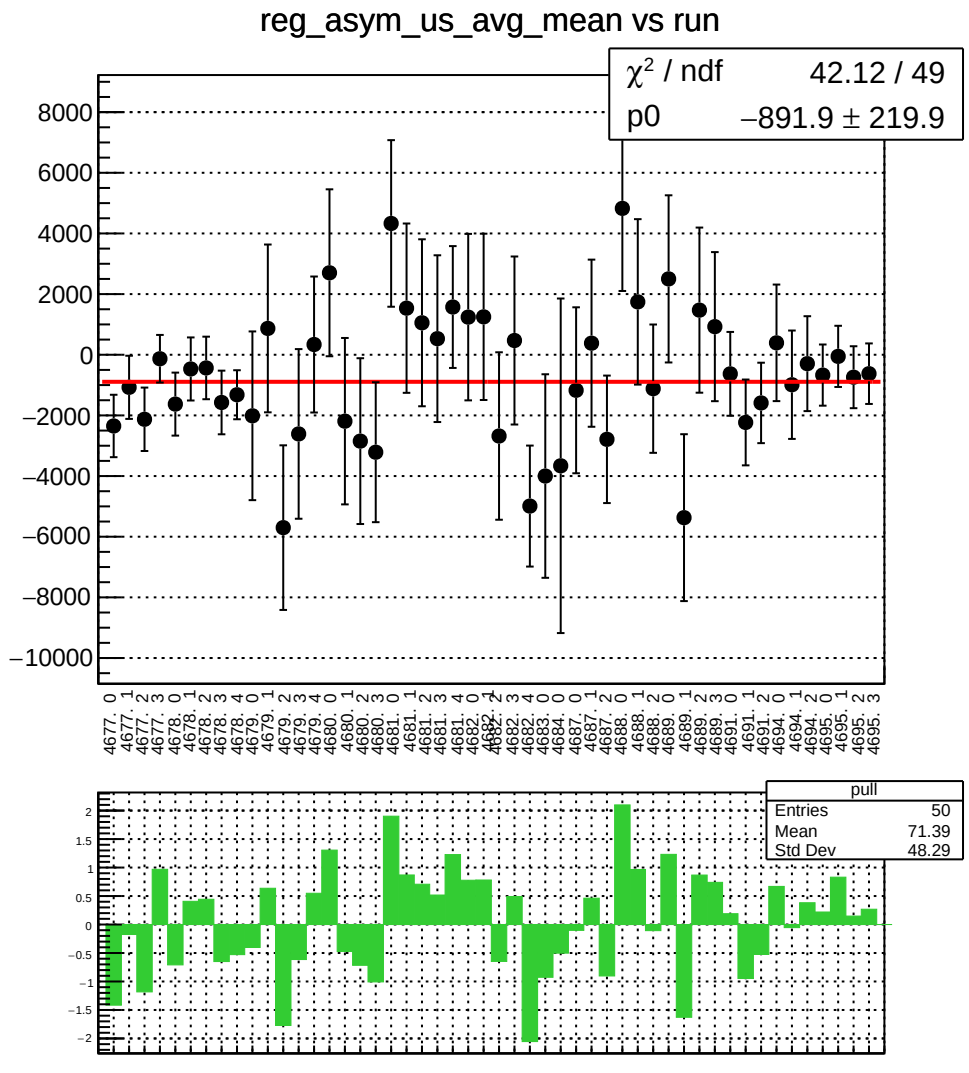
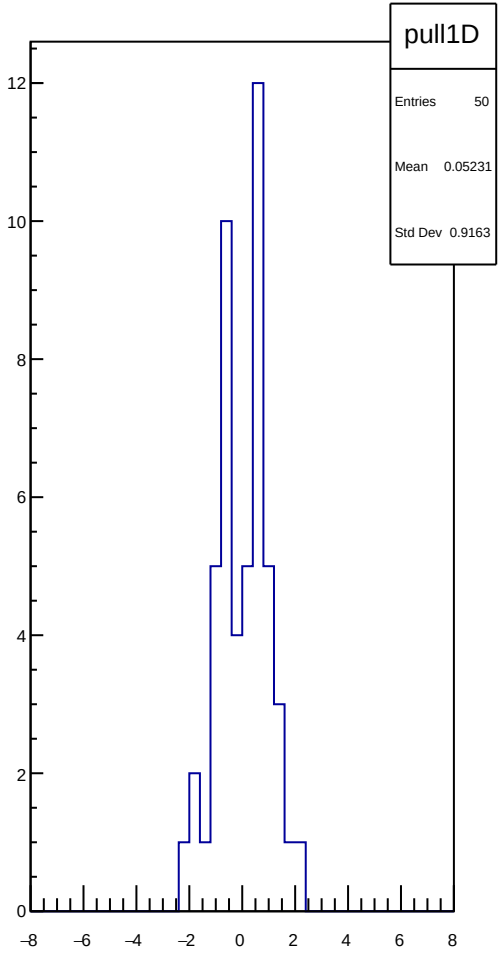
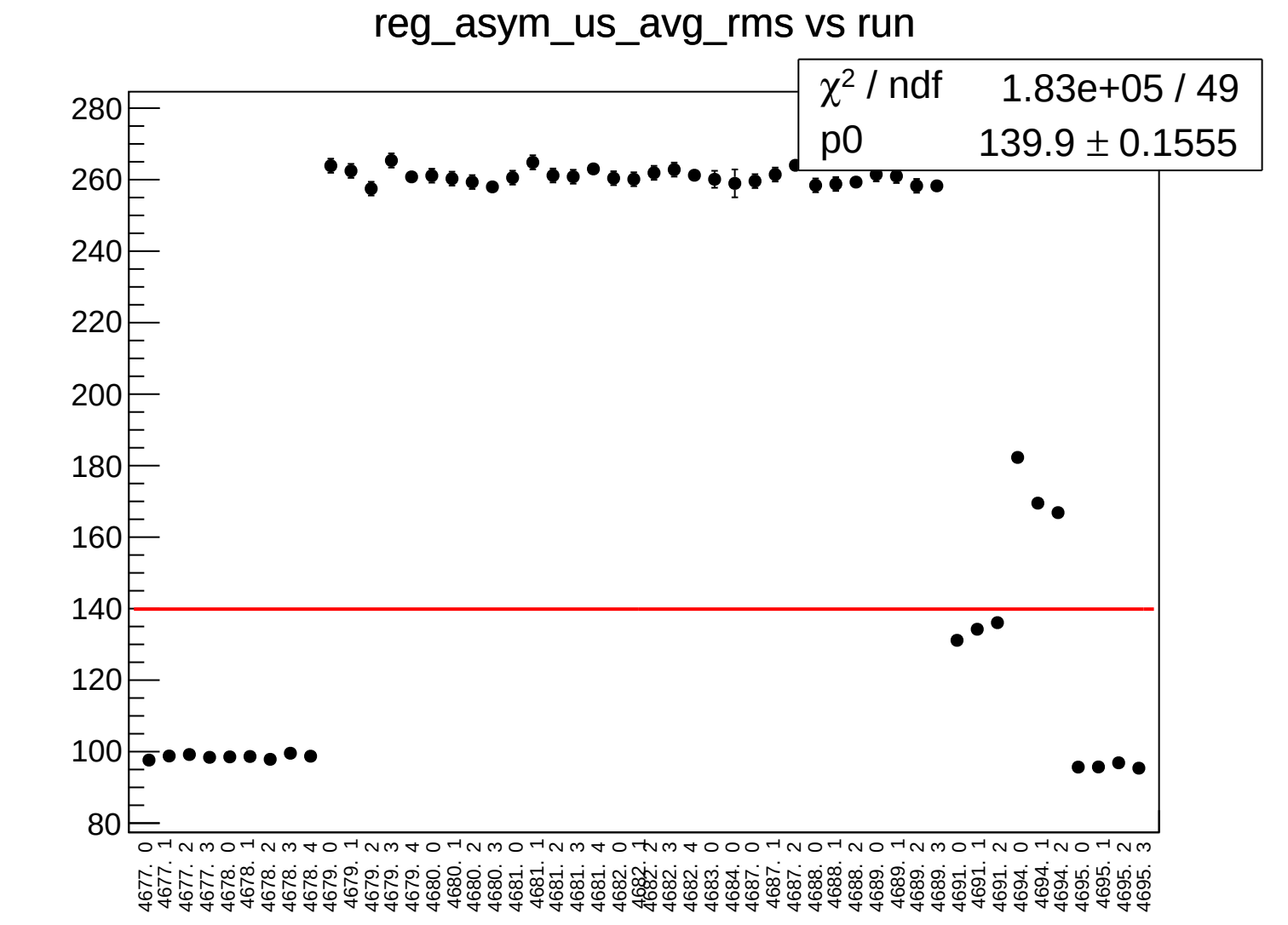
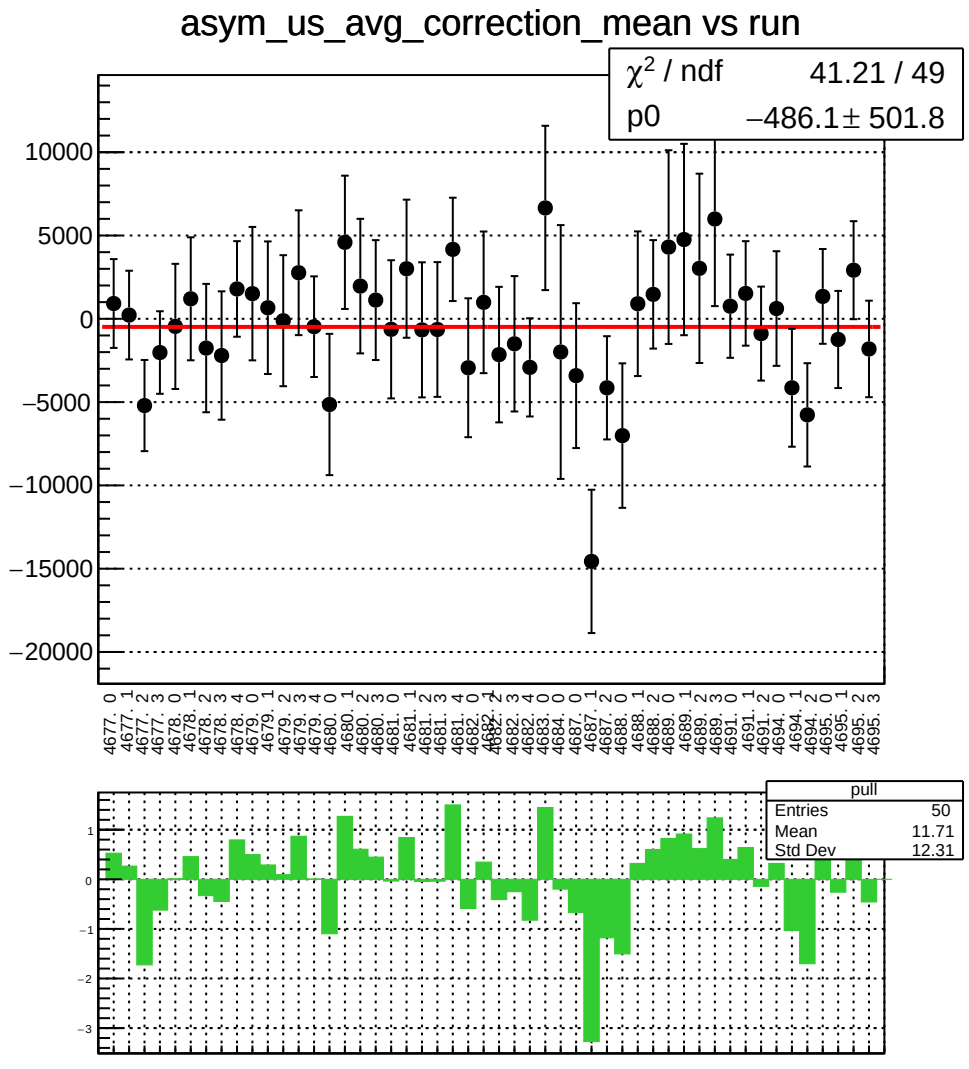
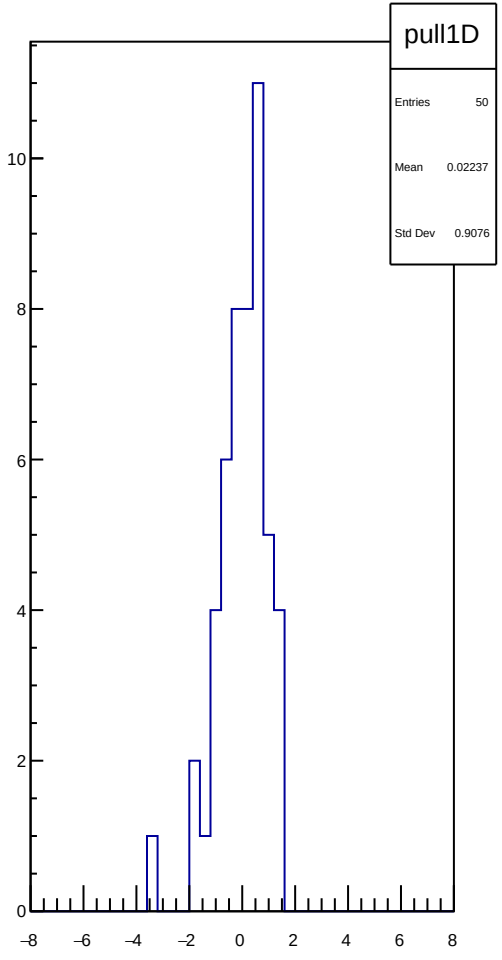
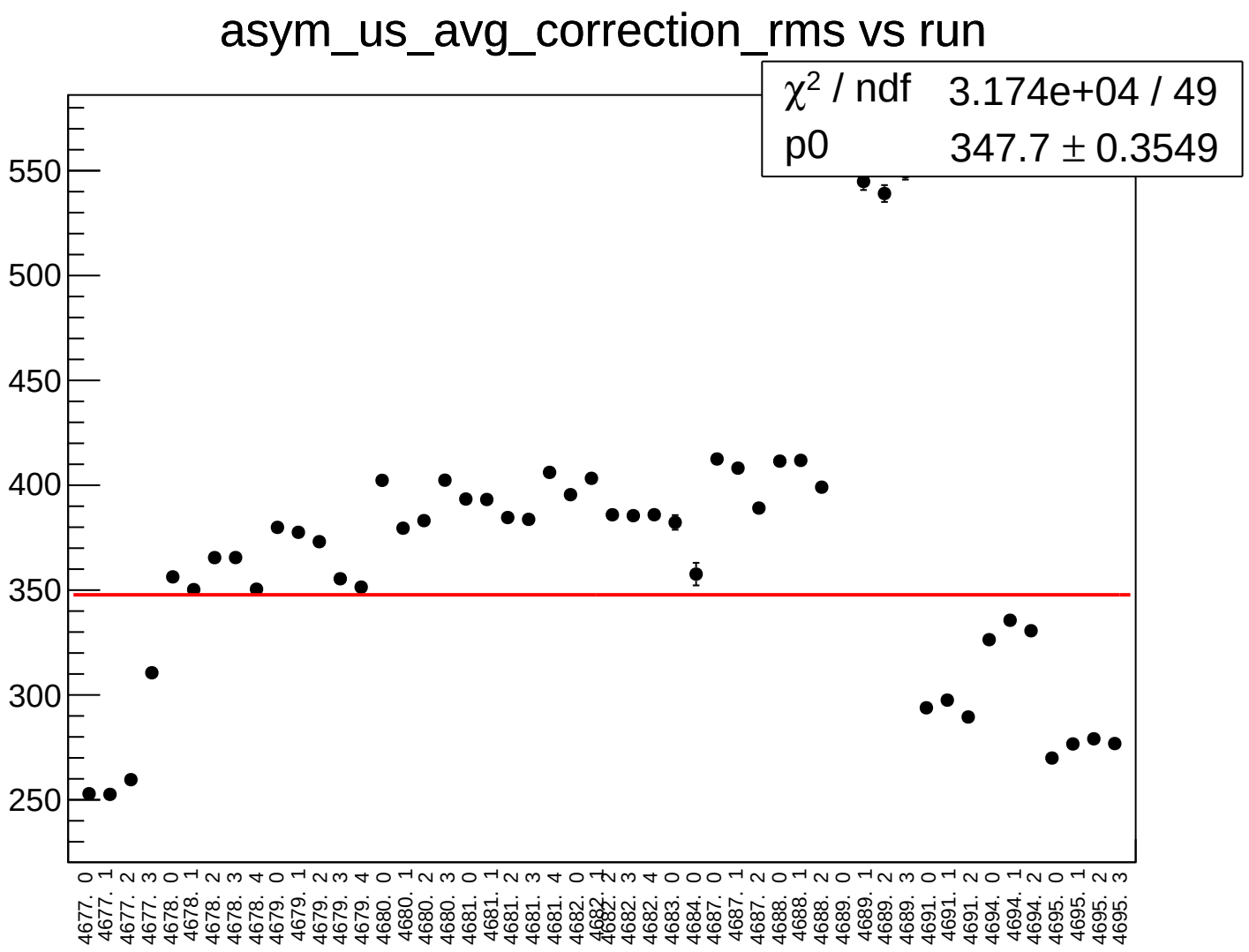

reg_asym_us_avg_mean vs run
χ² / ndf 42.12 / 49
p0 −891.9 ± 219.9
pull
Entries 50
Mean 71.39
Std Dev 48.29


pull1D
Entries 50
Mean 0.05231
Std Dev 0.9163


reg_asym_us_avg_rms vs run
χ² / ndf 1.83e+05 / 49
p0 139.9 ± 0.1555
280
260
240
220
200
180
160
140
120
100
80
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_us_avg_correction_mean vs run
χ² / ndf 41.21 / 49
p0 −486.1 ± 501.8
pull
Entries 50
Mean 11.71
Std Dev 12.31


pull1D
Entries 50
Mean 0.02237
Std Dev 0.9076


asym_us_avg_correction_rms vs run
χ² / ndf 3.174e+04 / 49
p0 347.7 ± 0.3549
550
500
450
400
350
300
250
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4691. 2
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4694. 1
4694. 2
4695. 0
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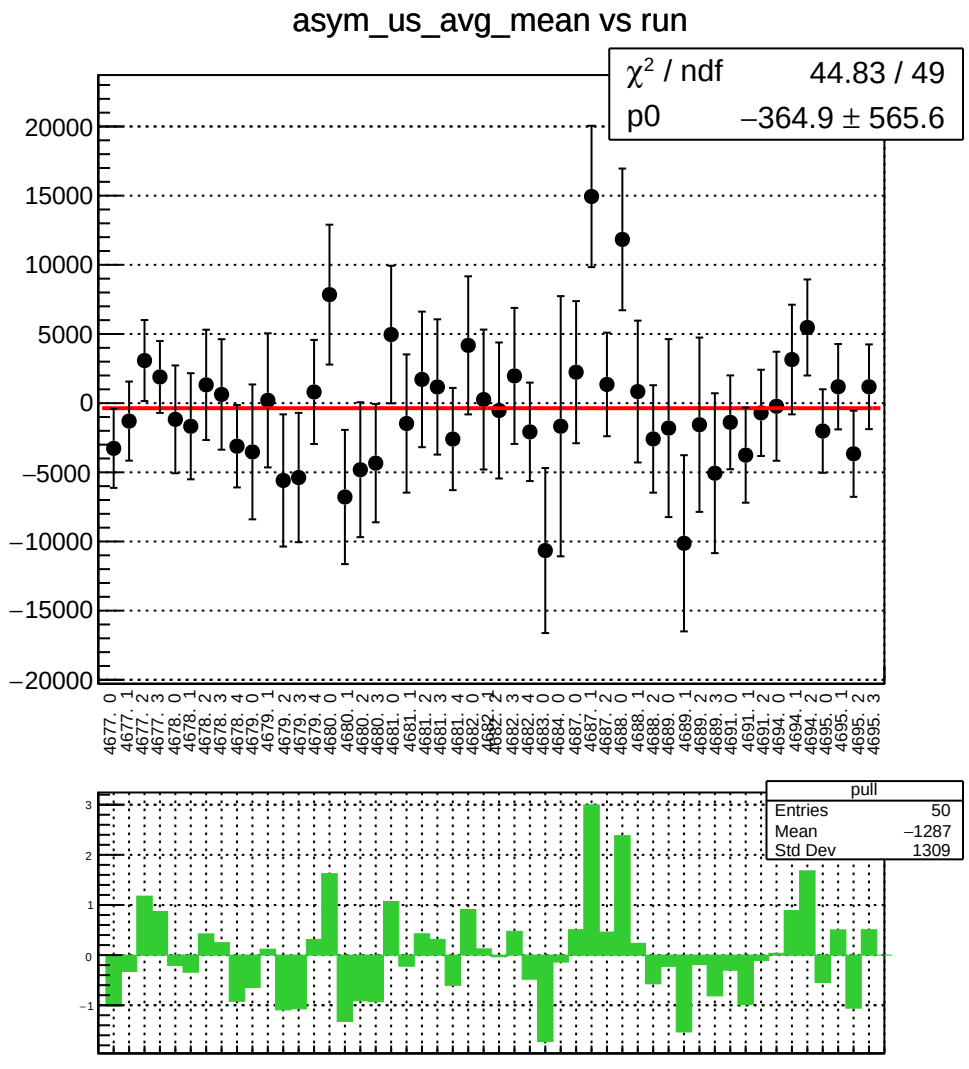
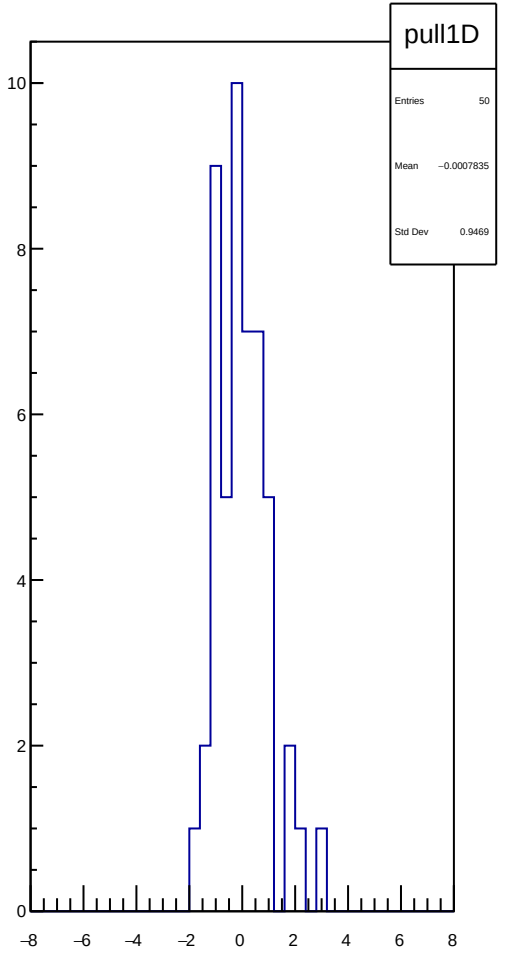
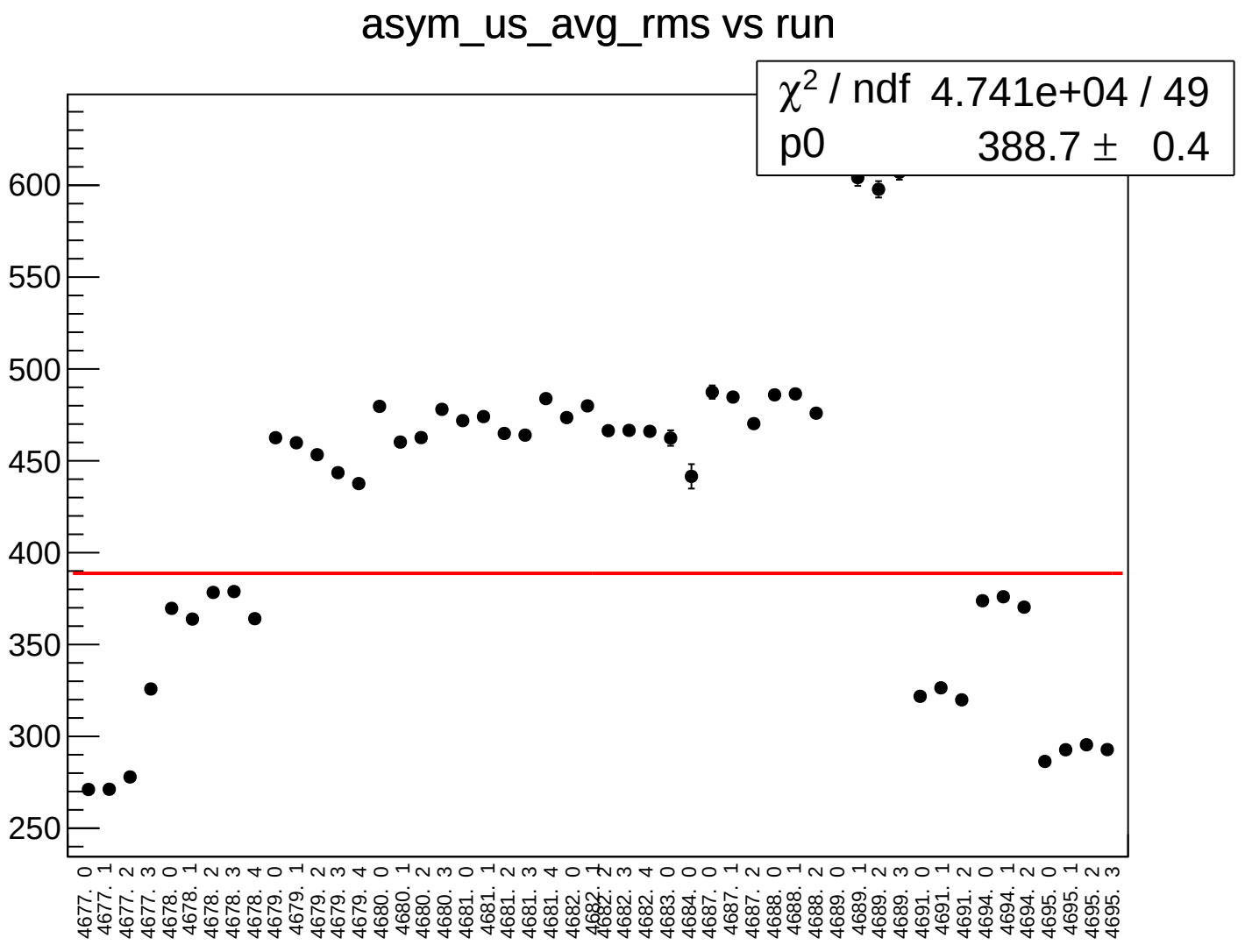
4695. 2
4695. 3


asym_us_avg_mean vs run
χ² / ndf 44.83 / 49
p0 −364.9 ± 565.6
pull
Entries 50
Mean −1287
Std Dev 1309


pull1D
Entries 50
Mean −0.0007835
Std Dev 0.9469


asym_us_avg_rms vs run
χ² / ndf 4.741e+04 / 49
p0 388.7 ± 0.4
600
550
500
450
400
350
300
250
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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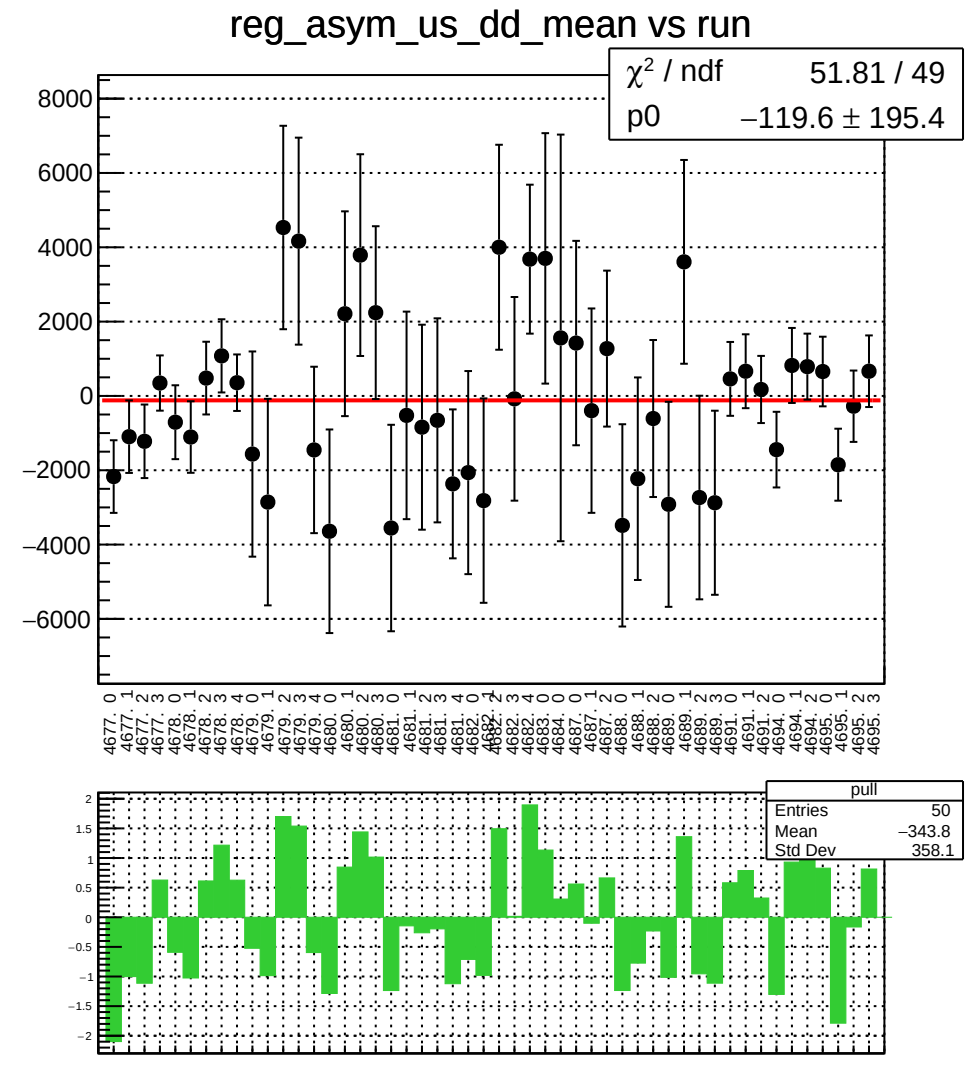
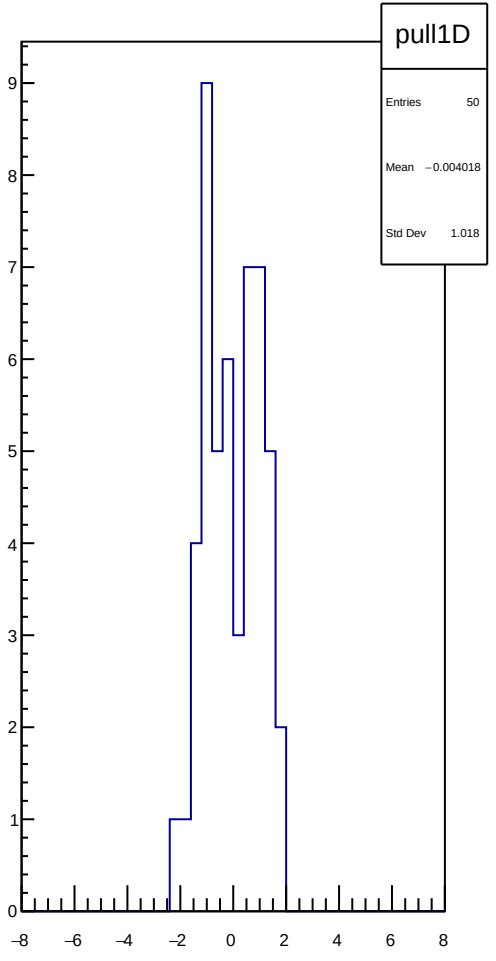
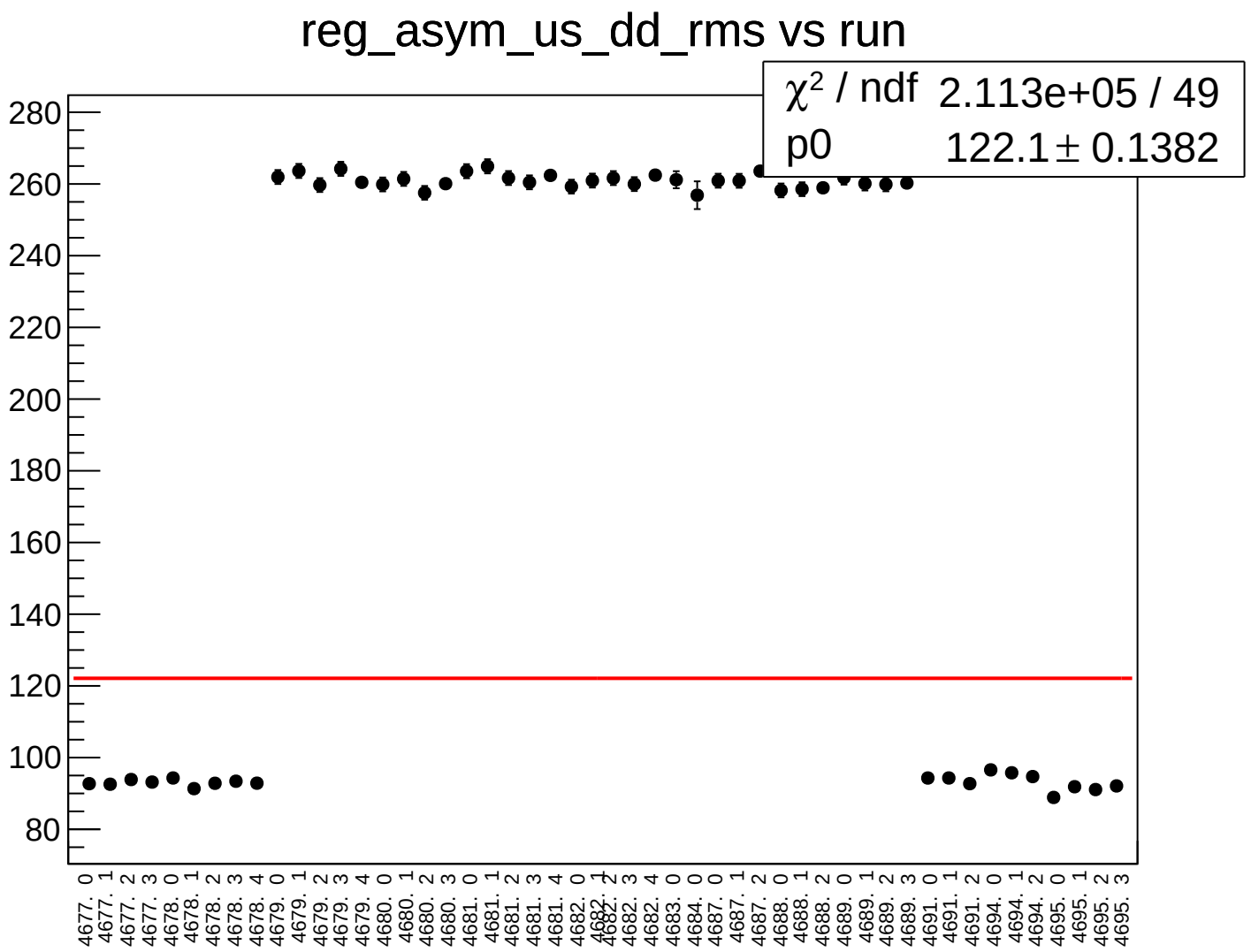
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


reg_asym_us_dd_mean vs run
χ² / ndf 51.81 / 49
p0 −119.6 ± 195.4
pull
Entries 50
Mean −343.8
Std Dev 358.1


pull1D
Entries 50
Mean −0.004018
Std Dev 1.018


reg_asym_us_dd_rms vs run
χ² / ndf 2.113e+05 / 49
p0 122.1 ± 0.1382
280
260
240
220
200
180
160
140
120
100
80
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
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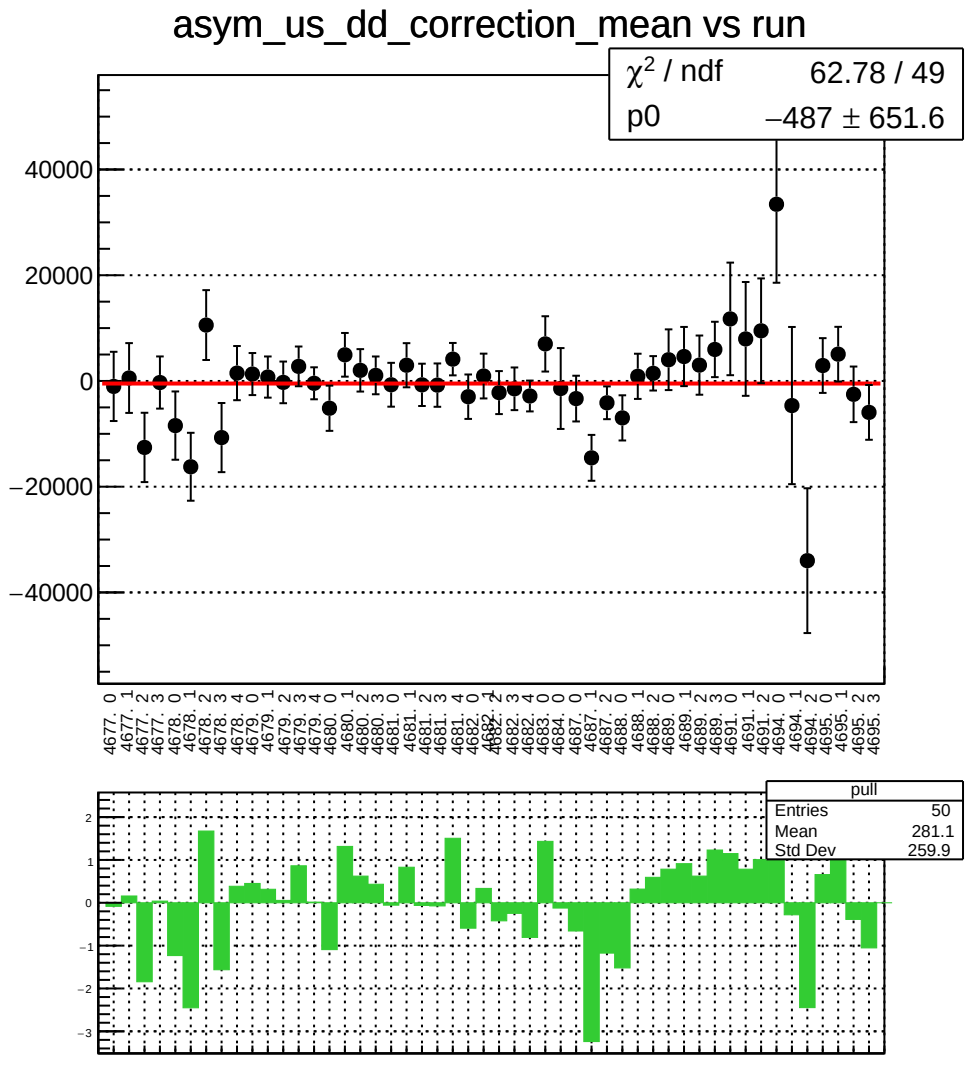
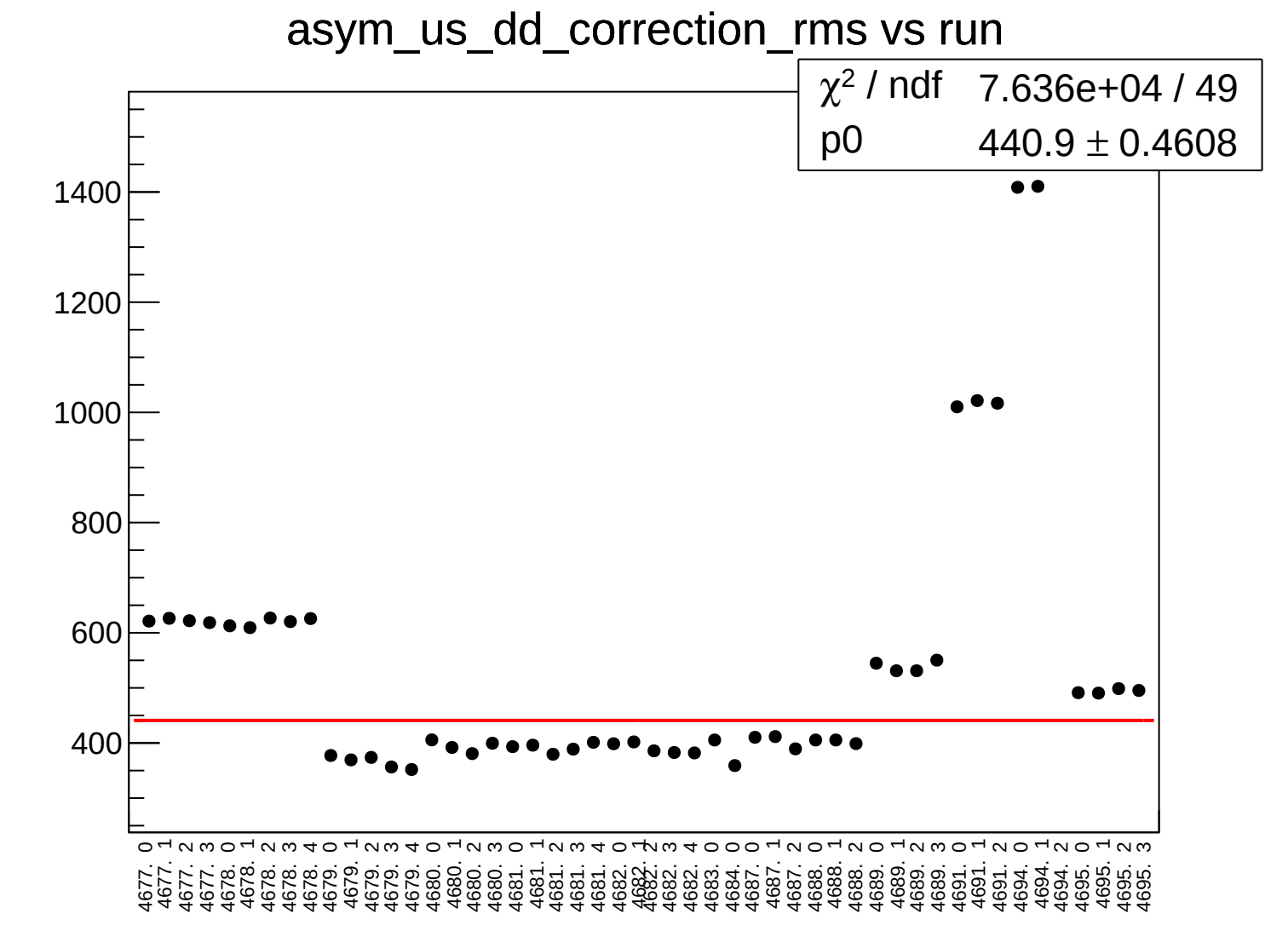
4695. 1
4695. 2
4695. 3


asym_us_dd_correction_mean vs run
χ² / ndf 62.78 / 49
p0 −487 ± 651.6
40000
20000
0
−20000
−40000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 281.1
Std Dev 259.9
2
1
0
−1
−2
−3
pull1D
Entries 50
Mean 0.008771
Std Dev 1.121
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_correction_rms vs run
χ² / ndf 7.636e+04 / 49
p0 440.9 ± 0.4608
1400
1200
1000
800
600
400
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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4691. 2
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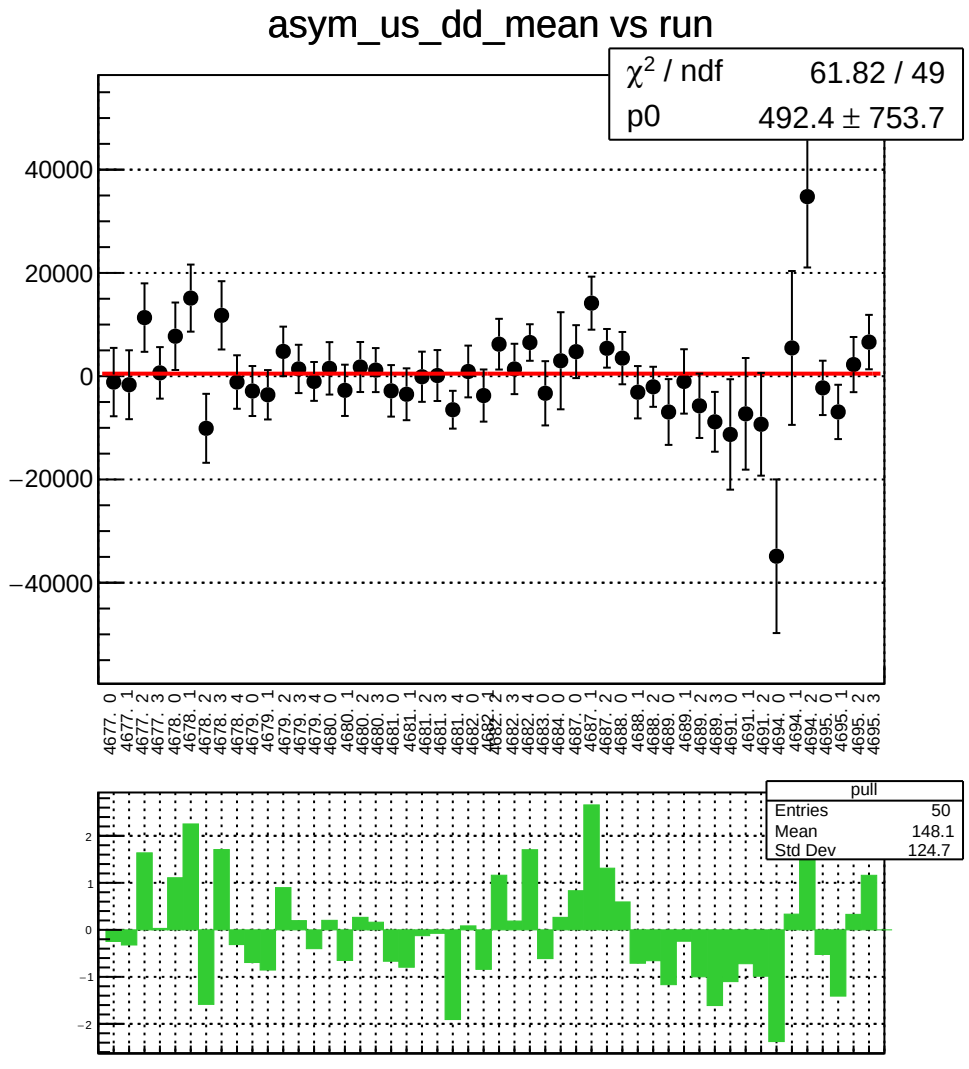
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_us_dd_mean vs run
χ² / ndf 61.82 / 49
p0 492.4 ± 753.7
40000
20000
0
−20000
−40000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
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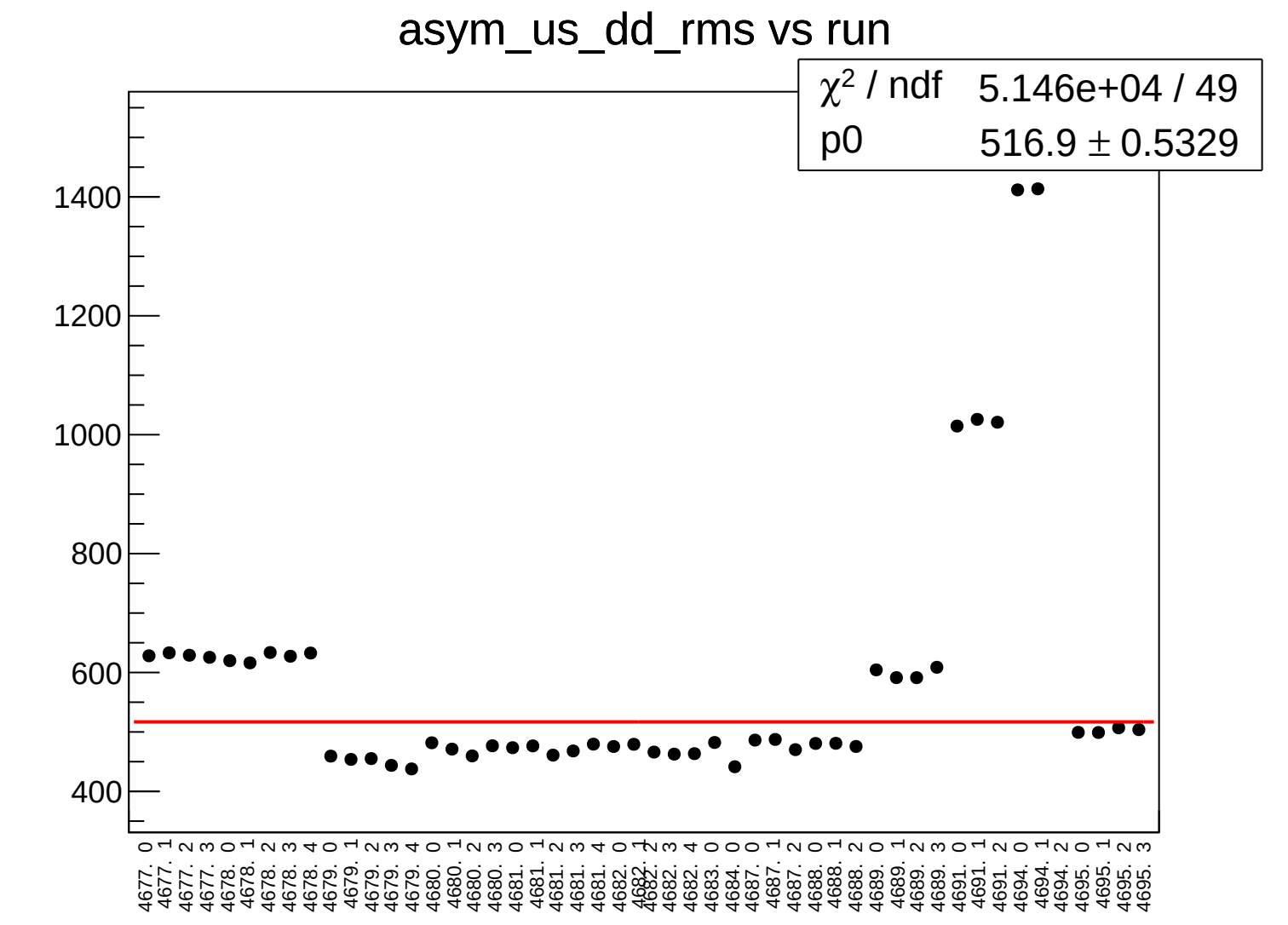
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 148.1
Std Dev 124.7
2
1
0
−1
−2
pull1D
Entries 50
Mean −0.01995
Std Dev 1.112
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_rms vs run
χ² / ndf 5.146e+04 / 49
p0 516.9 ± 0.5329
1400
1200
1000
800
600
400
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
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4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
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4683. 0
4684. 0
4687. 0
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4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
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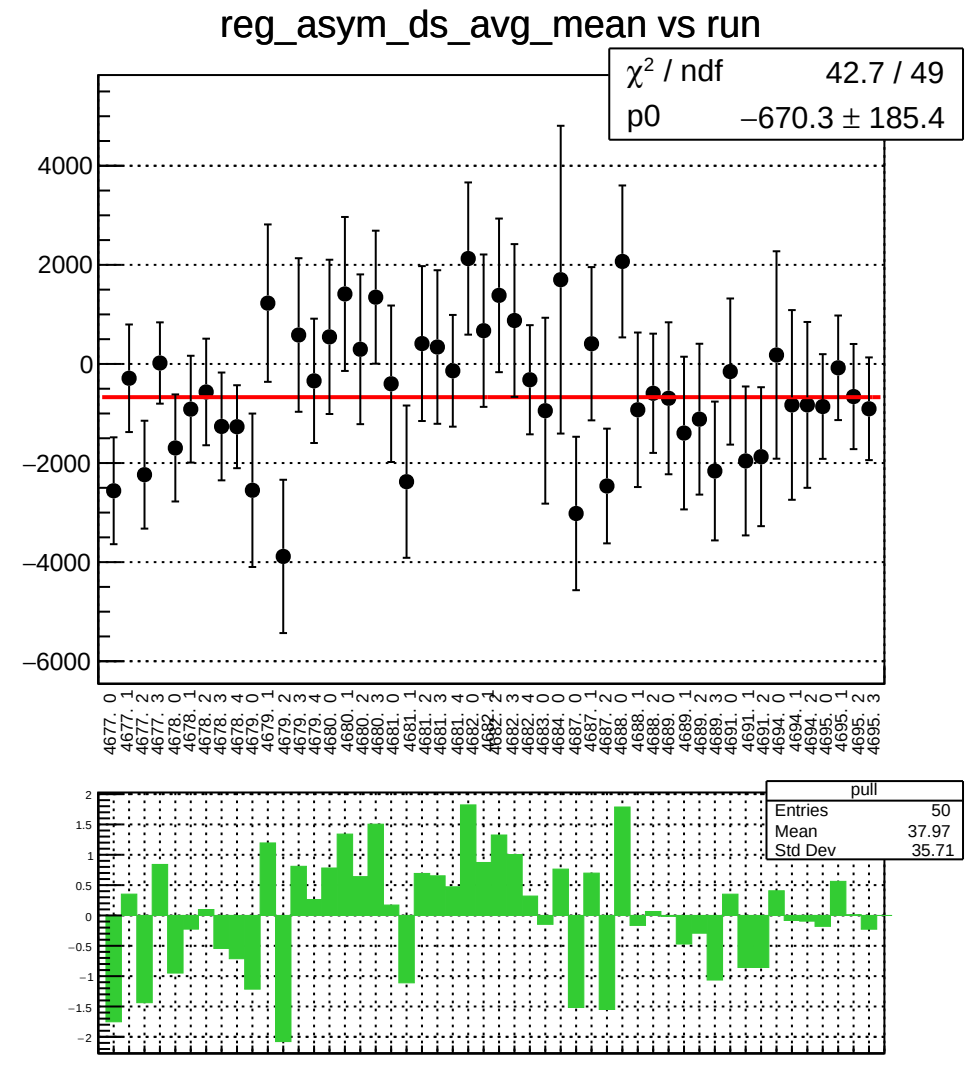
4695. 2
4695. 3


reg_asym_ds_avg_mean vs run
χ² / ndf 42.7 / 49
p0 −670.3 ± 185.4
4000
2000
0
−2000
−4000
−6000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
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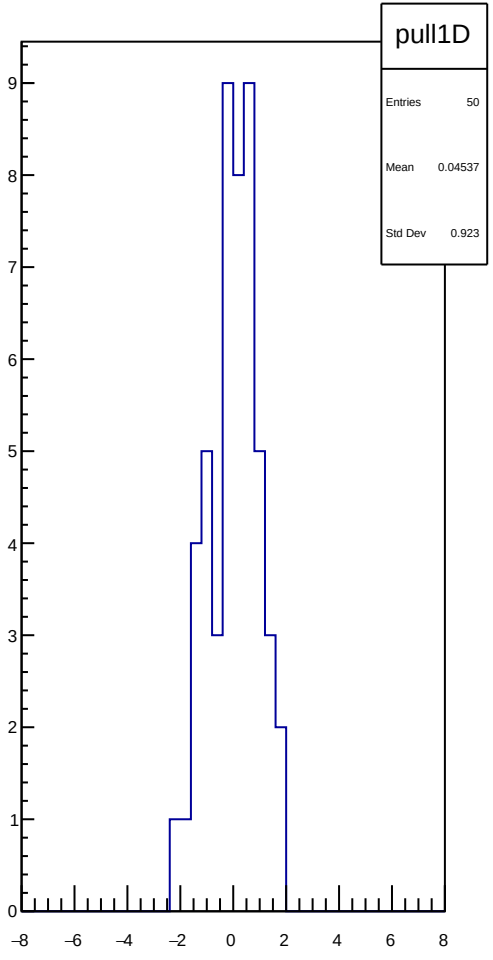
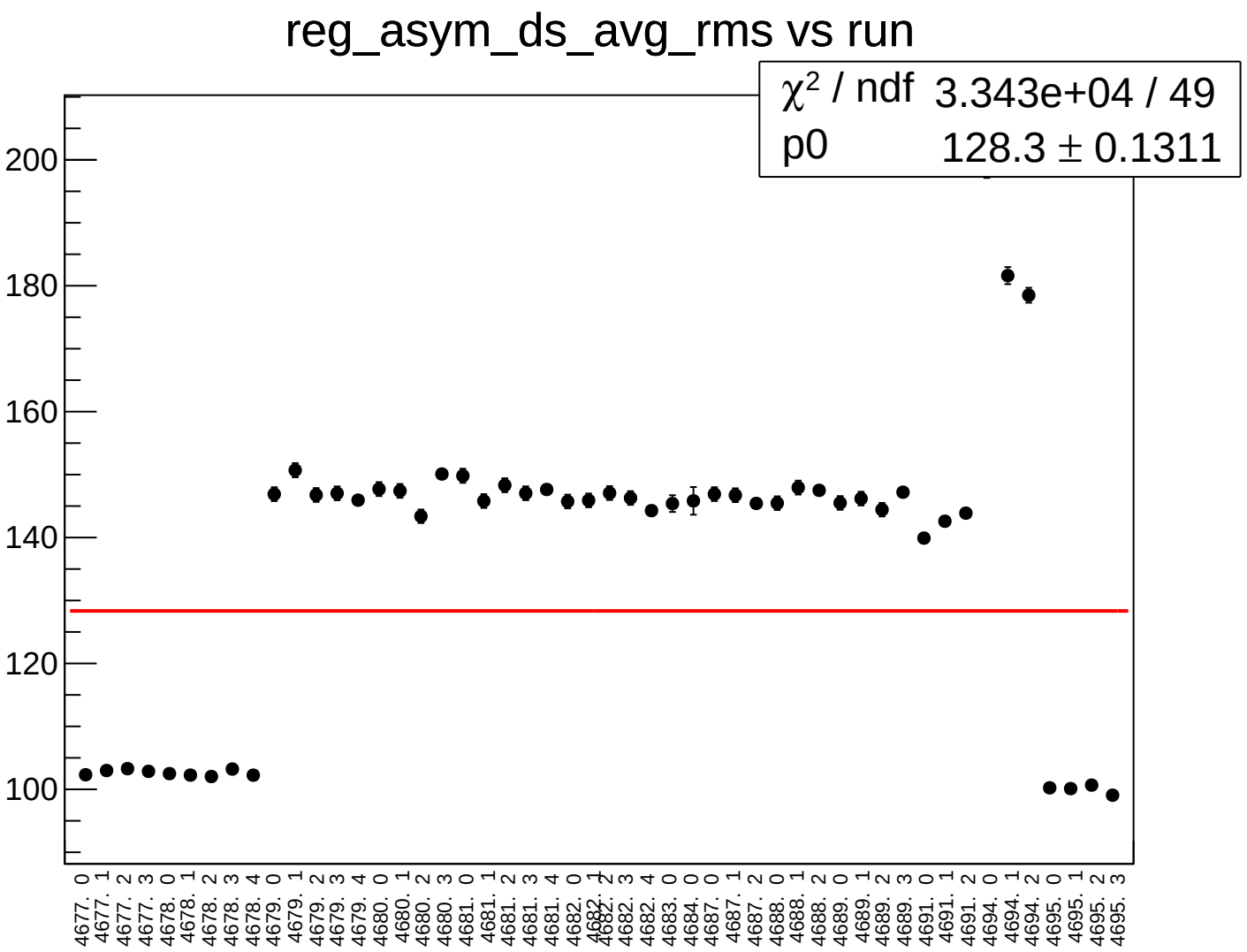
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4688. 3
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 37.97
Std Dev 35.71
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean 0.04537
Std Dev 0.923
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_ds_avg_rms vs run
χ² / ndf 3.343e+04 / 49
p0 128.3 ± 0.1311
200
180
160
140
120
100
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
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4691. 2
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4695. 0
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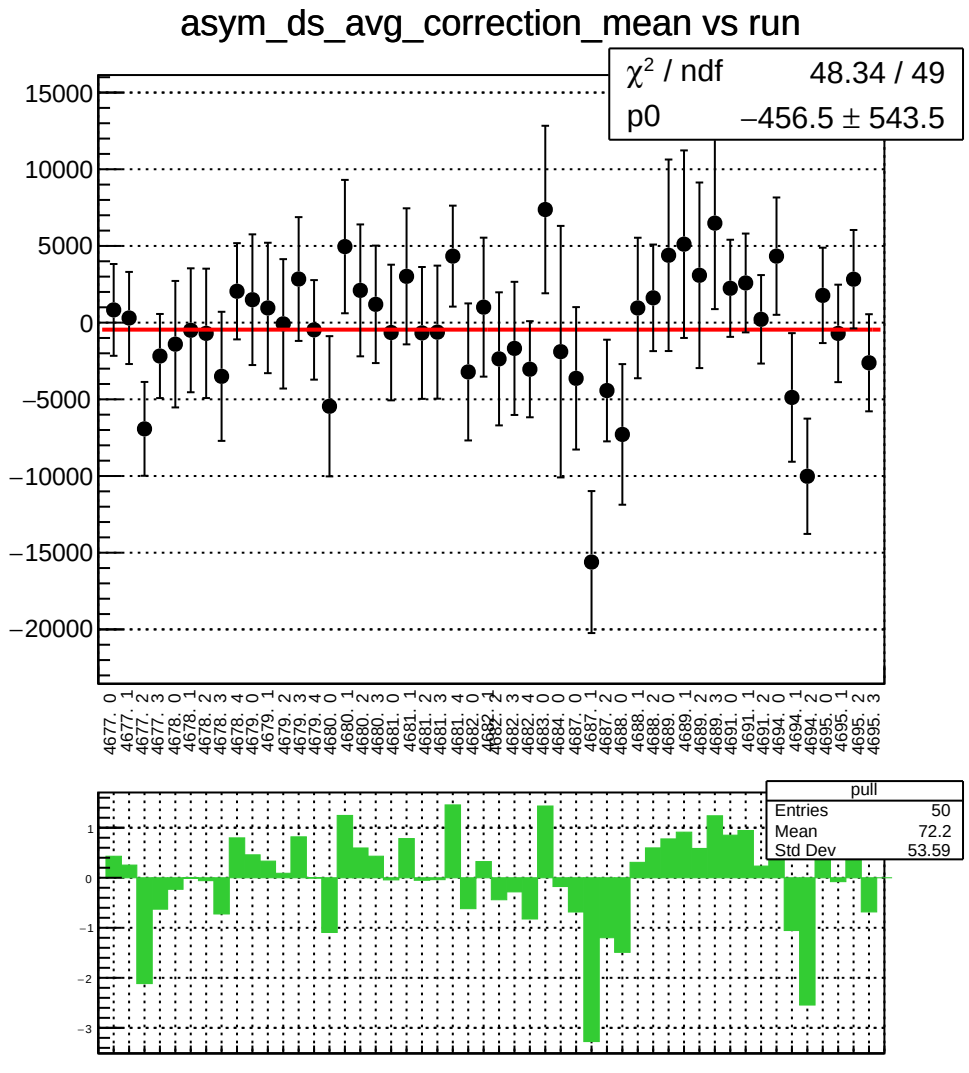
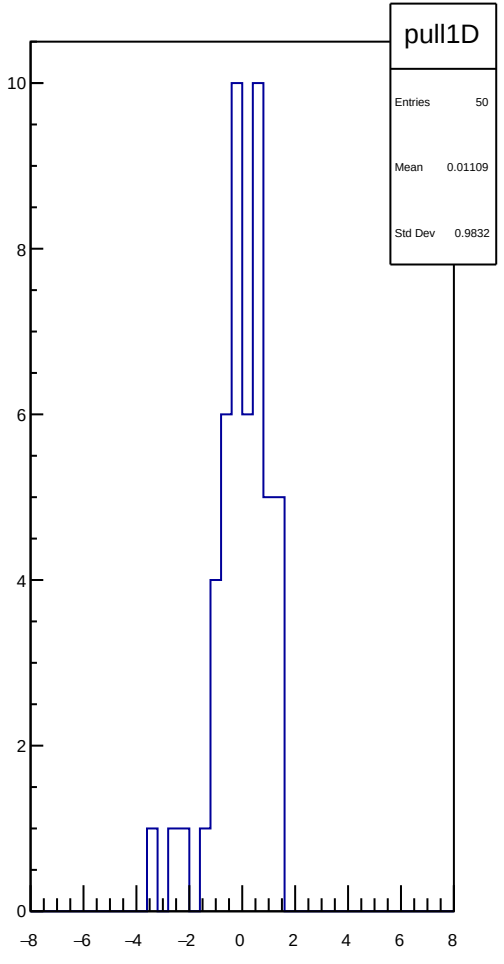
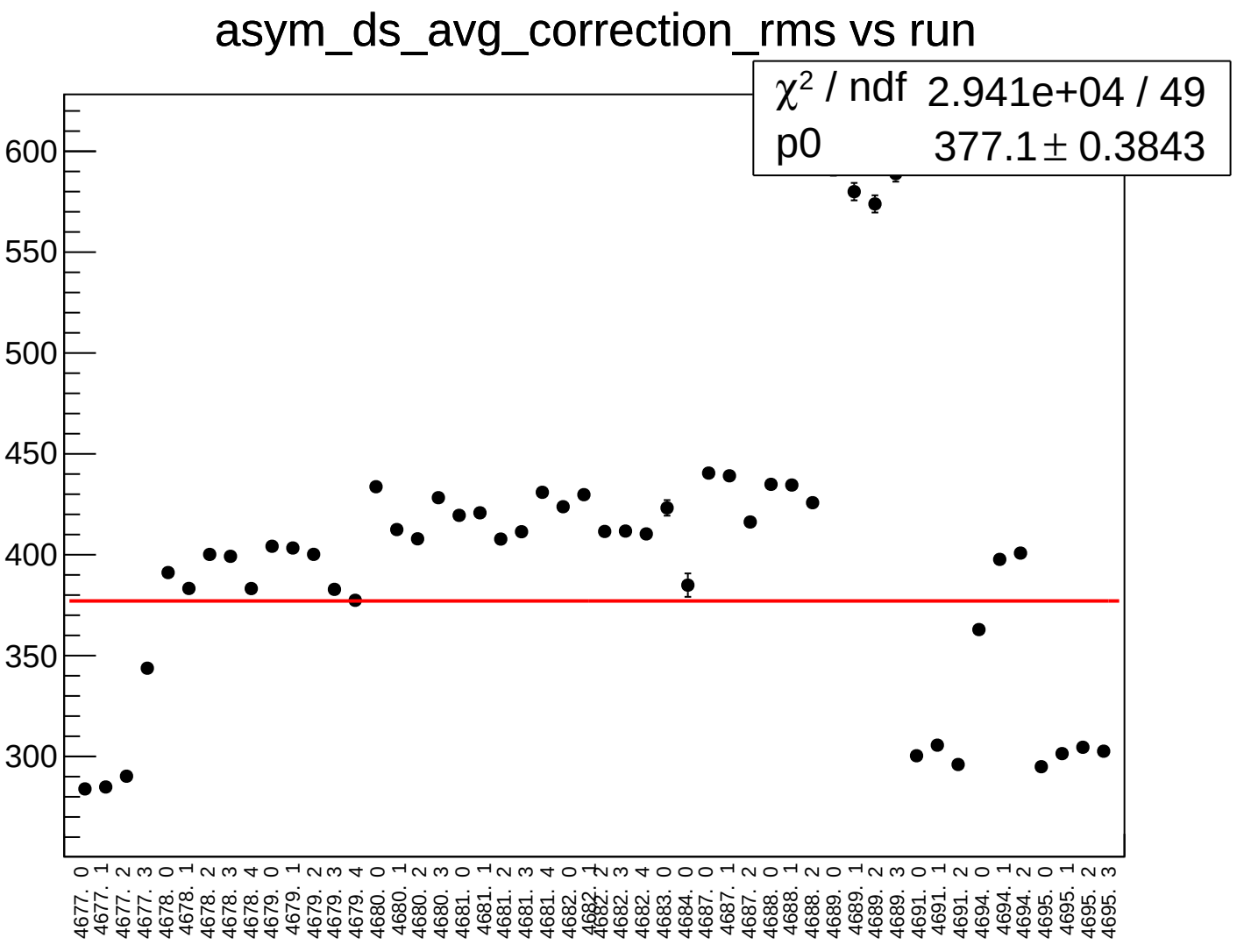
4695. 2
4695. 3


asym_ds_avg_correction_mean vs run
χ² / ndf 48.34 / 49
p0 −456.5 ± 543.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 50
Mean 72.2
Std Dev 53.59
1
0
−1
−2
−3


pull1D
Entries 50
Mean 0.01109
Std Dev 0.9832
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_ds_avg_correction_rms vs run
χ² / ndf 2.941e+04 / 49
p0 377.1 ± 0.3843
600
550
500
450
400
350
300
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
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4680. 2
4680. 3
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4681. 2
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4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
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4689. 1
4689. 2
4689. 3
4691. 0
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4691. 2
4694. 0
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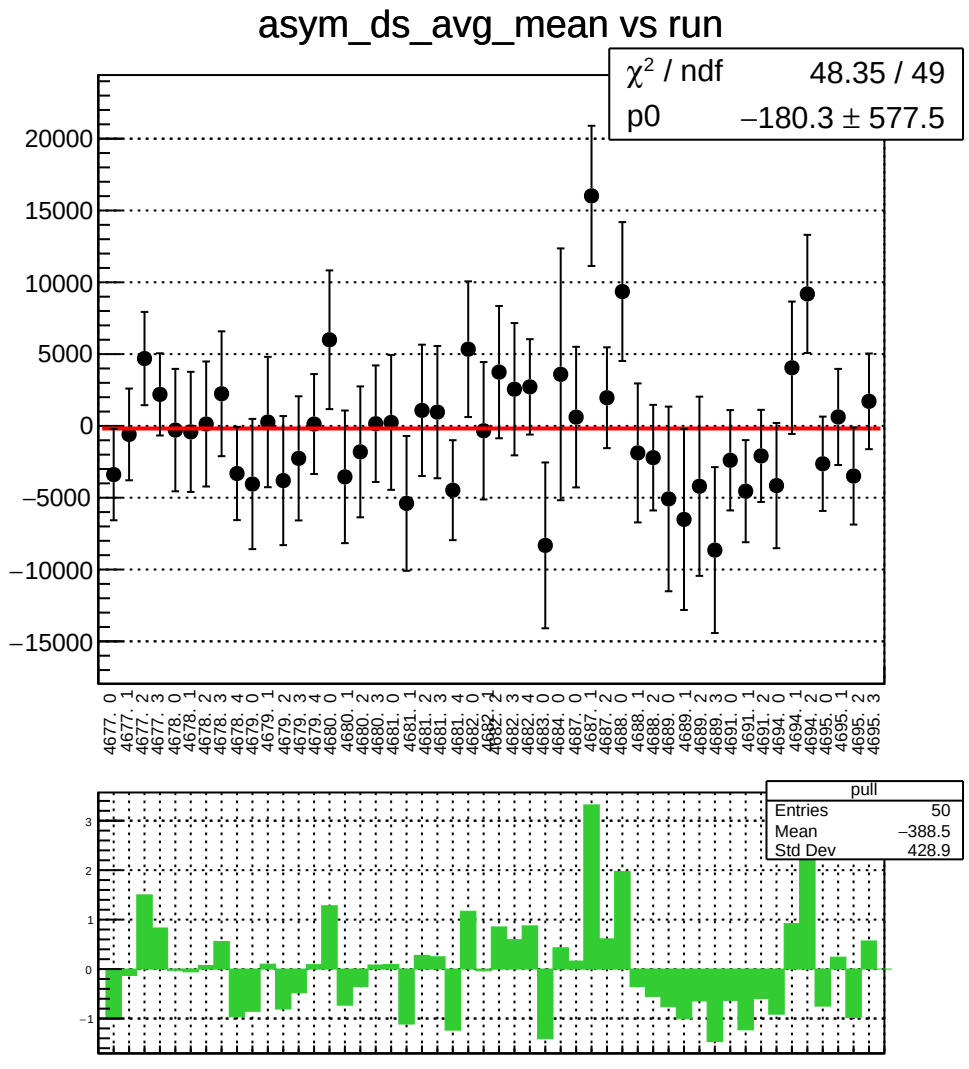
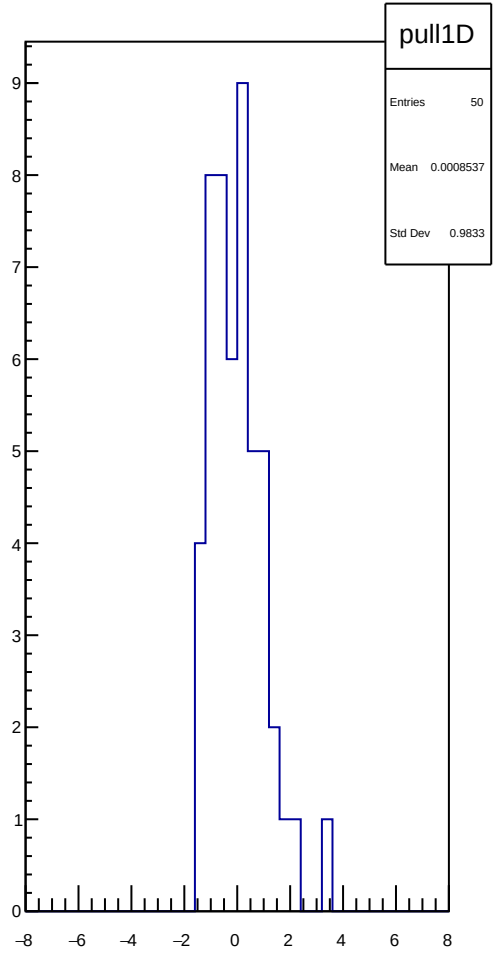
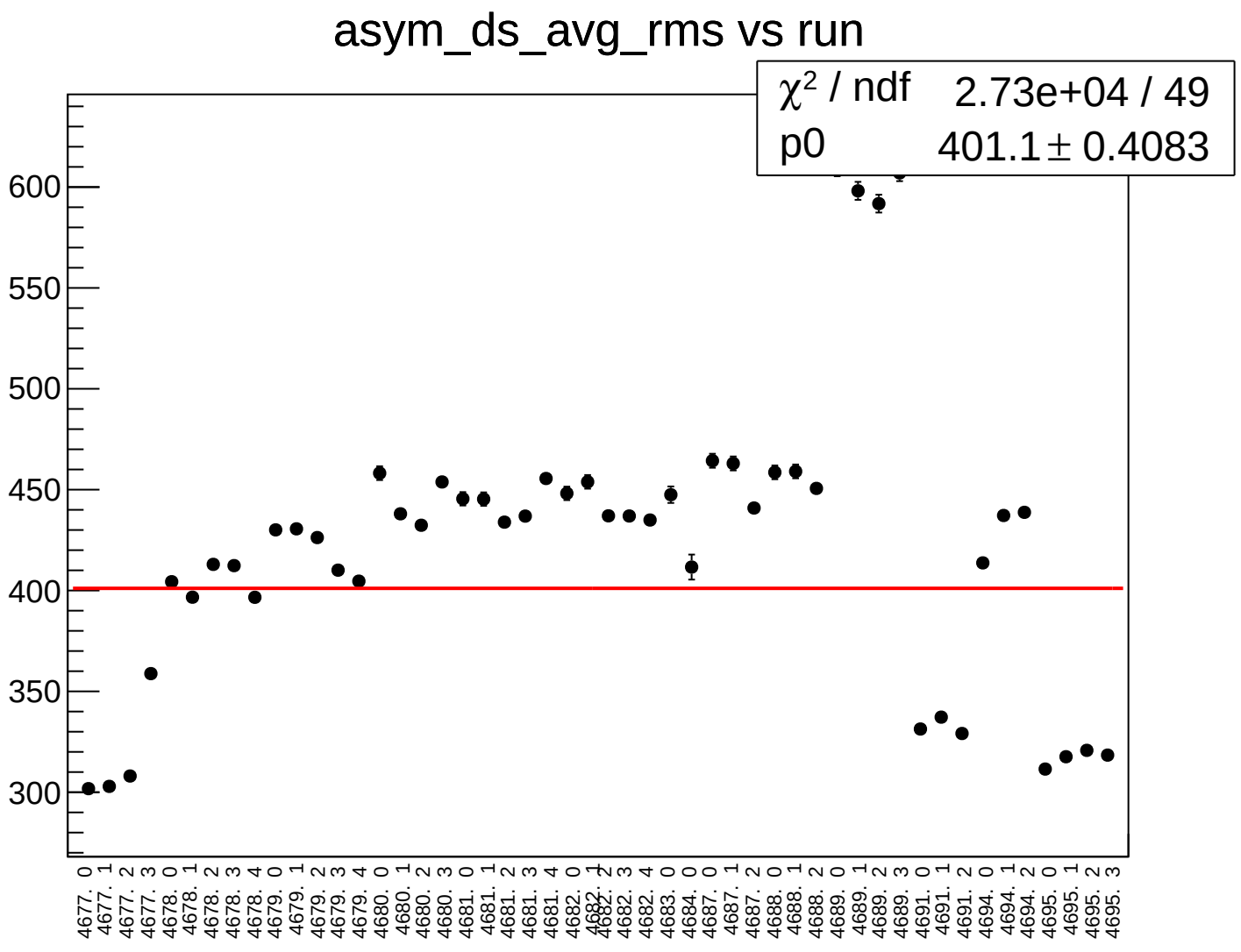
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_ds_avg_mean vs run
χ² / ndf 48.35 / 49
p0 −180.3 ± 577.5
20000
15000
10000
5000
0
−5000
−10000
−15000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean −388.5
Std Dev 428.9
3
2
1
0
−1


pull1D
Entries 50
Mean 0.0008537
Std Dev 0.9833
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_ds_avg_rms vs run
χ² / ndf 2.73e+04 / 49
p0 401.1 ± 0.4083
600
550
500
450
400
350
300
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
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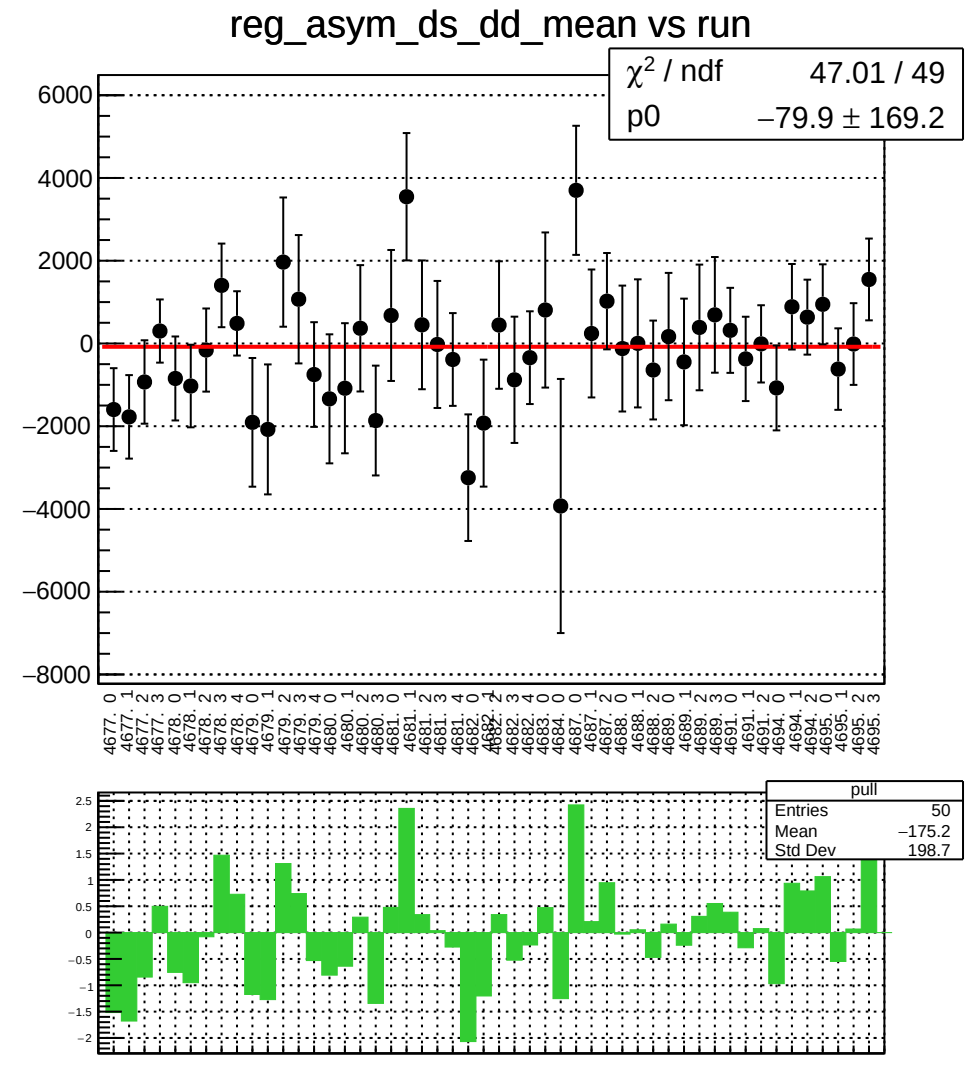
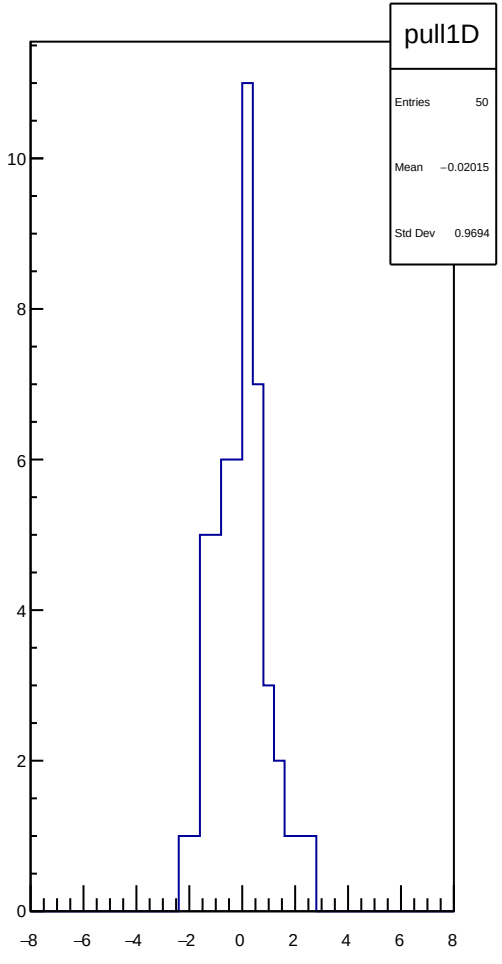
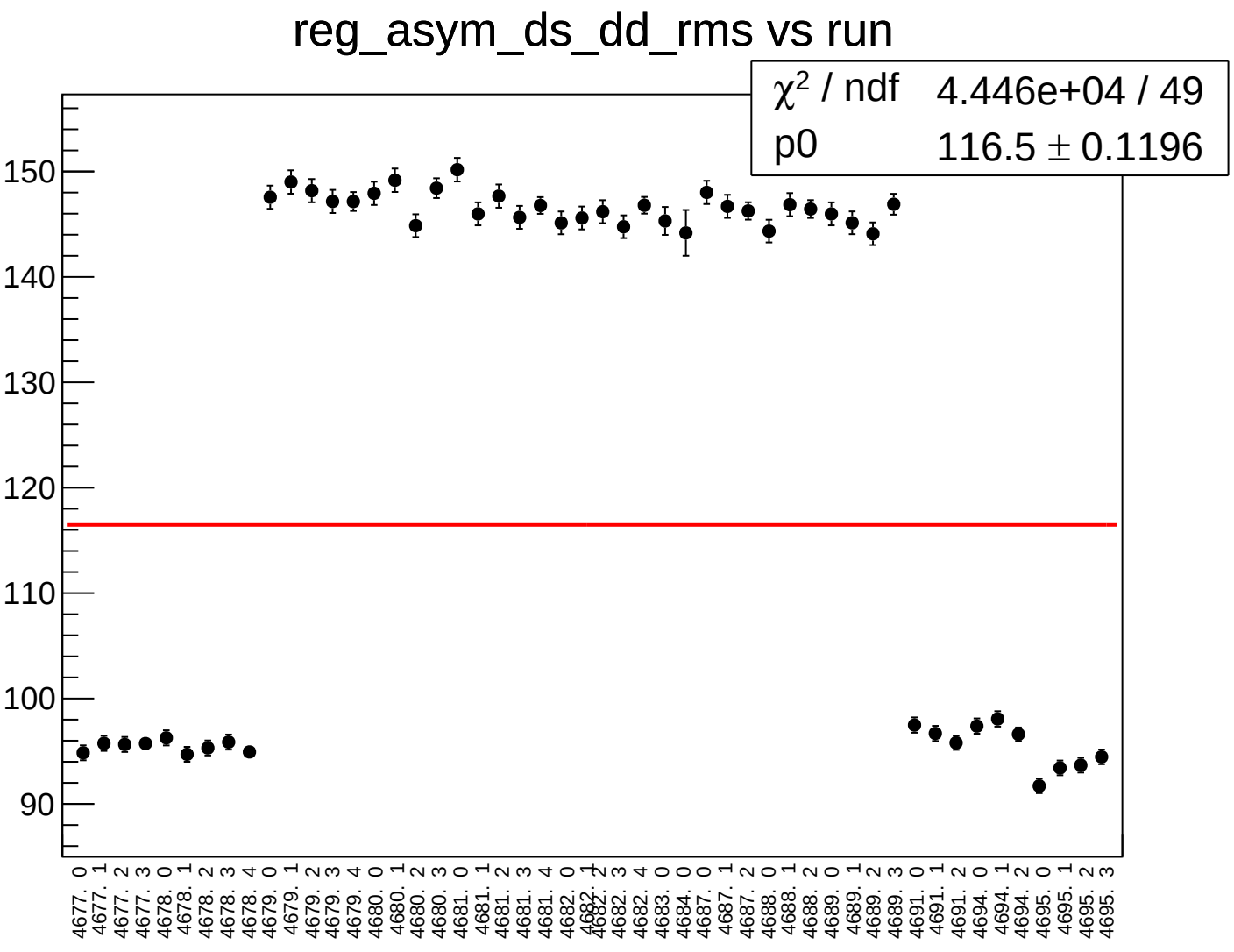
4695. 2
4695. 3


reg_asym_ds_dd_mean vs run
χ² / ndf 47.01 / 49
p0 −79.9 ± 169.2
pull
Entries 50
Mean −175.2
Std Dev 198.7


pull1D
Entries 50
Mean −0.02015
Std Dev 0.9694


reg_asym_ds_dd_rms vs run
χ² / ndf 4.446e+04 / 49
p0 116.5 ± 0.1196
150
140
130
120
110
100
90
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
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4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
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4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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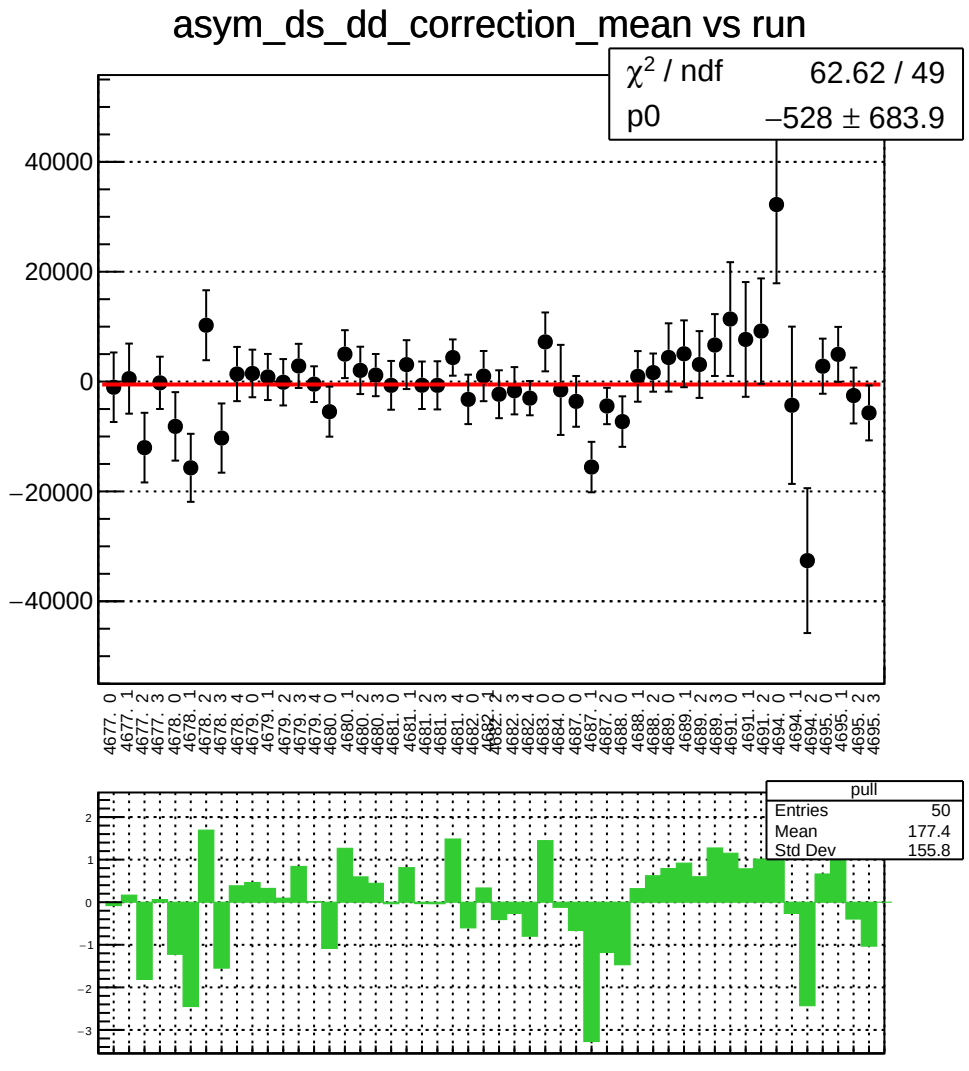
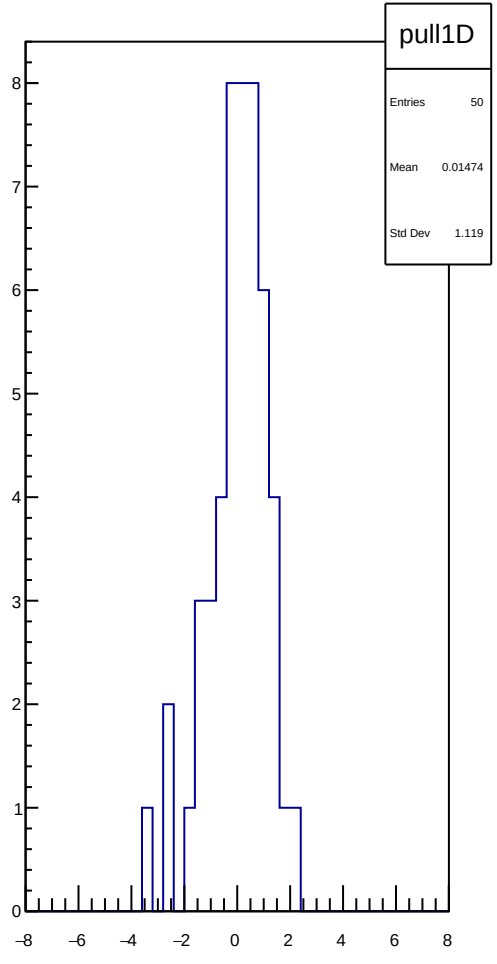
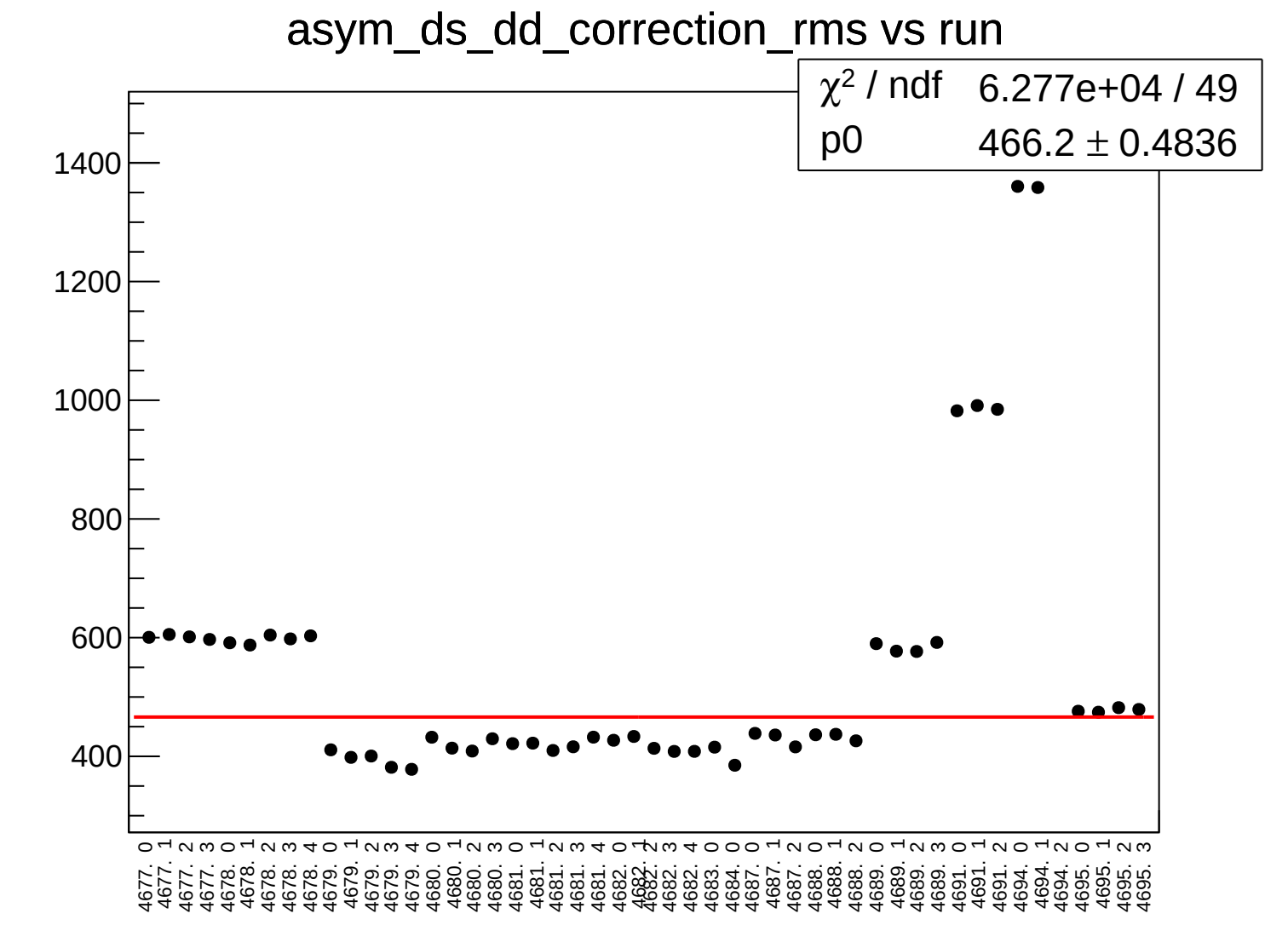
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_ds_dd_correction_mean vs run
χ² / ndf 62.62 / 49
p0 −528 ± 683.9
40000
20000
0
−20000
−40000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 177.4
Std Dev 155.8
2
1
0
−1
−2
−3


pull1D
Entries 50
Mean 0.01474
Std Dev 1.119
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_ds_dd_correction_rms vs run
χ² / ndf 6.277e+04 / 49
p0 466.2 ± 0.4836
1400
1200
1000
800
600
400
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
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4687. 2
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4688. 1
4688. 2
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4689. 1
4689. 2
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4694. 0
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4694. 2
4695. 0
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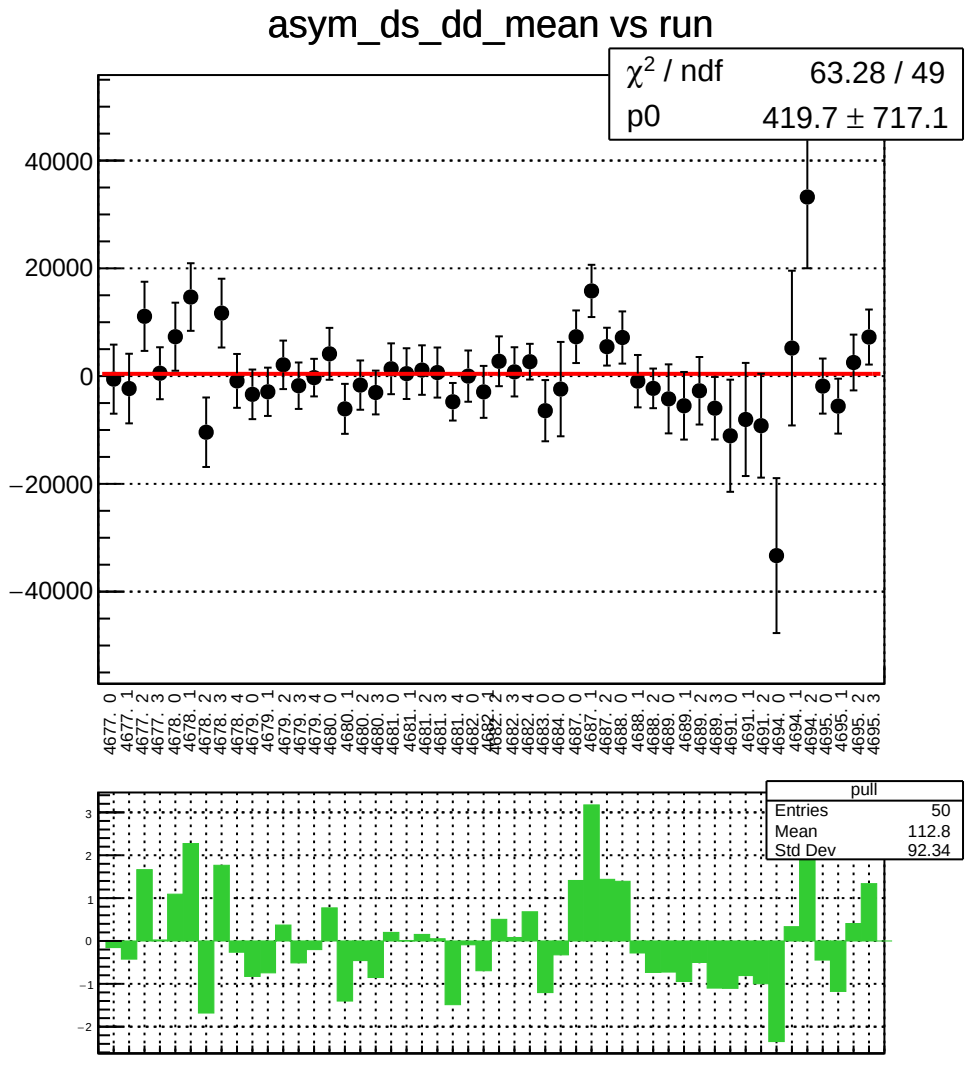
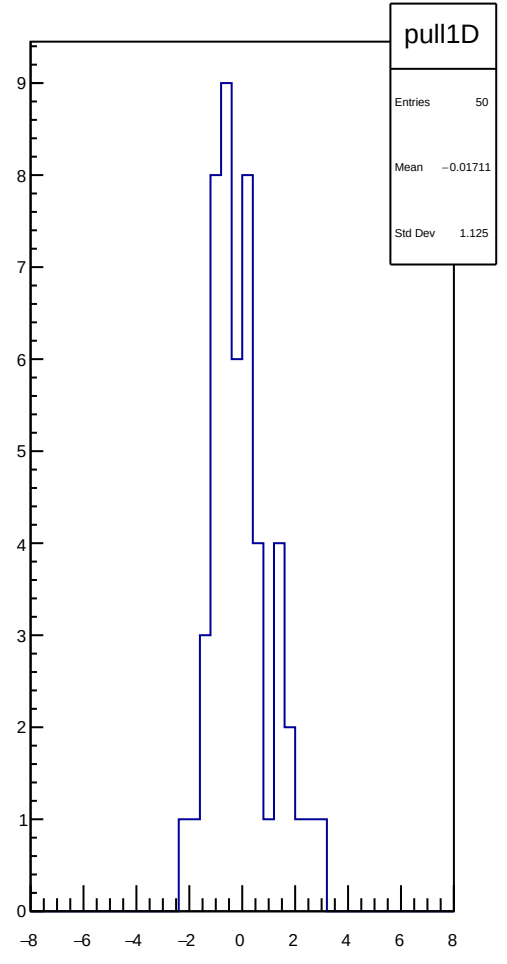
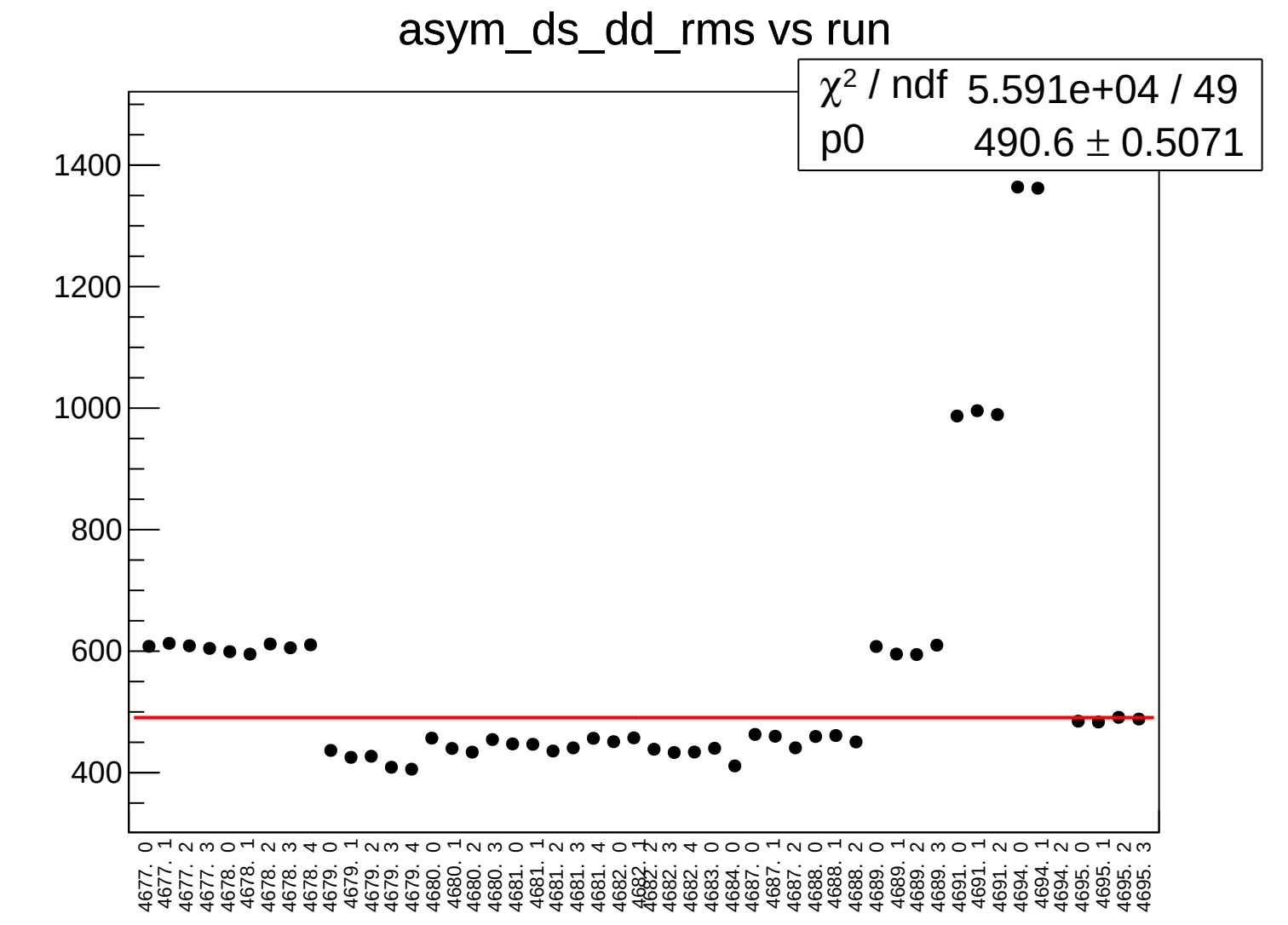
4695. 2
4695. 3


asym_ds_dd_mean vs run
χ² / ndf 63.28 / 49
p0 419.7 ± 717.1
40000
20000
0
−20000
−40000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 112.8
Std Dev 92.34
3
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.01711
Std Dev 1.125
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_ds_dd_rms vs run
χ² / ndf 5.591e+04 / 49
p0 490.6 ± 0.5071
1400
1200
1000
800
600
400
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
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4689. 1
4689. 2
4689. 3
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4691. 2
4694. 0
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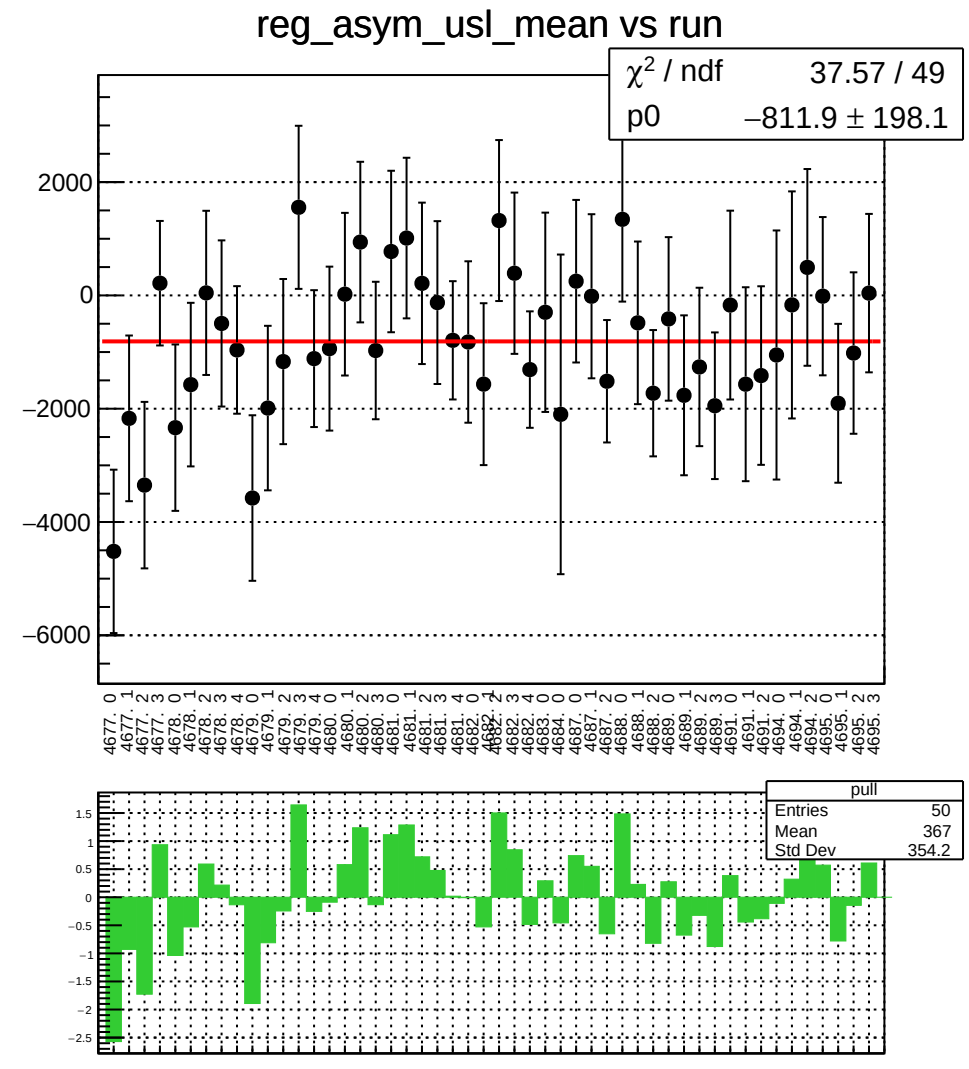
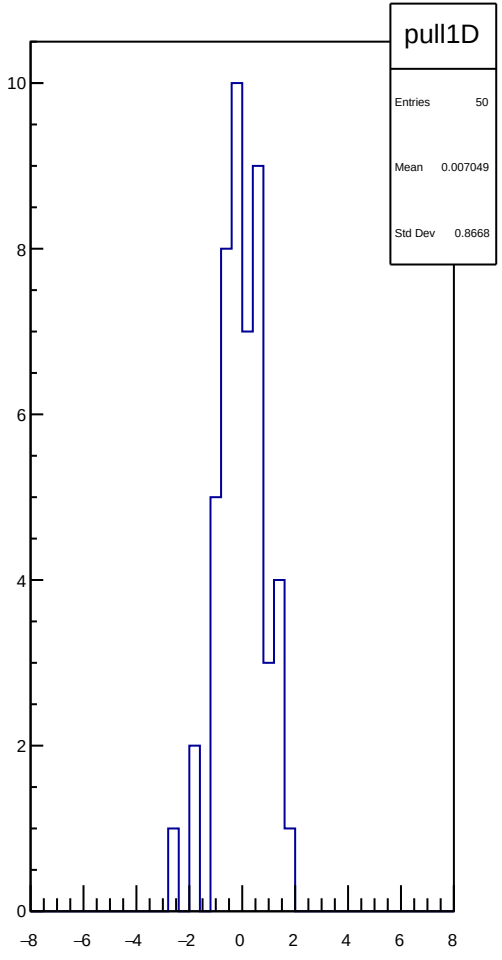
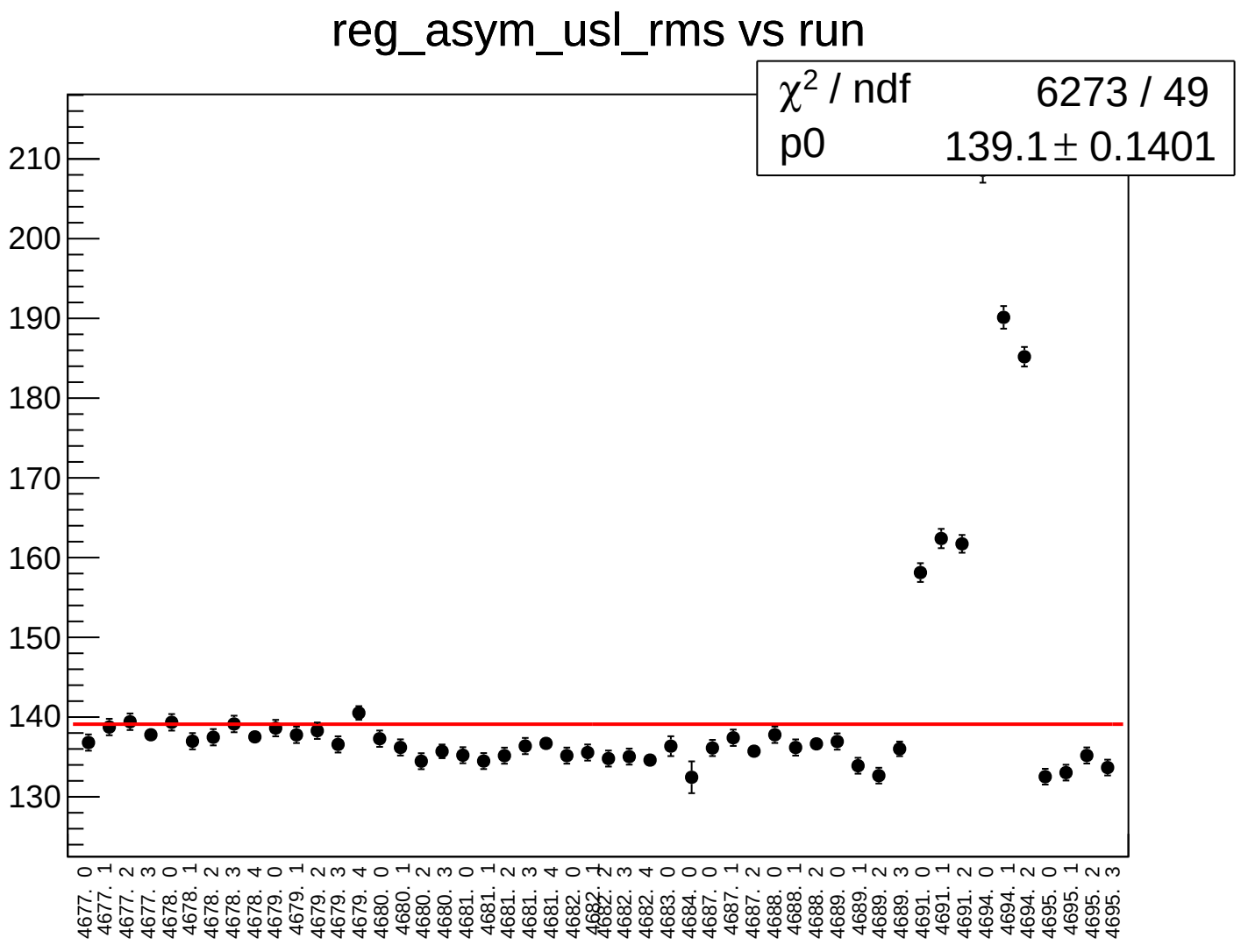
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


reg_asym_usl_mean vs run
χ² / ndf 37.57 / 49
p0 −811.9 ± 198.1
2000
0
−2000
−4000
−6000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4688. 3
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 367
Std Dev 354.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 50
Mean 0.007049
Std Dev 0.8668
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usl_rms vs run
χ² / ndf 6273 / 49
p0 139.1 ± 0.1401
210
200
190
180
170
160
150
140
130
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
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4680. 3
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4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4691. 2
4694. 0
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4694. 2
4695. 0
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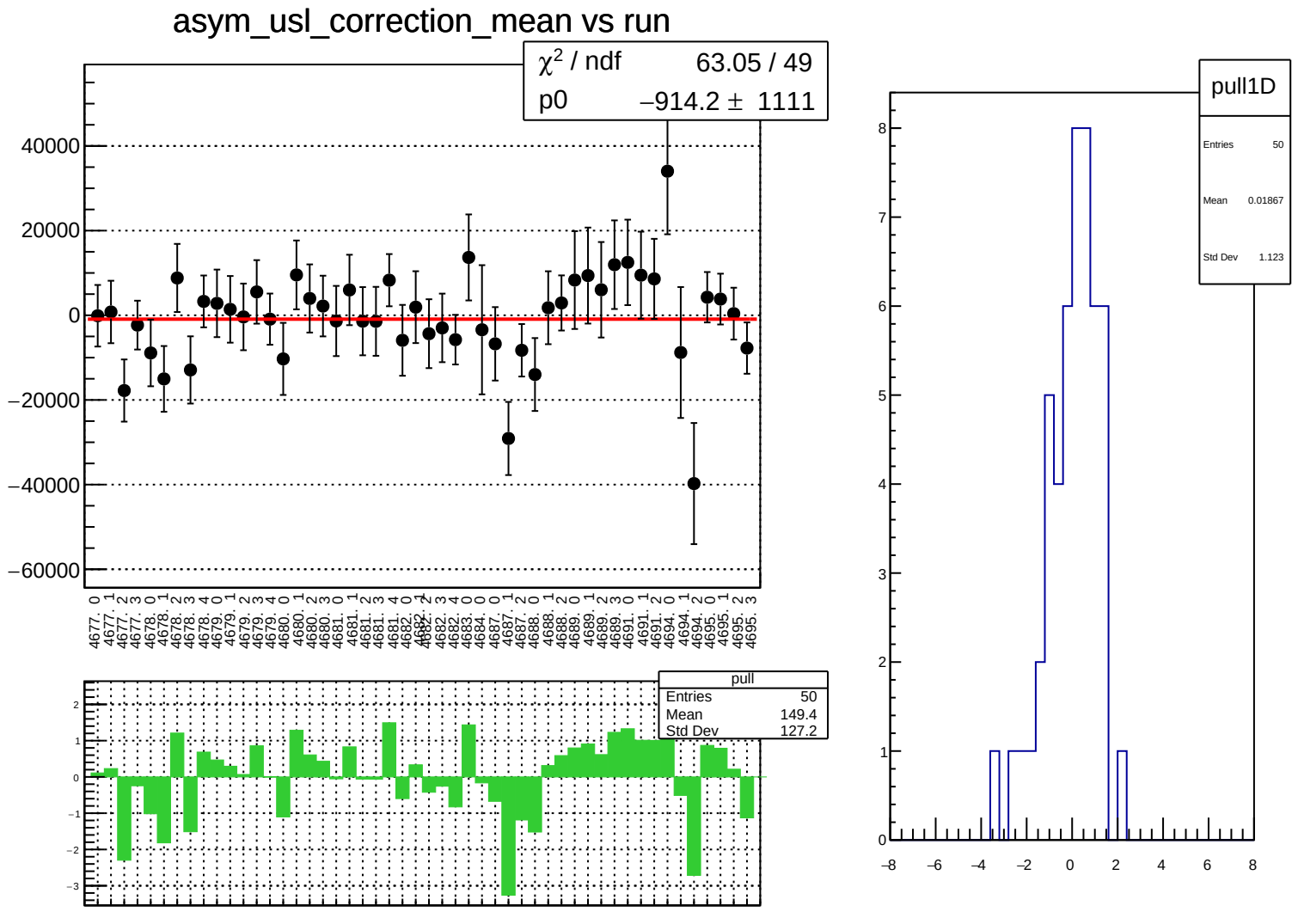
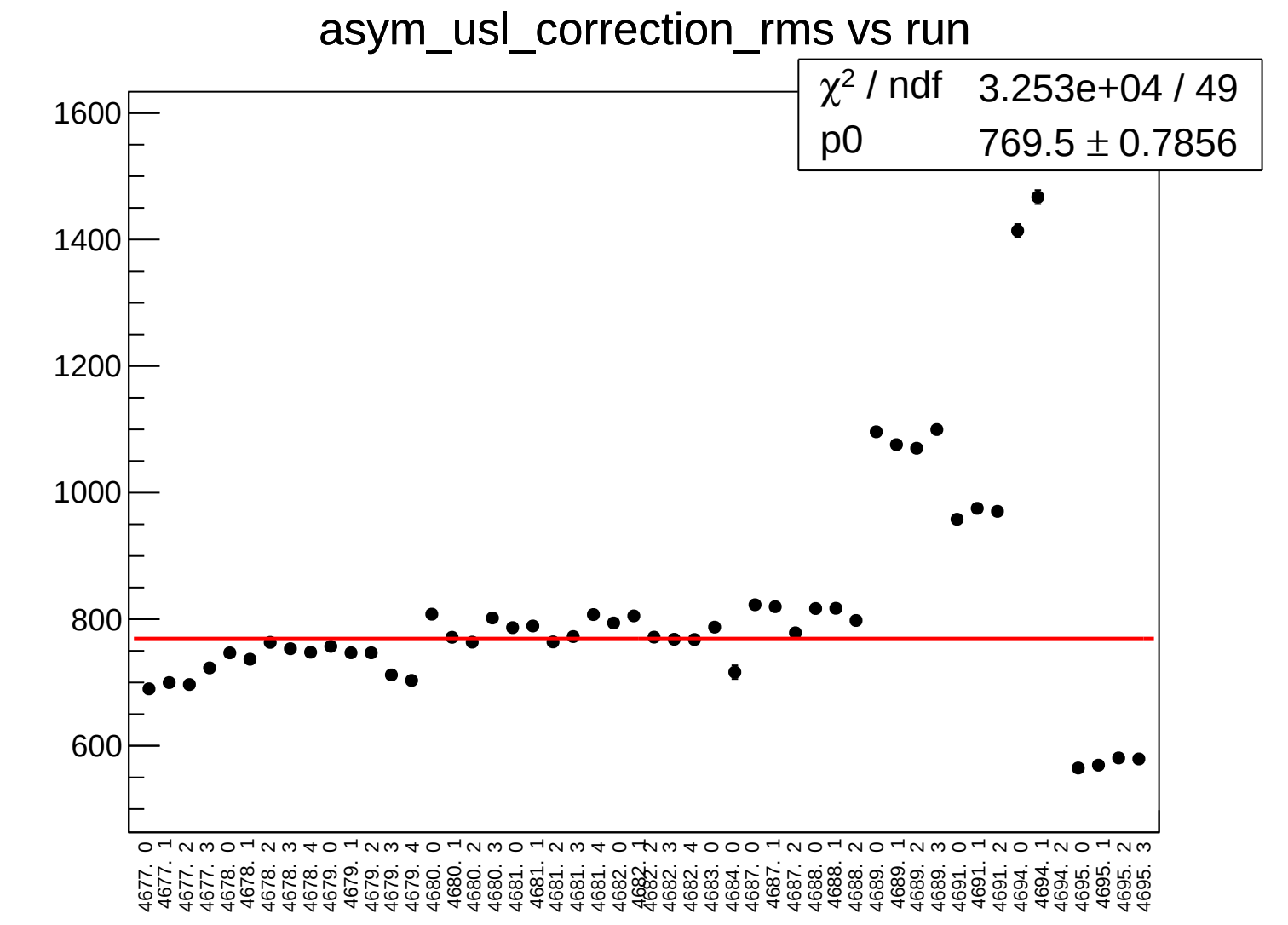
4695. 2
4695. 3


asym_usl_correction_mean vs run
χ² / ndf 63.05 / 49
p0 −914.2 ± 1111
40000
20000
0
−20000
−40000
−60000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 149.4
Std Dev 127.2
2
1
0
−1
−2
−3
pull1D
Entries 50
Mean 0.01867
Std Dev 1.123
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_correction_rms vs run
χ² / ndf 3.253e+04 / 49
p0 769.5 ± 0.7856
1600
1400
1200
1000
800
600
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
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4681. 3
4681. 4
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4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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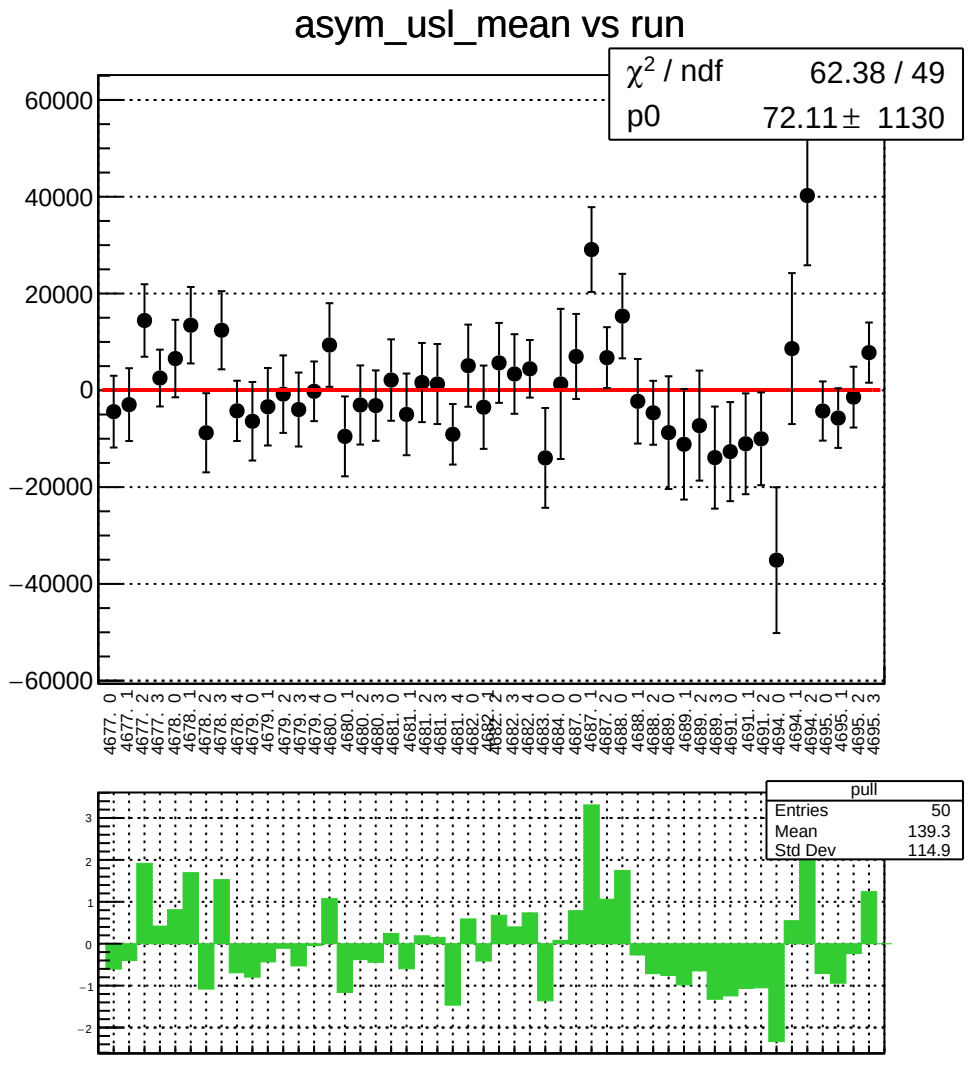
4695. 3


asym_usl_mean vs run
χ² / ndf 62.38 / 49
p0 72.11 ± 1130
60000
40000
20000
0
−20000
−40000
−60000
4677. 0
4677. 1
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4677. 3
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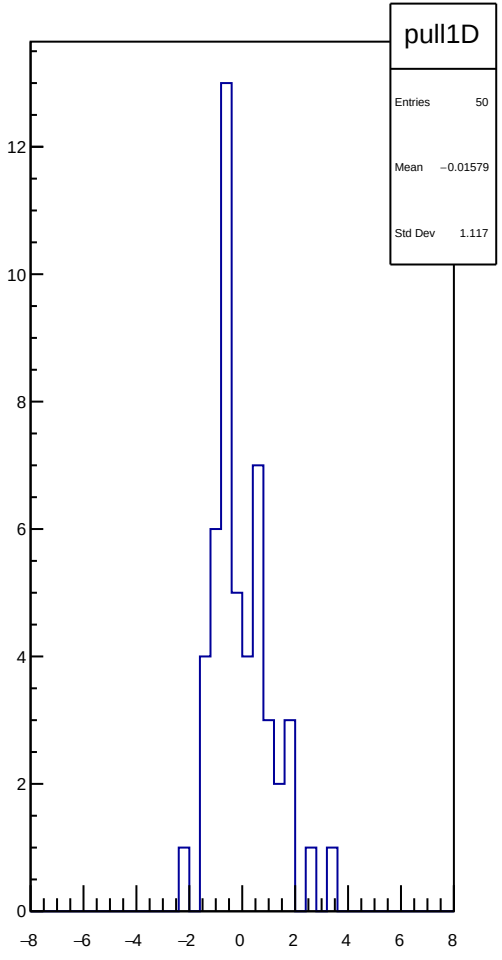
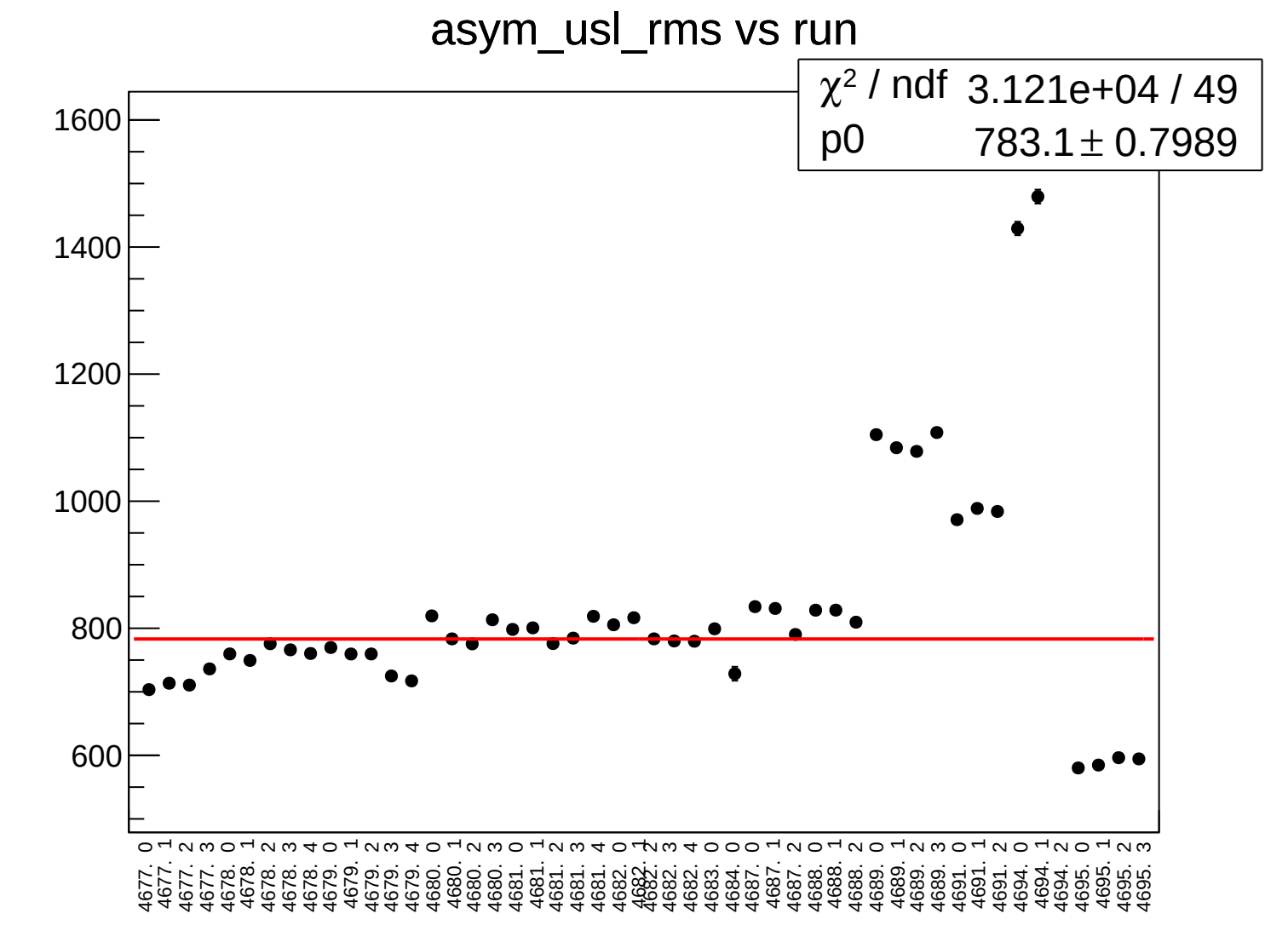
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 139.3
Std Dev 114.9
3
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.01579
Std Dev 1.117
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_rms vs run
χ² / ndf 3.121e+04 / 49
p0 783.1 ± 0.7989
1600
1400
1200
1000
800
600
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
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4688. 1
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4689. 1
4689. 2
4689. 3
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4694. 0
4694. 1
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4695. 0
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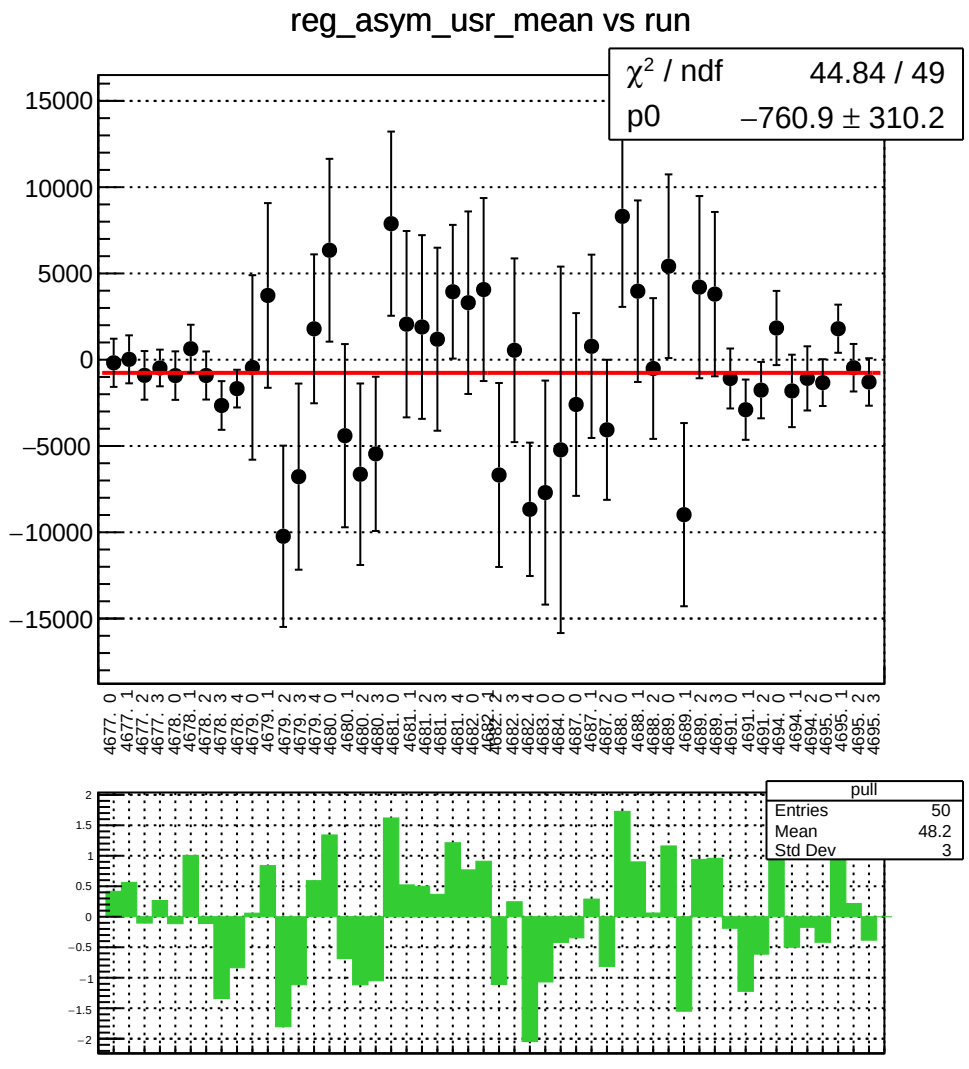
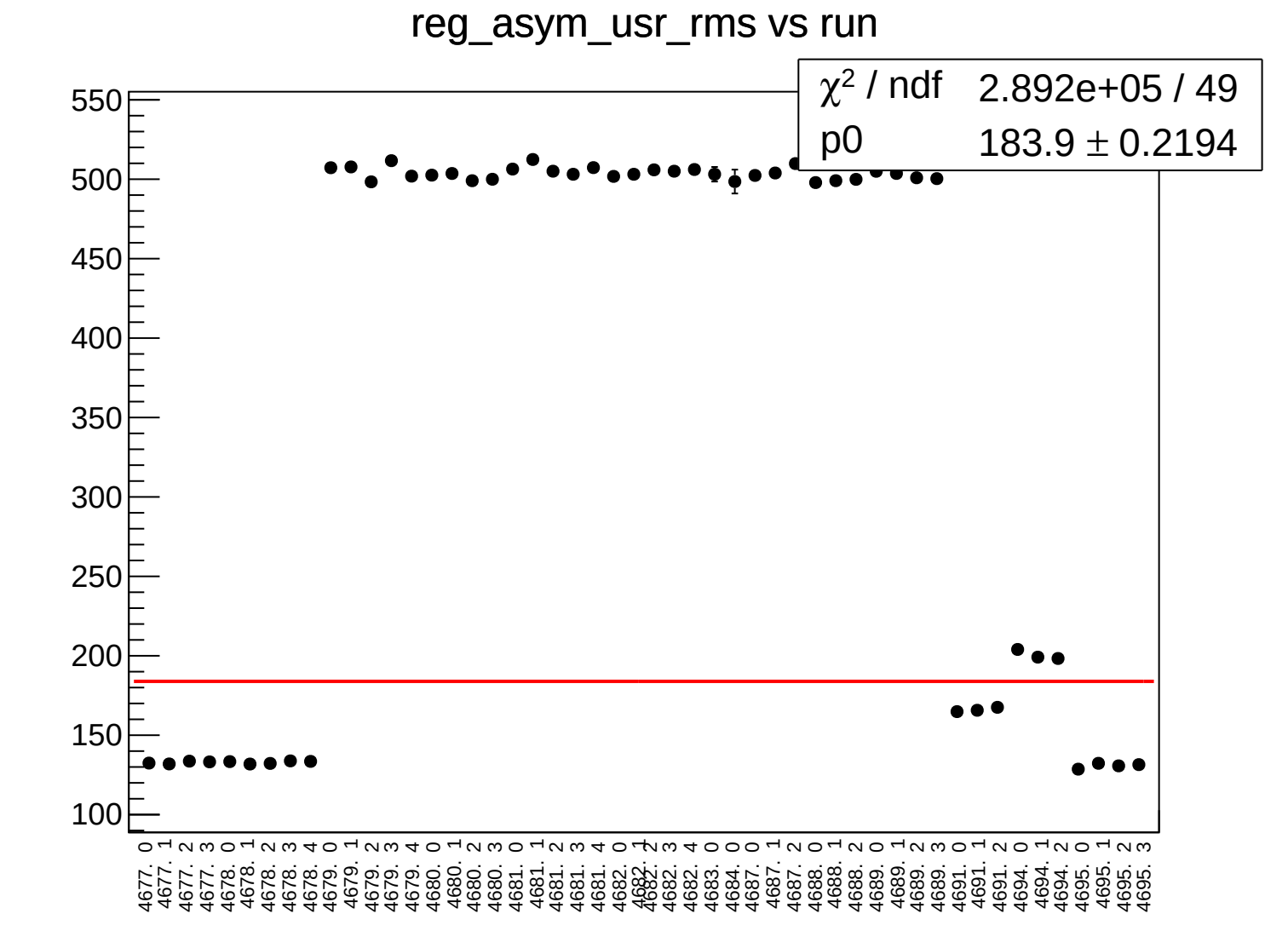
4695. 3


reg_asym_usr_mean vs run
χ² / ndf 44.84 / 49
p0 −760.9 ± 310.2
15000
10000
5000
0
−5000
−10000
−15000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 48.2
Std Dev 3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean 0.02795
Std Dev 0.9466
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_rms vs run
χ² / ndf 2.892e+05 / 49
p0 183.9 ± 0.2194
550
500
450
400
350
300
250
200
150
100
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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4691. 2
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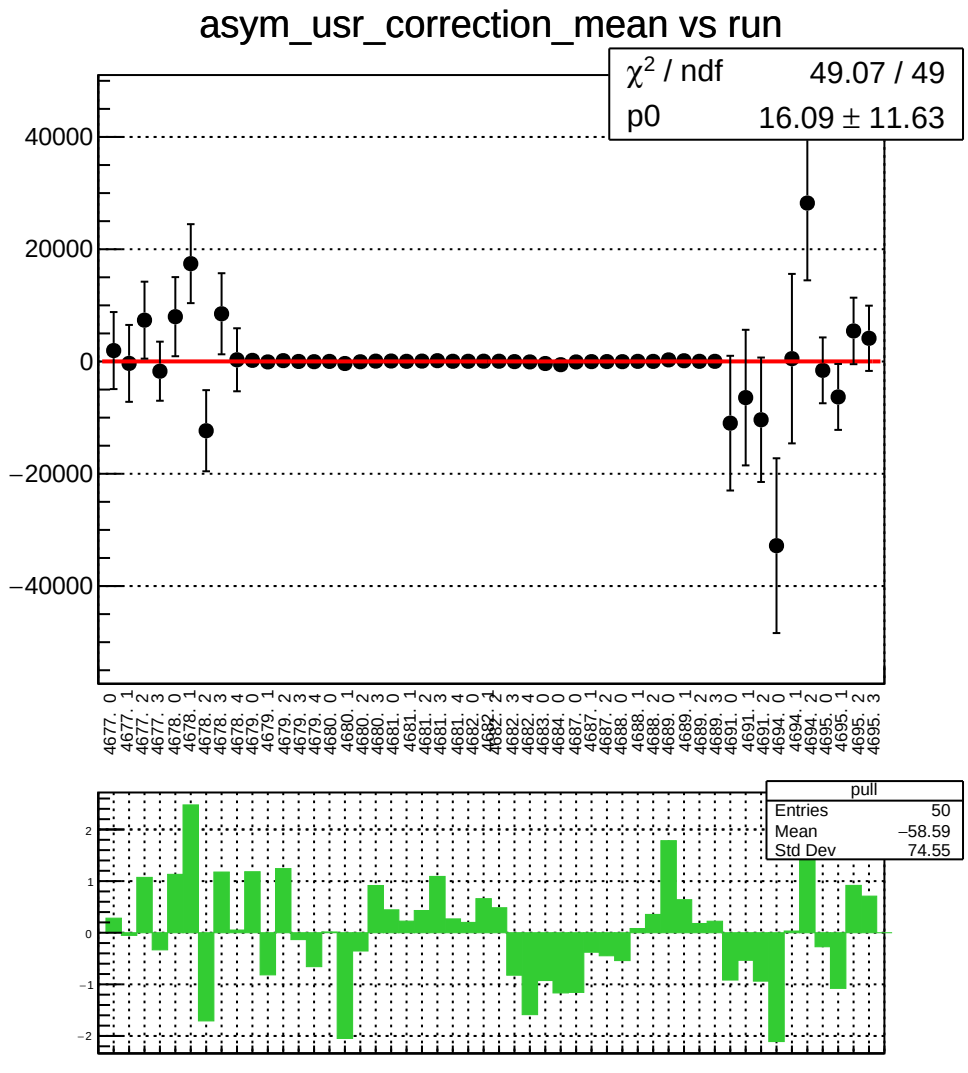
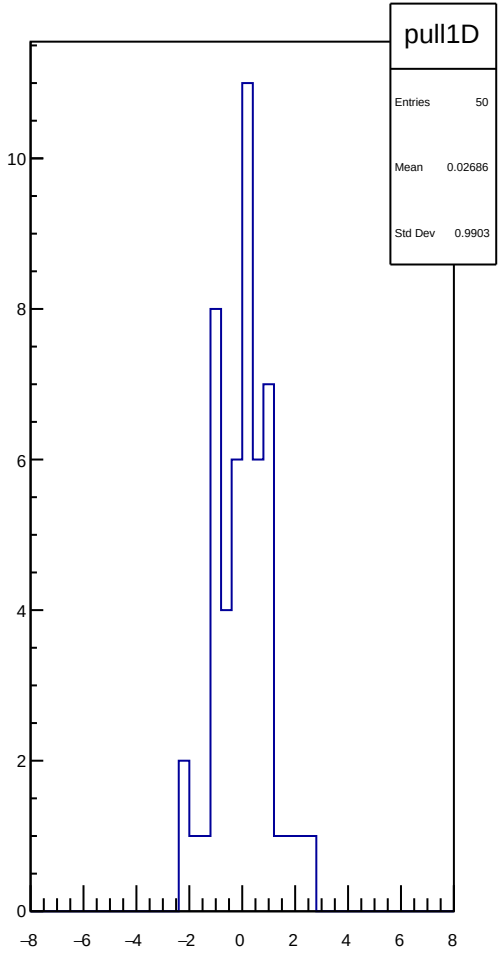
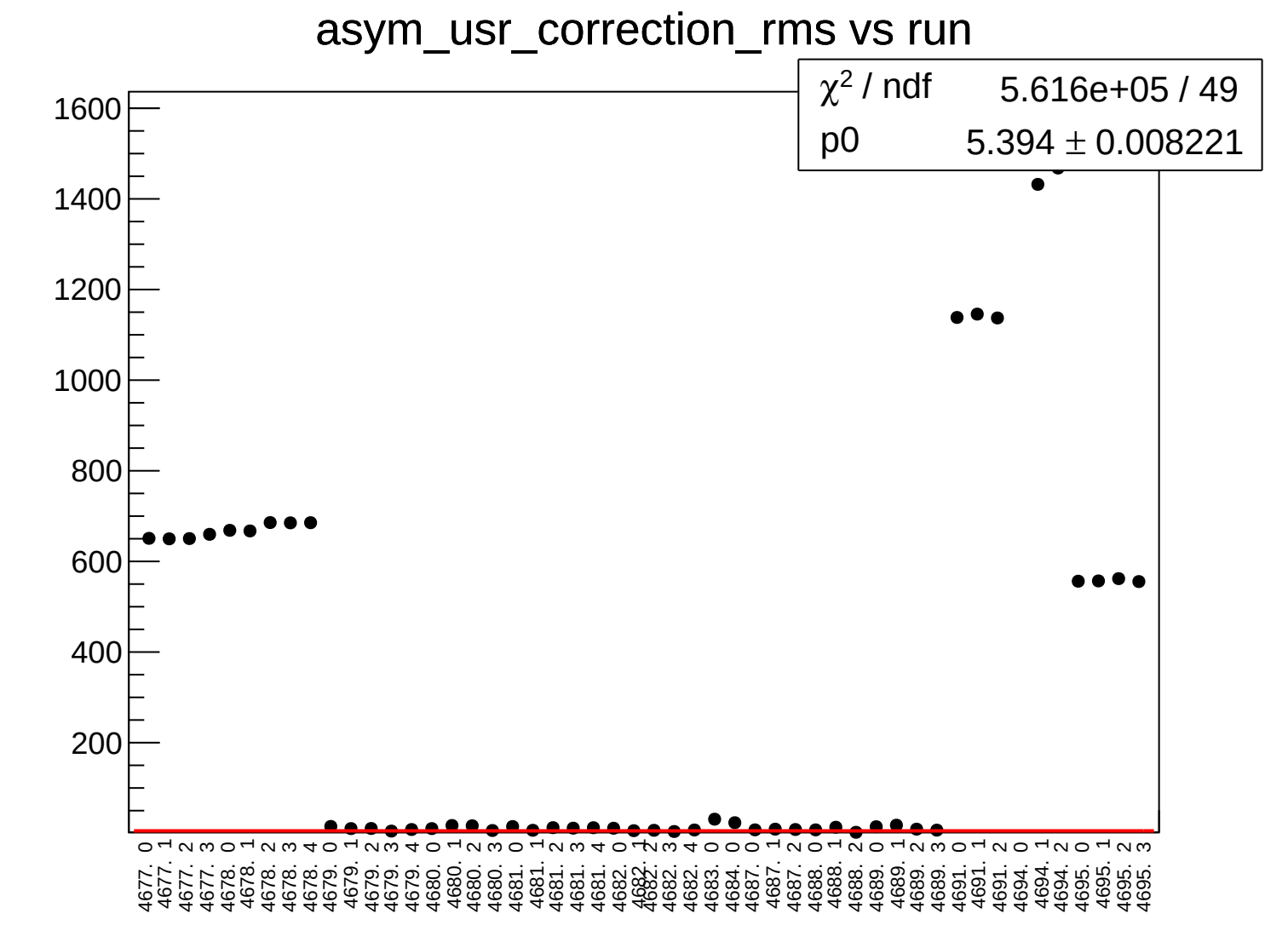
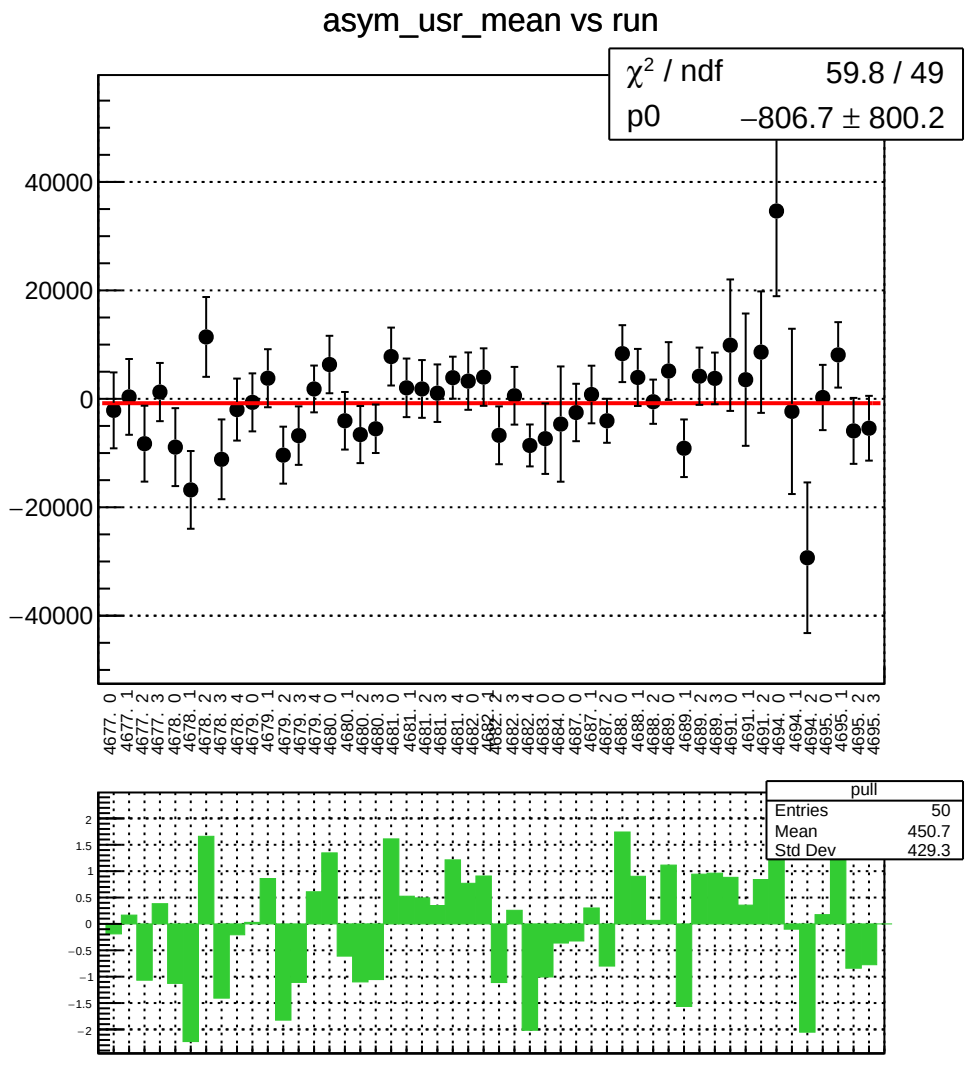
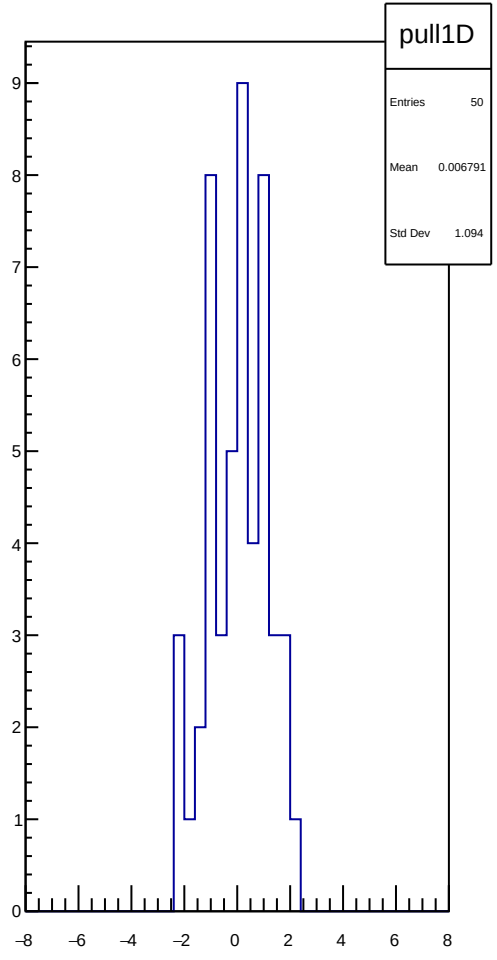
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

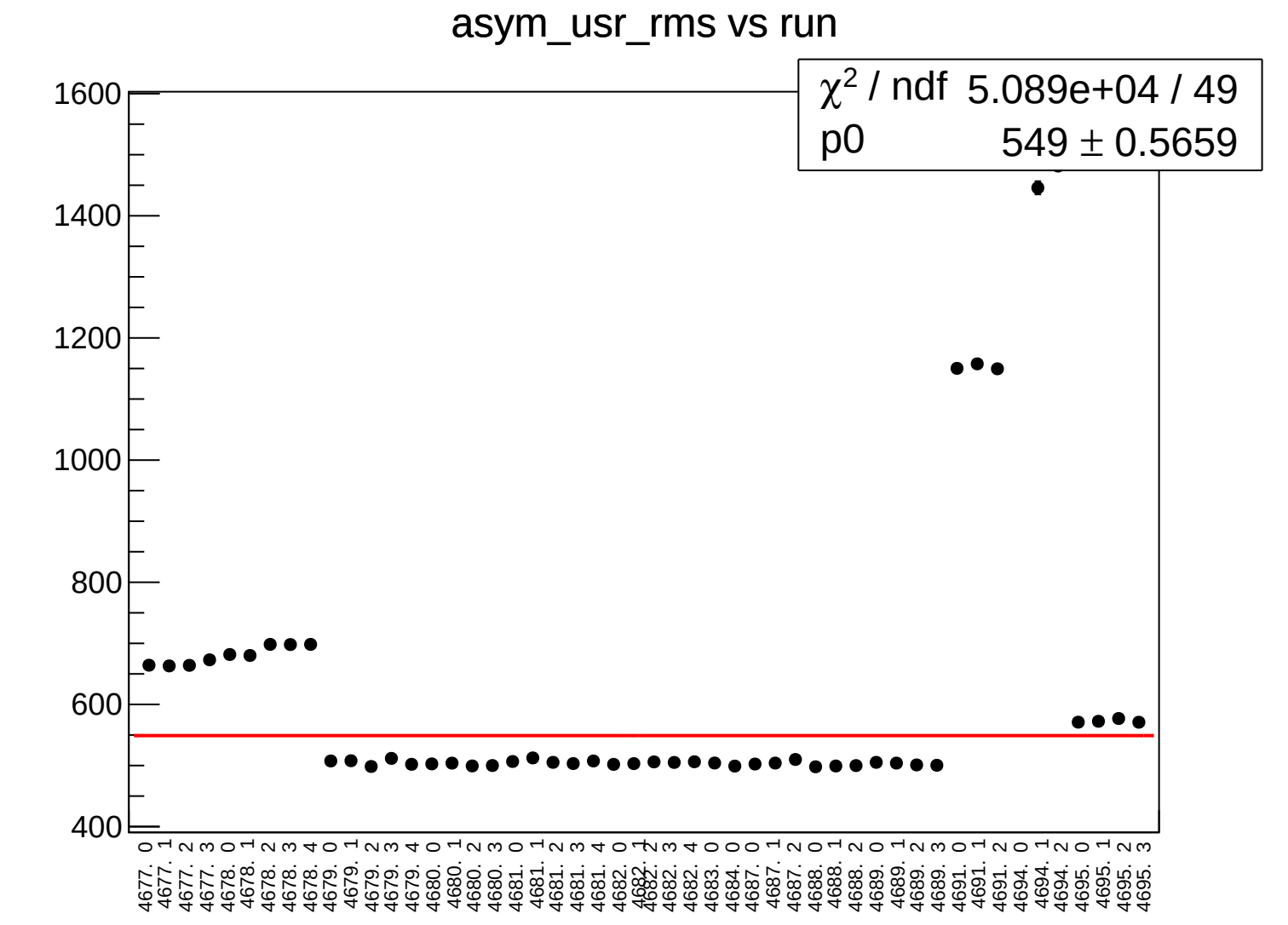

asym_usr_correction_mean vs run
χ² / ndf 49.07 / 49
p0 16.09 ± 11.63
40000
20000
0
−20000
−40000
pull
Entries 50
Mean −58.59
Std Dev 74.55
2
1
0
−1
−2

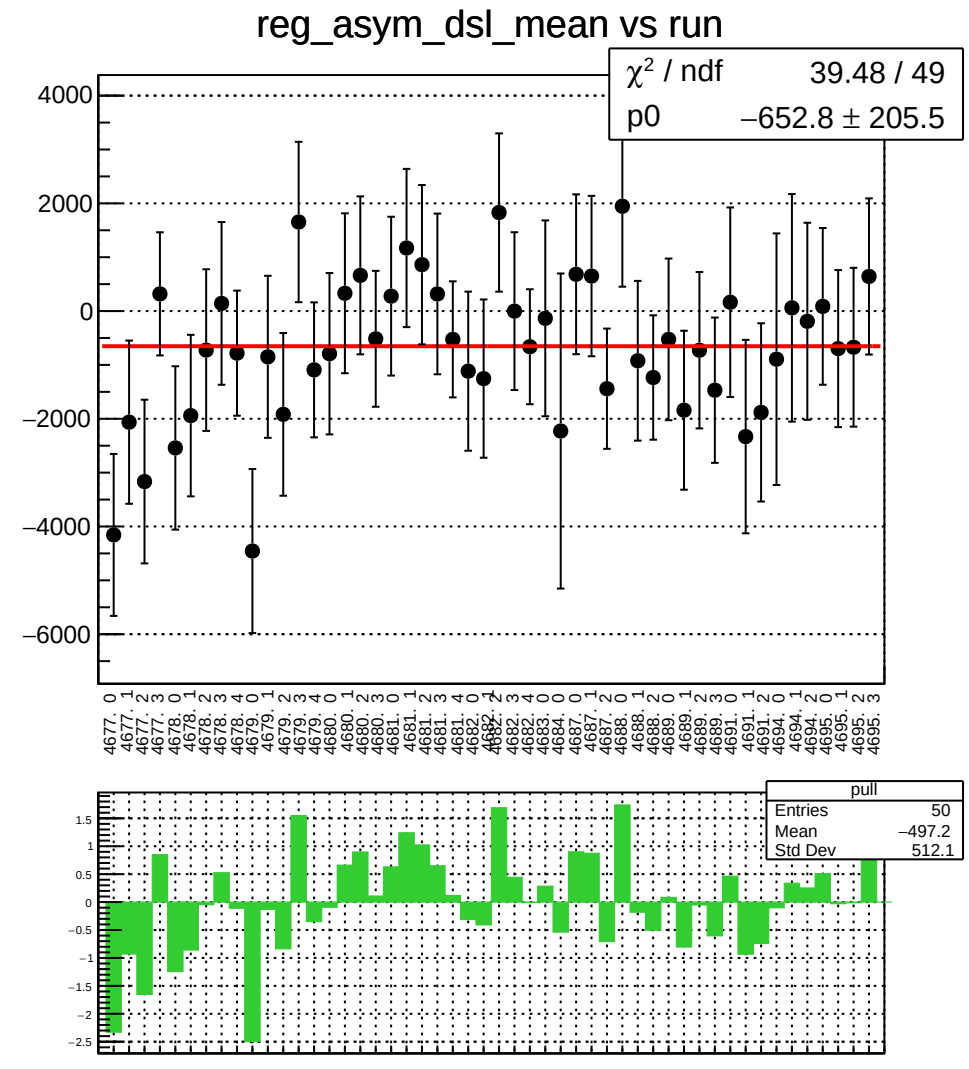

pull1D
Entries 50
Mean 0.02686
Std Dev 0.9903
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

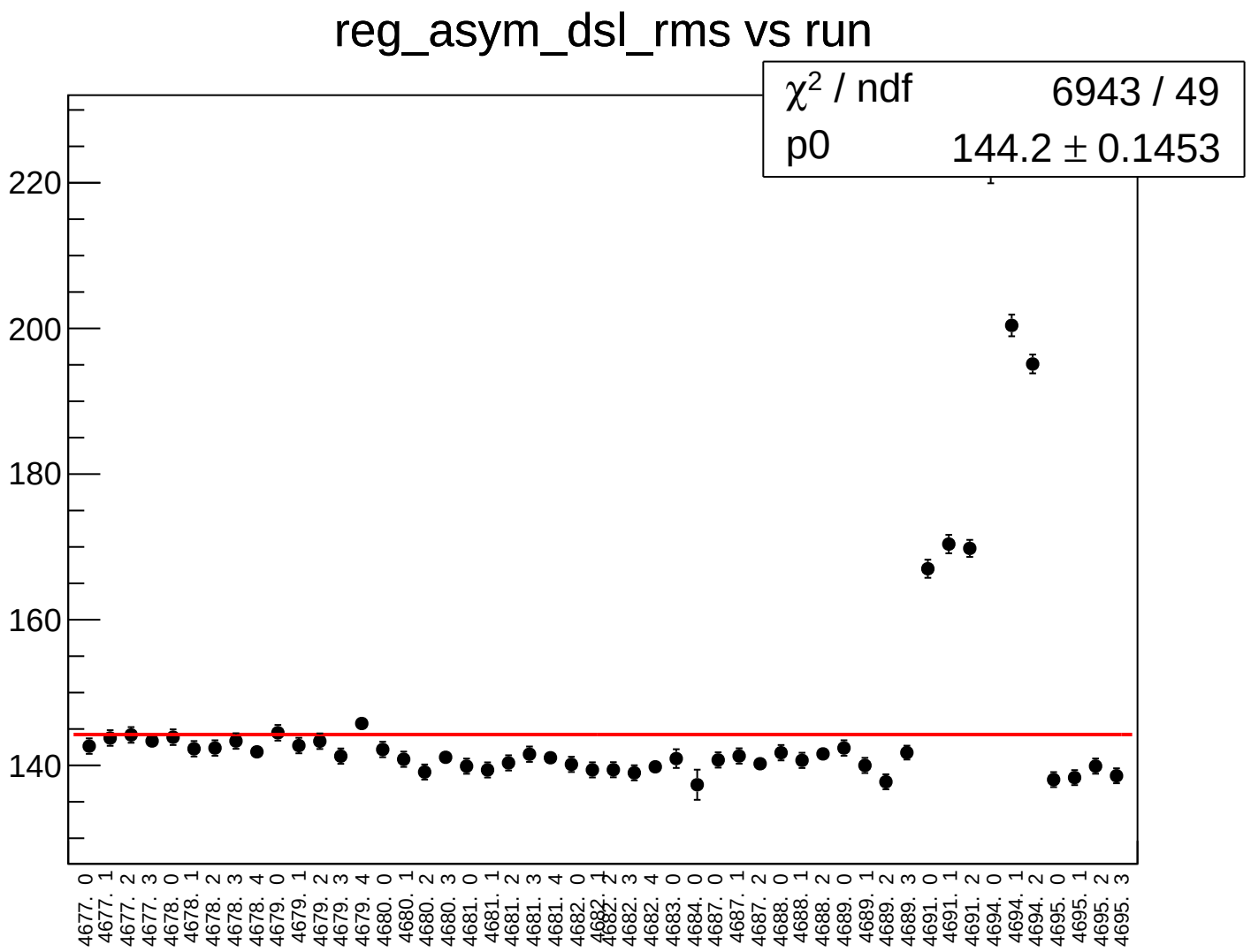

asym_usr_correction_rms vs run
χ² / ndf 5.616e+05 / 49
p0 5.394 ± 0.008221
1600
1400
1200
1000
800
600
400
200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_usr_mean vs run
χ² / ndf 59.8 / 49
p0 −806.7 ± 800.2
40000
20000
0
−20000
−40000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 450.7
Std Dev 429.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean 0.006791
Std Dev 1.094
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_rms vs run
χ² / ndf 5.089e+04 / 49
p0 549 ± 0.5659
1600
1400
1200
1000
800
600
400
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


reg_asym_dsl_mean vs run
χ² / ndf 39.48 / 49
p0 −652.8 ± 205.5
4000
2000
0
−2000
−4000
−6000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean −497.2
Std Dev 512.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 50
Mean −0.005904
Std Dev 0.8886
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsl_rms vs run
χ² / ndf 6943 / 49
p0 144.2 ± 0.1453
220
200
180
160
140
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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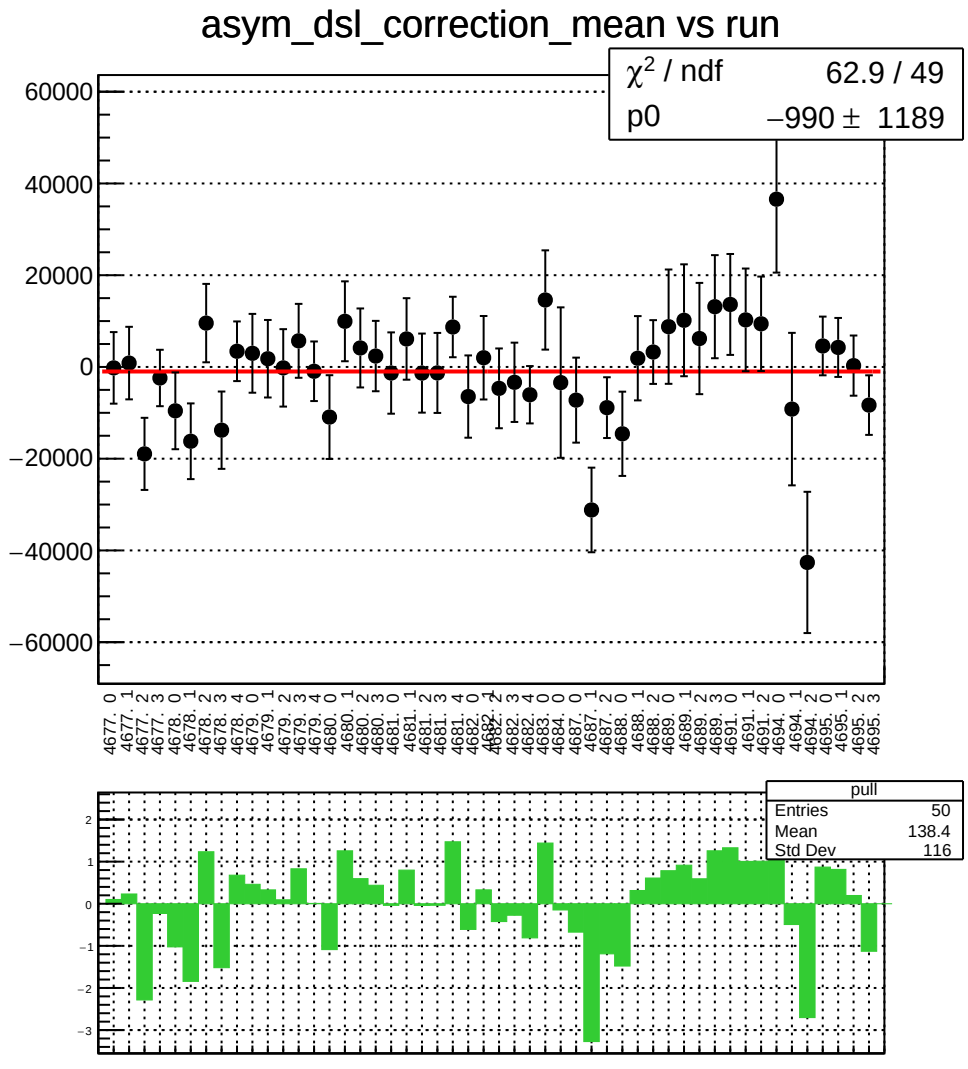
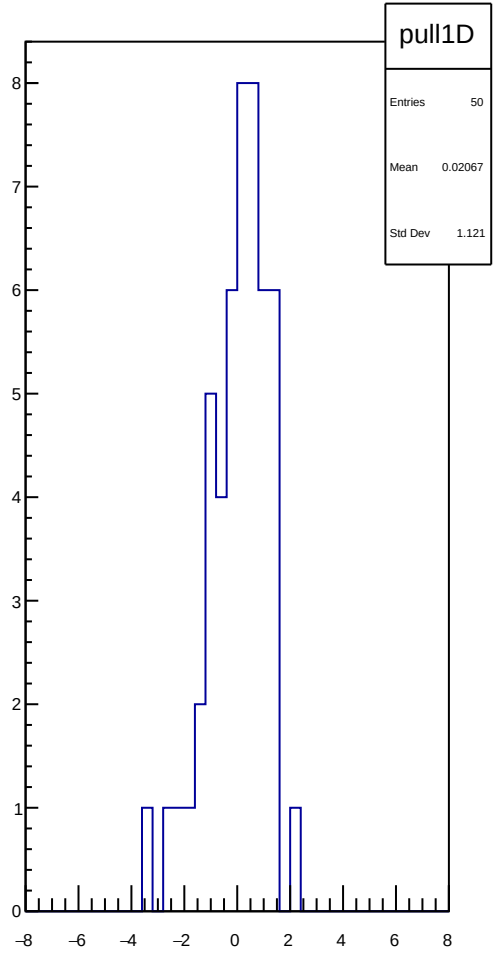
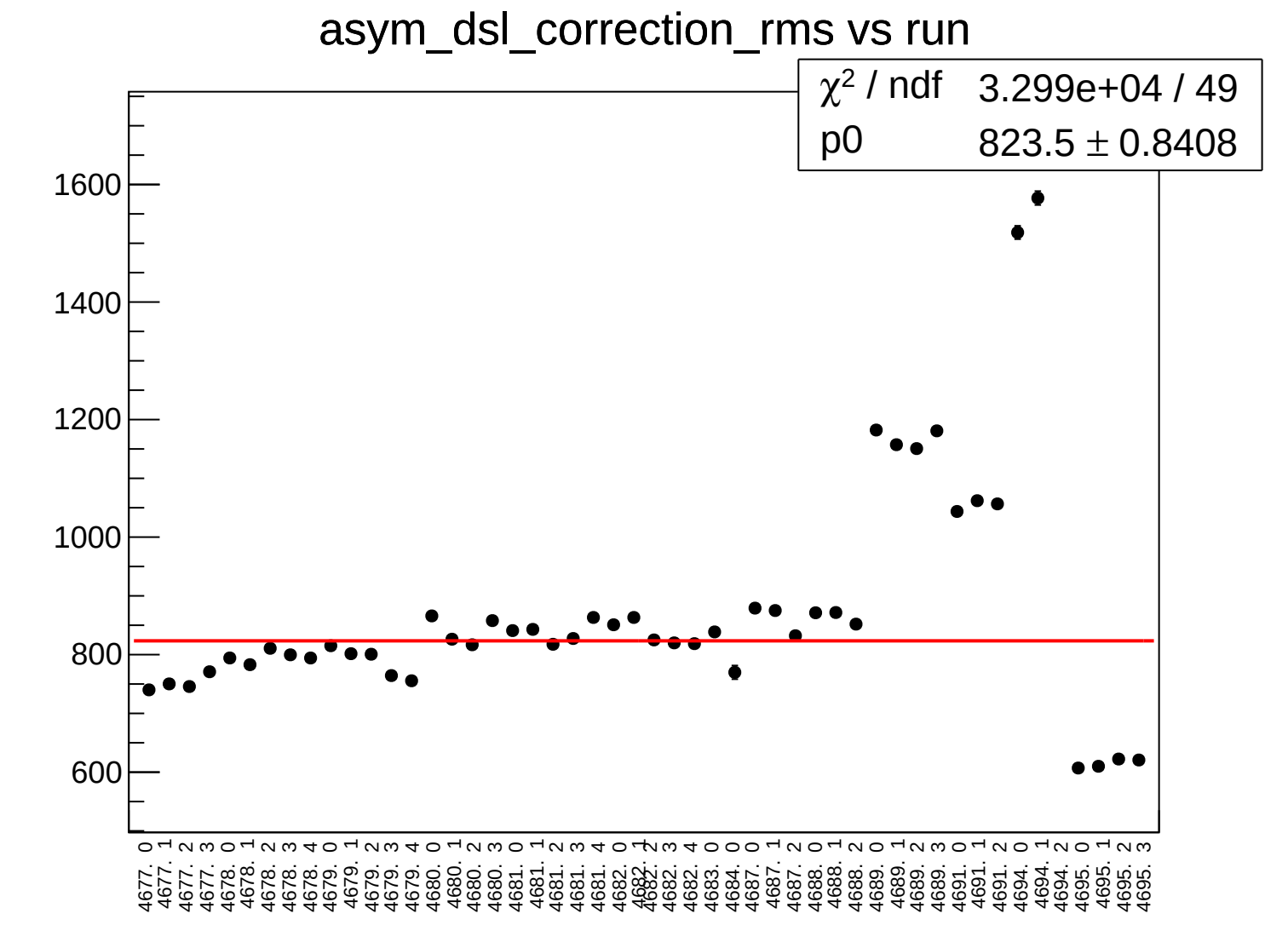
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_dsl_correction_mean vs run
χ² / ndf 62.9 / 49
p0 −990 ± 1189
pull
Entries 50
Mean 138.4
Std Dev 116


pull1D
Entries 50
Mean 0.02067
Std Dev 1.121


asym_dsl_correction_rms vs run
χ² / ndf 3.299e+04 / 49
p0 823.5 ± 0.8408
1600
1400
1200
1000
800
600
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4691. 2
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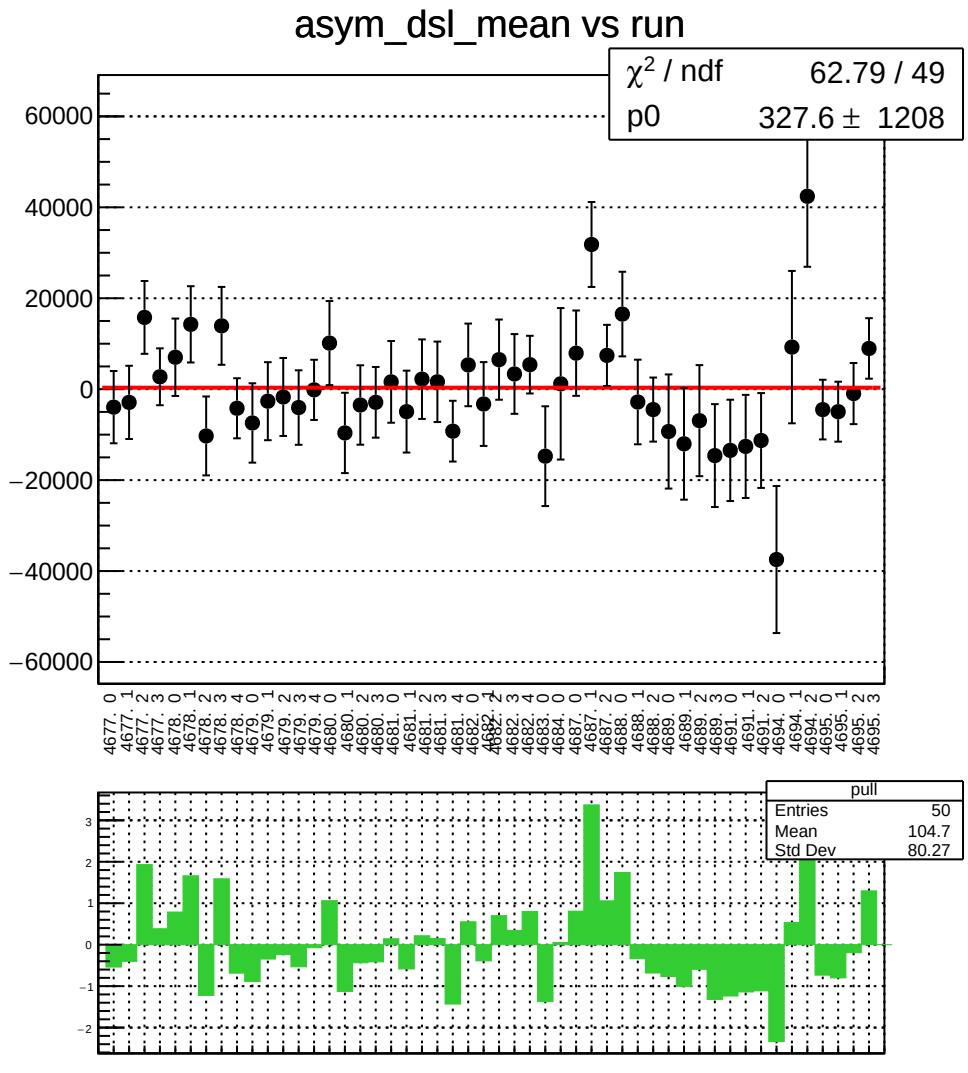
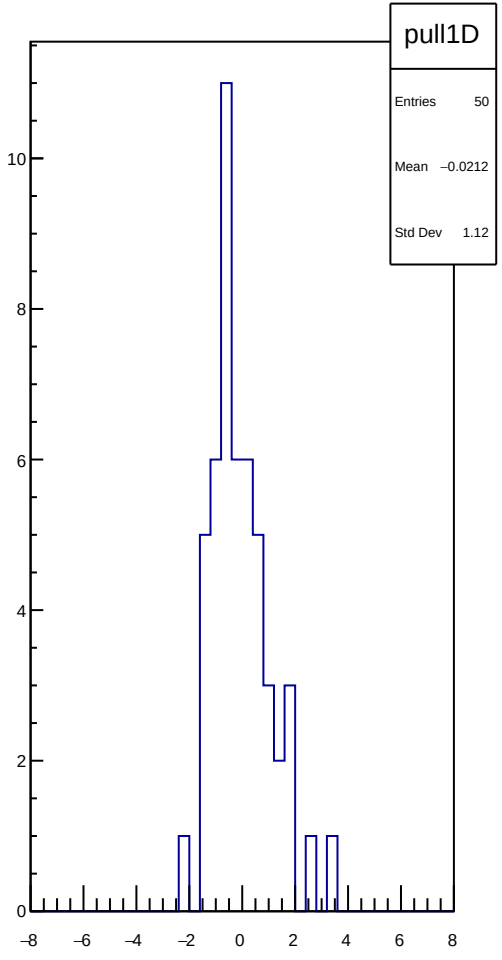
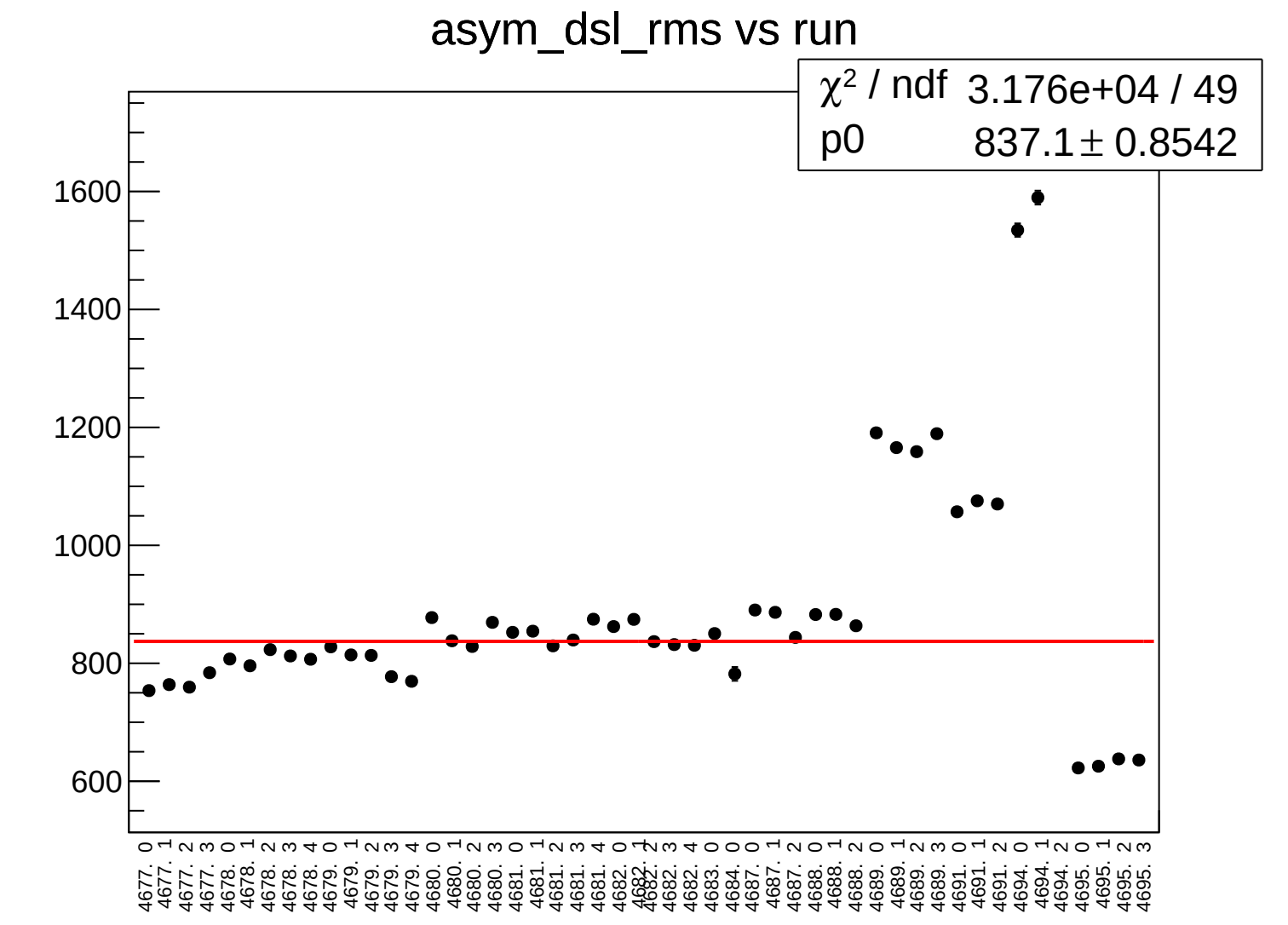
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_dsl_mean vs run
χ² / ndf 62.79 / 49
p0 327.6 ± 1208
60000
40000
20000
0
−20000
−40000
−60000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 104.7
Std Dev 80.27
3
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.0212
Std Dev 1.12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_dsl_rms vs run
χ² / ndf 3.176e+04 / 49
p0 837.1 ± 0.8542
1600
1400
1200
1000
800
600
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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4691. 2
4694. 0
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4694. 2
4695. 0
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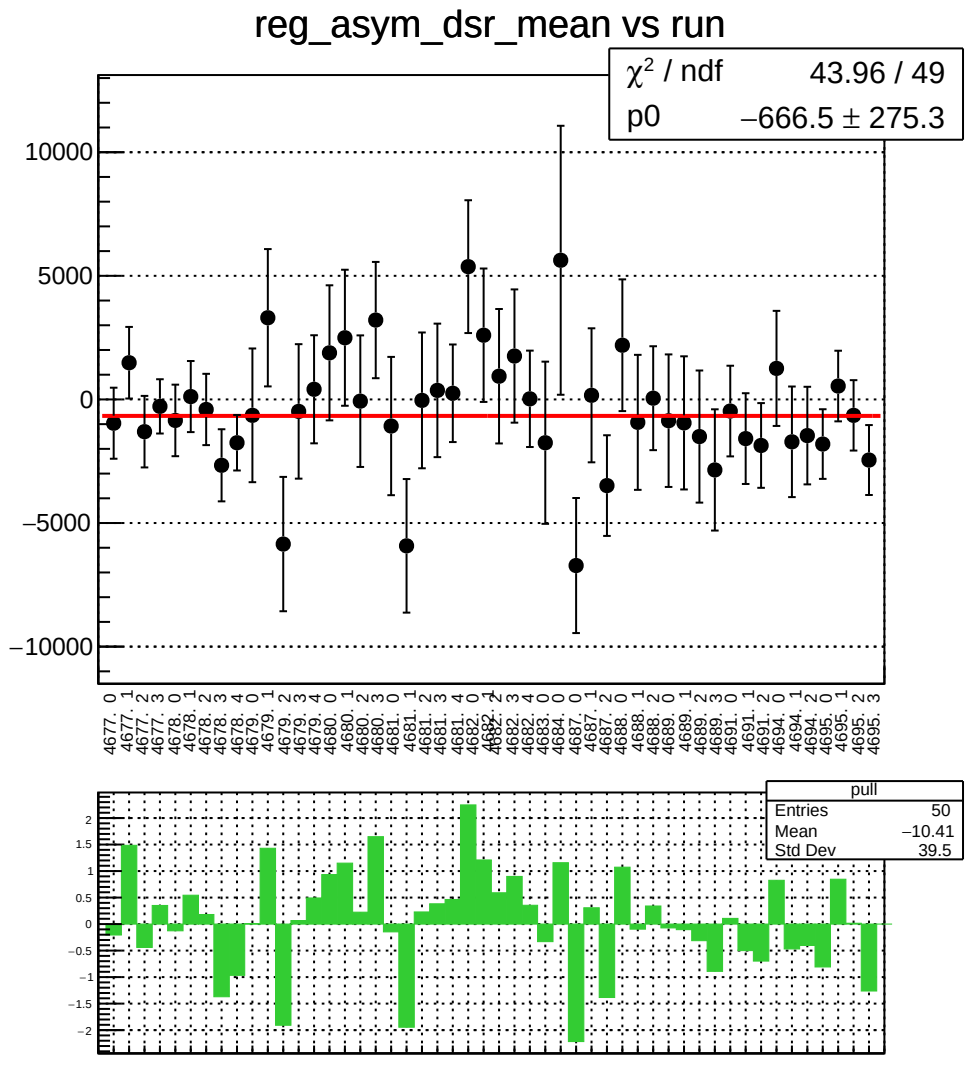
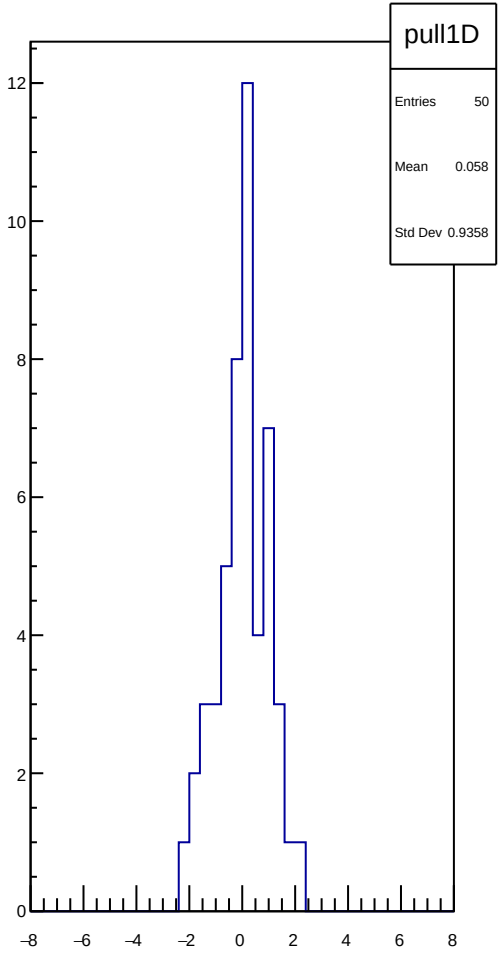
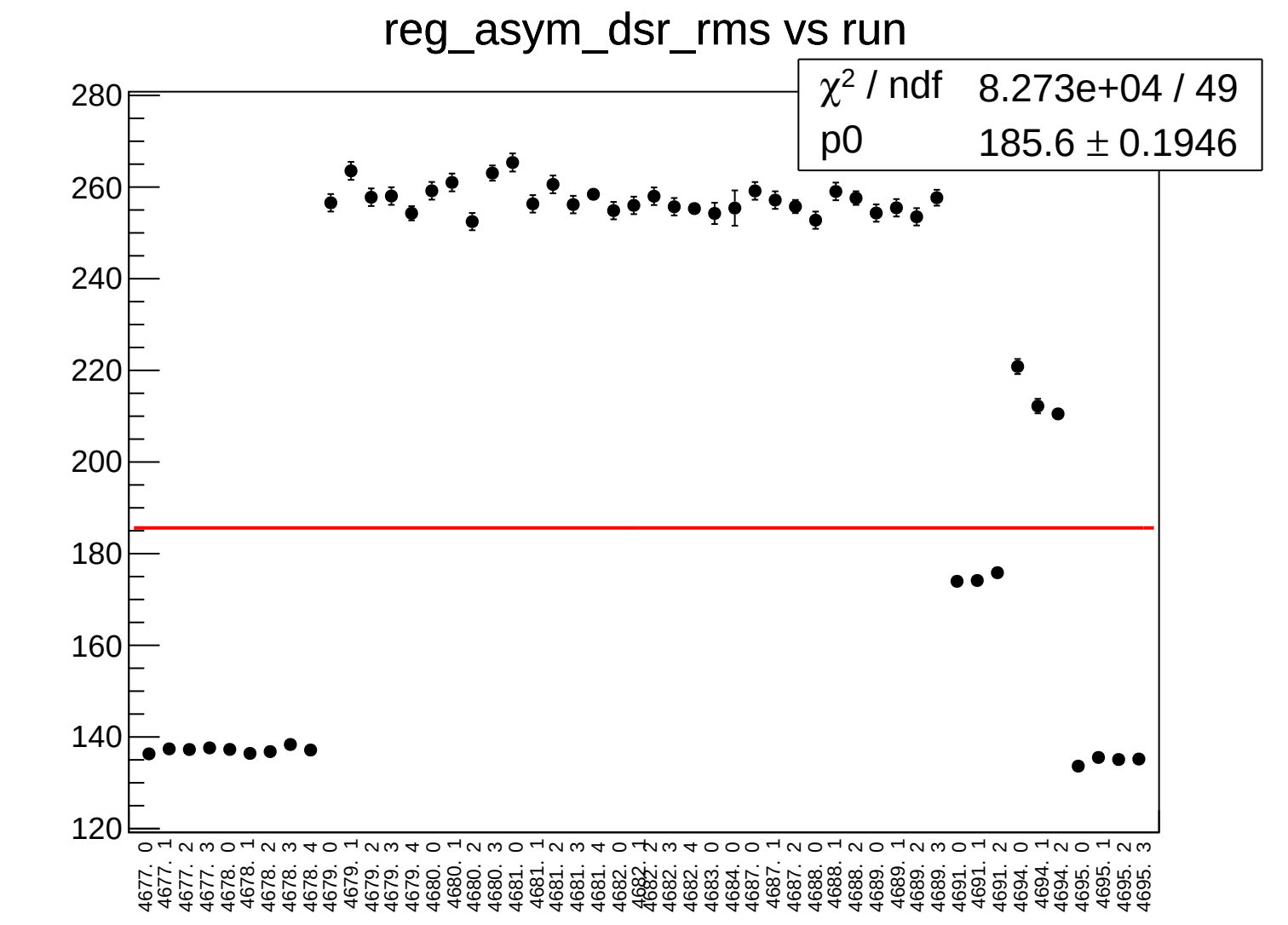
4695. 2
4695. 3


reg_asym_dsr_mean vs run
χ² / ndf 43.96 / 49
p0 −666.5 ± 275.3
10000
5000
0
−5000
−10000
pull
Entries 50
Mean −10.41
Std Dev 39.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean 0.058
Std Dev 0.9358
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsr_rms vs run
χ² / ndf 8.273e+04 / 49
p0 185.6 ± 0.1946
280
260
240
220
200
180
160
140
120
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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4691. 2
4694. 0
4694. 1
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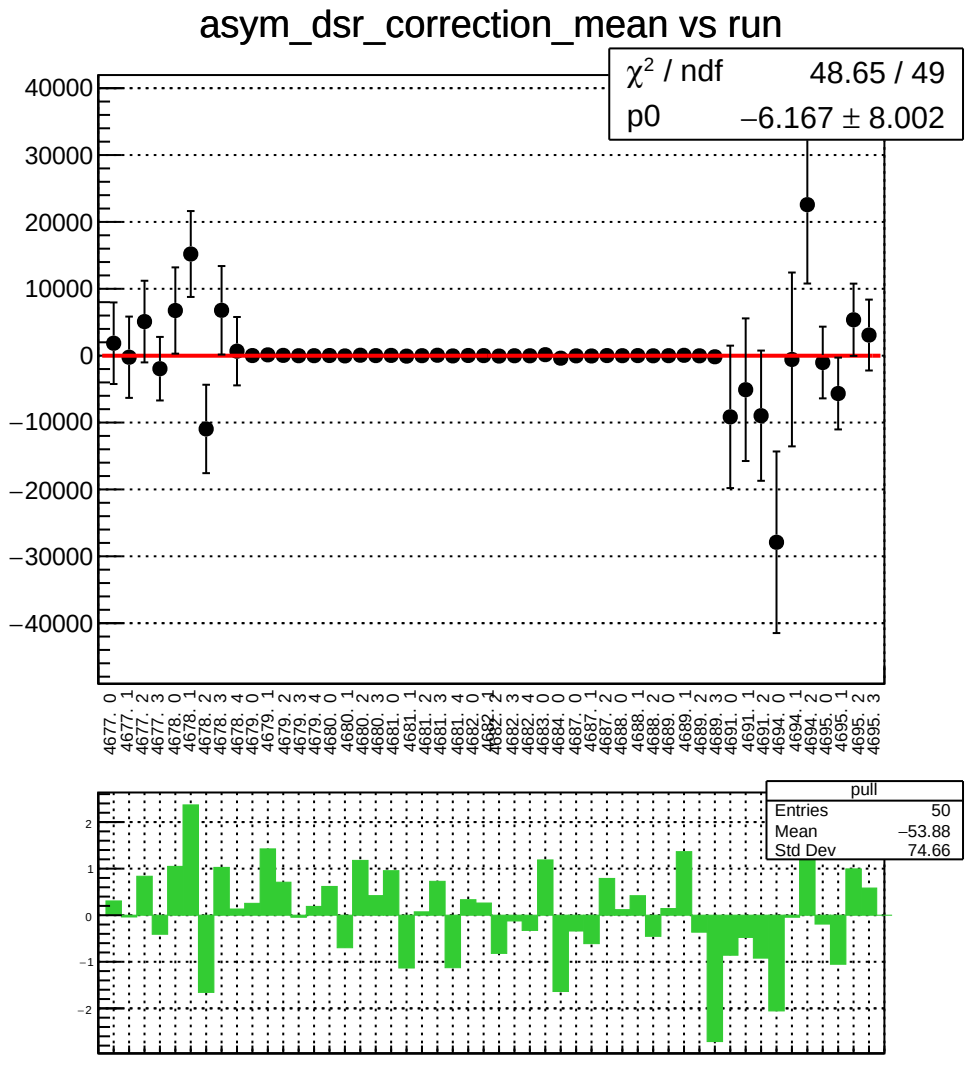
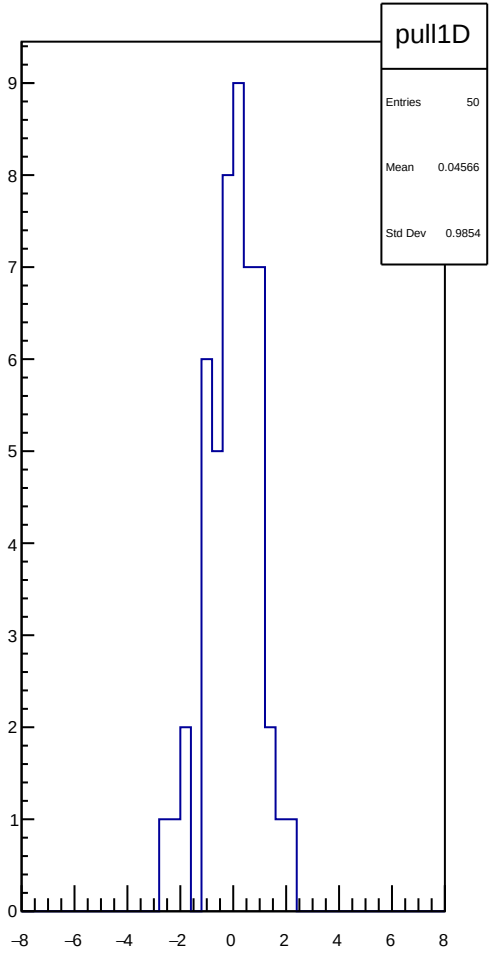
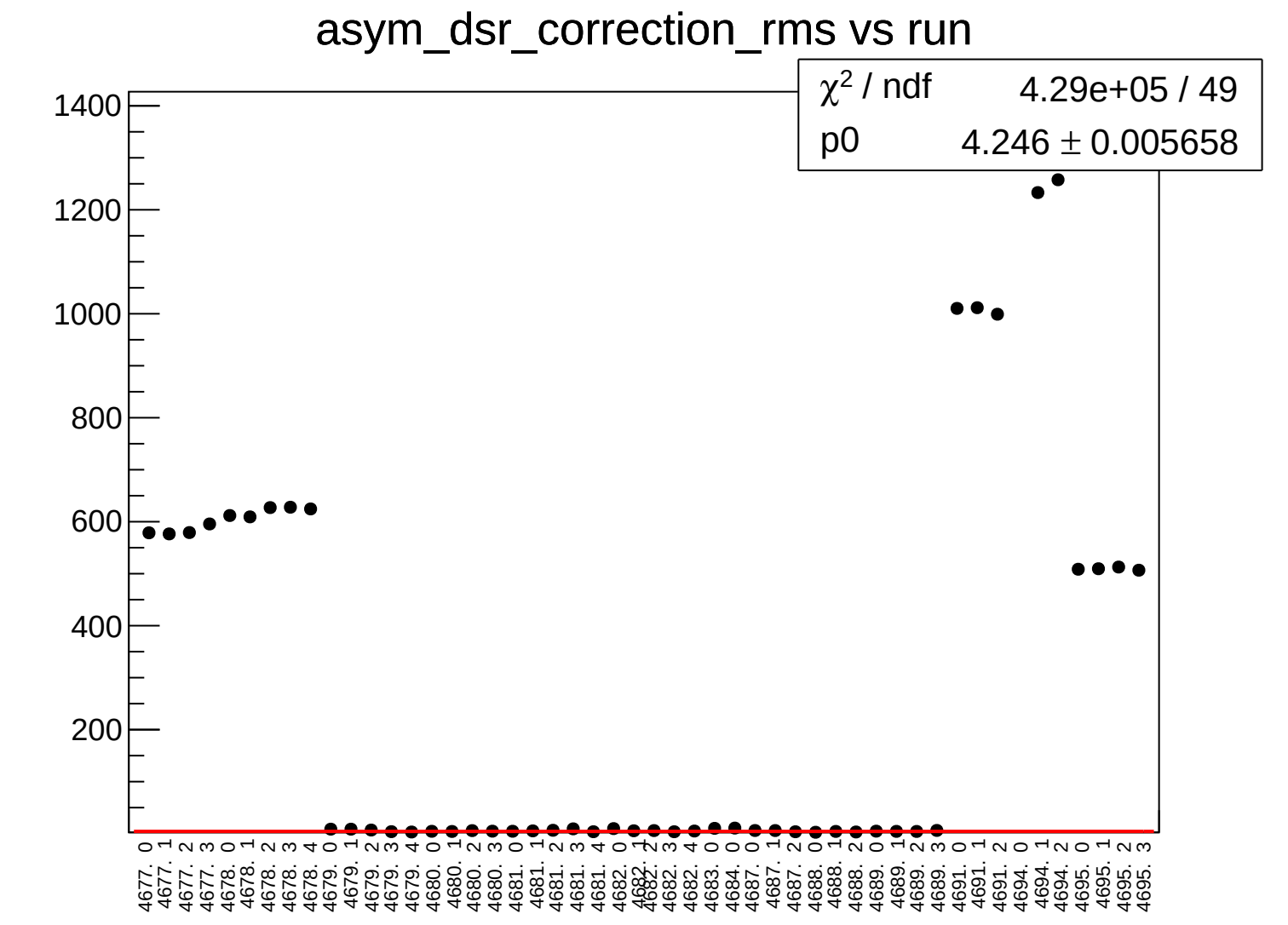
4695. 3


asym_dsr_correction_mean vs run
χ² / ndf 48.65 / 49
p0 −6.167 ± 8.002
pull
Entries 50
Mean −53.88
Std Dev 74.66


pull1D
Entries 50
Mean 0.04566
Std Dev 0.9854


asym_dsr_correction_rms vs run
χ² / ndf 4.29e+05 / 49
p0 4.246 ± 0.005658
1400
1200
1000
800
600
400
200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4691. 2
4694. 0
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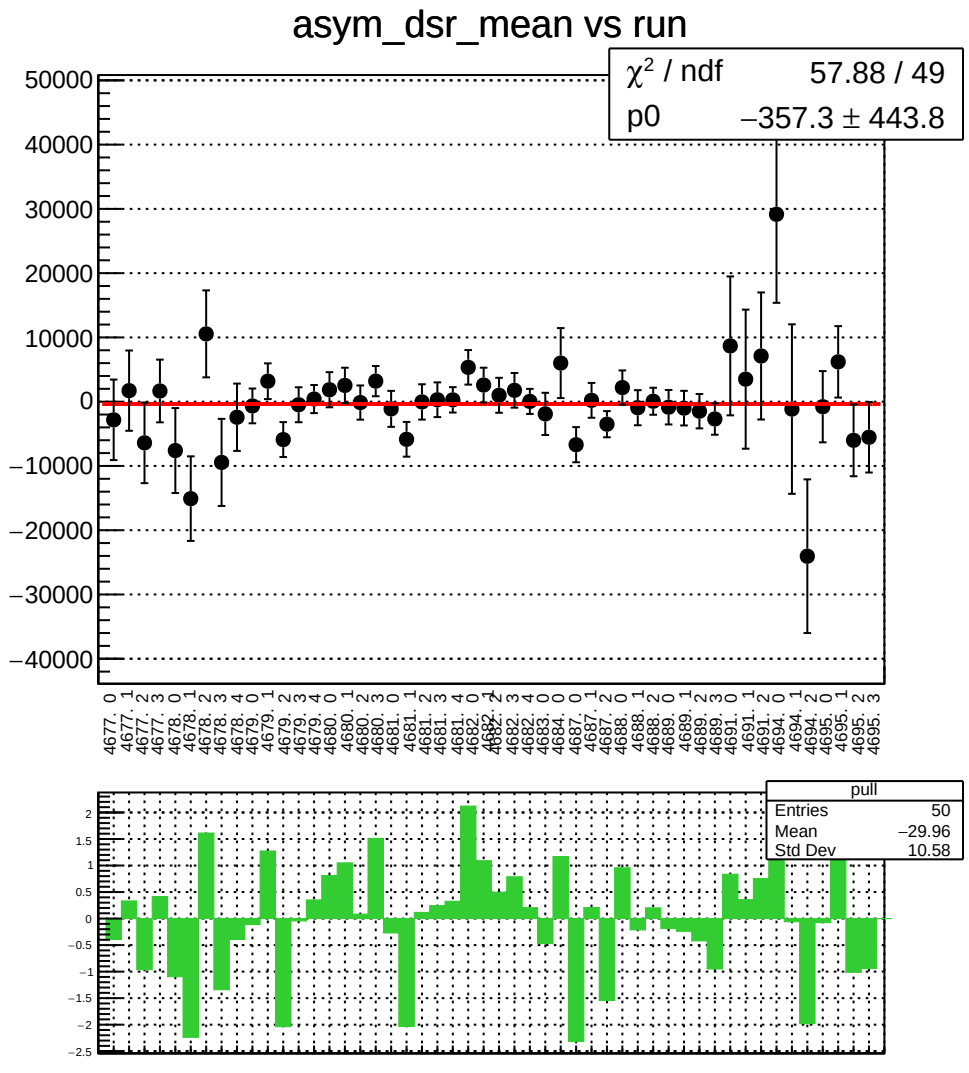
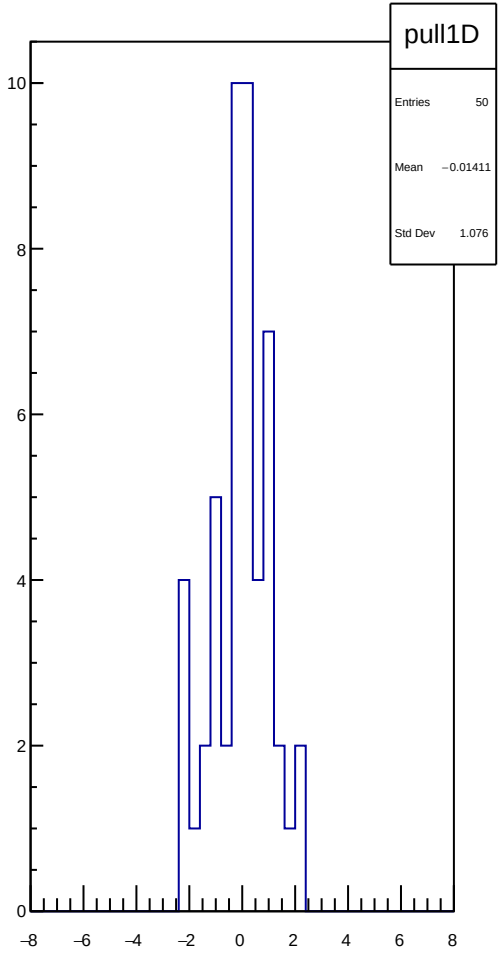
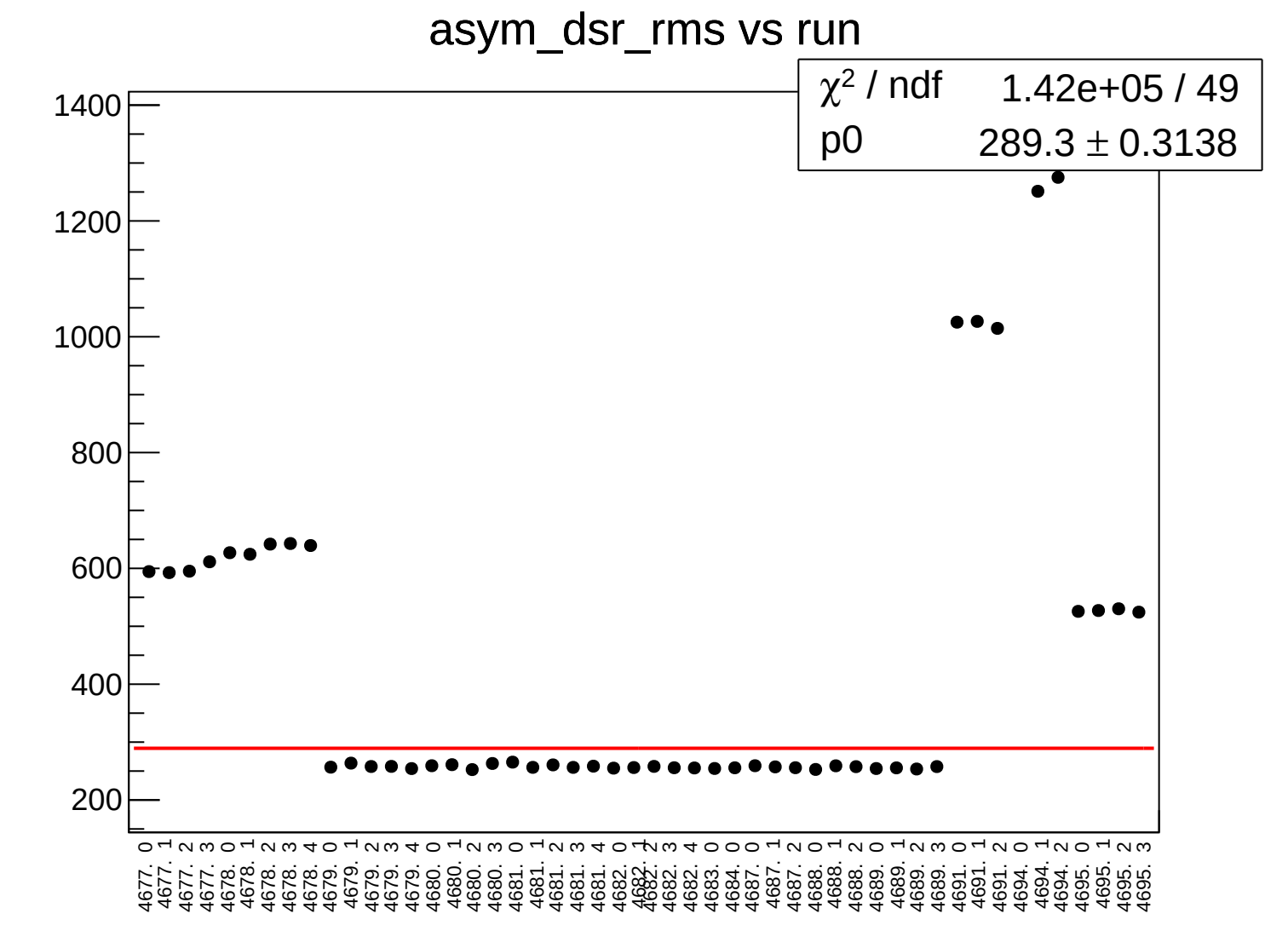
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_dsr_mean vs run
χ² / ndf 57.88 / 49
p0 −357.3 ± 443.8
pull
Entries 50
Mean −29.96
Std Dev 10.58


pull1D
Entries 50
Mean −0.01411
Std Dev 1.076


asym_dsr_rms vs run
χ² / ndf 1.42e+05 / 49
p0 289.3 ± 0.3138
1400
1200
1000
800
600
400
200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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4691. 2
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4694. 1
4694. 2
4695. 0
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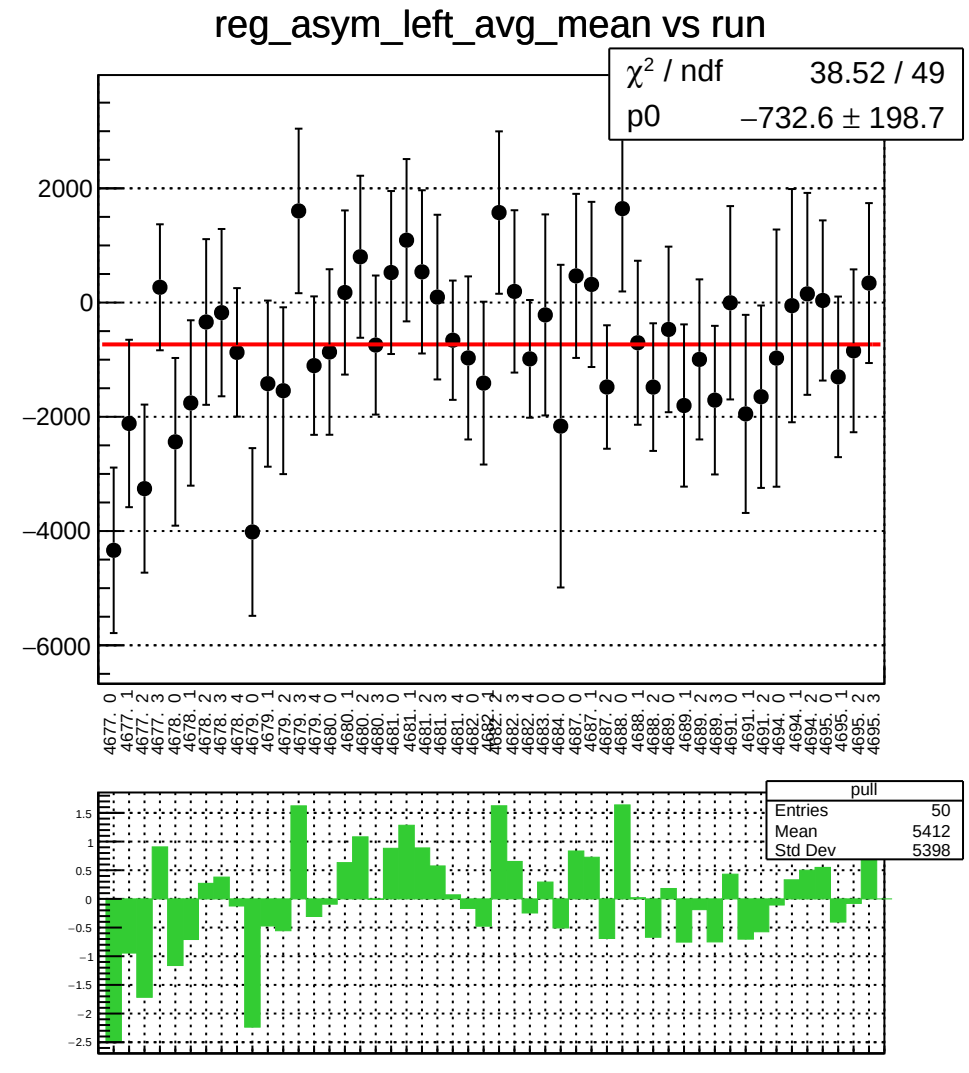
4695. 2
4695. 3


reg_asym_left_avg_mean vs run
χ² / ndf 38.52 / 49
p0 −732.6 ± 198.7
2000
0
−2000
−4000
−6000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
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4680. 2
4680. 3
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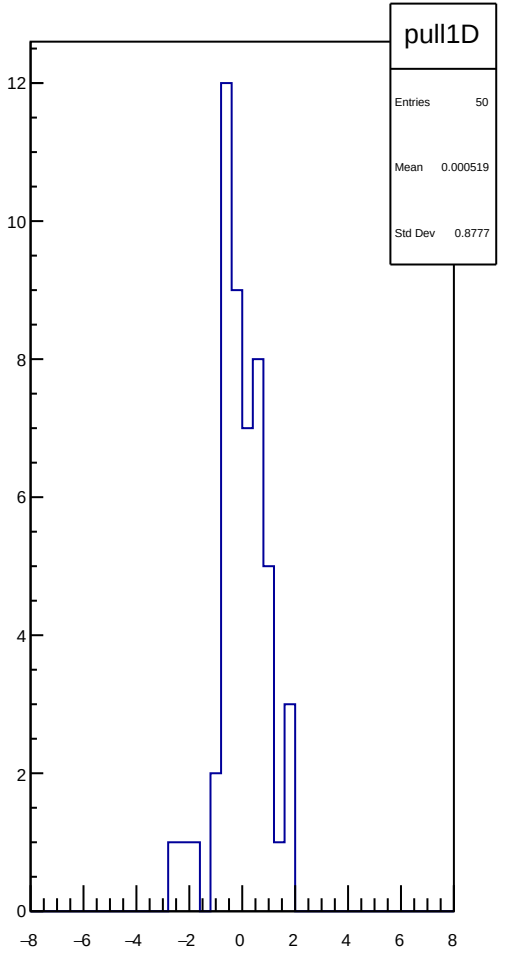
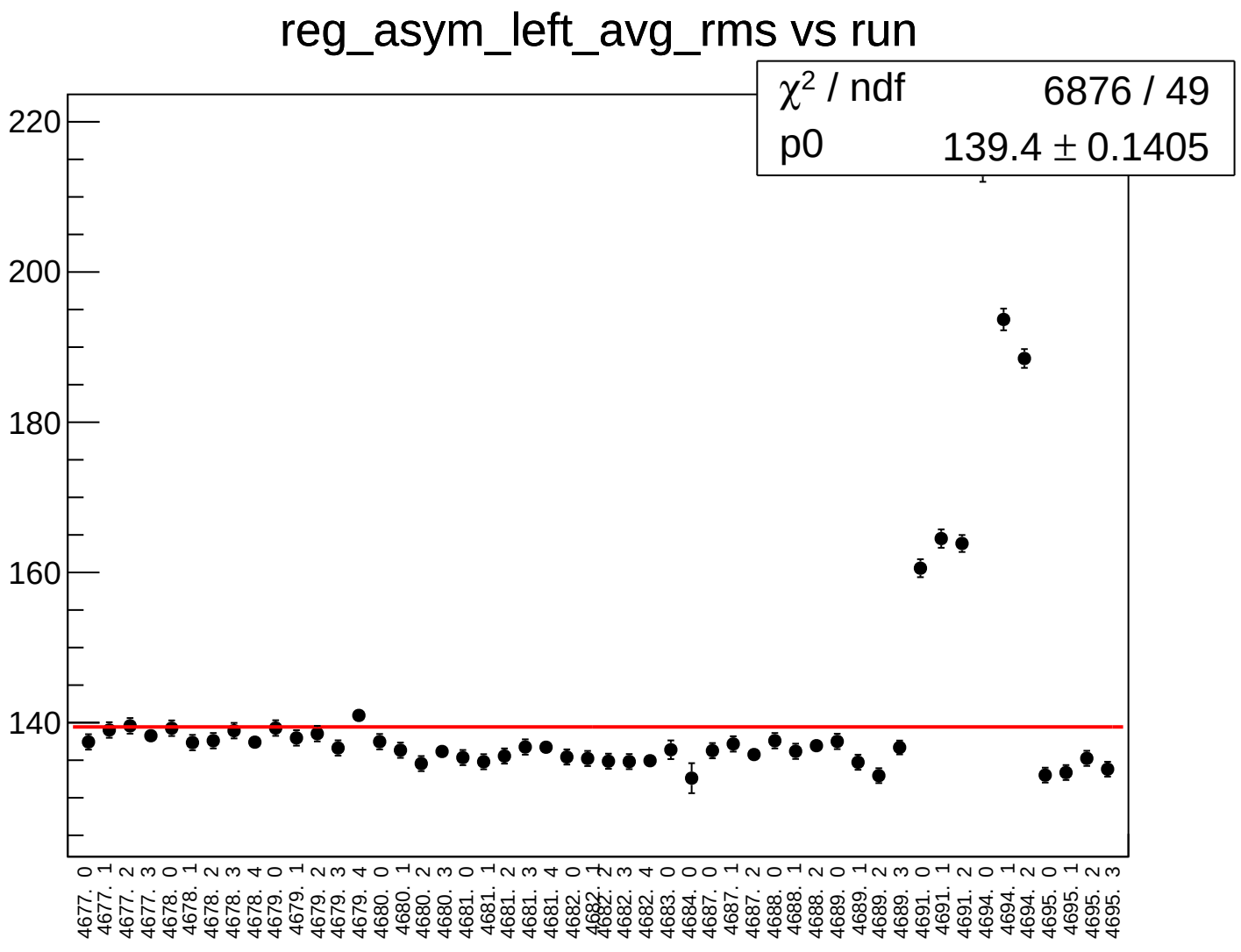
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 5412
Std Dev 5398
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 50
Mean 0.000519
Std Dev 0.8777
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_left_avg_rms vs run
χ² / ndf 6876 / 49
p0 139.4 ± 0.1405
220
200
180
160
140
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4691. 2
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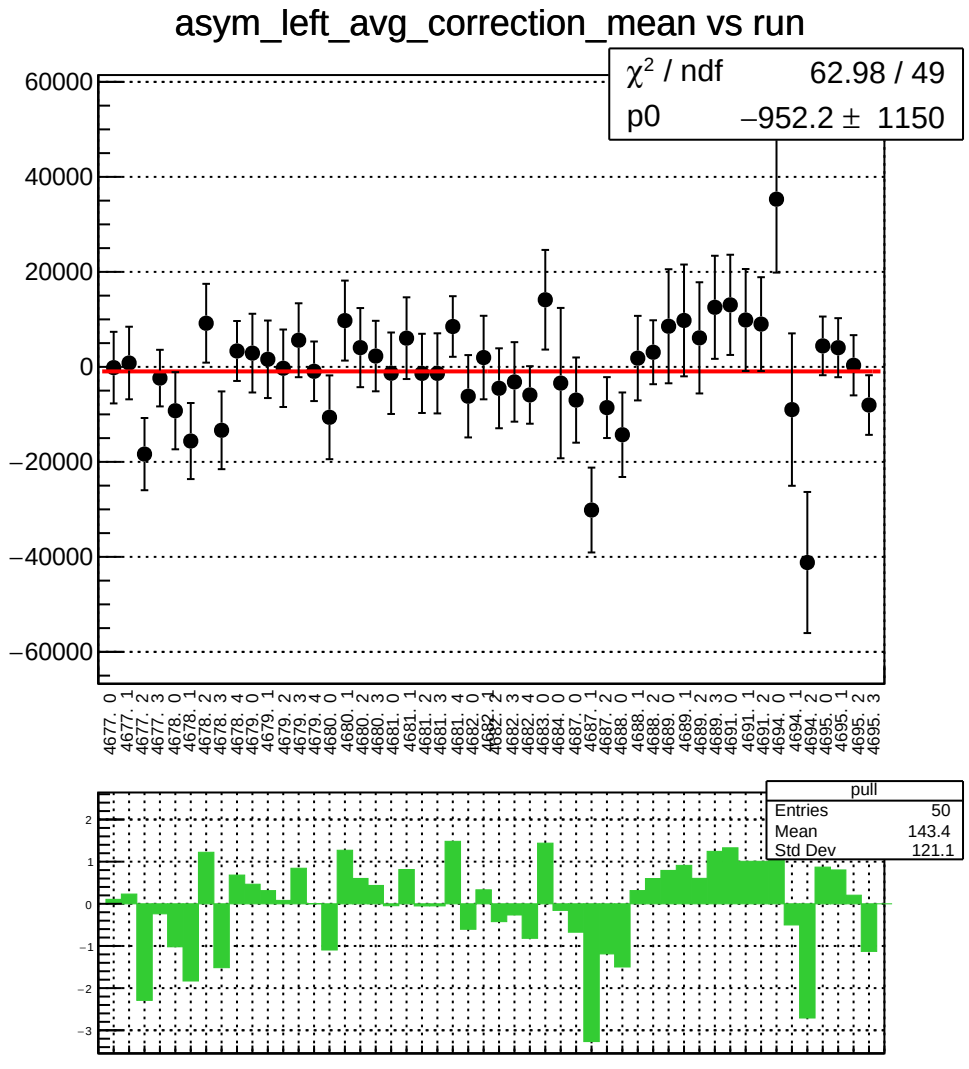
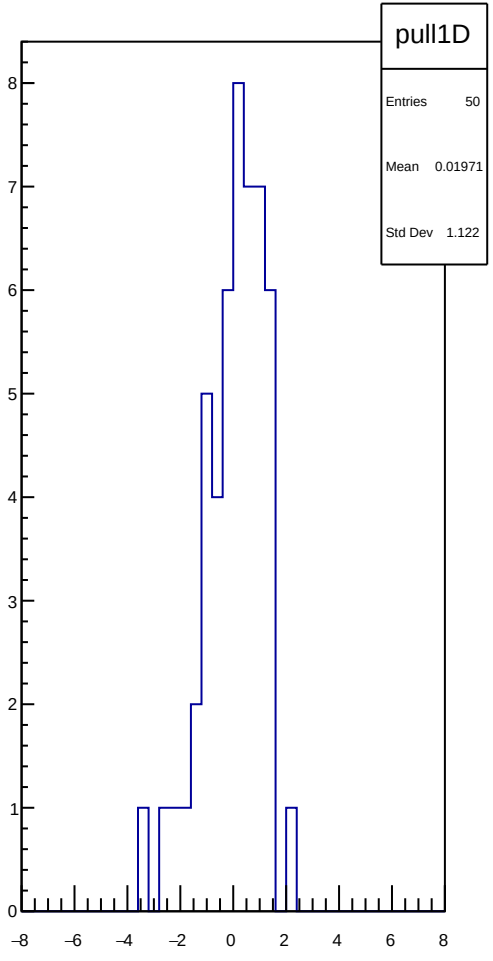
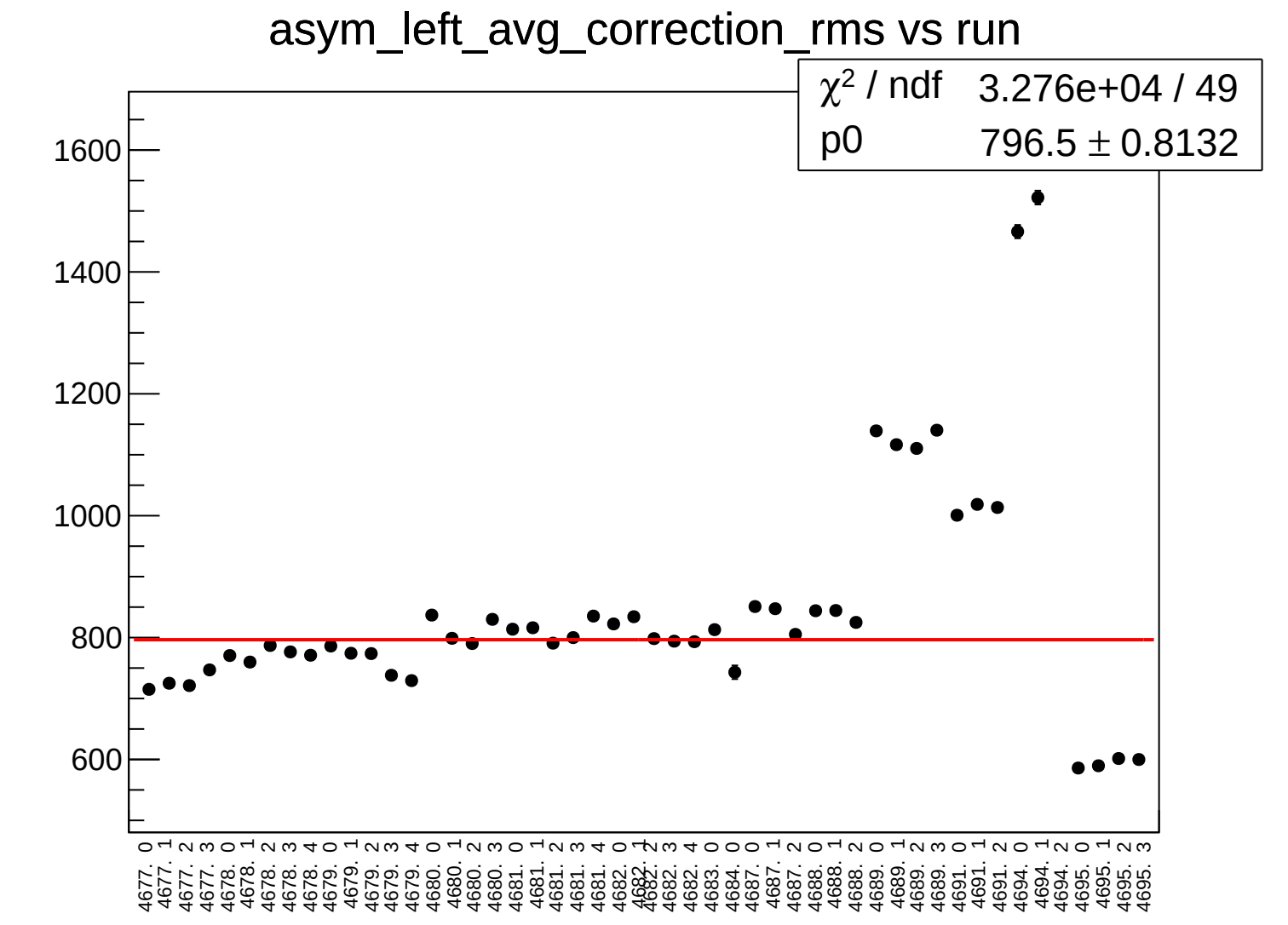
4695. 2
4695. 3


asym_left_avg_correction_mean vs run
χ² / ndf 62.98 / 49
p0 −952.2 ± 1150
pull
Entries 50
Mean 143.4
Std Dev 121.1


pull1D
Entries 50
Mean 0.01971
Std Dev 1.122


asym_left_avg_correction_rms vs run
χ² / ndf 3.276e+04 / 49
p0 796.5 ± 0.8132
1600
1400
1200
1000
800
600
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
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4681. 2
4681. 3
4681. 4
4682. 0
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4682. 2
4682. 3
4682. 4
4683. 0
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4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
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4689. 3
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4695. 0
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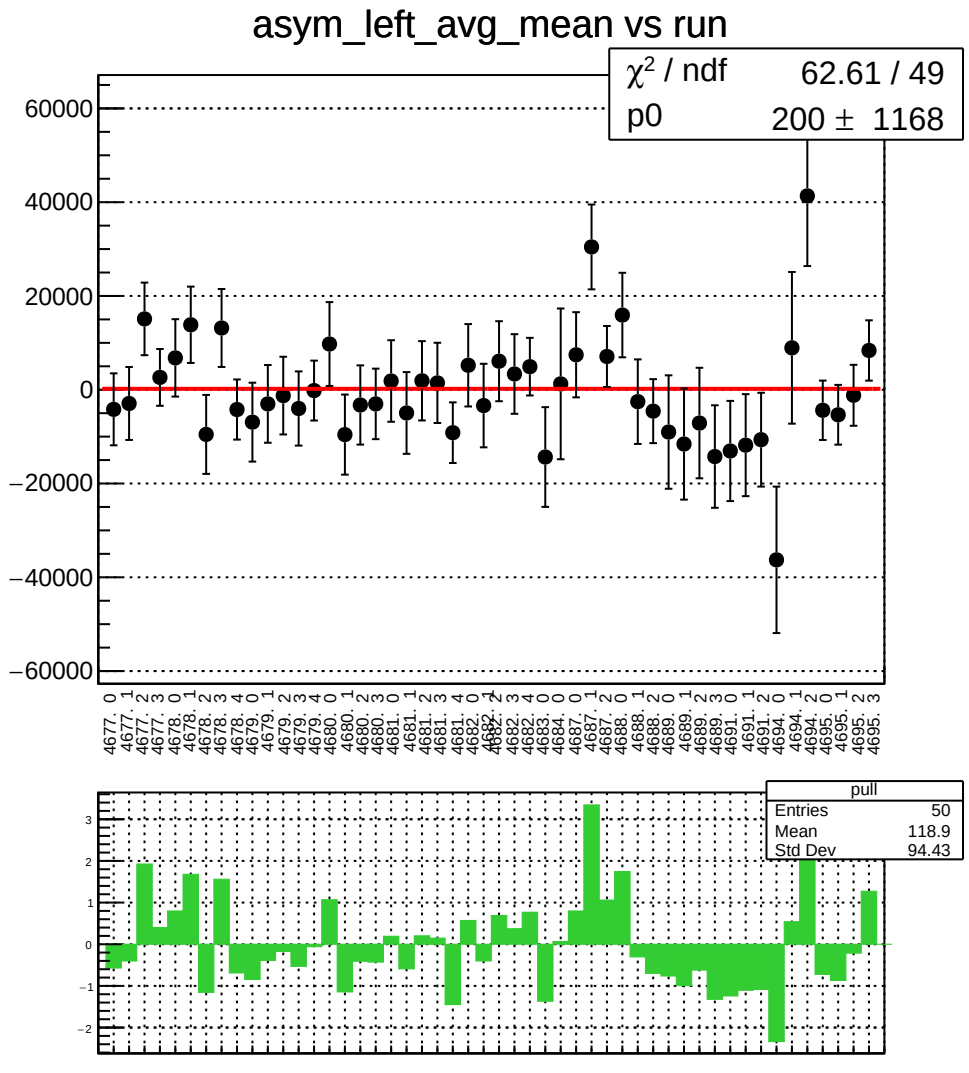
4695. 3


asym_left_avg_mean vs run
χ² / ndf 62.61 / 49
p0 200 ± 1168
60000
40000
20000
0
−20000
−40000
−60000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
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4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
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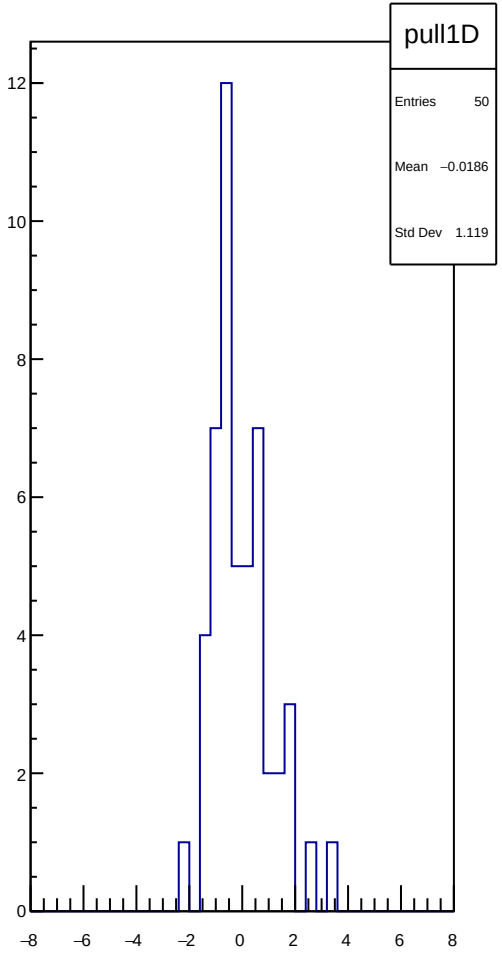
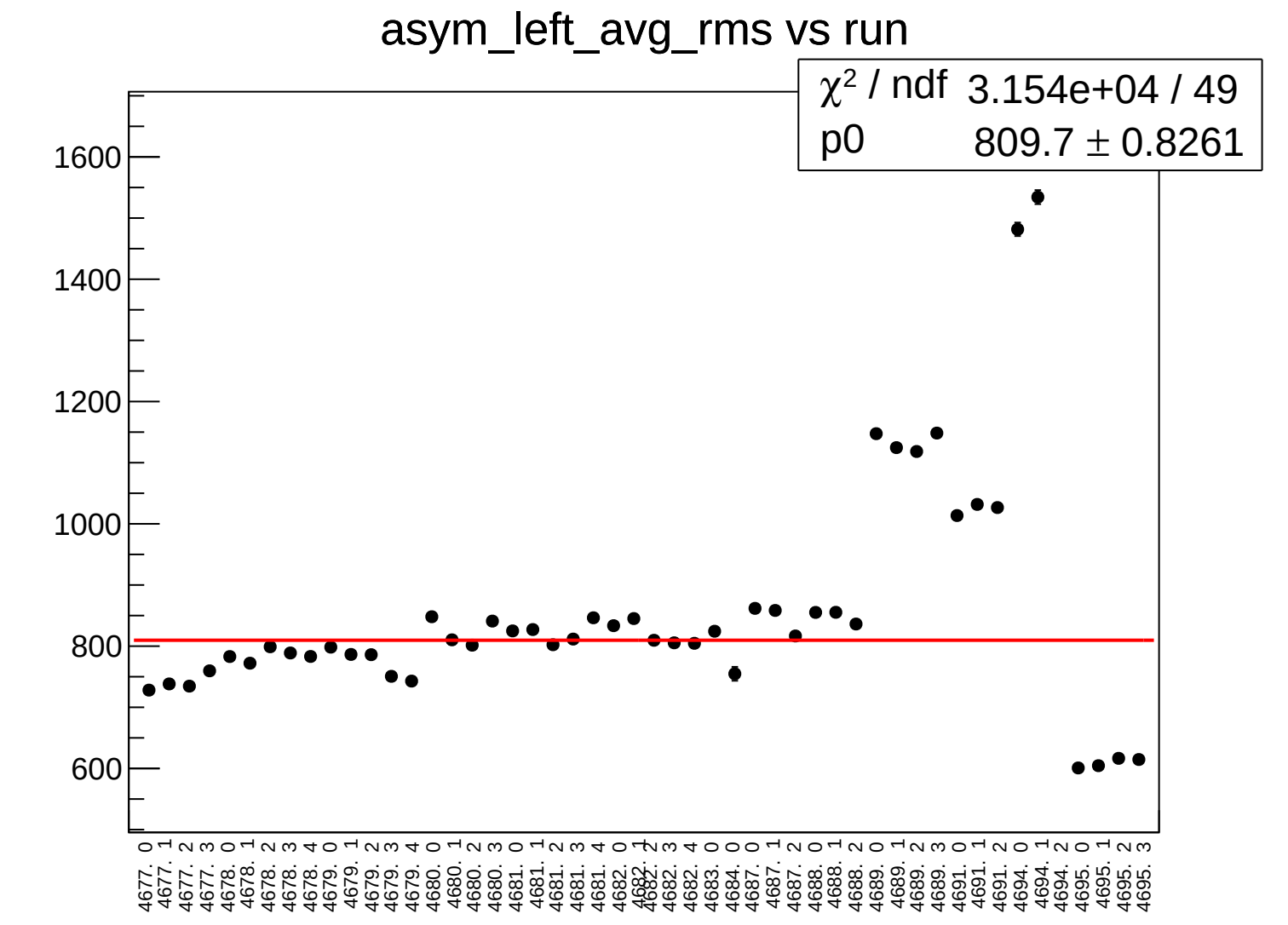
4695. 3
pull
Entries 50
Mean 118.9
Std Dev 94.43
3
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.0186
Std Dev 1.119
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_left_avg_rms vs run
χ² / ndf 3.154e+04 / 49
p0 809.7 ± 0.8261
1600
1400
1200
1000
800
600
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4691. 2
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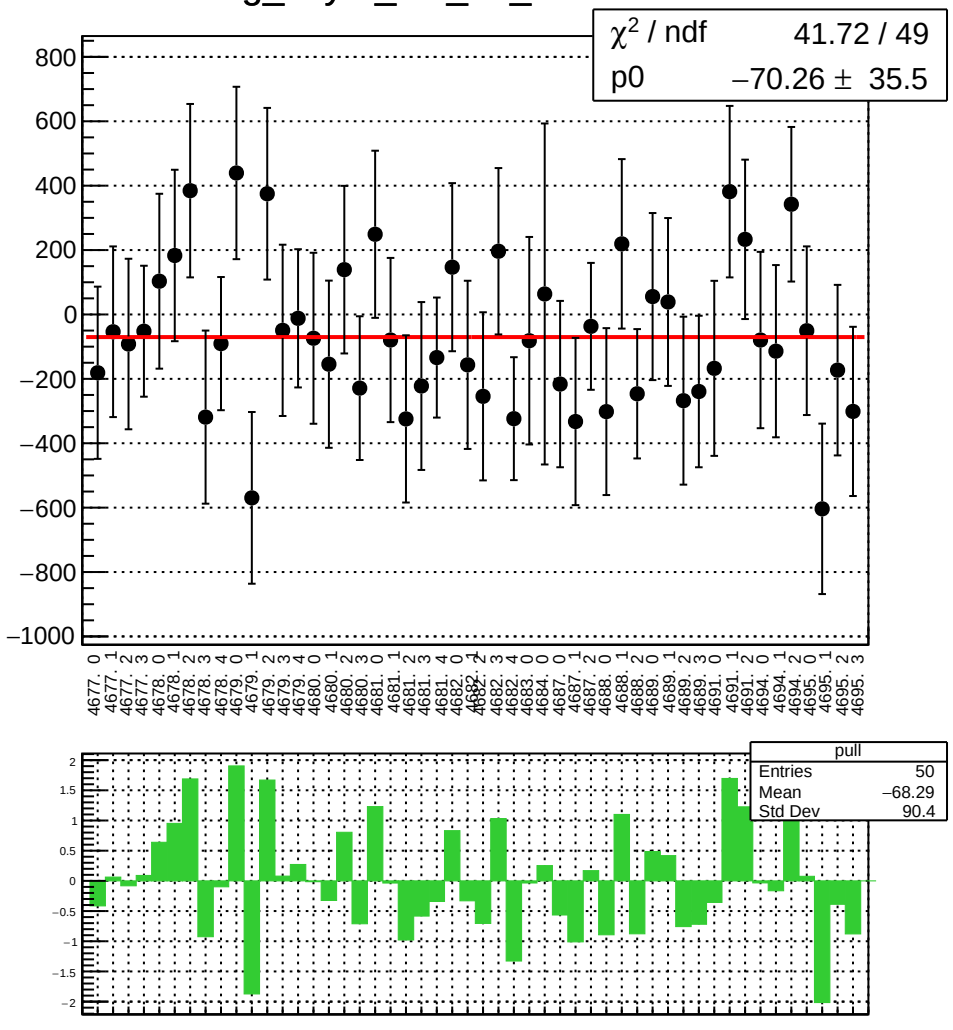
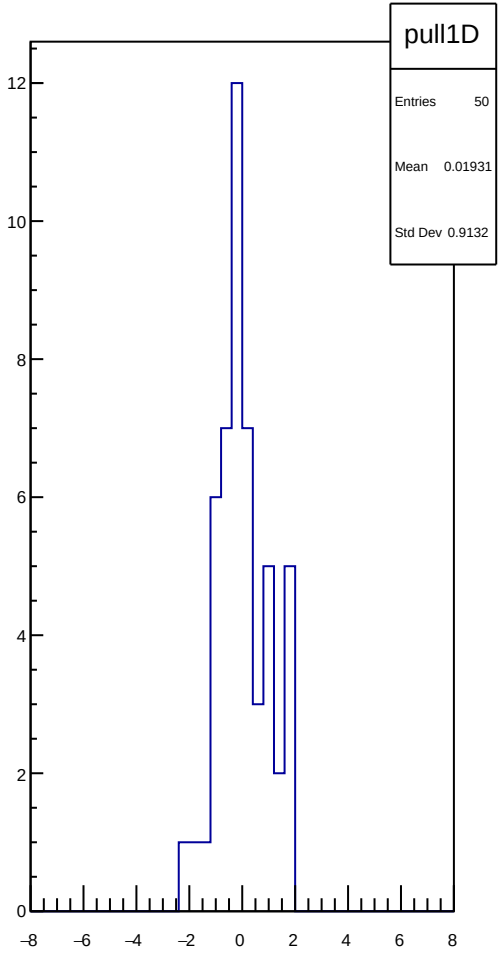
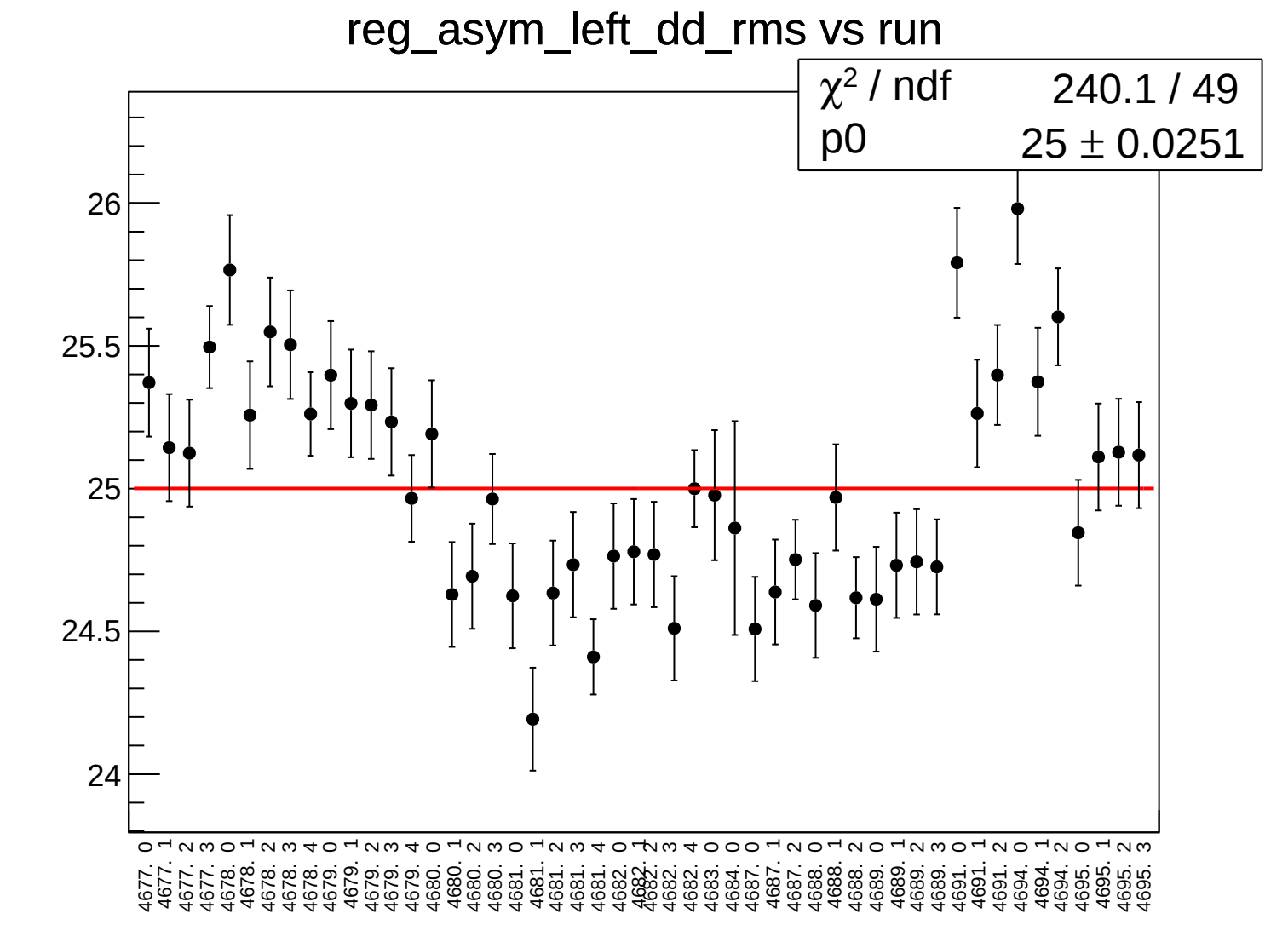
4695. 2
4695. 3


reg_asym_left_dd_mean vs run
χ² / ndf 41.72 / 49
p0 −70.26 ± 35.5
pull
Entries 50
Mean −68.29
Std Dev 90.4


pull1D
Entries 50
Mean 0.01931
Std Dev 0.9132


reg_asym_left_dd_rms vs run
χ² / ndf 240.1 / 49
p0 25 ± 0.0251
26
25.5
25
24.5
24
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4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
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4679. 2
4679. 3
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4680. 0
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4680. 2
4680. 3
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4681. 1
4681. 2
4681. 3
4681. 4
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4682. 1
4682. 2
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4682. 4
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4689. 1
4689. 2
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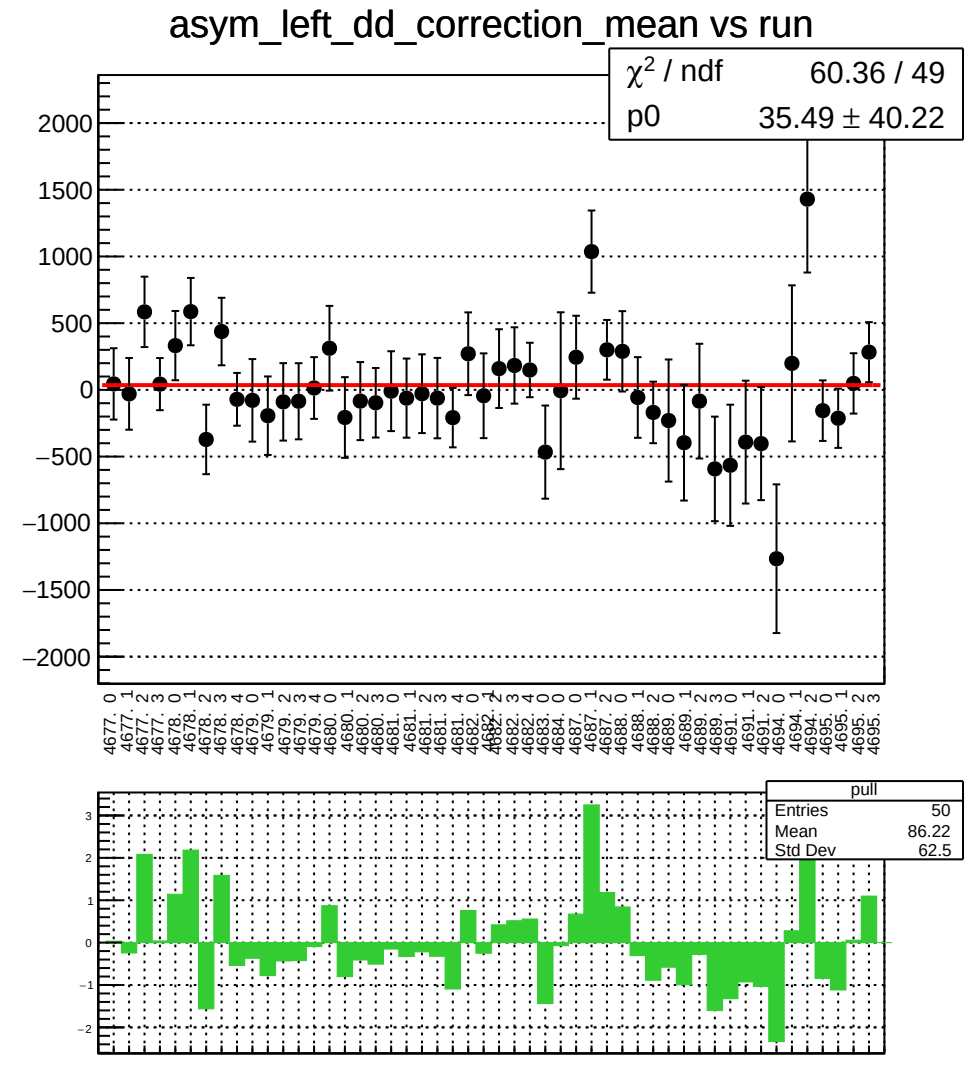
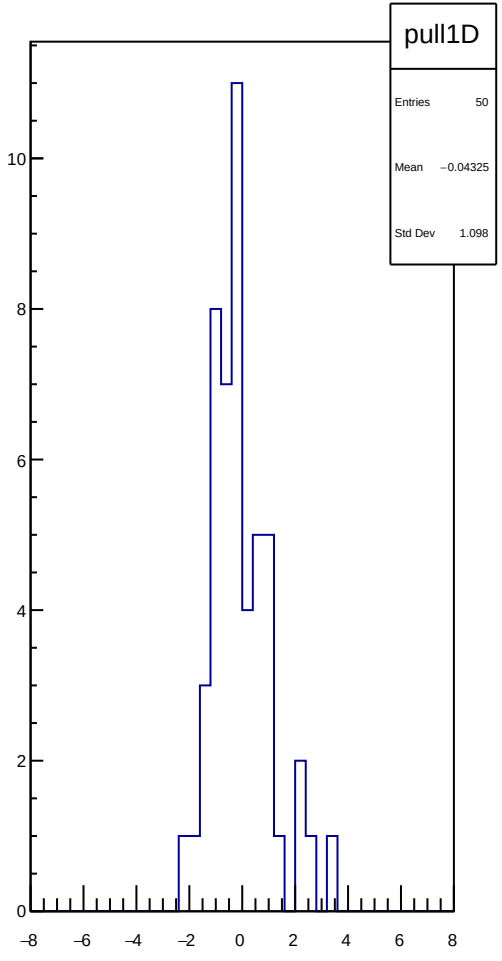
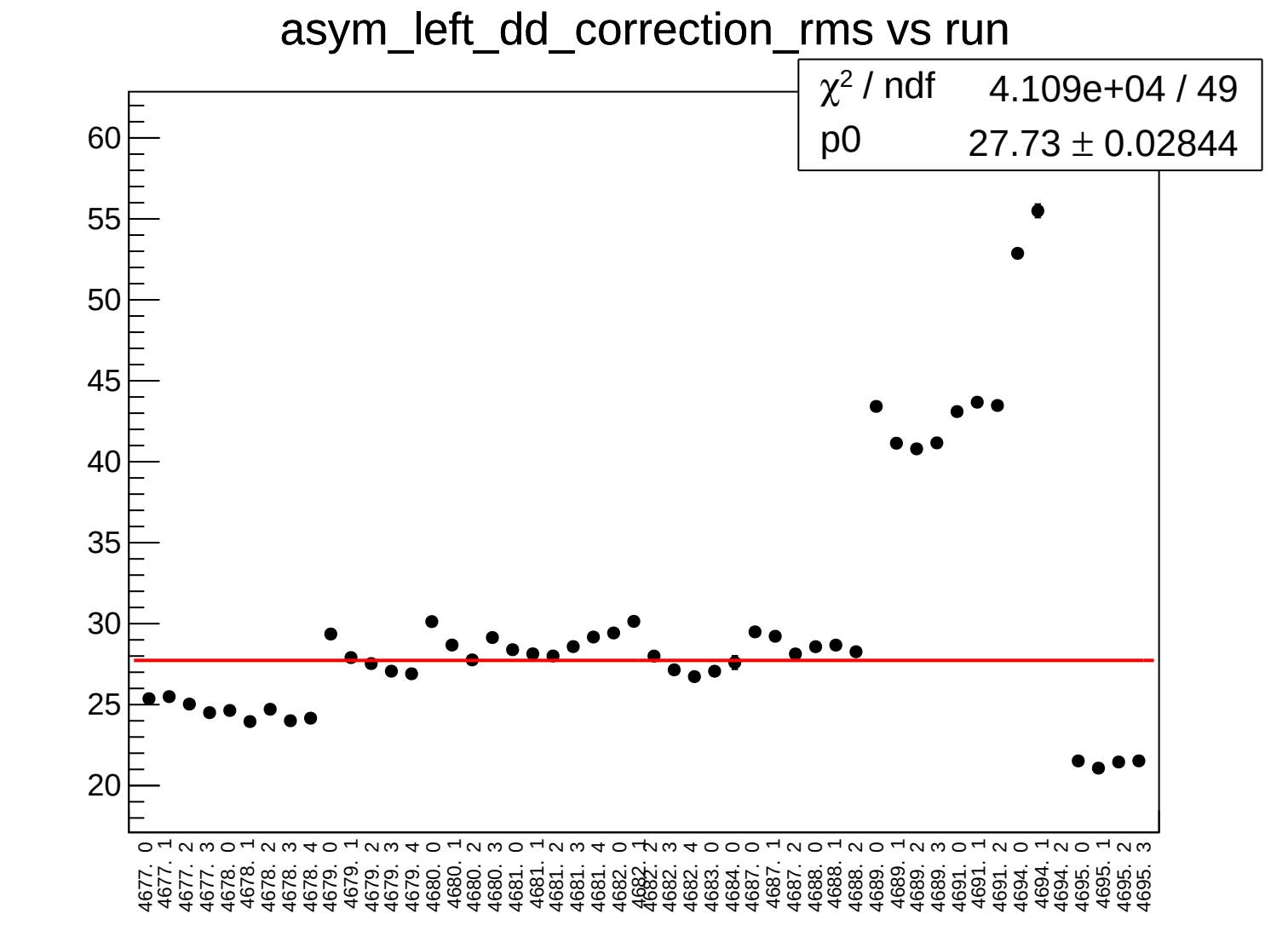

asym_left_dd_correction_mean vs run
χ^2 / ndf 60.36 / 49
p0 35.49 ± 40.22
pull
Entries 50
Mean 86.22
Std Dev 62.5


pull1D
Entries 50
Mean −0.04325
Std Dev 1.098


asym_left_dd_correction_rms vs run
χ² / ndf 4.109e+04 / 49
p0 27.73 ± 0.02844
60
55
50
45
40
35
30
25
20
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4678. 1
4678. 2
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4679. 2
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4679. 4
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4680. 3
4681. 0
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4681. 2
4681. 3
4681. 4
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4682. 1
4682. 2
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4682. 4
4683. 0
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4689. 2
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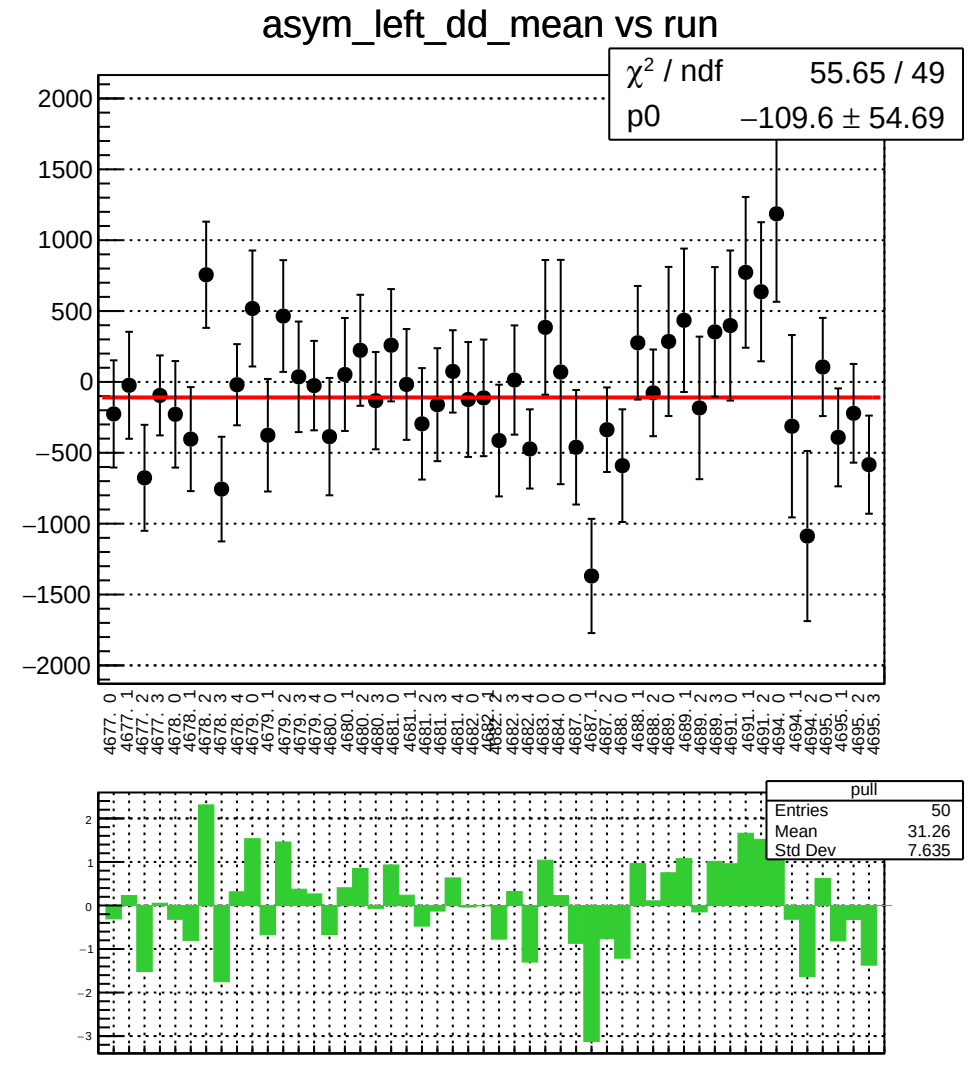
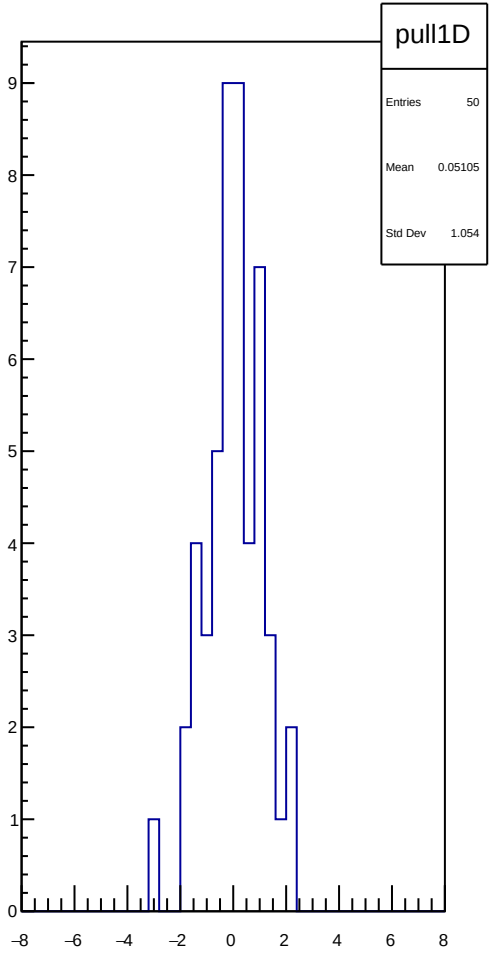
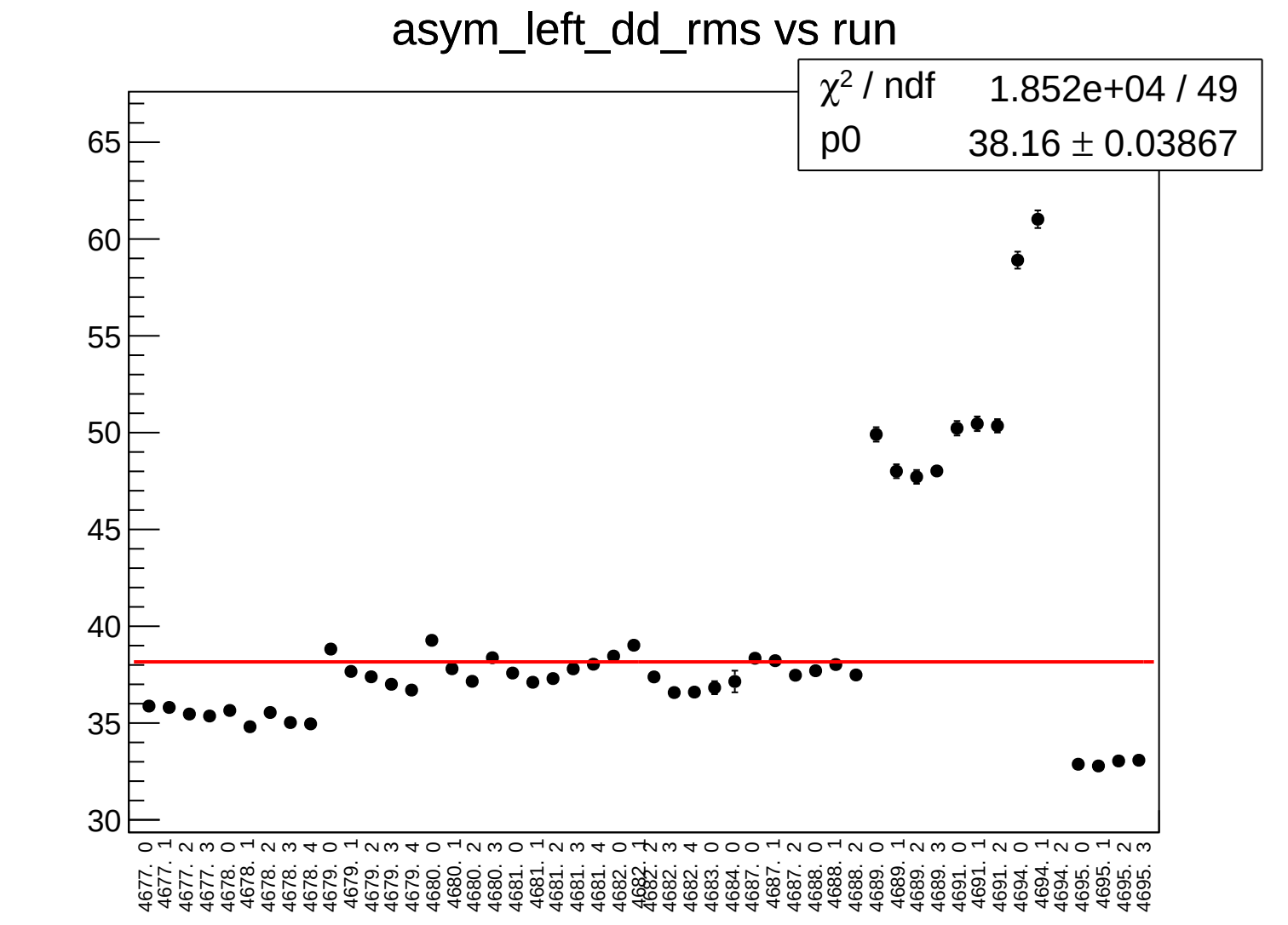

asym_left_dd_mean vs run
χ² / ndf 55.65 / 49
p0 −109.6 ± 54.69
pull
Entries 50
Mean 31.26
Std Dev 7.635


pull1D
Entries 50
Mean 0.05105
Std Dev 1.054


asym_left_dd_rms vs run
χ² / ndf 1.852e+04 / 49
p0 38.16 ± 0.03867
65
60
55
50
45
40
35
30
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
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4678. 2
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4678. 4
4679. 0
4679. 1
4679. 2
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4681. 4
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4682. 1
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4682. 3
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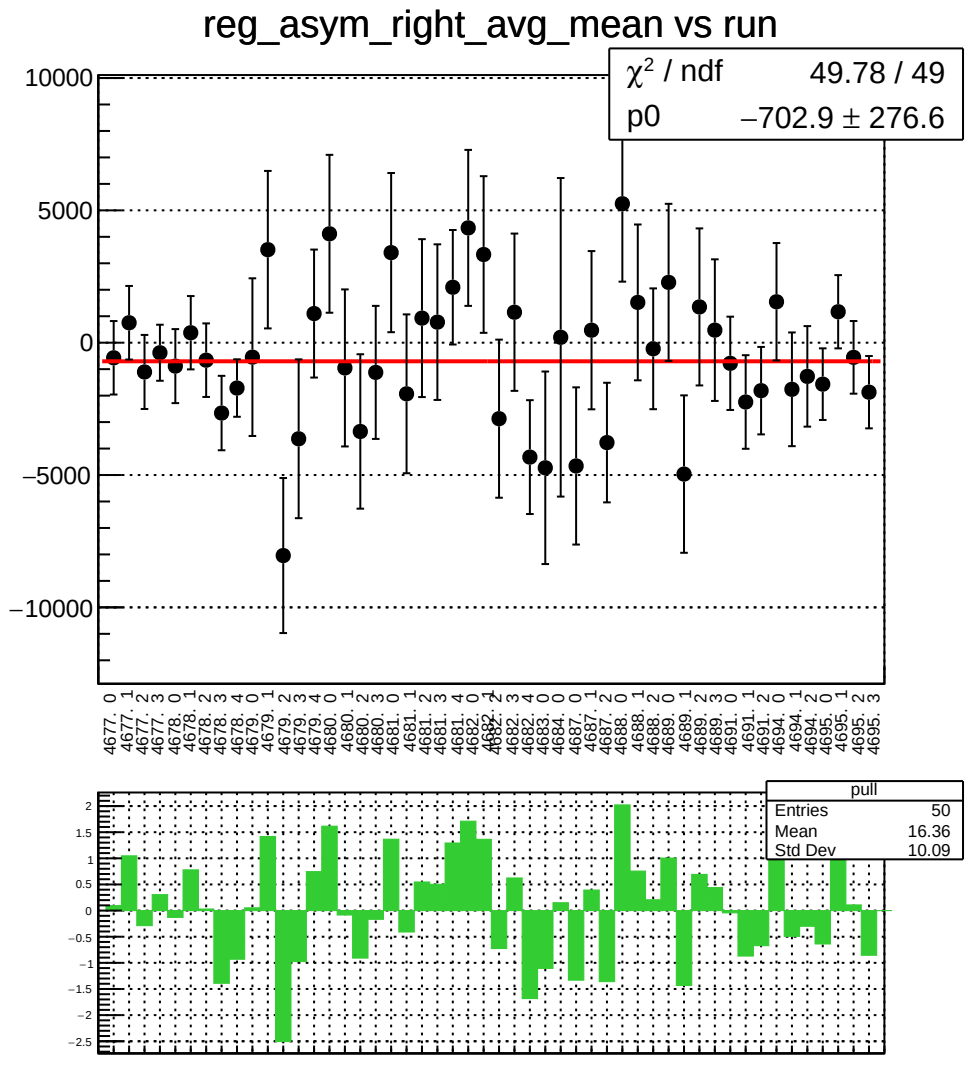
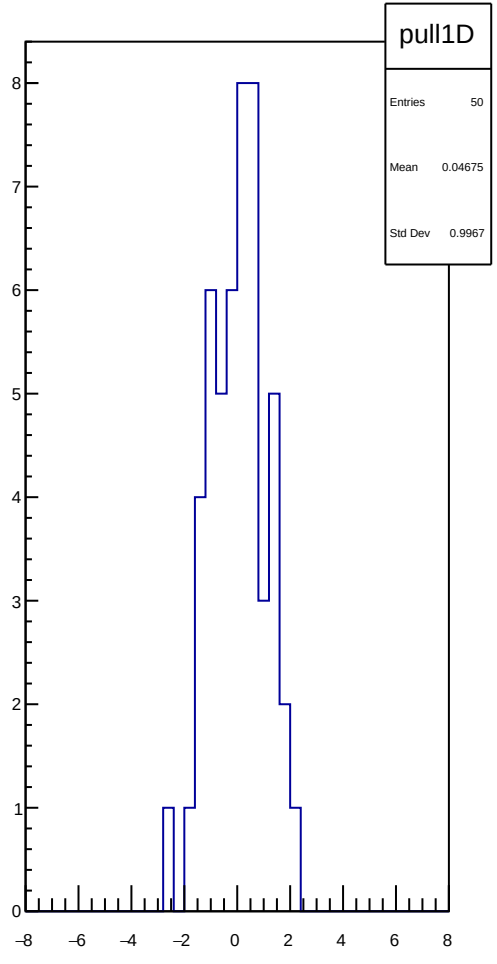
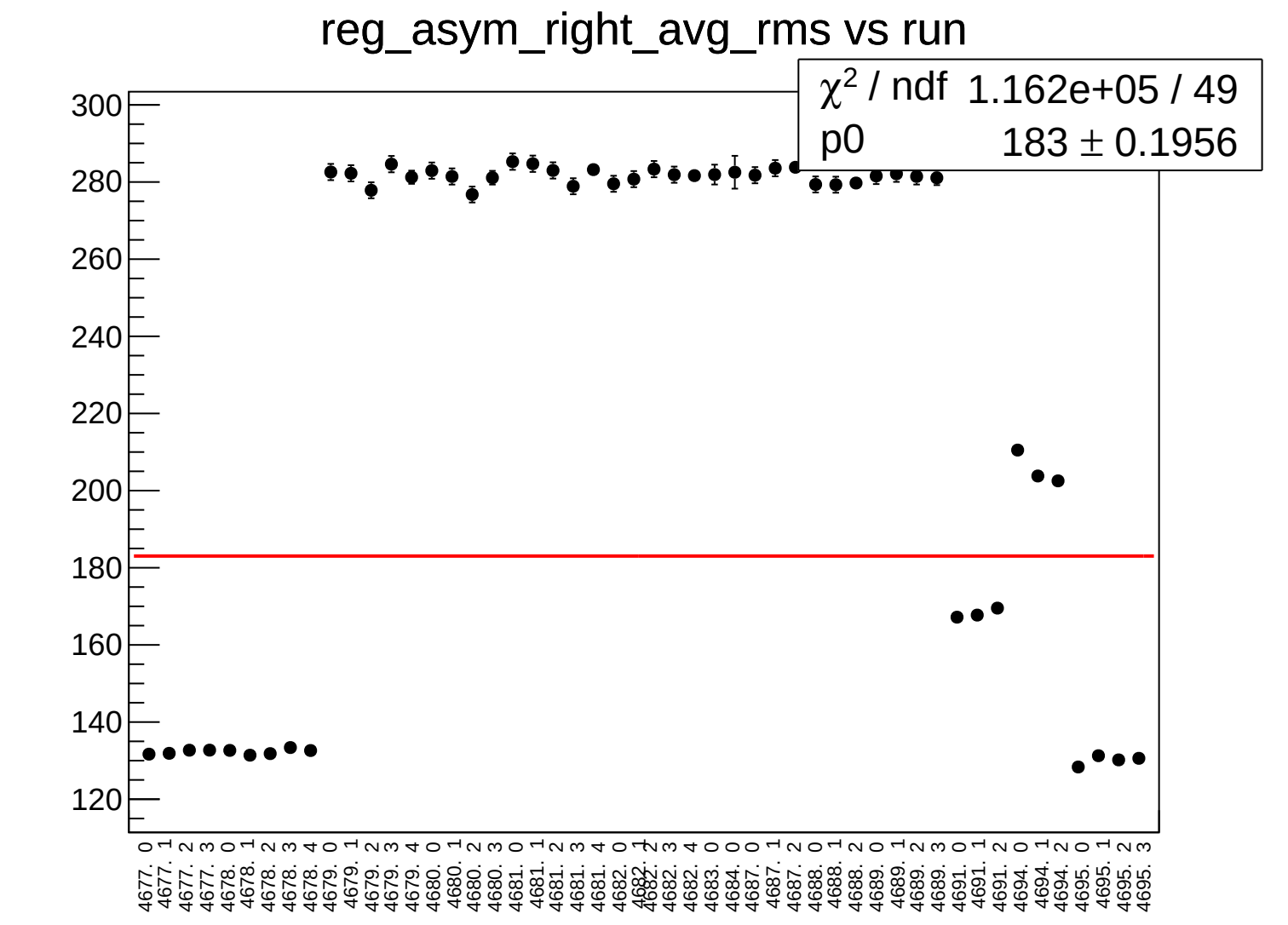

reg_asym_right_avg_mean vs run
χ² / ndf 49.78 / 49
p0 −702.9 ± 276.6
pull
Entries 50
Mean 16.36
Std Dev 10.09


pull1D
Entries 50
Mean 0.04675
Std Dev 0.9967


reg_asym_right_avg_rms vs run
χ² / ndf 1.162e+05 / 49
p0 183 ± 0.1956
300
280
260
240
220
200
180
160
140
120
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4679. 0
4679. 1
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4680. 2
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4681. 4
4682. 0
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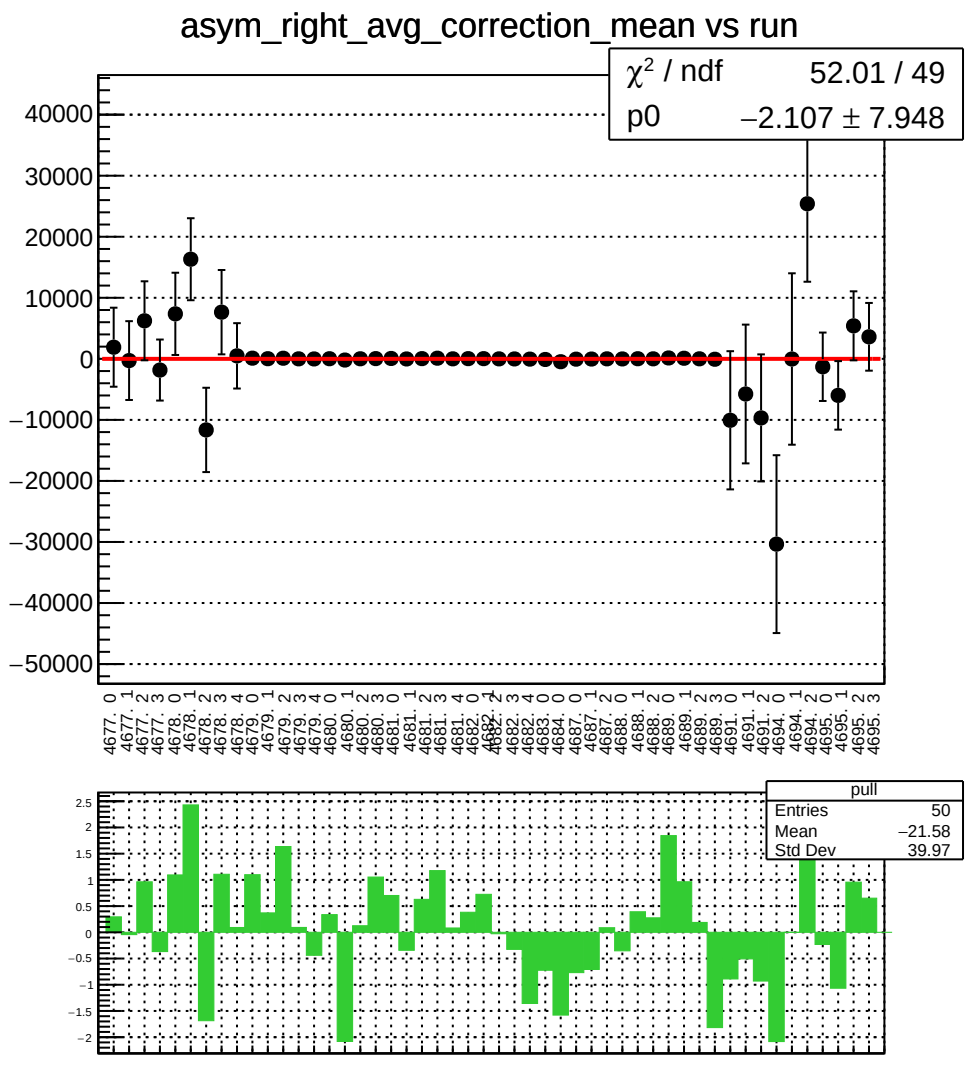
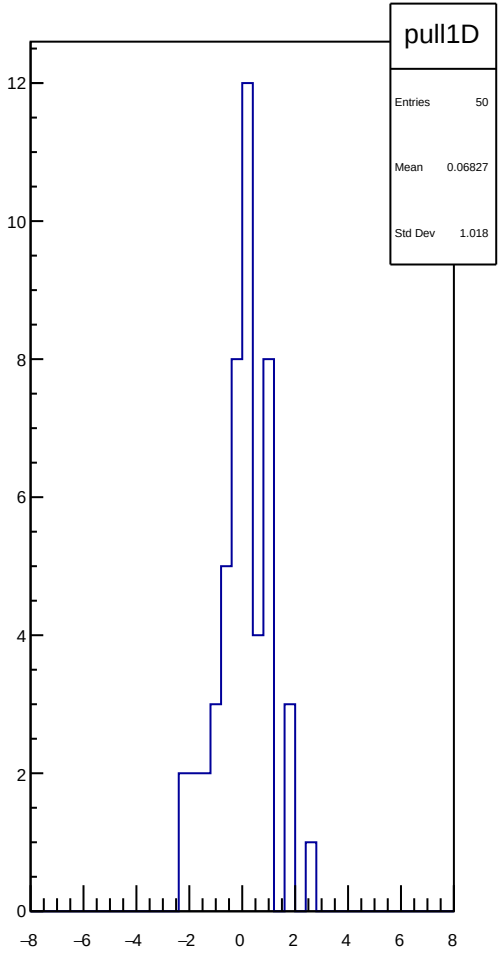
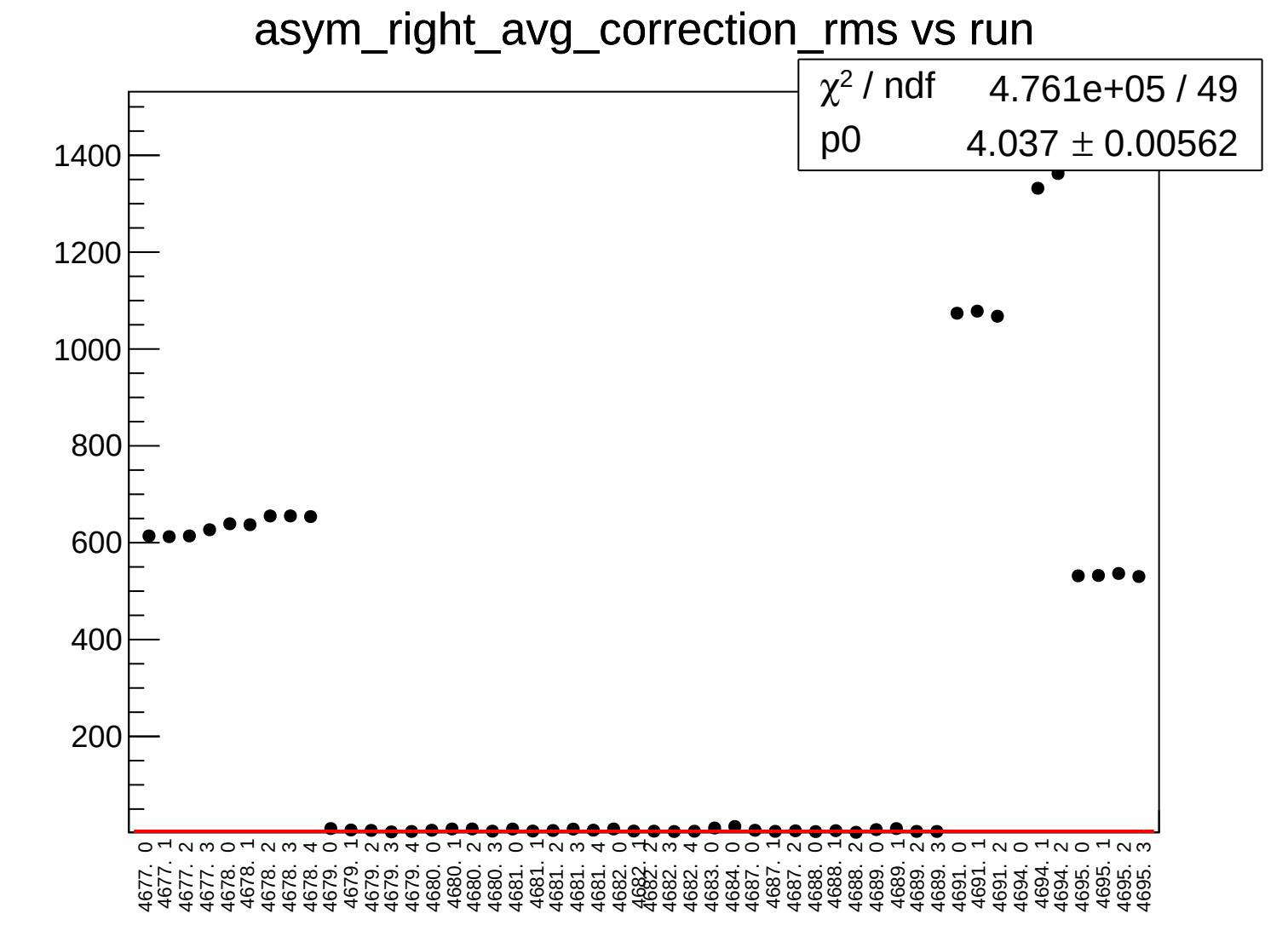
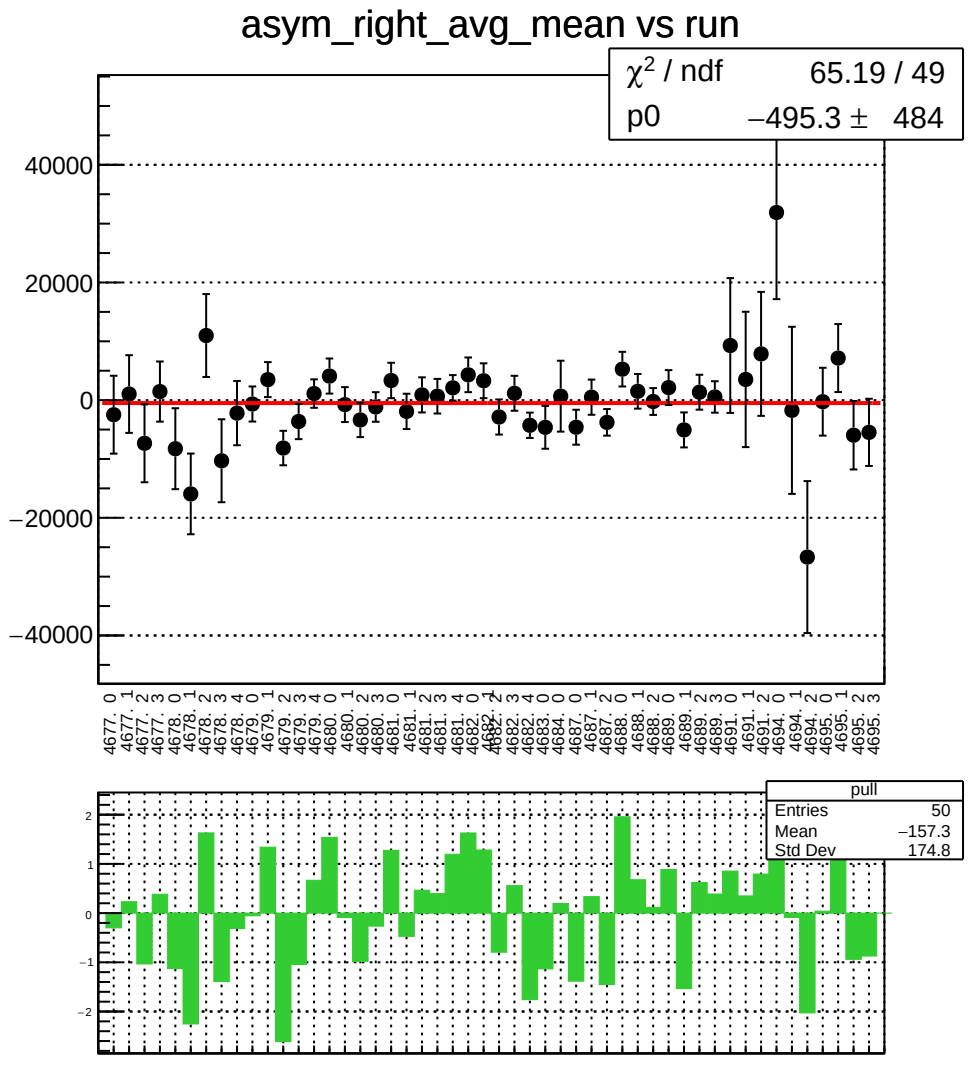
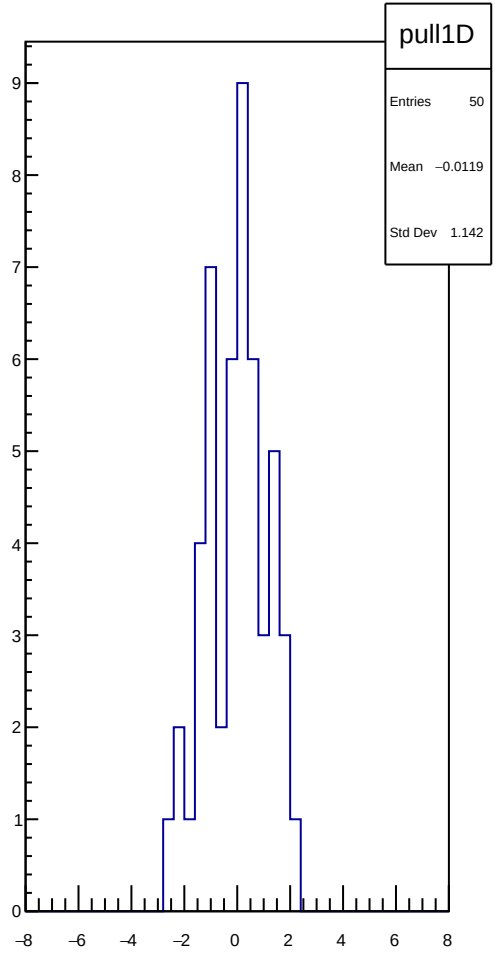
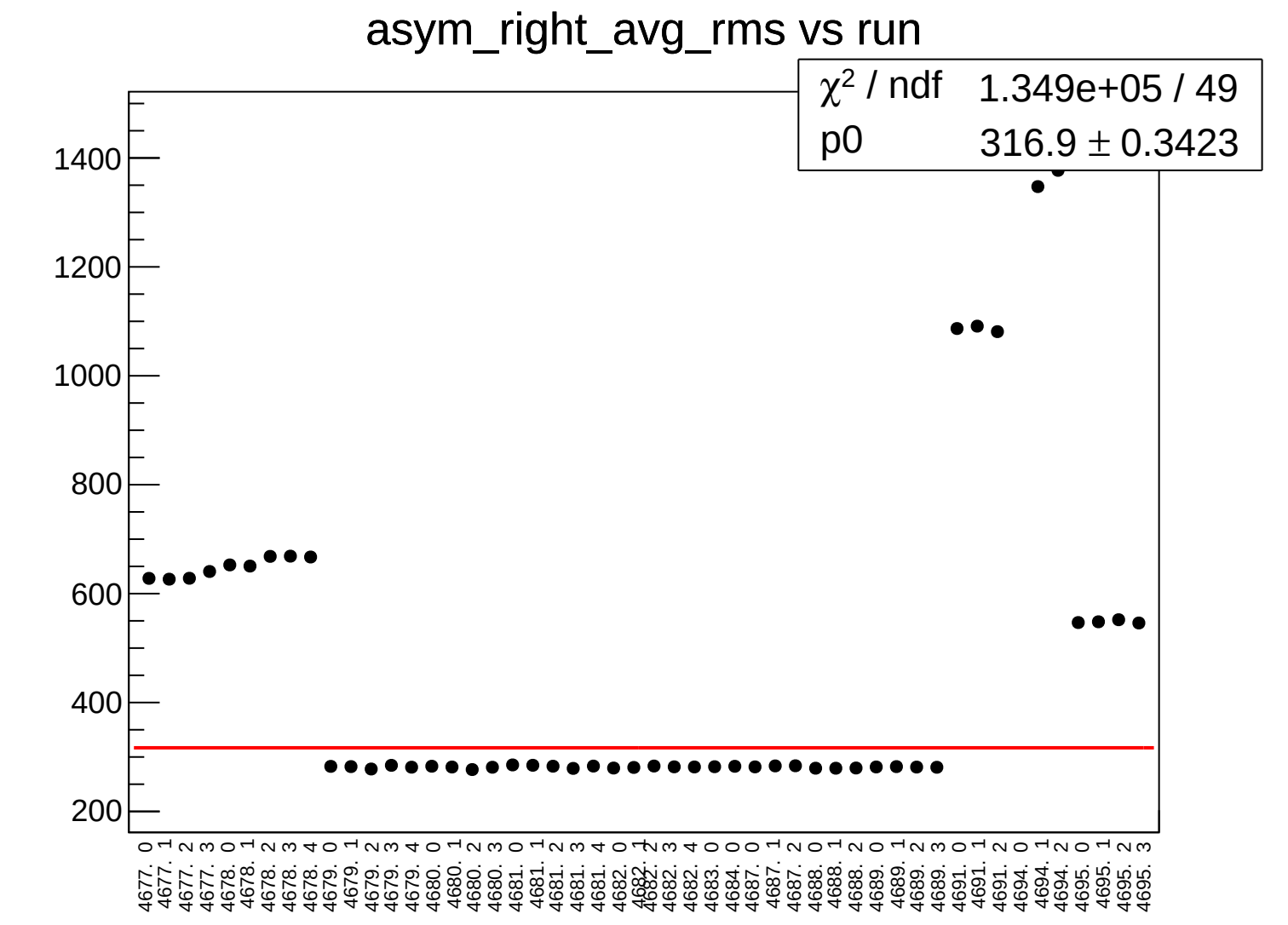

asym_right_avg_correction_mean vs run
χ² / ndf 52.01 / 49
p0 −2.107 ± 7.948
pull
Entries 50
Mean −21.58
Std Dev 39.97

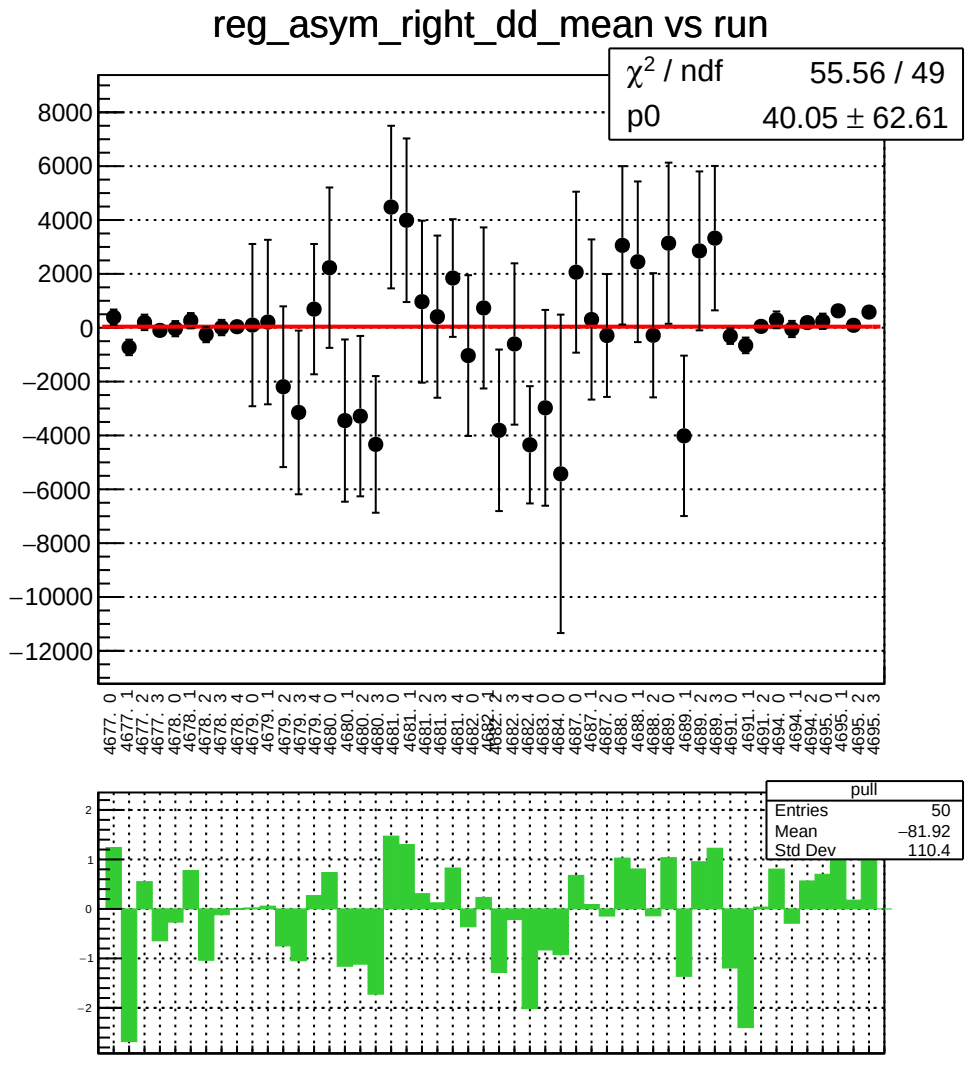

pull1D
Entries 50
Mean 0.06827
Std Dev 1.018

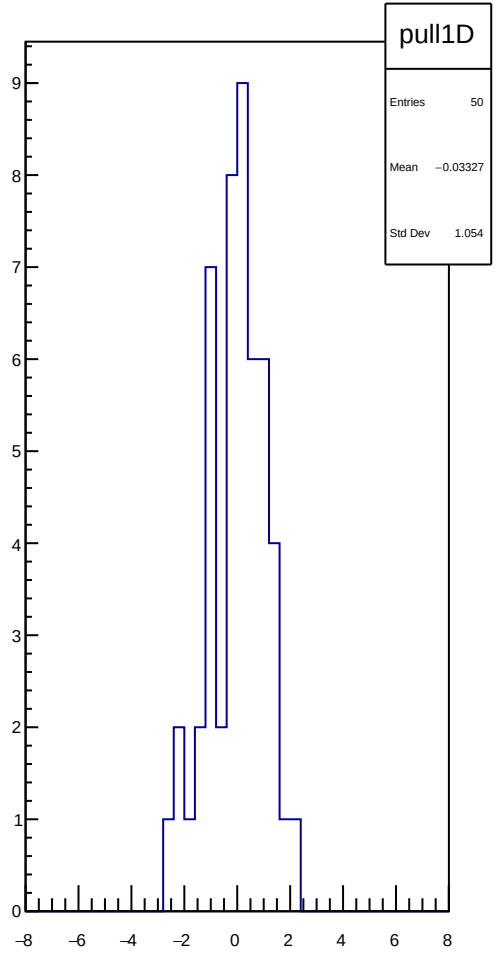

asym_right_avg_correction_rms vs run
χ² / ndf 4.761e+05 / 49
p0 4.037 ± 0.00562
1400
1200
1000
800
600
400
200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

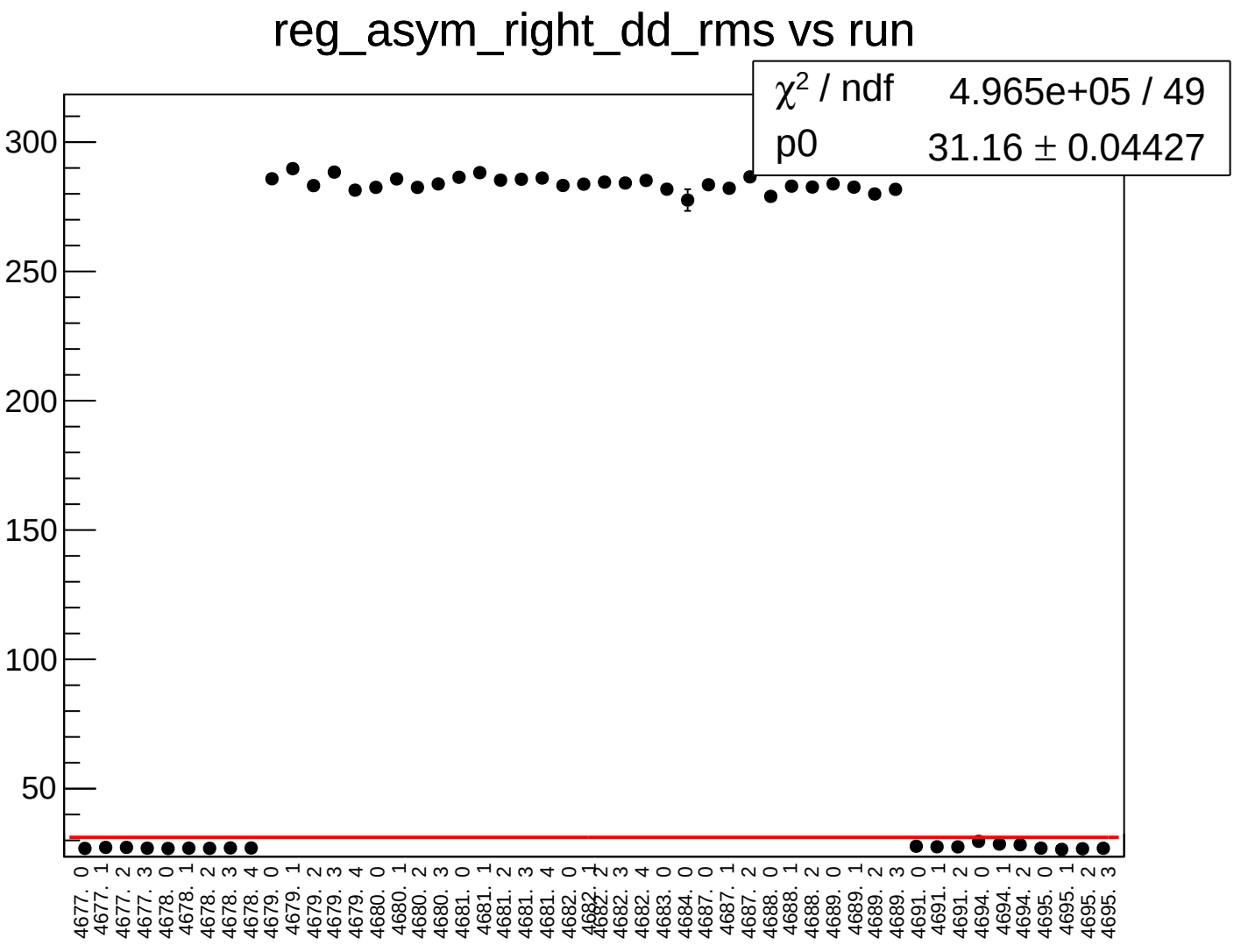

asym_right_avg_mean vs run
χ² / ndf 65.19 / 49
p0 −495.3 ± 484
40000
20000
0
−20000
−40000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean −157.3
Std Dev 174.8
2
1
0
−1
−2

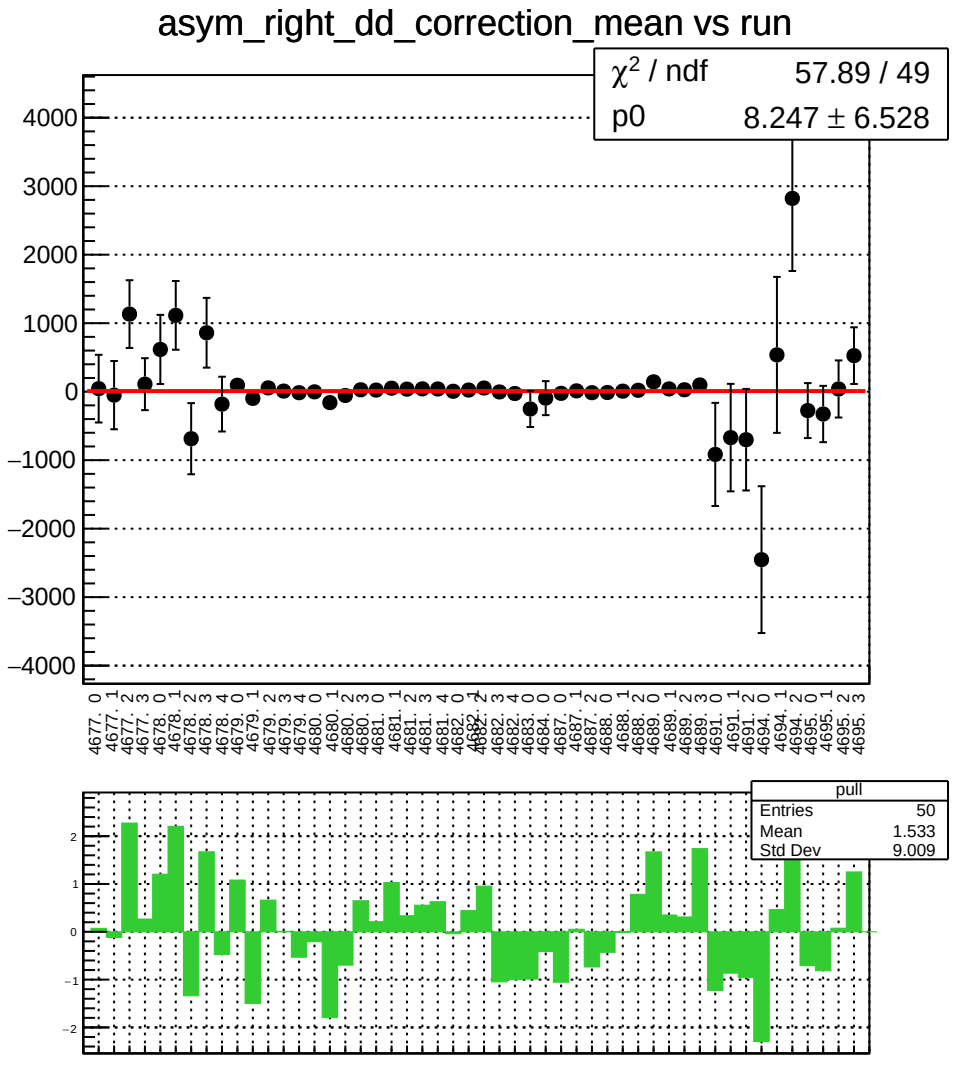

pull1D
Entries 50
Mean −0.0119
Std Dev 1.142
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

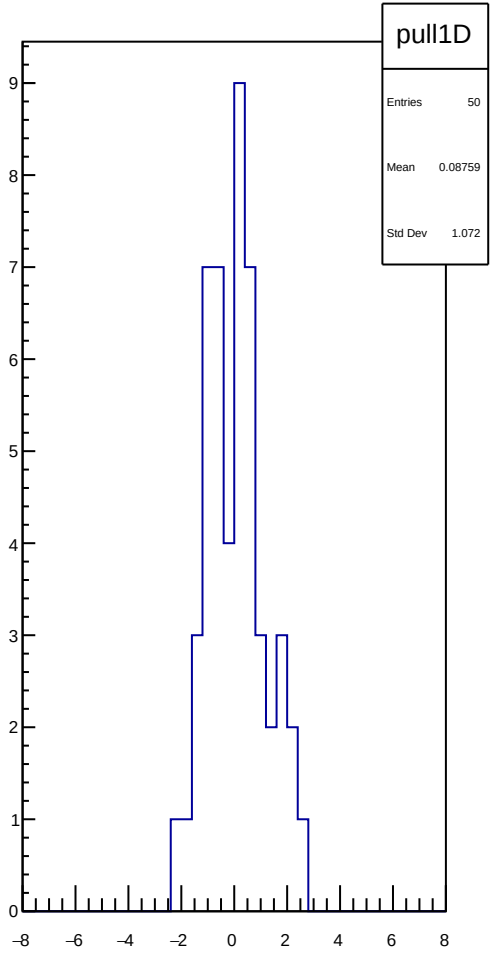

asym_right_avg_rms vs run
χ² / ndf 1.349e+05 / 49
p0 316.9 ± 0.3423
1400
1200
1000
800
600
400
200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

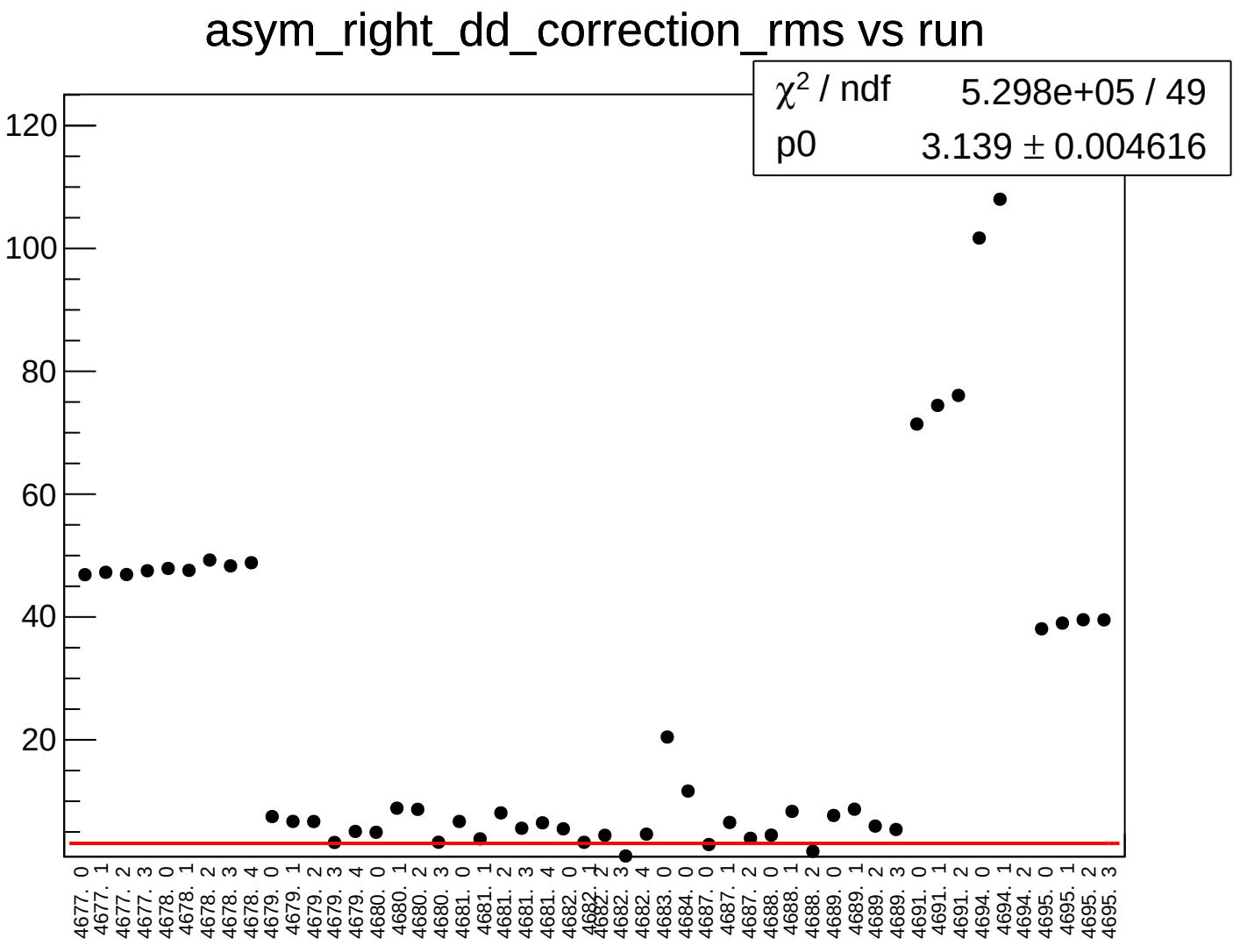

reg_asym_right_dd_mean vs run
χ² / ndf 55.56 / 49
p0 40.05 ± 62.61
pull
Entries 50
Mean −81.92
Std Dev 110.4

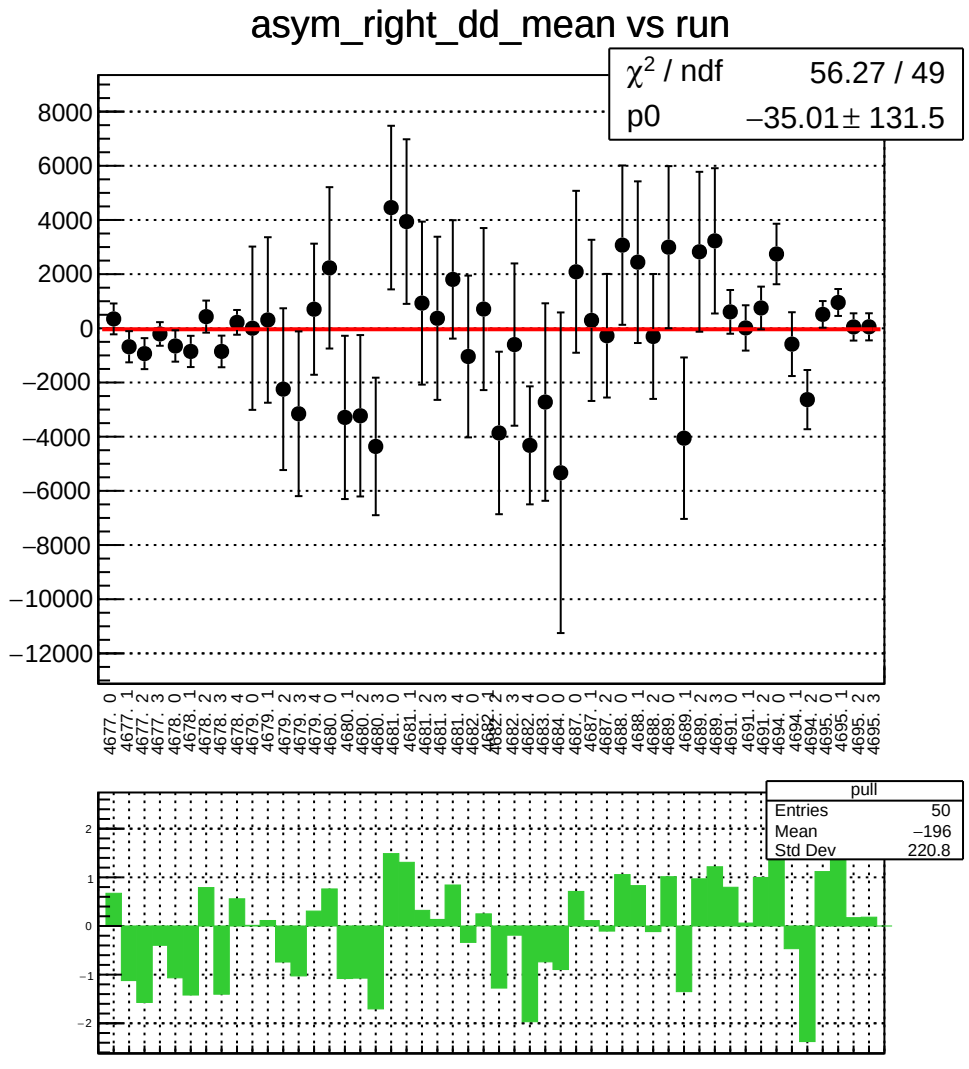

pull1D
Entries 50
Mean −0.03327
Std Dev 1.054

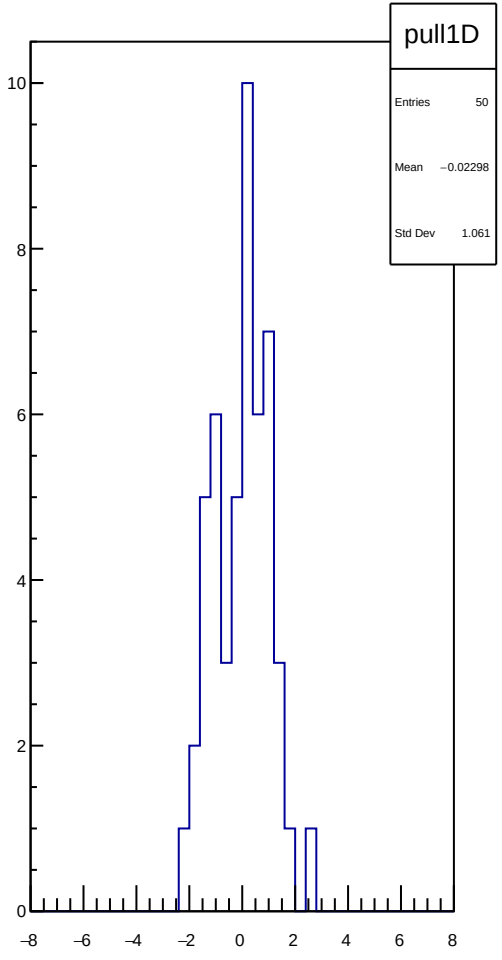

reg_asym_right_dd_rms vs run
χ² / ndf 4.965e+05 / 49
p0 31.16 ± 0.04427
300
250
200
150
100
50
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

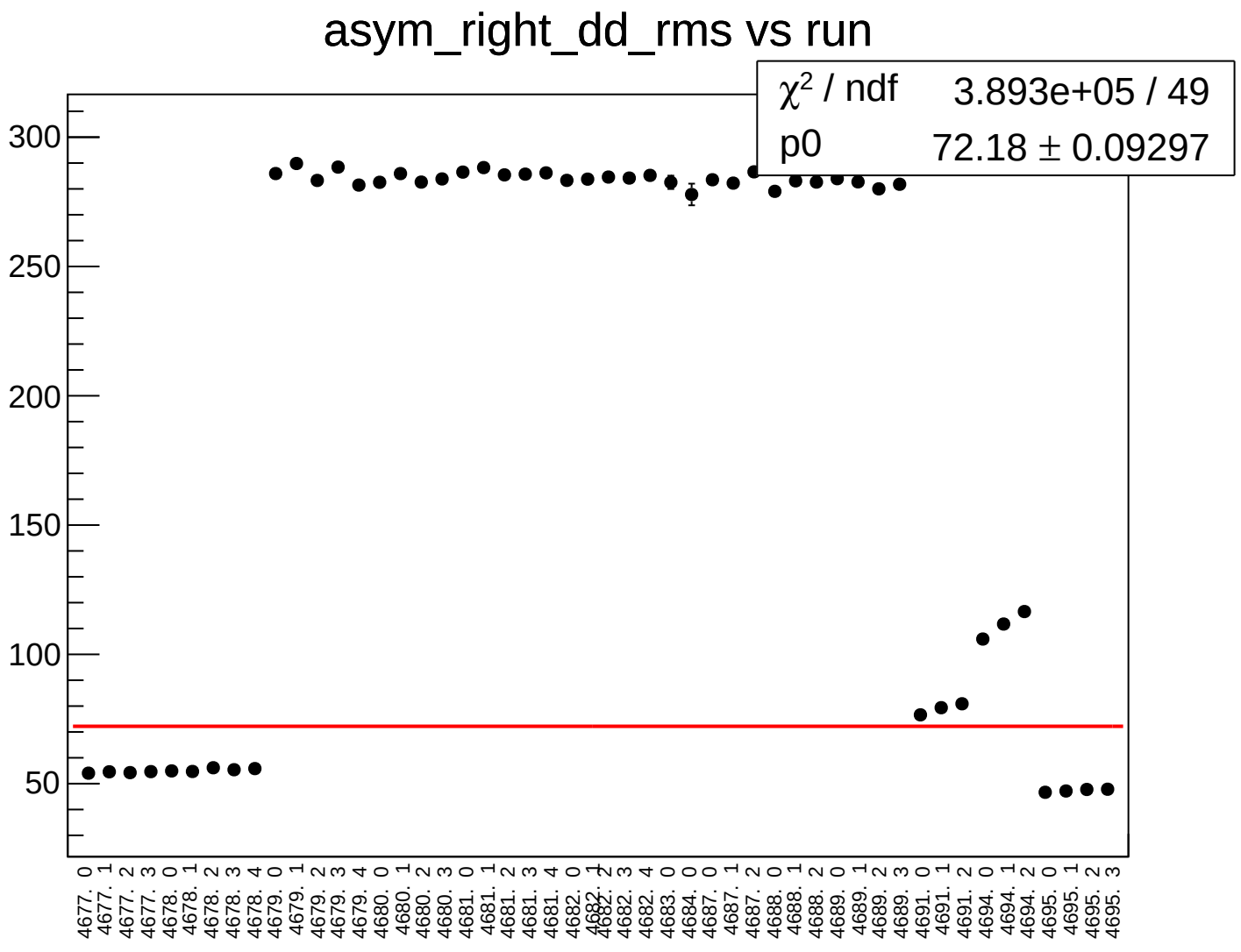

asym_right_dd_correction_mean vs run
χ² / ndf 57.89 / 49
p0 8.247 ± 6.528
pull
Entries 50
Mean 1.533
Std Dev 9.009

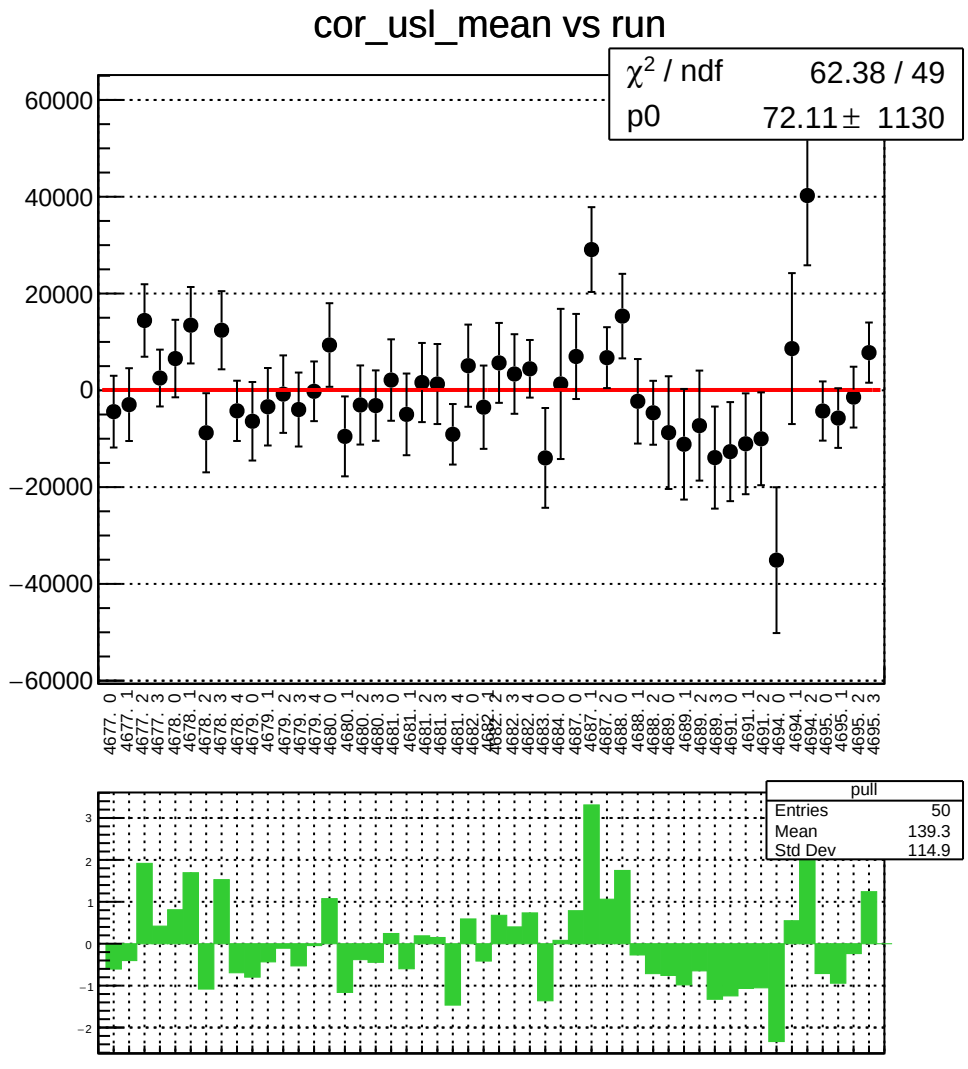

pull1D
Entries 50
Mean 0.08759
Std Dev 1.072

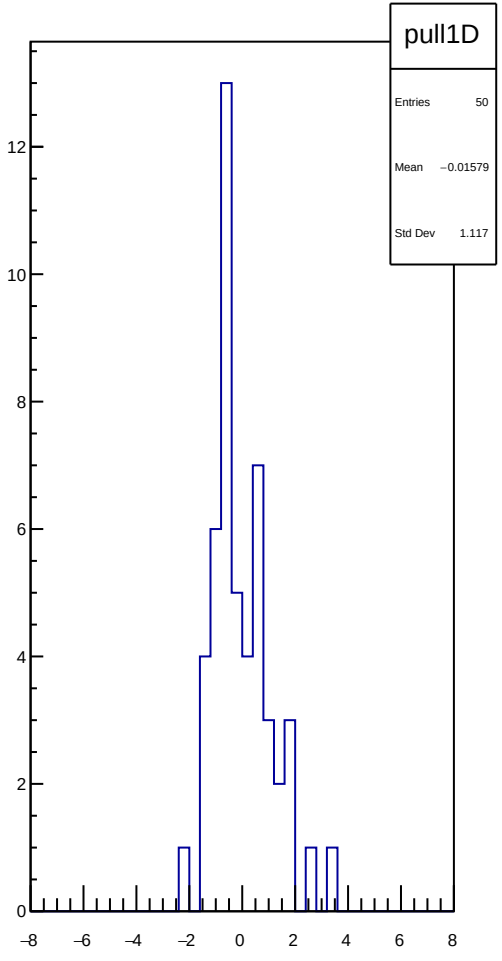

asym_right_dd_correction_rms vs run
χ² / ndf 5.298e+05 / 49
p0 3.139 ± 0.004616
120
100
80
60
40
20
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

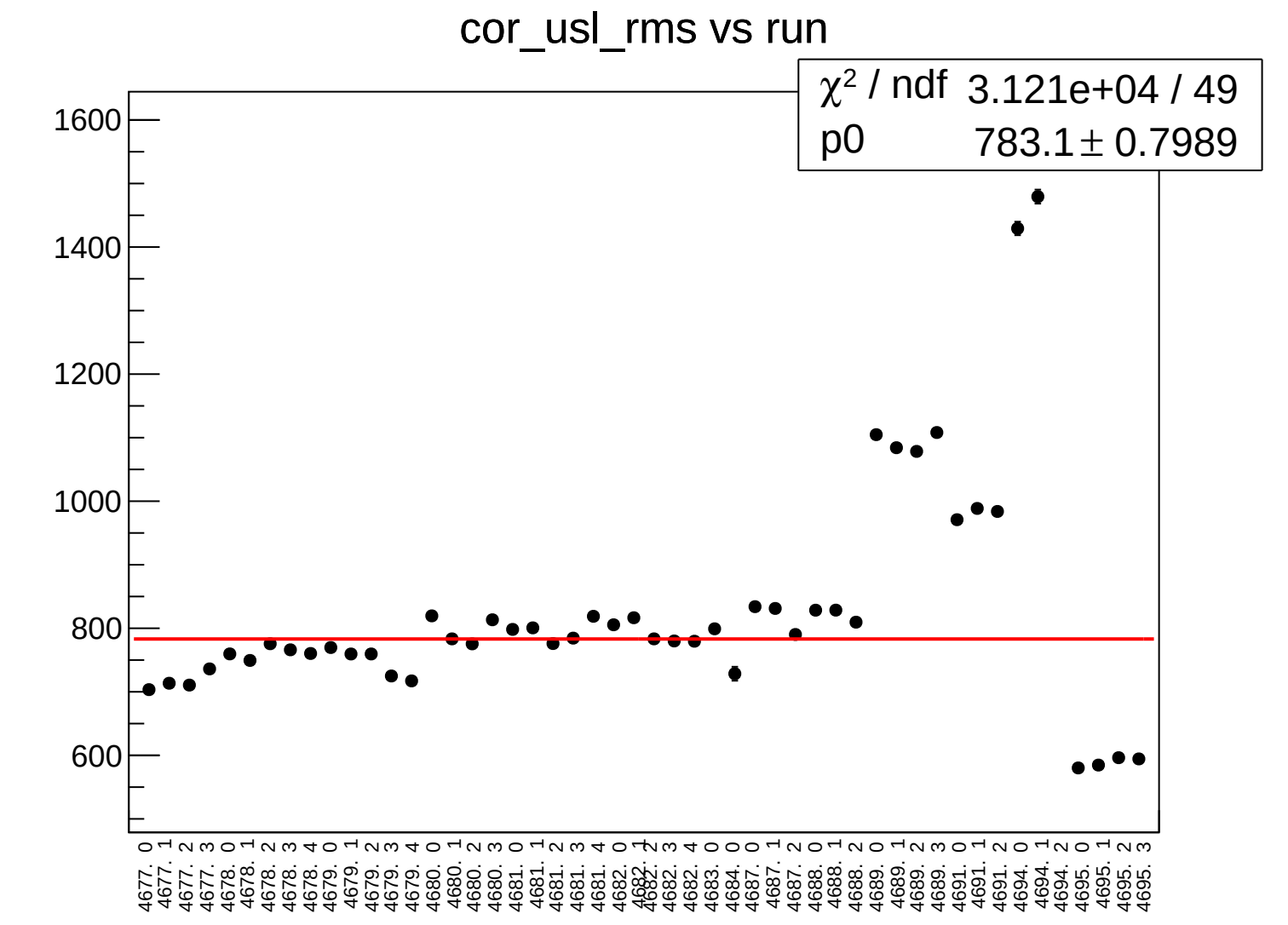

asym_right_dd_mean vs run
χ² / ndf 56.27 / 49
p0 −35.01 ± 131.5
pull
Entries 50
Mean −196
Std Dev 220.8

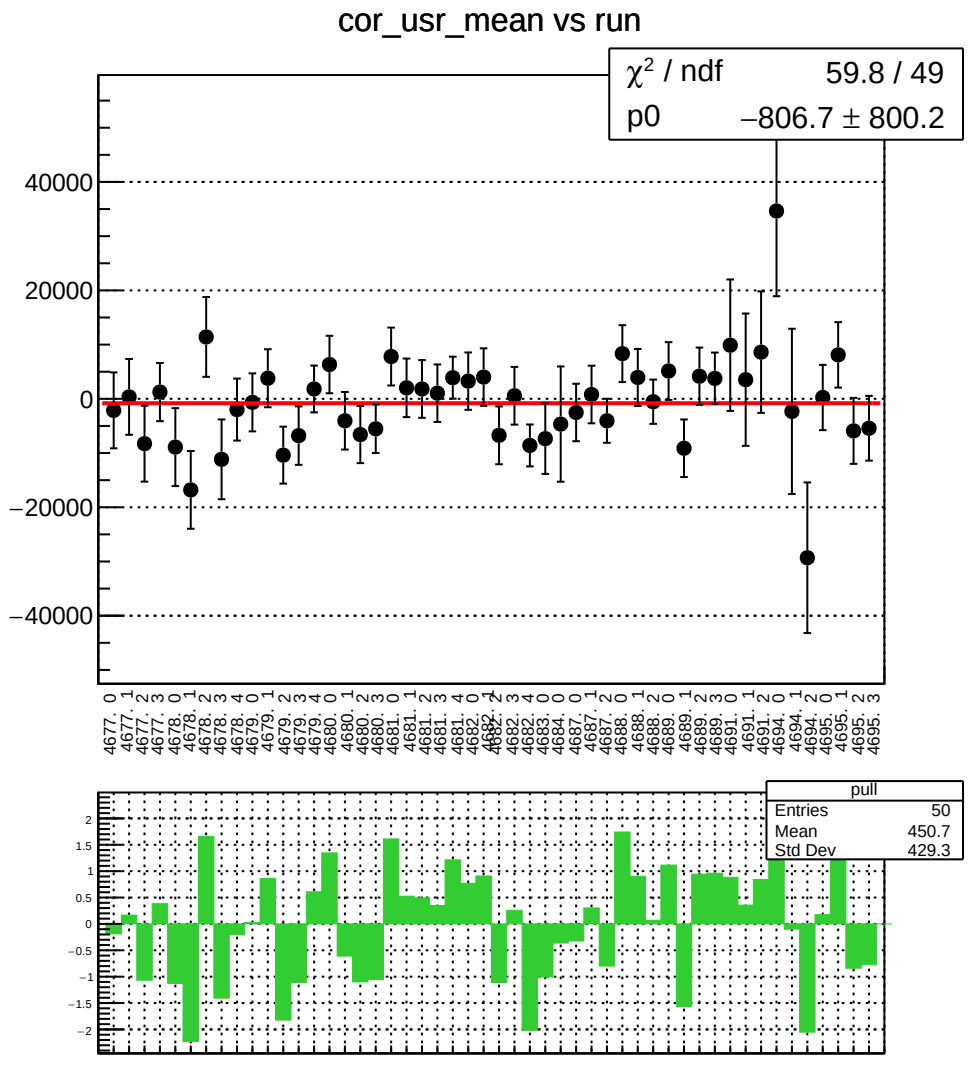

pull1D
Entries 50
Mean −0.02298
Std Dev 1.061

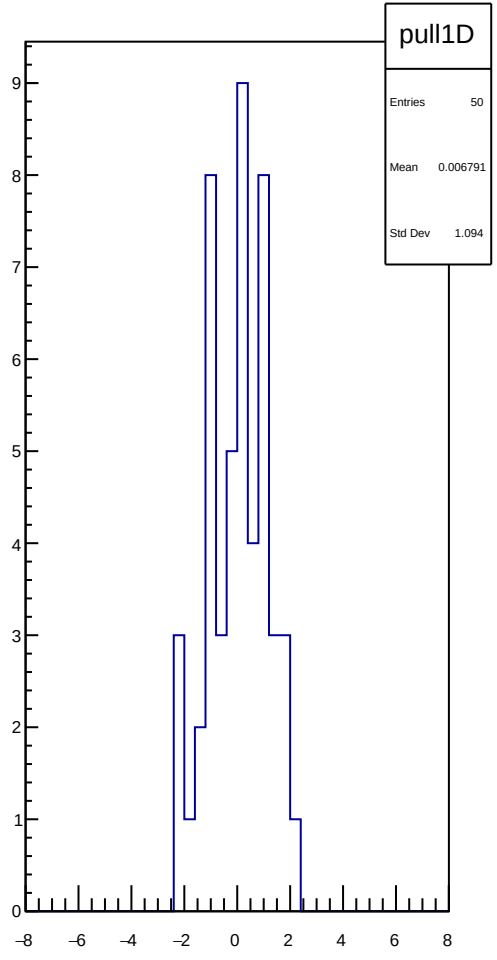

asym_right_dd_rms vs run
χ² / ndf 3.893e+05 / 49
p0 72.18 ± 0.09297
300
250
200
150
100
50
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

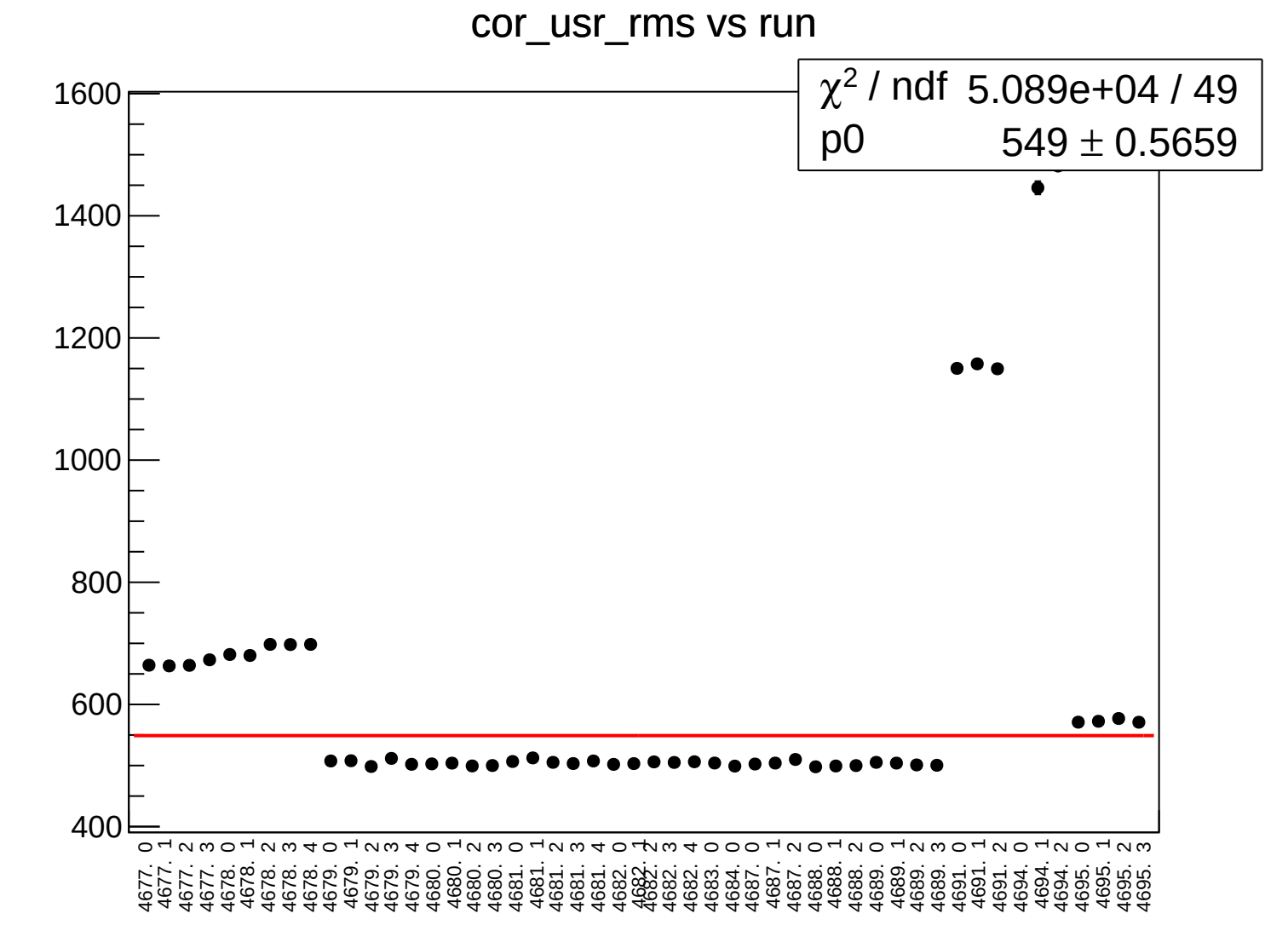

cor_usl_mean vs run
χ² / ndf 62.38 / 49
p0 72.11 ± 1130
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 50
Mean 139.3
Std Dev 114.9
3
2
1
0
−1
−2

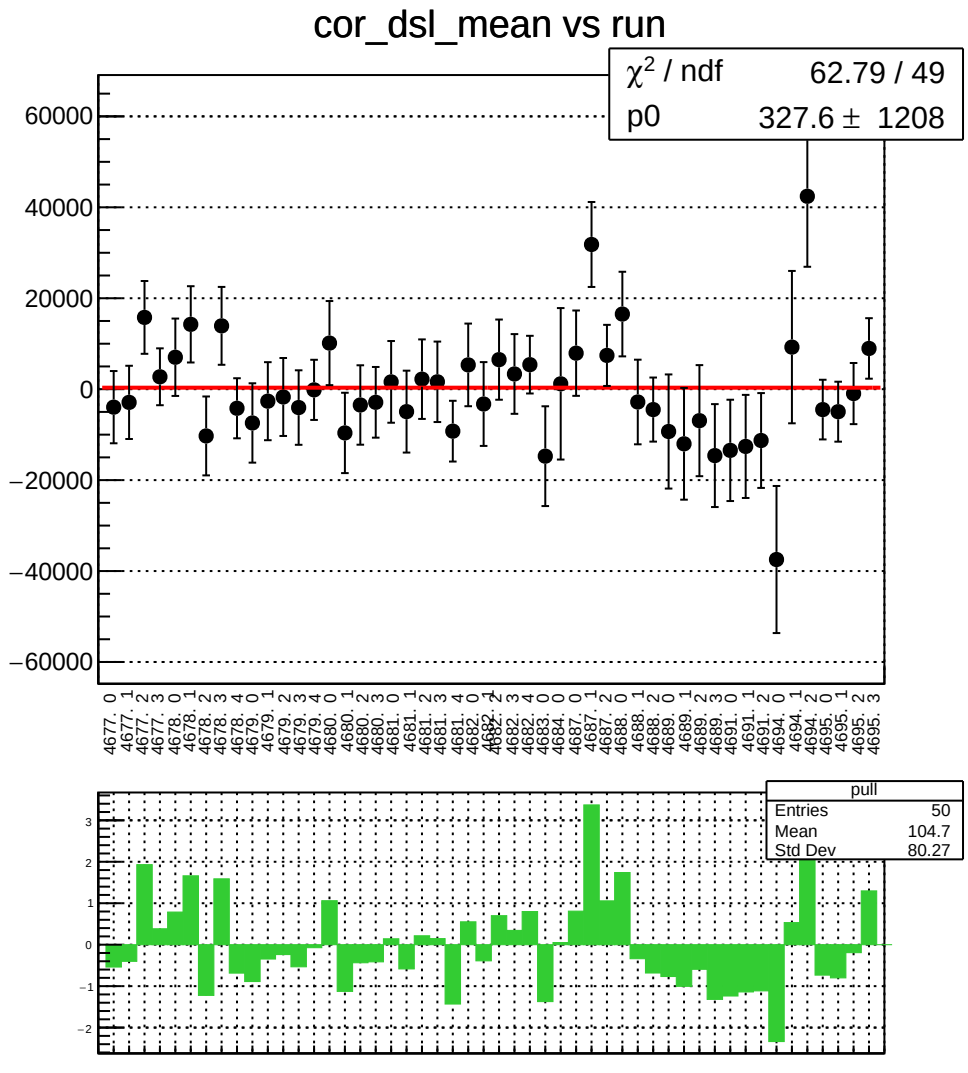

pull1D
Entries 50
Mean −0.01579
Std Dev 1.117
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

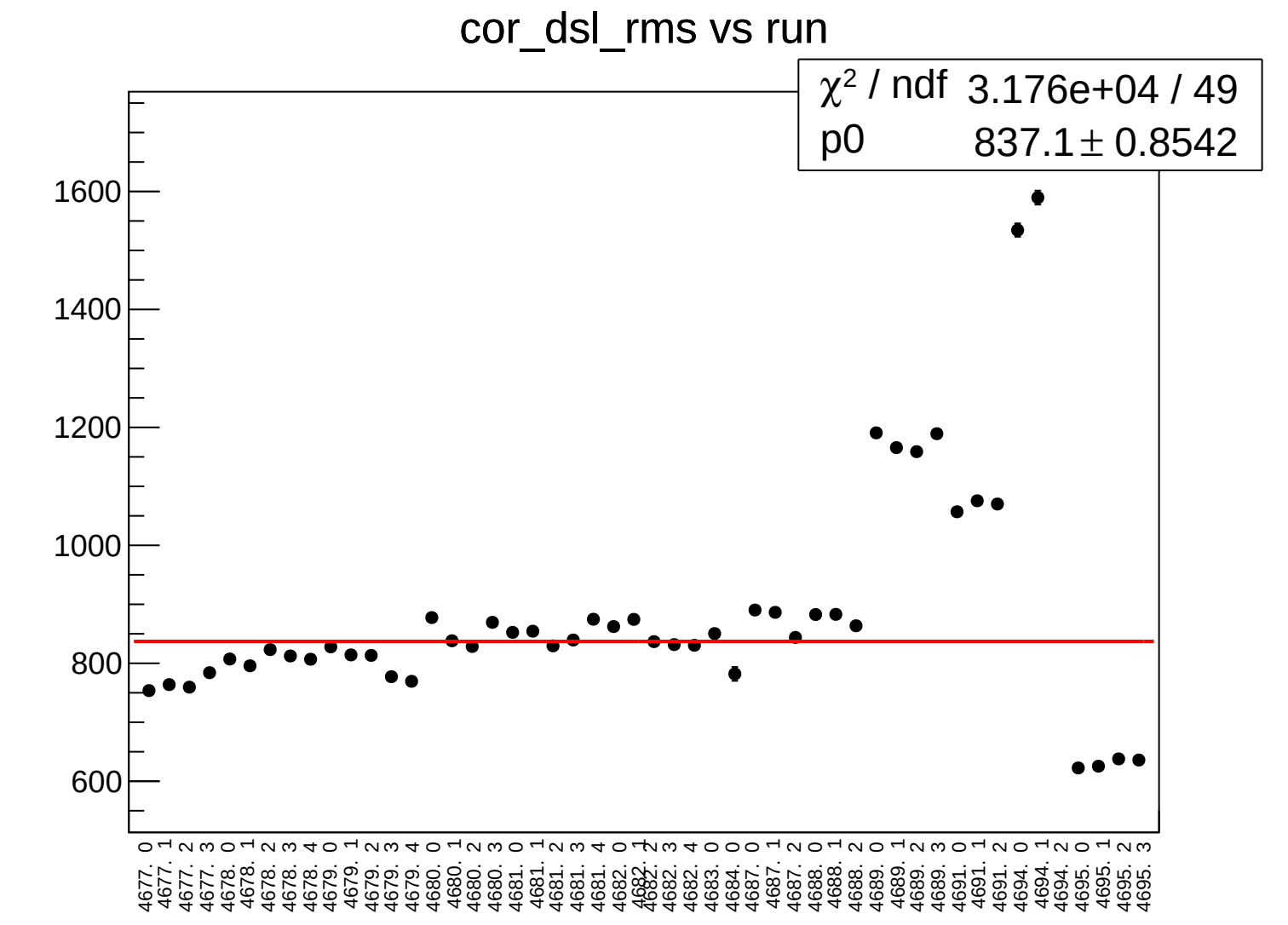

cor_usl_rms vs run
χ² / ndf 3.121e+04 / 49
p0 783.1 ± 0.7989
1600
1400
1200
1000
800
600
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

