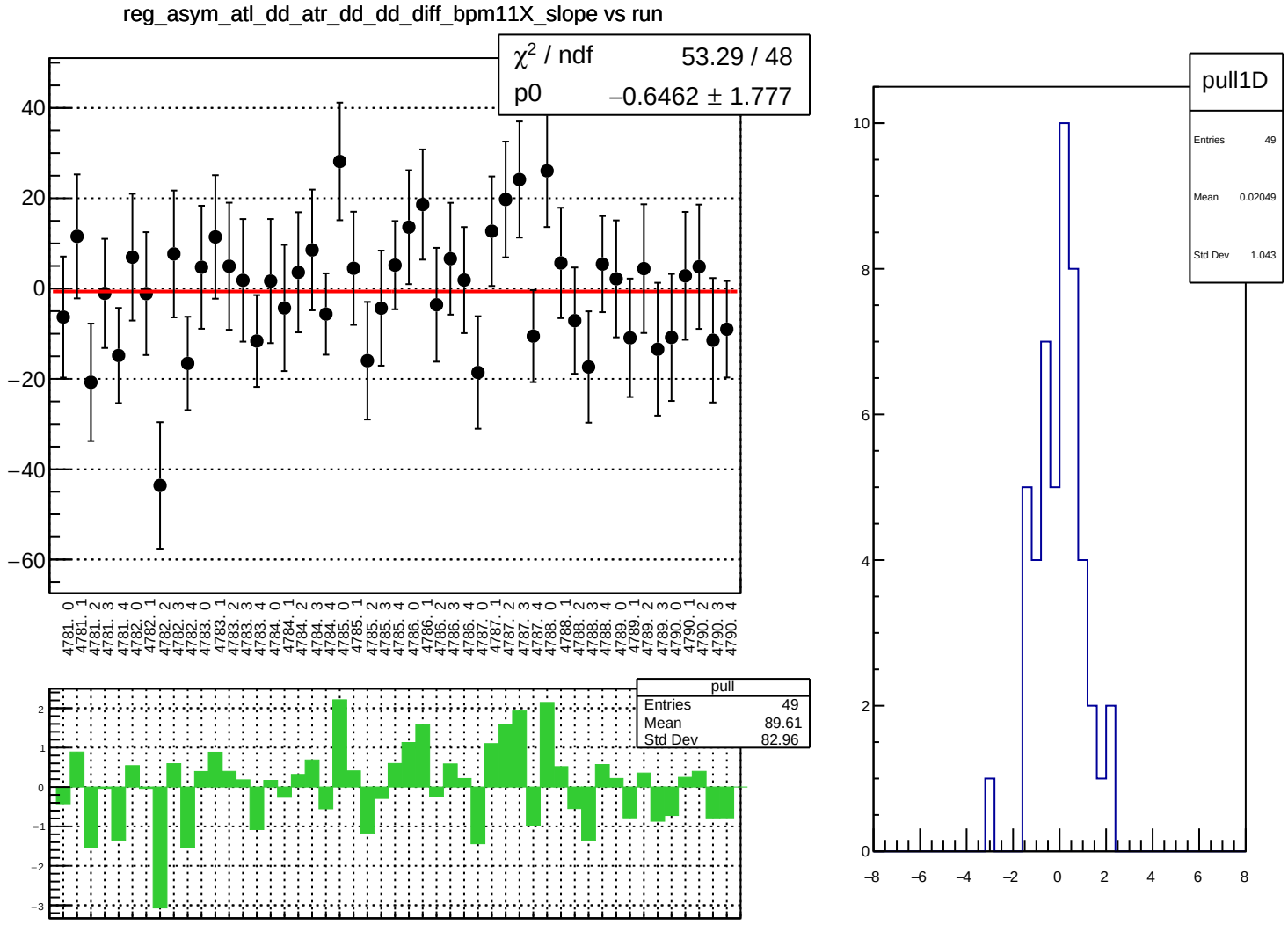

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.78 / 48
p0 4.148 ± 7.016
150
100
50
0
−50
−100
−150
−200
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 54.6
Std Dev 44.05
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 49
Mean −0.03069
Std Dev 0.9229
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

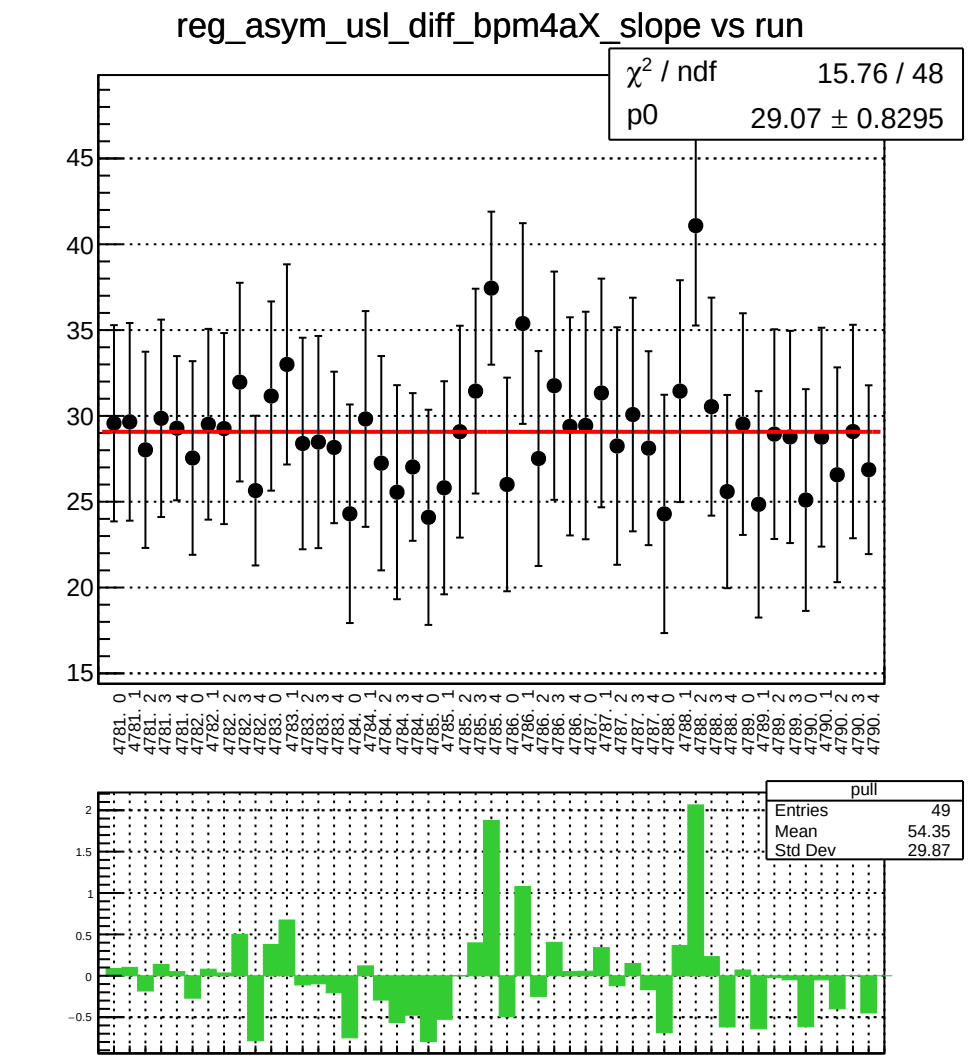

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.86 / 48
p0 24.75 ± 1.182
pull
Entries 49
Mean 5.481
Std Dev 39.89

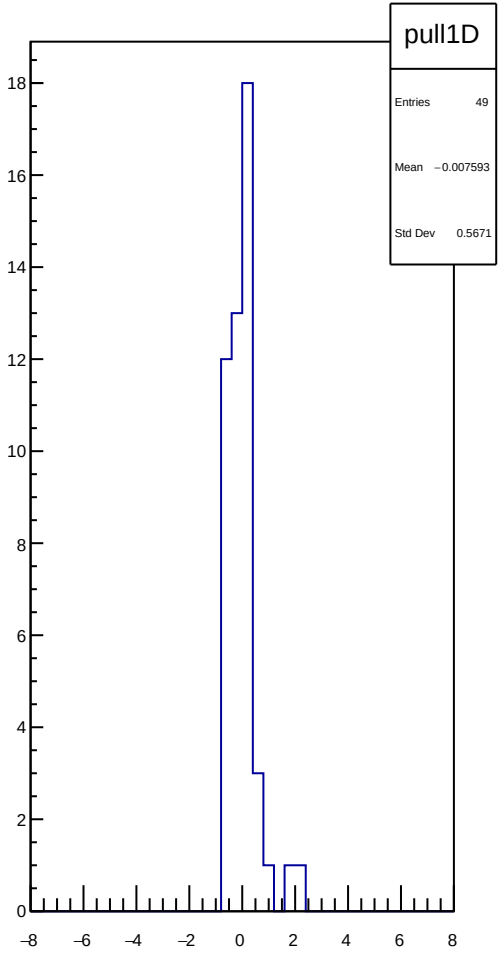

pull1D
Entries 49
Mean 0.0383
Std Dev 1.15

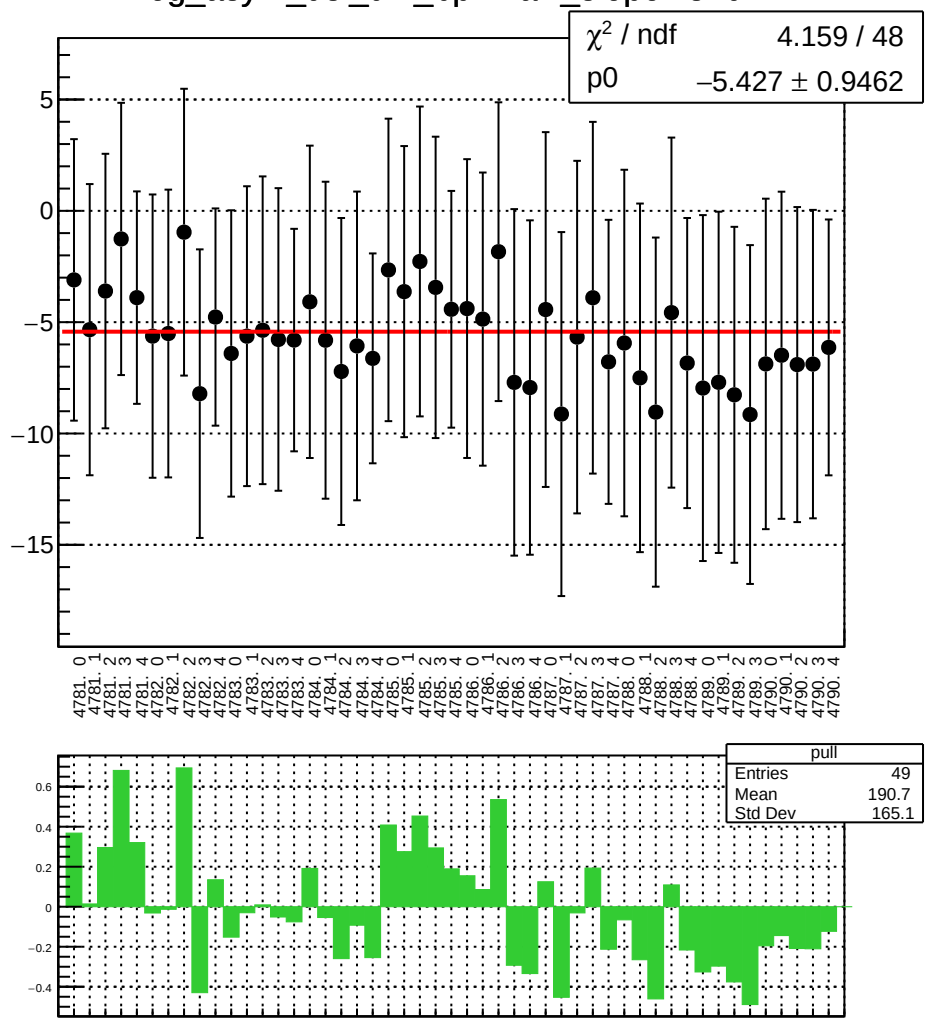

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.77 / 48
p0 −1.064 ± 8.458
pull
Entries 49
Mean 30.18
Std Dev 27.3

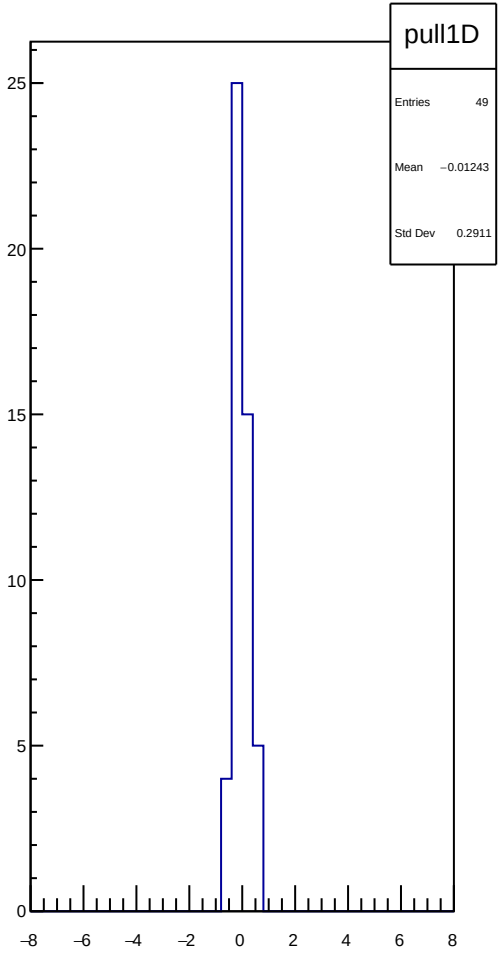

pull1D
Entries 49
Mean 0.03629
Std Dev 0.8536

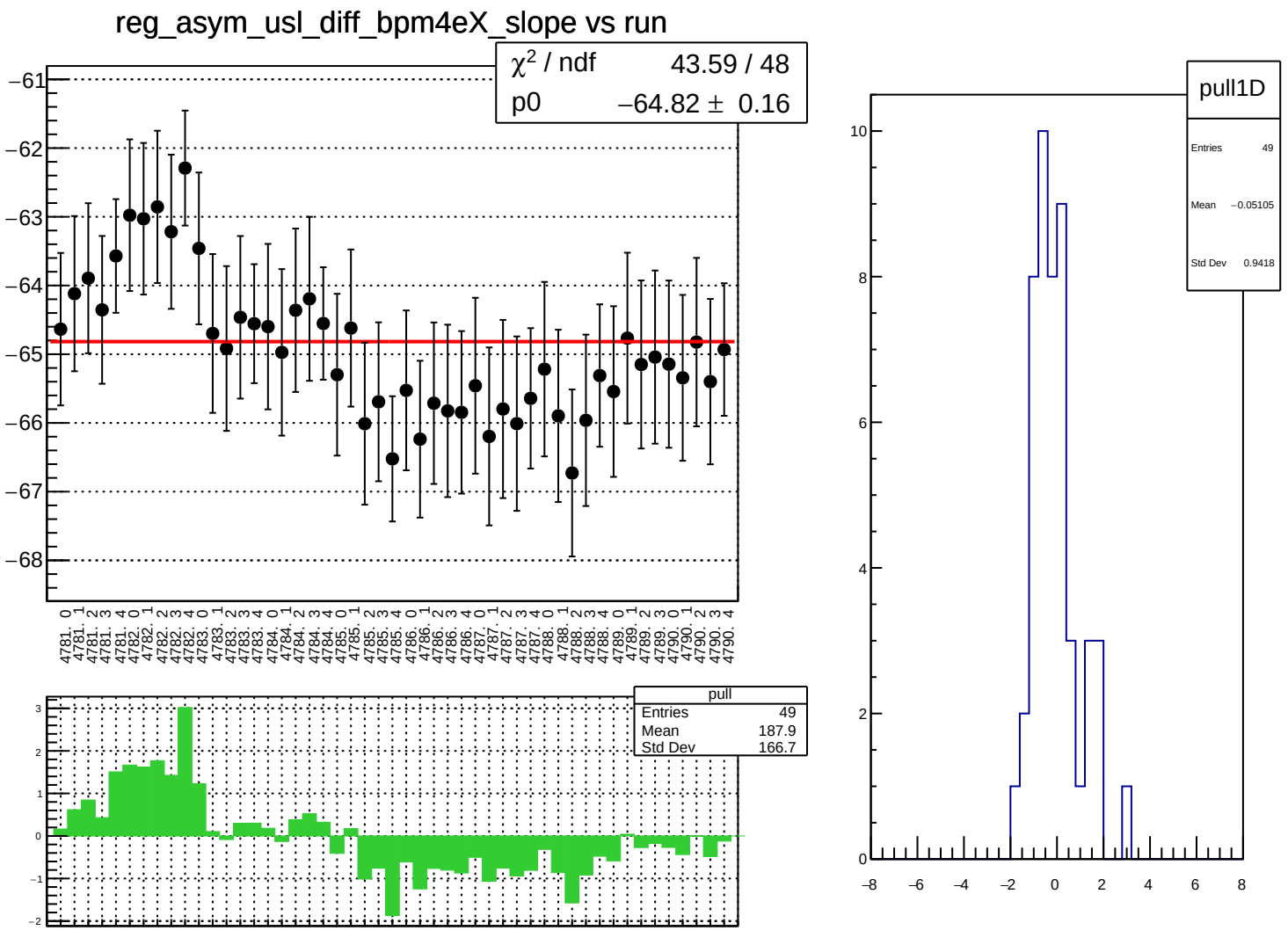

reg_asym_atl_dd_atr_dd_dd_diff_bpm11X_slope vs run
χ² / ndf 53.29 / 48
p0 −0.6462 ± 1.777
pull
Entries 49
Mean 89.61
Std Dev 82.96
pull1D
Entries 49
Mean 0.02049
Std Dev 1.043

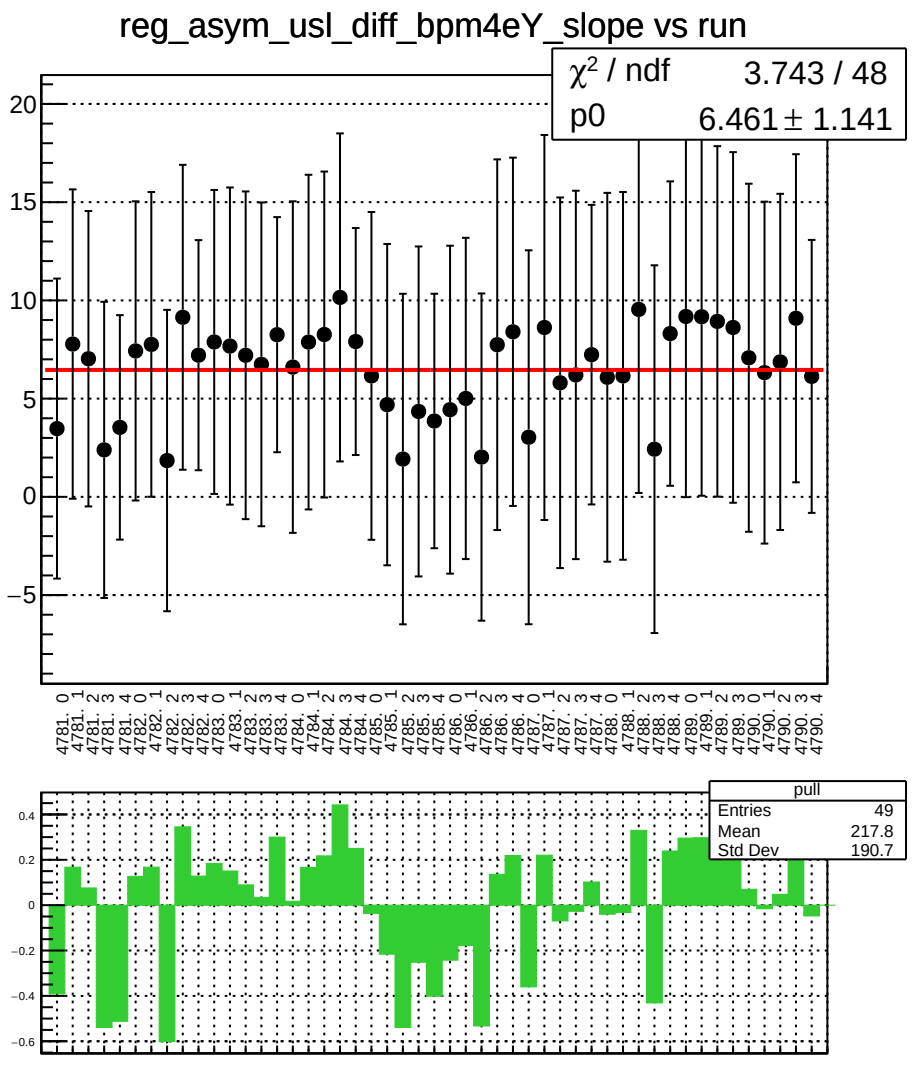

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 15.76 / 48
p0 29.07 ± 0.8295
pull
Entries 49
Mean 54.35
Std Dev 29.87

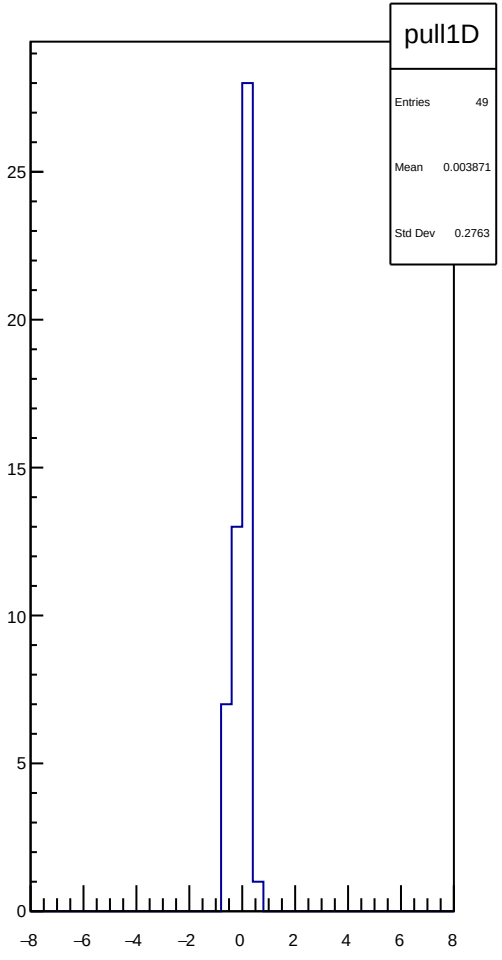

pull1D
Entries 49
Mean −0.007593
Std Dev 0.5671

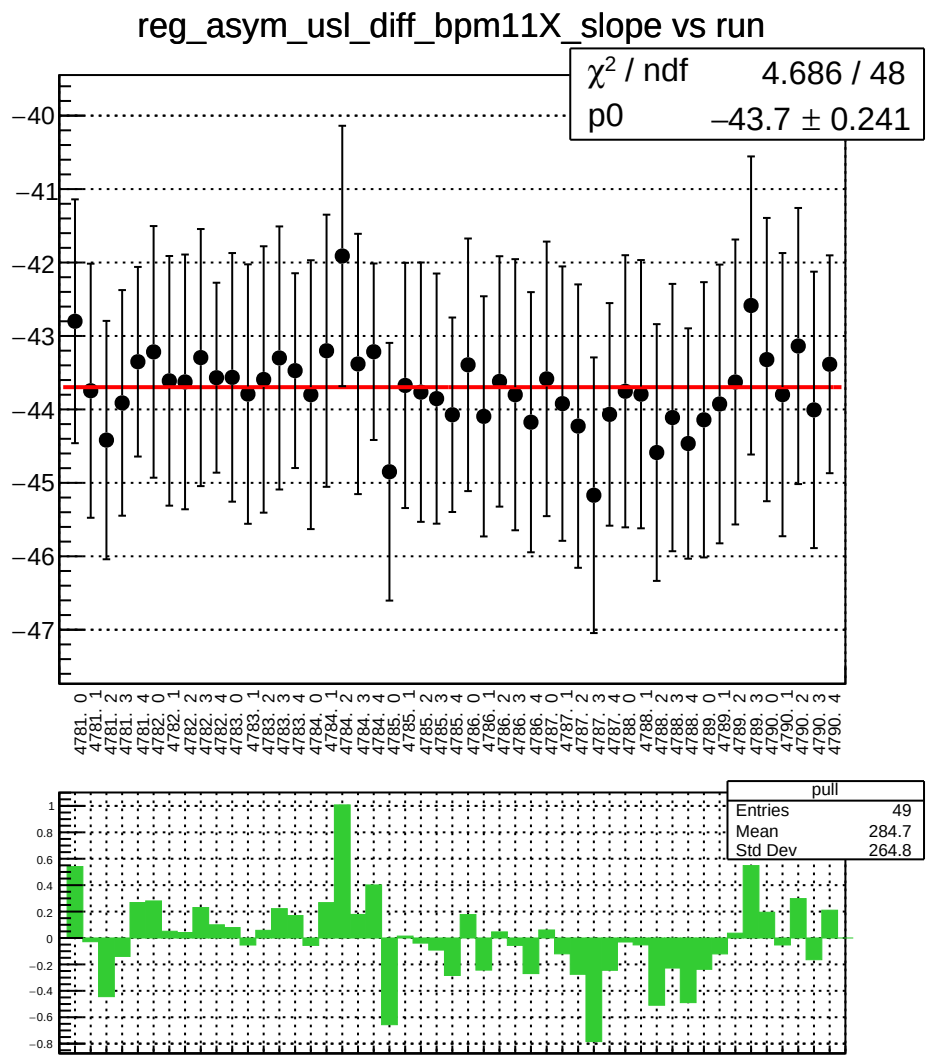

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 4.159 / 48
p0 −5.427 ± 0.9462
pull
Entries 49
Mean 190.7
Std Dev 165.1

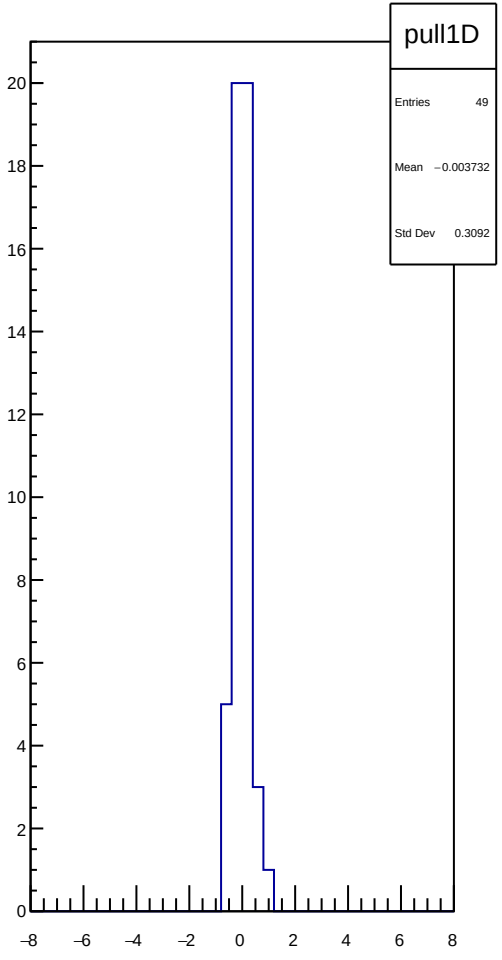

pull1D
Entries 49
Mean −0.01243
Std Dev 0.2911

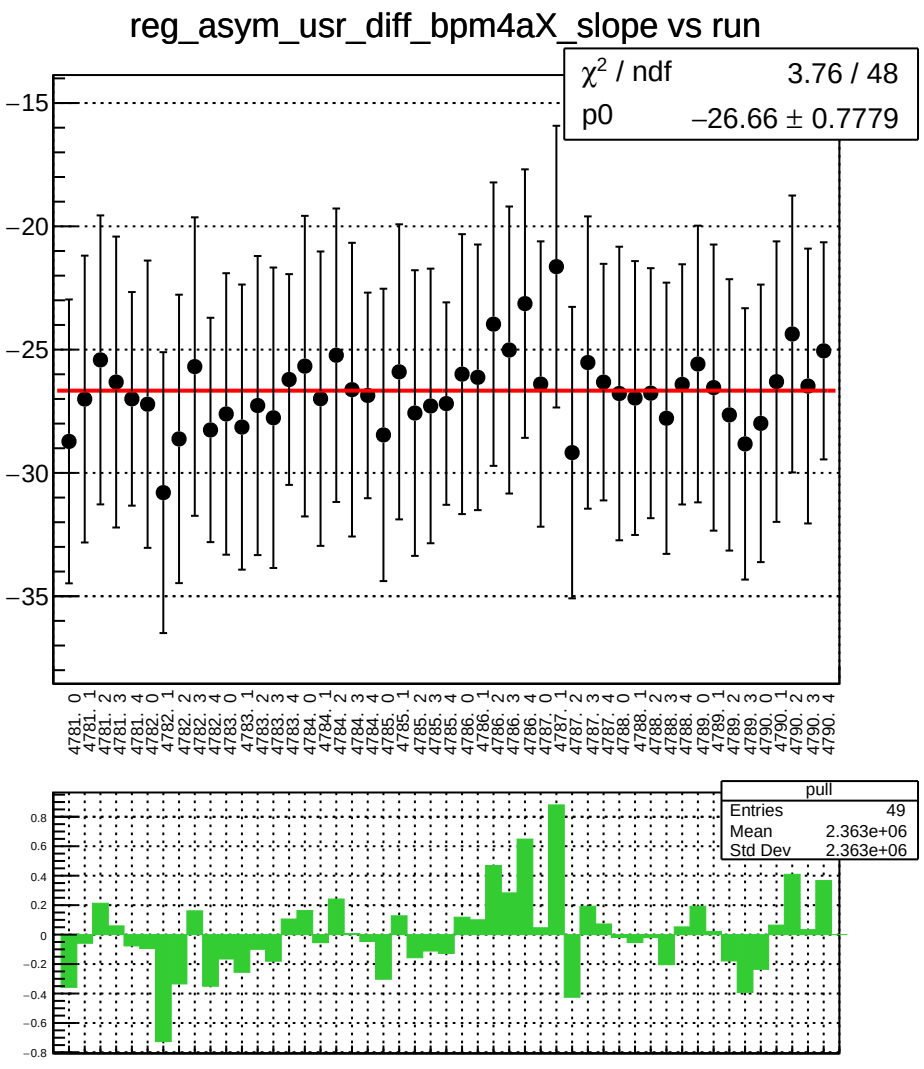

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 43.59 / 48
p0 −64.82 ± 0.16
pull
Entries 49
Mean 187.9
Std Dev 166.7
pull1D
Entries 49
Mean −0.05105
Std Dev 0.9418

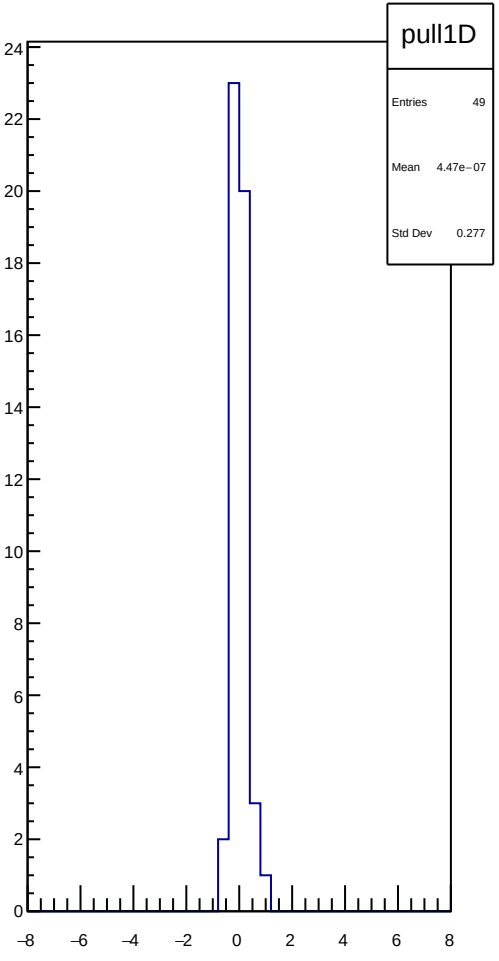

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 3.743 / 48
p0 6.461 ± 1.141
pull
Entries 49
Mean 217.8
Std Dev 190.7

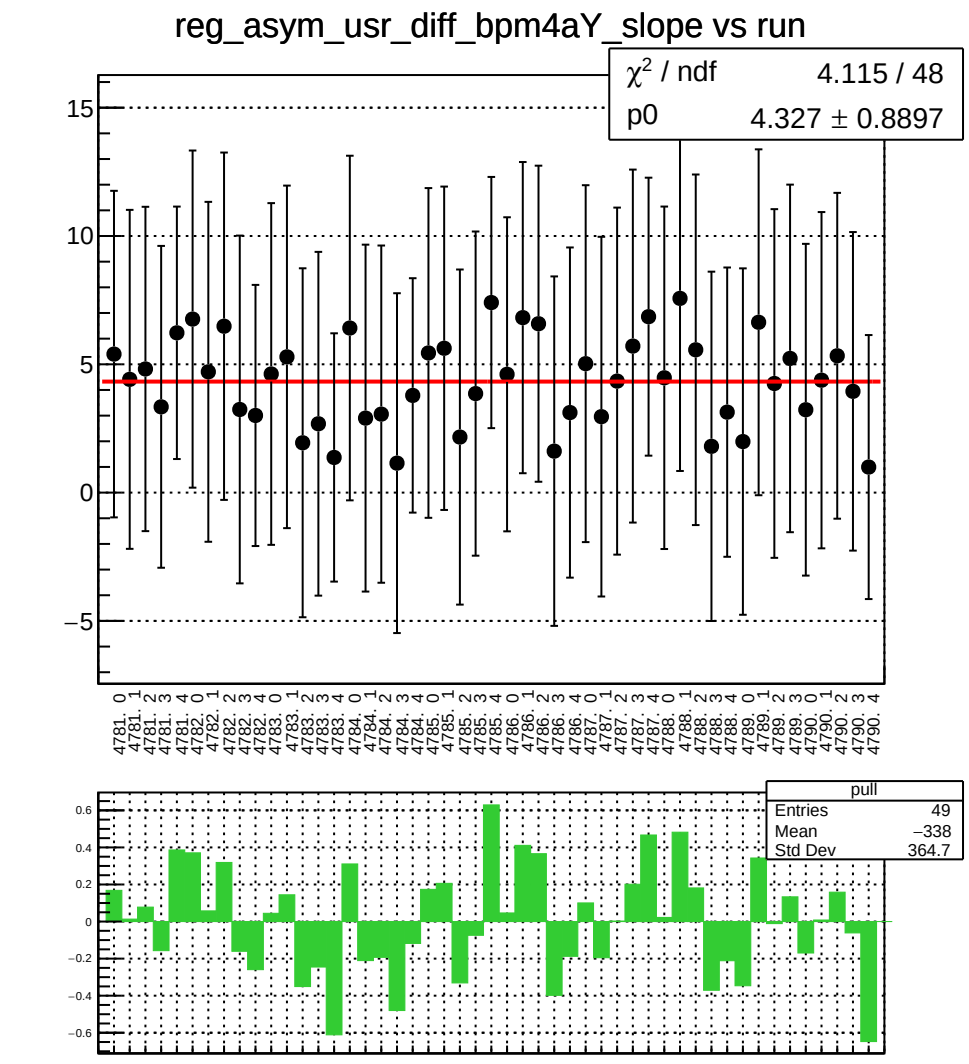

pull1D
Entries 49
Mean 0.003871
Std Dev 0.2763

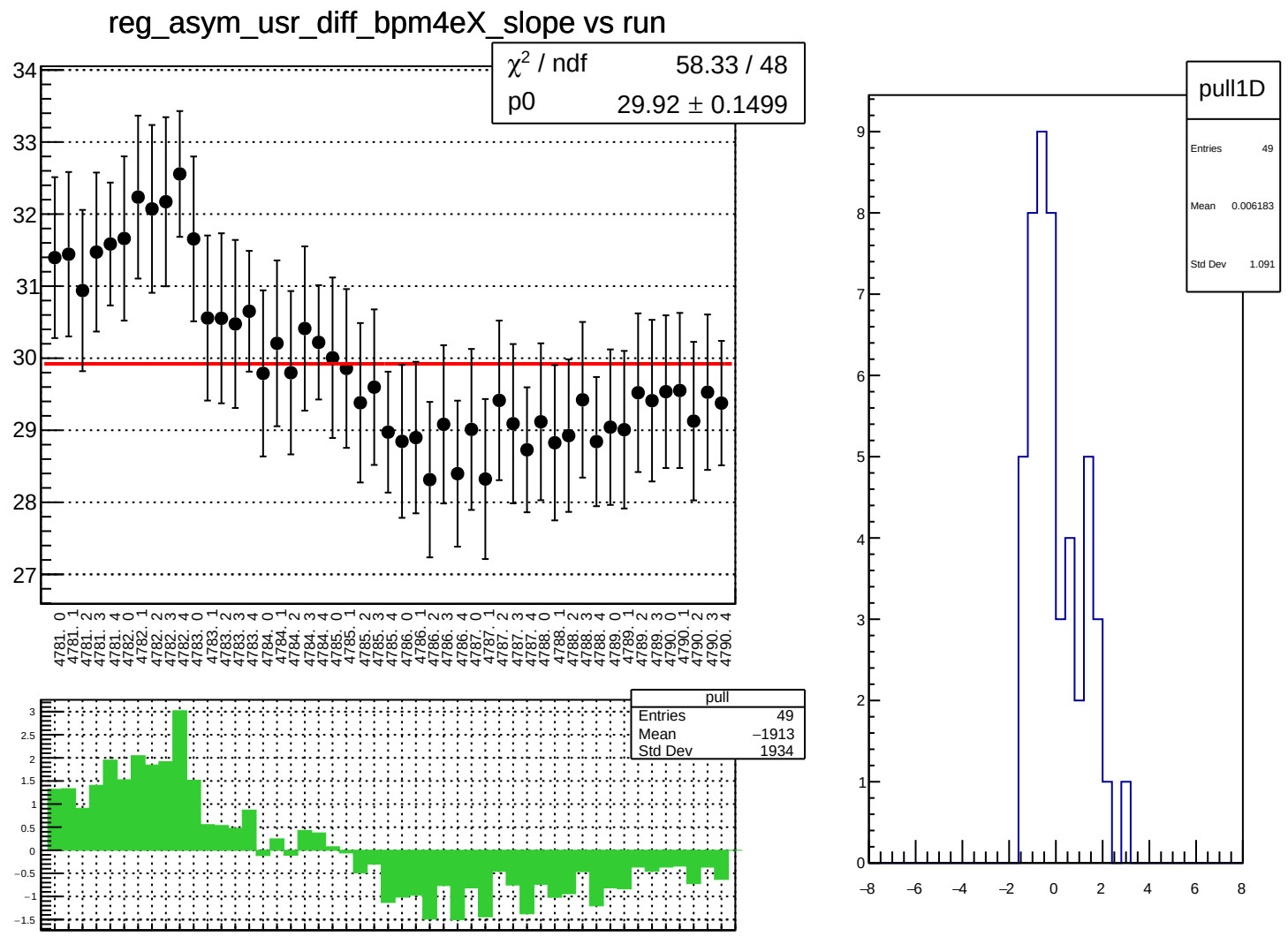

reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 4.686 / 48
p0 −43.7 ± 0.241
pull
Entries 49
Mean 284.7
Std Dev 264.8

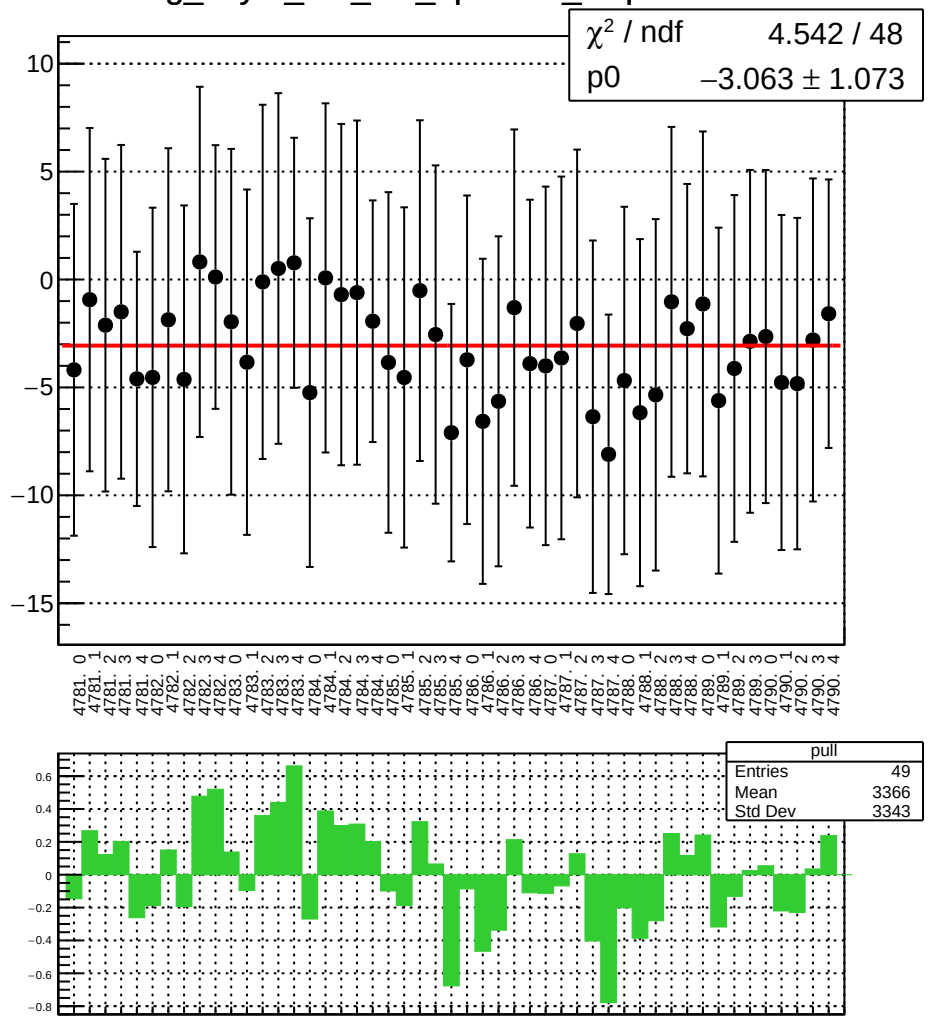

pull1D
Entries 49
Mean −0.003732
Std Dev 0.3092

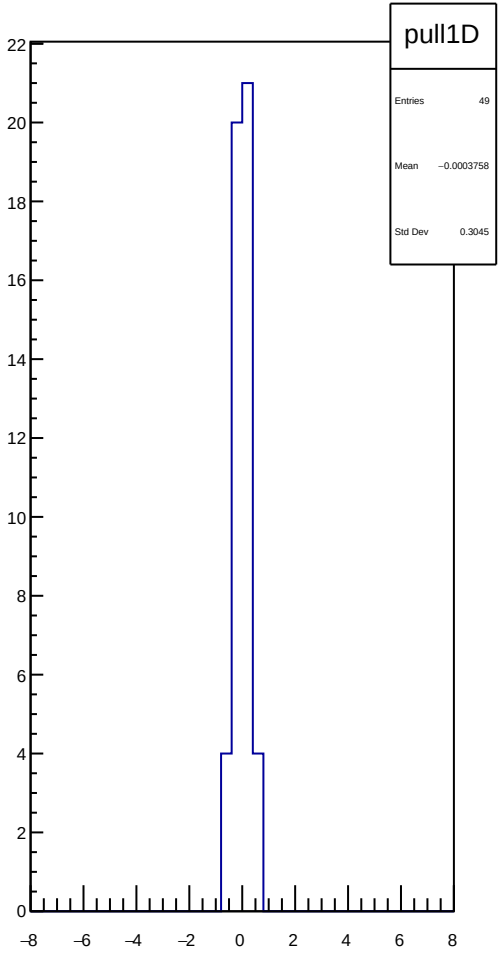

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 3.76 / 48
p0 −26.66 ± 0.7779
pull
Entries 49
Mean 2.363e+06
Std Dev 2.363e+06

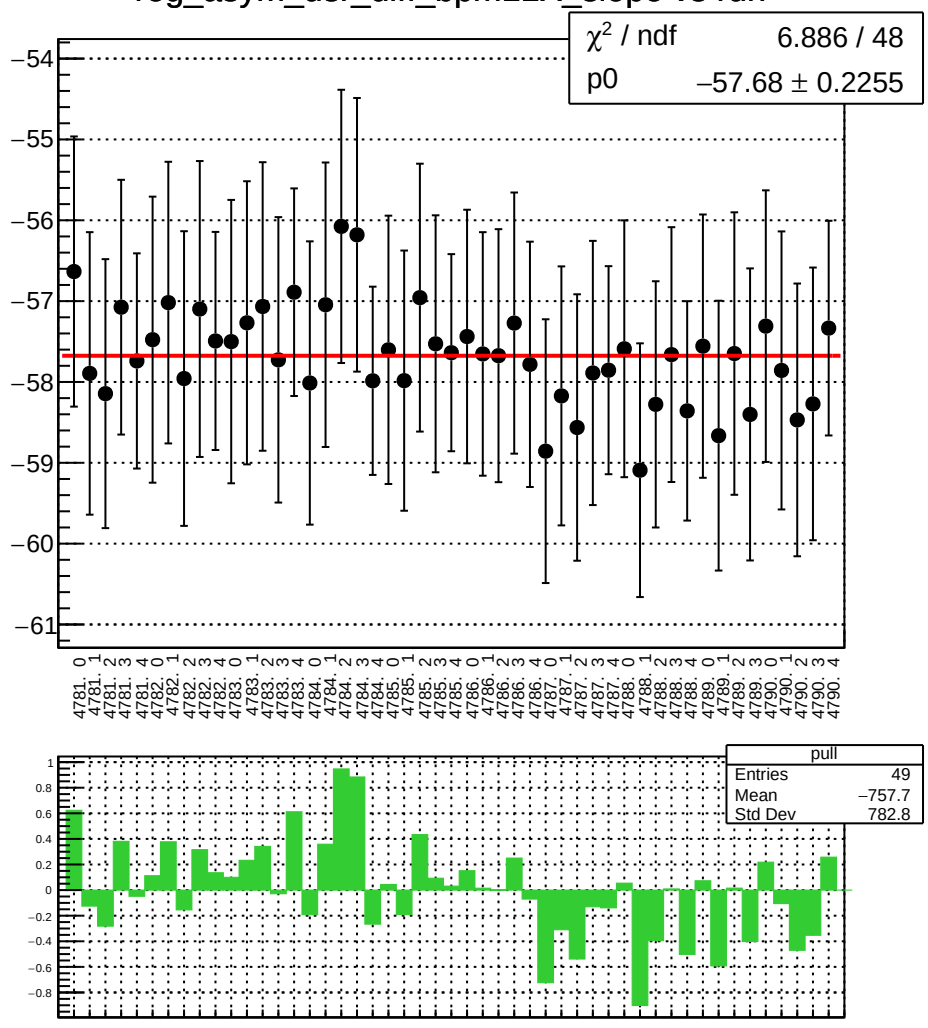

pull1D
Entries 49
Mean 4.47e−07
Std Dev 0.277

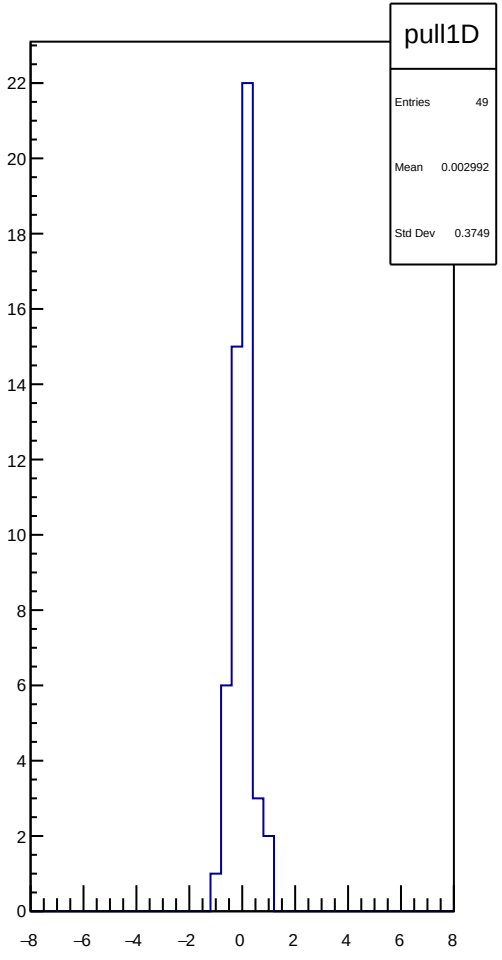

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 4.115 / 48
p0 4.327 ± 0.8897
15
10
5
0
−5
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −338
Std Dev 364.7
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 49
Mean 0.0007165
Std Dev 0.2898
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

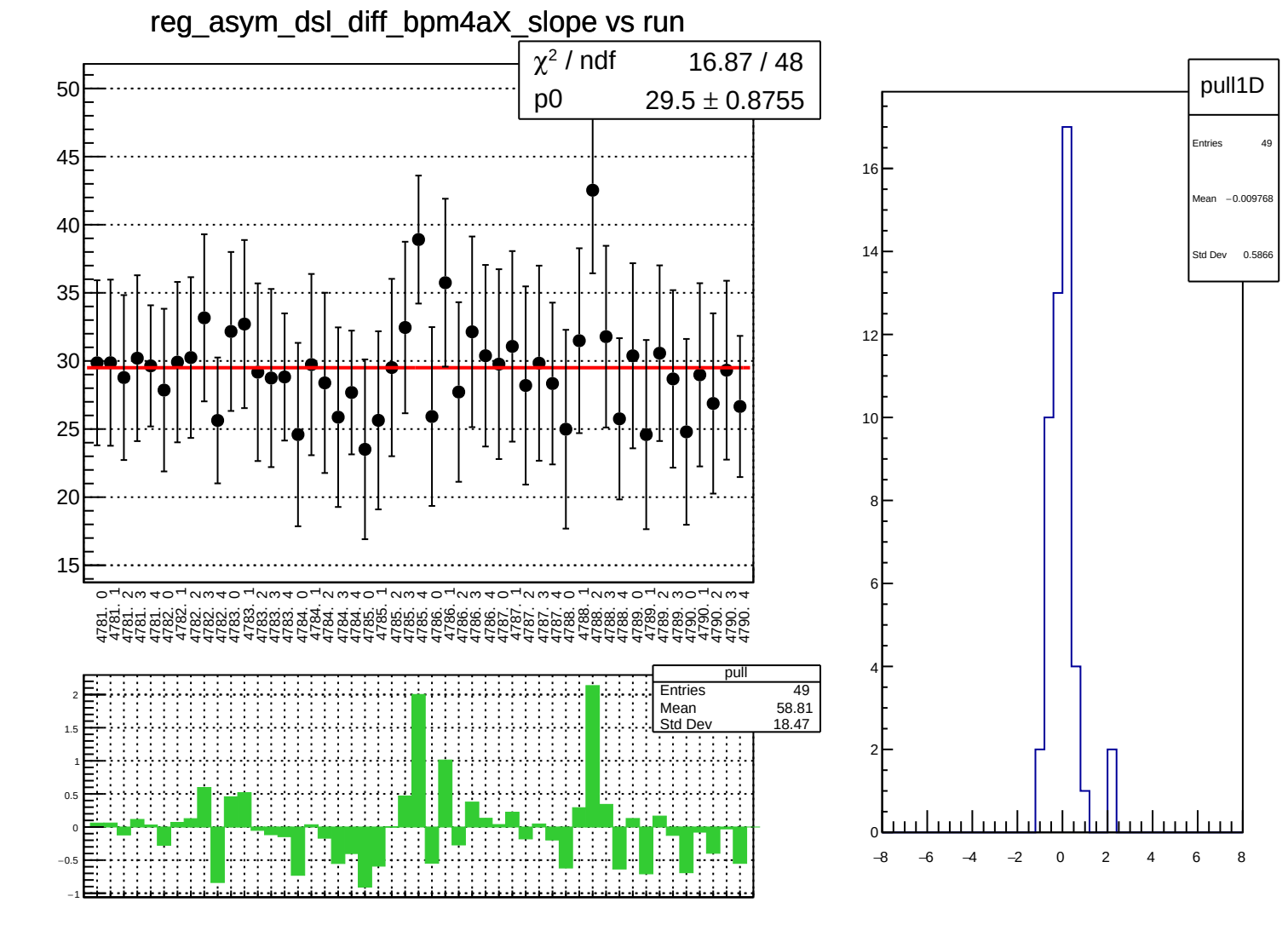

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 58.33 / 48
p0 29.92 ± 0.1499
pull
Entries 49
Mean −1913
Std Dev 1934
pull1D
Entries 49
Mean 0.006183
Std Dev 1.091

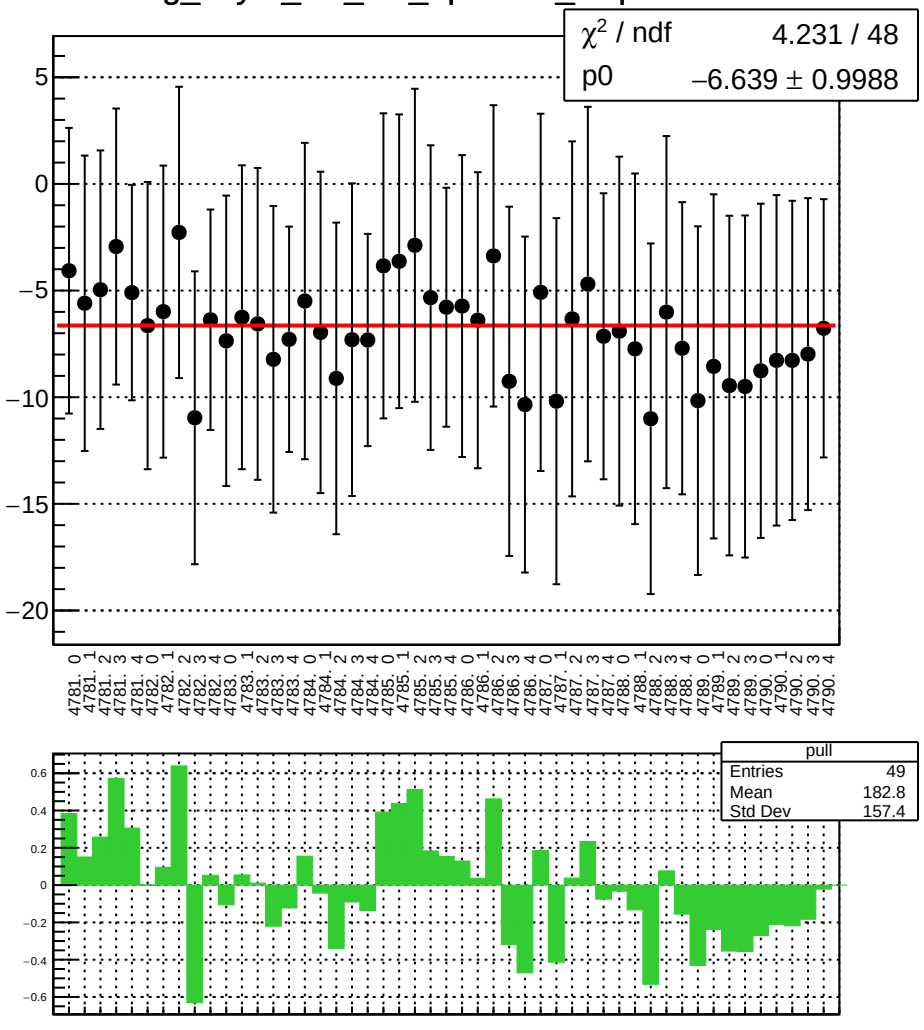

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 4.542 / 48
p0 −3.063 ± 1.073
pull
Entries 49
Mean 3366
Std Dev 3343

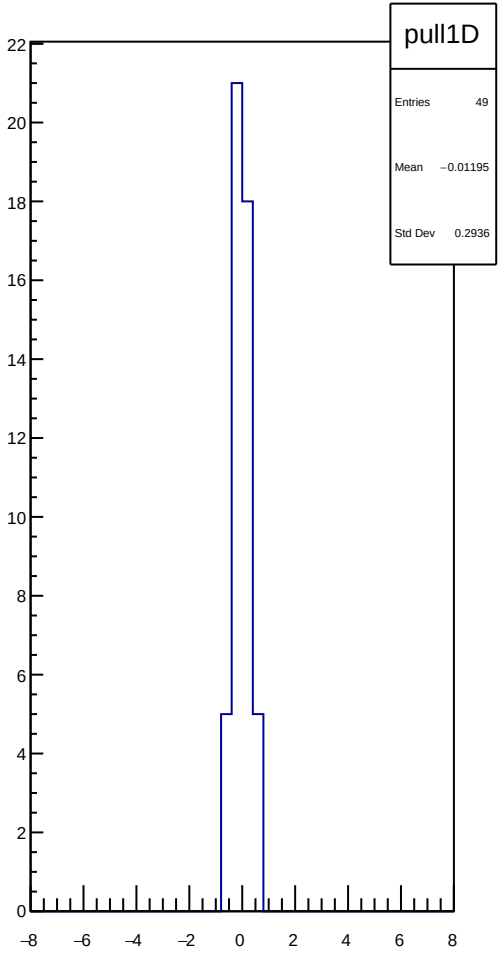

pull1D
Entries 49
Mean −0.0003758
Std Dev 0.3045

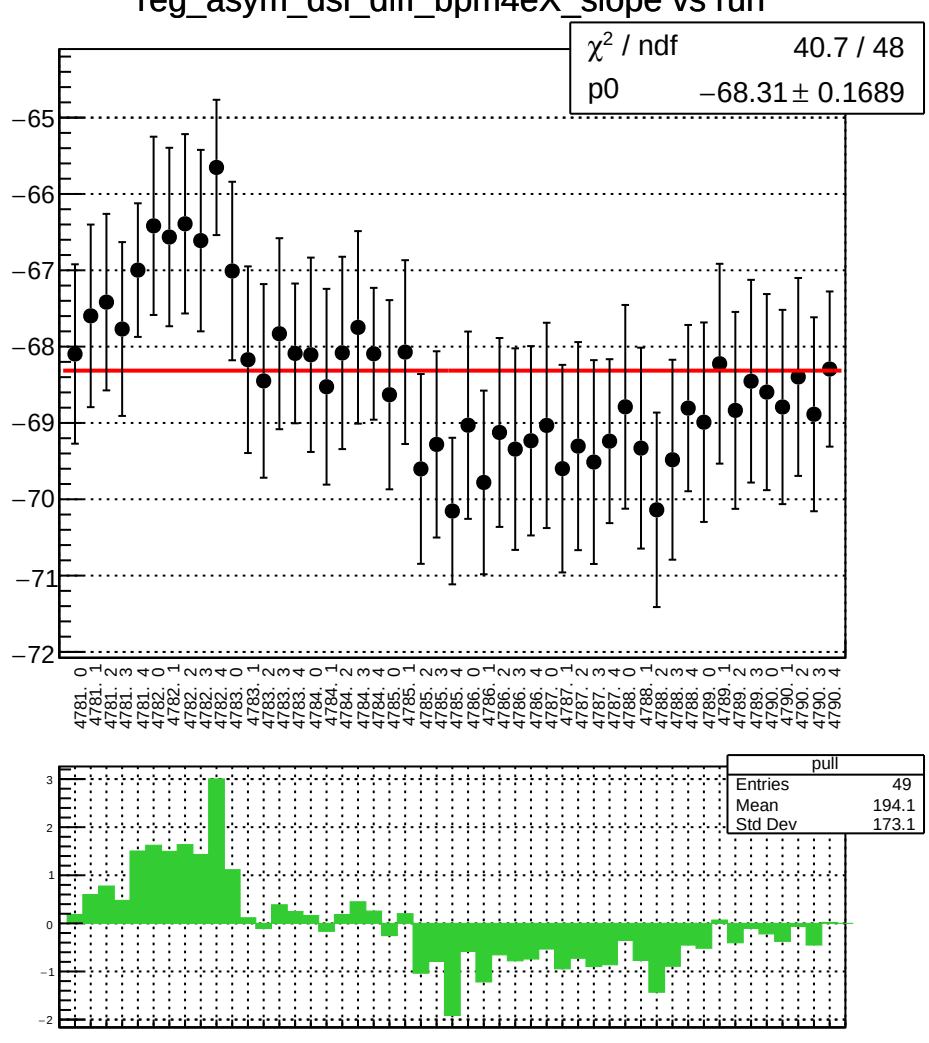

reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 6.886 / 48
p0 −57.68 ± 0.2255
pull
Entries 49
Mean −757.7
Std Dev 782.8

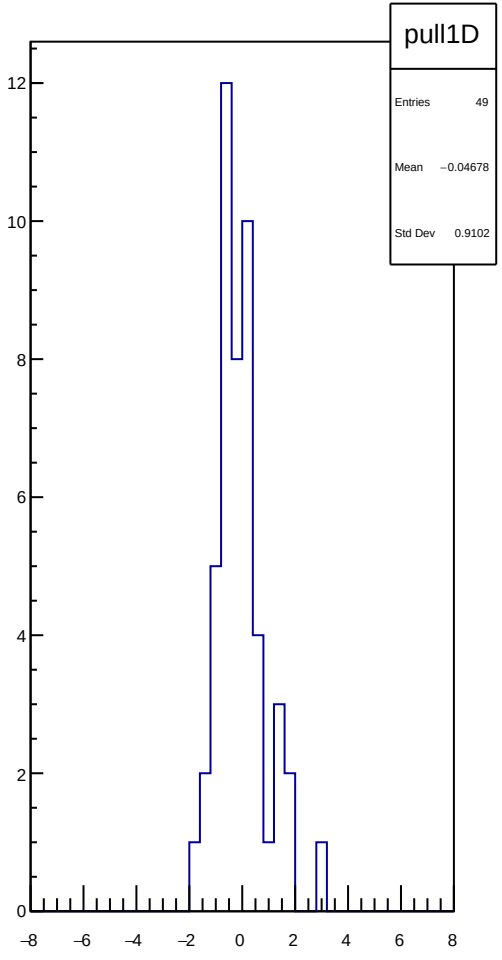

pull1D
Entries 49
Mean 0.002992
Std Dev 0.3749

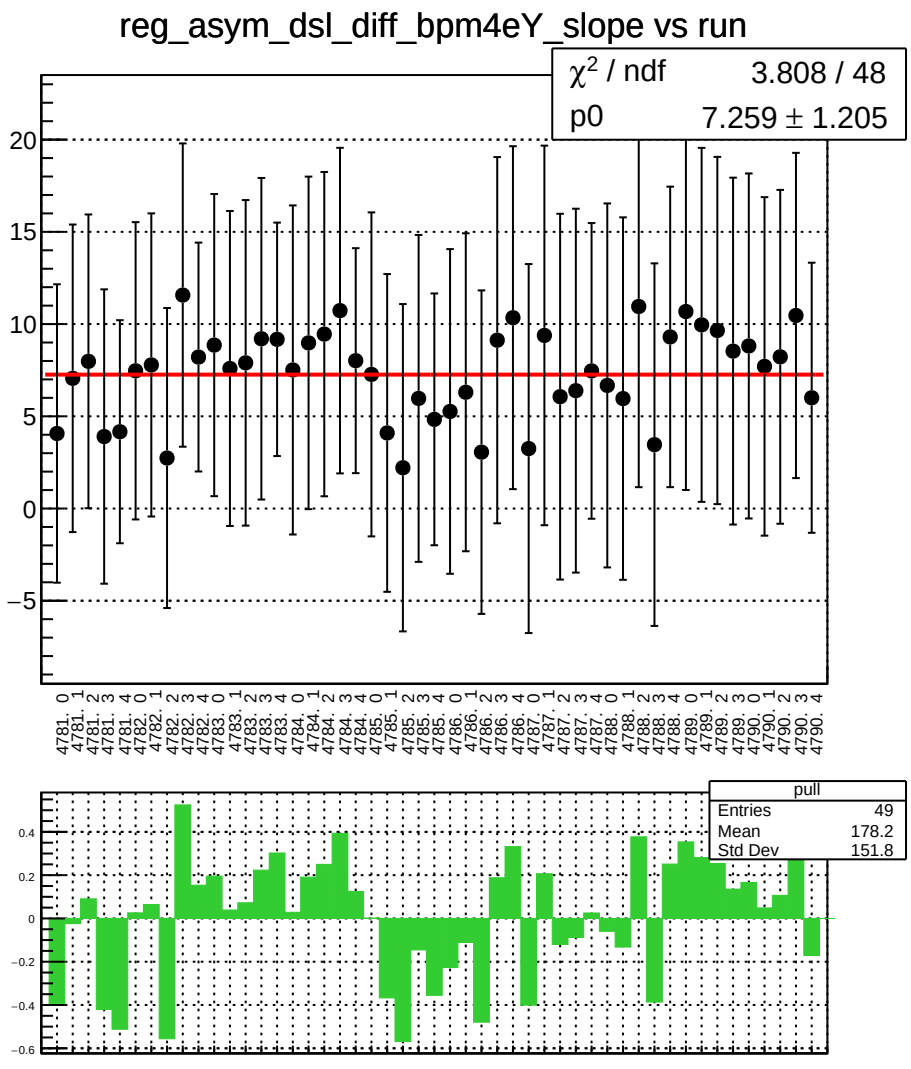

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 16.87 / 48
p0 29.5 ± 0.8755
pull
Entries 49
Mean 58.81
Std Dev 18.47
pull1D
Entries 49
Mean −0.009768
Std Dev 0.5866

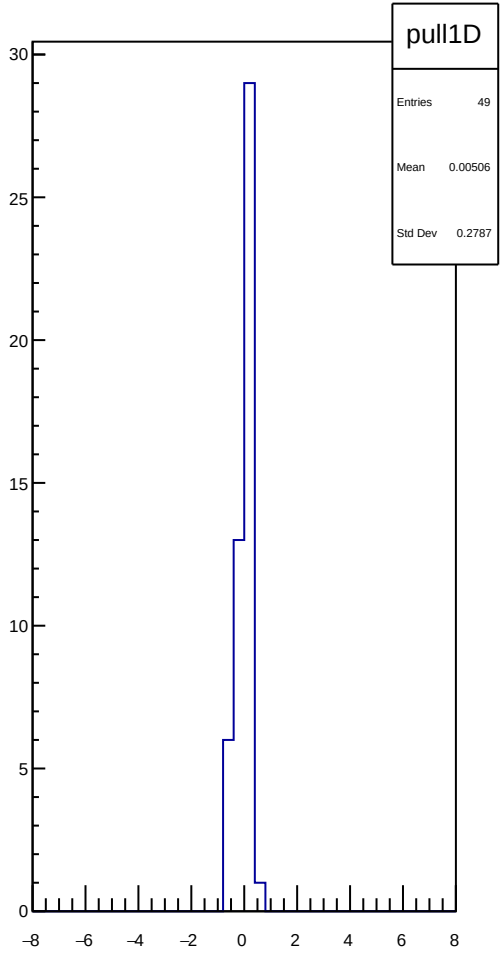

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 4.231 / 48
p0 −6.639 ± 0.9988
pull
Entries 49
Mean 182.8
Std Dev 157.4

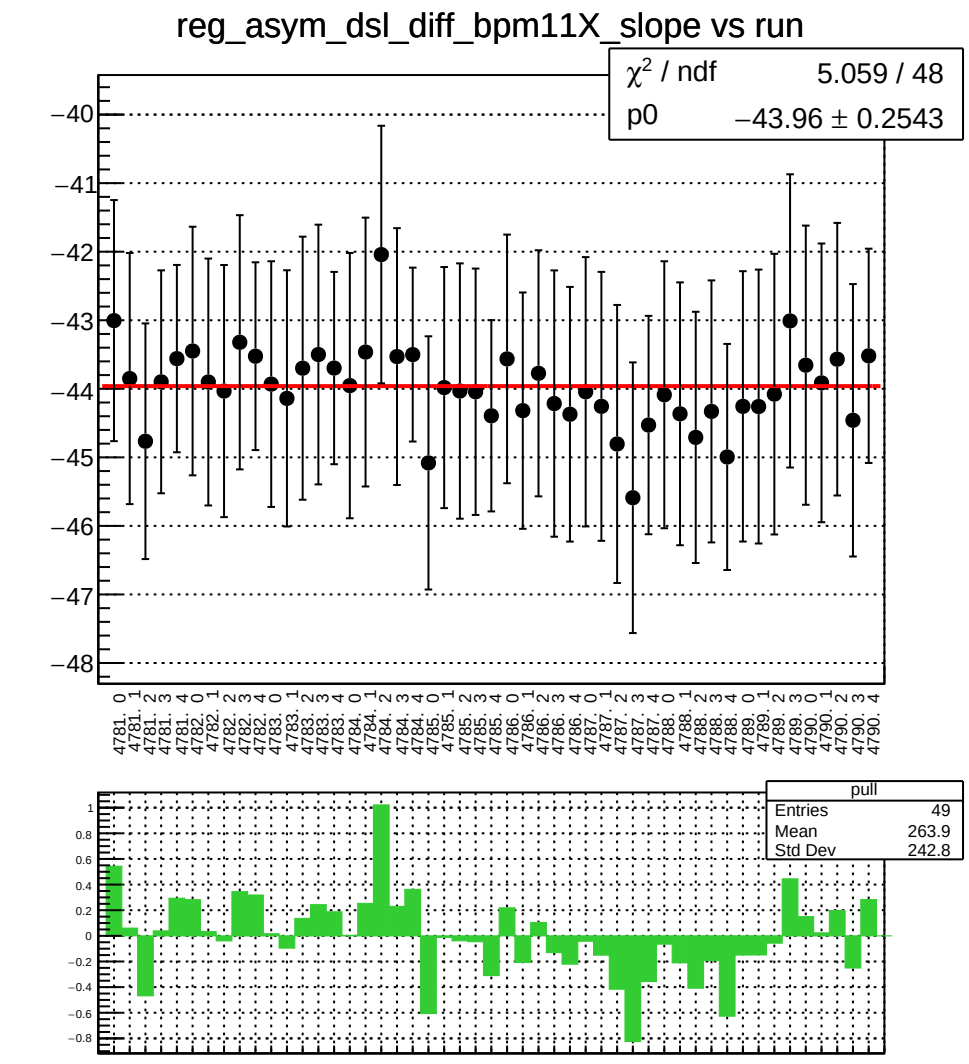

pull1D
Entries 49
Mean −0.01195
Std Dev 0.2936

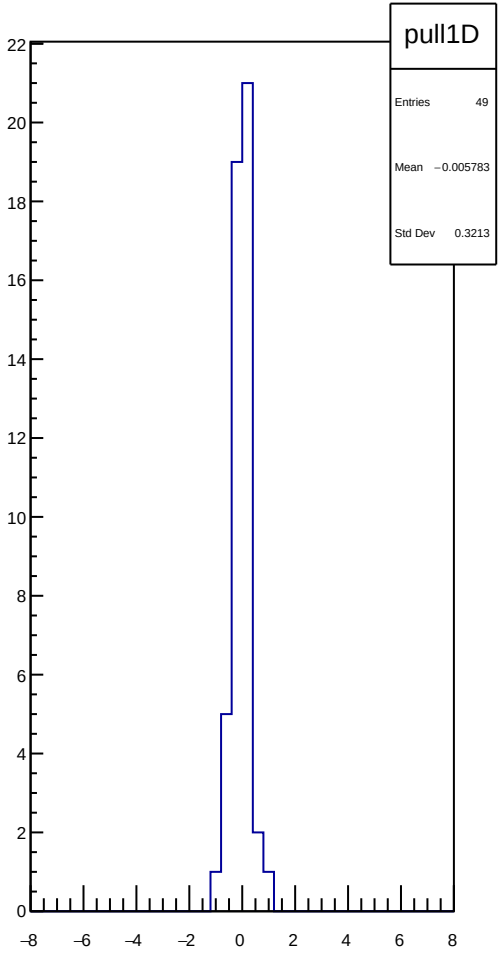

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 40.7 / 48
p0 −68.31 ± 0.1689
pull
Entries 49
Mean 194.1
Std Dev 173.1

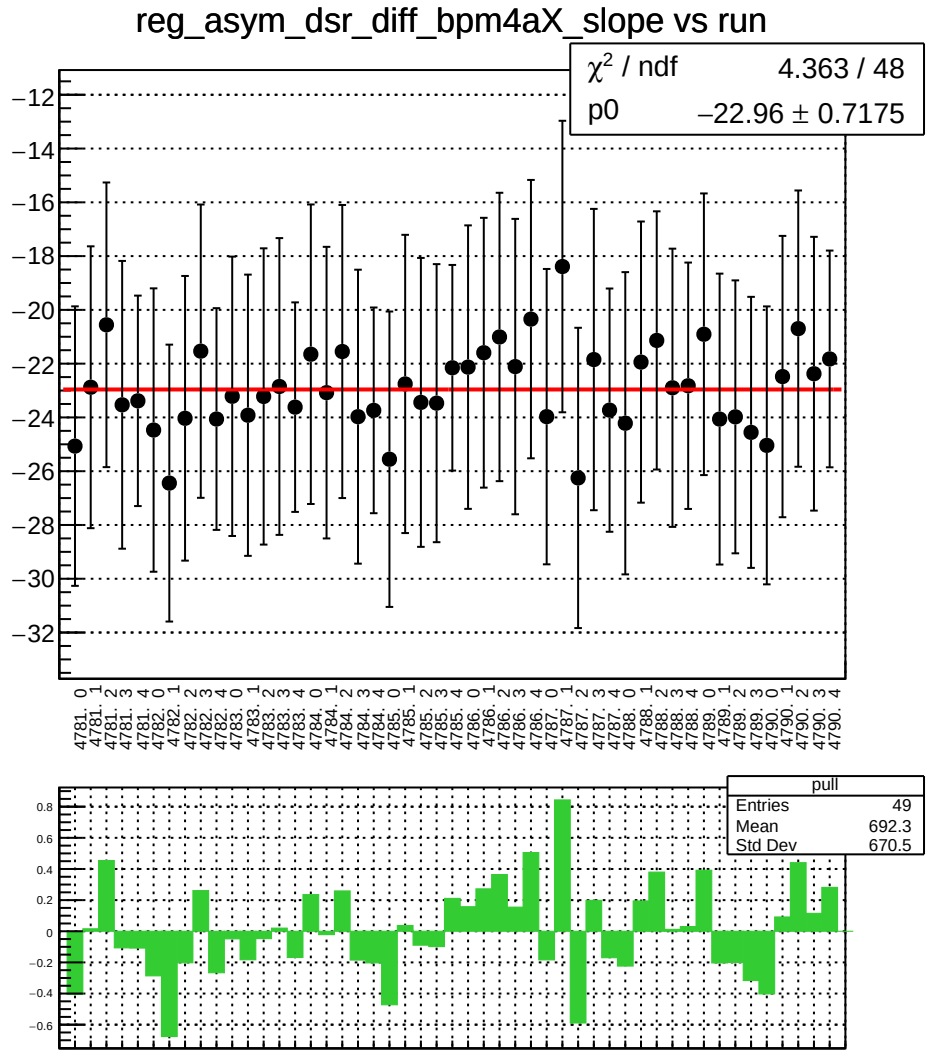

pull1D
Entries 49
Mean −0.04678
Std Dev 0.9102

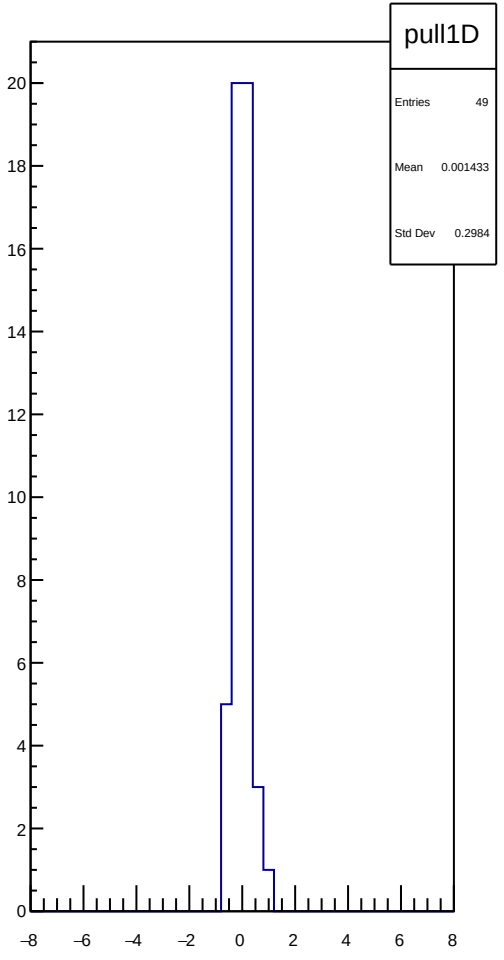

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 3.808 / 48
p0 7.259 ± 1.205
pull
Entries 49
Mean 178.2
Std Dev 151.8

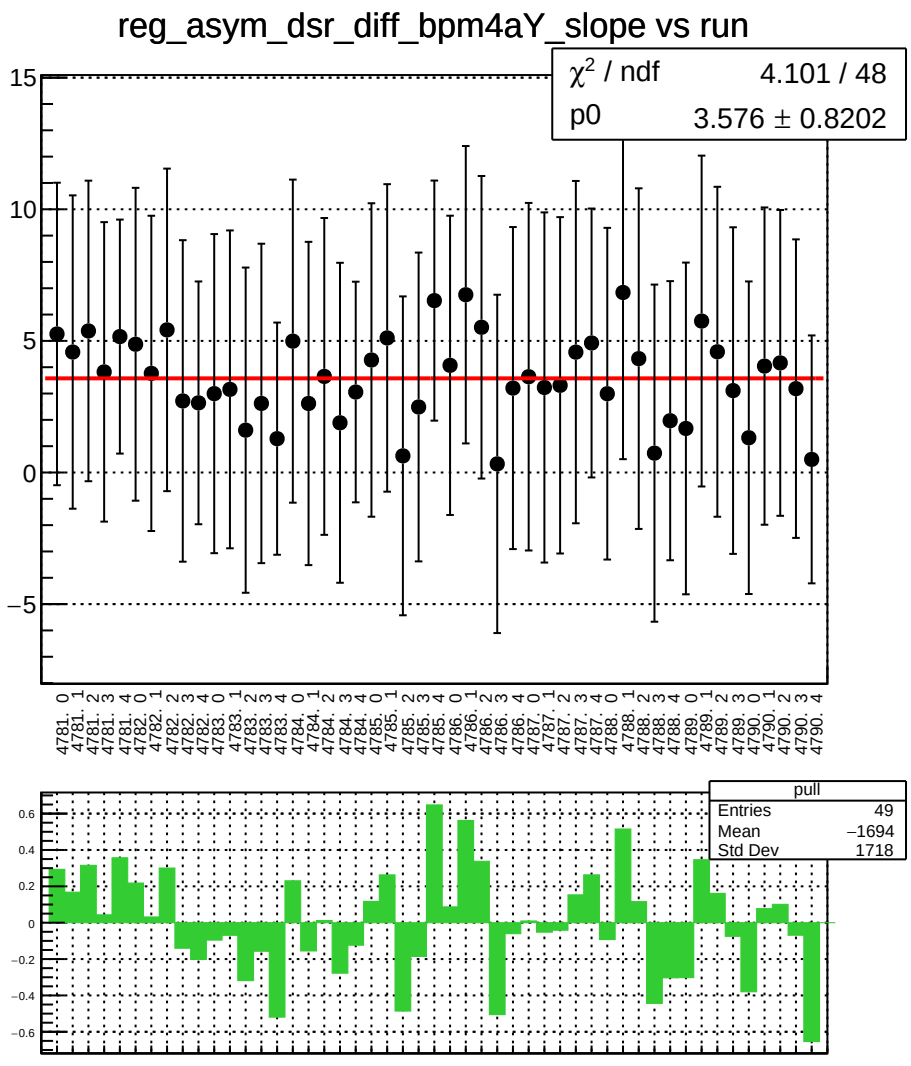

pull1D
Entries 49
Mean 0.00506
Std Dev 0.2787

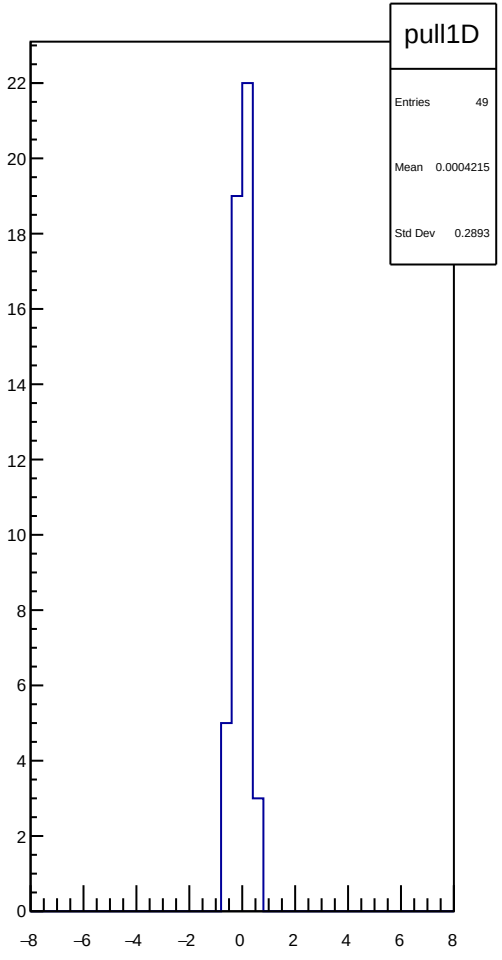

reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 5.059 / 48
p0 −43.96 ± 0.2543
pull
Entries 49
Mean 263.9
Std Dev 242.8

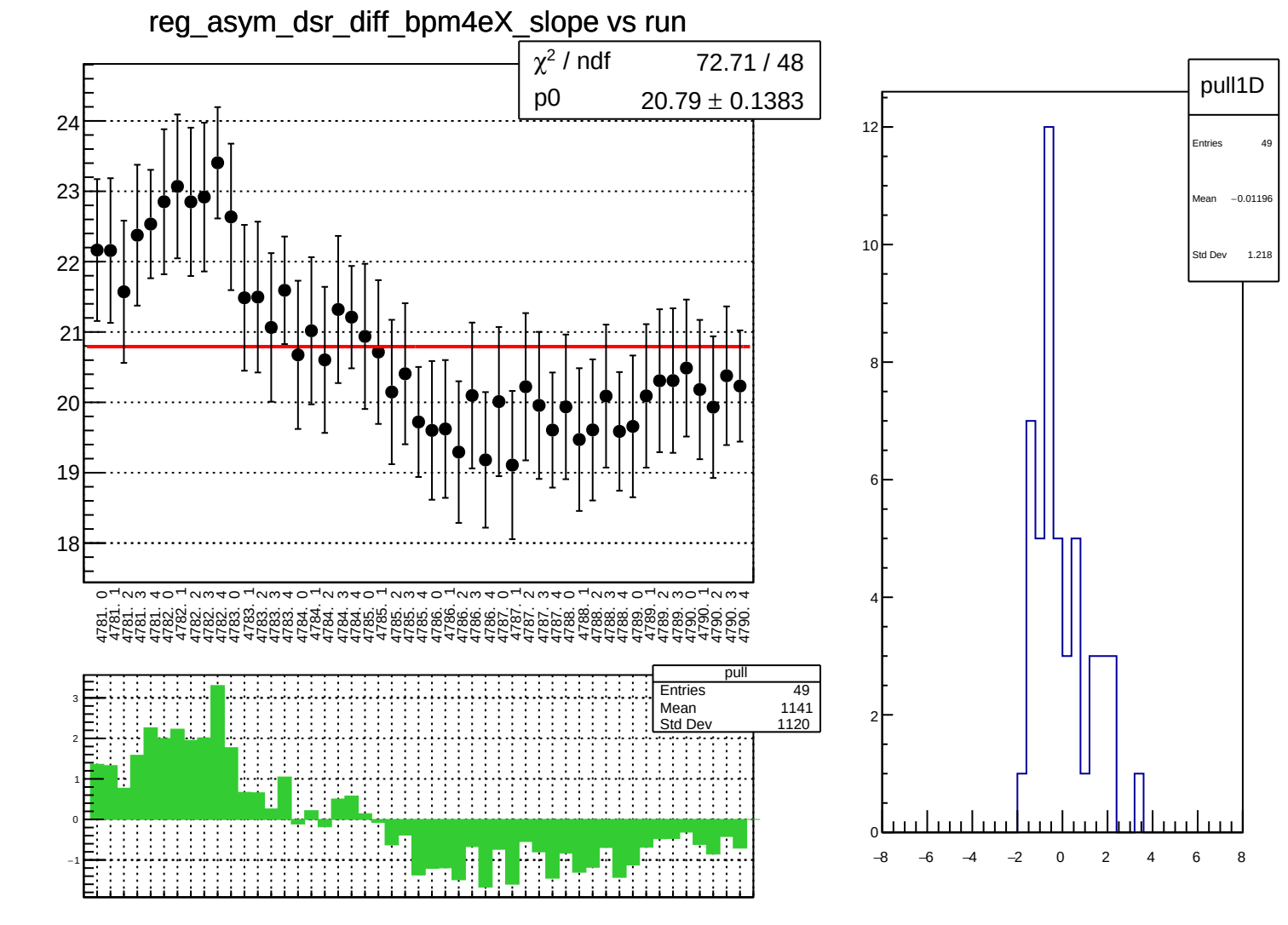

pull1D
Entries 49
Mean −0.005783
Std Dev 0.3213

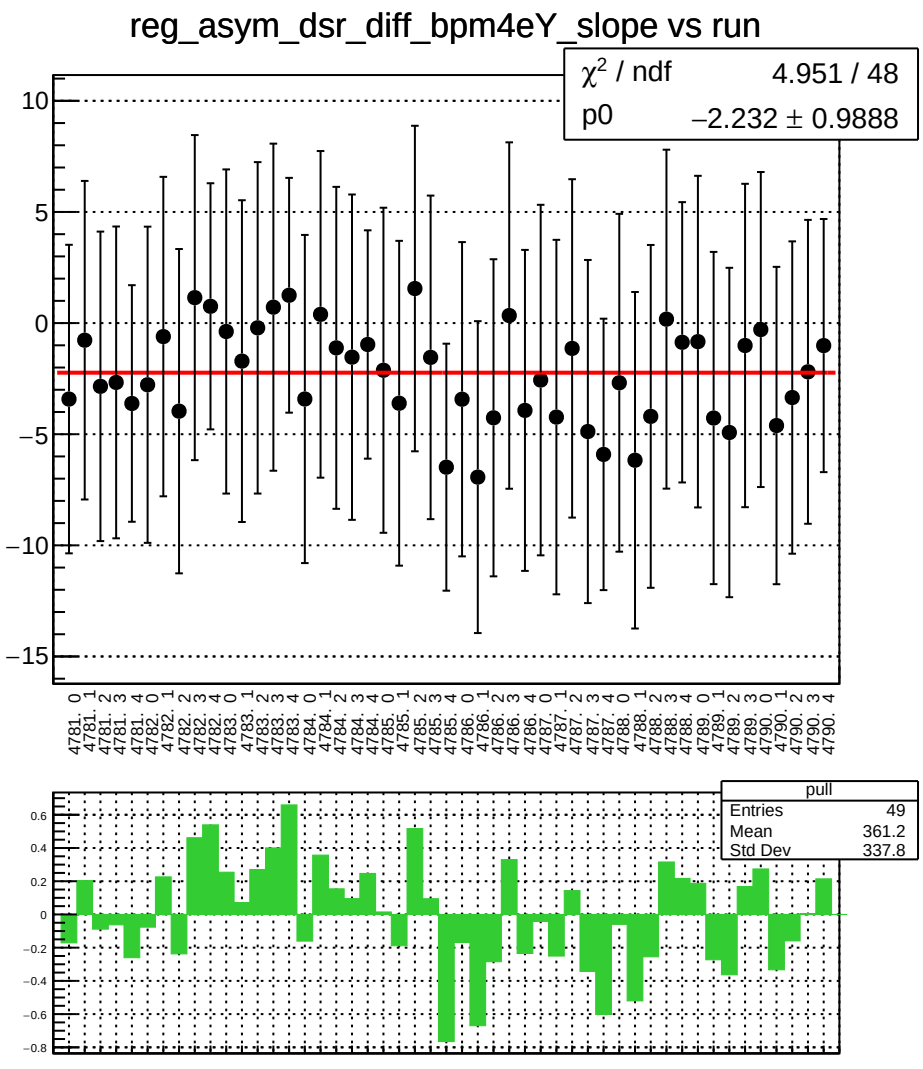

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 4.363 / 48
p0 −22.96 ± 0.7175
pull
Entries 49
Mean 692.3
Std Dev 670.5