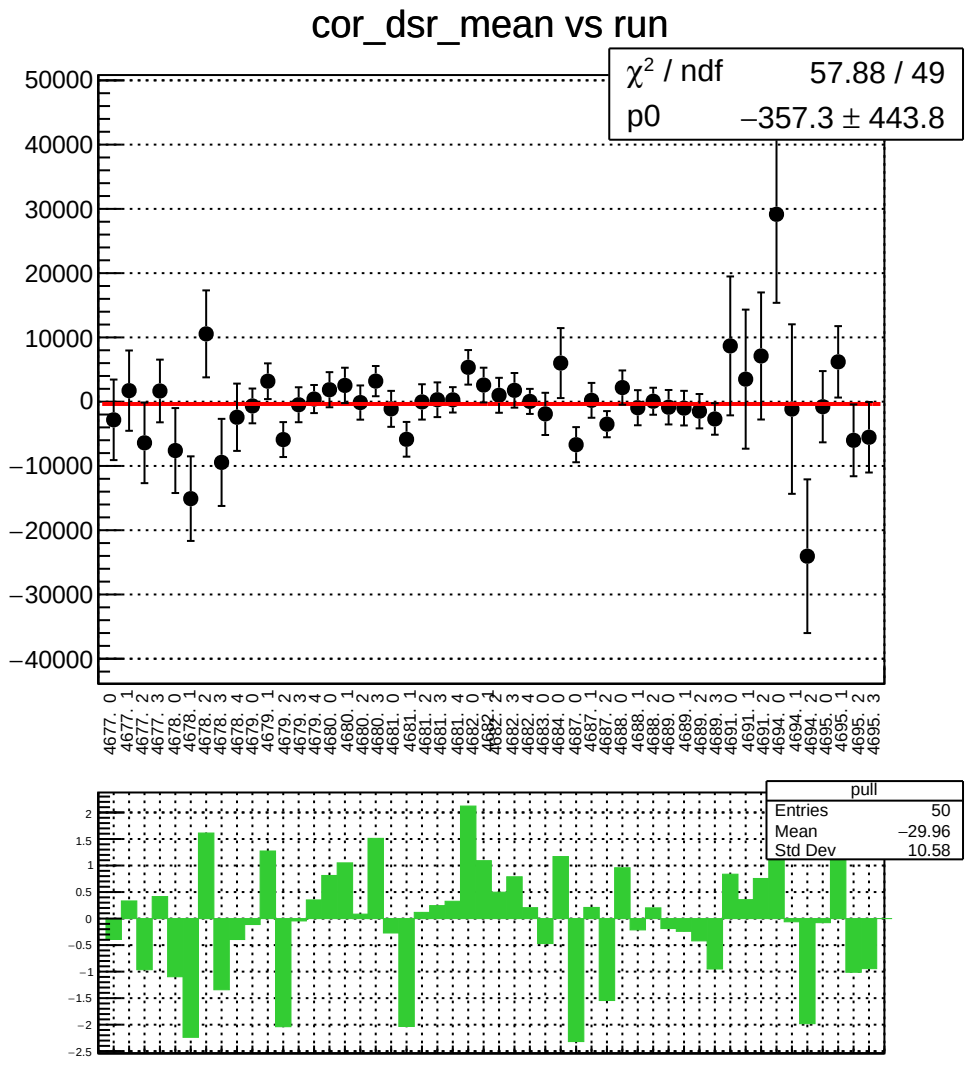

cor_usr_mean vs run
χ² / ndf 59.8 / 49
p0 −806.7 ± 800.2
40000
20000
0
−20000
−40000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 450.7
Std Dev 429.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

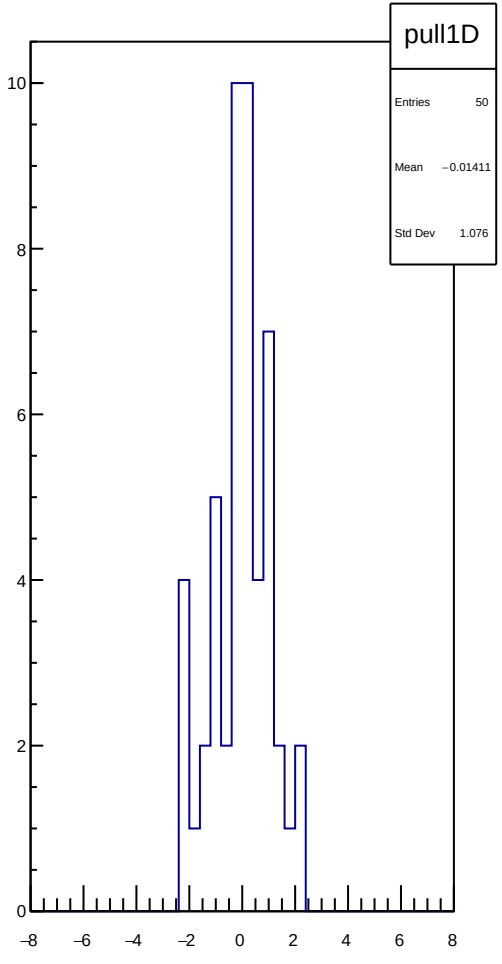

pull1D
Entries 50
Mean 0.006791
Std Dev 1.094
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

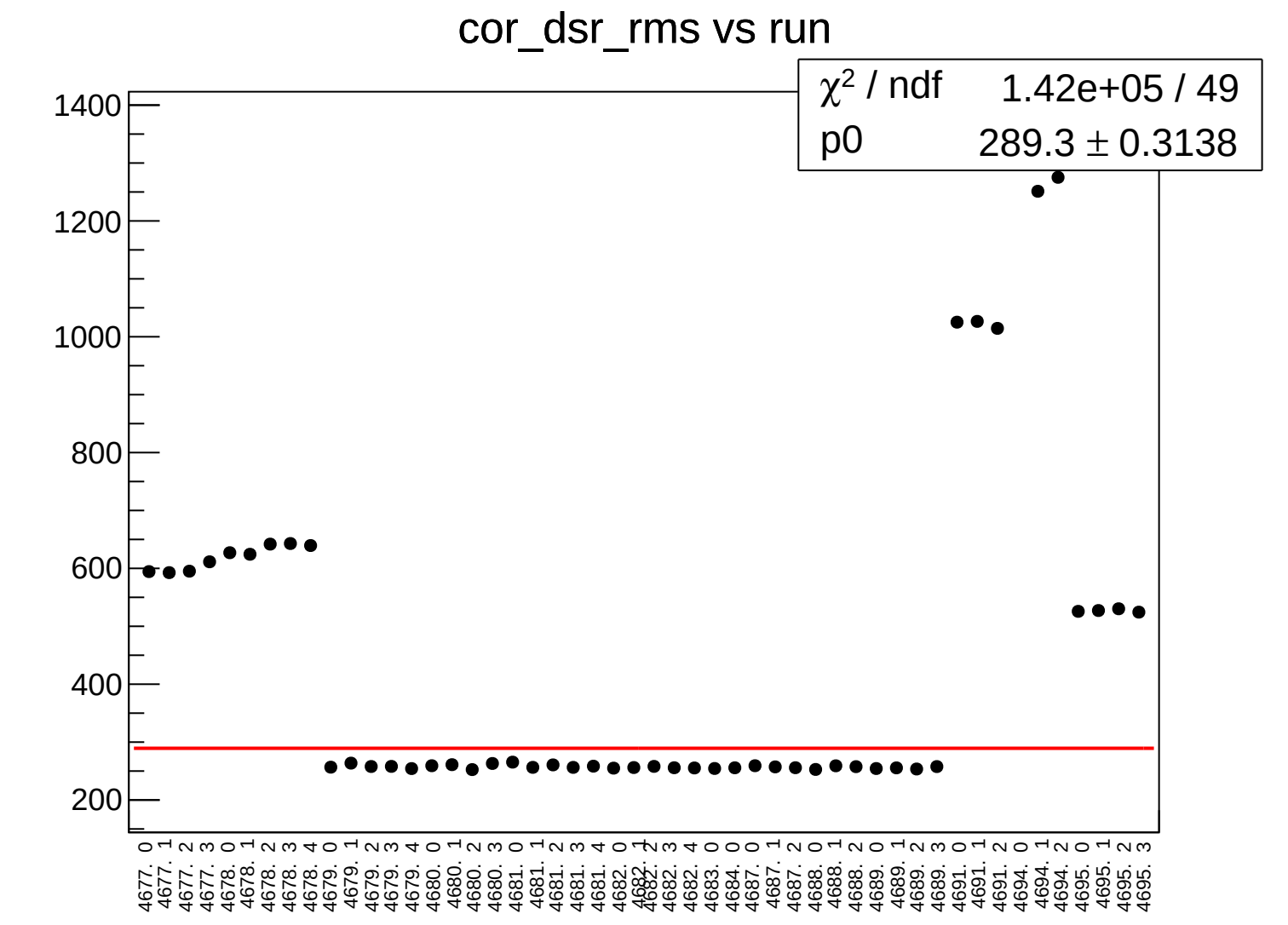

cor_usr_rms vs run
χ² / ndf 5.089e+04 / 49
p0 549 ± 0.5659
1600
1400
1200
1000
800
600
400
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

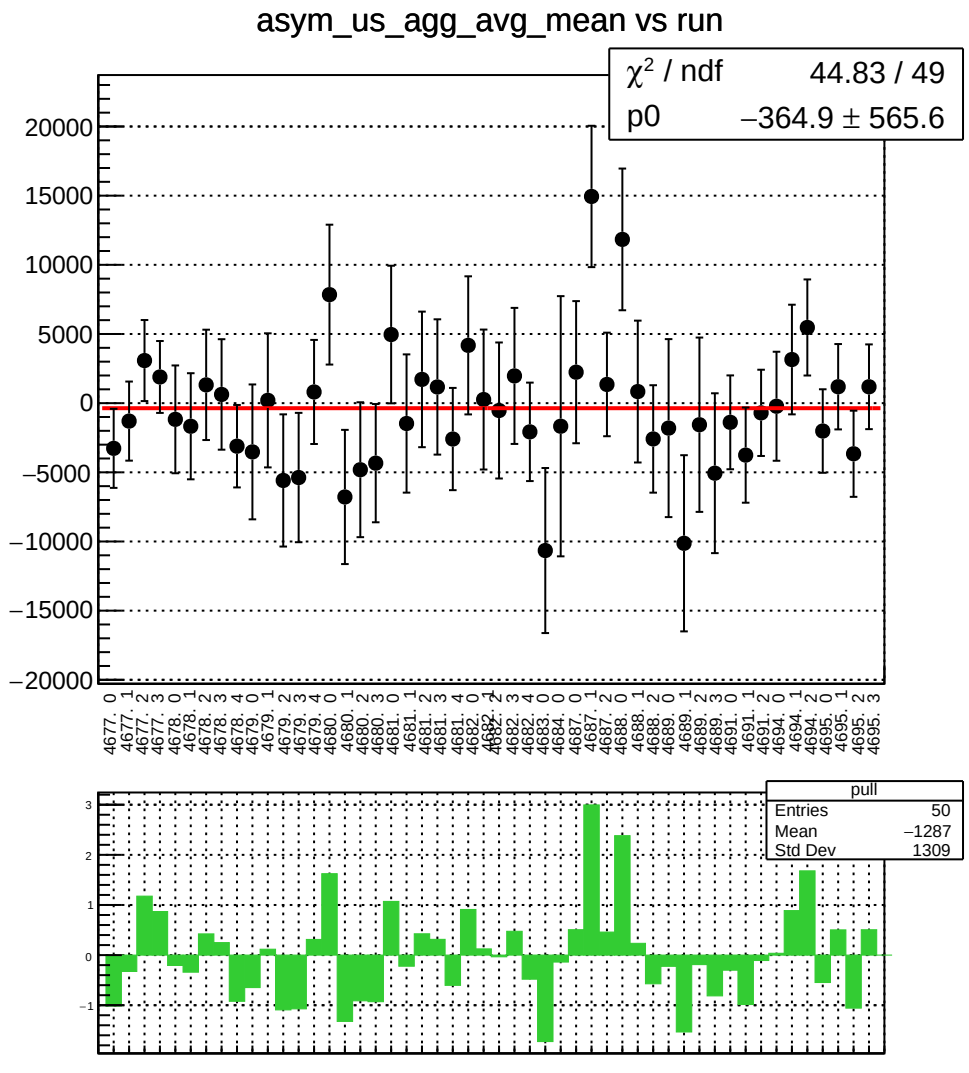

cor_dsl_mean vs run
χ² / ndf 62.79 / 49
p0 327.6 ± 1208
60000
40000
20000
0
−20000
−40000
−60000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 104.7
Std Dev 80.27
3
2
1
0
−1
−2
pull1D
Entries 50
Mean −0.0212
Std Dev 1.12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

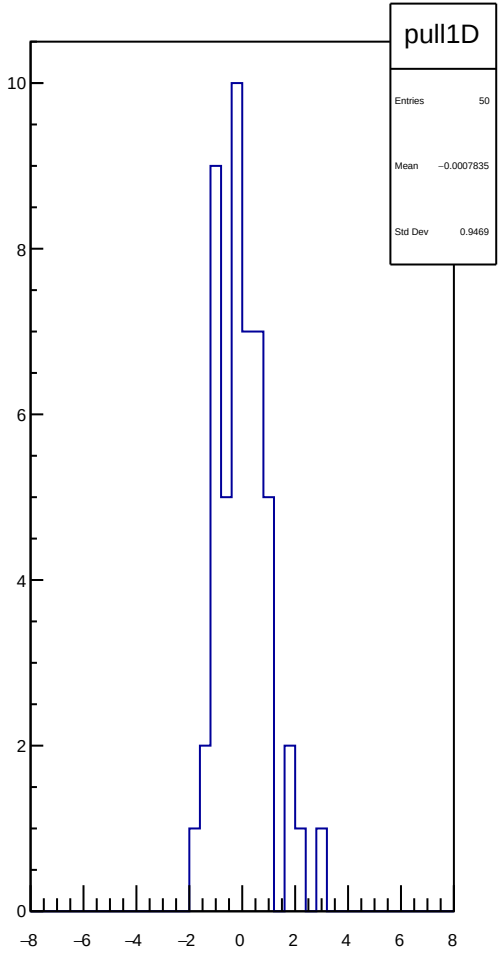

cor_dsl_rms vs run
χ² / ndf 3.176e+04 / 49
p0 837.1 ± 0.8542
1600
1400
1200
1000
800
600
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

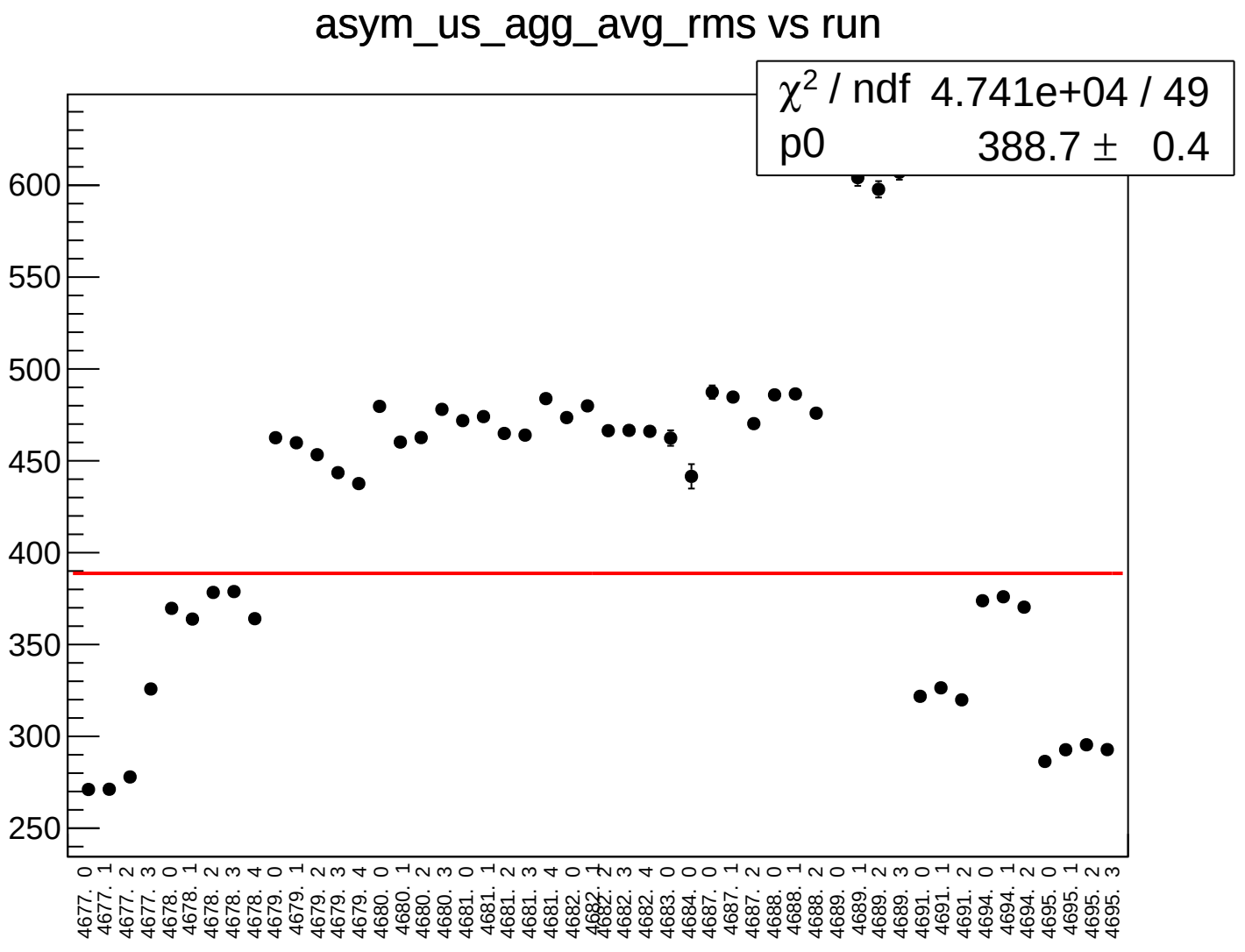

cor_dsr_mean vs run
χ² / ndf 57.88 / 49
p0 −357.3 ± 443.8
pull
Entries 50
Mean −29.96
Std Dev 10.58


pull1D
Entries 50
Mean −0.01411
Std Dev 1.076


cor_dsr_rms vs run
χ² / ndf 1.42e+05 / 49
p0 289.3 ± 0.3138
1400
1200
1000
800
600
400
200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_us_agg_avg_mean vs run
χ² / ndf 44.83 / 49
p0 −364.9 ± 565.6
pull
Entries 50
Mean −1287
Std Dev 1309


pull1D
Entries 50
Mean −0.0007835
Std Dev 0.9469


asym_us_agg_avg_rms vs run
χ² / ndf 4.741e+04 / 49
p0 388.7 ± 0.4
600
550
500
450
400
350
300
250
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4691. 2
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4694. 1
4694. 2
4695. 0
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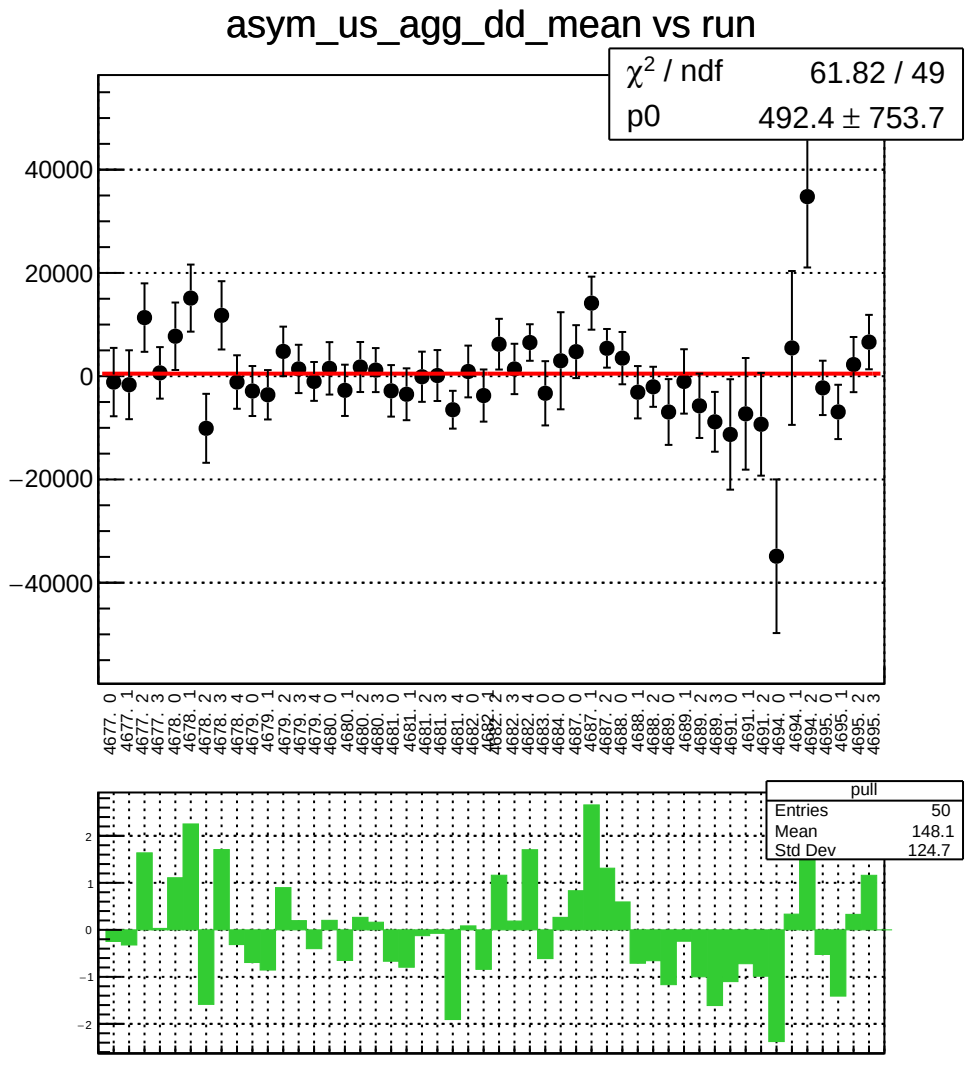
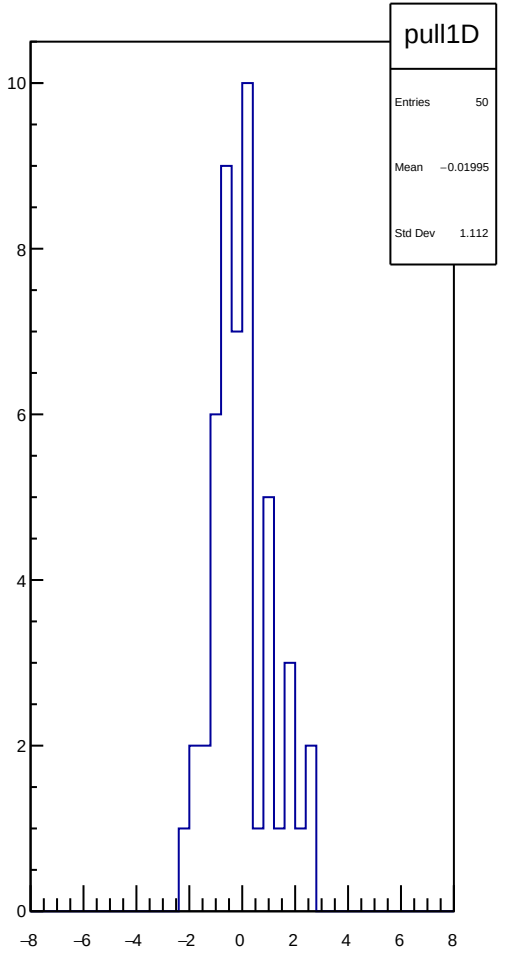
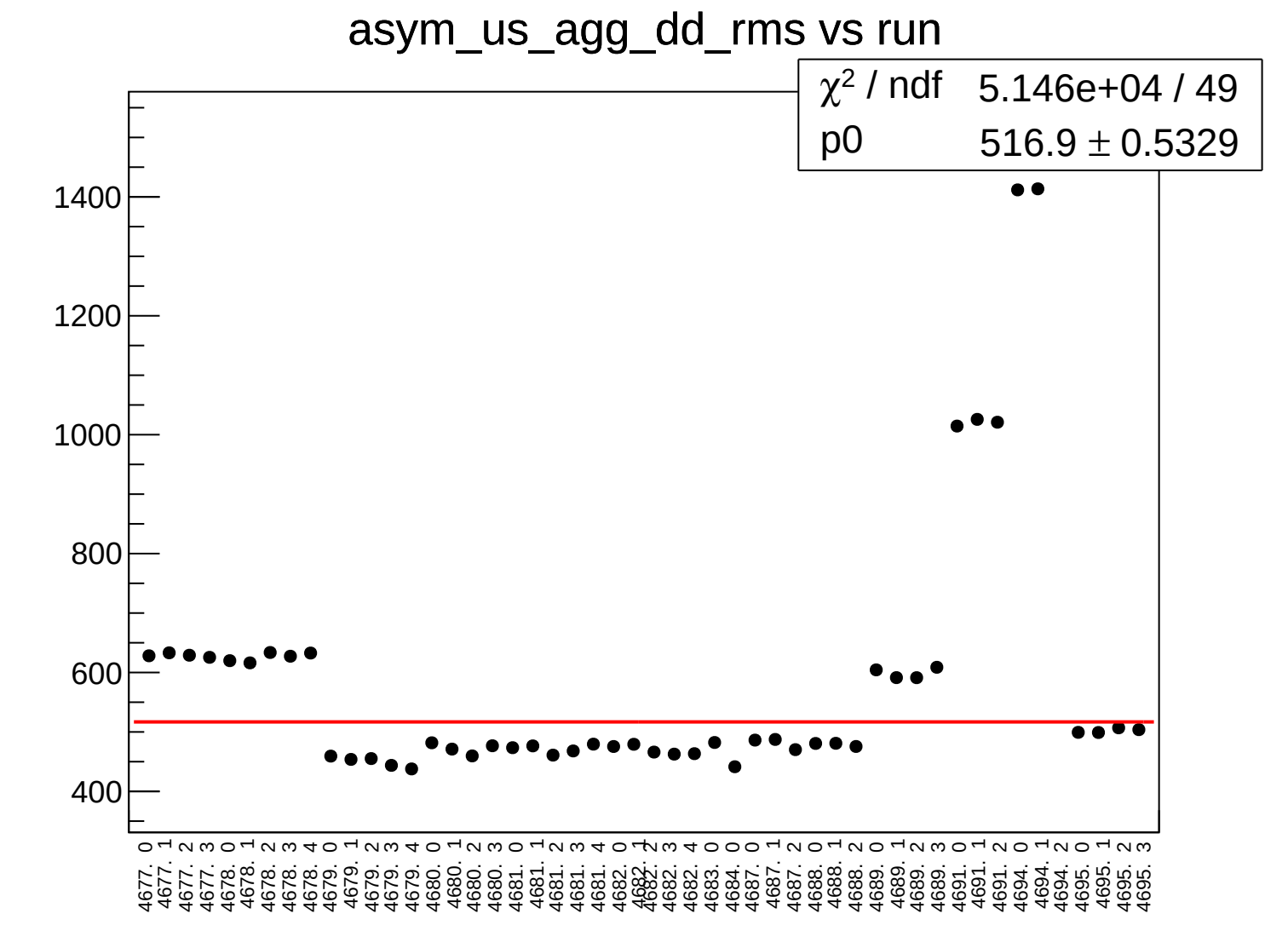
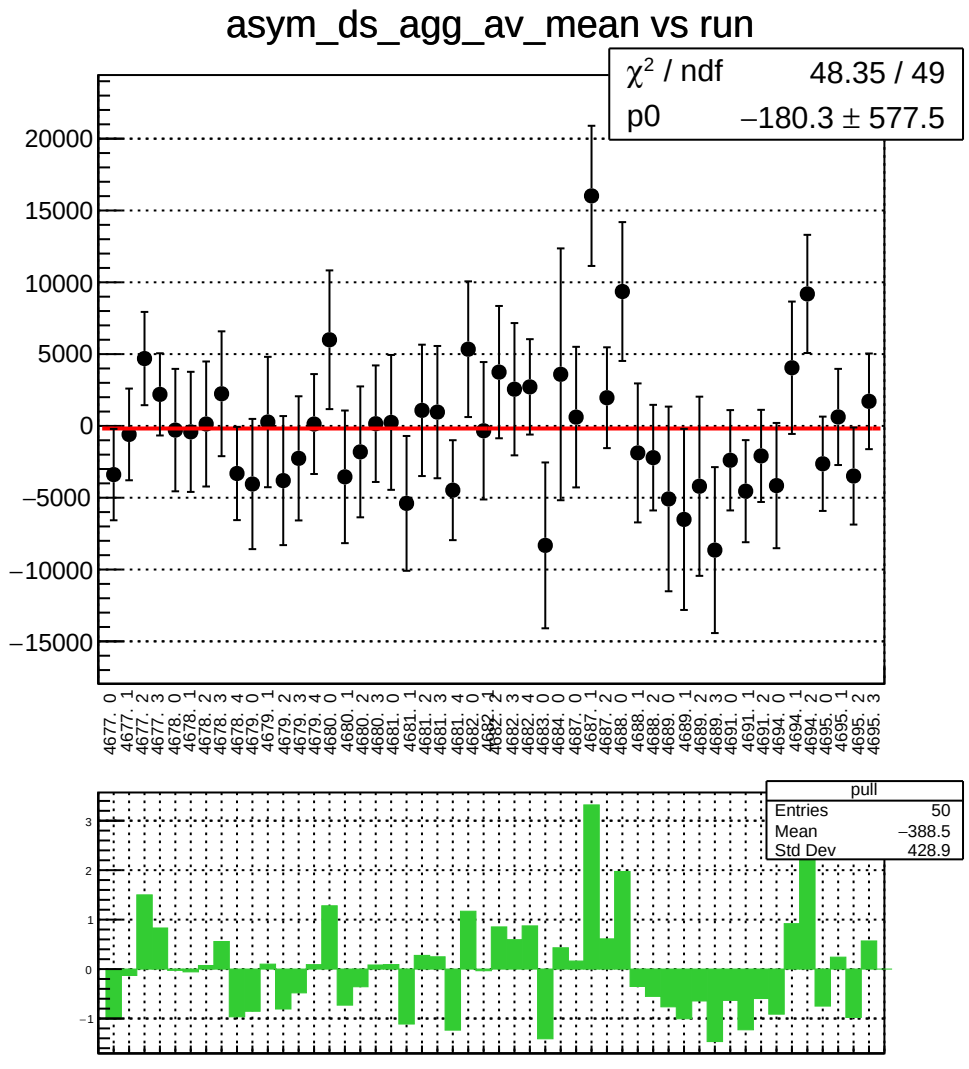
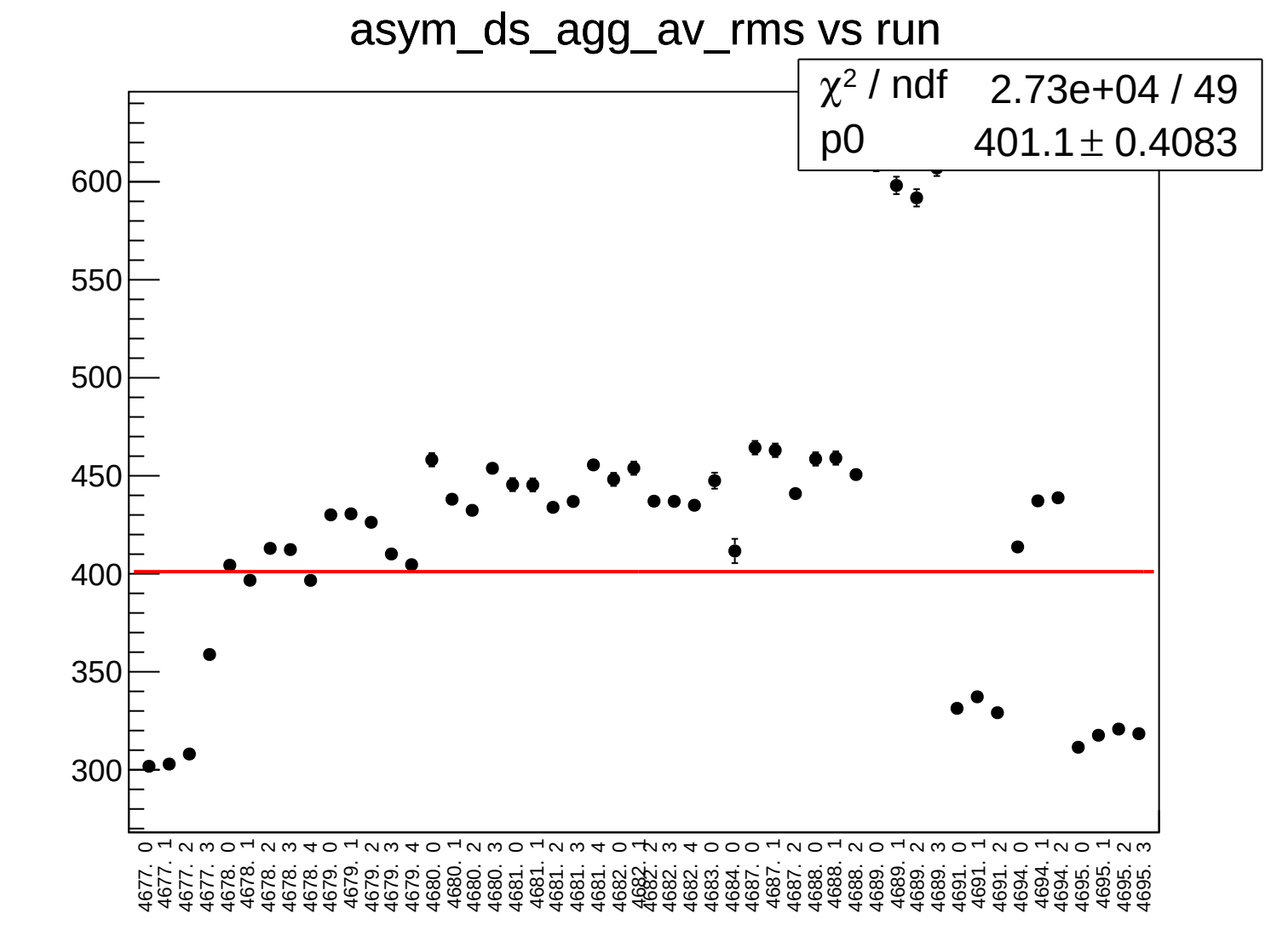
4695. 3


asym_us_agg_dd_mean vs run
χ² / ndf 61.82 / 49
p0 492.4 ± 753.7
40000
20000
0
−20000
−40000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 148.1
Std Dev 124.7
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.01995
Std Dev 1.112
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_agg_dd_rms vs run
χ² / ndf 5.146e+04 / 49
p0 516.9 ± 0.5329
1400
1200
1000
800
600
400
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_ds_agg_av_mean vs run
χ^2 / ndf 48.35 / 49
p0 −180.3 ± 577.5
20000
15000
10000
5000
0
−5000
−10000
−15000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean −388.5
Std Dev 428.9
3
2
1
0
−1
pull1D
Entries 50
Mean 0.0008537
Std Dev 0.9833
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_ds_agg_av_rms vs run
χ² / ndf 2.73e+04 / 49
p0 401.1 ± 0.4083
600
550
500
450
400
350
300
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
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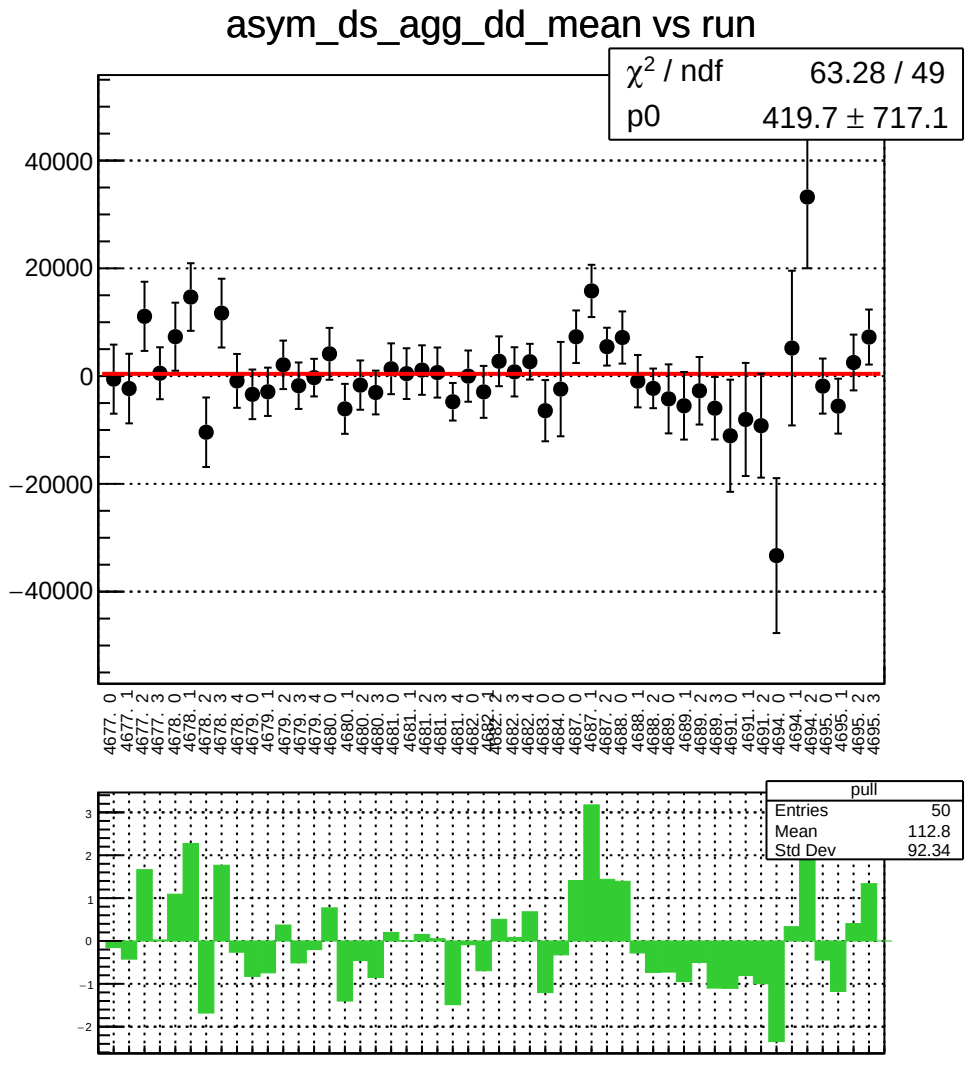
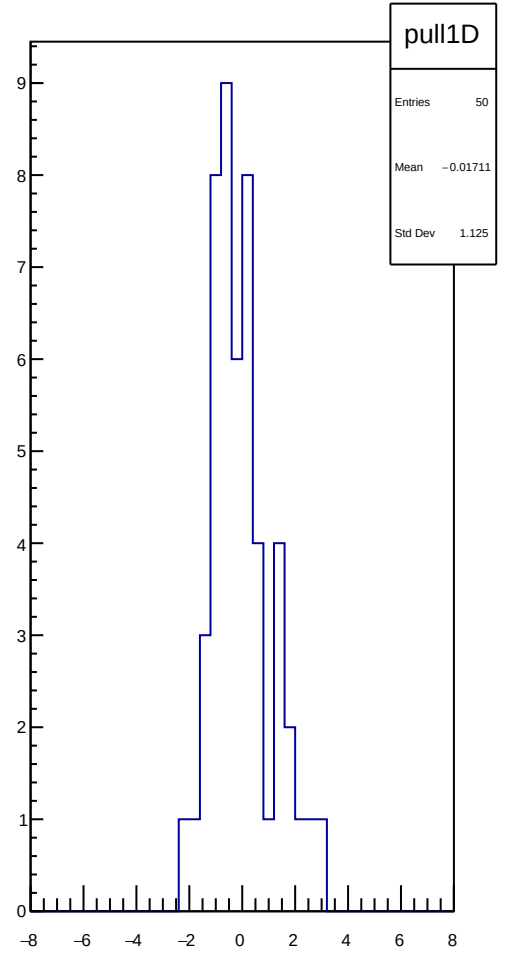
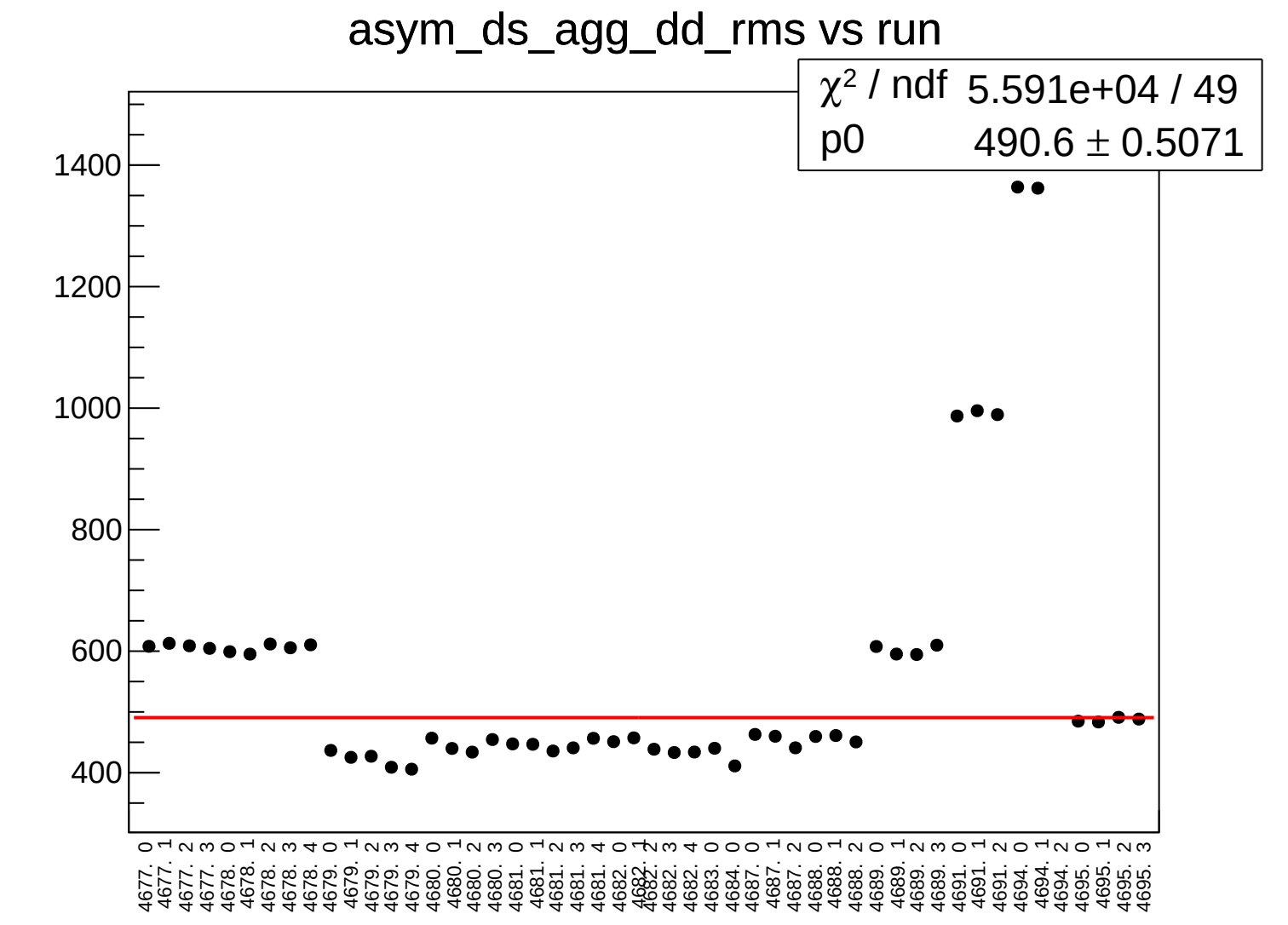
4695. 2
4695. 3


asym_ds_agg_dd_mean vs run
χ² / ndf 63.28 / 49
p0 419.7 ± 717.1
40000
20000
0
−20000
−40000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 112.8
Std Dev 92.34
3
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.01711
Std Dev 1.125
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_ds_agg_dd_rms vs run
χ² / ndf 5.591e+04 / 49
p0 490.6 ± 0.5071
1400
1200
1000
800
600
400
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
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4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4691. 2
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4694. 2
4695. 0
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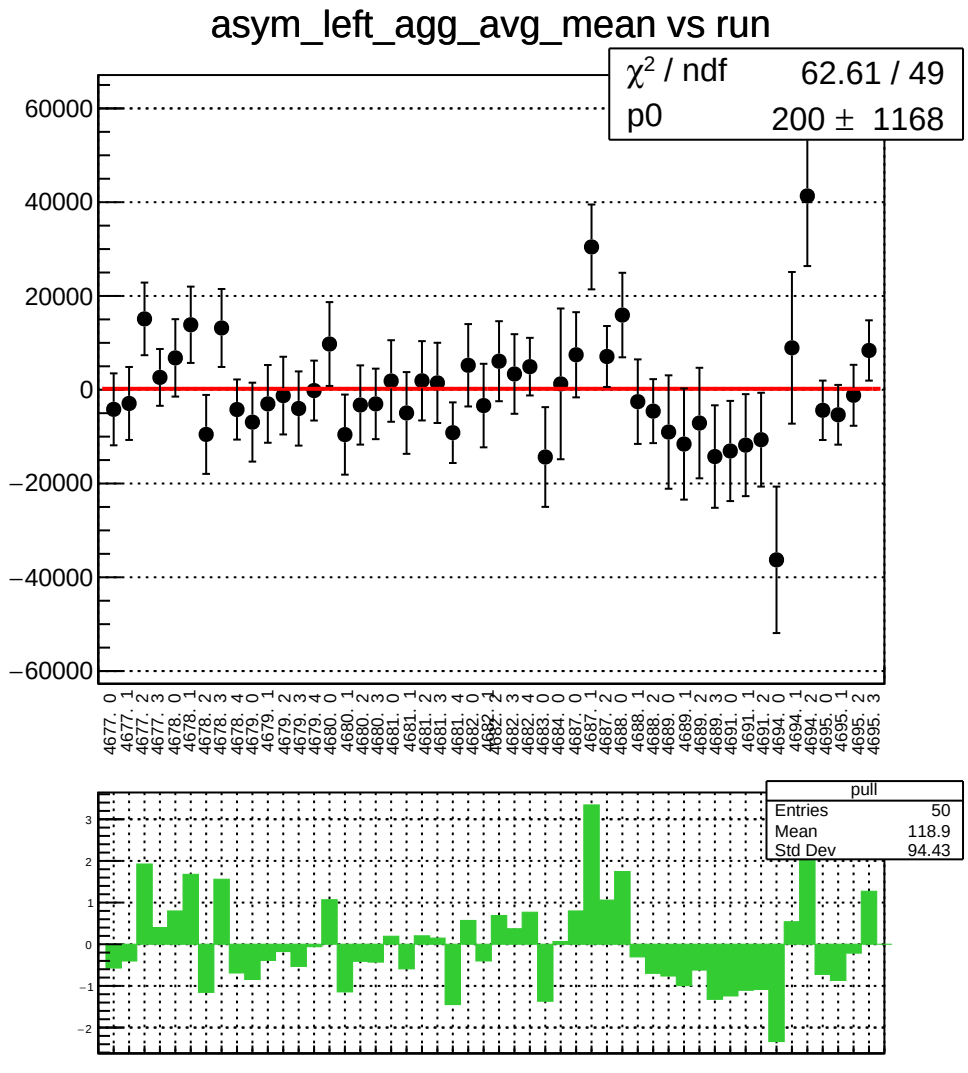
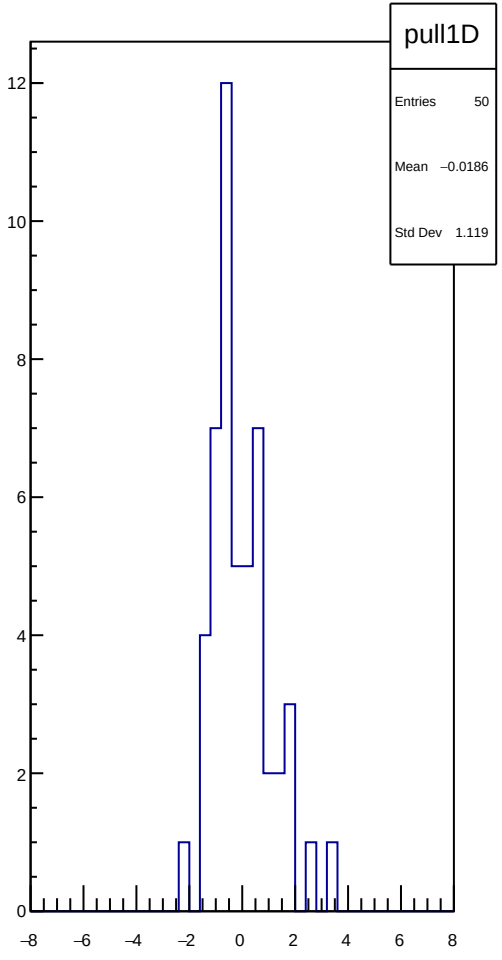
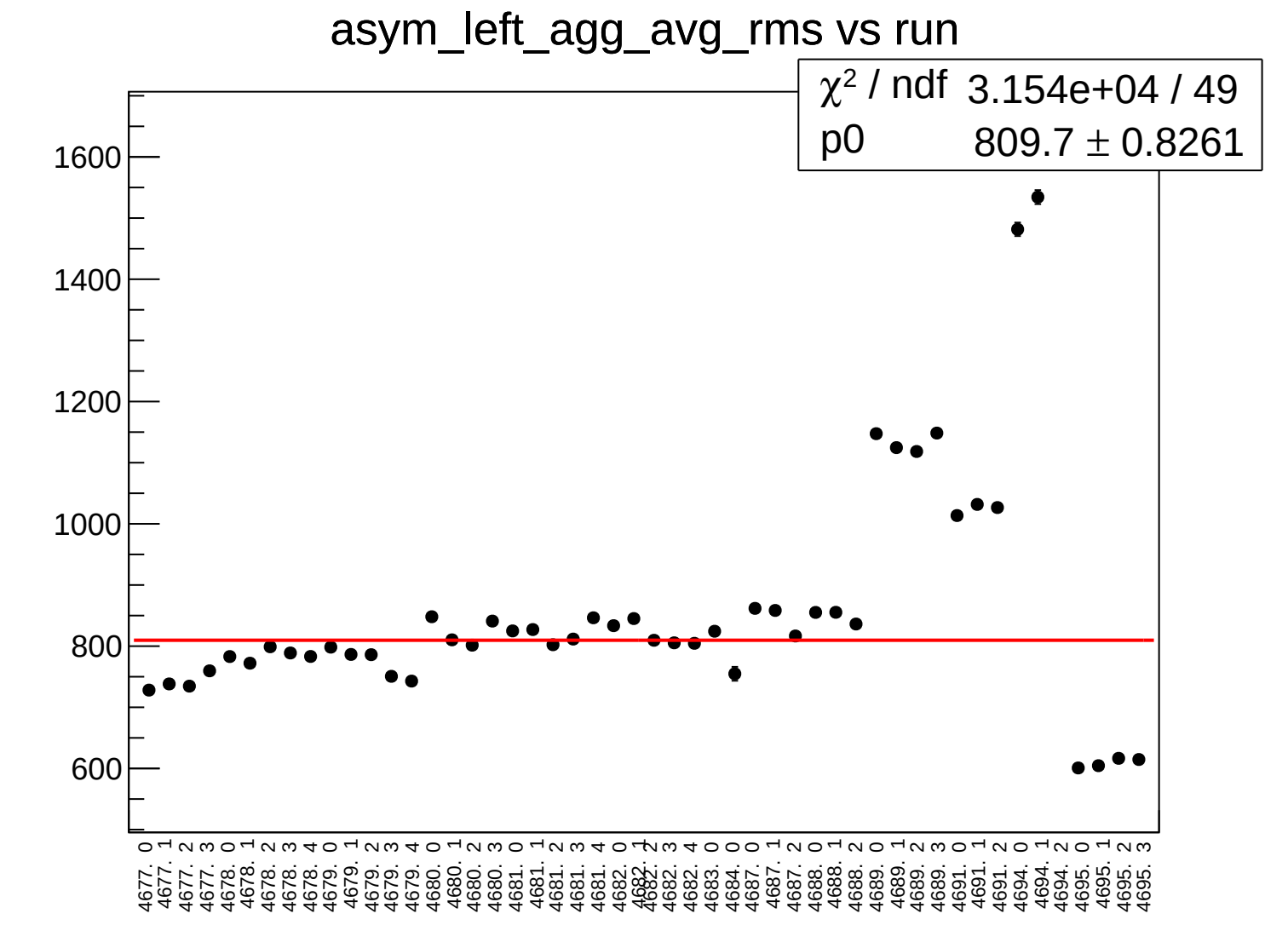
4695. 2
4695. 3


asym_left_agg_avg_mean vs run
χ² / ndf 62.61 / 49
p0 200 ± 1168
pull
Entries 50
Mean 118.9
Std Dev 94.43


pull1D
Entries 50
Mean −0.0186
Std Dev 1.119


asym_left_agg_avg_rms vs run
χ² / ndf 3.154e+04 / 49
p0 809.7 ± 0.8261
1600
1400
1200
1000
800
600
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4691. 2
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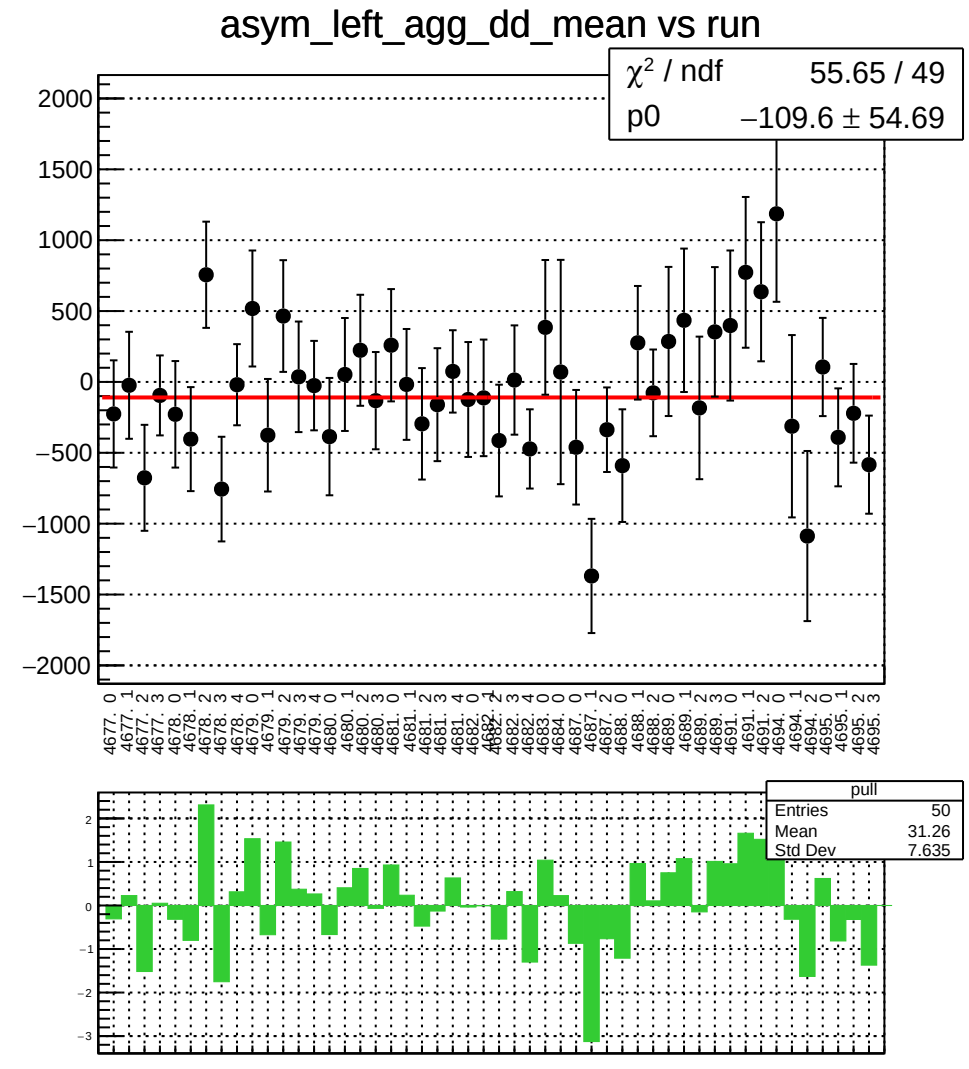
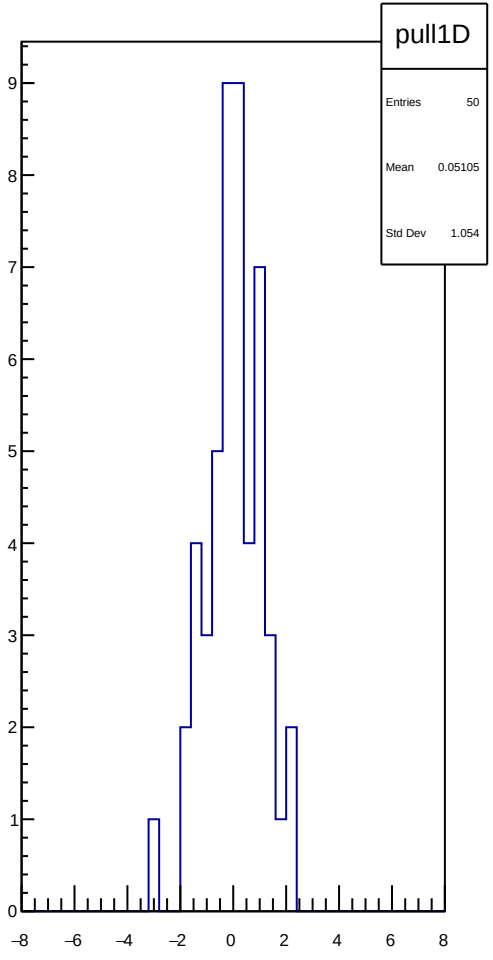
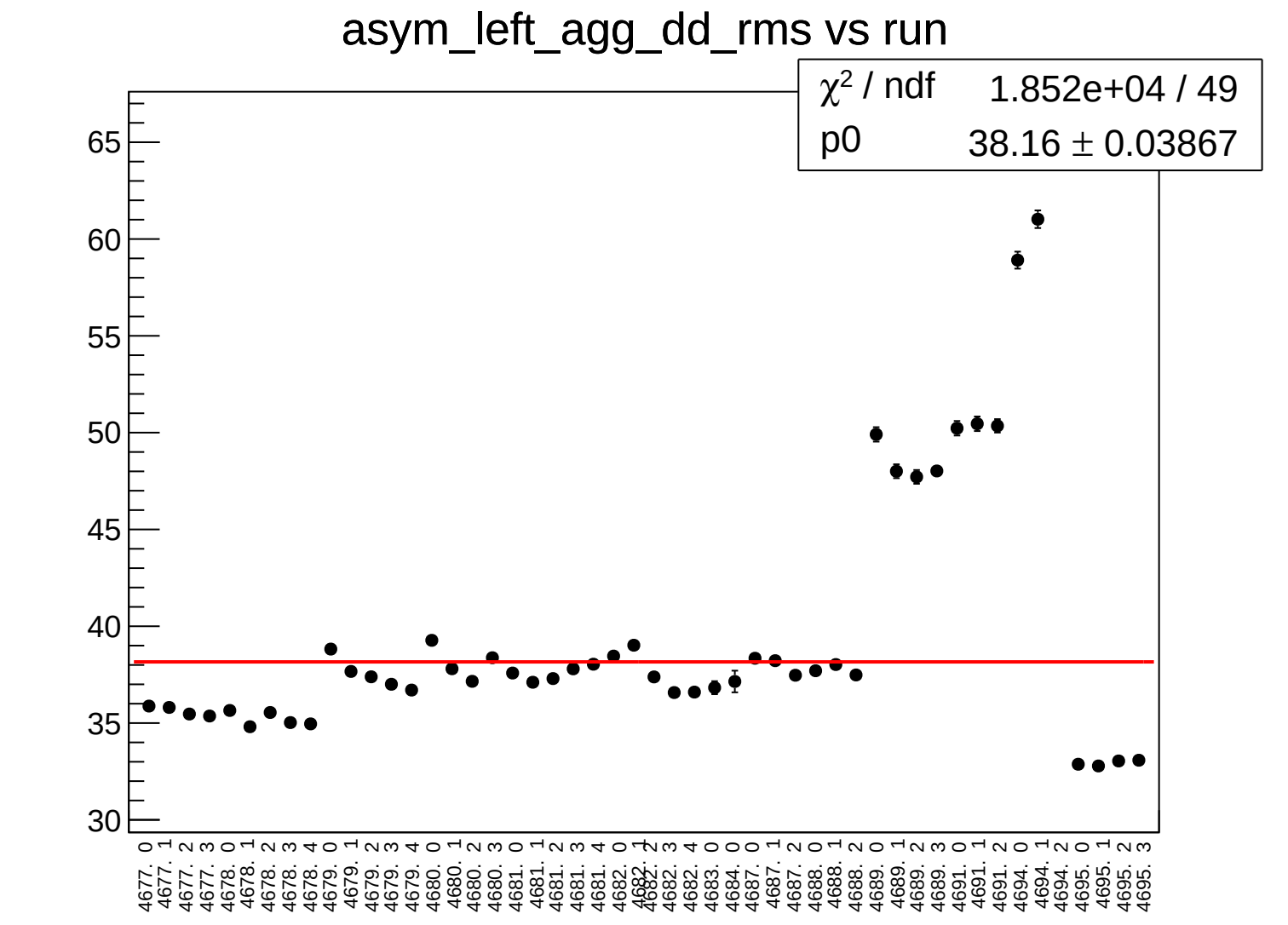
4695. 2
4695. 3


asym_left_agg_dd_mean vs run
χ² / ndf 55.65 / 49
p0 −109.6 ± 54.69
pull
Entries 50
Mean 31.26
Std Dev 7.635


pull1D
Entries 50
Mean 0.05105
Std Dev 1.054


asym_left_agg_dd_rms vs run
χ^2 / ndf 1.852e+04 / 49
p0 38.16 ± 0.03867
65
60
55
50
45
40
35
30
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4691. 2
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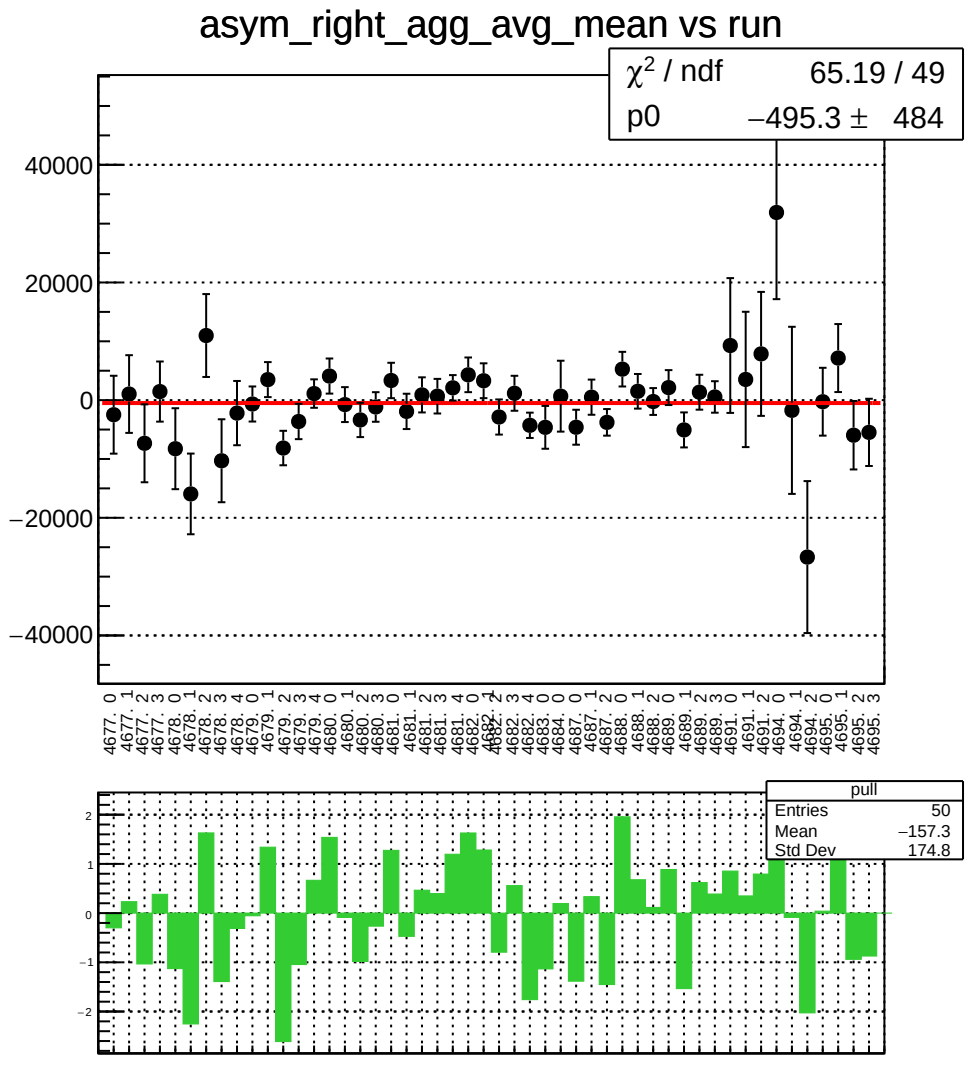
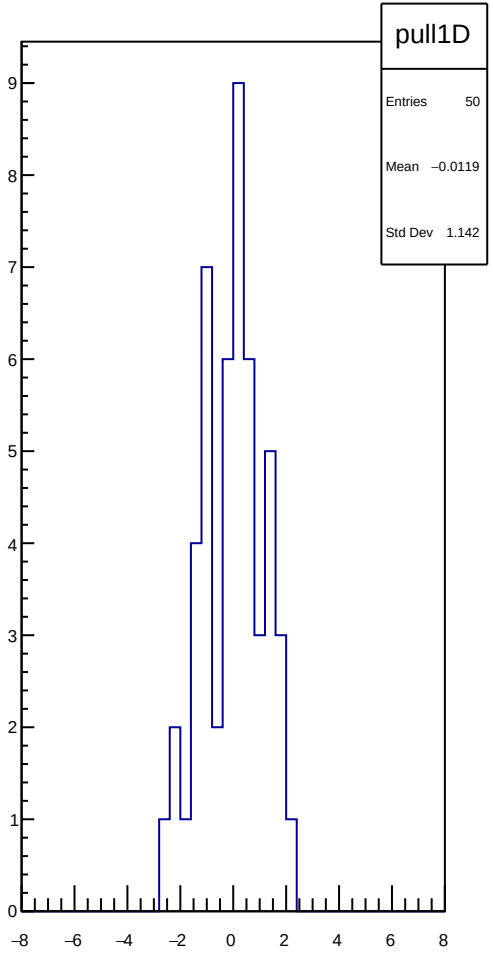
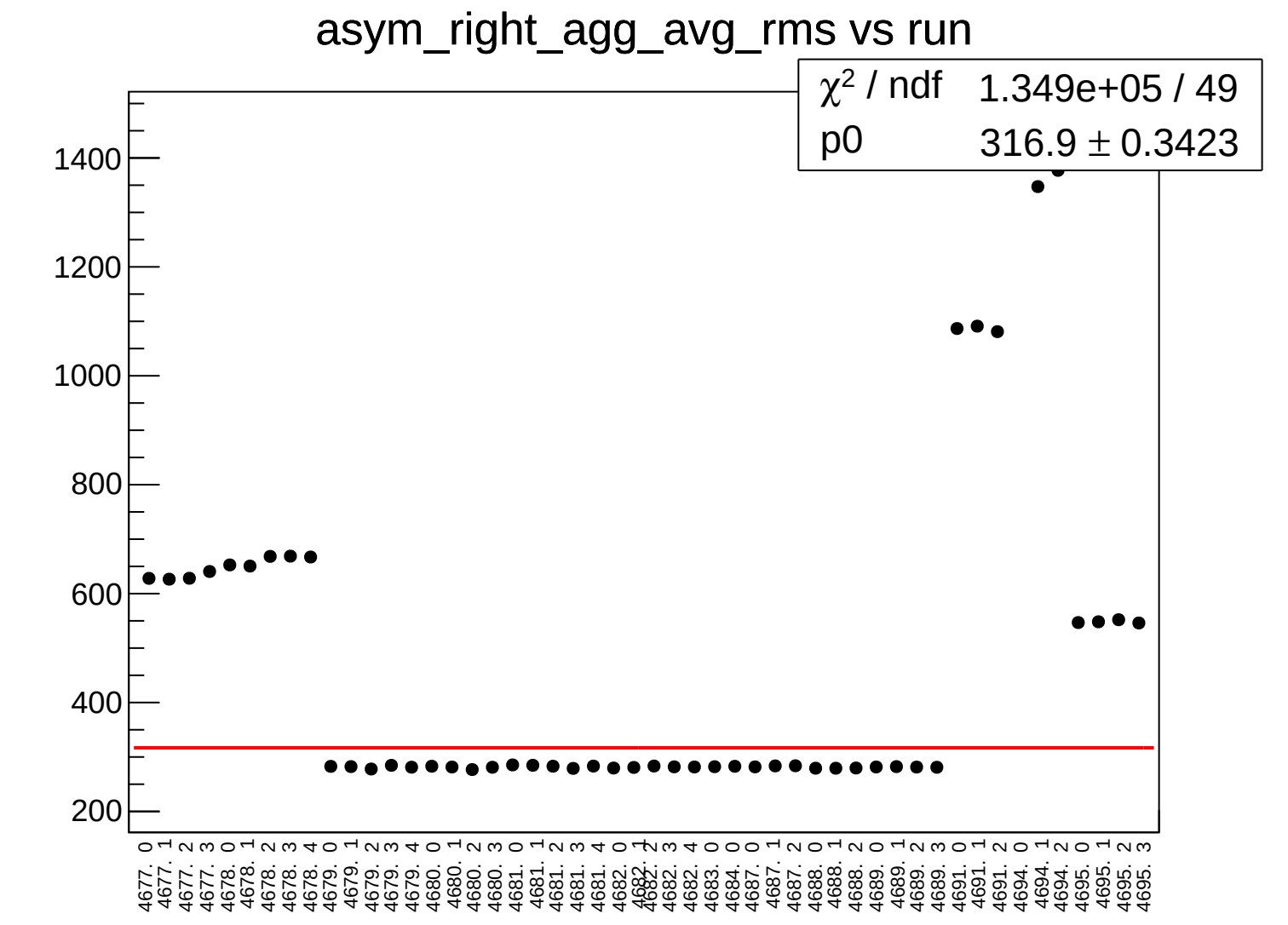
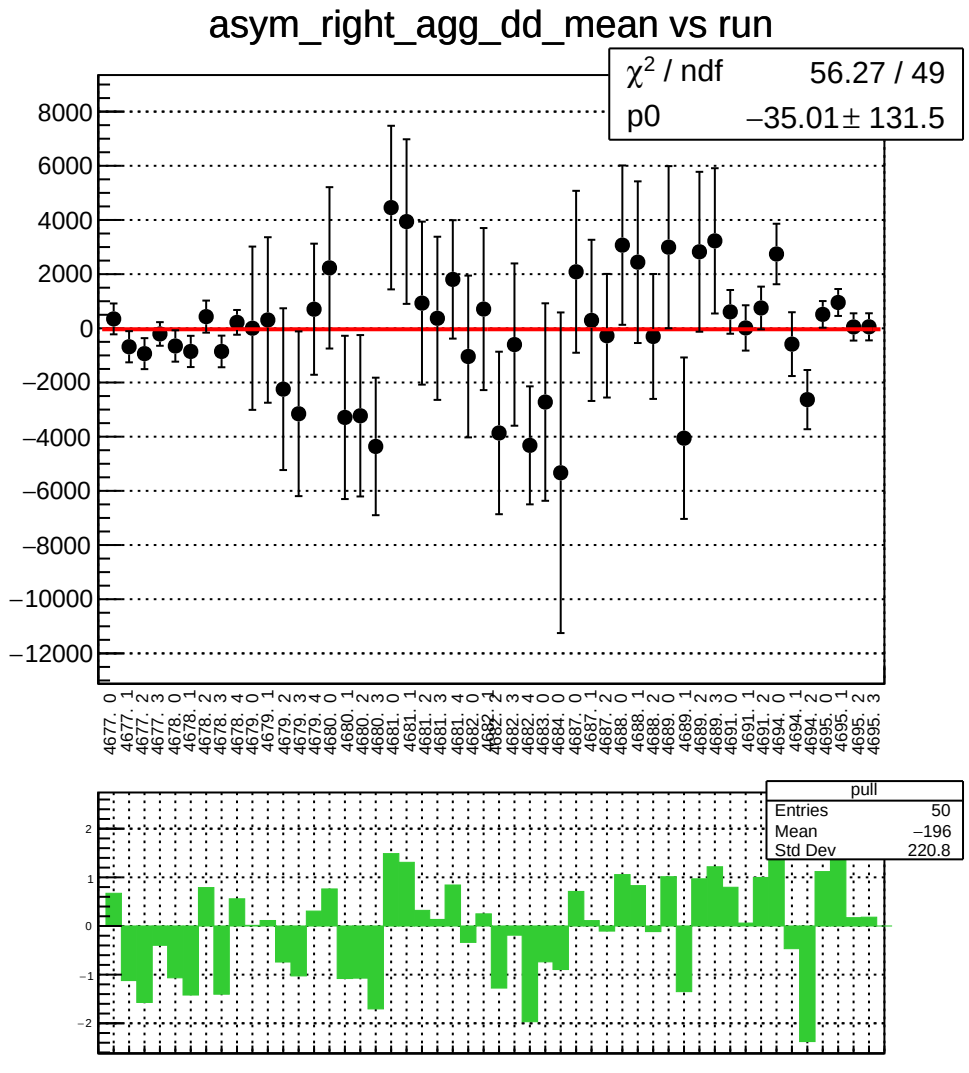
4695. 2
4695. 3


asym_right_agg_avg_mean vs run
χ² / ndf 65.19 / 49
p0 −495.3 ± 484
40000
20000
0
−20000
−40000
pull
Entries 50
Mean −157.3
Std Dev 174.8
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.0119
Std Dev 1.142
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_right_agg_avg_rms vs run
χ² / ndf 1.349e+05 / 49
p0 316.9 ± 0.3423
1400
1200
1000
800
600
400
200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_right_agg_dd_mean vs run
χ² / ndf 56.27 / 49
p0 −35.01 ± 131.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
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4687. 1
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4688. 2
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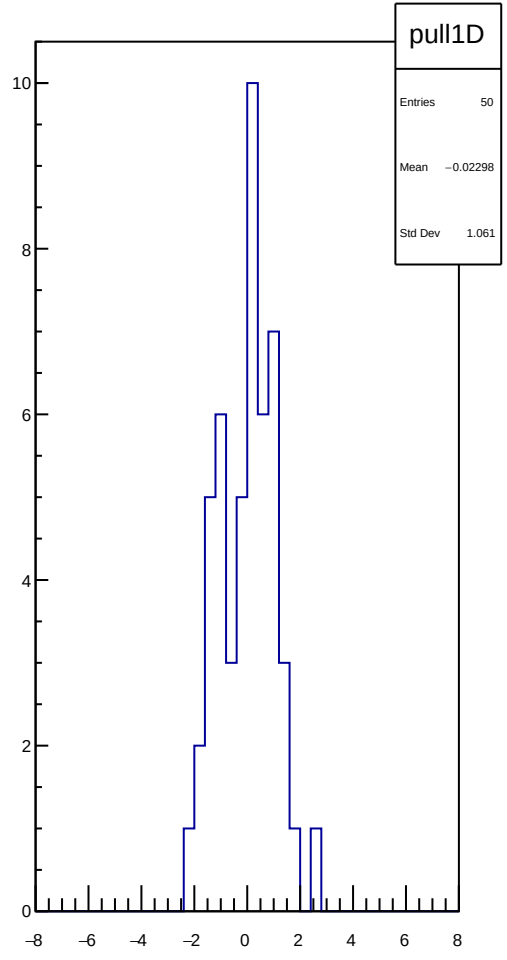
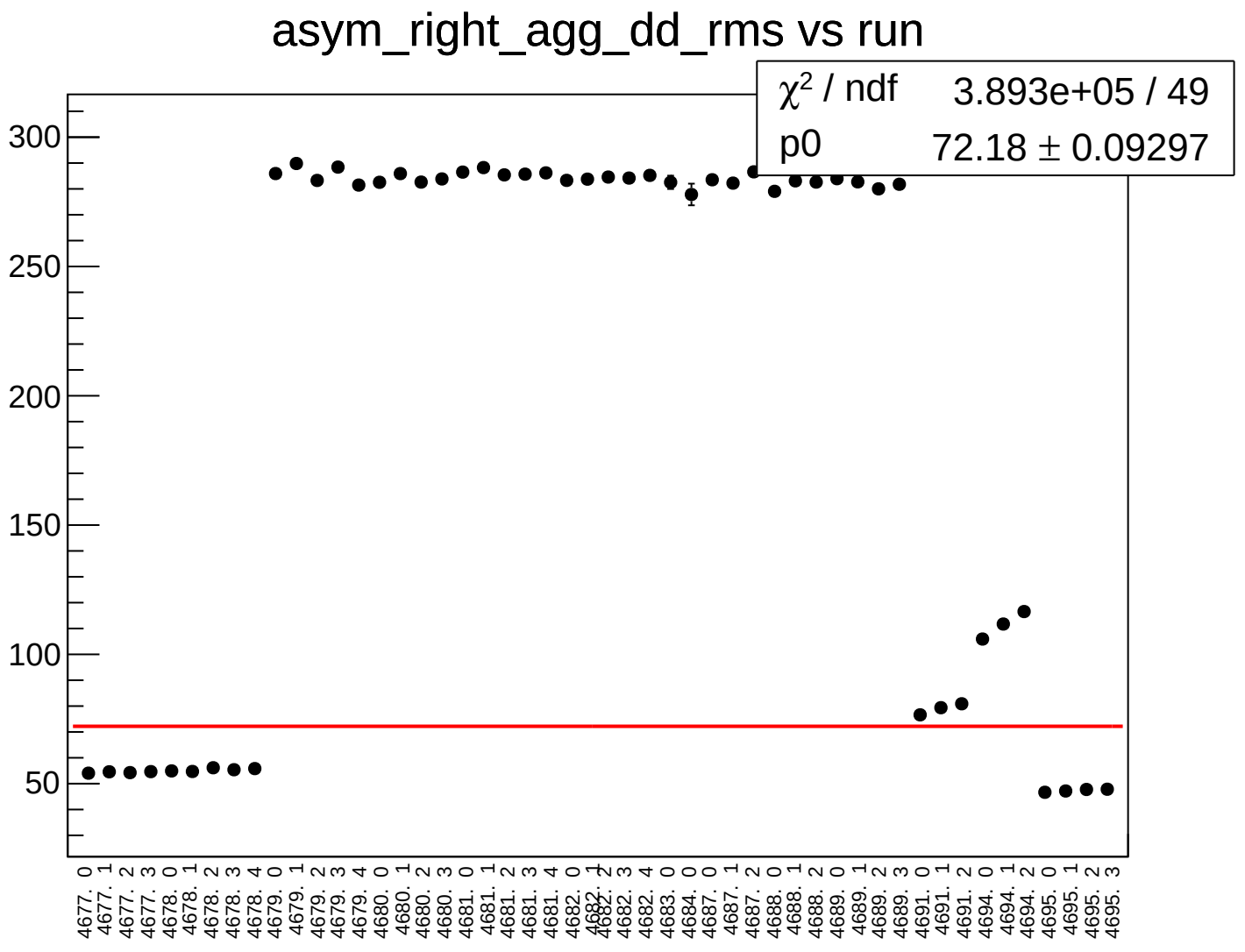
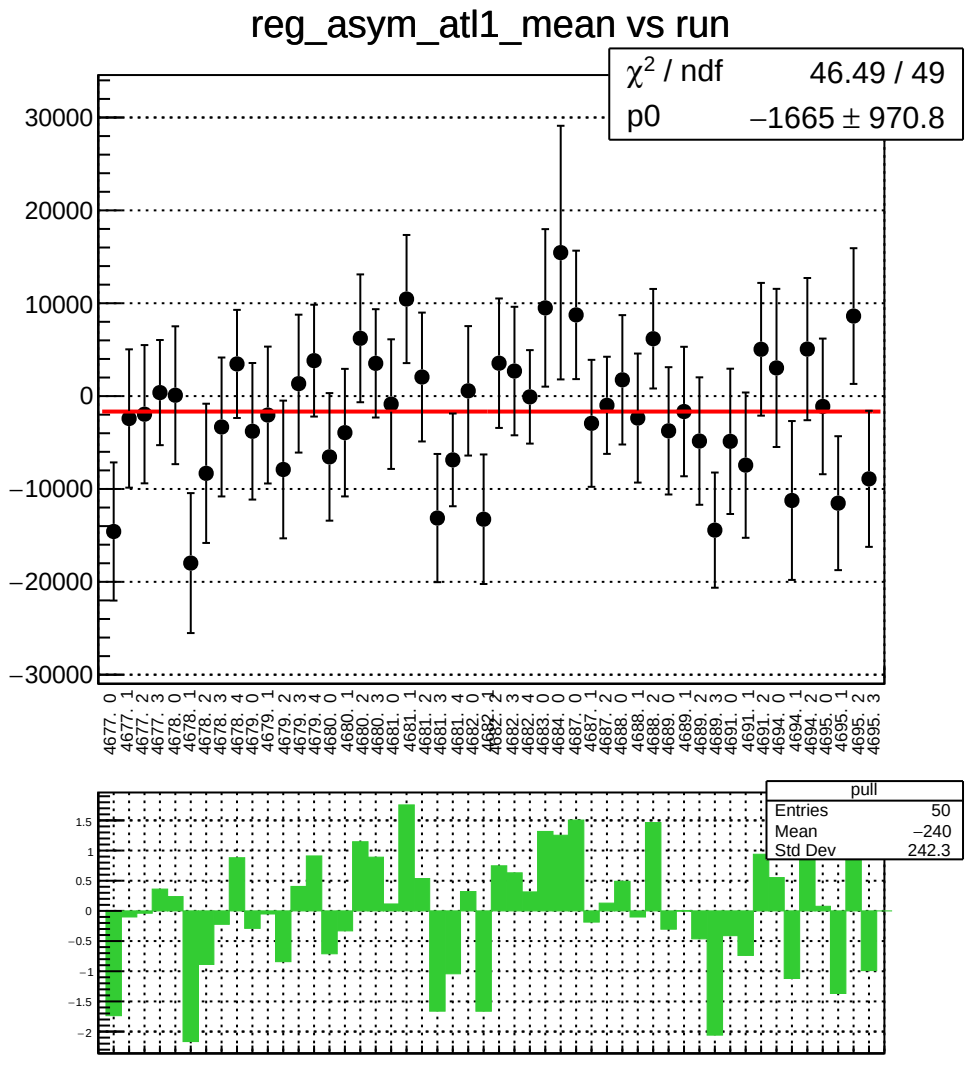
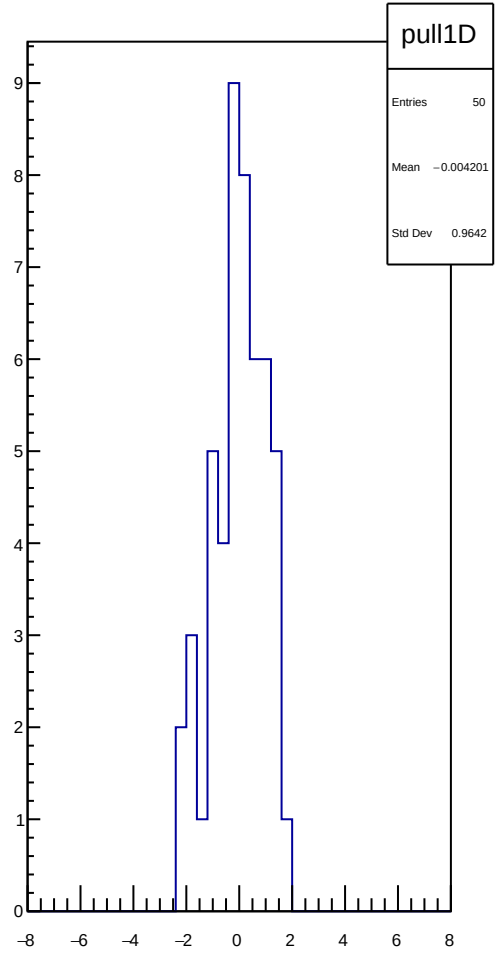
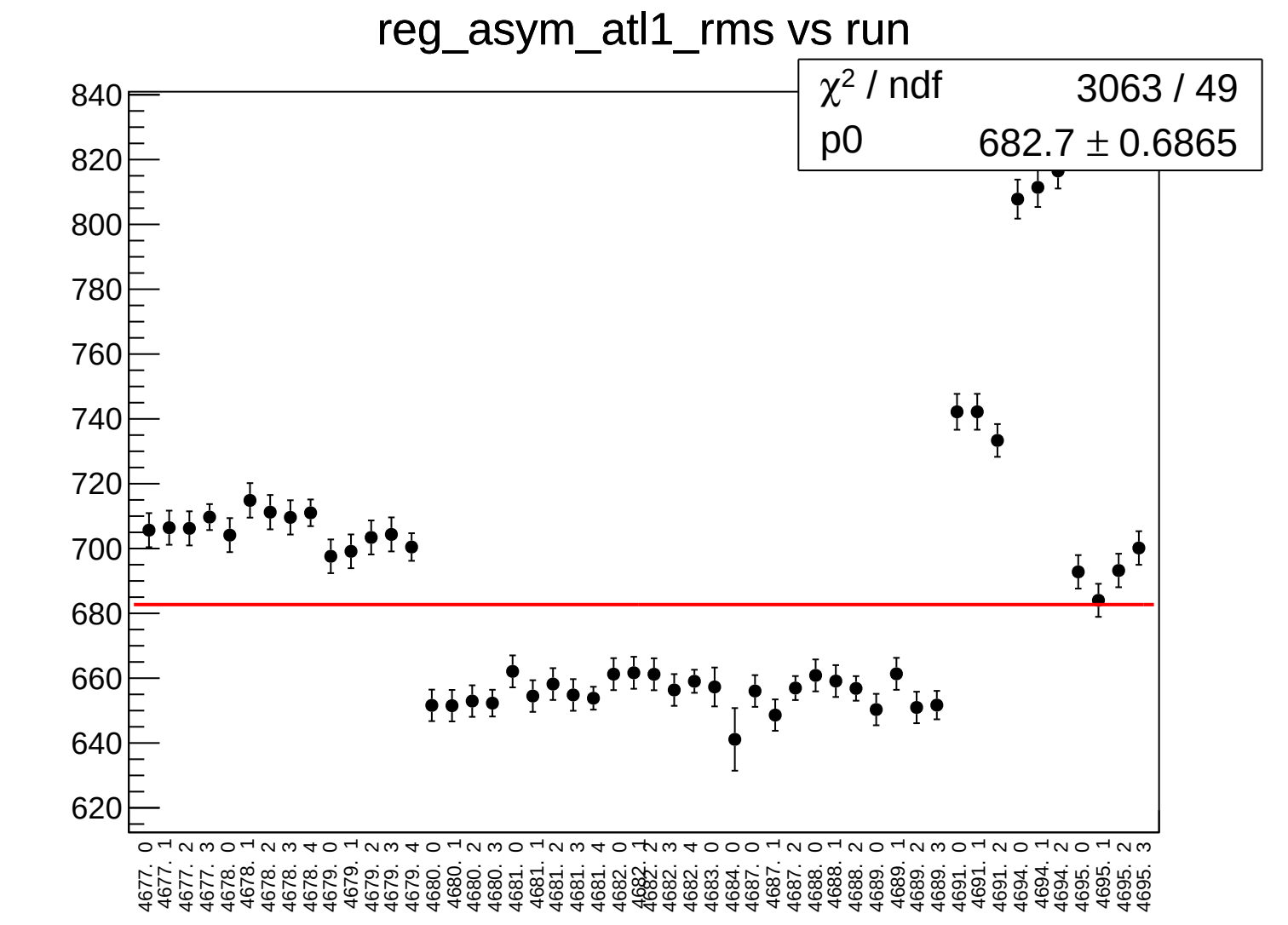
4695. 2
4695. 3
pull
Entries 50
Mean −196
Std Dev 220.8
2
1
0
−1
−2

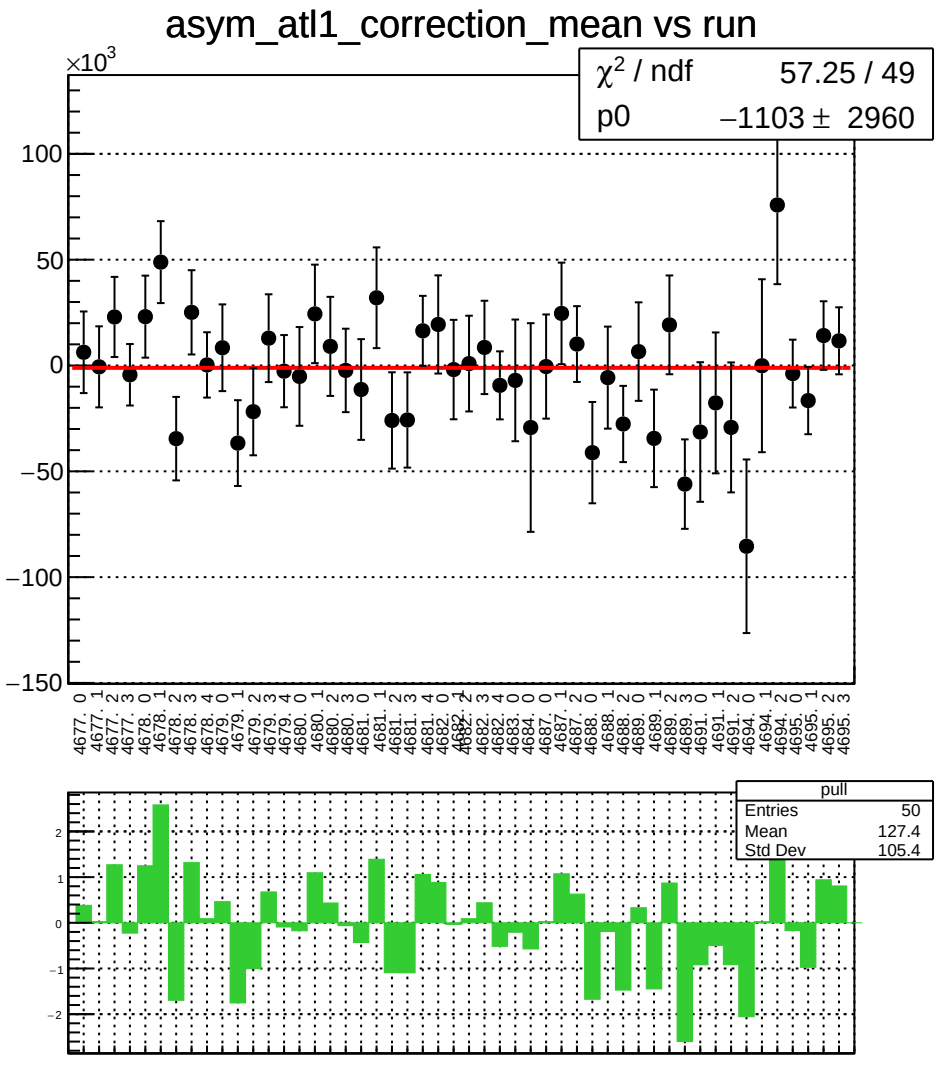

pull1D
Entries 50
Mean −0.02298
Std Dev 1.061
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

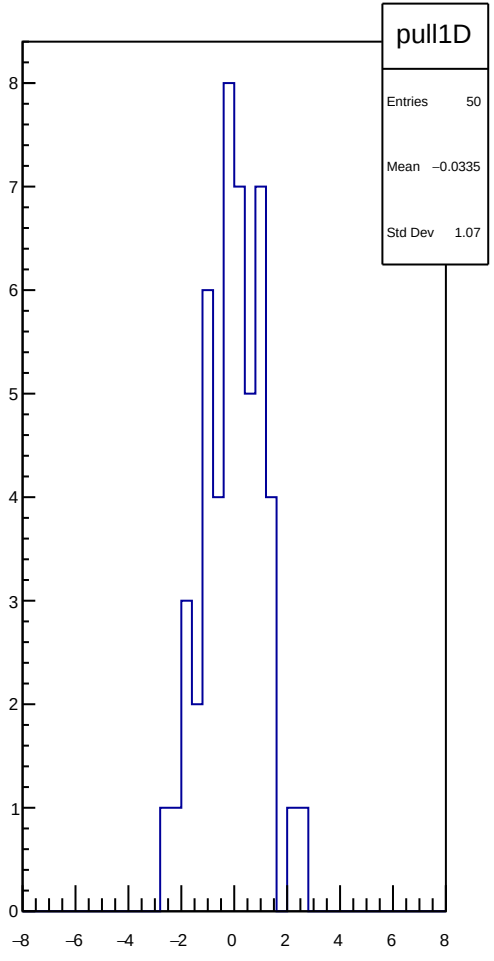

asym_right_agg_dd_rms vs run
χ² / ndf 3.893e+05 / 49
p0 72.18 ± 0.09297
300
250
200
150
100
50
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

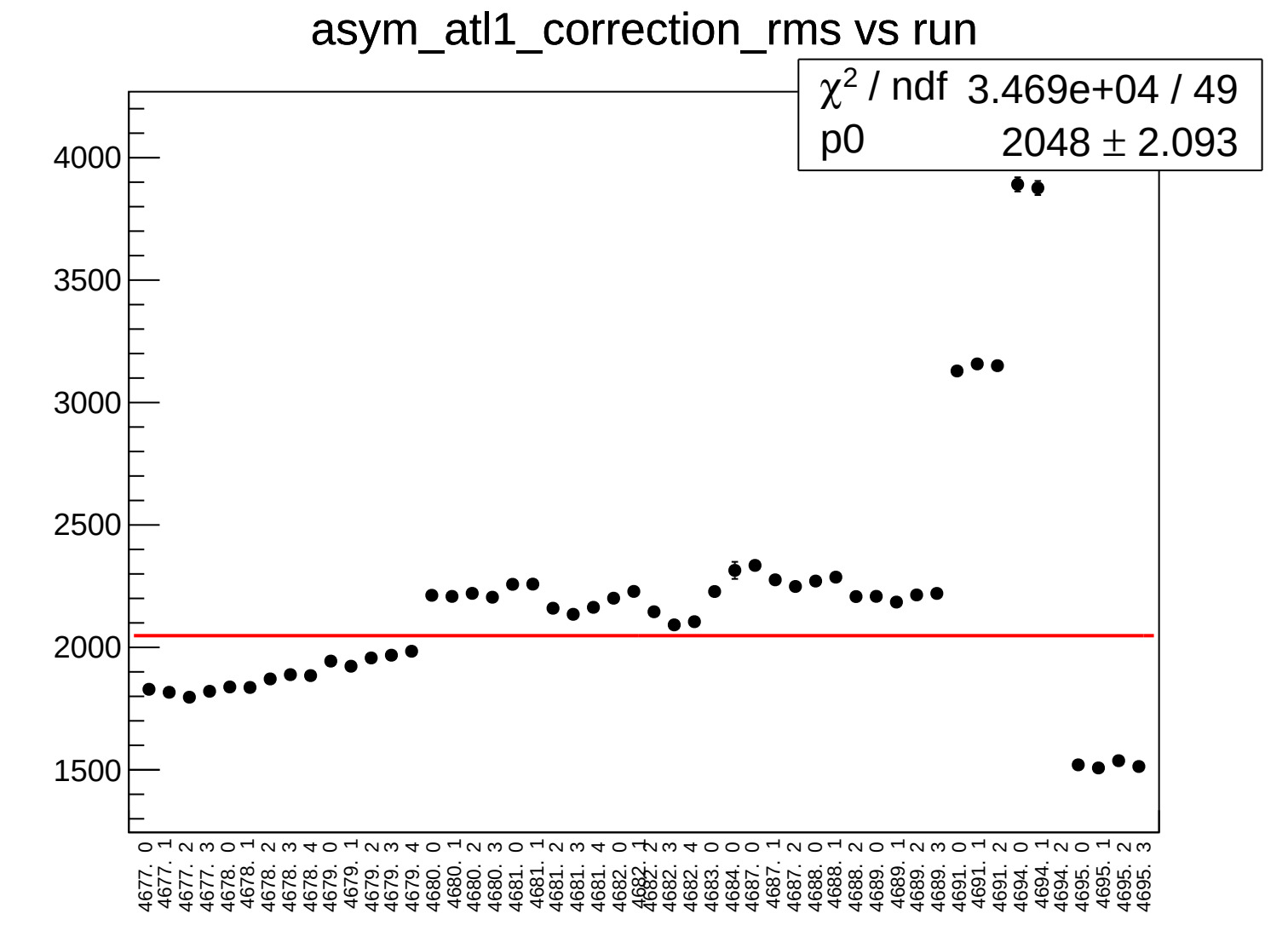

reg_asym_atl1_mean vs run
χ² / ndf 46.49 / 49
p0 −1665 ± 970.8
pull
Entries 50
Mean −240
Std Dev 242.3

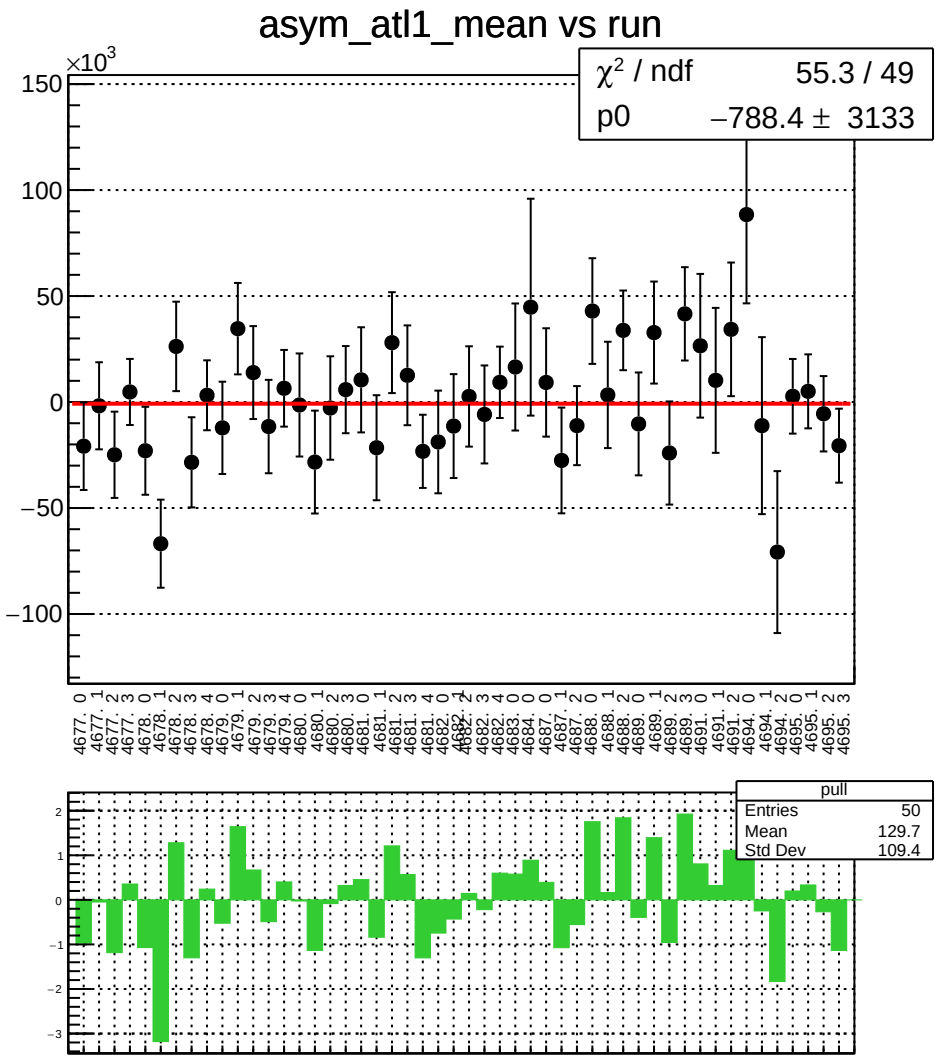

pull1D
Entries 50
Mean −0.004201
Std Dev 0.9642

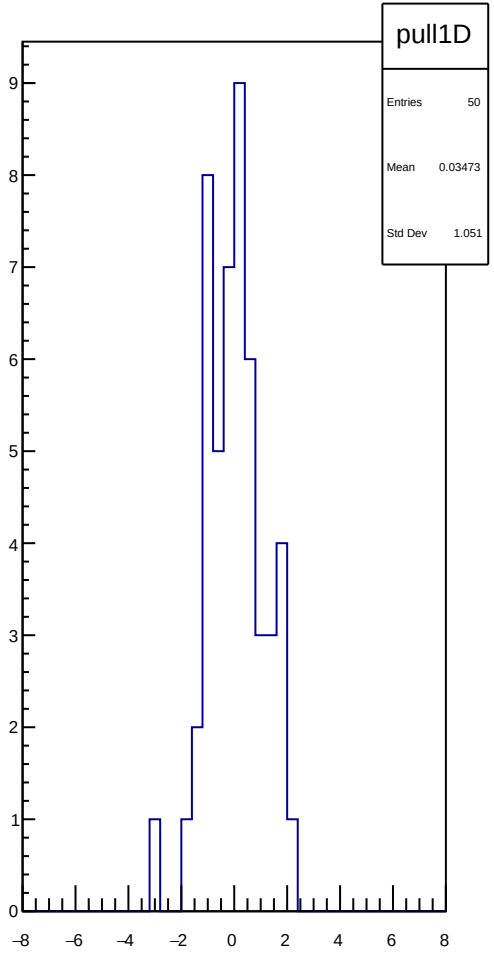

reg_asym_atl1_rms vs run
χ² / ndf 3063 / 49
p0 682.7 ± 0.6865
840
820
800
780
760
740
720
700
680
660
640
620
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

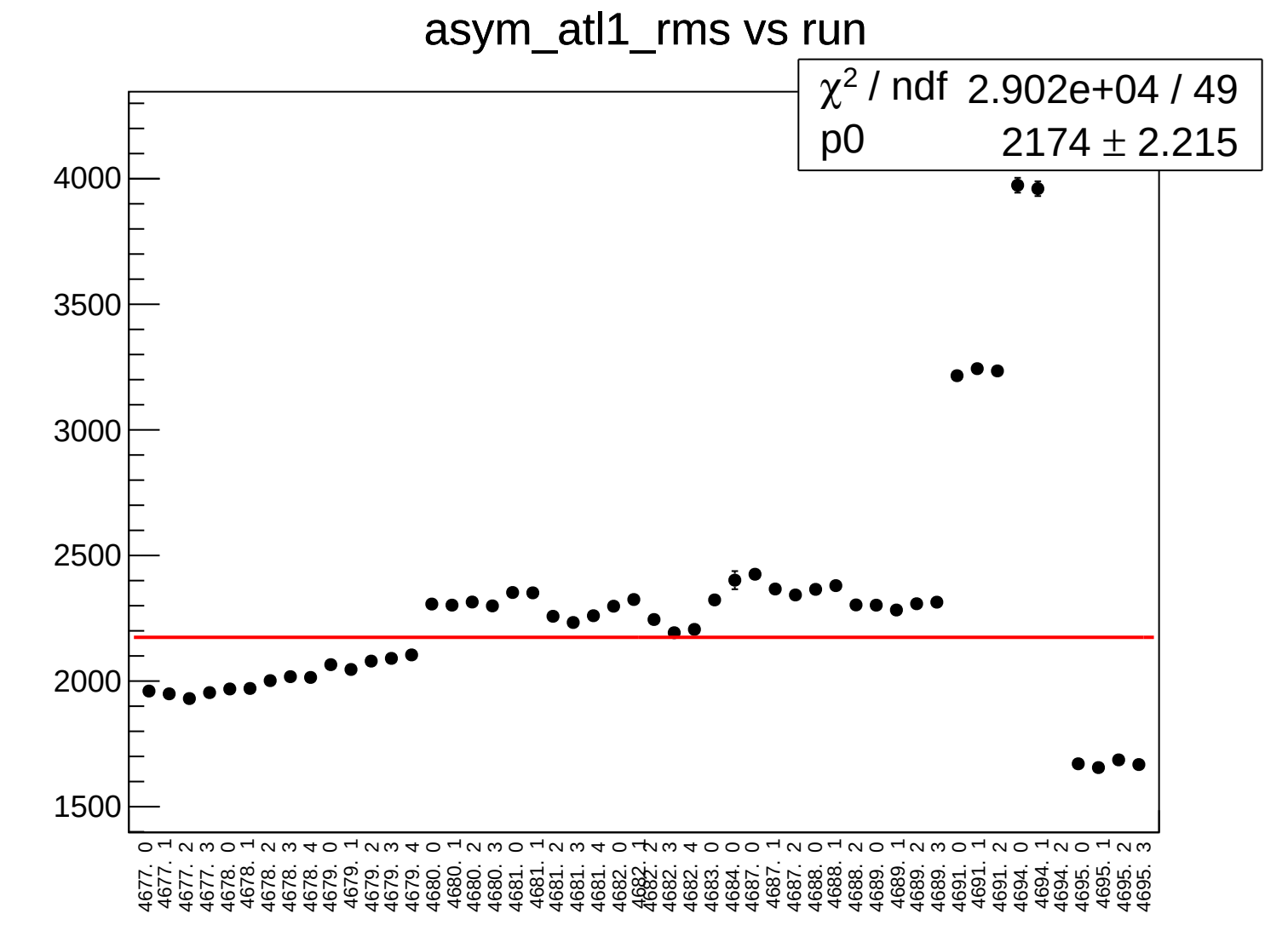

asym_atl1_correction_mean vs run
×10^3
χ^2 / ndf 57.25 / 49
p0 −1103 ± 2960
100
50
0
−50
−100
−150
pull
Entries 50
Mean 127.4
Std Dev 105.4
2
1
0
−1
−2

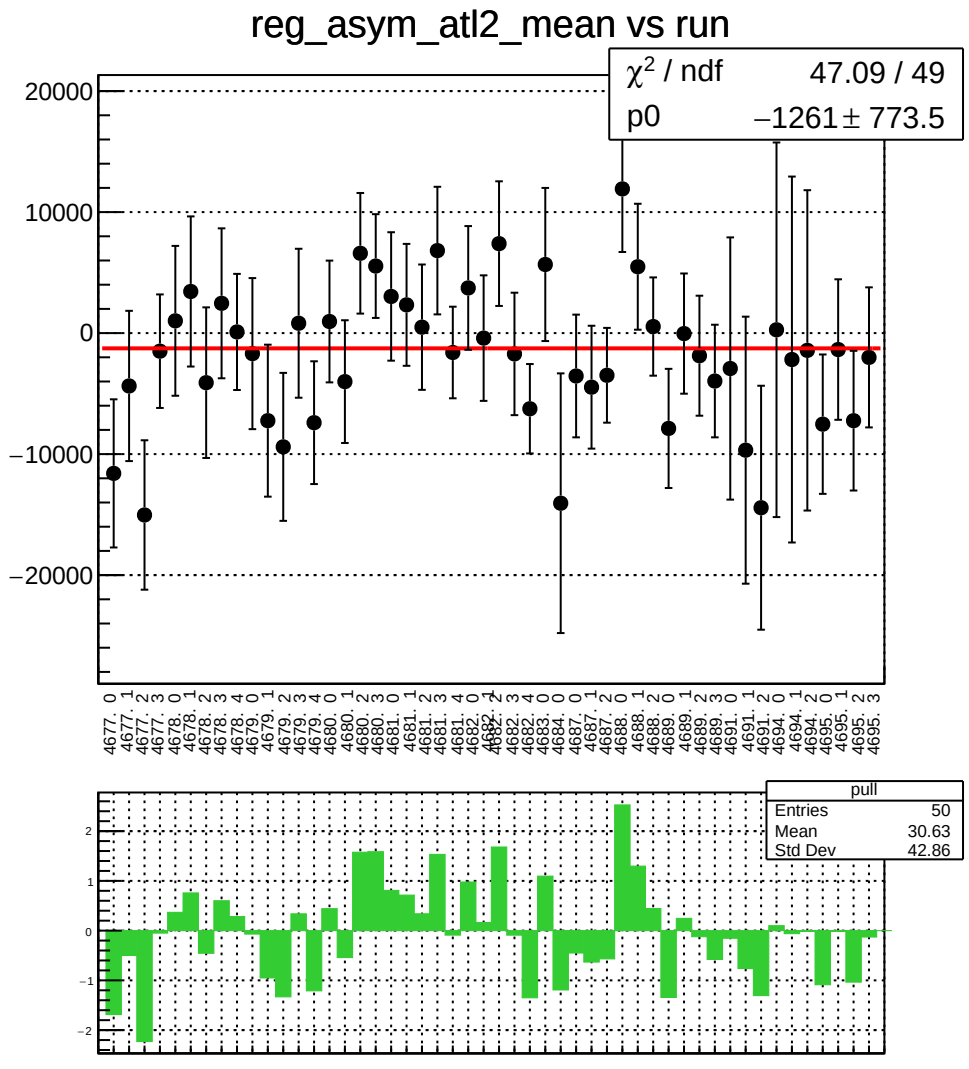

pull1D
Entries 50
Mean −0.0335
Std Dev 1.07
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

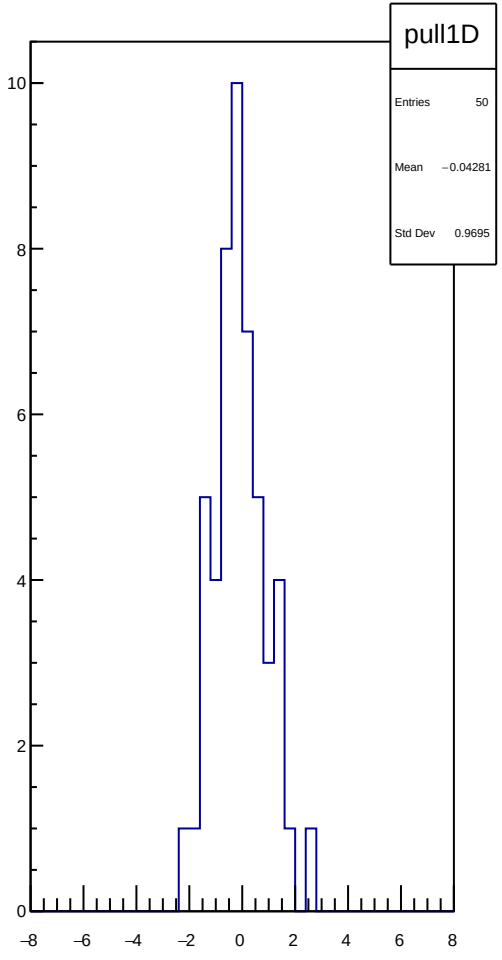

asym_atl1_correction_rms vs run
χ² / ndf 3.469e+04 / 49
p0 2048 ± 2.093
4000
3500
3000
2500
2000
1500
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

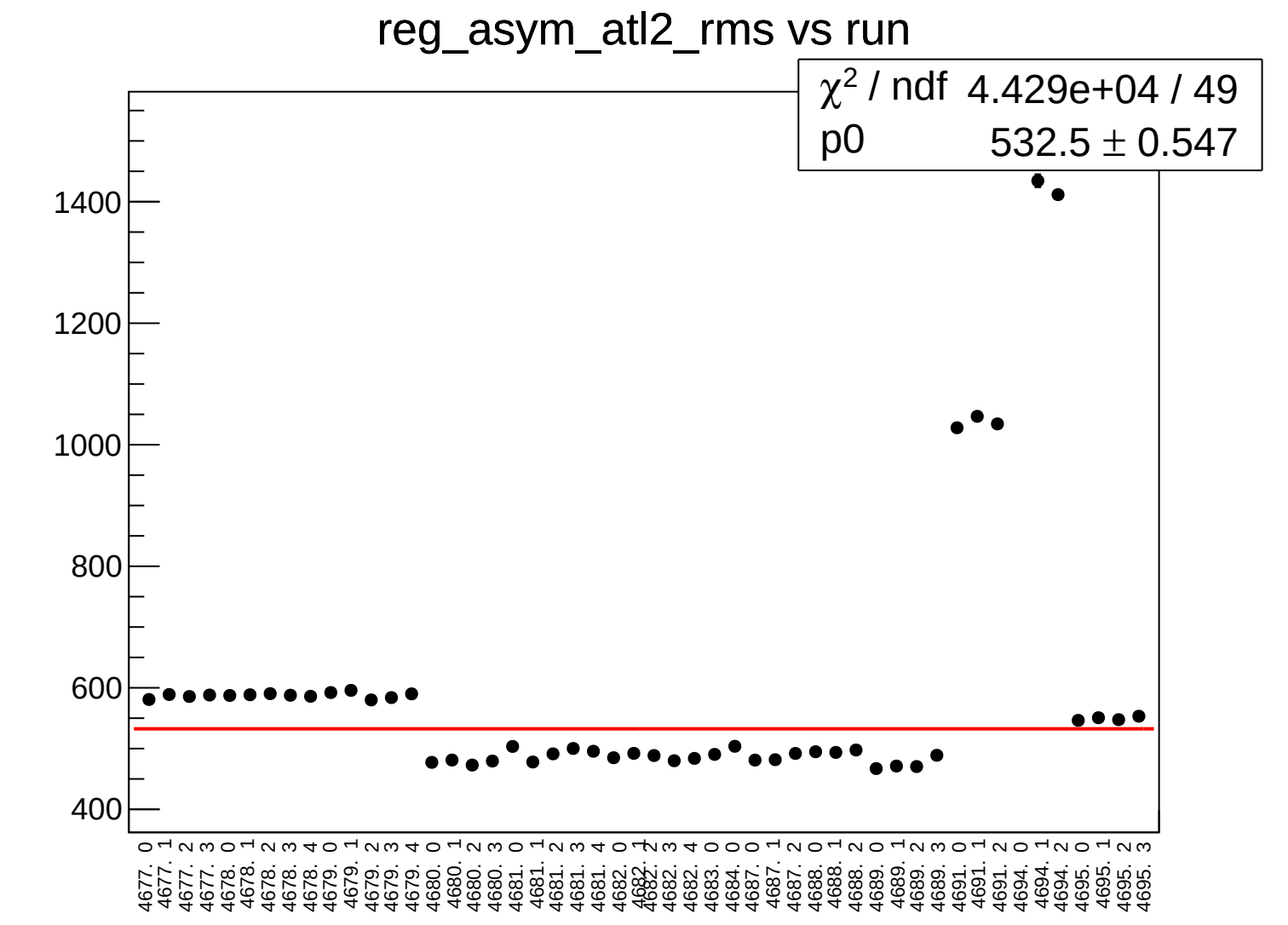

asym_atl1_mean vs run
×10^3
χ² / ndf 55.3 / 49
p0 −788.4 ± 3133
150
100
50
0
−50
−100
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 129.7
Std Dev 109.4
2
1
0
−1
−2
−3

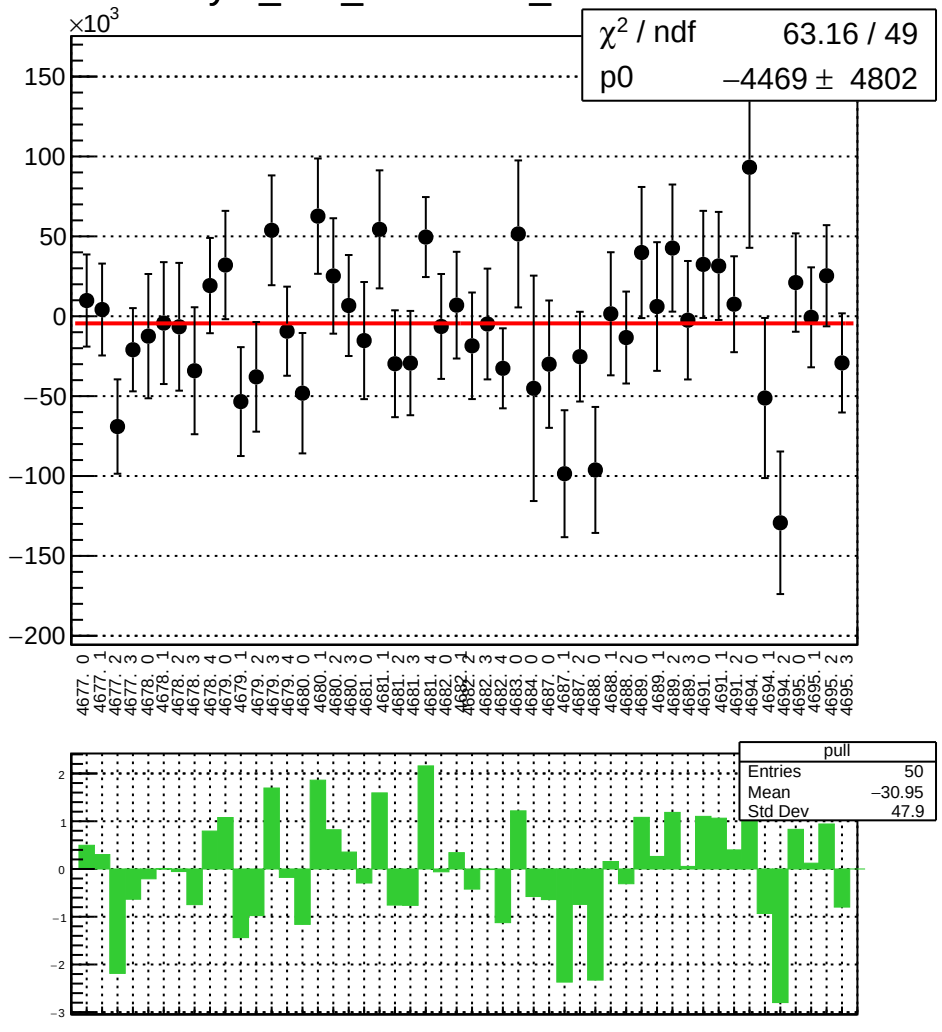

pull1D
Entries 50
Mean 0.03473
Std Dev 1.051
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

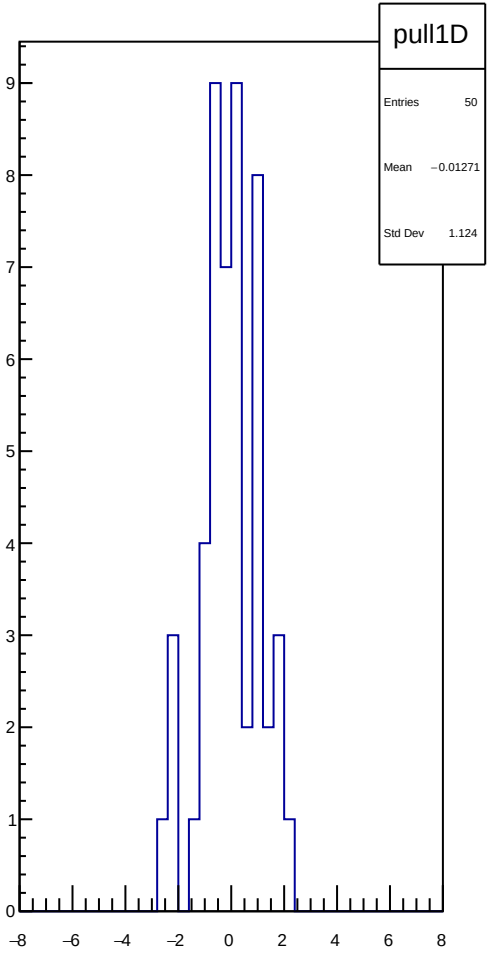

asym_atl1_rms vs run
χ² / ndf 2.902e+04 / 49
p0 2174 ± 2.215
4000
3500
3000
2500
2000
1500
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

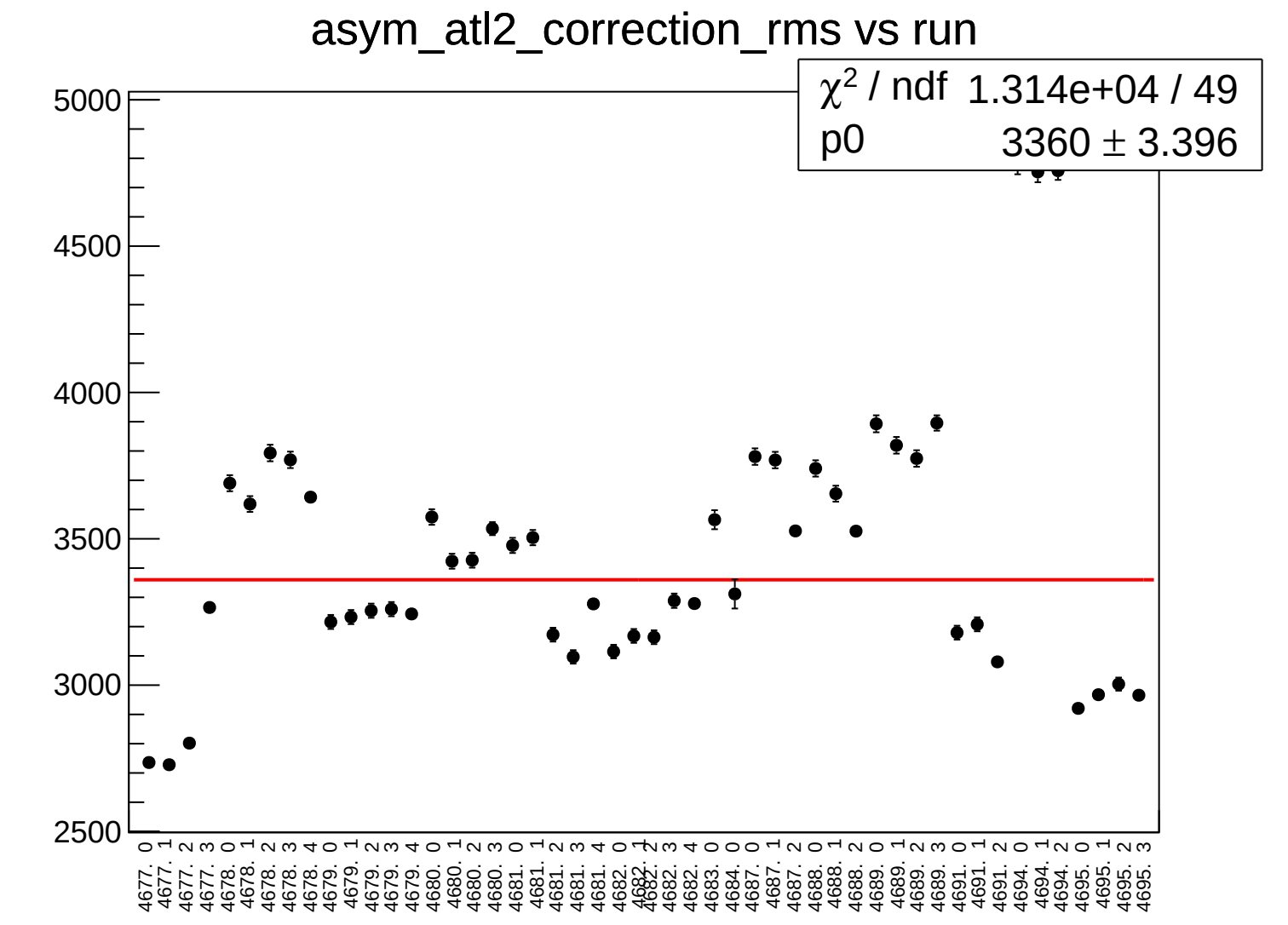

reg_asym_atl2_mean vs run
χ² / ndf 47.09 / 49
p0 −1261 ± 773.5
20000
10000
0
−10000
−20000
pull
Entries 50
Mean 30.63
Std Dev 42.86
2
1
0
−1
−2

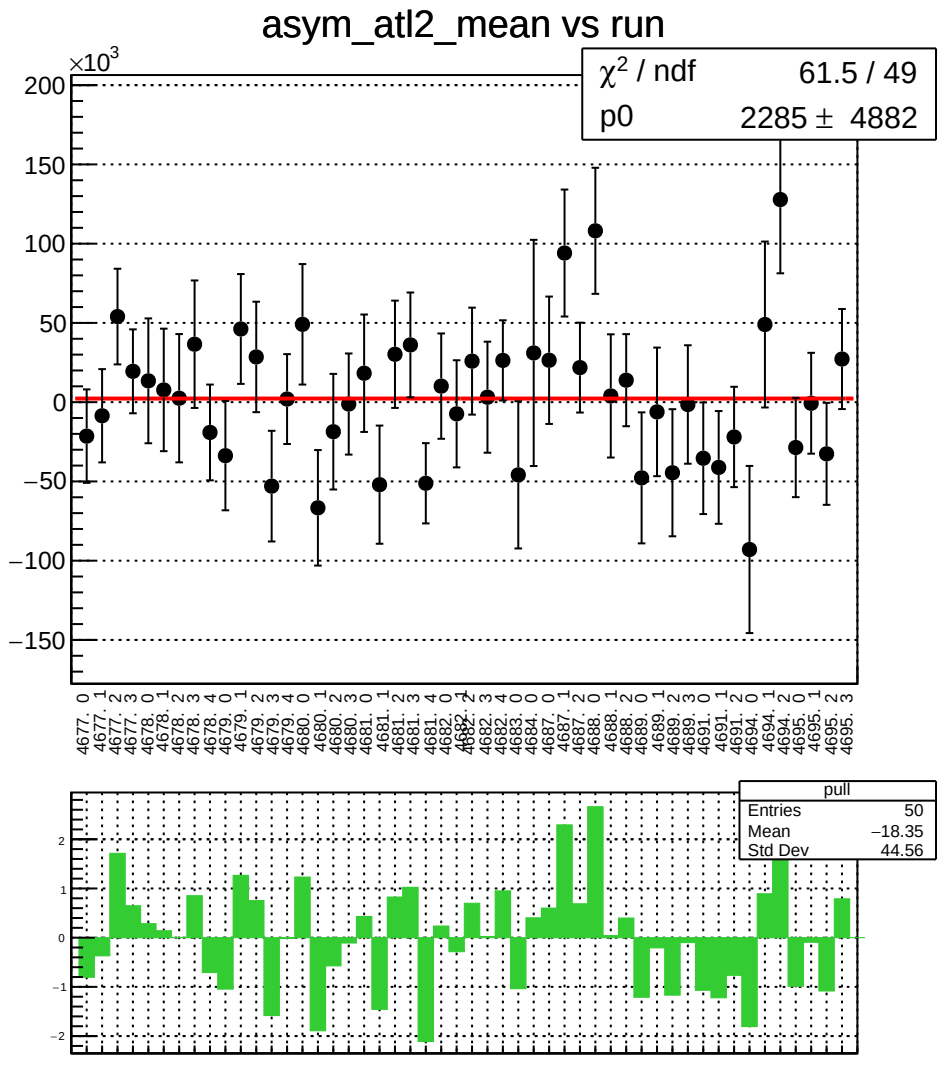

pull1D
Entries 50
Mean −0.04281
Std Dev 0.9695
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

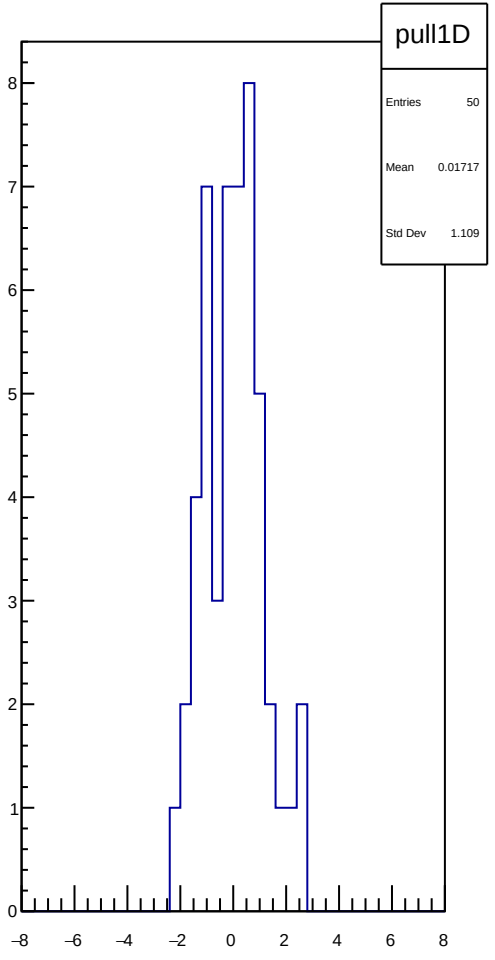

reg_asym_atl2_rms vs run
χ² / ndf 4.429e+04 / 49
p0 532.5 ± 0.547
1400
1200
1000
800
600
400
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

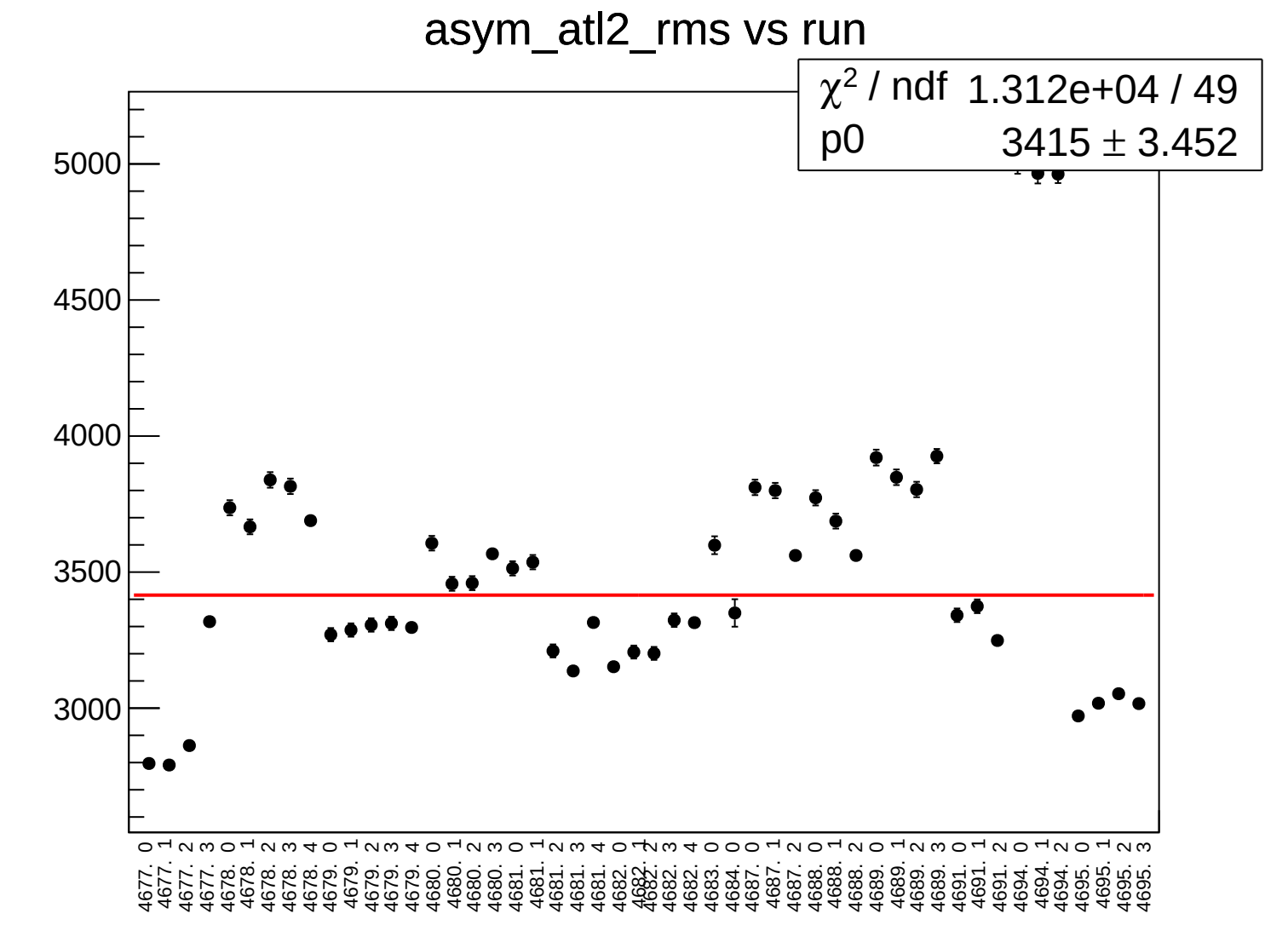

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 63.16 / 49
p0 −4469 ± 4802
150
100
50
0
−50
−100
−150
−200
pull
Entries 50
Mean −30.95
Std Dev 47.9
2
1
0
−1
−2
−3

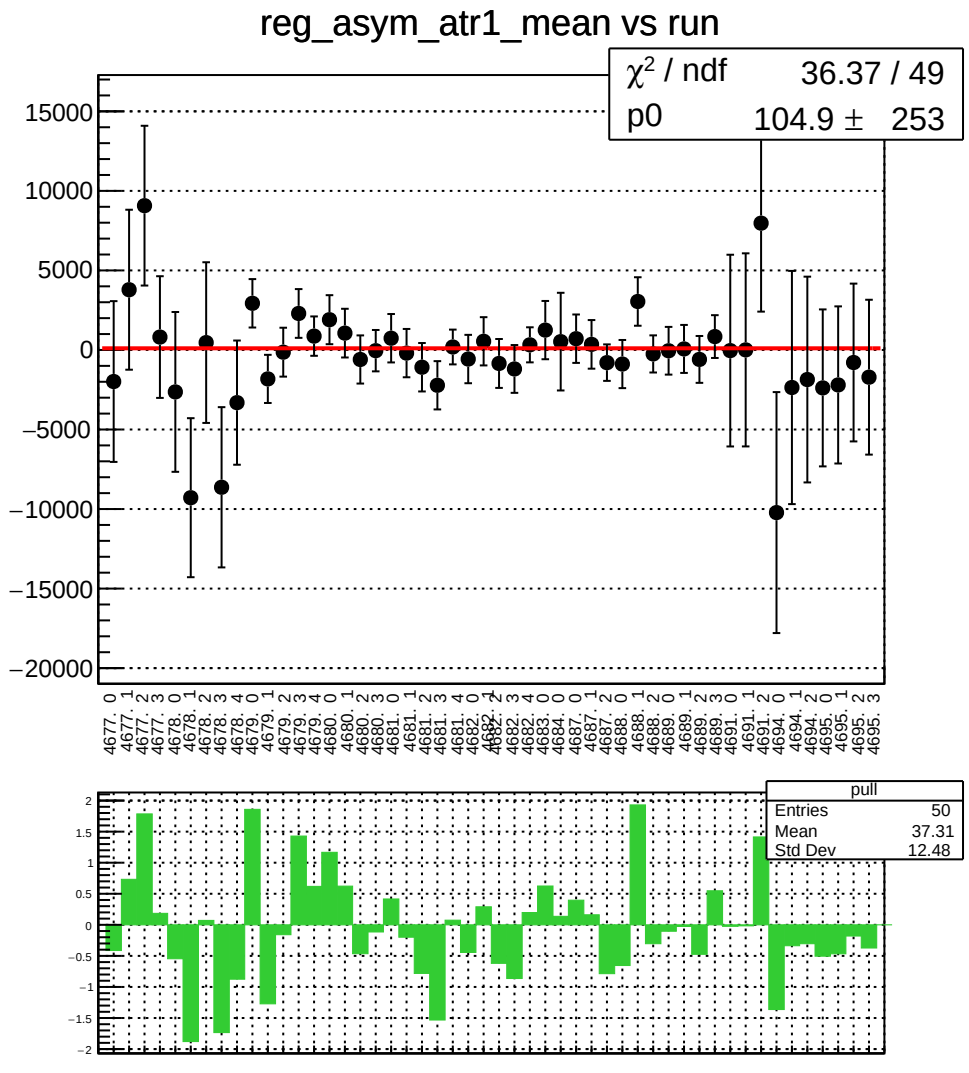

pull1D
Entries 50
Mean −0.01271
Std Dev 1.124
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

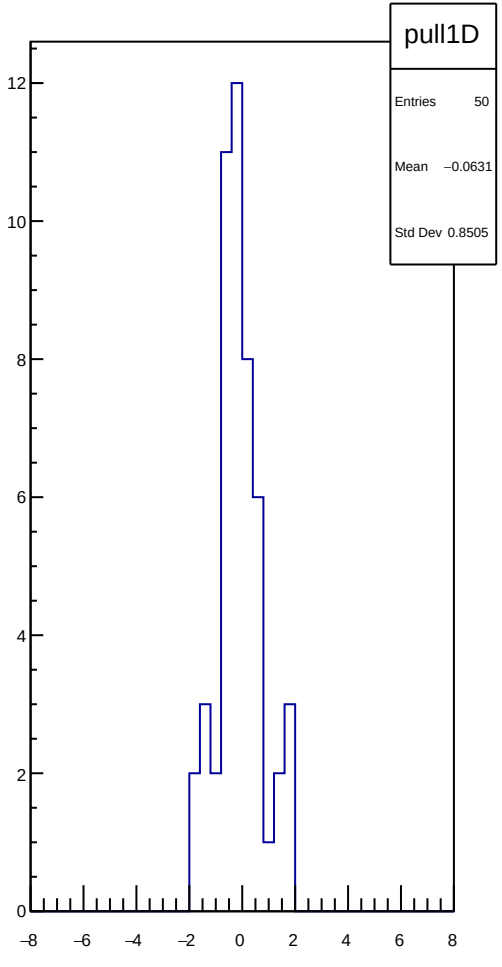

asym_atl2_correction_rms vs run
χ² / ndf 1.314e+04 / 49
p0 3360 ± 3.396
5000
4500
4000
3500
3000
2500
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

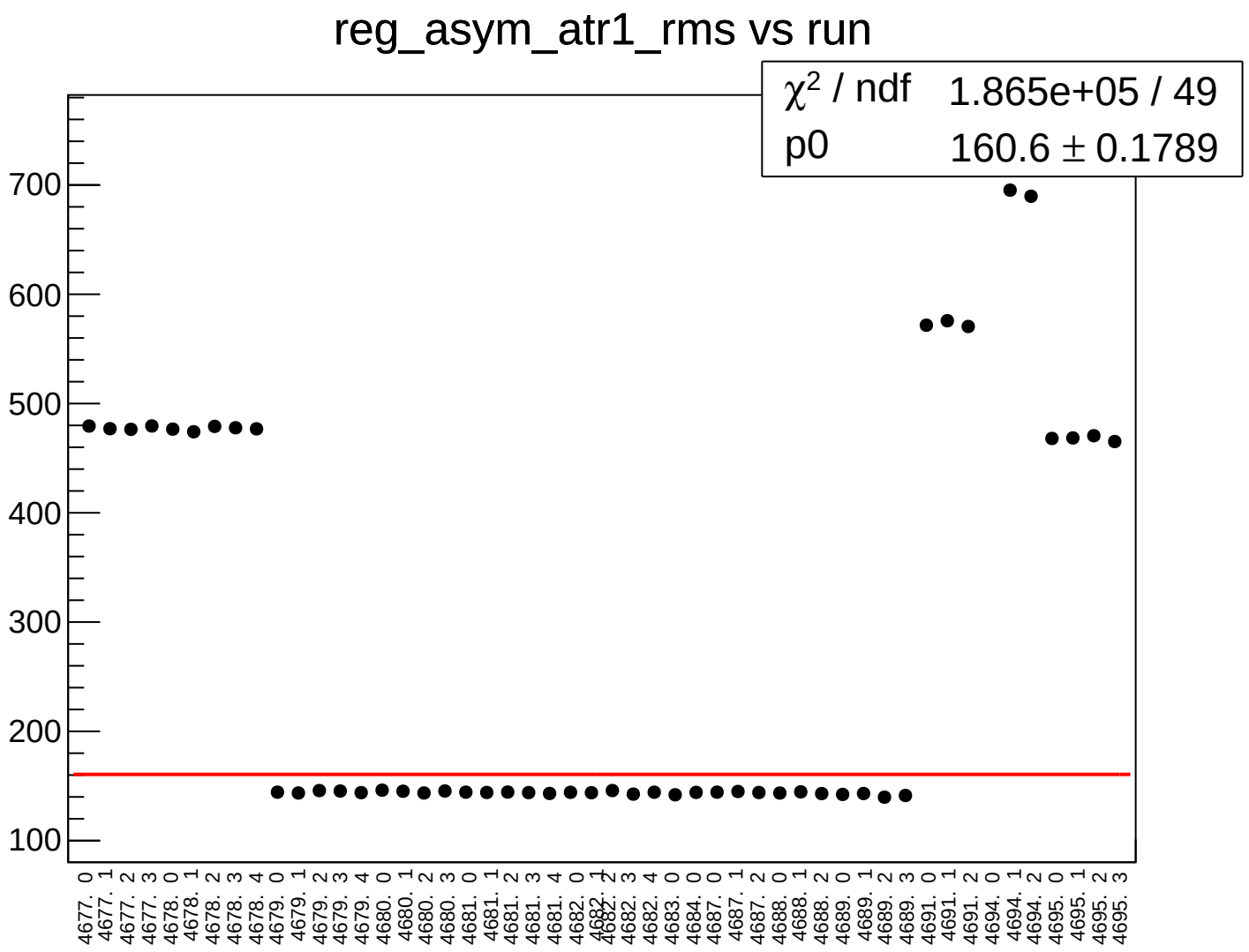

asym_atl2_mean vs run
×10^3
χ^2 / ndf 61.5 / 49
p0 2285 ± 4882
pull
Entries 50
Mean −18.35
Std Dev 44.56

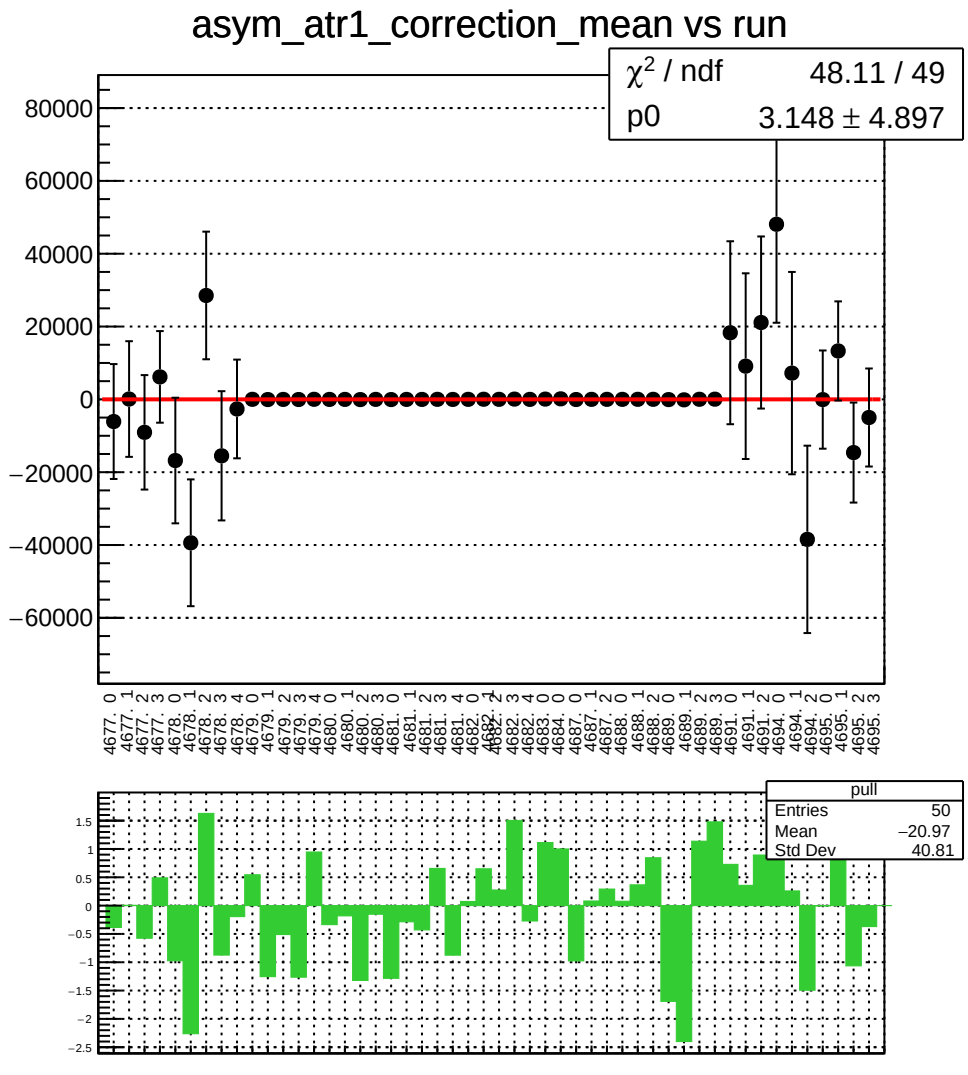

pull1D
Entries 50
Mean 0.01717
Std Dev 1.109

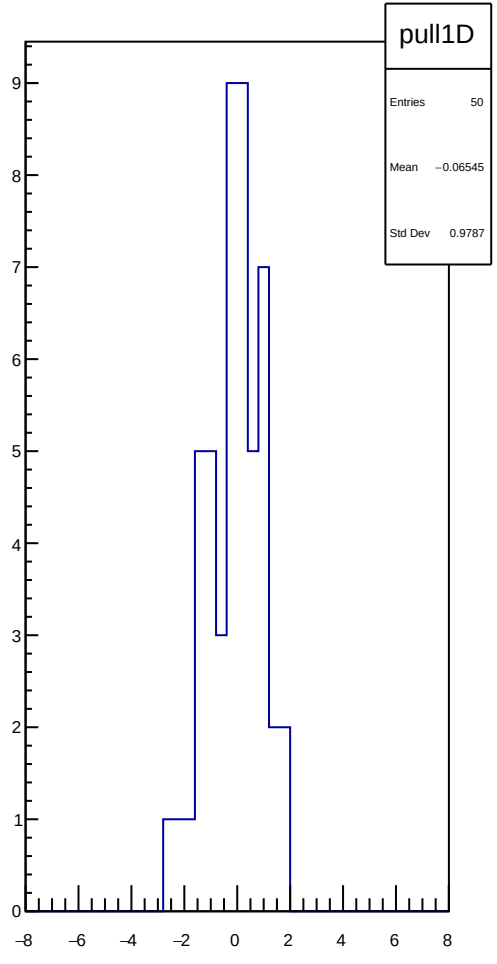

asym_atl2_rms vs run
χ² / ndf 1.312e+04 / 49
p0 3415 ± 3.452
5000
4500
4000
3500
3000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

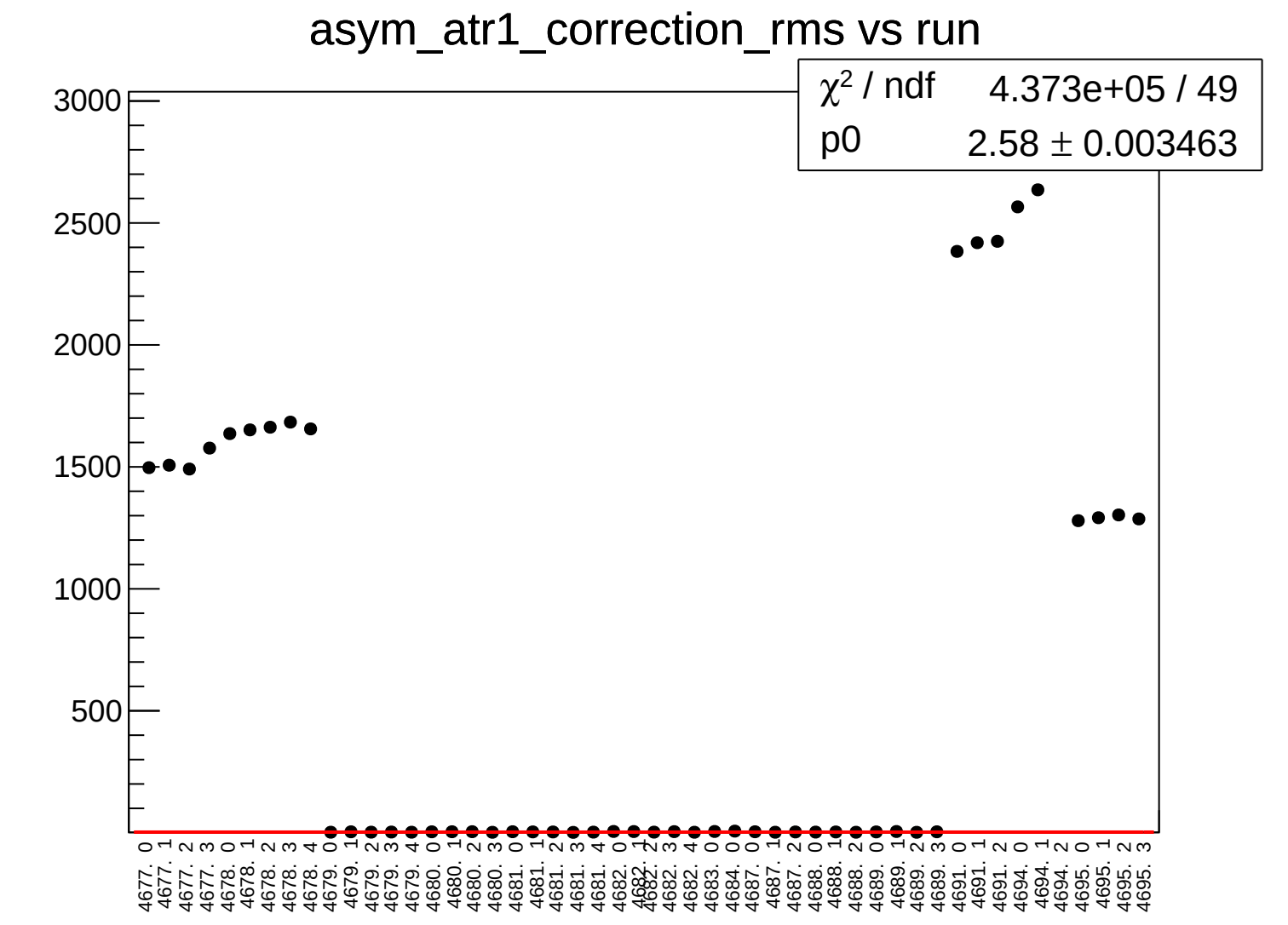

reg_asym_atr1_mean vs run
χ² / ndf 36.37 / 49
p0 104.9 ± 253
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 50
Mean 37.31
Std Dev 12.48
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean −0.0631
Std Dev 0.8505
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1_rms vs run
χ² / ndf 1.865e+05 / 49
p0 160.6 ± 0.1789
700
600
500
400
300
200
100
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_atr1_correction_mean vs run
χ^2 / ndf 48.11 / 49
p0 3.148 ± 4.897
pull
Entries 50
Mean −20.97
Std Dev 40.81


pull1D
Entries 50
Mean −0.06545
Std Dev 0.9787


asym_atr1_correction_rms vs run
χ² / ndf 4.373e+05 / 49
p0 2.58 ± 0.003463
3000
2500
2000
1500
1000
500
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
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4679. 2
4679. 3
4679. 4
4680. 0
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4680. 2
4680. 3
4681. 0
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4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
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4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
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4689. 1
4689. 2
4689. 3
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4691. 2
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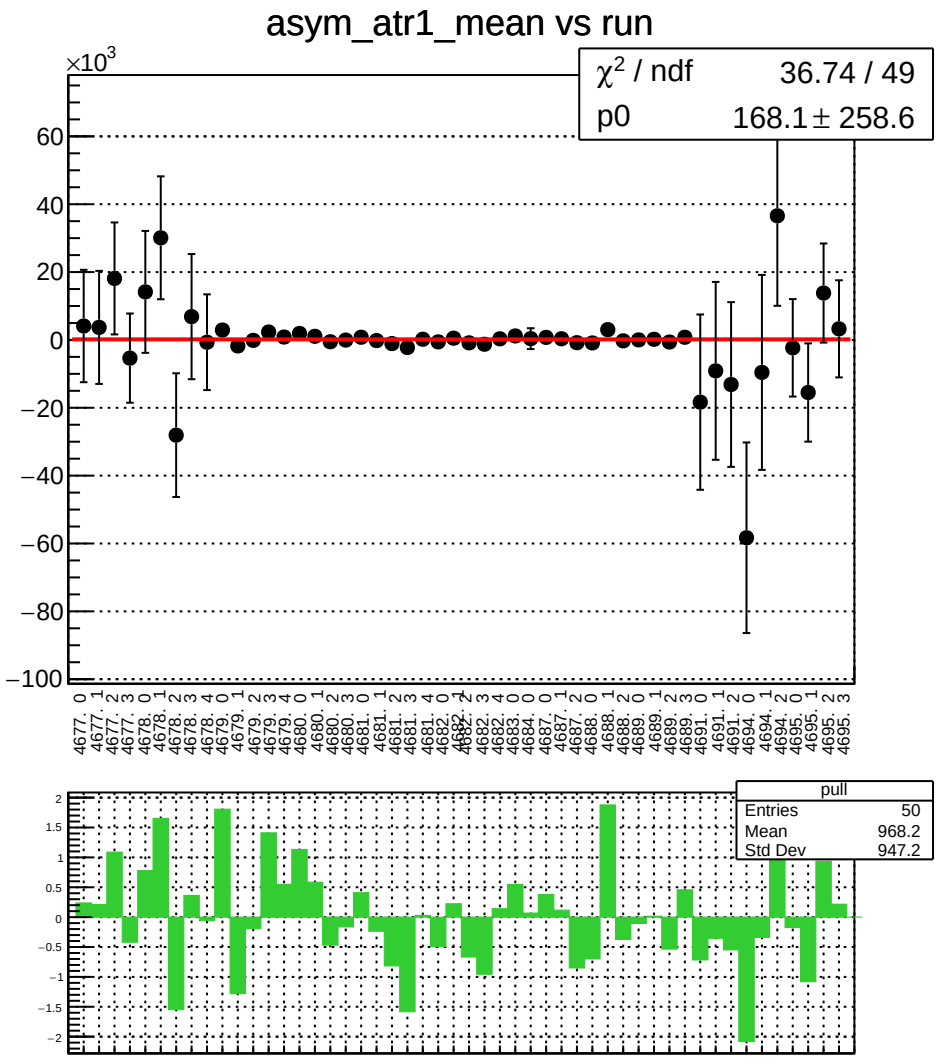
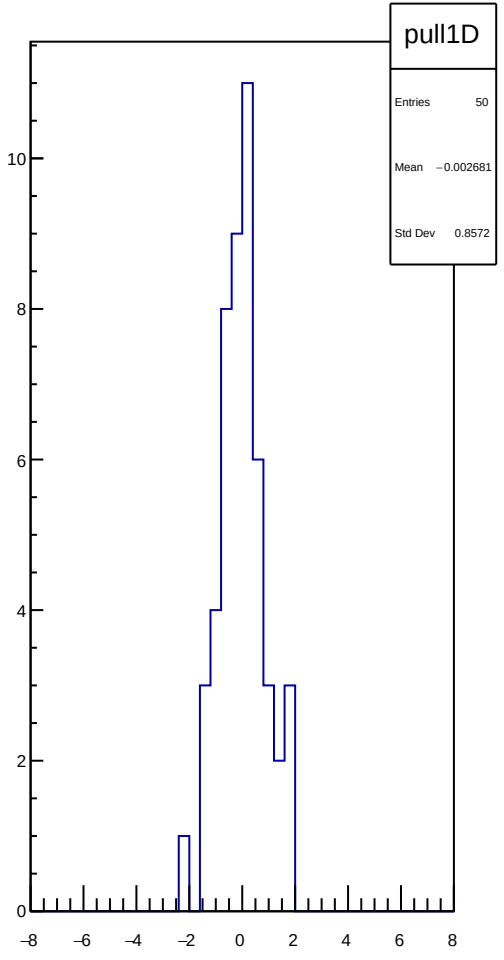
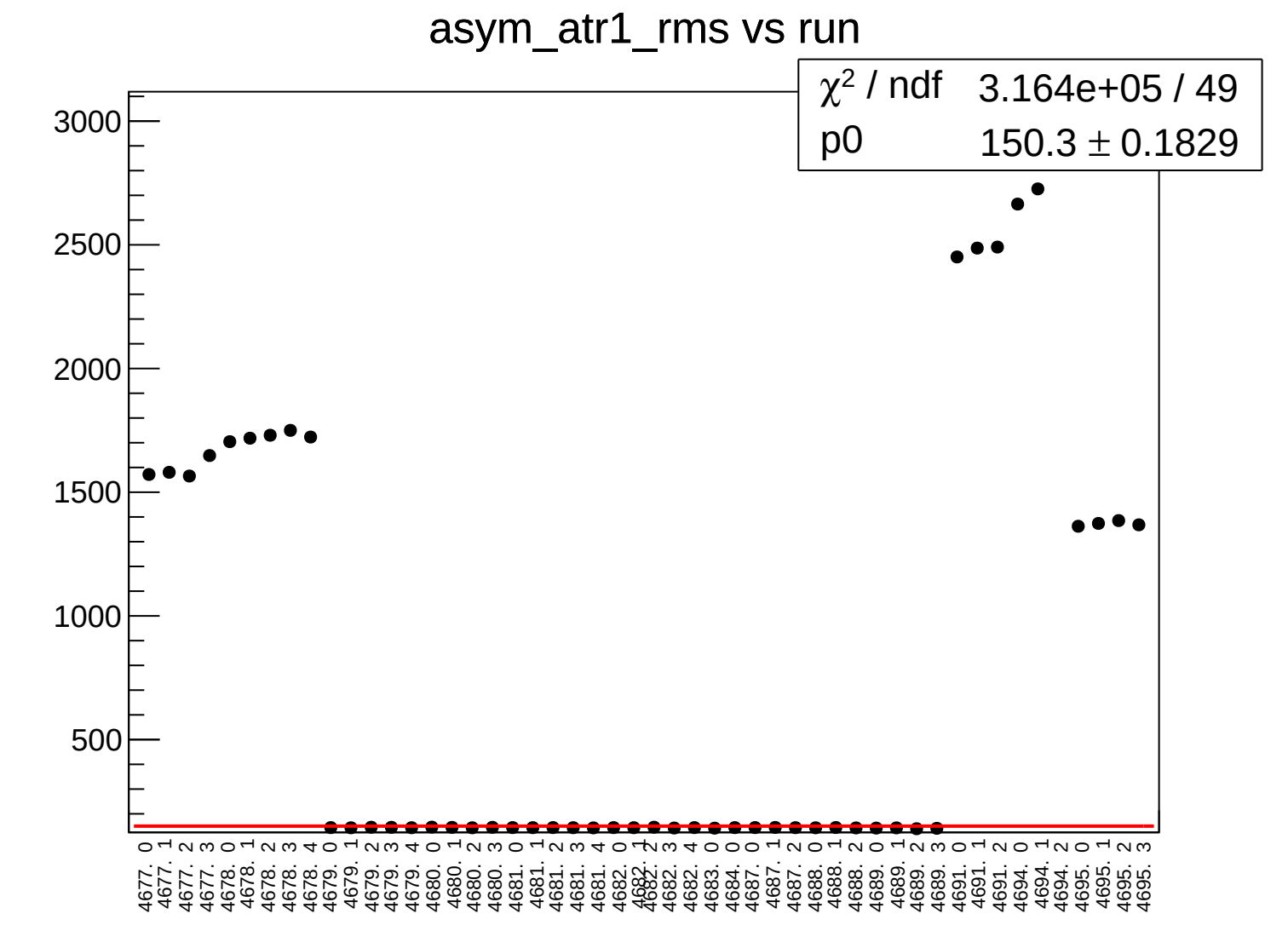
4695. 2
4695. 3


asym_atr1_mean vs run
×10^3
χ² / ndf 36.74 / 49
p0 168.1 ± 258.6
pull
Entries 50
Mean 968.2
Std Dev 947.2


pull1D
Entries 50
Mean −0.002681
Std Dev 0.8572


asym_atr1_rms vs run
χ² / ndf 3.164e+05 / 49
p0 150.3 ± 0.1829
3000
2500
2000
1500
1000
500
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
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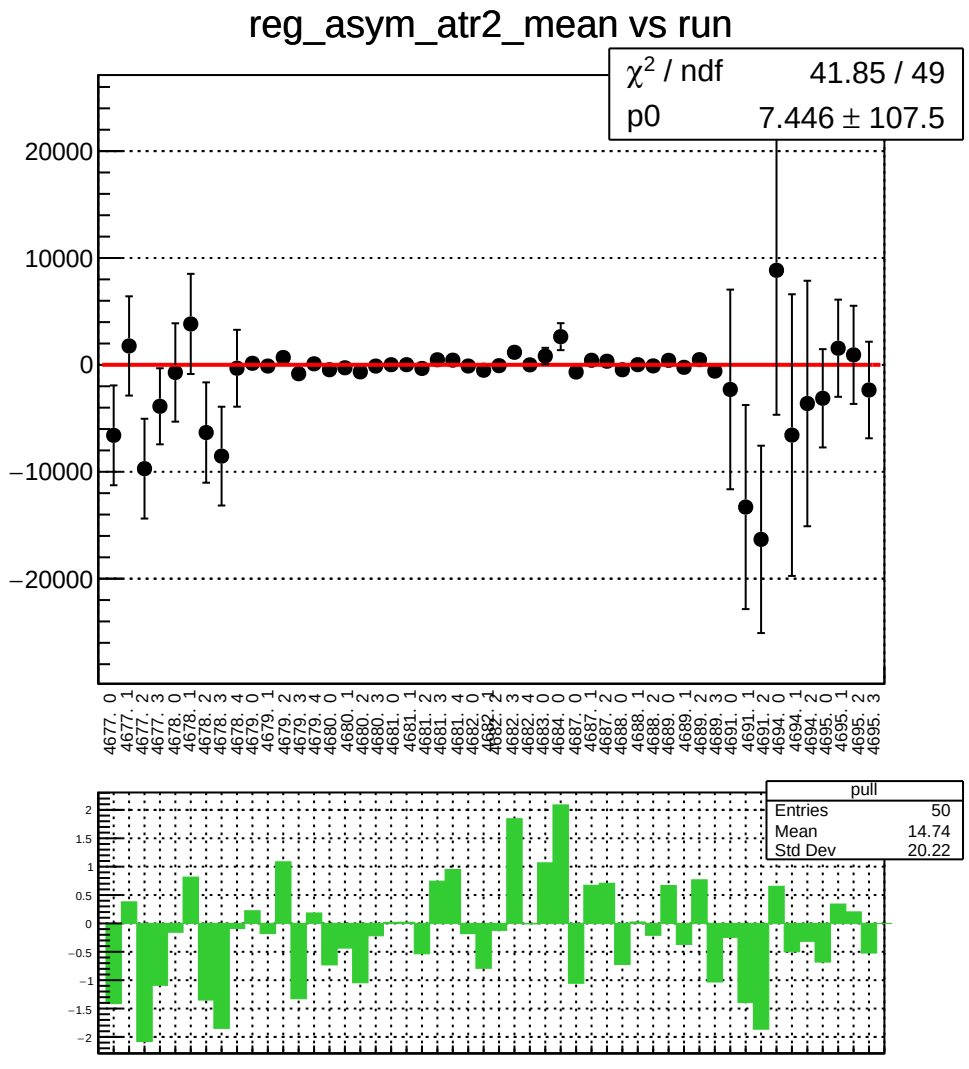
4695. 2
4695. 3


reg_asym_atr2_mean vs run
χ^2 / ndf 41.85 / 49
p0 7.446 ± 107.5
20000
10000
0
−10000
−20000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
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4680. 3
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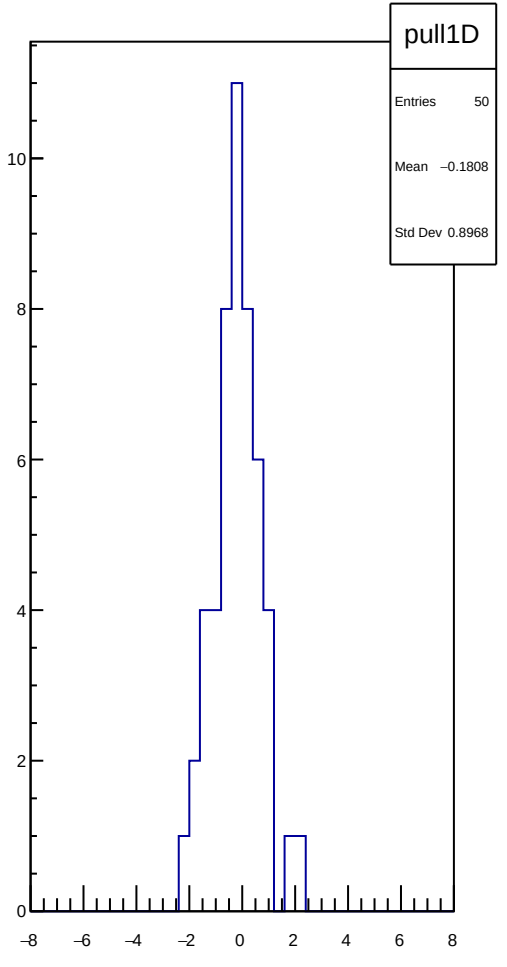
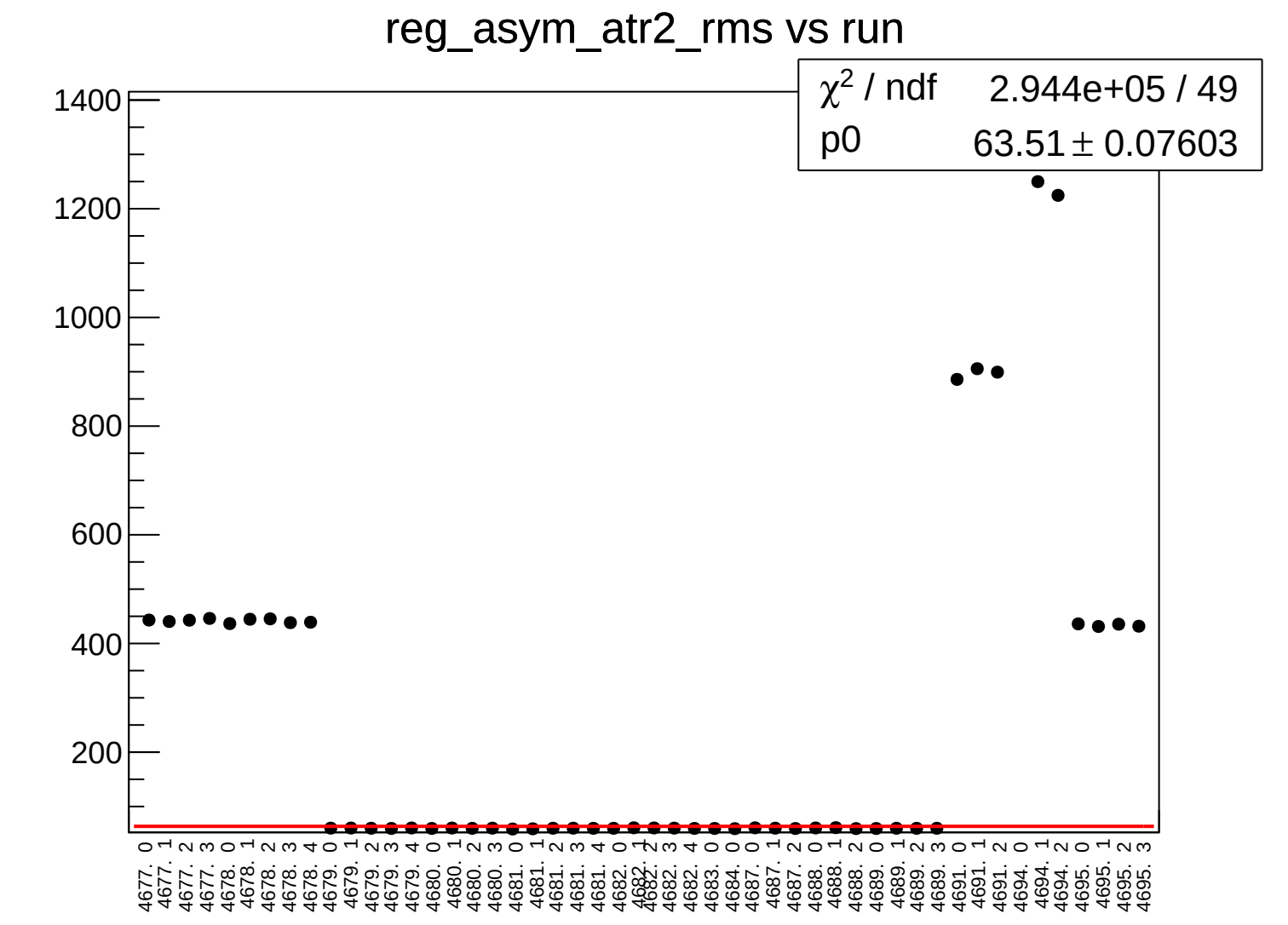
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 14.74
Std Dev 20.22
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean −0.1808
Std Dev 0.8968
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr2_rms vs run
χ² / ndf 2.944e+05 / 49
p0 63.51 ± 0.07603
1400
1200
1000
800
600
400
200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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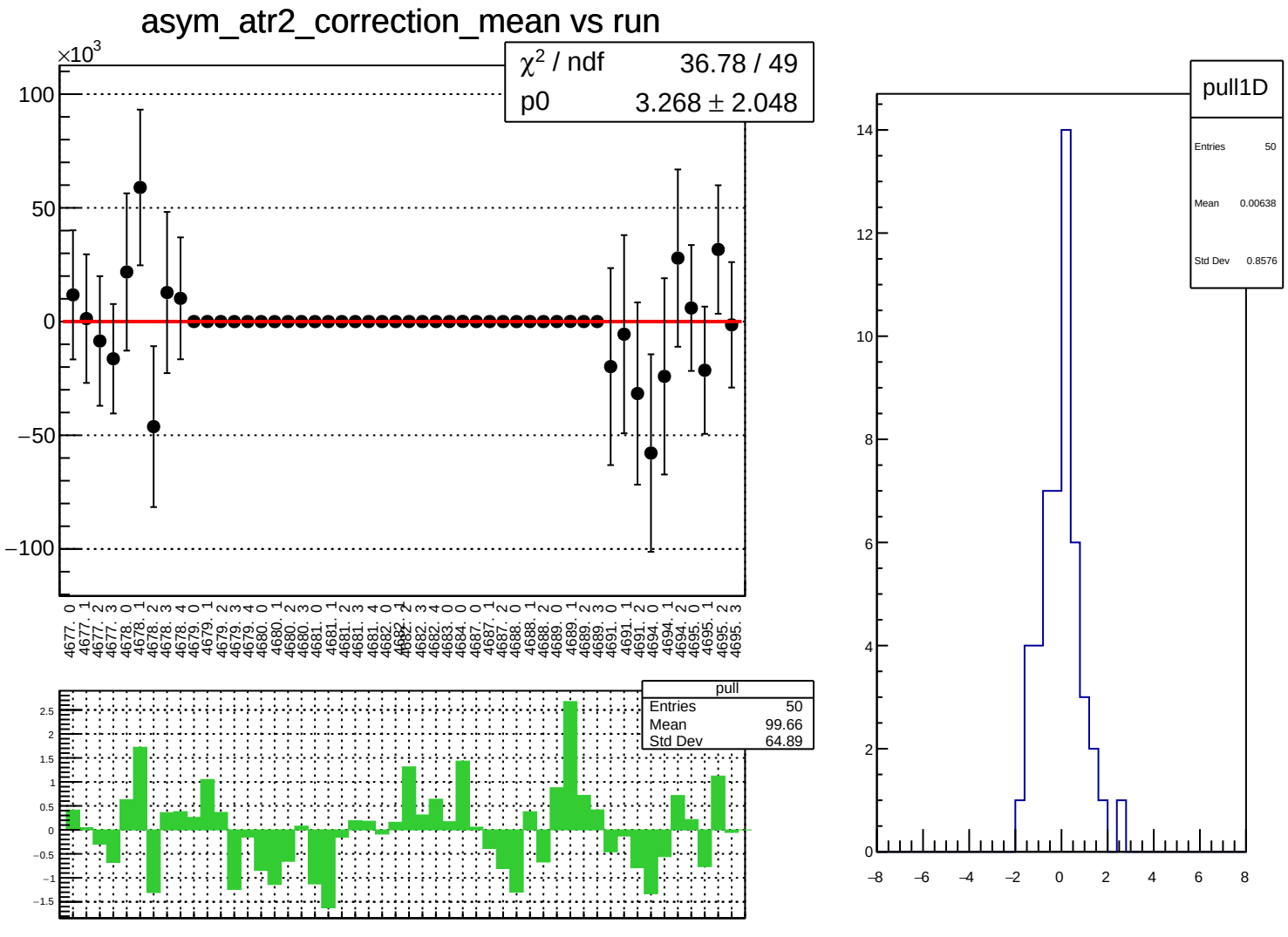
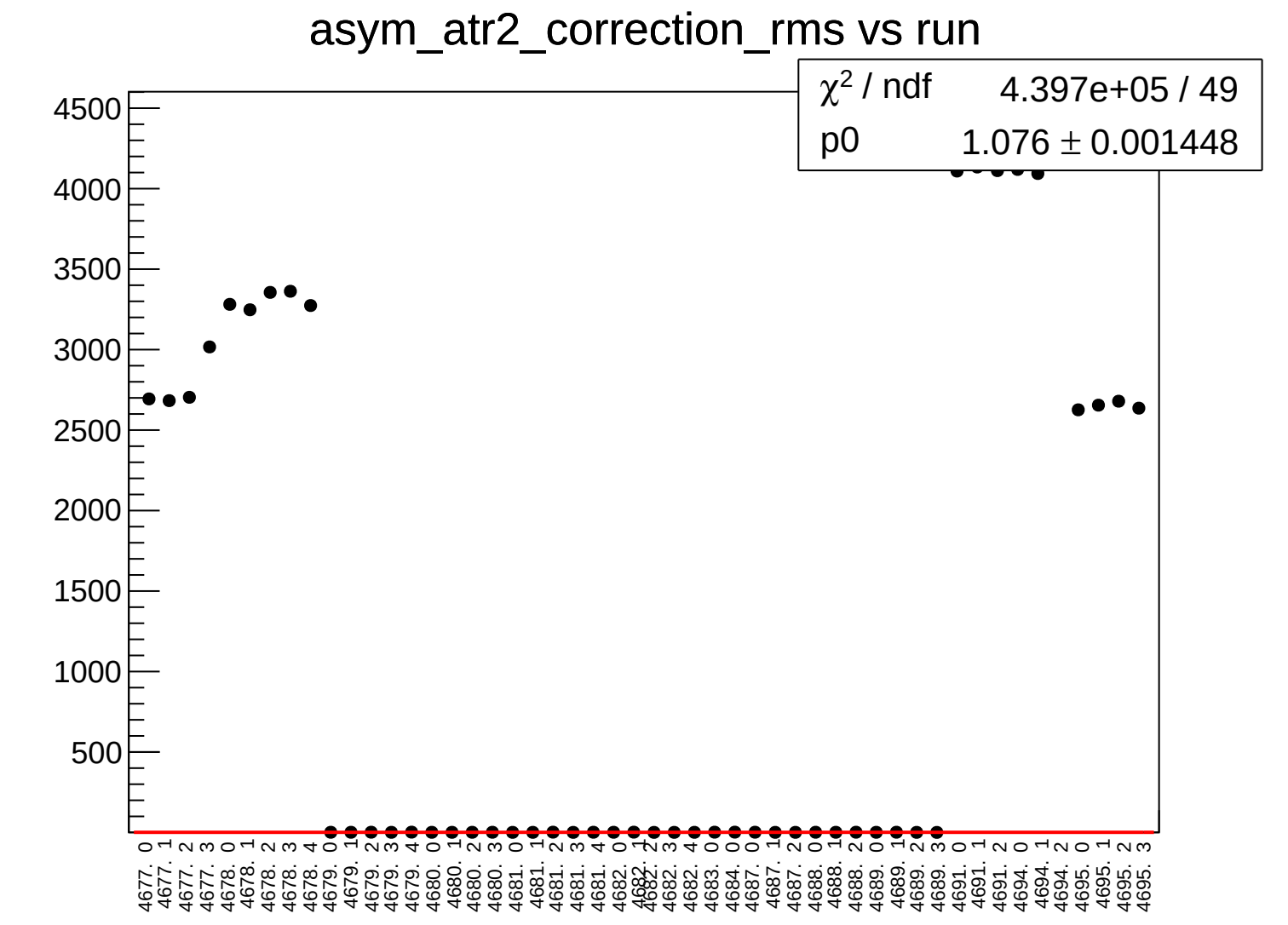
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_atr2_correction_mean vs run
×10^3
χ^2 / ndf 36.78 / 49
p0 3.268 ± 2.048
100
50
0
−50
−100
pull
Entries 50
Mean 99.66
Std Dev 64.89
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean 0.00638
Std Dev 0.8576
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 4.397e+05 / 49
p0 1.076 ± 0.001448
4500
4000
3500
3000
2500
2000
1500
1000
500
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
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4682. 4
4683. 0
4684. 0
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4687. 2
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4688. 1
4688. 2
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4689. 1
4689. 2
4689. 3
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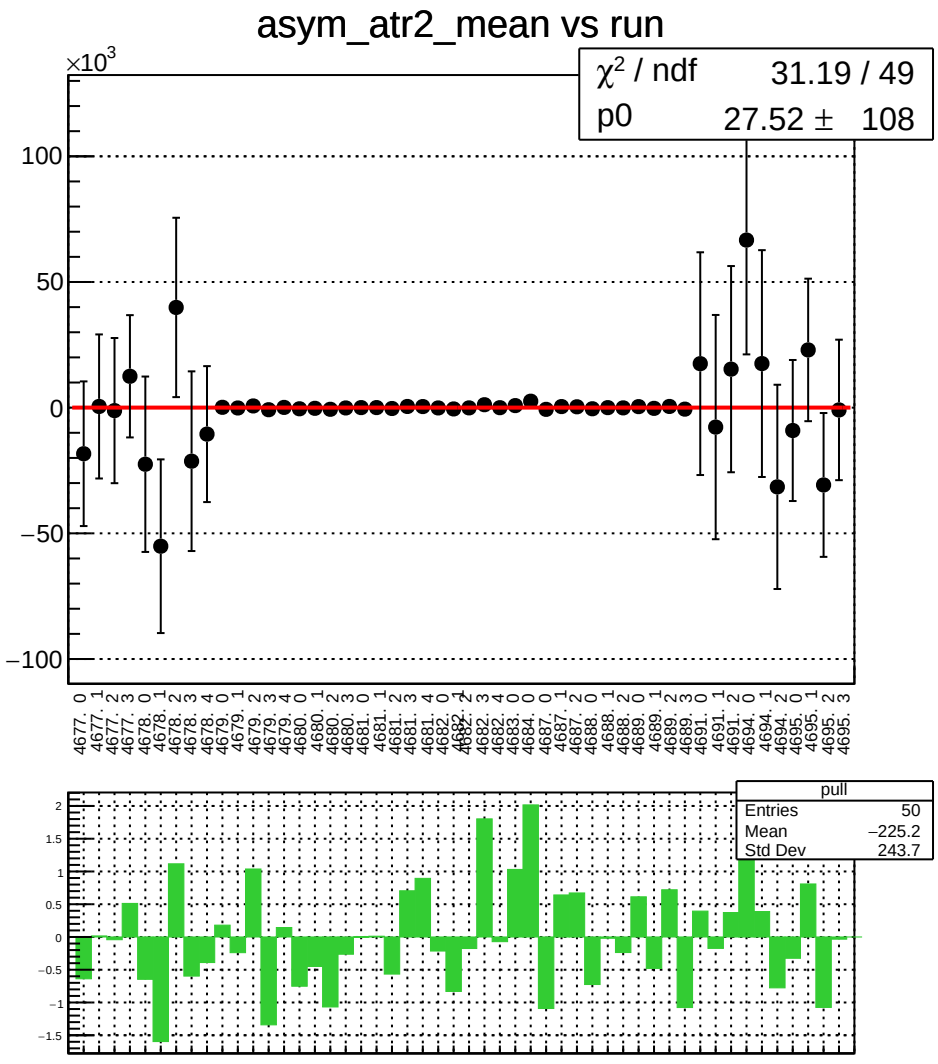
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_atr2_mean vs run
×10^3
χ^2 / ndf 31.19 / 49
p0 27.52 ± 108
100
50
0
−50
−100
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
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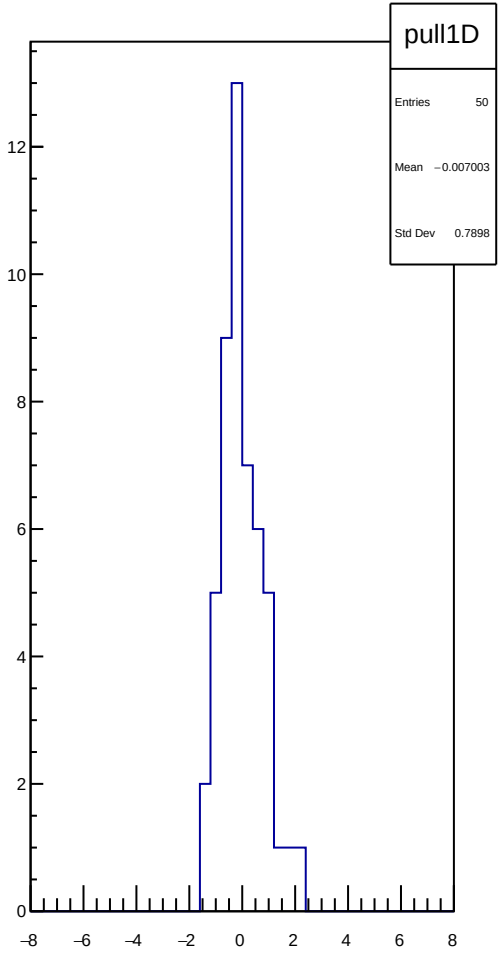
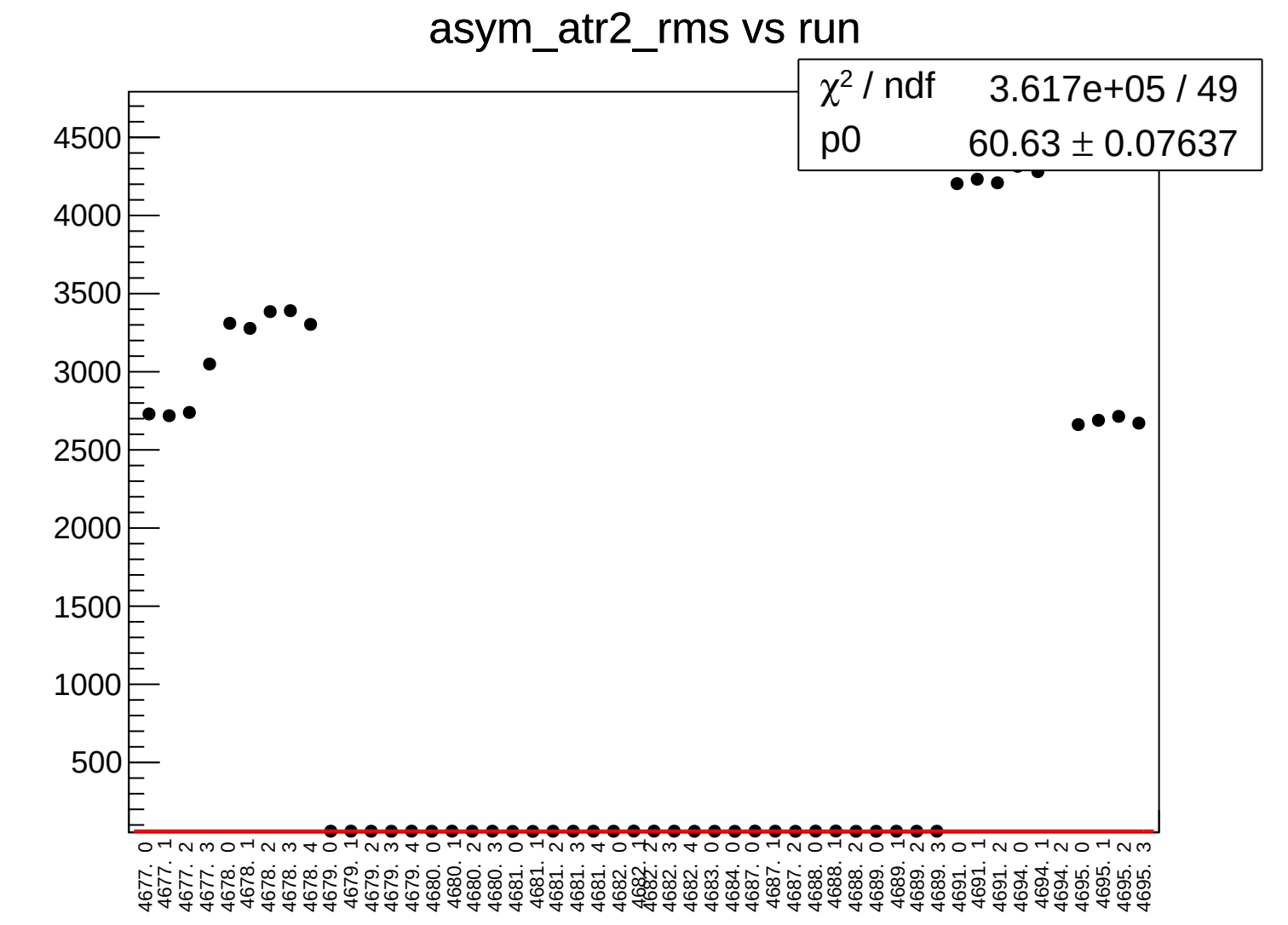
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4688. 3
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean −225.2
Std Dev 243.7
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 50
Mean −0.007003
Std Dev 0.7898
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr2_rms vs run
χ² / ndf 3.617e+05 / 49
p0 60.63 ± 0.07637
4500
4000
3500
3000
2500
2000
1500
1000
500
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
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4688. 2
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4689. 1
4689. 2
4689. 3
4691. 0
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4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
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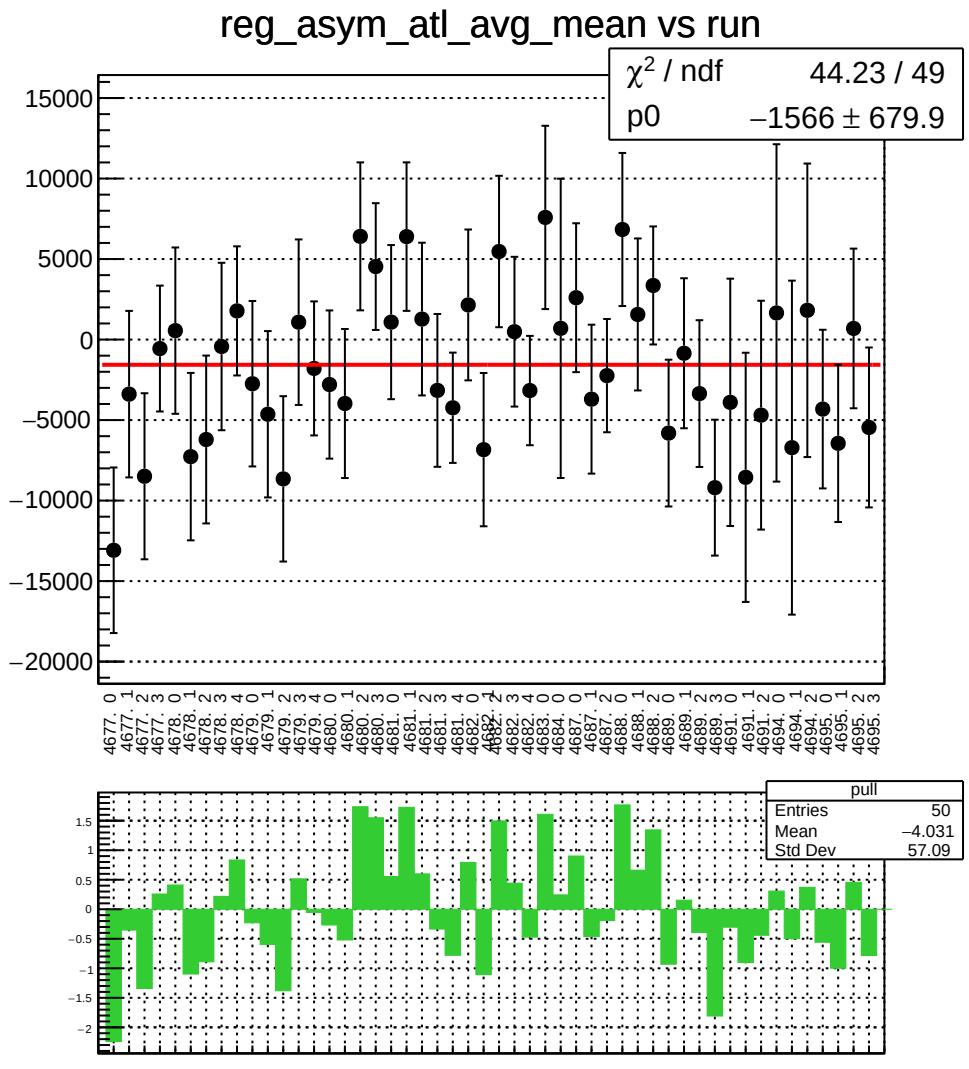
4695. 2
4695. 3


reg_asym_atl_avg_mean vs run
χ² / ndf 44.23 / 49
p0 −1566 ± 679.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
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4680. 2
4680. 3
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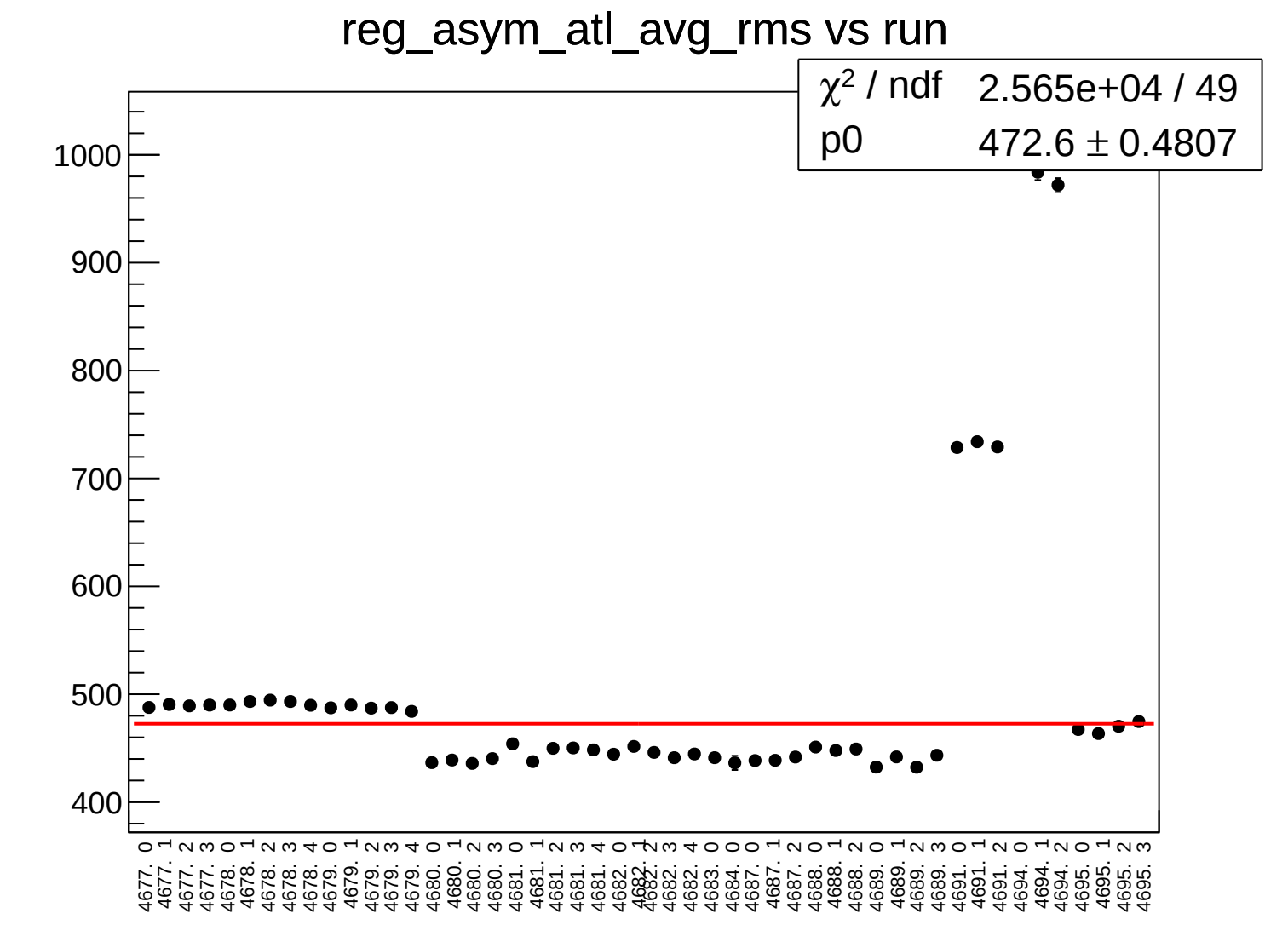
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean −4.031
Std Dev 57.09
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean −0.01978
Std Dev 0.9403
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_rms vs run
χ² / ndf 2.565e+04 / 49
p0 472.6 ± 0.4807
1000
900
800
700
600
500
400
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
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4678. 3
4678. 4
4679. 0
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4679. 2
4679. 3
4679. 4
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4680. 1
4680. 2
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4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
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4689. 2
4689. 3
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4691. 2
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4694. 2
4695. 0
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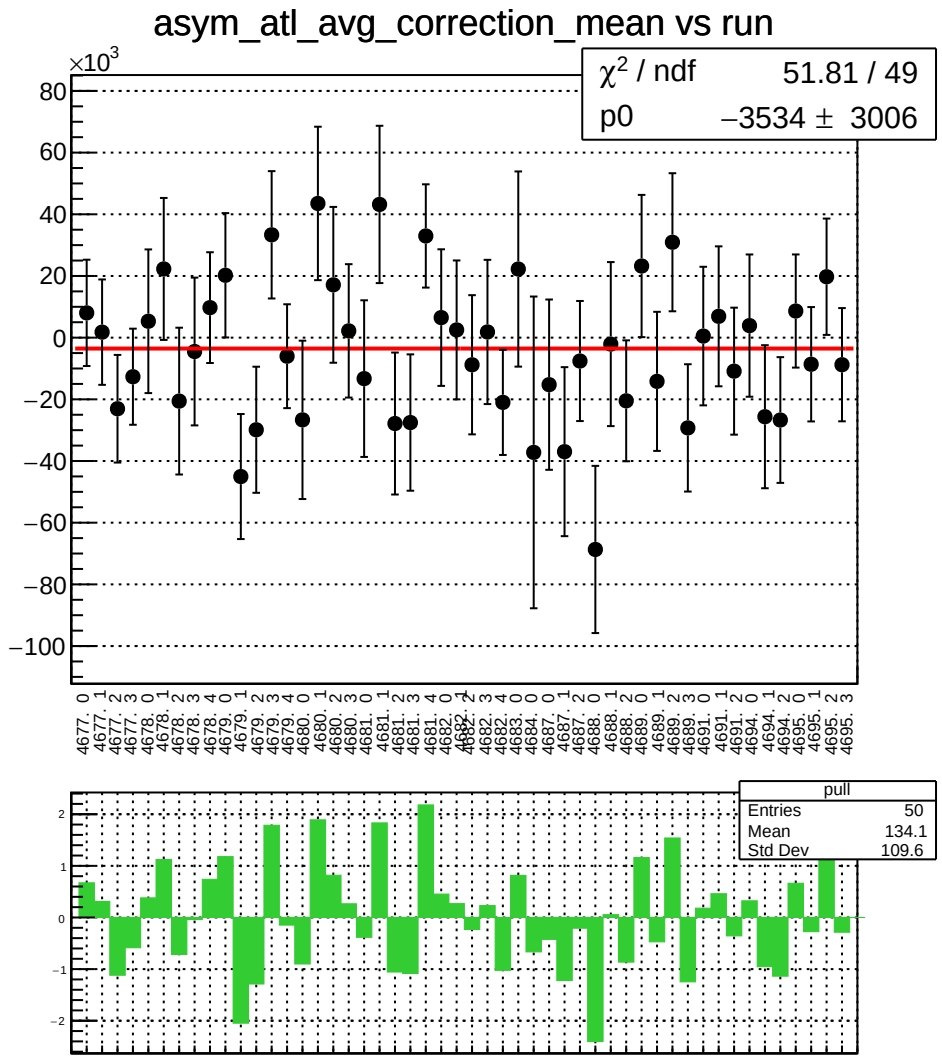
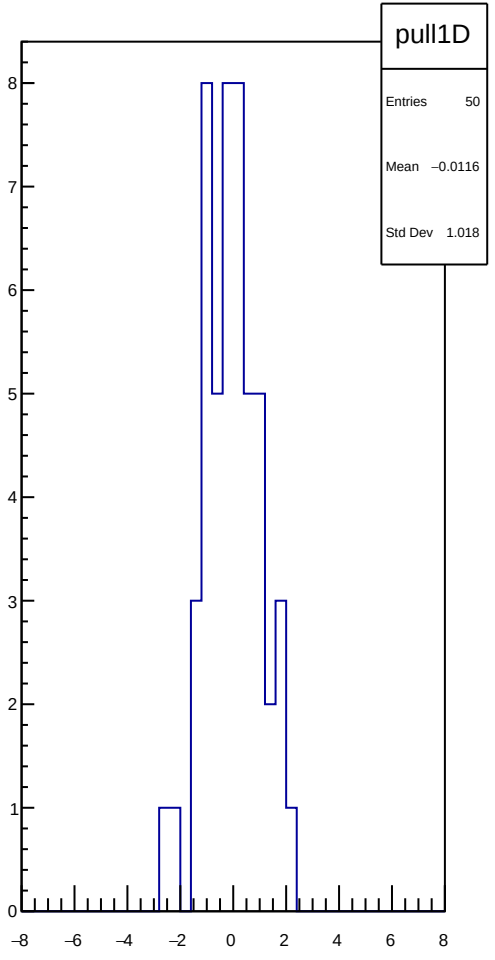
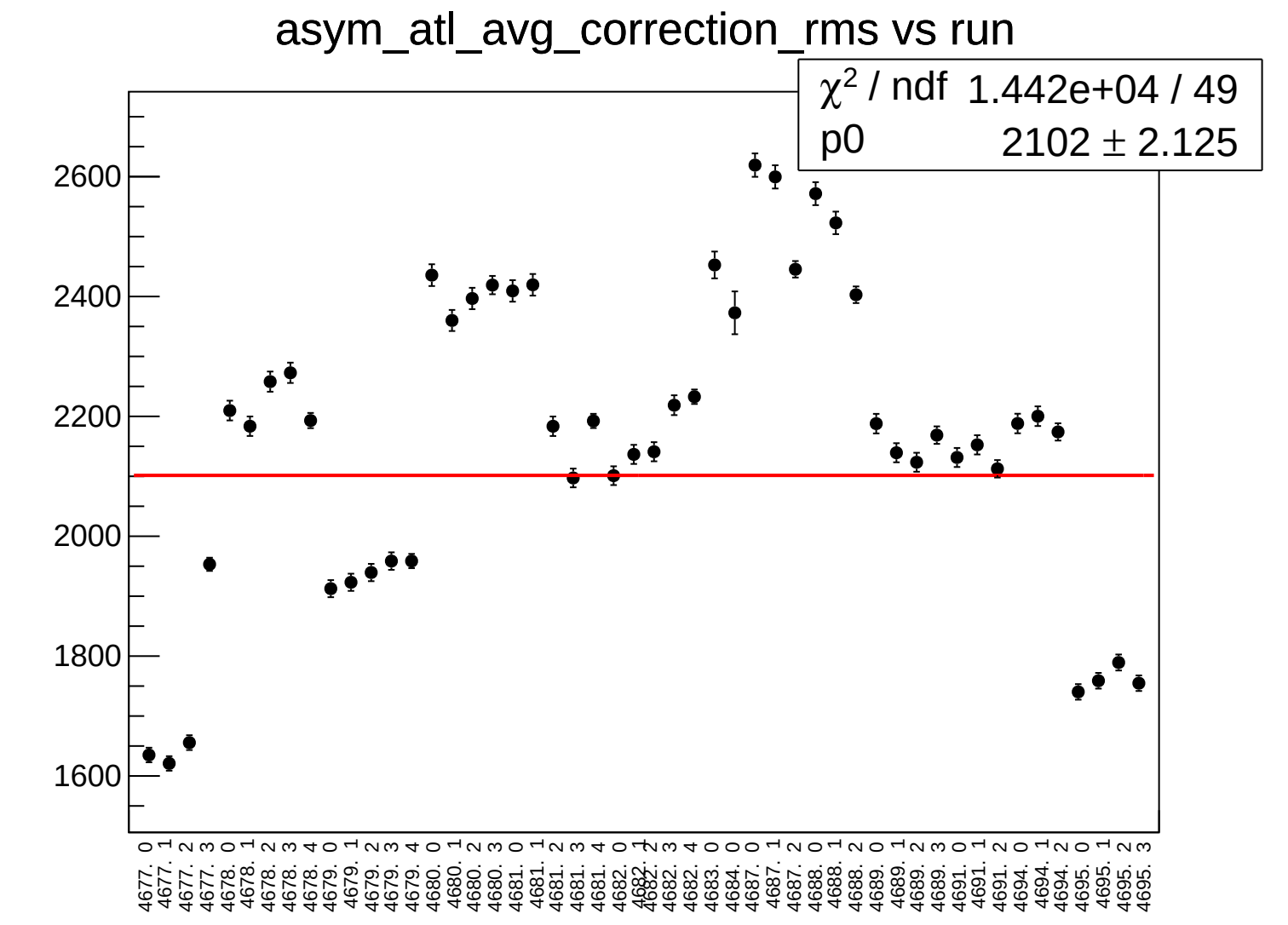
4695. 3


asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 51.81 / 49
p0 −3534 ± 3006
pull
Entries 50
Mean 134.1
Std Dev 109.6


pull1D
Entries 50
Mean −0.0116
Std Dev 1.018


asym_atl_avg_correction_rms vs run
χ² / ndf 1.442e+04 / 49
p0 2102 ± 2.125
2600
2400
2200
2000
1800
1600
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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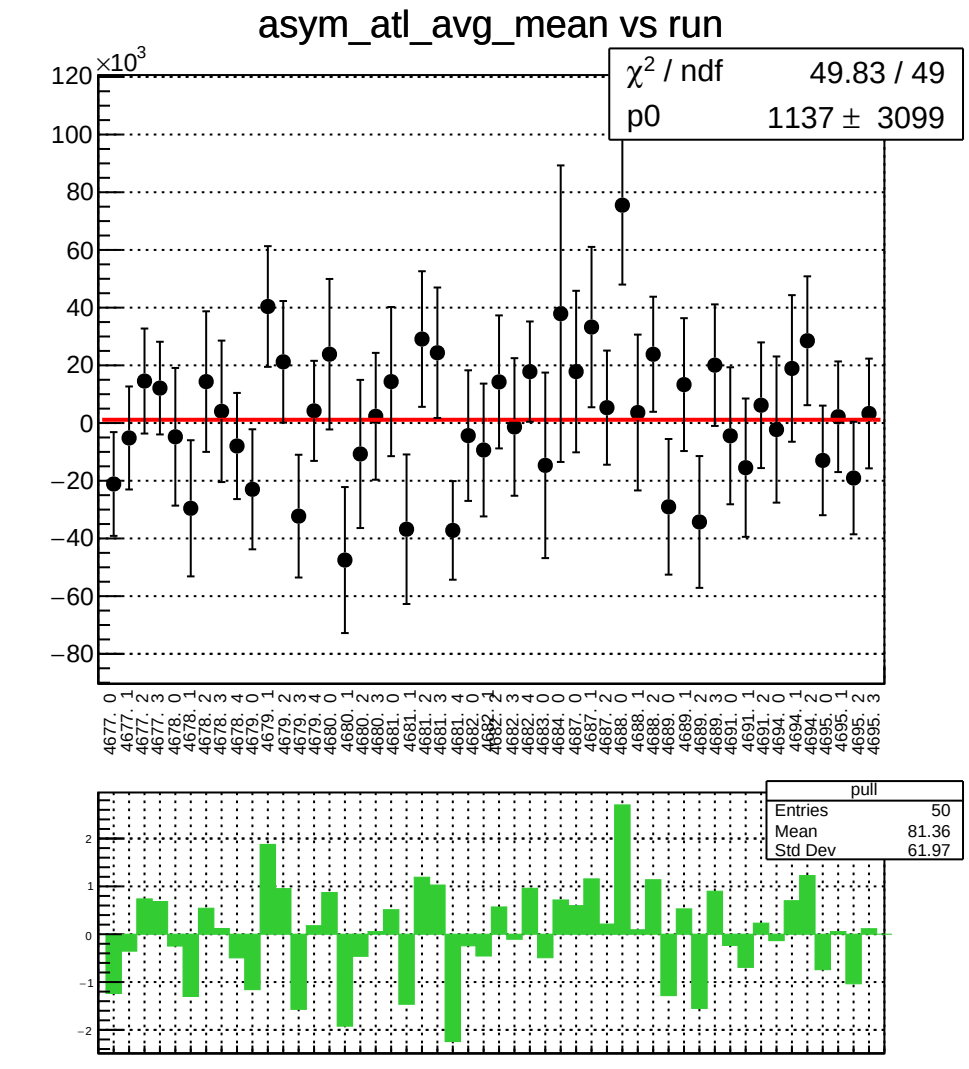
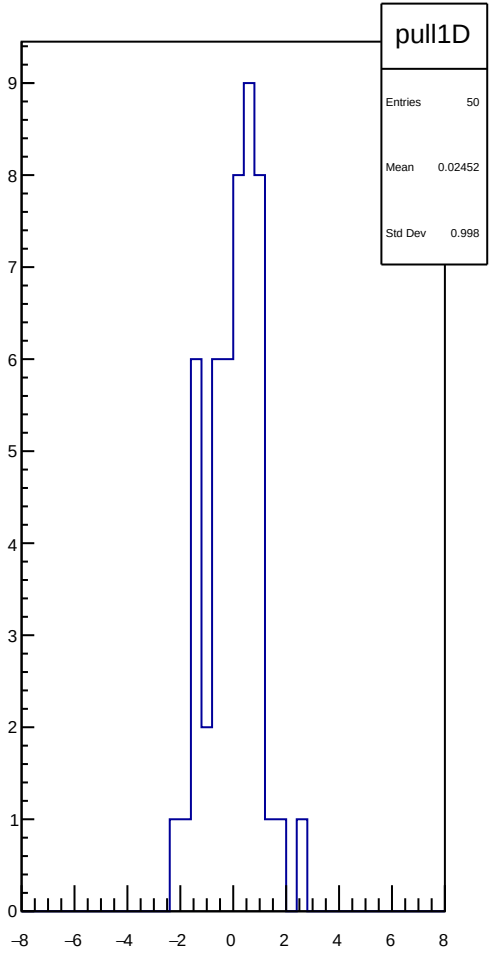
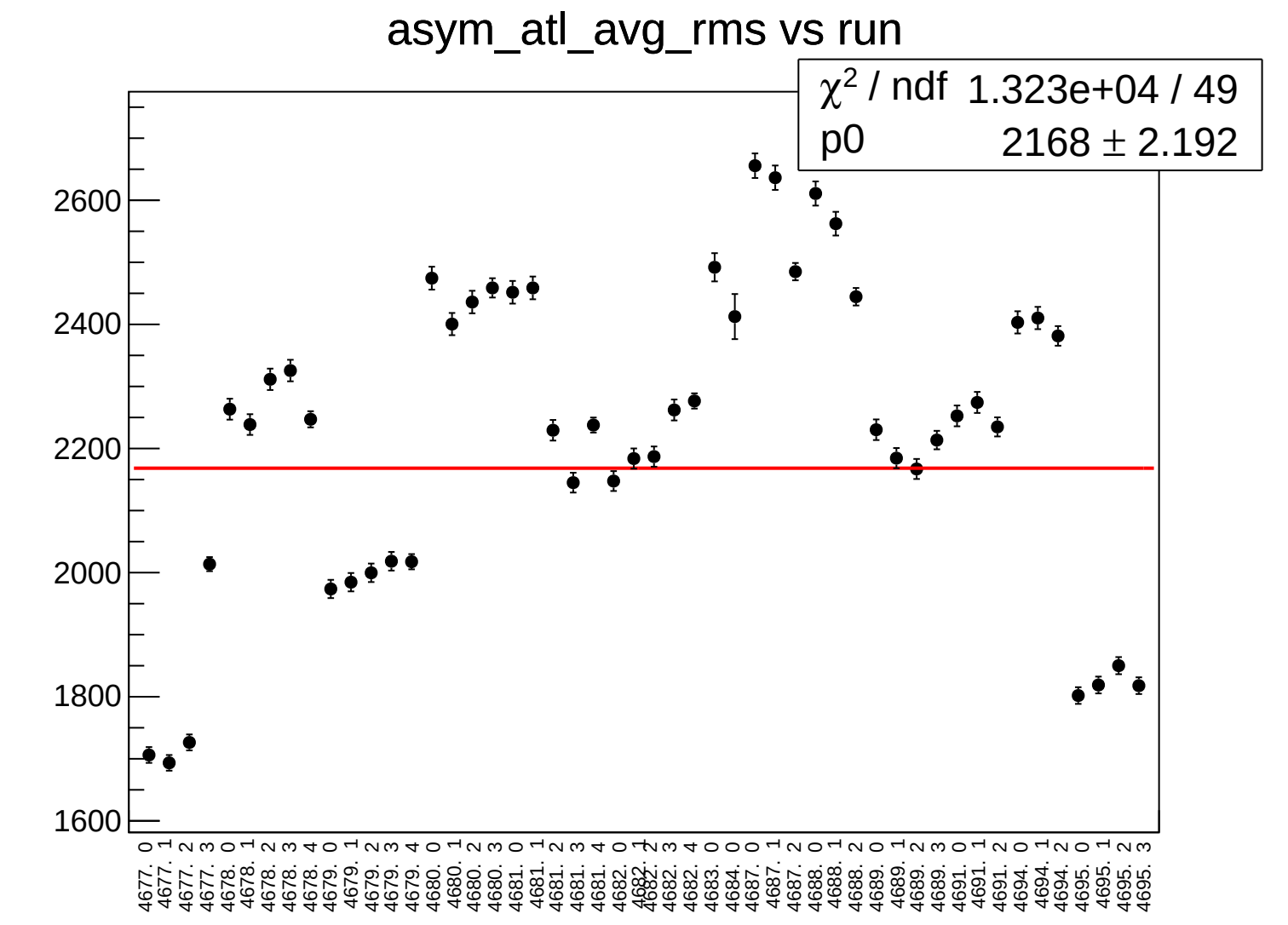
4695. 2
4695. 3


asym_atl_avg_mean vs run
χ² / ndf 49.83 / 49
p0 1137 ± 3099
×10³
pull
Entries 50
Mean 81.36
Std Dev 61.97


pull1D
Entries 50
Mean 0.02452
Std Dev 0.998


asym_atl_avg_rms vs run
χ² / ndf 1.323e+04 / 49
p0 2168 ± 2.192
2600
2400
2200
2000
1800
1600
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
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4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4691. 2
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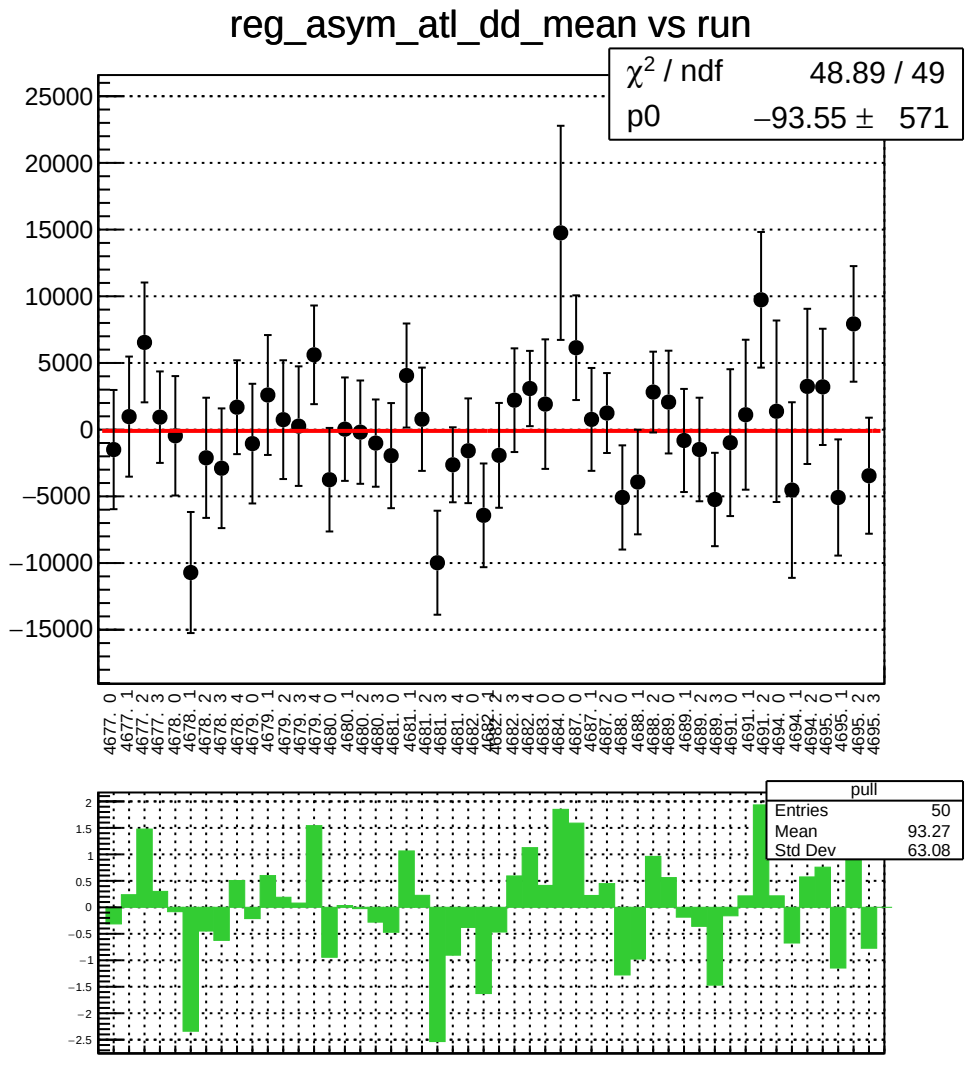
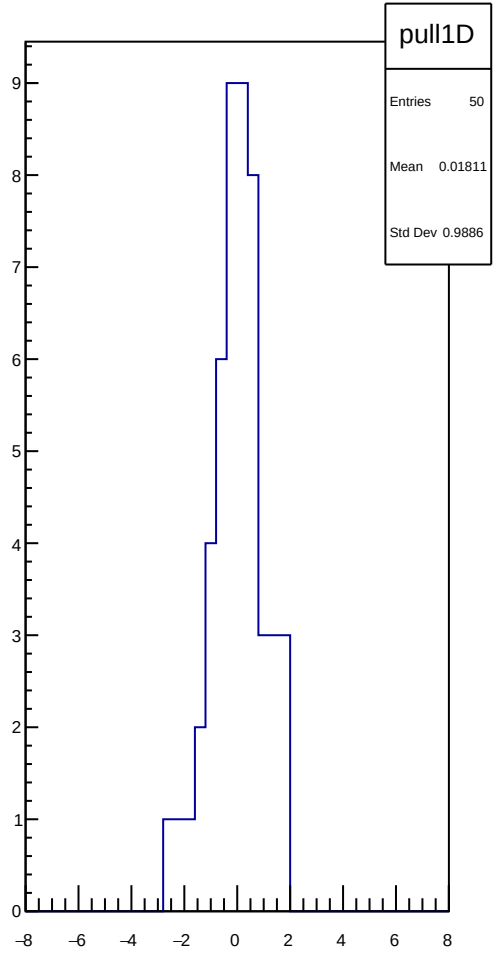
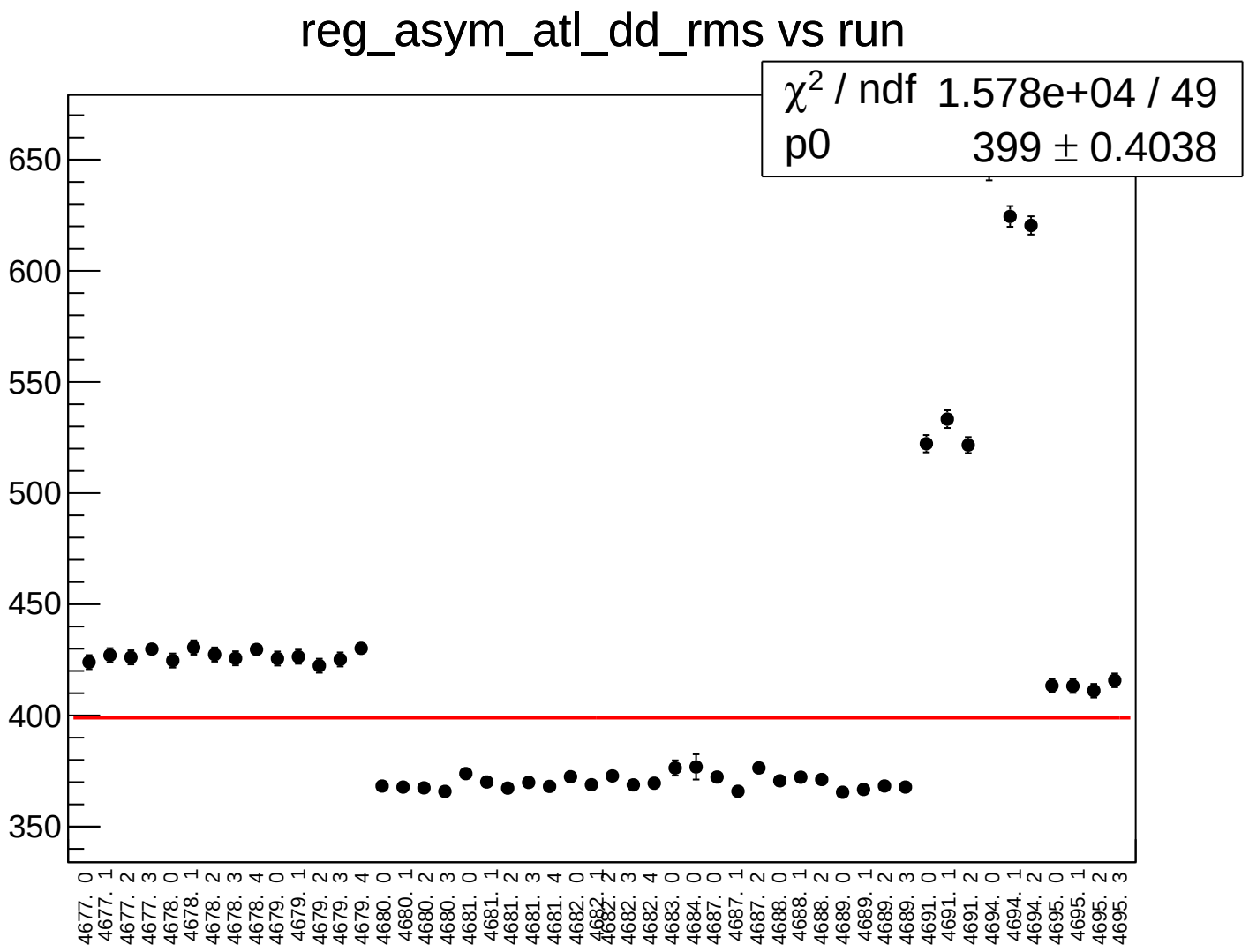
4695. 3


reg_asym_atl_dd_mean vs run
χ² / ndf 48.89 / 49
p0 −93.55 ± 571
pull
Entries 50
Mean 93.27
Std Dev 63.08


pull1D
Entries 50
Mean 0.01811
Std Dev 0.9886


reg_asym_atl_dd_rms vs run
χ² / ndf 1.578e+04 / 49
p0 399 ± 0.4038
650
600
550
500
450
400
350
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
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4680. 2
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4681. 0
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4682. 2
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4682. 4
4683. 0
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4694. 0
4694. 1
4694. 2
4695. 0
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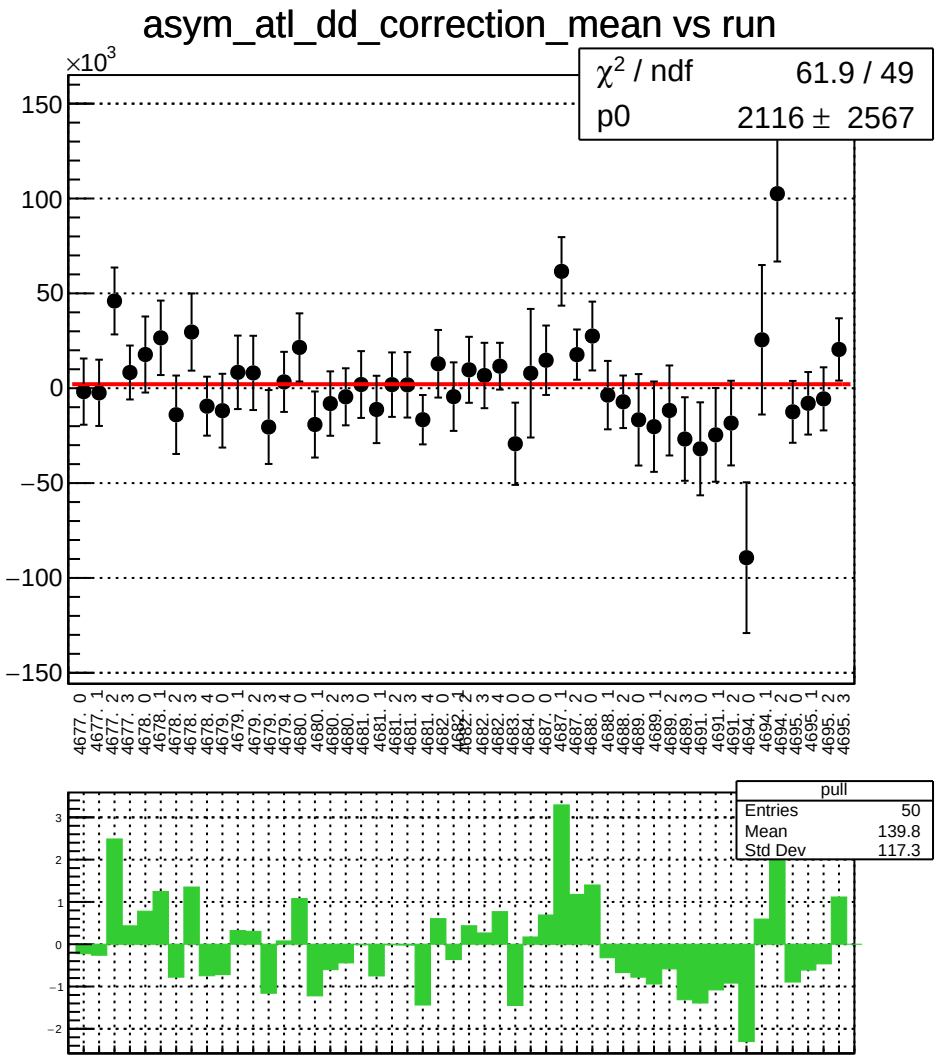
4695. 2
4695. 3


asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 61.9 / 49
p0 2116 ± 2567
150
100
50
0
−50
−100
−150
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
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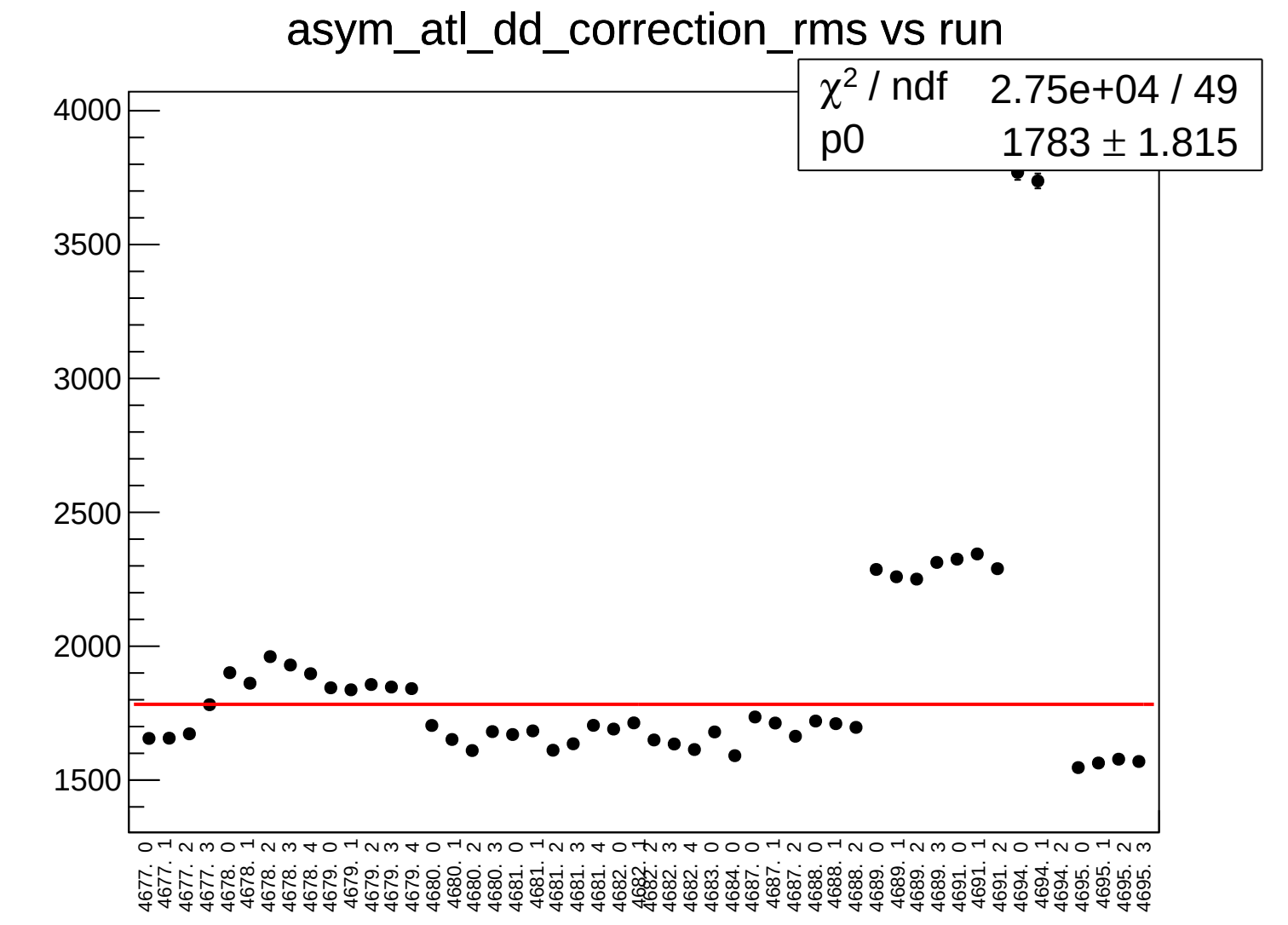
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 139.8
Std Dev 117.3
3
2
1
0
−1
−2
pull1D
Entries 50
Mean −0.02057
Std Dev 1.112
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_correction_rms vs run
χ² / ndf 2.75e+04 / 49
p0 1783 ± 1.815
4000
3500
3000
2500
2000
1500
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
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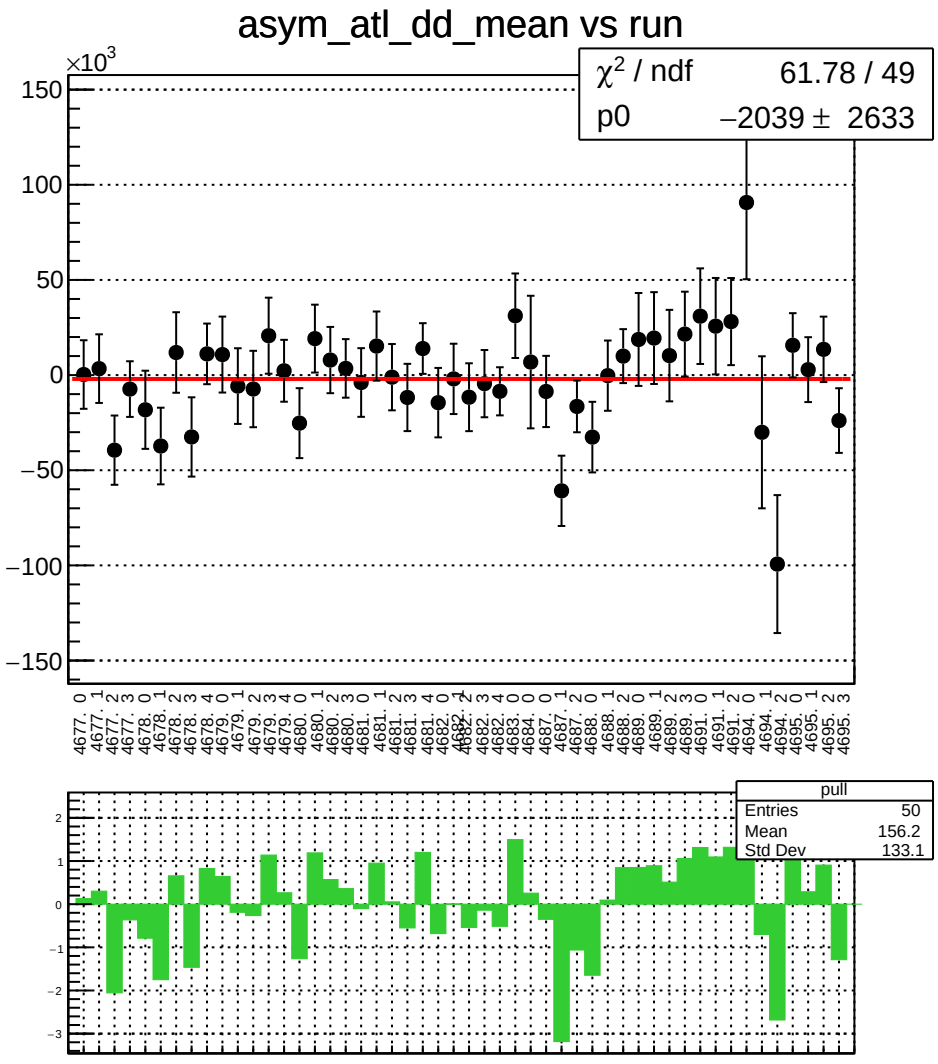
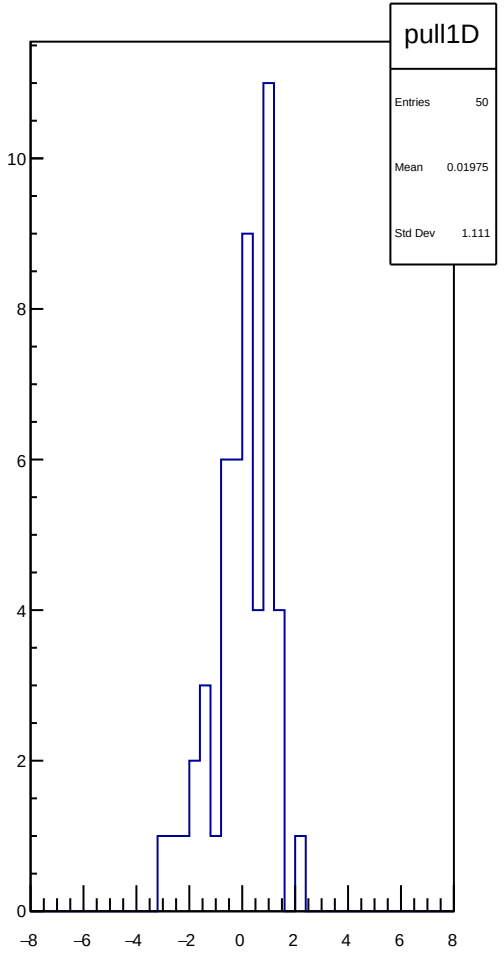
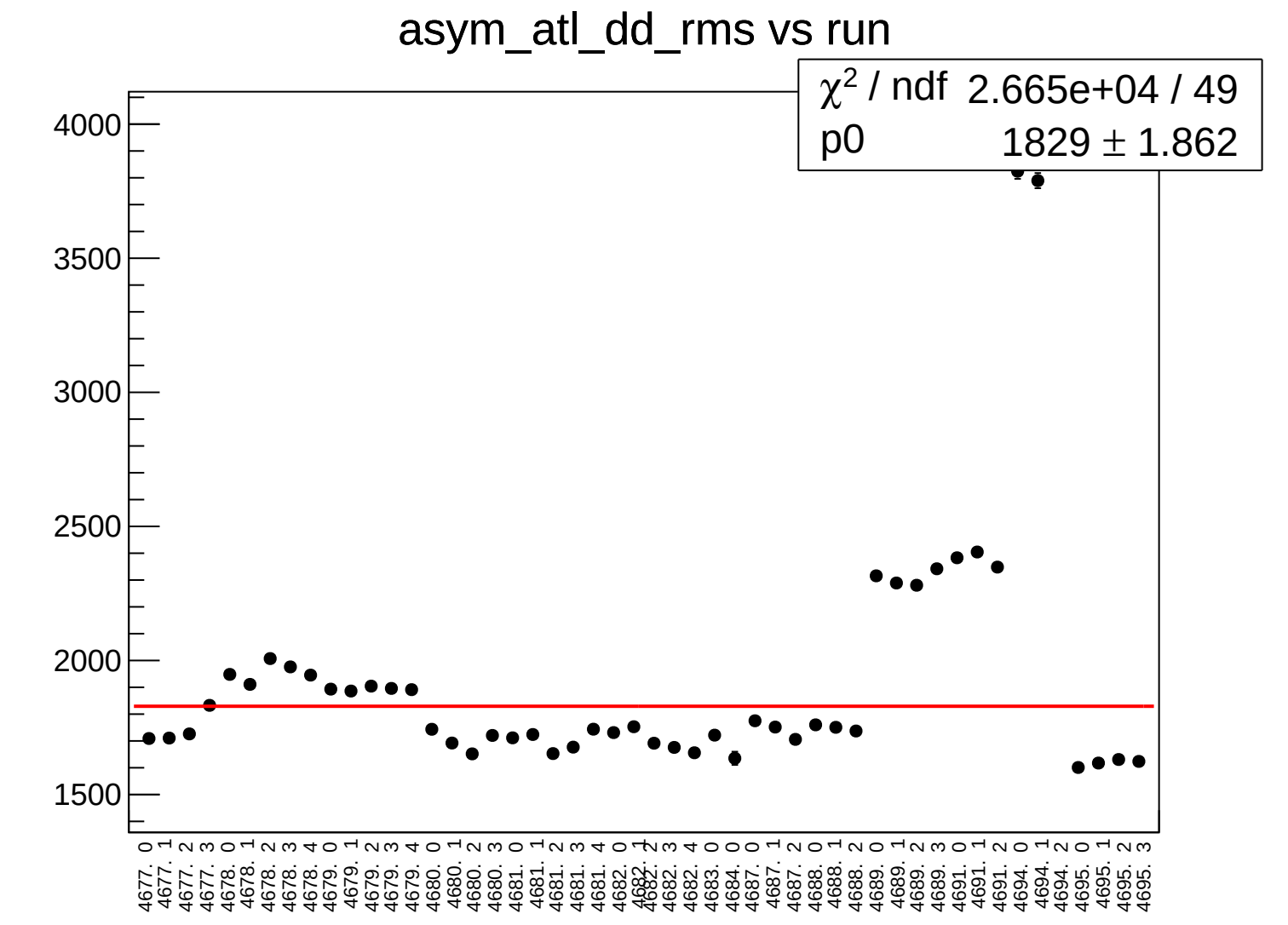
4695. 2
4695. 3


asym_atl_dd_mean vs run
×10^3
χ² / ndf 61.78 / 49
p0 −2039 ± 2633
150
100
50
0
−50
−100
−150
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 156.2
Std Dev 133.1
2
1
0
−1
−2
−3


pull1D
Entries 50
Mean 0.01975
Std Dev 1.111
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_rms vs run
χ² / ndf 2.665e+04 / 49
p0 1829 ± 1.862
4000
3500
3000
2500
2000
1500
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4677. 2
4677. 3
4678. 0
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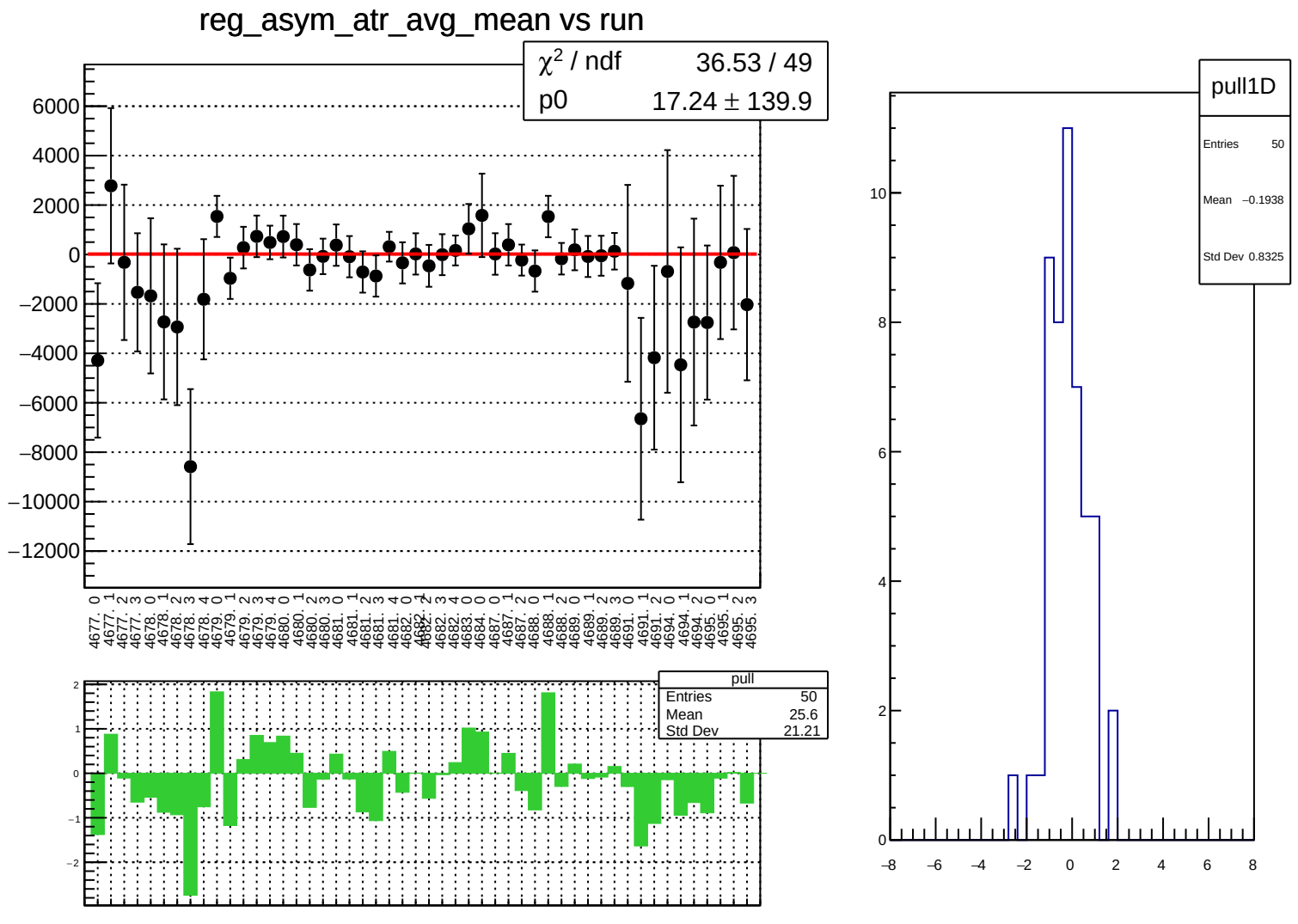
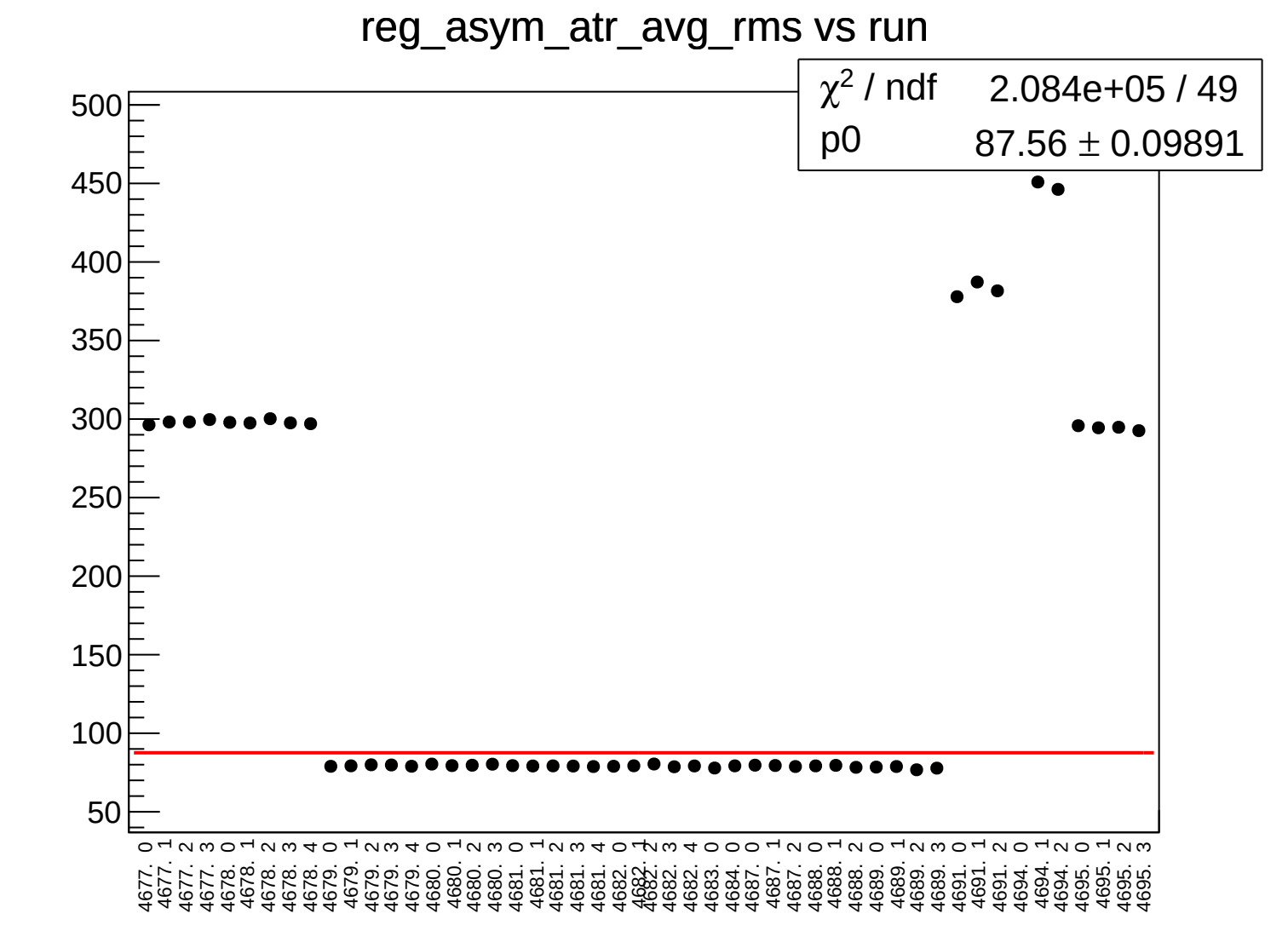
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


reg_asym_atr_avg_mean vs run
χ² / ndf 36.53 / 49
p0 17.24 ± 139.9
pull
Entries 50
Mean 25.6
Std Dev 21.21
pull1D
Entries 50
Mean −0.1938
Std Dev 0.8325


reg_asym_atr_avg_rms vs run
χ² / ndf 2.084e+05 / 49
p0 87.56 ± 0.09891
500
450
400
350
300
250
200
150
100
50
4677. 0
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4677. 2
4677. 3
4678. 0
4678. 1
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4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
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4688. 1
4688. 2
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4689. 1
4689. 2
4689. 3
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4694. 0
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4694. 2
4695. 0
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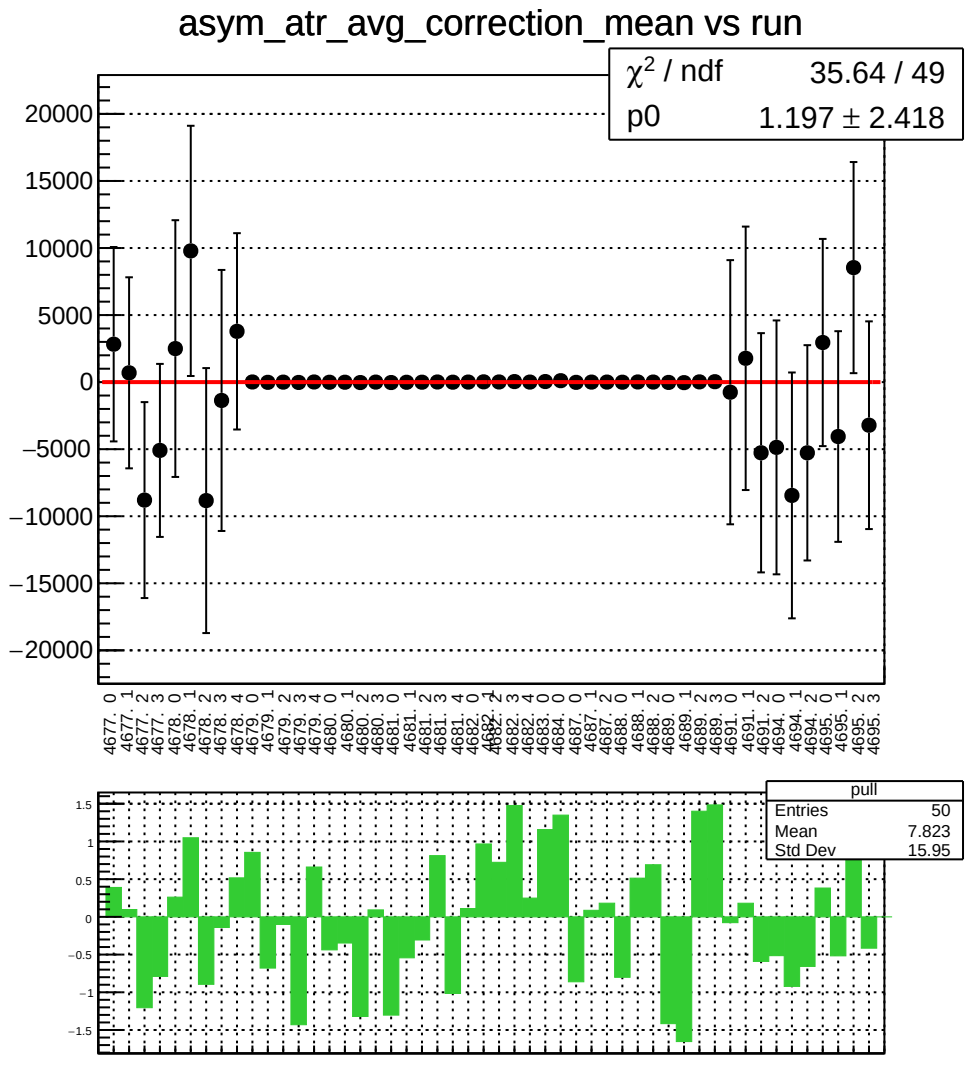
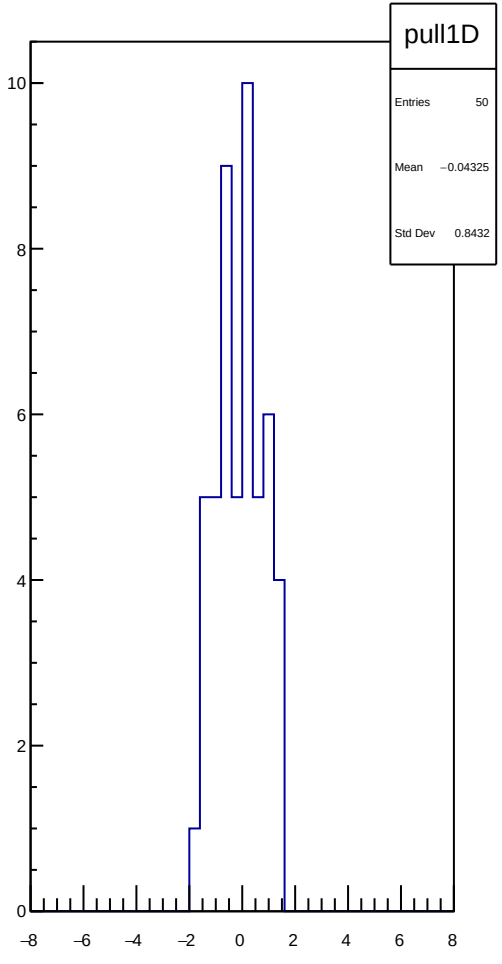
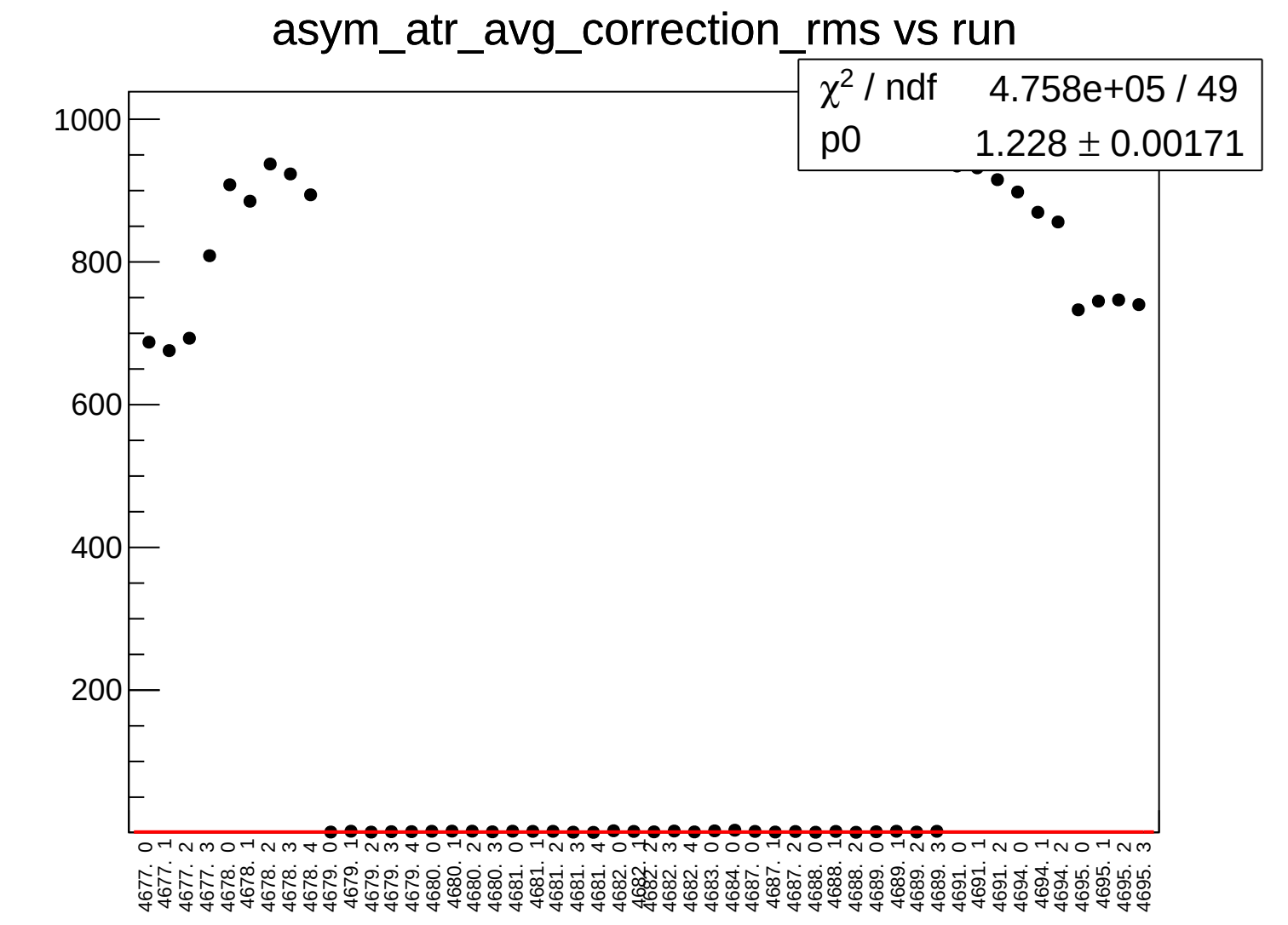
4695. 2
4695. 3


asym_atr_avg_correction_mean vs run
χ² / ndf 35.64 / 49
p0 1.197 ± 2.418
pull
Entries 50
Mean 7.823
Std Dev 15.95


pull1D
Entries 50
Mean −0.04325
Std Dev 0.8432


asym_atr_avg_correction_rms vs run
χ² / ndf 4.758e+05 / 49
p0 1.228 ± 0.00171
1000
800
600
400
200
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4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
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4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
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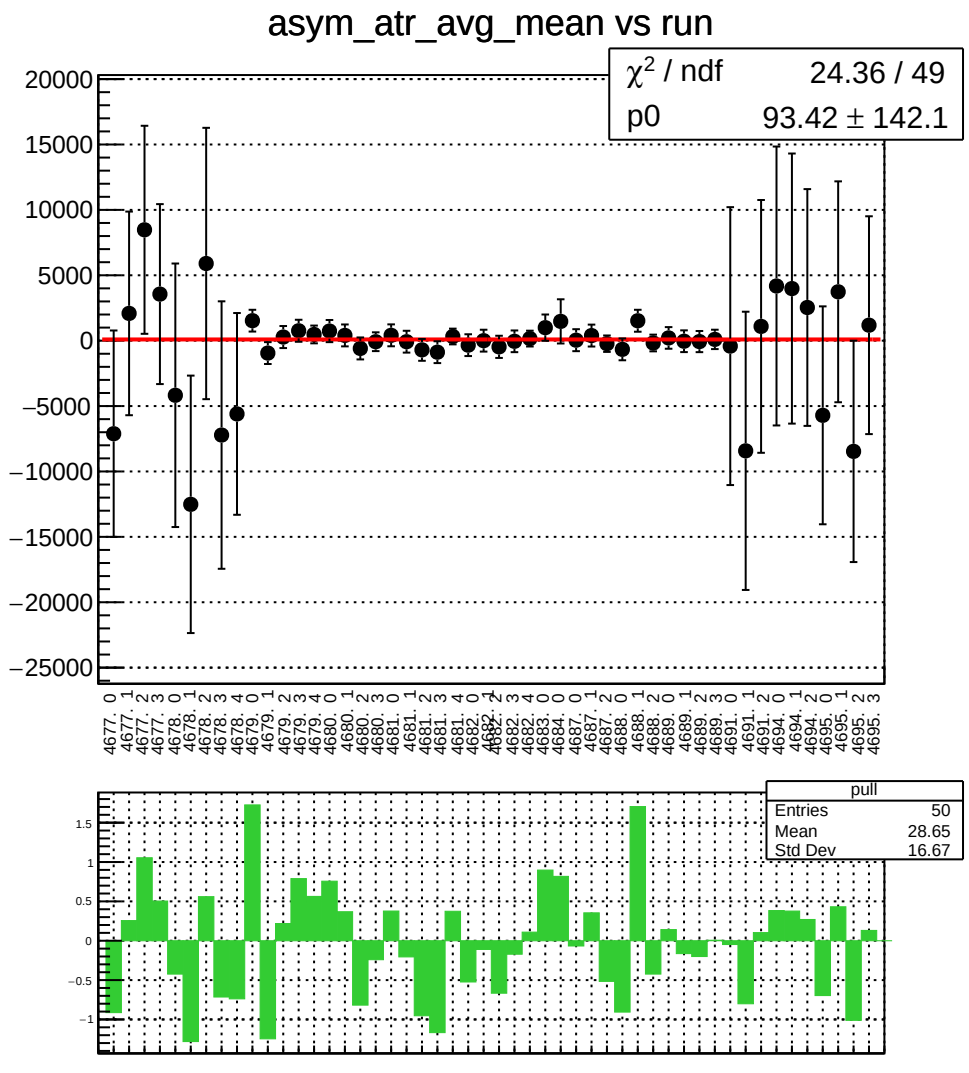
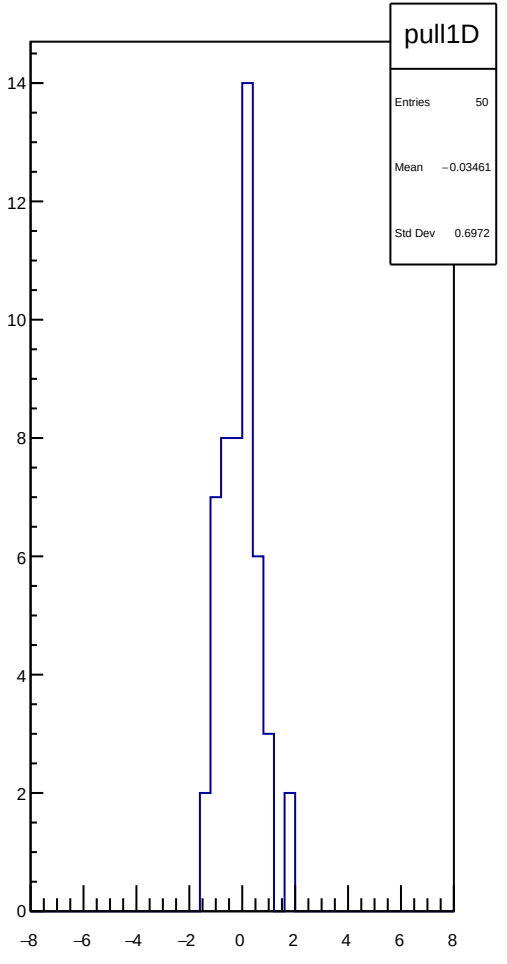
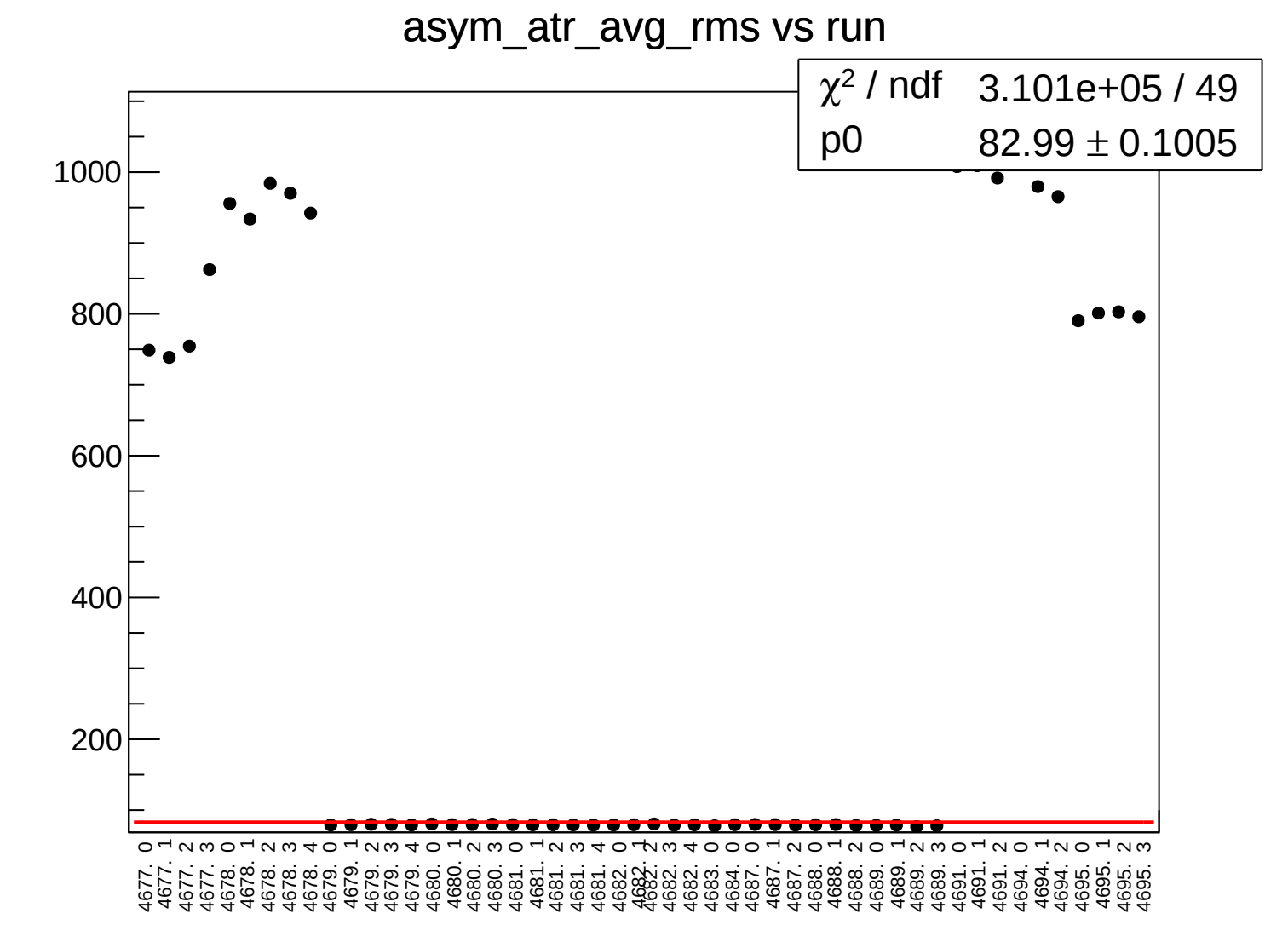
4695. 2
4695. 3


asym_atr_avg_mean vs run
χ² / ndf 24.36 / 49
p0 93.42 ± 142.1
pull
Entries 50
Mean 28.65
Std Dev 16.67


pull1D
Entries 50
Mean −0.03461
Std Dev 0.6972


asym_atr_avg_rms vs run
χ² / ndf 3.101e+05 / 49
p0 82.99 ± 0.1005
1000
800
600
400
200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
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4679. 2
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4679. 4
4680. 0
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4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
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4682. 4
4683. 0
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4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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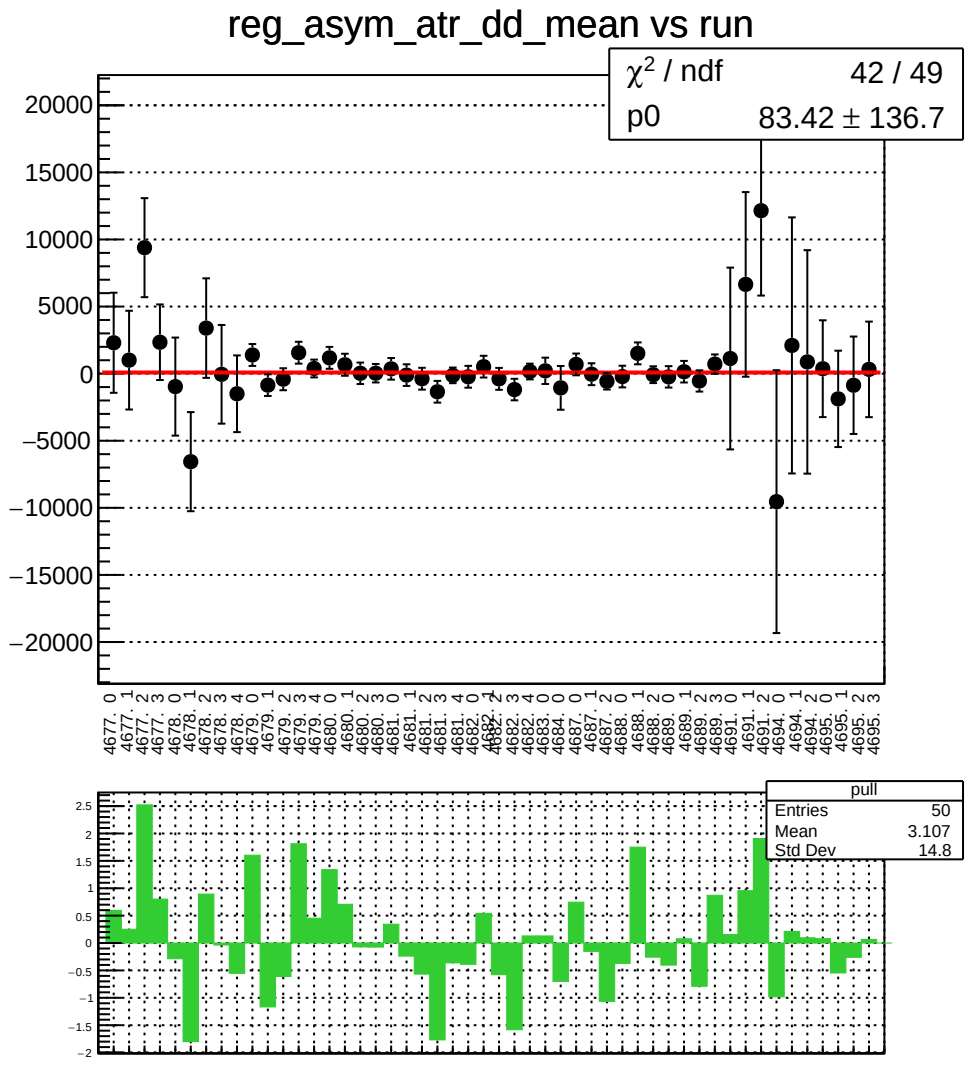
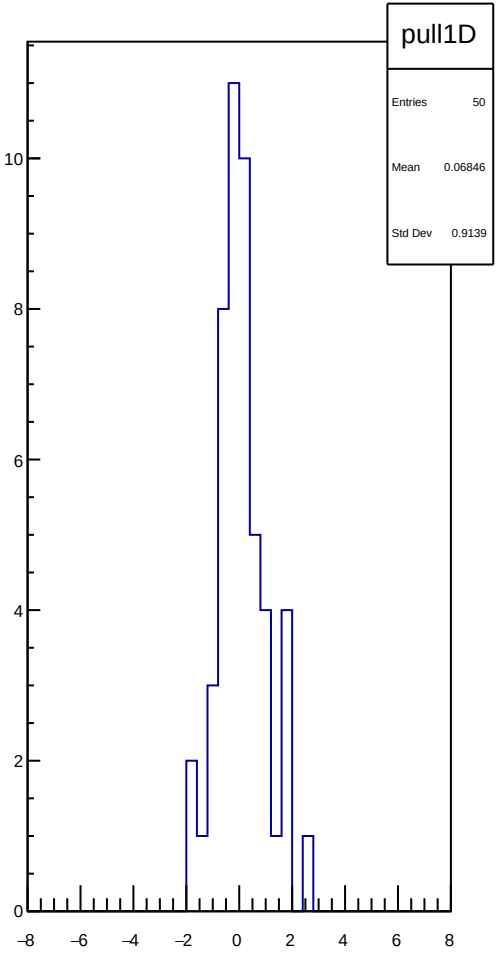
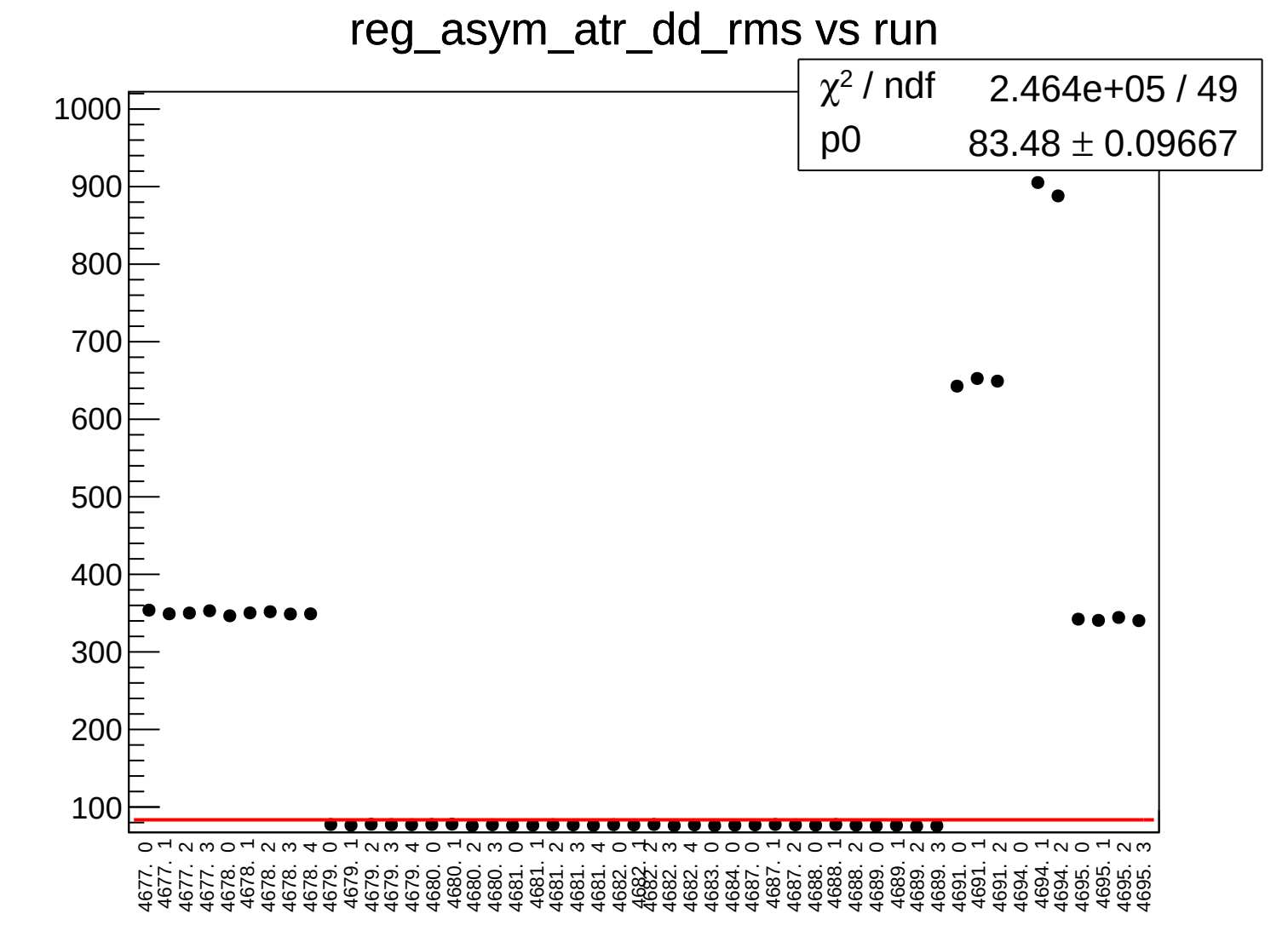
4695. 2
4695. 3


reg_asym_atr_dd_mean vs run
χ² / ndf 42 / 49
p0 83.42 ± 136.7
pull
Entries 50
Mean 3.107
Std Dev 14.8


pull1D
Entries 50
Mean 0.06846
Std Dev 0.9139


reg_asym_atr_dd_rms vs run
χ² / ndf 2.464e+05 / 49
p0 83.48 ± 0.09667
1000
900
800
700
600
500
400
300
200
100
4677. 0
4677. 1
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4677. 3
4678. 0
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4678. 3
4678. 4
4679. 0
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4679. 2
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4679. 4
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4680. 2
4680. 3
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4681. 2
4681. 3
4681. 4
4682. 0
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4682. 2
4682. 3
4682. 4
4683. 0
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4687. 1
4687. 2
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4688. 2
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4689. 3
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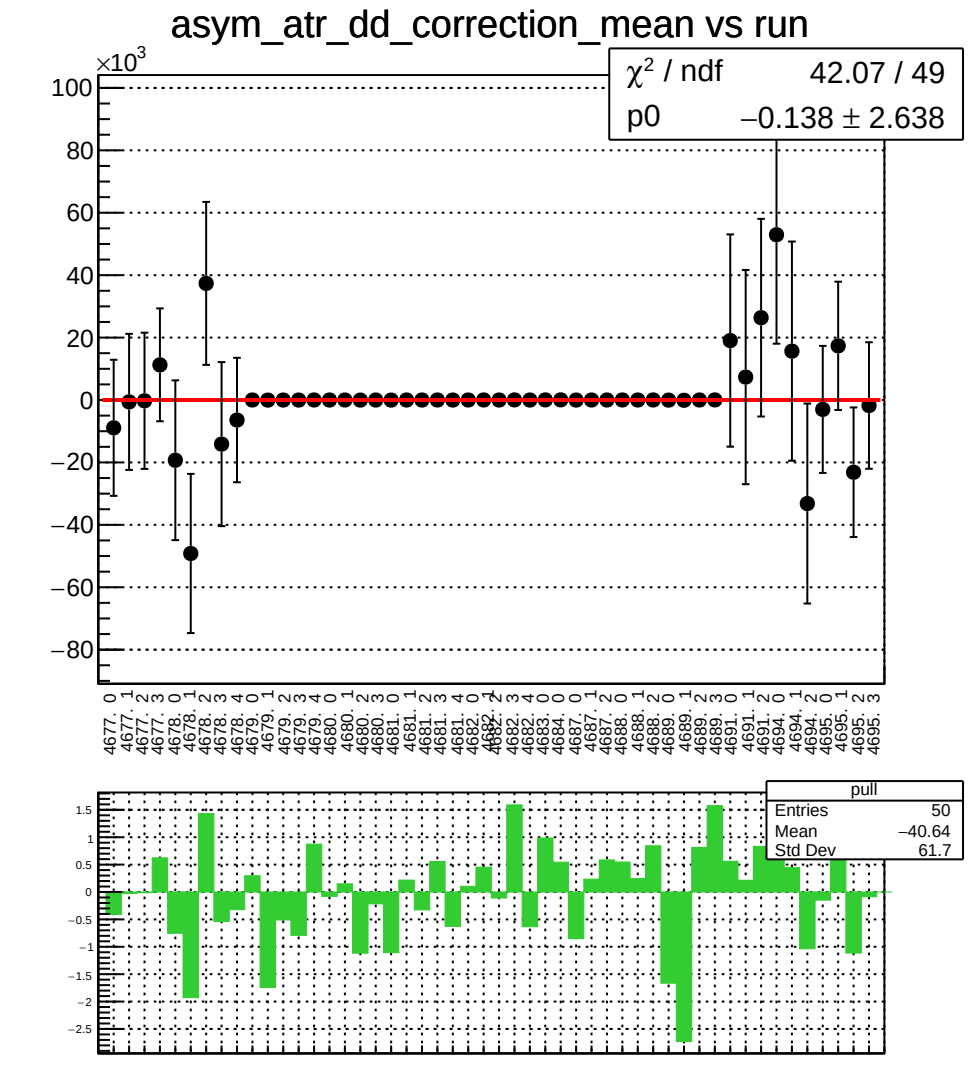
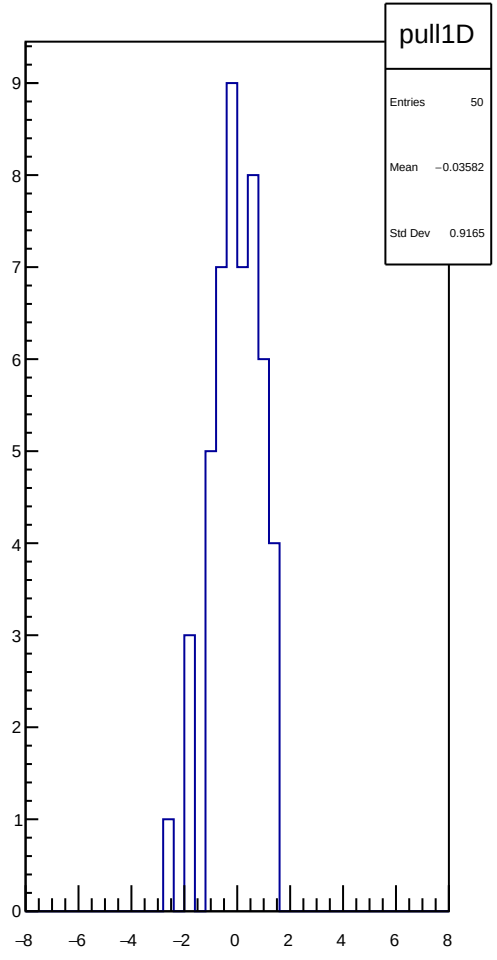
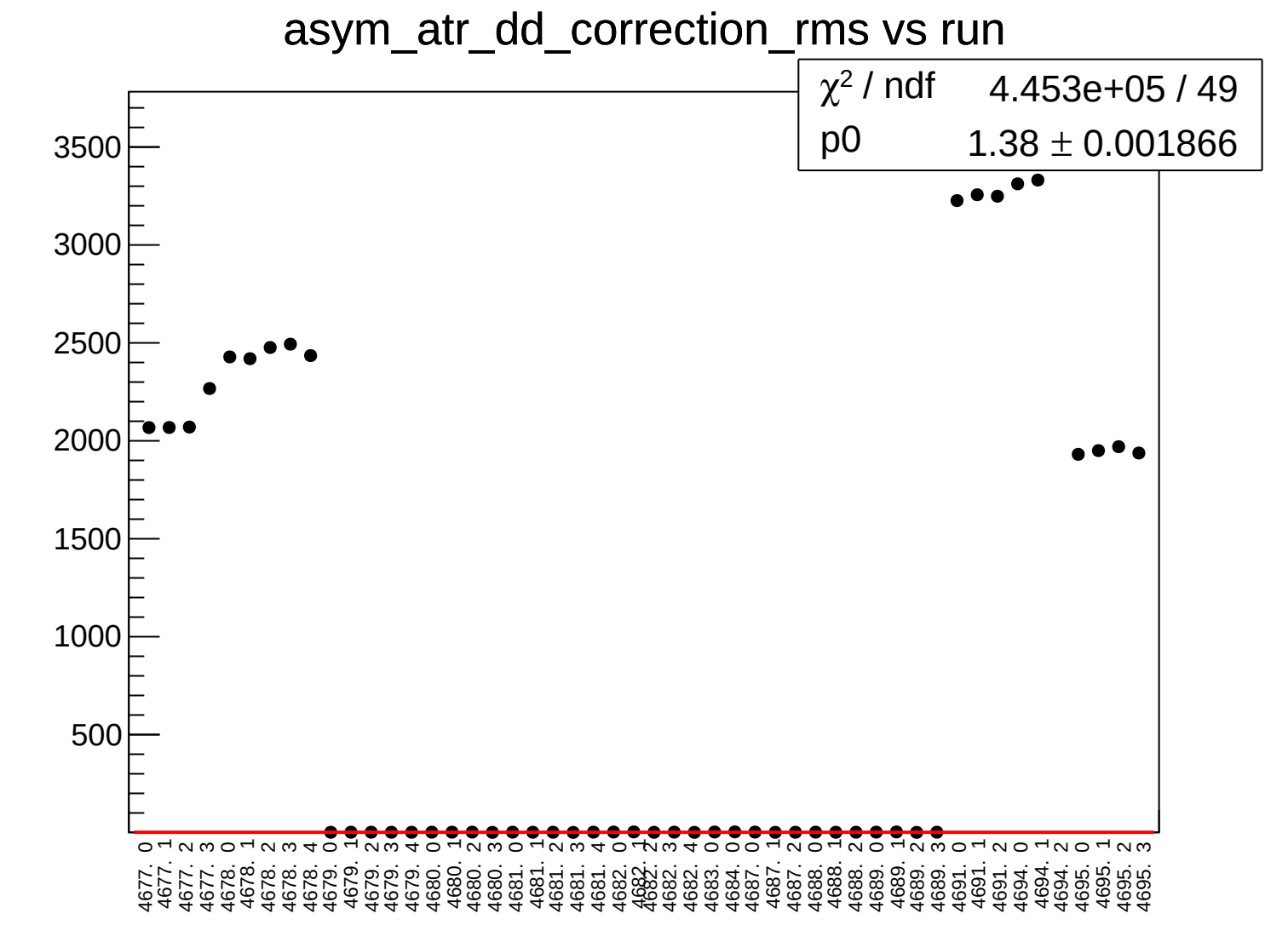
4695. 3


asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 42.07 / 49
p0 −0.138 ± 2.638
pull
Entries 50
Mean −40.64
Std Dev 61.7


pull1D
Entries 50
Mean −0.03582
Std Dev 0.9165


asym_atr_dd_correction_rms vs run
χ² / ndf 4.453e+05 / 49
p0 1.38 ± 0.001866
3500
3000
2500
2000
1500
1000
500
4677. 0
4677. 1
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4678. 0
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4678. 4
4679. 0
4679. 1
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4679. 4
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4680. 2
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4681. 2
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4681. 4
4682. 0
4682. 1
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4682. 4
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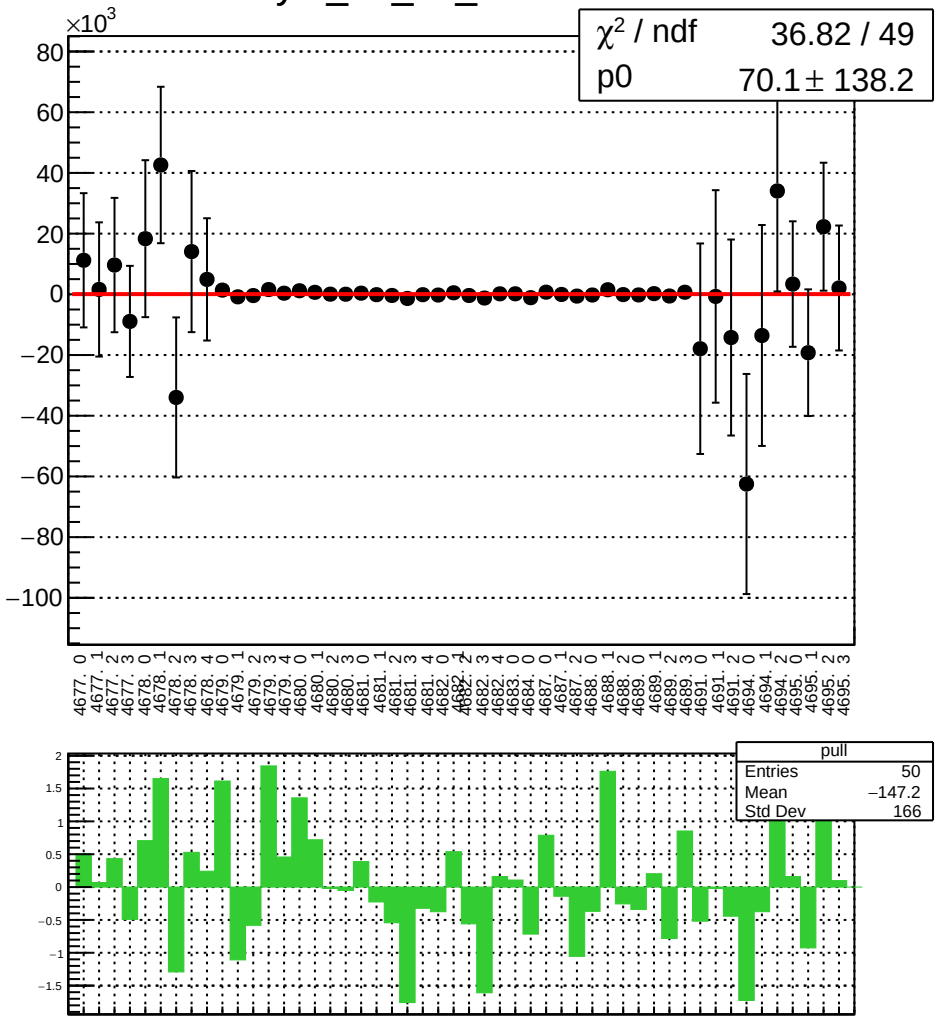
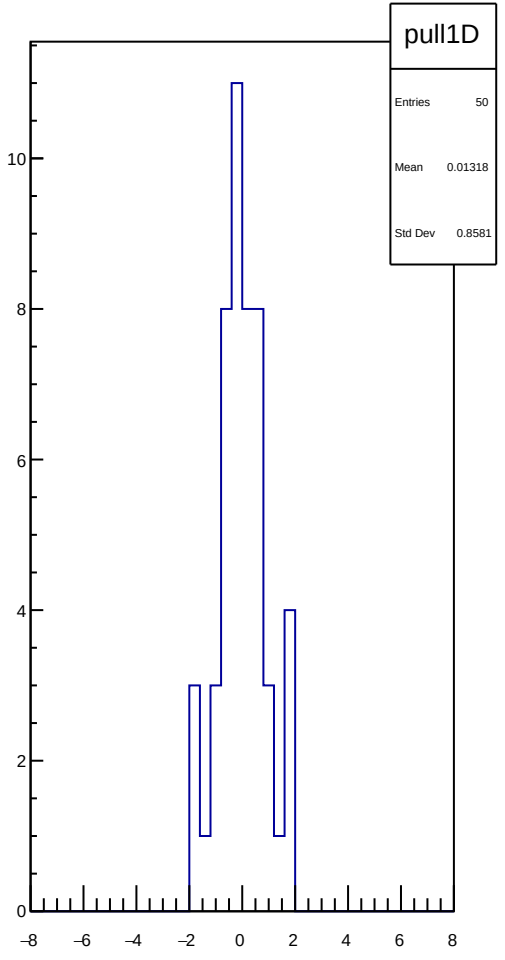
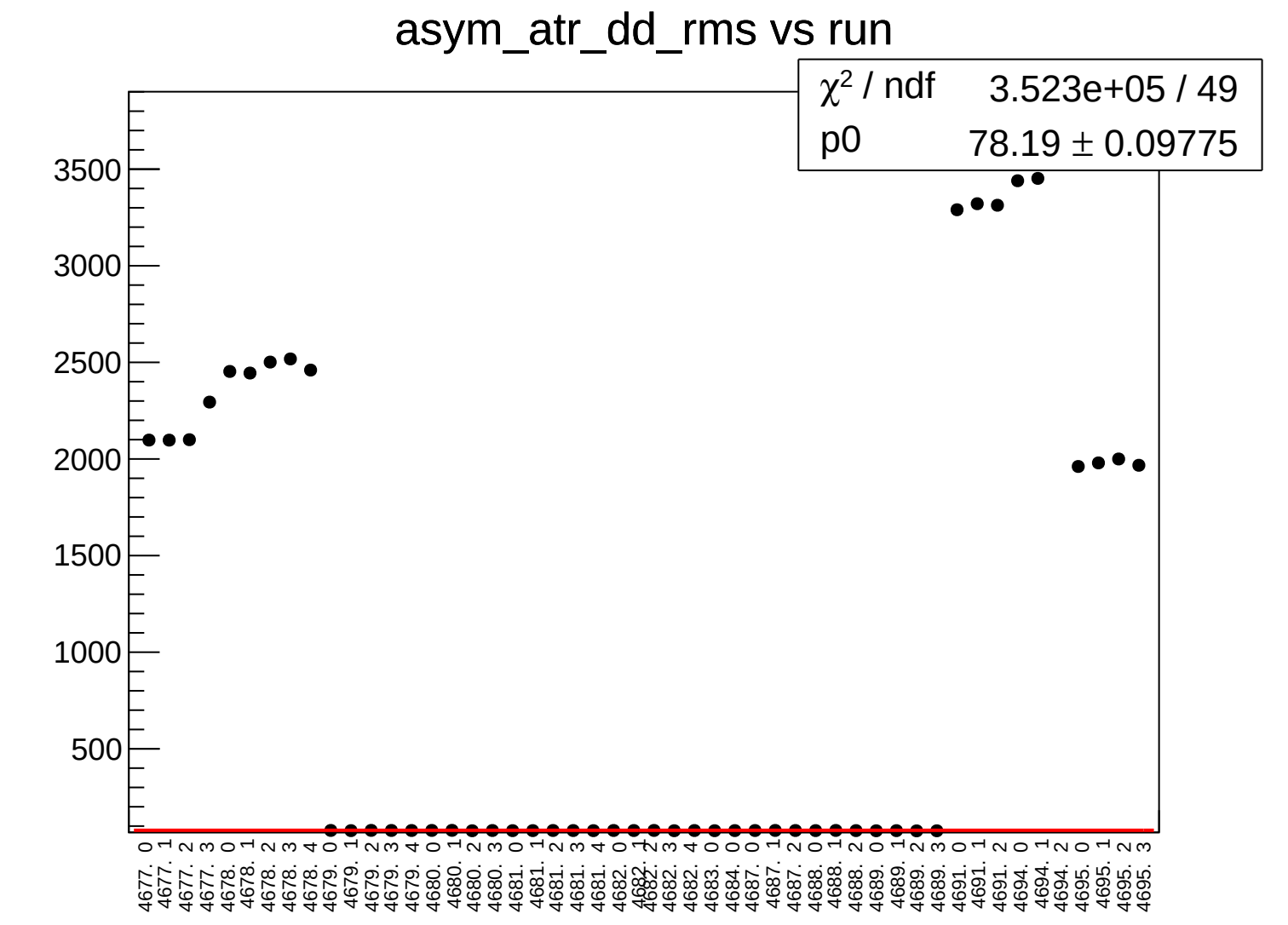

asym_atr_dd_mean vs run
×10^3
χ² / ndf 36.82 / 49
p0 70.1 ± 138.2
pull
Entries 50
Mean −147.2
Std Dev 166


pull1D
Entries 50
Mean 0.01318
Std Dev 0.8581


asym_atr_dd_rms vs run
χ² / ndf 3.523e+05 / 49
p0 78.19 ± 0.09775
3500
3000
2500
2000
1500
1000
500
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
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4680. 0
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4682. 0
4682. 1
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4683. 0
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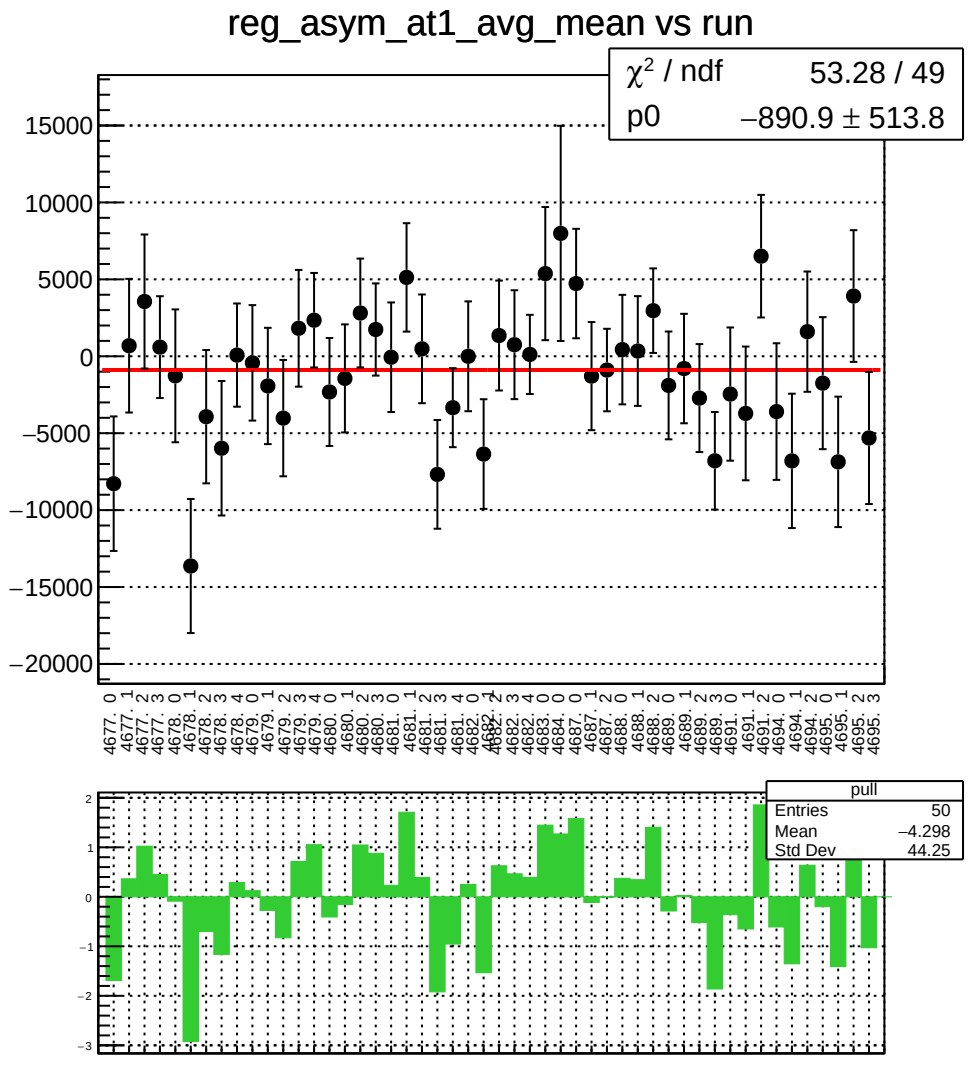
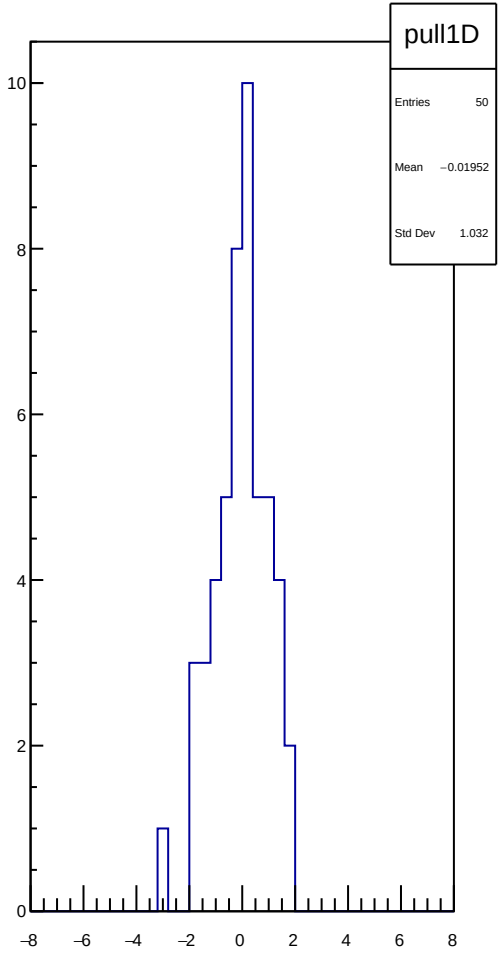
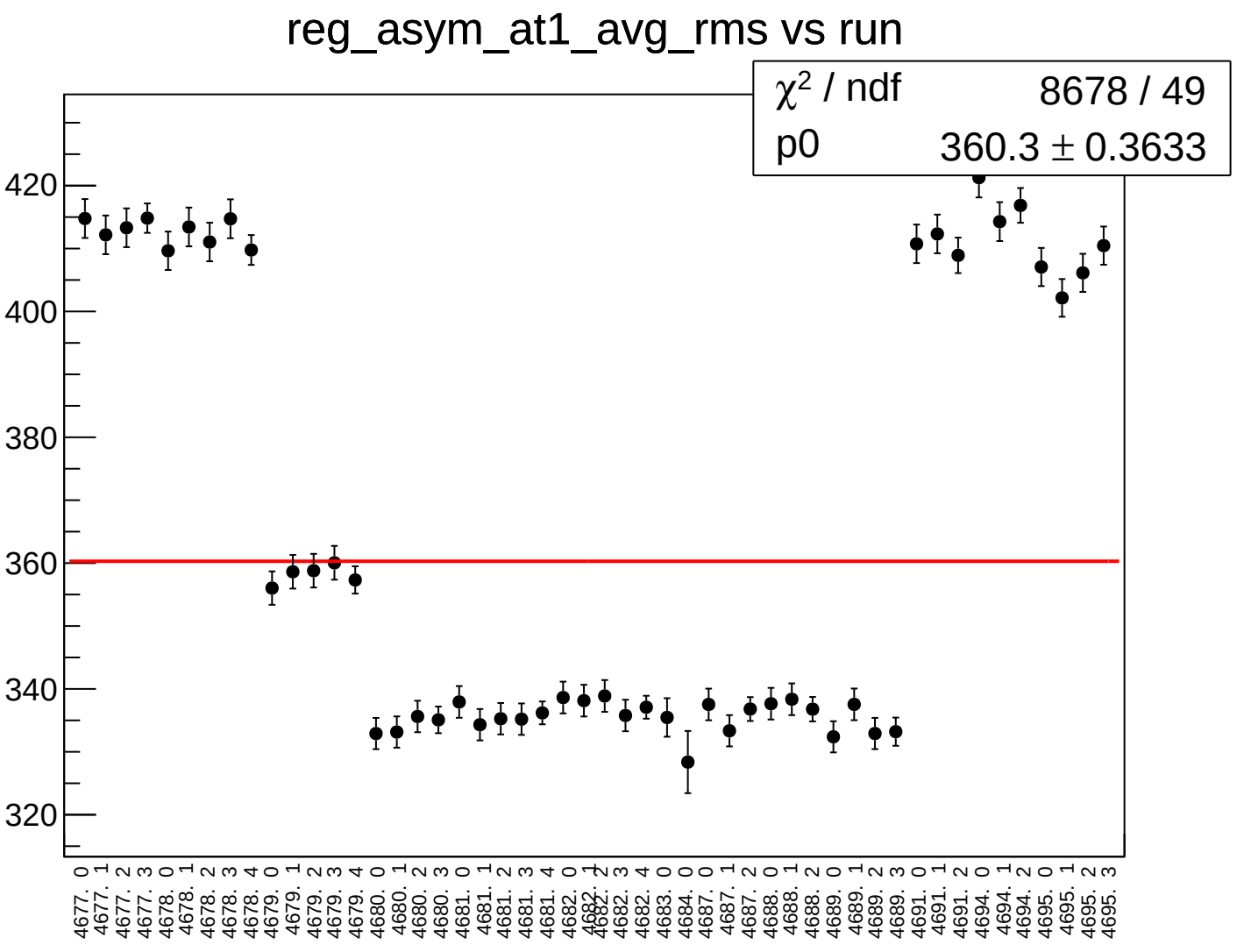

reg_asym_at1_avg_mean vs run
χ² / ndf 53.28 / 49
p0 −890.9 ± 513.8
pull
Entries 50
Mean −4.298
Std Dev 44.25


pull1D
Entries 50
Mean −0.01952
Std Dev 1.032


reg_asym_at1_avg_rms vs run
χ² / ndf 8678 / 49
p0 360.3 ± 0.3633
420
400
380
360
340
320
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4678. 4
4679. 0
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4679. 2
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4679. 4
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4680. 1
4680. 2
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4683. 0
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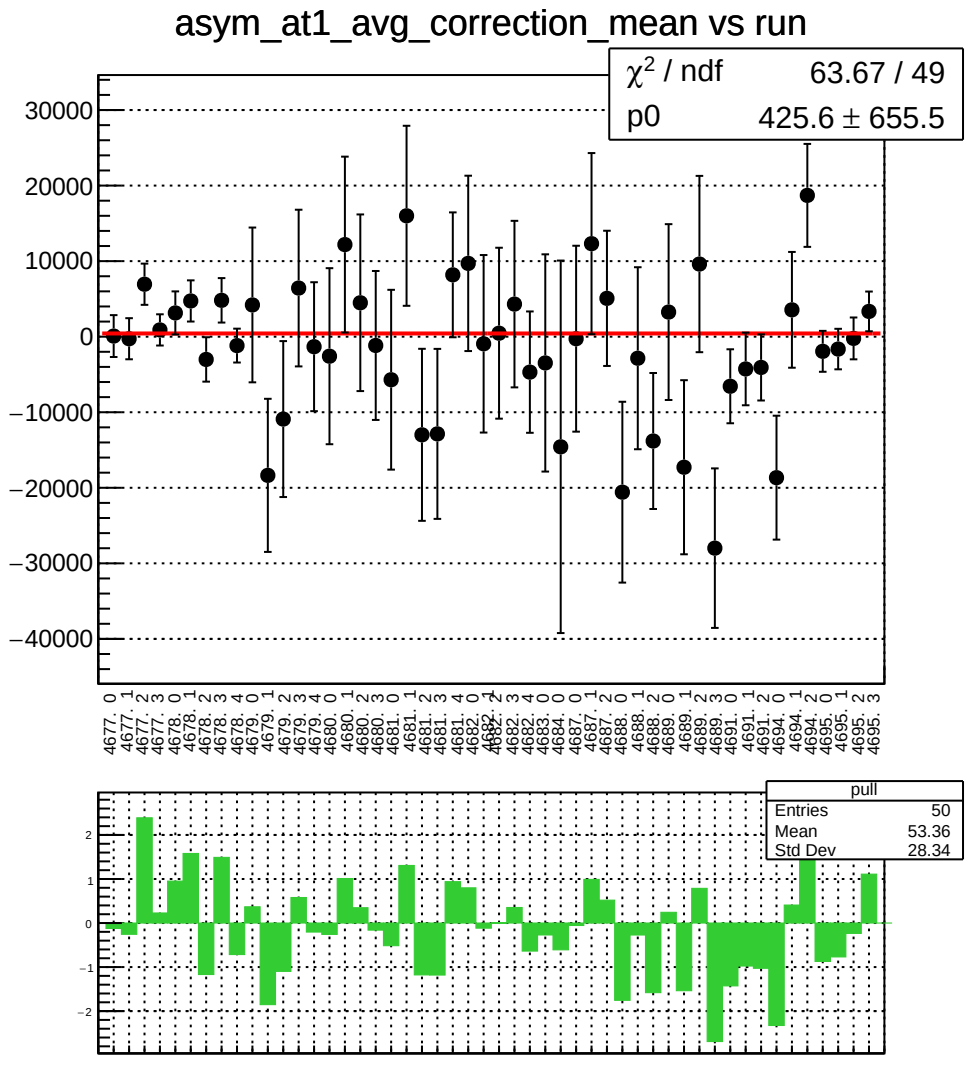
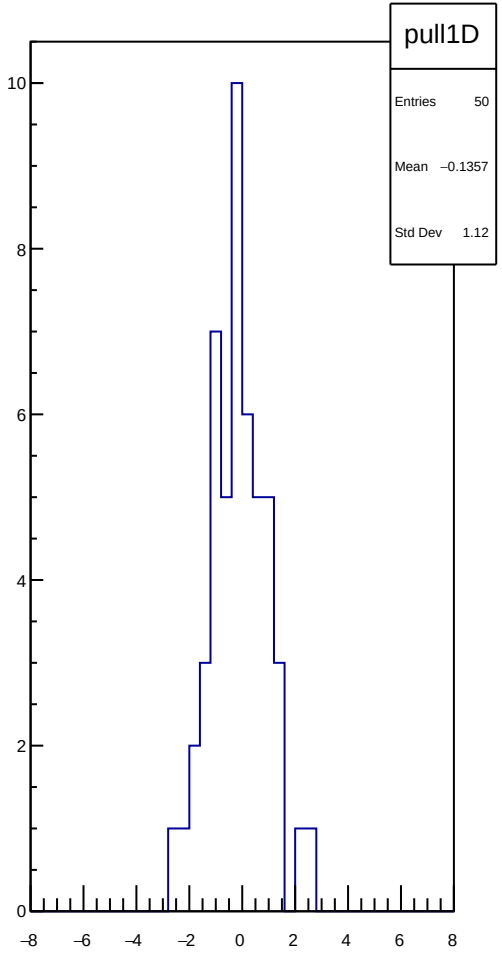
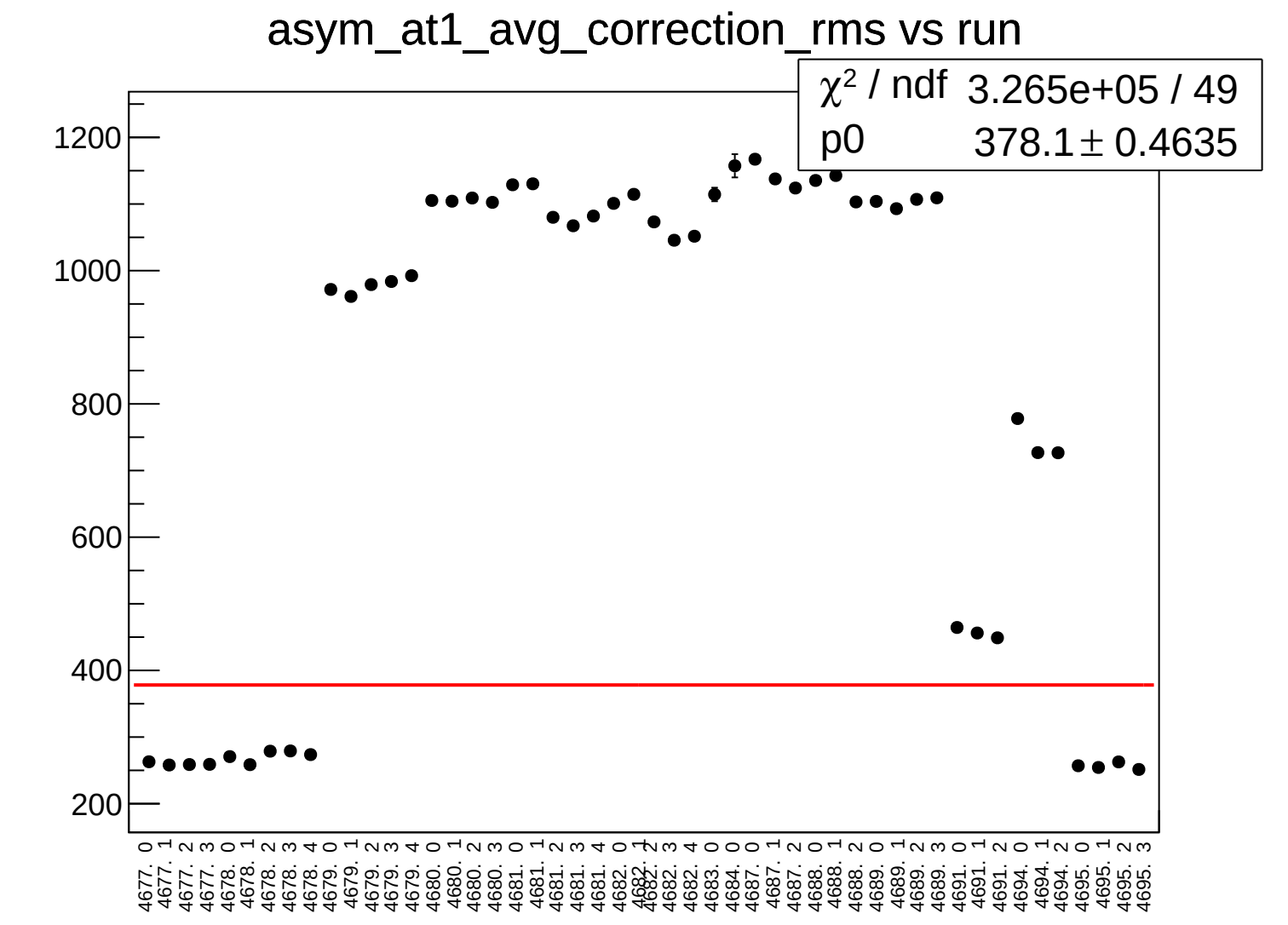
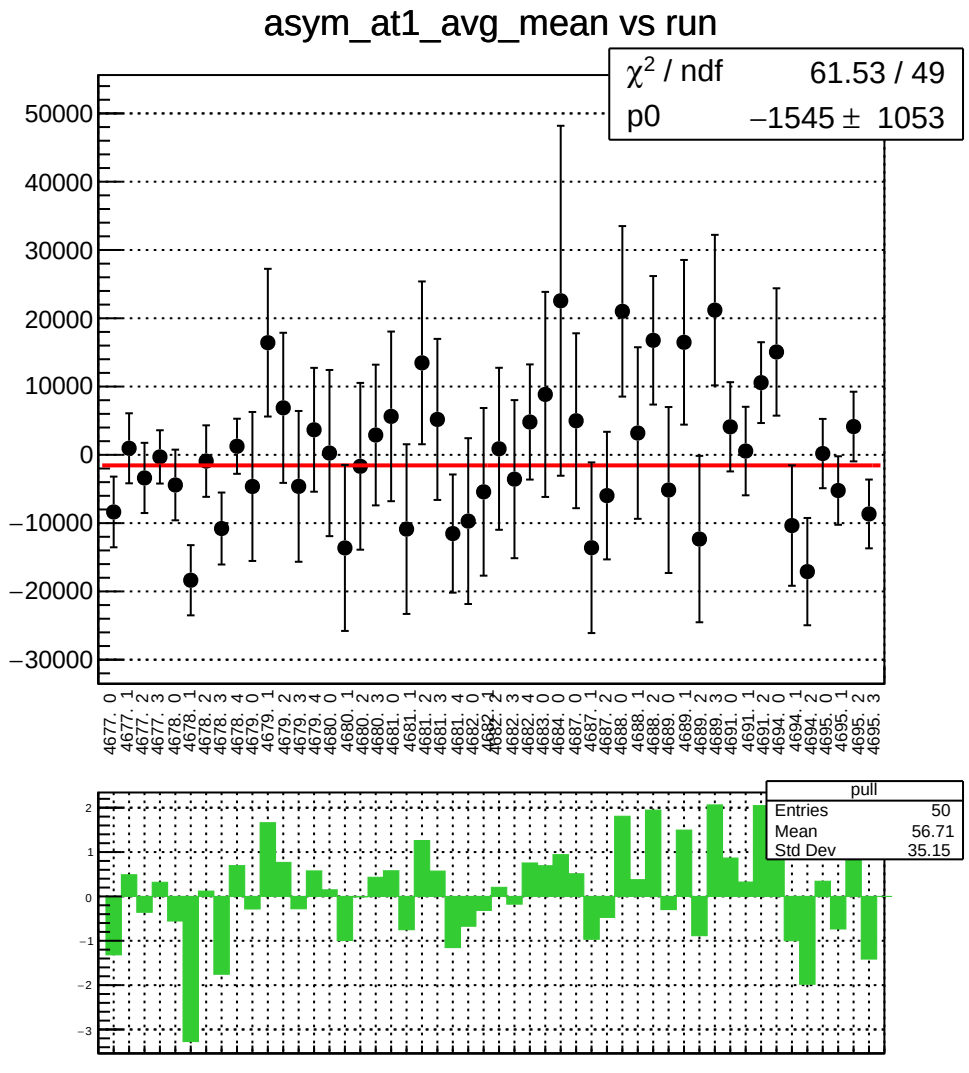
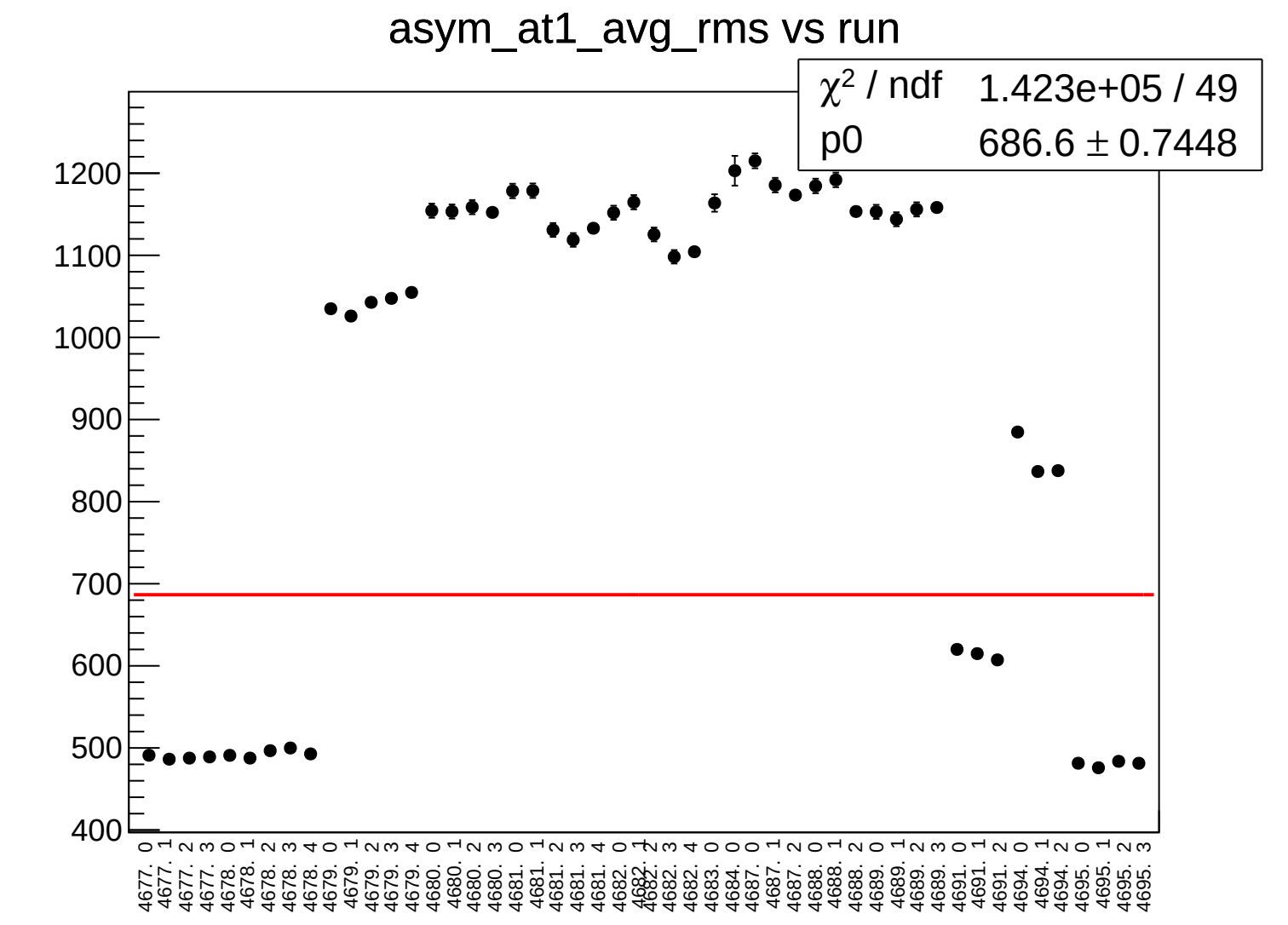
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

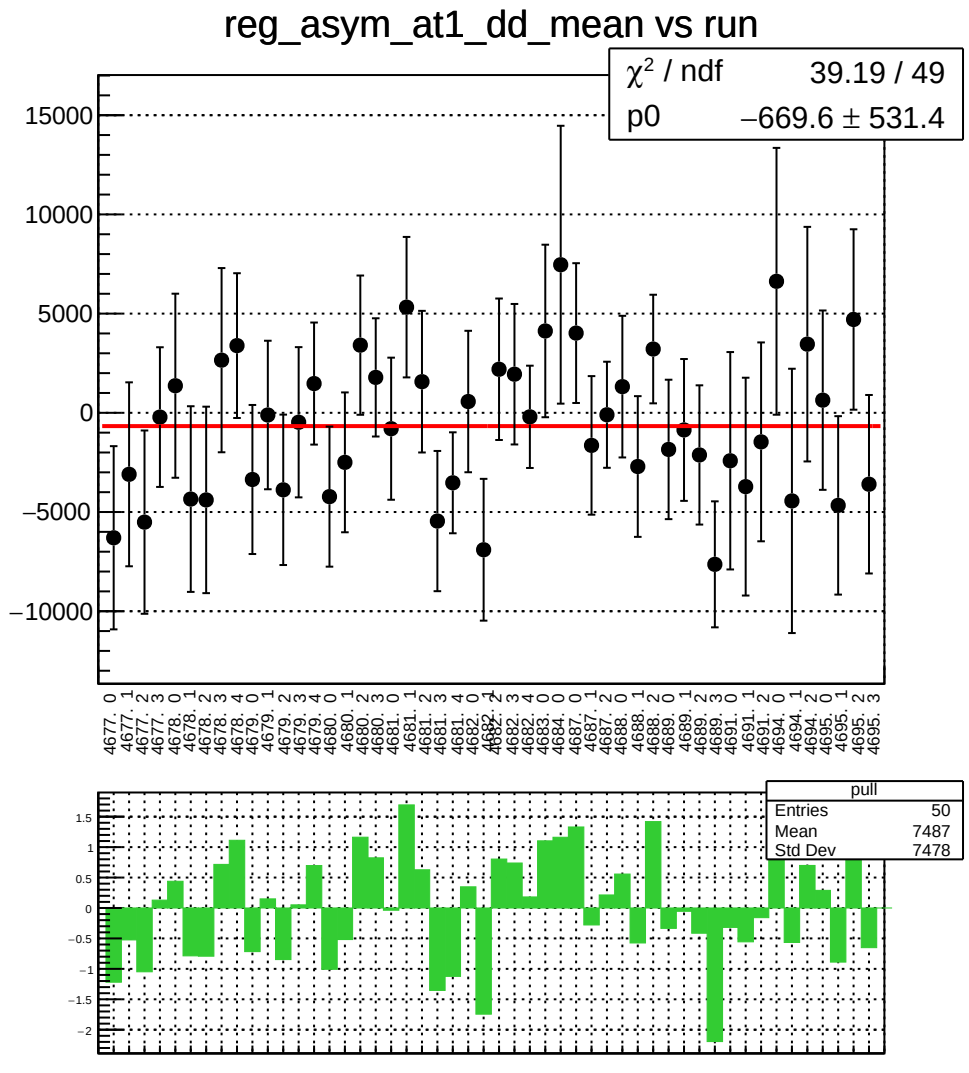

asym_at1_avg_correction_mean vs run
χ² / ndf 63.67 / 49
p0 425.6 ± 655.5
pull
Entries 50
Mean 53.36
Std Dev 28.34

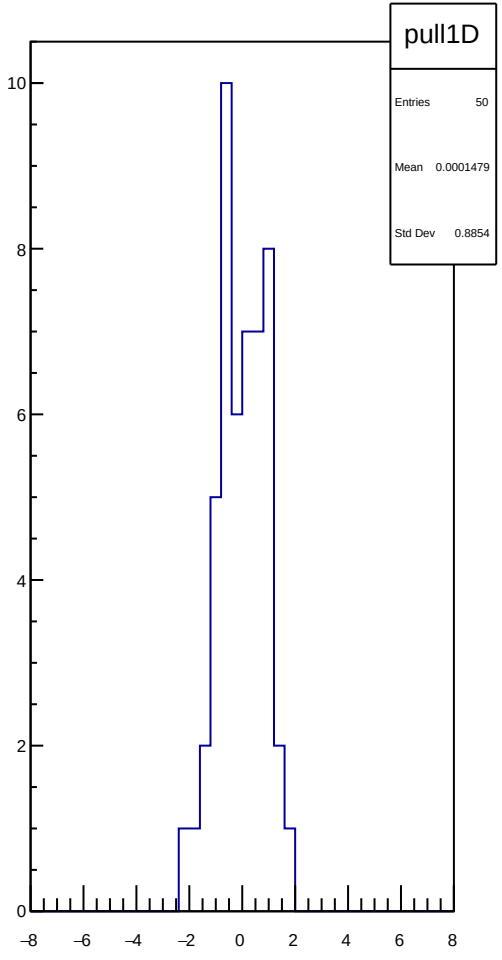

pull1D
Entries 50
Mean −0.1357
Std Dev 1.12

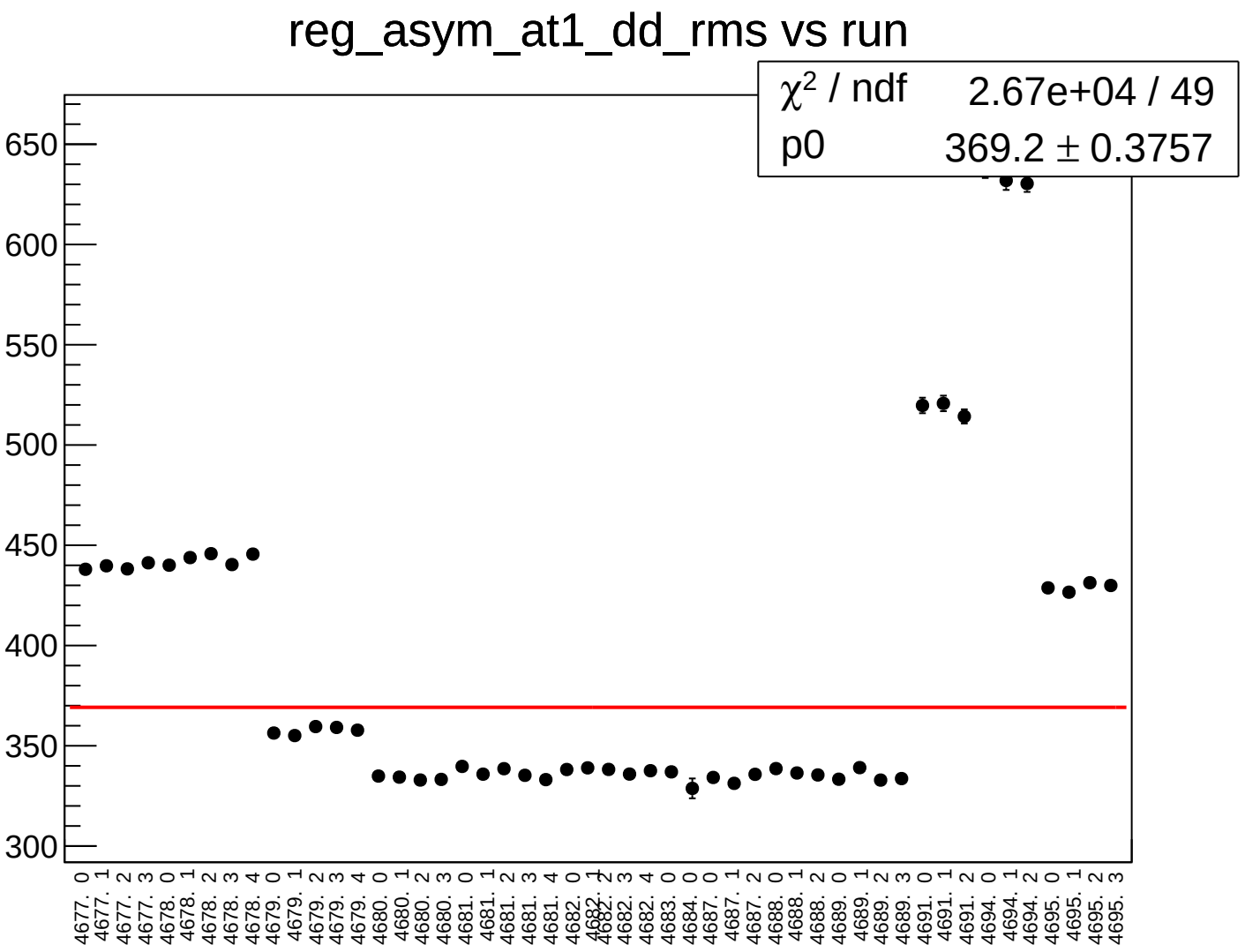

asym_at1_avg_correction_rms vs run
χ² / ndf 3.265e+05 / 49
p0 378.1 ± 0.4635
1200
1000
800
600
400
200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

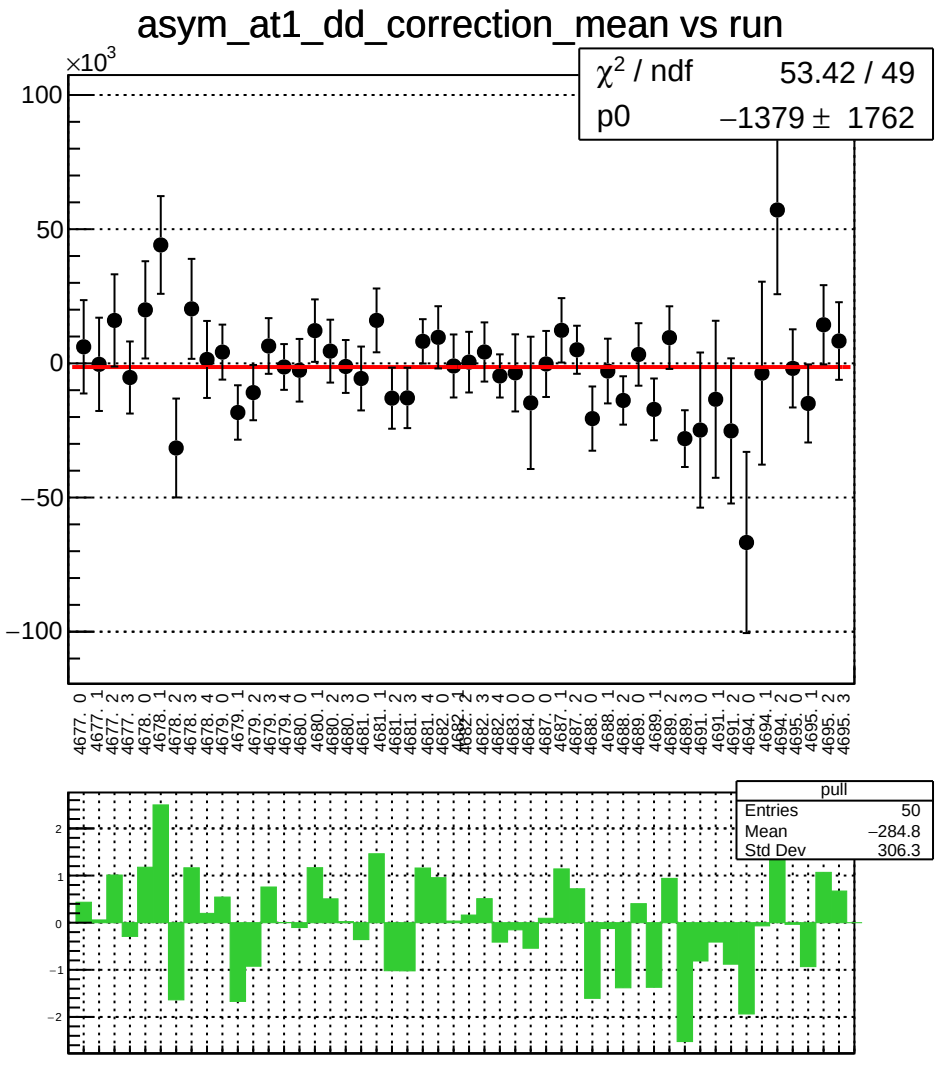

asym_at1_avg_mean vs run
χ² / ndf 61.53 / 49
p0 −1545 ± 1053
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 56.71
Std Dev 35.15
2
1
0
−1
−2
−3
pull1D
Entries 50
Mean 0.105
Std Dev 1.104
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

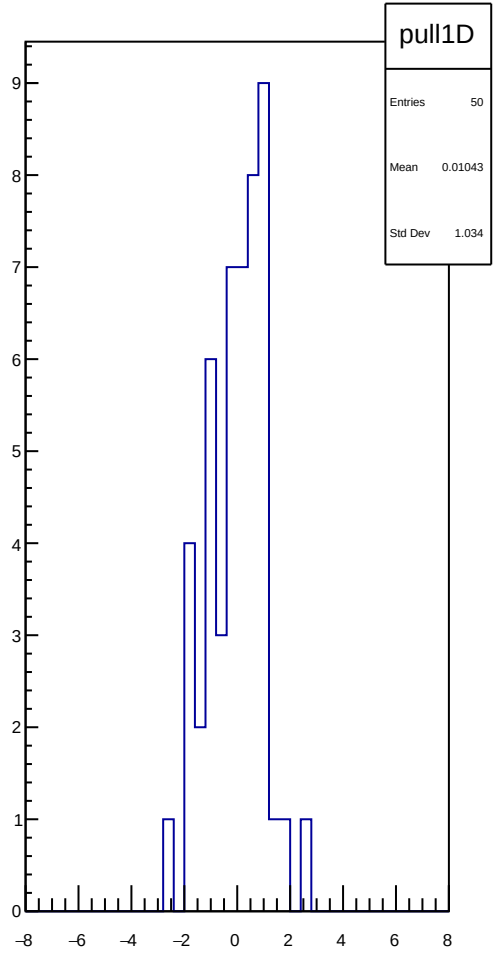

asym_at1_avg_rms vs run
χ² / ndf 1.423e+05 / 49
p0 686.6 ± 0.7448
1200
1100
1000
900
800
700
600
500
400
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

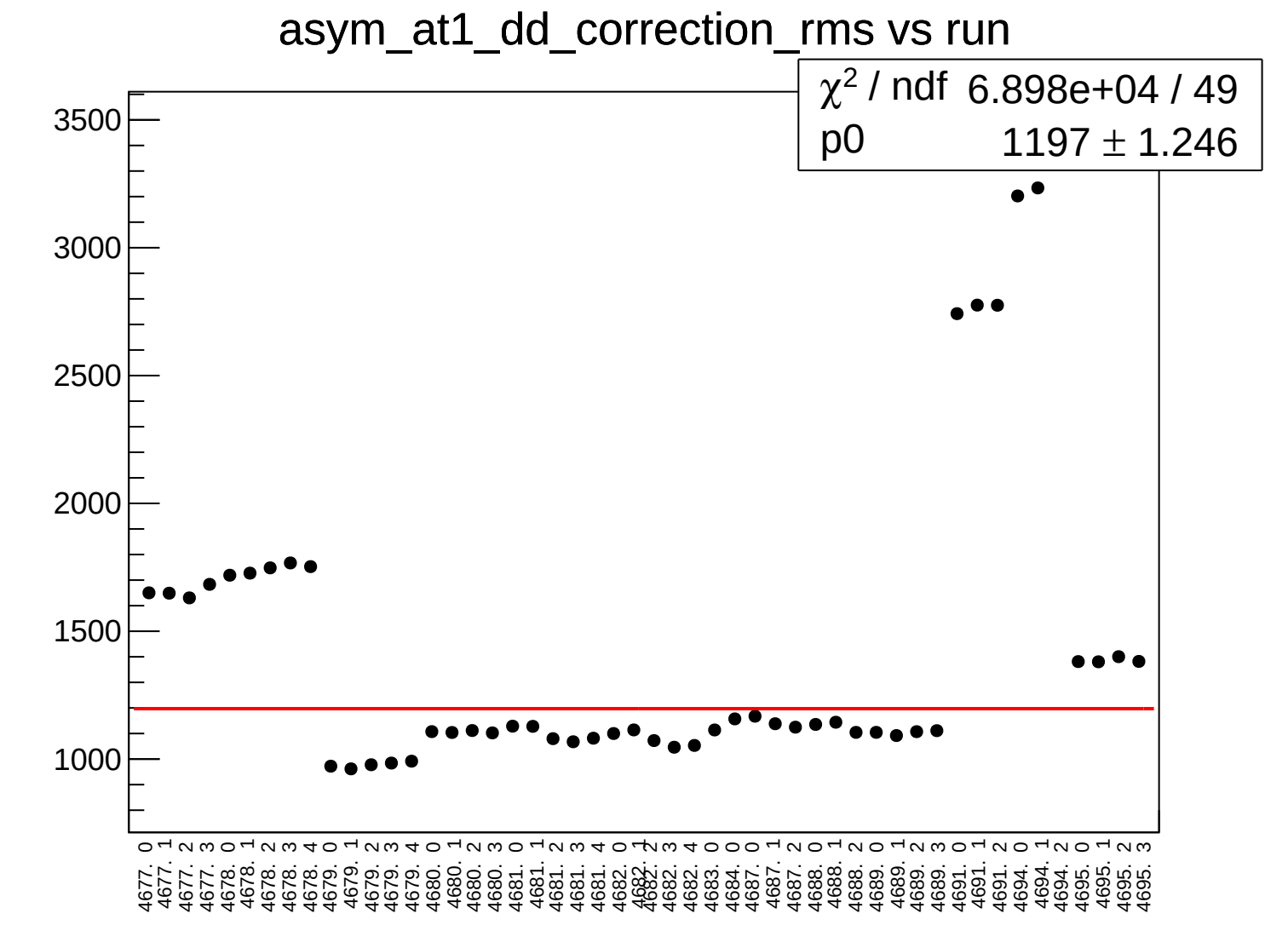

reg_asym_at1_dd_mean vs run
χ² / ndf 39.19 / 49
p0 −669.6 ± 531.4
15000
10000
5000
0
−5000
−10000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 7487
Std Dev 7478
1.5
1
0.5
0
−0.5
−1
−1.5
−2

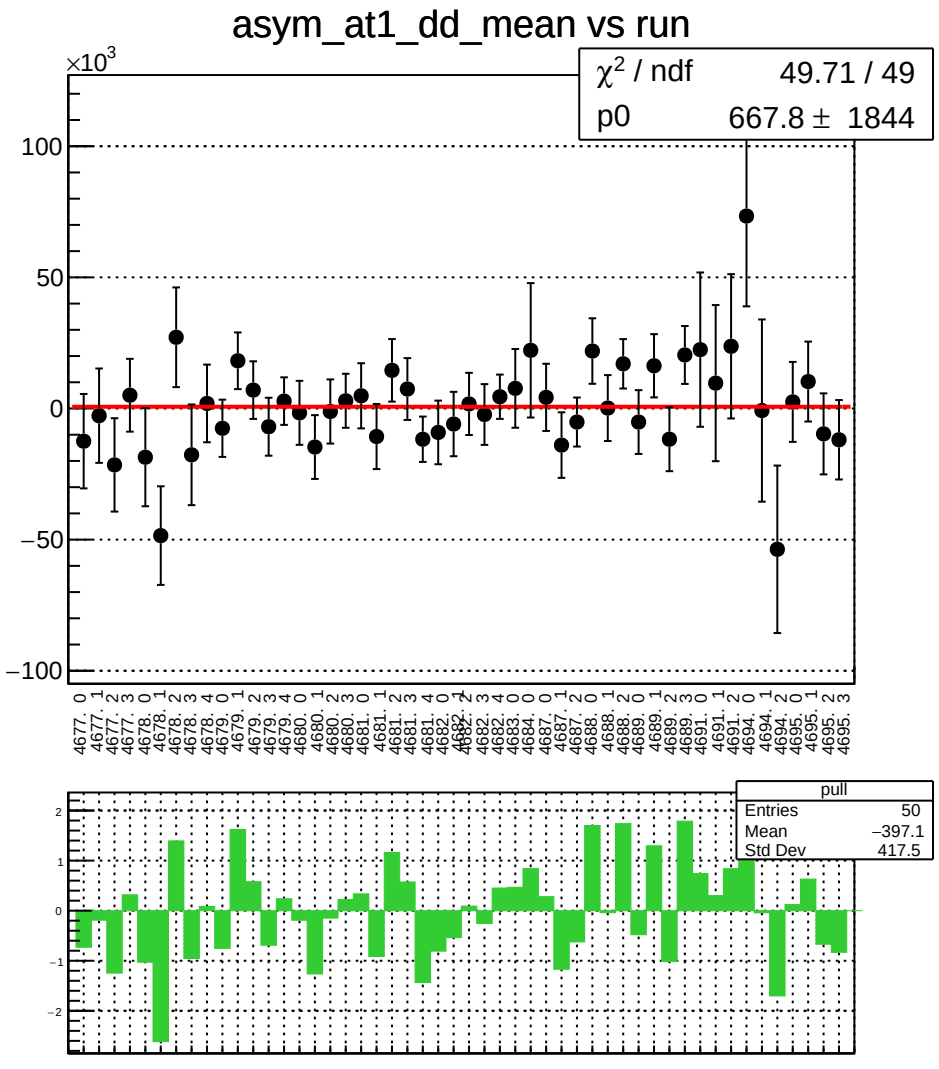

pull1D
Entries 50
Mean 0.0001479
Std Dev 0.8854
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_dd_rms vs run
χ² / ndf 2.67e+04 / 49
p0 369.2 ± 0.3757
650
600
550
500
450
400
350
300
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_at1_dd_correction_mean vs run
×10^3
χ² / ndf 53.42 / 49
p0 −1379 ± 1762
100
50
0
−50
−100
pull
Entries 50
Mean −284.8
Std Dev 306.3


pull1D
Entries 50
Mean 0.01043
Std Dev 1.034


asym_at1_dd_correction_rms vs run
χ² / ndf 6.898e+04 / 49
p0 1197 ± 1.246
3500
3000
2500
2000
1500
1000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 49.71 / 49
p0 667.8 ± 1844
100
50
0
−50
−100
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
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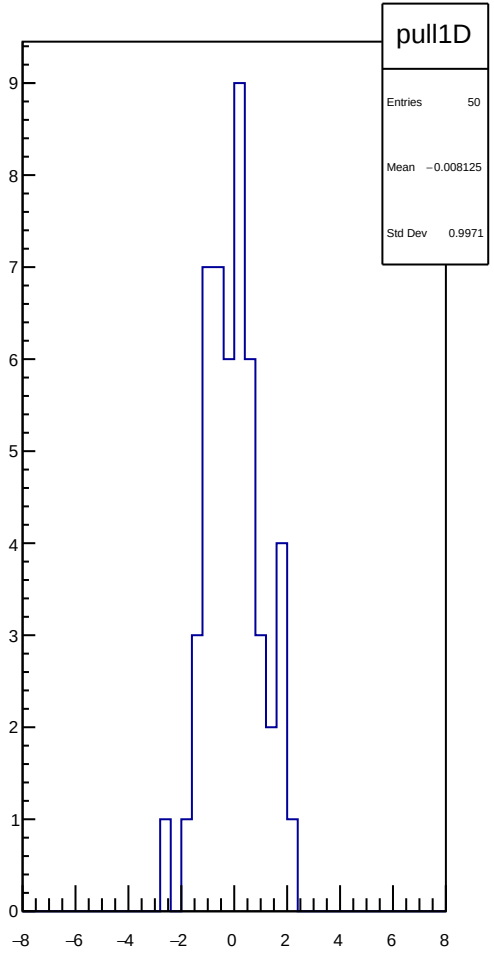
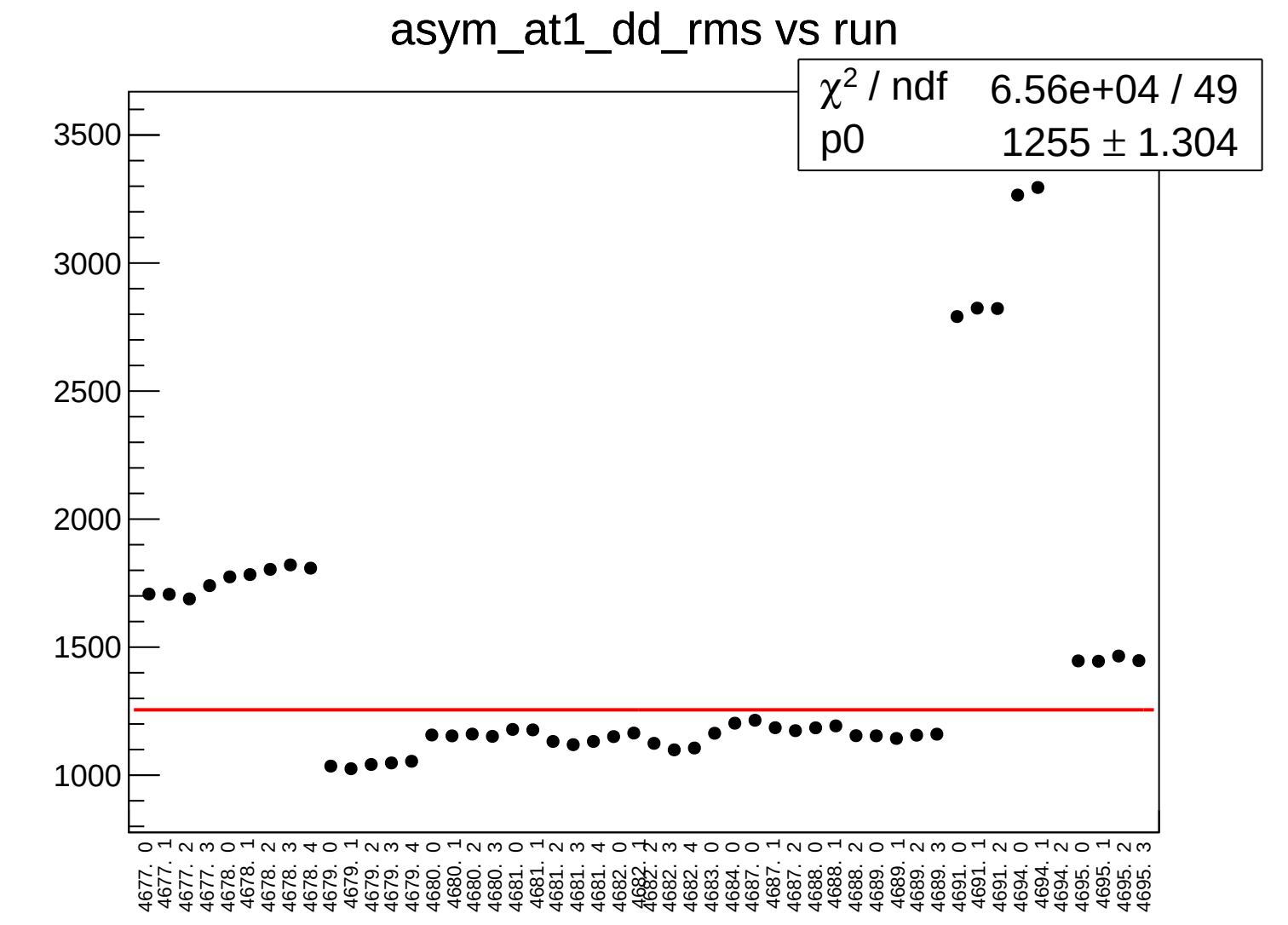
4695. 2
4695. 3
pull
Entries 50
Mean −397.1
Std Dev 417.5
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.008125
Std Dev 0.9971
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_rms vs run
χ² / ndf 6.56e+04 / 49
p0 1255 ± 1.304
3500
3000
2500
2000
1500
1000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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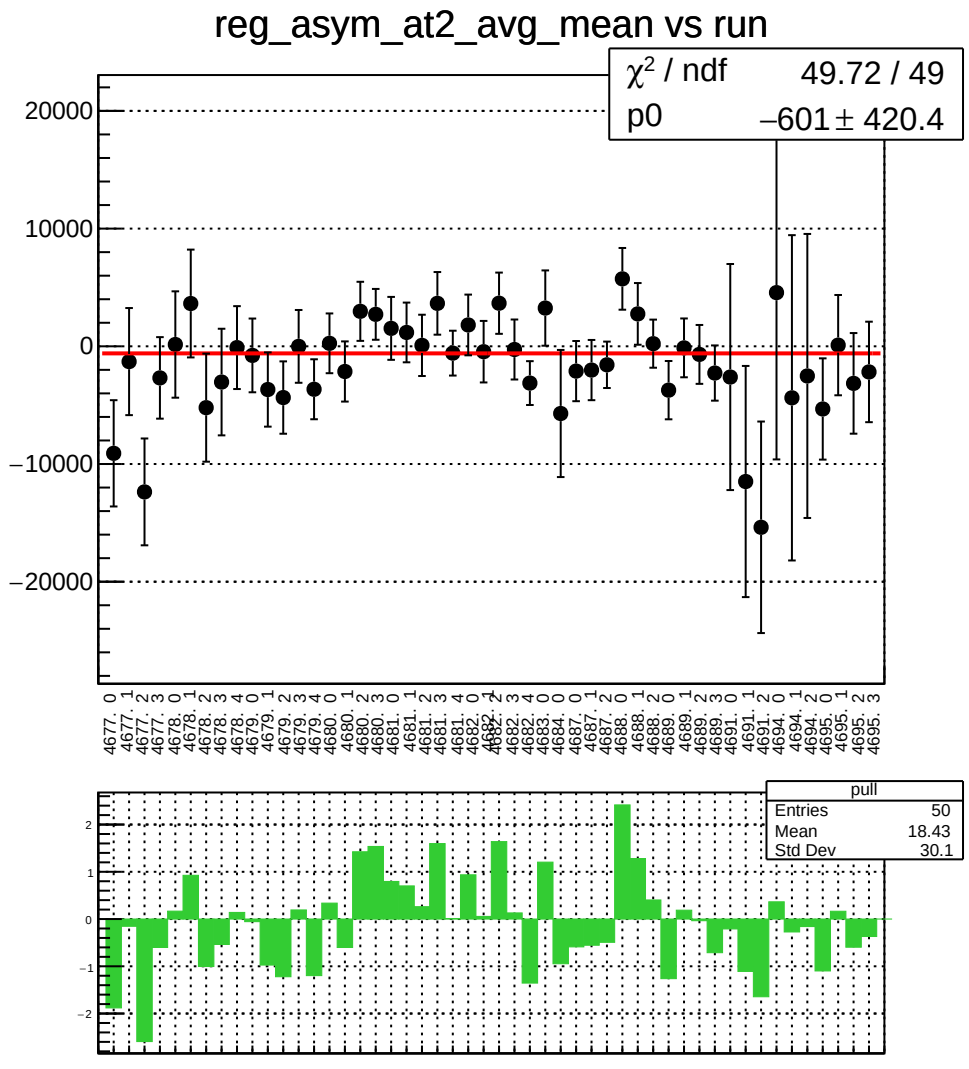
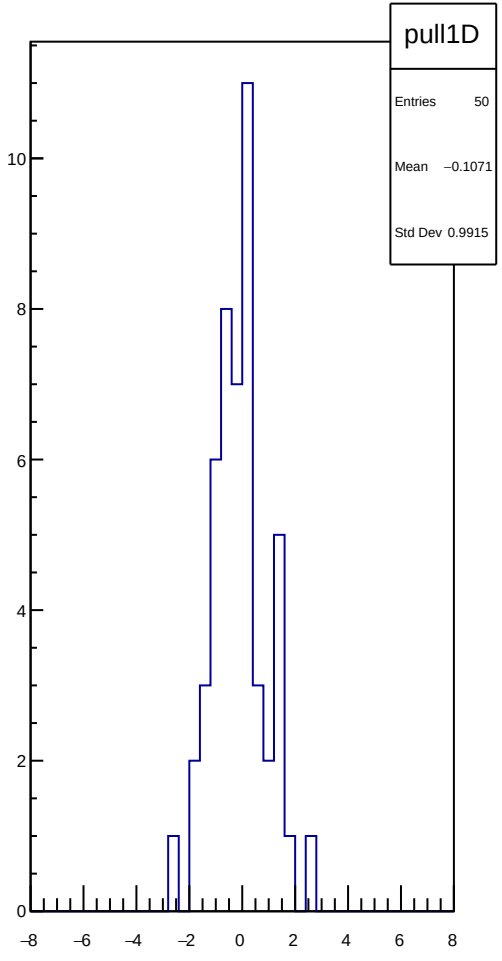
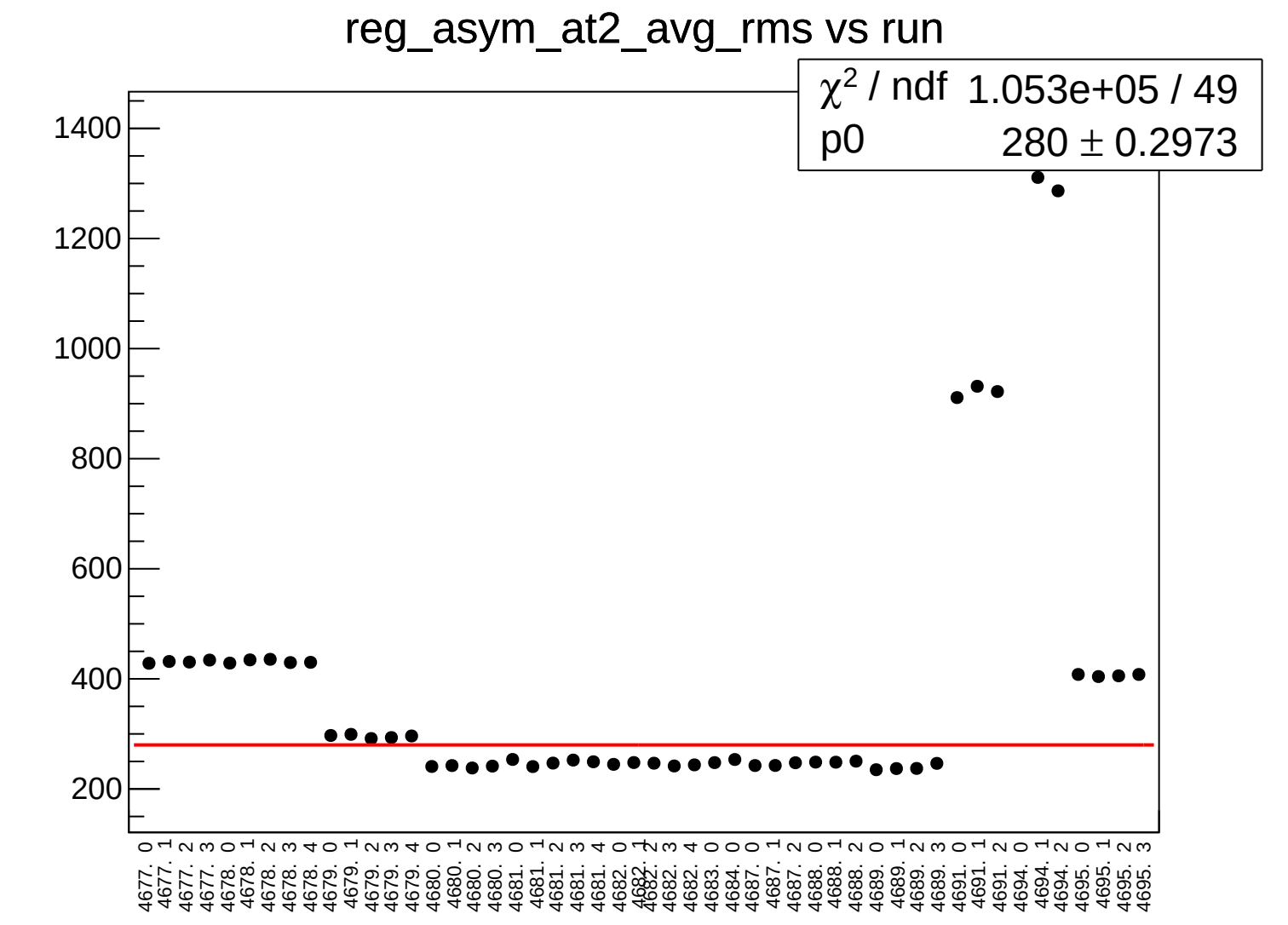
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


reg_asym_at2_avg_mean vs run
χ² / ndf 49.72 / 49
p0 −601 ± 420.4
20000
10000
0
−10000
−20000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 18.43
Std Dev 30.1
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.1071
Std Dev 0.9915
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at2_avg_rms vs run
χ² / ndf 1.053e+05 / 49
p0 280 ± 0.2973
1400
1200
1000
800
600
400
200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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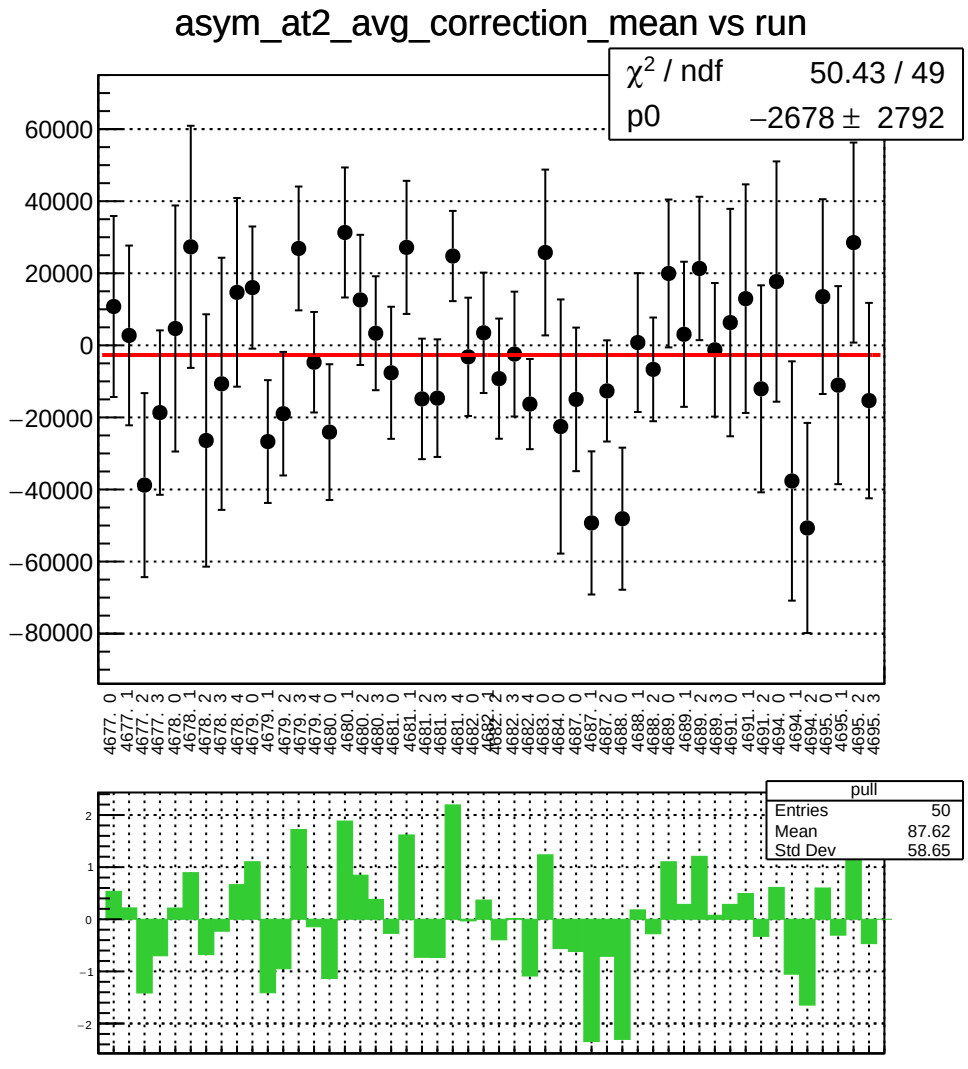
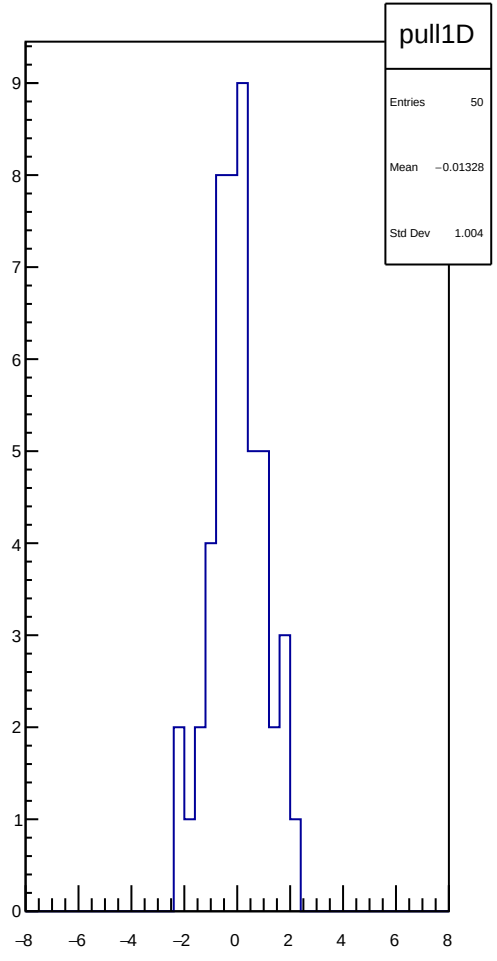
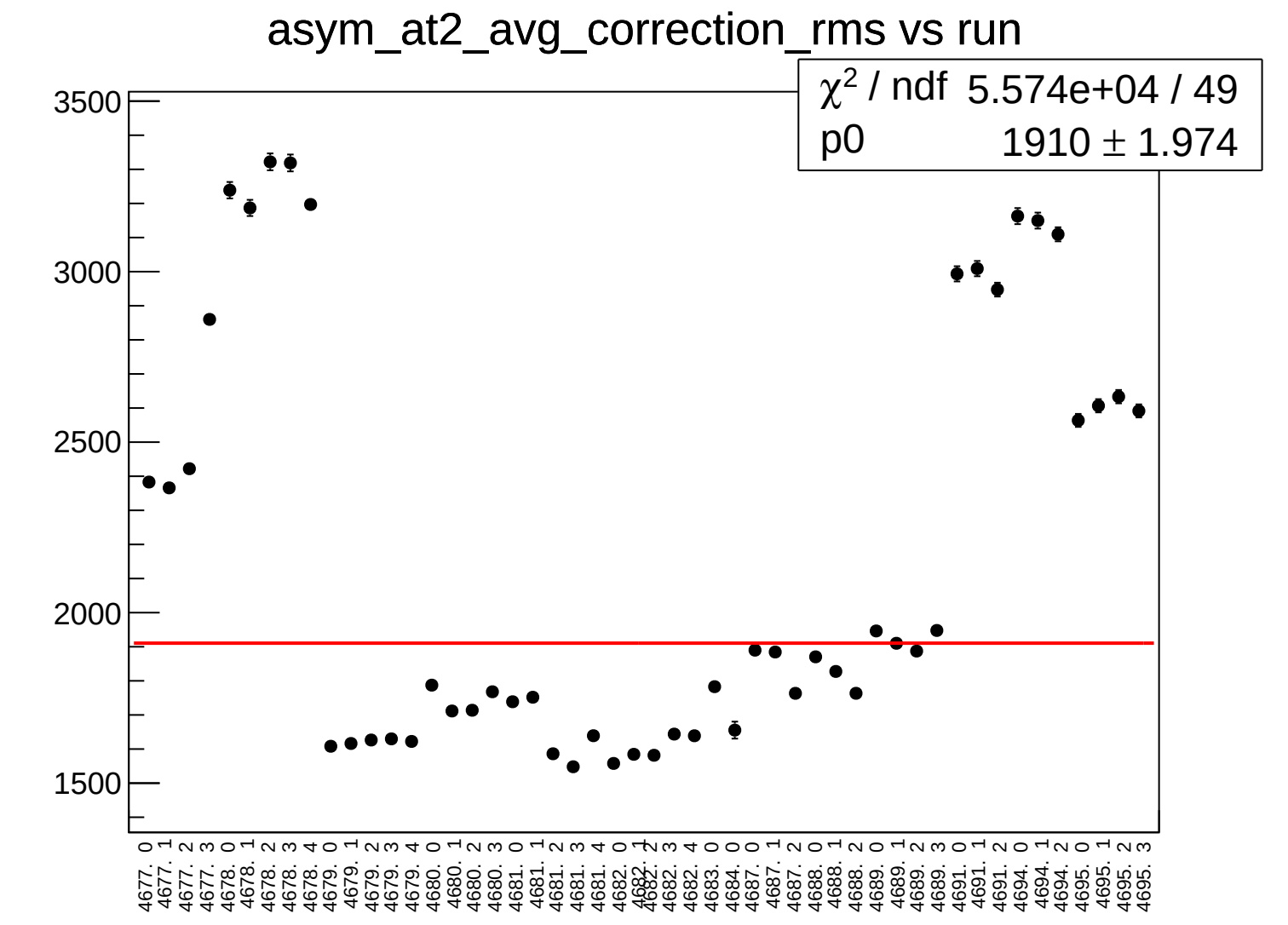
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_at2_avg_correction_mean vs run
χ² / ndf 50.43 / 49
p0 −2678 ± 2792
pull
Entries 50
Mean 87.62
Std Dev 58.65


pull1D
Entries 50
Mean −0.01328
Std Dev 1.004


asym_at2_avg_correction_rms vs run
χ² / ndf 5.574e+04 / 49
p0 1910 ± 1.974
3500
3000
2500
2000
1500
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
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4689. 1
4689. 2
4689. 3
4691. 0
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4694. 1
4694. 2
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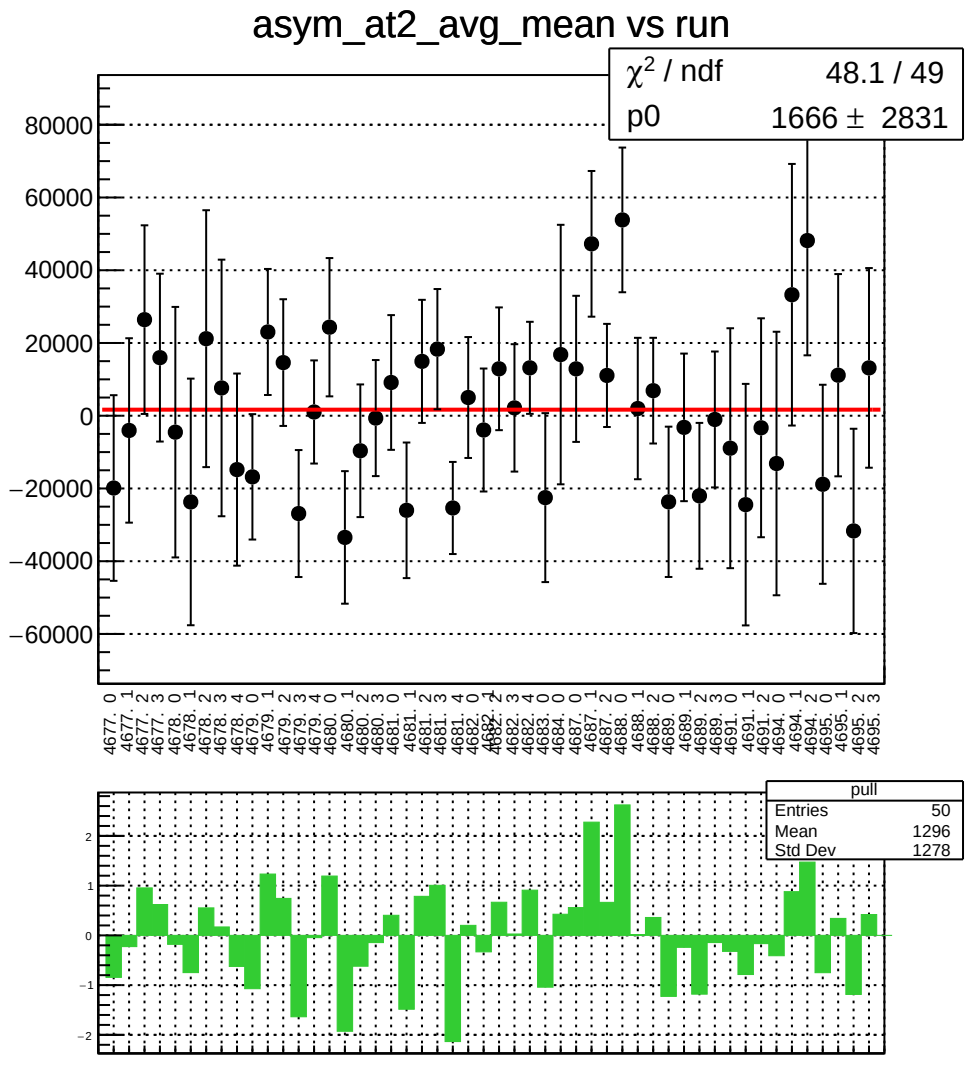
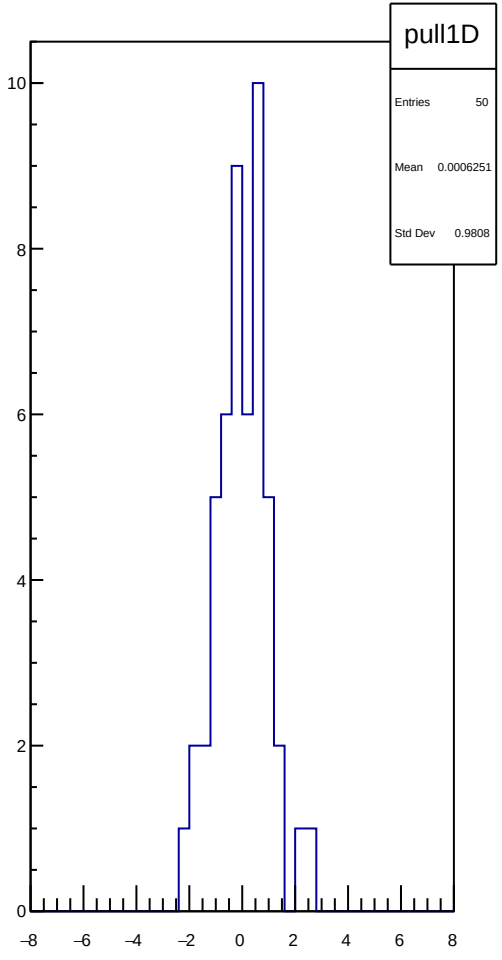
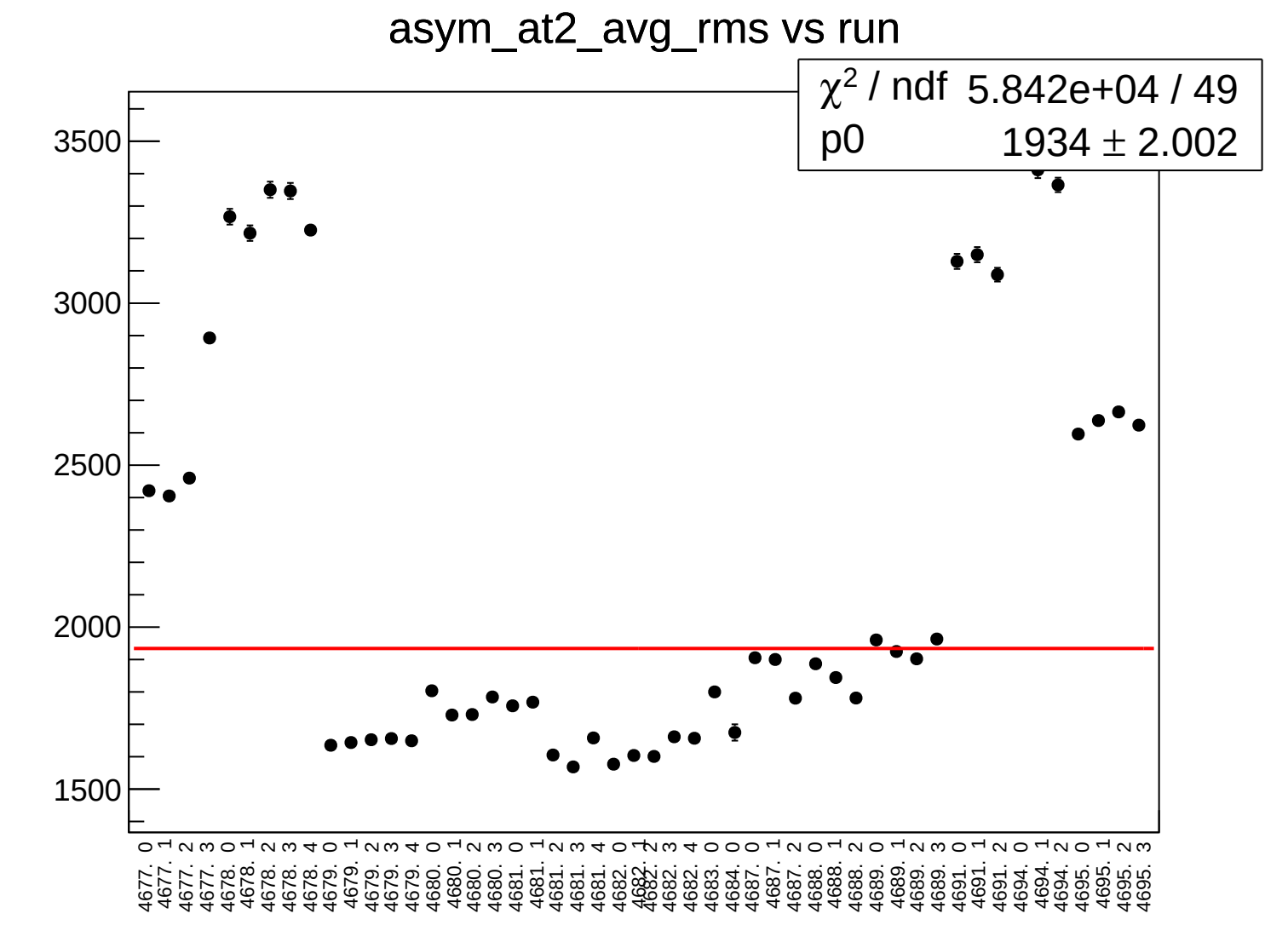
4695. 3


asym_at2_avg_mean vs run
χ² / ndf 48.1 / 49
p0 1666 ± 2831
80000
60000
40000
20000
0
−20000
−40000
−60000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 1296
Std Dev 1278
2
1
0
−1
−2


pull1D
Entries 50
Mean 0.0006251
Std Dev 0.9808
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_avg_rms vs run
χ² / ndf 5.842e+04 / 49
p0 1934 ± 2.002
3500
3000
2500
2000
1500
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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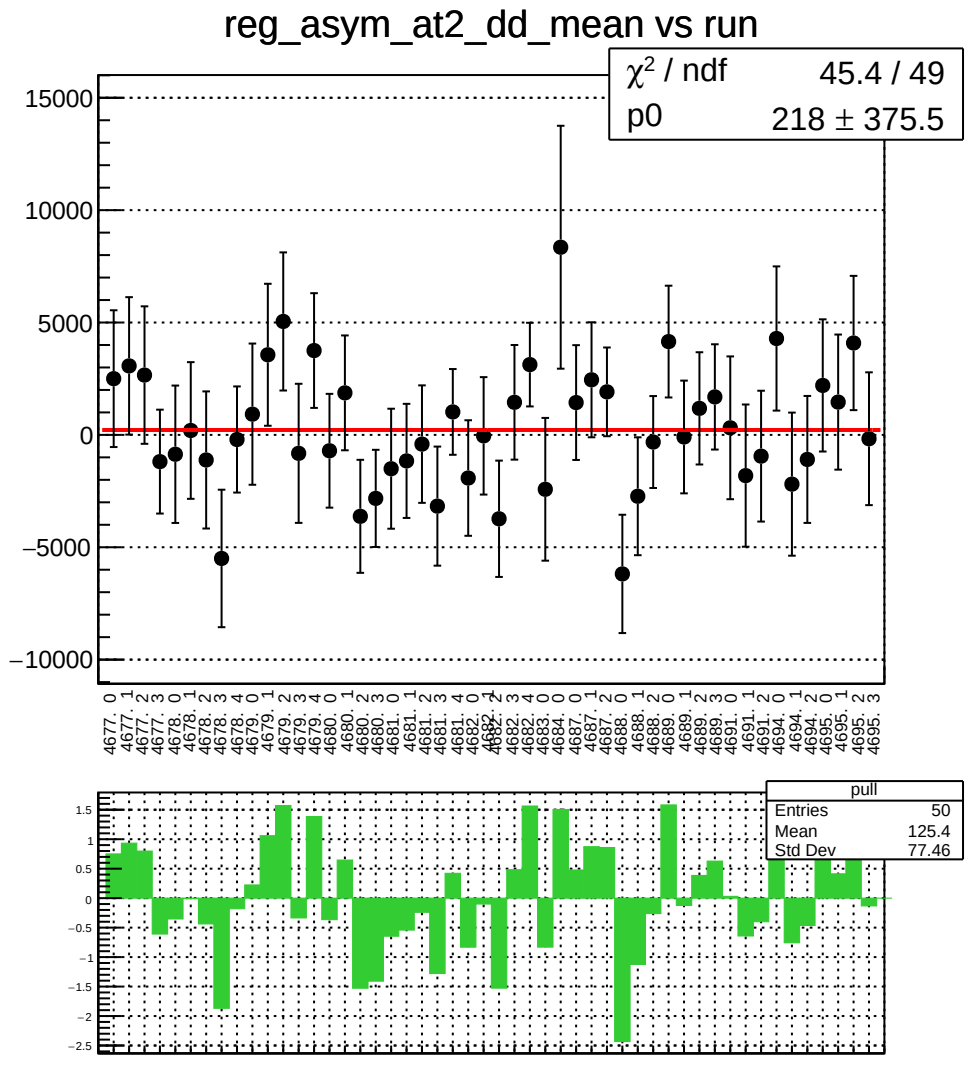
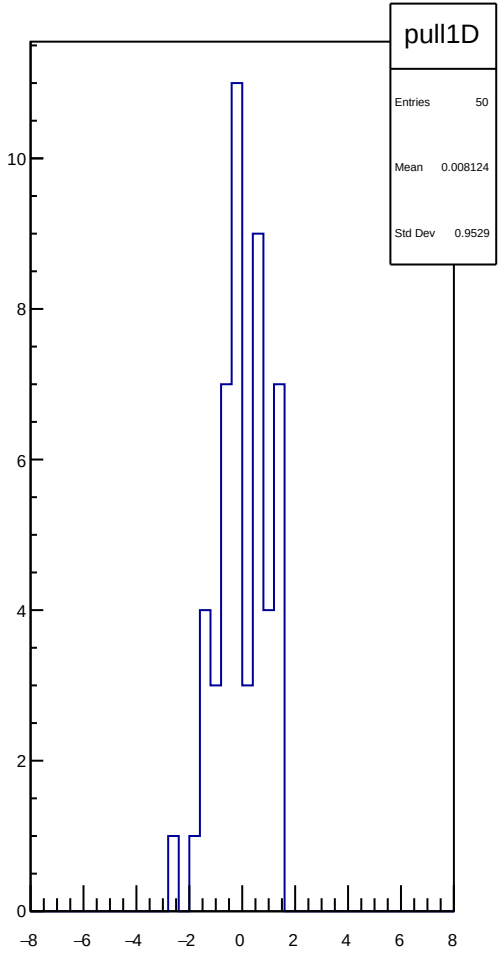
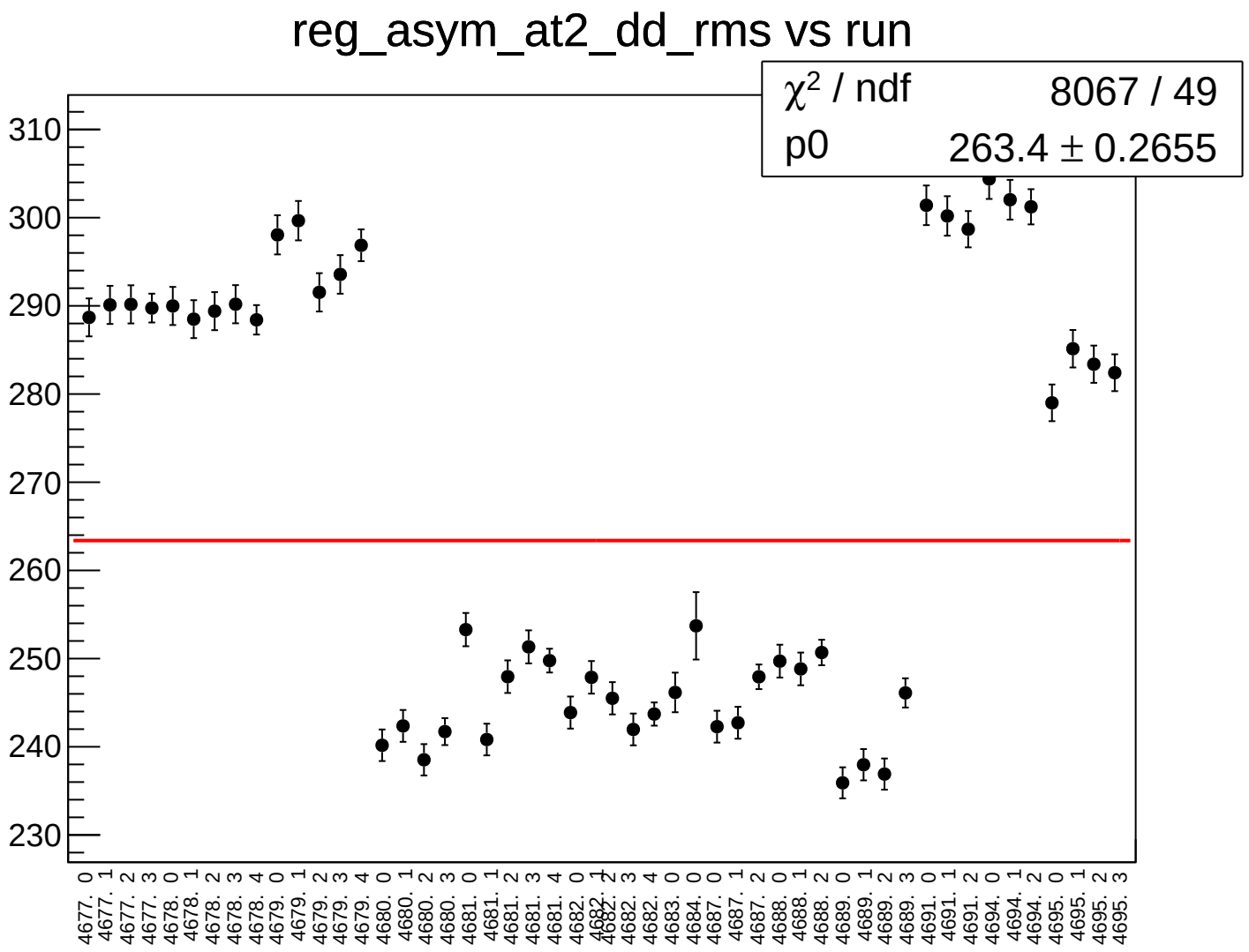
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


reg_asym_at2_dd_mean vs run
χ² / ndf 45.4 / 49
p0 218 ± 375.5
15000
10000
5000
0
−5000
−10000
pull
Entries 50
Mean 125.4
Std Dev 77.46
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 50
Mean 0.008124
Std Dev 0.9529
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at2_dd_rms vs run
χ² / ndf 8067 / 49
p0 263.4 ± 0.2655
310
300
290
280
270
260
250
240
230
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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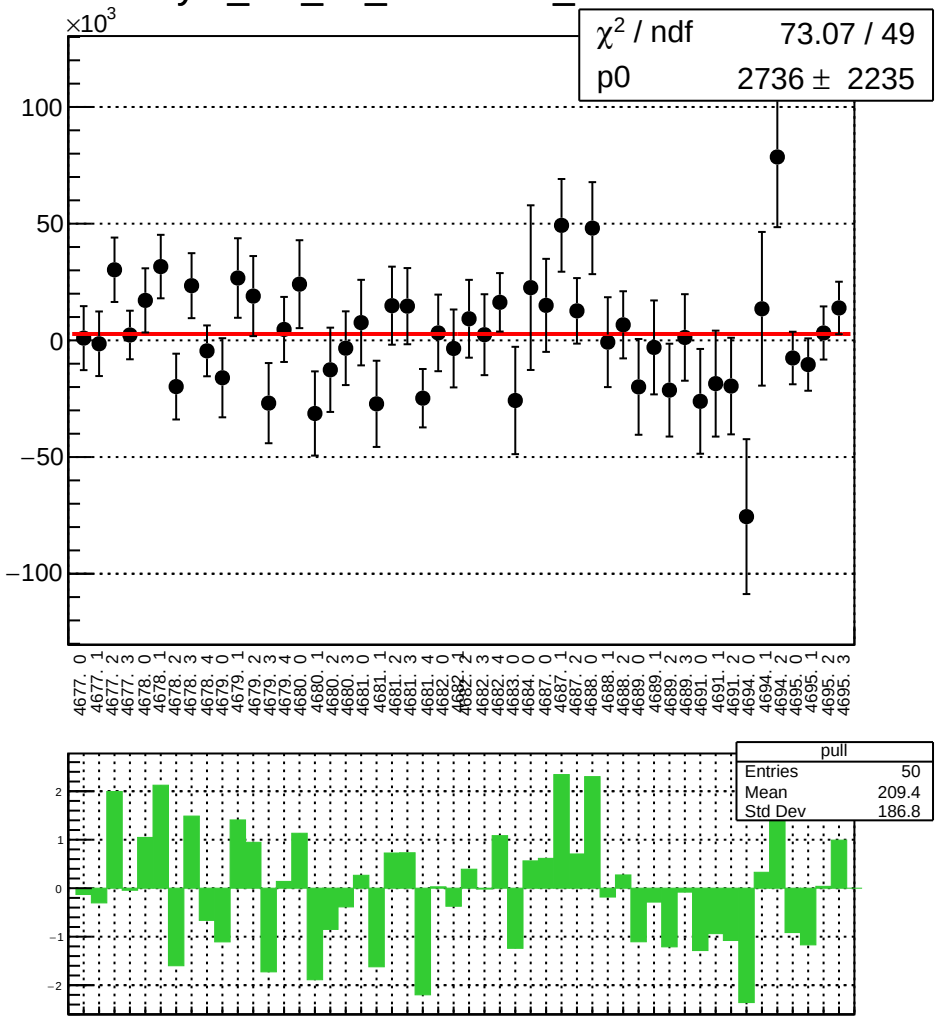
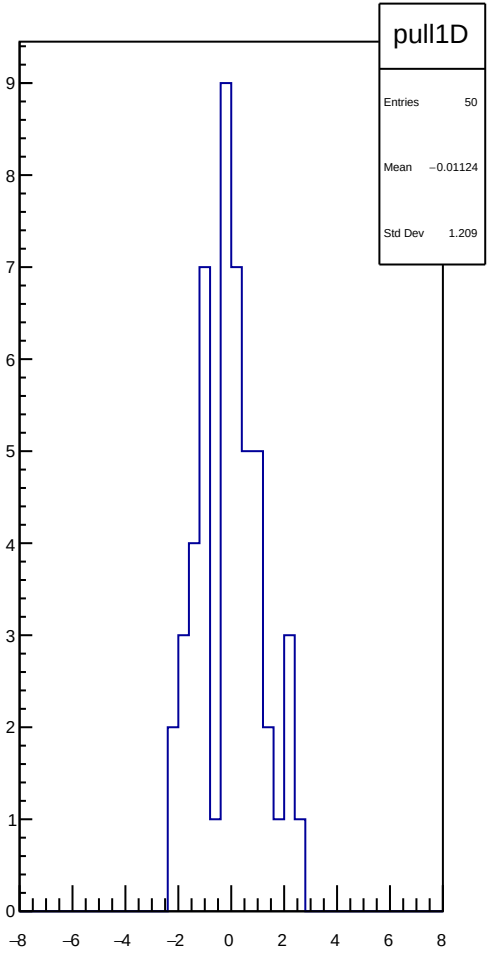
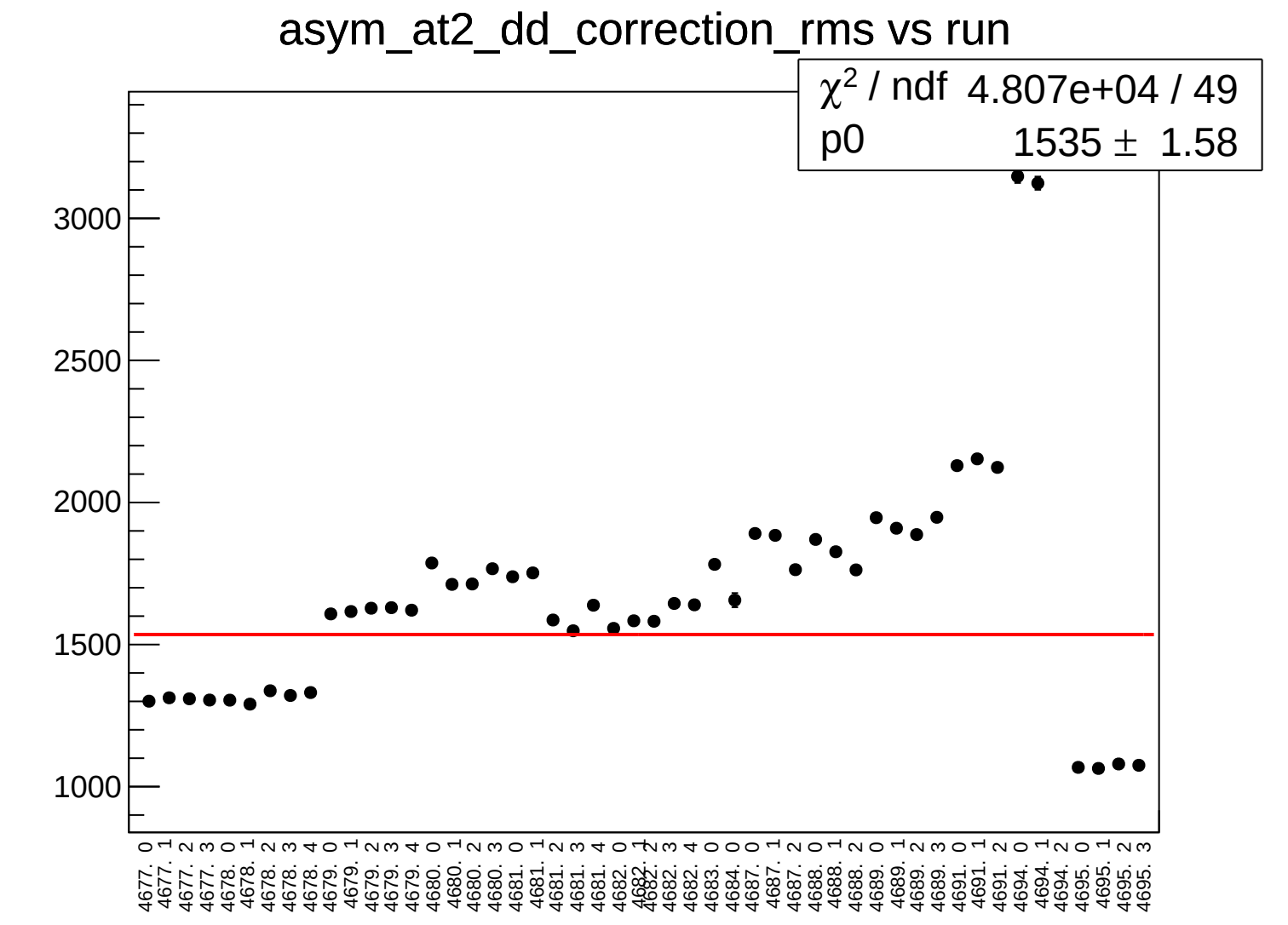
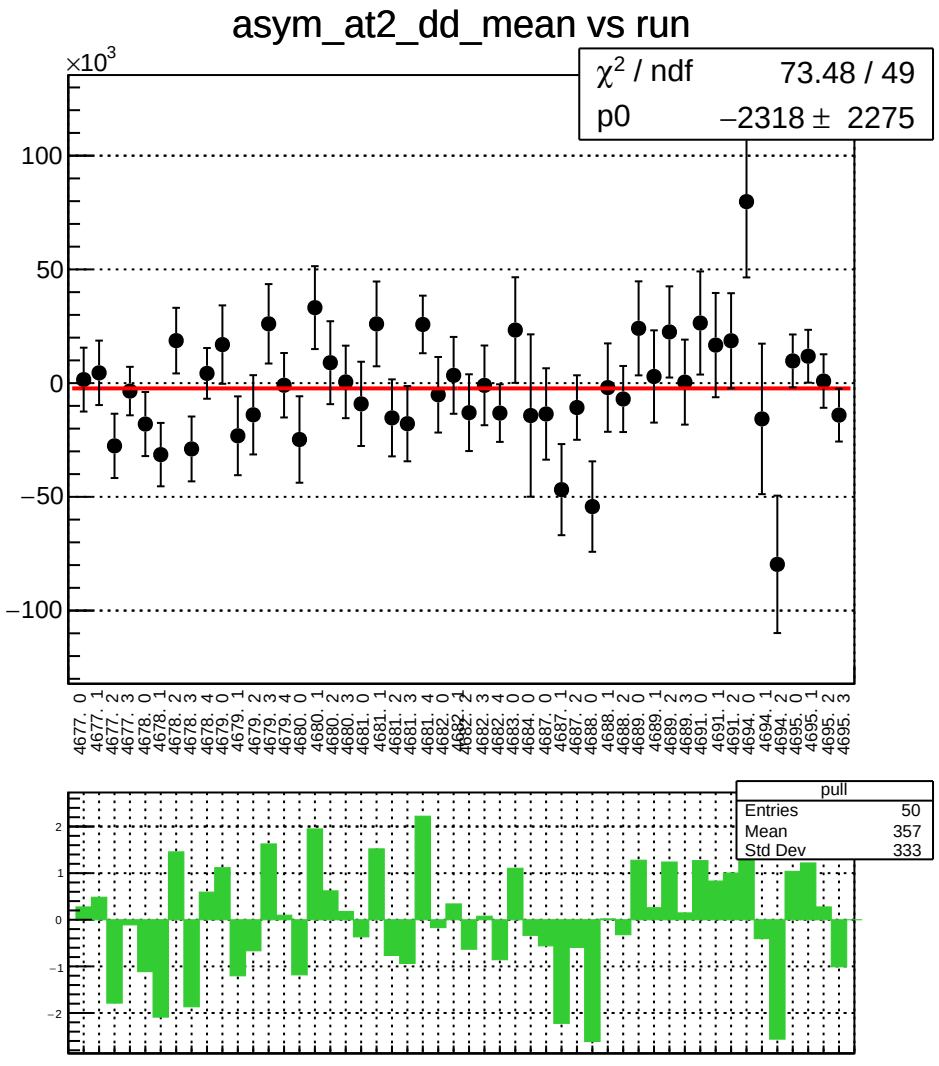
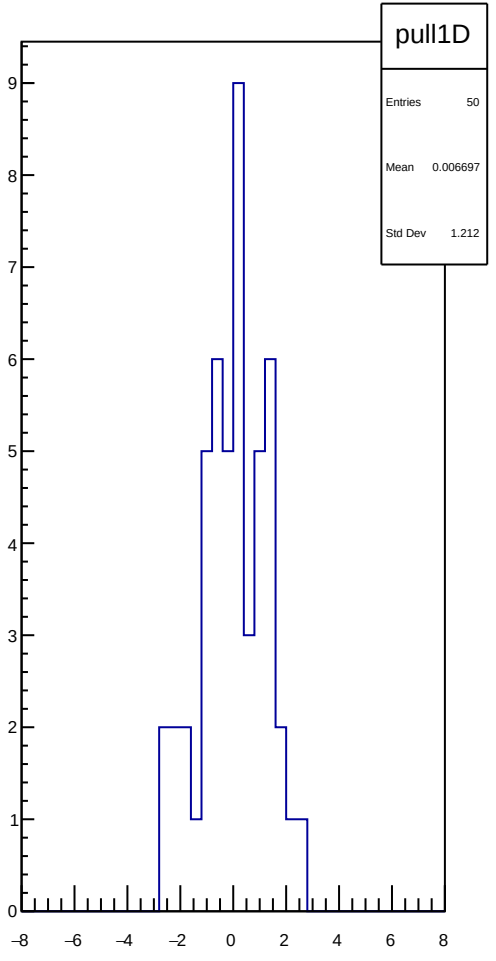
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

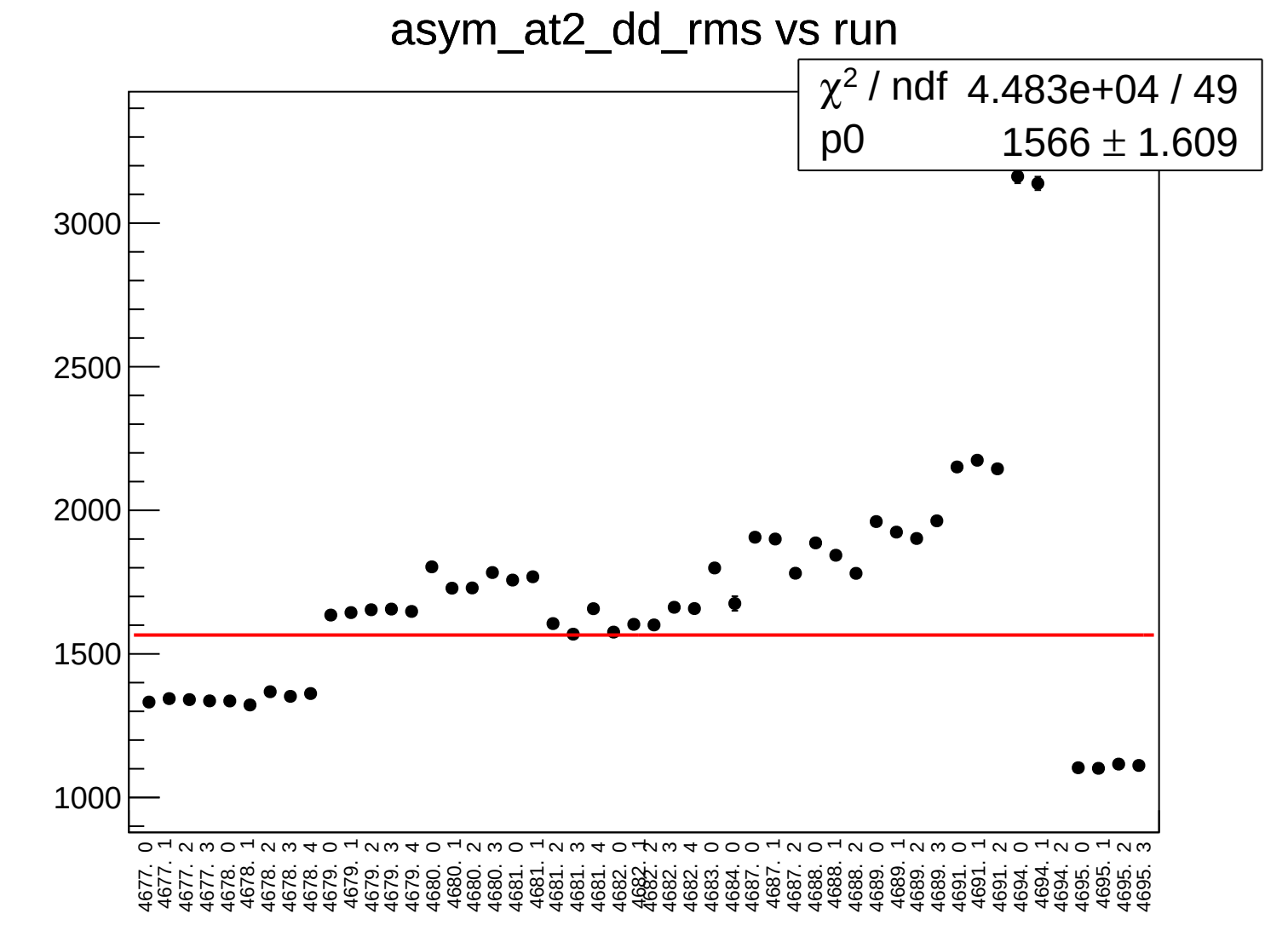

asym_at2_dd_correction_mean vs run
χ² / ndf 73.07 / 49
p0 2736 ± 2235
×10³
100
50
0
−50
−100
pull
Entries 50
Mean 209.4
Std Dev 186.8
2
1
0
−1
−2

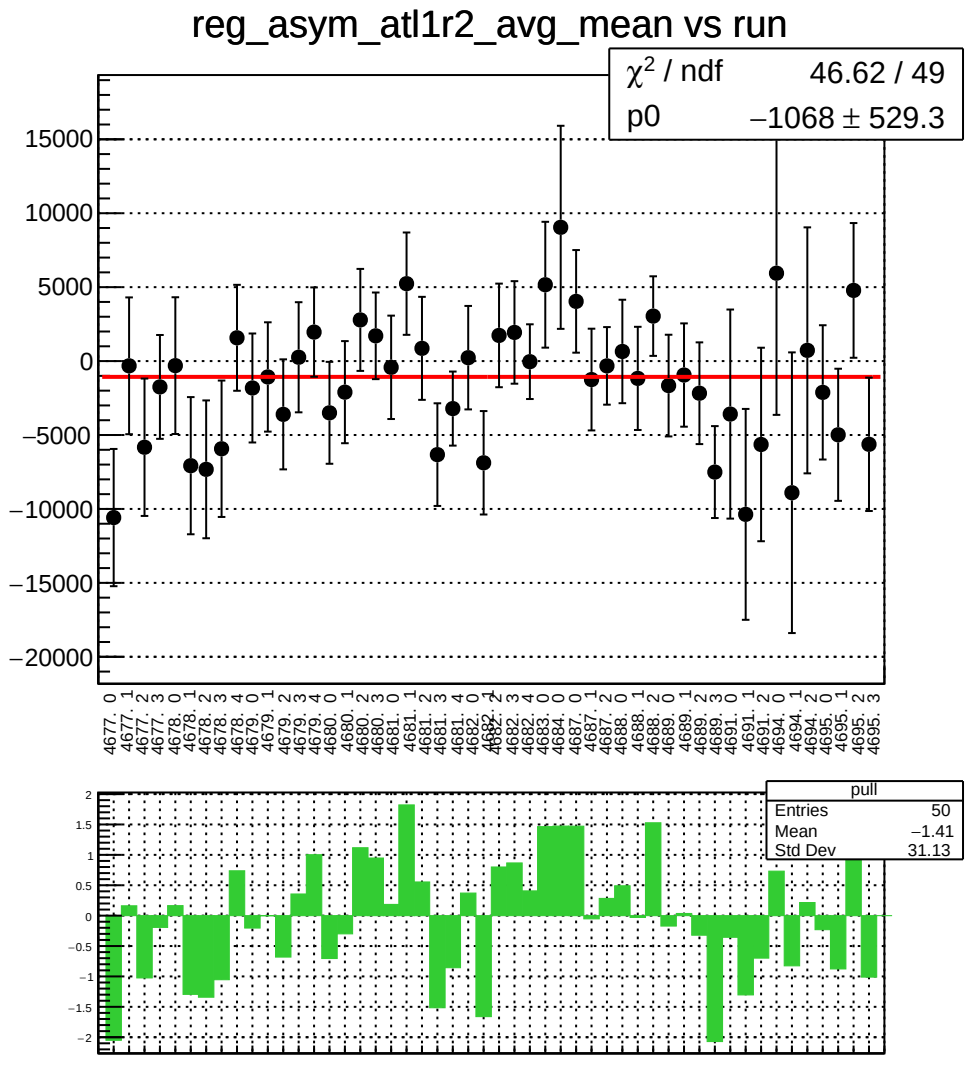

pull1D
Entries 50
Mean −0.01124
Std Dev 1.209
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

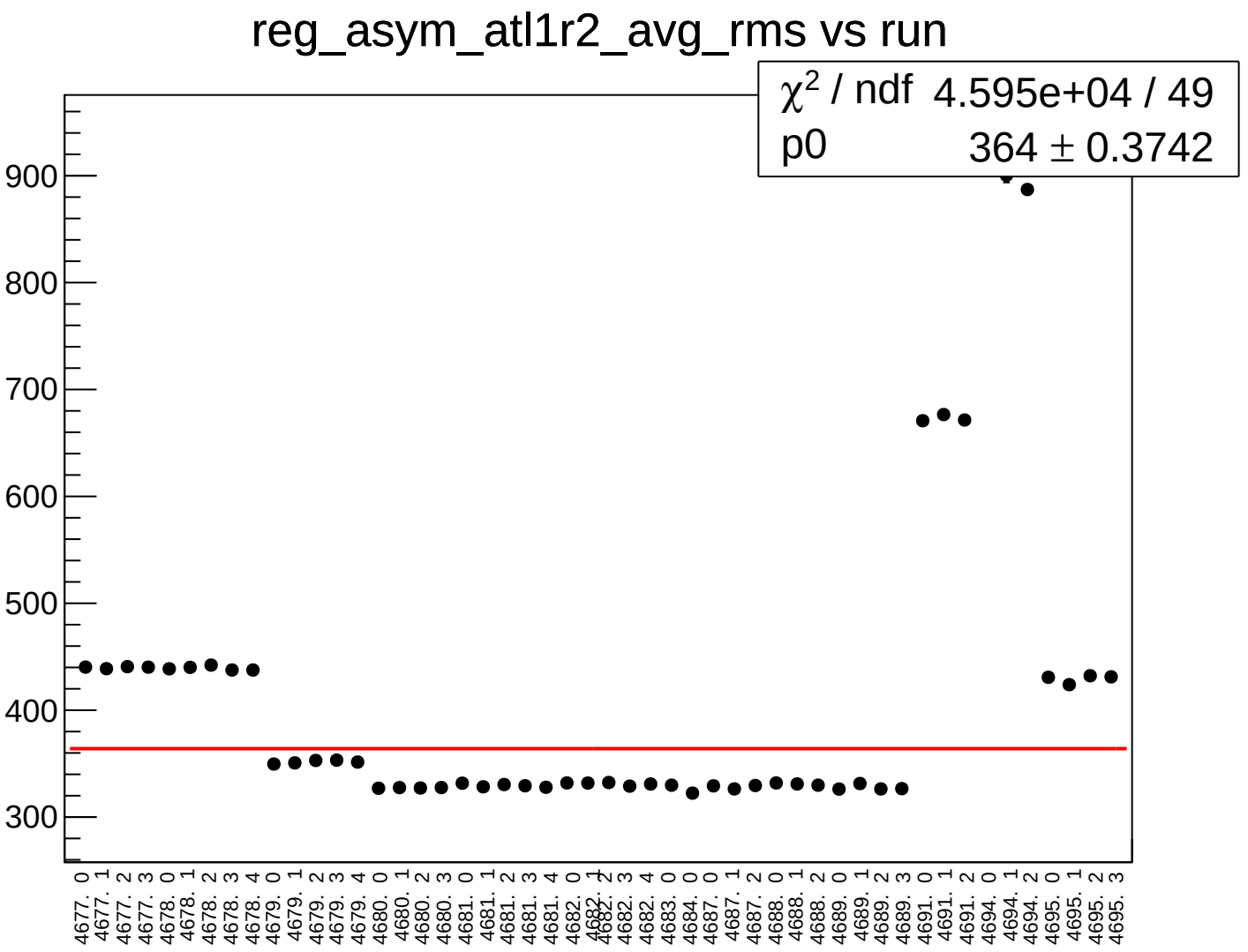

asym_at2_dd_correction_rms vs run
χ² / ndf 4.807e+04 / 49
p0 1535 ± 1.58
3000
2500
2000
1500
1000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_at2_dd_mean vs run
×10^3
χ² / ndf 73.48 / 49
p0 −2318 ± 2275
100
50
0
−50
−100
pull
Entries 50
Mean 357
Std Dev 333
2
1
0
−1
−2


pull1D
Entries 50
Mean 0.006697
Std Dev 1.212
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_rms vs run
χ² / ndf 4.483e+04 / 49
p0 1566 ± 1.609
3000
2500
2000
1500
1000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


reg_asym_atl1r2_avg_mean vs run
χ² / ndf 46.62 / 49
p0 −1068 ± 529.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean −1.41
Std Dev 31.13
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean −0.04722
Std Dev 0.9645
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_avg_rms vs run
χ² / ndf 4.595e+04 / 49
p0 364 ± 0.3742
900
800
700
600
500
400
300
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
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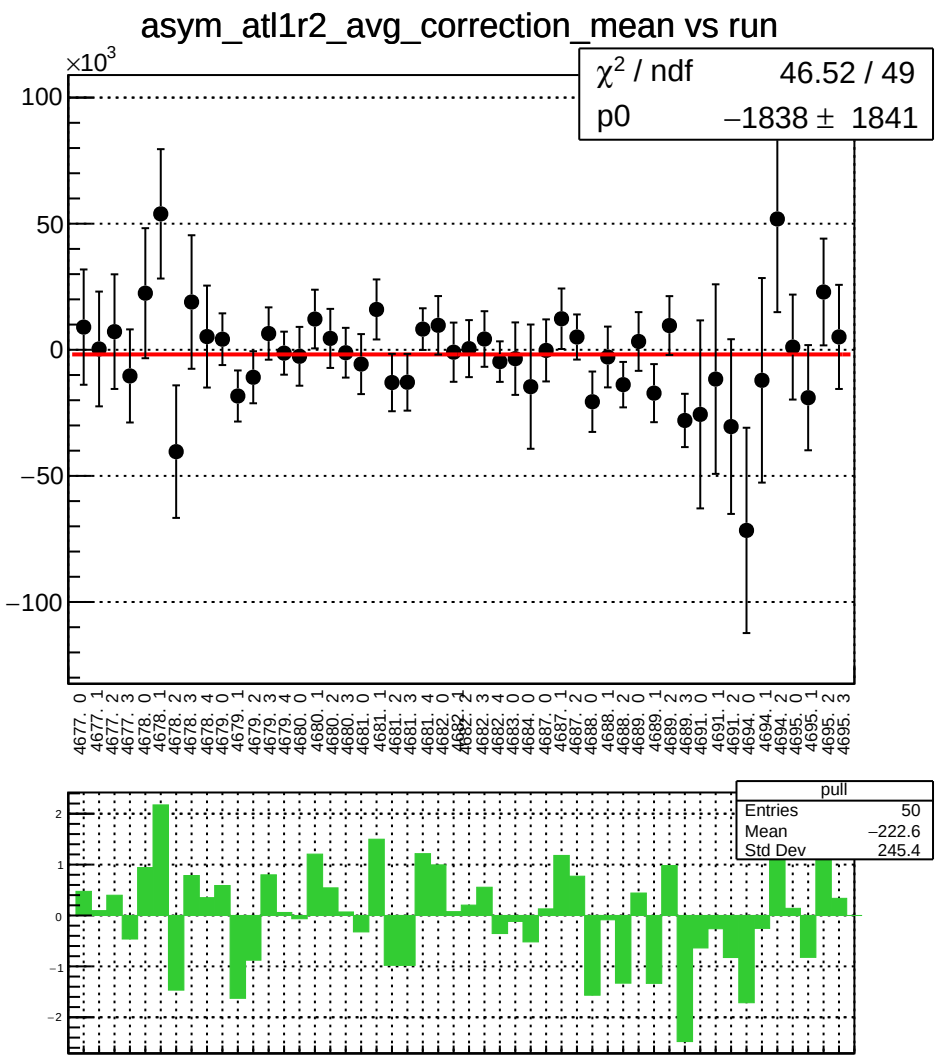
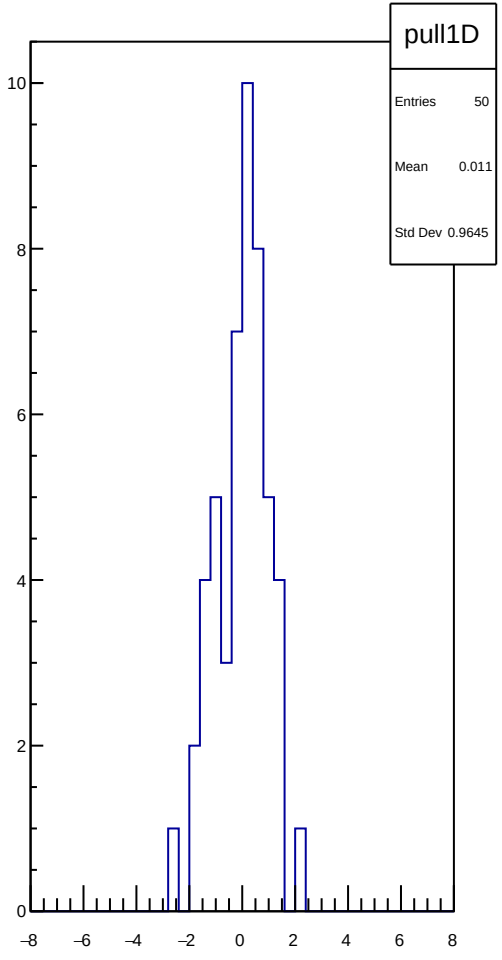
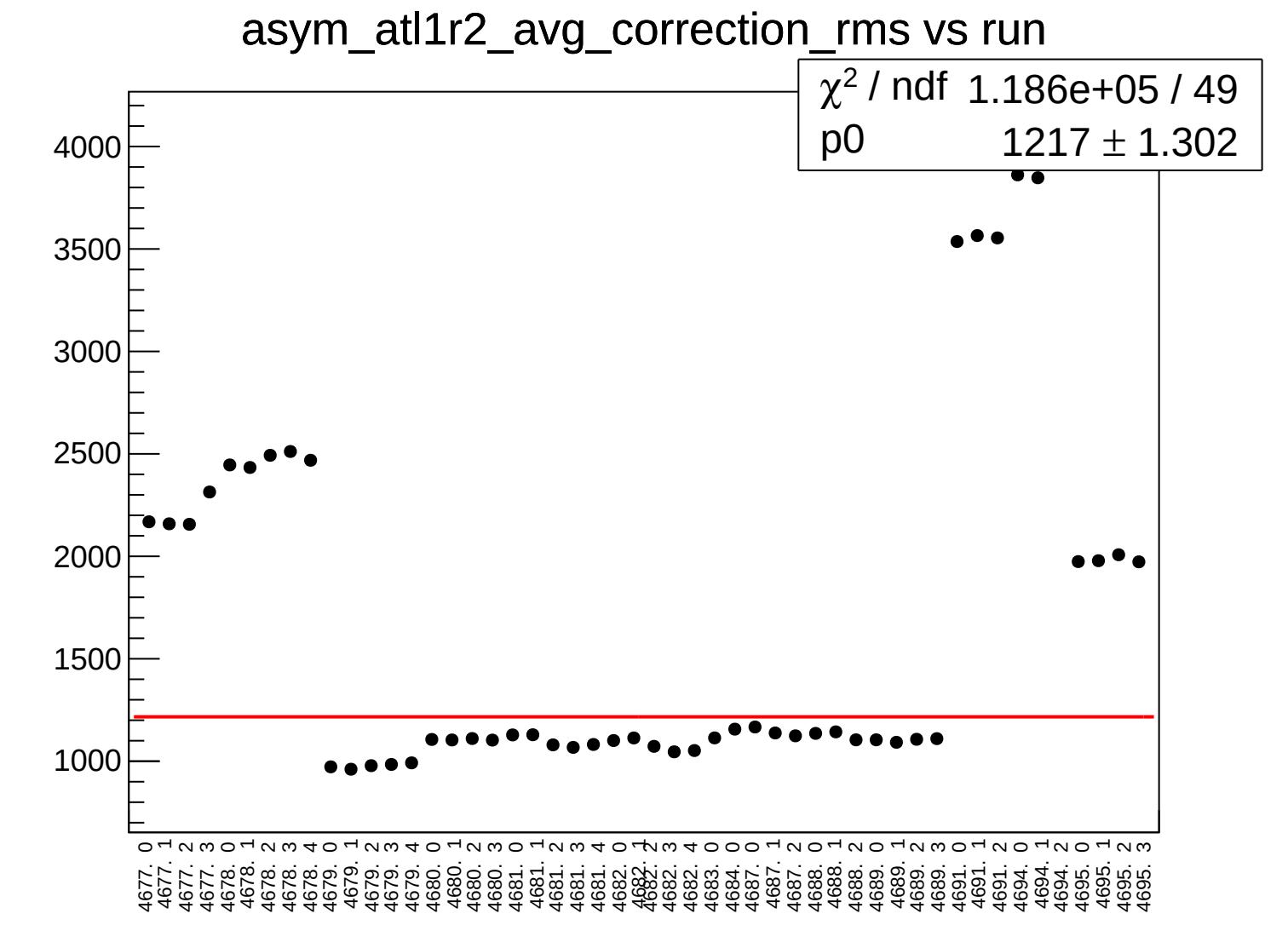
4695. 2
4695. 3


asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 46.52 / 49
p0 −1838 ± 1841
100
50
0
−50
−100
pull
Entries 50
Mean −222.6
Std Dev 245.4
2
1
0
−1
−2


pull1D
Entries 50
Mean 0.011
Std Dev 0.9645
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_avg_correction_rms vs run
χ² / ndf 1.186e+05 / 49
p0 1217 ± 1.302
4000
3500
3000
2500
2000
1500
1000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
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4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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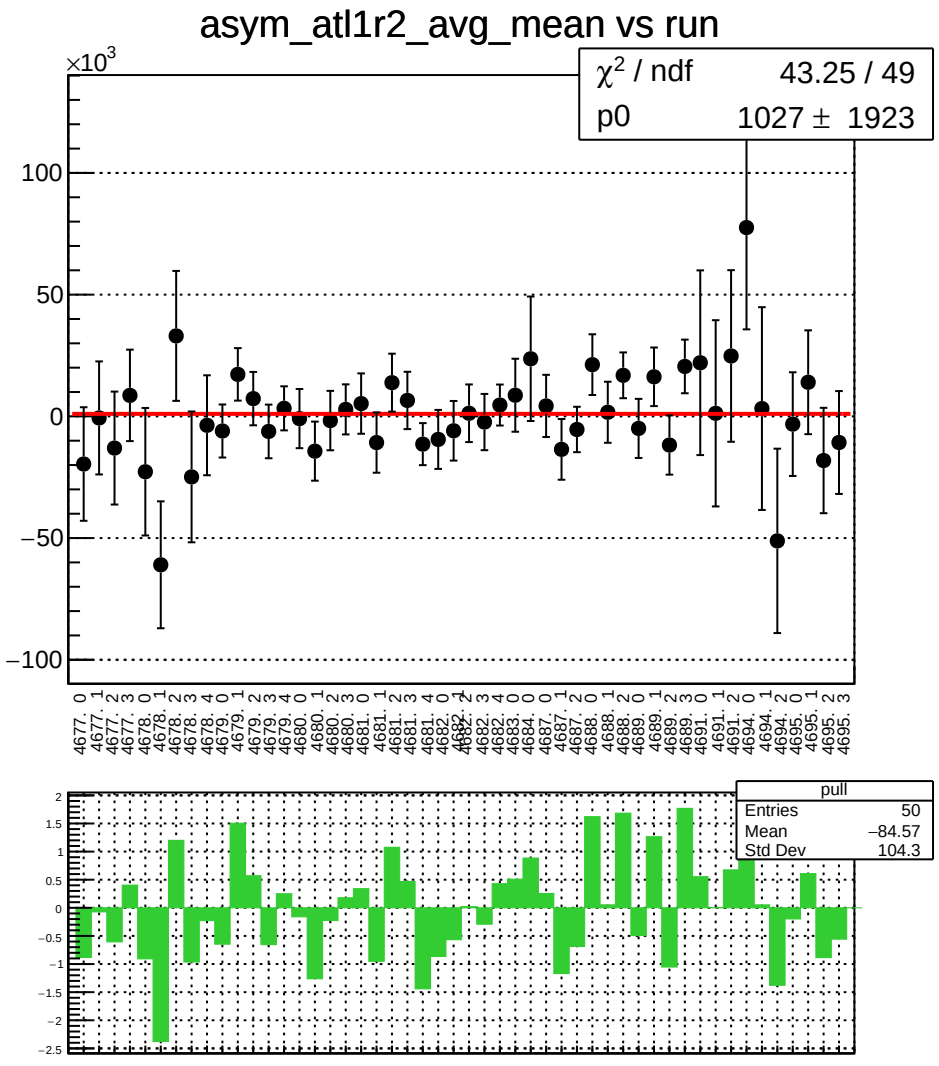
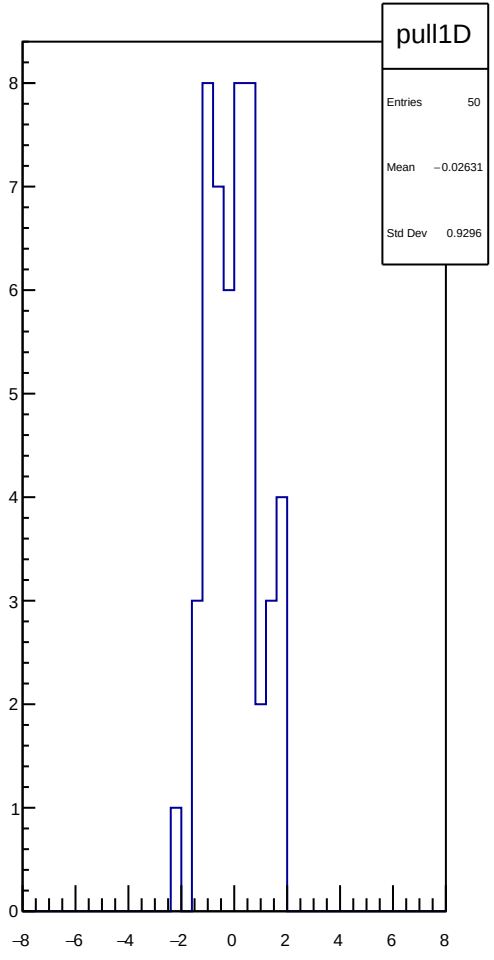
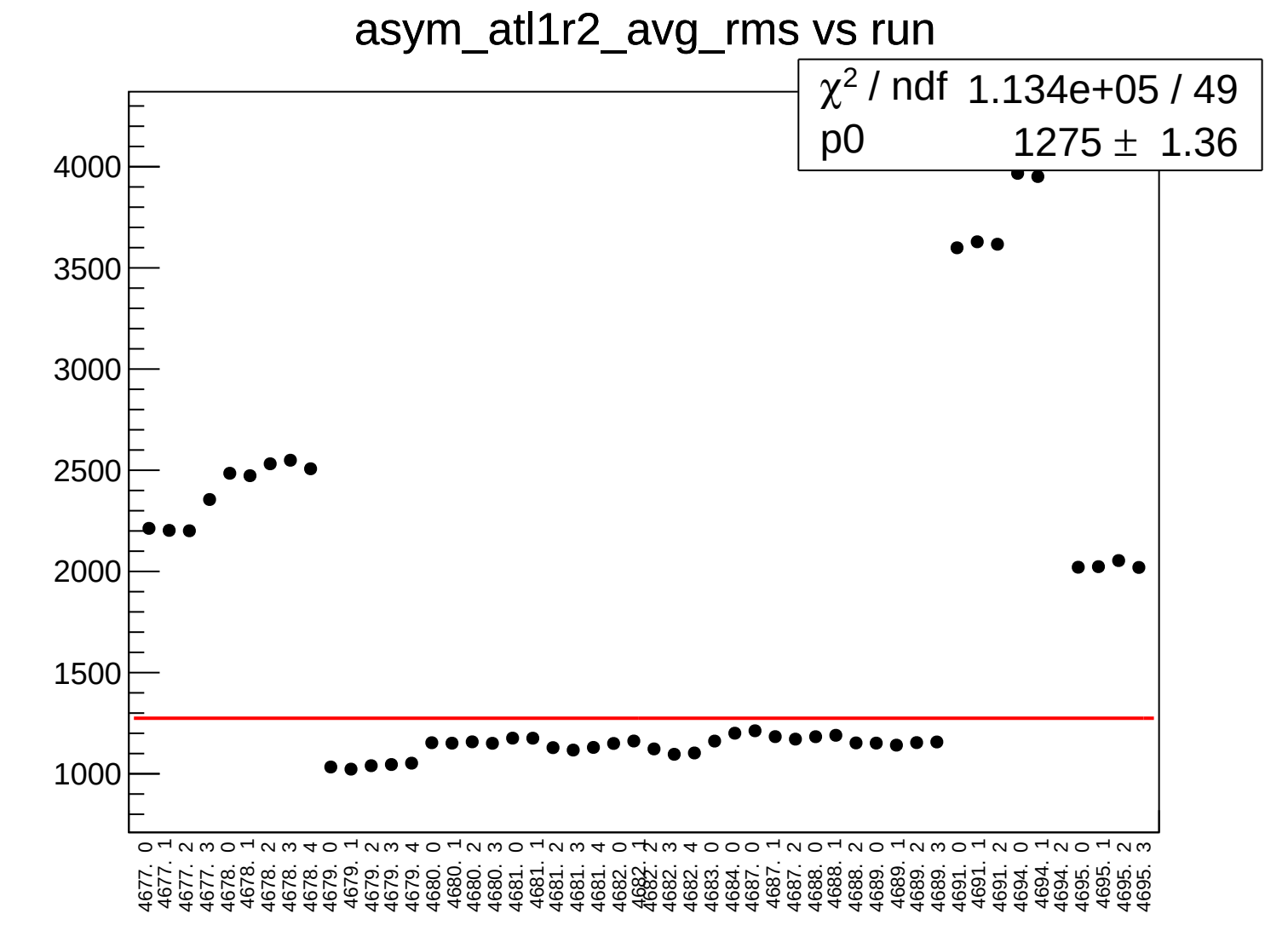
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 43.25 / 49
p0 1027 ± 1923
100
50
0
−50
−100
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean −84.57
Std Dev 104.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 50
Mean −0.02631
Std Dev 0.9296
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_avg_rms vs run
χ² / ndf 1.134e+05 / 49
p0 1275 ± 1.36
4000
3500
3000
2500
2000
1500
1000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
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4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
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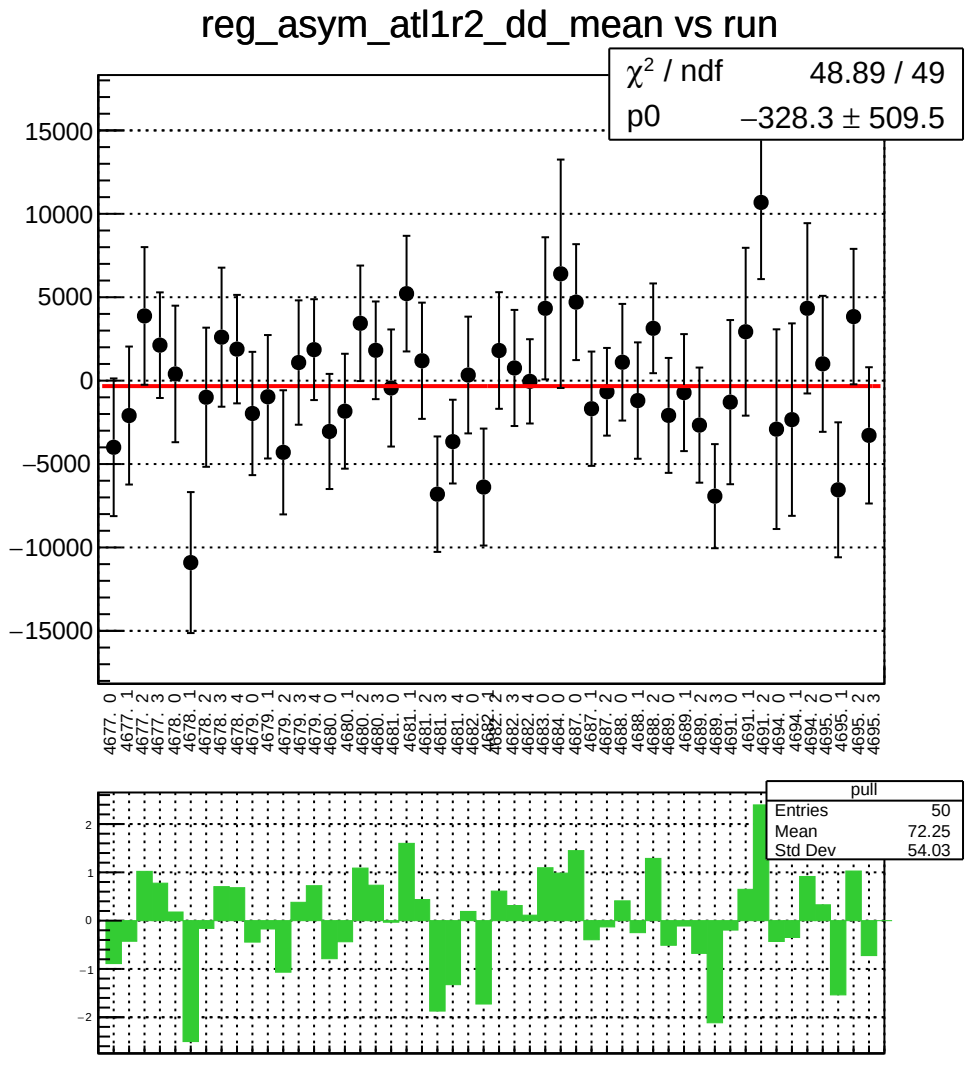
4695. 2
4695. 3


reg_asym_atl1r2_dd_mean vs run
χ² / ndf 48.89 / 49
p0 −328.3 ± 509.5
15000
10000
5000
0
−5000
−10000
−15000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
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4689. 1
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4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
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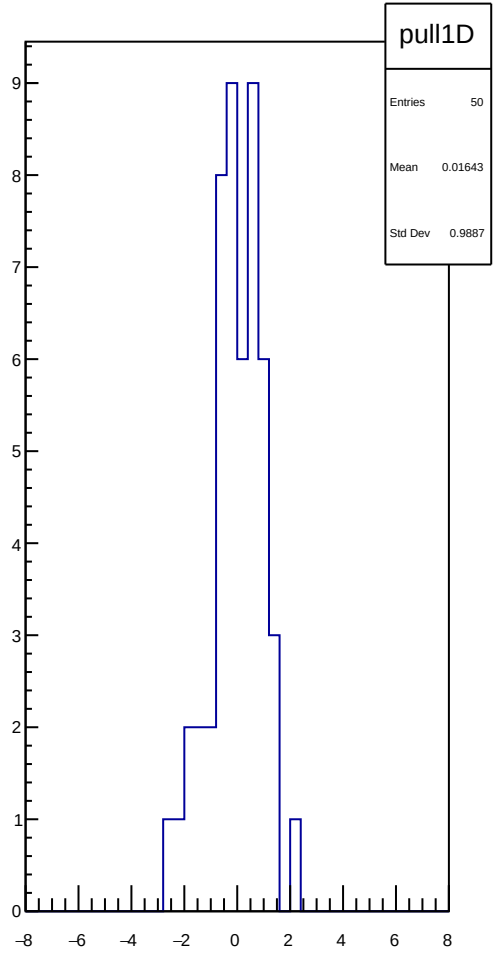
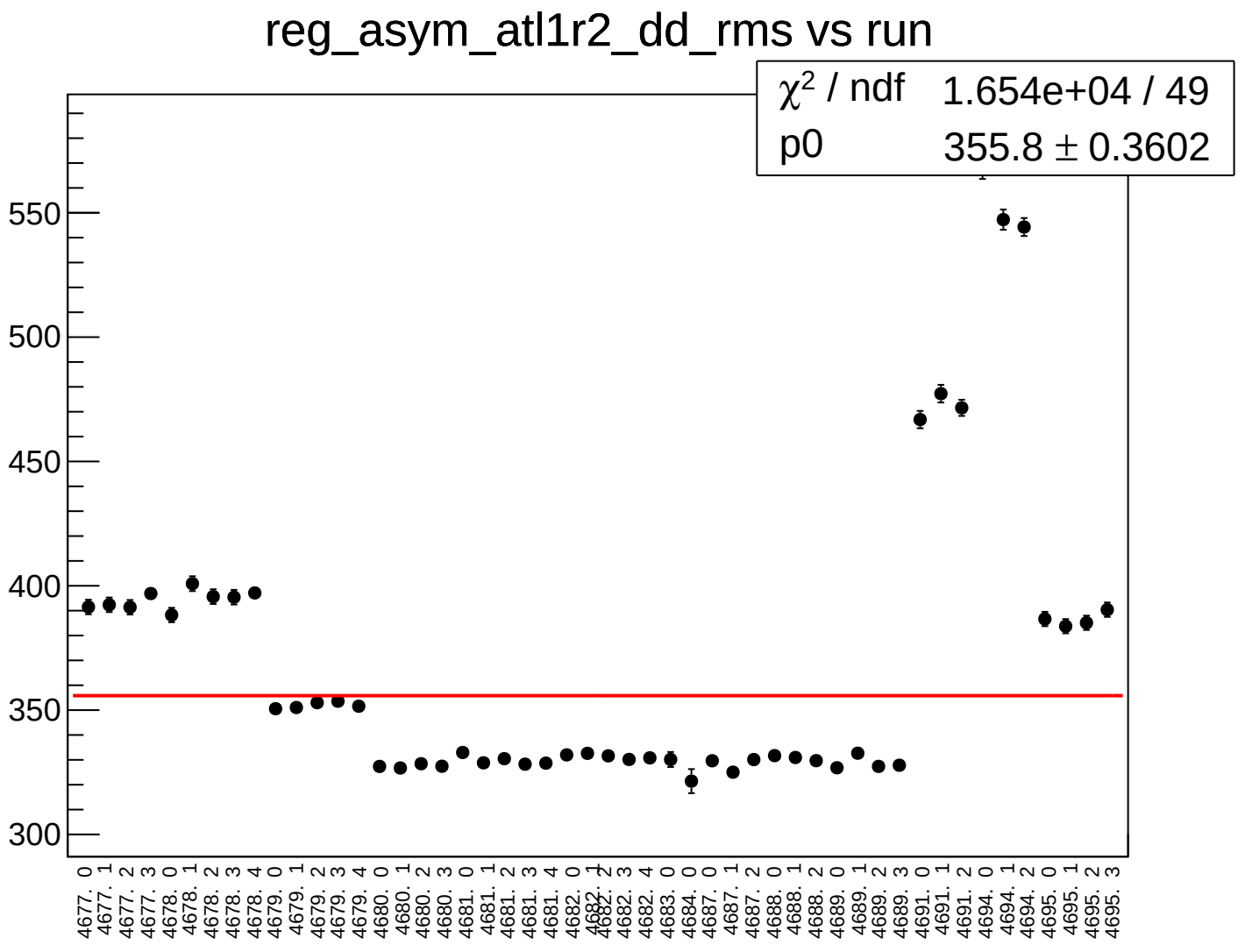
4695. 2
4695. 3
pull
Entries 50
Mean 72.25
Std Dev 54.03
2
1
0
−1
−2


pull1D
Entries 50
Mean 0.01643
Std Dev 0.9887
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_rms vs run
χ² / ndf 1.654e+04 / 49
p0 355.8 ± 0.3602
550
500
450
400
350
300
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
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4688. 0
4688. 1
4688. 2
4689. 0
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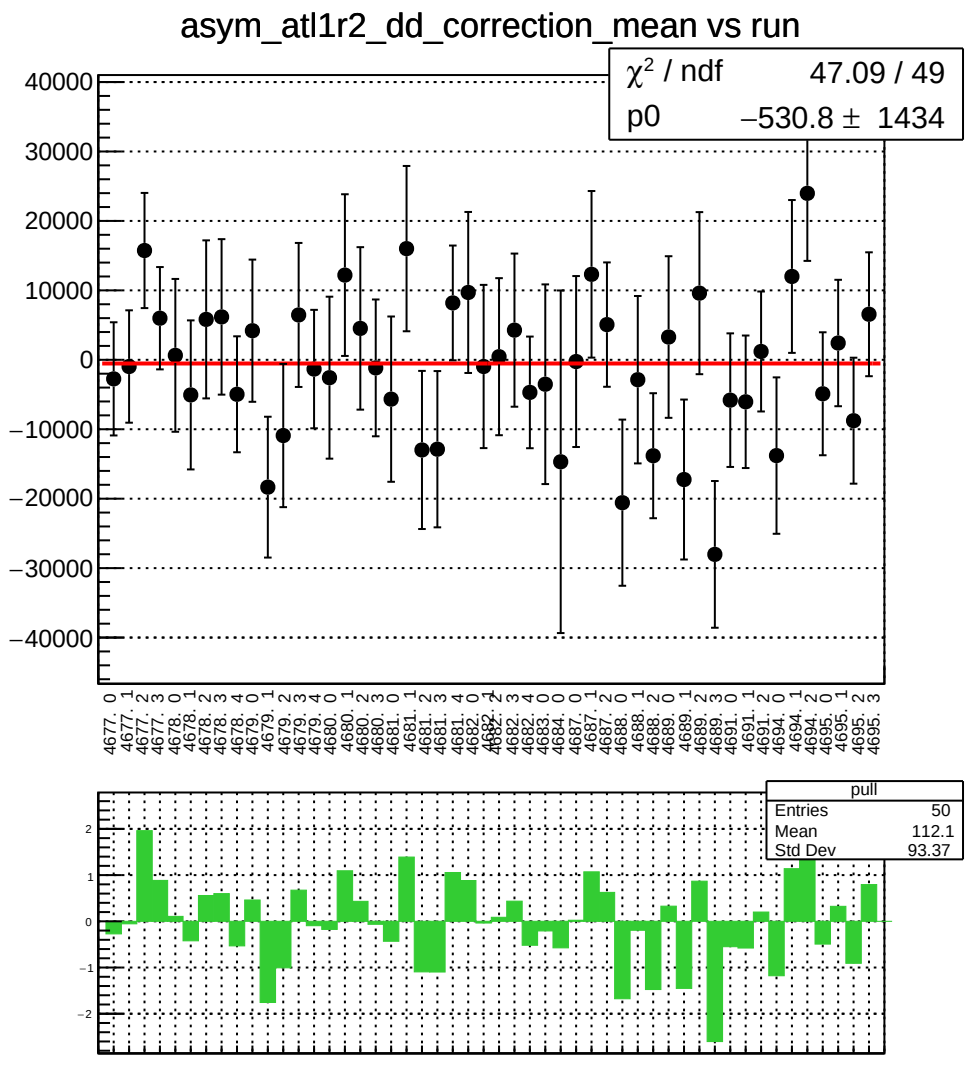
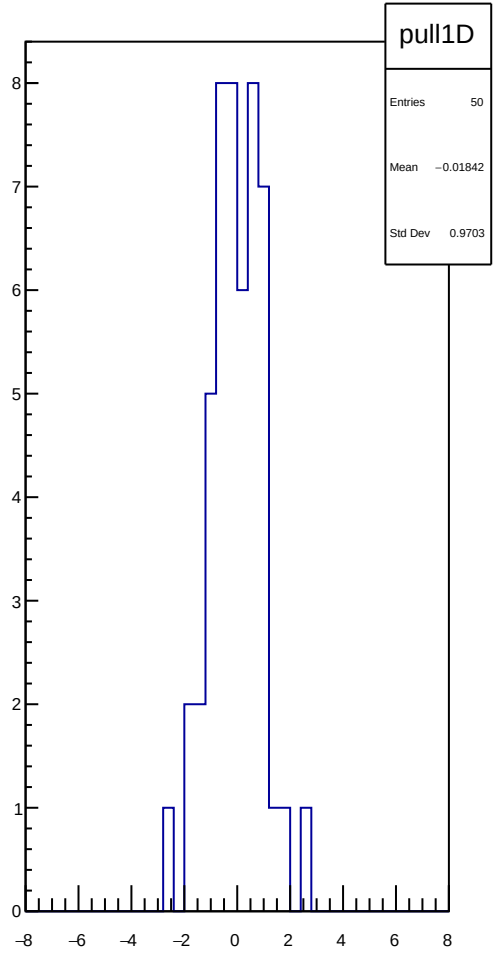
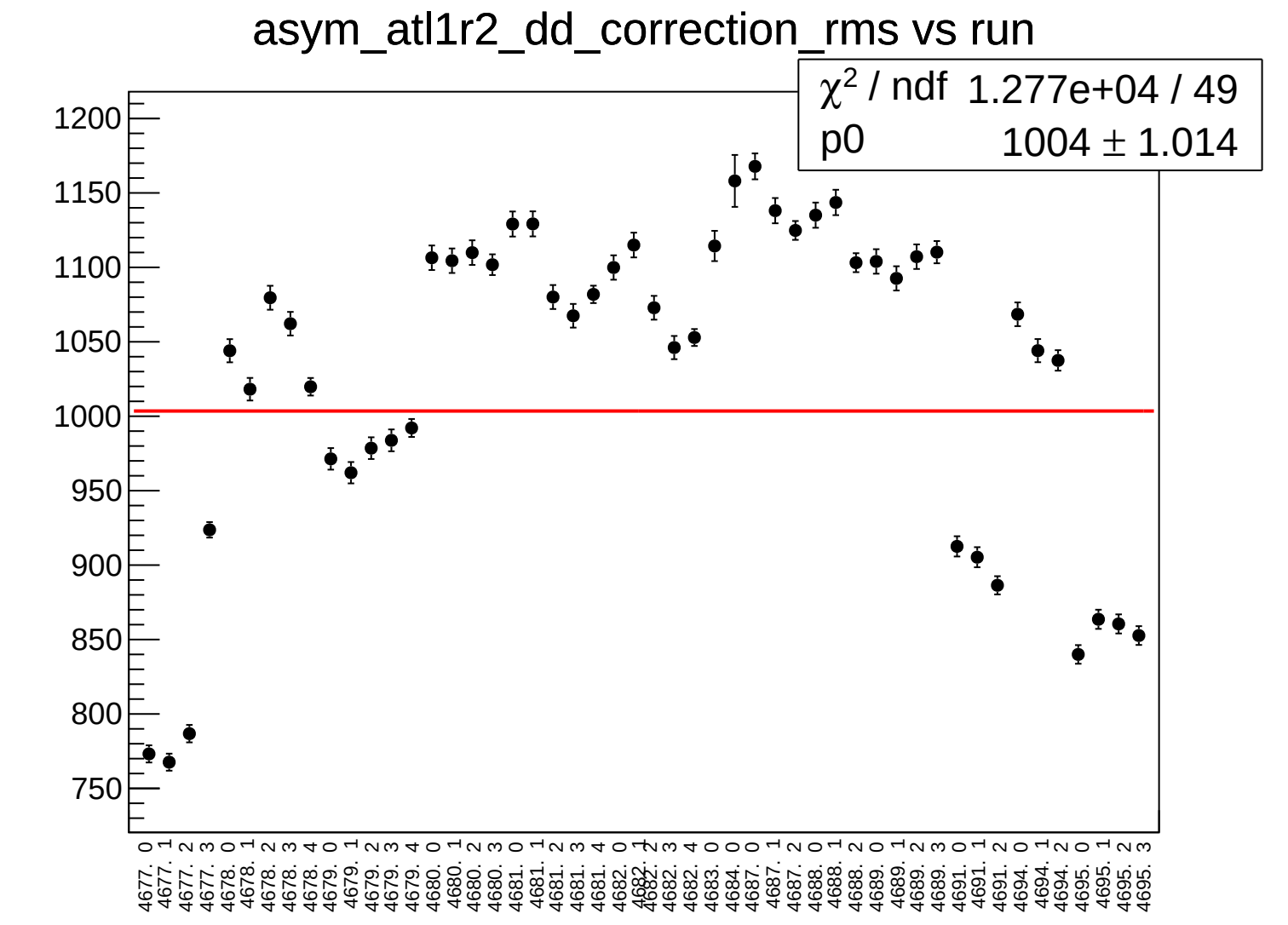
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_atl1r2_dd_correction_mean vs run
χ² / ndf 47.09 / 49
p0 −530.8 ± 1434
pull
Entries 50
Mean 112.1
Std Dev 93.37


pull1D
Entries 50
Mean −0.01842
Std Dev 0.9703


asym_atl1r2_dd_correction_rms vs run
χ² / ndf 1.277e+04 / 49
p0 1004 ± 1.014
1200
1150
1100
1050
1000
950
900
850
800
750
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
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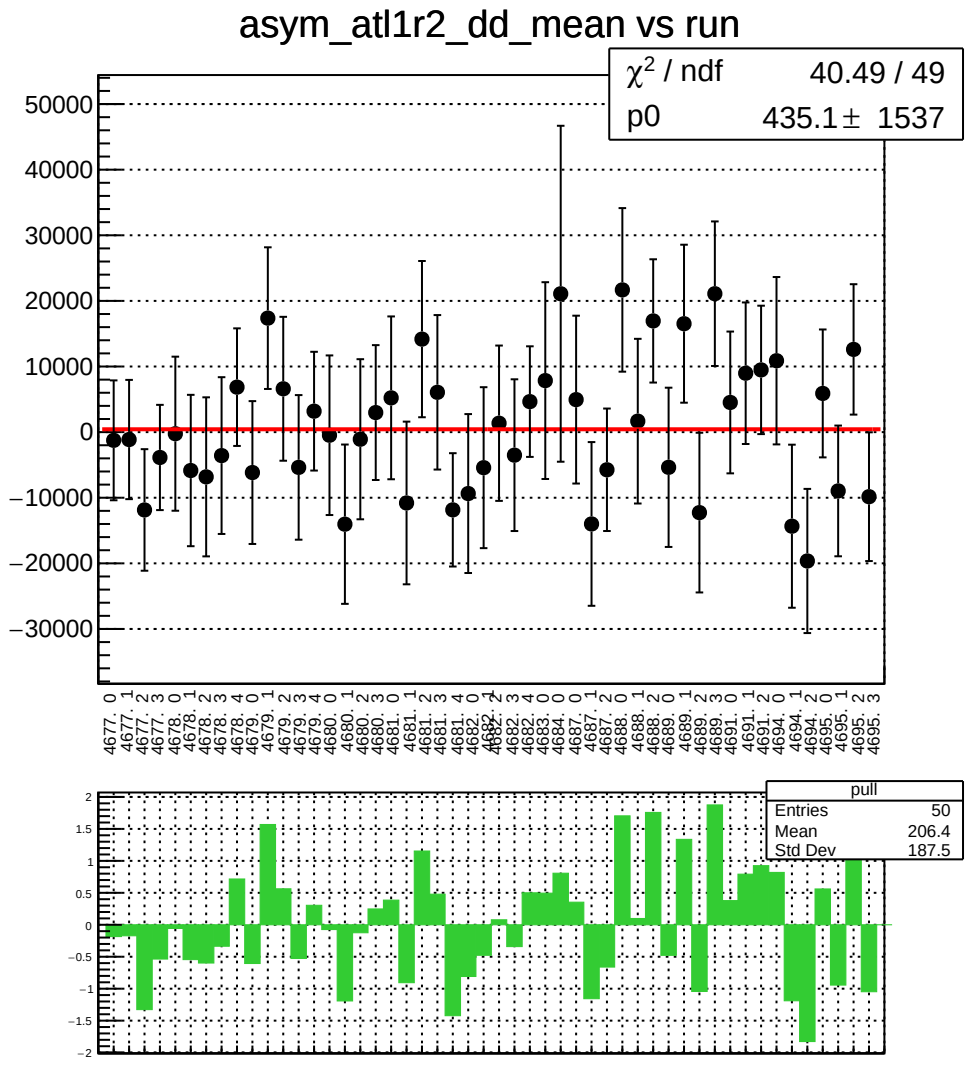
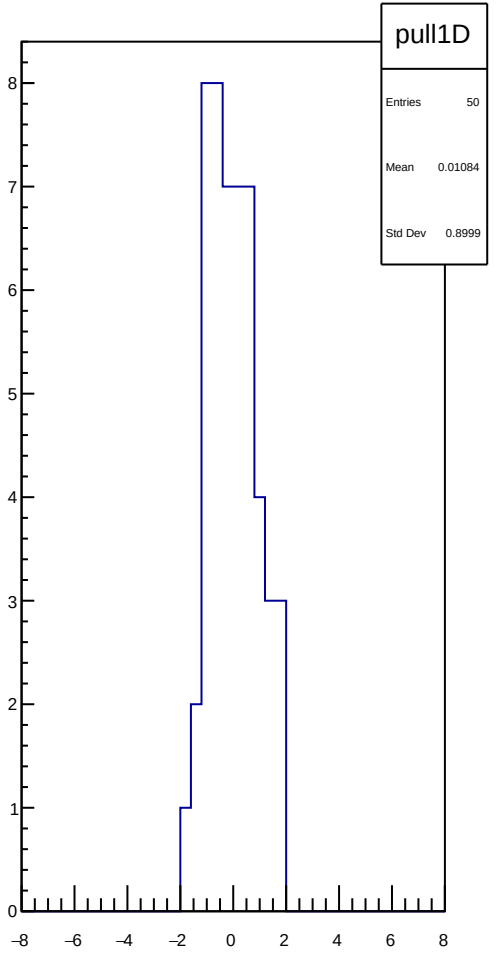
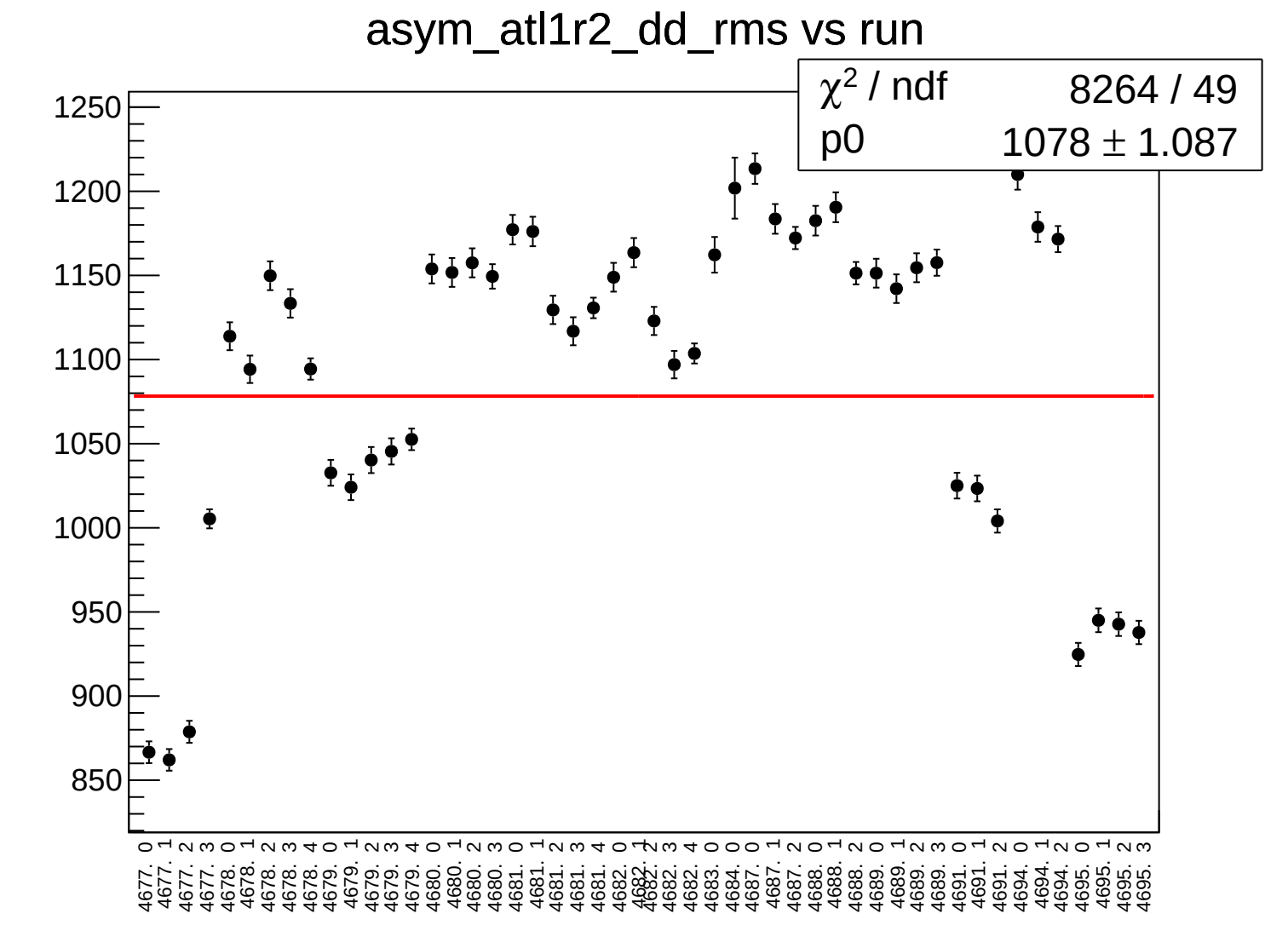
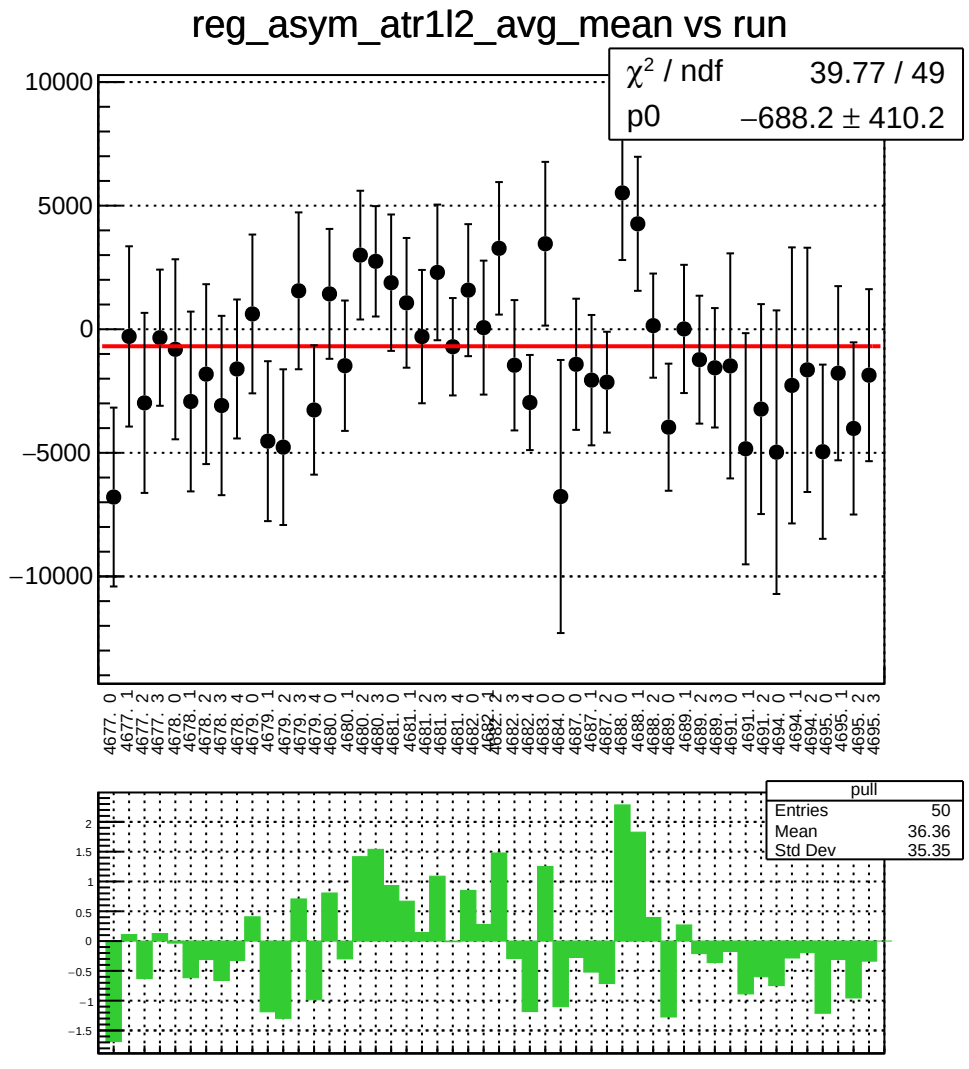
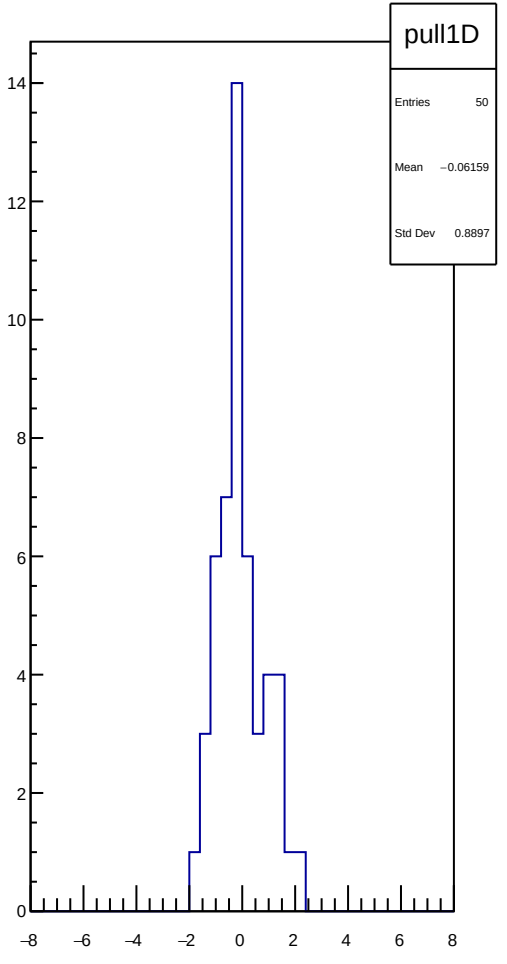
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

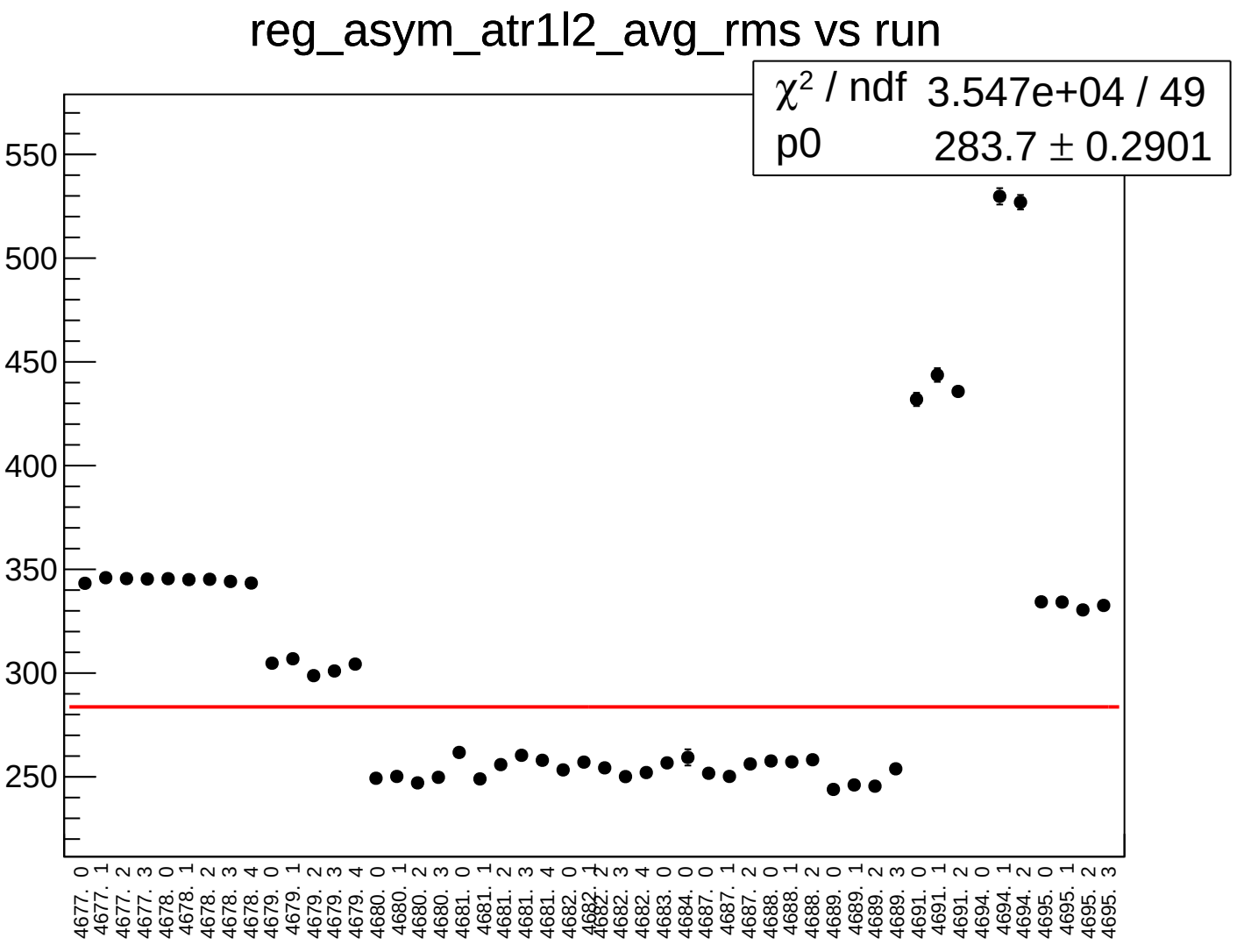

asym_atl1r2_dd_mean vs run
χ² / ndf 40.49 / 49
p0 435.1 ± 1537
pull
Entries 50
Mean 206.4
Std Dev 187.5


pull1D
Entries 50
Mean 0.01084
Std Dev 0.8999


asym_atl1r2_dd_rms vs run
χ² / ndf 8264 / 49
p0 1078 ± 1.087
1250
1200
1150
1100
1050
1000
950
900
850
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


reg_asym_atr1l2_avg_mean vs run
χ² / ndf 39.77 / 49
p0 −688.2 ± 410.2
10000
5000
0
−5000
−10000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 36.36
Std Dev 35.35
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 50
Mean −0.06159
Std Dev 0.8897
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_avg_rms vs run
χ² / ndf 3.547e+04 / 49
p0 283.7 ± 0.2901
550
500
450
400
350
300
250
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
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4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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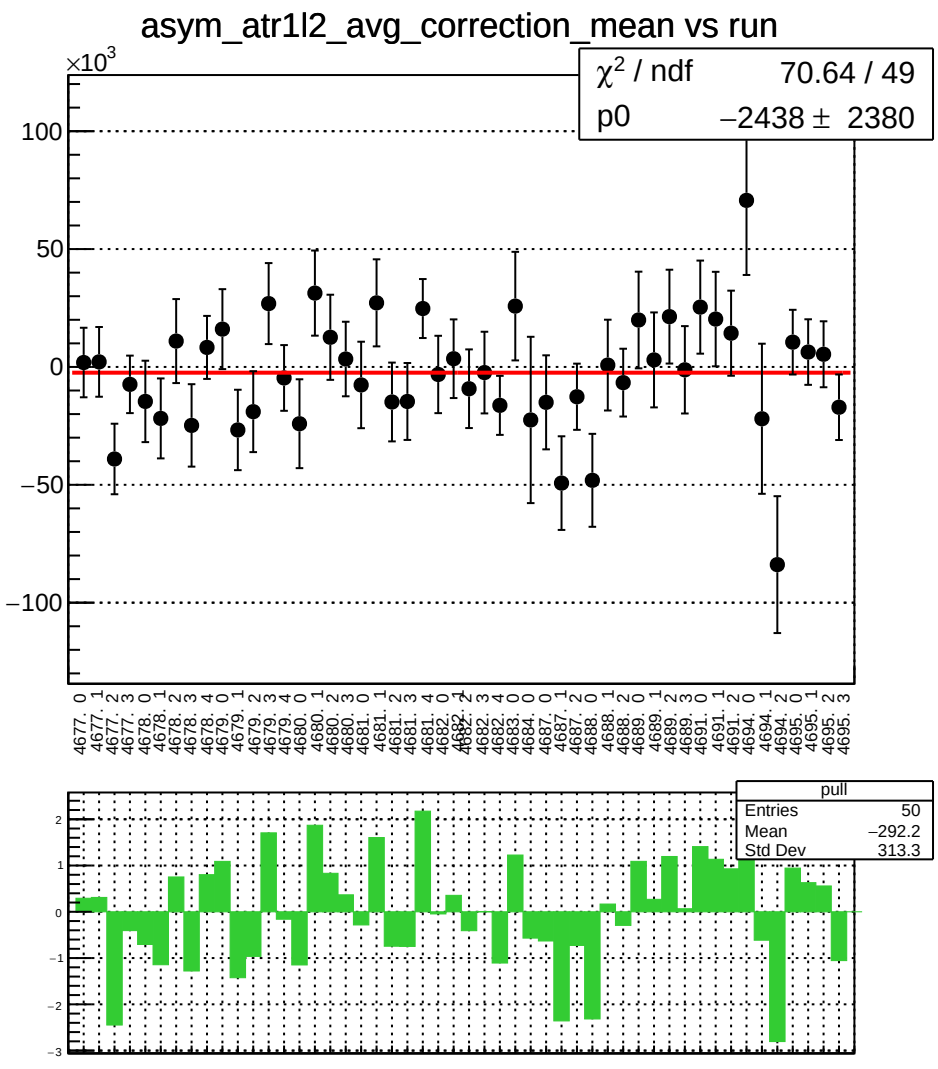
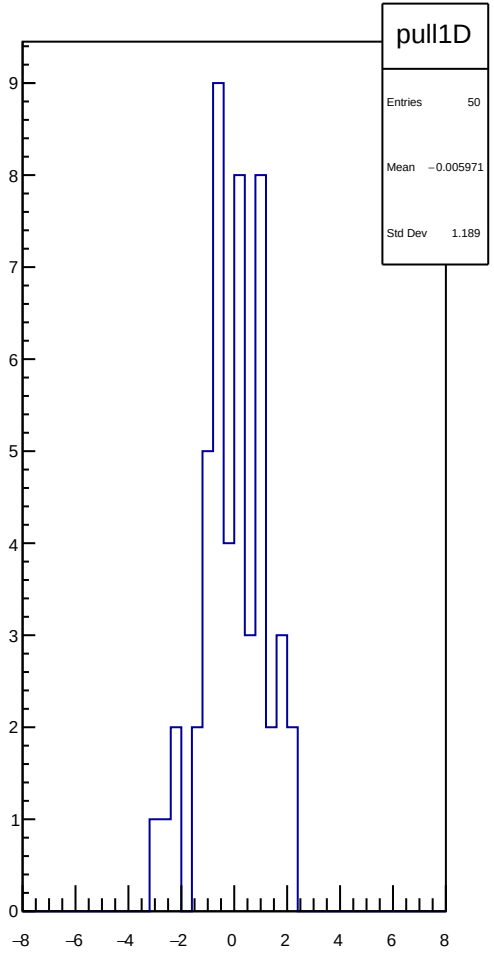
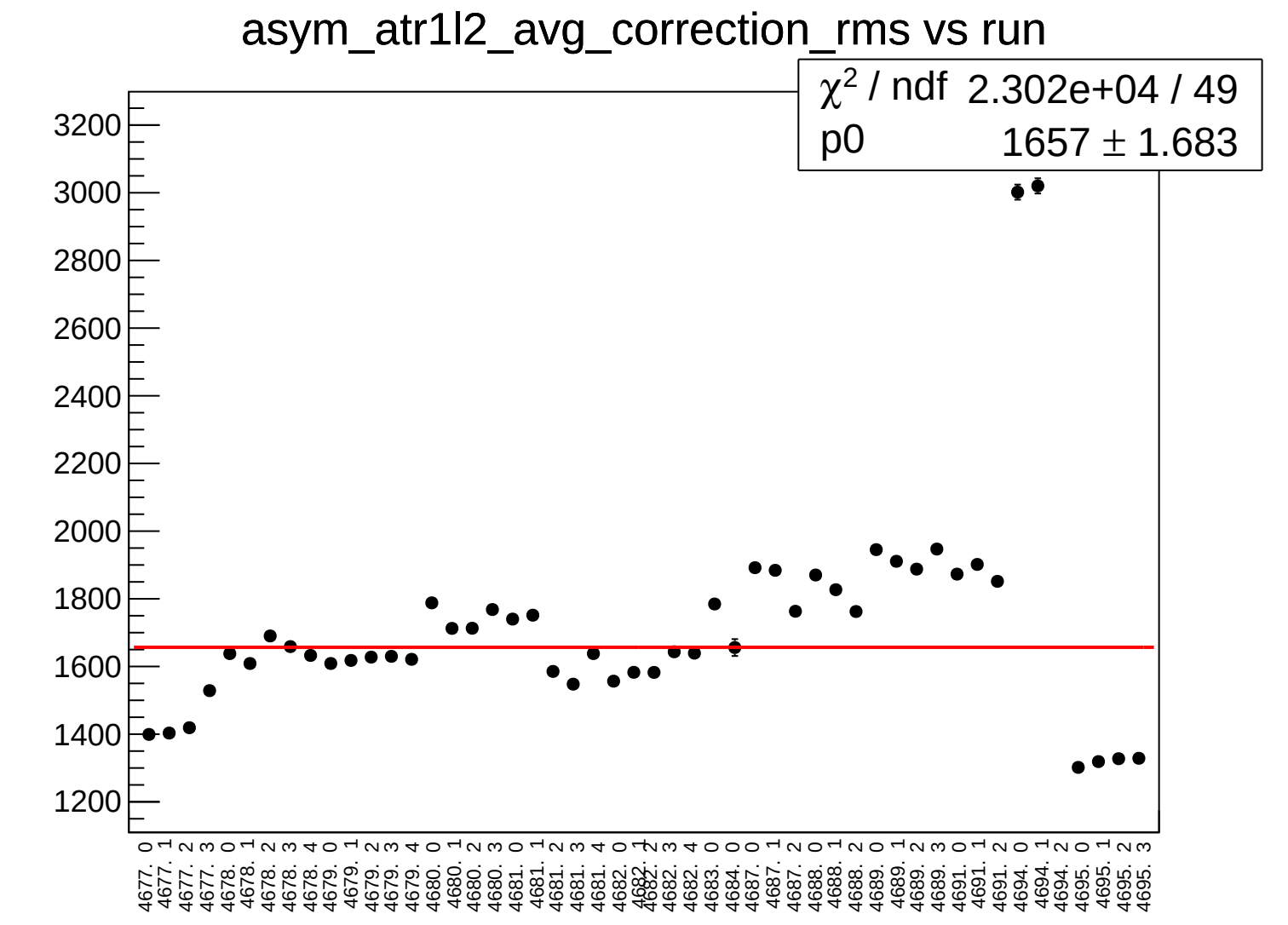
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 70.64 / 49
p0 −2438 ± 2380
100
50
0
−50
−100
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean −292.2
Std Dev 313.3
2
1
0
−1
−2
−3


pull1D
Entries 50
Mean −0.005971
Std Dev 1.189
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_avg_correction_rms vs run
χ² / ndf 2.302e+04 / 49
p0 1657 ± 1.683
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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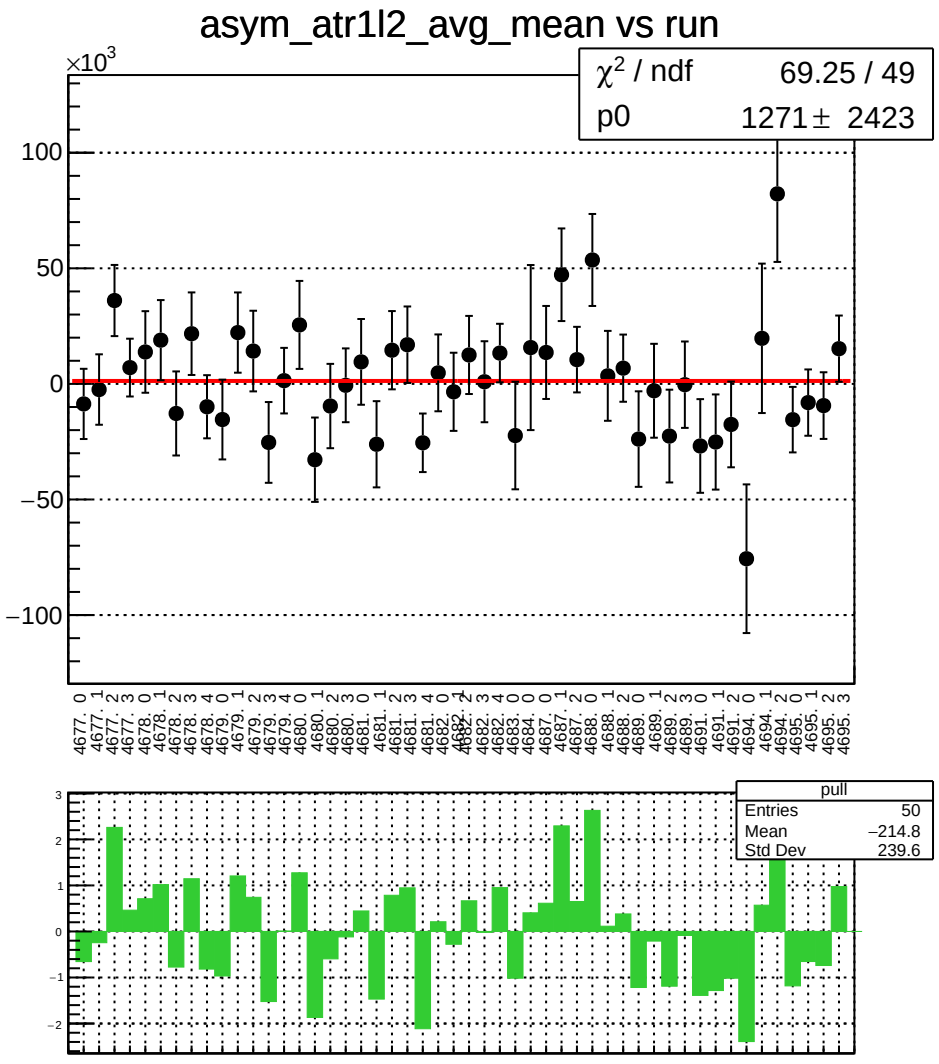
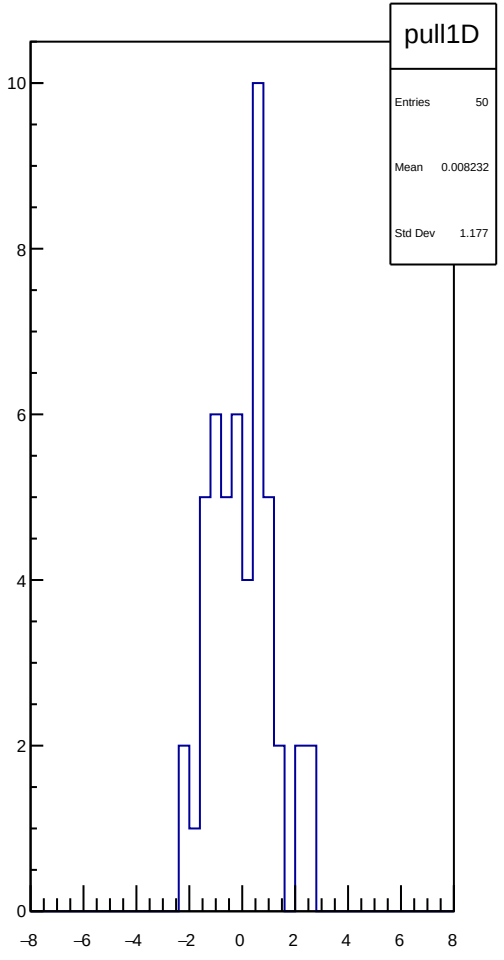
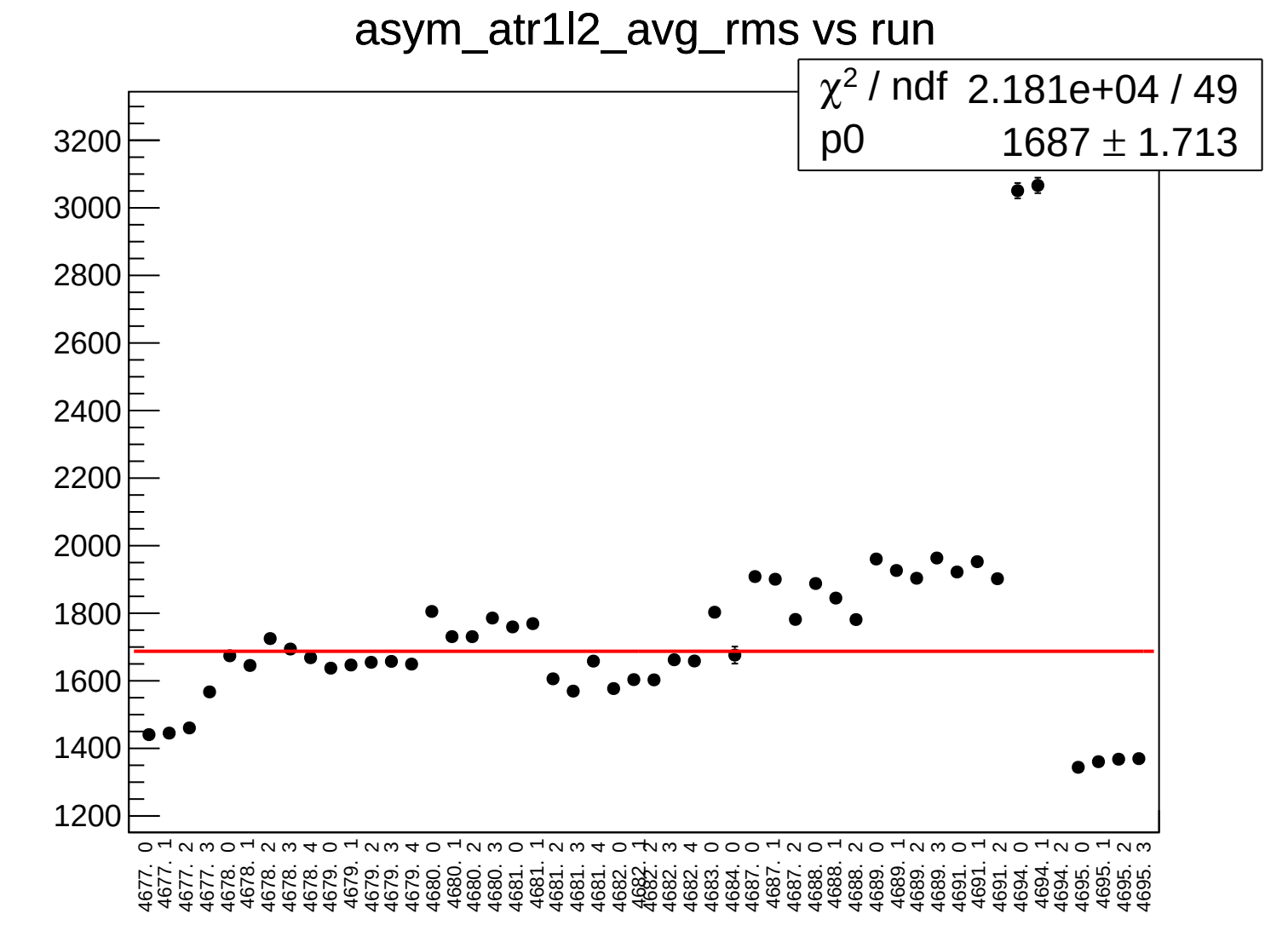
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 69.25 / 49
p0 1271 ± 2423
100
50
0
−50
−100
pull
Entries 50
Mean −214.8
Std Dev 239.6
3
2
1
0
−1
−2


pull1D
Entries 50
Mean 0.008232
Std Dev 1.177
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_avg_rms vs run
χ² / ndf 2.181e+04 / 49
p0 1687 ± 1.713
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4691. 2
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4694. 2
4695. 0
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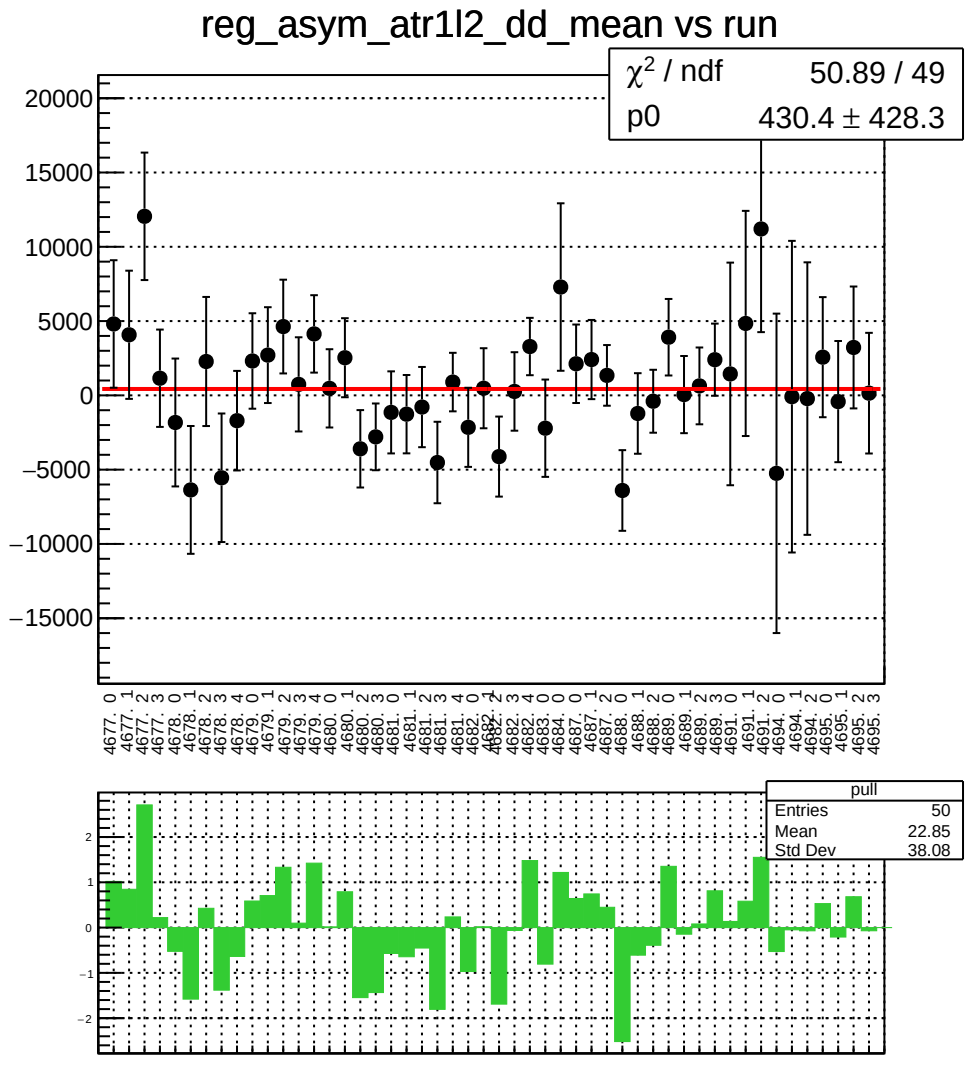
4695. 2
4695. 3


reg_asym_atr1l2_dd_mean vs run
χ² / ndf 50.89 / 49
p0 430.4 ± 428.3
20000
15000
10000
5000
0
−5000
−10000
−15000
4677. 0
4677. 1
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4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
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4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
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4681. 2
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4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
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4687. 1
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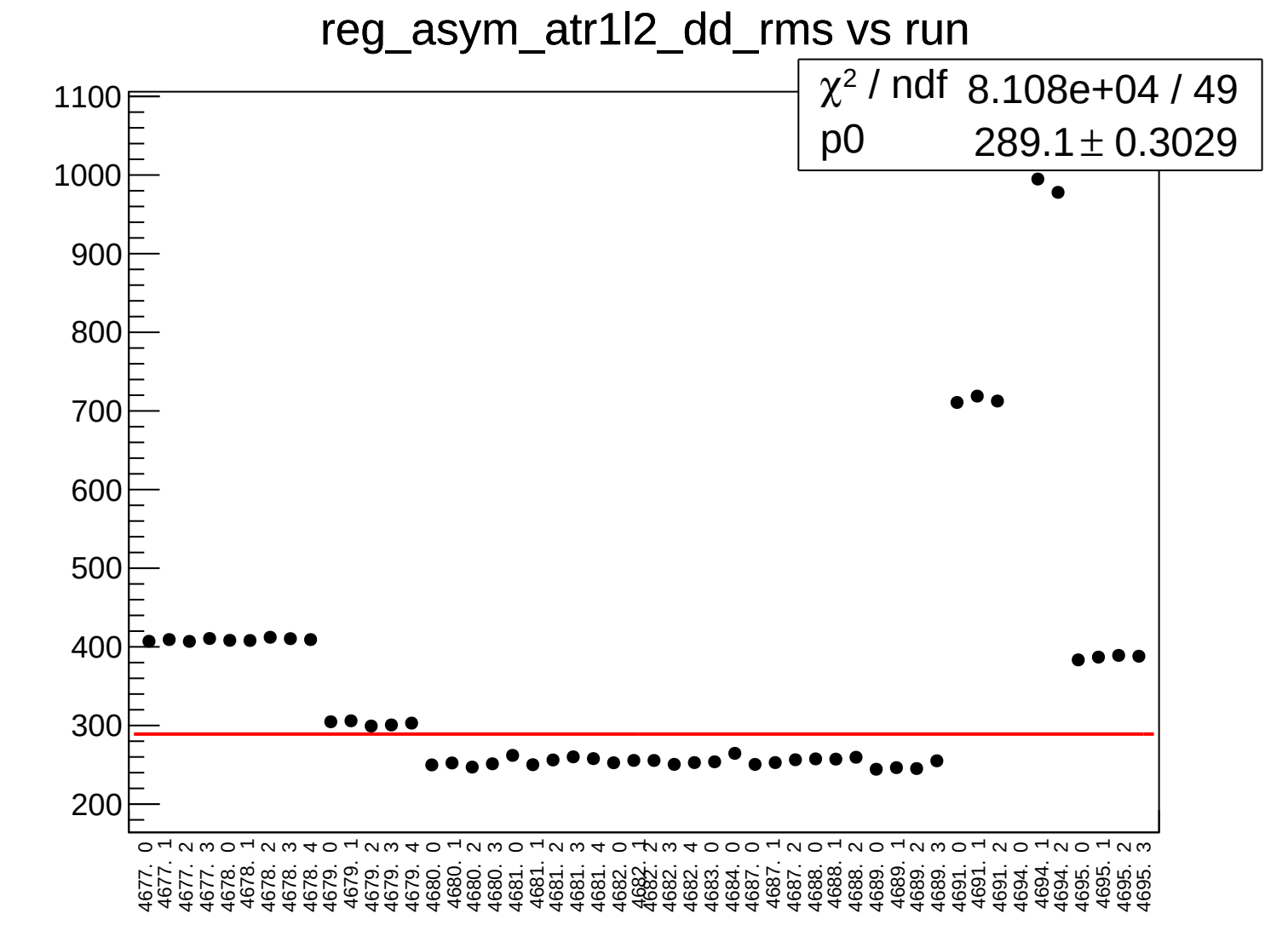
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 22.85
Std Dev 38.08
2
1
0
−1
−2
pull1D
Entries 50
Mean 0.03976
Std Dev 1.008
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_dd_rms vs run
χ² / ndf 8.108e+04 / 49
p0 289.1 ± 0.3029
1100
1000
900
800
700
600
500
400
300
200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
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4689. 1
4689. 2
4689. 3
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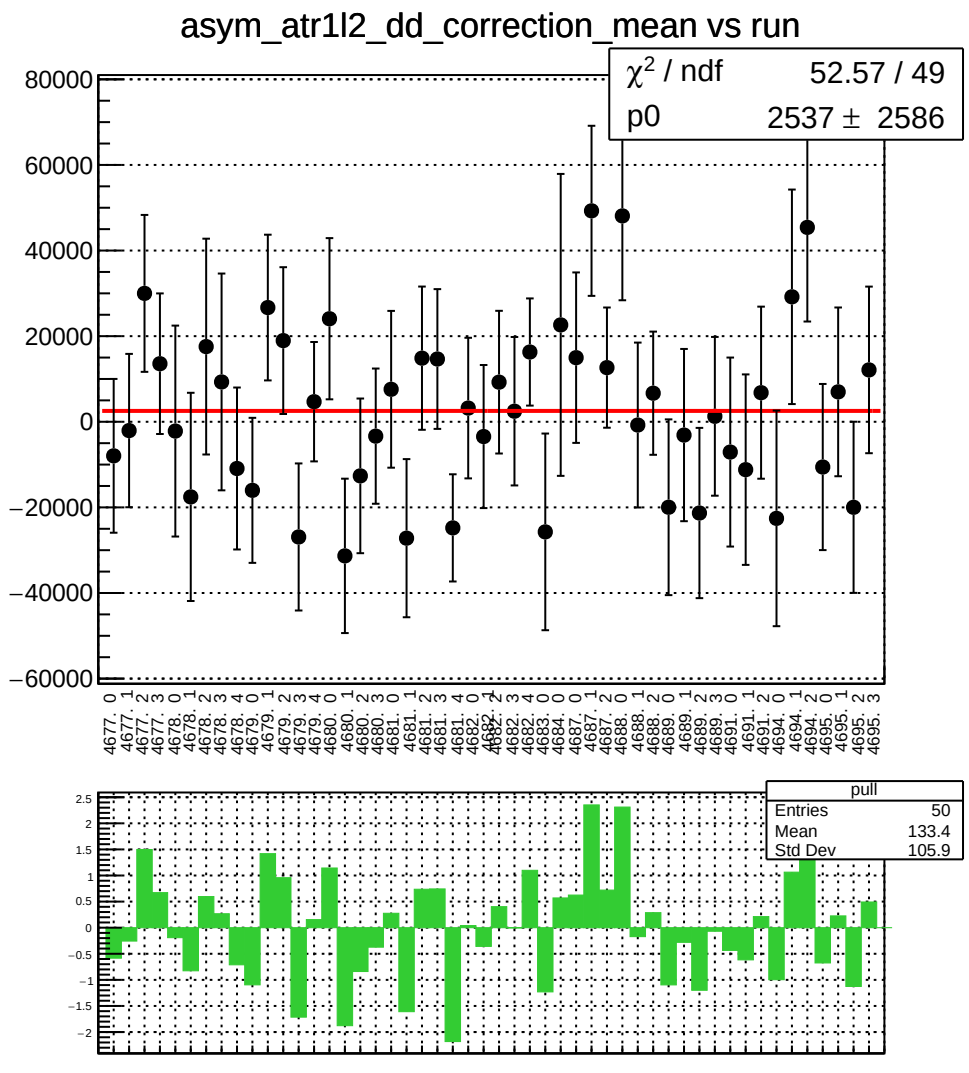
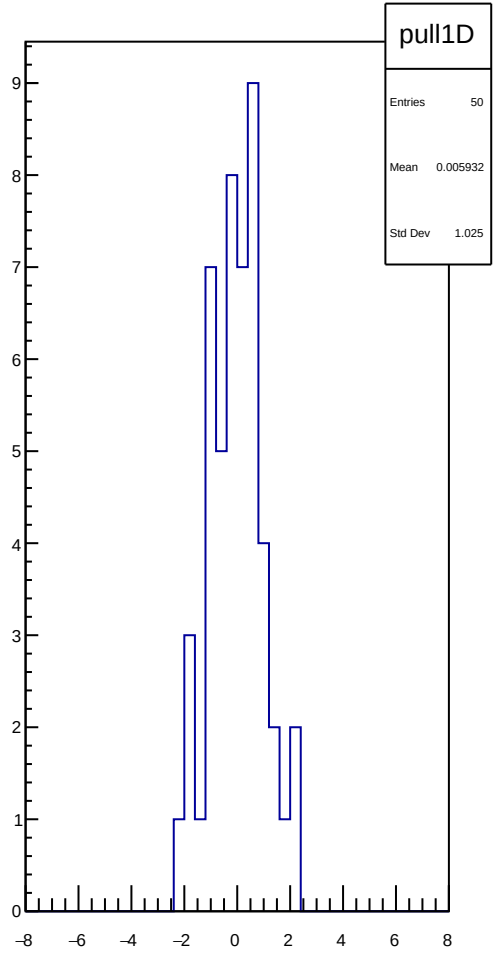
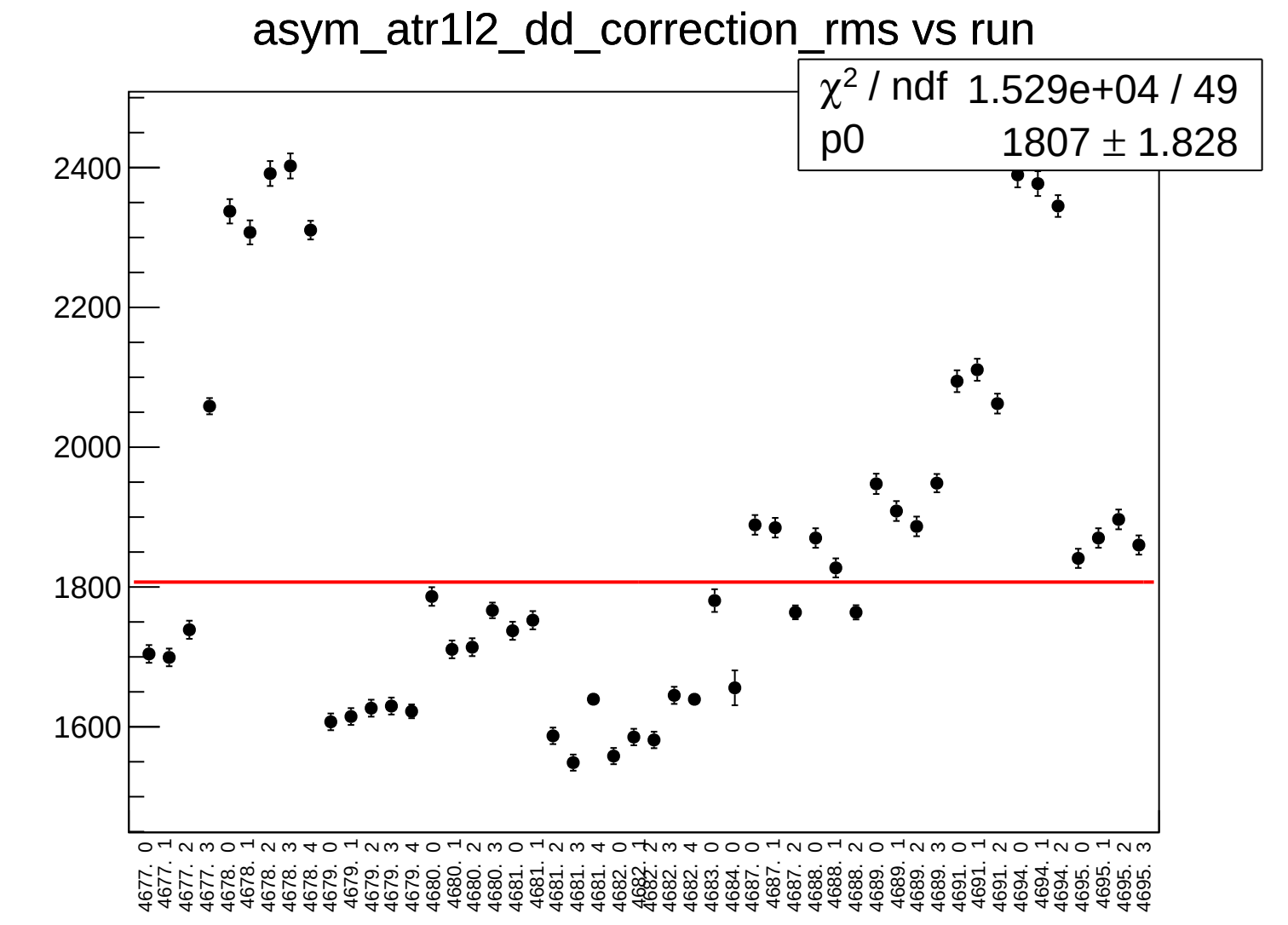
4695. 3


asym_atr1l2_dd_correction_mean vs run
χ² / ndf 52.57 / 49
p0 2537 ± 2586
pull
Entries 50
Mean 133.4
Std Dev 105.9


pull1D
Entries 50
Mean 0.005932
Std Dev 1.025


asym_atr1l2_dd_correction_rms vs run
χ² / ndf 1.529e+04 / 49
p0 1807 ± 1.828
2400
2200
2000
1800
1600
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
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4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
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4689. 3
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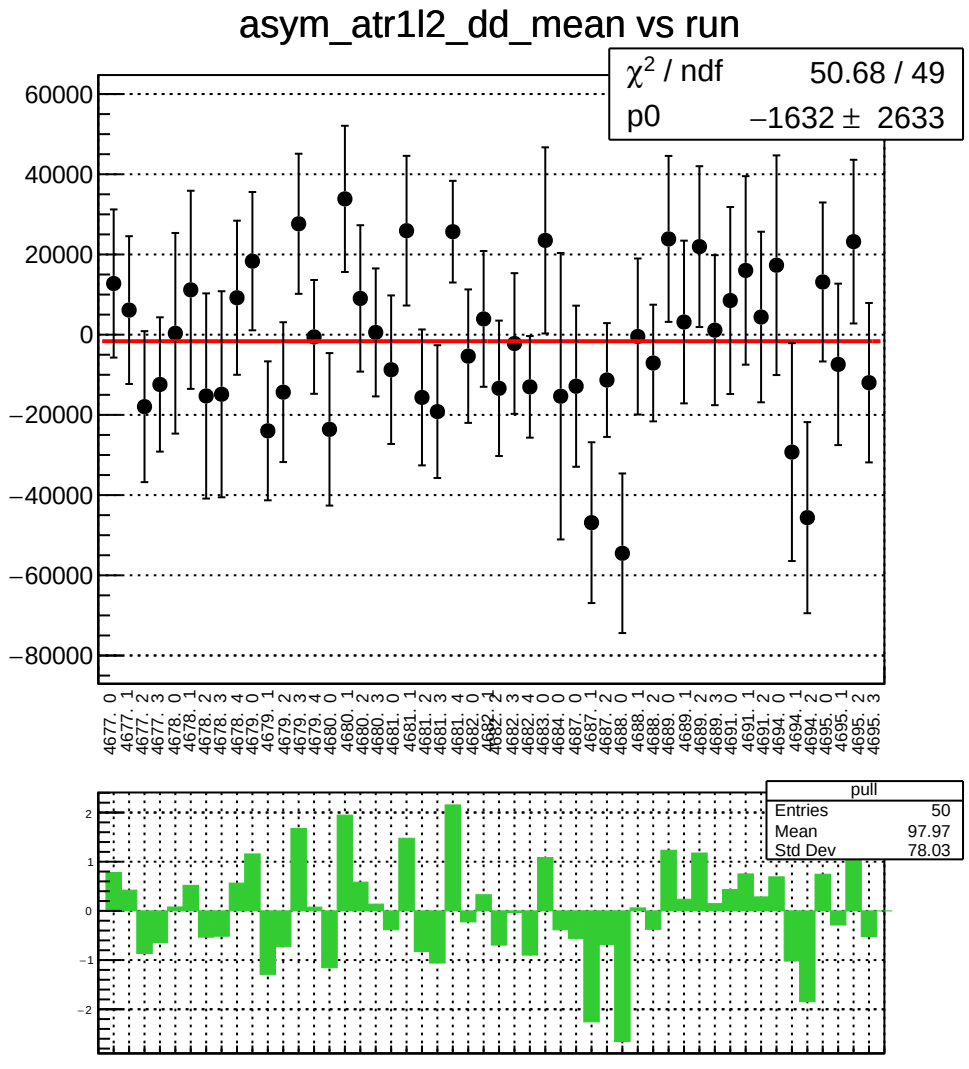
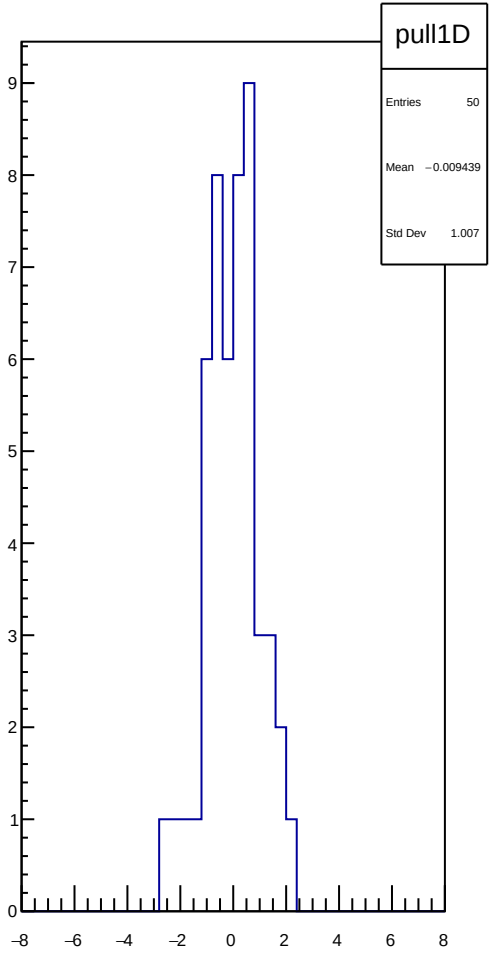
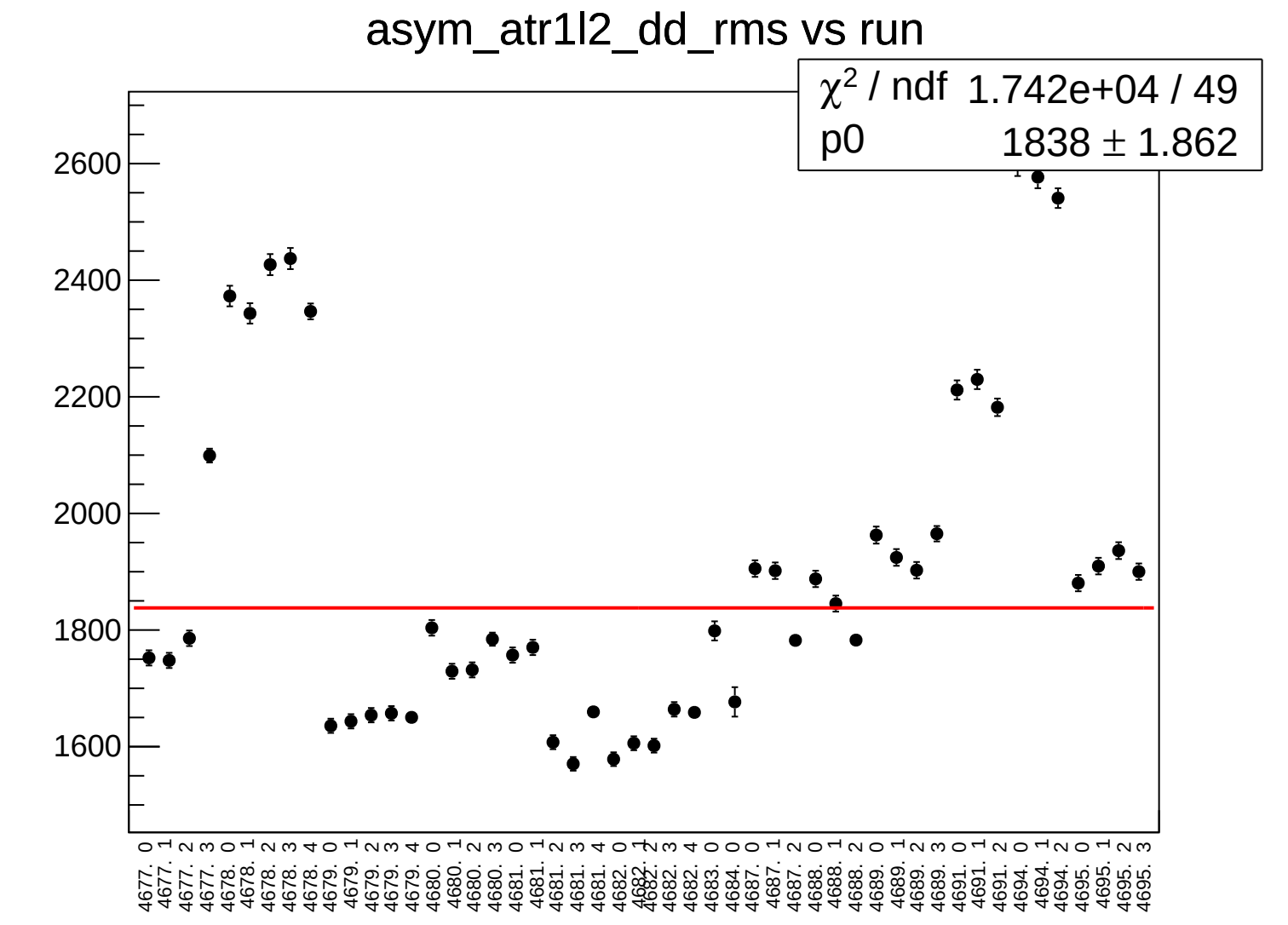
4695. 3


asym_atr1l2_dd_mean vs run
χ² / ndf 50.68 / 49
p0 −1632 ± 2633
pull
Entries 50
Mean 97.97
Std Dev 78.03


pull1D
Entries 50
Mean −0.009439
Std Dev 1.007


asym_atr1l2_dd_rms vs run
χ² / ndf 1.742e+04 / 49
p0 1838 ± 1.862
2600
2400
2200
2000
1800
1600
4677. 0
4677. 1
4677. 2
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4678. 0
4678. 1
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4678. 3
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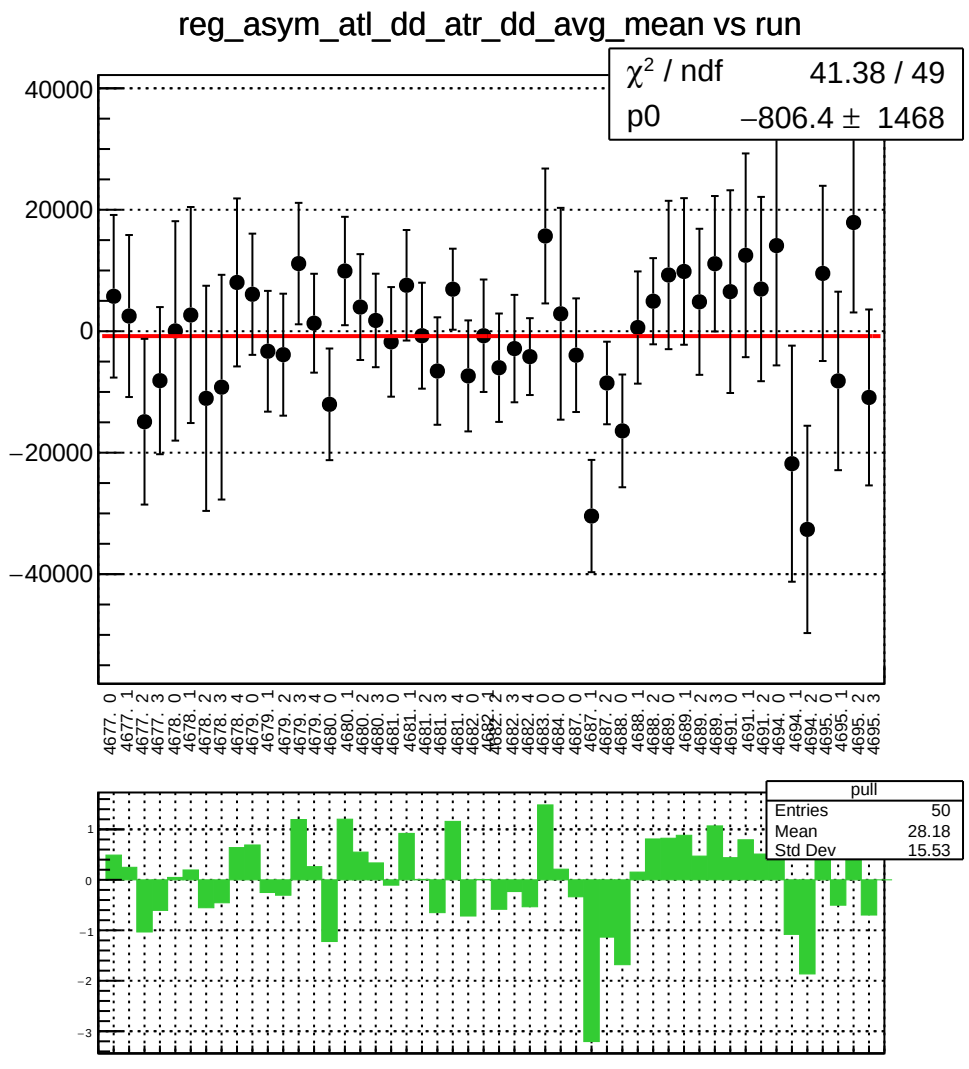
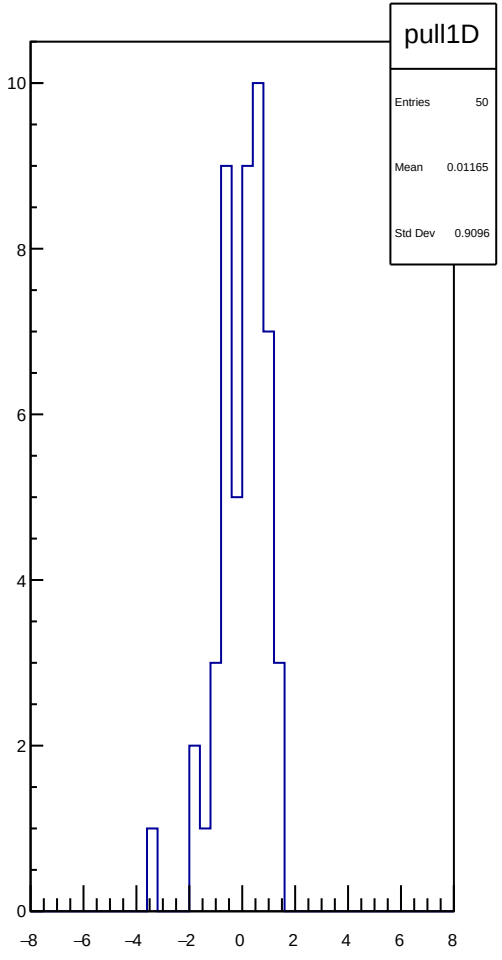
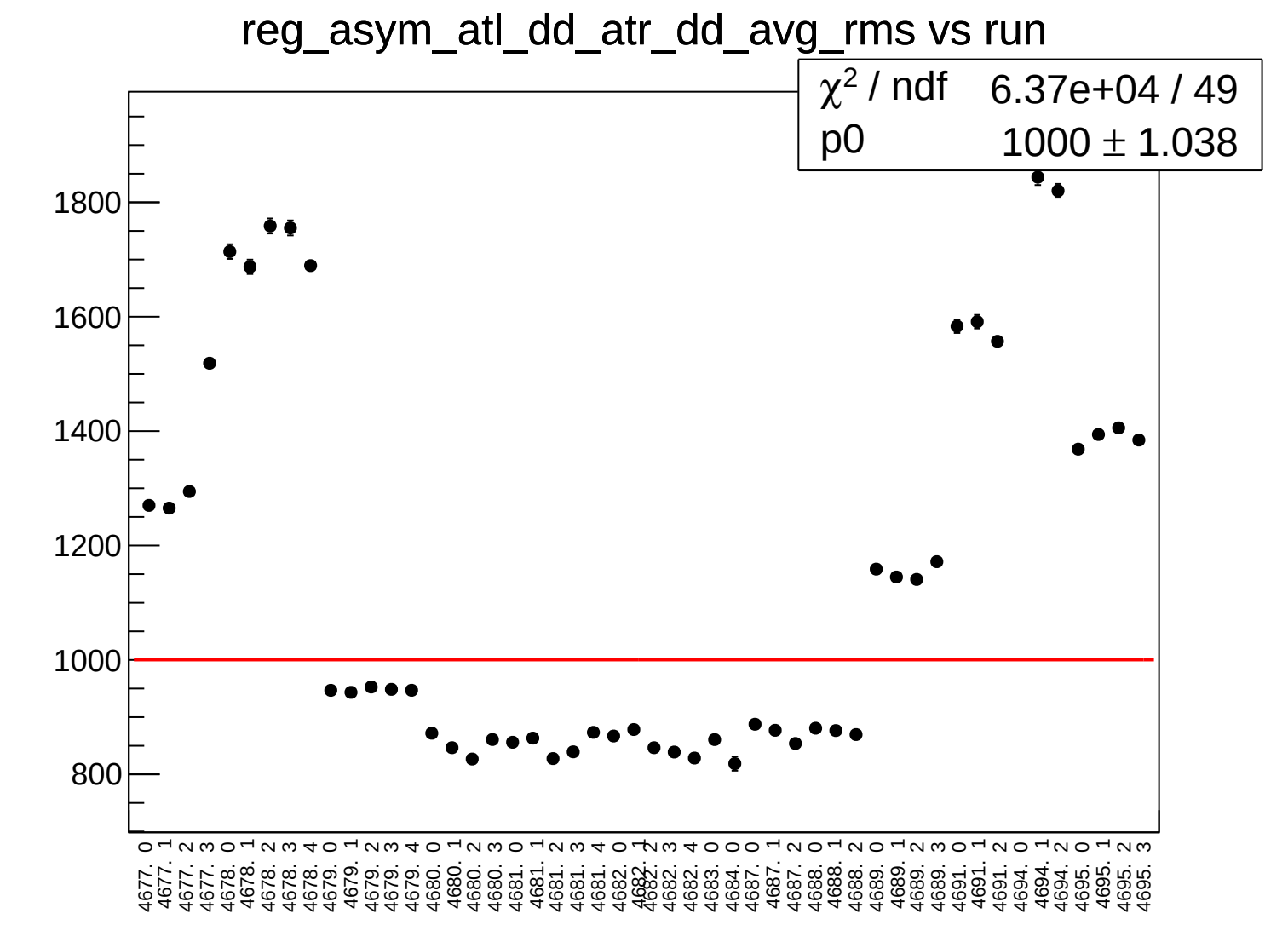
4695. 3


reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 41.38 / 49
p0 −806.4 ± 1468
40000
20000
0
−20000
−40000
pull
Entries 50
Mean 28.18
Std Dev 15.53
1
0
−1
−2
−3


pull1D
Entries 50
Mean 0.01165
Std Dev 0.9096
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 6.37e+04 / 49
p0 1000 ± 1.038
1800
1600
1400
1200
1000
800
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
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4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
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4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4694. 2
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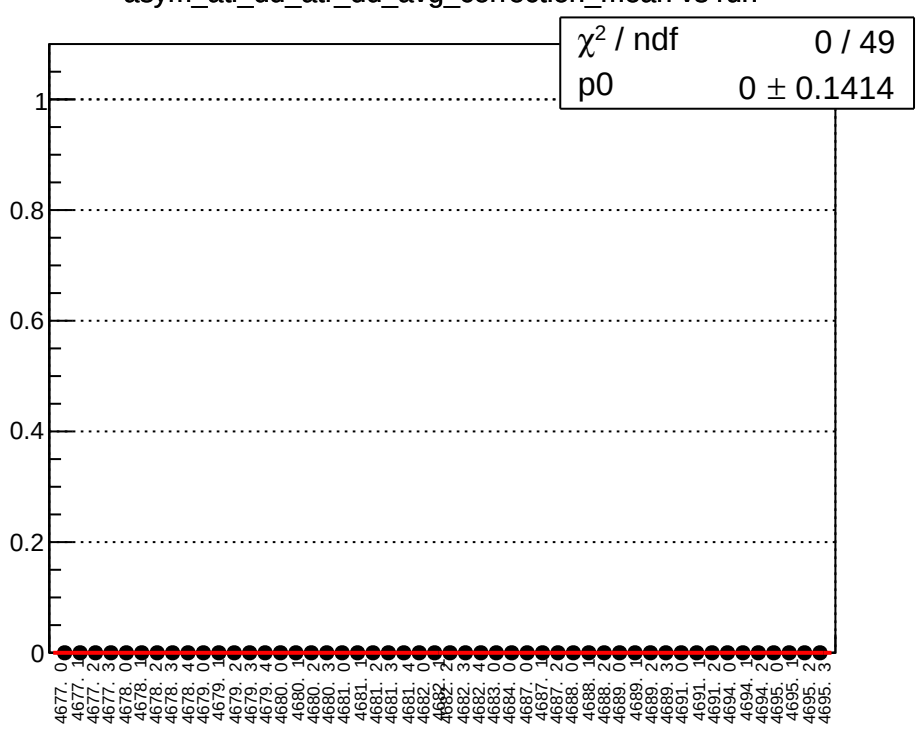
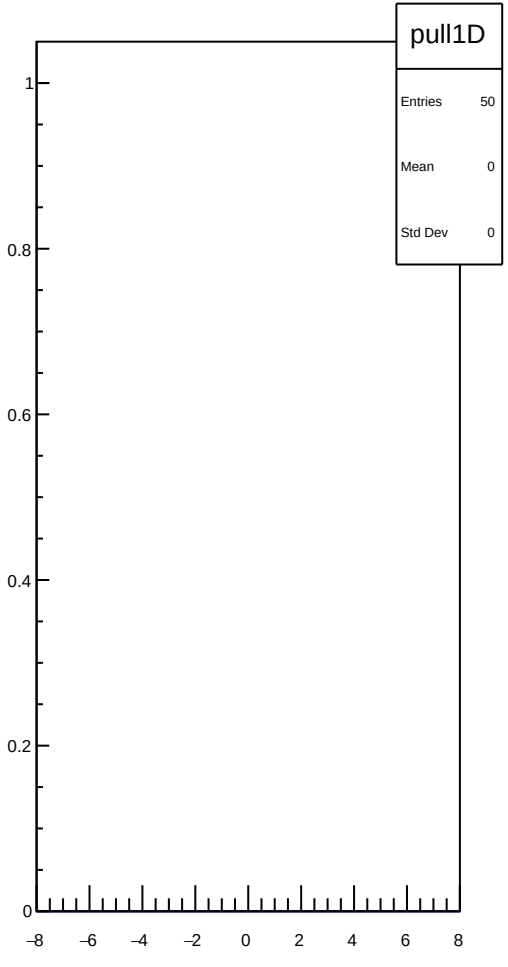
4695. 2
4695. 3


asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 50
Mean 0
Std Dev 0
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0.8
0.6
0.4
0.2
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–6
–4
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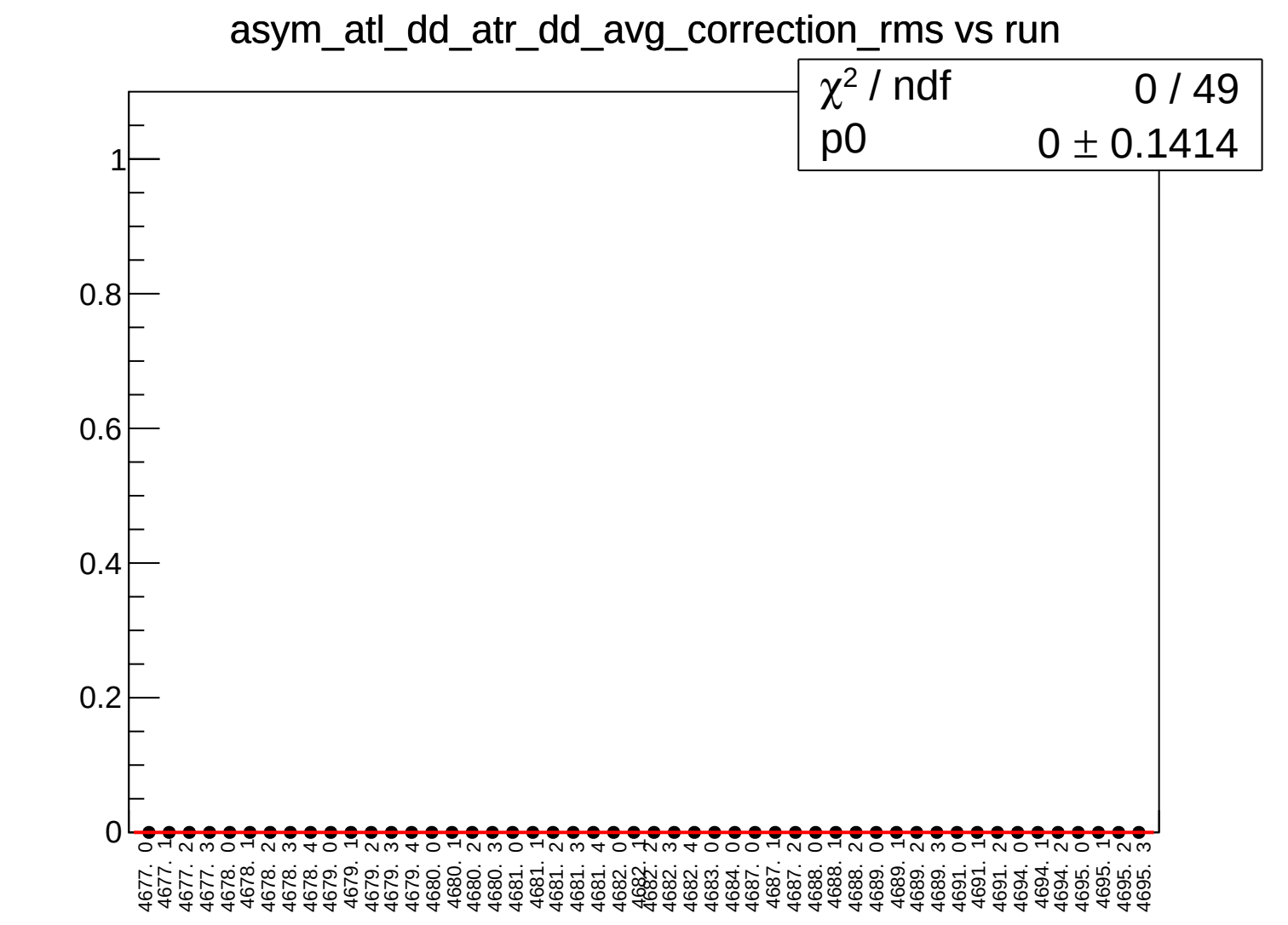
6
8


asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
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4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
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4689. 2
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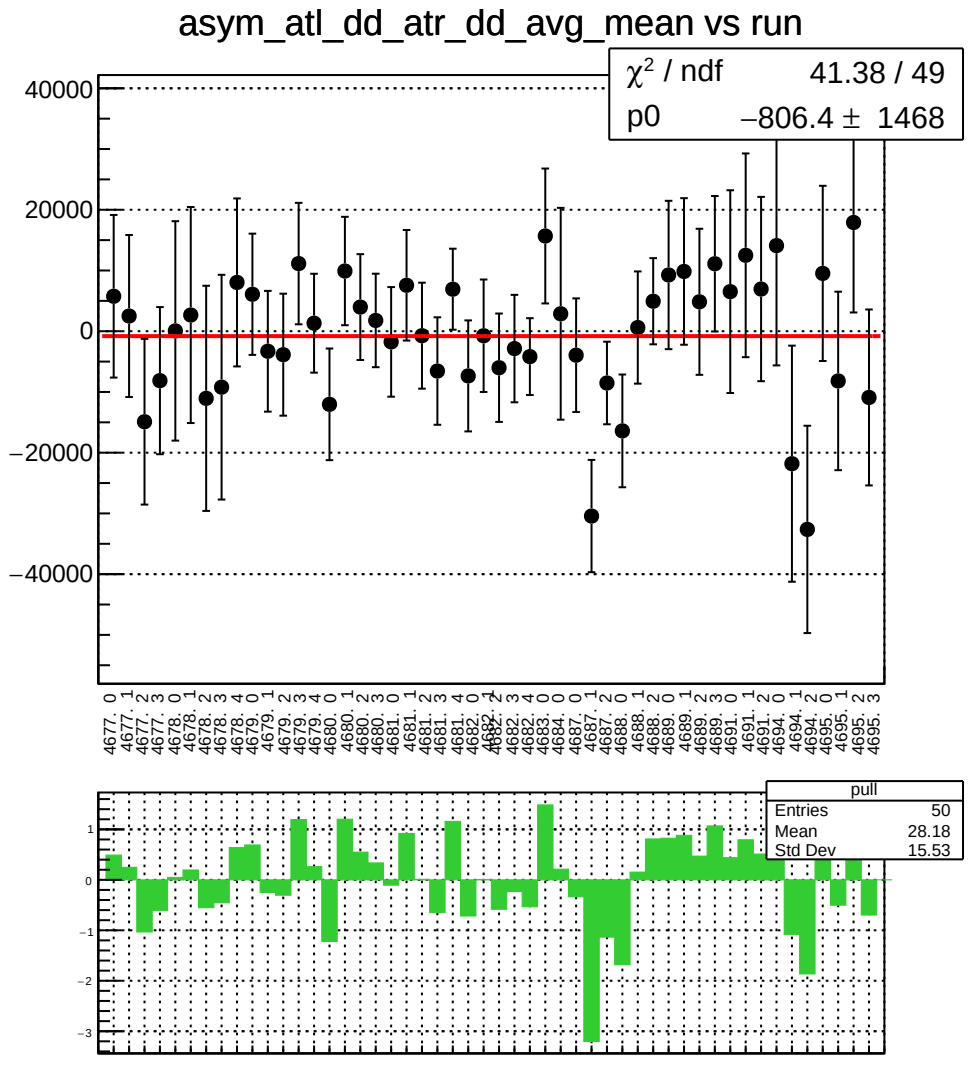
4695. 3


asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 41.38 / 49
p0 −806.4 ± 1468
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20000
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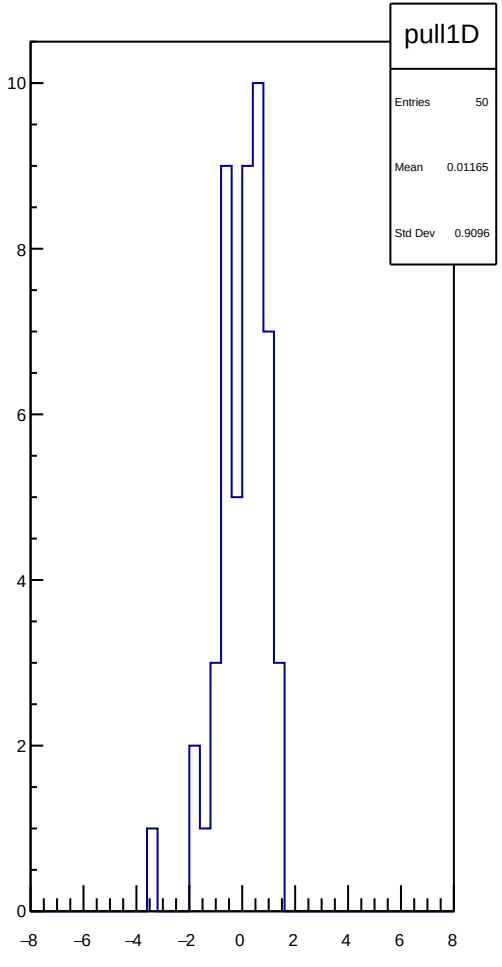
−20000
−40000
pull
Entries 50
Mean 28.18
Std Dev 15.53
1
0
−1
−2
−3


pull1D
Entries 50
Mean 0.01165
Std Dev 0.9096
10
8
6
4
2
0
−8
−6
−4
−2
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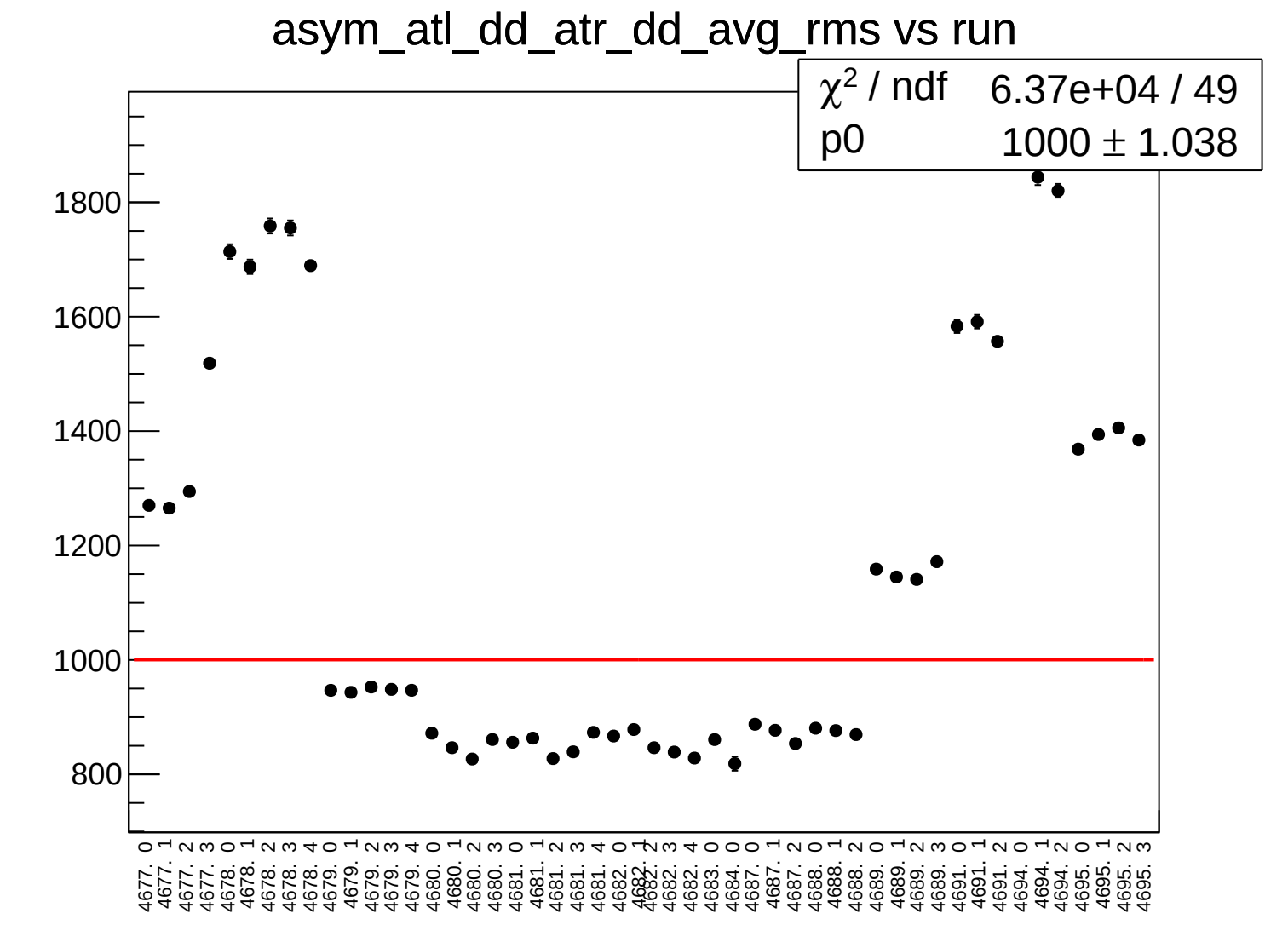
4
6
8


asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 6.37e+04 / 49
p0 1000 ± 1.038
1800
1600
1400
1200
1000
800
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
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4679. 4
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4680. 3
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4681. 3
4681. 4
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4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
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4688. 2
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4689. 3
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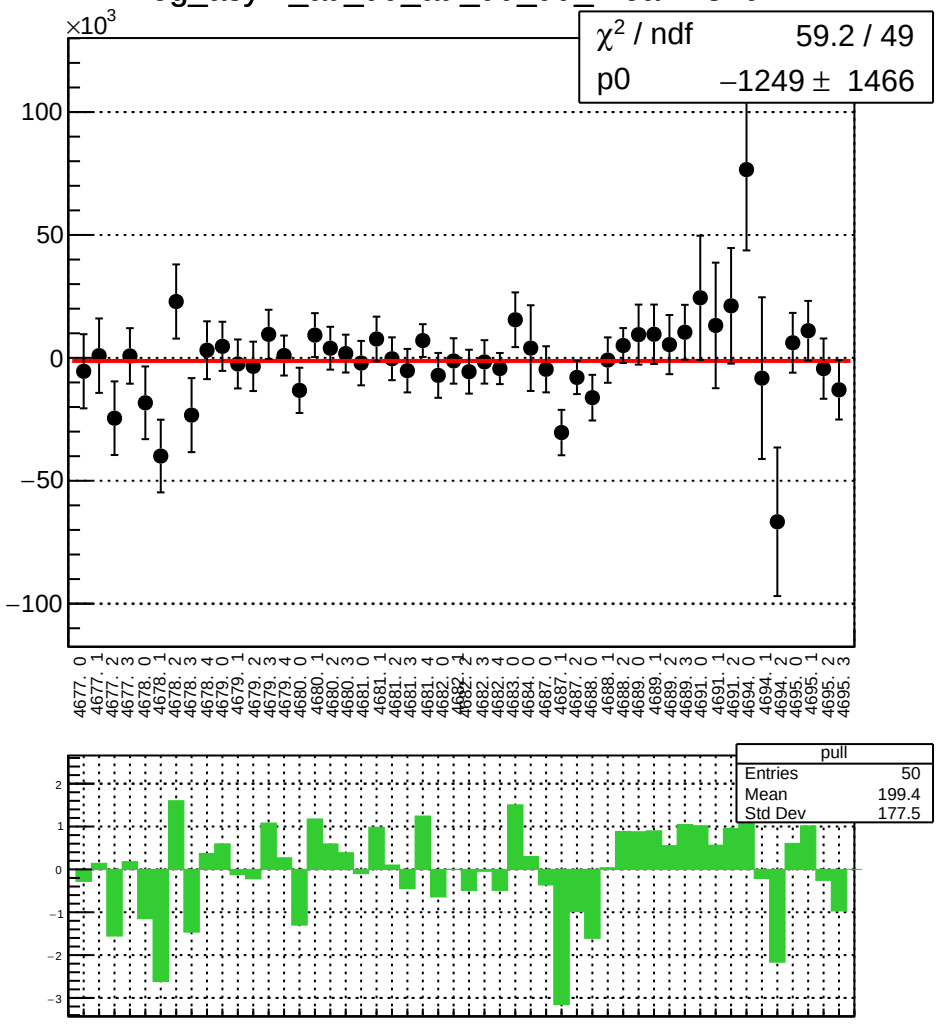
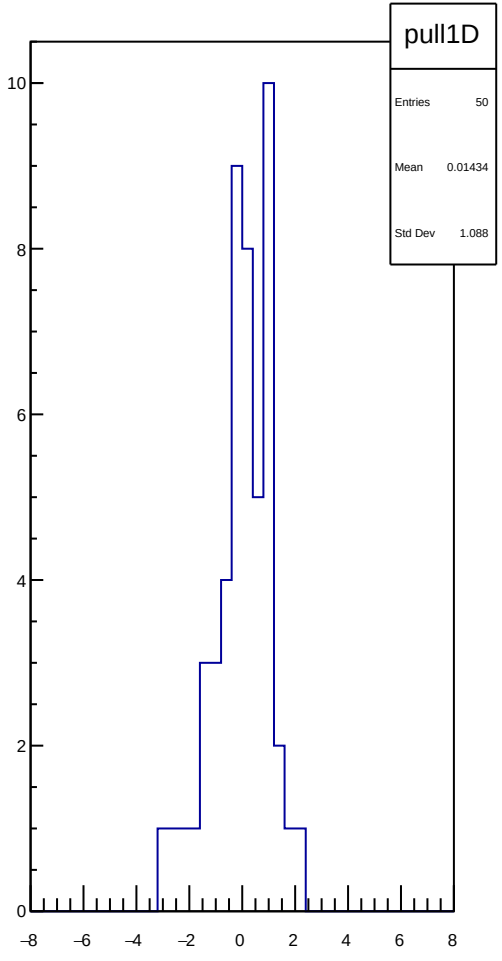
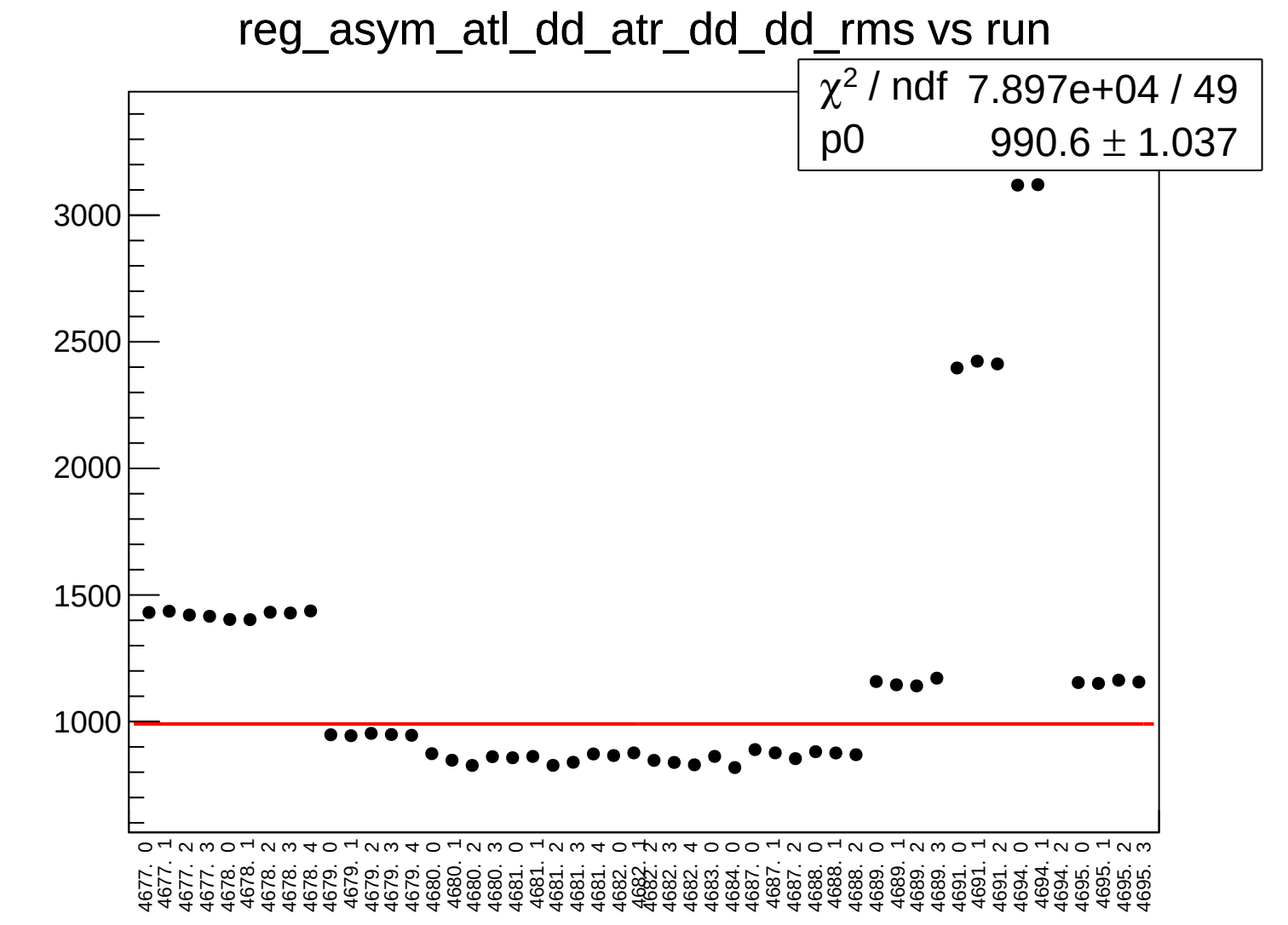
4695. 2
4695. 3


reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 59.2 / 49
p0 −1249 ± 1466
×10³
pull
Entries 50
Mean 199.4
Std Dev 177.5


pull1D
Entries 50
Mean 0.01434
Std Dev 1.088


reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 7.897e+04 / 49
p0 990.6 ± 1.037
3000
2500
2000
1500
1000
4677. 0
4677. 1
4677. 2
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4679. 0
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4679. 2
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4679. 4
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4680. 2
4680. 3
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4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
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4688. 0
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4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4695. 0
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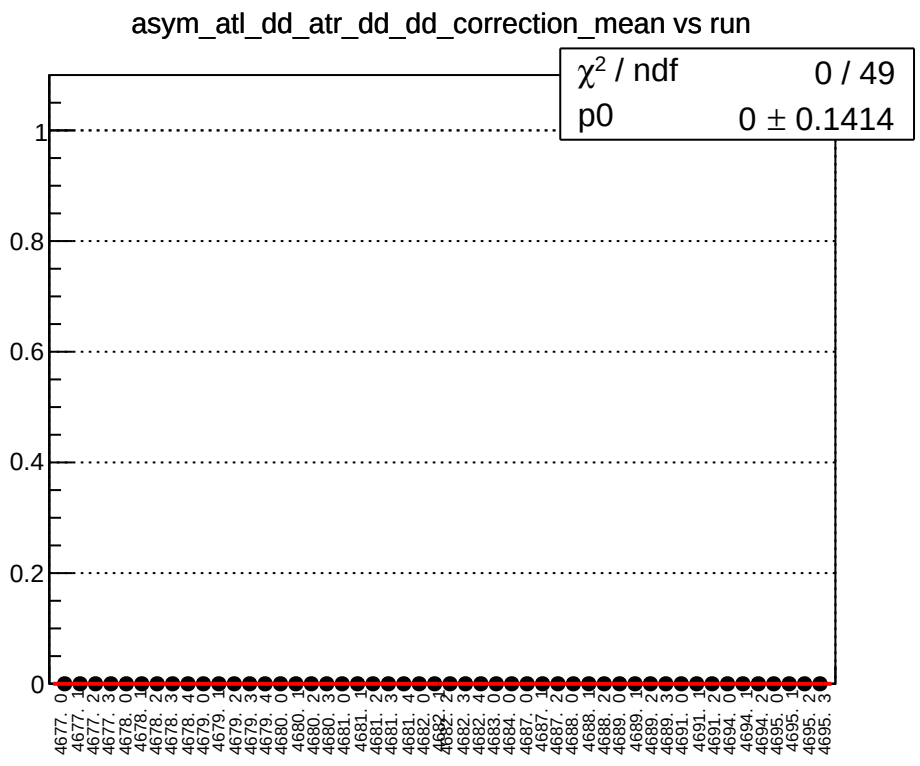
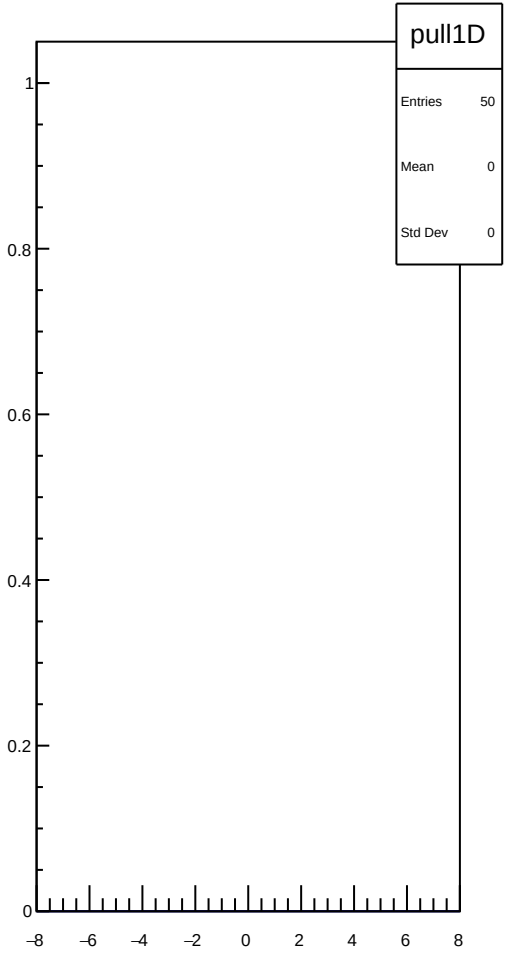
4695. 3


asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 50
Mean 0
Std Dev 0
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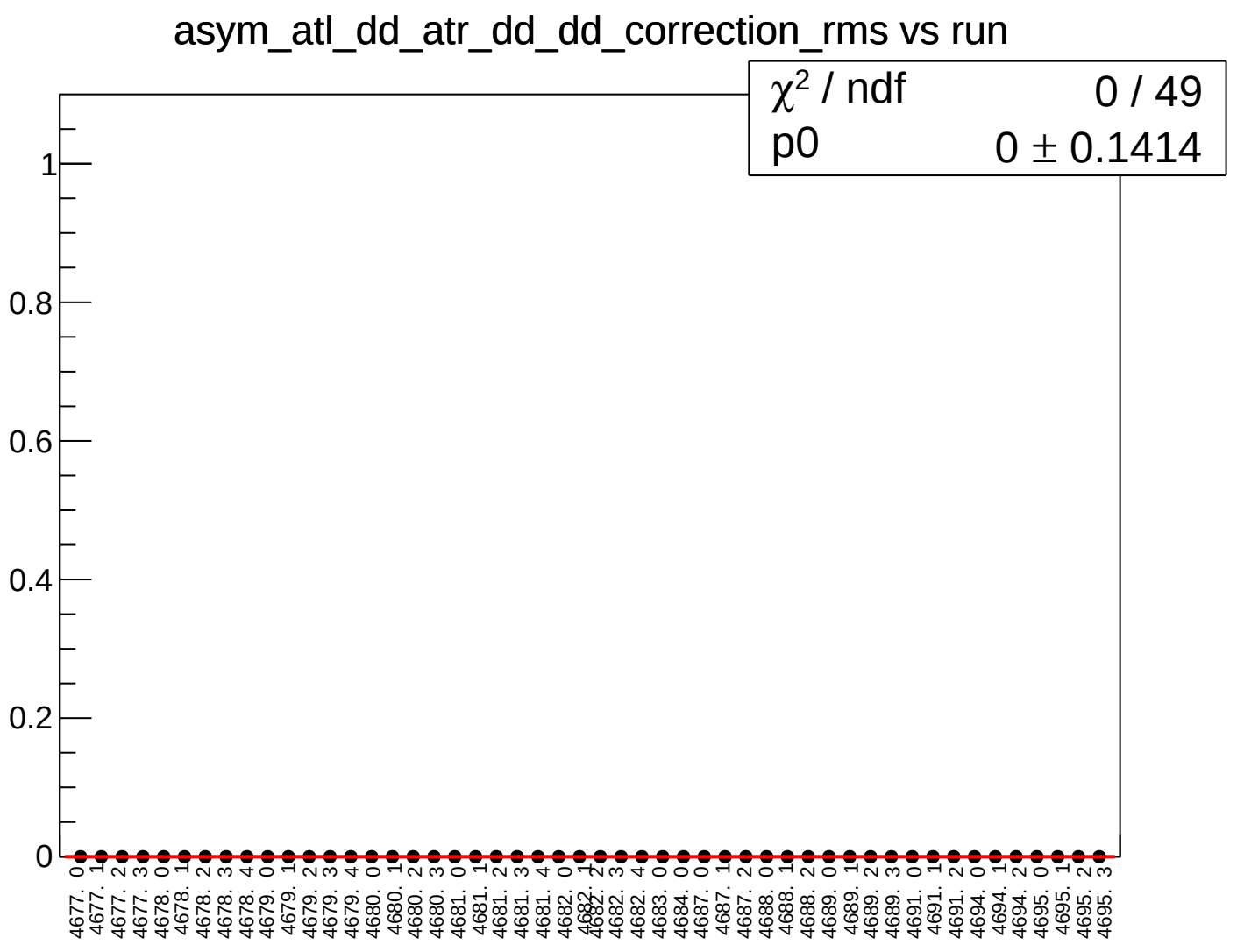
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
4677. 0
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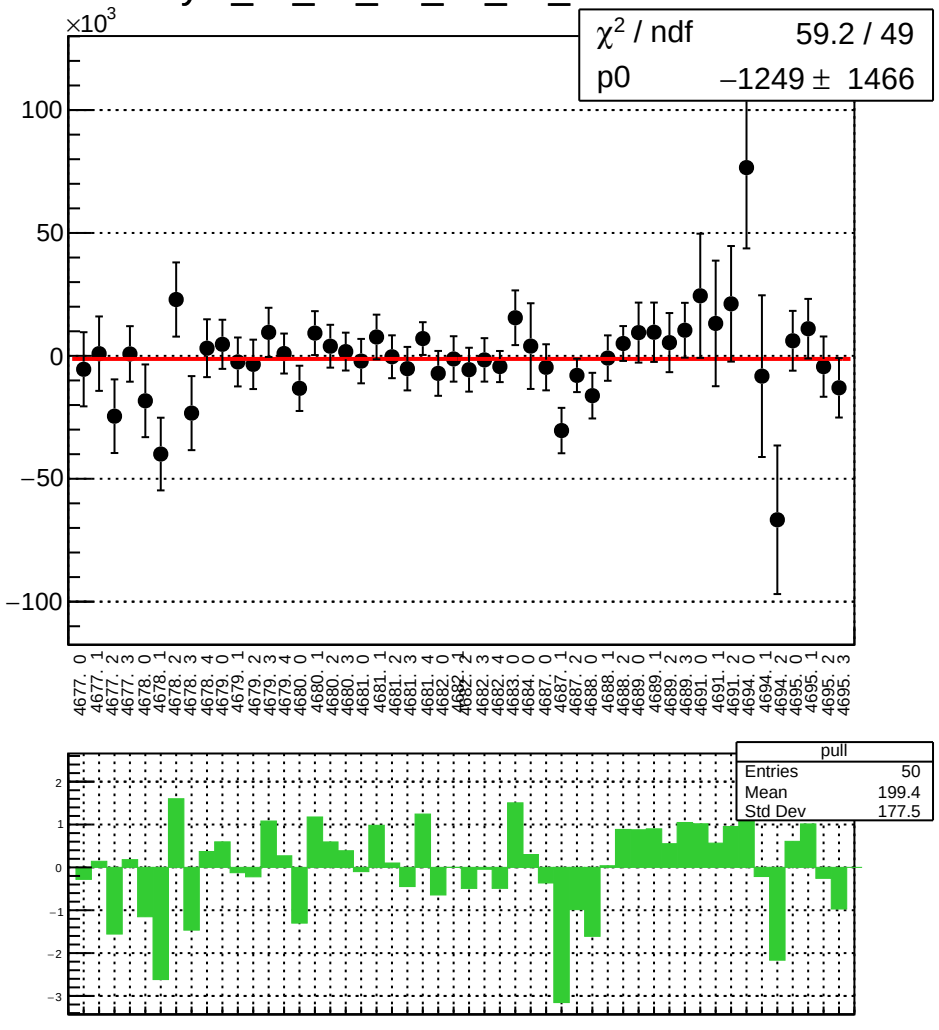
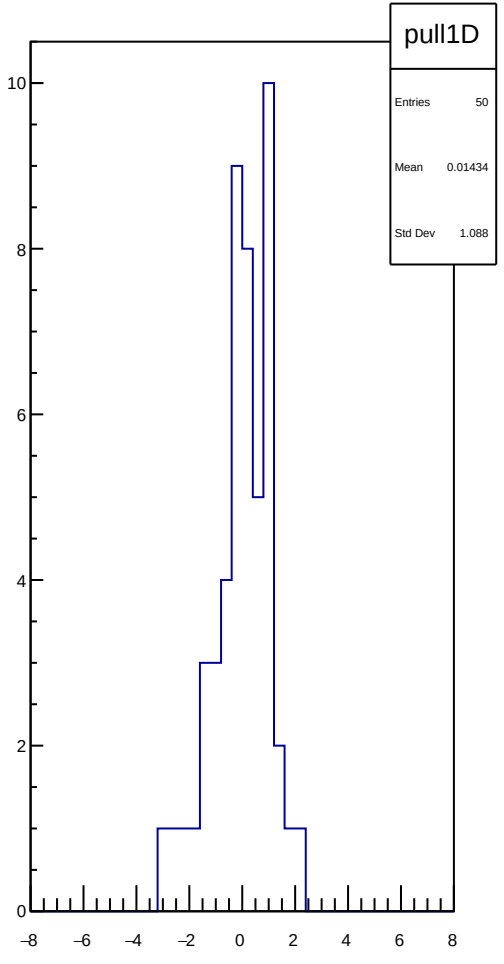
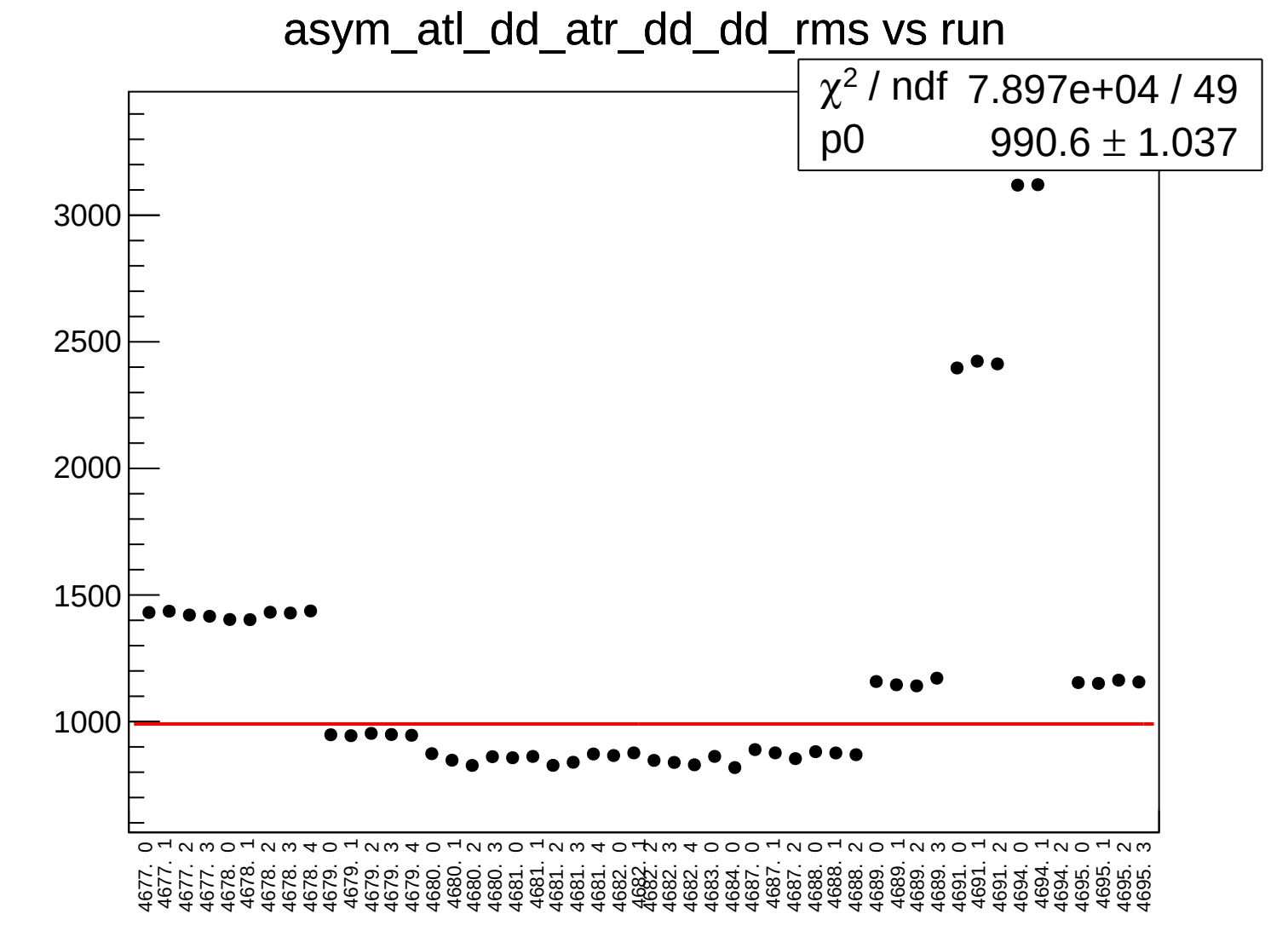
4695. 3


asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 59.2 / 49
p0 −1249 ± 1466
×10³
pull
Entries 50
Mean 199.4
Std Dev 177.5


pull1D
Entries 50
Mean 0.01434
Std Dev 1.088


asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 7.897e+04 / 49
p0 990.6 ± 1.037
3000
2500
2000
1500
1000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
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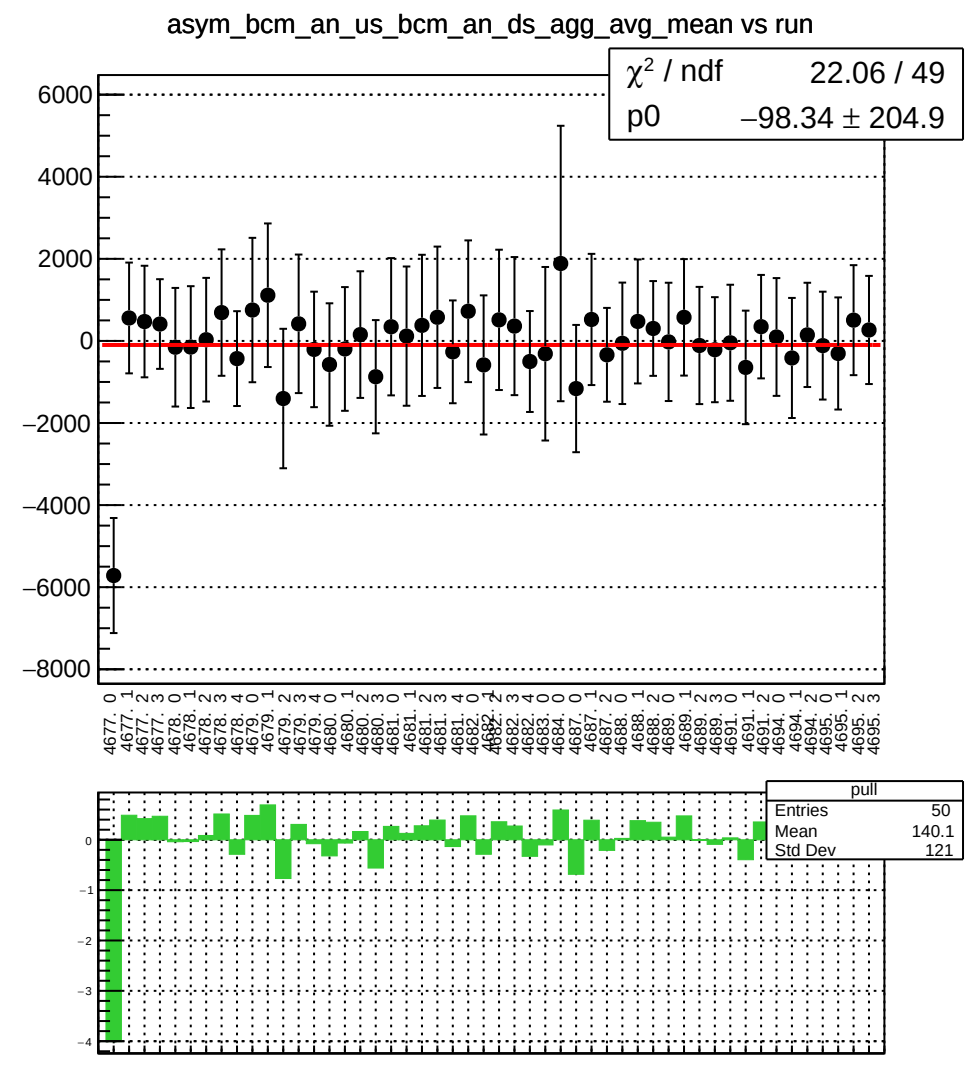
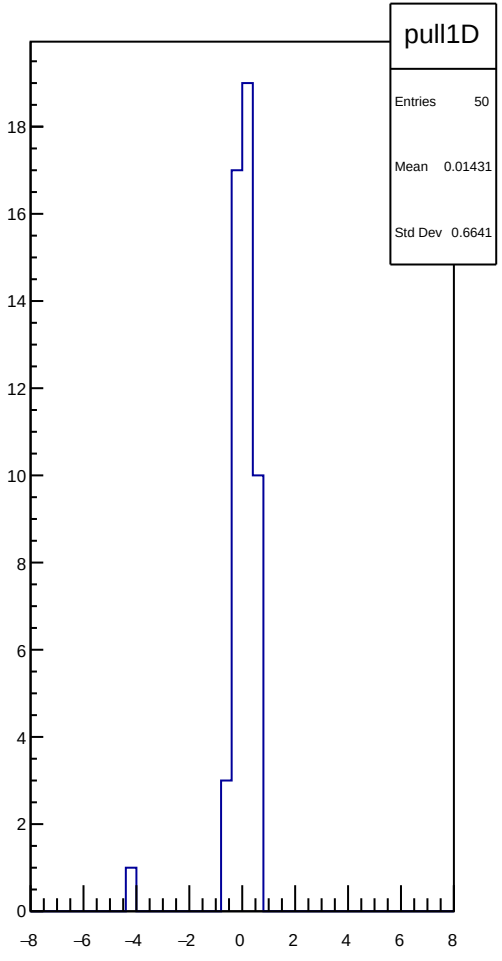
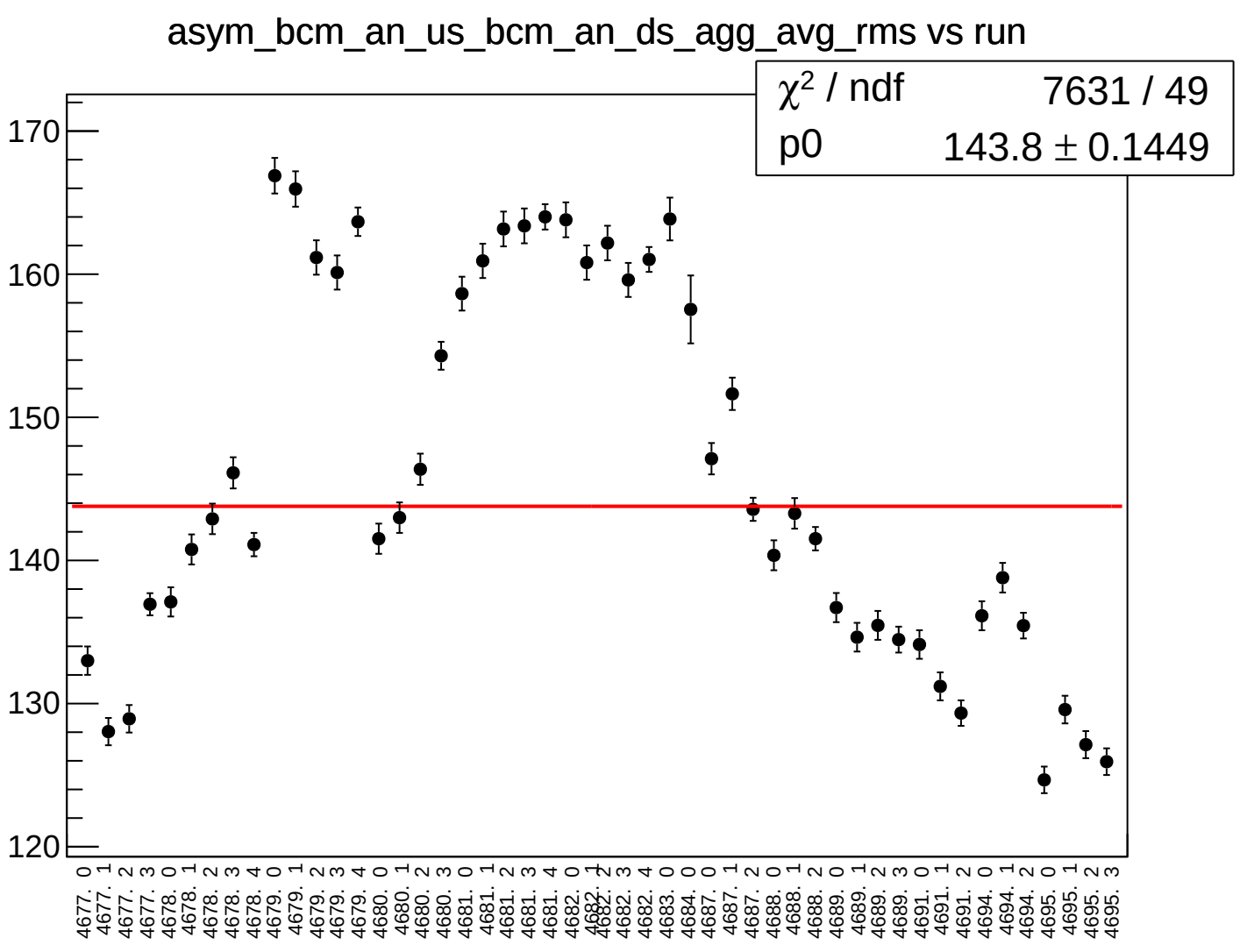

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 22.06 / 49
p0 −98.34 ± 204.9
pull
Entries 50
Mean 140.1
Std Dev 121


pull1D
Entries 50
Mean 0.01431
Std Dev 0.6641


asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7631 / 49
p0 143.8 ± 0.1449
170
160
150
140
130
120
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
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4678. 3
4678. 4
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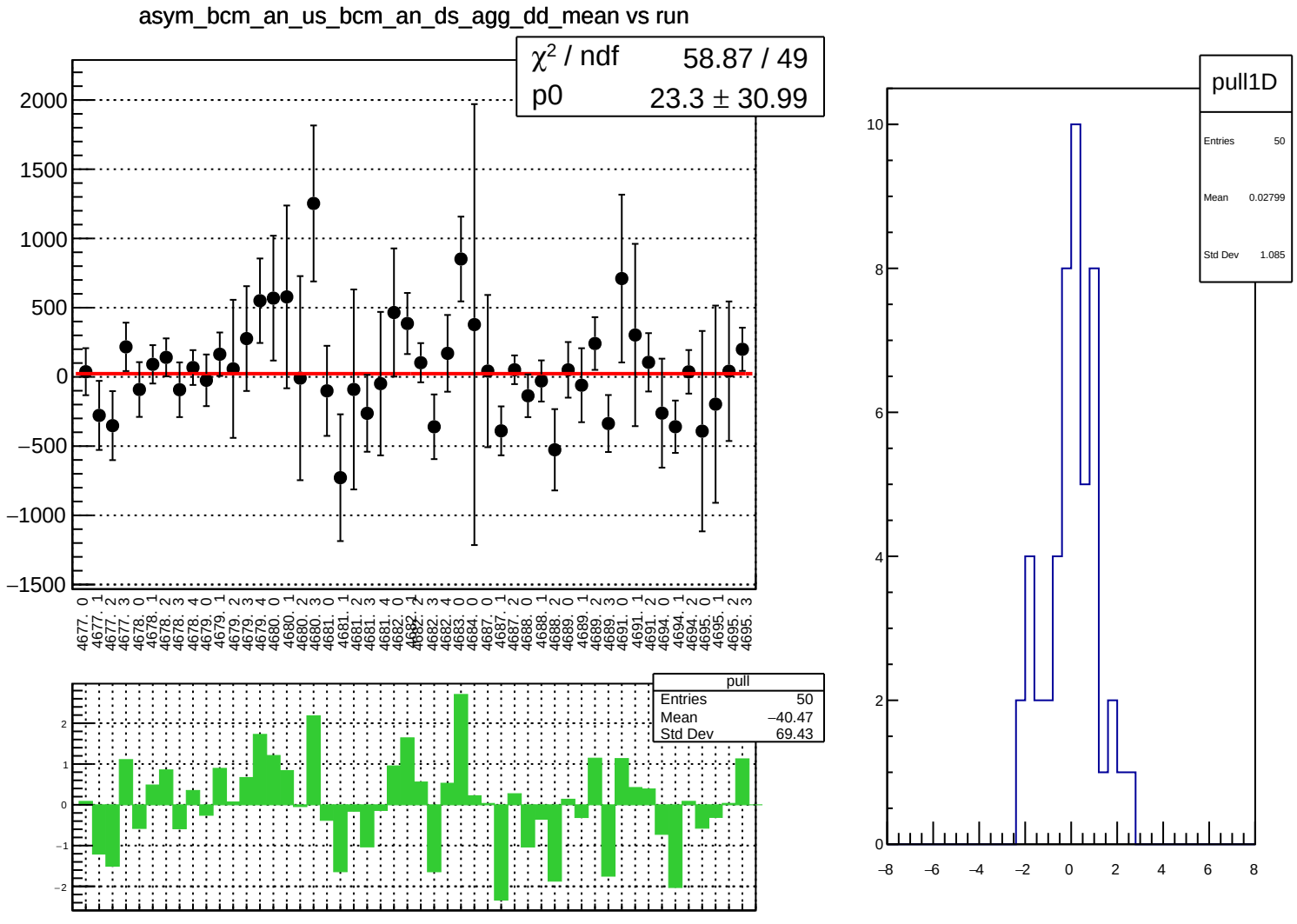
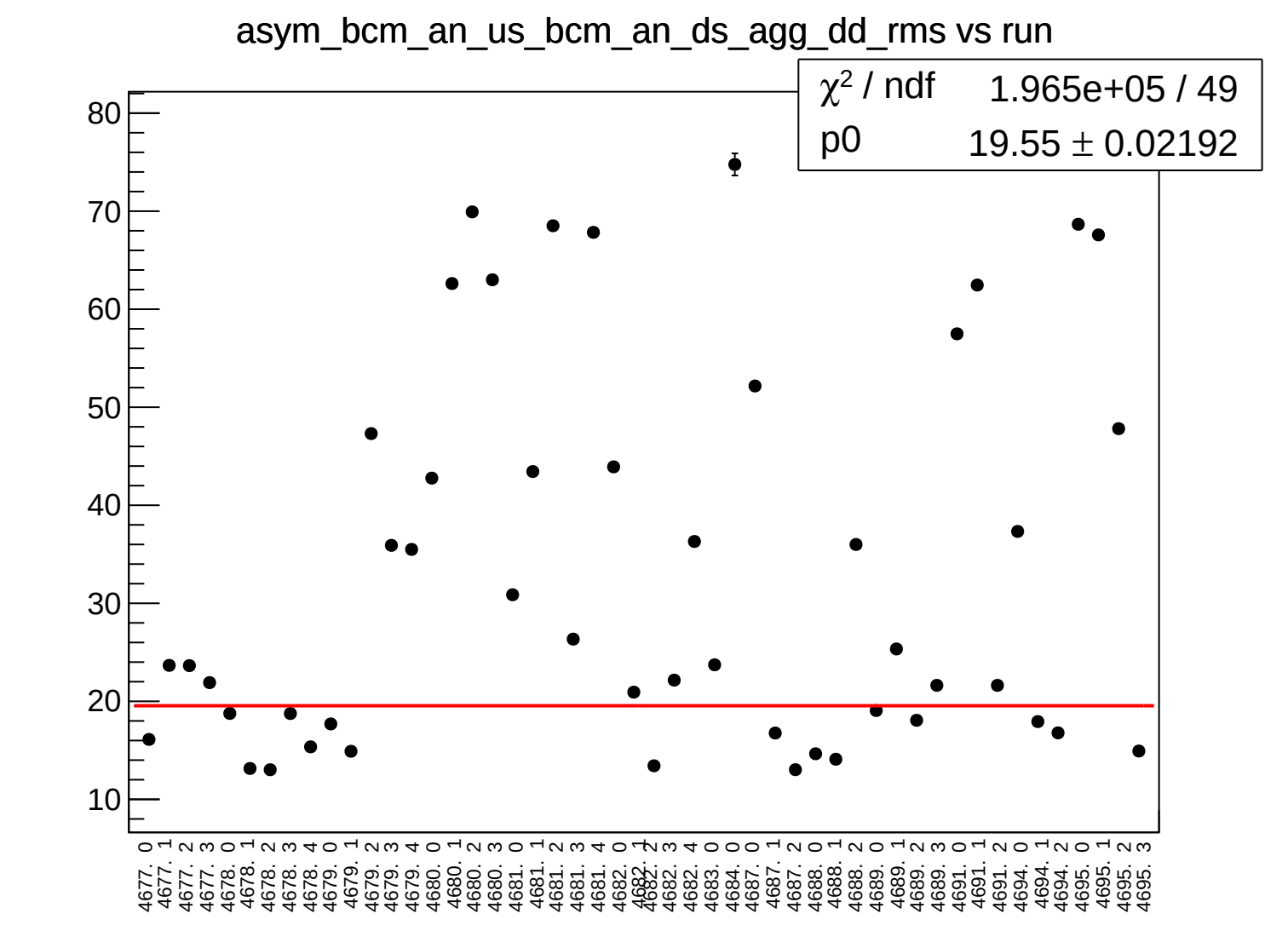

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 58.87 / 49
p0 23.3 ± 30.99
pull
Entries 50
Mean −40.47
Std Dev 69.43
pull1D
Entries 50
Mean 0.02799
Std Dev 1.085


asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.965e+05 / 49
p0 19.55 ± 0.02192
80
70
60
50
40
30
20
10
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
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4681. 4
4682. 0
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4682. 2
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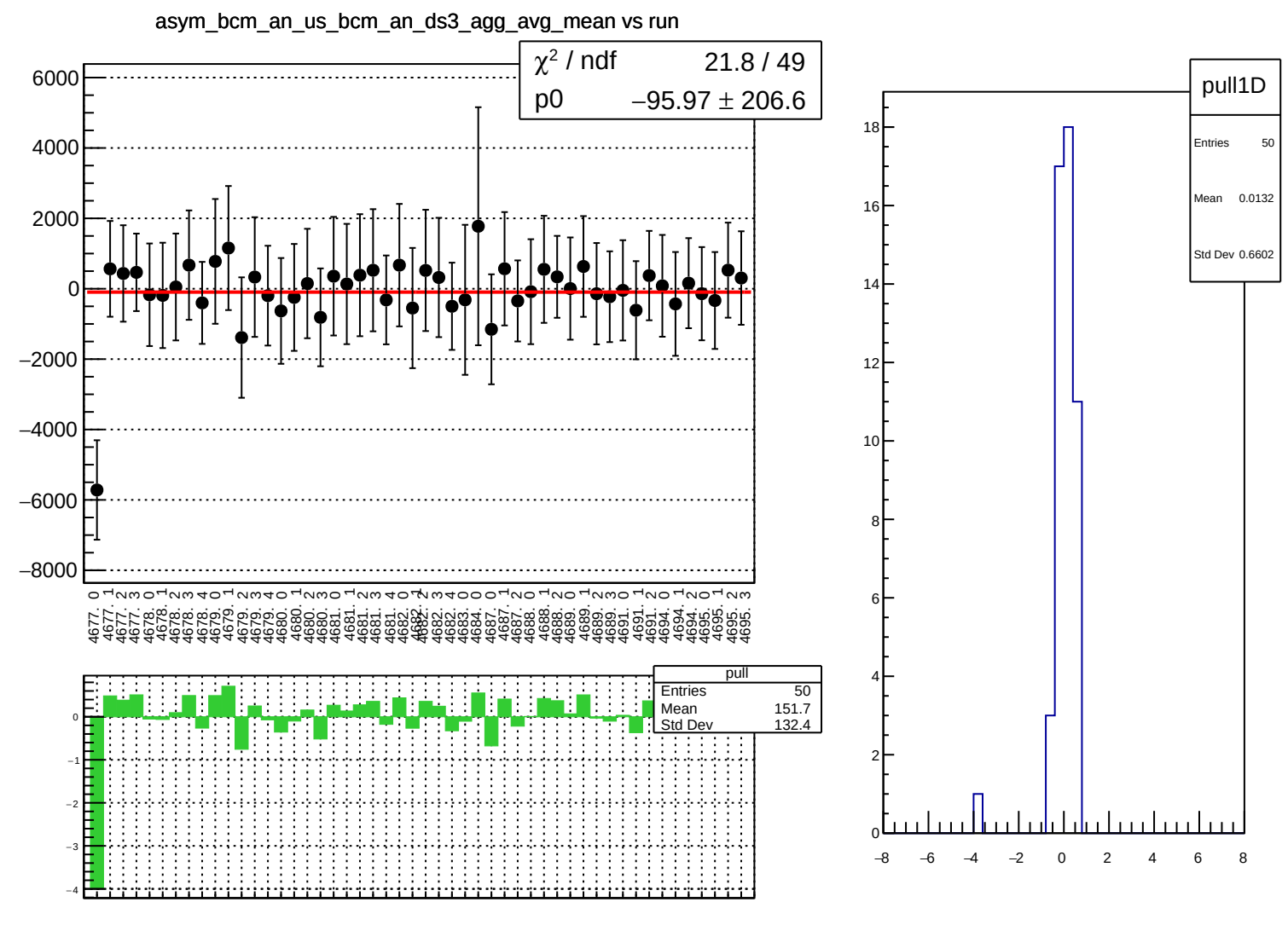
asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 21.8 / 49
p0 −95.97 ± 206.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
4677. 0
4677. 1
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4678. 3
4678. 4
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4681. 0
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4682. 0
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4682. 2
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4682. 4
4683. 0
4684. 0
4687. 0
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4694. 1
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4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 151.7
Std Dev 132.4
0
−1
−2
−3
−4
pull1D
Entries 50
Mean 0.0132
Std Dev 0.6602
18
16
14
12
10
8
6
4
2
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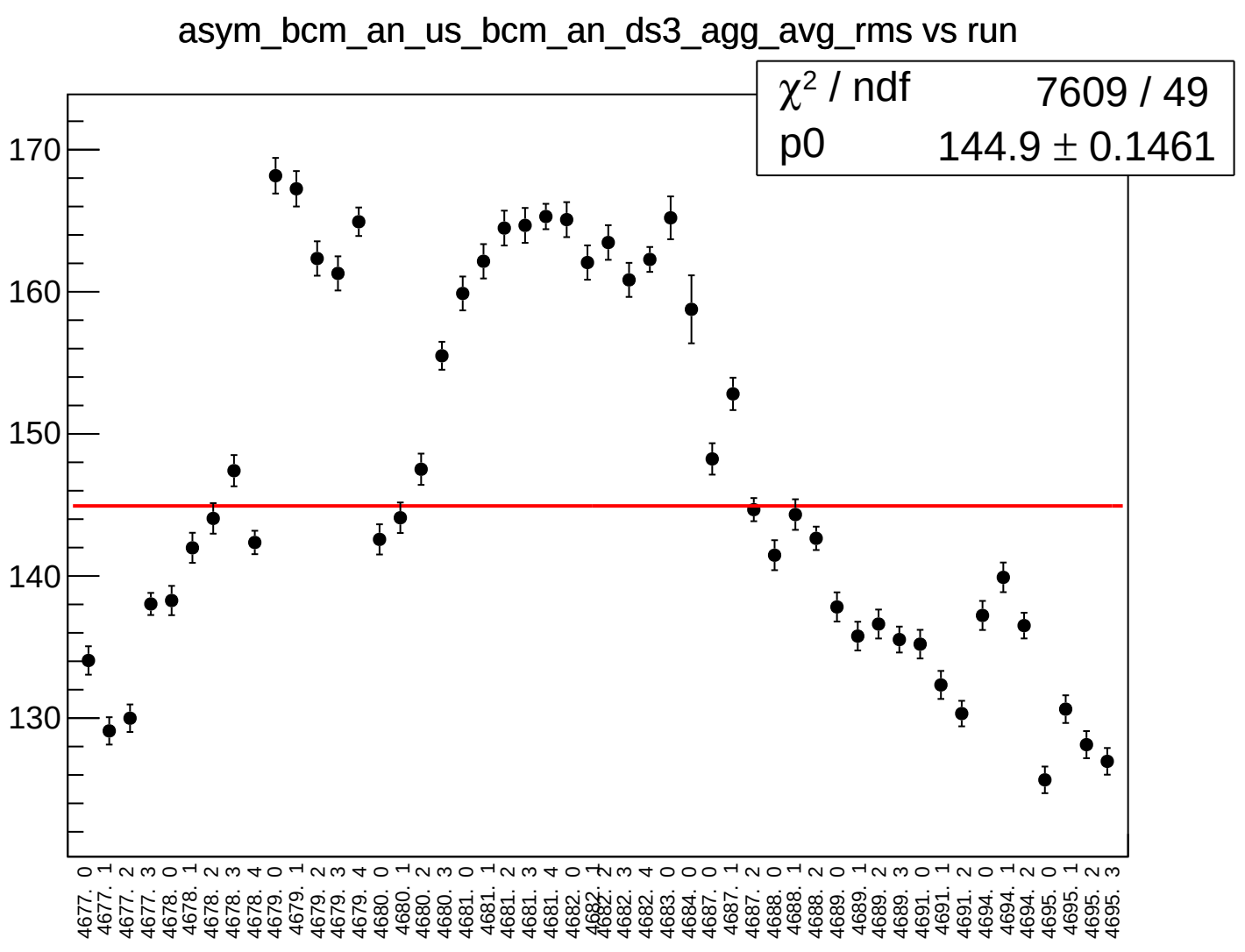
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 7609 / 49
p0 144.9 ± 0.1461
170
160
150
140
130
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4689. 1
4689. 2
4689. 3
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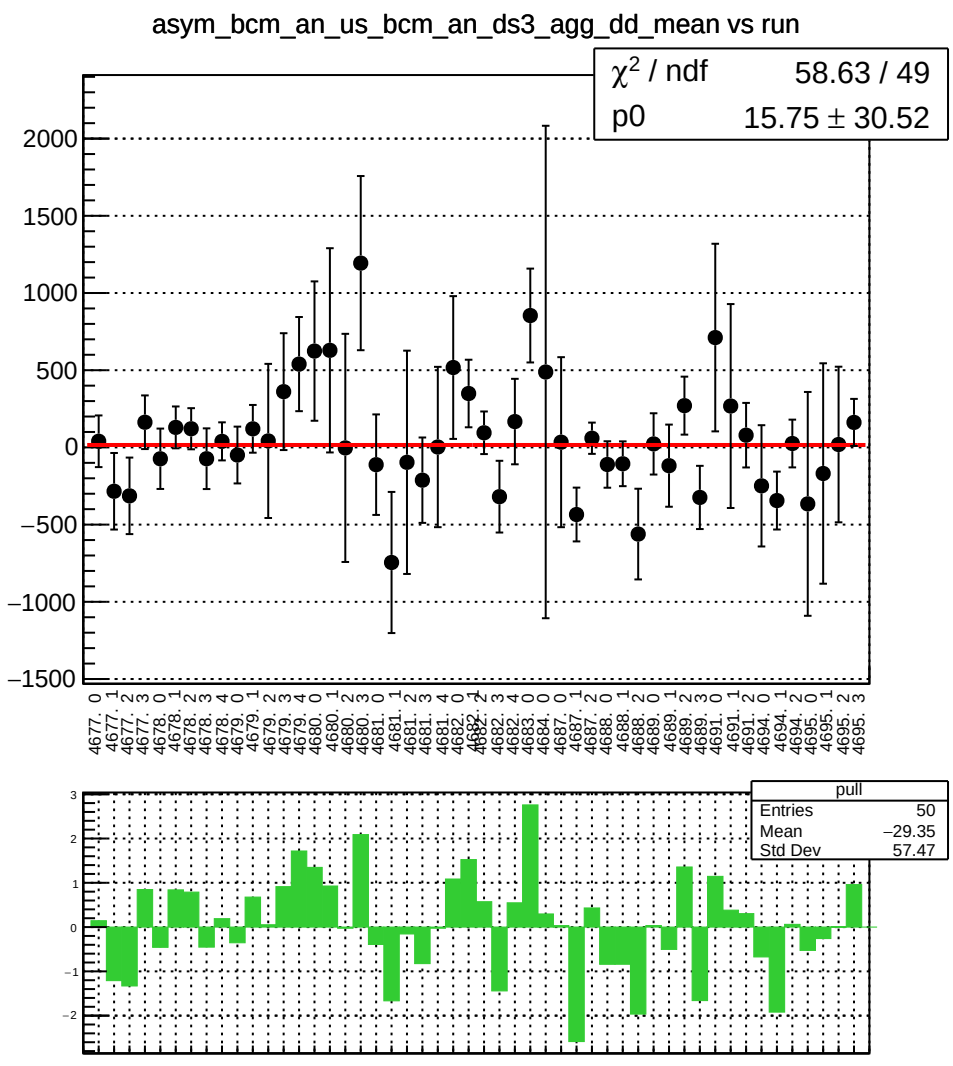
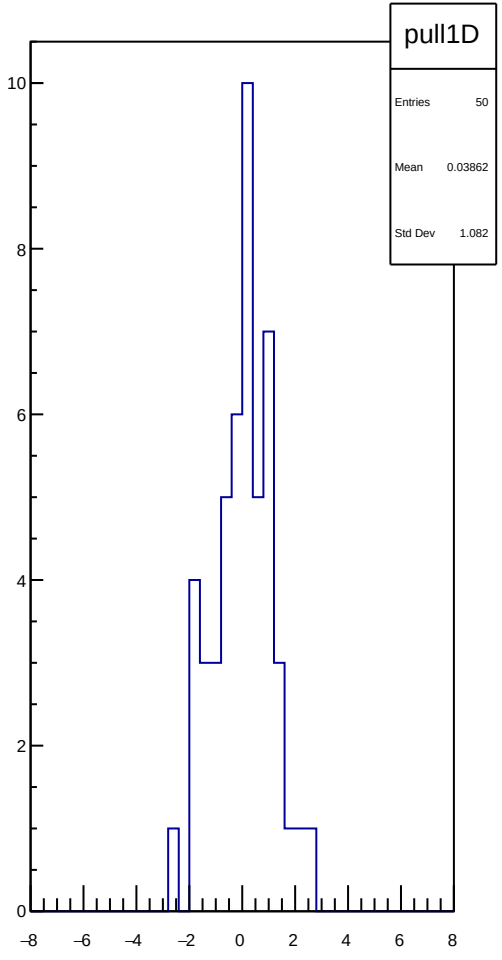
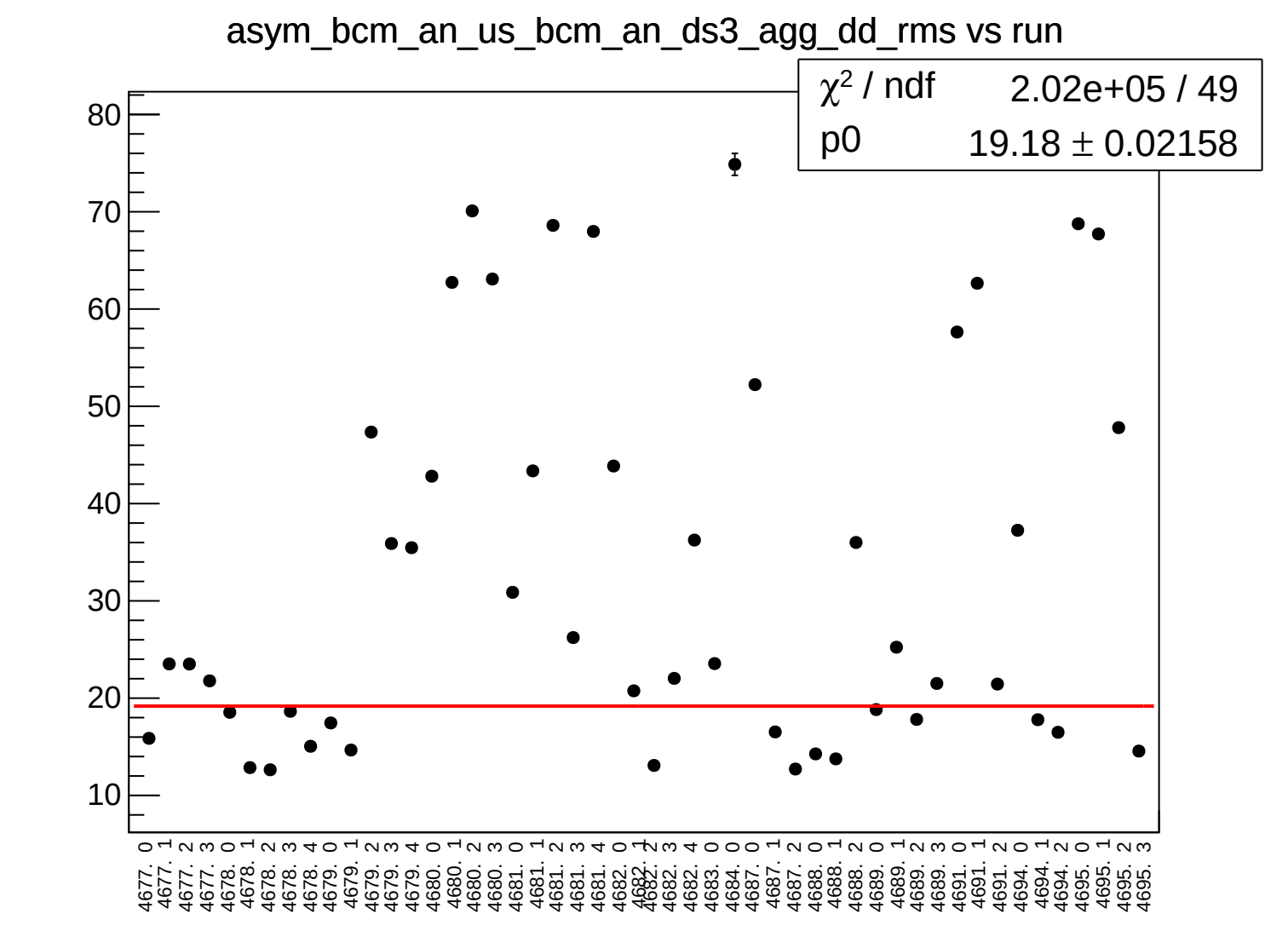
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 58.63 / 49
p0 15.75 ± 30.52
pull
Entries 50
Mean −29.35
Std Dev 57.47


pull1D
Entries 50
Mean 0.03862
Std Dev 1.082


asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2.02e+05 / 49
p0 19.18 ± 0.02158
80
70
60
50
40
30
20
10
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
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4680. 2
4680. 3
4681. 0
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4681. 2
4681. 3
4681. 4
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4682. 2
4682. 3
4682. 4
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4687. 2
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4688. 2
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4689. 2
4689. 3
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4691. 2
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4694. 1
4694. 2
4695. 0
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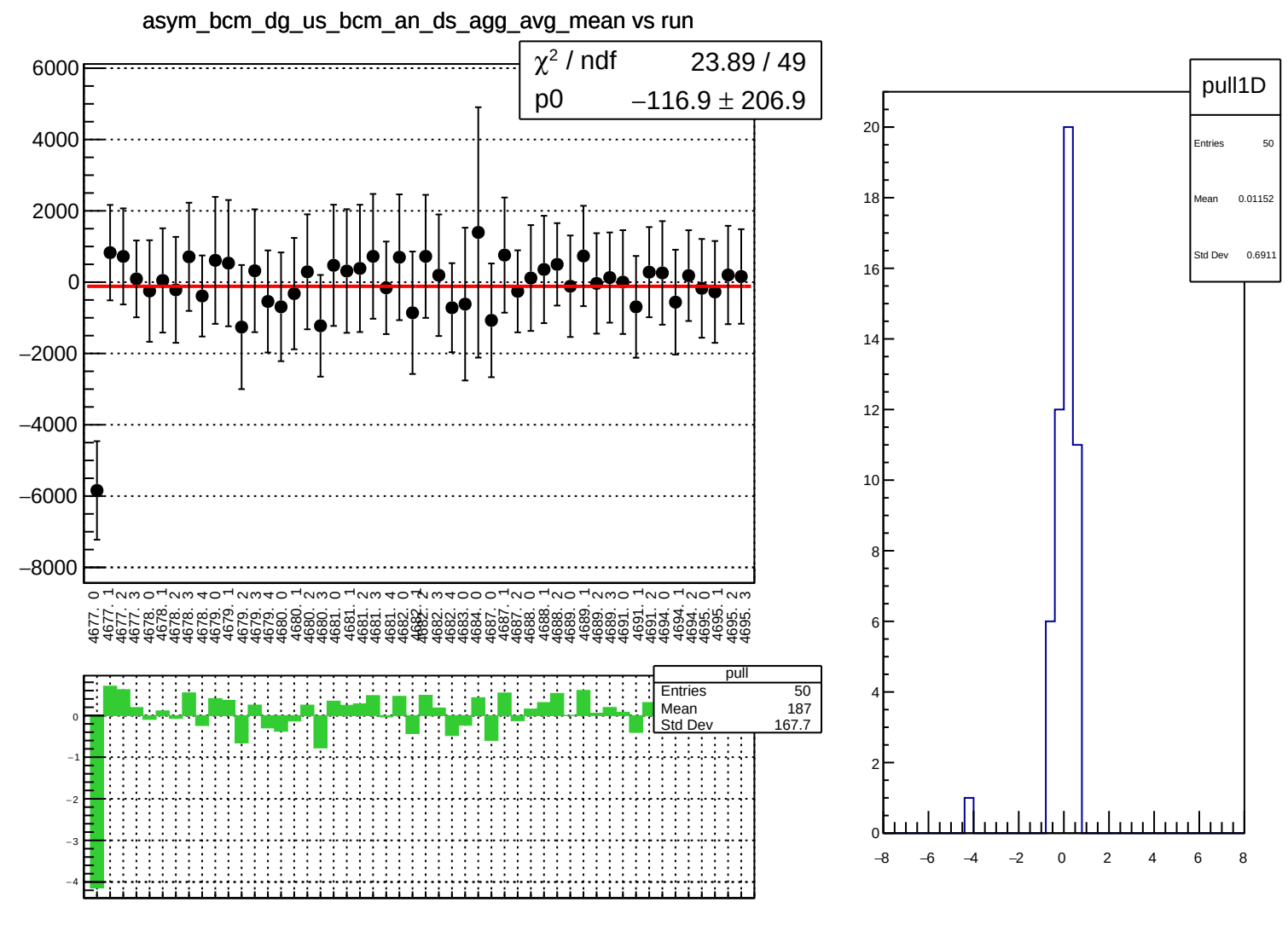
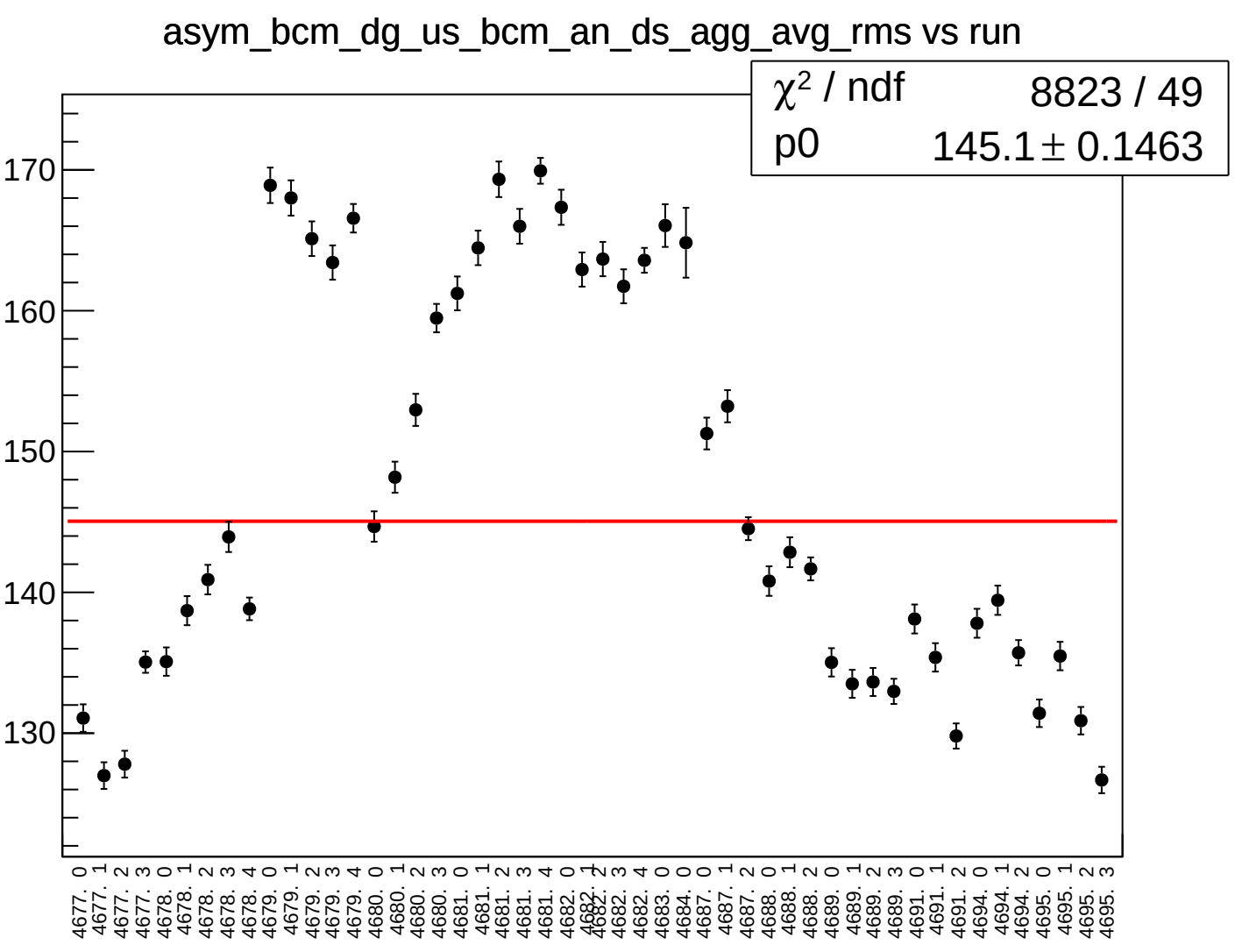
4695. 2
4695. 3


asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 23.89 / 49
p0 −116.9 ± 206.9
pull
Entries 50
Mean 187
Std Dev 167.7
pull1D
Entries 50
Mean 0.01152
Std Dev 0.6911


asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 8823 / 49
p0 145.1 ± 0.1463
170
160
150
140
130
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
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4678. 2
4678. 3
4678. 4
4679. 0
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4679. 2
4679. 3
4679. 4
4680. 0
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4680. 2
4680. 3
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4681. 2
4681. 3
4681. 4
4682. 0
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4682. 3
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4687. 2
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4688. 2
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4689. 2
4689. 3
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4691. 2
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4694. 2
4695. 0
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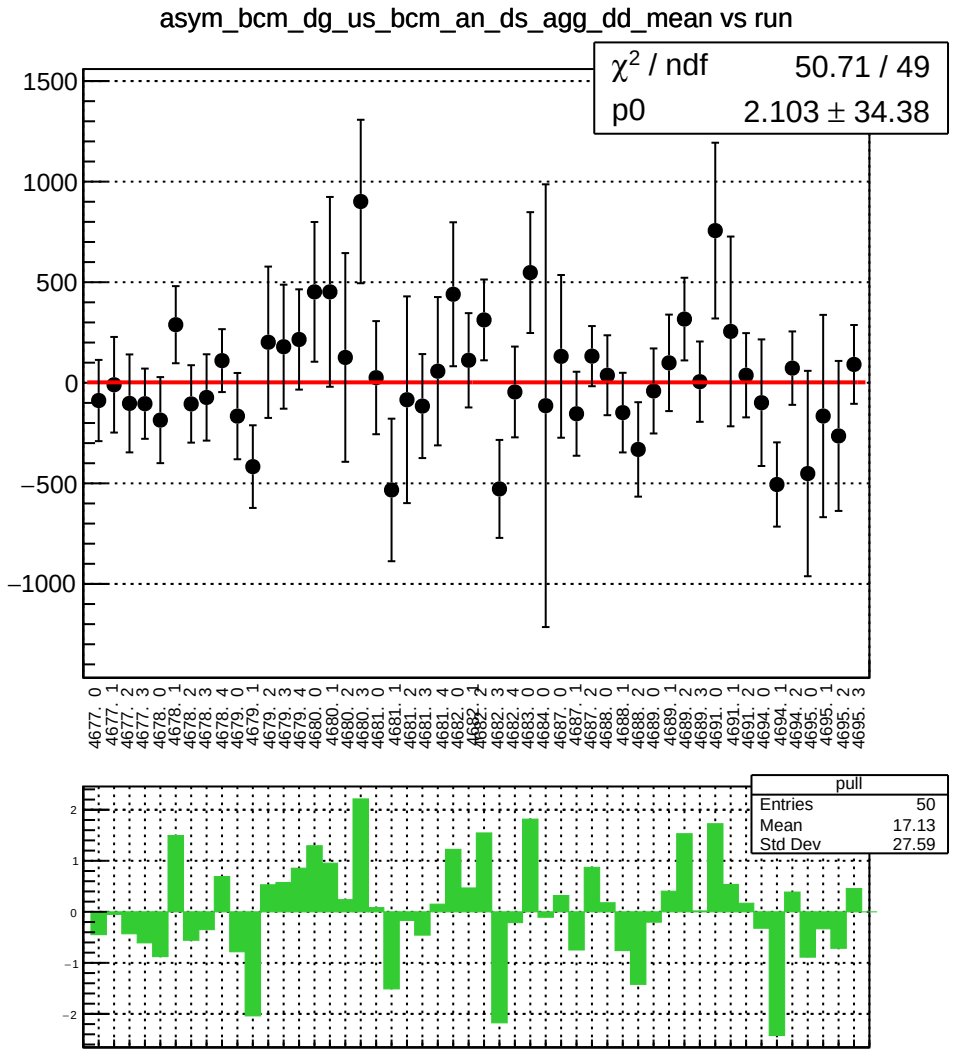
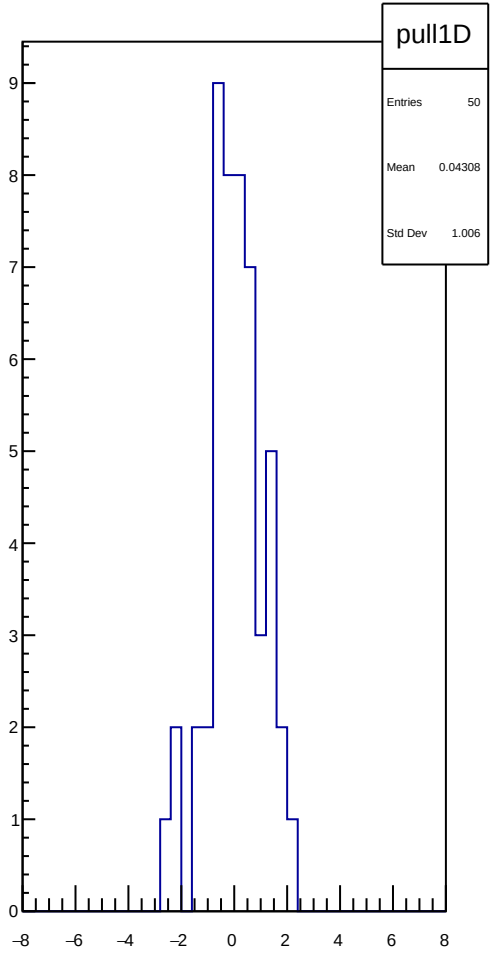
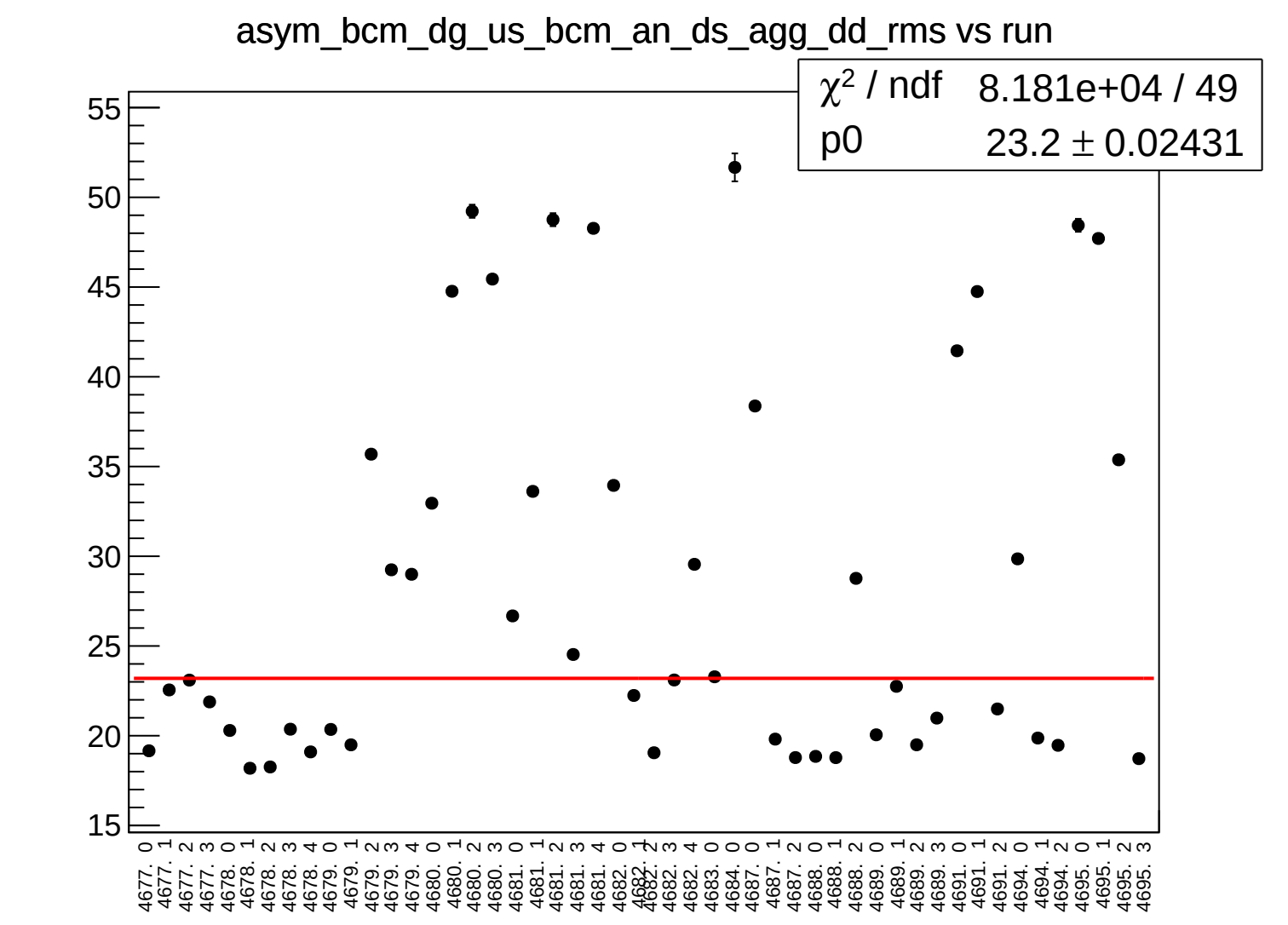
4695. 2
4695. 3


asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 50.71 / 49
p0 2.103 ± 34.38
1500
1000
500
0
−500
−1000
pull
Entries 50
Mean 17.13
Std Dev 27.59
2
1
0
−1
−2


pull1D
Entries 50
Mean 0.04308
Std Dev 1.006
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 8.181e+04 / 49
p0 23.2 ± 0.02431
55
50
45
40
35
30
25
20
15
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
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4680. 2
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4681. 2
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4689. 3
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4694. 0
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4695. 0
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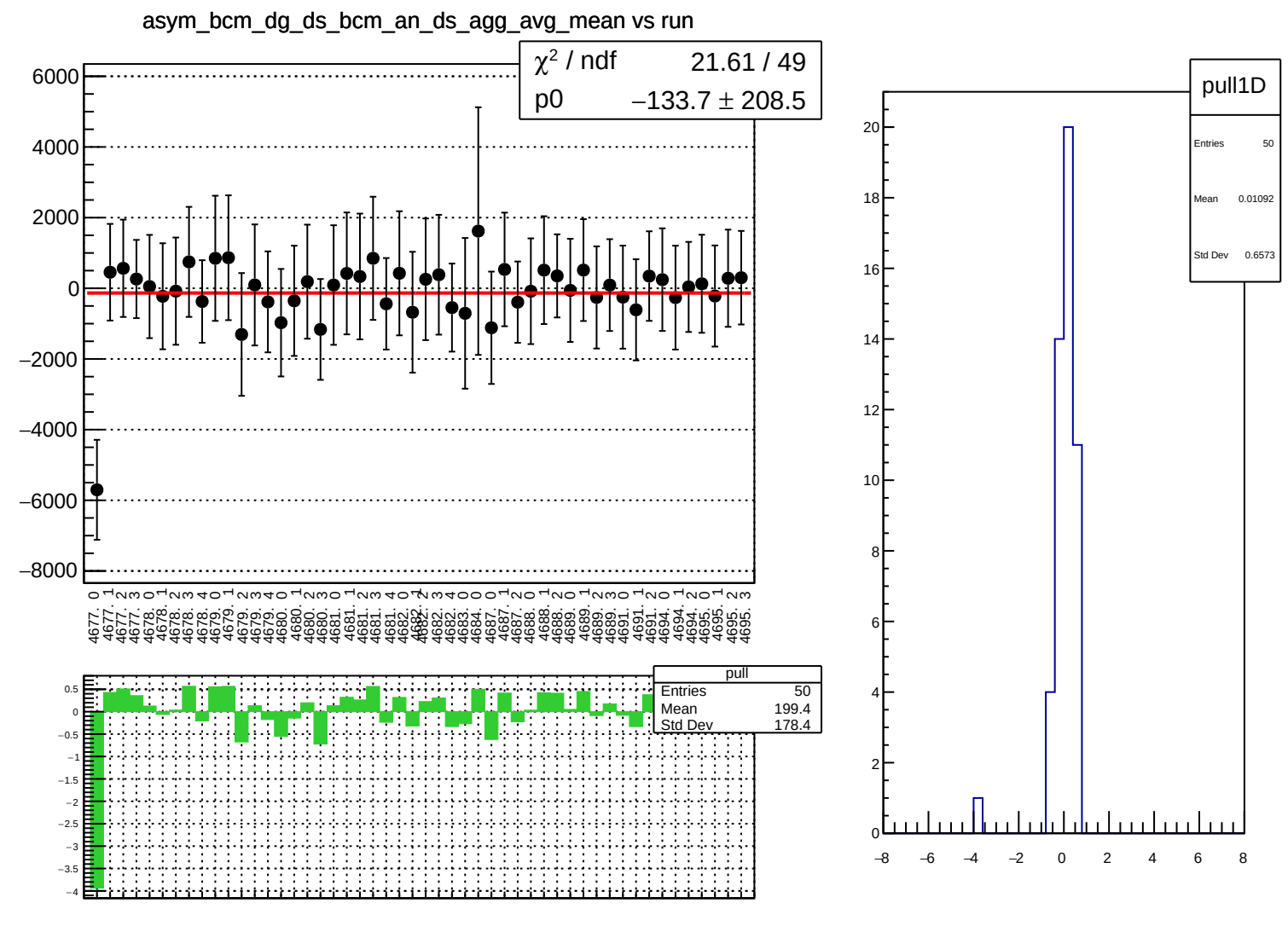
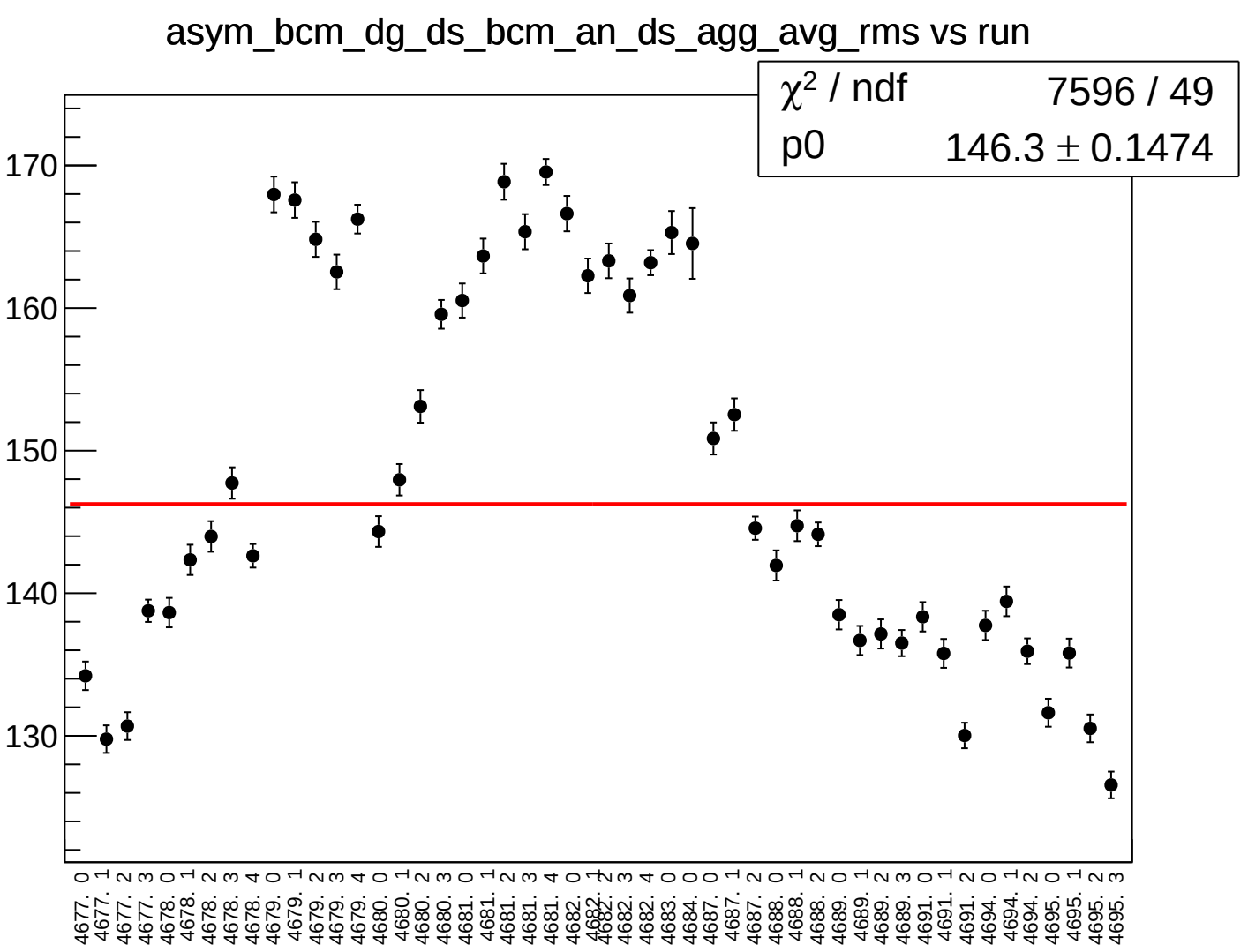
4695. 2
4695. 3


asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 21.61 / 49
p0 −133.7 ± 208.5
pull
Entries 50
Mean 199.4
Std Dev 178.4
pull1D
Entries 50
Mean 0.01092
Std Dev 0.6573


asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7596 / 49
p0 146.3 ± 0.1474
170
160
150
140
130
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
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4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
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4689. 3
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4694. 2
4695. 0
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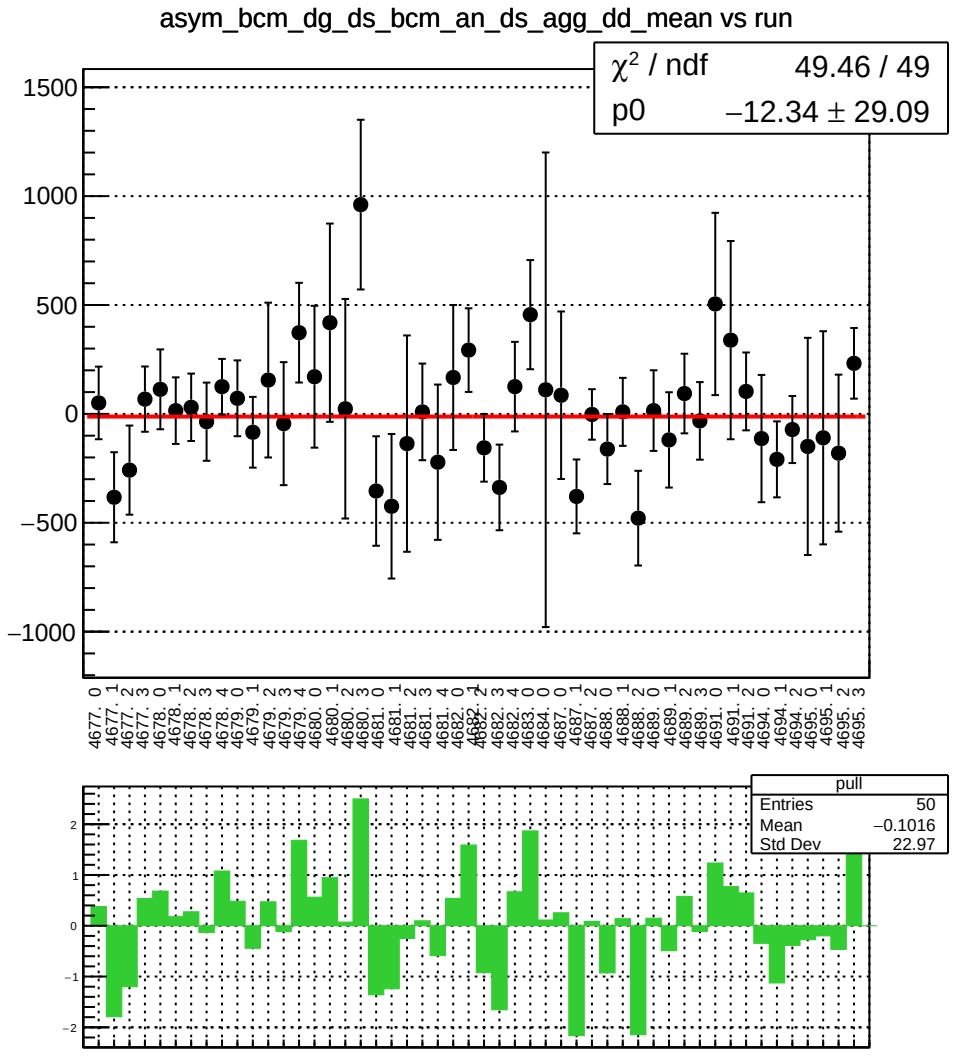
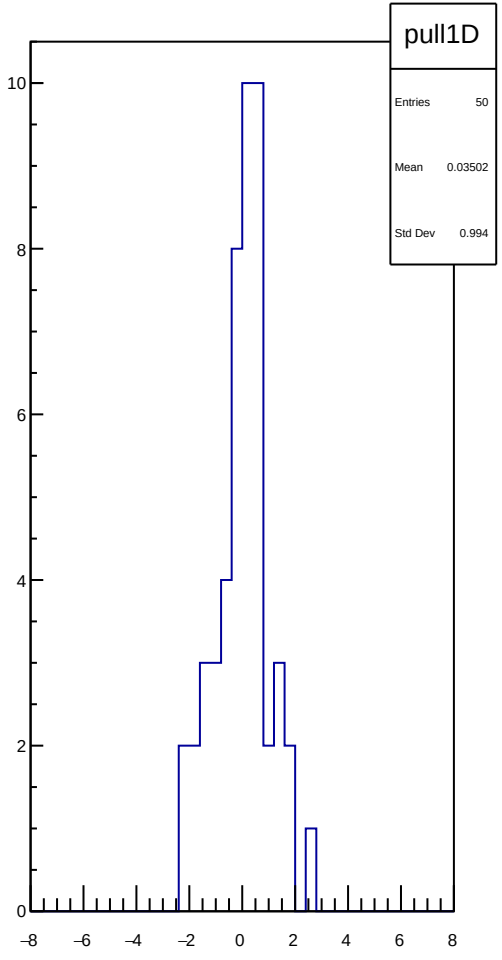
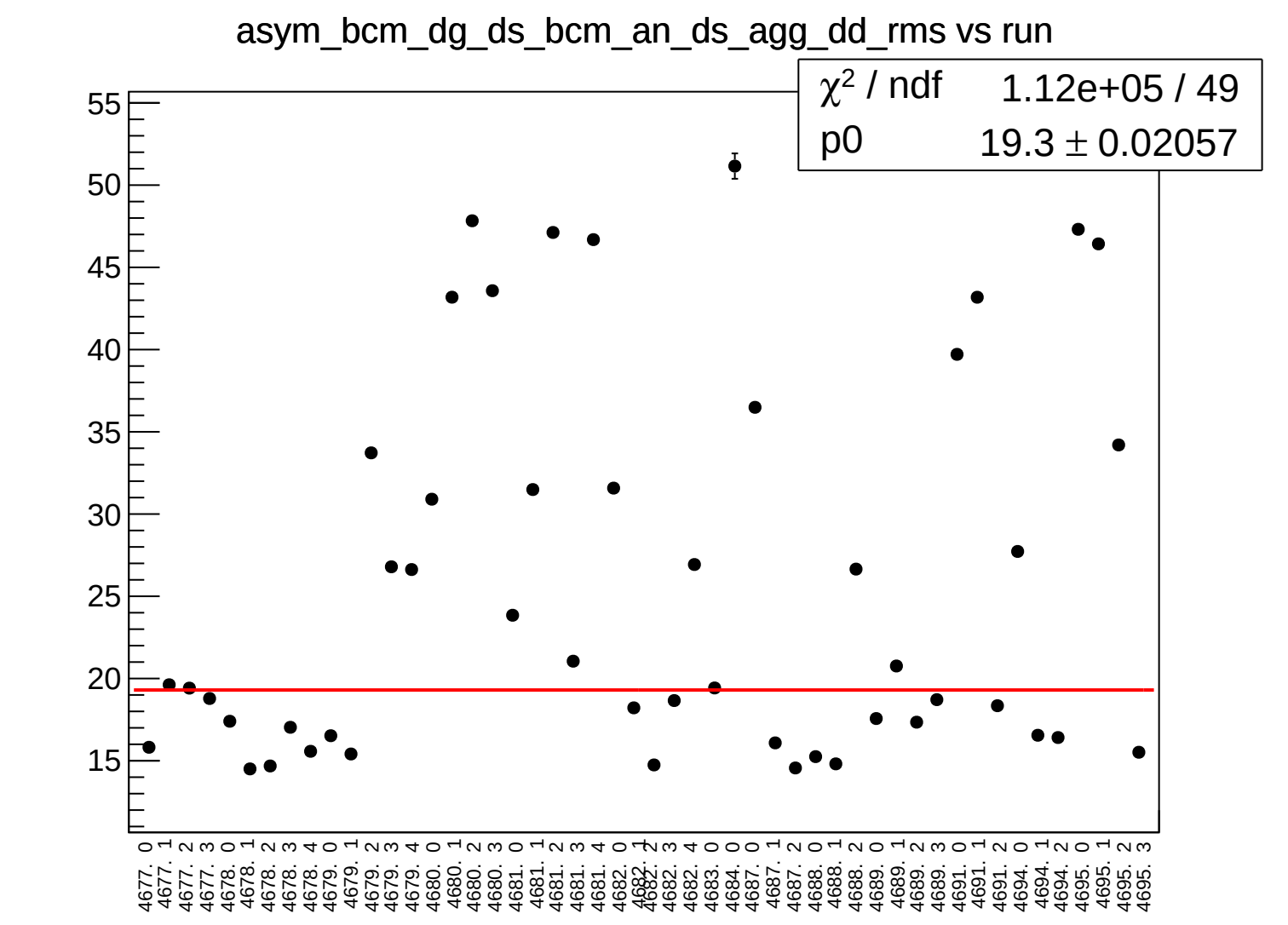
4695. 2
4695. 3


asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 49.46 / 49
p0 −12.34 ± 29.09
1500
1000
500
0
−500
−1000
pull
Entries 50
Mean −0.1016
Std Dev 22.97
2
1
0
−1
−2


pull1D
Entries 50
Mean 0.03502
Std Dev 0.994
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 1.12e+05 / 49
p0 19.3 ± 0.02057
55
50
45
40
35
30
25
20
15
4677. 0
4677. 1
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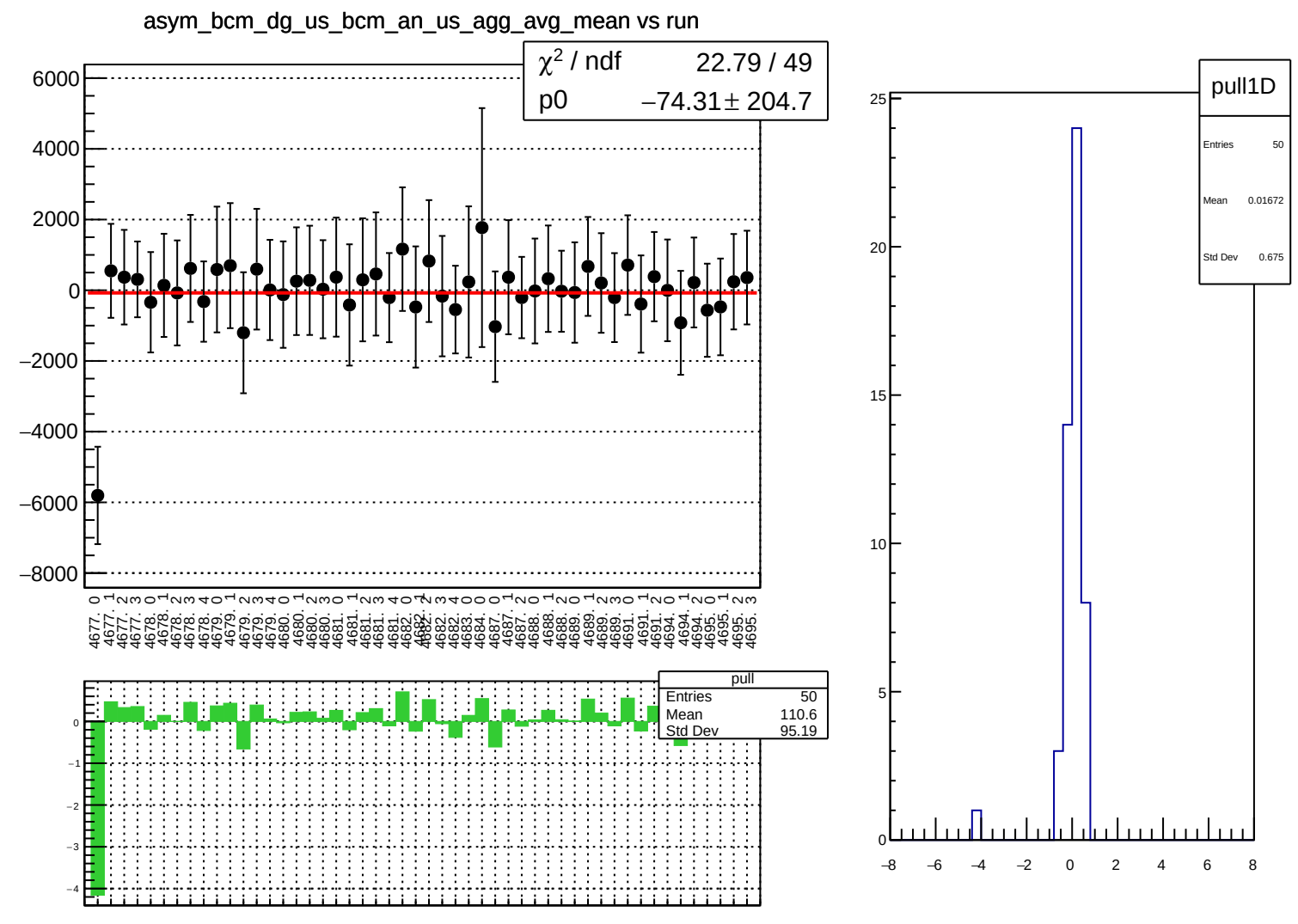
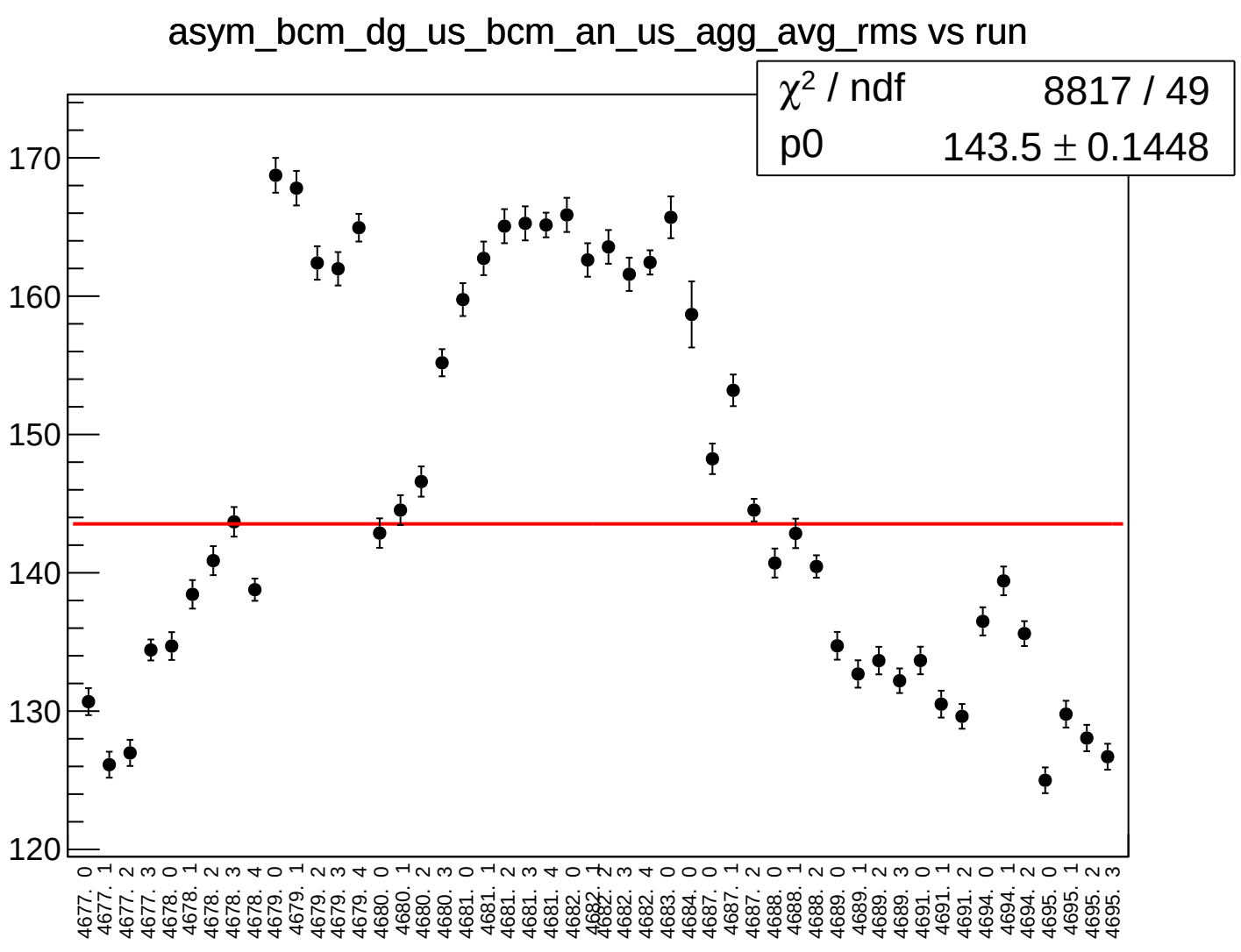
4695. 2
4695. 3


asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 22.79 / 49
p0 −74.31 ± 204.7
pull
Entries 50
Mean 110.6
Std Dev 95.19
pull1D
Entries 50
Mean 0.01672
Std Dev 0.675


asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 8817 / 49
p0 143.5 ± 0.1448
170
160
150
140
130
120
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4677. 3
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4678. 4
4679. 0
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4681. 4
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4683. 0
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4687. 2
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4688. 2
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4689. 2
4689. 3
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4691. 2
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4694. 2
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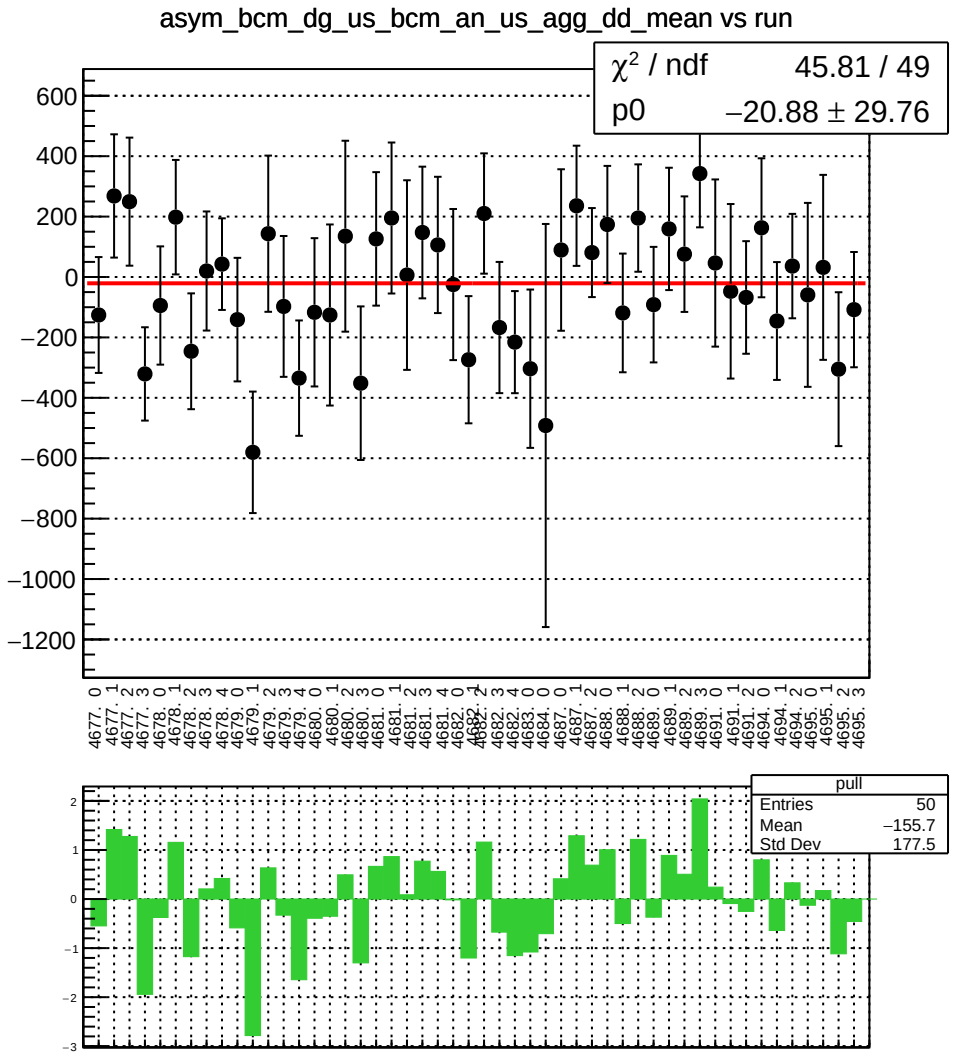
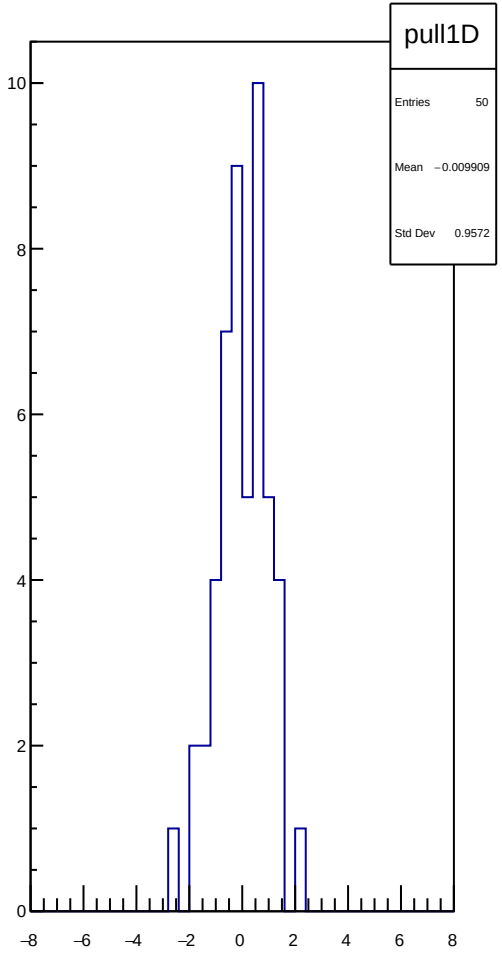
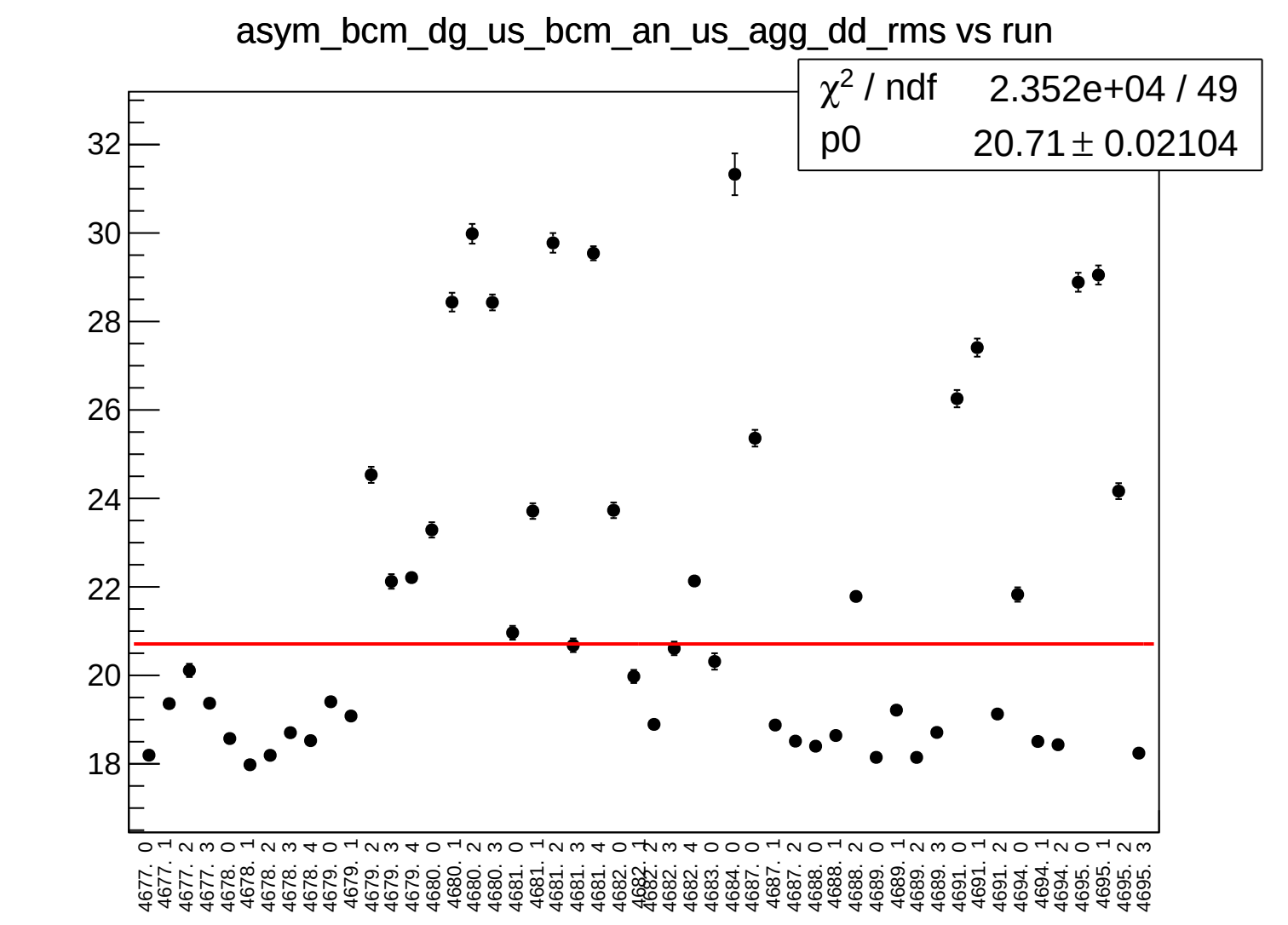
4695. 2
4695. 3


asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 45.81 / 49
p0 −20.88 ± 29.76
pull
Entries 50
Mean −155.7
Std Dev 177.5


pull1D
Entries 50
Mean −0.009909
Std Dev 0.9572


asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2.352e+04 / 49
p0 20.71 ± 0.02104
32
30
28
26
24
22
20
18
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
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4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
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4680. 2
4680. 3
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4681. 4
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4682. 2
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4682. 4
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4687. 2
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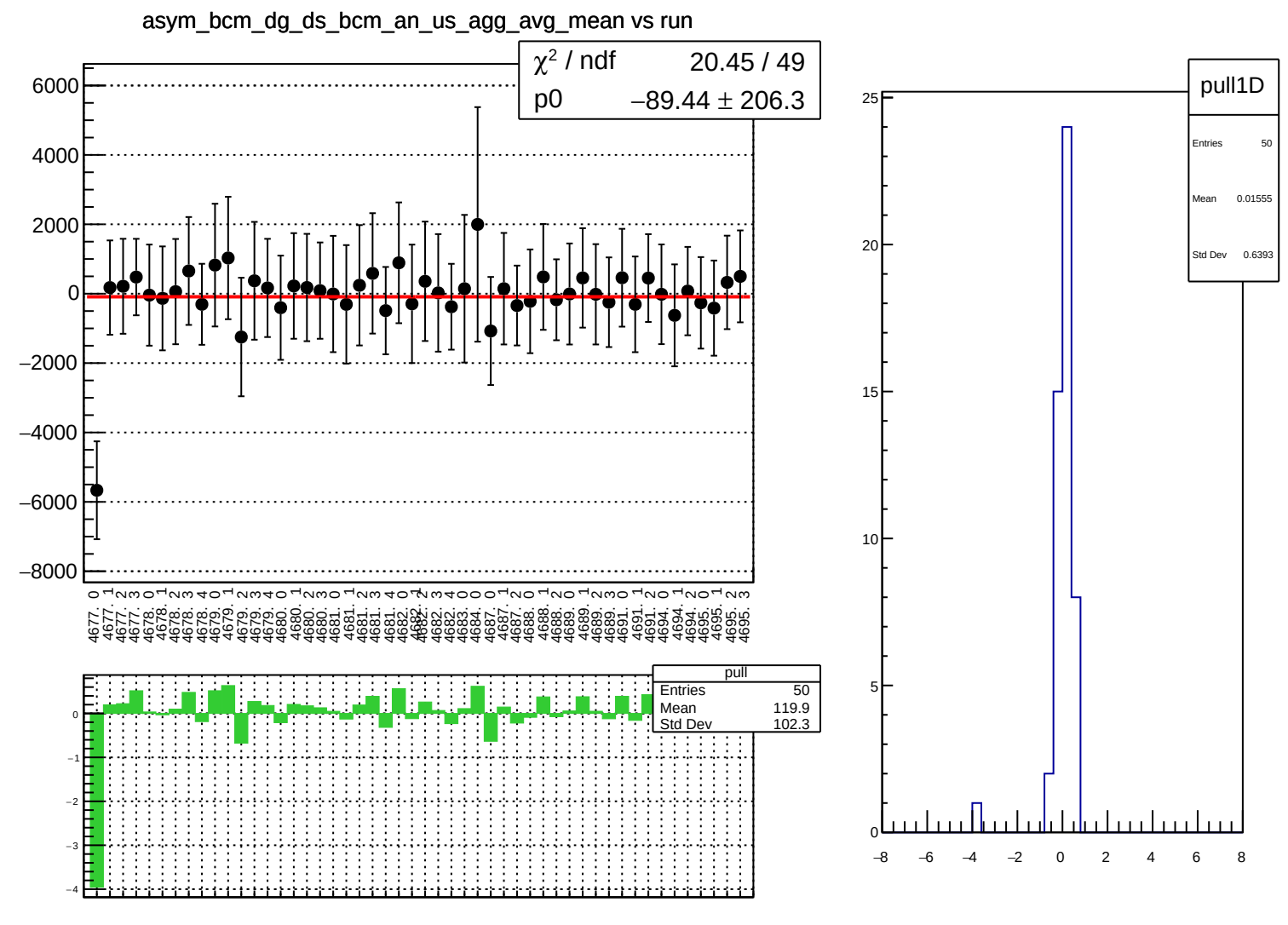
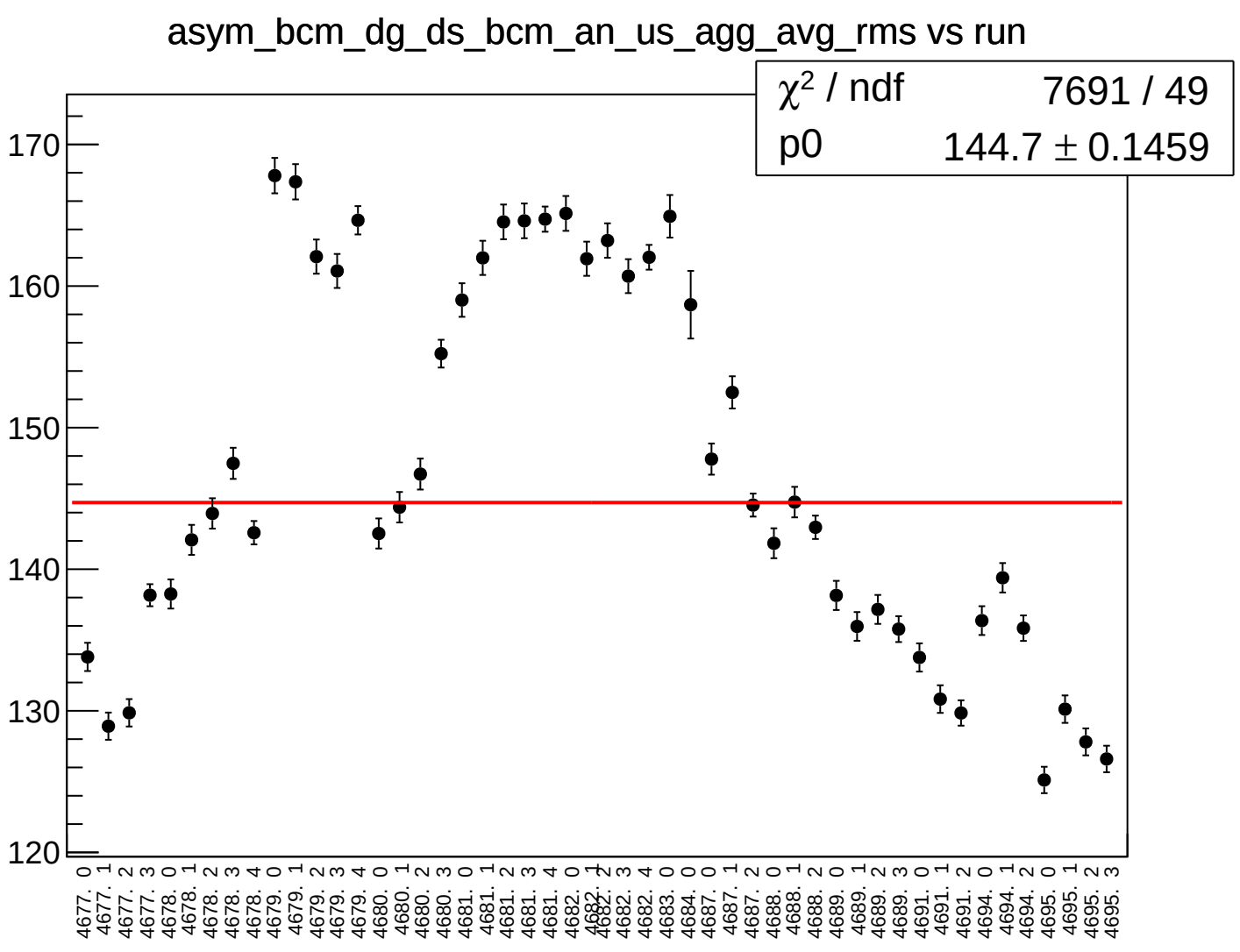
4695. 2
4695. 3


asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 20.45 / 49
p0 −89.44 ± 206.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 50
Mean 119.9
Std Dev 102.3
pull1D
Entries 50
Mean 0.01555
Std Dev 0.6393
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 7691 / 49
p0 144.7 ± 0.1459
170
160
150
140
130
120
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
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4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
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4687. 2
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4689. 3
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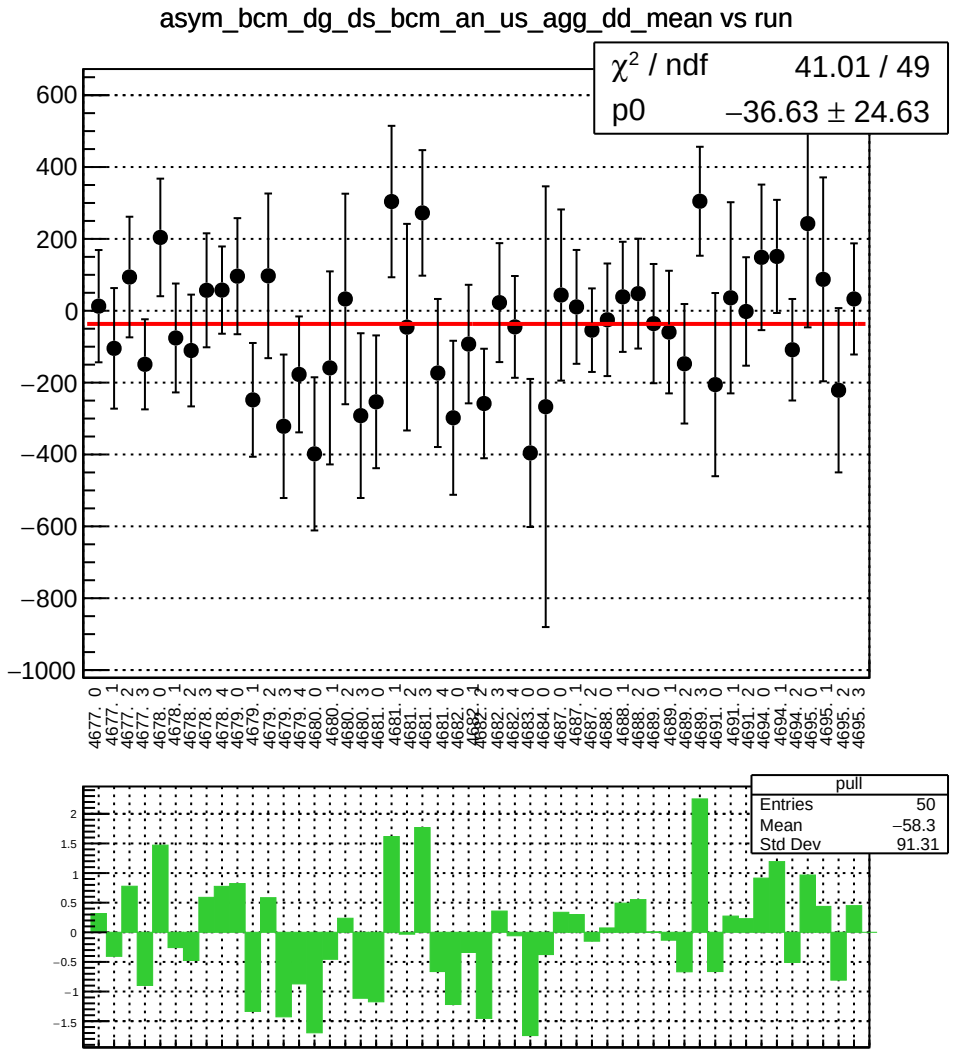
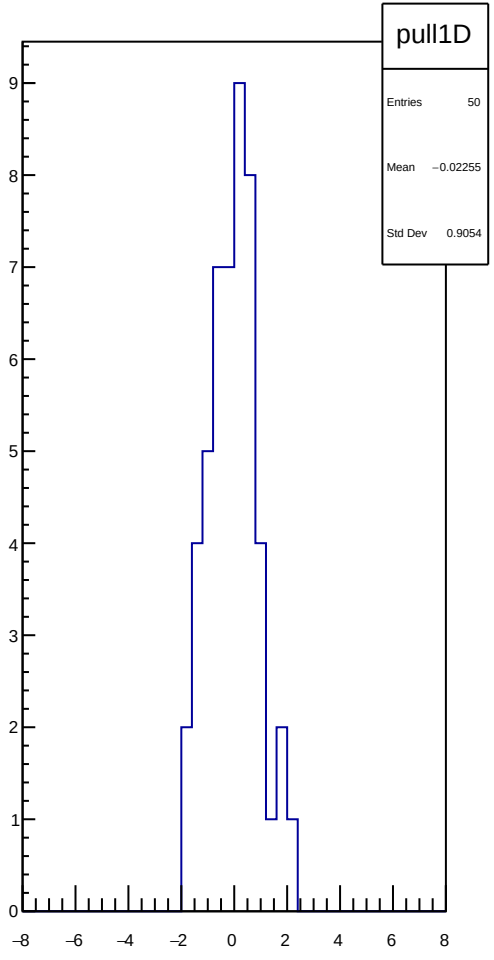
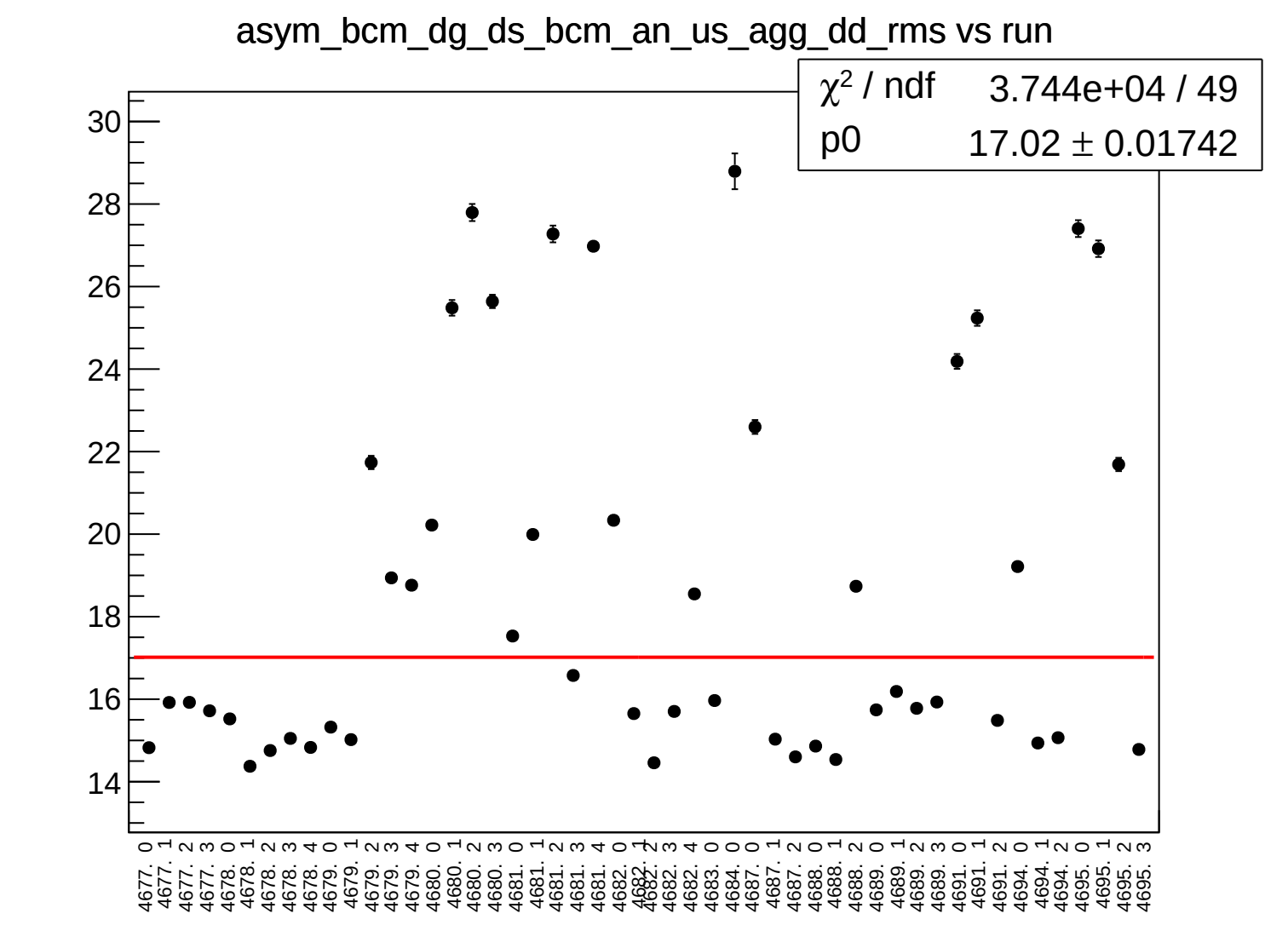
4695. 3


asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 41.01 / 49
p0 −36.63 ± 24.63
pull
Entries 50
Mean −58.3
Std Dev 91.31


pull1D
Entries 50
Mean −0.02255
Std Dev 0.9054


asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3.744e+04 / 49
p0 17.02 ± 0.01742
30
28
26
24
22
20
18
16
14
4677. 0
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4678. 3
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4679. 1
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4680. 2
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4682. 0
4682. 1
4682. 2
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4682. 4
4683. 0
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4687. 0
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4687. 2
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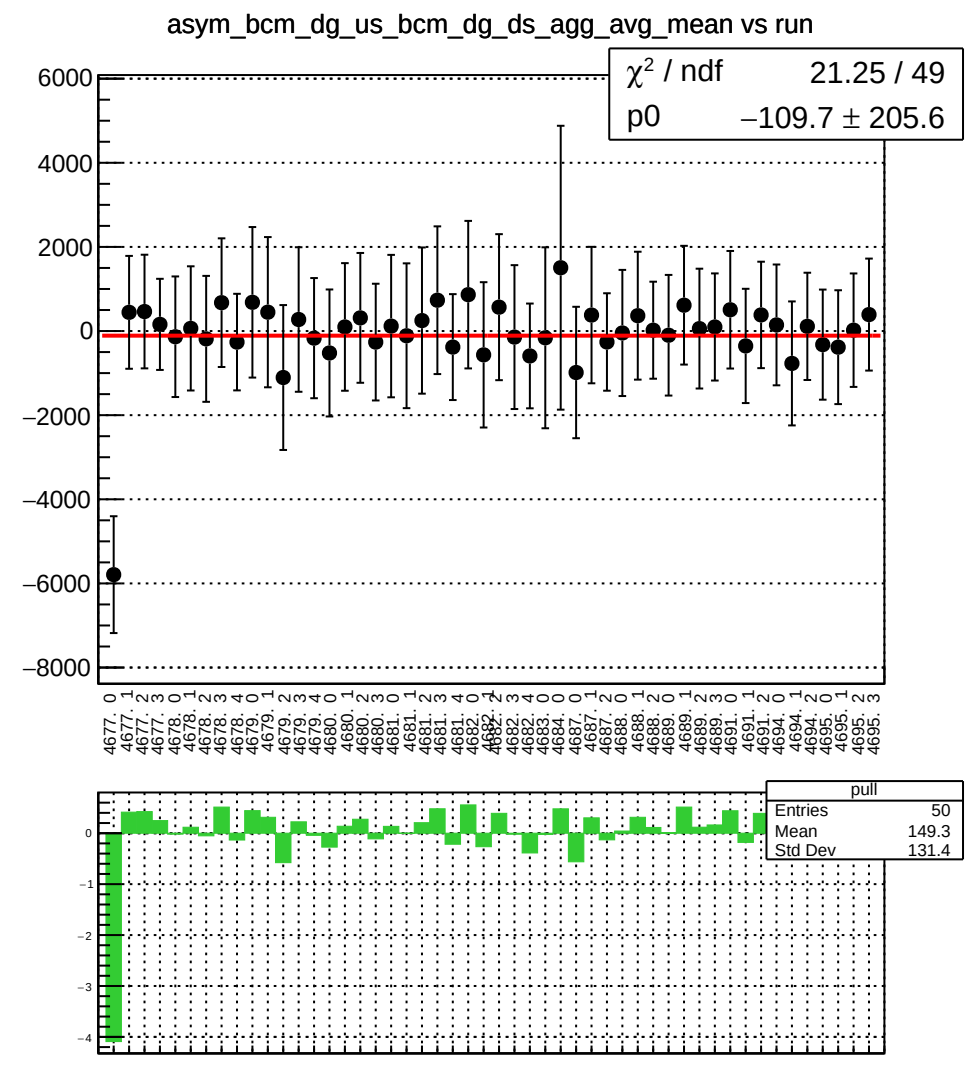
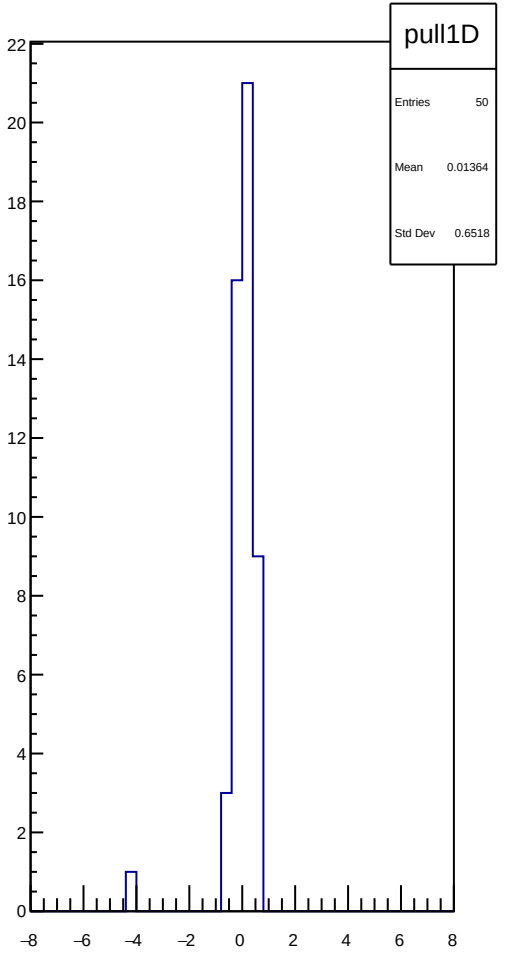
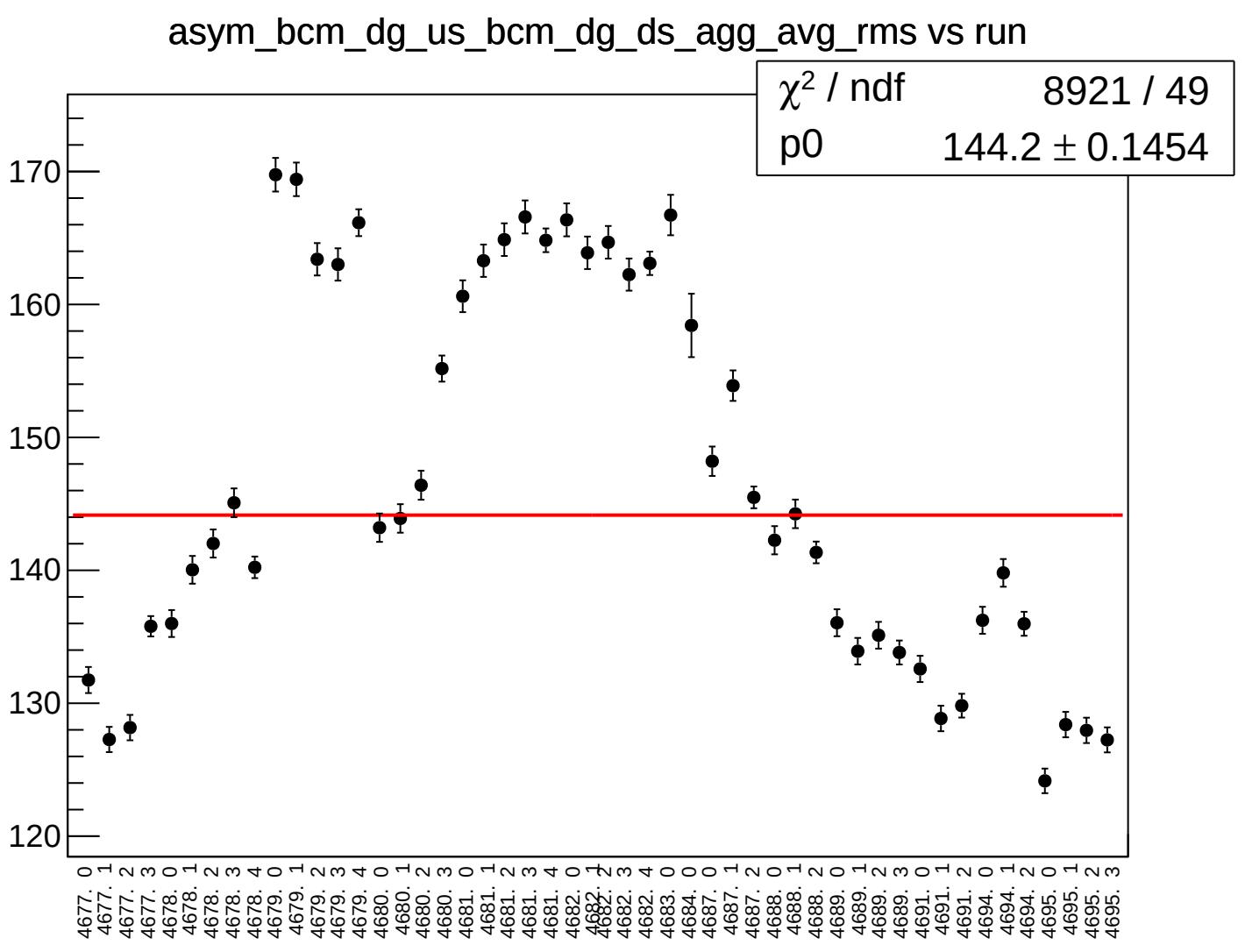
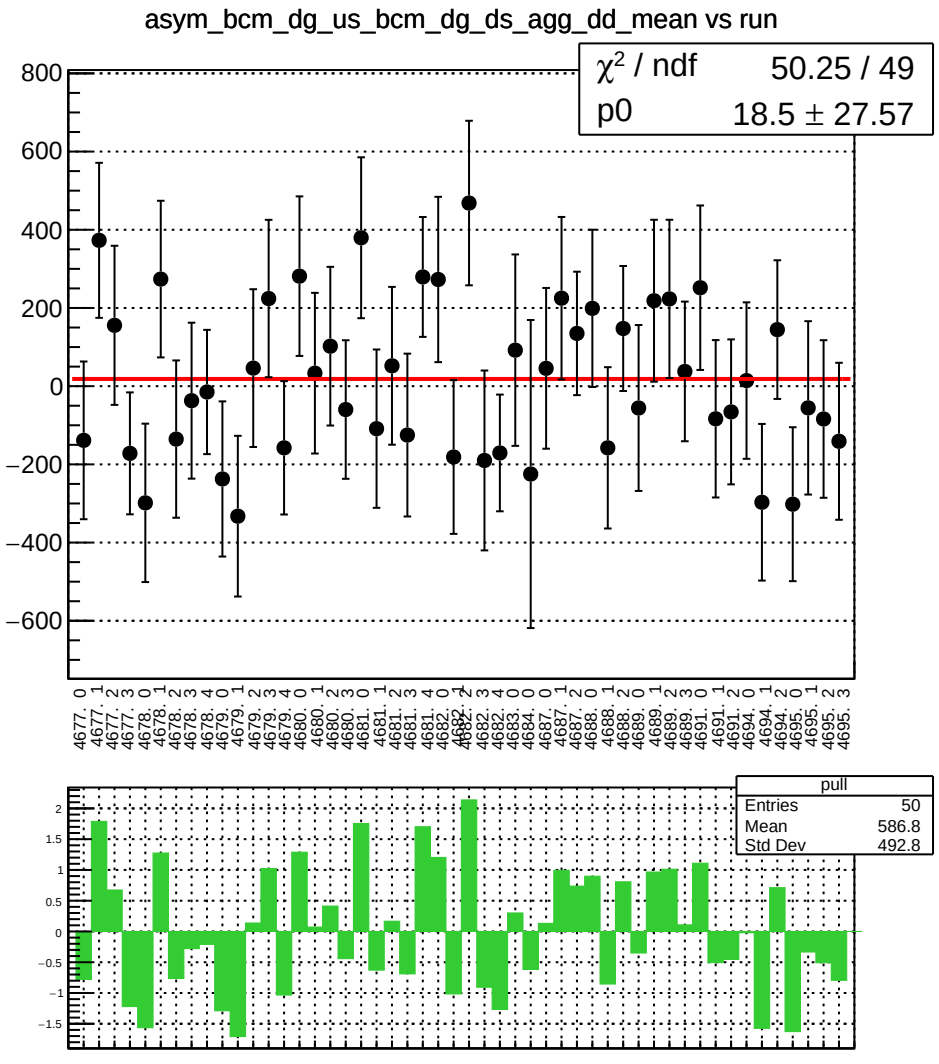
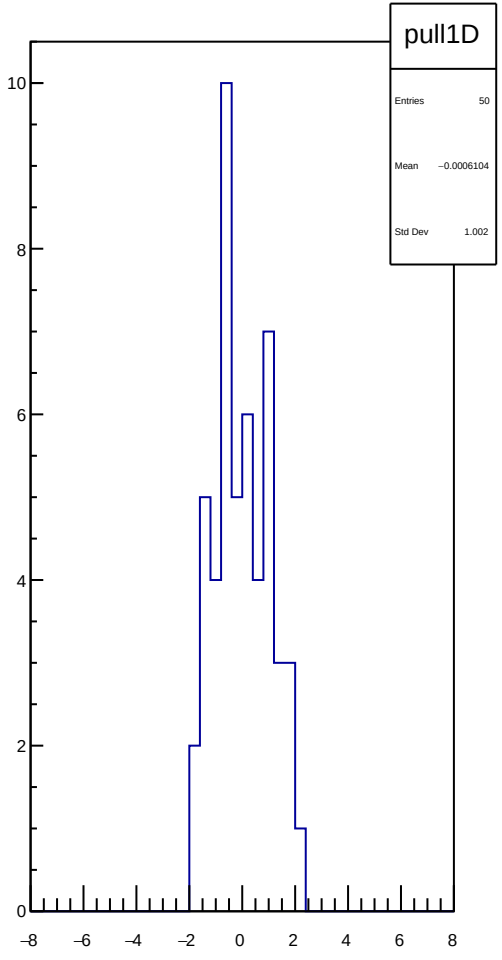
4695. 3