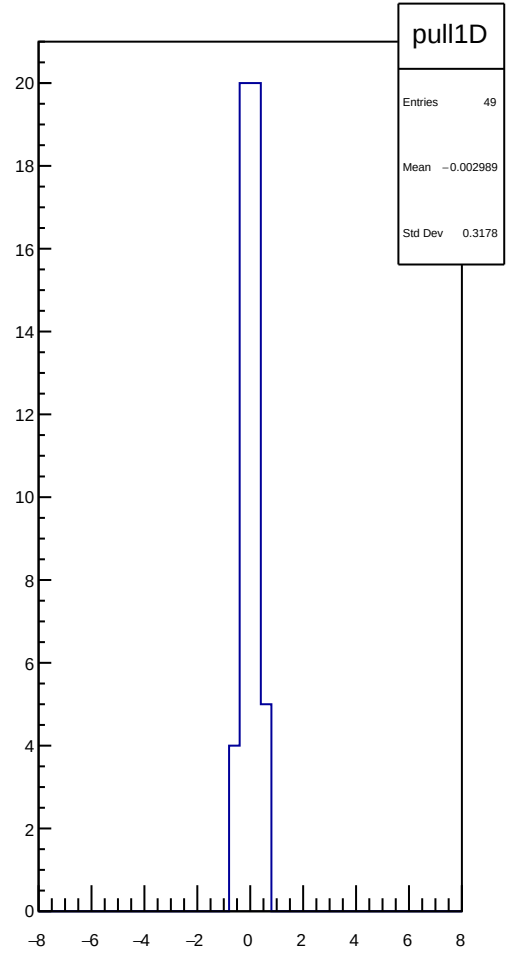

pull1D
Entries 49
Mean 0.001433
Std Dev 0.2984

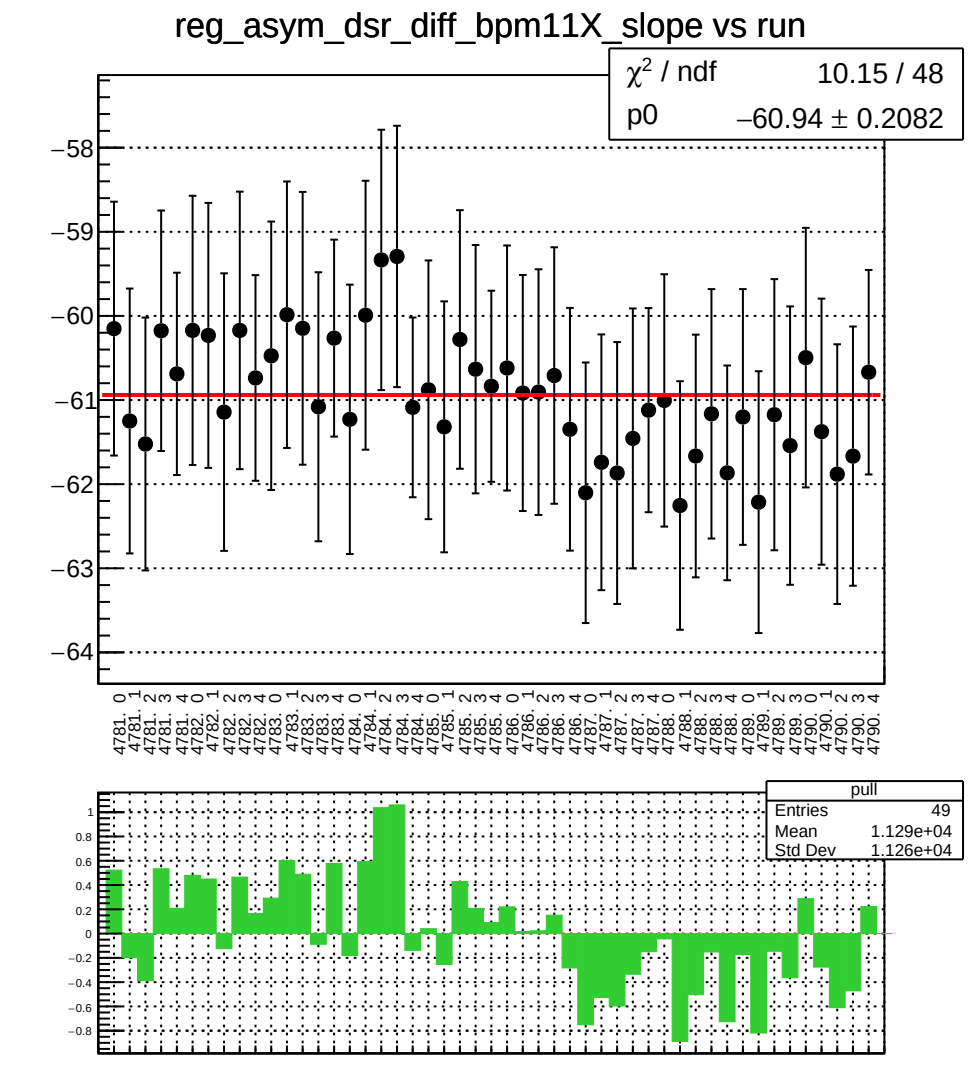

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 4.101 / 48
p0 3.576 ± 0.8202
pull
Entries 49
Mean −1694
Std Dev 1718

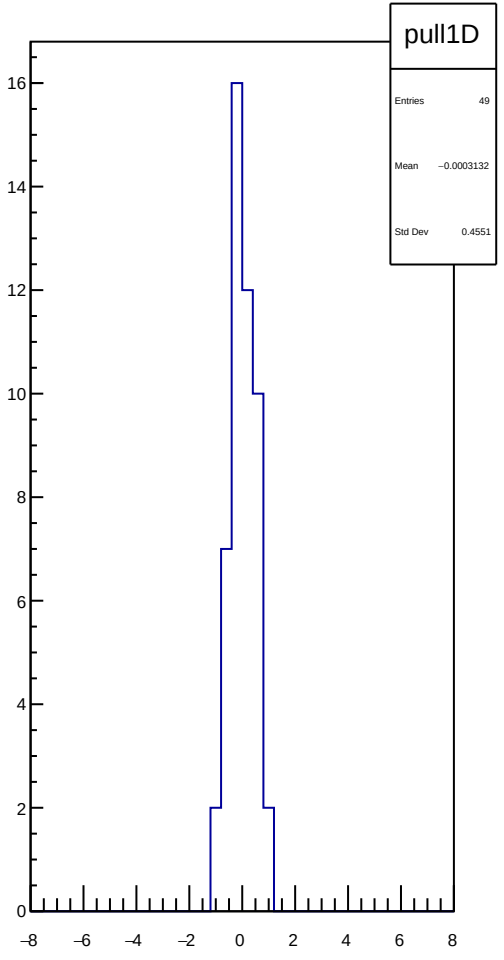

pull1D
Entries 49
Mean 0.0004215
Std Dev 0.2893

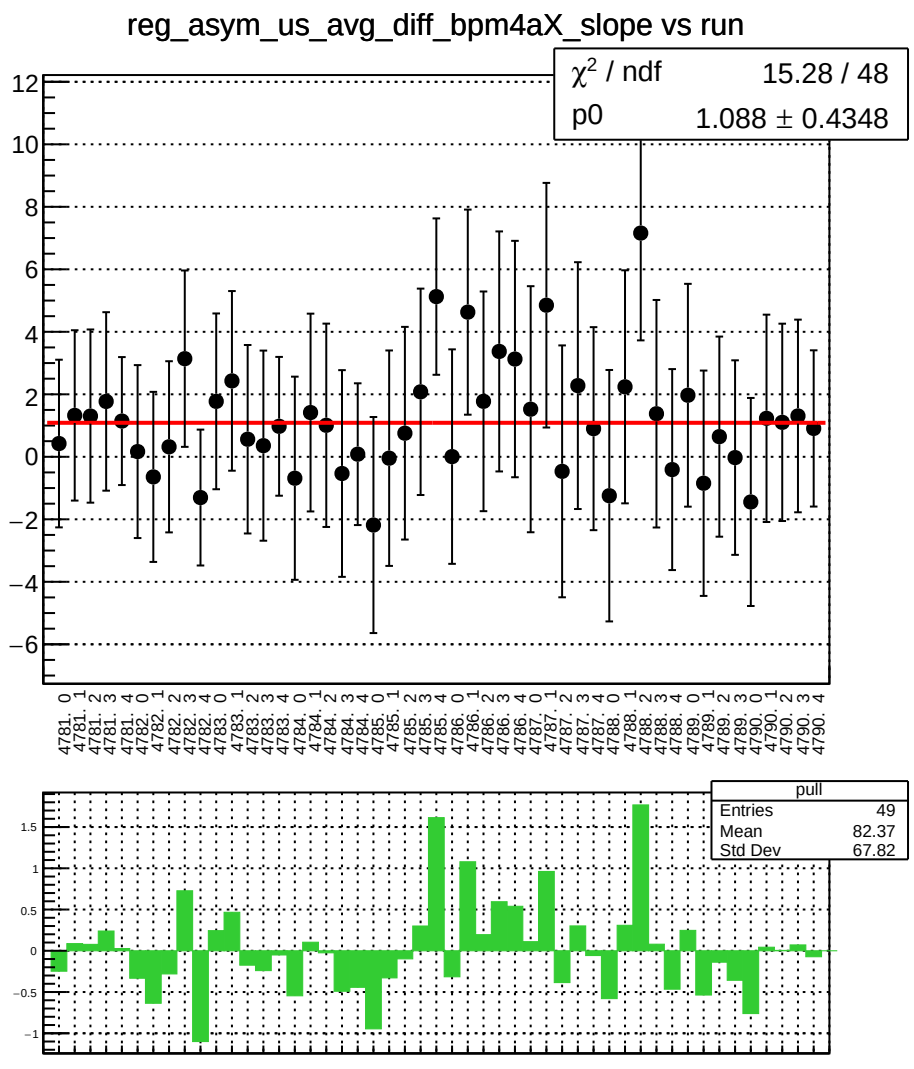

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 72.71 / 48
p0 20.79 ± 0.1383
pull
Entries 49
Mean 1141
Std Dev 1120
pull1D
Entries 49
Mean −0.01196
Std Dev 1.218

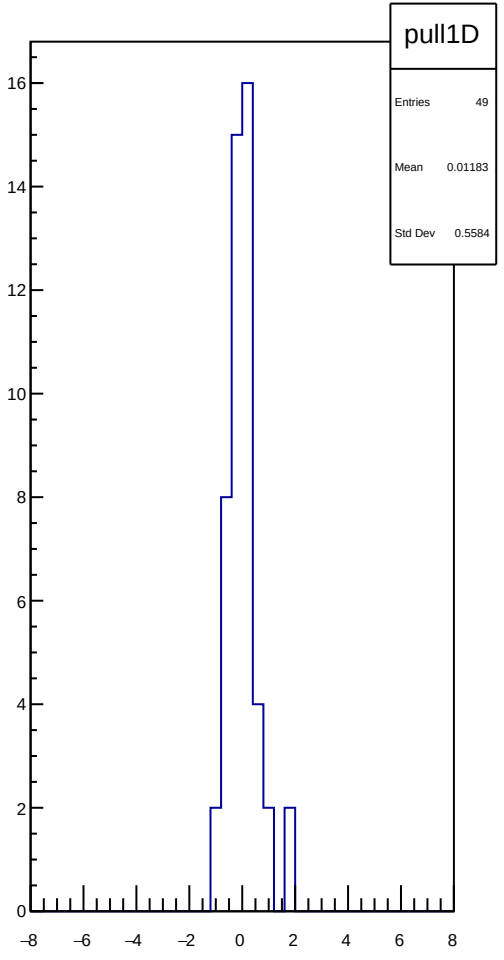

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 4.951 / 48
p0 −2.232 ± 0.9888
pull
Entries 49
Mean 361.2
Std Dev 337.8

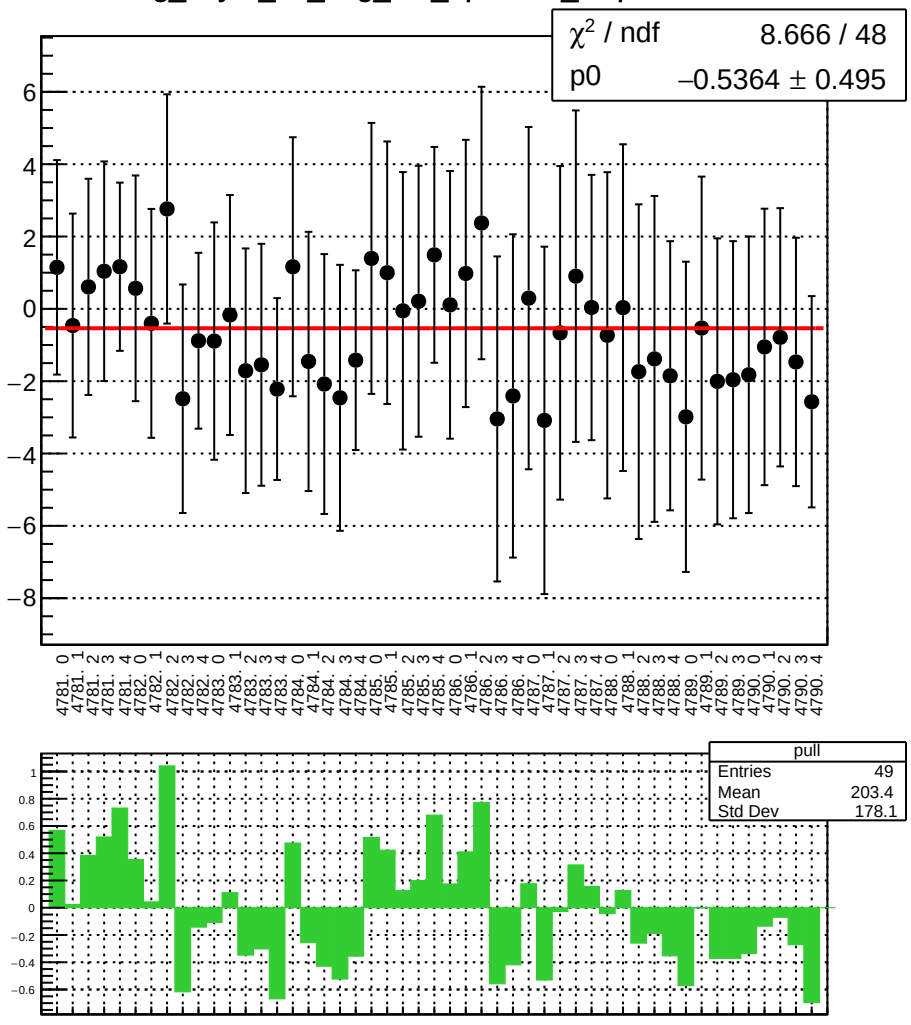

pull1D
Entries 49
Mean −0.002989
Std Dev 0.3178

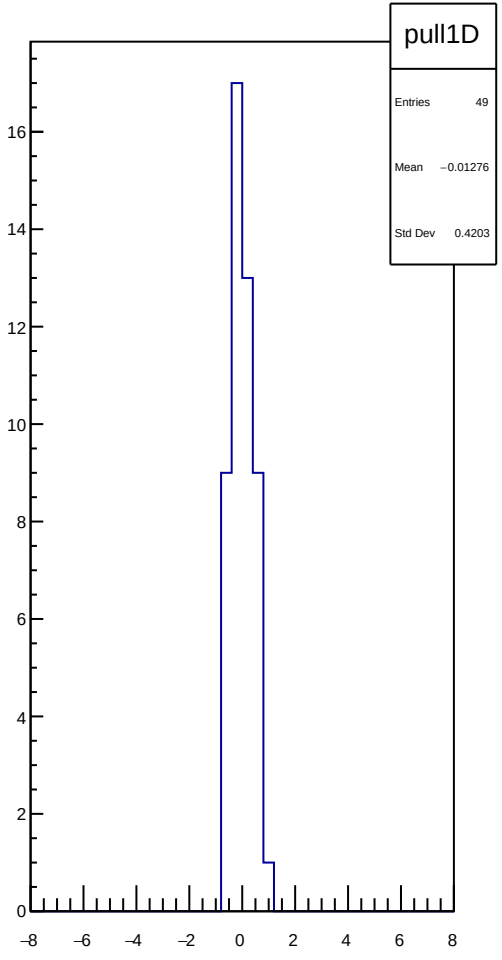

reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 10.15 / 48
p0 −60.94 ± 0.2082
pull
Entries 49
Mean 1.129e+04
Std Dev 1.126e+04

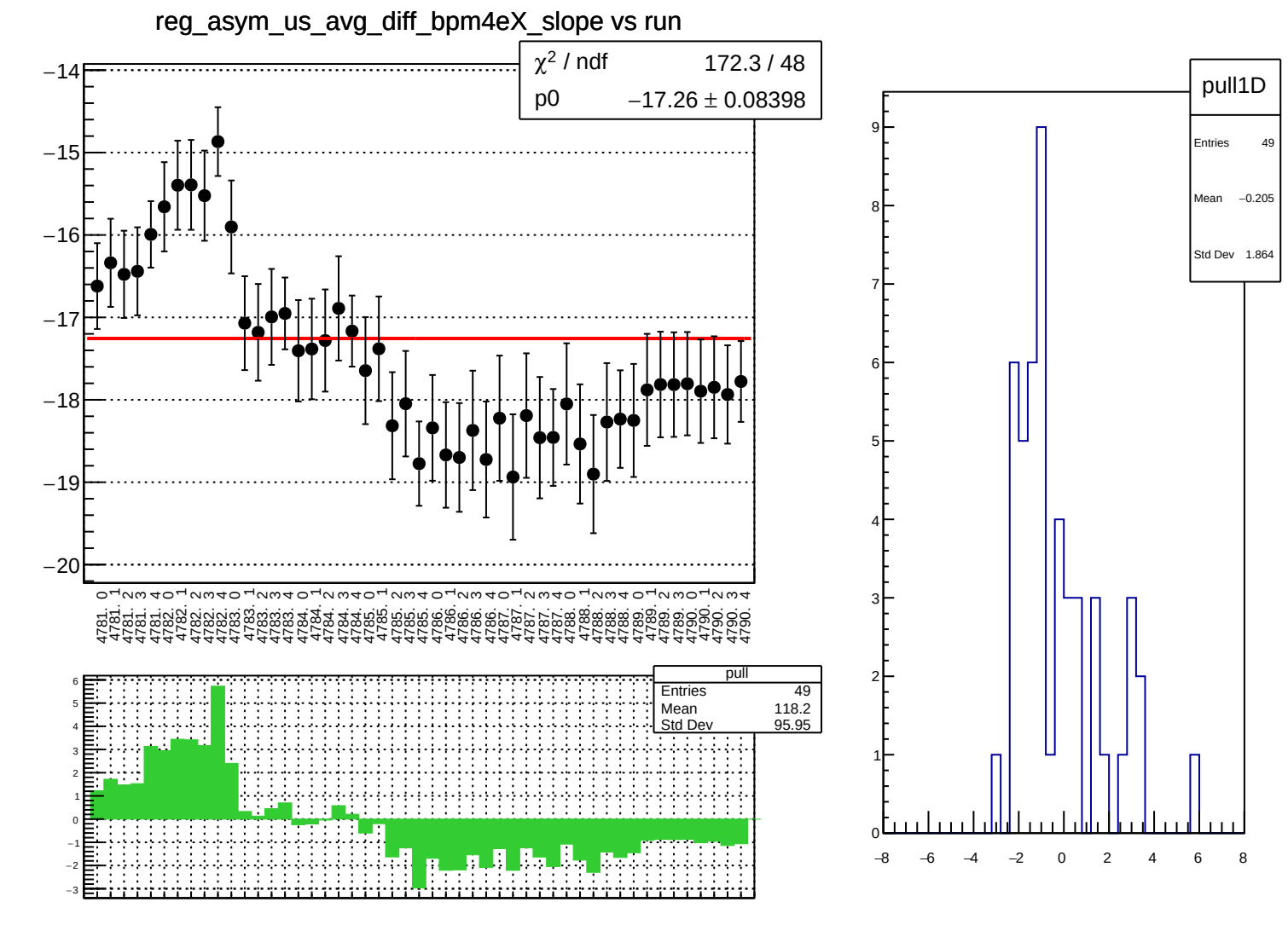

pull1D
Entries 49
Mean −0.0003132
Std Dev 0.4551

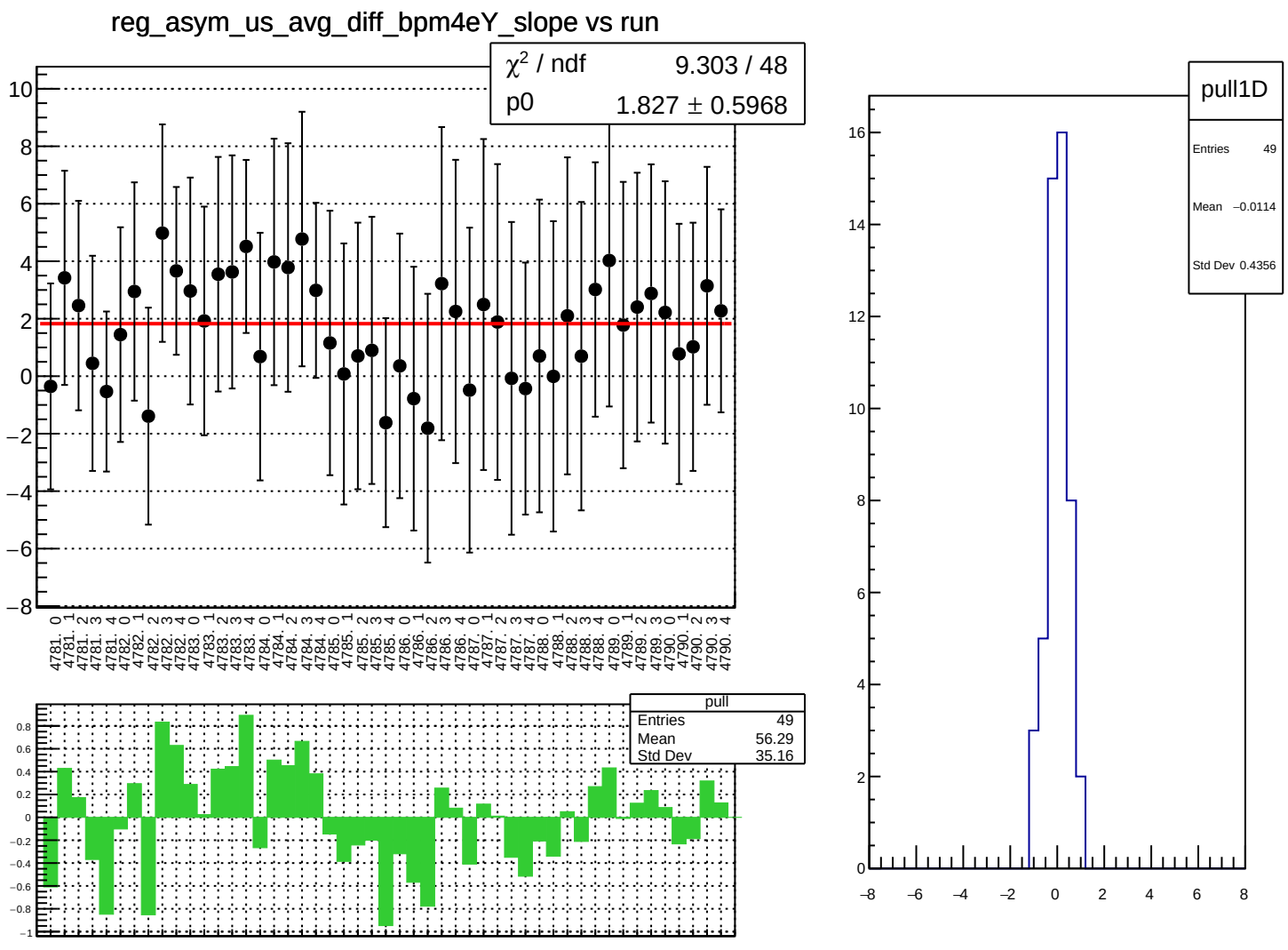

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 15.28 / 48
p0 1.088 ± 0.4348
pull
Entries 49
Mean 82.37
Std Dev 67.82

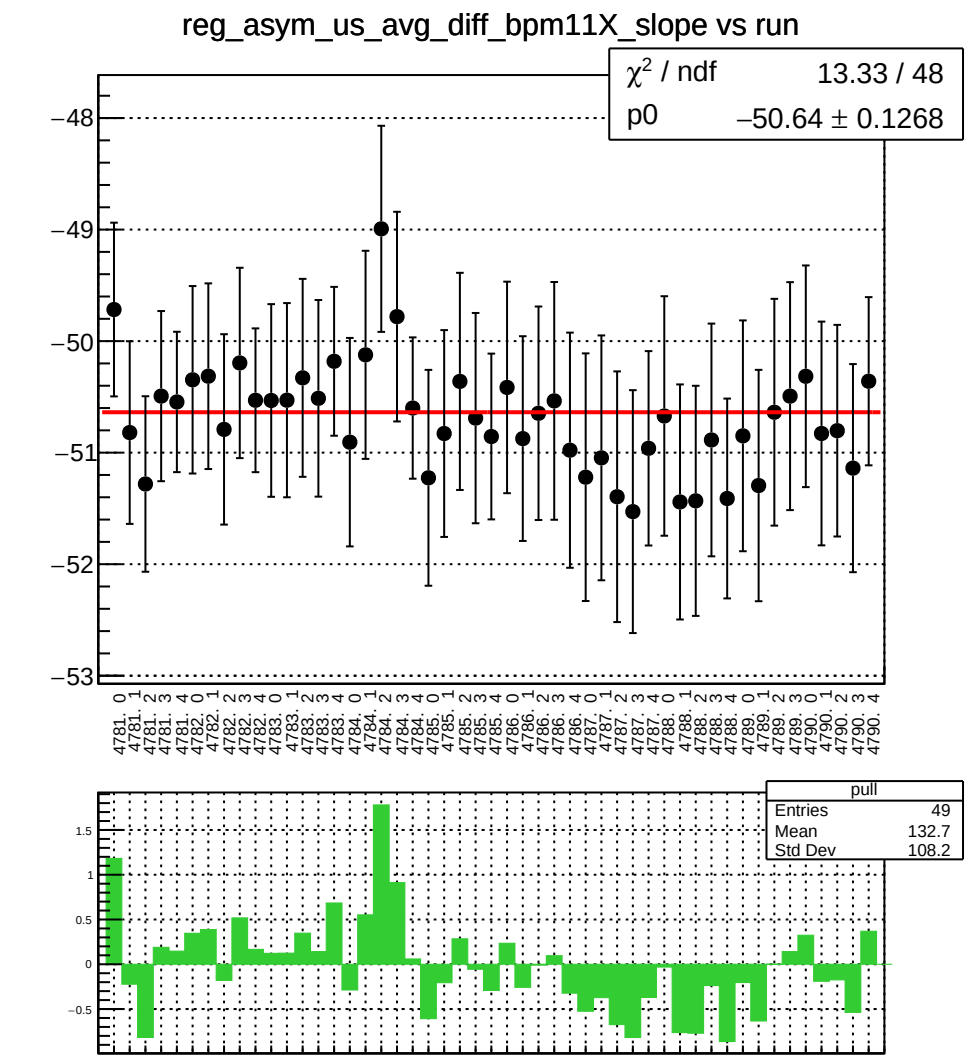

pull1D
Entries 49
Mean 0.01183
Std Dev 0.5584

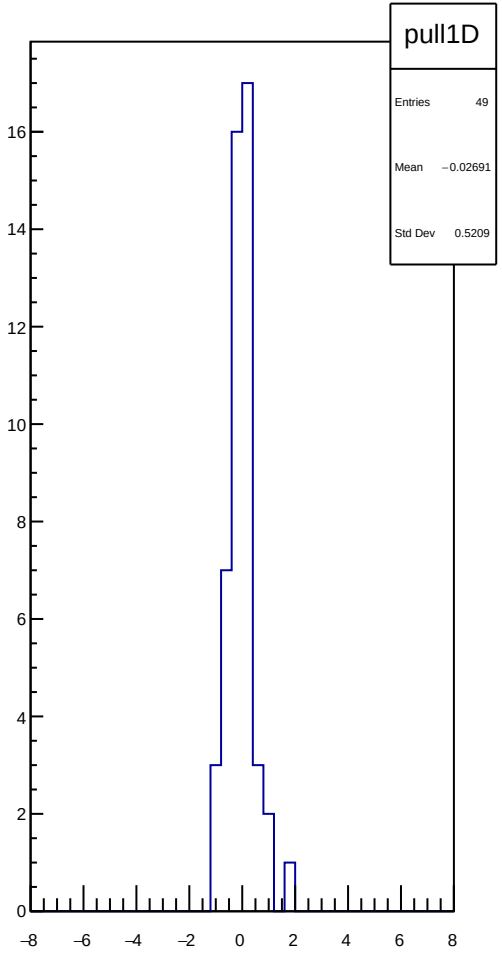

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.666 / 48
p0 −0.5364 ± 0.495
pull
Entries 49
Mean 203.4
Std Dev 178.1

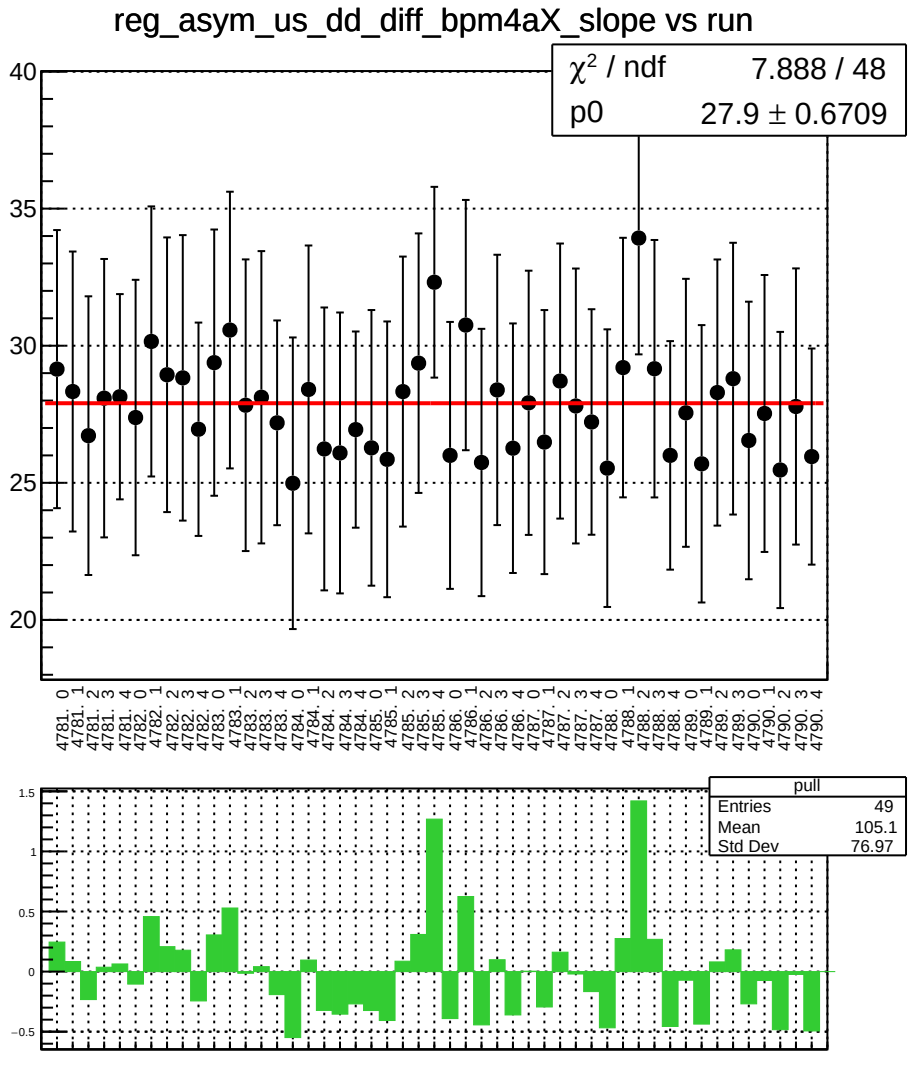

pull1D
Entries 49
Mean −0.01276
Std Dev 0.4203

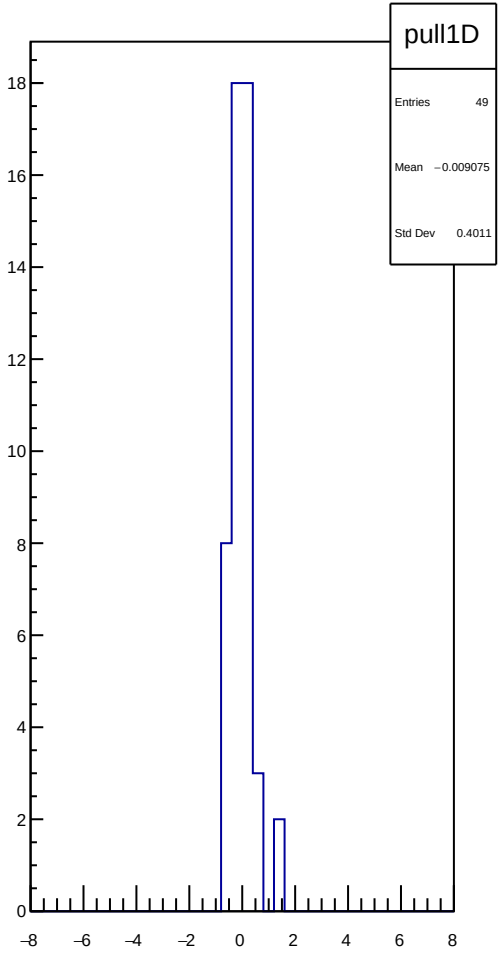

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 172.3 / 48
p0 −17.26 ± 0.08398
pull
Entries 49
Mean 118.2
Std Dev 95.95
pull1D
Entries 49
Mean −0.205
Std Dev 1.864

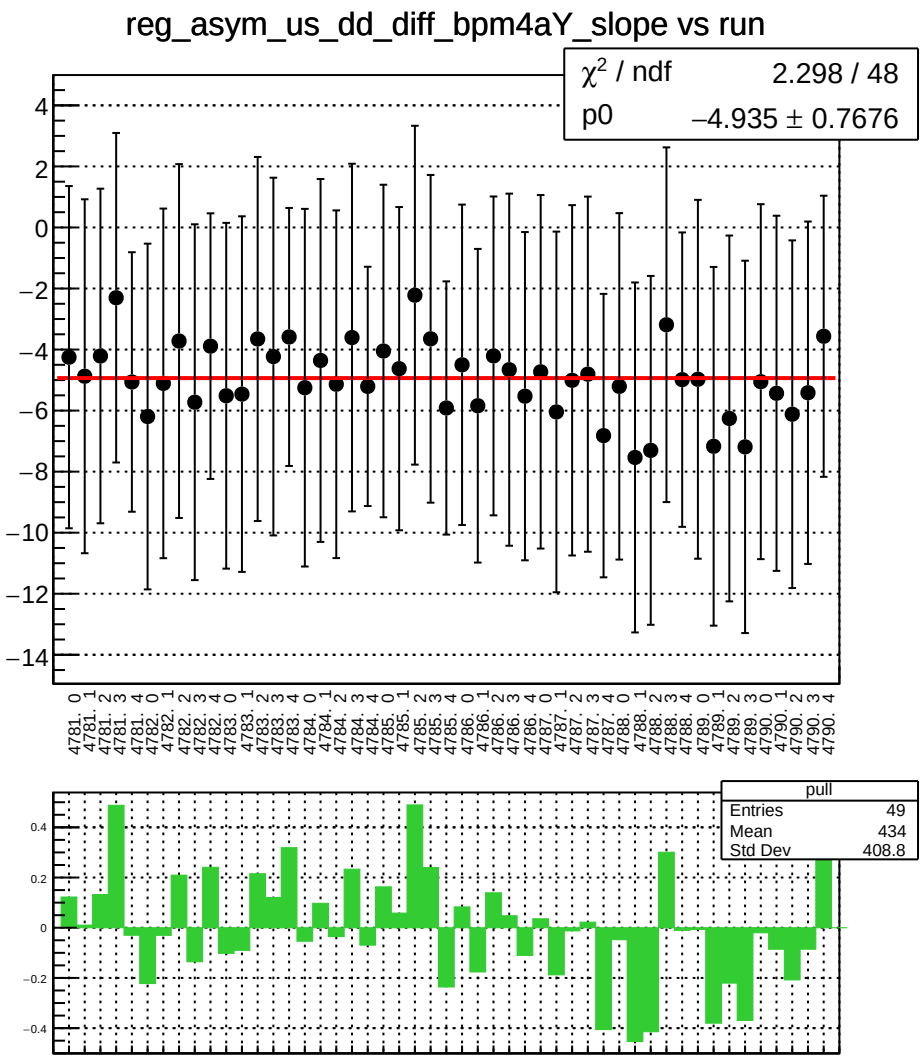

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.303 / 48
p0 1.827 ± 0.5968
pull
Entries 49
Mean 56.29
Std Dev 35.16
pull1D
Entries 49
Mean −0.0114
Std Dev 0.4356

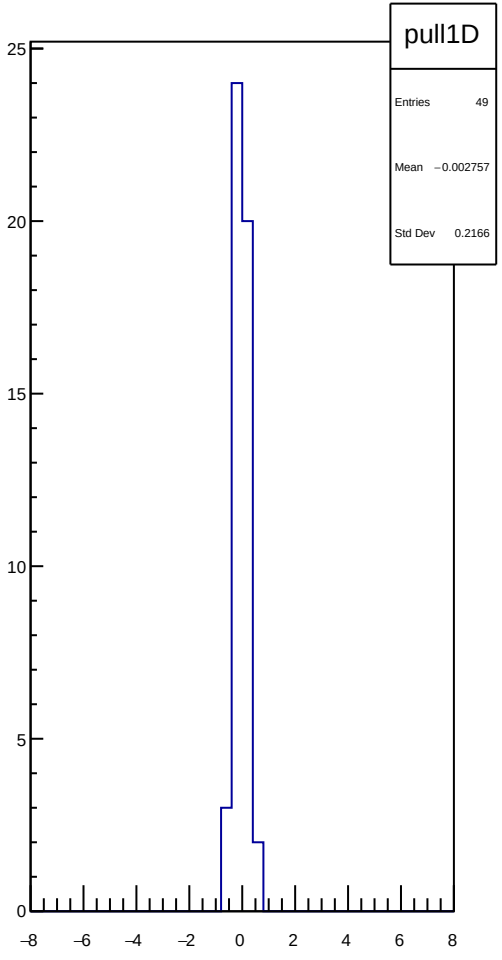

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 13.33 / 48
p0 −50.64 ± 0.1268
pull
Entries 49
Mean 132.7
Std Dev 108.2

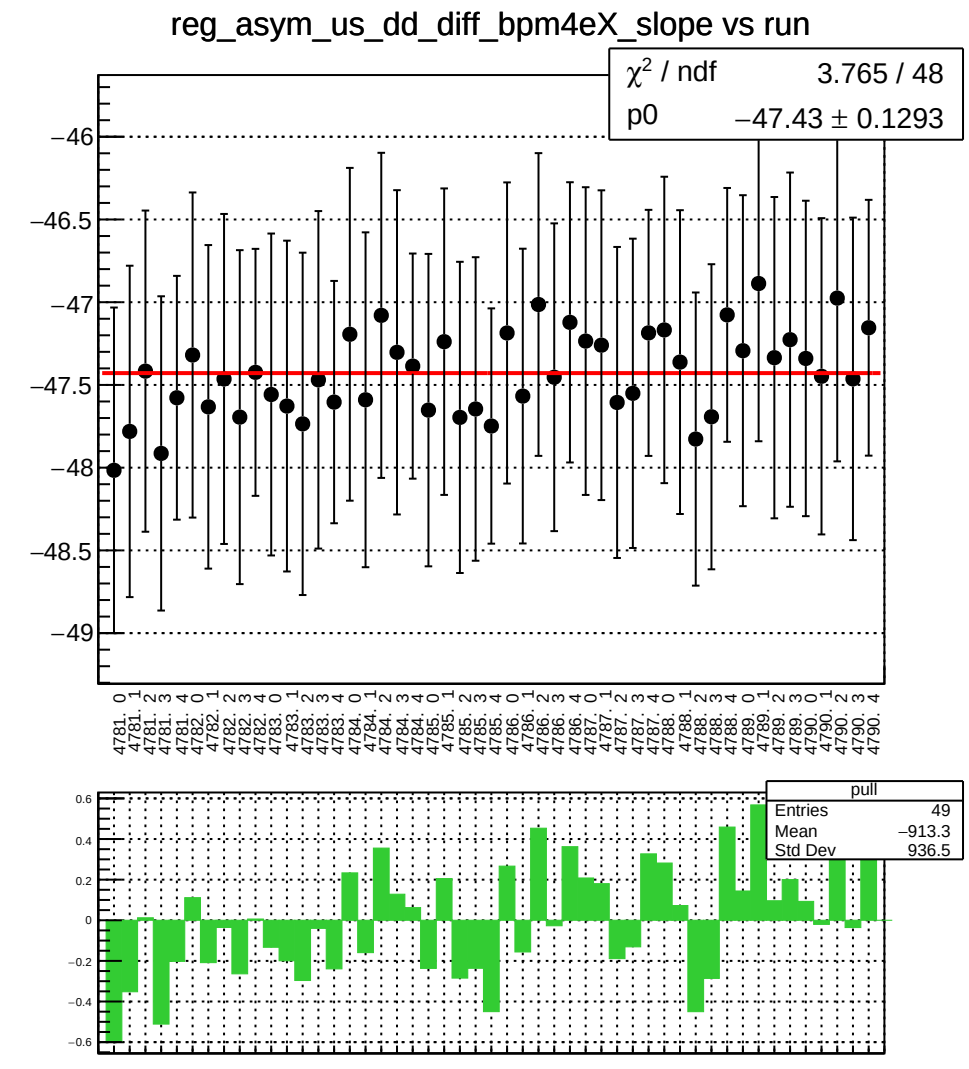

pull1D
Entries 49
Mean −0.02691
Std Dev 0.5209

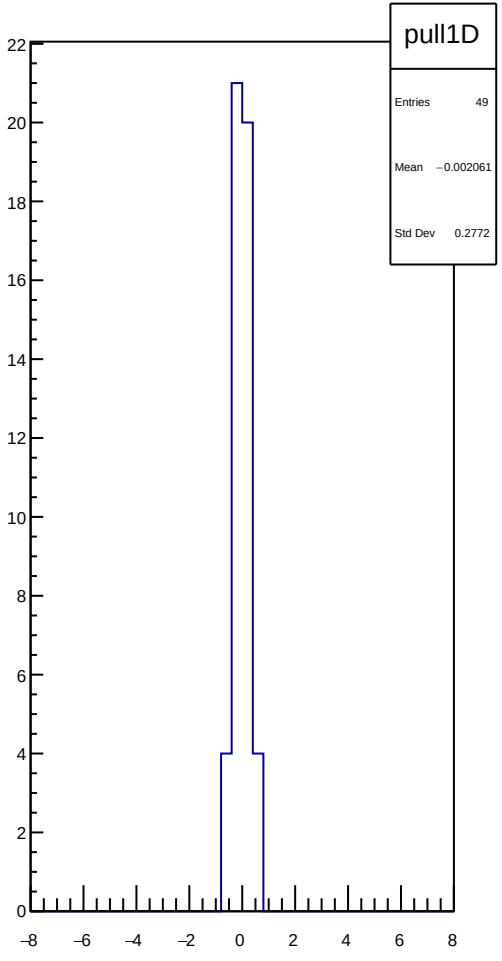

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 7.888 / 48
p0 27.9 ± 0.6709
pull
Entries 49
Mean 105.1
Std Dev 76.97

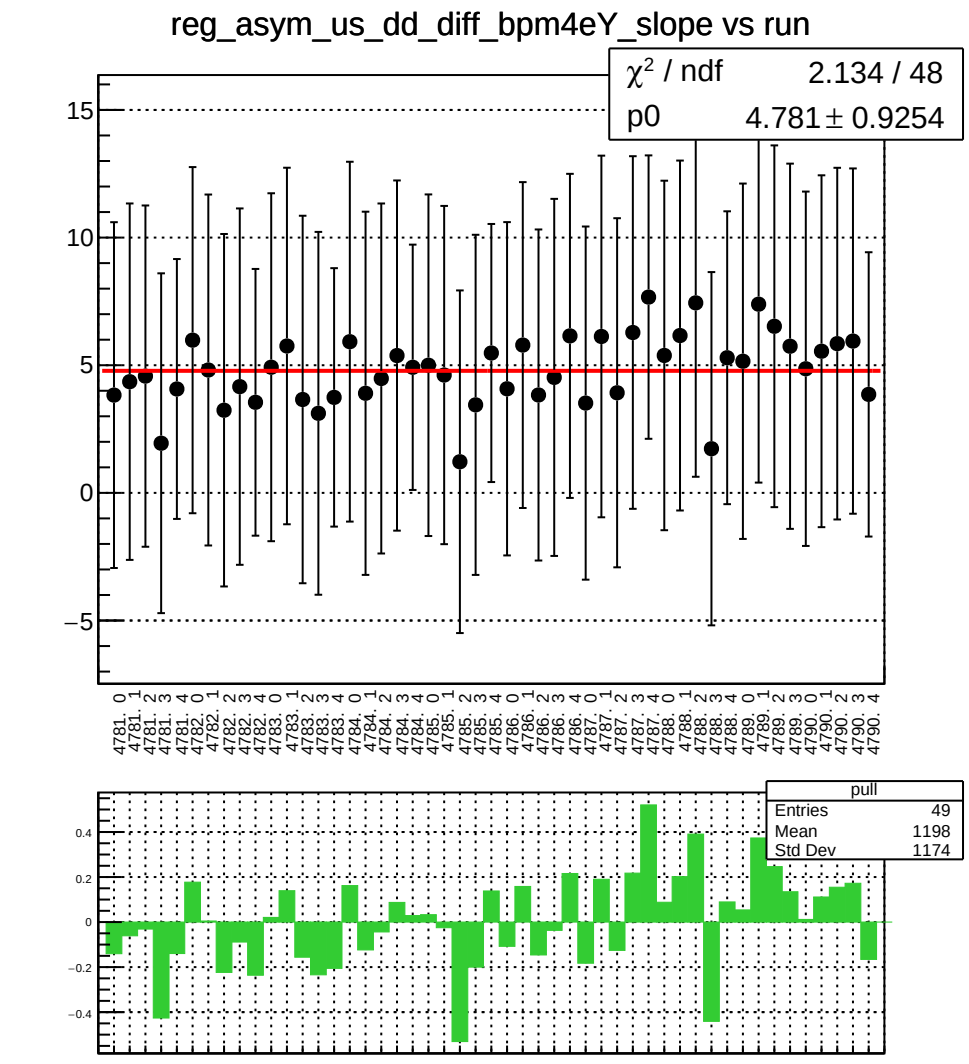

pull1D
Entries 49
Mean −0.009075
Std Dev 0.4011

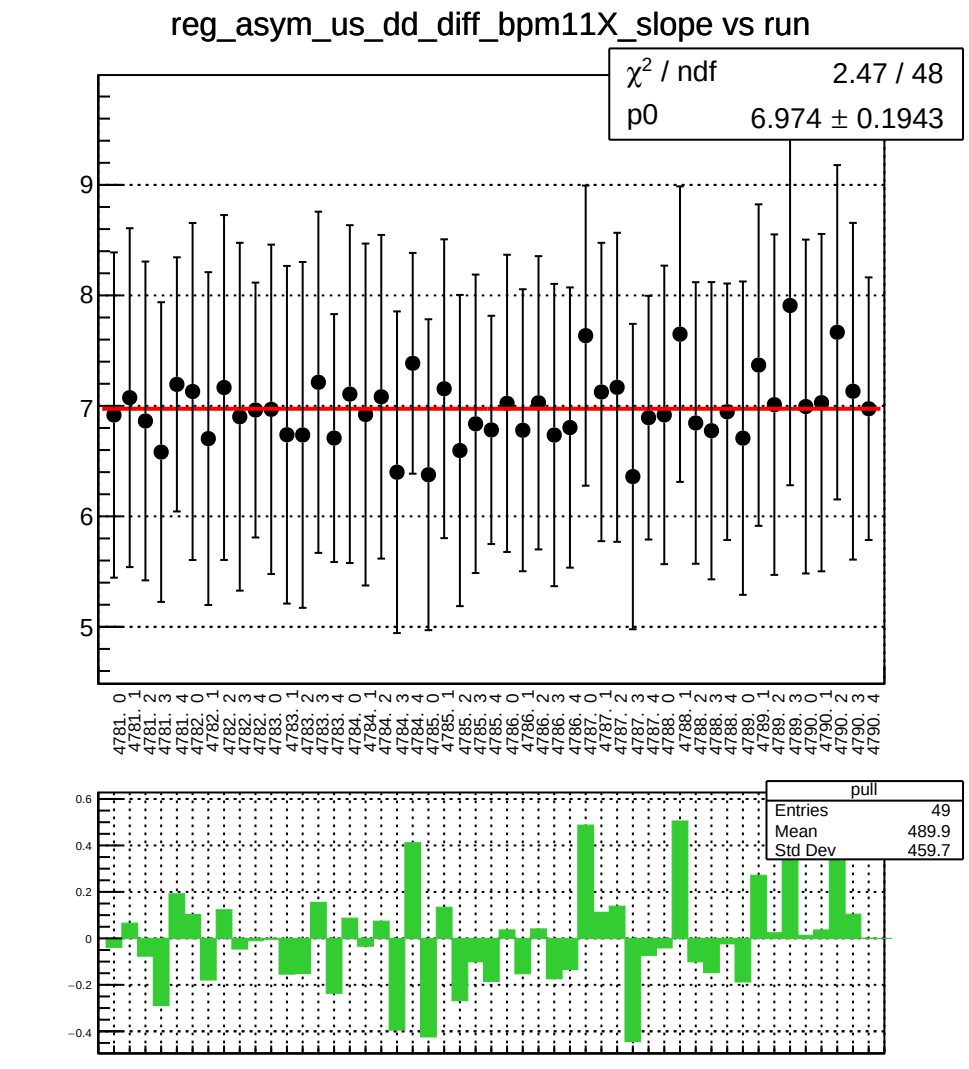

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.298 / 48
p0 −4.935 ± 0.7676
pull
Entries 49
Mean 434
Std Dev 408.8

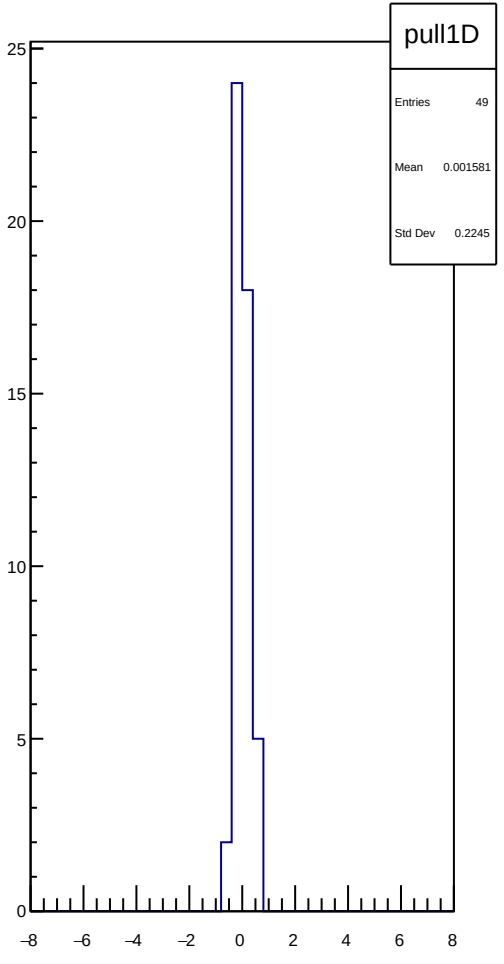

pull1D
Entries 49
Mean −0.002757
Std Dev 0.2166

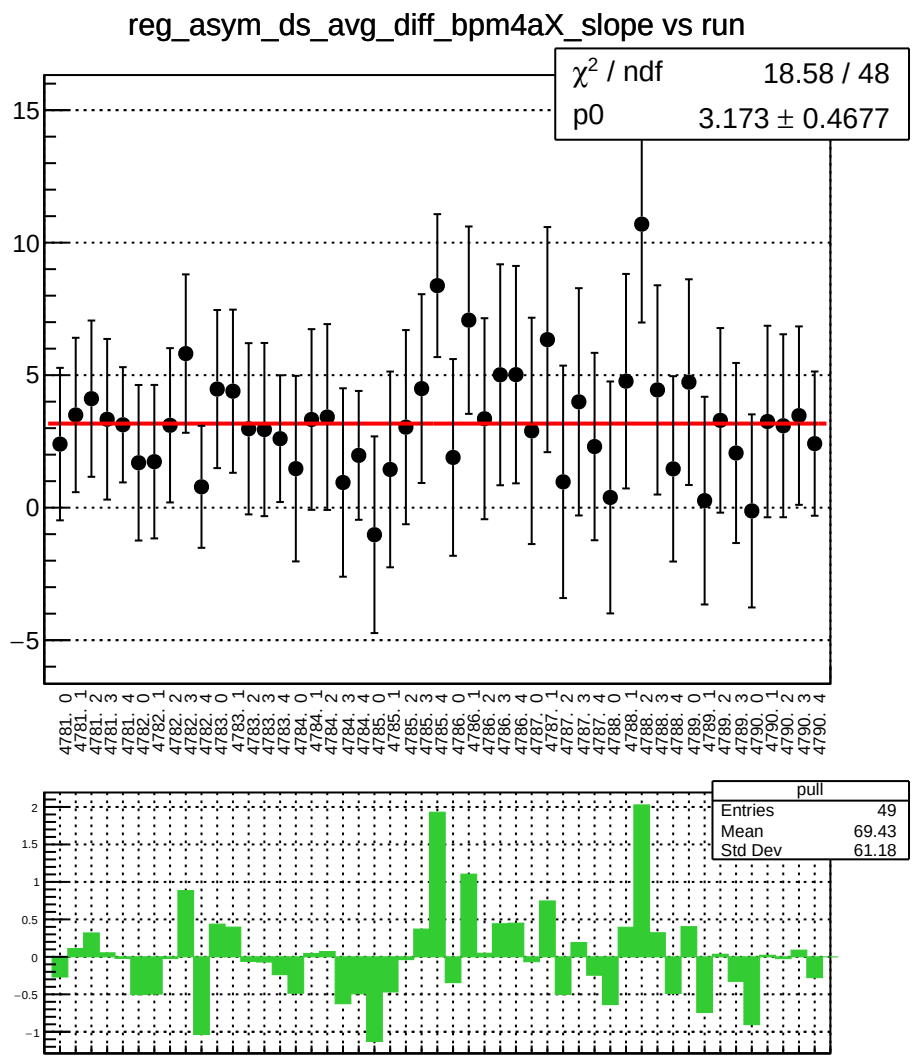

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.765 / 48
p0 −47.43 ± 0.1293
pull
Entries 49
Mean −913.3
Std Dev 936.5

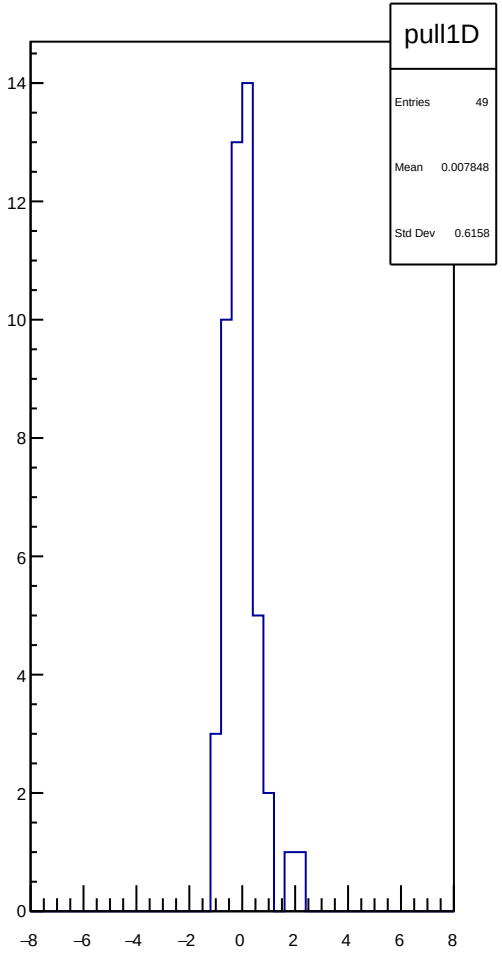

pull1D
Entries 49
Mean −0.002061
Std Dev 0.2772

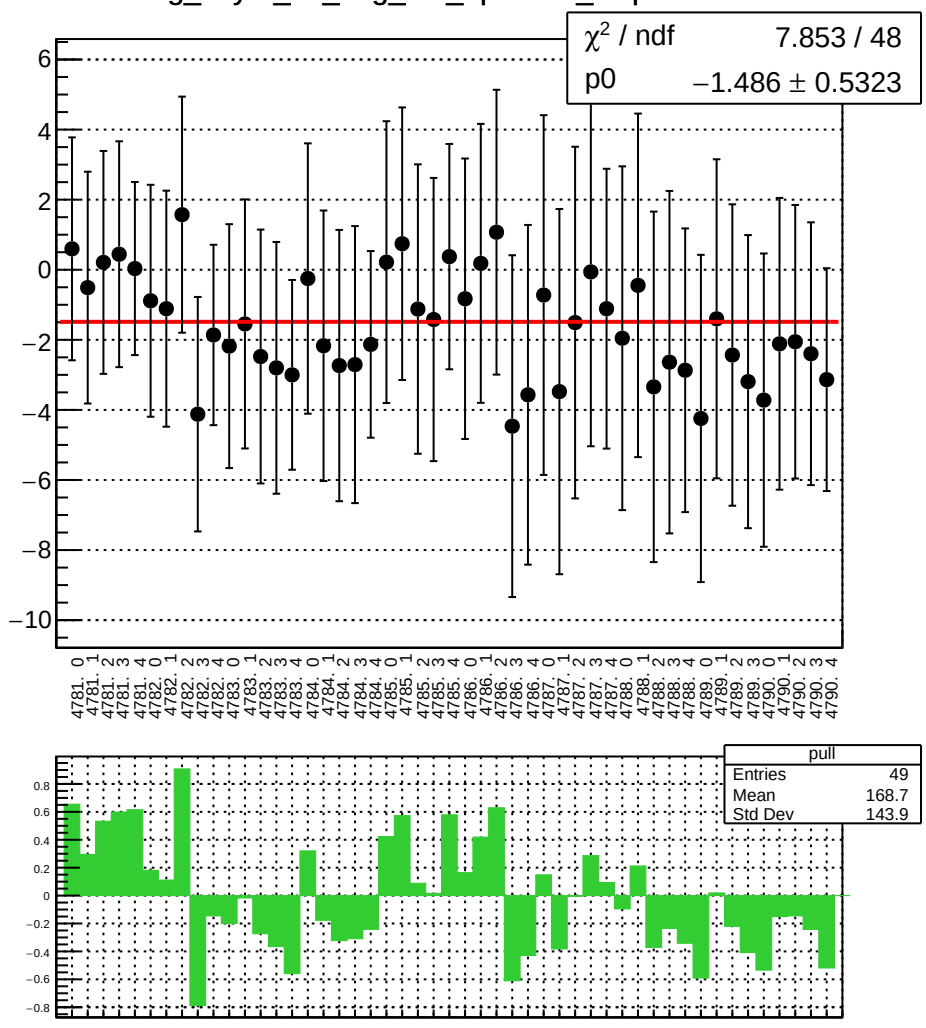

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.134 / 48
p0 4.781 ± 0.9254
15
10
5
0
−5
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 1198
Std Dev 1174
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 49
Mean 0.001011
Std Dev 0.2087
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

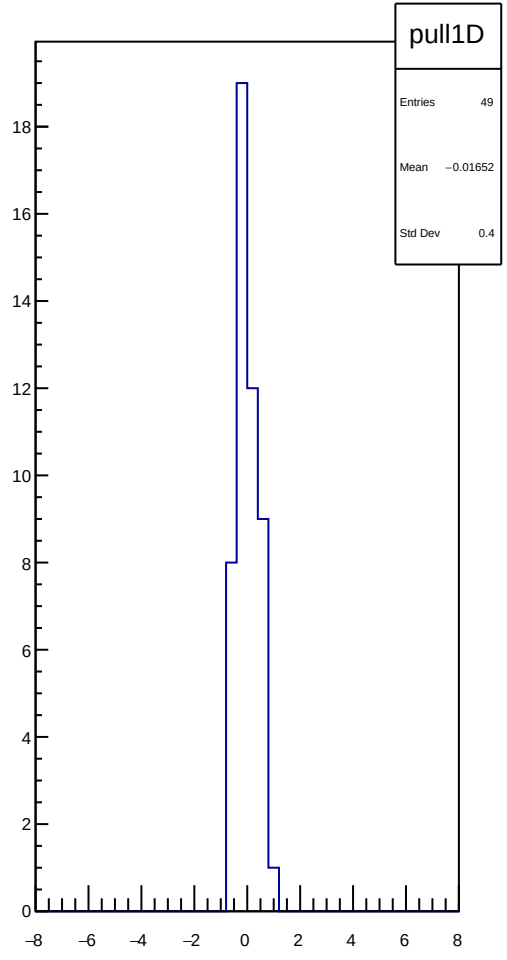

reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 2.47 / 48
p0 6.974 ± 0.1943
pull
Entries 49
Mean 489.9
Std Dev 459.7

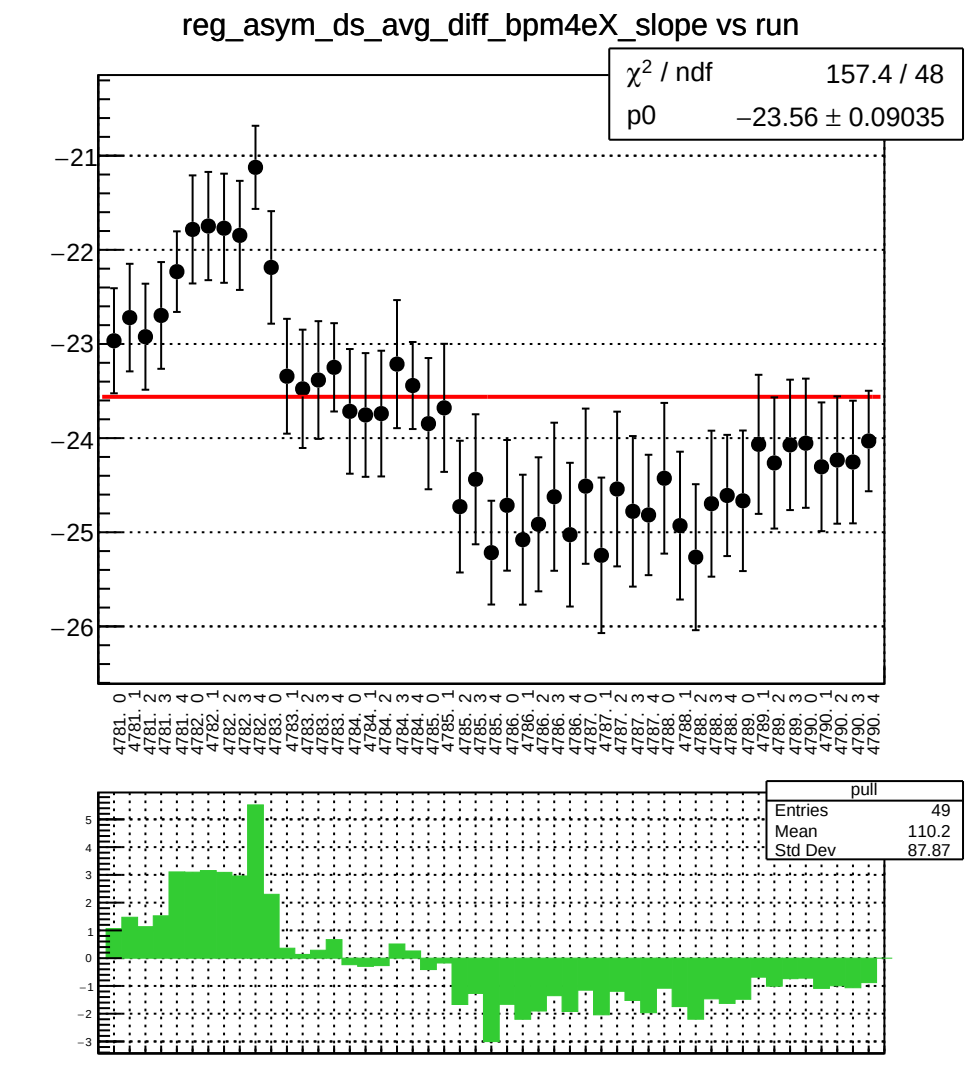

pull1D
Entries 49
Mean 0.001581
Std Dev 0.2245

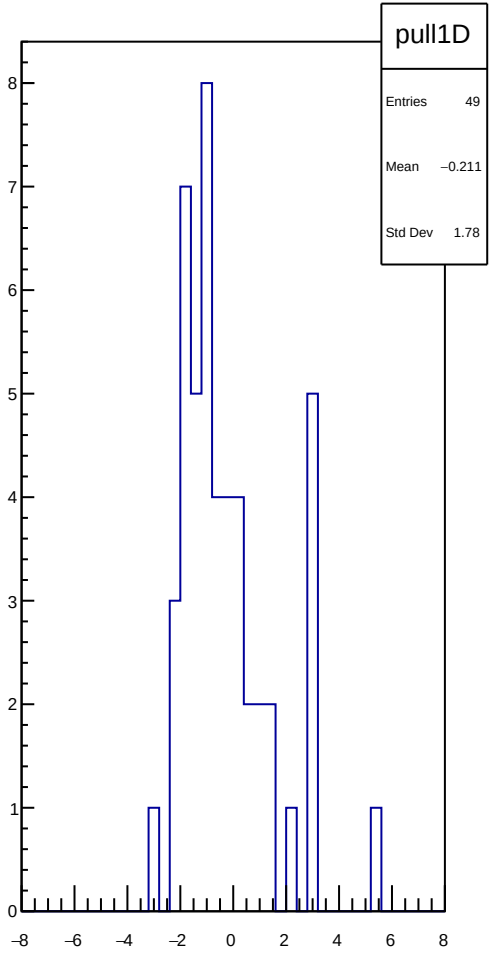

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 18.58 / 48
p0 3.173 ± 0.4677
pull
Entries 49
Mean 69.43
Std Dev 61.18

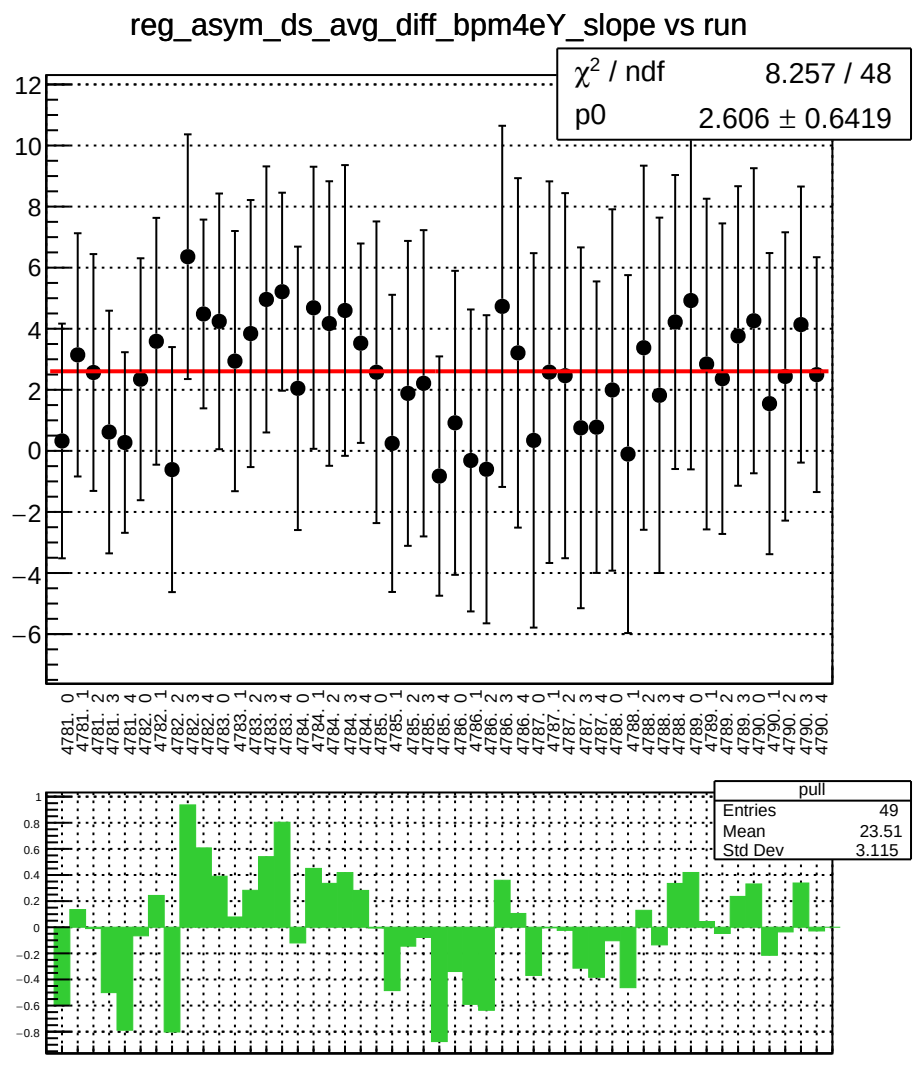

pull1D
Entries 49
Mean 0.007848
Std Dev 0.6158

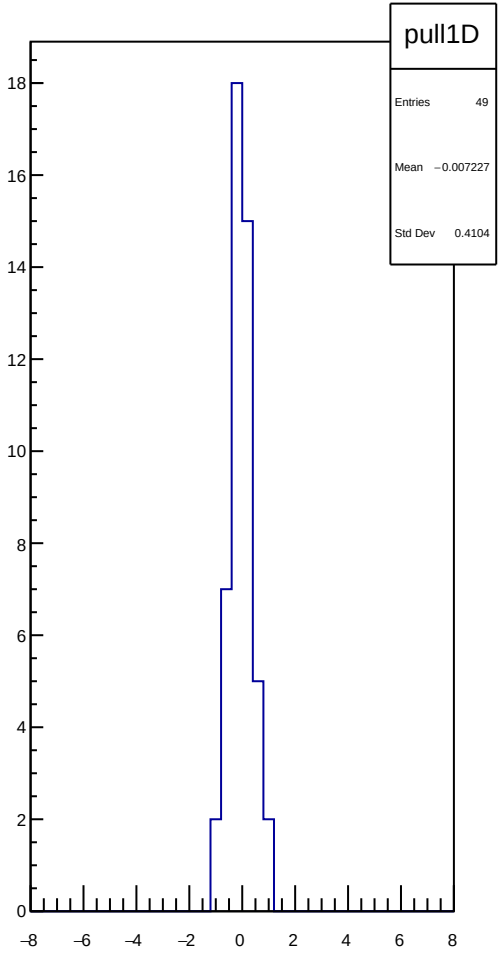

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.853 / 48
p0 −1.486 ± 0.5323
pull
Entries 49
Mean 168.7
Std Dev 143.9

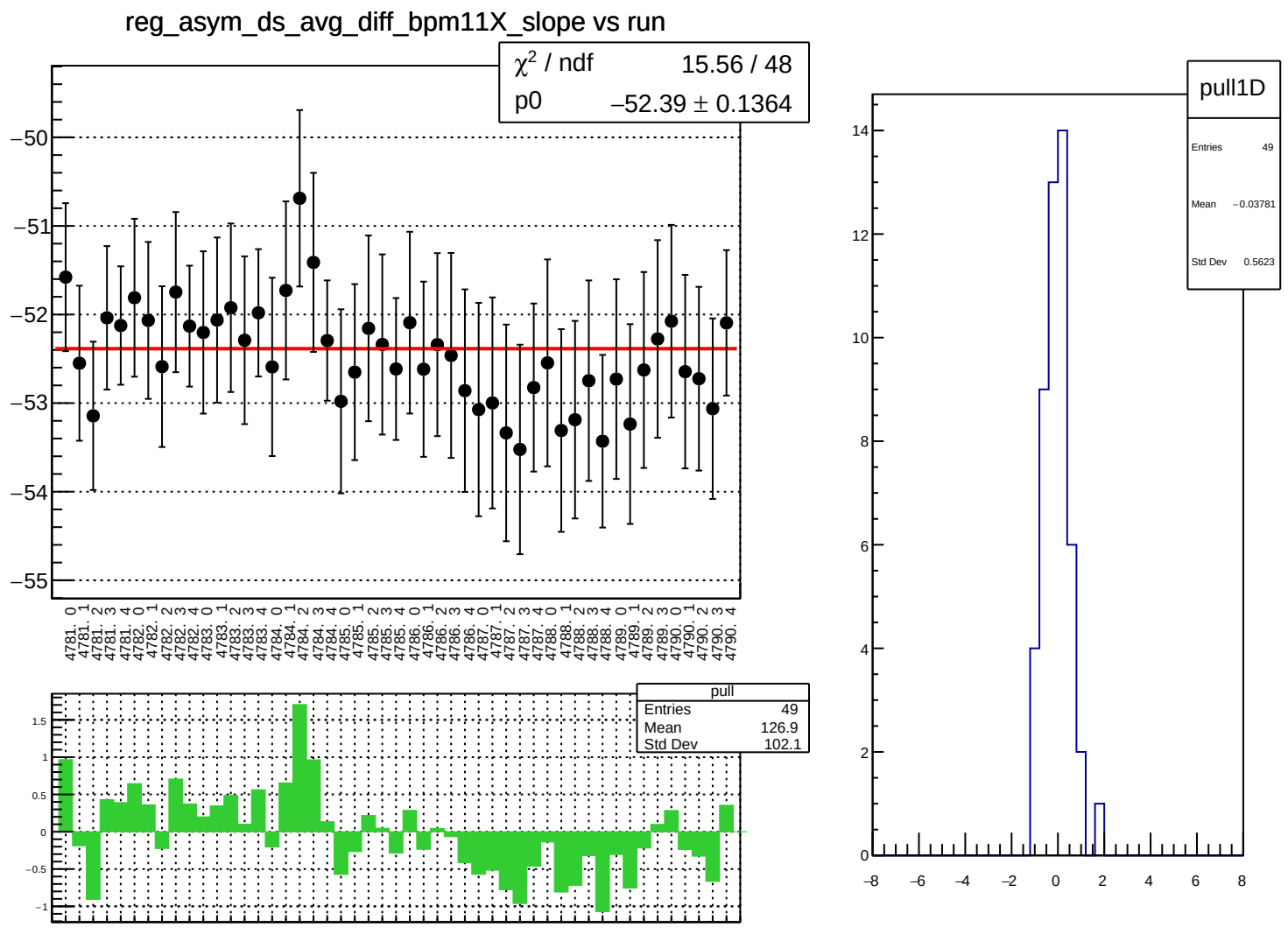

pull1D
Entries 49
Mean −0.01652
Std Dev 0.4

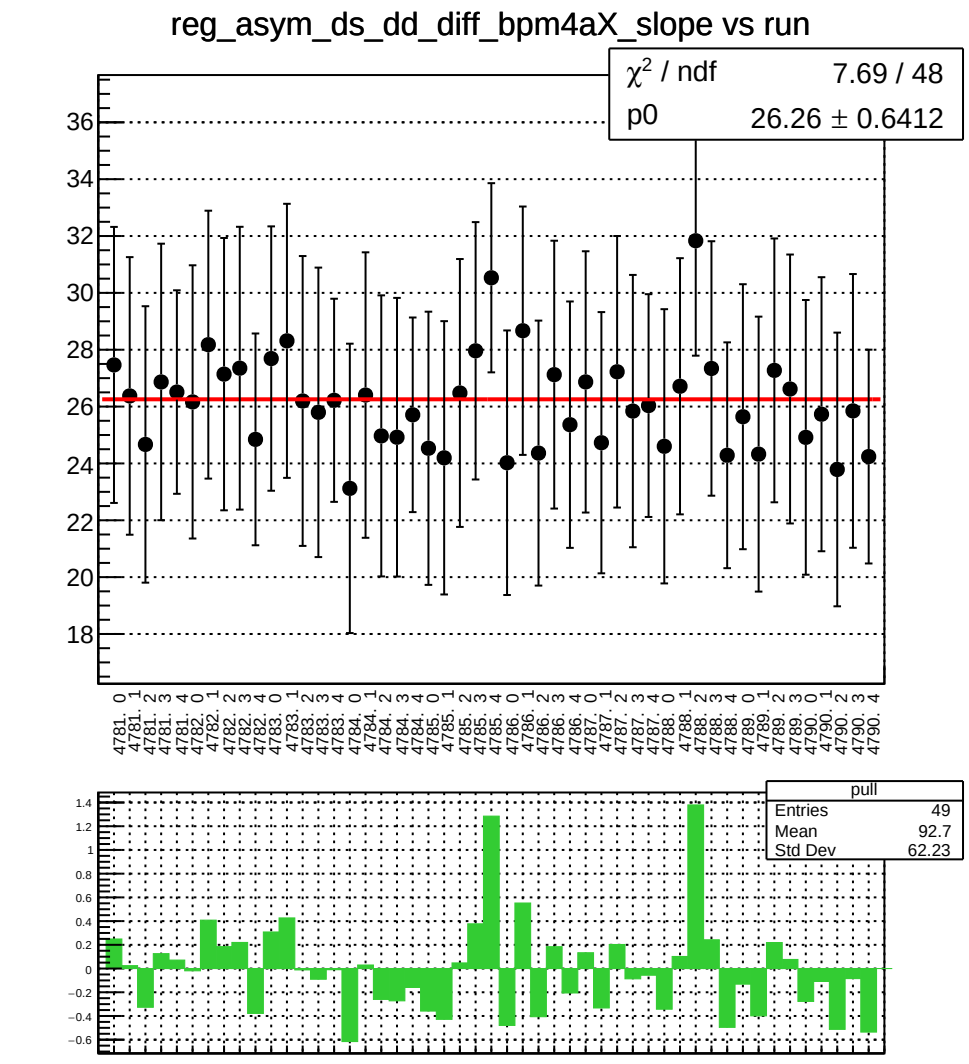

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 157.4 / 48
p0 −23.56 ± 0.09035
pull
Entries 49
Mean 110.2
Std Dev 87.87

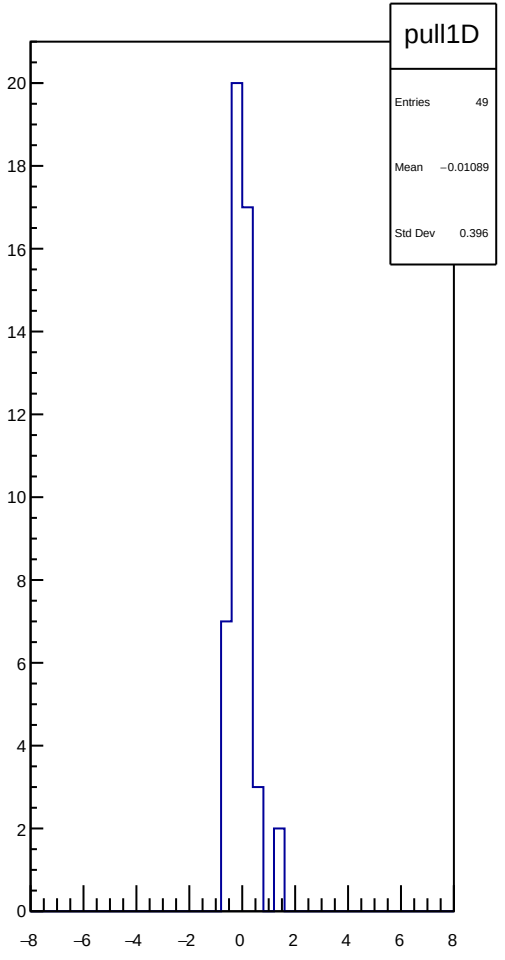

pull1D
Entries 49
Mean −0.211
Std Dev 1.78

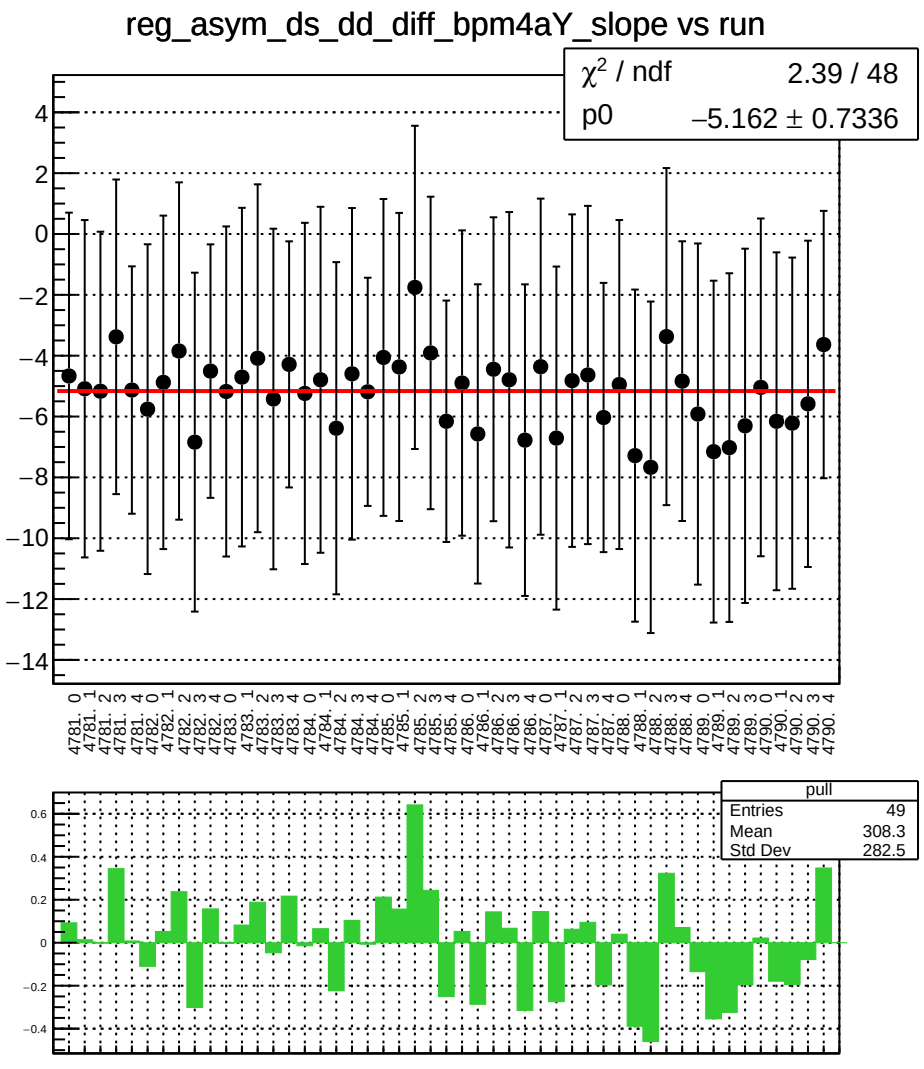

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.257 / 48
p0 2.606 ± 0.6419
pull
Entries 49
Mean 23.51
Std Dev 3.115

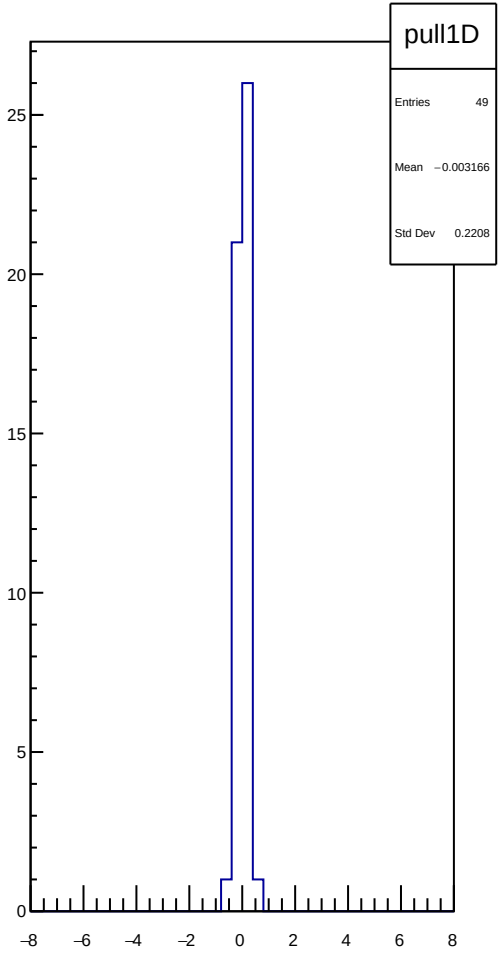

pull1D
Entries 49
Mean −0.007227
Std Dev 0.4104

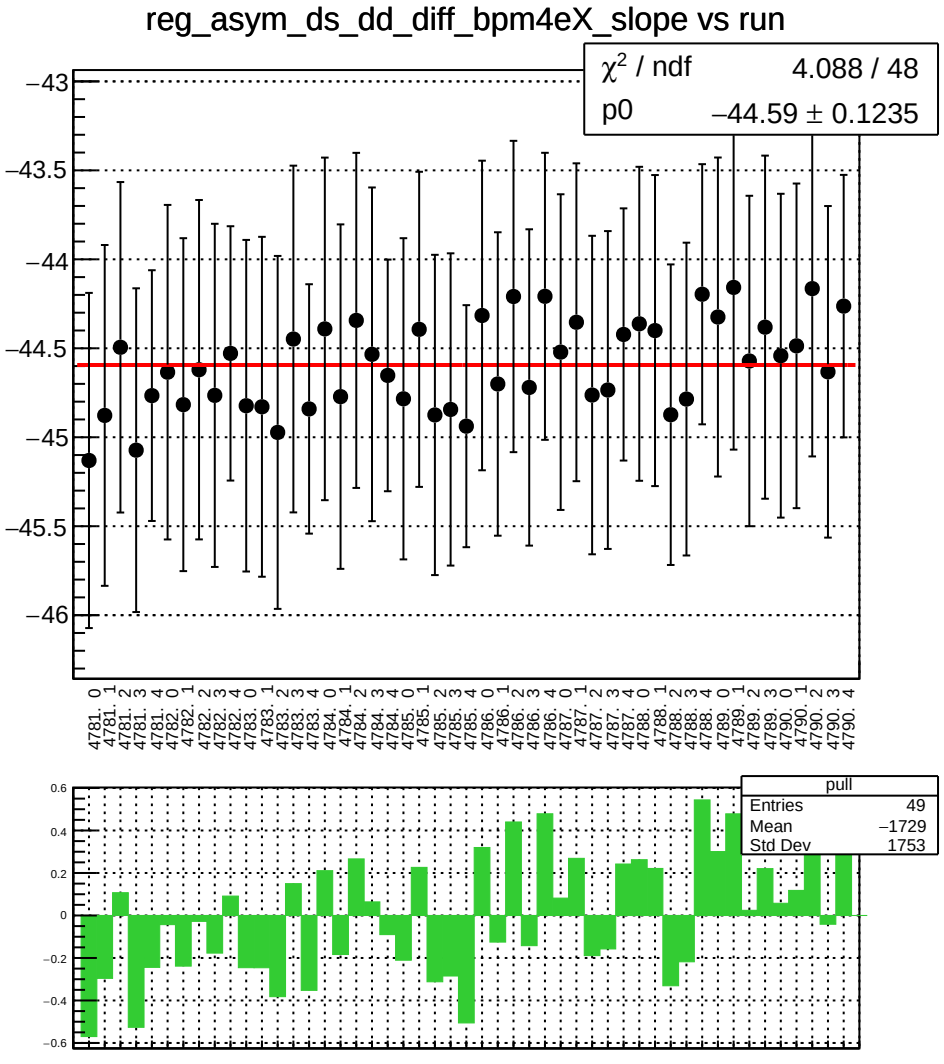

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 15.56 / 48
p0 −52.39 ± 0.1364
pull
Entries 49
Mean 126.9
Std Dev 102.1
pull1D
Entries 49
Mean −0.03781
Std Dev 0.5623