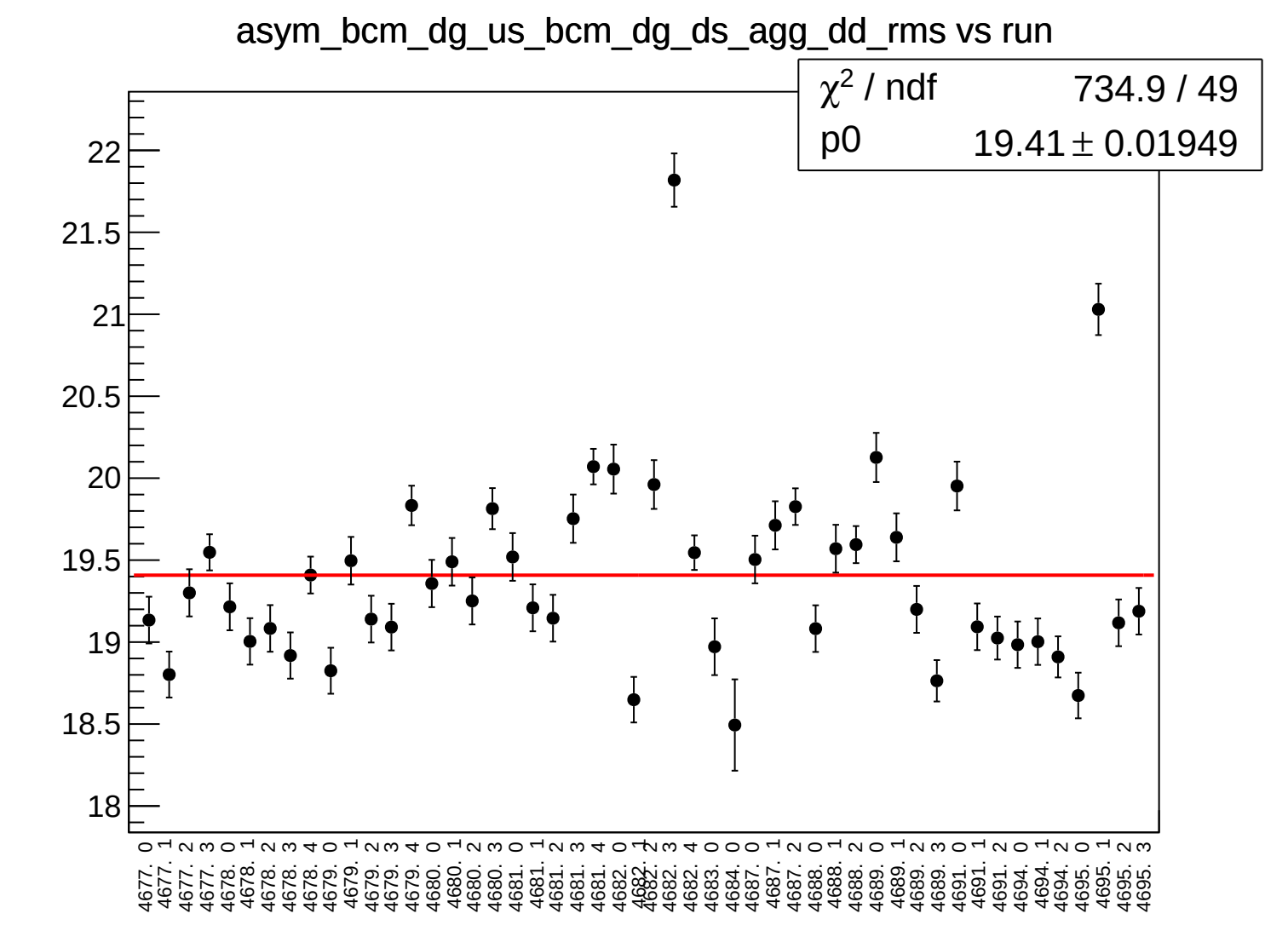

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 21.25 / 49
p0 −109.7 ± 205.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 50
Mean 149.3
Std Dev 131.4


pull1D
Entries 50
Mean 0.01364
Std Dev 0.6518


asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 8921 / 49
p0 144.2 ± 0.1454
170
160
150
140
130
120
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 50.25 / 49
p0 18.5 ± 27.57
pull
Entries 50
Mean 586.8
Std Dev 492.8


pull1D
Entries 50
Mean −0.0006104
Std Dev 1.002


asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 734.9 / 49
p0 19.41 ± 0.01949
22
21.5
21
20.5
20
19.5
19
18.5
18
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4694. 1
4694. 2
4695. 0
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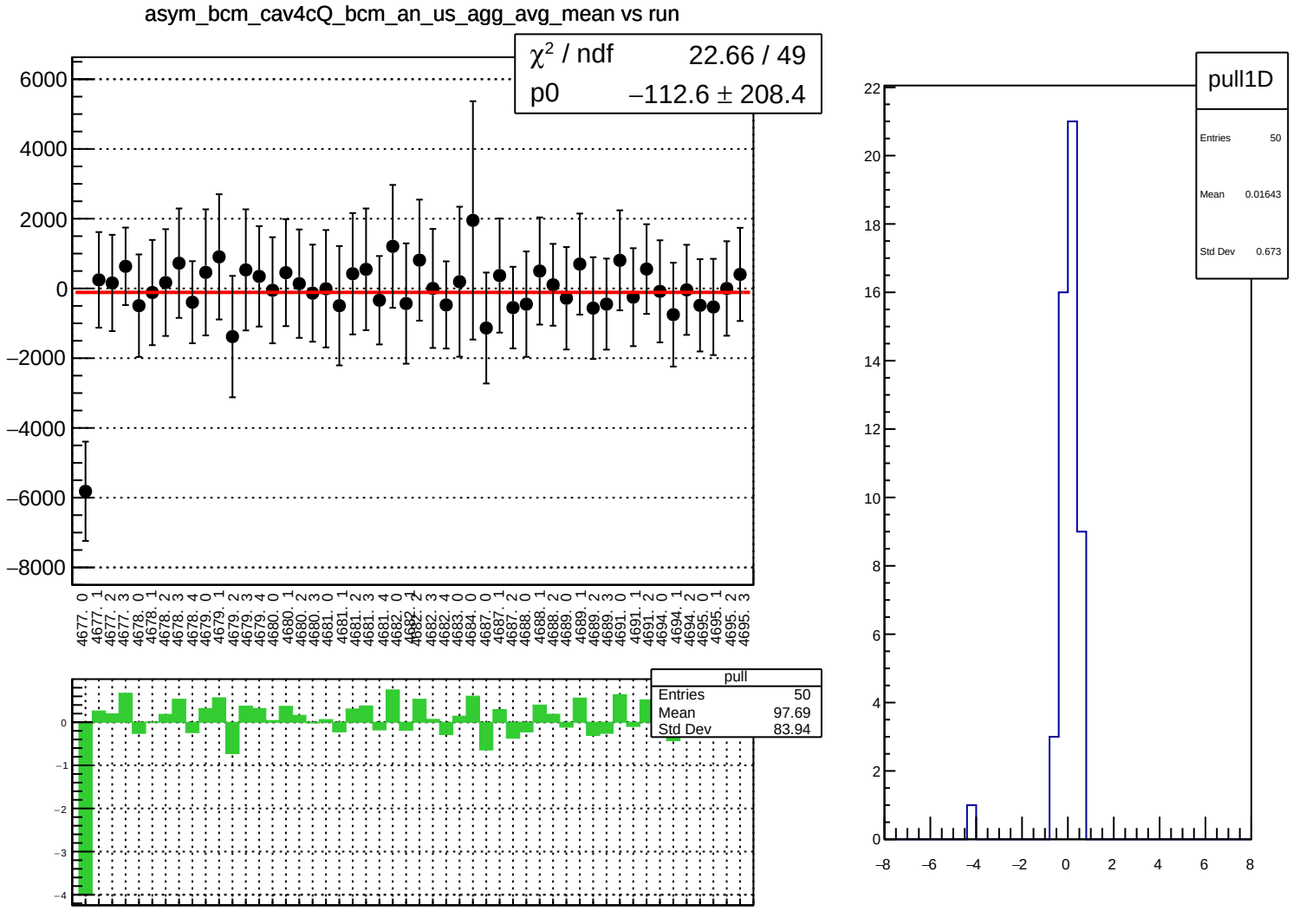
4695. 2
4695. 3


asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 22.66 / 49
p0 −112.6 ± 208.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
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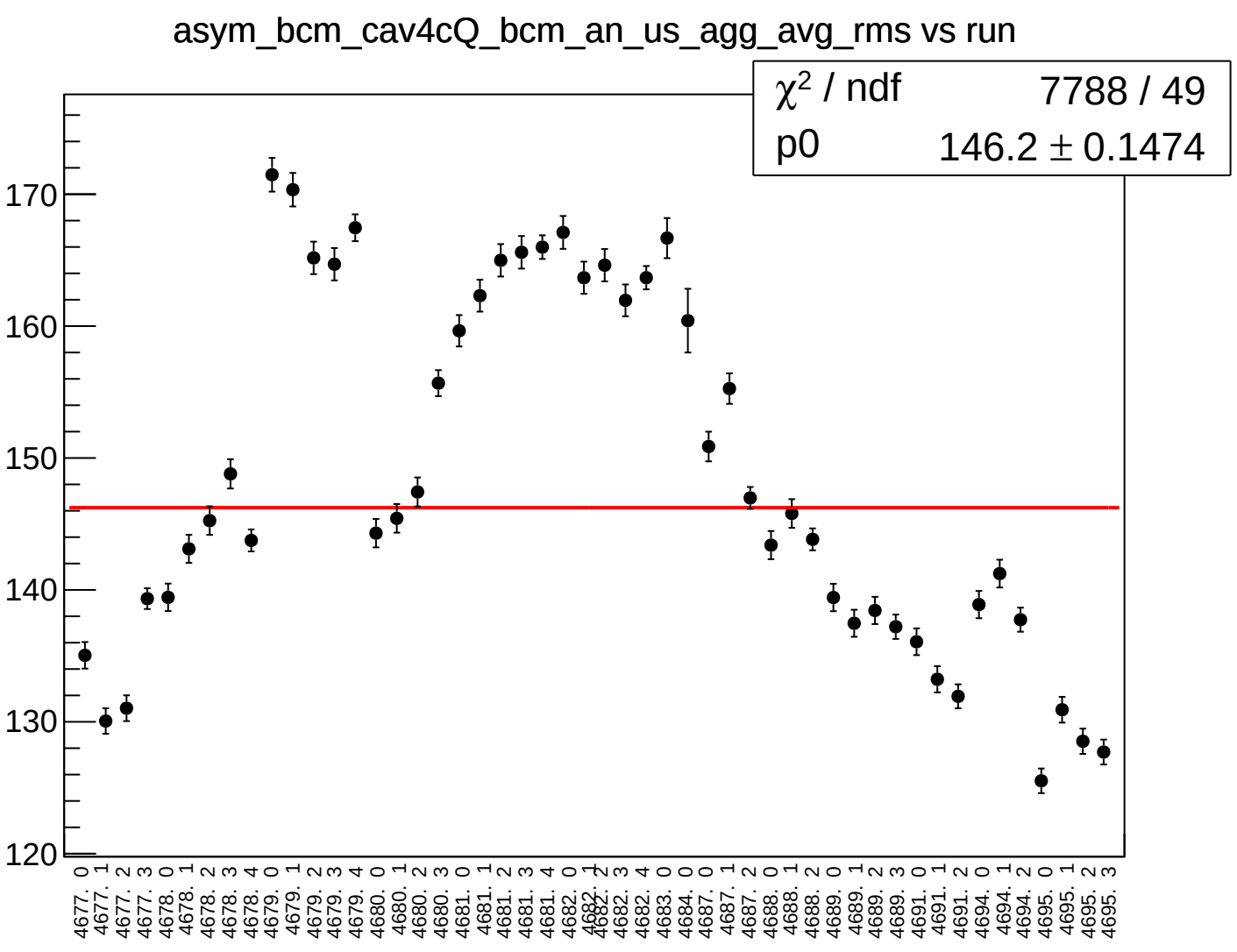
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 97.69
Std Dev 83.94
0
−1
−2
−3
−4
pull1D
Entries 50
Mean 0.01643
Std Dev 0.673
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_us_agg_avg_rms vs run
χ² / ndf 7788 / 49
p0 146.2 ± 0.1474
170
160
150
140
130
120
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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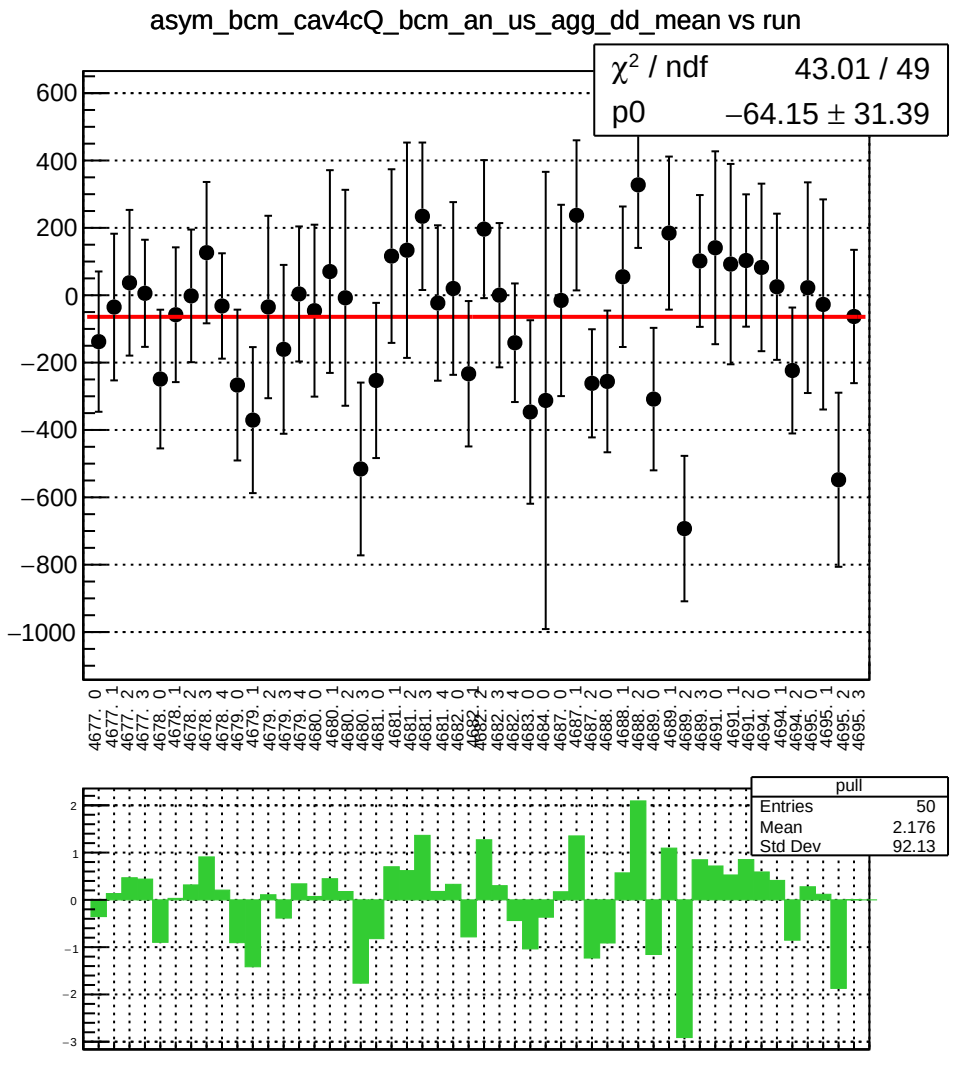
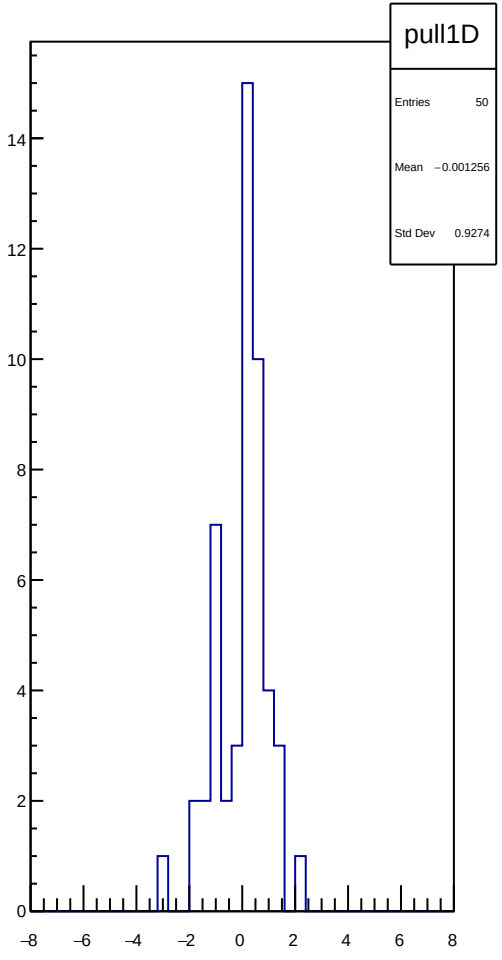
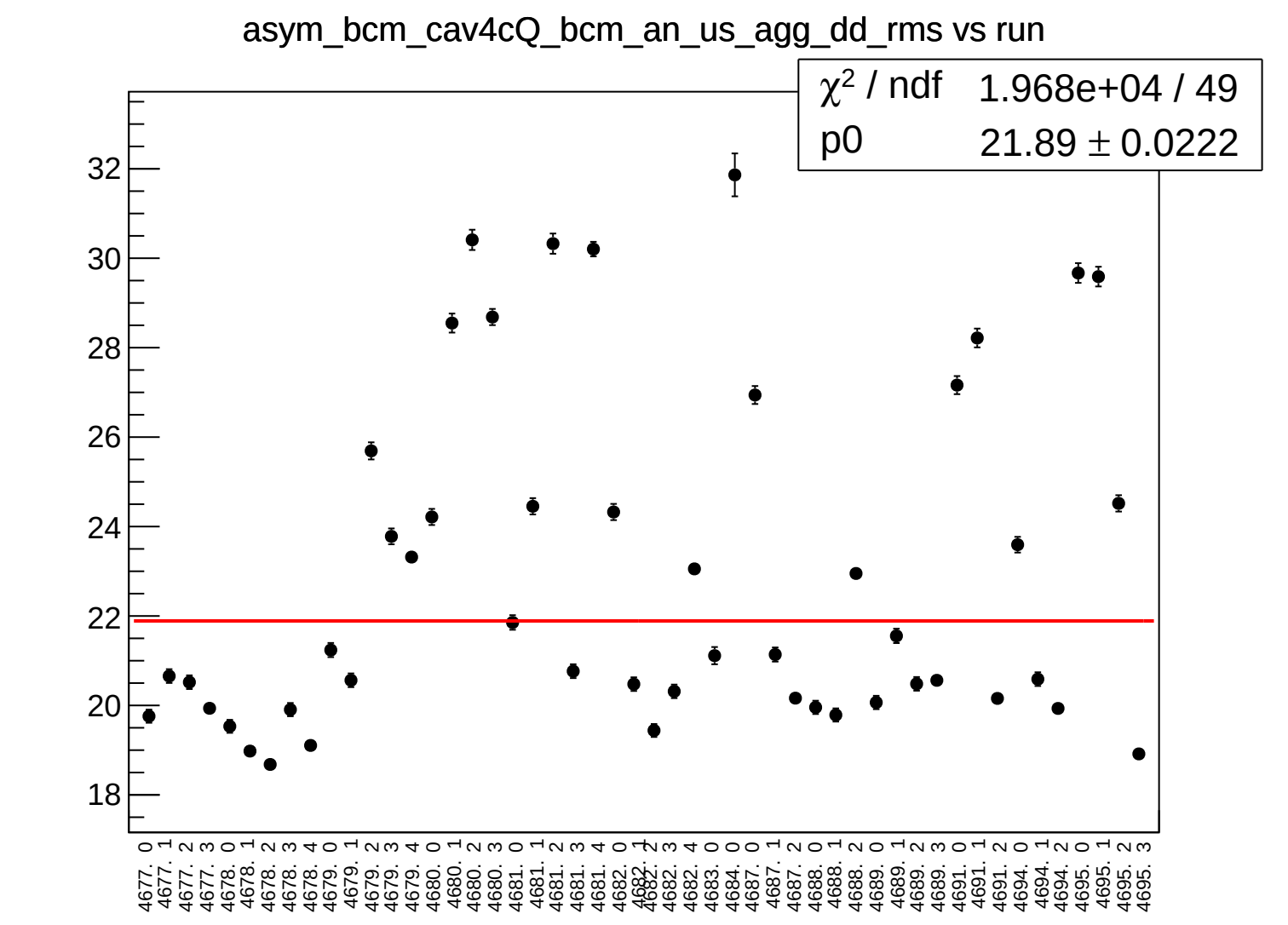
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 43.01 / 49
p0 −64.15 ± 31.39
pull
Entries 50
Mean 2.176
Std Dev 92.13


pull1D
Entries 50
Mean −0.001256
Std Dev 0.9274


asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1.968e+04 / 49
p0 21.89 ± 0.0222
32
30
28
26
24
22
20
18
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
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4687. 2
4688. 0
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4688. 2
4689. 0
4689. 1
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4689. 3
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4691. 2
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4695. 0
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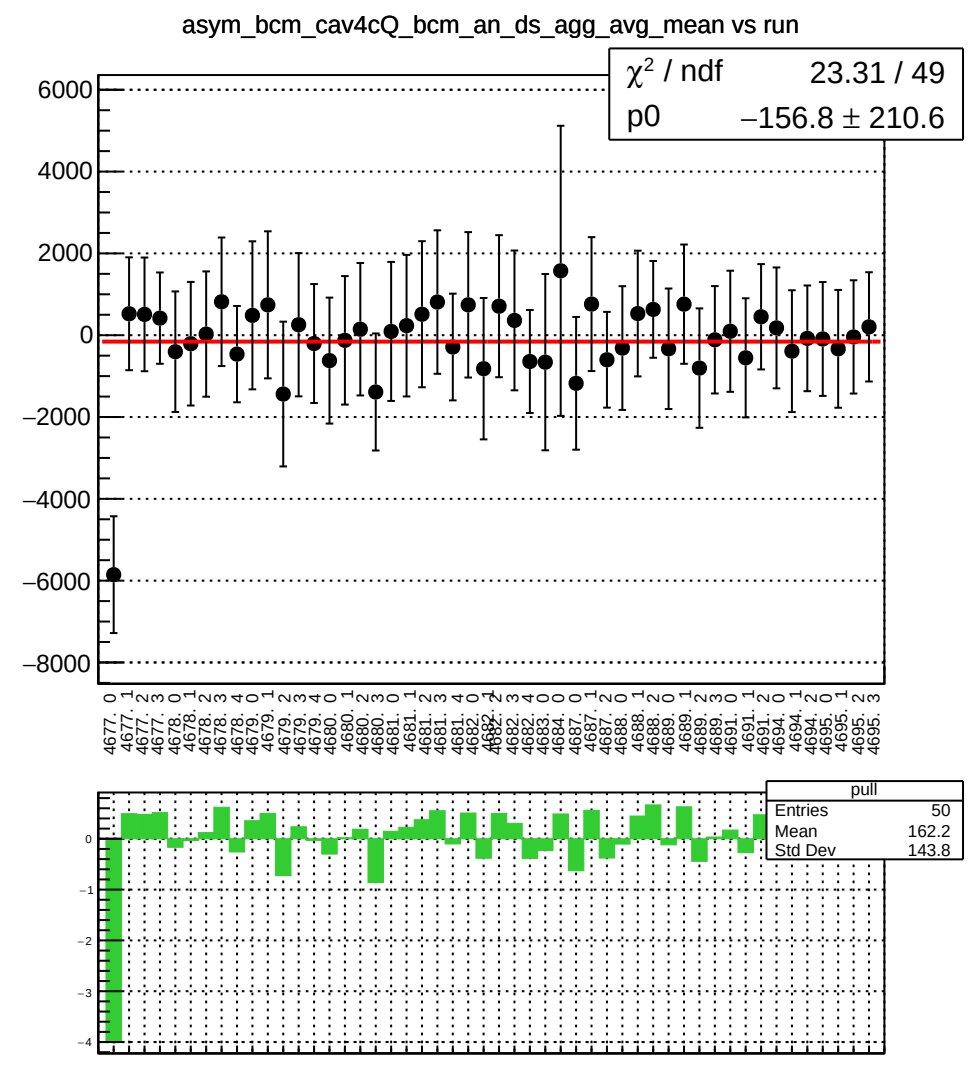
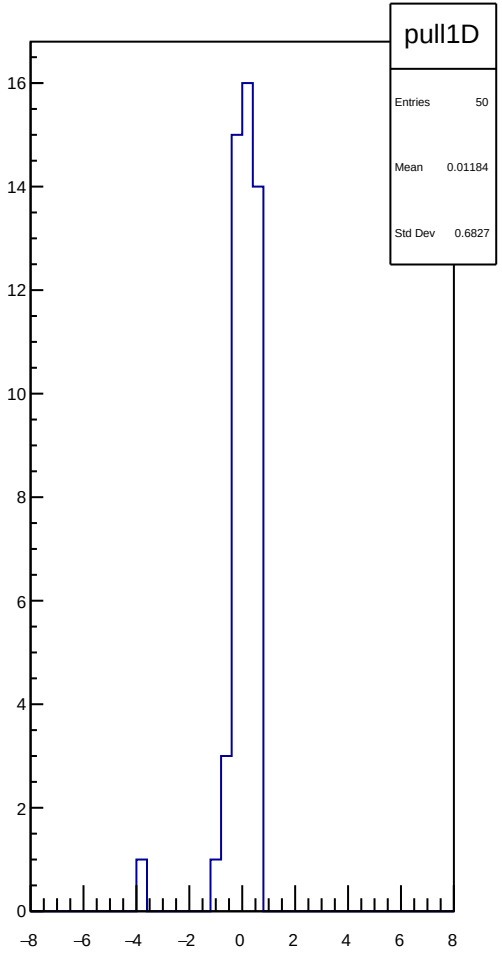
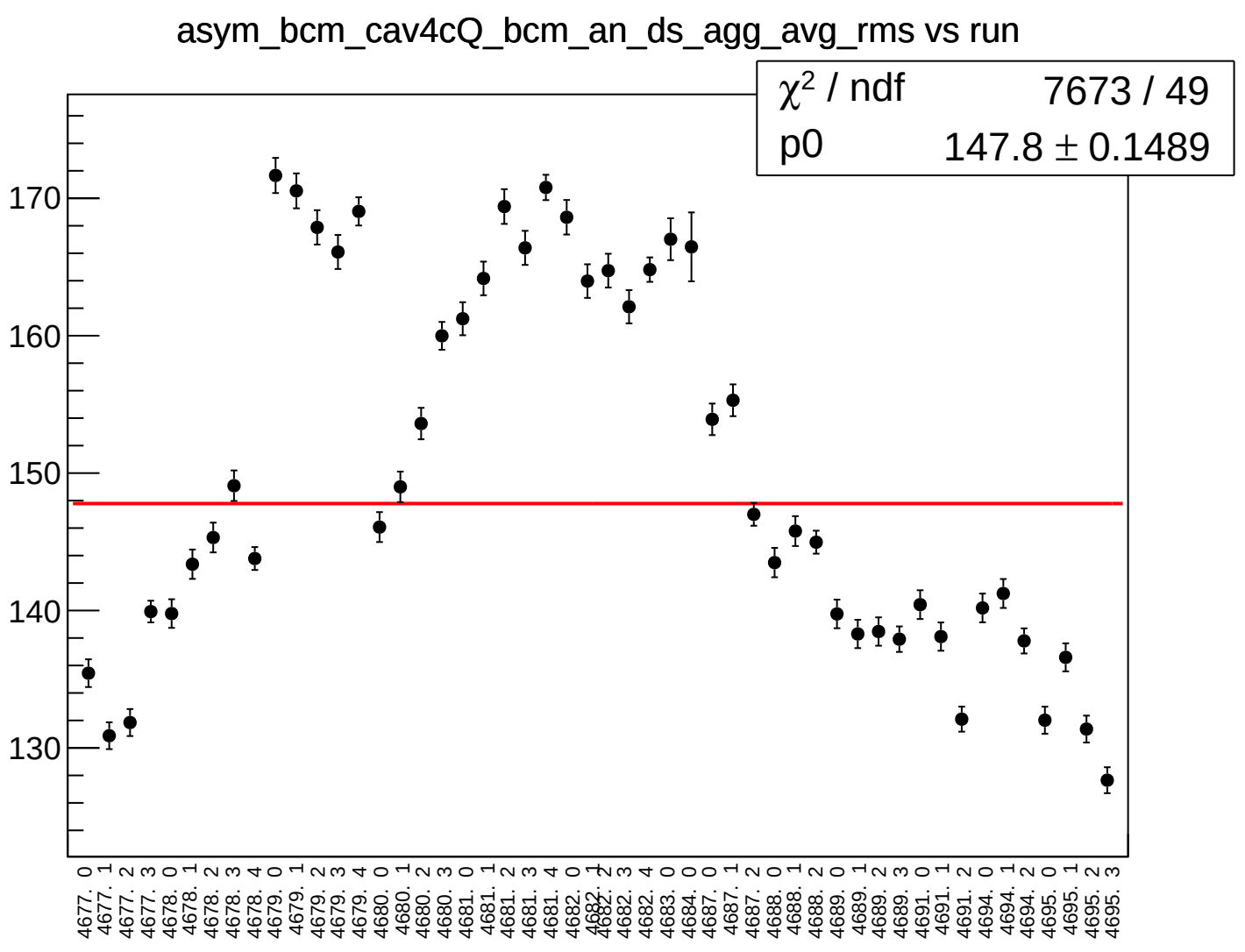
4695. 2
4695. 3


asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 23.31 / 49
p0 −156.8 ± 210.6
pull
Entries 50
Mean 162.2
Std Dev 143.8


pull1D
Entries 50
Mean 0.01184
Std Dev 0.6827


asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7673 / 49
p0 147.8 ± 0.1489
170
160
150
140
130
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
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4680. 2
4680. 3
4681. 0
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4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4691. 2
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4694. 1
4694. 2
4695. 0
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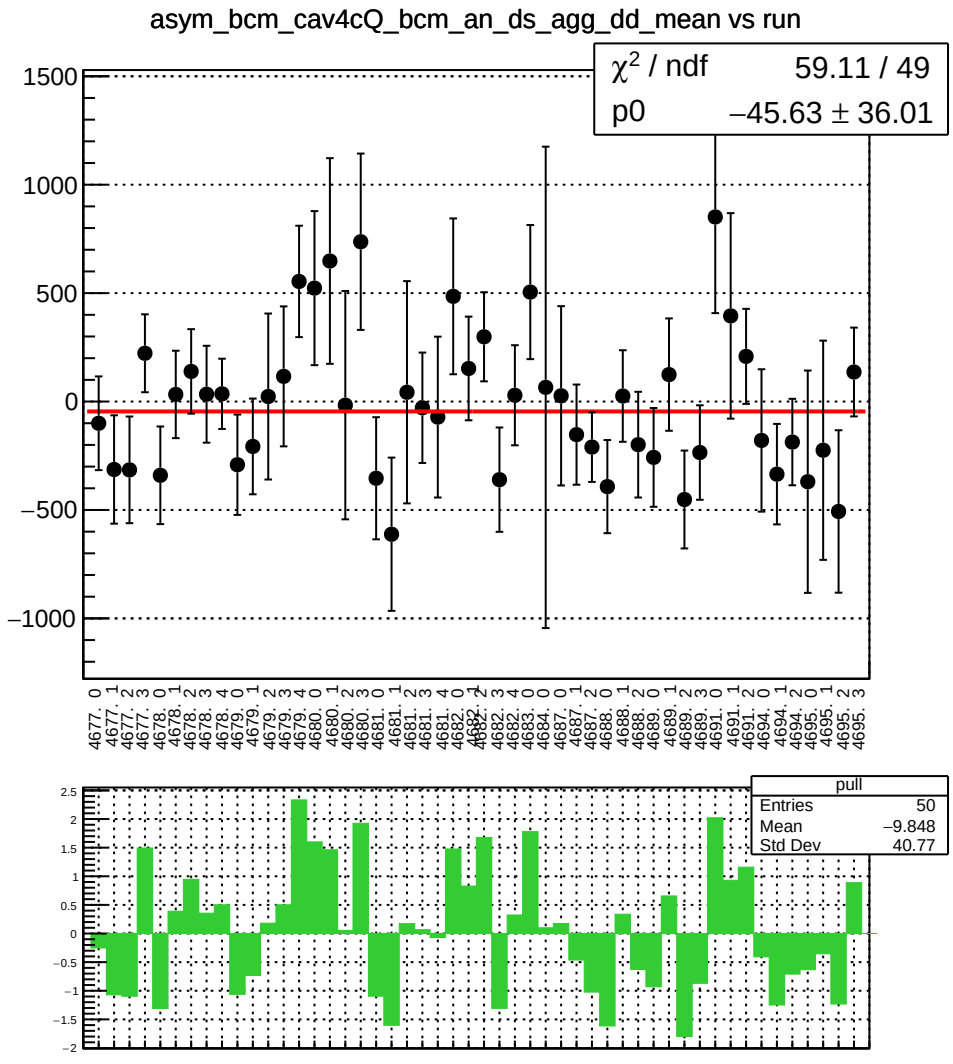
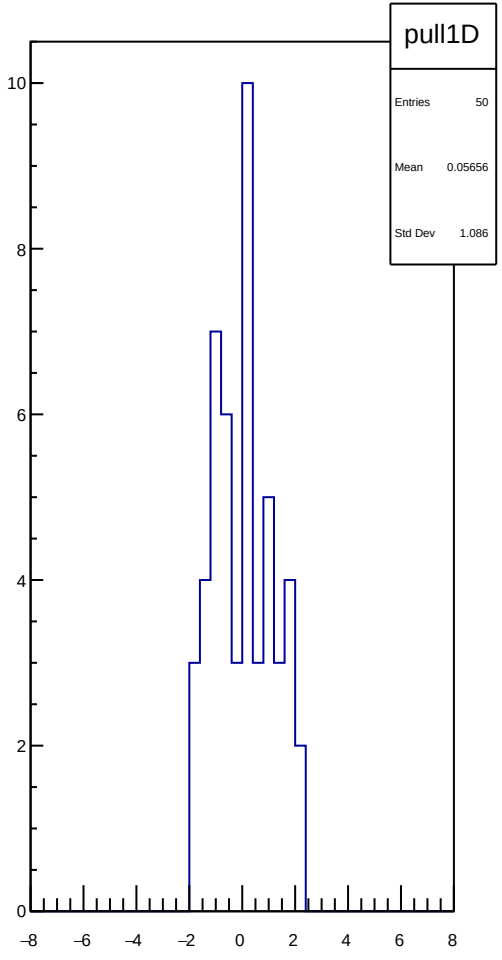
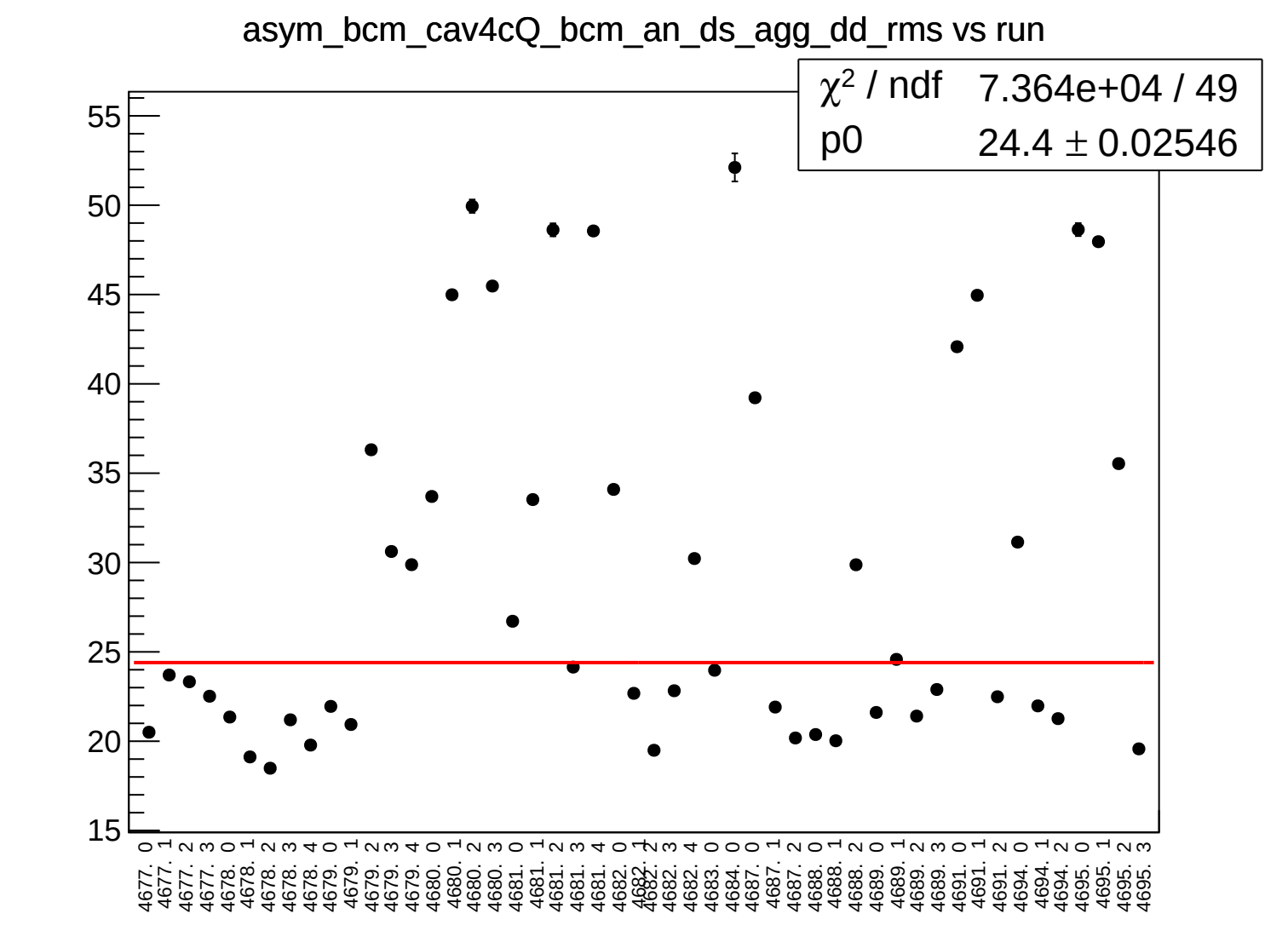
4695. 2
4695. 3


asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 59.11 / 49
p0 −45.63 ± 36.01
pull
Entries 50
Mean −9.848
Std Dev 40.77


pull1D
Entries 50
Mean 0.05656
Std Dev 1.086


asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 7.364e+04 / 49
p0 24.4 ± 0.02546
55
50
45
40
35
30
25
20
15
4677. 0
4677. 1
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4678. 0
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4678. 2
4678. 3
4678. 4
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4679. 3
4679. 4
4680. 0
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4680. 2
4680. 3
4681. 0
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4681. 2
4681. 3
4681. 4
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4682. 2
4682. 3
4682. 4
4683. 0
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4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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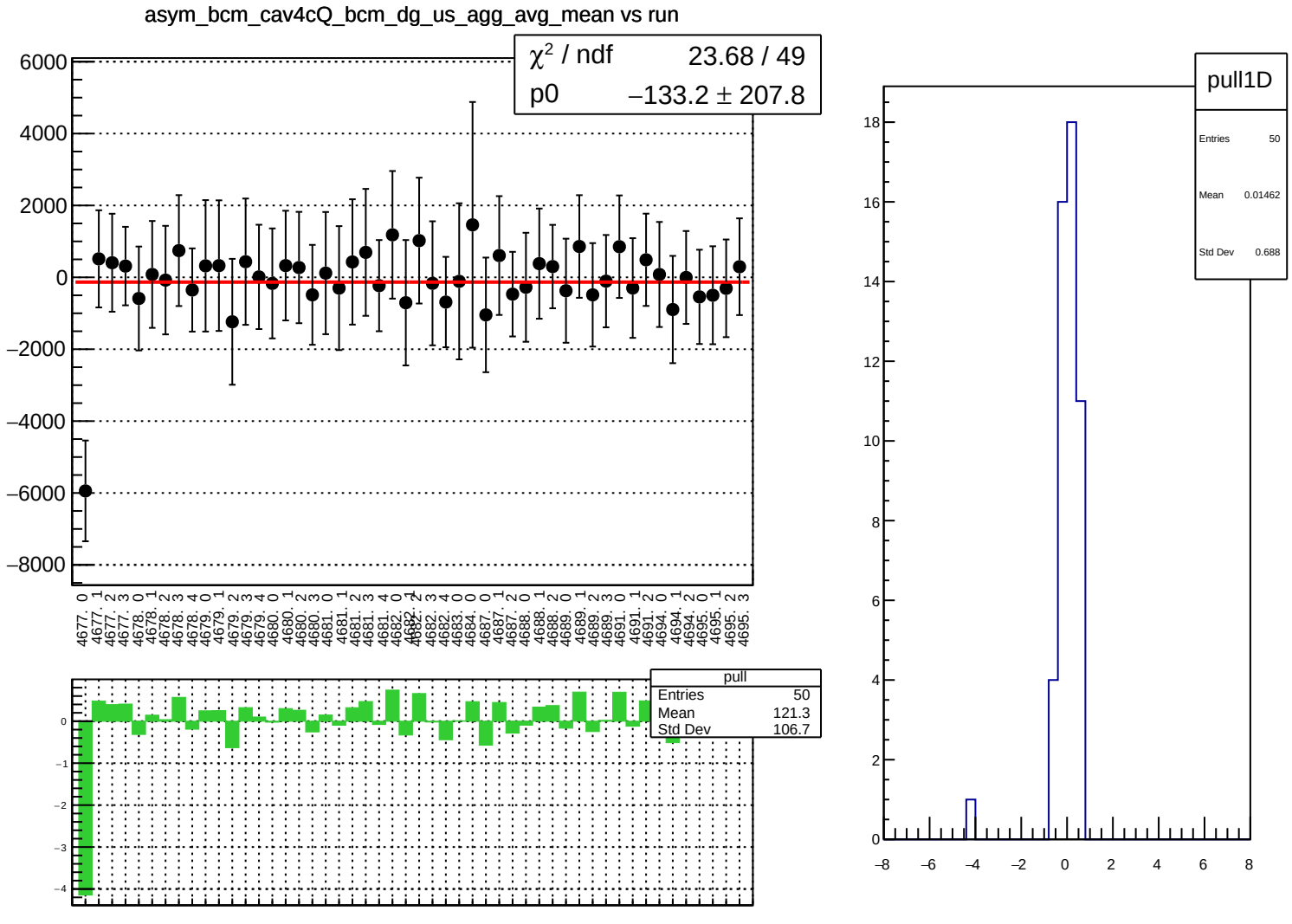
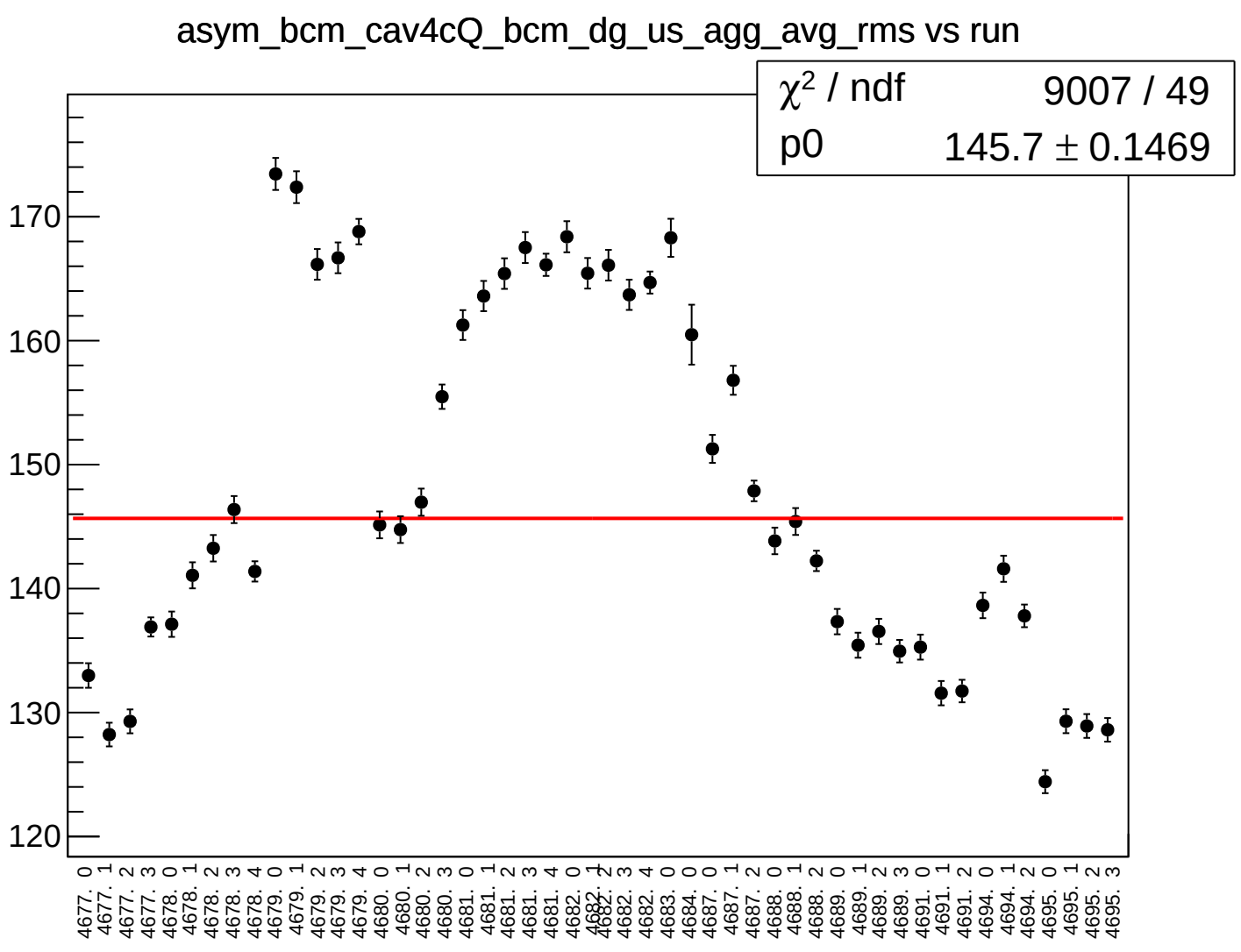
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 23.68 / 49
p0 −133.2 ± 207.8
pull
Entries 50
Mean 121.3
Std Dev 106.7
pull1D
Entries 50
Mean 0.01462
Std Dev 0.688


asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 9007 / 49
p0 145.7 ± 0.1469
170
160
150
140
130
120
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4677. 3
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4678. 1
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4678. 4
4679. 0
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4679. 2
4679. 3
4679. 4
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4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
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4687. 1
4687. 2
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4689. 3
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4691. 2
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4694. 2
4695. 0
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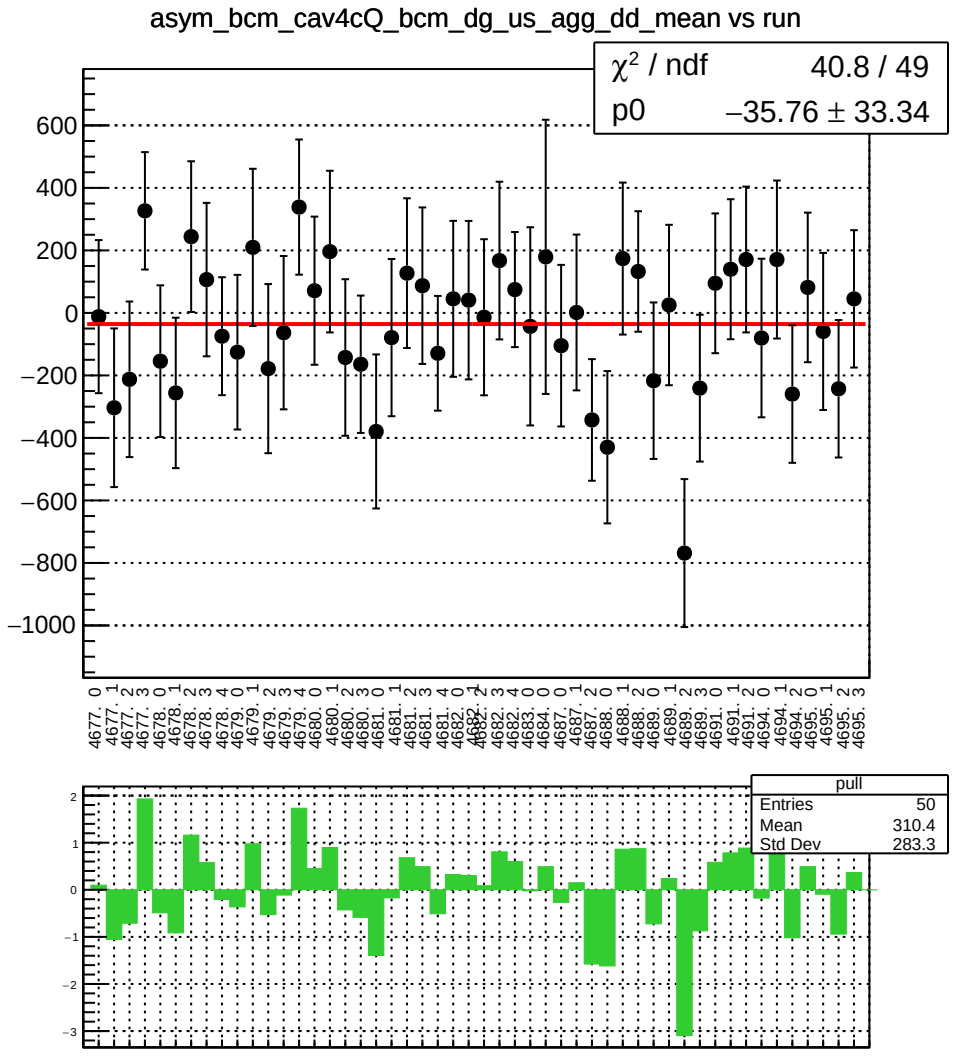
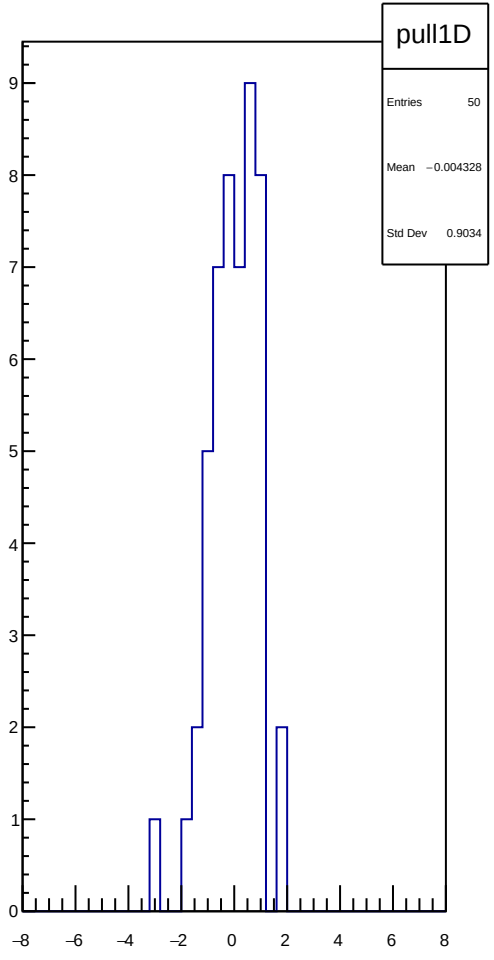
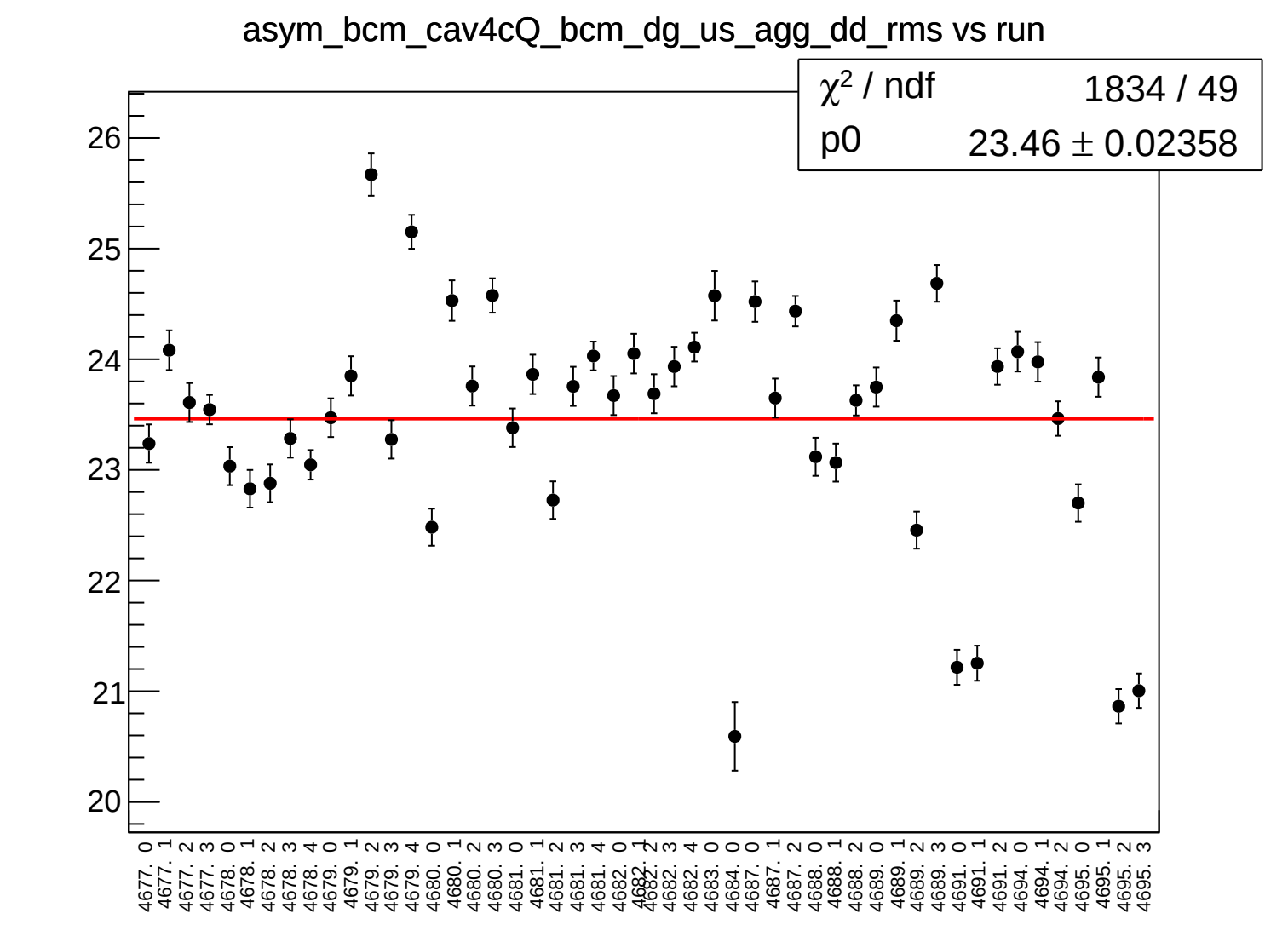
4695. 2
4695. 3


asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 40.8 / 49
p0 −35.76 ± 33.34
pull
Entries 50
Mean 310.4
Std Dev 283.3


pull1D
Entries 50
Mean −0.004328
Std Dev 0.9034


asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1834 / 49
p0 23.46 ± 0.02358
26
25
24
23
22
21
20
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
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4681. 3
4681. 4
4682. 0
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4689. 3
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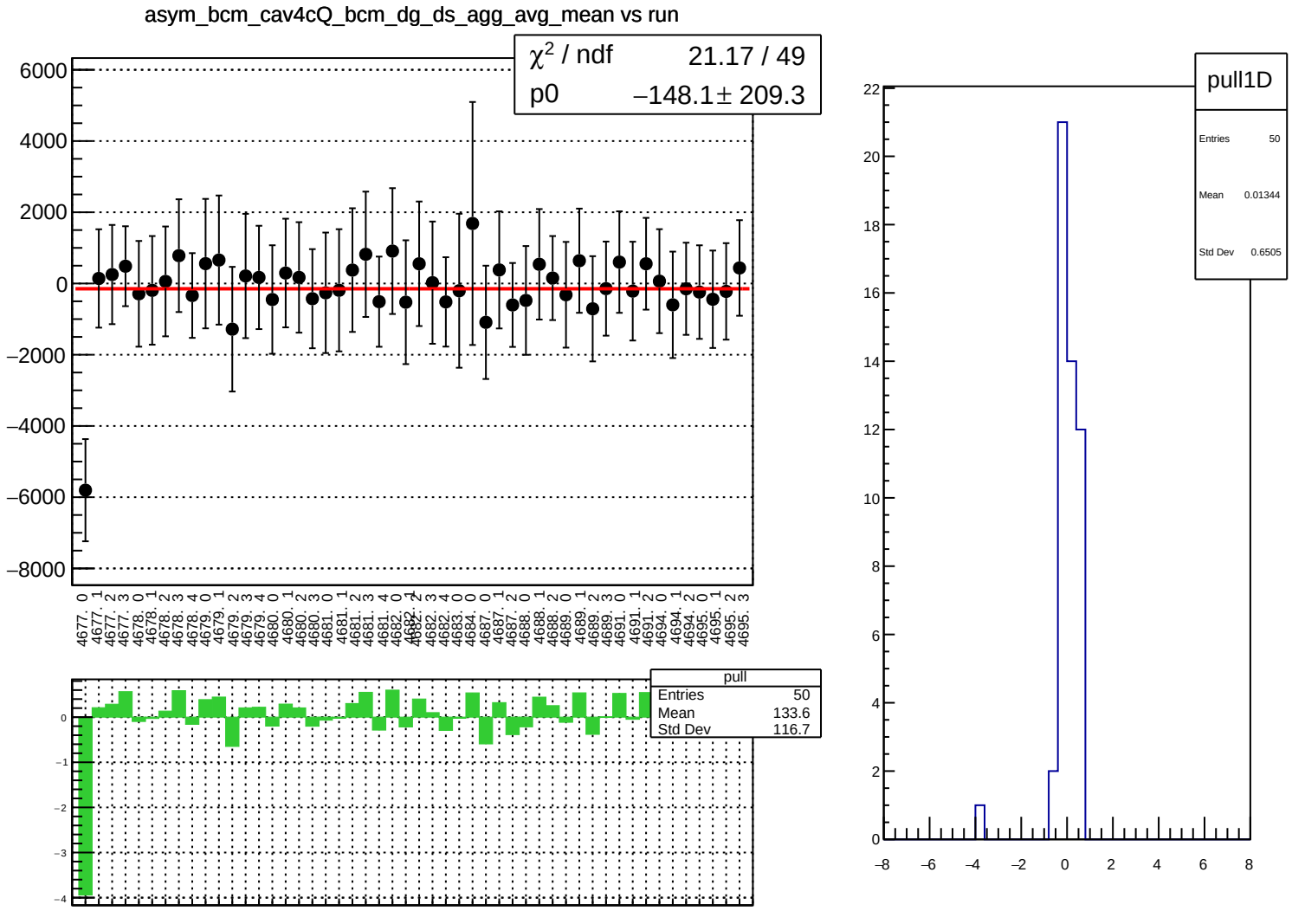
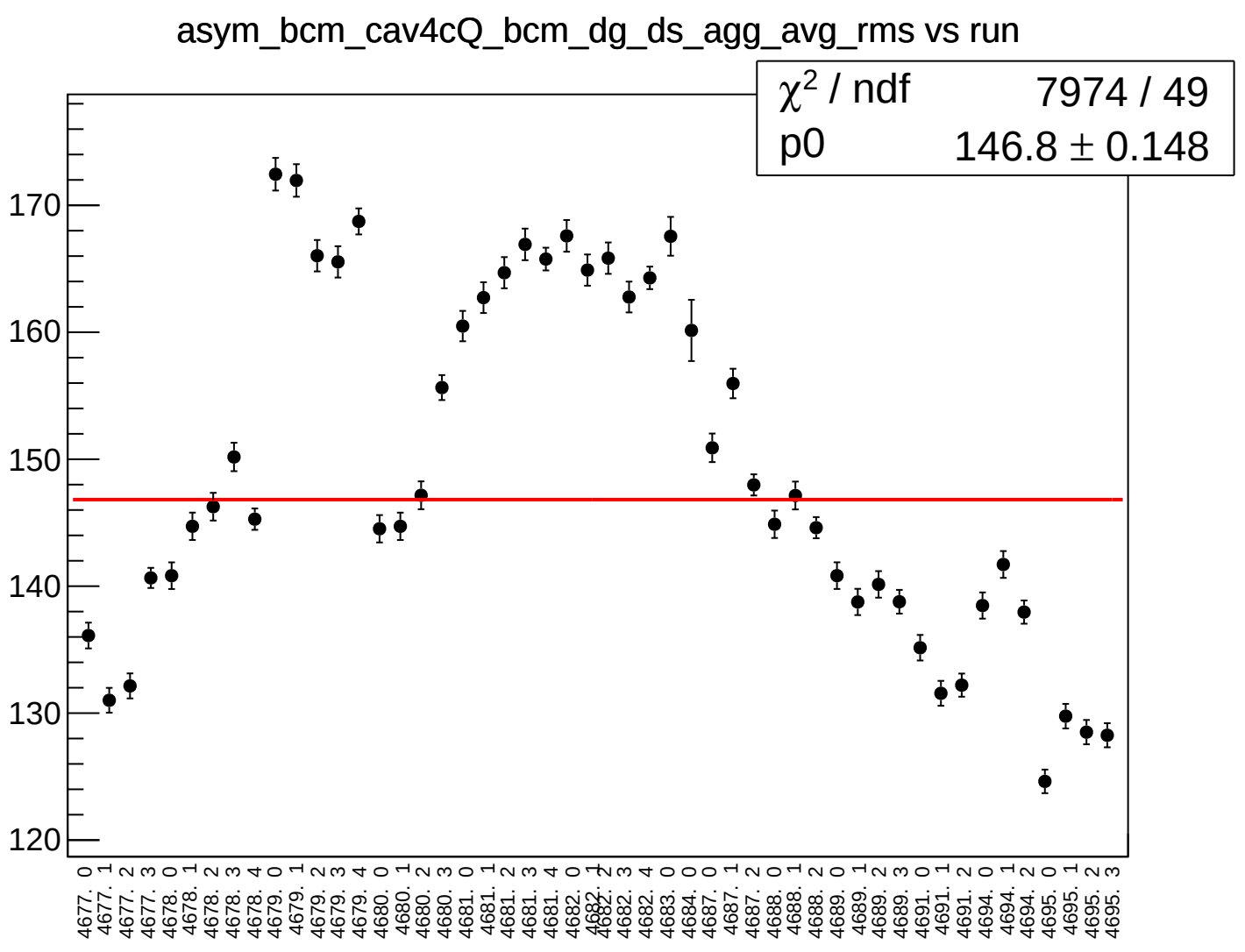
4695. 2
4695. 3


asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 21.17 / 49
p0 −148.1± 209.3
pull
Entries 50
Mean 133.6
Std Dev 116.7
pull1D
Entries 50
Mean 0.01344
Std Dev 0.6505


asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 7974 / 49
p0 146.8 ± 0.148
170
160
150
140
130
120
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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4691. 2
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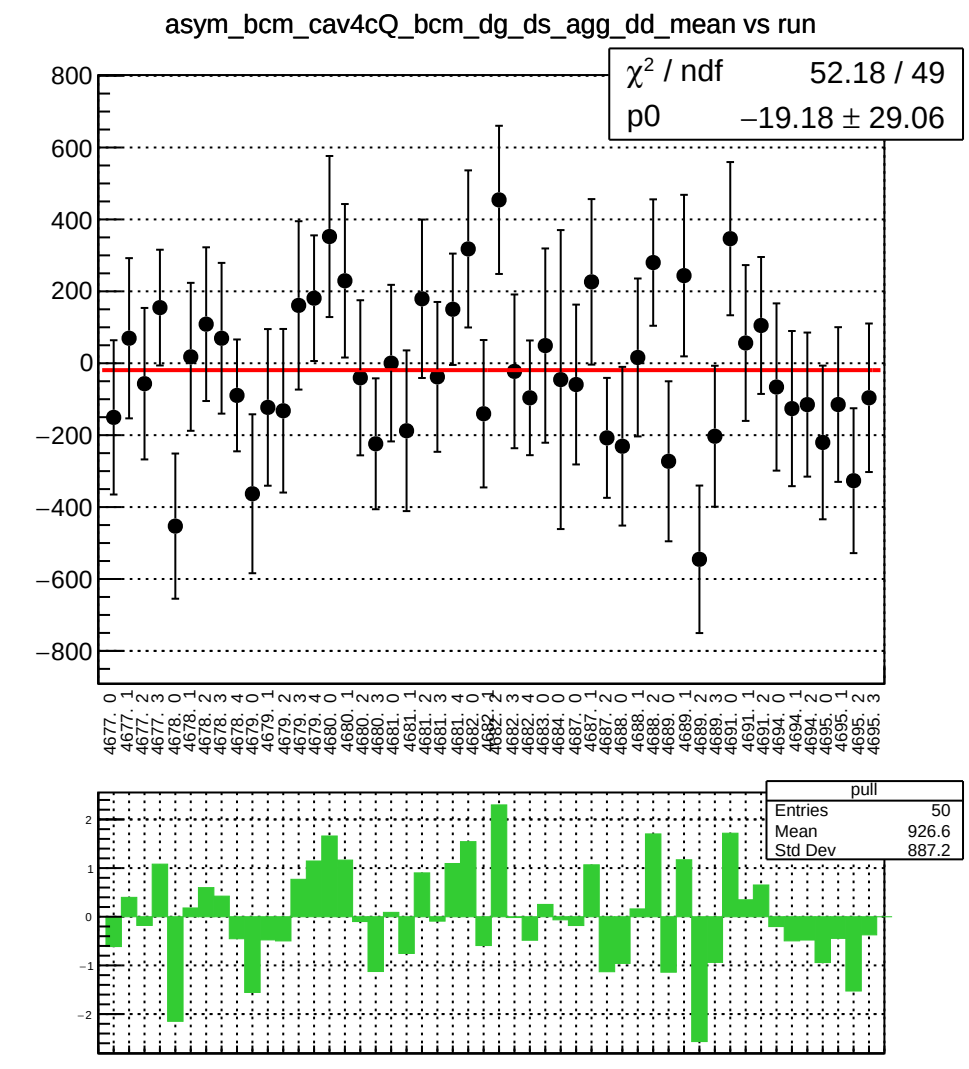
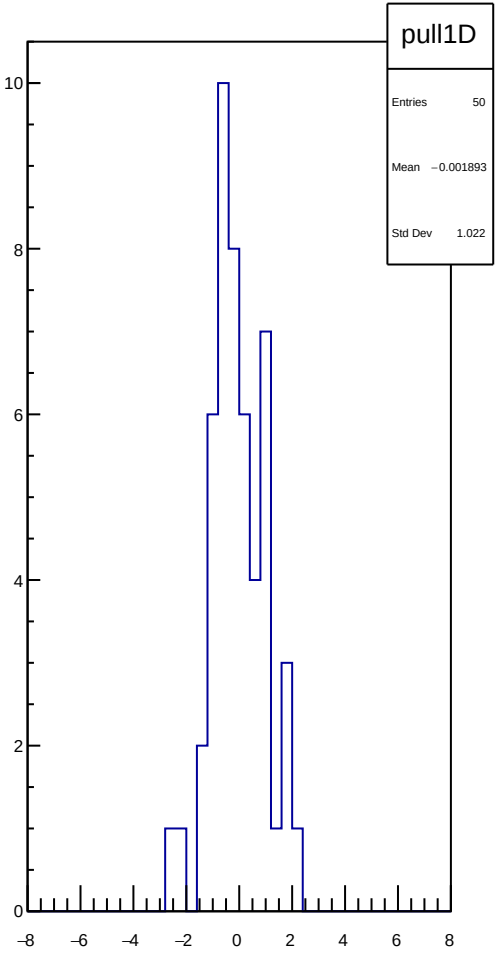
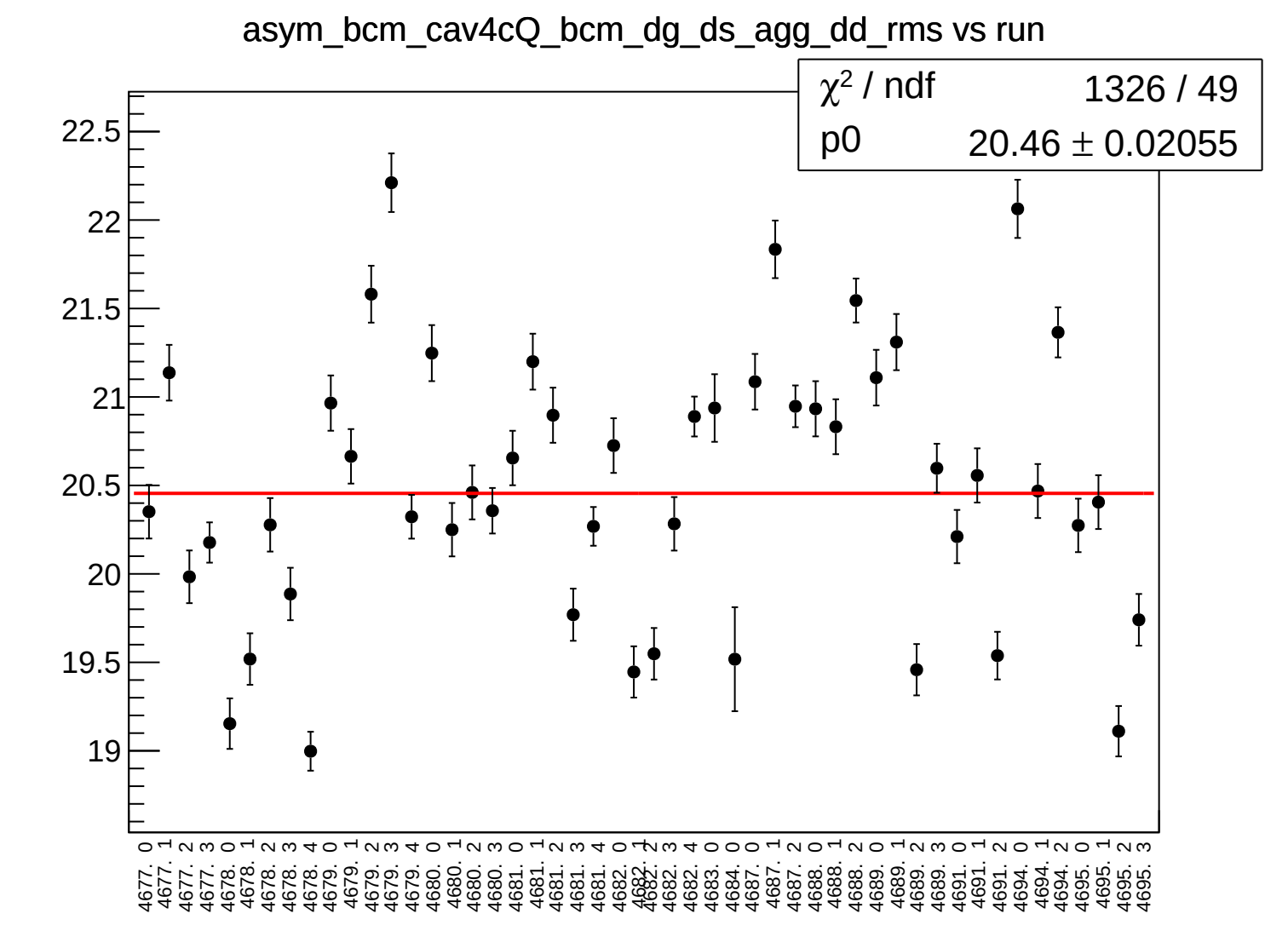
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 52.18 / 49
p0 −19.18 ± 29.06
pull
Entries 50
Mean 926.6
Std Dev 887.2


pull1D
Entries 50
Mean −0.001893
Std Dev 1.022


asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1326 / 49
p0 20.46 ± 0.02055
22.5
22
21.5
21
20.5
20
19.5
19
4677. 0
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4677. 3
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4678. 2
4678. 3
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4679. 2
4679. 3
4679. 4
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4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
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4687. 0
4687. 1
4687. 2
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4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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4691. 2
4694. 0
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4694. 2
4695. 0
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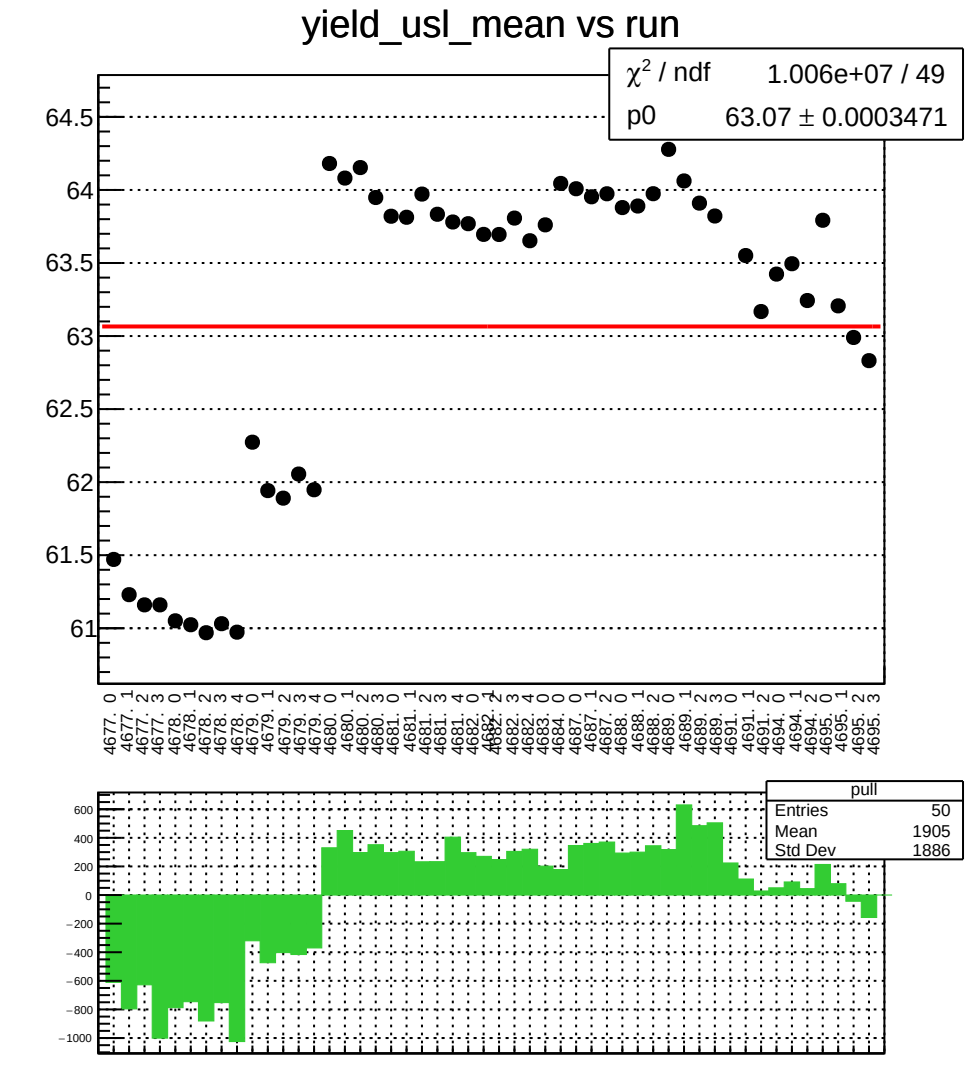
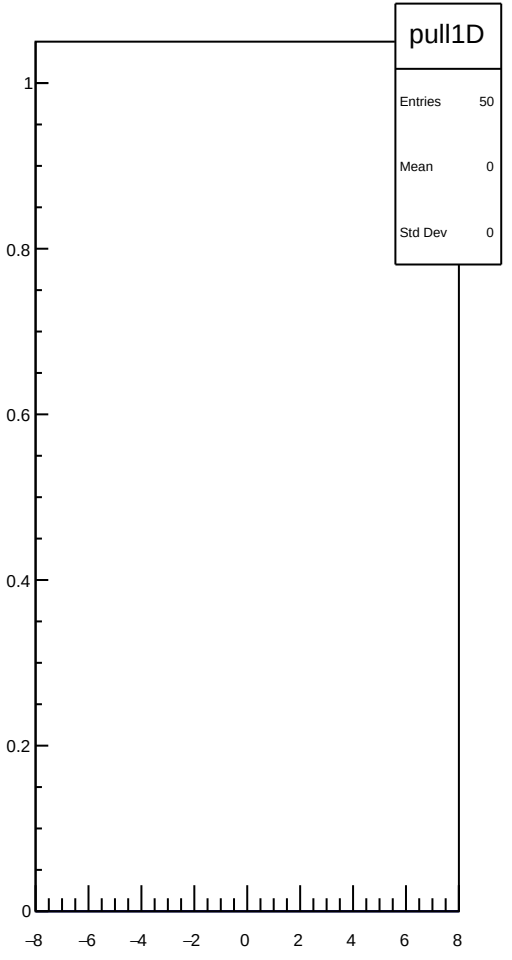
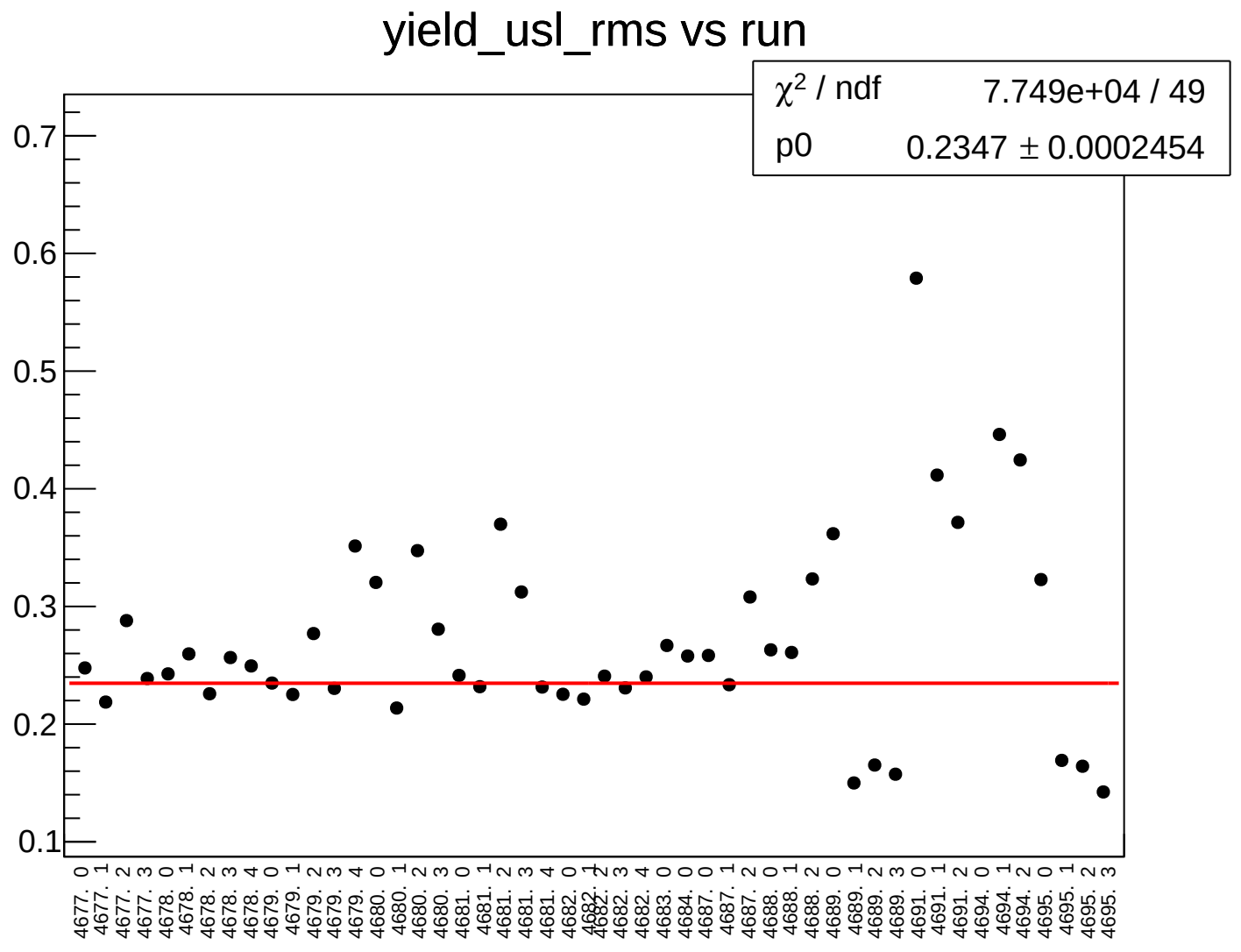
4695. 2
4695. 3


yield_usl_mean vs run
χ² / ndf 1.006e+07 / 49
p0 63.07 ± 0.0003471
64.5
64
63.5
63
62.5
62
61.5
61
pull
Entries 50
Mean 1905
Std Dev 1886
600
400
200
0
−200
−400
−600
−800
−1000


pull1D
Entries 50
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_usl_rms vs run
χ2 / ndf 7.749e+04 / 49
p0 0.2347 ± 0.0002454
0.7
0.6
0.5
0.4
0.3
0.2
0.1
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
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4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
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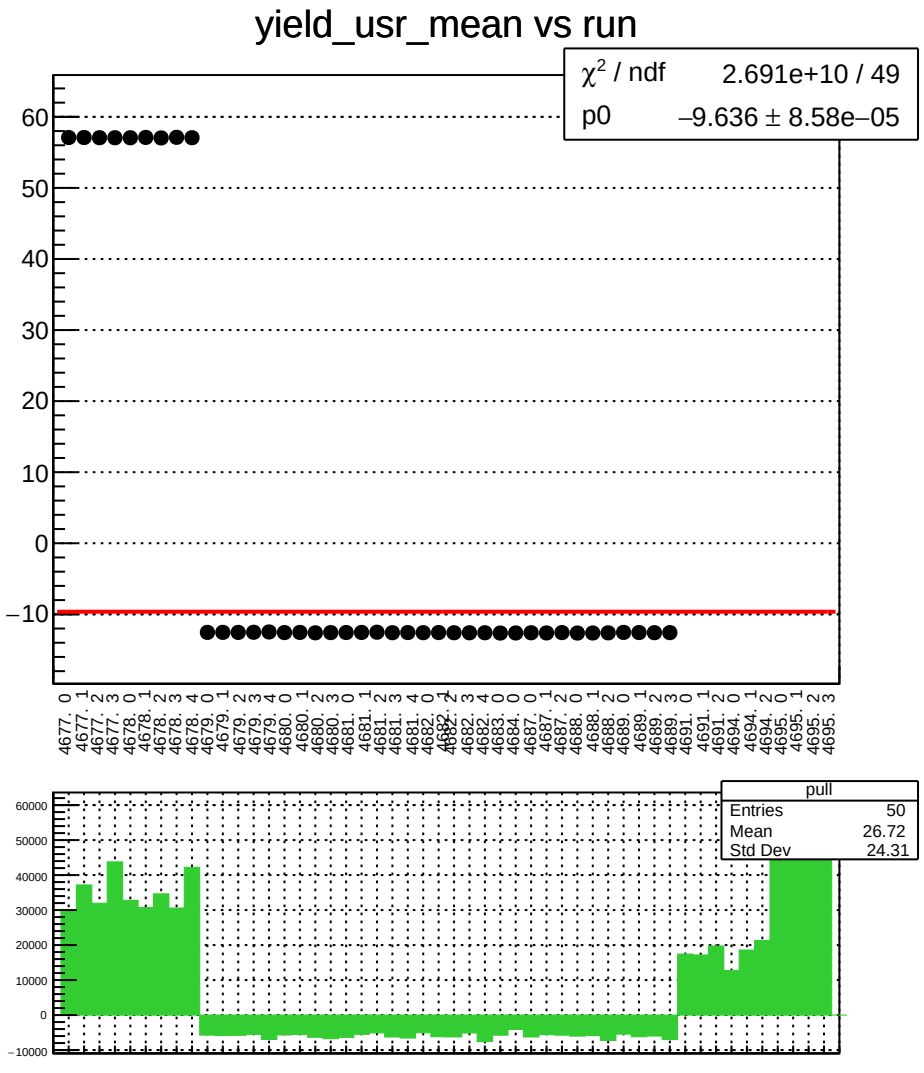
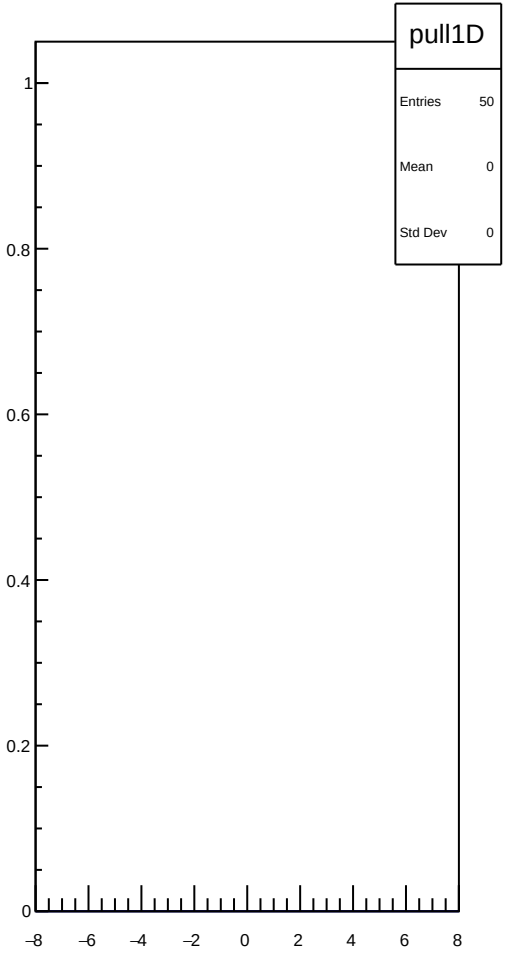
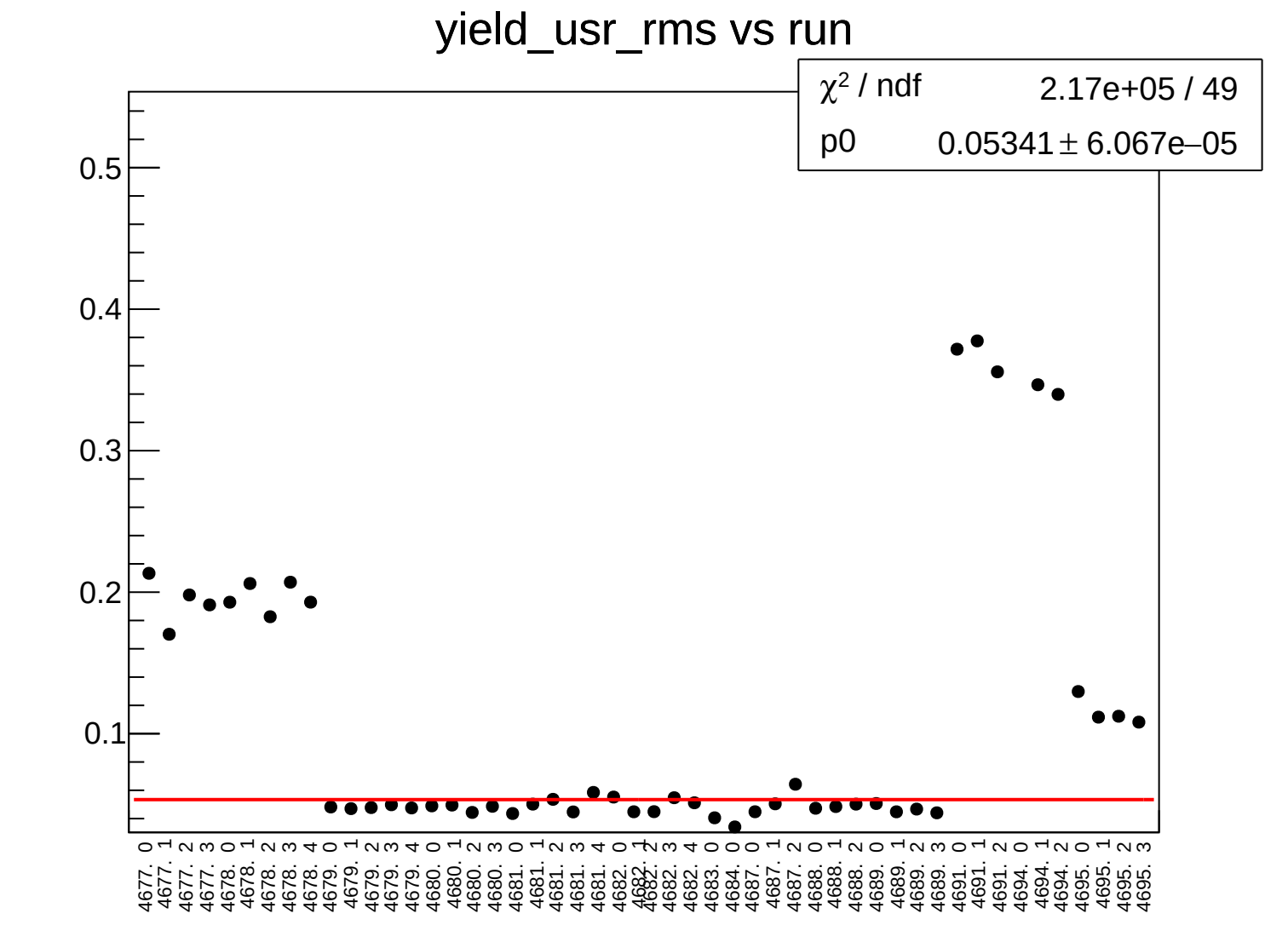
4695. 2
4695. 3


yield_usr_mean vs run
χ² / ndf 2.691e+10 / 49
p0 −9.636 ± 8.58e−05
60
50
40
30
20
10
0
−10
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 26.72
Std Dev 24.31
60000
50000
40000
30000
20000
10000
0
−10000


pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_usr_rms vs run
χ² / ndf 2.17e+05 / 49
p0 0.05341 ± 6.067e−05
0.5
0.4
0.3
0.2
0.1
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
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4688. 0
4688. 1
4688. 2
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4689. 1
4689. 2
4689. 3
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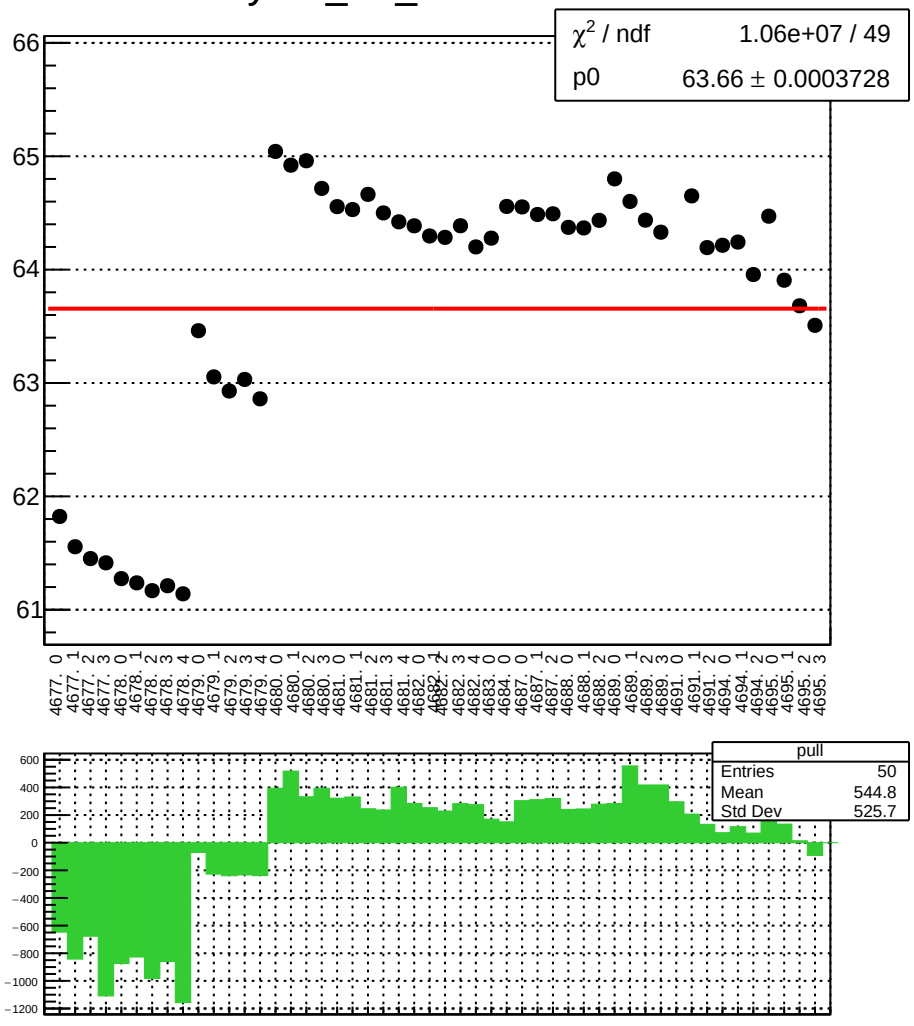
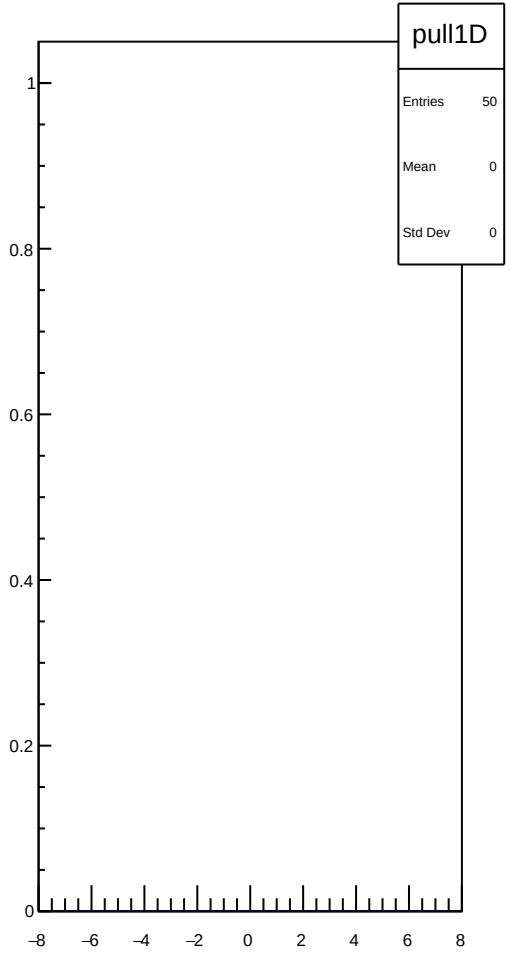
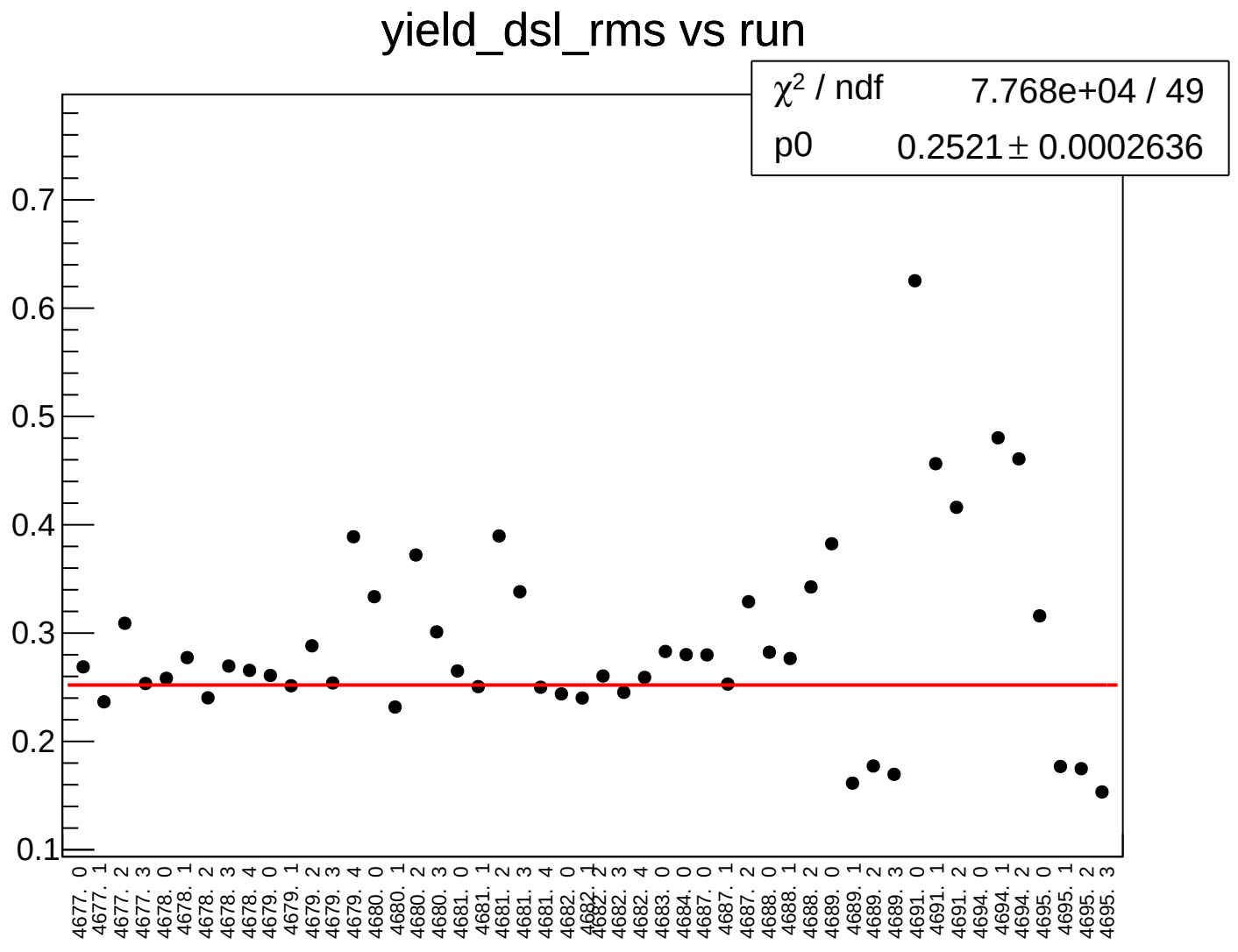
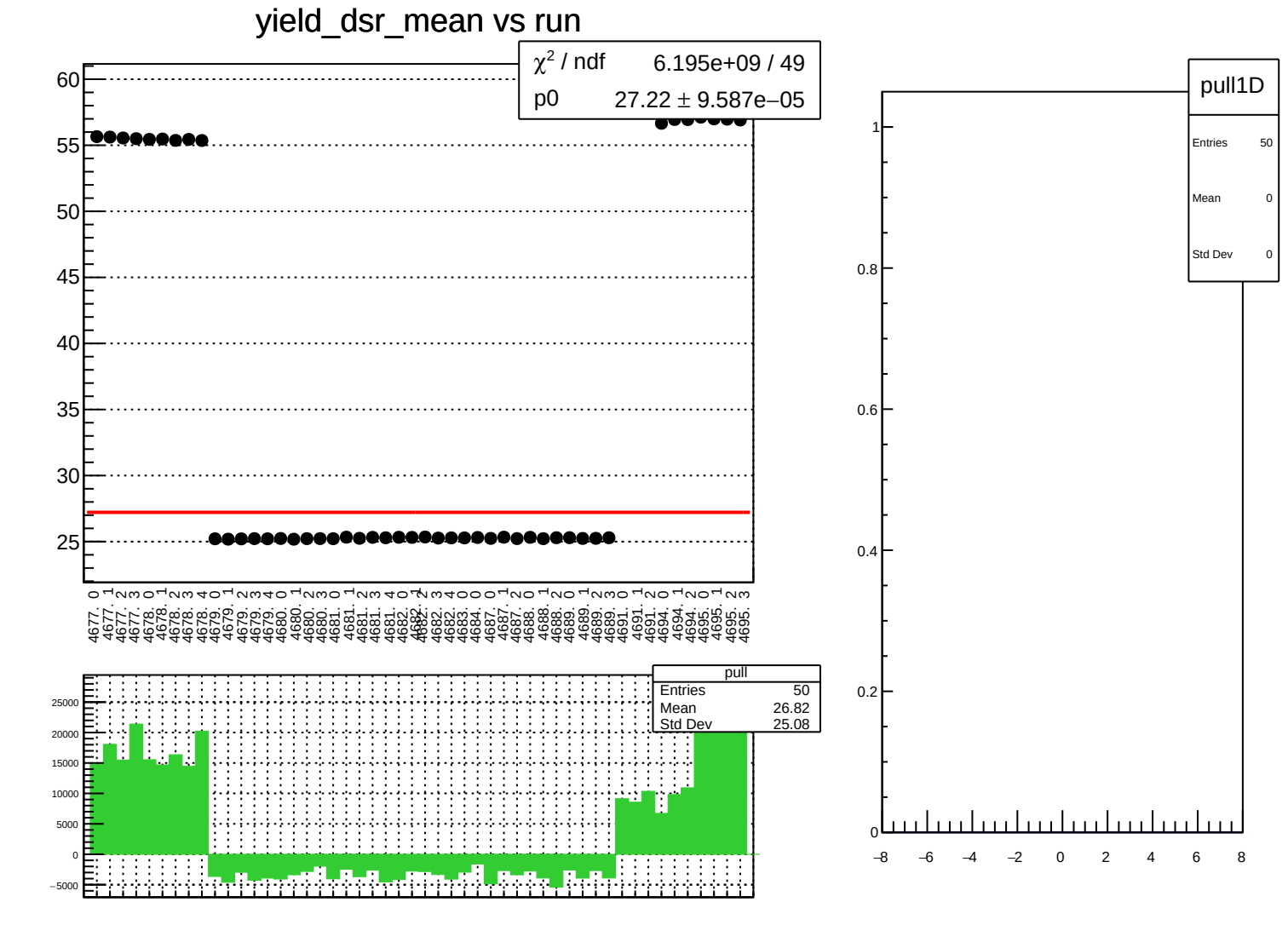
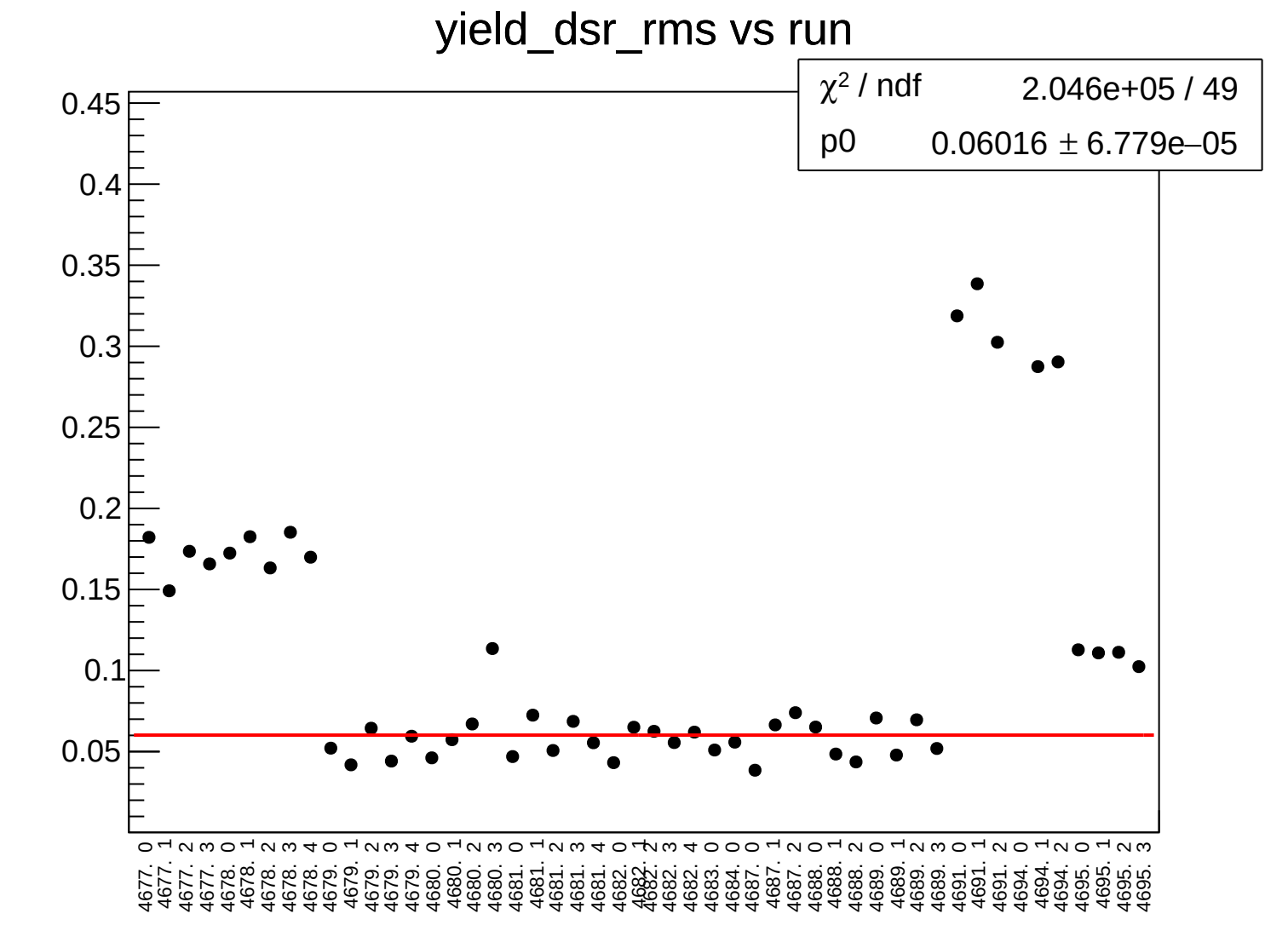
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


yield_dsl_mean vs run
χ² / ndf 1.06e+07 / 49
p0 63.66 ± 0.0003728
pull
Entries 50
Mean 544.8
Std Dev 525.7


pull1D
Entries 50
Mean 0
Std Dev 0


yield_dsl_rms vs run
χ² / ndf 7.768e+04 / 49
p0 0.2521 ± 0.0002636
0.7
0.6
0.5
0.4
0.3
0.2
0.1
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


yield_dsr_mean vs run
χ² / ndf 6.195e+09 / 49
p0 27.22 ± 9.587e−05
pull
Entries 50
Mean 26.82
Std Dev 25.08
pull1D
Entries 50
Mean 0
Std Dev 0


yield_dsr_rms vs run
χ² / ndf 2.046e+05 / 49
p0 0.06016 ± 6.779e–05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4694. 1
4694. 2
4695. 0
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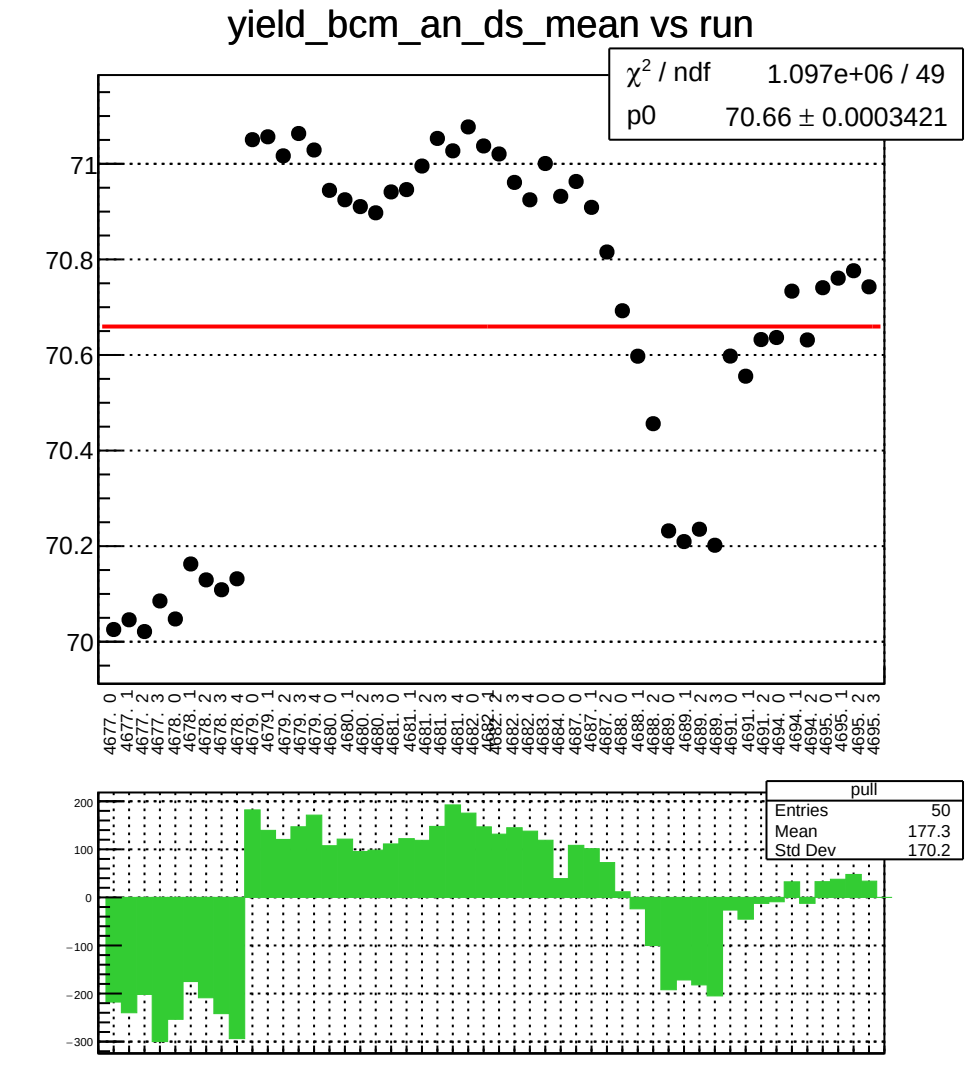
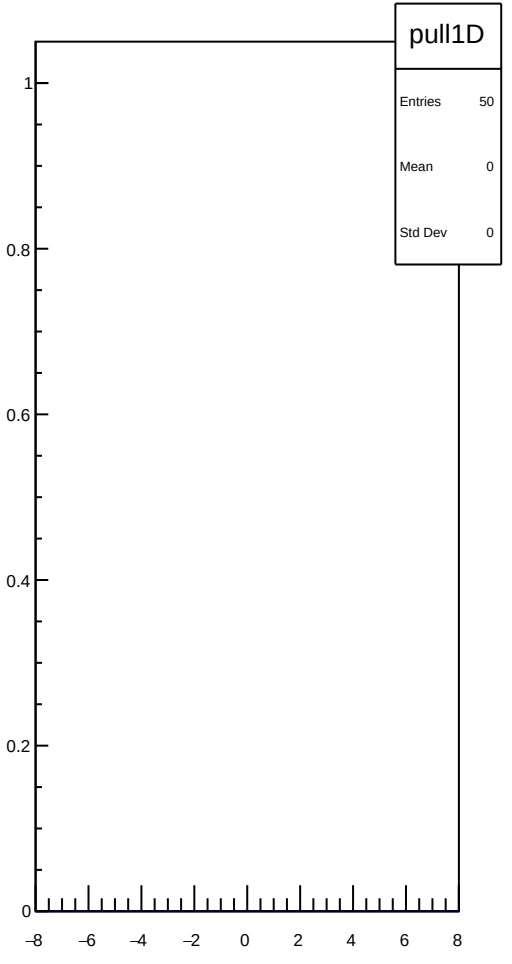
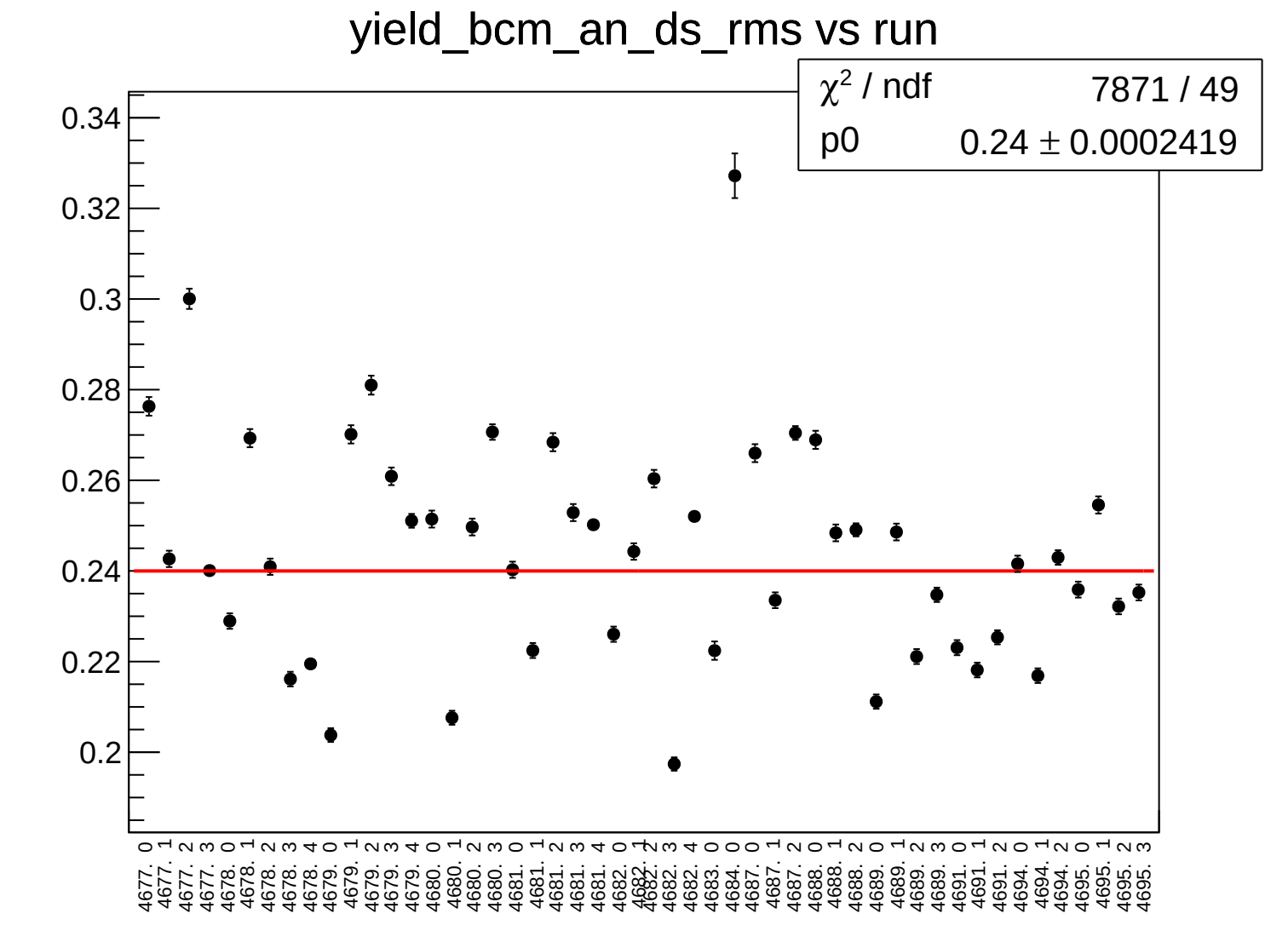
4695. 2
4695. 3


yield_bcm_an_ds_mean vs run
χ² / ndf 1.097e+06 / 49
p0 70.66 ± 0.0003421
71
70.8
70.6
70.4
70.2
70
pull
Entries 50
Mean 177.3
Std Dev 170.2
200
100
0
−100
−200
−300


pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_an_ds_rms vs run
χ² / ndf 7871 / 49
p0 0.24 ± 0.0002419
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4694. 2
4695. 0
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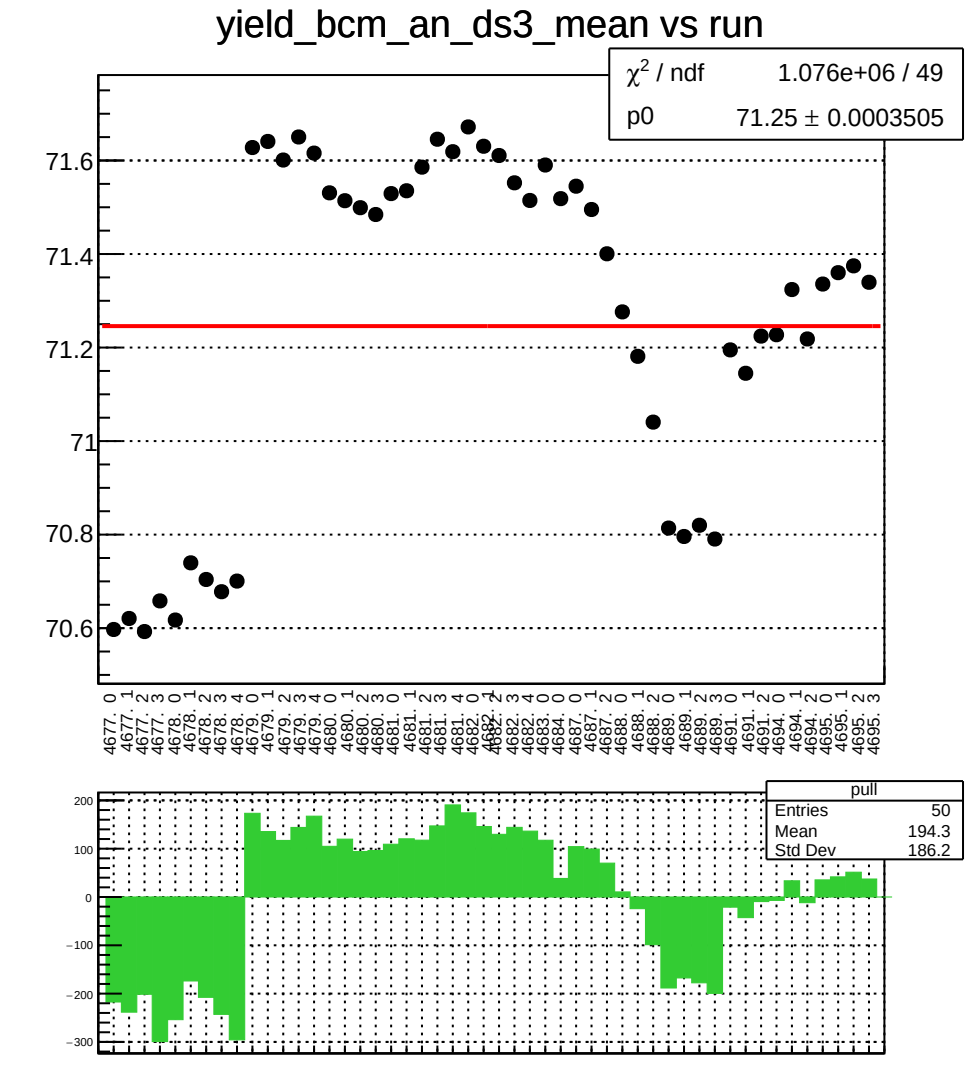
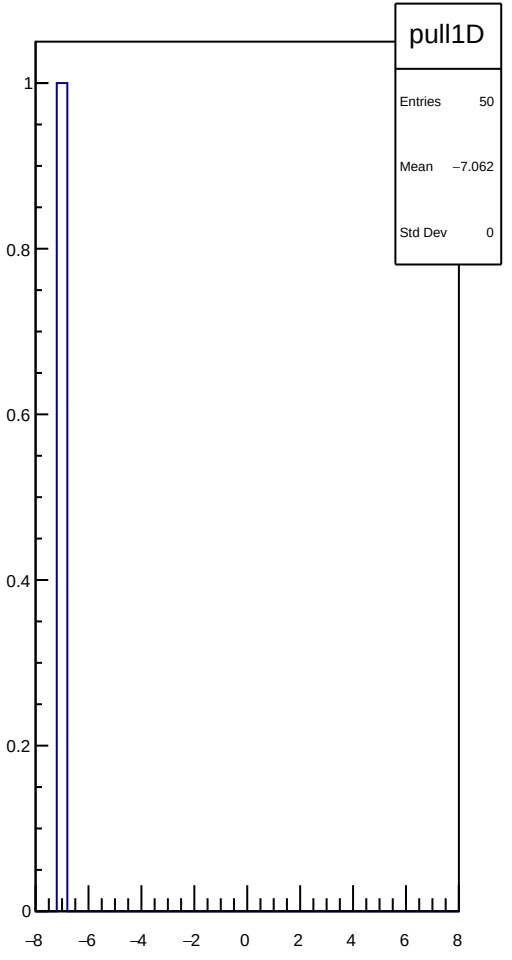
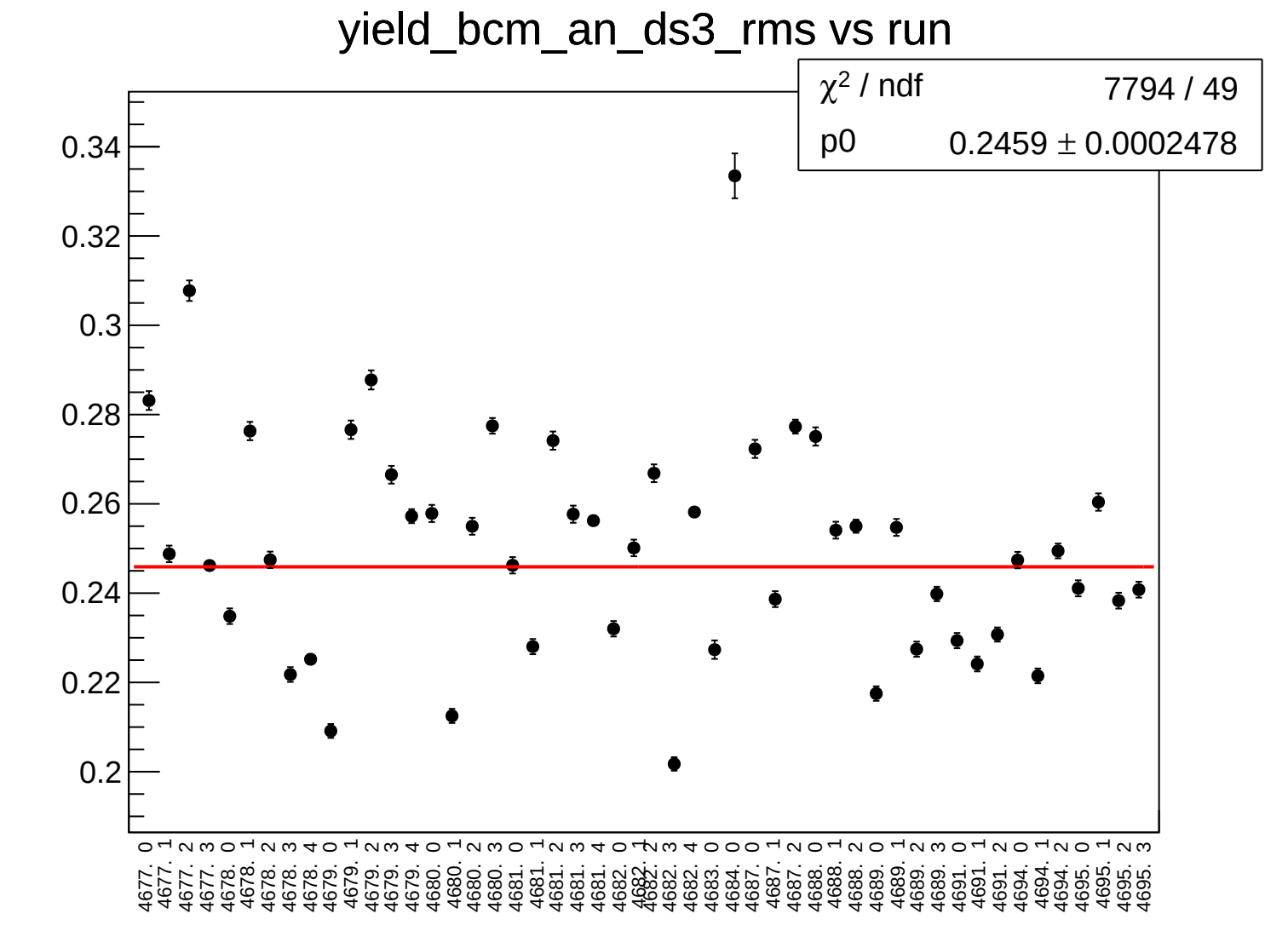
4695. 2
4695. 3


yield_bcm_an_ds3_mean vs run
χ² / ndf 1.076e+06 / 49
p0 71.25 ± 0.0003505
71.6
71.4
71.2
71
70.8
70.6
pull
Entries 50
Mean 194.3
Std Dev 186.2
200
100
0
−100
−200
−300


pull1D
Entries 50
Mean −7.062
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_an_ds3_rms vs run
χ² / ndf 7794 / 49
p0 0.2459 ± 0.0002478
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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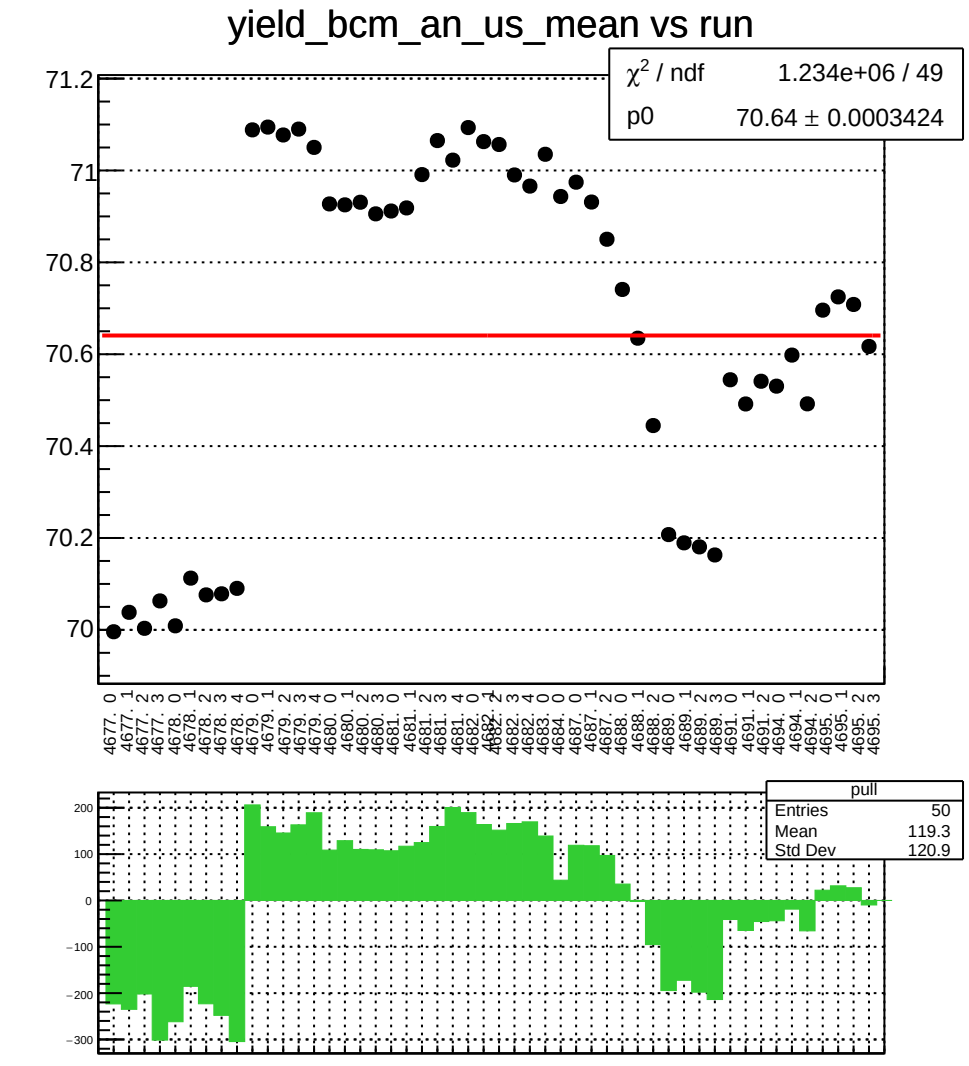
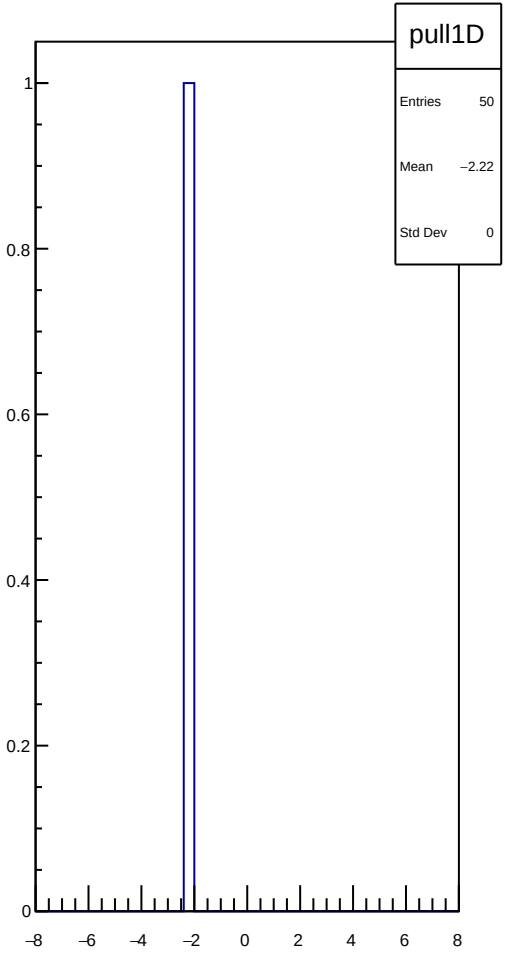
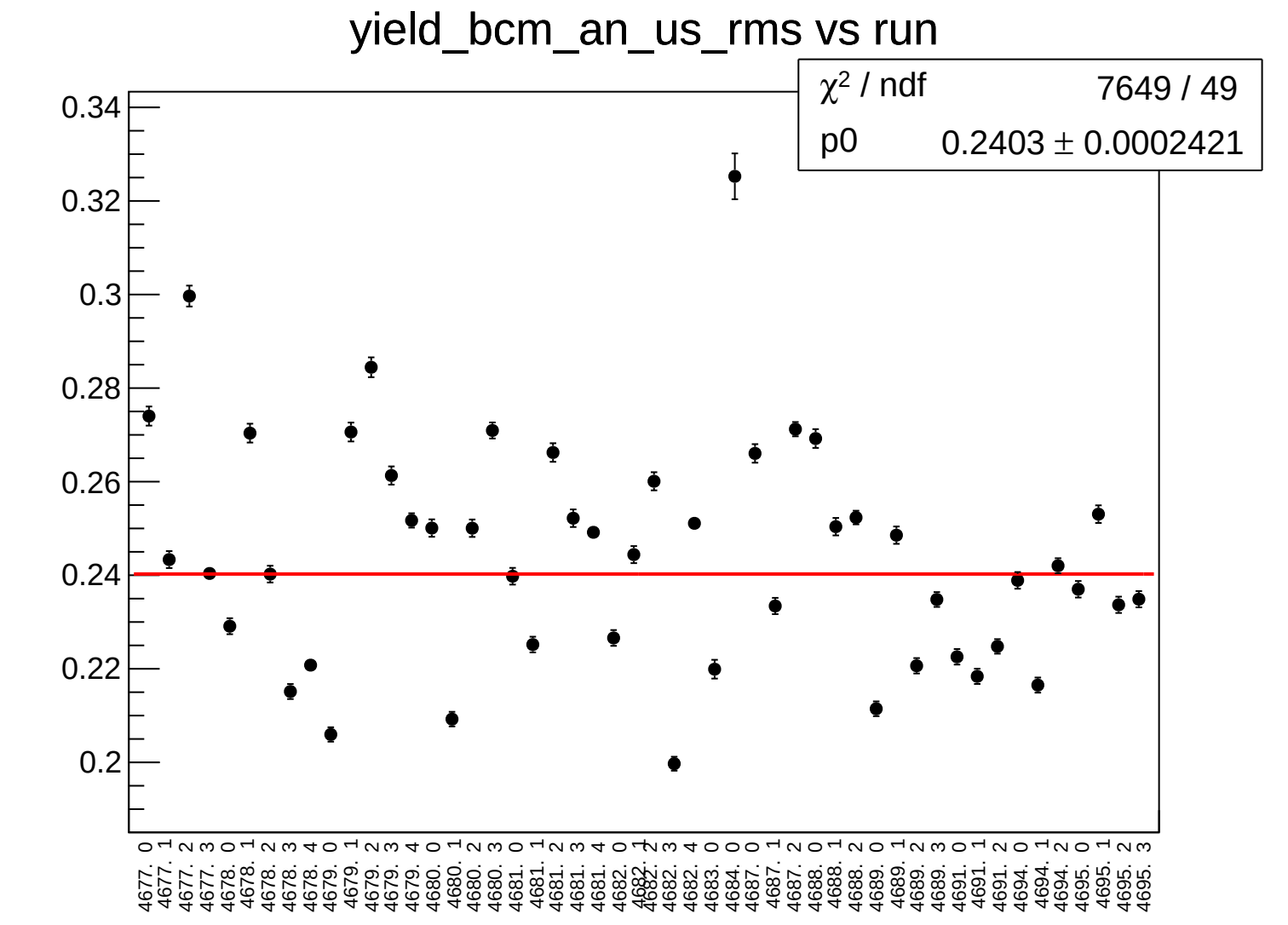
4695. 2
4695. 3


yield_bcm_an_us_mean vs run
χ² / ndf 1.234e+06 / 49
p0 70.64 ± 0.0003424
71.2
71
70.8
70.6
70.4
70.2
70
pull
Entries 50
Mean 119.3
Std Dev 120.9
200
100
0
−100
−200
−300


pull1D
Entries 50
Mean −2.22
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_an_us_rms vs run
χ² / ndf 7649 / 49
p0 0.2403 ± 0.0002421
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
4677. 0
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4678. 0
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4678. 4
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4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
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4688. 0
4688. 1
4688. 2
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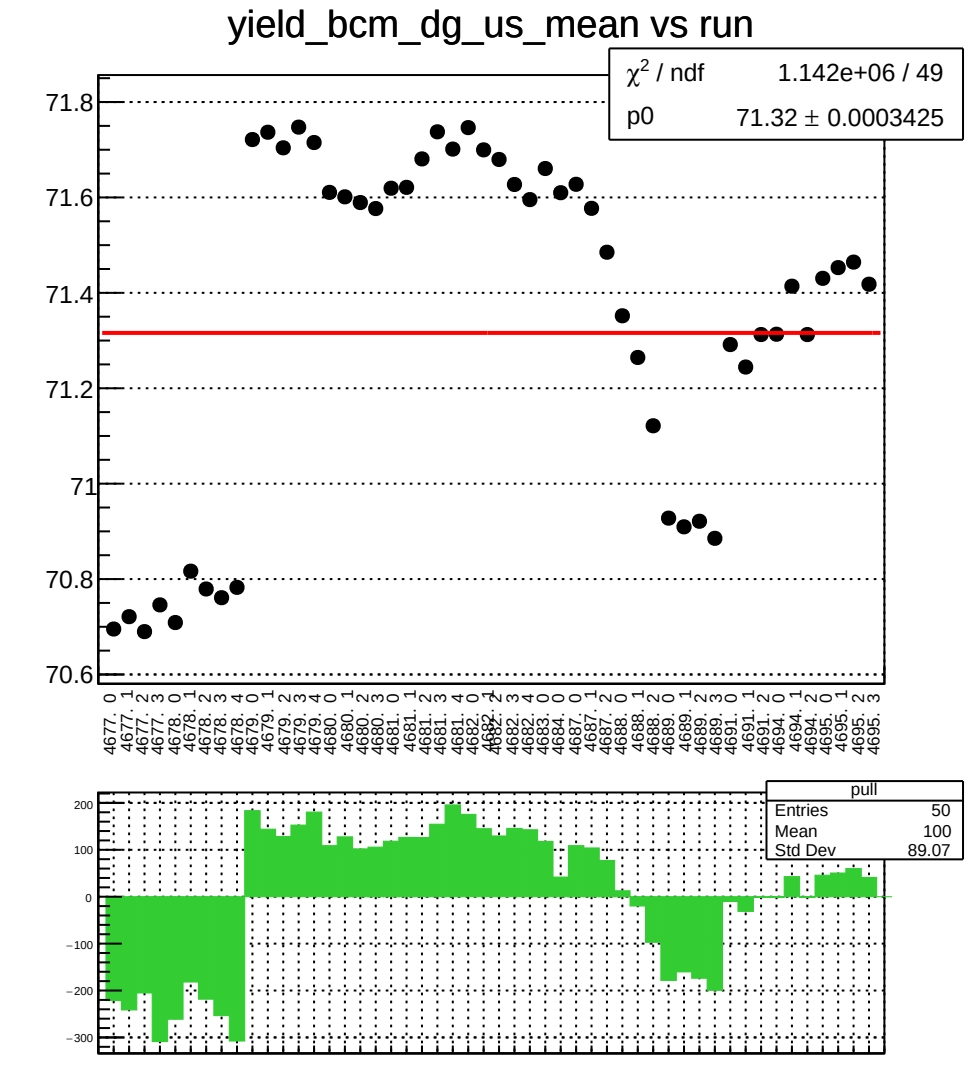
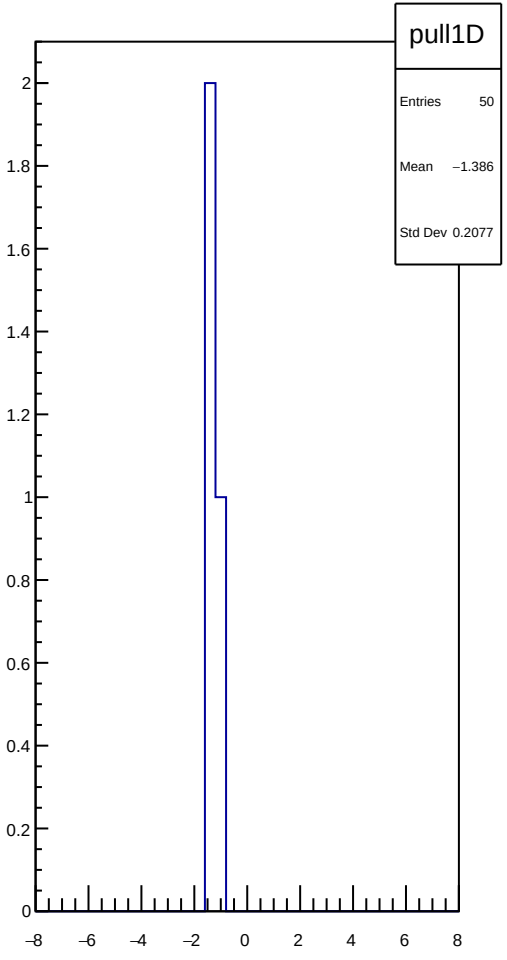
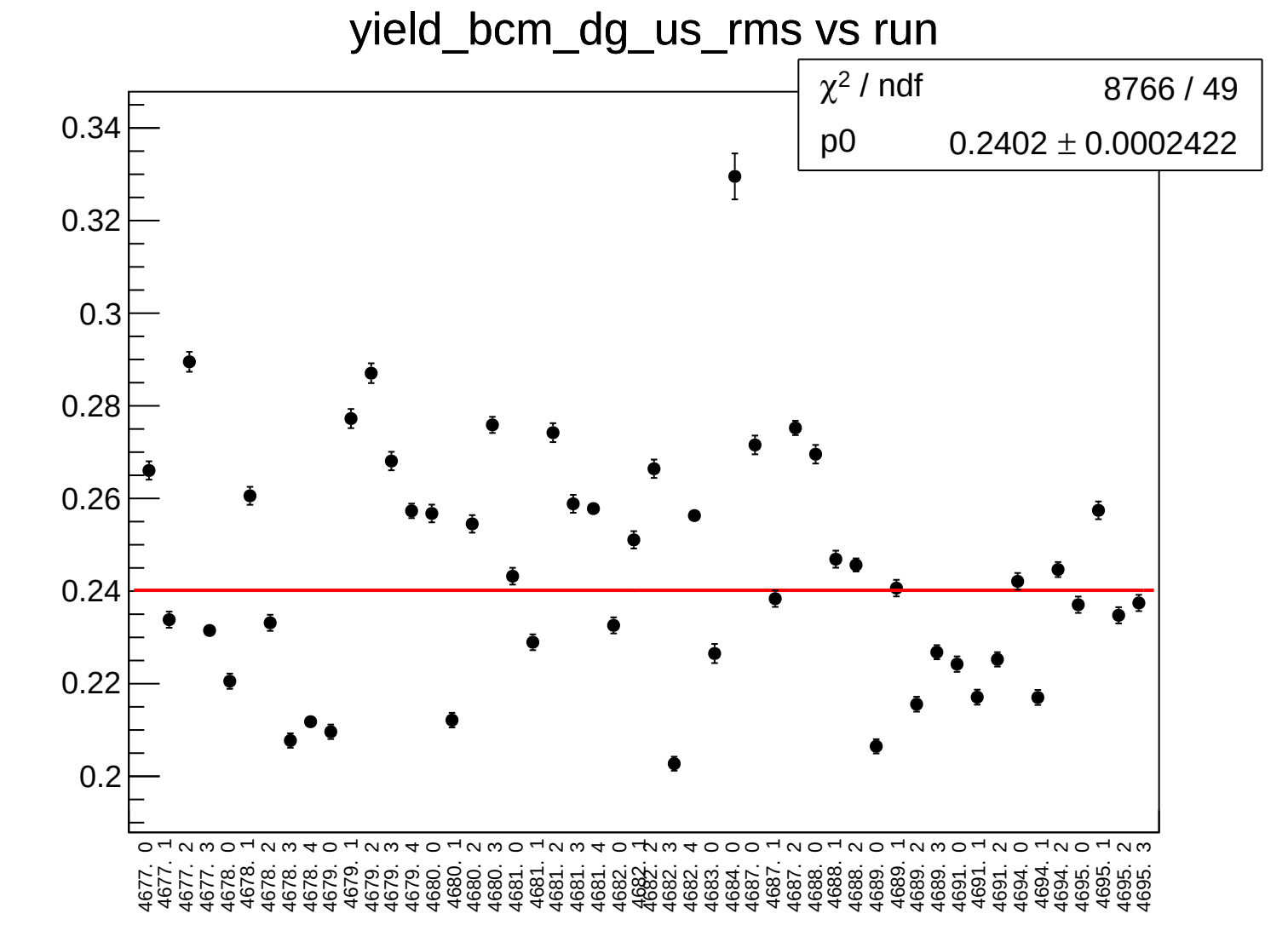
4695. 3


yield_bcm_dg_us_mean vs run
χ² / ndf 1.142e+06 / 49
p0 71.32 ± 0.0003425
71.8
71.6
71.4
71.2
71
70.8
70.6
pull
Entries 50
Mean 100
Std Dev 89.07
200
100
0
−100
−200
−300


pull1D
Entries 50
Mean −1.386
Std Dev 0.2077
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_dg_us_rms vs run
χ² / ndf 8766 / 49
p0 0.2402 ± 0.0002422
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
4677. 0
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4677. 2
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4678. 0
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4678. 2
4678. 3
4678. 4
4679. 0
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4680. 0
4680. 1
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4681. 4
4682. 0
4682. 1
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4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
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4688. 2
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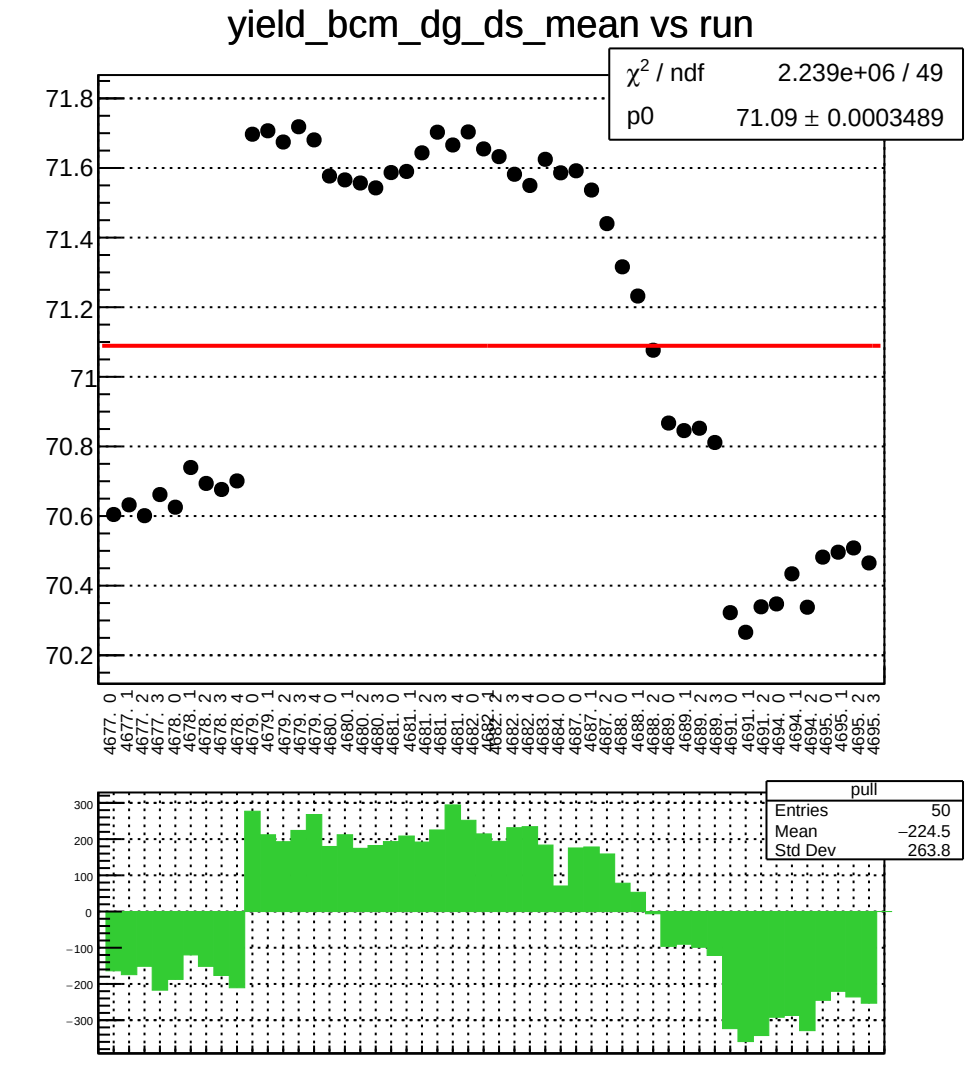
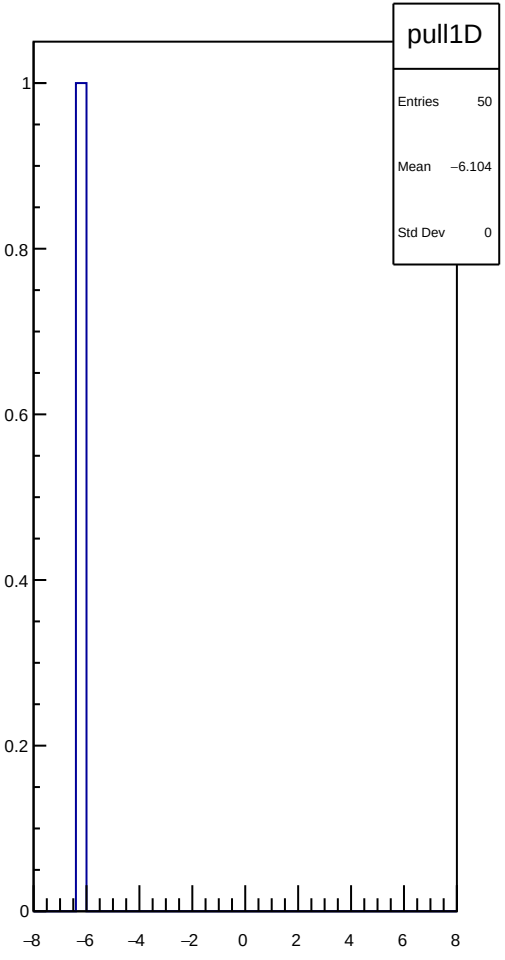
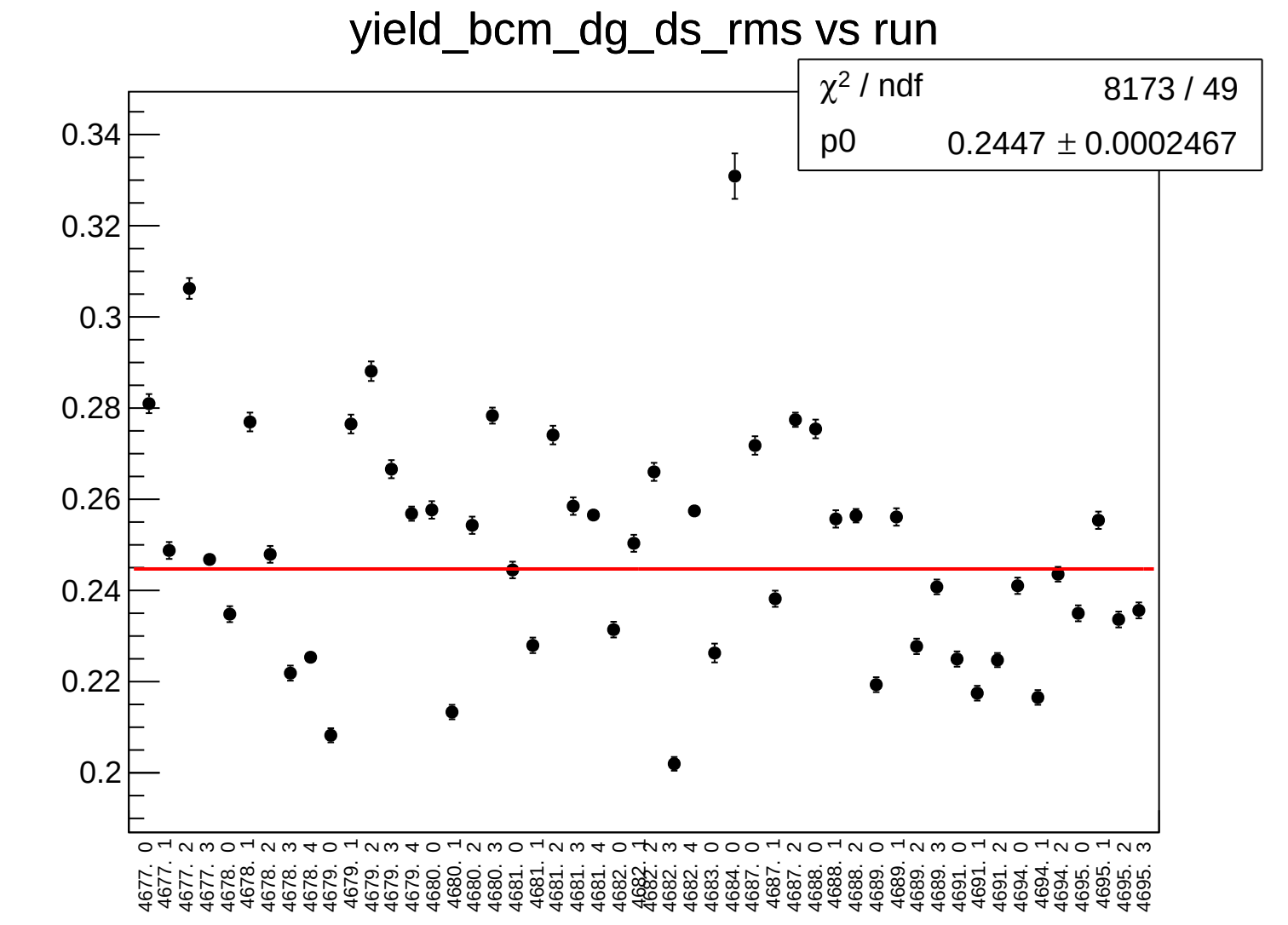
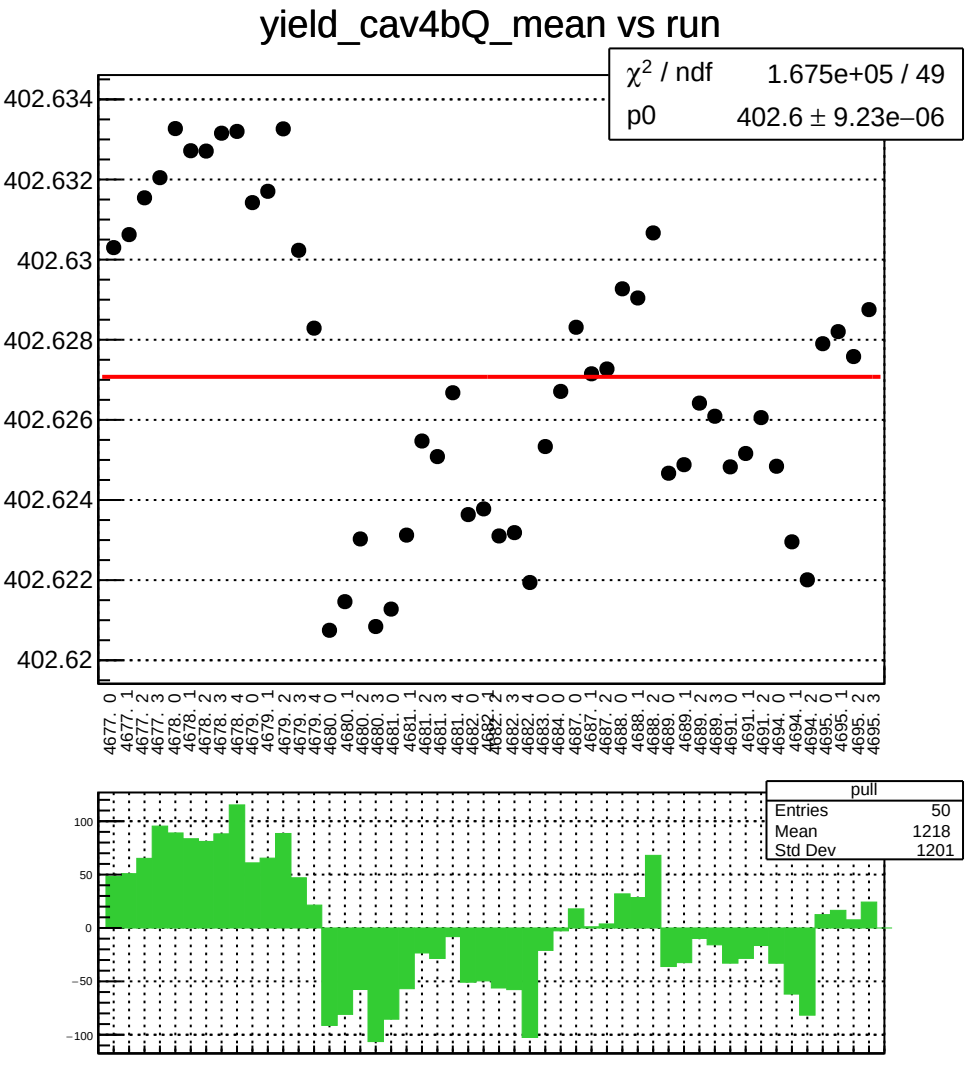
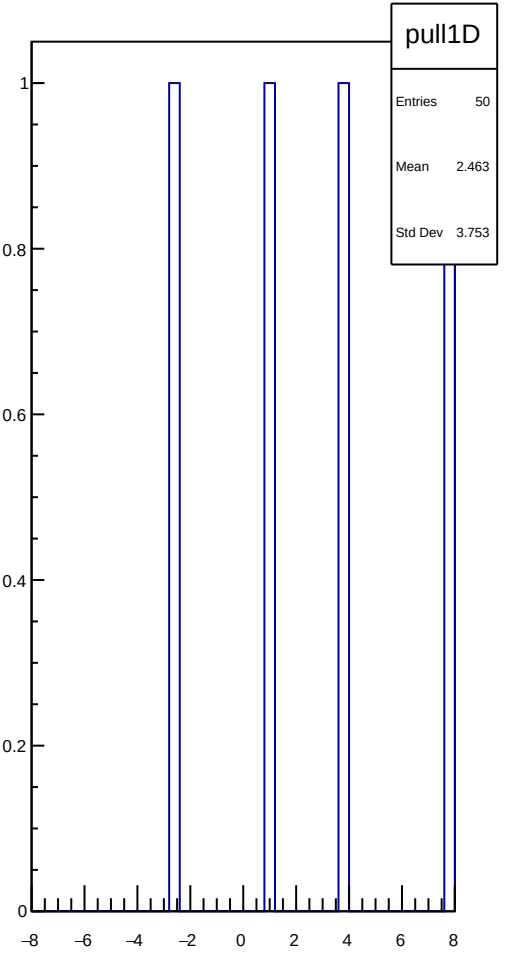
4695. 1
4695. 2
4695. 3

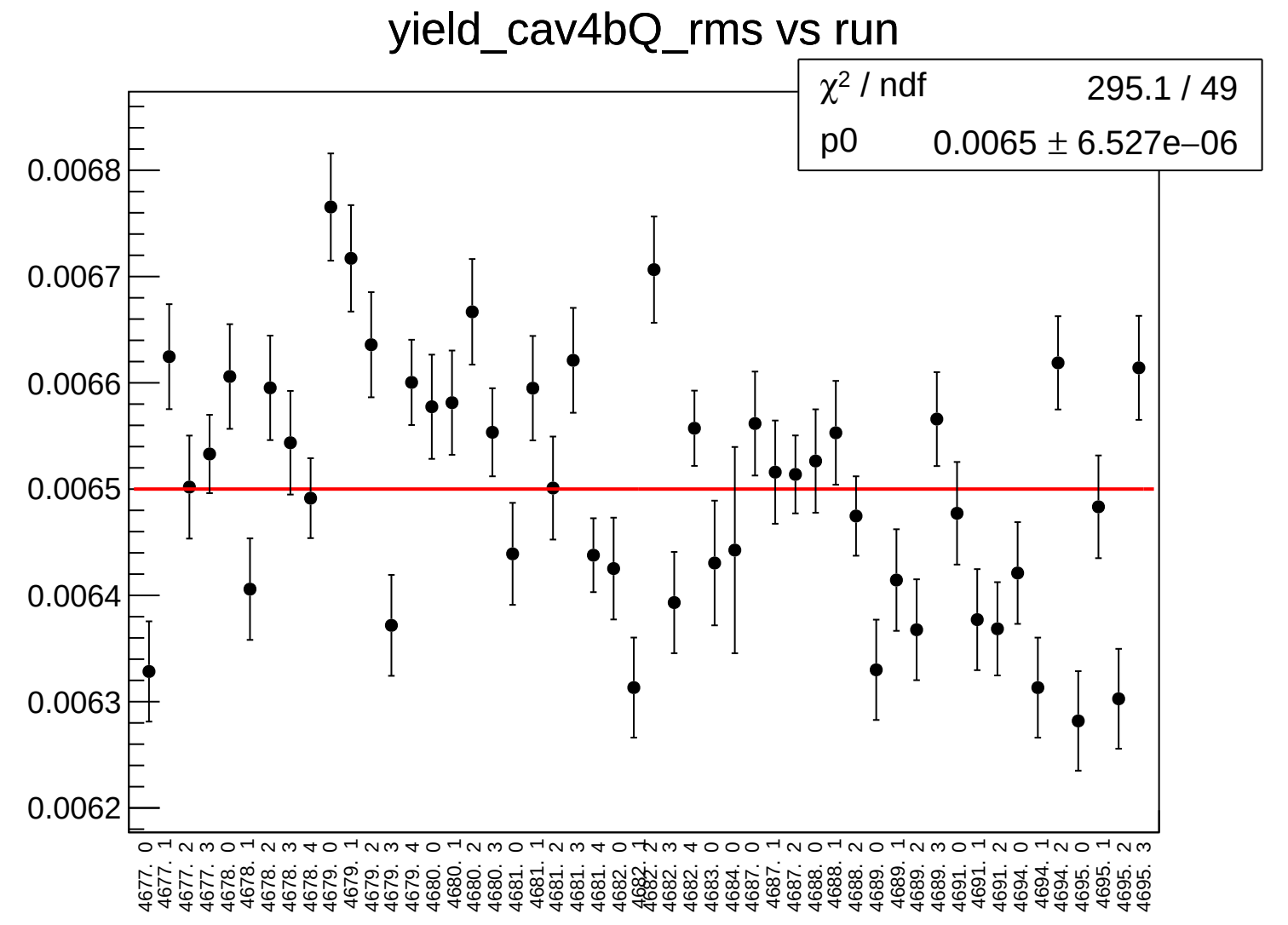

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.239e+06 / 49
p0 71.09 ± 0.0003489
71.8
71.6
71.4
71.2
71
70.8
70.6
70.4
70.2
pull
Entries 50
Mean −224.5
Std Dev 263.8
300
200
100
0
−100
−200
−300

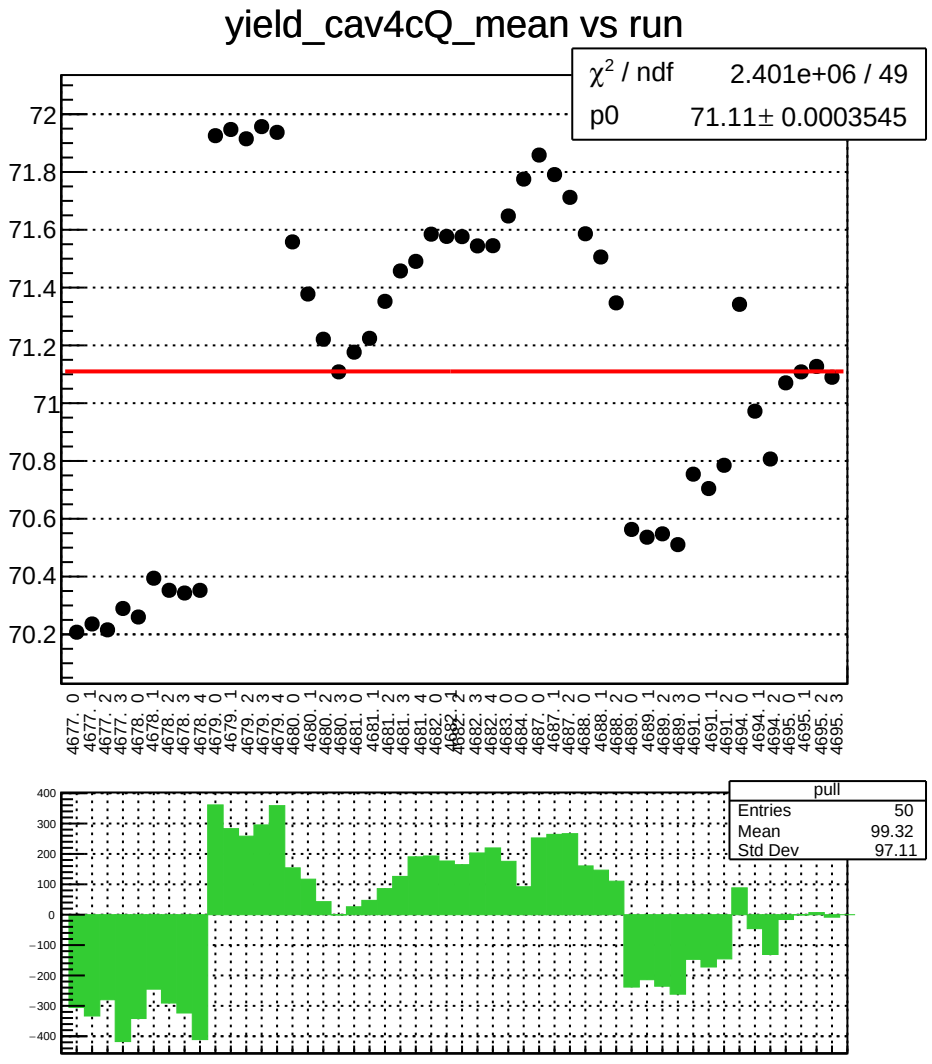

pull1D
Entries 50
Mean −6.104
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

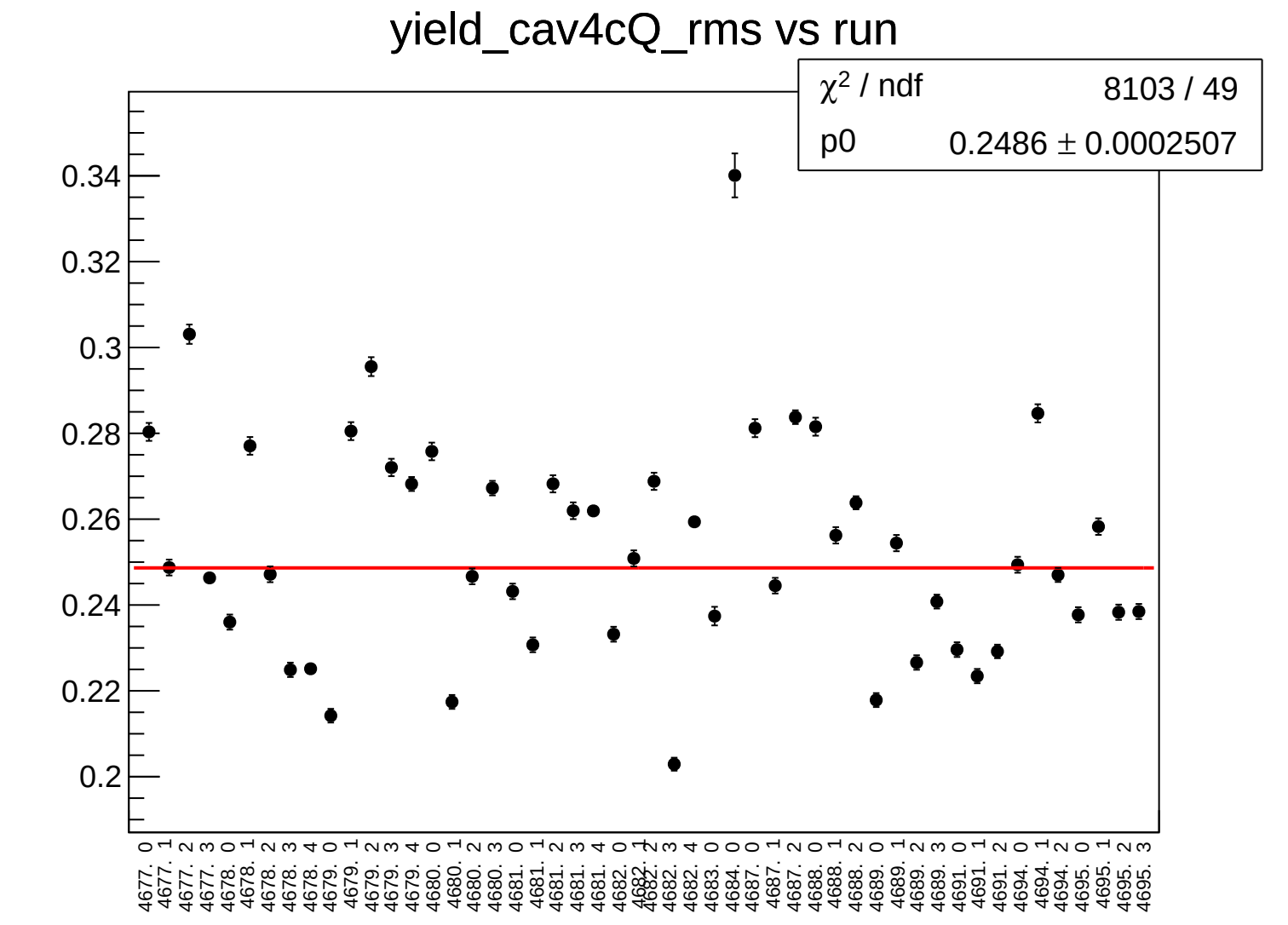

yield_bcm_dg_ds_rms vs run
χ² / ndf 8173 / 49
p0 0.2447 ± 0.0002467
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

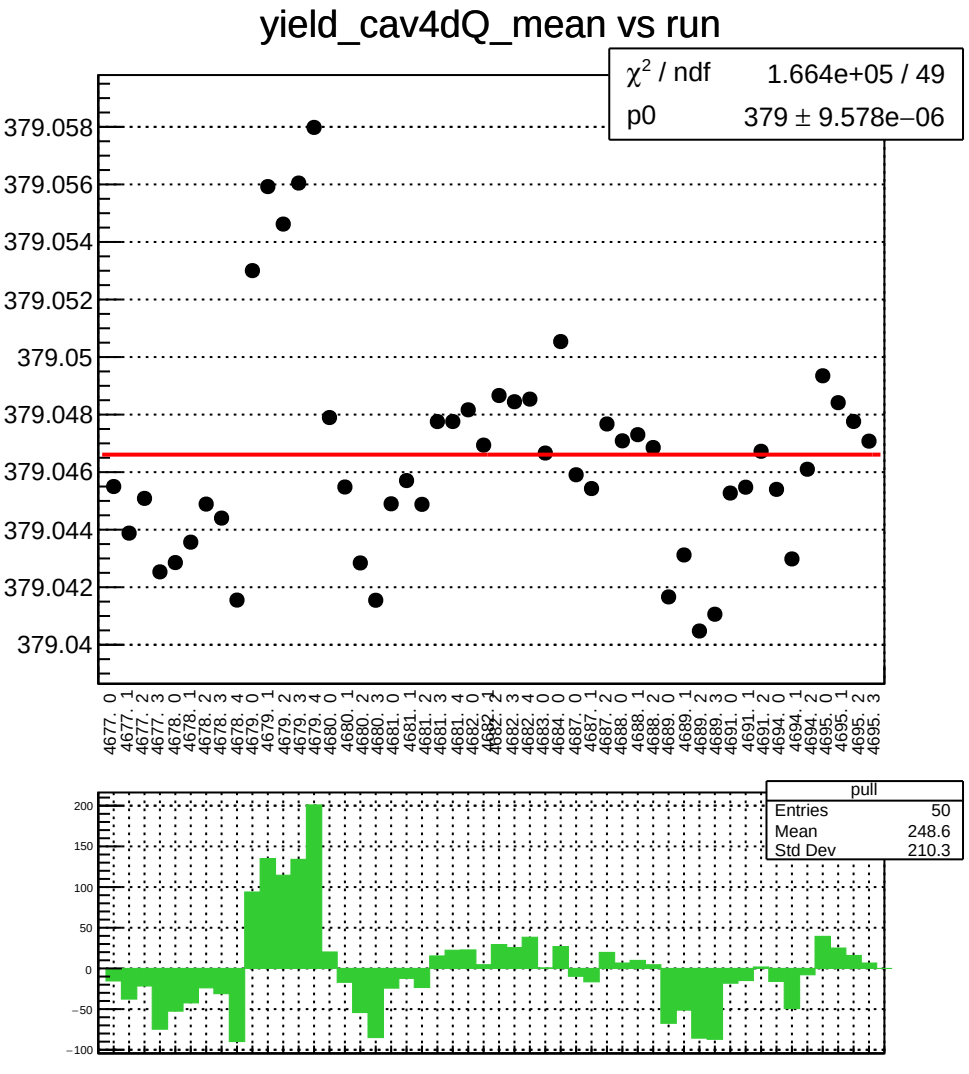

yield_cav4bQ_mean vs run
χ² / ndf 1.675e+05 / 49
p0 402.6 ± 9.23e−06
402.634
402.632
402.63
402.628
402.626
402.624
402.622
402.62
pull
Entries 50
Mean 1218
Std Dev 1201
100
50
0
−50
−100

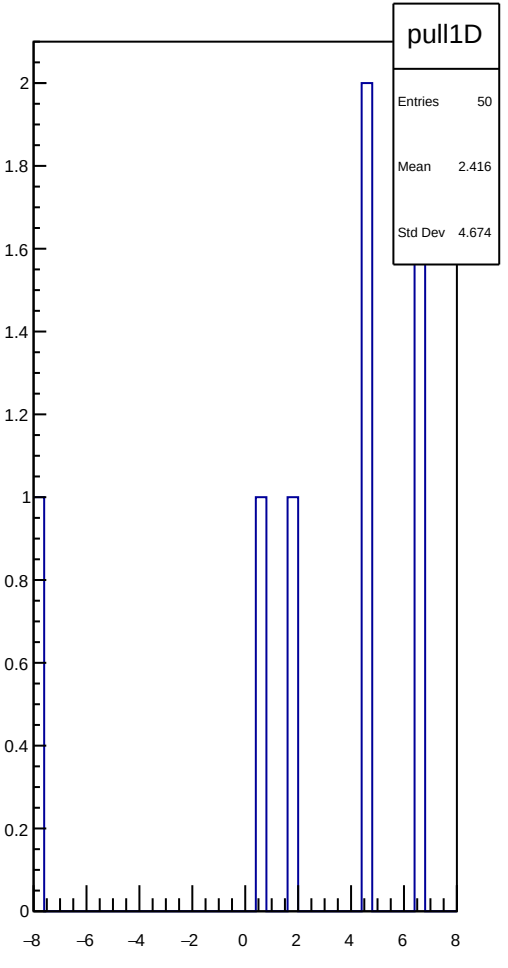

pull1D
Entries 50
Mean 2.463
Std Dev 3.753
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

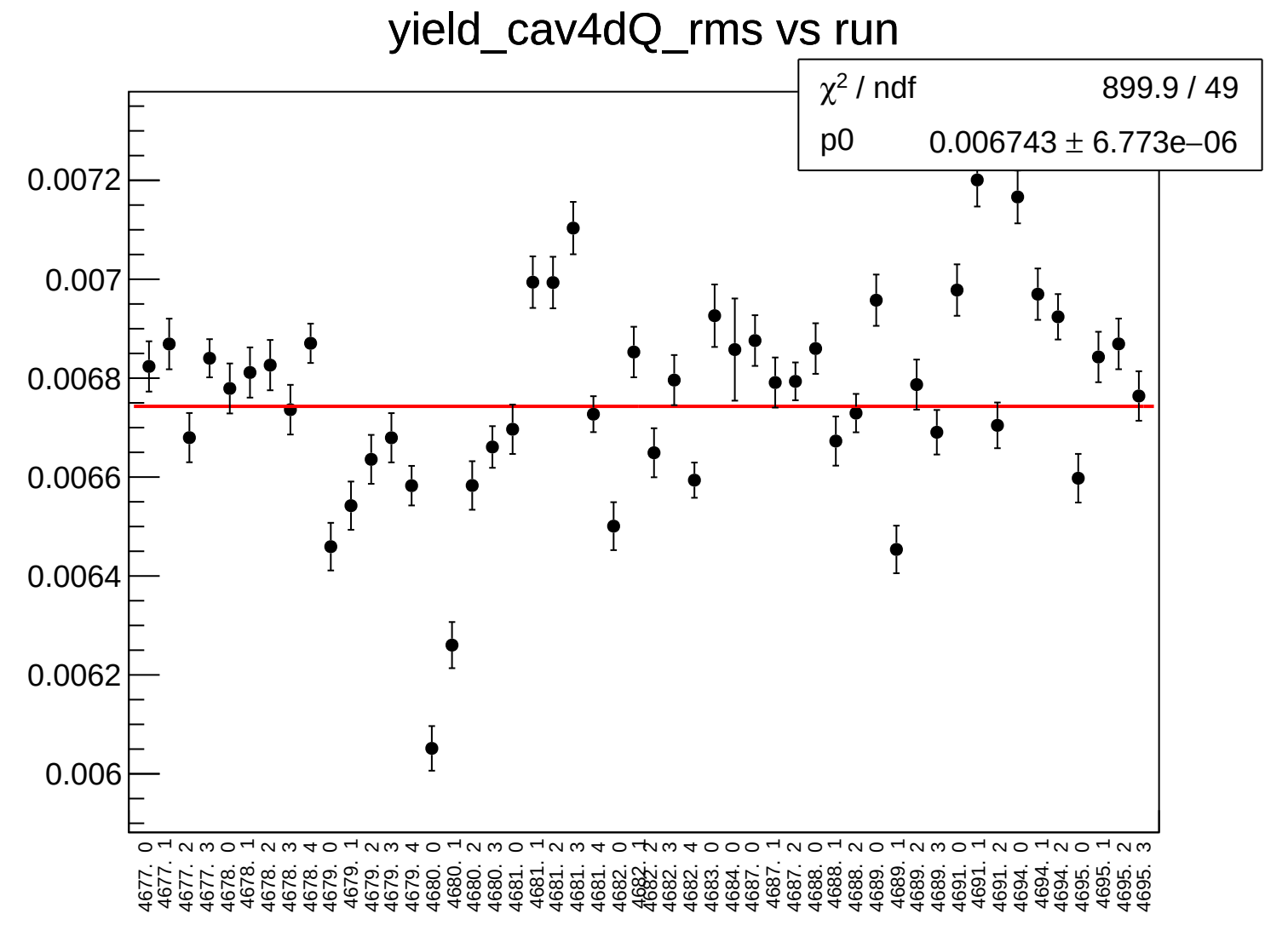

yield_cav4bQ_rms vs run
χ² / ndf 295.1 / 49
p0 0.0065 ± 6.527e−06
0.0068
0.0067
0.0066
0.0065
0.0064
0.0063
0.0062
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

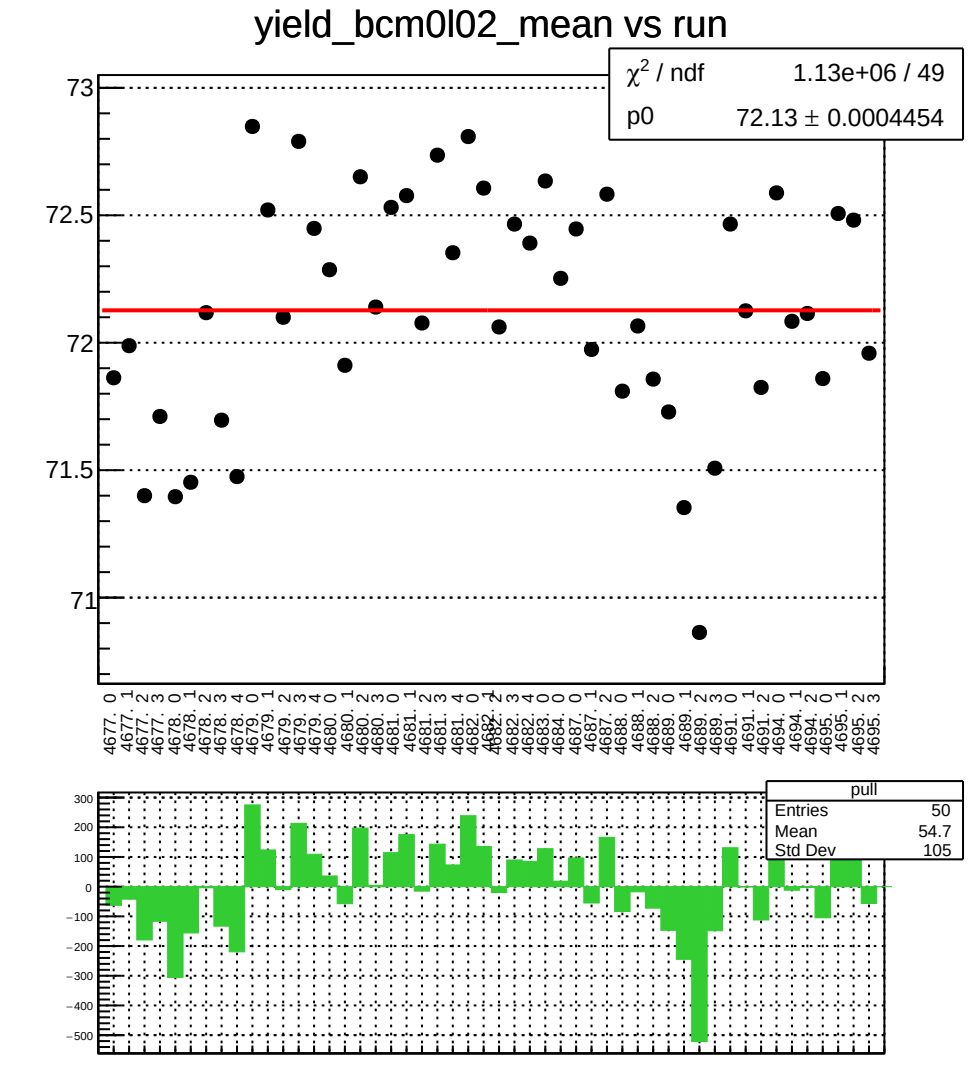

yield_cav4cQ_mean vs run
χ² / ndf 2.401e+06 / 49
p0 71.11± 0.0003545
72
71.8
71.6
71.4
71.2
71
70.8
70.6
70.4
70.2
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4688. 3
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
400
300
200
100
0
−100
−200
−300
−400
pull
Entries 50
Mean 99.32
Std Dev 97.11
pull1D
Entries 50
Mean 1.887
Std Dev 3.542
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

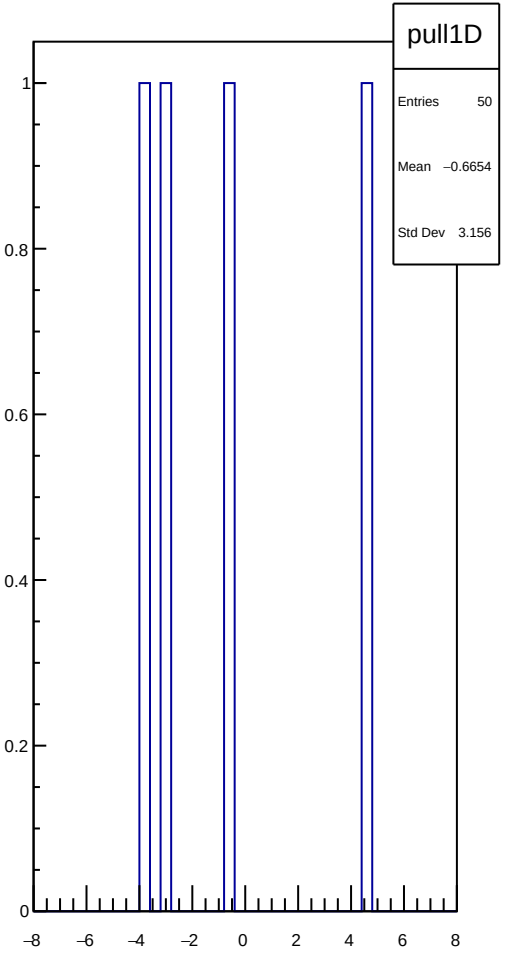

yield_cav4cQ_rms vs run
χ² / ndf 8103 / 49
p0 0.2486 ± 0.0002507
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

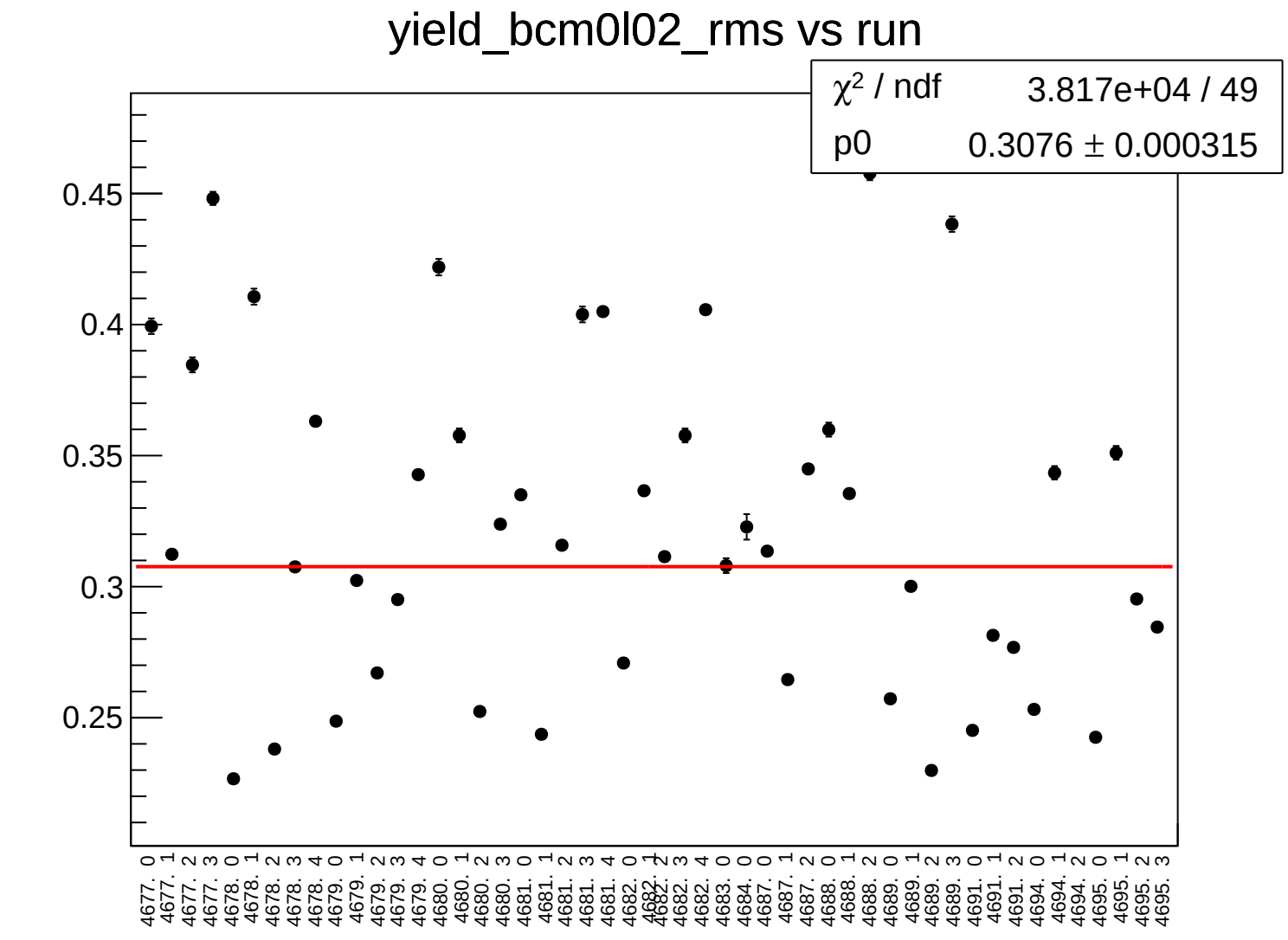

yield_cav4dQ_mean vs run
χ² / ndf 1.664e+05 / 49
p0 379 ± 9.578e−06
379.058
379.056
379.054
379.052
379.05
379.048
379.046
379.044
379.042
379.04
pull
Entries 50
Mean 248.6
Std Dev 210.3
200
150
100
50
0
−50
−100

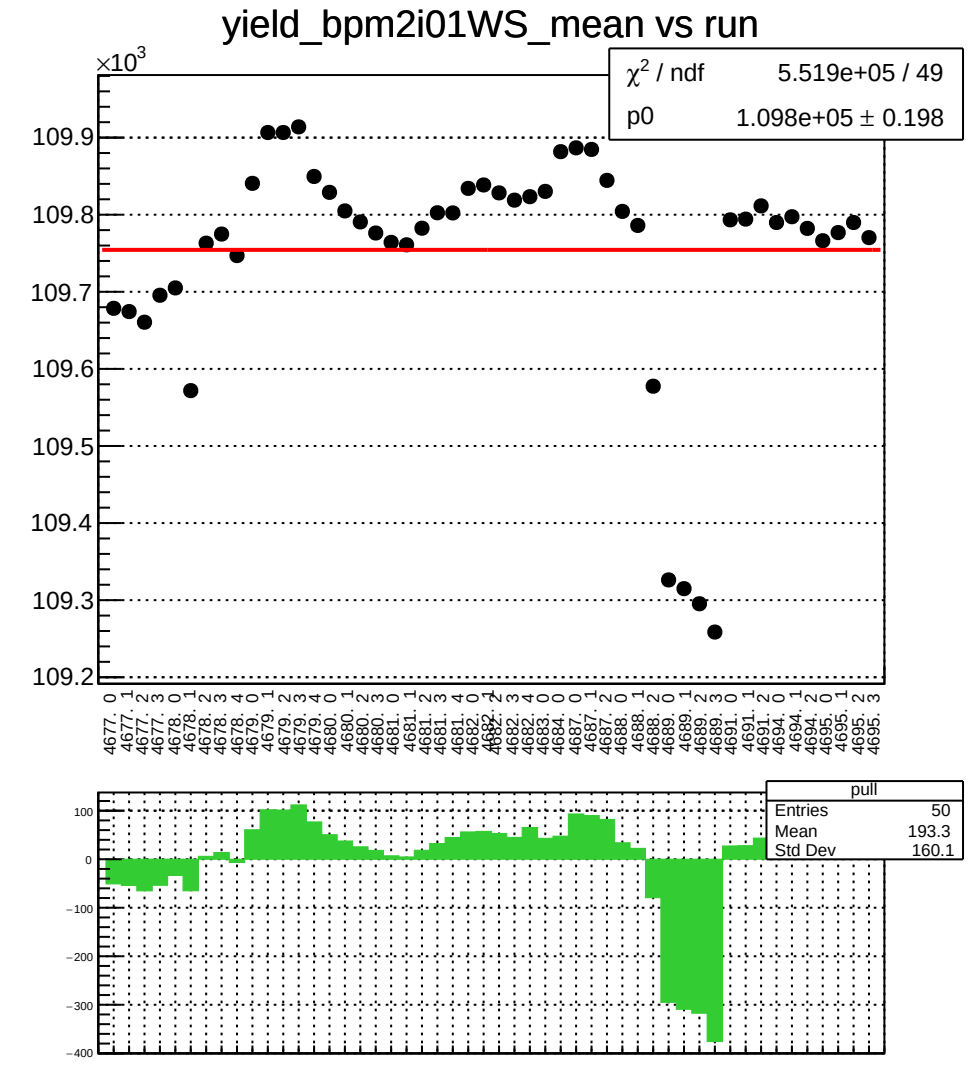

pull1D
Entries 50
Mean 2.416
Std Dev 4.674
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

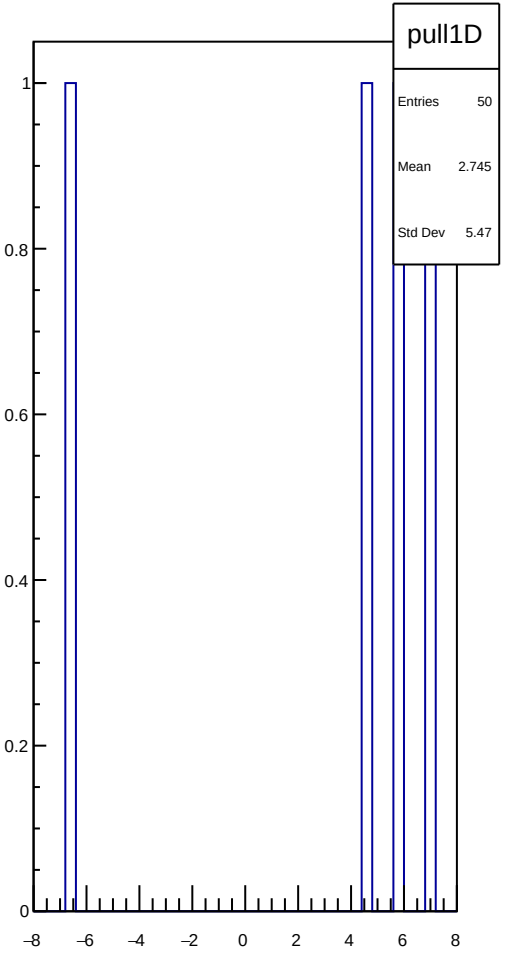

yield_cav4dQ_rms vs run
χ² / ndf 899.9 / 49
p0 0.006743 ± 6.773e−06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

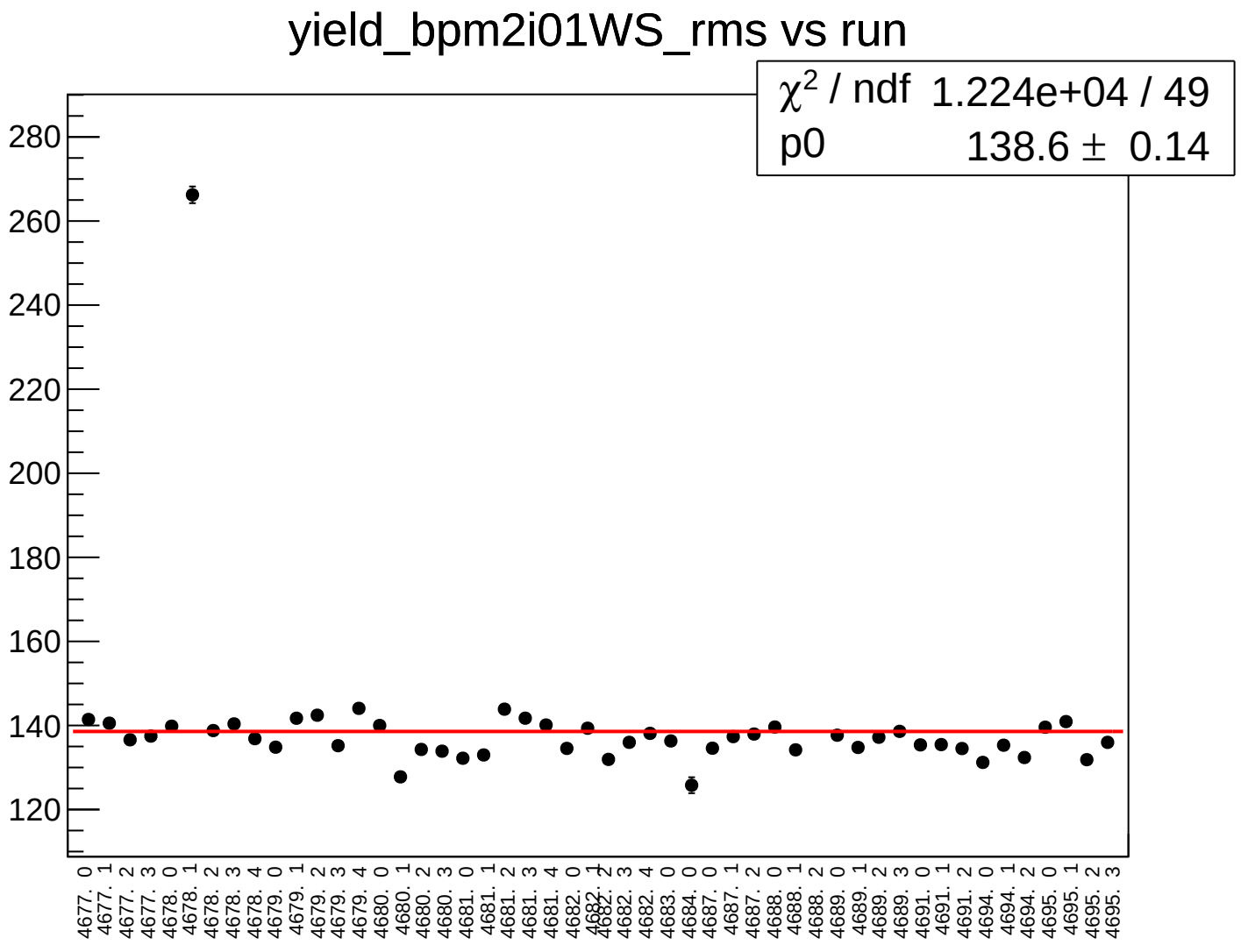

yield_bcm0l02_mean vs run
χ² / ndf 1.13e+06 / 49
p0 72.13 ± 0.0004454
73
72.5
72
71.5
71
pull
Entries 50
Mean 54.7
Std Dev 105
300
200
100
0
−100
−200
−300
−400
−500

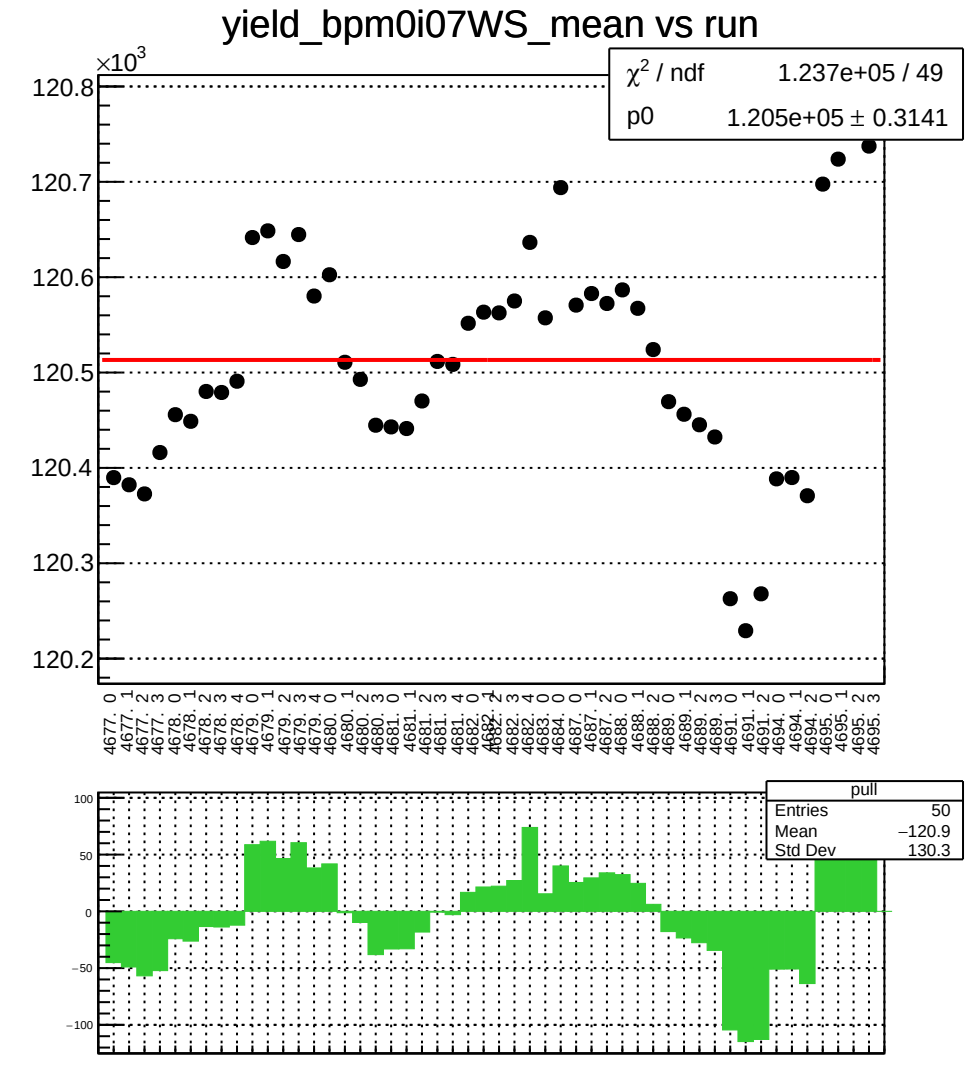

pull1D
Entries 50
Mean −0.6654
Std Dev 3.156
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

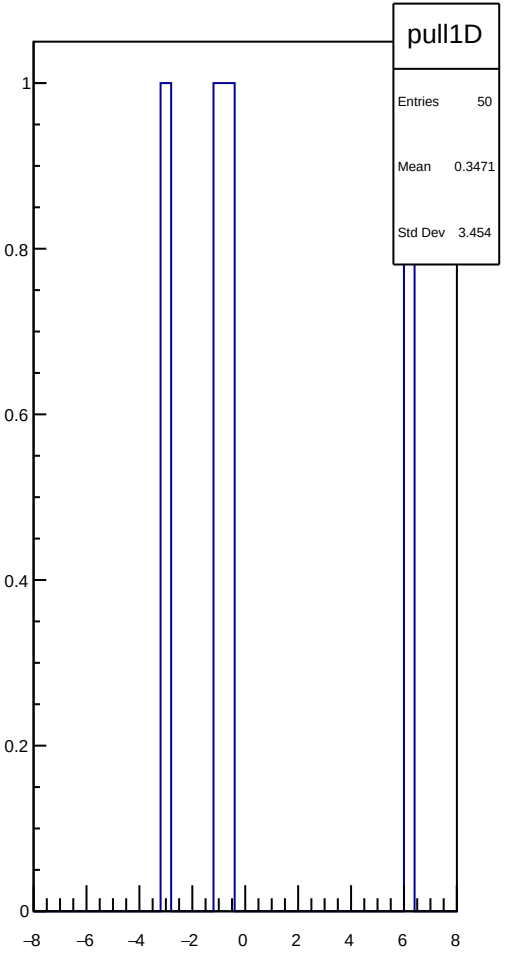

yield_bcm0l02_rms vs run
χ² / ndf 3.817e+04 / 49
p0 0.3076 ± 0.000315
0.45
0.4
0.35
0.3
0.25
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

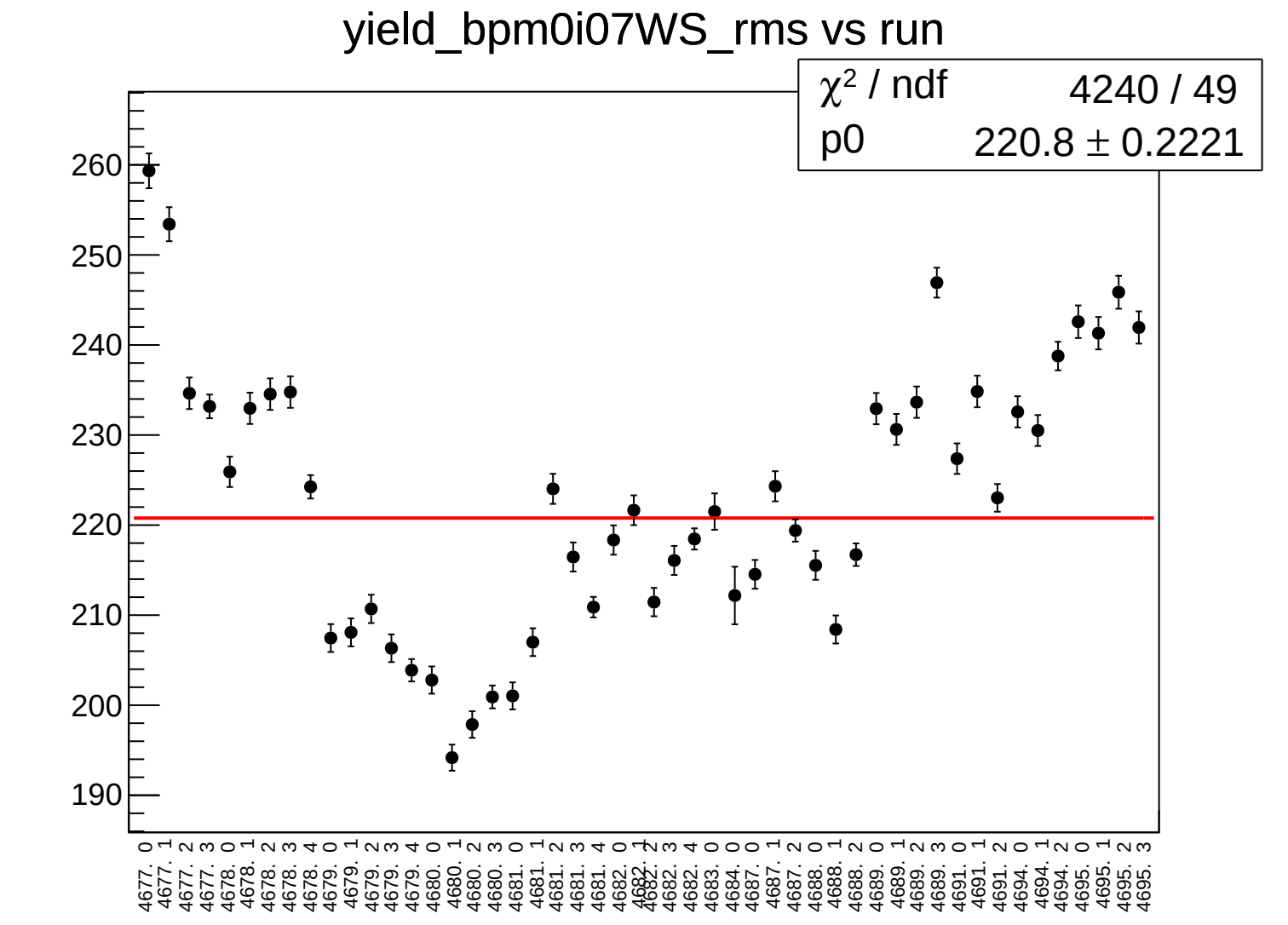

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 5.519e+05 / 49
p0 1.098e+05 ± 0.198
109.9
109.8
109.7
109.6
109.5
109.4
109.3
109.2
pull
Entries 50
Mean 193.3
Std Dev 160.1
100
0
−100
−200
−300
−400

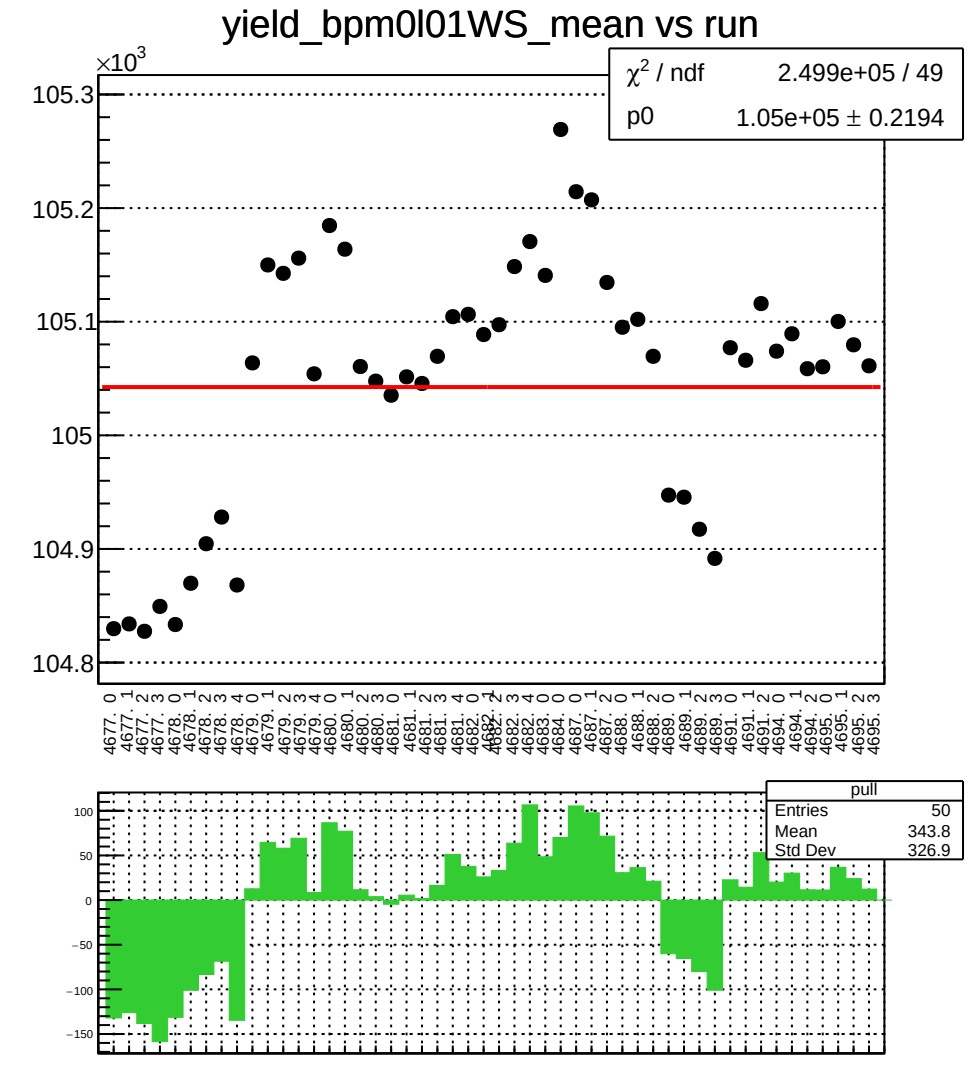

pull1D
Entries 50
Mean 2.745
Std Dev 5.47
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

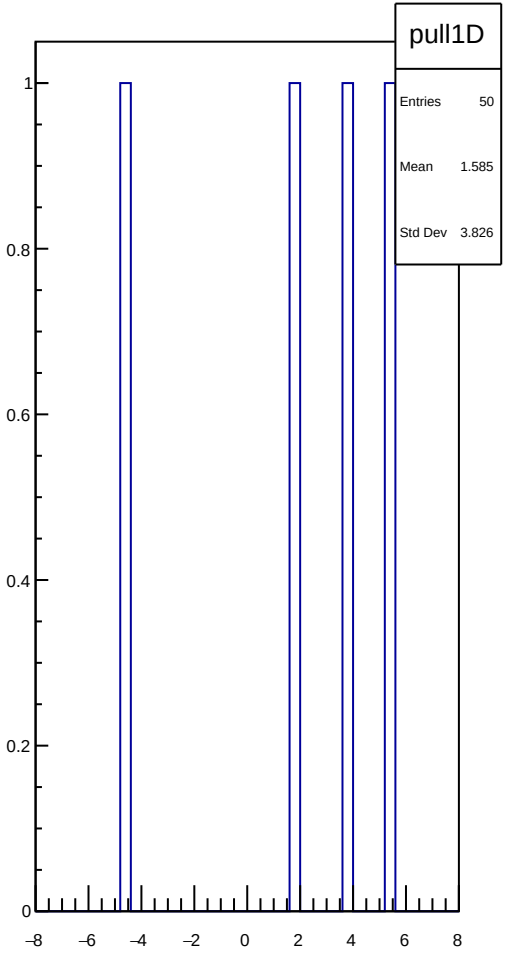

yield_bpm2i01WS_rms vs run
χ² / ndf 1.224e+04 / 49
p0 138.6 ± 0.14
280
260
240
220
200
180
160
140
120
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

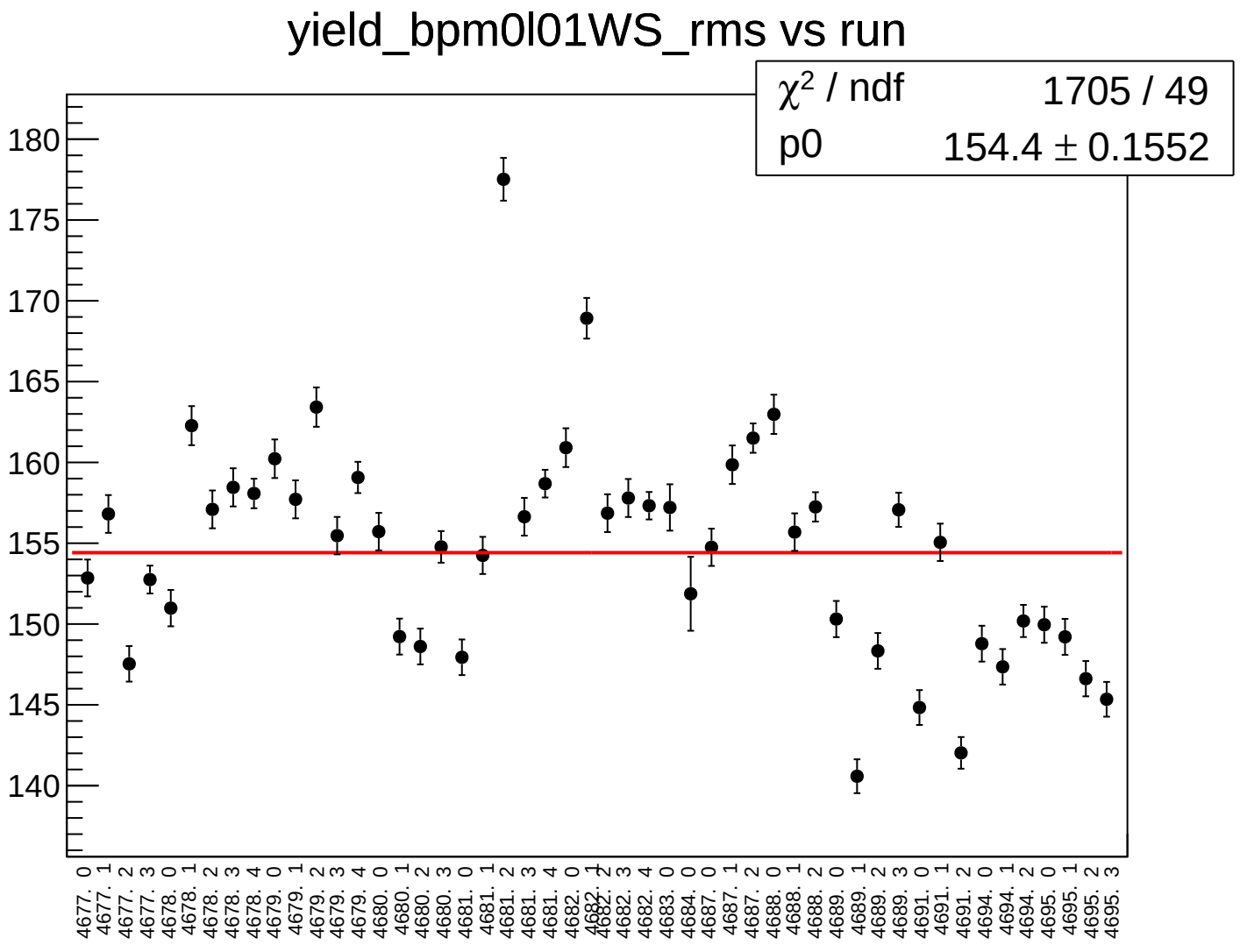

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.237e+05 / 49
p0 1.205e+05 ± 0.3141
120.8
120.7
120.6
120.5
120.4
120.3
120.2
pull
Entries 50
Mean −120.9
Std Dev 130.3
100
50
0
−50
−100

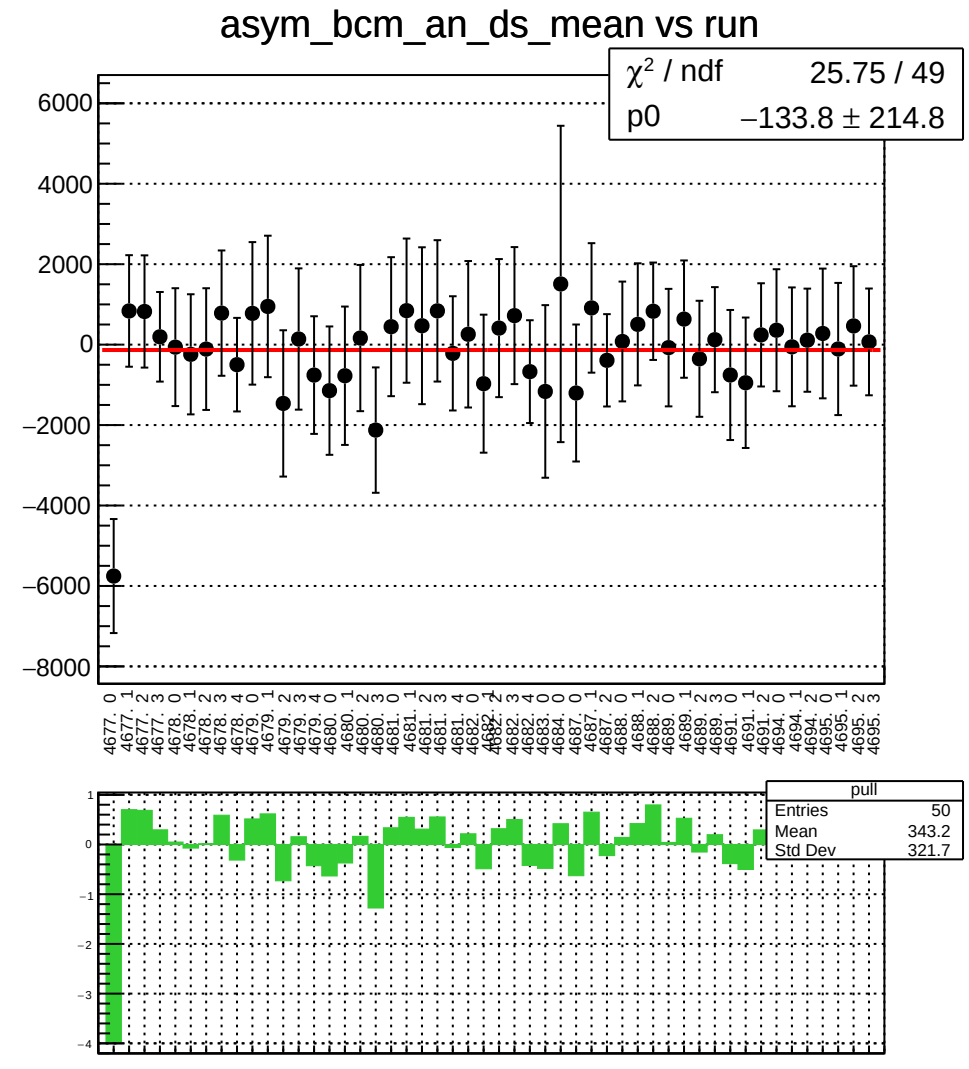

pull1D
Entries 50
Mean 0.3471
Std Dev 3.454
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

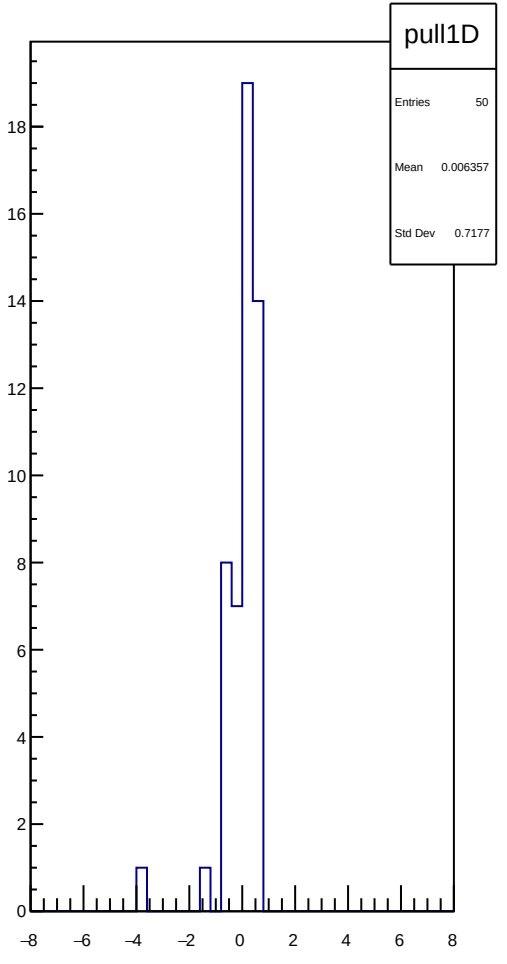

yield_bpm0i07WS_rms vs run
χ² / ndf 4240 / 49
p0 220.8 ± 0.2221
260
250
240
230
220
210
200
190
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.499e+05 / 49
p0 1.05e+05 ± 0.2194
105.3
105.2
105.1
105
104.9
104.8
pull
Entries 50
Mean 343.8
Std Dev 326.9
100
50
0
−50
−100
−150


pull1D
Entries 50
Mean 1.585
Std Dev 3.826
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 1705 / 49
p0 154.4 ± 0.1552
180
175
170
165
160
155
150
145
140
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_bcm_an_ds_mean vs run
χ² / ndf 25.75 / 49
p0 −133.8 ± 214.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 50
Mean 343.2
Std Dev 321.7
1
0
−1
−2
−3
−4


pull1D
Entries 50
Mean 0.006357
Std Dev 0.7177
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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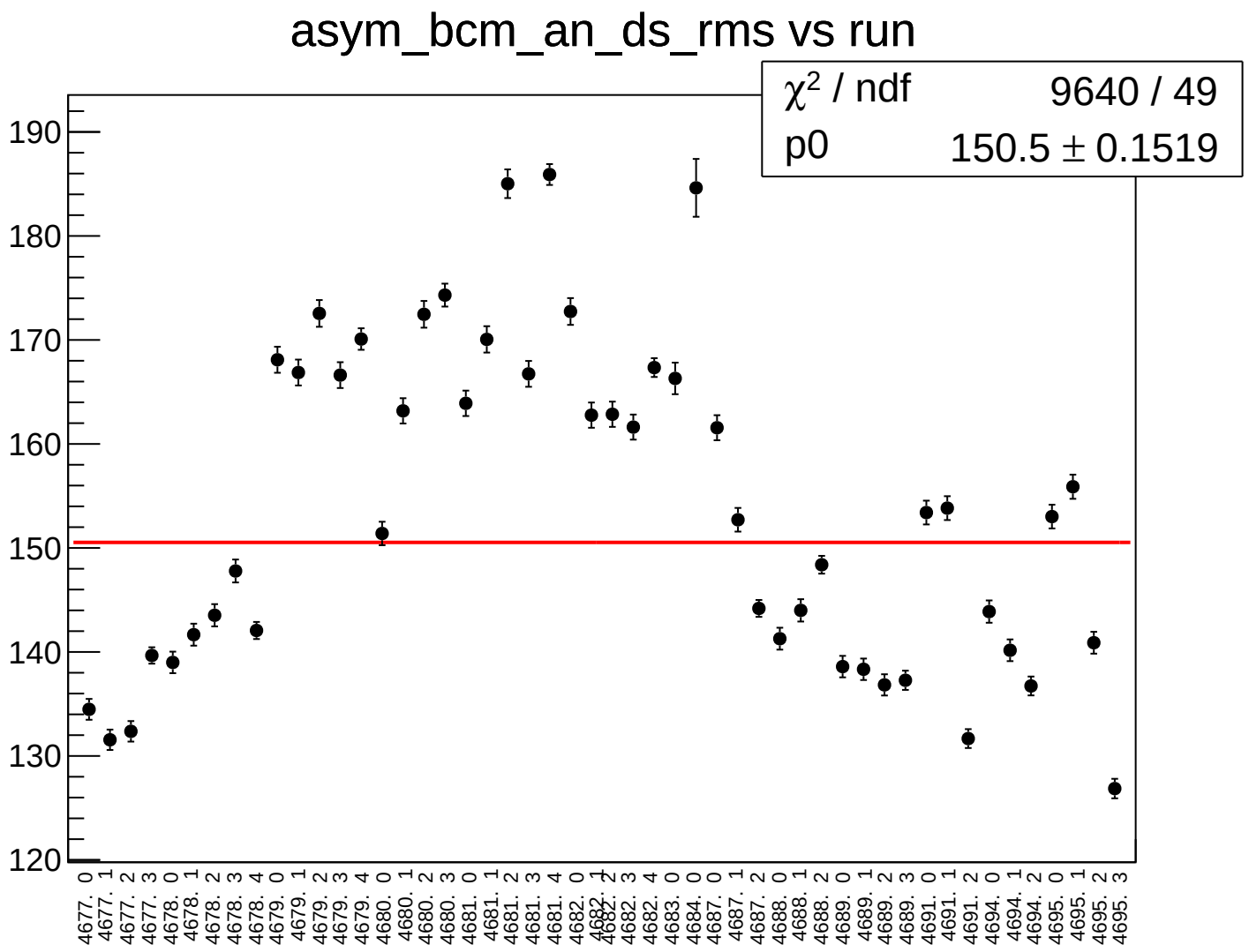
0
2
4
6
8


asym_bcm_an_ds_rms vs run
χ² / ndf 9640 / 49
p0 150.5 ± 0.1519
190
180
170
160
150
140
130
120
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
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4688. 2
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4689. 2
4689. 3
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4691. 2
4694. 0
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4694. 2
4695. 0
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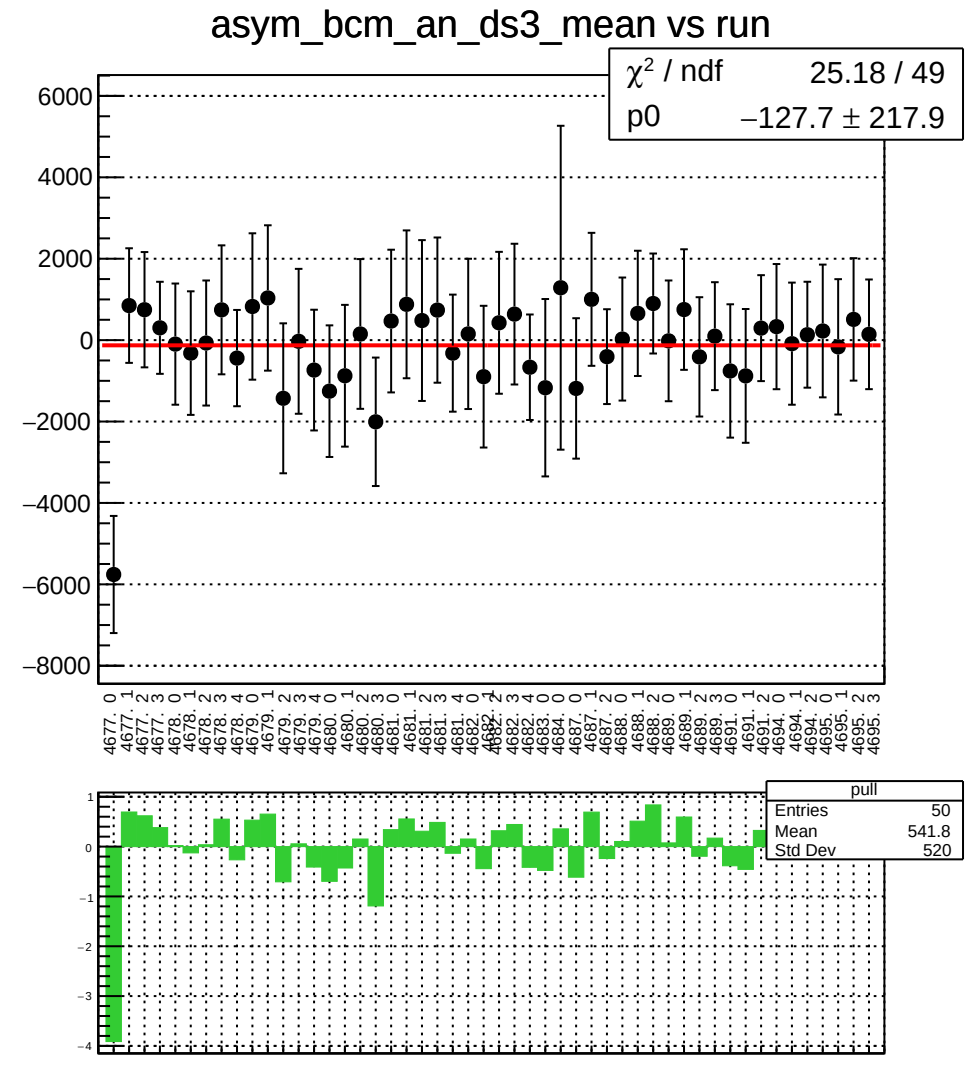
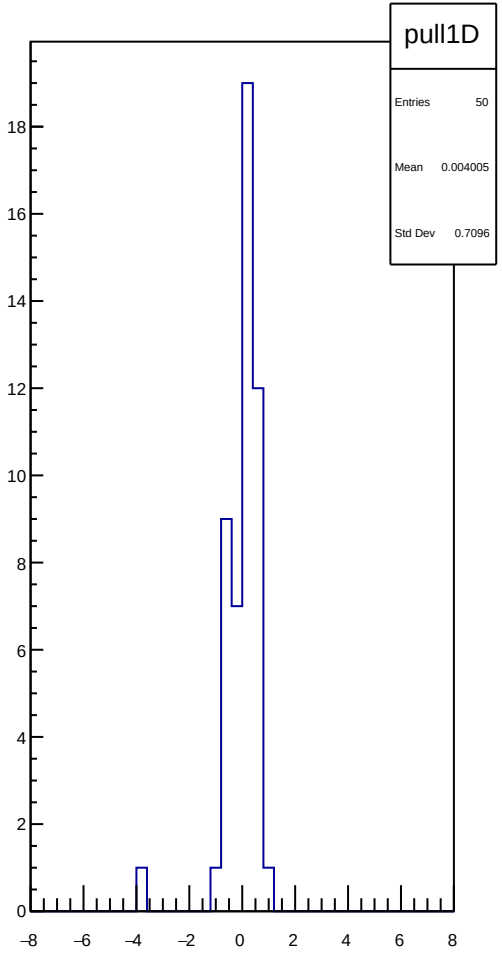
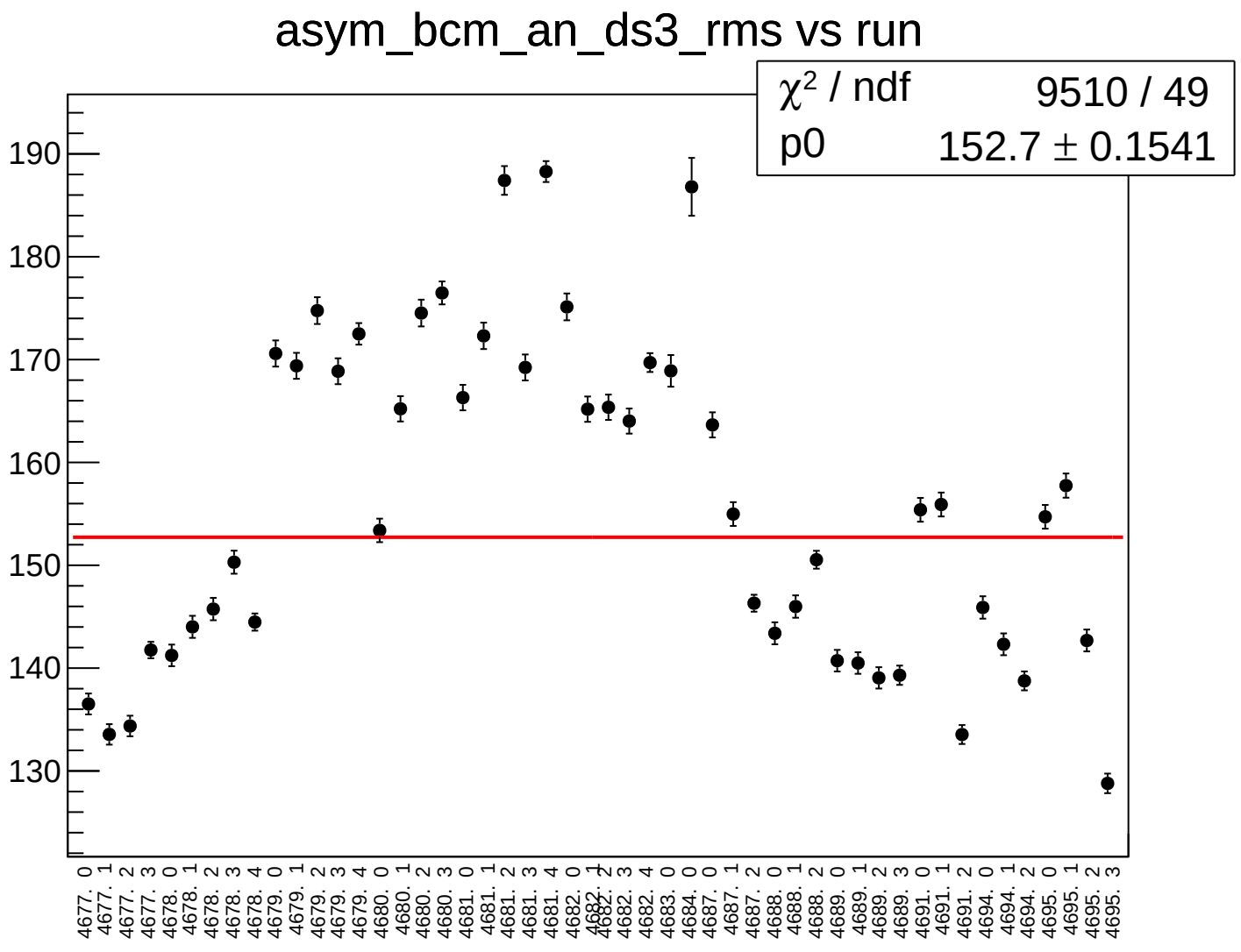
4695. 2
4695. 3


asym_bcm_an_ds3_mean vs run
χ² / ndf 25.18 / 49
p0 −127.7 ± 217.9
pull
Entries 50
Mean 541.8
Std Dev 520


pull1D
Entries 50
Mean 0.004005
Std Dev 0.7096


asym_bcm_an_ds3_rms vs run
χ² / ndf 9510 / 49
p0 152.7 ± 0.1541
190
180
170
160
150
140
130
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
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4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
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4680. 2
4680. 3
4681. 0
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4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
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4688. 1
4688. 2
4689. 0
4689. 1
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4689. 3
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4695. 0
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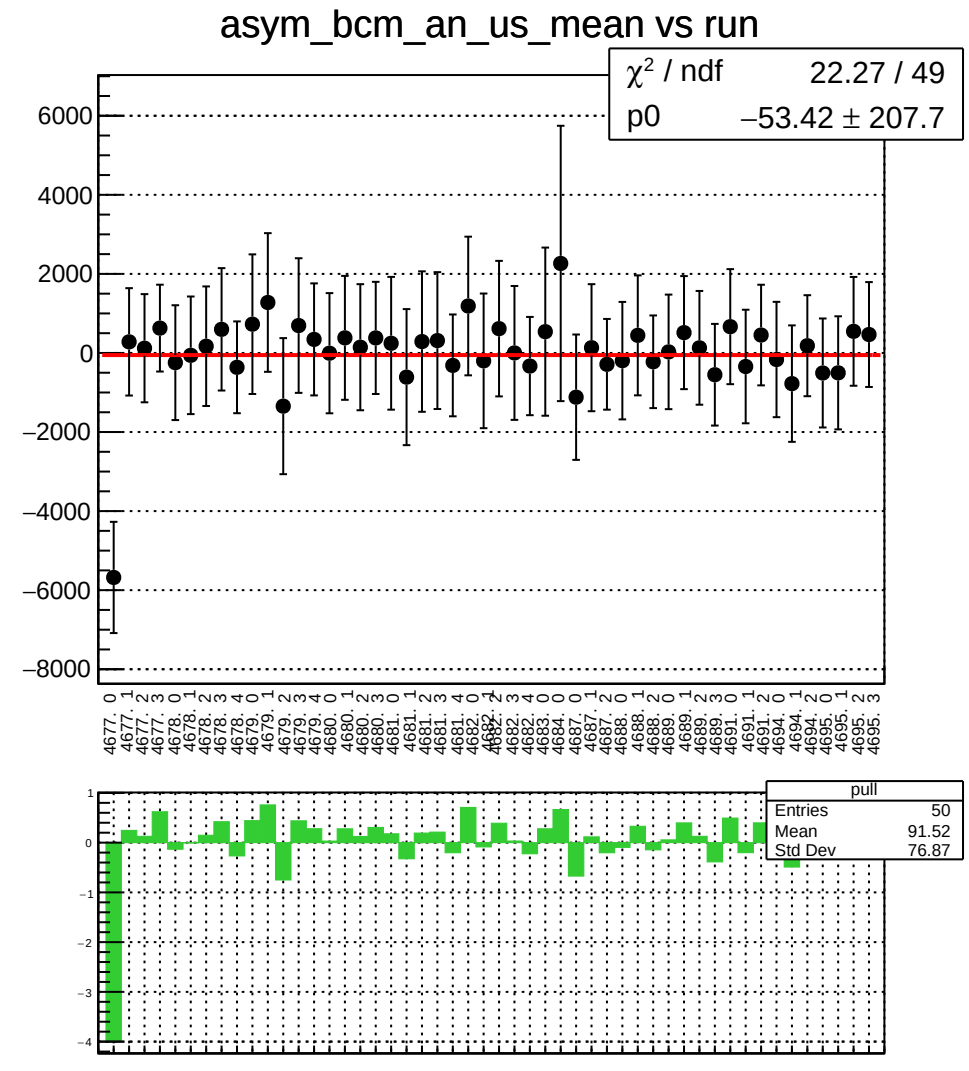
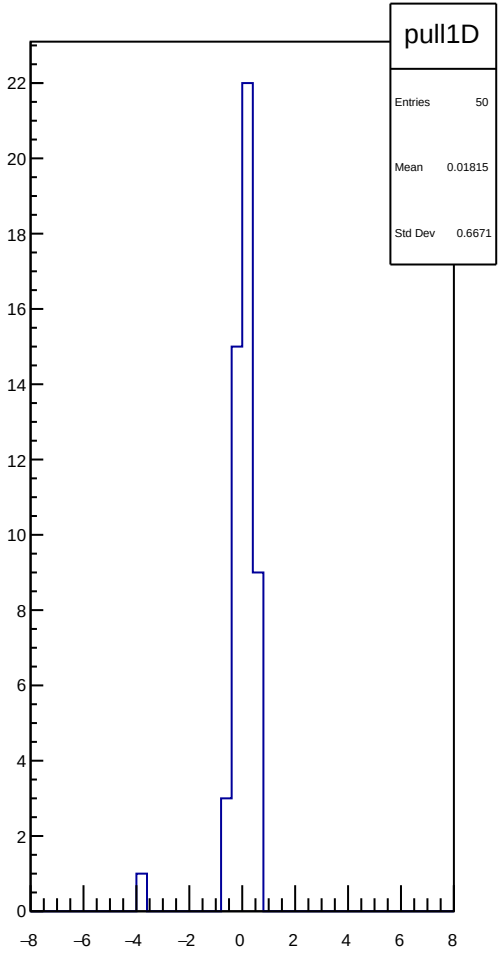
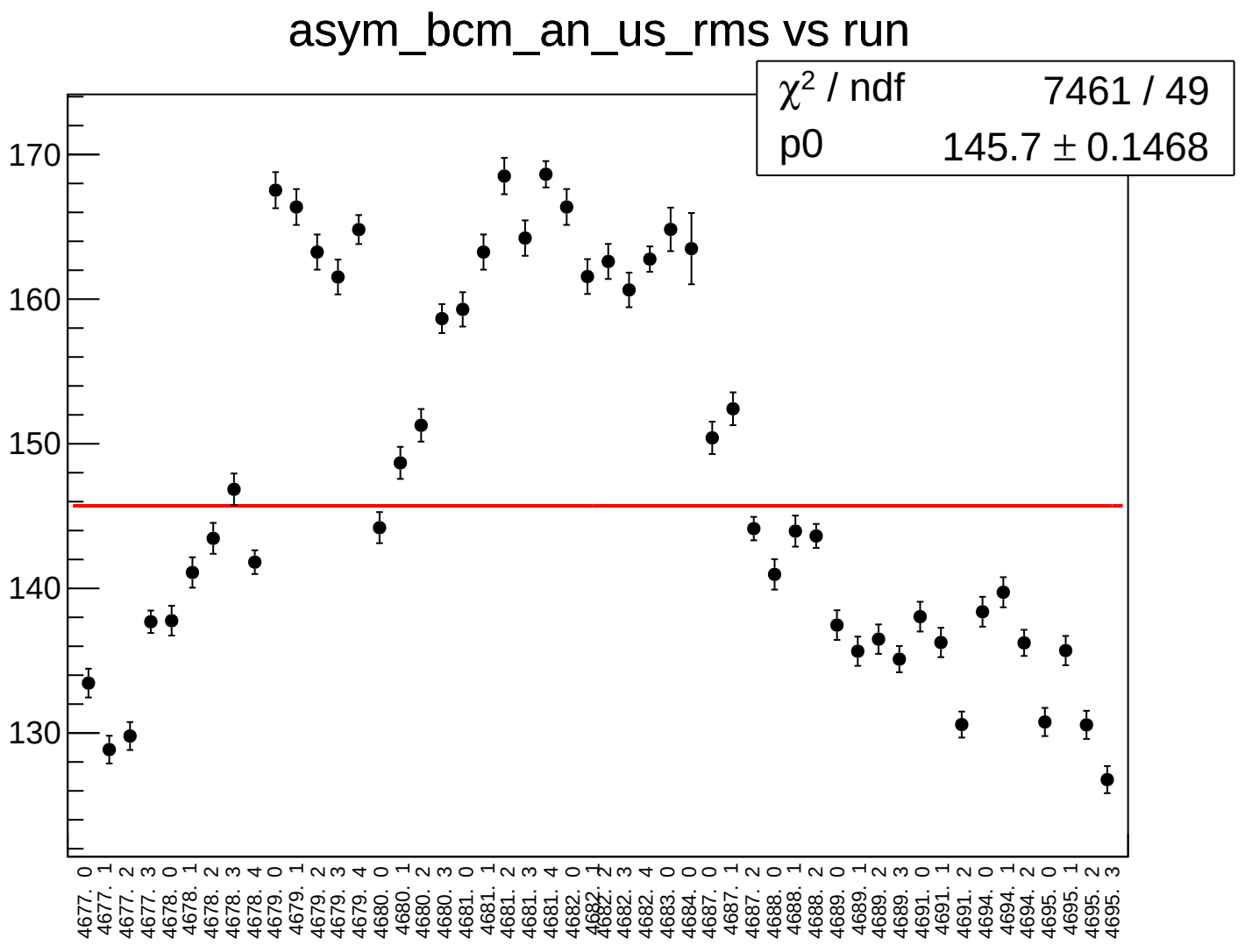
4695. 2
4695. 3


asym_bcm_an_us_mean vs run
χ² / ndf 22.27 / 49
p0 −53.42 ± 207.7
pull
Entries 50
Mean 91.52
Std Dev 76.87


pull1D
Entries 50
Mean 0.01815
Std Dev 0.6671


asym_bcm_an_us_rms vs run
χ² / ndf 7461 / 49
p0 145.7 ± 0.1468
170
160
150
140
130
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4677. 3
4678. 0
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4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
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4695. 0
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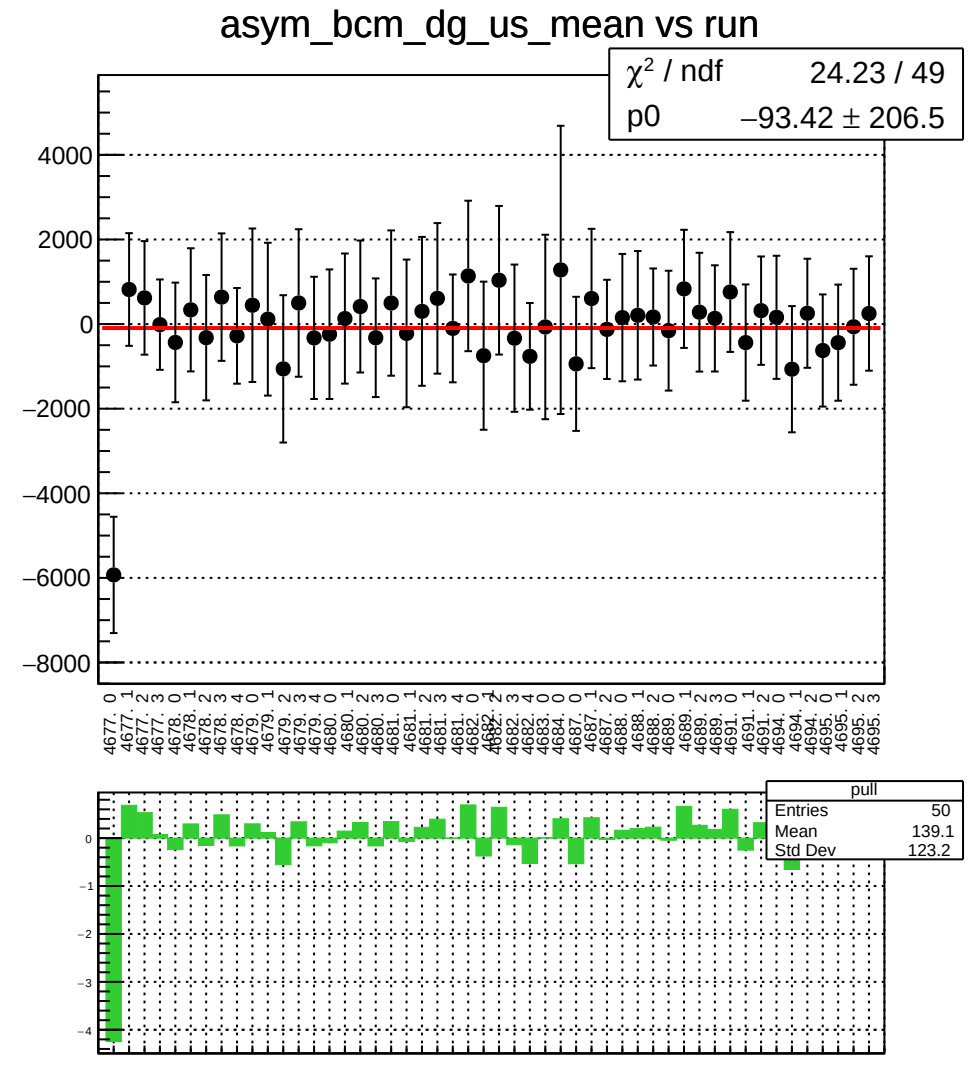
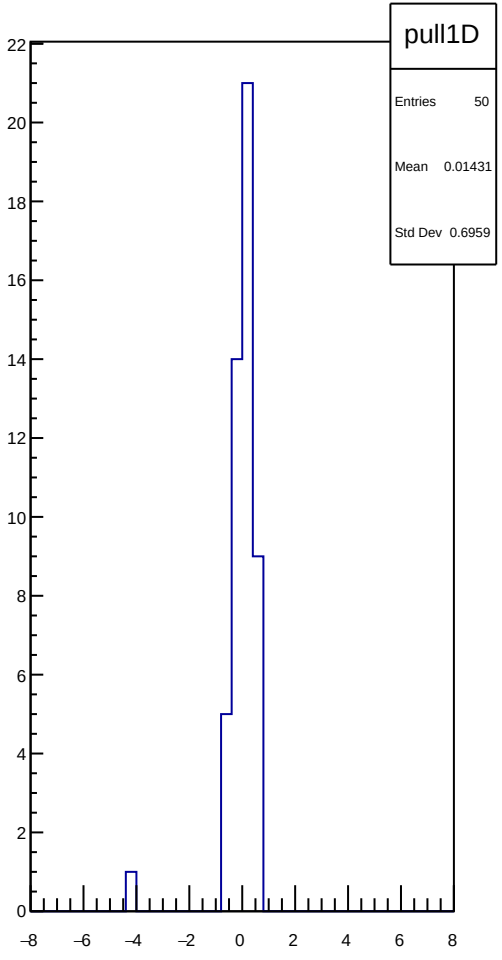
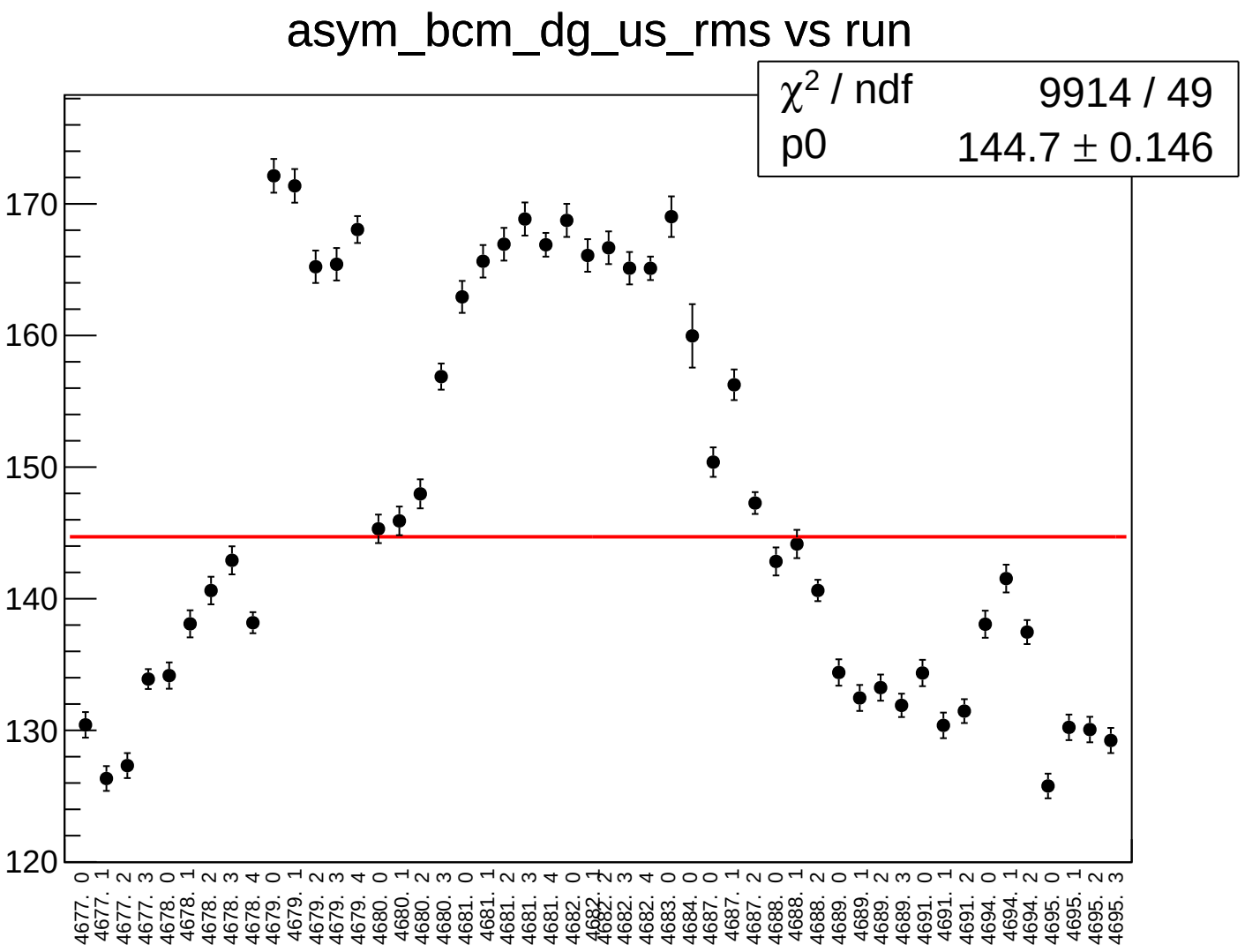
4695. 3


asym_bcm_dg_us_mean vs run
χ² / ndf 24.23 / 49
p0 −93.42 ± 206.5
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 50
Mean 139.1
Std Dev 123.2


pull1D
Entries 50
Mean 0.01431
Std Dev 0.6959
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_rms vs run
χ^2 / ndf 9914 / 49
p0 144.7 ± 0.146
170
160
150
140
130
120
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4677. 2
4677. 3
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4678. 4
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4679. 2
4679. 3
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4680. 2
4680. 3
4681. 0
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4681. 4
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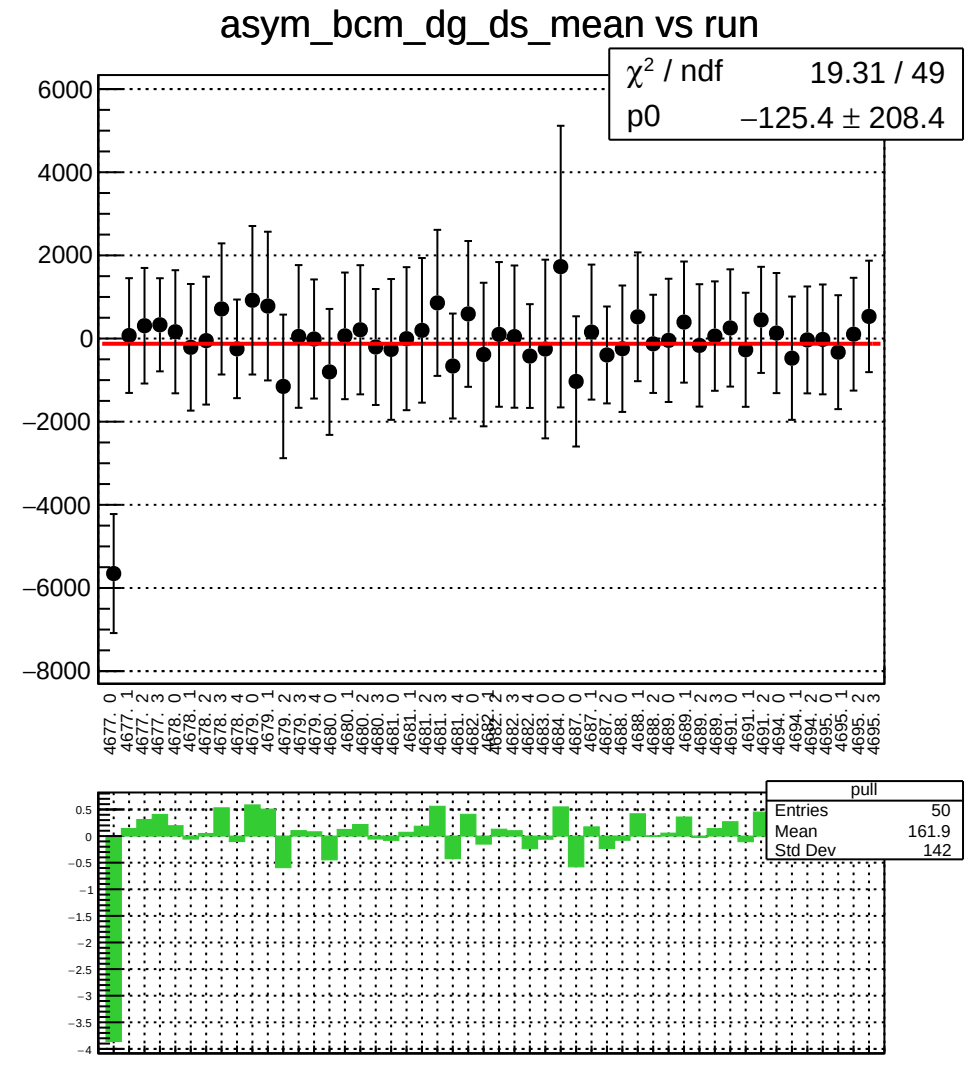
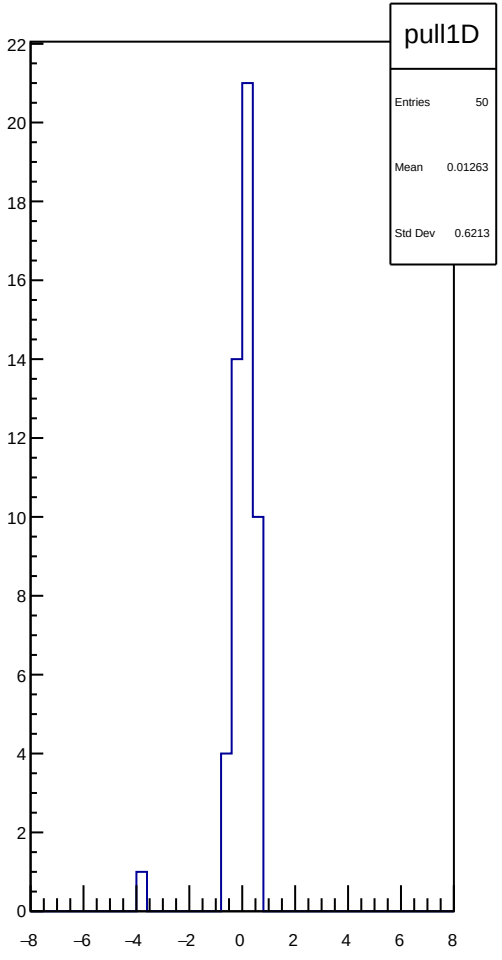
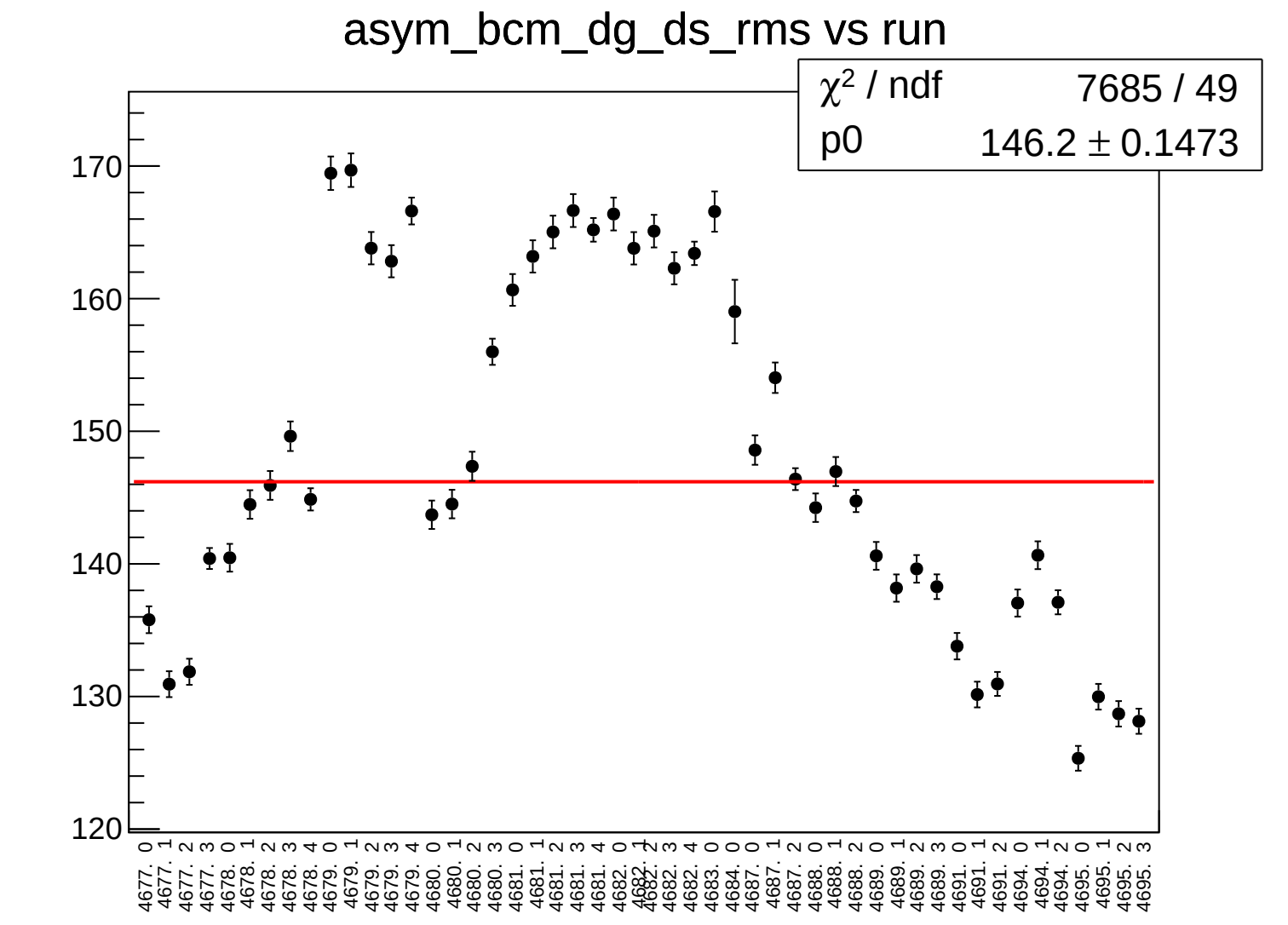
4695. 2
4695. 3


asym_bcm_dg_ds_mean vs run
χ² / ndf 19.31 / 49
p0 −125.4 ± 208.4
pull
Entries 50
Mean 161.9
Std Dev 142


pull1D
Entries 50
Mean 0.01263
Std Dev 0.6213


asym_bcm_dg_ds_rms vs run
χ² / ndf 7685 / 49
p0 146.2 ± 0.1473
170
160
150
140
130
120
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4679. 4
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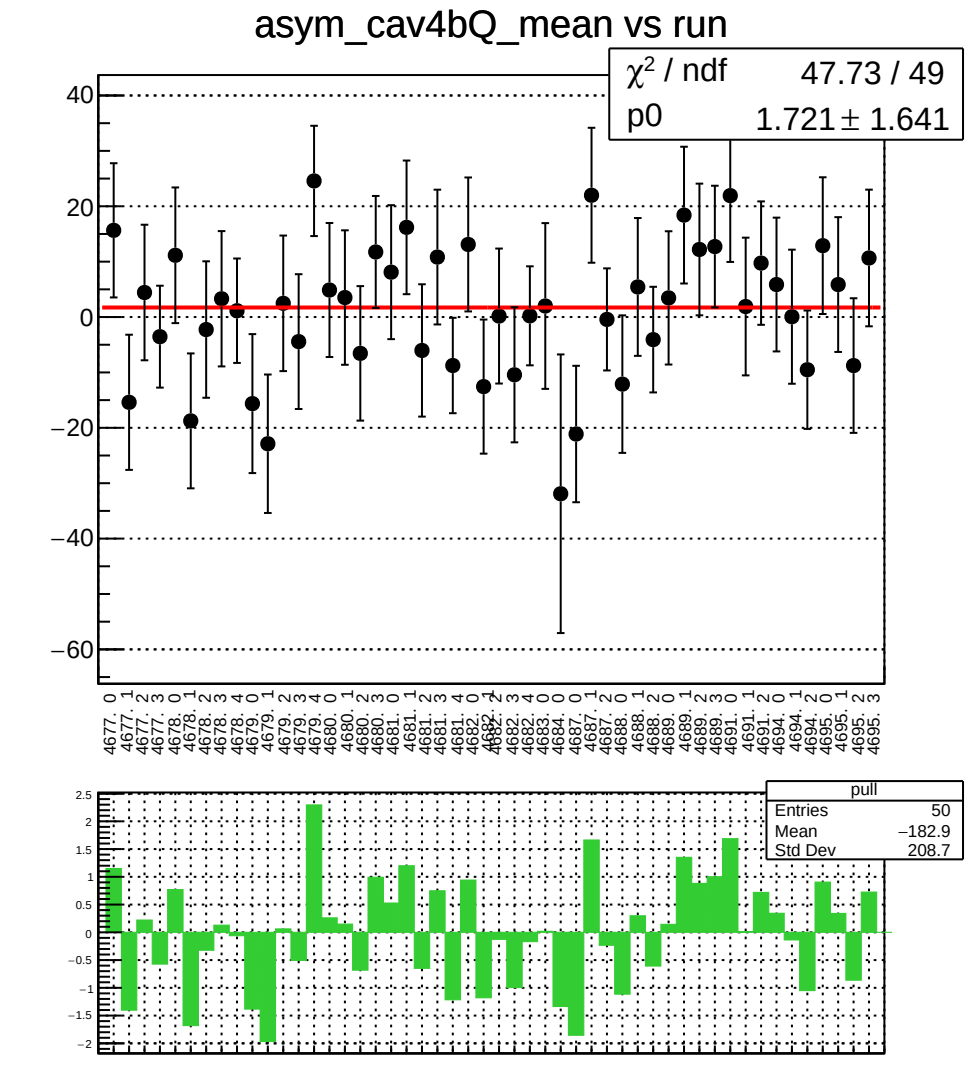
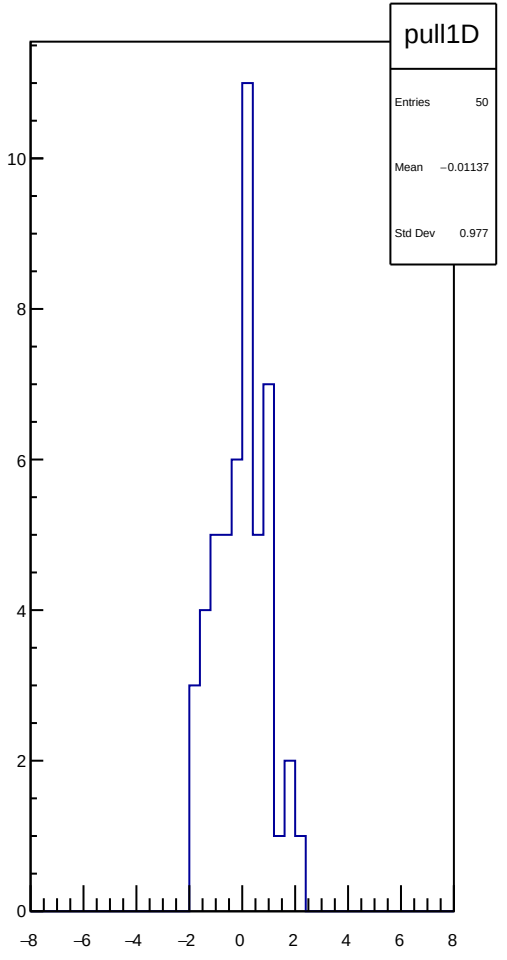
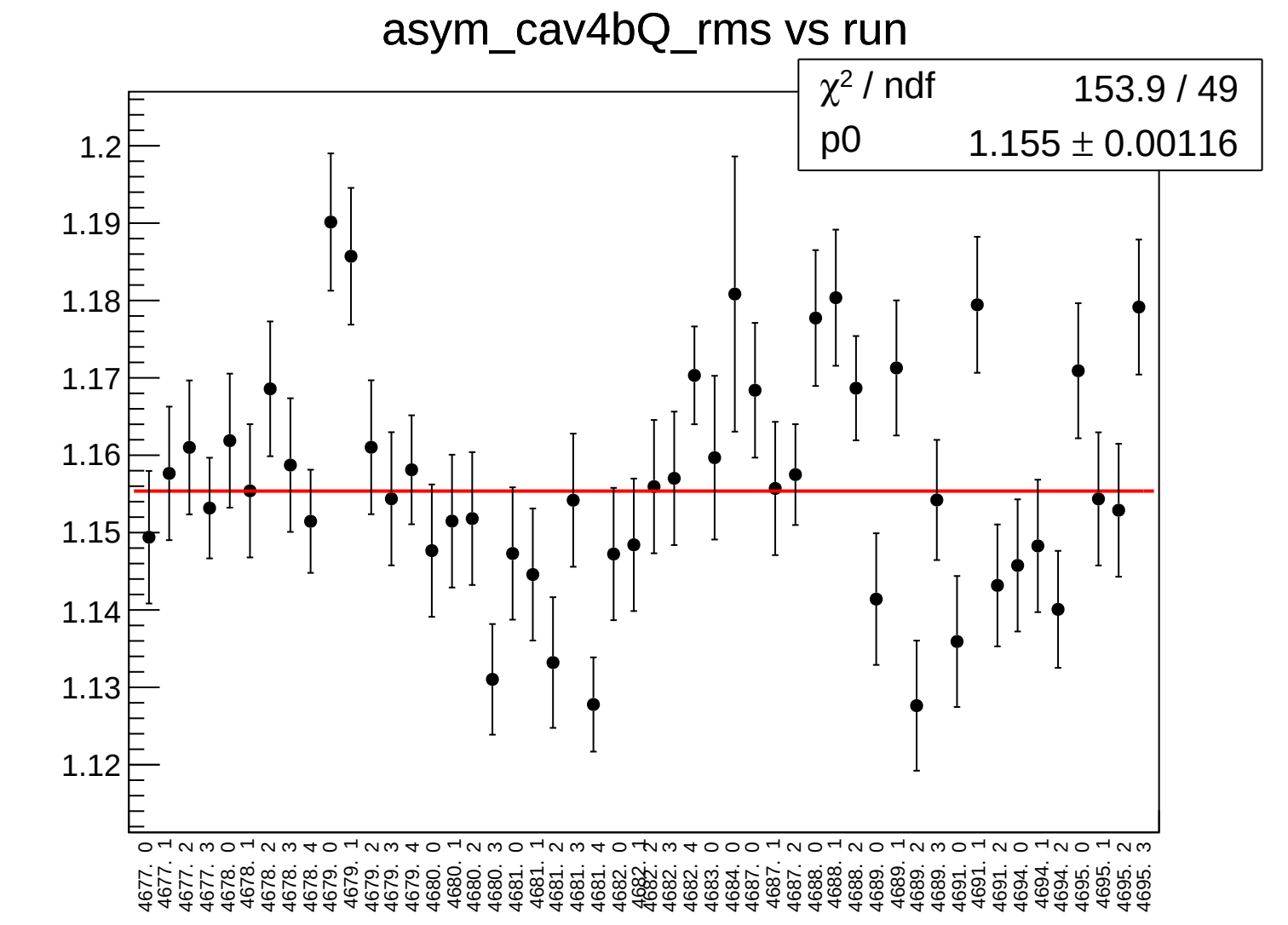
4695. 3


asym_cav4bQ_mean vs run
χ² / ndf 47.73 / 49
p0 1.721 ± 1.641
pull
Entries 50
Mean −182.9
Std Dev 208.7


pull1D
Entries 50
Mean −0.01137
Std Dev 0.977


asym_cav4bQ_rms vs run
χ² / ndf 153.9 / 49
p0 1.155 ± 0.00116
1.2
1.19
1.18
1.17
1.16
1.15
1.14
1.13
1.12
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4677. 3
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4678. 4
4679. 0
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4679. 4
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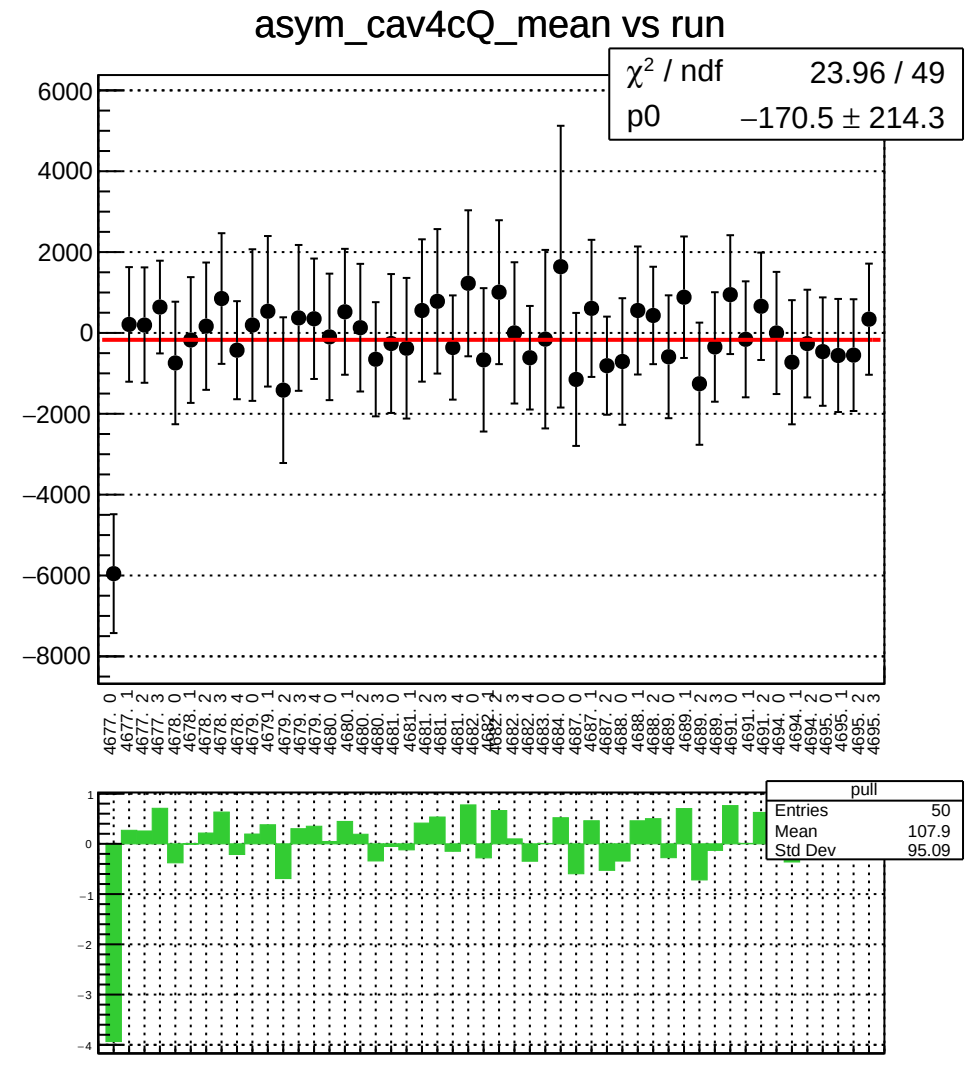
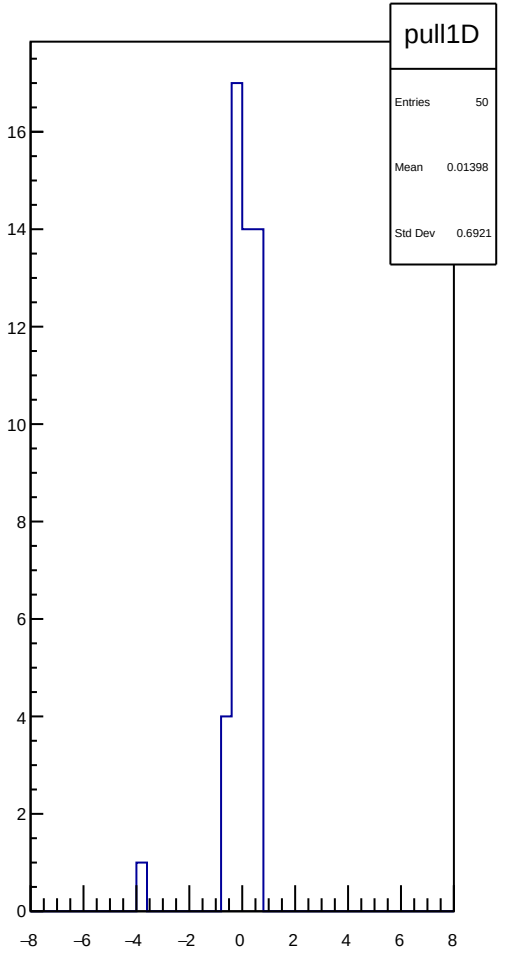
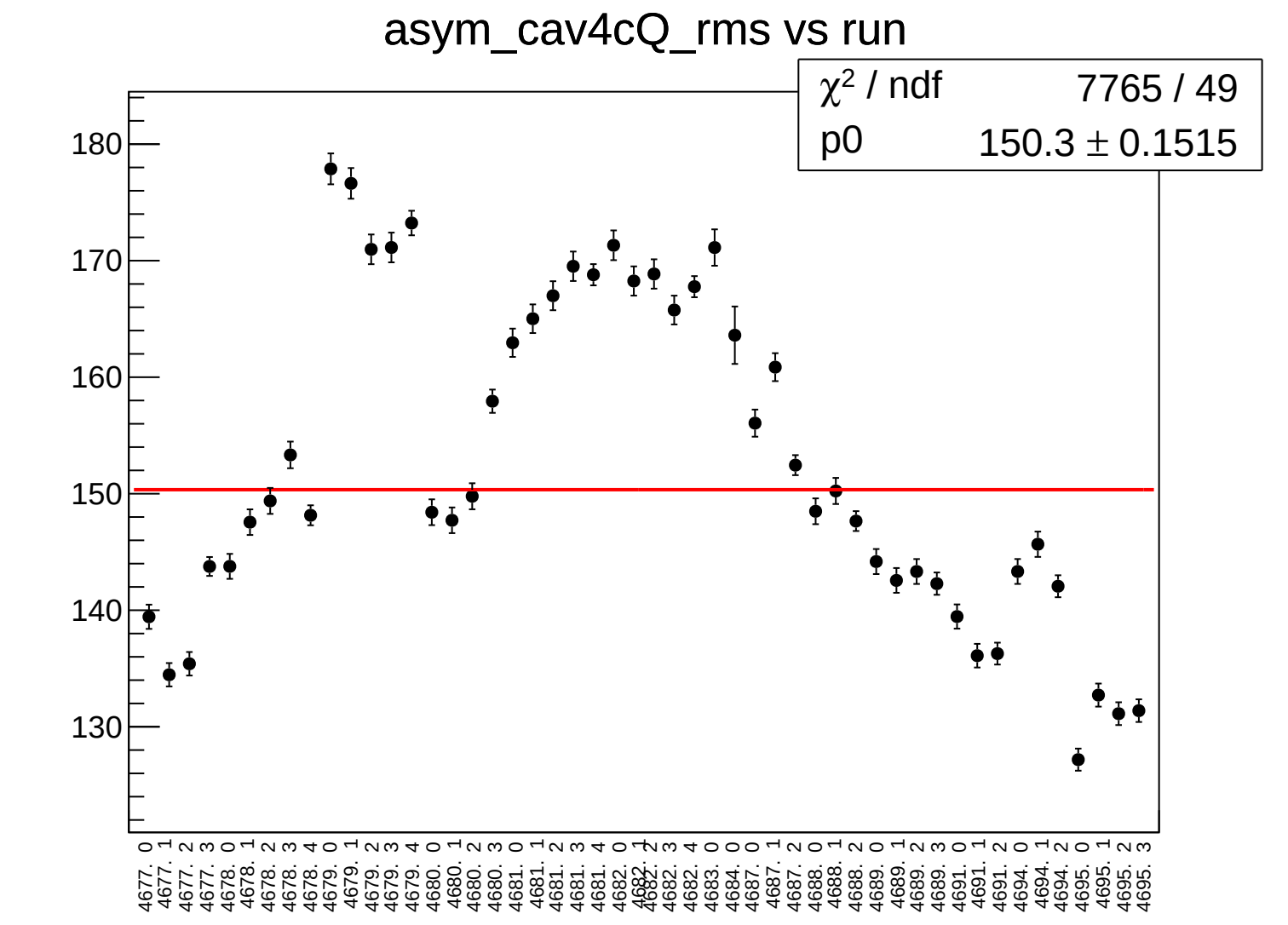

asym_cav4cQ_mean vs run
χ² / ndf 23.96 / 49
p0 −170.5 ± 214.3
pull
Entries 50
Mean 107.9
Std Dev 95.09


pull1D
Entries 50
Mean 0.01398
Std Dev 0.6921


asym_cav4cQ_rms vs run
χ² / ndf 7765 / 49
p0 150.3 ± 0.1515
180
170
160
150
140
130
4677. 0
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4677. 2
4677. 3
4678. 0
4678. 1
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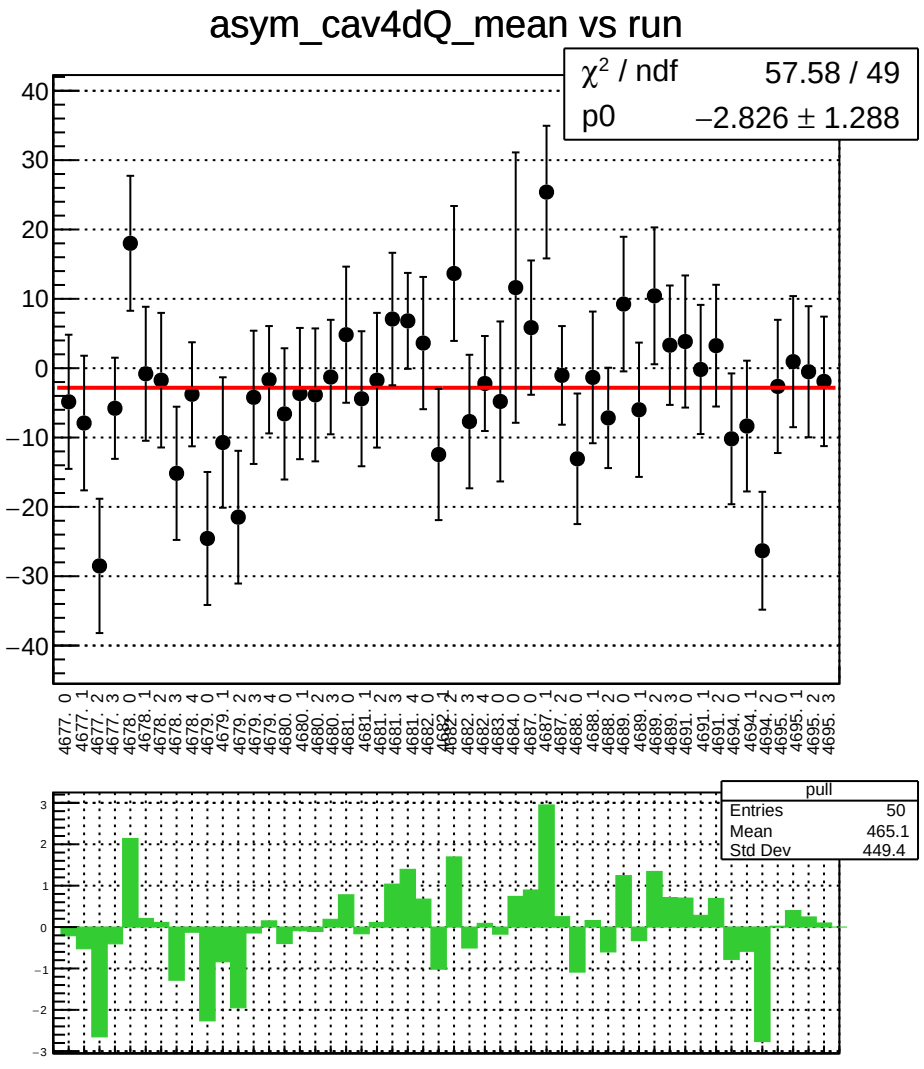
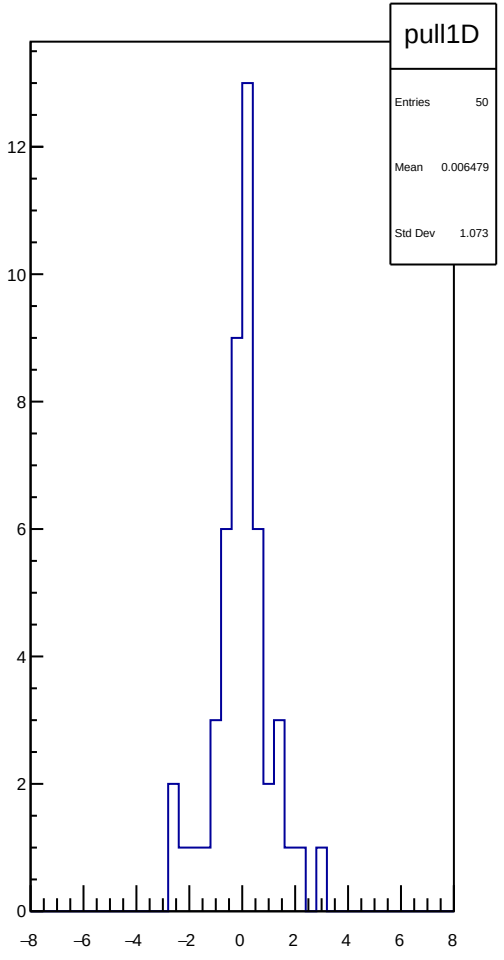
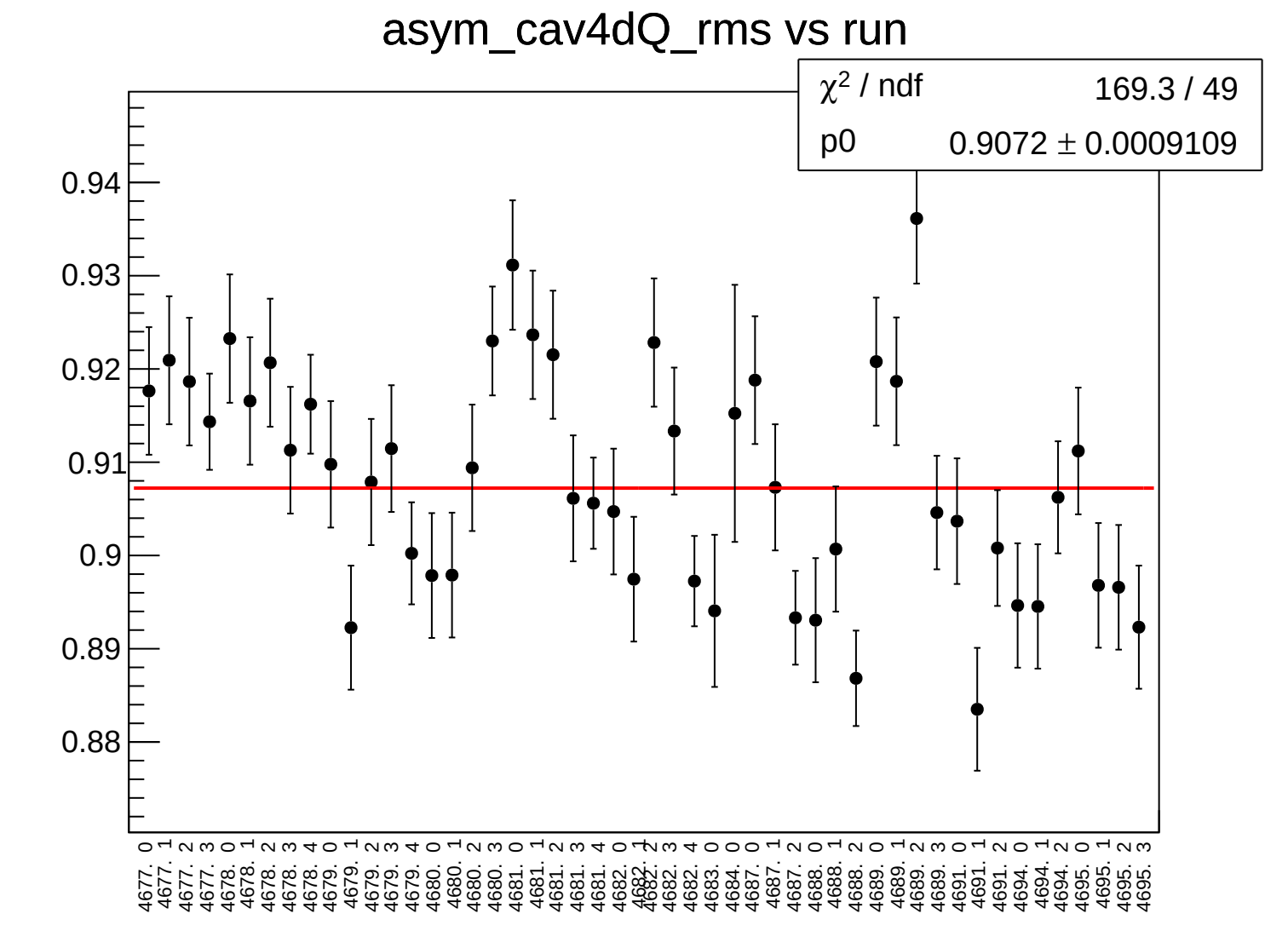

asym_cav4dQ_mean vs run
χ² / ndf 57.58 / 49
p0 −2.826 ± 1.288
pull
Entries 50
Mean 465.1
Std Dev 449.4


pull1D
Entries 50
Mean 0.006479
Std Dev 1.073


asym_cav4dQ_rms vs run
χ² / ndf 169.3 / 49
p0 0.9072 ± 0.0009109
0.94
0.93
0.92
0.91
0.9
0.89
0.88
4677. 0
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4678. 3
4678. 4
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4680. 2
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4681. 0
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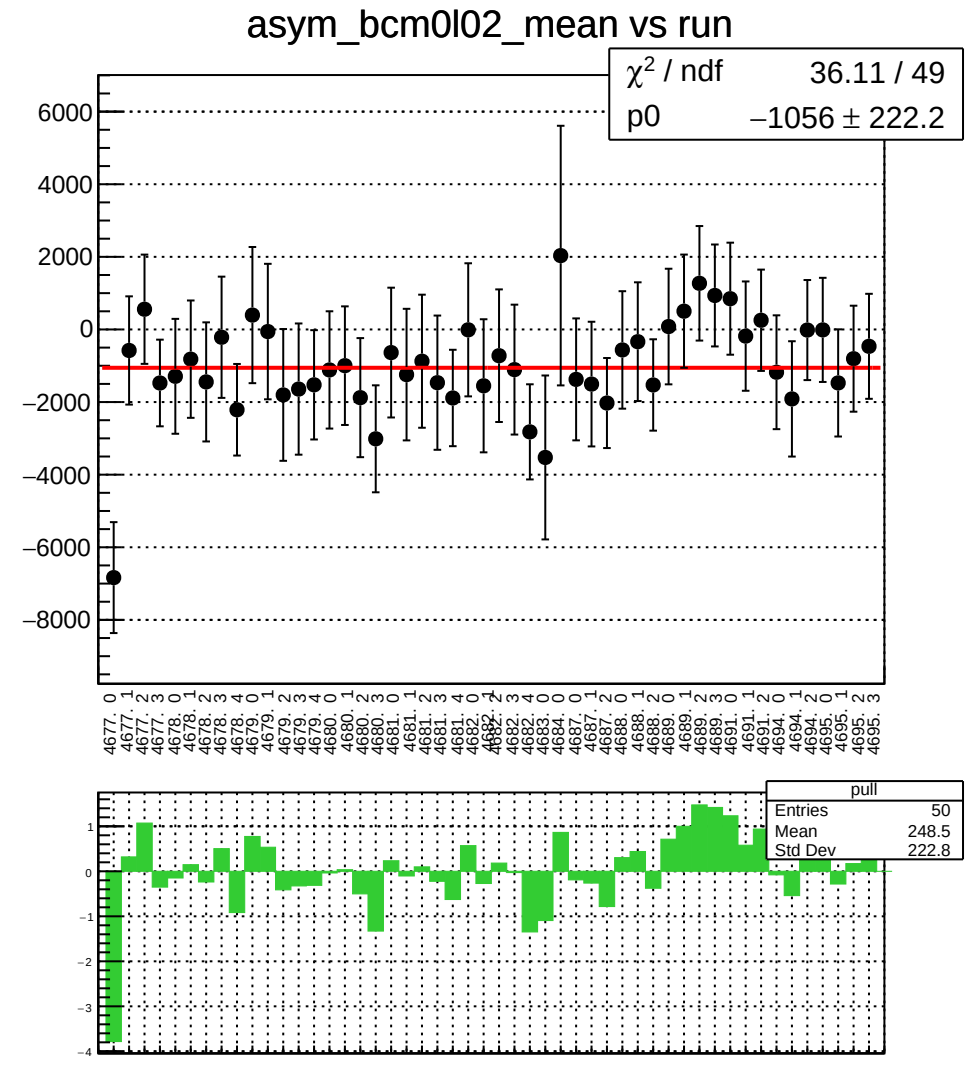
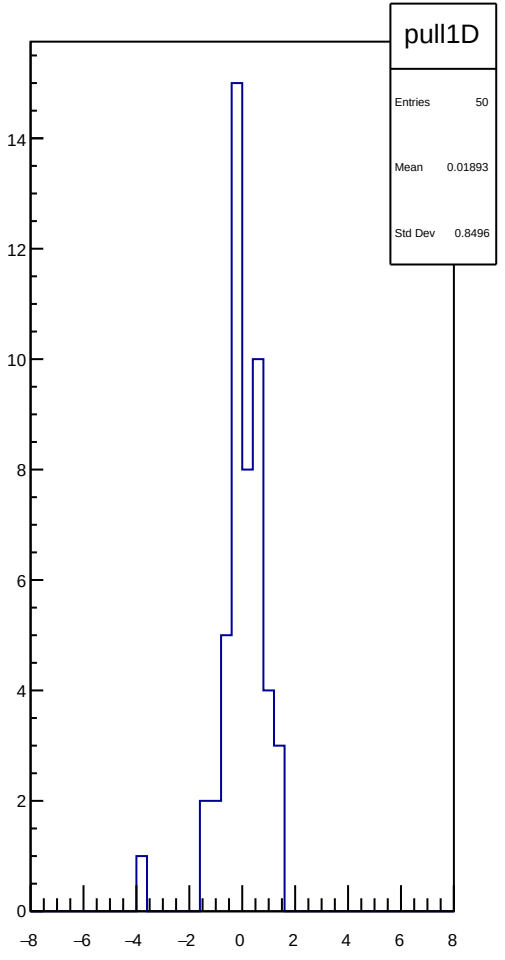
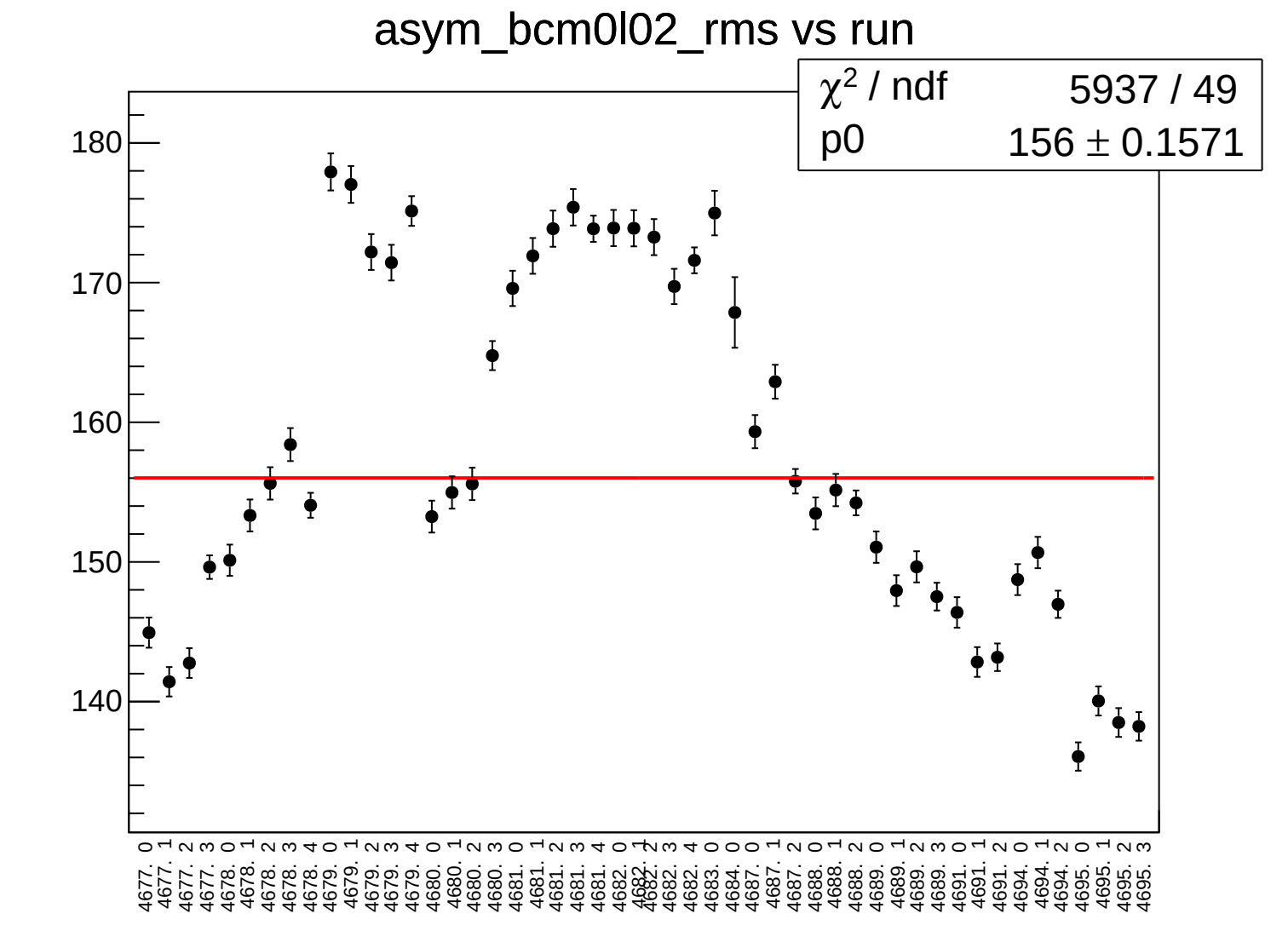

asym_bcm0l02_mean vs run
χ² / ndf 36.11 / 49
p0 −1056 ± 222.2
pull
Entries 50
Mean 248.5
Std Dev 222.8


pull1D
Entries 50
Mean 0.01893
Std Dev 0.8496


asym_bcm0l02_rms vs run
χ² / ndf 5937 / 49
p0 156 ± 0.1571
180
170
160
150
140
4677. 0
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4677. 2
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4682. 1
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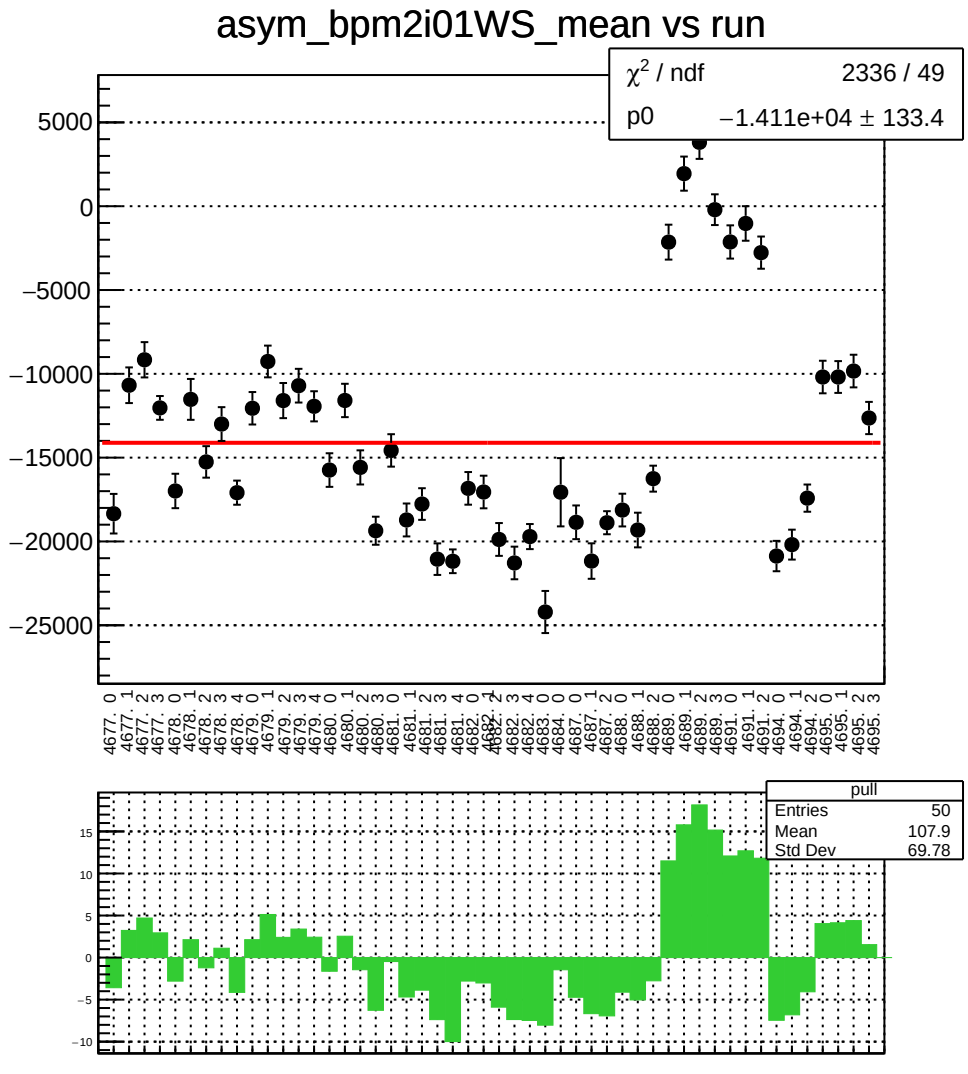
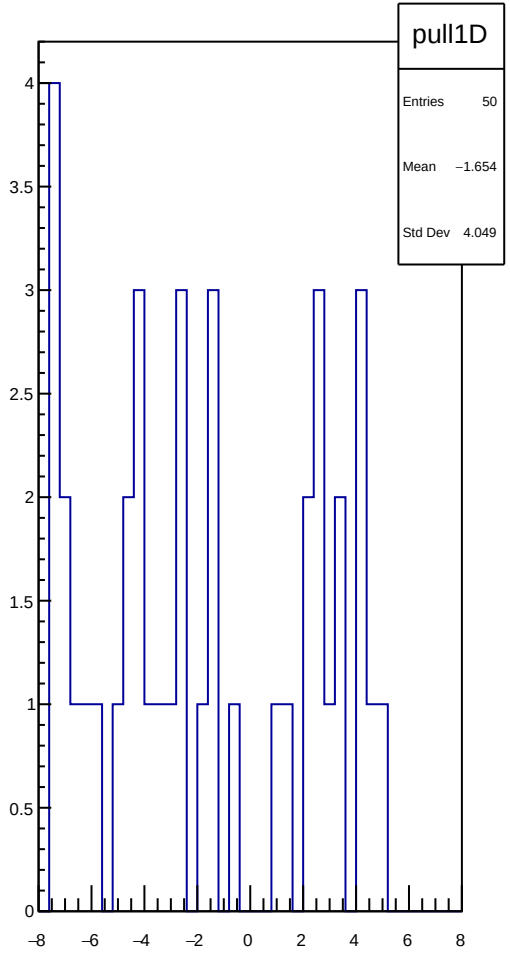
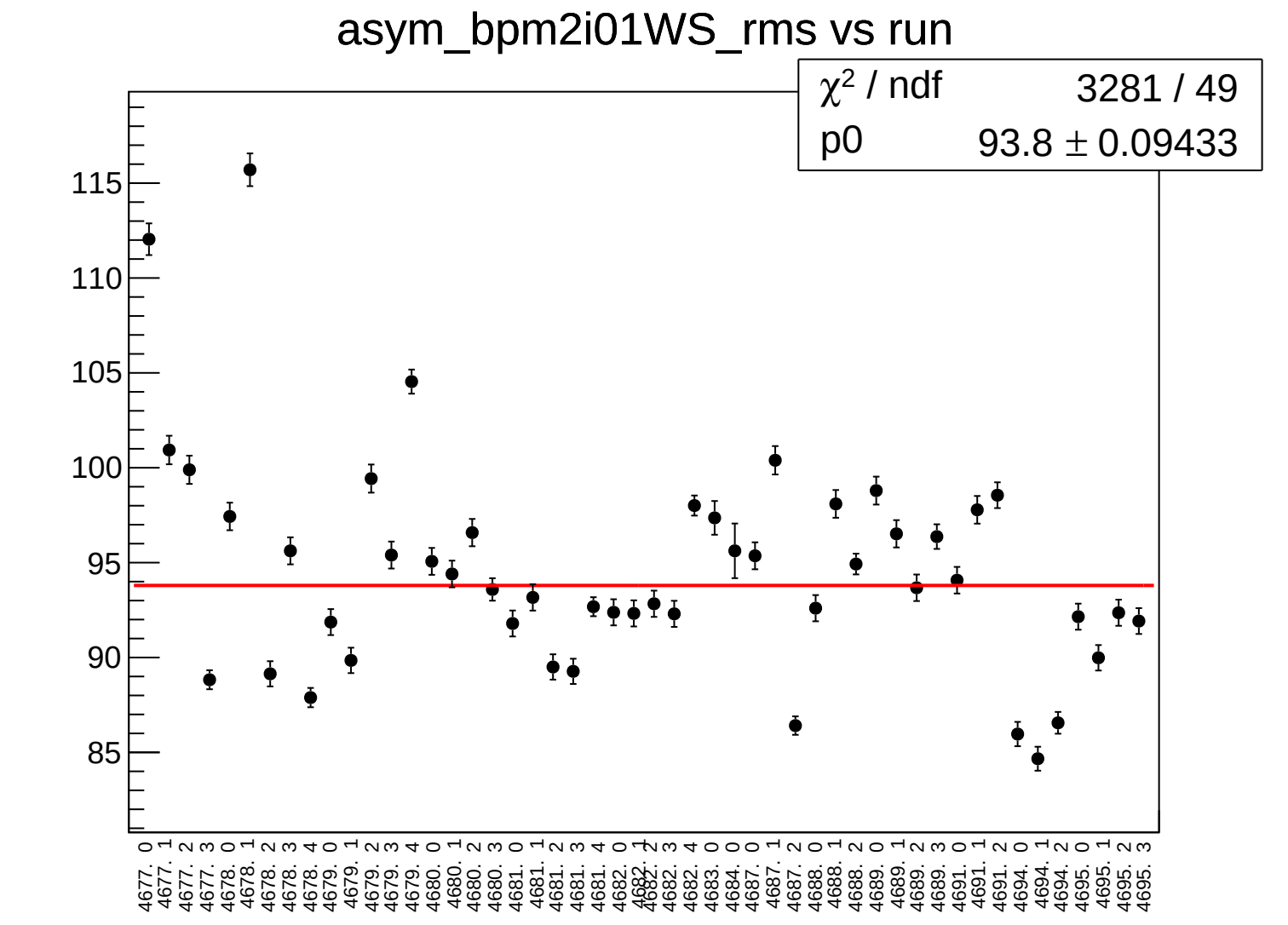

asym_bpm2i01WS_mean vs run
χ² / ndf 2336 / 49
p0 −1.411e+04 ± 133.4
pull
Entries 50
Mean 107.9
Std Dev 69.78


pull1D
Entries 50
Mean −1.654
Std Dev 4.049


asym_bpm2i01WS_rms vs run
χ² / ndf 3281 / 49
p0 93.8 ± 0.09433
115
110
105
100
95
90
85
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
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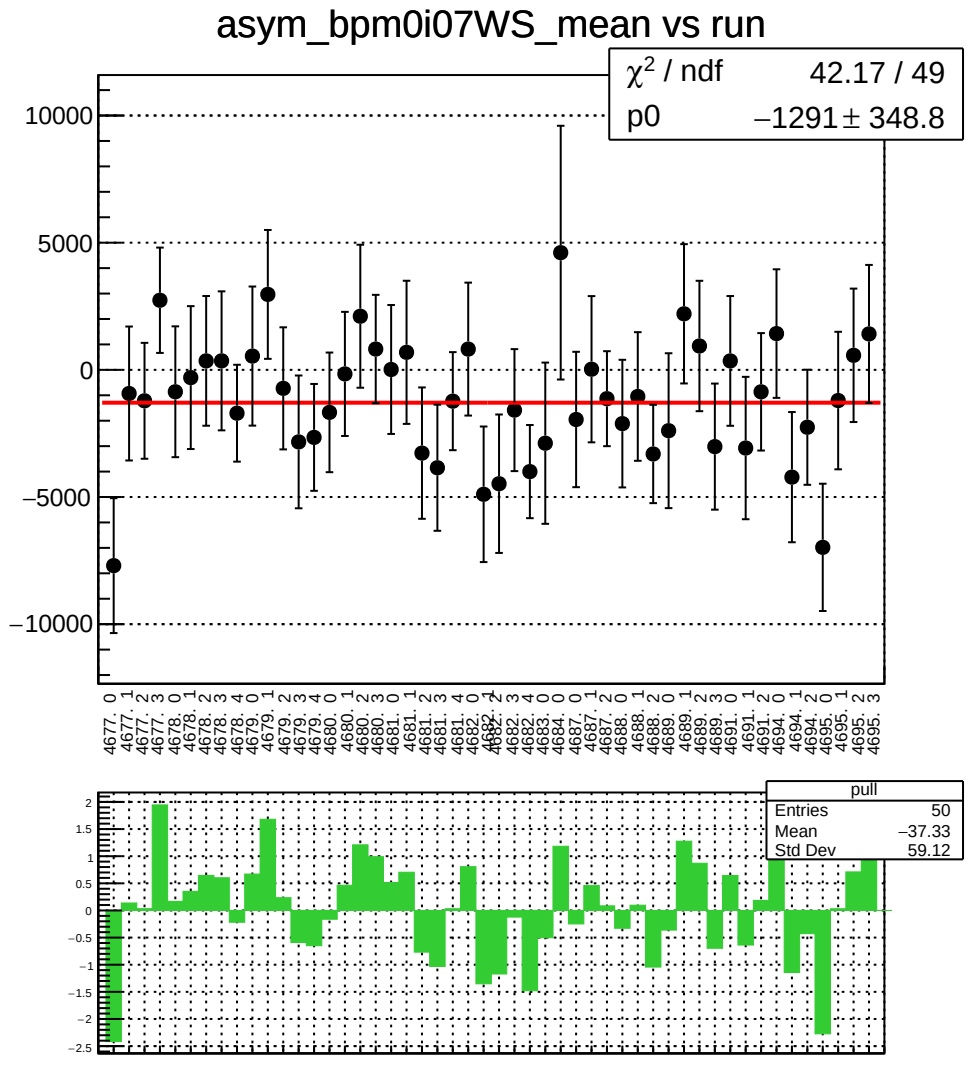
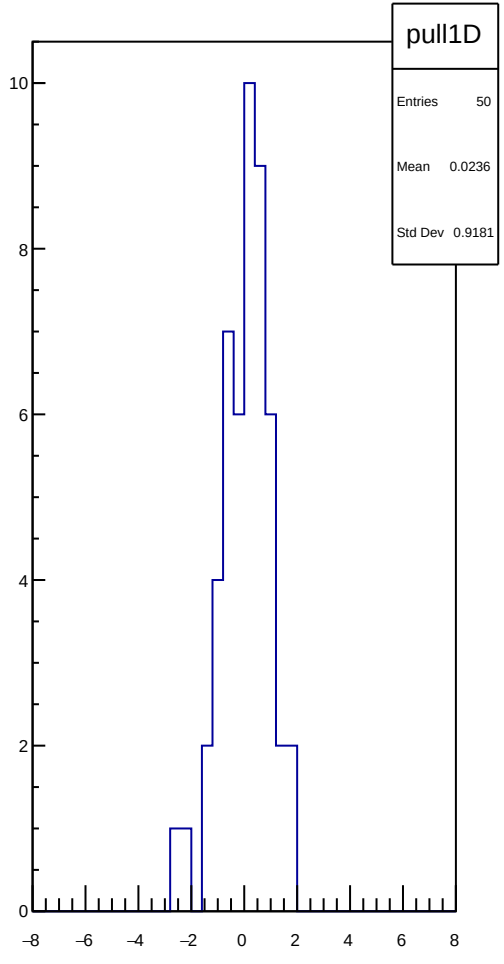
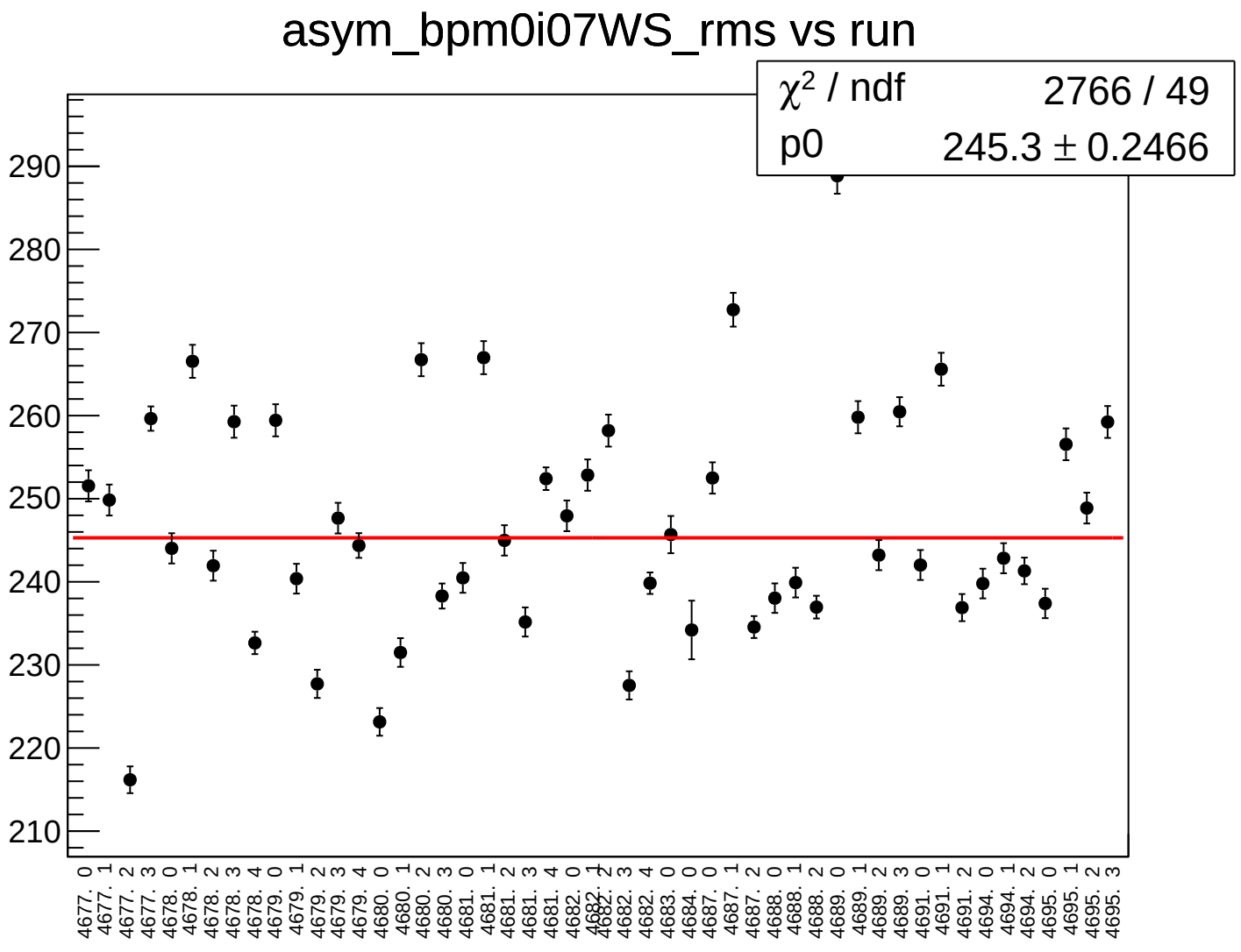
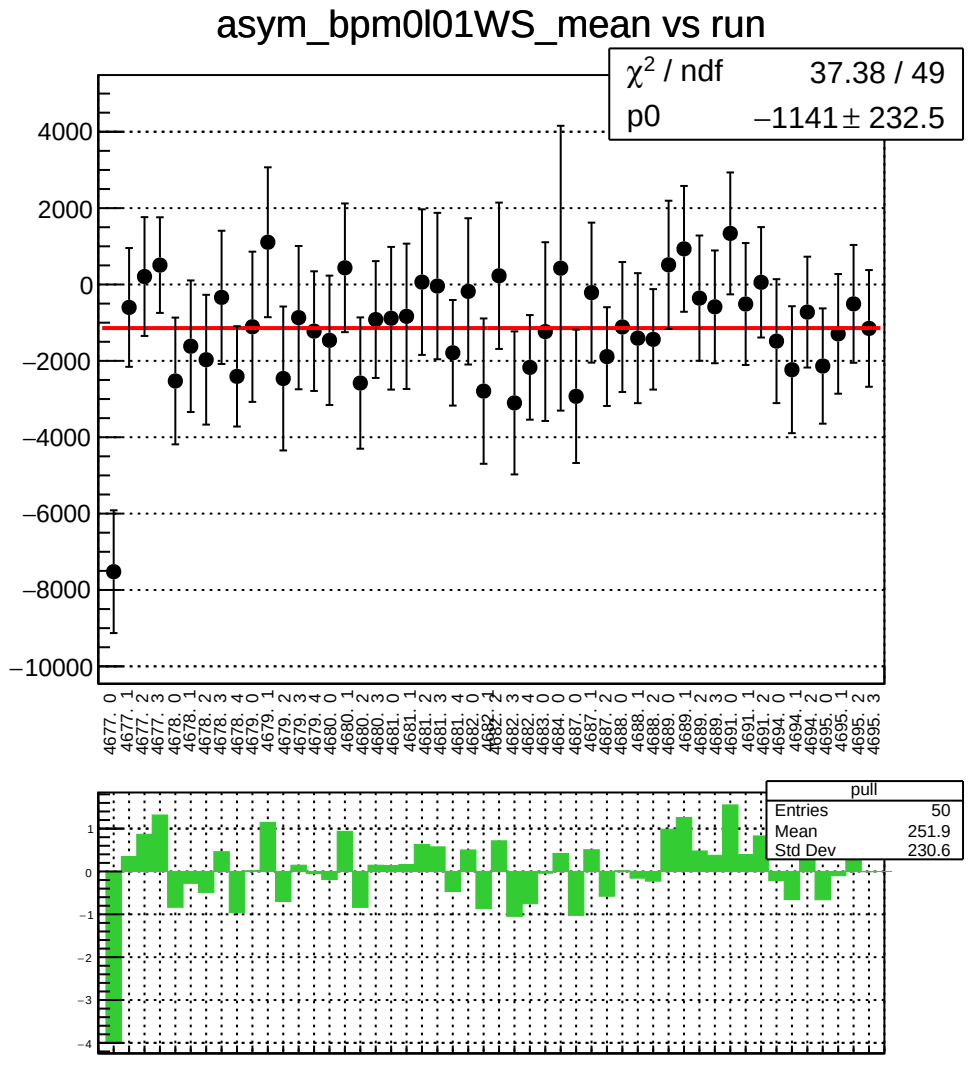
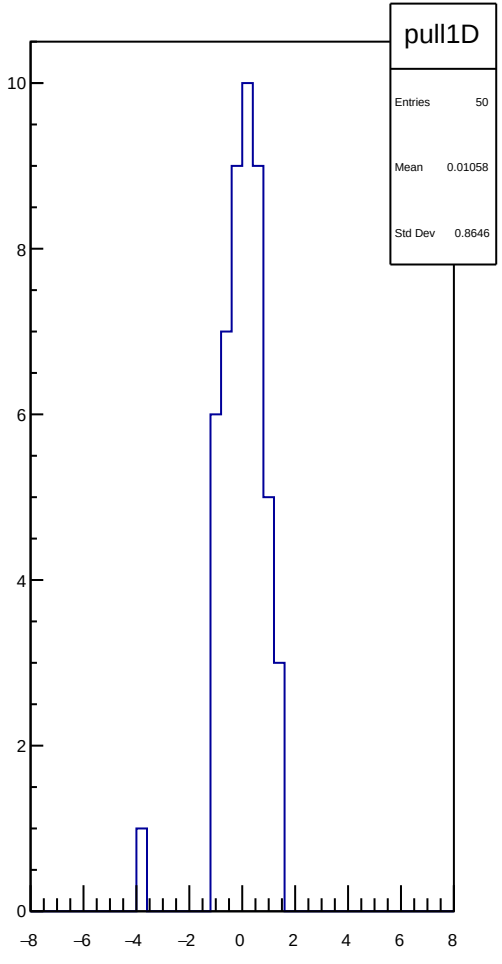
4695. 2
4695. 3