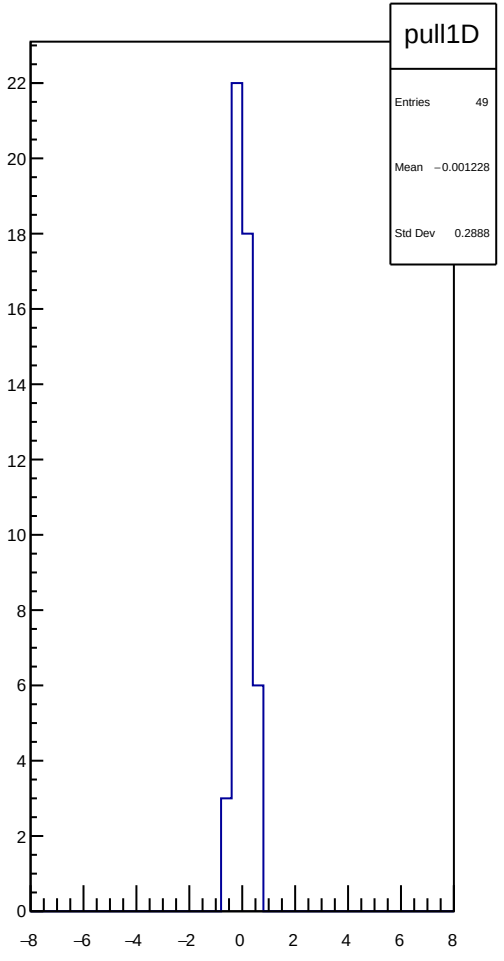

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 7.69 / 48
p0 26.26 ± 0.6412
pull
Entries 49
Mean 92.7
Std Dev 62.23

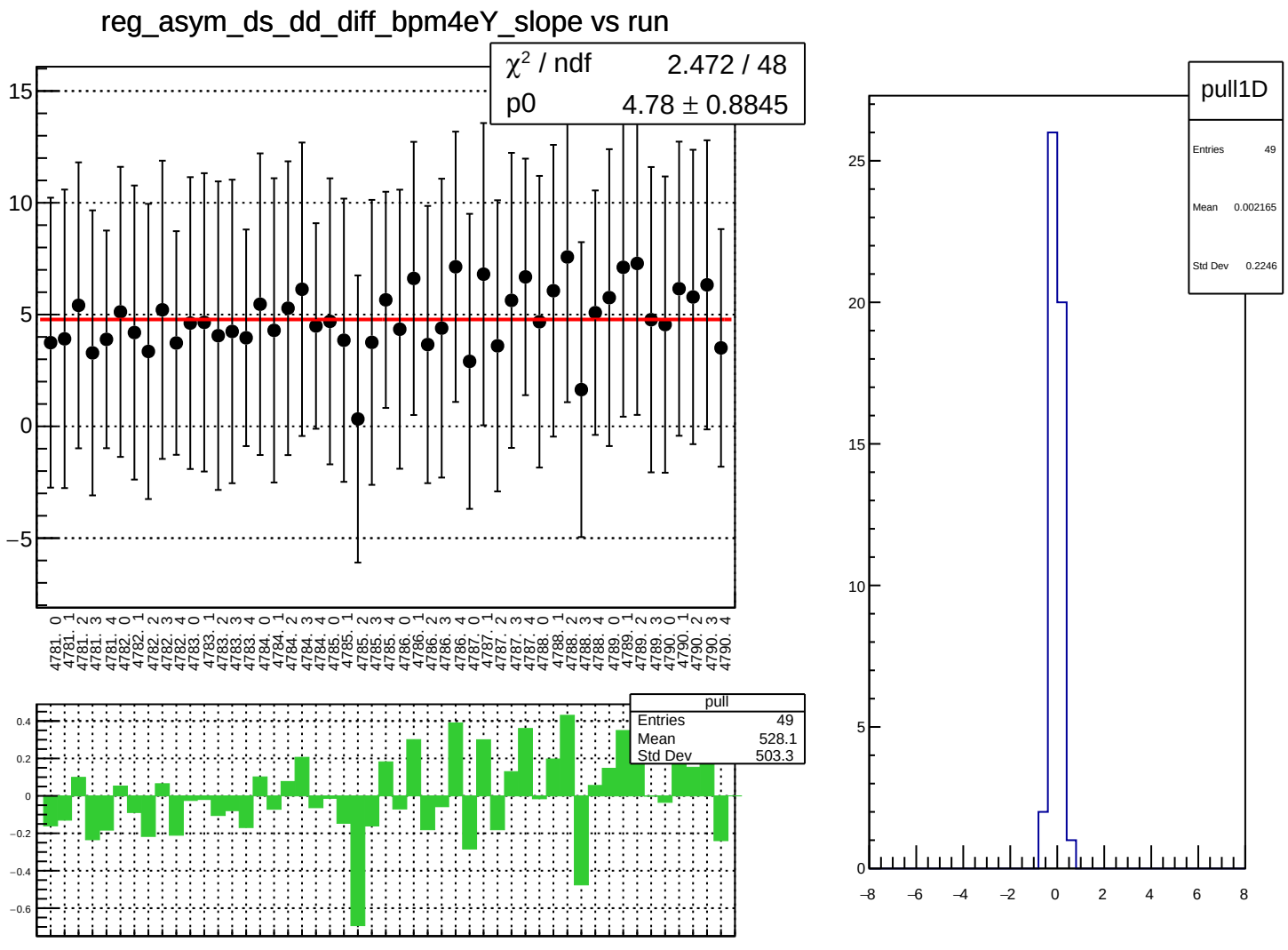

pull1D
Entries 49
Mean −0.01089
Std Dev 0.396

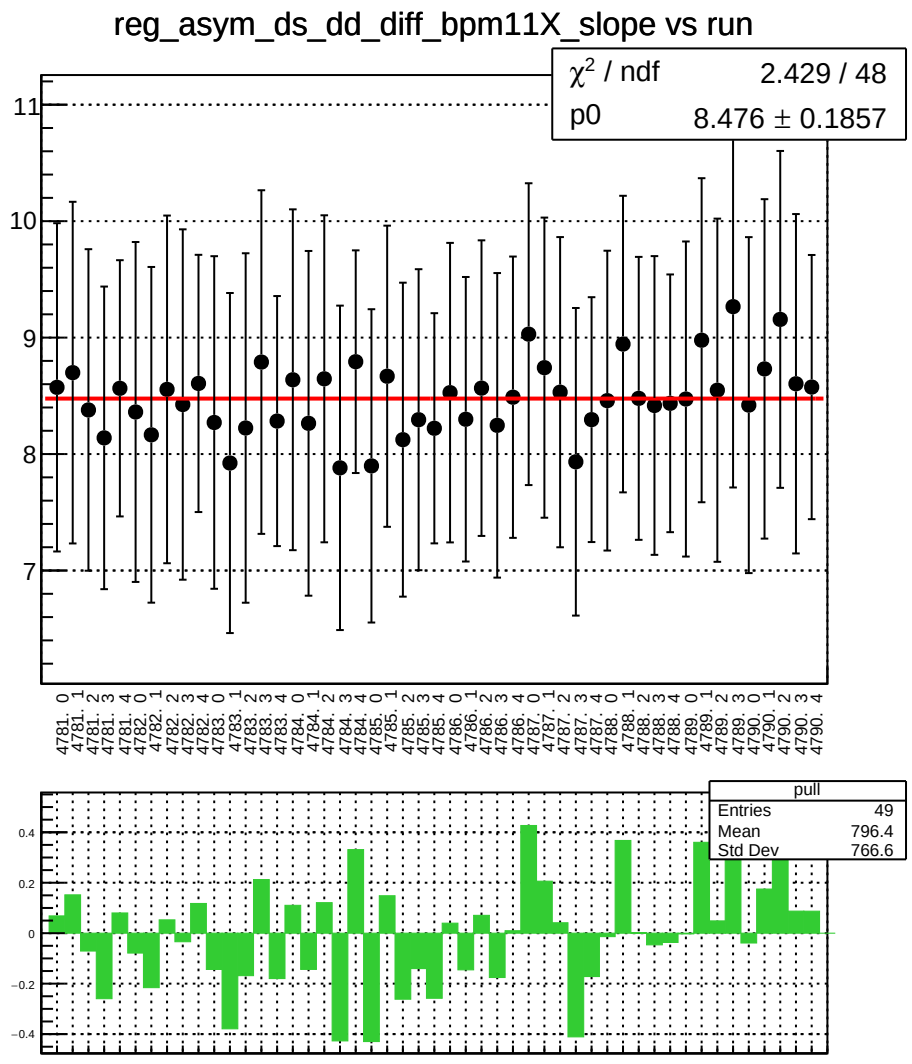

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.39 / 48
p0 −5.162 ± 0.7336
pull
Entries 49
Mean 308.3
Std Dev 282.5

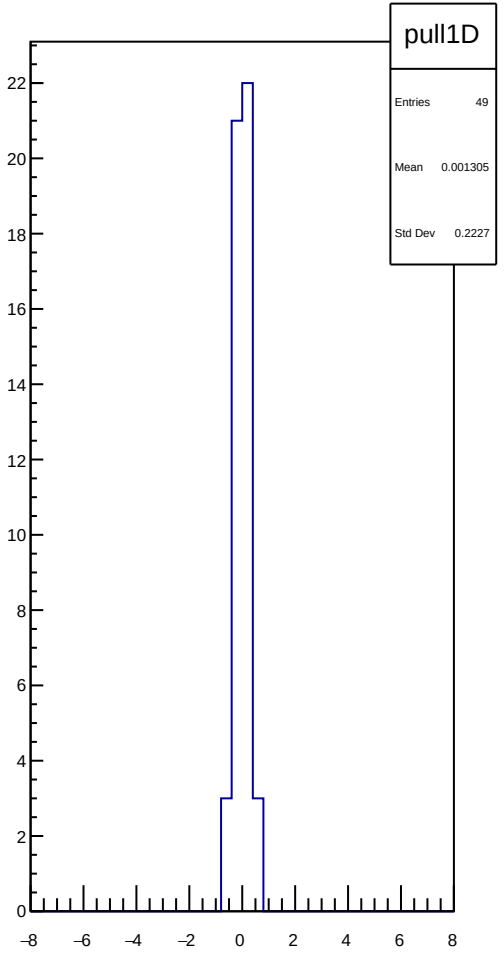

pull1D
Entries 49
Mean −0.003166
Std Dev 0.2208

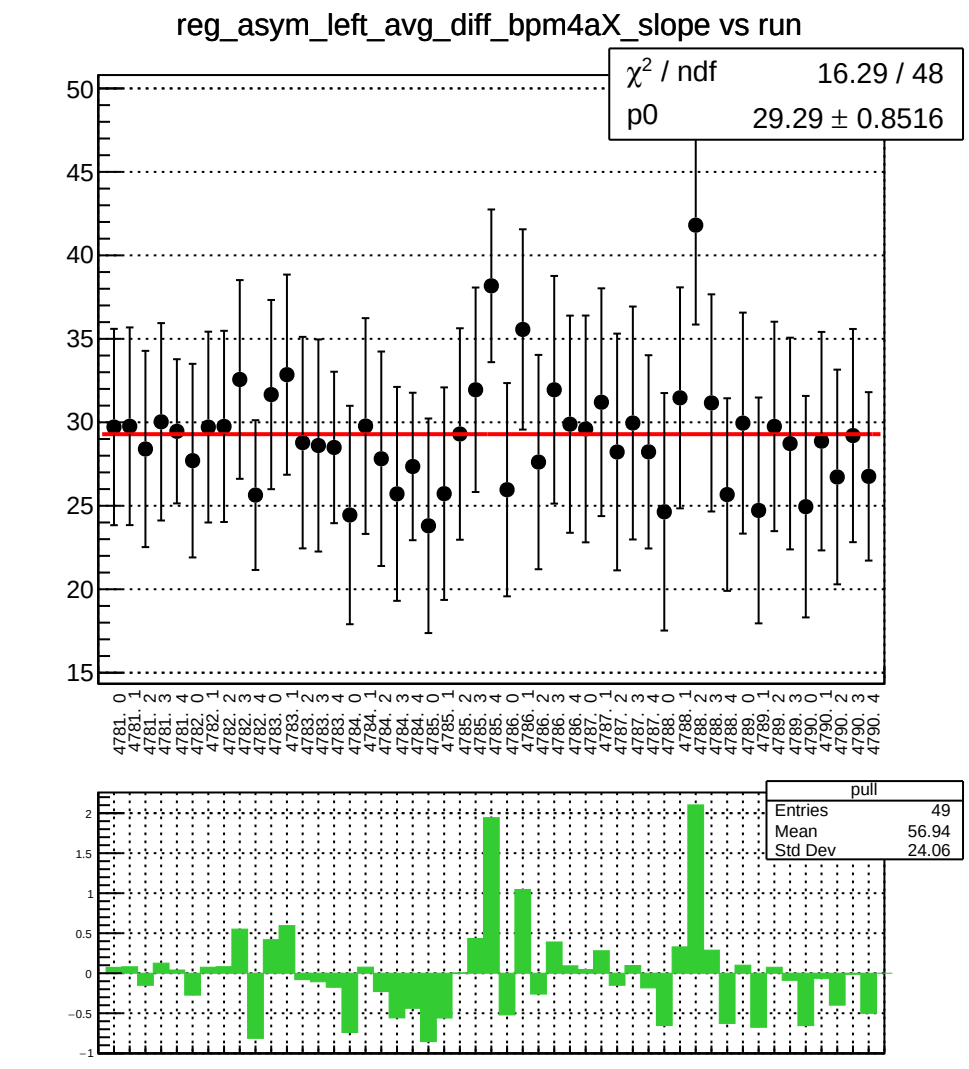

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.088 / 48
p0 −44.59 ± 0.1235
pull
Entries 49
Mean −1729
Std Dev 1753

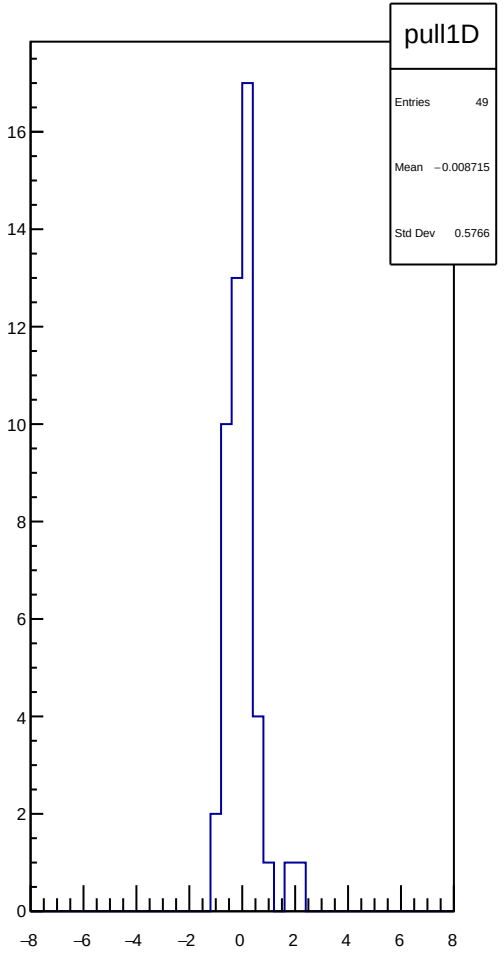

pull1D
Entries 49
Mean −0.001228
Std Dev 0.2888

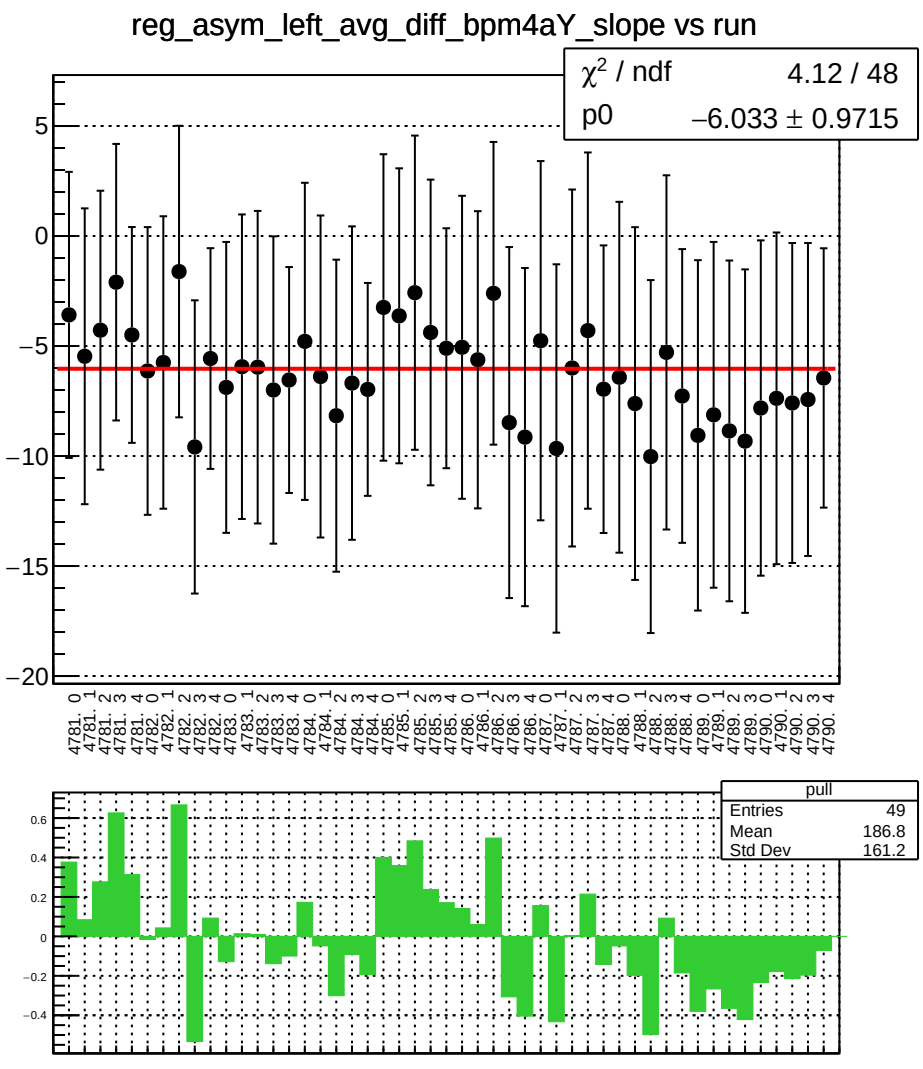

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.472 / 48
p0 4.78 ± 0.8845
15
10
5
0
−5
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 528.1
Std Dev 503.3
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 49
Mean 0.002165
Std Dev 0.2246
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

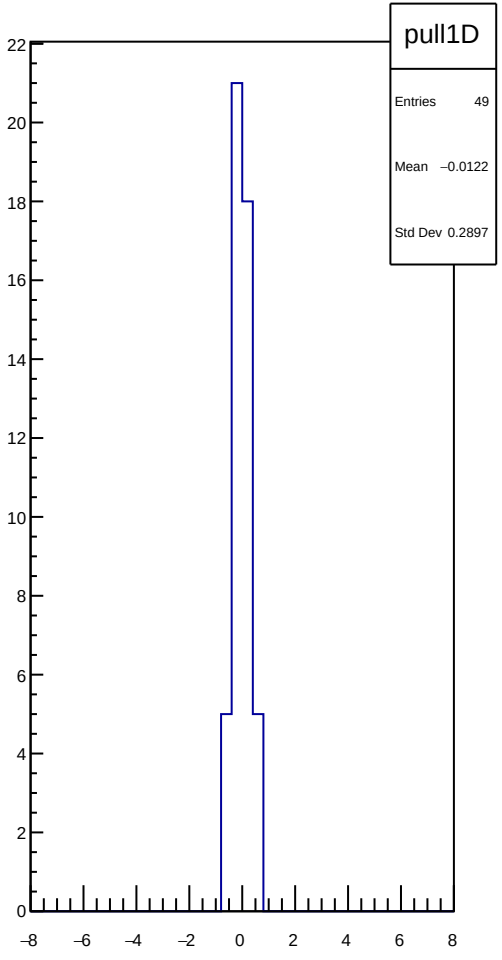

reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 2.429 / 48
p0 8.476 ± 0.1857
pull
Entries 49
Mean 796.4
Std Dev 766.6

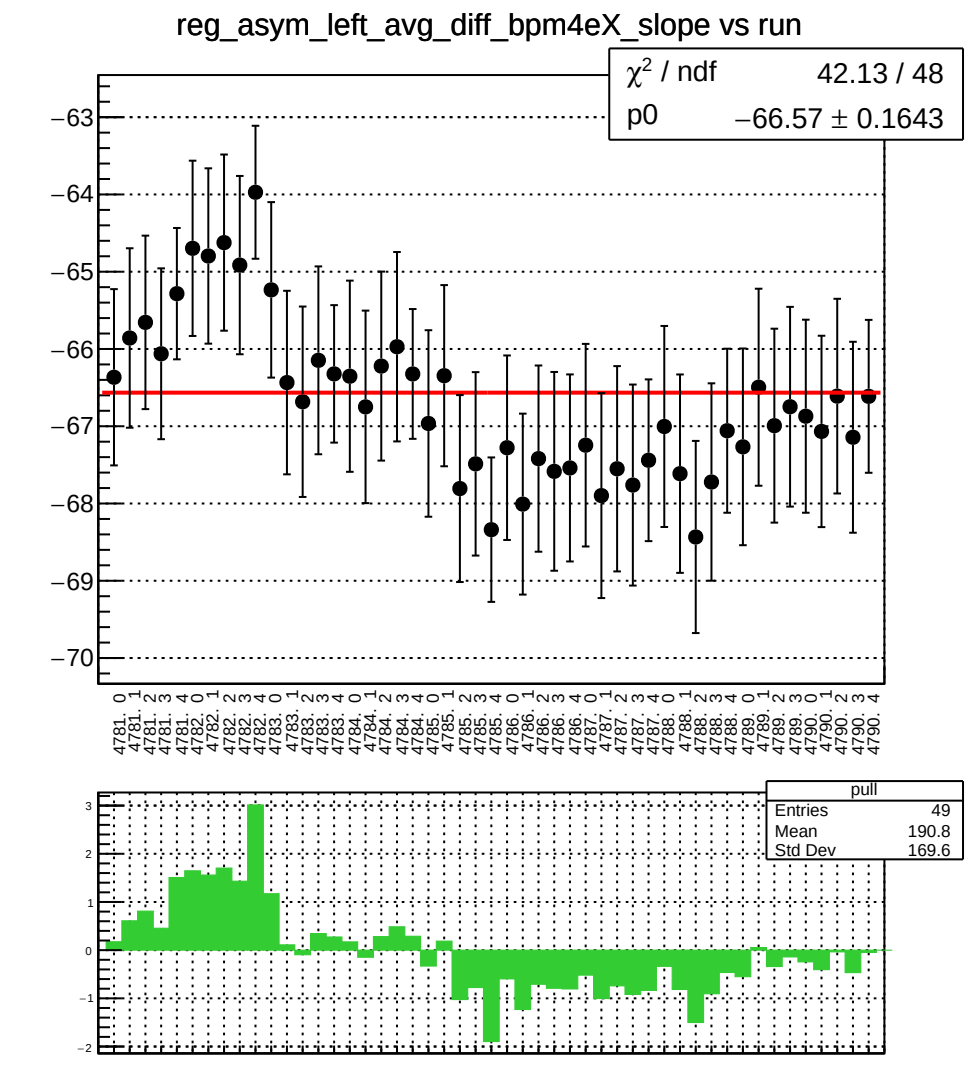

pull1D
Entries 49
Mean 0.001305
Std Dev 0.2227

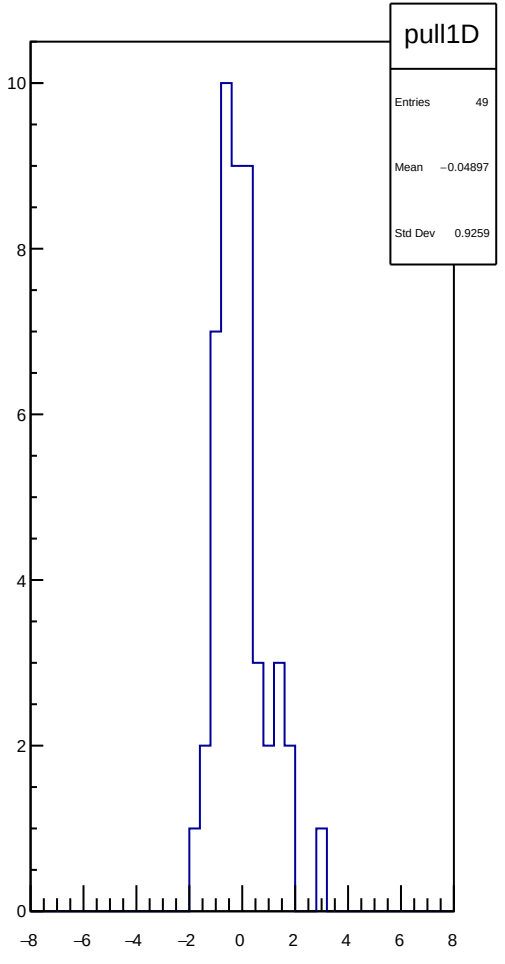

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 16.29 / 48
p0 29.29 ± 0.8516
pull
Entries 49
Mean 56.94
Std Dev 24.06

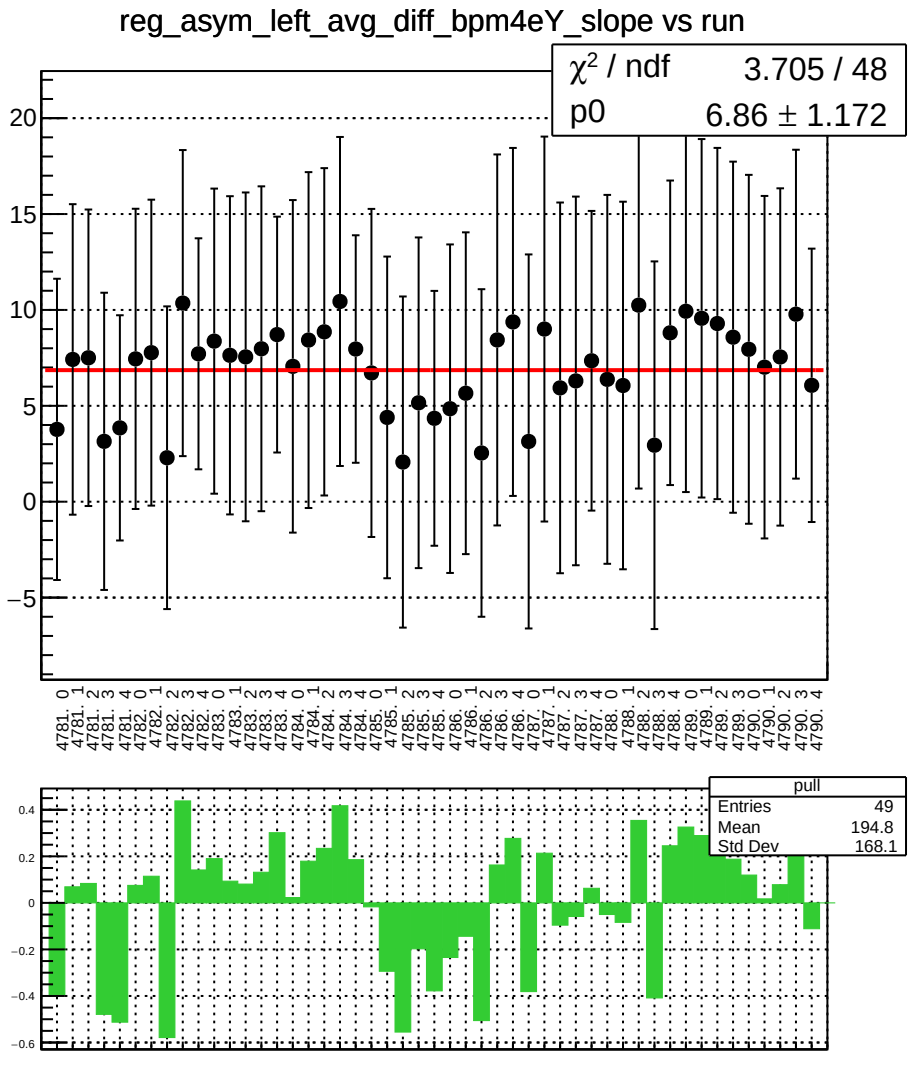

pull1D
Entries 49
Mean −0.008715
Std Dev 0.5766

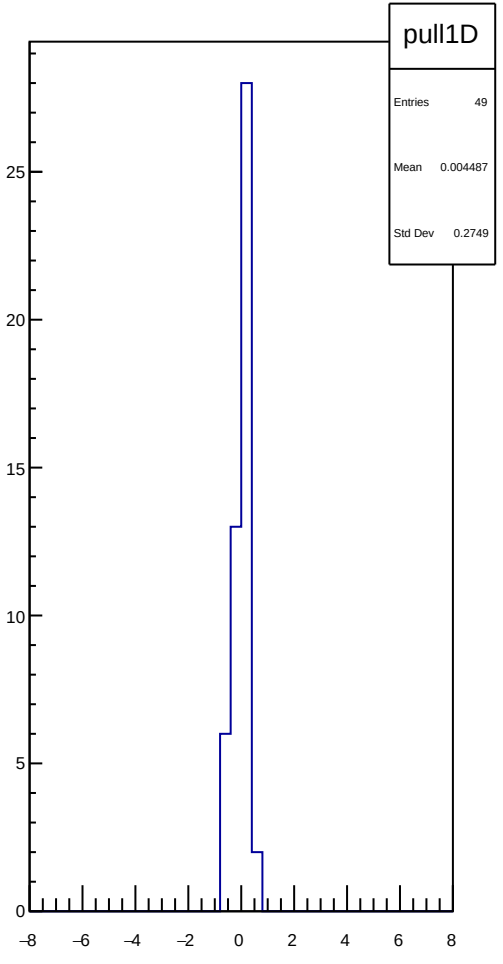

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.12 / 48
p0 −6.033 ± 0.9715
pull
Entries 49
Mean 186.8
Std Dev 161.2

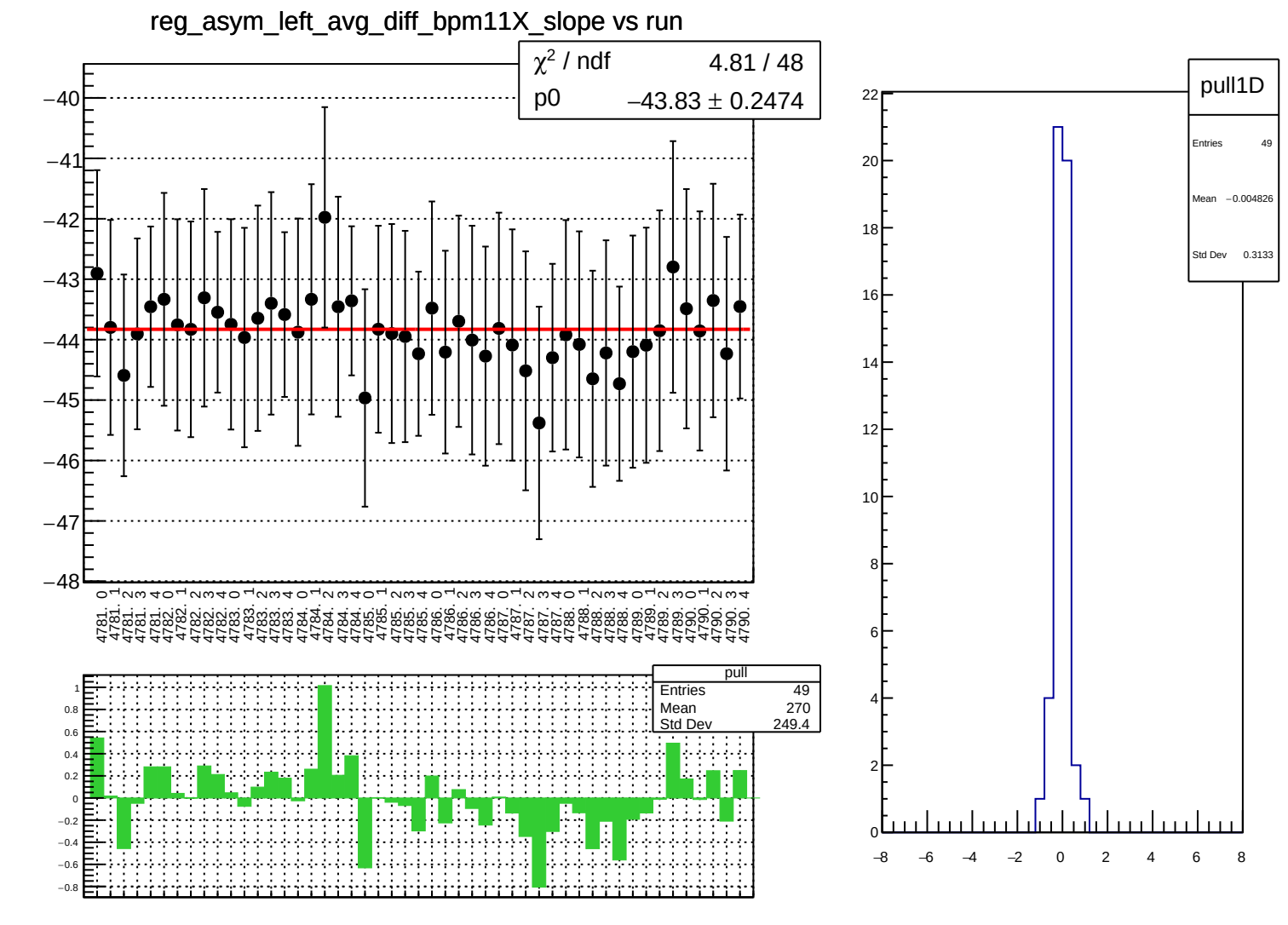

pull1D
Entries 49
Mean −0.0122
Std Dev 0.2897

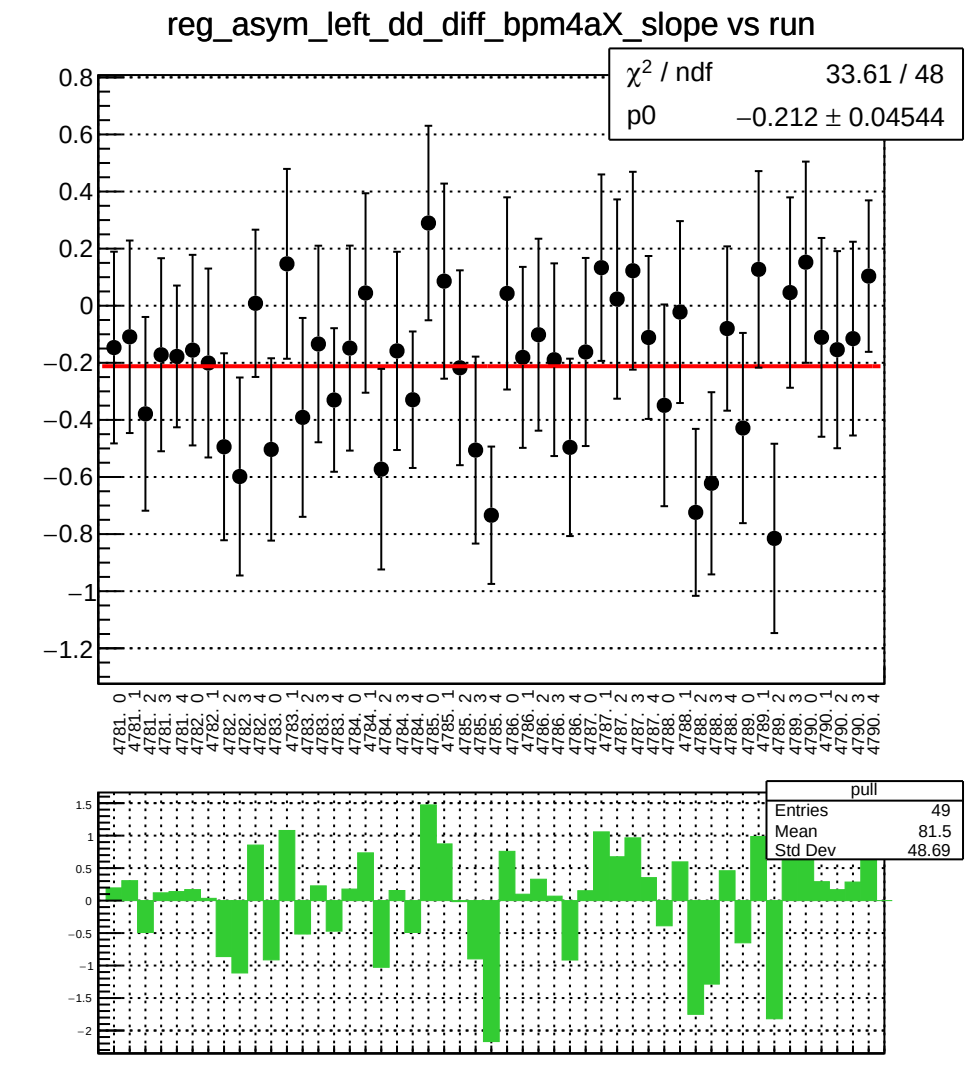

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.13 / 48
p0 −66.57 ± 0.1643
pull
Entries 49
Mean 190.8
Std Dev 169.6

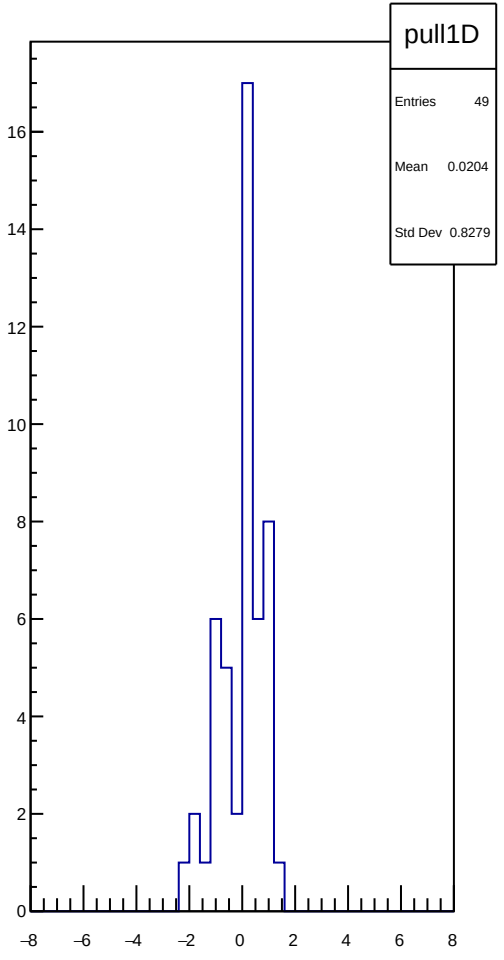

pull1D
Entries 49
Mean −0.04897
Std Dev 0.9259

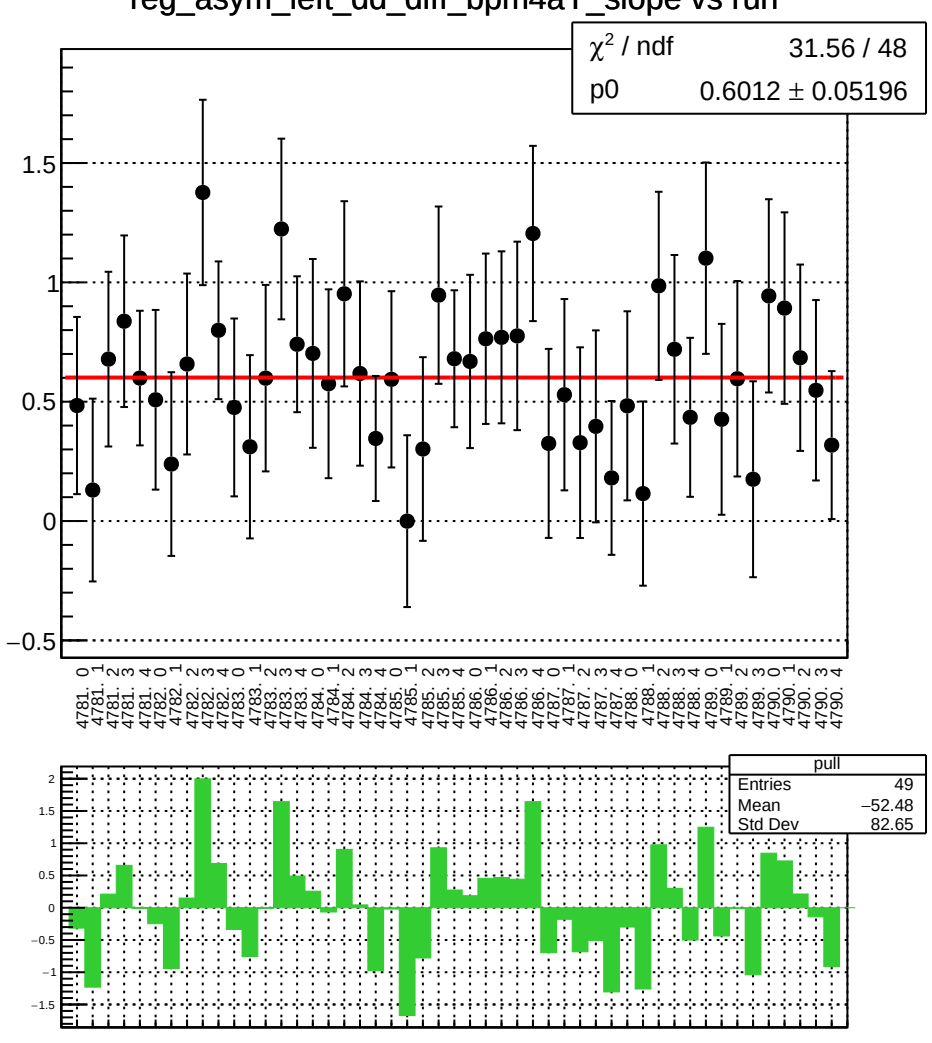

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.705 / 48
p0 6.86 ± 1.172
pull
Entries 49
Mean 194.8
Std Dev 168.1

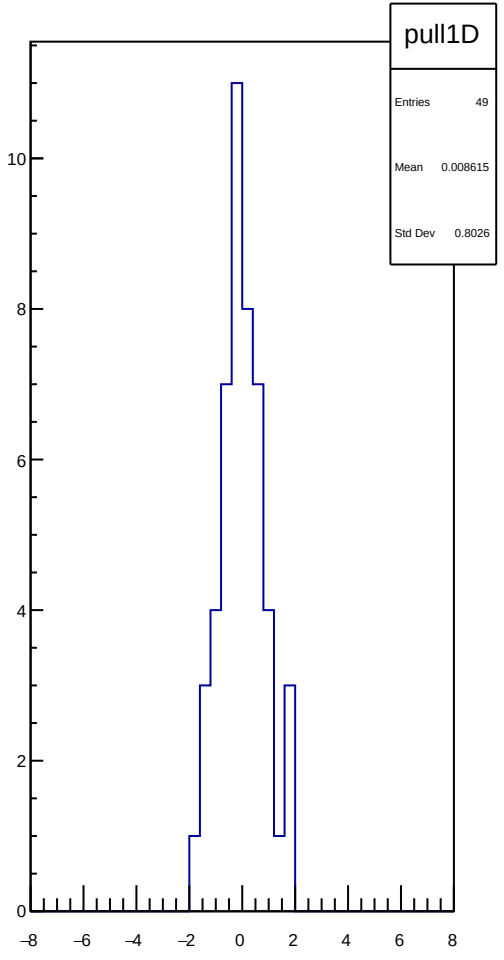

pull1D
Entries 49
Mean 0.004487
Std Dev 0.2749

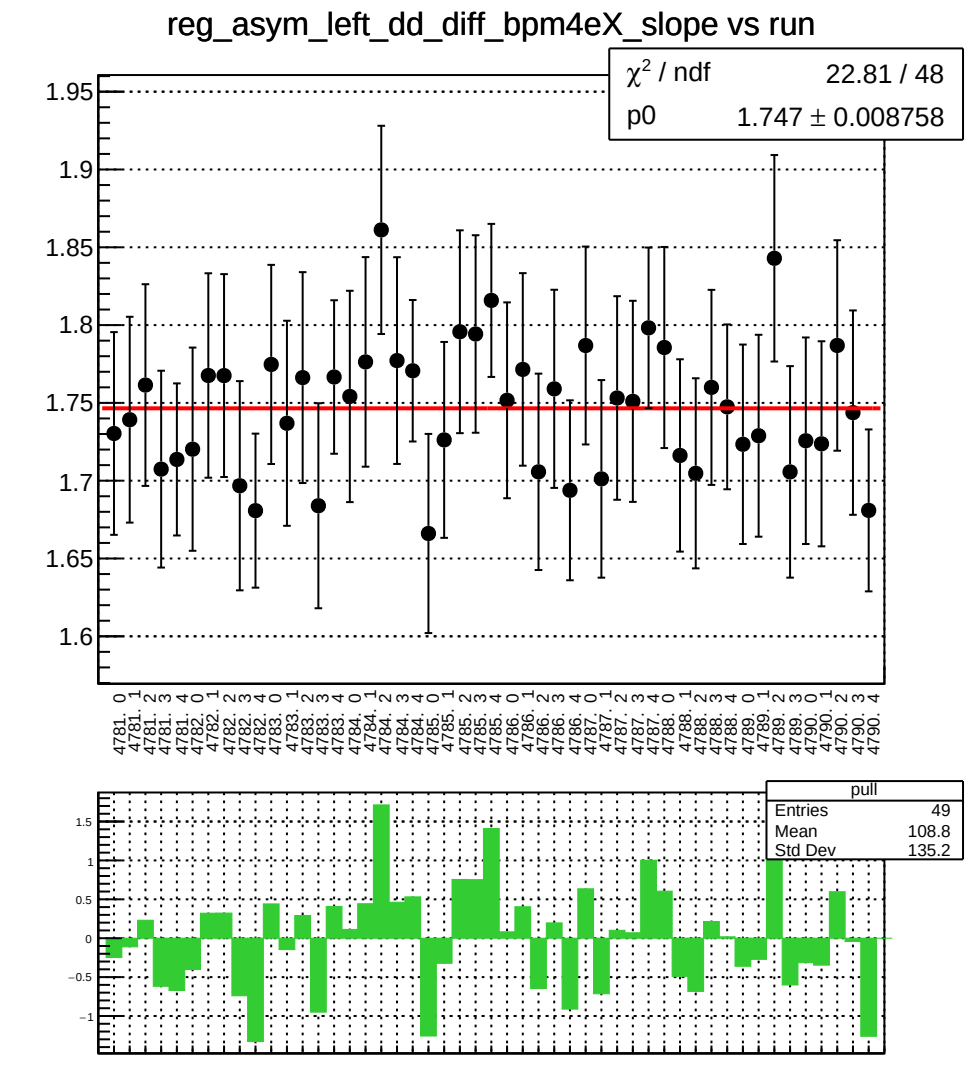

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 4.81 / 48
p0 −43.83 ± 0.2474
pull
Entries 49
Mean 270
Std Dev 249.4
pull1D
Entries 49
Mean −0.004826
Std Dev 0.3133

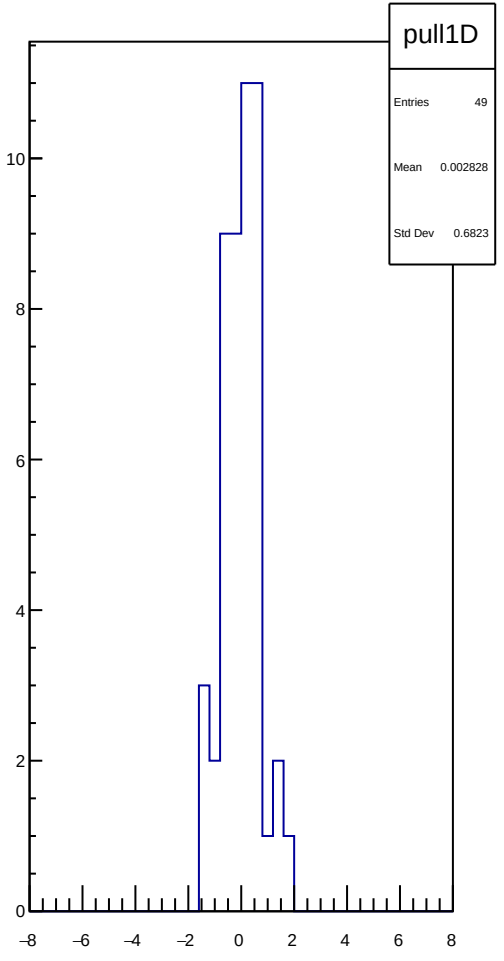

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 33.61 / 48
p0 −0.212 ± 0.04544
pull
Entries 49
Mean 81.5
Std Dev 48.69

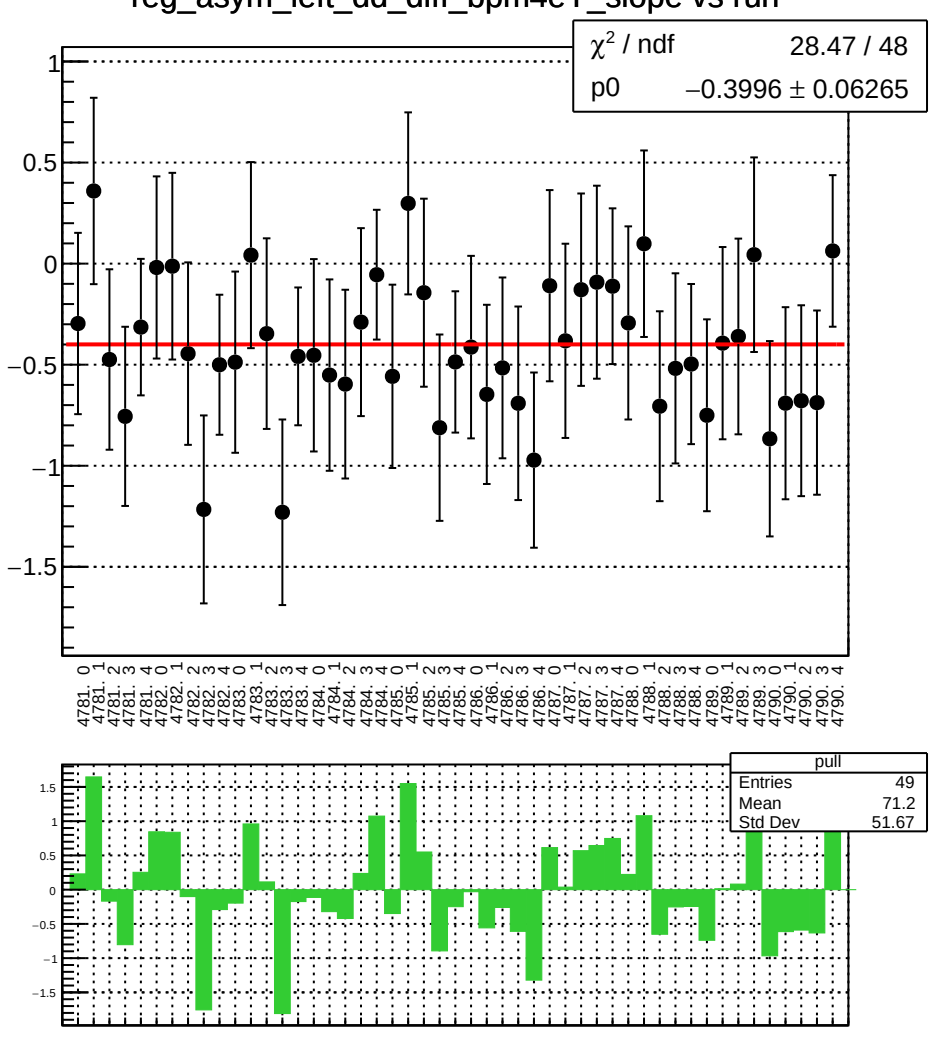

pull1D
Entries 49
Mean 0.0204
Std Dev 0.8279

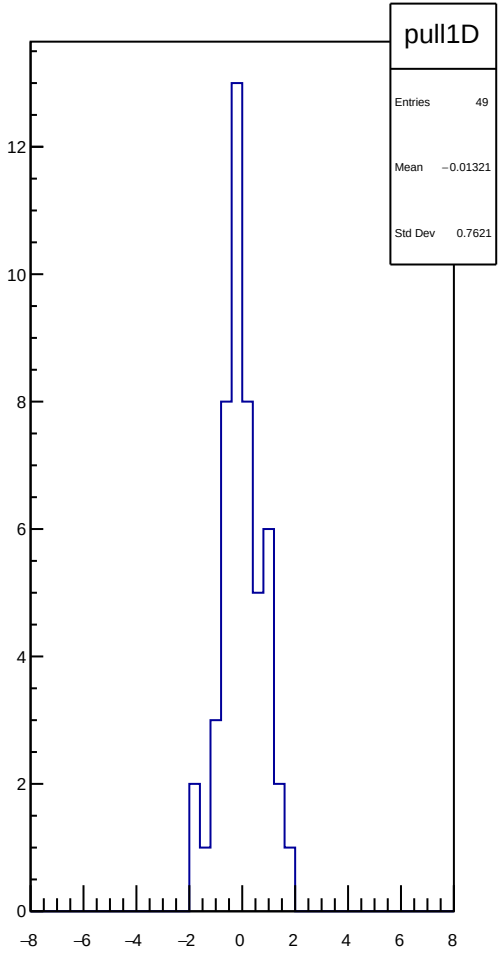

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.56 / 48
p0 0.6012 ± 0.05196
pull
Entries 49
Mean −52.48
Std Dev 82.65

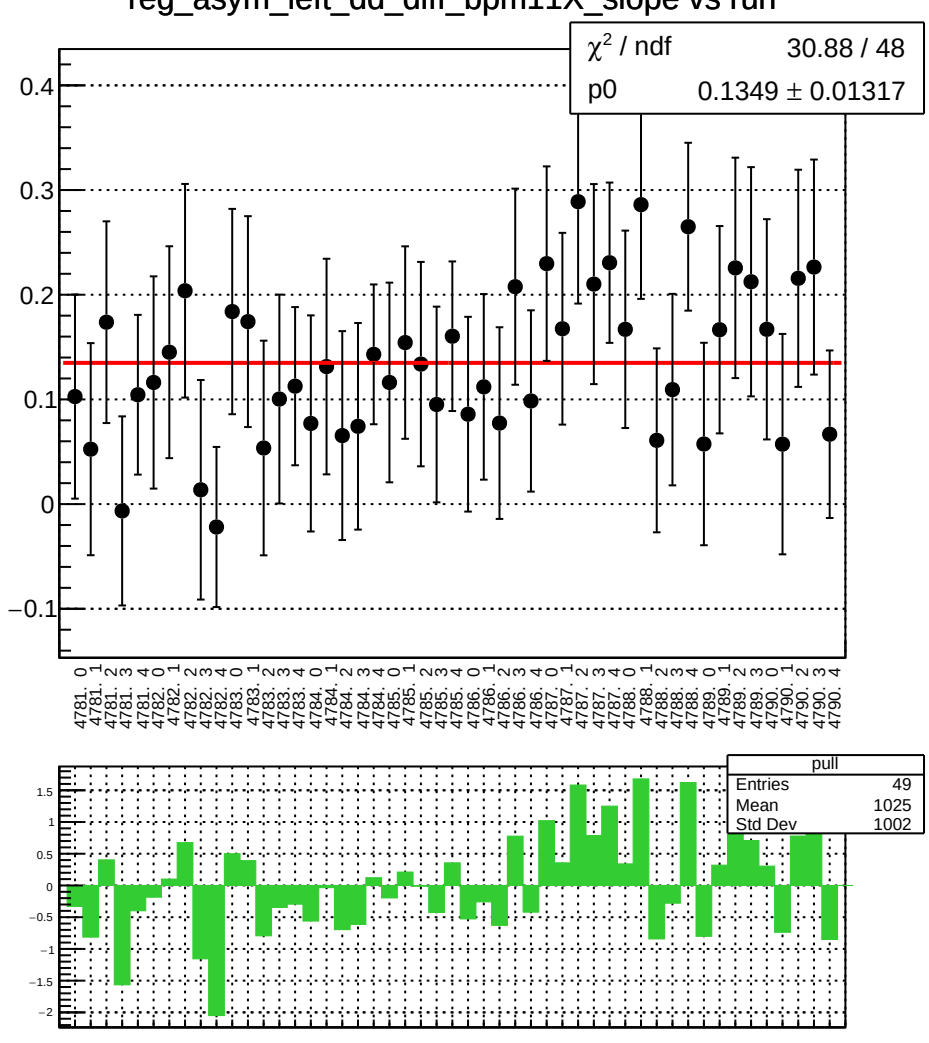

pull1D
Entries 49
Mean 0.008615
Std Dev 0.8026

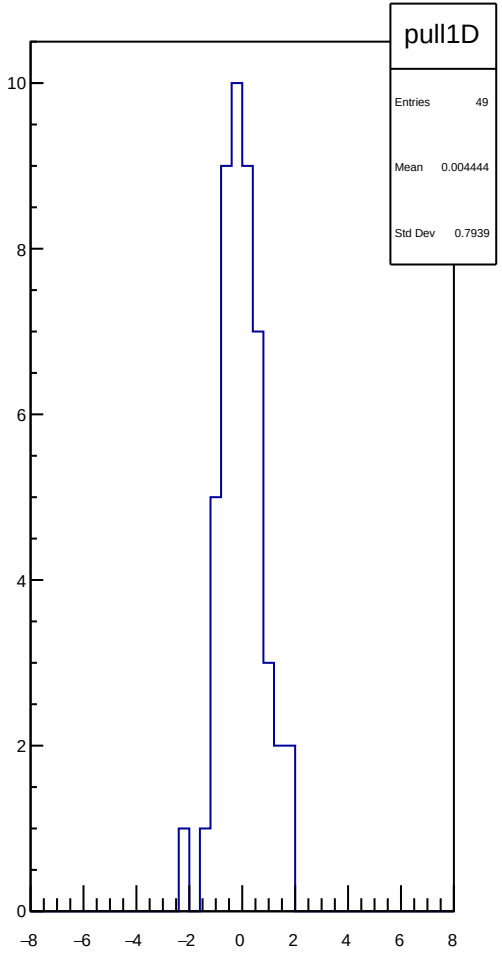

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.81 / 48
p0 1.747 ± 0.008758
pull
Entries 49
Mean 108.8
Std Dev 135.2

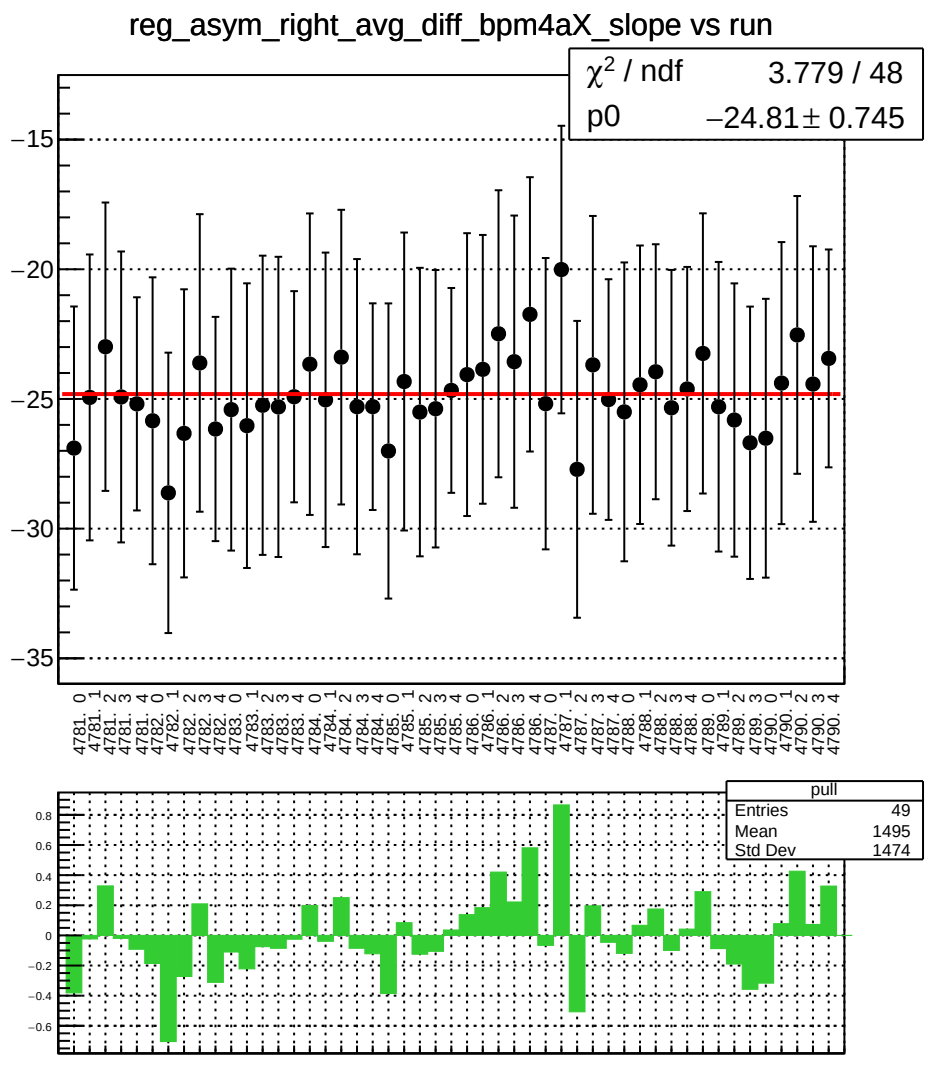

pull1D
Entries 49
Mean 0.002828
Std Dev 0.6823

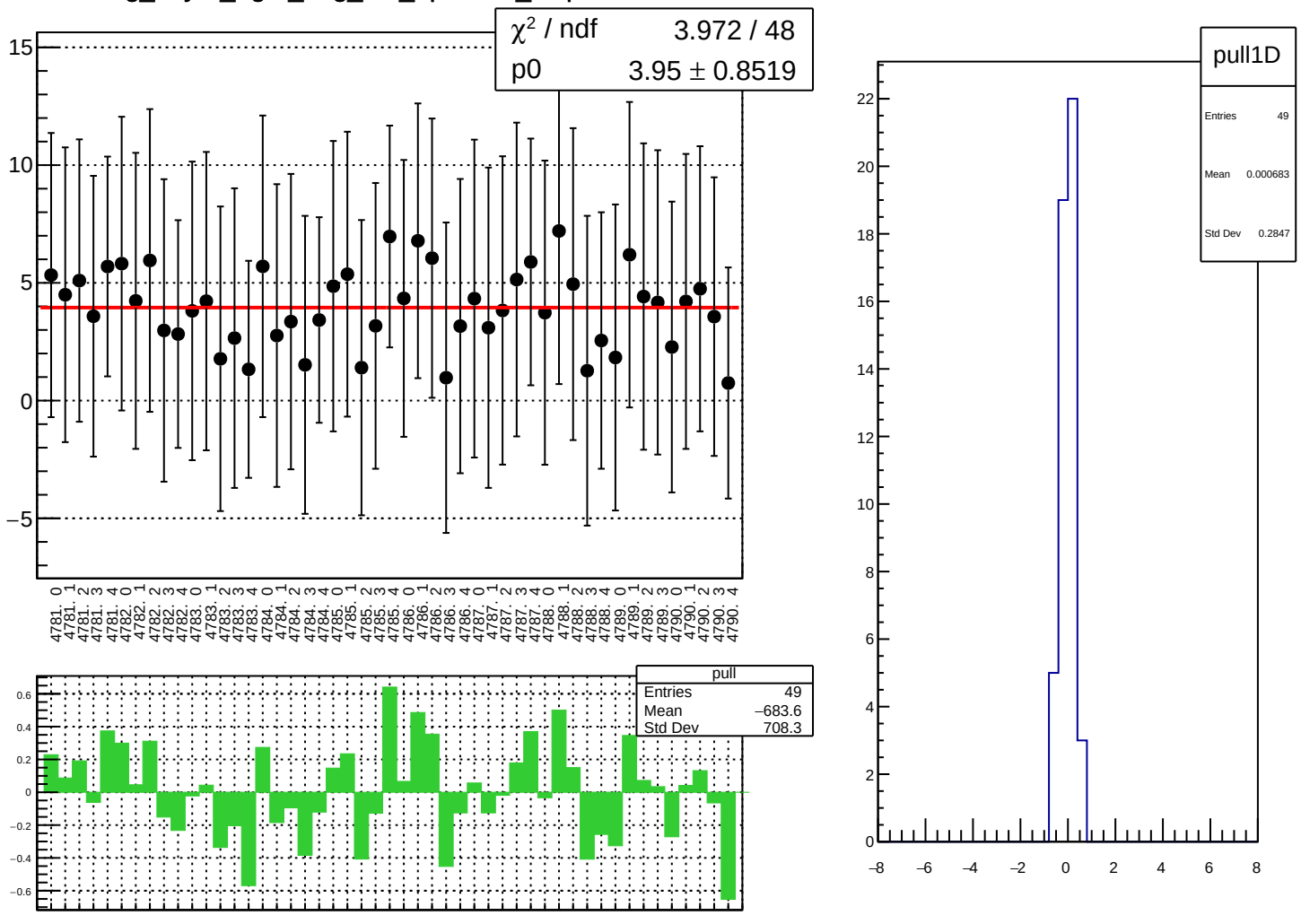

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.47 / 48
p0 −0.3996 ± 0.06265
pull
Entries 49
Mean 71.2
Std Dev 51.67

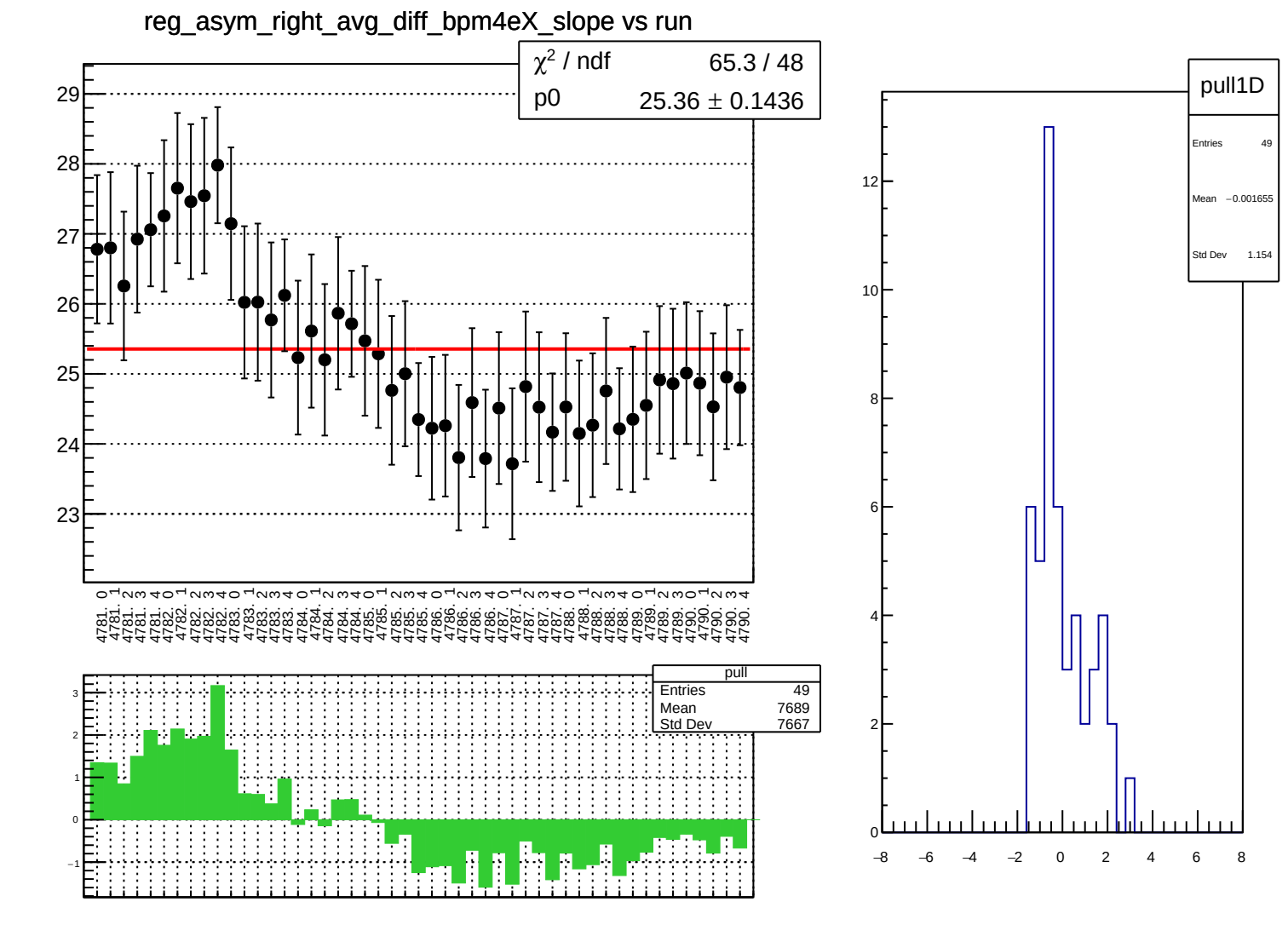

pull1D
Entries 49
Mean −0.01321
Std Dev 0.7621

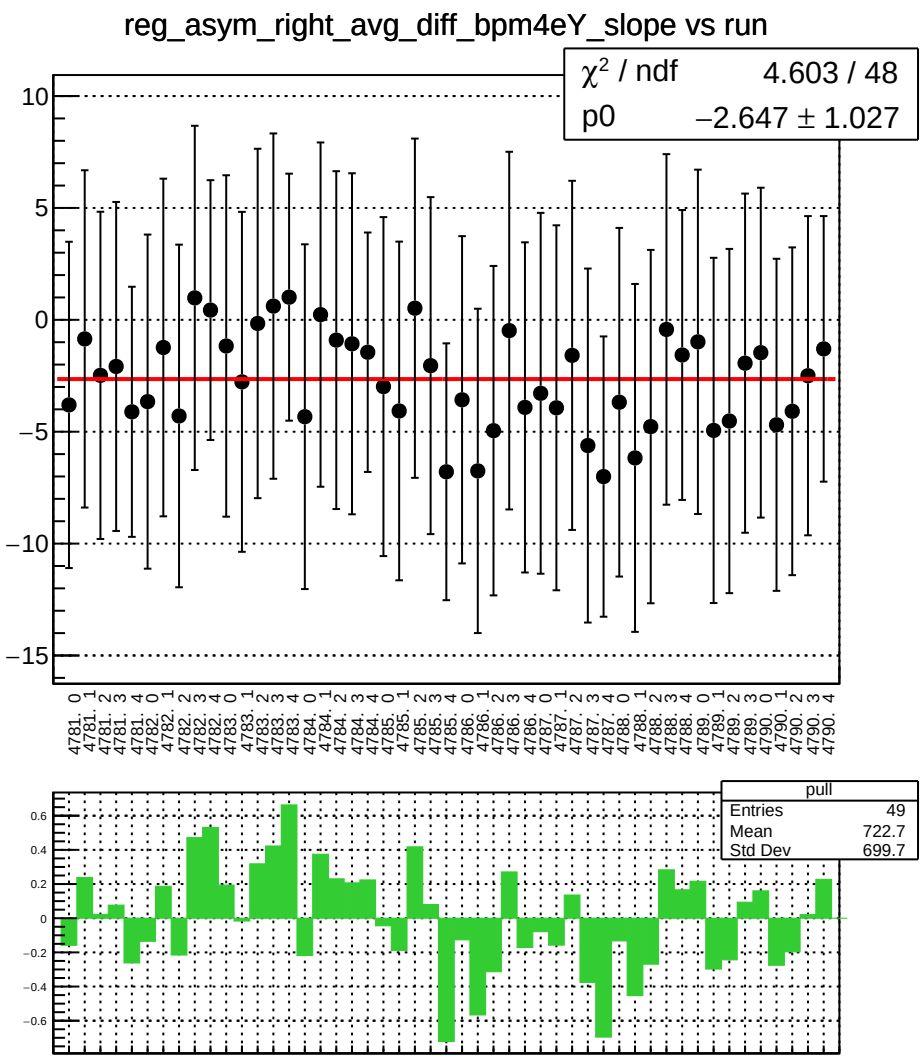

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 30.88 / 48
p0 0.1349 ± 0.01317
pull
Entries 49
Mean 1025
Std Dev 1002

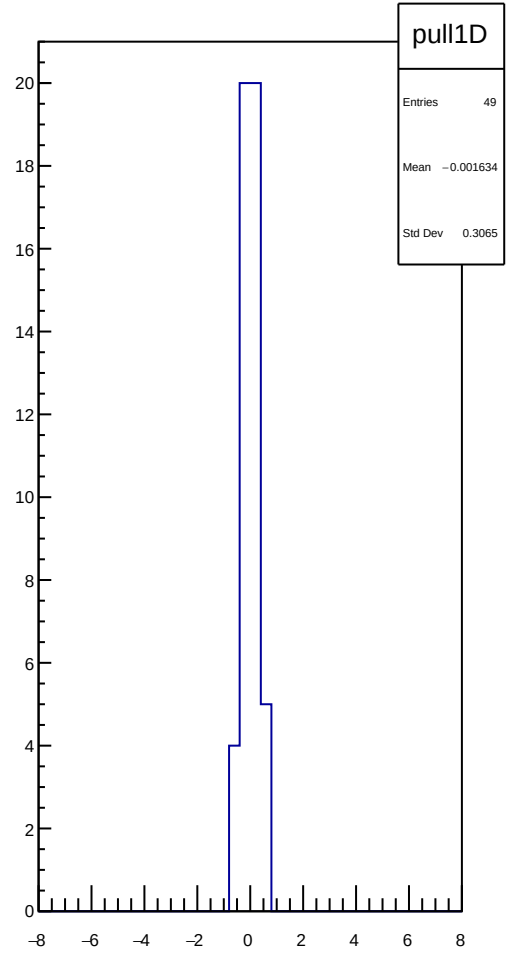

pull1D
Entries 49
Mean 0.004444
Std Dev 0.7939

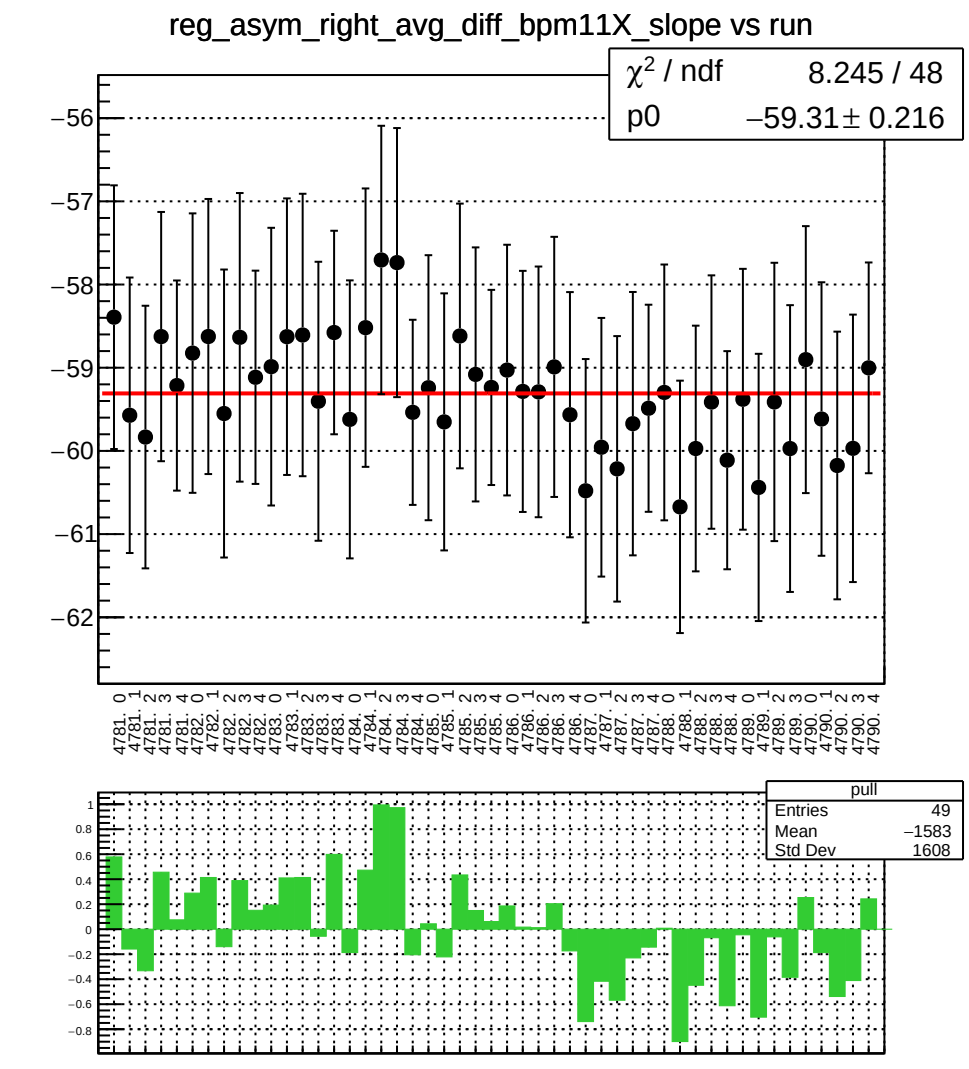

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 3.779 / 48
p0 −24.81 ± 0.745
−15
−20
−25
−30
−35
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 1495
Std Dev 1474
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 49
Mean 0.0006881
Std Dev 0.2777
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

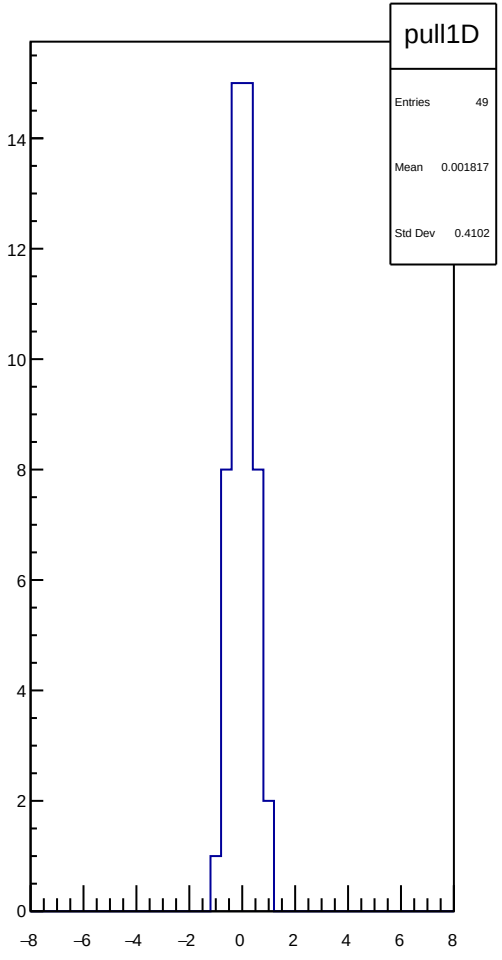

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.972 / 48
p0 3.95 ± 0.8519
pull
Entries 49
Mean −683.6
Std Dev 708.3
pull1D
Entries 49
Mean 0.000683
Std Dev 0.2847

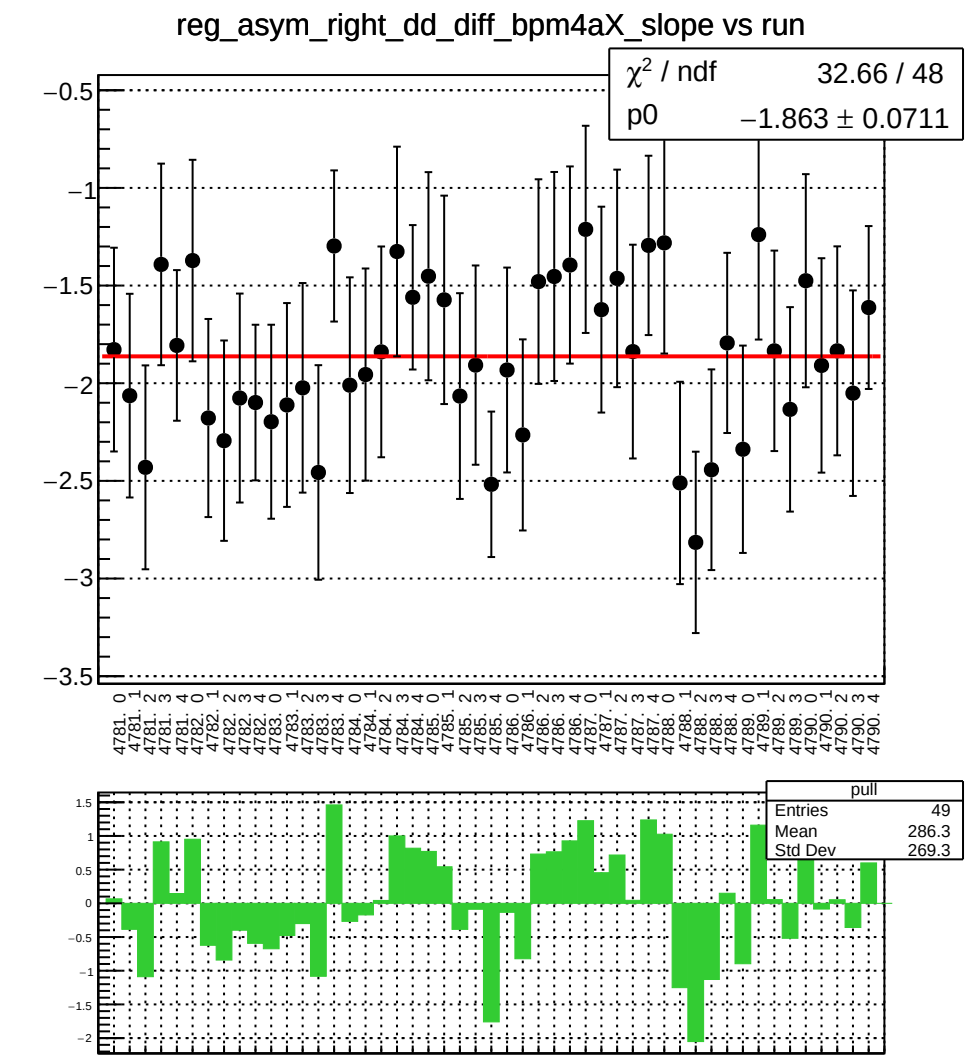

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 65.3 / 48
p0 25.36 ± 0.1436
pull
Entries 49
Mean 7689
Std Dev 7667
pull1D
Entries 49
Mean −0.001655
Std Dev 1.154

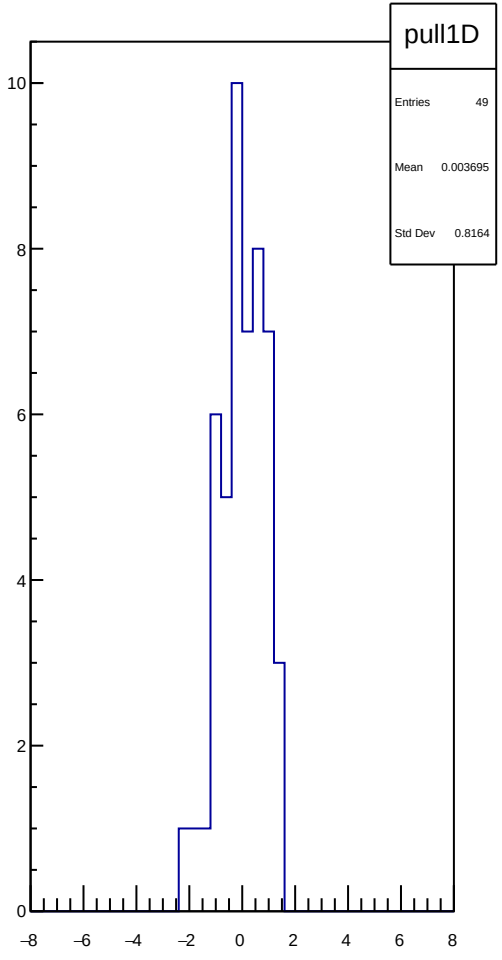

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.603 / 48
p0 −2.647 ± 1.027
pull
Entries 49
Mean 722.7
Std Dev 699.7