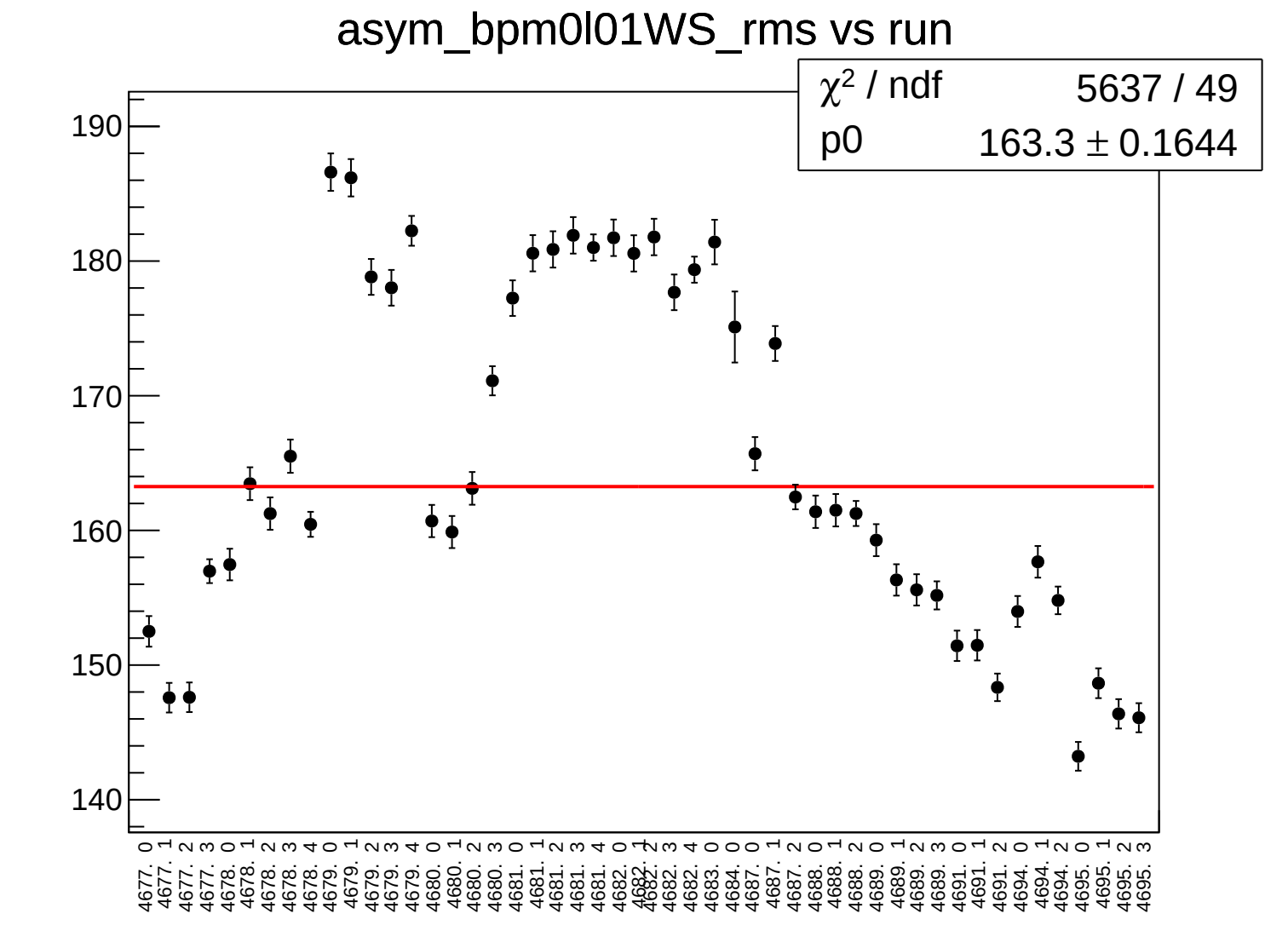

asym_bpm0i07WS_mean vs run
χ² / ndf 42.17 / 49
p0 −1291 ± 348.8
10000
5000
0
−5000
−10000
pull
Entries 50
Mean −37.33
Std Dev 59.12
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 50
Mean 0.0236
Std Dev 0.9181
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i07WS_rms vs run
χ² / ndf 2766 / 49
p0 245.3 ± 0.2466
290
280
270
260
250
240
230
220
210
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_bpm0l01WS_mean vs run
χ² / ndf 37.38 / 49
p0 −1141 ± 232.5
pull
Entries 50
Mean 251.9
Std Dev 230.6


pull1D
Entries 50
Mean 0.01058
Std Dev 0.8646


asym_bpm0l01WS_rms vs run
χ² / ndf 5637 / 49
p0 163.3 ± 0.1644
190
180
170
160
150
140
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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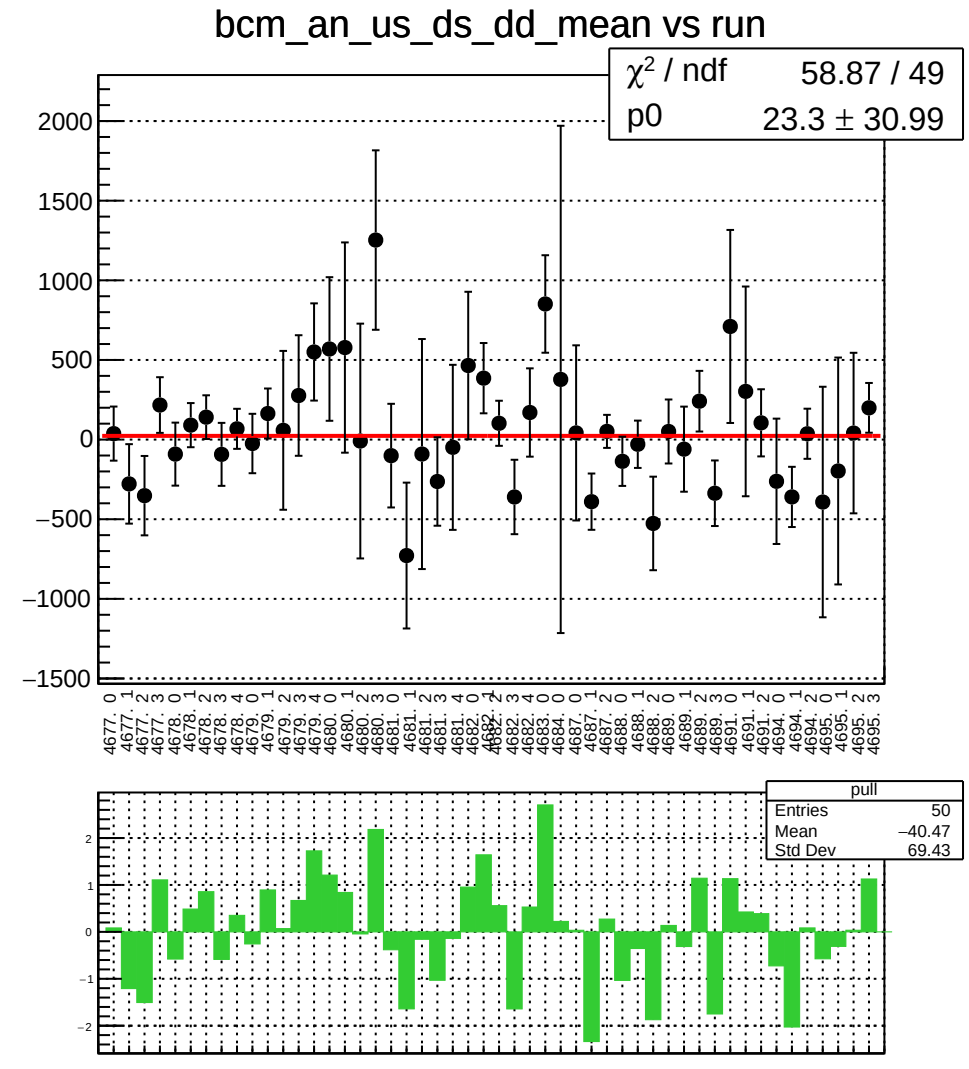
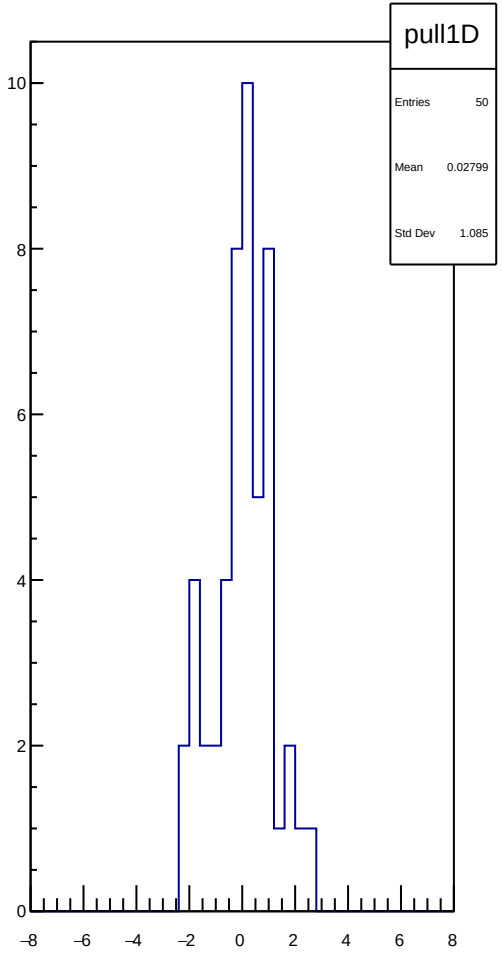
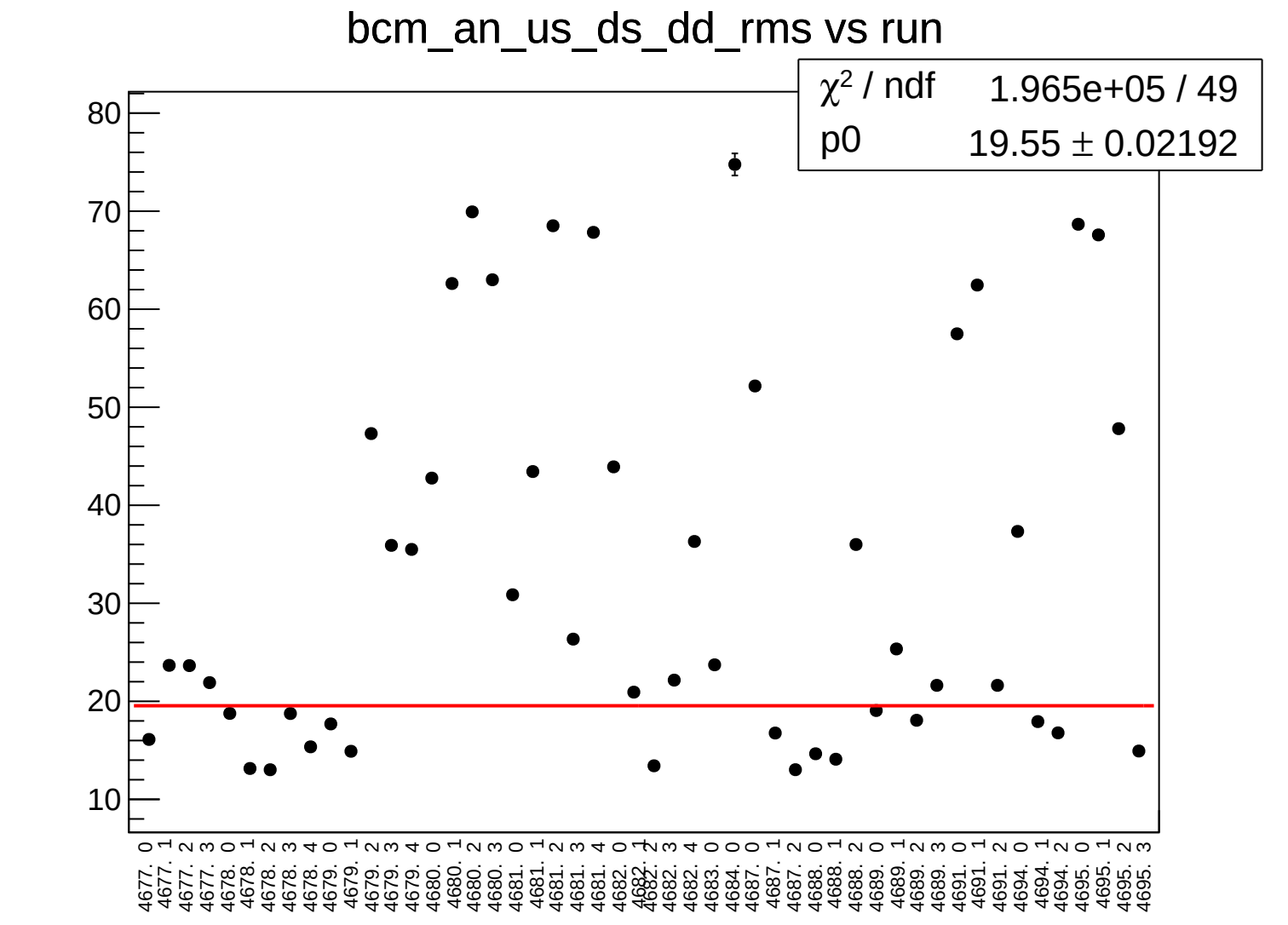
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


bcm_an_us_ds_dd_mean vs run
χ^2 / ndf 58.87 / 49
p0 23.3 ± 30.99
pull
Entries 50
Mean −40.47
Std Dev 69.43


pull1D
Entries 50
Mean 0.02799
Std Dev 1.085


bcm_an_us_ds_dd_rms vs run
χ^2 / ndf 1.965e+05 / 49
p0 19.55 ± 0.02192
80
70
60
50
40
30
20
10
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
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4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
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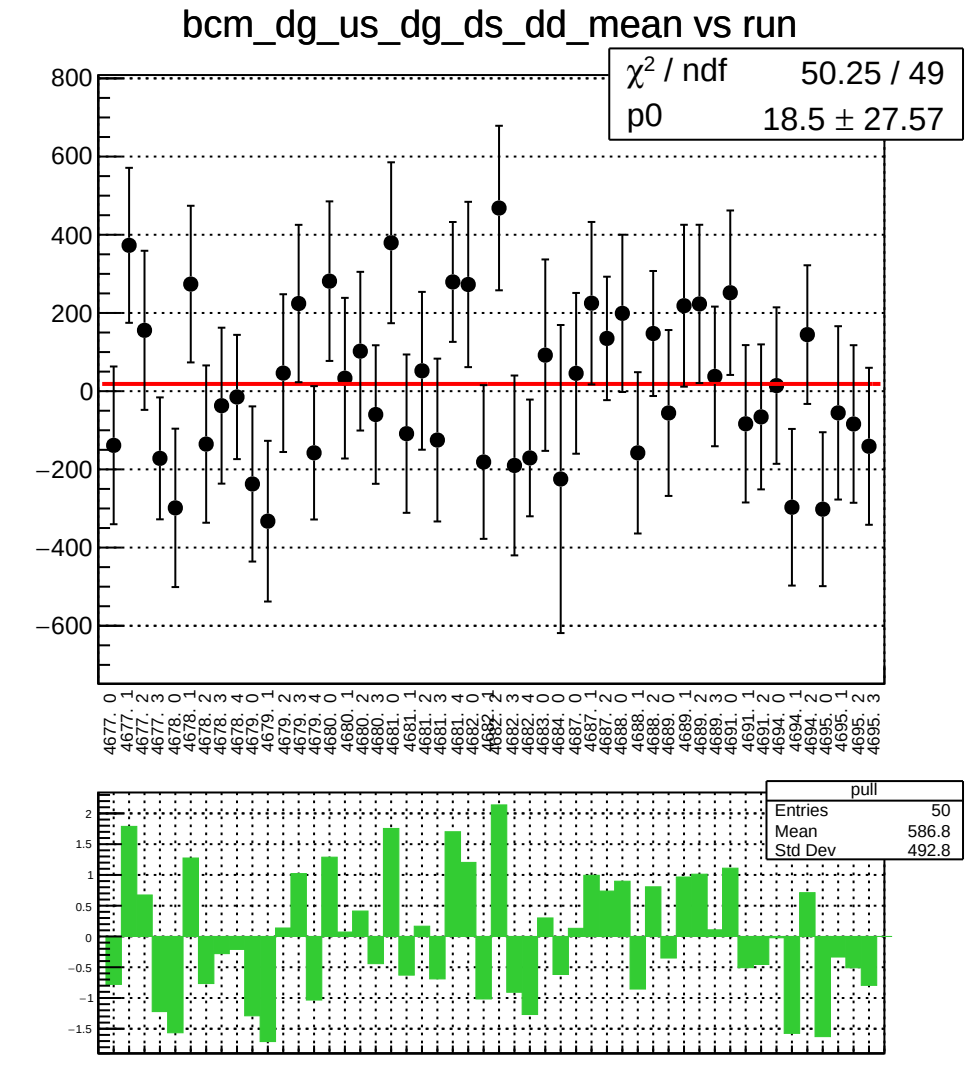
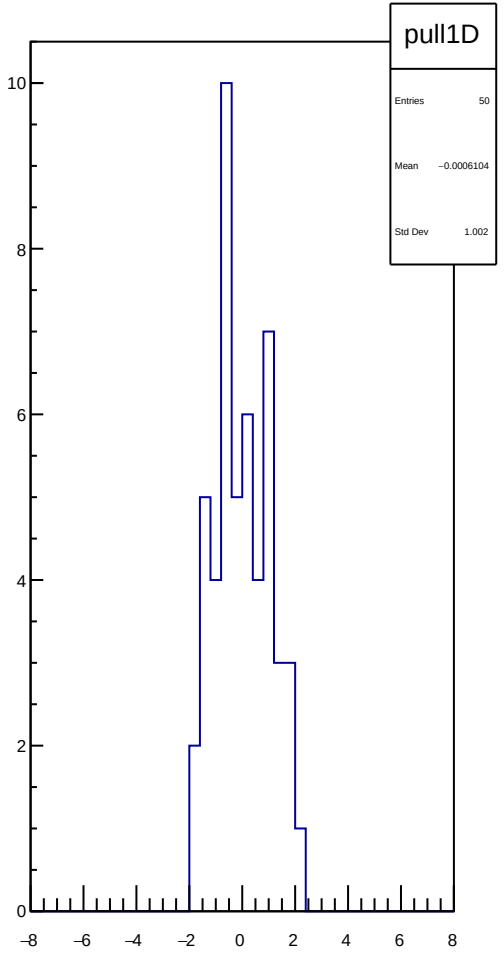
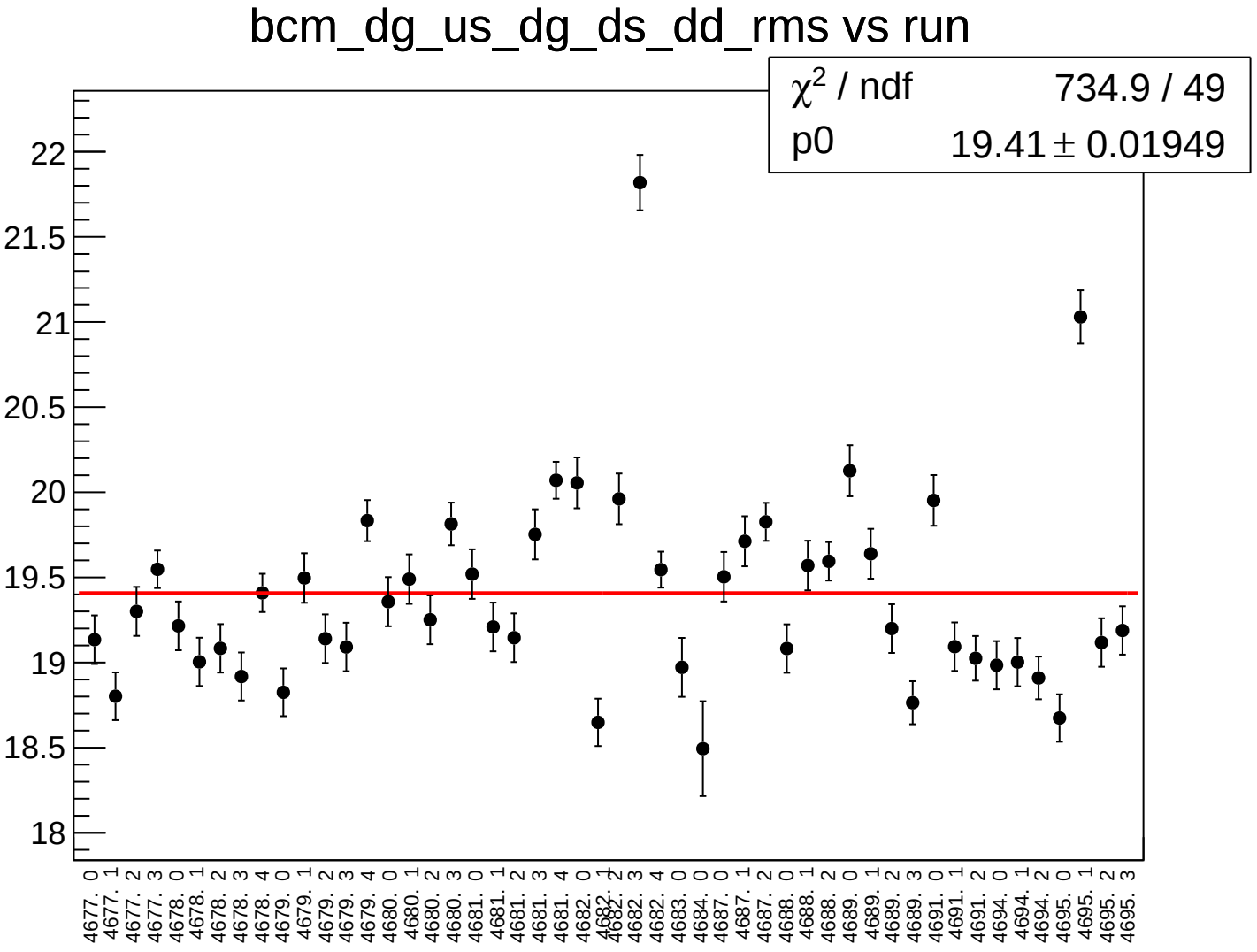
4695. 2
4695. 3


bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 50.25 / 49
p0 18.5 ± 27.57
pull
Entries 50
Mean 586.8
Std Dev 492.8


pull1D
Entries 50
Mean −0.0006104
Std Dev 1.002


bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 734.9 / 49
p0 19.41 ± 0.01949
22
21.5
21
20.5
20
19.5
19
18.5
18
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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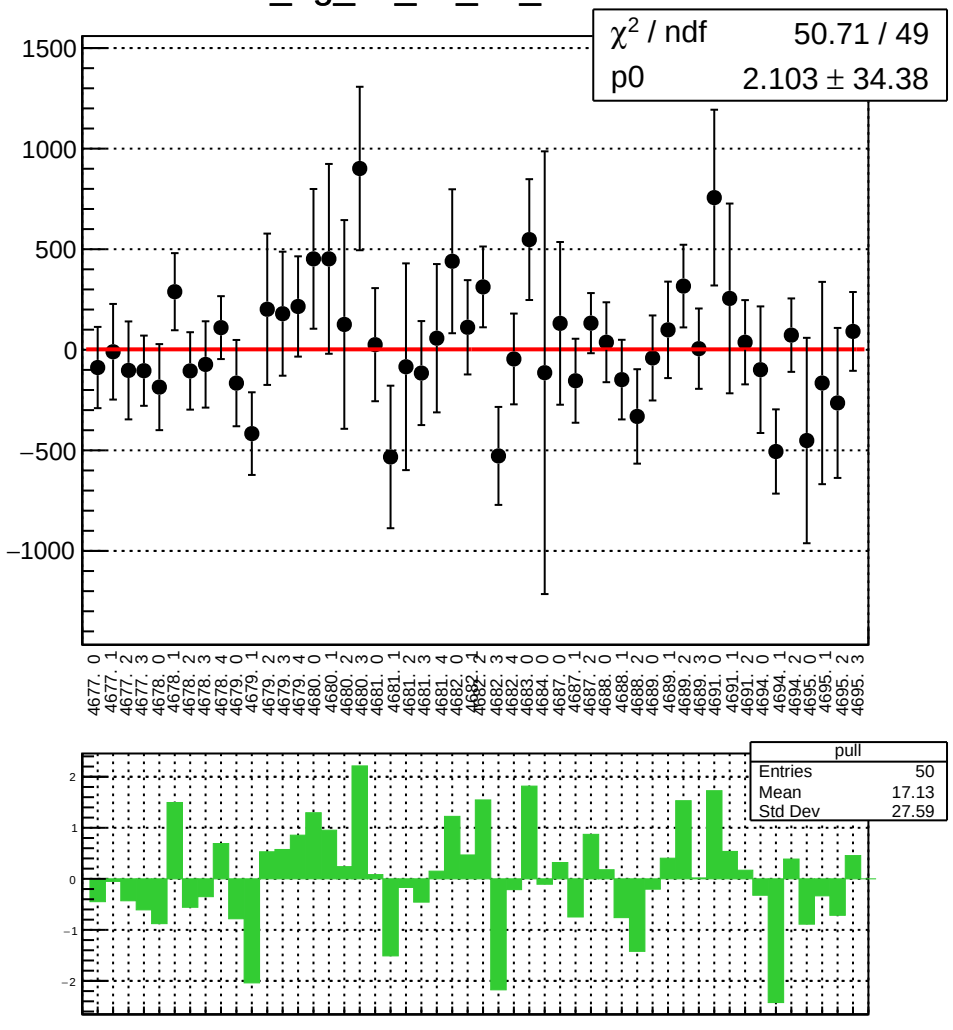
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


bcm_dg_us_ds_dd_mean vs run
χ^2 / ndf 50.71 / 49
p0 2.103 ± 34.38
1500
1000
500
0
−500
−1000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
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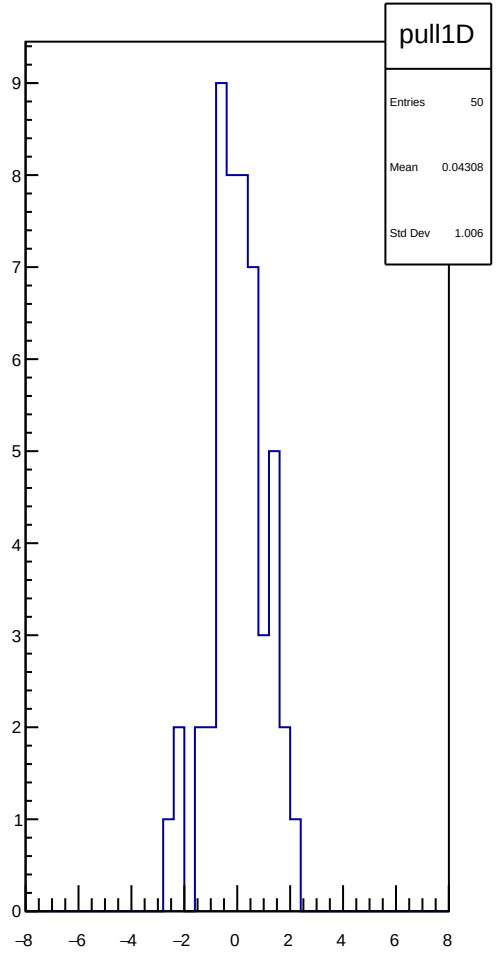
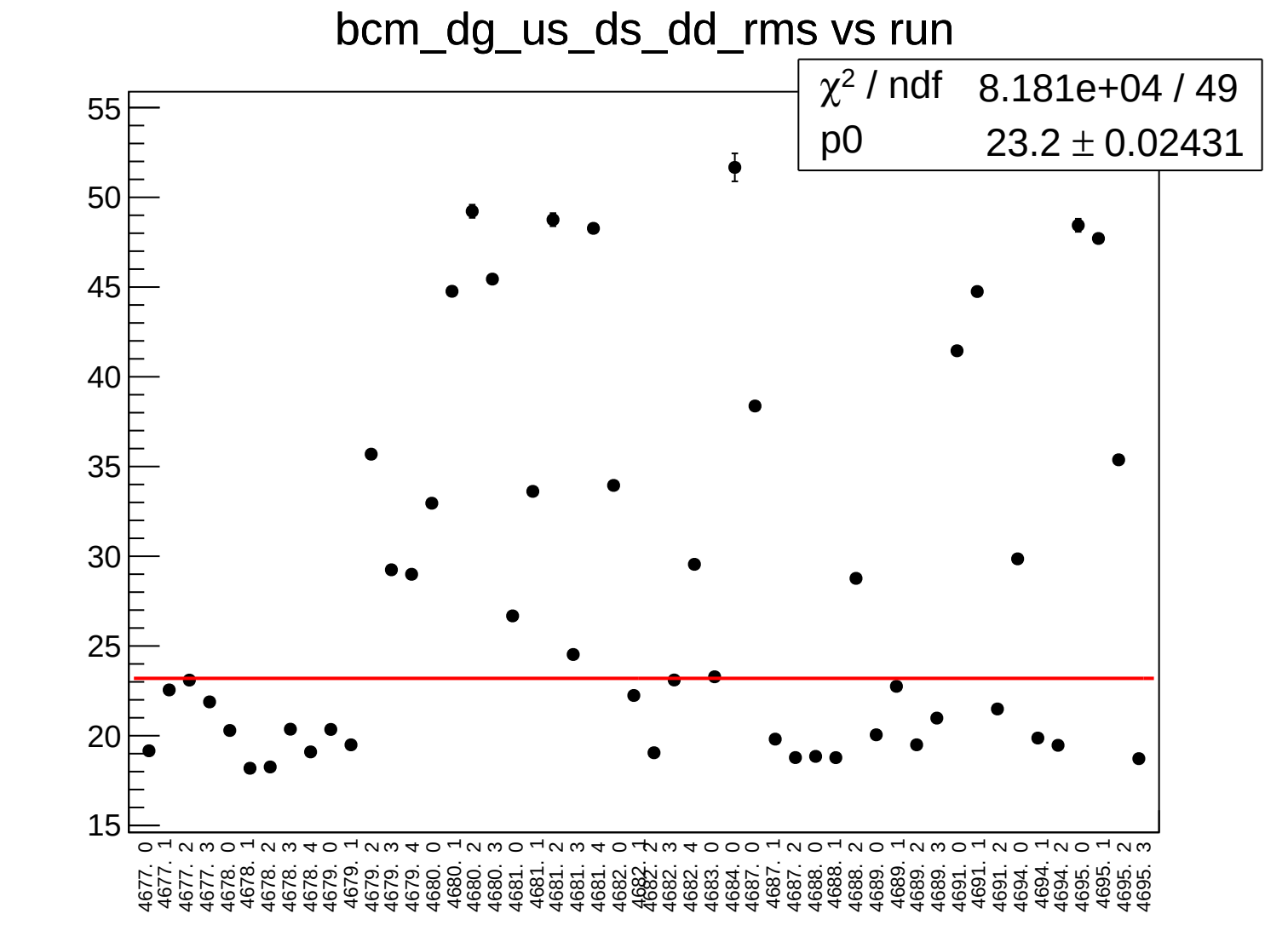
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 17.13
Std Dev 27.59
2
1
0
−1
−2


pull1D
Entries 50
Mean 0.04308
Std Dev 1.006
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


bcm_dg_us_ds_dd_rms vs run
χ² / ndf 8.181e+04 / 49
p0 23.2 ± 0.02431
55
50
45
40
35
30
25
20
15
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4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
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4695. 0
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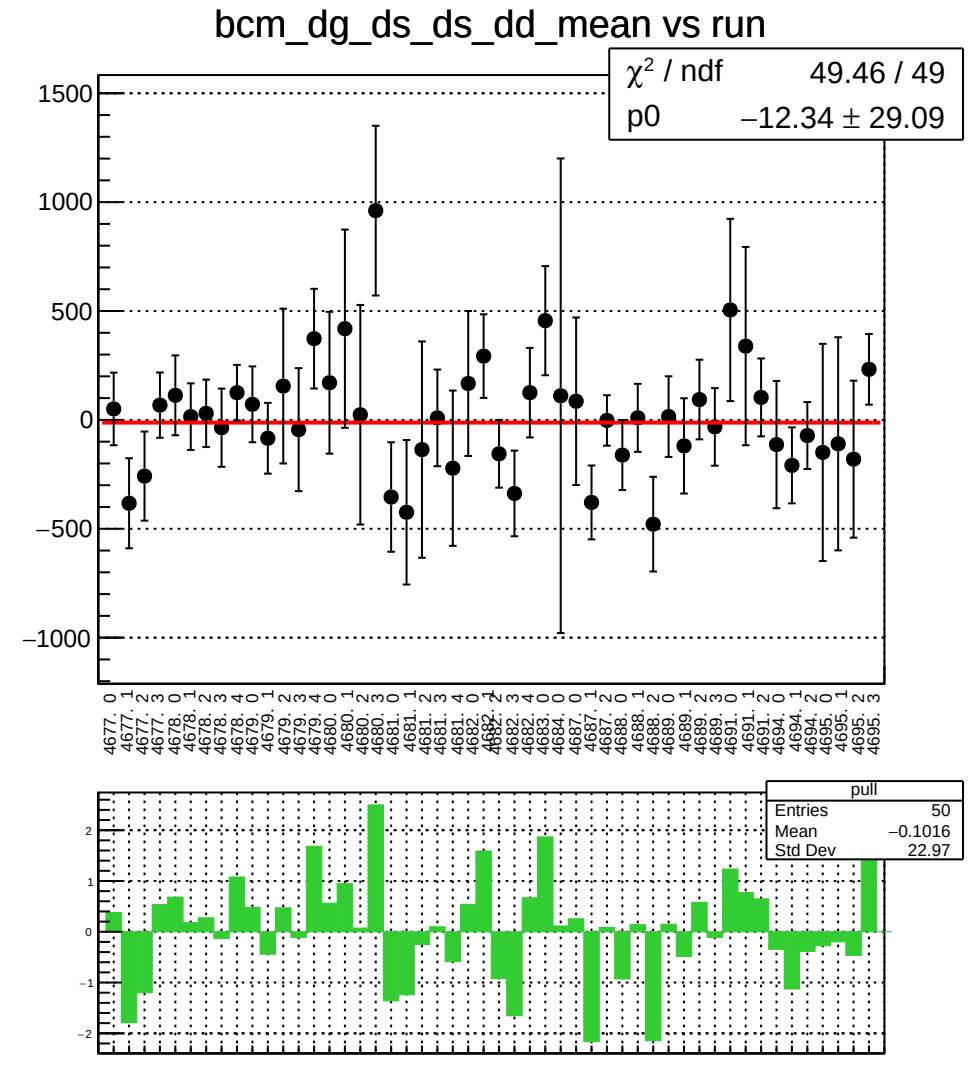
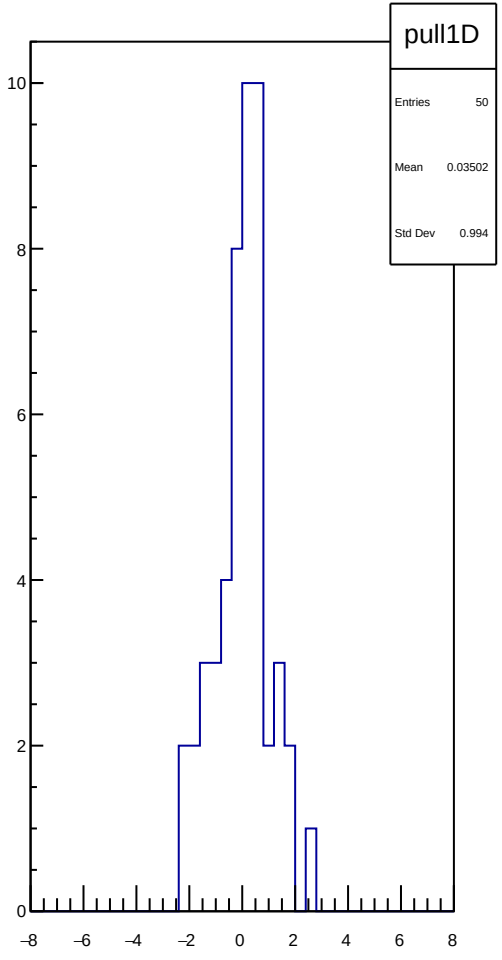
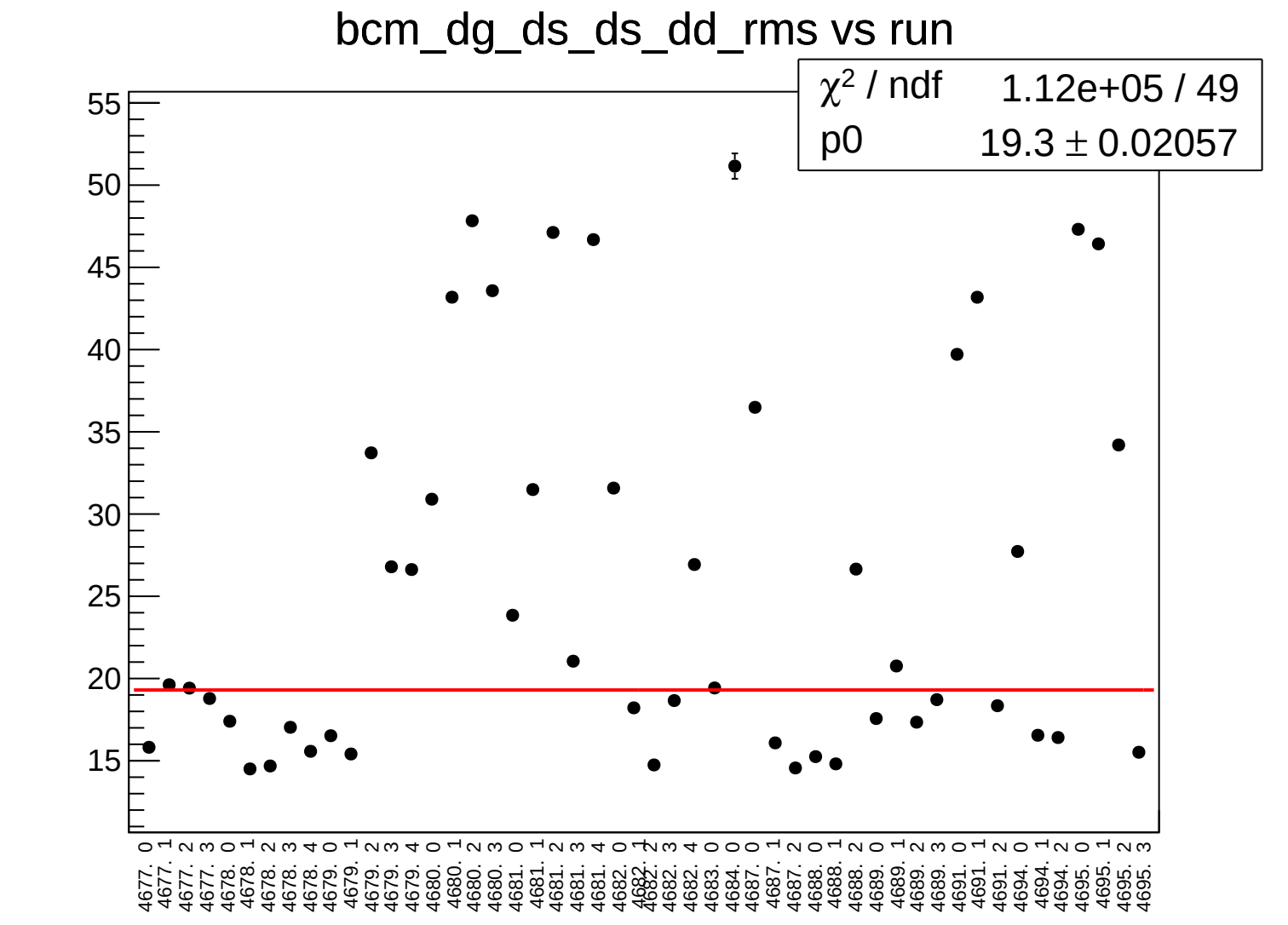
4695. 2
4695. 3


bcm_dg_ds_ds_dd_mean vs run
χ² / ndf 49.46 / 49
p0 −12.34 ± 29.09
pull
Entries 50
Mean −0.1016
Std Dev 22.97


pull1D
Entries 50
Mean 0.03502
Std Dev 0.994


bcm_dg_ds_ds_dd_rms vs run
χ² / ndf 1.12e+05 / 49
p0 19.3 ± 0.02057
55
50
45
40
35
30
25
20
15
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
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4679. 4
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4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
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4681. 4
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4687. 2
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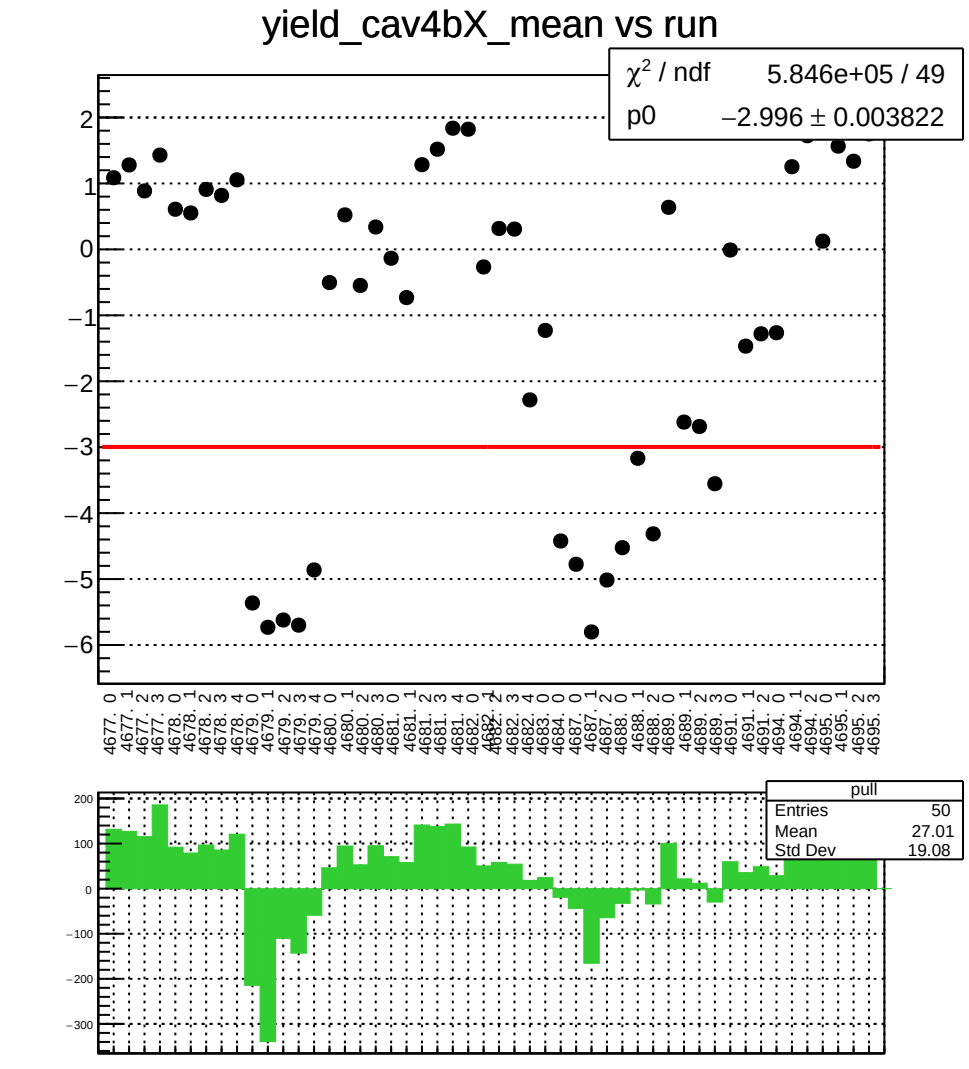
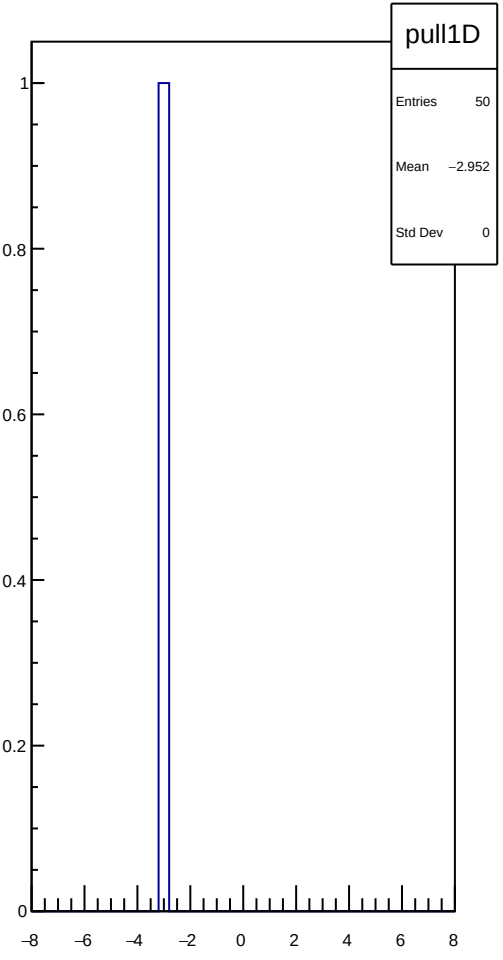
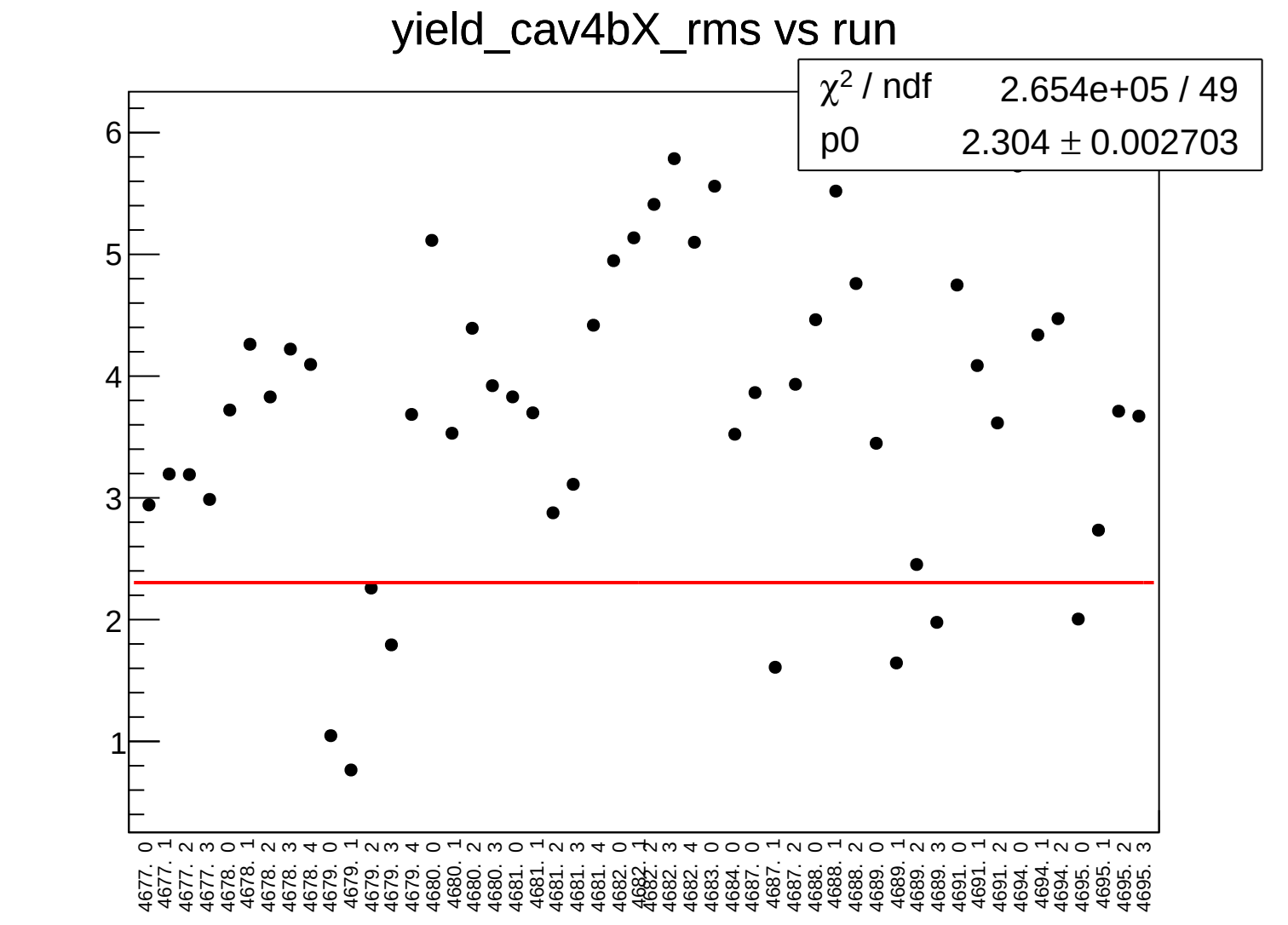
4695. 3


yield_cav4bX_mean vs run
χ² / ndf 5.846e+05 / 49
p0 −2.996 ± 0.003822
pull
Entries 50
Mean 27.01
Std Dev 19.08


pull1D
Entries 50
Mean −2.952
Std Dev 0


yield_cav4bX_rms vs run
χ^2 / ndf 2.654e+05 / 49
p0 2.304 ± 0.002703
6
5
4
3
2
1
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
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4678. 3
4678. 4
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4679. 2
4679. 3
4679. 4
4680. 0
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4680. 2
4680. 3
4681. 0
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4681. 3
4681. 4
4682. 0
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4682. 3
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4683. 0
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4687. 1
4687. 2
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4688. 1
4688. 2
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4695. 0
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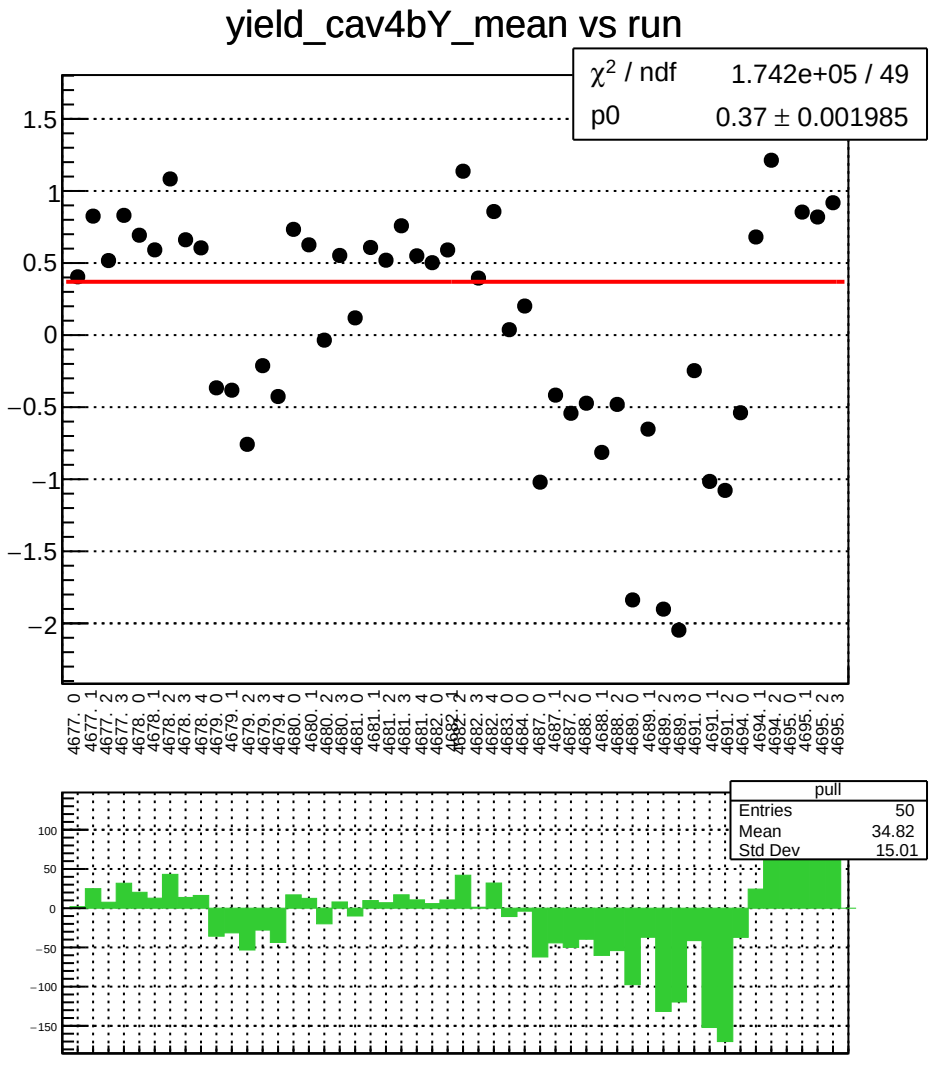
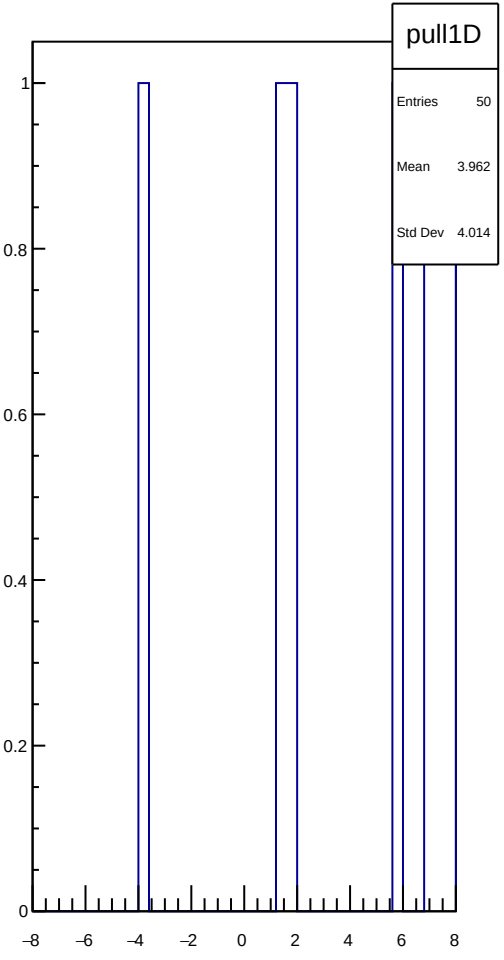
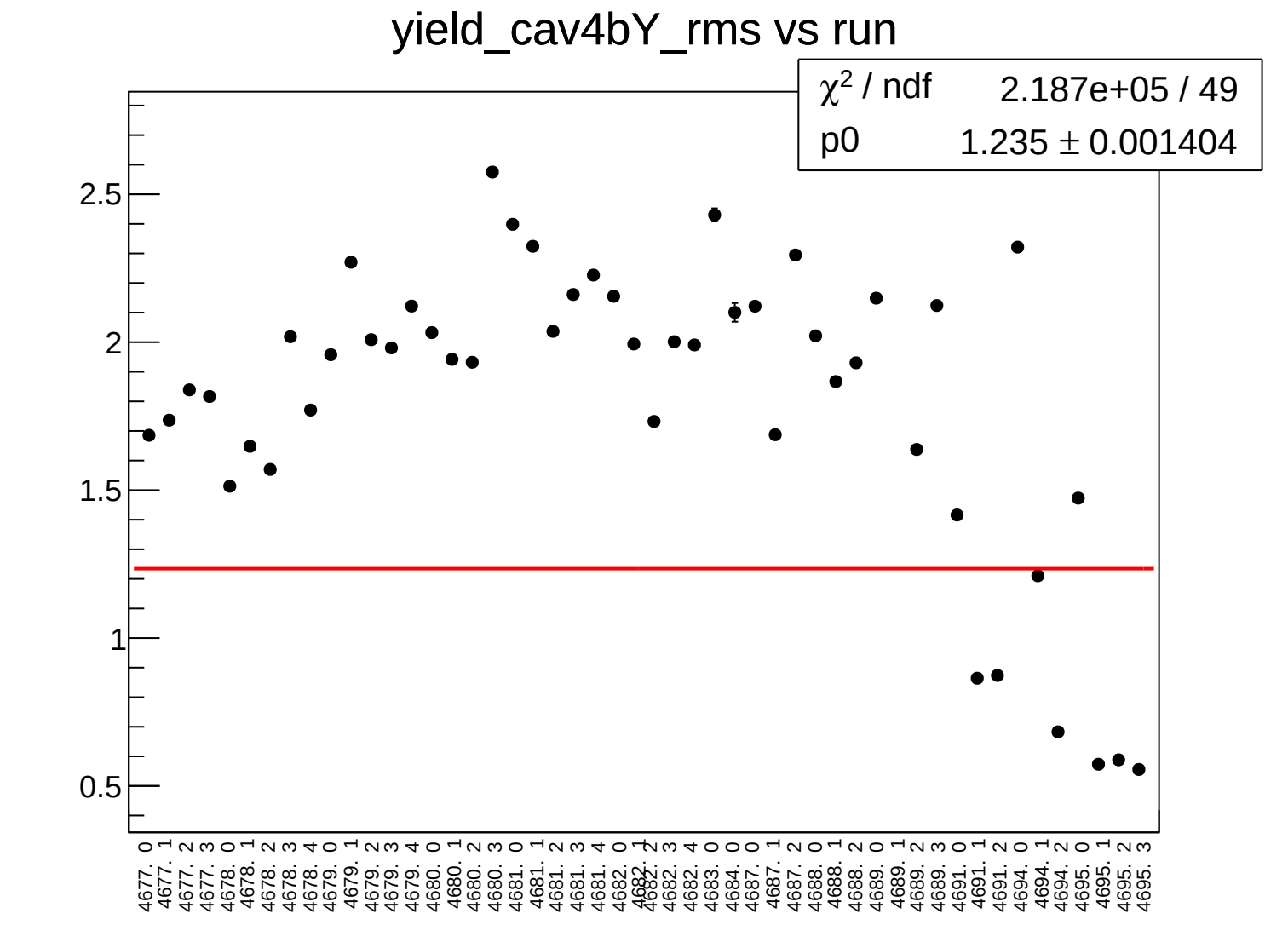
4695. 2
4695. 3


yield_cav4bY_mean vs run
χ² / ndf 1.742e+05 / 49
p0 0.37 ± 0.001985
pull
Entries 50
Mean 34.82
Std Dev 15.01


pull1D
Entries 50
Mean 3.962
Std Dev 4.014


yield_cav4bY_rms vs run
χ² / ndf 2.187e+05 / 49
p0 1.235 ± 0.001404
2.5
2
1.5
1
0.5
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
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4680. 2
4680. 3
4681. 0
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4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
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4687. 2
4688. 0
4688. 1
4688. 2
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4694. 0
4694. 1
4694. 2
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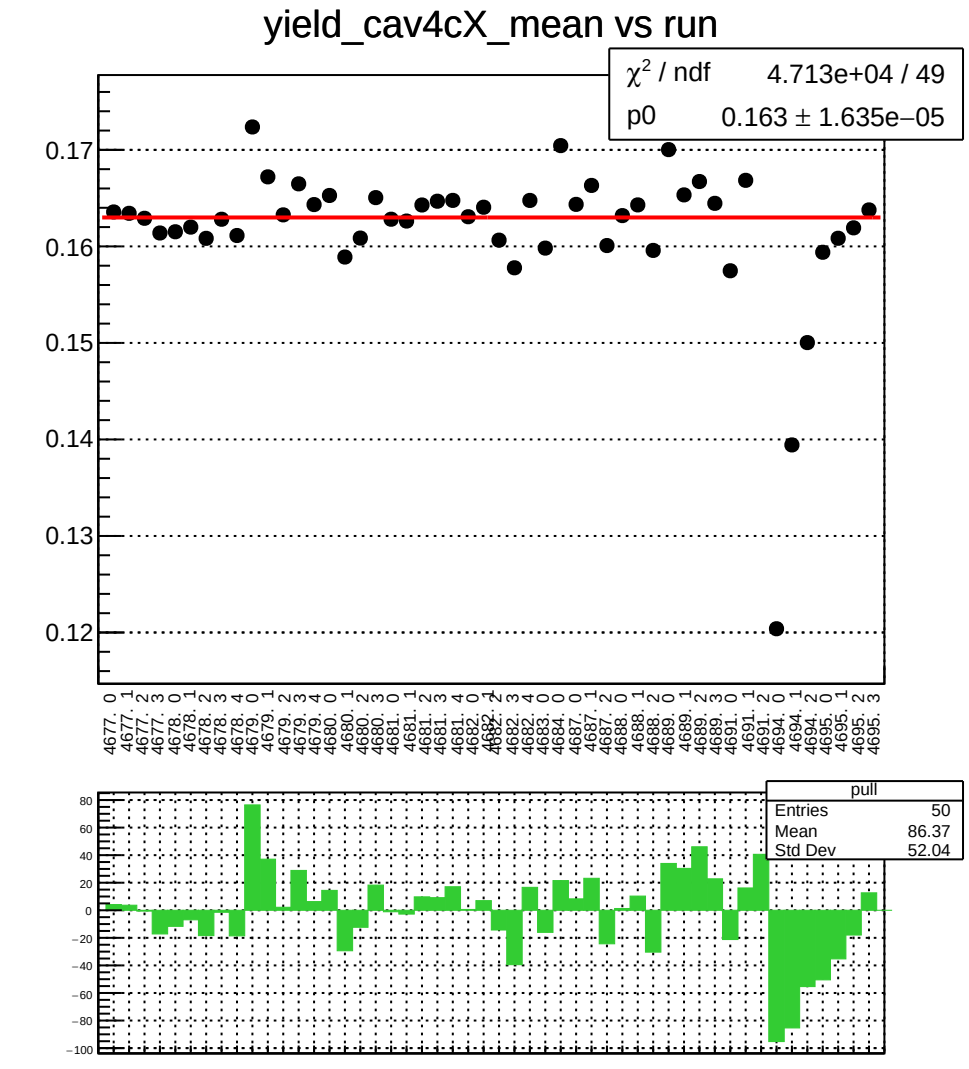
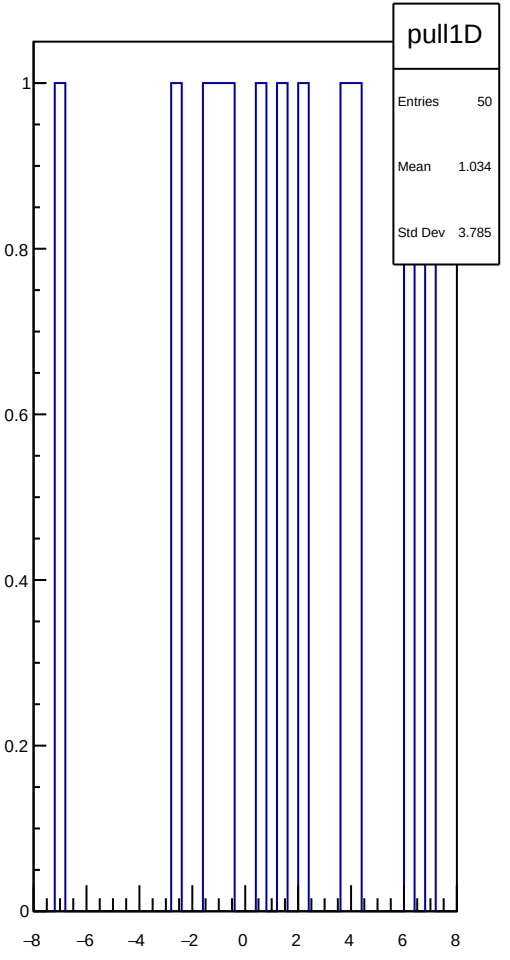
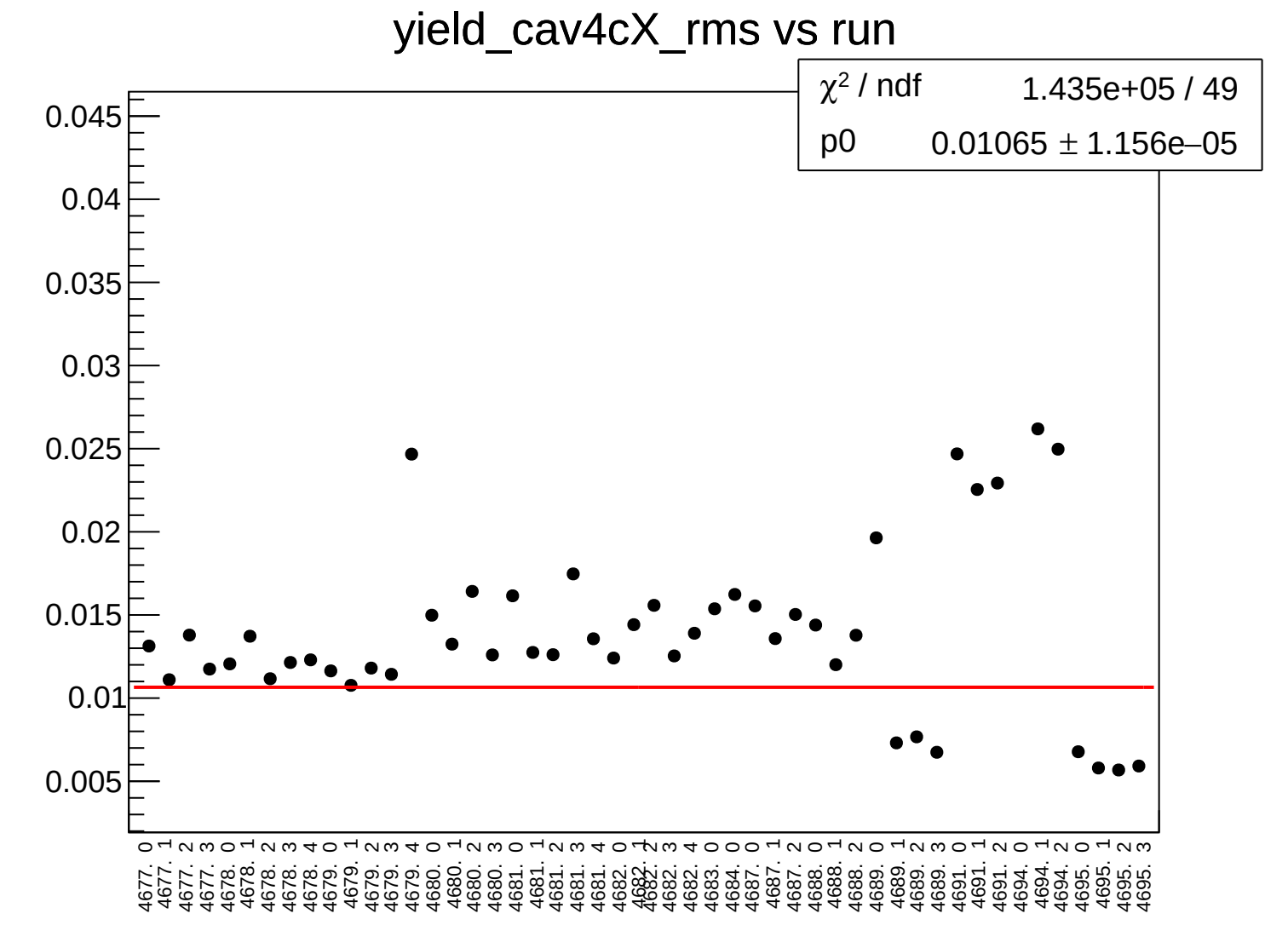
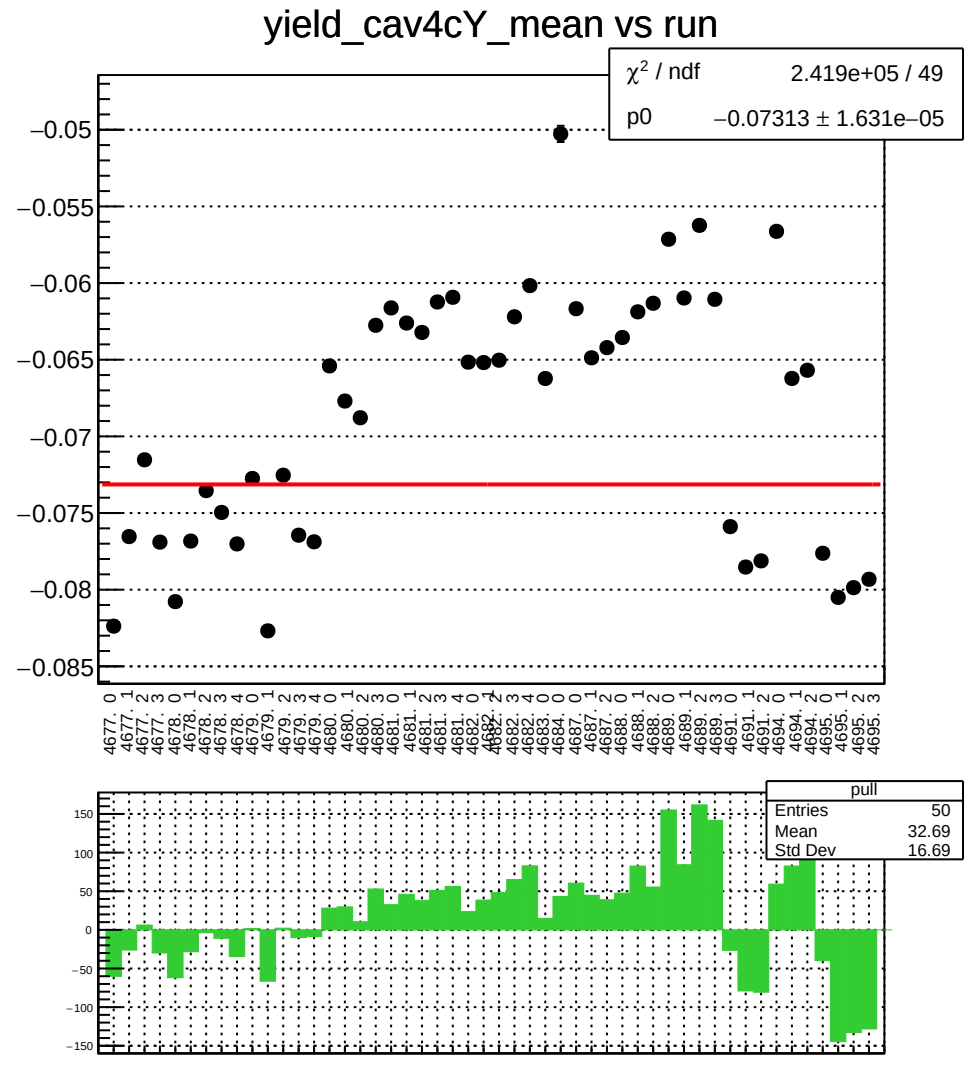
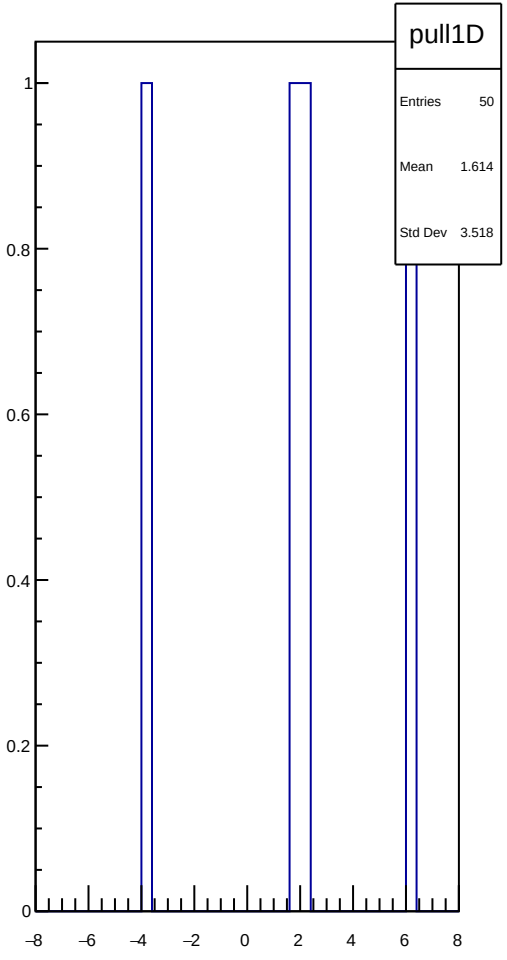
4695. 1
4695. 2
4695. 3

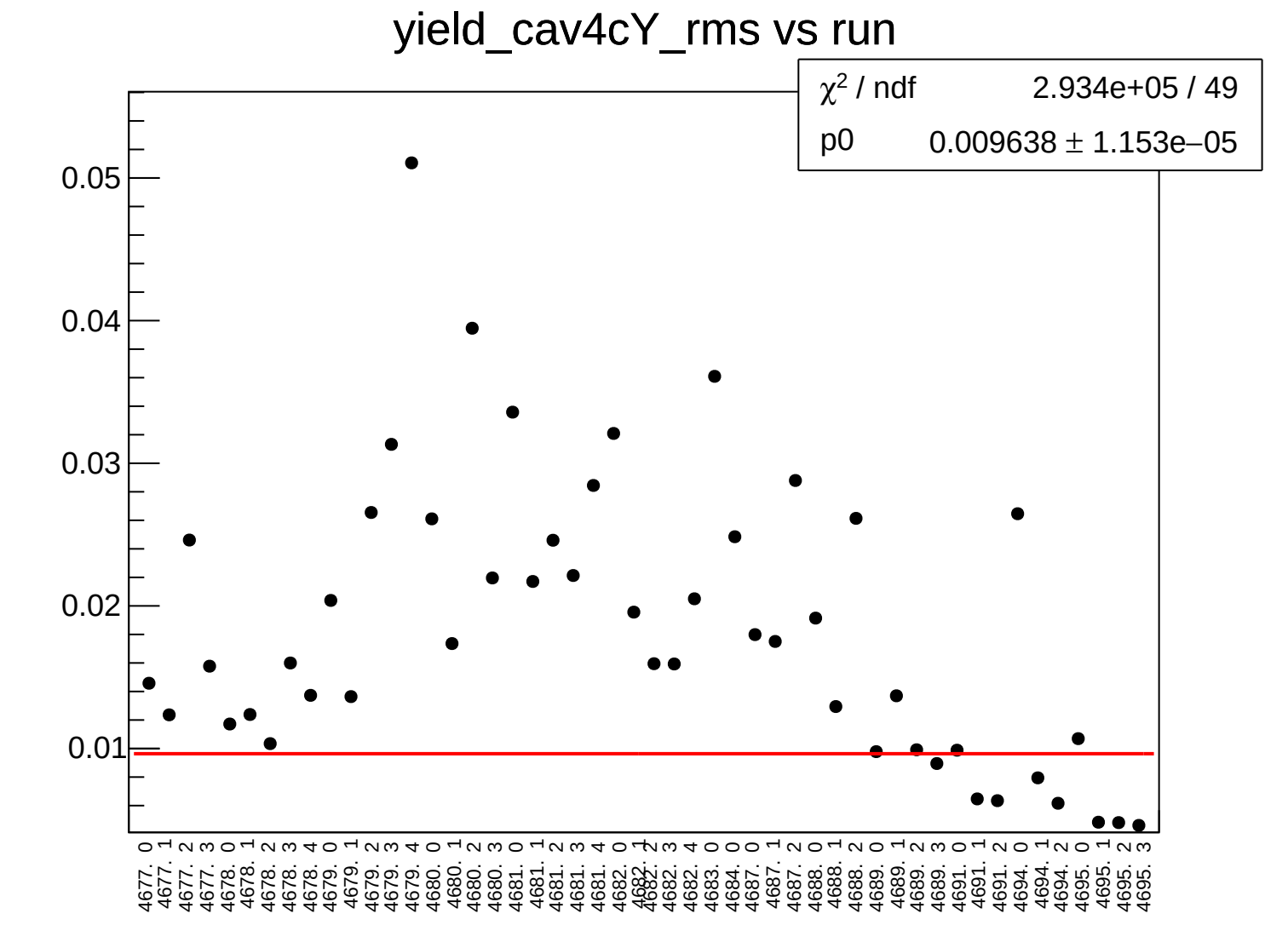

yield_cav4cX_mean vs run
χ² / ndf 4.713e+04 / 49
p0 0.163 ± 1.635e−05
0.17
0.16
0.15
0.14
0.13
0.12
pull
Entries 50
Mean 86.37
Std Dev 52.04
80
60
40
20
0
−20
−40
−60
−80
−100


pull1D
Entries 50
Mean 1.034
Std Dev 3.785
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_cav4cX_rms vs run
χ² / ndf 1.435e+05 / 49
p0 0.01065 ± 1.156e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


yield_cav4cY_mean vs run
χ² / ndf 2.419e+05 / 49
p0 −0.07313 ± 1.631e−05
pull
Entries 50
Mean 32.69
Std Dev 16.69


pull1D
Entries 50
Mean 1.614
Std Dev 3.518


yield_cav4cY_rms vs run
χ² / ndf 2.934e+05 / 49
p0 0.009638 ± 1.153e−05
0.05
0.04
0.03
0.02
0.01
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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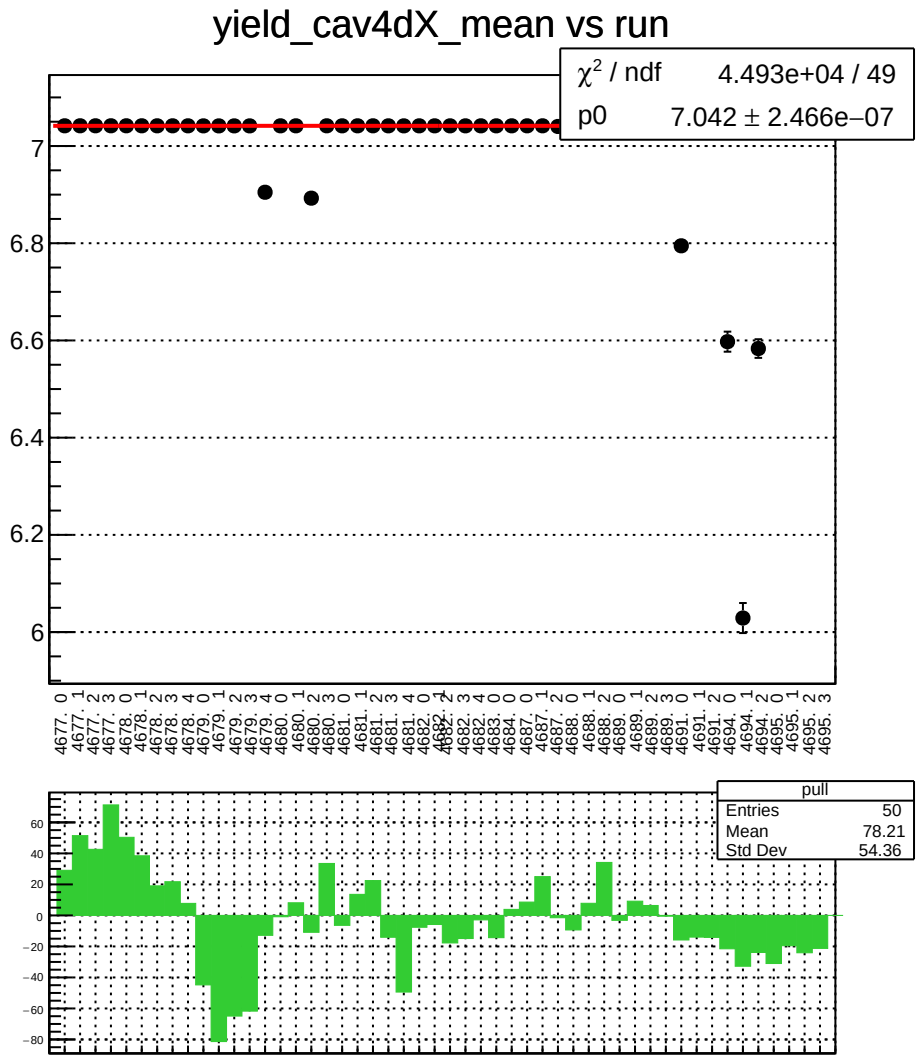
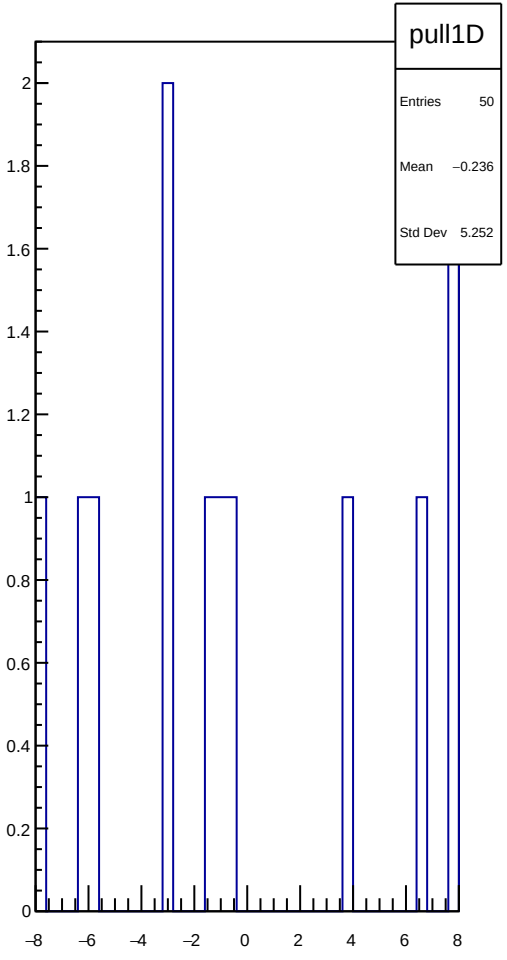
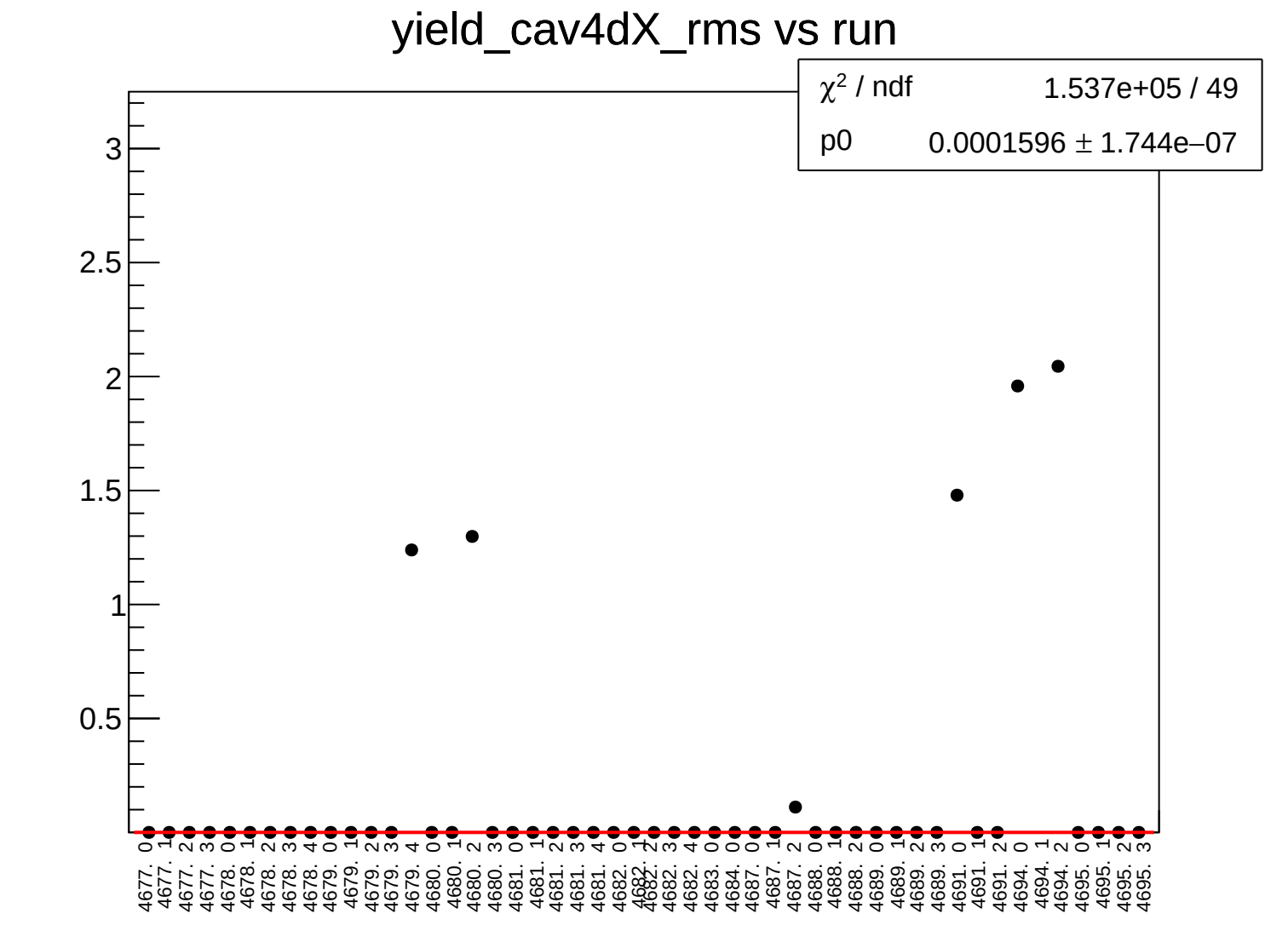
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


yield_cav4dX_mean vs run
χ² / ndf 4.493e+04 / 49
p0 7.042 ± 2.466e−07
pull
Entries 50
Mean 78.21
Std Dev 54.36


pull1D
Entries 50
Mean −0.236
Std Dev 5.252


yield_cav4dX_rms vs run
χ² / ndf 1.537e+05 / 49
p0 0.0001596 ± 1.744e−07
3
2.5
2
1.5
1
0.5
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
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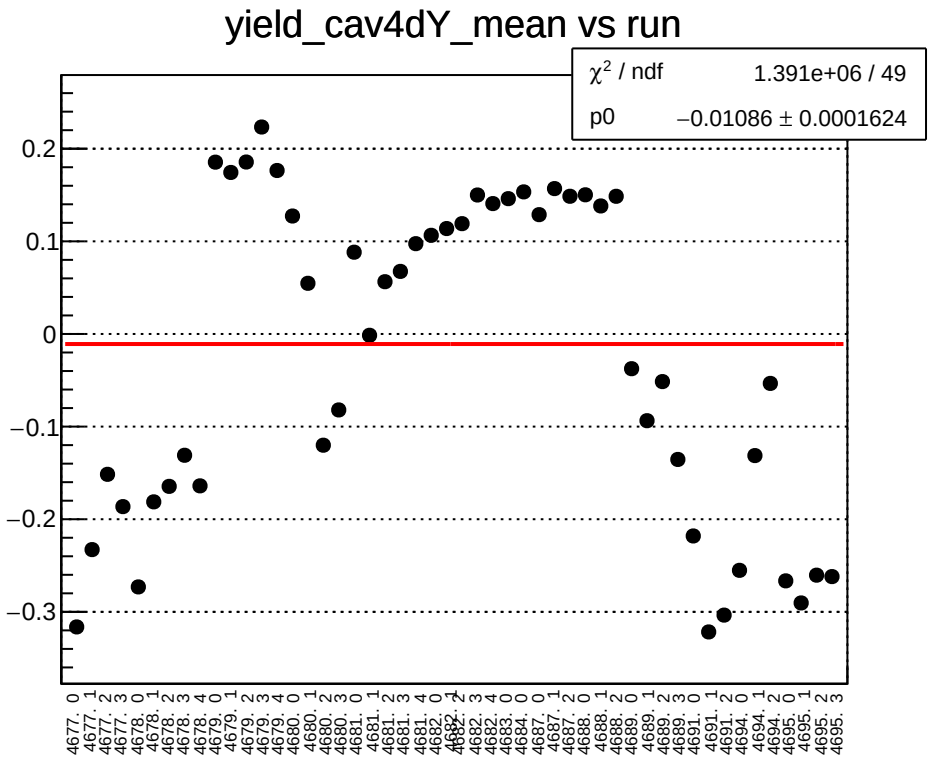
4695. 0
4695. 1
4695. 2
4695. 3


yield_cav4dY_mean vs run
χ² / ndf 1.391e+06 / 49
p0 −0.01086 ± 0.0001624
0.2
0.1
0
−0.1
−0.2
−0.3
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4688. 3
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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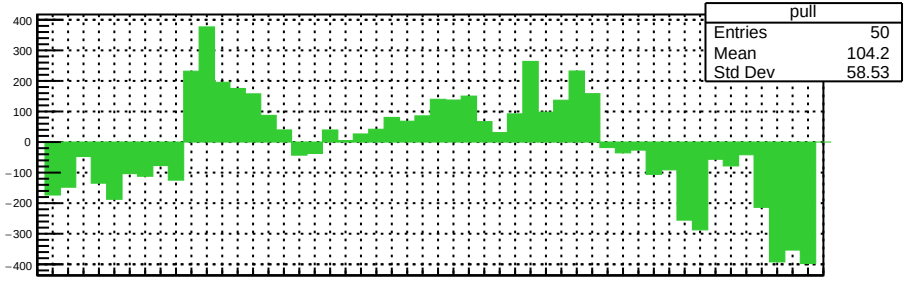
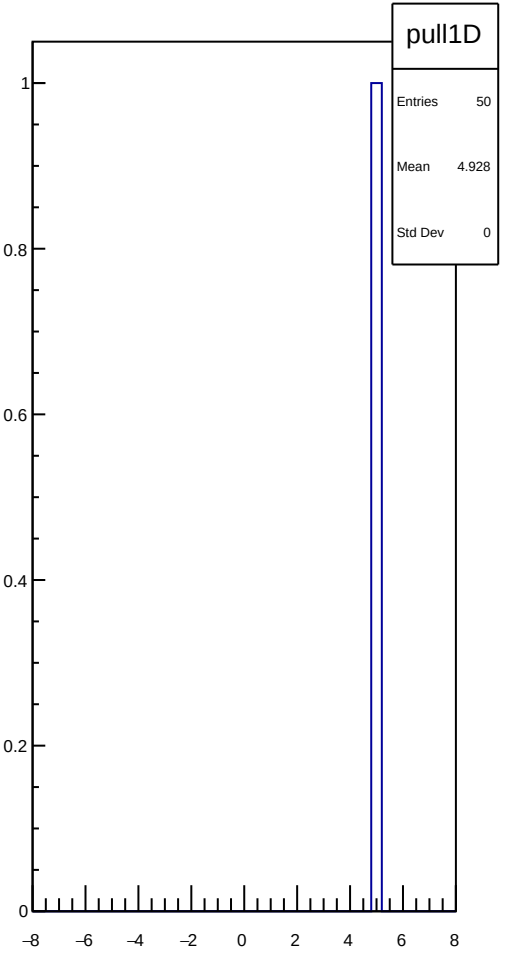
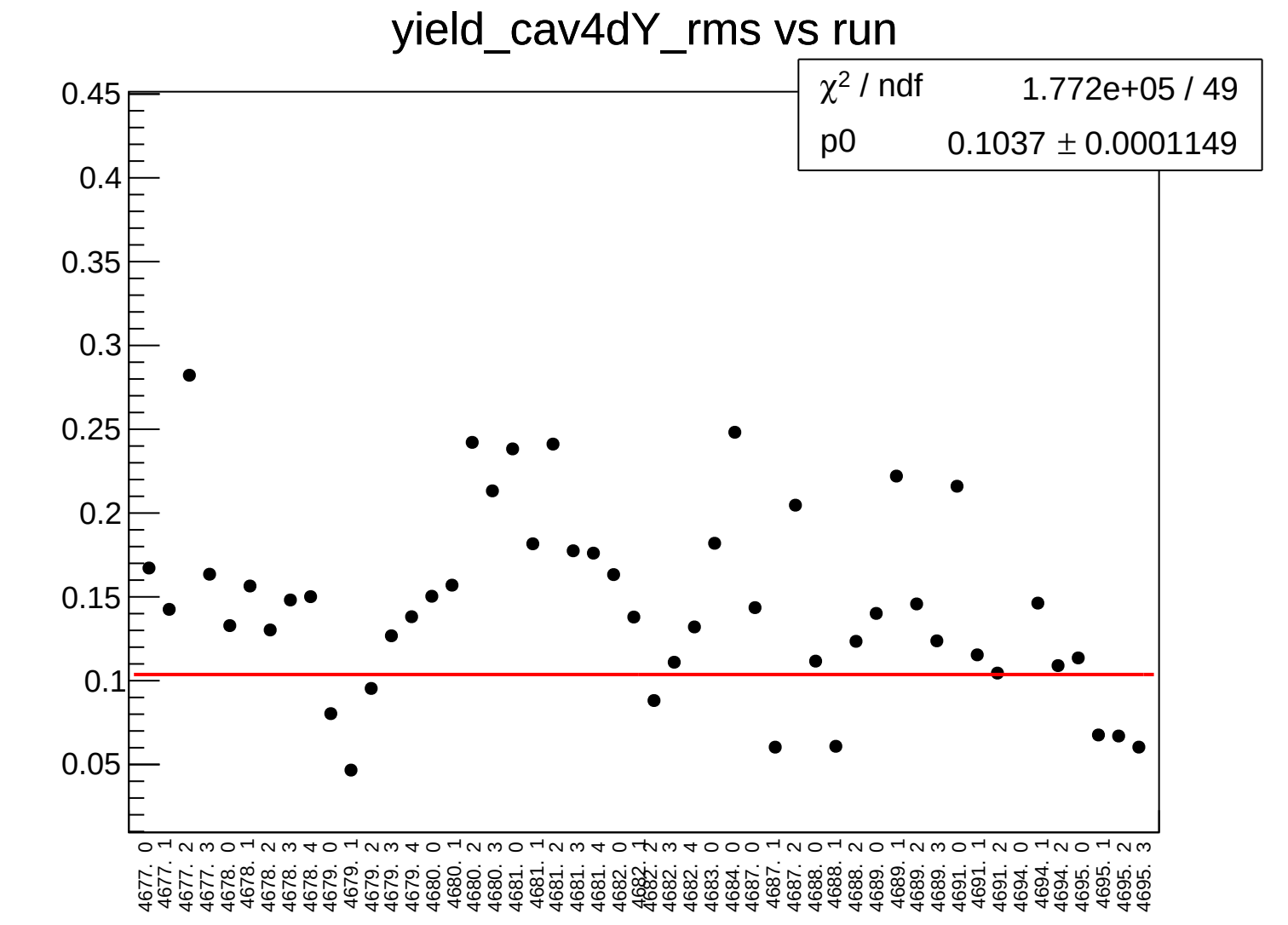
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


pull
Entries 50
Mean 104.2
Std Dev 58.53
400
300
200
100
0
−100
−200
−300
−400


pull1D
Entries 50
Mean 4.928
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_cav4dY_rms vs run
χ² / ndf 1.772e+05 / 49
p0 0.1037 ± 0.0001149
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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4691. 2
4694. 0
4694. 1
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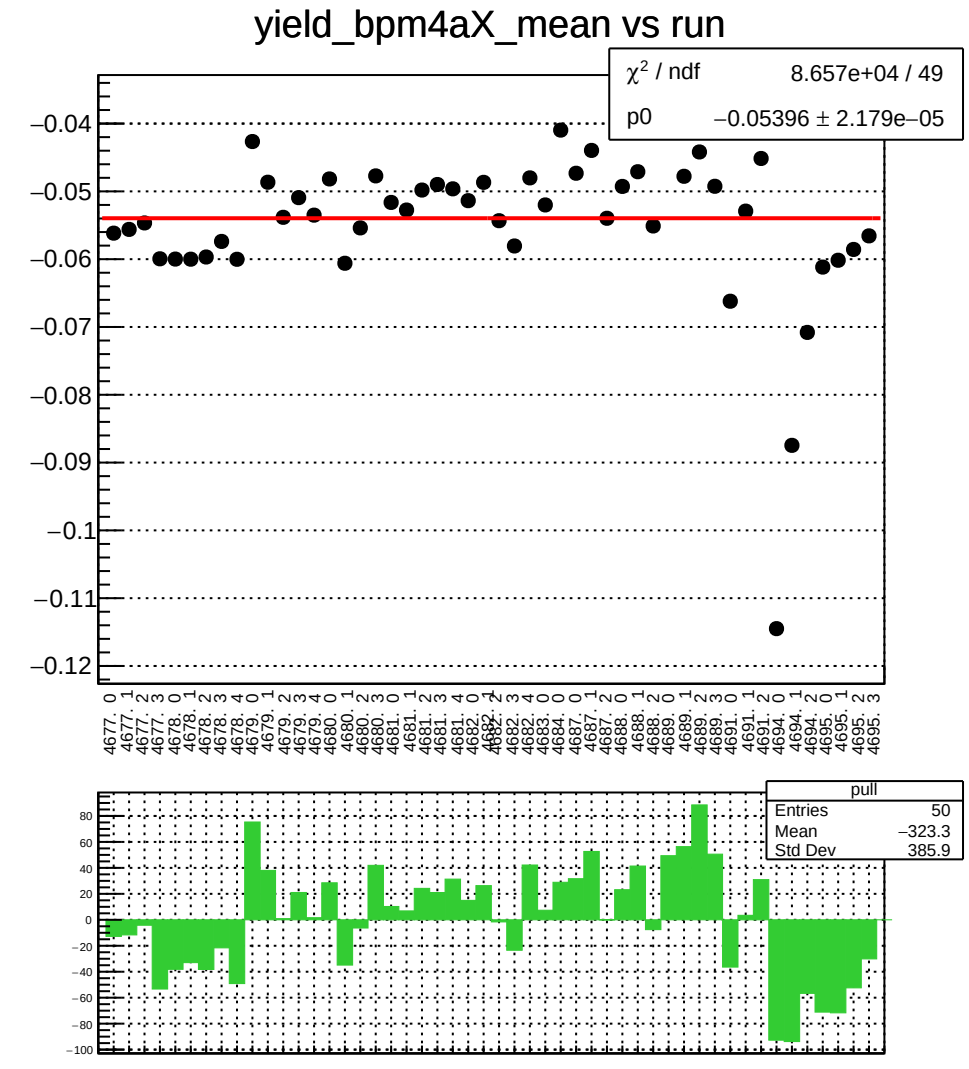
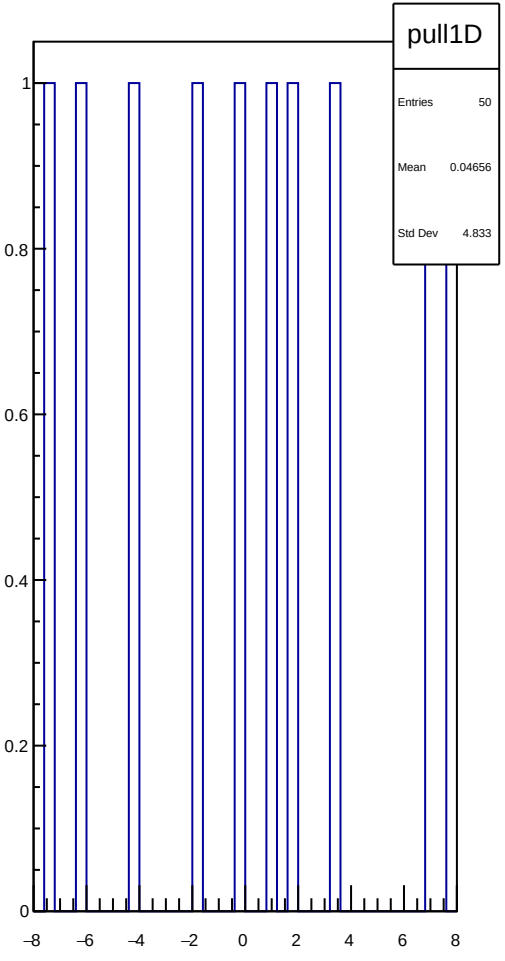
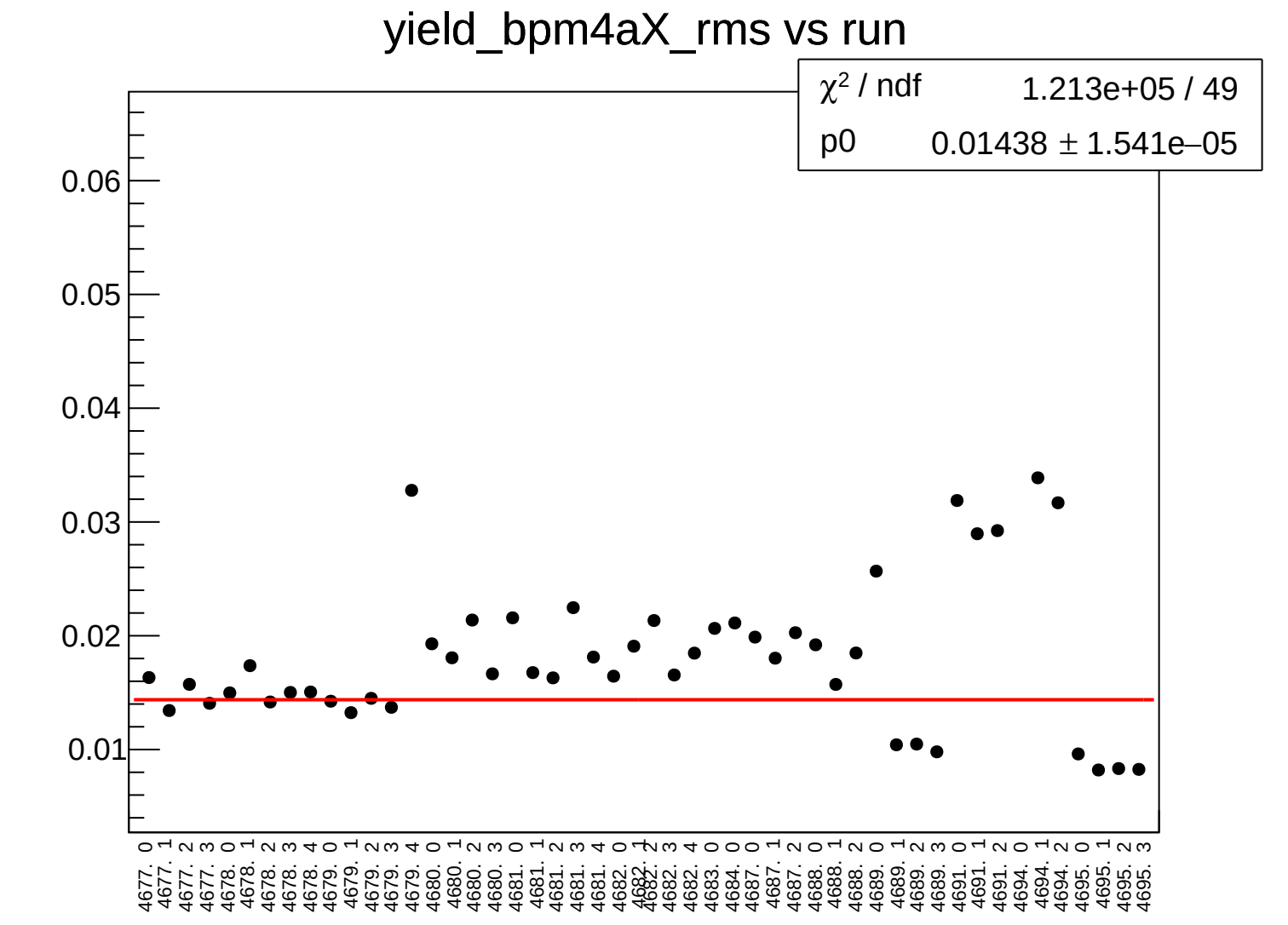
4695. 0
4695. 1
4695. 2
4695. 3


yield_bpm4aX_mean vs run
χ² / ndf 8.657e+04 / 49
p0 −0.05396 ± 2.179e−05
pull
Entries 50
Mean −323.3
Std Dev 385.9


pull1D
Entries 50
Mean 0.04656
Std Dev 4.833


yield_bpm4aX_rms vs run
χ² / ndf 1.213e+05 / 49
p0 0.01438 ± 1.541e−05
0.06
0.05
0.04
0.03
0.02
0.01
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
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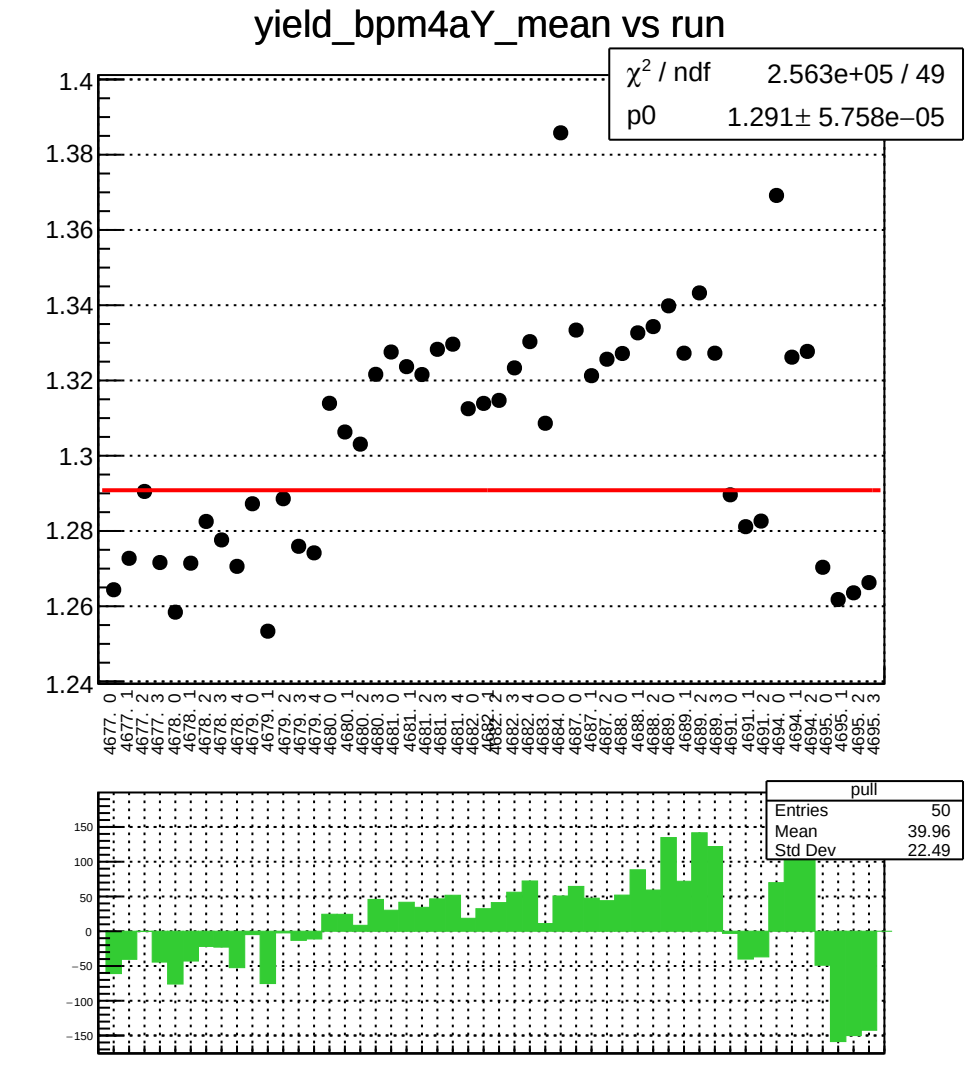
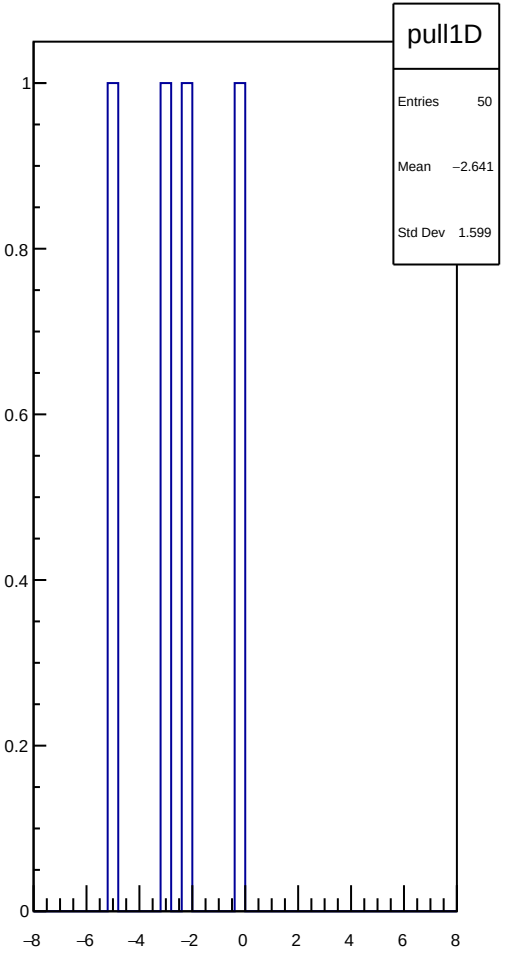
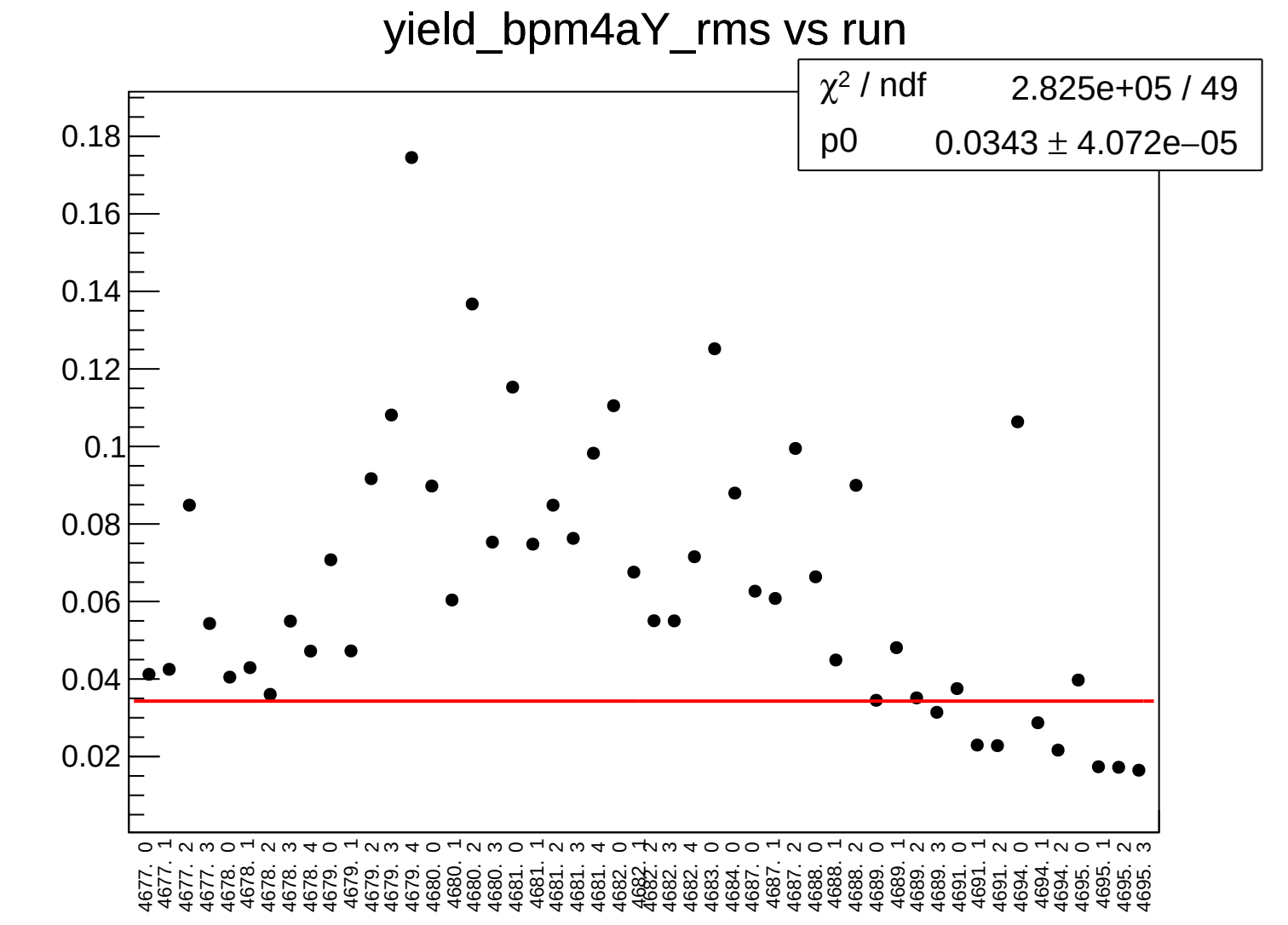
4695. 2
4695. 3


yield_bpm4aY_mean vs run
χ² / ndf 2.563e+05 / 49
p0 1.291± 5.758e−05
pull
Entries 50
Mean 39.96
Std Dev 22.49


pull1D
Entries 50
Mean −2.641
Std Dev 1.599


yield_bpm4aY_rms vs run
χ² / ndf 2.825e+05 / 49
p0 0.0343 ± 4.072e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
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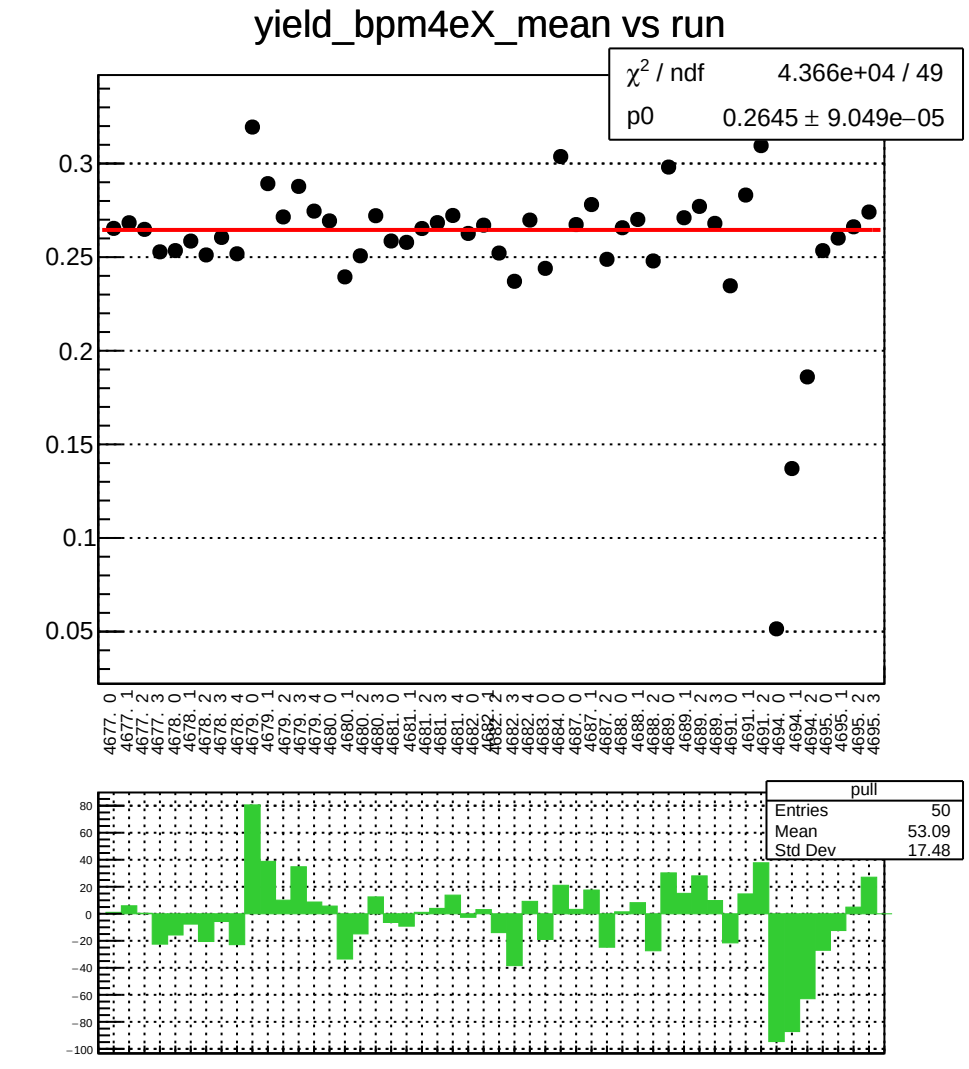
4695. 2
4695. 3


yield_bpm4eX_mean vs run
χ² / ndf 4.366e+04 / 49
p0 0.2645 ± 9.049e−05
0.3
0.25
0.2
0.15
0.1
0.05
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
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4679. 2
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4679. 4
4680. 0
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4680. 2
4680. 3
4681. 0
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4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
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4687. 0
4687. 1
4687. 2
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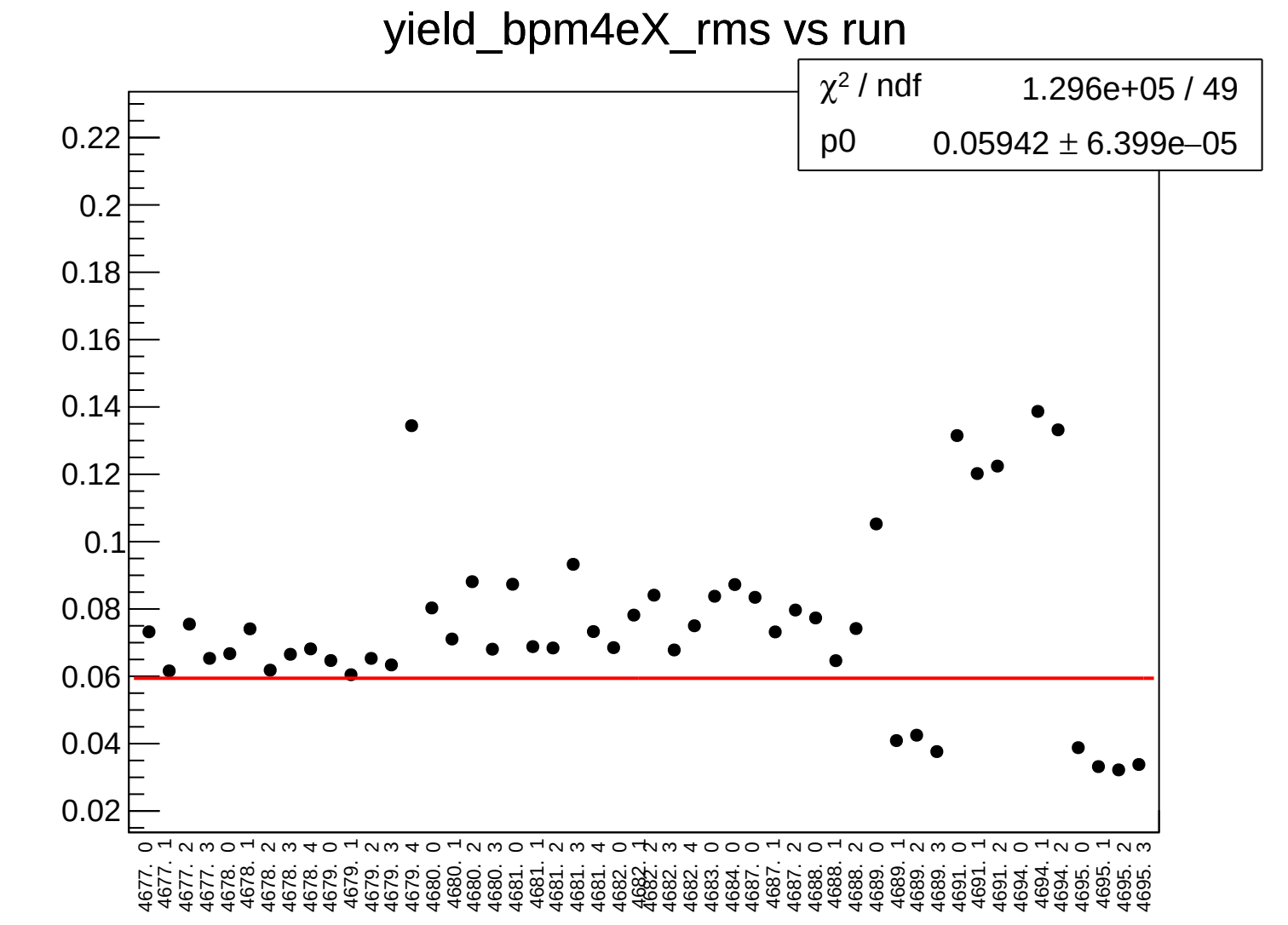
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 53.09
Std Dev 17.48
80
60
40
20
0
−20
−40
−60
−80
−100
pull1D
Entries 50
Mean 0.6046
Std Dev 4.354
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4eX_rms vs run
χ² / ndf 1.296e+05 / 49
p0 0.05942 ± 6.399e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
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4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
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4689. 1
4689. 2
4689. 3
4691. 0
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4691. 2
4694. 0
4694. 1
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4695. 0
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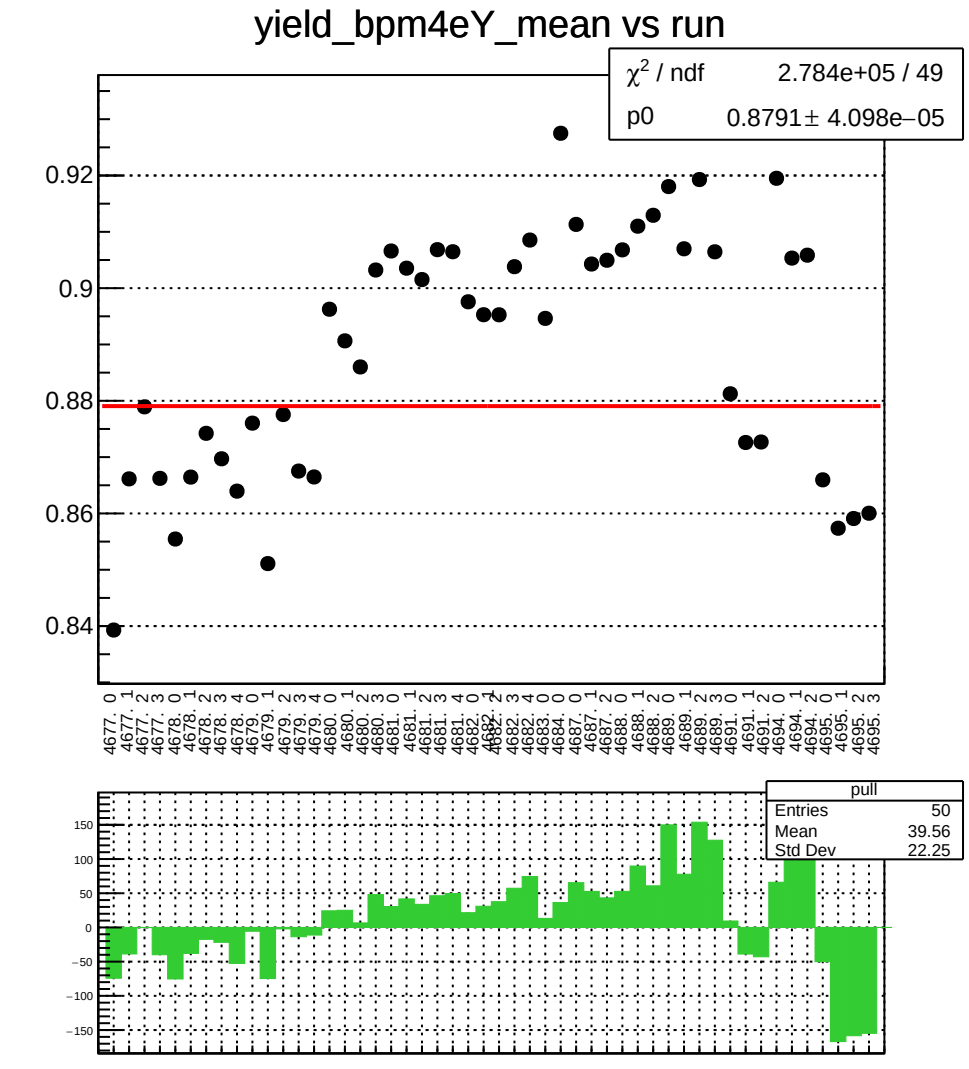
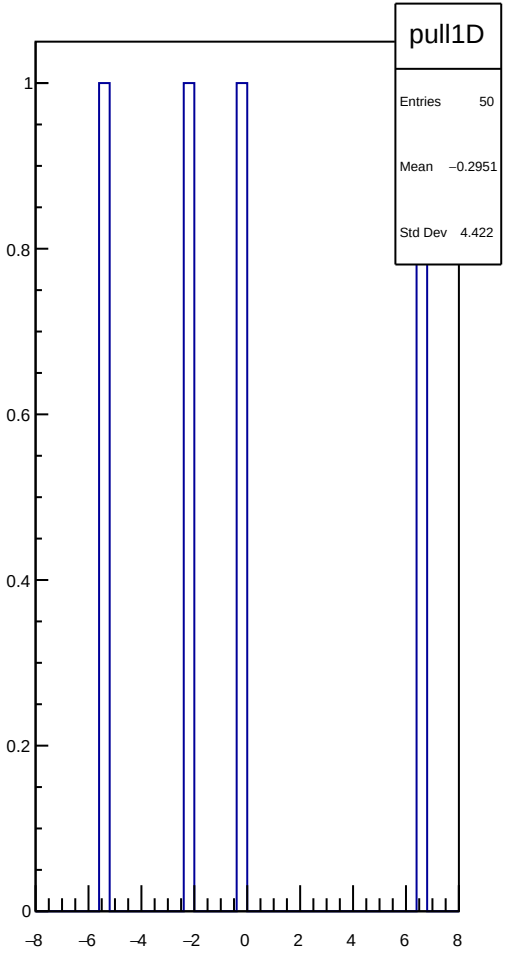
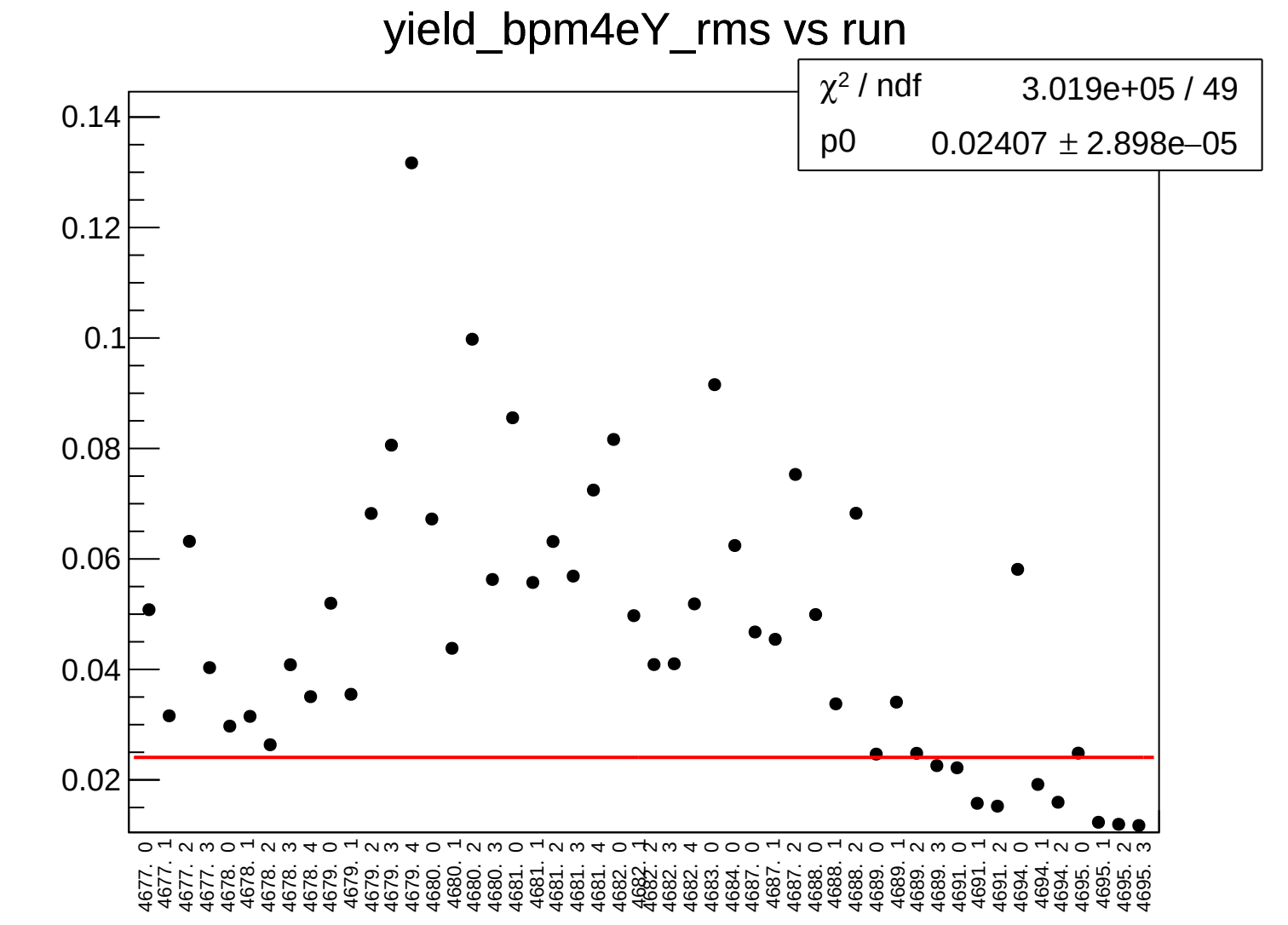
4695. 2
4695. 3


yield_bpm4eY_mean vs run
χ² / ndf 2.784e+05 / 49
p0 0.8791 ± 4.098e−05
0.92
0.9
0.88
0.86
0.84
pull
Entries 50
Mean 39.56
Std Dev 22.25
150
100
50
0
−50
−100
−150


pull1D
Entries 50
Mean −0.2951
Std Dev 4.422
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 3.019e+05 / 49
p0 0.02407 ± 2.898e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
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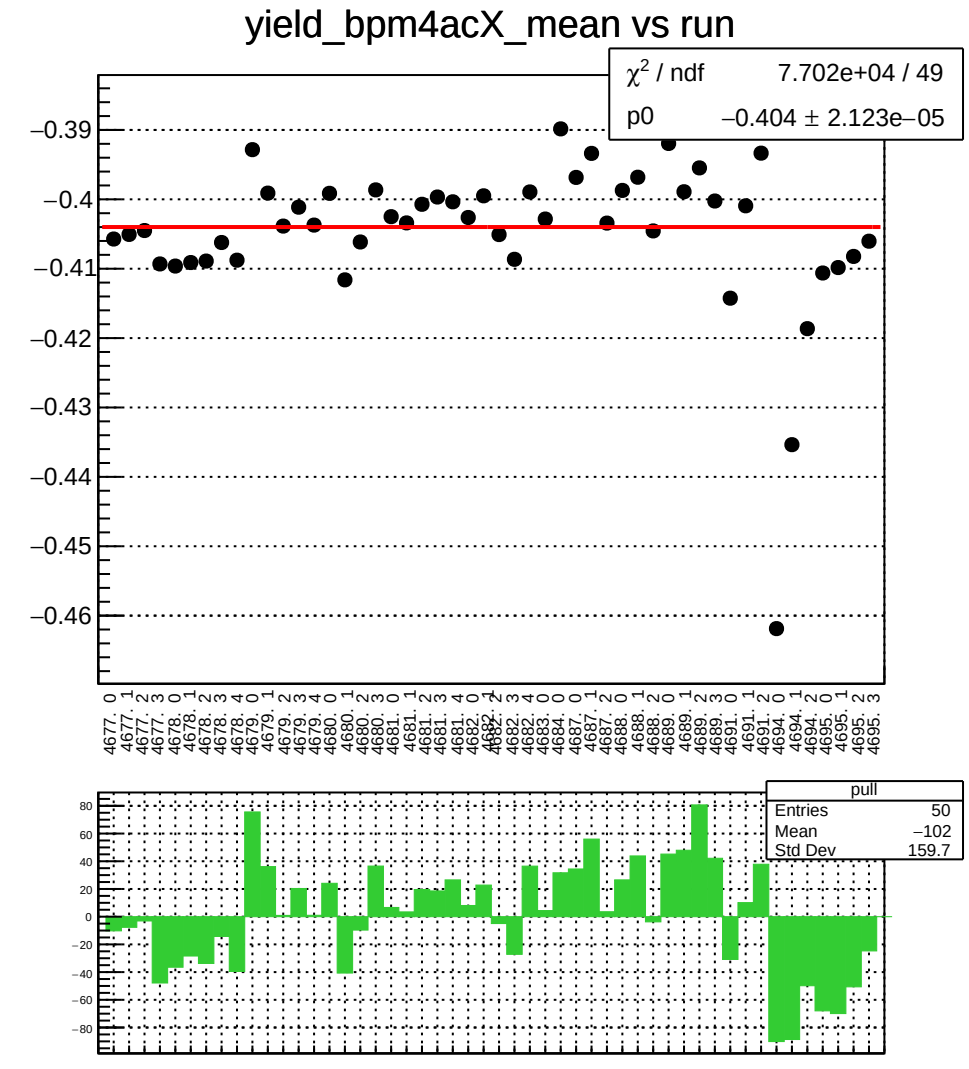
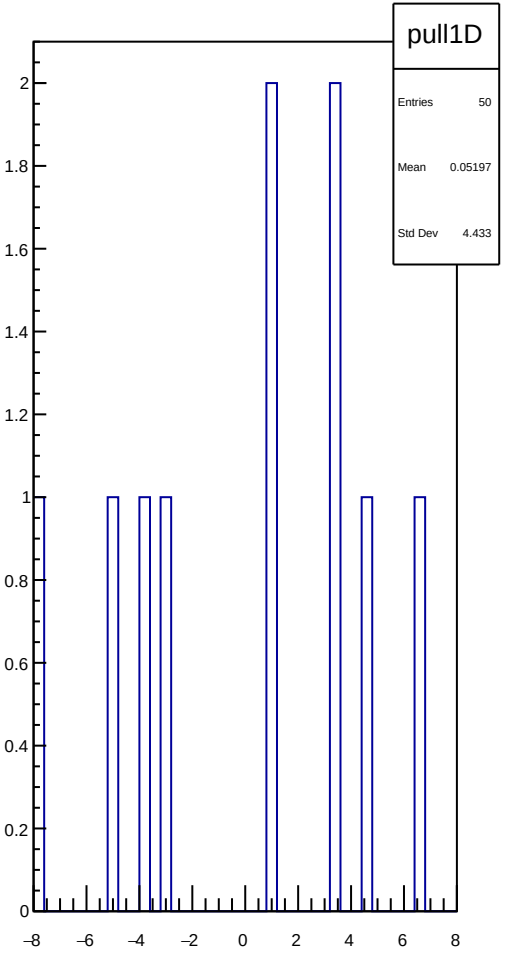
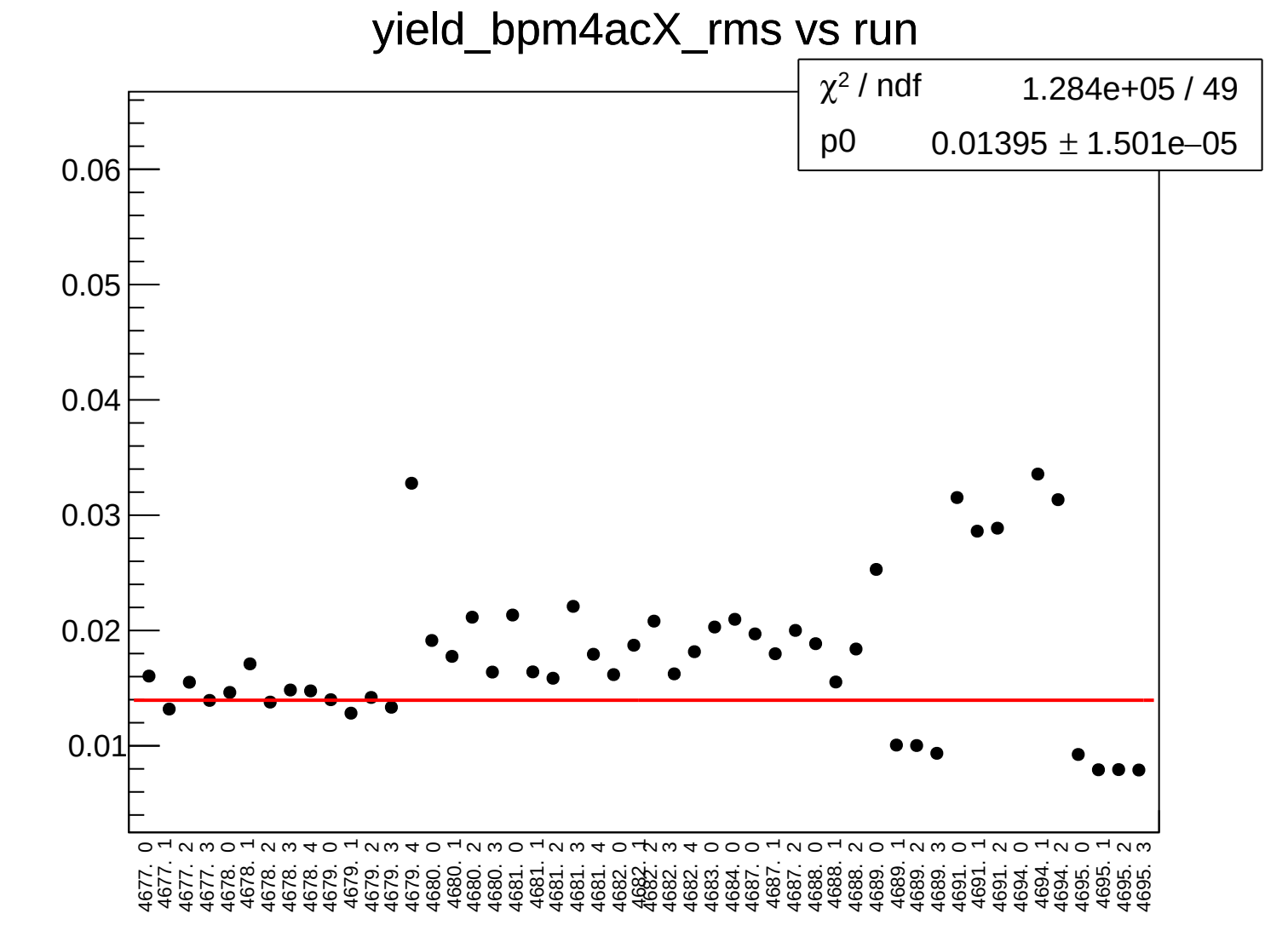
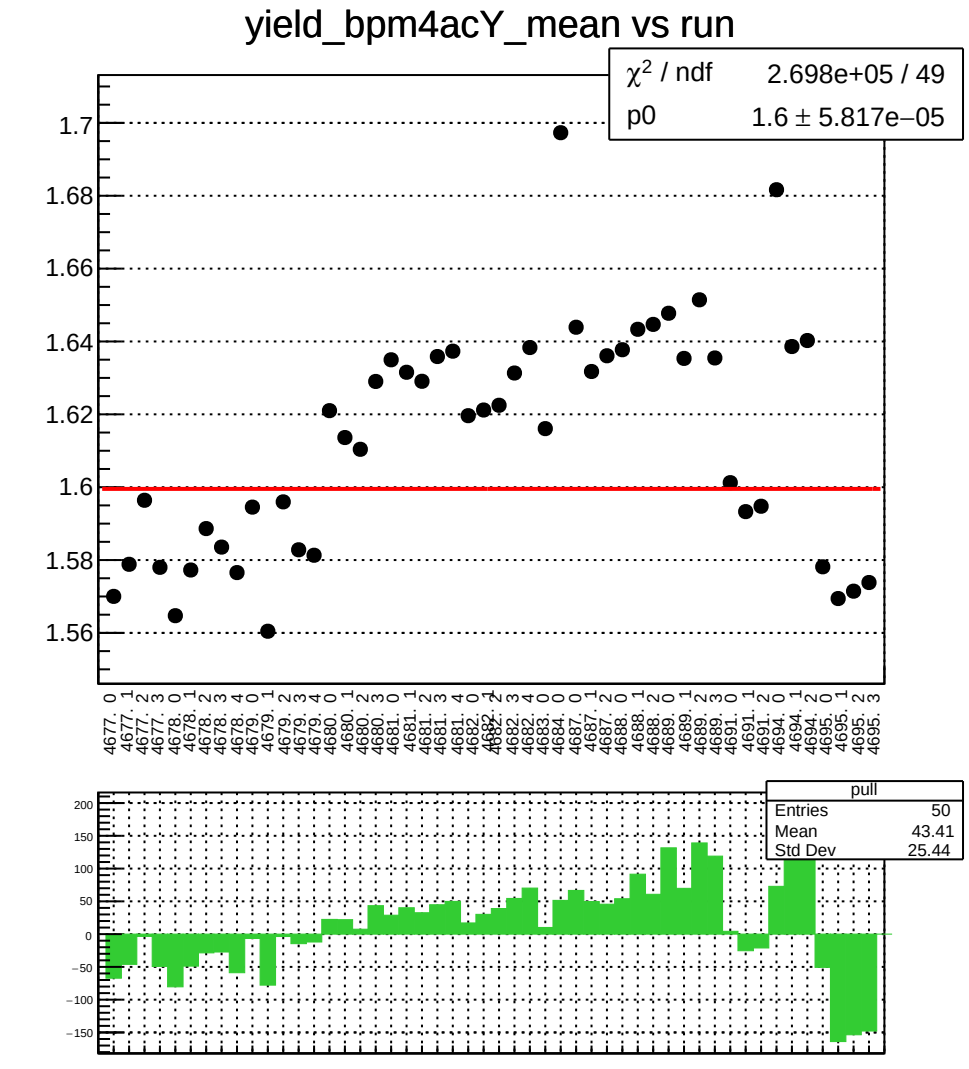
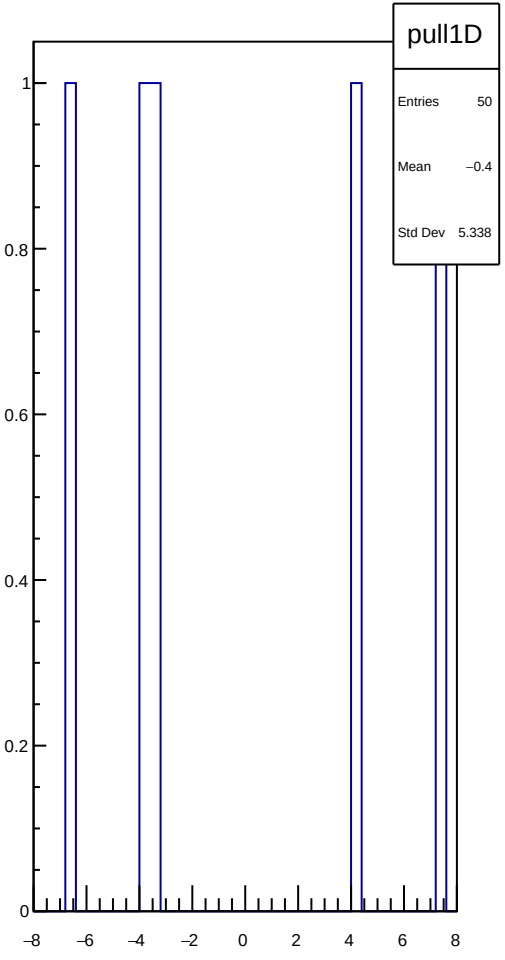
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

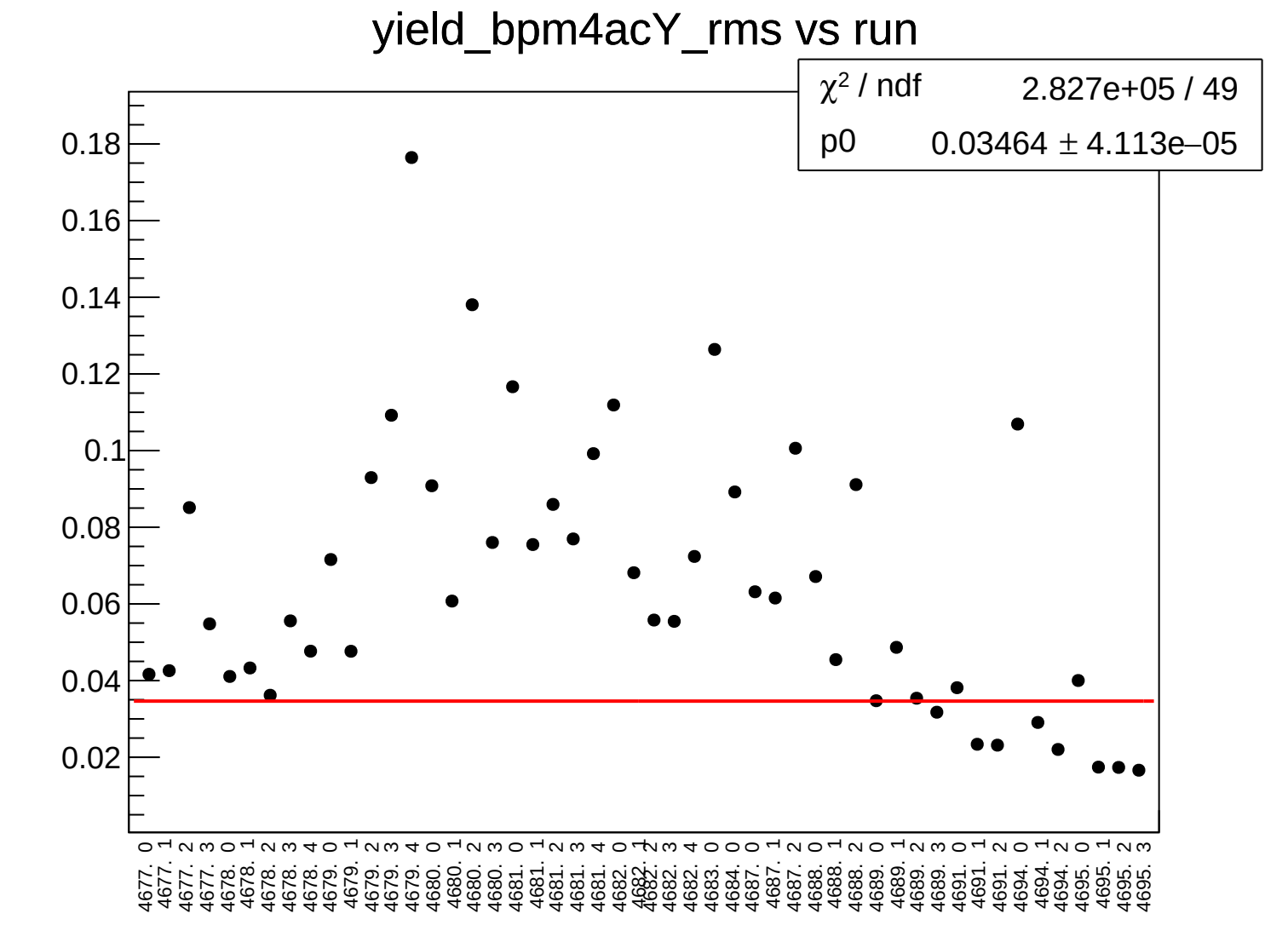

yield_bpm4acX_mean vs run
χ² / ndf 7.702e+04 / 49
p0 −0.404 ± 2.123e−05
pull
Entries 50
Mean −102
Std Dev 159.7

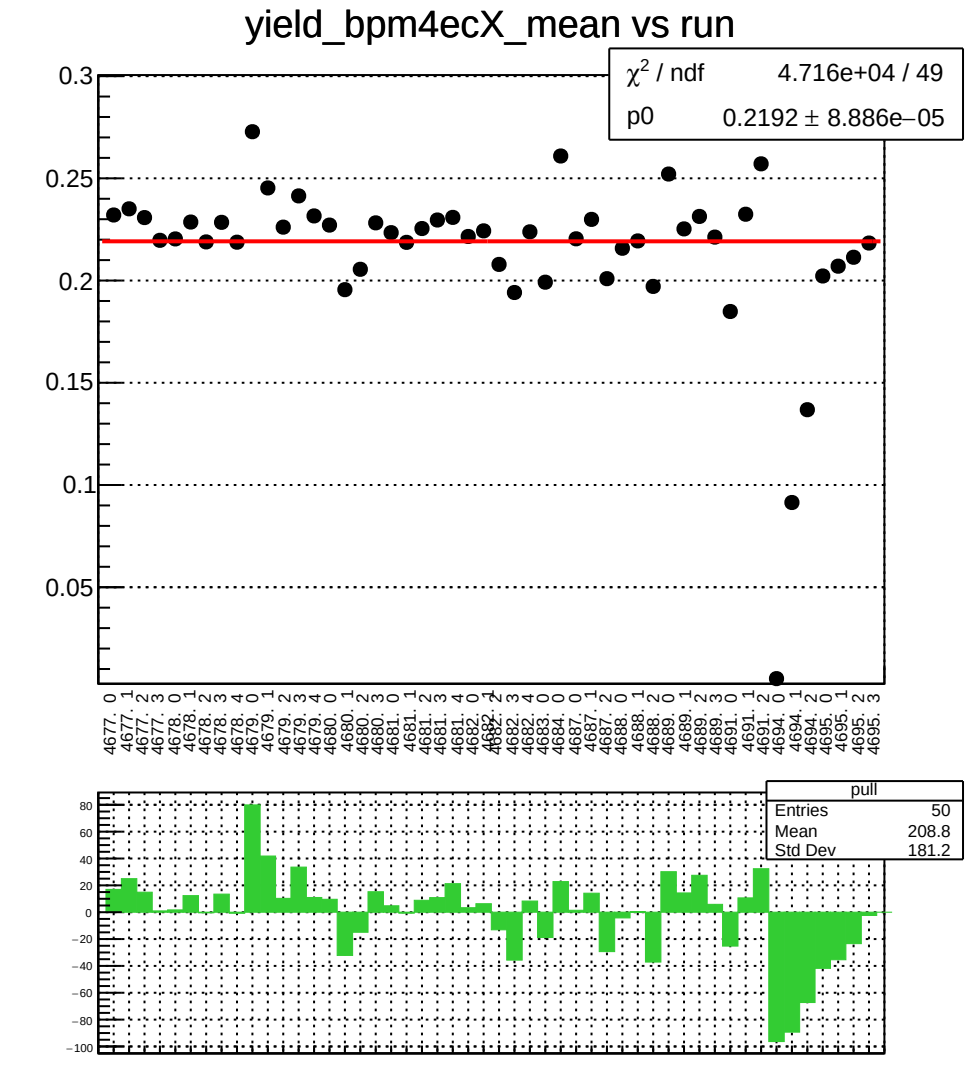

pull1D
Entries 50
Mean 0.05197
Std Dev 4.433

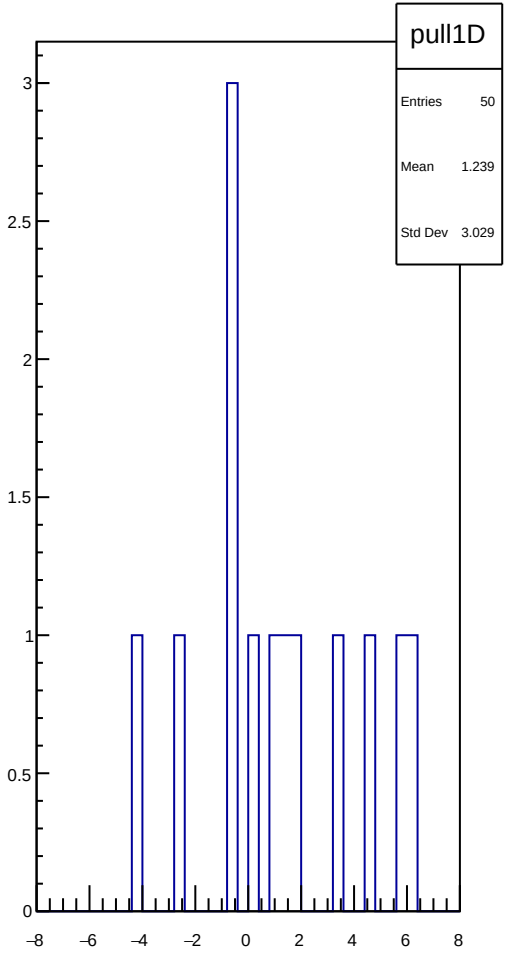

yield_bpm4acX_rms vs run
χ² / ndf 1.284e+05 / 49
p0 0.01395 ± 1.501e–05
0.06
0.05
0.04
0.03
0.02
0.01
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

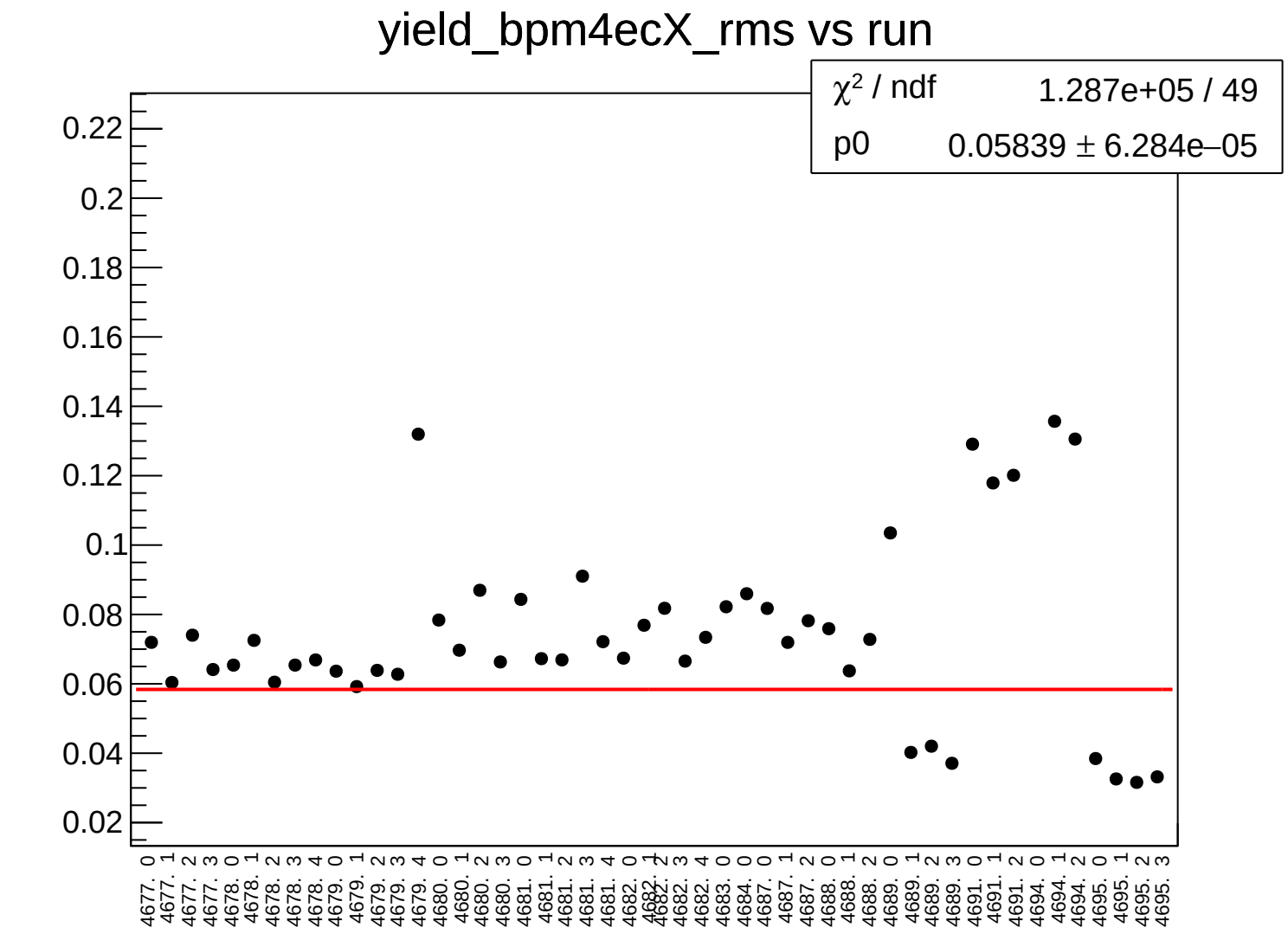

yield_bpm4acY_mean vs run
χ² / ndf 2.698e+05 / 49
p0 1.6 ± 5.817e−05
pull
Entries 50
Mean 43.41
Std Dev 25.44

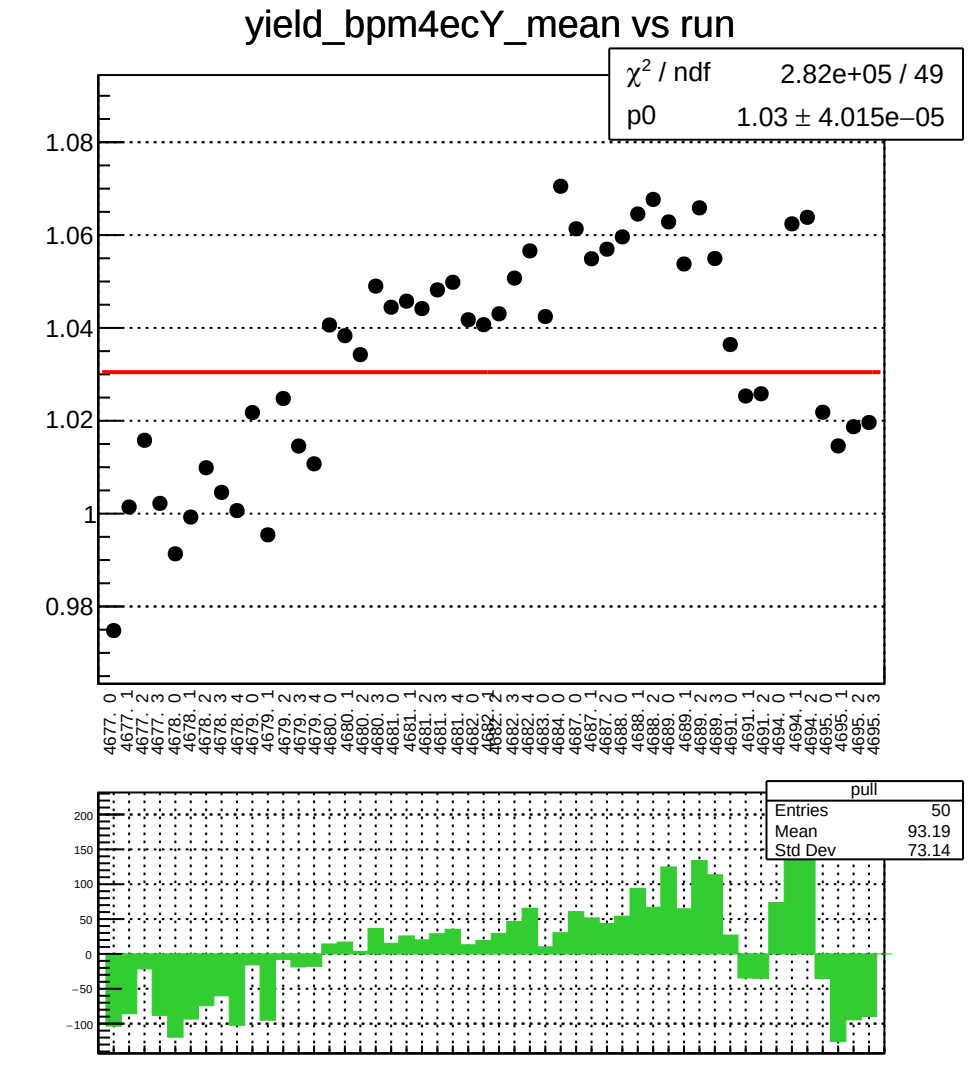

pull1D
Entries 50
Mean −0.4
Std Dev 5.338


yield_bpm4acY_rms vs run
χ² / ndf 2.827e+05 / 49
p0 0.03464 ± 4.113e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


yield_bpm4ecX_mean vs run
χ² / ndf 4.716e+04 / 49
p0 0.2192 ± 8.886e−05
pull
Entries 50
Mean 208.8
Std Dev 181.2


pull1D
Entries 50
Mean 1.239
Std Dev 3.029


yield_bpm4ecX_rms vs run
χ² / ndf 1.287e+05 / 49
p0 0.05839 ± 6.284e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


yield_bpm4ecY_mean vs run
χ² / ndf 2.82e+05 / 49
p0 1.03 ± 4.015e−05
1.08
1.06
1.04
1.02
1
0.98
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
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4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
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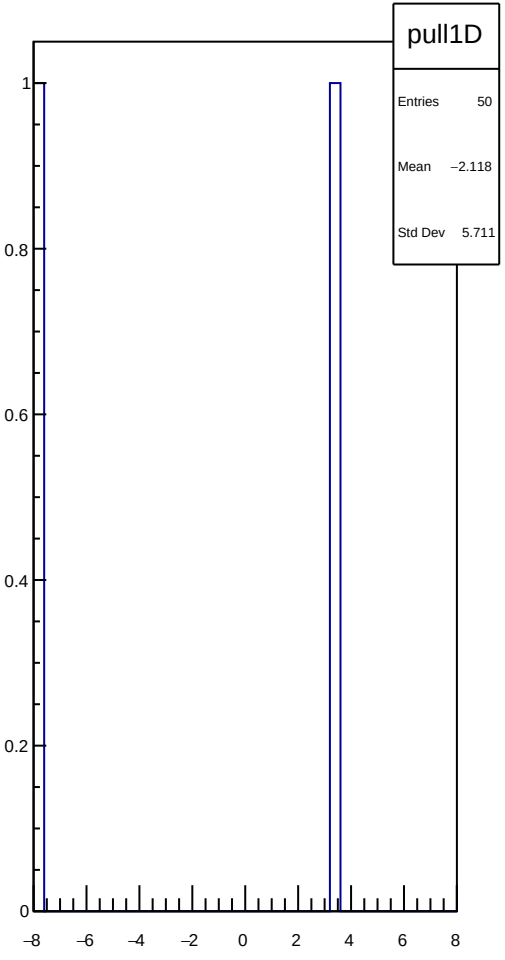
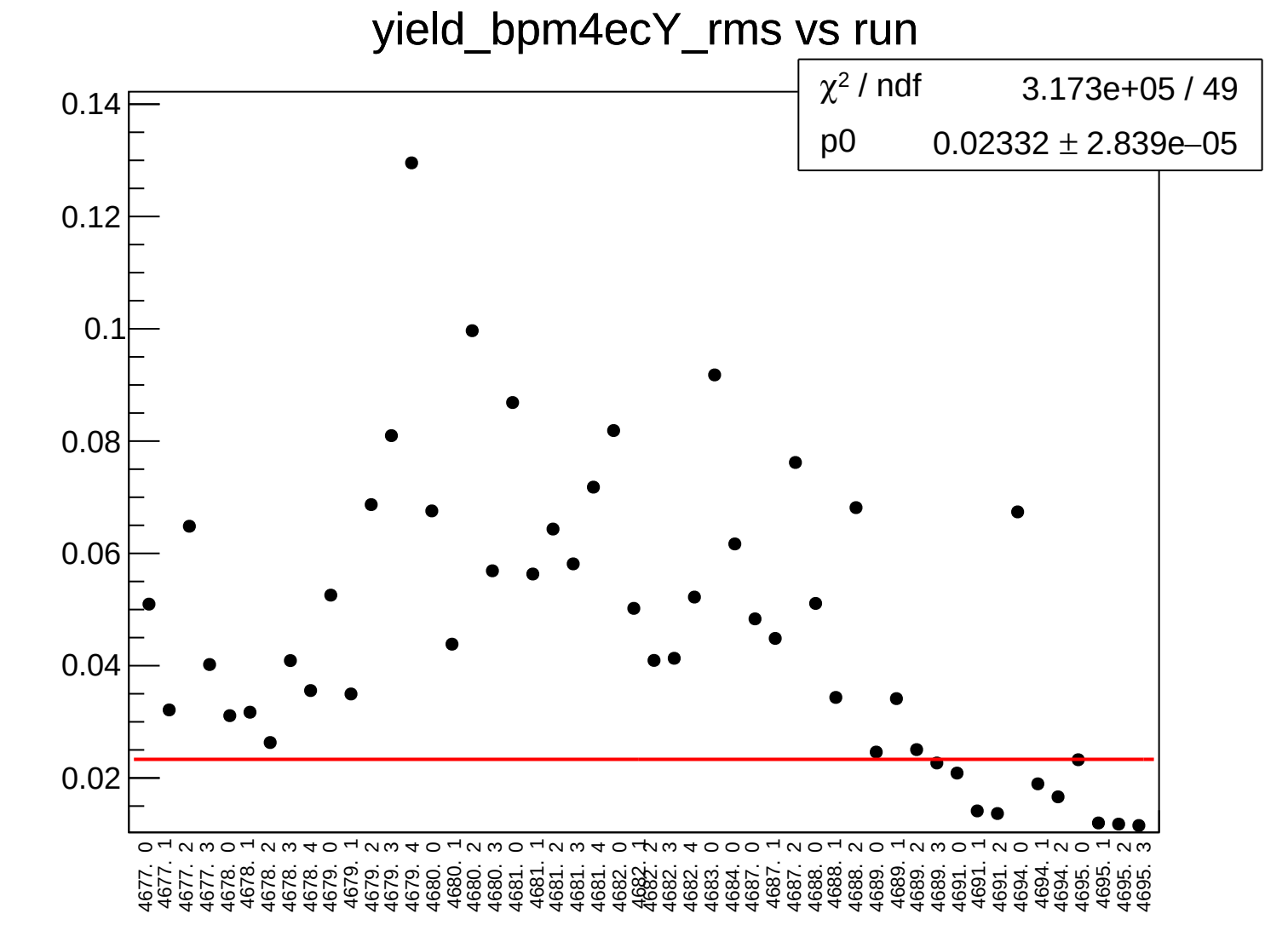
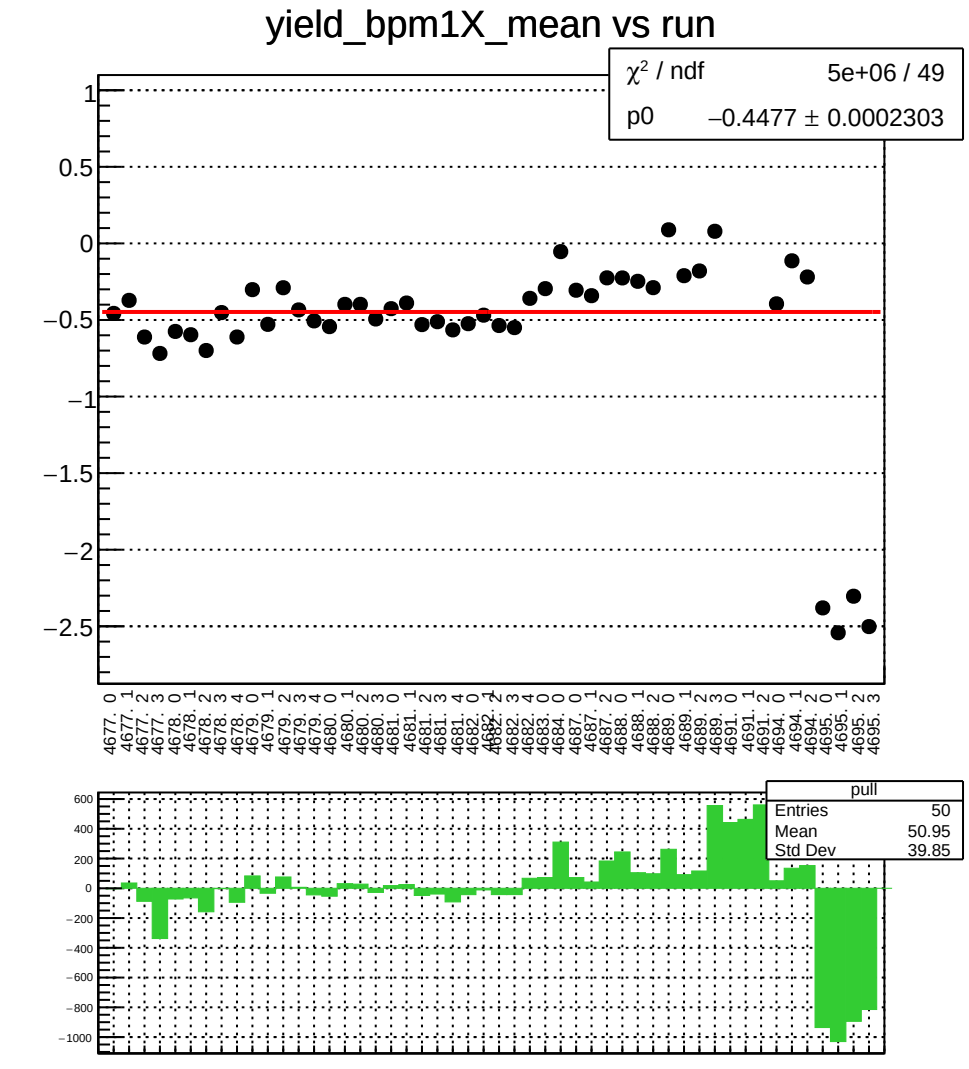
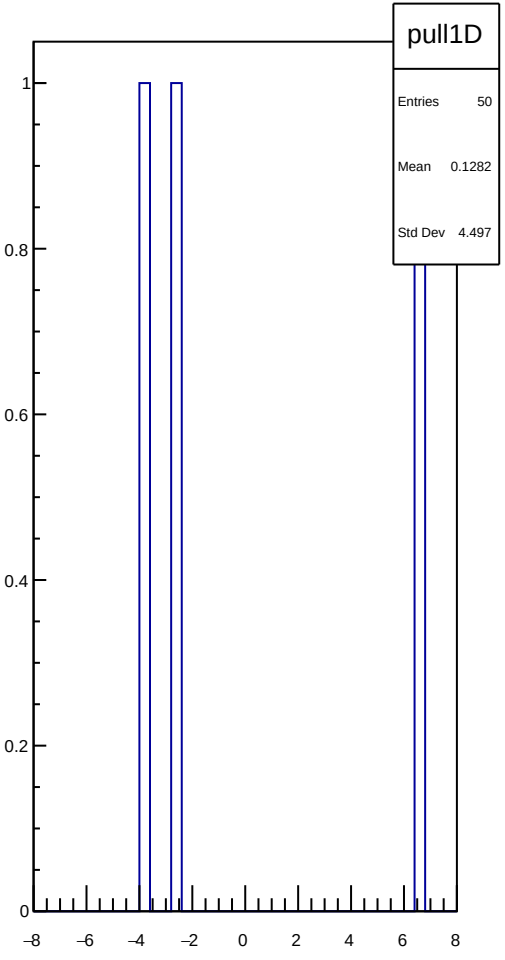
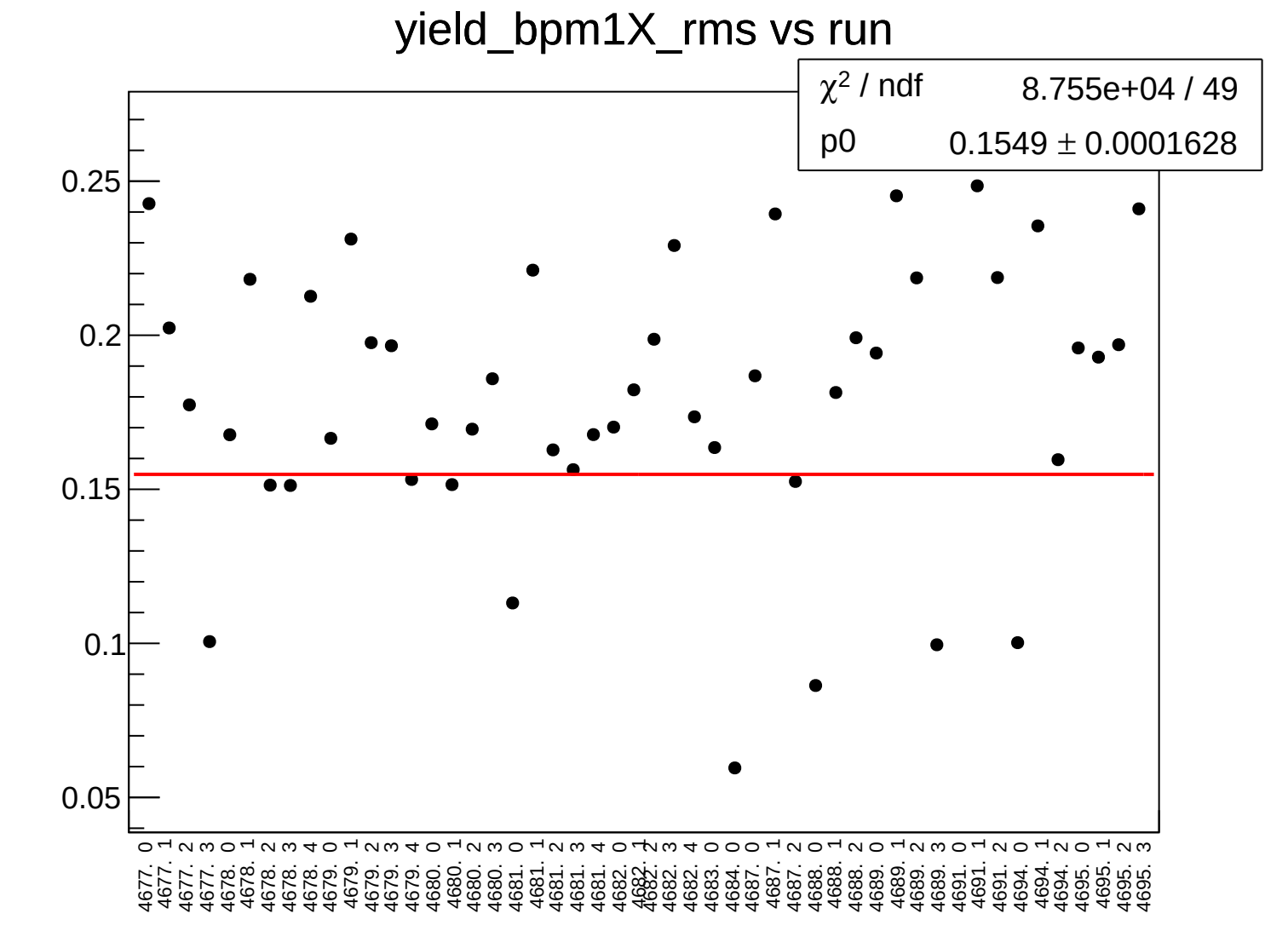
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 93.19
Std Dev 73.14
200
150
100
50
0
−50
−100


pull1D
Entries 50
Mean −2.118
Std Dev 5.711
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 3.173e+05 / 49
p0 0.02332 ± 2.839e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


yield_bpm1X_mean vs run
χ² / ndf 5e+06 / 49
p0 −0.4477 ± 0.0002303
pull
Entries 50
Mean 50.95
Std Dev 39.85


pull1D
Entries 50
Mean 0.1282
Std Dev 4.497


yield_bpm1X_rms vs run
χ² / ndf 8.755e+04 / 49
p0 0.1549 ± 0.0001628
0.25
0.2
0.15
0.1
0.05
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
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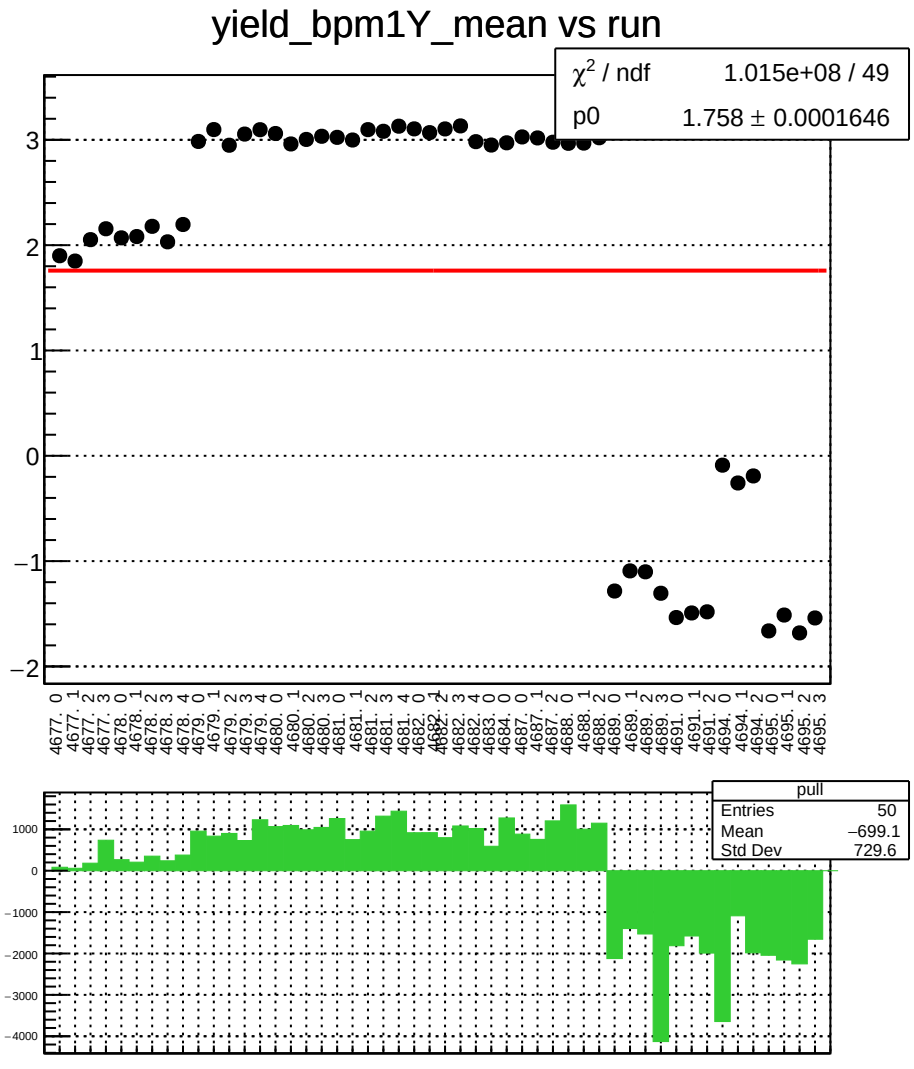
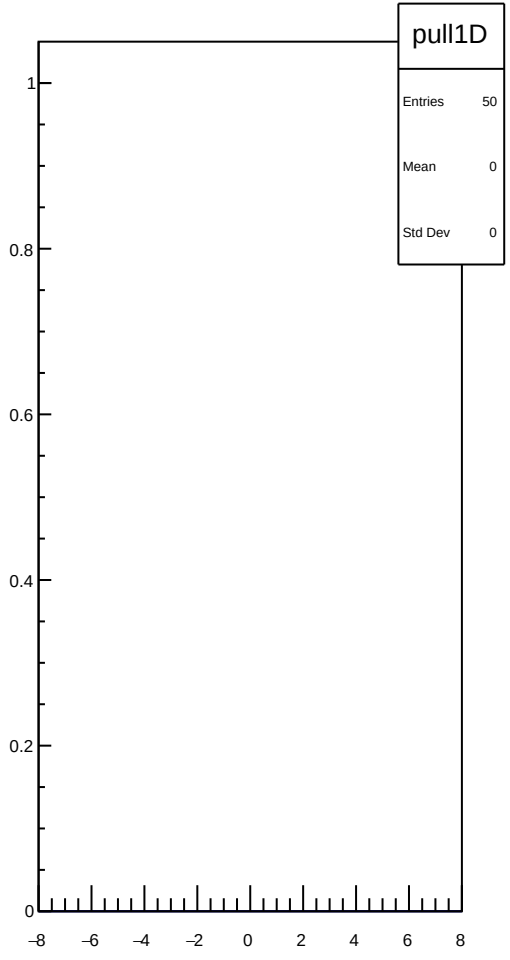
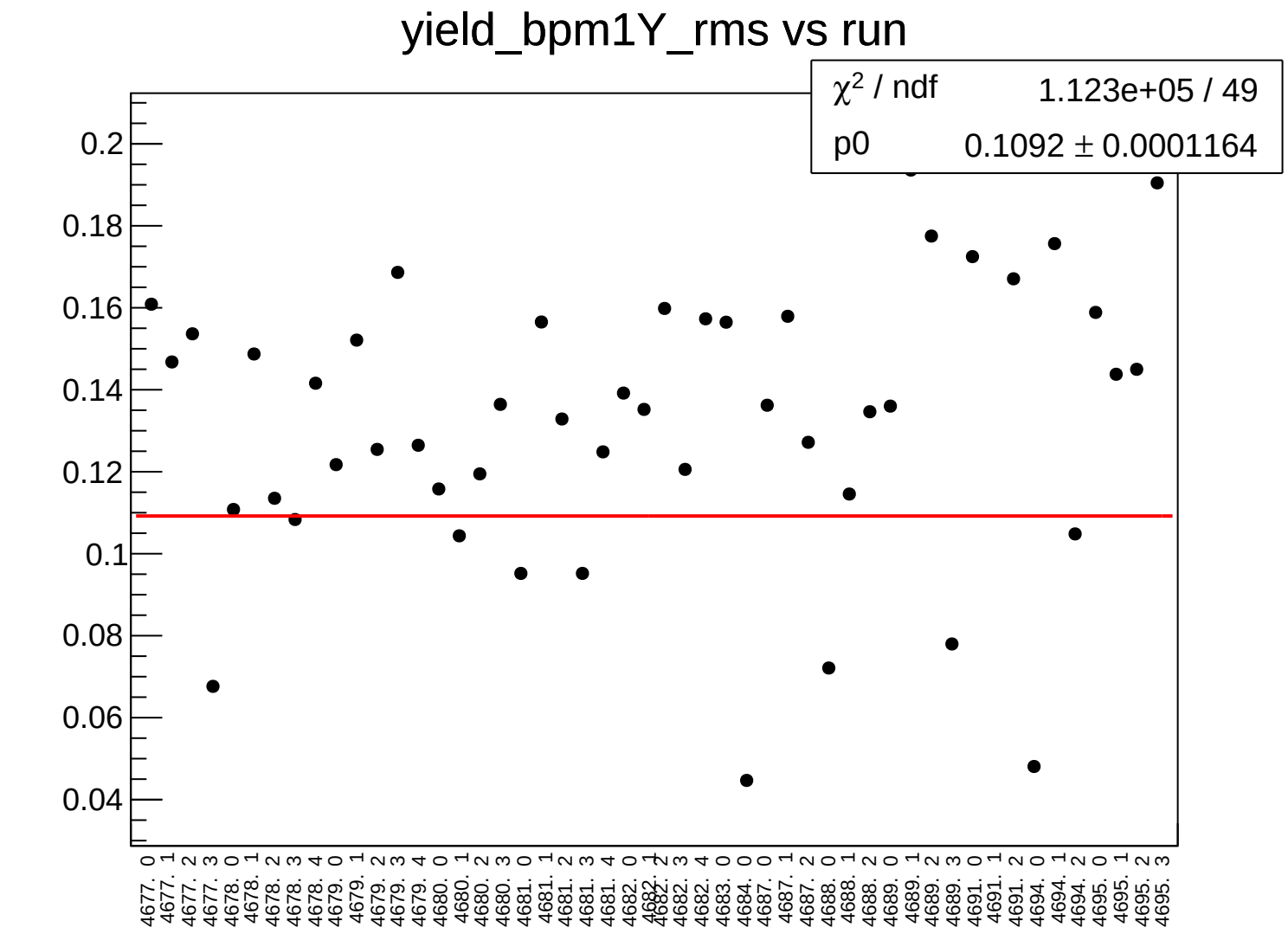
4695. 2
4695. 3


yield_bpm1Y_mean vs run
χ² / ndf 1.015e+08 / 49
p0 1.758 ± 0.0001646
pull
Entries 50
Mean −699.1
Std Dev 729.6


pull1D
Entries 50
Mean 0
Std Dev 0


yield_bpm1Y_rms vs run
χ² / ndf 1.123e+05 / 49
p0 0.1092 ± 0.0001164
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
4677. 0
4677. 1
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4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
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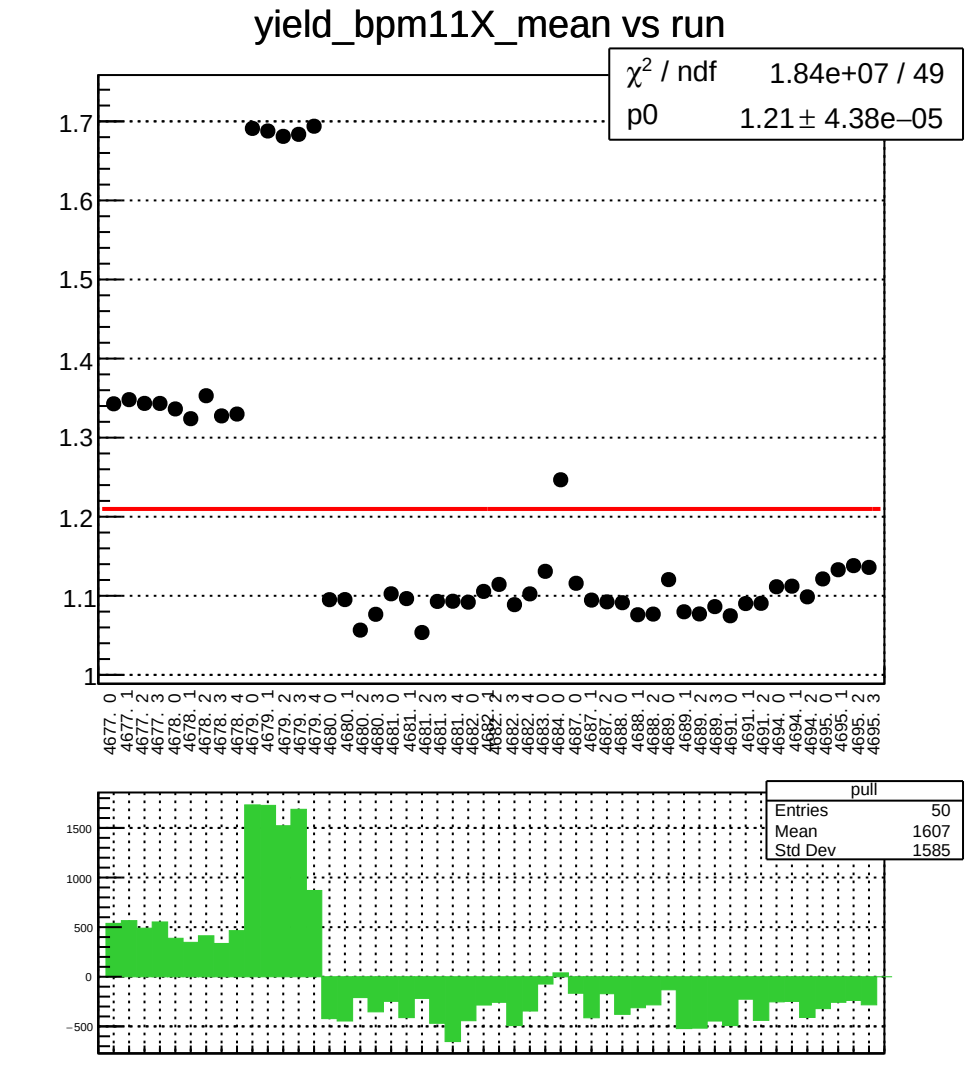
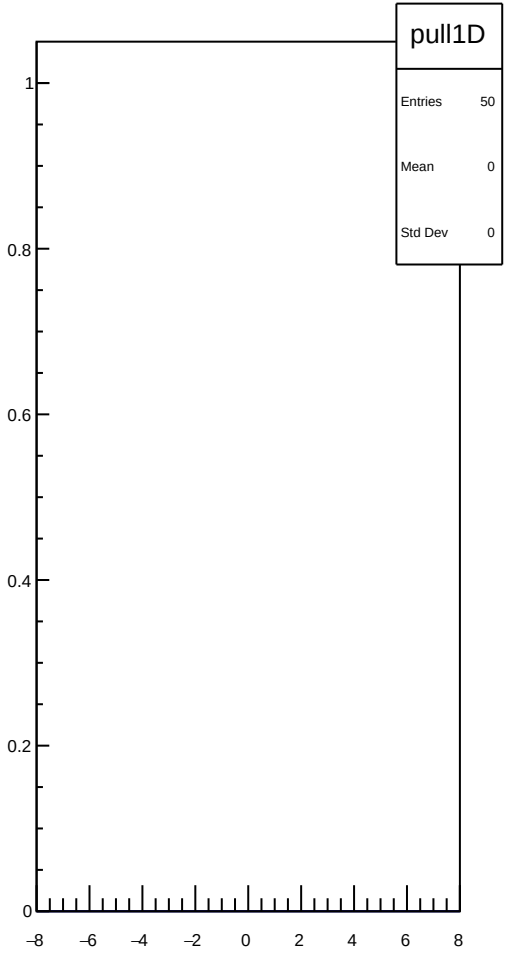
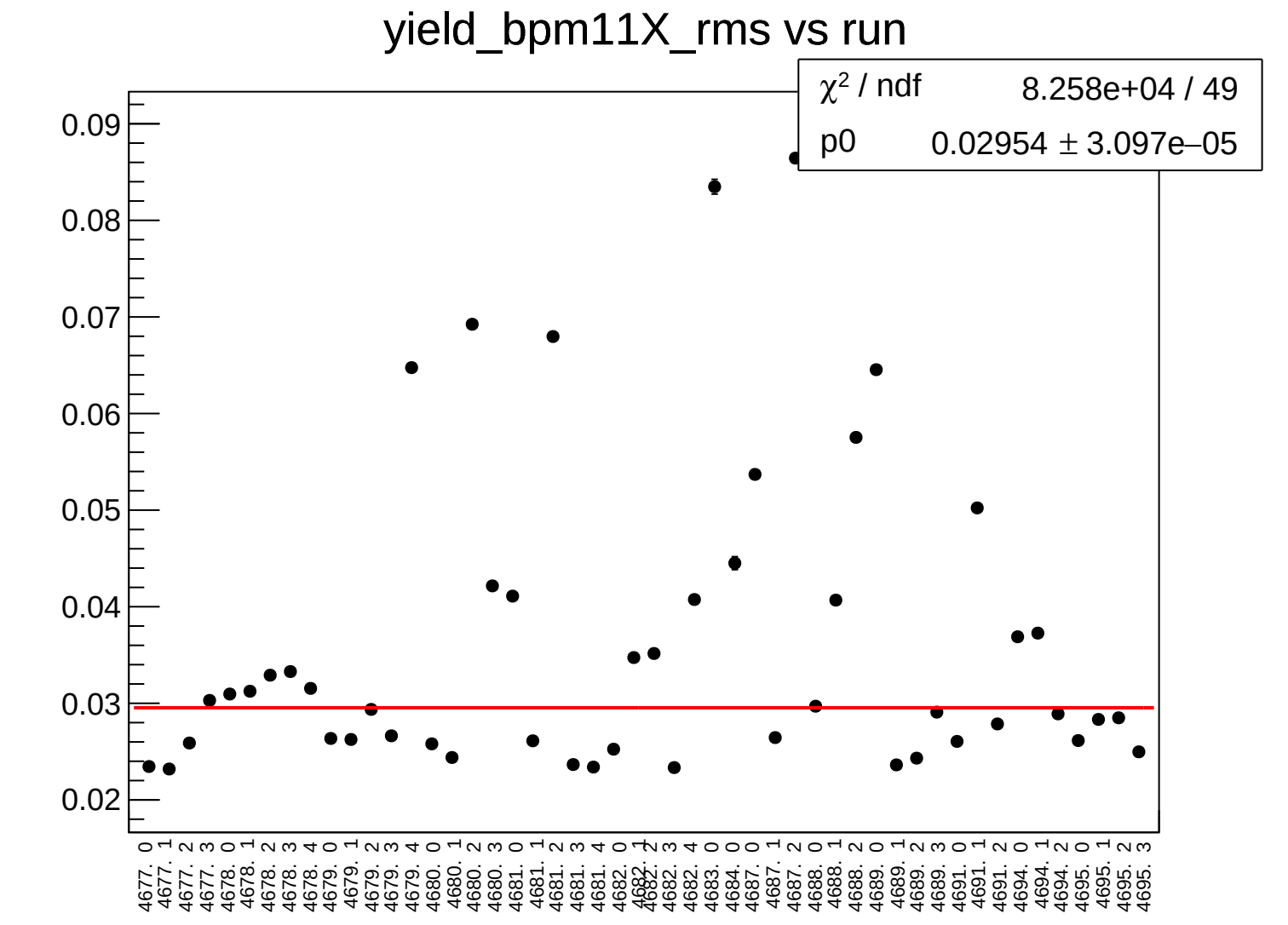
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


yield_bpm11X_mean vs run
χ² / ndf 1.84e+07 / 49
p0 1.21 ± 4.38e−05
pull
Entries 50
Mean 1607
Std Dev 1585


pull1D
Entries 50
Mean 0
Std Dev 0


yield_bpm11X_rms vs run
χ² / ndf 8.258e+04 / 49
p0 0.02954 ± 3.097e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4691. 2
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4694. 1
4694. 2
4695. 0
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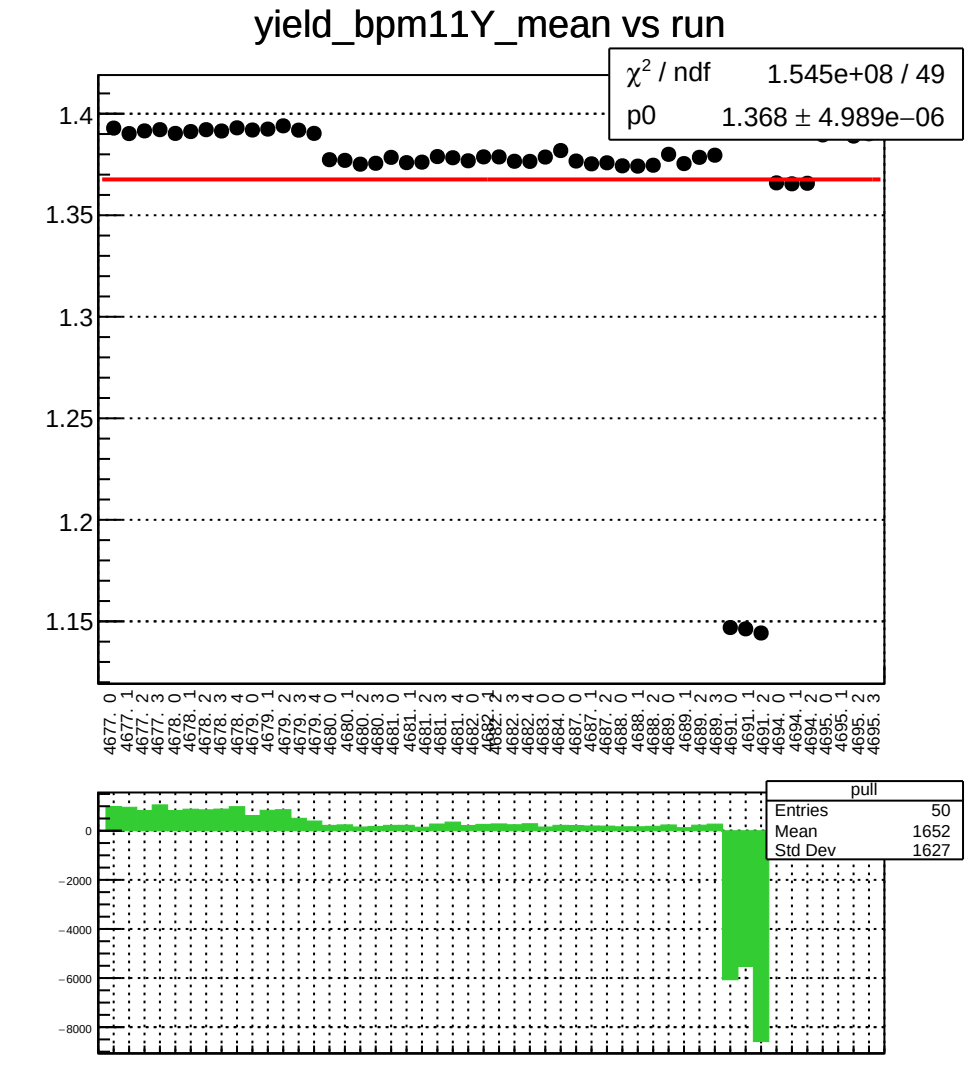
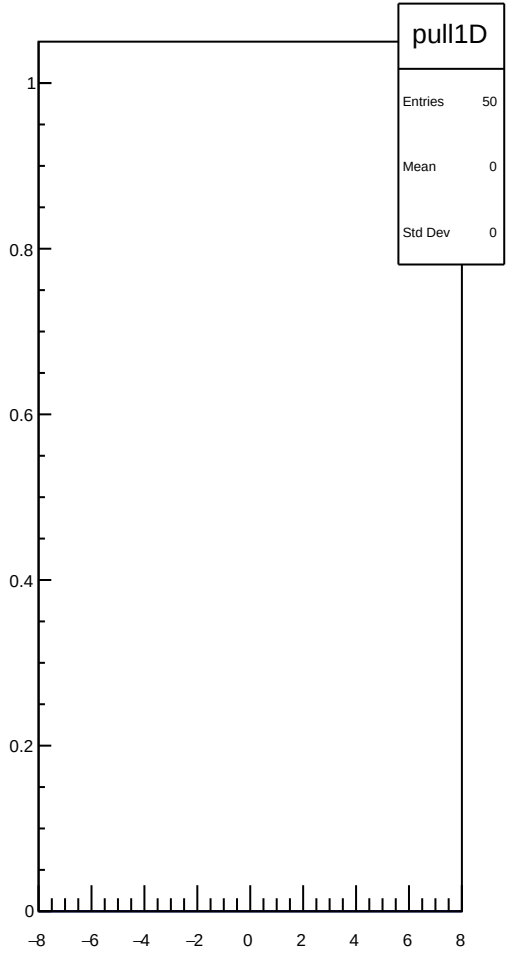
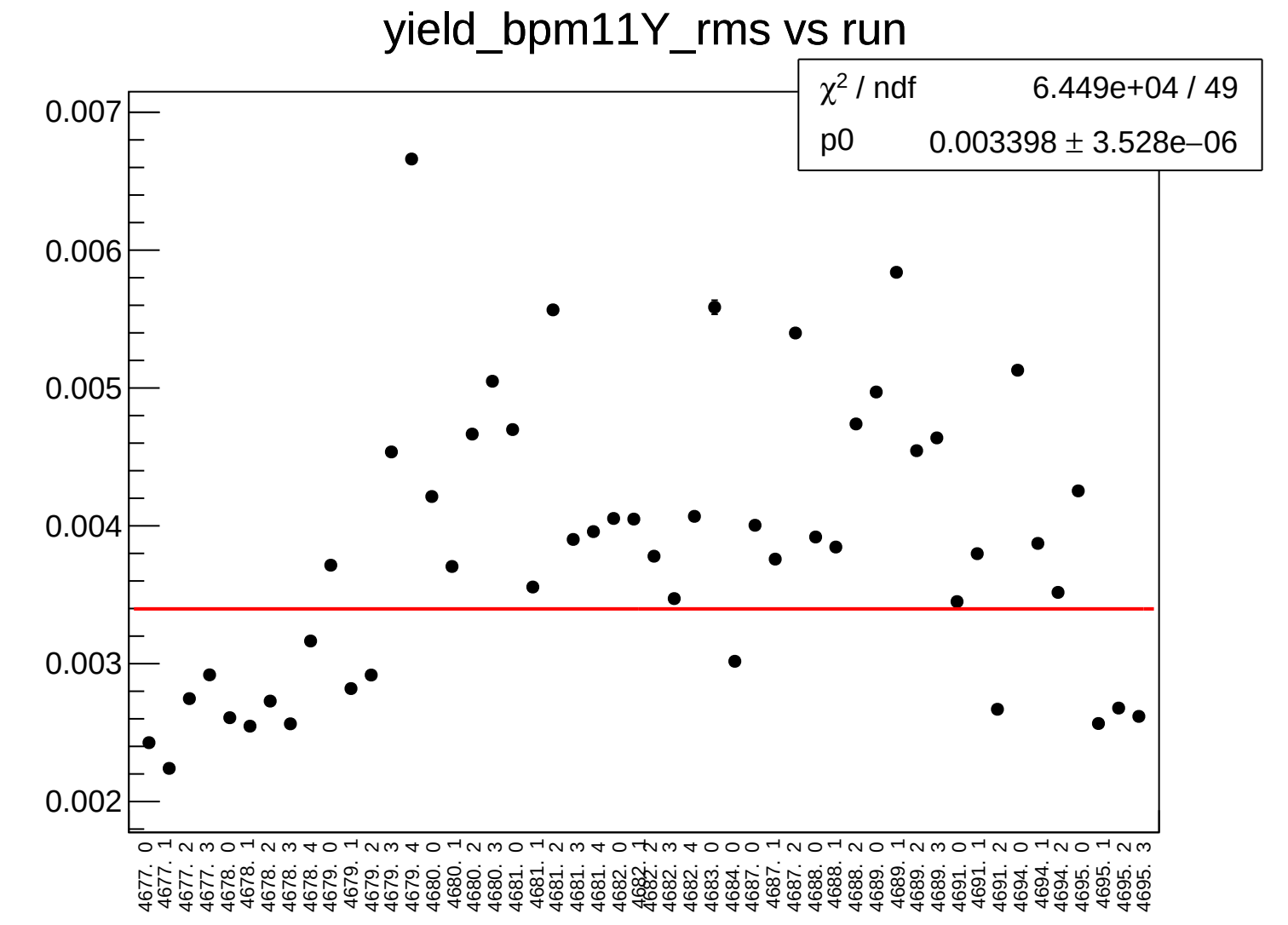
4695. 2
4695. 3


yield_bpm11Y_mean vs run
χ² / ndf 1.545e+08 / 49
p0 1.368 ± 4.989e−06
1.4
1.35
1.3
1.25
1.2
1.15
pull
Entries 50
Mean 1652
Std Dev 1627
0
−2000
−4000
−6000
−8000


pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm11Y_rms vs run
χ² / ndf 6.449e+04 / 49
p0 0.003398 ± 3.528e−06
0.007
0.006
0.005
0.004
0.003
0.002
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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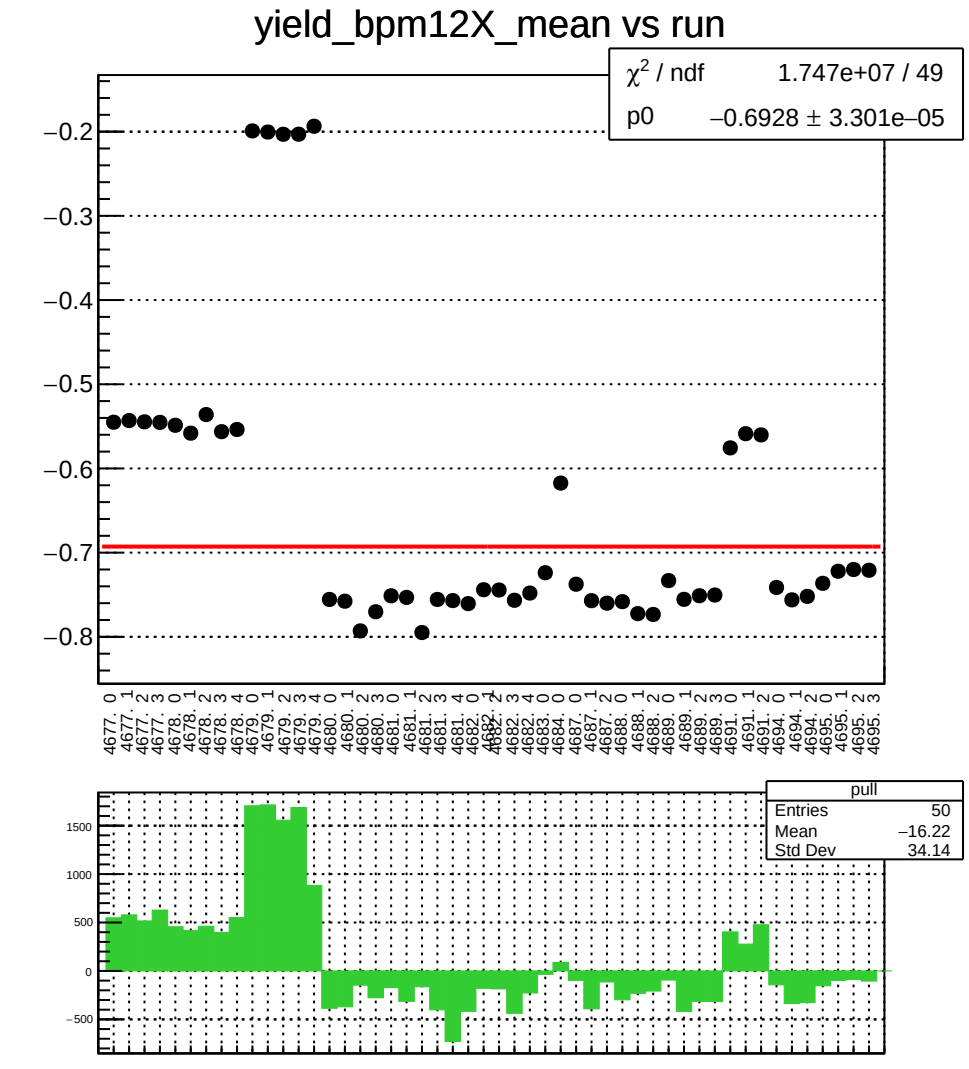
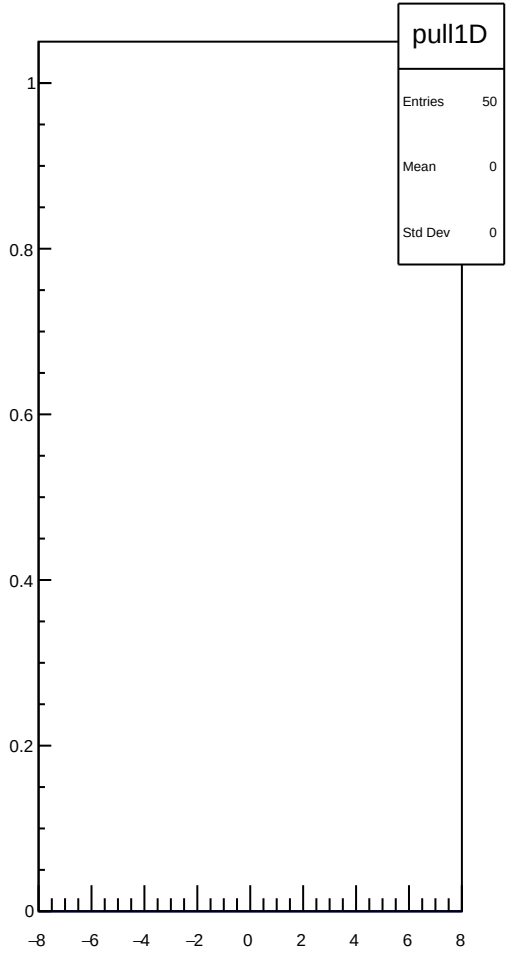
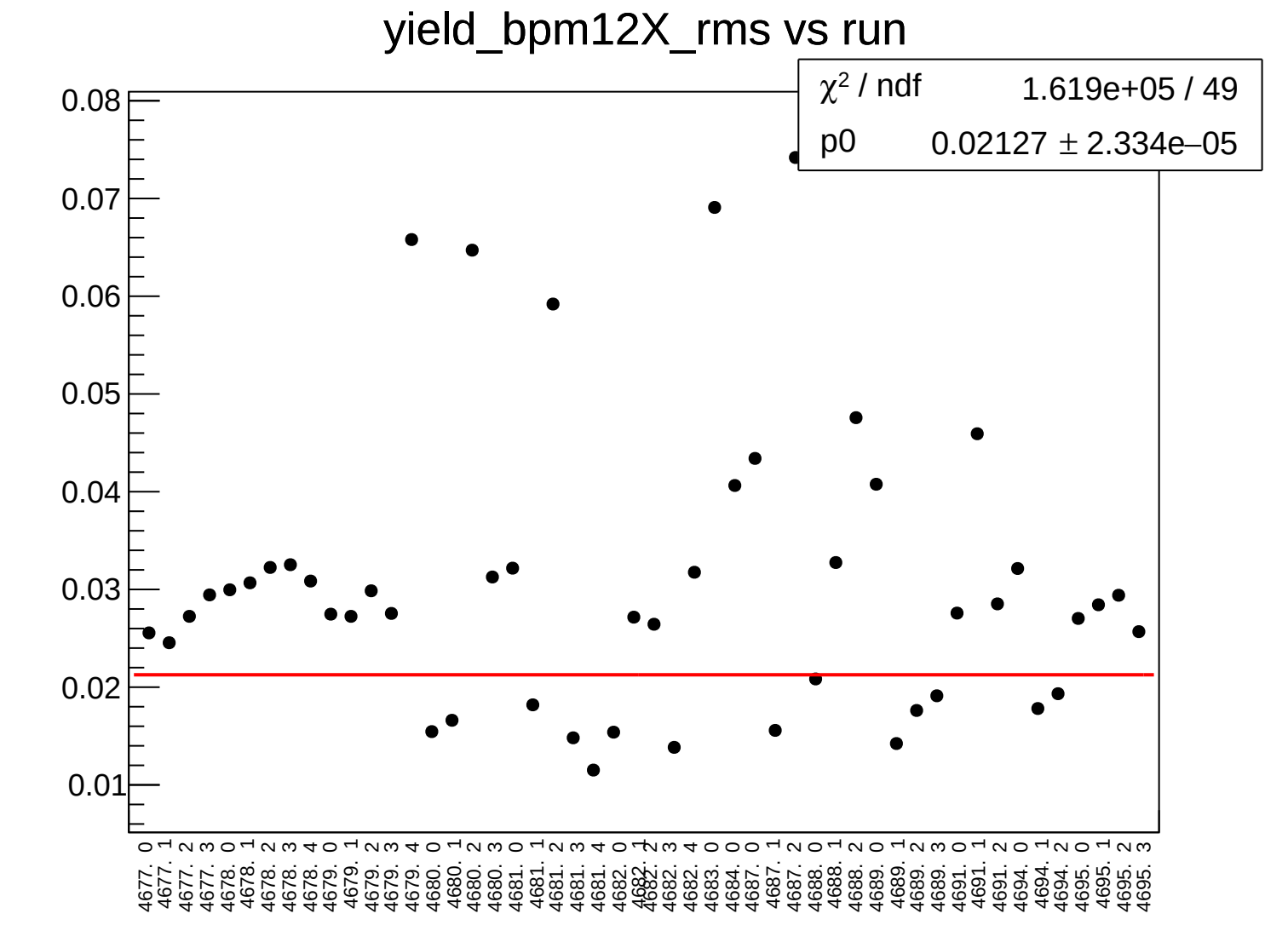
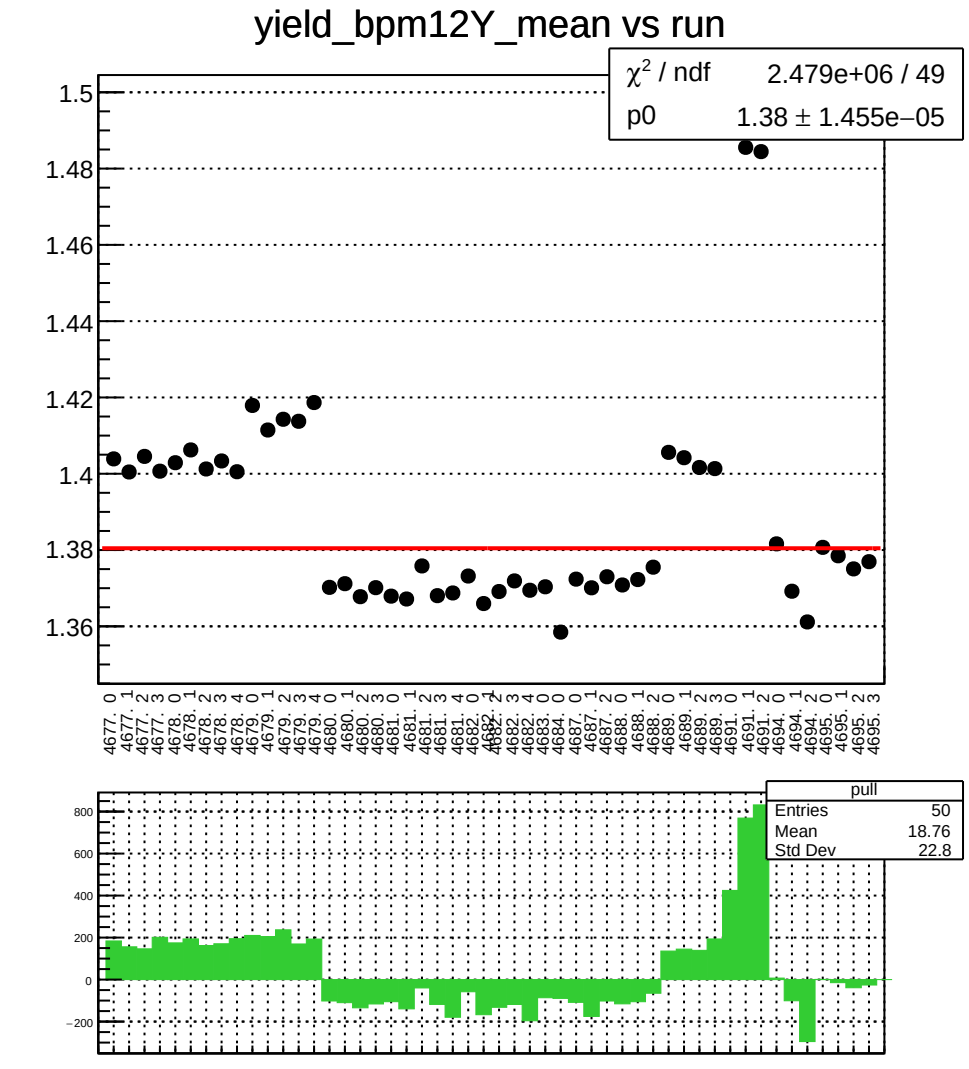
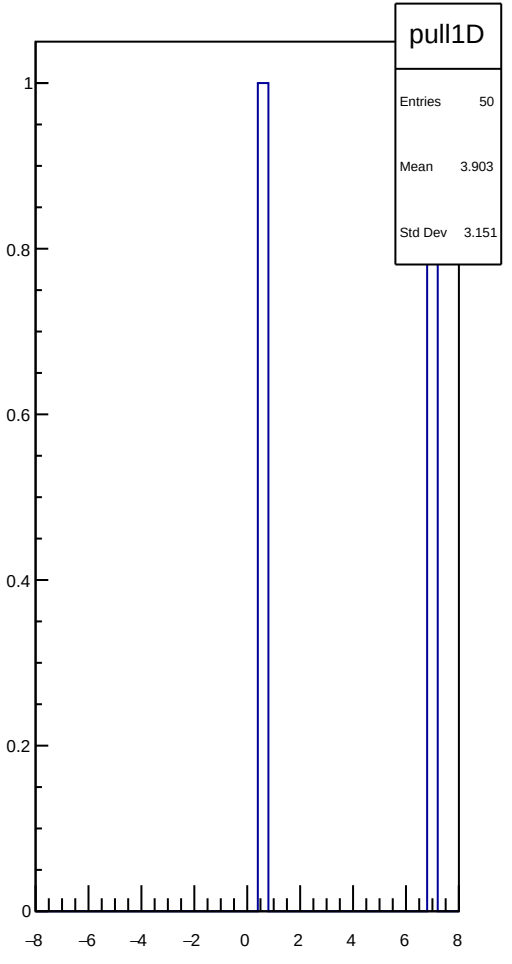
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

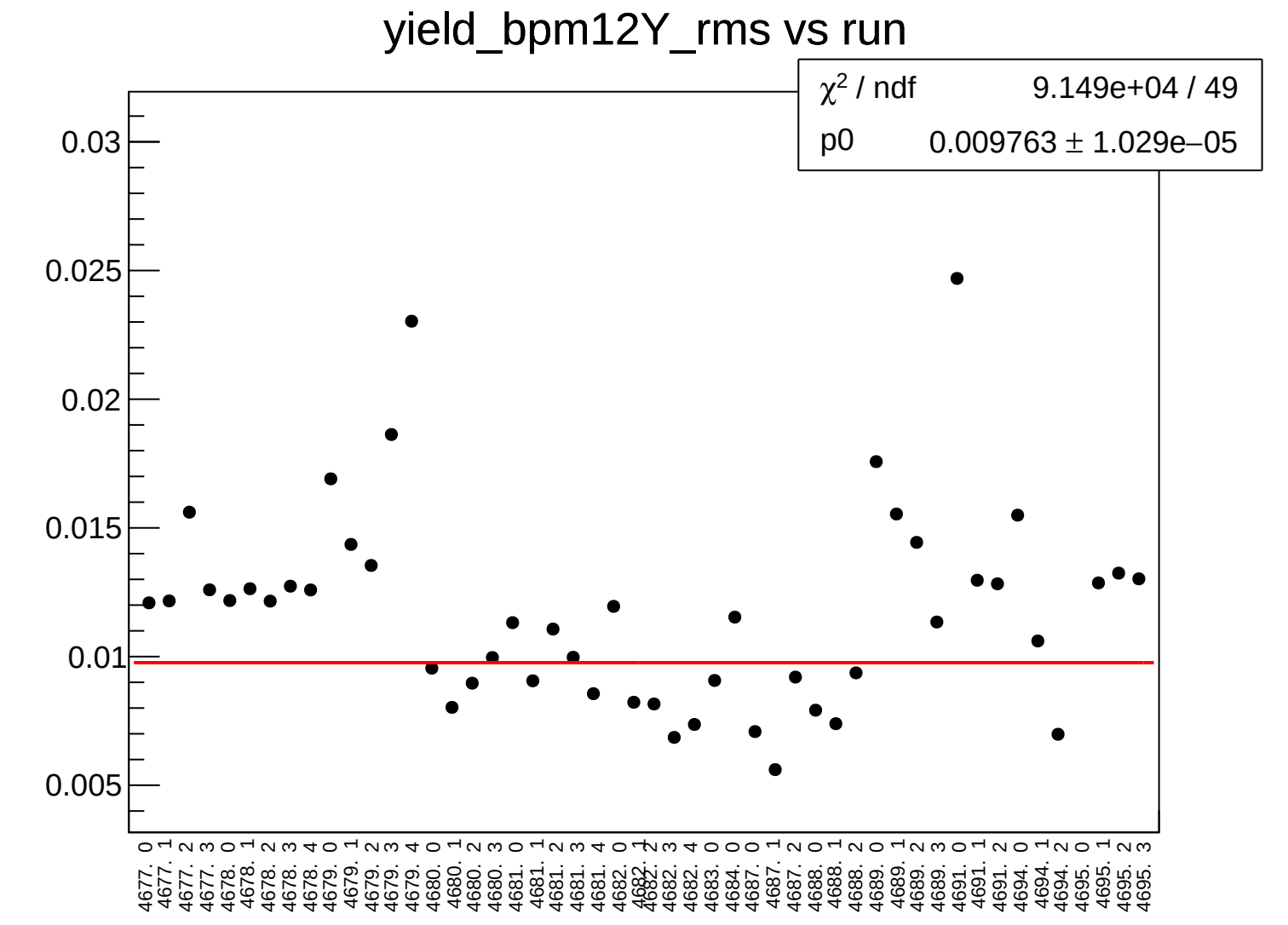

yield_bpm12X_mean vs run
χ² / ndf 1.747e+07 / 49
p0 −0.6928 ± 3.301e−05
pull
Entries 50
Mean −16.22
Std Dev 34.14

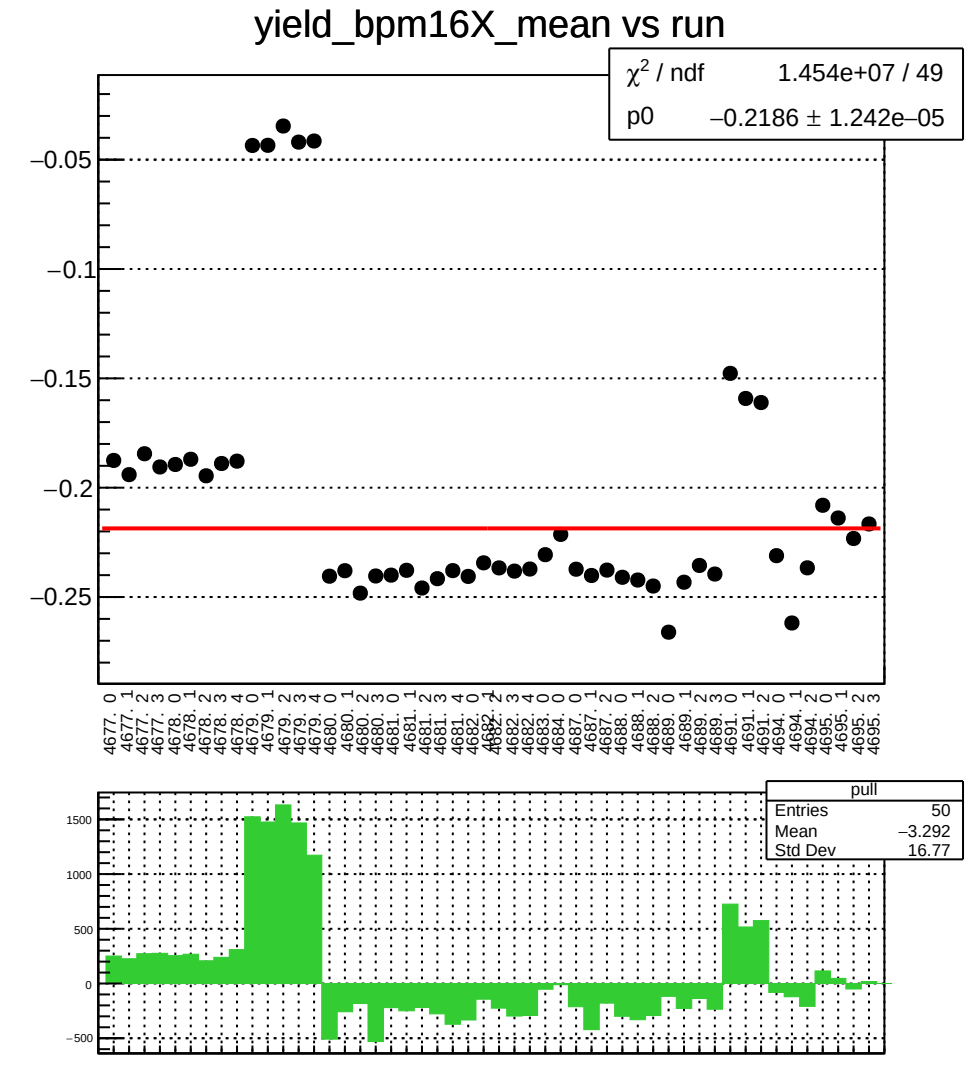

pull1D
Entries 50
Mean 0
Std Dev 0

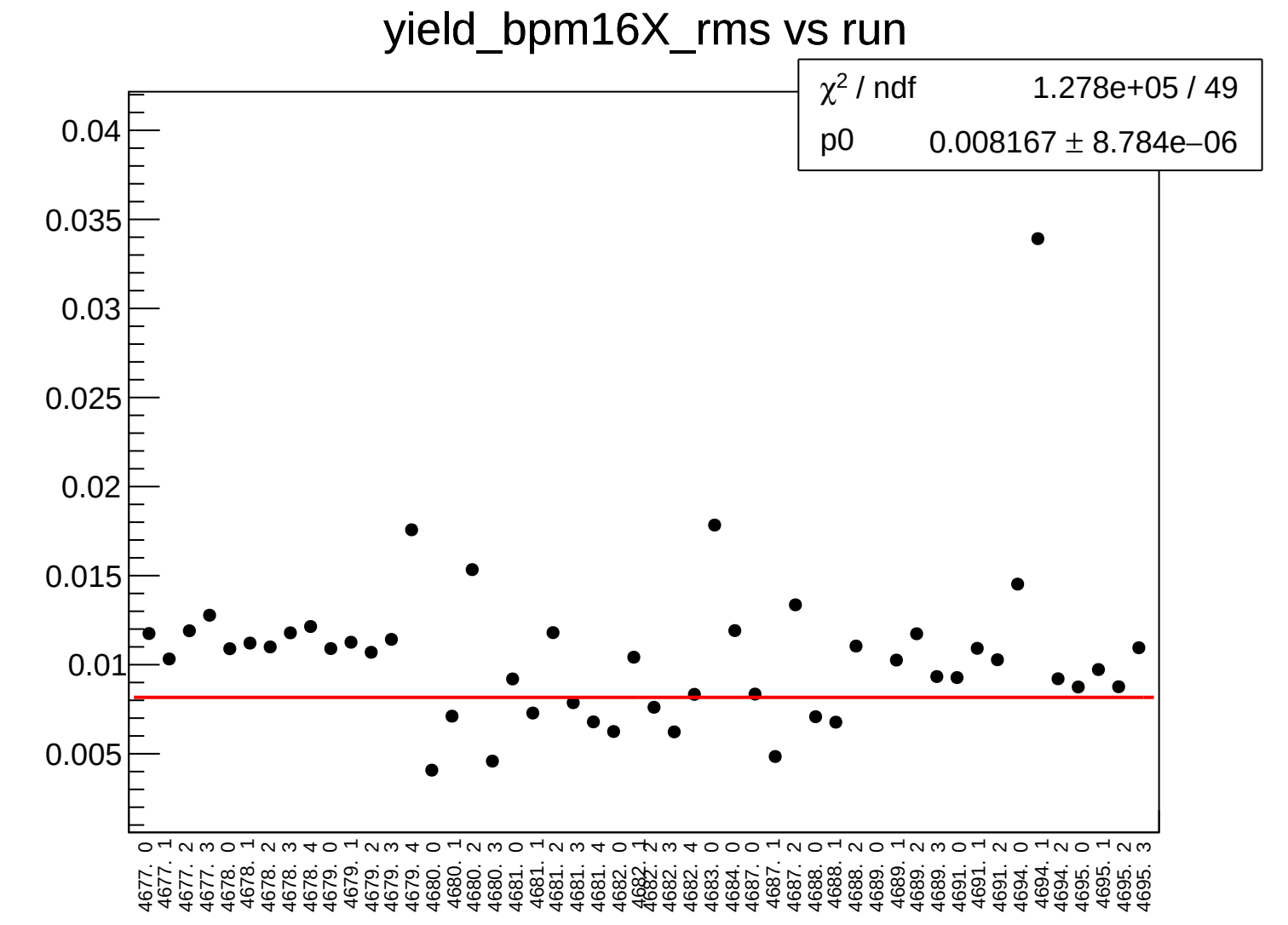

yield_bpm12X_rms vs run
χ² / ndf 1.619e+05 / 49
p0 0.02127 ± 2.334e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

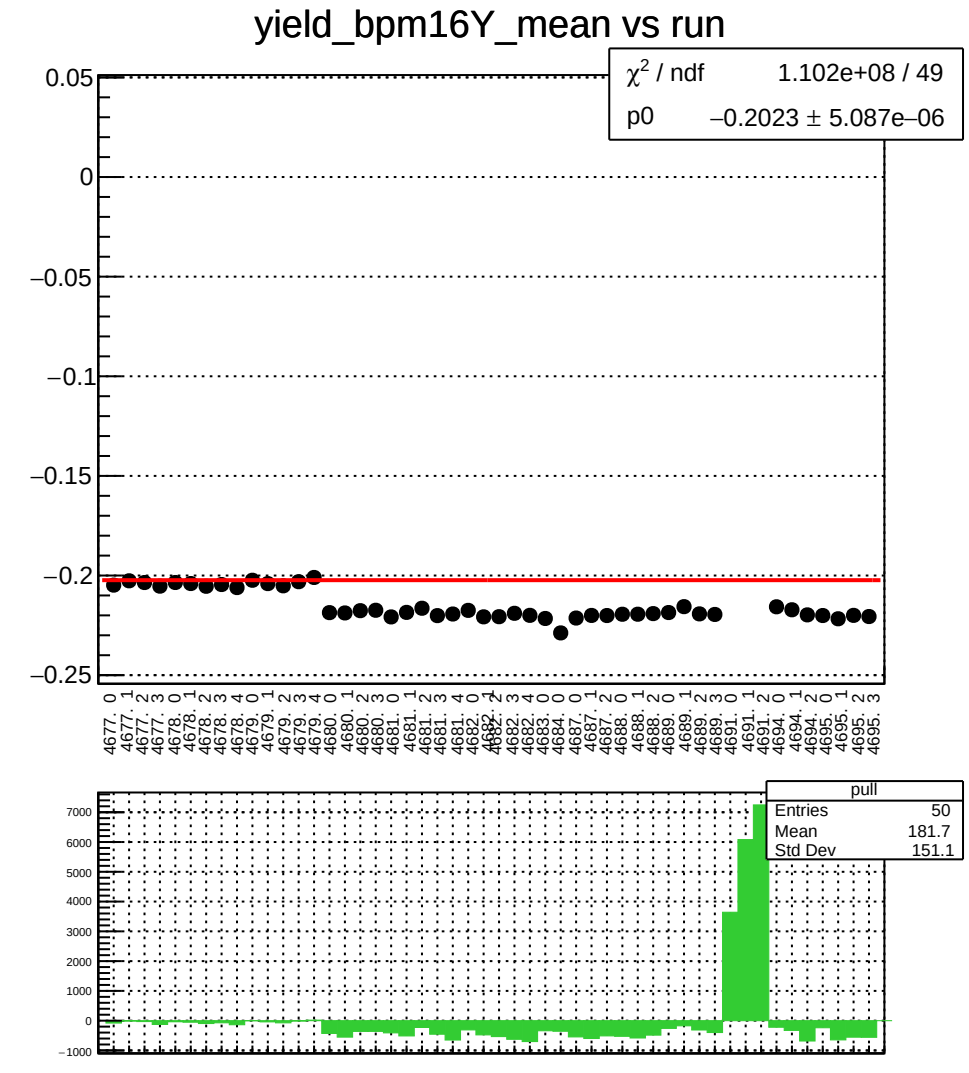

yield_bpm12Y_mean vs run
χ² / ndf 2.479e+06 / 49
p0 1.38 ± 1.455e−05
1.5
1.48
1.46
1.44
1.42
1.4
1.38
1.36
pull
Entries 50
Mean 18.76
Std Dev 22.8
800
600
400
200
0
−200

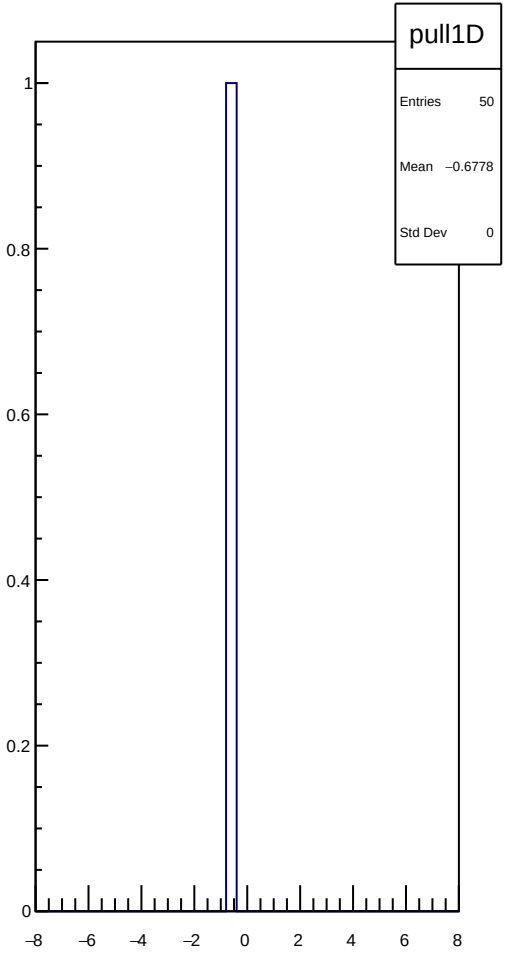

pull1D
Entries 50
Mean 3.903
Std Dev 3.151
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

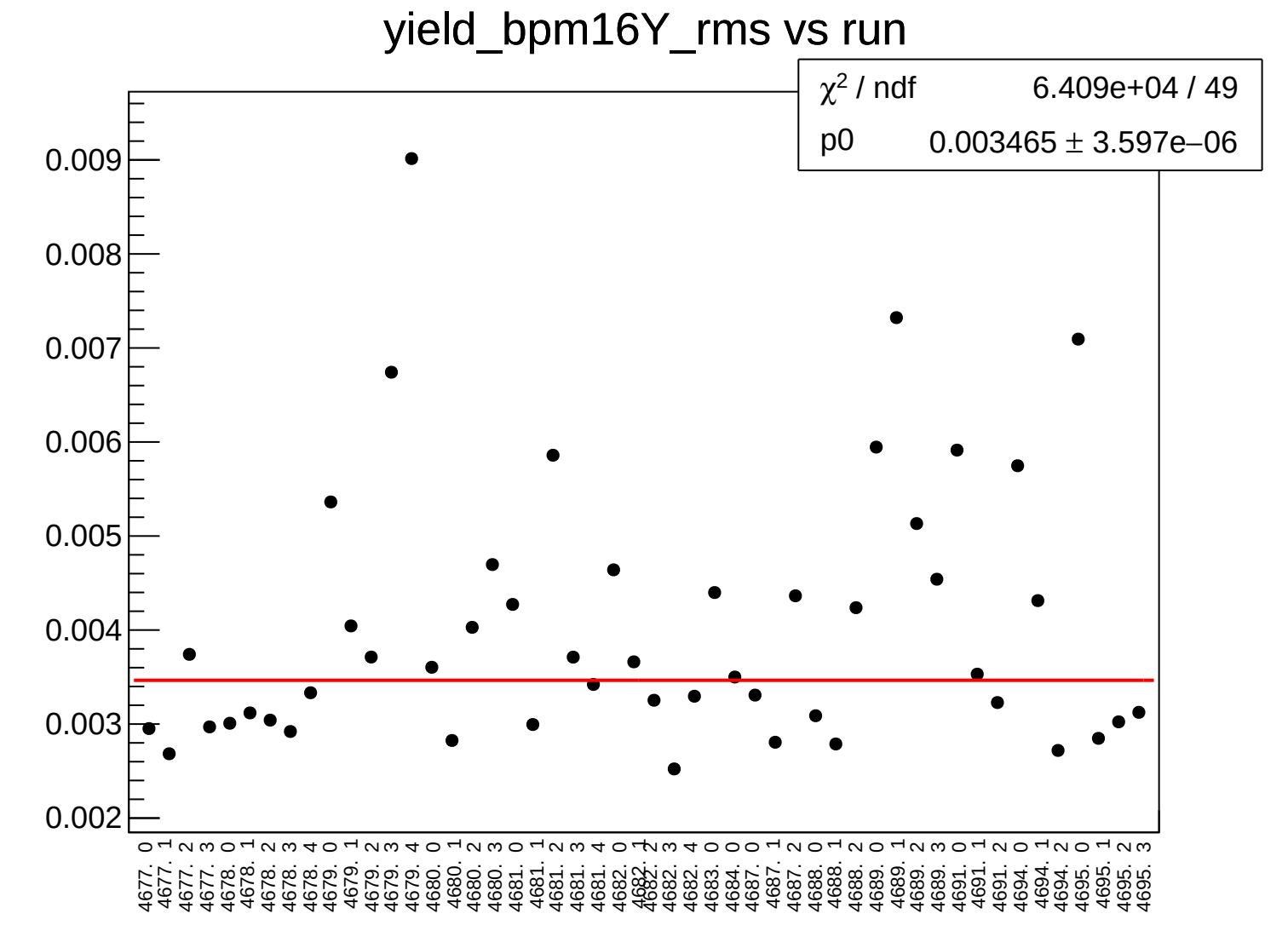

yield_bpm12Y_rms vs run
χ² / ndf 9.149e+04 / 49
p0 0.009763 ± 1.029e−05
0.03
0.025
0.02
0.015
0.01
0.005
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

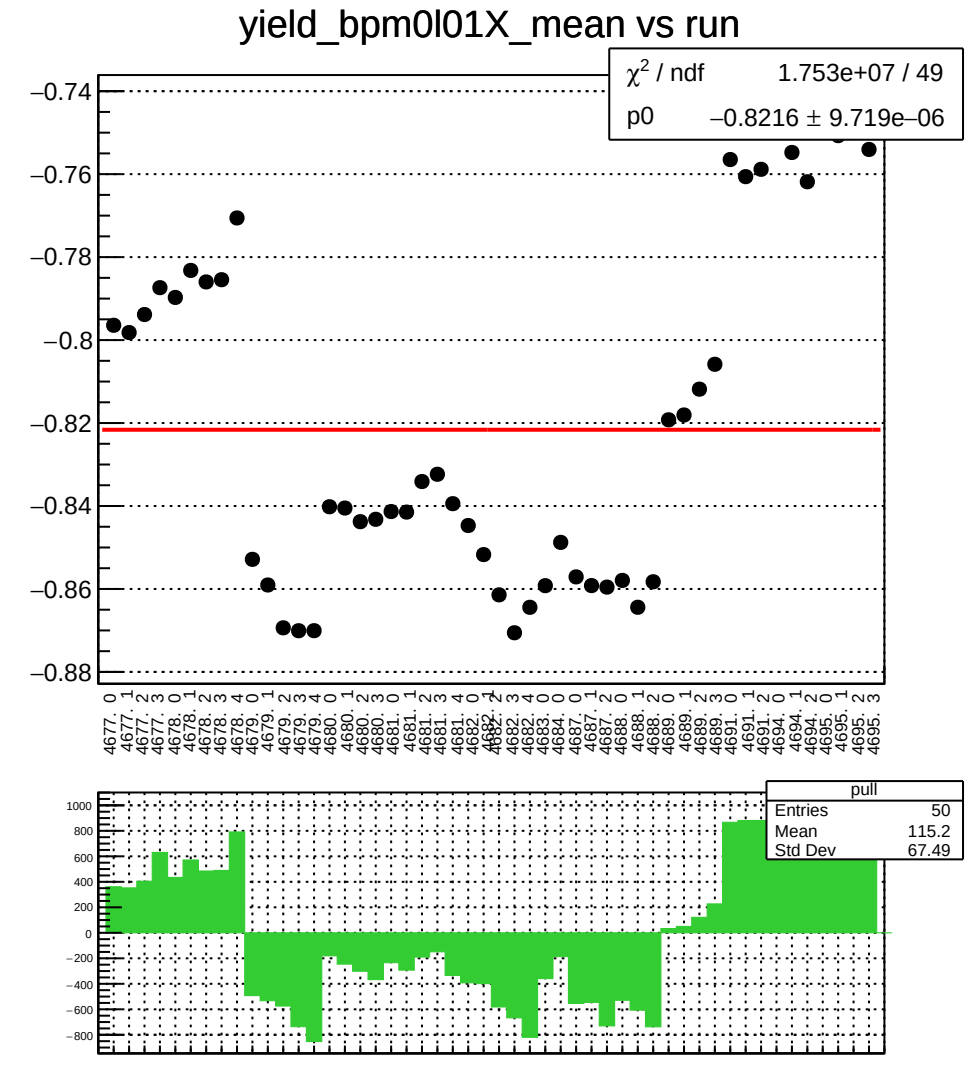

yield_bpm16X_mean vs run
χ² / ndf 1.454e+07 / 49
p0 −0.2186 ± 1.242e−05
−0.05
−0.1
−0.15
−0.2
−0.25
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean −3.292
Std Dev 16.77
1500
1000
500
0
−500
pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

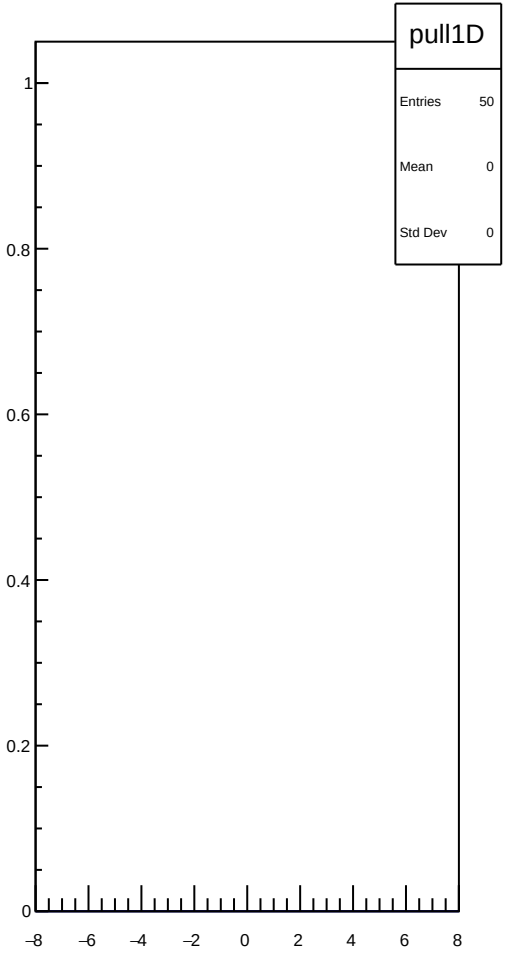

yield_bpm16X_rms vs run
χ² / ndf 1.278e+05 / 49
p0 0.008167 ± 8.784e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

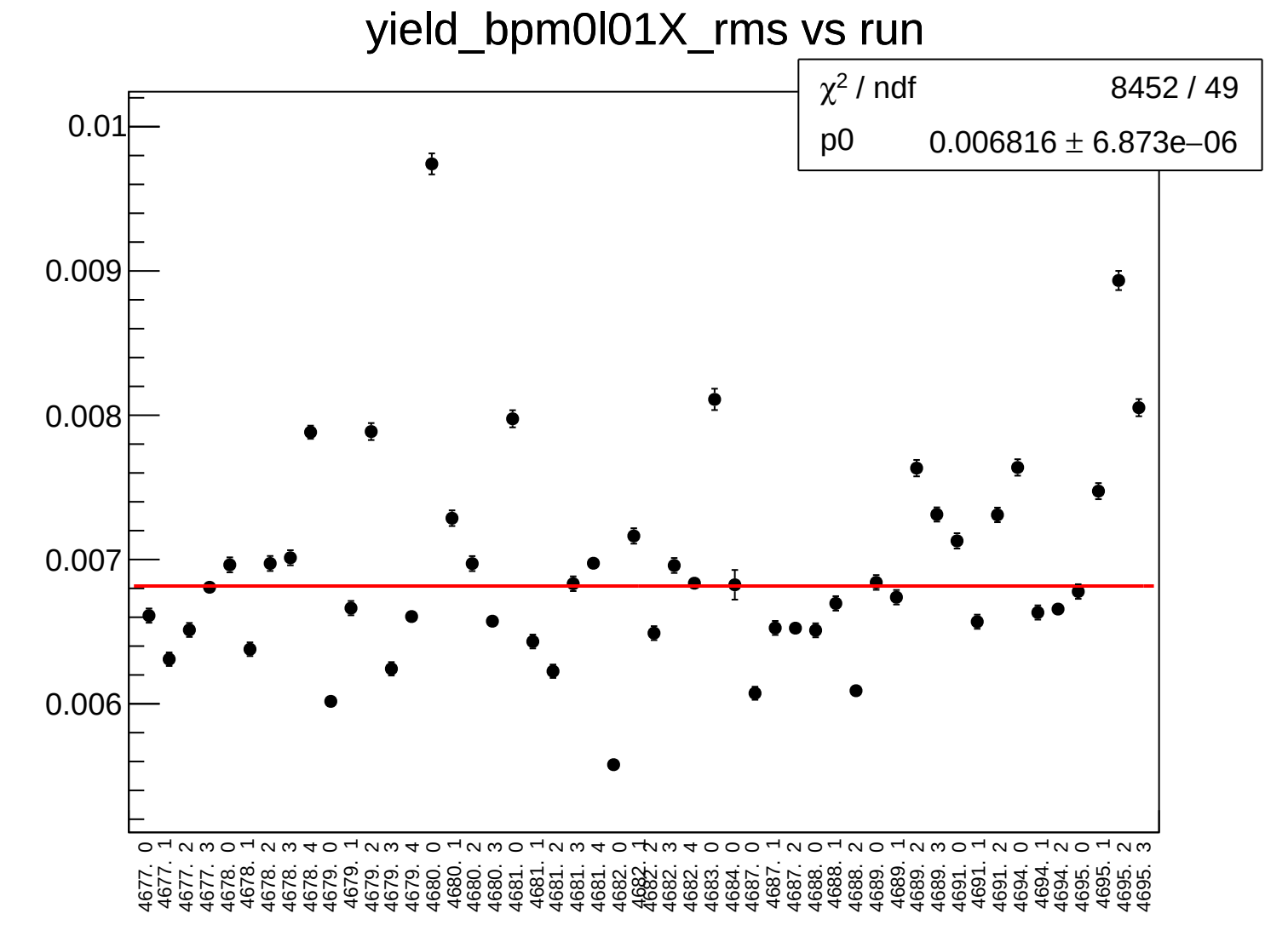

yield_bpm16Y_mean vs run
χ² / ndf 1.102e+08 / 49
p0 −0.2023 ± 5.087e−06
pull
Entries 50
Mean 181.7
Std Dev 151.1

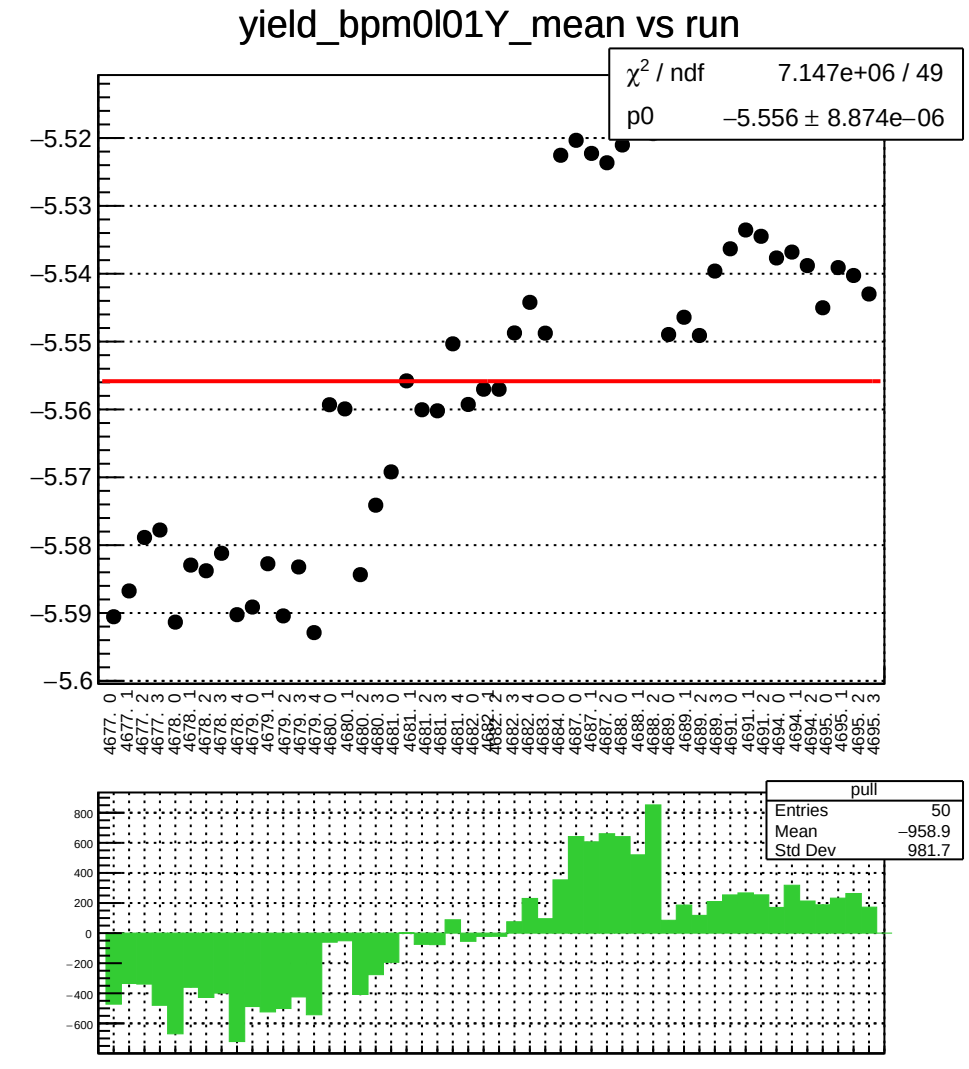

pull1D
Entries 50
Mean −0.6778
Std Dev 0

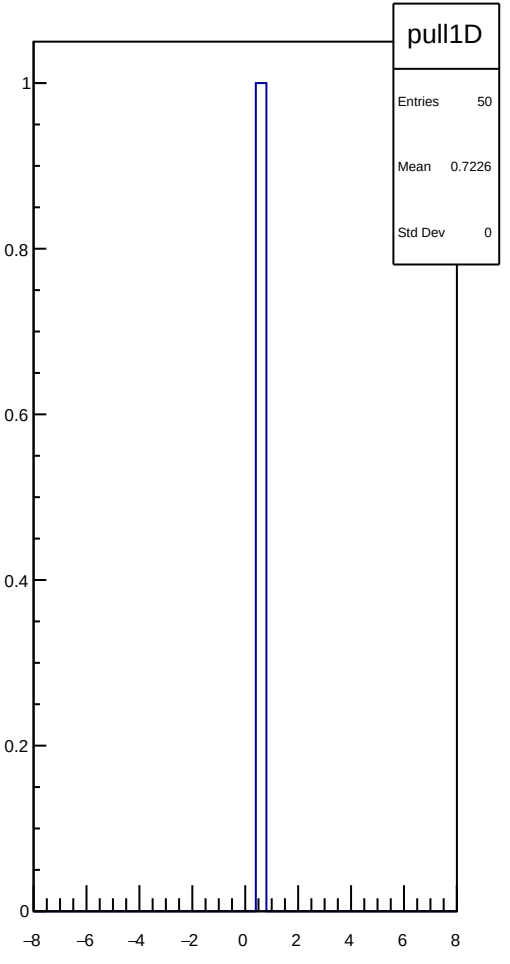

yield_bpm16Y_rms vs run
χ² / ndf 6.409e+04 / 49
p0 0.003465 ± 3.597e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

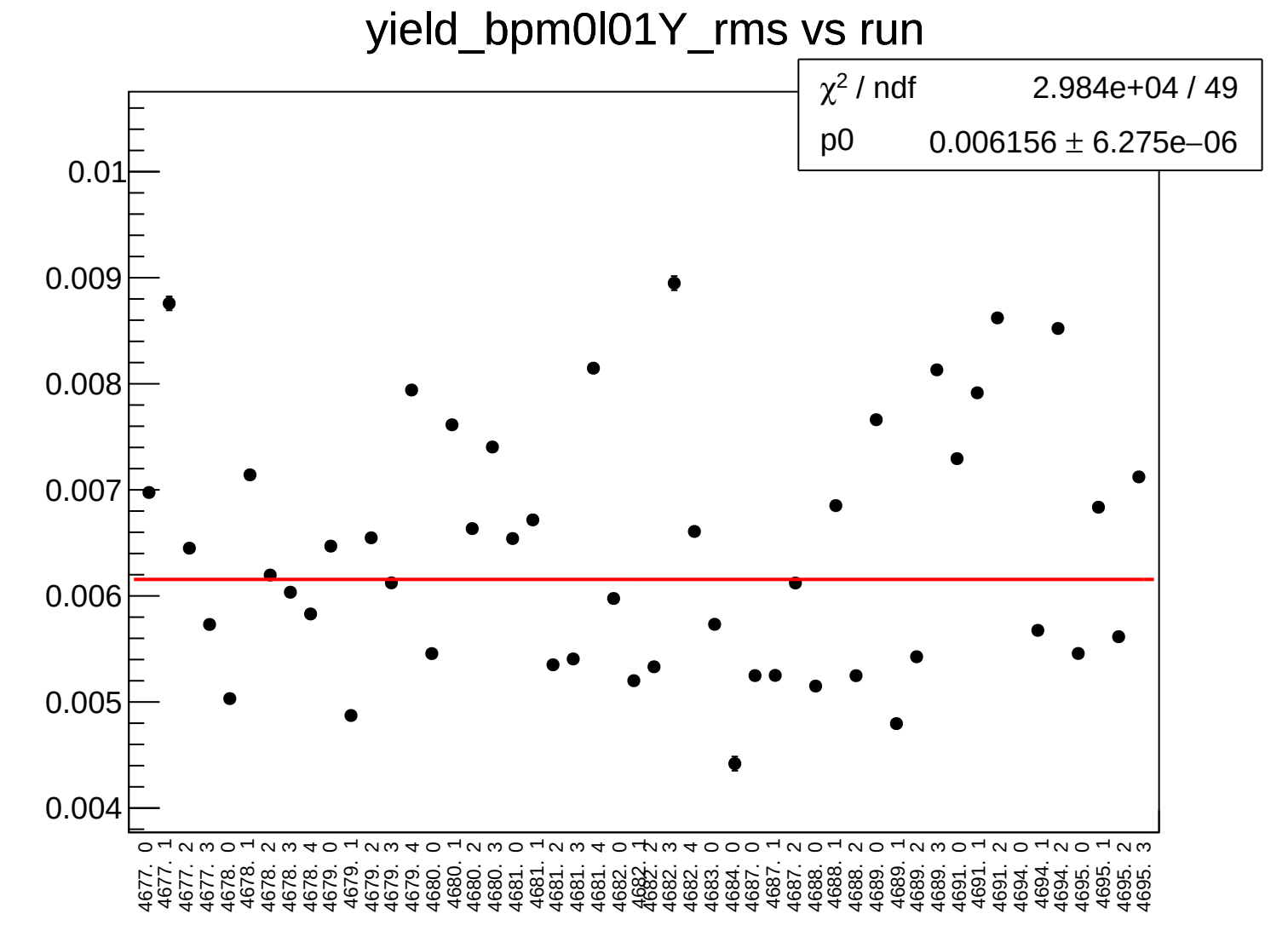

yield_bpm0l01X_mean vs run
χ² / ndf 1.753e+07 / 49
p0 −0.8216 ± 9.719e−06
−0.74
−0.76
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
pull
Entries 50
Mean 115.2
Std Dev 67.49
1000
800
600
400
200
0
−200
−400
−600
−800

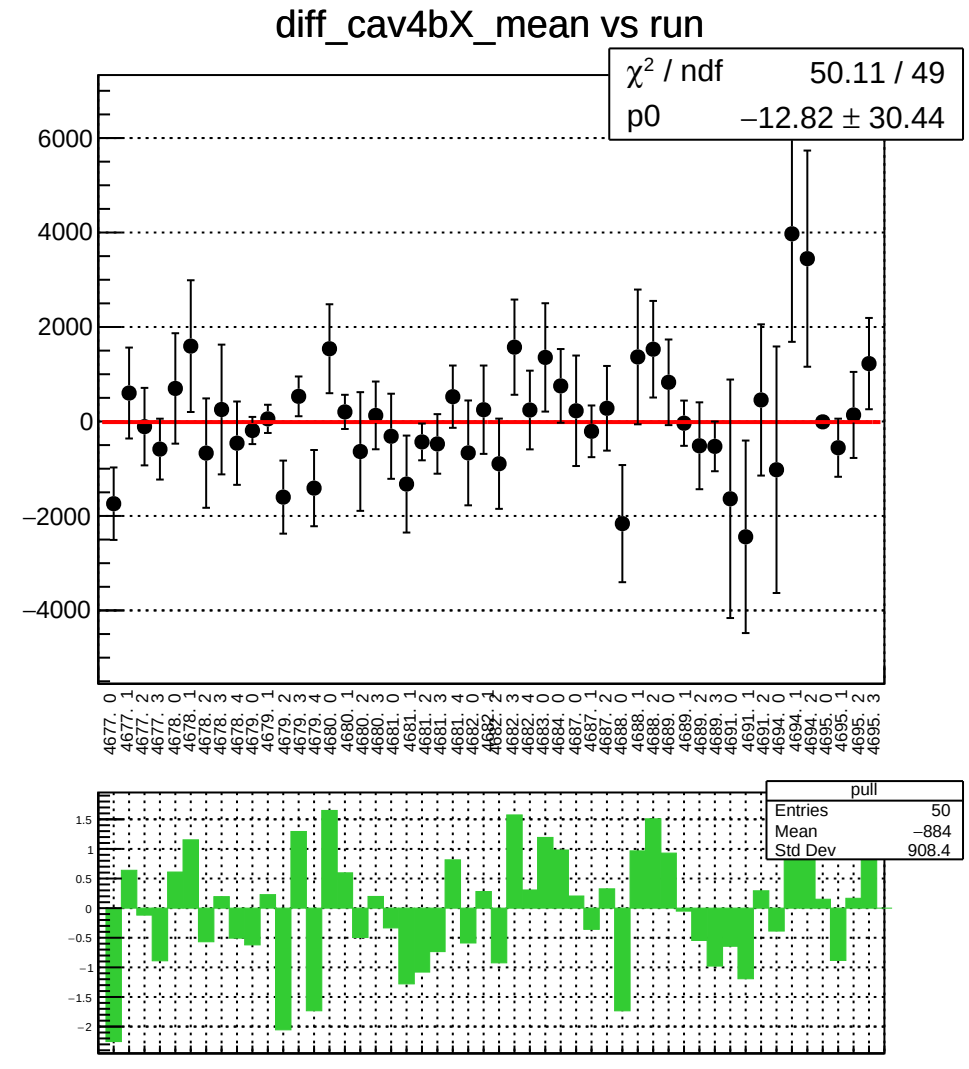

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

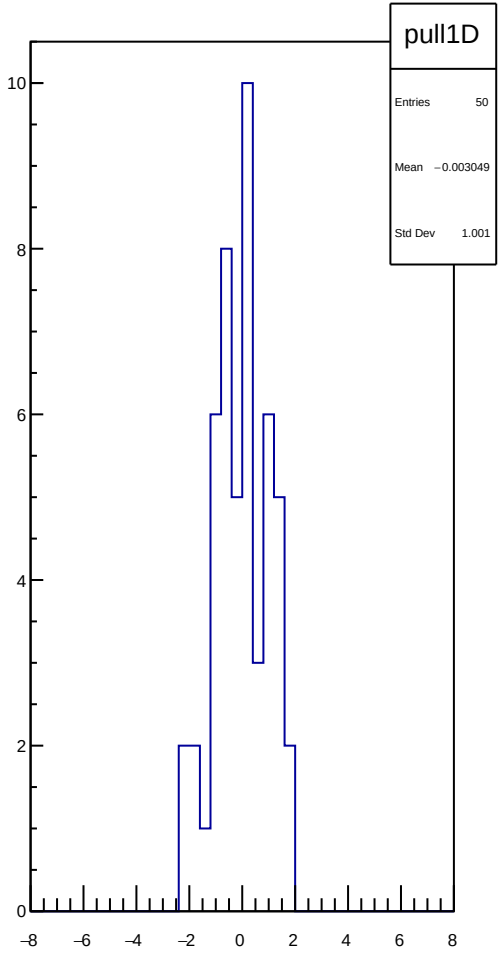

yield_bpm0l01X_rms vs run
χ² / ndf 8452 / 49
p0 0.006816 ± 6.873e−06
0.01
0.009
0.008
0.007
0.006
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

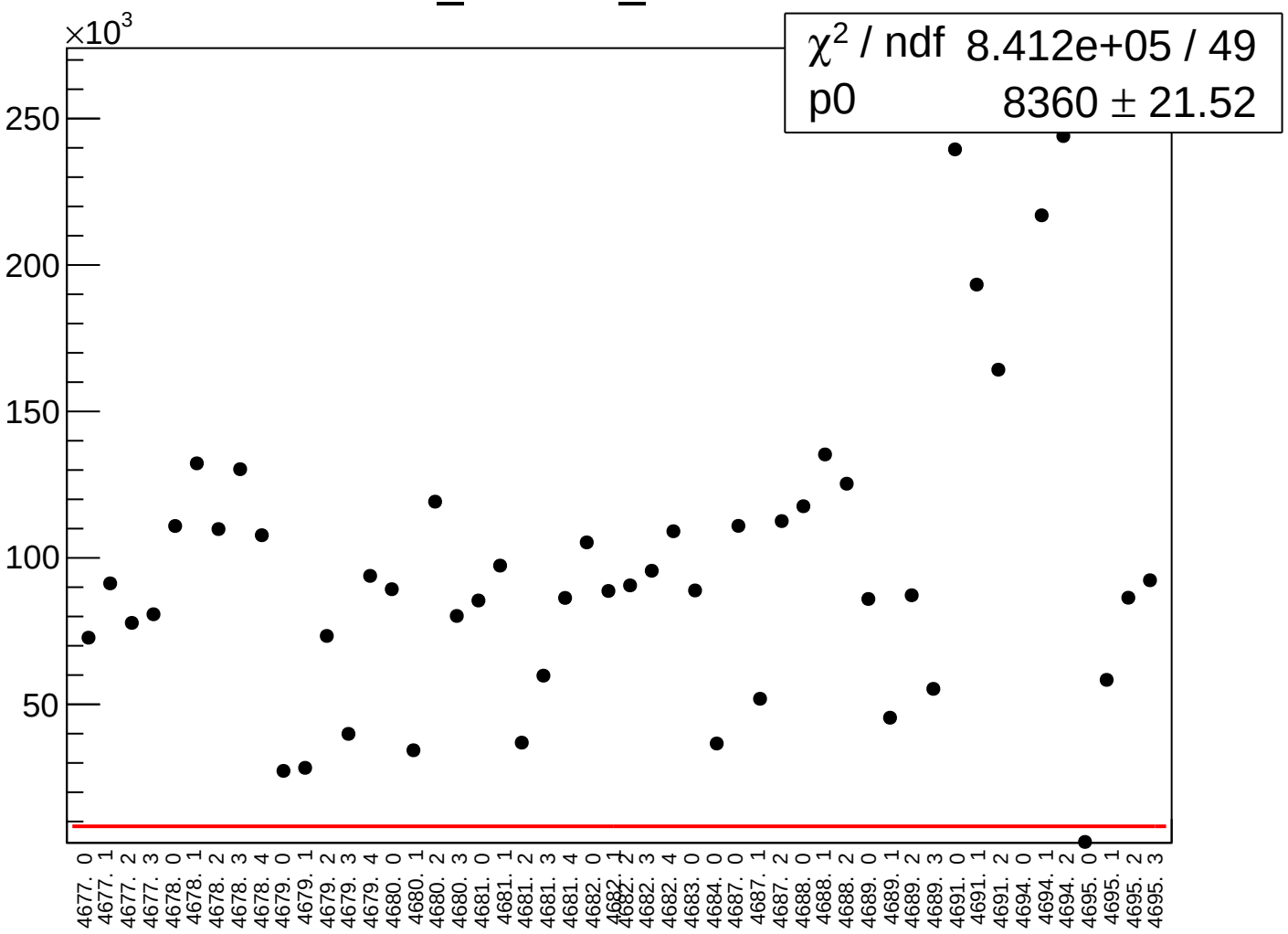

yield_bpm0l01Y_mean vs run
χ² / ndf 7.147e+06 / 49
p0 −5.556 ± 8.874e−06
−5.52
−5.53
−5.54
−5.55
−5.56
−5.57
−5.58
−5.59
−5.6
pull
Entries 50
Mean −958.9
Std Dev 981.7
800
600
400
200
0
−200
−400
−600

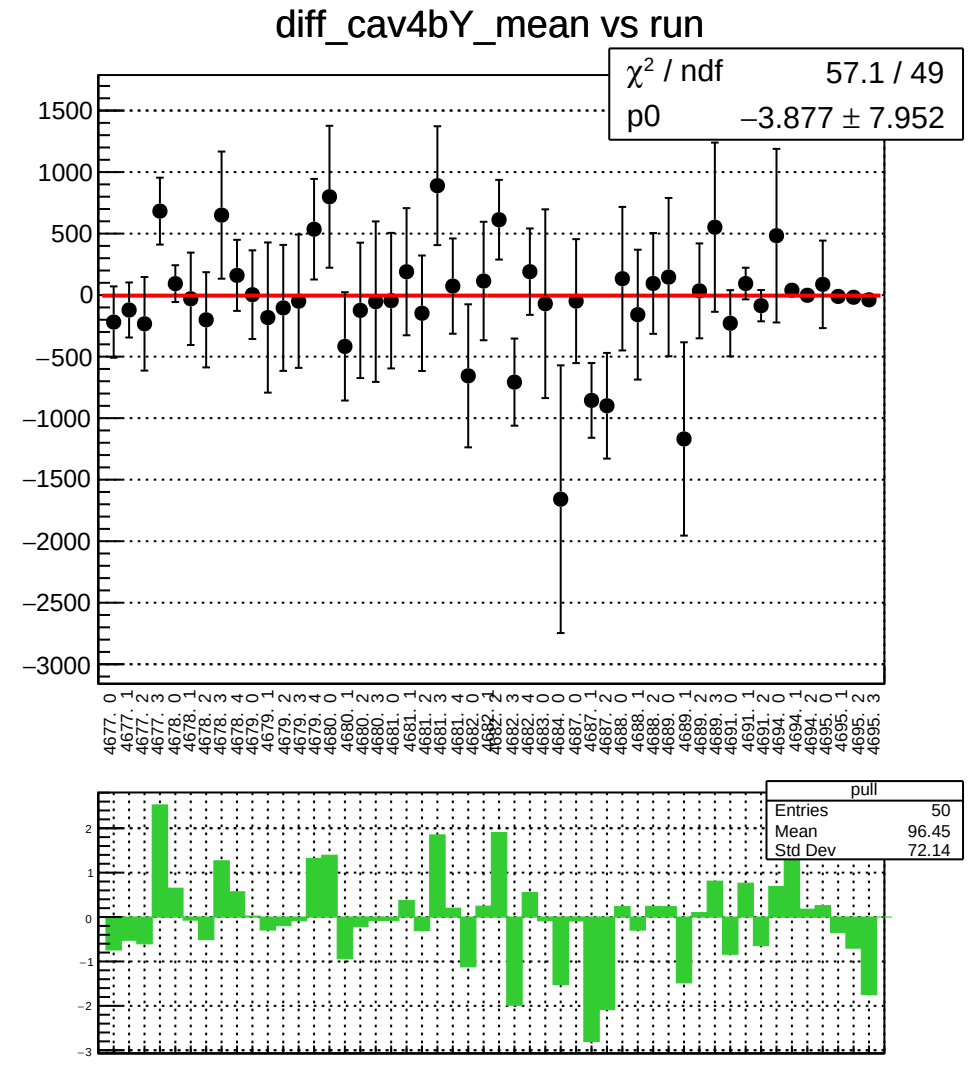

pull1D
Entries 50
Mean 0.7226
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

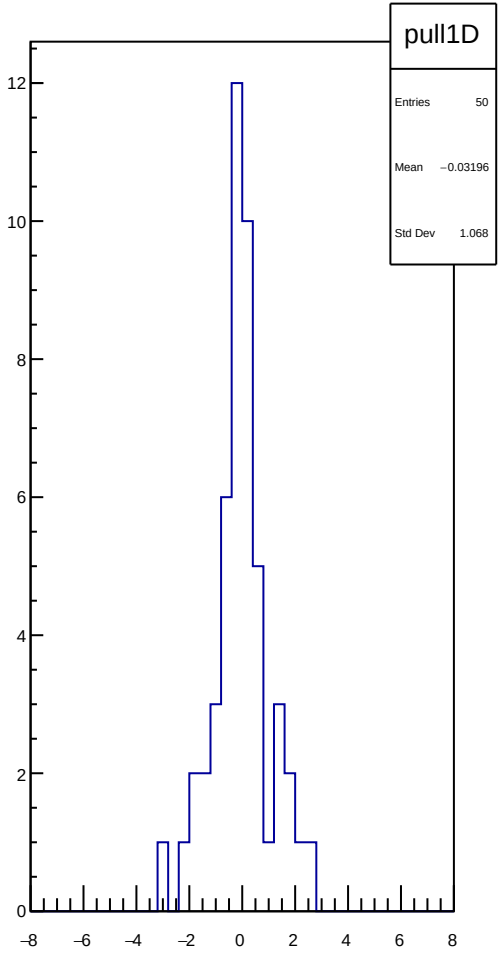

yield_bpm0l01Y_rms vs run
χ² / ndf 2.984e+04 / 49
p0 0.006156 ± 6.275e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

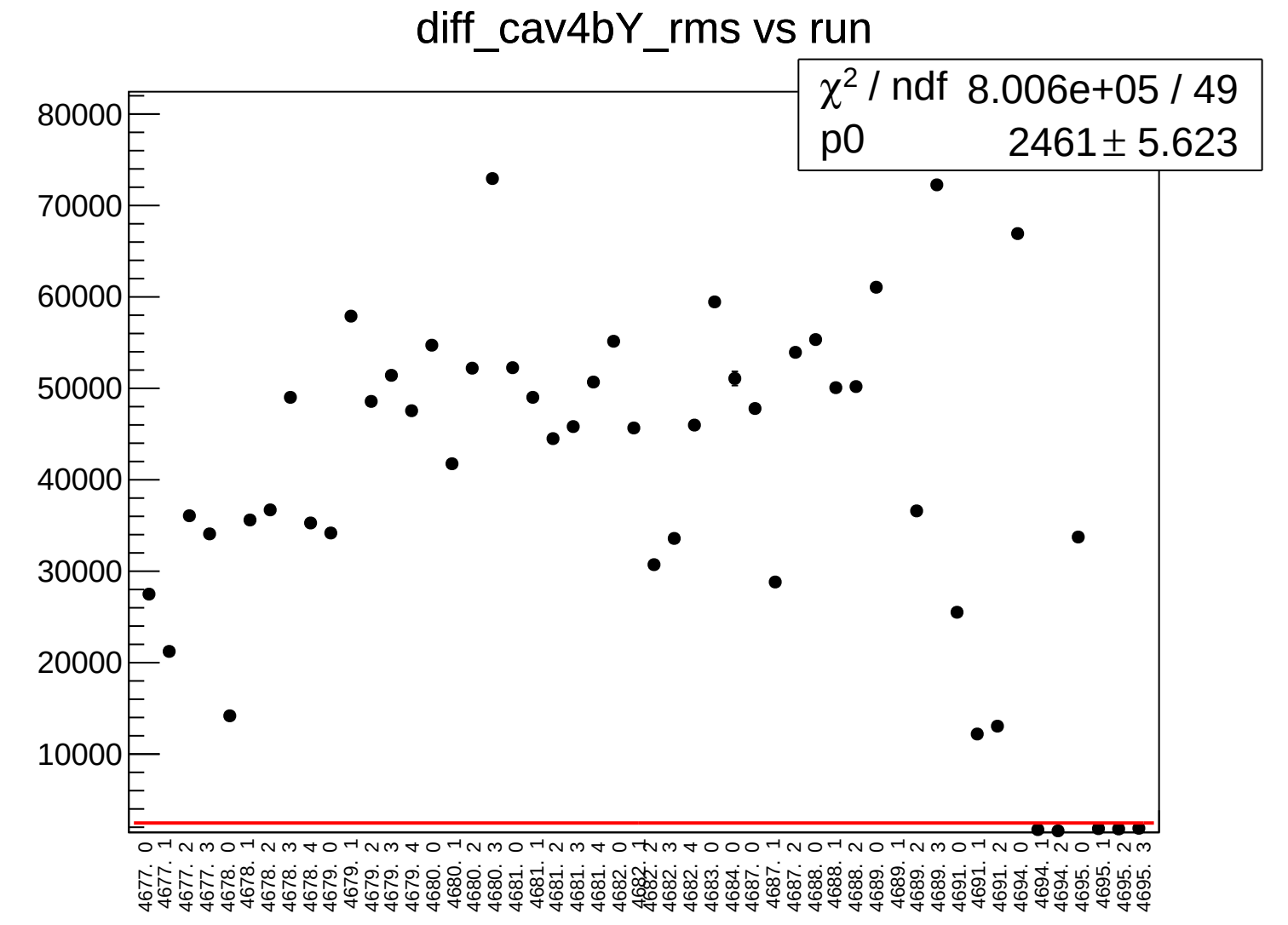

diff_cav4bX_mean vs run
χ² / ndf 50.11 / 49
p0 −12.82 ± 30.44
6000
4000
2000
0
−2000
−4000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean −884
Std Dev 908.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2

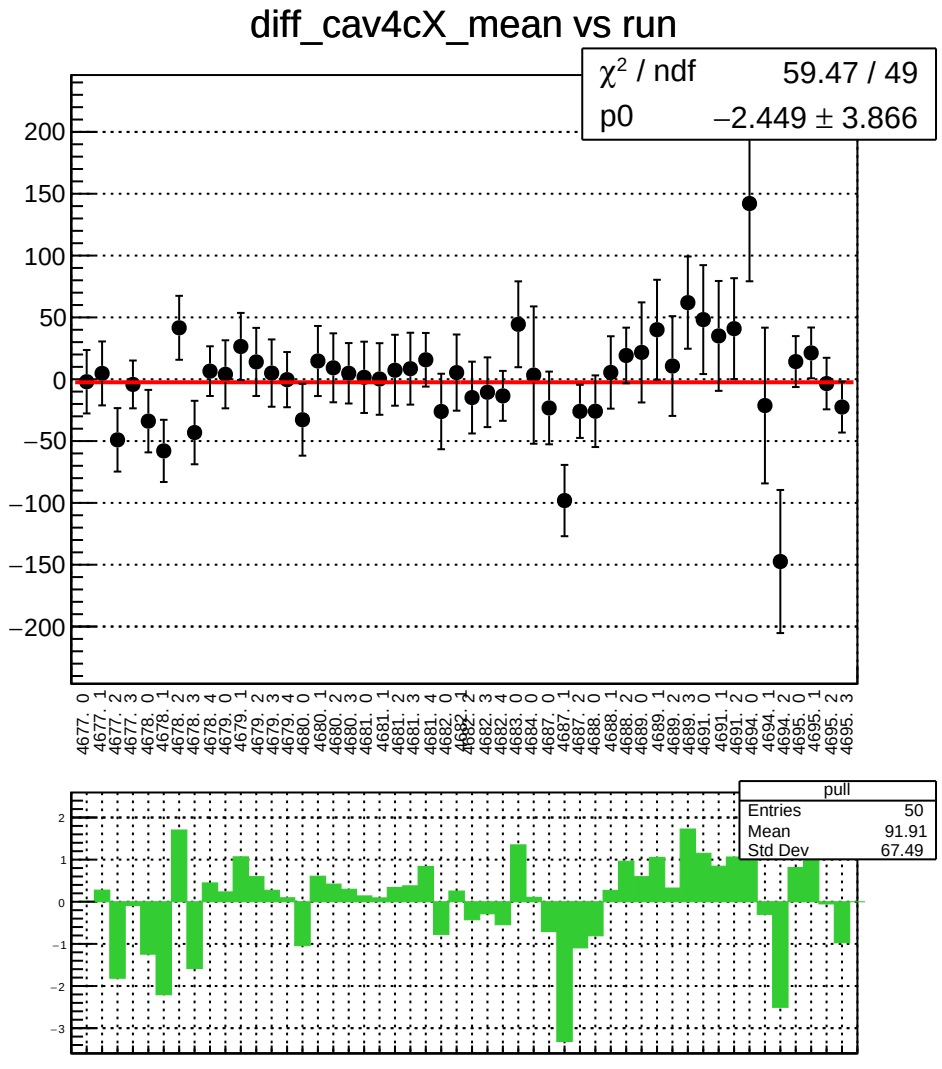

pull1D
Entries 50
Mean −0.003049
Std Dev 1.001
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

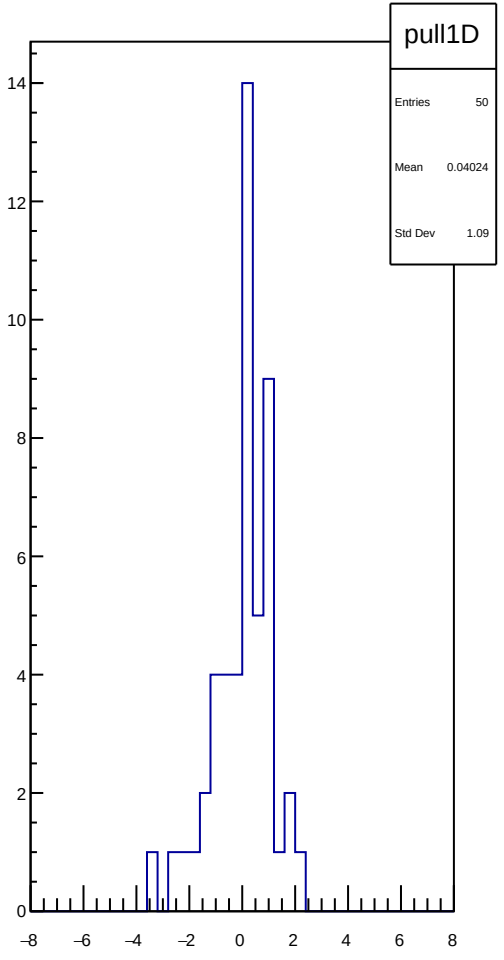

diff_cav4bX_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 8.412e+05 / 49
p0 8360 ± 21.52
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

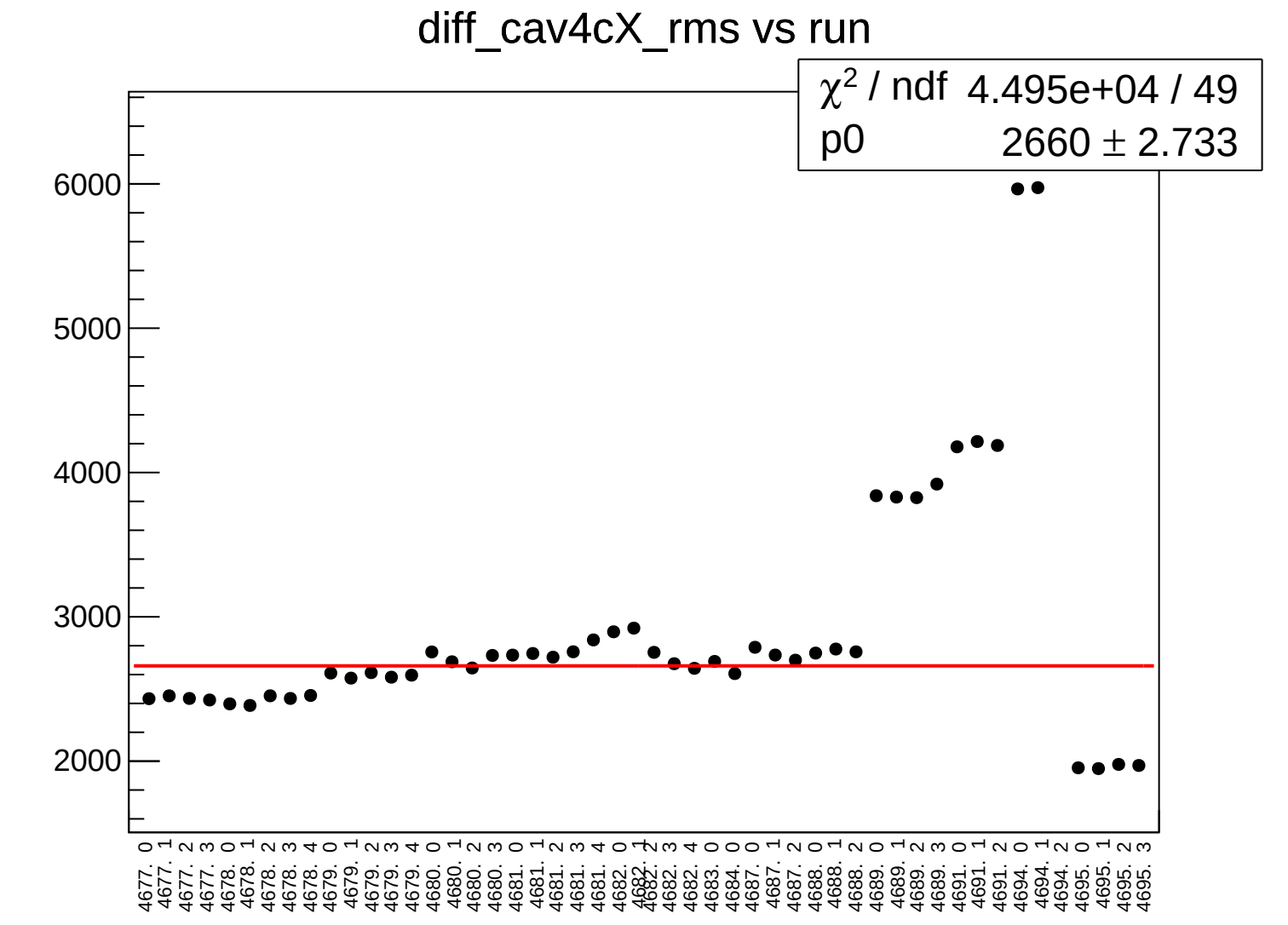

diff_cav4bY_mean vs run
χ² / ndf 57.1 / 49
p0 −3.877 ± 7.952
pull
Entries 50
Mean 96.45
Std Dev 72.14

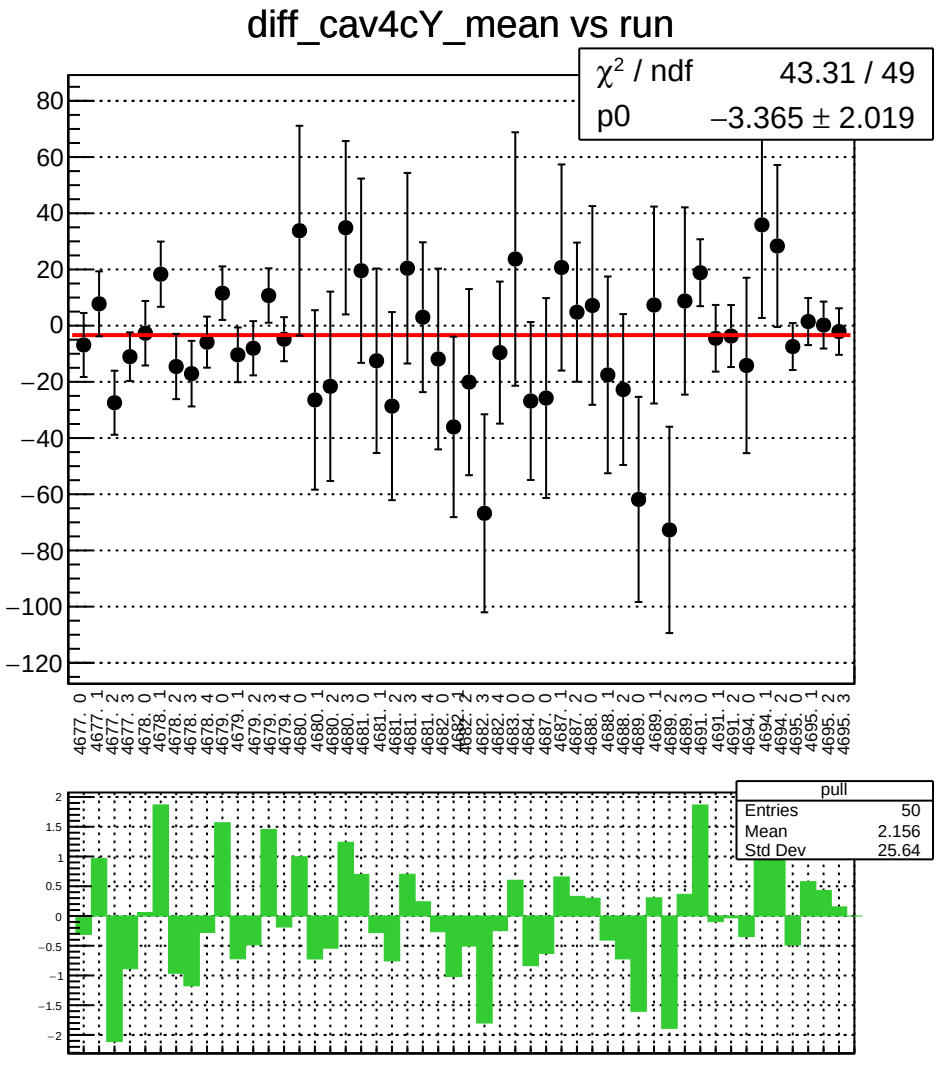

pull1D
Entries 50
Mean −0.03196
Std Dev 1.068

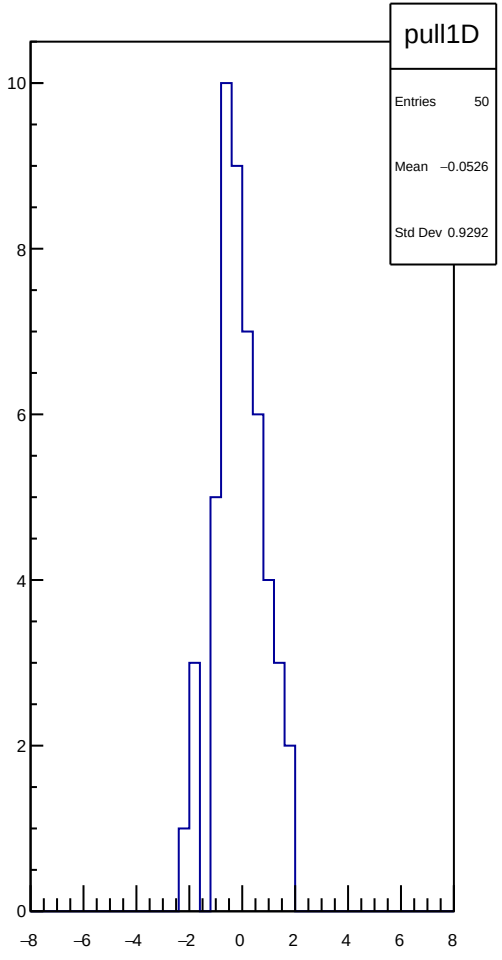

diff_cav4bY_rms vs run
χ² / ndf 8.006e+05 / 49
p0 2461 ± 5.623
80000
70000
60000
50000
40000
30000
20000
10000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

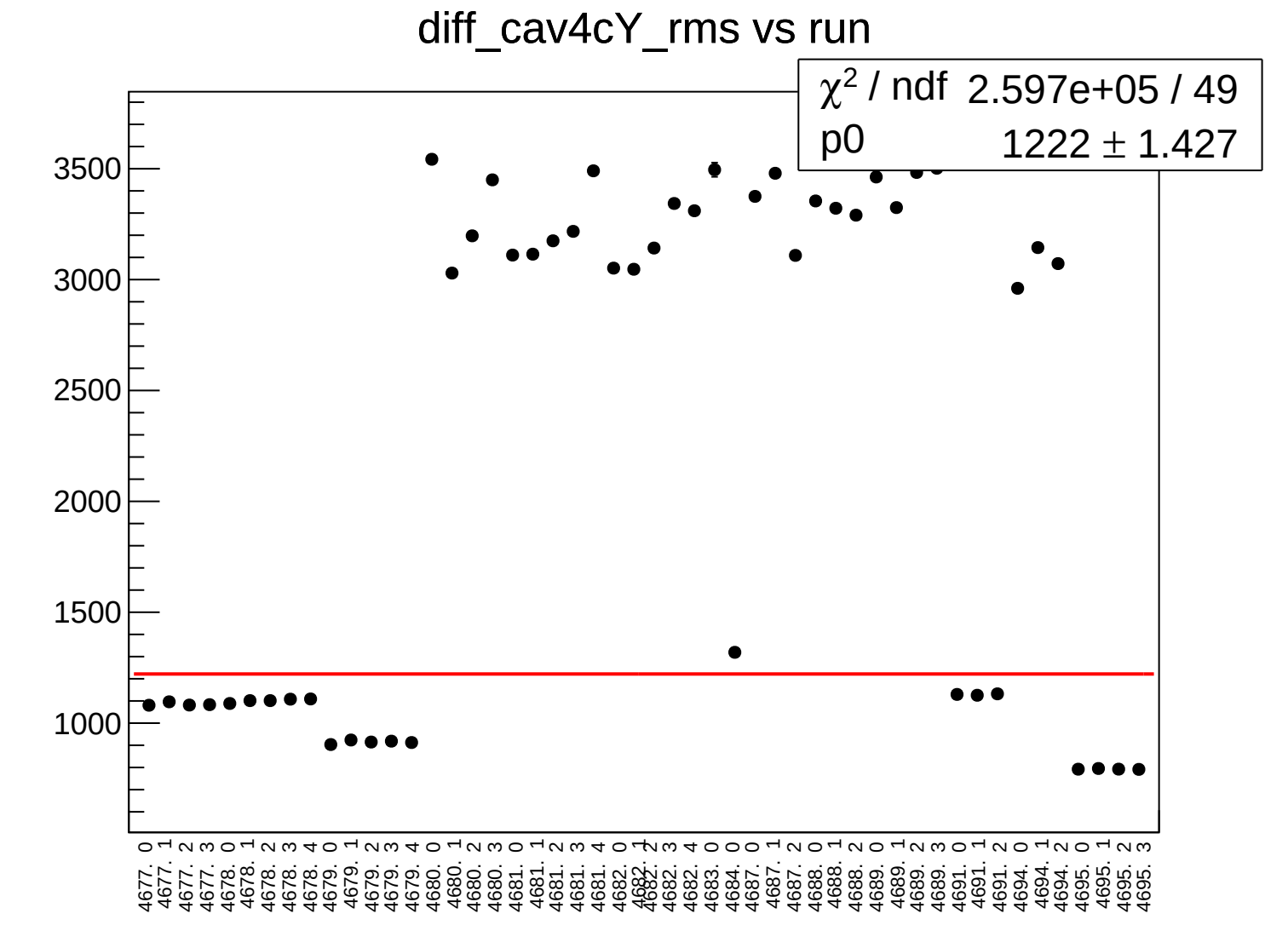

diff_cav4cX_mean vs run
χ^2 / ndf 59.47 / 49
p0 −2.449 ± 3.866
pull
Entries 50
Mean 91.91
Std Dev 67.49


pull1D
Entries 50
Mean 0.04024
Std Dev 1.09


diff_cav4cX_rms vs run
χ² / ndf 4.495e+04 / 49
p0 2660 ± 2.733
6000
5000
4000
3000
2000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


diff_cav4cY_mean vs run
χ² / ndf 43.31 / 49
p0 −3.365 ± 2.019
pull
Entries 50
Mean 2.156
Std Dev 25.64


pull1D
Entries 50
Mean −0.0526
Std Dev 0.9292


diff_cav4cY_rms vs run
χ² / ndf 2.597e+05 / 49
p0 1222 ± 1.427
3500
3000
2500
2000
1500
1000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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4694. 0
4694. 1
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4695. 0
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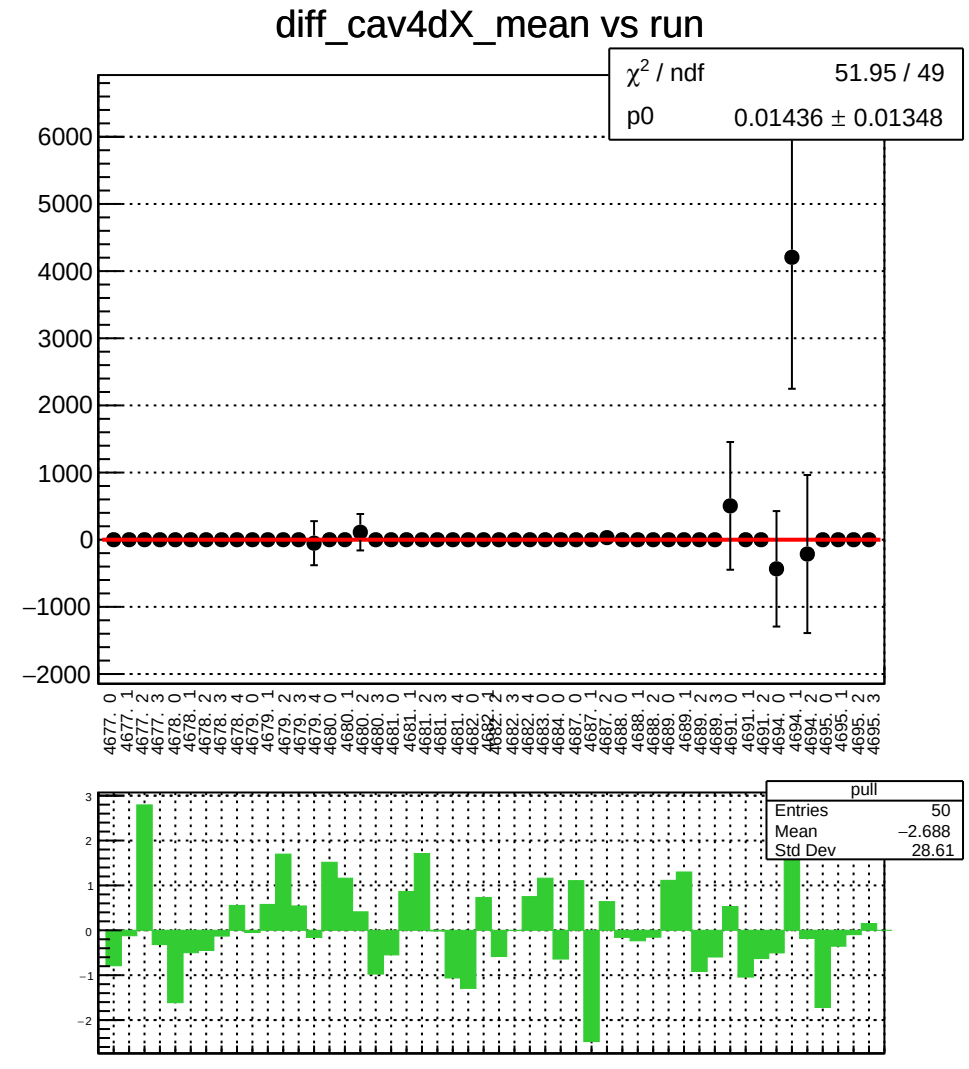
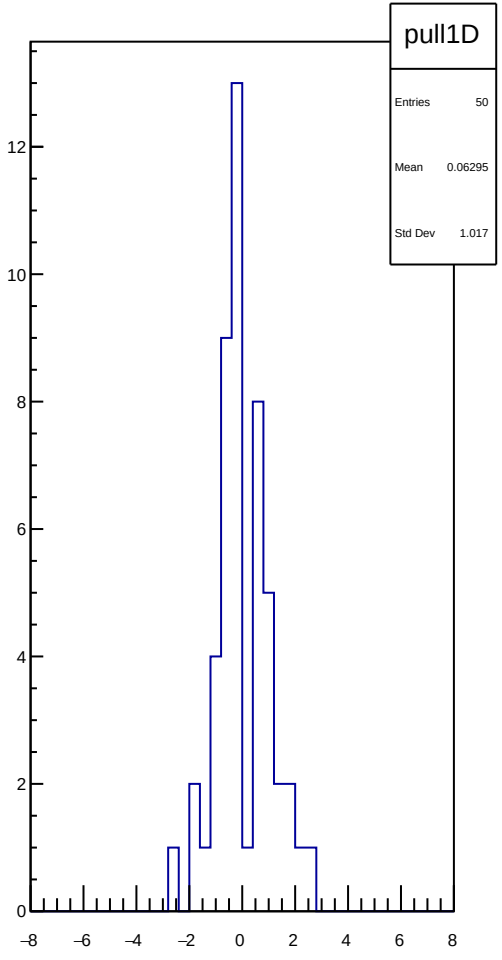
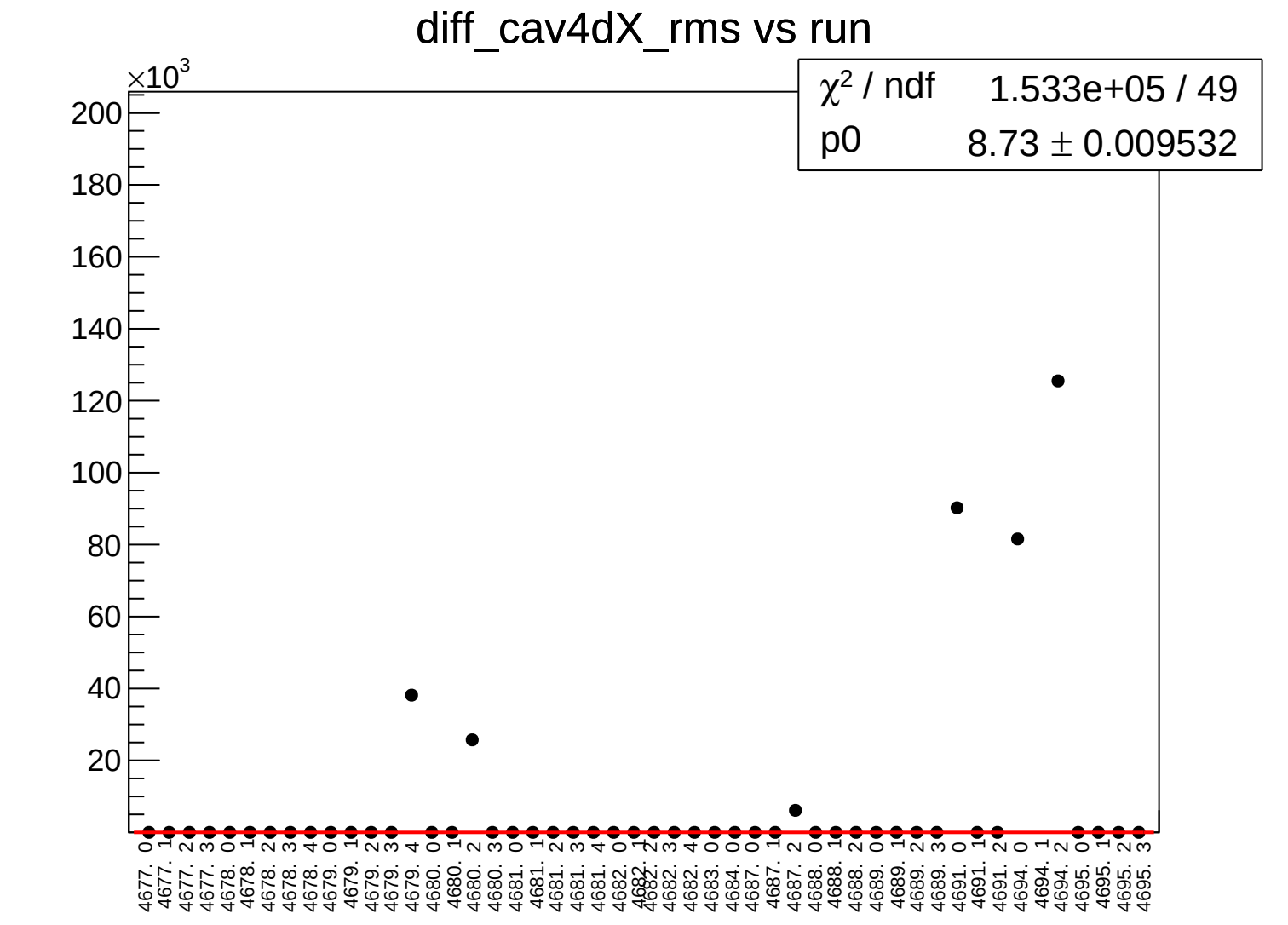
4695. 2
4695. 3


diff_cav4dX_mean vs run
χ² / ndf 51.95 / 49
p0 0.01436 ± 0.01348
pull
Entries 50
Mean −2.688
Std Dev 28.61


pull1D
Entries 50
Mean 0.06295
Std Dev 1.017


diff_cav4dX_rms vs run
×10^3
χ² / ndf 1.533e+05 / 49
p0 8.73 ± 0.009532
200
180
160
140
120
100
80
60
40
20
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4694. 2
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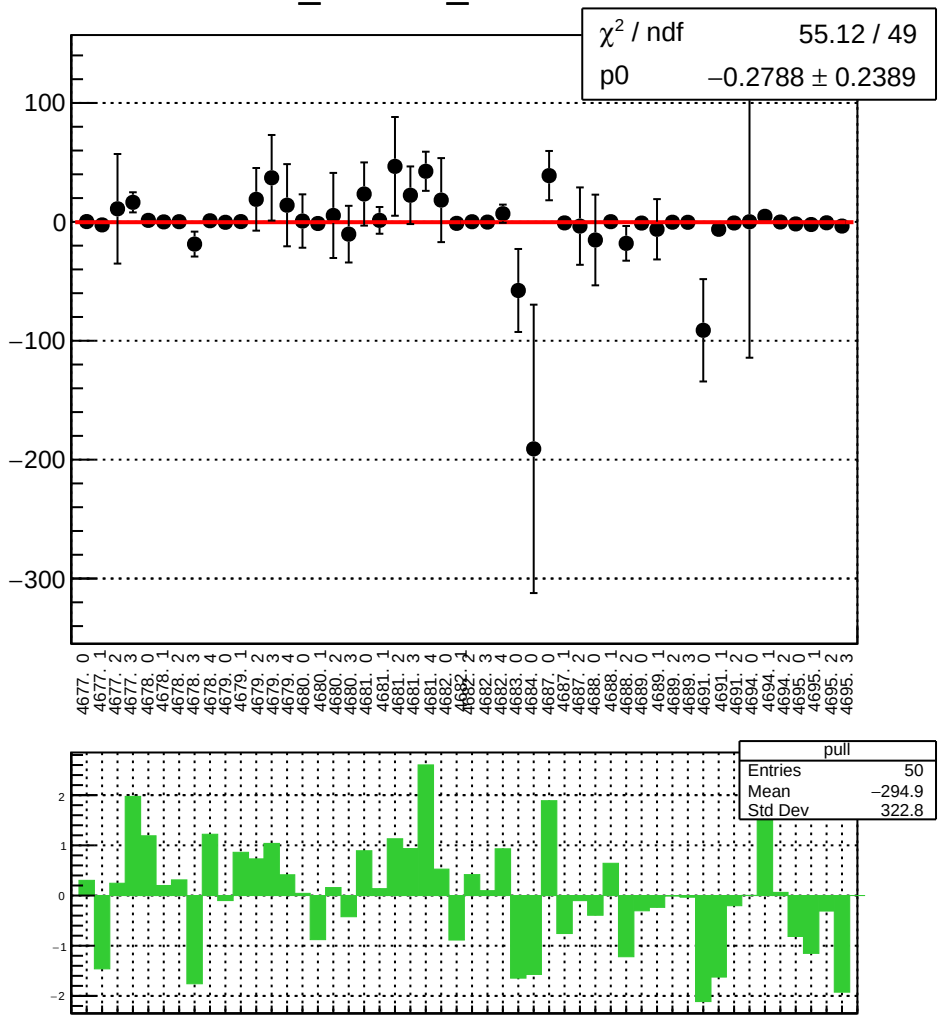
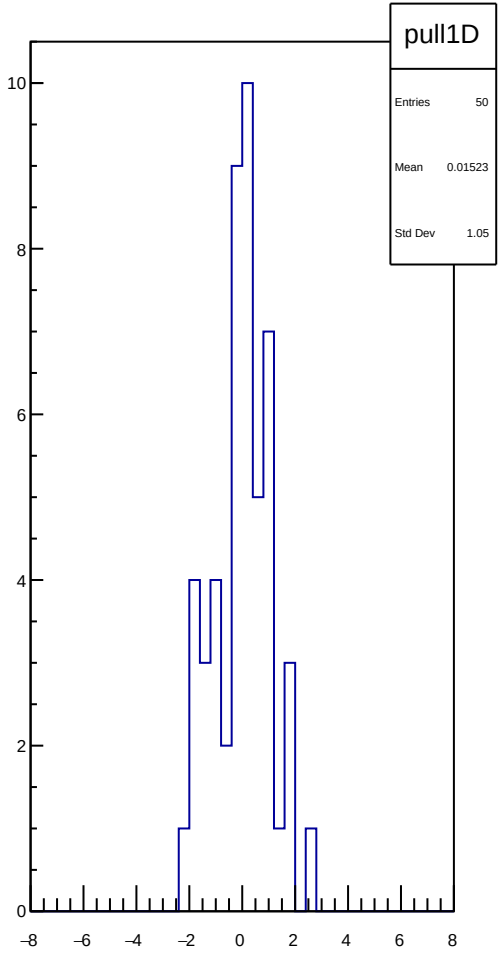
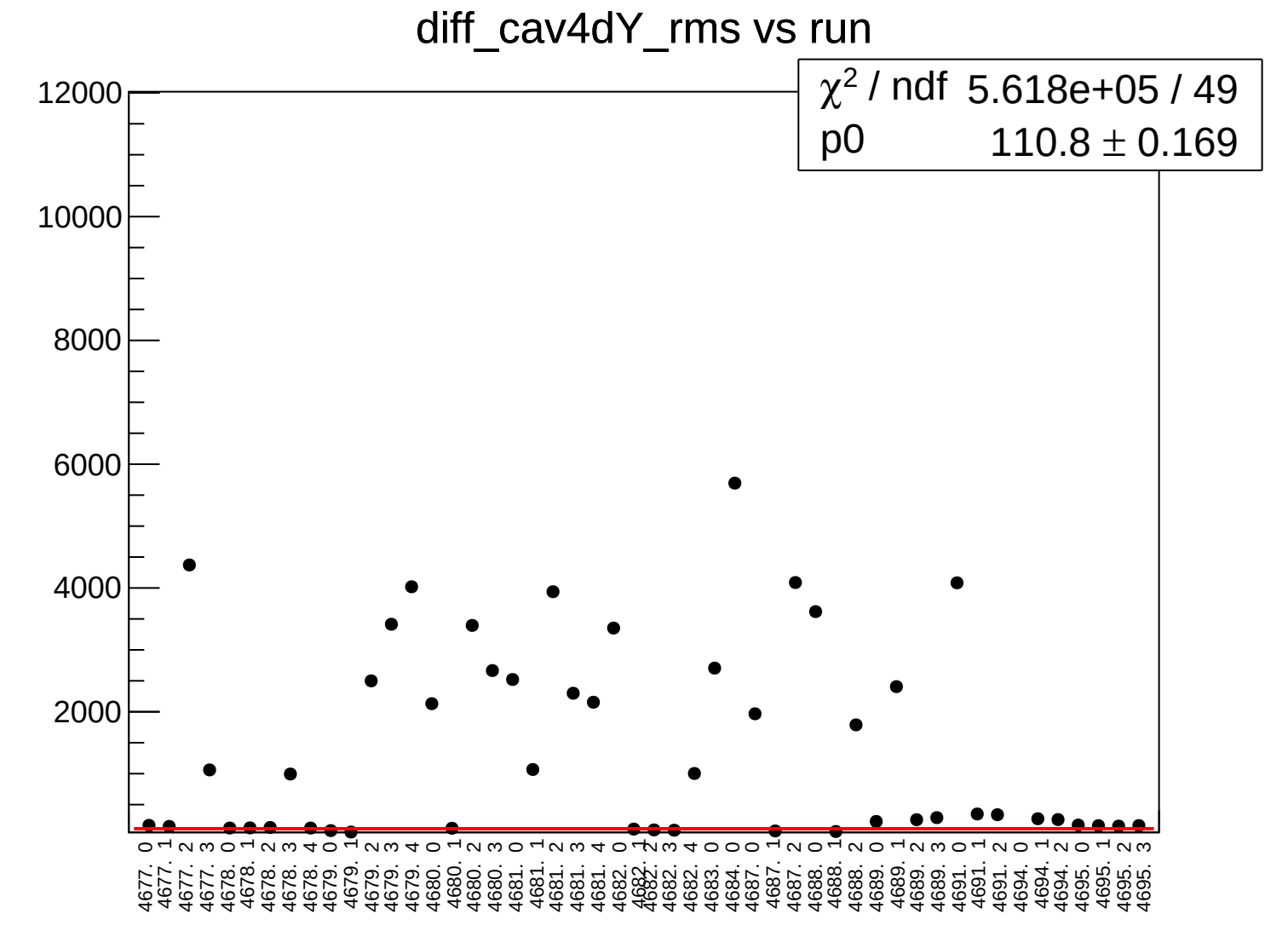
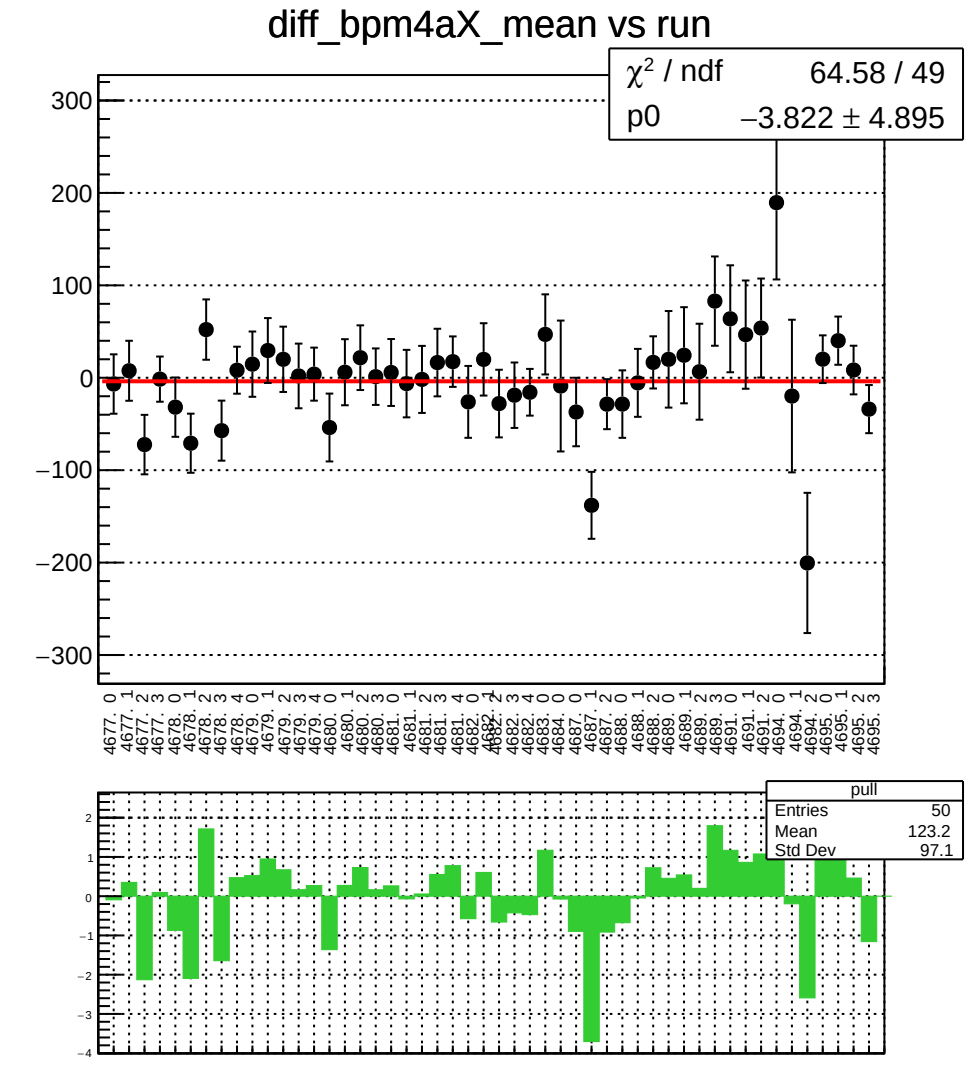
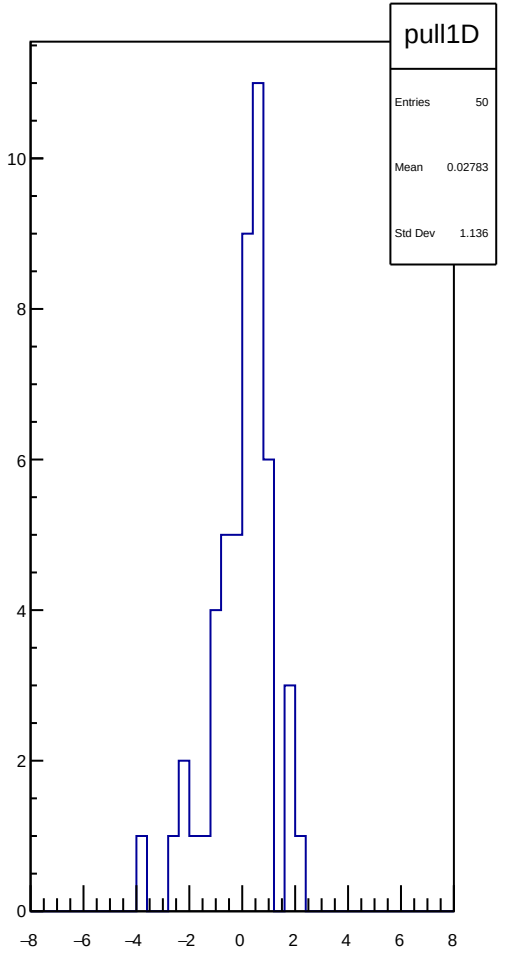
4695. 2
4695. 3

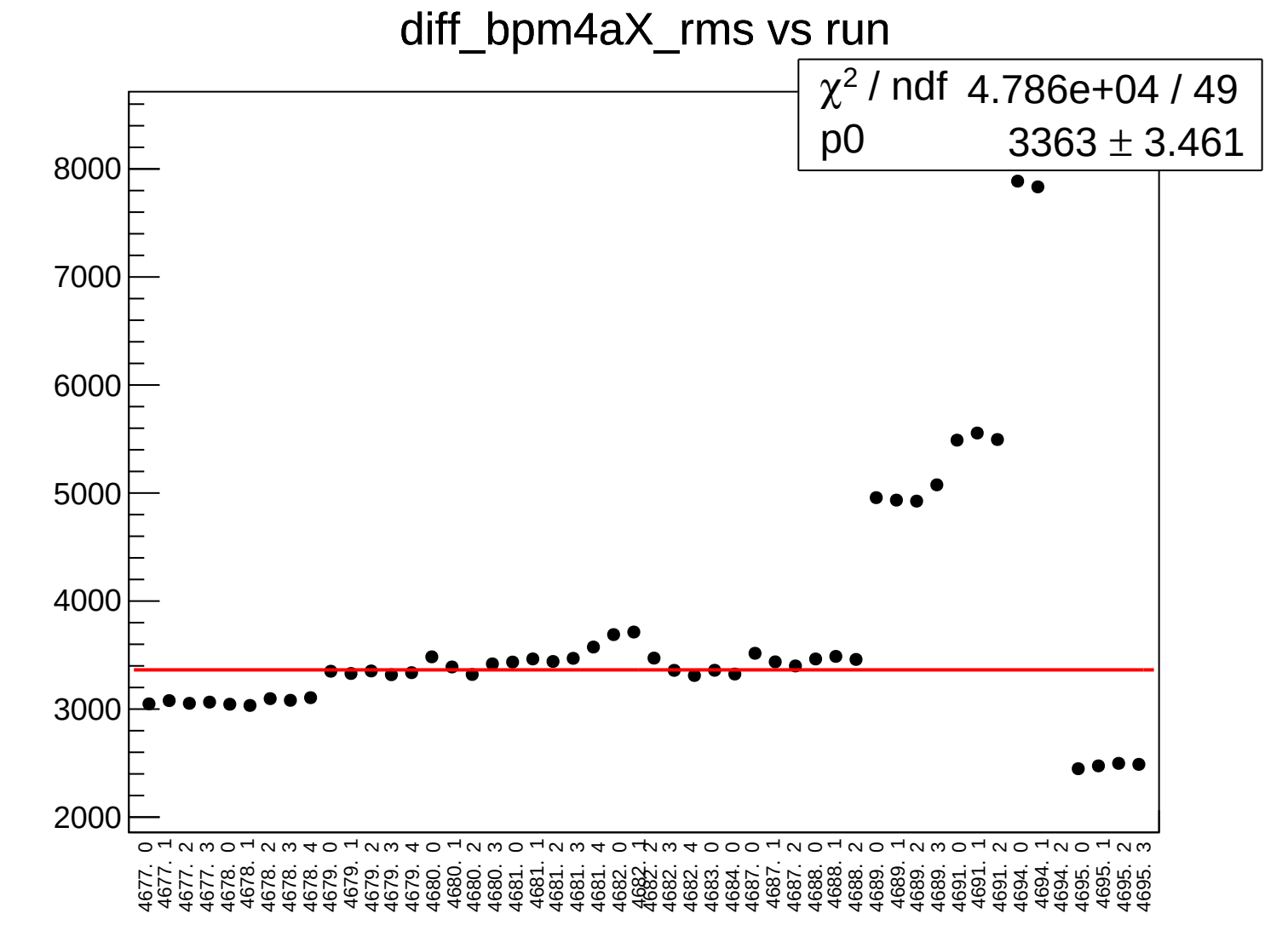

diff_cav4dY_mean vs run
χ² / ndf 55.12 / 49
p0 −0.2788 ± 0.2389
100
0
−100
−200
−300
pull
Entries 50
Mean −294.9
Std Dev 322.8
2
1
0
−1
−2


pull1D
Entries 50
Mean 0.01523
Std Dev 1.05
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_cav4dY_rms vs run
χ² / ndf 5.618e+05 / 49
p0 110.8 ± 0.169
12000
10000
8000
6000
4000
2000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


diff_bpm4aX_mean vs run
χ² / ndf 64.58 / 49
p0 −3.822 ± 4.895
pull
Entries 50
Mean 123.2
Std Dev 97.1


pull1D
Entries 50
Mean 0.02783
Std Dev 1.136


diff_bpm4aX_rms vs run
χ² / ndf 4.786e+04 / 49
p0 3363 ± 3.461
8000
7000
6000
5000
4000
3000
2000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
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4680. 3
4681. 0
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4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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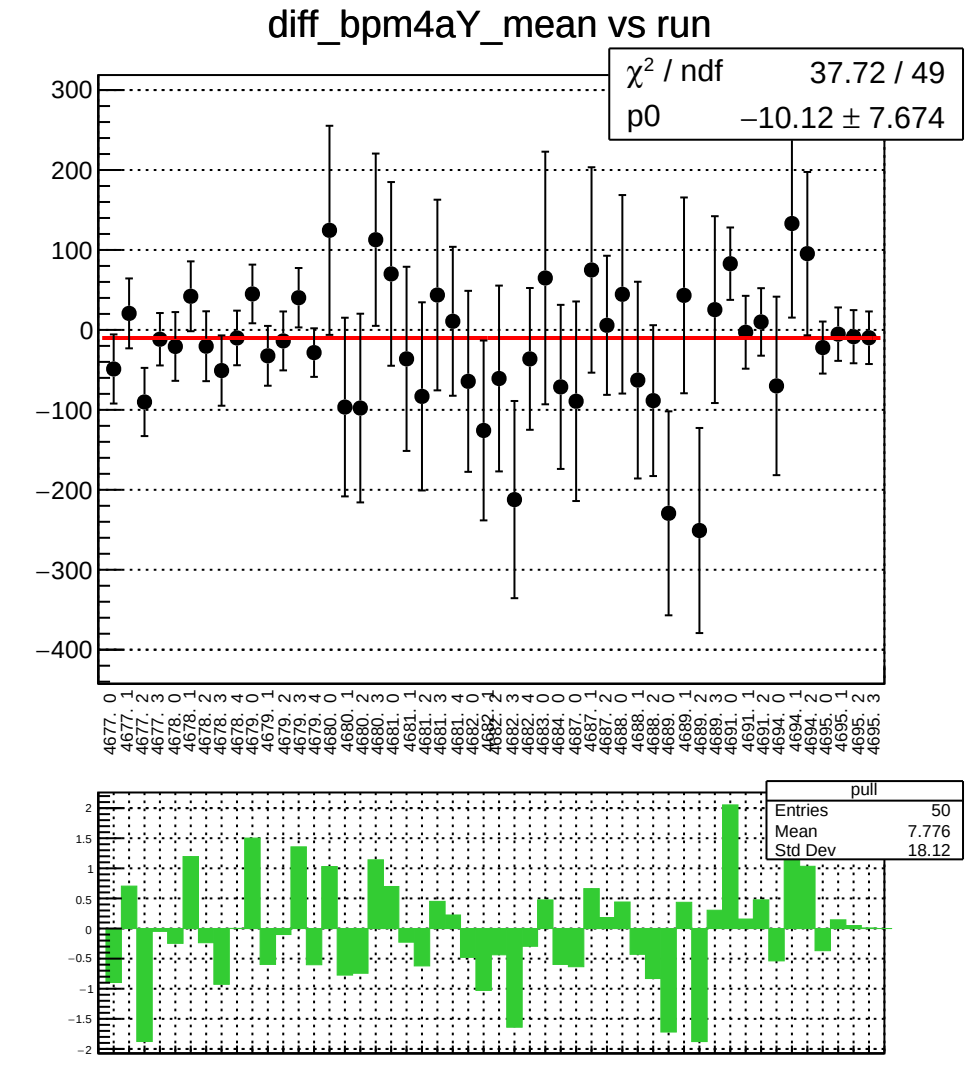
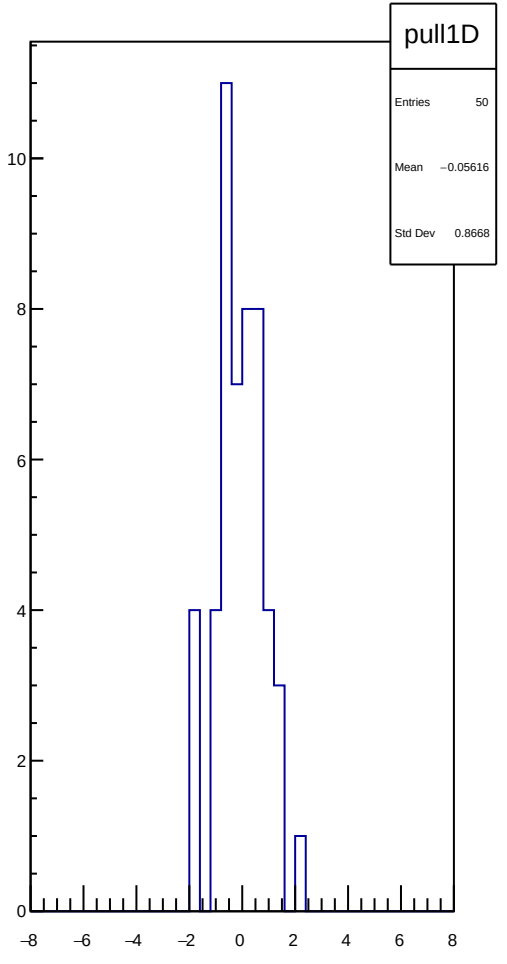
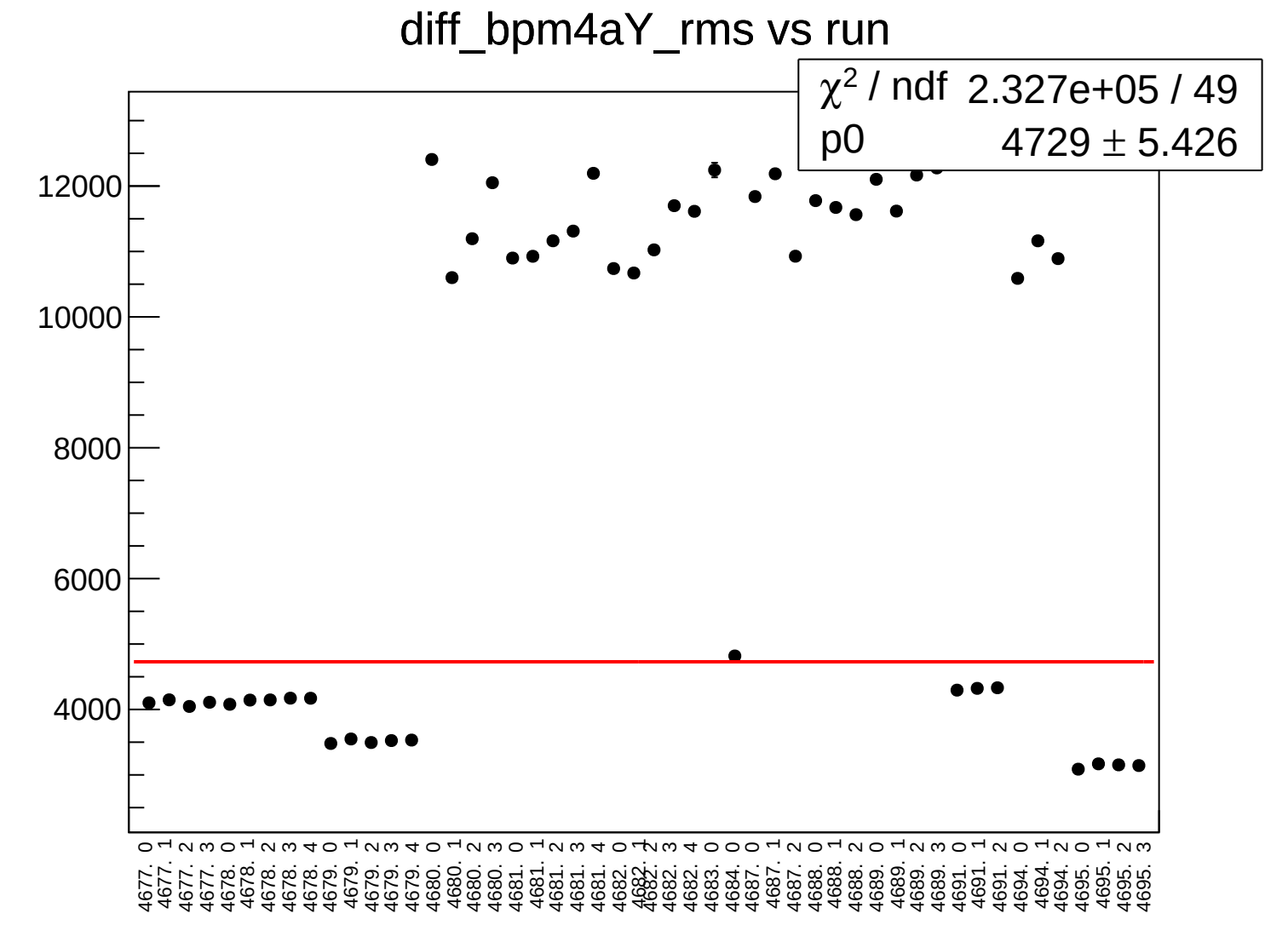
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


diff_bpm4aY_mean vs run
χ² / ndf 37.72 / 49
p0 −10.12 ± 7.674
pull
Entries 50
Mean 7.776
Std Dev 18.12


pull1D
Entries 50
Mean −0.05616
Std Dev 0.8668


diff_bpm4aY_rms vs run
χ² / ndf 2.327e+05 / 49
p0 4729 ± 5.426
12000
10000
8000
6000
4000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
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4689. 1
4689. 2
4689. 3
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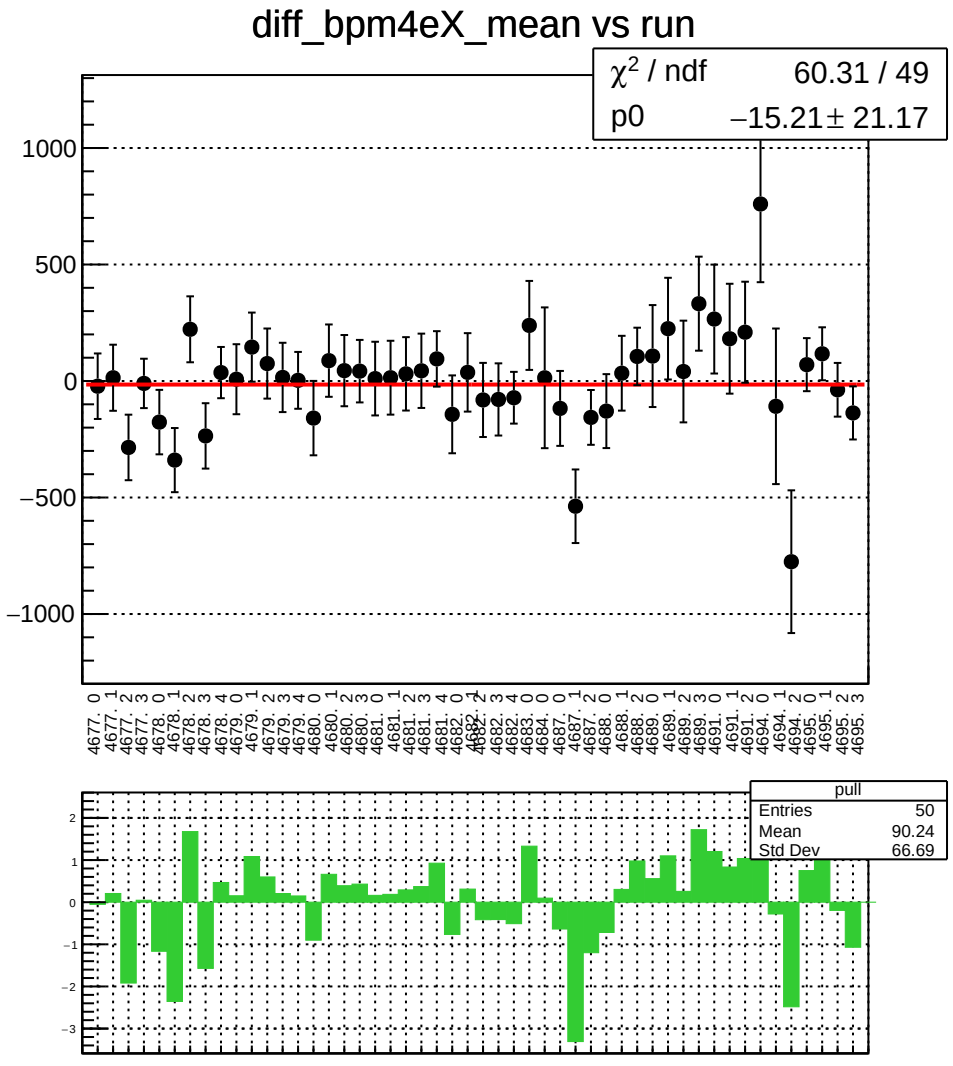
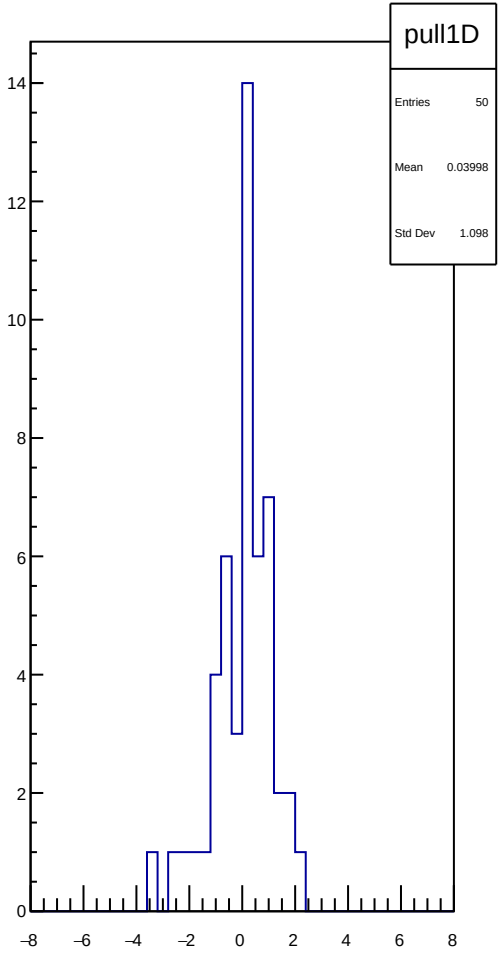
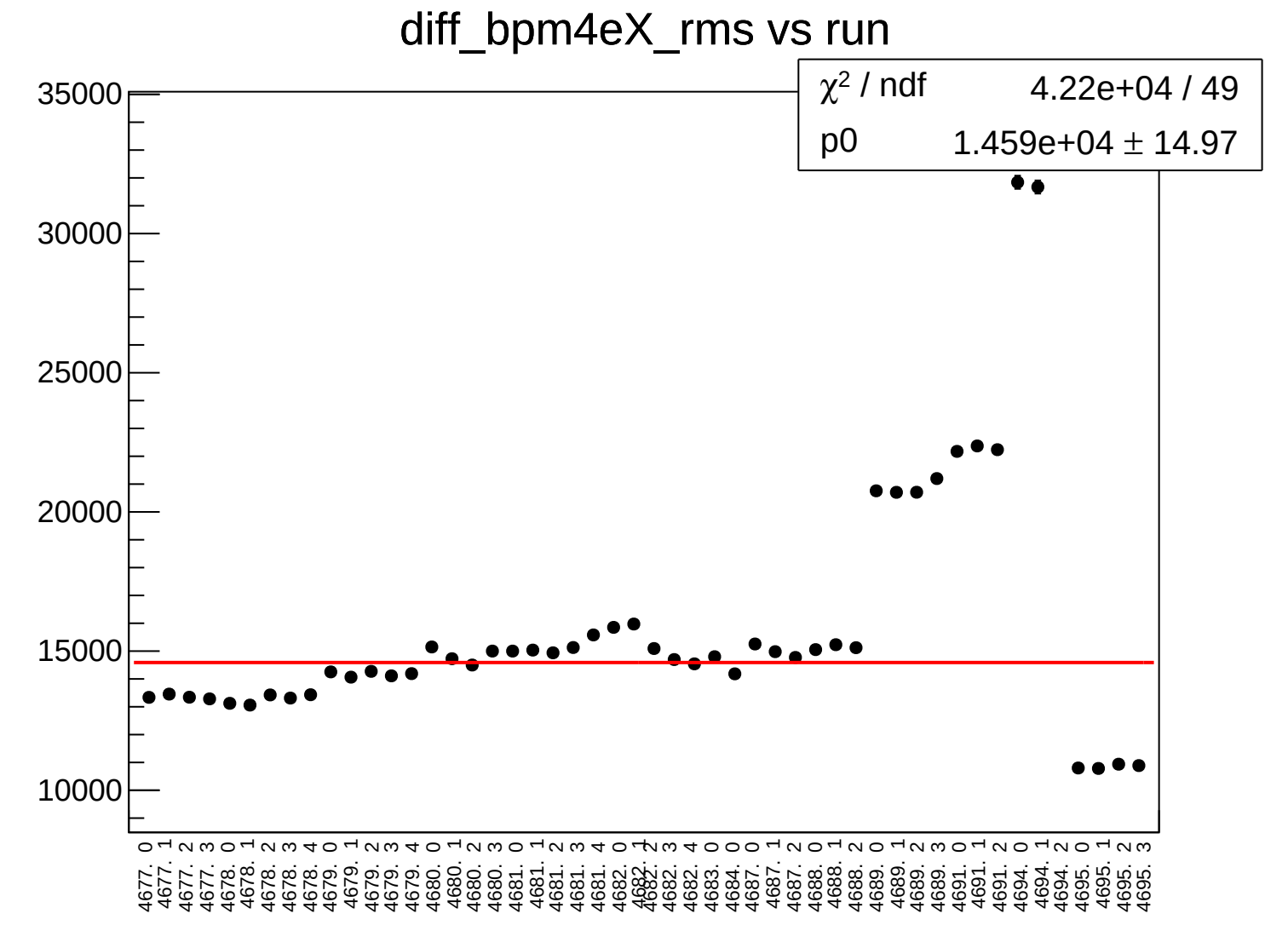
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


diff_bpm4eX_mean vs run
χ² / ndf 60.31 / 49
p0 −15.21± 21.17
1000
500
0
−500
−1000
pull
Entries 50
Mean 90.24
Std Dev 66.69
2
1
0
−1
−2
−3


pull1D
Entries 50
Mean 0.03998
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm4eX_rms vs run
χ² / ndf 4.22e+04 / 49
p0 1.459e+04 ± 14.97
35000
30000
25000
20000
15000
10000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4691. 2
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4694. 2
4695. 0
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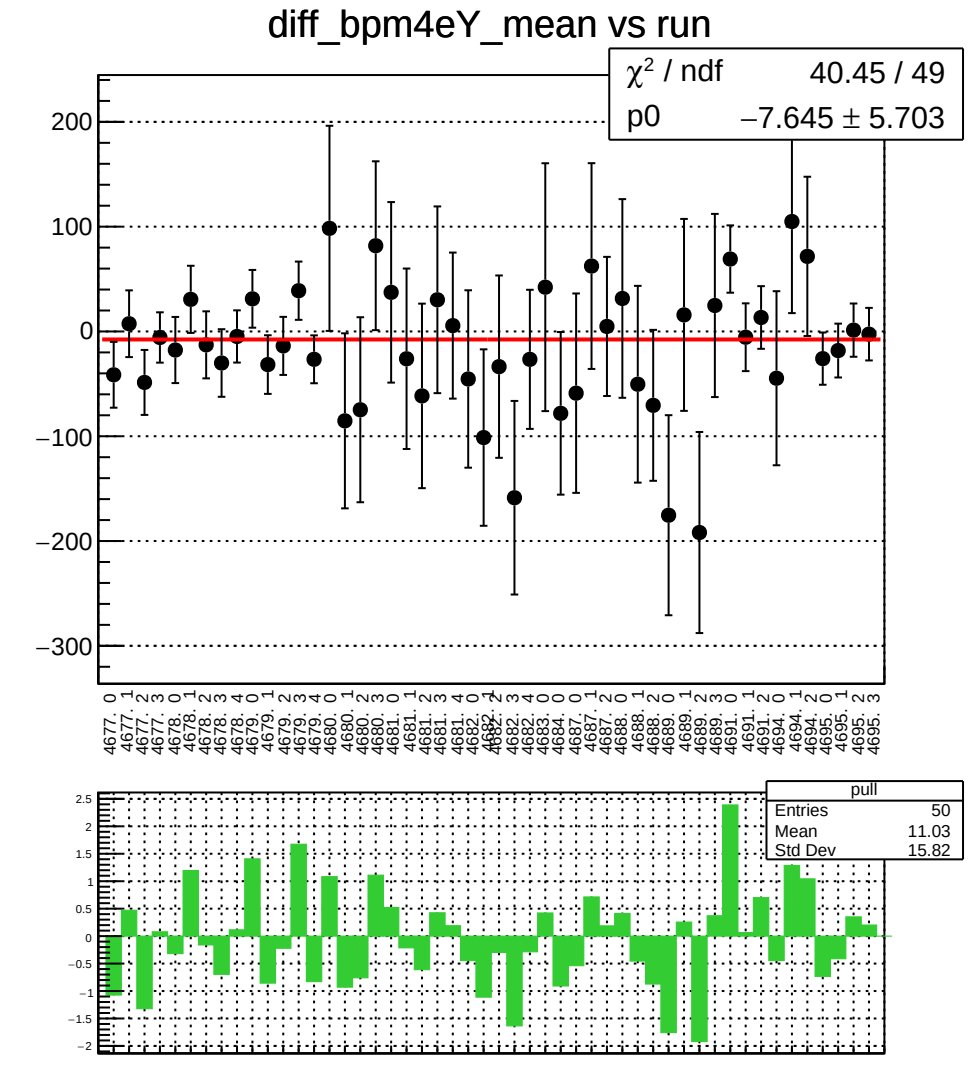
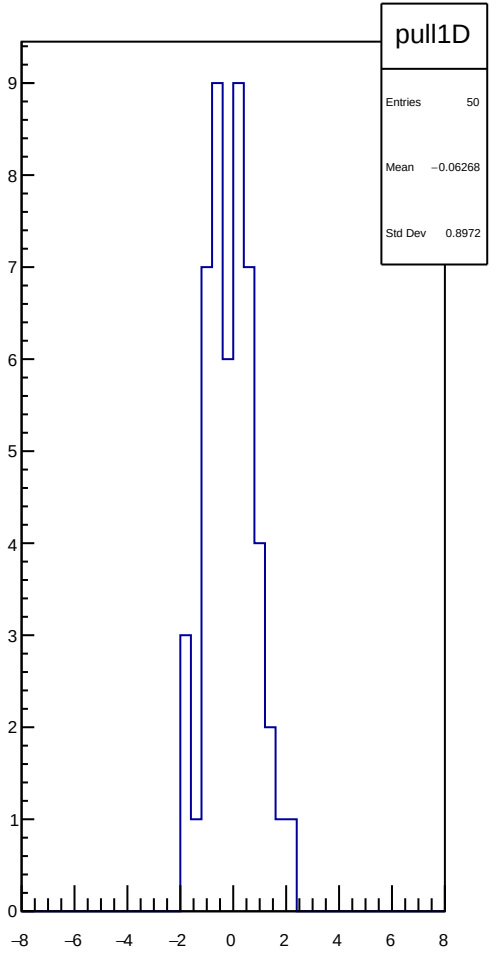
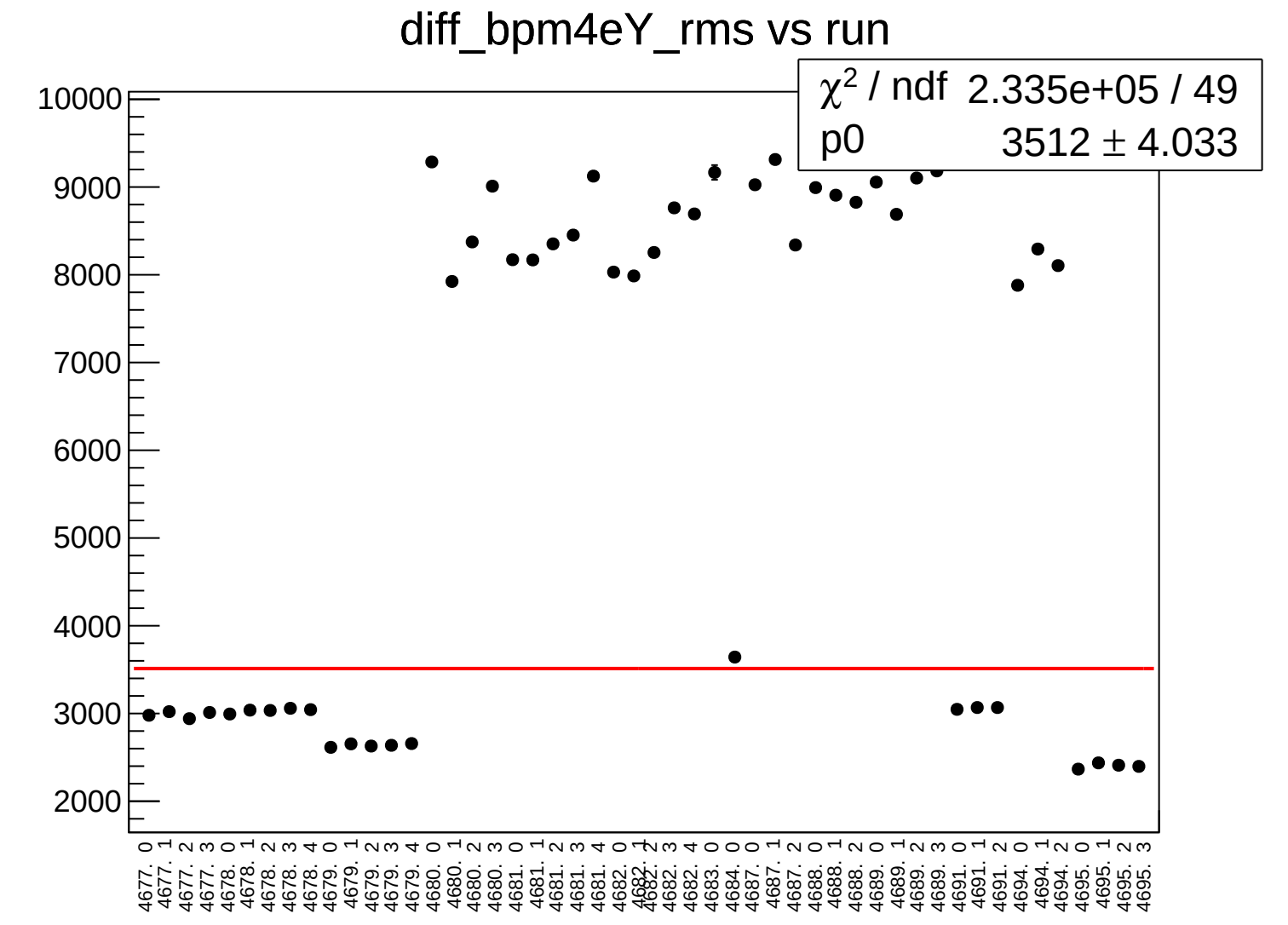
4695. 2
4695. 3


diff_bpm4eY_mean vs run
χ² / ndf 40.45 / 49
p0 −7.645 ± 5.703
200
100
0
−100
−200
−300
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 11.03
Std Dev 15.82
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean −0.06268
Std Dev 0.8972
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm4eY_rms vs run
χ² / ndf 2.335e+05 / 49
p0 3512 ± 4.033
10000
9000
8000
7000
6000
5000
4000
3000
2000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
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4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4691. 2
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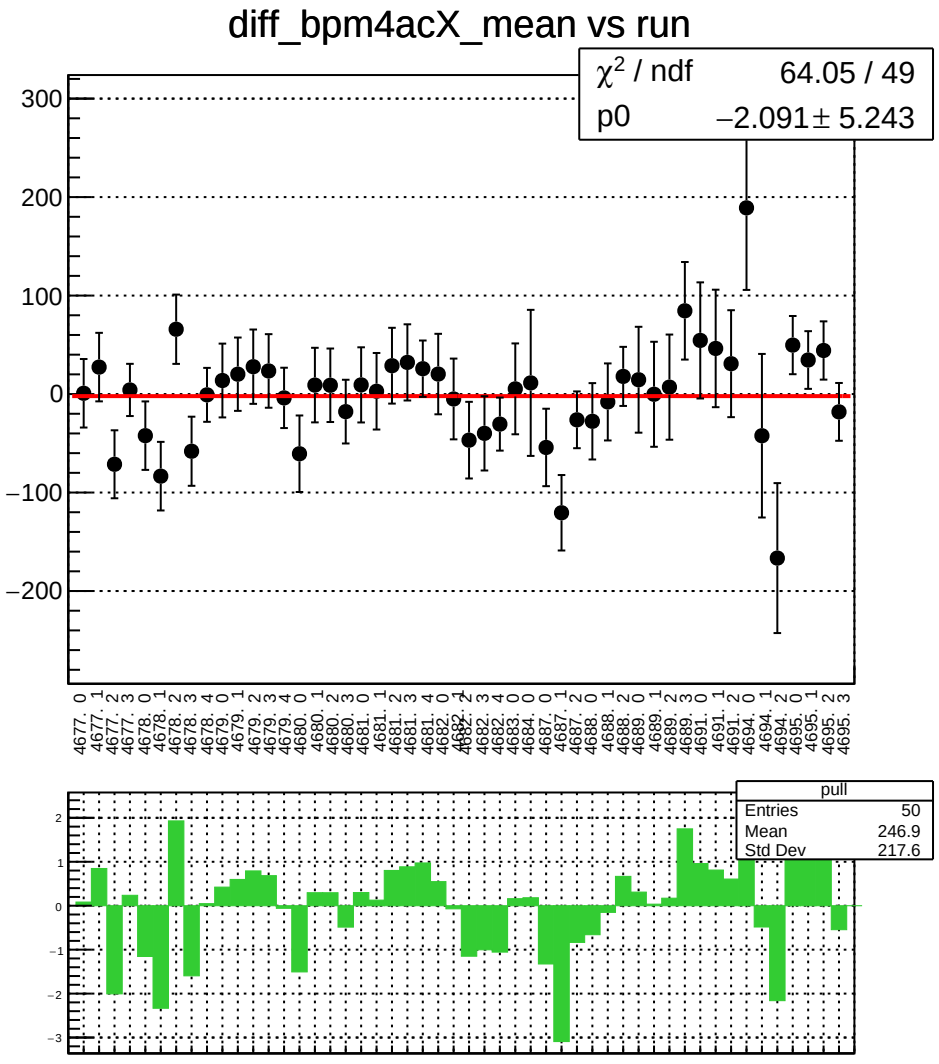
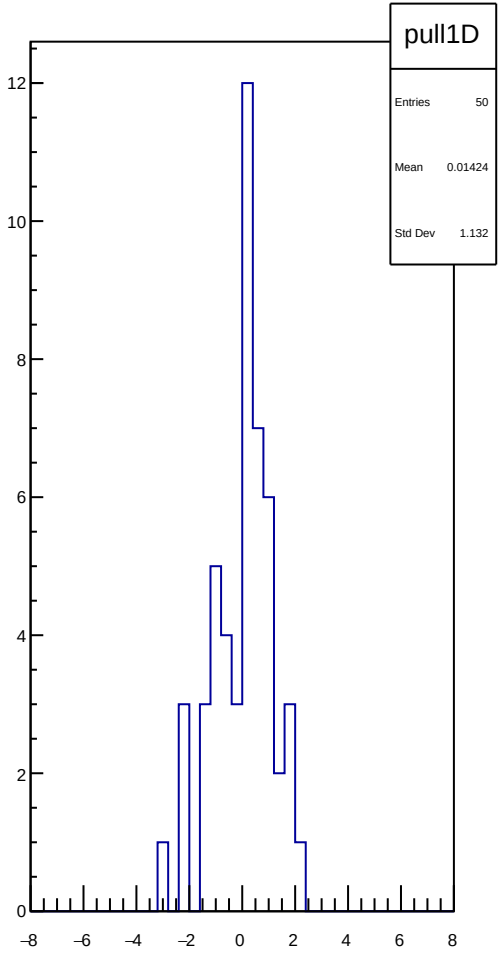
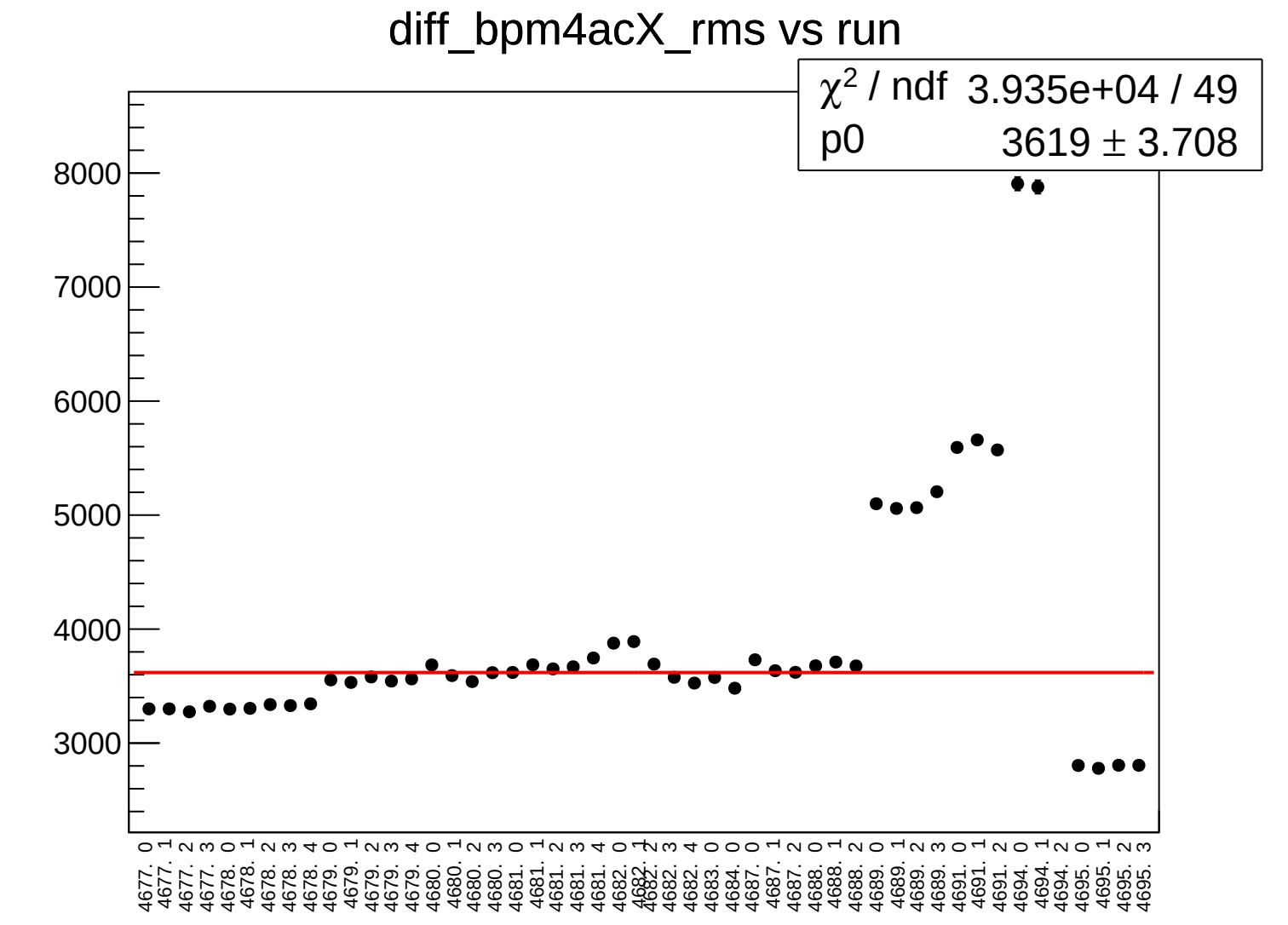
4695. 2
4695. 3


diff_bpm4acX_mean vs run
χ² / ndf 64.05 / 49
p0 −2.091 ± 5.243
pull
Entries 50
Mean 246.9
Std Dev 217.6


pull1D
Entries 50
Mean 0.01424
Std Dev 1.132


diff_bpm4acX_rms vs run
χ² / ndf 3.935e+04 / 49
p0 3619 ± 3.708
8000
7000
6000
5000
4000
3000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
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4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
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4687. 2
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4688. 2
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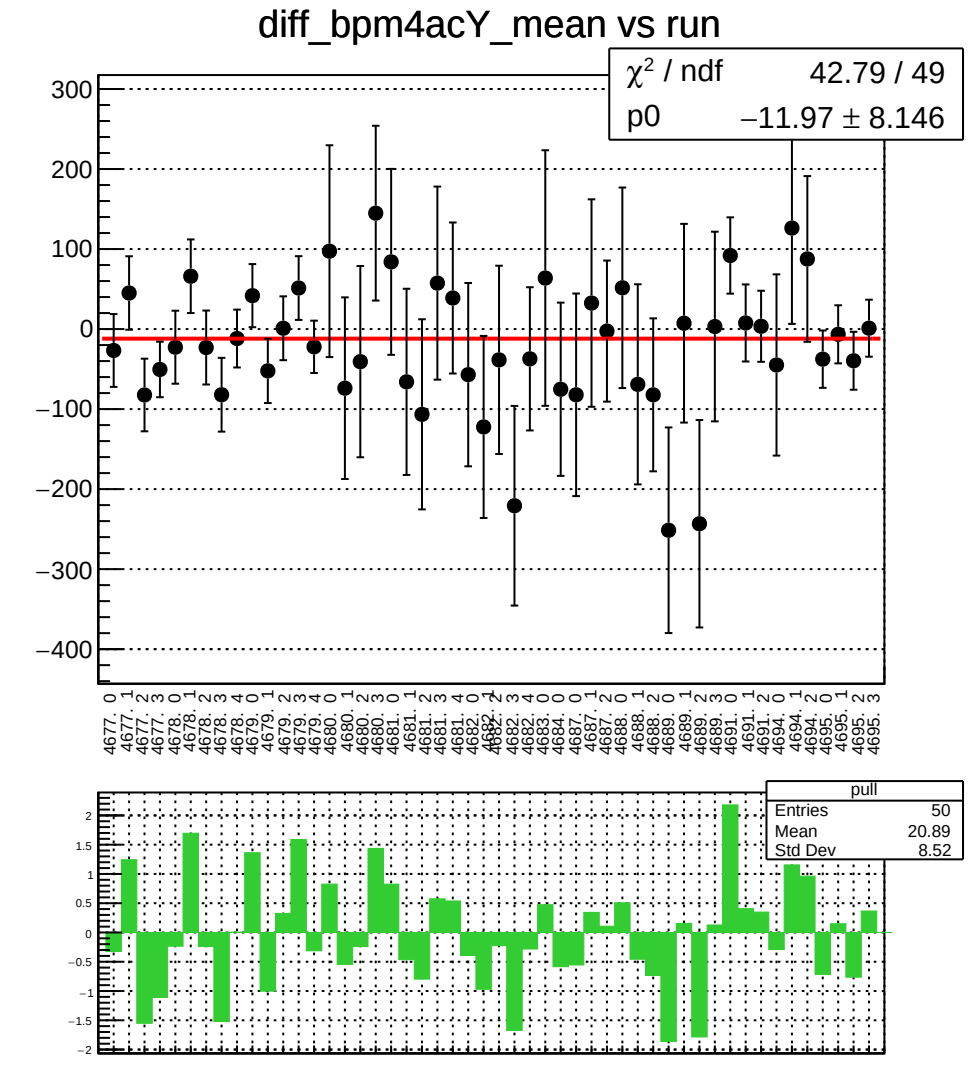
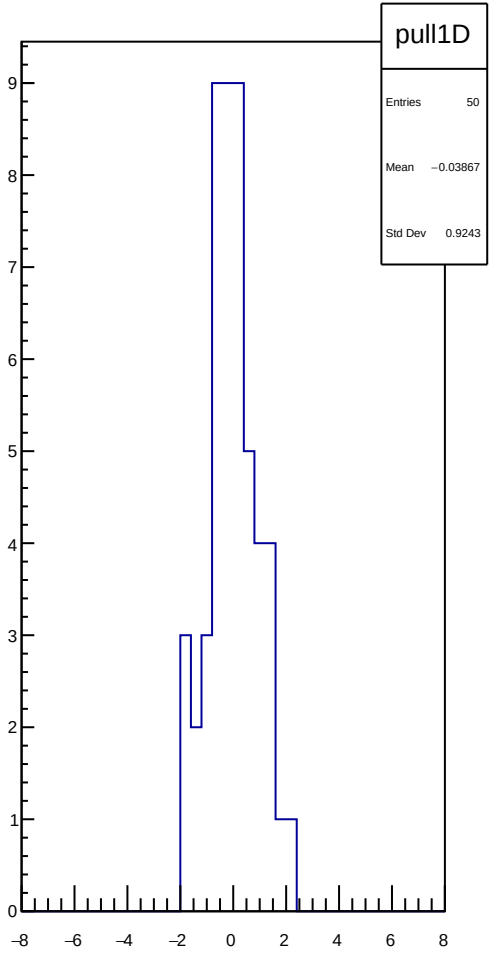
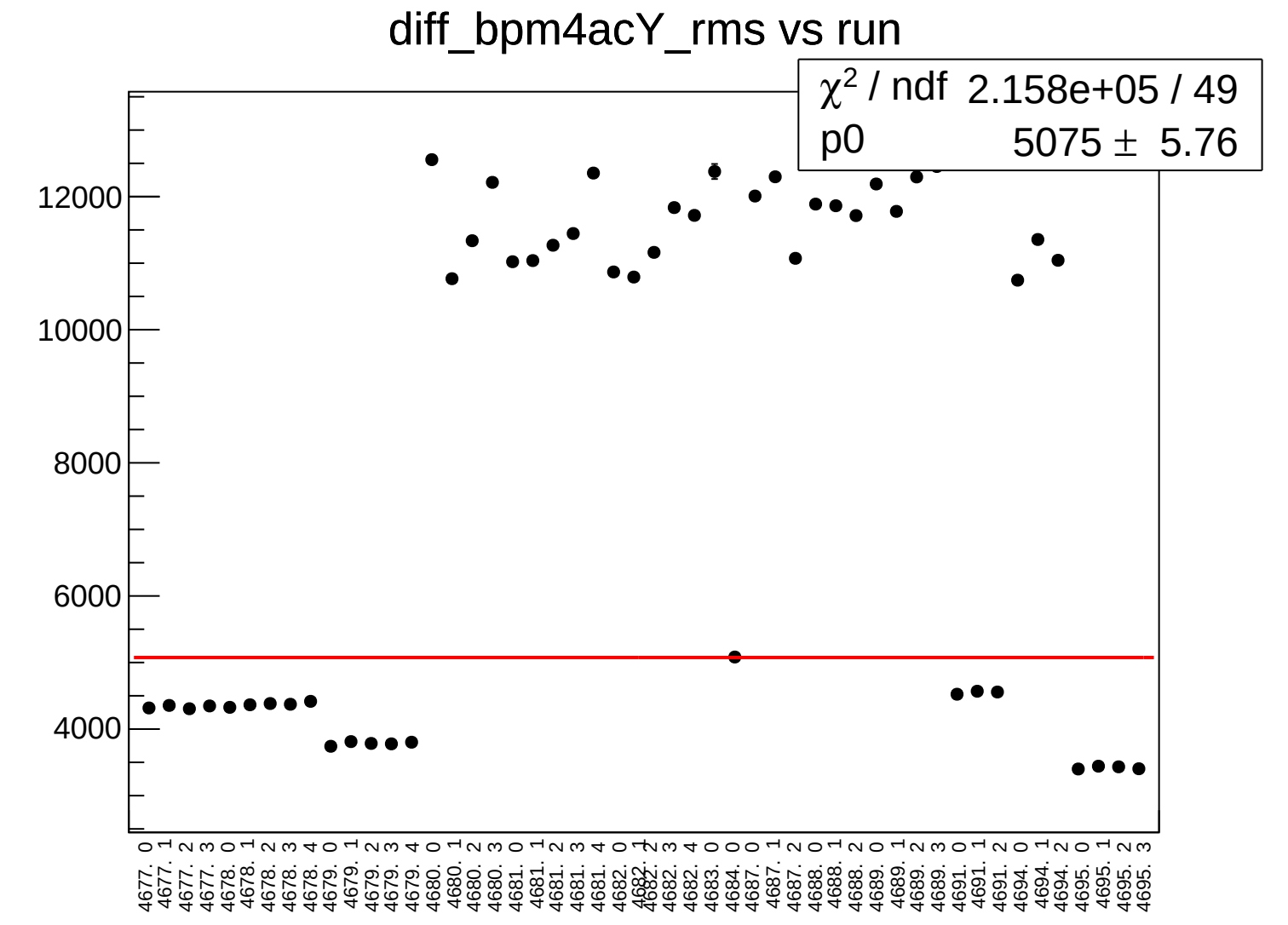
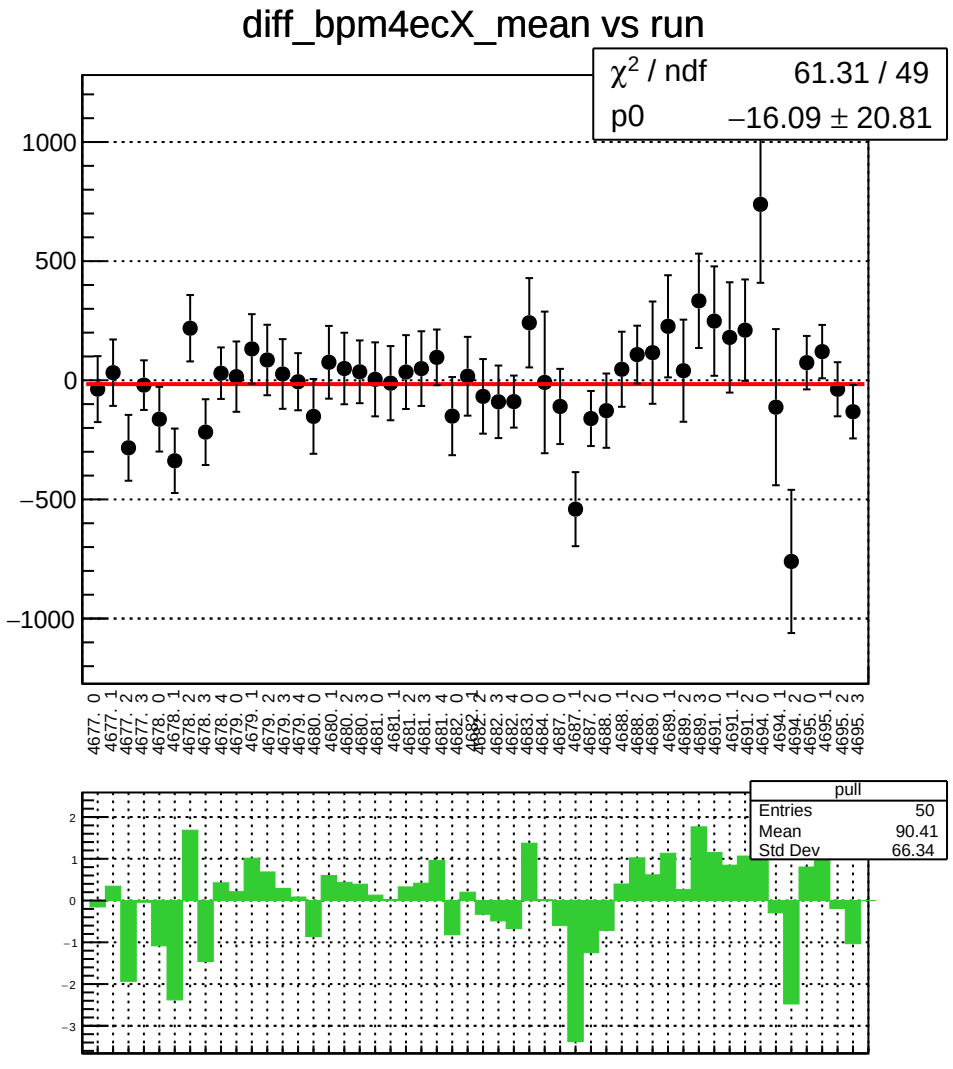
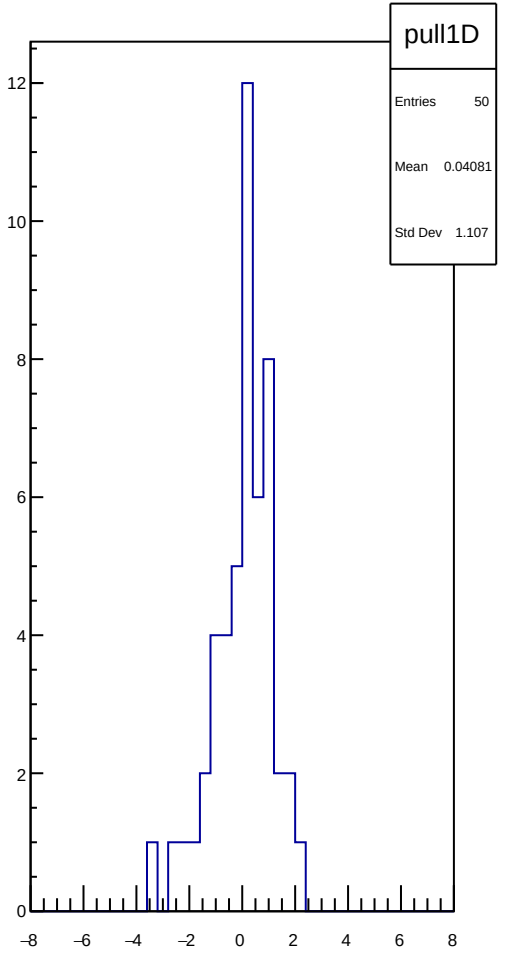
4695. 3

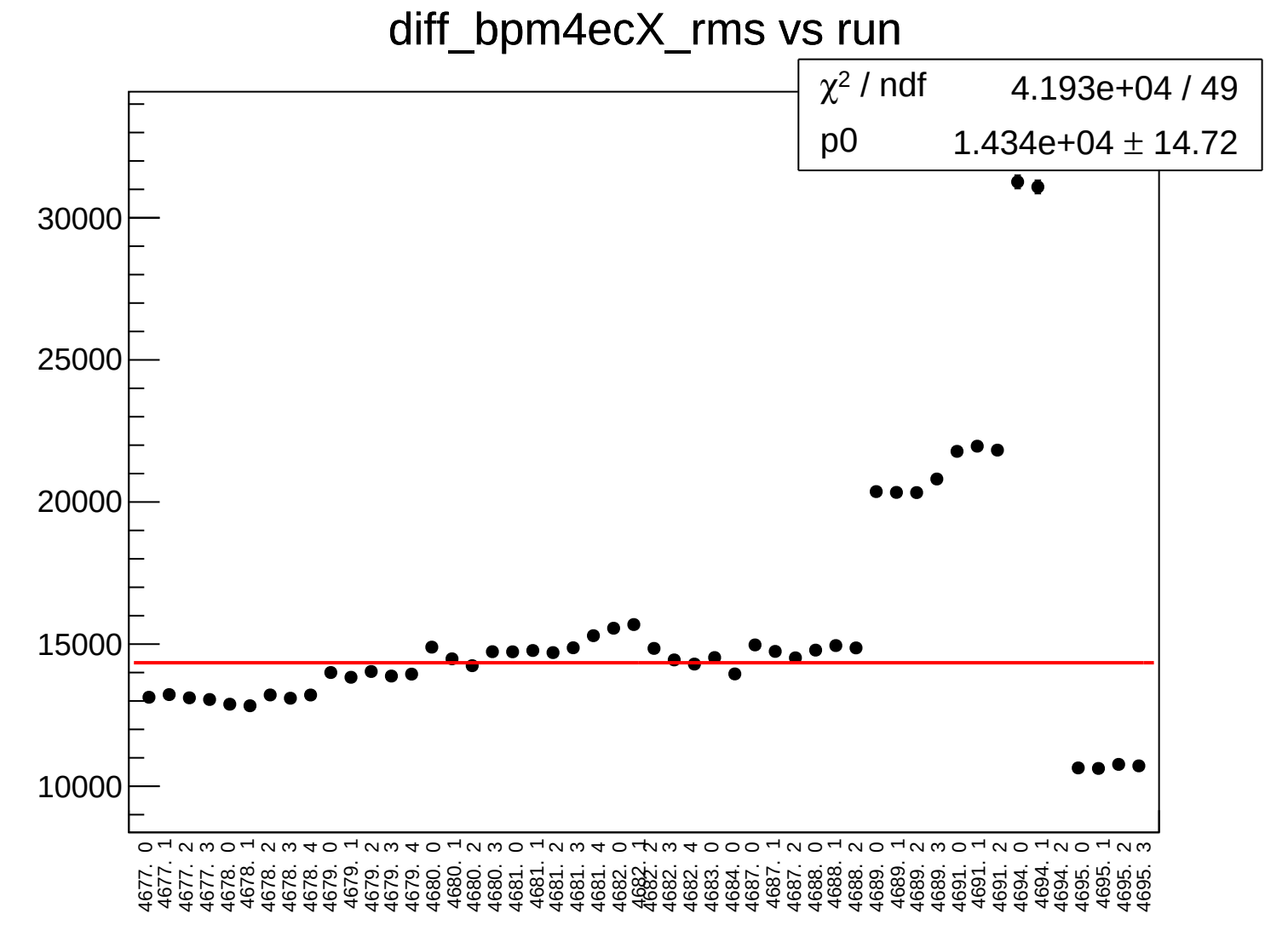

diff_bpm4acY_mean vs run
χ² / ndf 42.79 / 49
p0 −11.97 ± 8.146
pull
Entries 50
Mean 20.89
Std Dev 8.52

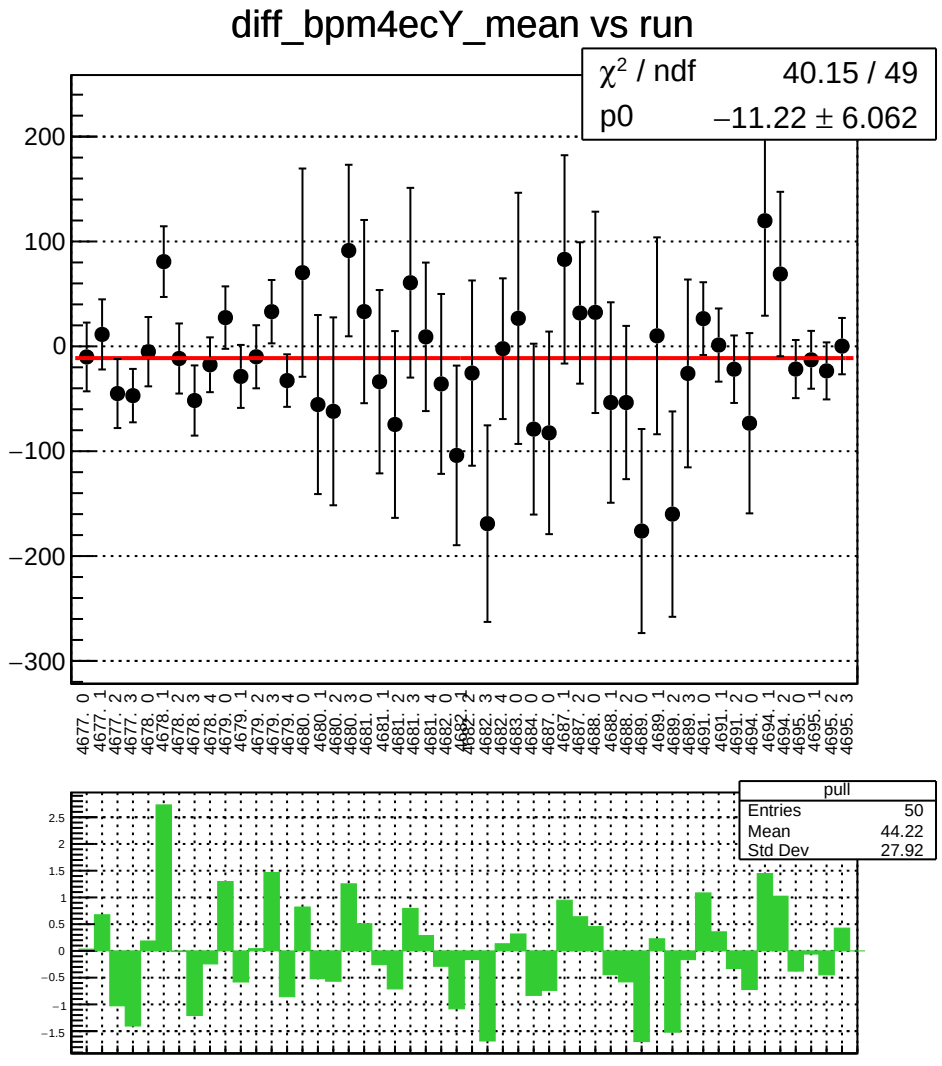

pull1D
Entries 50
Mean −0.03867
Std Dev 0.9243

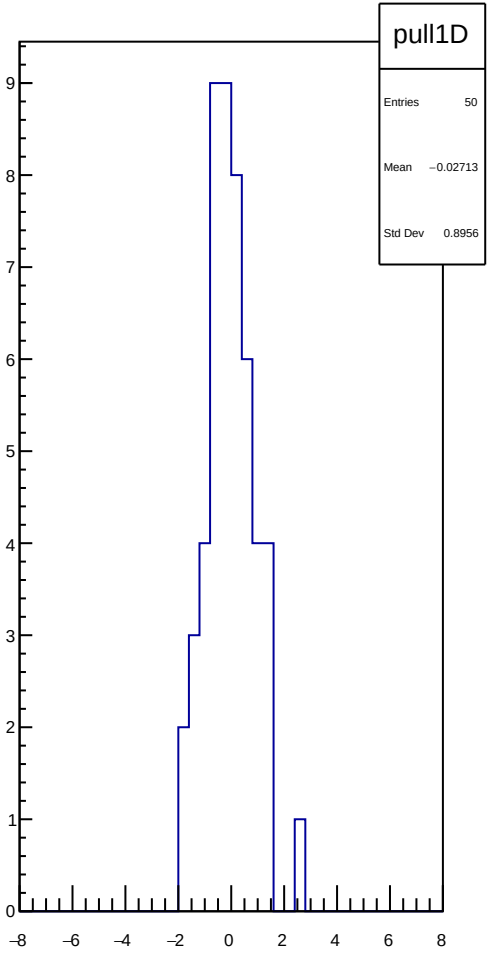

diff_bpm4acY_rms vs run
χ² / ndf 2.158e+05 / 49
p0 5075 ± 5.76
12000
10000
8000
6000
4000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