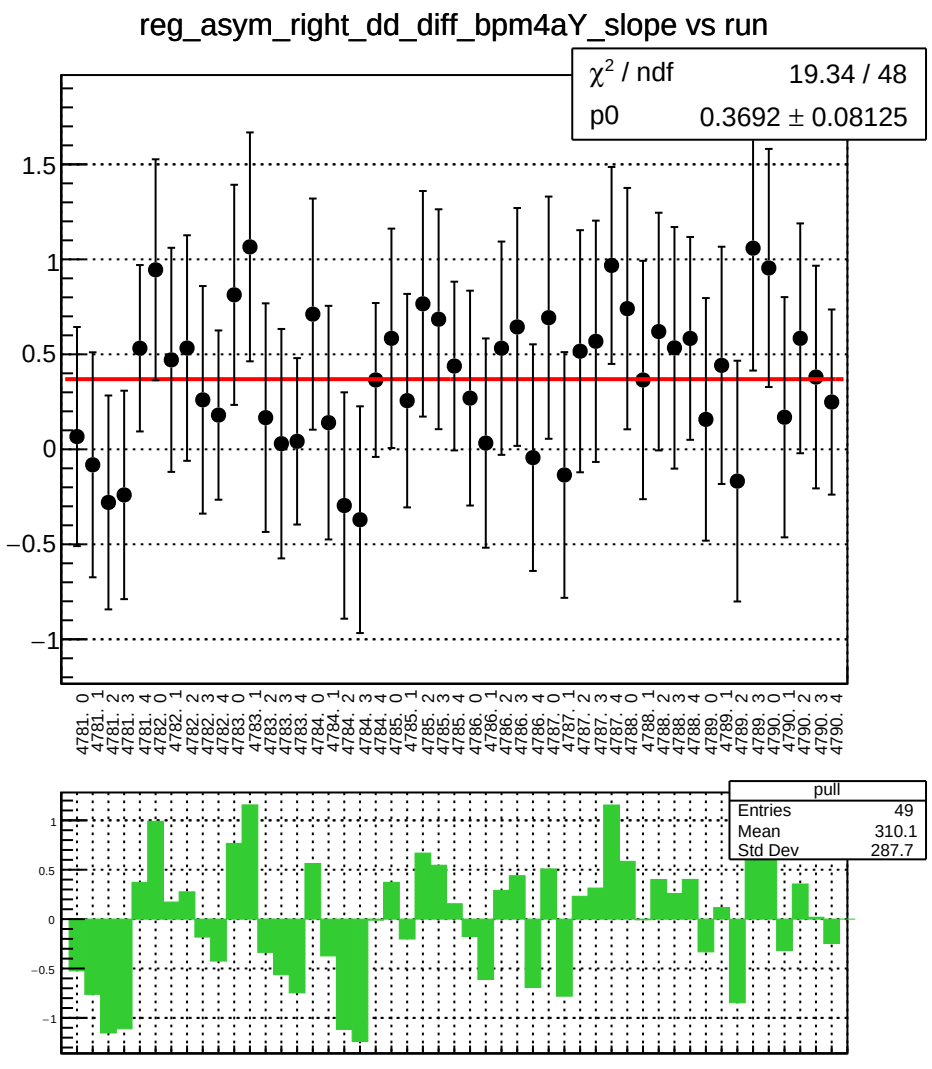

pull1D
Entries 49
Mean −0.001634
Std Dev 0.3065

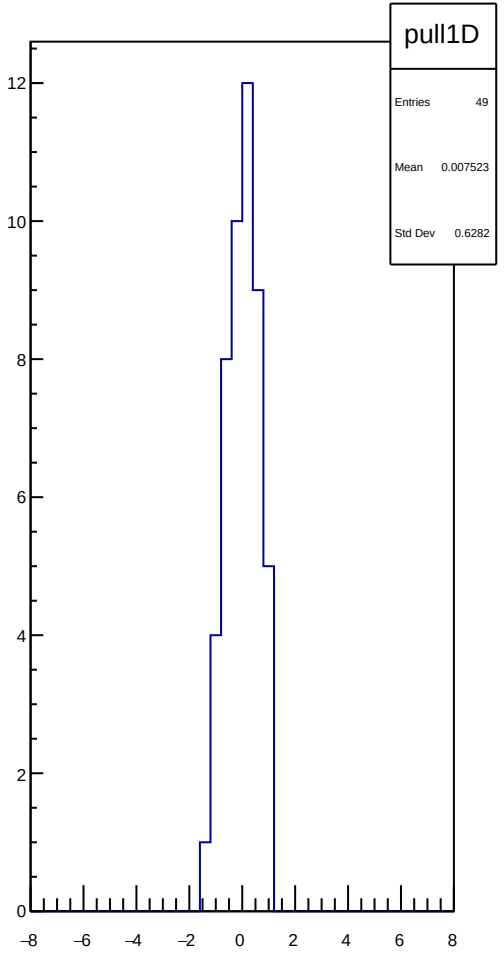

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 8.245 / 48
p0 −59.31 ± 0.216
pull
Entries 49
Mean −1583
Std Dev 1608

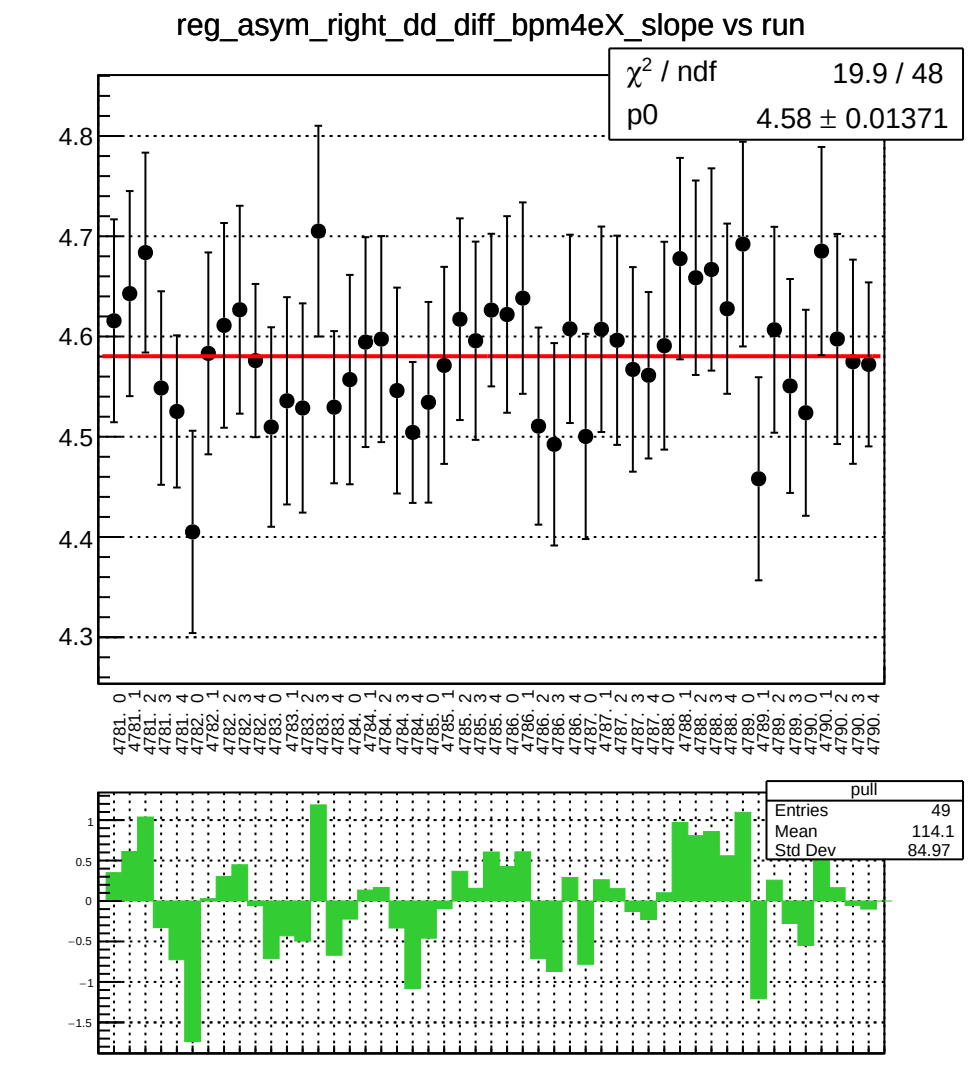

pull1D
Entries 49
Mean 0.001817
Std Dev 0.4102

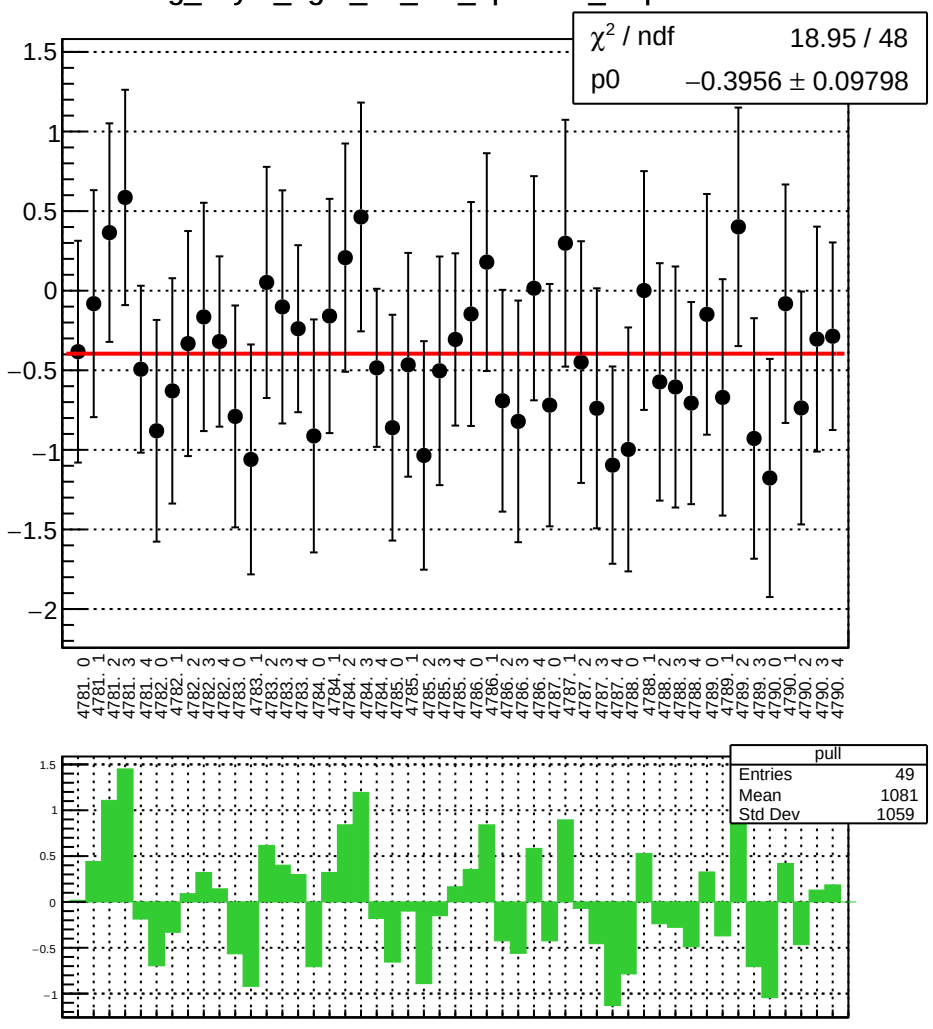

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 32.66 / 48
p0 −1.863 ± 0.0711
pull
Entries 49
Mean 286.3
Std Dev 269.3

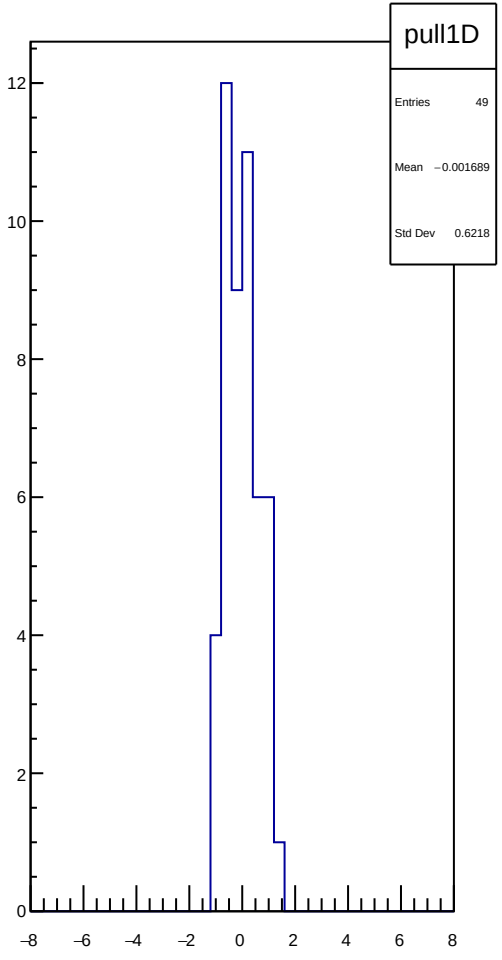

pull1D
Entries 49
Mean 0.003695
Std Dev 0.8164

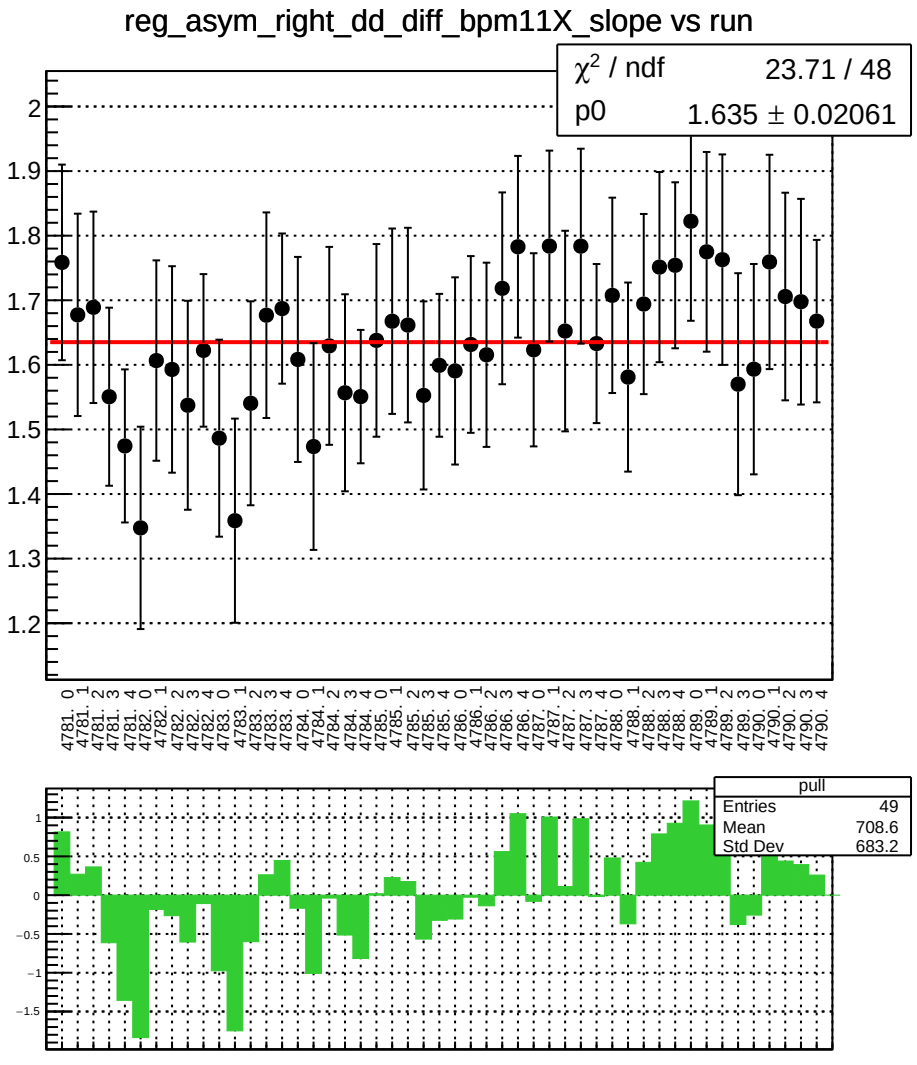

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.34 / 48
p0 0.3692 ± 0.08125
pull
Entries 49
Mean 310.1
Std Dev 287.7

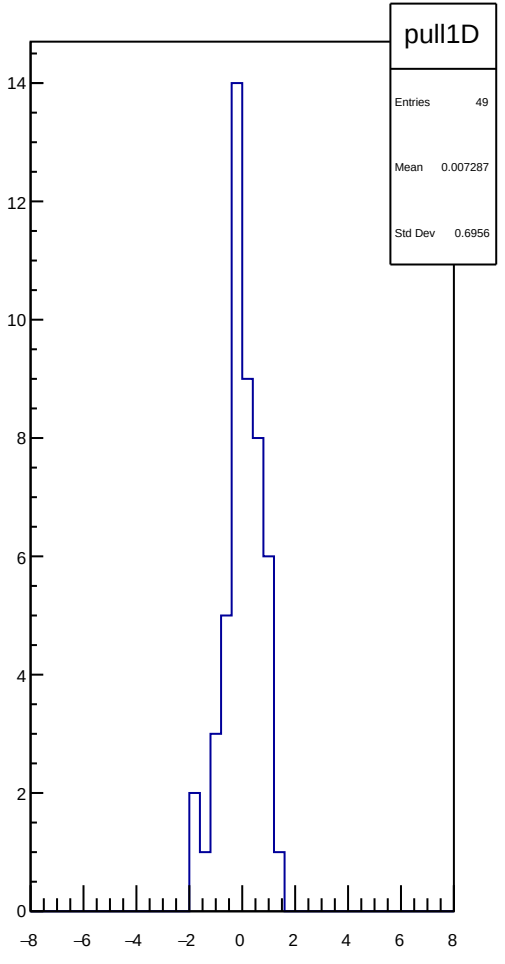

pull1D
Entries 49
Mean 0.007523
Std Dev 0.6282

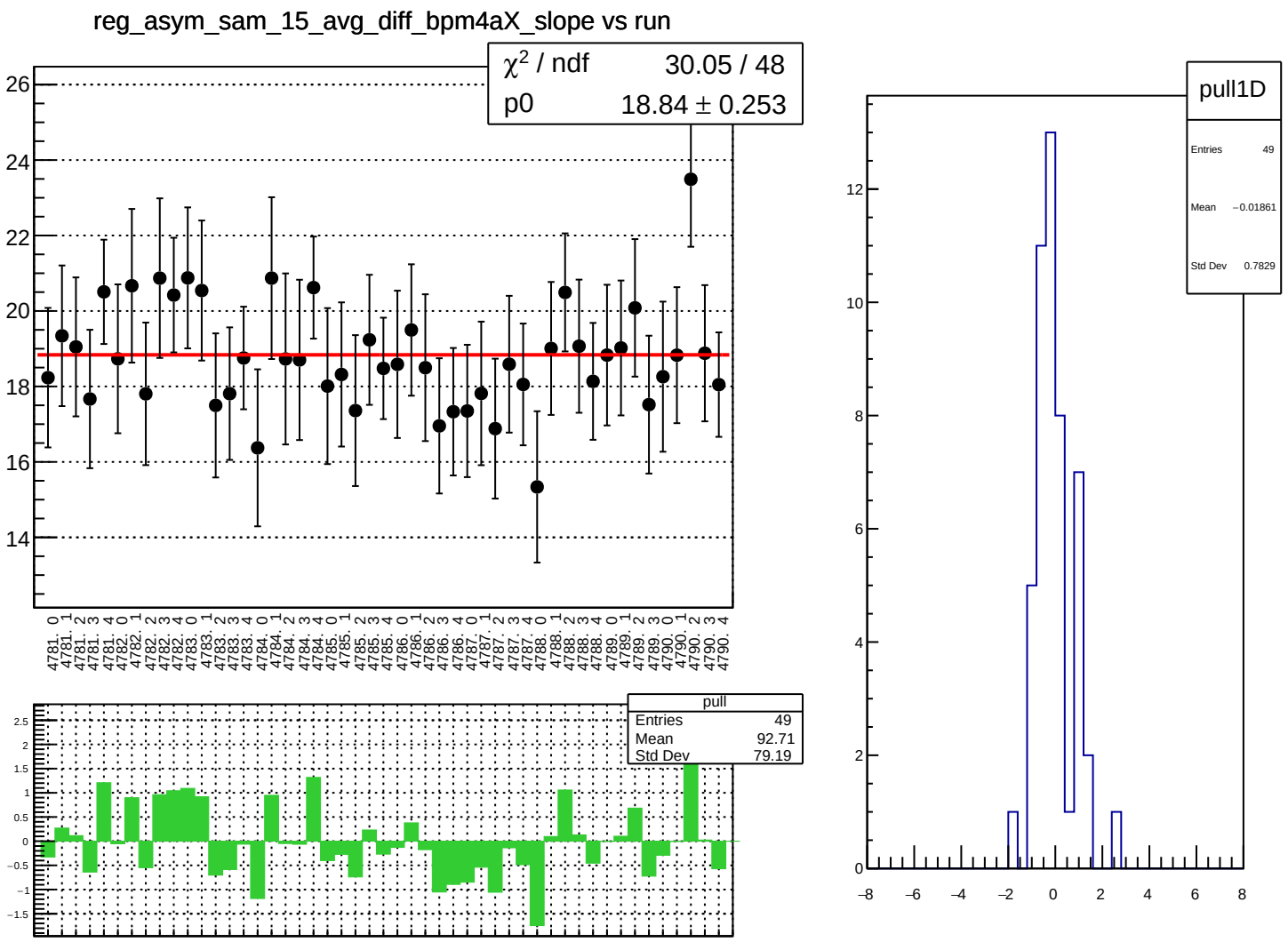

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.9 / 48
p0 4.58 ± 0.01371
4.8
4.7
4.6
4.5
4.4
4.3
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 114.1
Std Dev 84.97
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 49
Mean 0.01442
Std Dev 0.6371
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

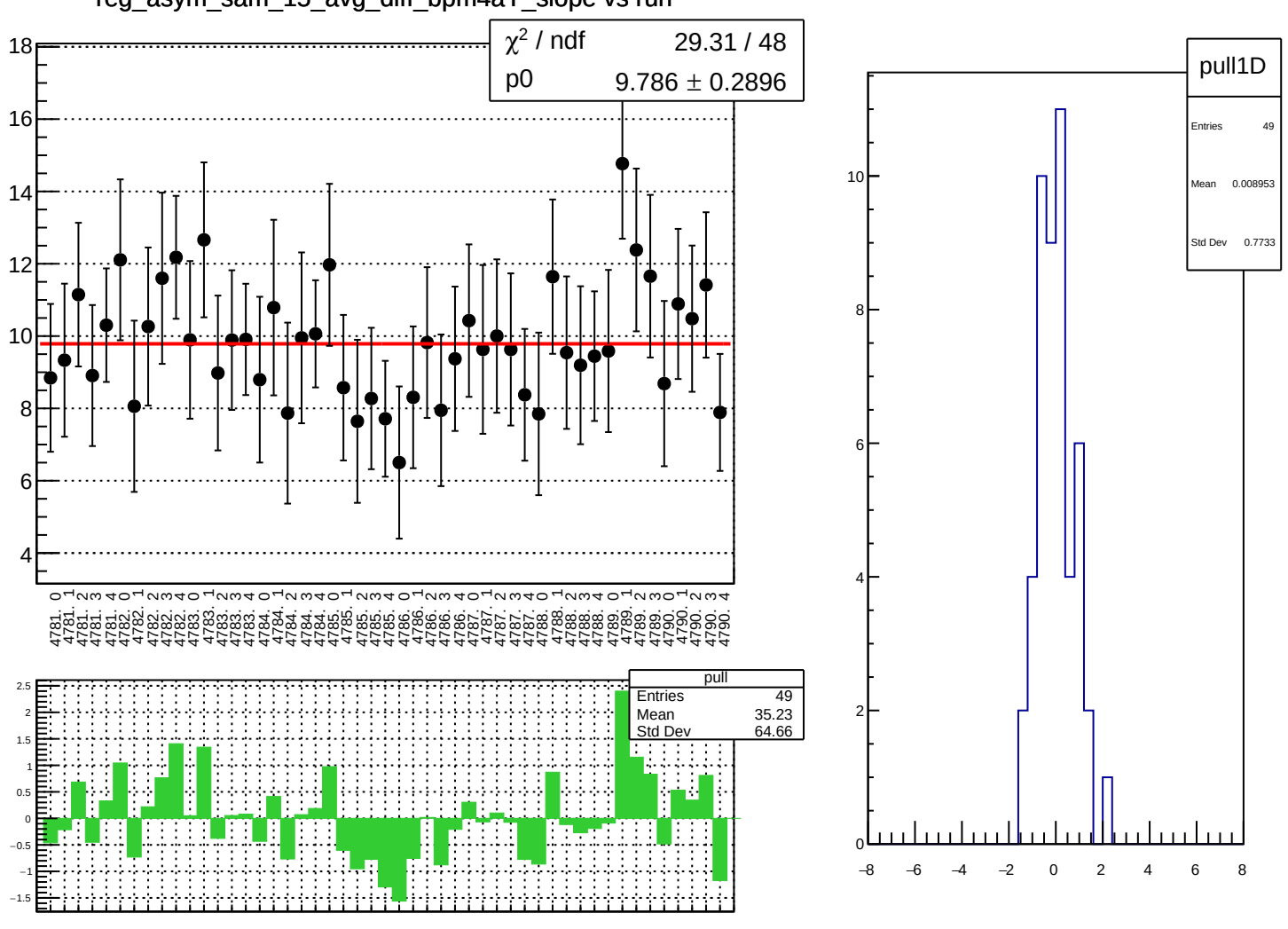

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.95 / 48
p0 −0.3956 ± 0.09798
pull
Entries 49
Mean 1081
Std Dev 1059

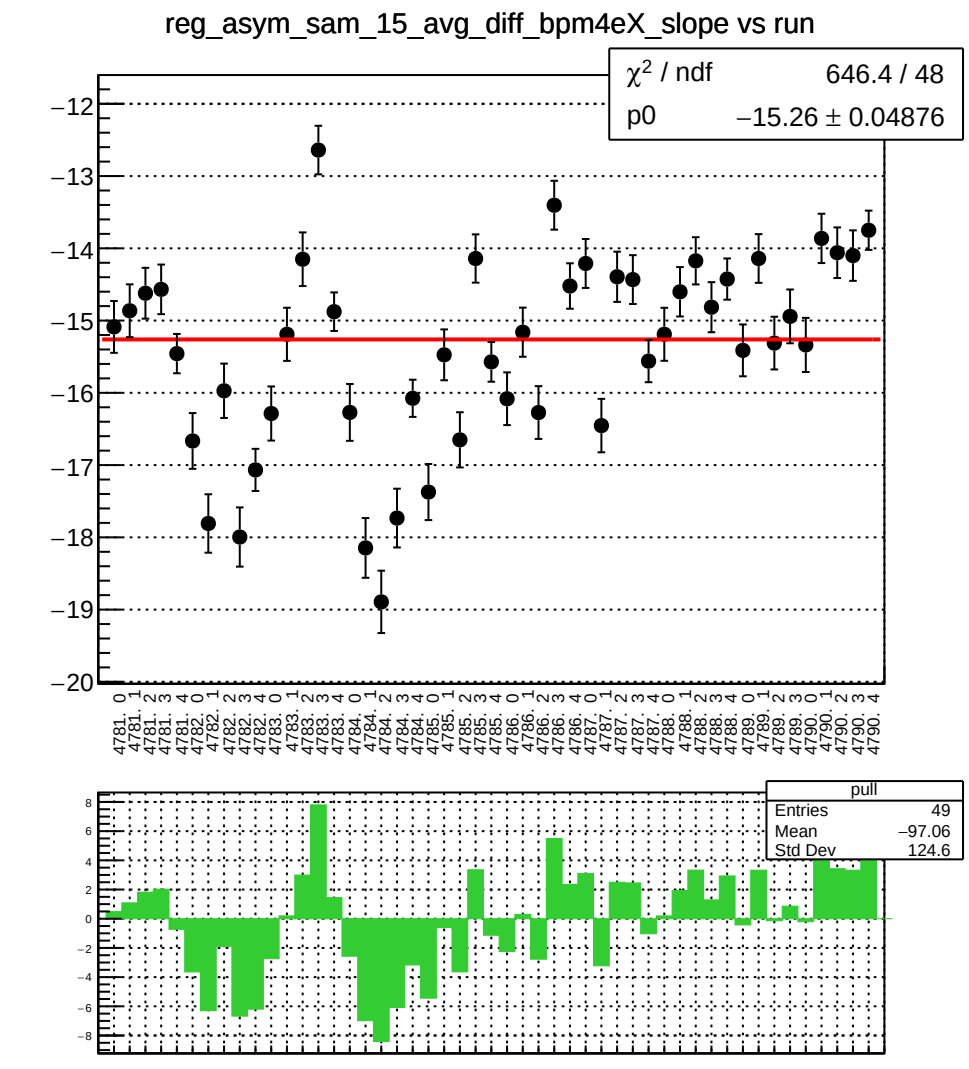

pull1D
Entries 49
Mean −0.001689
Std Dev 0.6218

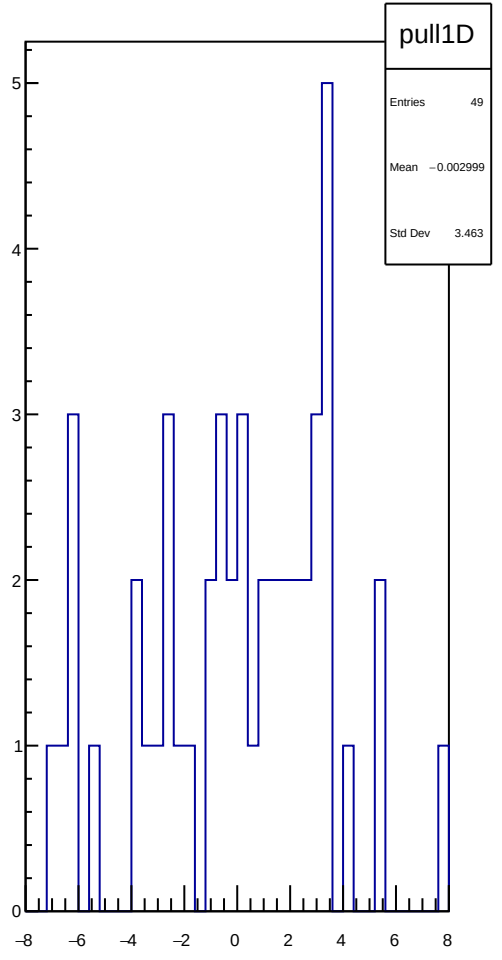

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 23.71 / 48
p0 1.635 ± 0.02061
pull
Entries 49
Mean 708.6
Std Dev 683.2

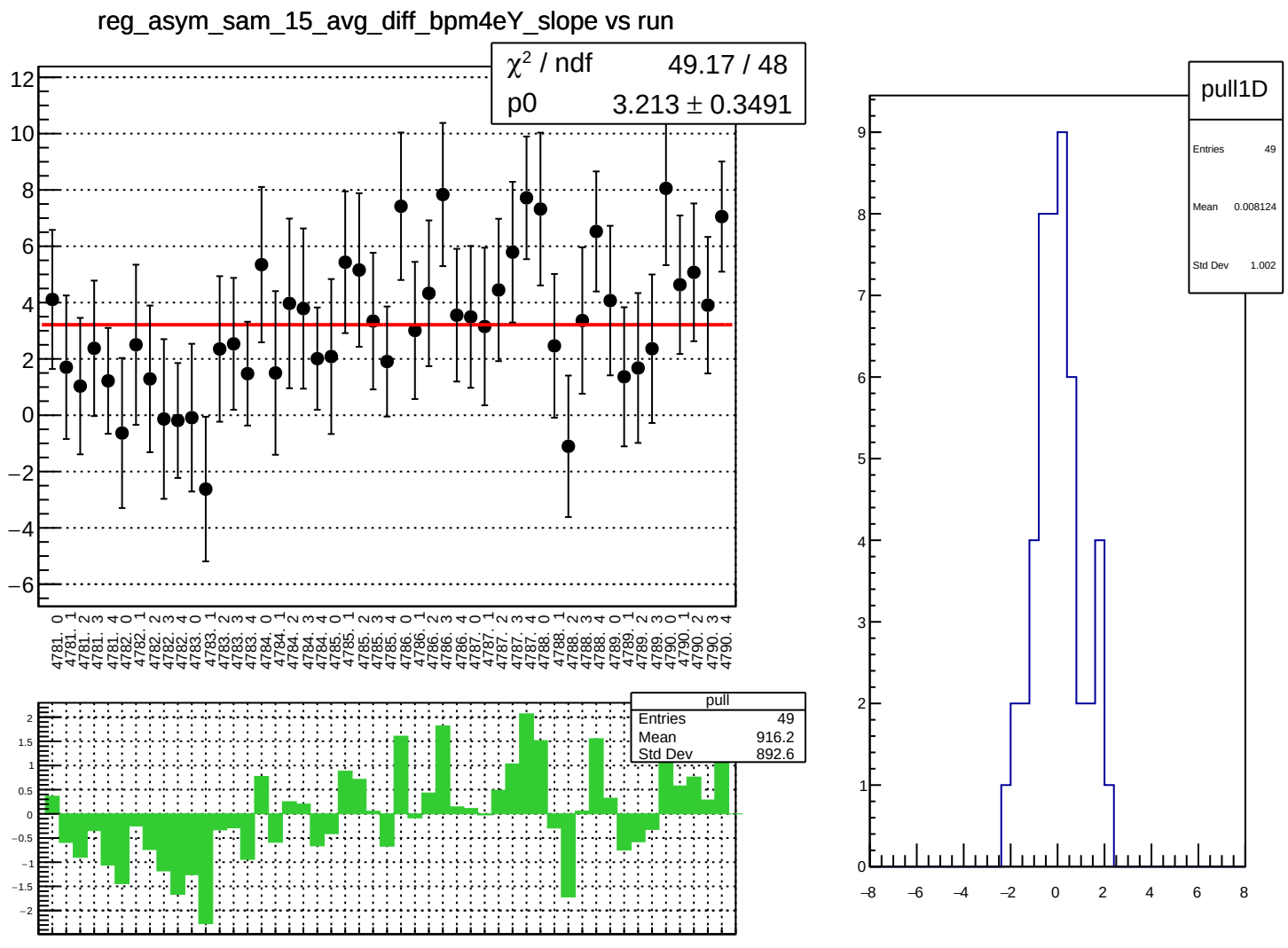

pull1D
Entries 49
Mean 0.007287
Std Dev 0.6956

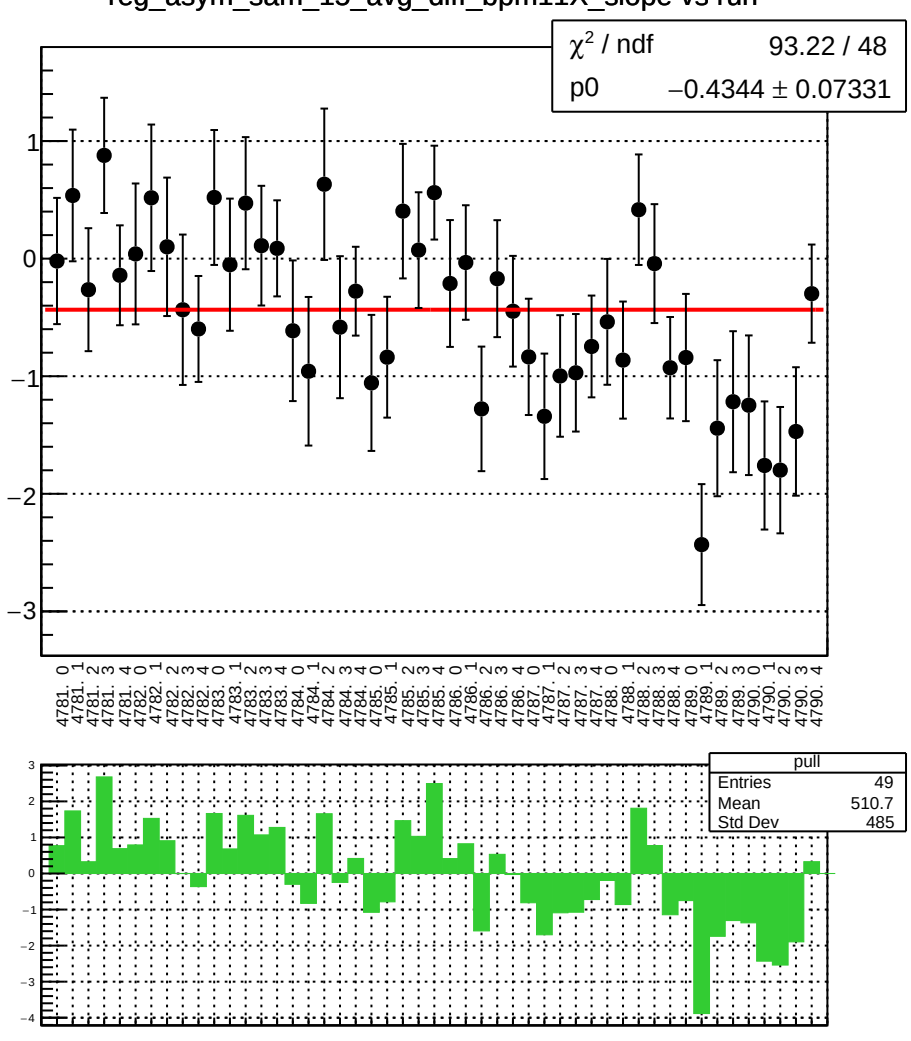

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 30.05 / 48
p0 18.84 ± 0.253
pull
Entries 49
Mean 92.71
Std Dev 79.19
pull1D
Entries 49
Mean −0.01861
Std Dev 0.7829

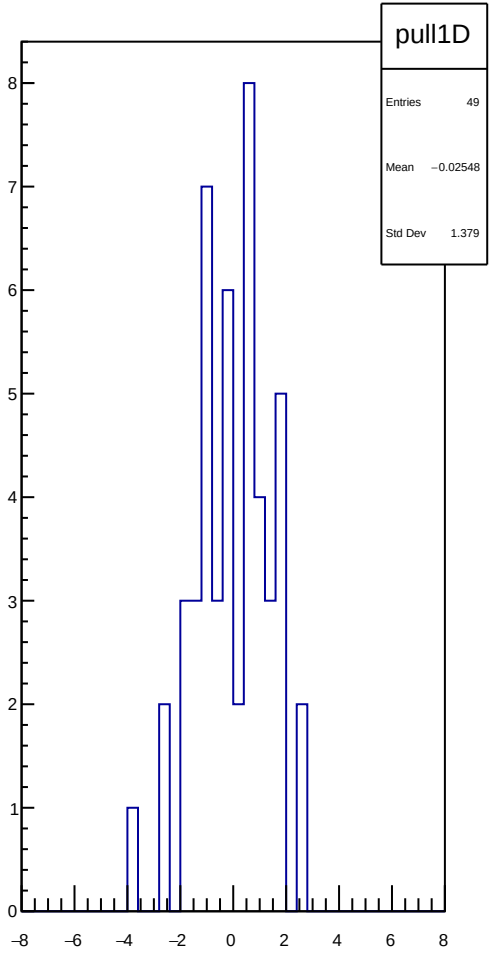

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.31 / 48
p0 9.786 ± 0.2896
pull
Entries 49
Mean 35.23
Std Dev 64.66
pull1D
Entries 49
Mean 0.008953
Std Dev 0.7733

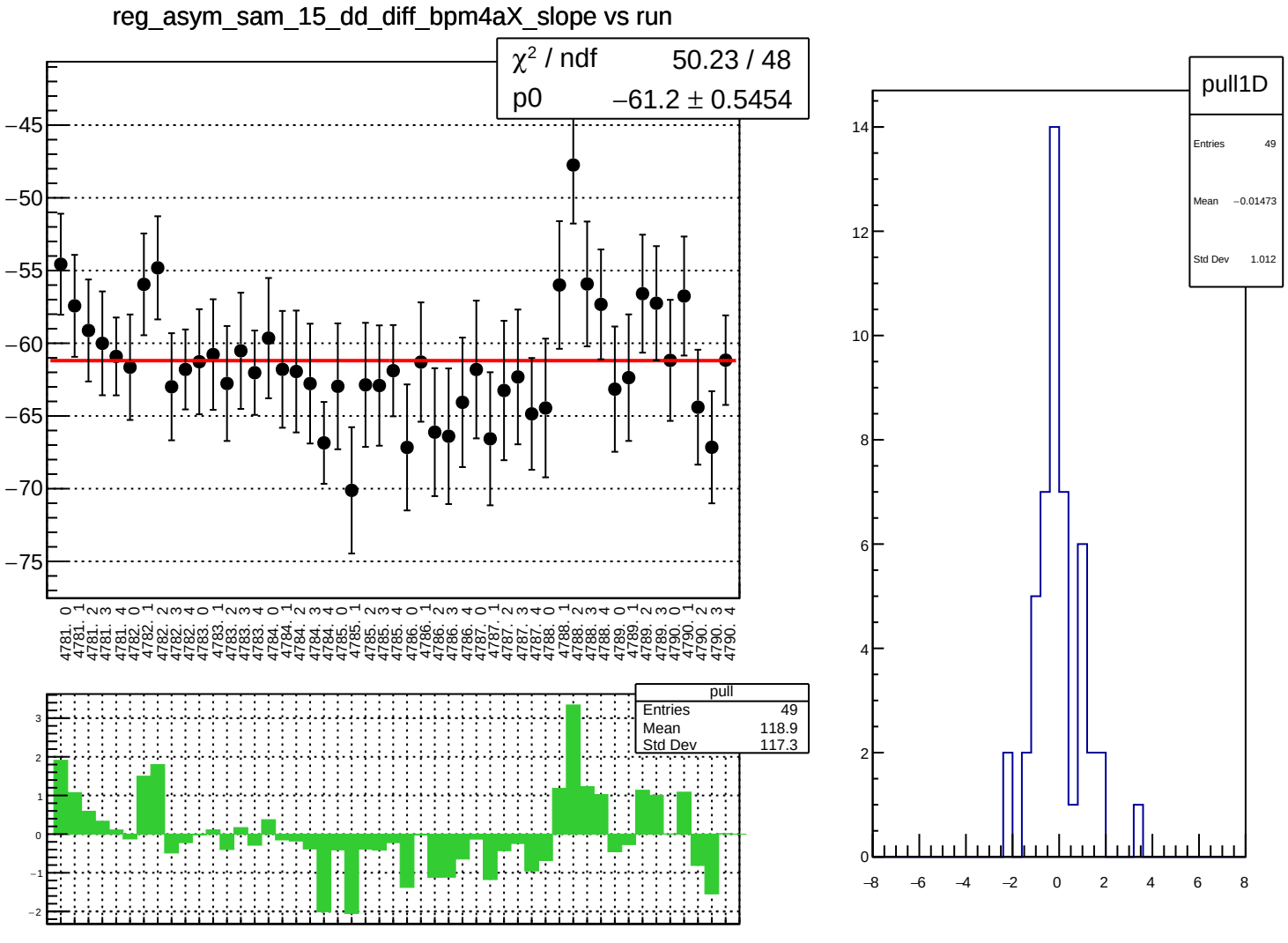

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 646.4 / 48
p0 −15.26 ± 0.04876
pull
Entries 49
Mean −97.06
Std Dev 124.6

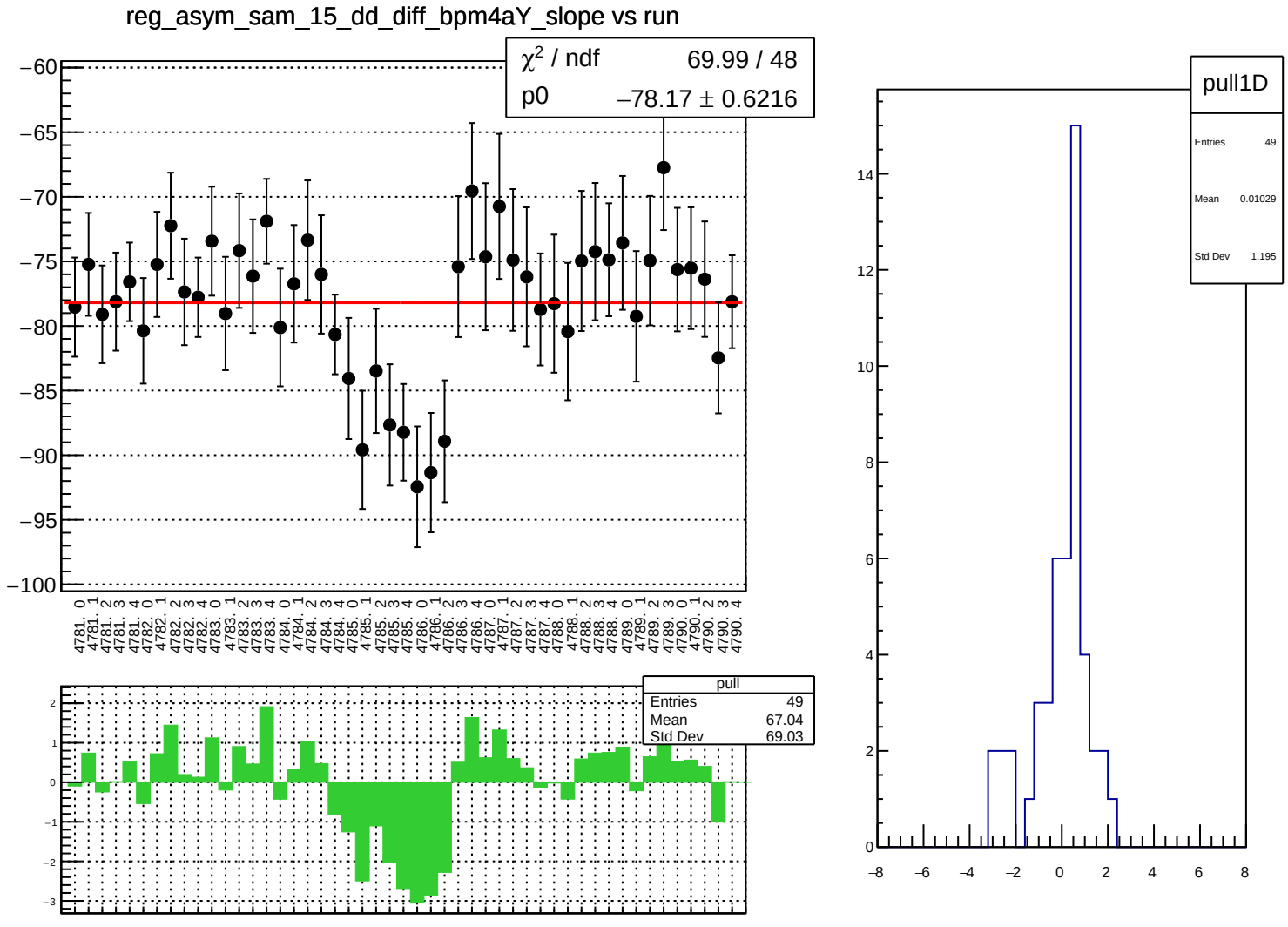

pull1D
Entries 49
Mean −0.002999
Std Dev 3.463

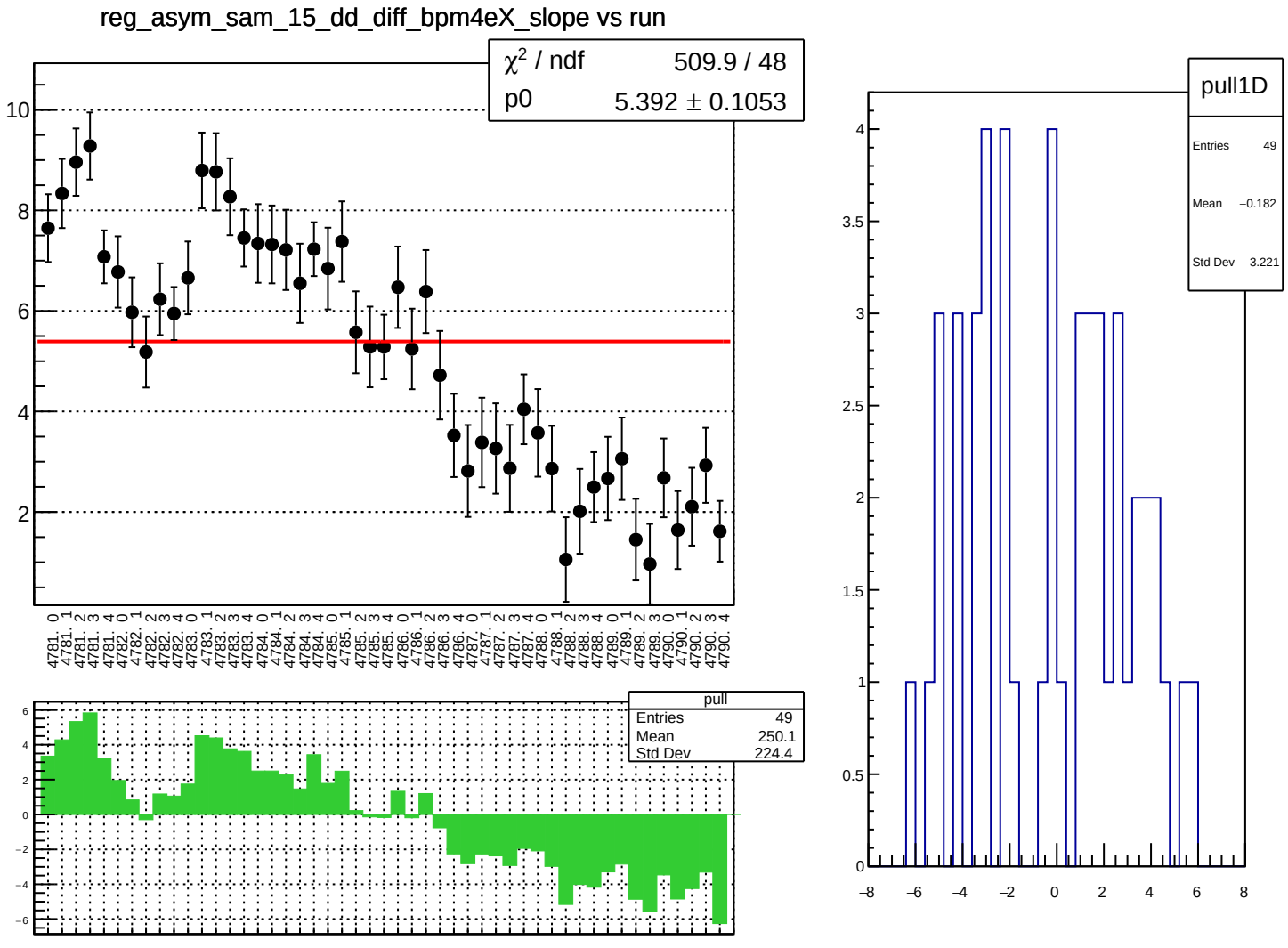

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 49.17 / 48
p0 3.213 ± 0.3491
pull
Entries 49
Mean 916.2
Std Dev 892.6
pull1D
Entries 49
Mean 0.008124
Std Dev 1.002

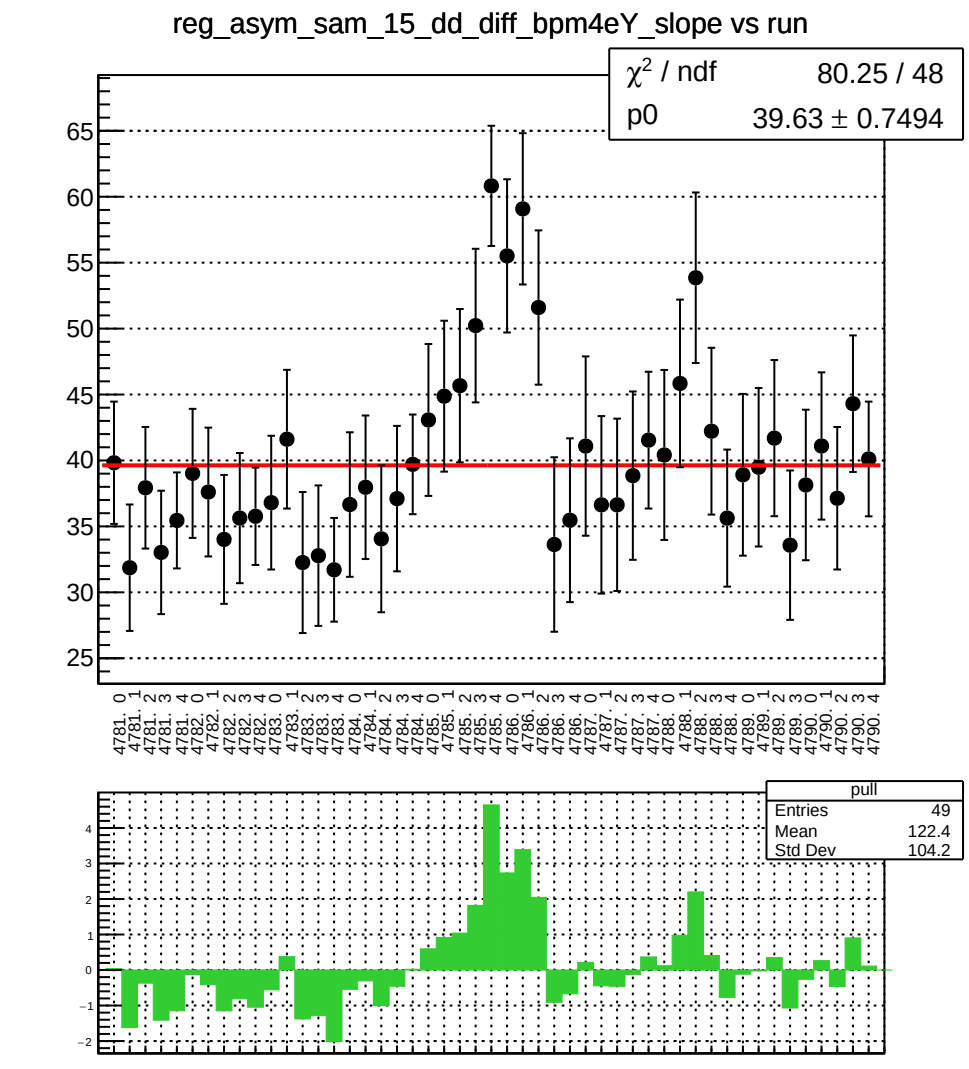

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 93.22 / 48
p0 −0.4344 ± 0.07331
pull
Entries 49
Mean 510.7
Std Dev 485

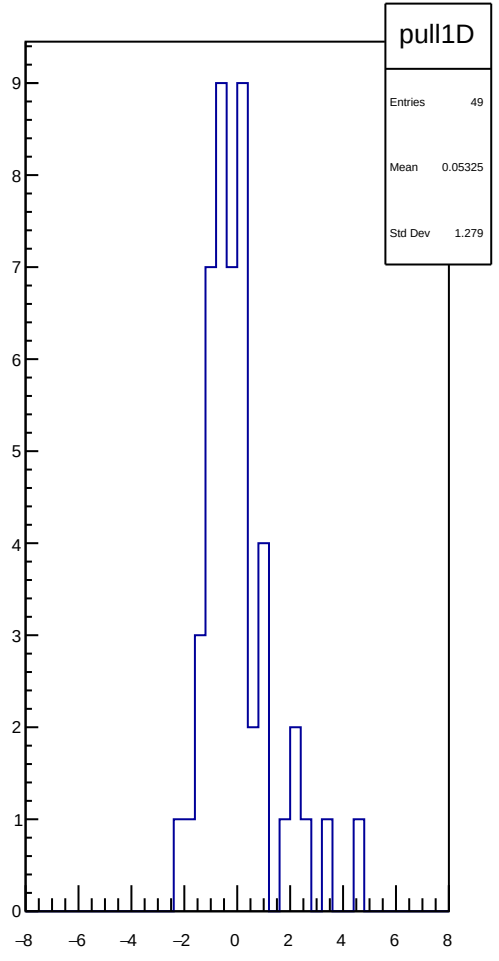

pull1D
Entries 49
Mean −0.02548
Std Dev 1.379

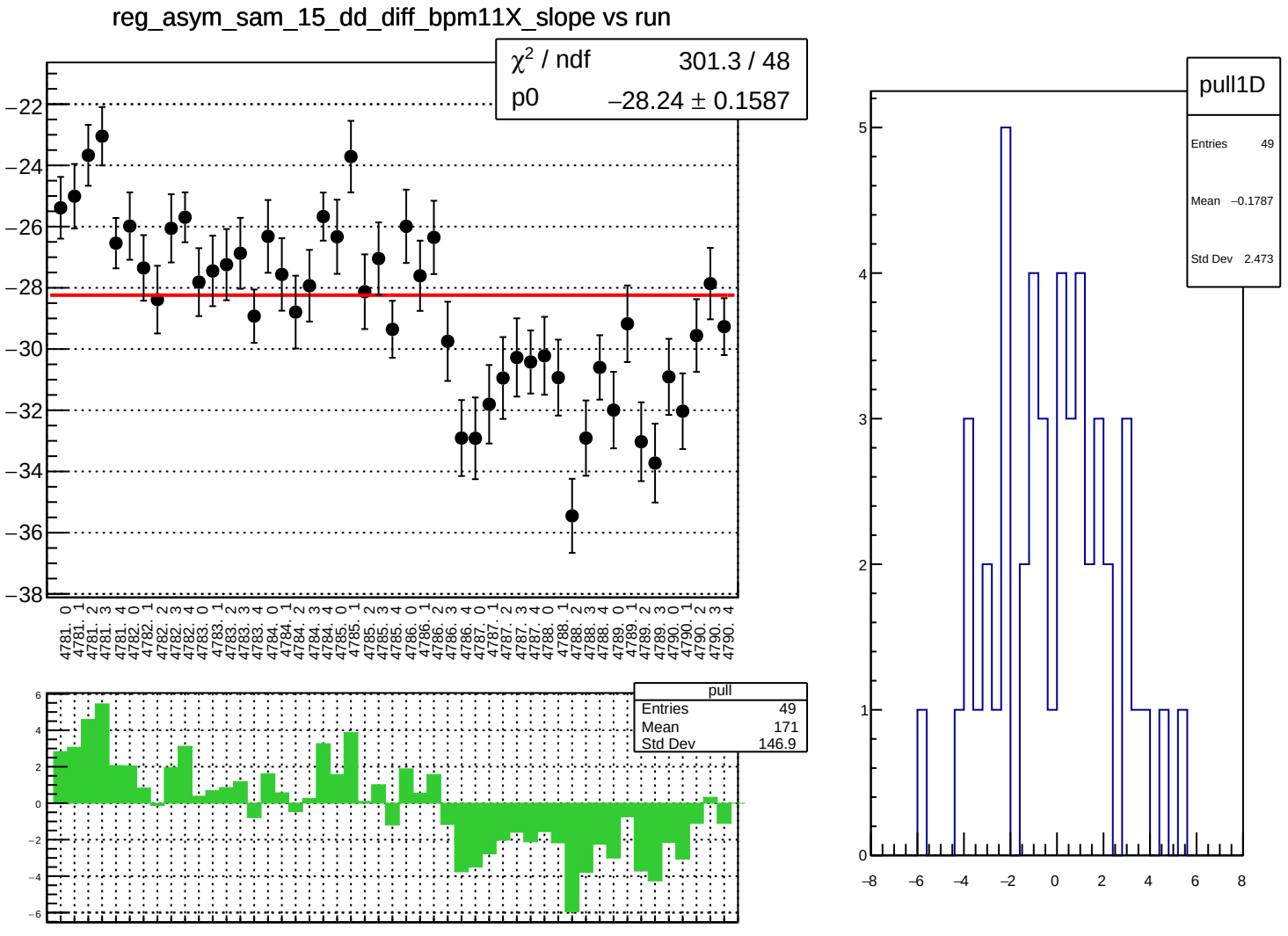

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 50.23 / 48
p0 −61.2 ± 0.5454
pull
Entries 49
Mean 118.9
Std Dev 117.3
pull1D
Entries 49
Mean −0.01473
Std Dev 1.012

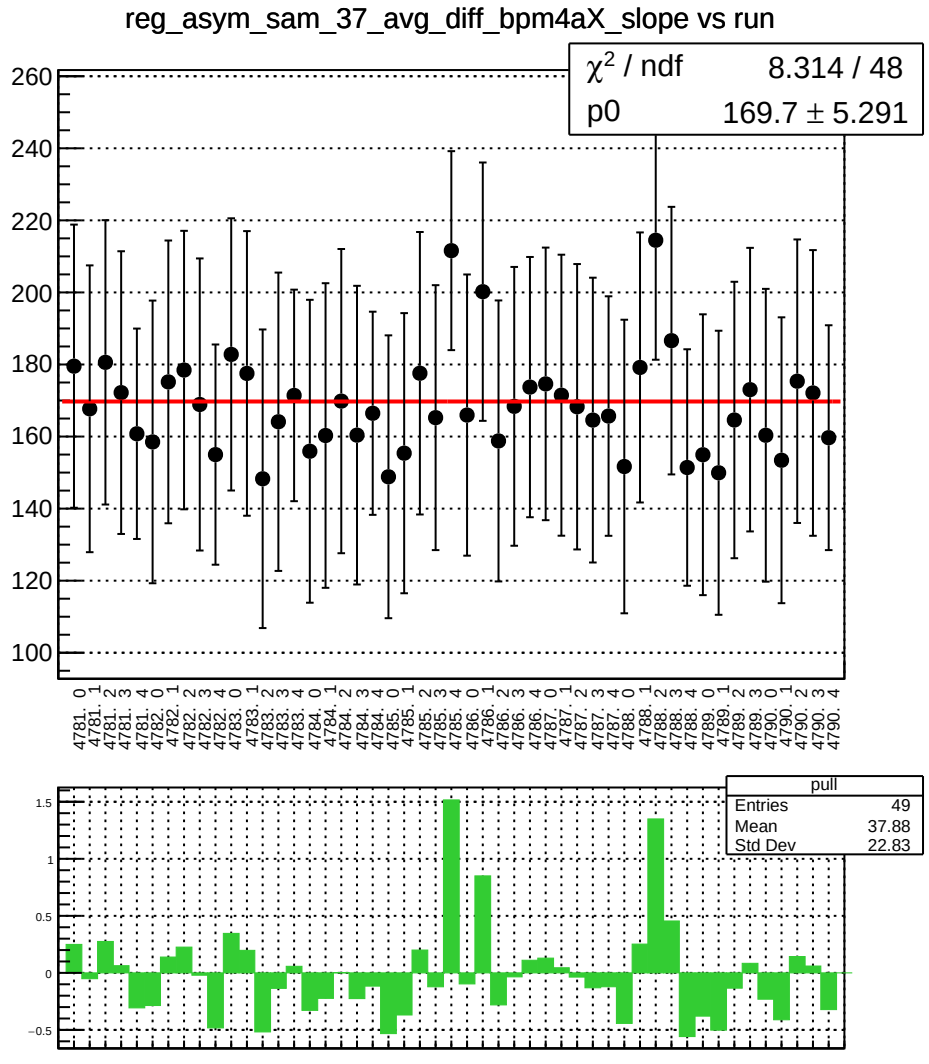

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 69.99 / 48
p0 −78.17 ± 0.6216
pull
Entries 49
Mean 67.04
Std Dev 69.03
pull1D
Entries 49
Mean 0.01029
Std Dev 1.195

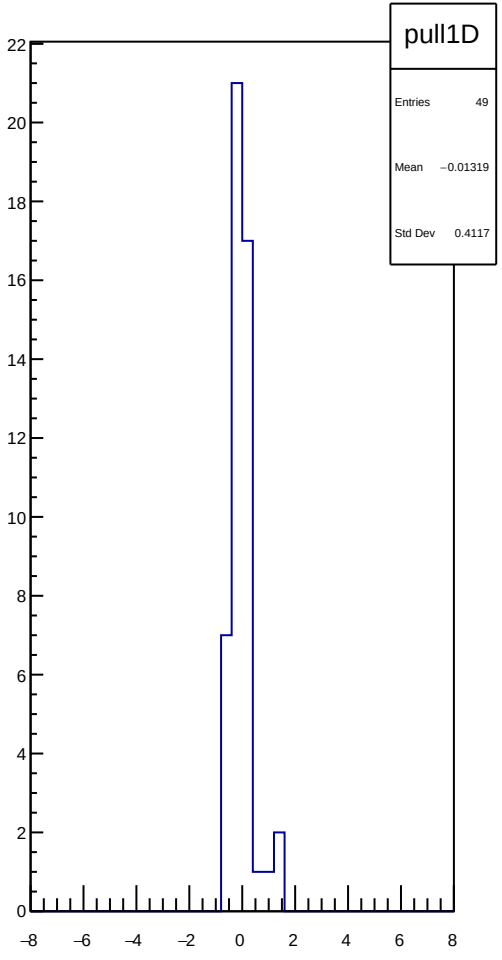

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 509.9 / 48
p0 5.392 ± 0.1053
pull
Entries 49
Mean 250.1
Std Dev 224.4
pull1D
Entries 49
Mean −0.182
Std Dev 3.221

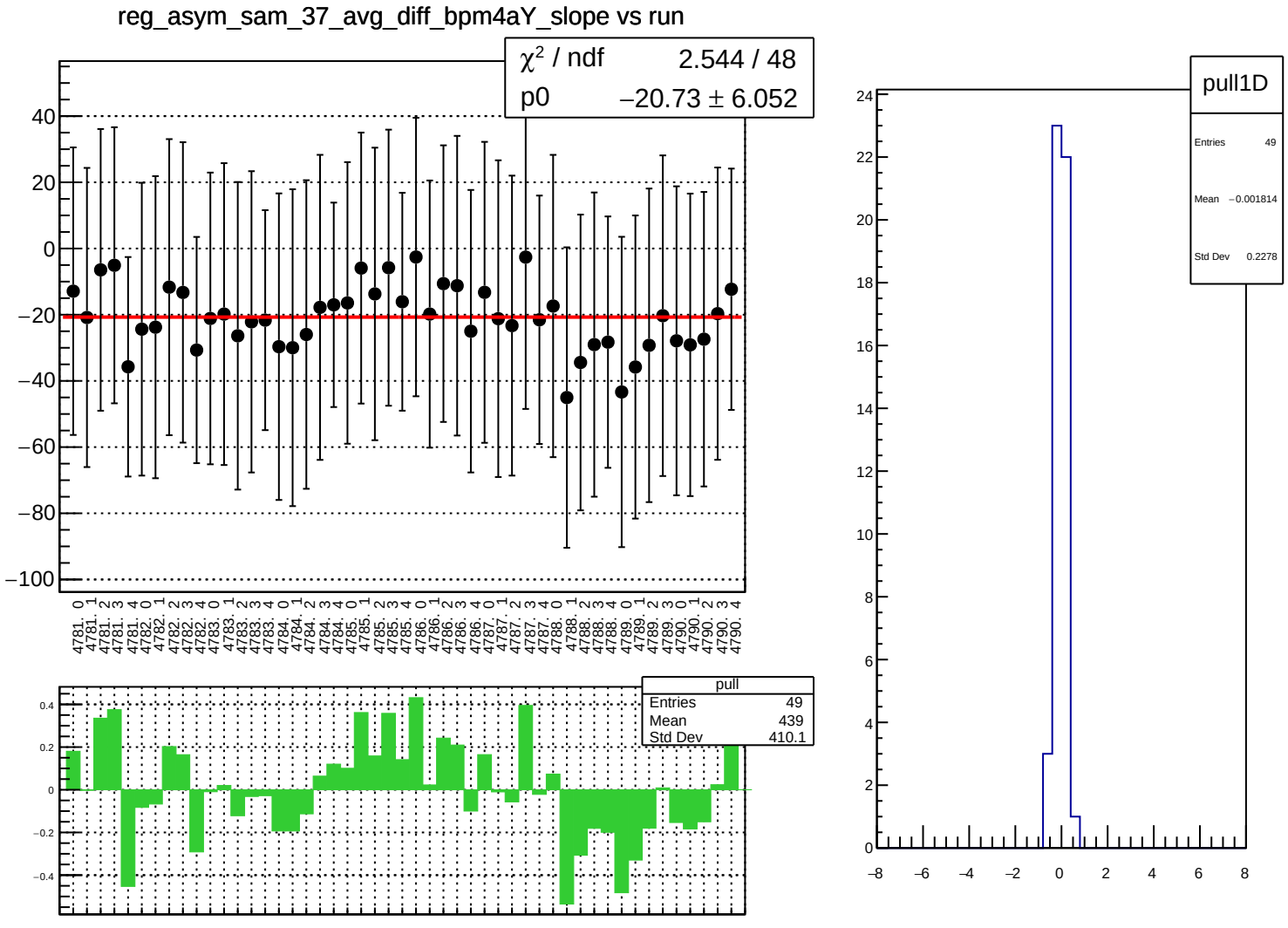

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.25 / 48
p0 39.63 ± 0.7494
pull
Entries 49
Mean 122.4
Std Dev 104.2

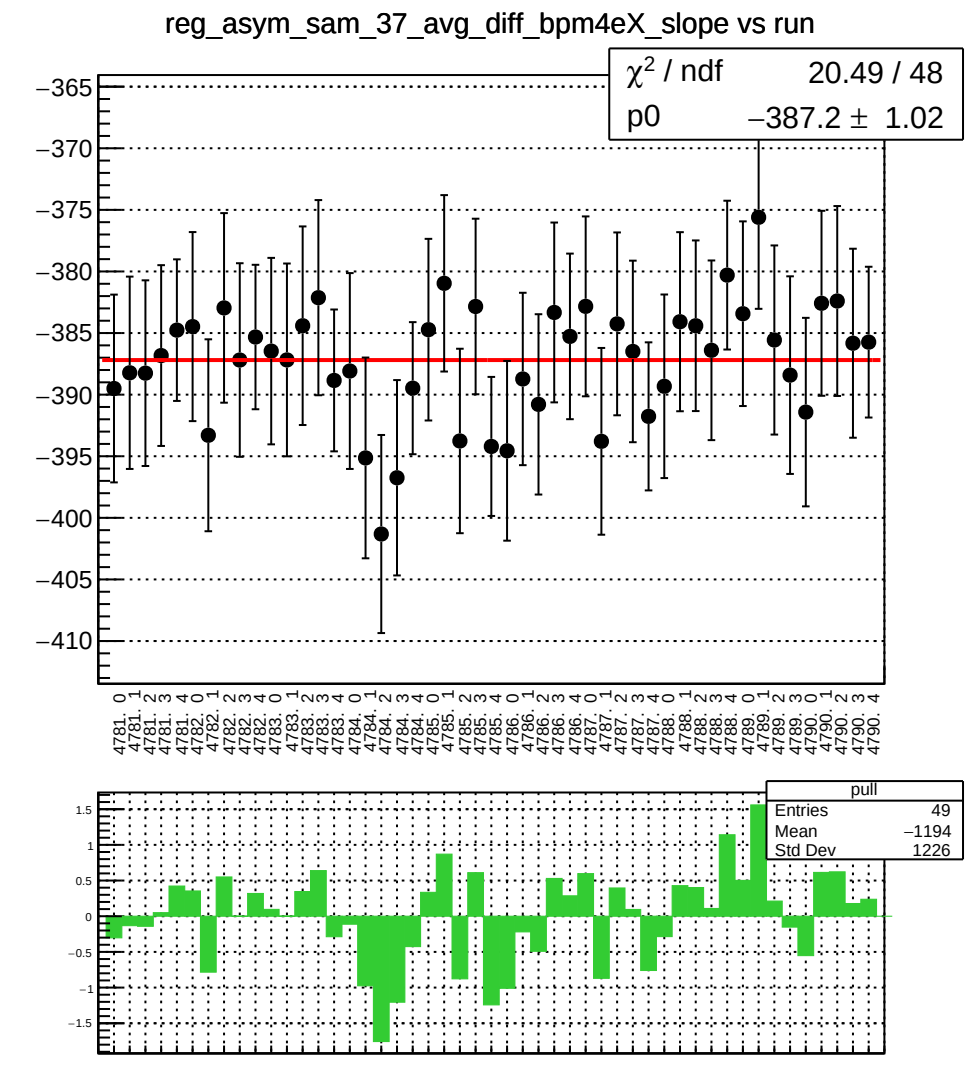

pull1D
Entries 49
Mean 0.05325
Std Dev 1.279

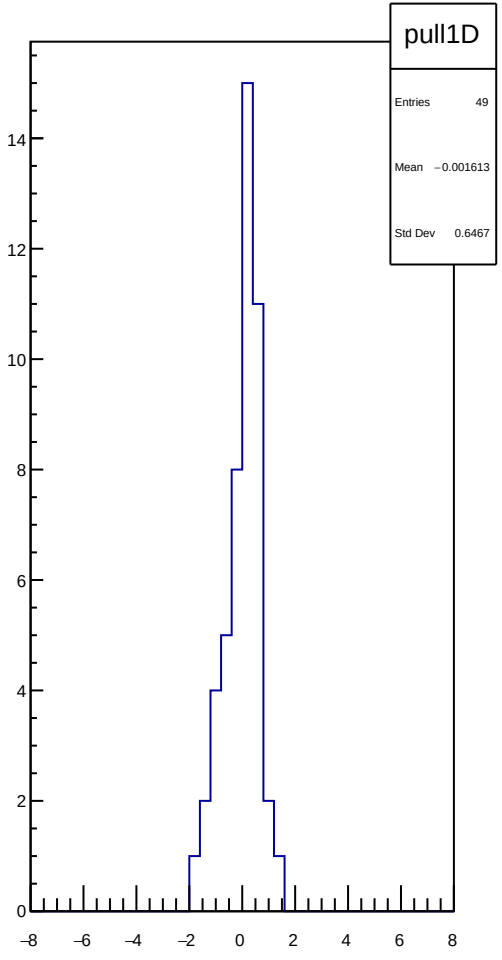

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 301.3 / 48
p0 −28.24 ± 0.1587
pull
Entries 49
Mean 171
Std Dev 146.9
pull1D
Entries 49
Mean −0.1787
Std Dev 2.473

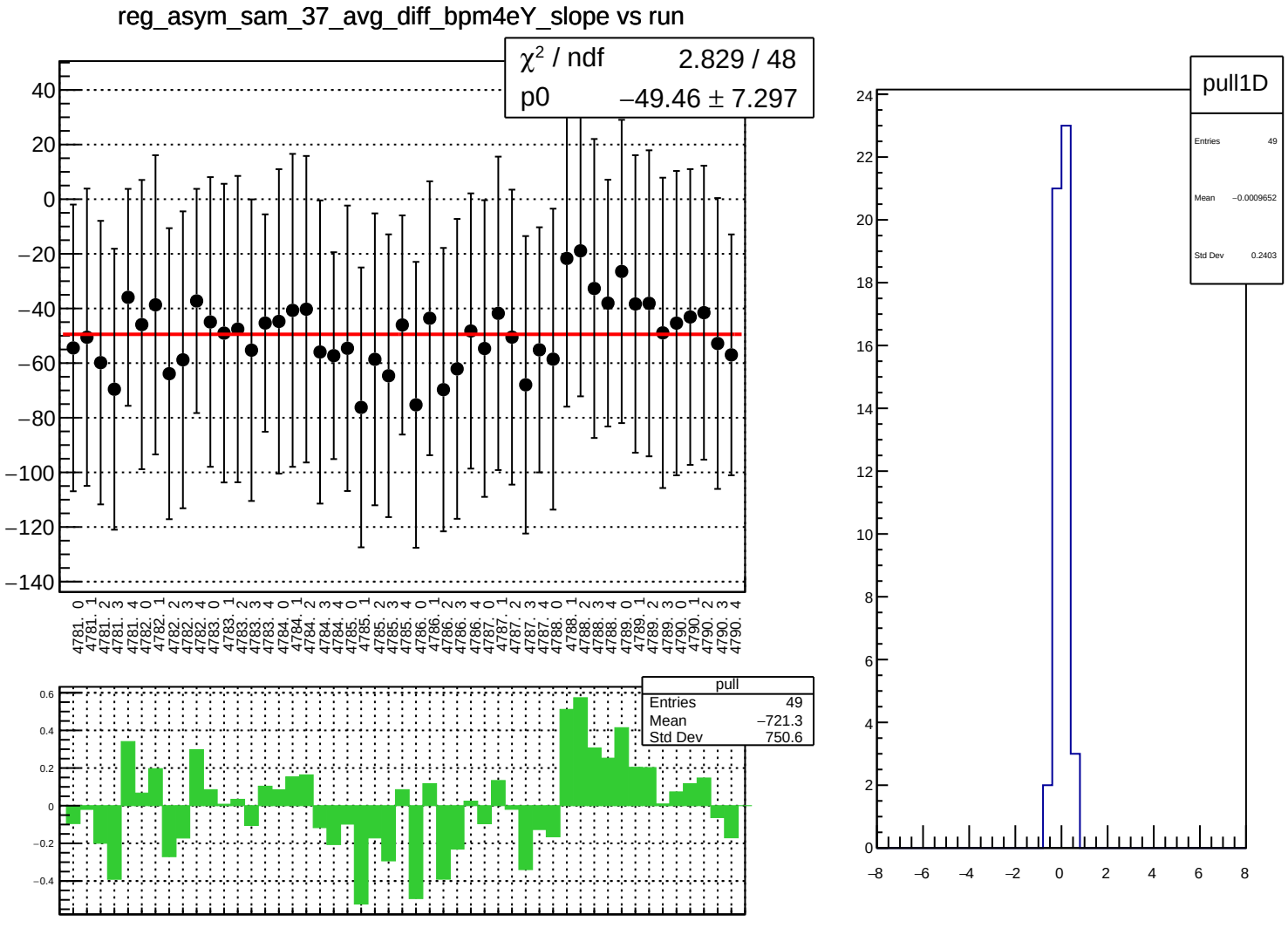

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 8.314 / 48
p0 169.7 ± 5.291
pull
Entries 49
Mean 37.88
Std Dev 22.83

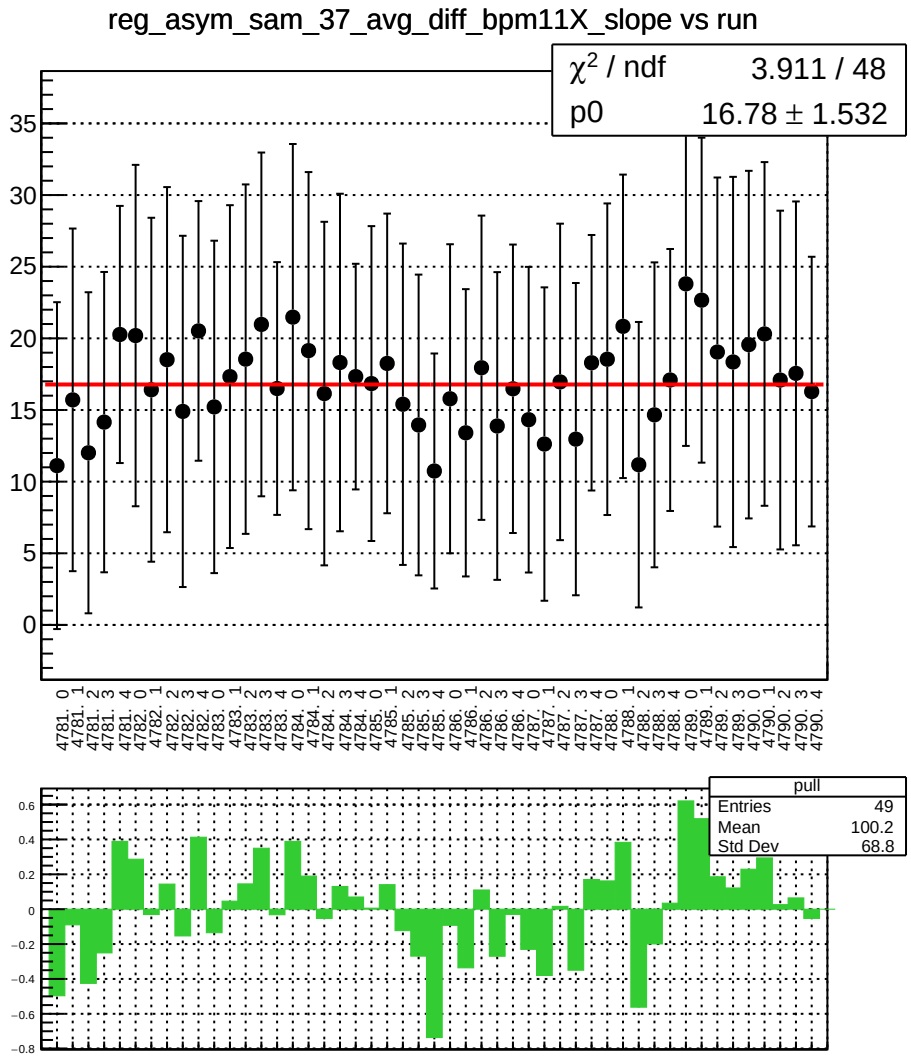

pull1D
Entries 49
Mean −0.01319
Std Dev 0.4117

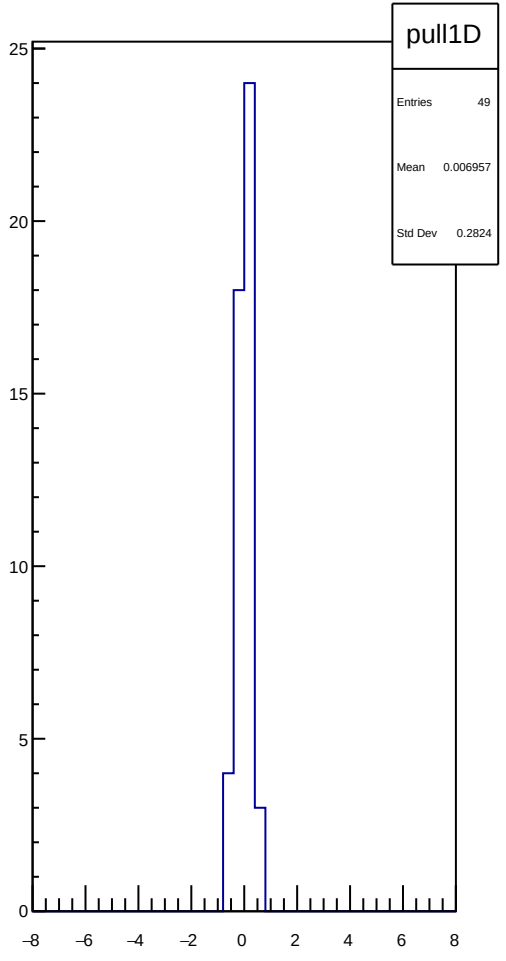

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.544 / 48
p0 −20.73 ± 6.052
pull
Entries 49
Mean 439
Std Dev 410.1
pull1D
Entries 49
Mean −0.001814
Std Dev 0.2278

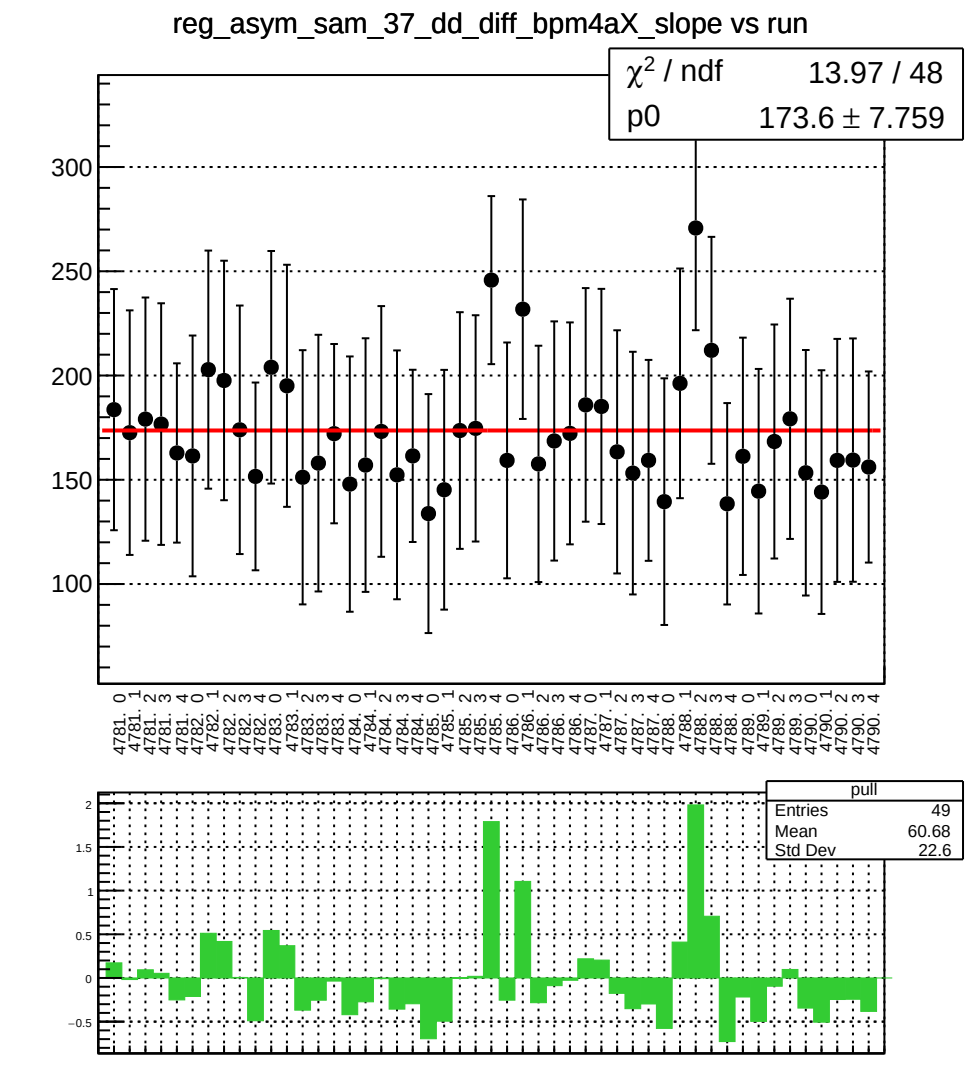

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.49 / 48
p0 −387.2 ± 1.02
pull
Entries 49
Mean −1194
Std Dev 1226

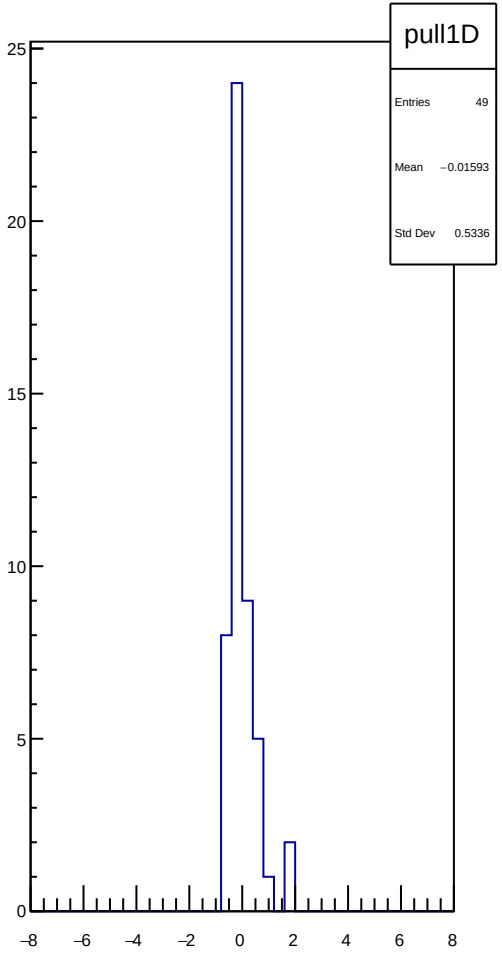

pull1D
Entries 49
Mean −0.001613
Std Dev 0.6467

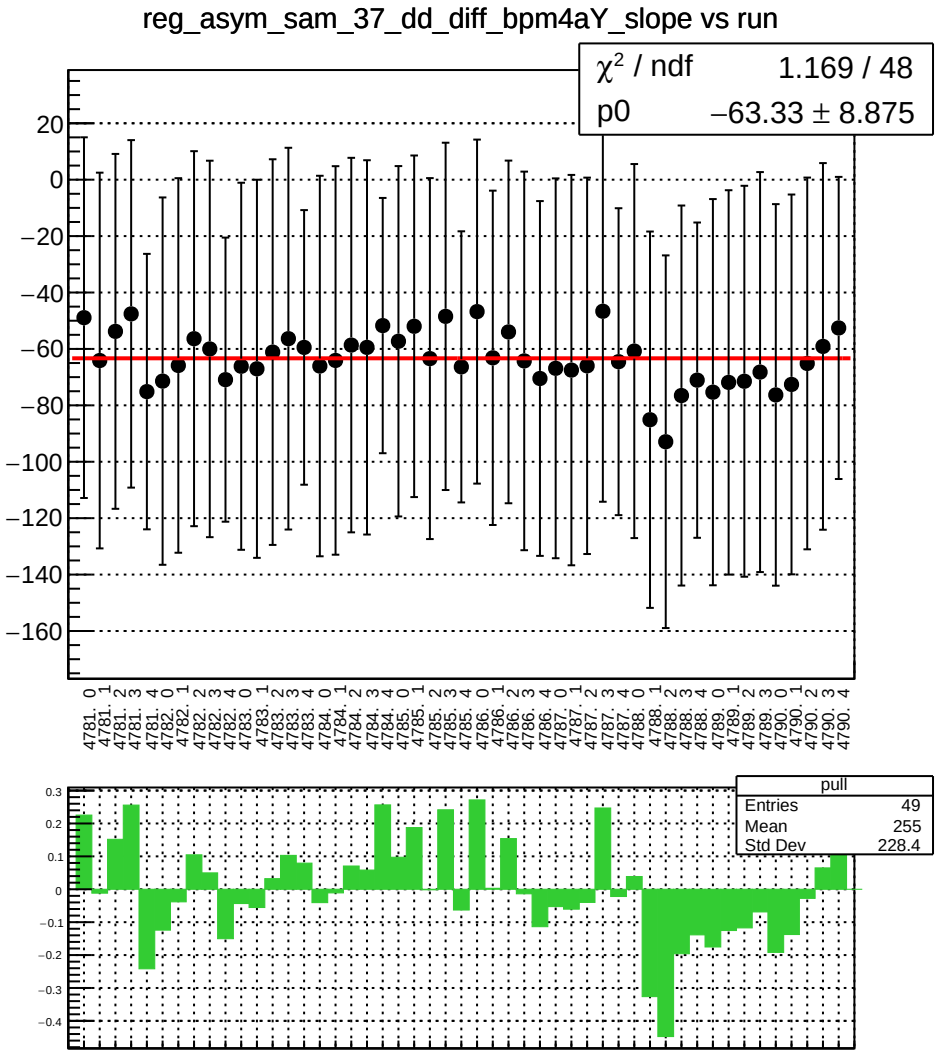

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.829 / 48
p0 −49.46 ± 7.297
pull
Entries 49
Mean −721.3
Std Dev 750.6
pull1D
Entries 49
Mean −0.0009652
Std Dev 0.2403

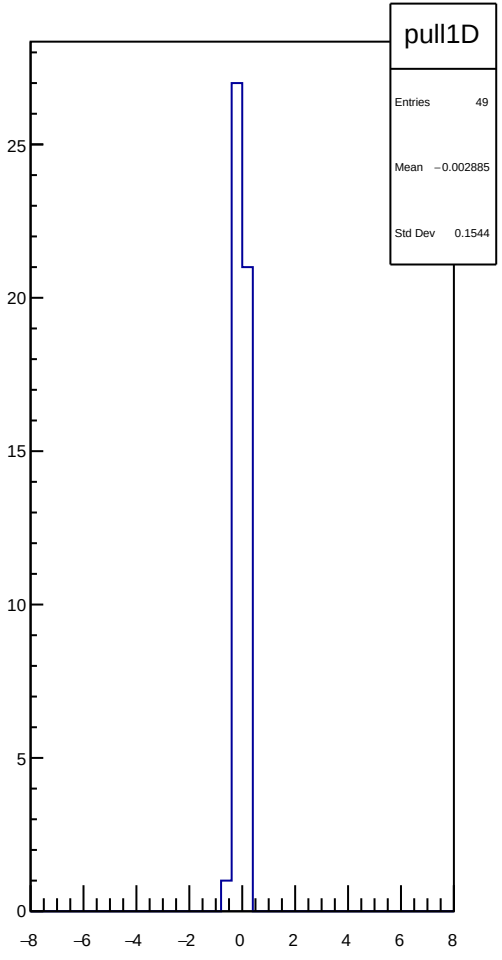

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 3.911 / 48
p0 16.78 ± 1.532
pull
Entries 49
Mean 100.2
Std Dev 68.8

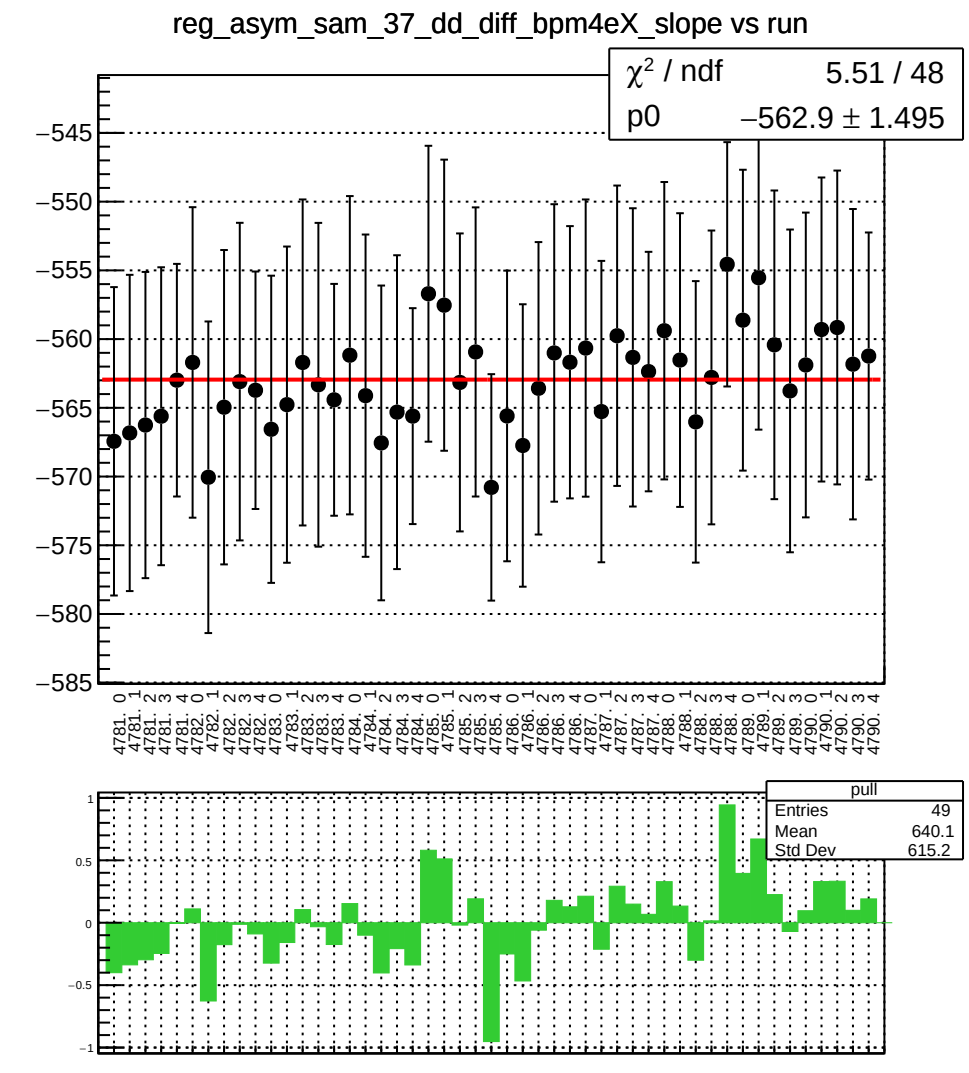

pull1D
Entries 49
Mean 0.006957
Std Dev 0.2824

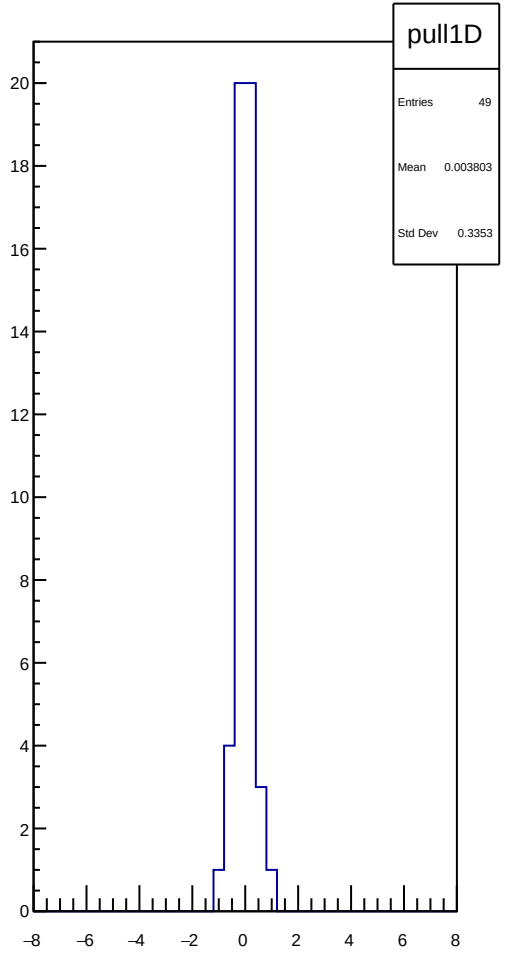

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 13.97 / 48
p0 173.6 ± 7.759
300
250
200
150
100
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 60.68
Std Dev 22.6
2
1.5
1
0.5
0
−0.5

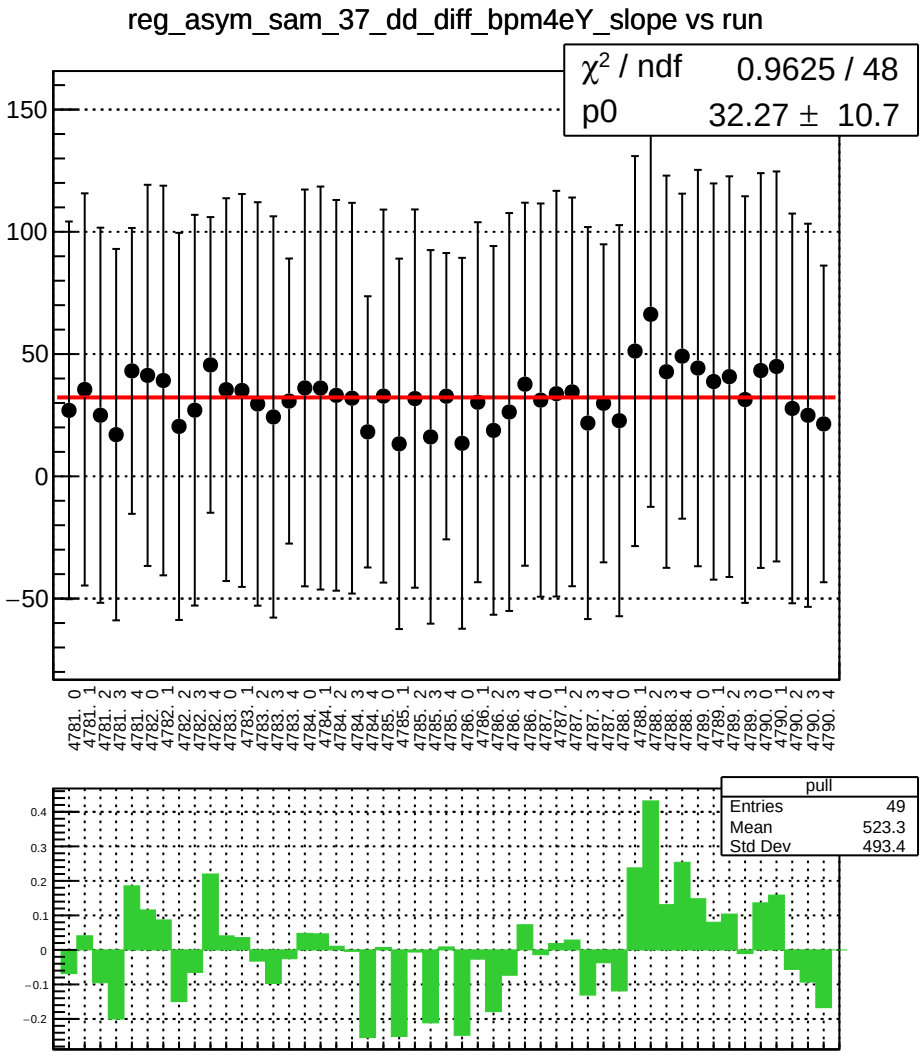

pull1D
Entries 49
Mean −0.01593
Std Dev 0.5336
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

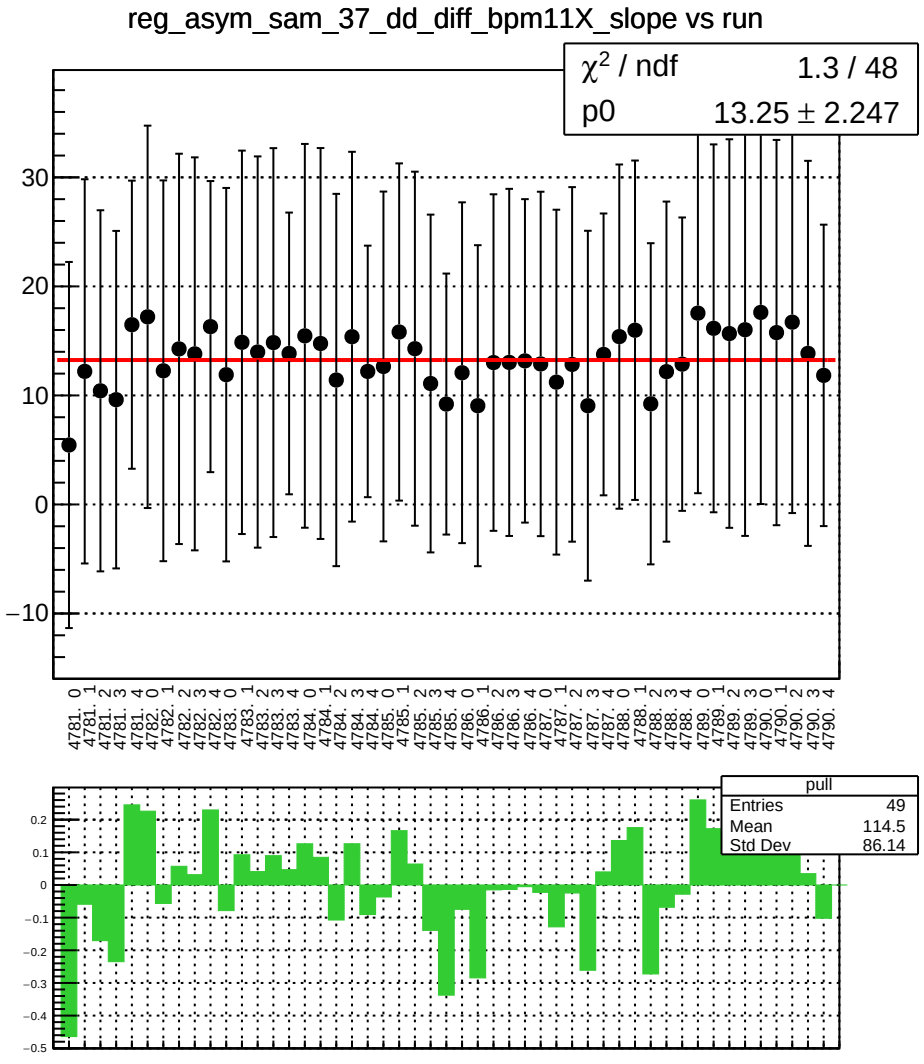

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.169 / 48
p0 −63.33 ± 8.875
pull
Entries 49
Mean 255
Std Dev 228.4

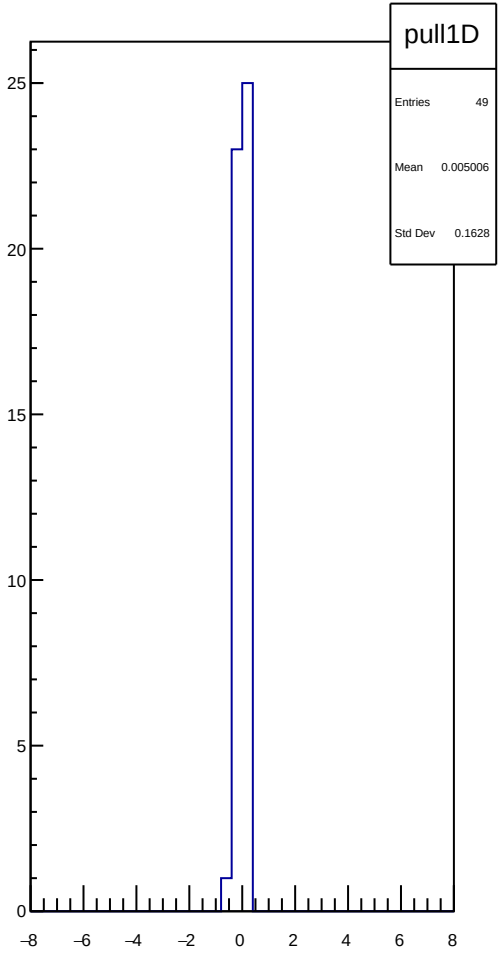

pull1D
Entries 49
Mean −0.002885
Std Dev 0.1544

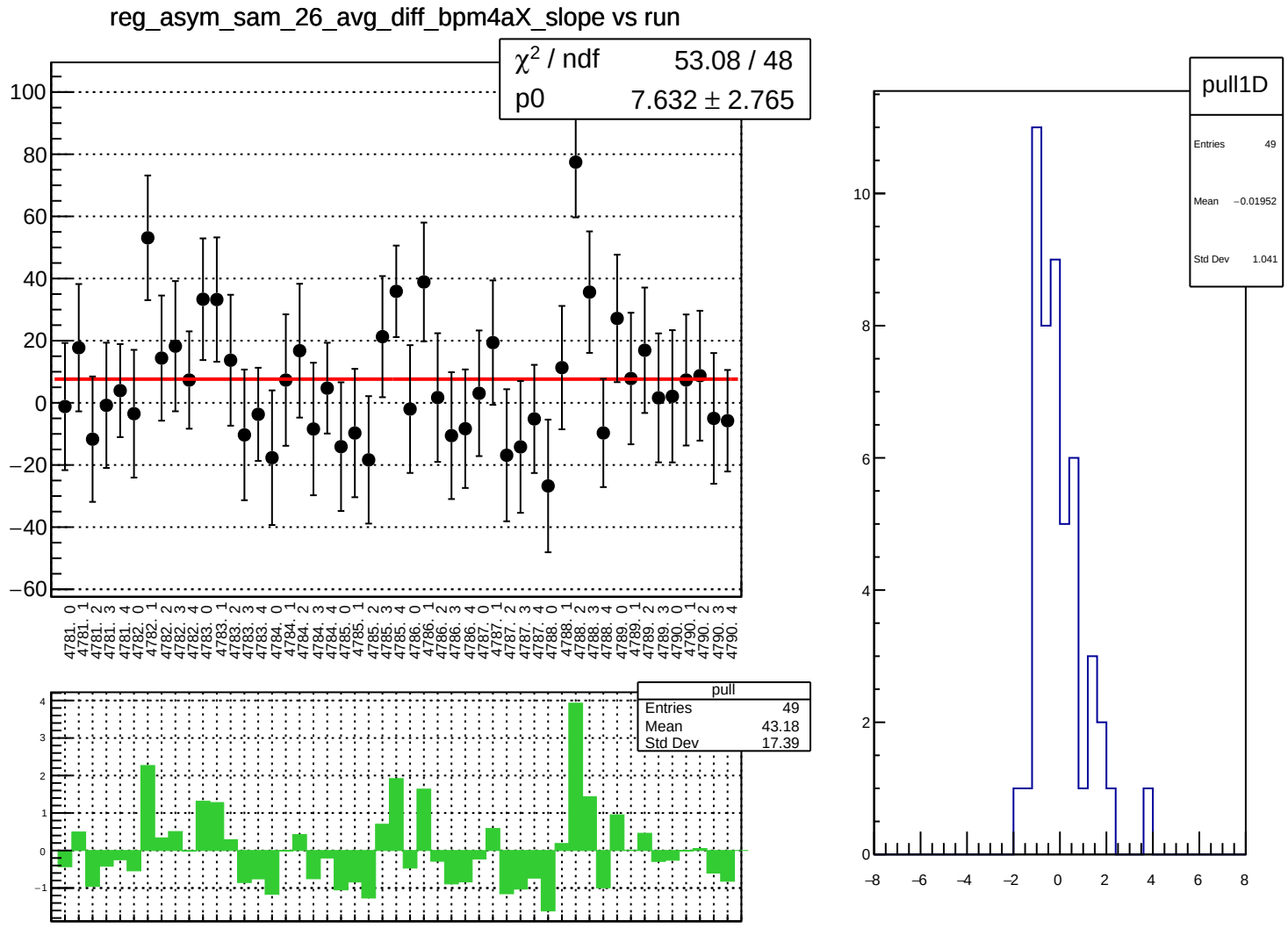

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.51 / 48
p0 −562.9 ± 1.495
pull
Entries 49
Mean 640.1
Std Dev 615.2

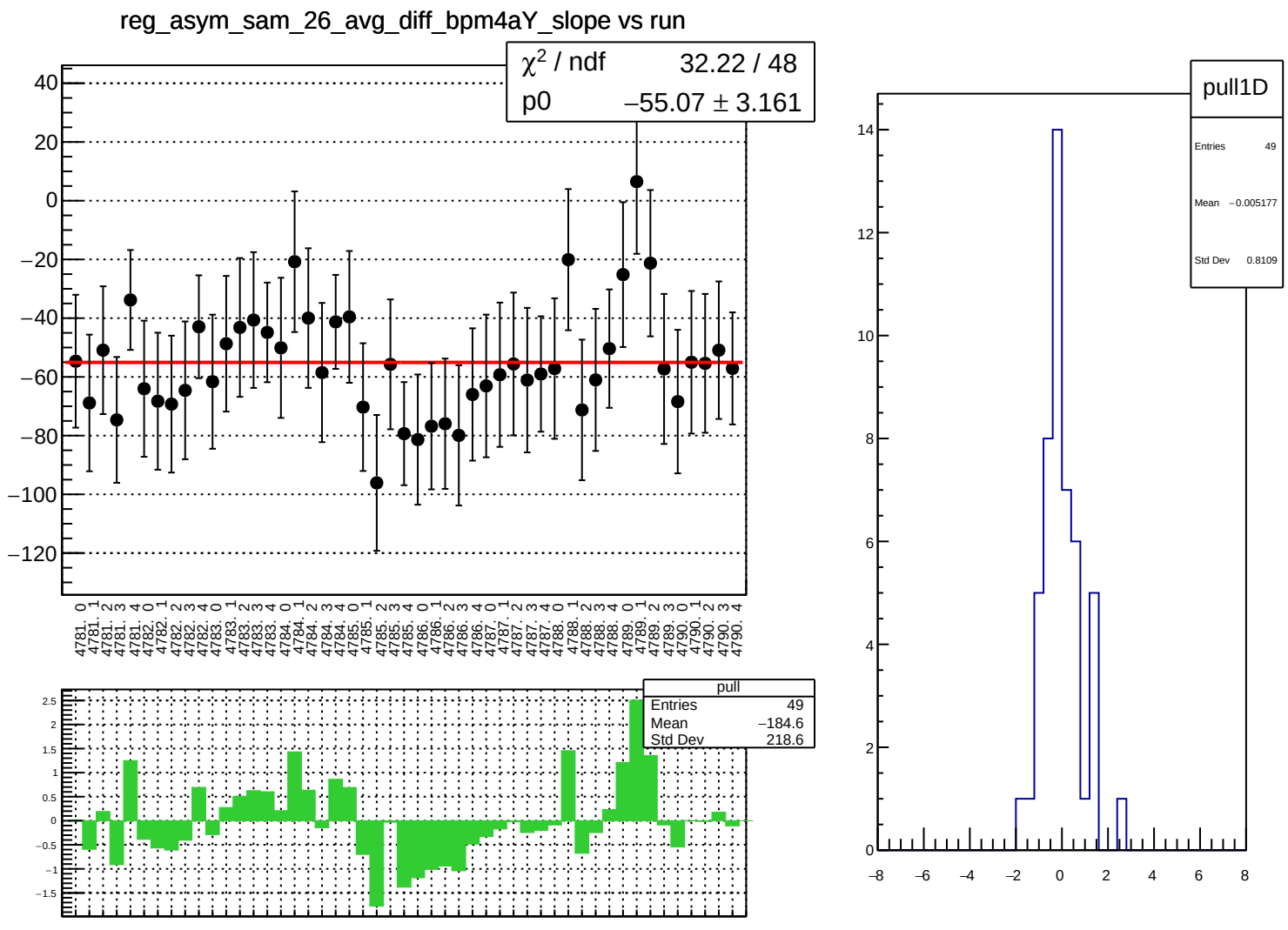

pull1D
Entries 49
Mean 0.003803
Std Dev 0.3353

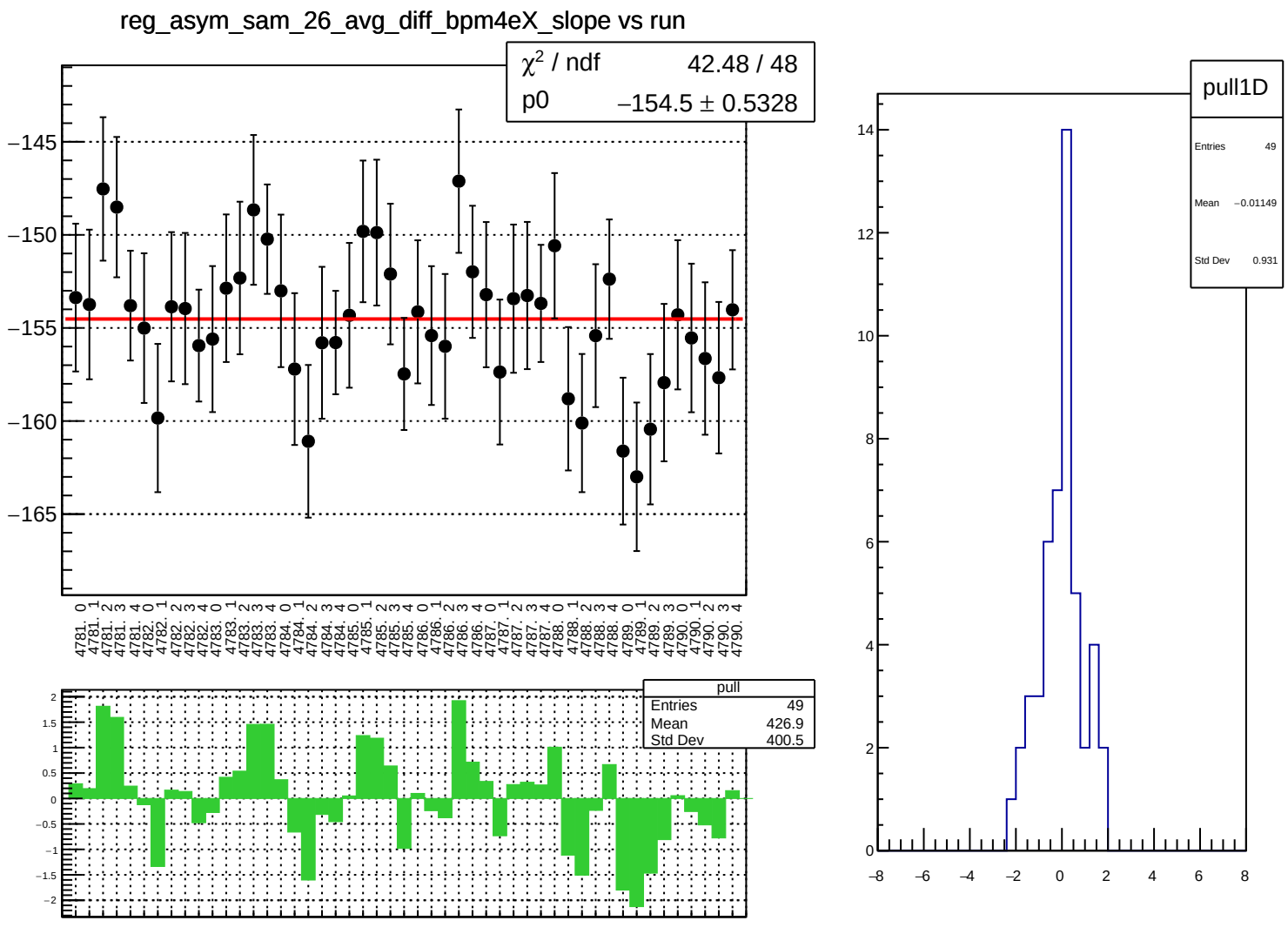

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.9625 / 48
p0 32.27 ± 10.7
150
100
50
0
−50
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 523.3
Std Dev 493.4
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 49
Mean 0.0006828
Std Dev 0.1402
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

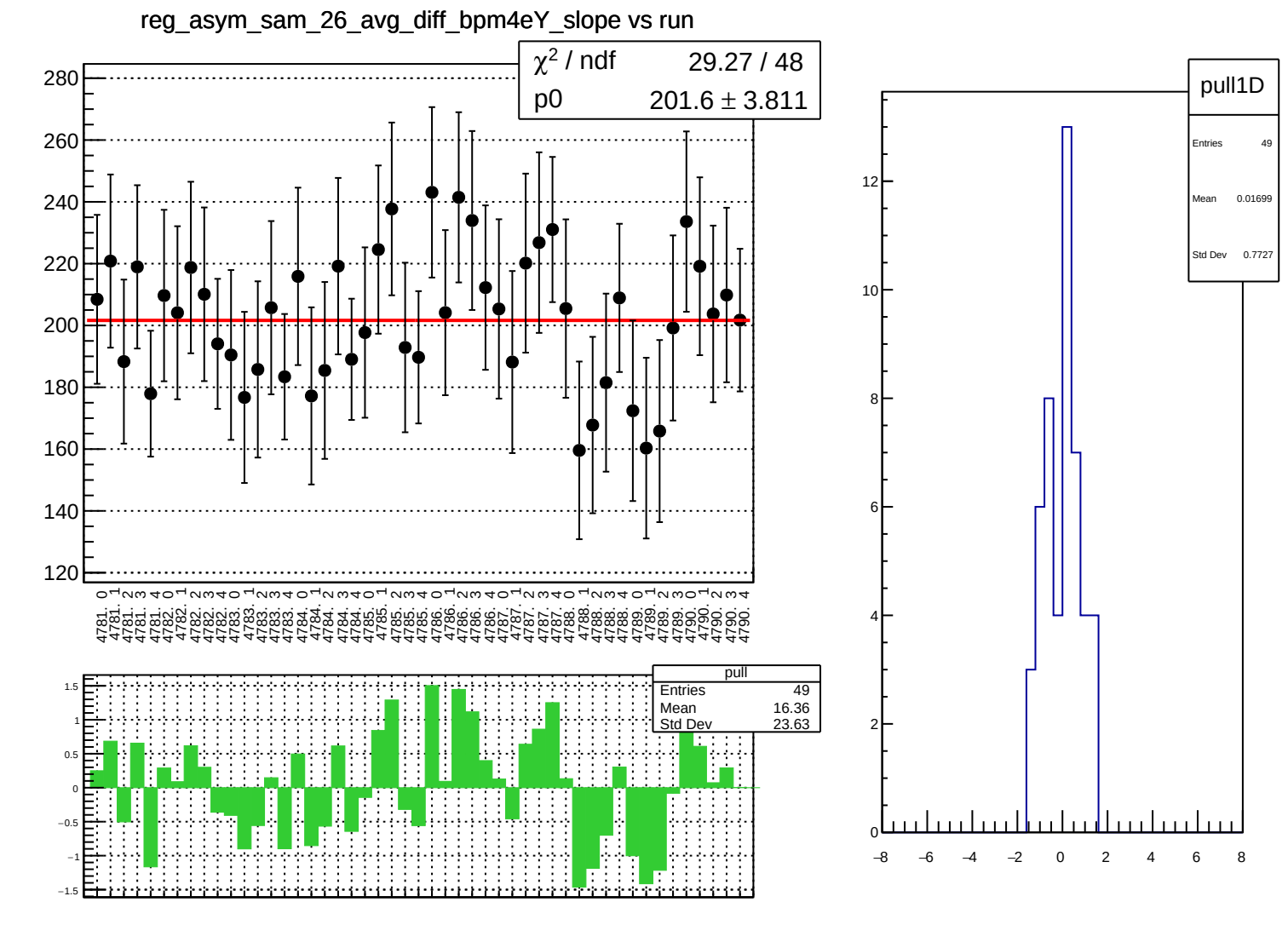

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 1.3 / 48
p0 13.25 ± 2.247
pull
Entries 49
Mean 114.5
Std Dev 86.14

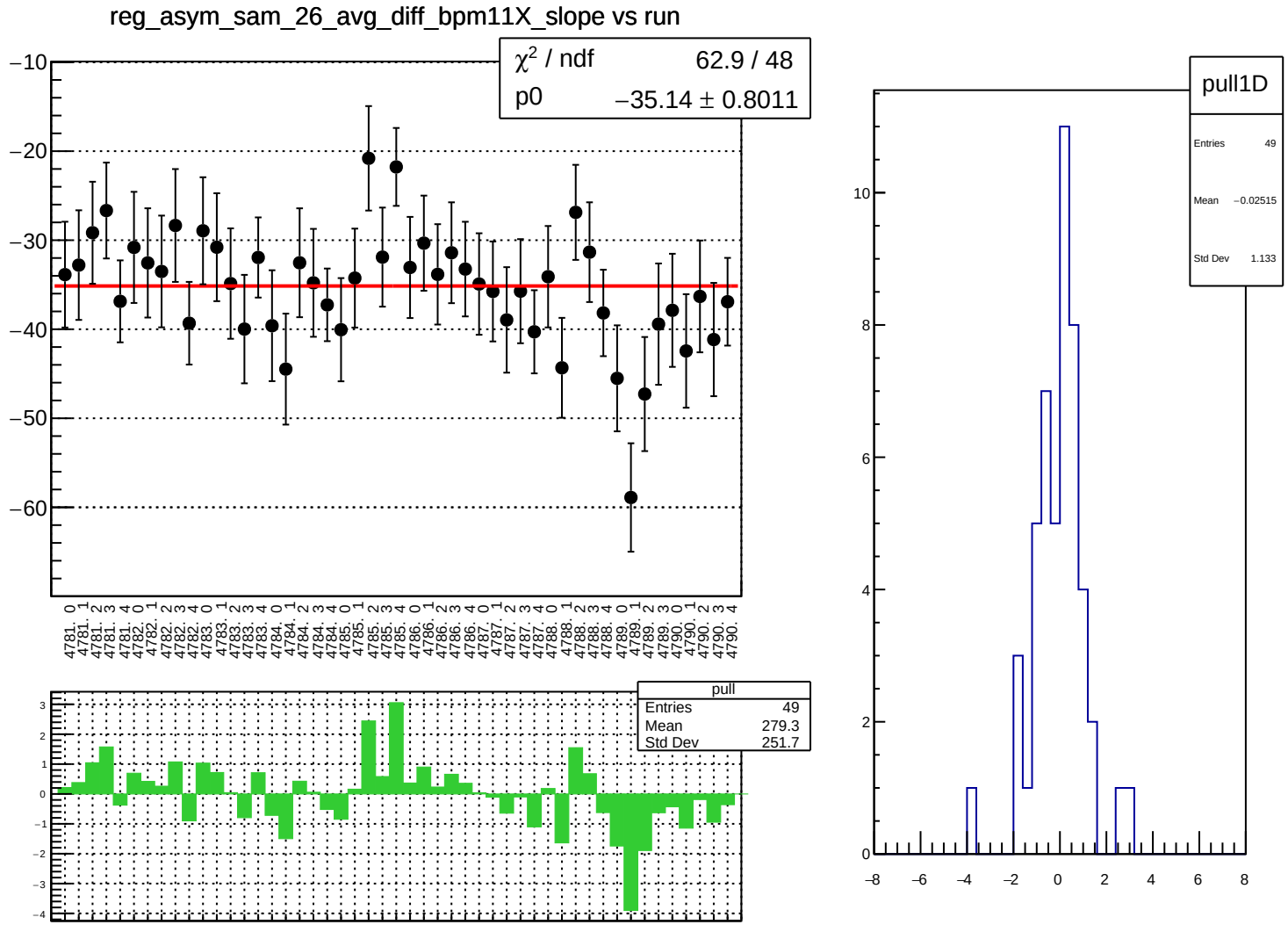

pull1D
Entries 49
Mean 0.005006
Std Dev 0.1628

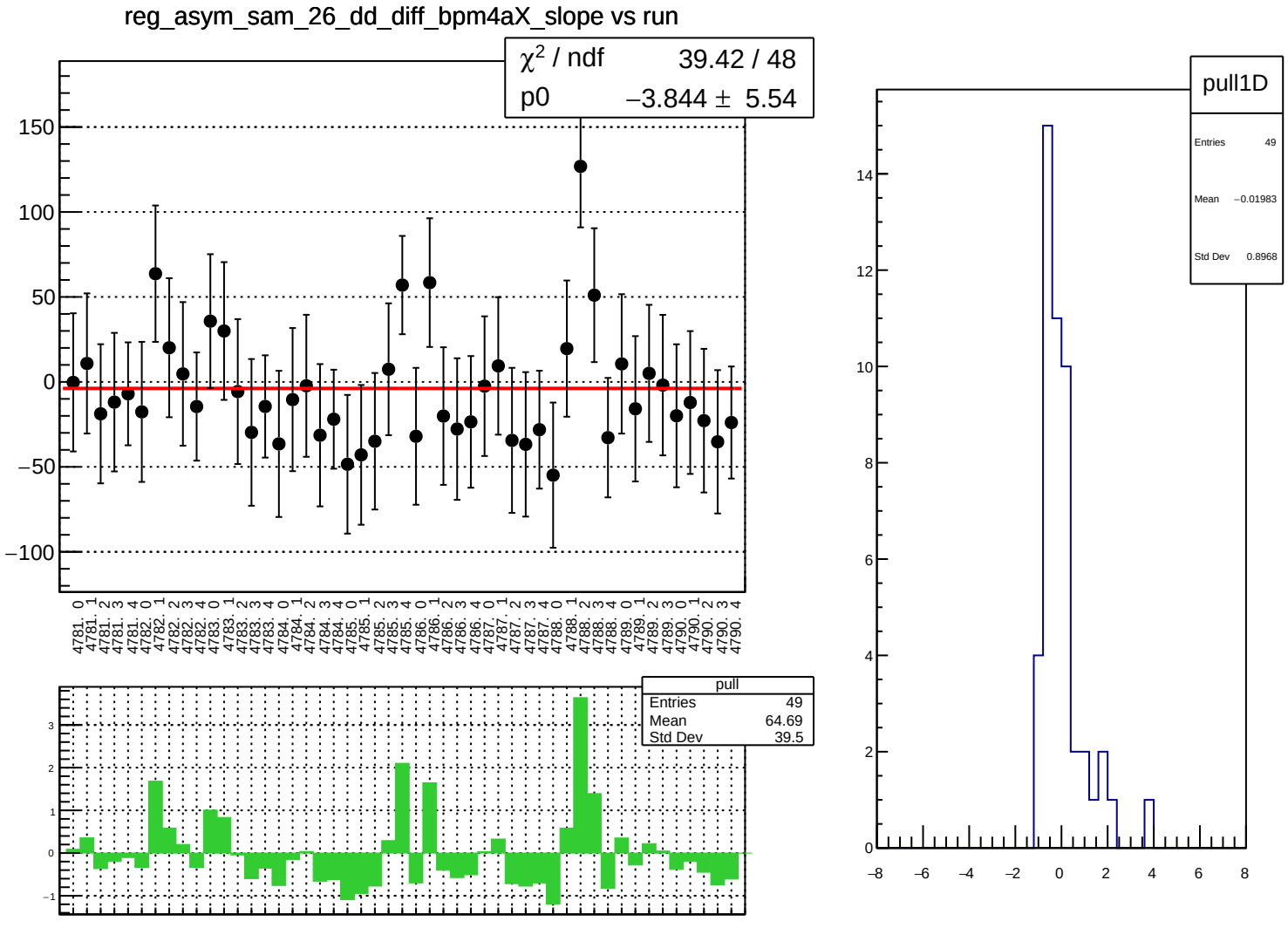

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 53.08 / 48
p0 7.632 ± 2.765
pull
Entries 49
Mean 43.18
Std Dev 17.39
pull1D
Entries 49
Mean −0.01952
Std Dev 1.041

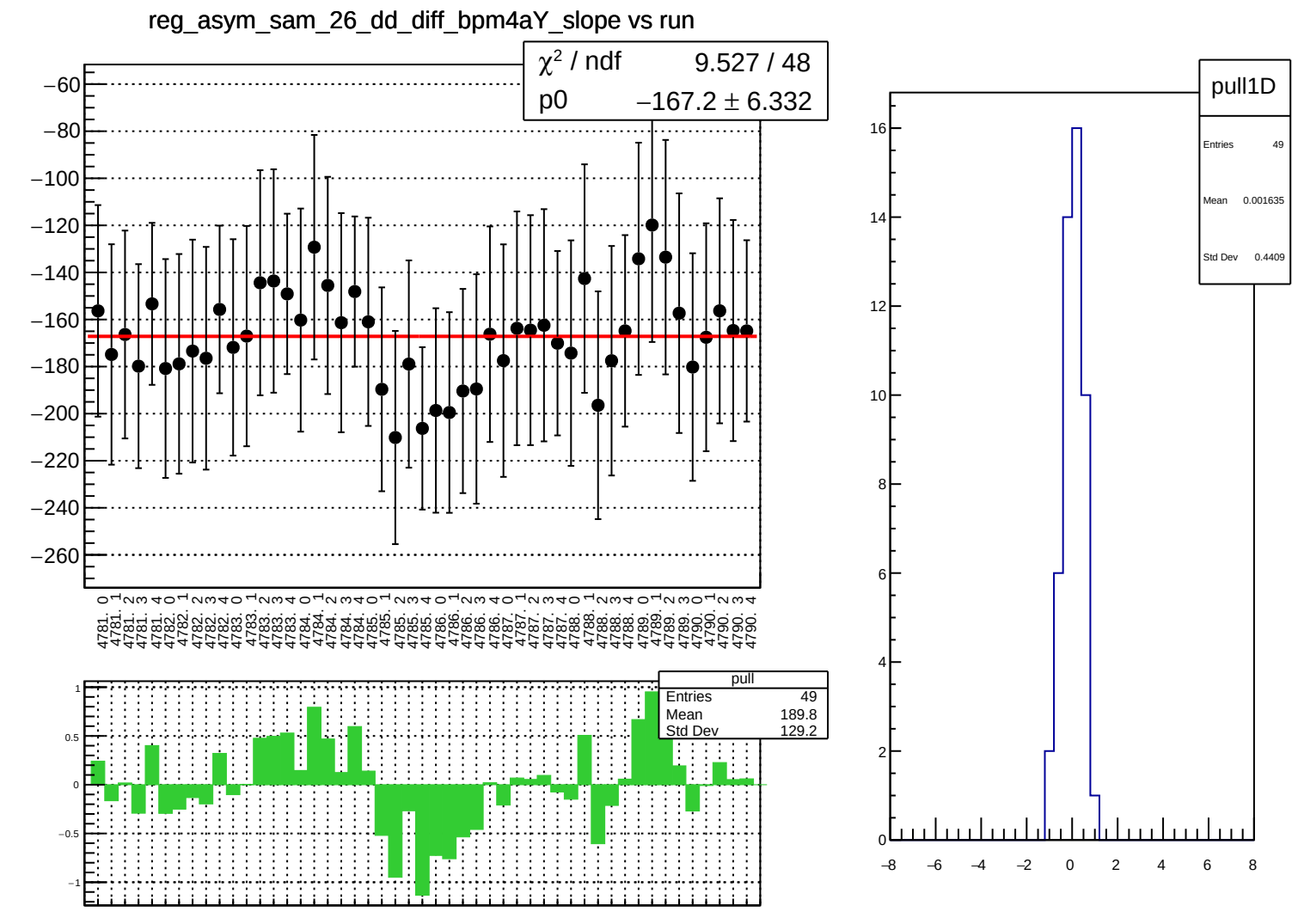

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 32.22 / 48
p0 −55.07 ± 3.161
pull
Entries 49
Mean −184.6
Std Dev 218.6
pull1D
Entries 49
Mean −0.005177
Std Dev 0.8109

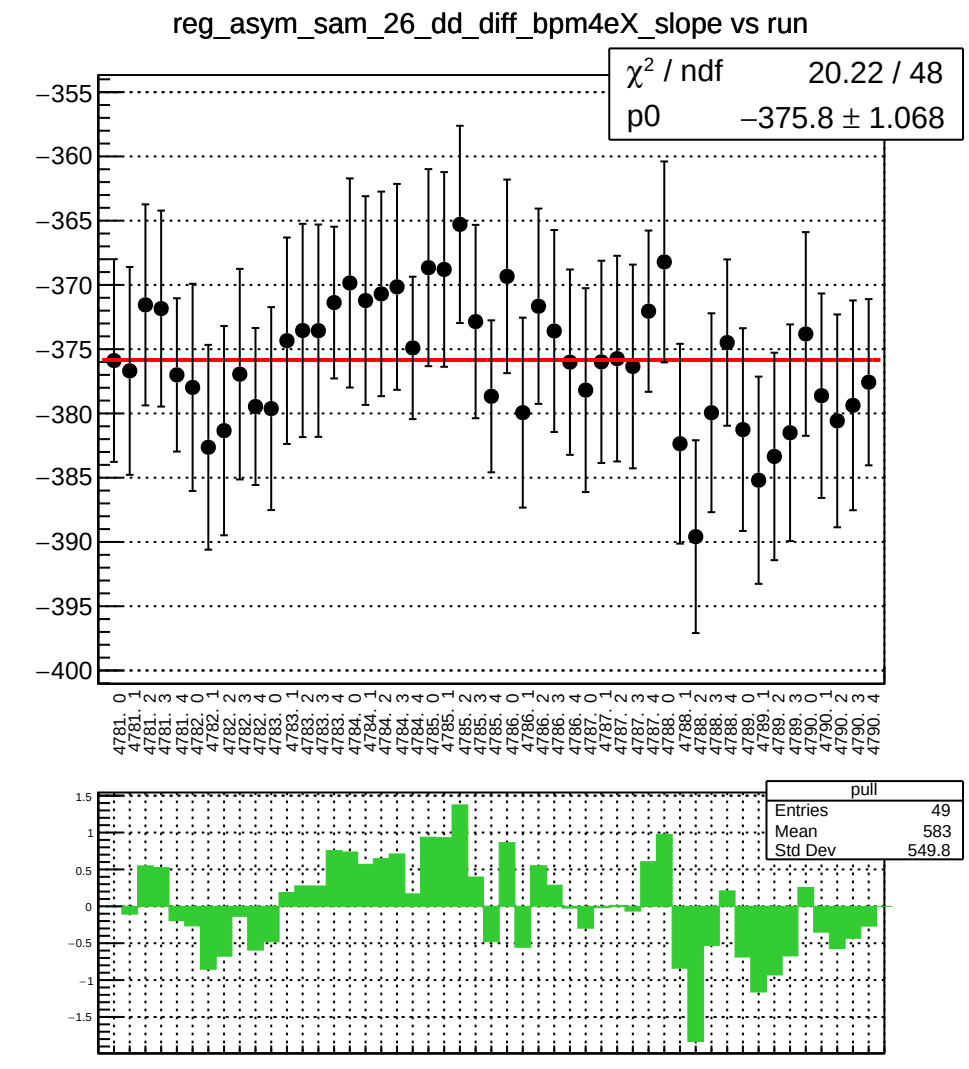

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.48 / 48
p0 −154.5 ± 0.5328
−145
−150
−155
−160
−165
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 426.9
Std Dev 400.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean −0.01149
Std Dev 0.931
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

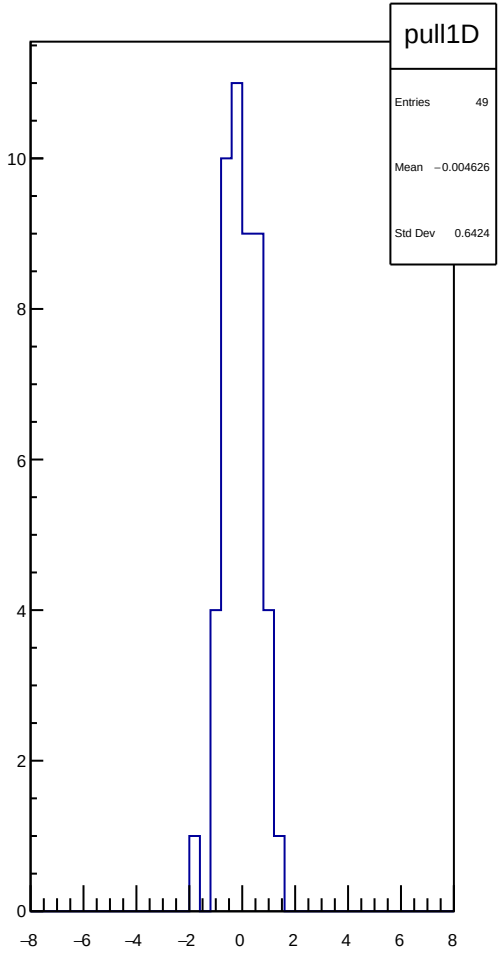

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.27 / 48
p0 201.6 ± 3.811
pull
Entries 49
Mean 16.36
Std Dev 23.63
pull1D
Entries 49
Mean 0.01699
Std Dev 0.7727

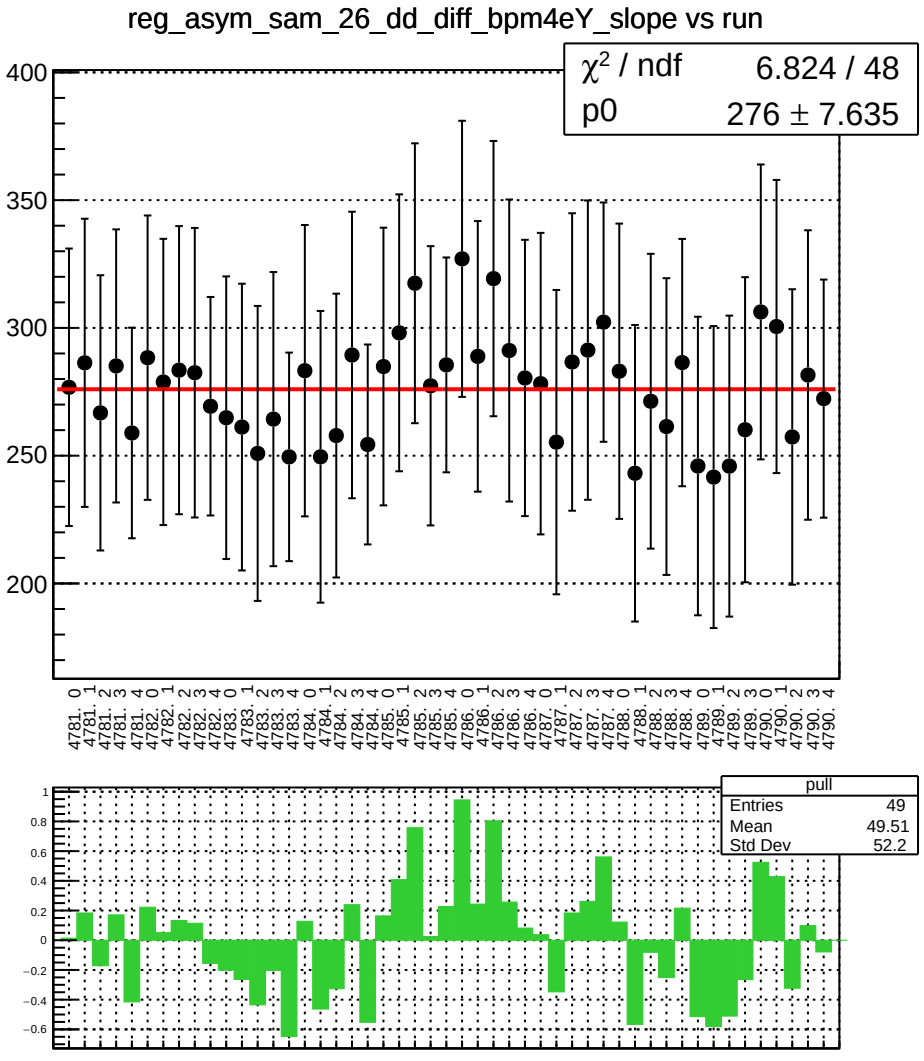

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 62.9 / 48
p0 −35.14 ± 0.8011
pull
Entries 49
Mean 279.3
Std Dev 251.7
pull1D
Entries 49
Mean −0.02515
Std Dev 1.133

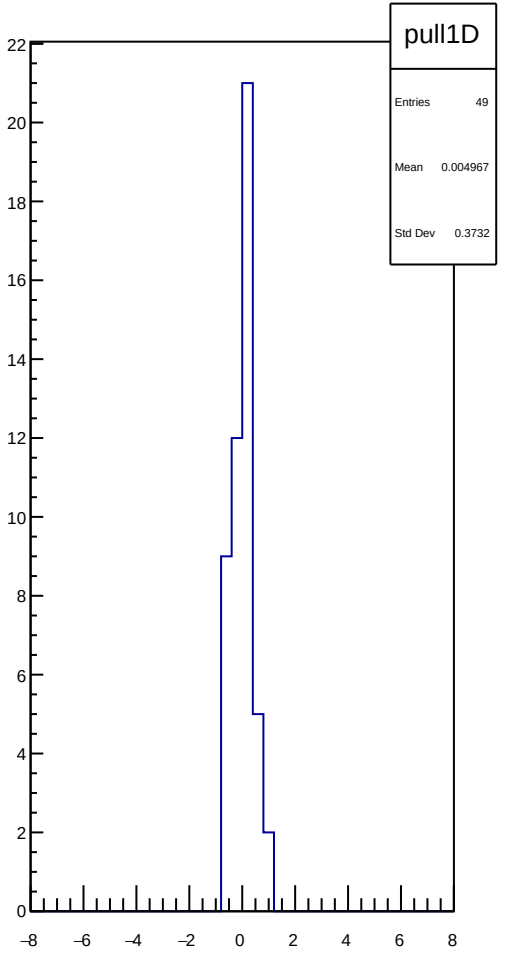

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 39.42 / 48
p0 −3.844 ± 5.54
150
100
50
0
−50
−100
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 64.69
Std Dev 39.5
3
2
1
0
−1
pull1D
Entries 49
Mean −0.01983
Std Dev 0.8968
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

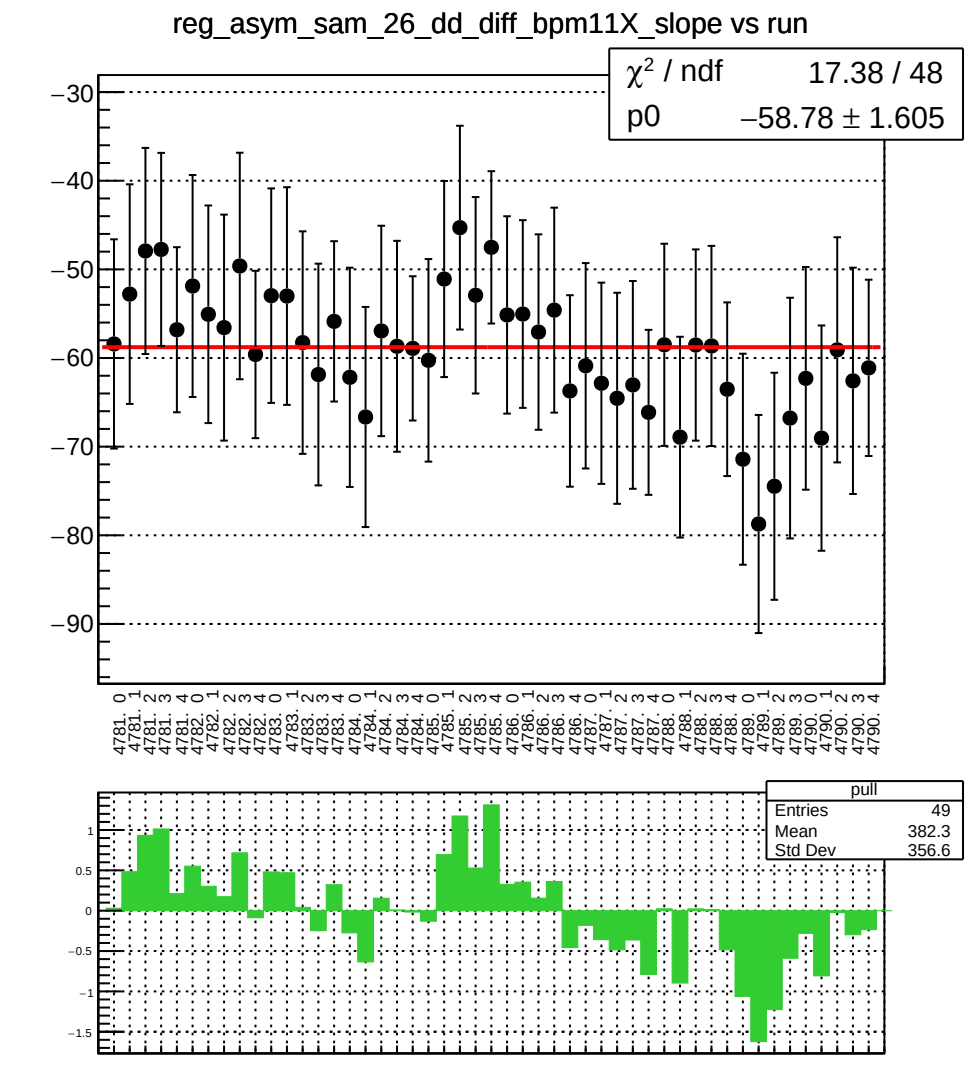

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.527 / 48
p0 −167.2 ± 6.332
pull
Entries 49
Mean 189.8
Std Dev 129.2
pull1D
Entries 49
Mean 0.001635
Std Dev 0.4409

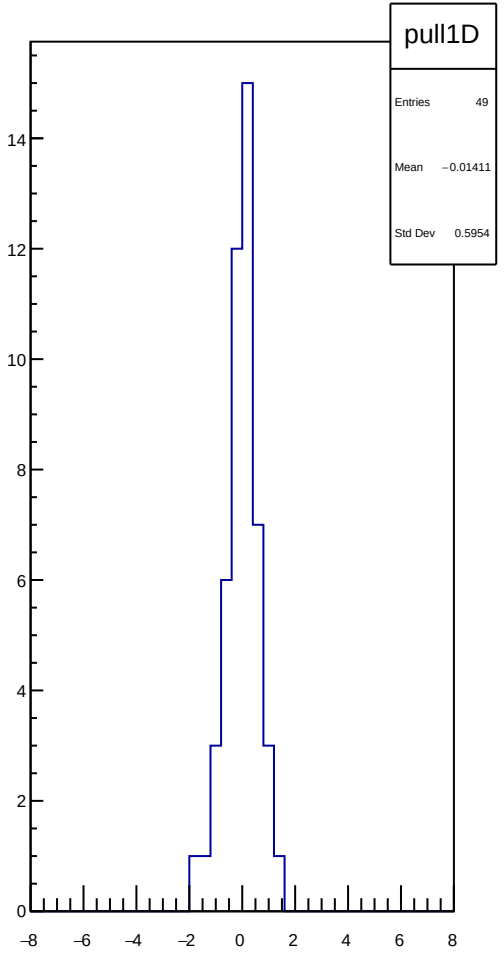

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.22 / 48
p0 −375.8 ± 1.068
pull
Entries 49
Mean 583
Std Dev 549.8

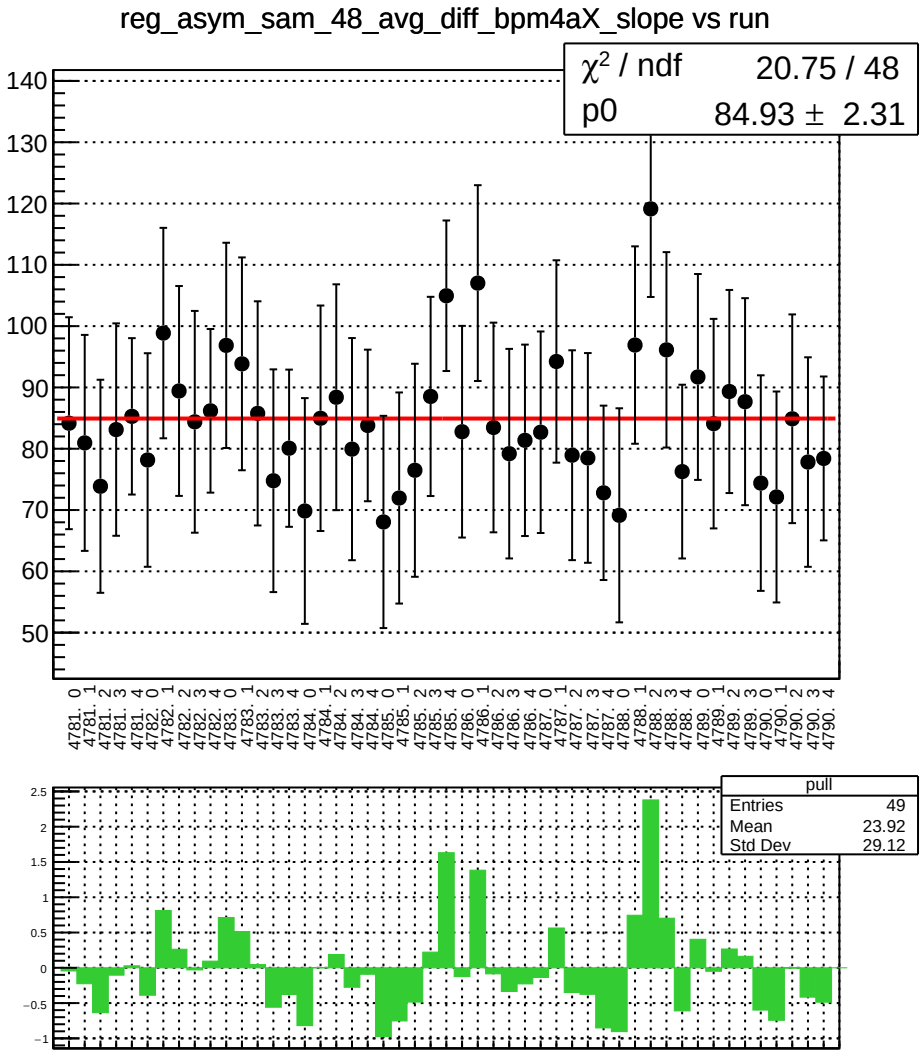

pull1D
Entries 49
Mean −0.004626
Std Dev 0.6424

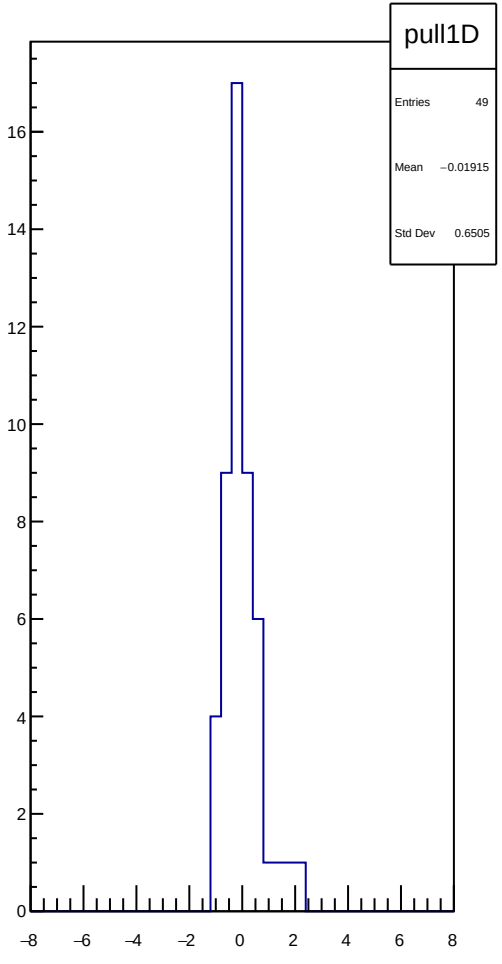

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.824 / 48
p0 276 ± 7.635
pull
Entries 49
Mean 49.51
Std Dev 52.2

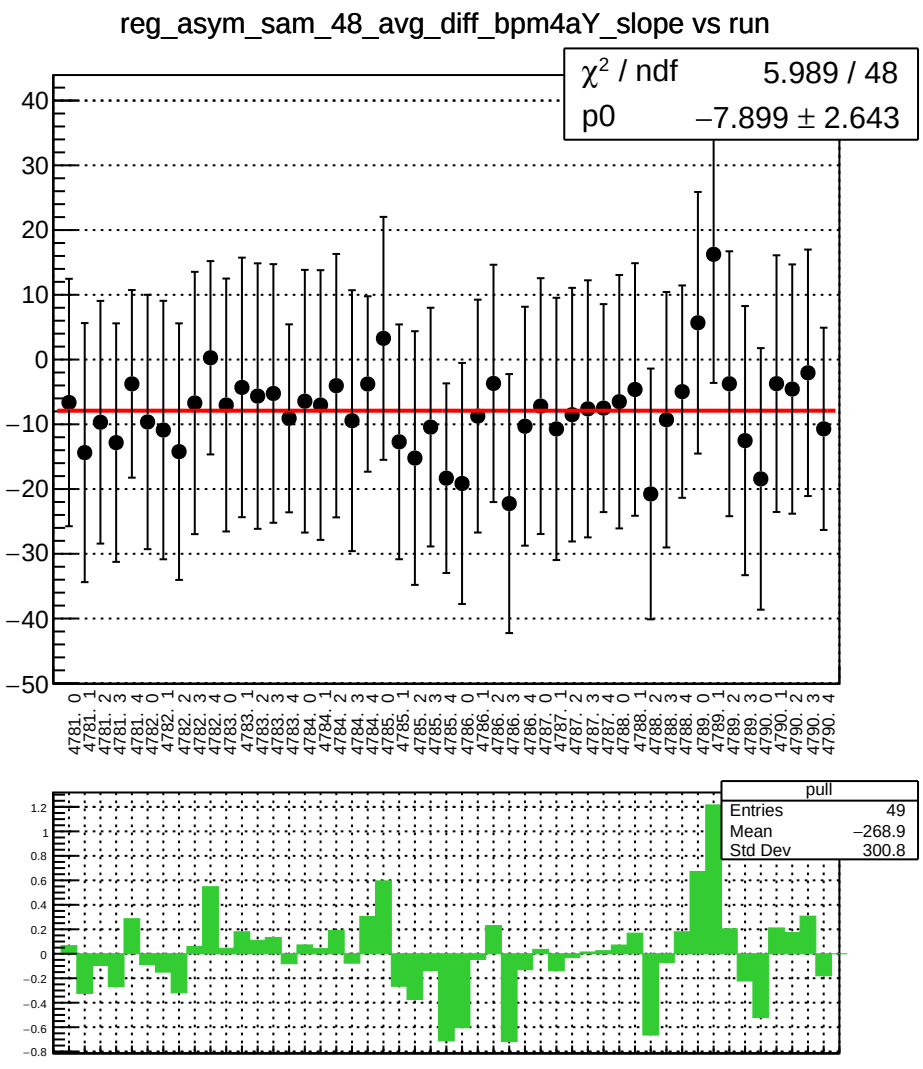

pull1D
Entries 49
Mean 0.004967
Std Dev 0.3732

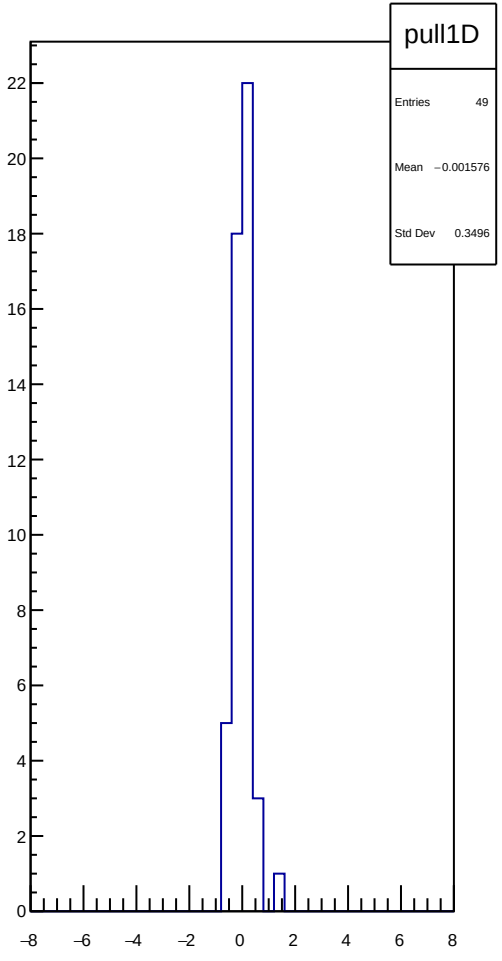

reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 17.38 / 48
p0 −58.78 ± 1.605
pull
Entries 49
Mean 382.3
Std Dev 356.6

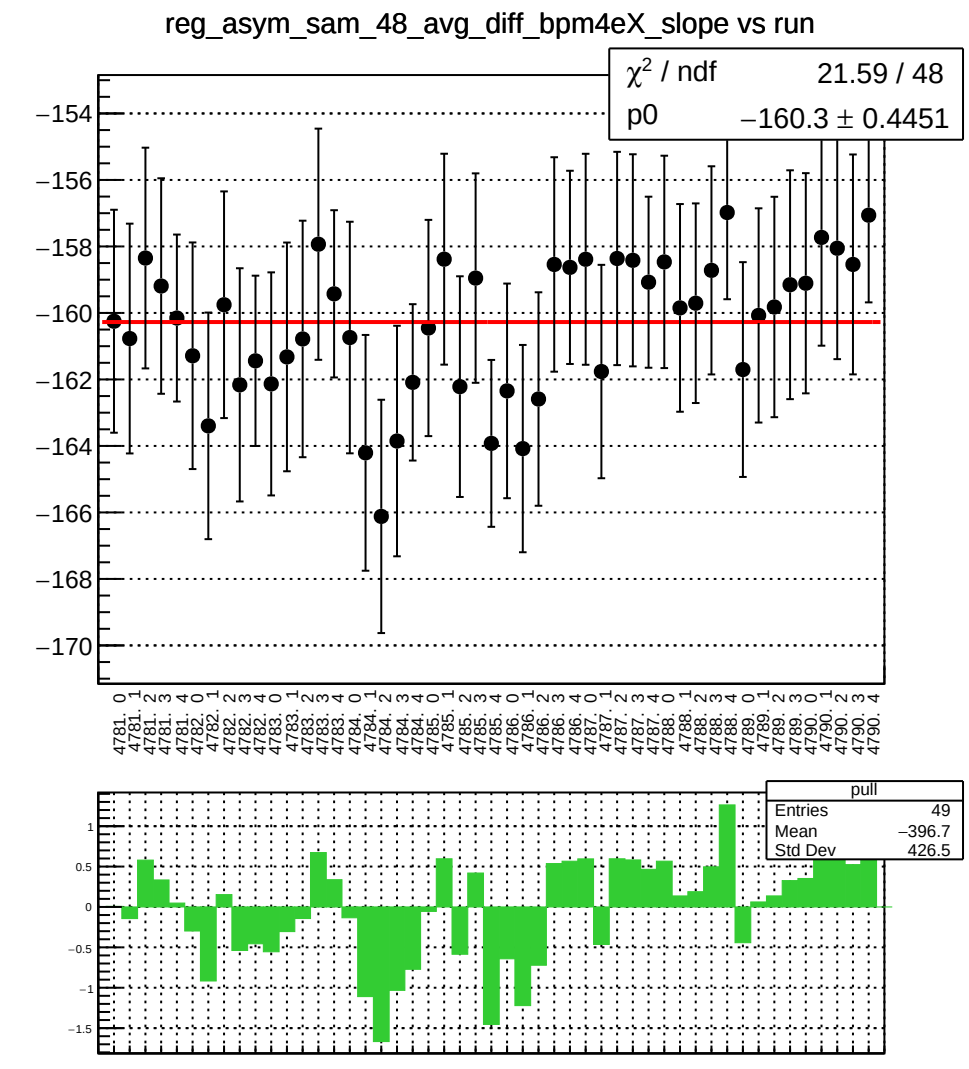

pull1D
Entries 49
Mean −0.01411
Std Dev 0.5954

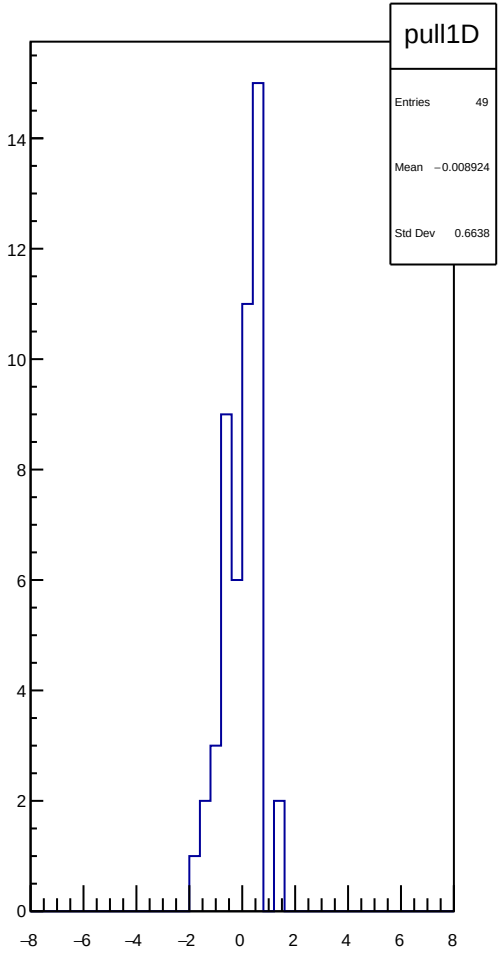

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 20.75 / 48
p0 84.93 ± 2.31
pull
Entries 49
Mean 23.92
Std Dev 29.12

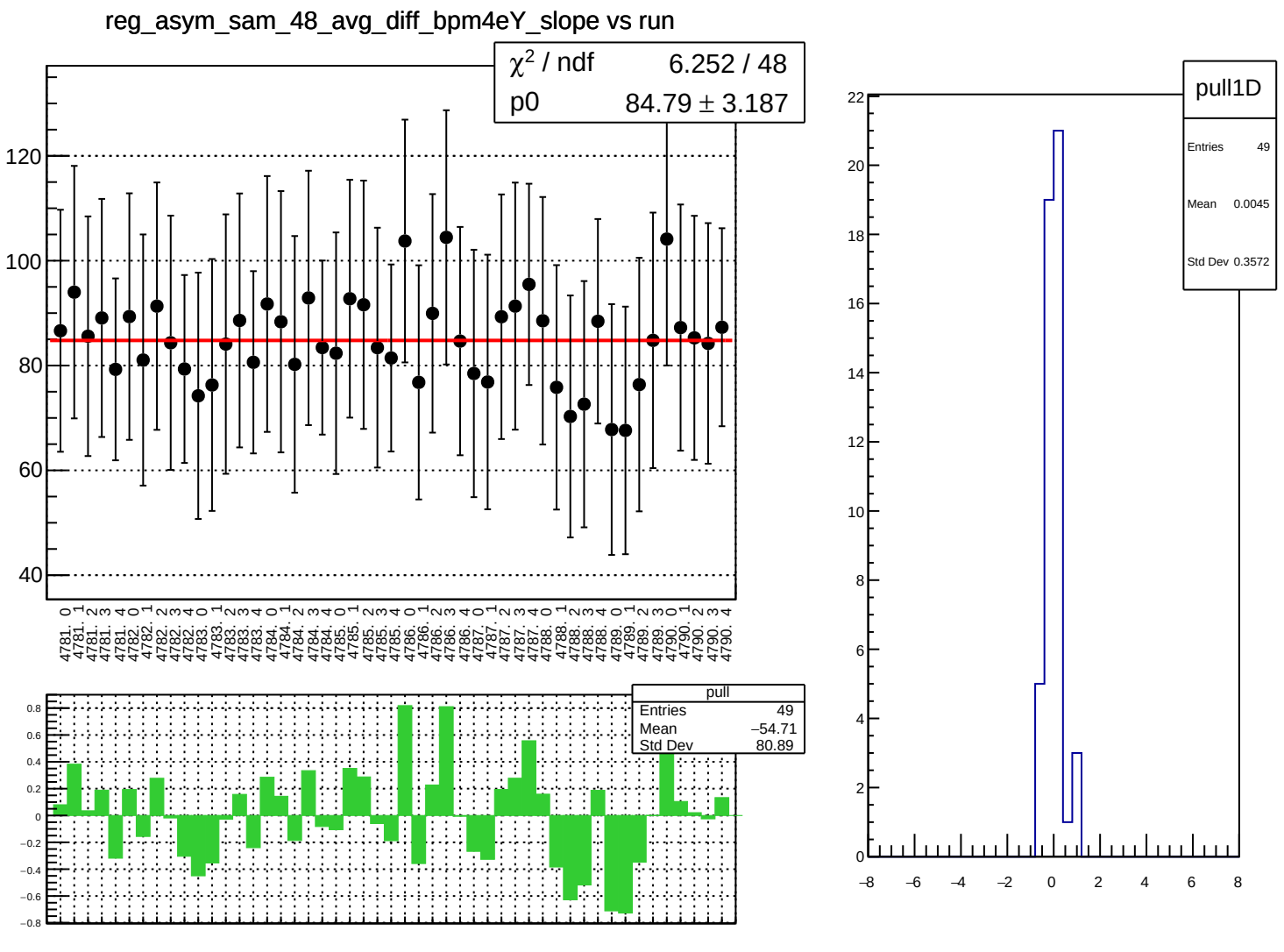

pull1D
Entries 49
Mean −0.01915
Std Dev 0.6505

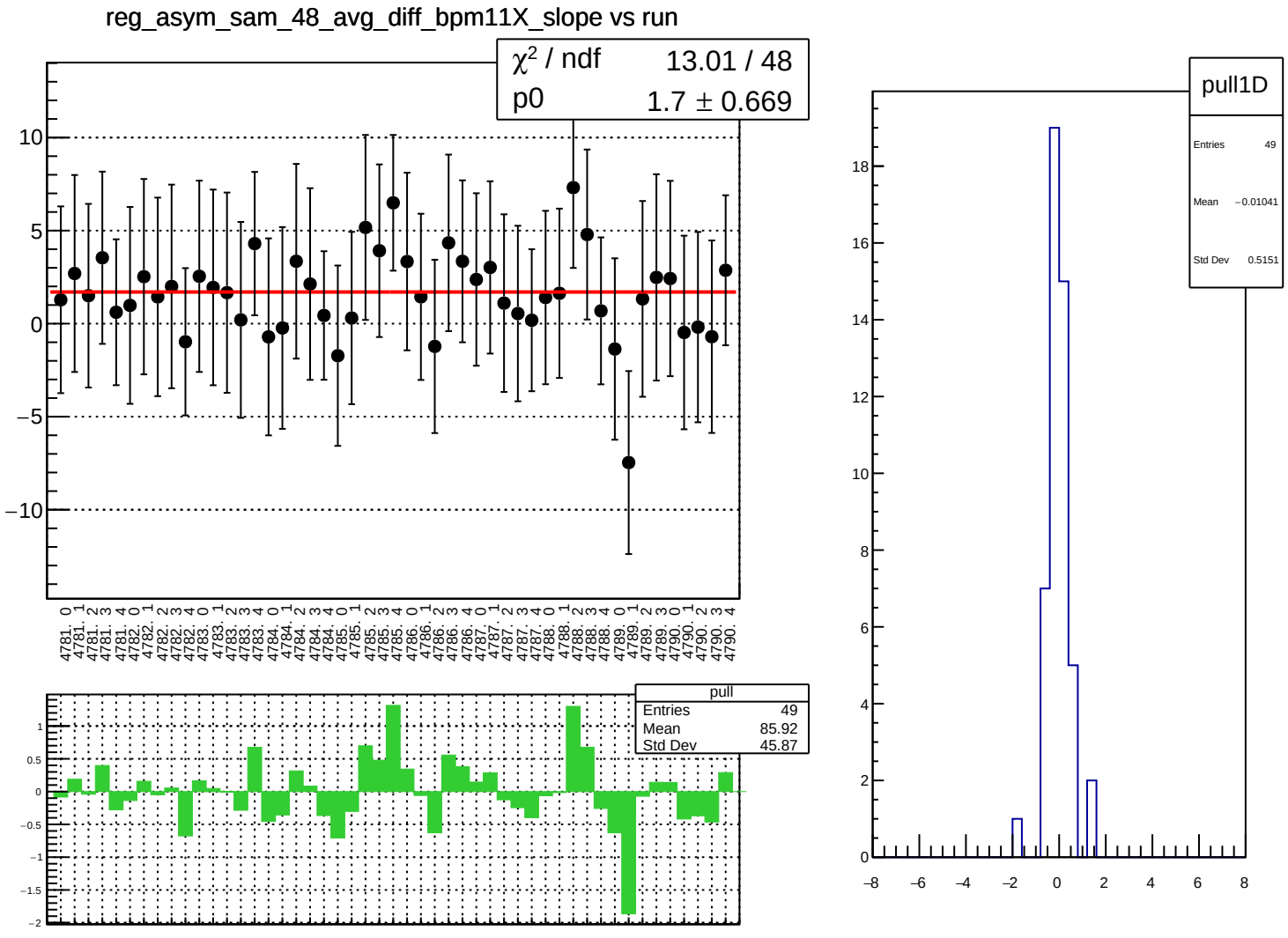

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.989 / 48
p0 −7.899 ± 2.643
pull
Entries 49
Mean −268.9
Std Dev 300.8

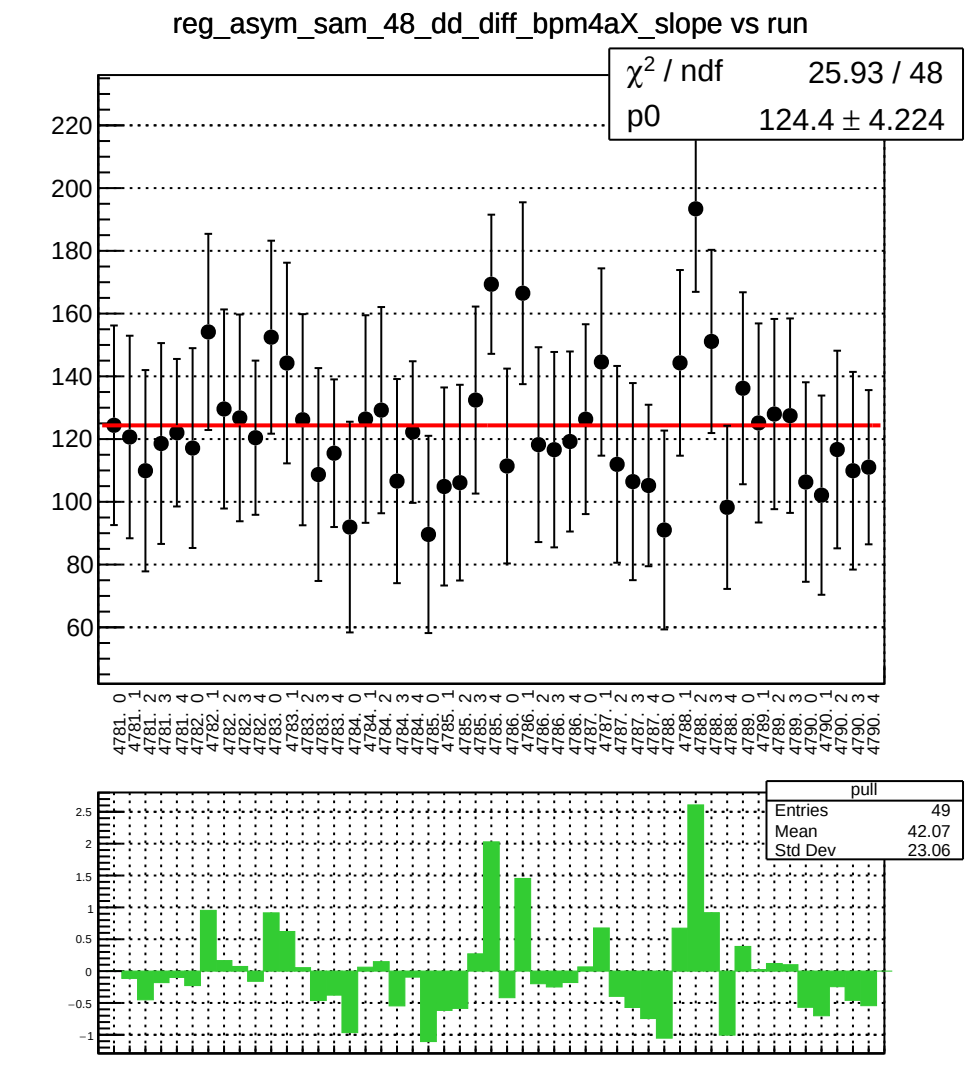

pull1D
Entries 49
Mean −0.001576
Std Dev 0.3496

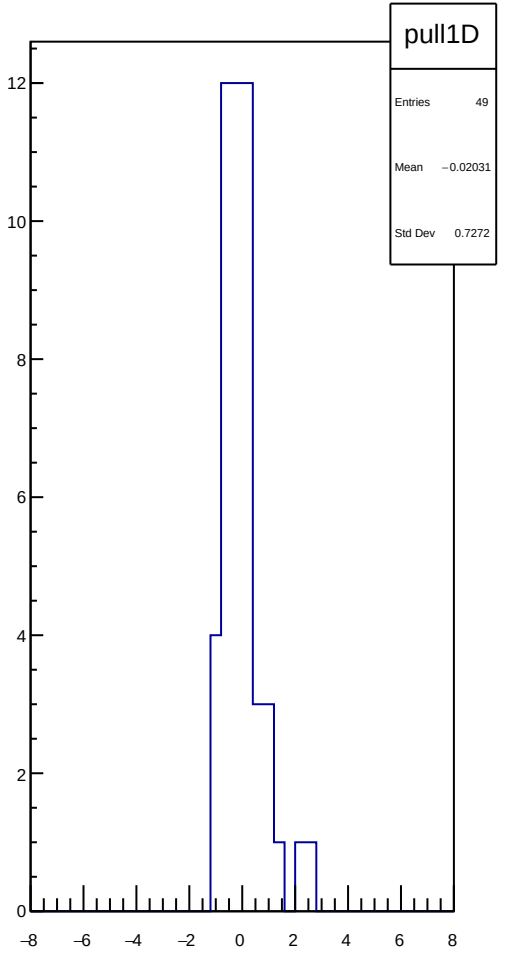

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.59 / 48
p0 −160.3 ± 0.4451
pull
Entries 49
Mean −396.7
Std Dev 426.5

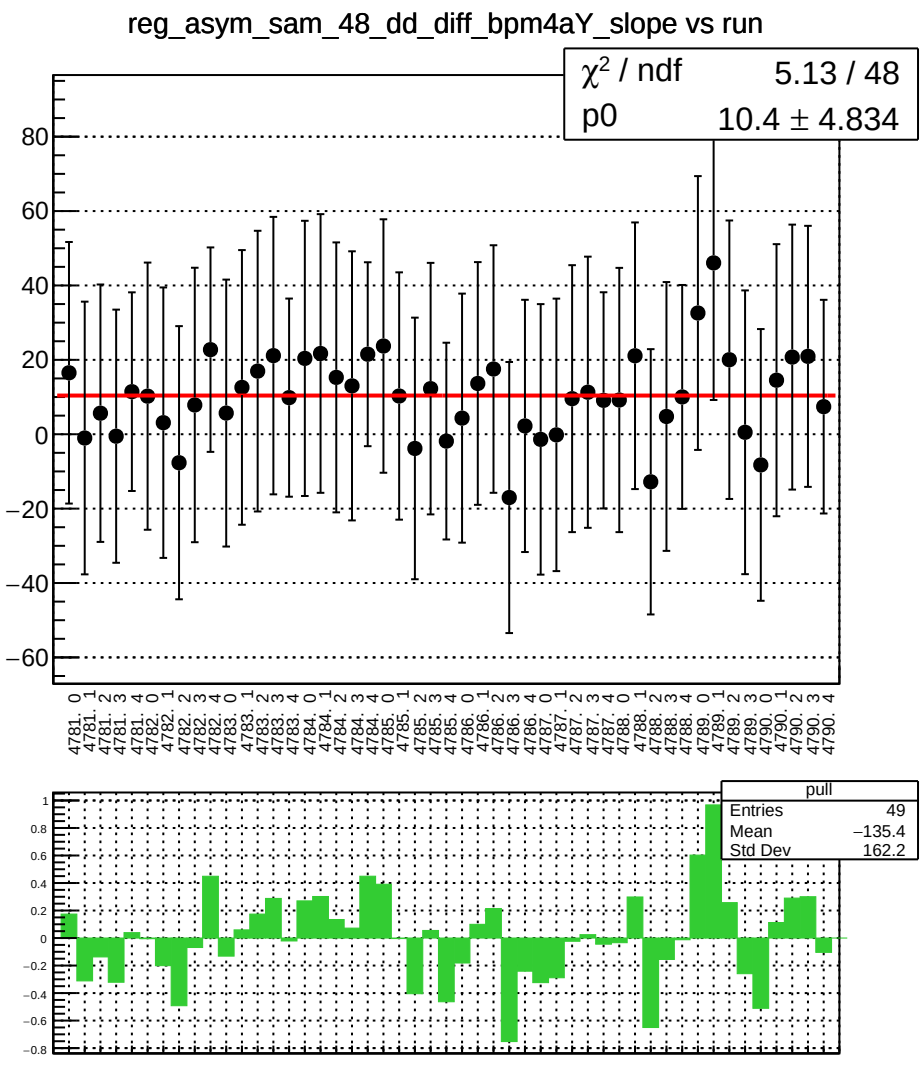

pull1D
Entries 49
Mean −0.008924
Std Dev 0.6638

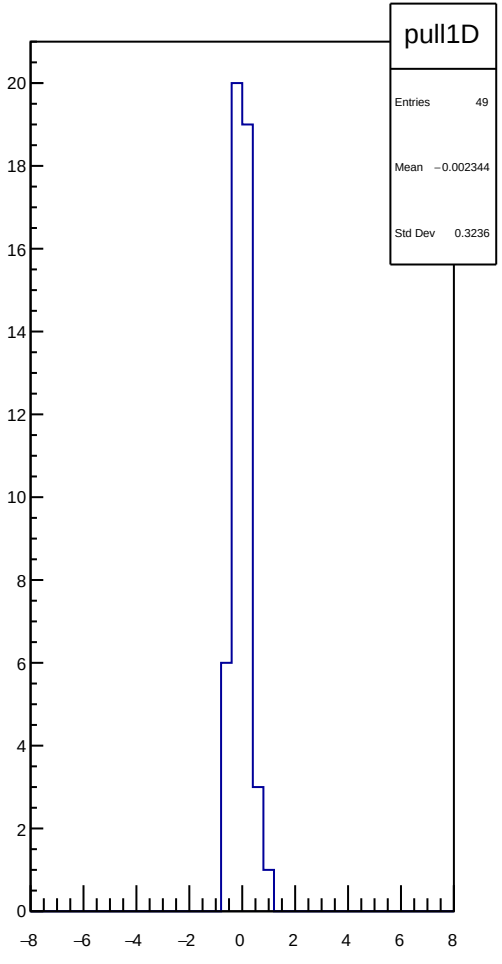

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.252 / 48
p0 84.79 ± 3.187
pull
Entries 49
Mean −54.71
Std Dev 80.89
pull1D
Entries 49
Mean 0.0045
Std Dev 0.3572