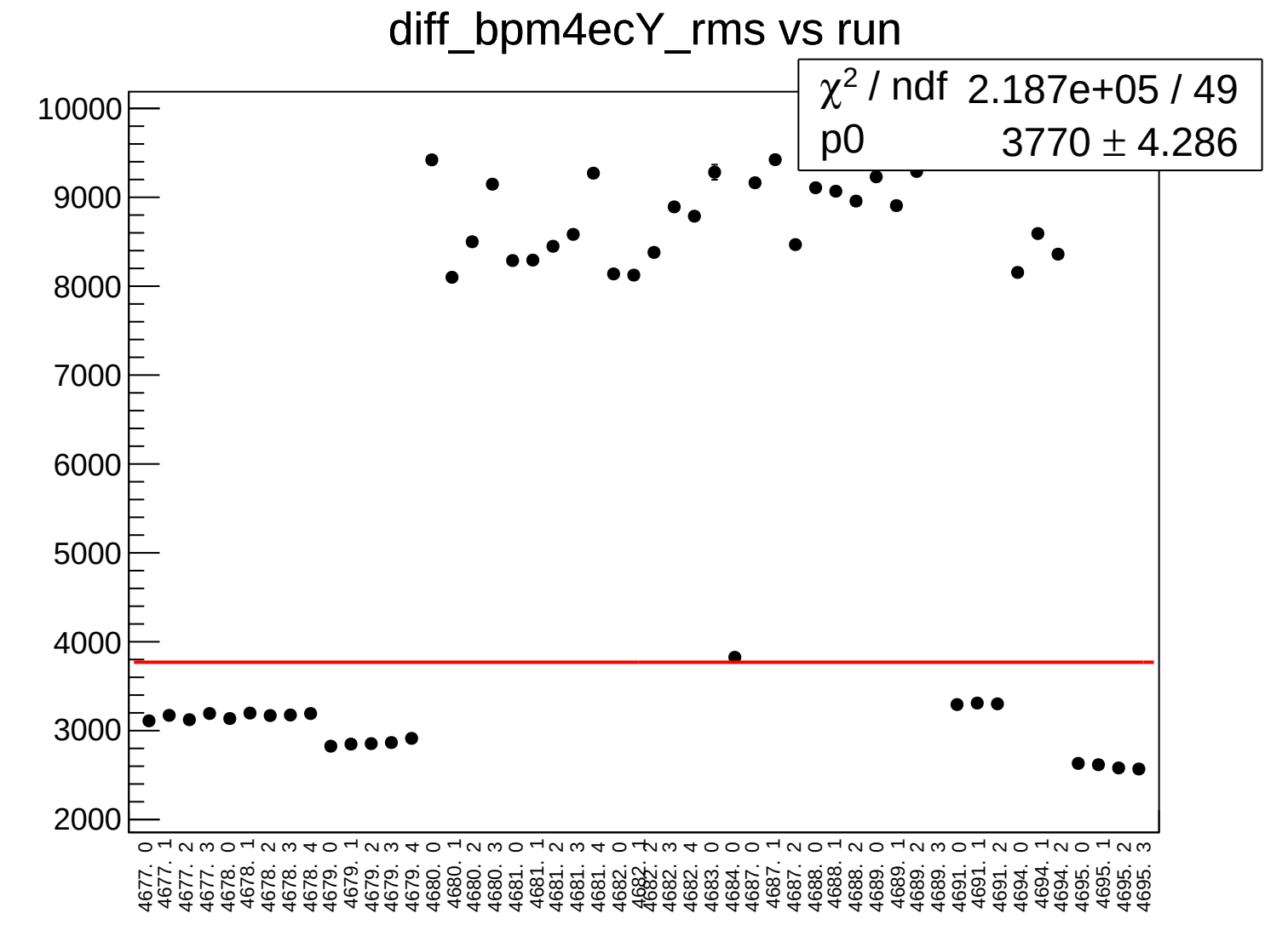

diff_bpm4ecX_mean vs run
χ² / ndf 61.31 / 49
p0 −16.09 ± 20.81
1000
500
0
−500
−1000
pull
Entries 50
Mean 90.41
Std Dev 66.34
2
1
0
−1
−2
−3

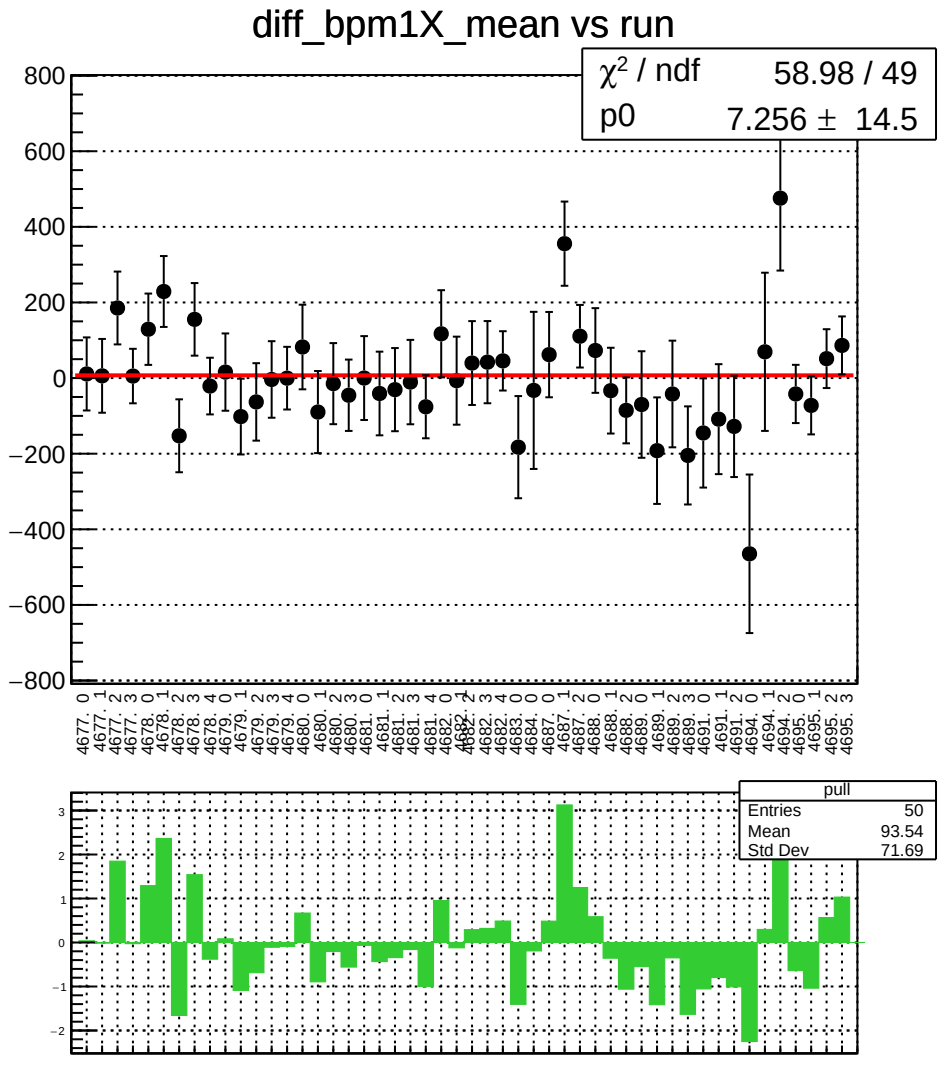

pull1D
Entries 50
Mean 0.04081
Std Dev 1.107
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

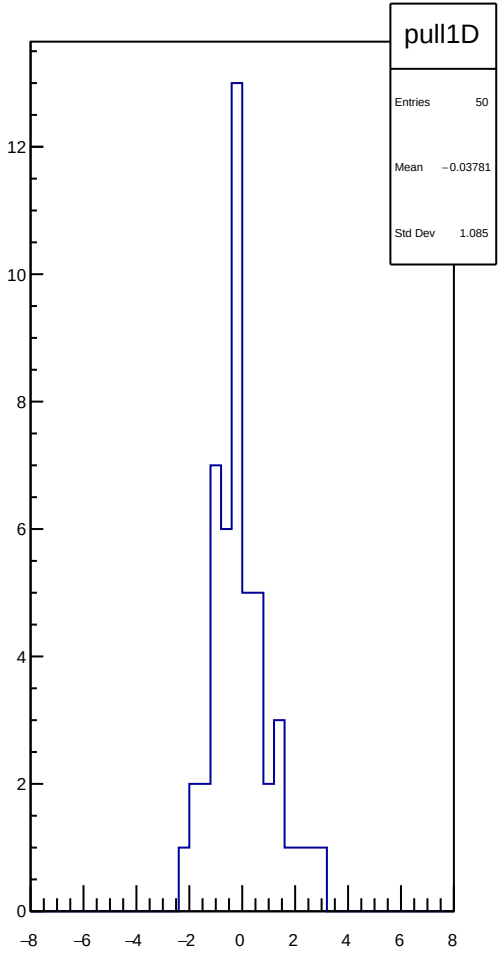

diff_bpm4ecX_rms vs run
χ² / ndf 4.193e+04 / 49
p0 1.434e+04 ± 14.72
30000
25000
20000
15000
10000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

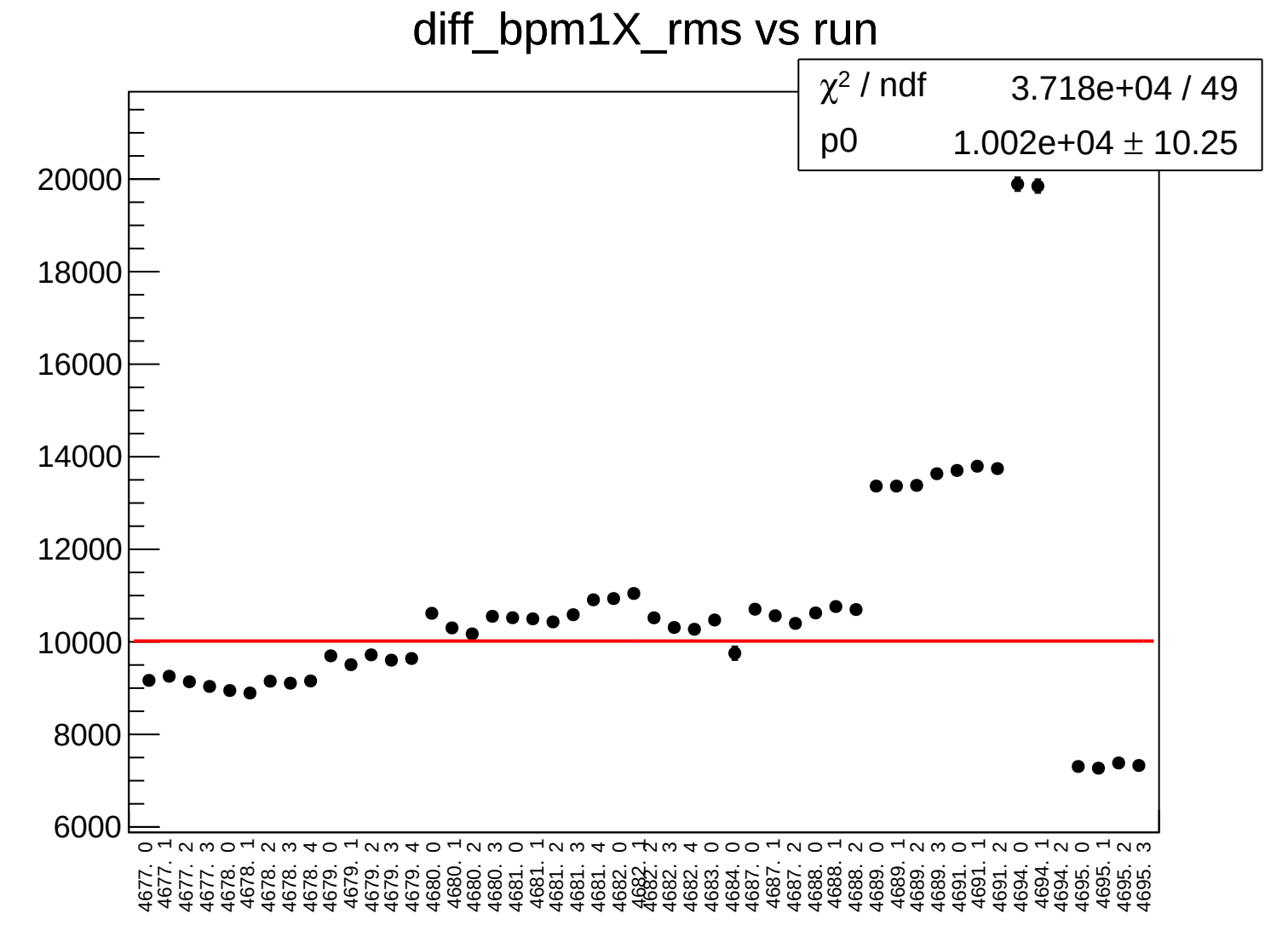

diff_bpm4ecY_mean vs run
χ² / ndf 40.15 / 49
p0 −11.22 ± 6.062
pull
Entries 50
Mean 44.22
Std Dev 27.92

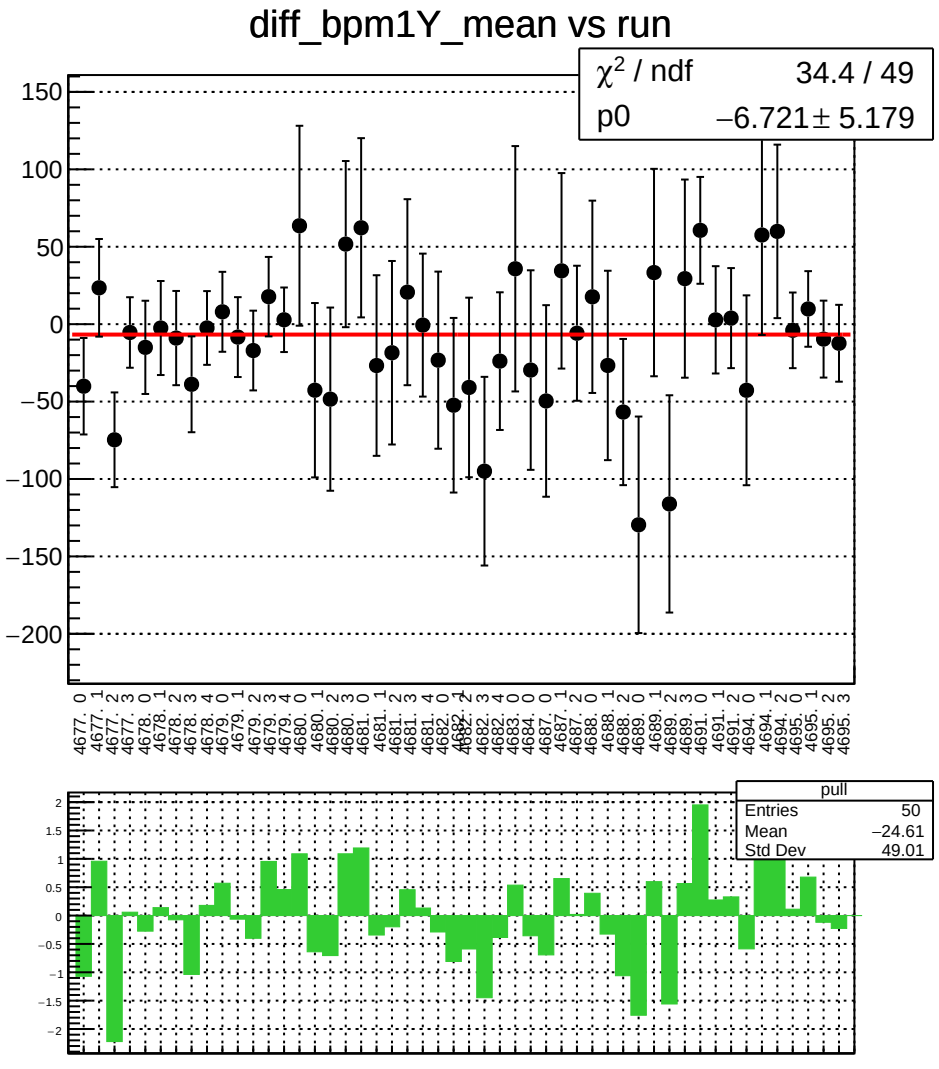

pull1D
Entries 50
Mean −0.02713
Std Dev 0.8956

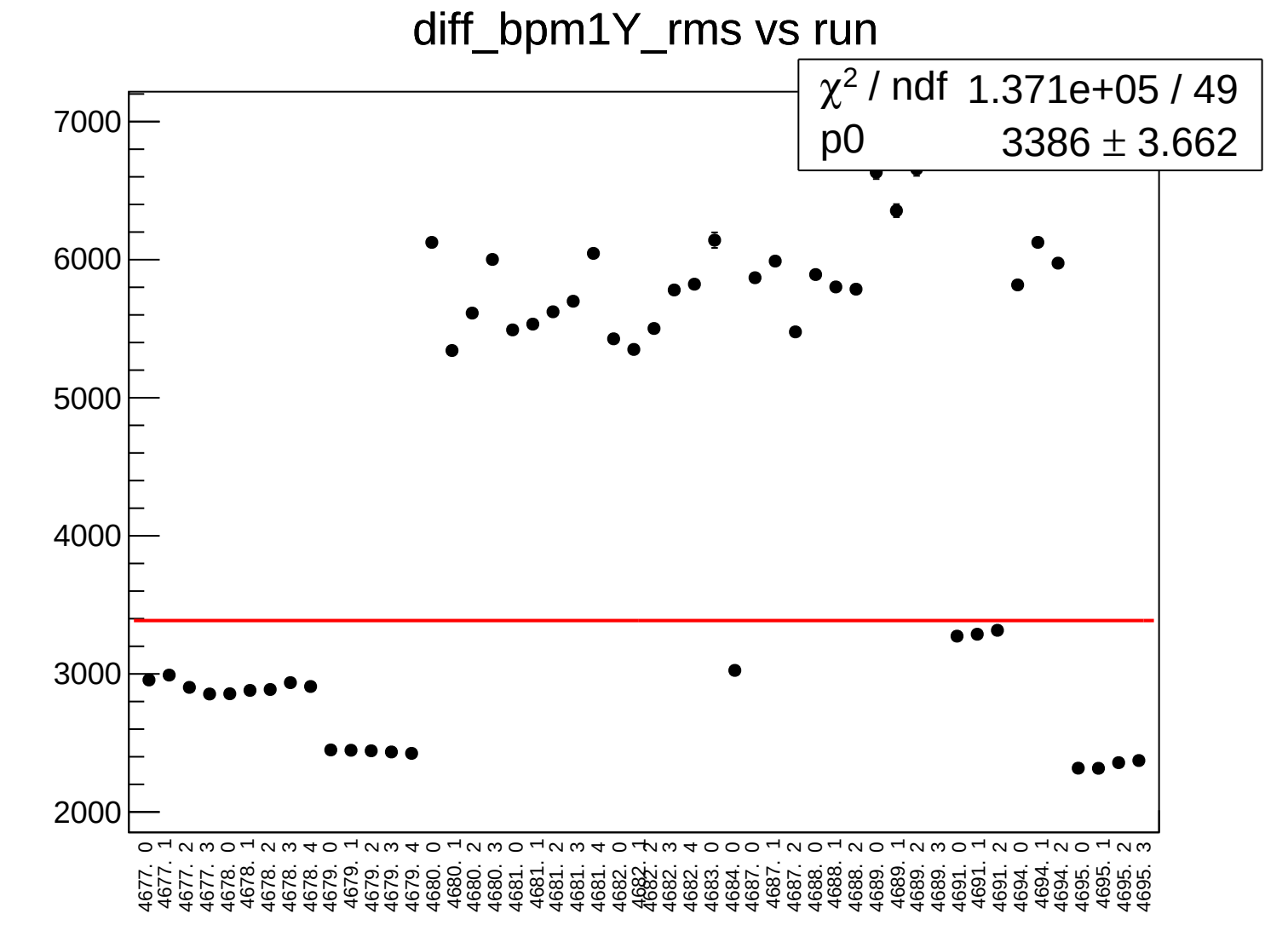

diff_bpm4ecY_rms vs run
χ² / ndf 2.187e+05 / 49
p0 3770 ± 4.286
10000
9000
8000
7000
6000
5000
4000
3000
2000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


diff_bpm1X_mean vs run
χ² / ndf 58.98 / 49
p0 7.256 ± 14.5
pull
Entries 50
Mean 93.54
Std Dev 71.69


pull1D
Entries 50
Mean −0.03781
Std Dev 1.085


diff_bpm1X_rms vs run
χ² / ndf 3.718e+04 / 49
p0 1.002e+04 ± 10.25
20000
18000
16000
14000
12000
10000
8000
6000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


diff_bpm1Y_mean vs run
χ² / ndf 34.4 / 49
p0 −6.721 ± 5.179
150
100
50
0
−50
−100
−150
−200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean −24.61
Std Dev 49.01
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean −0.03321
Std Dev 0.8288
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm1Y_rms vs run
χ² / ndf 1.371e+05 / 49
p0 3386 ± 3.662
7000
6000
5000
4000
3000
2000
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4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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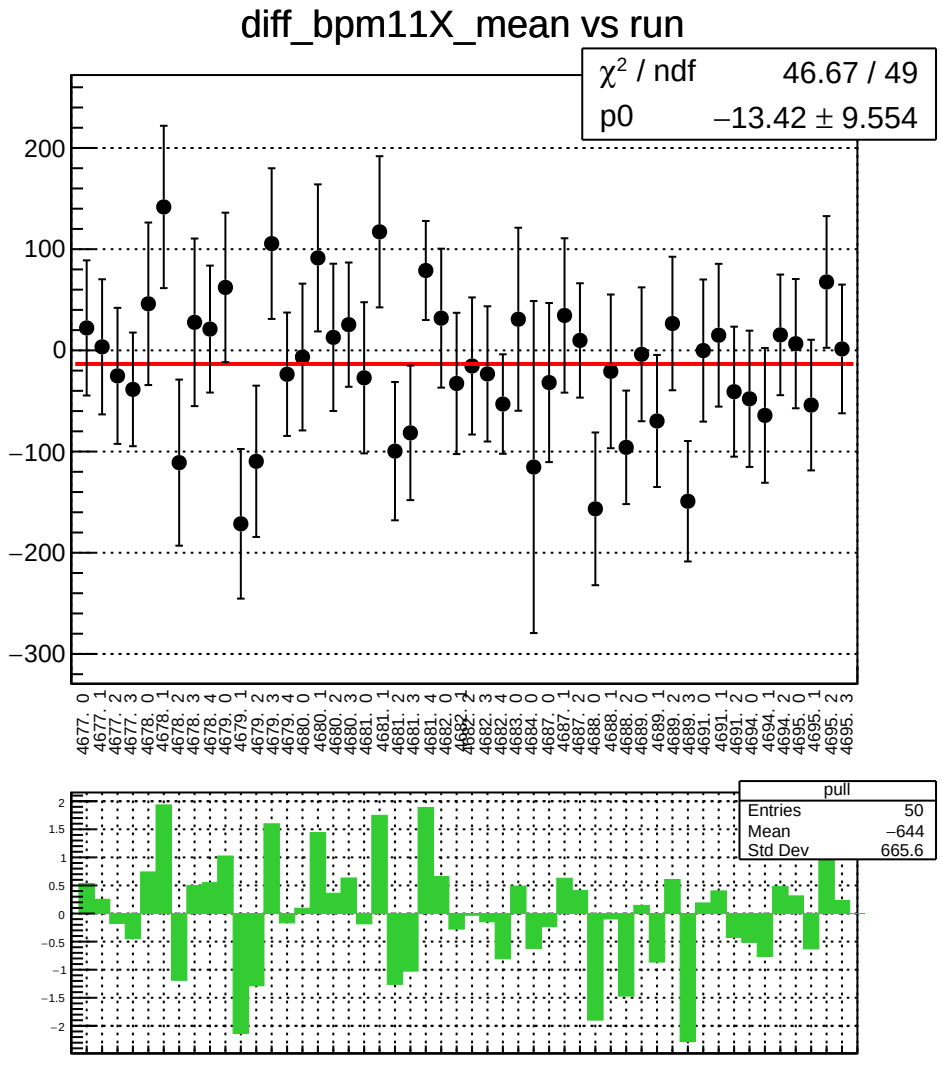
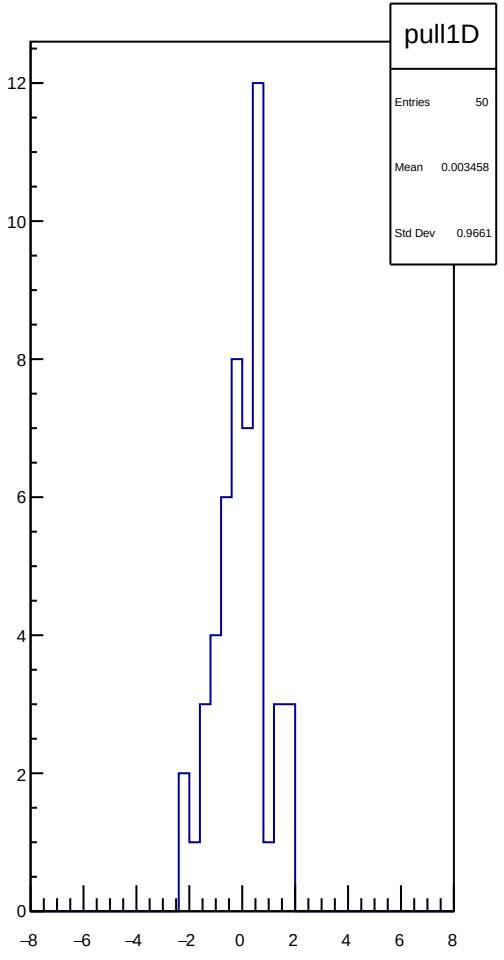
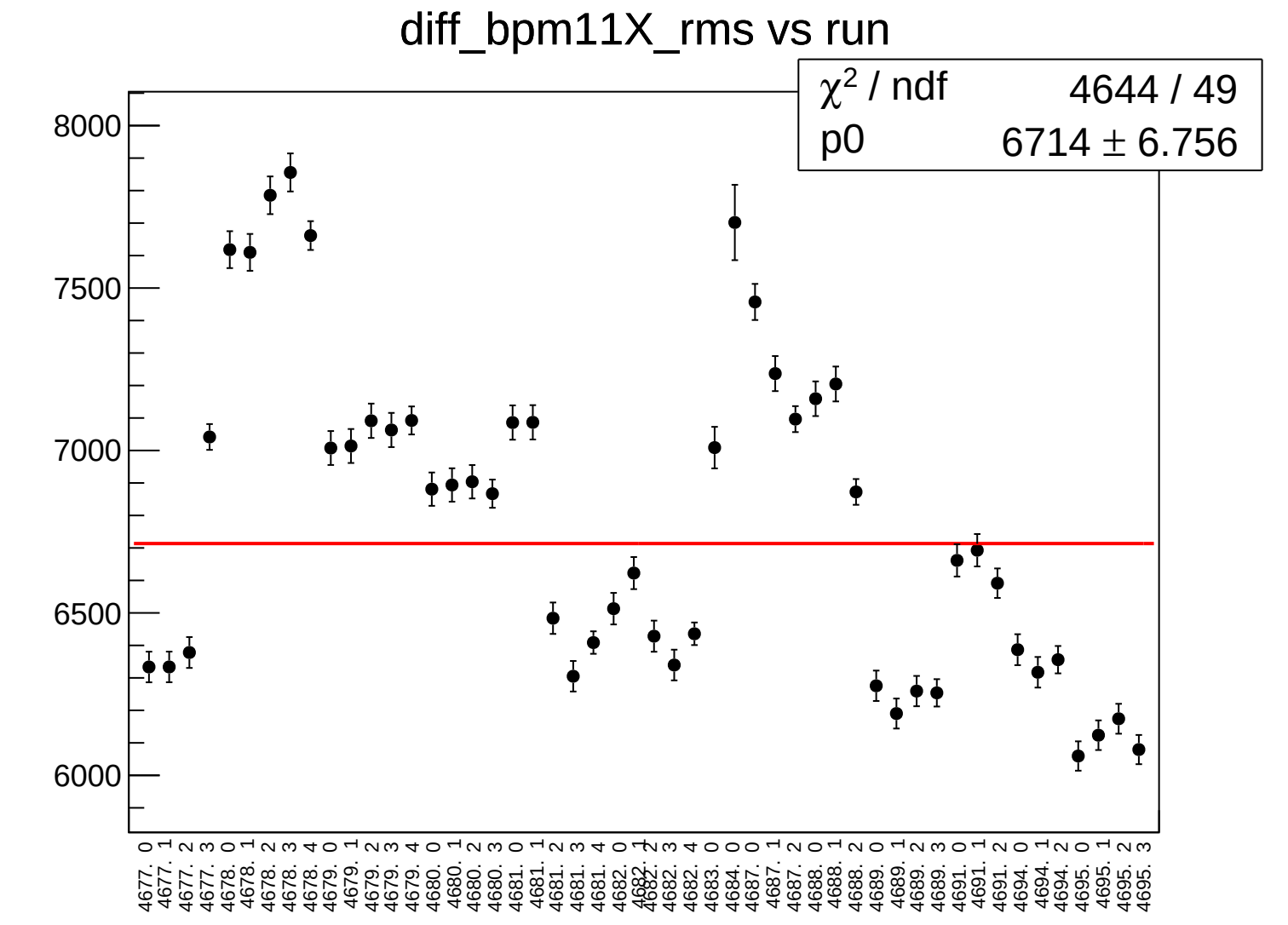
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


diff_bpm11X_mean vs run
χ² / ndf 46.67 / 49
p0 −13.42 ± 9.554
pull
Entries 50
Mean −644
Std Dev 665.6


pull1D
Entries 50
Mean 0.003458
Std Dev 0.9661


diff_bpm11X_rms vs run
χ² / ndf 4644 / 49
p0 6714 ± 6.756
8000
7500
7000
6500
6000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
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4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4695. 0
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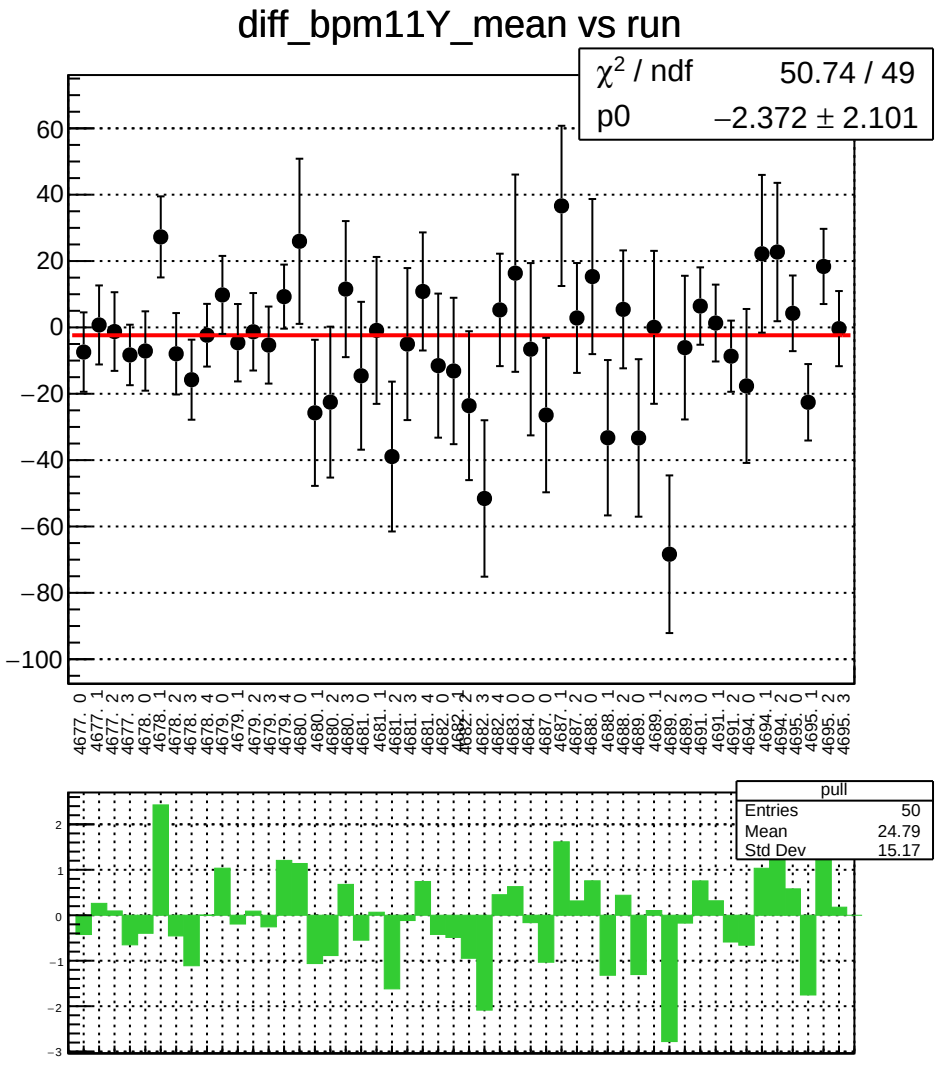
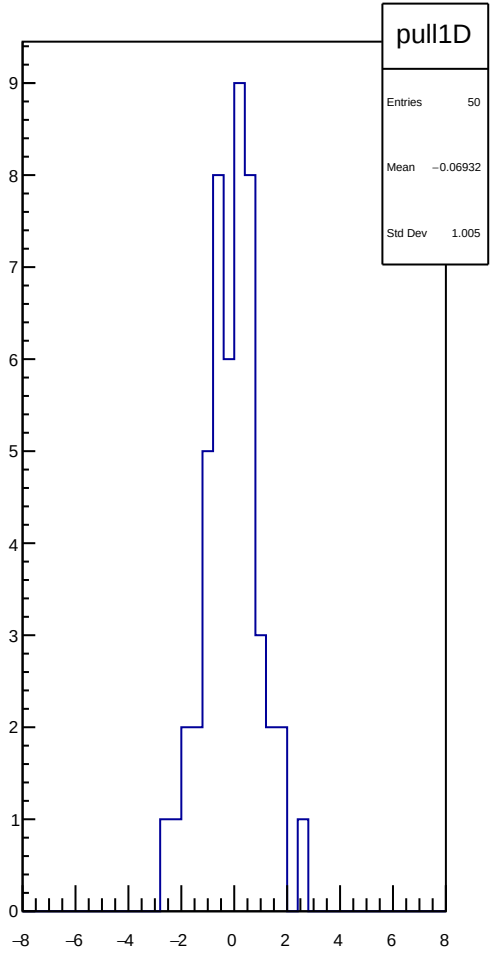
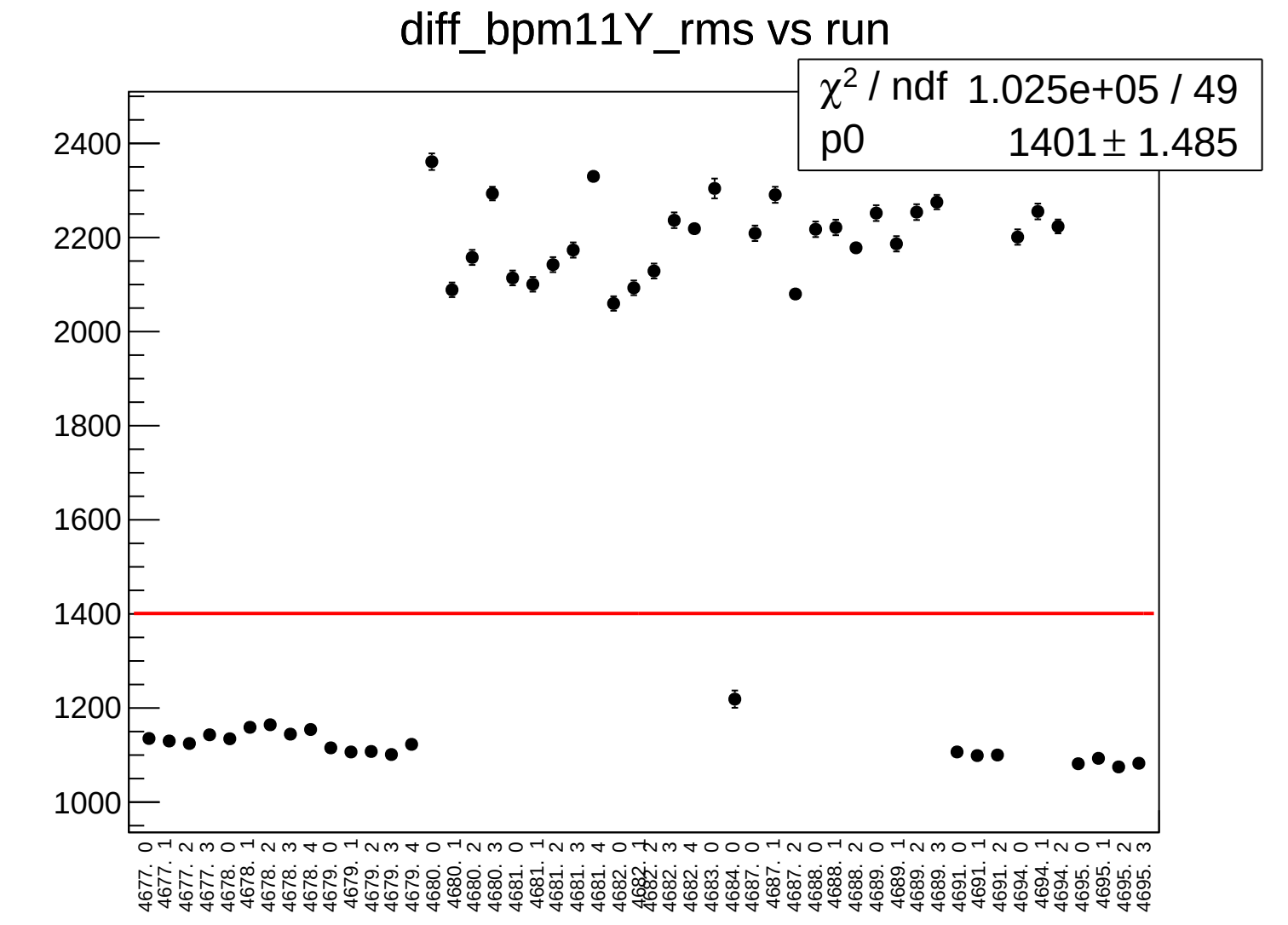
4695. 2
4695. 3


diff_bpm11Y_mean vs run
χ² / ndf 50.74 / 49
p0 −2.372 ± 2.101
pull
Entries 50
Mean 24.79
Std Dev 15.17


pull1D
Entries 50
Mean −0.06932
Std Dev 1.005


diff_bpm11Y_rms vs run
χ² / ndf 1.025e+05 / 49
p0 1401 ± 1.485
2400
2200
2000
1800
1600
1400
1200
1000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4694. 1
4694. 2
4695. 0
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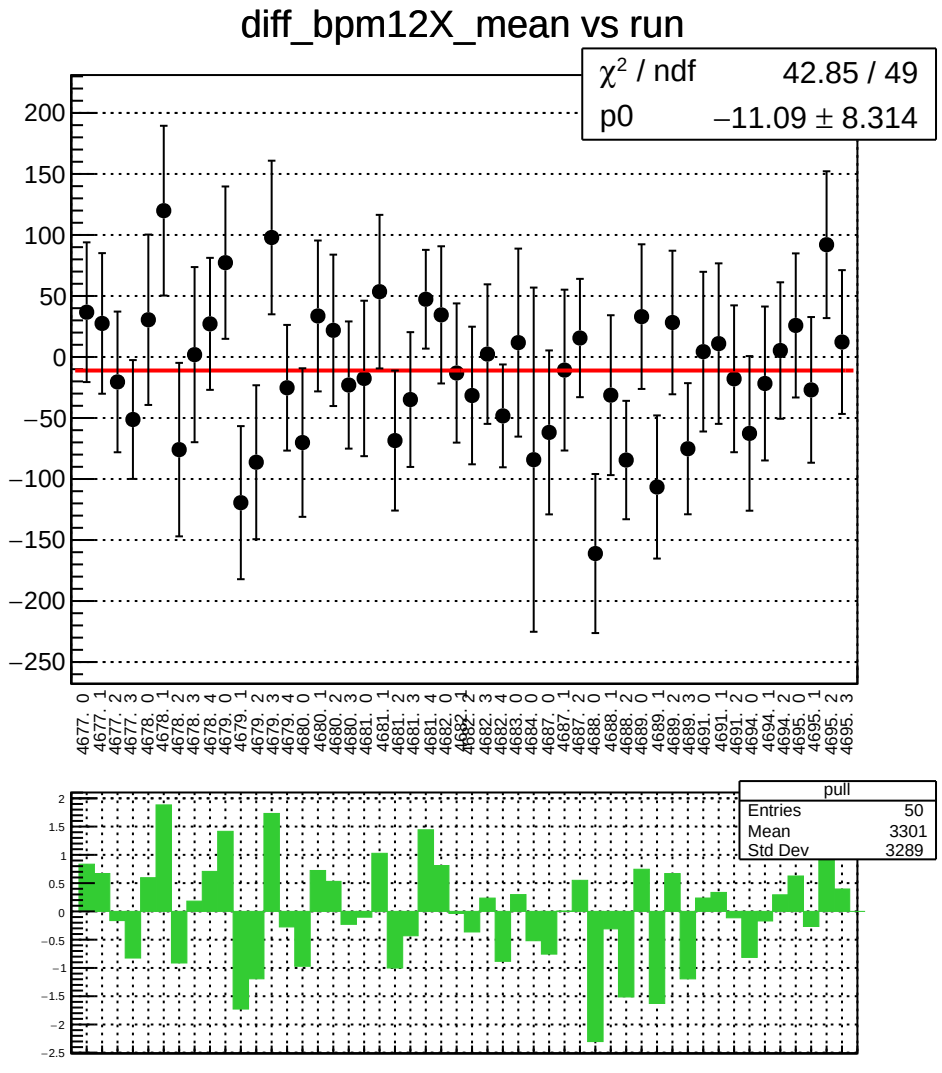
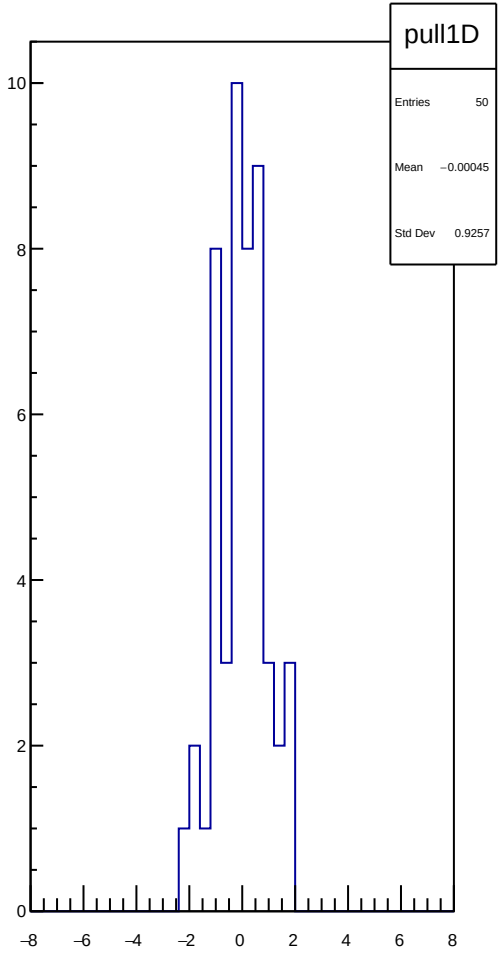
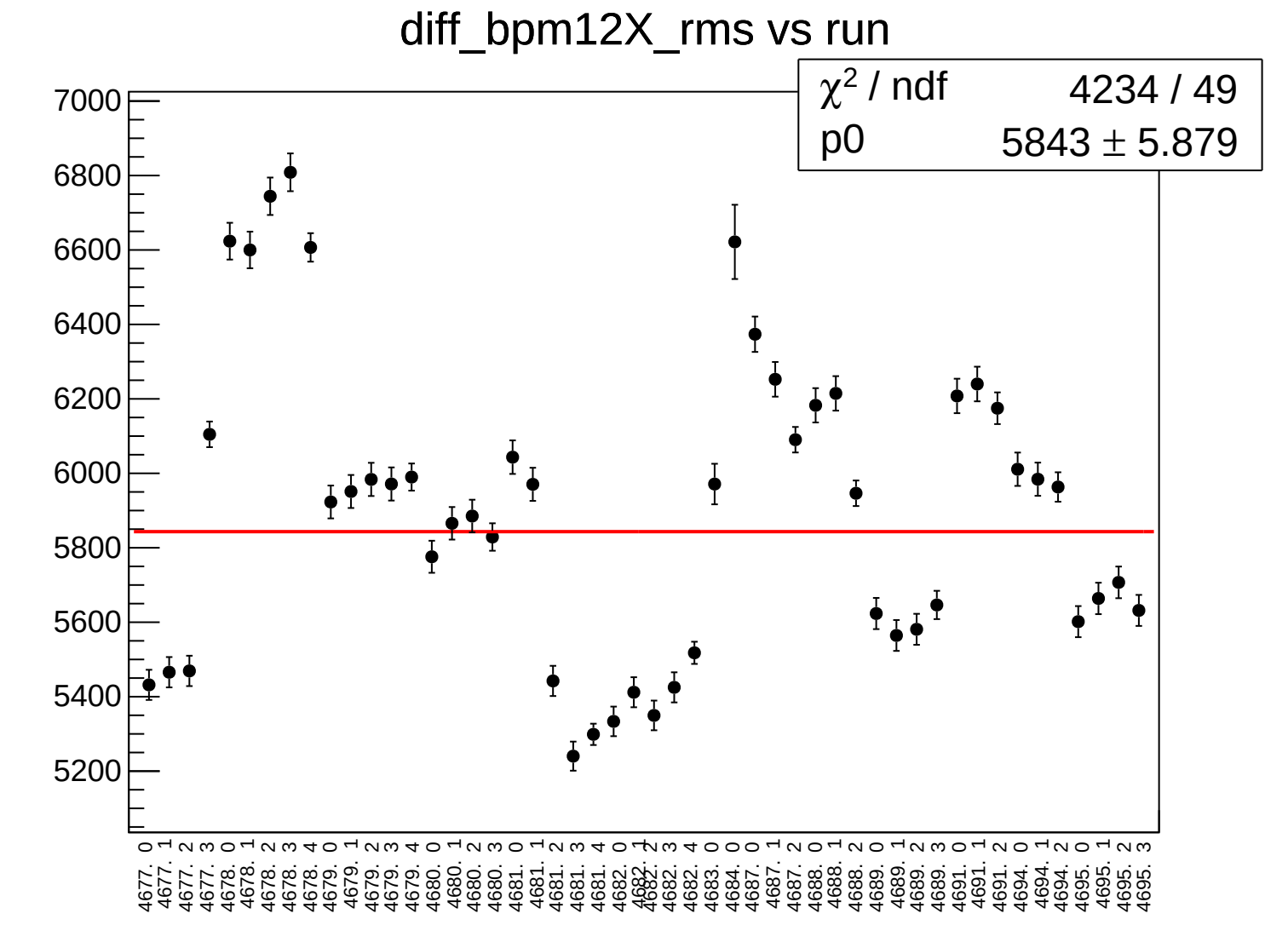
4695. 2
4695. 3


diff_bpm12X_mean vs run
χ² / ndf 42.85 / 49
p0 −11.09 ± 8.314
pull
Entries 50
Mean 3301
Std Dev 3289


pull1D
Entries 50
Mean −0.00045
Std Dev 0.9257


diff_bpm12X_rms vs run
χ² / ndf 4234 / 49
p0 5843 ± 5.879
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4691. 2
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4694. 1
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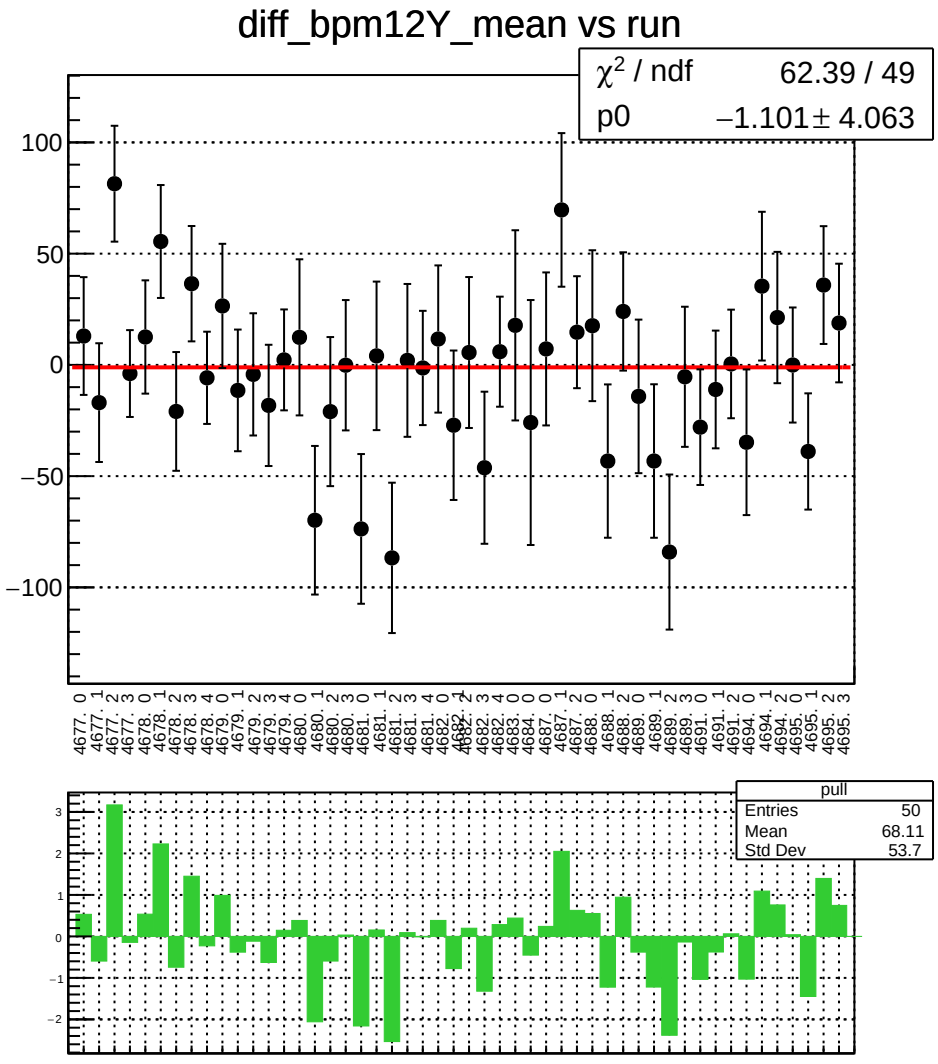
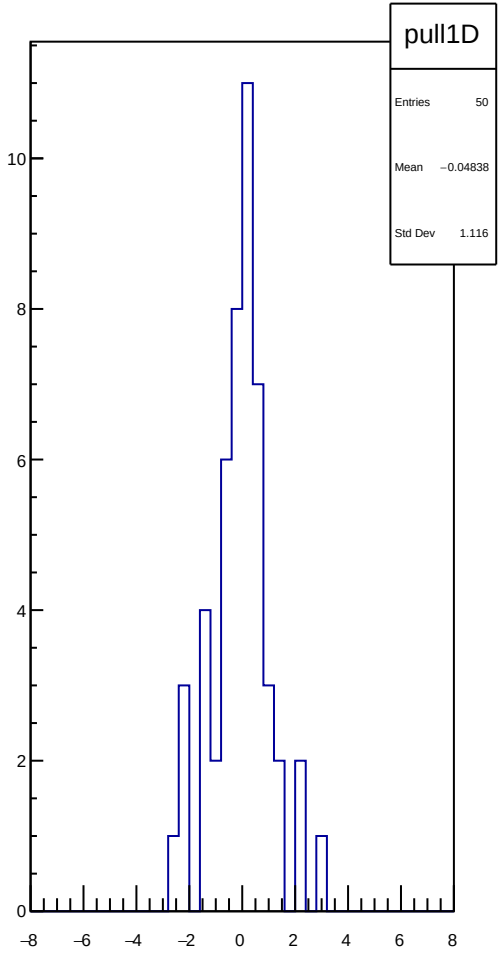
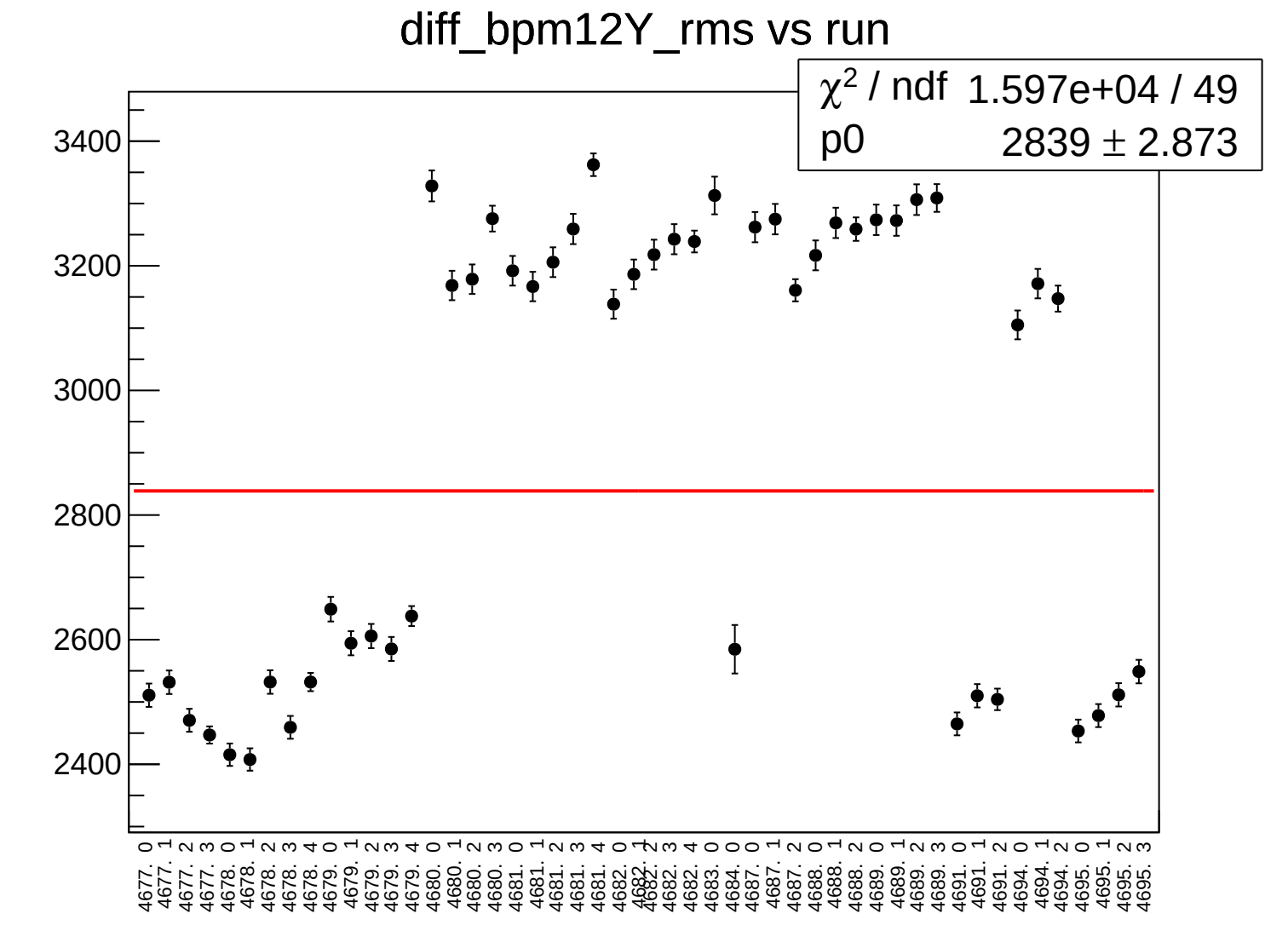
4695. 2
4695. 3


diff_bpm12Y_mean vs run
χ² / ndf 62.39 / 49
p0 −1.101 ± 4.063
100
50
0
−50
−100
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 68.11
Std Dev 53.7
3
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.04838
Std Dev 1.116
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm12Y_rms vs run
χ² / ndf 1.597e+04 / 49
p0 2839 ± 2.873
3400
3200
3000
2800
2600
2400
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4694. 1
4694. 2
4695. 0
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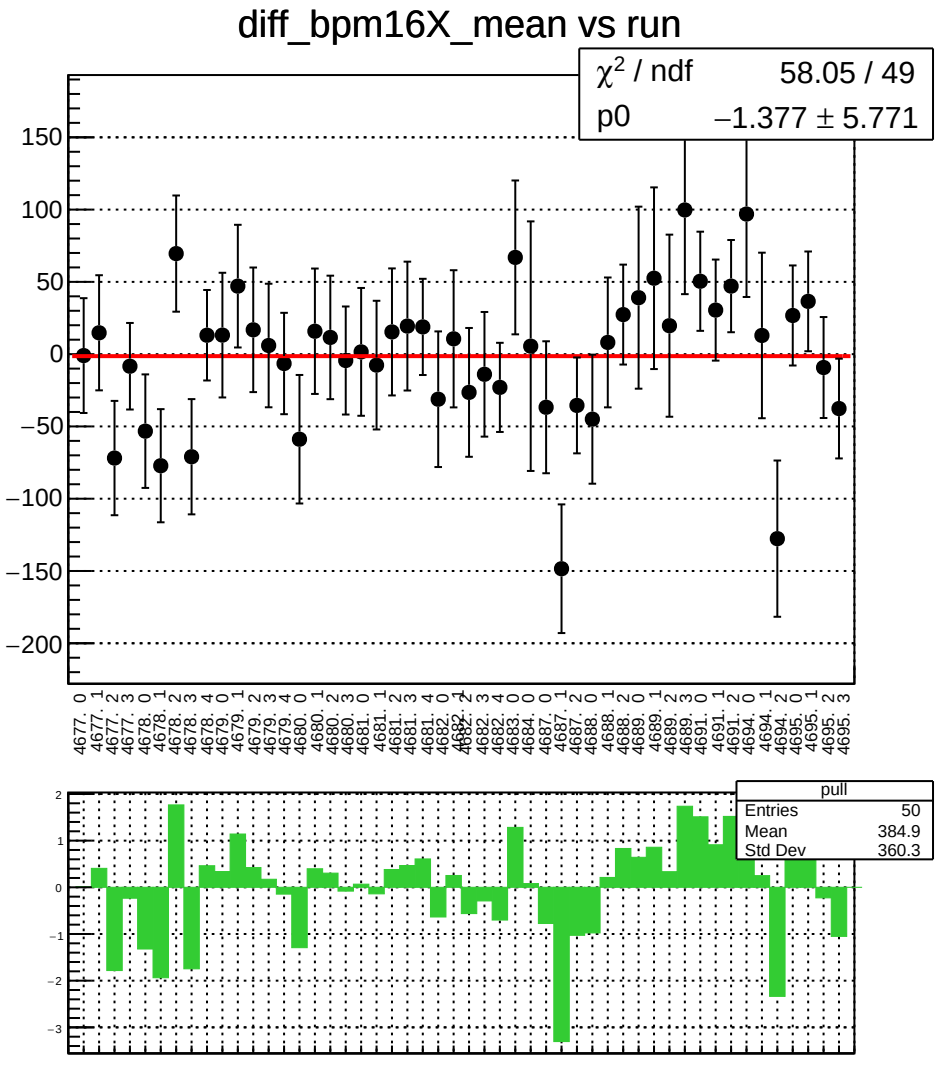
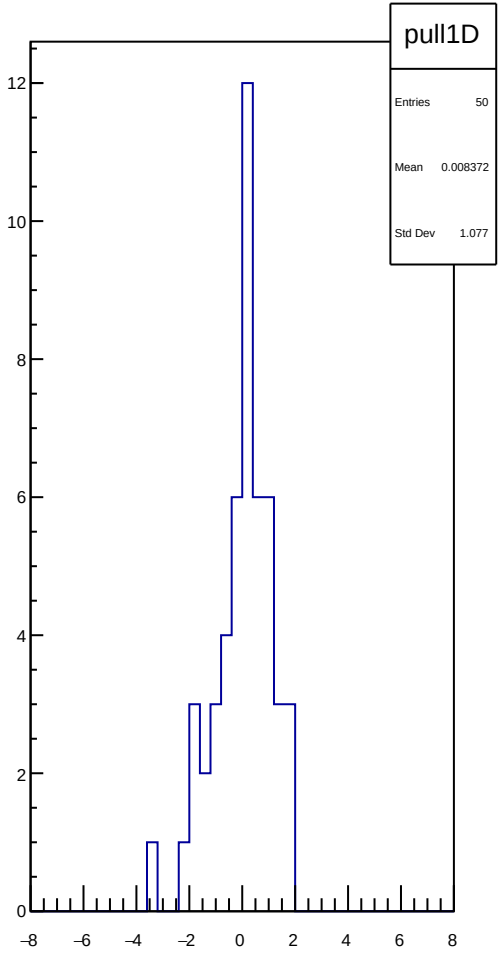
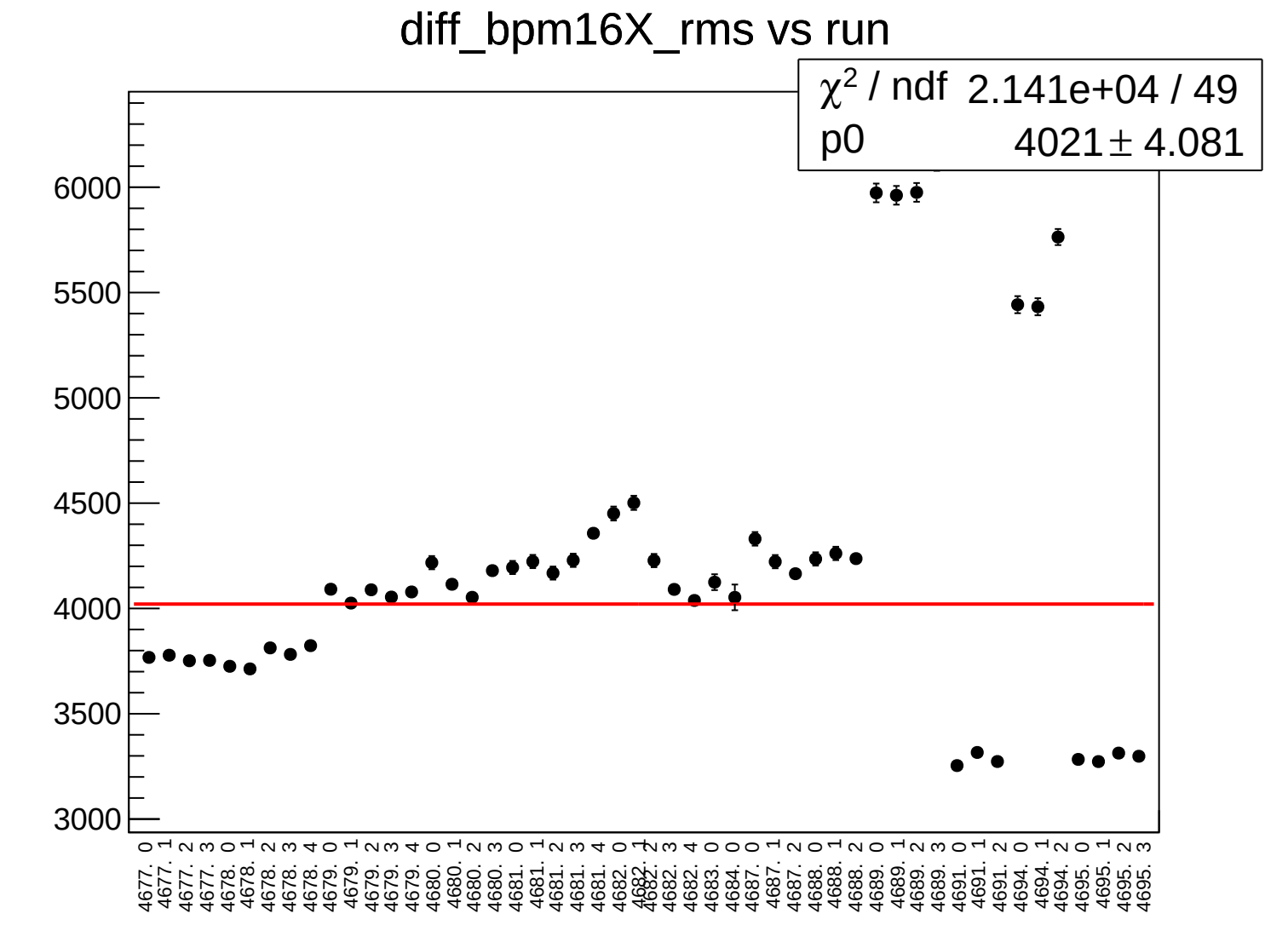
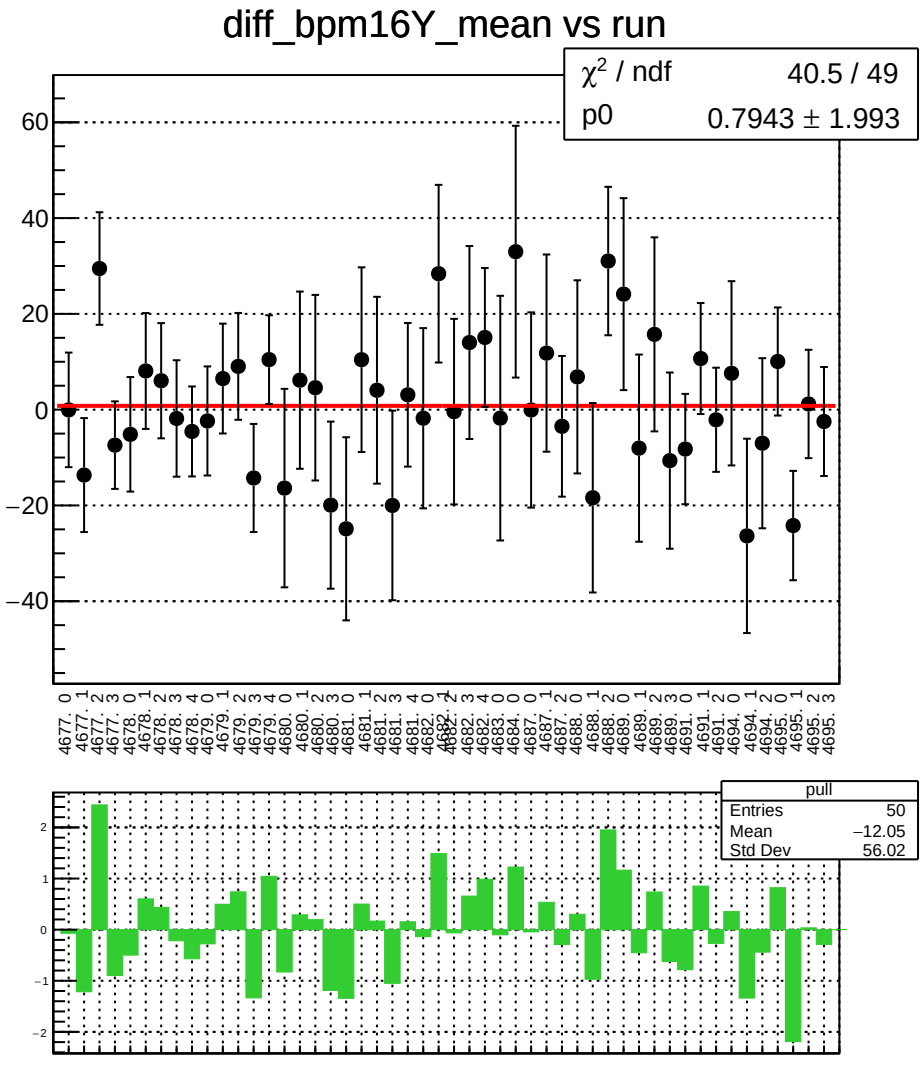
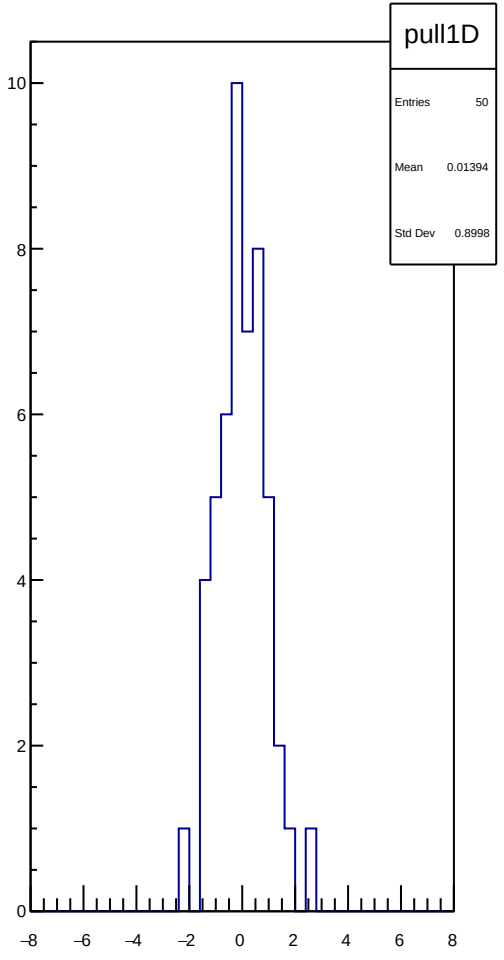
4695. 2
4695. 3

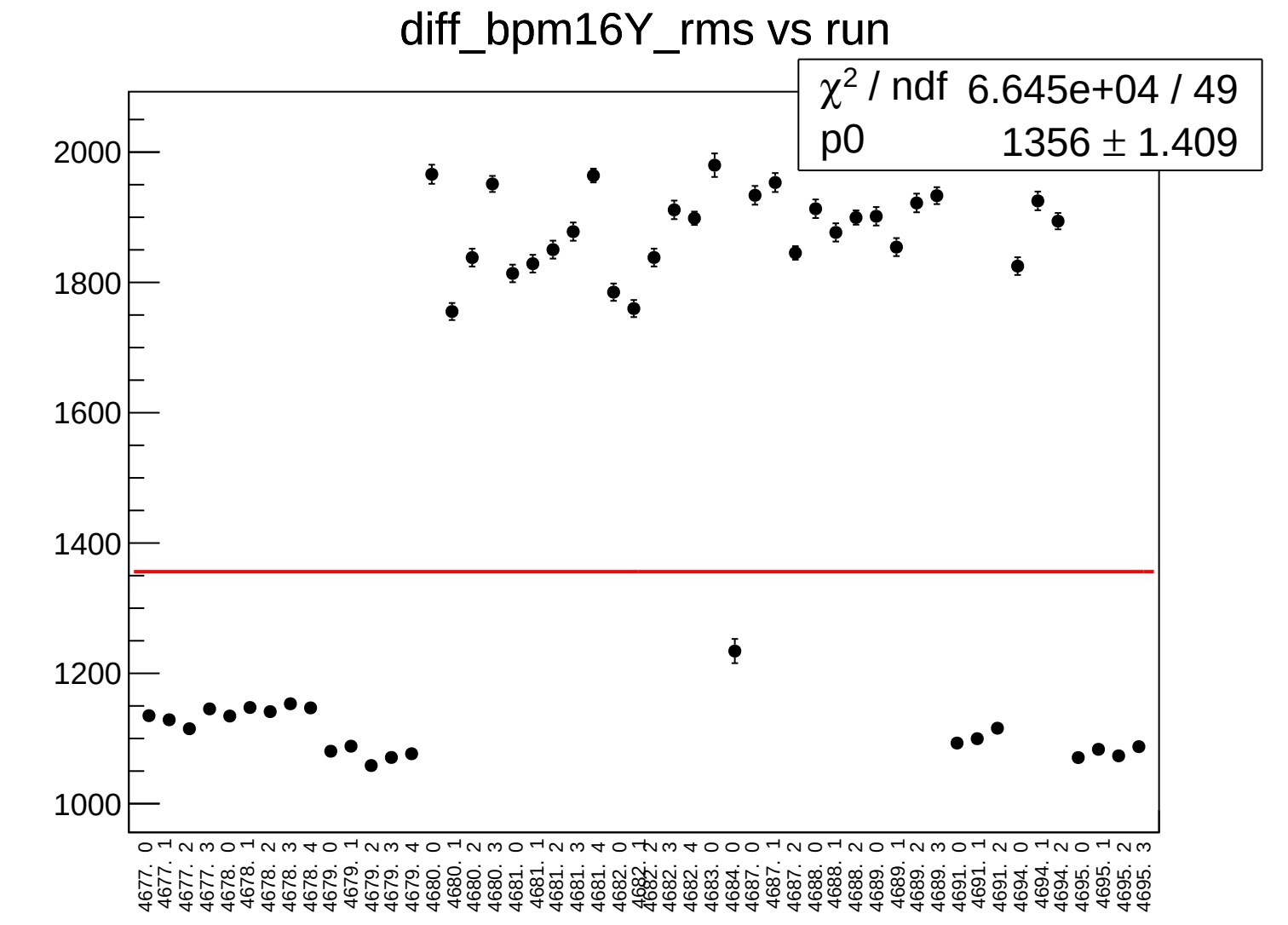

diff_bpm16X_mean vs run
χ² / ndf 58.05 / 49
p0 −1.377 ± 5.771
150
100
50
0
−50
−100
−150
−200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 384.9
Std Dev 360.3
2
1
0
−1
−2
−3

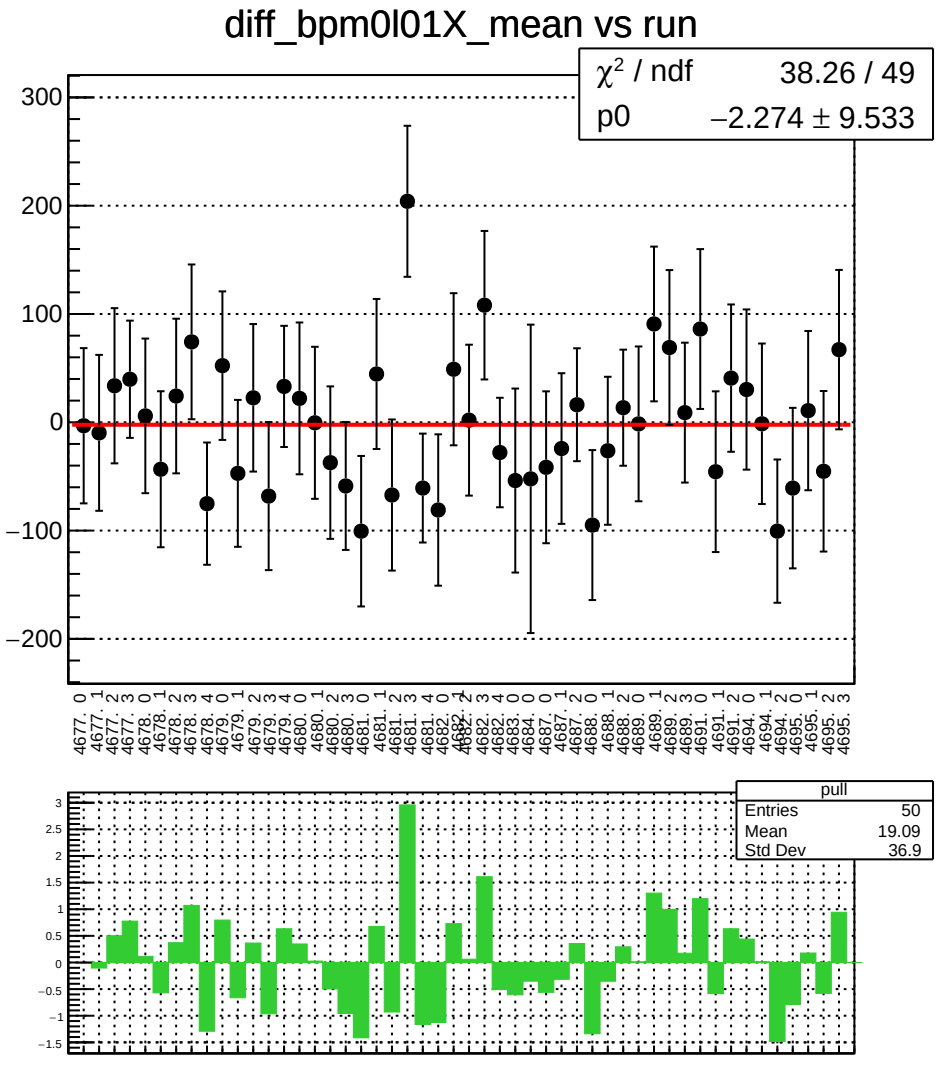

pull1D
Entries 50
Mean 0.008372
Std Dev 1.077
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

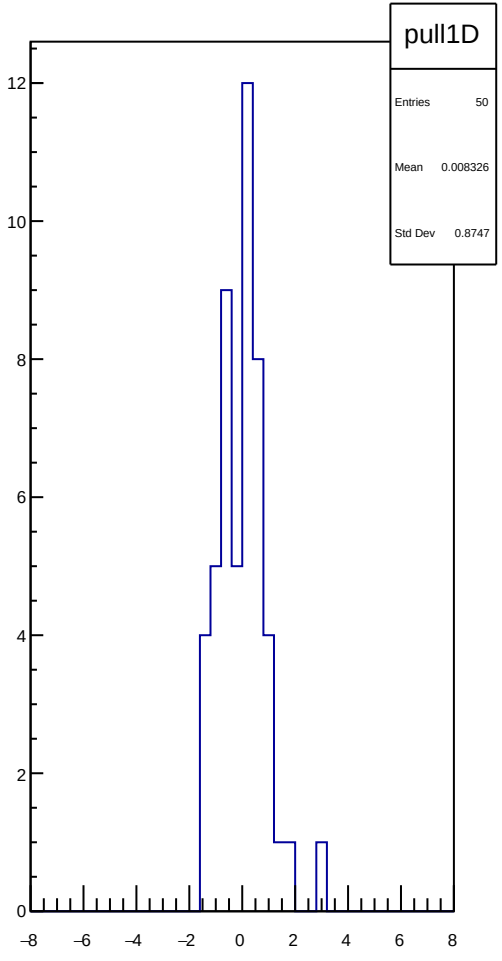

diff_bpm16X_rms vs run
χ² / ndf 2.141e+04 / 49
p0 4021 ± 4.081
6000
5500
5000
4500
4000
3500
3000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

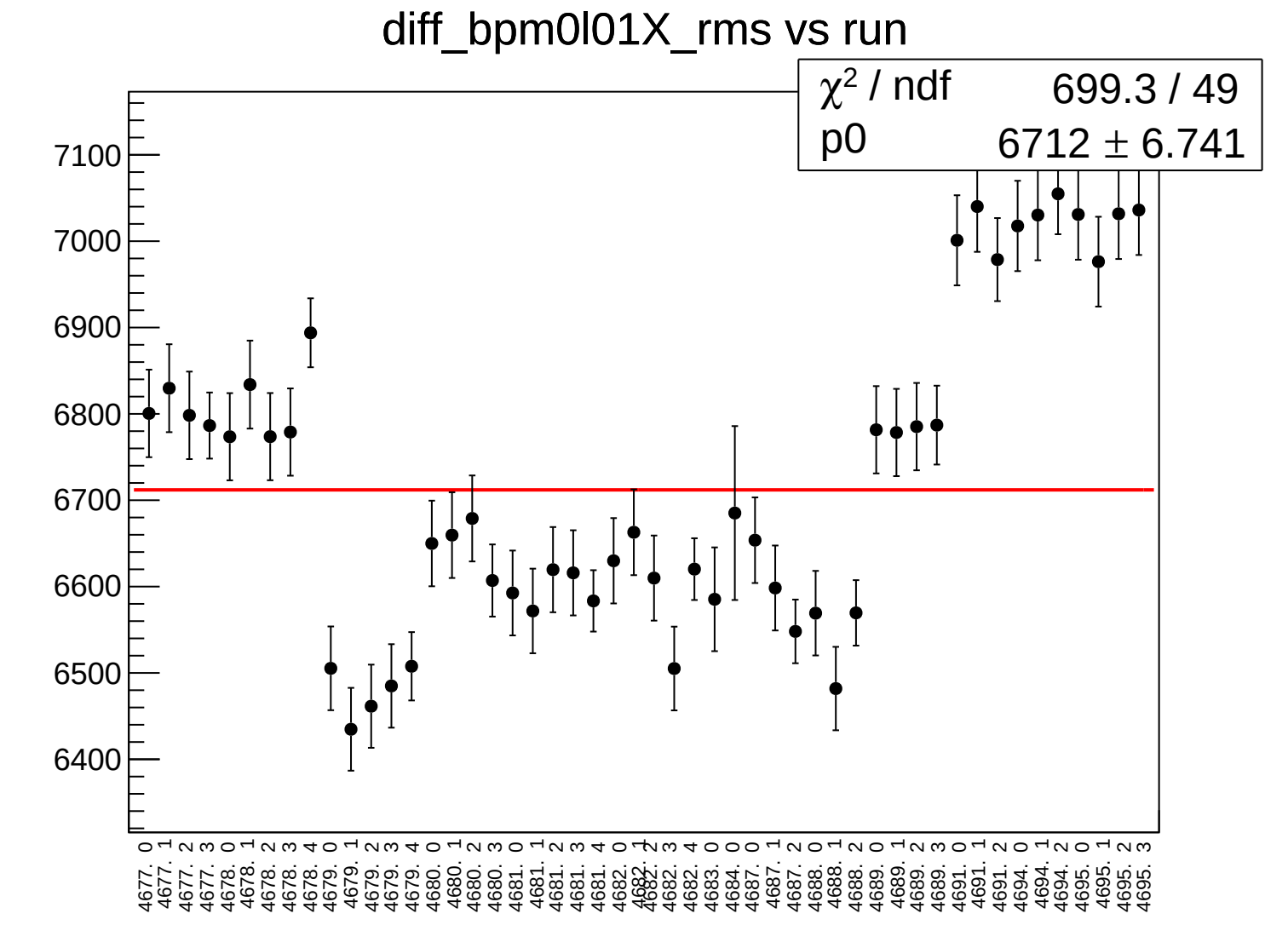

diff_bpm16Y_mean vs run
χ² / ndf 40.5 / 49
p0 0.7943 ± 1.993
pull
Entries 50
Mean −12.05
Std Dev 56.02

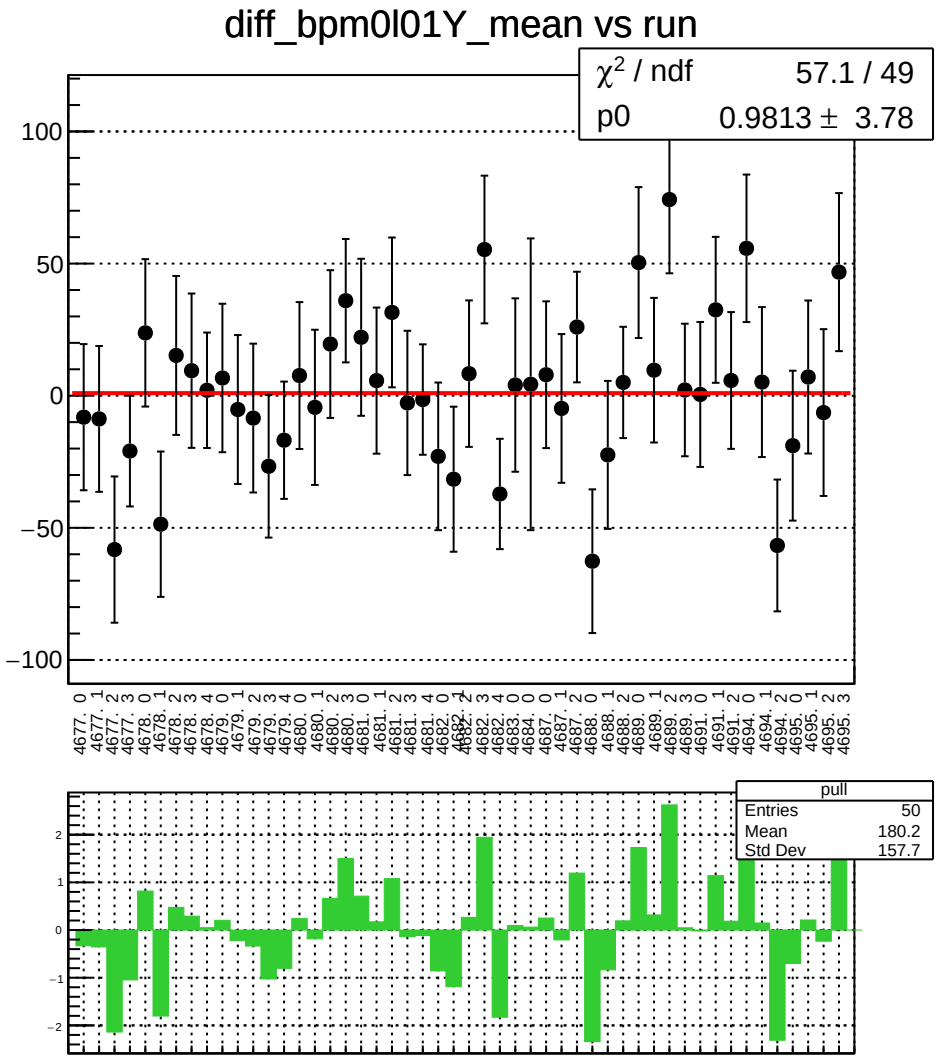

pull1D
Entries 50
Mean 0.01394
Std Dev 0.8998

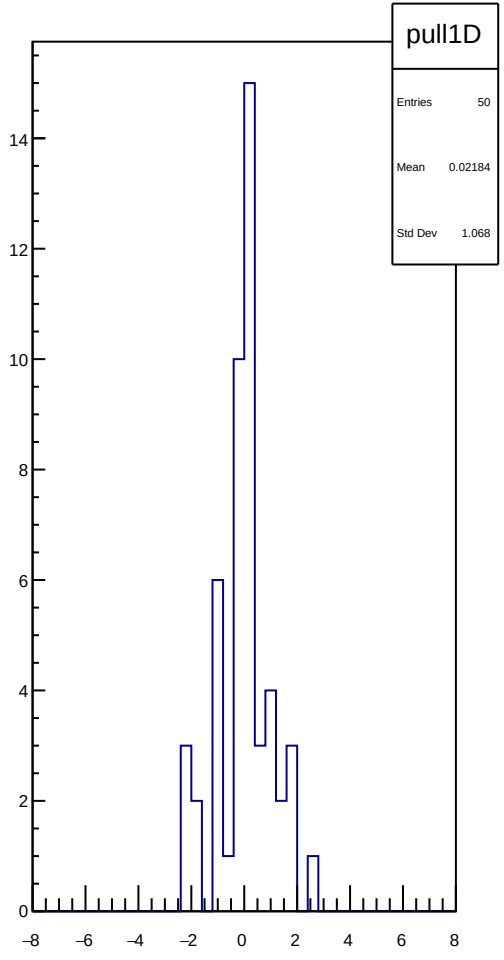

diff_bpm16Y_rms vs run
χ² / ndf 6.645e+04 / 49
p0 1356 ± 1.409
2000
1800
1600
1400
1200
1000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

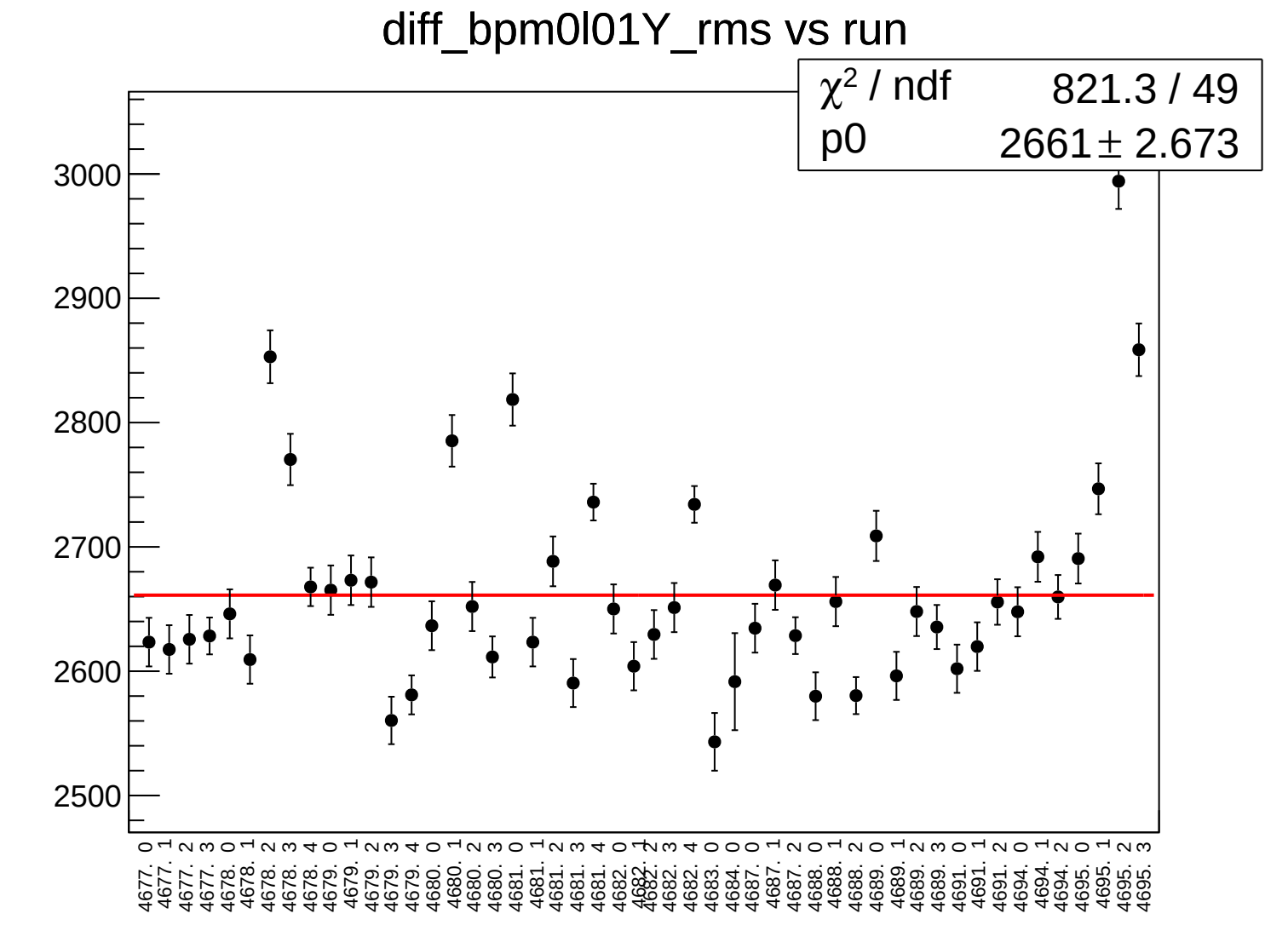

diff_bpm0l01X_mean vs run
χ² / ndf 38.26 / 49
p0 −2.274 ± 9.533
pull
Entries 50
Mean 19.09
Std Dev 36.9

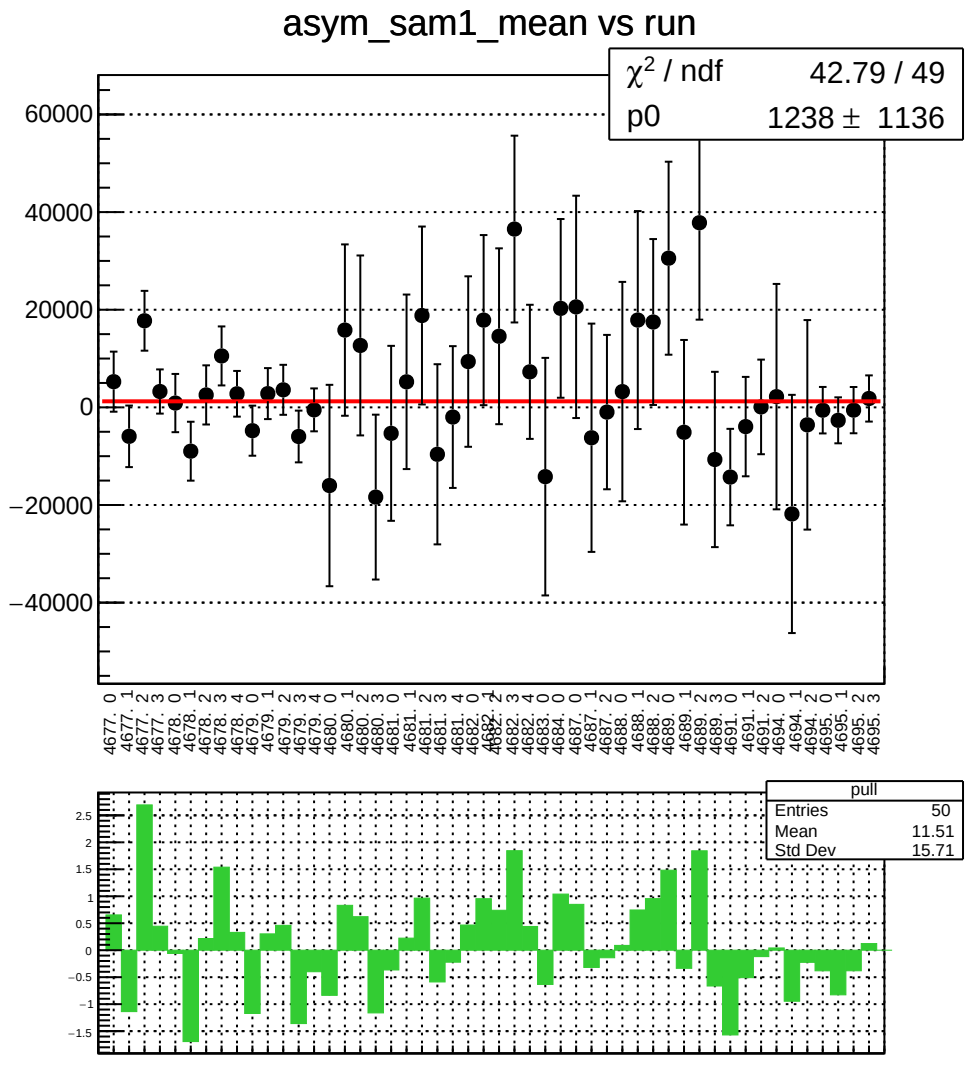

pull1D
Entries 50
Mean 0.008326
Std Dev 0.8747

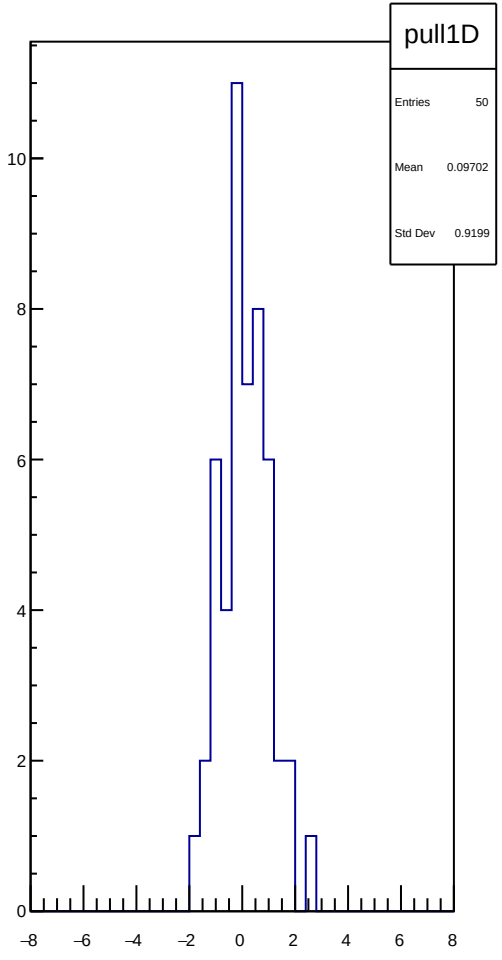

diff_bpm0l01X_rms vs run
χ² / ndf 699.3 / 49
p0 6712 ± 6.741
7100
7000
6900
6800
6700
6600
6500
6400
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

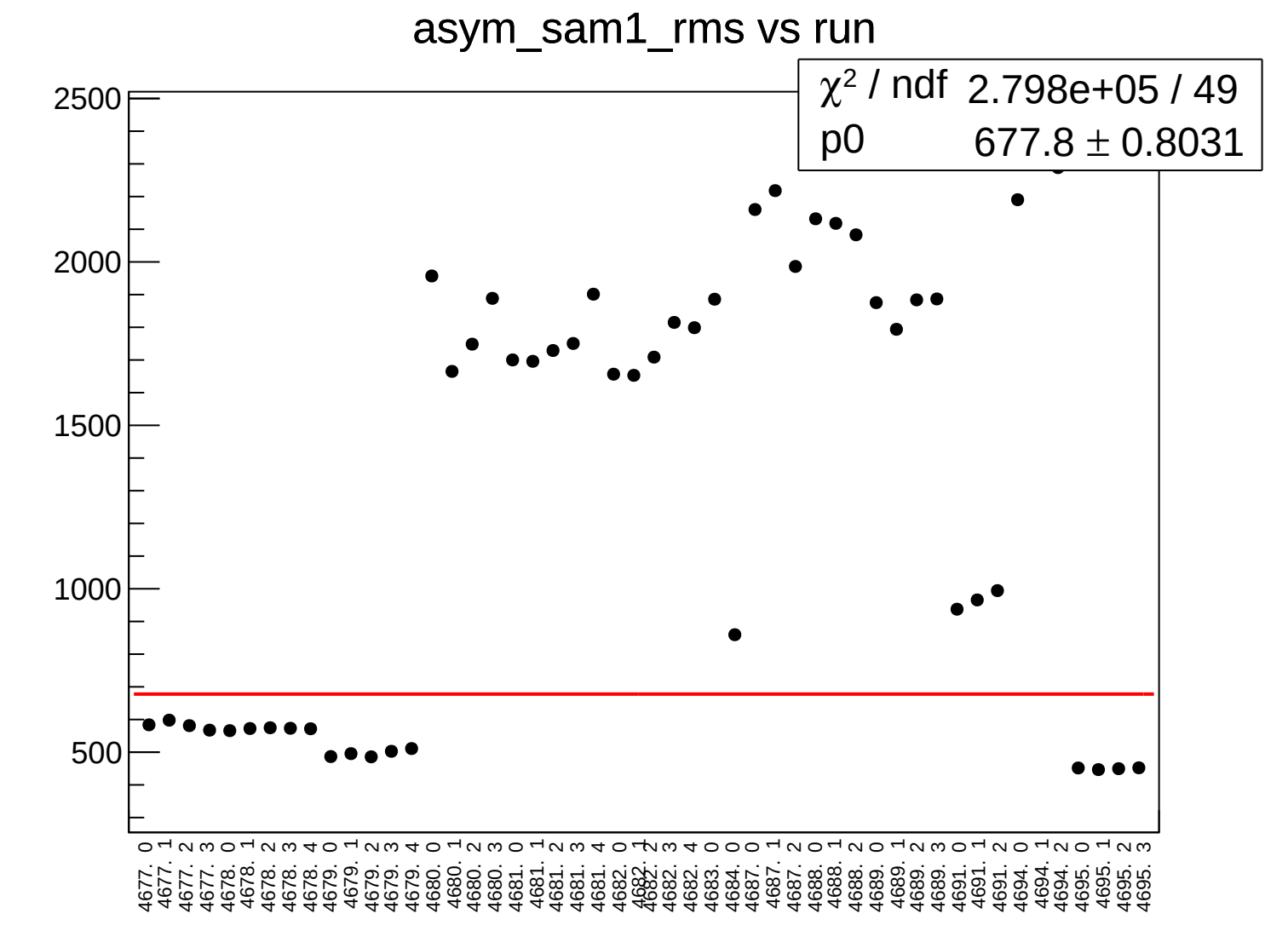

diff_bpm0l01Y_mean vs run
χ^2 / ndf 57.1 / 49
p0 0.9813 ± 3.78
100
50
0
−50
−100
pull
Entries 50
Mean 180.2
Std Dev 157.7
2
1
0
−1
−2

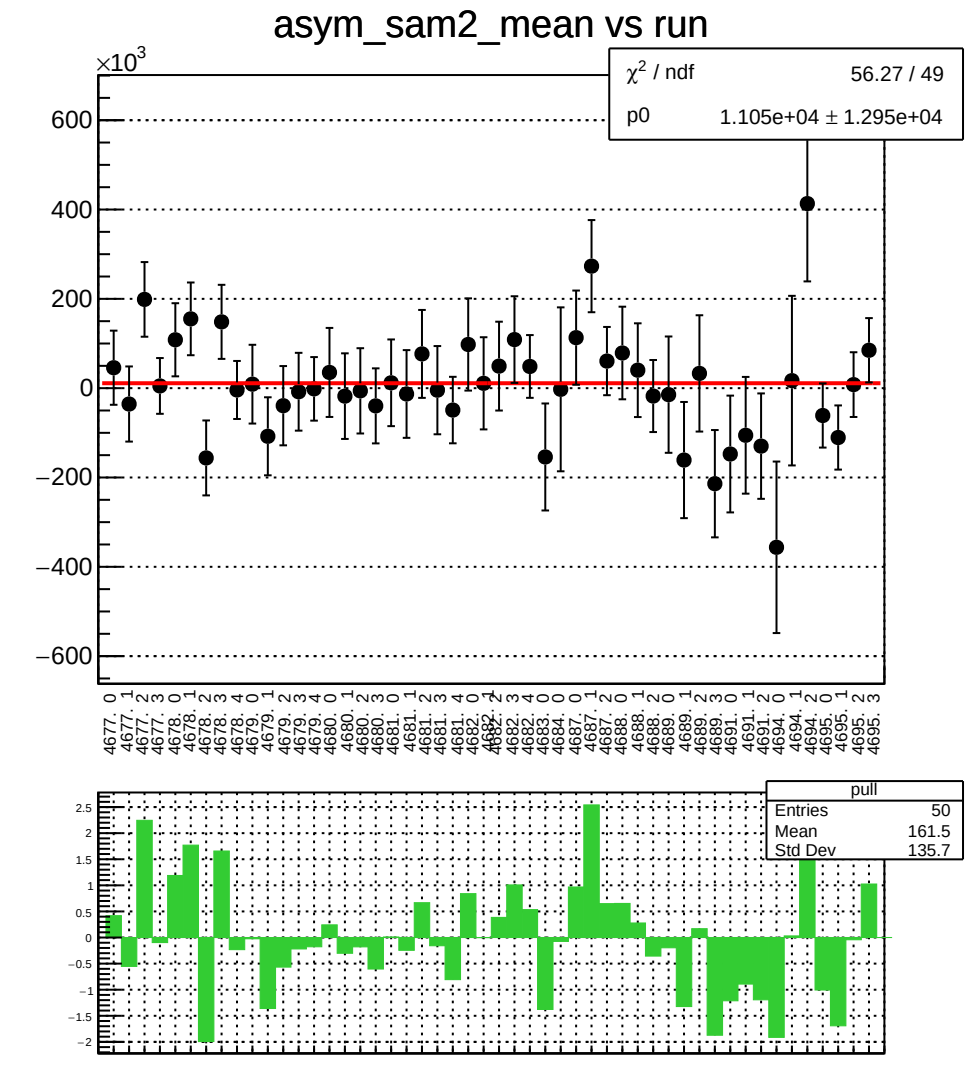

pull1D
Entries 50
Mean 0.02184
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

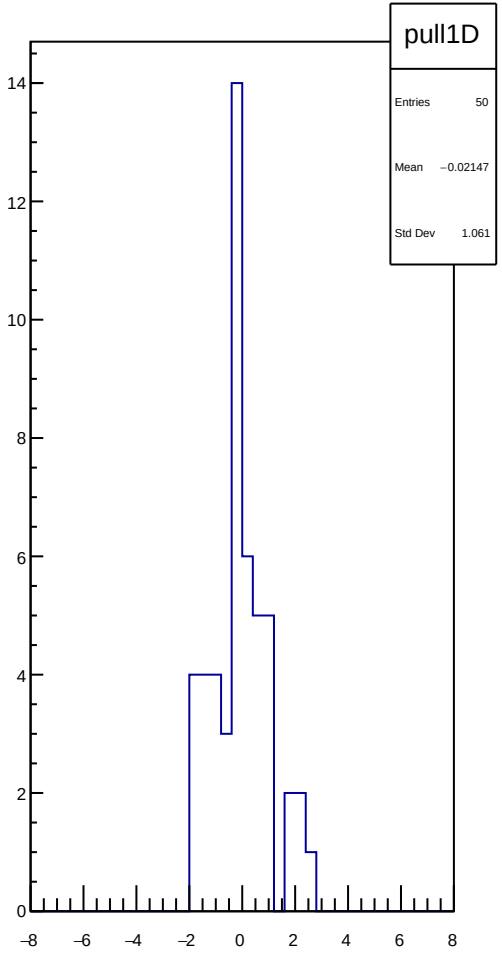

diff_bpm0l01Y_rms vs run
χ² / ndf 821.3 / 49
p0 2661 ± 2.673
3000
2900
2800
2700
2600
2500
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

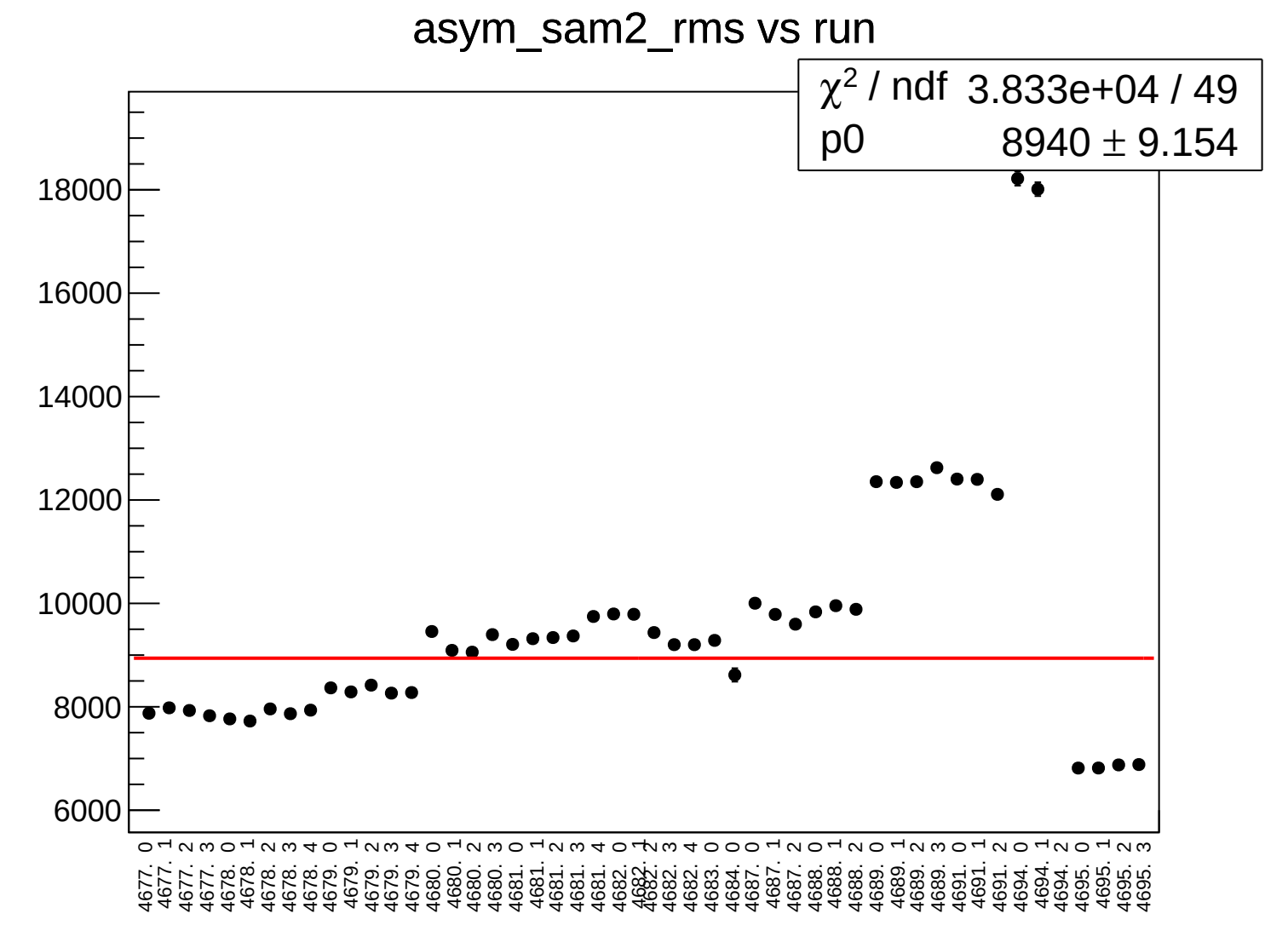

asym_sam1_mean vs run
χ^2 / ndf 42.79 / 49
p0 1238 ± 1136
60000
40000
20000
0
−20000
−40000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 11.51
Std Dev 15.71
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

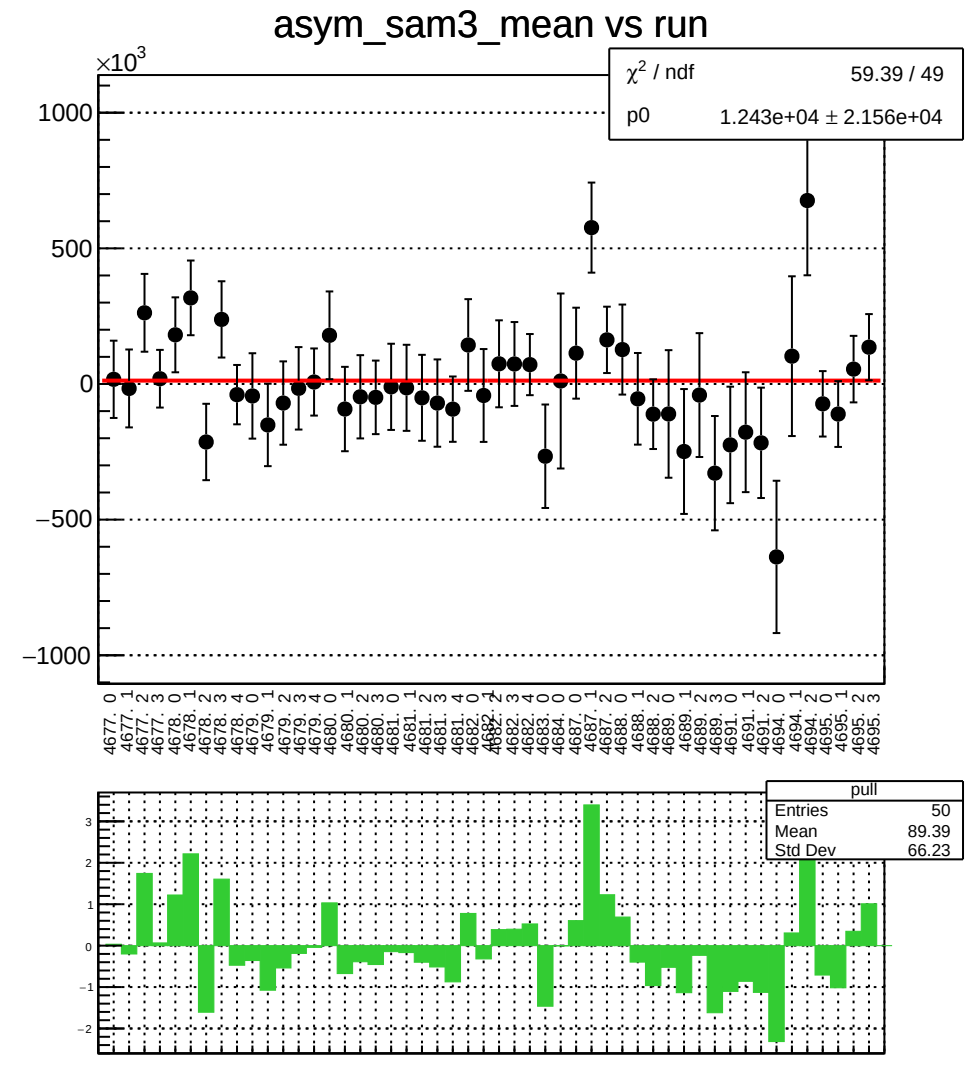

pull1D
Entries 50
Mean 0.09702
Std Dev 0.9199
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

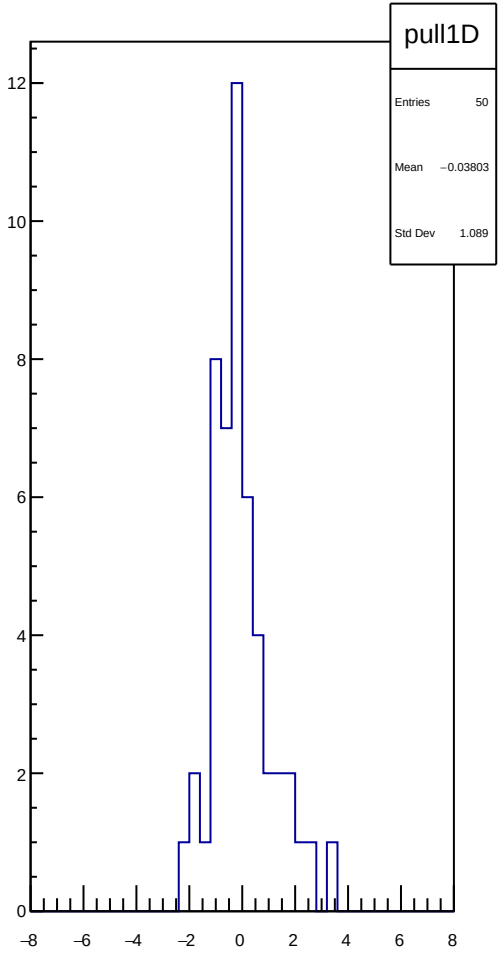

asym_sam1_rms vs run
χ² / ndf 2.798e+05 / 49
p0 677.8 ± 0.8031
2500
2000
1500
1000
500
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

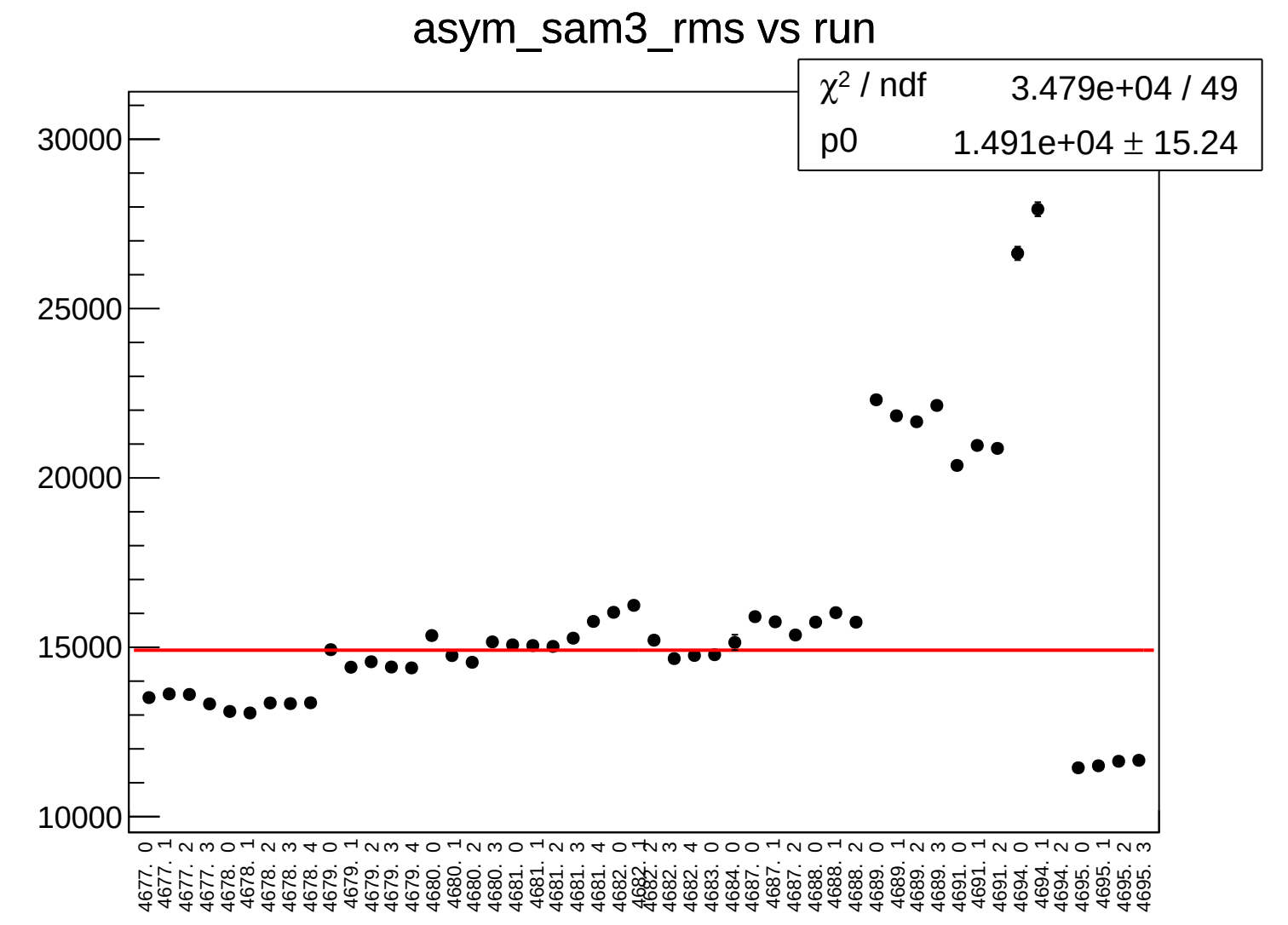

asym_sam2_mean vs run
×10^3
χ² / ndf 56.27 / 49
p0 1.105e+04 ± 1.295e+04
600
400
200
0
−200
−400
−600
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 161.5
Std Dev 135.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

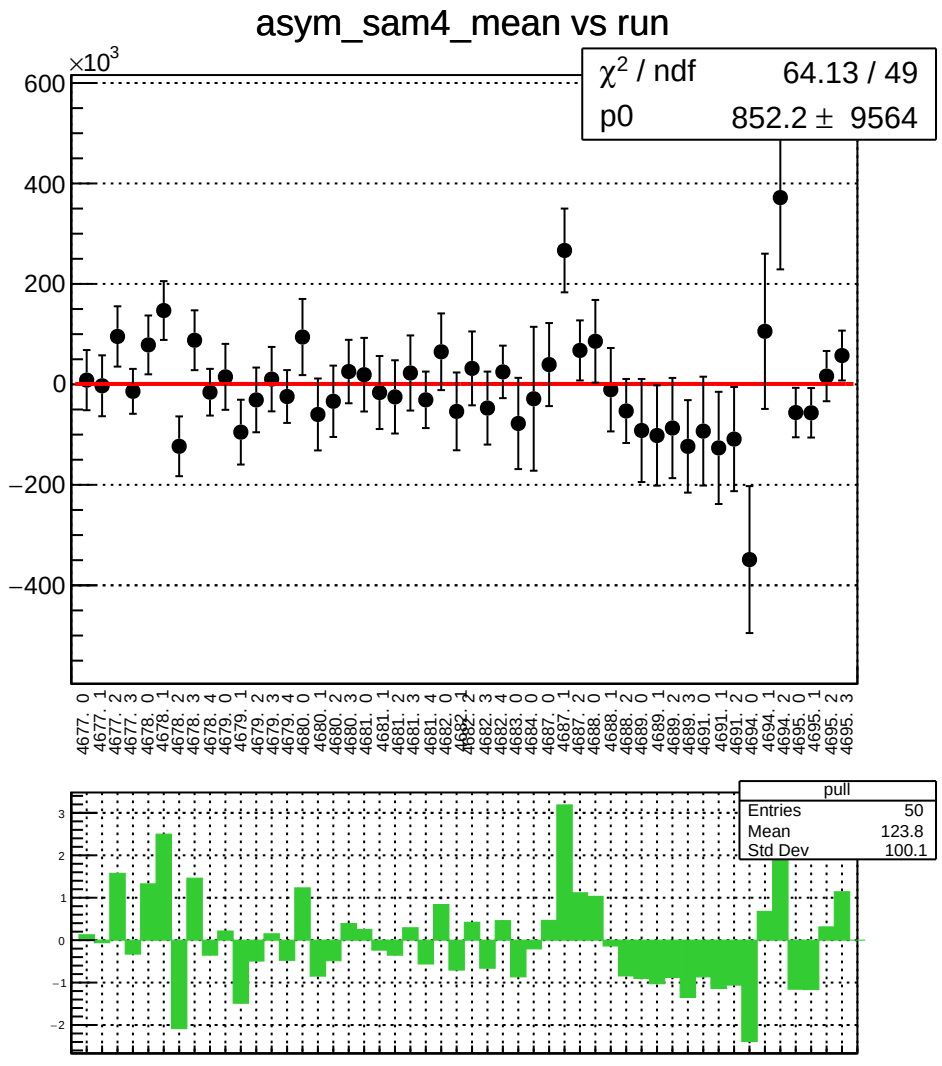

pull1D
Entries 50
Mean −0.02147
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

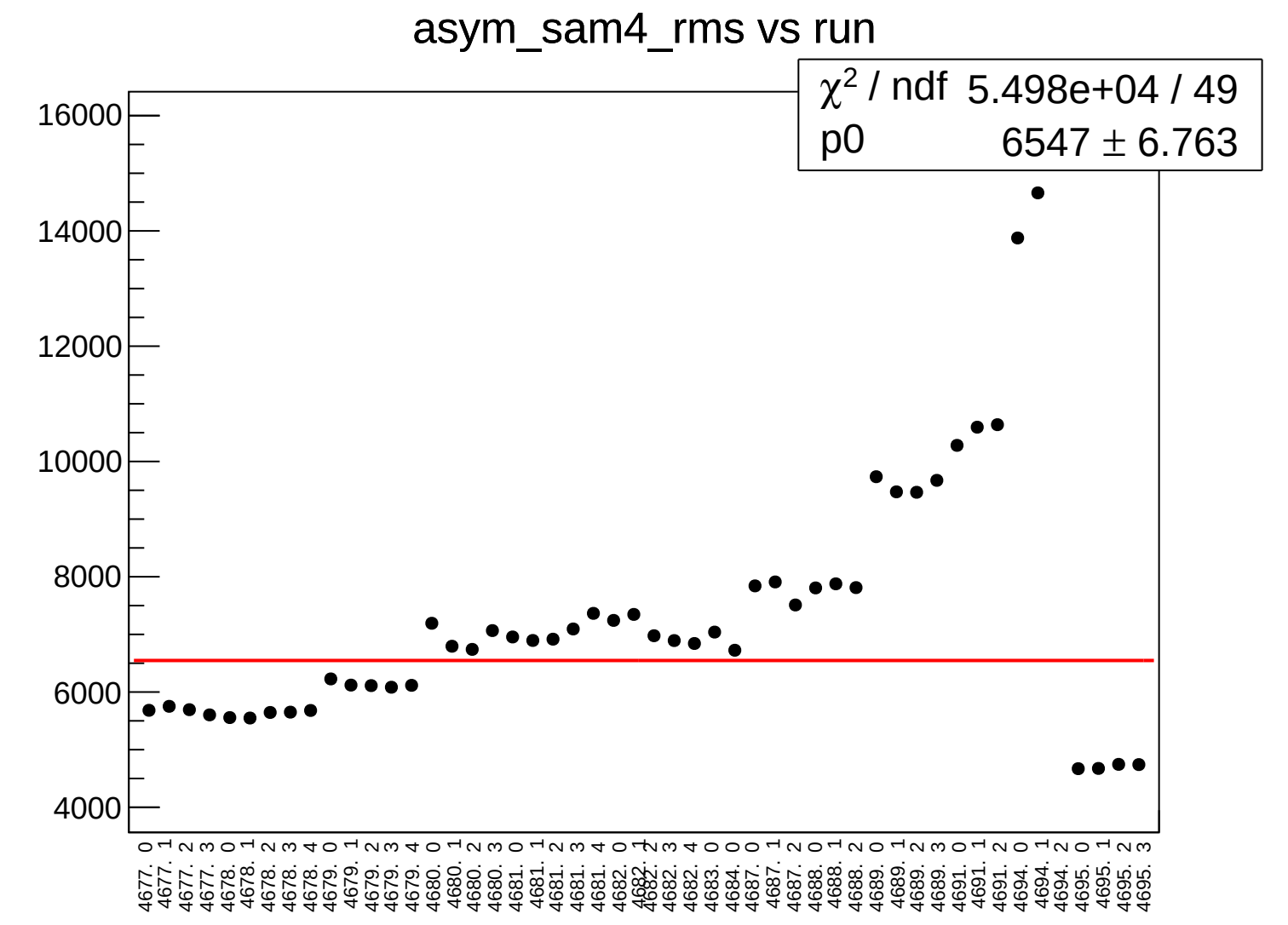

asym_sam2_rms vs run
χ² / ndf 3.833e+04 / 49
p0 8940 ± 9.154
18000
16000
14000
12000
10000
8000
6000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

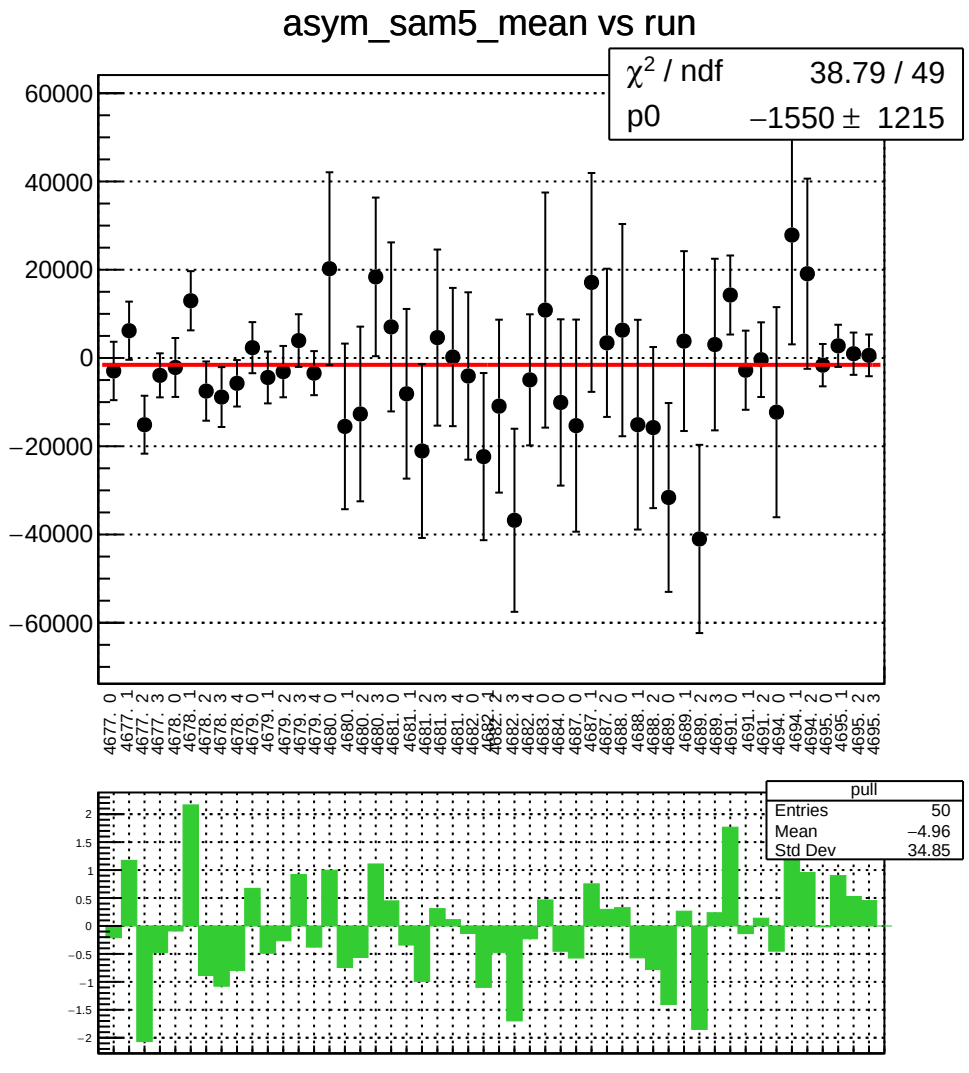

asym_sam3_mean vs run
×10^3
χ² / ndf 59.39 / 49
p0 1.243e+04 ± 2.156e+04
1000
500
0
−500
−1000
pull
Entries 50
Mean 89.39
Std Dev 66.23
3
2
1
0
−1
−2

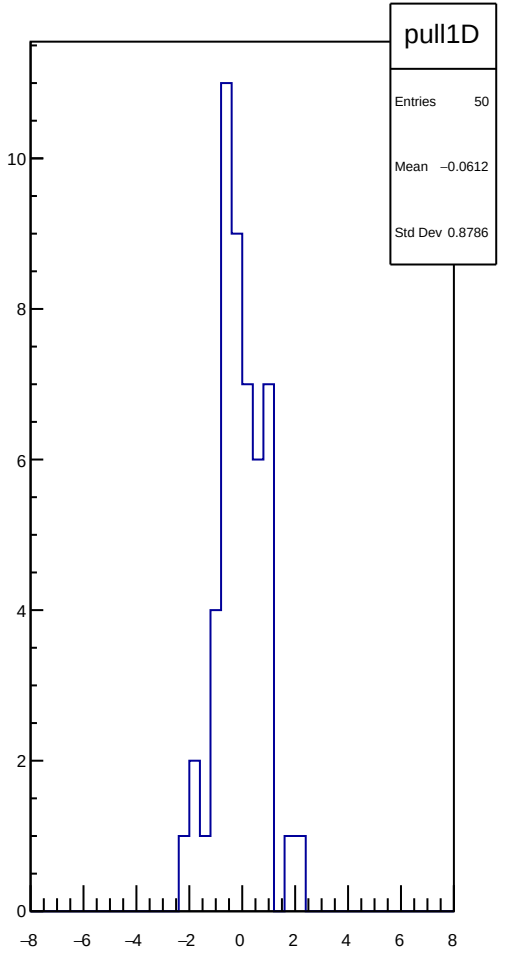

pull1D
Entries 50
Mean −0.03803
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

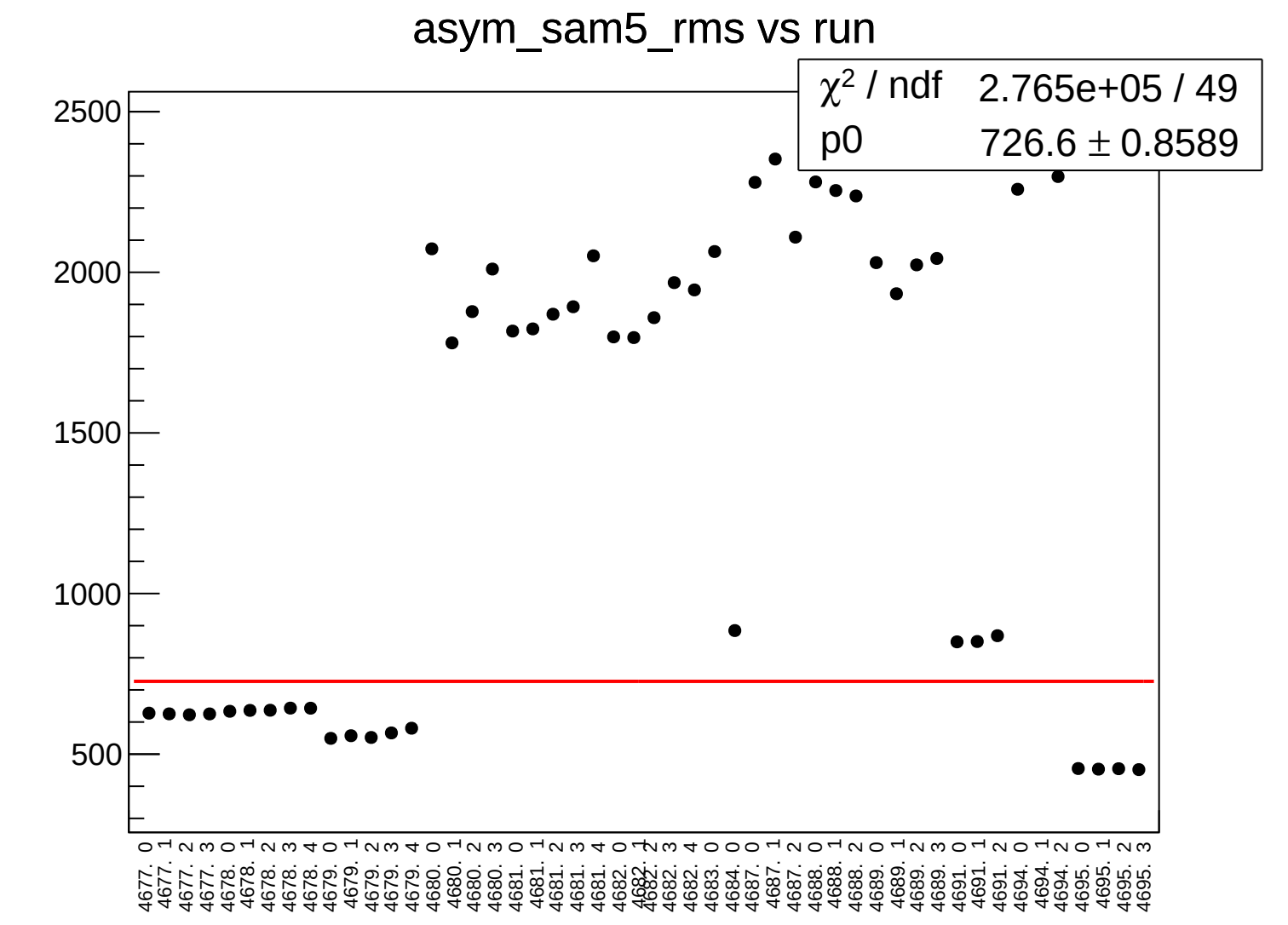

asym_sam3_rms vs run
χ² / ndf 3.479e+04 / 49
p0 1.491e+04 ± 15.24
30000
25000
20000
15000
10000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

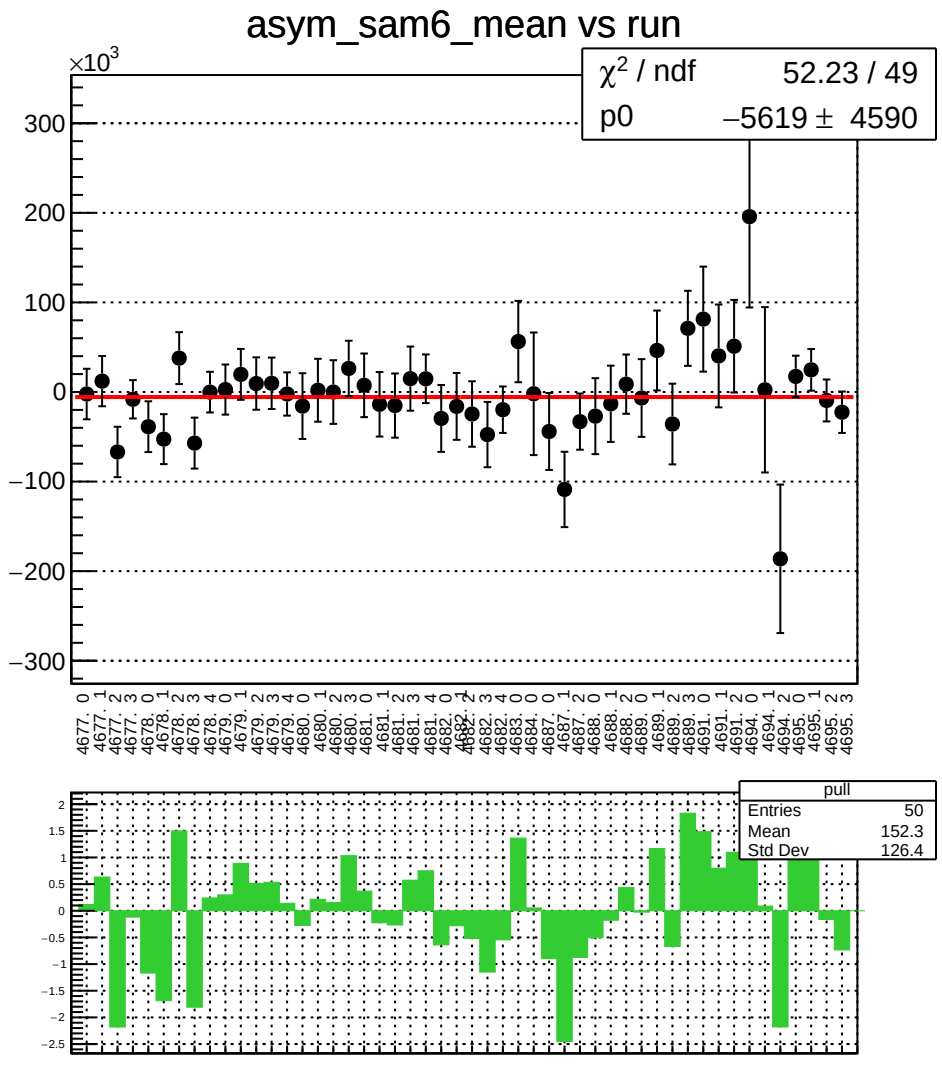

asym_sam4_mean vs run
×10^3
χ² / ndf 64.13 / 49
p0 852.2 ± 9564
600
400
200
0
−200
−400
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 123.8
Std Dev 100.1
3
2
1
0
−1
−2
pull1D
Entries 50
Mean −0.02712
Std Dev 1.132
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

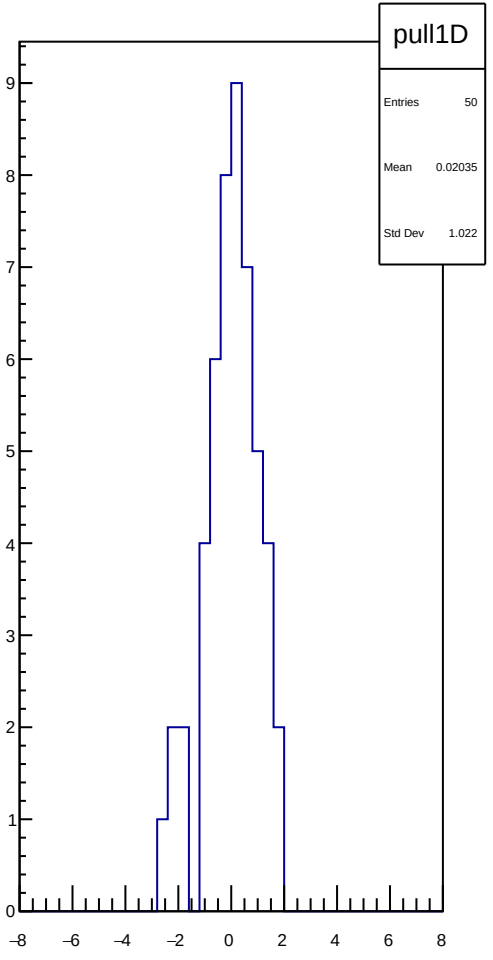

asym_sam4_rms vs run
χ² / ndf 5.498e+04 / 49
p0 6547 ± 6.763
16000
14000
12000
10000
8000
6000
4000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

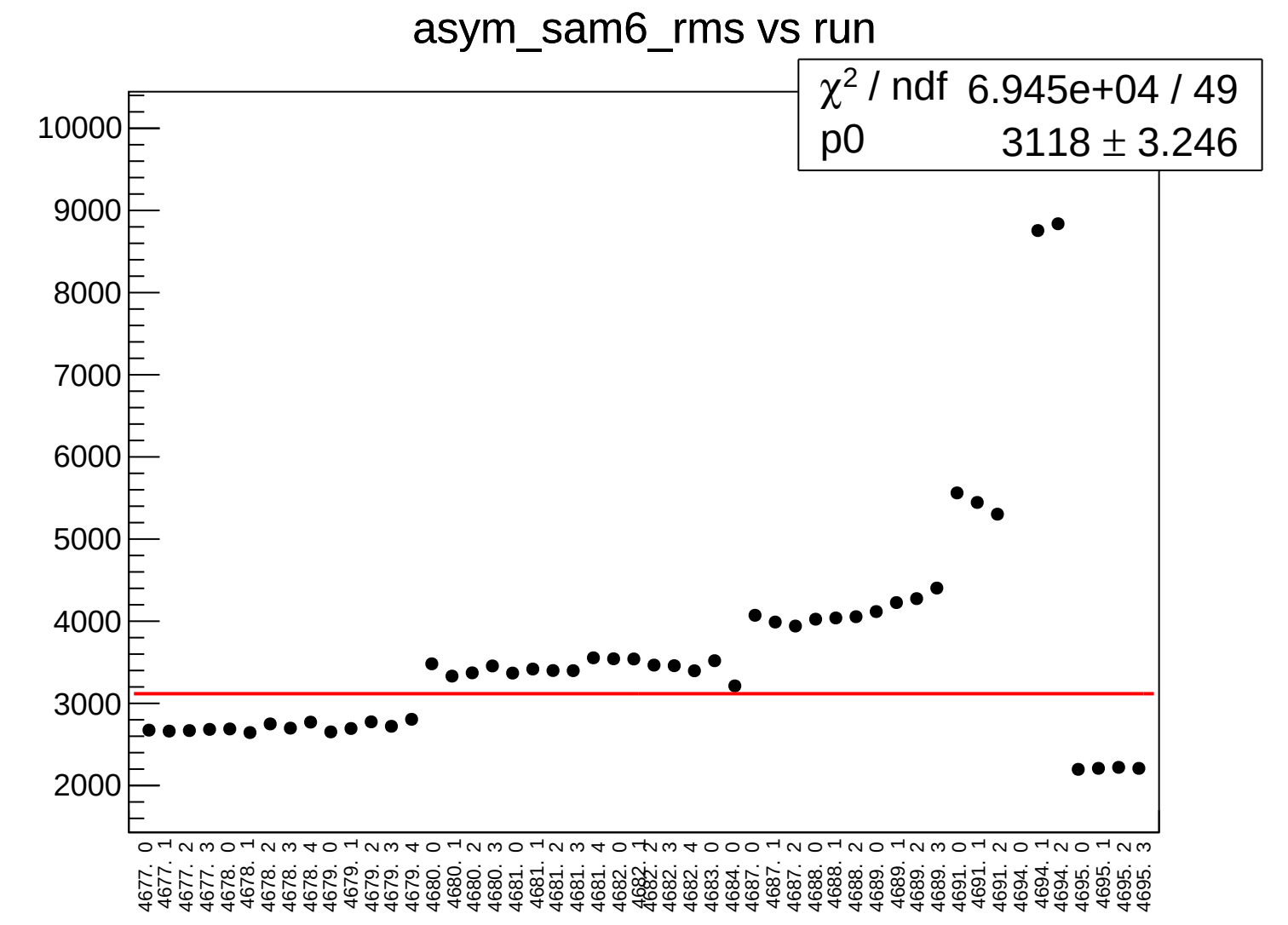

asym_sam5_mean vs run
χ² / ndf 38.79 / 49
p0 −1550 ± 1215
pull
Entries 50
Mean −4.96
Std Dev 34.85

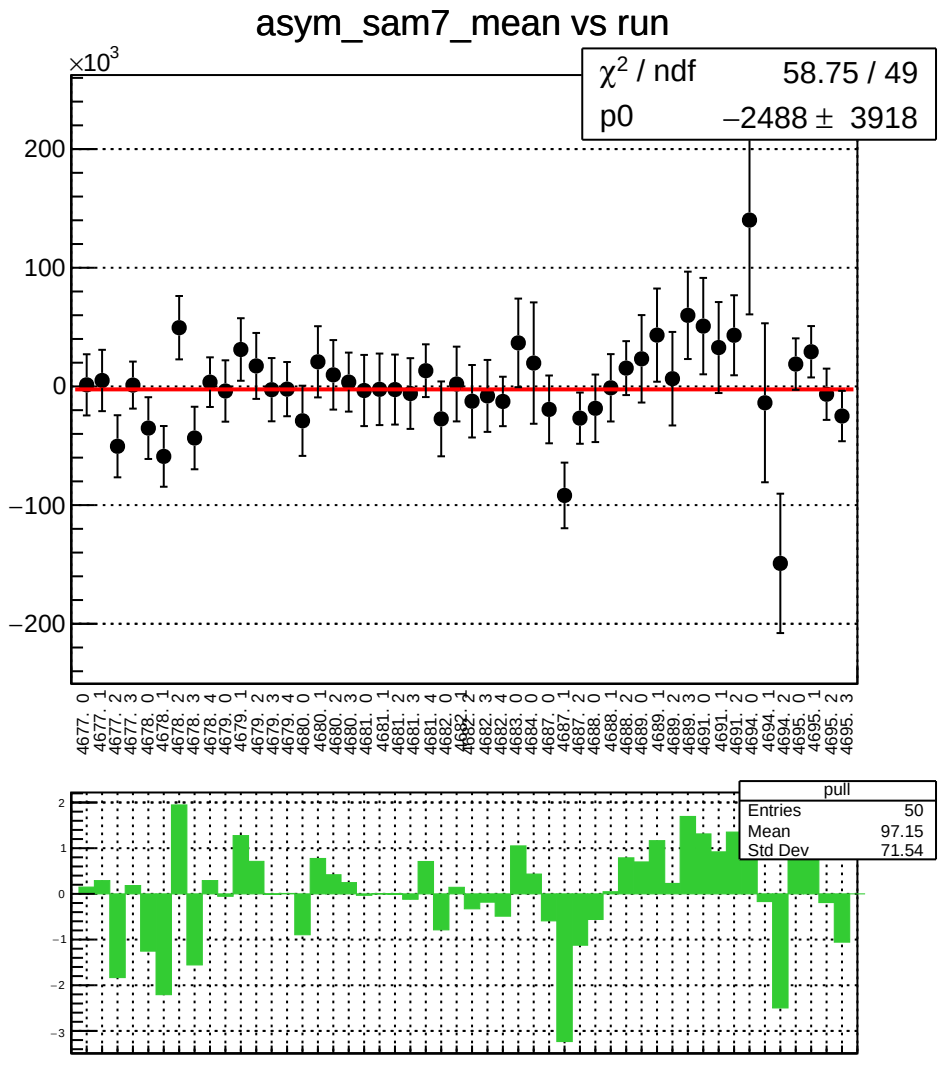

pull1D
Entries 50
Mean −0.0612
Std Dev 0.8786

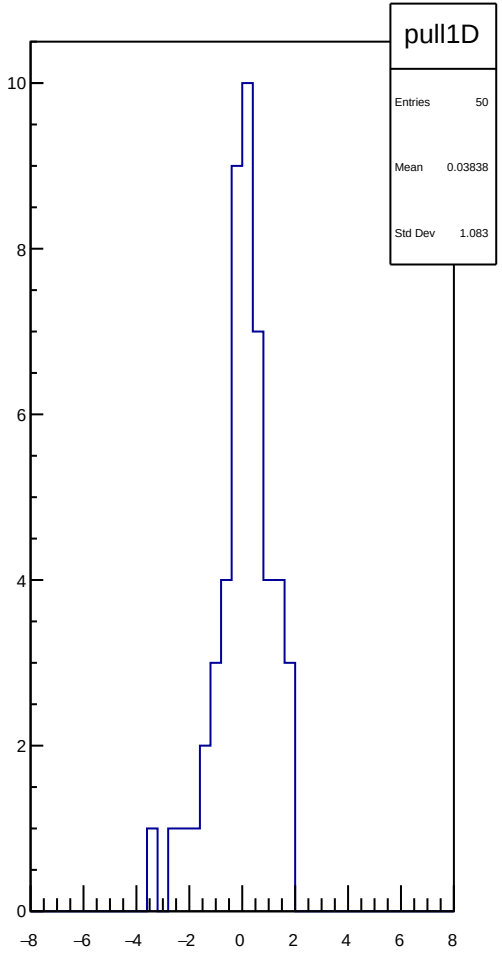

asym_sam5_rms vs run
χ² / ndf 2.765e+05 / 49
p0 726.6 ± 0.8589
2500
2000
1500
1000
500
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

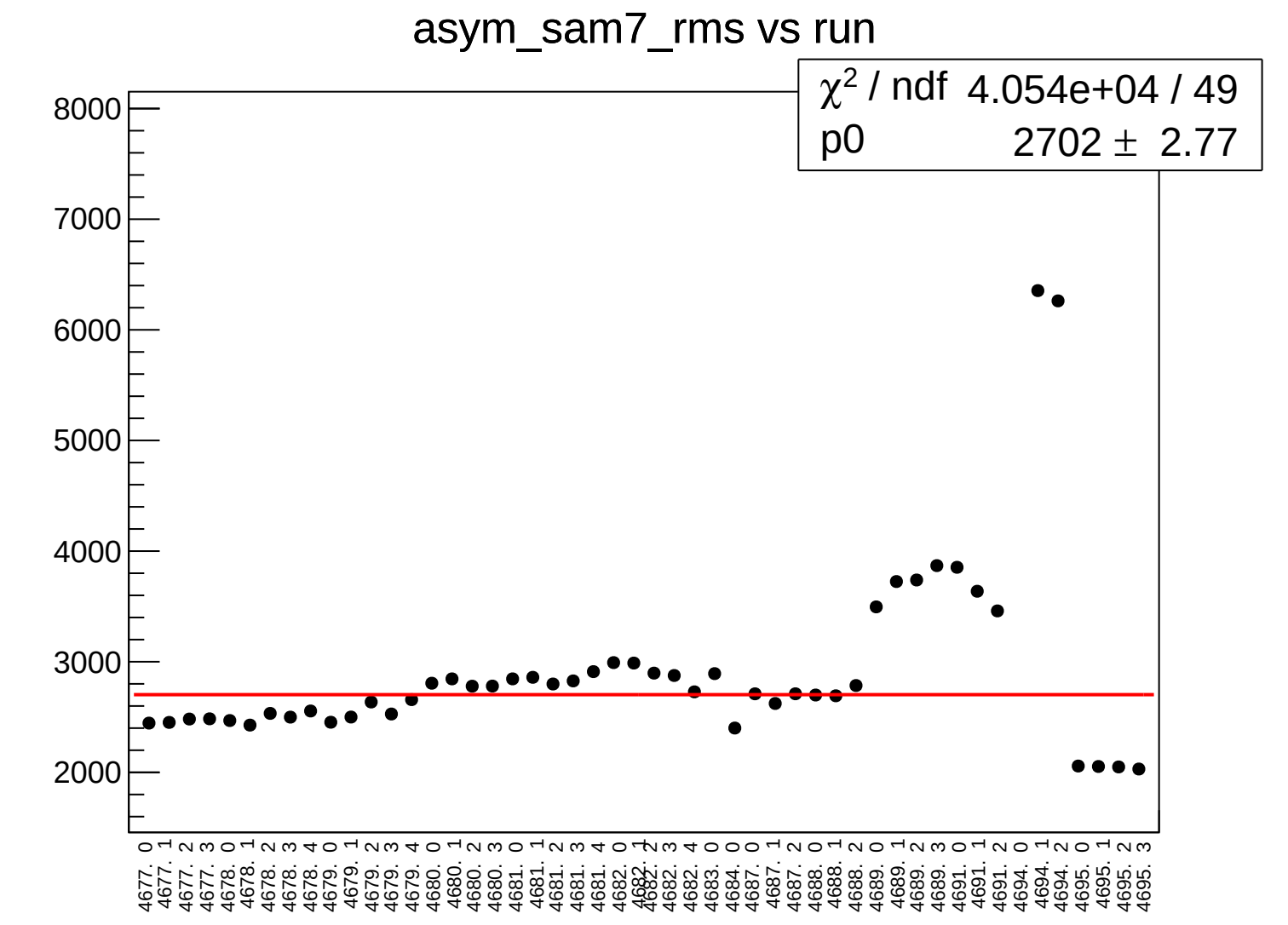

asym_sam6_mean vs run
×10^3
χ² / ndf 52.23 / 49
p0 −5619 ± 4590
300
200
100
0
−100
−200
−300
pull
Entries 50
Mean 152.3
Std Dev 126.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

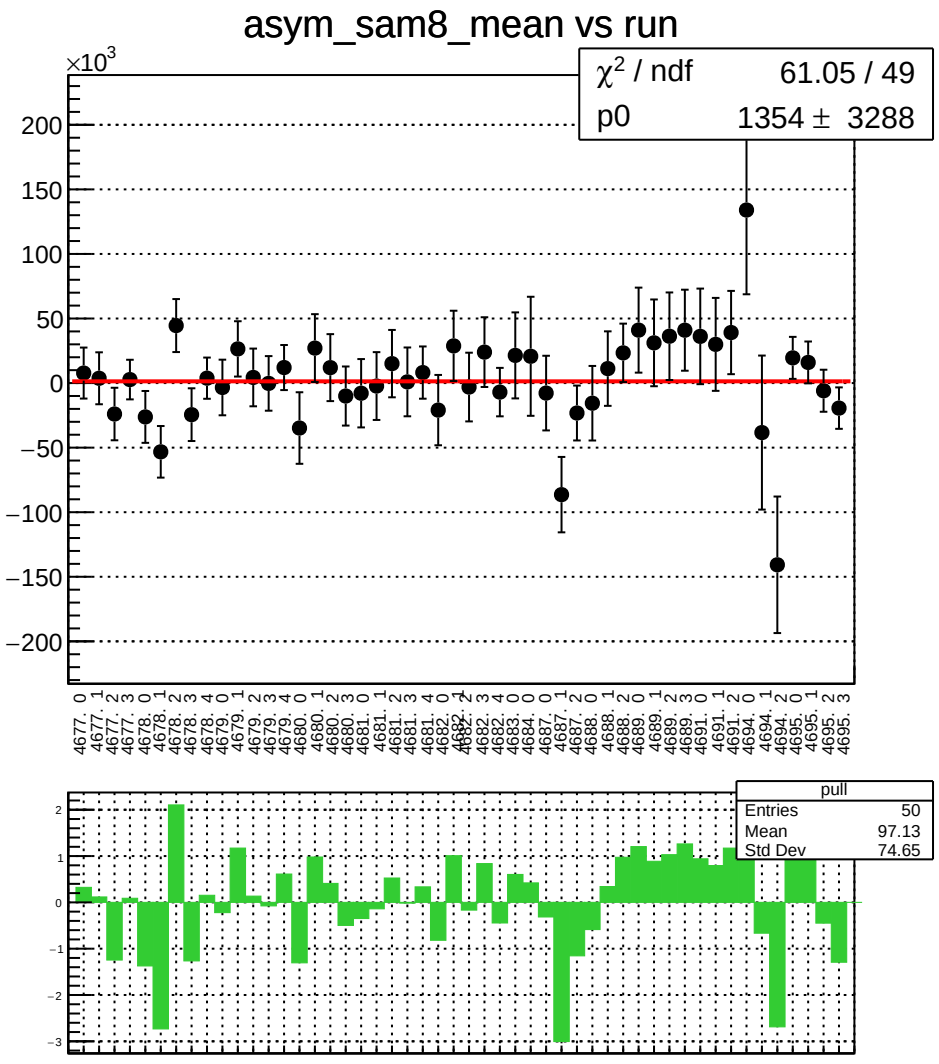

pull1D
Entries 50
Mean 0.02035
Std Dev 1.022
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

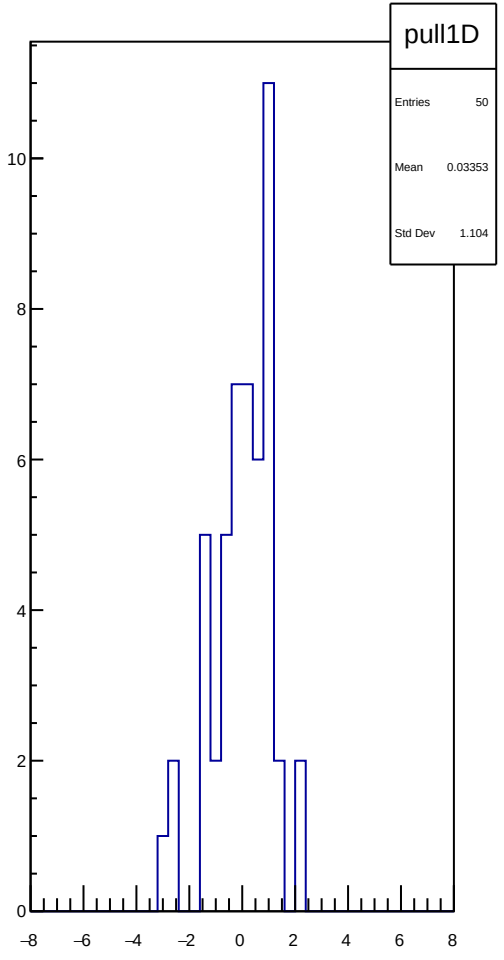

asym_sam6_rms vs run
χ² / ndf 6.945e+04 / 49
p0 3118 ± 3.246
10000
9000
8000
7000
6000
5000
4000
3000
2000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

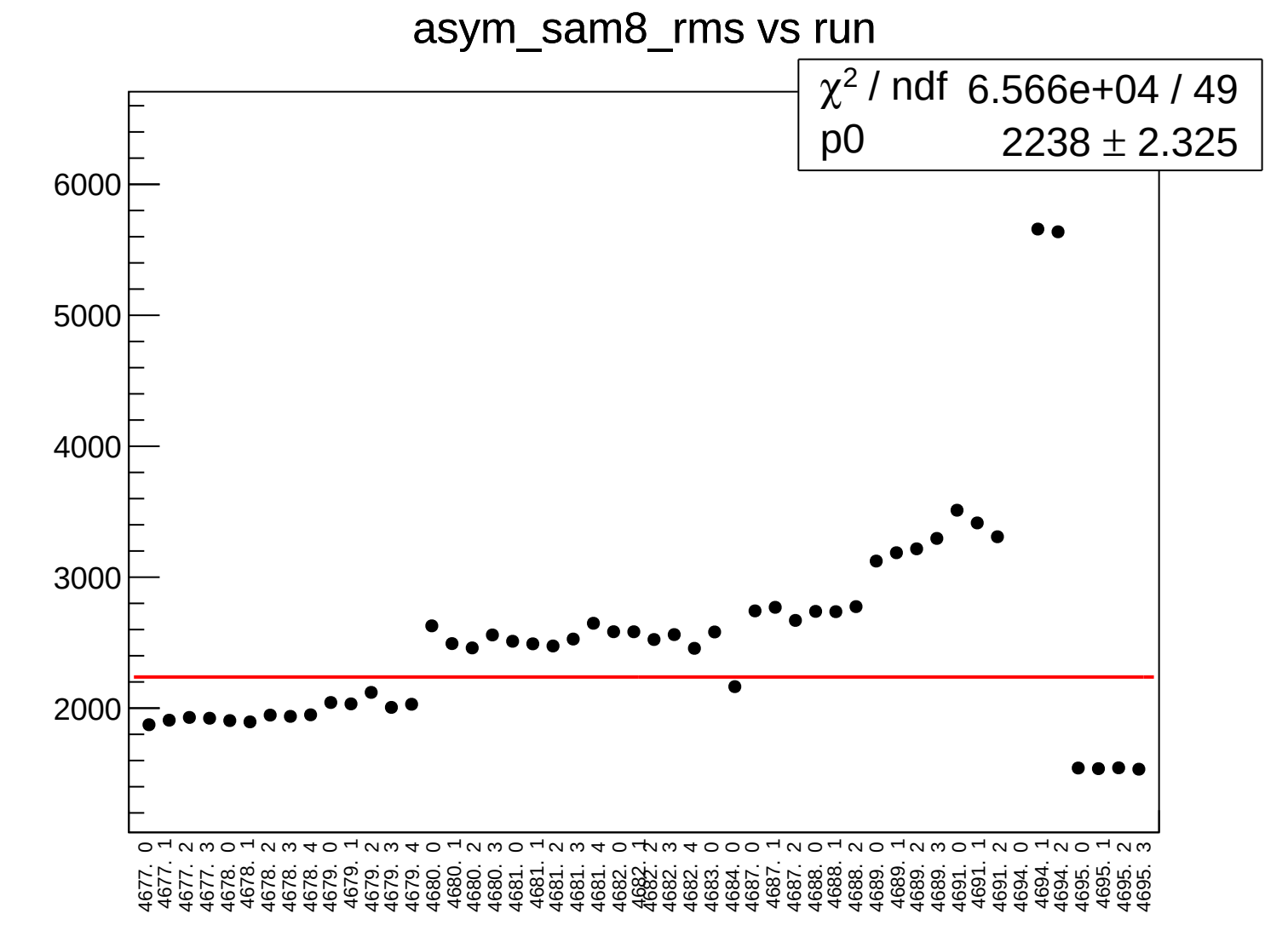

asym_sam7_mean vs run
×10^3
χ² / ndf 58.75 / 49
p0 −2488 ± 3918
200
100
0
−100
−200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 97.15
Std Dev 71.54
2
1
0
−1
−2
−3

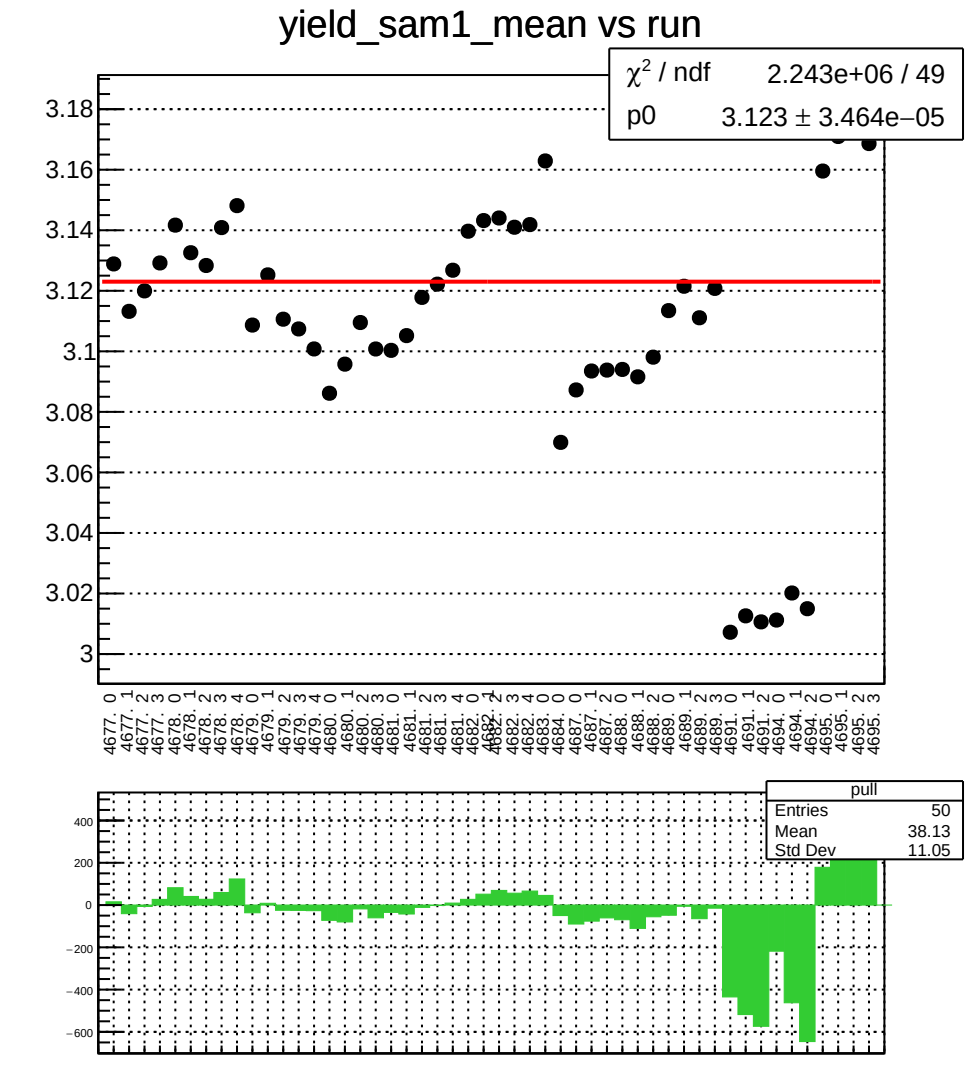

pull1D
Entries 50
Mean 0.03838
Std Dev 1.083
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

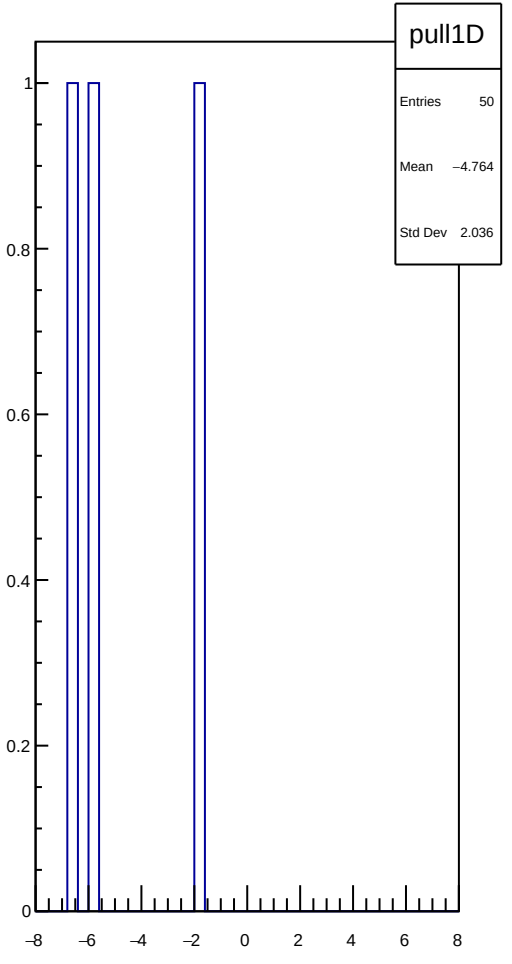

asym_sam7_rms vs run
χ² / ndf 4.054e+04 / 49
p0 2702 ± 2.77
8000
7000
6000
5000
4000
3000
2000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

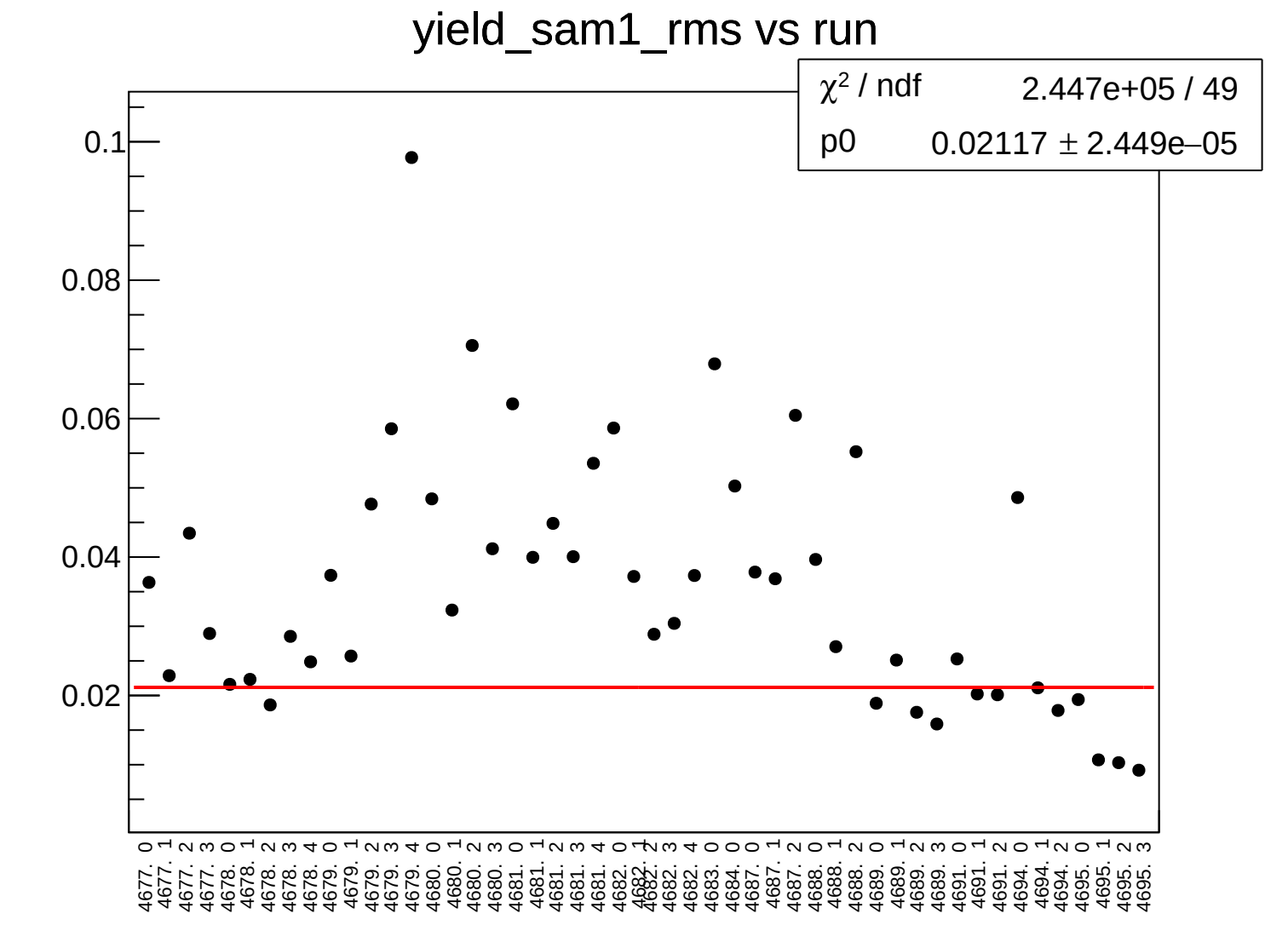

asym_sam8_mean vs run
×10^3
χ² / ndf 61.05 / 49
p0 1354 ± 3288
200
150
100
50
0
−50
−100
−150
−200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 97.13
Std Dev 74.65
2
1
0
−1
−2
−3

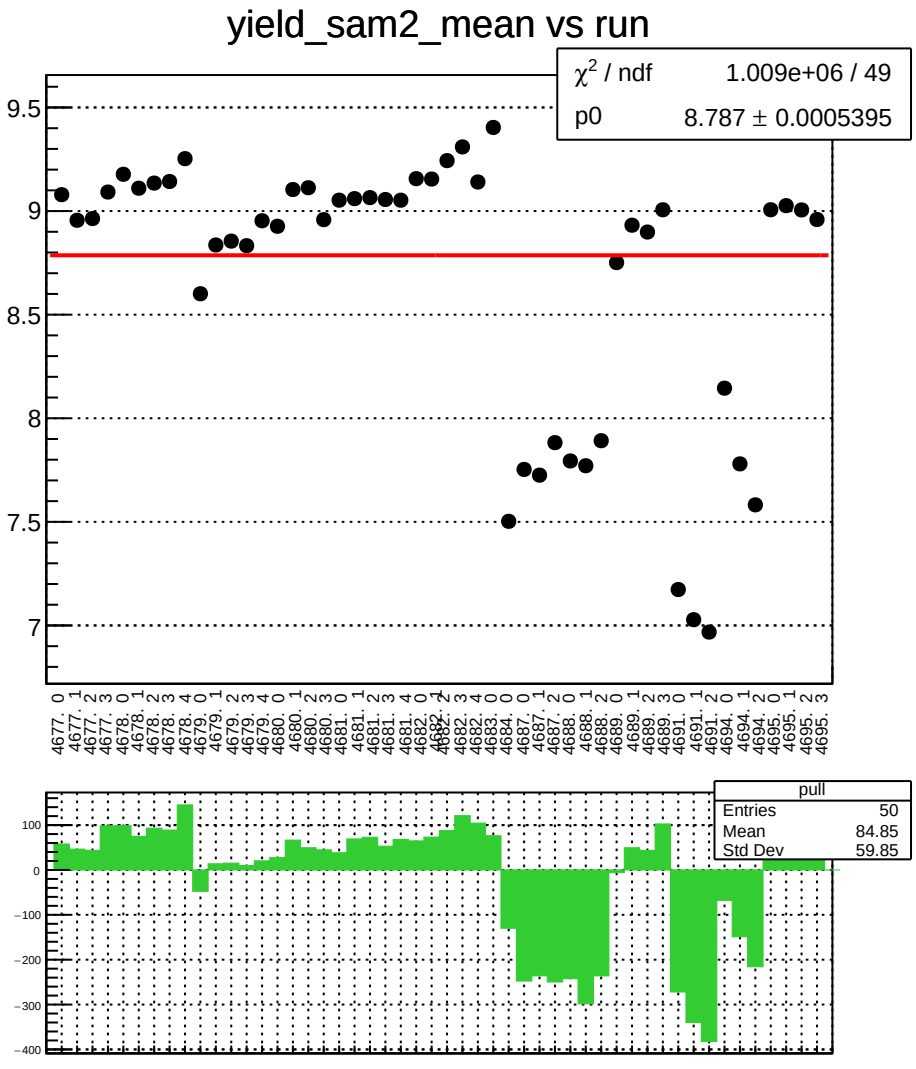

pull1D
Entries 50
Mean 0.03353
Std Dev 1.104
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

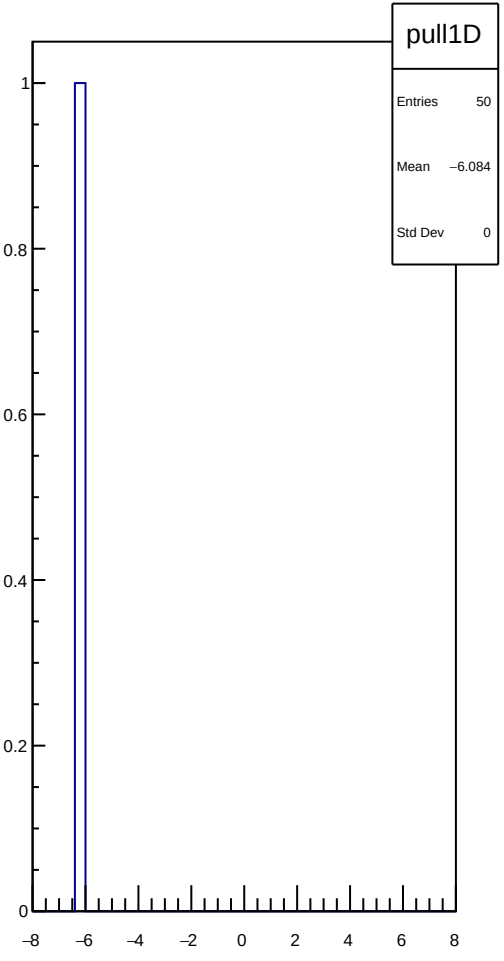

asym_sam8_rms vs run
χ² / ndf 6.566e+04 / 49
p0 2238 ± 2.325
6000
5000
4000
3000
2000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

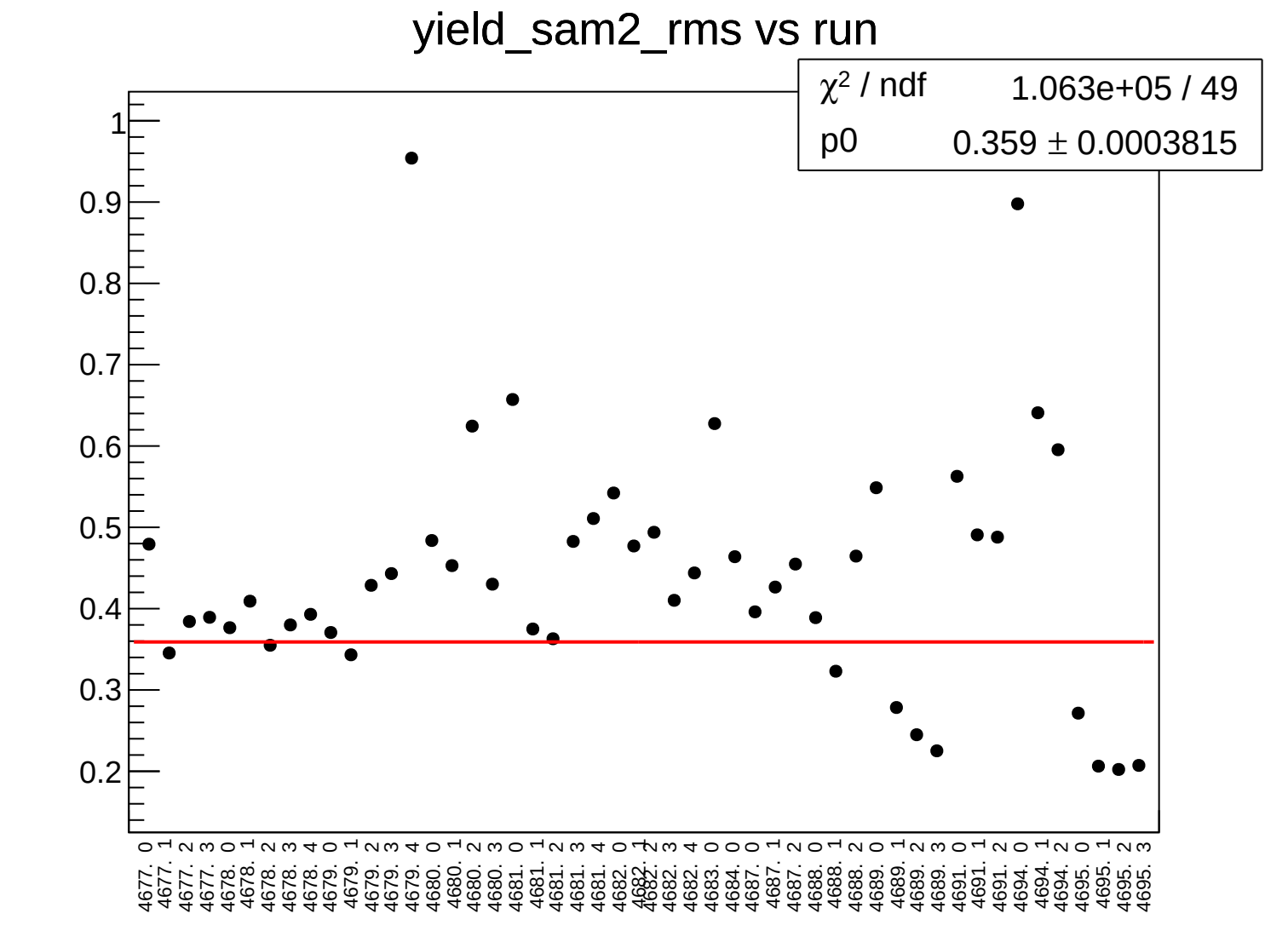

yield_sam1_mean vs run
χ² / ndf 2.243e+06 / 49
p0 3.123 ± 3.464e−05
3.18
3.16
3.14
3.12
3.1
3.08
3.06
3.04
3.02
3
pull
Entries 50
Mean 38.13
Std Dev 11.05
400
200
0
−200
−400
−600


pull1D
Entries 50
Mean −4.764
Std Dev 2.036
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 2.447e+05 / 49
p0 0.02117 ± 2.449e−05
0.1
0.08
0.06
0.04
0.02
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


yield_sam2_mean vs run
χ² / ndf 1.009e+06 / 49
p0 8.787 ± 0.0005395
pull
Entries 50
Mean 84.85
Std Dev 59.85


pull1D
Entries 50
Mean −6.084
Std Dev 0


yield_sam2_rms vs run
χ² / ndf 1.063e+05 / 49
p0 0.359 ± 0.0003815
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
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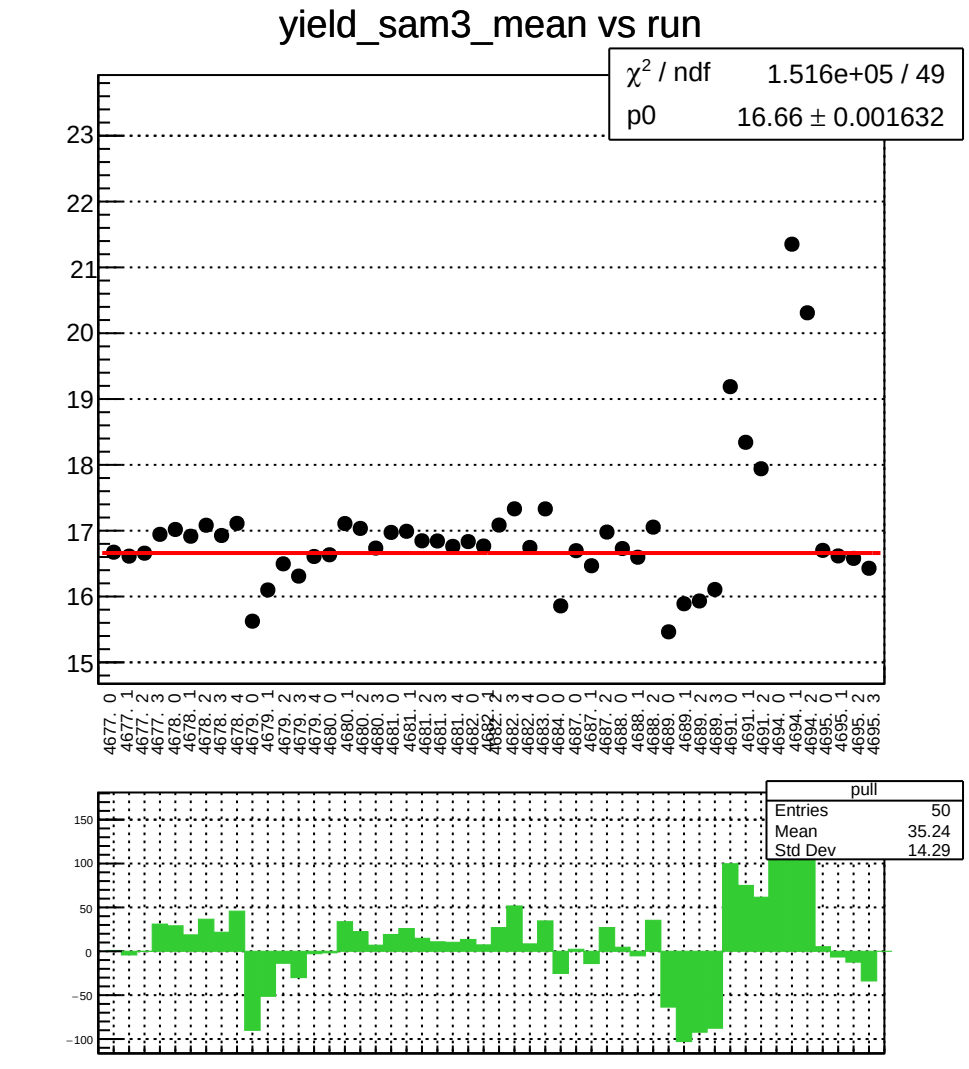
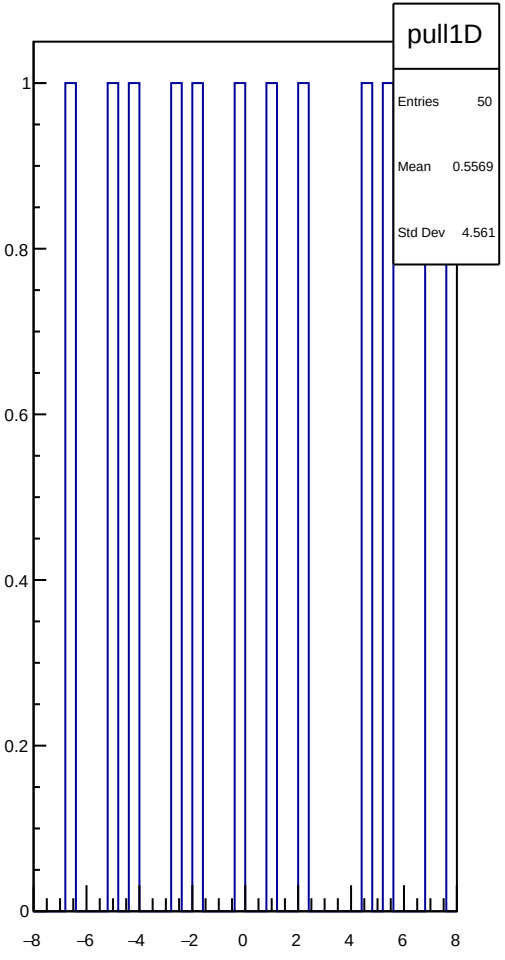
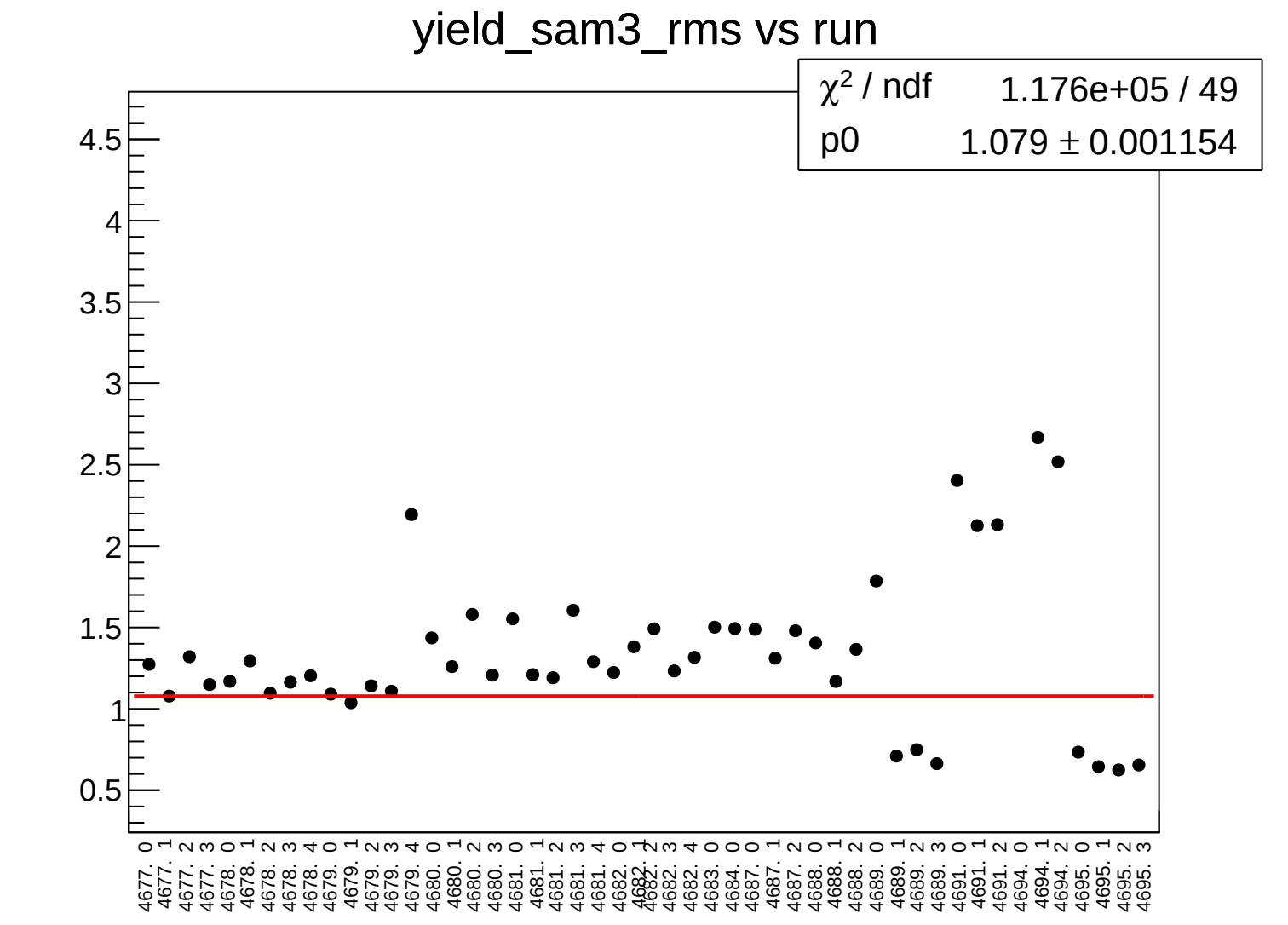
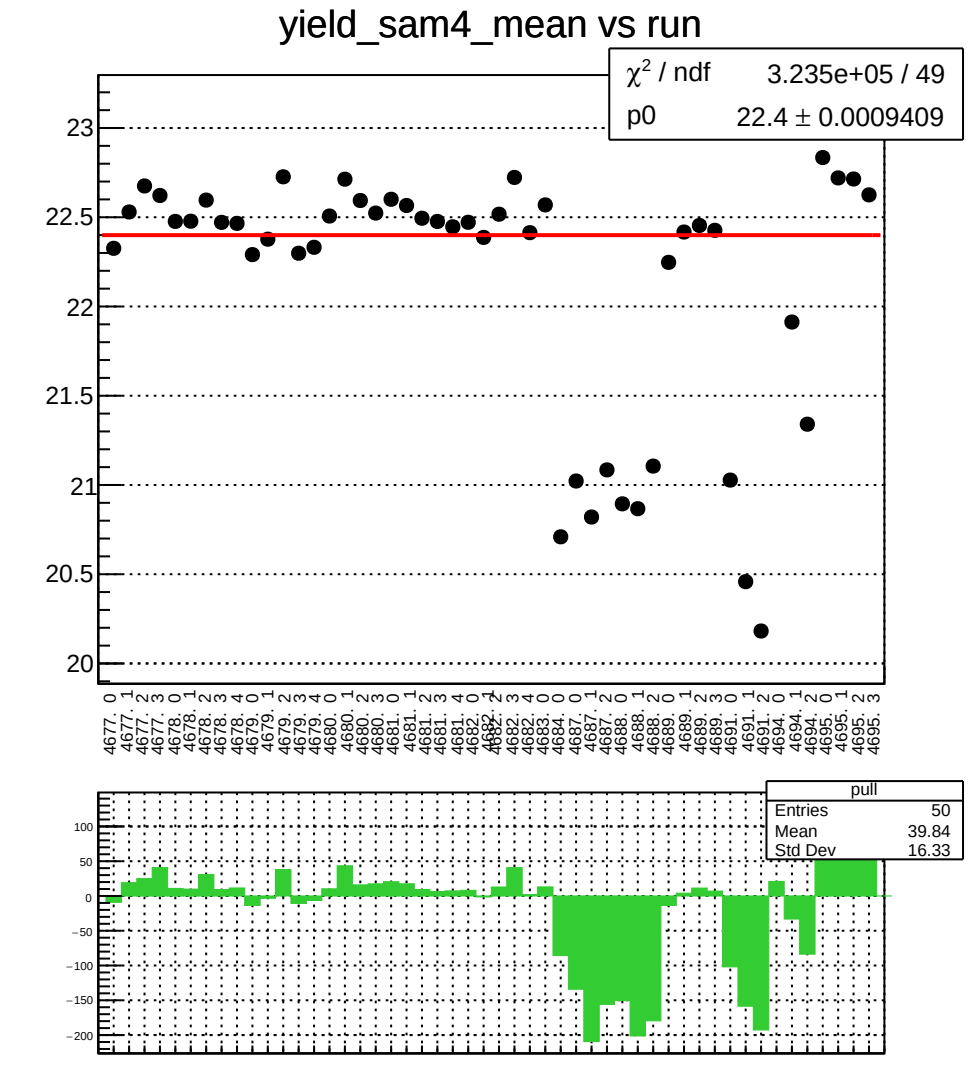
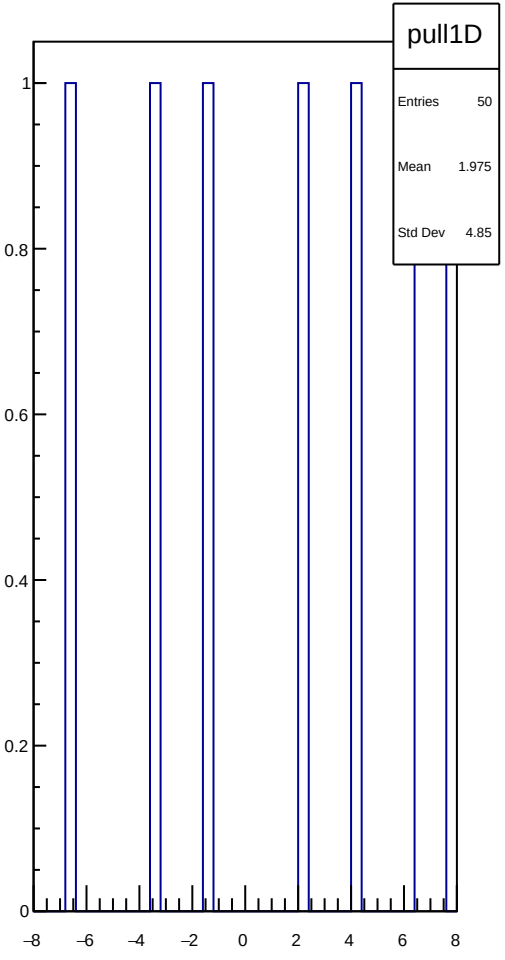
4695. 2
4695. 3

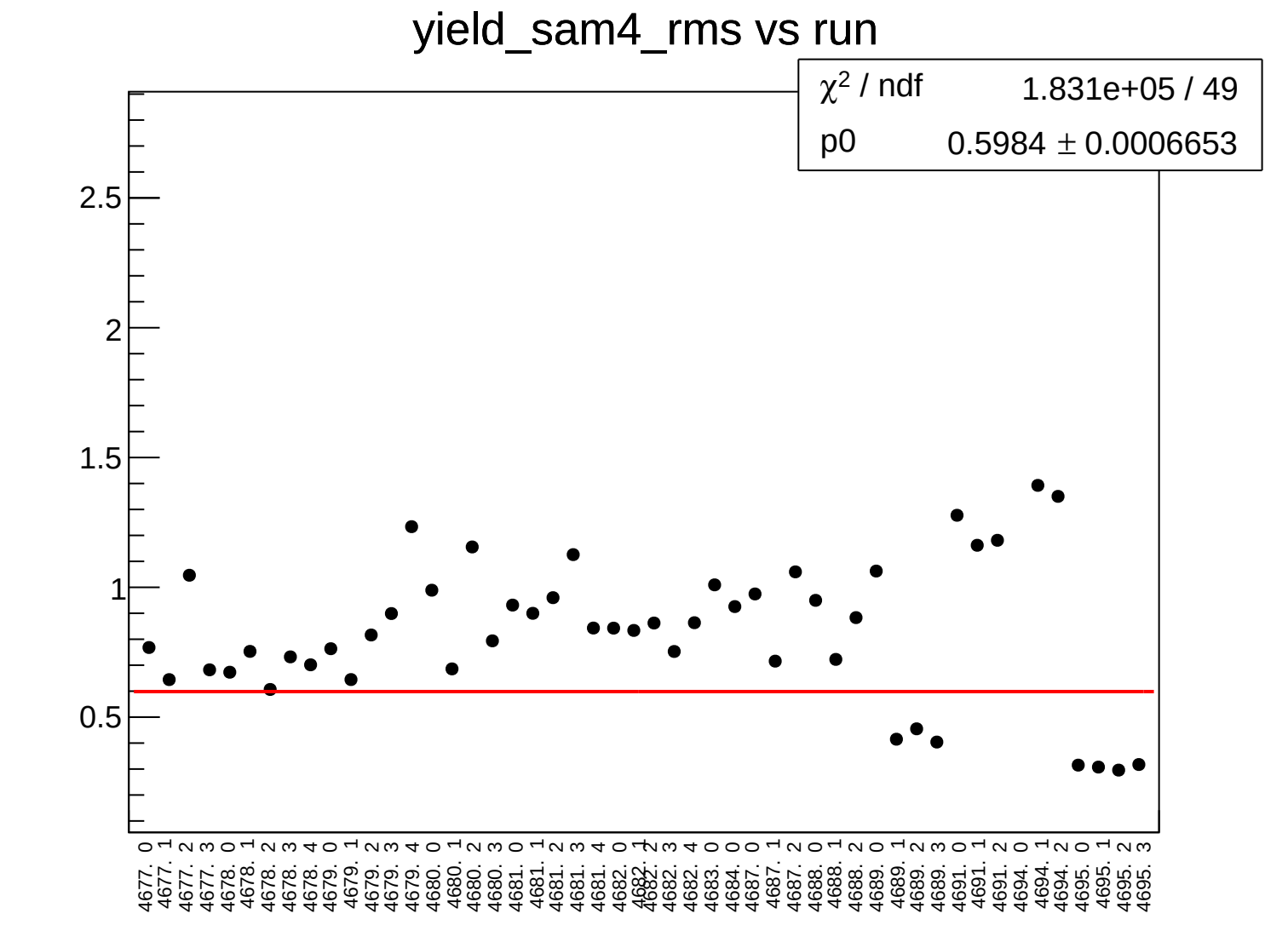

yield_sam3_mean vs run
χ² / ndf 1.516e+05 / 49
p0 16.66 ± 0.001632
pull
Entries 50
Mean 35.24
Std Dev 14.29

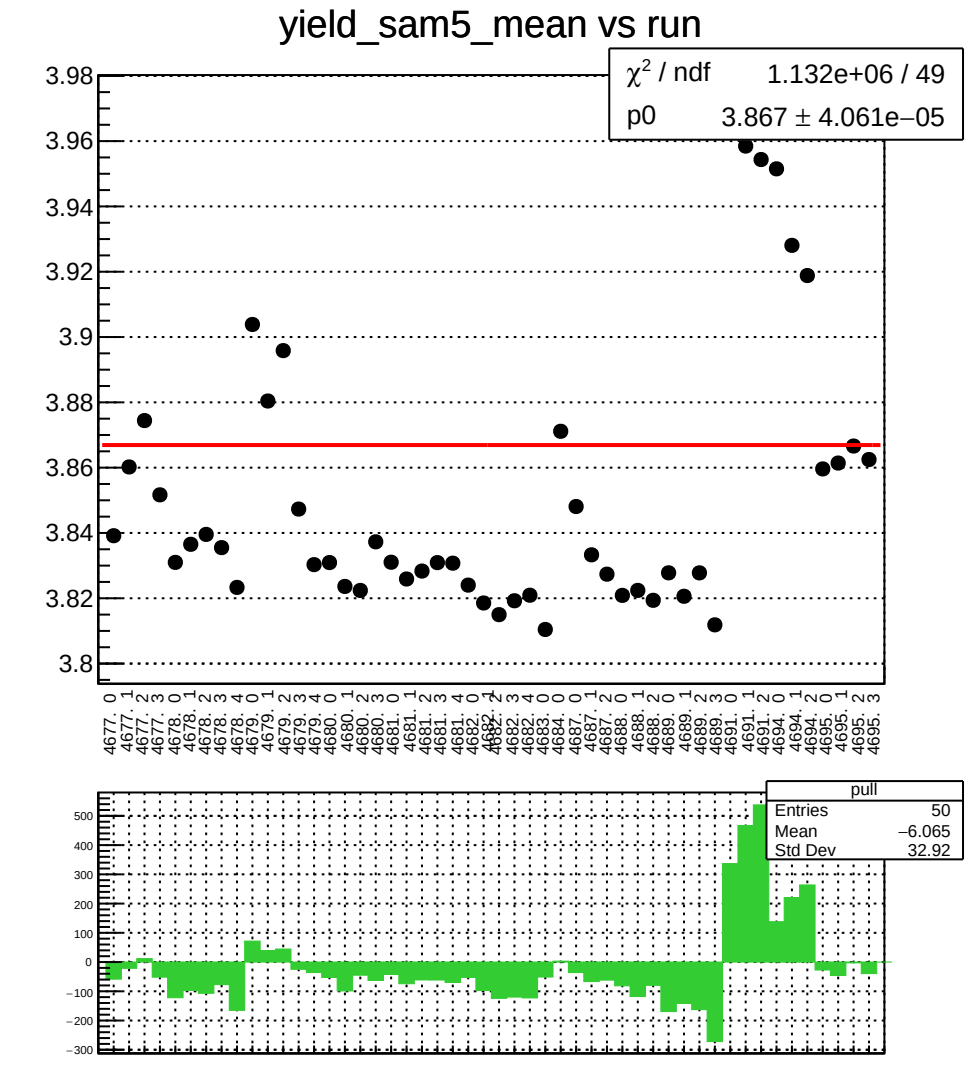

pull1D
Entries 50
Mean 0.5569
Std Dev 4.561

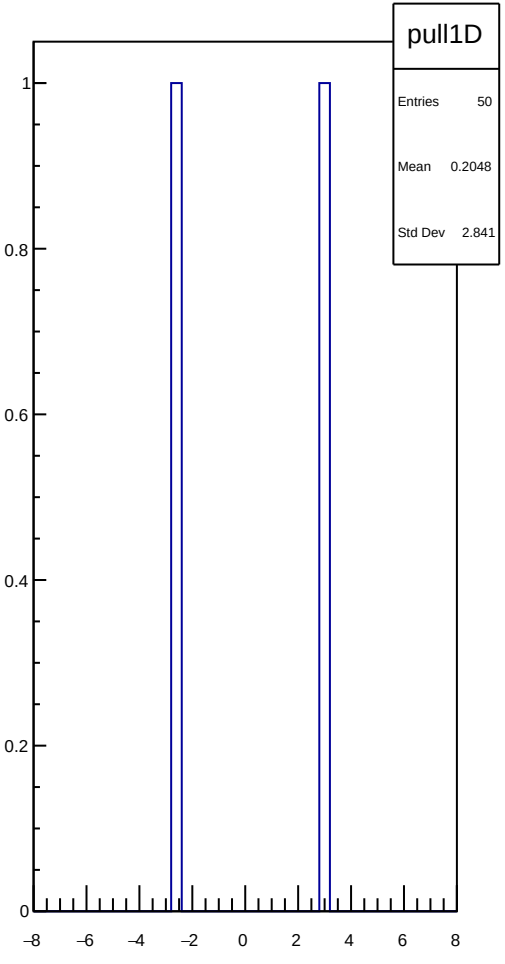

yield_sam3_rms vs run
χ^2 / ndf 1.176e+05 / 49
p0 1.079 ± 0.001154
4.5
4
3.5
3
2.5
2
1.5
1
0.5
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

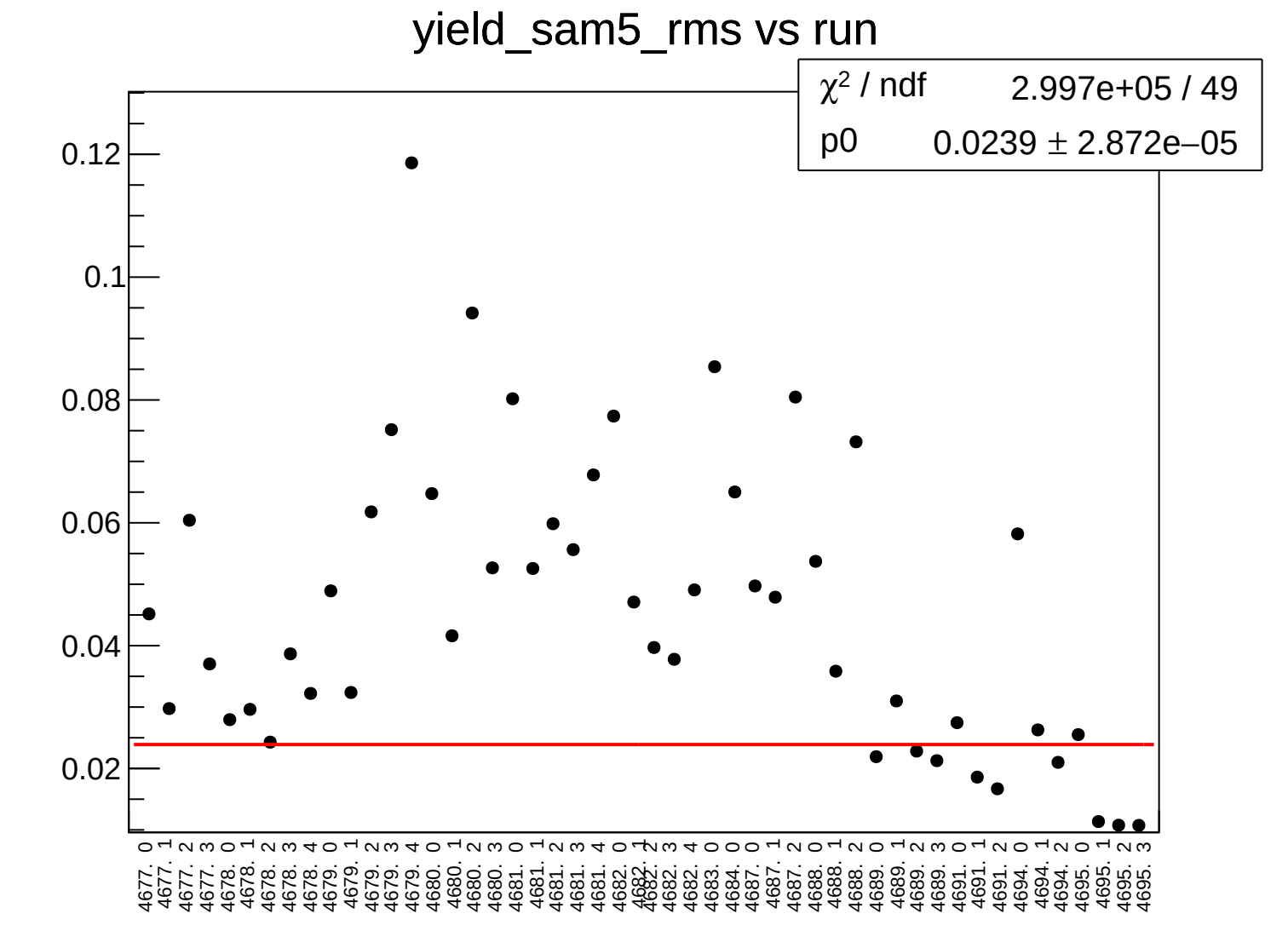

yield_sam4_mean vs run
χ² / ndf 3.235e+05 / 49
p0 22.4 ± 0.0009409
pull
Entries 50
Mean 39.84
Std Dev 16.33

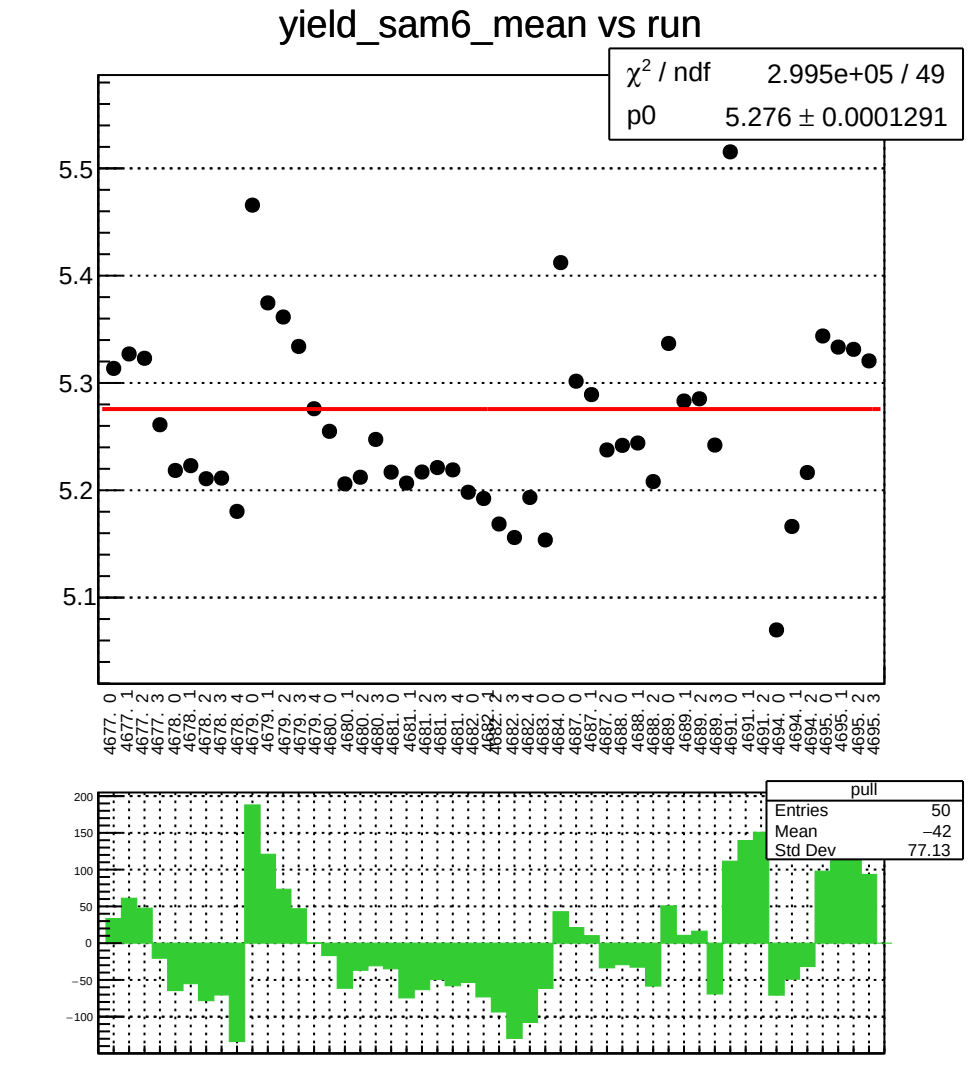

pull1D
Entries 50
Mean 1.975
Std Dev 4.85

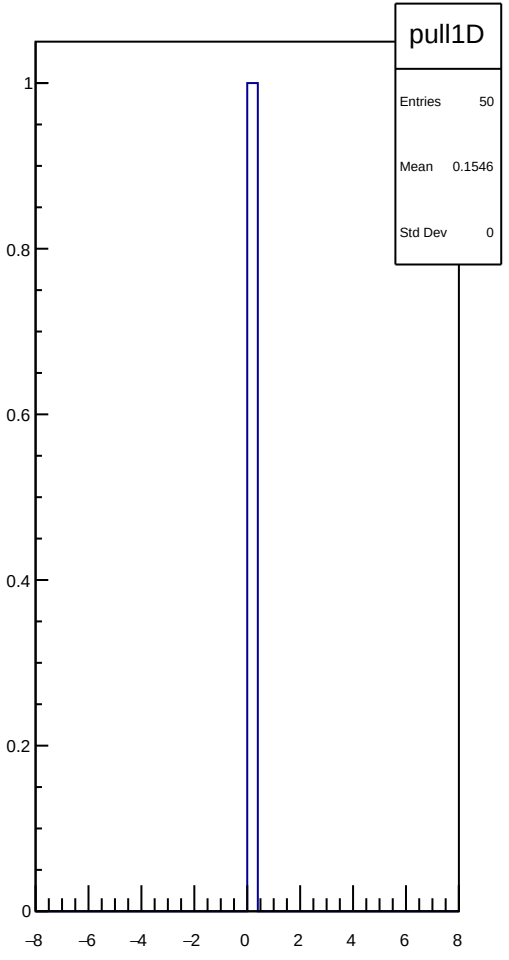

yield_sam4_rms vs run
χ² / ndf 1.831e+05 / 49
p0 0.5984 ± 0.0006653
2.5
2
1.5
1
0.5
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

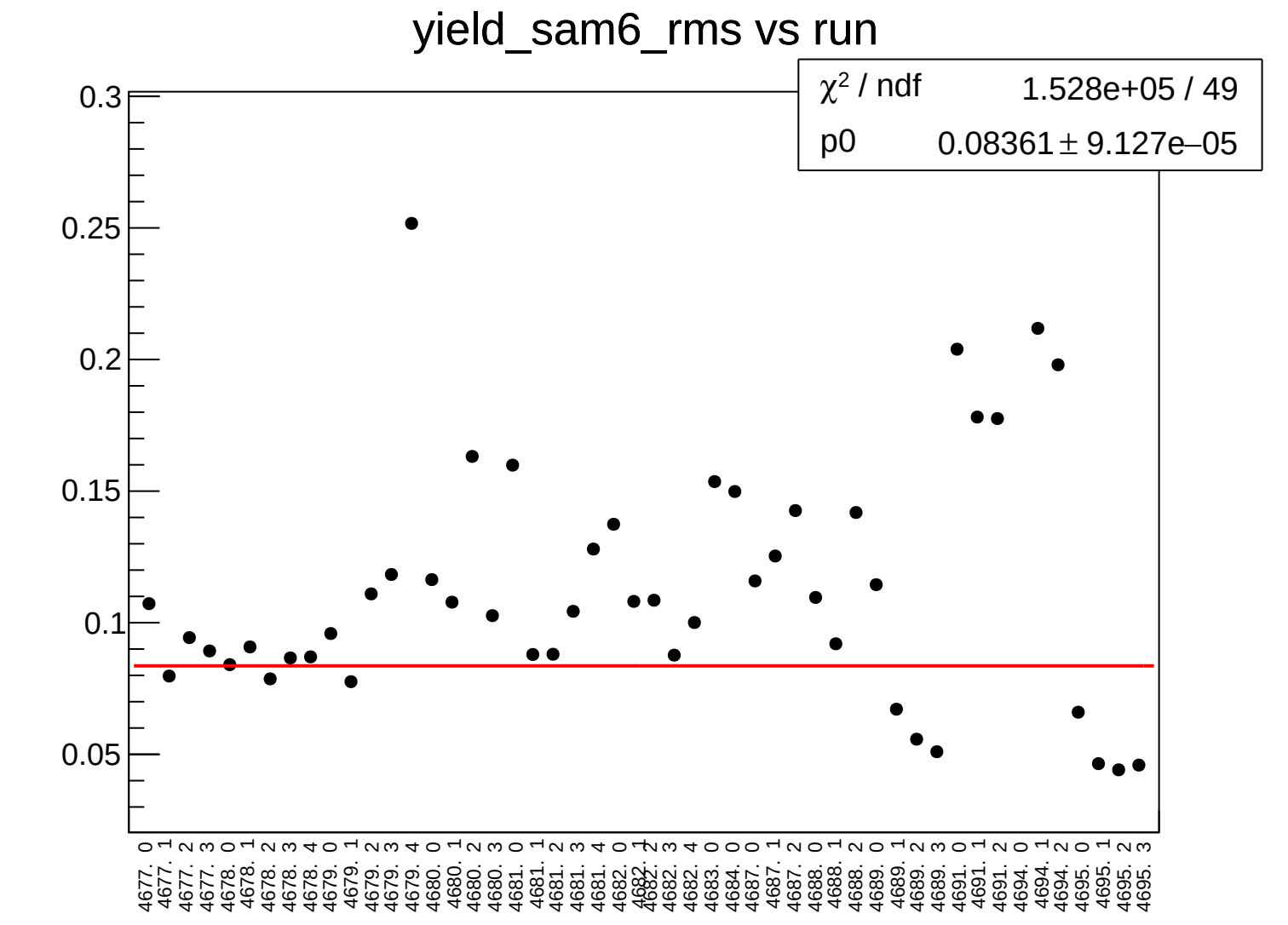

yield_sam5_mean vs run
χ² / ndf 1.132e+06 / 49
p0 3.867 ± 4.061e−05
pull
Entries 50
Mean −6.065
Std Dev 32.92

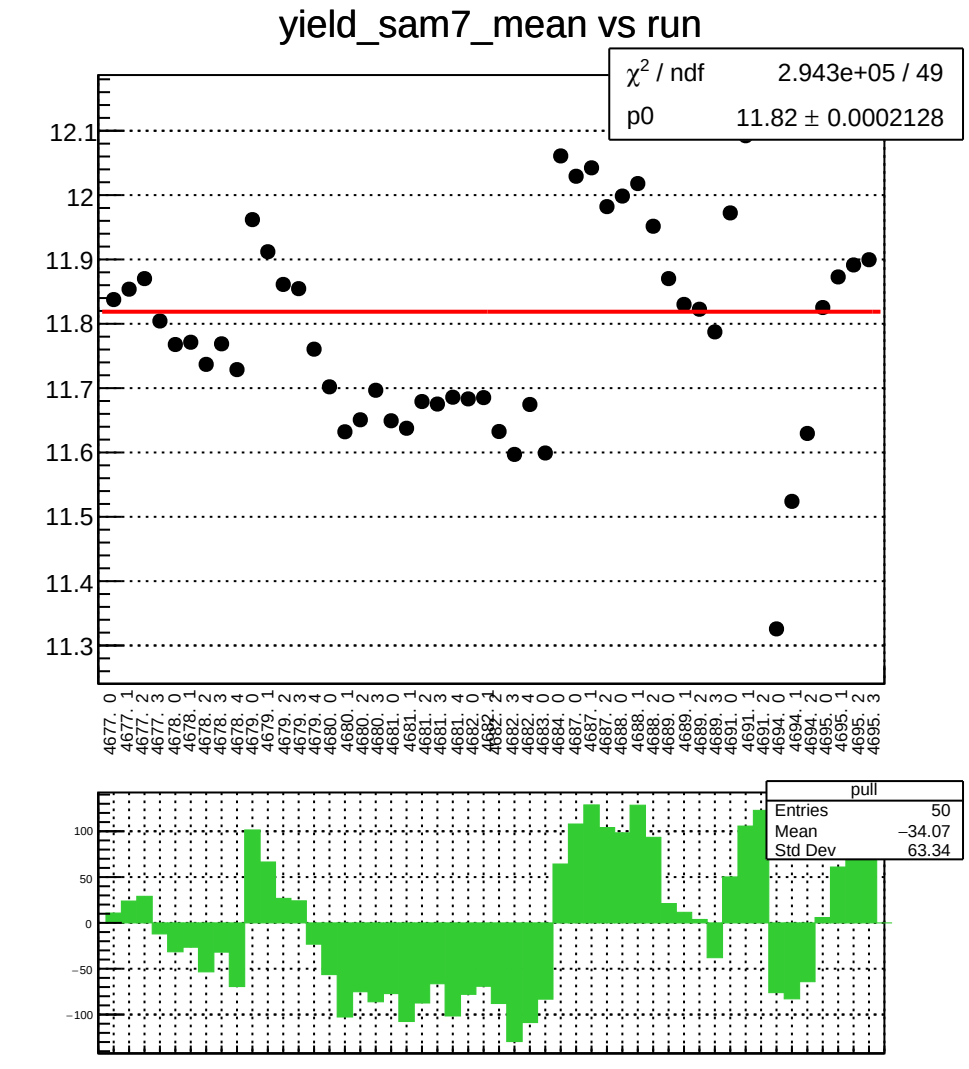

pull1D
Entries 50
Mean 0.2048
Std Dev 2.841

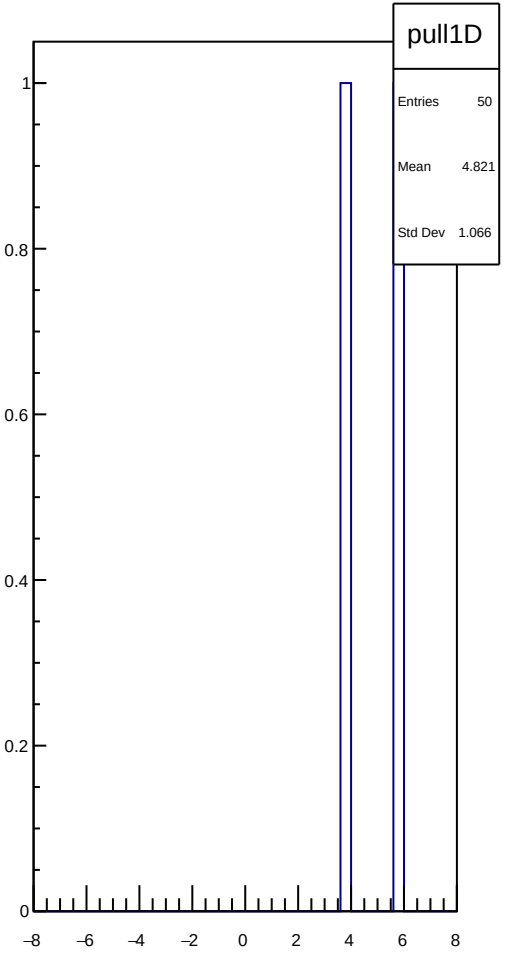

yield_sam5_rms vs run
χ² / ndf 2.997e+05 / 49
p0 0.0239 ± 2.872e−05
0.12
0.1
0.08
0.06
0.04
0.02
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

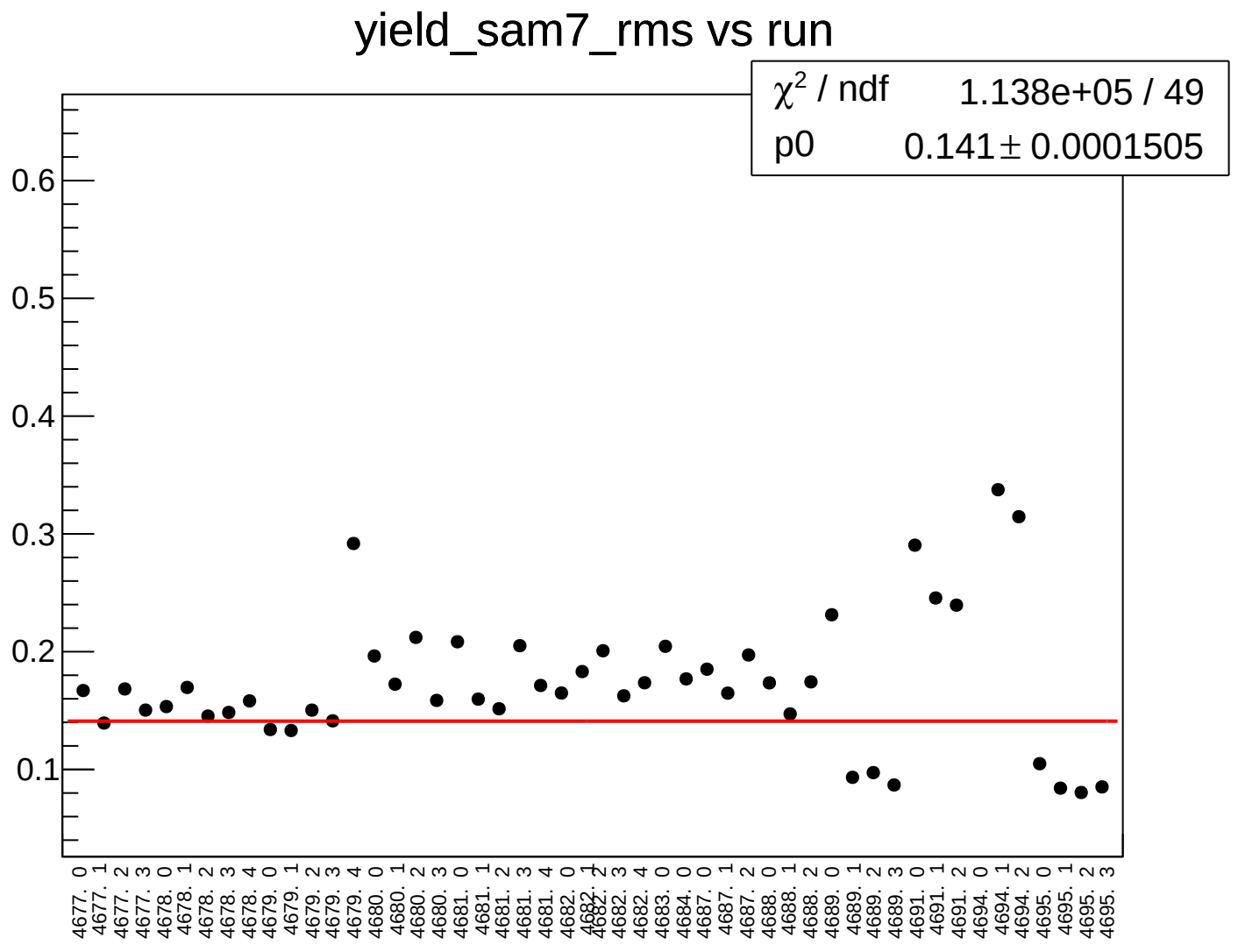

yield_sam6_mean vs run
χ² / ndf 2.995e+05 / 49
p0 5.276 ± 0.0001291
5.5
5.4
5.3
5.2
5.1
pull
Entries 50
Mean −42
Std Dev 77.13
200
150
100
50
0
−50
−100

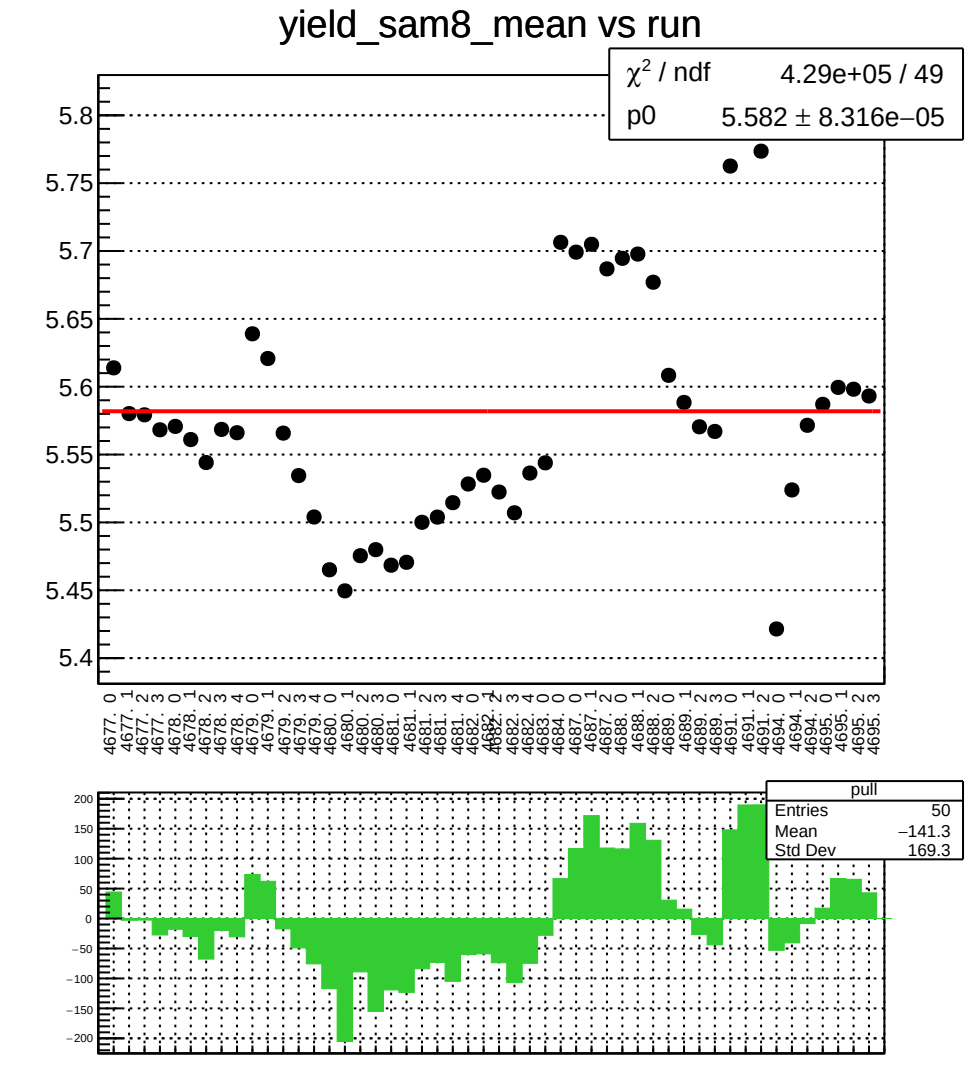

pull1D
Entries 50
Mean 0.1546
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

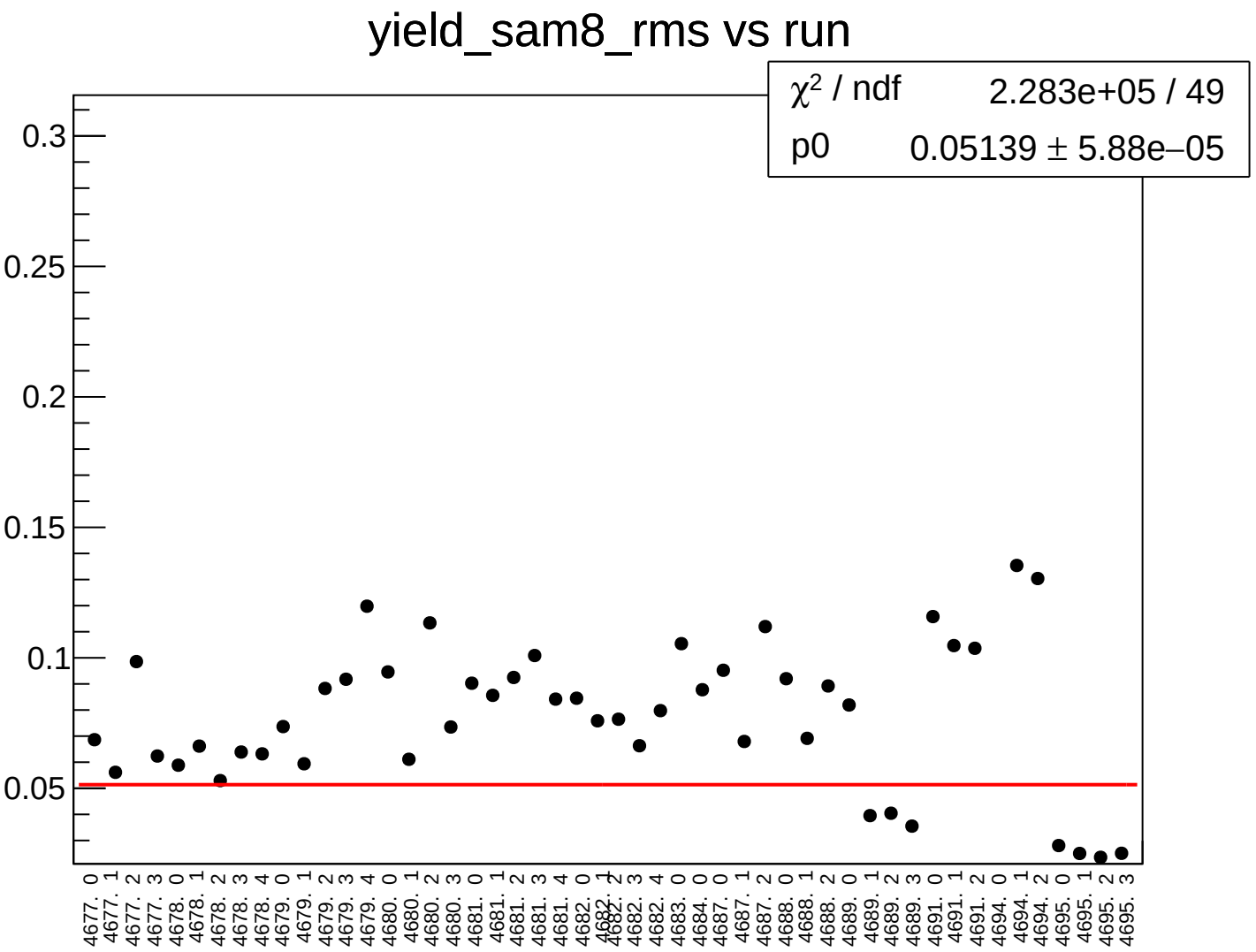

yield_sam6_rms vs run
χ² / ndf 1.528e+05 / 49
p0 0.08361 ± 9.127e–05
0.3
0.25
0.2
0.15
0.1
0.05
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

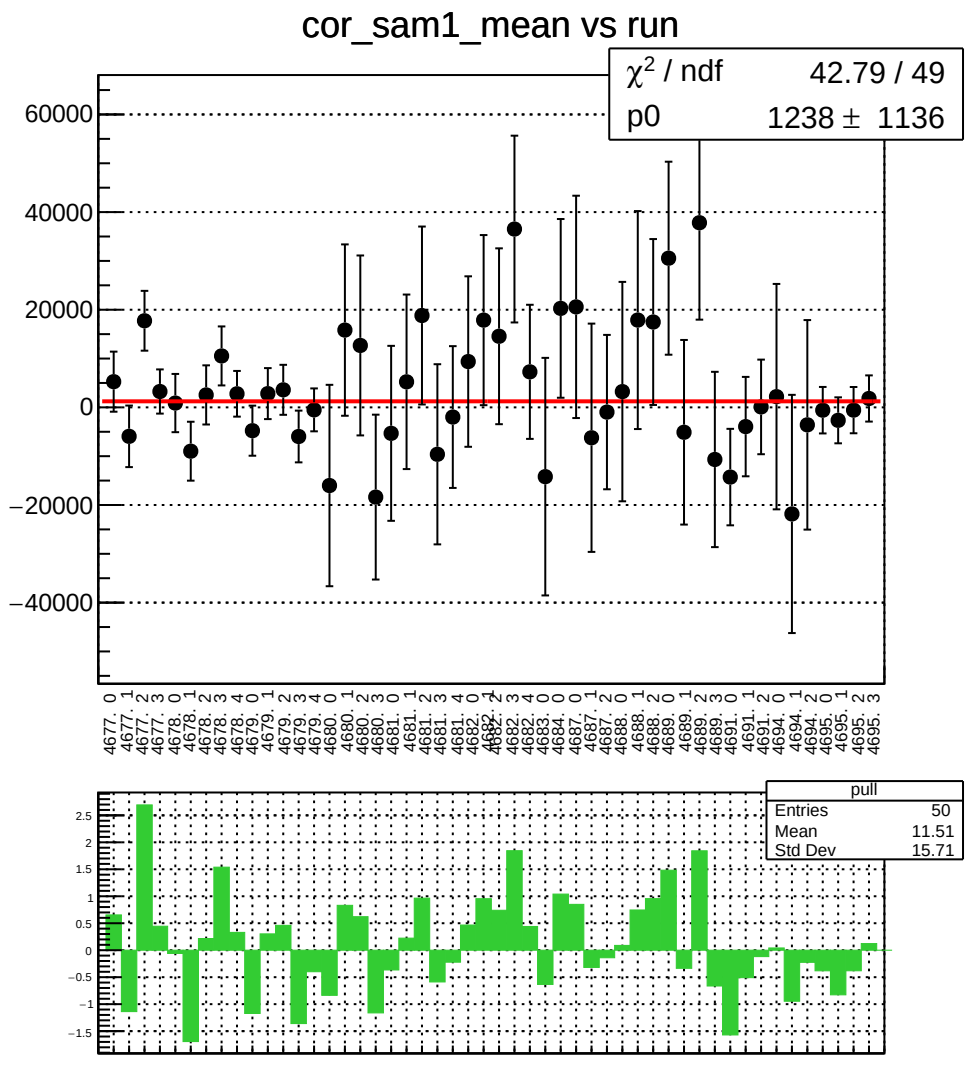

yield_sam7_mean vs run
χ² / ndf 2.943e+05 / 49
p0 11.82 ± 0.0002128
pull
Entries 50
Mean −34.07
Std Dev 63.34

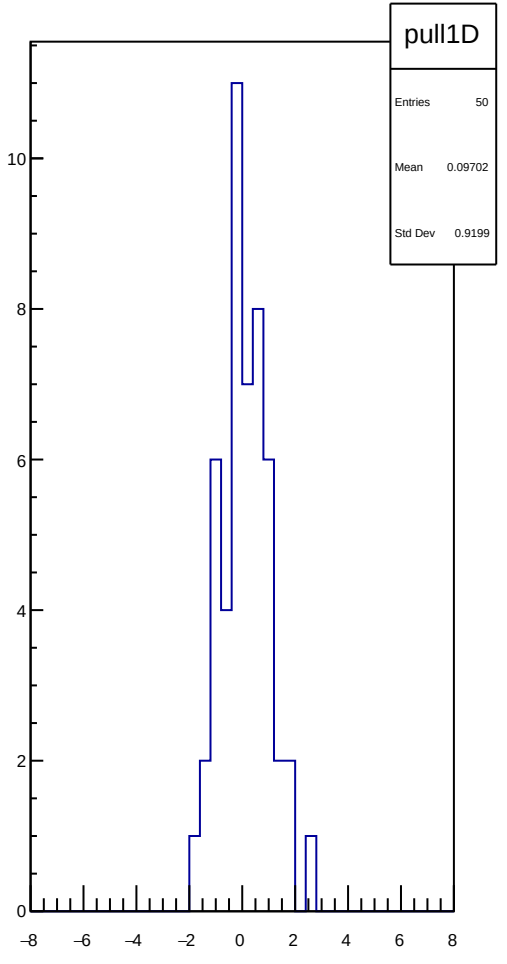

pull1D
Entries 50
Mean 4.821
Std Dev 1.066

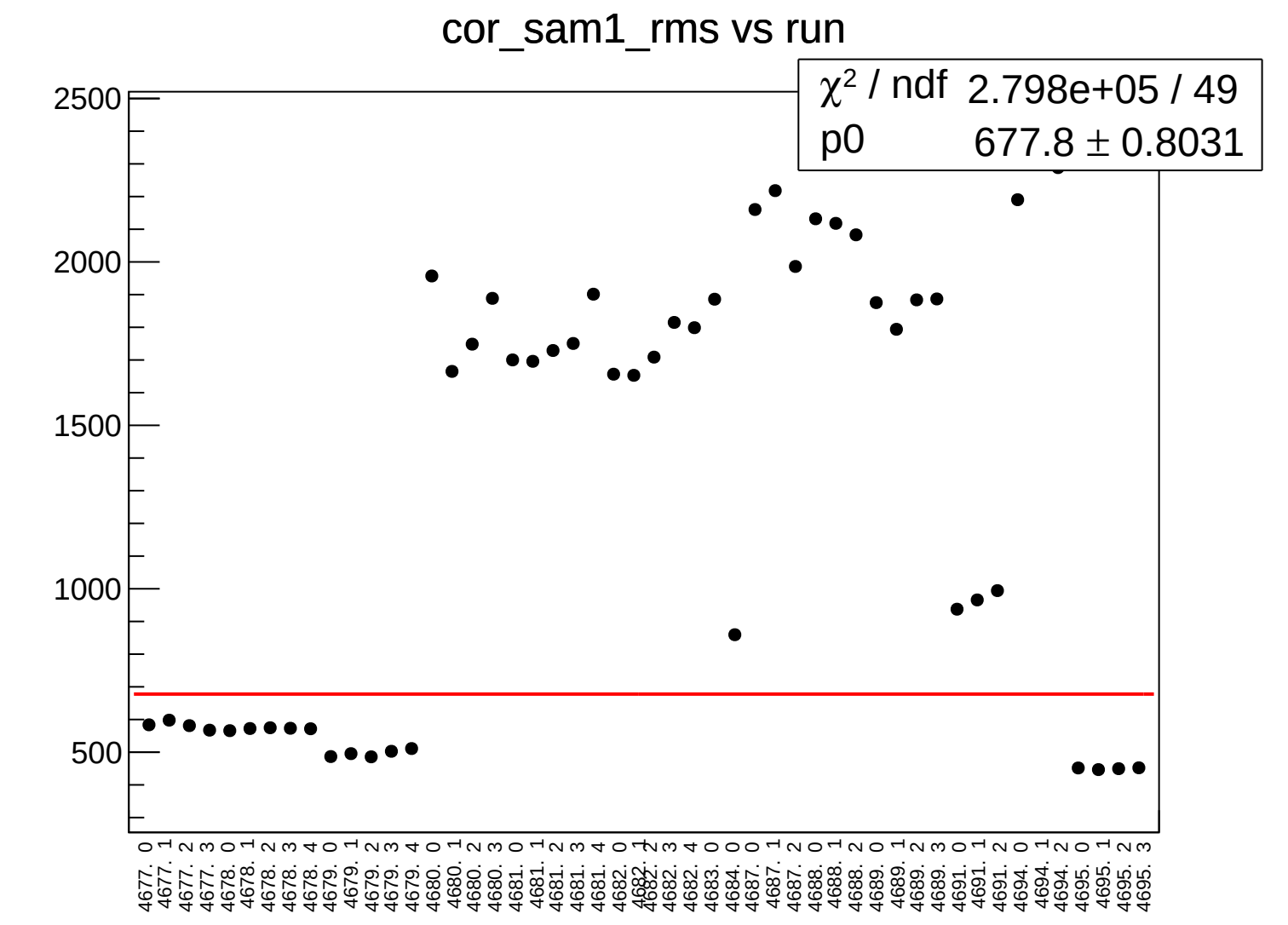

yield_sam7_rms vs run
χ² / ndf 1.138e+05 / 49
p0 0.141 ± 0.0001505
0.6
0.5
0.4
0.3
0.2
0.1
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

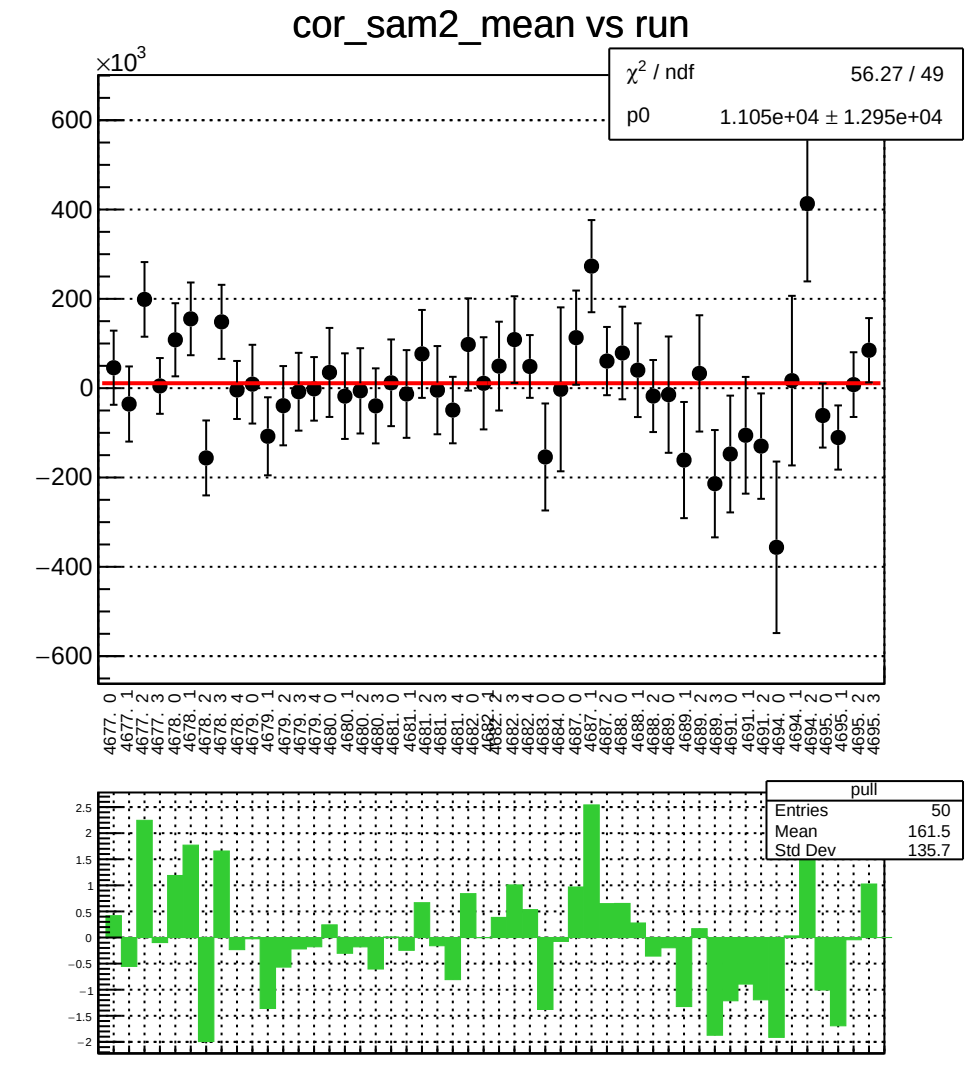

yield_sam8_mean vs run
χ² / ndf 4.29e+05 / 49
p0 5.582 ± 8.316e−05
5.8
5.75
5.7
5.65
5.6
5.55
5.5
5.45
5.4
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean −141.3
Std Dev 169.3
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 50
Mean −2.694
Std Dev 0.1758
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

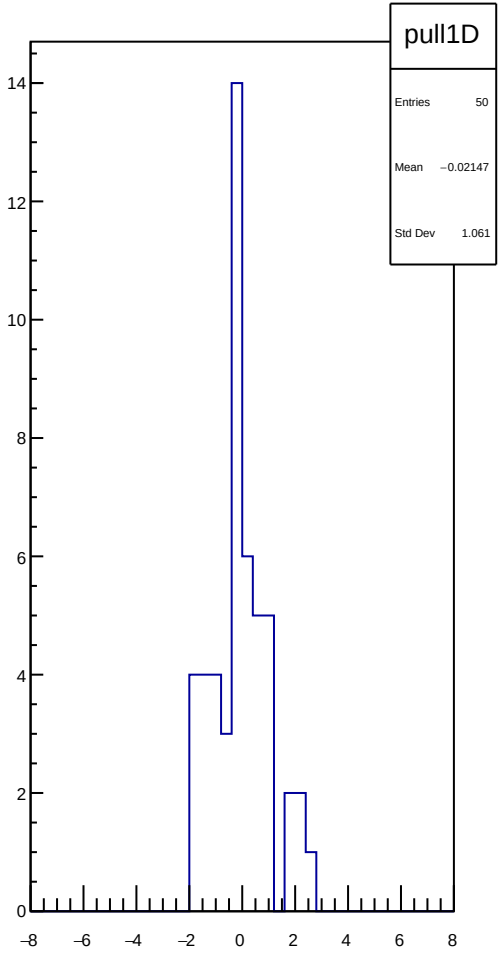

yield_sam8_rms vs run
χ² / ndf 2.283e+05 / 49
p0 0.05139 ± 5.88e−05
0.3
0.25
0.2
0.15
0.1
0.05
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

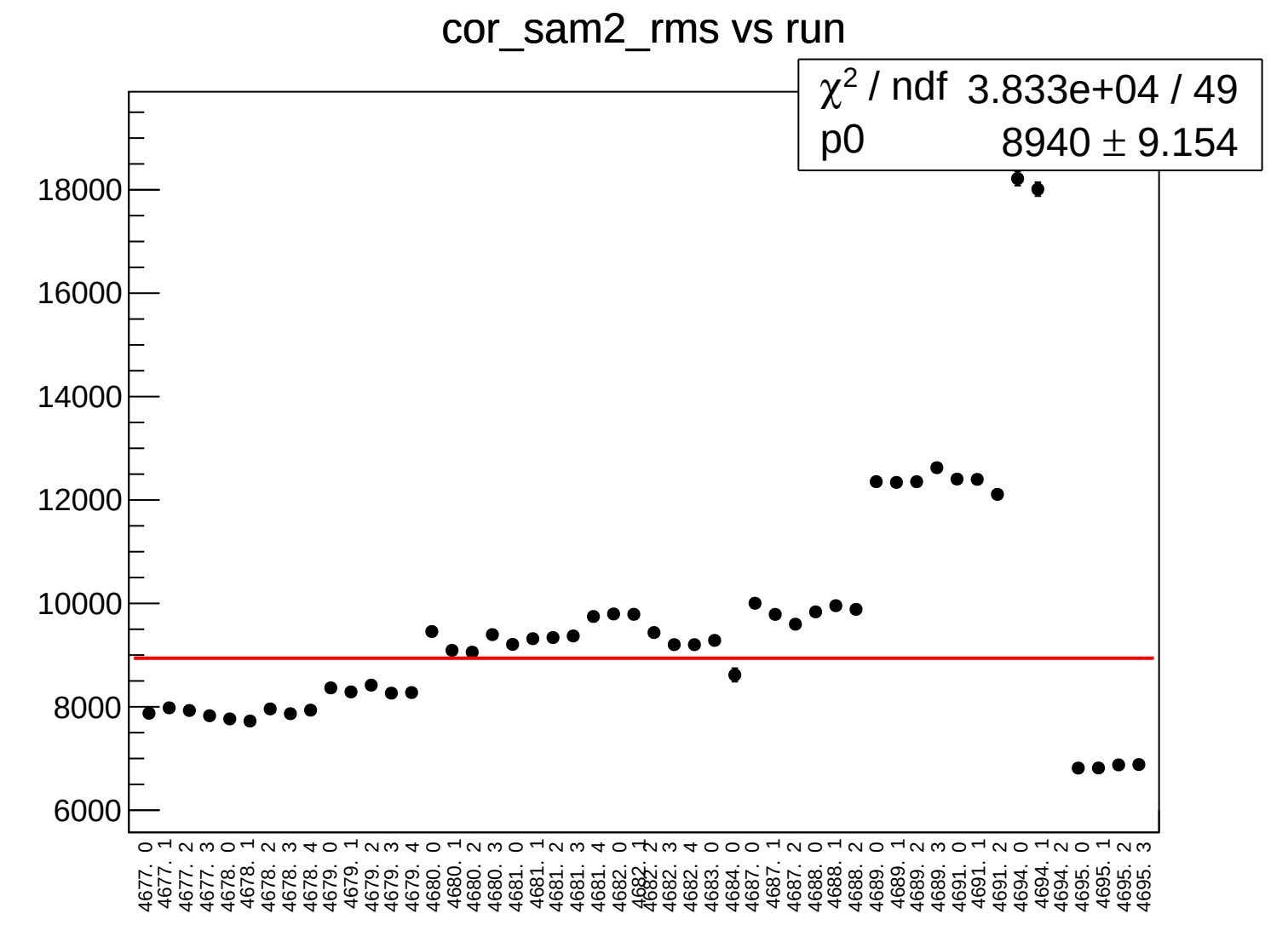

cor_sam1_mean vs run
χ^2 / ndf 42.79 / 49
p0 1238 ± 1136
60000
40000
20000
0
−20000
−40000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 11.51
Std Dev 15.71
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

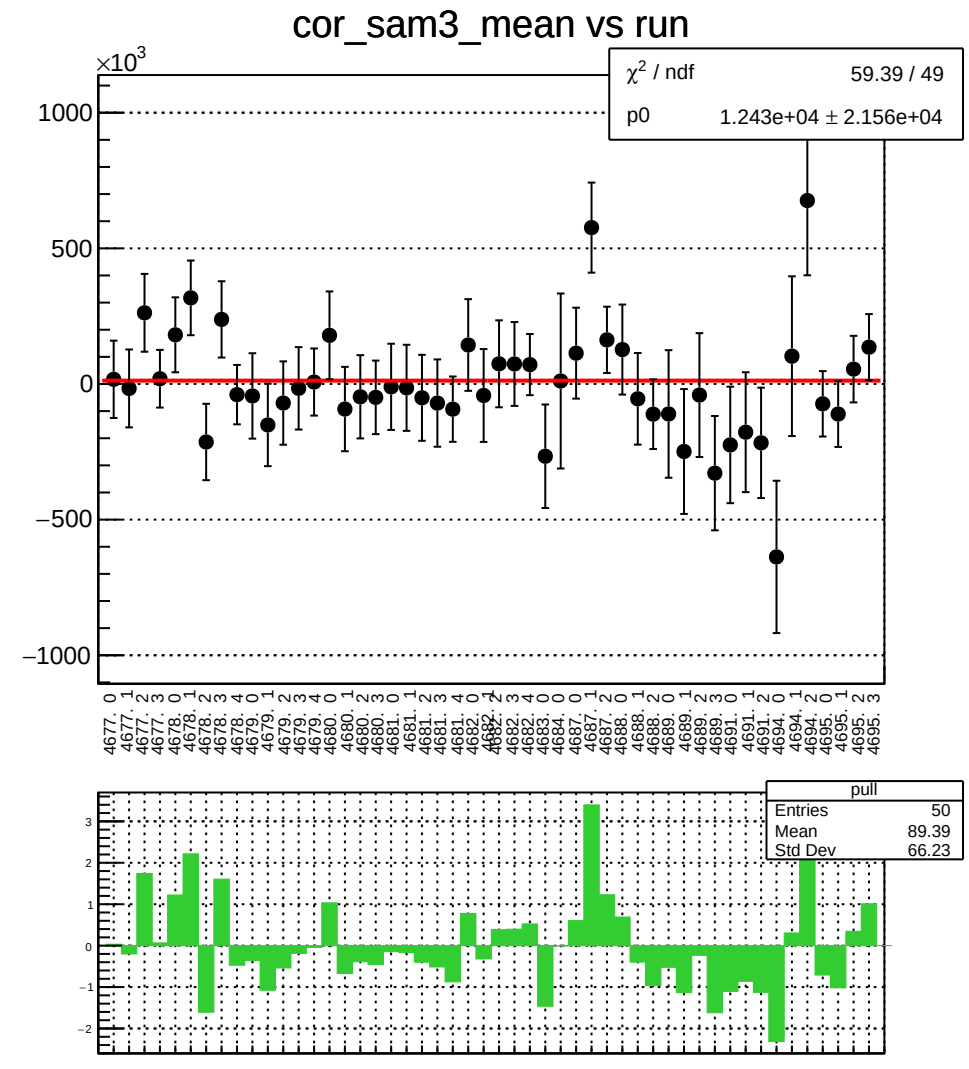

pull1D
Entries 50
Mean 0.09702
Std Dev 0.9199
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

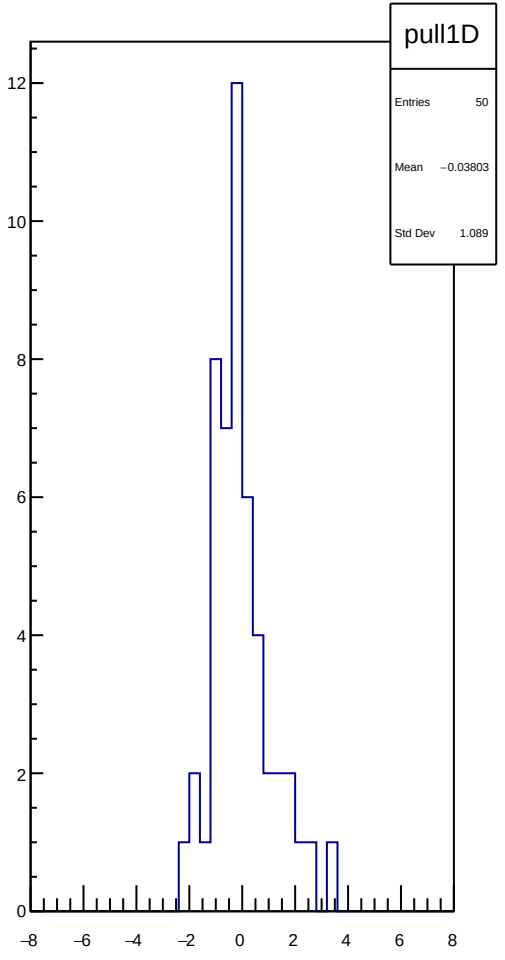

cor_sam1_rms vs run
χ² / ndf 2.798e+05 / 49
p0 677.8 ± 0.8031
2500
2000
1500
1000
500
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

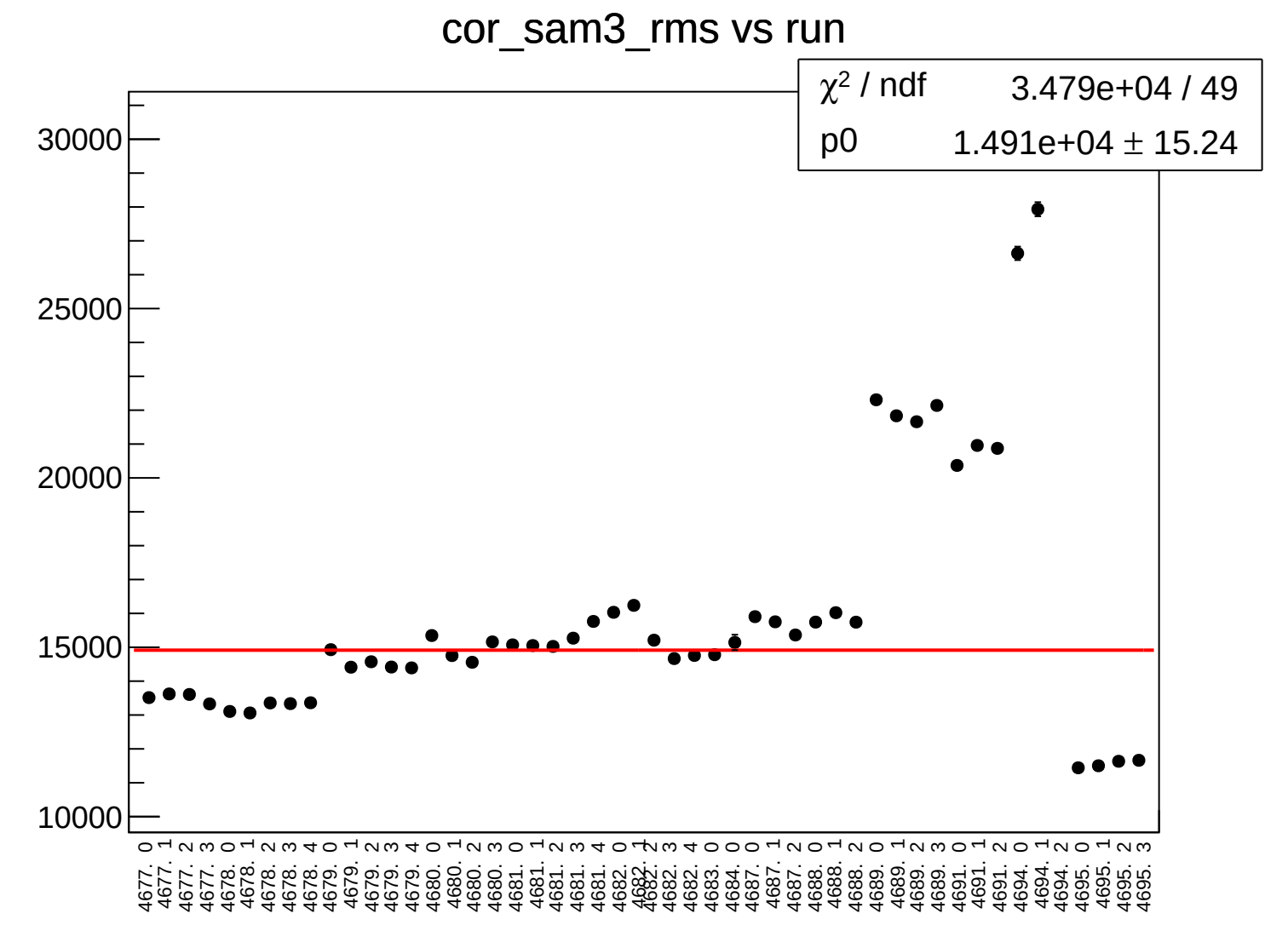

cor_sam2_mean vs run
×10^3
χ² / ndf 56.27 / 49
p0 1.105e+04 ± 1.295e+04
600
400
200
0
−200
−400
−600
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 161.5
Std Dev 135.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

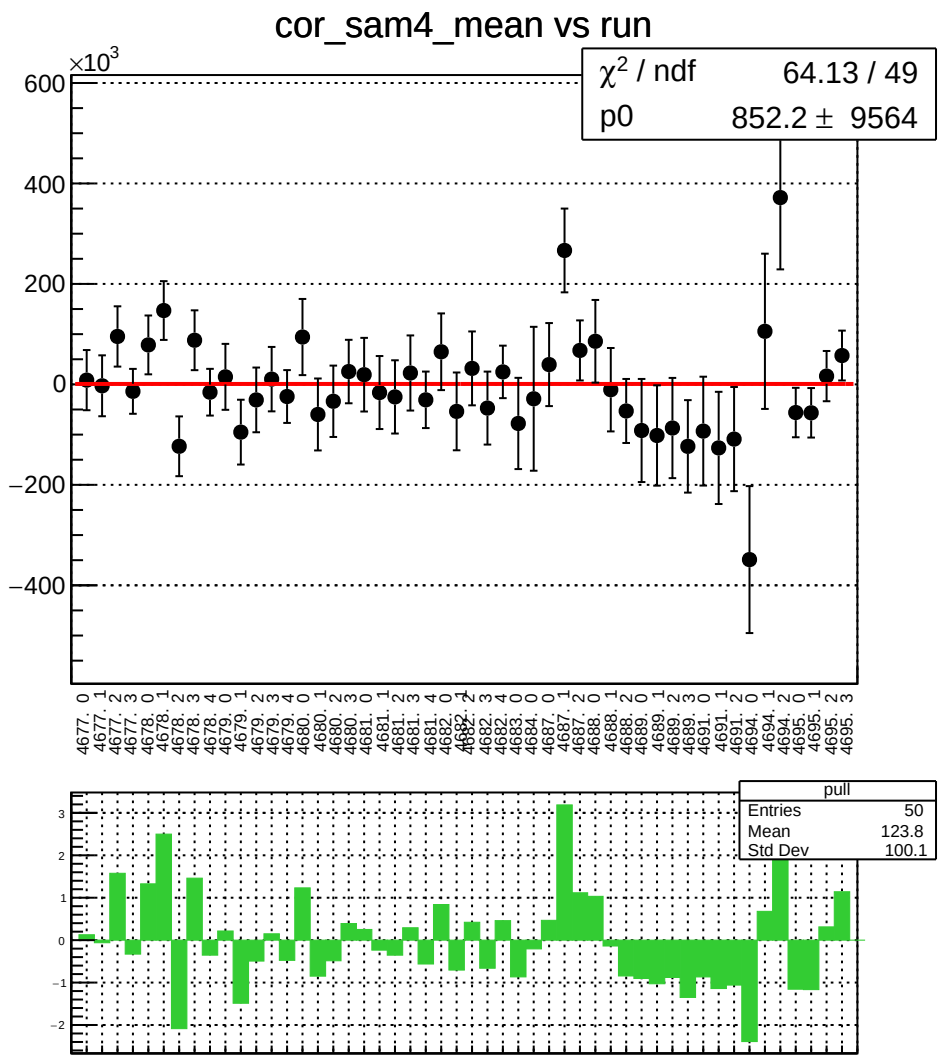

pull1D
Entries 50
Mean −0.02147
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

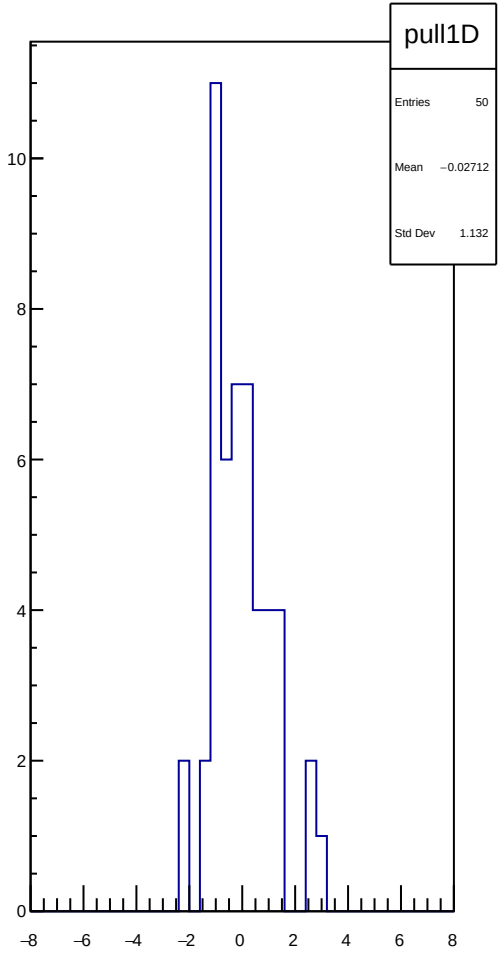

cor_sam2_rms vs run
χ² / ndf 3.833e+04 / 49
p0 8940 ± 9.154
18000
16000
14000
12000
10000
8000
6000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

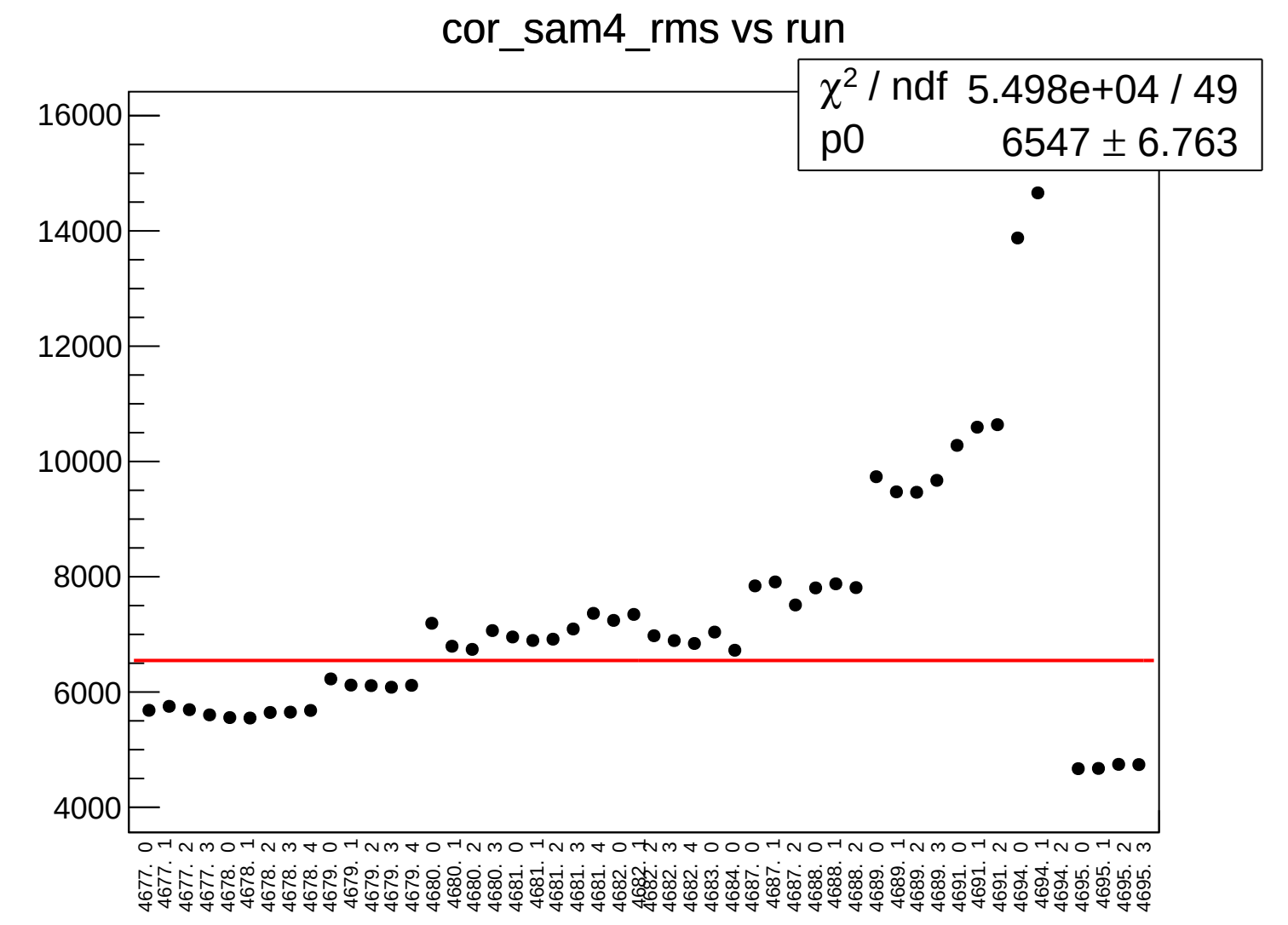

cor_sam3_mean vs run
×10^3
χ² / ndf 59.39 / 49
p0 1.243e+04 ± 2.156e+04
pull
Entries 50
Mean 89.39
Std Dev 66.23

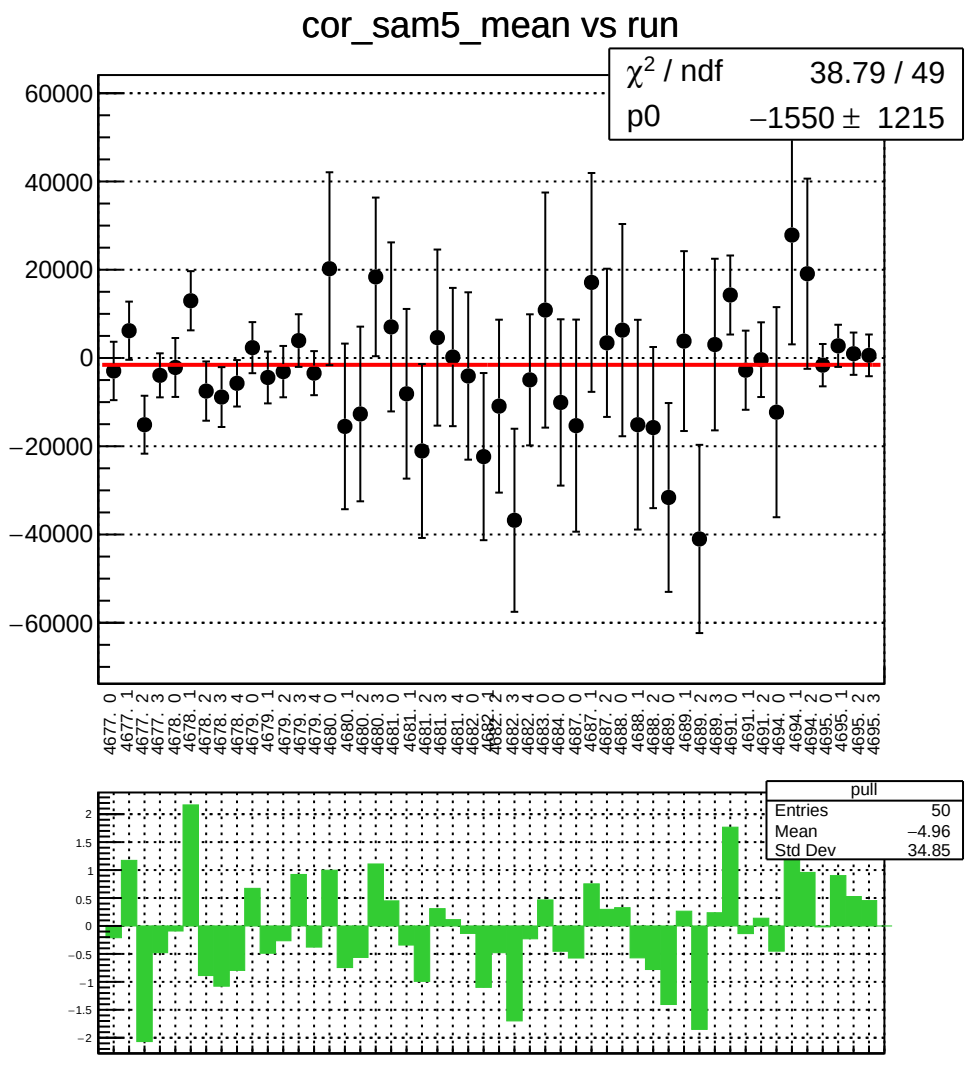

pull1D
Entries 50
Mean −0.03803
Std Dev 1.089

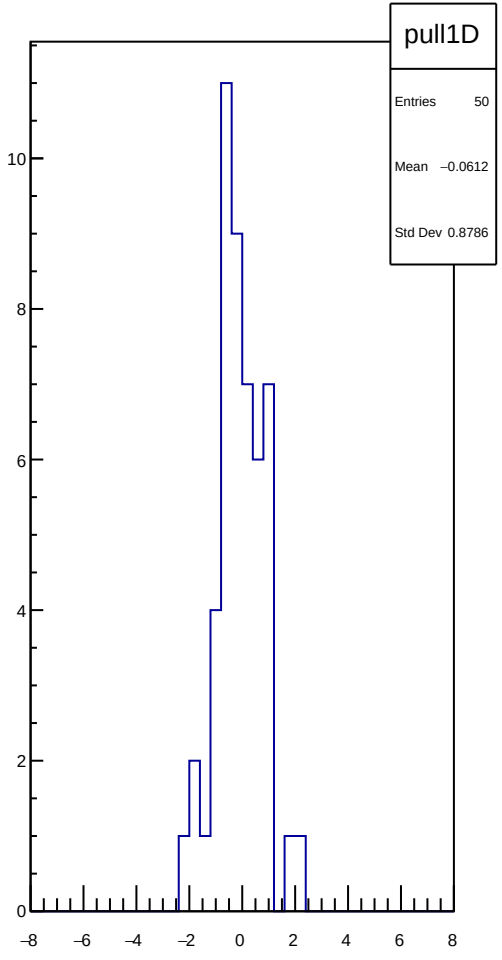

cor_sam3_rms vs run
χ² / ndf 3.479e+04 / 49
p0 1.491e+04 ± 15.24
30000
25000
20000
15000
10000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

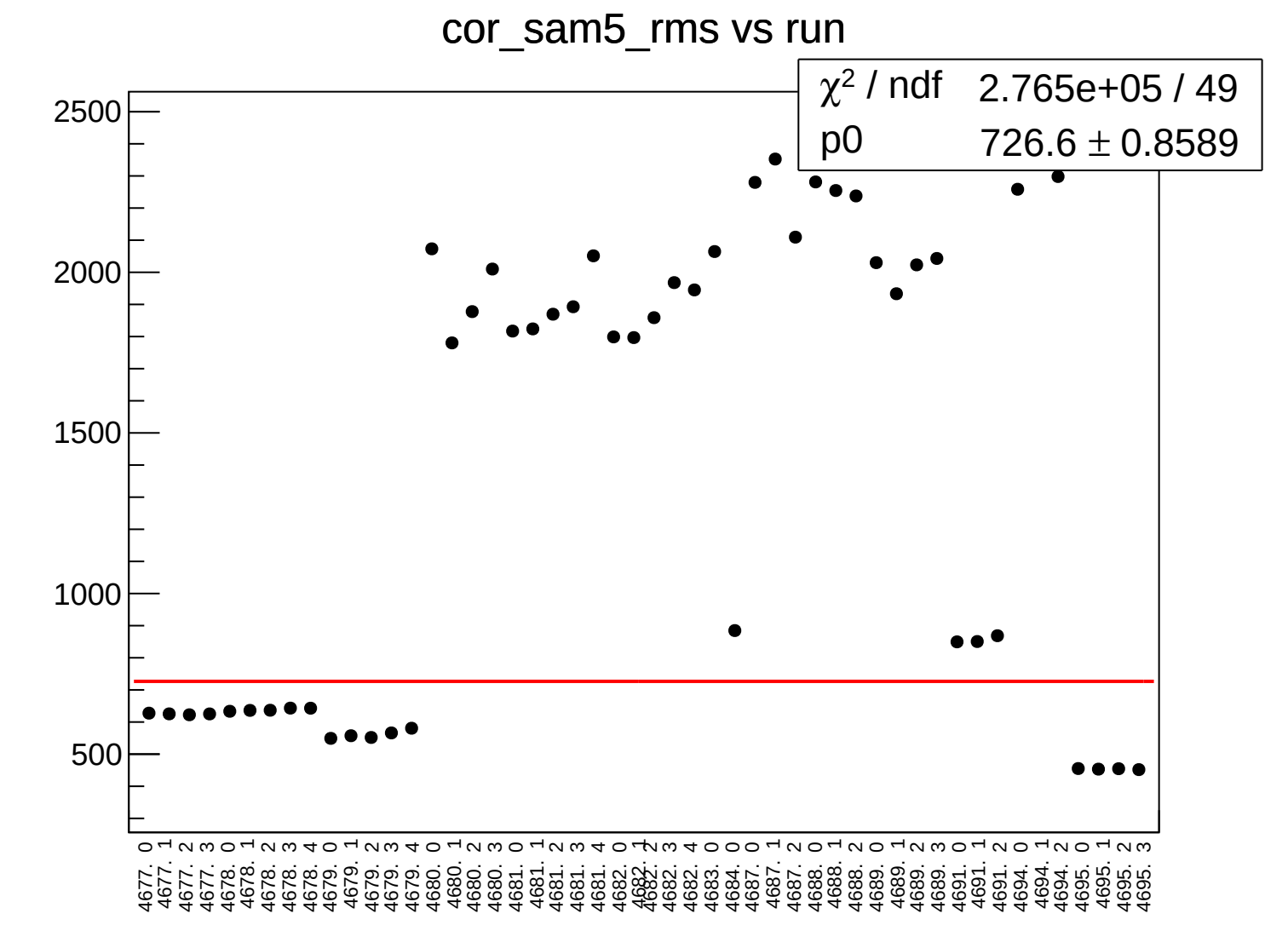

cor_sam4_mean vs run
×10^3
χ^2 / ndf 64.13 / 49
p0 852.2 ± 9564
600
400
200
0
−200
−400
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 123.8
Std Dev 100.1
3
2
1
0
−1
−2

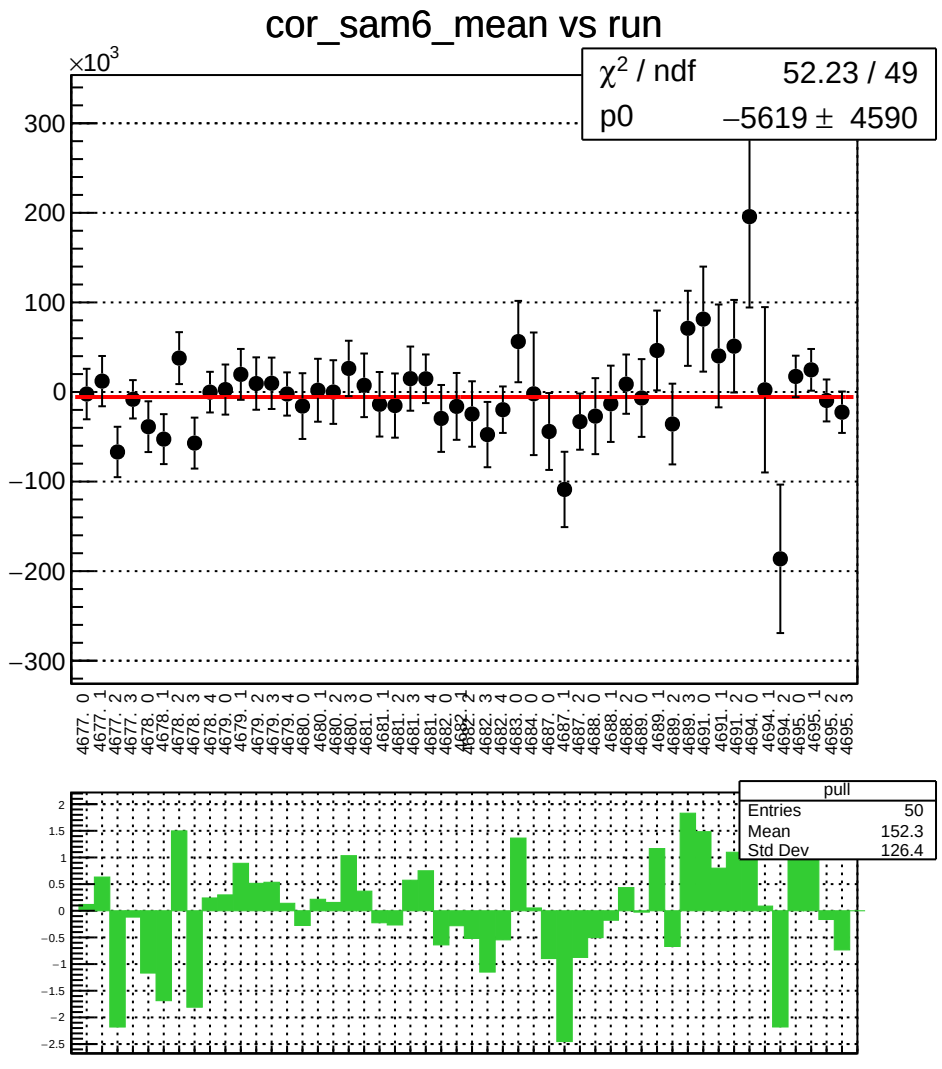

pull1D
Entries 50
Mean −0.02712
Std Dev 1.132
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

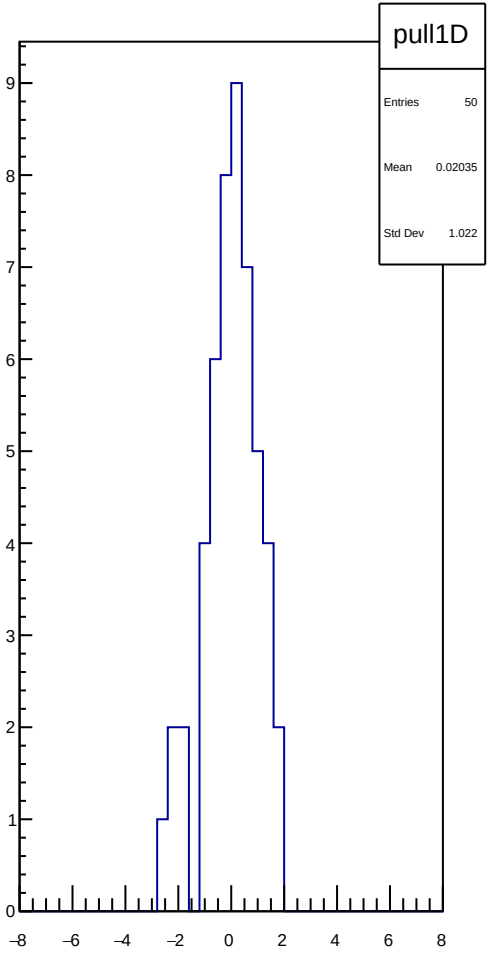

cor_sam4_rms vs run
χ² / ndf 5.498e+04 / 49
p0 6547 ± 6.763
16000
14000
12000
10000
8000
6000
4000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

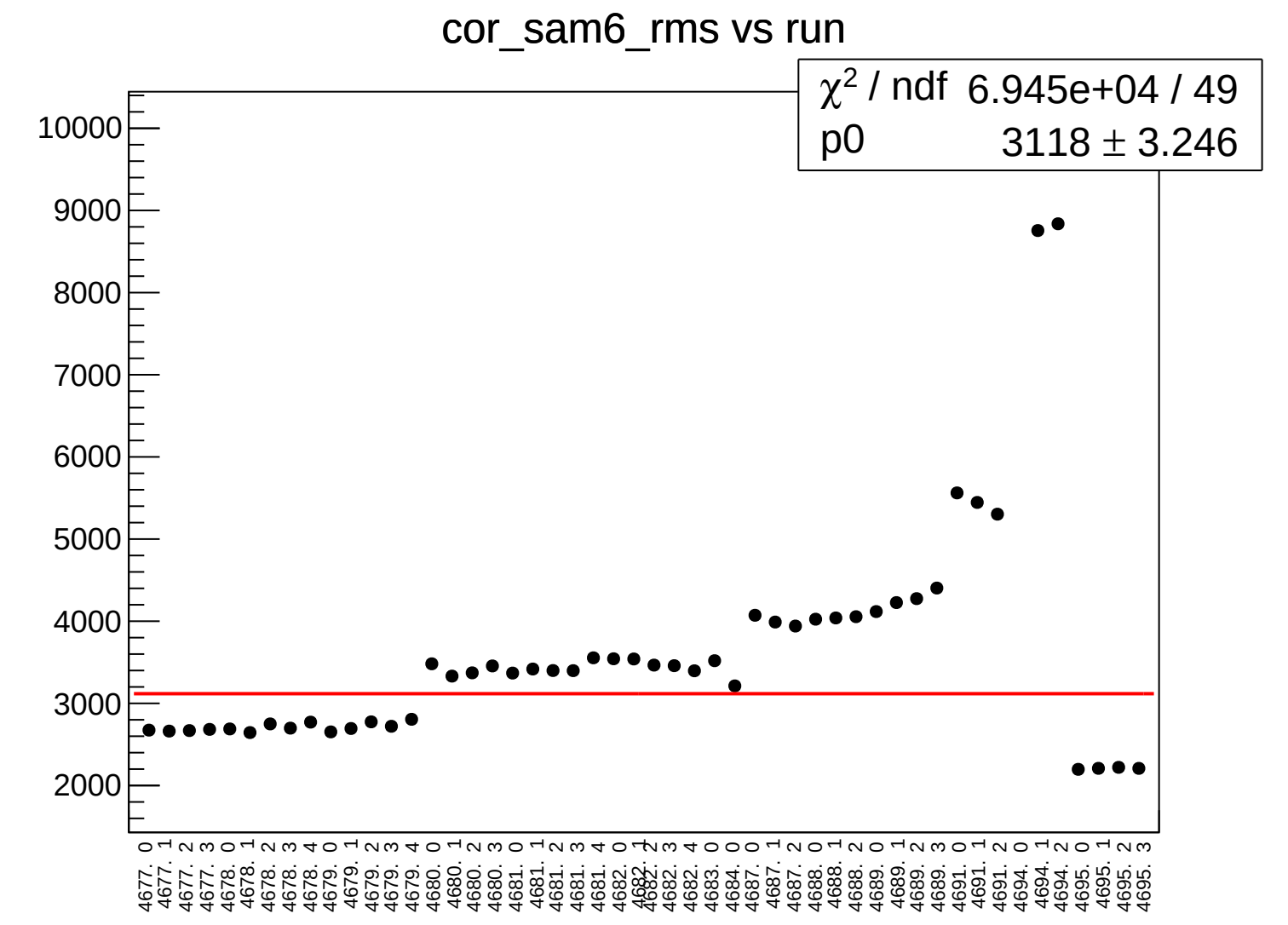

cor_sam5_mean vs run
χ² / ndf 38.79 / 49
p0 −1550 ± 1215
pull
Entries 50
Mean −4.96
Std Dev 34.85

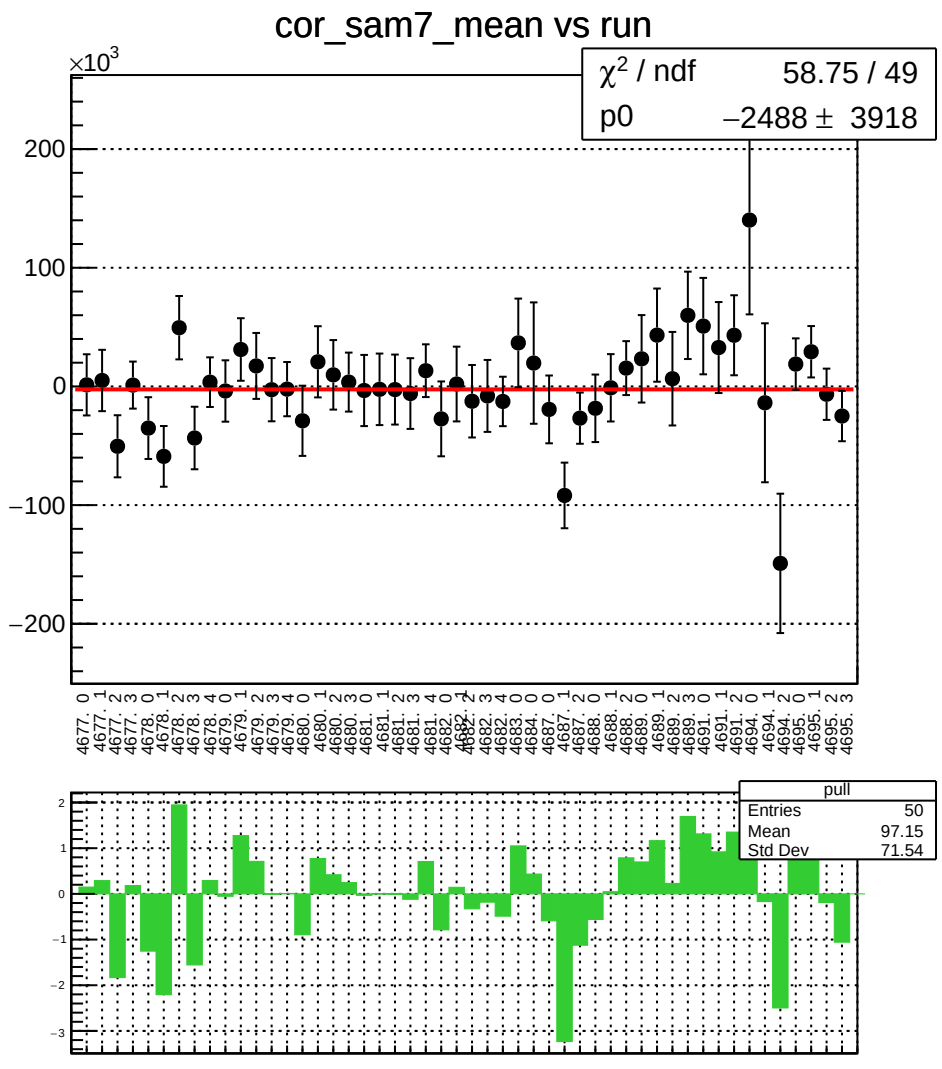

pull1D
Entries 50
Mean −0.0612
Std Dev 0.8786

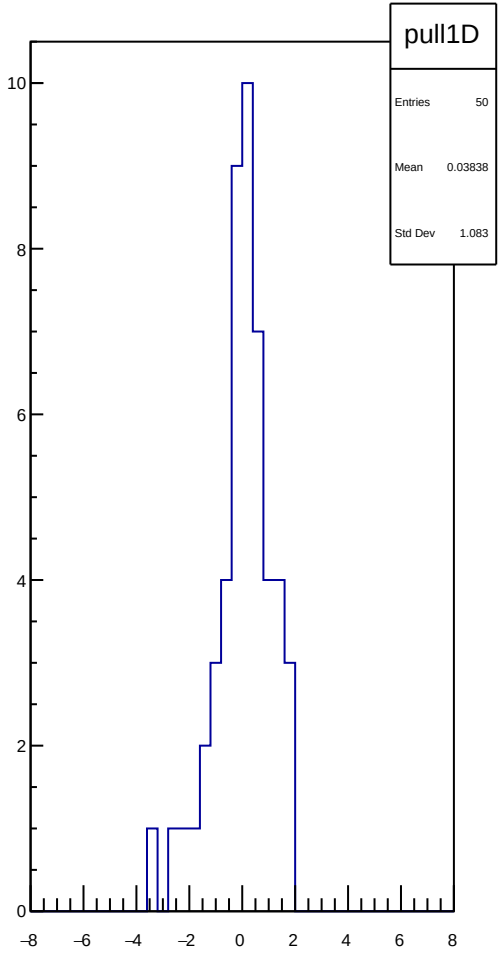

cor_sam5_rms vs run
χ² / ndf 2.765e+05 / 49
p0 726.6 ± 0.8589
2500
2000
1500
1000
500
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

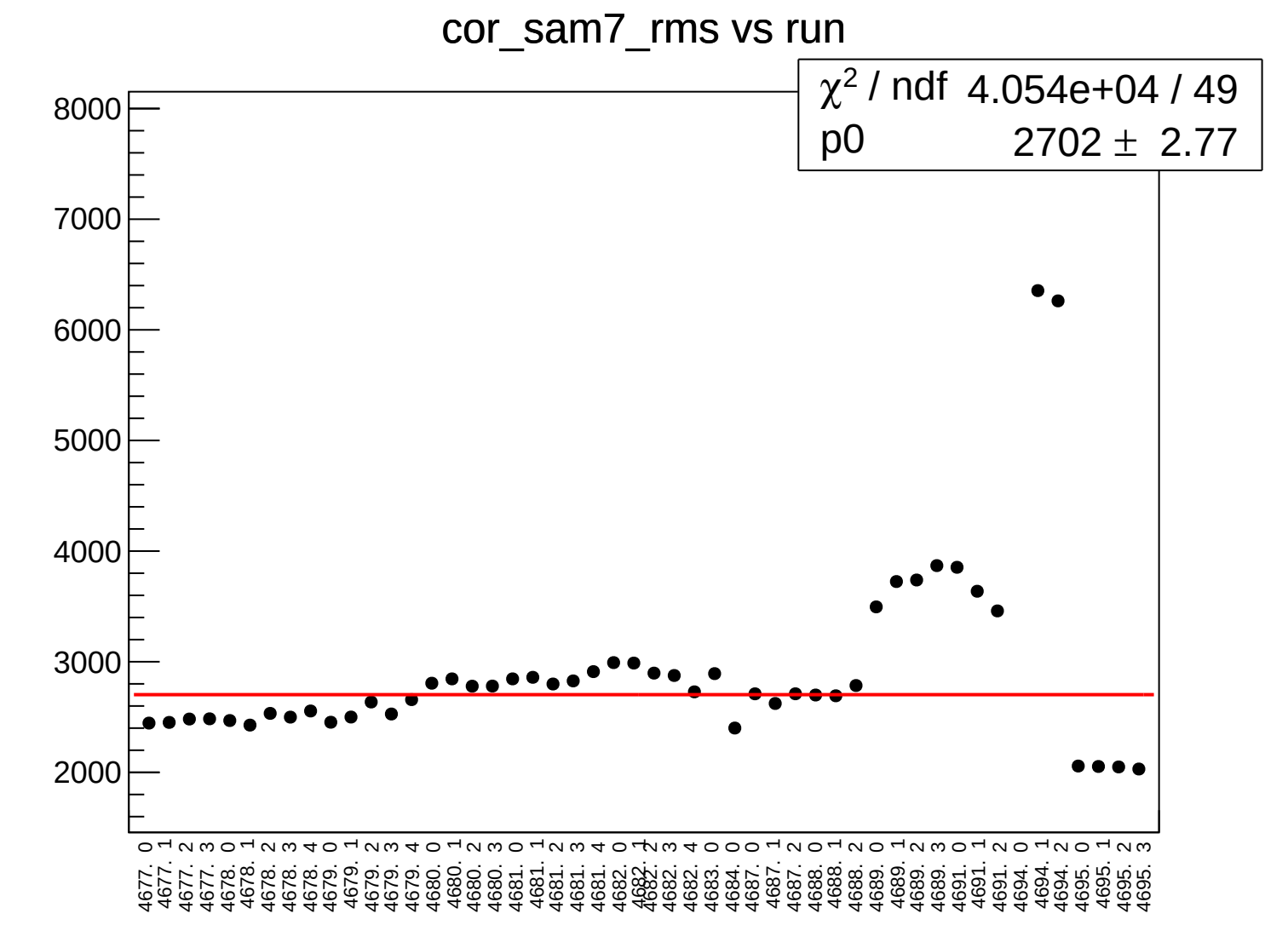

cor_sam6_mean vs run
×10^3
χ² / ndf 52.23 / 49
p0 −5619 ± 4590
300
200
100
0
−100
−200
−300
pull
Entries 50
Mean 152.3
Std Dev 126.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

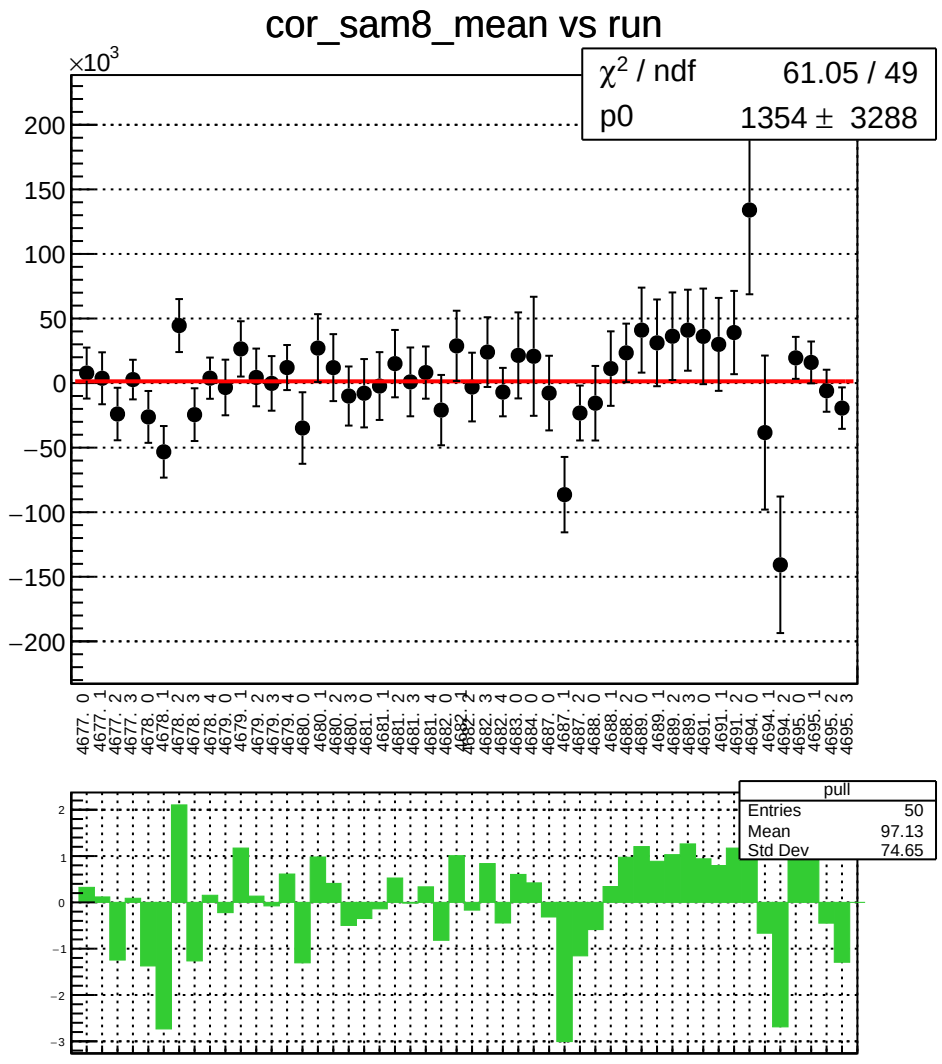

pull1D
Entries 50
Mean 0.02035
Std Dev 1.022
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

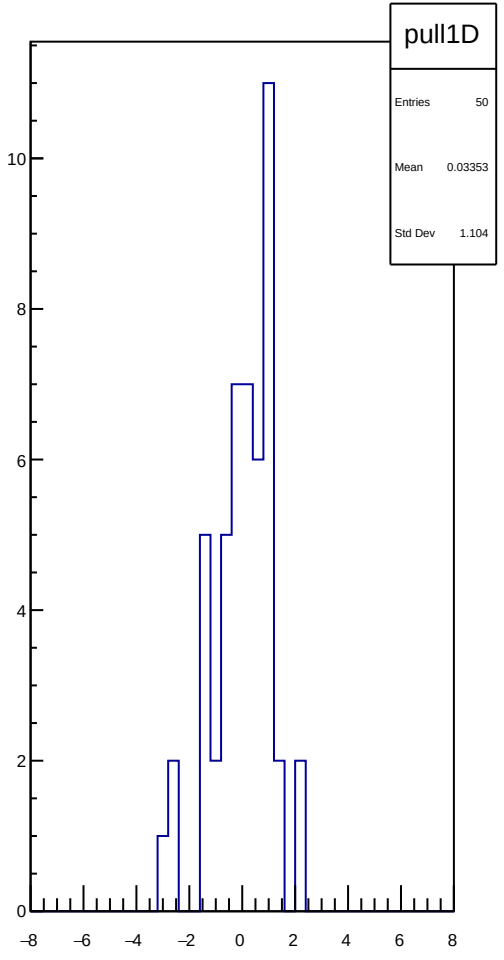

cor_sam6_rms vs run
χ² / ndf 6.945e+04 / 49
p0 3118 ± 3.246
10000
9000
8000
7000
6000
5000
4000
3000
2000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

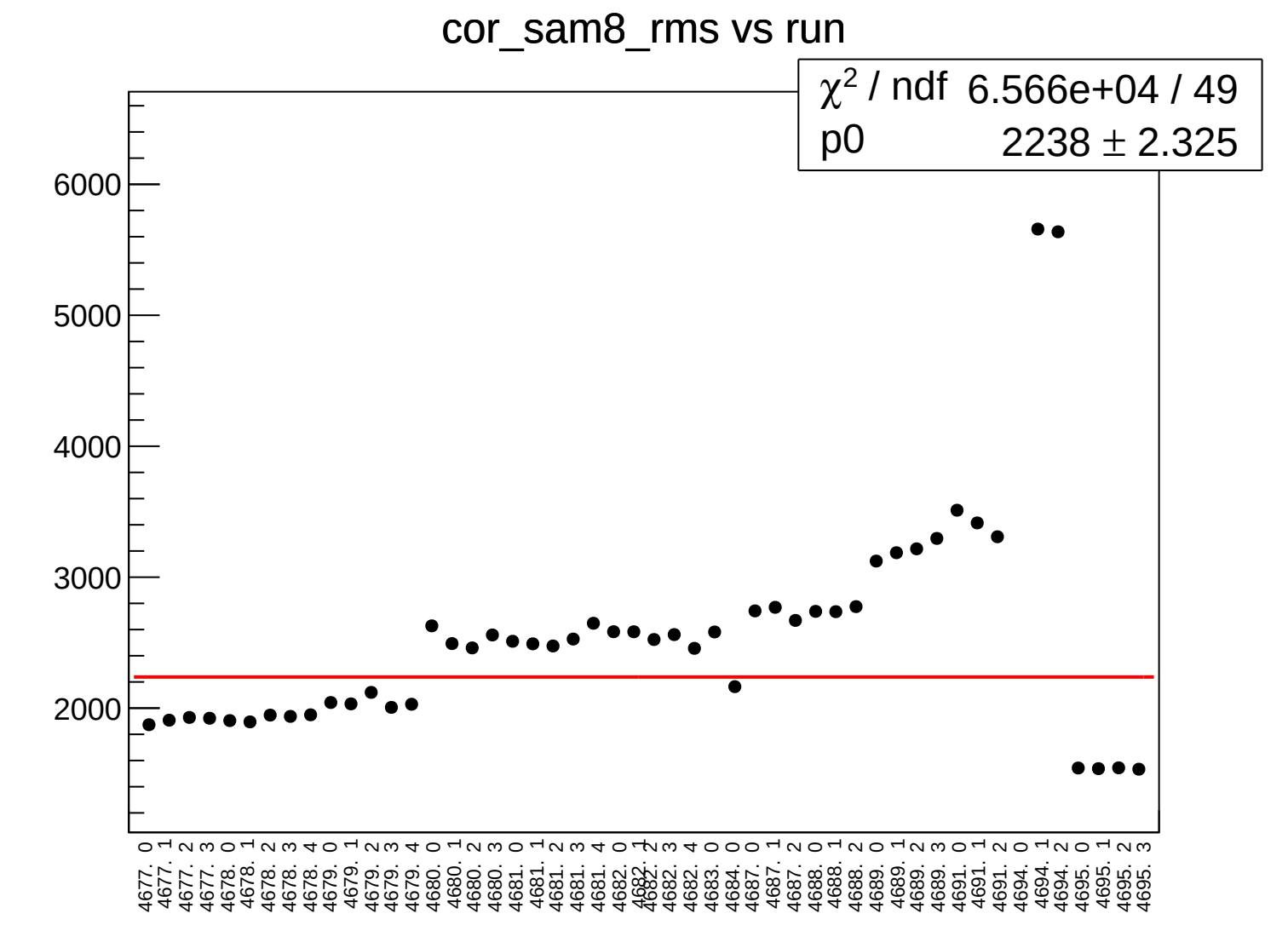

cor_sam7_mean vs run
×10^3
χ² / ndf 58.75 / 49
p0 −2488 ± 3918
200
100
0
−100
−200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 97.15
Std Dev 71.54
2
1
0
−1
−2
−3

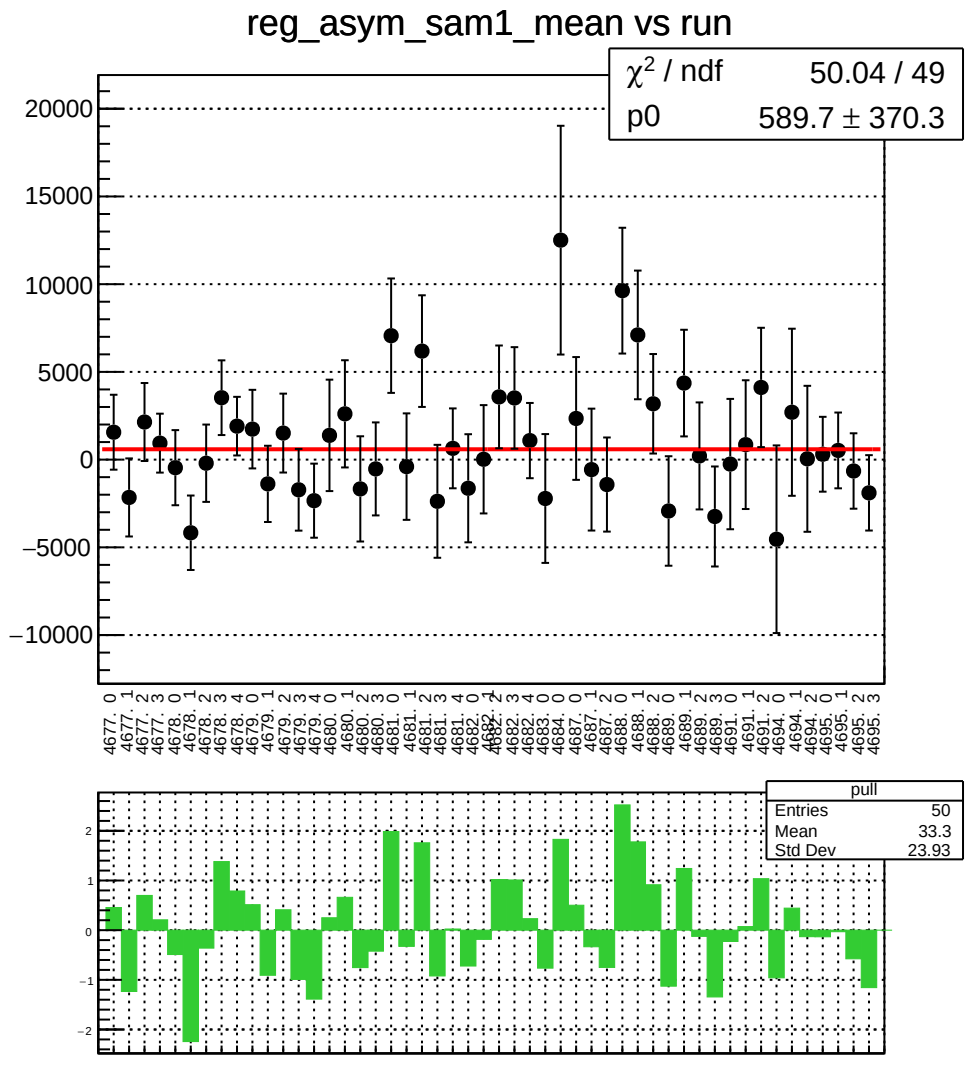

pull1D
Entries 50
Mean 0.03838
Std Dev 1.083
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

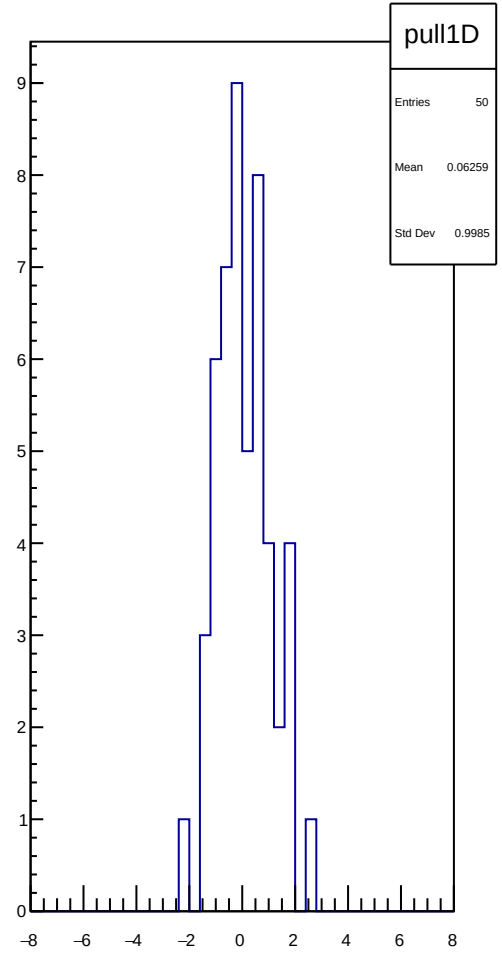

cor_sam7_rms vs run
χ² / ndf 4.054e+04 / 49
p0 2702 ± 2.77
8000
7000
6000
5000
4000
3000
2000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

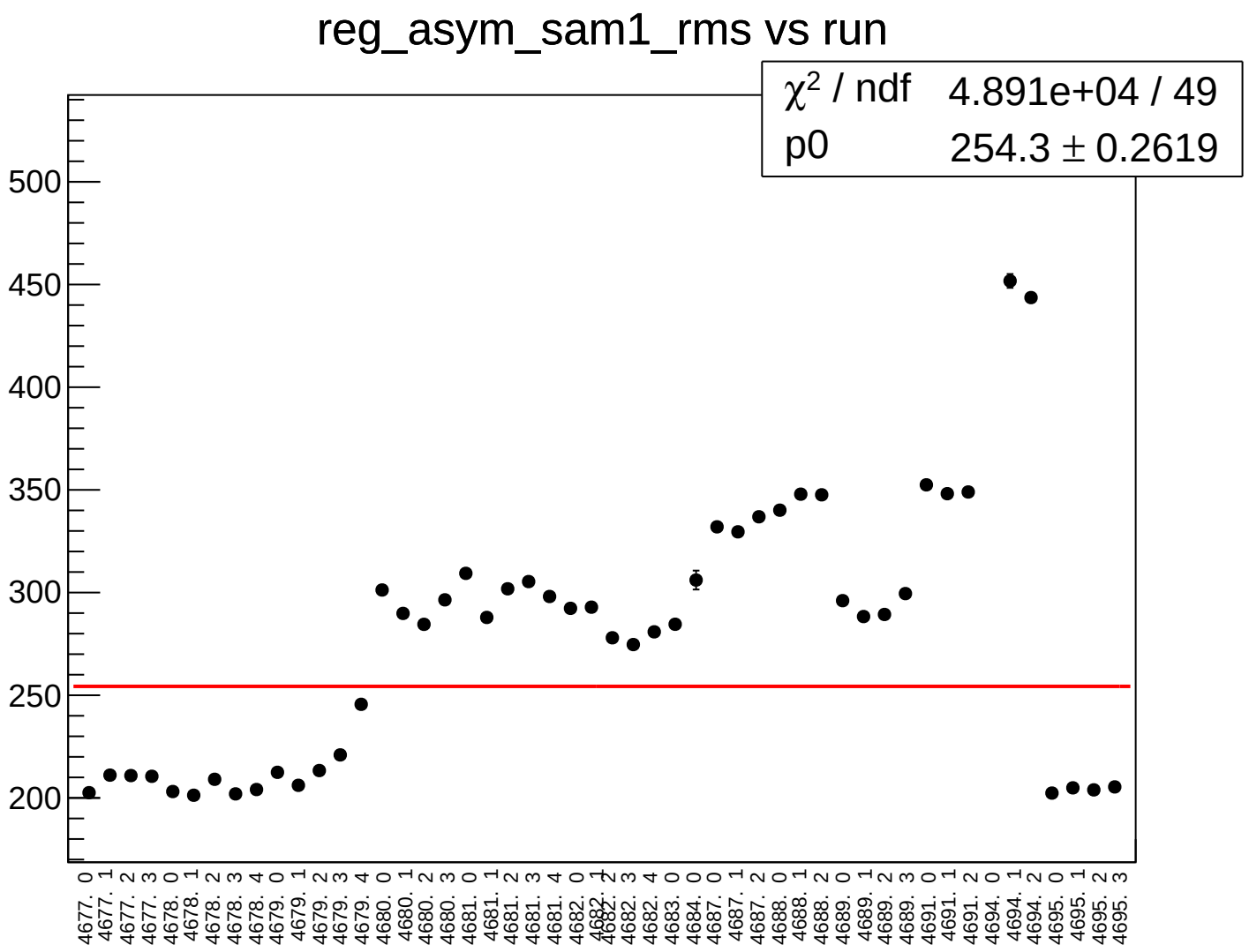

cor_sam8_mean vs run
×10^3
χ^2 / ndf 61.05 / 49
p0 1354 ± 3288
200
150
100
50
0
−50
−100
−150
−200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 97.13
Std Dev 74.65
2
1
0
−1
−2
−3

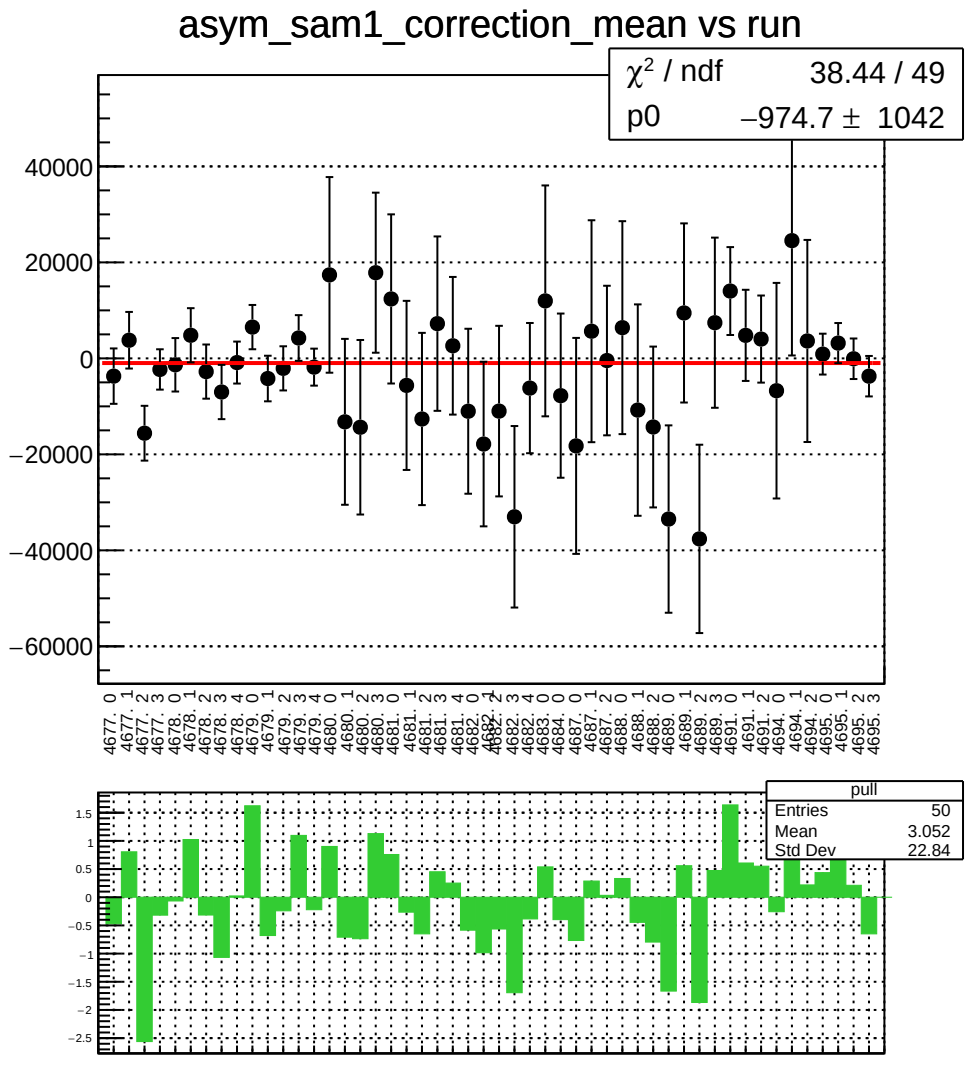

pull1D
Entries 50
Mean 0.03353
Std Dev 1.104
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

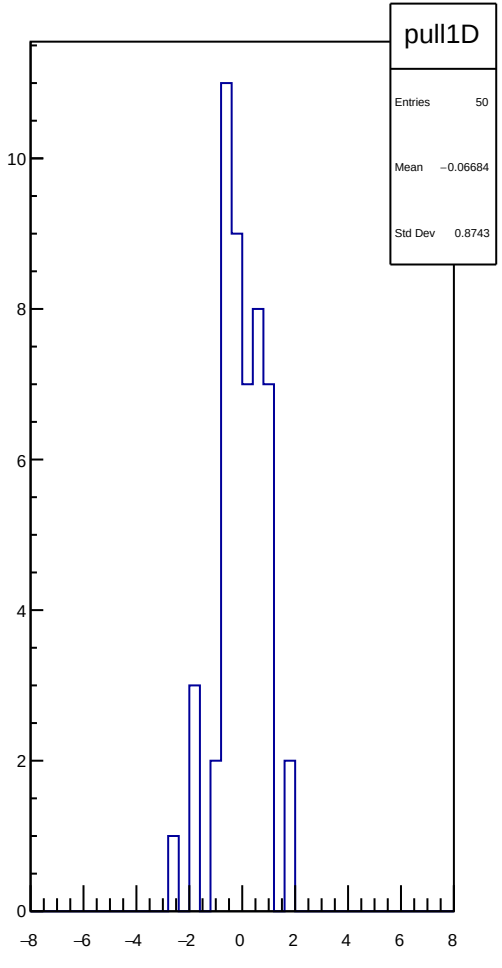

cor_sam8_rms vs run
χ² / ndf 6.566e+04 / 49
p0 2238 ± 2.325
6000
5000
4000
3000
2000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

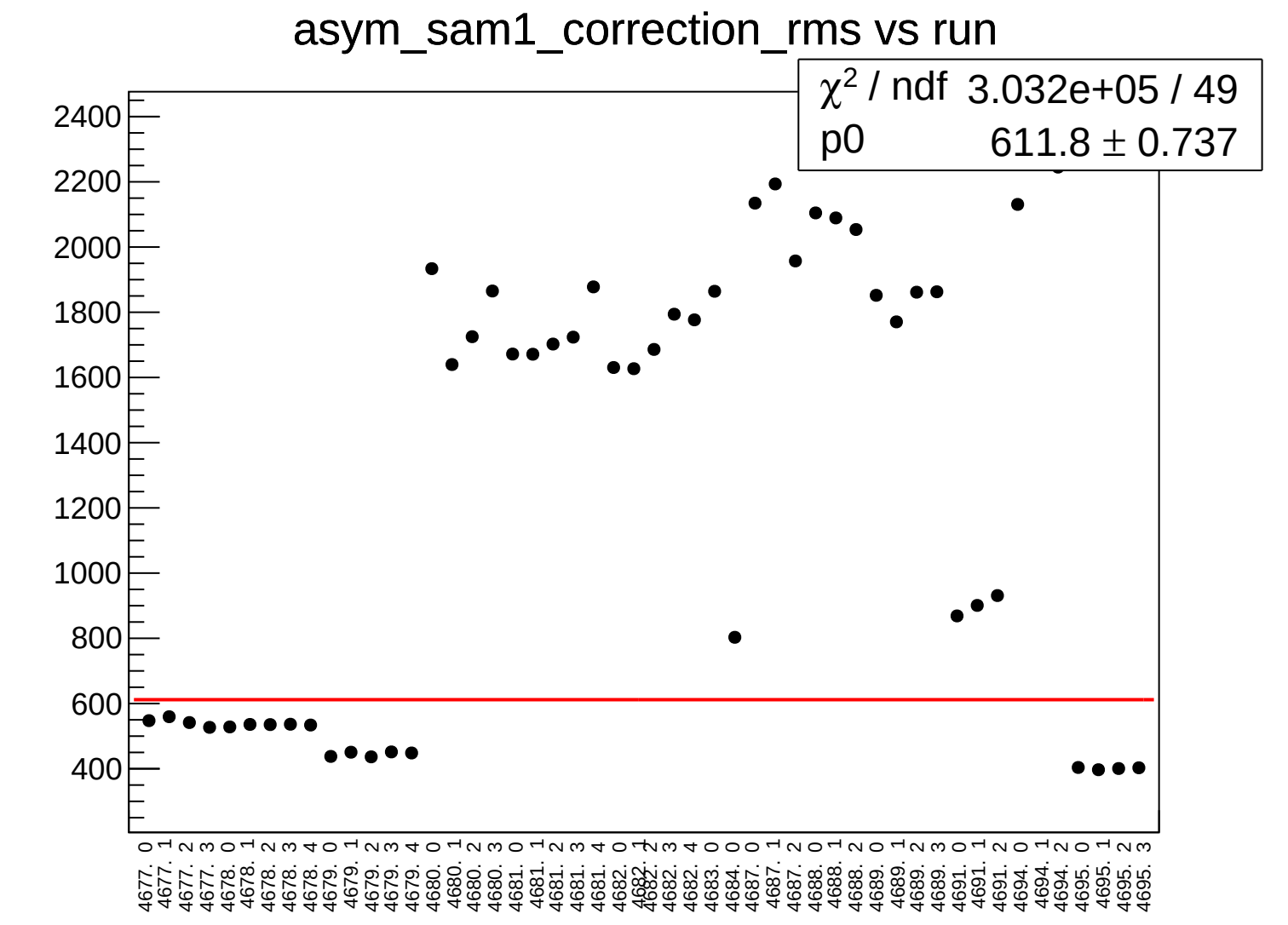

reg_asym_sam1_mean vs run
χ^2 / ndf 50.04 / 49
p0 589.7 ± 370.3
20000
15000
10000
5000
0
−5000
−10000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 33.3
Std Dev 23.93
2
1
0
−1
−2

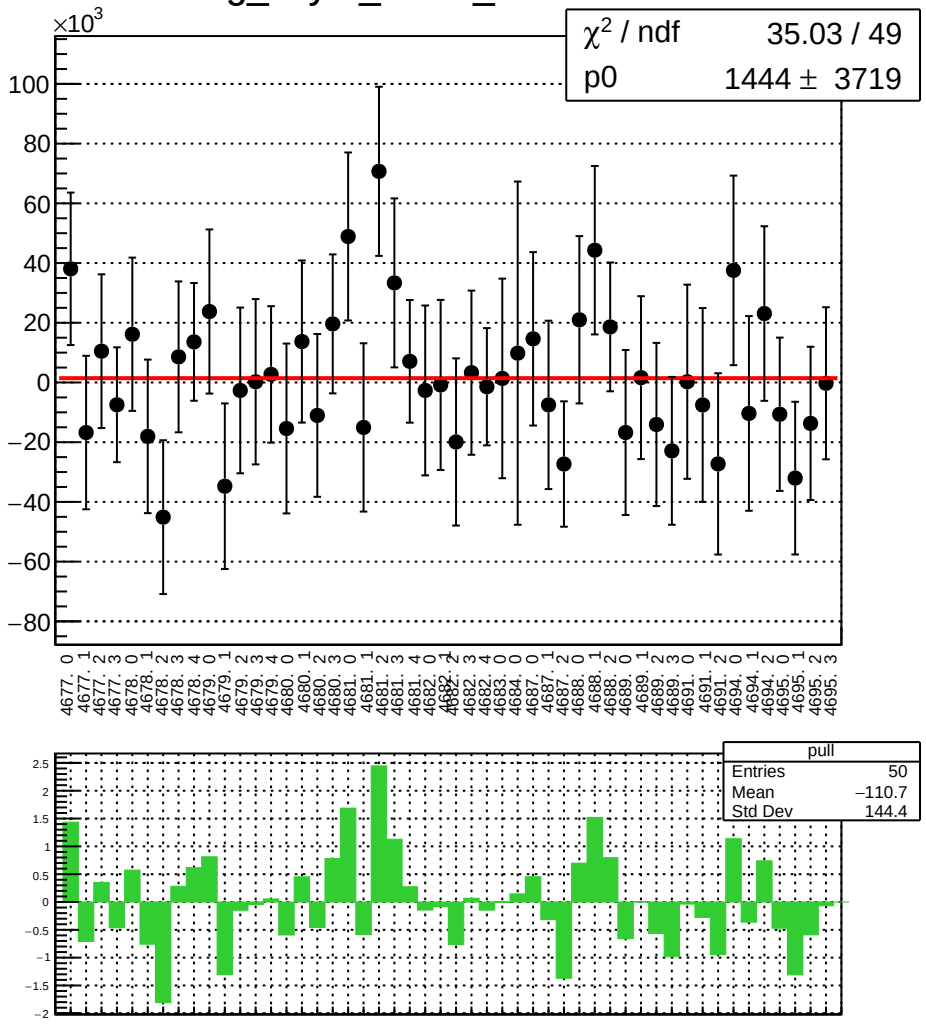

pull1D
Entries 50
Mean 0.06259
Std Dev 0.9985
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

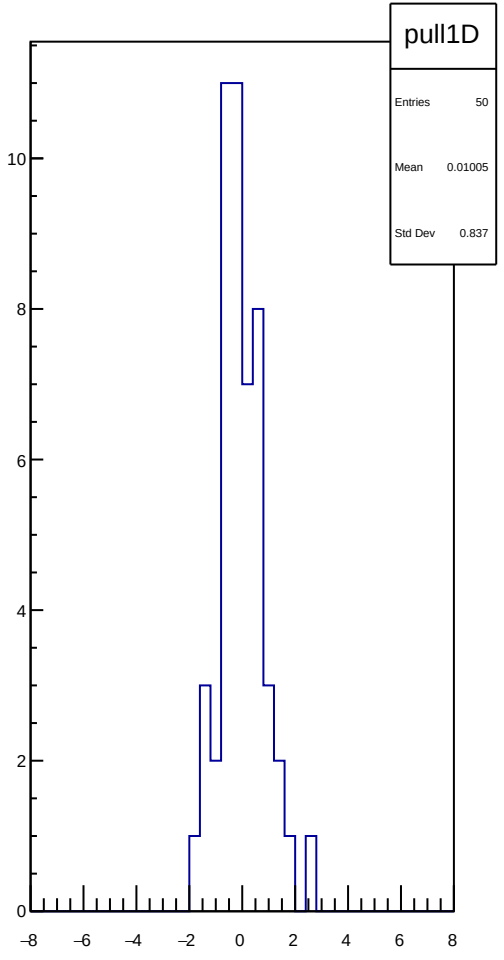

reg_asym_sam1_rms vs run
χ² / ndf 4.891e+04 / 49
p0 254.3 ± 0.2619
500
450
400
350
300
250
200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