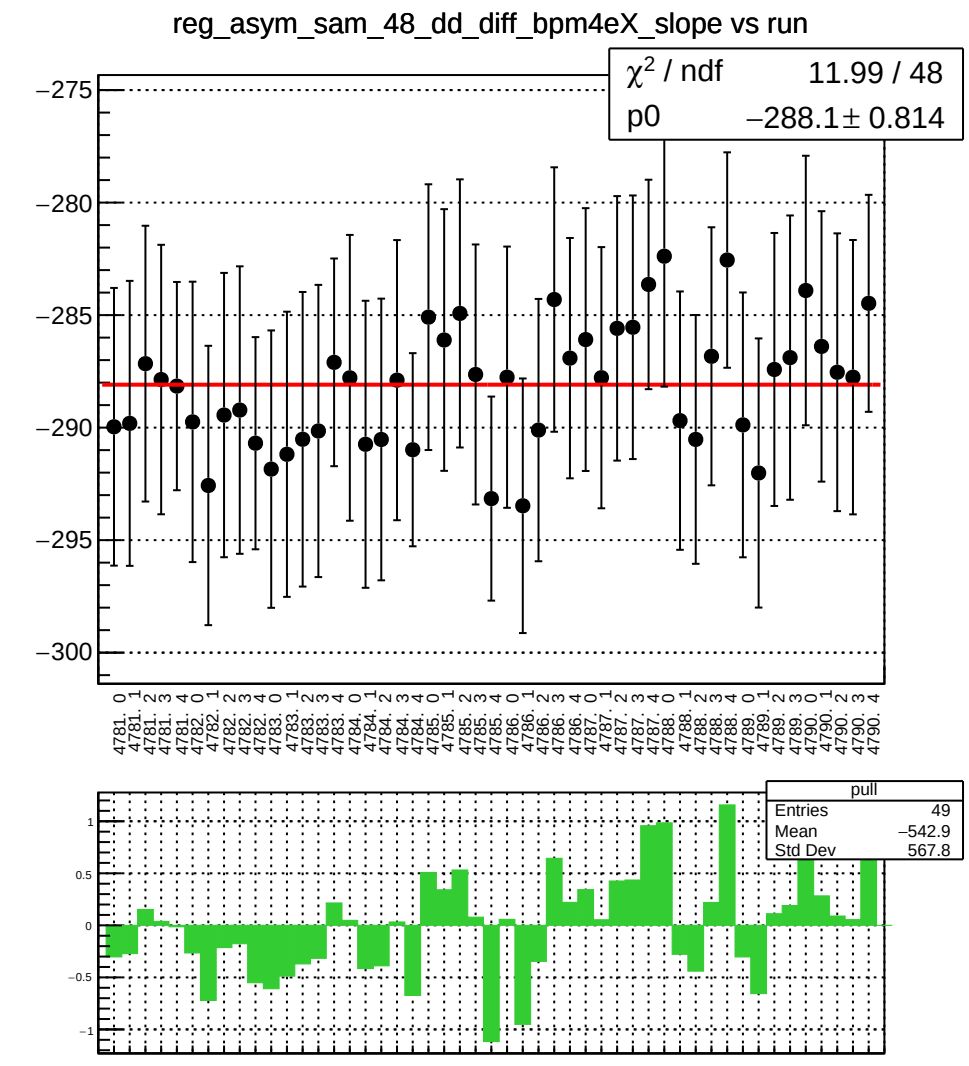

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 13.01 / 48
p0 1.7 ± 0.669
pull
Entries 49
Mean 85.92
Std Dev 45.87
pull1D
Entries 49
Mean −0.01041
Std Dev 0.5151

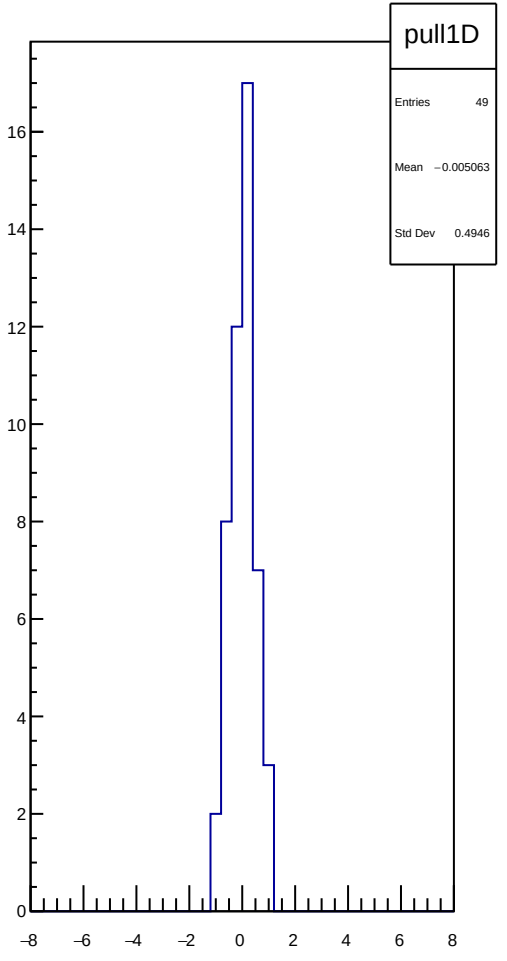

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 25.93 / 48
p0 124.4 ± 4.224
pull
Entries 49
Mean 42.07
Std Dev 23.06

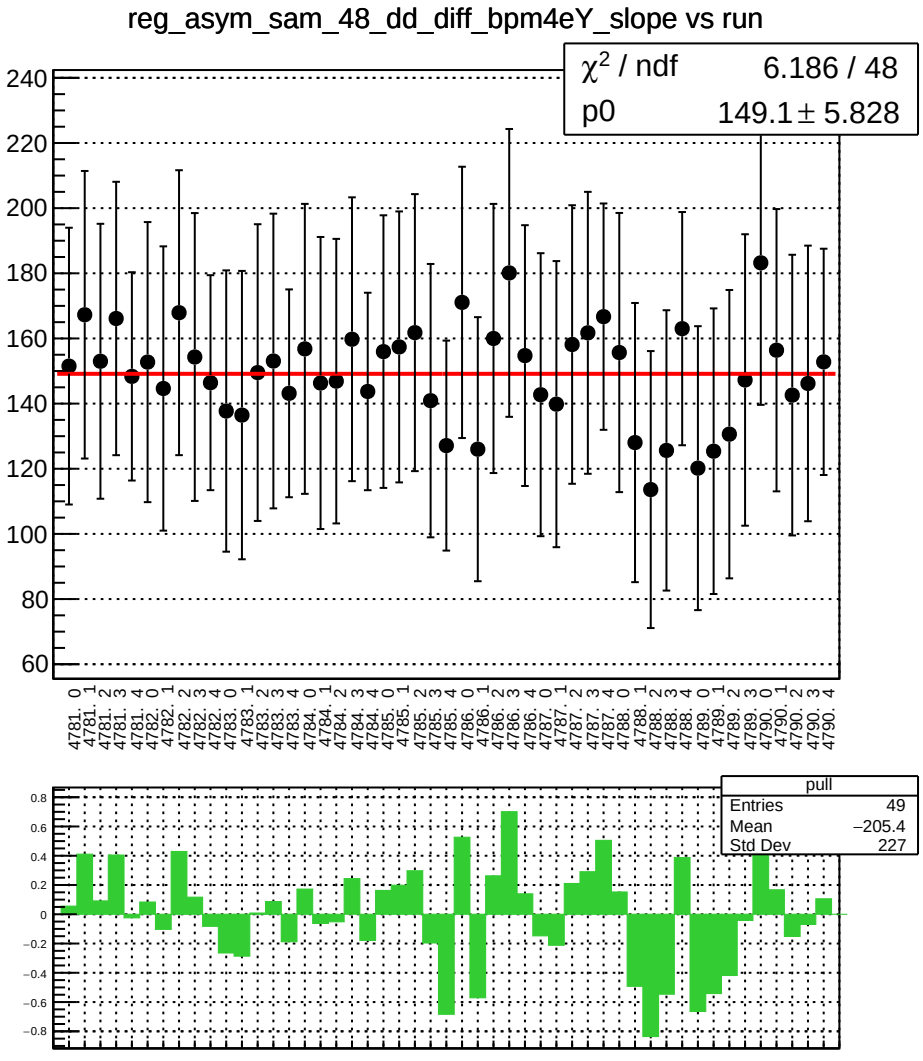

pull1D
Entries 49
Mean −0.02031
Std Dev 0.7272

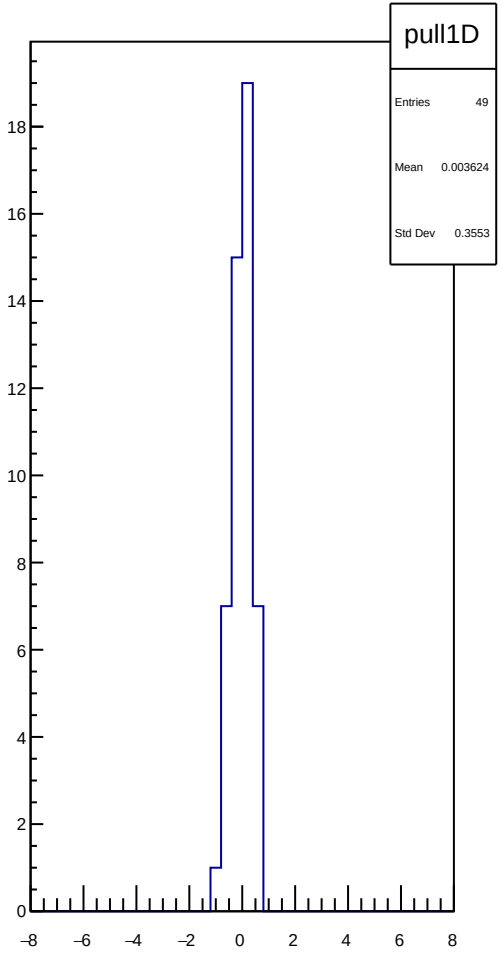

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.13 / 48
p0 10.4 ± 4.834
pull
Entries 49
Mean −135.4
Std Dev 162.2

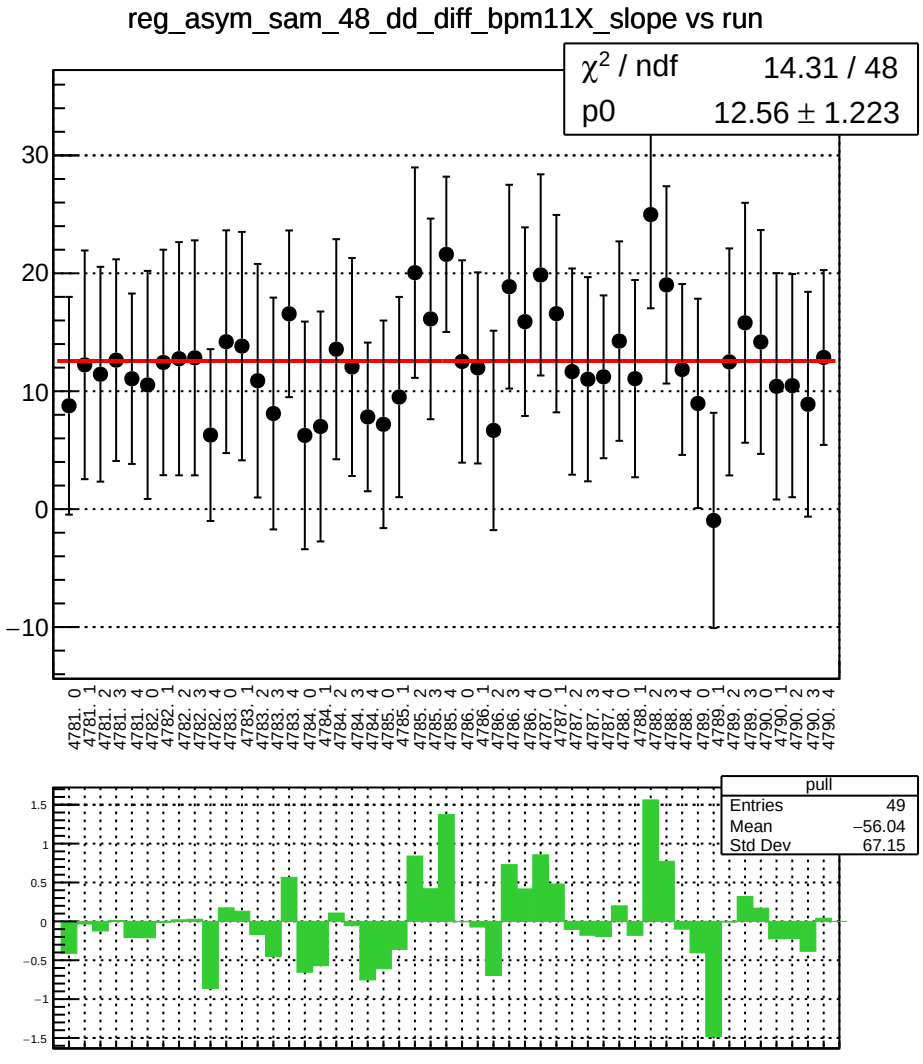

pull1D
Entries 49
Mean −0.002344
Std Dev 0.3236

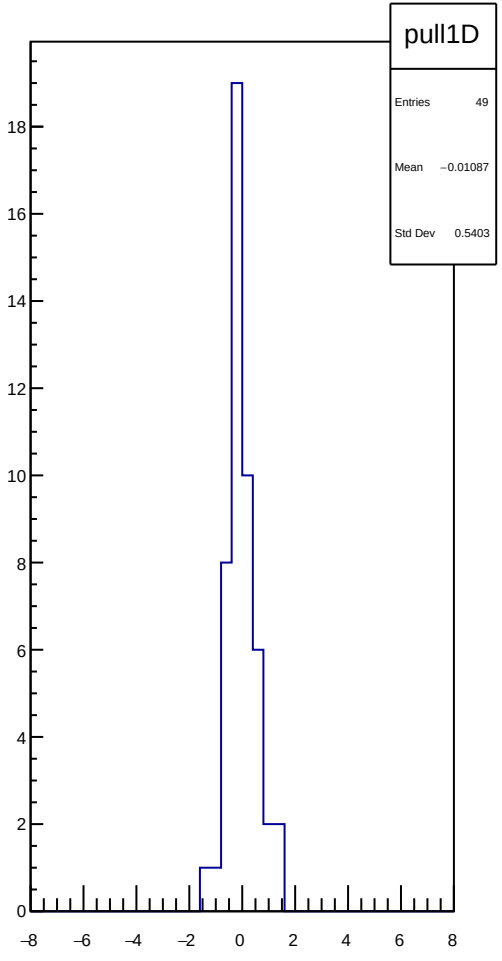

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.99 / 48
p0 −288.1± 0.814
−275
−280
−285
−290
−295
−300
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −542.9
Std Dev 567.8
1
0.5
0
−0.5
−1

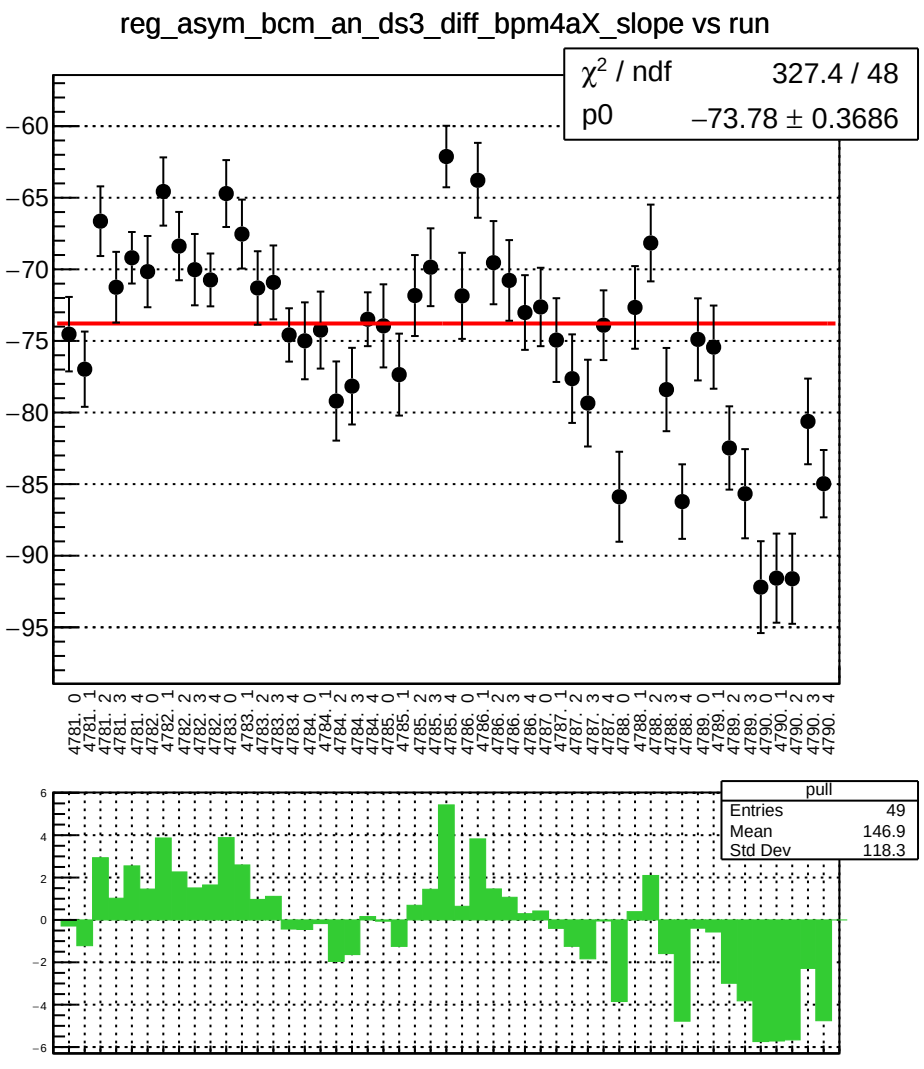

pull1D
Entries 49
Mean −0.005063
Std Dev 0.4946
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

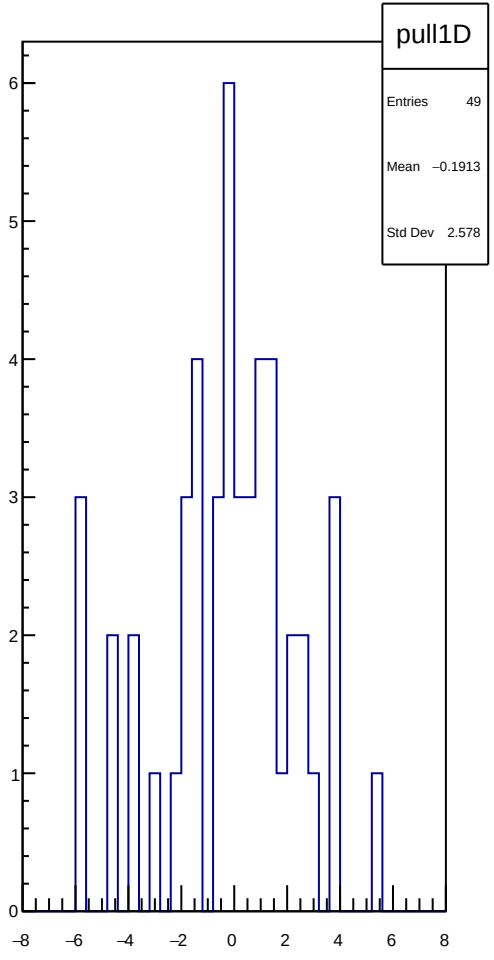

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.186 / 48
p0 149.1 ± 5.828
pull
Entries 49
Mean −205.4
Std Dev 227

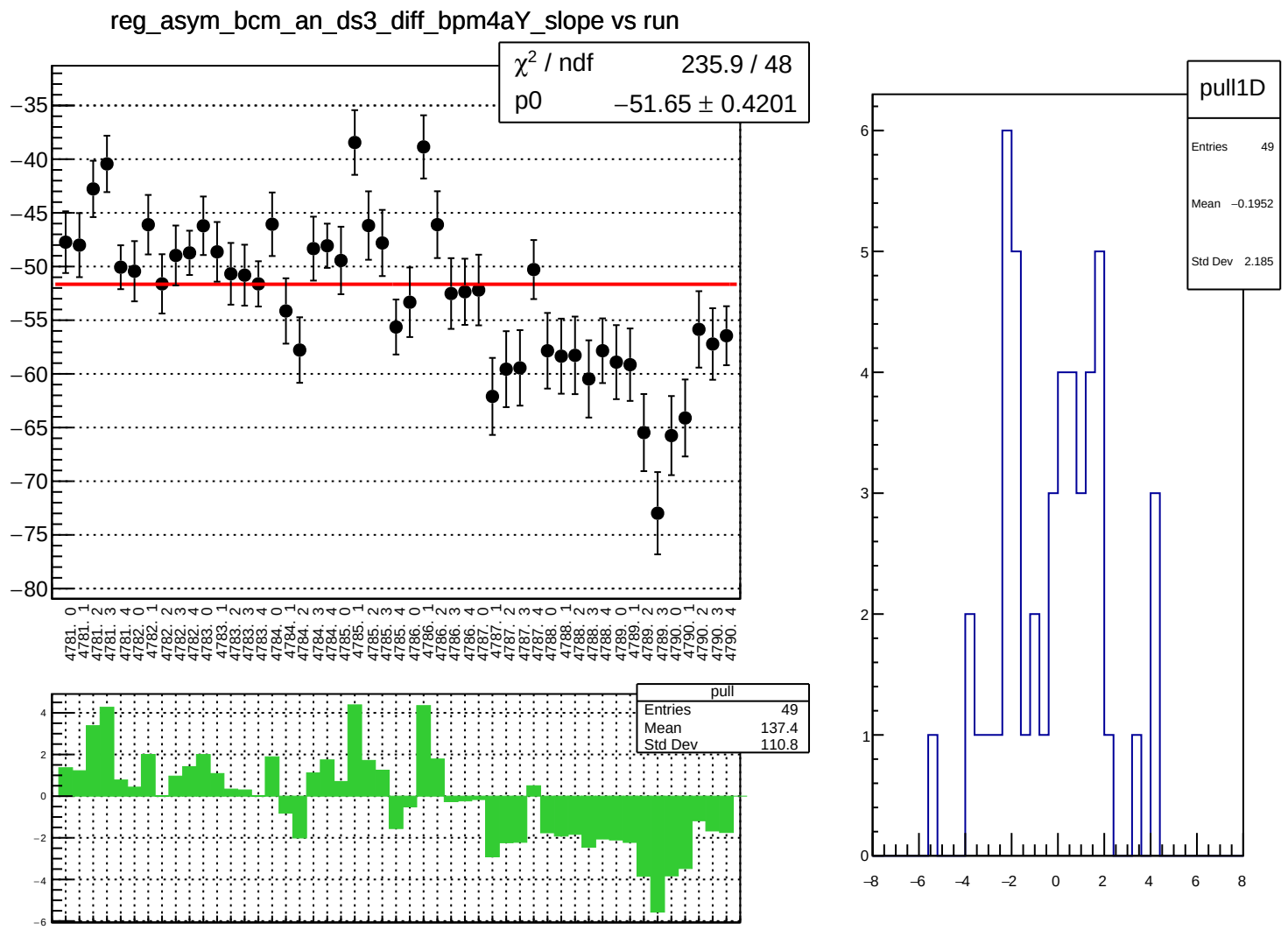

pull1D
Entries 49
Mean 0.003624
Std Dev 0.3553

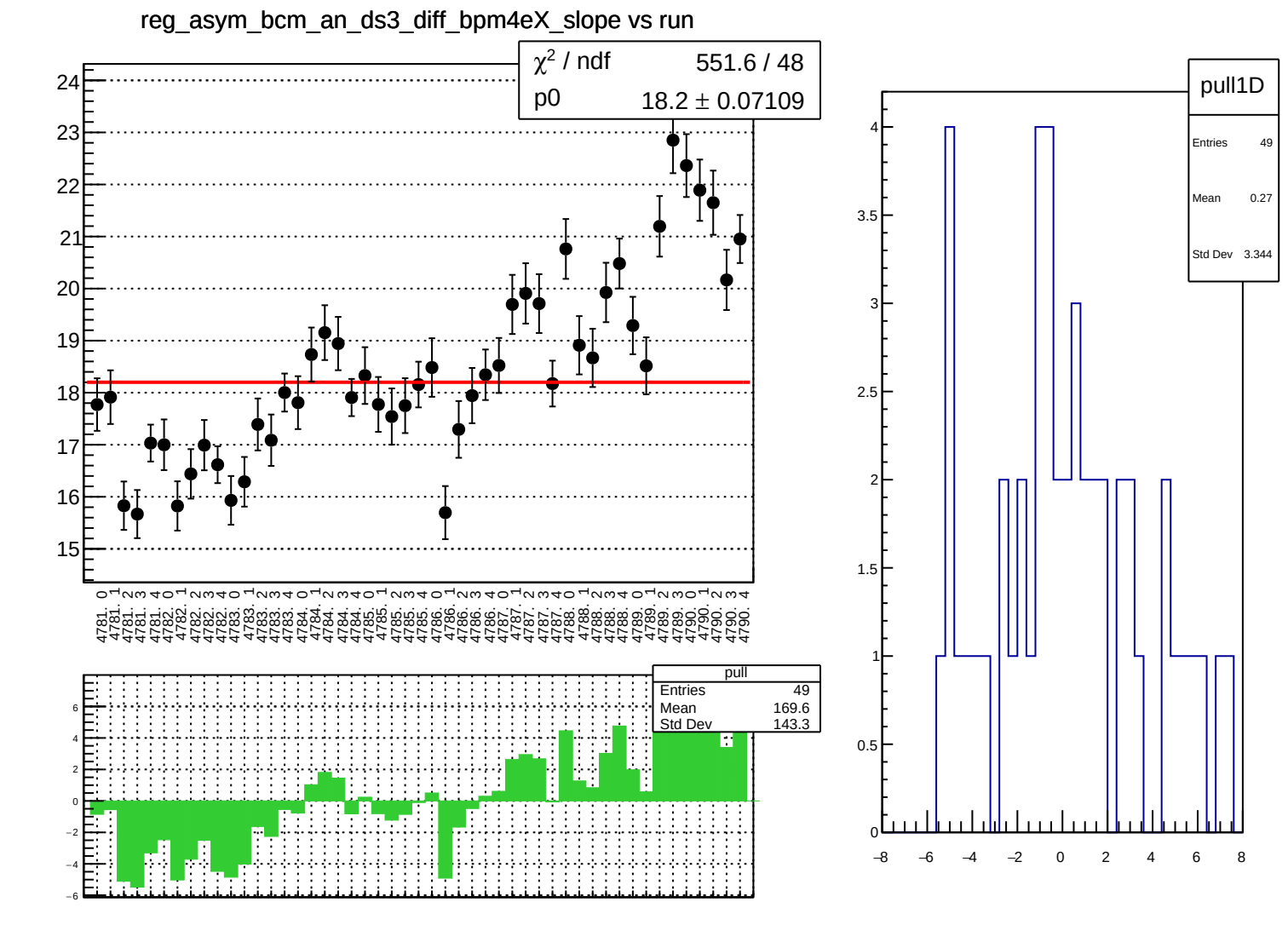

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 14.31 / 48
p0 12.56 ± 1.223
pull
Entries 49
Mean −56.04
Std Dev 67.15

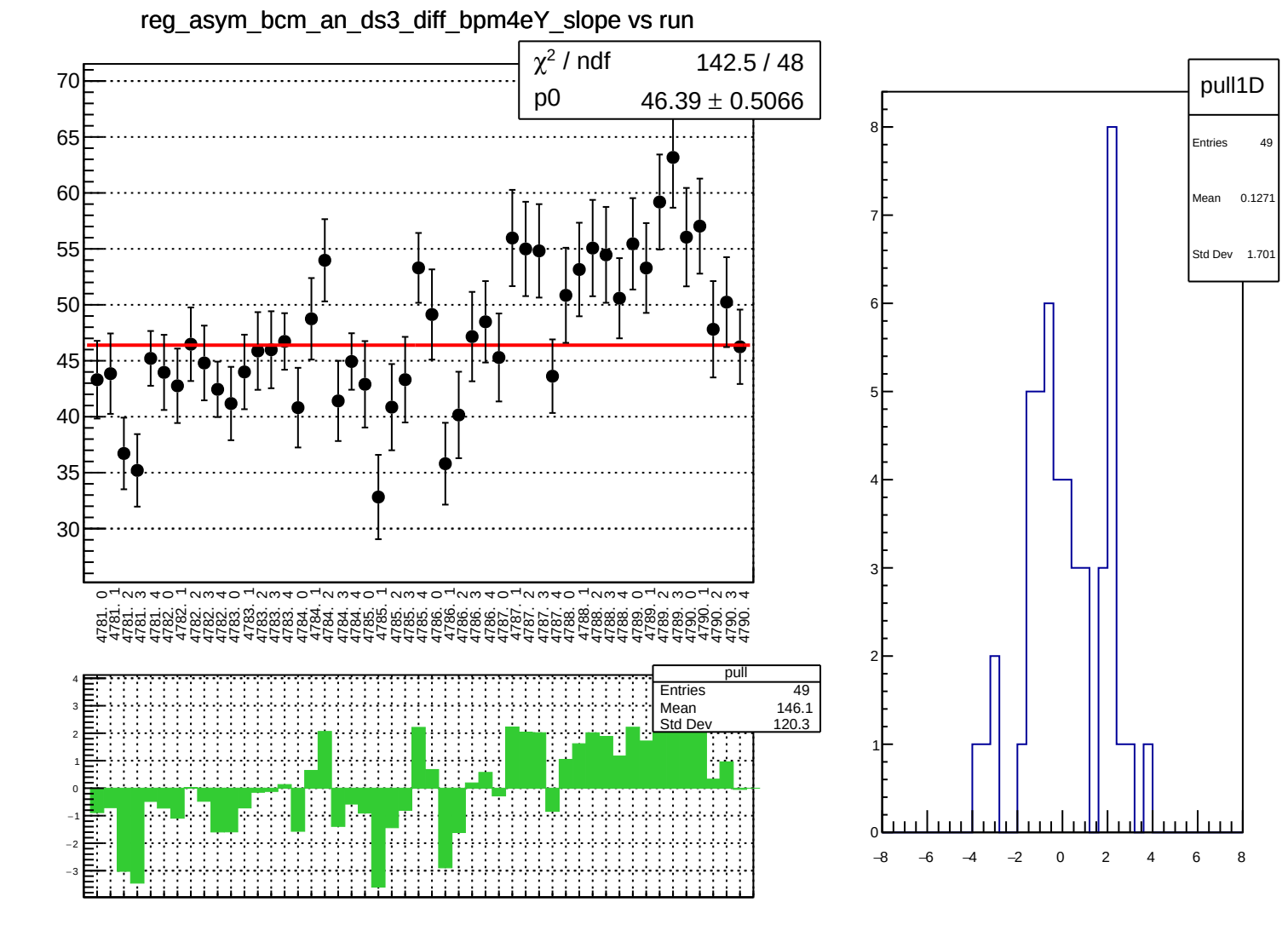

pull1D
Entries 49
Mean −0.01087
Std Dev 0.5403

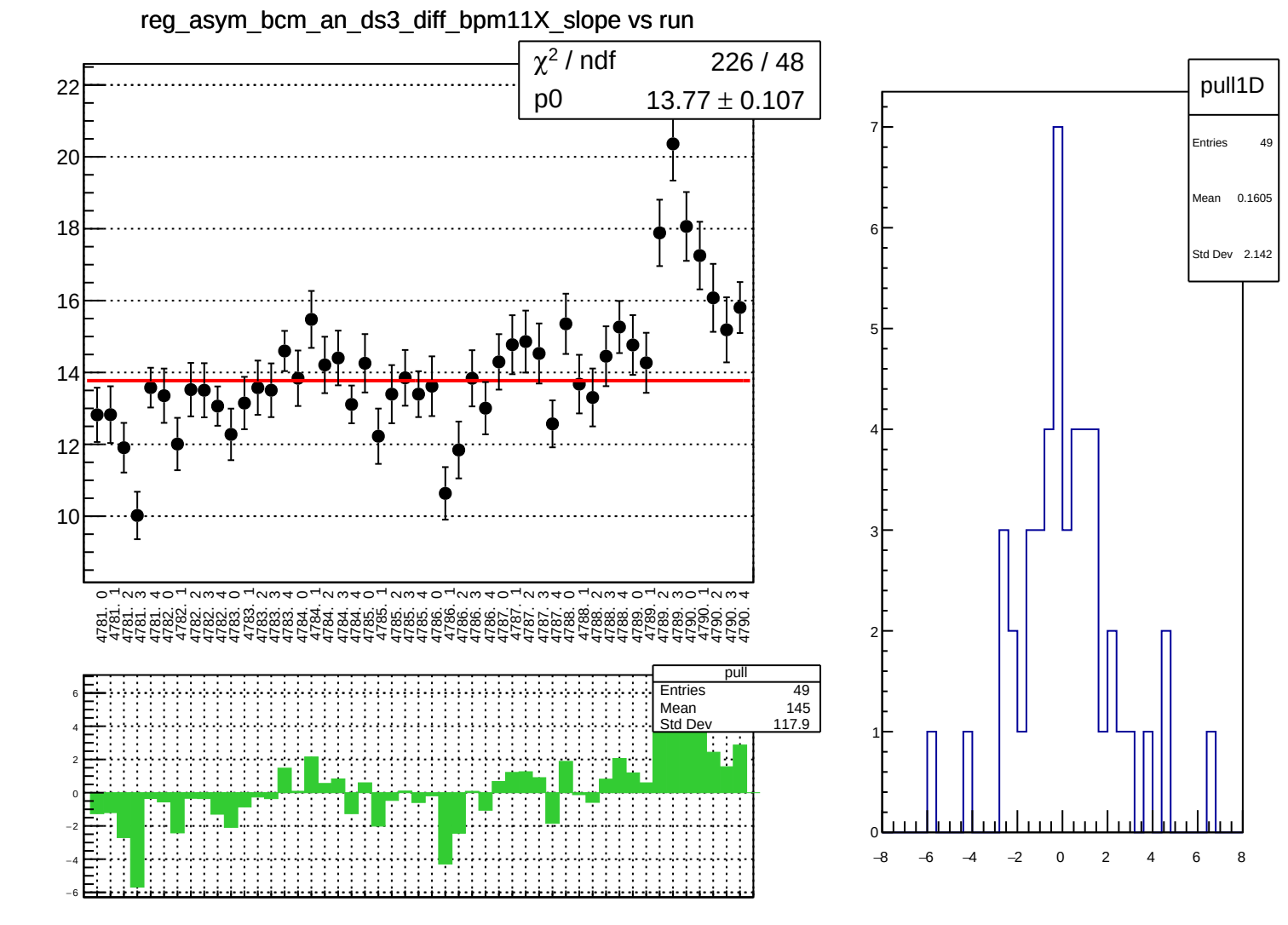

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 327.4 / 48
p0 −73.78 ± 0.3686
pull
Entries 49
Mean 146.9
Std Dev 118.3

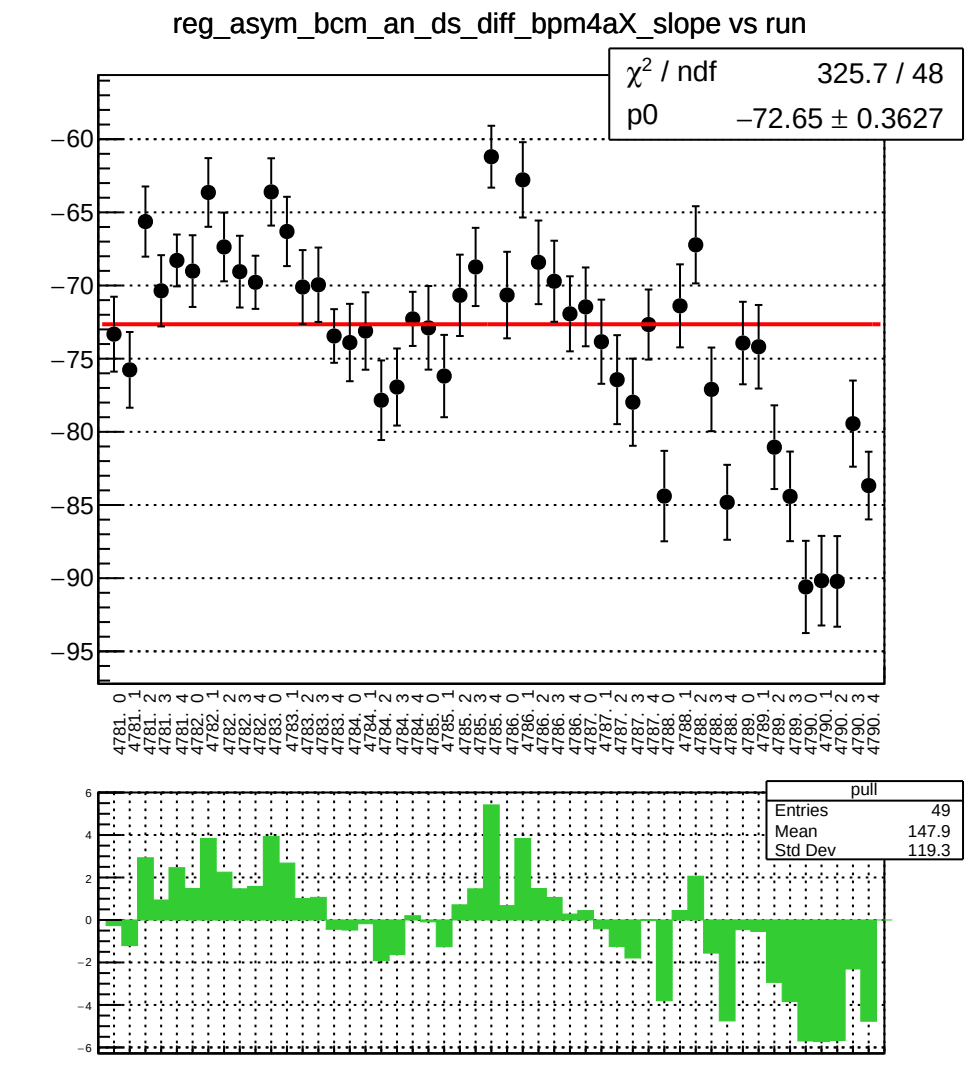

pull1D
Entries 49
Mean −0.1913
Std Dev 2.578

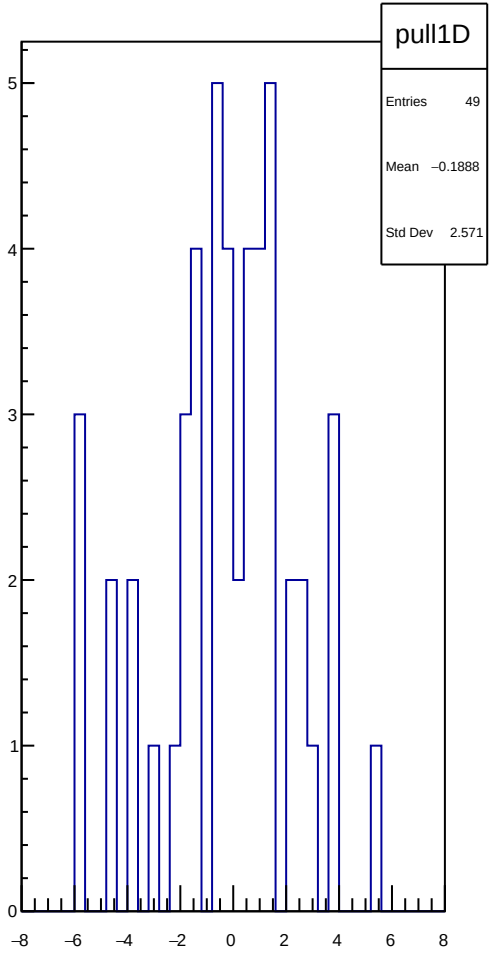

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 235.9 / 48
p0 −51.65 ± 0.4201
pull
Entries 49
Mean 137.4
Std Dev 110.8
pull1D
Entries 49
Mean −0.1952
Std Dev 2.185

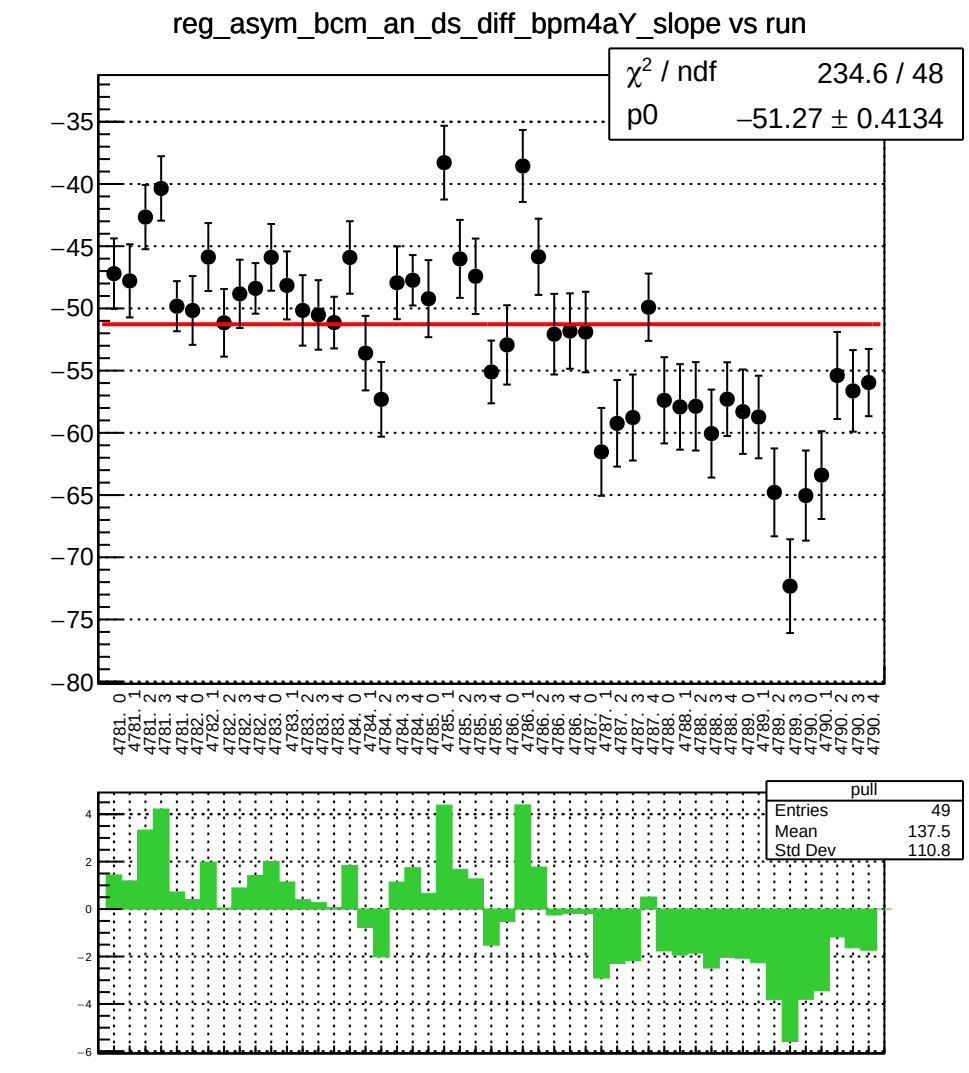

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 551.6 / 48
p0 18.2 ± 0.07109
pull
Entries 49
Mean 169.6
Std Dev 143.3
pull1D
Entries 49
Mean 0.27
Std Dev 3.344

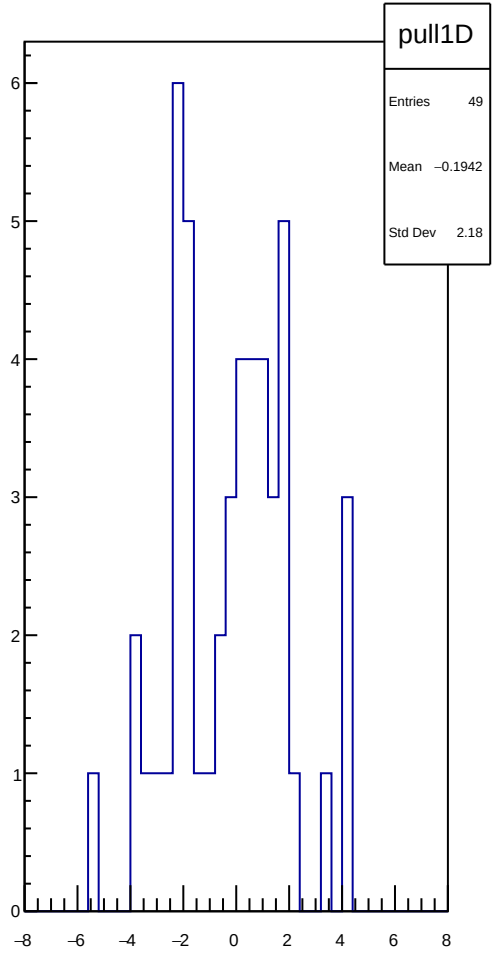

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 142.5 / 48
p0 46.39 ± 0.5066
pull
Entries 49
Mean 146.1
Std Dev 120.3
pull1D
Entries 49
Mean 0.1271
Std Dev 1.701

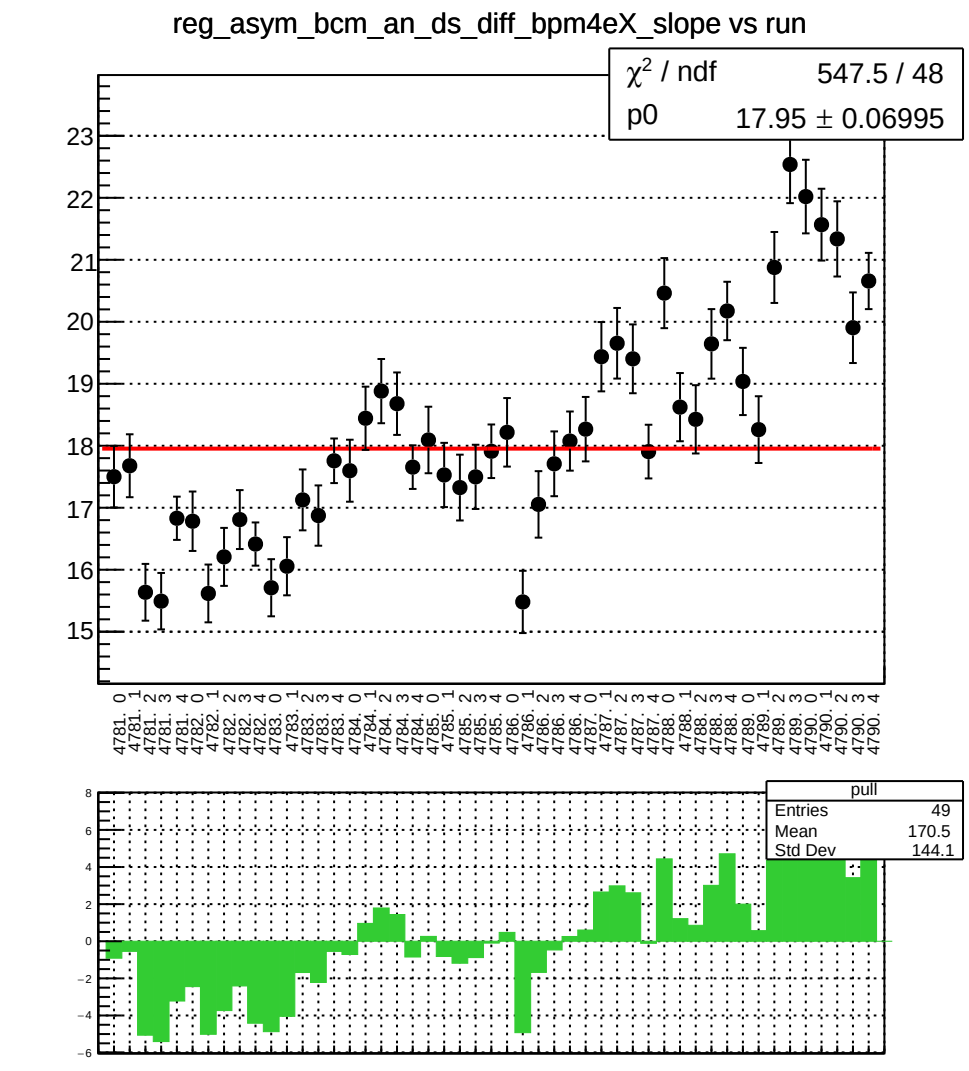

reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 226 / 48
p0 13.77 ± 0.107
pull
Entries 49
Mean 145
Std Dev 117.9
pull1D
Entries 49
Mean 0.1605
Std Dev 2.142

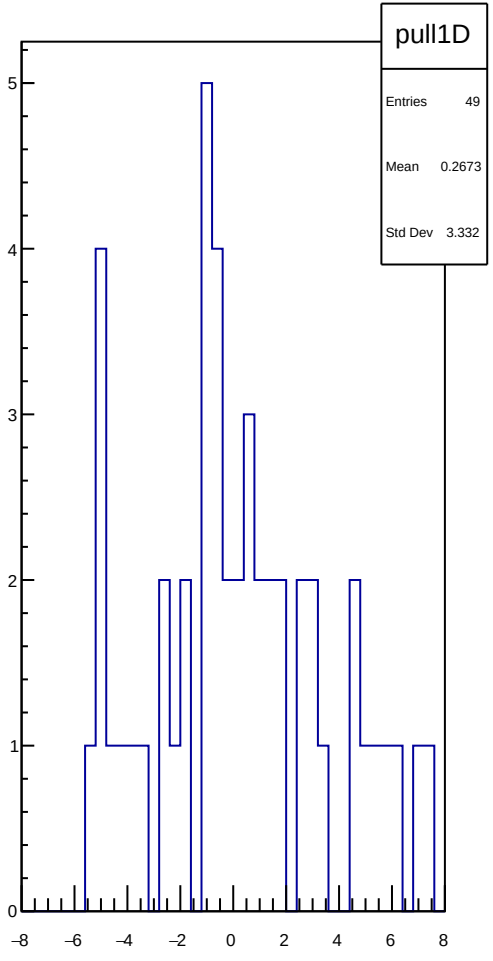

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 325.7 / 48
p0 −72.65 ± 0.3627
pull
Entries 49
Mean 147.9
Std Dev 119.3

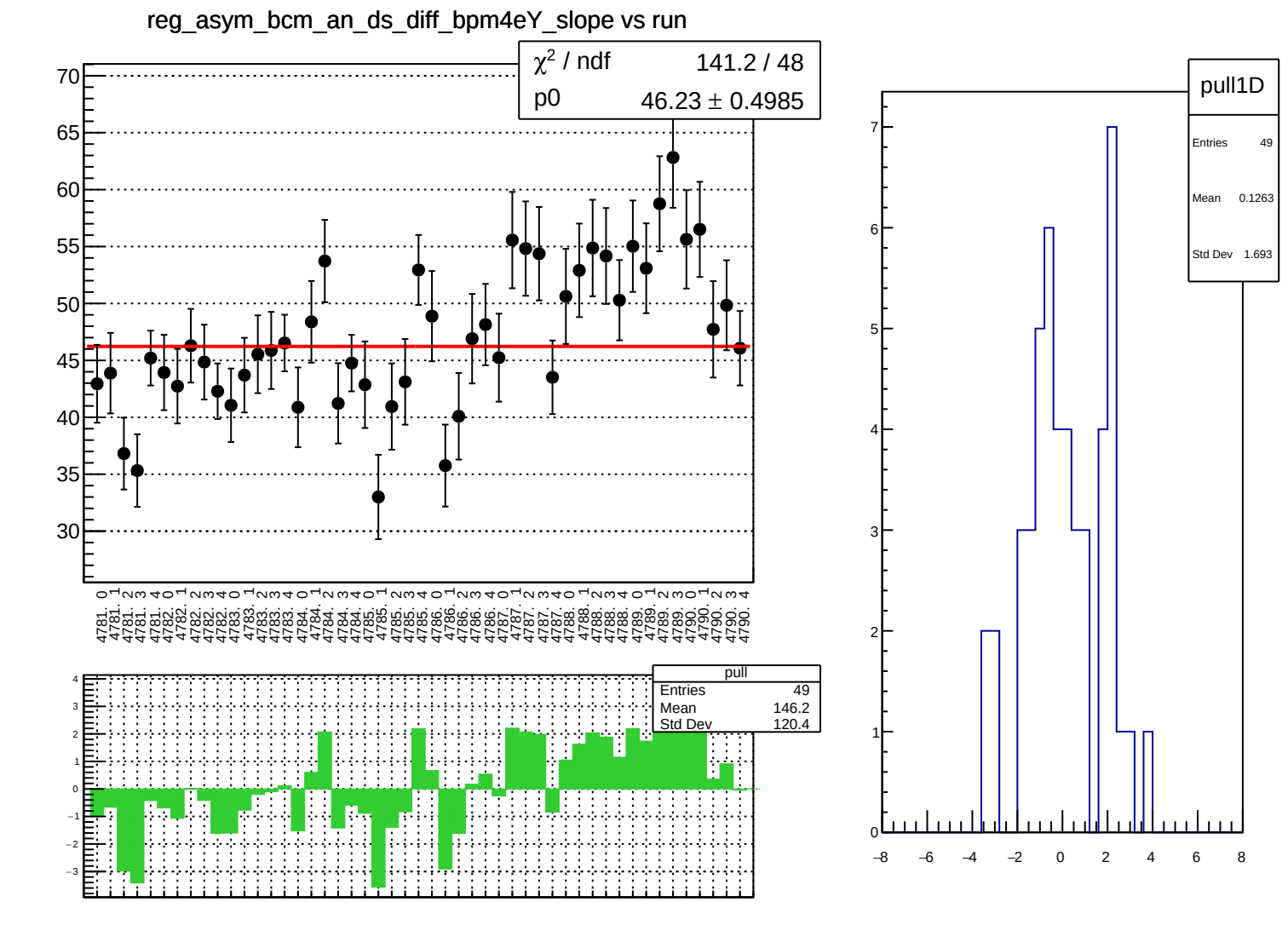

pull1D
Entries 49
Mean −0.1888
Std Dev 2.571

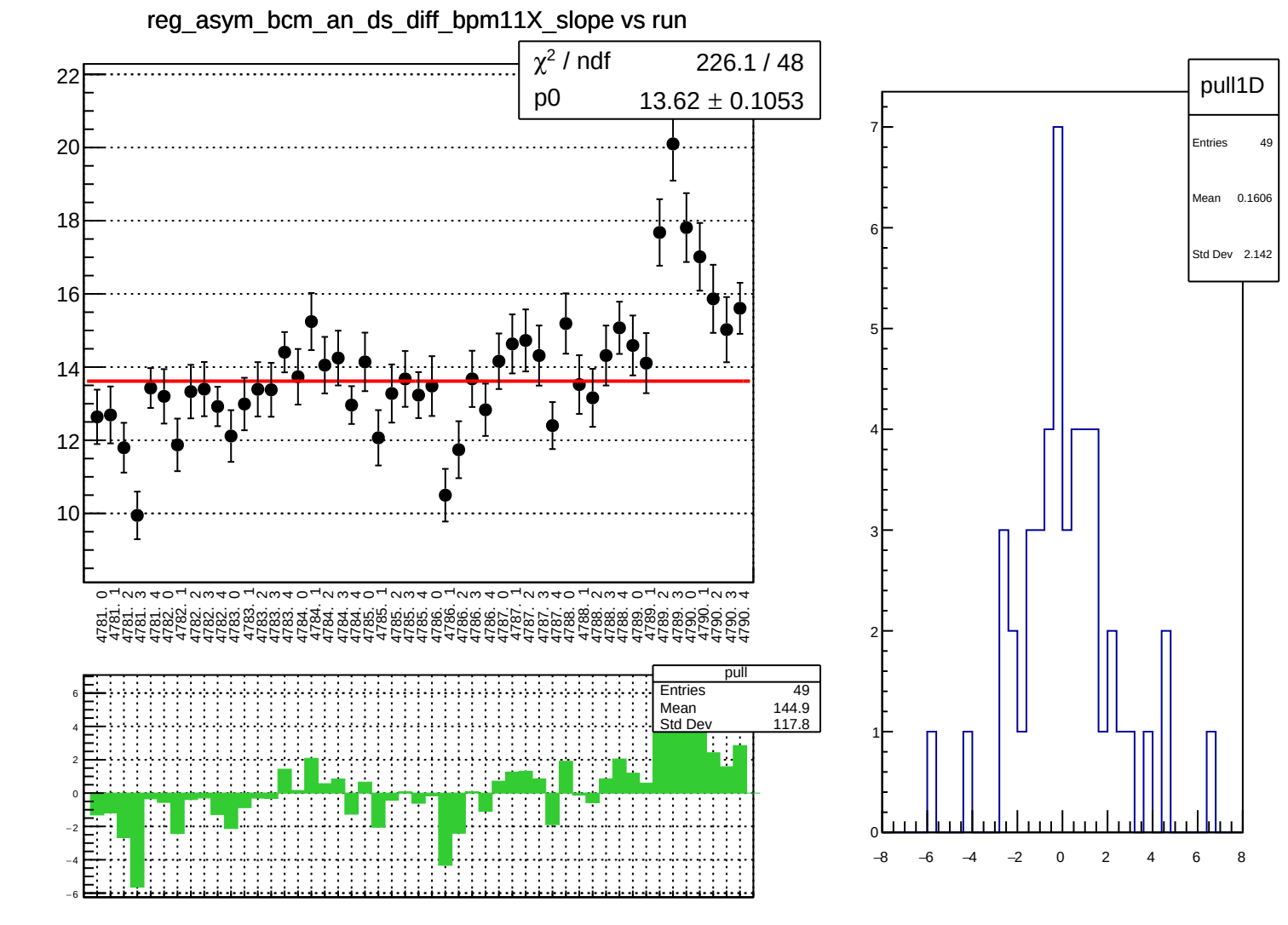

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 234.6 / 48
p0 −51.27 ± 0.4134
pull
Entries 49
Mean 137.5
Std Dev 110.8

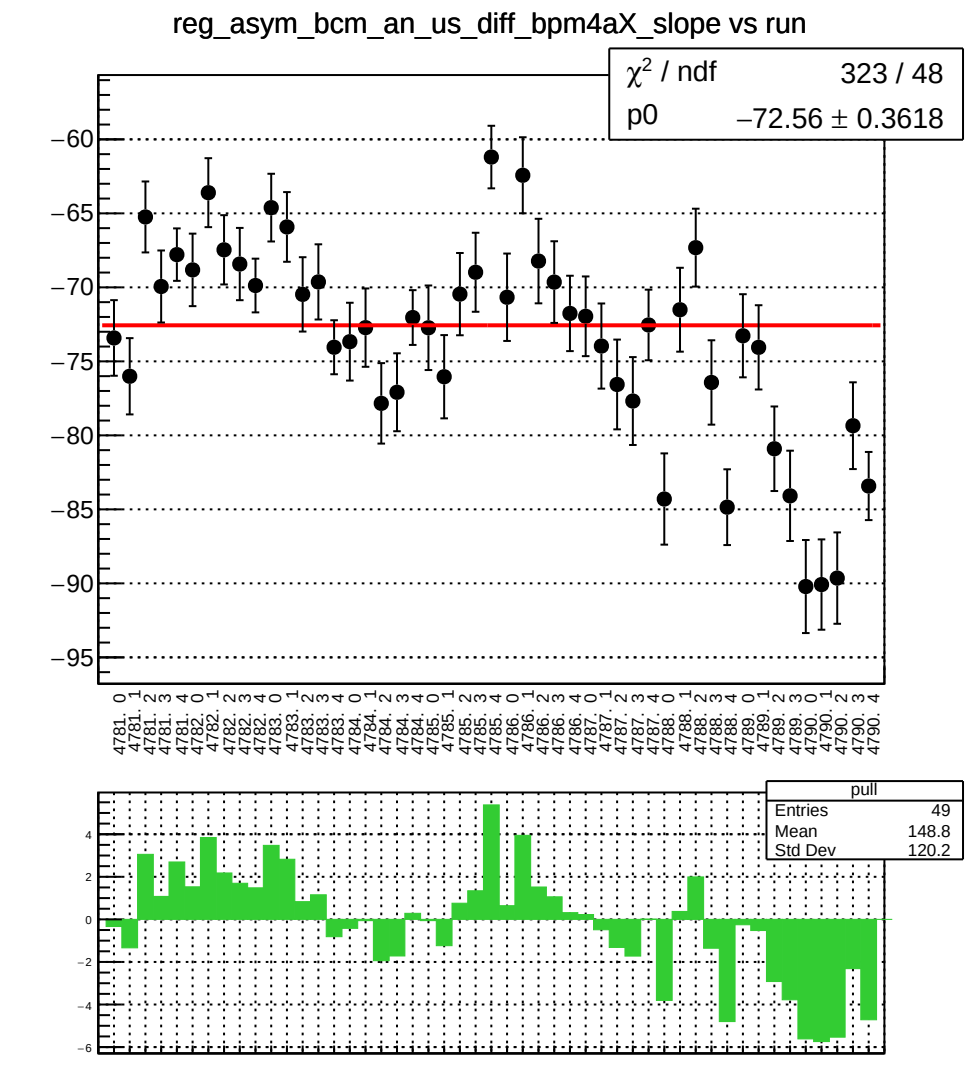

pull1D
Entries 49
Mean −0.1942
Std Dev 2.18

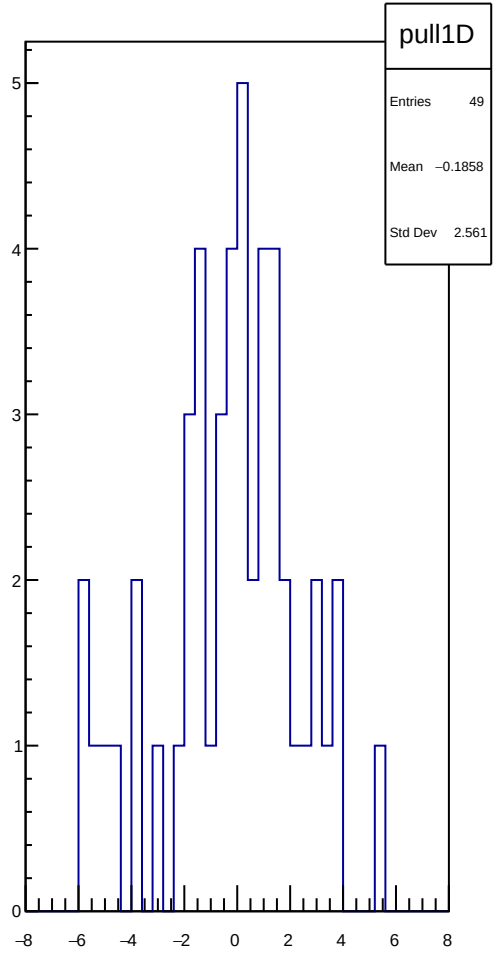

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 547.5 / 48
p0 17.95 ± 0.06995
pull
Entries 49
Mean 170.5
Std Dev 144.1

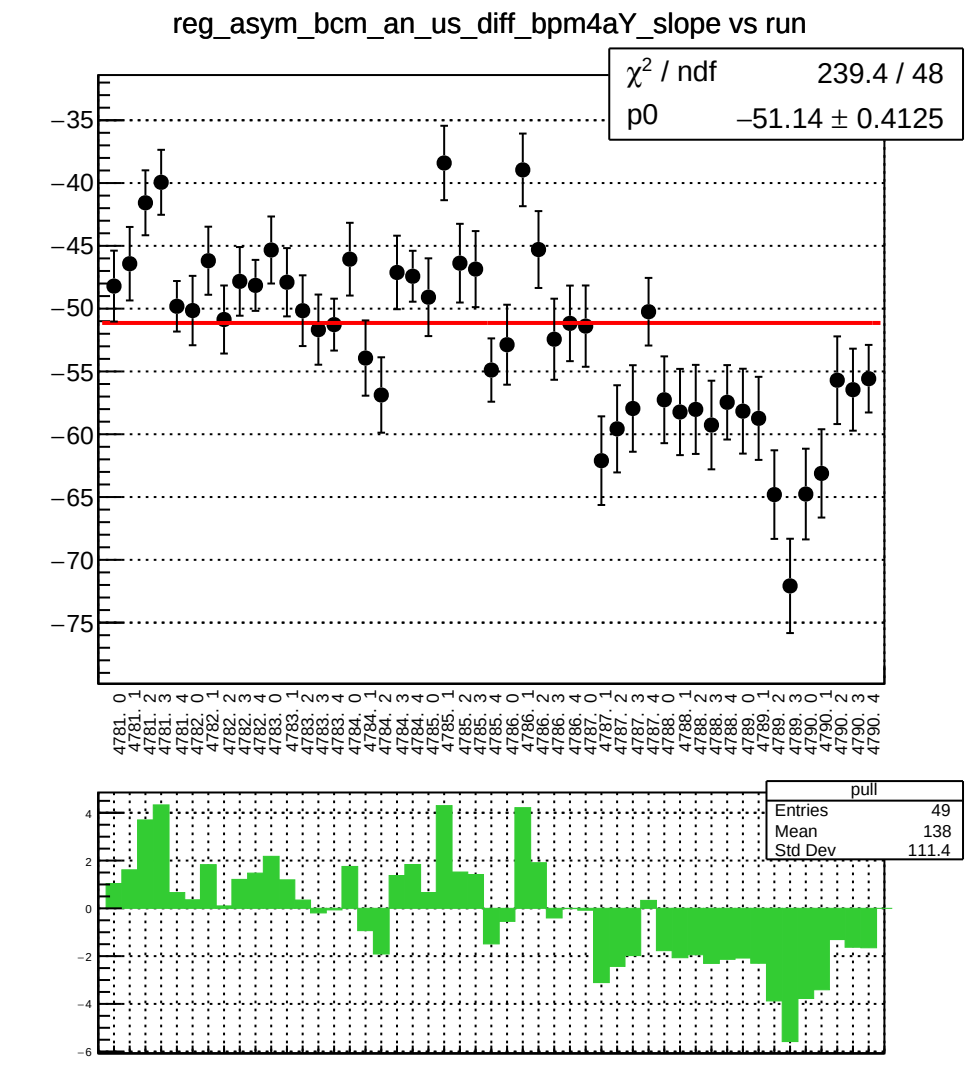

pull1D
Entries 49
Mean 0.2673
Std Dev 3.332

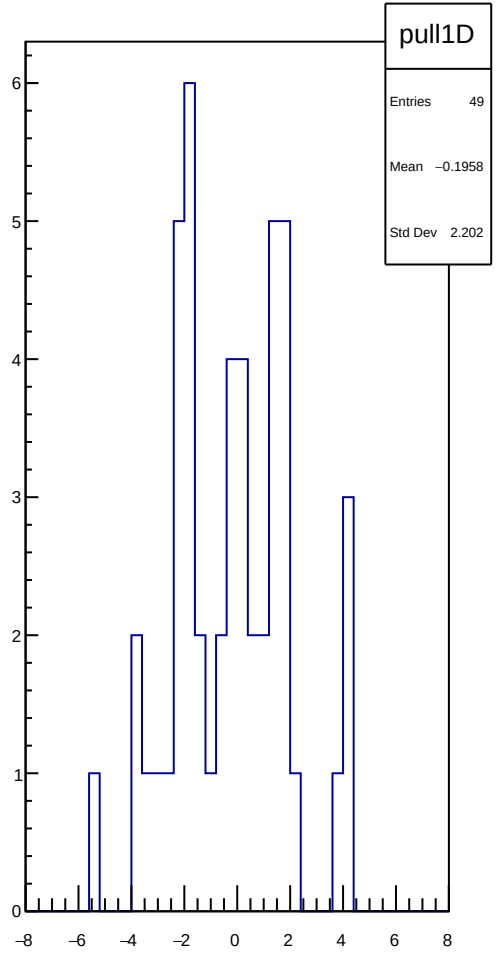

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 141.2 / 48
p0 46.23 ± 0.4985
pull
Entries 49
Mean 146.2
Std Dev 120.4
pull1D
Entries 49
Mean 0.1263
Std Dev 1.693

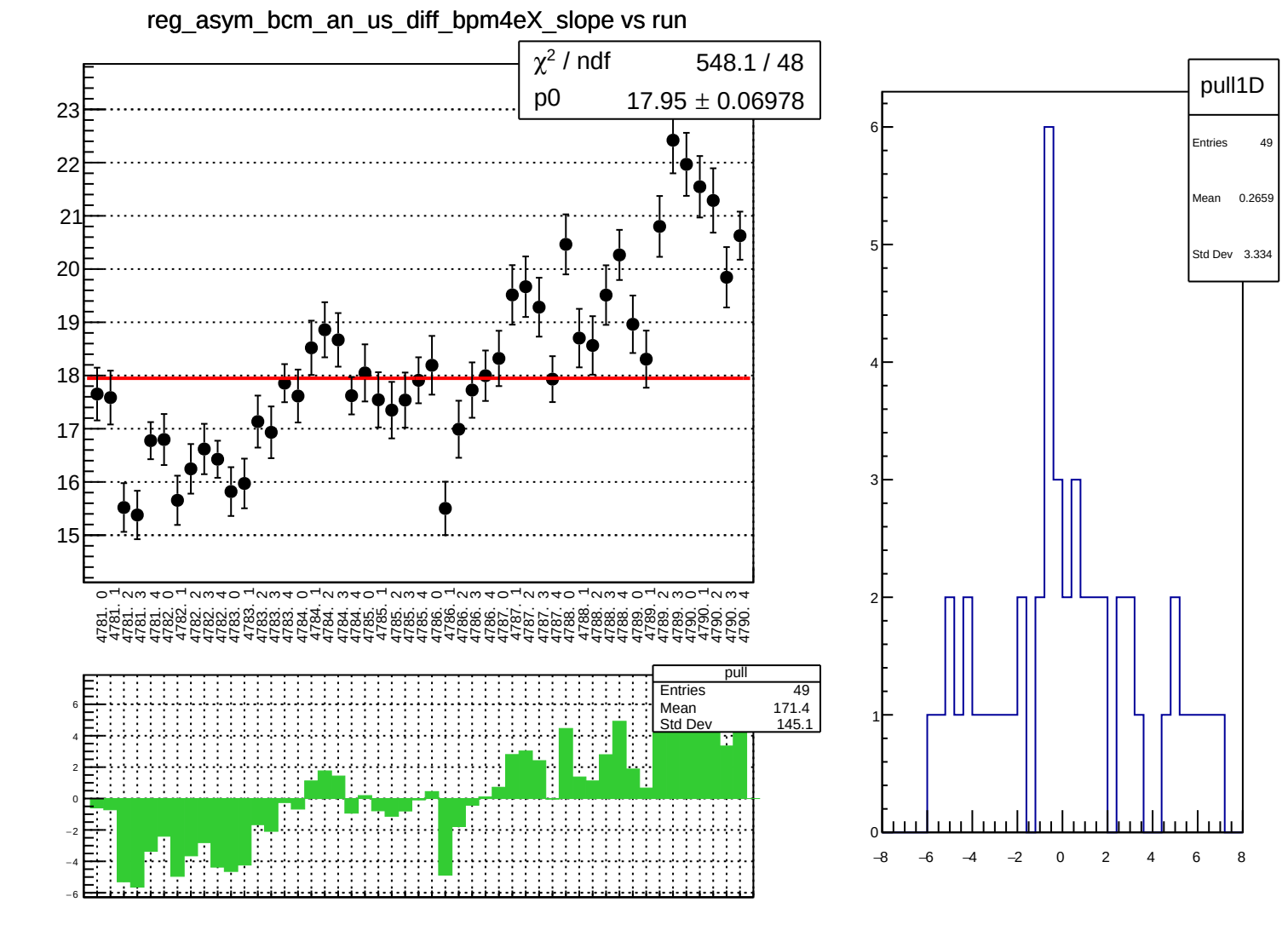

reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 226.1 / 48
p0 13.62 ± 0.1053
pull
Entries 49
Mean 144.9
Std Dev 117.8
pull1D
Entries 49
Mean 0.1606
Std Dev 2.142

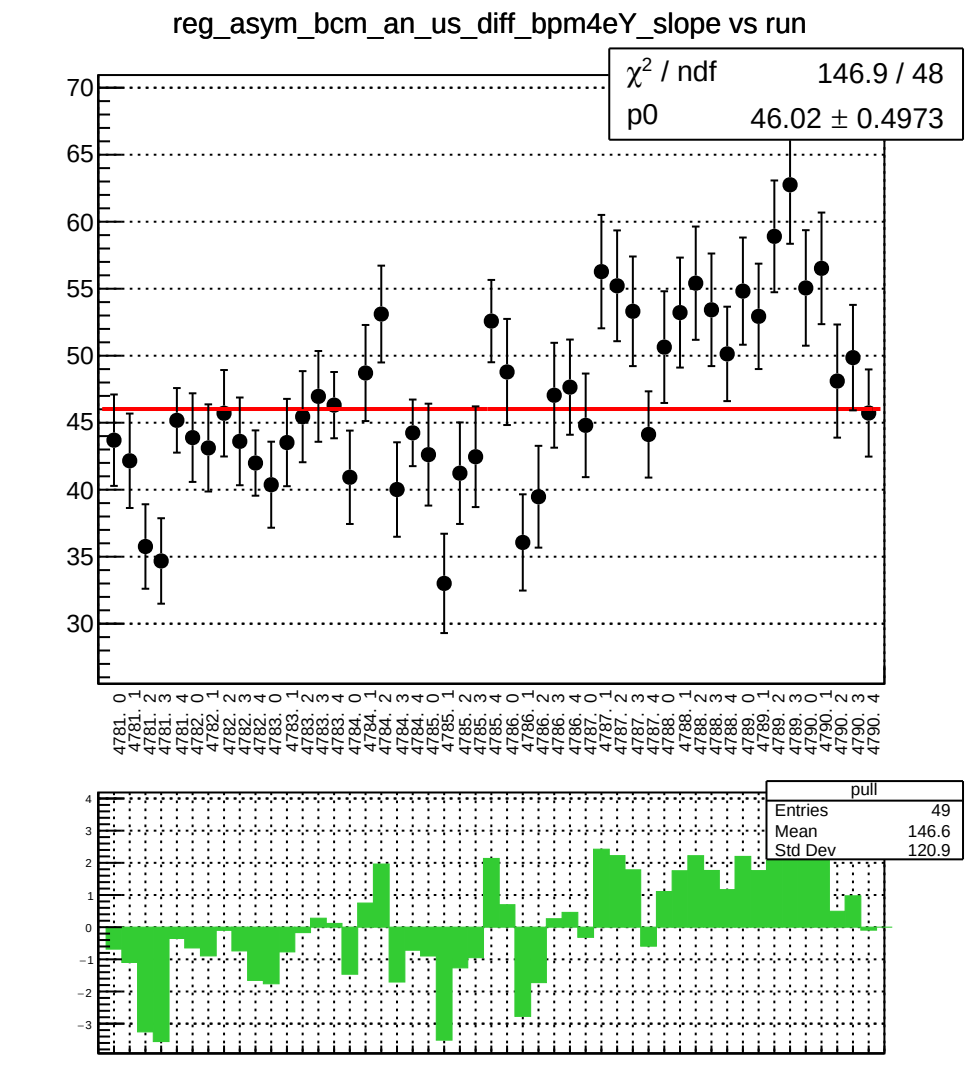

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 323 / 48
p0 −72.56 ± 0.3618
pull
Entries 49
Mean 148.8
Std Dev 120.2

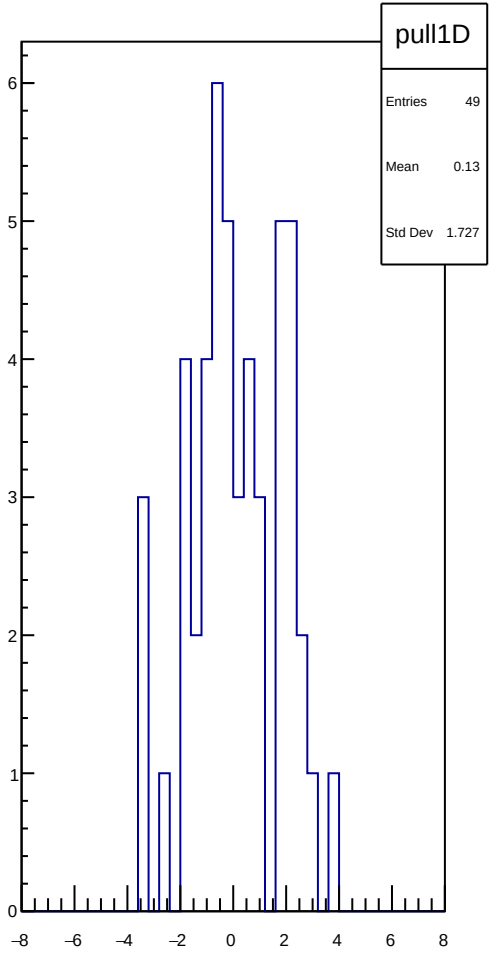

pull1D
Entries 49
Mean −0.1858
Std Dev 2.561

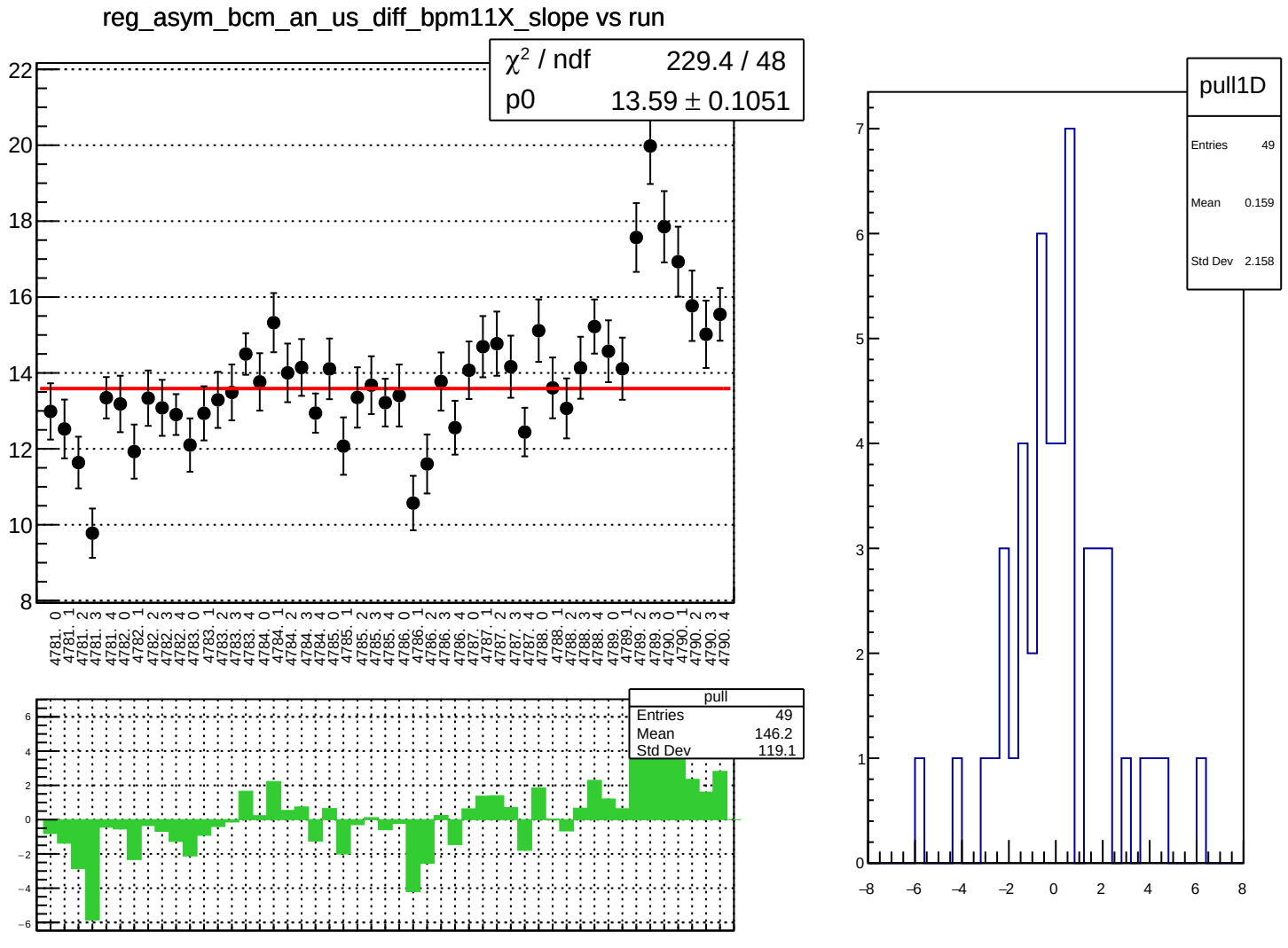

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 239.4 / 48
p0 −51.14 ± 0.4125
pull
Entries 49
Mean 138
Std Dev 111.4

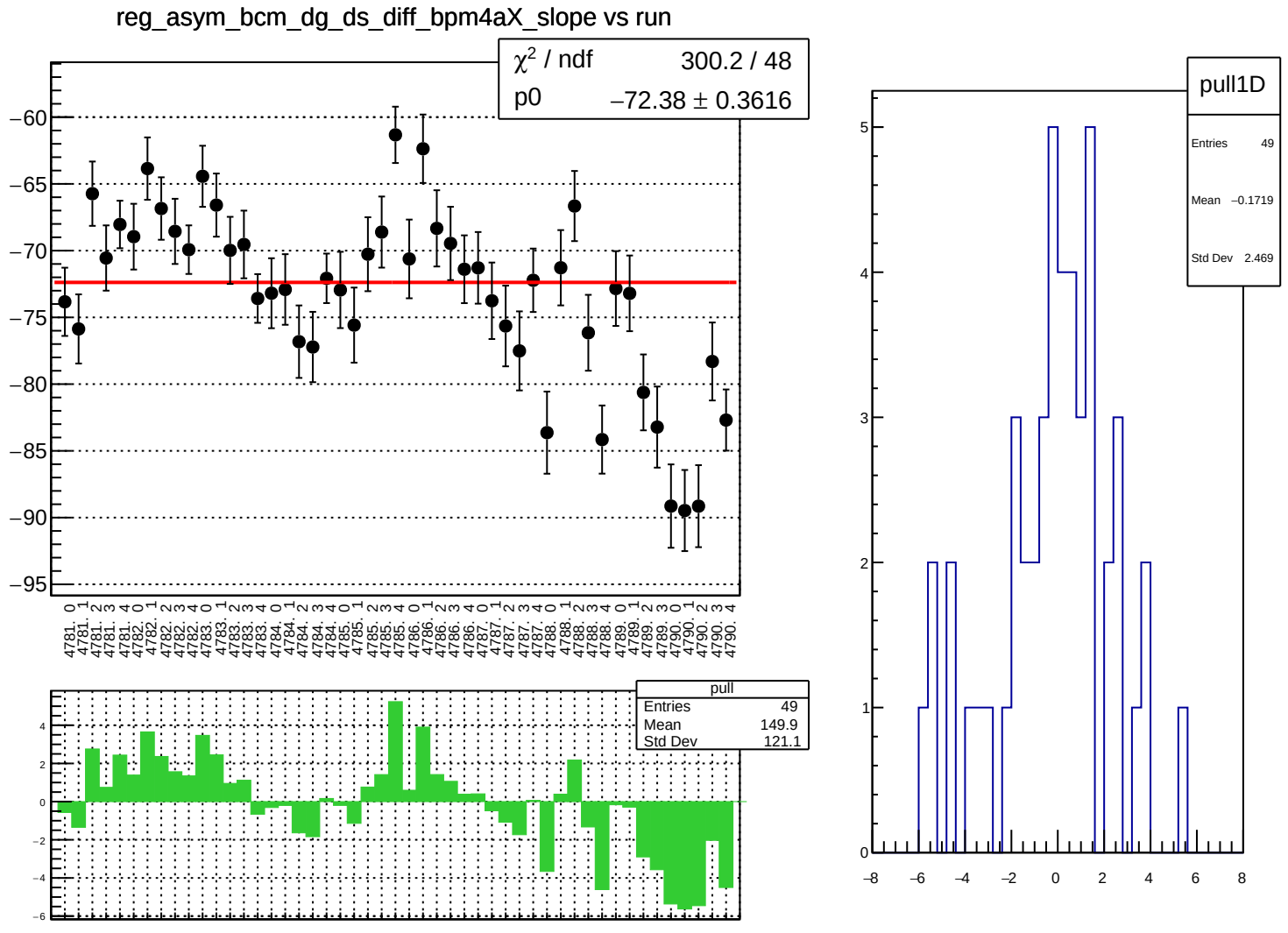

pull1D
Entries 49
Mean −0.1958
Std Dev 2.202

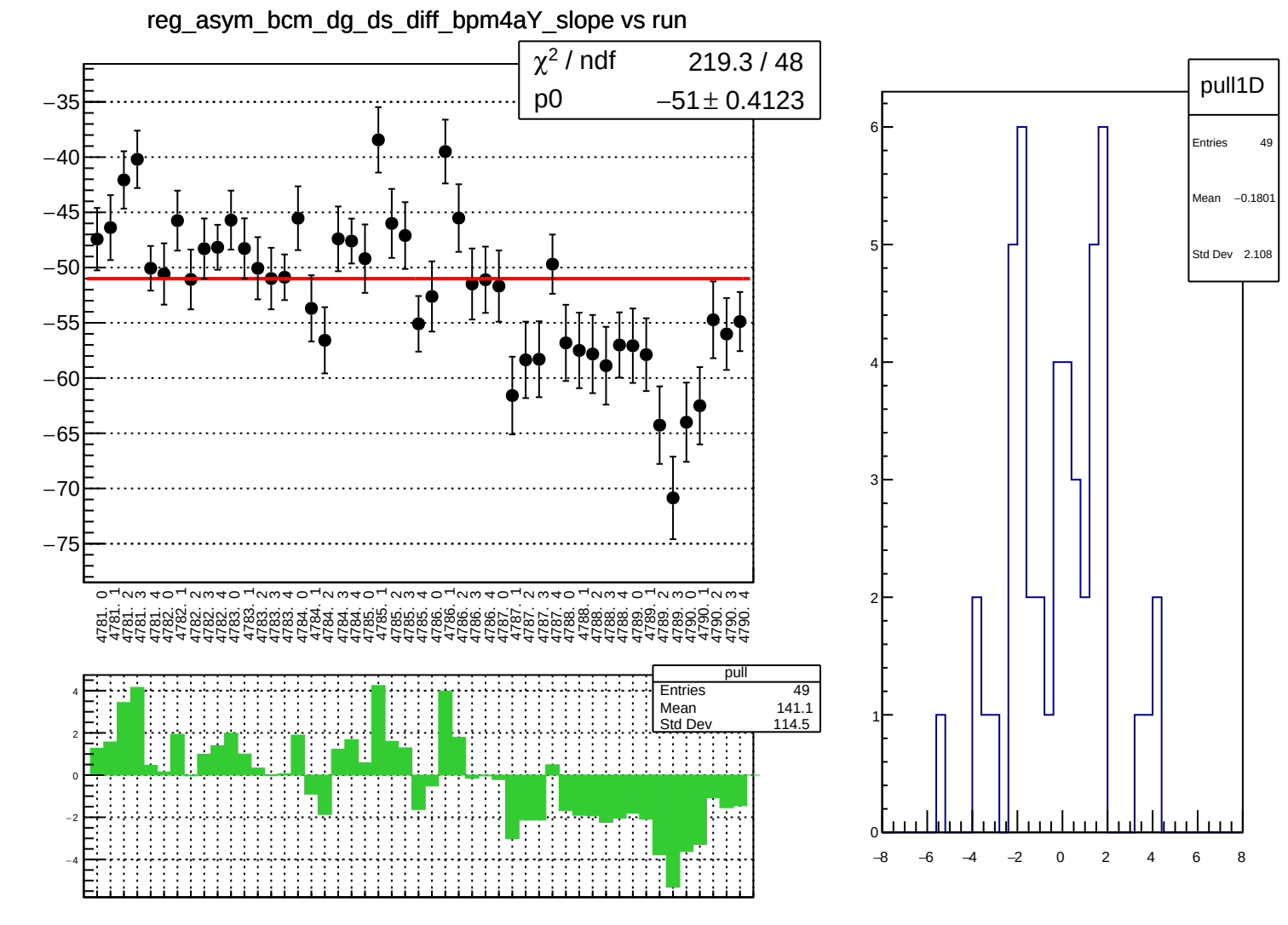

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 548.1 / 48
p0 17.95 ± 0.06978
pull
Entries 49
Mean 171.4
Std Dev 145.1
pull1D
Entries 49
Mean 0.2659
Std Dev 3.334

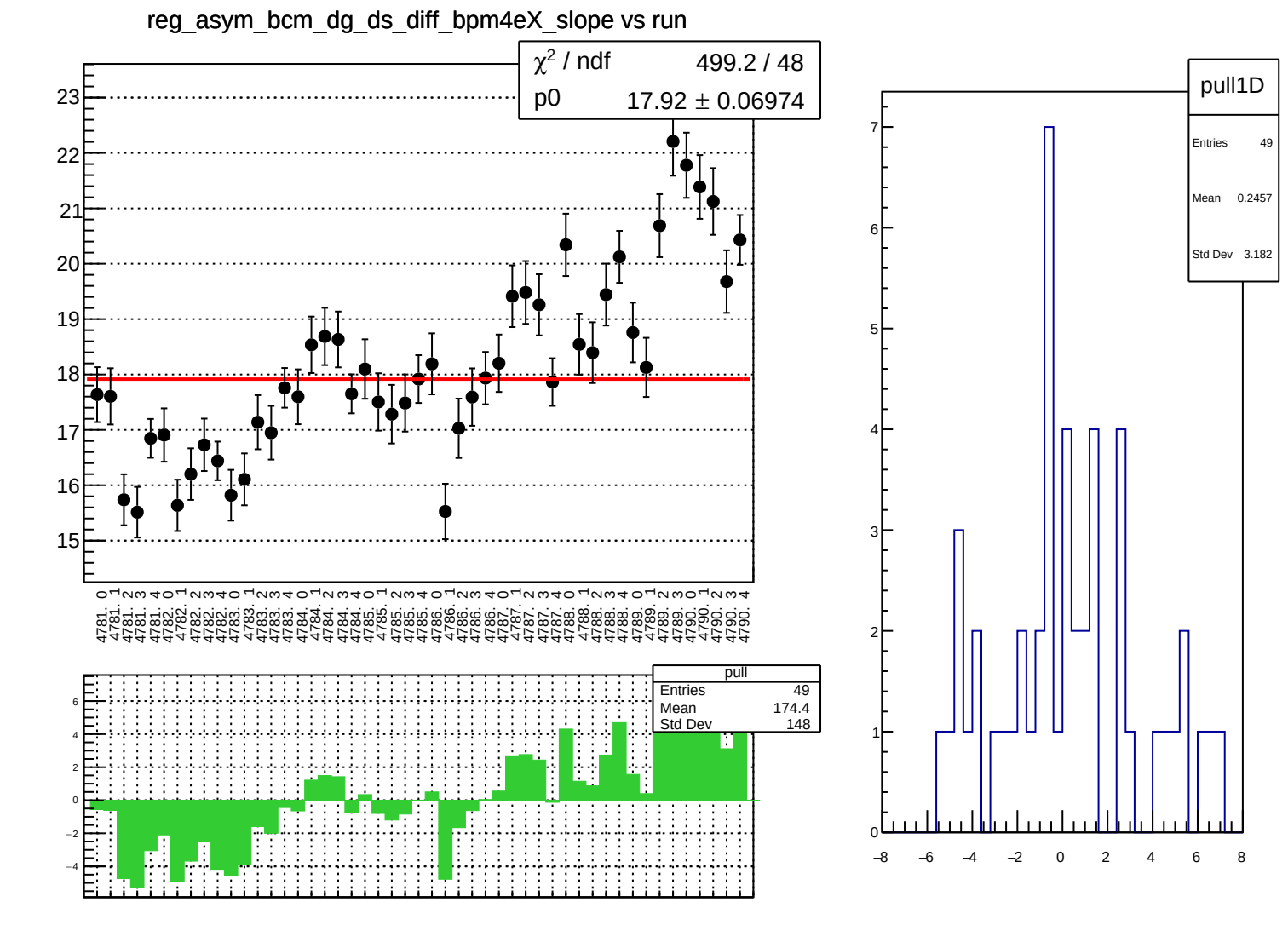

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 146.9 / 48
p0 46.02 ± 0.4973
pull
Entries 49
Mean 146.6
Std Dev 120.9

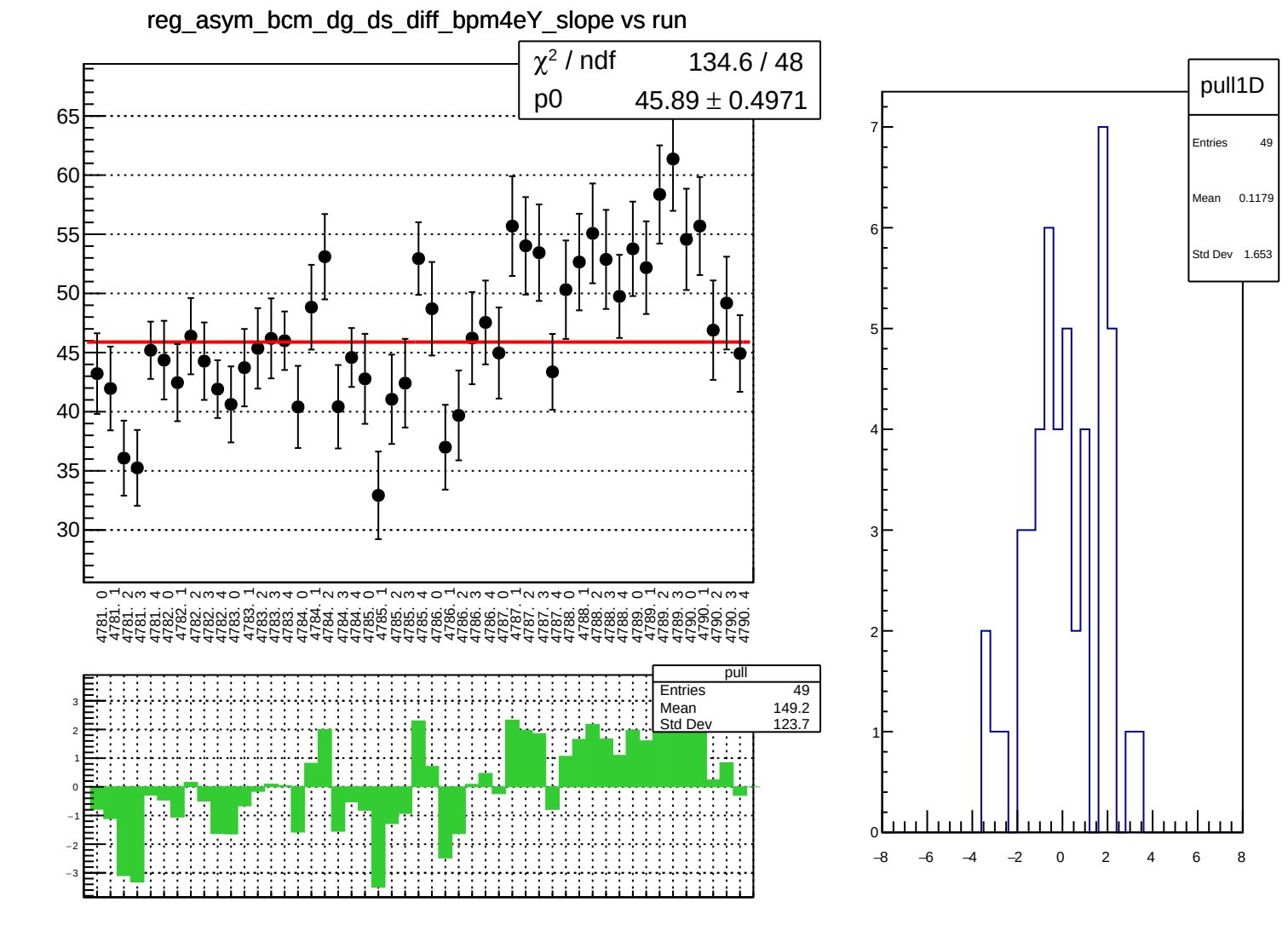

pull1D
Entries 49
Mean 0.13
Std Dev 1.727

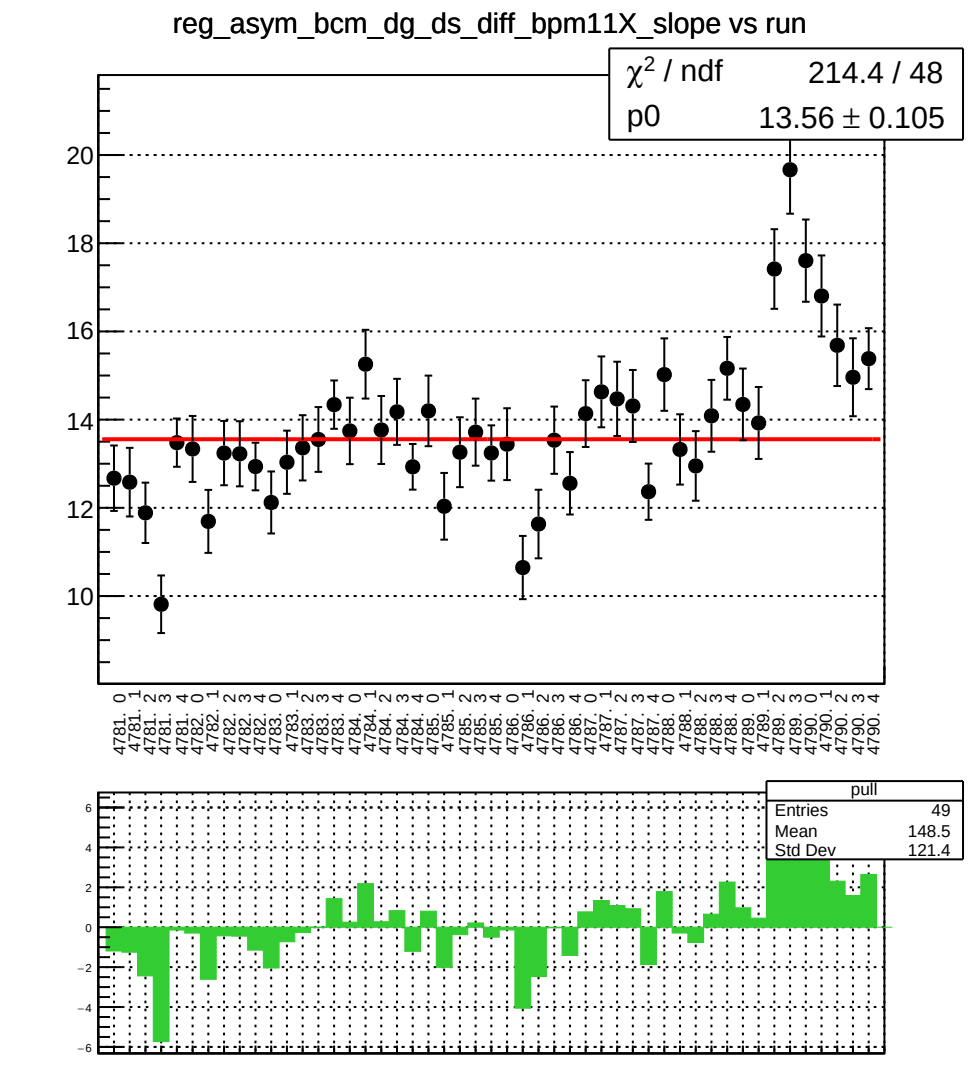

reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 229.4 / 48
p0 13.59 ± 0.1051
pull
Entries 49
Mean 146.2
Std Dev 119.1
pull1D
Entries 49
Mean 0.159
Std Dev 2.158

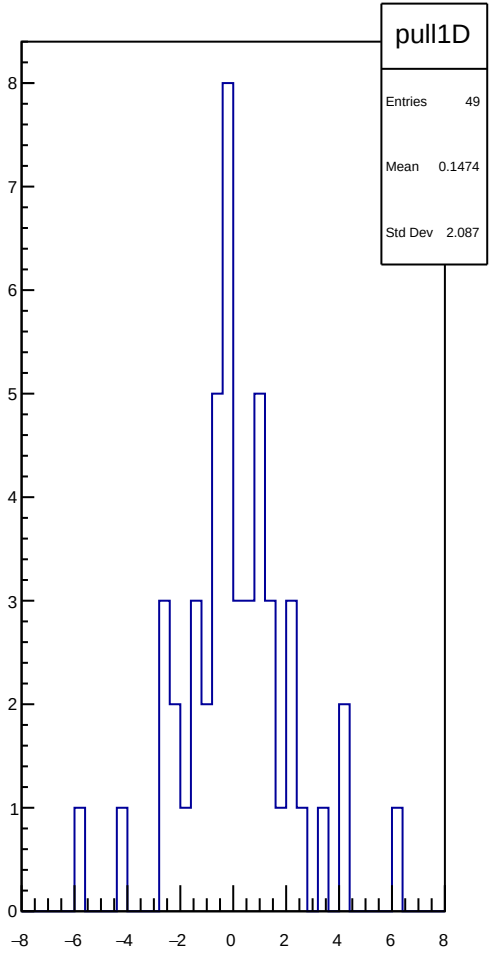

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 300.2 / 48
p0 −72.38 ± 0.3616
pull
Entries 49
Mean 149.9
Std Dev 121.1
pull1D
Entries 49
Mean −0.1719
Std Dev 2.469

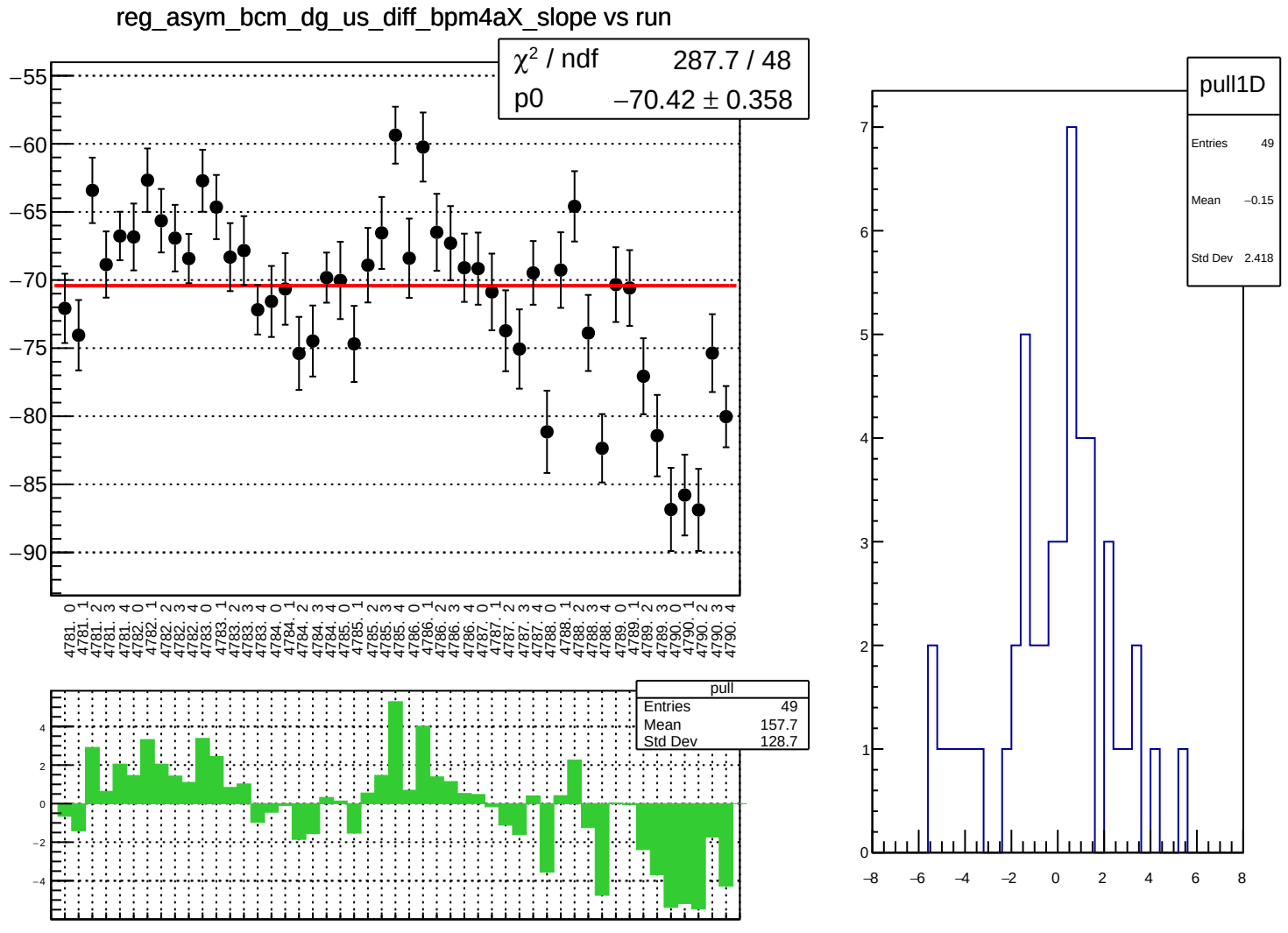

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 219.3 / 48
p0 −51 ± 0.4123
pull
Entries 49
Mean 141.1
Std Dev 114.5
pull1D
Entries 49
Mean −0.1801
Std Dev 2.108

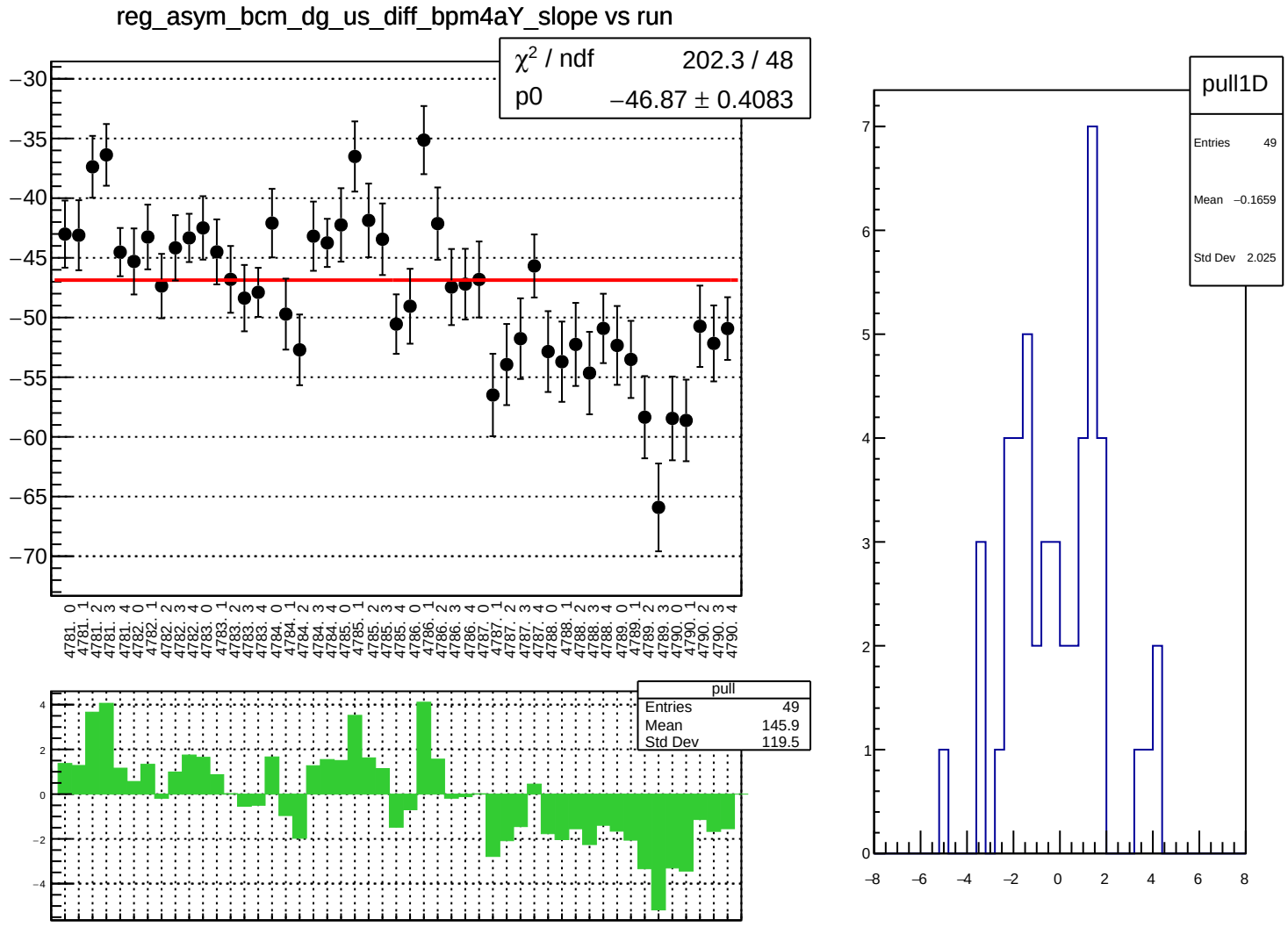

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 499.2 / 48
p0 17.92 ± 0.06974
pull
Entries 49
Mean 174.4
Std Dev 148
pull1D
Entries 49
Mean 0.2457
Std Dev 3.182

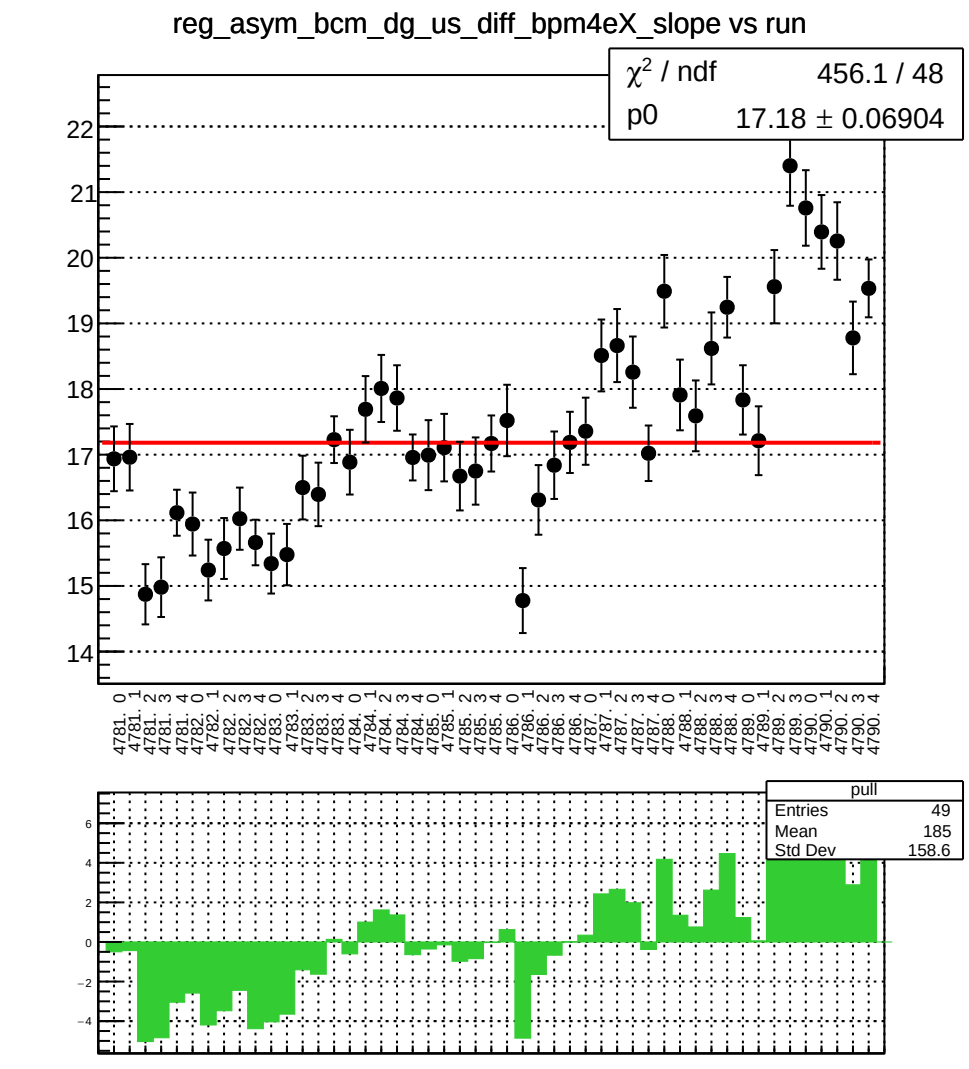

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 134.6 / 48
p0 45.89 ± 0.4971
pull
Entries 49
Mean 149.2
Std Dev 123.7
pull1D
Entries 49
Mean 0.1179
Std Dev 1.653

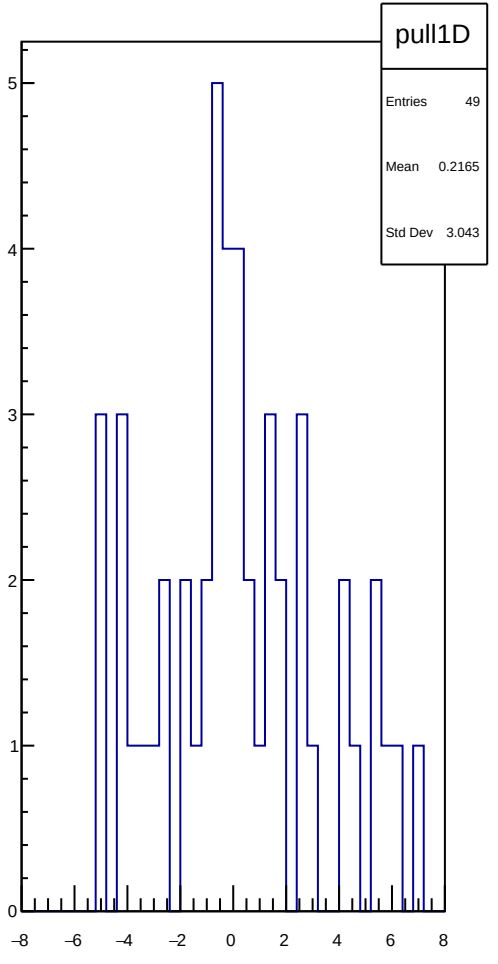

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 214.4 / 48
p0 13.56 ± 0.105
pull
Entries 49
Mean 148.5
Std Dev 121.4

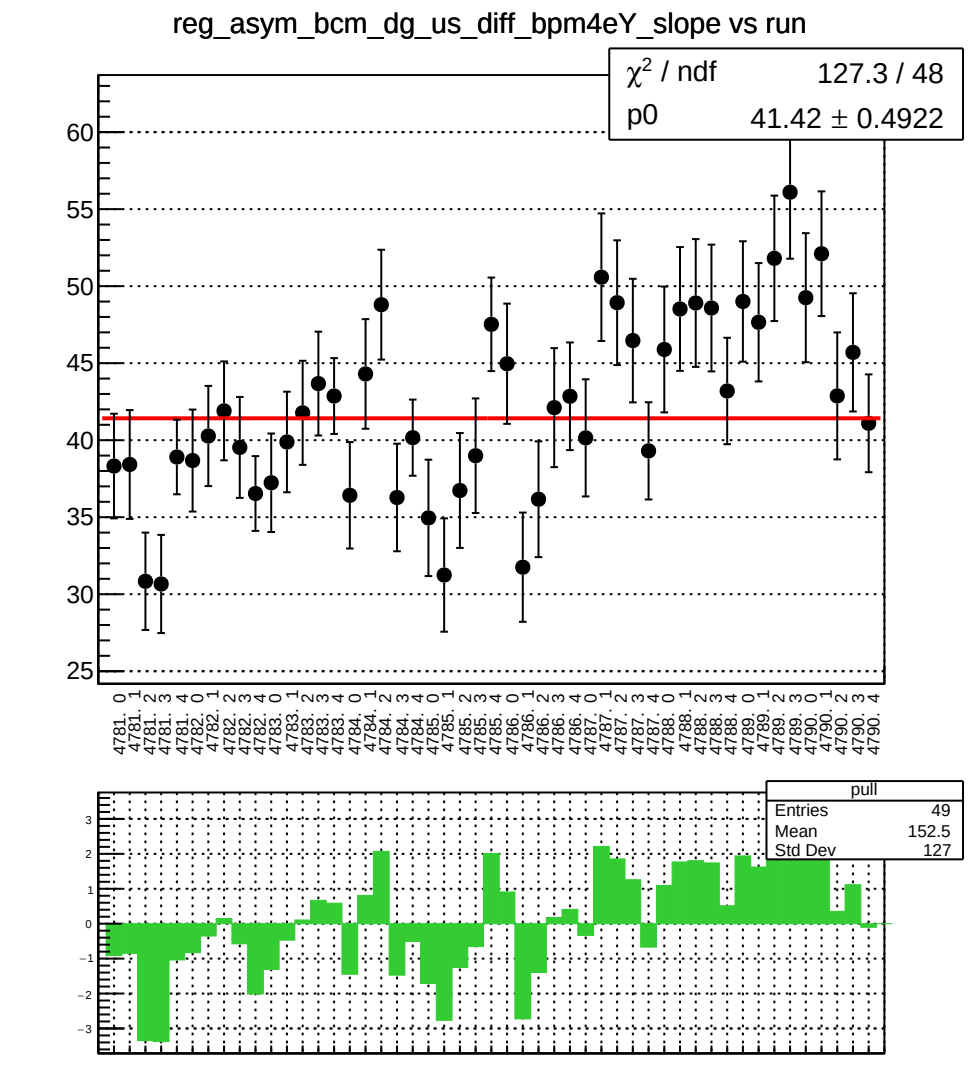

pull1D
Entries 49
Mean 0.1474
Std Dev 2.087

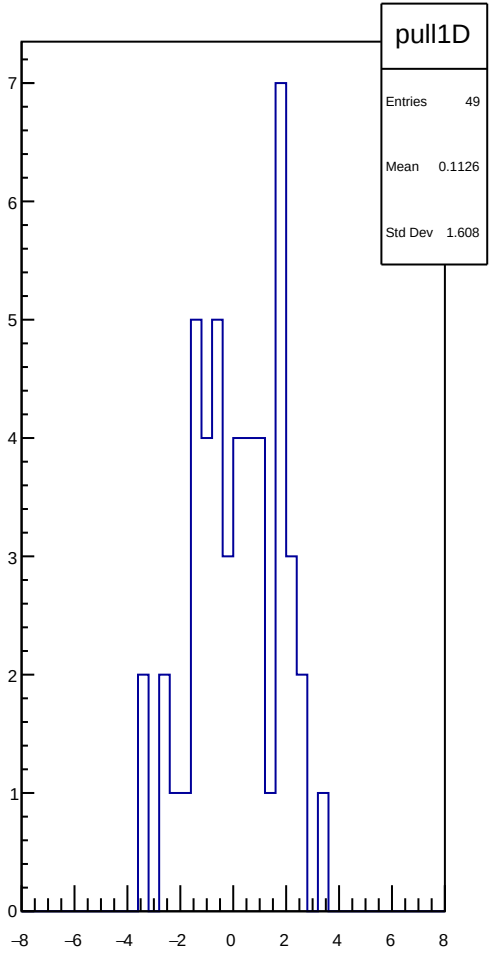

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 287.7 / 48
p0 −70.42 ± 0.358
pull
Entries 49
Mean 157.7
Std Dev 128.7
pull1D
Entries 49
Mean −0.15
Std Dev 2.418

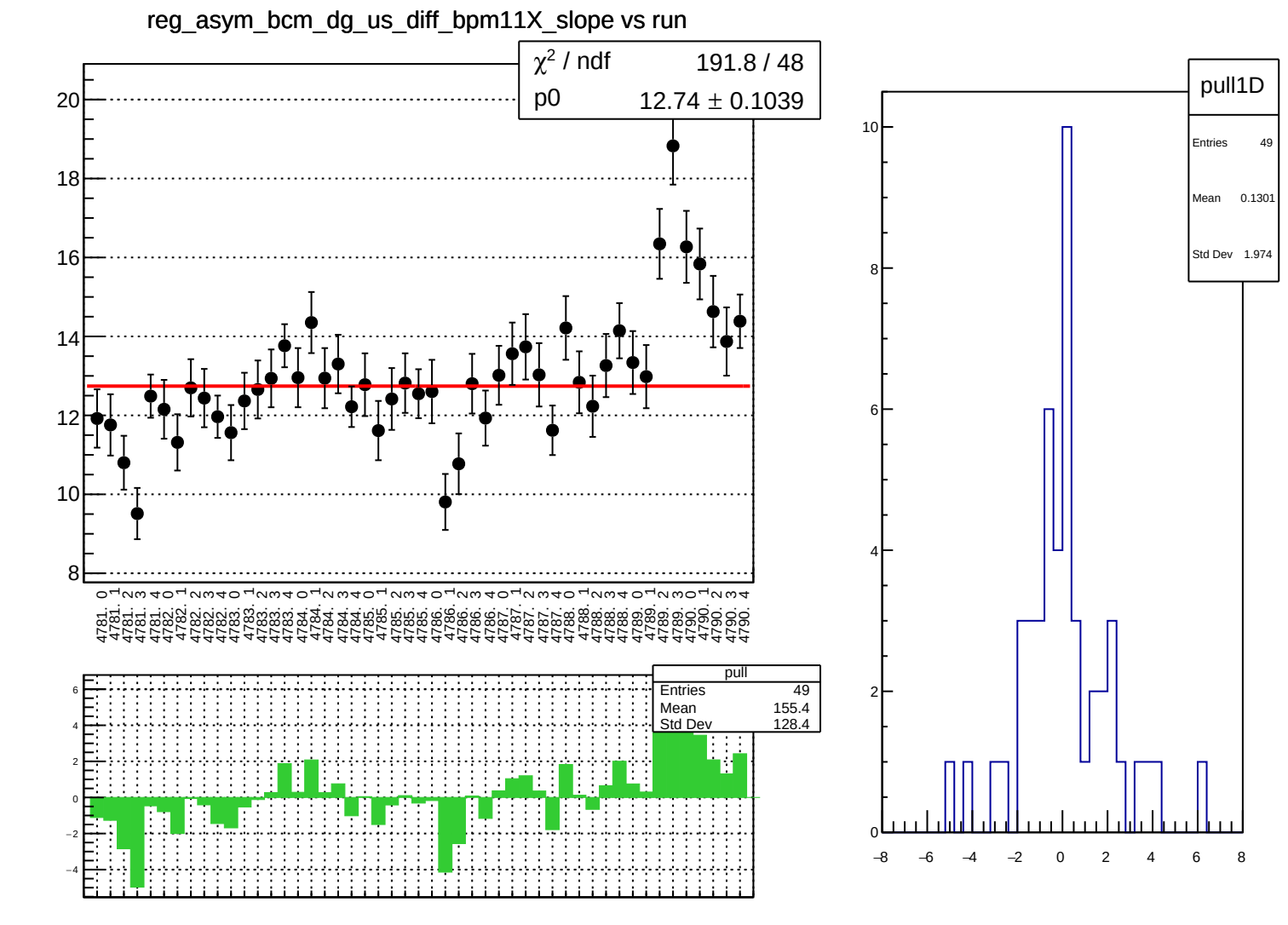

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 202.3 / 48
p0 −46.87 ± 0.4083
pull
Entries 49
Mean 145.9
Std Dev 119.5
pull1D
Entries 49
Mean −0.1659
Std Dev 2.025

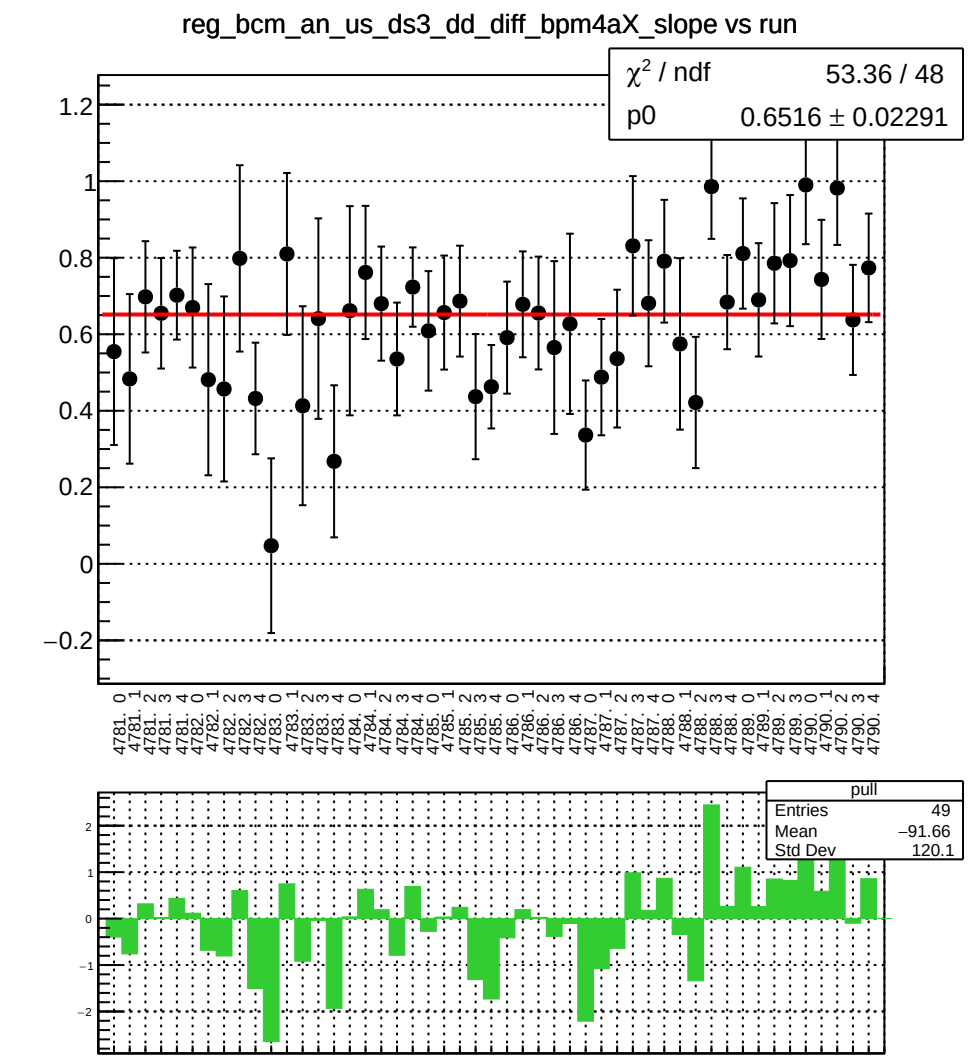

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 456.1 / 48
p0 17.18 ± 0.06904
pull
Entries 49
Mean 185
Std Dev 158.6

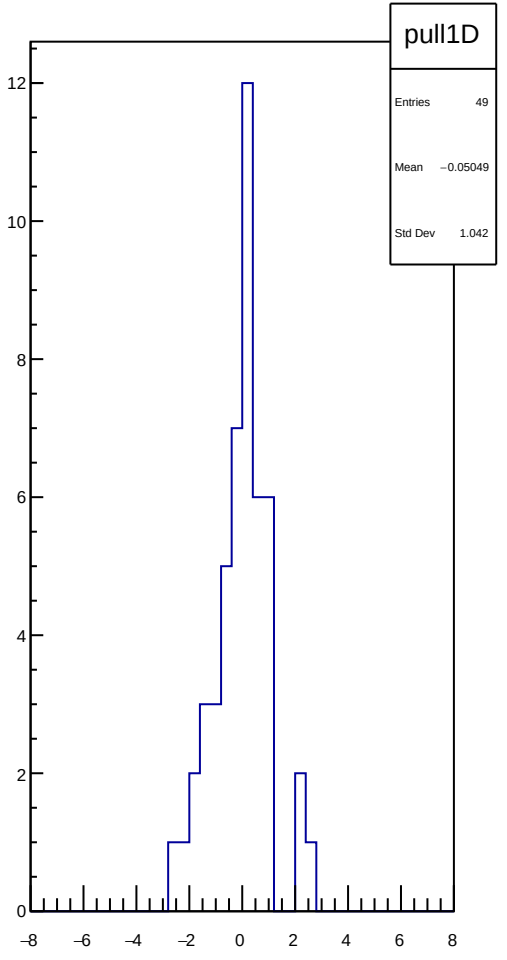

pull1D
Entries 49
Mean 0.2165
Std Dev 3.043

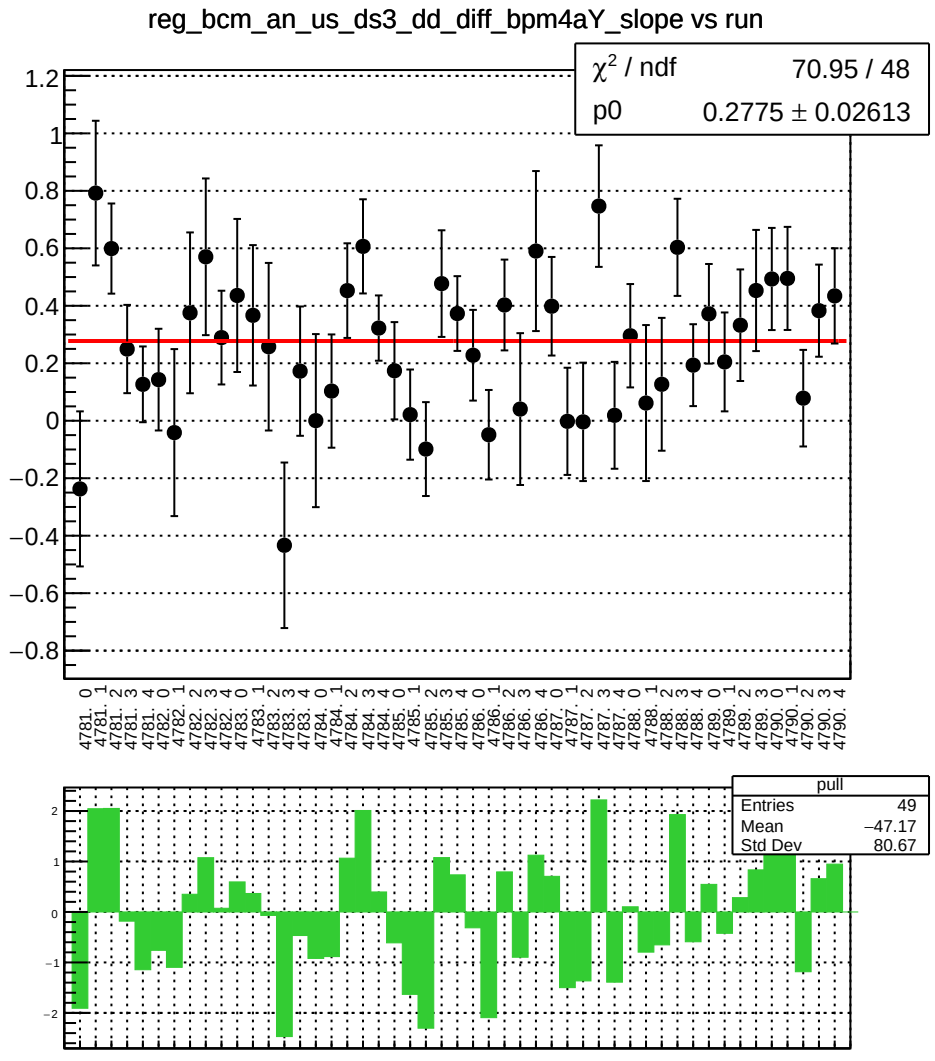

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 127.3 / 48
p0 41.42 ± 0.4922
pull
Entries 49
Mean 152.5
Std Dev 127

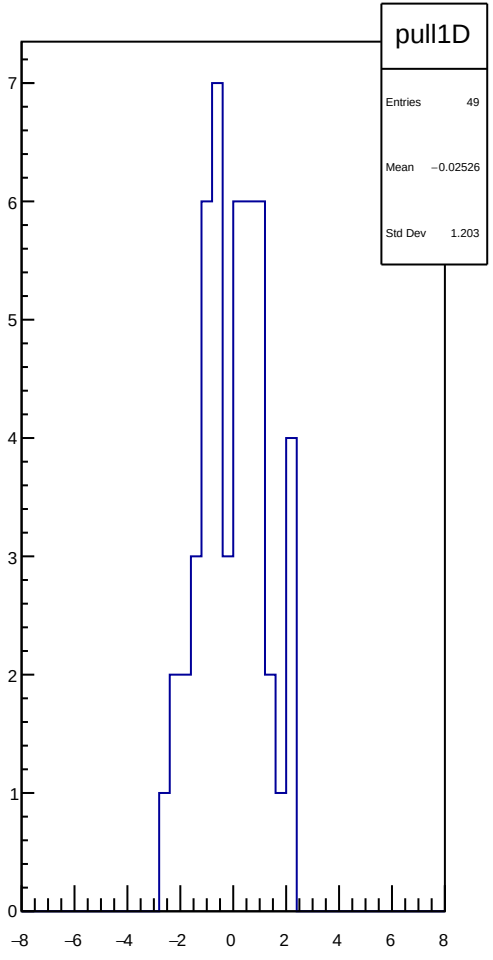

pull1D
Entries 49
Mean 0.1126
Std Dev 1.608

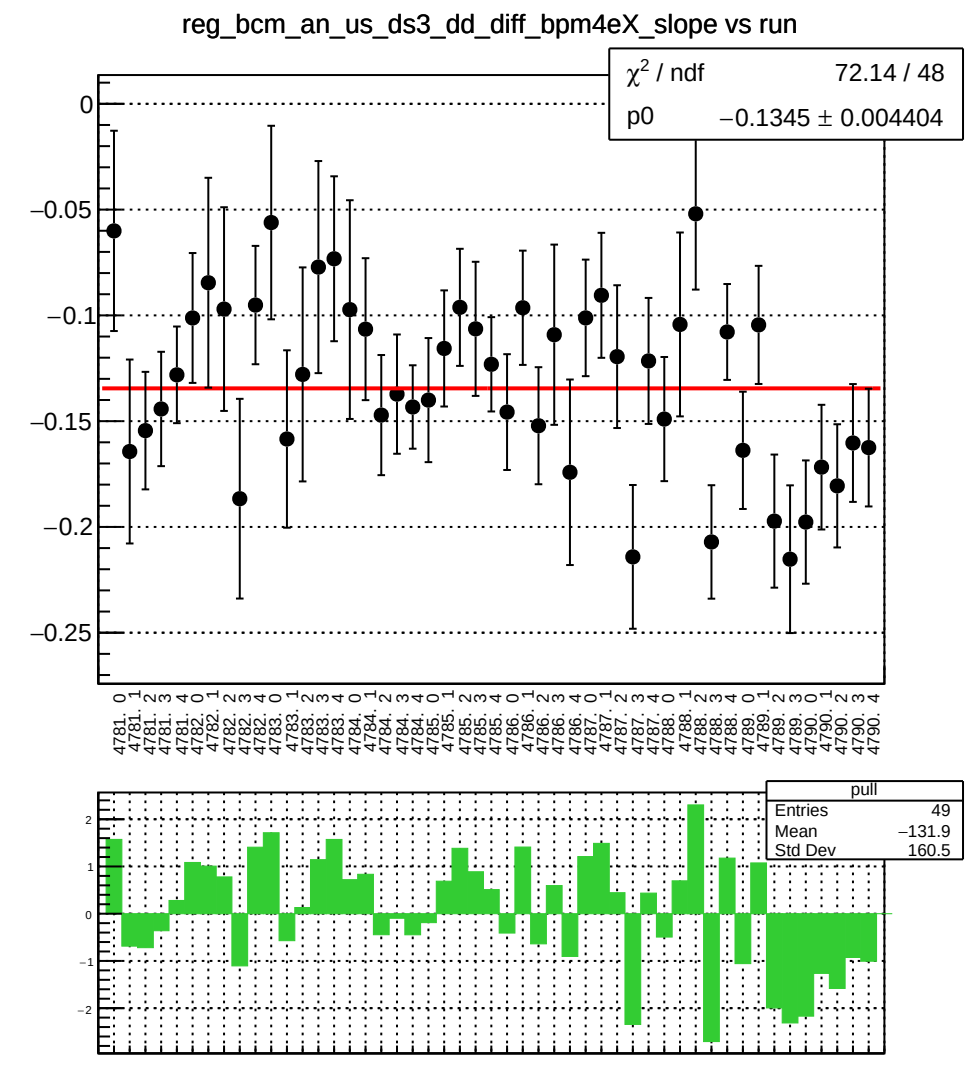

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 191.8 / 48
p0 12.74 ± 0.1039
pull
Entries 49
Mean 155.4
Std Dev 128.4
pull1D
Entries 49
Mean 0.1301
Std Dev 1.974

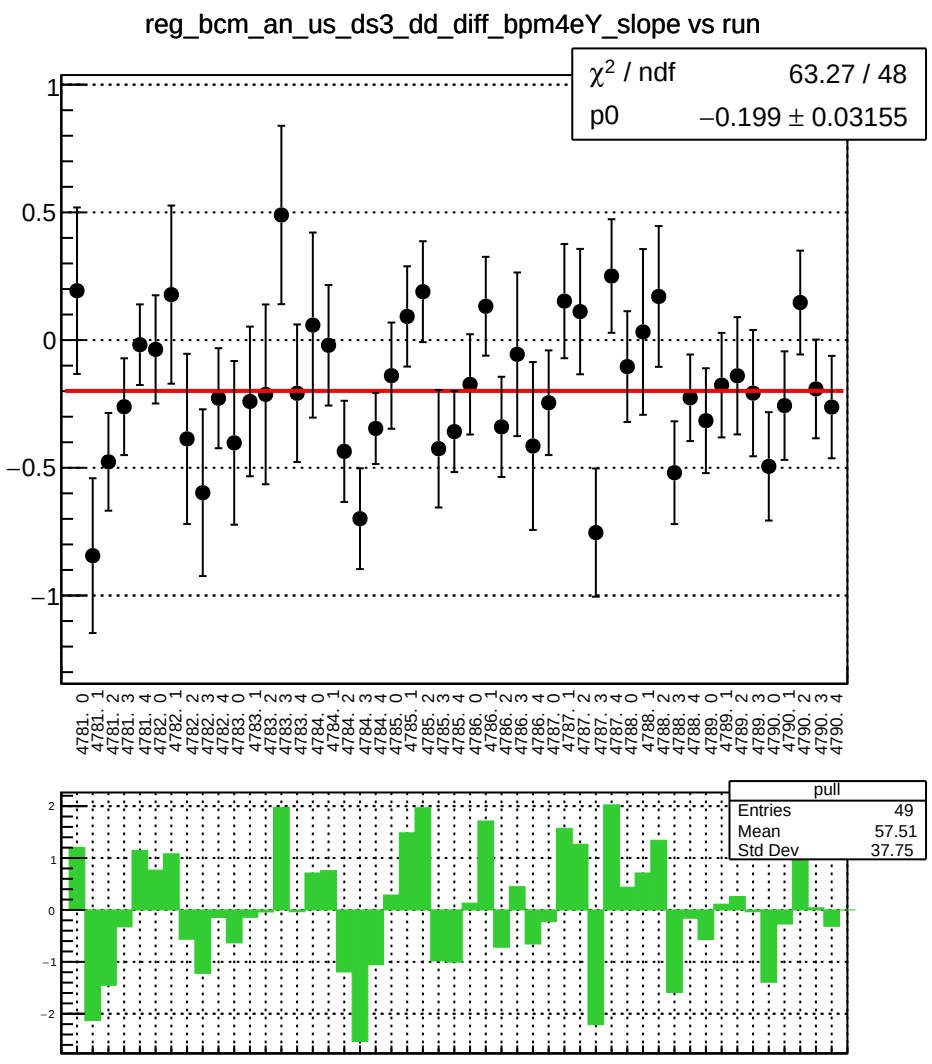

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 53.36 / 48
p0 0.6516 ± 0.02291
pull
Entries 49
Mean −91.66
Std Dev 120.1

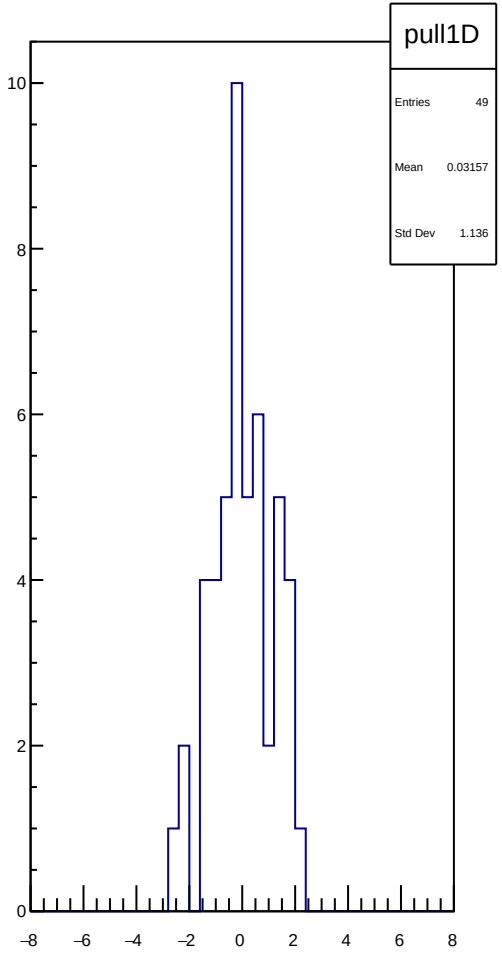

pull1D
Entries 49
Mean −0.05049
Std Dev 1.042

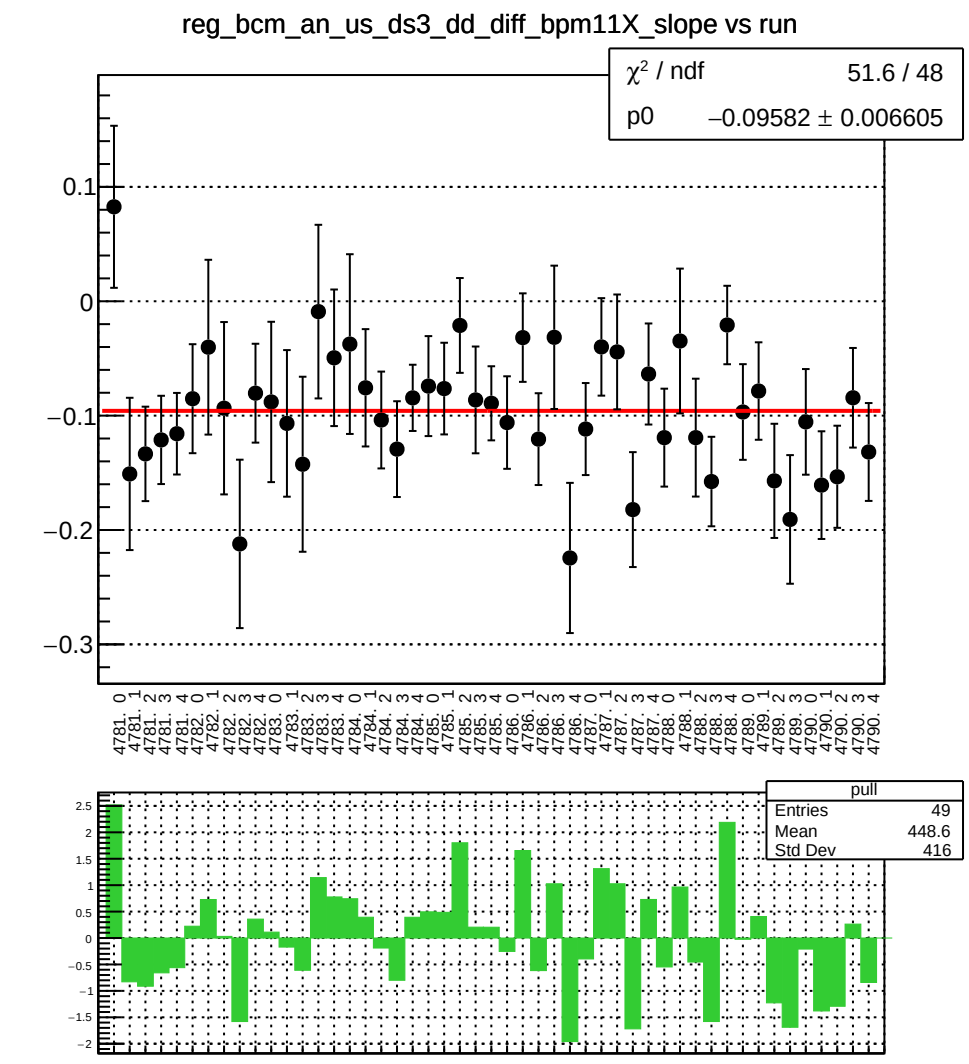

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 70.95 / 48
p0 0.2775 ± 0.02613
pull
Entries 49
Mean −47.17
Std Dev 80.67

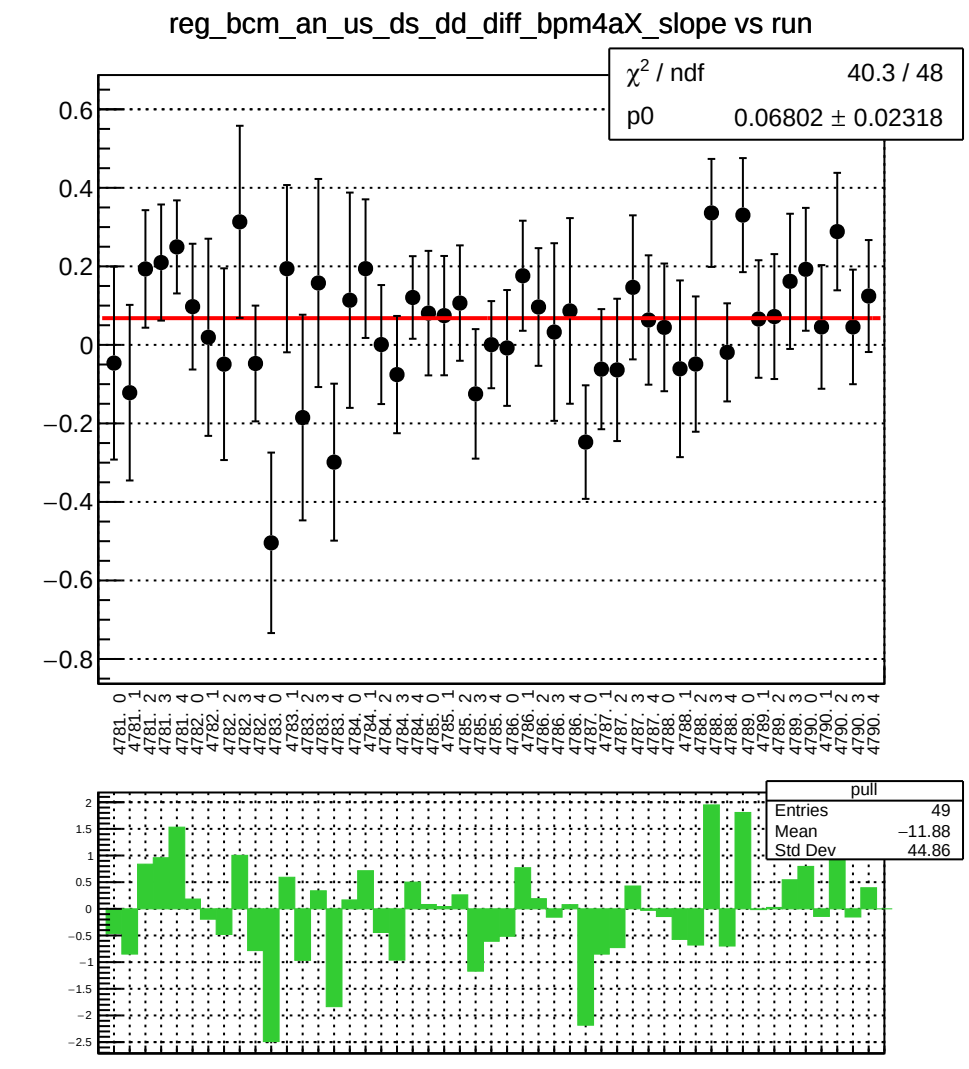

pull1D
Entries 49
Mean −0.02526
Std Dev 1.203

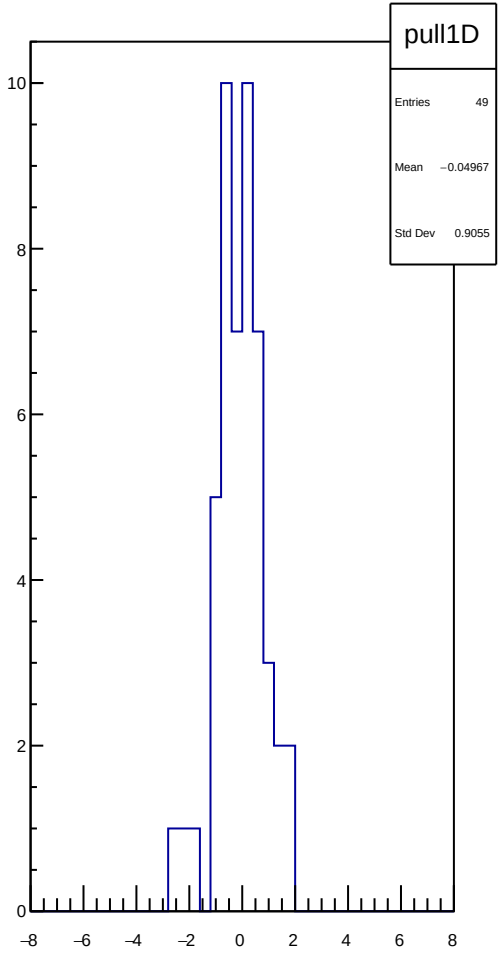

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 72.14 / 48
p0 −0.1345 ± 0.004404
0
−0.05
−0.1
−0.15
−0.2
−0.25
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −131.9
Std Dev 160.5
2
1
0
−1
−2
pull1D
Entries 49
Mean 0.04325
Std Dev 1.213
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

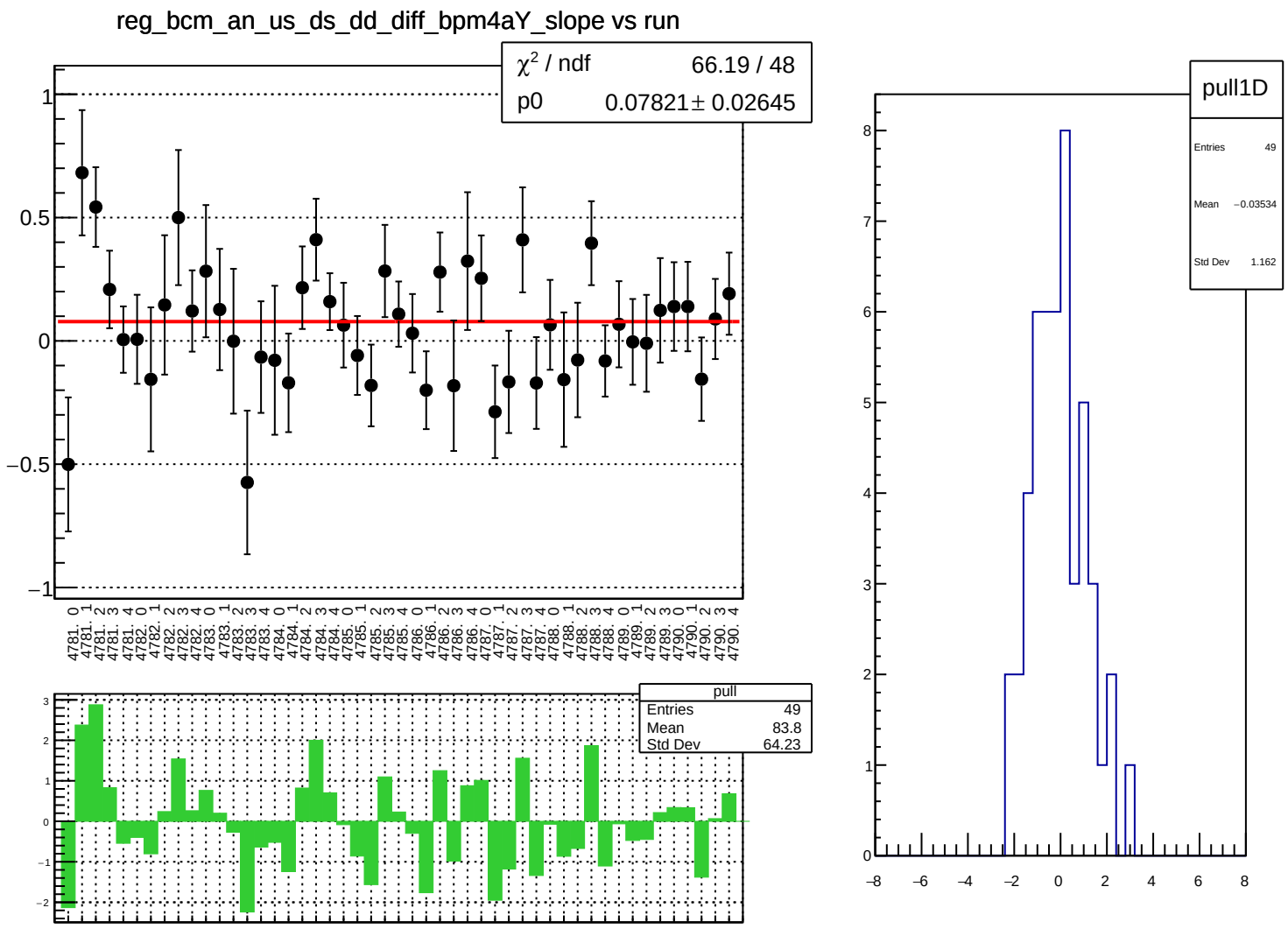

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 63.27 / 48
p0 −0.199 ± 0.03155
pull
Entries 49
Mean 57.51
Std Dev 37.75

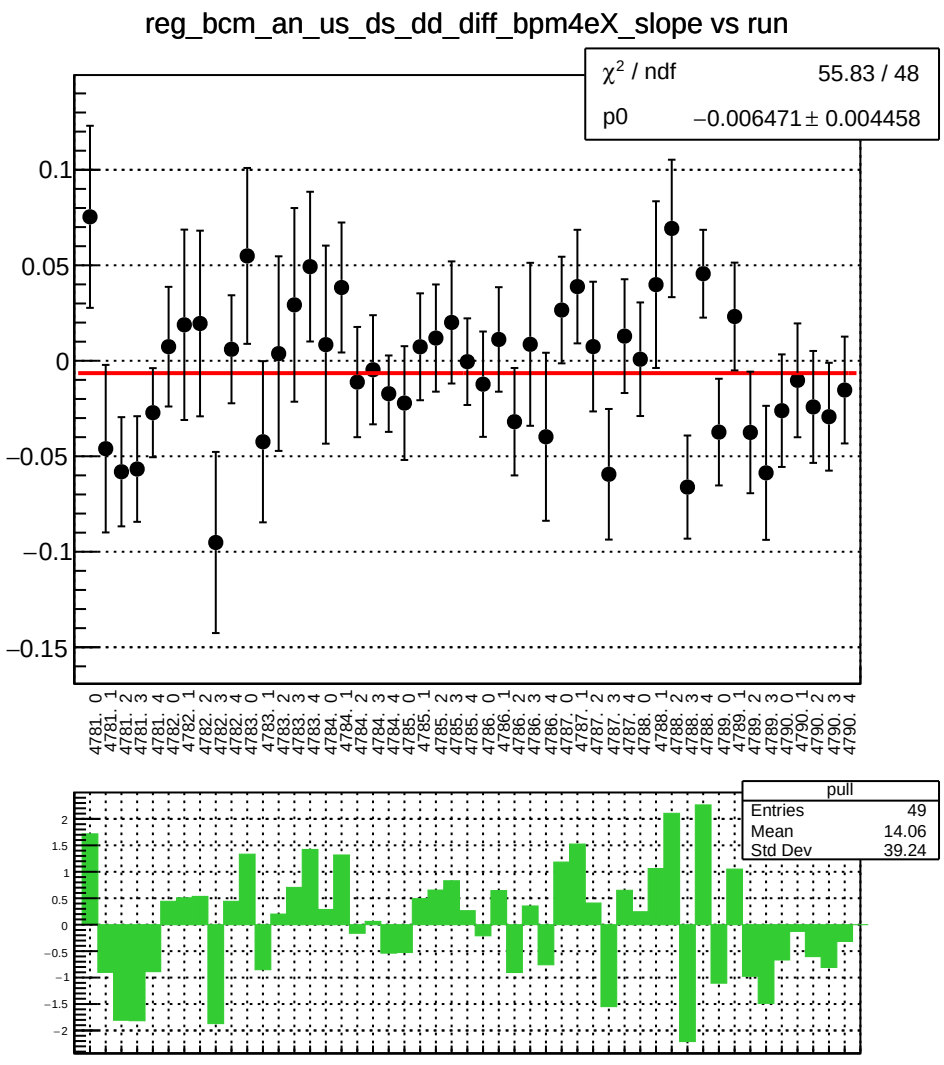

pull1D
Entries 49
Mean 0.03157
Std Dev 1.136

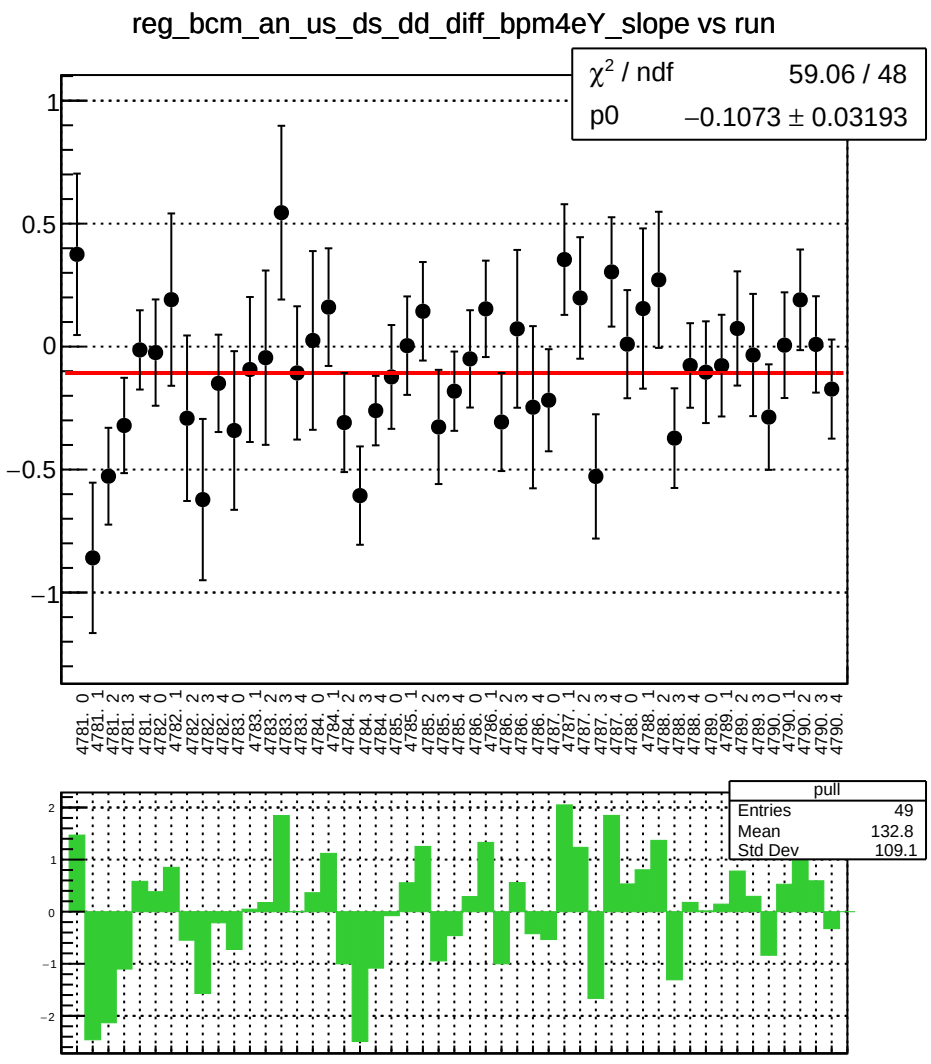

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 51.6 / 48
p0 −0.09582 ± 0.006605
0.1
0
−0.1
−0.2
−0.3
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 448.6
Std Dev 416
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean −0.006259
Std Dev 1.026
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

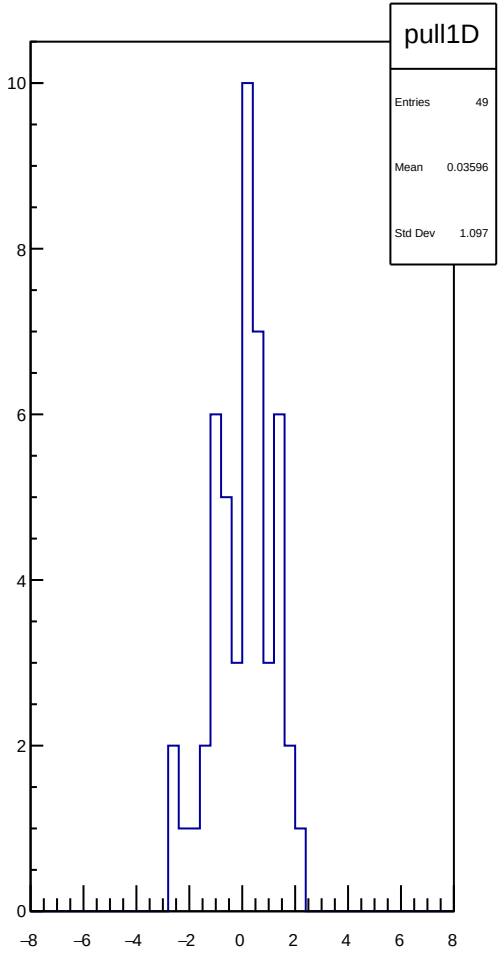

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 40.3 / 48
p0 0.06802 ± 0.02318
pull
Entries 49
Mean −11.88
Std Dev 44.86

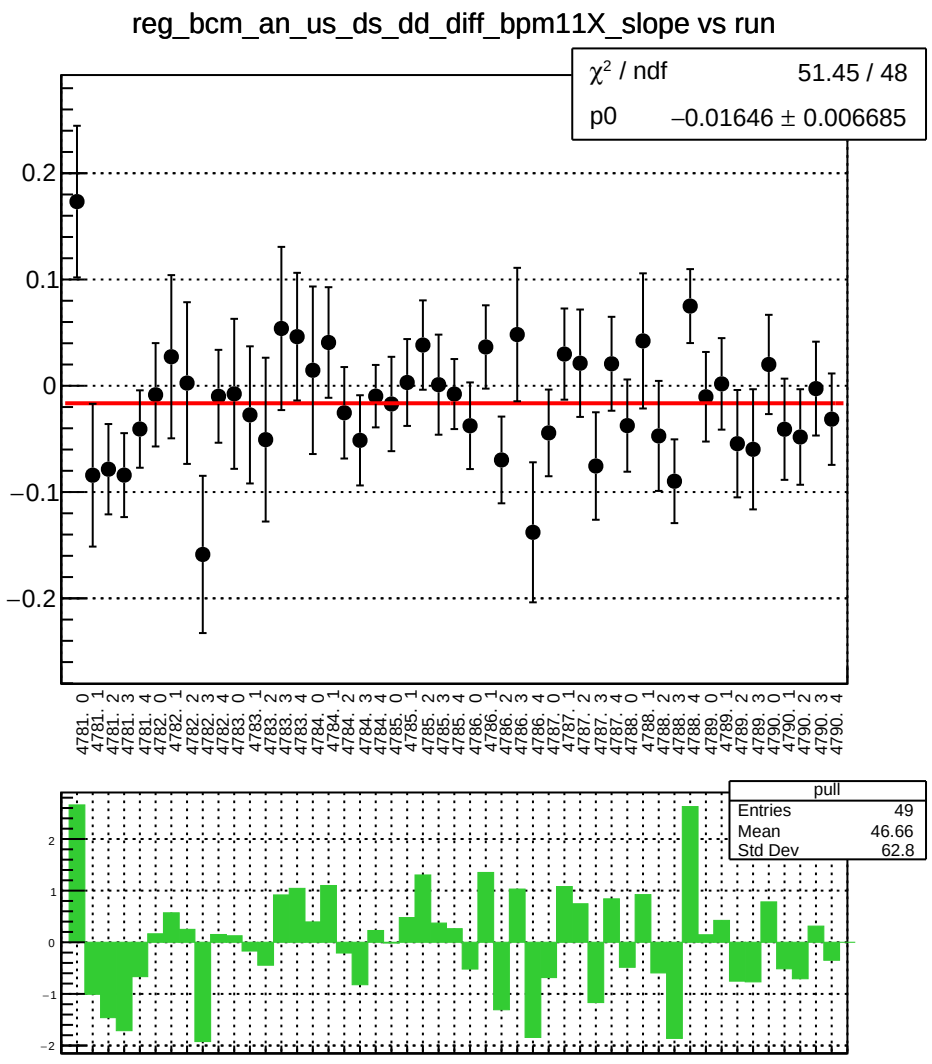

pull1D
Entries 49
Mean −0.04967
Std Dev 0.9055

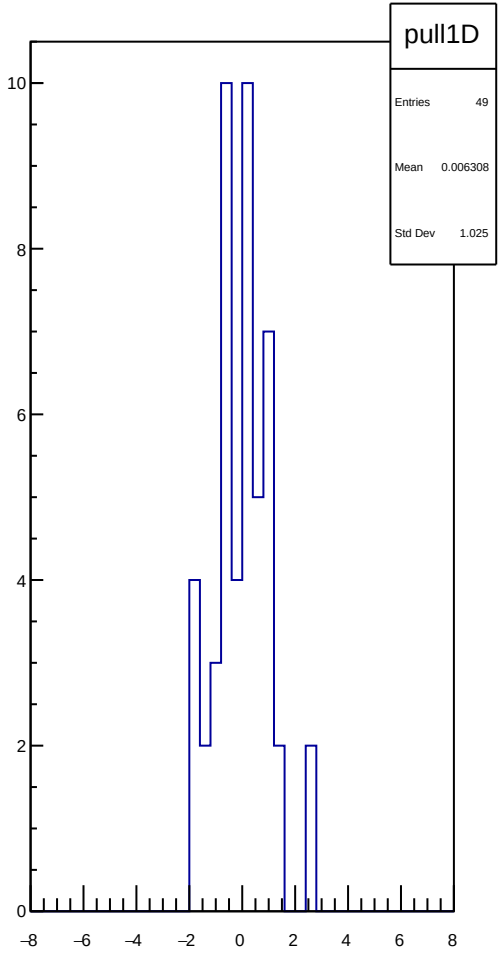

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 66.19 / 48
p0 0.07821 ± 0.02645
pull
Entries 49
Mean 83.8
Std Dev 64.23
pull1D
Entries 49
Mean −0.03534
Std Dev 1.162

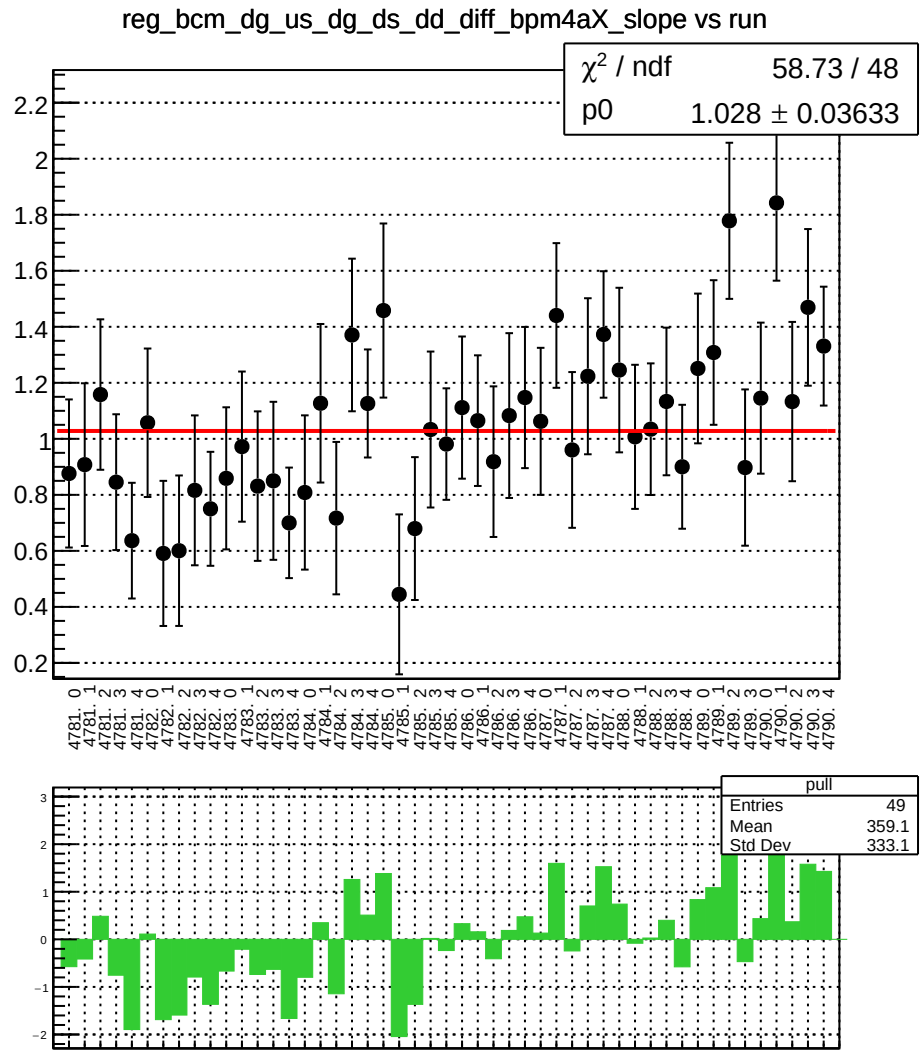

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 55.83 / 48
p0 −0.006471 ± 0.004458
0.1
0.05
0
−0.05
−0.1
−0.15
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean 14.06
Std Dev 39.24
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean 0.03329
Std Dev 1.067
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

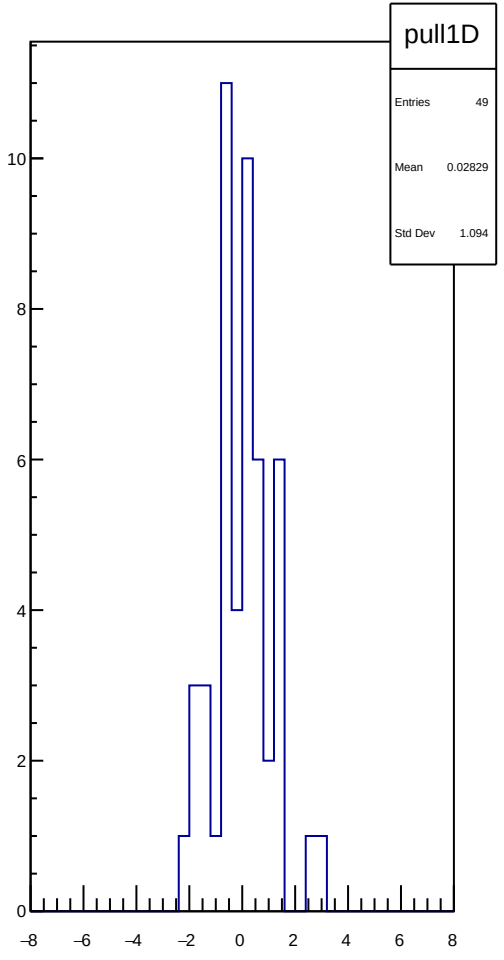

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.06 / 48
p0 −0.1073 ± 0.03193
pull
Entries 49
Mean 132.8
Std Dev 109.1