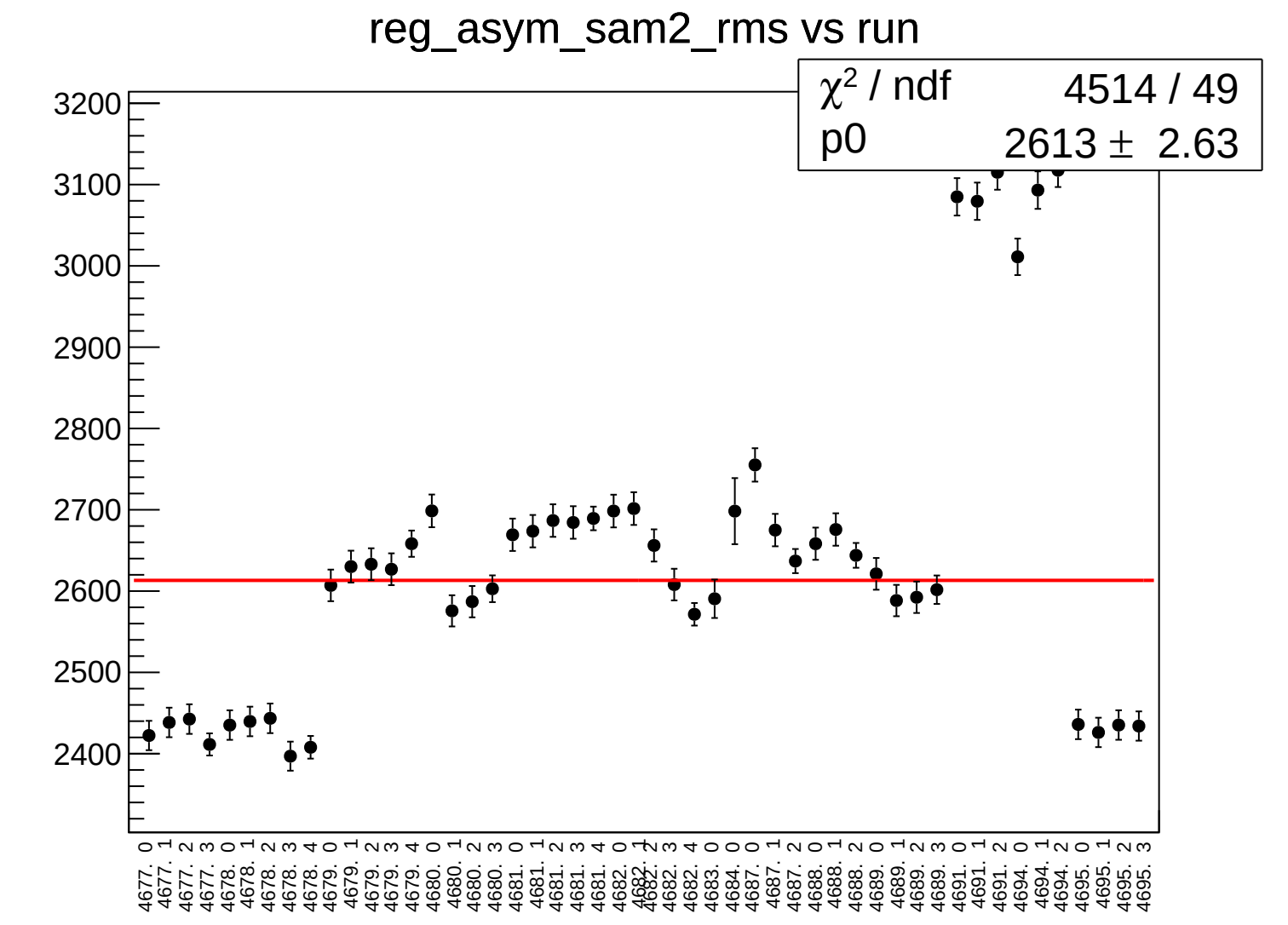

asym_sam1_correction_mean vs run
χ² / ndf 38.44 / 49
p0 −974.7 ± 1042
40000
20000
0
−20000
−40000
−60000
pull
Entries 50
Mean 3.052
Std Dev 22.84
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 50
Mean −0.06684
Std Dev 0.8743
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_correction_rms vs run
χ² / ndf 3.032e+05 / 49
p0 611.8 ± 0.737
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


reg_asym_sam2_mean vs run
×10^3
χ^2 / ndf 35.03 / 49
p0 1444 ± 3719
pull
Entries 50
Mean −110.7
Std Dev 144.4


pull1D
Entries 50
Mean 0.01005
Std Dev 0.837


reg_asym_sam2_rms vs run
χ² / ndf 4514 / 49
p0 2613 ± 2.63
3200
3100
3000
2900
2800
2700
2600
2500
2400
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
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4695. 0
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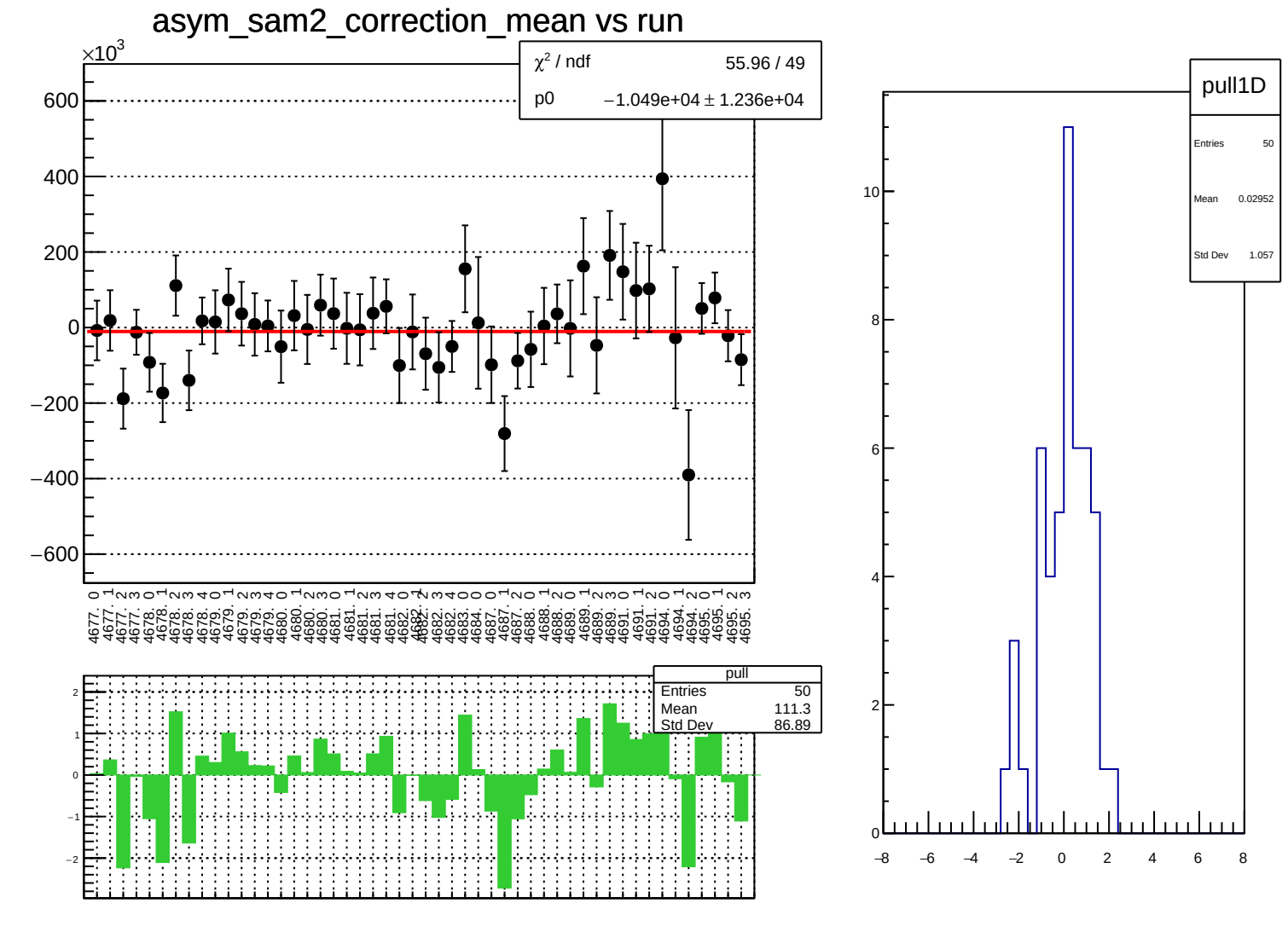
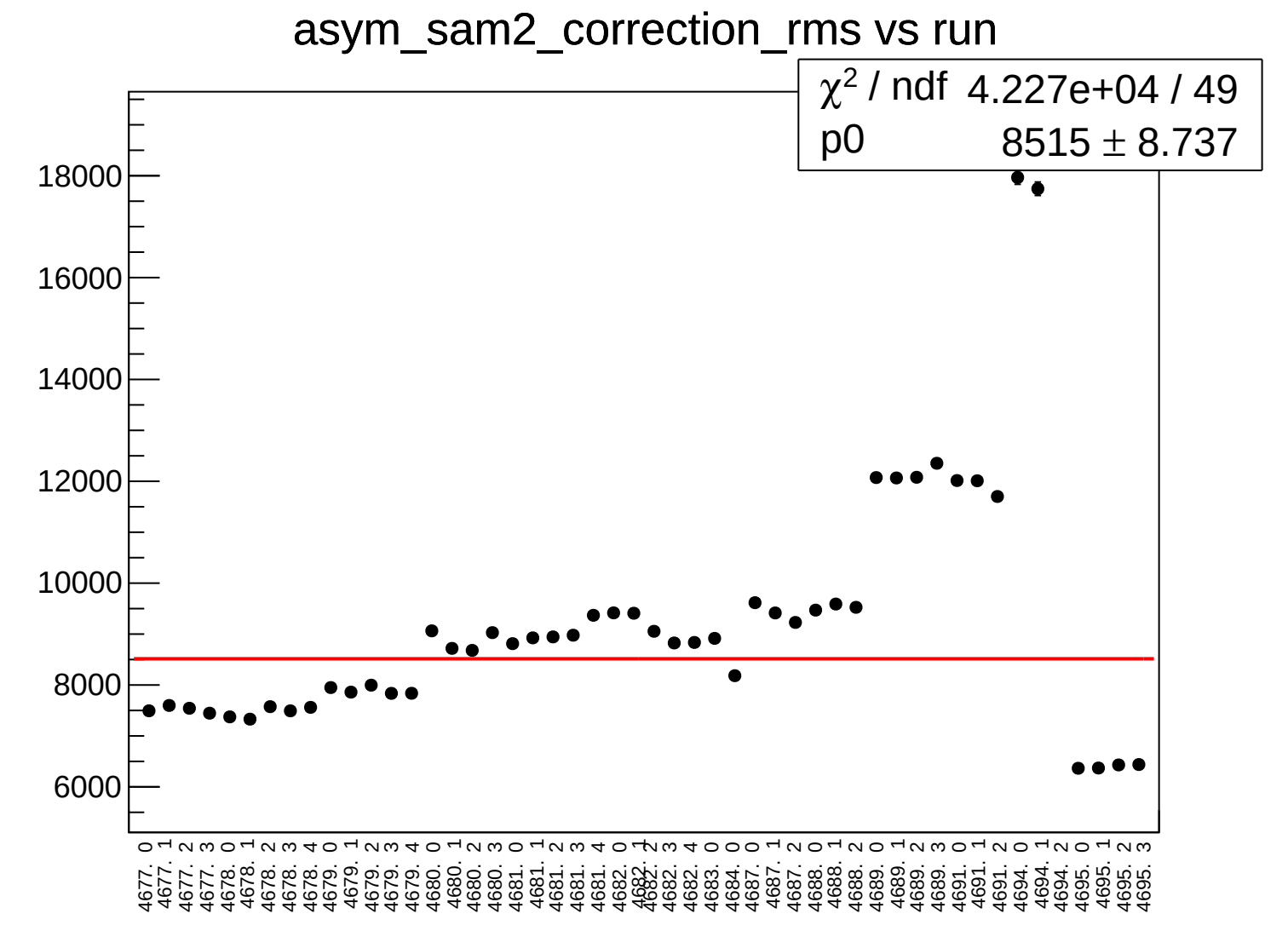
4695. 2
4695. 3


asym_sam2_correction_mean vs run
×10^3
χ² / ndf 55.96 / 49
p0 −1.049e+04 ± 1.236e+04
600
400
200
0
−200
−400
−600
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4688. 3
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 111.3
Std Dev 86.89
2
1
0
−1
−2
pull1D
Entries 50
Mean 0.02952
Std Dev 1.057
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_correction_rms vs run
χ² / ndf 4.227e+04 / 49
p0 8515 ± 8.737
18000
16000
14000
12000
10000
8000
6000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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4691. 2
4694. 0
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4694. 2
4695. 0
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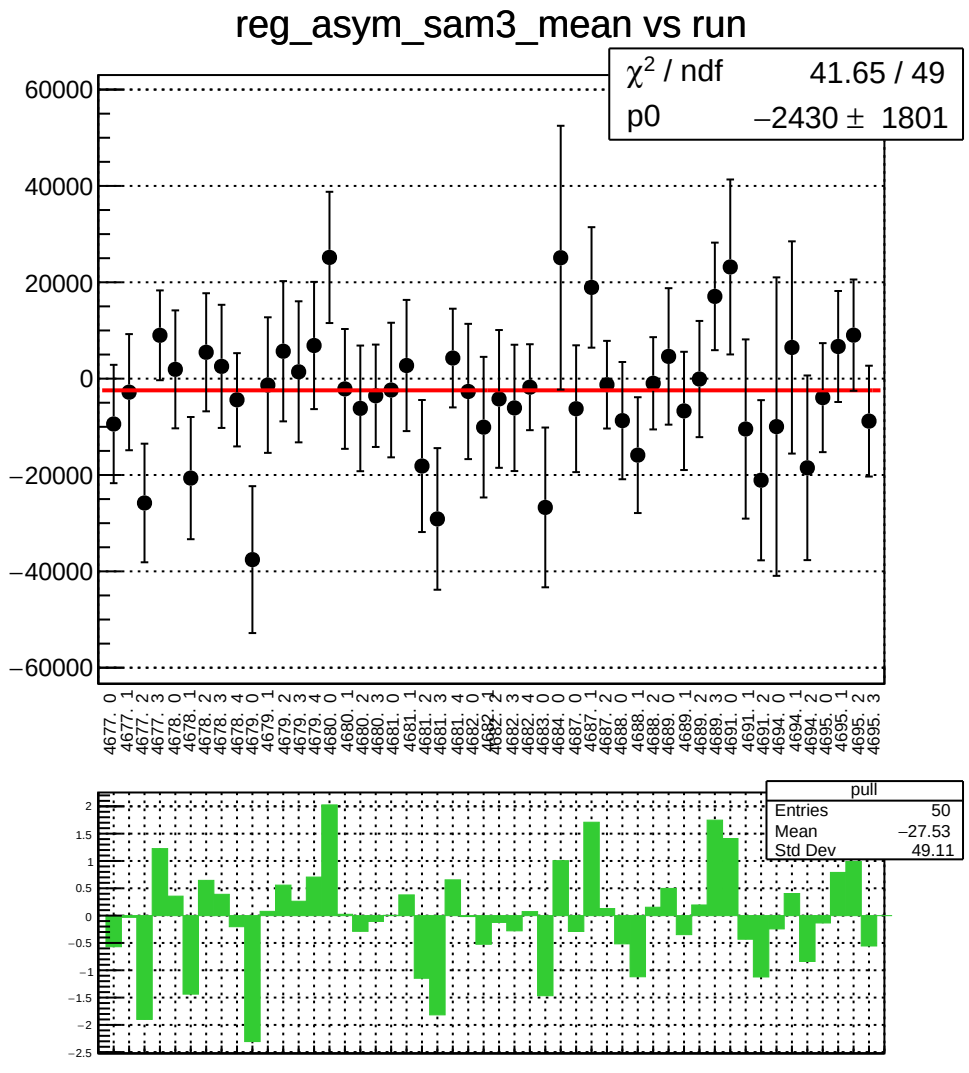
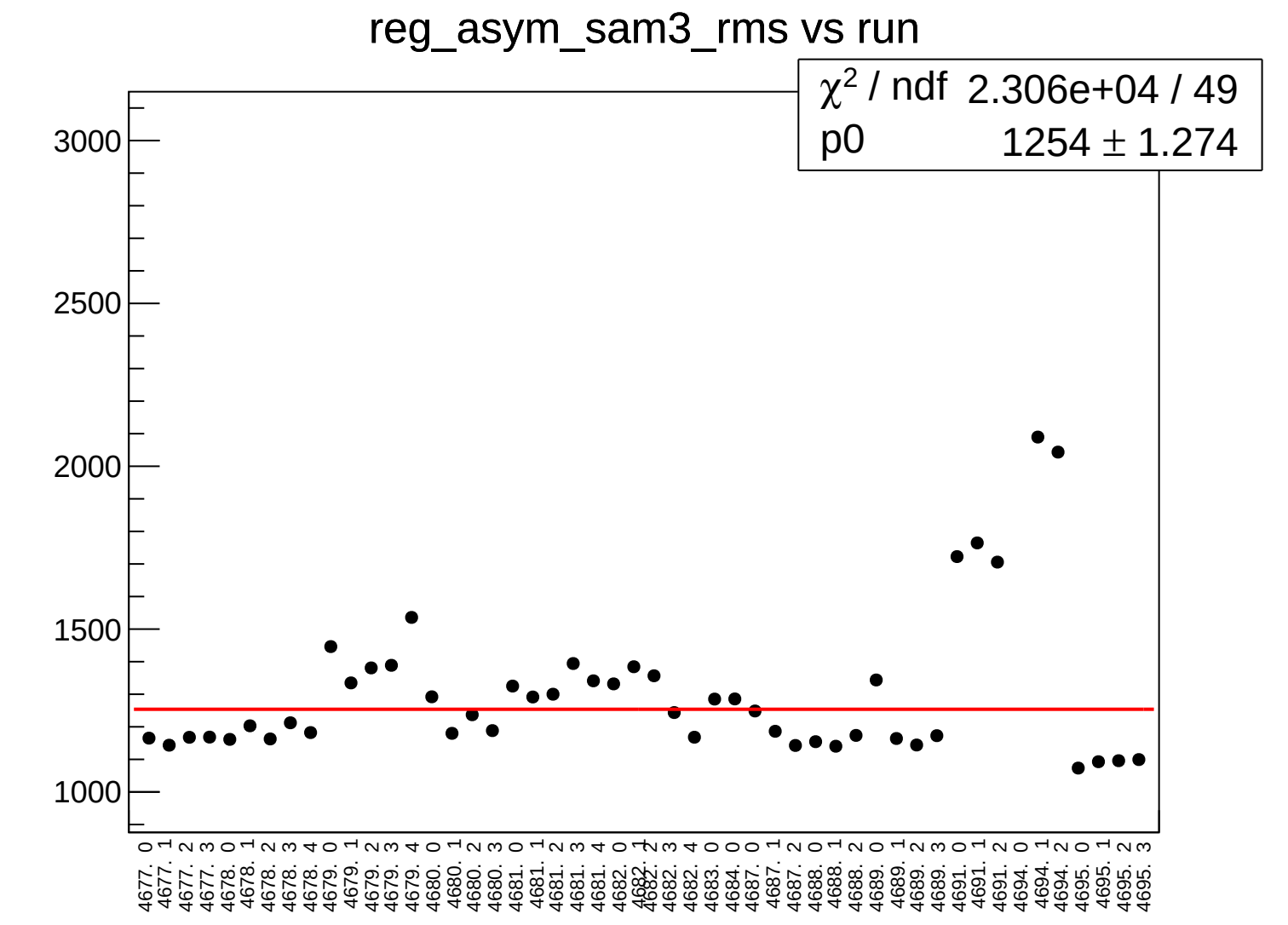
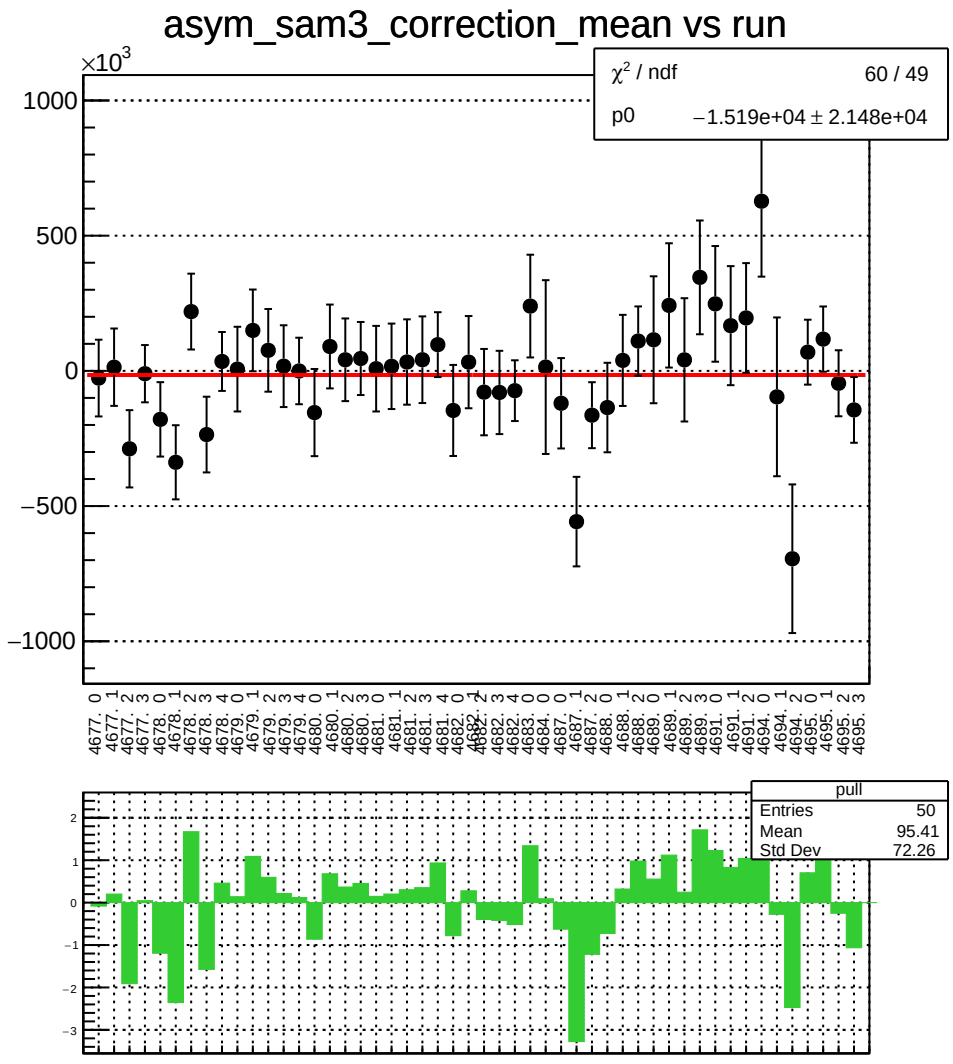
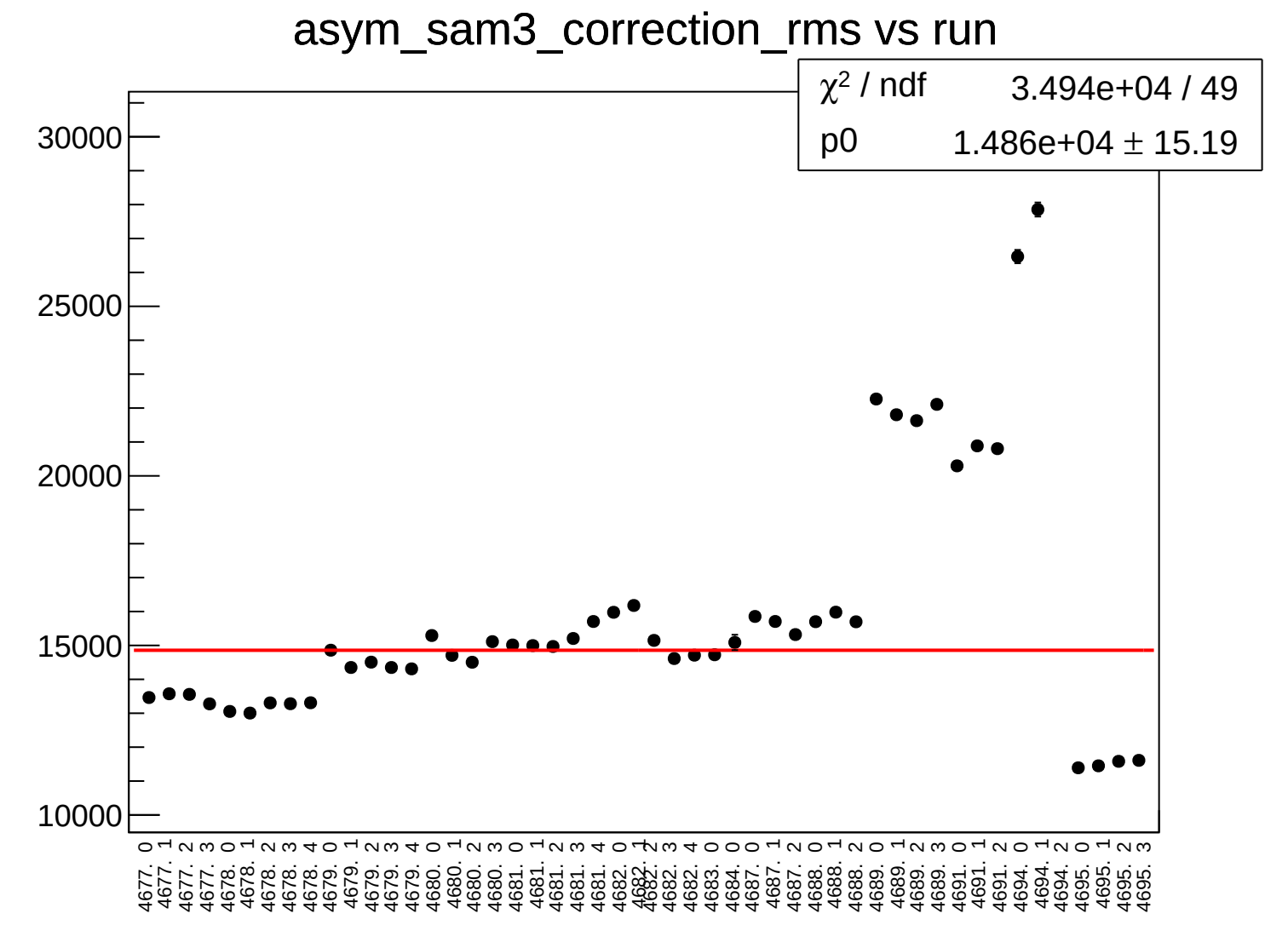
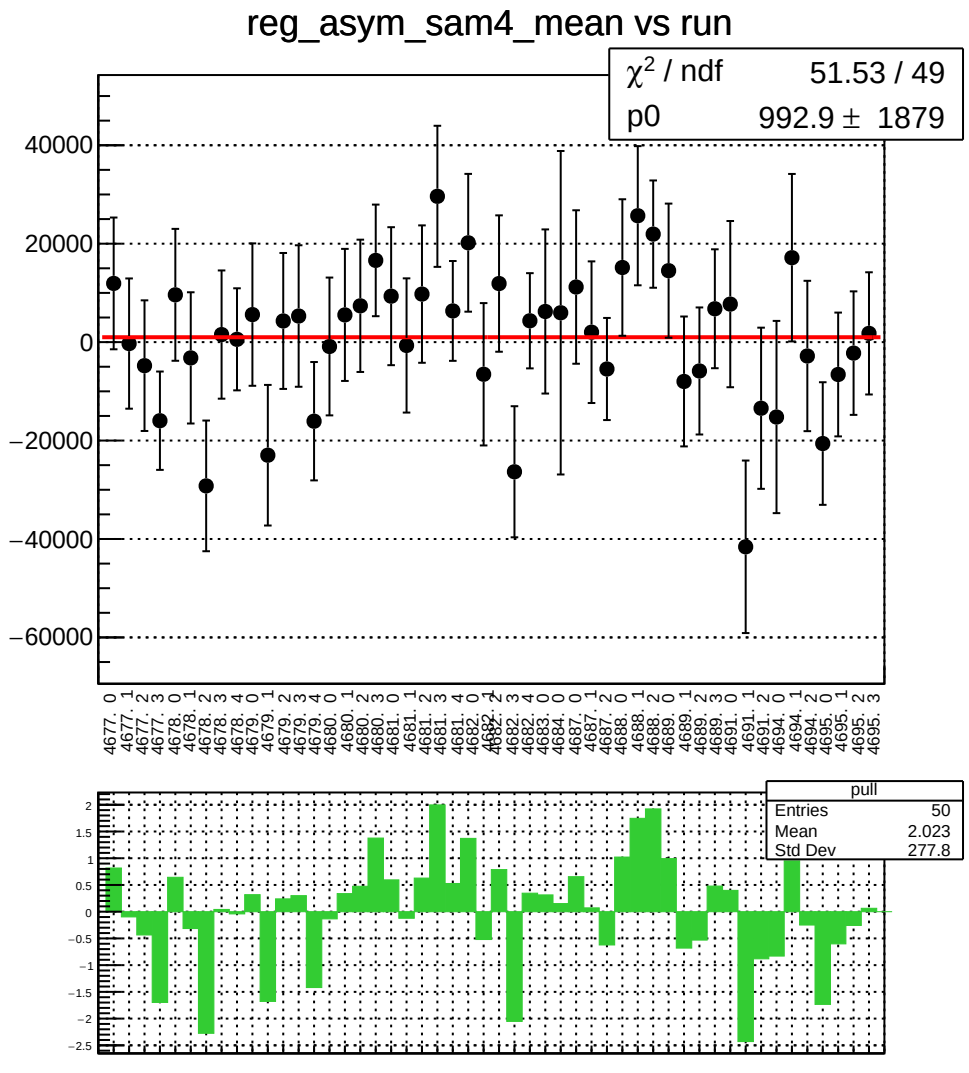
4695. 2
4695. 3

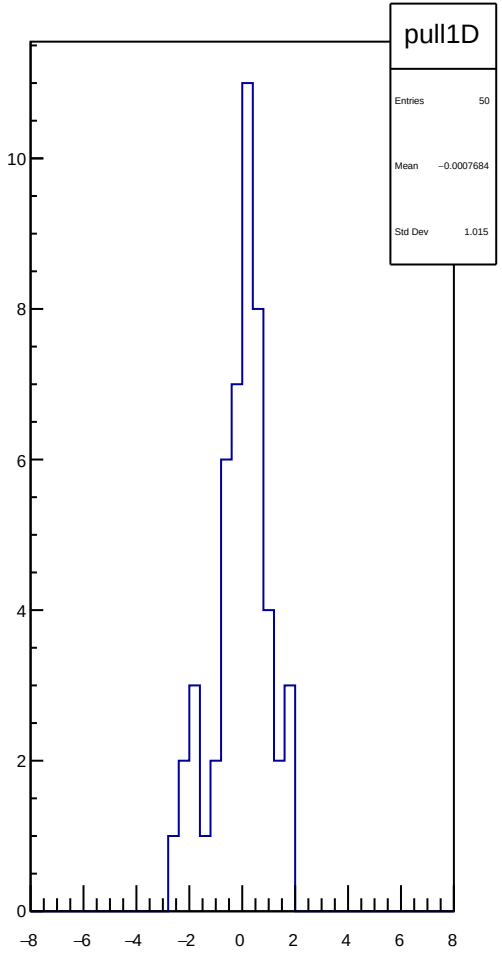

reg_asym_sam3_mean vs run
χ² / ndf 41.65 / 49
p0 −2430 ± 1801
60000
40000
20000
0
−20000
−40000
−60000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean −27.53
Std Dev 49.11
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 50
Mean −0.02788
Std Dev 0.9123
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

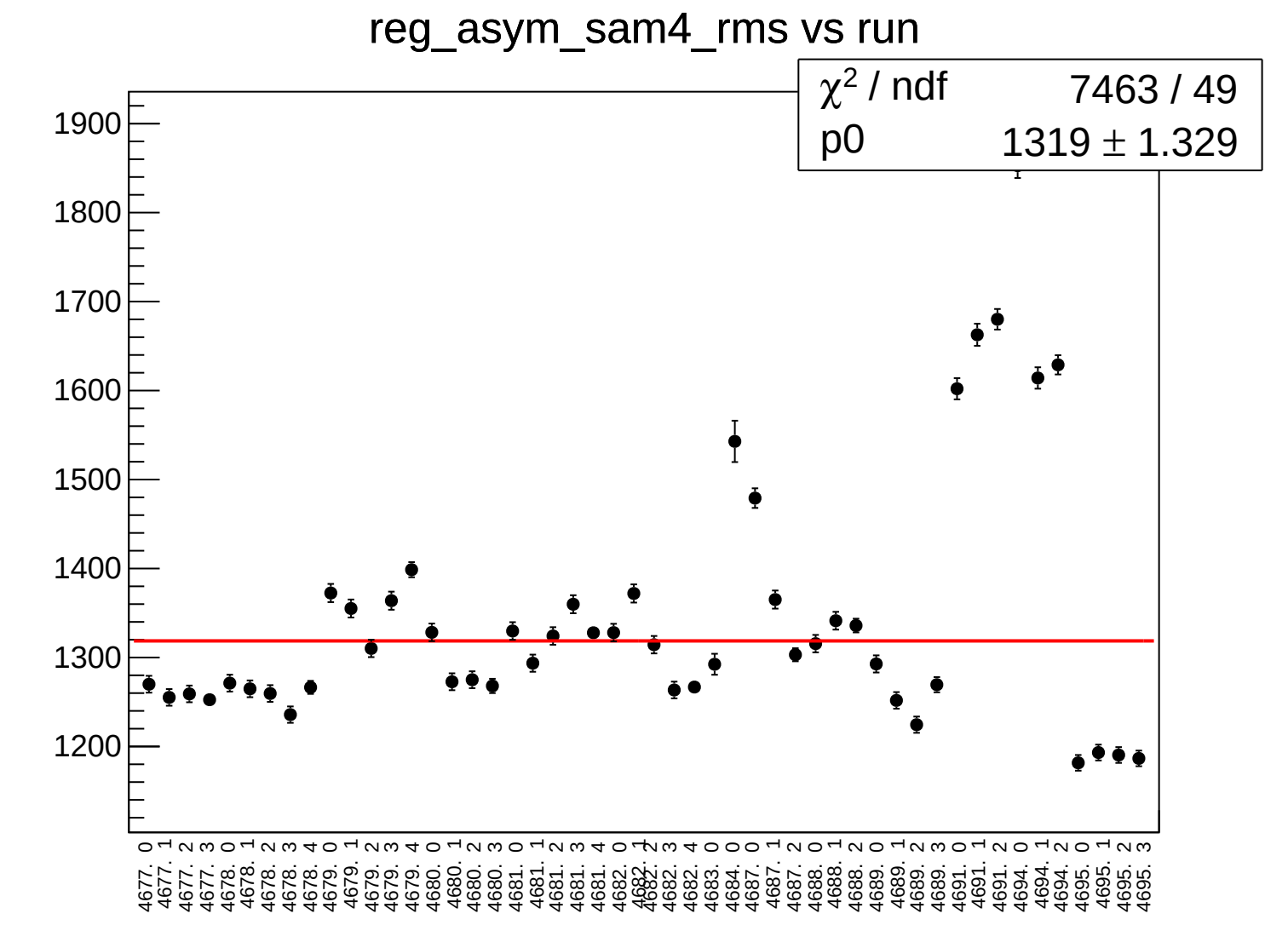

reg_asym_sam3_rms vs run
χ² / ndf 2.306e+04 / 49
p0 1254 ± 1.274
3000
2500
2000
1500
1000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

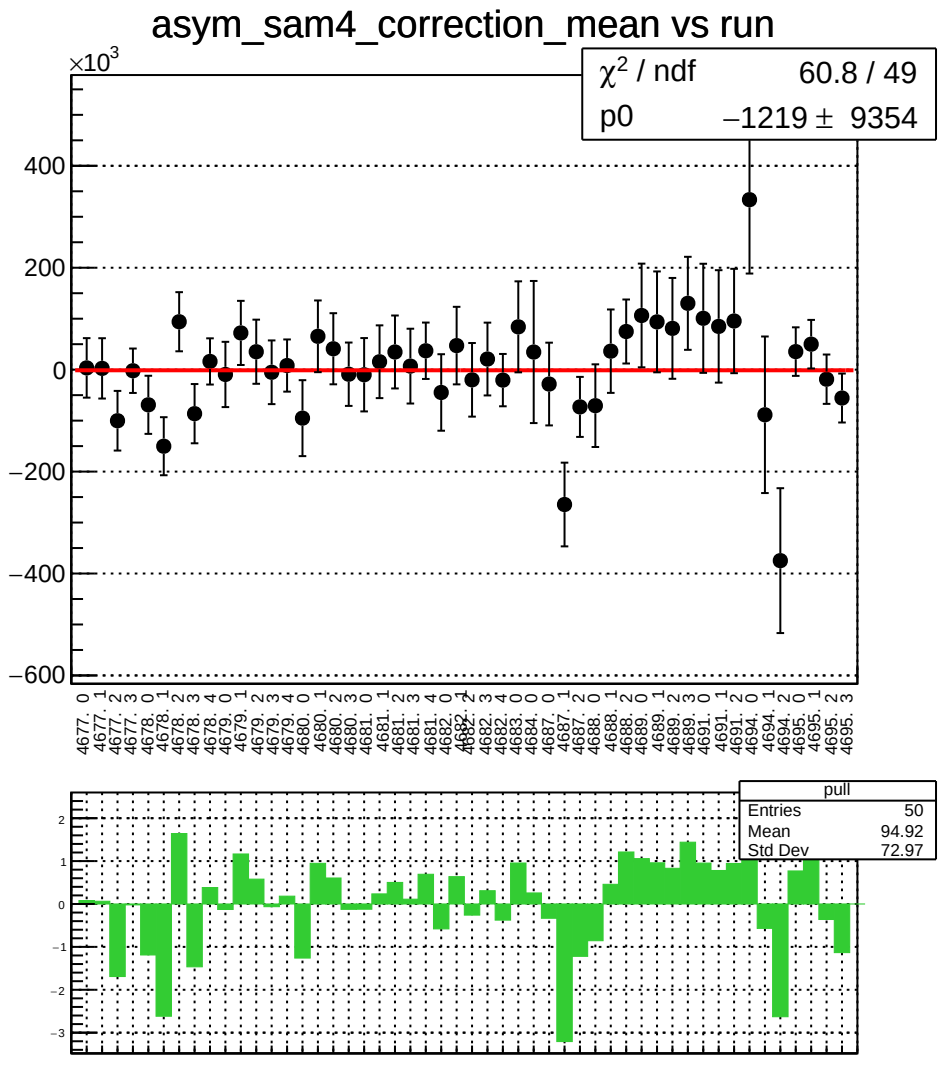

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 60 / 49
p0 −1.519e+04 ± 2.148e+04
1000
500
0
−500
−1000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 95.41
Std Dev 72.26
2
1
0
−1
−2
−3
pull1D
Entries 50
Mean 0.03662
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

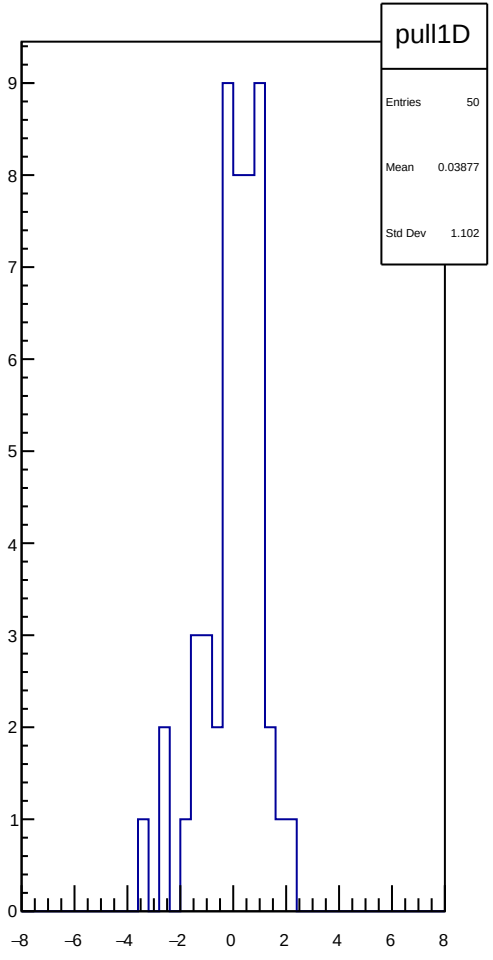

asym_sam3_correction_rms vs run
χ² / ndf 3.494e+04 / 49
p0 1.486e+04 ± 15.19
30000
25000
20000
15000
10000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

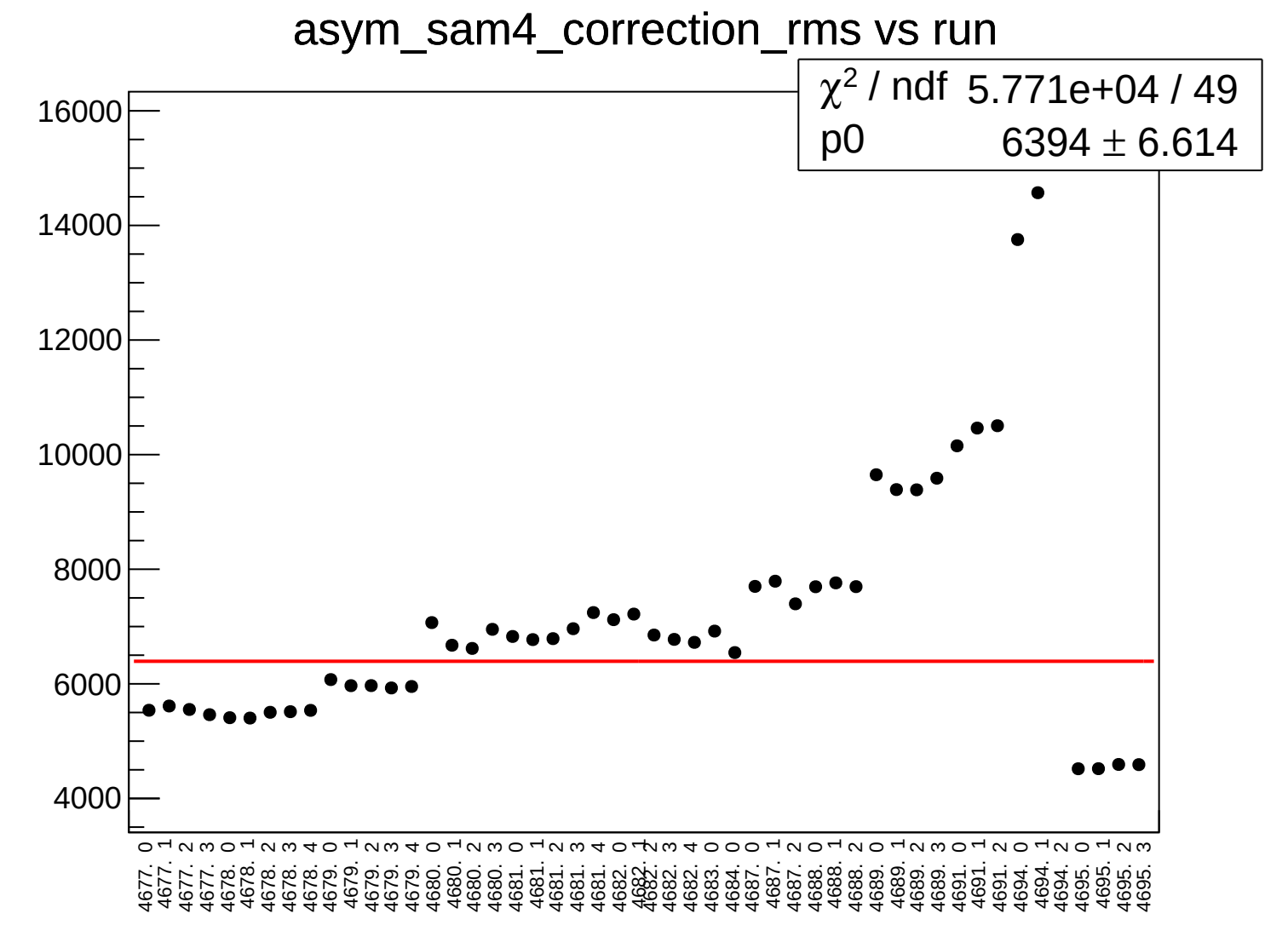

reg_asym_sam4_mean vs run
χ² / ndf 51.53 / 49
p0 992.9 ± 1879
40000
20000
0
−20000
−40000
−60000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4688. 3
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 2.023
Std Dev 277.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 50
Mean −0.0007684
Std Dev 1.015
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam4_rms vs run
χ² / ndf 7463 / 49
p0 1319 ± 1.329
1900
1800
1700
1600
1500
1400
1300
1200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_sam4_correction_mean vs run
×10^3
χ² / ndf 60.8 / 49
p0 −1219 ± 9354
400
200
0
−200
−400
−600
pull
Entries 50
Mean 94.92
Std Dev 72.97
2
1
0
−1
−2
−3


pull1D
Entries 50
Mean 0.03877
Std Dev 1.102
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam4_correction_rms vs run
χ² / ndf 5.771e+04 / 49
p0 6394 ± 6.614
16000
14000
12000
10000
8000
6000
4000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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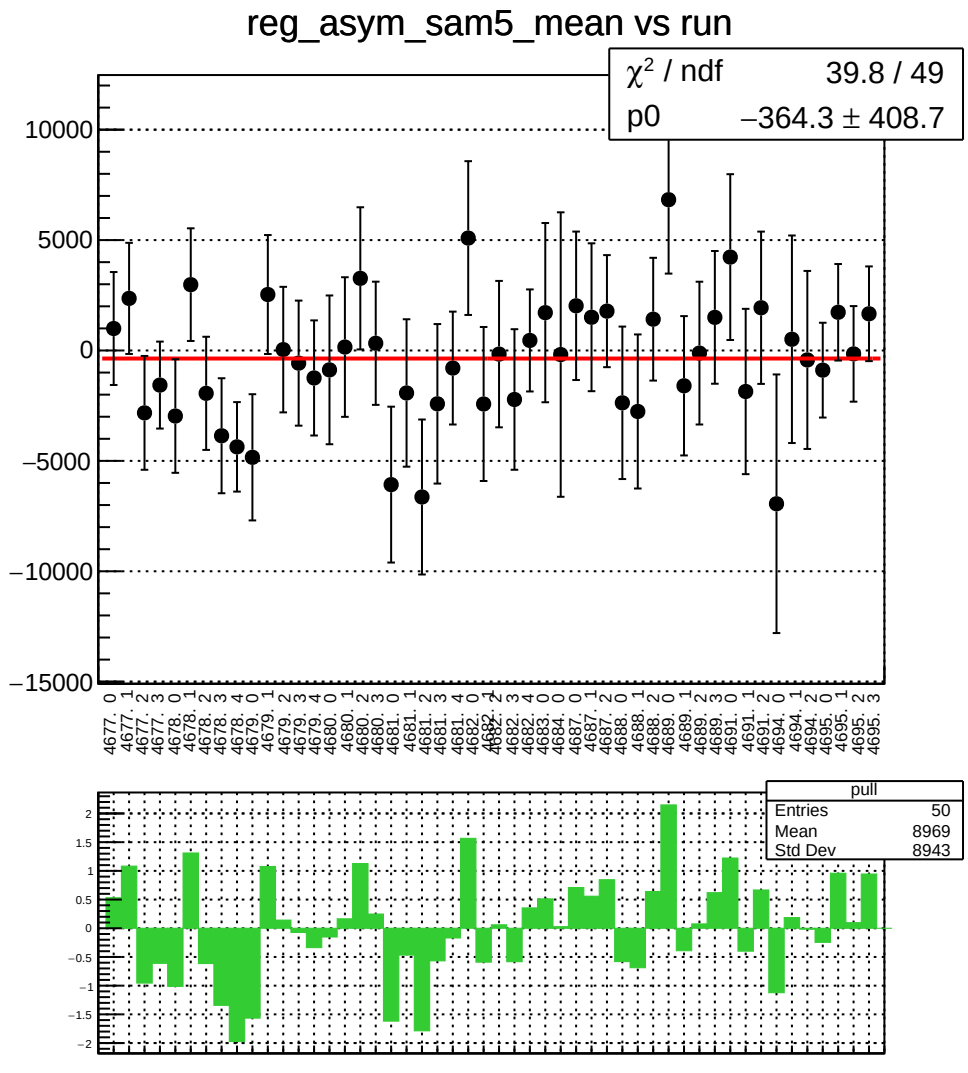
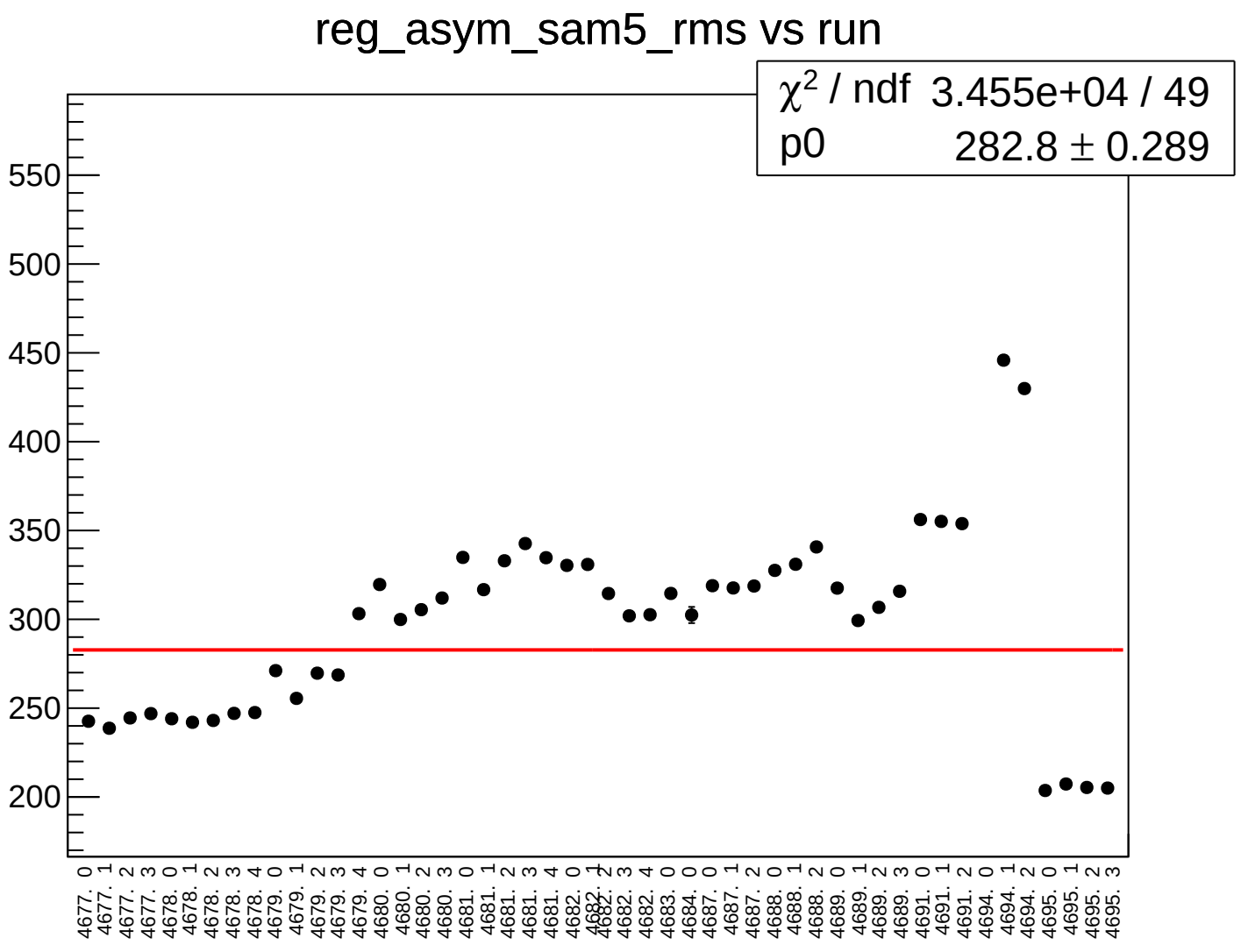
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


reg_asym_sam5_mean vs run
χ² / ndf 39.8 / 49
p0 −364.3 ± 408.7
10000
5000
0
−5000
−10000
−15000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 8969
Std Dev 8943
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean 0.0003793
Std Dev 0.8922
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam5_rms vs run
χ² / ndf 3.455e+04 / 49
p0 282.8 ± 0.289
550
500
450
400
350
300
250
200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
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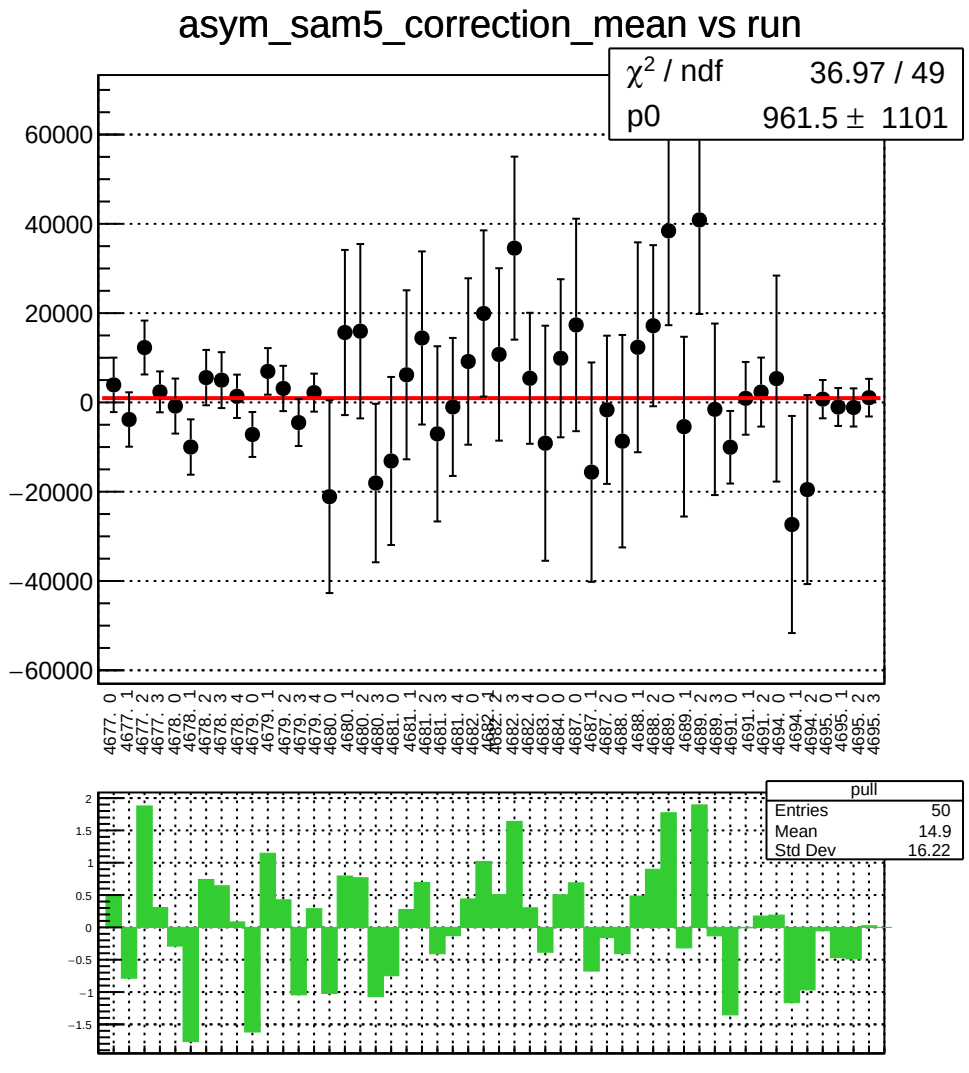
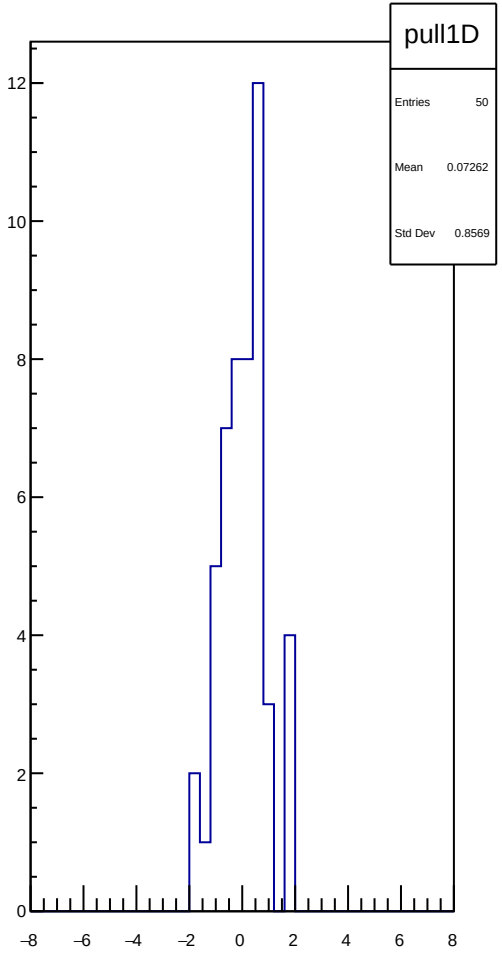
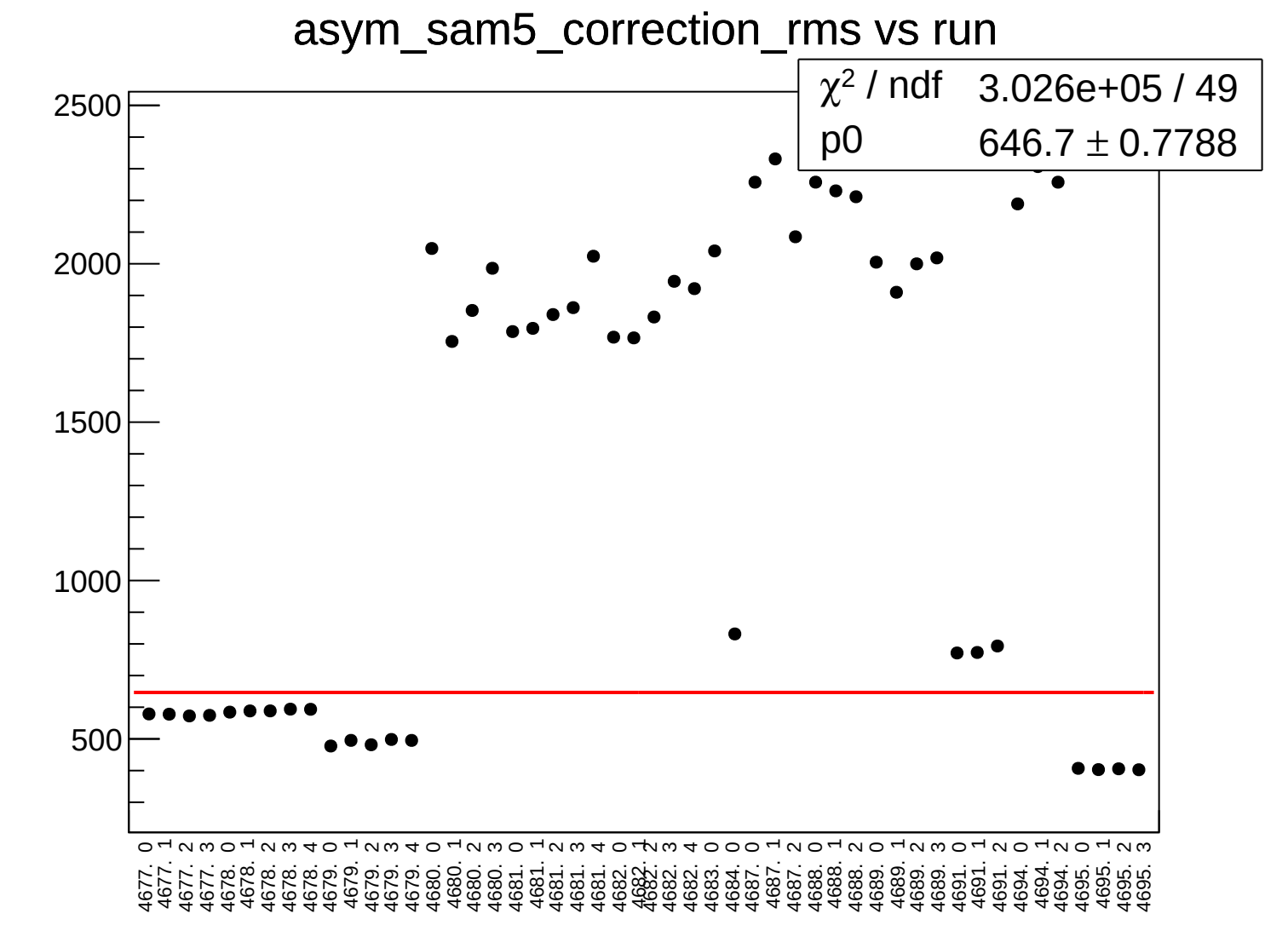
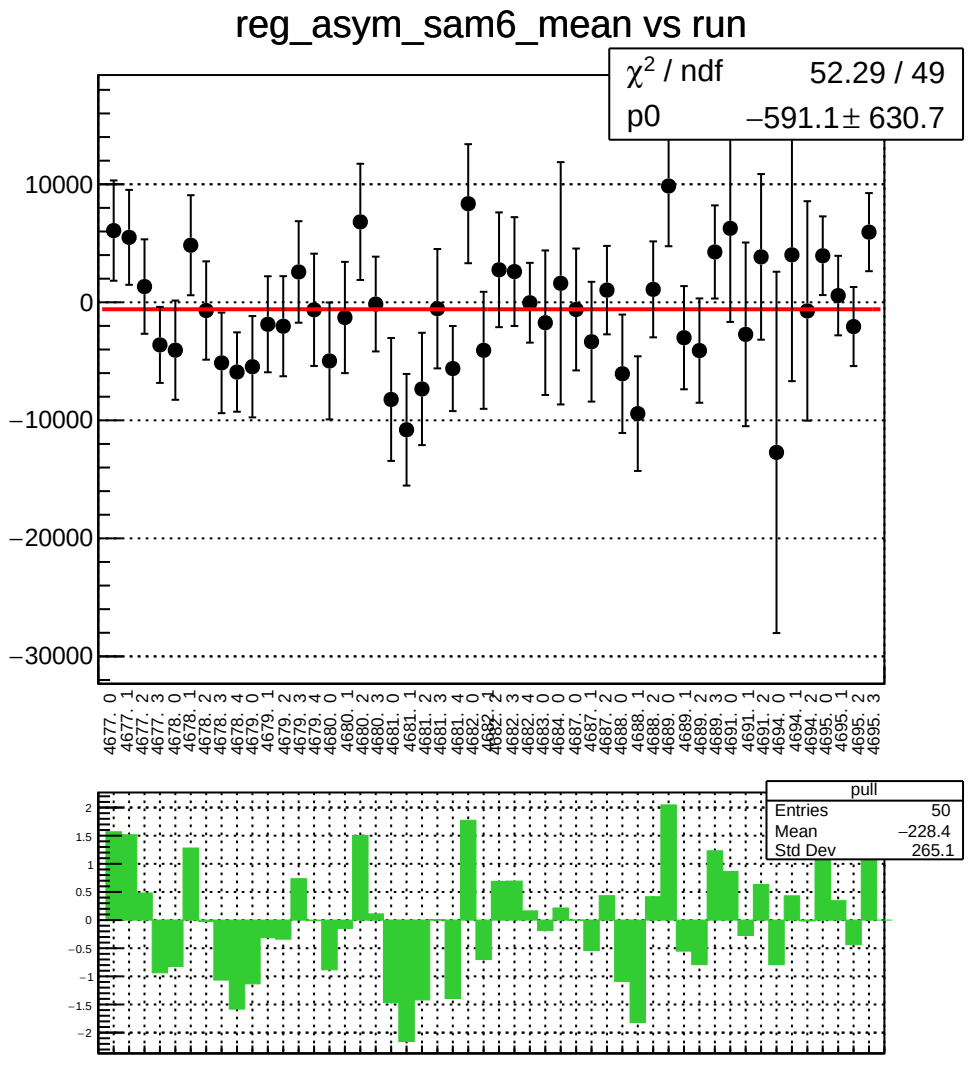
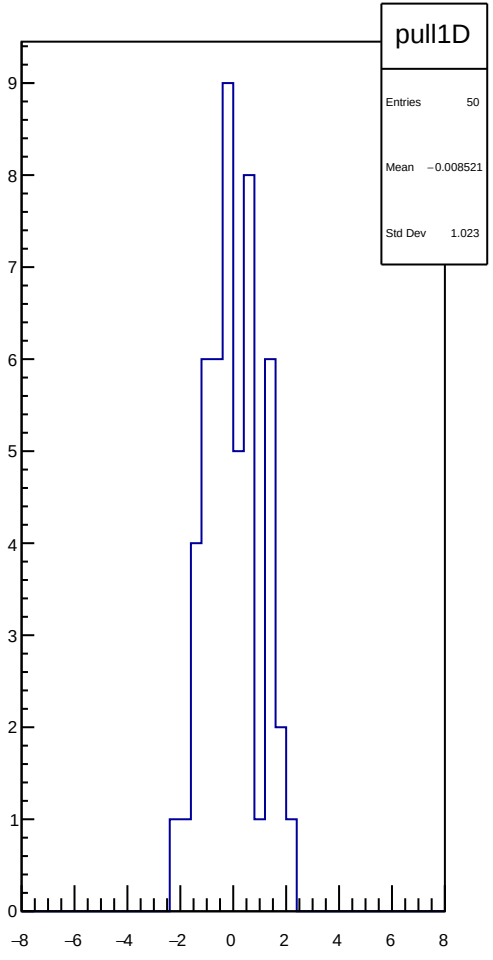
4695. 2
4695. 3

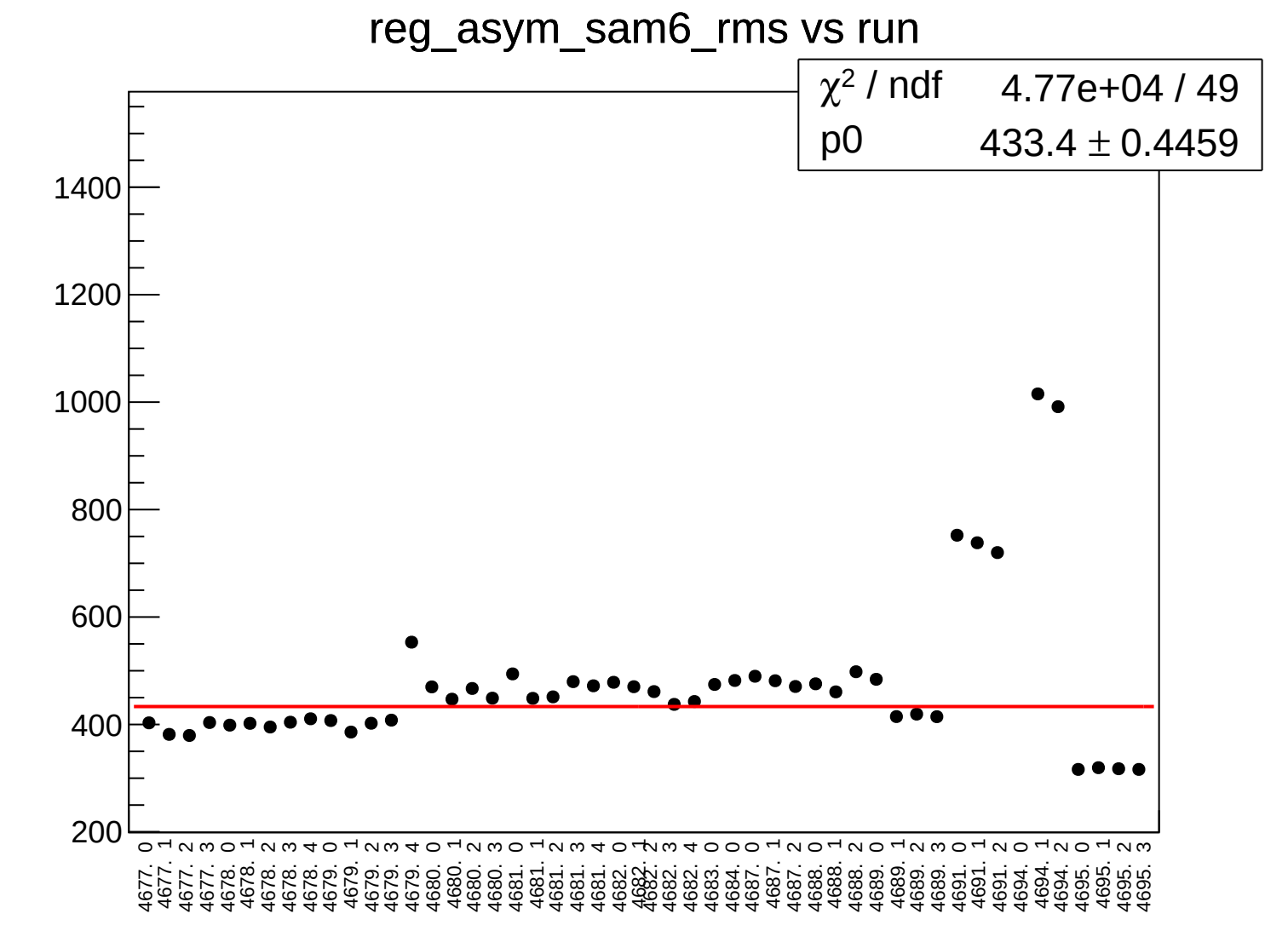

asym_sam5_correction_mean vs run
χ² / ndf 36.97 / 49
p0 961.5 ± 1101
pull
Entries 50
Mean 14.9
Std Dev 16.22

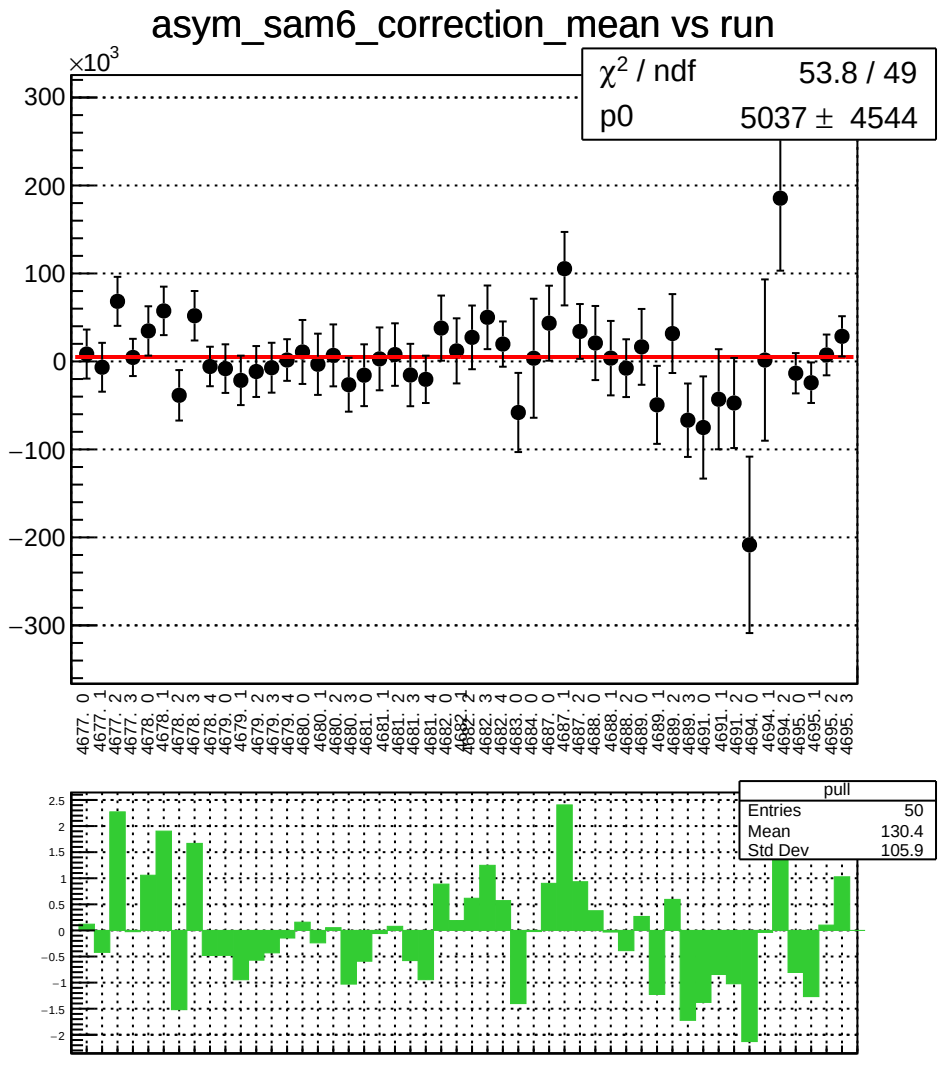

pull1D
Entries 50
Mean 0.07262
Std Dev 0.8569

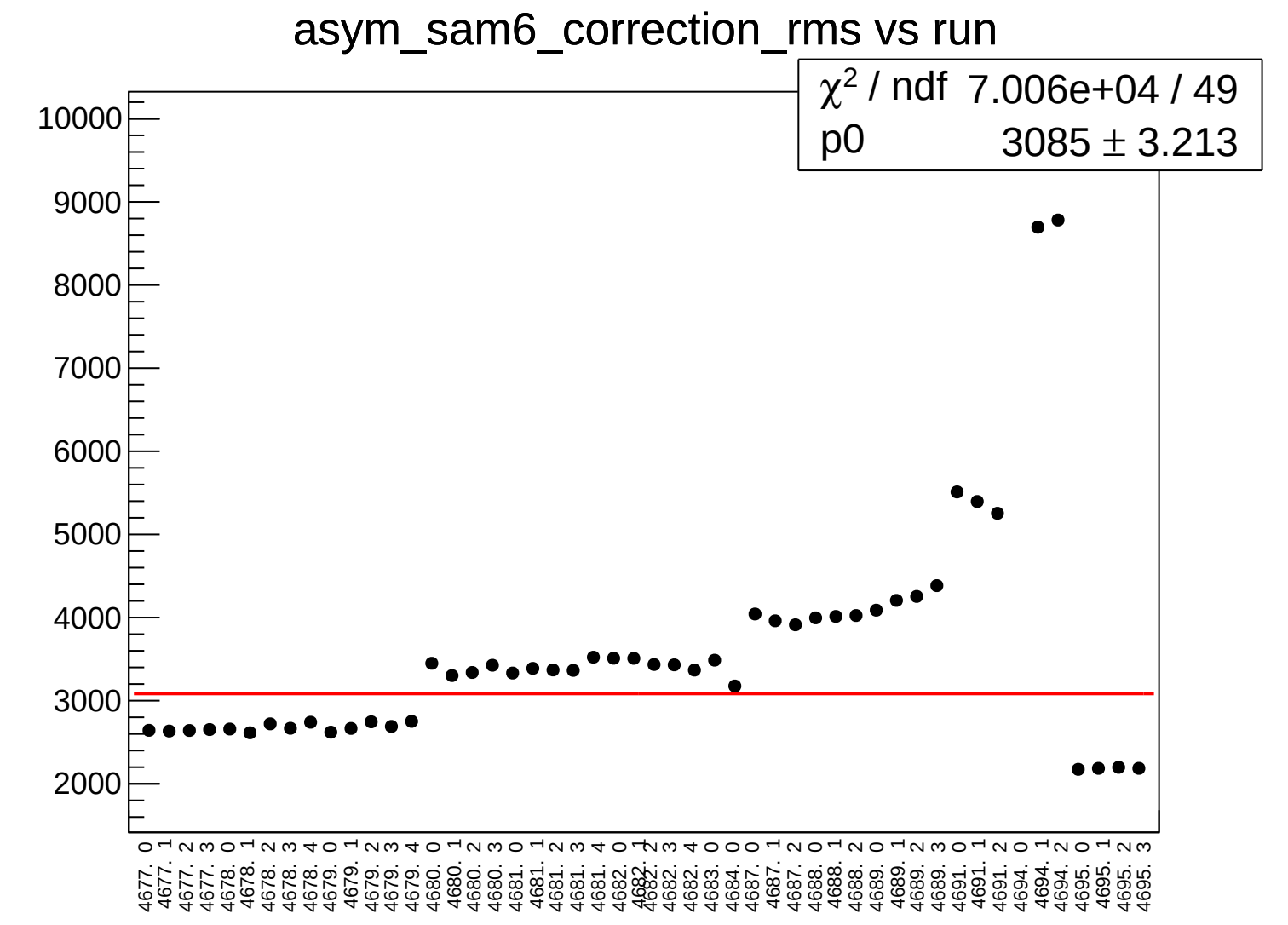

asym_sam5_correction_rms vs run
χ² / ndf 3.026e+05 / 49
p0 646.7 ± 0.7788
2500
2000
1500
1000
500
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


reg_asym_sam6_mean vs run
χ² / ndf 52.29 / 49
p0 −591.1± 630.7
10000
0
−10000
−20000
−30000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean −228.4
Std Dev 265.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean −0.008521
Std Dev 1.023
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam6_rms vs run
χ² / ndf 4.77e+04 / 49
p0 433.4 ± 0.4459
1400
1200
1000
800
600
400
200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_sam6_correction_mean vs run
×10^3
χ^2 / ndf 53.8 / 49
p0 5037 ± 4544
300
200
100
0
−100
−200
−300
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 130.4
Std Dev 105.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean −0.022
Std Dev 1.037
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_correction_rms vs run
χ² / ndf 7.006e+04 / 49
p0 3085 ± 3.213
10000
9000
8000
7000
6000
5000
4000
3000
2000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
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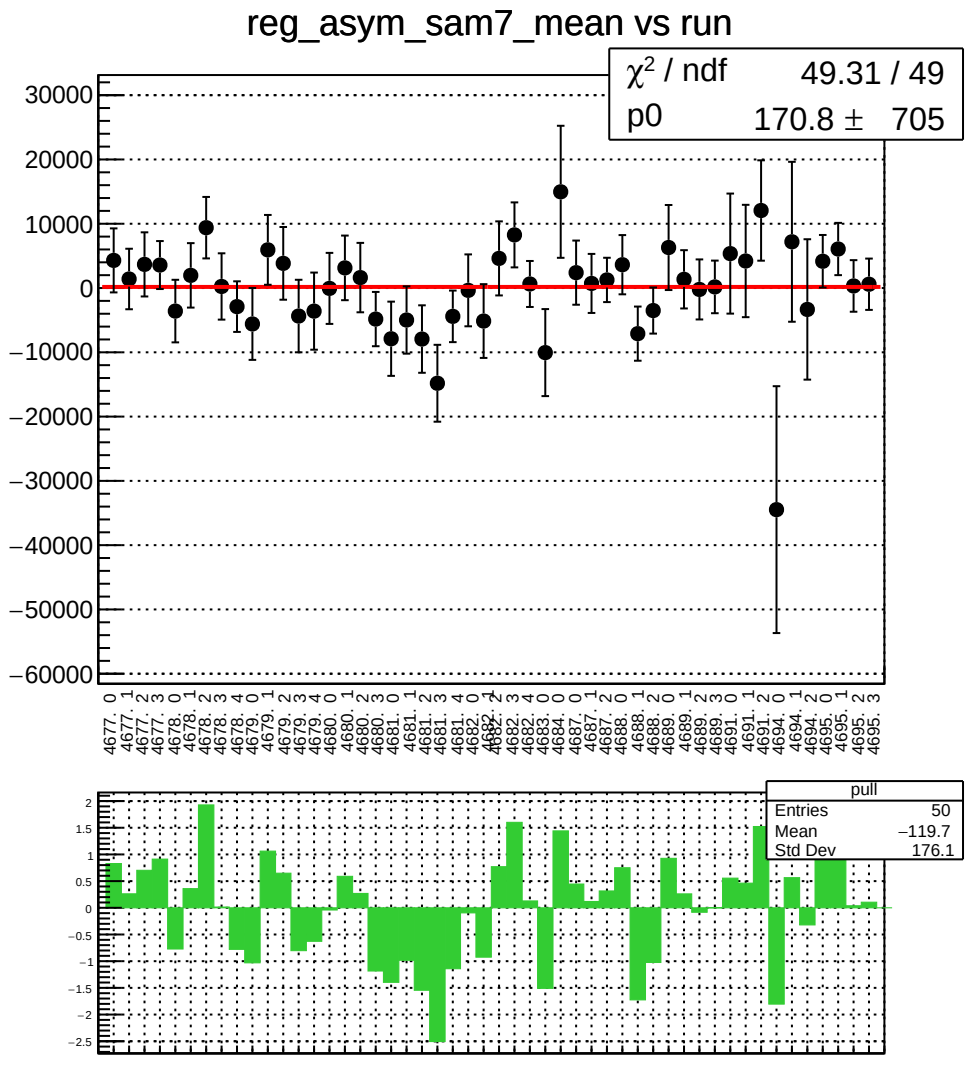
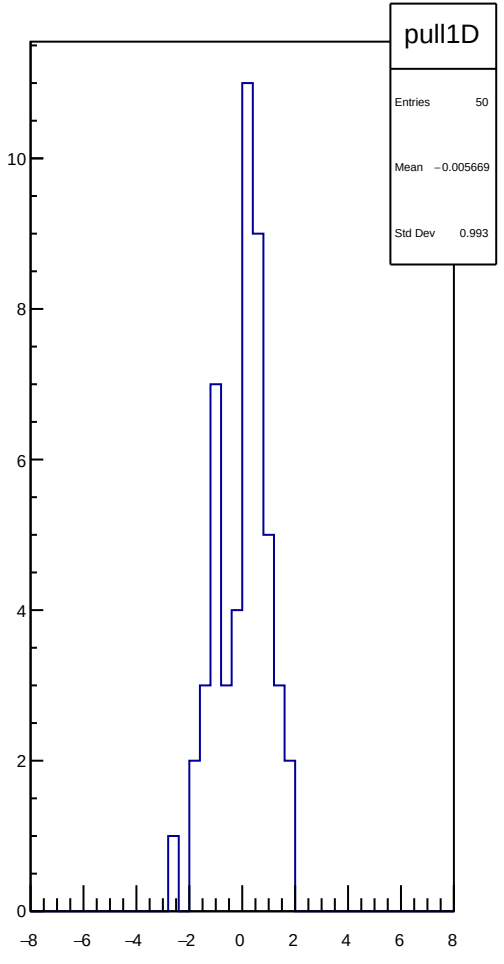
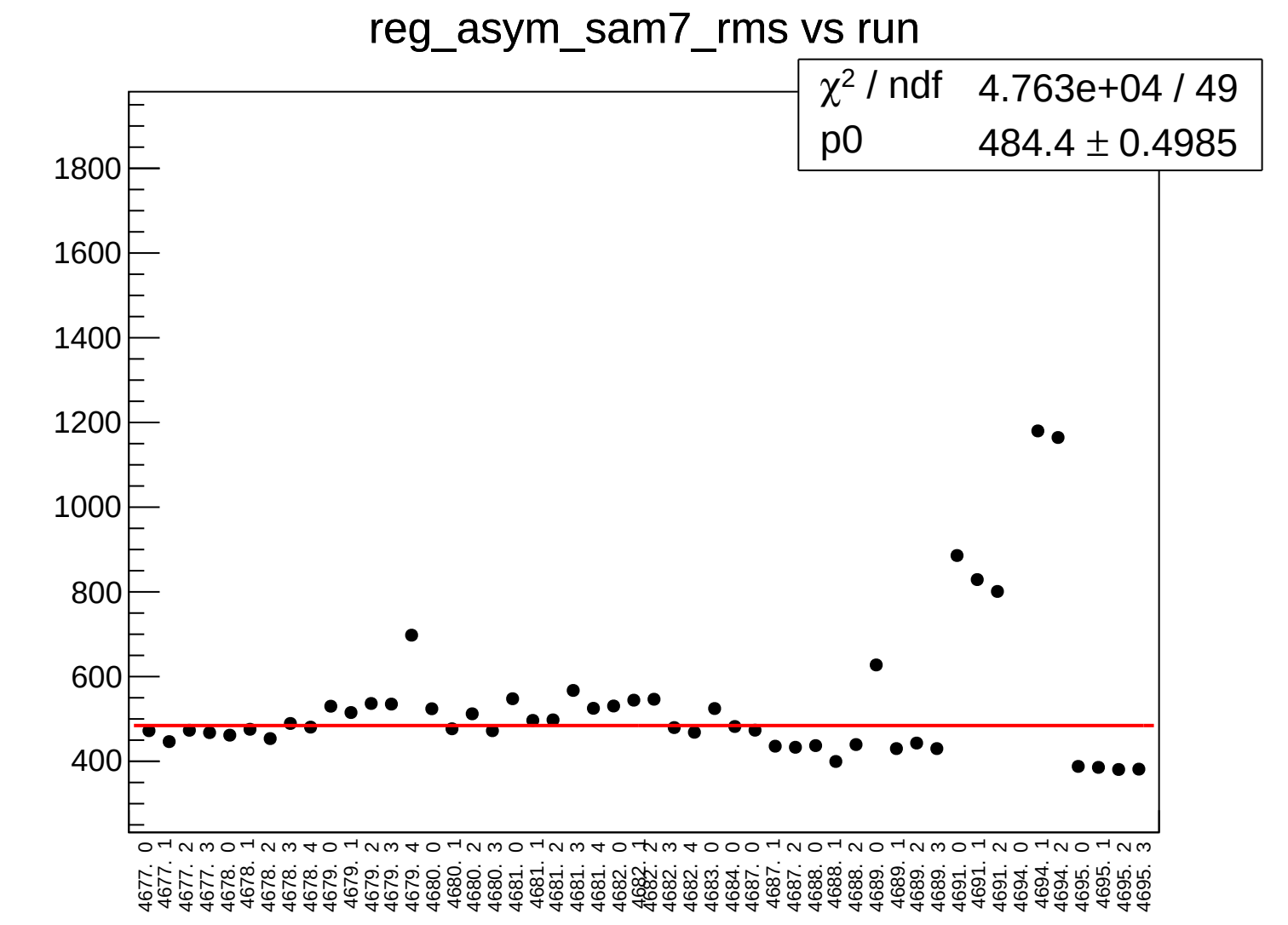
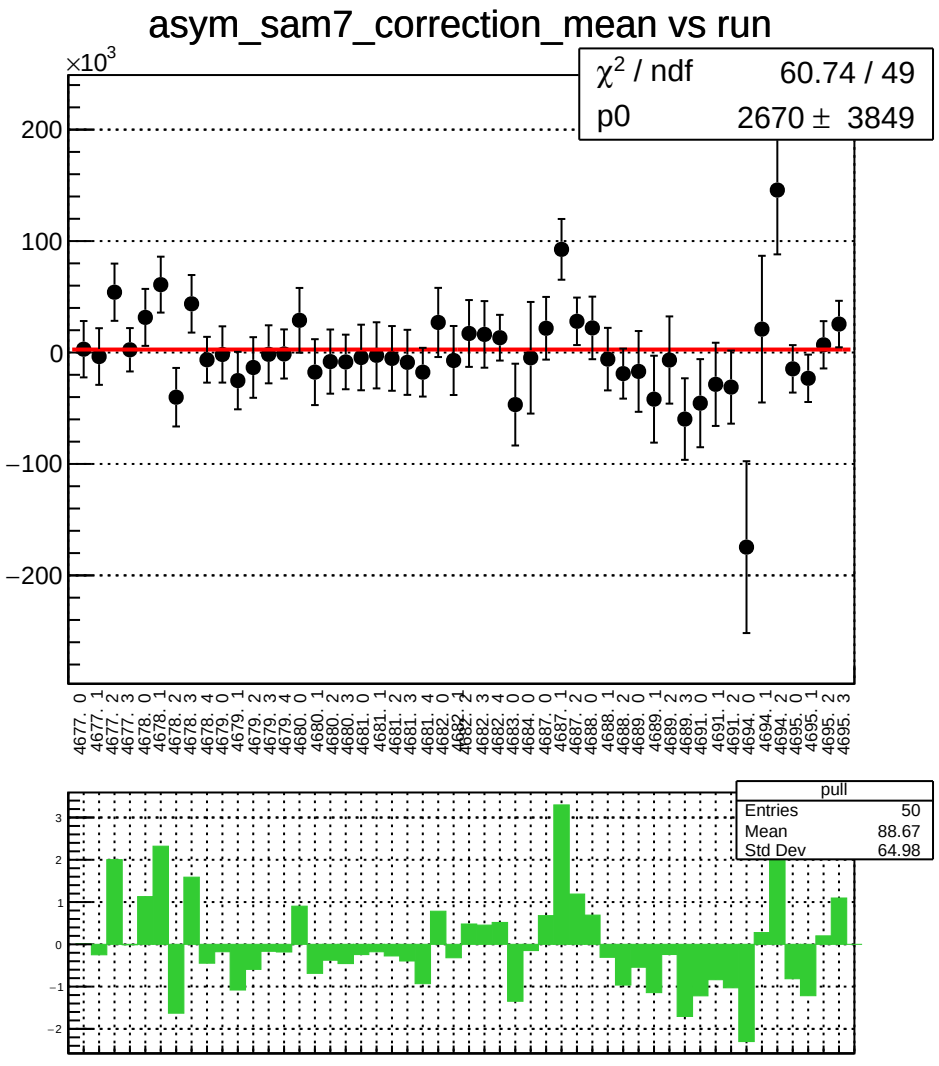
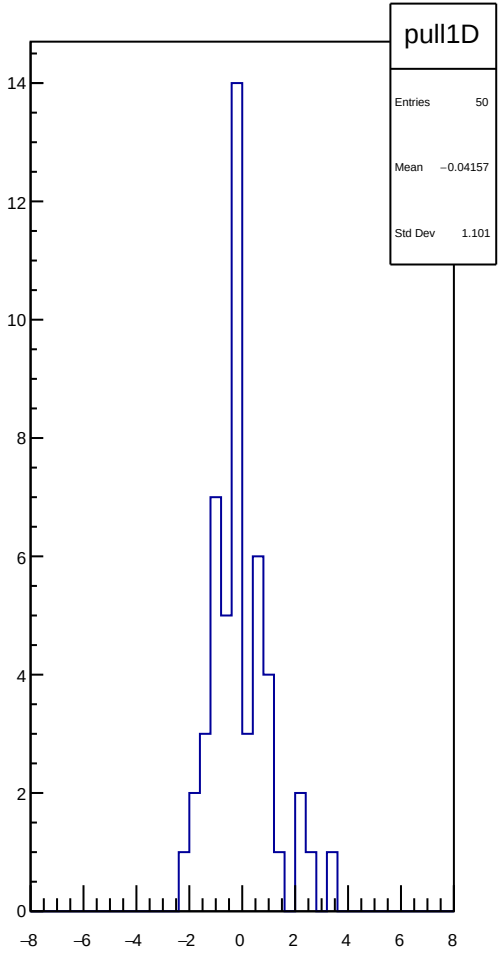
4695. 2
4695. 3

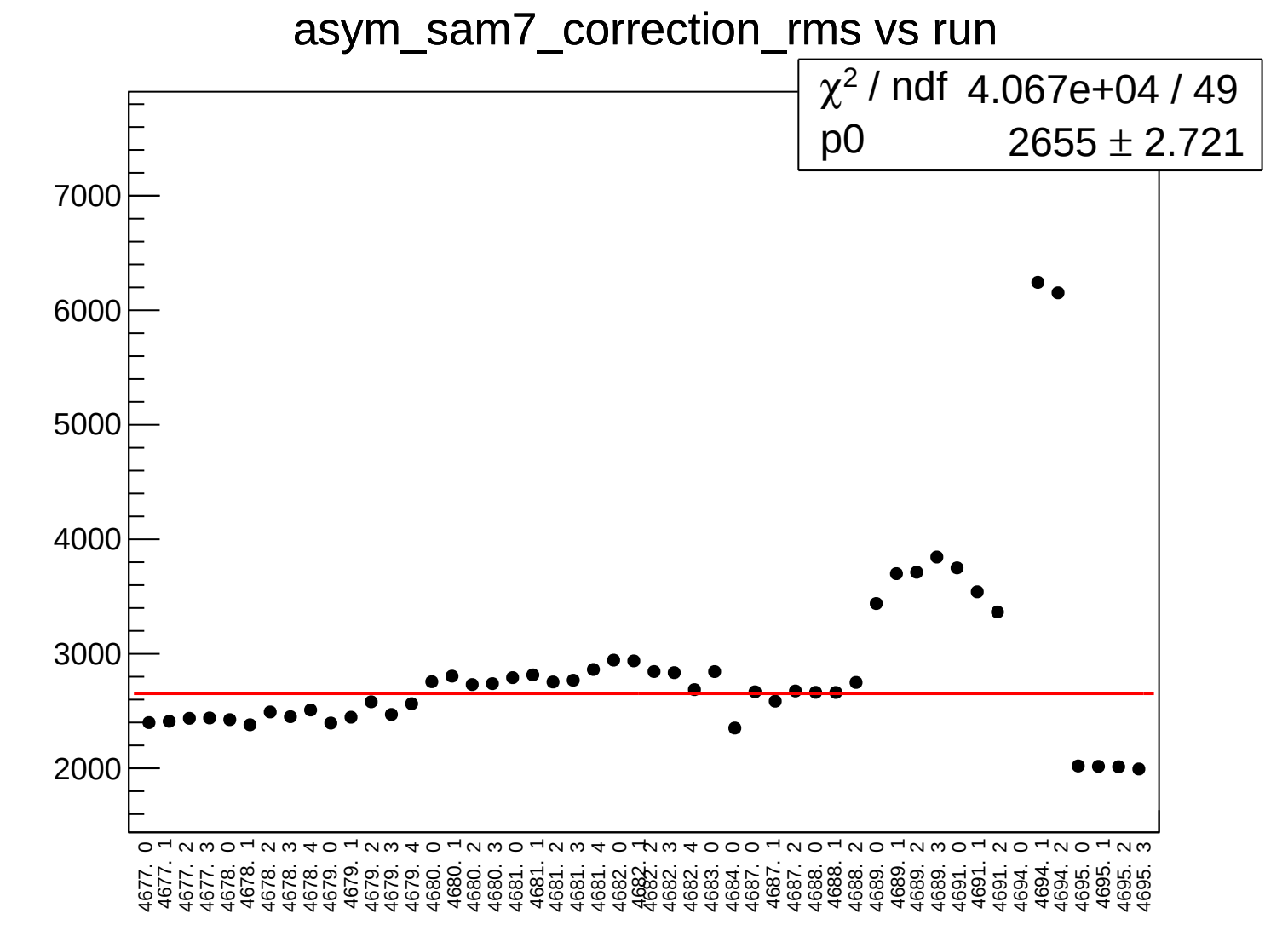

reg_asym_sam7_mean vs run
χ² / ndf 49.31 / 49
p0 170.8 ± 705
pull
Entries 50
Mean −119.7
Std Dev 176.1

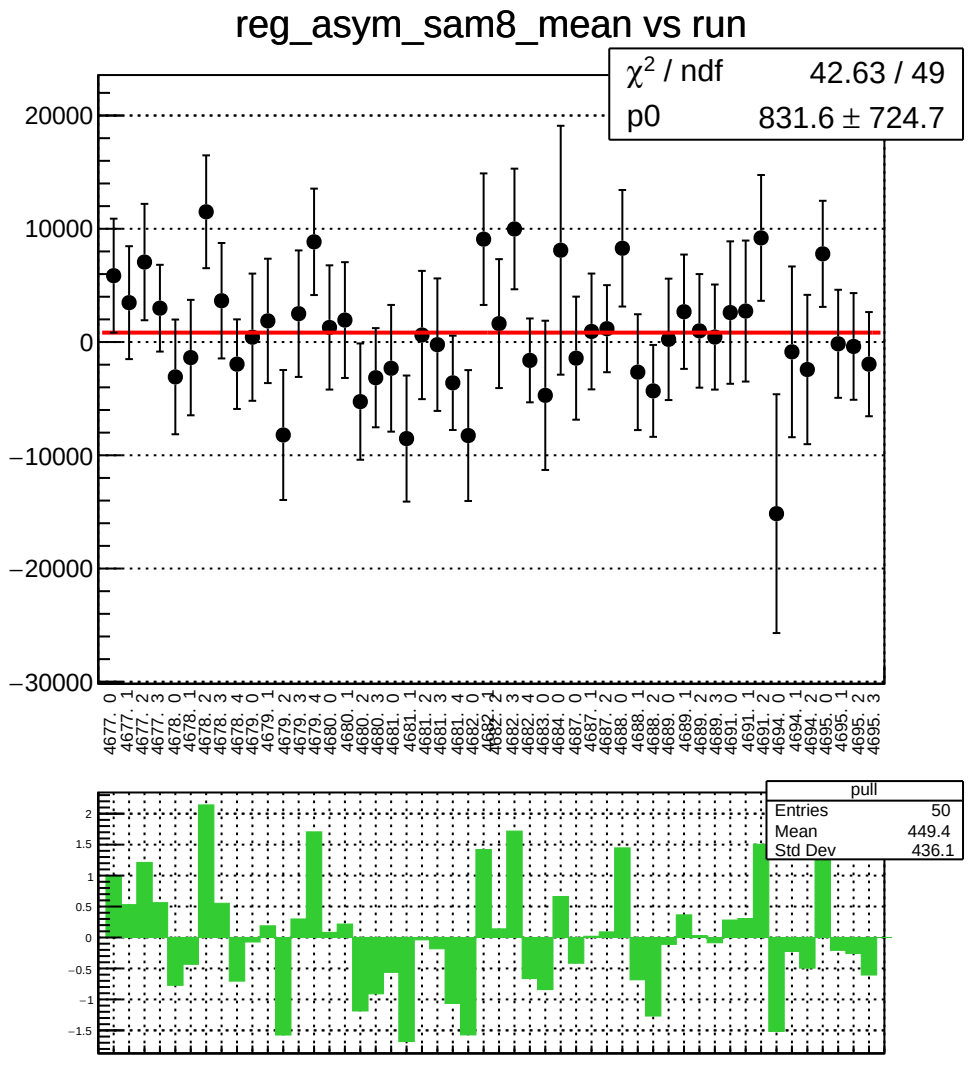

pull1D
Entries 50
Mean −0.005669
Std Dev 0.993

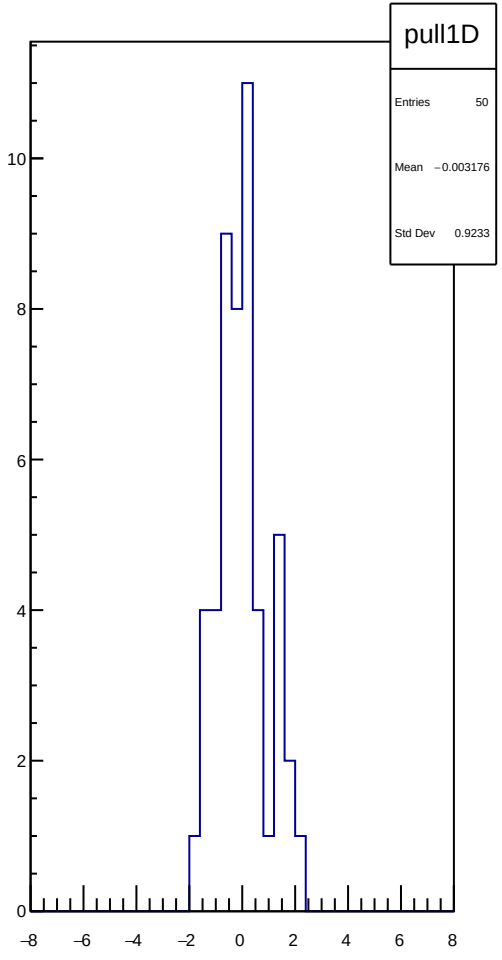

reg_asym_sam7_rms vs run
χ² / ndf 4.763e+04 / 49
p0 484.4 ± 0.4985
1800
1600
1400
1200
1000
800
600
400
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

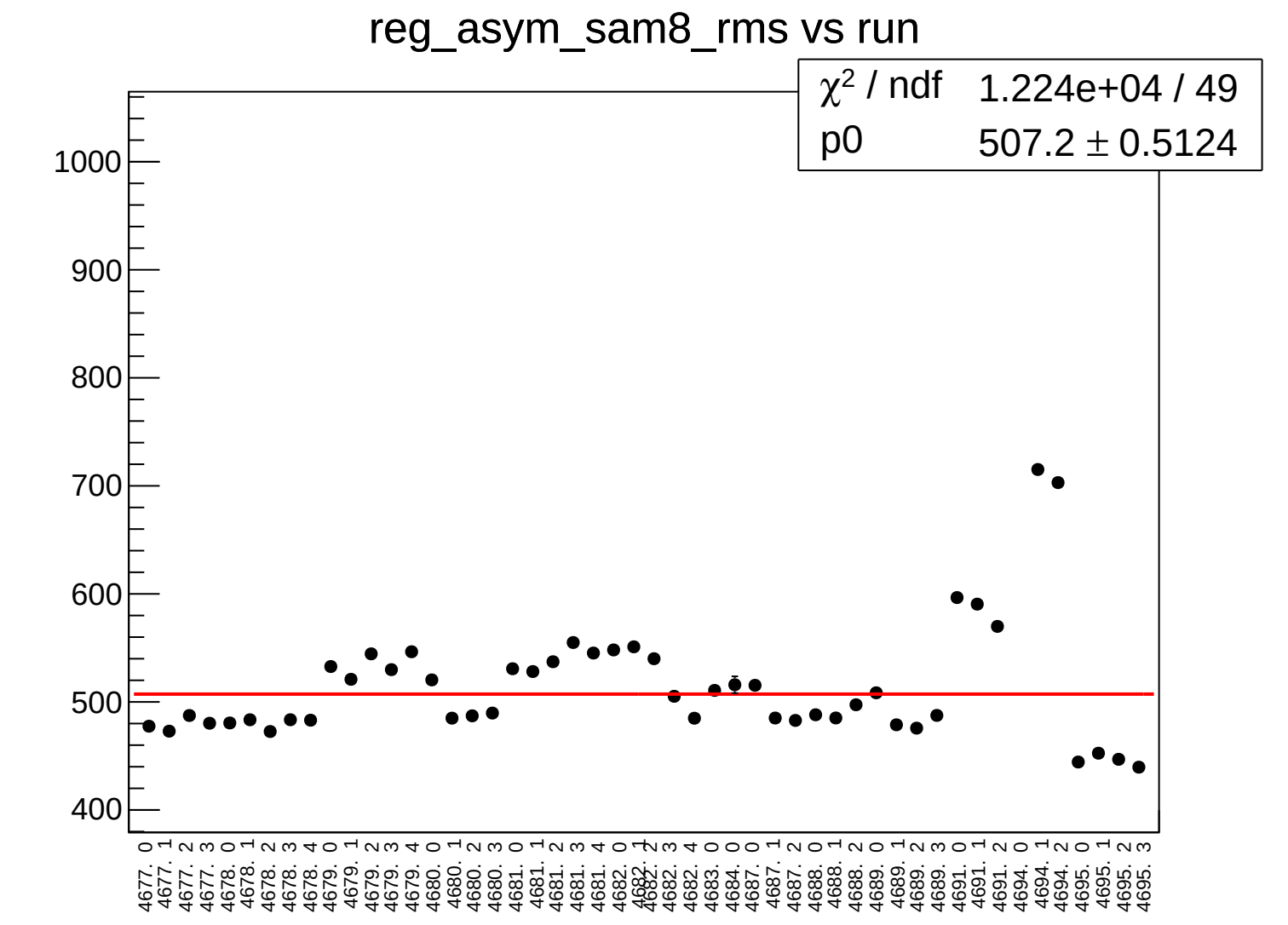

asym_sam7_correction_mean vs run
×10^3
χ^2 / ndf 60.74 / 49
p0 2670 ± 3849
200
100
0
−100
−200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4688. 3
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 88.67
Std Dev 64.98
3
2
1
0
−1
−2

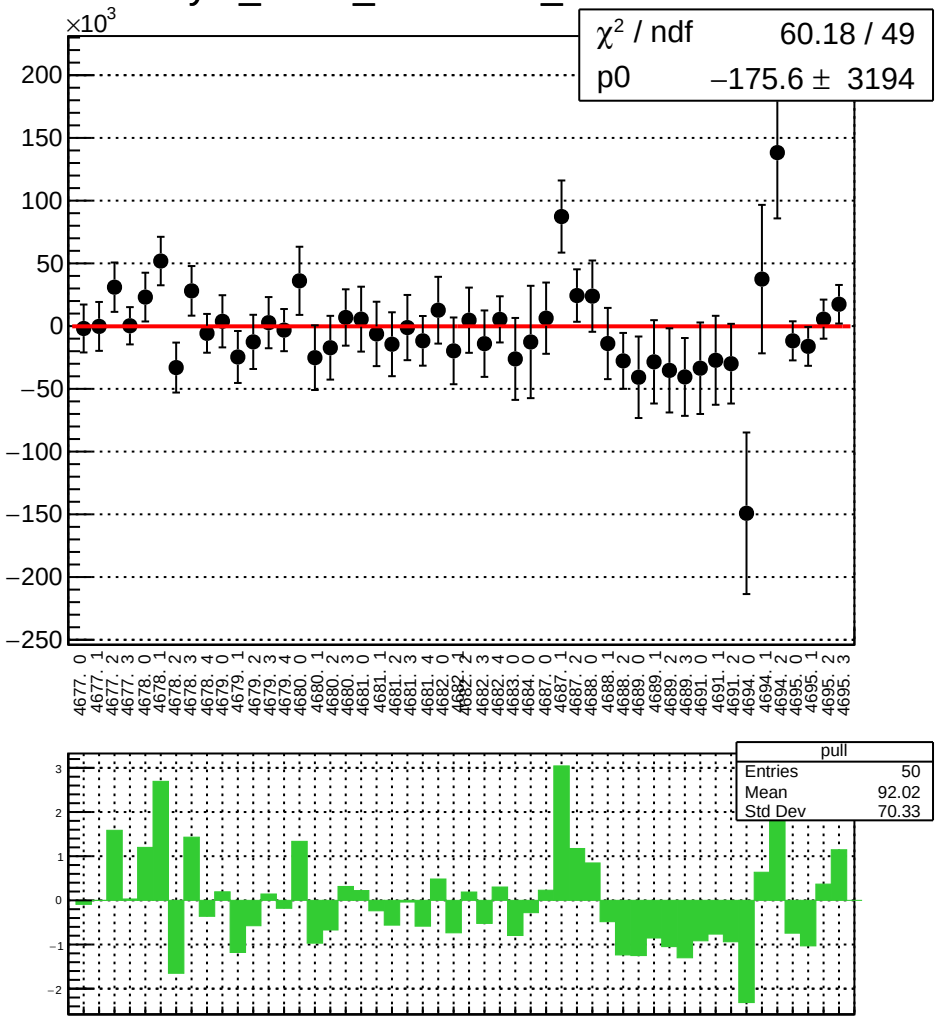

pull1D
Entries 50
Mean −0.04157
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

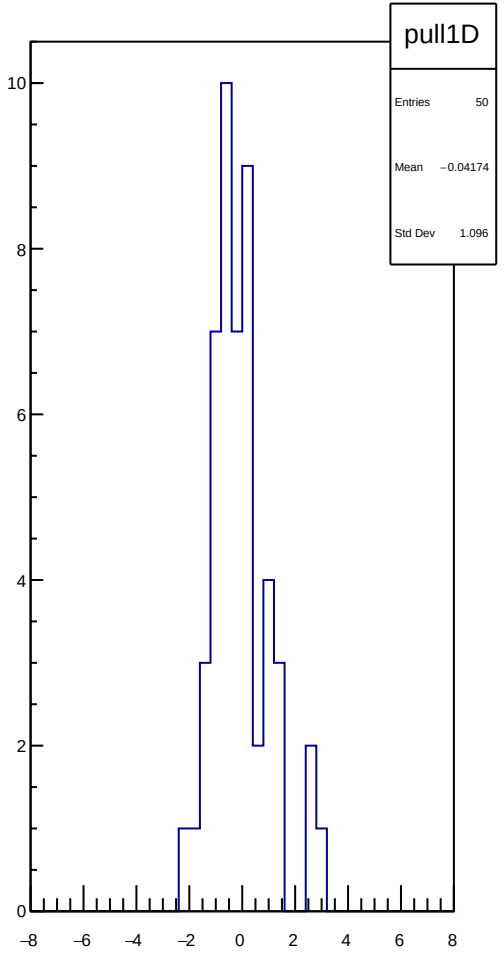

asym_sam7_correction_rms vs run
χ² / ndf 4.067e+04 / 49
p0 2655 ± 2.721
7000
6000
5000
4000
3000
2000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

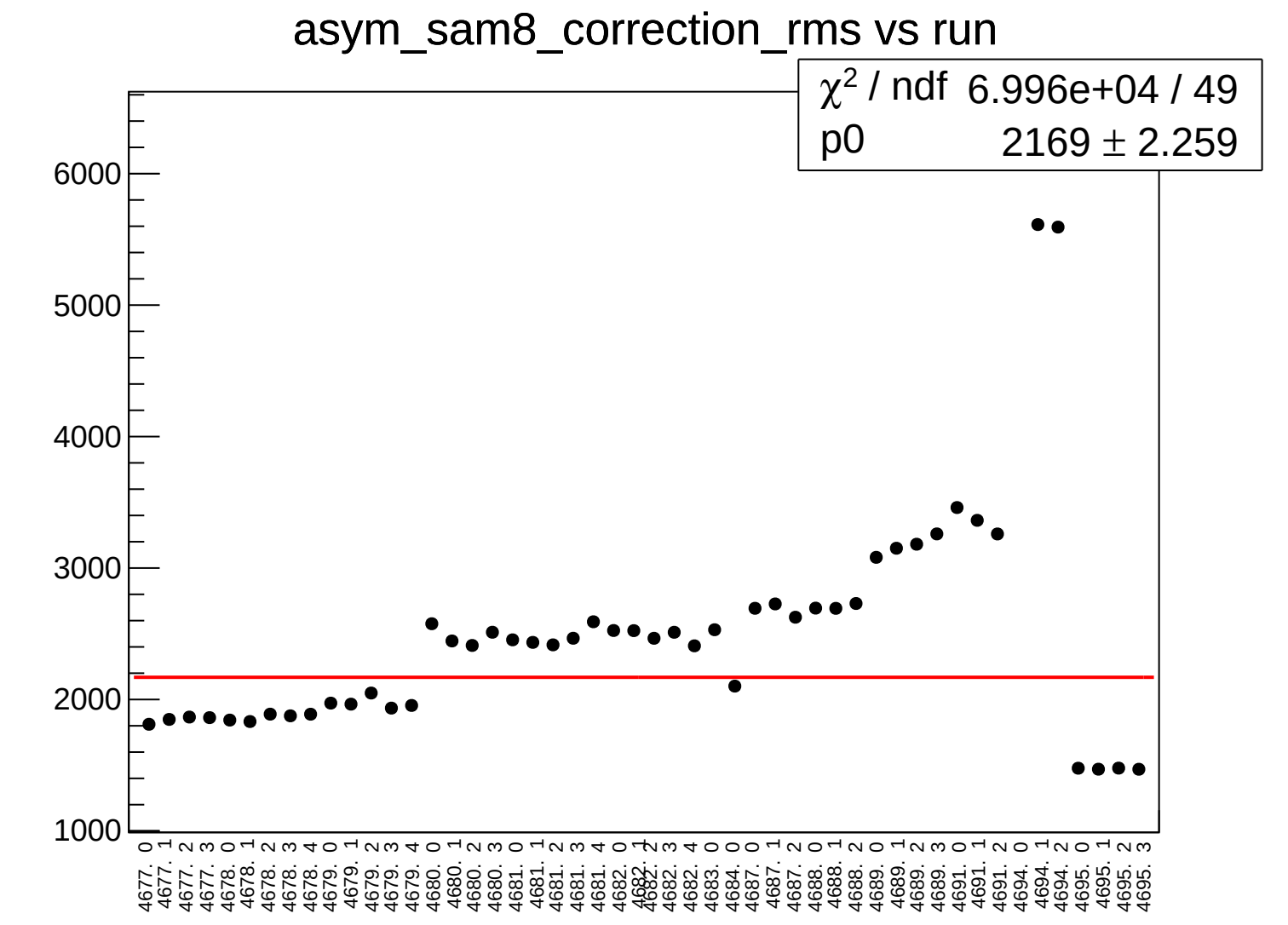

reg_asym_sam8_mean vs run
χ² / ndf 42.63 / 49
p0 831.6 ± 724.7
20000
10000
0
−10000
−20000
−30000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 449.4
Std Dev 436.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

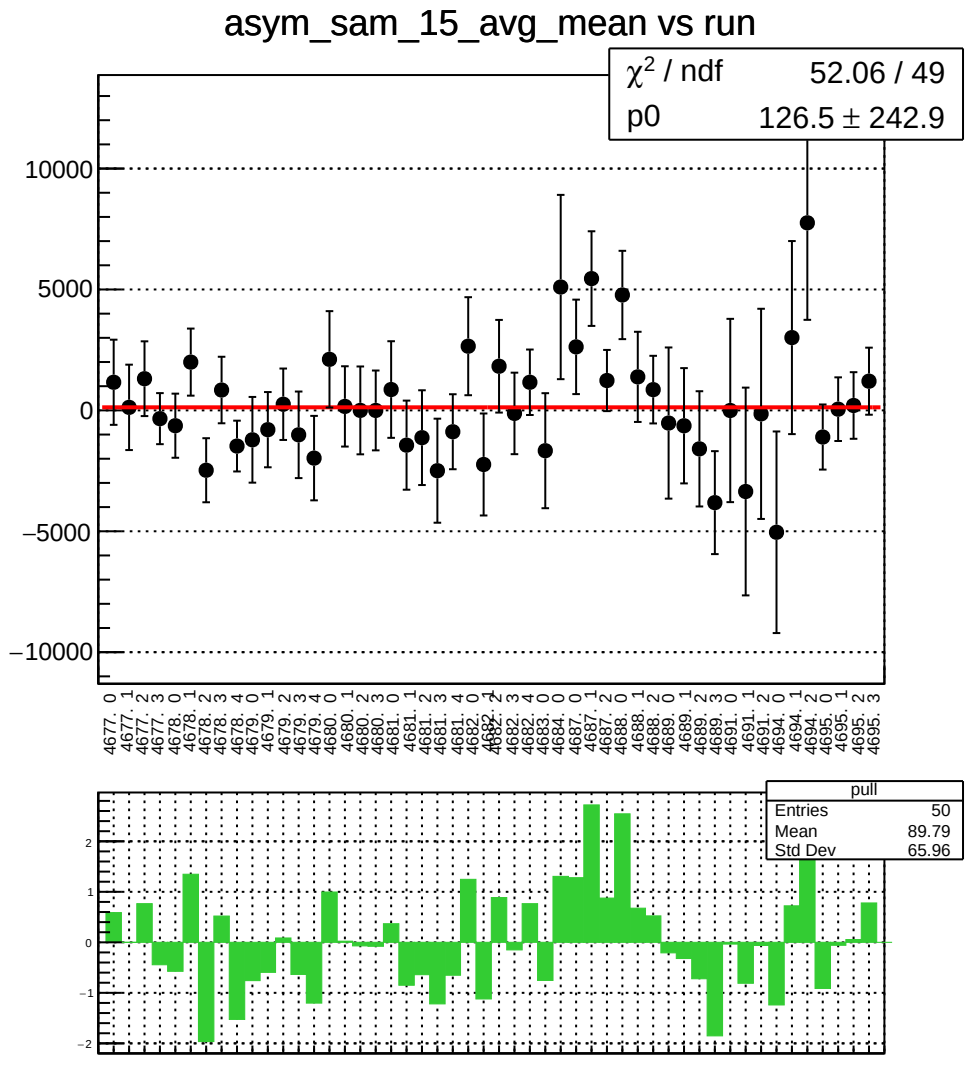

pull1D
Entries 50
Mean −0.003176
Std Dev 0.9233
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

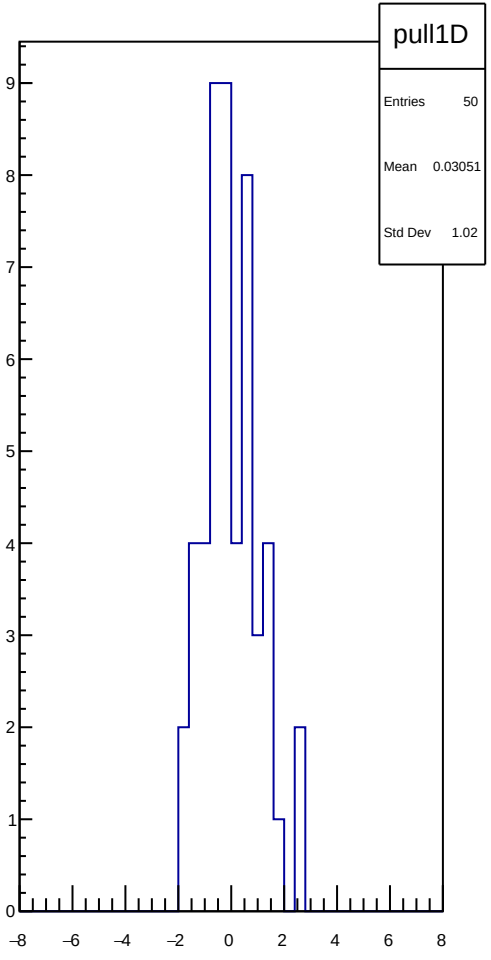

reg_asym_sam8_rms vs run
χ² / ndf 1.224e+04 / 49
p0 507.2 ± 0.5124
1000
900
800
700
600
500
400
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

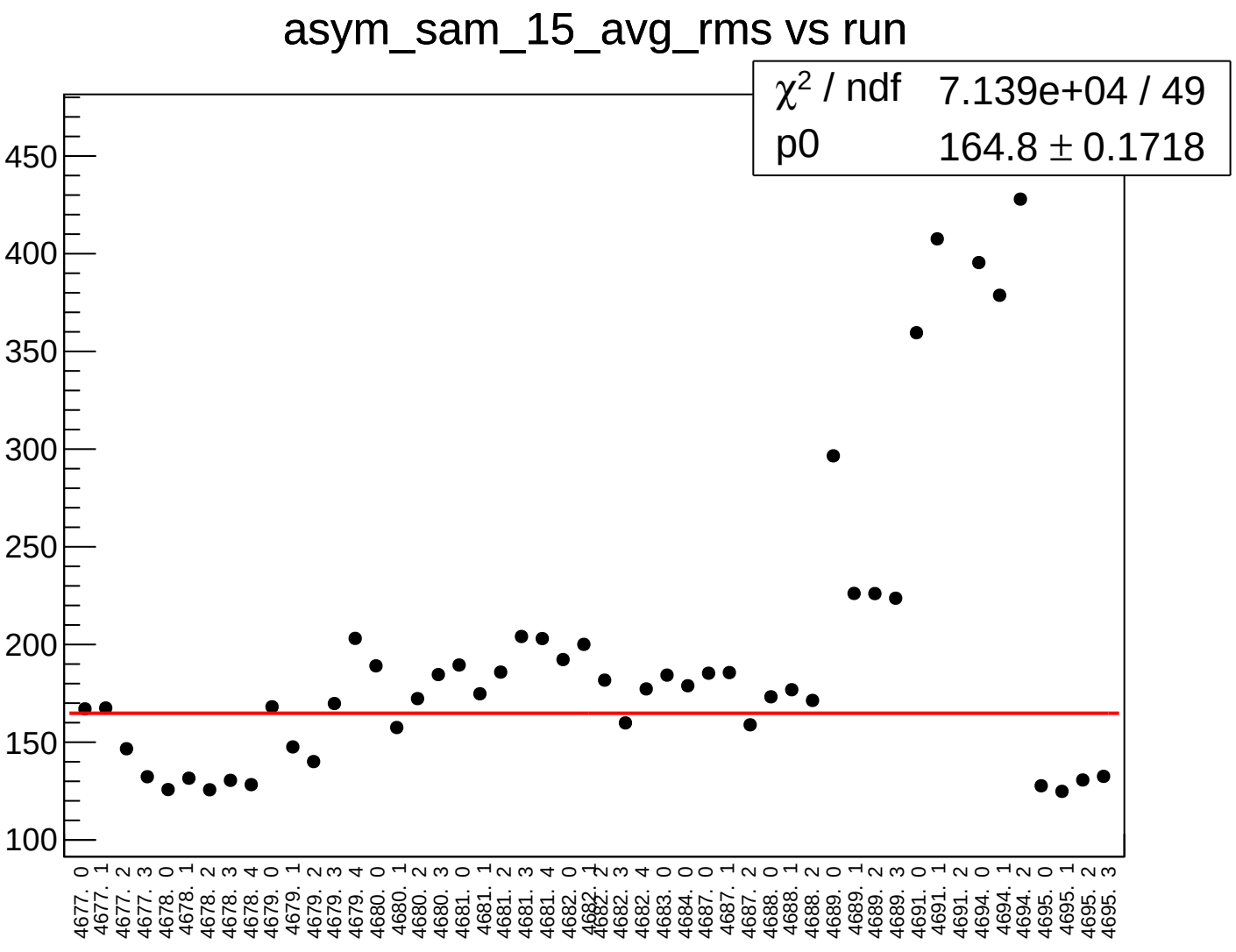

asym_sam8_correction_mean vs run
×10^3
χ² / ndf 60.18 / 49
p0 −175.6 ± 3194
pull
Entries 50
Mean 92.02
Std Dev 70.33


pull1D
Entries 50
Mean −0.04174
Std Dev 1.096


asym_sam8_correction_rms vs run
χ² / ndf 6.996e+04 / 49
p0 2169 ± 2.259
6000
5000
4000
3000
2000
1000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_sam_15_avg_mean vs run
χ² / ndf 52.06 / 49
p0 126.5 ± 242.9
10000
5000
0
−5000
−10000
pull
Entries 50
Mean 89.79
Std Dev 65.96
2
1
0
−1
−2


pull1D
Entries 50
Mean 0.03051
Std Dev 1.02
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_rms vs run
χ² / ndf 7.139e+04 / 49
p0 164.8 ± 0.1718
450
400
350
300
250
200
150
100
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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4691. 2
4694. 0
4694. 1
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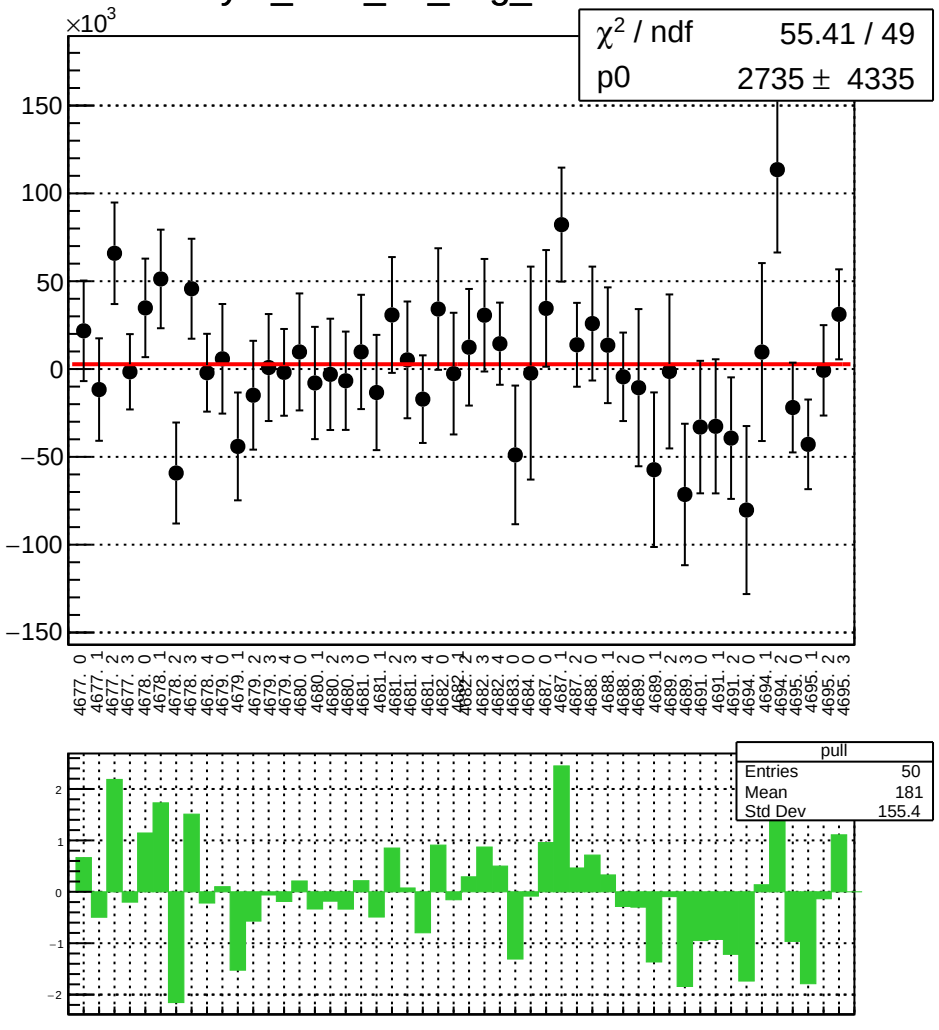
4695. 0
4695. 1
4695. 2
4695. 3


asym_sam_26_avg_mean vs run
×10^3
χ^2 / ndf 55.41 / 49
p0 2735 ± 4335
150
100
50
0
−50
−100
−150
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4680. 4
4681. 0
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4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
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4682. 4
4683. 0
4684. 0
4687. 0
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4687. 2
4688. 0
4688. 1
4688. 2
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4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
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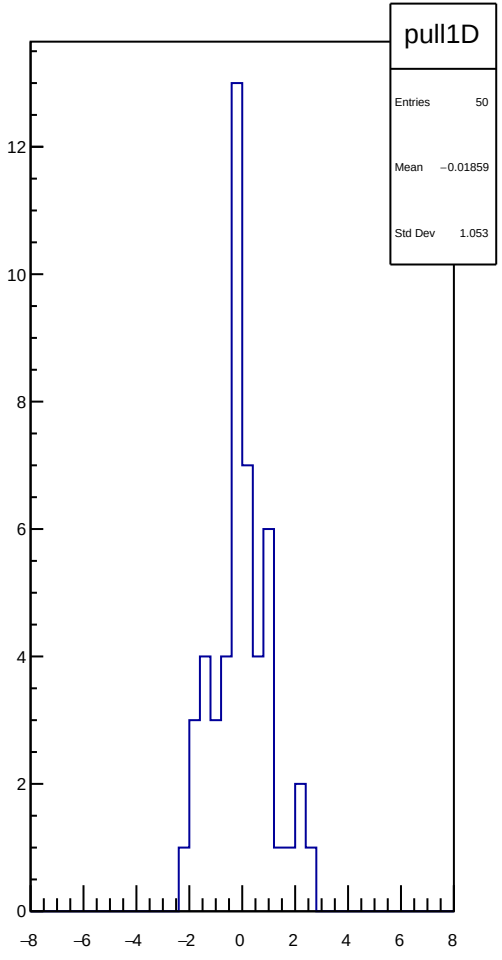
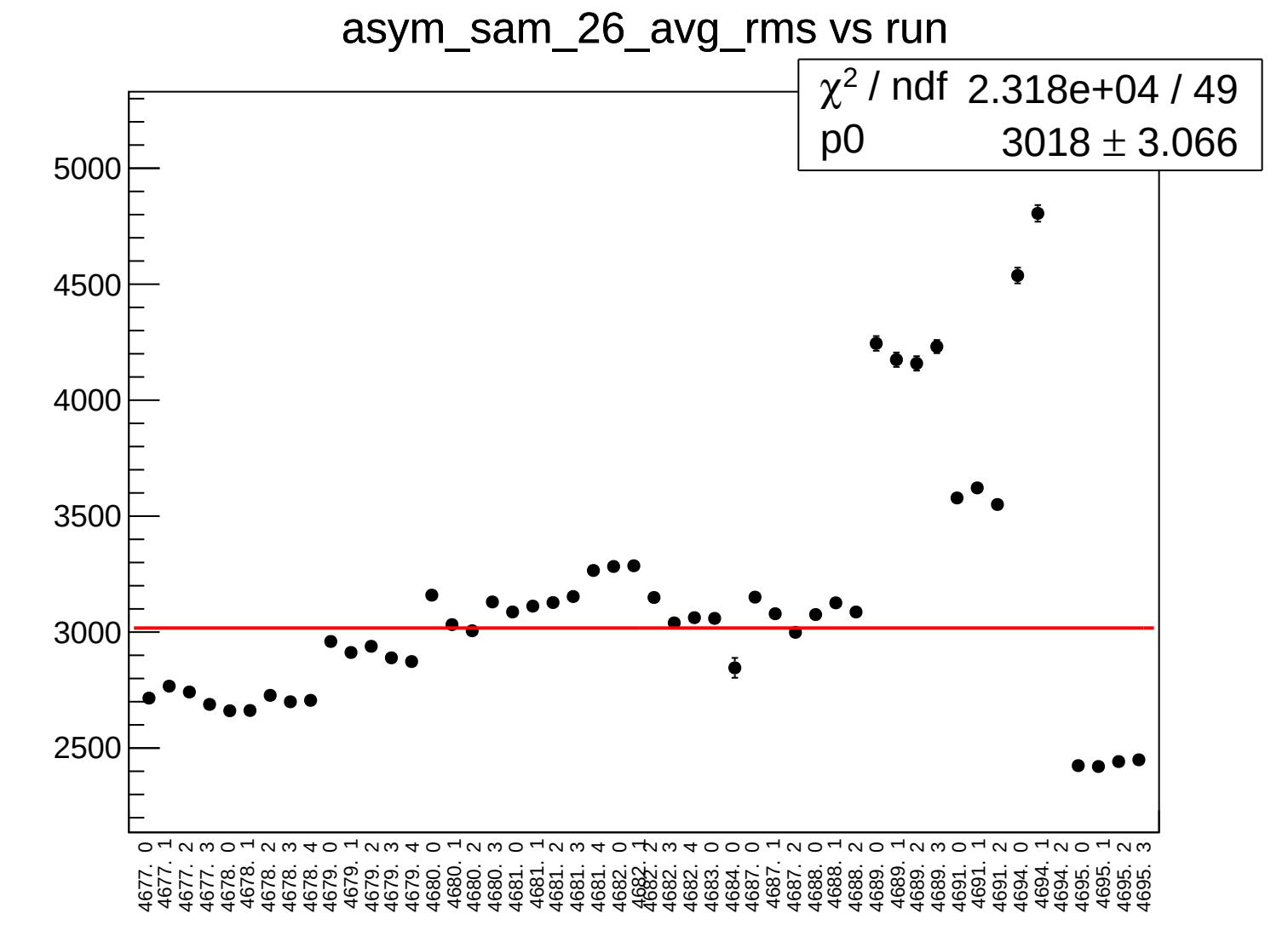
4695. 2
4695. 3
pull
Entries 50
Mean 181
Std Dev 155.4
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.01859
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_rms vs run
χ² / ndf 2.318e+04 / 49
p0 3018 ± 3.066
5000
4500
4000
3500
3000
2500
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
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4689. 1
4689. 2
4689. 3
4691. 0
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4694. 1
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4695. 0
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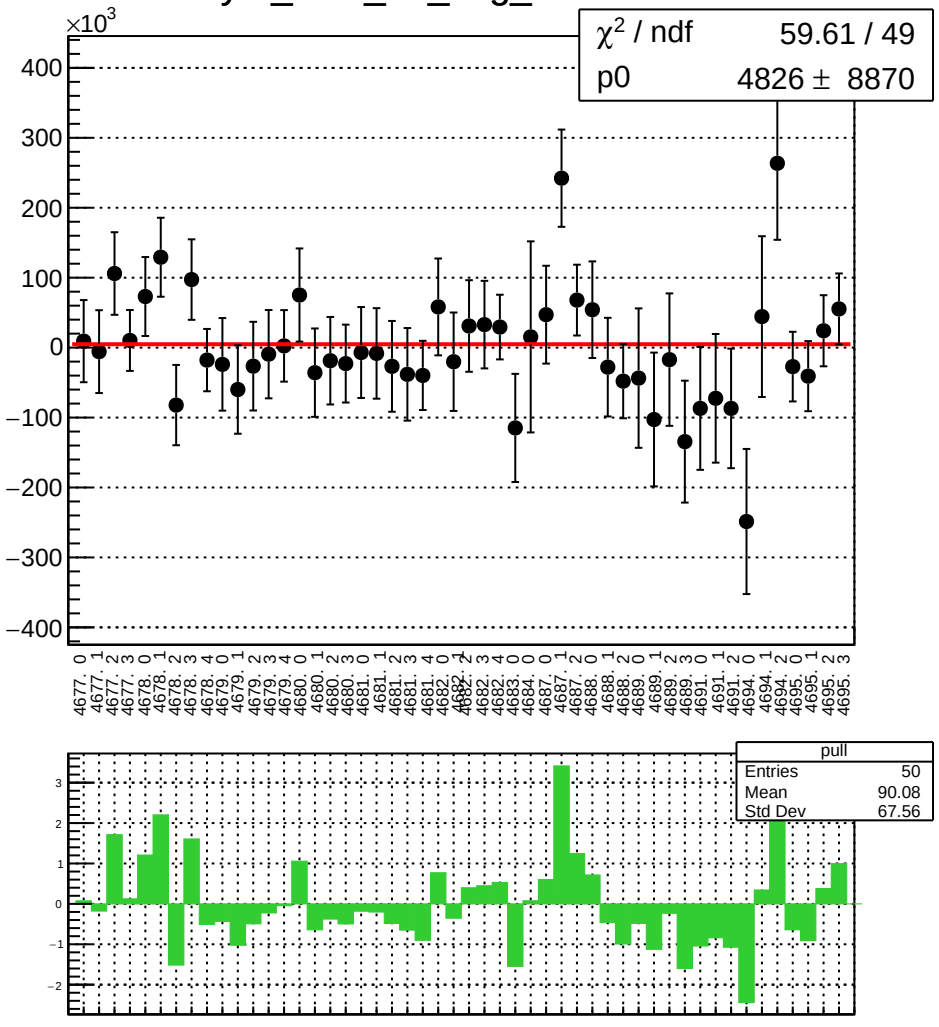
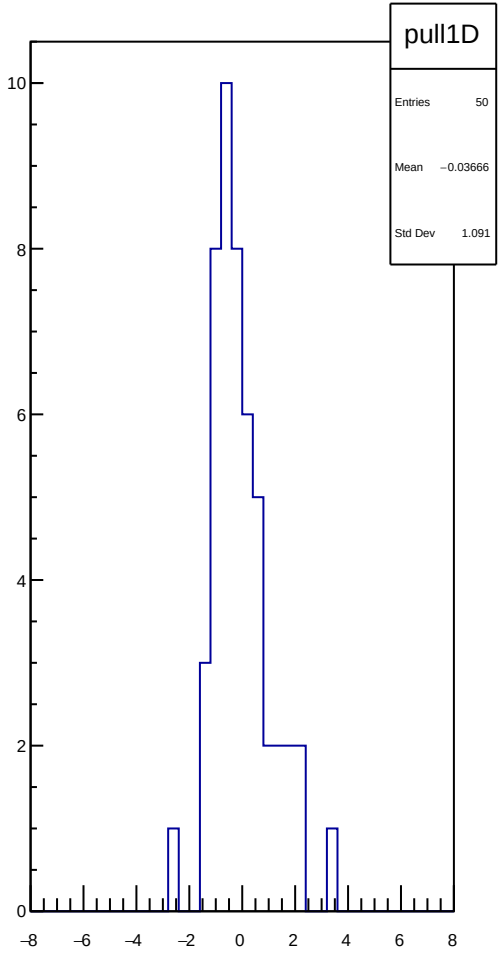
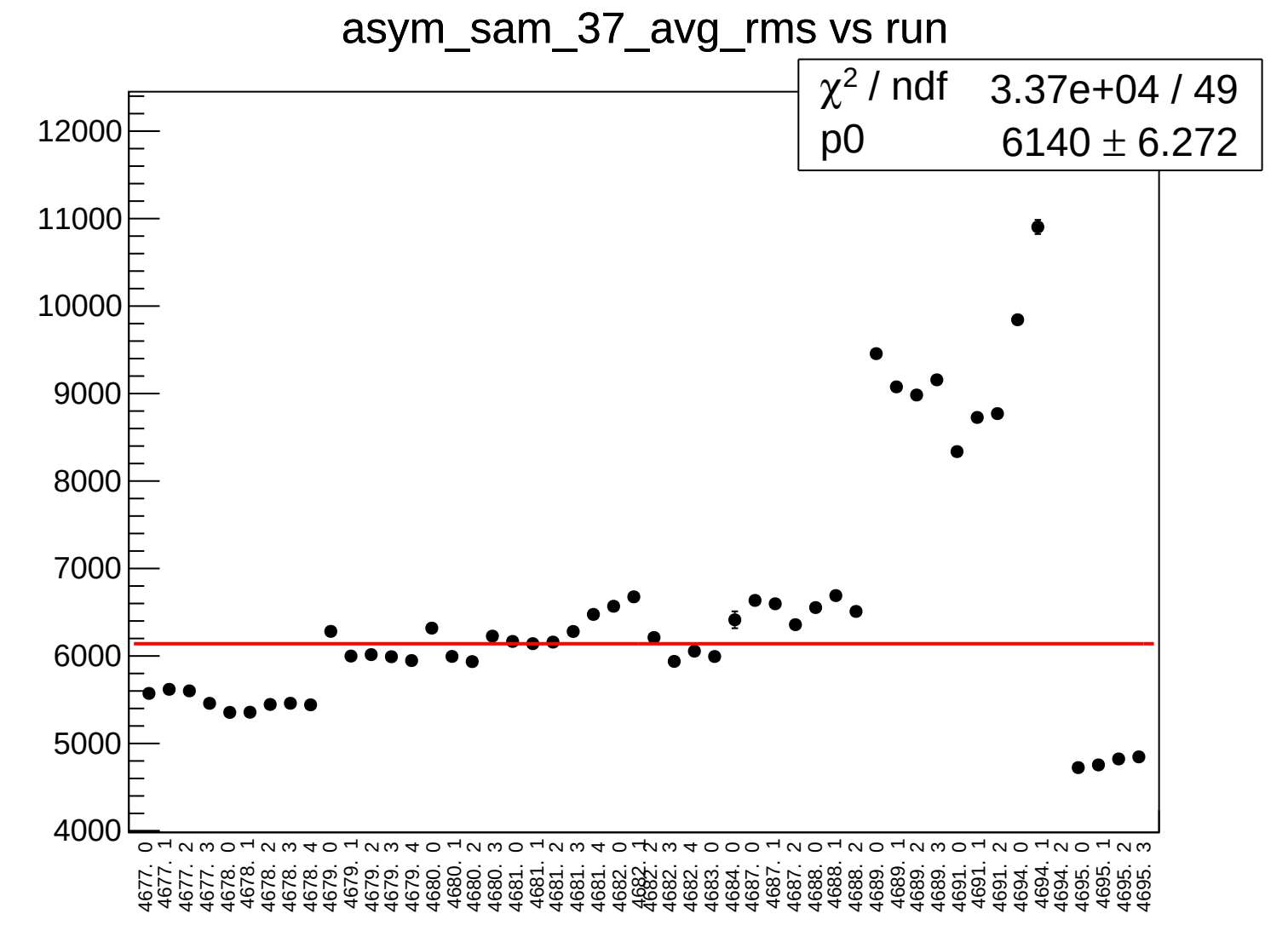
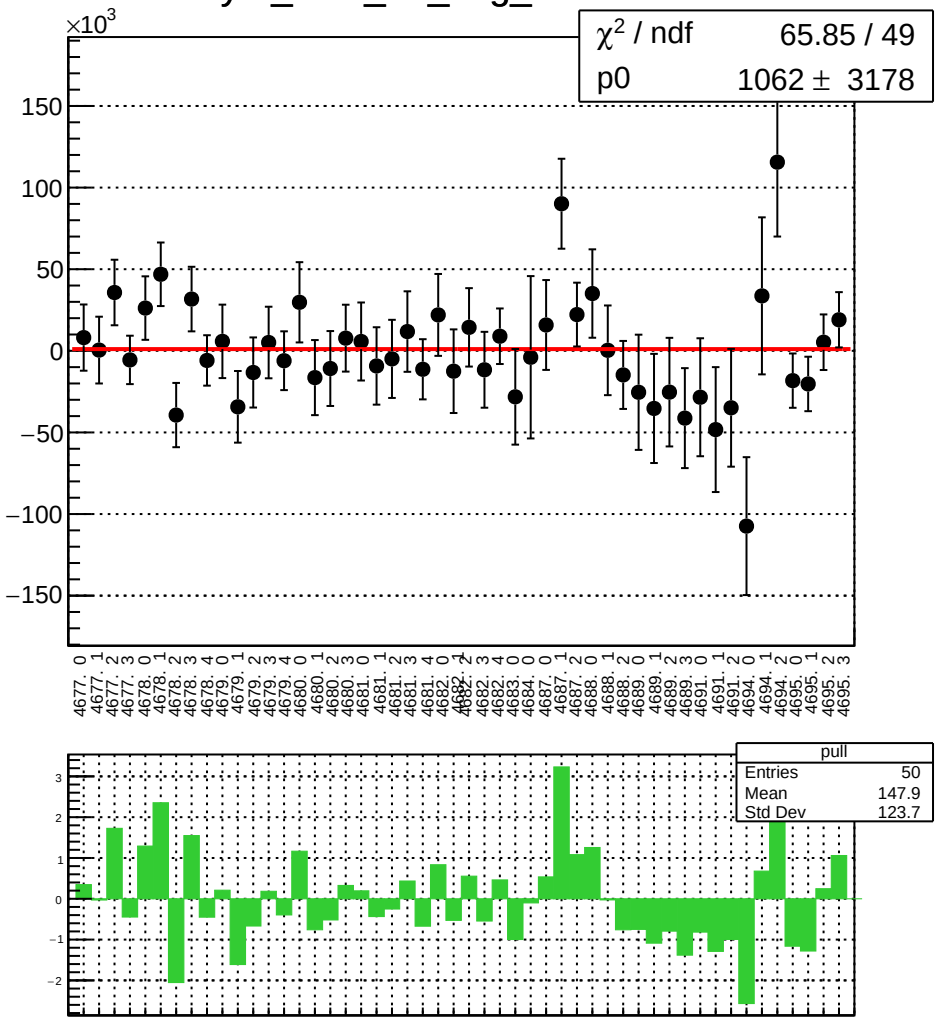
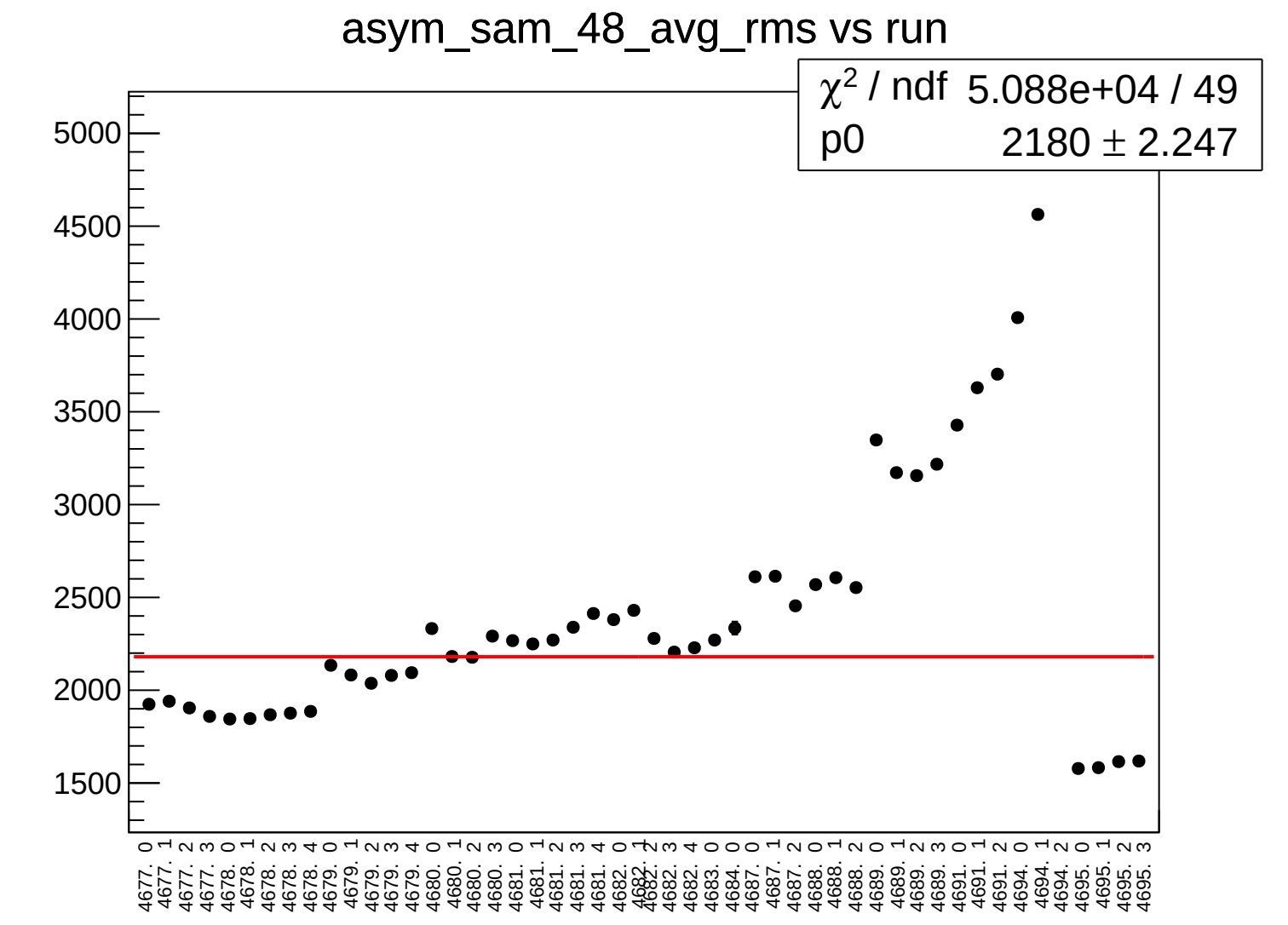
4695. 3

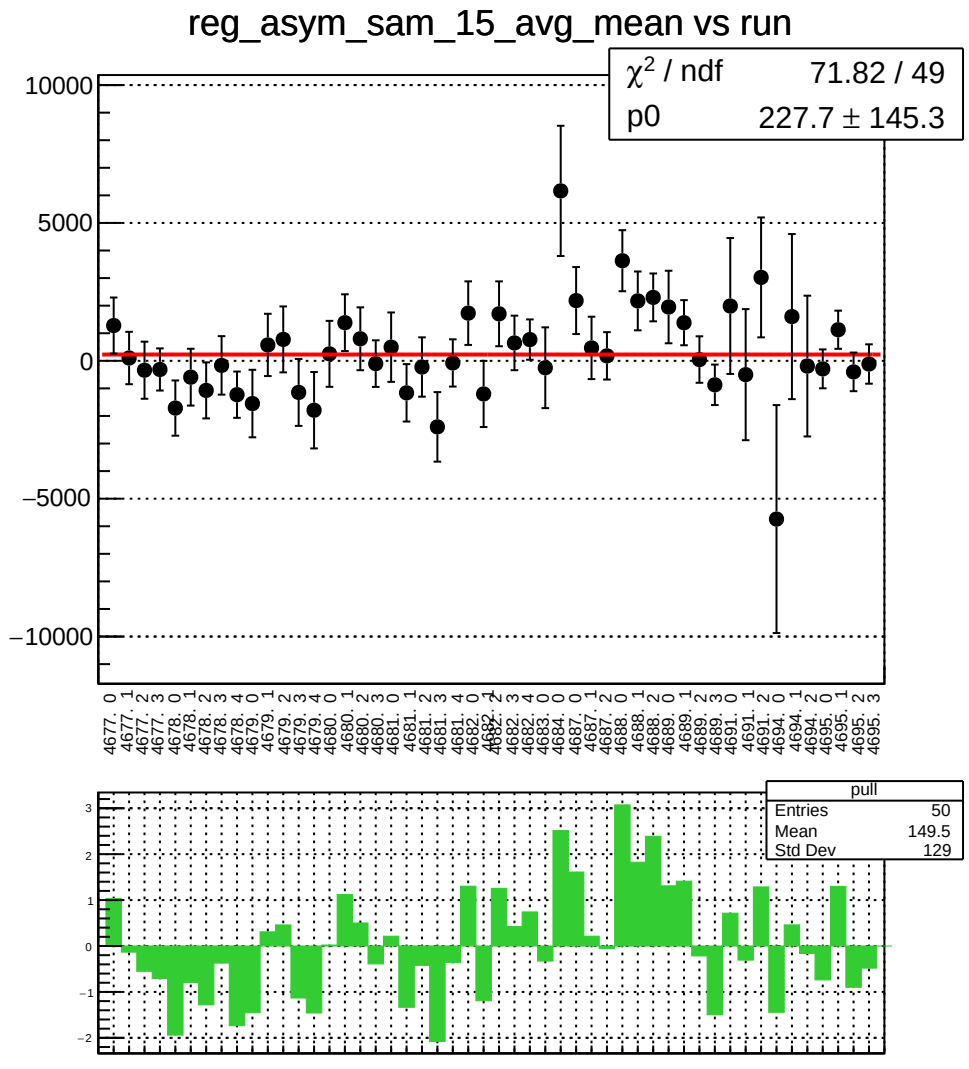

asym_sam_37_avg_mean vs run
×10^3
χ² / ndf 59.61 / 49
p0 4826 ± 8870
pull
Entries 50
Mean 90.08
Std Dev 67.56

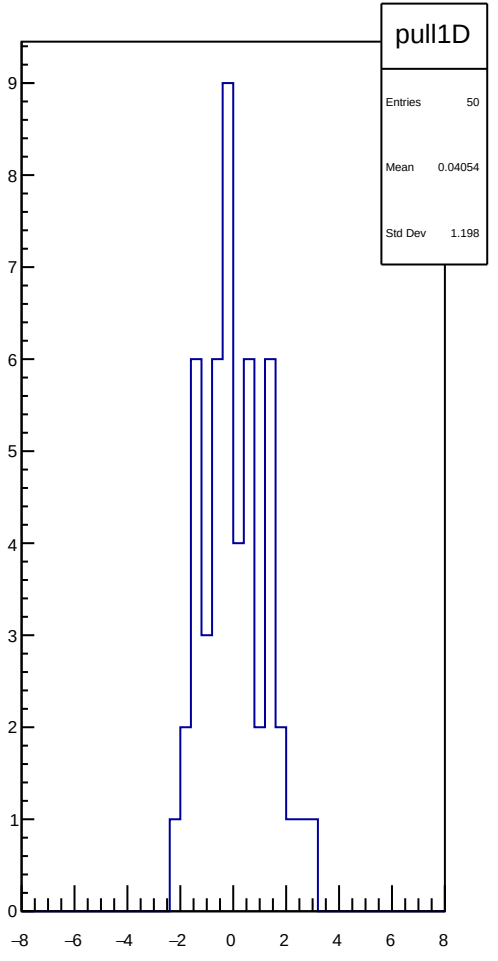

pull1D
Entries 50
Mean −0.03666
Std Dev 1.091

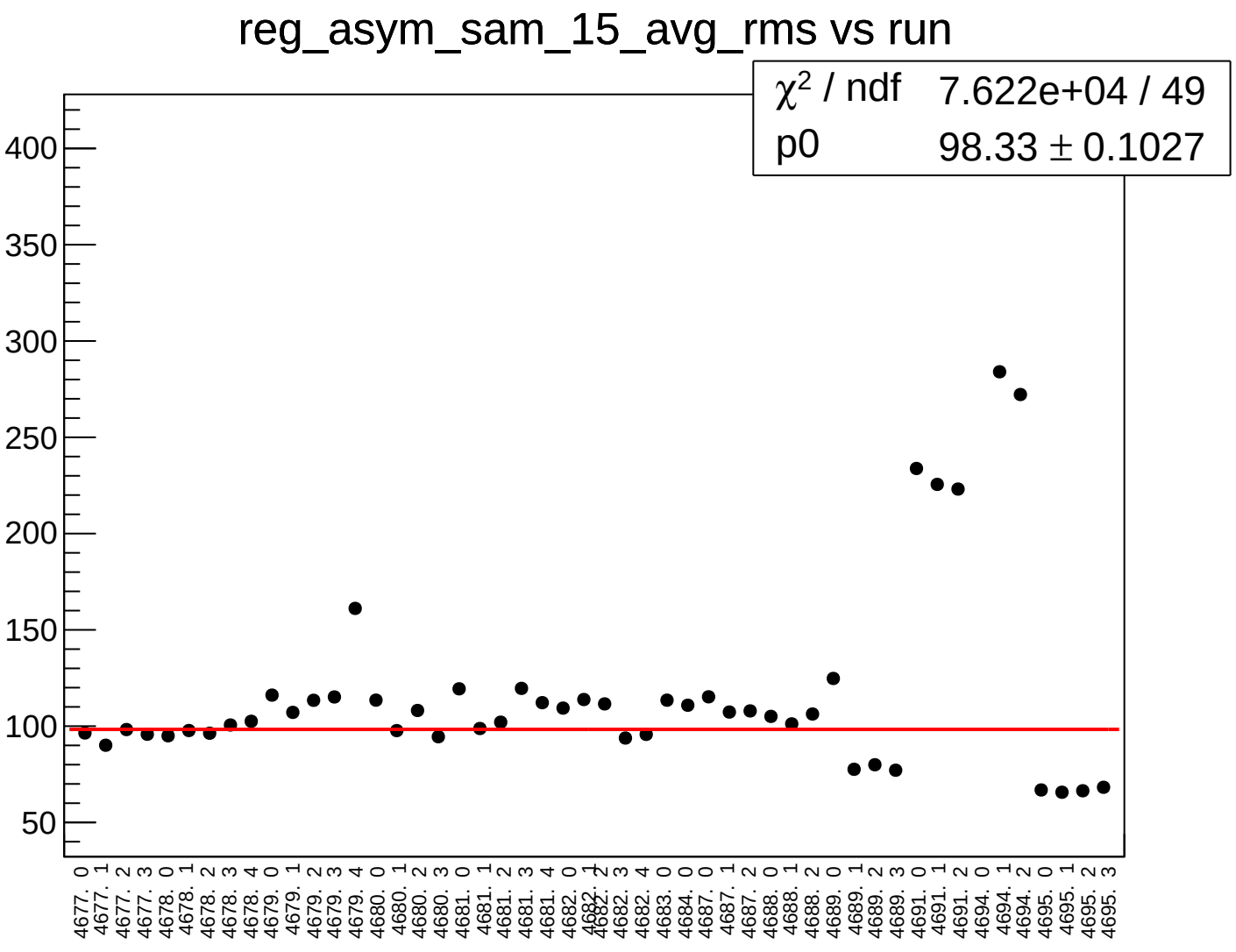

asym_sam_37_avg_rms vs run
χ² / ndf 3.37e+04 / 49
p0 6140 ± 6.272
12000
11000
10000
9000
8000
7000
6000
5000
4000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

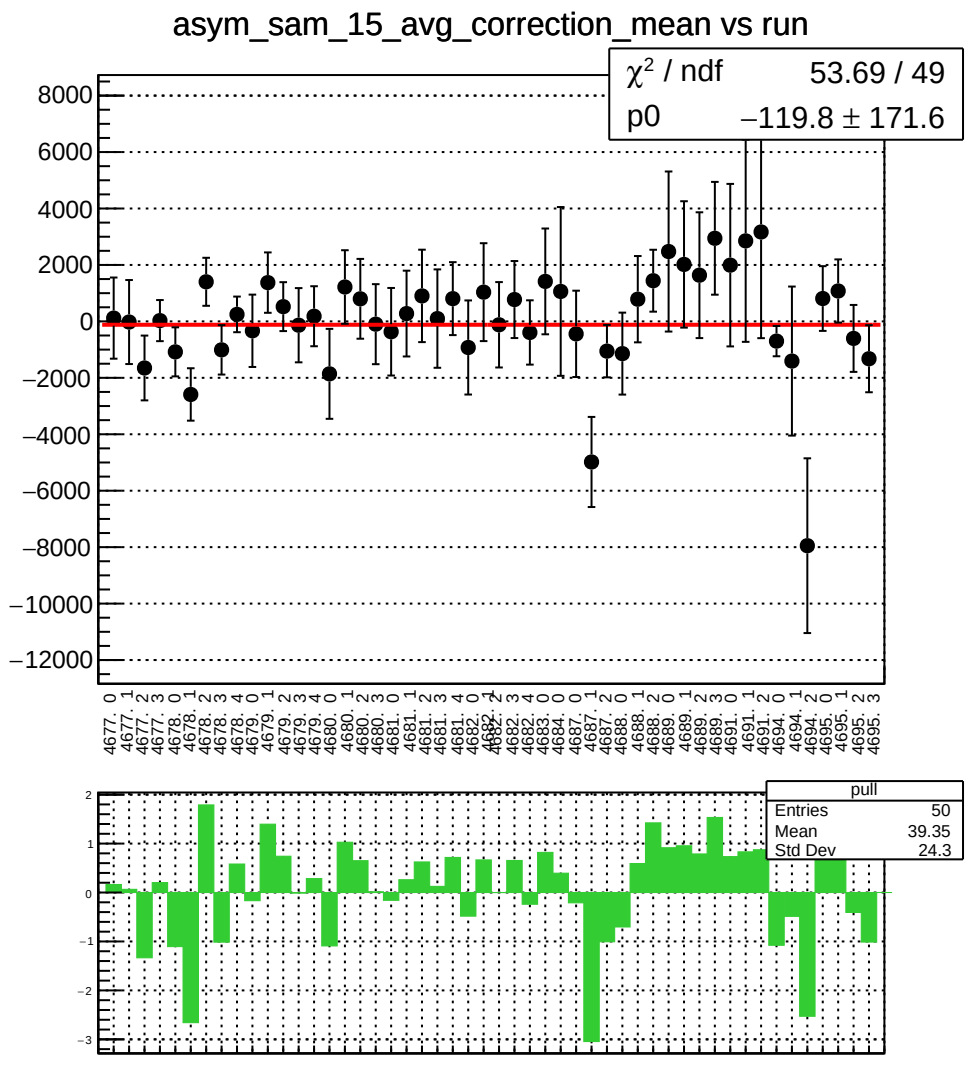

asym_sam_48_avg_mean vs run
×10^3
χ² / ndf 65.85 / 49
p0 1062 ± 3178
150
100
50
0
−50
−100
−150
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 147.9
Std Dev 123.7
3
2
1
0
−1
−2
pull1D
Entries 50
Mean −0.02265
Std Dev 1.147
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

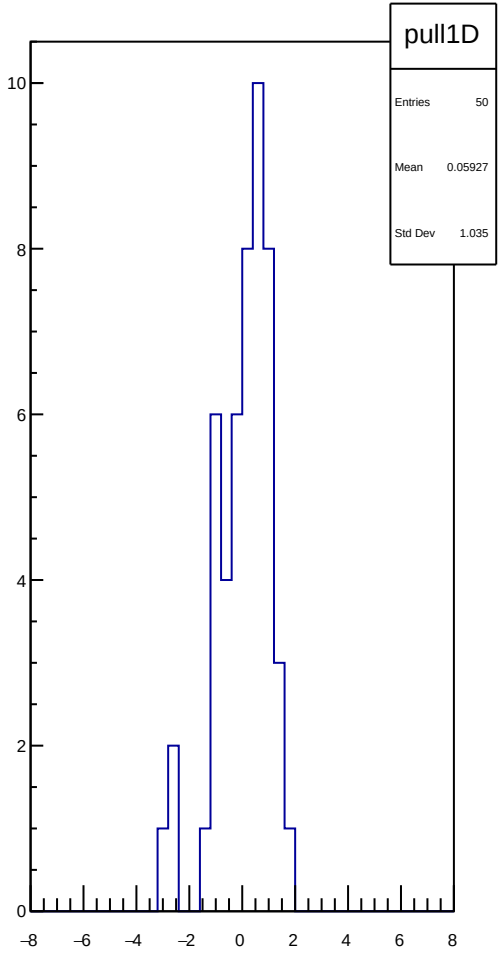

asym_sam_48_avg_rms vs run
χ^2 / ndf 5.088e+04 / 49
p0 2180 ± 2.247
5000
4500
4000
3500
3000
2500
2000
1500
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

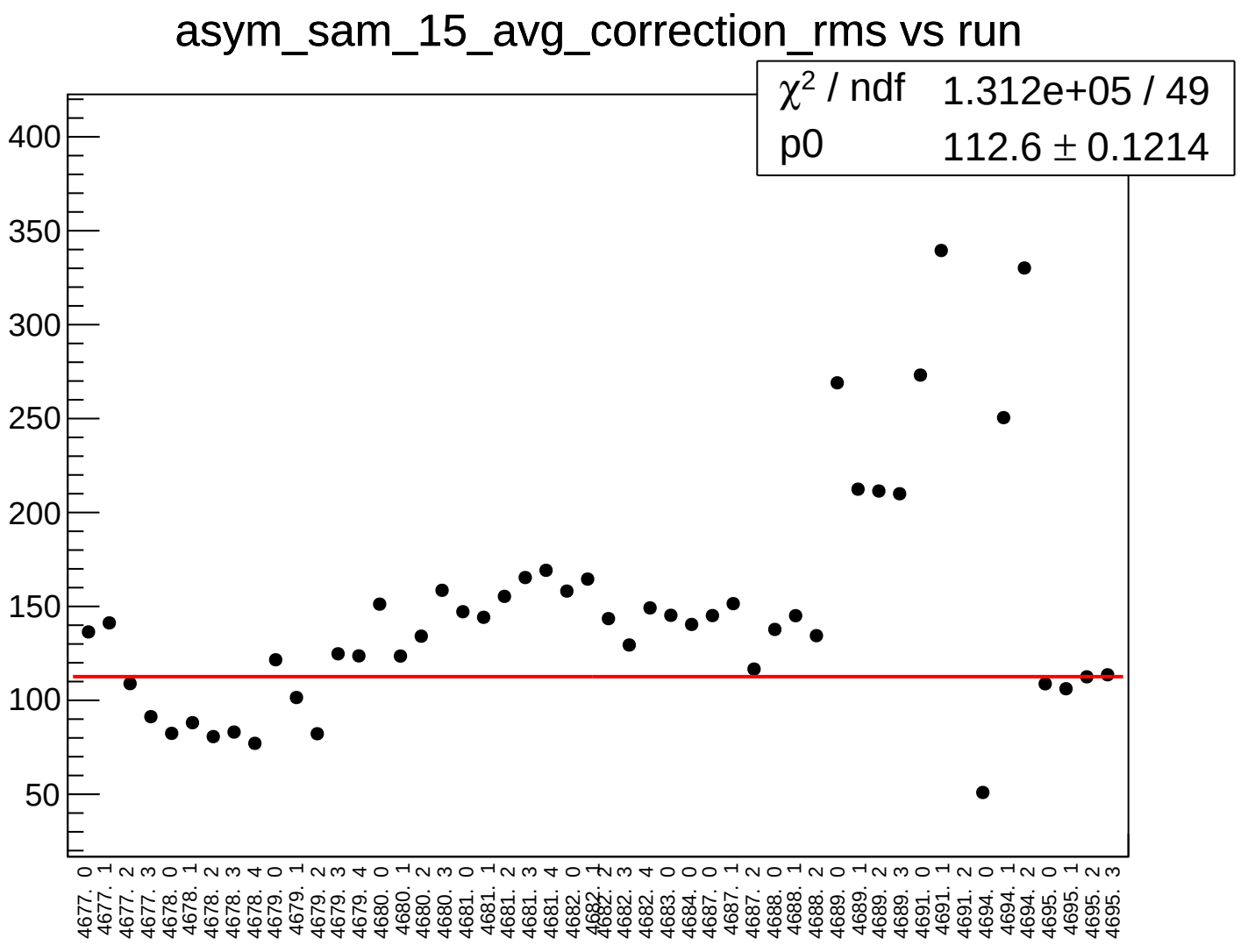

reg_asym_sam_15_avg_mean vs run
χ² / ndf 71.82 / 49
p0 227.7 ± 145.3
10000
5000
0
−5000
−10000
pull
Entries 50
Mean 149.5
Std Dev 129
3
2
1
0
−1
−2

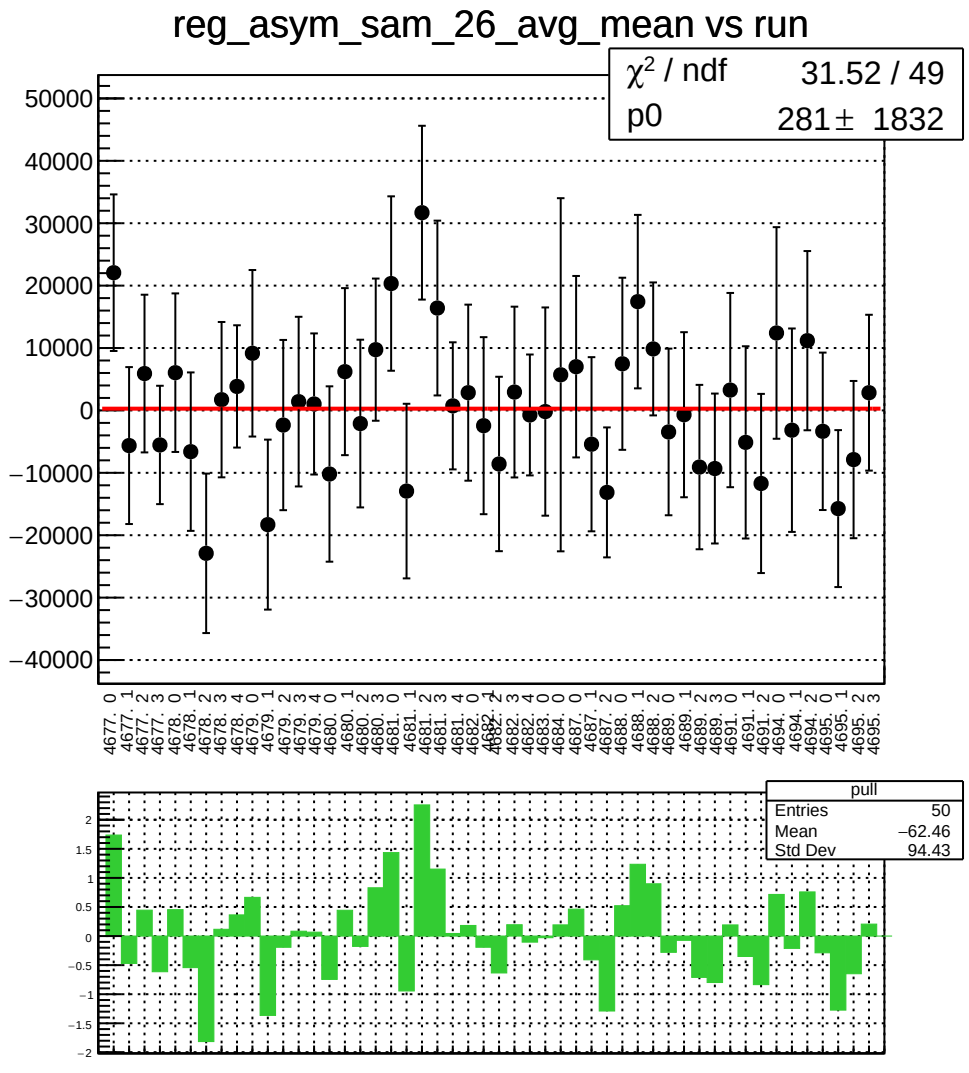

pull1D
Entries 50
Mean 0.04054
Std Dev 1.198
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

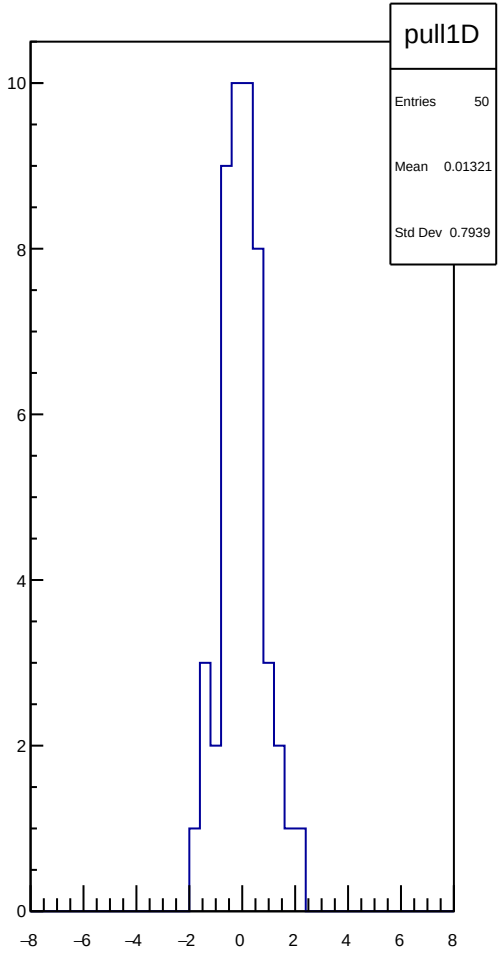

reg_asym_sam_15_avg_rms vs run
χ² / ndf 7.622e+04 / 49
p0 98.33 ± 0.1027
400
350
300
250
200
150
100
50
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

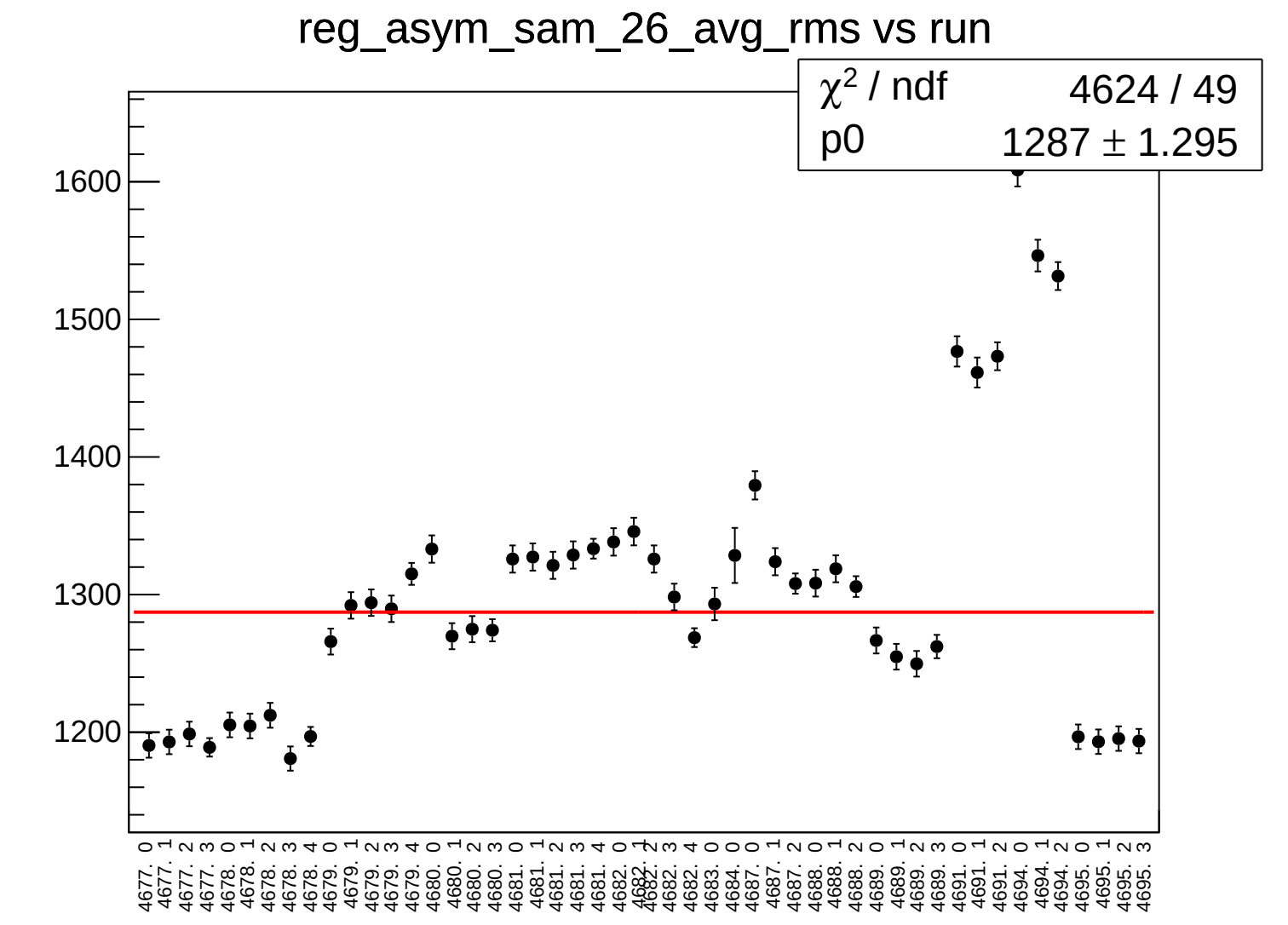

asym_sam_15_avg_correction_mean vs run
χ² / ndf 53.69 / 49
p0 −119.8 ± 171.6
pull
Entries 50
Mean 39.35
Std Dev 24.3

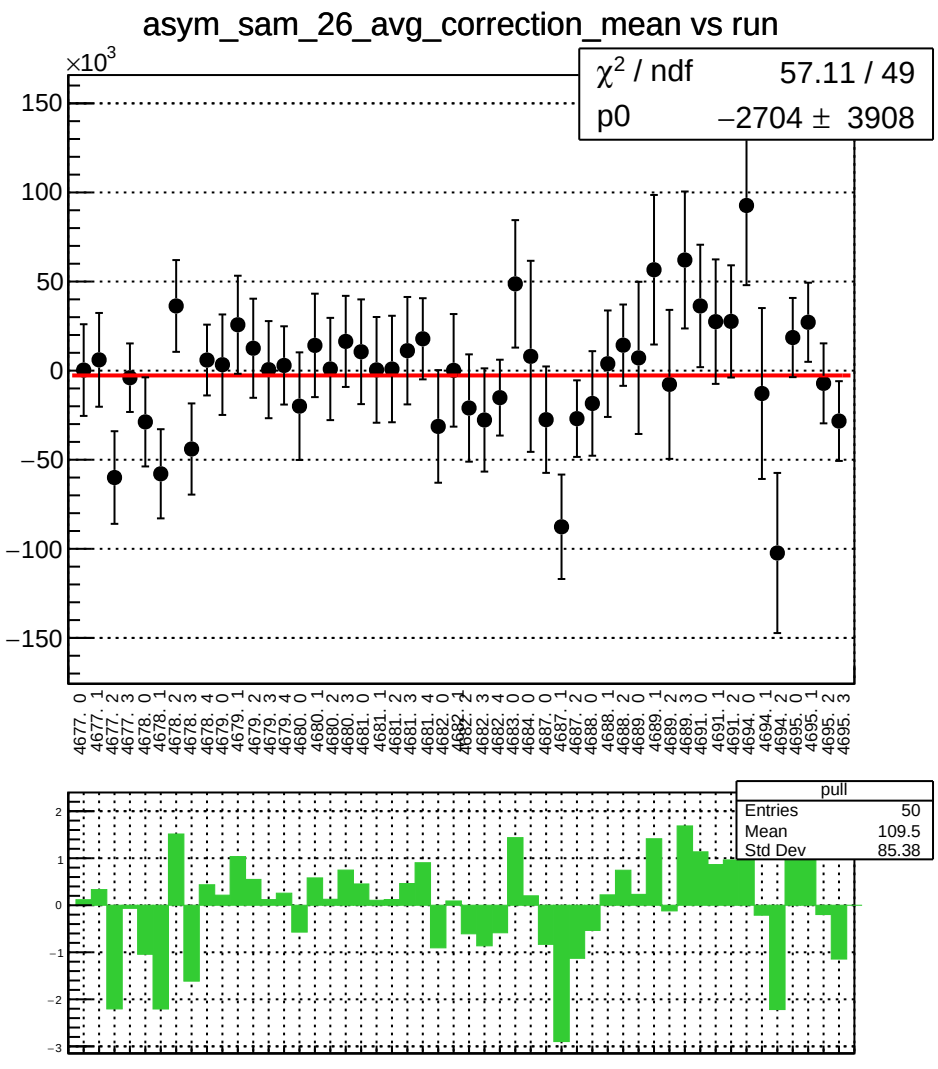

pull1D
Entries 50
Mean 0.05927
Std Dev 1.035

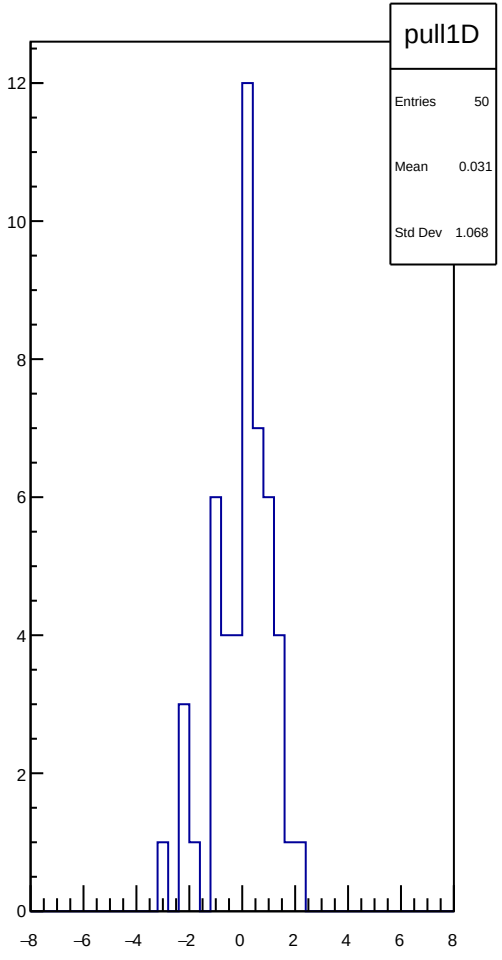

asym_sam_15_avg_correction_rms vs run
χ² / ndf 1.312e+05 / 49
p0 112.6 ± 0.1214
400
350
300
250
200
150
100
50
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

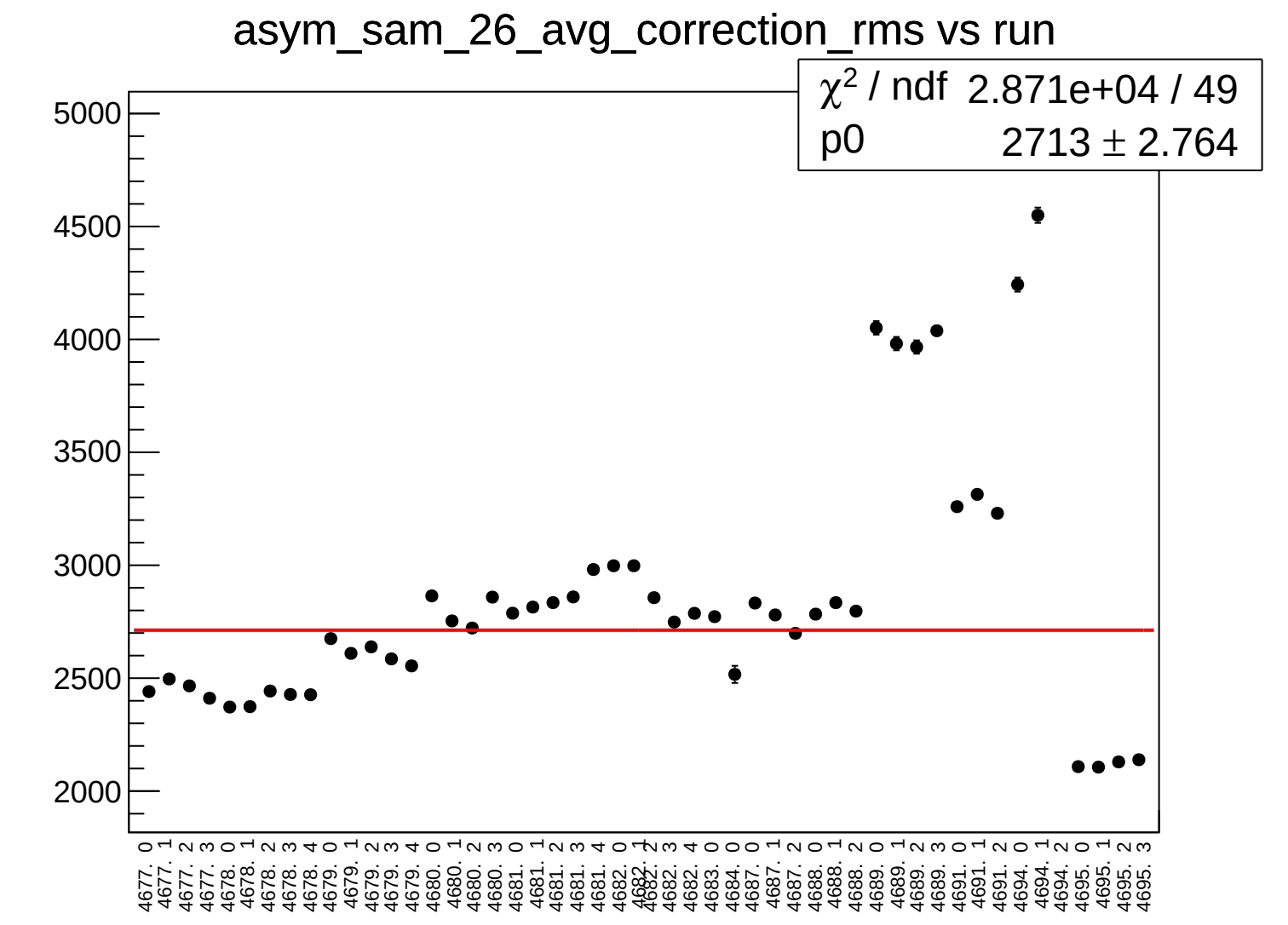

reg_asym_sam_26_avg_mean vs run
χ² / ndf 31.52 / 49
p0 281 ± 1832
pull
Entries 50
Mean −62.46
Std Dev 94.43

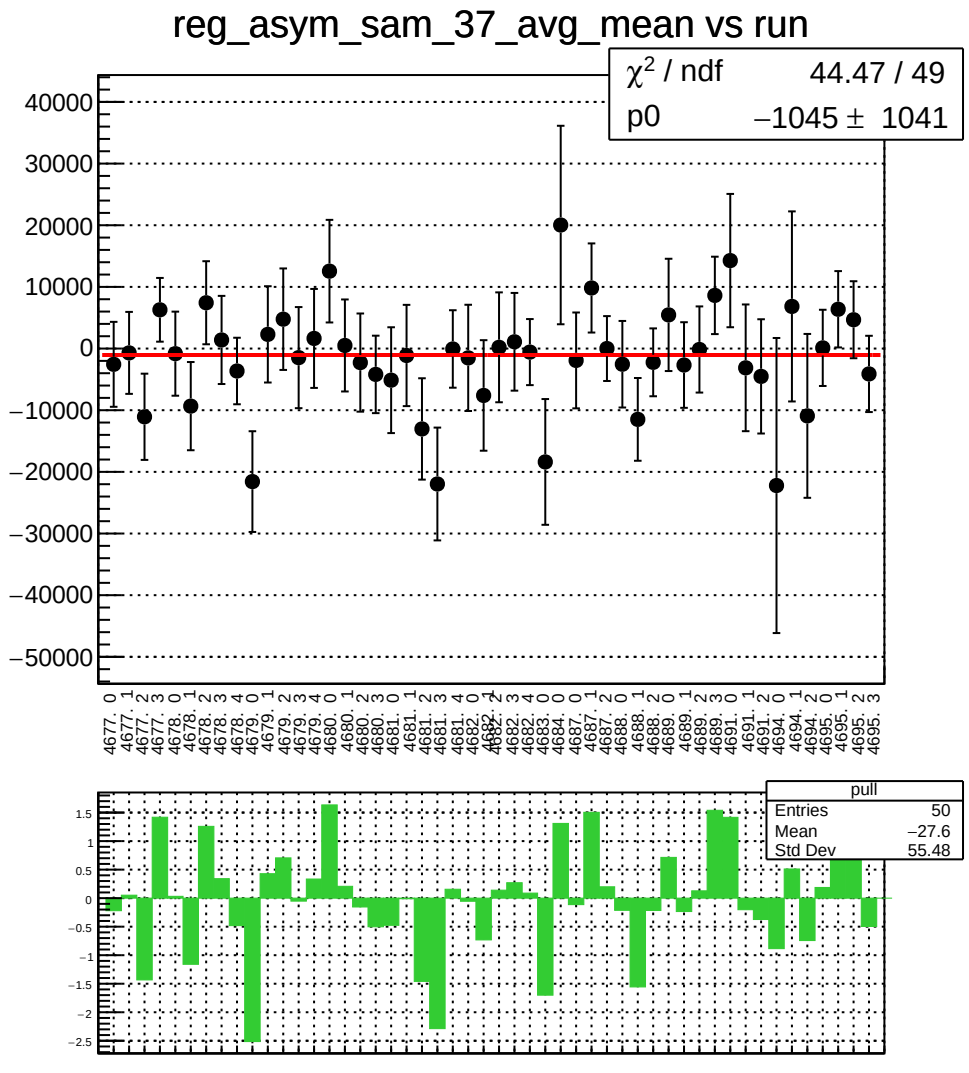

pull1D
Entries 50
Mean 0.01321
Std Dev 0.7939

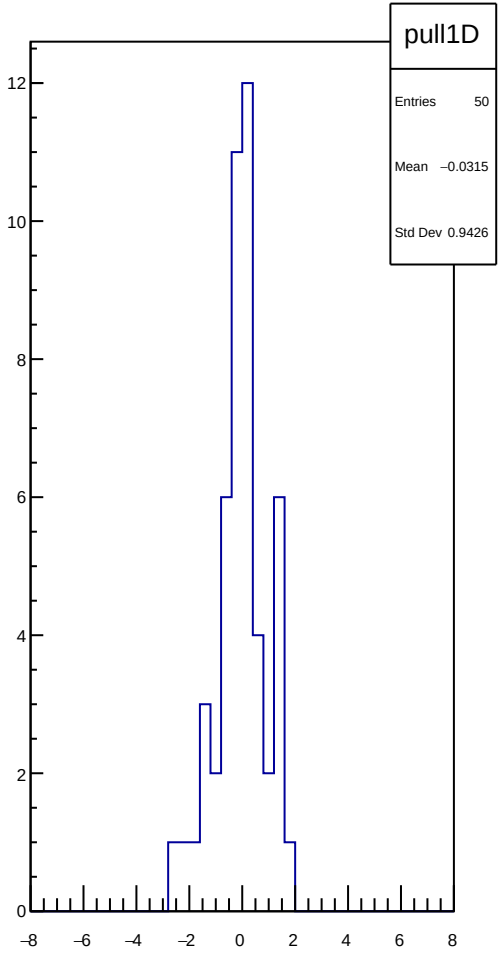

reg_asym_sam_26_avg_rms vs run
χ² / ndf 4624 / 49
p0 1287 ± 1.295
1600
1500
1400
1300
1200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

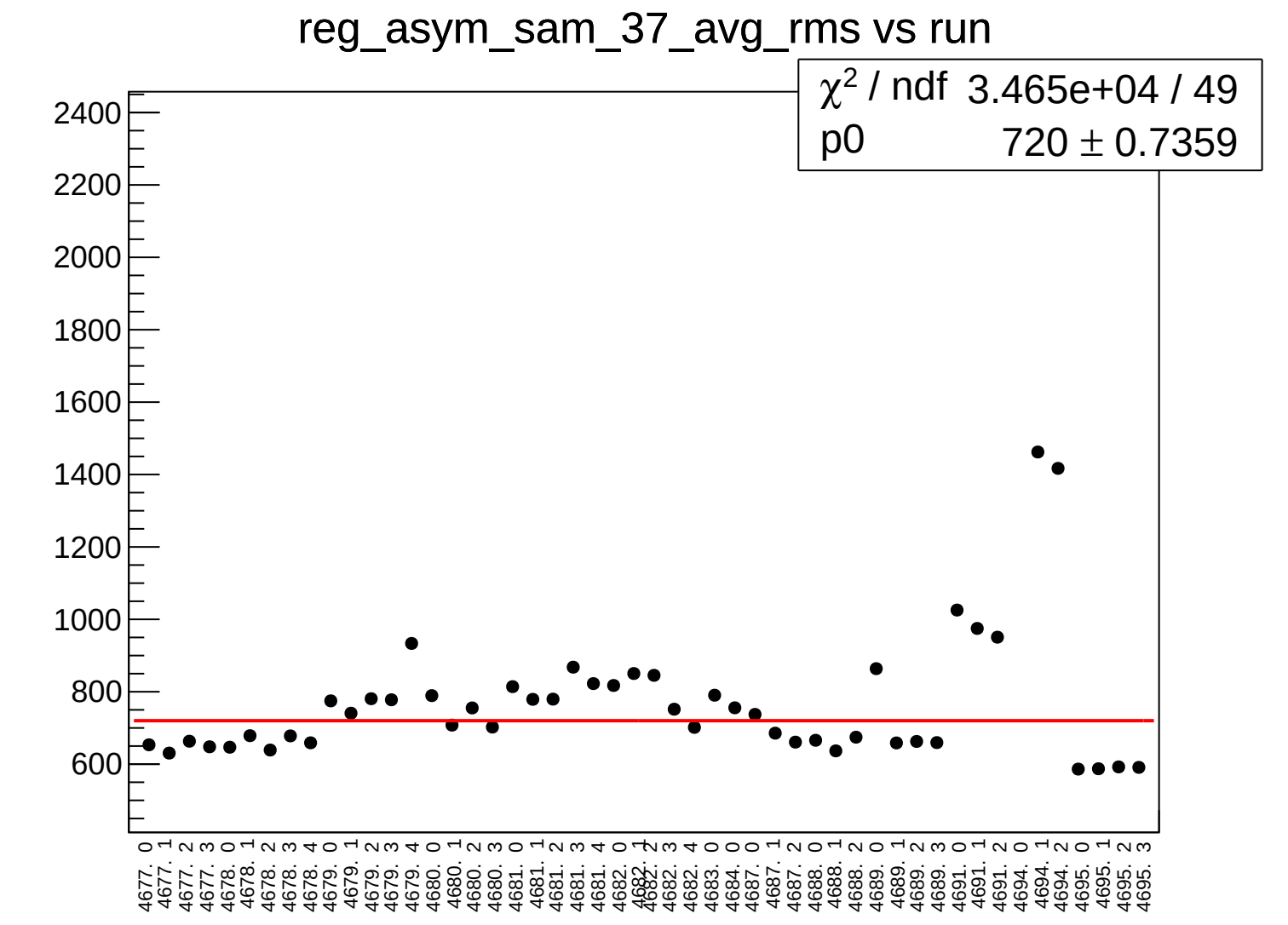

asym_sam_26_avg_correction_mean vs run
×10^3
χ² / ndf 57.11 / 49
p0 −2704 ± 3908
150
100
50
0
−50
−100
−150
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 109.5
Std Dev 85.38
2
1
0
−1
−2
−3

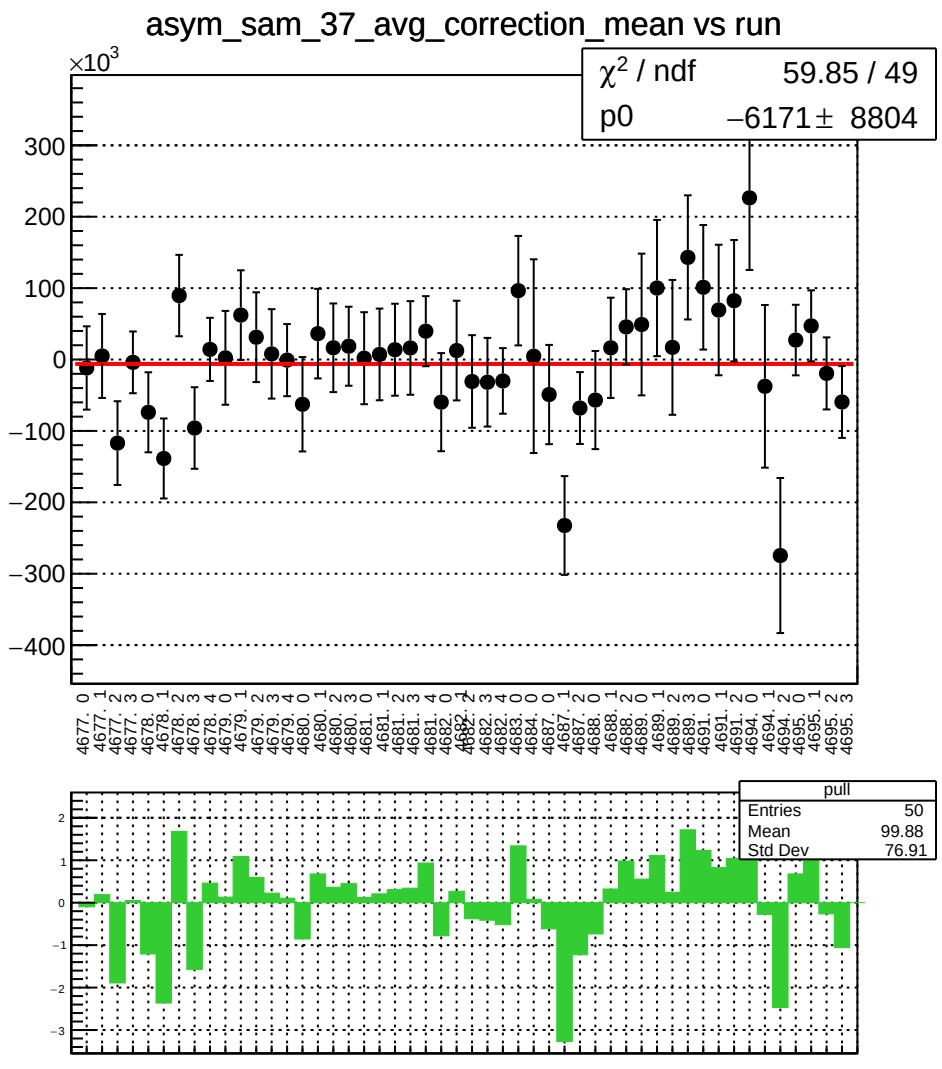

pull1D
Entries 50
Mean 0.031
Std Dev 1.068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

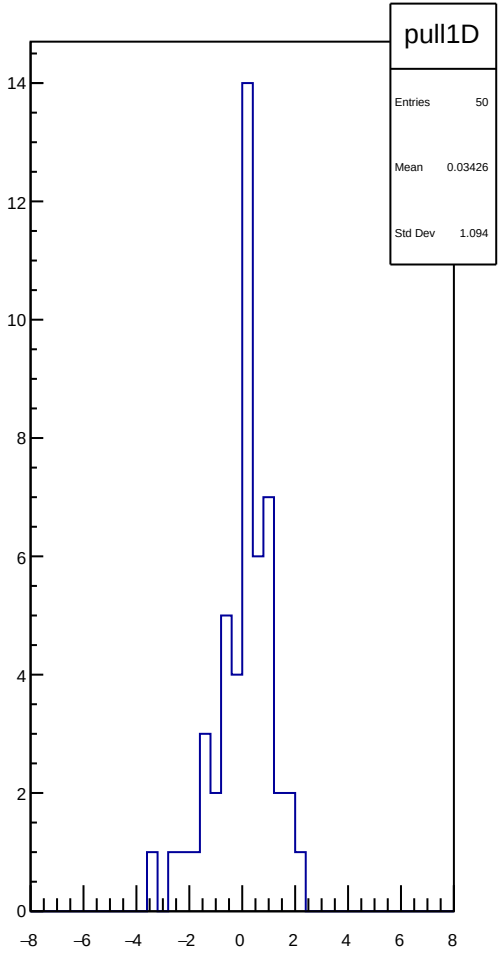

asym_sam_26_avg_correction_rms vs run
χ² / ndf 2.871e+04 / 49
p0 2713 ± 2.764
5000
4500
4000
3500
3000
2500
2000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

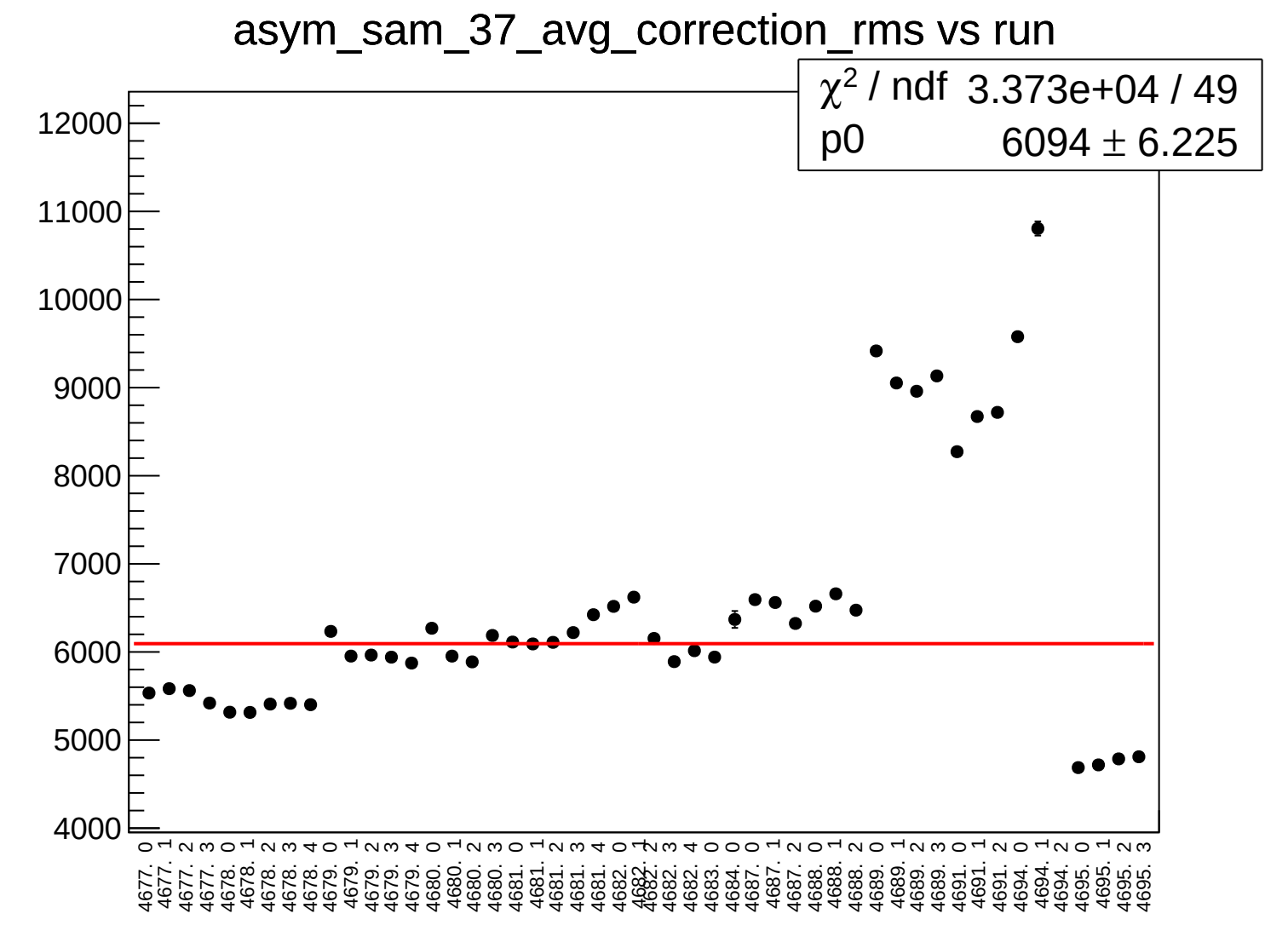

reg_asym_sam_37_avg_mean vs run
χ² / ndf 44.47 / 49
p0 −1045 ± 1041
pull
Entries 50
Mean −27.6
Std Dev 55.48

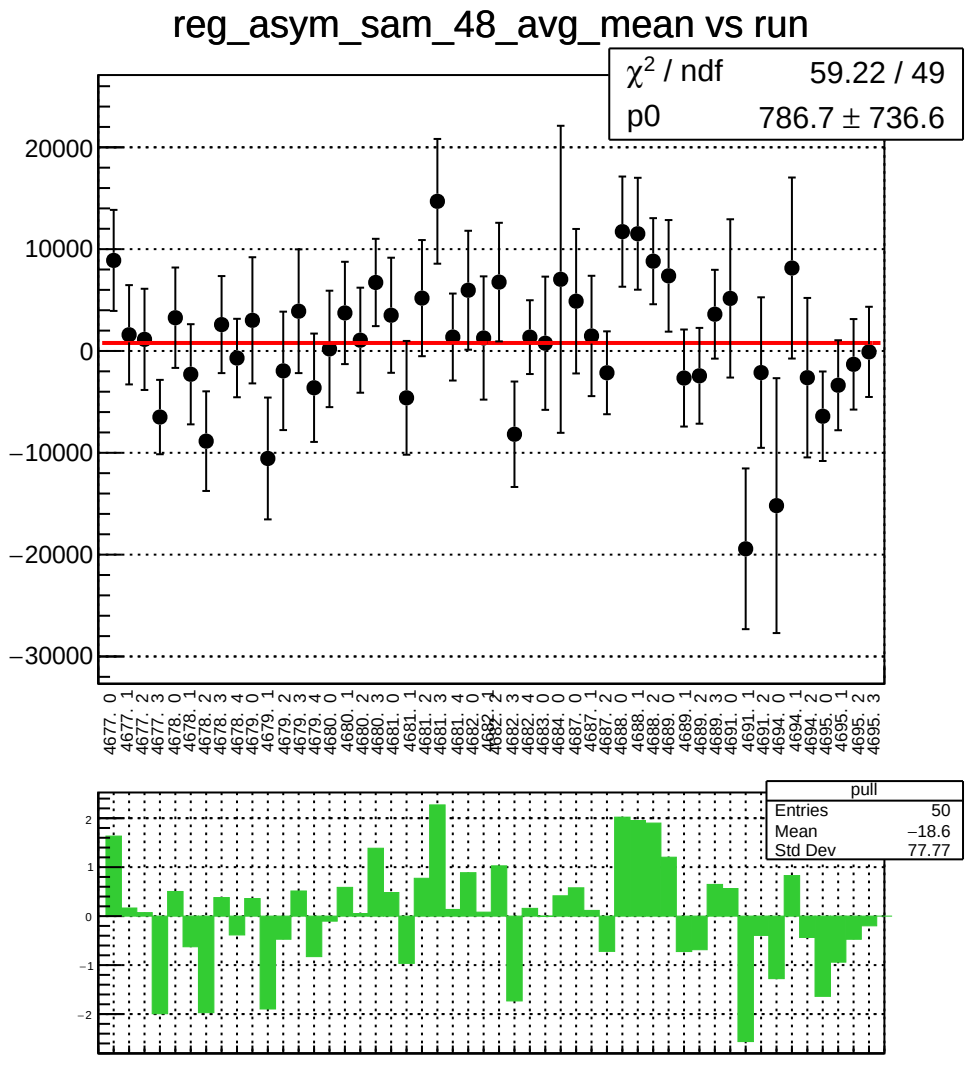

pull1D
Entries 50
Mean −0.0315
Std Dev 0.9426

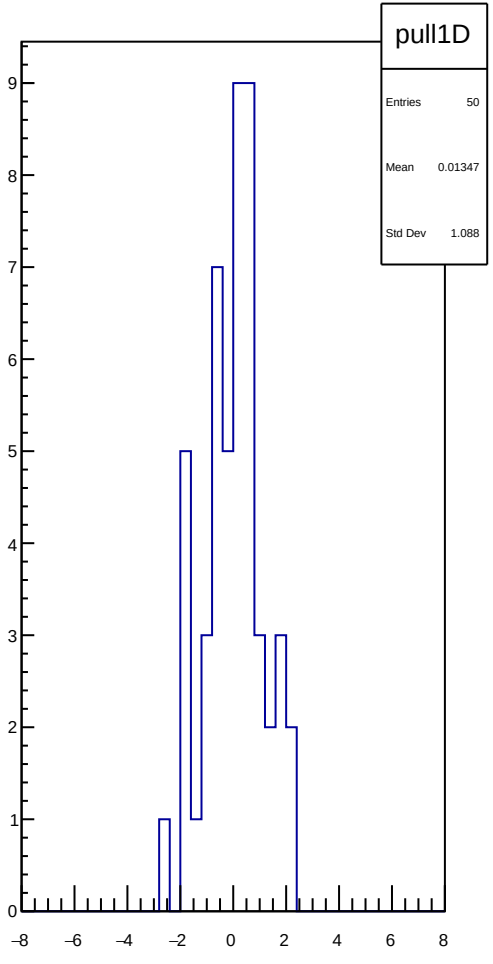

reg_asym_sam_37_avg_rms vs run
χ² / ndf 3.465e+04 / 49
p0 720 ± 0.7359
2400
2200
2000
1800
1600
1400
1200
1000
800
600
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

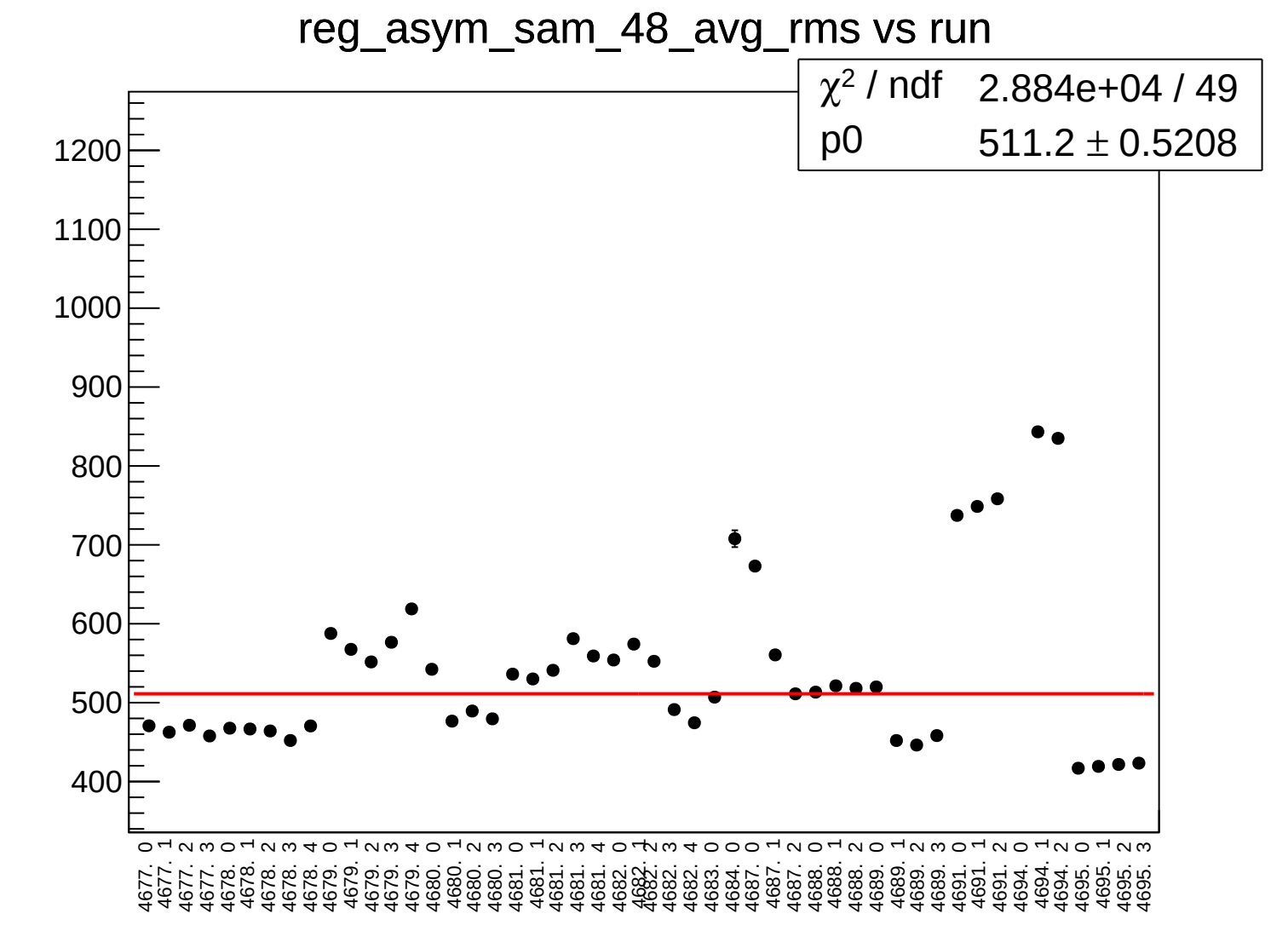

asym_sam_37_avg_correction_mean vs run
×10^3
χ² / ndf 59.85 / 49
p0 −6171 ± 8804
300
200
100
0
−100
−200
−300
−400
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 99.88
Std Dev 76.91
2
1
0
−1
−2
−3

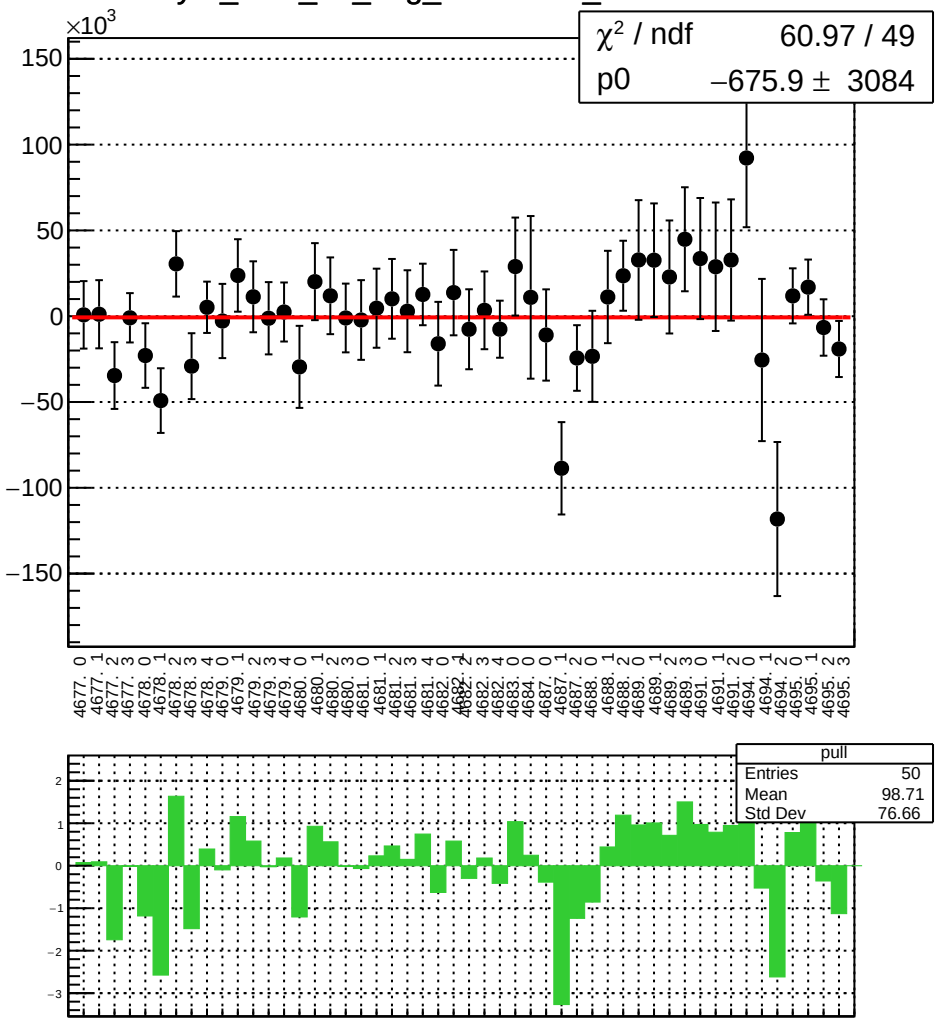

pull1D
Entries 50
Mean 0.03426
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

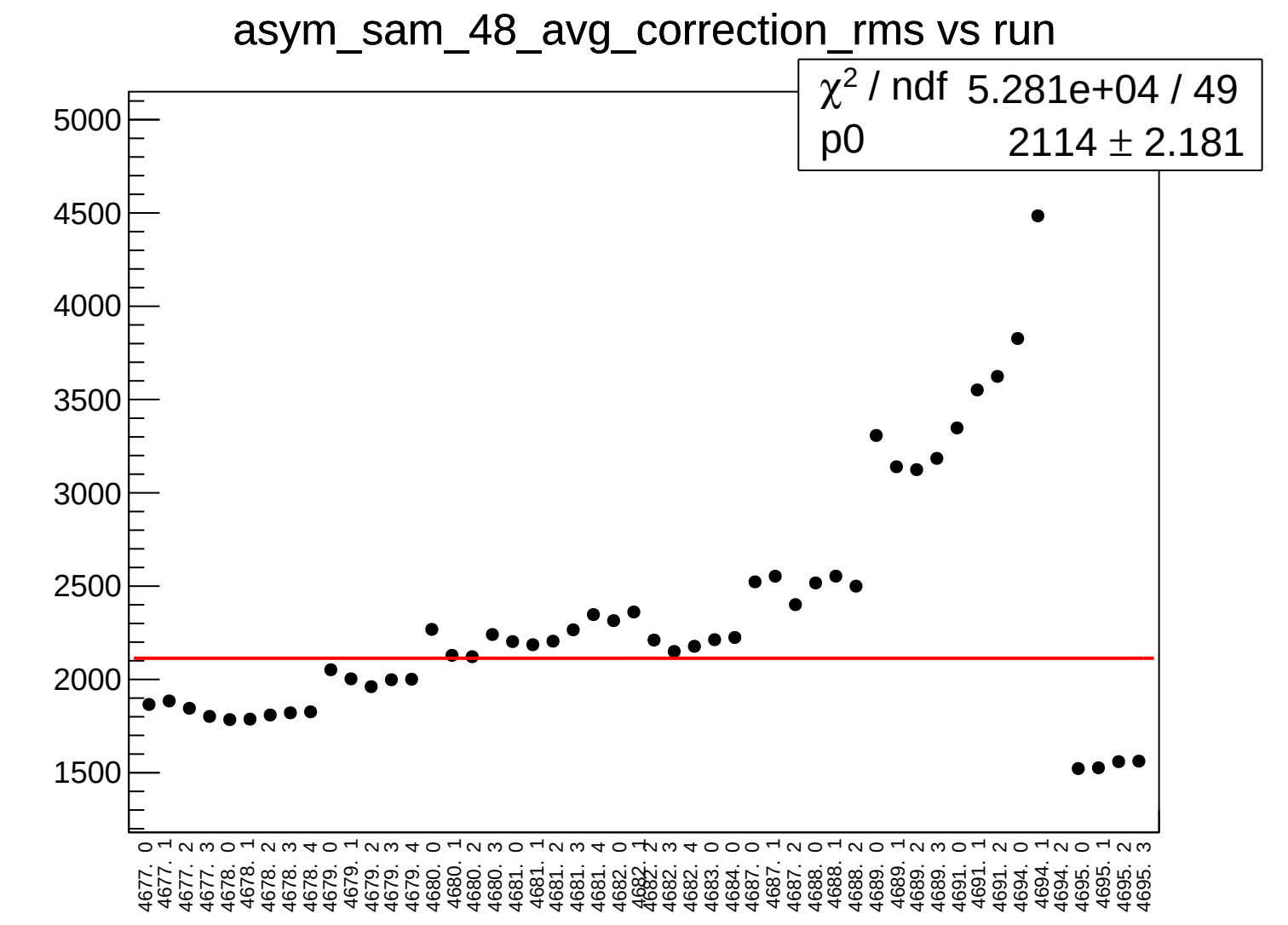

asym_sam_37_avg_correction_rms vs run
χ² / ndf 3.373e+04 / 49
p0 6094 ± 6.225
12000
11000
10000
9000
8000
7000
6000
5000
4000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

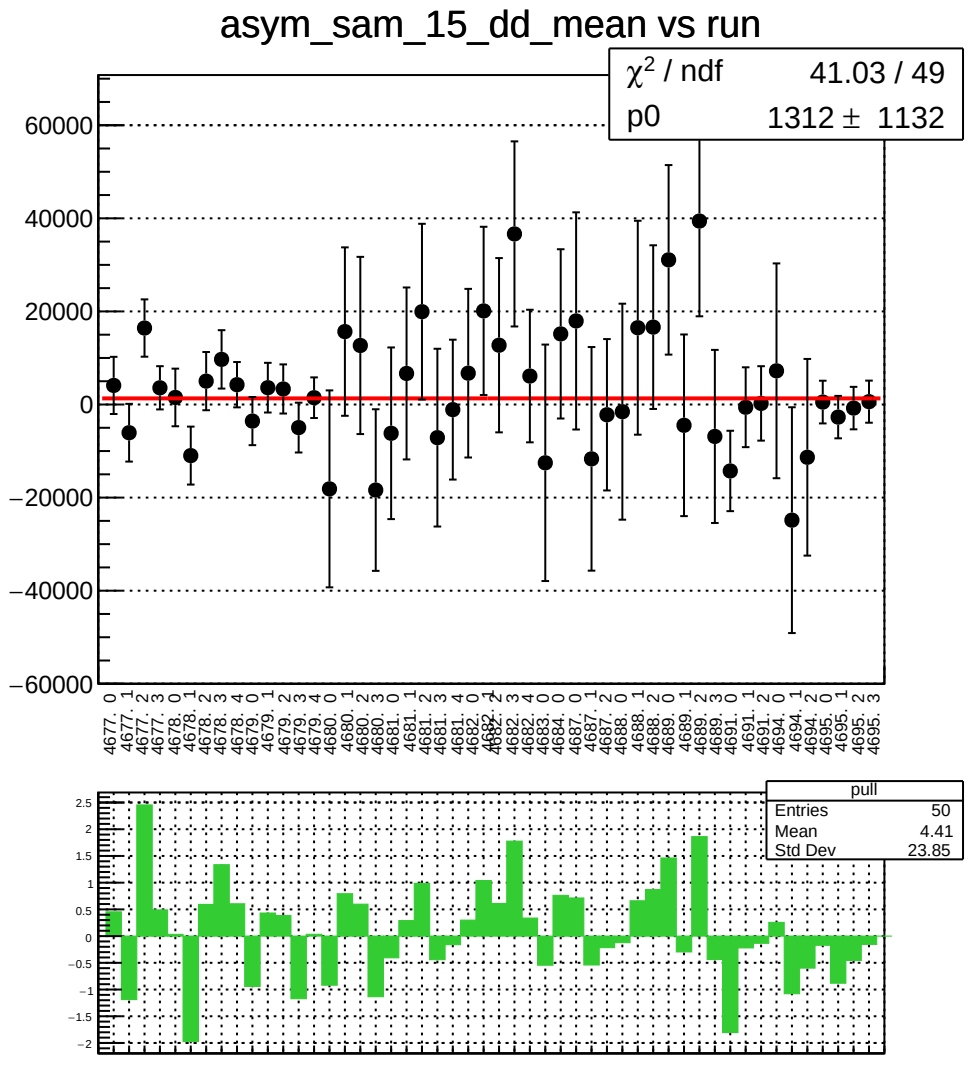

reg_asym_sam_48_avg_mean vs run
χ² / ndf 59.22 / 49
p0 786.7 ± 736.6
pull
Entries 50
Mean −18.6
Std Dev 77.77

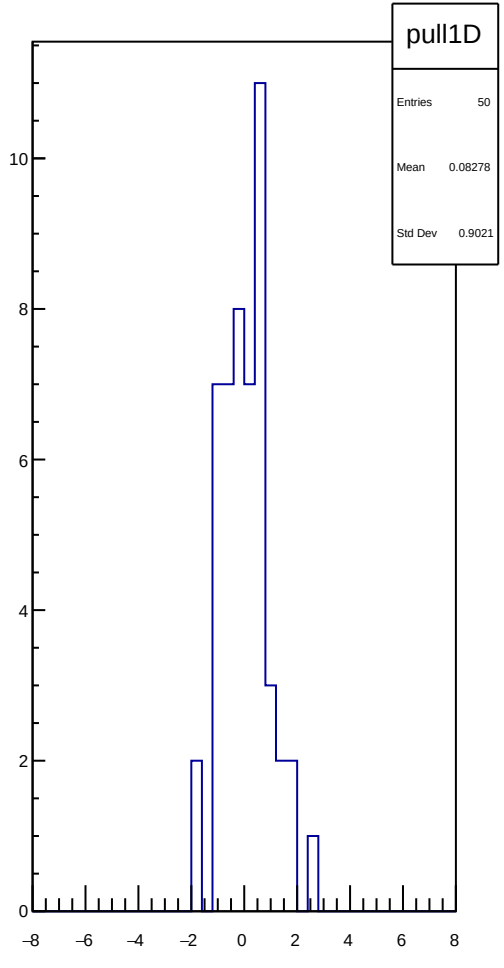

pull1D
Entries 50
Mean 0.01347
Std Dev 1.088

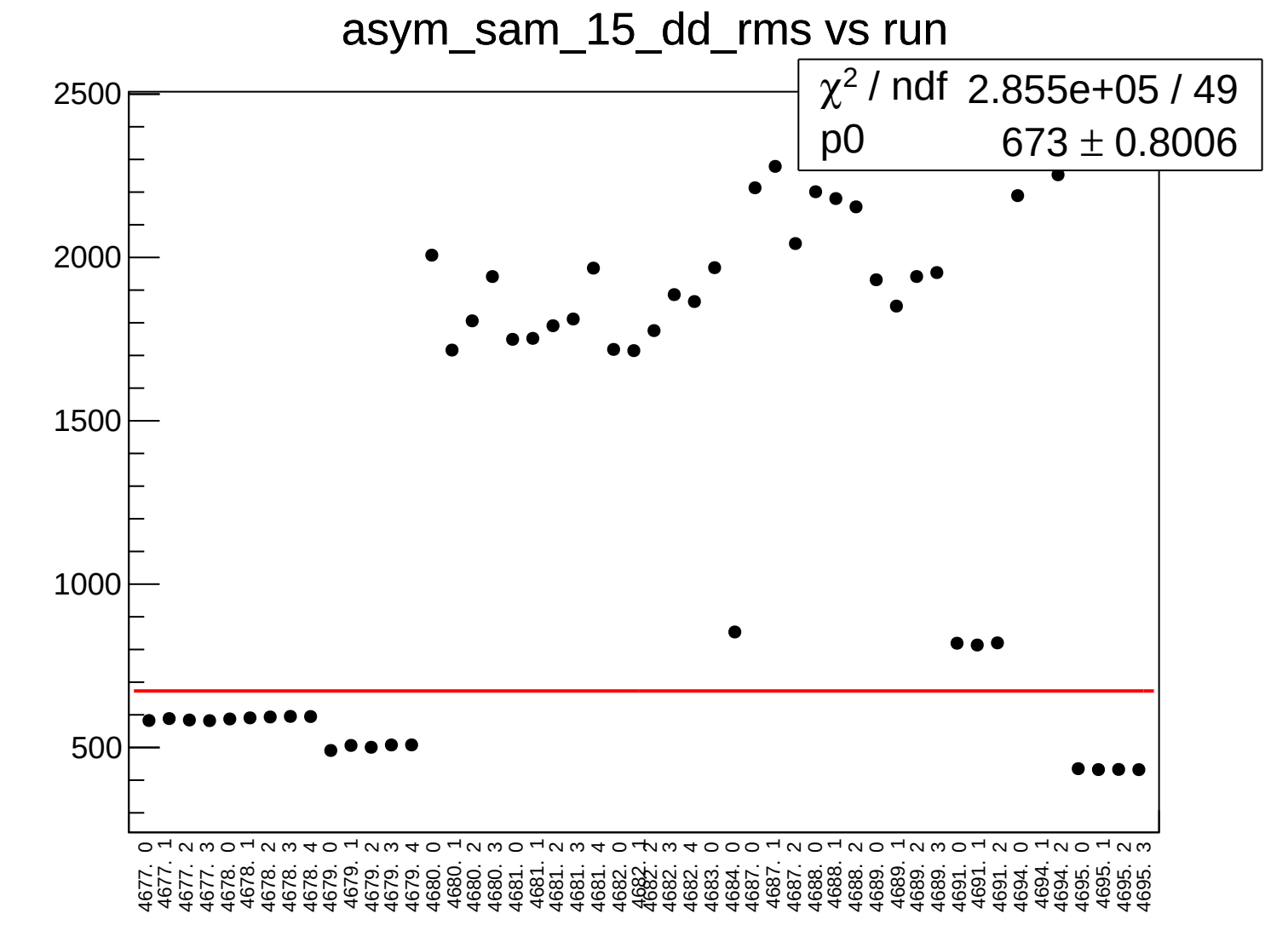

reg_asym_sam_48_avg_rms vs run
χ² / ndf 2.884e+04 / 49
p0 511.2 ± 0.5208
1200
1100
1000
900
800
700
600
500
400
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

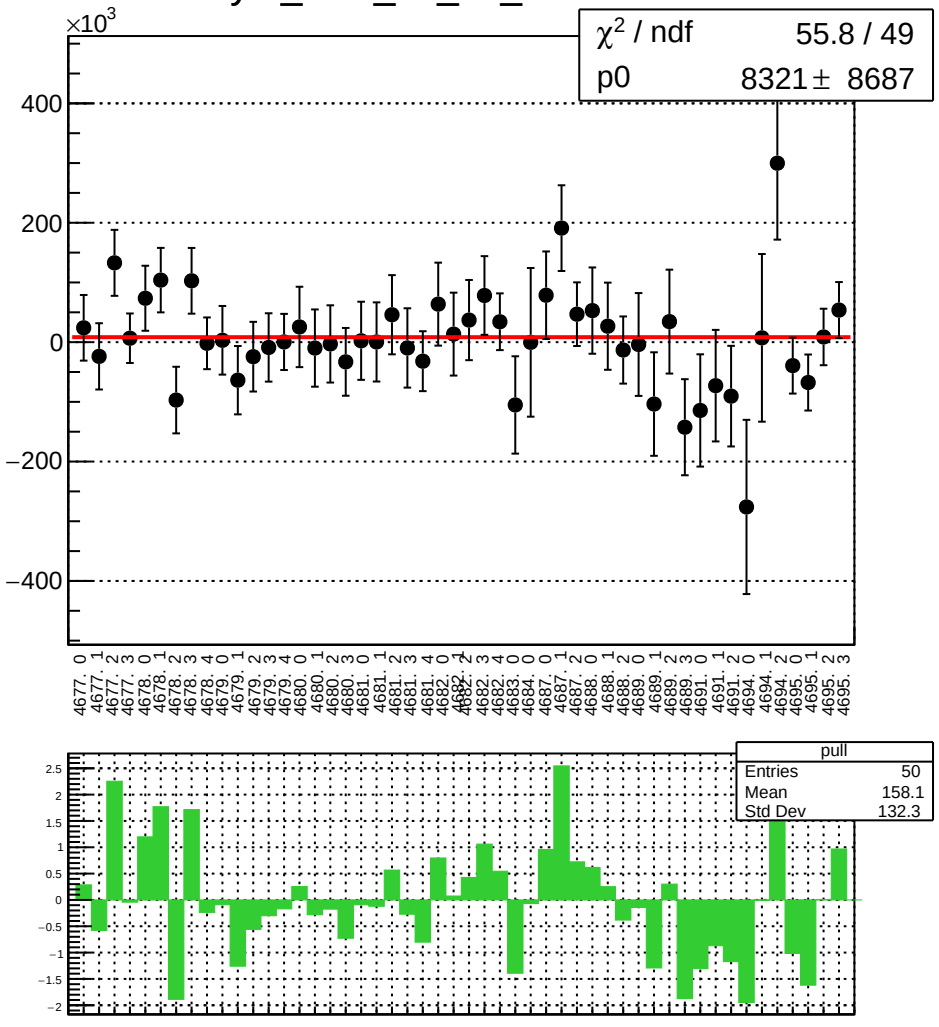

asym_sam_48_avg_correction_mean vs run
×10^3
χ² / ndf 60.97 / 49
p0 −675.9 ± 3084
150
100
50
0
−50
−100
−150
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 98.71
Std Dev 76.66
2
1
0
−1
−2
−3
pull1D
Entries 50
Mean 0.03614
Std Dev 1.104
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

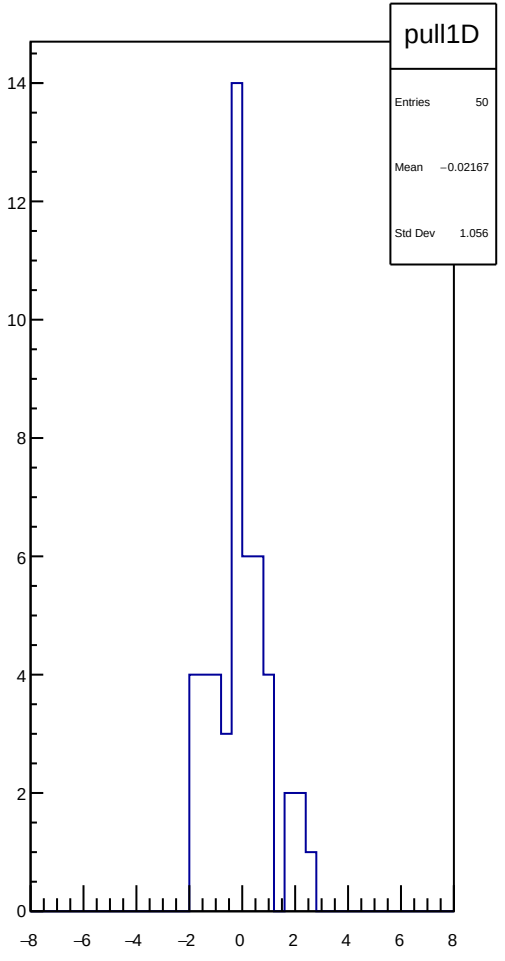

asym_sam_48_avg_correction_rms vs run
χ² / ndf 5.281e+04 / 49
p0 2114 ± 2.181
5000
4500
4000
3500
3000
2500
2000
1500
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

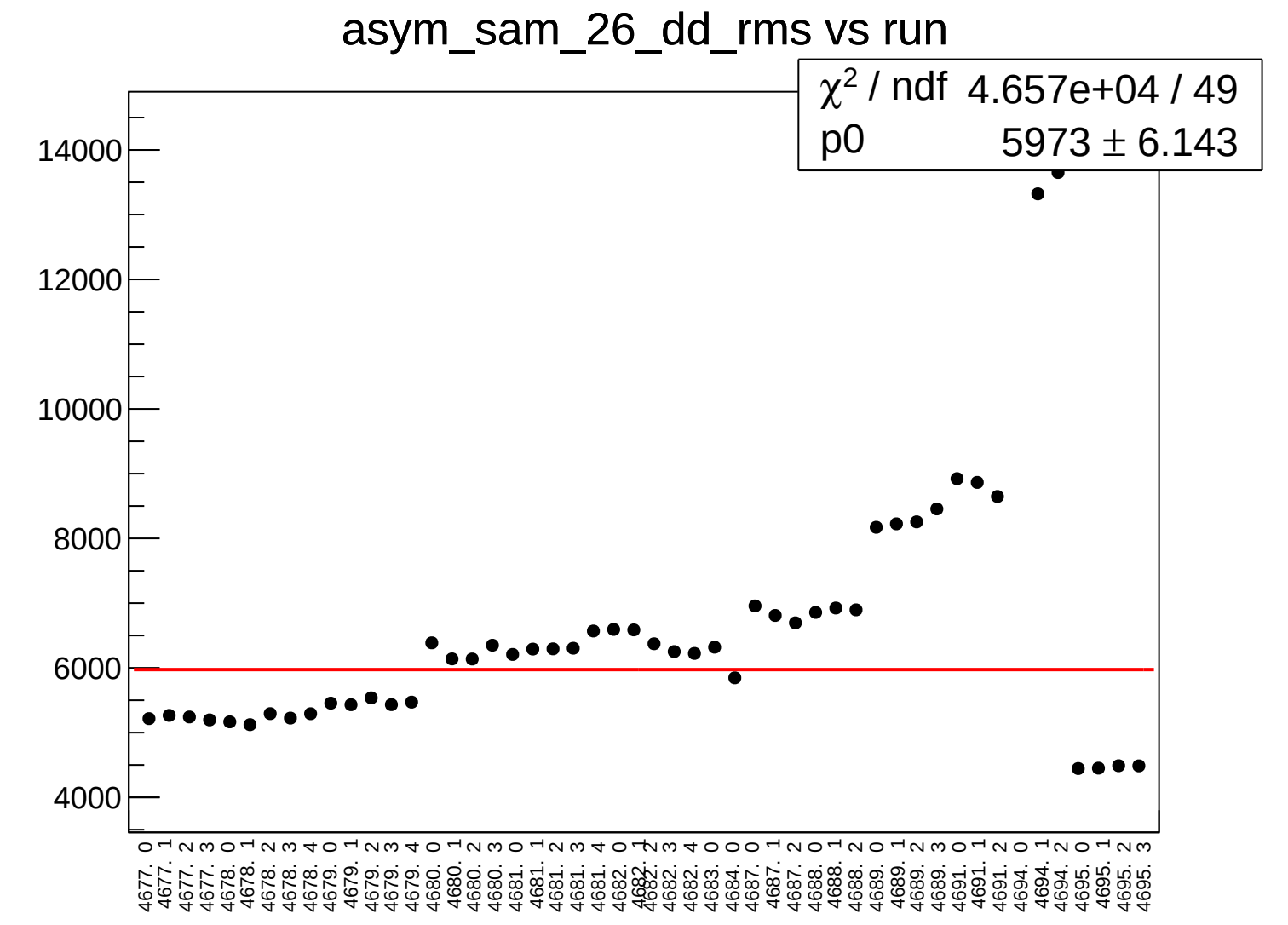

asym_sam_15_dd_mean vs run
χ^2 / ndf 41.03 / 49
p0 1312 ± 1132
pull
Entries 50
Mean 4.41
Std Dev 23.85

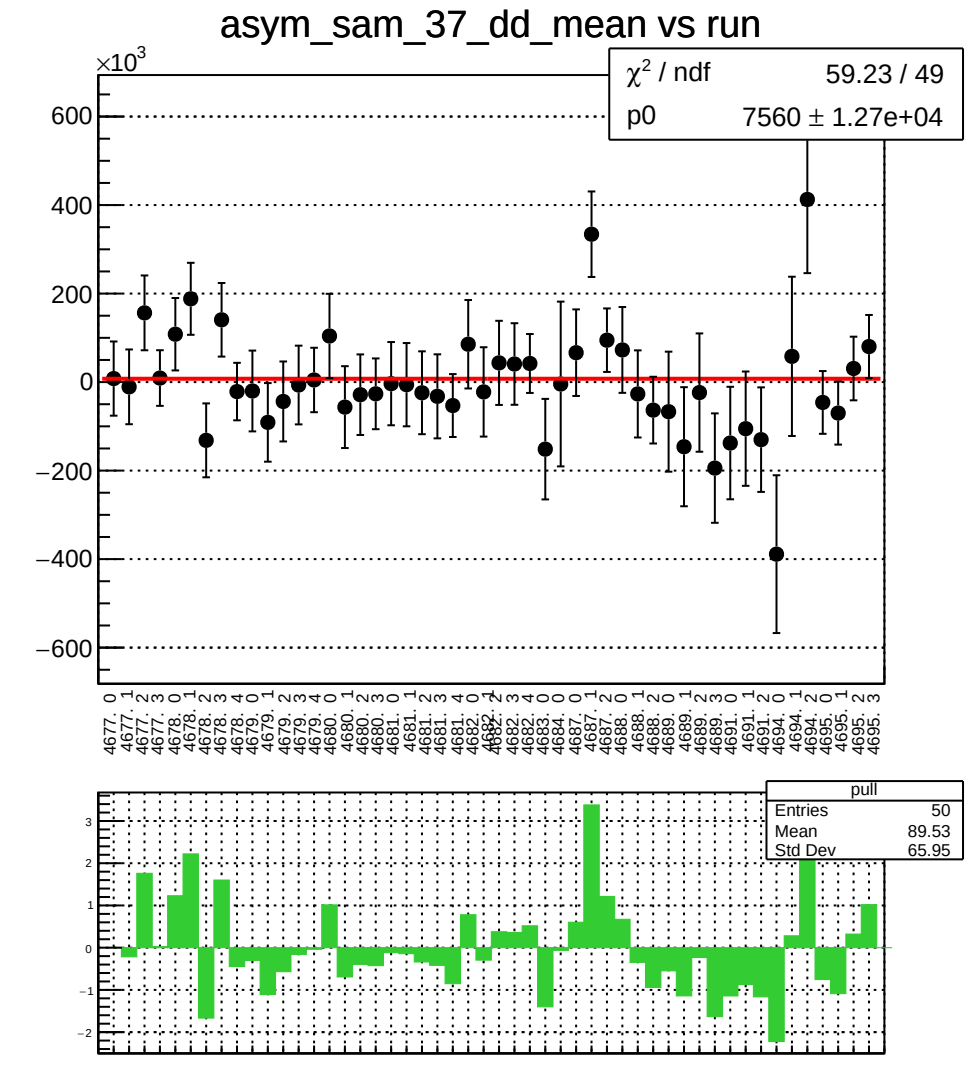

pull1D
Entries 50
Mean 0.08278
Std Dev 0.9021

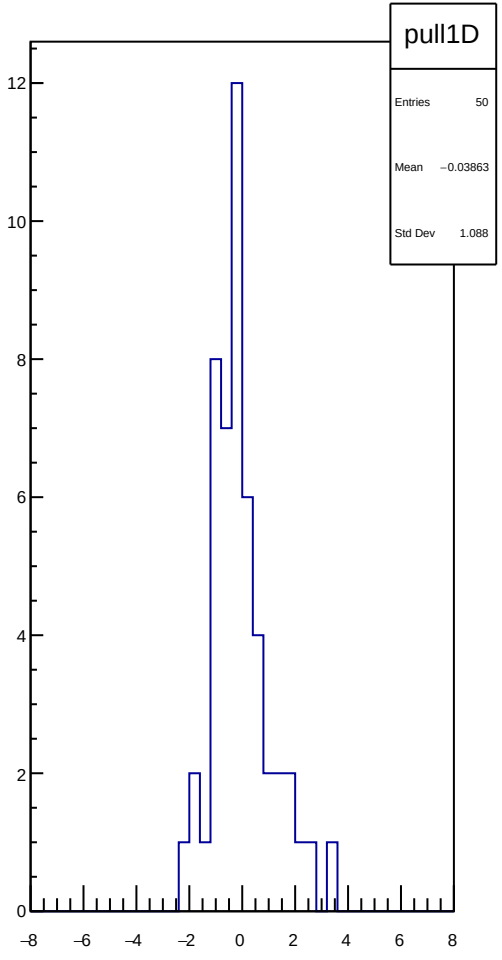

asym_sam_15_dd_rms vs run
χ² / ndf 2.855e+05 / 49
p0 673 ± 0.8006
2500
2000
1500
1000
500
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

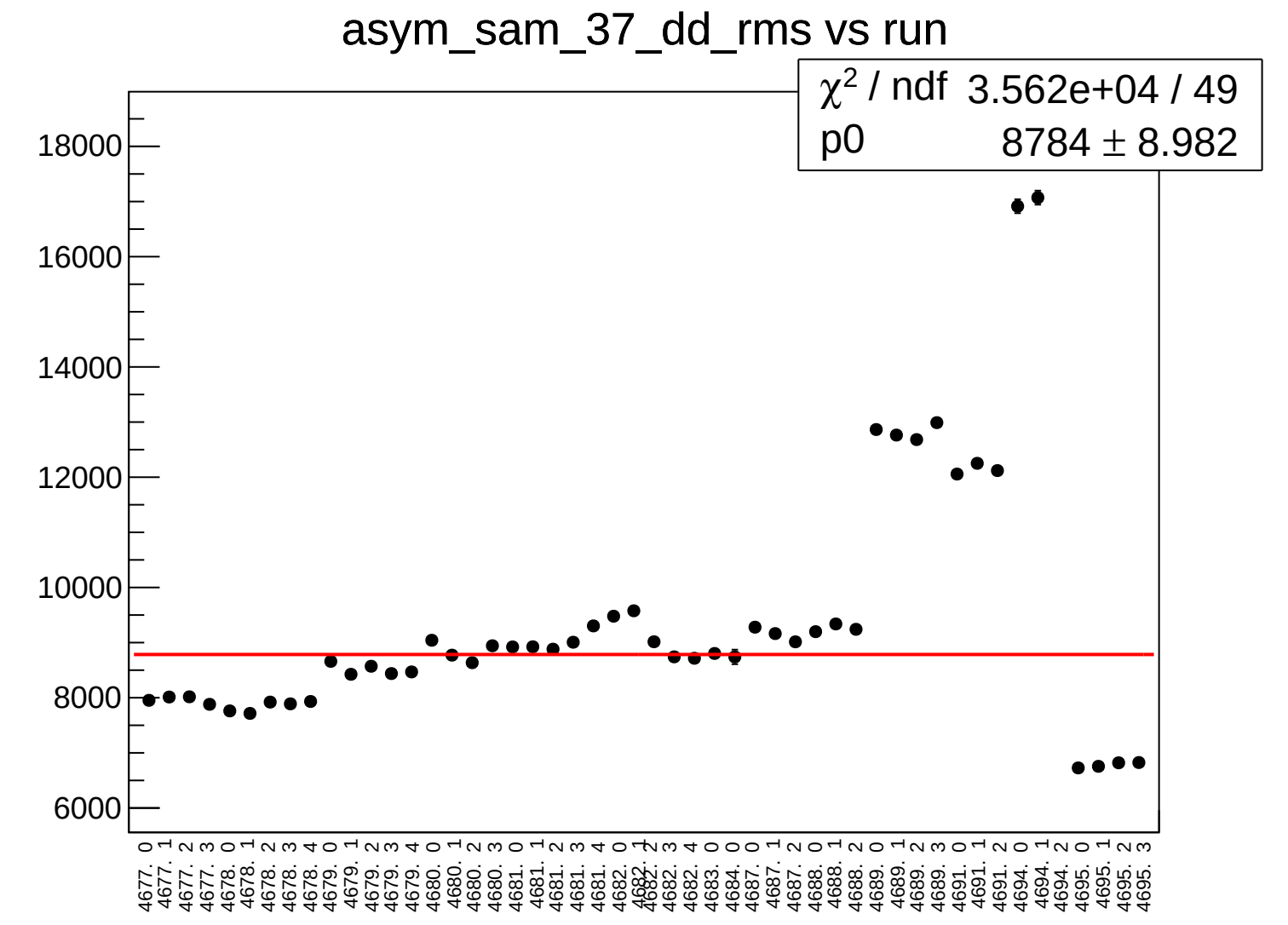

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 55.8 / 49
p0 8321 ± 8687
400
200
0
−200
−400
pull
Entries 50
Mean 158.1
Std Dev 132.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

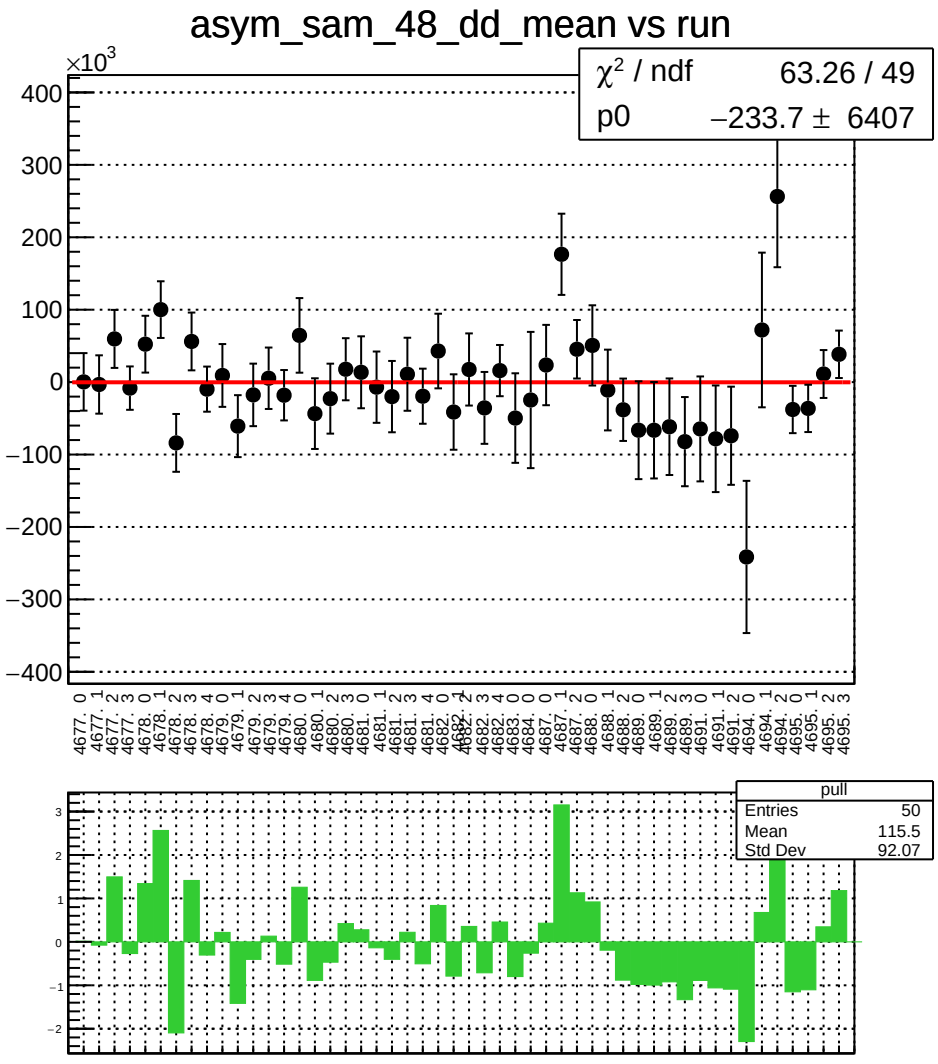

pull1D
Entries 50
Mean −0.02167
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

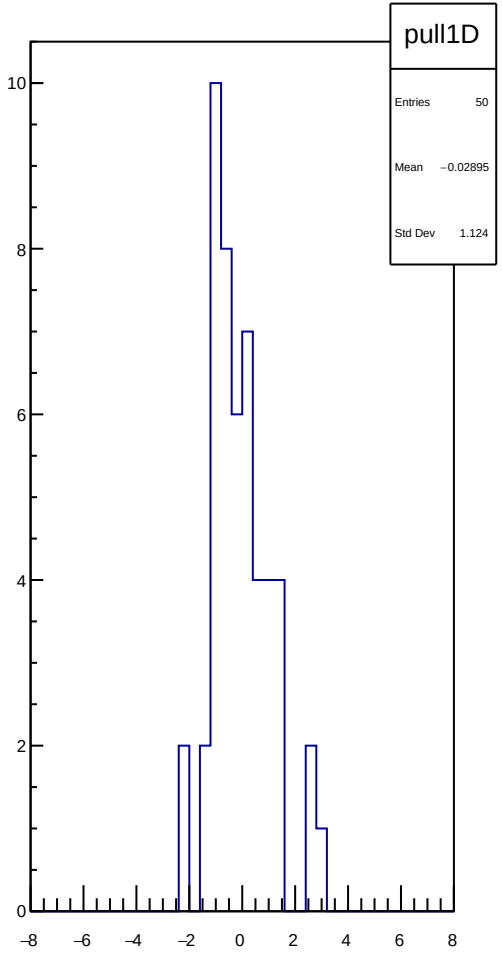

asym_sam_26_dd_rms vs run
χ² / ndf 4.657e+04 / 49
p0 5973 ± 6.143
14000
12000
10000
8000
6000
4000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

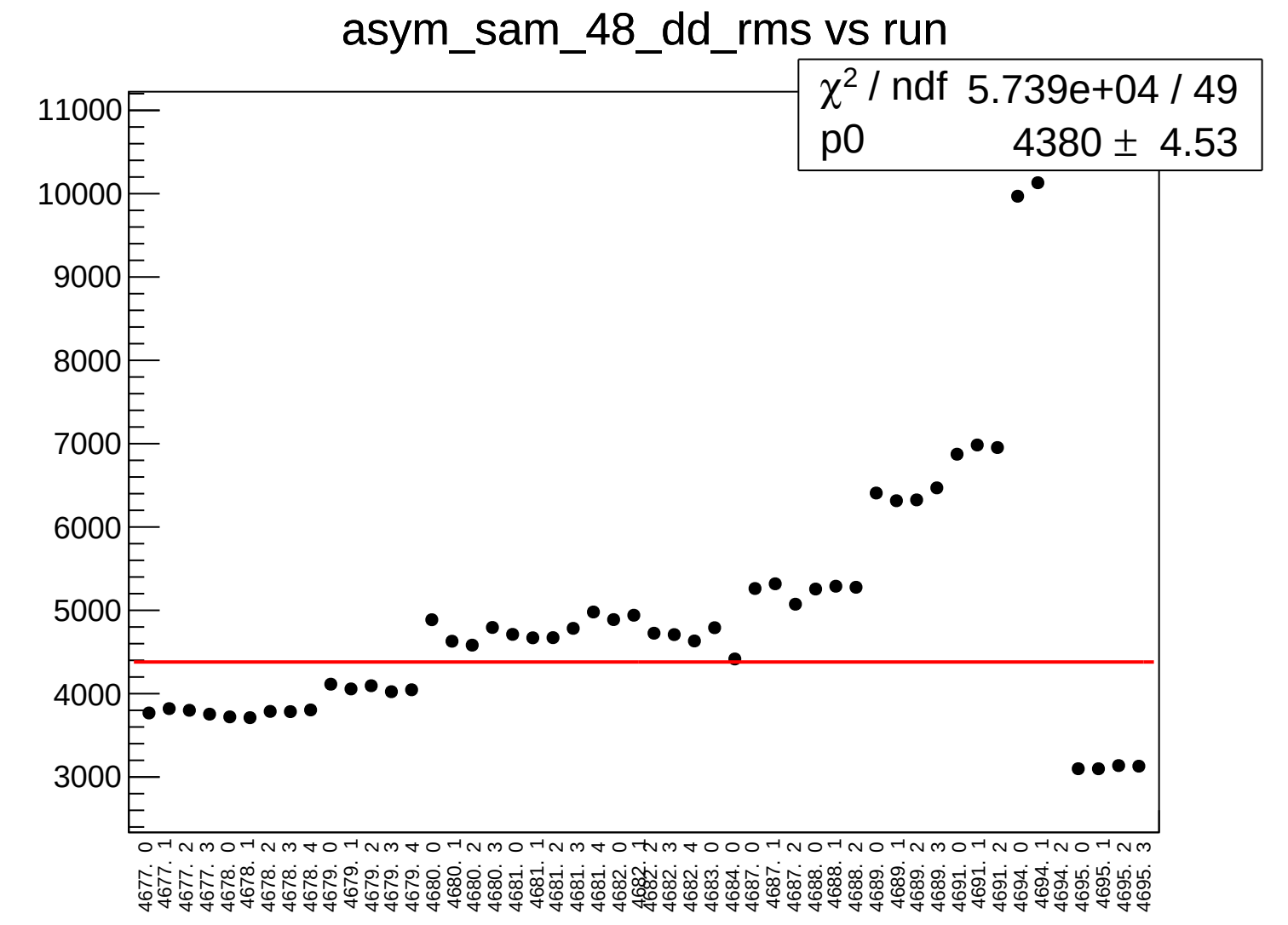

asym_sam_37_dd_mean vs run
×10^3
χ² / ndf 59.23 / 49
p0 7560 ± 1.27e+04
600
400
200
0
−200
−400
−600
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 89.53
Std Dev 65.95
3
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.03863
Std Dev 1.088
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_rms vs run
χ² / ndf 3.562e+04 / 49
p0 8784 ± 8.982
18000
16000
14000
12000
10000
8000
6000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_sam_48_dd_mean vs run
×10^3
χ² / ndf 63.26 / 49
p0 −233.7 ± 6407
pull
Entries 50
Mean 115.5
Std Dev 92.07


pull1D
Entries 50
Mean −0.02895
Std Dev 1.124


asym_sam_48_dd_rms vs run
χ² / ndf 5.739e+04 / 49
p0 4380 ± 4.53
11000
10000
9000
8000
7000
6000
5000
4000
3000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
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4694. 1
4694. 2
4695. 0
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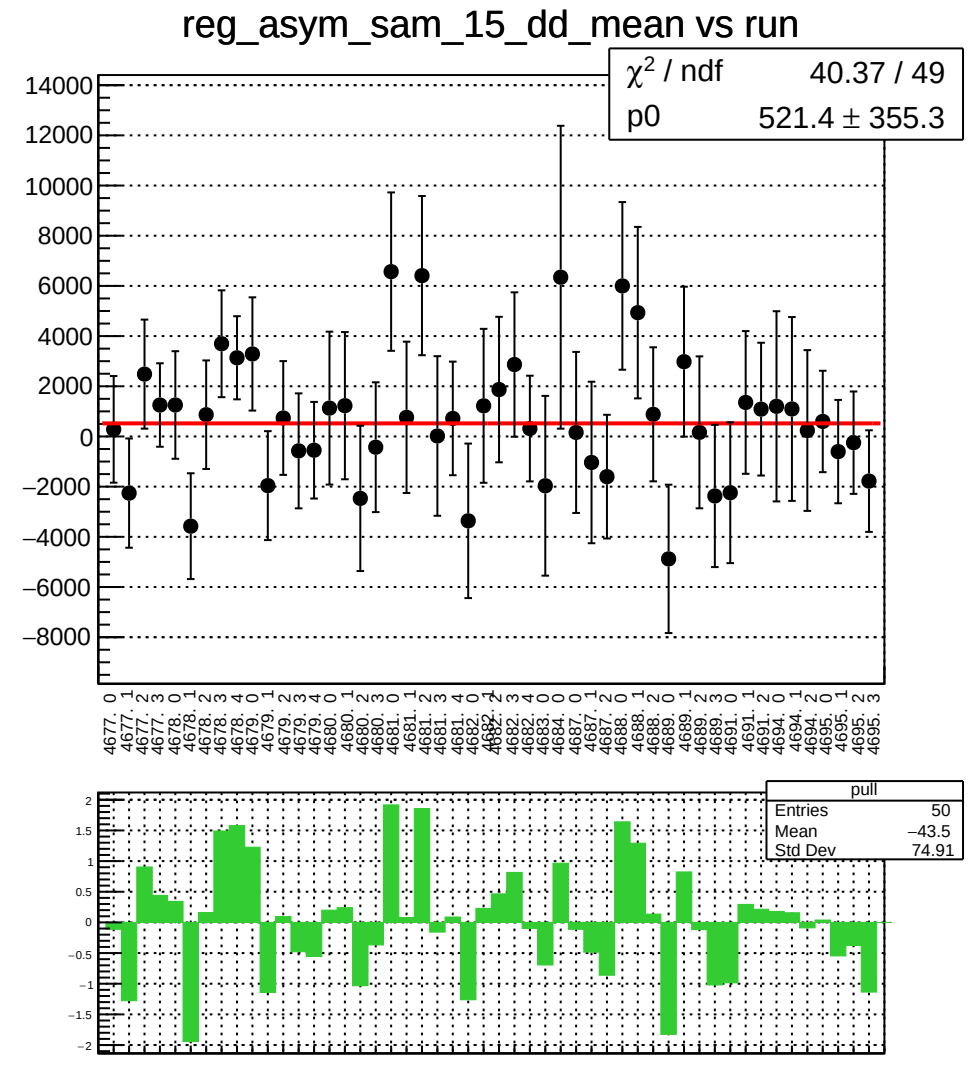
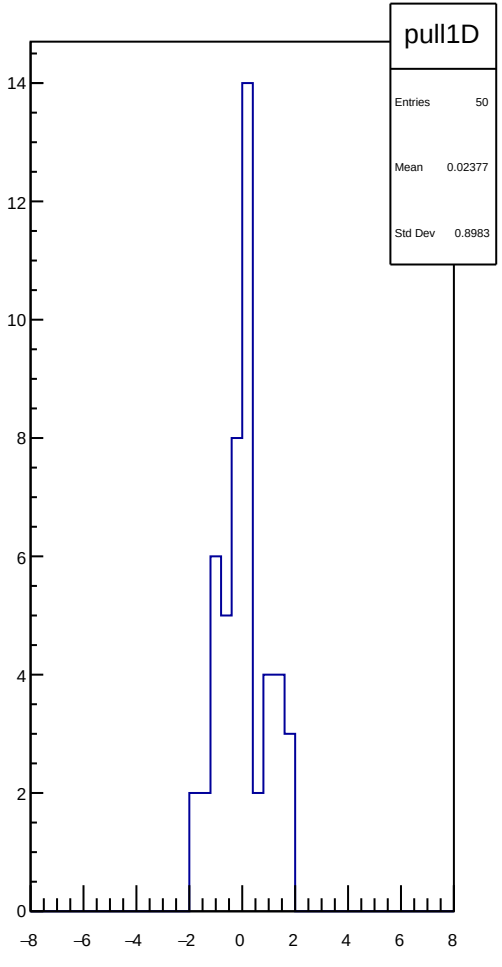
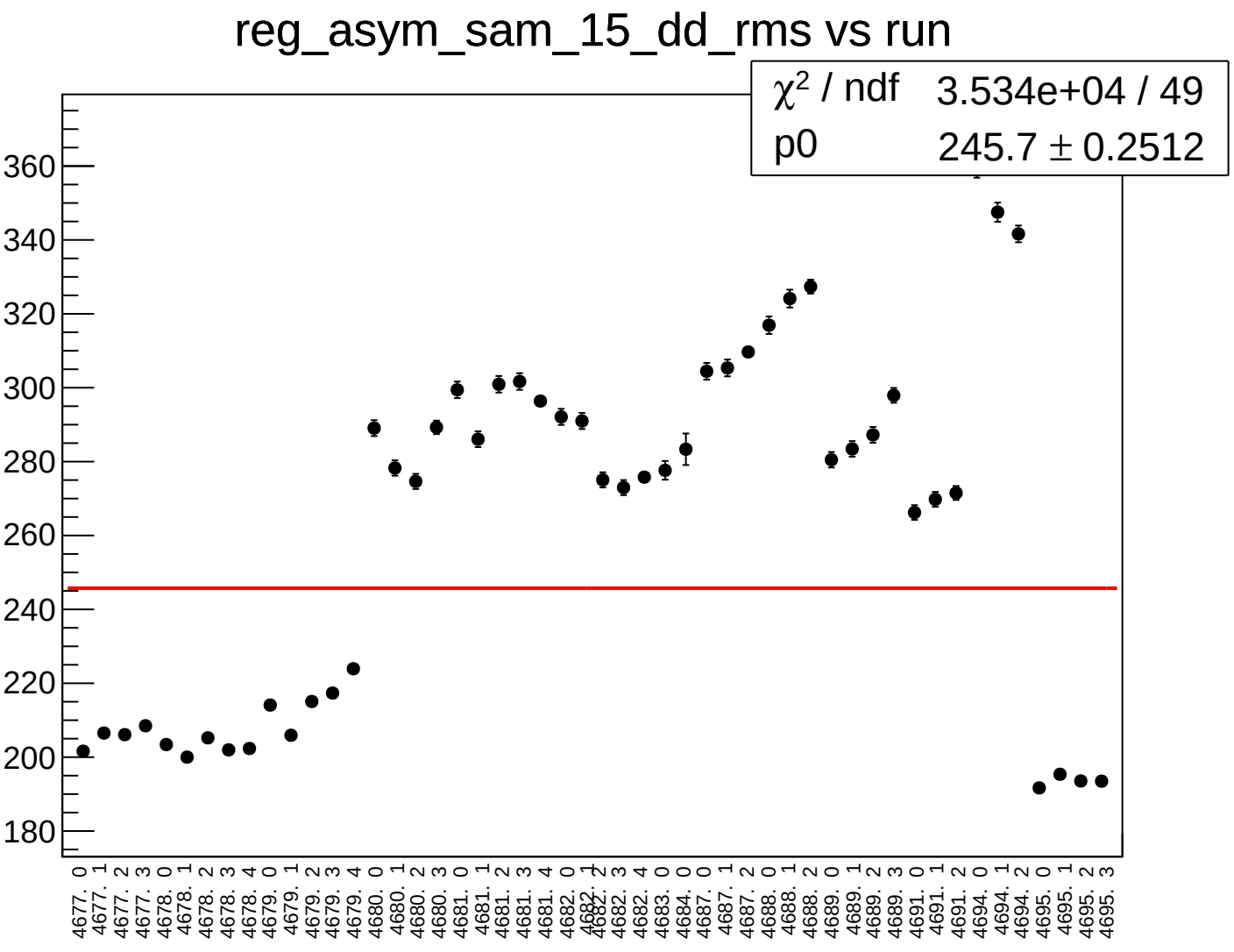
4695. 2
4695. 3


reg_asym_sam_15_dd_mean vs run
χ^2 / ndf 40.37 / 49
p0 521.4 ± 355.3
pull
Entries 50
Mean −43.5
Std Dev 74.91


pull1D
Entries 50
Mean 0.02377
Std Dev 0.8983


reg_asym_sam_15_dd_rms vs run
χ² / ndf 3.534e+04 / 49
p0 245.7 ± 0.2512
360
340
320
300
280
260
240
220
200
180
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
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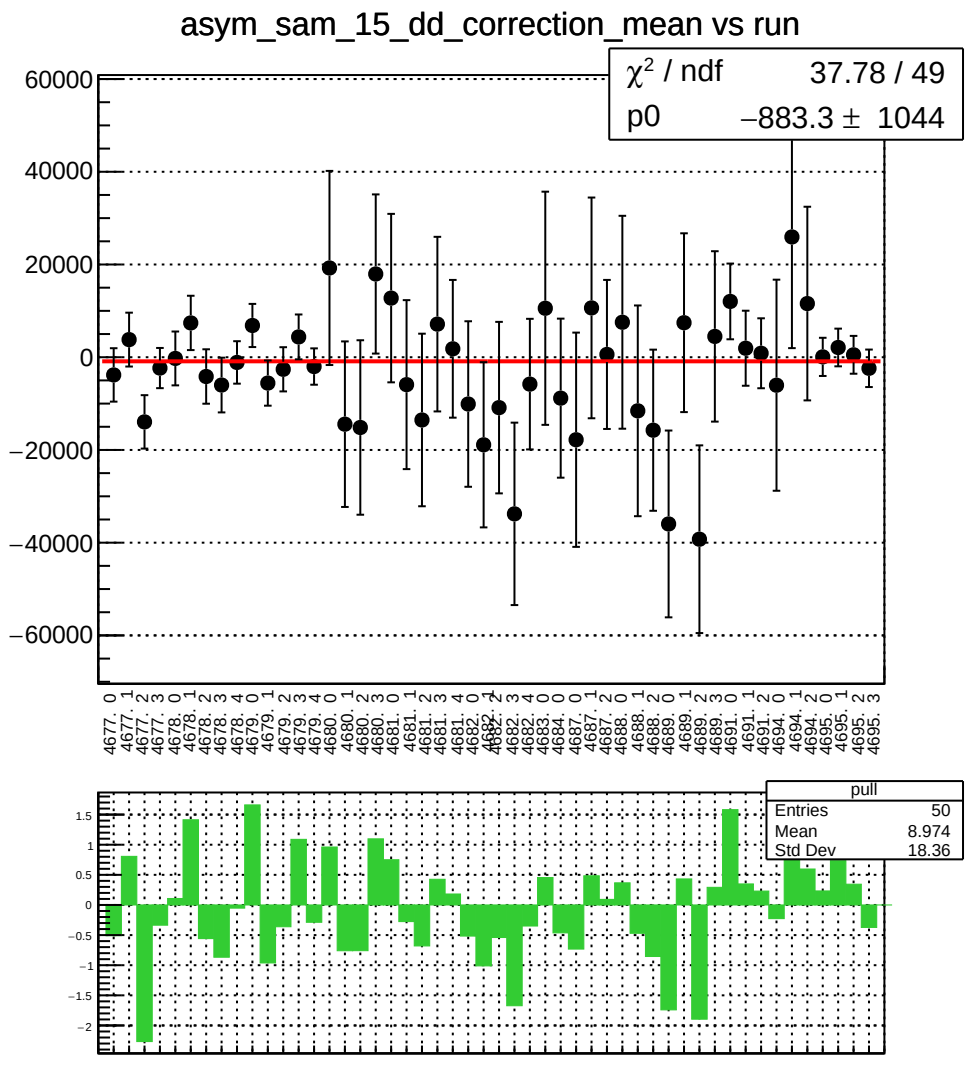
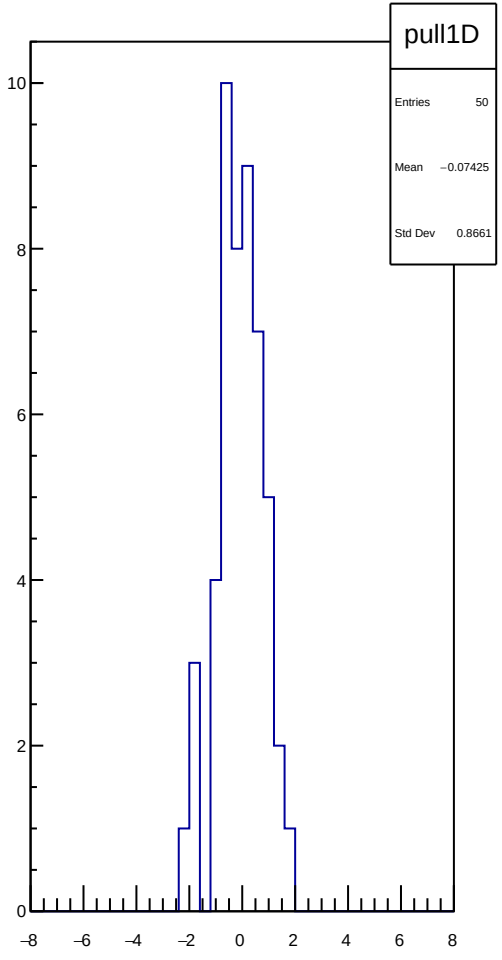
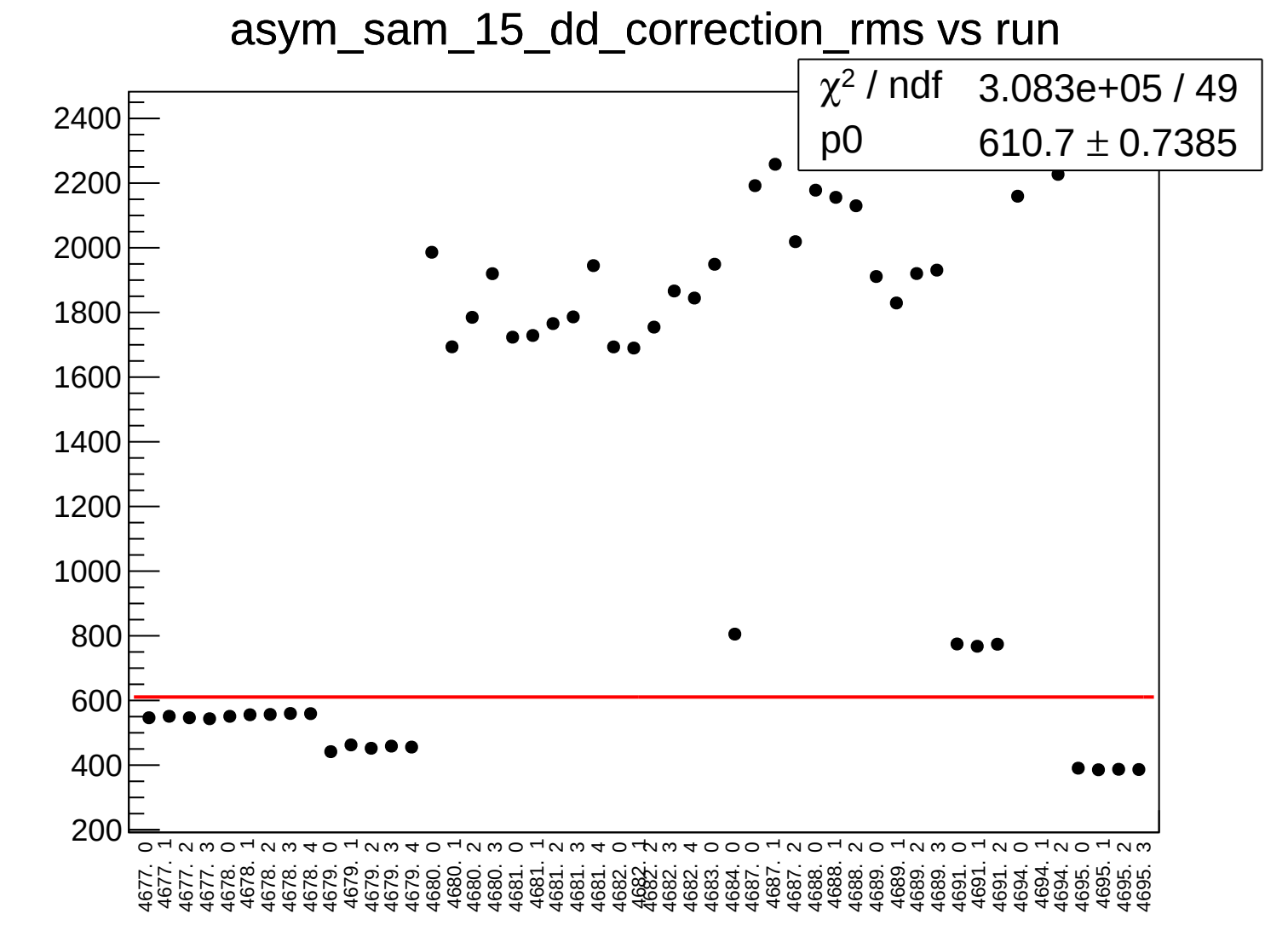
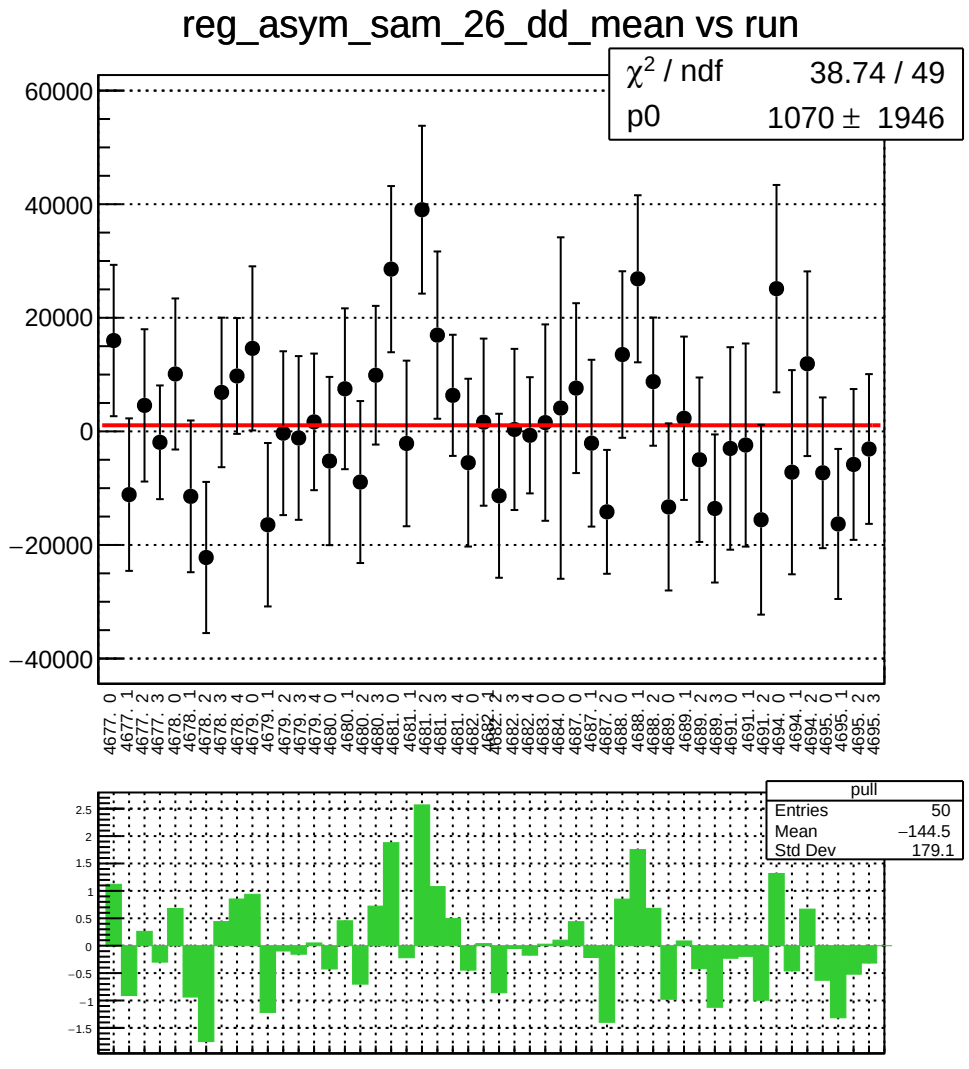
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


asym_sam_15_dd_correction_mean vs run
χ² / ndf 37.78 / 49
p0 −883.3 ± 1044
60000
40000
20000
0
−20000
−40000
−60000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 8.974
Std Dev 18.36
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean −0.07425
Std Dev 0.8661
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 3.083e+05 / 49
p0 610.7 ± 0.7385
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3


reg_asym_sam_26_dd_mean vs run
χ² / ndf 38.74 / 49
p0 1070 ± 1946
60000
40000
20000
0
−20000
−40000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
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4681. 4
4682. 0
4682. 1
4682. 2
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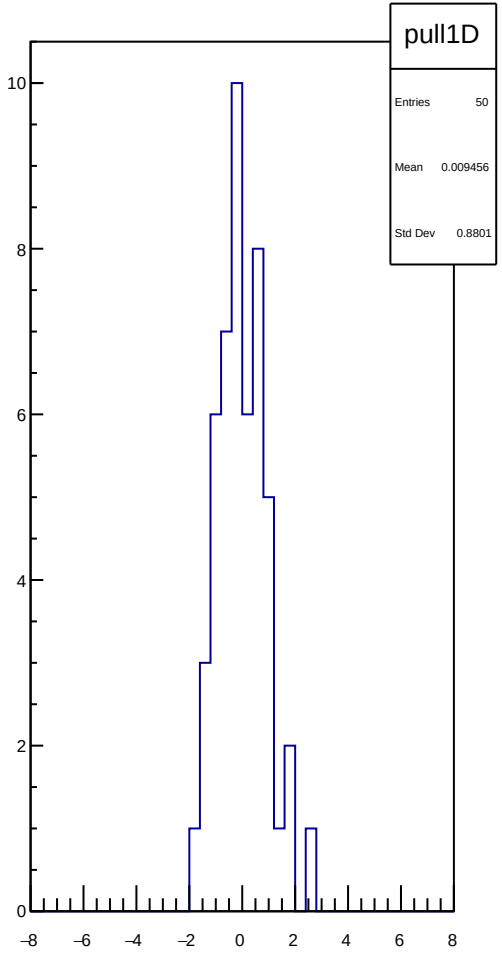
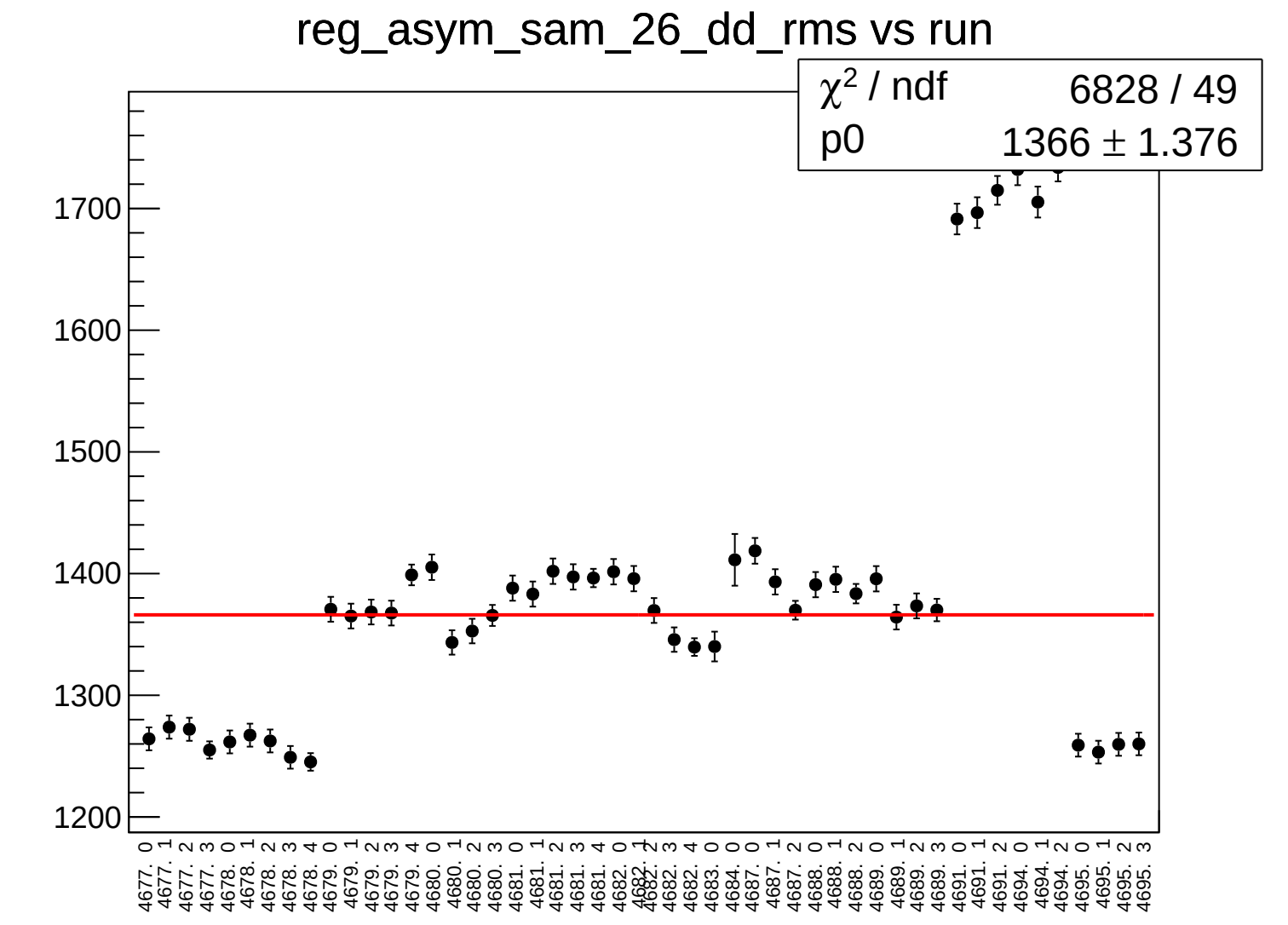
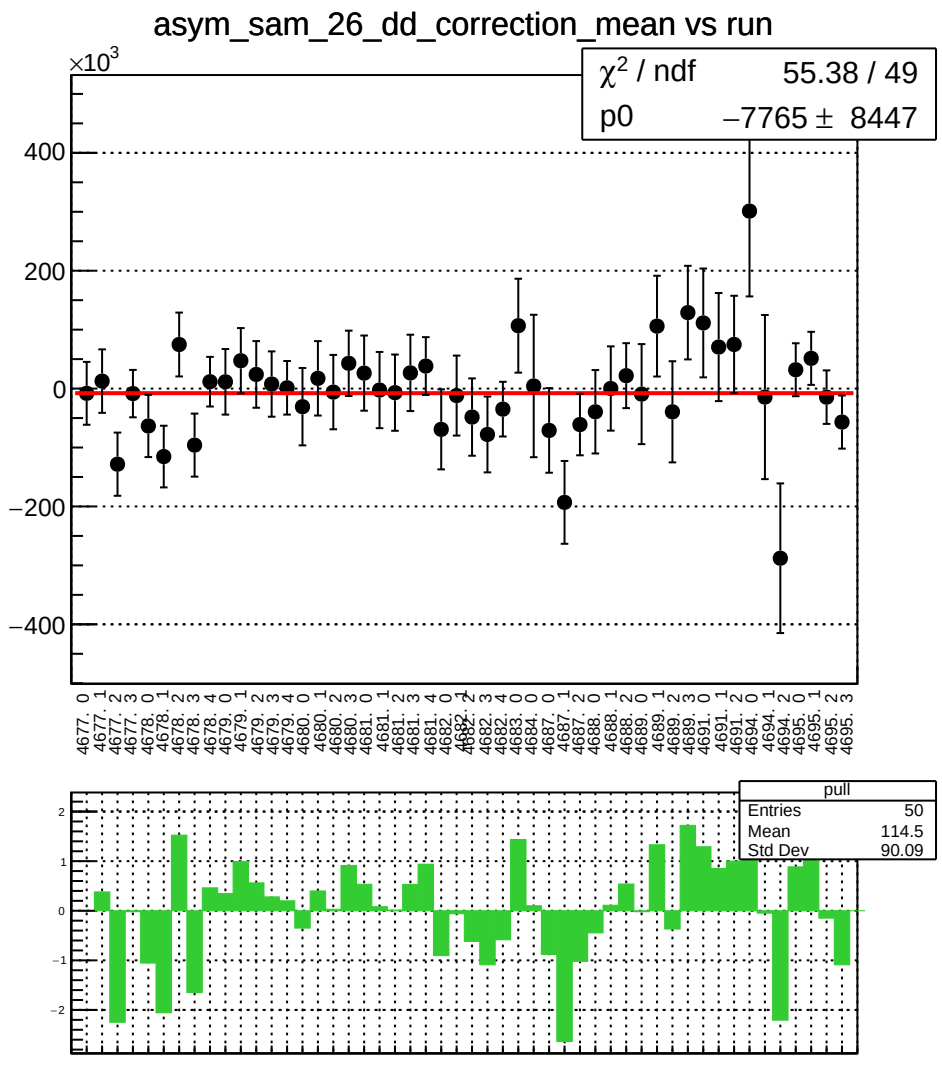
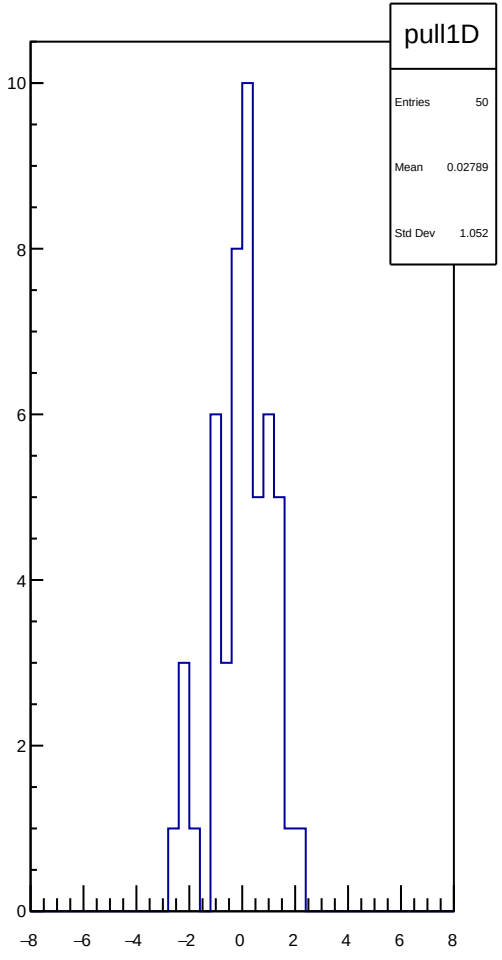
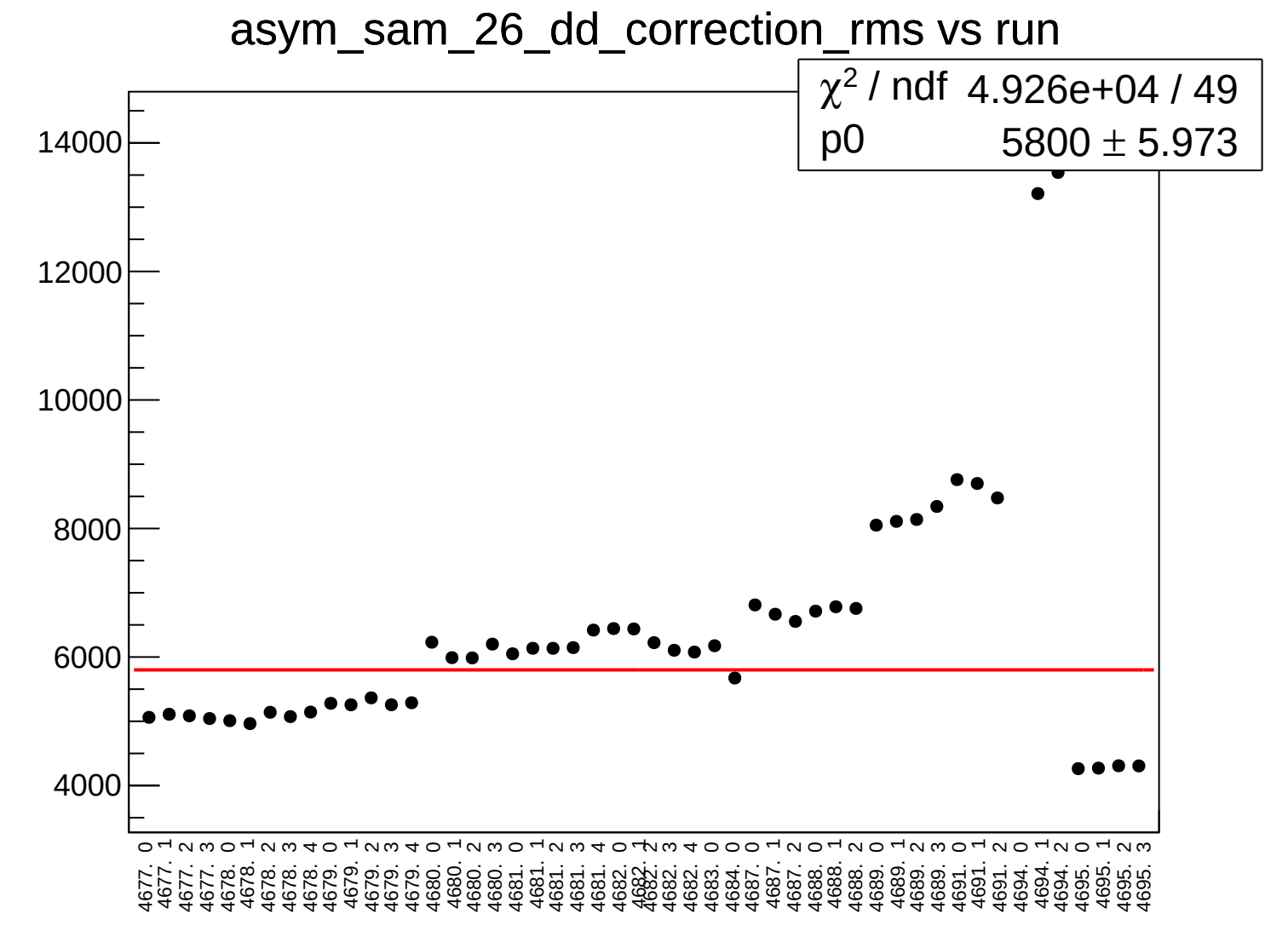
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean −144.5
Std Dev 179.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

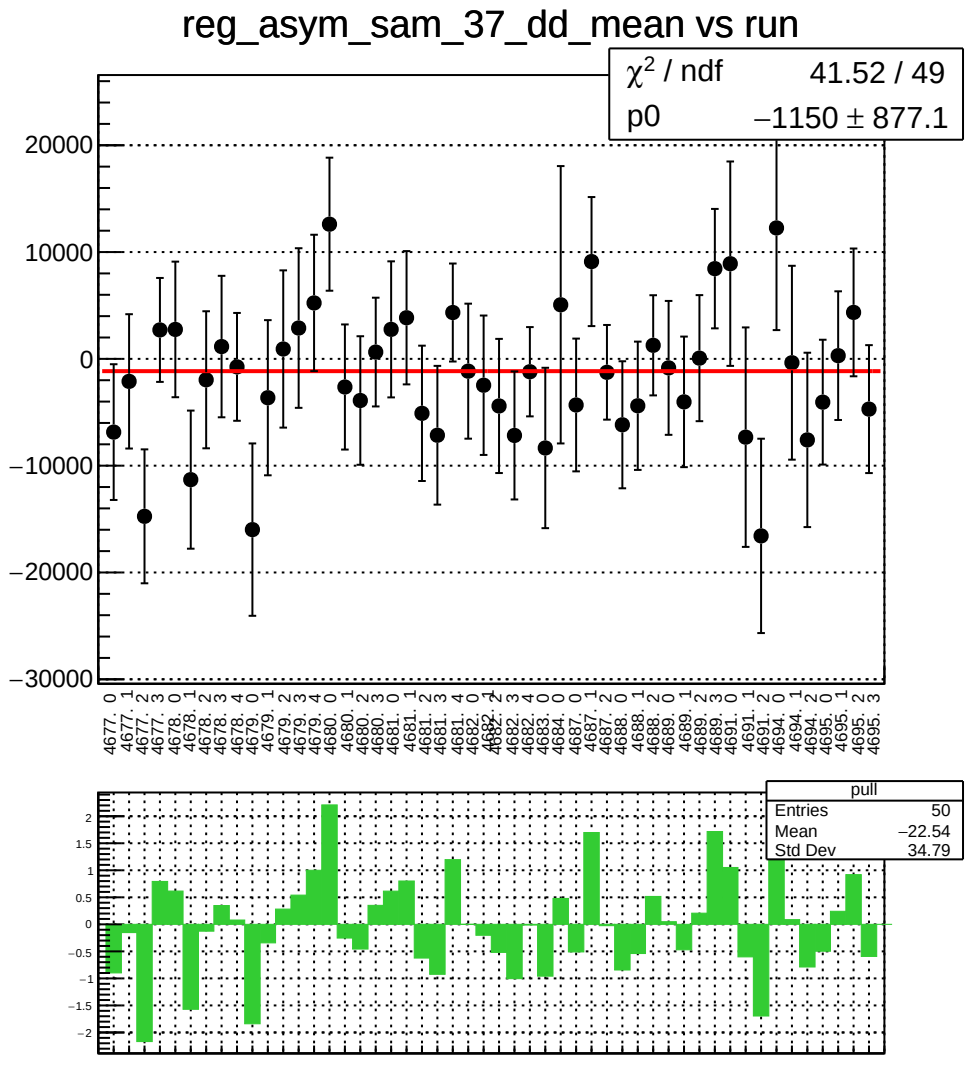

pull1D
Entries 50
Mean 0.009456
Std Dev 0.8801
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

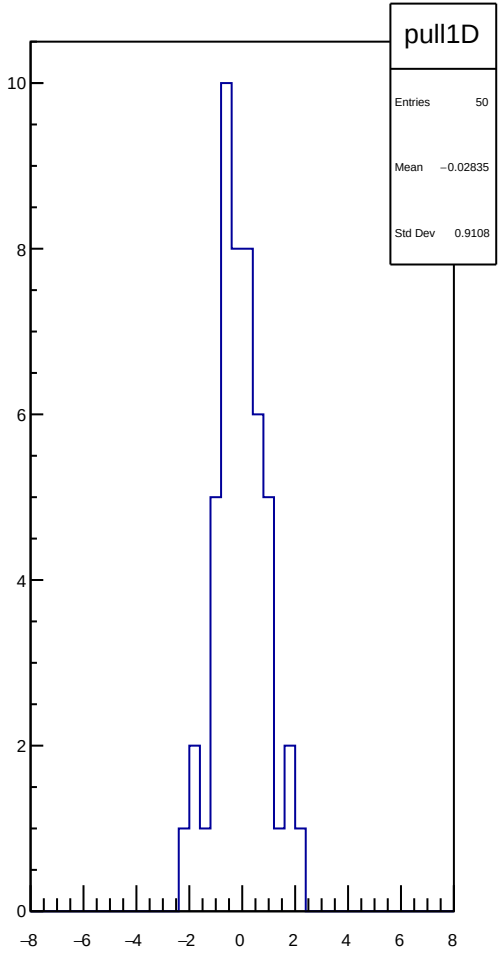

reg_asym_sam_26_dd_rms vs run
χ² / ndf 6828 / 49
p0 1366 ± 1.376
1700
1600
1500
1400
1300
1200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

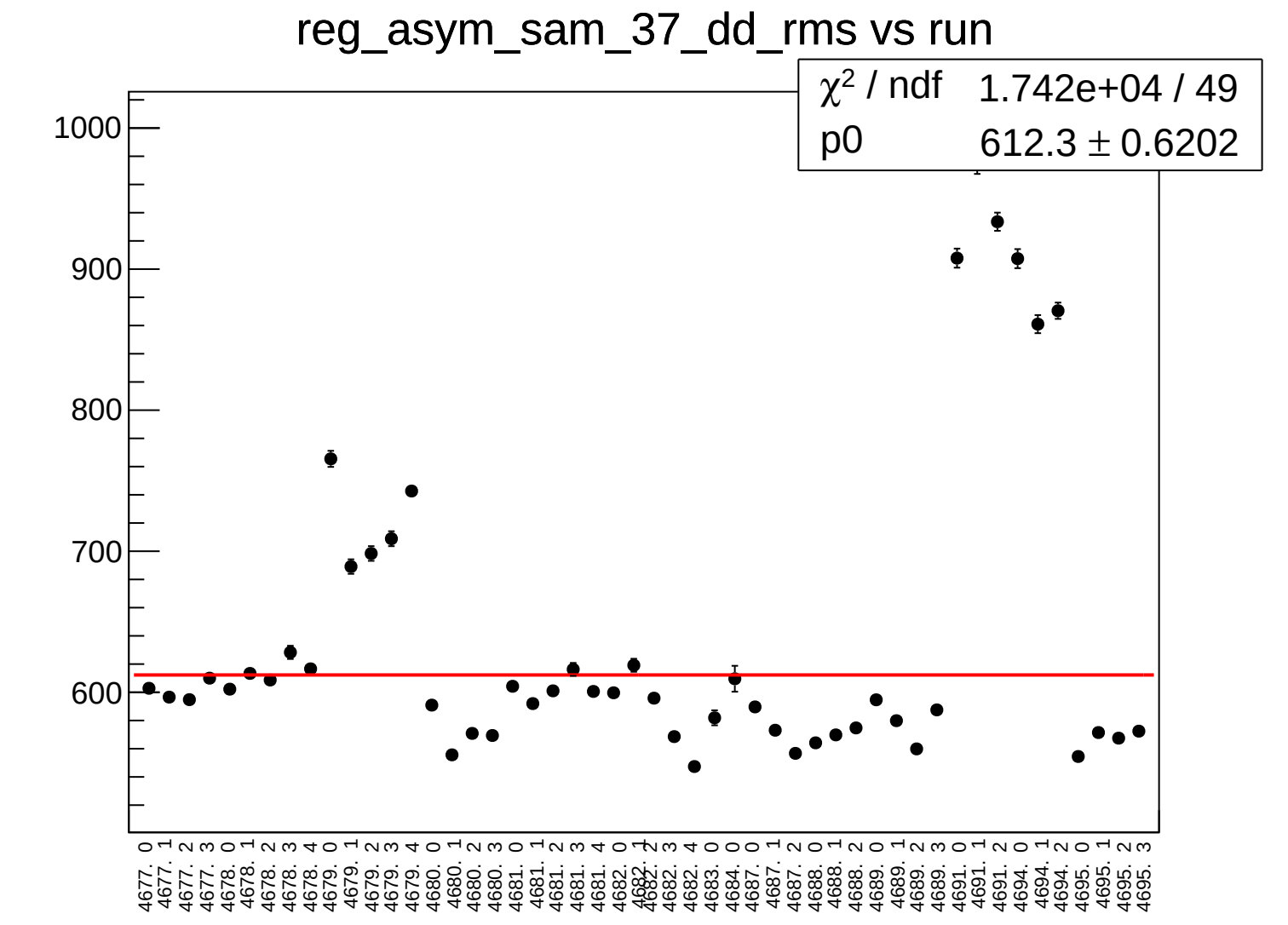

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 55.38 / 49
p0 −7765 ± 8447
400
200
0
−200
−400
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 114.5
Std Dev 90.09
2
1
0
−1
−2

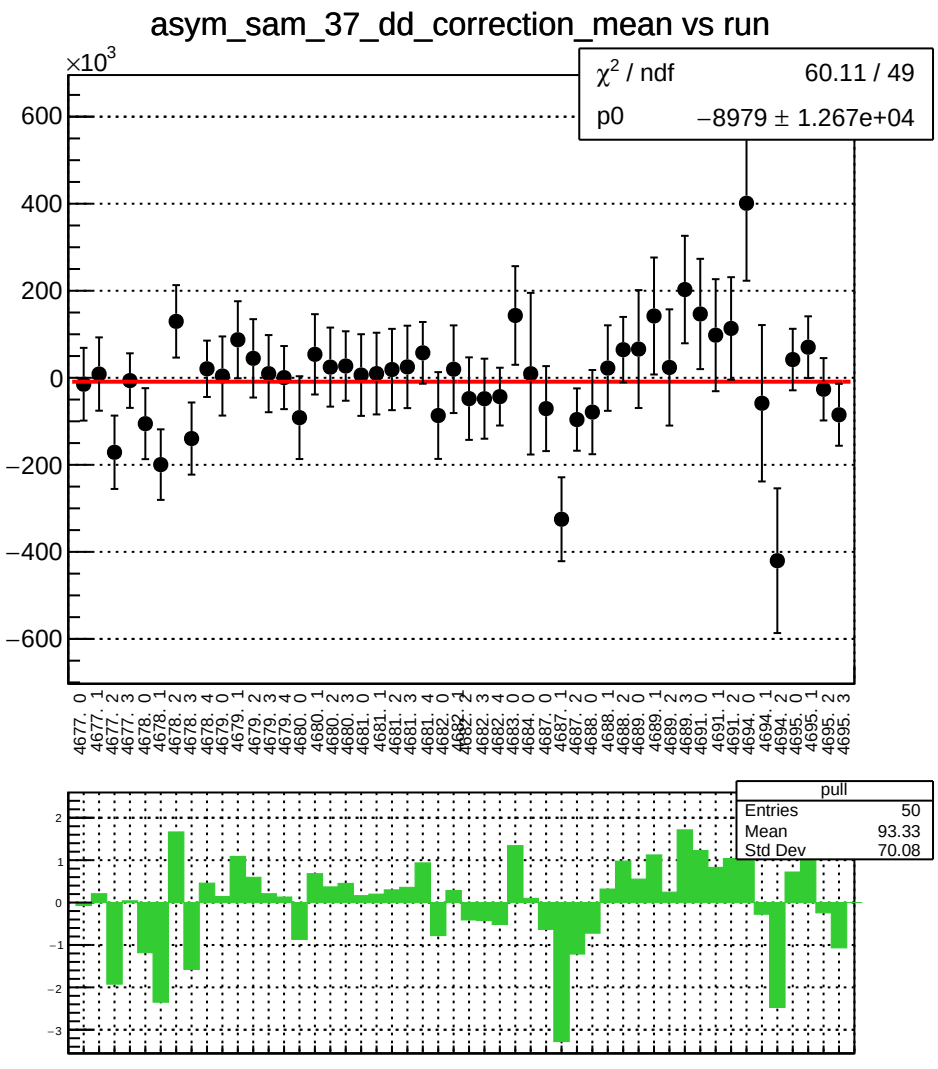

pull1D
Entries 50
Mean 0.02789
Std Dev 1.052
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

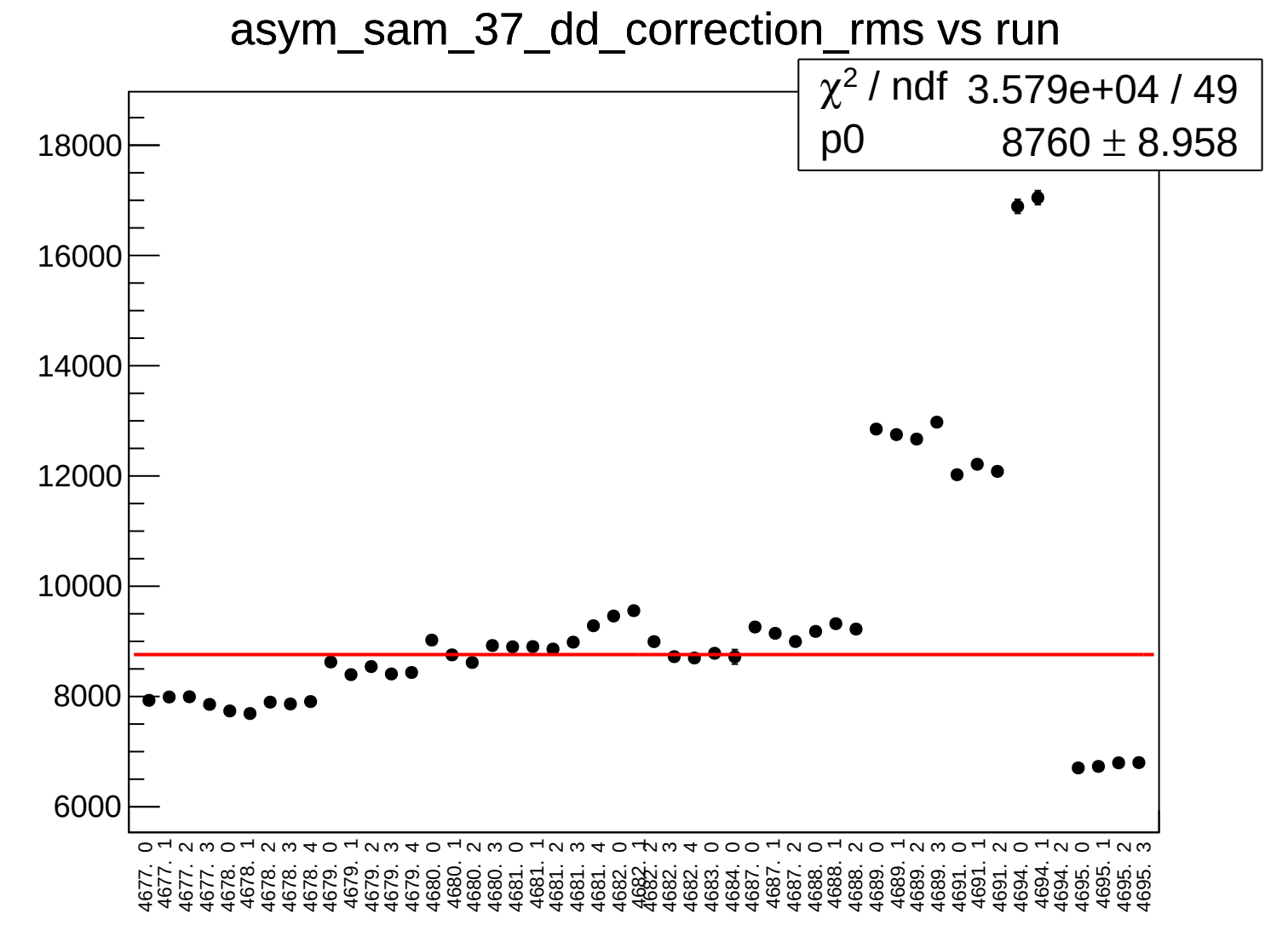

asym_sam_26_dd_correction_rms vs run
χ² / ndf 4.926e+04 / 49
p0 5800 ± 5.973
14000
12000
10000
8000
6000
4000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

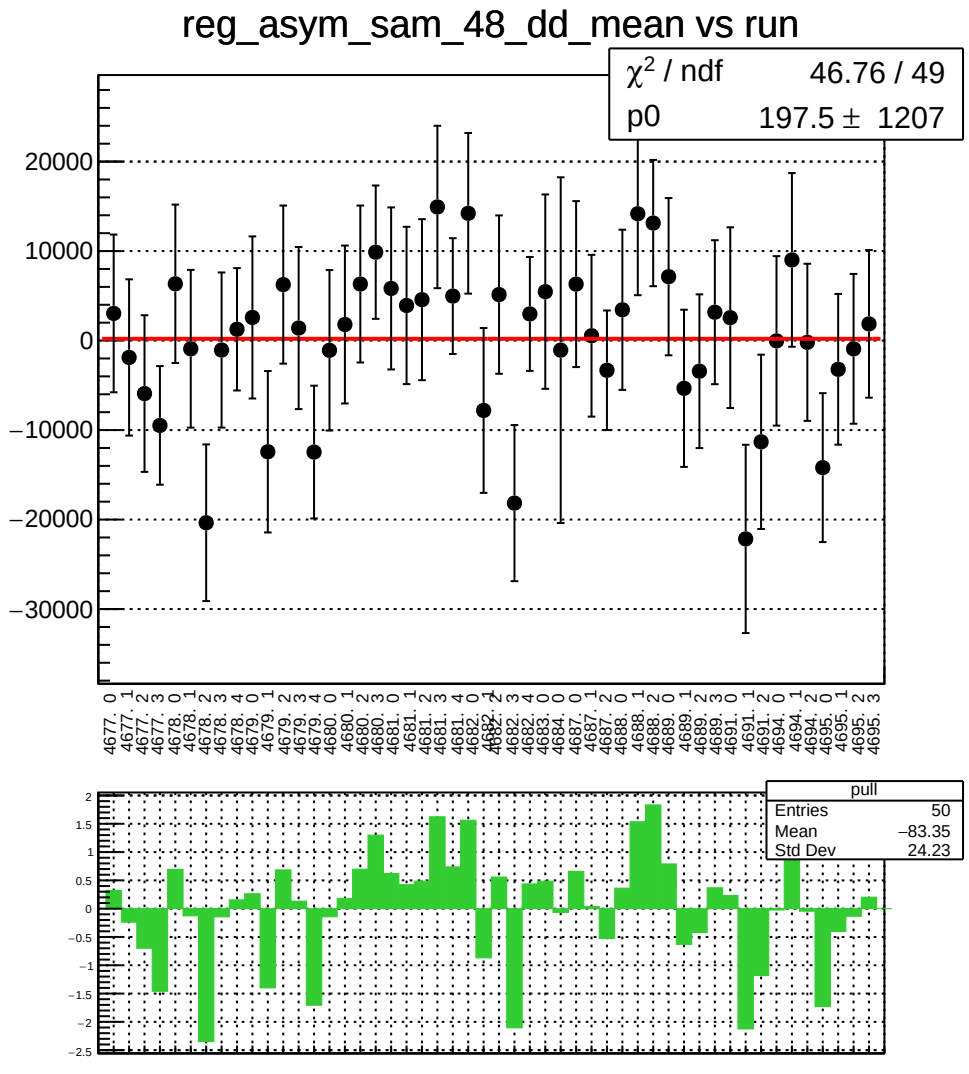

reg_asym_sam_37_dd_mean vs run
χ² / ndf 41.52 / 49
p0 −1150 ± 877.1
pull
Entries 50
Mean −22.54
Std Dev 34.79

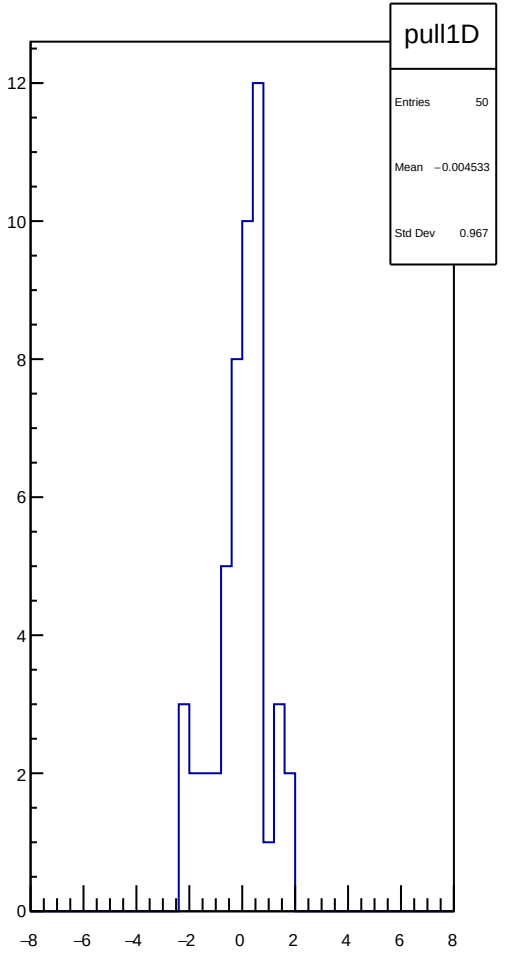

pull1D
Entries 50
Mean −0.02835
Std Dev 0.9108

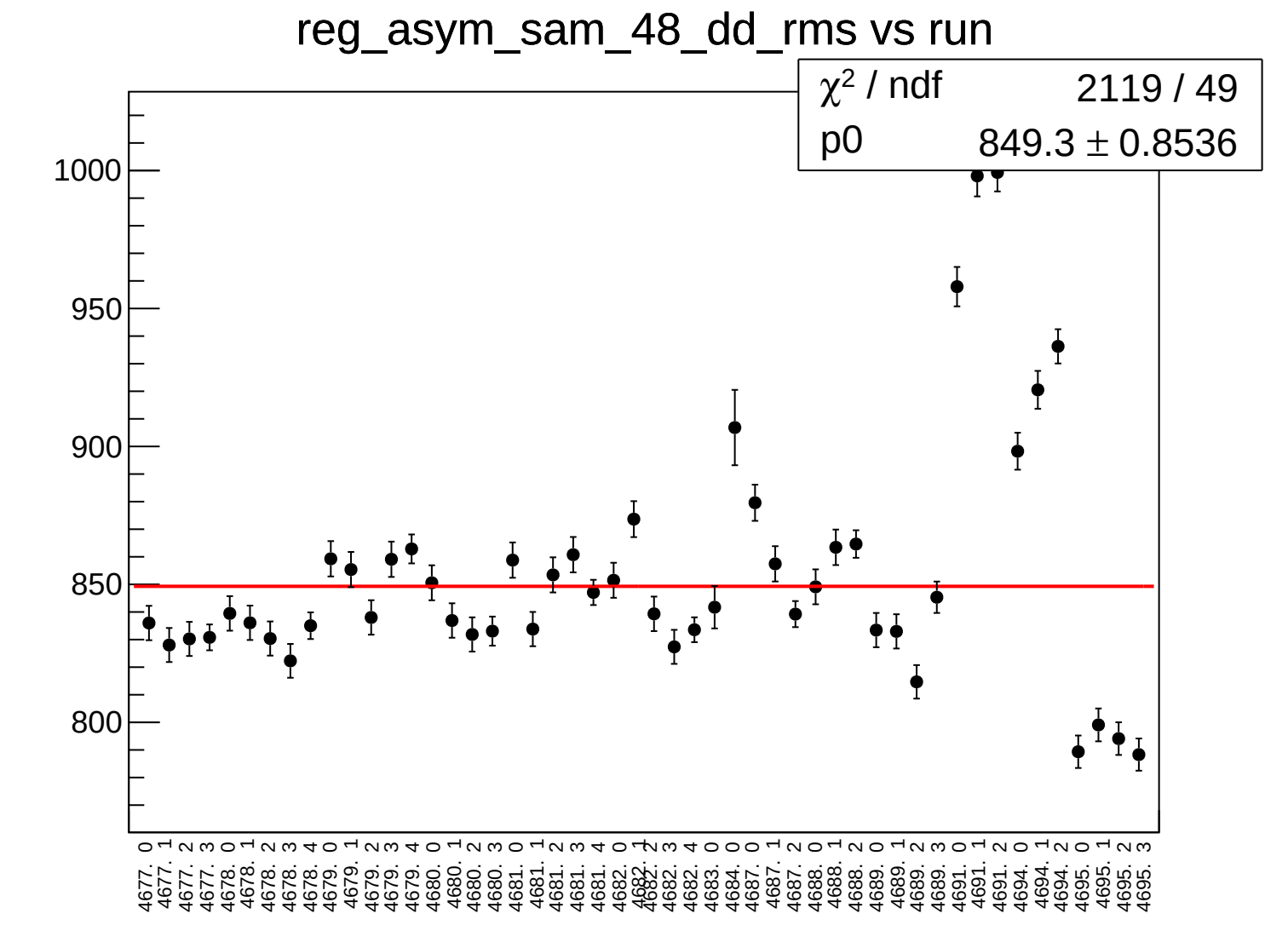

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.742e+04 / 49
p0 612.3 ± 0.6202
1000
900
800
700
600
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

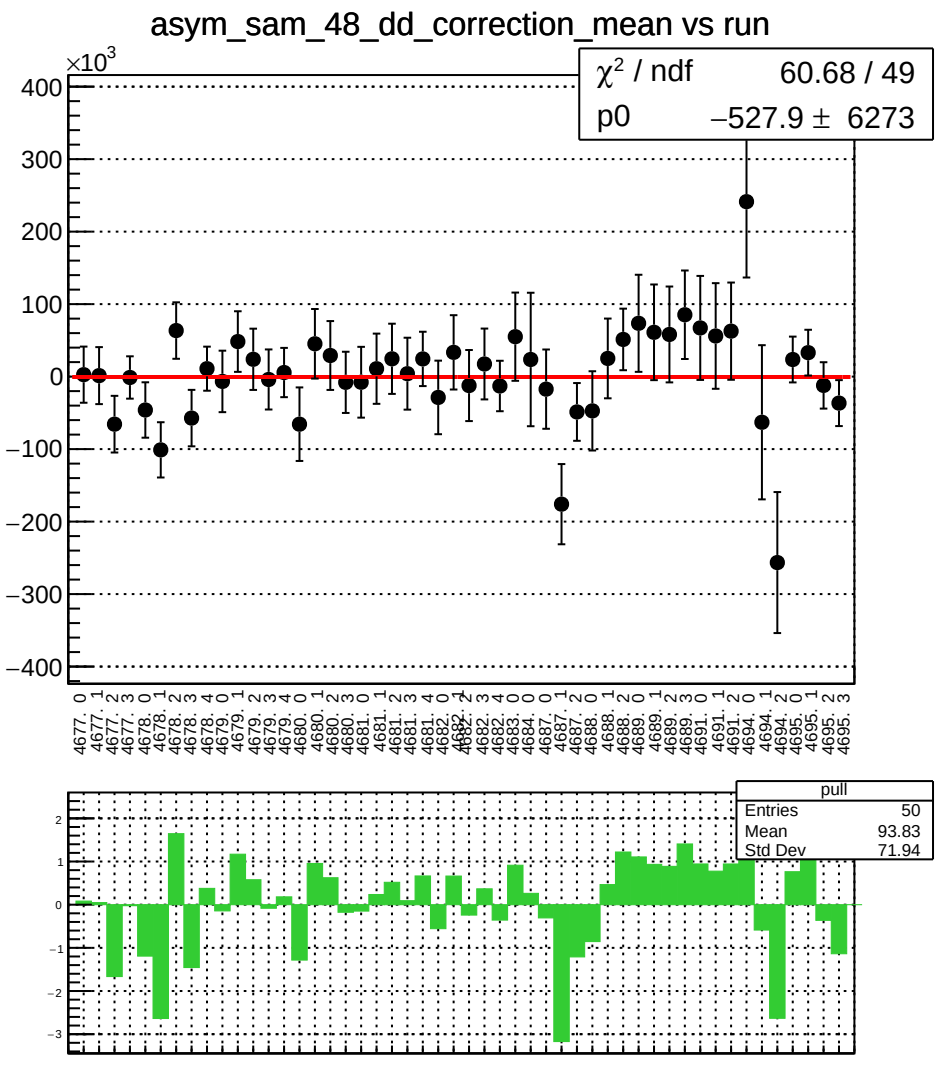

asym_sam_37_dd_correction_mean vs run
×10^3
χ² / ndf 60.11 / 49
p0 −8979 ± 1.267e+04
600
400
200
0
−200
−400
−600
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 93.33
Std Dev 70.08
2
1
0
−1
−2
−3
pull1D
Entries 50
Mean 0.03788
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

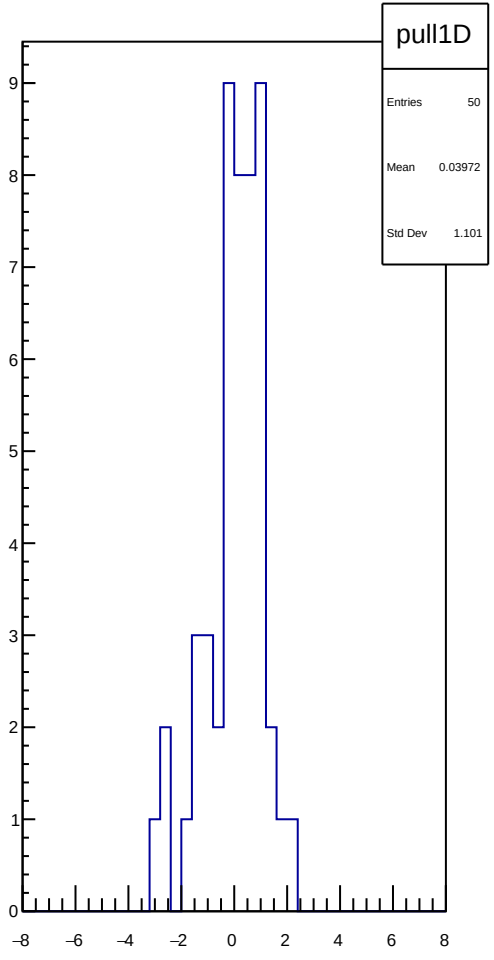

asym_sam_37_dd_correction_rms vs run
χ² / ndf 3.579e+04 / 49
p0 8760 ± 8.958
18000
16000
14000
12000
10000
8000
6000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

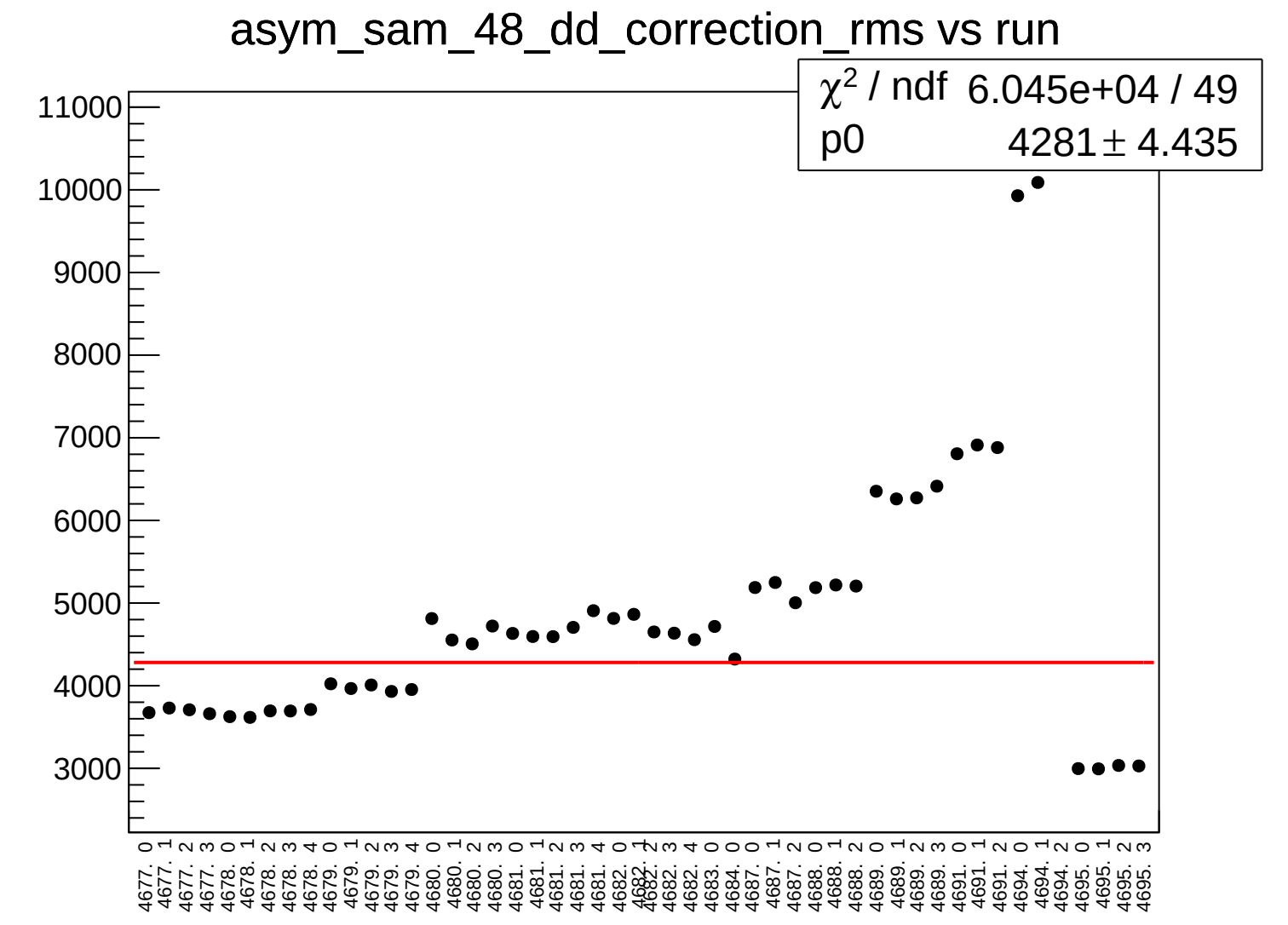

reg_asym_sam_48_dd_mean vs run
χ² / ndf 46.76 / 49
p0 197.5 ± 1207
20000
10000
0
−10000
−20000
−30000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean −83.35
Std Dev 24.23
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

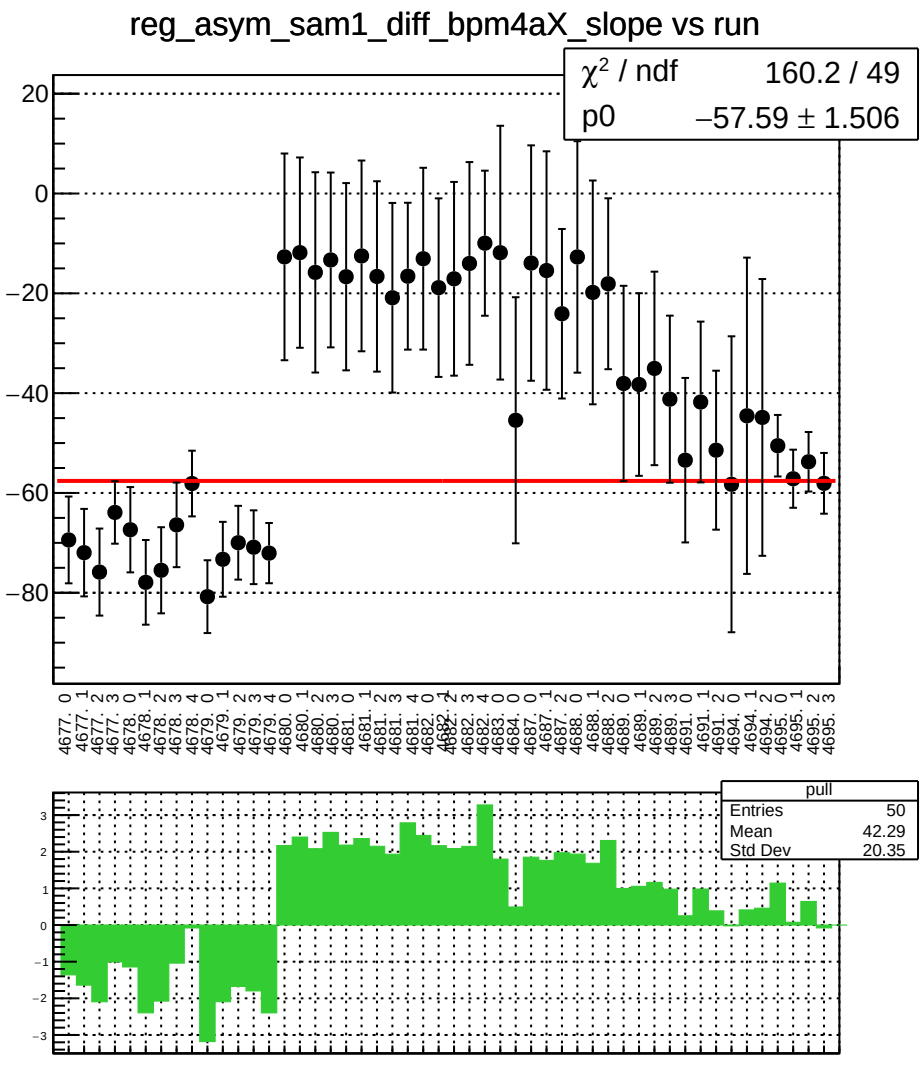

pull1D
Entries 50
Mean −0.004533
Std Dev 0.967
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

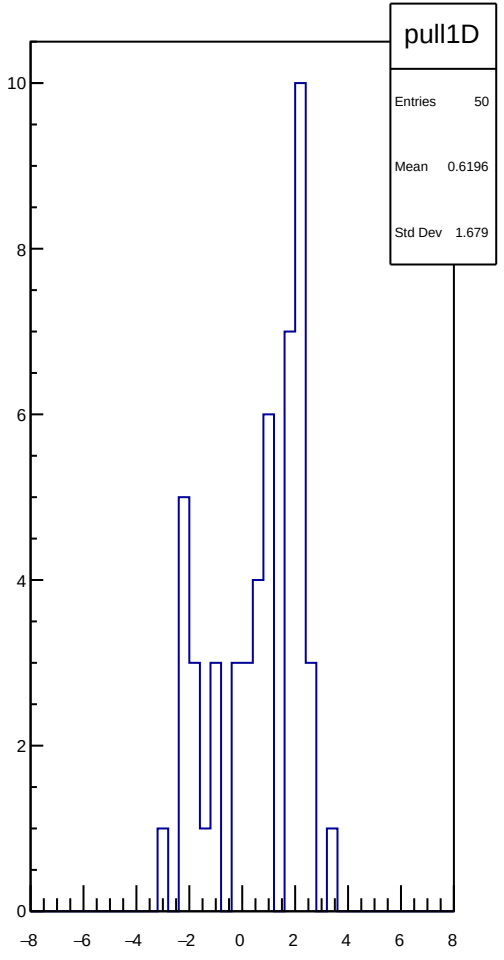

reg_asym_sam_48_dd_rms vs run
χ² / ndf 2119 / 49
p0 849.3 ± 0.8536
1000
950
900
850
800
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

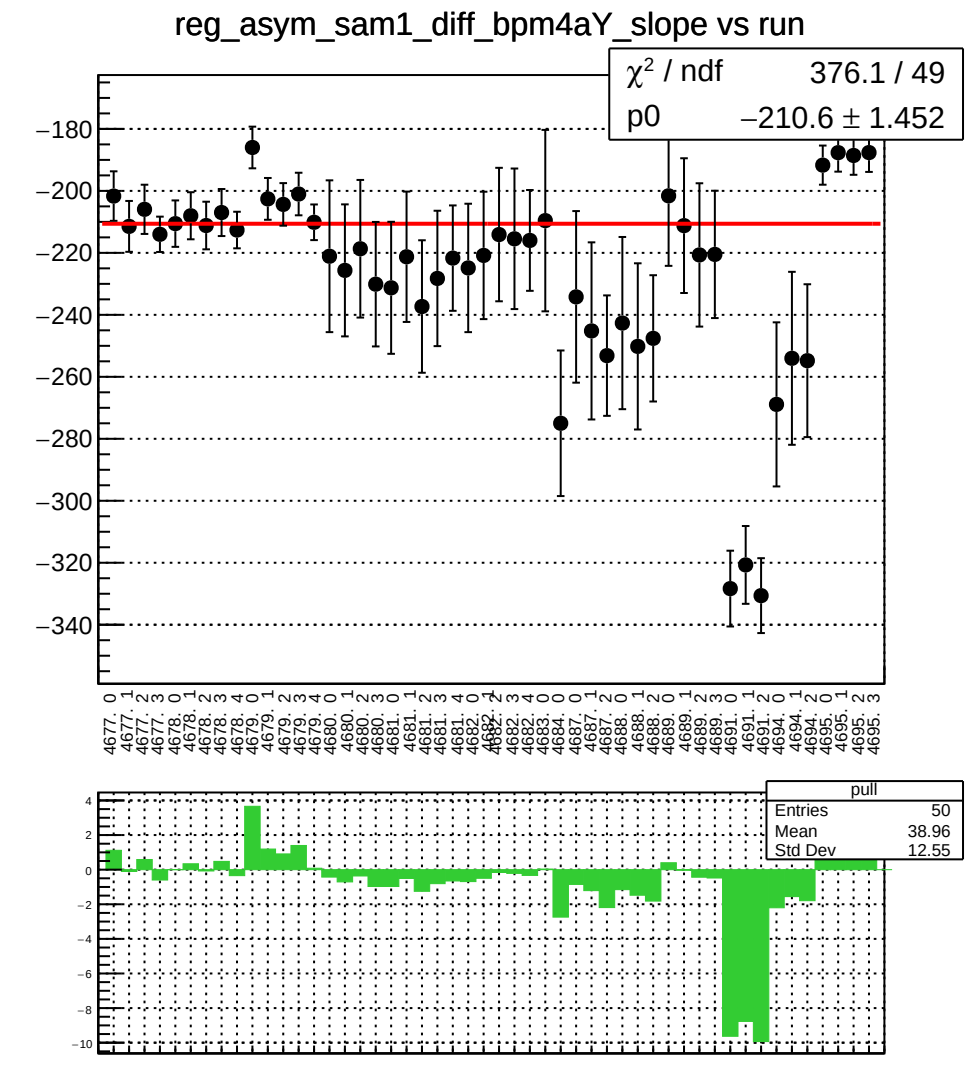

asym_sam_48_dd_correction_mean vs run
×10^3
χ² / ndf 60.68 / 49
p0 −527.9 ± 6273
pull
Entries 50
Mean 93.83
Std Dev 71.94

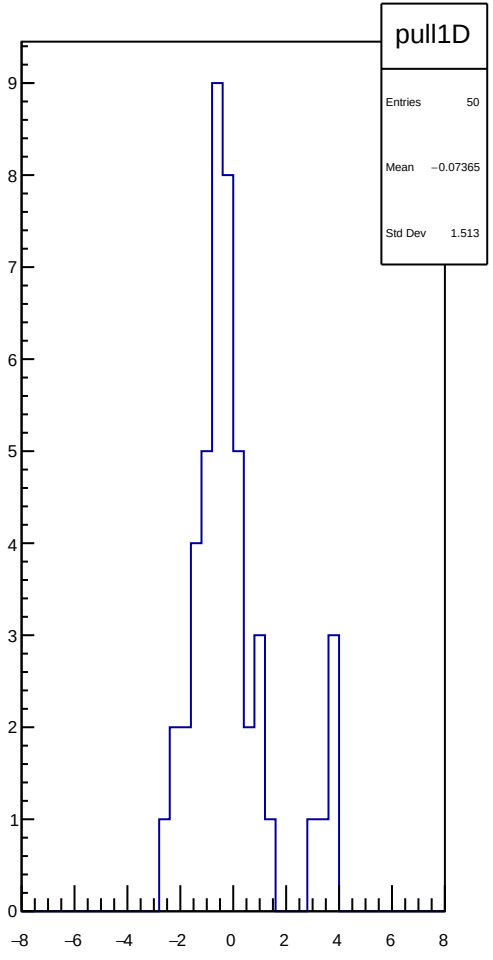

pull1D
Entries 50
Mean 0.03972
Std Dev 1.101

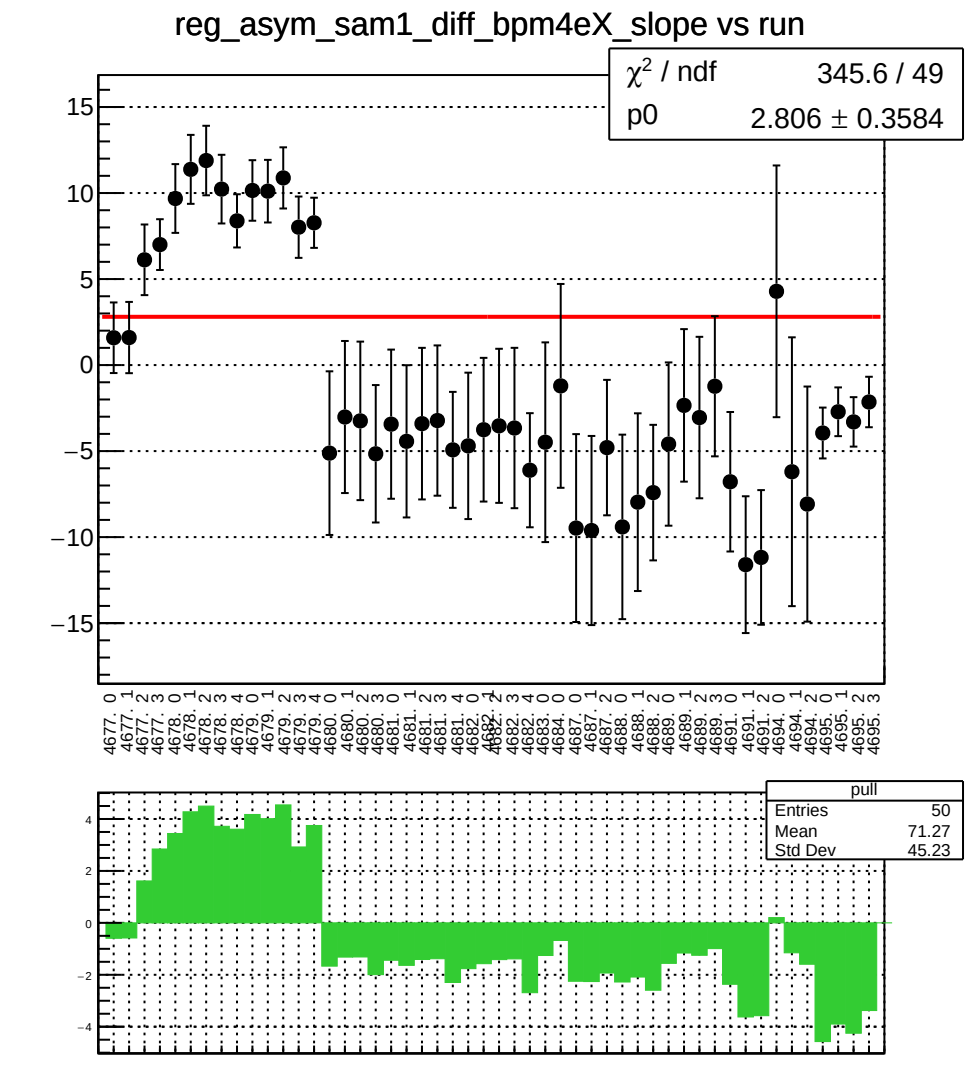

asym_sam_48_dd_correction_rms vs run
χ² / ndf 6.045e+04 / 49
p0 4281 ± 4.435
11000
10000
9000
8000
7000
6000
5000
4000
3000
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3

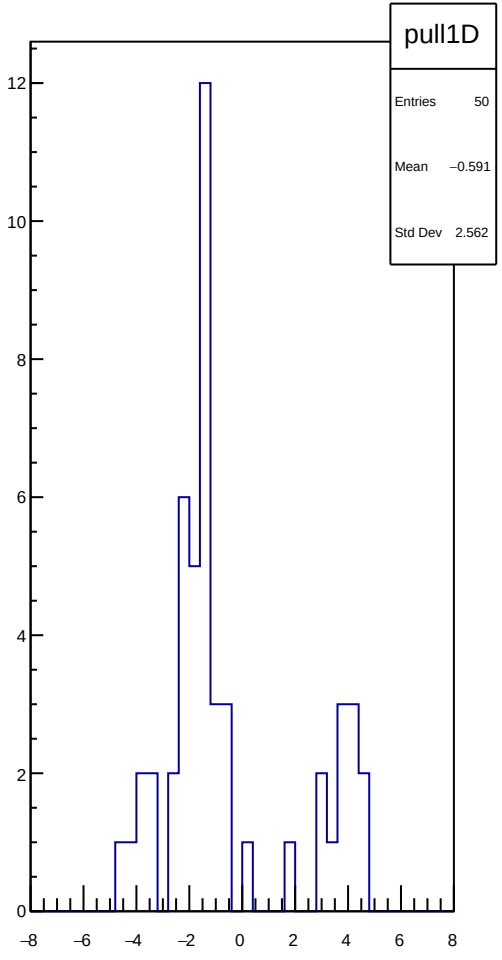

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 160.2 / 49
p0 −57.59 ± 1.506
pull
Entries 50
Mean 42.29
Std Dev 20.35

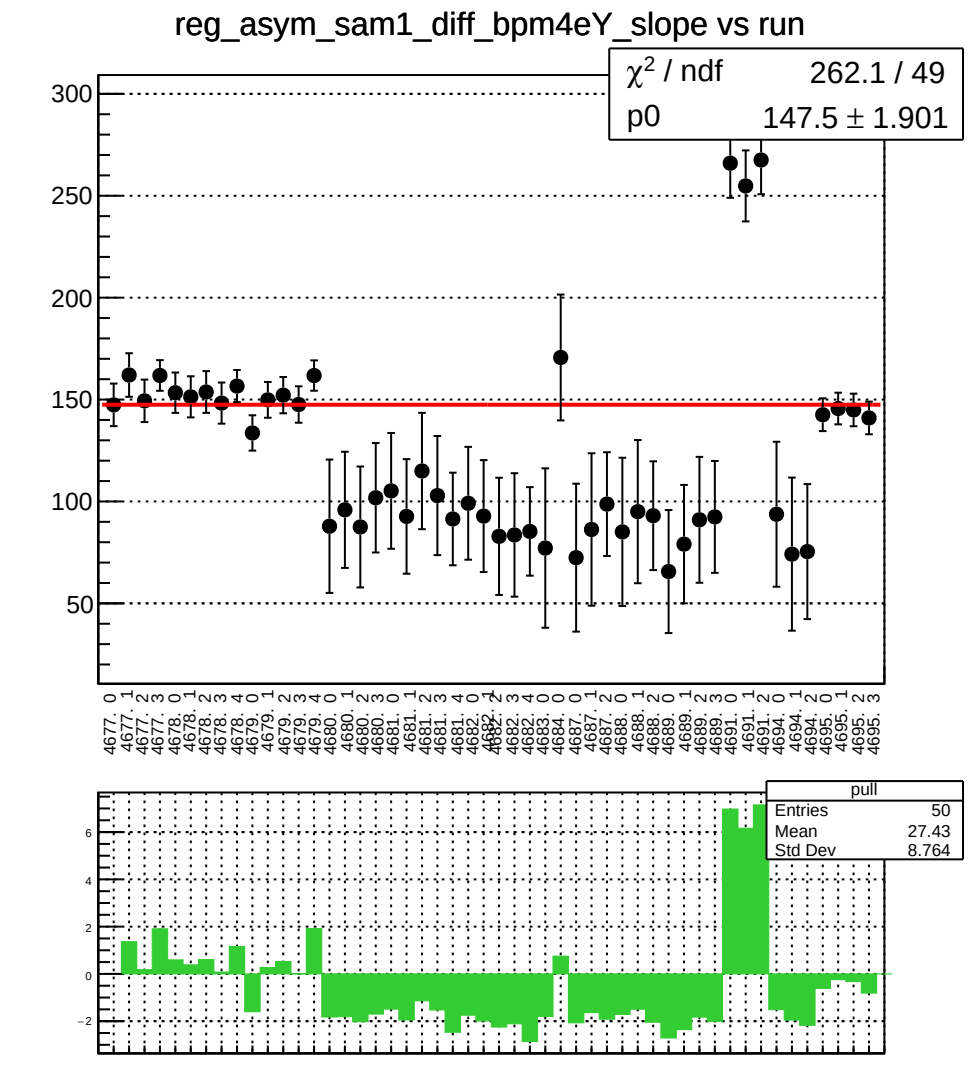

pull1D
Entries 50
Mean 0.6196
Std Dev 1.679

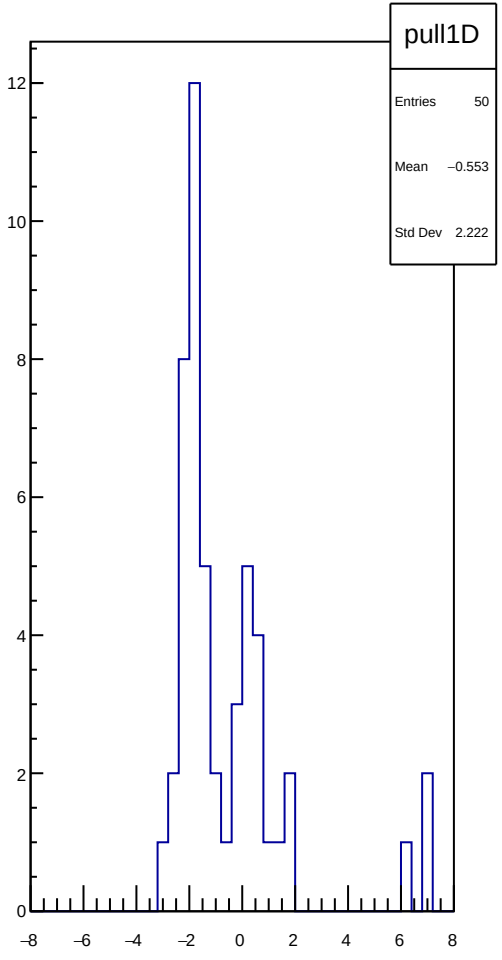

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 376.1 / 49
p0 −210.6 ± 1.452
pull
Entries 50
Mean 38.96
Std Dev 12.55

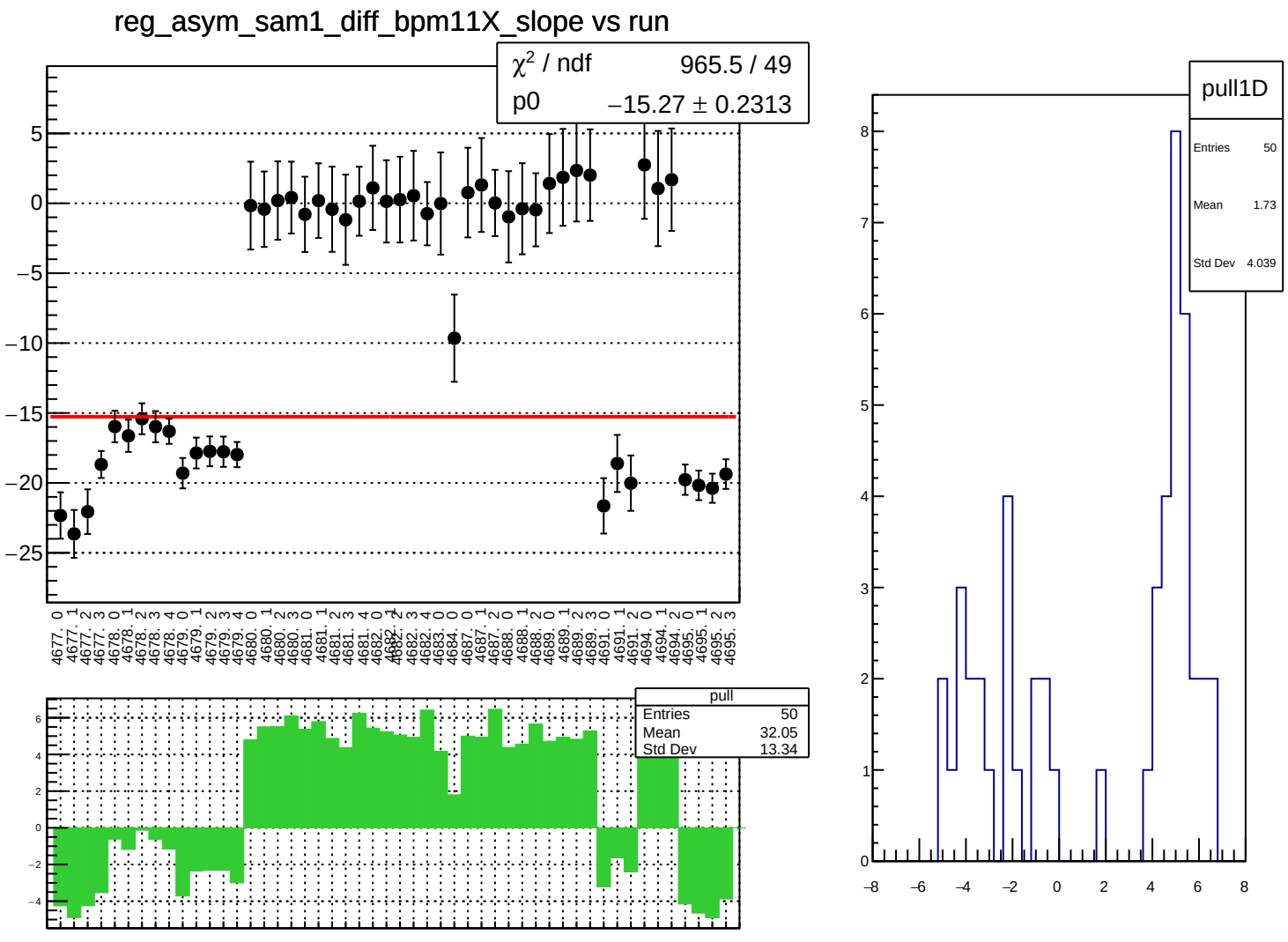

pull1D
Entries 50
Mean −0.07365
Std Dev 1.513

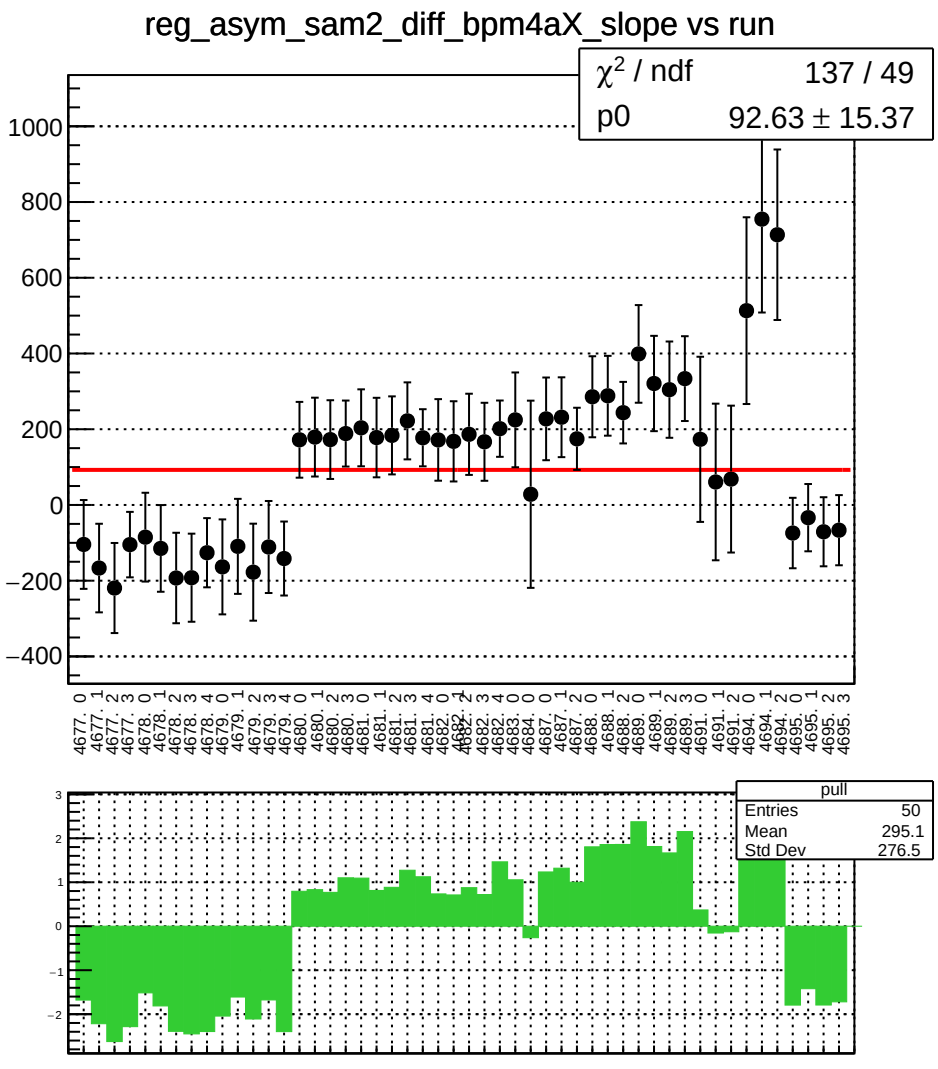

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 345.6 / 49
p0 2.806 ± 0.3584
pull
Entries 50
Mean 71.27
Std Dev 45.23