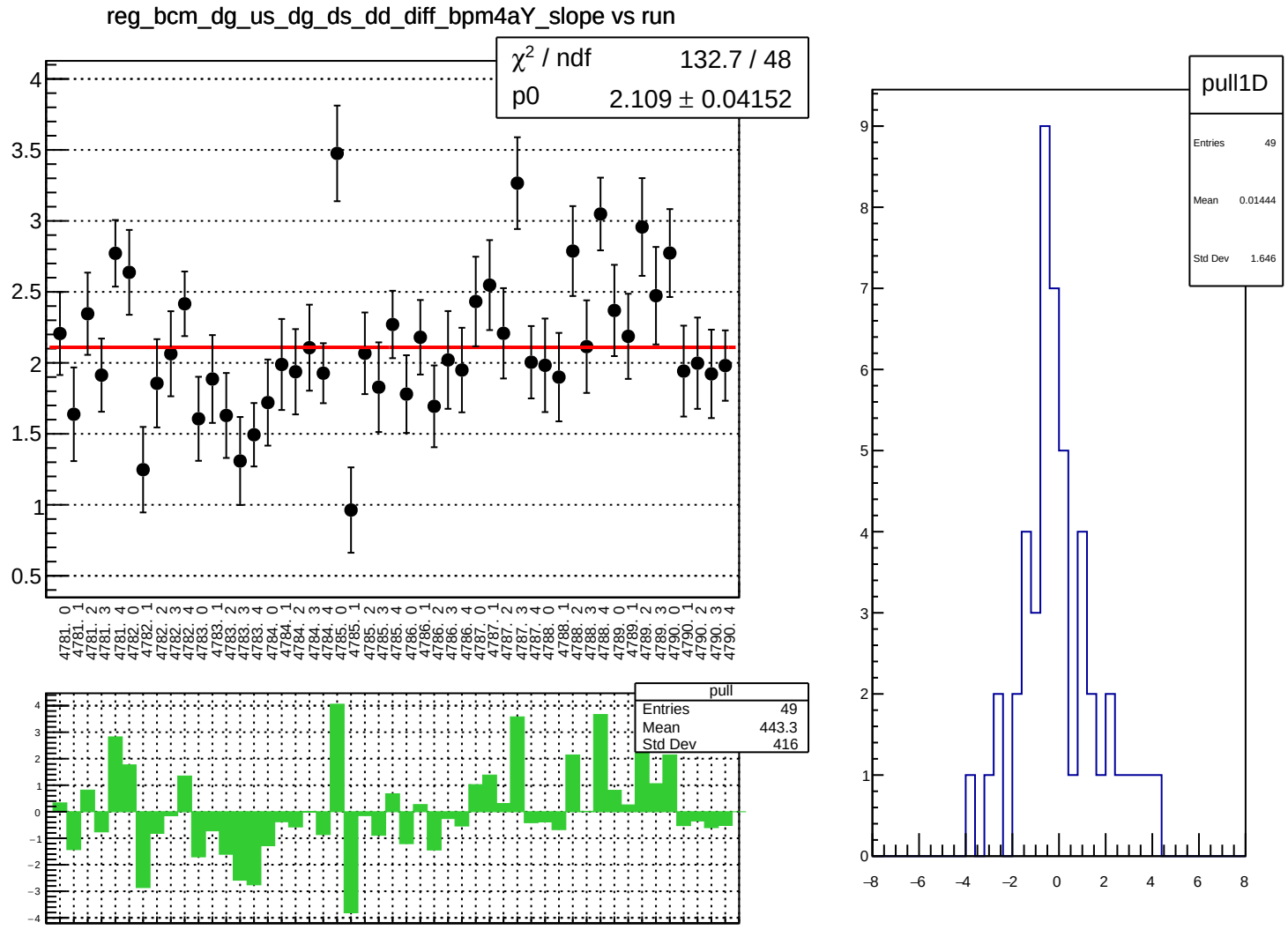

pull1D
Entries 49
Mean 0.03596
Std Dev 1.097

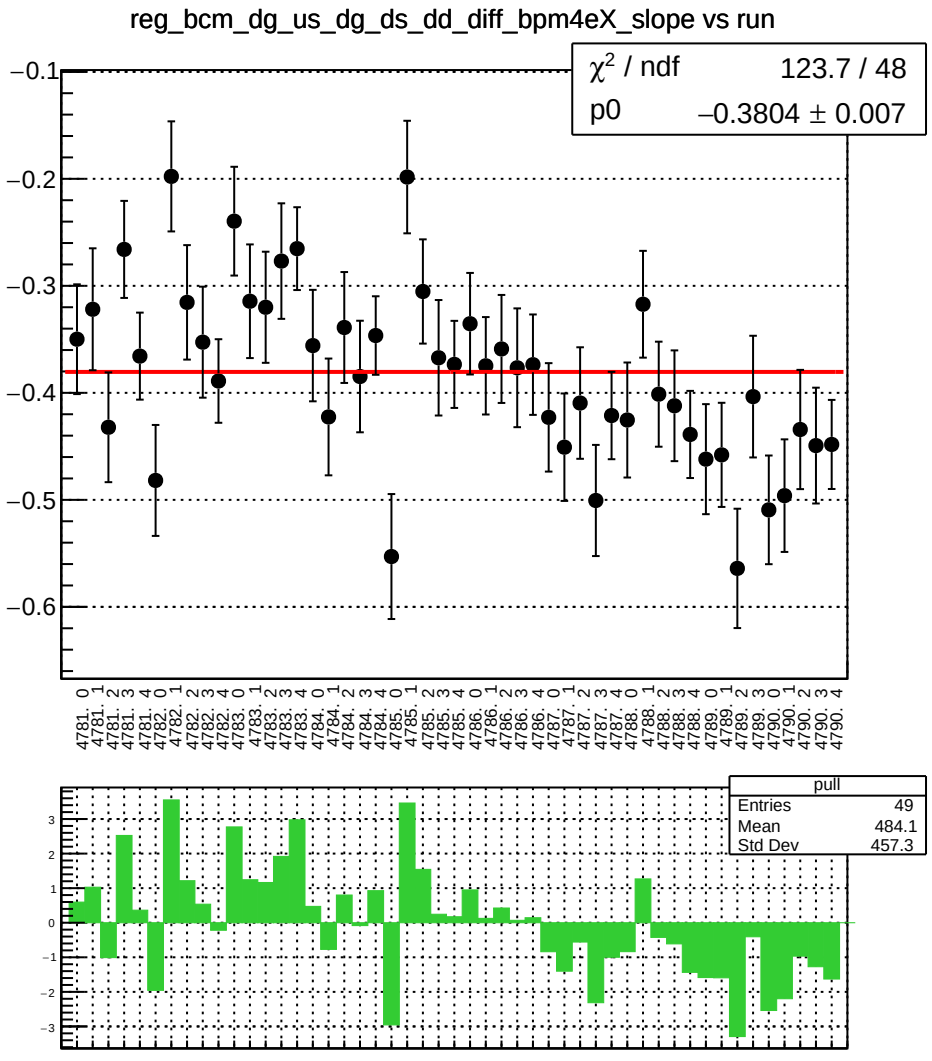

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 51.45 / 48
p0 −0.01646 ± 0.006685
pull
Entries 49
Mean 46.66
Std Dev 62.8

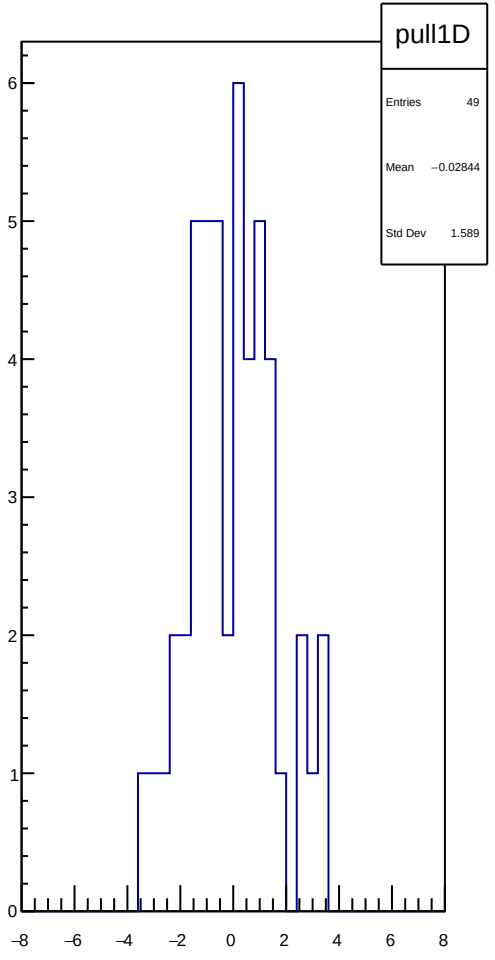

pull1D
Entries 49
Mean 0.006308
Std Dev 1.025

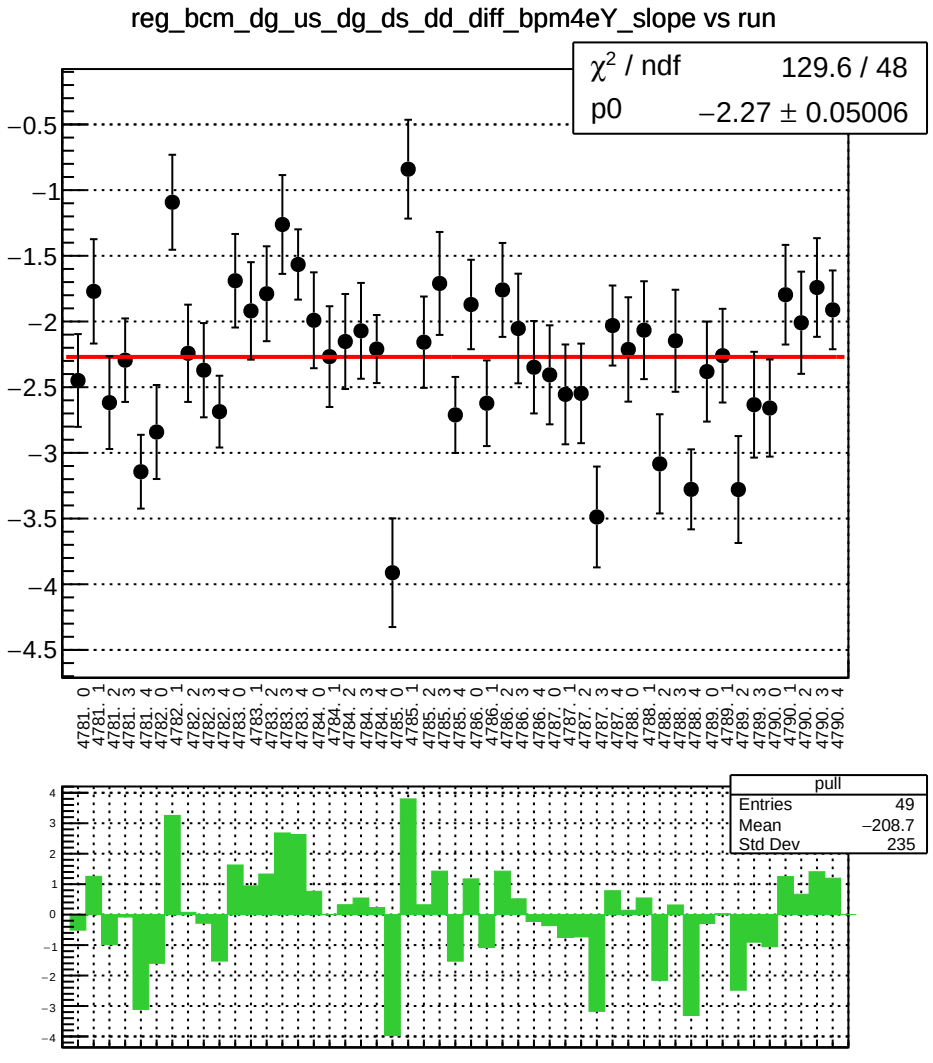

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 58.73 / 48
p0 1.028 ± 0.03633
pull
Entries 49
Mean 359.1
Std Dev 333.1

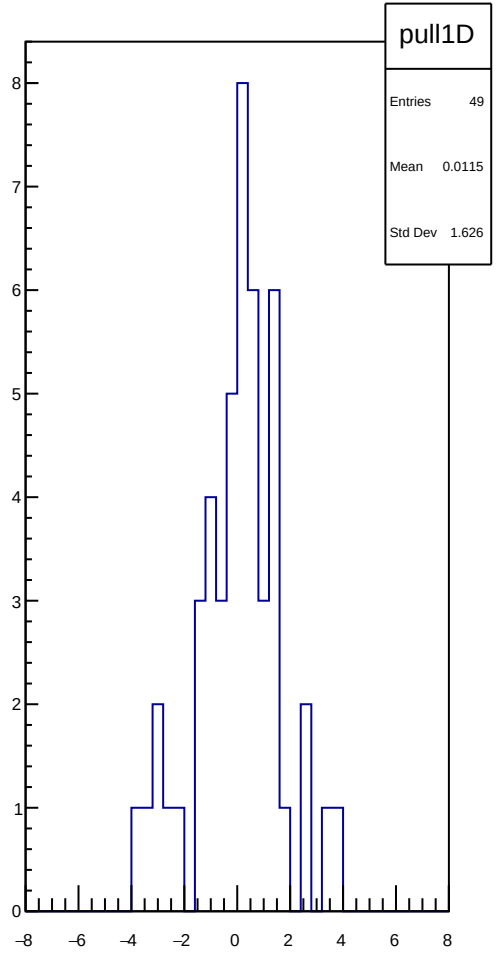

pull1D
Entries 49
Mean 0.02829
Std Dev 1.094

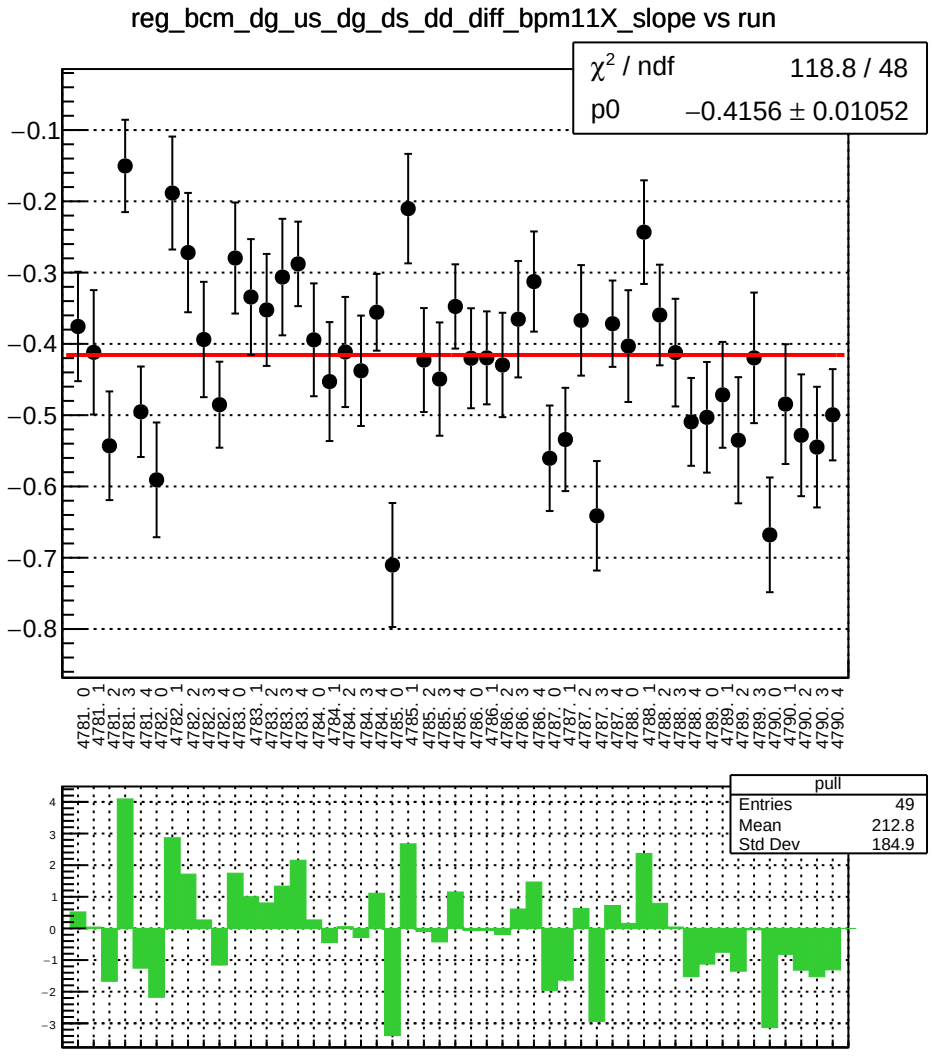

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 132.7 / 48
p0 2.109 ± 0.04152
pull
Entries 49
Mean 443.3
Std Dev 416
pull1D
Entries 49
Mean 0.01444
Std Dev 1.646

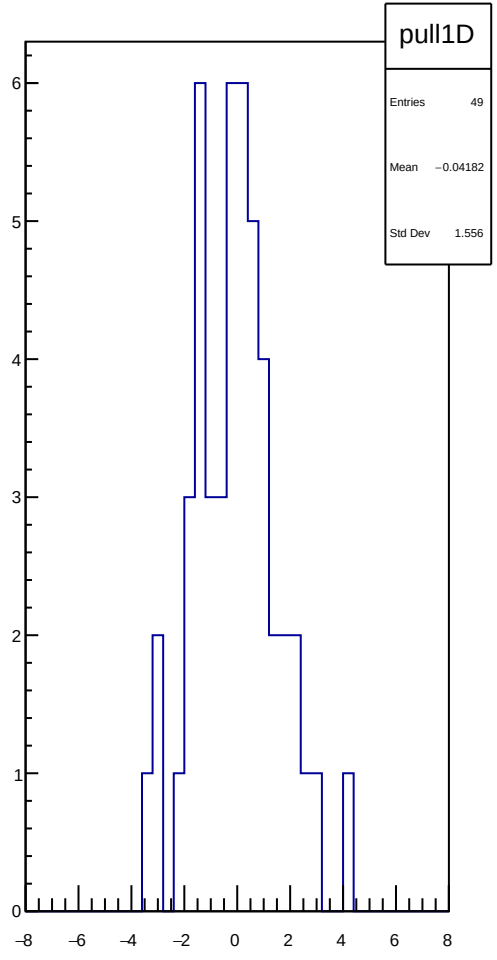

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 123.7 / 48
p0 −0.3804 ± 0.007
pull
Entries 49
Mean 484.1
Std Dev 457.3

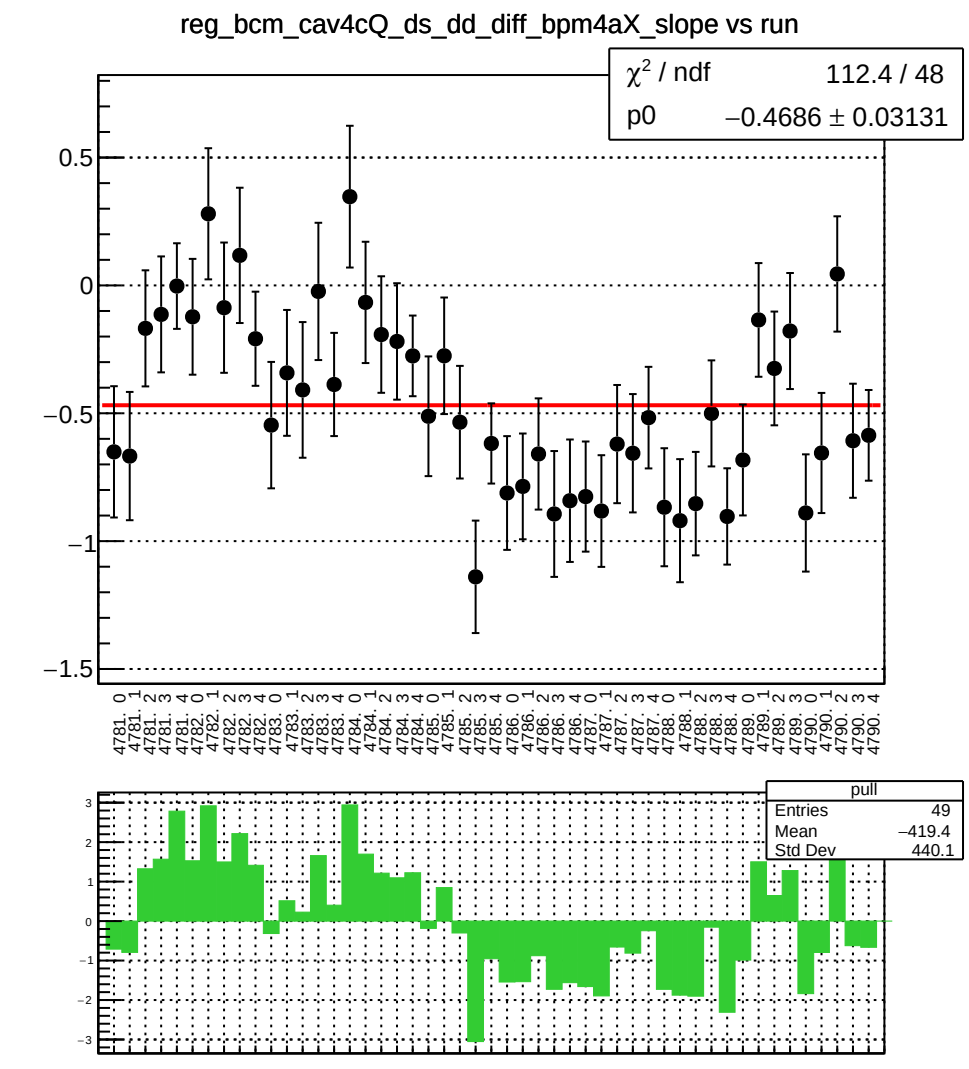

pull1D
Entries 49
Mean −0.02844
Std Dev 1.589

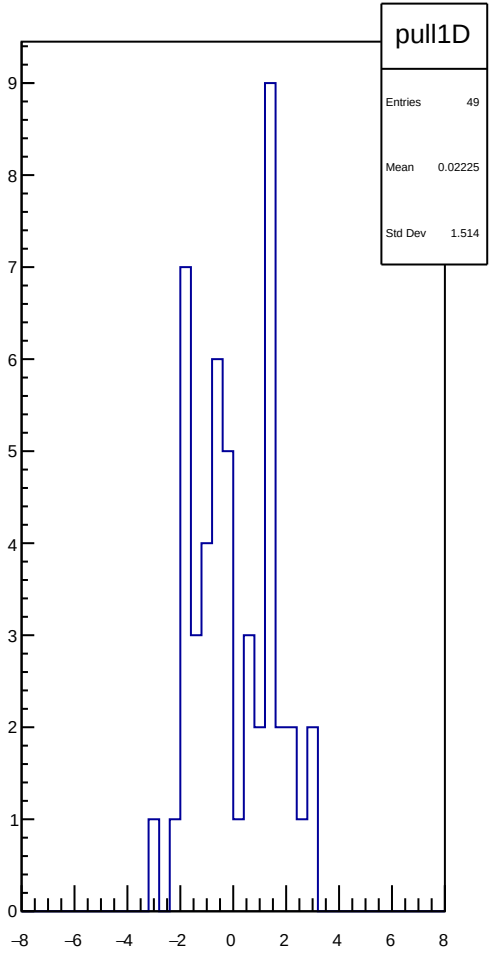

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 129.6 / 48
p0 −2.27 ± 0.05006
pull
Entries 49
Mean −208.7
Std Dev 235

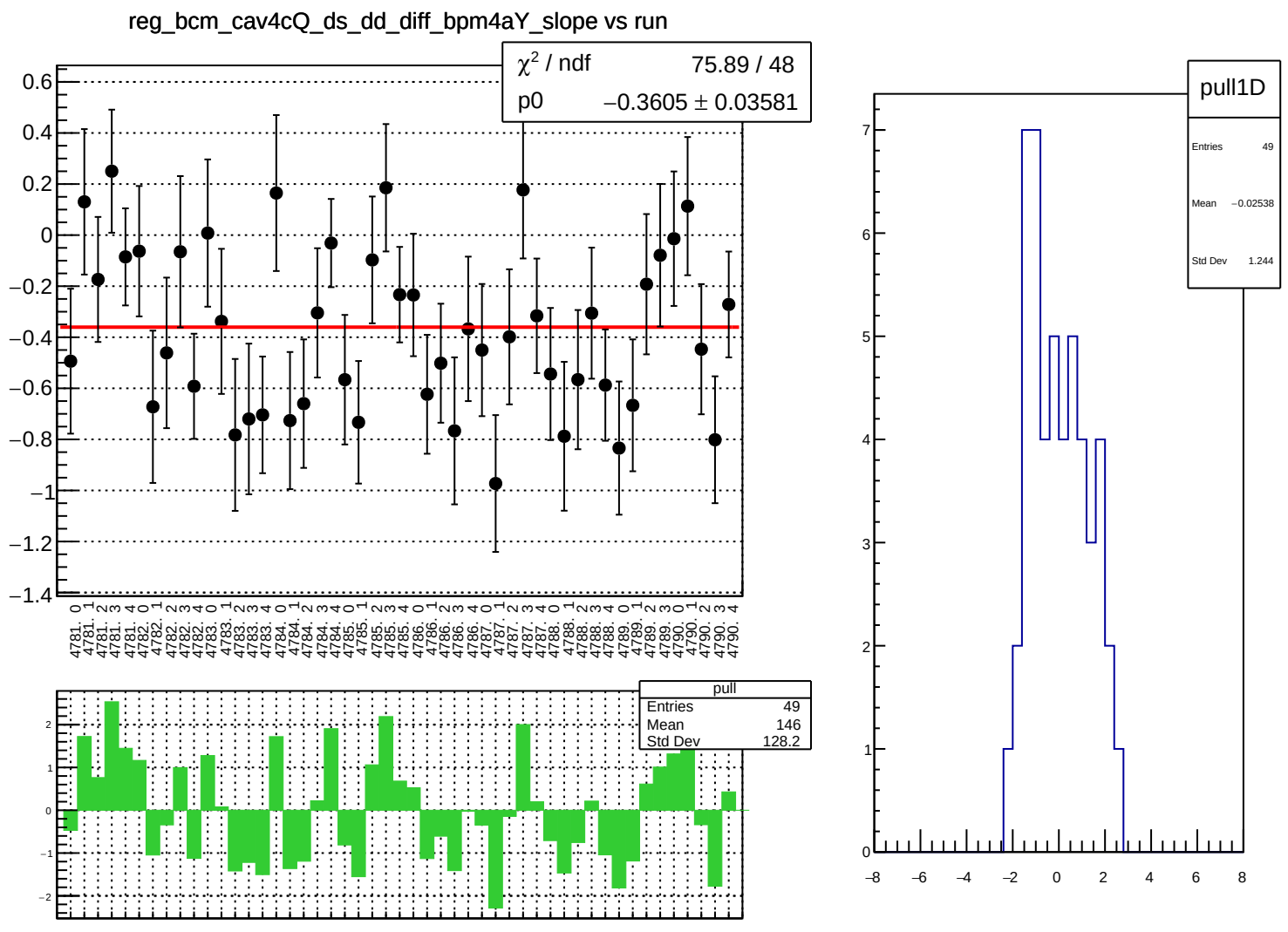

pull1D
Entries 49
Mean 0.0115
Std Dev 1.626

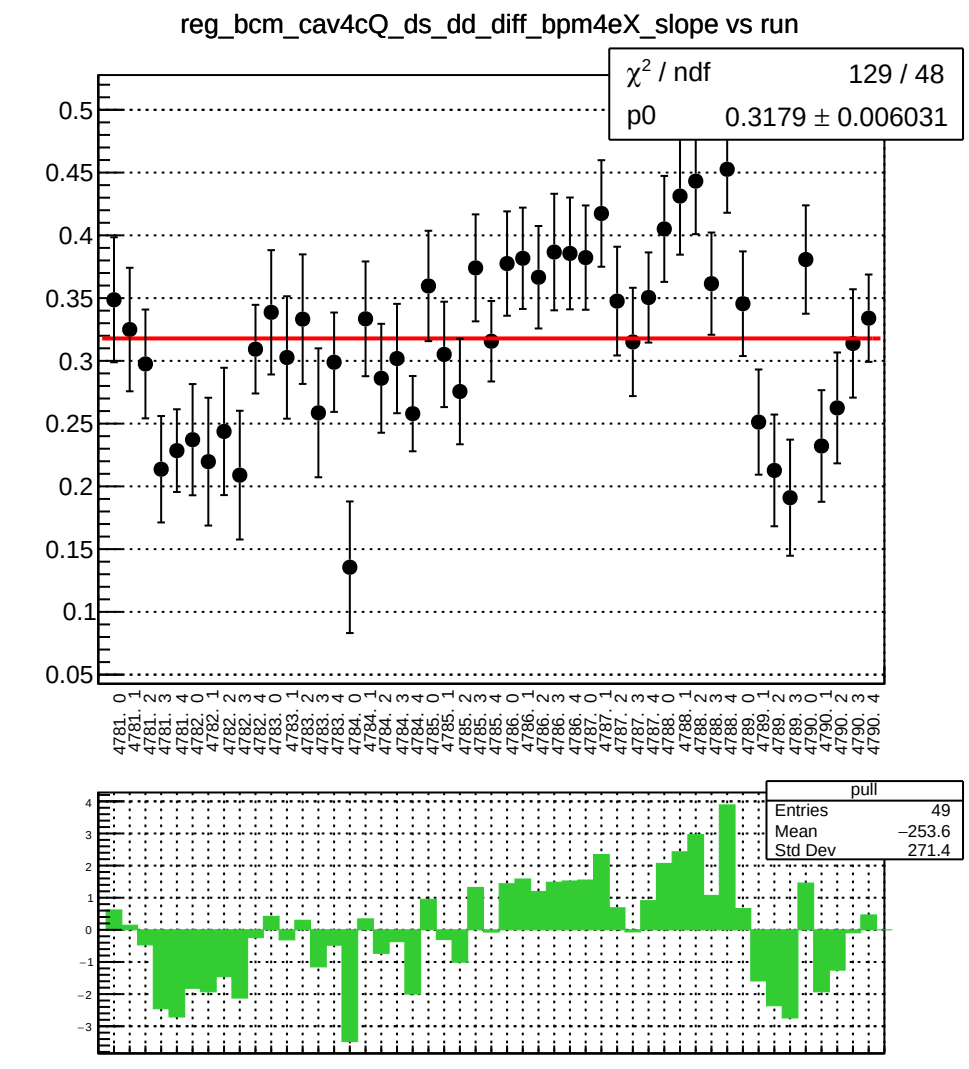

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 118.8 / 48
p0 −0.4156 ± 0.01052
pull
Entries 49
Mean 212.8
Std Dev 184.9

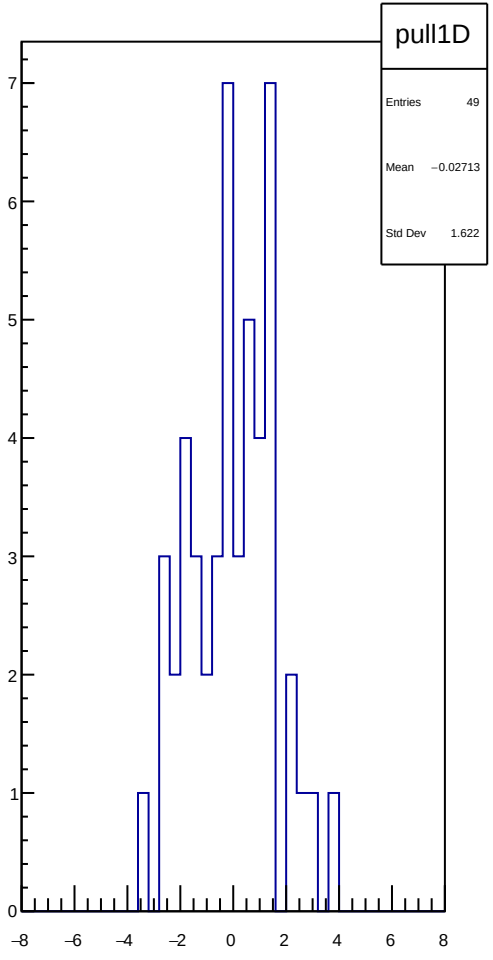

pull1D
Entries 49
Mean −0.04182
Std Dev 1.556

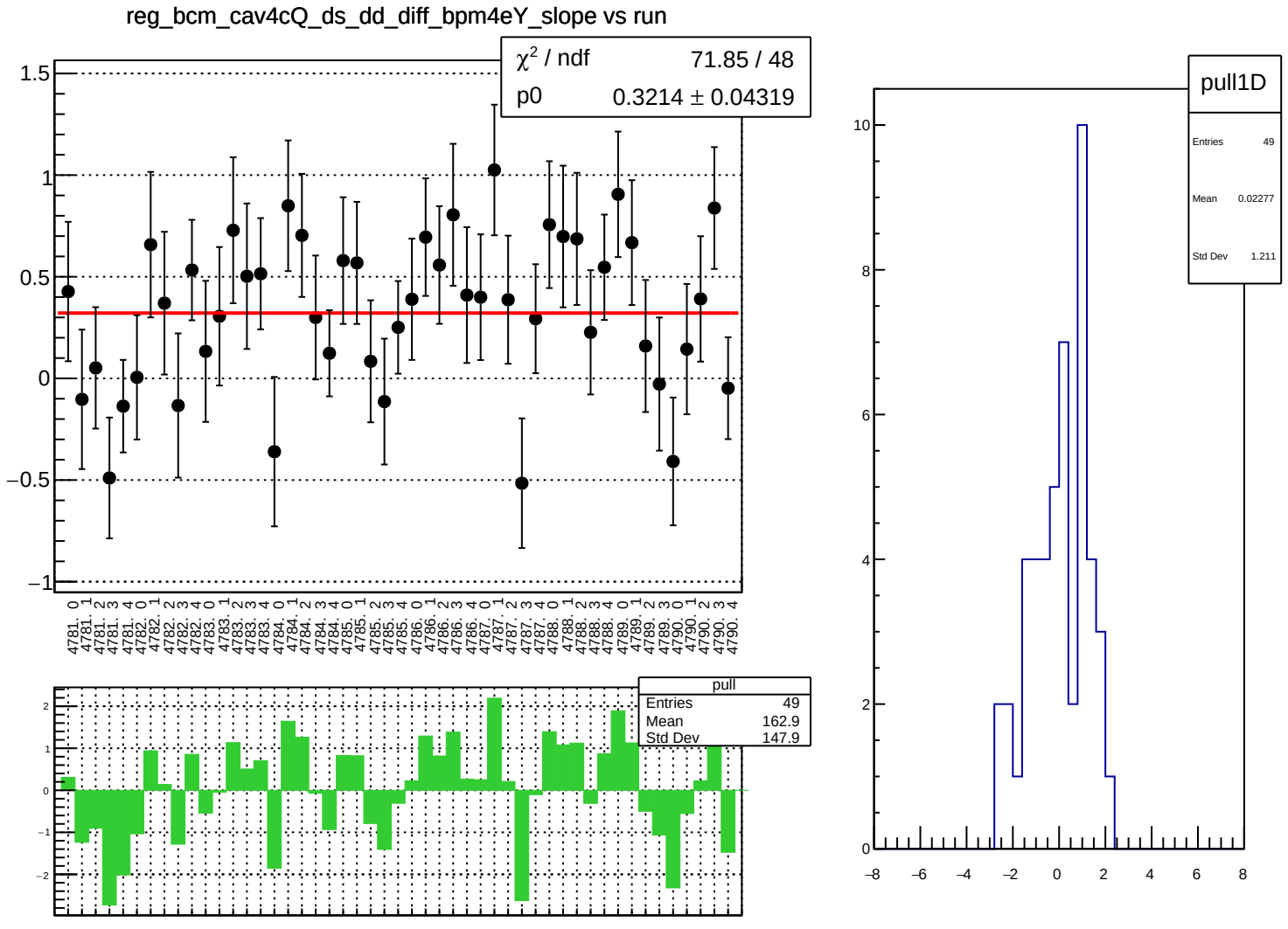

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 112.4 / 48
p0 −0.4686 ± 0.03131
0.5
0
−0.5
−1
−1.5
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −419.4
Std Dev 440.1
3
2
1
0
−1
−2
−3

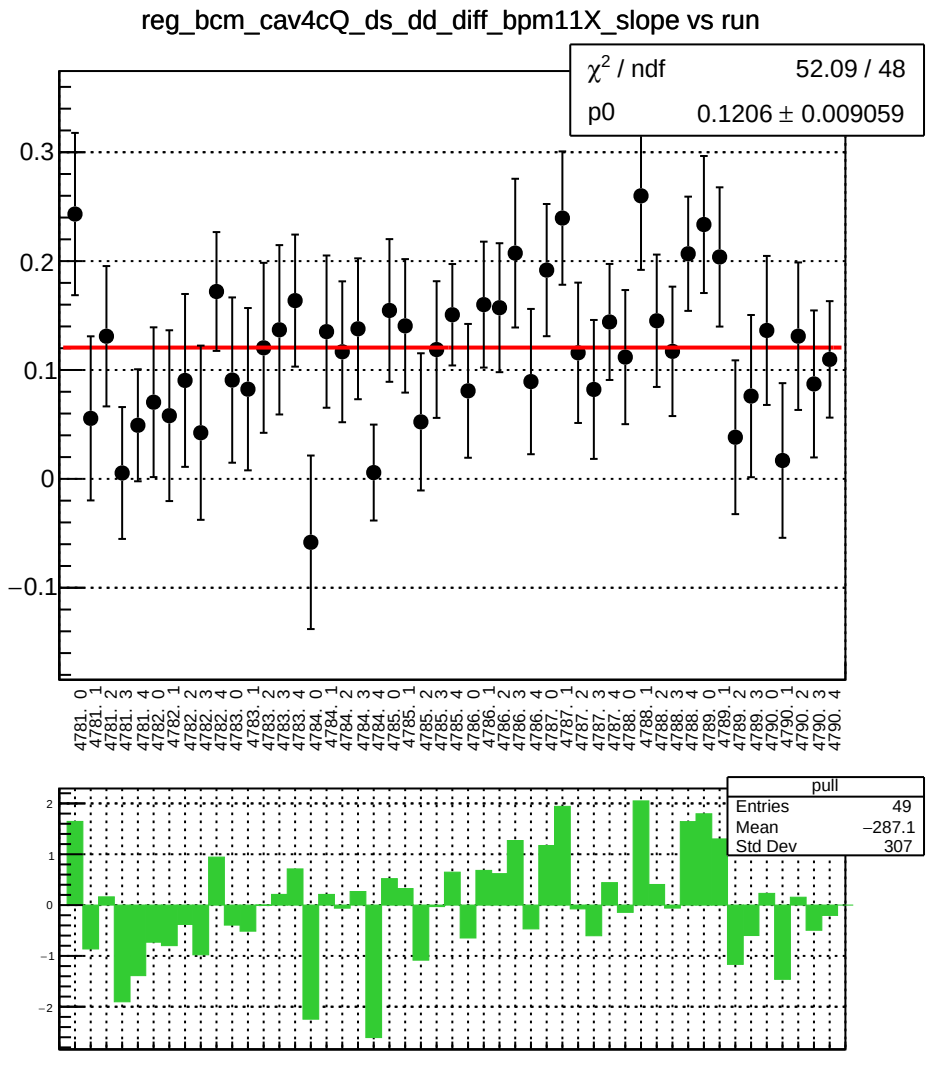

pull1D
Entries 49
Mean 0.02225
Std Dev 1.514
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

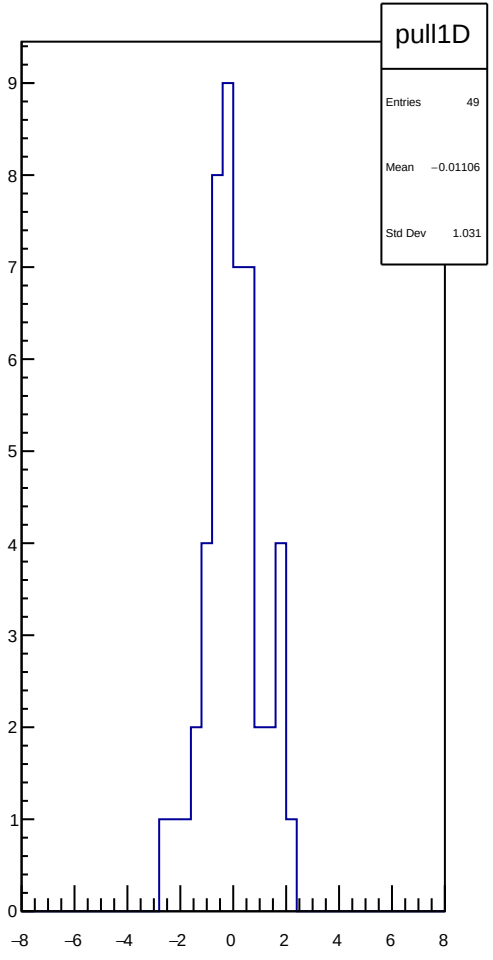

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 75.89 / 48
p0 −0.3605 ± 0.03581
pull
Entries 49
Mean 146
Std Dev 128.2
pull1D
Entries 49
Mean −0.02538
Std Dev 1.244

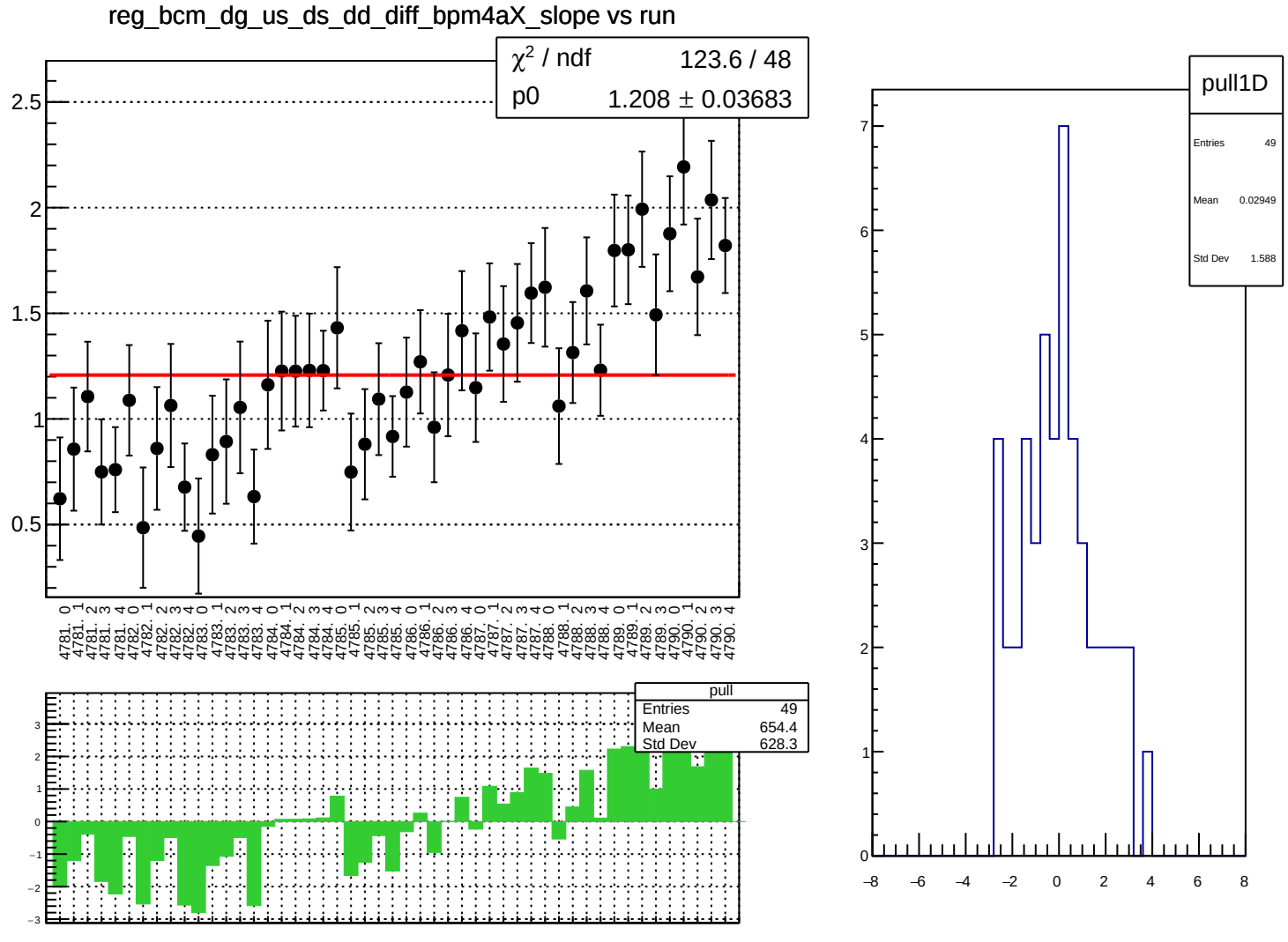

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 129 / 48
p0 0.3179 ± 0.006031
pull
Entries 49
Mean −253.6
Std Dev 271.4

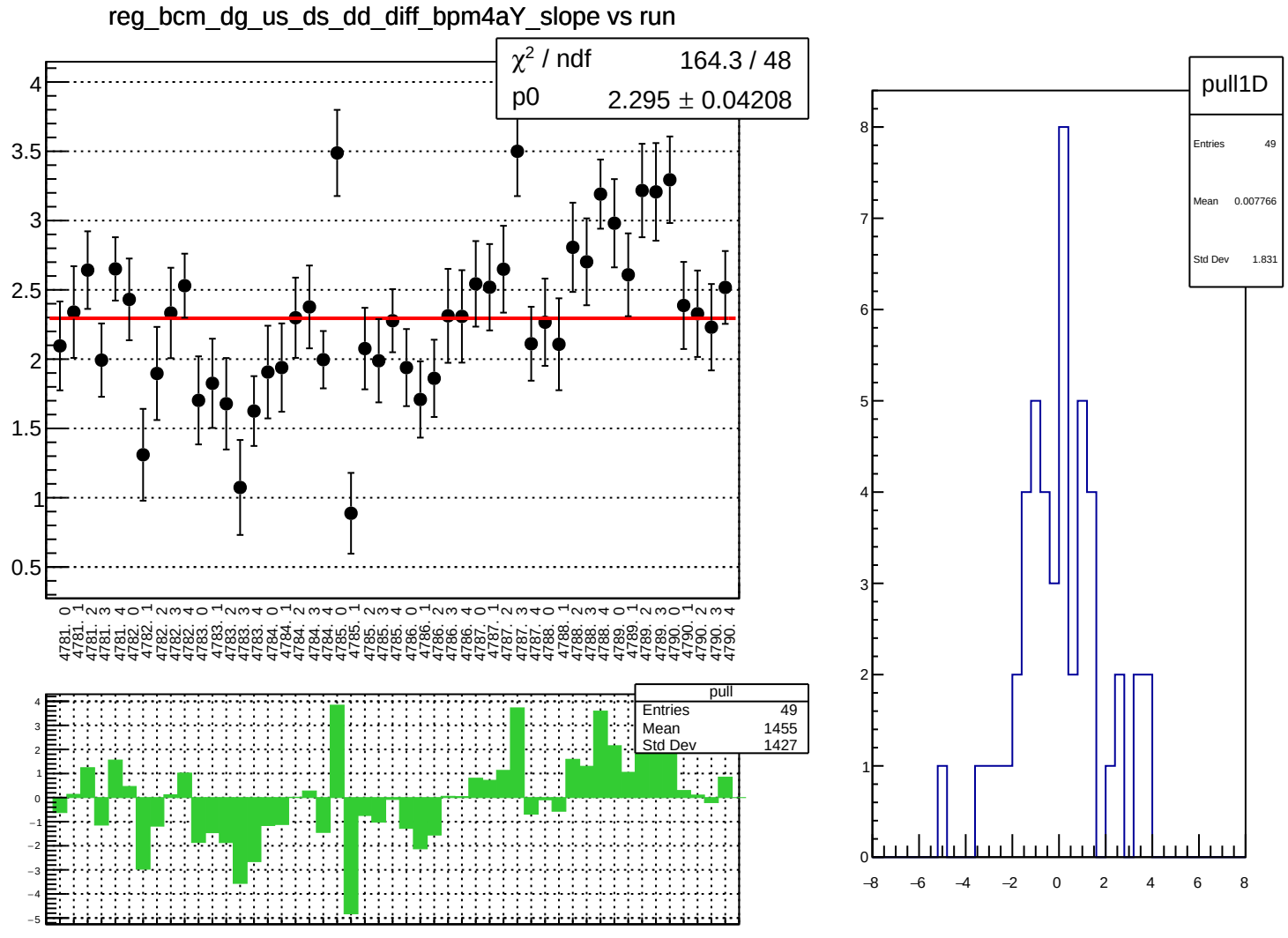

pull1D
Entries 49
Mean −0.02713
Std Dev 1.622

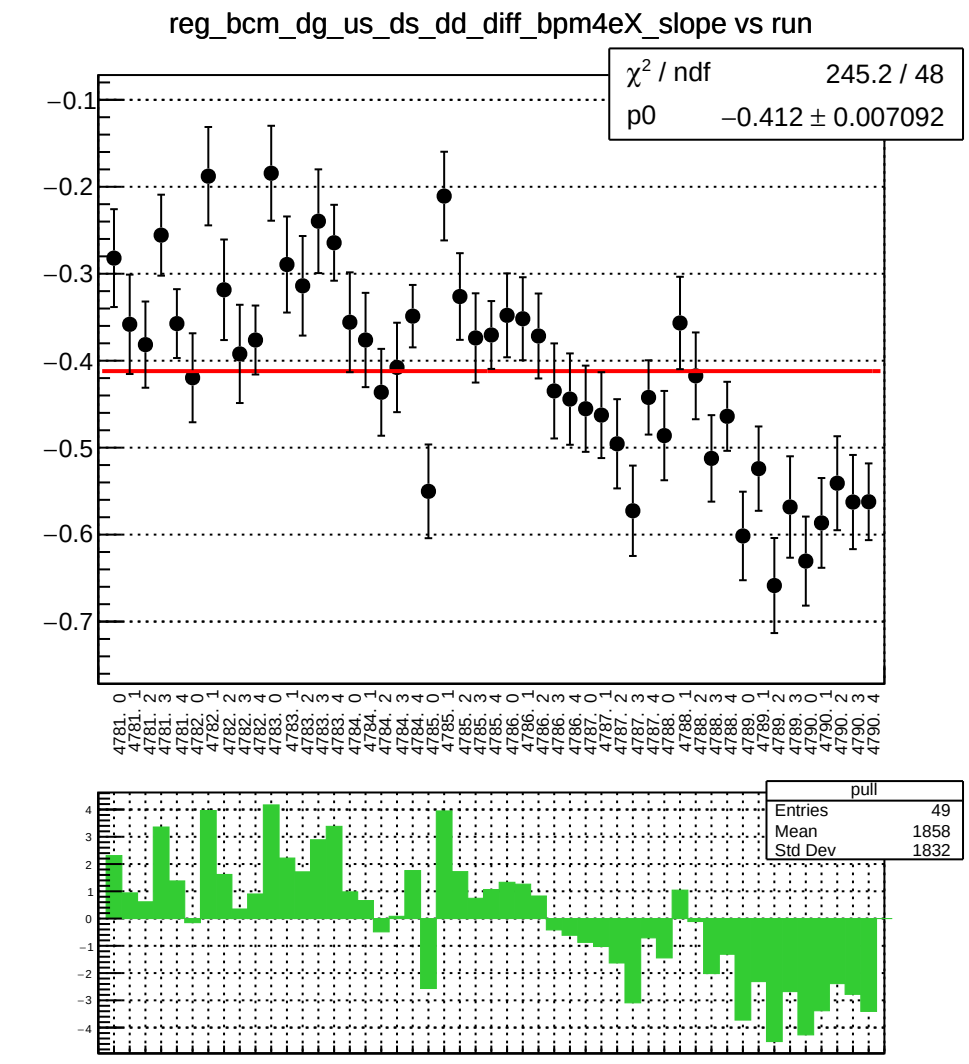

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 71.85 / 48
p0 0.3214 ± 0.04319
pull
Entries 49
Mean 162.9
Std Dev 147.9
pull1D
Entries 49
Mean 0.02277
Std Dev 1.211

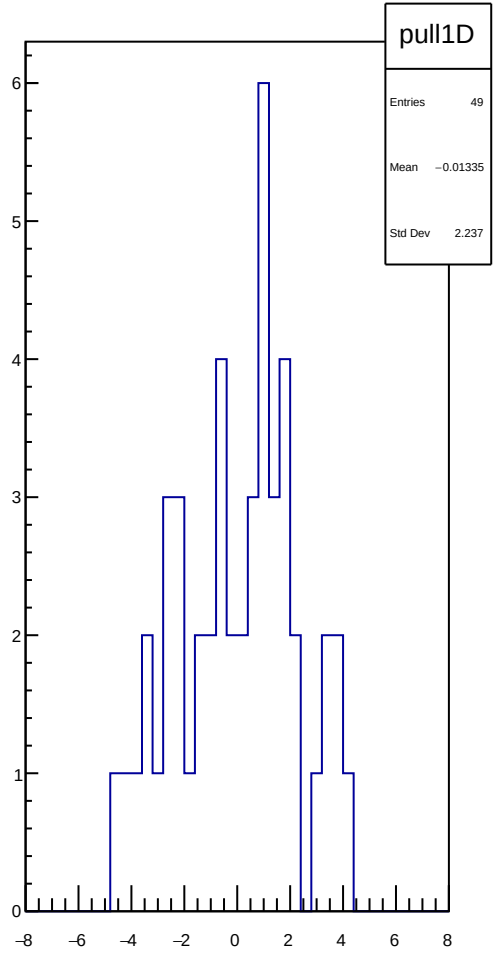

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 52.09 / 48
p0 0.1206 ± 0.009059
0.3
0.2
0.1
0
−0.1
4781. 0
4781. 1
4781. 2
4781. 3
4781. 4
4782. 0
4782. 1
4782. 2
4782. 3
4782. 4
4783. 0
4783. 1
4783. 2
4783. 3
4783. 4
4784. 0
4784. 1
4784. 2
4784. 3
4784. 4
4785. 0
4785. 1
4785. 2
4785. 3
4785. 4
4786. 0
4786. 1
4786. 2
4786. 3
4786. 4
4787. 0
4787. 1
4787. 2
4787. 3
4787. 4
4788. 0
4788. 1
4788. 2
4788. 3
4788. 4
4789. 0
4789. 1
4789. 2
4789. 3
4789. 4
4790. 0
4790. 1
4790. 2
4790. 3
4790. 4
pull
Entries 49
Mean −287.1
Std Dev 307
2
1
0
−1
−2

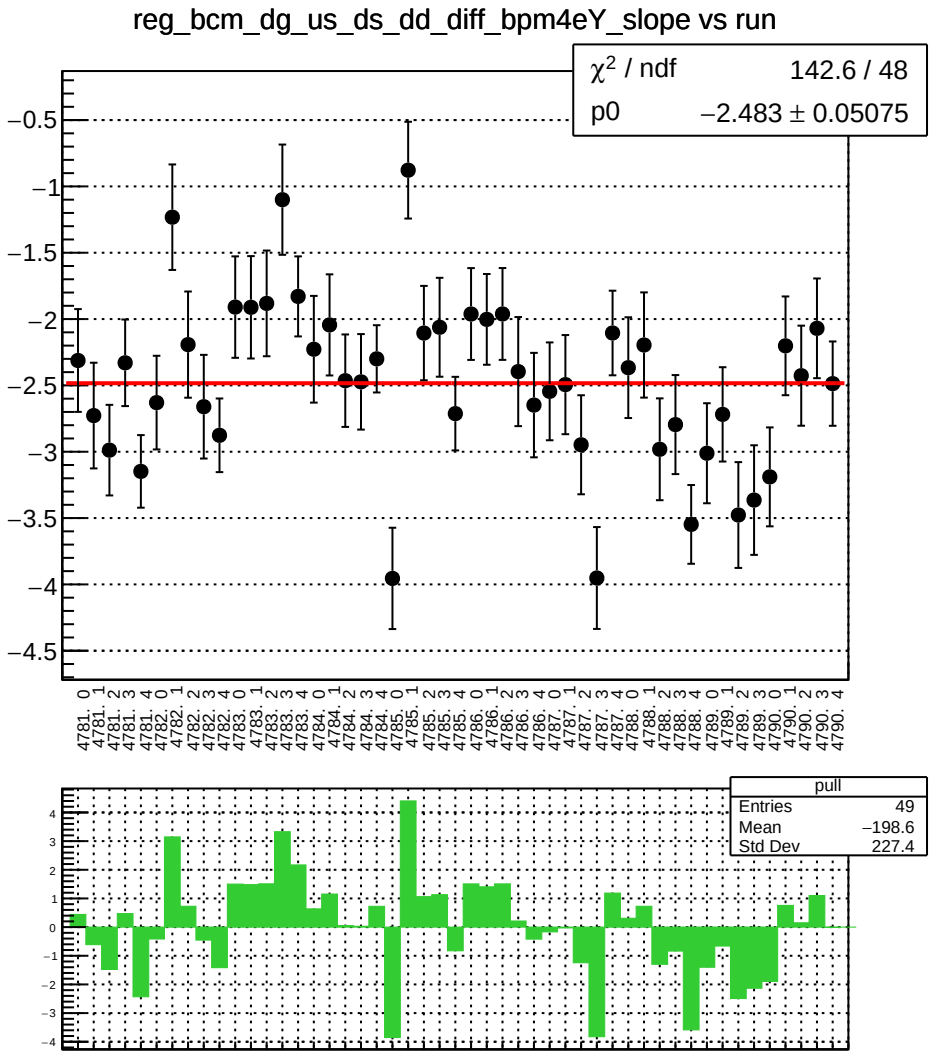

pull1D
Entries 49
Mean −0.01106
Std Dev 1.031
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

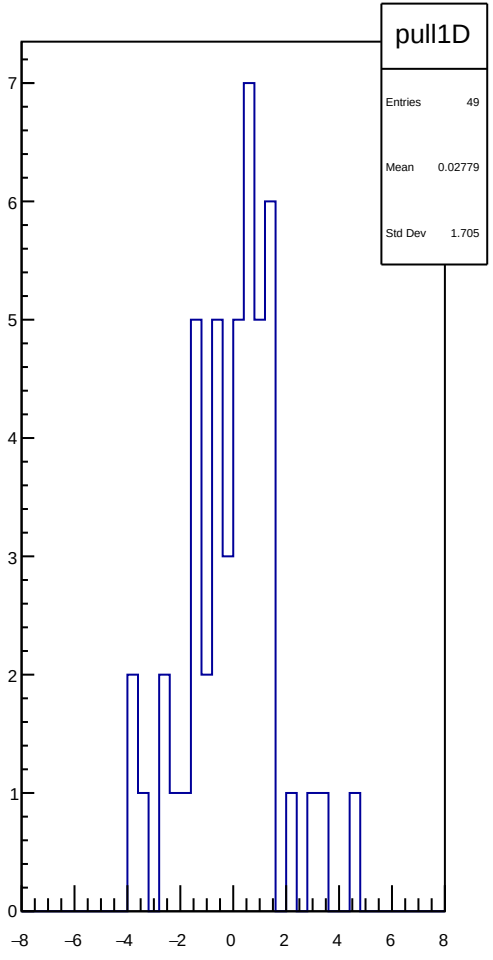

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 123.6 / 48
p0 1.208 ± 0.03683
pull
Entries 49
Mean 654.4
Std Dev 628.3
pull1D
Entries 49
Mean 0.02949
Std Dev 1.588

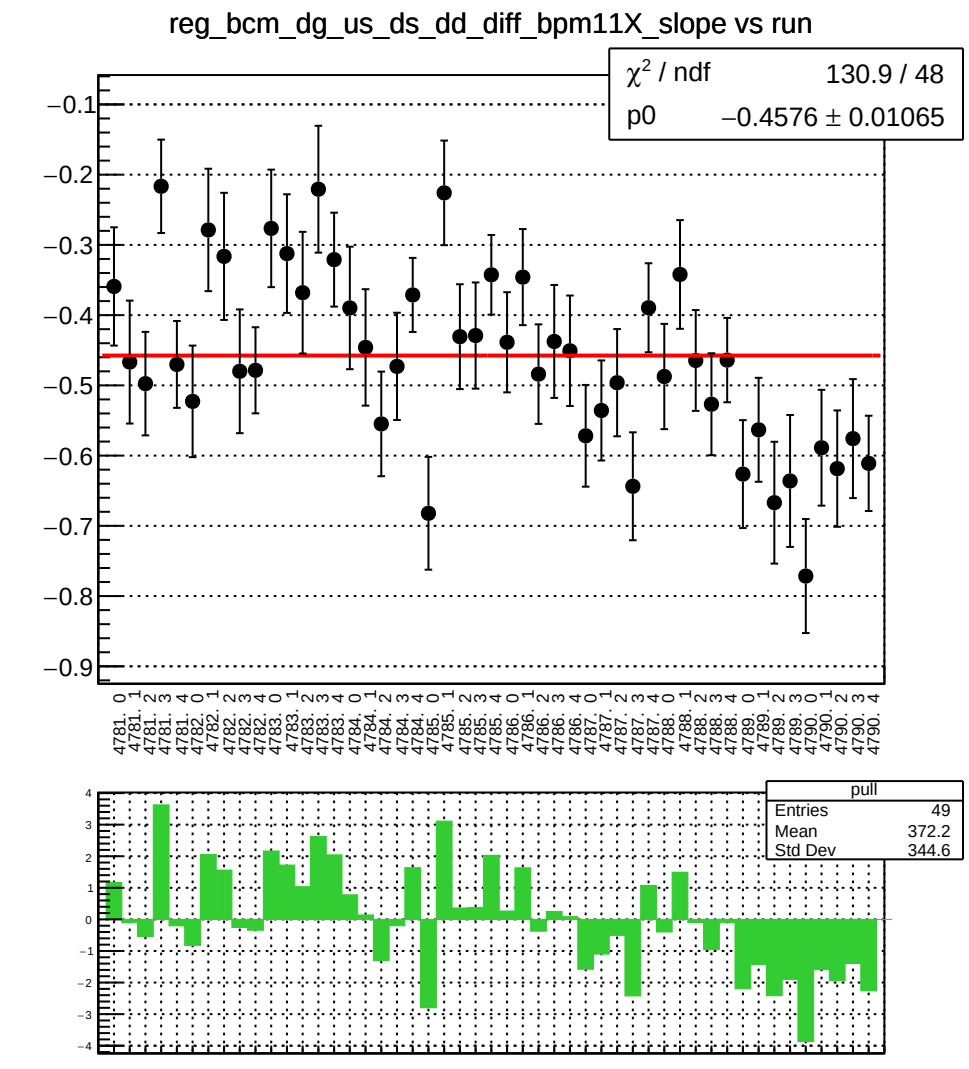

reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 164.3 / 48
p0 2.295 ± 0.04208
pull
Entries 49
Mean 1455
Std Dev 1427
pull1D
Entries 49
Mean 0.007766
Std Dev 1.831

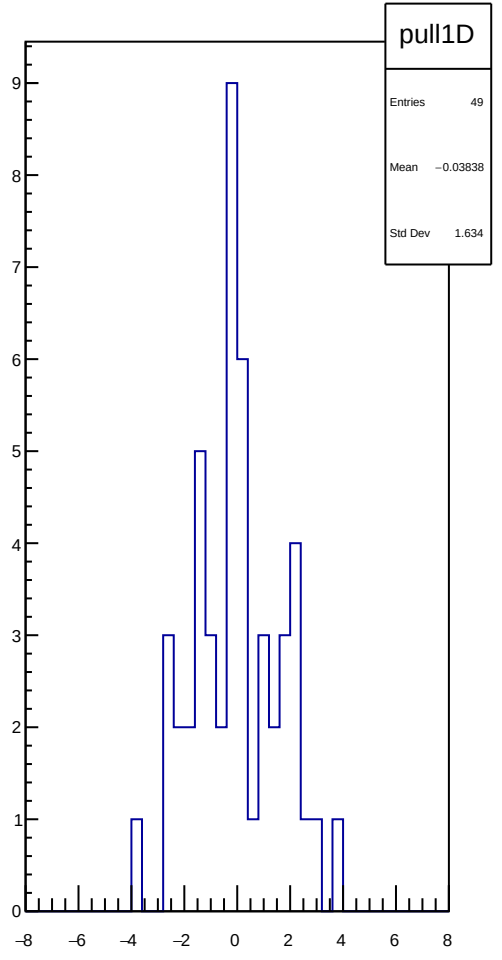

reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 245.2 / 48
p0 −0.412 ± 0.007092
pull
Entries 49
Mean 1858
Std Dev 1832

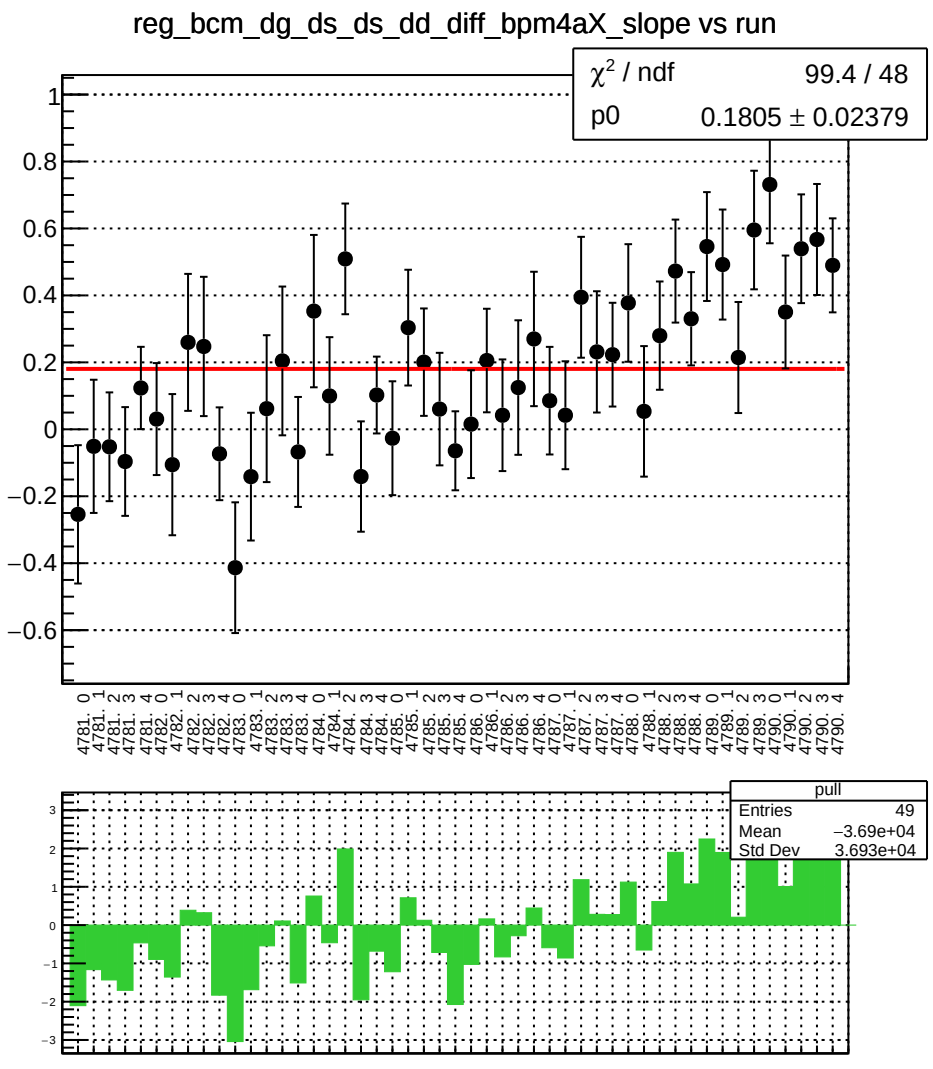

pull1D
Entries 49
Mean −0.01335
Std Dev 2.237

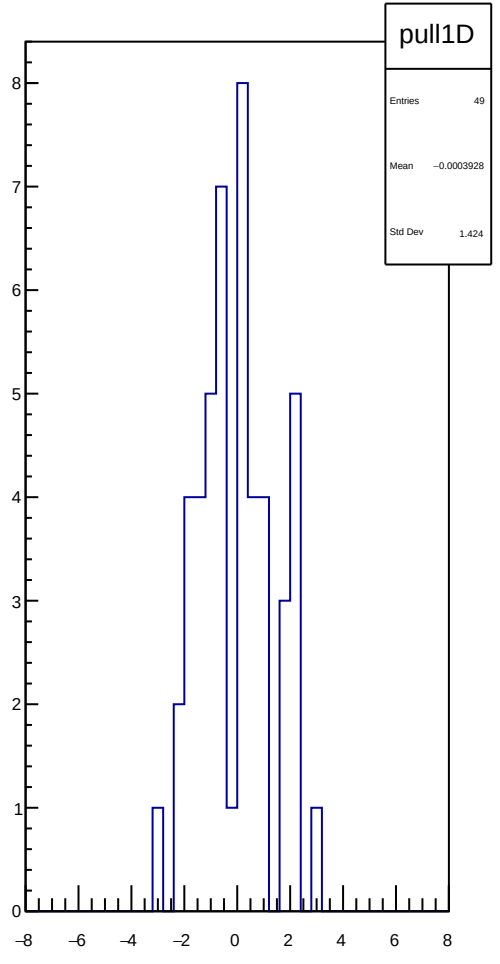

reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 142.6 / 48
p0 −2.483 ± 0.05075
pull
Entries 49
Mean −198.6
Std Dev 227.4

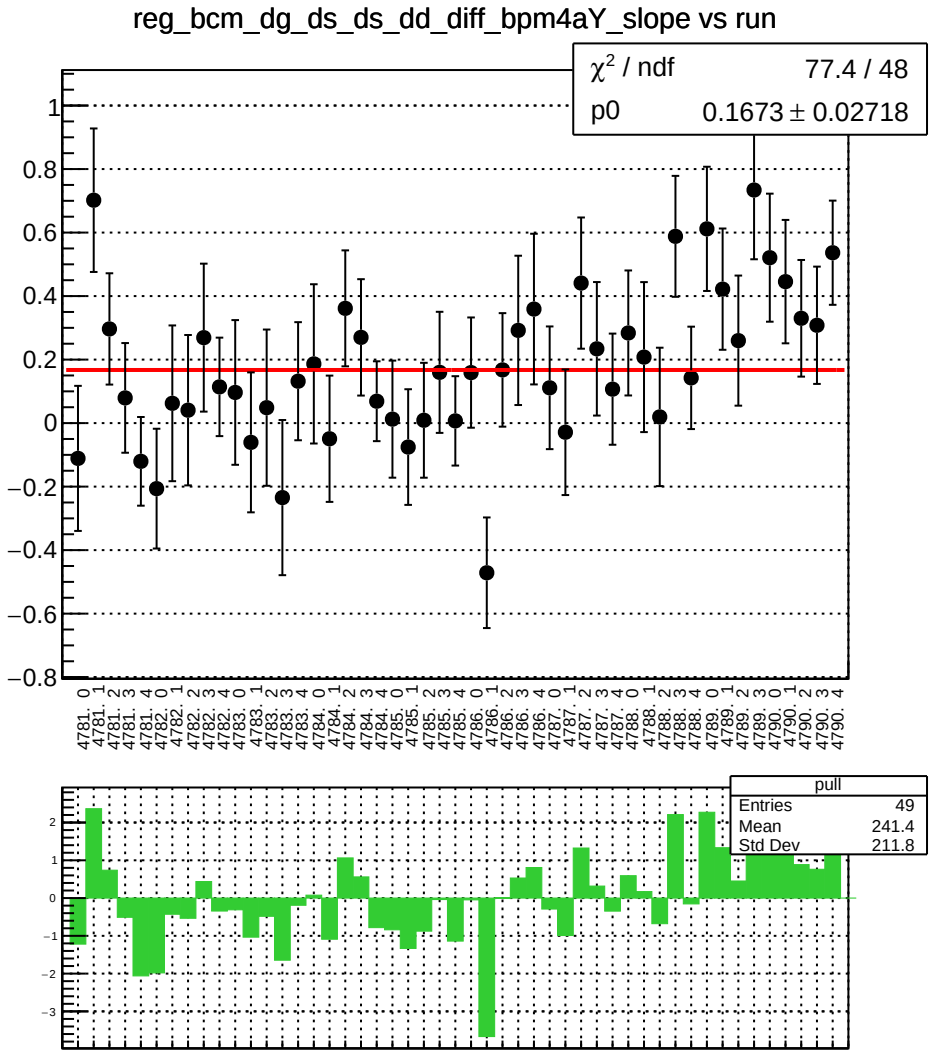

pull1D
Entries 49
Mean 0.02779
Std Dev 1.705

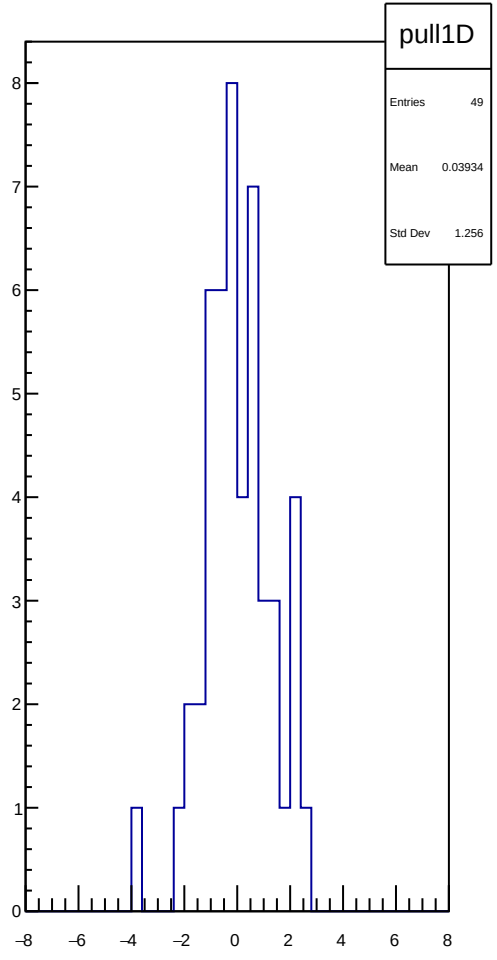

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 130.9 / 48
p0 −0.4576 ± 0.01065
pull
Entries 49
Mean 372.2
Std Dev 344.6

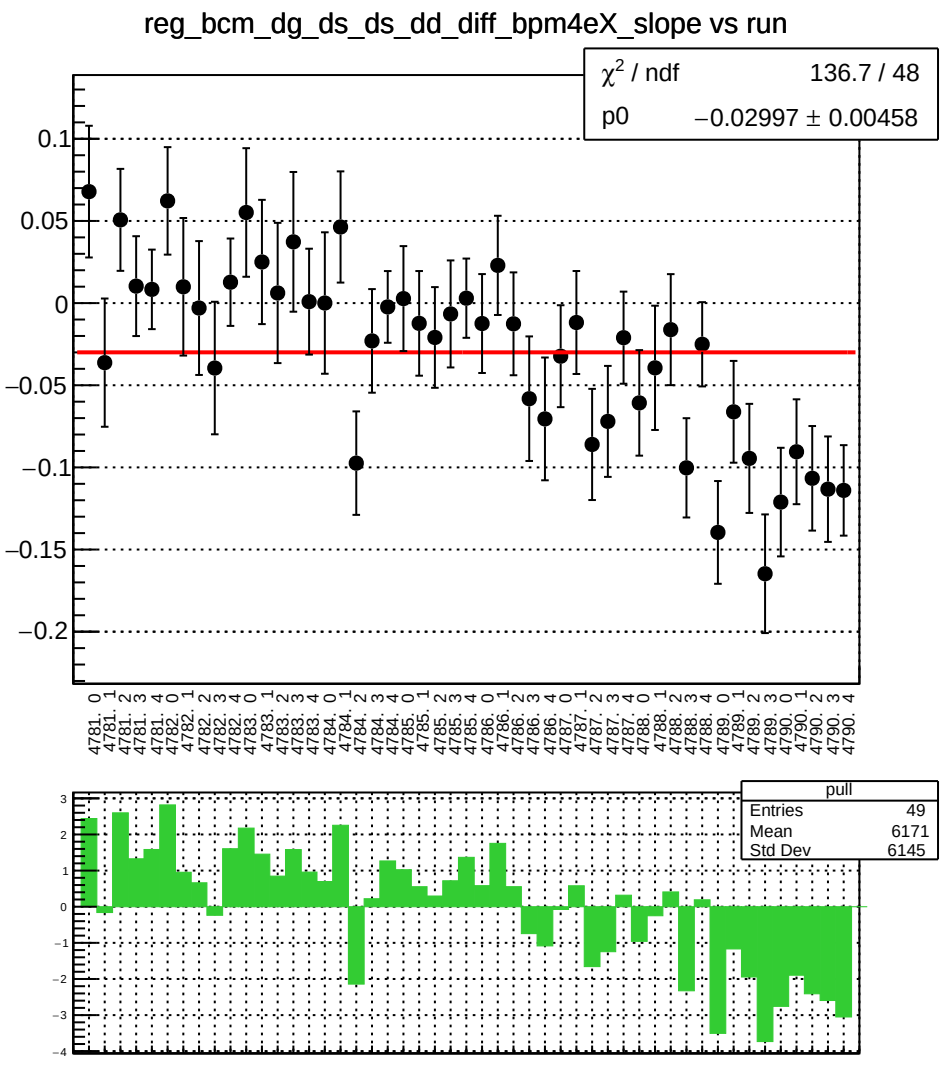

pull1D
Entries 49
Mean −0.03838
Std Dev 1.634

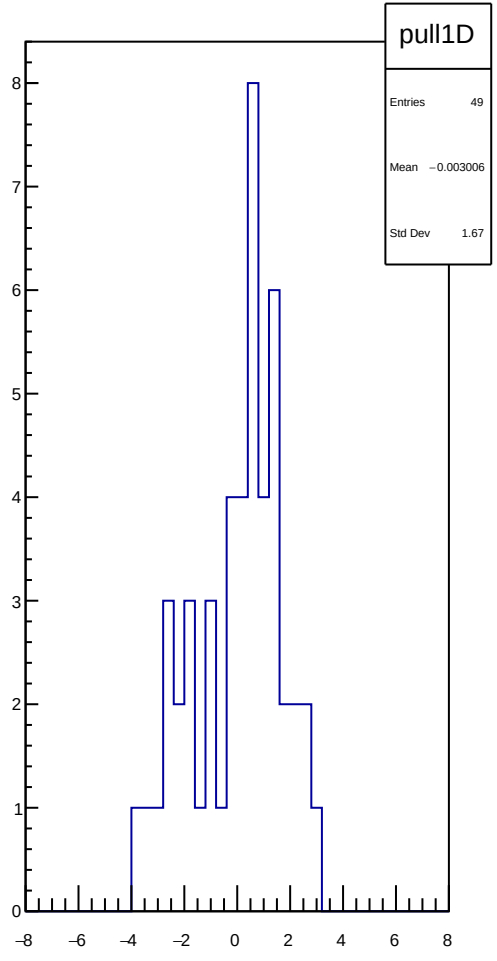

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 99.4 / 48
p0 0.1805 ± 0.02379
pull
Entries 49
Mean −3.69e+04
Std Dev 3.693e+04

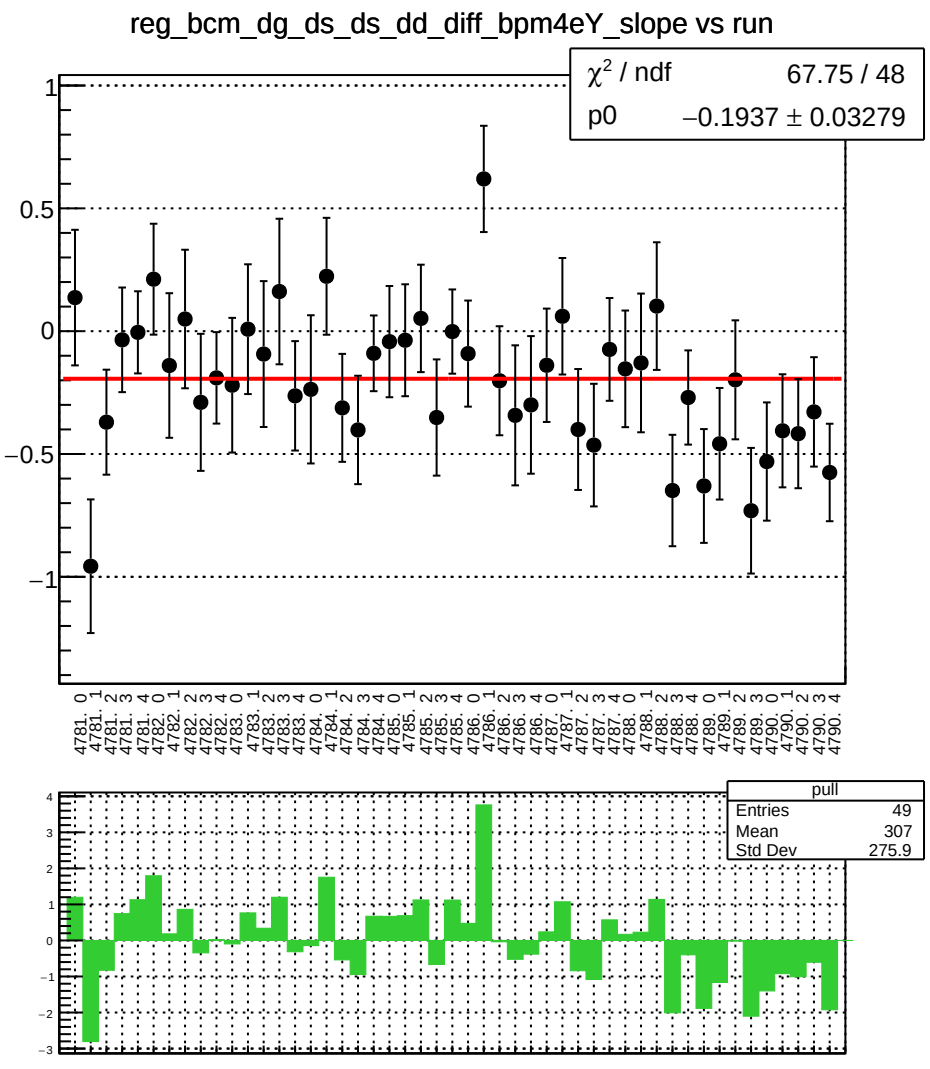

pull1D
Entries 49
Mean −0.0003928
Std Dev 1.424

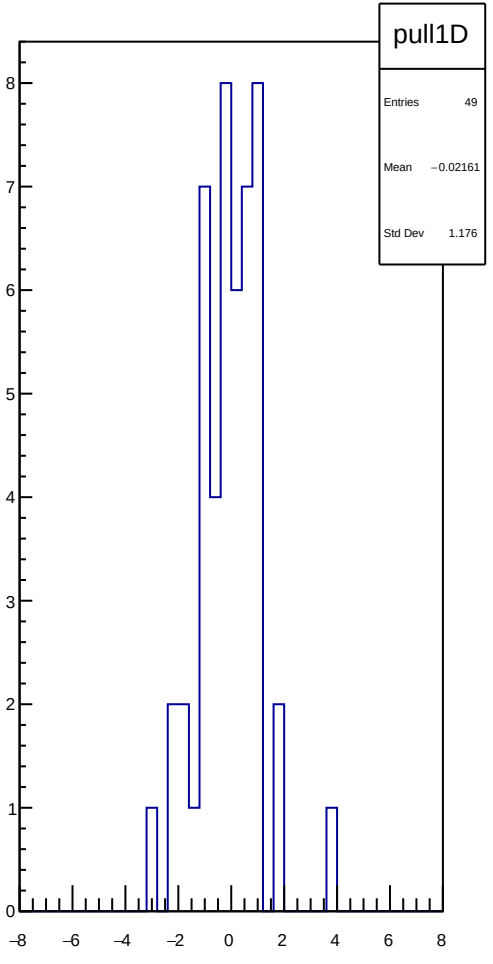

reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 77.4 / 48
p0 0.1673 ± 0.02718
pull
Entries 49
Mean 241.4
Std Dev 211.8

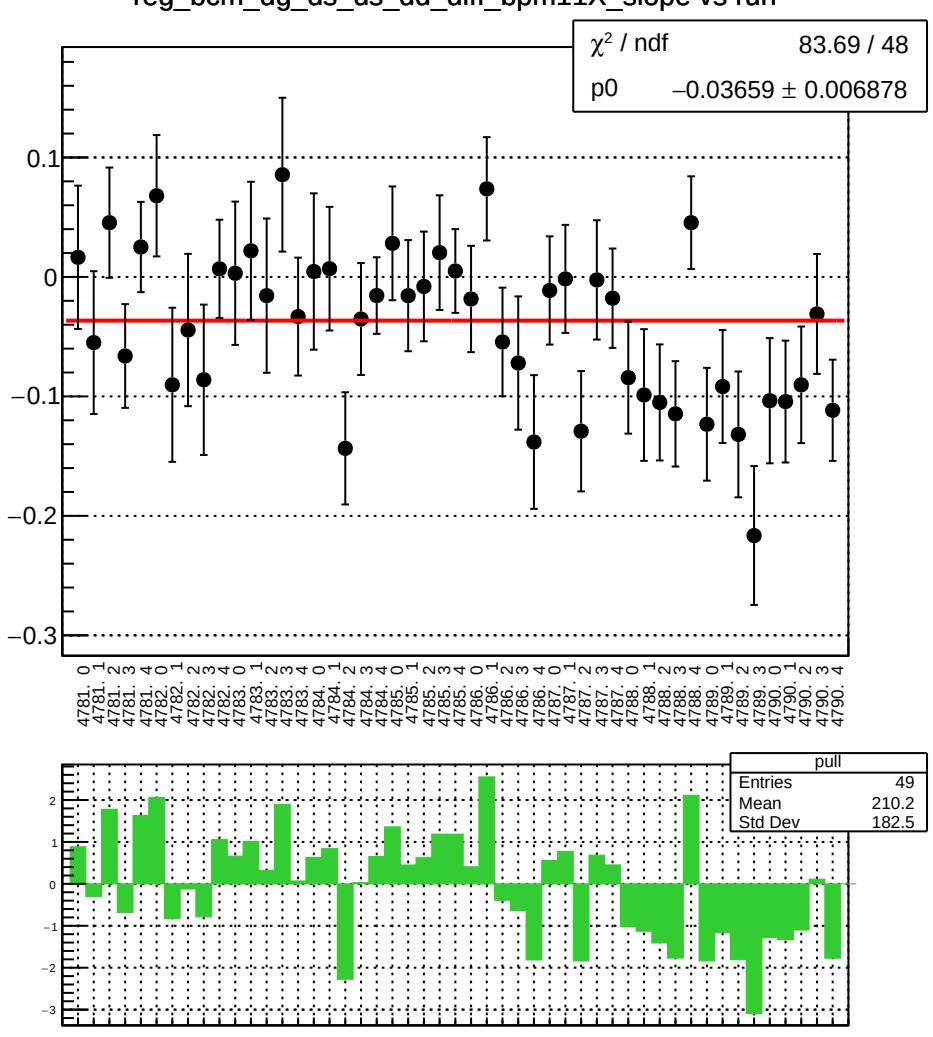

pull1D
Entries 49
Mean 0.03934
Std Dev 1.256

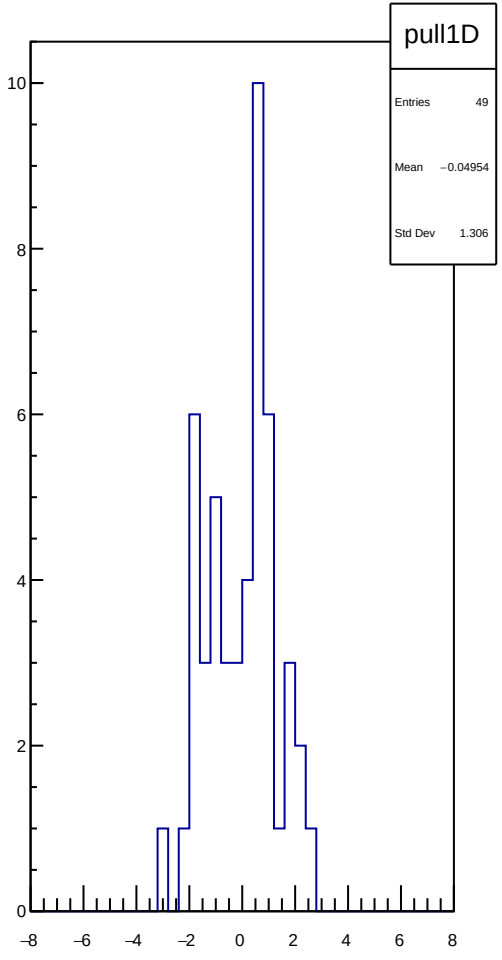

reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 136.7 / 48
p0 −0.02997 ± 0.00458
pull
Entries 49
Mean 6171
Std Dev 6145


pull1D
Entries 49
Mean −0.003006
Std Dev 1.67


reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 67.75 / 48
p0 −0.1937 ± 0.03279
pull
Entries 49
Mean 307
Std Dev 275.9


pull1D
Entries 49
Mean −0.02161
Std Dev 1.176


reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 83.69 / 48
p0 −0.03659 ± 0.006878
pull
Entries 49
Mean 210.2
Std Dev 182.5


pull1D
Entries 49
Mean −0.04954
Std Dev 1.306