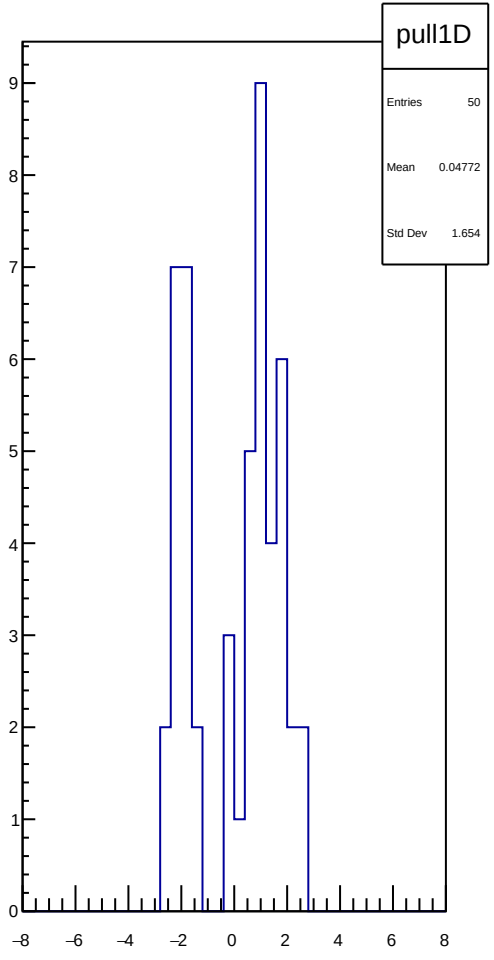

pull1D
Entries 50
Mean −0.591
Std Dev 2.562

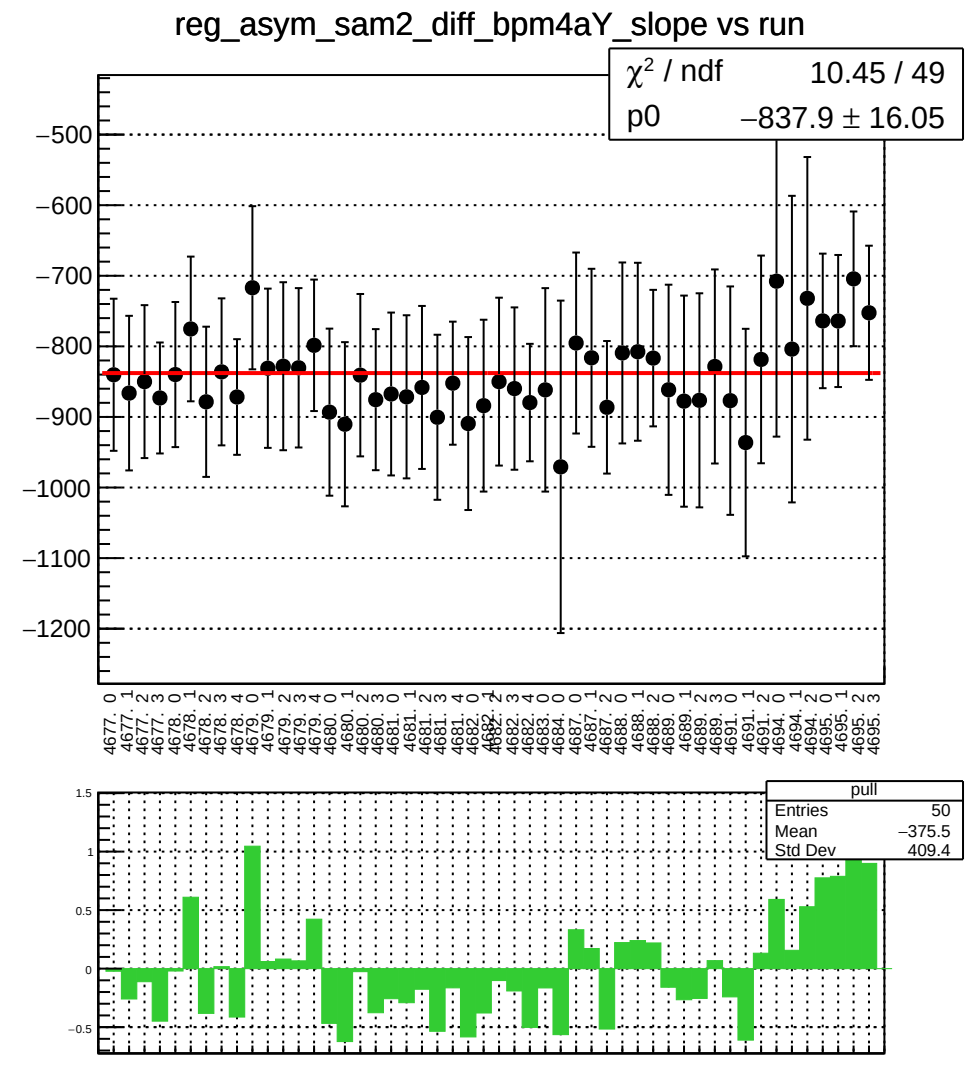

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 262.1 / 49
p0 147.5 ± 1.901
300
250
200
150
100
50
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 27.43
Std Dev 8.764
6
4
2
0
−2

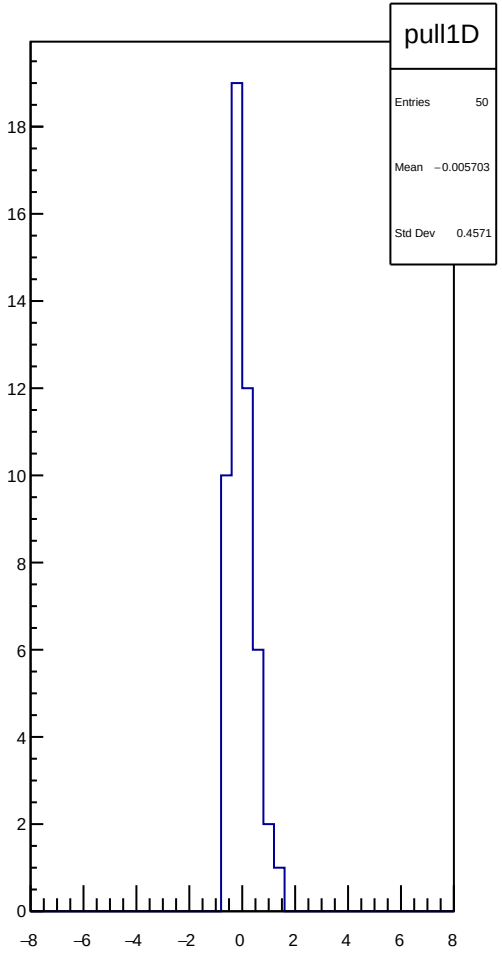

pull1D
Entries 50
Mean −0.553
Std Dev 2.222
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

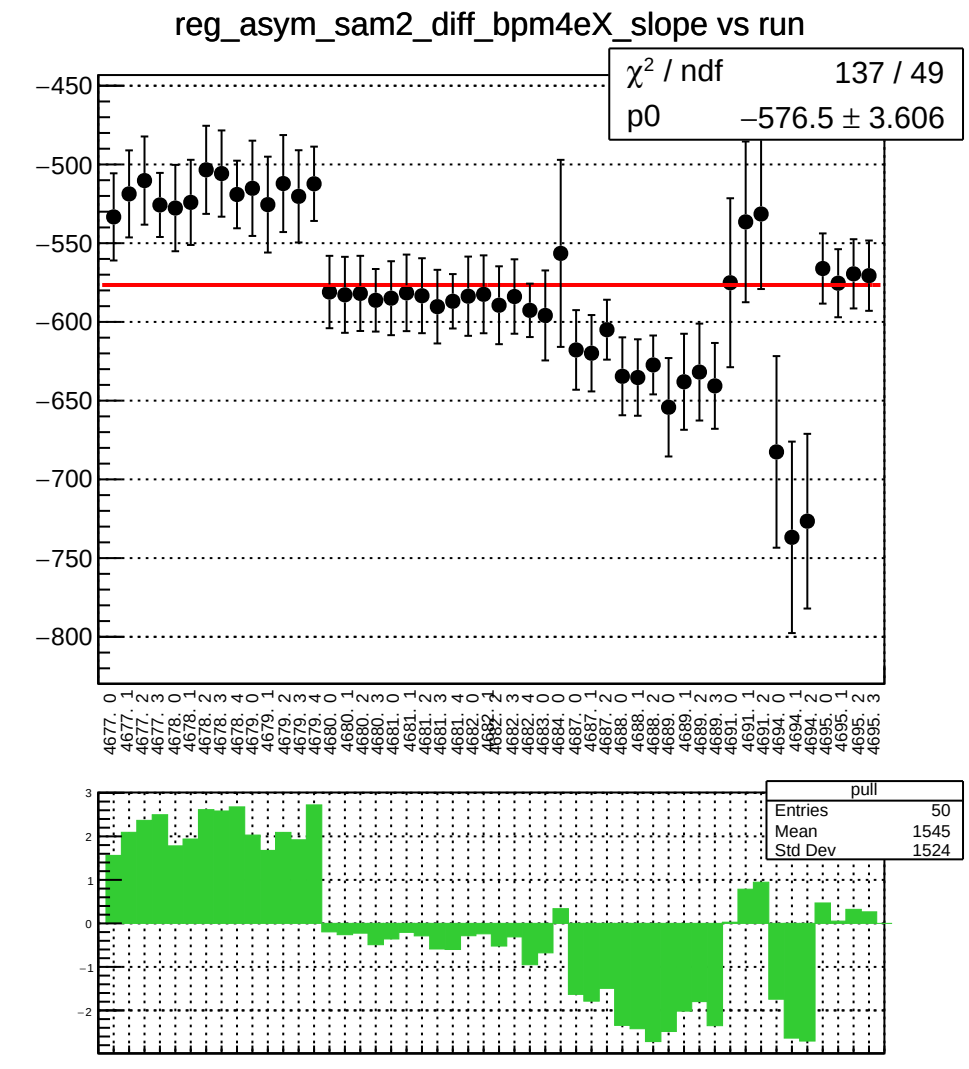

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 965.5 / 49
p0 −15.27 ± 0.2313
pull
Entries 50
Mean 32.05
Std Dev 13.34
pull1D
Entries 50
Mean 1.73
Std Dev 4.039

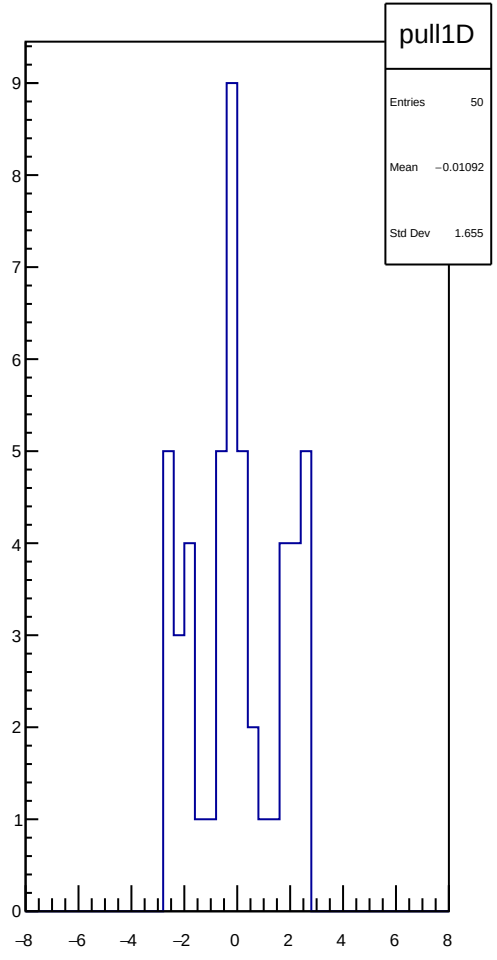

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 137 / 49
p0 92.63 ± 15.37
pull
Entries 50
Mean 295.1
Std Dev 276.5

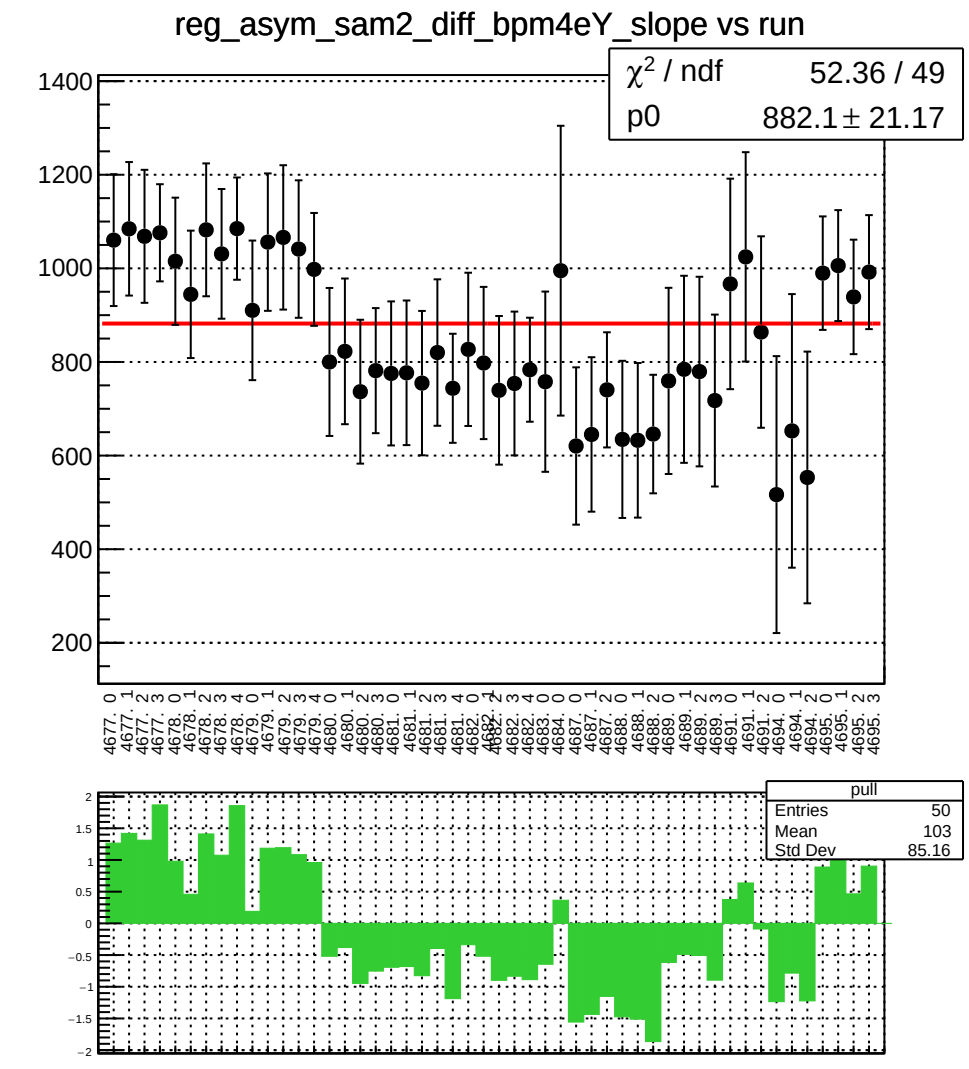

pull1D
Entries 50
Mean 0.04772
Std Dev 1.654

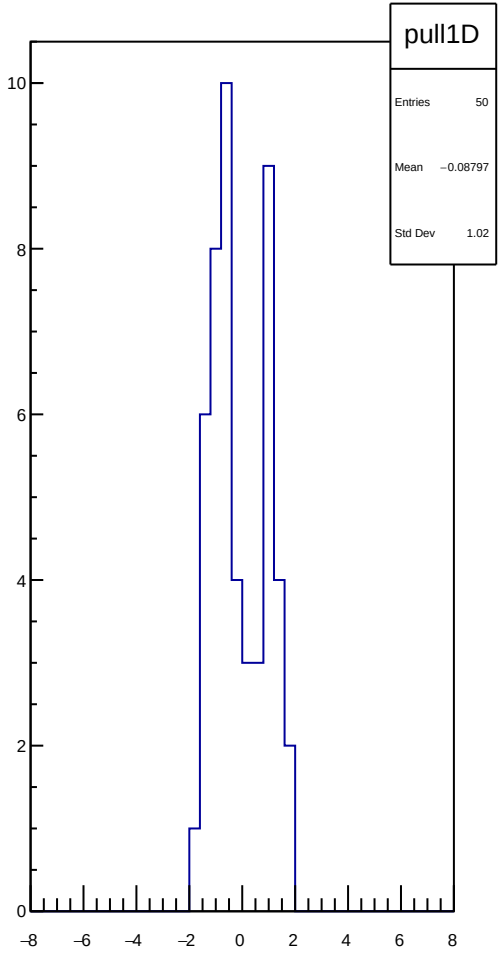

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 10.45 / 49
p0 −837.9 ± 16.05
pull
Entries 50
Mean −375.5
Std Dev 409.4

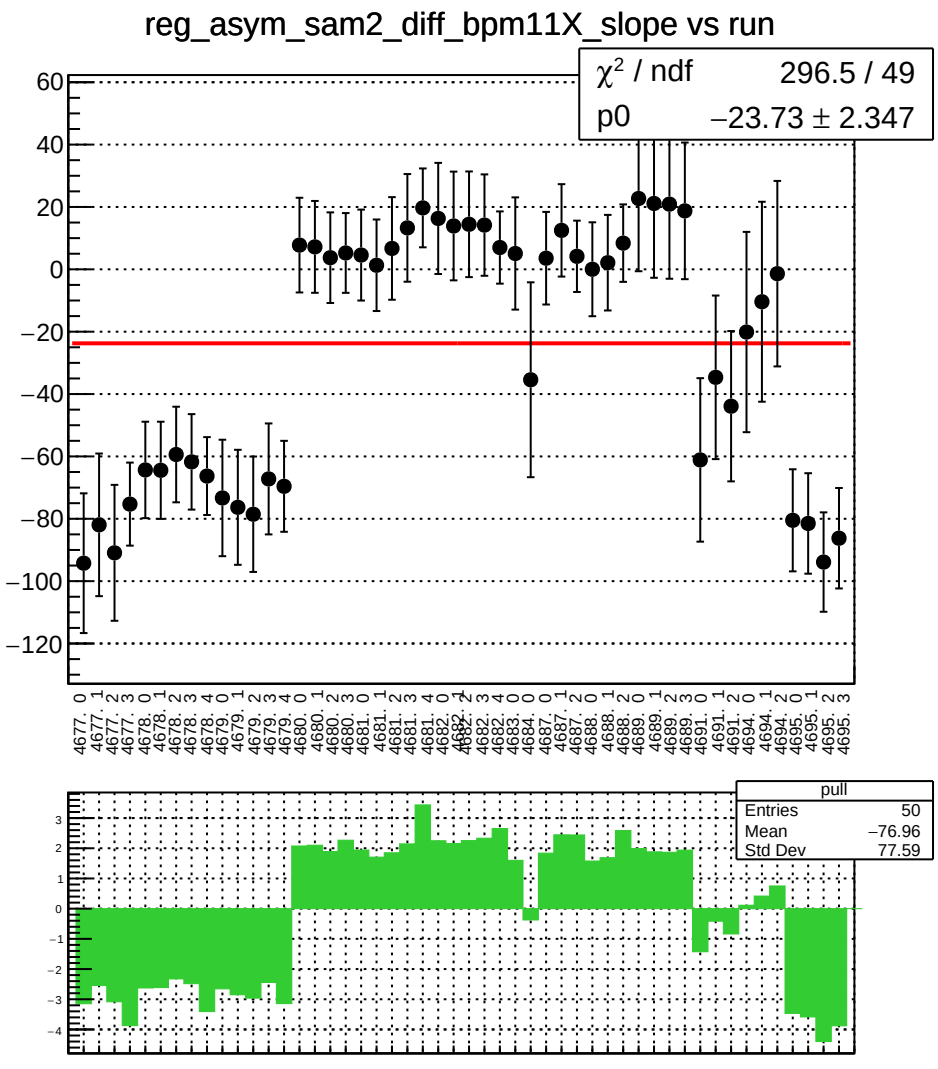

pull1D
Entries 50
Mean −0.005703
Std Dev 0.4571

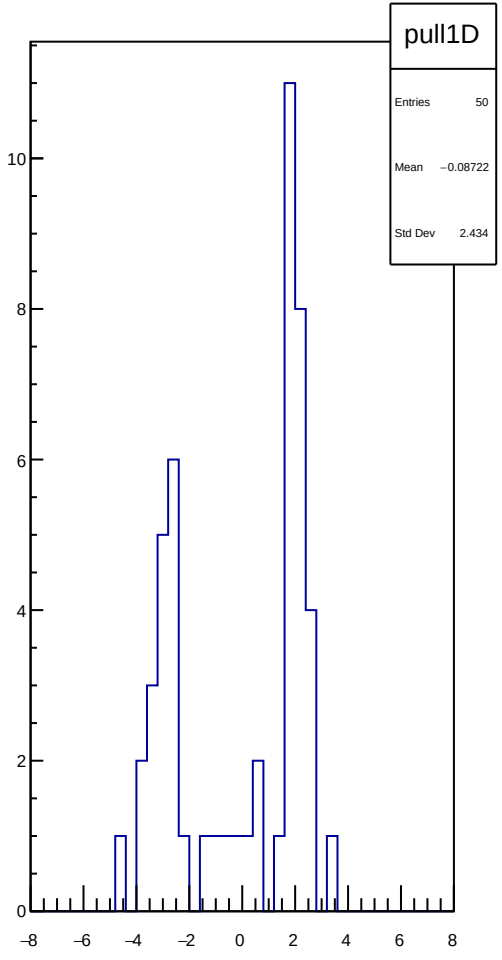

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 137 / 49
p0 −576.5 ± 3.606
pull
Entries 50
Mean 1545
Std Dev 1524

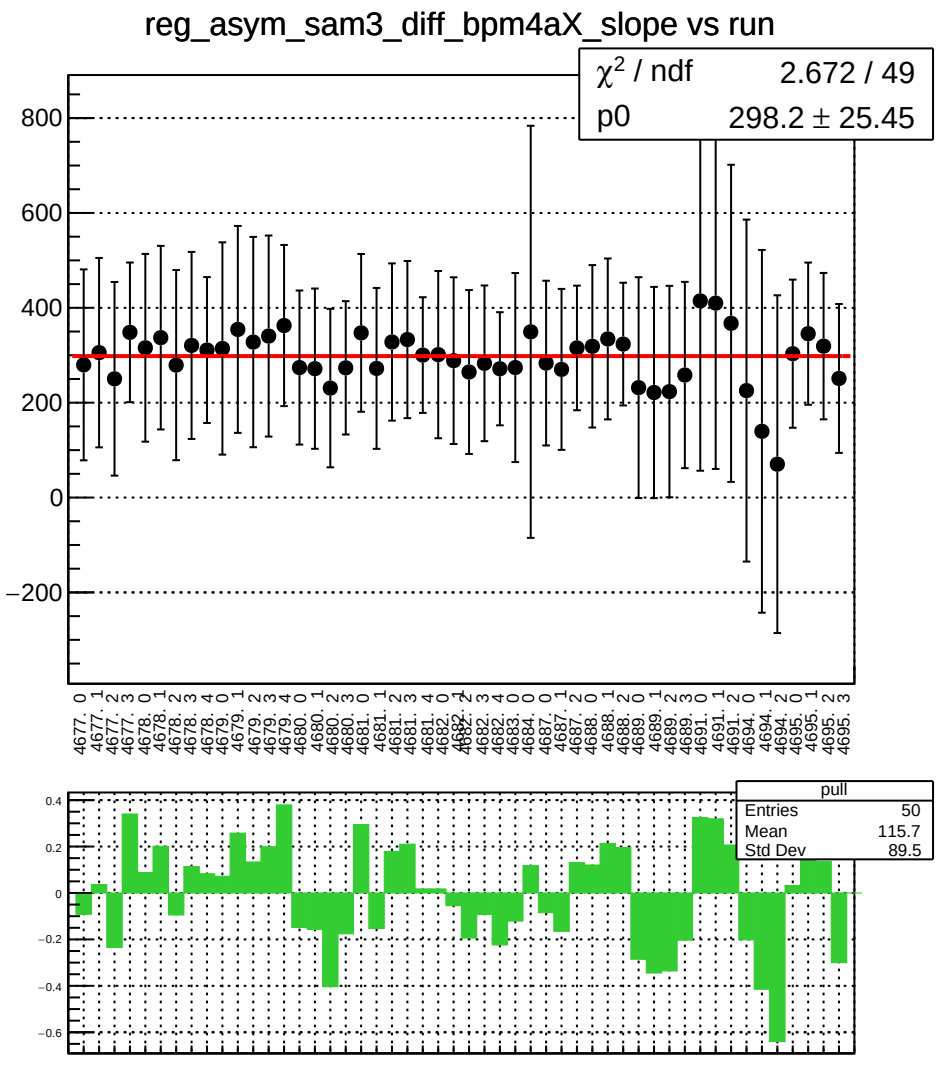

pull1D
Entries 50
Mean −0.01092
Std Dev 1.655

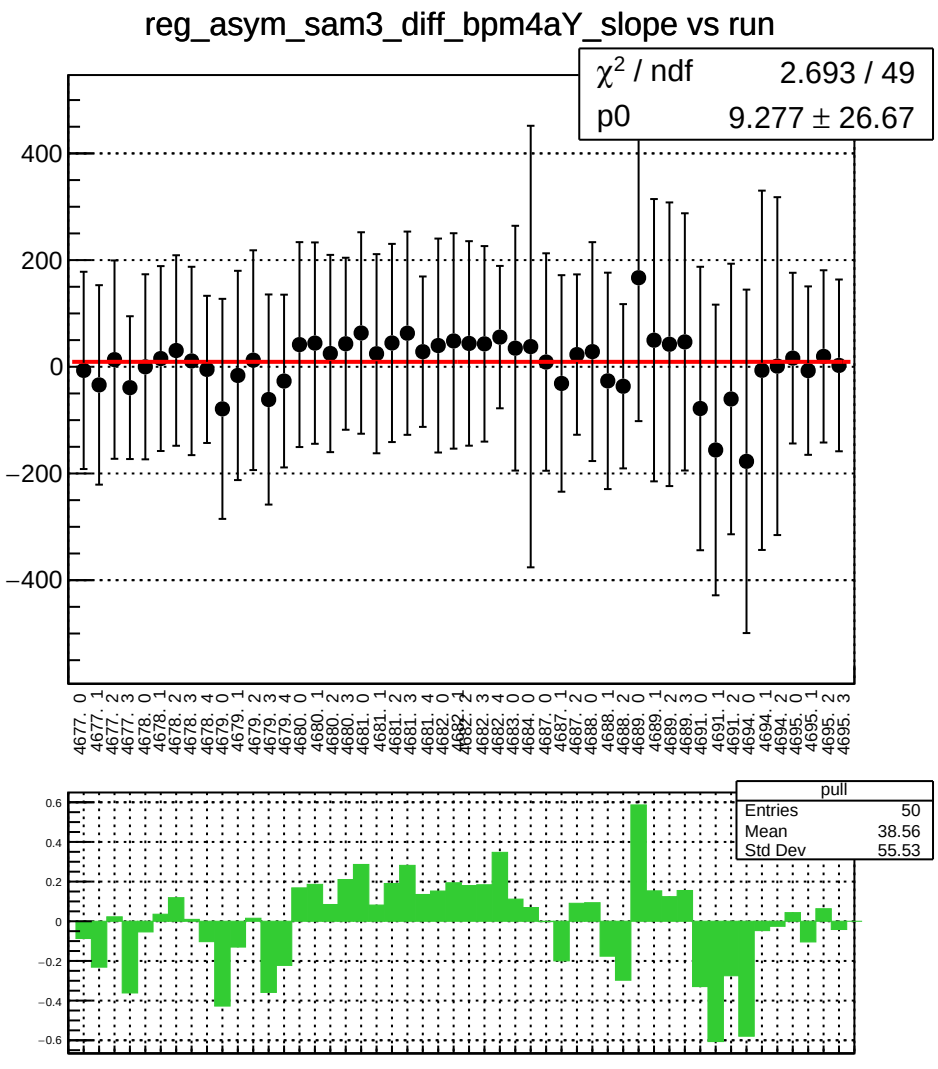

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 52.36 / 49
p0 882.1 ± 21.17
pull
Entries 50
Mean 103
Std Dev 85.16

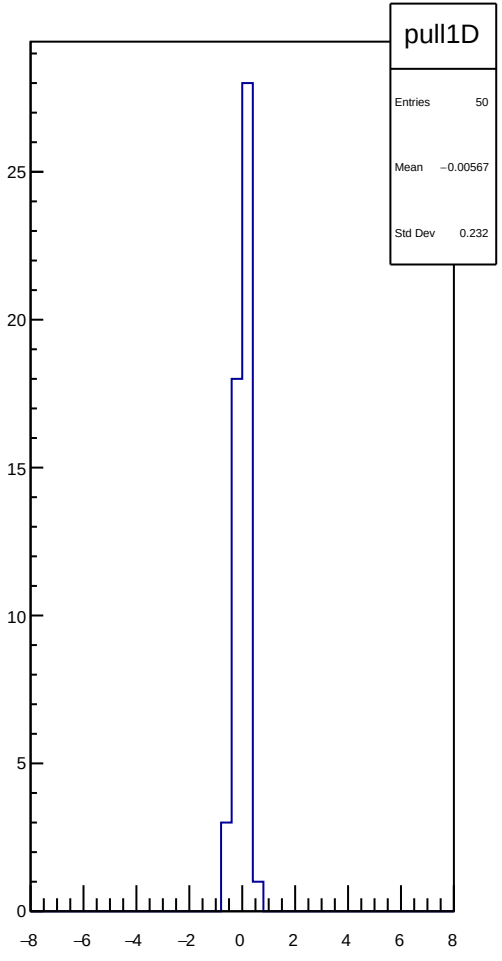

pull1D
Entries 50
Mean −0.08797
Std Dev 1.02

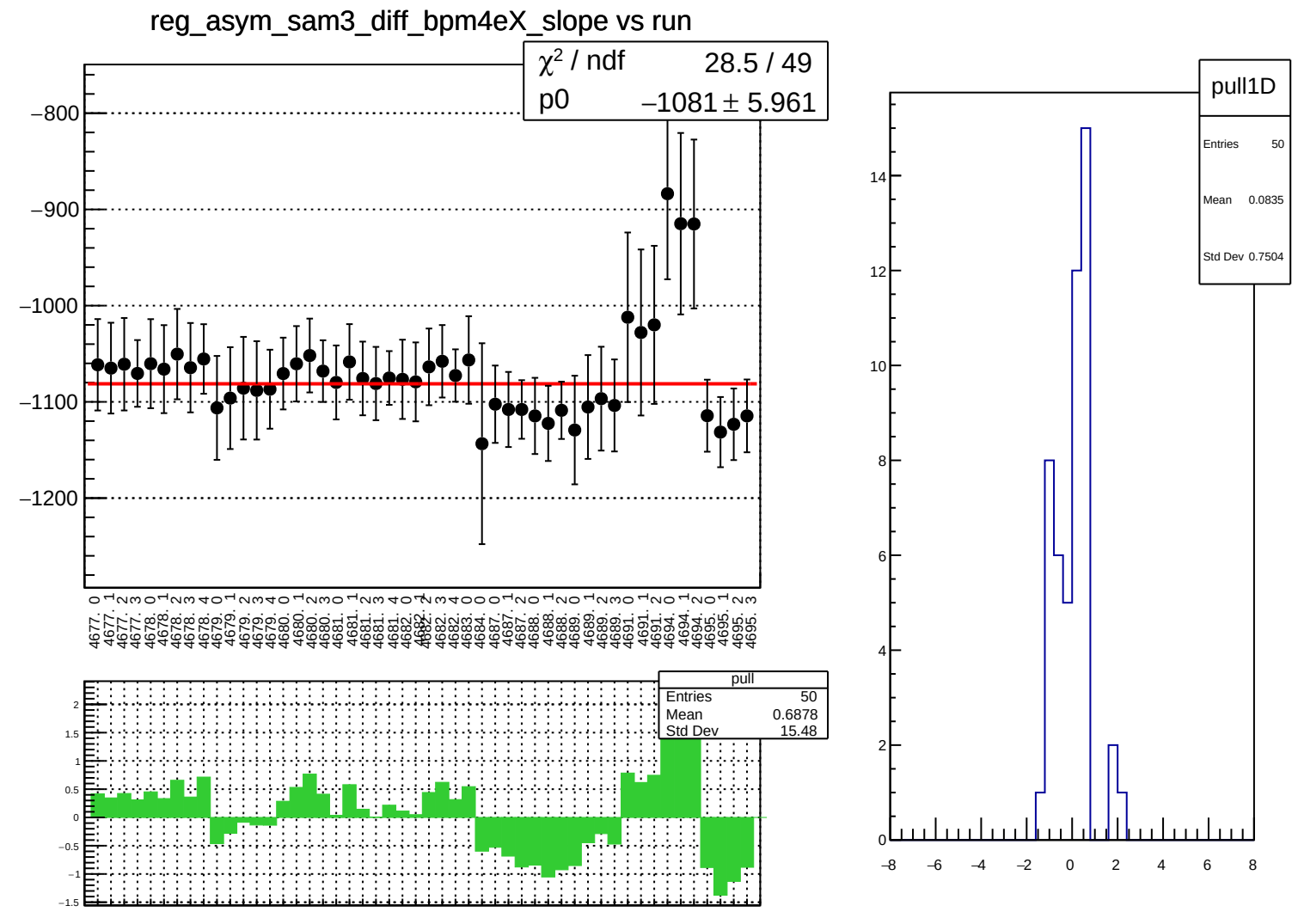

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 296.5 / 49
p0 −23.73 ± 2.347
pull
Entries 50
Mean −76.96
Std Dev 77.59

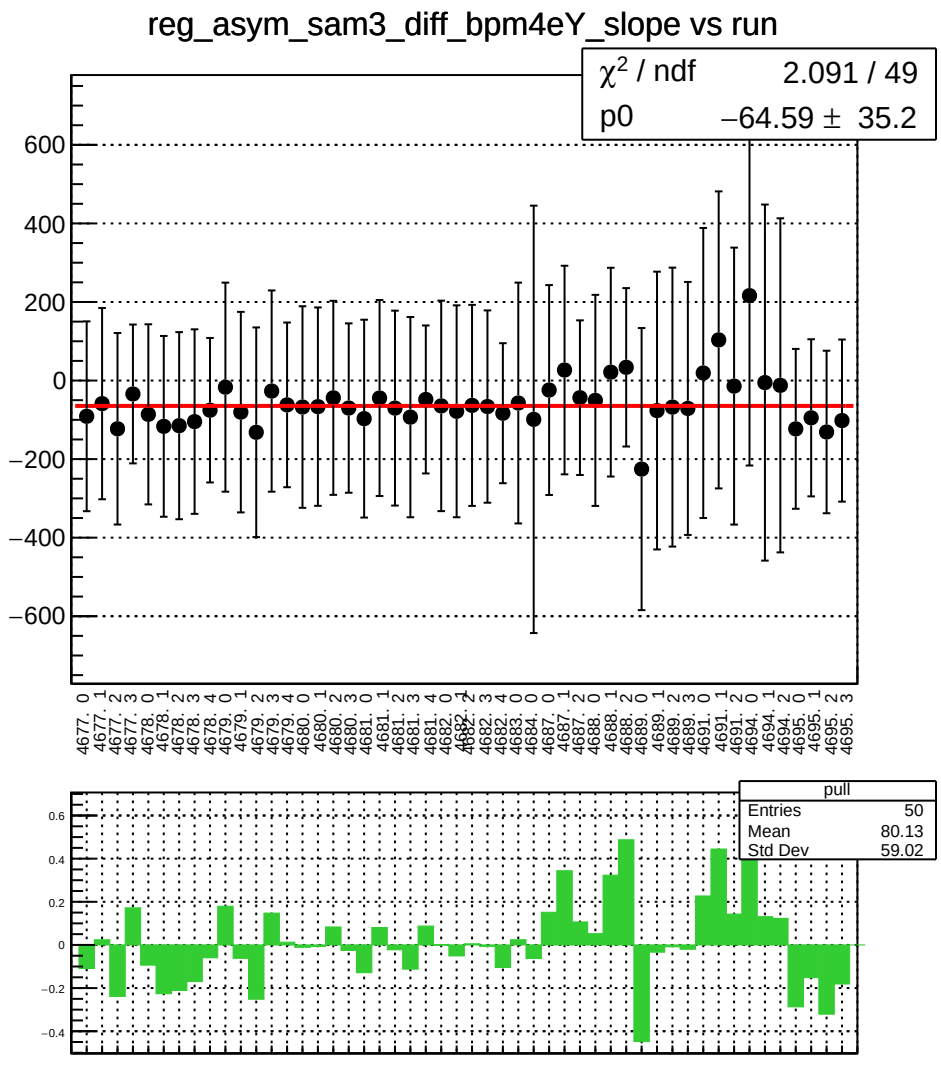

pull1D
Entries 50
Mean −0.08722
Std Dev 2.434

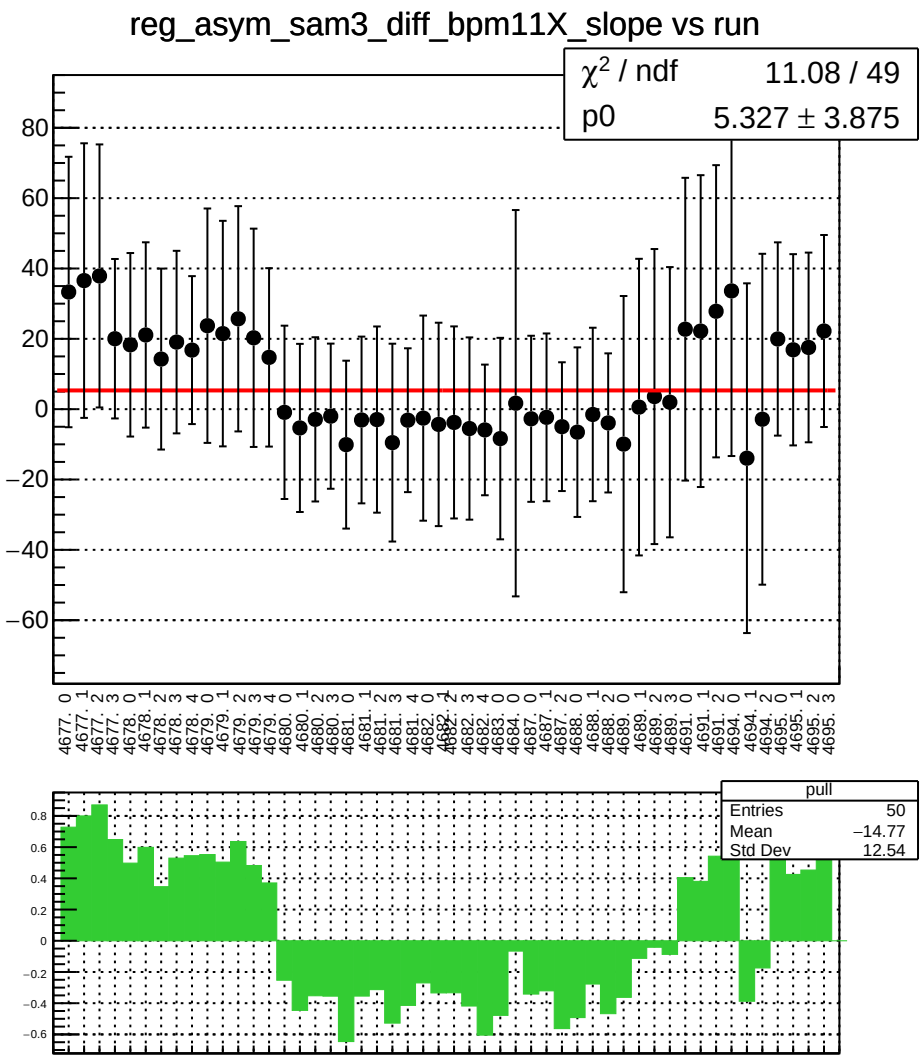

reg_asym_sam3_diff_bpm4aX_slope vs run
χ^2 / ndf 2.672 / 49
p0 298.2 ± 25.45
800
600
400
200
0
−200
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 115.7
Std Dev 89.5
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 50
Mean −0.007707
Std Dev 0.231
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

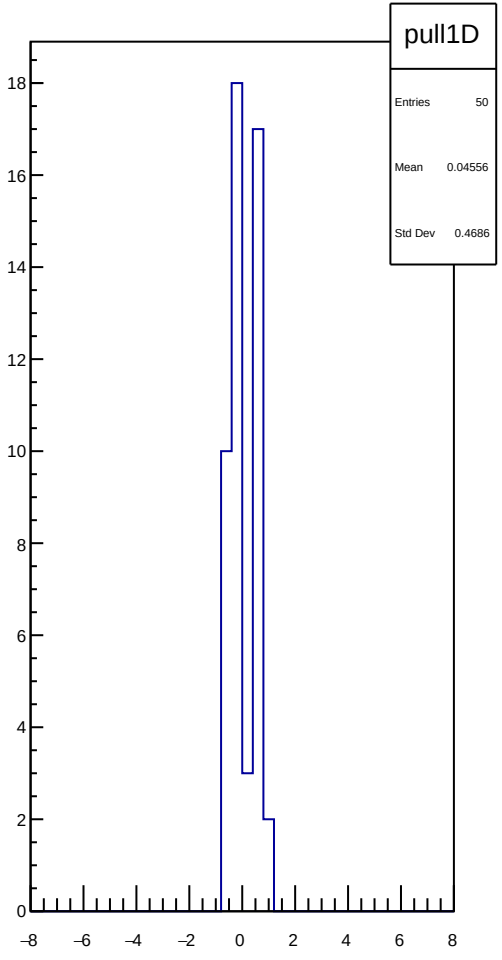

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 2.693 / 49
p0 9.277 ± 26.67
400
200
0
−200
−400
pull
Entries 50
Mean 38.56
Std Dev 55.53
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

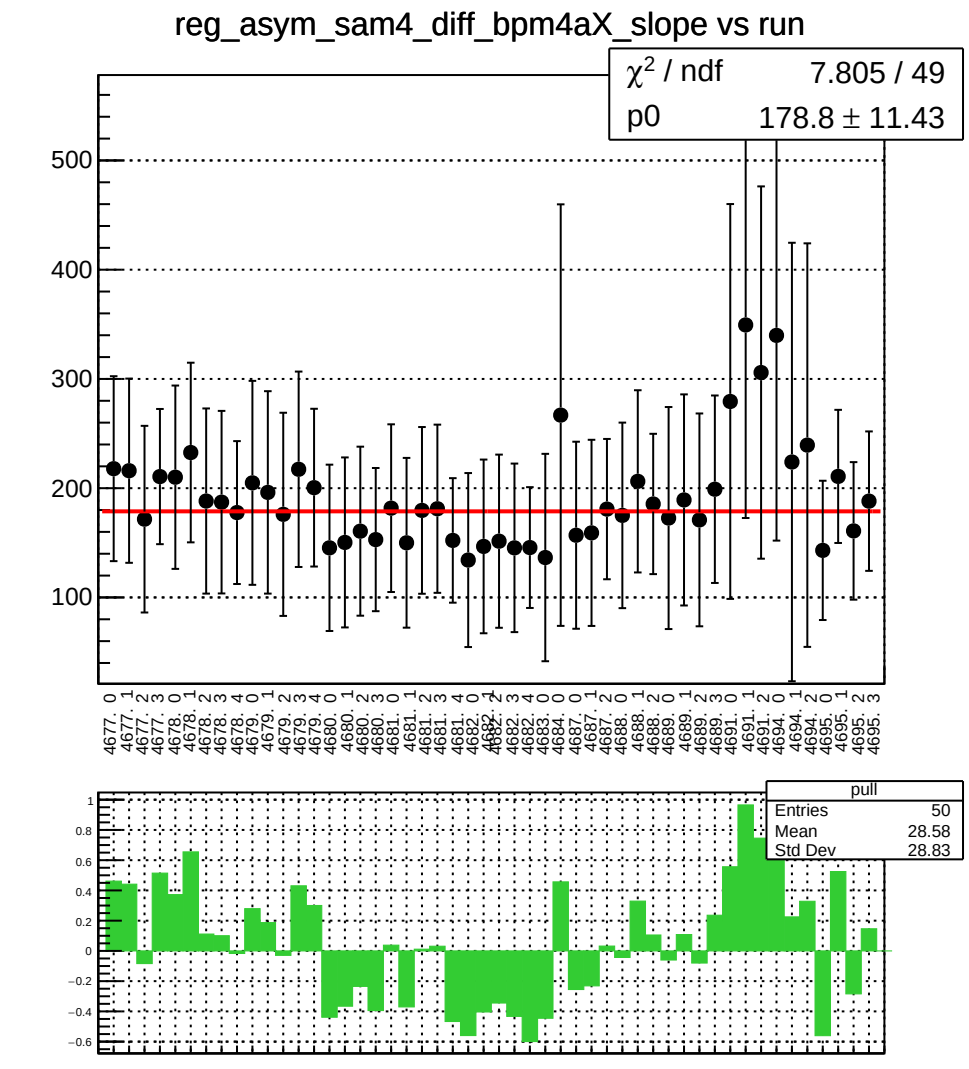

pull1D
Entries 50
Mean −0.00567
Std Dev 0.232
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

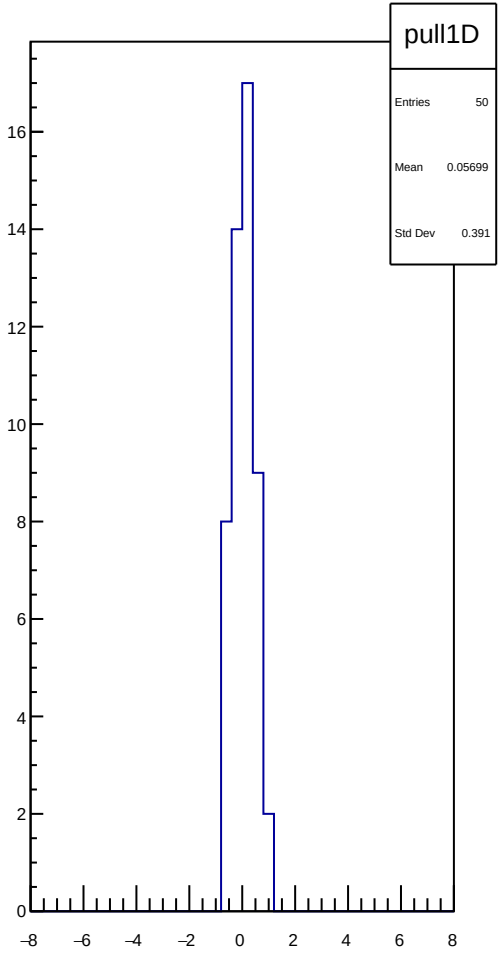

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 28.5 / 49
p0 −1081 ± 5.961
−800
−900
−1000
−1100
−1200
pull
Entries 50
Mean 0.6878
Std Dev 15.48
pull1D
Entries 50
Mean 0.0835
Std Dev 0.7504

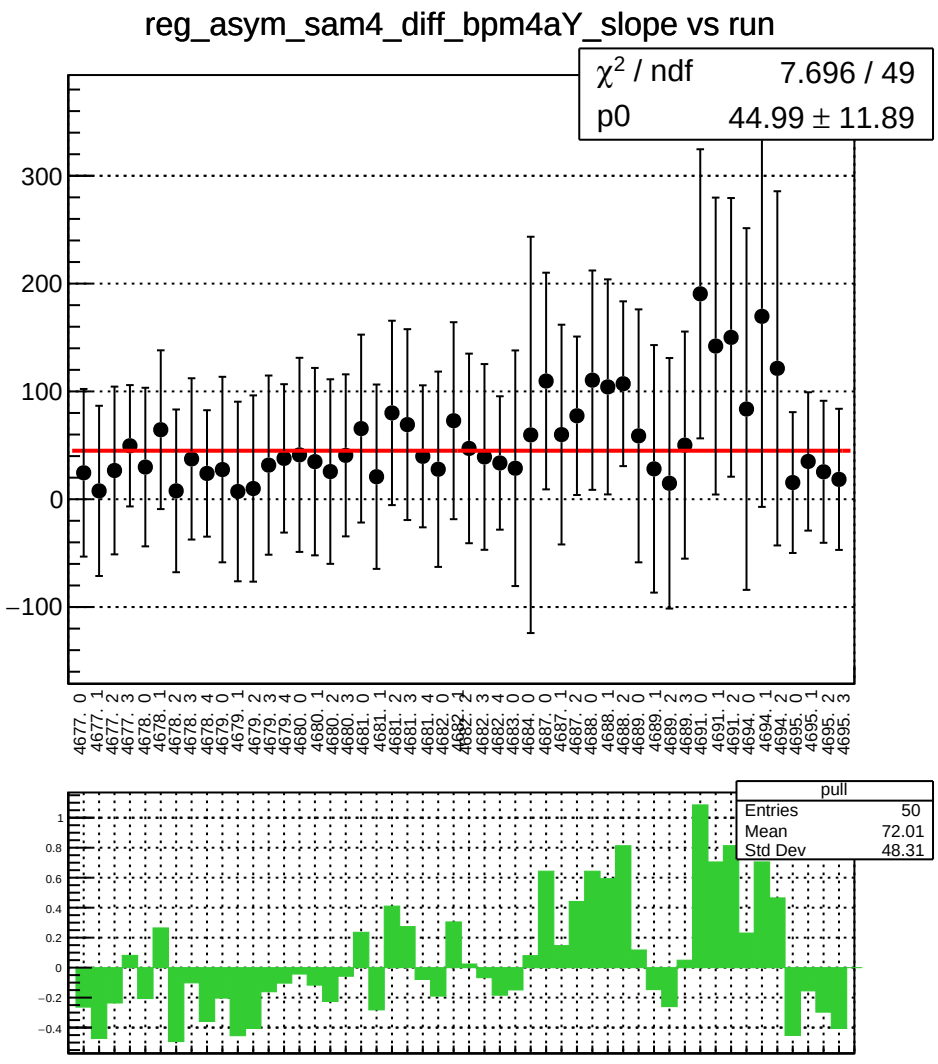

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 2.091 / 49
p0 −64.59 ± 35.2
600
400
200
0
−200
−400
−600
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 80.13
Std Dev 59.02
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 50
Mean 0.0119
Std Dev 0.2041
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

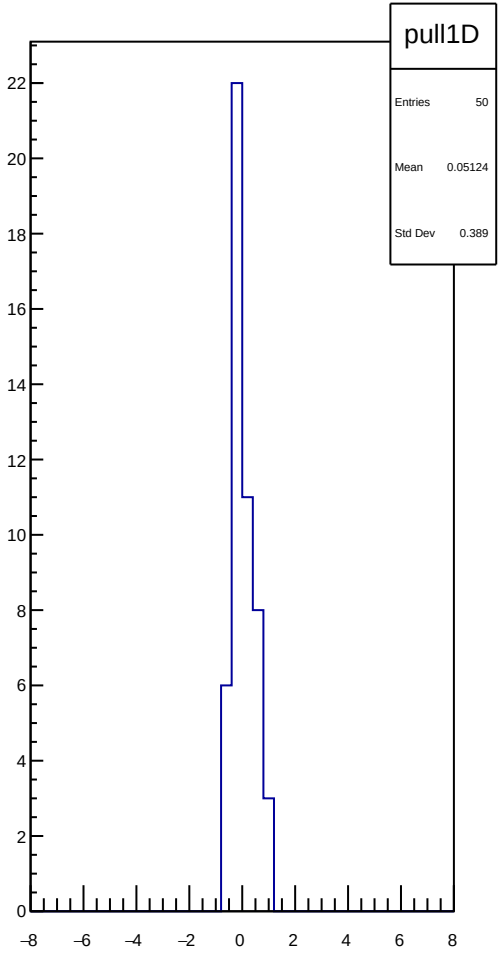

reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 11.08 / 49
p0 5.327 ± 3.875
pull
Entries 50
Mean −14.77
Std Dev 12.54

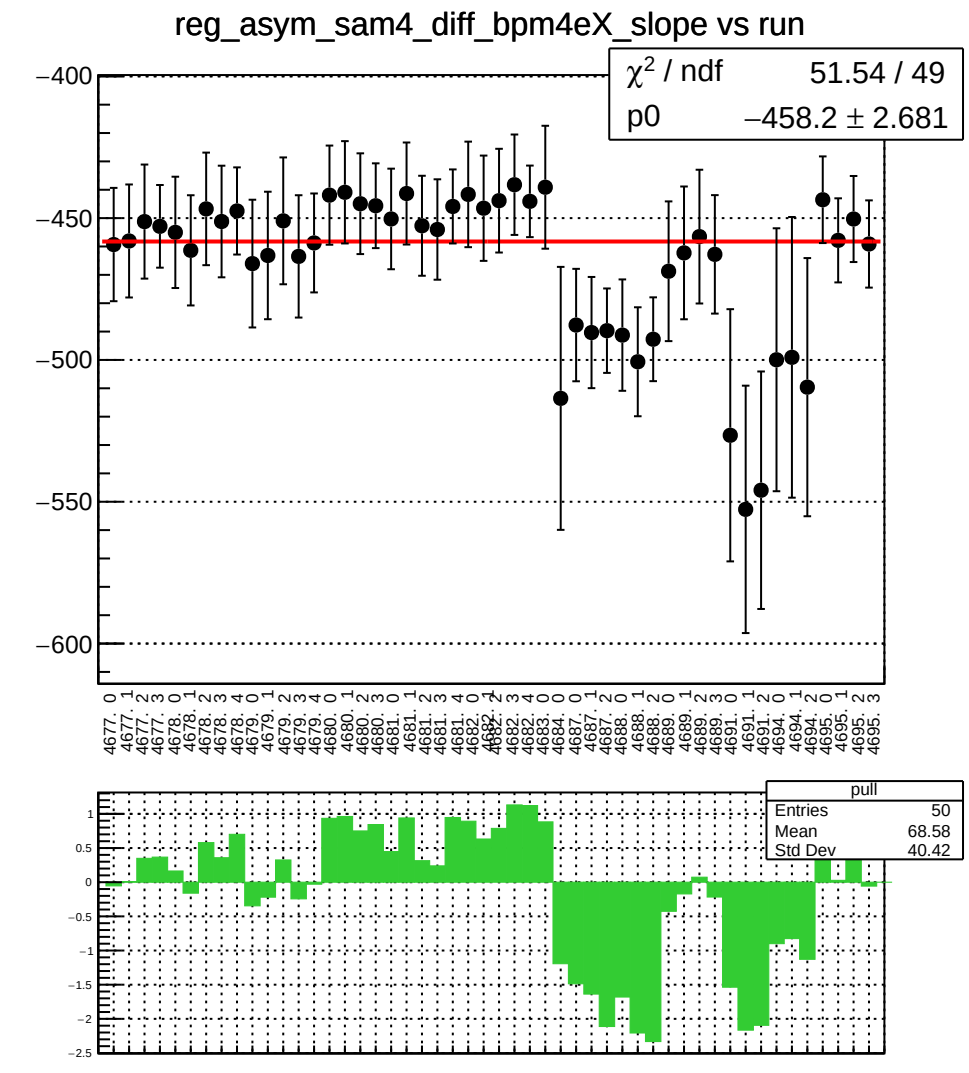

pull1D
Entries 50
Mean 0.04556
Std Dev 0.4686

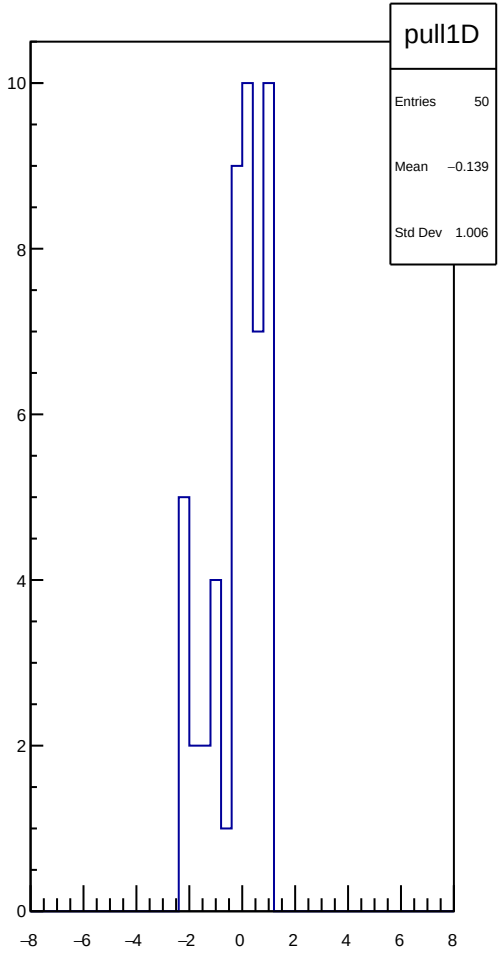

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 7.805 / 49
p0 178.8 ± 11.43
pull
Entries 50
Mean 28.58
Std Dev 28.83

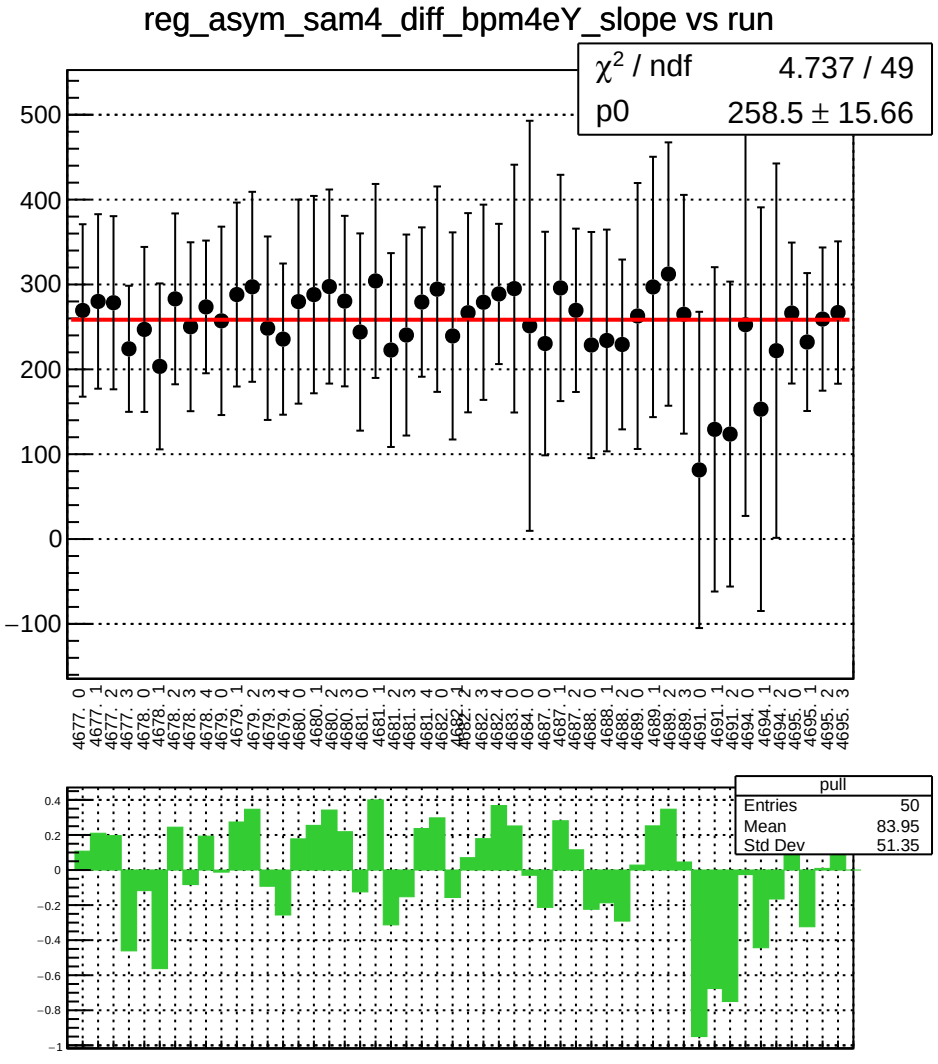

pull1D
Entries 50
Mean 0.05699
Std Dev 0.391

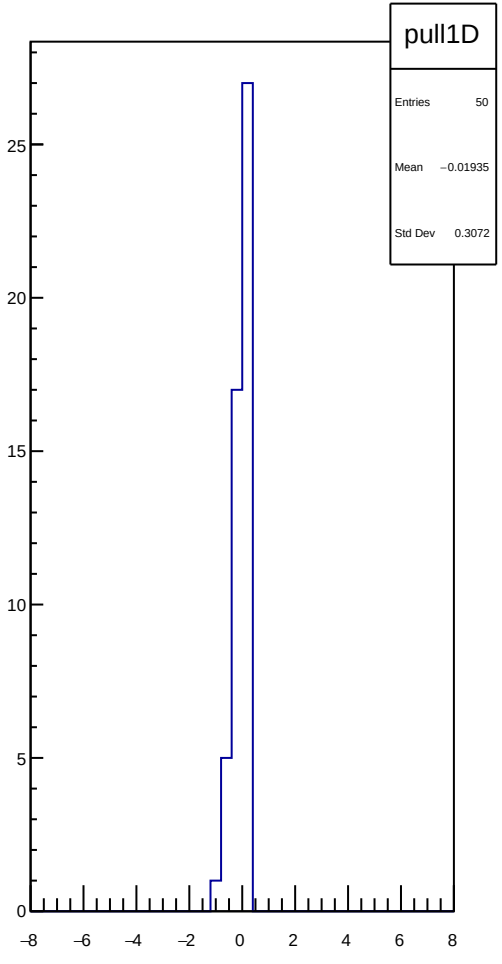

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 7.696 / 49
p0 44.99 ± 11.89
300
200
100
0
−100
pull
Entries 50
Mean 72.01
Std Dev 48.31
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

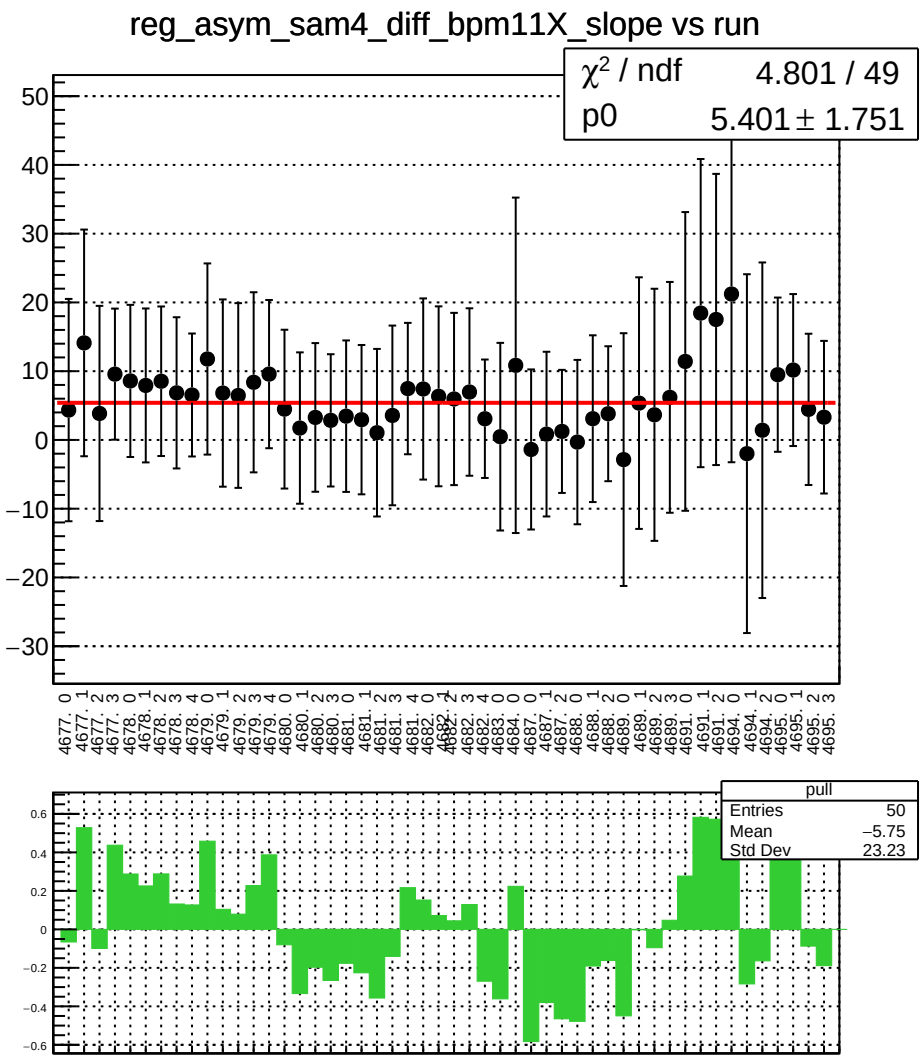

pull1D
Entries 50
Mean 0.05124
Std Dev 0.389
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

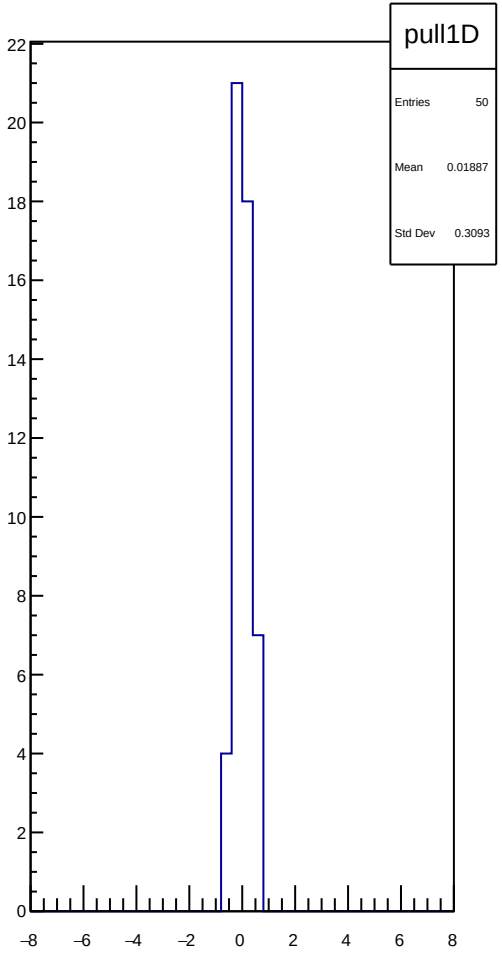

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 51.54 / 49
p0 −458.2 ± 2.681
−400
−450
−500
−550
−600
pull
Entries 50
Mean 68.58
Std Dev 40.42
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

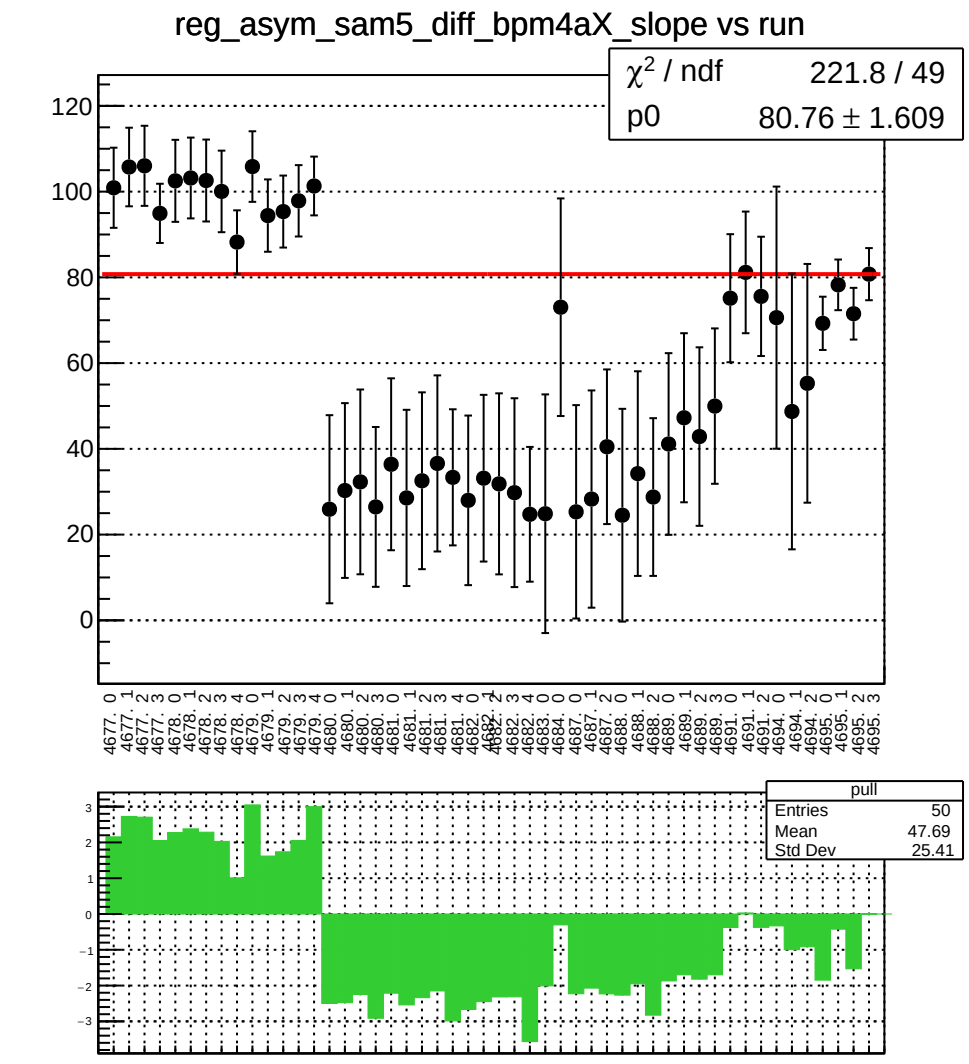

pull1D
Entries 50
Mean −0.139
Std Dev 1.006
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

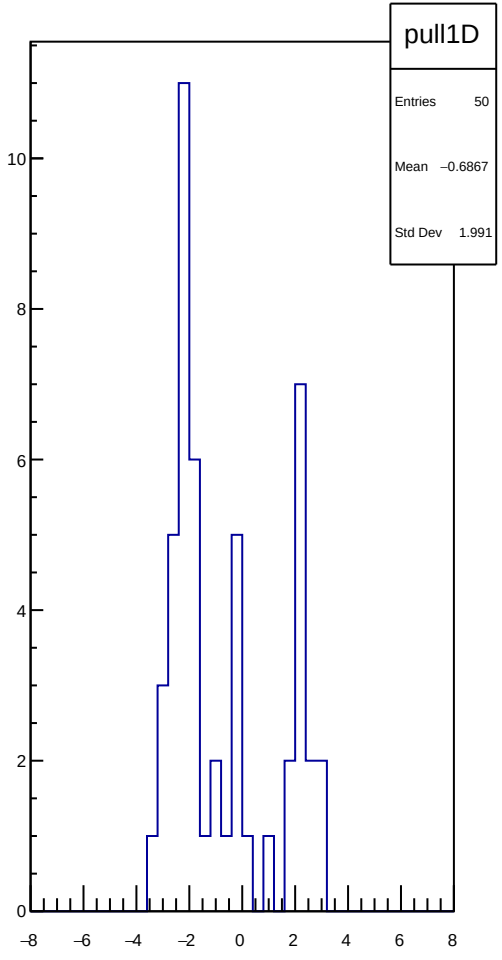

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 4.737 / 49
p0 258.5 ± 15.66
pull
Entries 50
Mean 83.95
Std Dev 51.35

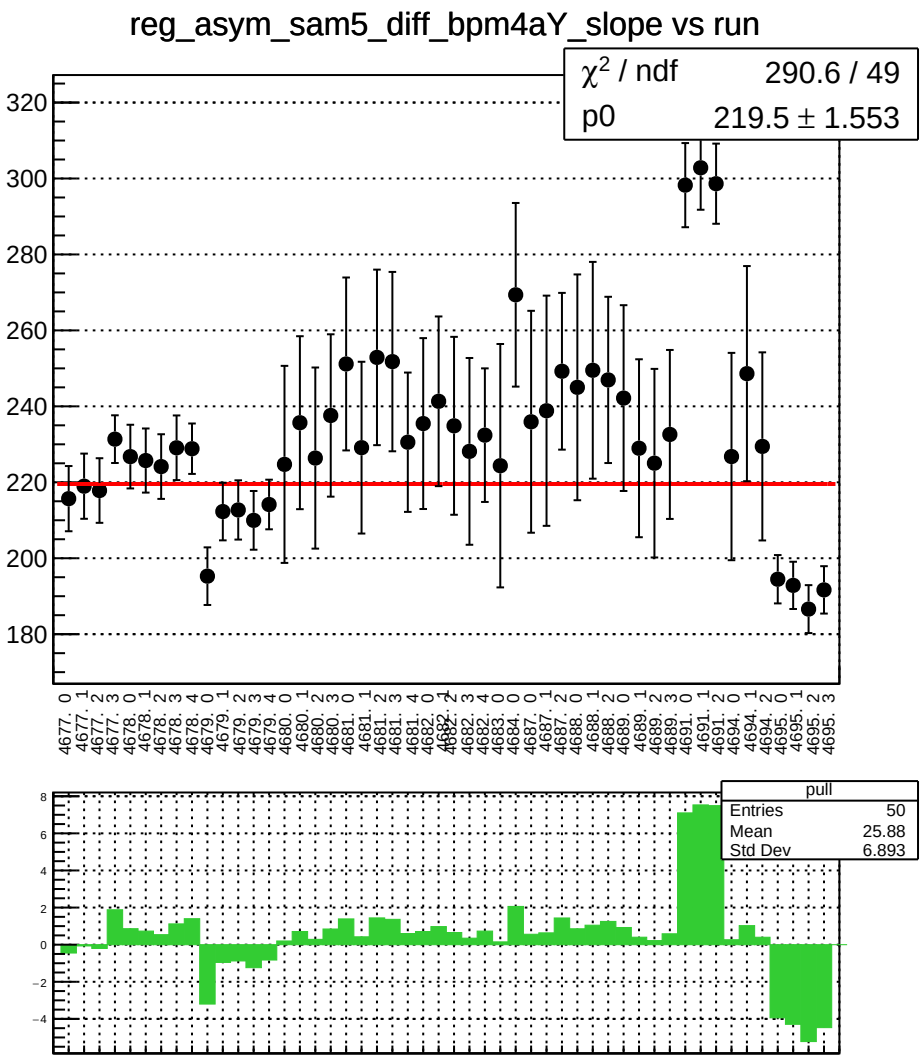

pull1D
Entries 50
Mean −0.01935
Std Dev 0.3072

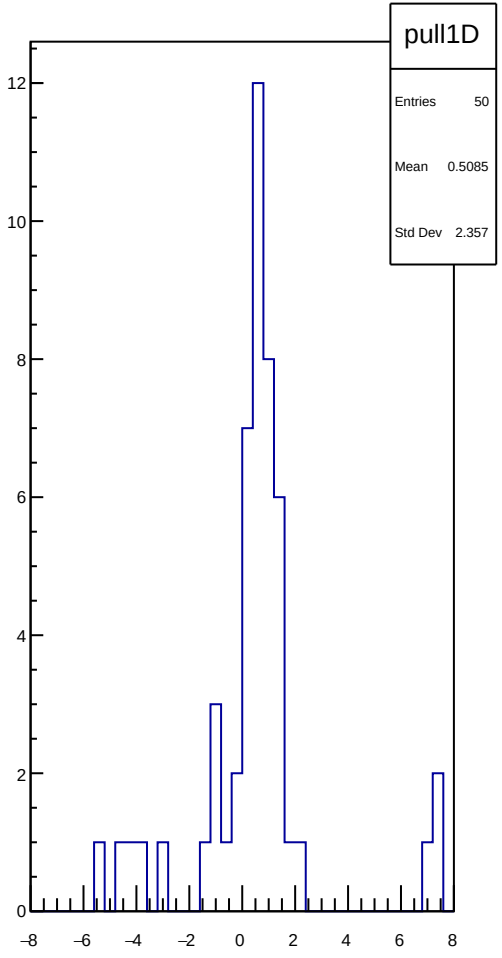

reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 4.801 / 49
p0 5.401 ± 1.751
pull
Entries 50
Mean −5.75
Std Dev 23.23

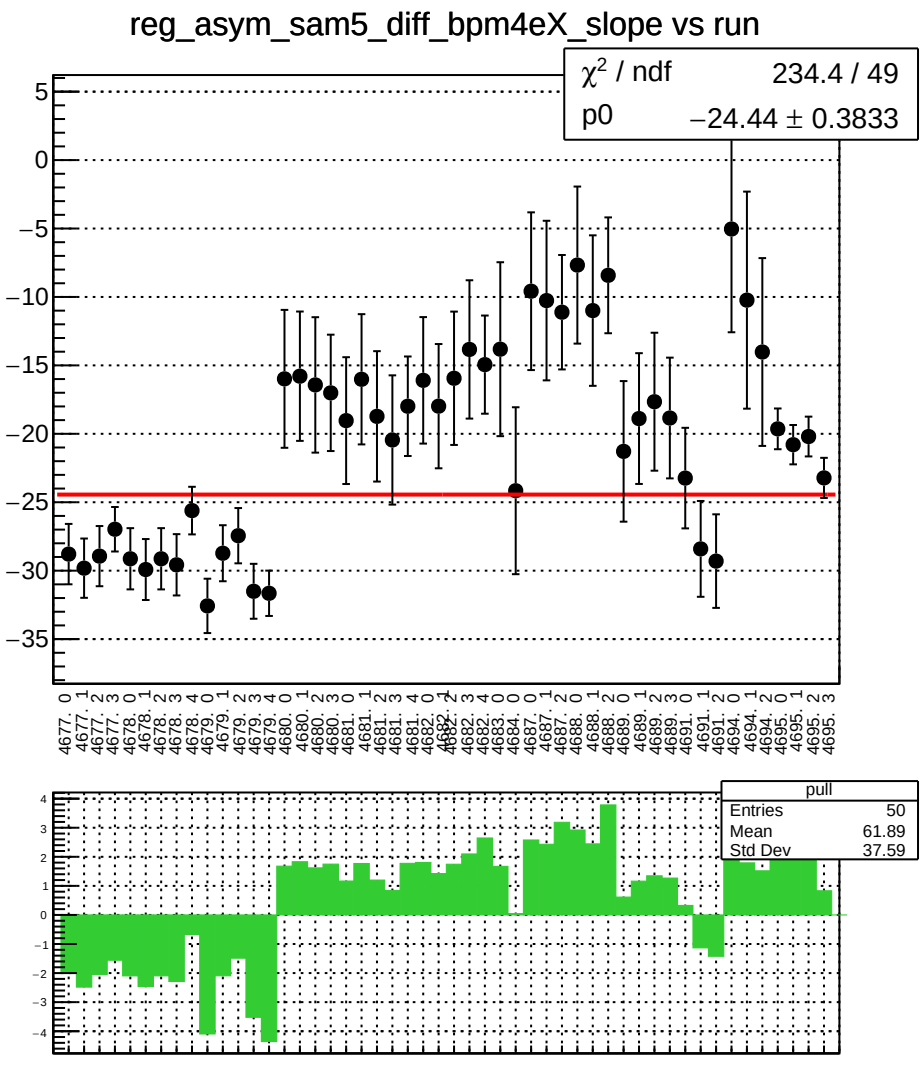

pull1D
Entries 50
Mean 0.01887
Std Dev 0.3093

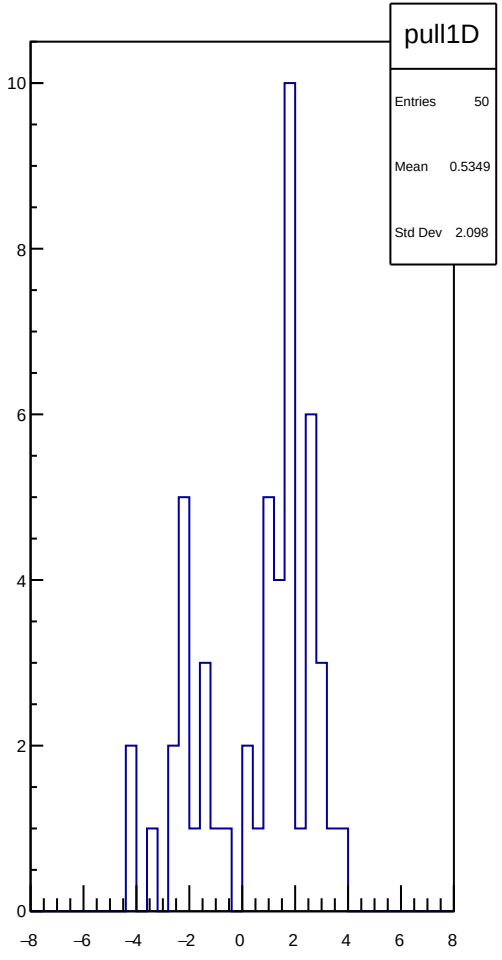

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 221.8 / 49
p0 80.76 ± 1.609
pull
Entries 50
Mean 47.69
Std Dev 25.41

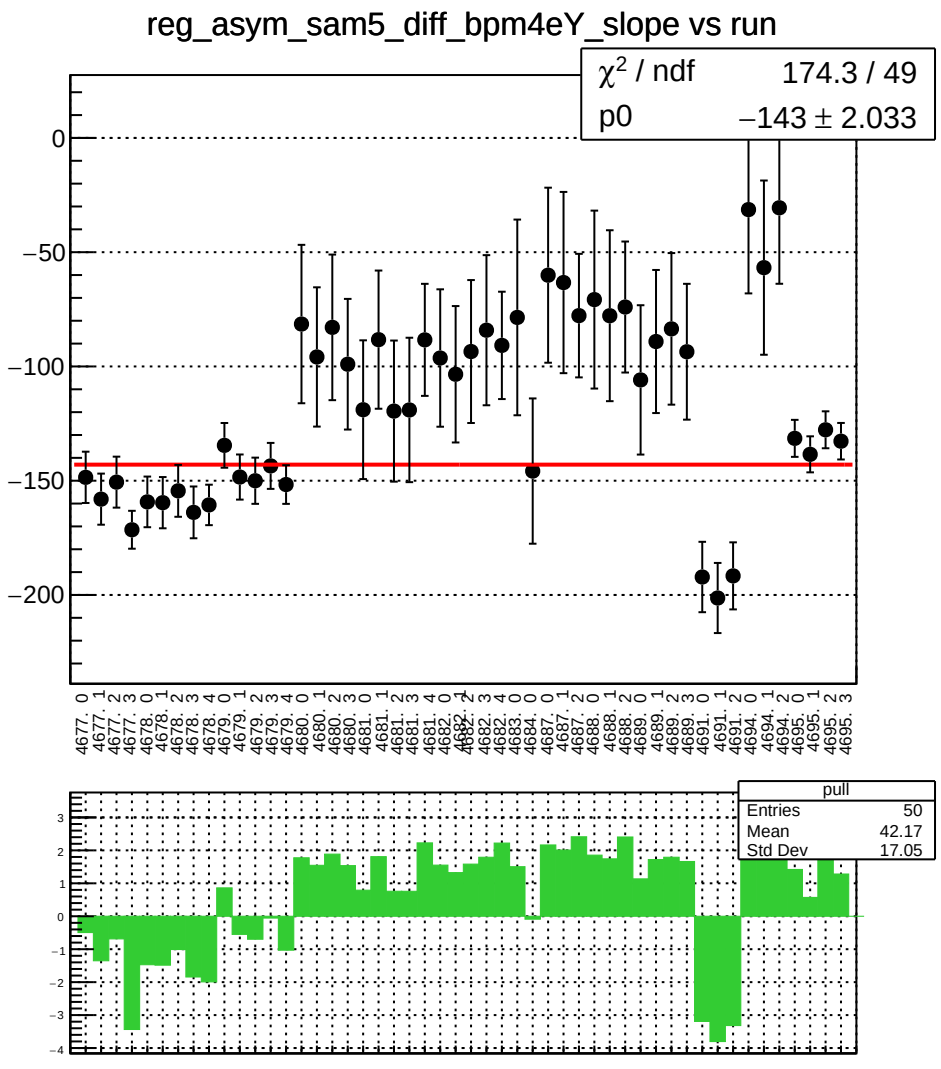

pull1D
Entries 50
Mean −0.6867
Std Dev 1.991

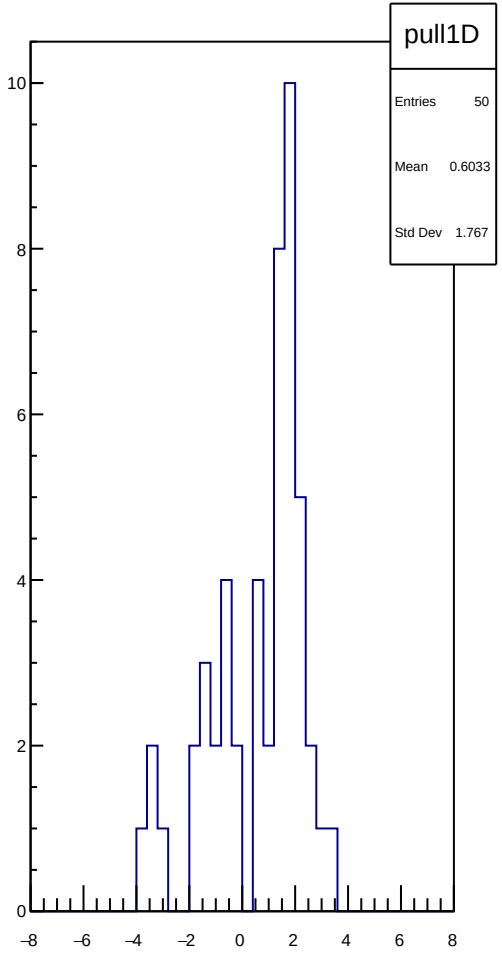

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 290.6 / 49
p0 219.5 ± 1.553
pull
Entries 50
Mean 25.88
Std Dev 6.893

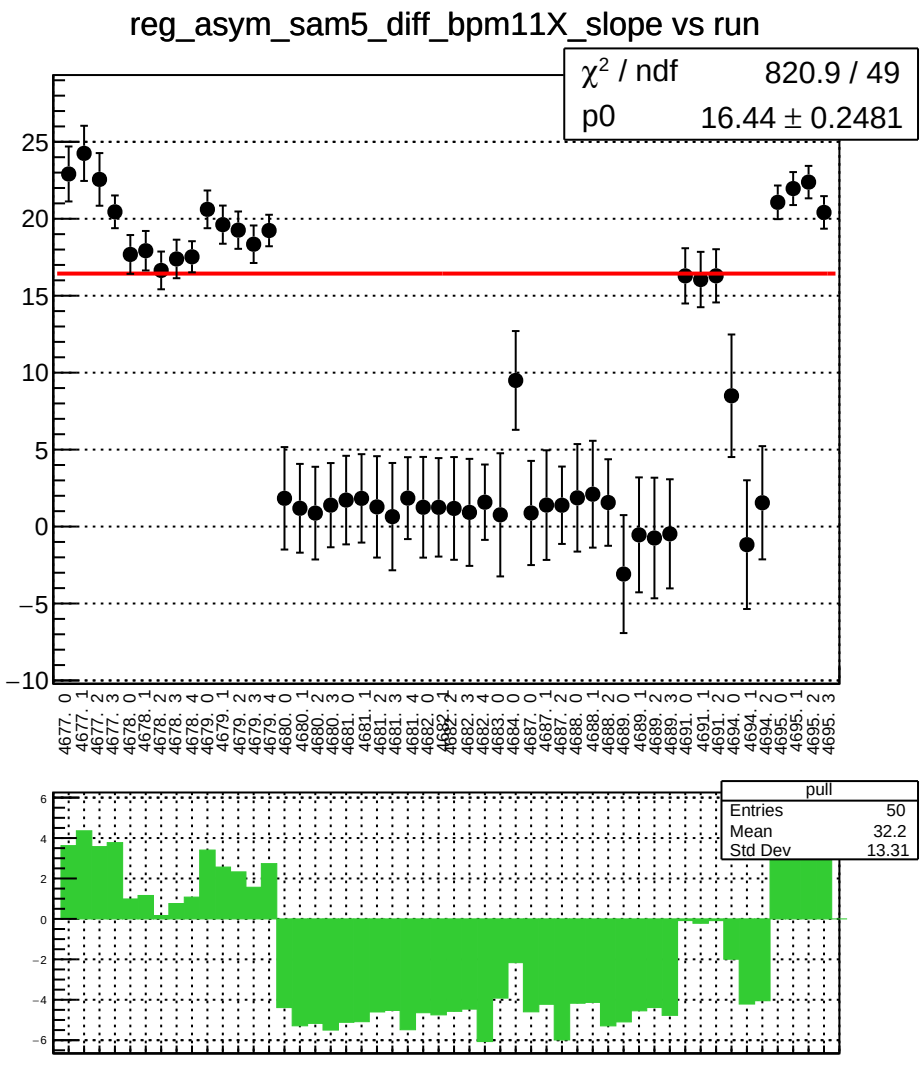

pull1D
Entries 50
Mean 0.5085
Std Dev 2.357

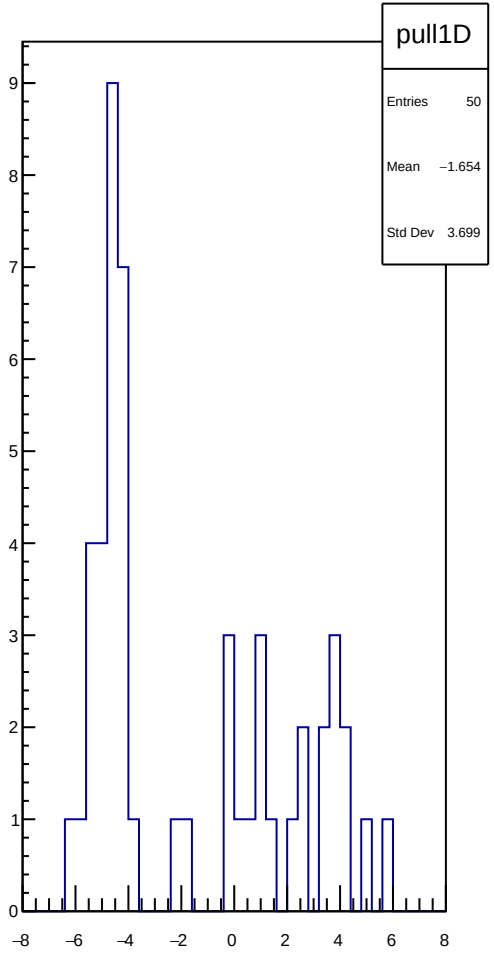

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 234.4 / 49
p0 −24.44 ± 0.3833
pull
Entries 50
Mean 61.89
Std Dev 37.59

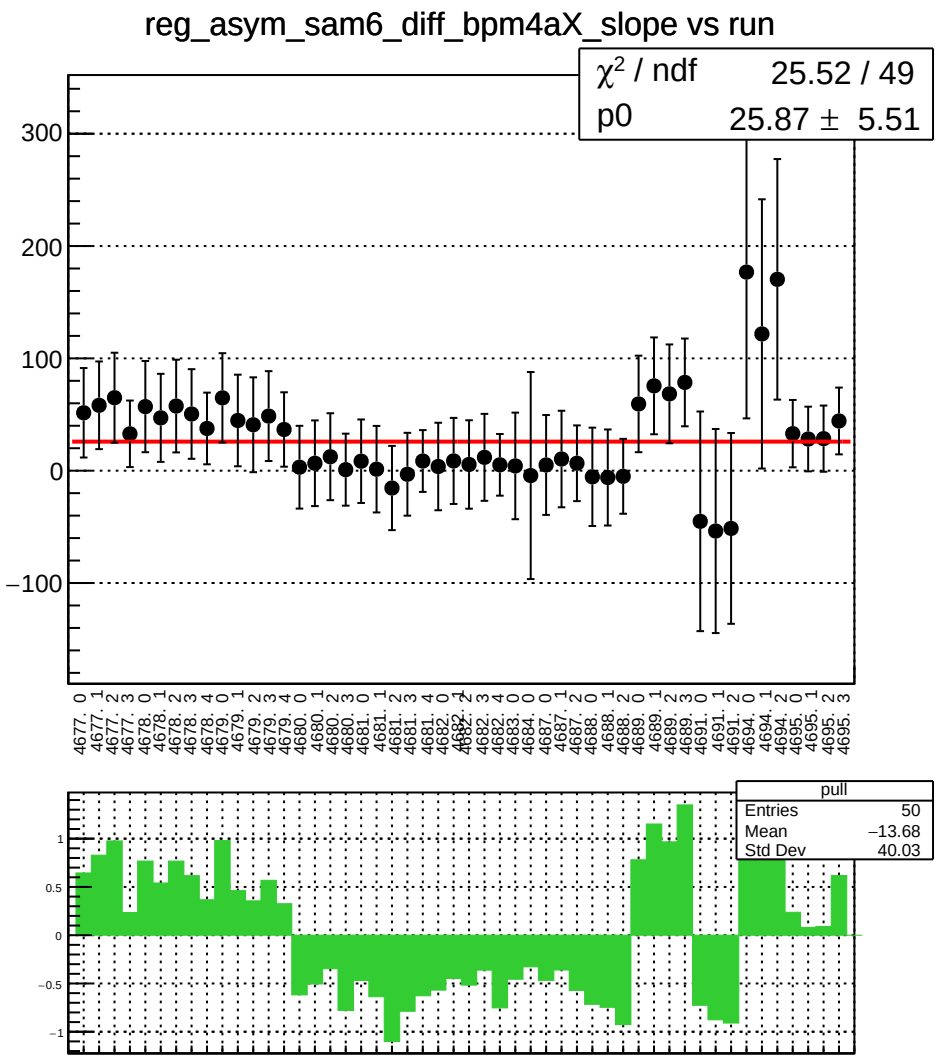

pull1D
Entries 50
Mean 0.5349
Std Dev 2.098

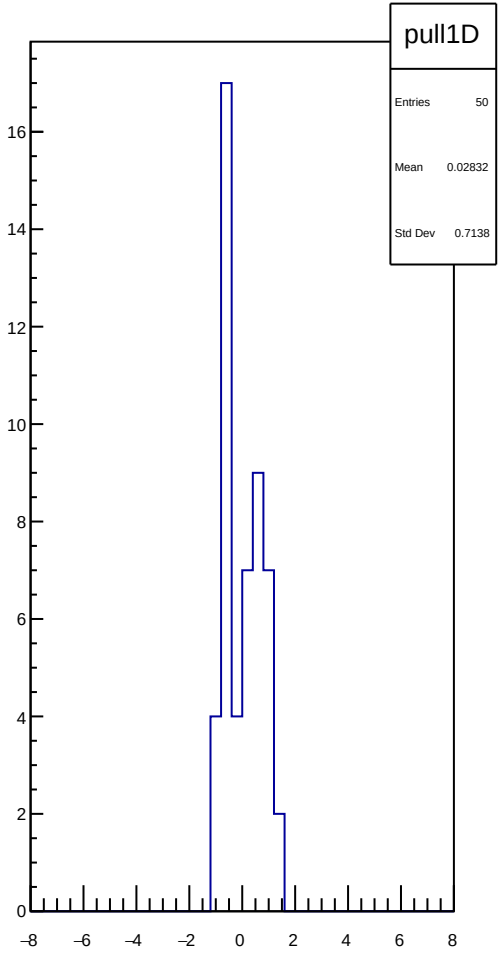

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 174.3 / 49
p0 −143 ± 2.033
pull
Entries 50
Mean 42.17
Std Dev 17.05

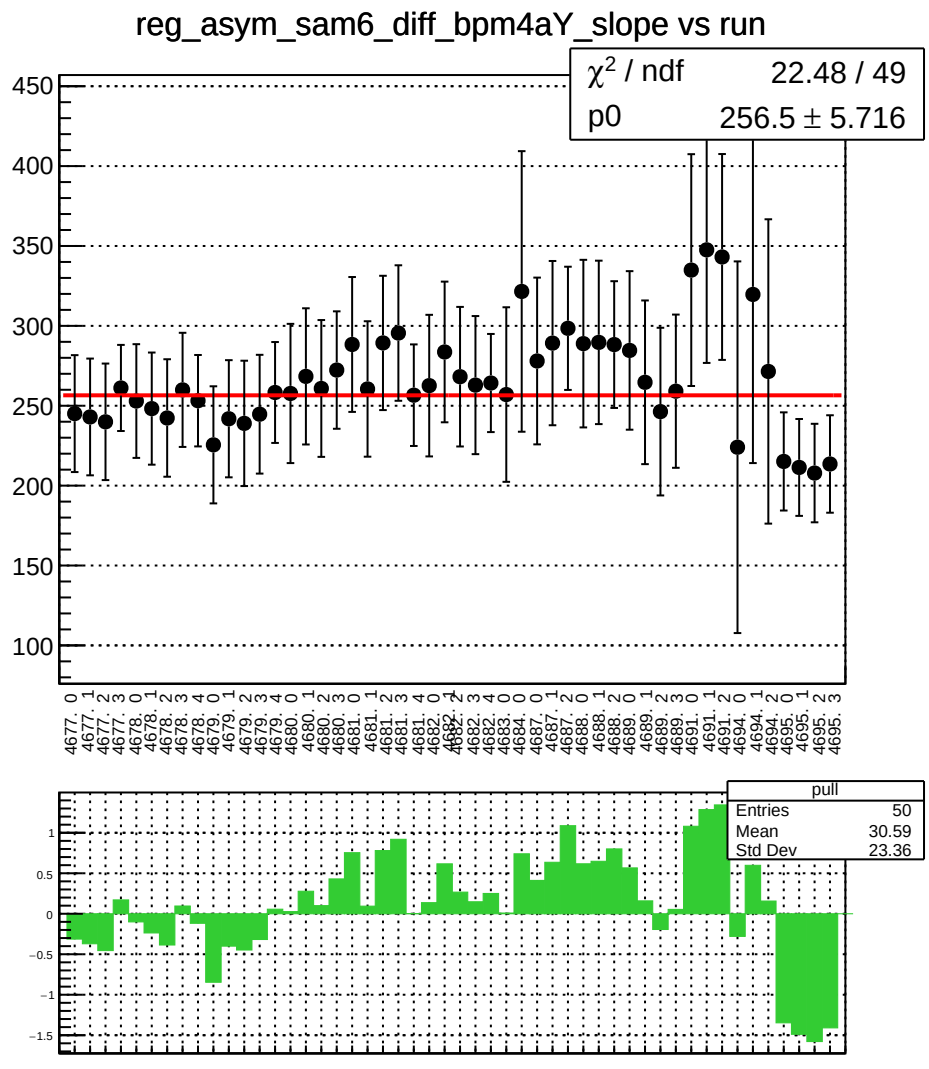

pull1D
Entries 50
Mean 0.6033
Std Dev 1.767

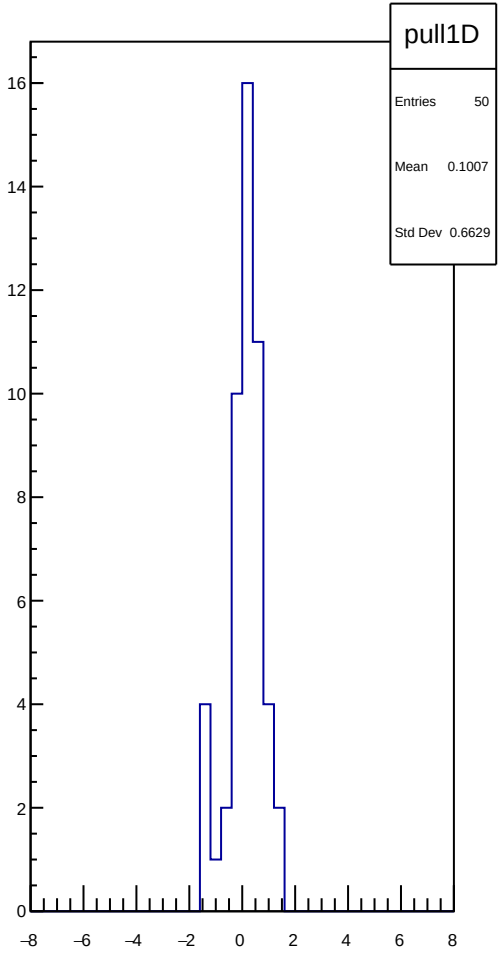

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 820.9 / 49
p0 16.44 ± 0.2481
pull
Entries 50
Mean 32.2
Std Dev 13.31

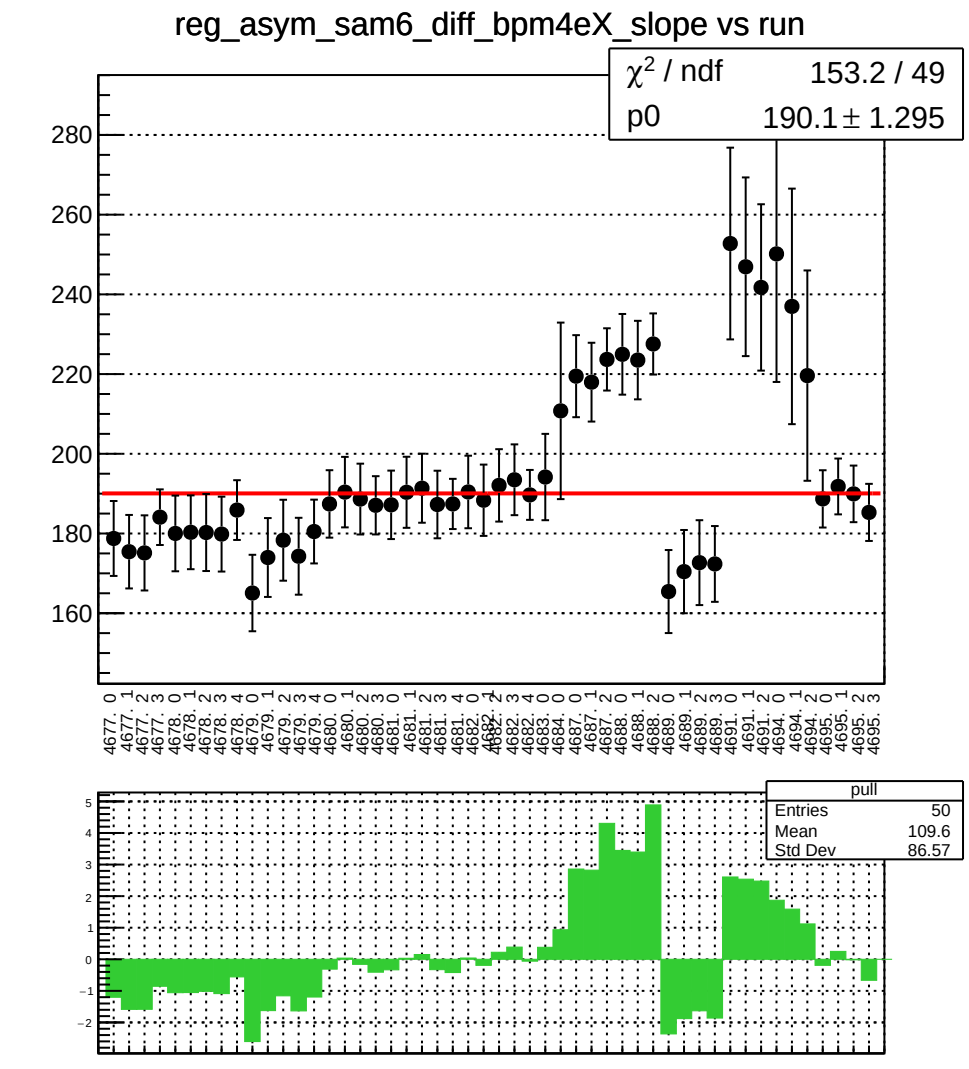

pull1D
Entries 50
Mean −1.654
Std Dev 3.699

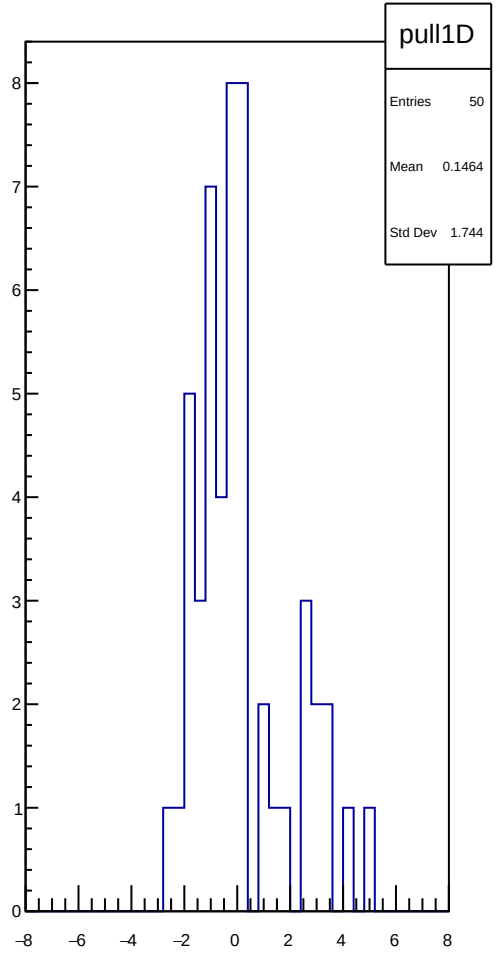

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 25.52 / 49
p0 25.87 ± 5.51
300
200
100
0
−100
pull
Entries 50
Mean −13.68
Std Dev 40.03
1
0.5
0
−0.5
−1

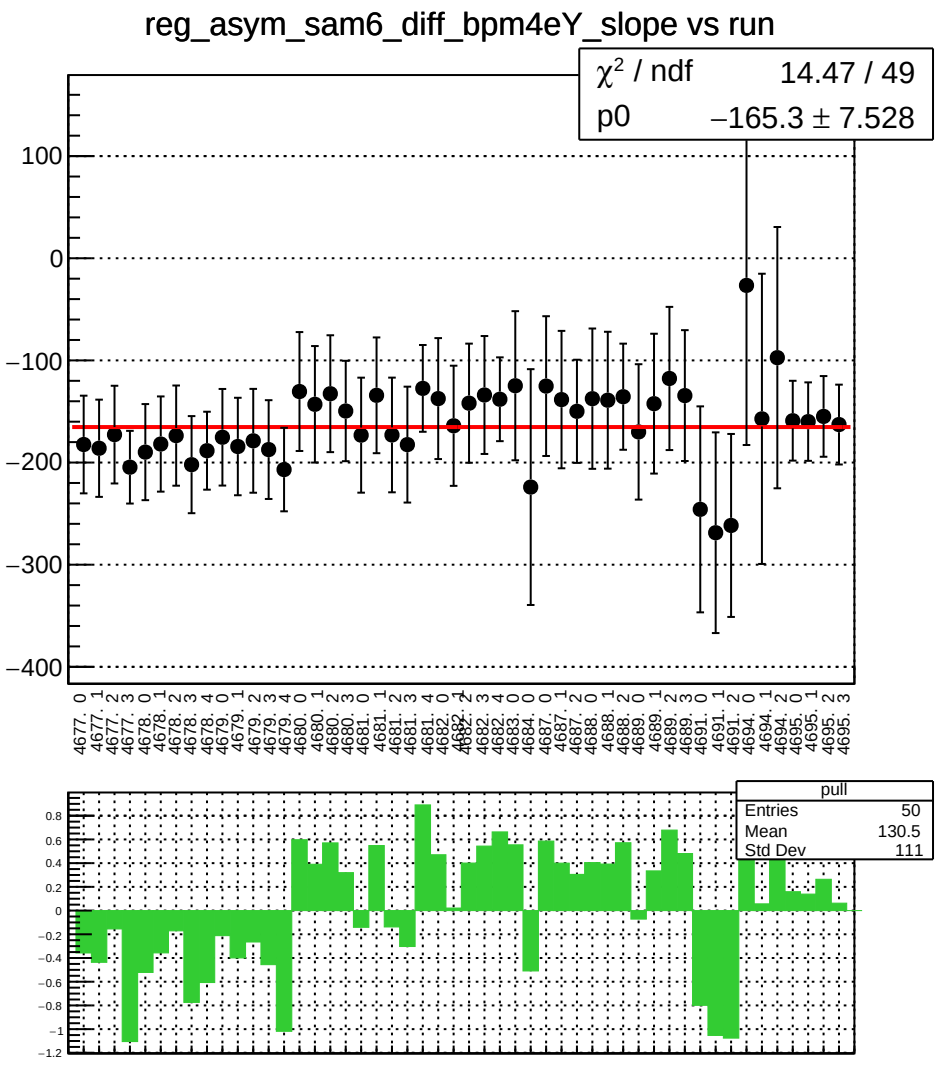

pull1D
Entries 50
Mean 0.02832
Std Dev 0.7138
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

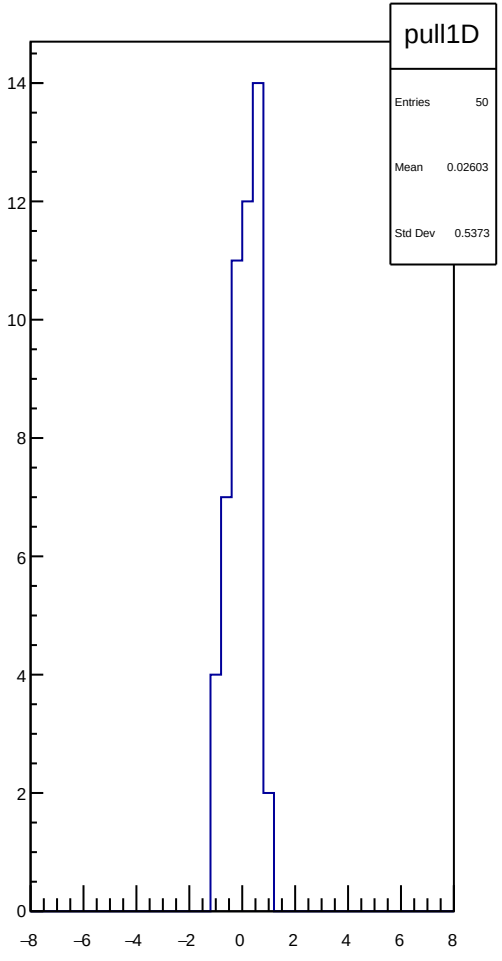

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 22.48 / 49
p0 256.5 ± 5.716
pull
Entries 50
Mean 30.59
Std Dev 23.36

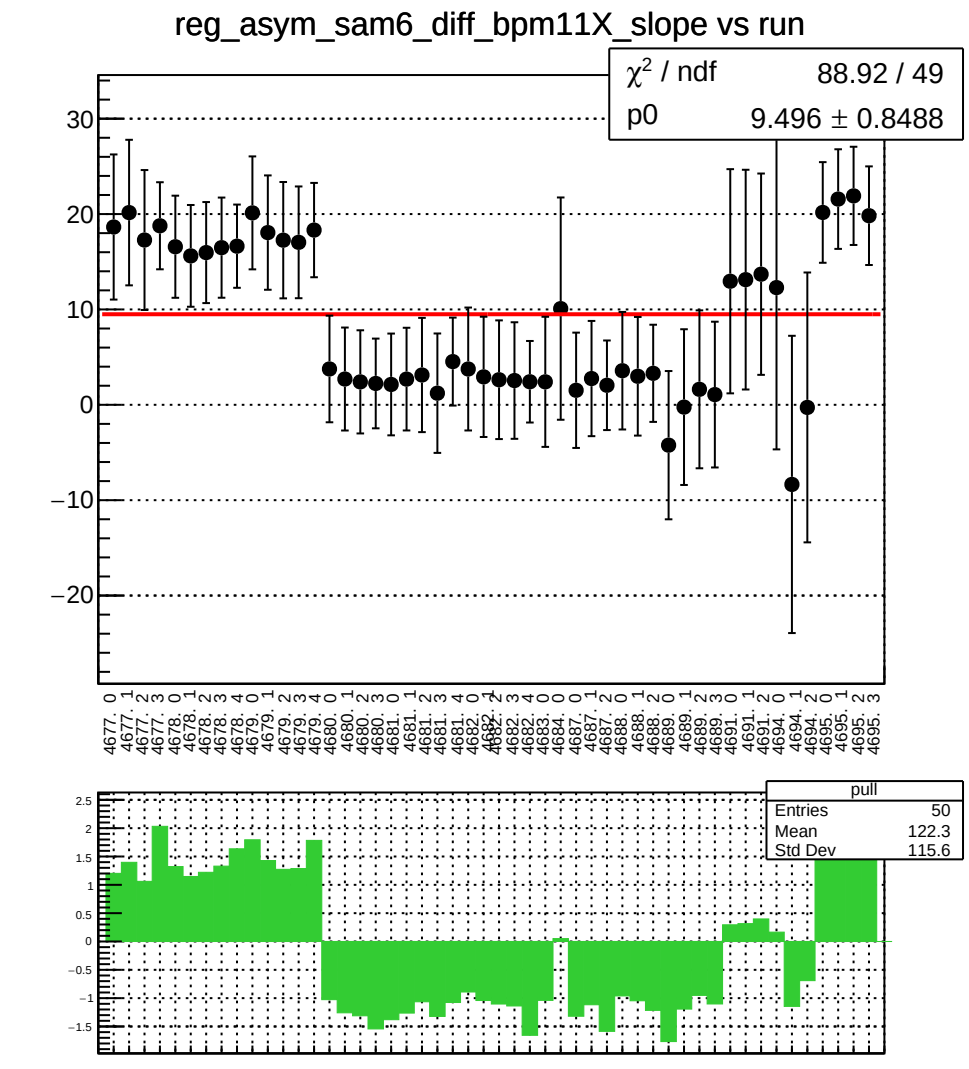

pull1D
Entries 50
Mean 0.1007
Std Dev 0.6629

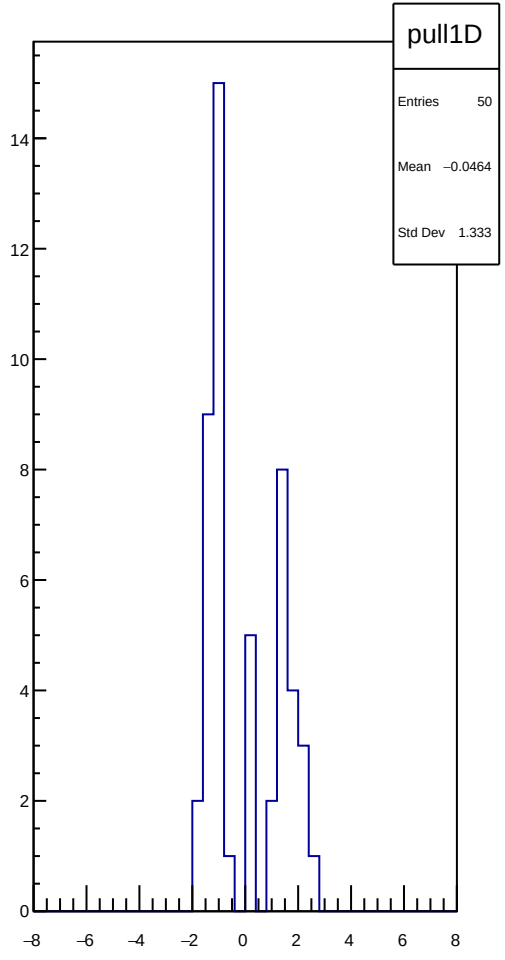

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 153.2 / 49
p0 190.1 ± 1.295
pull
Entries 50
Mean 109.6
Std Dev 86.57

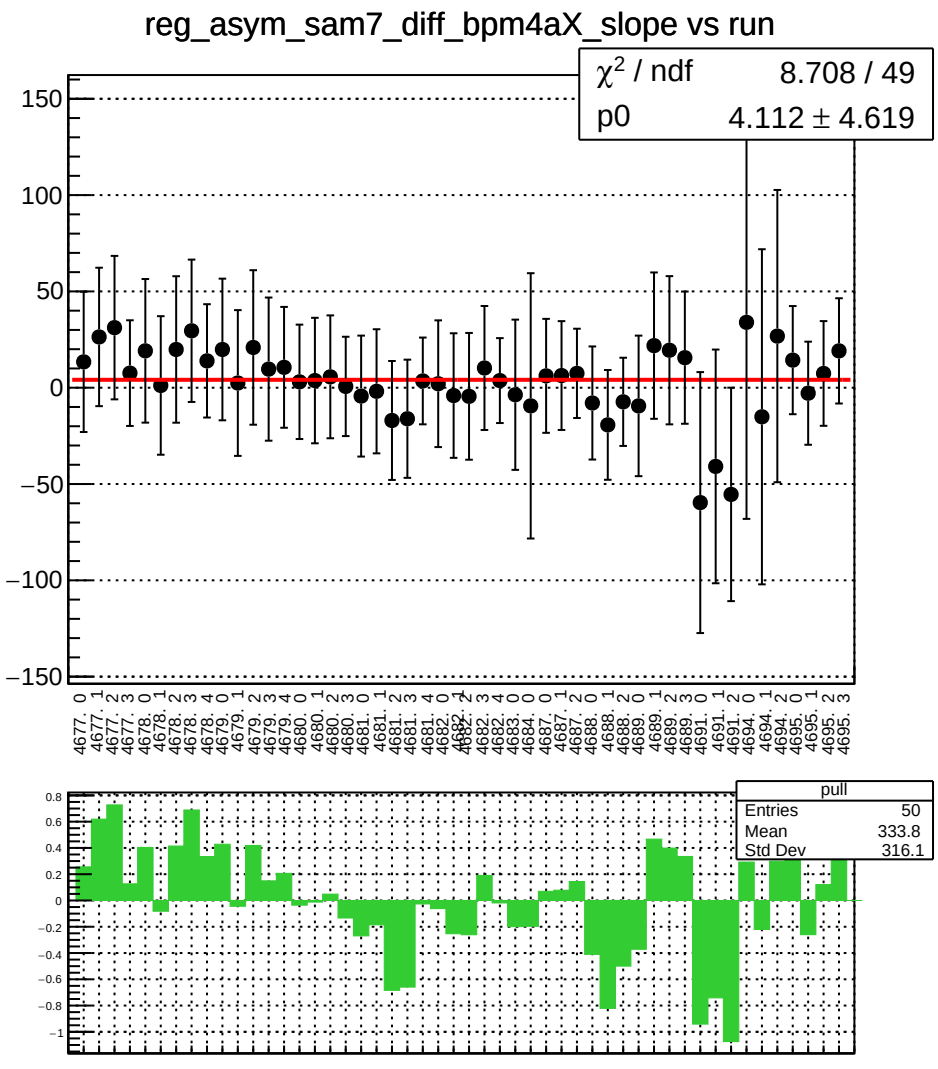

pull1D
Entries 50
Mean 0.1464
Std Dev 1.744

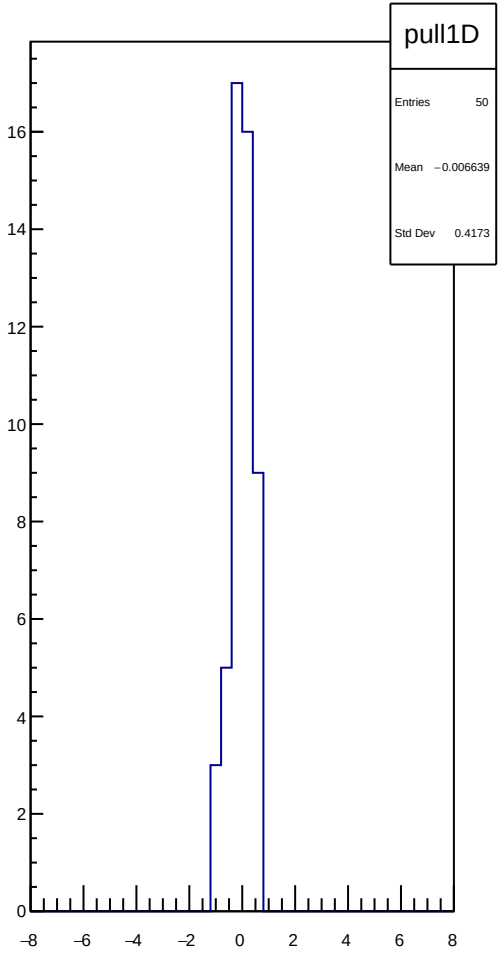

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 14.47 / 49
p0 −165.3 ± 7.528
pull
Entries 50
Mean 130.5
Std Dev 111

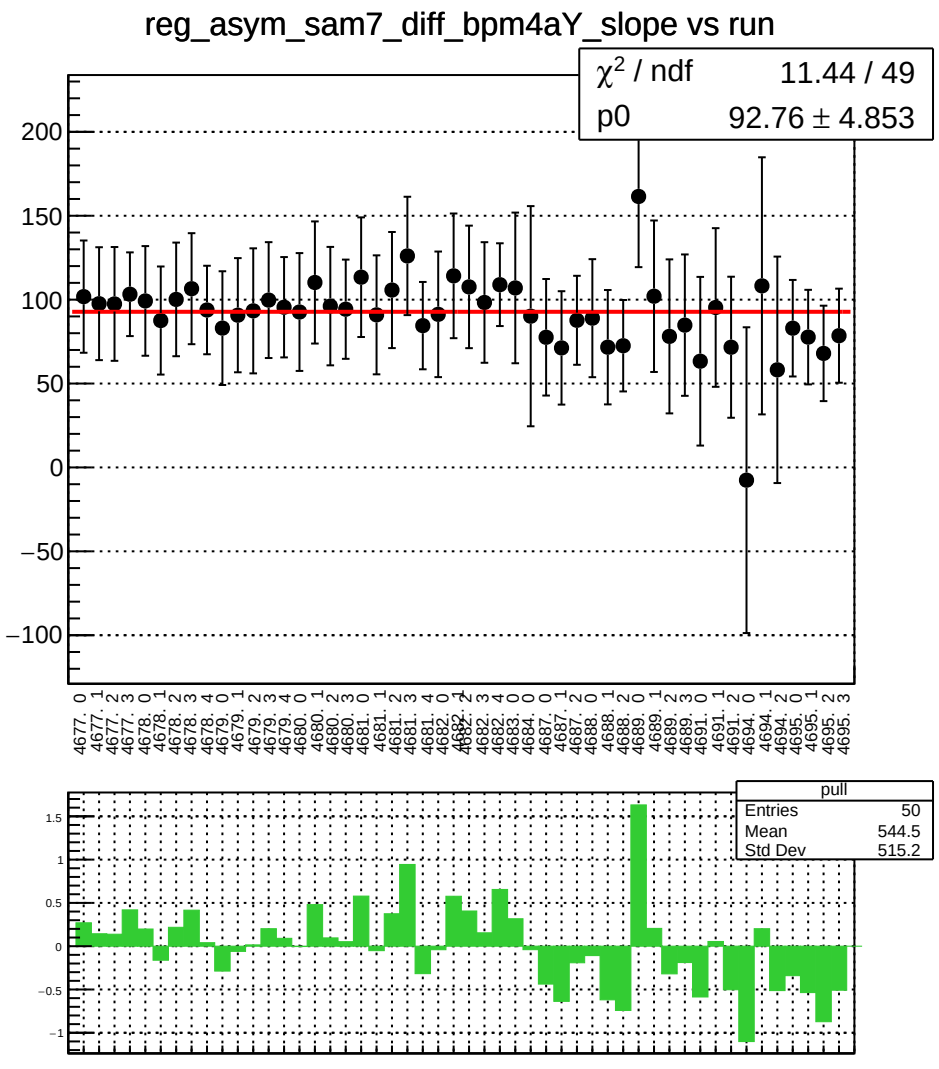

pull1D
Entries 50
Mean 0.02603
Std Dev 0.5373

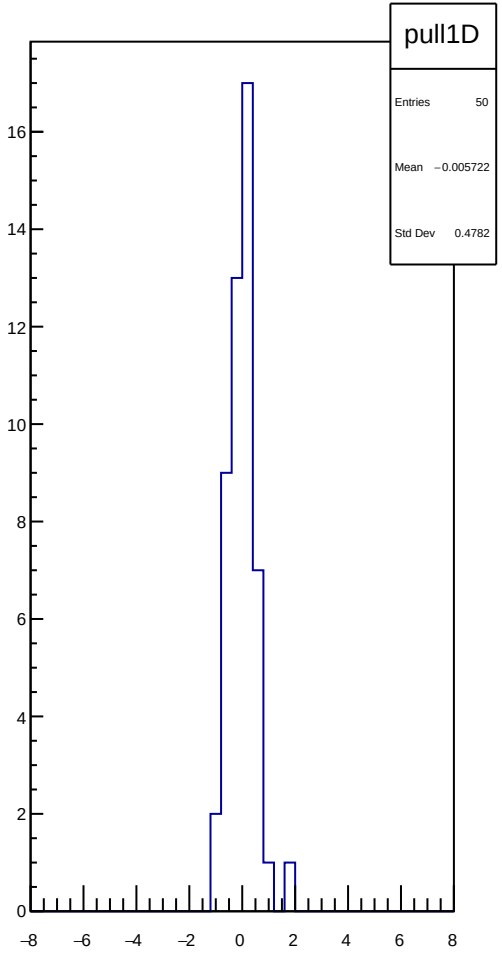

reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 88.92 / 49
p0 9.496 ± 0.8488
pull
Entries 50
Mean 122.3
Std Dev 115.6

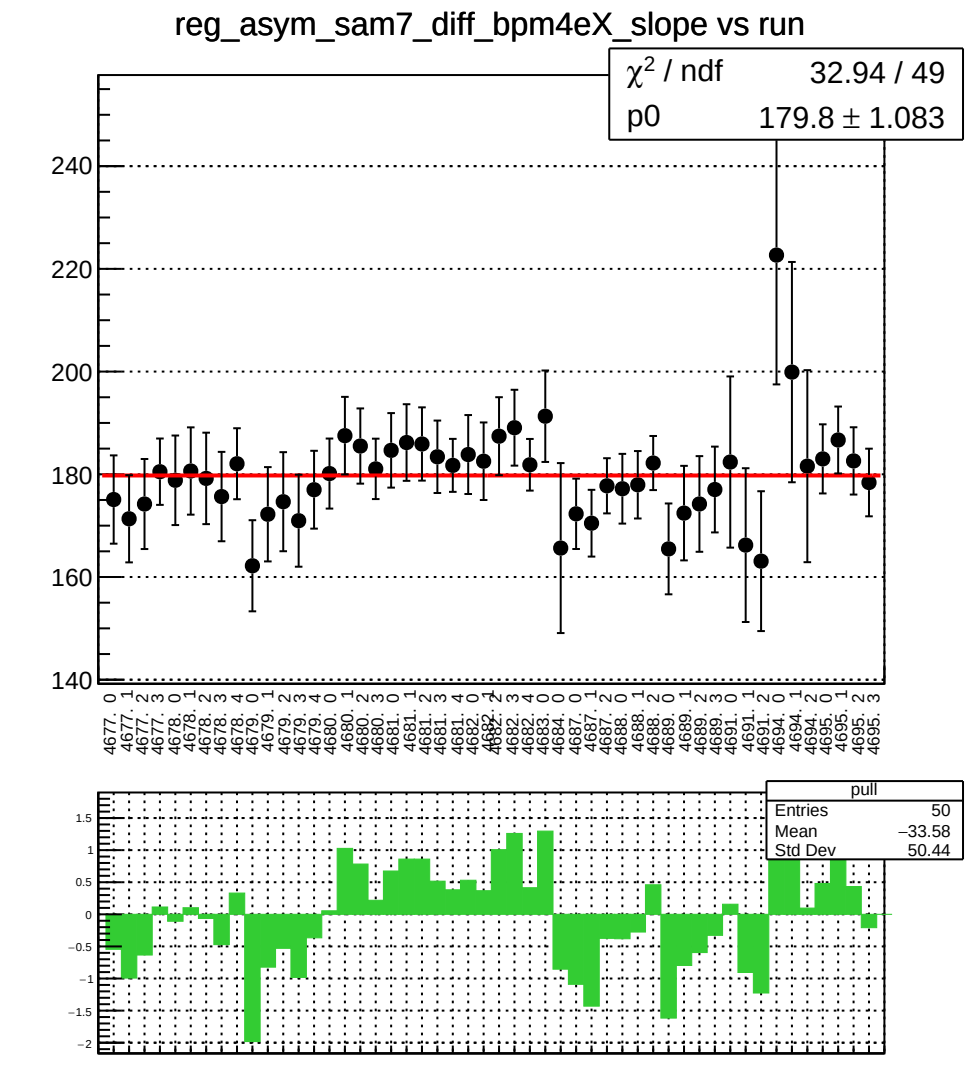

pull1D
Entries 50
Mean −0.0464
Std Dev 1.333

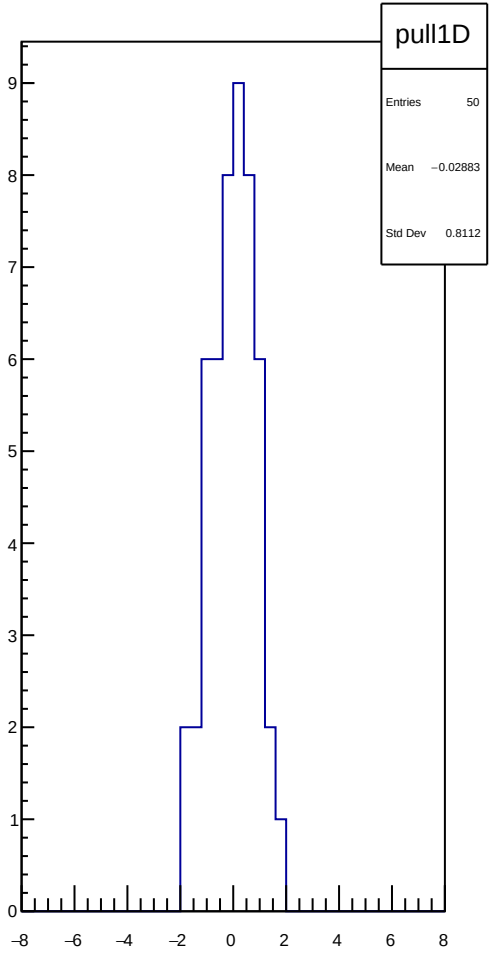

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 8.708 / 49
p0 4.112 ± 4.619
150
100
50
0
−50
−100
−150
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 333.8
Std Dev 316.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

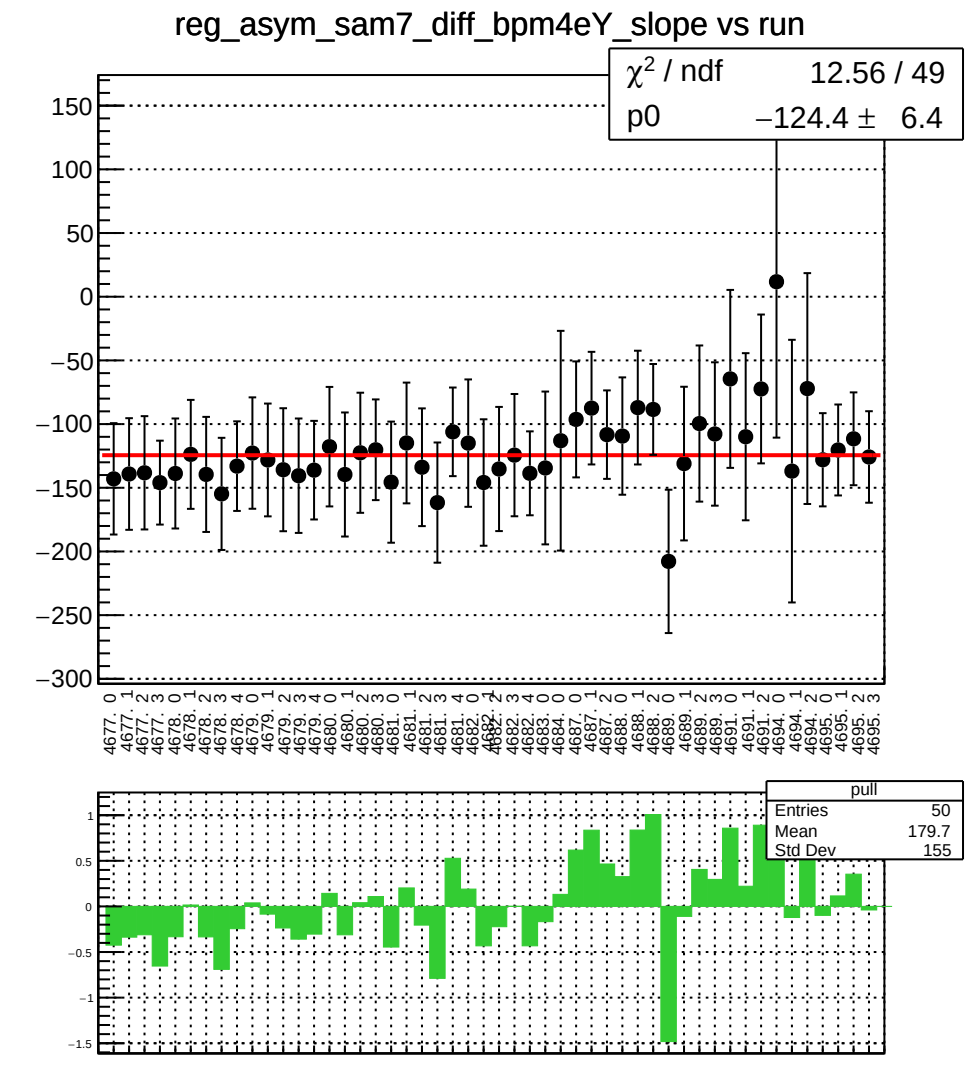

pull1D
Entries 50
Mean −0.006639
Std Dev 0.4173
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

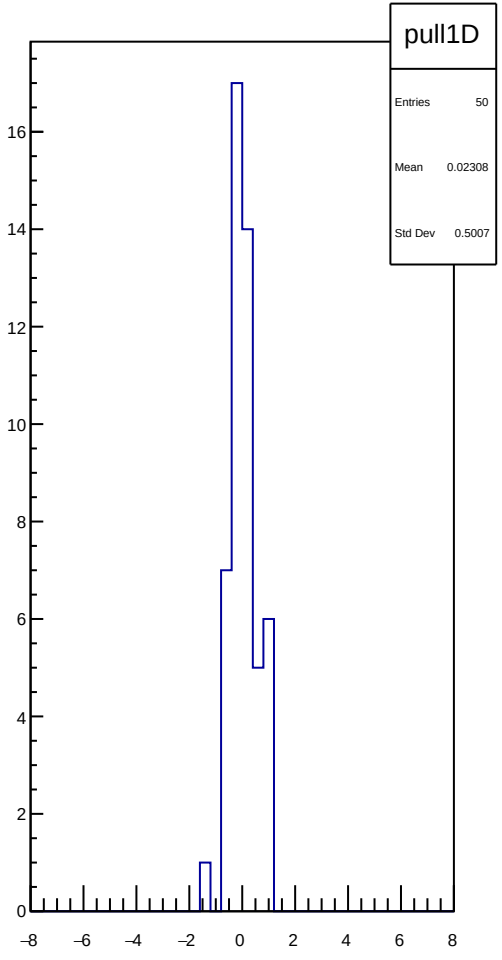

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 11.44 / 49
p0 92.76 ± 4.853
pull
Entries 50
Mean 544.5
Std Dev 515.2

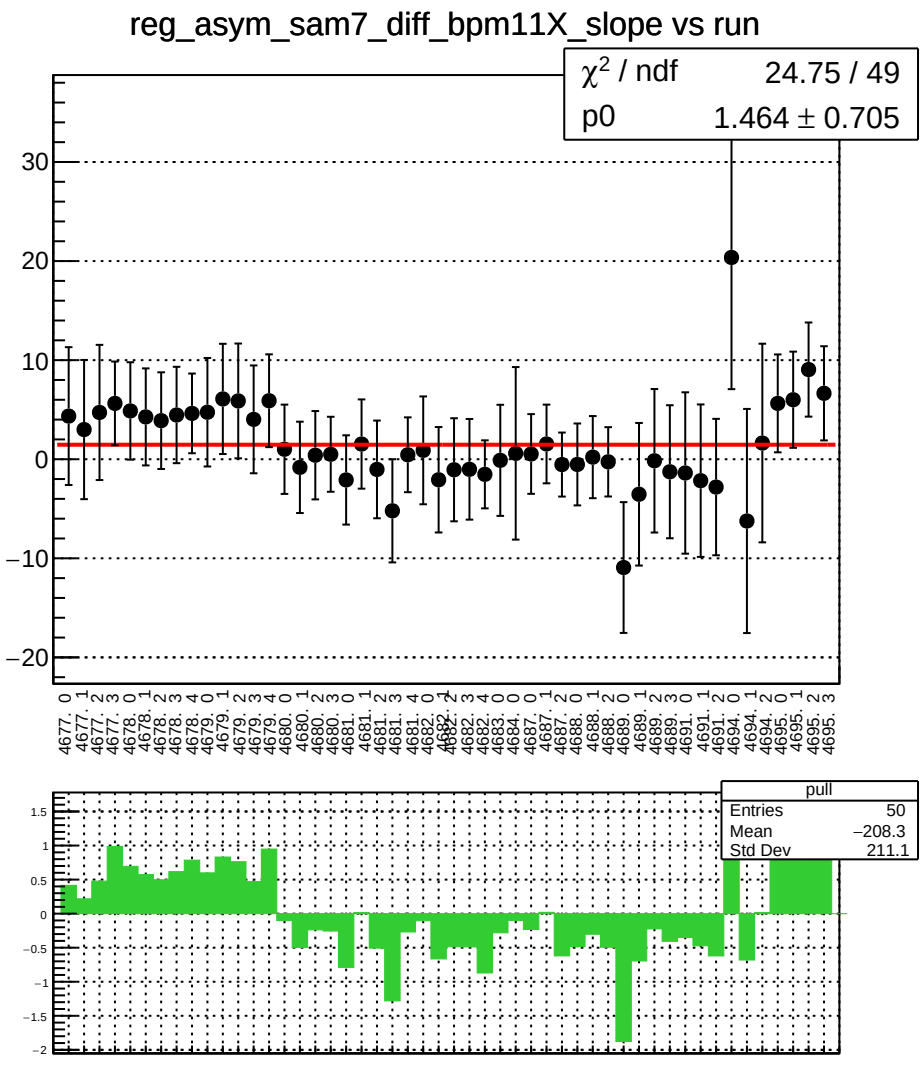

pull1D
Entries 50
Mean −0.005722
Std Dev 0.4782

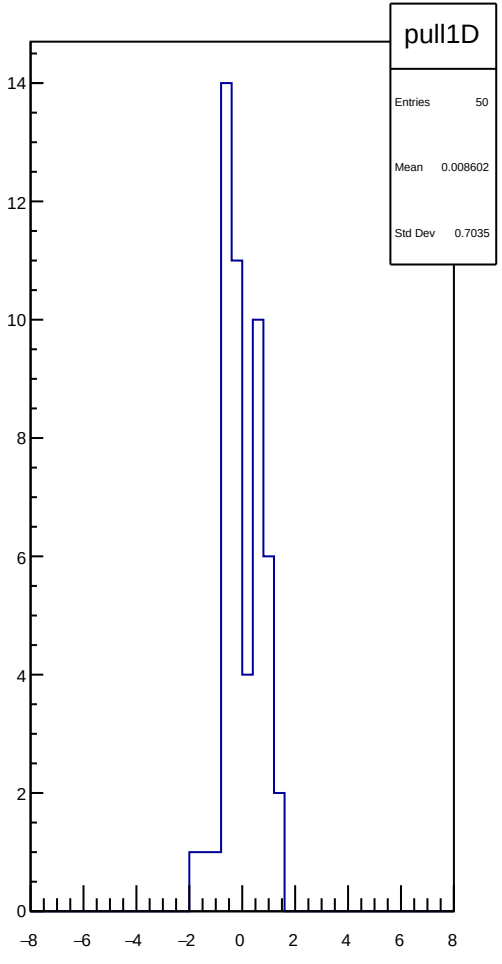

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 32.94 / 49
p0 179.8 ± 1.083
240
220
200
180
160
140
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean −33.58
Std Dev 50.44
1.5
1
0.5
0
−0.5
−1
−1.5
−2

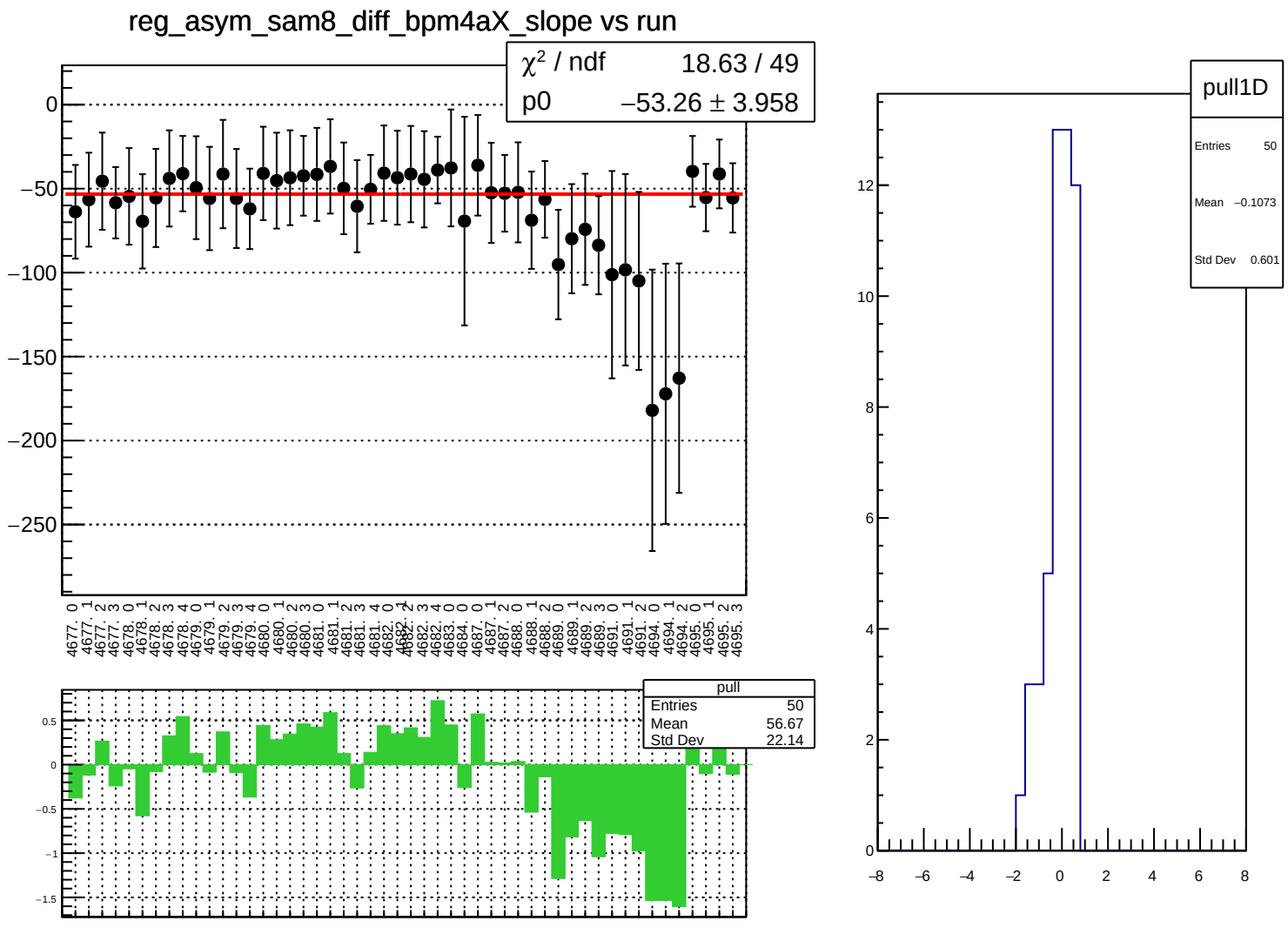

pull1D
Entries 50
Mean −0.02883
Std Dev 0.8112
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

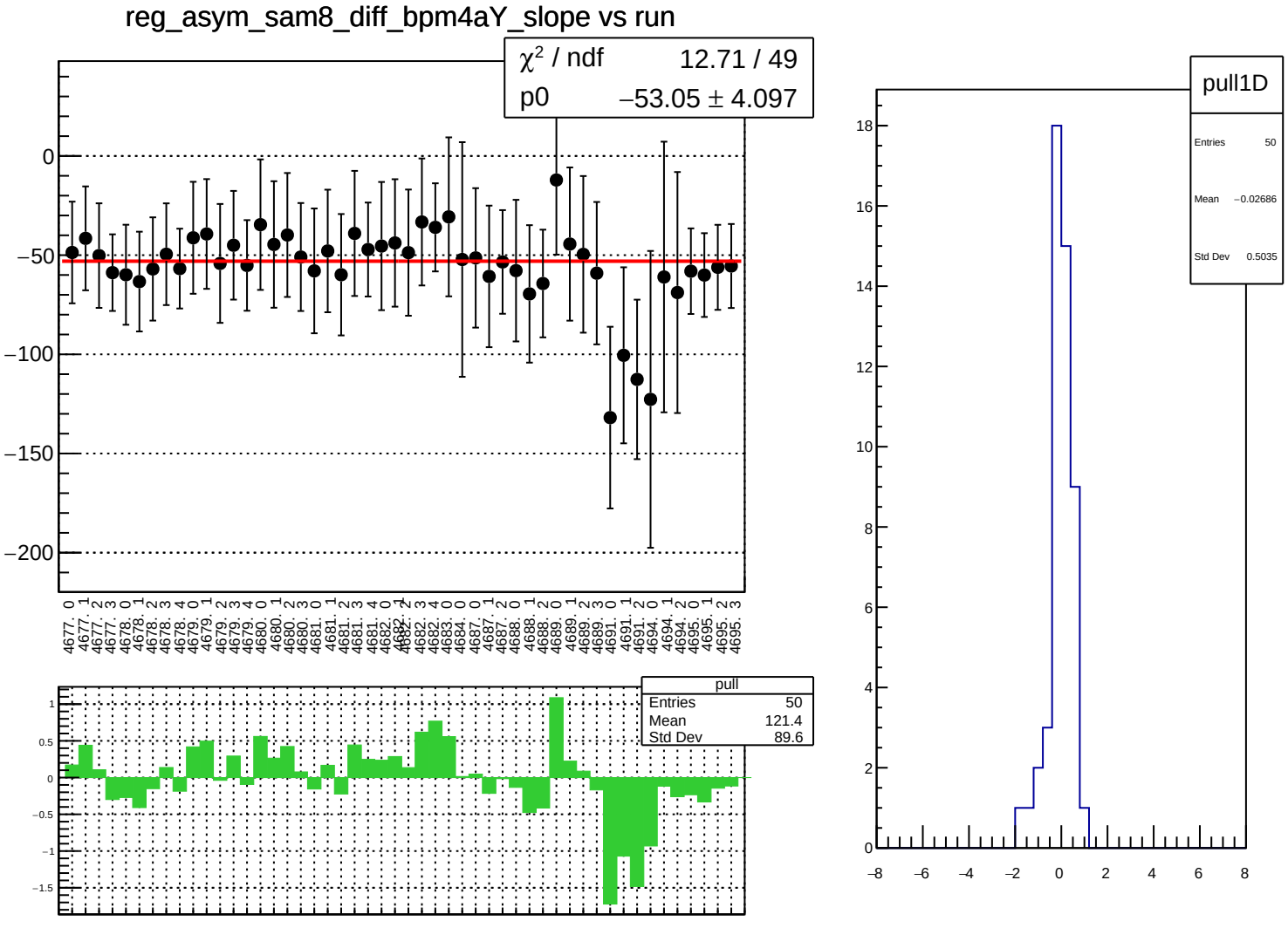

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 12.56 / 49
p0 −124.4 ± 6.4
pull
Entries 50
Mean 179.7
Std Dev 155

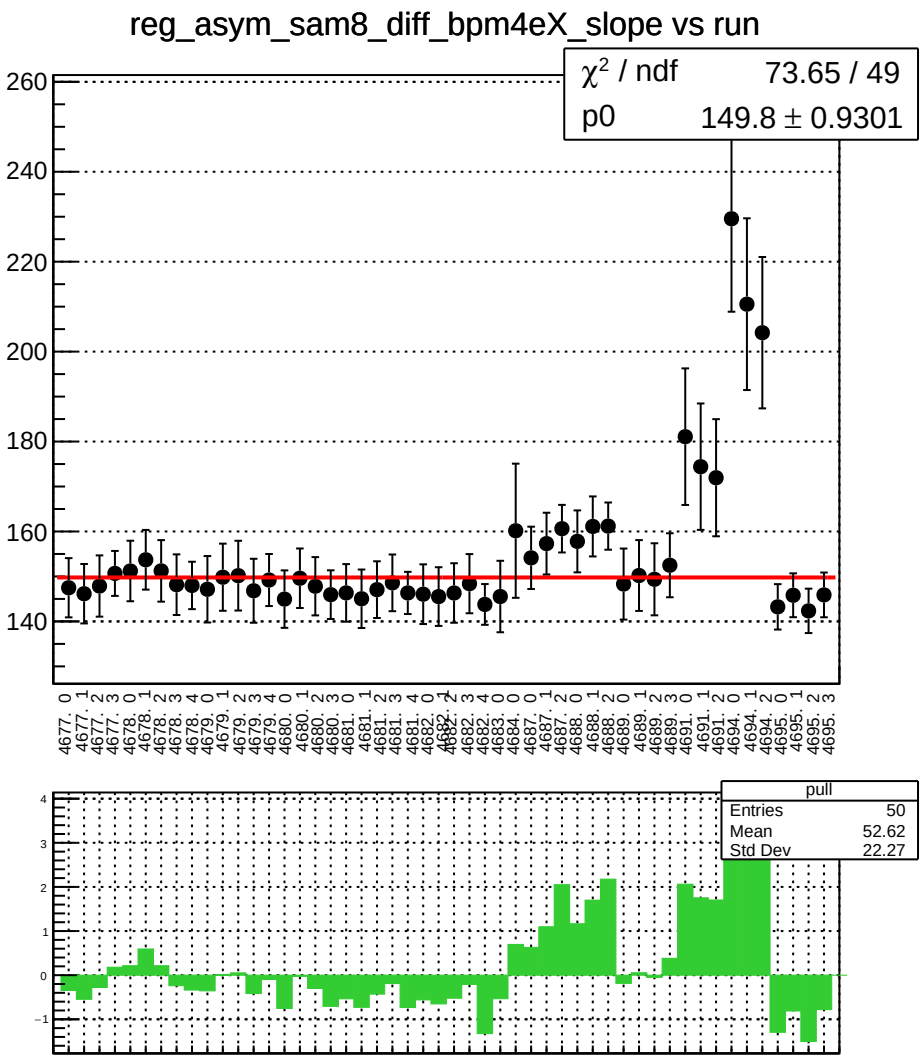

pull1D
Entries 50
Mean 0.02308
Std Dev 0.5007

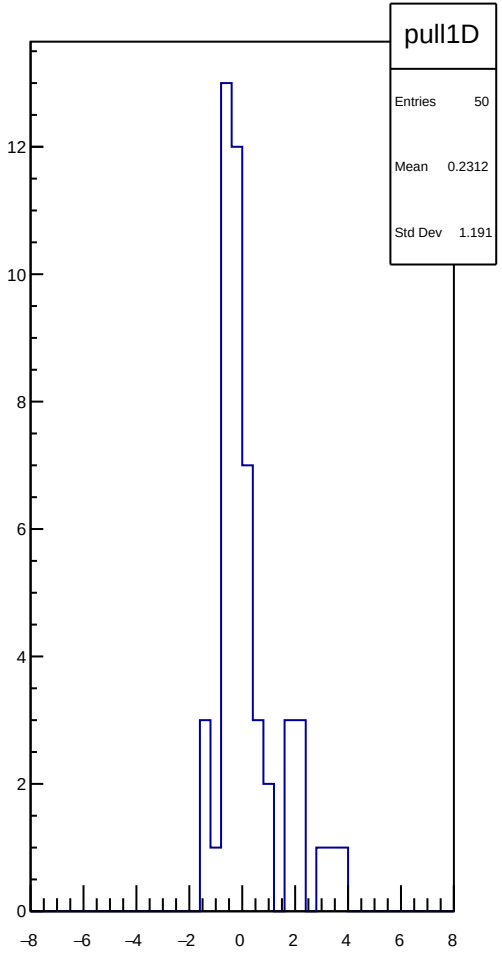

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 24.75 / 49
p0 1.464 ± 0.705
pull
Entries 50
Mean −208.3
Std Dev 211.1

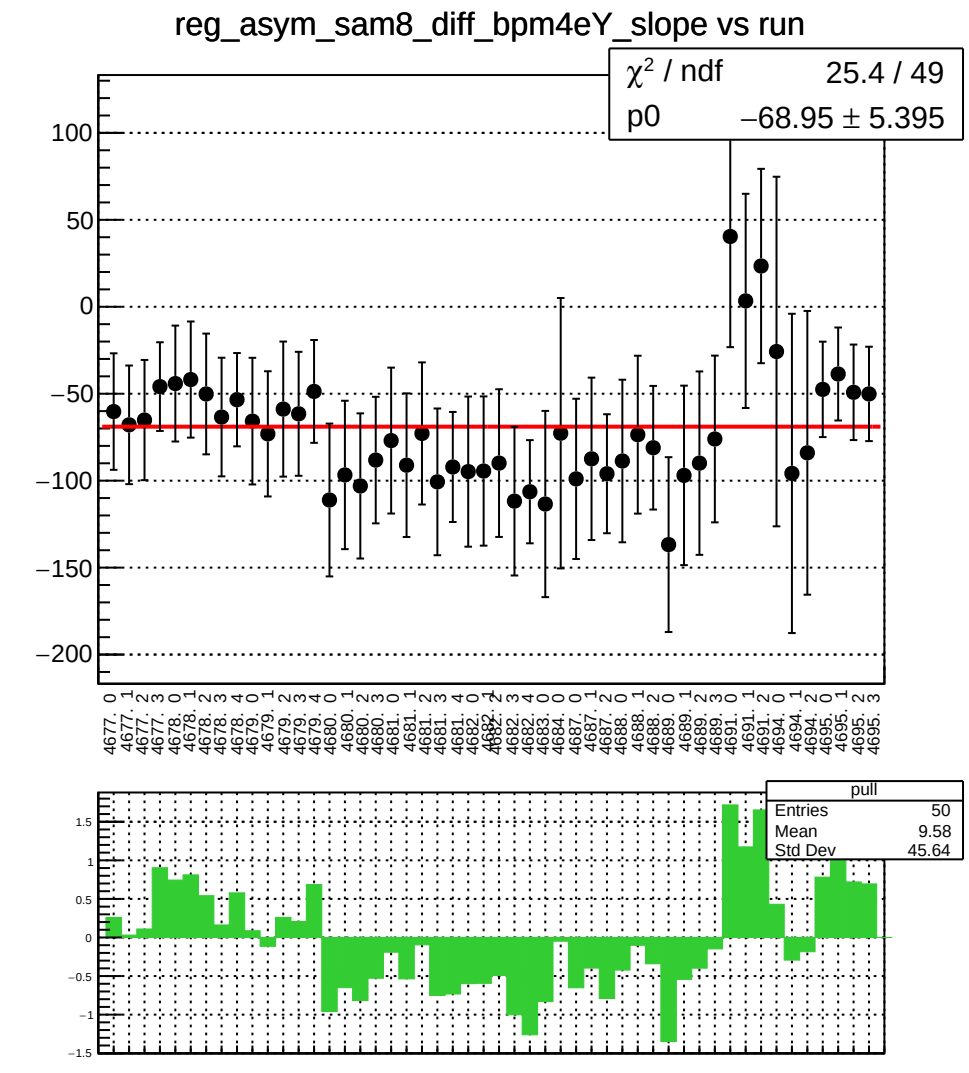

pull1D
Entries 50
Mean 0.008602
Std Dev 0.7035

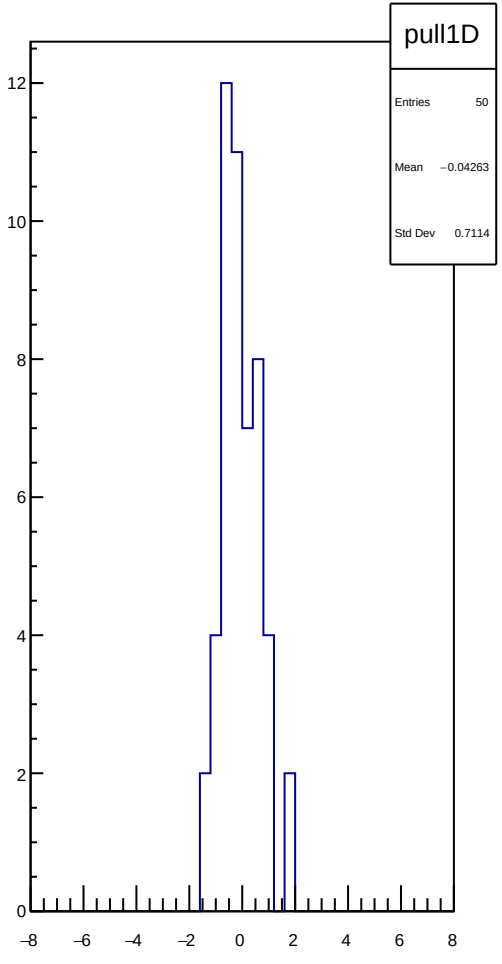

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 18.63 / 49
p0 −53.26 ± 3.958
0
−50
−100
−150
−200
−250
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 56.67
Std Dev 22.14
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean −0.1073
Std Dev 0.601
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

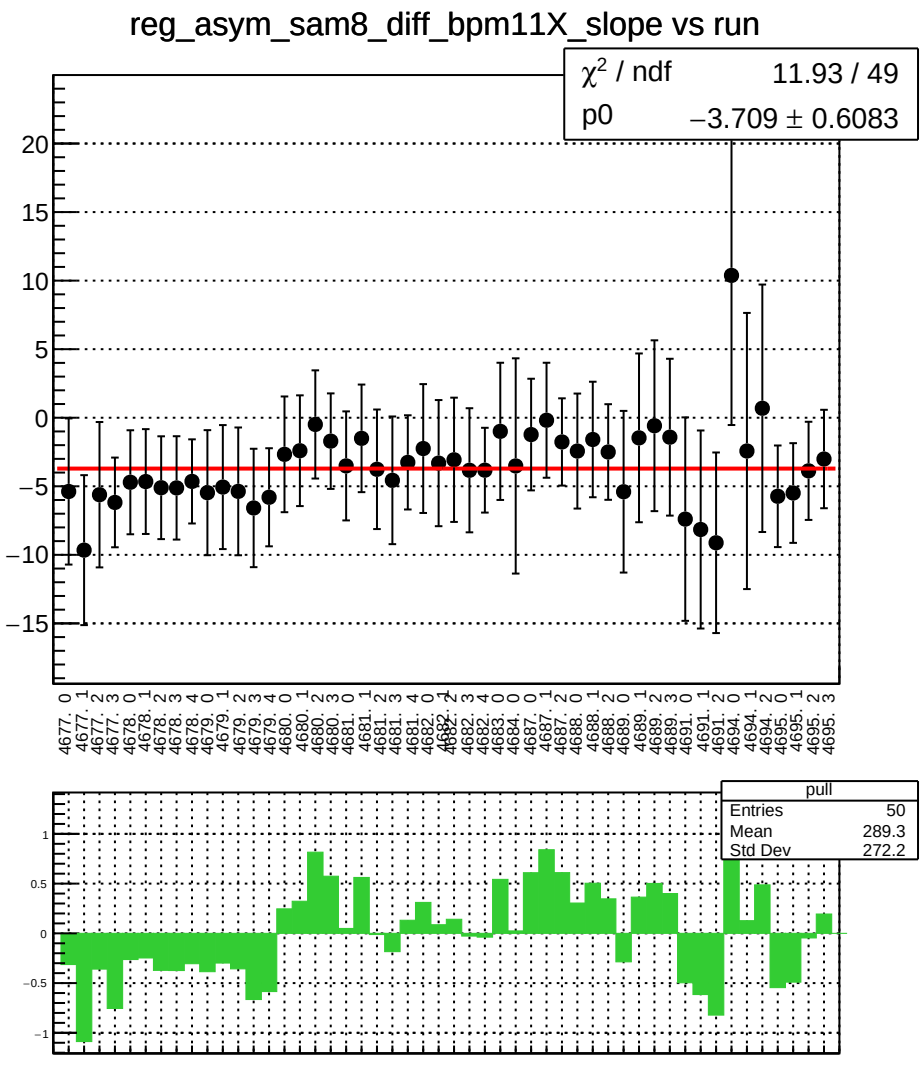

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 12.71 / 49
p0 −53.05 ± 4.097
0
−50
−100
−150
−200
pull
Entries 50
Mean 121.4
Std Dev 89.6
pull1D
Entries 50
Mean −0.02686
Std Dev 0.5035

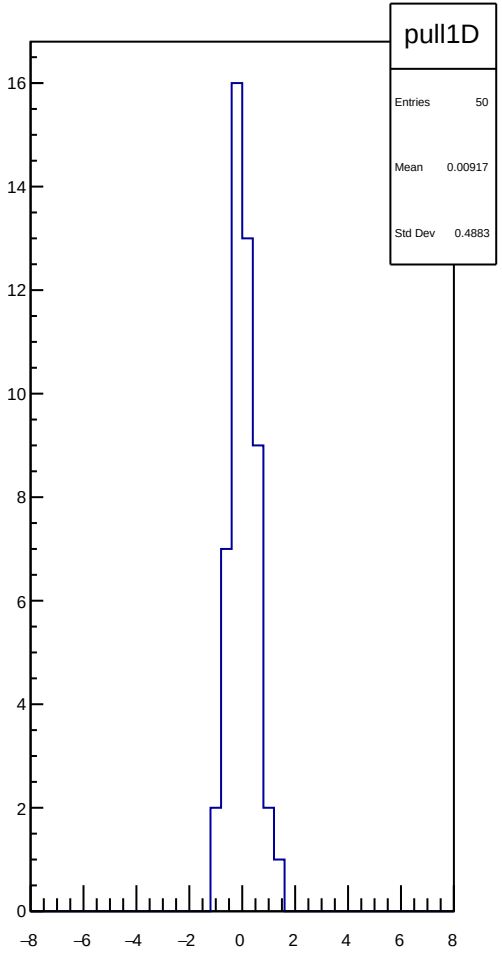

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 73.65 / 49
p0 149.8 ± 0.9301
pull
Entries 50
Mean 52.62
Std Dev 22.27

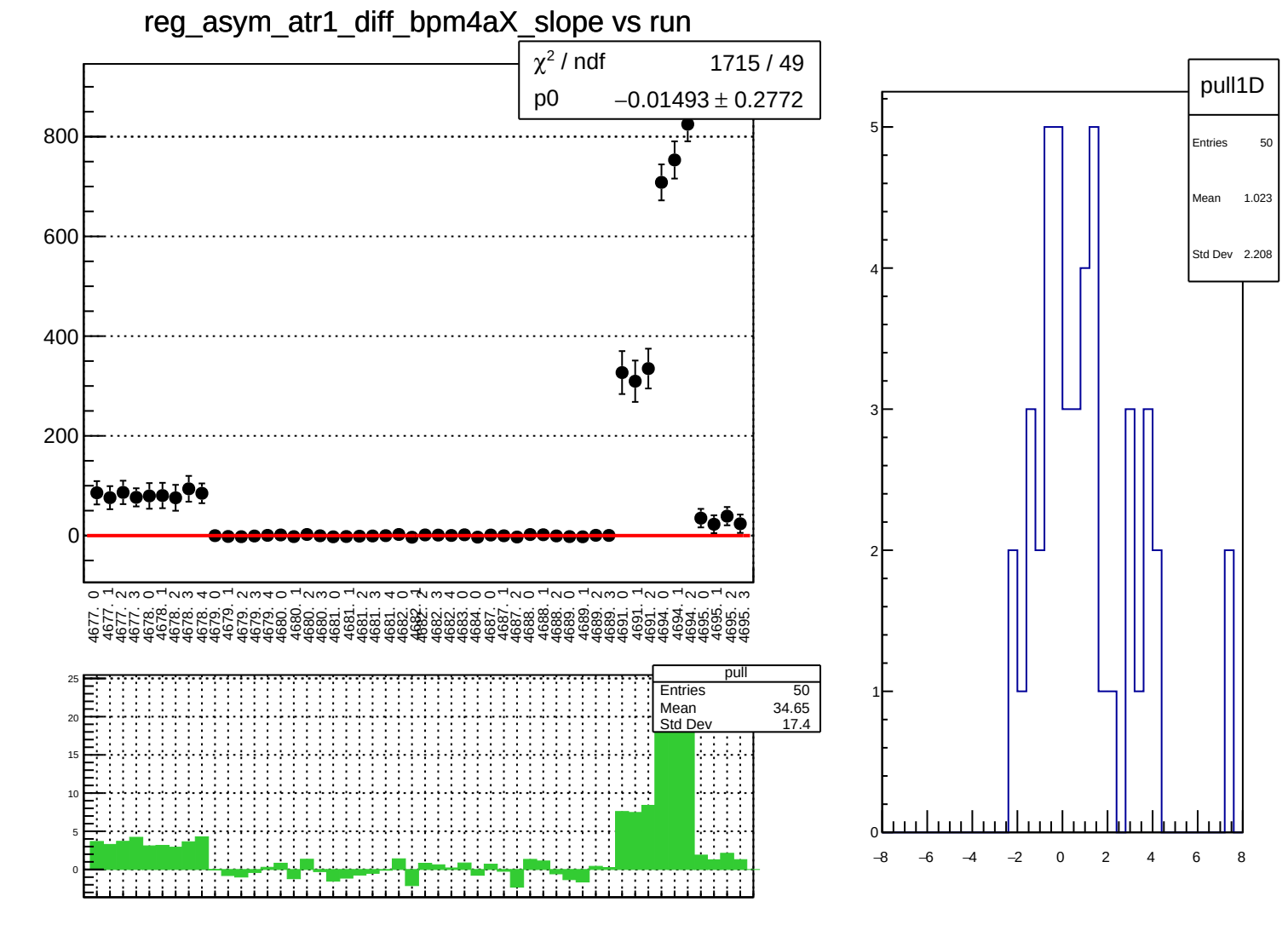

pull1D
Entries 50
Mean 0.2312
Std Dev 1.191

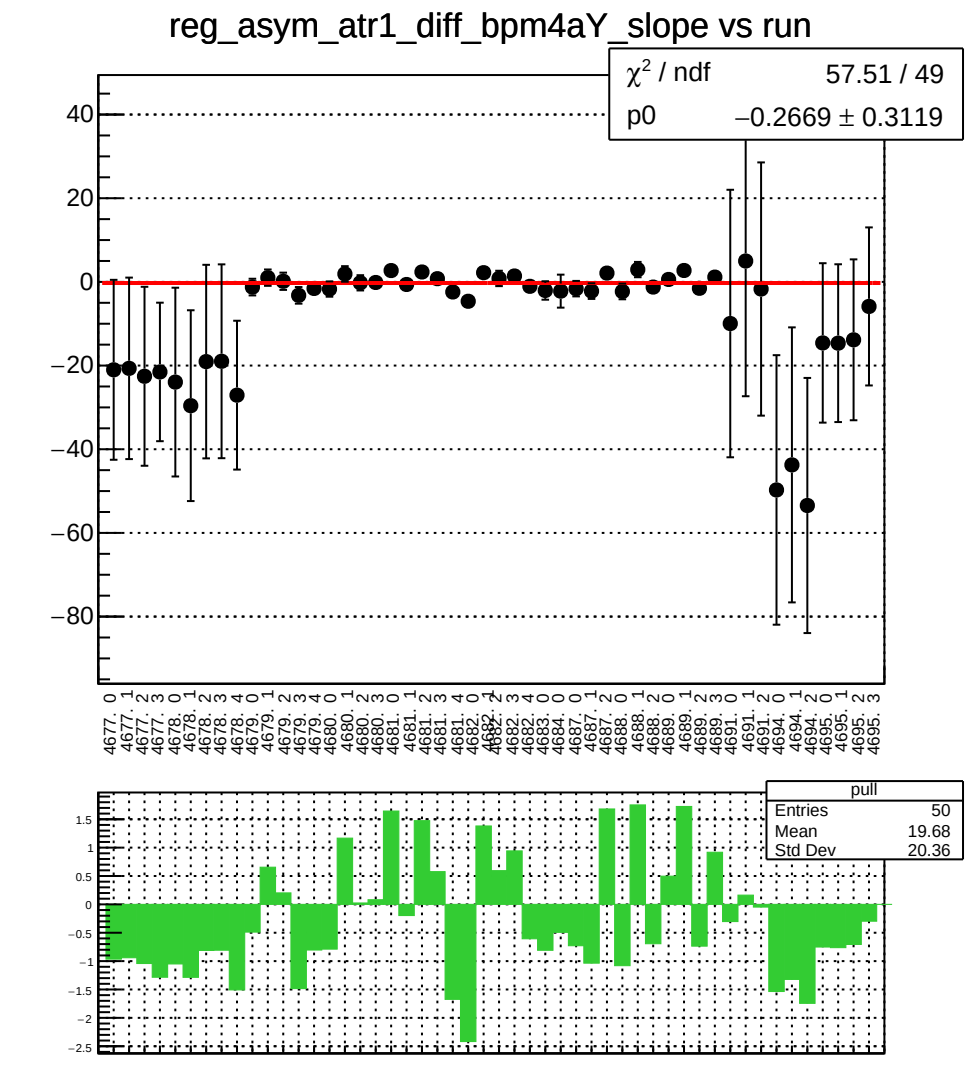

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 25.4 / 49
p0 −68.95 ± 5.395
pull
Entries 50
Mean 9.58
Std Dev 45.64

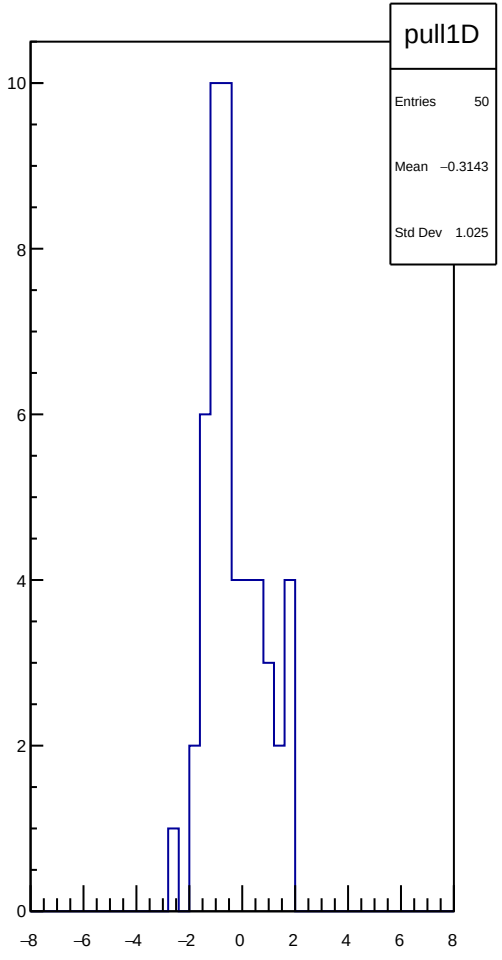

pull1D
Entries 50
Mean −0.04263
Std Dev 0.7114

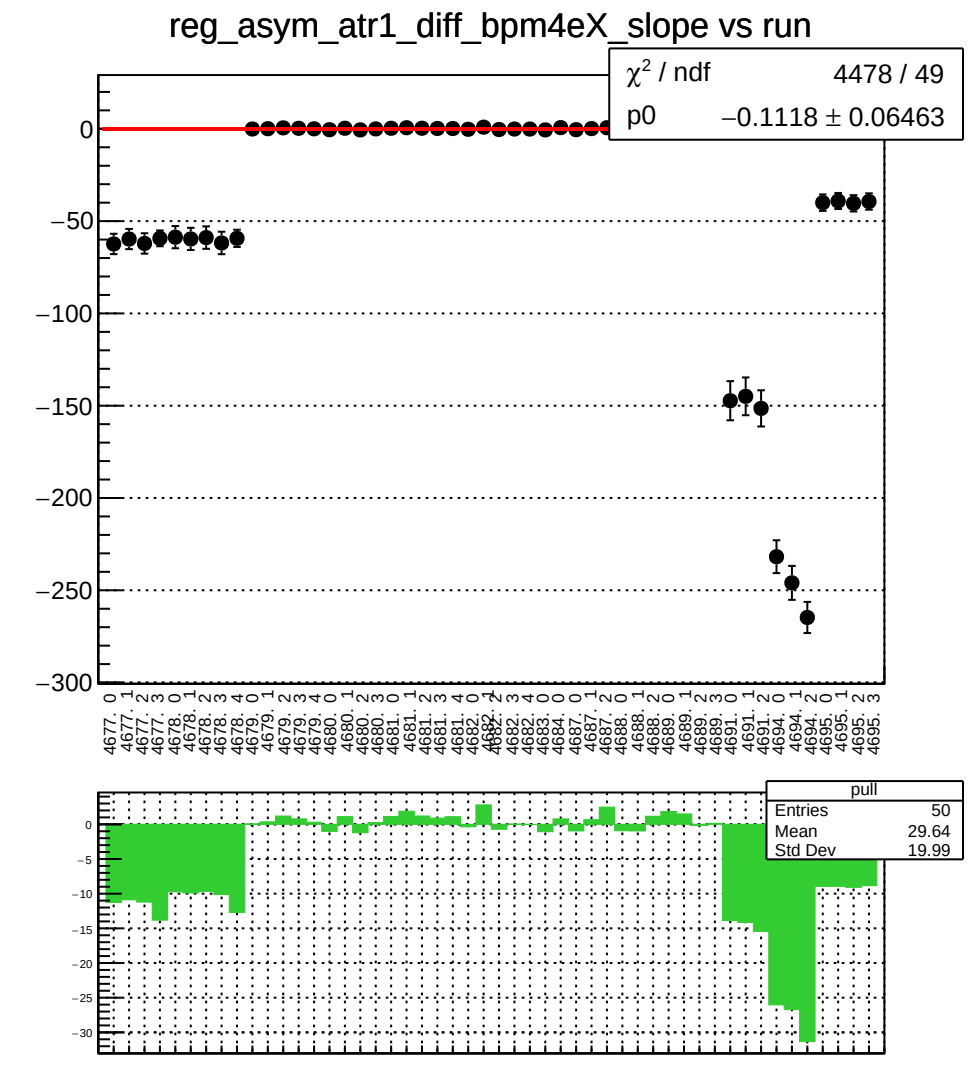

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 11.93 / 49
p0 −3.709 ± 0.6083
pull
Entries 50
Mean 289.3
Std Dev 272.2

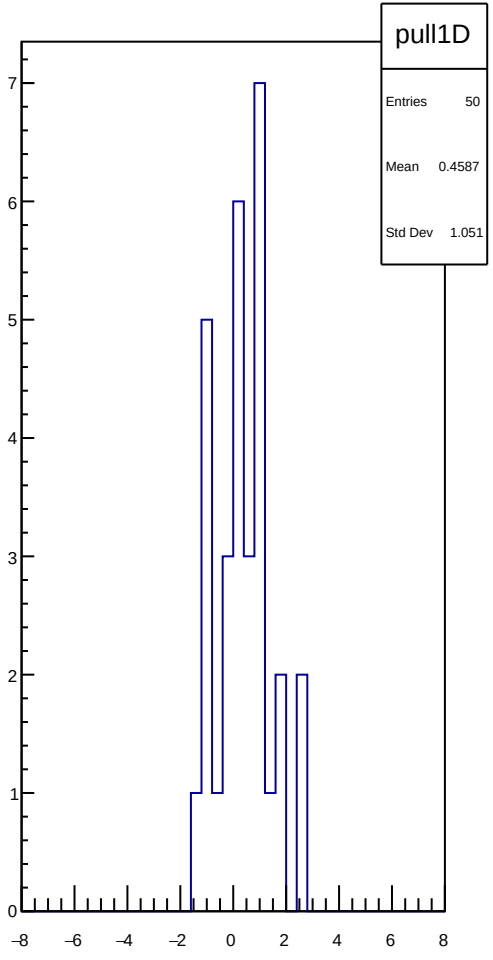

pull1D
Entries 50
Mean 0.00917
Std Dev 0.4883

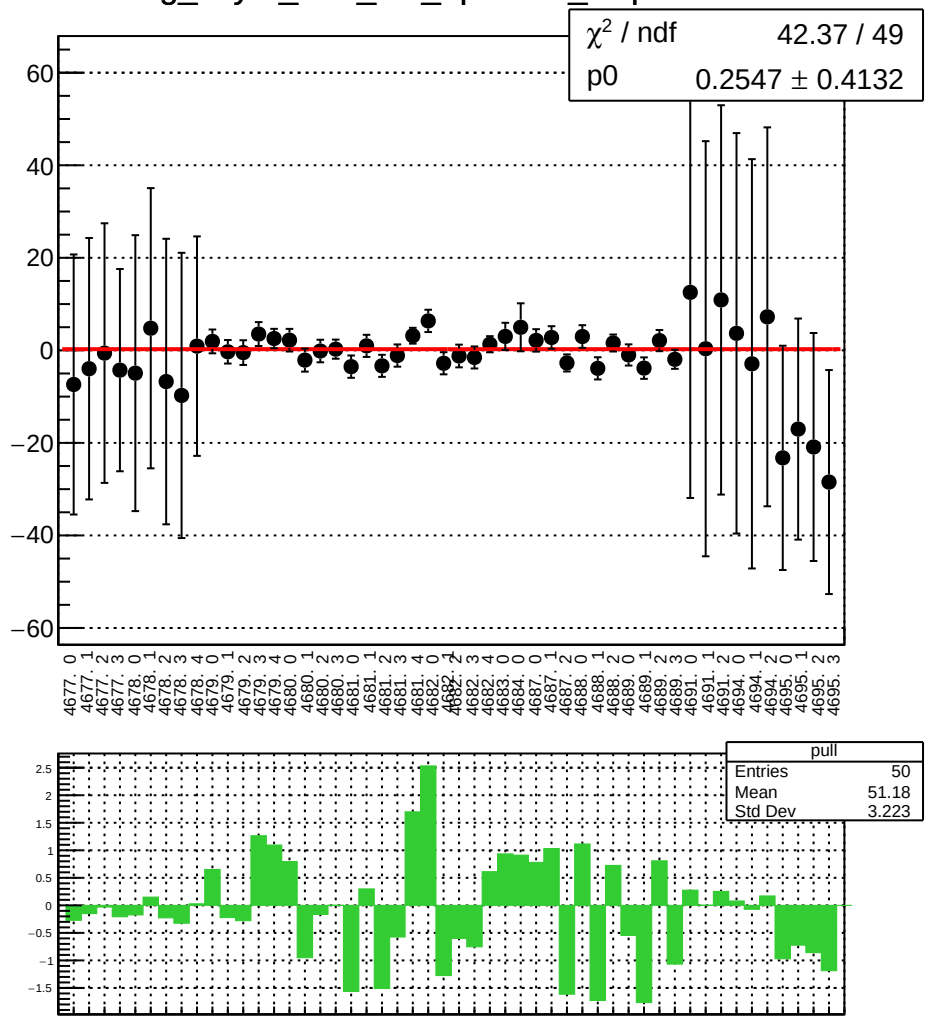

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 1715 / 49
p0 −0.01493 ± 0.2772
800
600
400
200
0
pull
Entries 50
Mean 34.65
Std Dev 17.4
25
20
15
10
5
0
pull1D
Entries 50
Mean 1.023
Std Dev 2.208
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

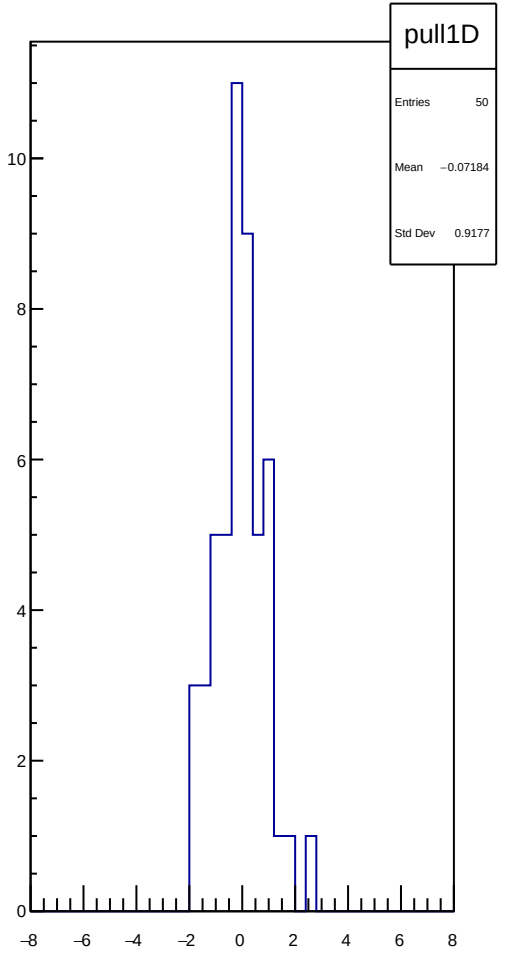

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 57.51 / 49
p0 −0.2669 ± 0.3119
pull
Entries 50
Mean 19.68
Std Dev 20.36

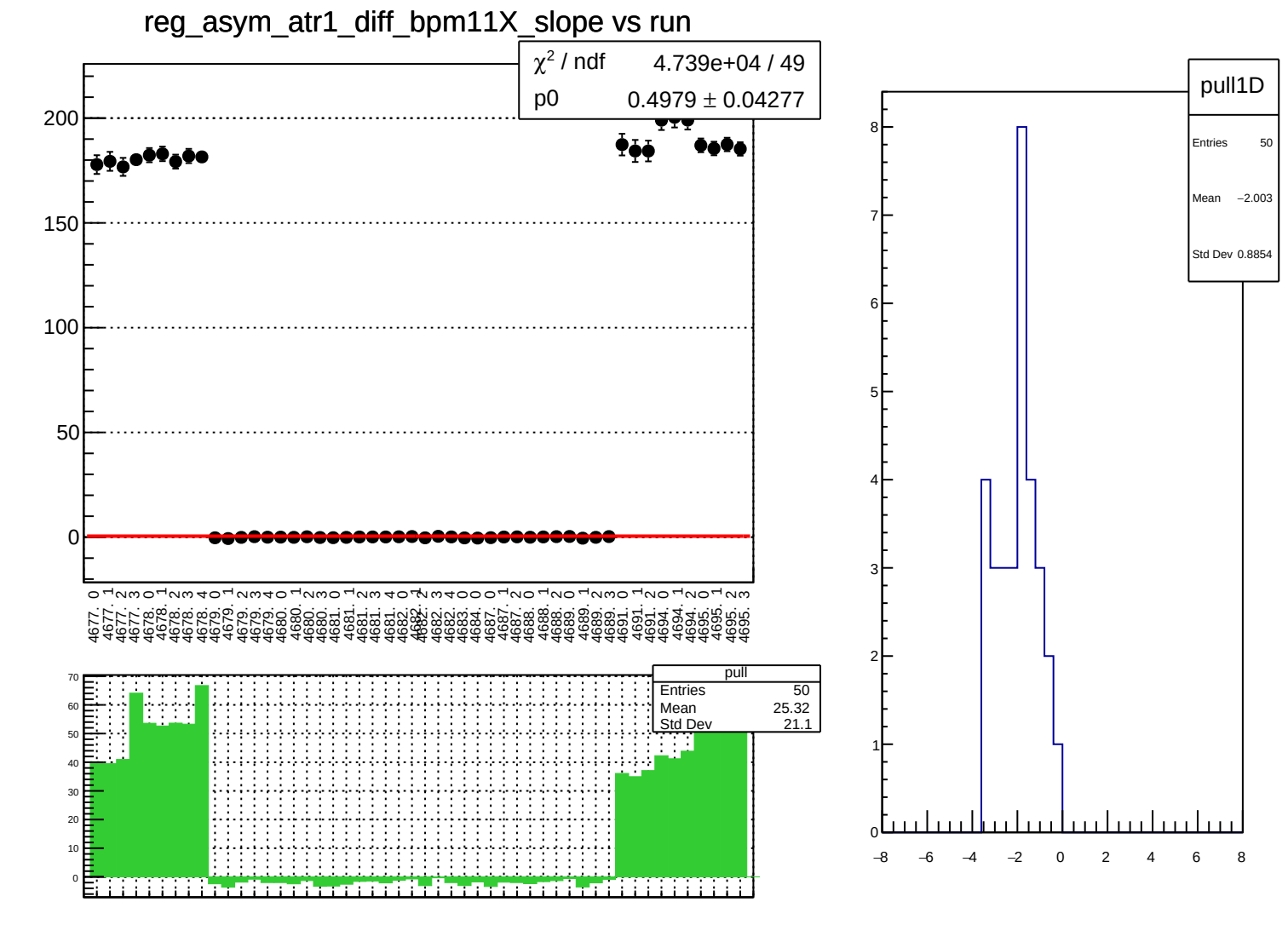

pull1D
Entries 50
Mean −0.3143
Std Dev 1.025

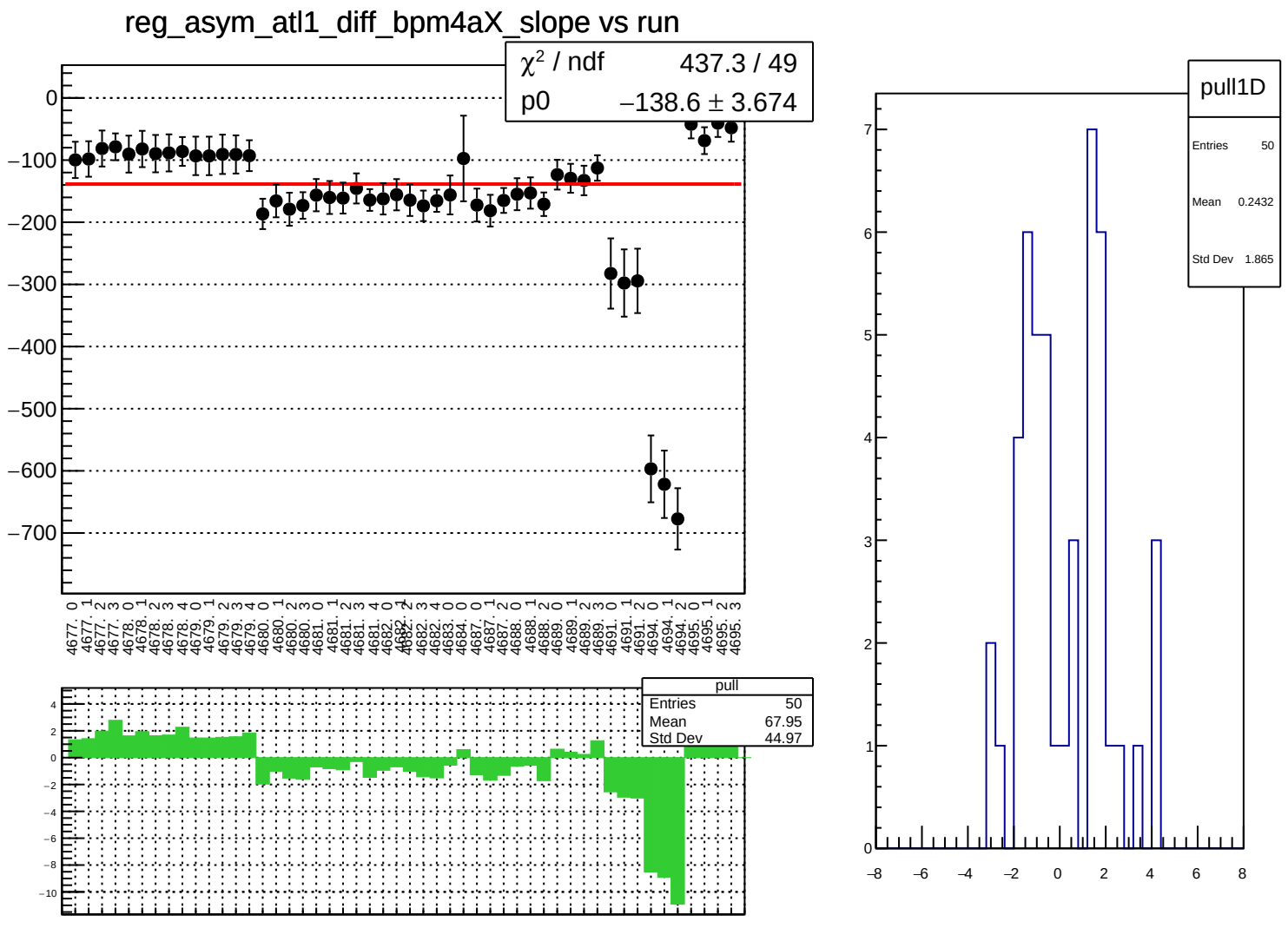

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 4478 / 49
p0 −0.1118 ± 0.06463
pull
Entries 50
Mean 29.64
Std Dev 19.99

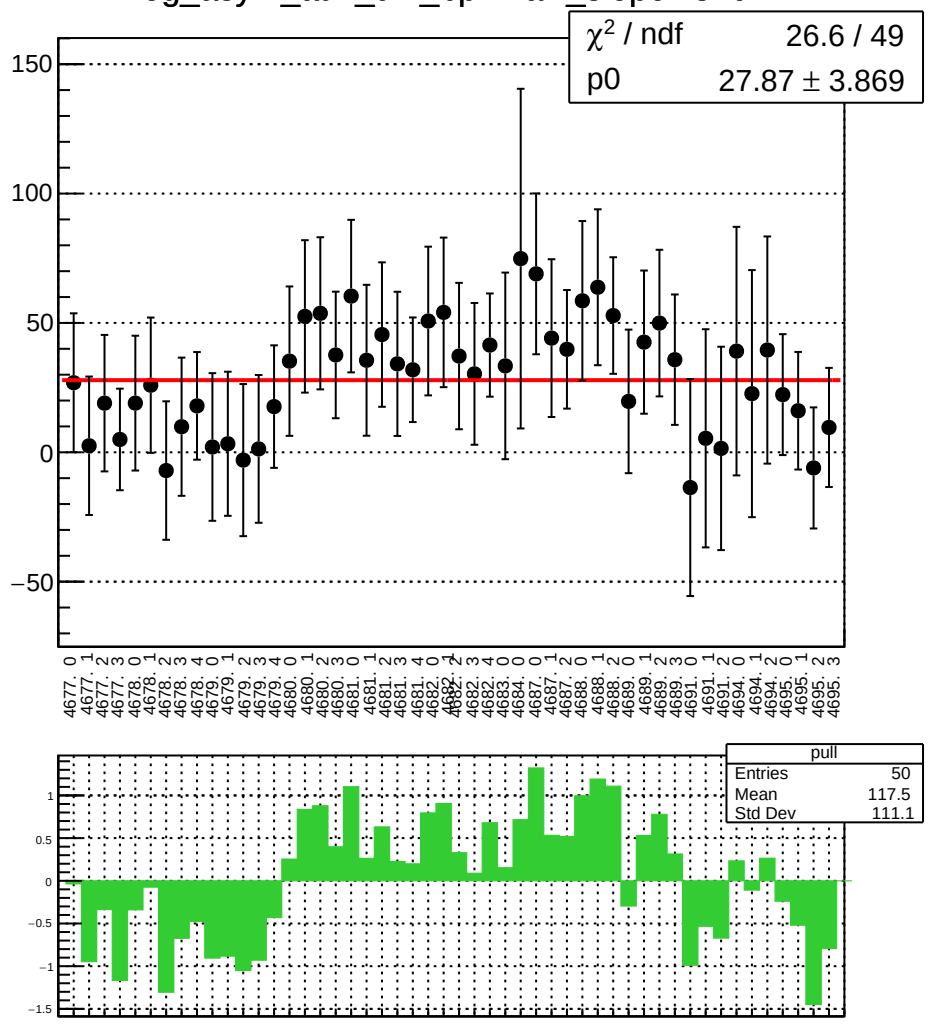

pull1D
Entries 50
Mean 0.4587
Std Dev 1.051

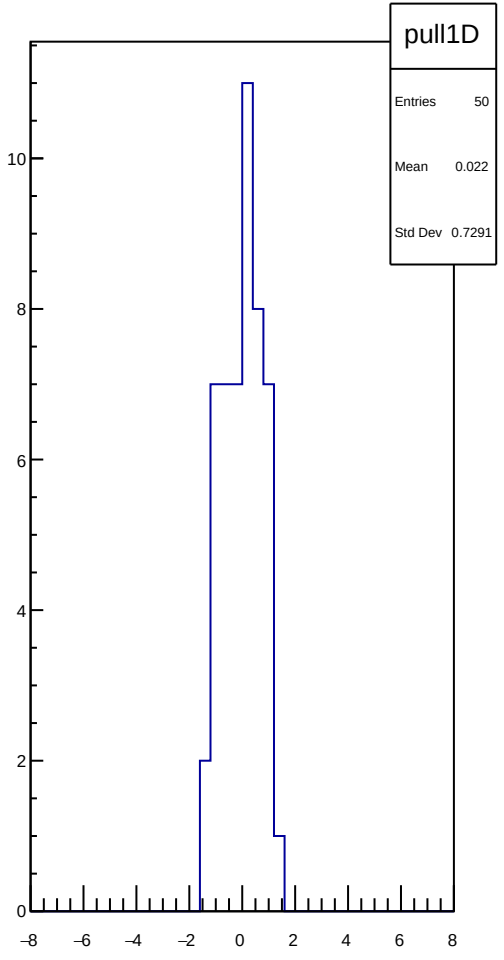

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 42.37 / 49
p0 0.2547 ± 0.4132
pull
Entries 50
Mean 51.18
Std Dev 3.223

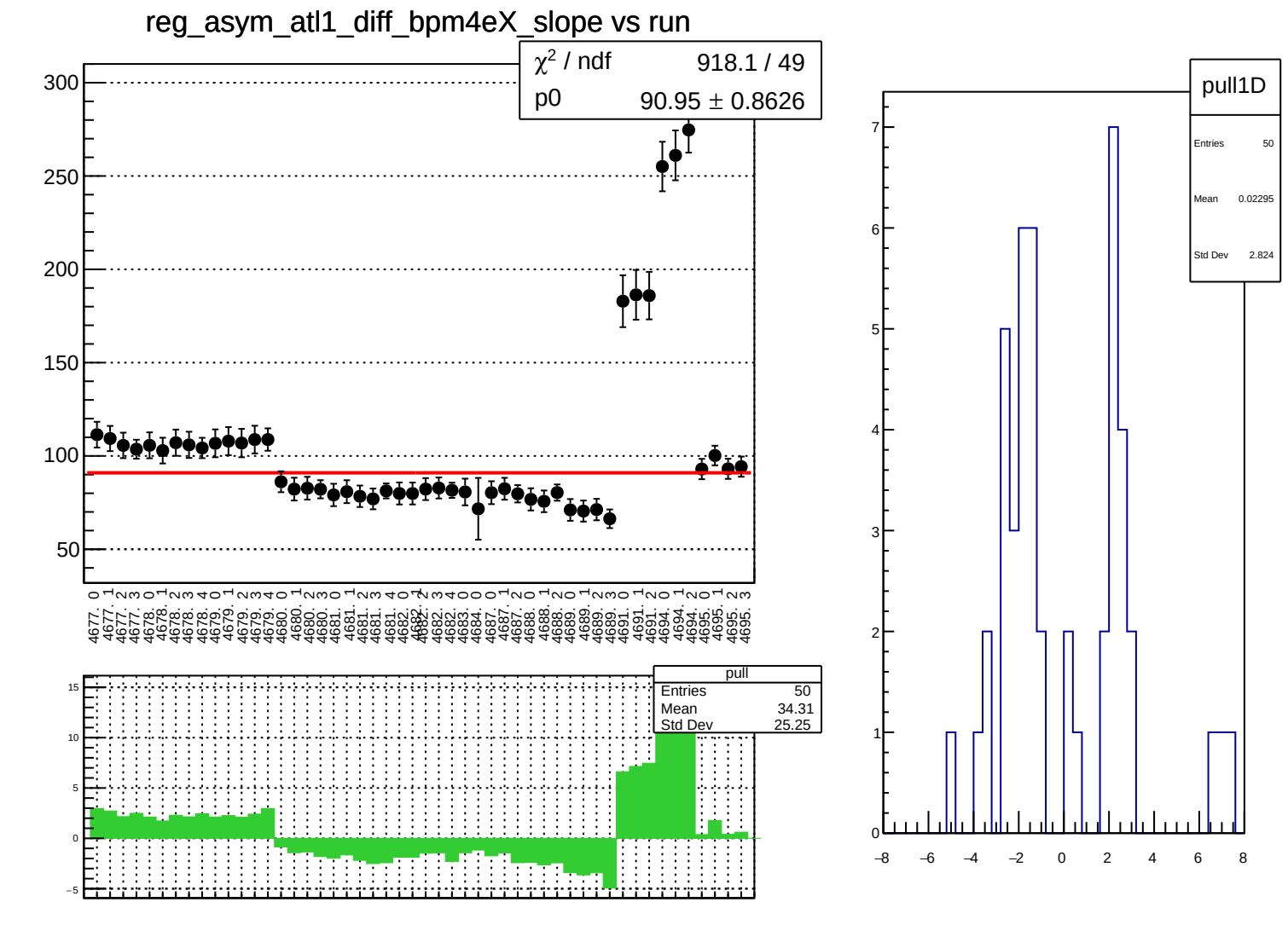

pull1D
Entries 50
Mean −0.07184
Std Dev 0.9177

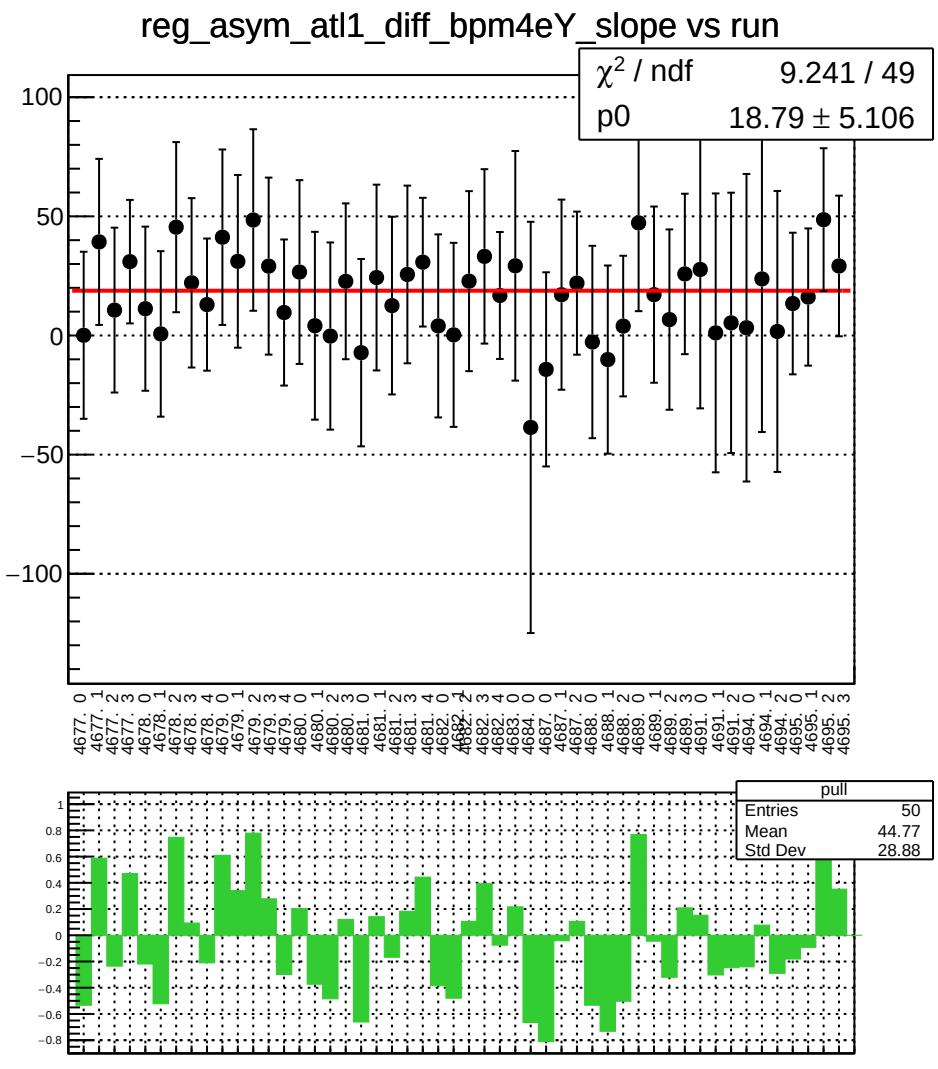

reg_asym_atr1_diff_bpm11X_slope vs run
χ² / ndf 4.739e+04 / 49
p0 0.4979 ± 0.04277
200
150
100
50
0
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 25.32
Std Dev 21.1
70
60
50
40
30
20
10
0
pull1D
Entries 50
Mean −2.003
Std Dev 0.8854
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

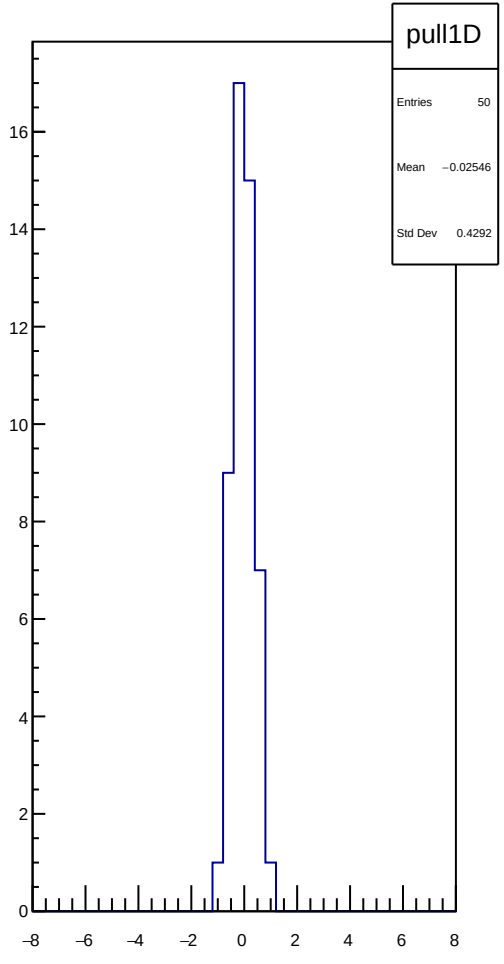

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 437.3 / 49
p0 −138.6 ± 3.674
pull
Entries 50
Mean 67.95
Std Dev 44.97
pull1D
Entries 50
Mean 0.2432
Std Dev 1.865

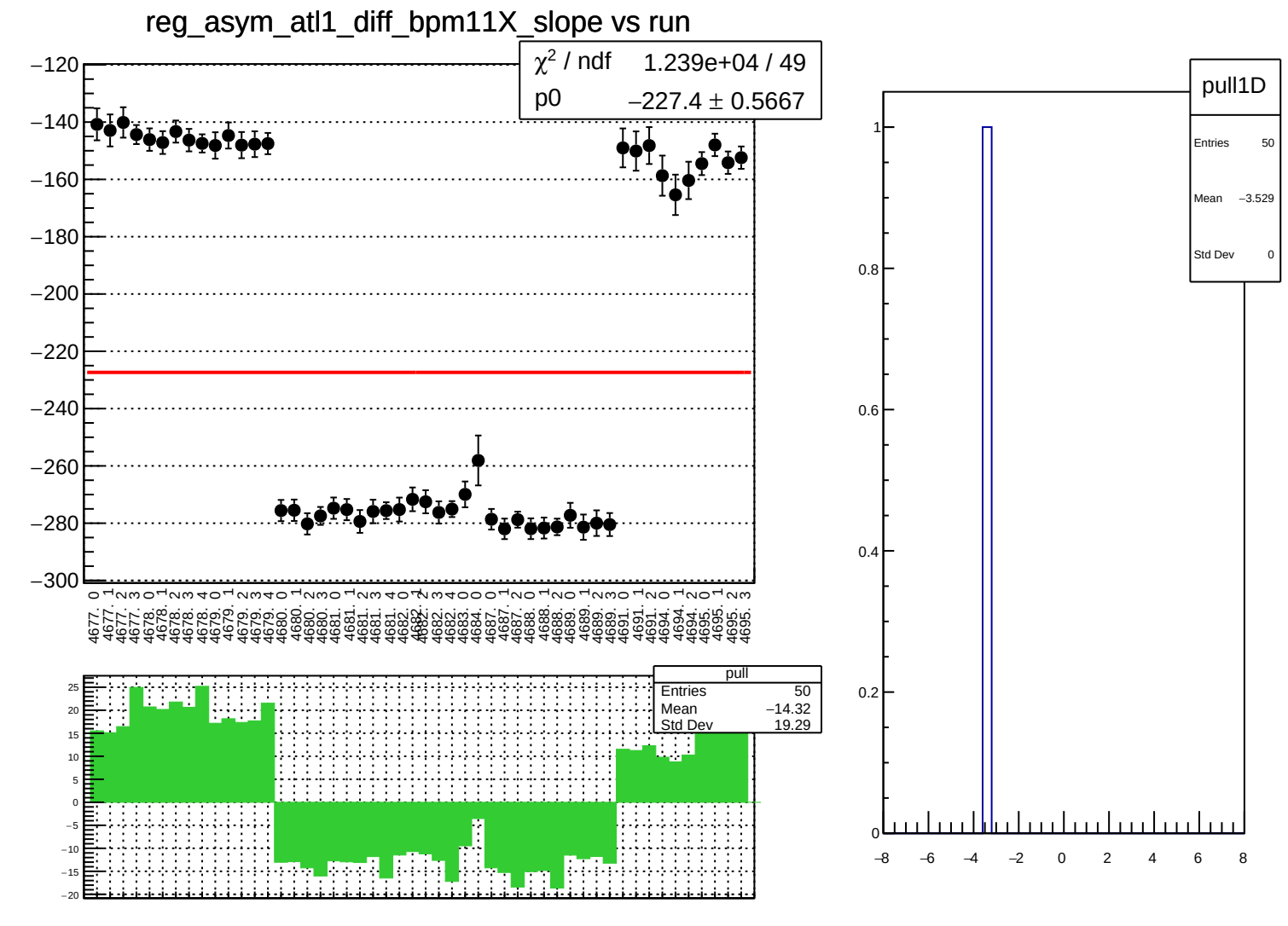

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 26.6 / 49
p0 27.87 ± 3.869
150
100
50
0
−50
pull
Entries 50
Mean 117.5
Std Dev 111.1
1
0.5
0
−0.5
−1
−1.5

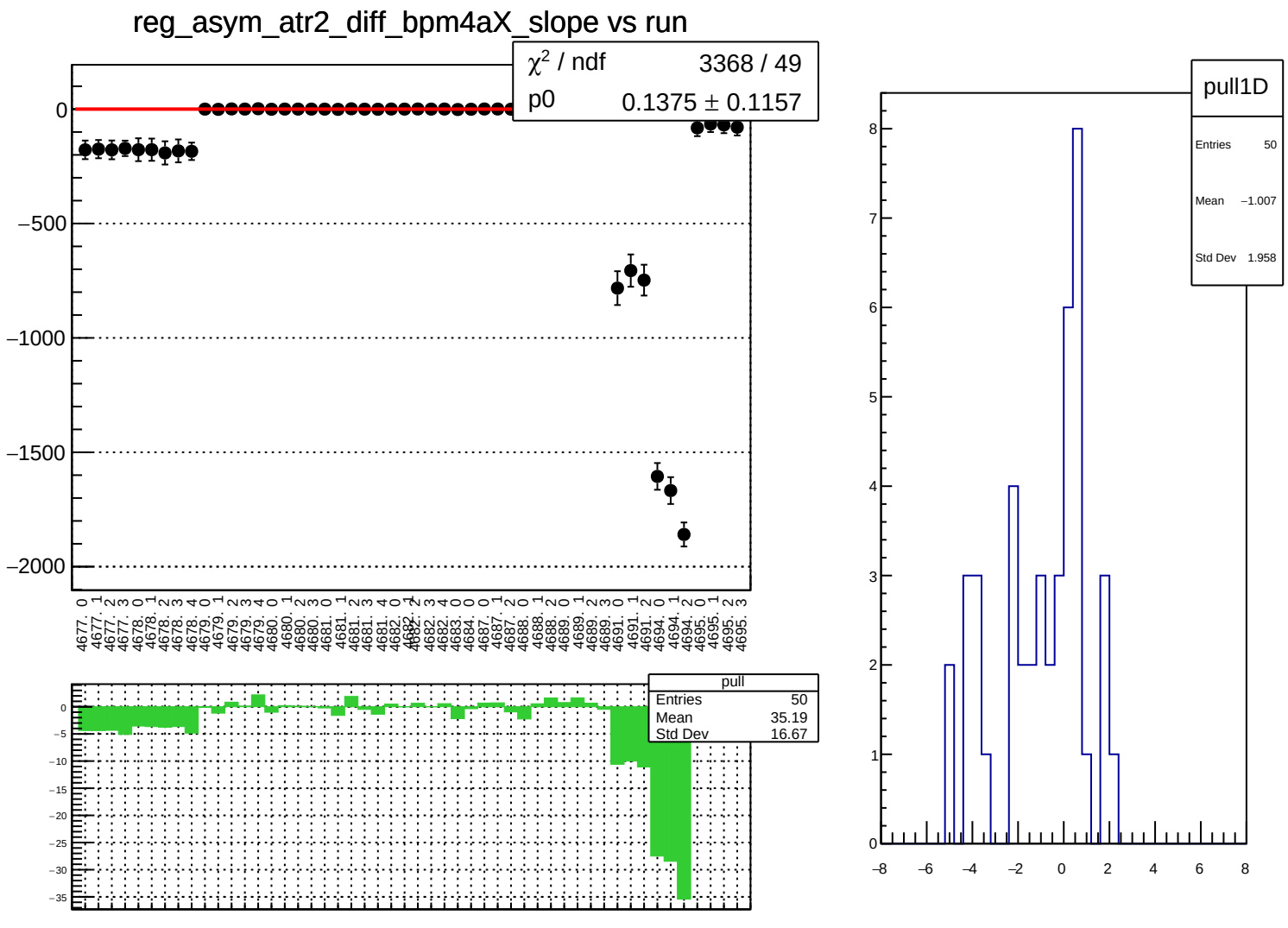

pull1D
Entries 50
Mean 0.022
Std Dev 0.7291
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

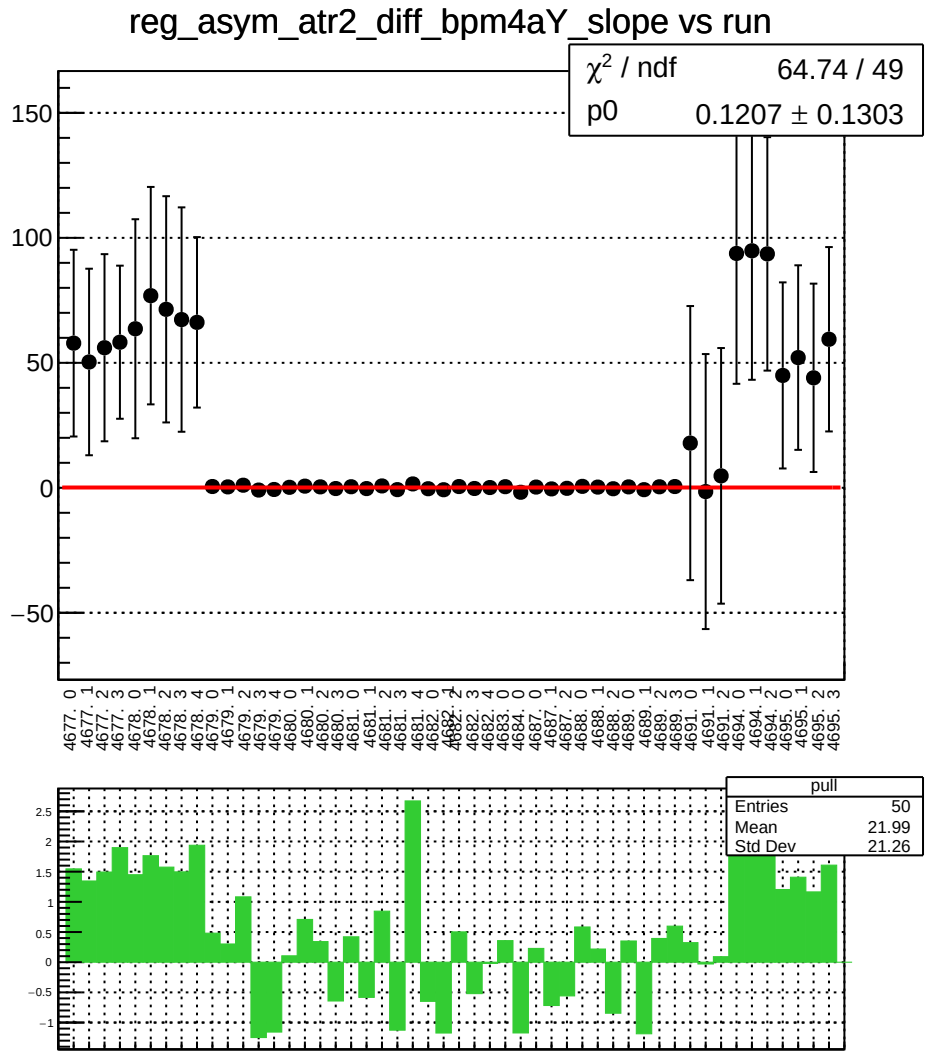

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 918.1 / 49
p0 90.95 ± 0.8626
pull
Entries 50
Mean 34.31
Std Dev 25.25
pull1D
Entries 50
Mean 0.02295
Std Dev 2.824

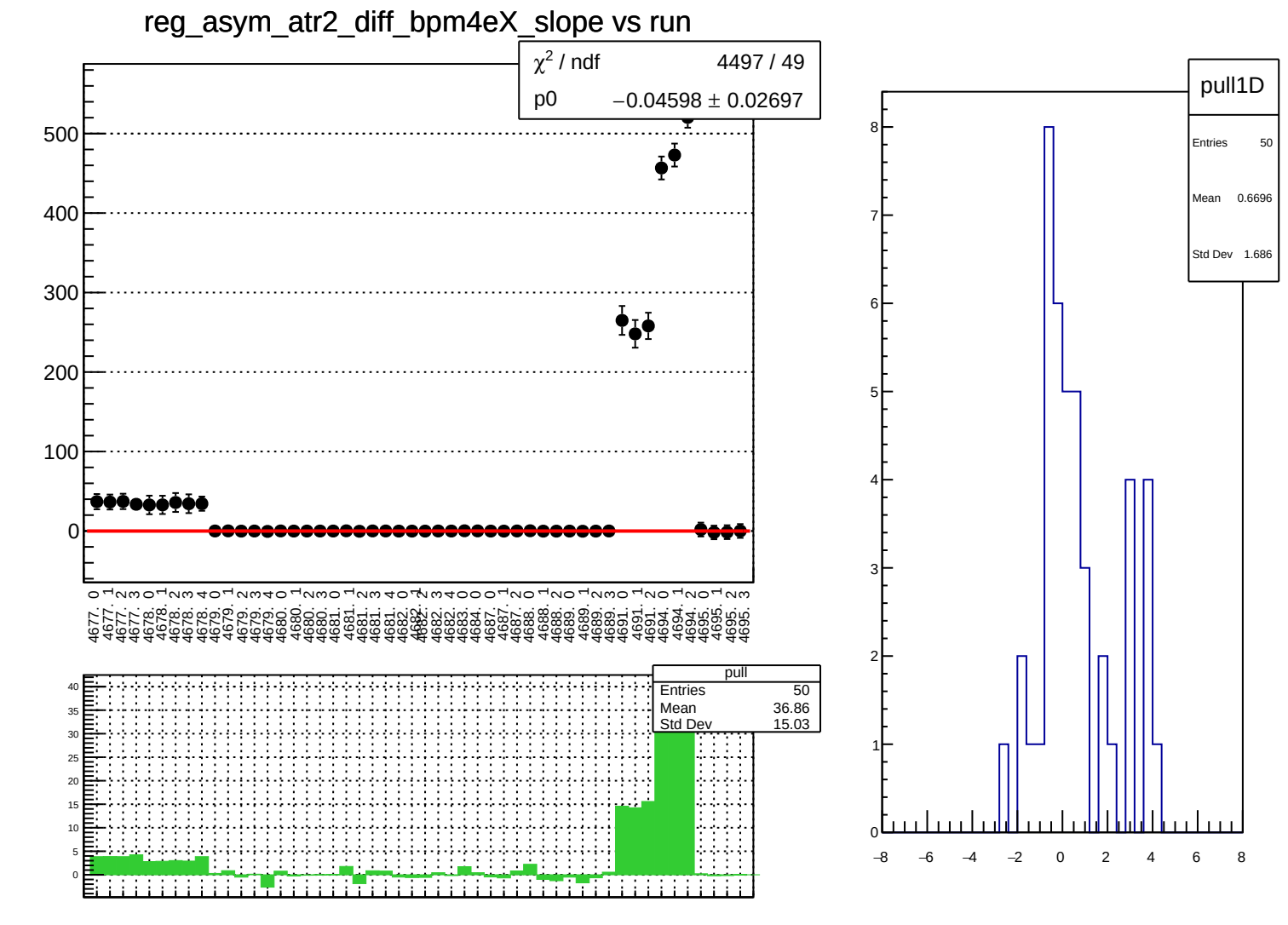

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 9.241 / 49
p0 18.79 ± 5.106
pull
Entries 50
Mean 44.77
Std Dev 28.88

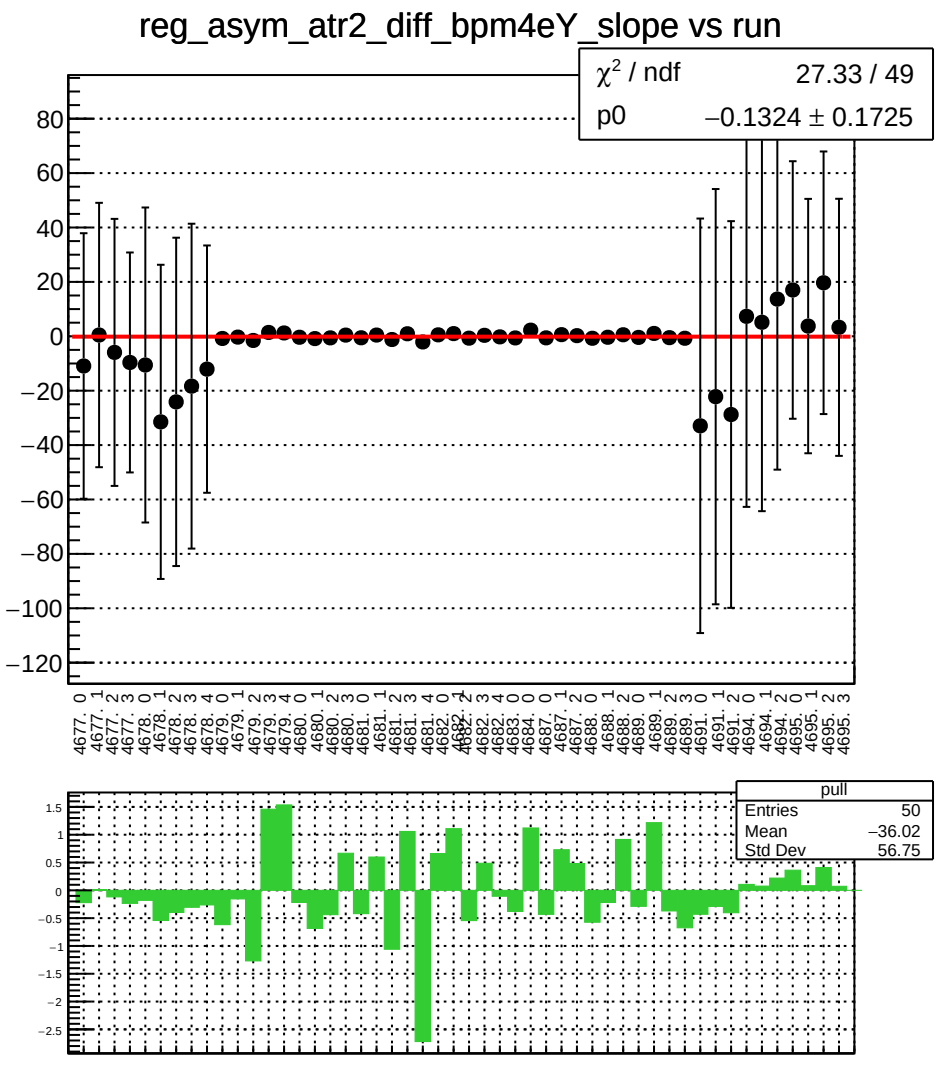

pull1D
Entries 50
Mean −0.02546
Std Dev 0.4292

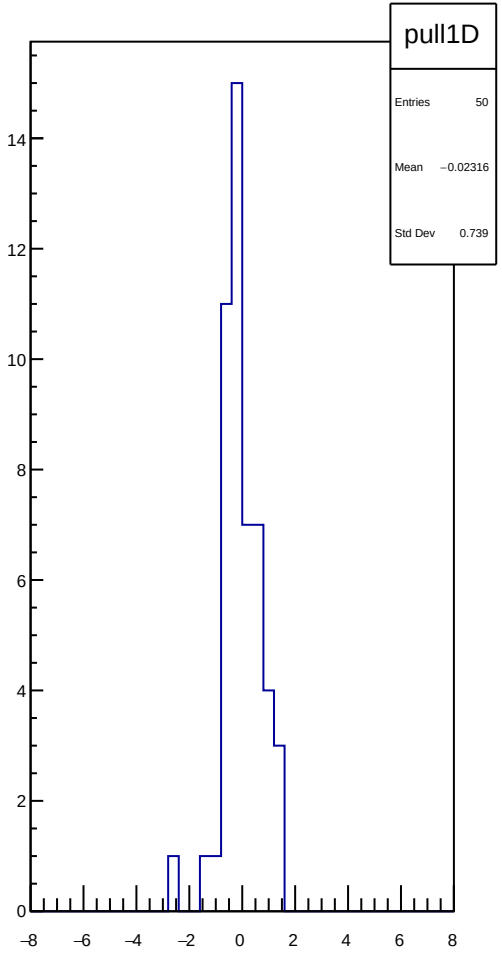

reg_asym_atl1_diff_bpm11X_slope vs run
χ² / ndf 1.239e+04 / 49
p0 −227.4 ± 0.5667
pull
Entries 50
Mean −14.32
Std Dev 19.29
pull1D
Entries 50
Mean −3.529
Std Dev 0

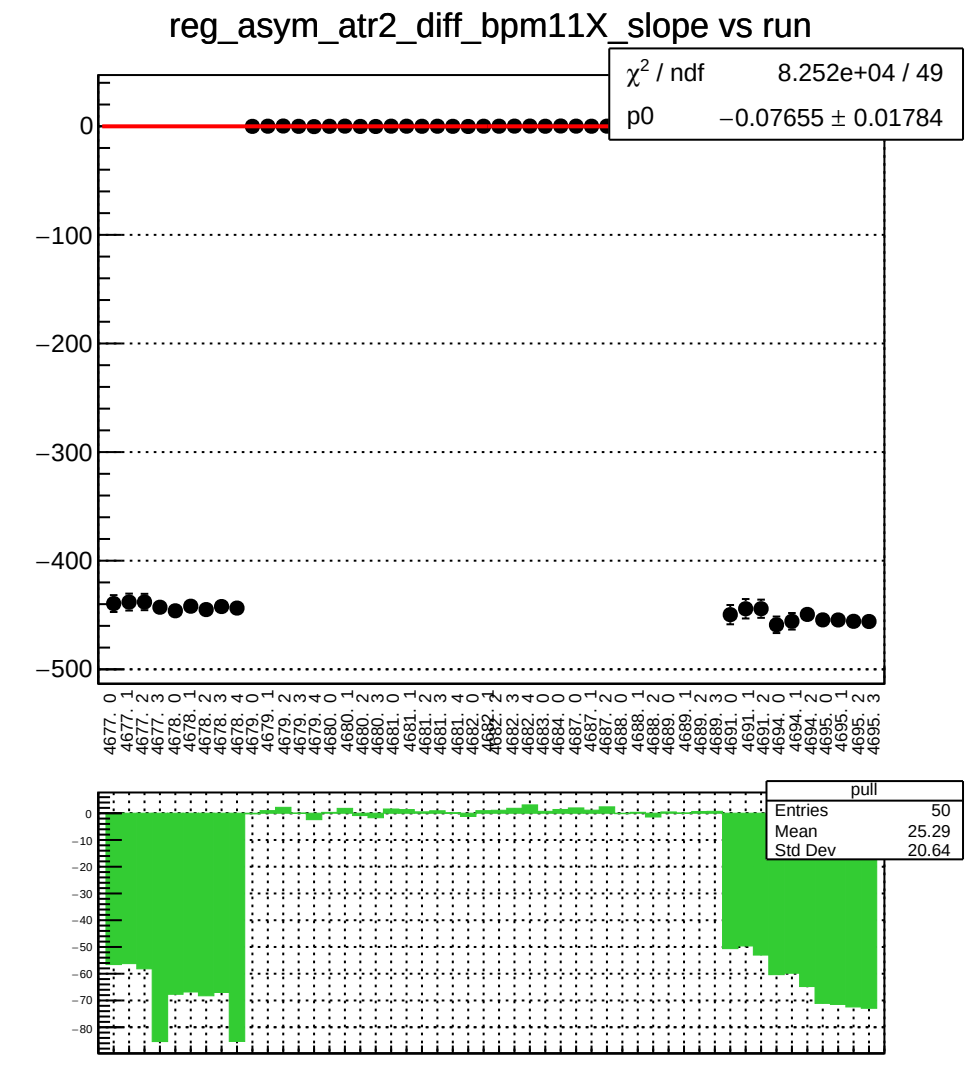

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 3368 / 49
p0 0.1375 ± 0.1157
pull
Entries 50
Mean 35.19
Std Dev 16.67
pull1D
Entries 50
Mean −1.007
Std Dev 1.958

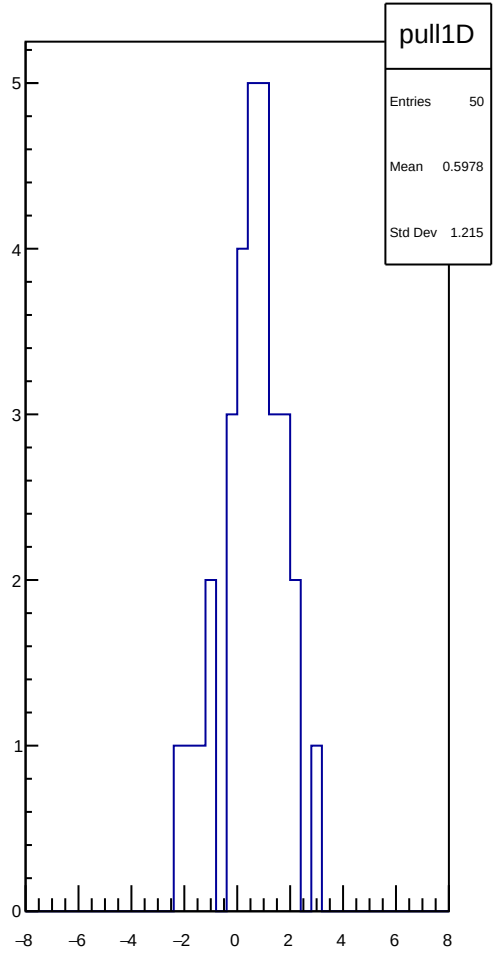

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 64.74 / 49
p0 0.1207 ± 0.1303
150
100
50
0
−50
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 21.99
Std Dev 21.26
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 50
Mean 0.4901
Std Dev 1.027
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

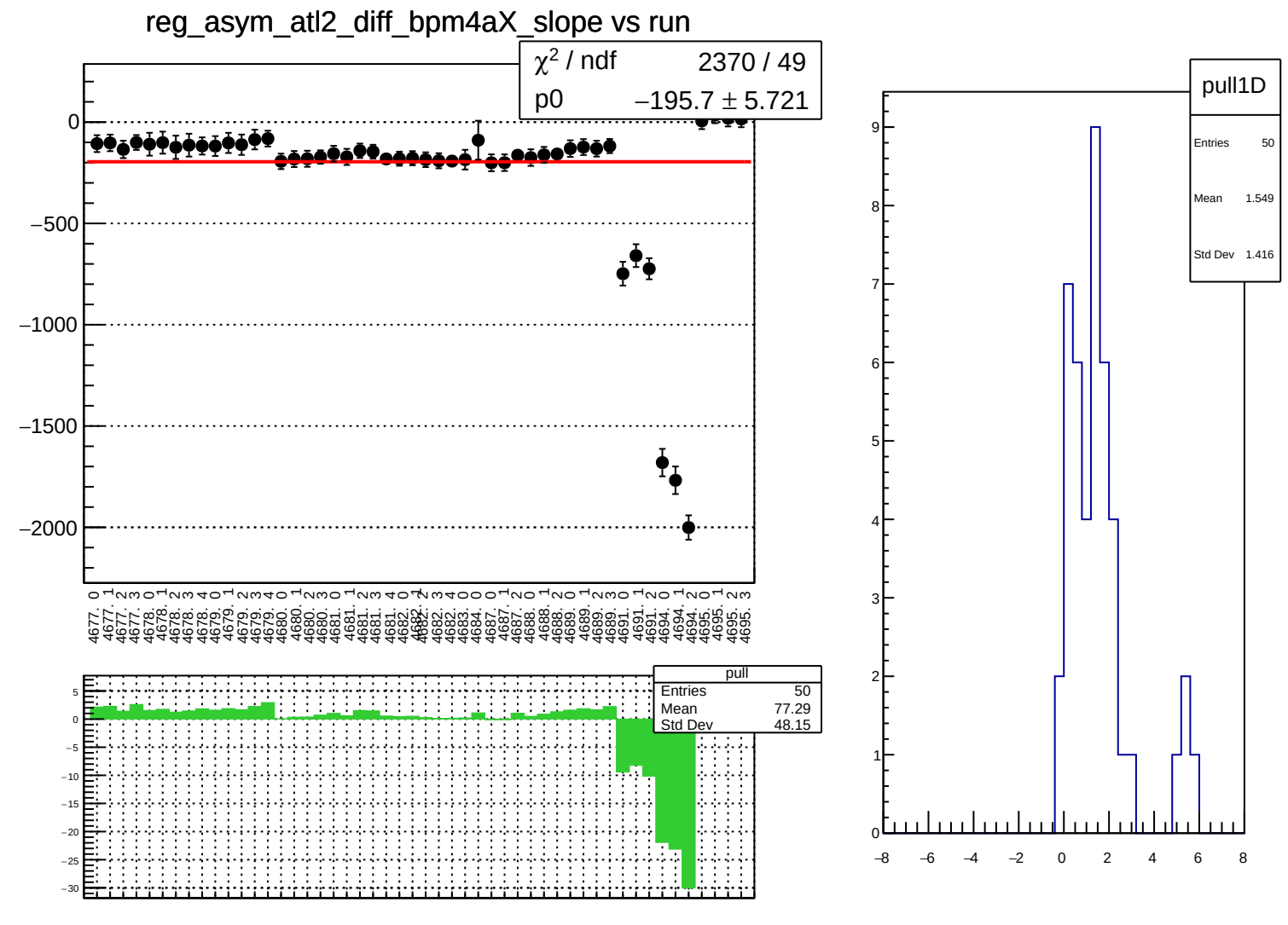

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 4497 / 49
p0 −0.04598 ± 0.02697
500
400
300
200
100
0
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4688. 3
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 36.86
Std Dev 15.03
40
35
30
25
20
15
10
5
0
pull1D
Entries 50
Mean 0.6696
Std Dev 1.686
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

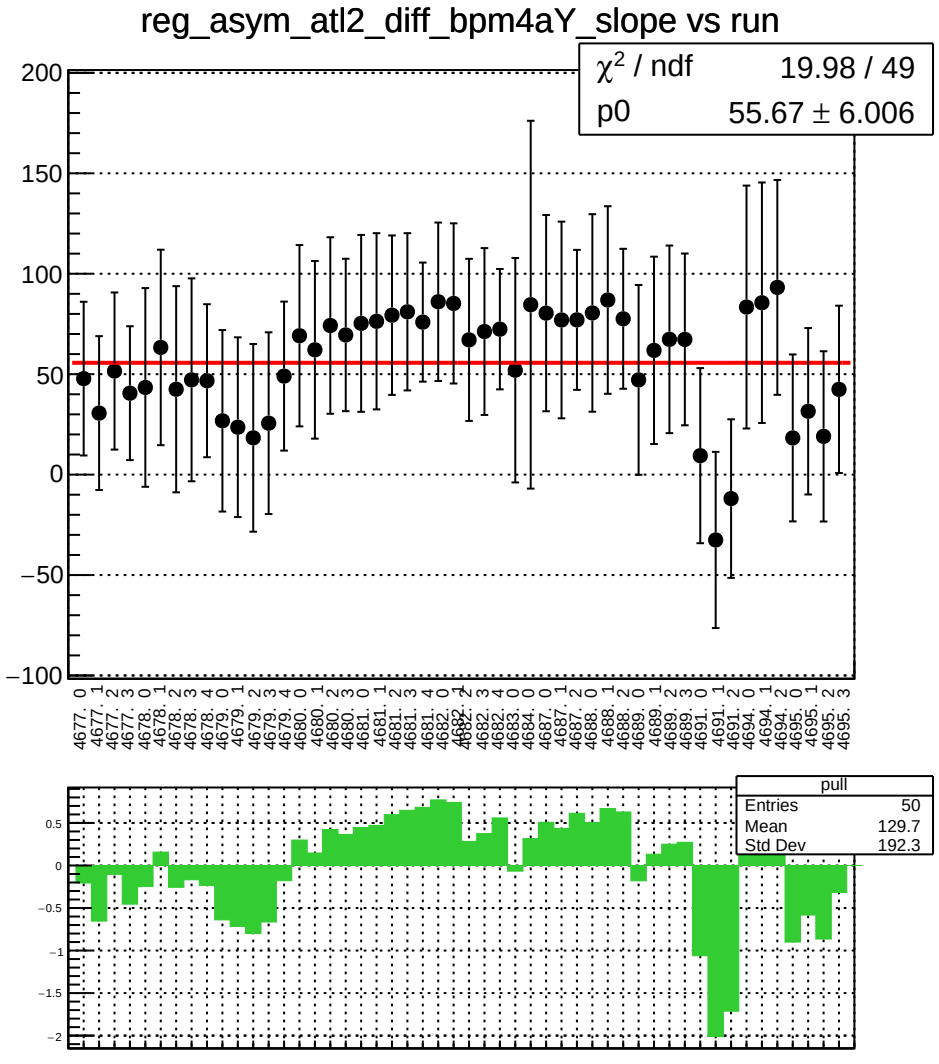

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 27.33 / 49
p0 −0.1324 ± 0.1725
pull
Entries 50
Mean −36.02
Std Dev 56.75

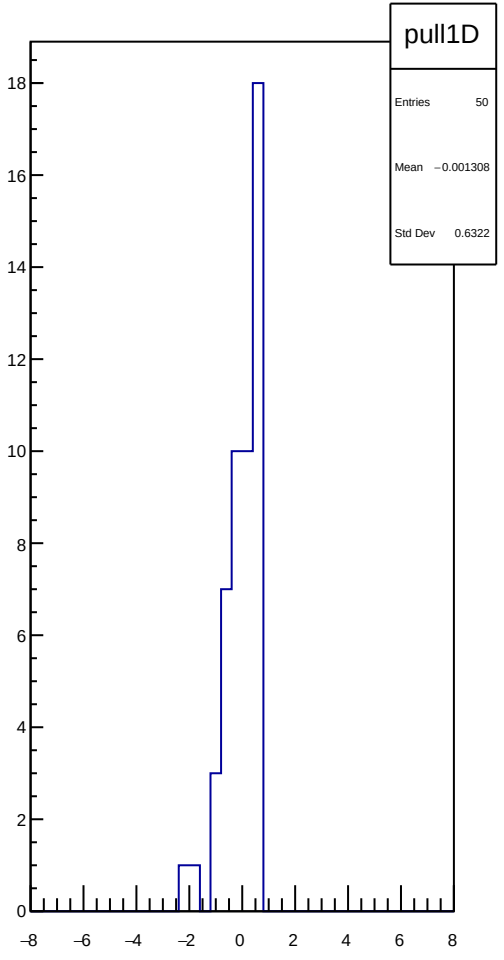

pull1D
Entries 50
Mean −0.02316
Std Dev 0.739

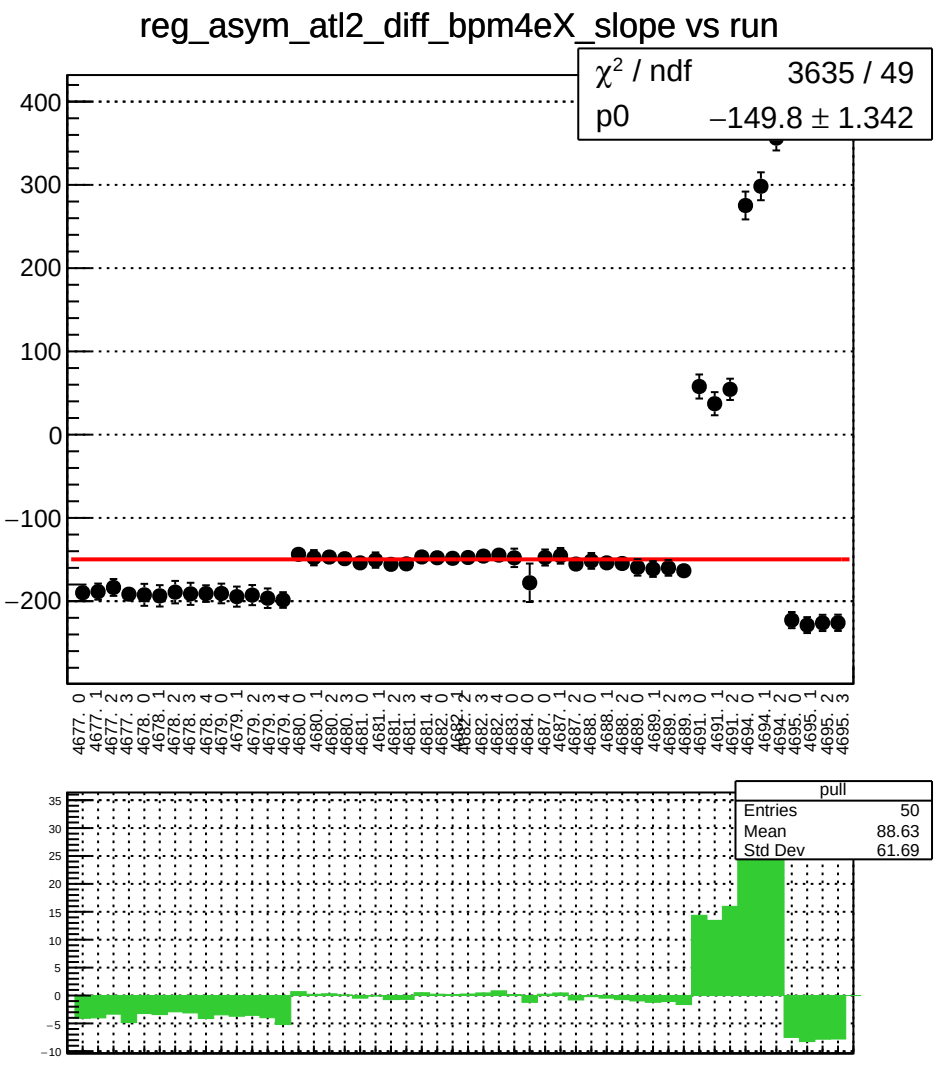

reg_asym_atr2_diff_bpm11X_slope vs run
χ² / ndf 8.252e+04 / 49
p0 −0.07655 ± 0.01784
pull
Entries 50
Mean 25.29
Std Dev 20.64

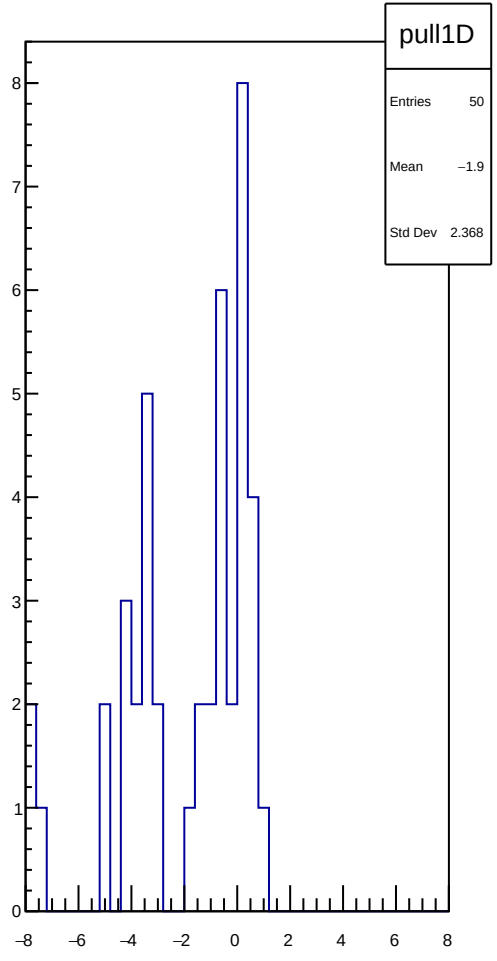

pull1D
Entries 50
Mean 0.5978
Std Dev 1.215

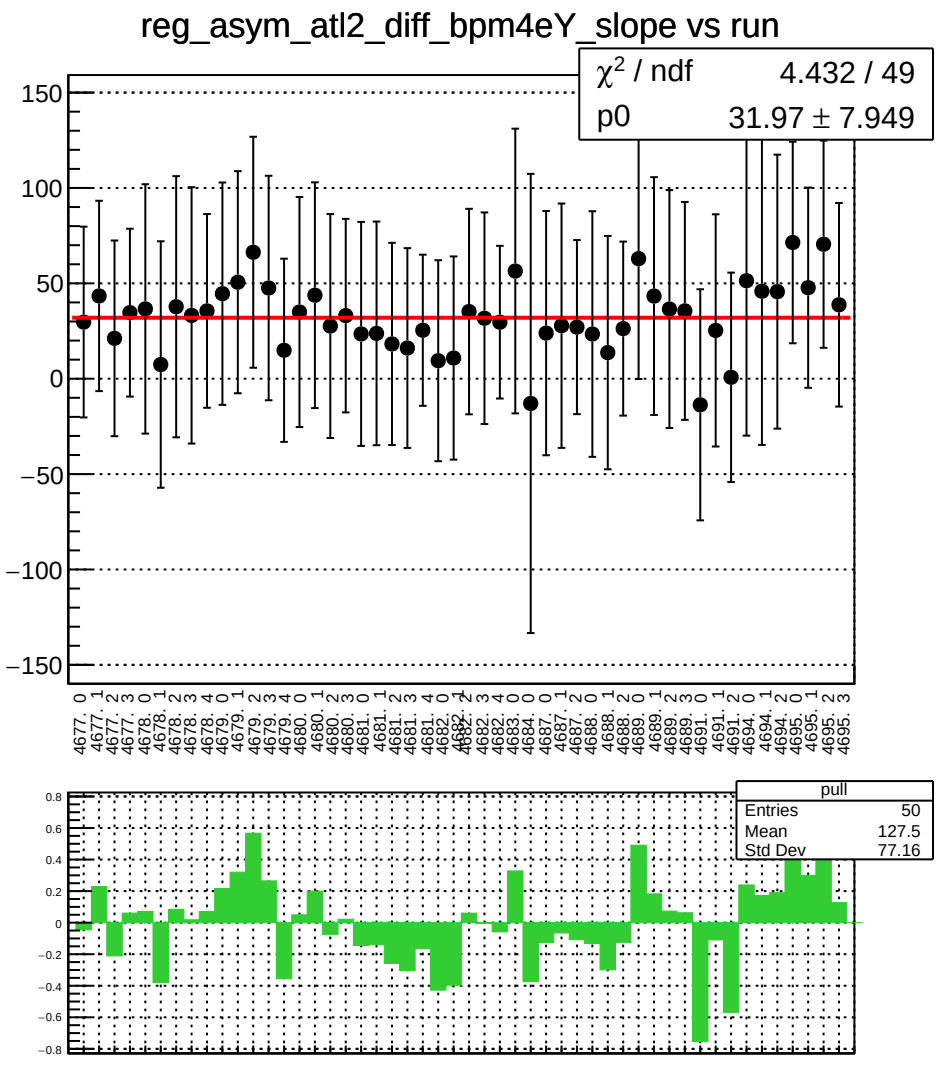

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 2370 / 49
p0 −195.7 ± 5.721
pull
Entries 50
Mean 77.29
Std Dev 48.15
pull1D
Entries 50
Mean 1.549
Std Dev 1.416

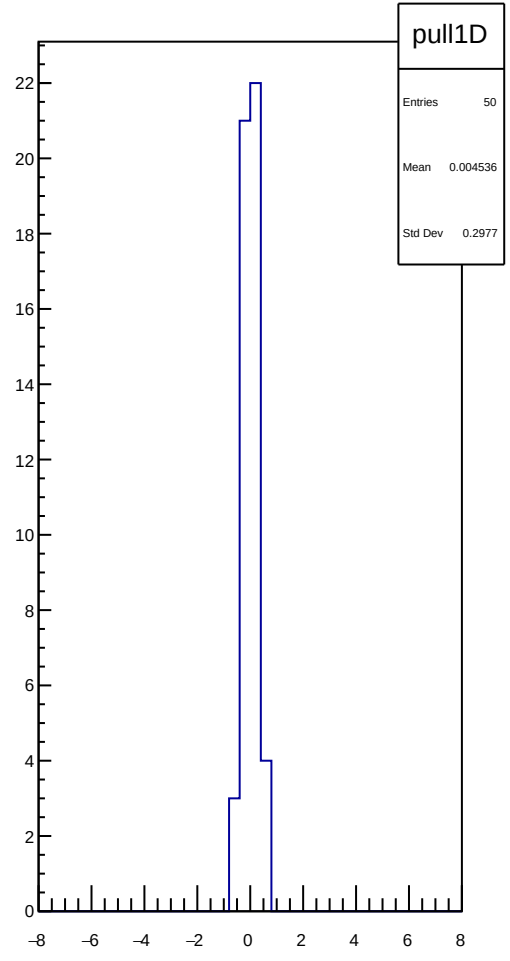

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 19.98 / 49
p0 55.67 ± 6.006
pull
Entries 50
Mean 129.7
Std Dev 192.3

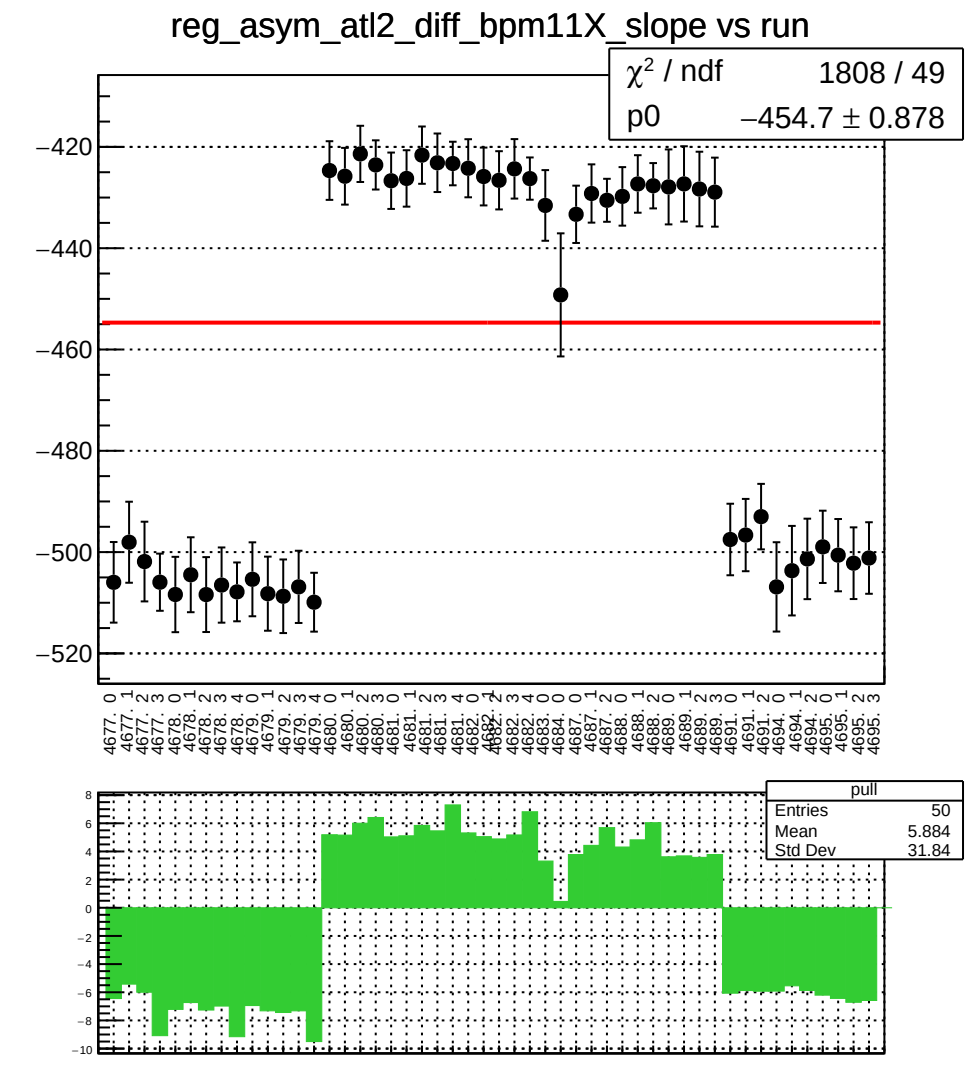

pull1D
Entries 50
Mean −0.001308
Std Dev 0.6322

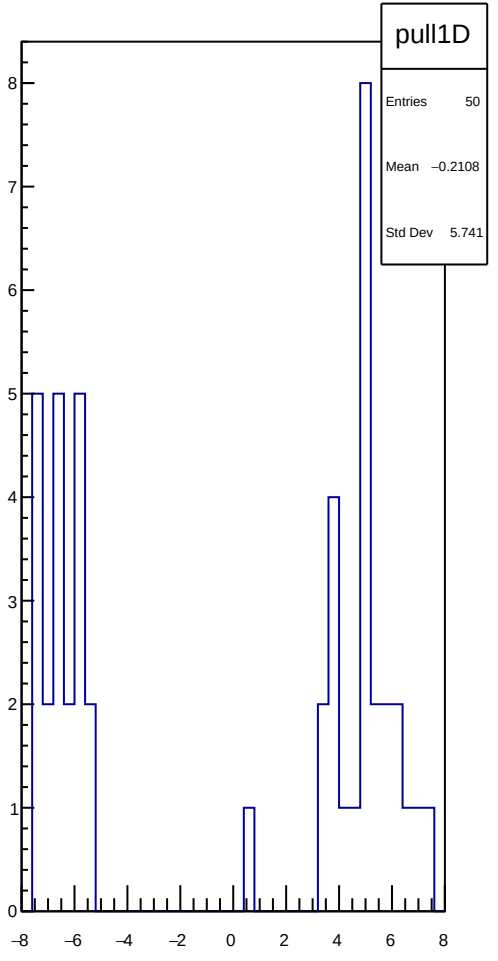

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 3635 / 49
p0 −149.8 ± 1.342
pull
Entries 50
Mean 88.63
Std Dev 61.69

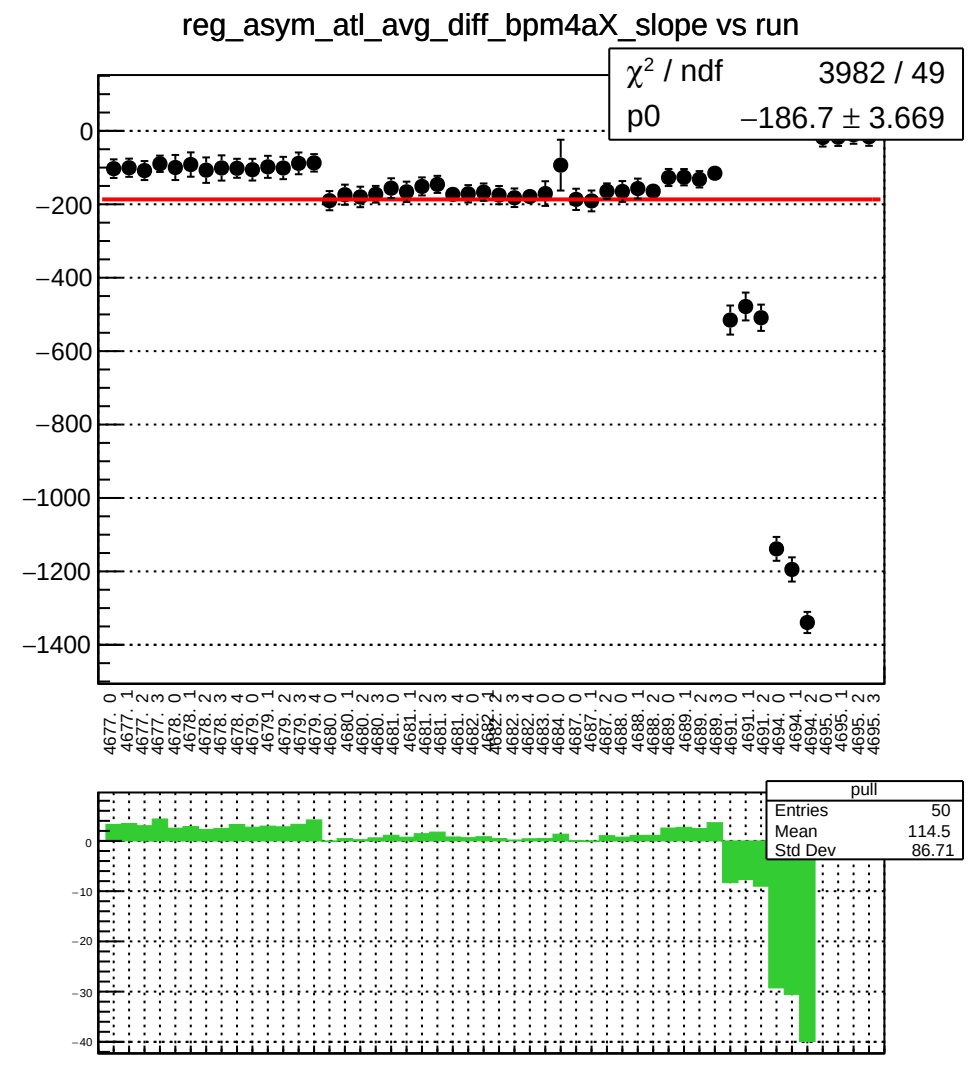

pull1D
Entries 50
Mean −1.9
Std Dev 2.368

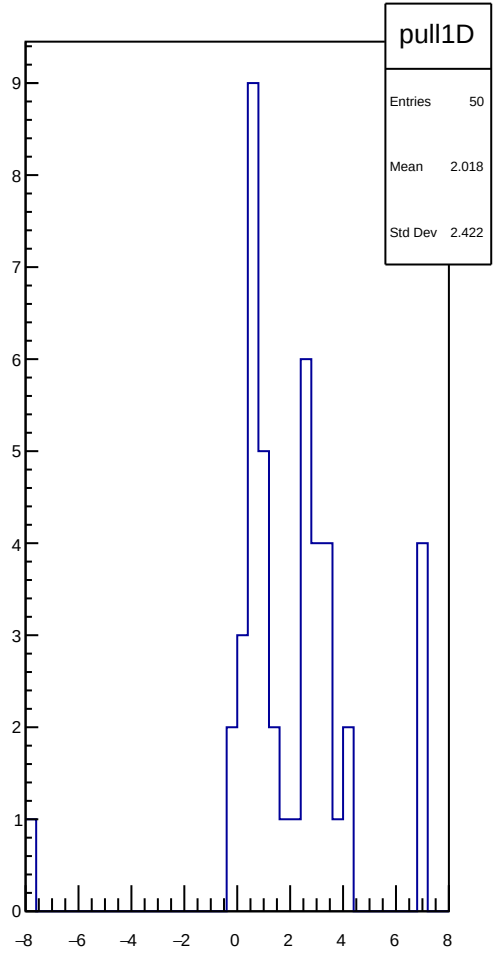

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 4.432 / 49
p0 31.97 ± 7.949
pull
Entries 50
Mean 127.5
Std Dev 77.16

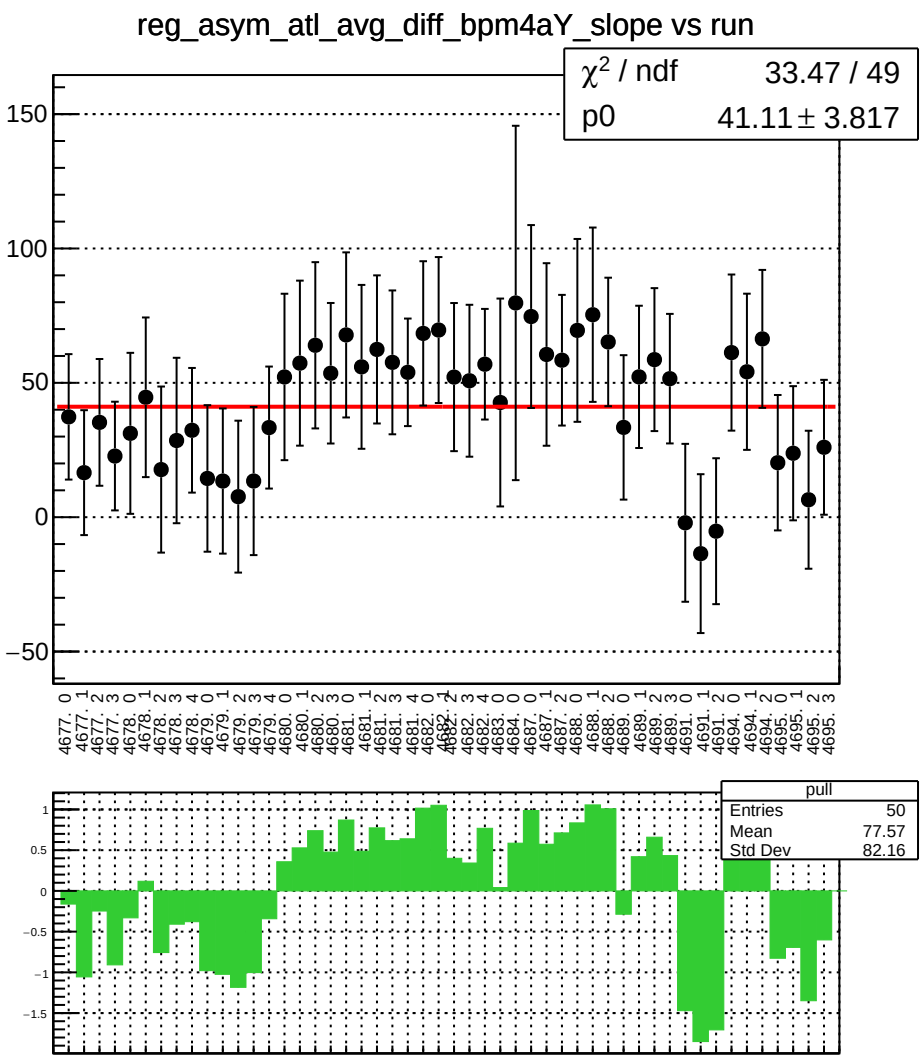

pull1D
Entries 50
Mean 0.004536
Std Dev 0.2977

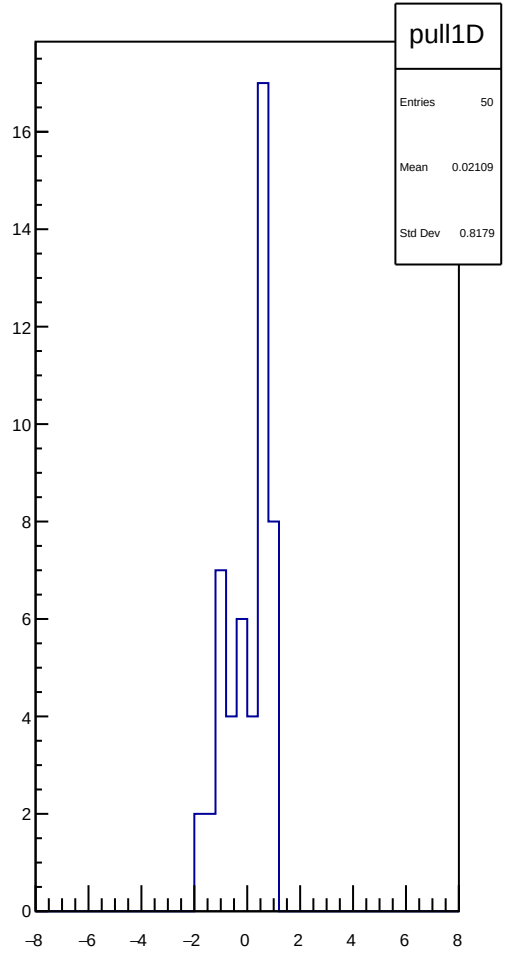

reg_asym_atl2_diff_bpm11X_slope vs run
χ² / ndf 1808 / 49
p0 −454.7 ± 0.878
pull
Entries 50
Mean 5.884
Std Dev 31.84

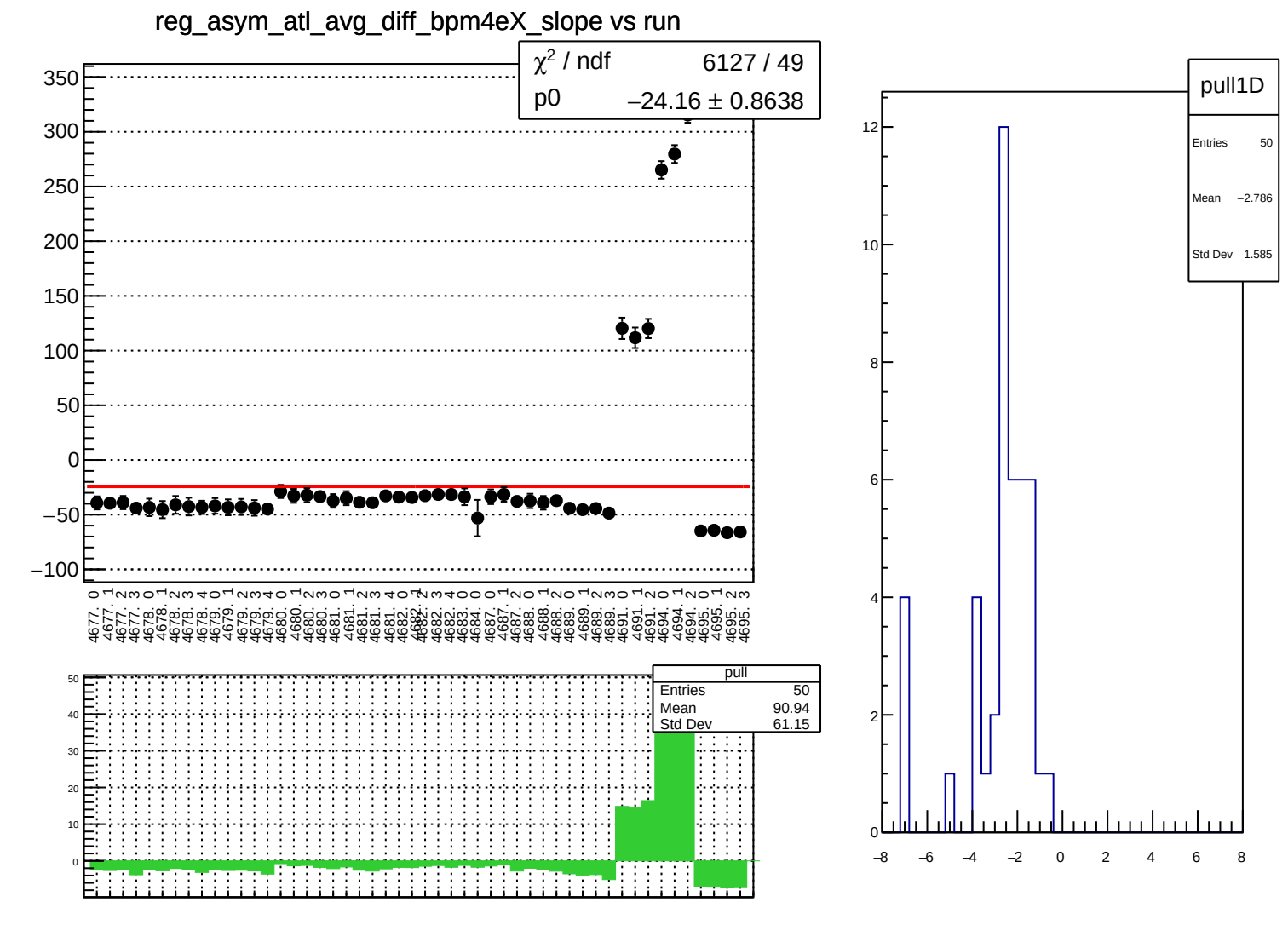

pull1D
Entries 50
Mean −0.2108
Std Dev 5.741

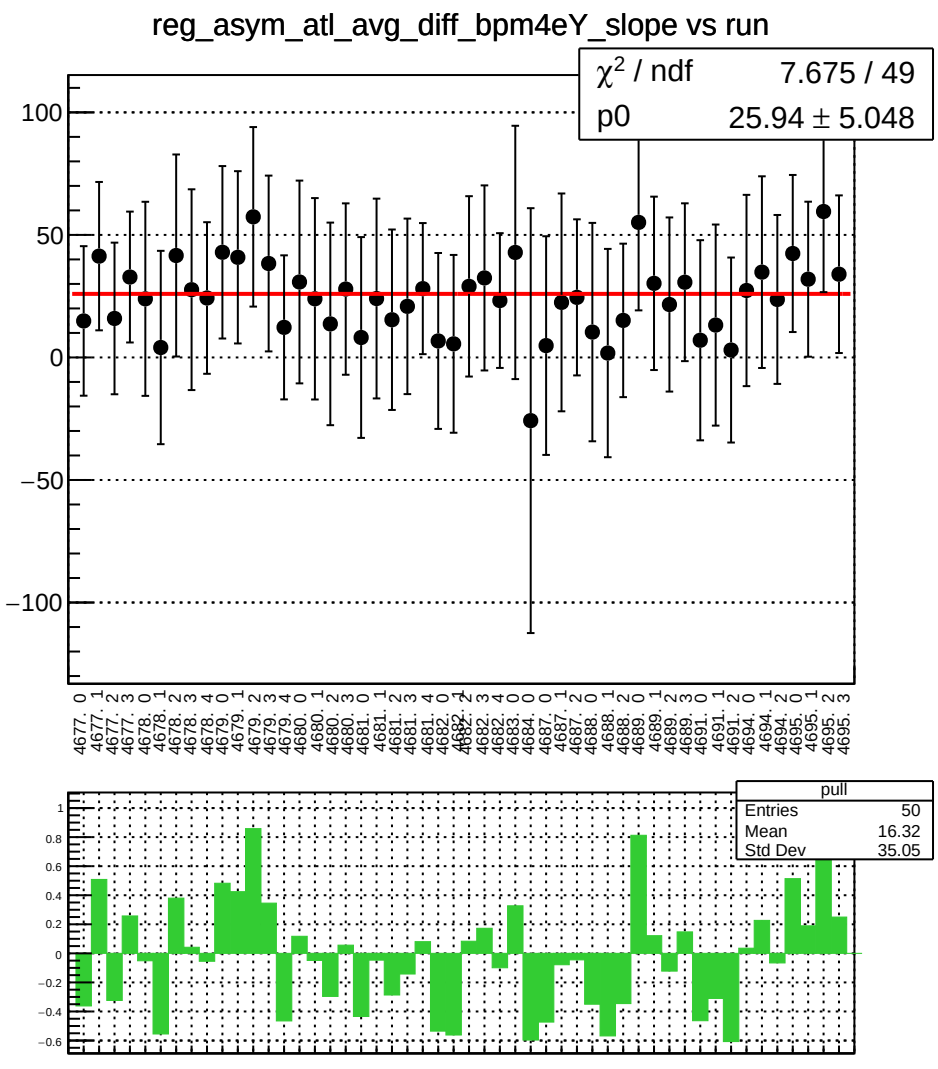

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 3982 / 49
p0 −186.7 ± 3.669
pull
Entries 50
Mean 114.5
Std Dev 86.71

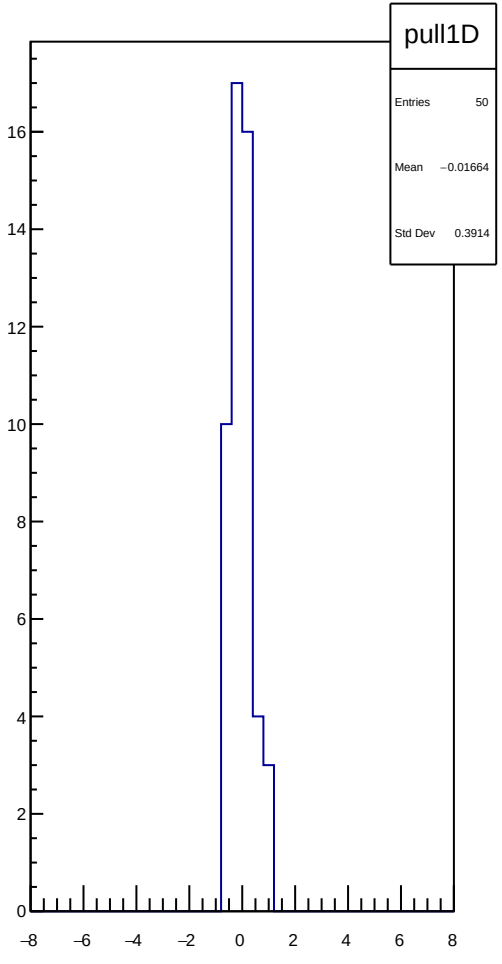

pull1D
Entries 50
Mean 2.018
Std Dev 2.422

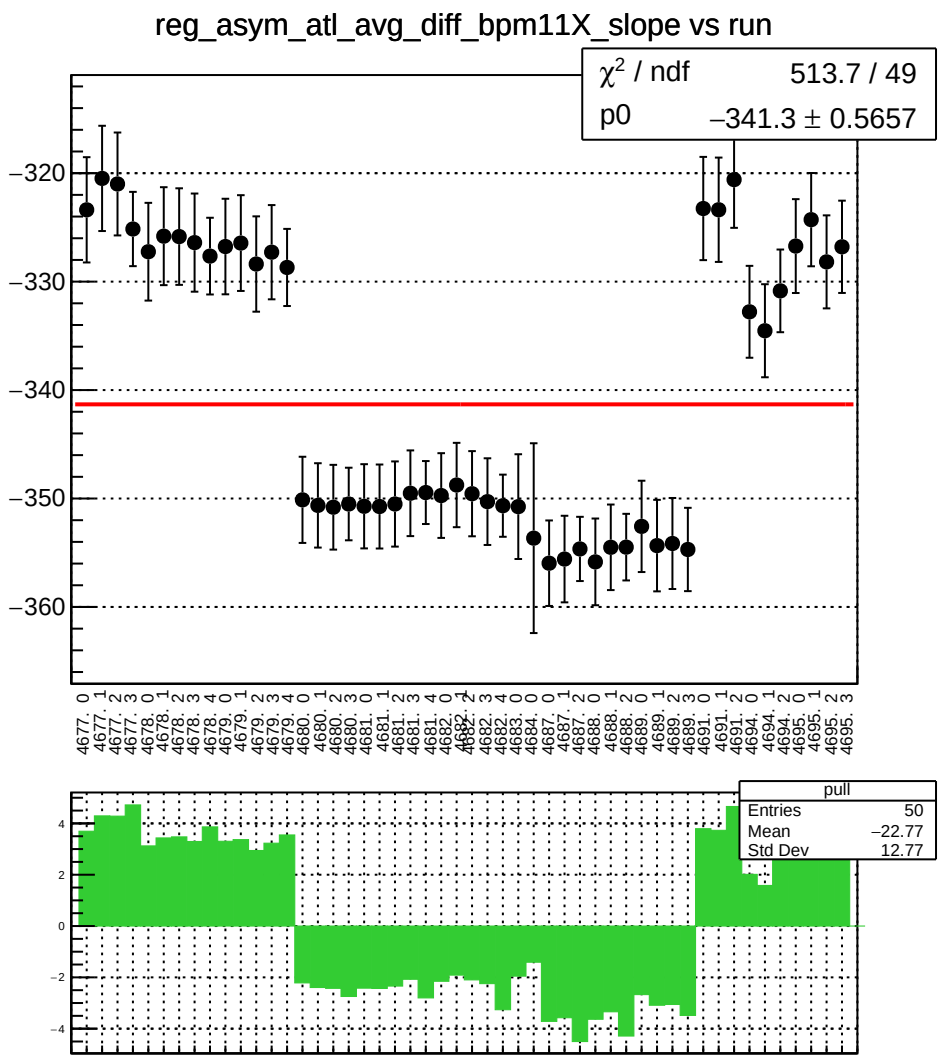

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.47 / 49
p0 41.11 ± 3.817
150
100
50
0
−50
pull
Entries 50
Mean 77.57
Std Dev 82.16
1
0.5
0
−0.5
−1
−1.5

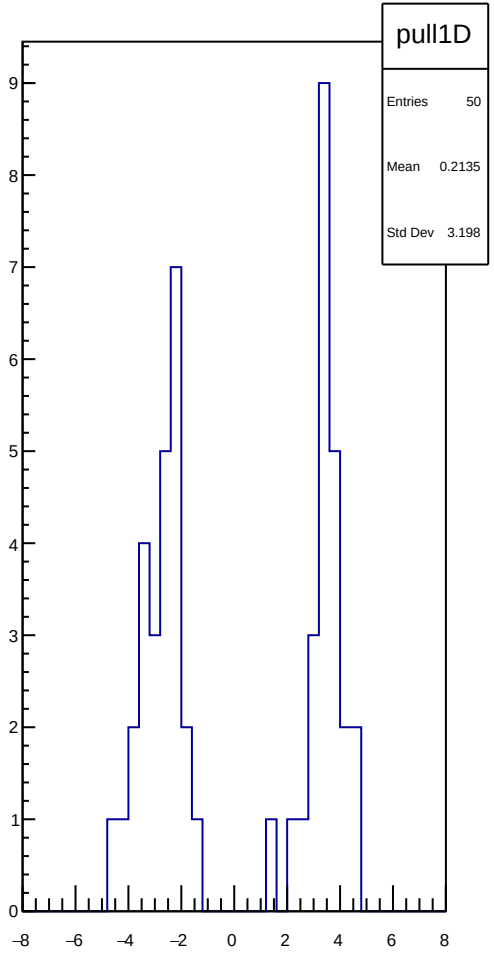

pull1D
Entries 50
Mean 0.02109
Std Dev 0.8179
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

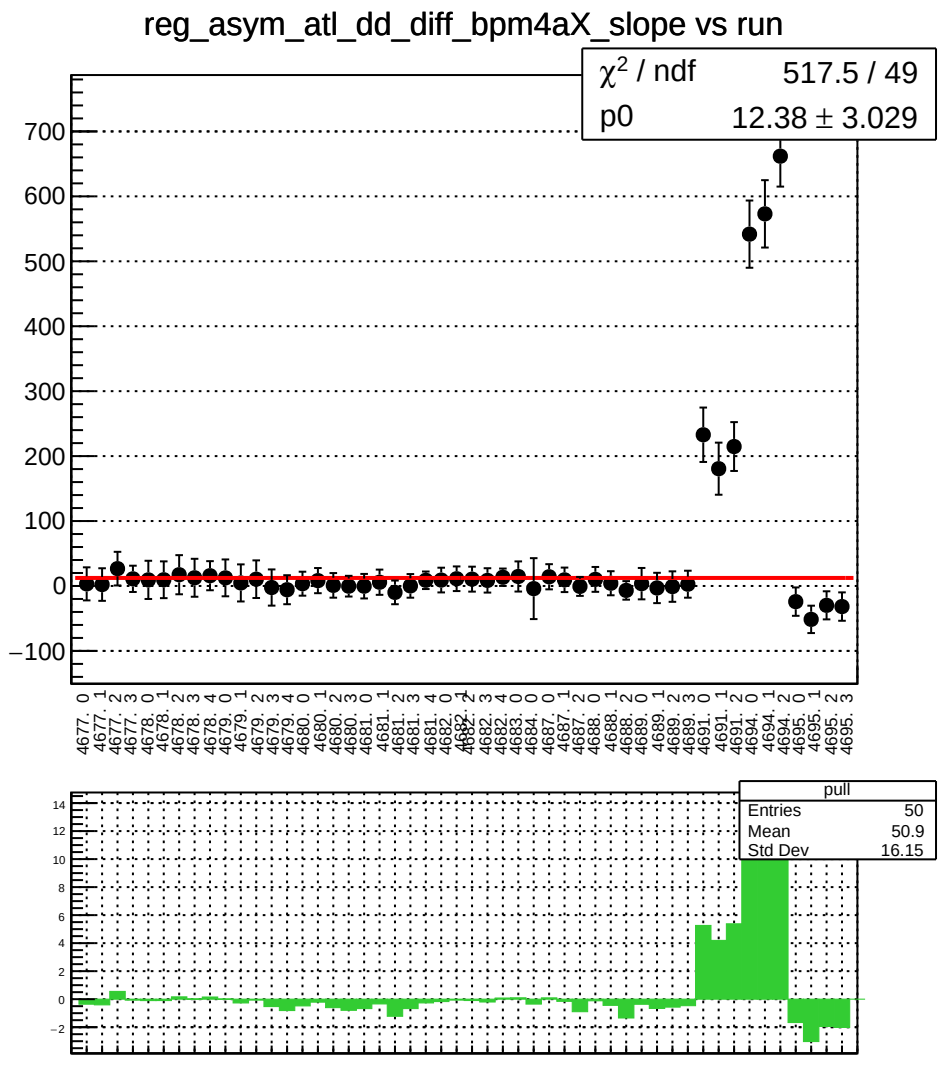

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 6127 / 49
p0 −24.16 ± 0.8638
pull
Entries 50
Mean 90.94
Std Dev 61.15
pull1D
Entries 50
Mean −2.786
Std Dev 1.585

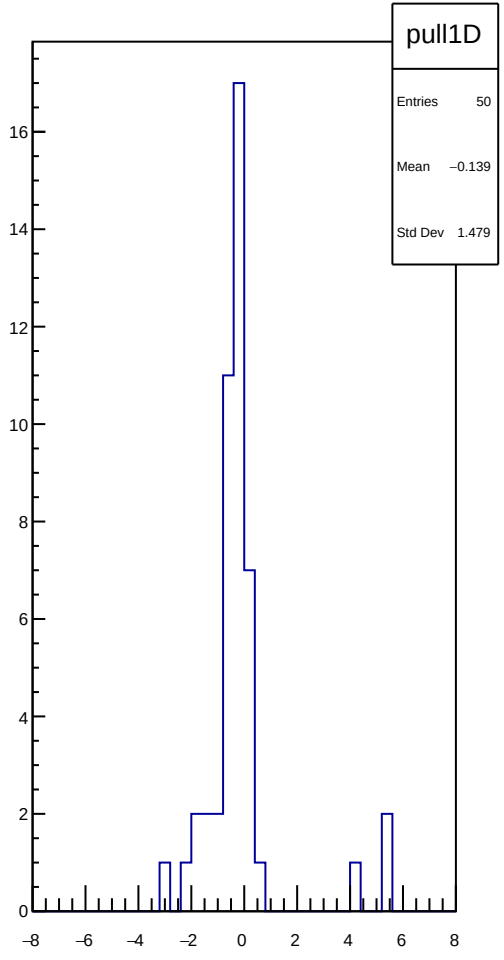

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.675 / 49
p0 25.94 ± 5.048
pull
Entries 50
Mean 16.32
Std Dev 35.05

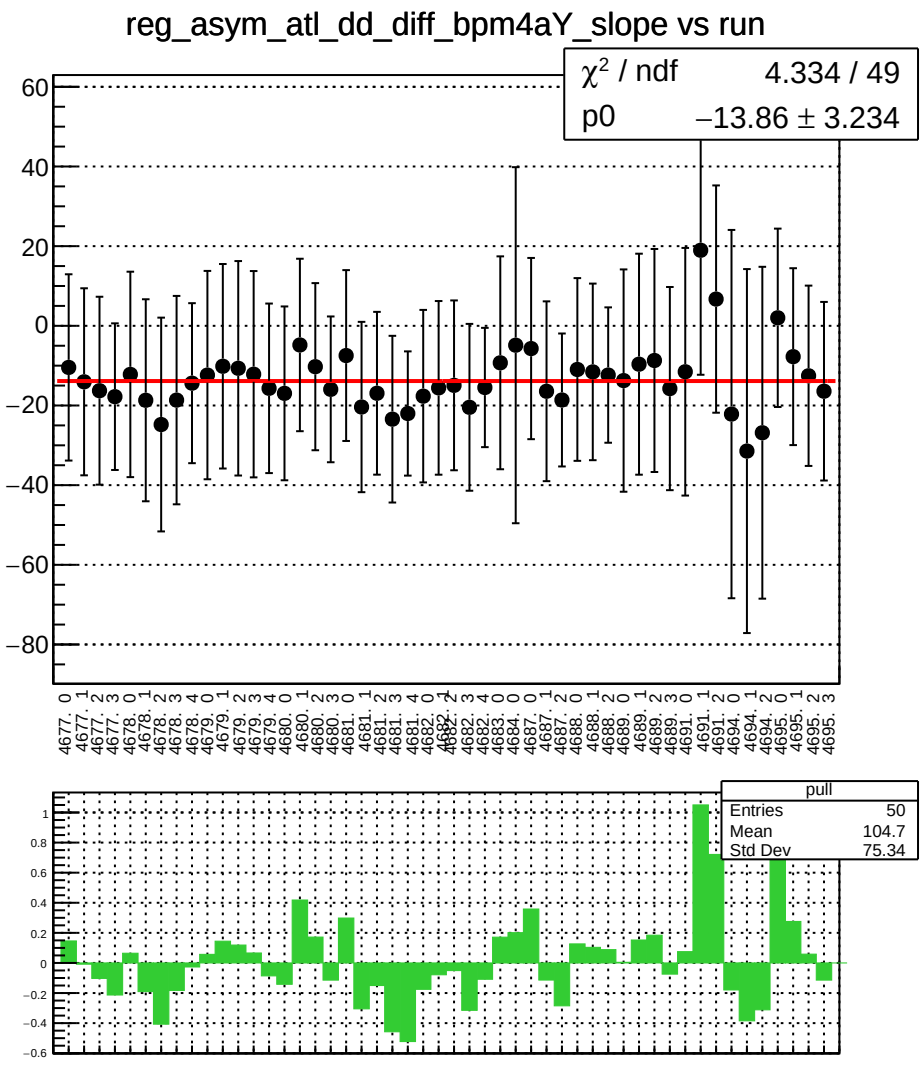

pull1D
Entries 50
Mean −0.01664
Std Dev 0.3914

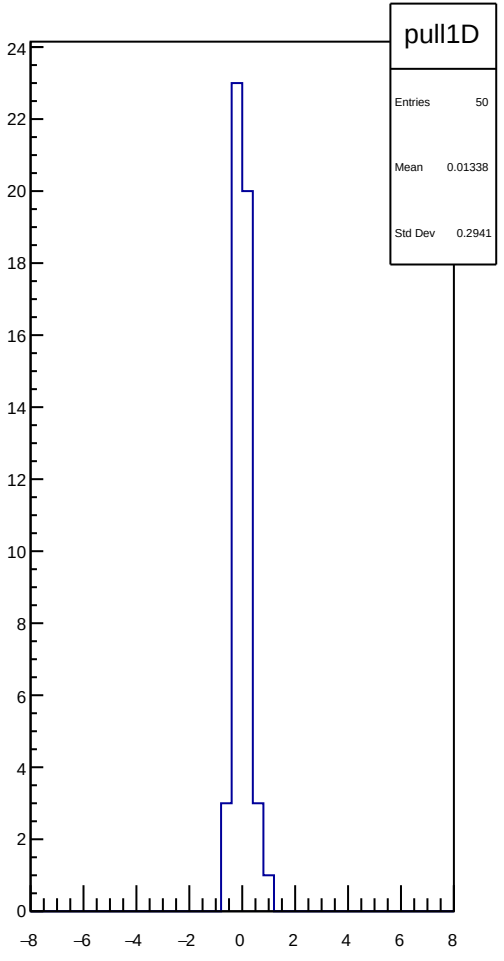

reg_asym_atl_avg_diff_bpm11X_slope vs run
χ² / ndf 513.7 / 49
p0 −341.3 ± 0.5657
−320
−330
−340
−350
−360
pull
Entries 50
Mean −22.77
Std Dev 12.77

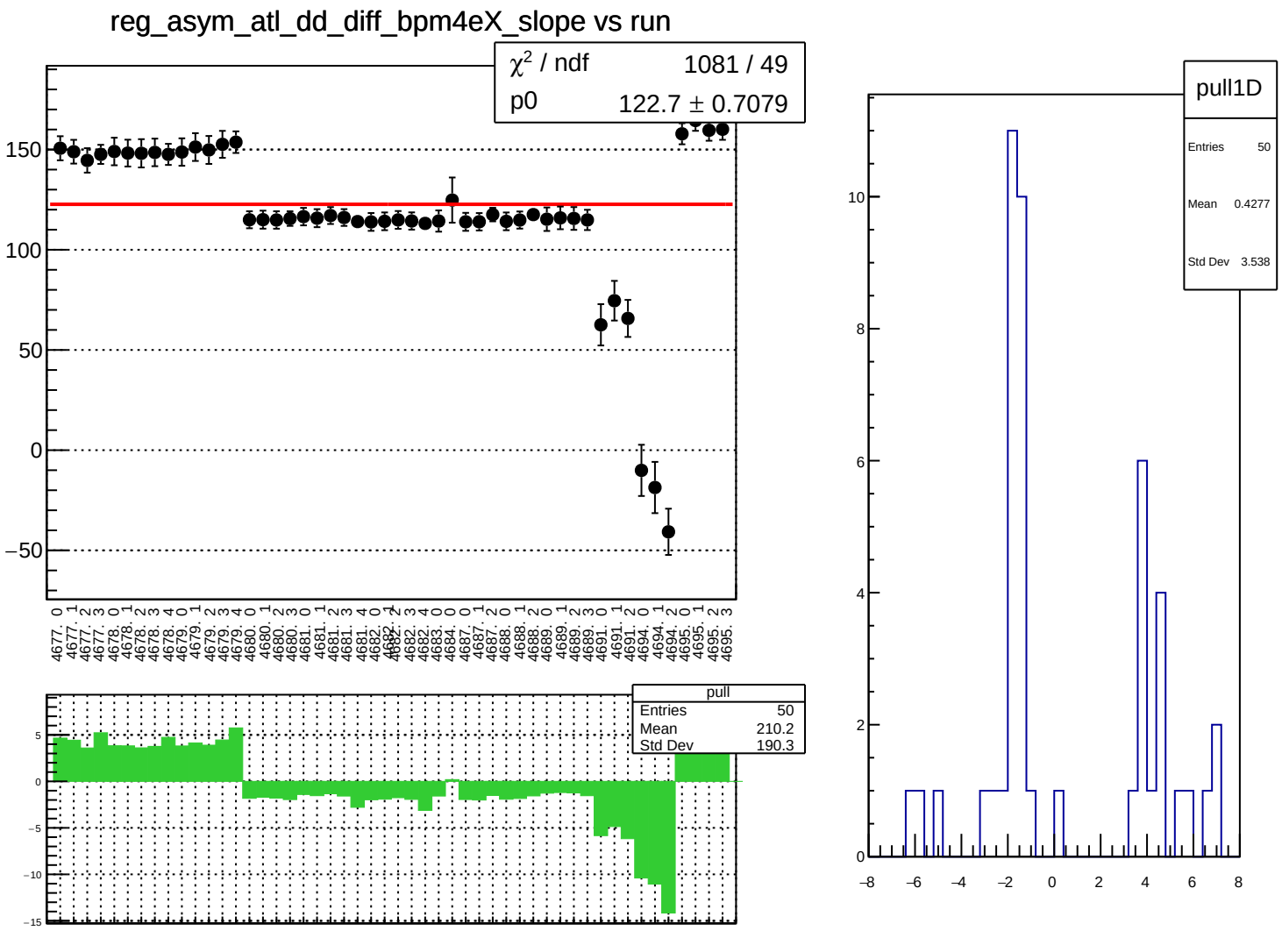

pull1D
Entries 50
Mean 0.2135
Std Dev 3.198

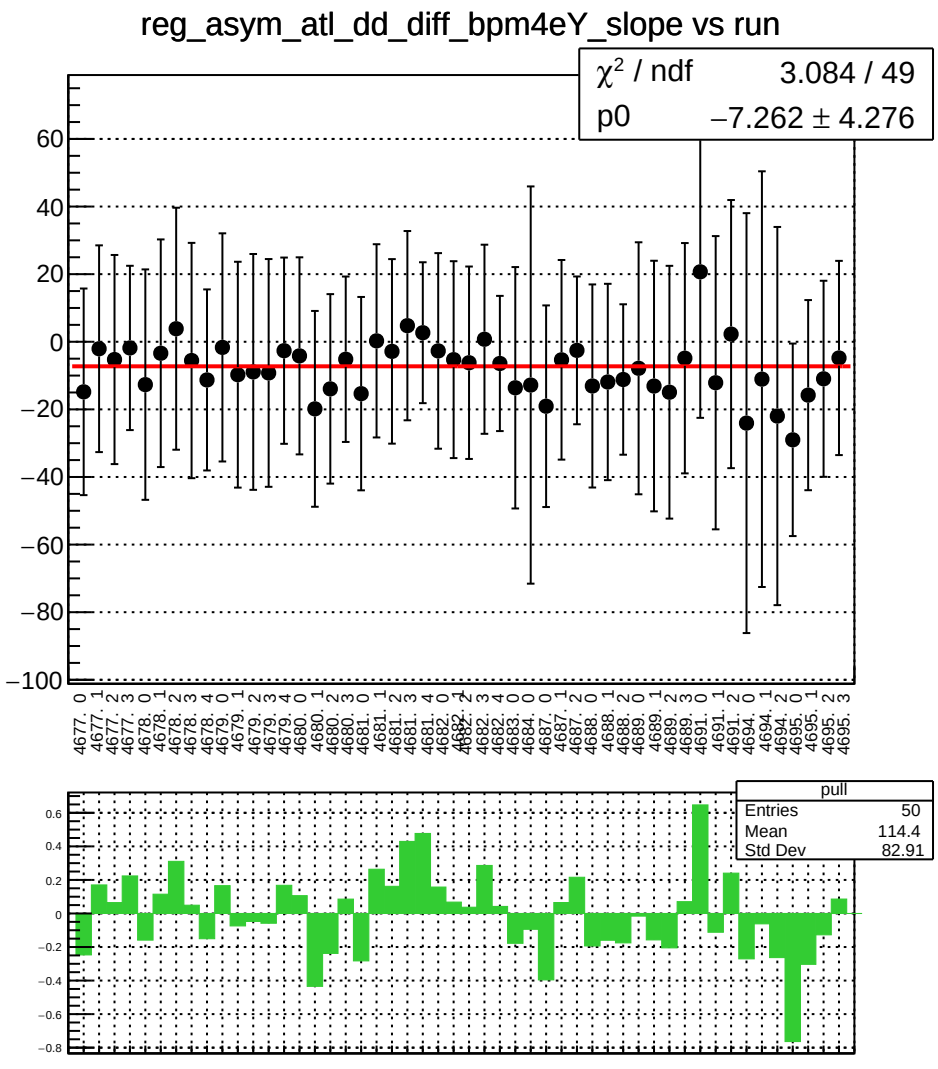

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 517.5 / 49
p0 12.38 ± 3.029
pull
Entries 50
Mean 50.9
Std Dev 16.15

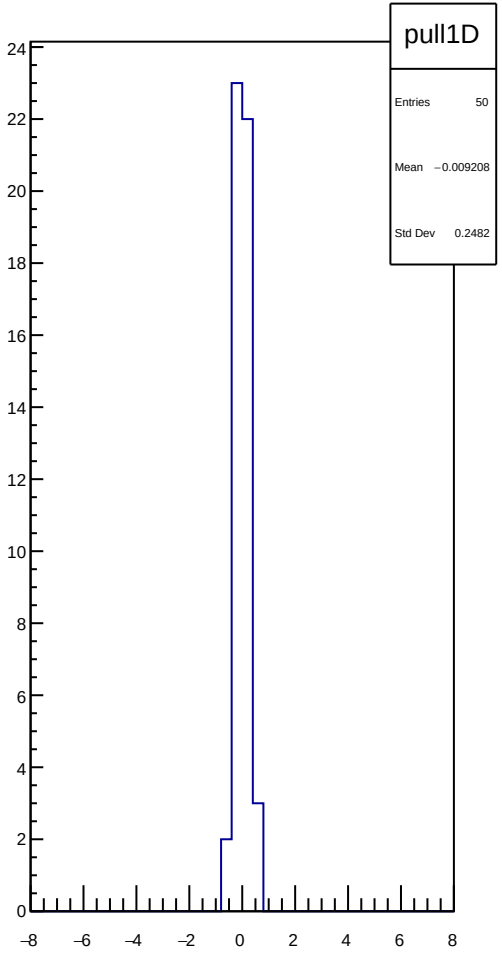

pull1D
Entries 50
Mean −0.139
Std Dev 1.479

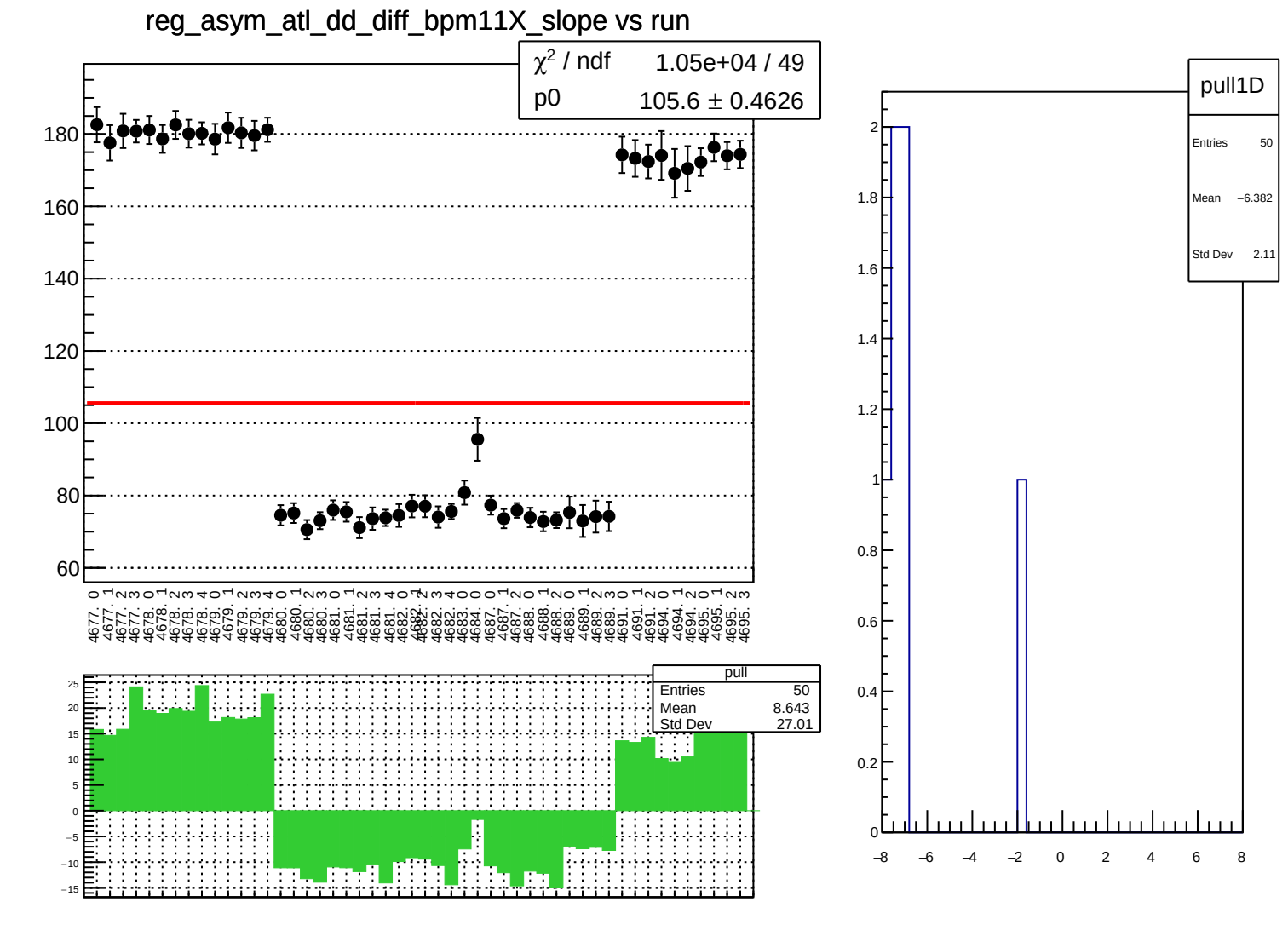

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.334 / 49
p0 −13.86 ± 3.234
pull
Entries 50
Mean 104.7
Std Dev 75.34

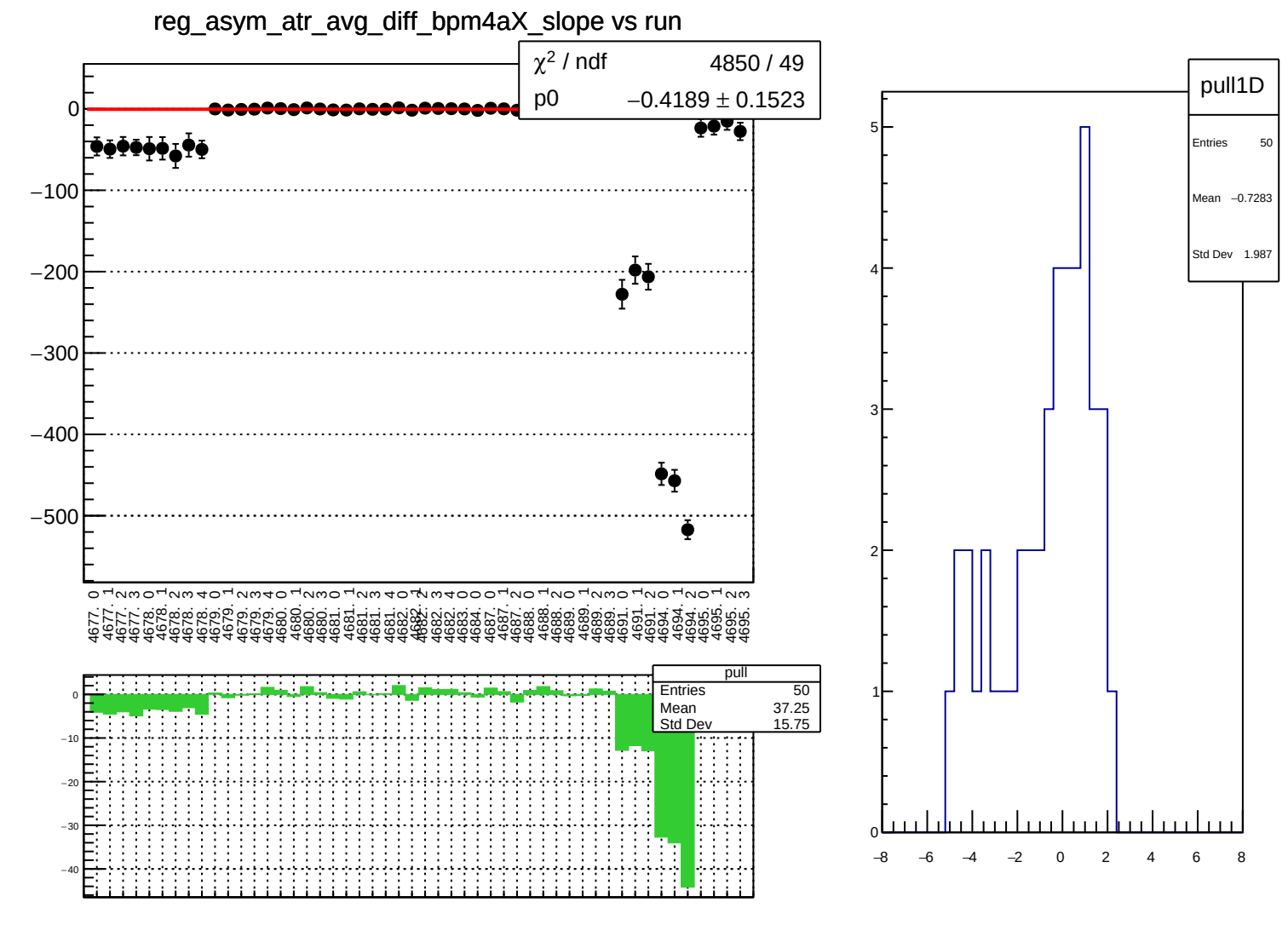

pull1D
Entries 50
Mean 0.01338
Std Dev 0.2941

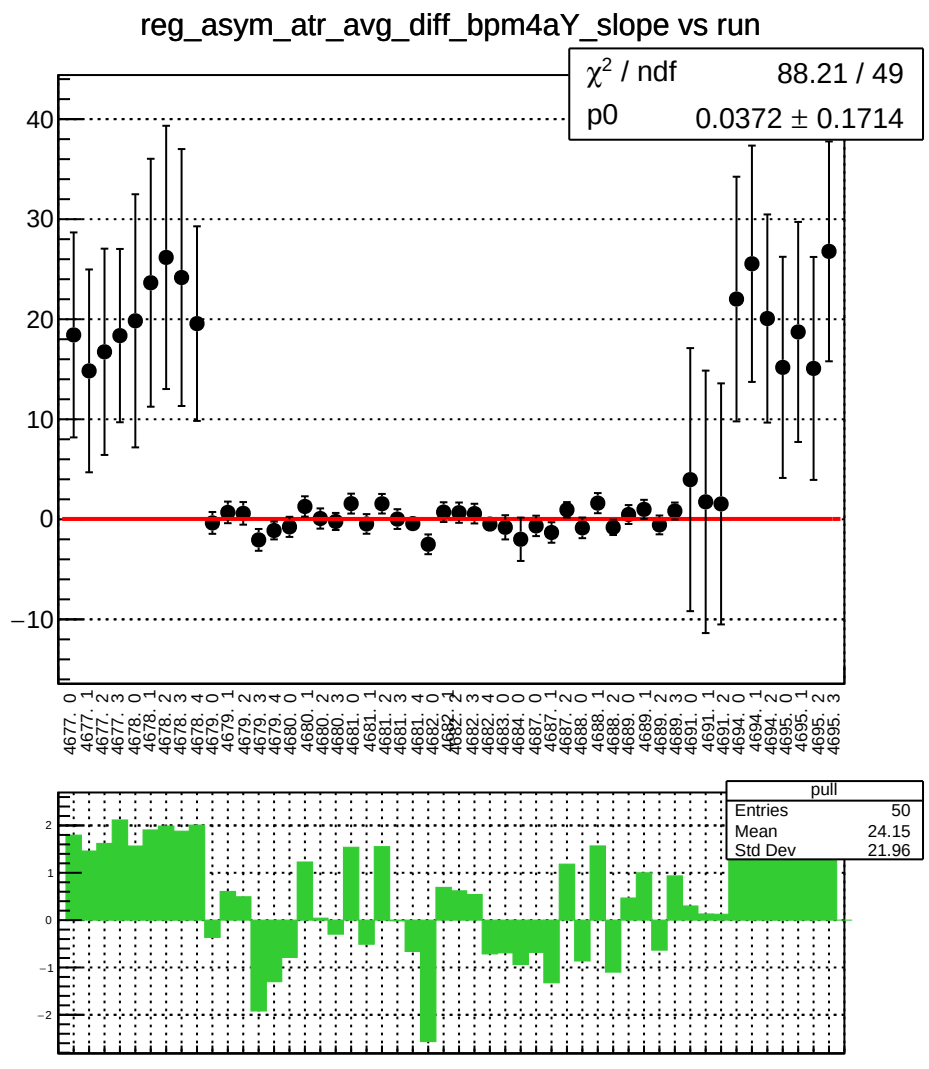

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 1081 / 49
p0 122.7 ± 0.7079
150
100
50
0
−50
pull
Entries 50
Mean 210.2
Std Dev 190.3
5
0
−5
−10
−15
pull1D
Entries 50
Mean 0.4277
Std Dev 3.538
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

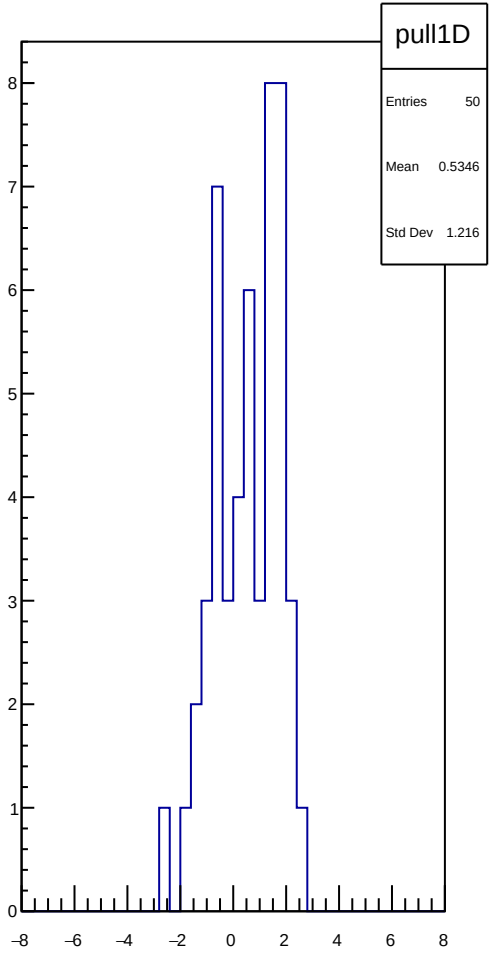

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.084 / 49
p0 −7.262 ± 4.276
pull
Entries 50
Mean 114.4
Std Dev 82.91

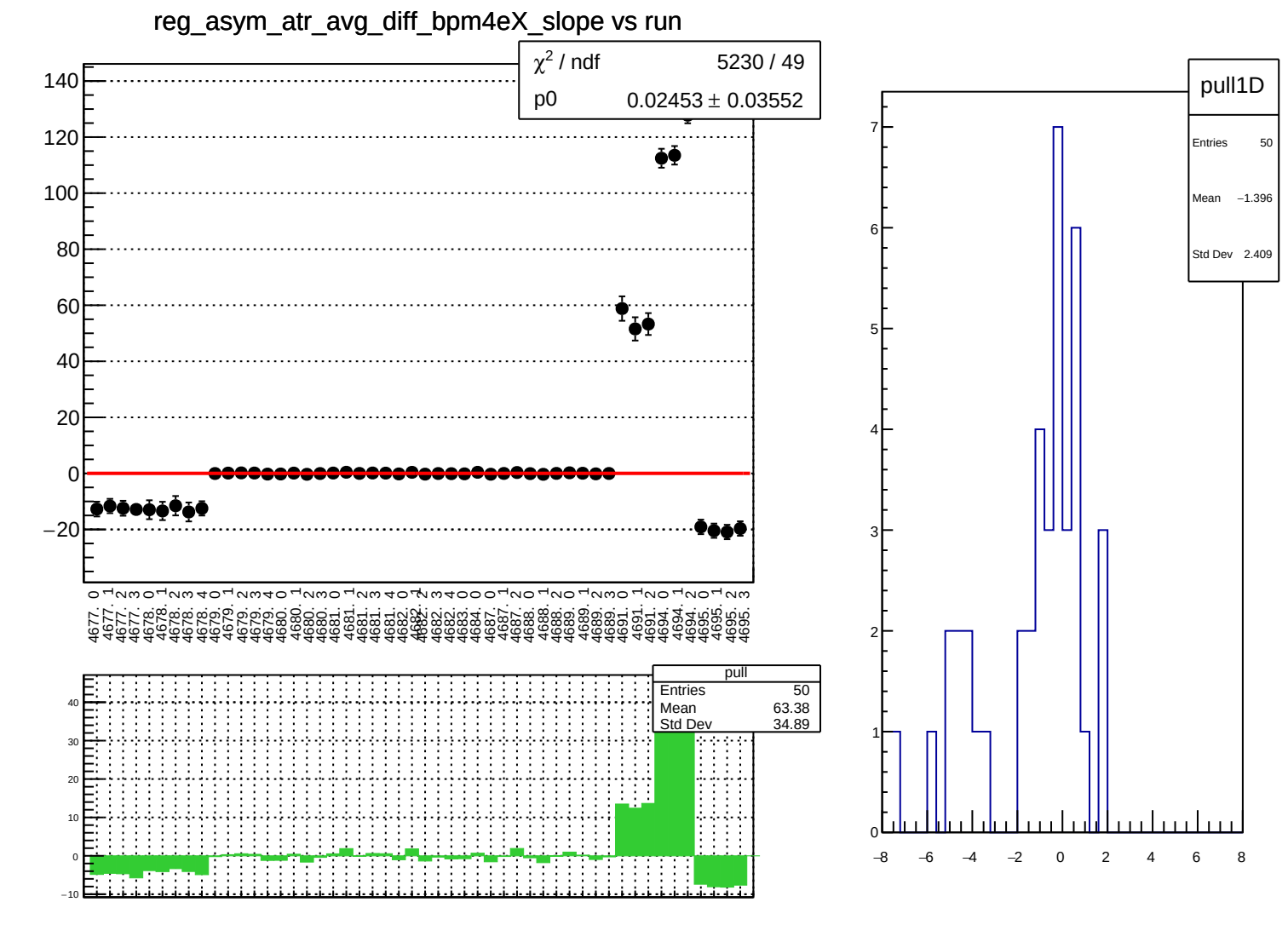

pull1D
Entries 50
Mean −0.009208
Std Dev 0.2482

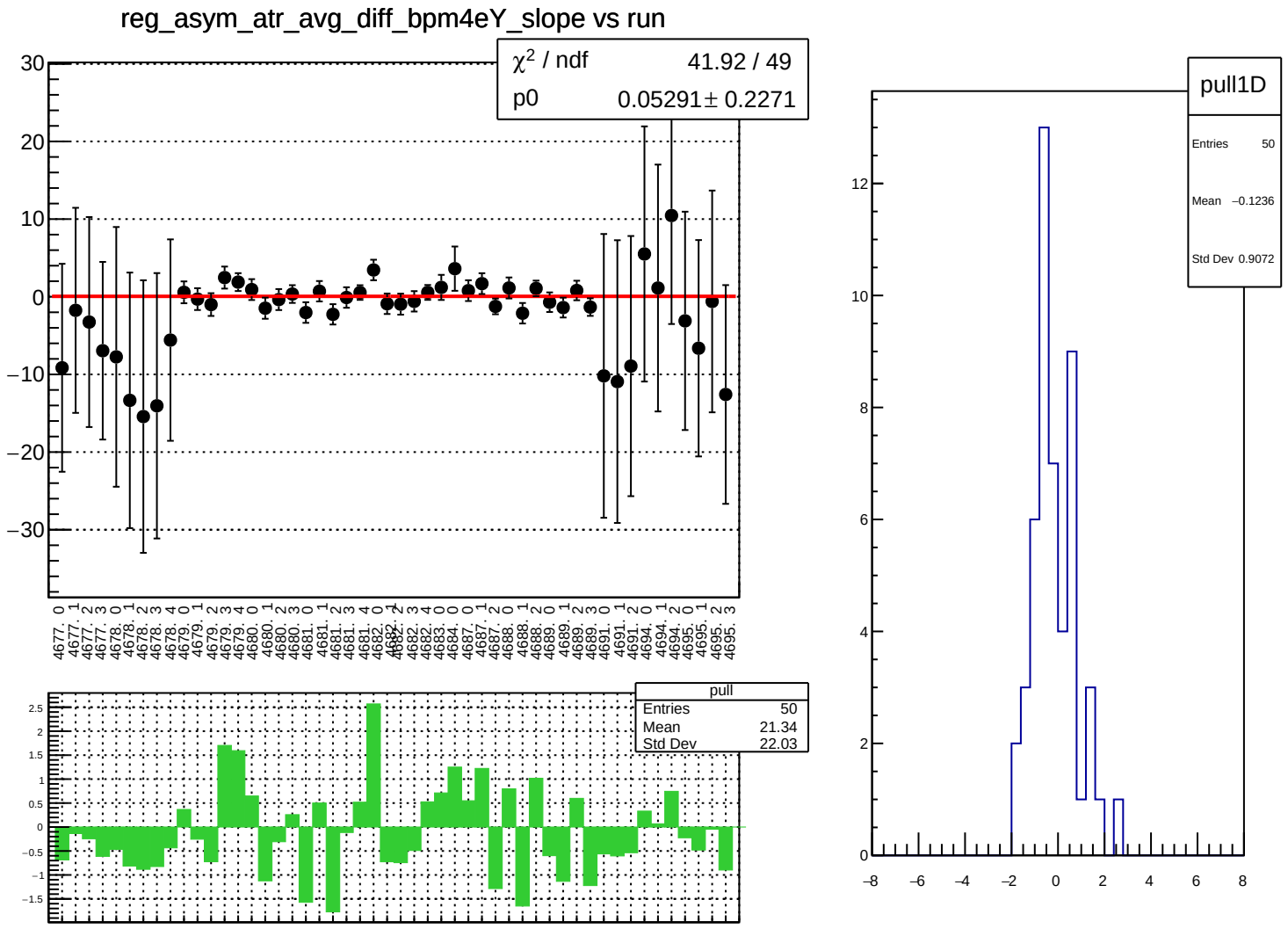

reg_asym_atl_dd_diff_bpm11X_slope vs run
χ² / ndf 1.05e+04 / 49
p0 105.6 ± 0.4626
pull
Entries 50
Mean 8.643
Std Dev 27.01
pull1D
Entries 50
Mean −6.382
Std Dev 2.11

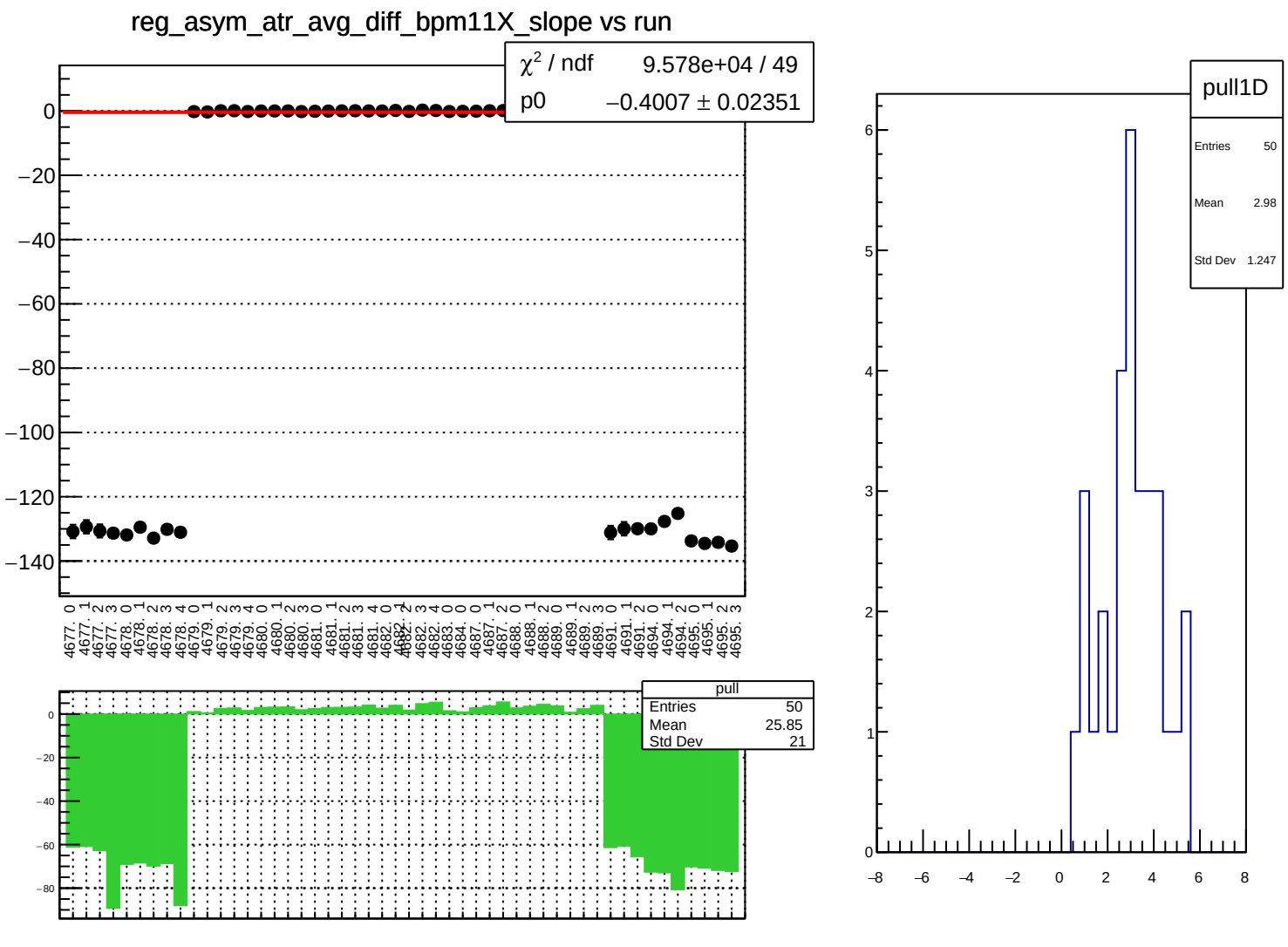

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 4850 / 49
p0 −0.4189 ± 0.1523
pull
Entries 50
Mean 37.25
Std Dev 15.75
pull1D
Entries 50
Mean −0.7283
Std Dev 1.987

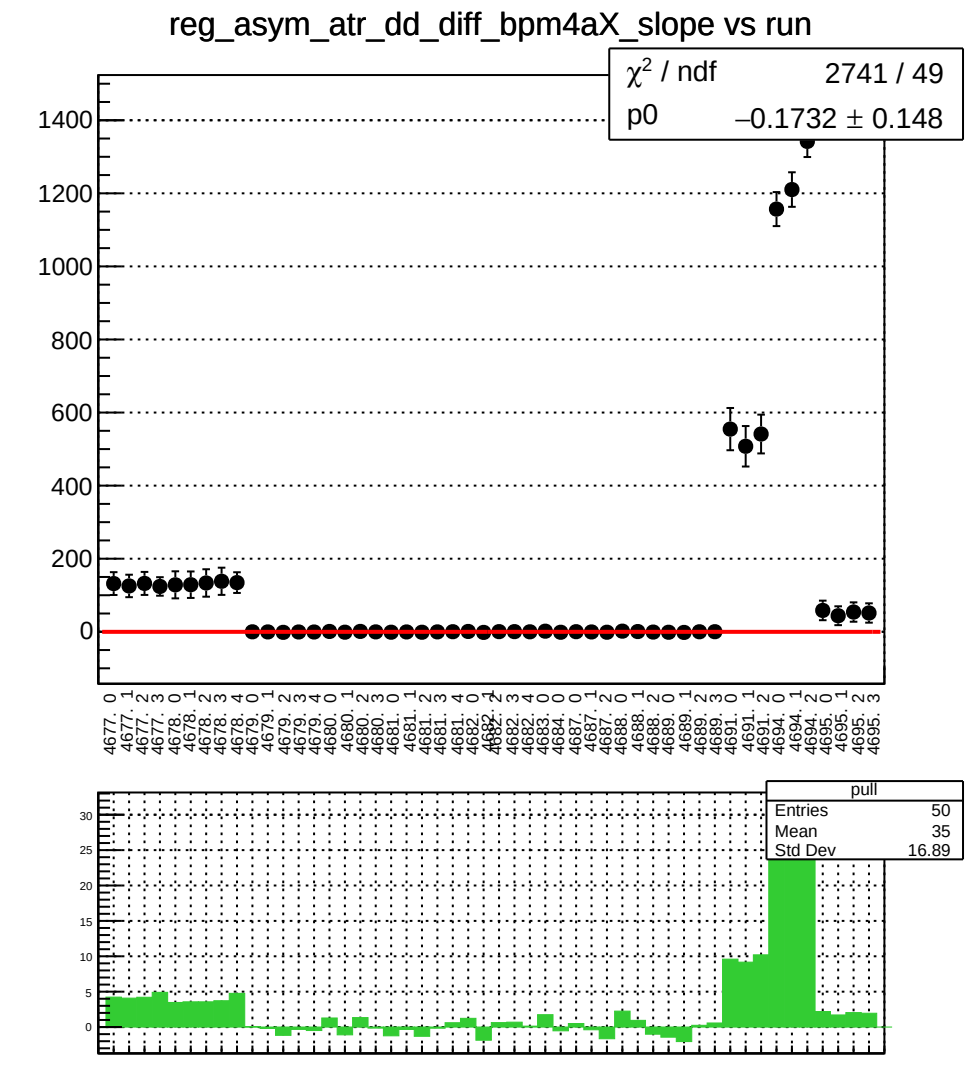

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 88.21 / 49
p0 0.0372 ± 0.1714
pull
Entries 50
Mean 24.15
Std Dev 21.96

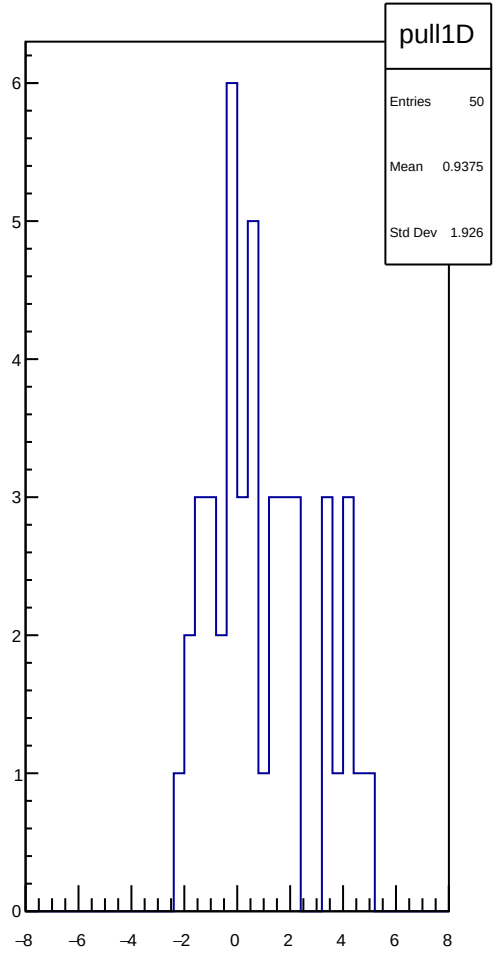

pull1D
Entries 50
Mean 0.5346
Std Dev 1.216

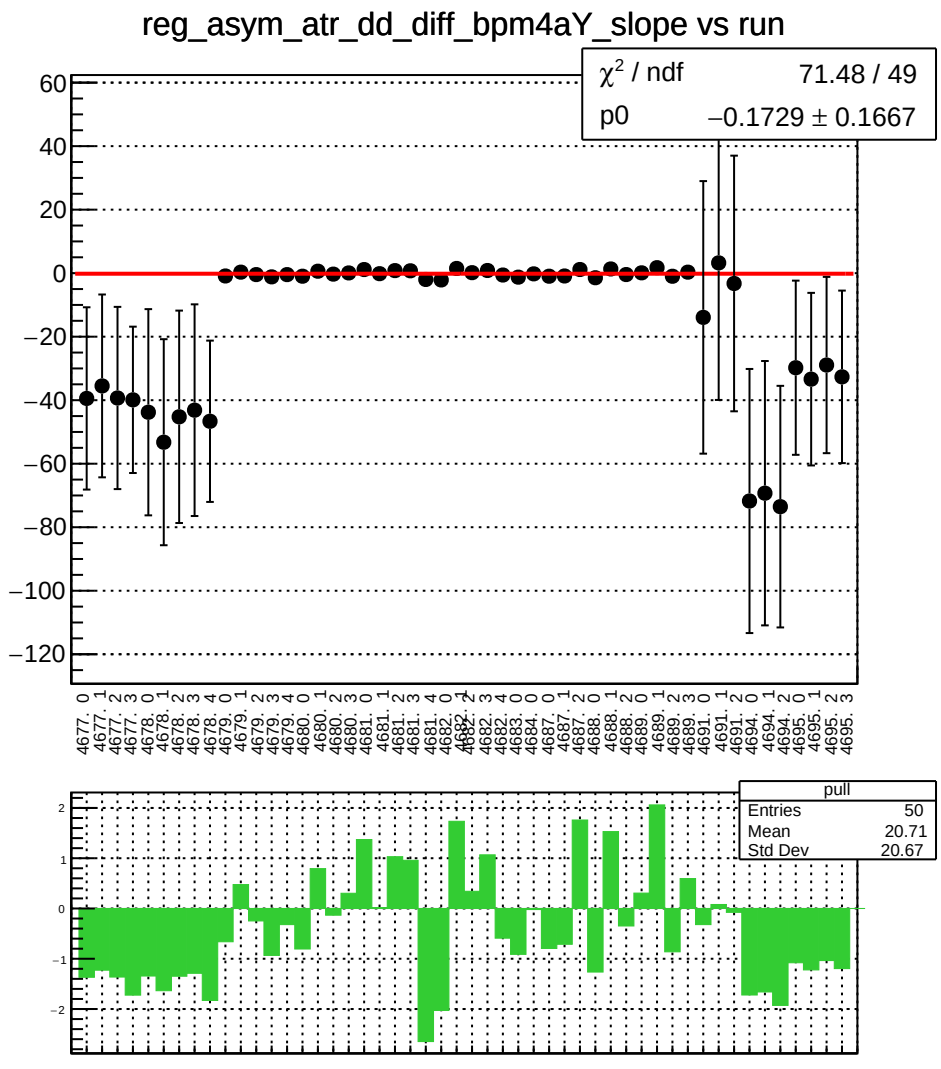

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 5230 / 49
p0 0.02453 ± 0.03552
pull
Entries 50
Mean 63.38
Std Dev 34.89
pull1D
Entries 50
Mean −1.396
Std Dev 2.409

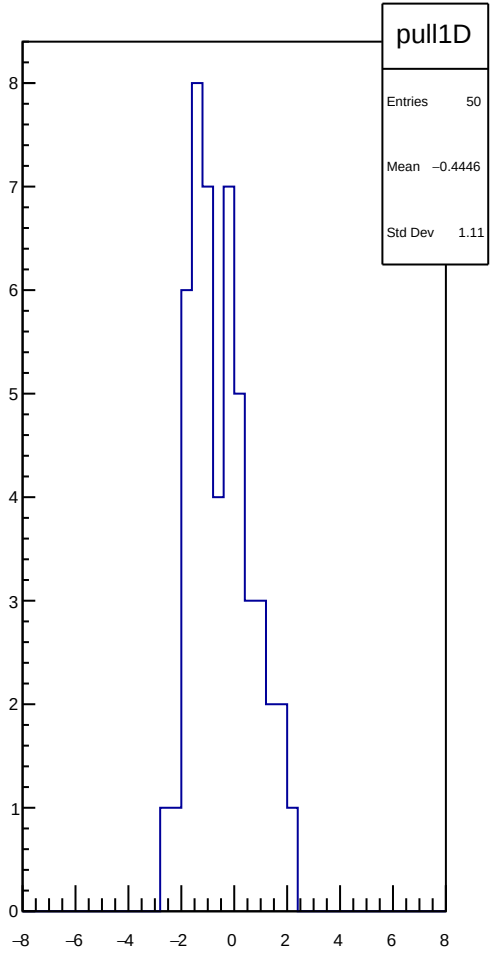

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.92 / 49
p0 0.05291 ± 0.2271
pull
Entries 50
Mean 21.34
Std Dev 22.03
pull1D
Entries 50
Mean −0.1236
Std Dev 0.9072

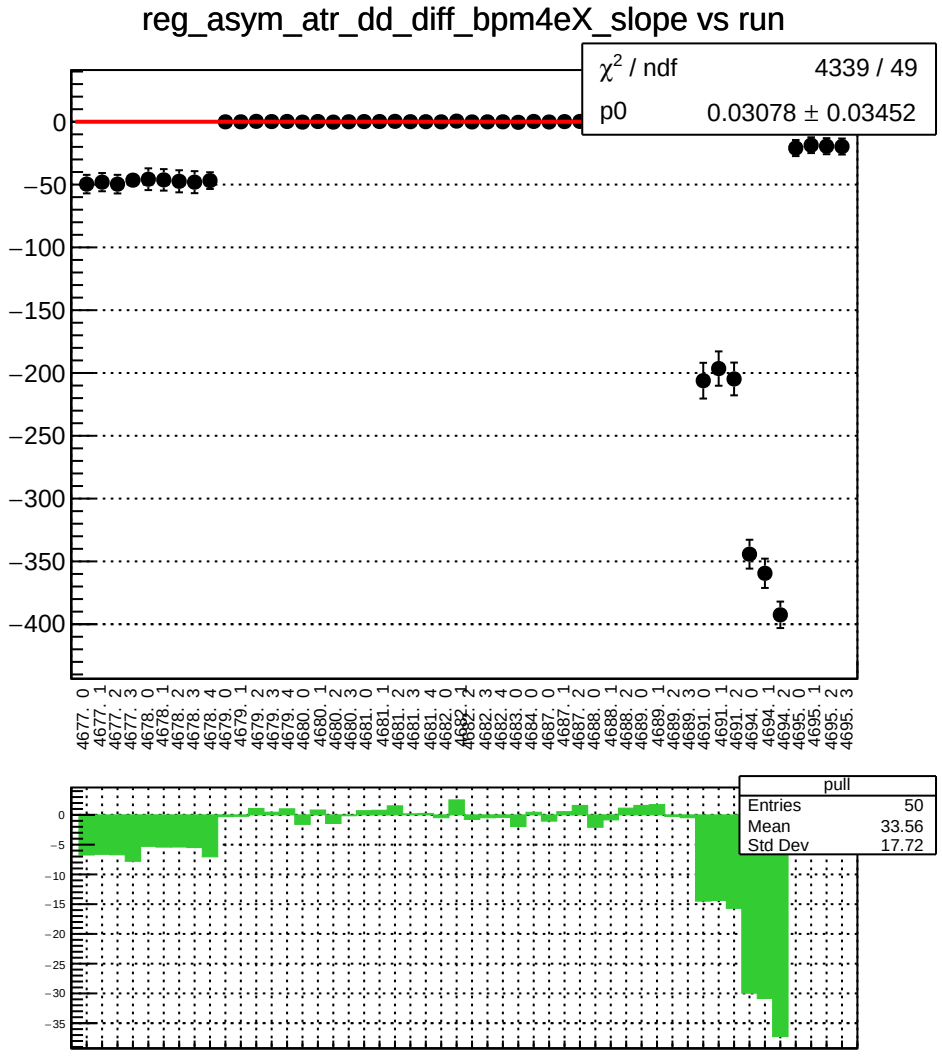

reg_asym_atr_avg_diff_bpm11X_slope vs run
χ² / ndf 9.578e+04 / 49
p0 −0.4007 ± 0.02351
pull
Entries 50
Mean 25.85
Std Dev 21
pull1D
Entries 50
Mean 2.98
Std Dev 1.247

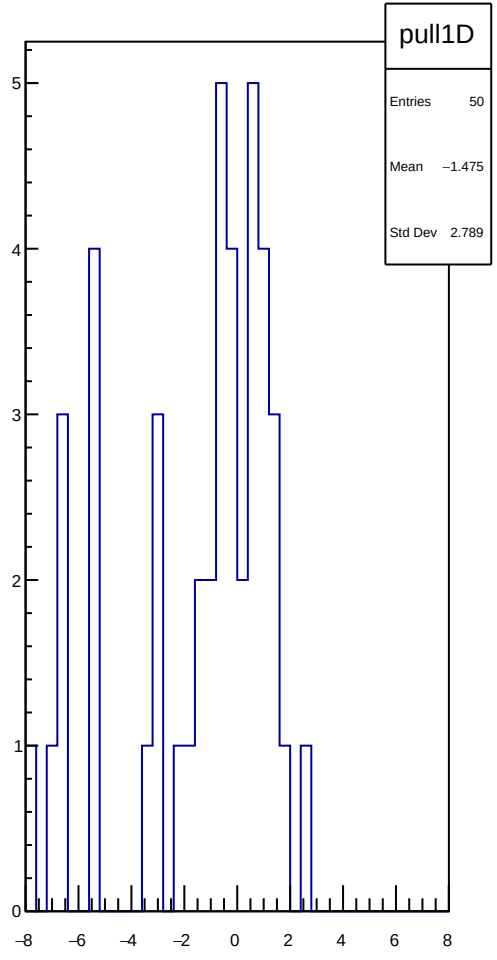

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 2741 / 49
p0 −0.1732 ± 0.148
pull
Entries 50
Mean 35
Std Dev 16.89

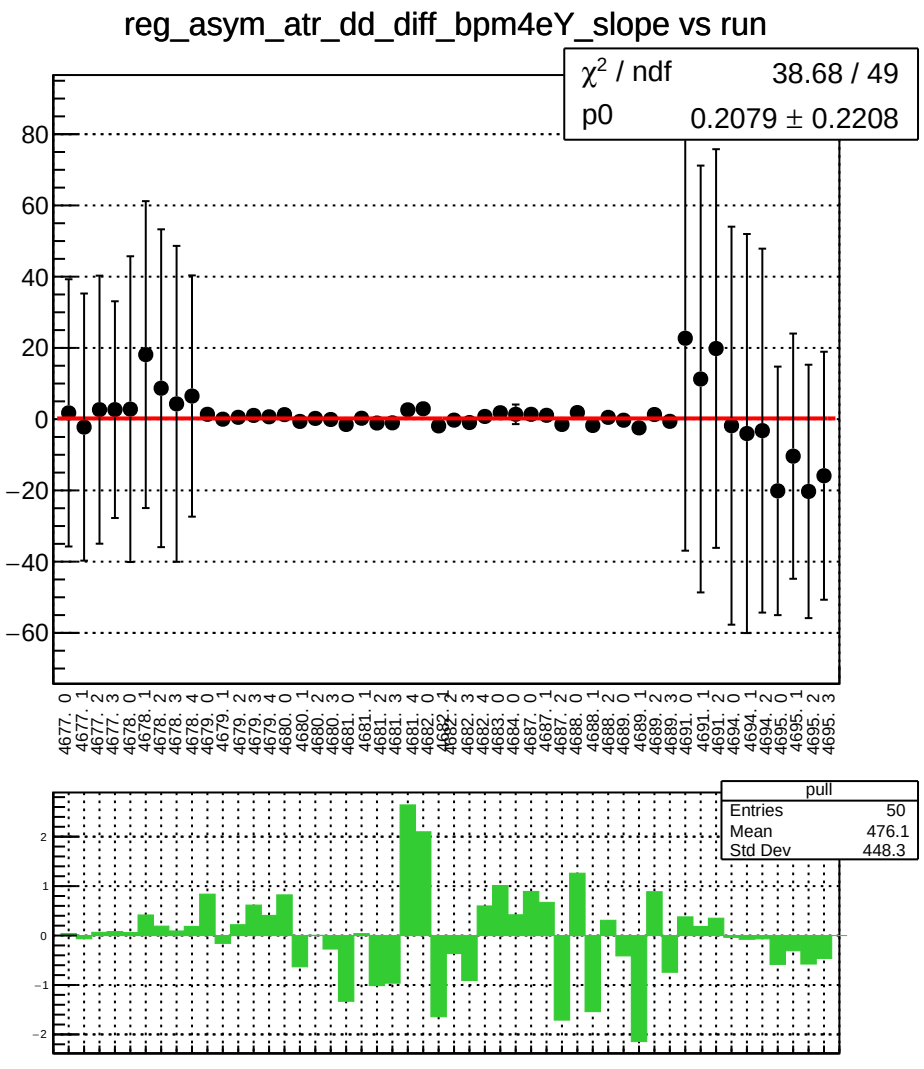

pull1D
Entries 50
Mean 0.9375
Std Dev 1.926

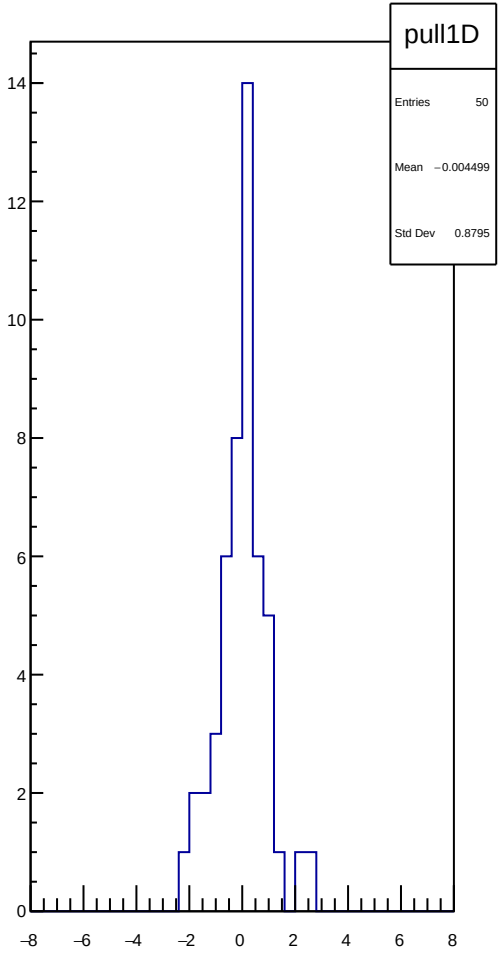

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 71.48 / 49
p0 −0.1729 ± 0.1667
pull
Entries 50
Mean 20.71
Std Dev 20.67

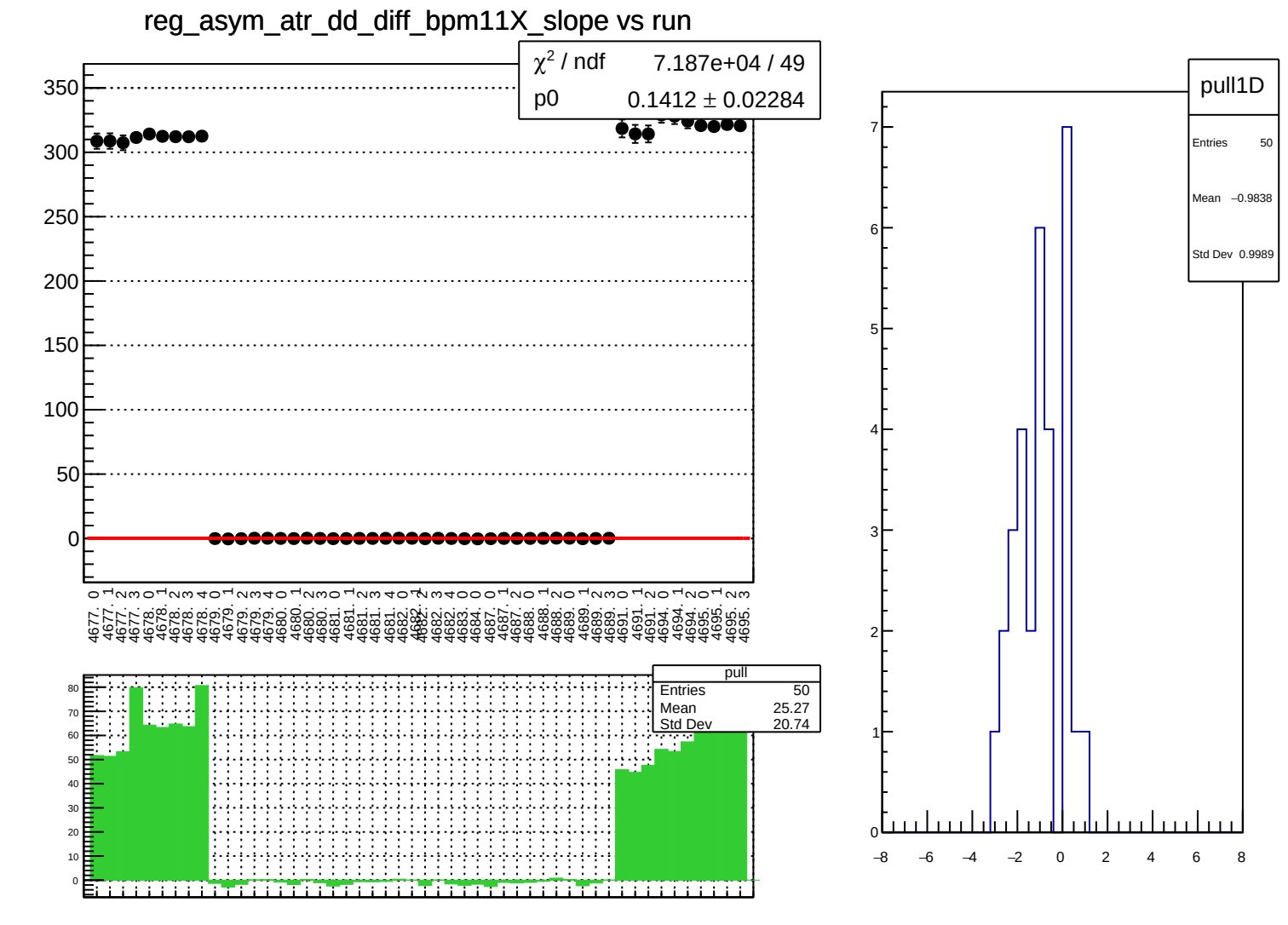

pull1D
Entries 50
Mean −0.4446
Std Dev 1.11

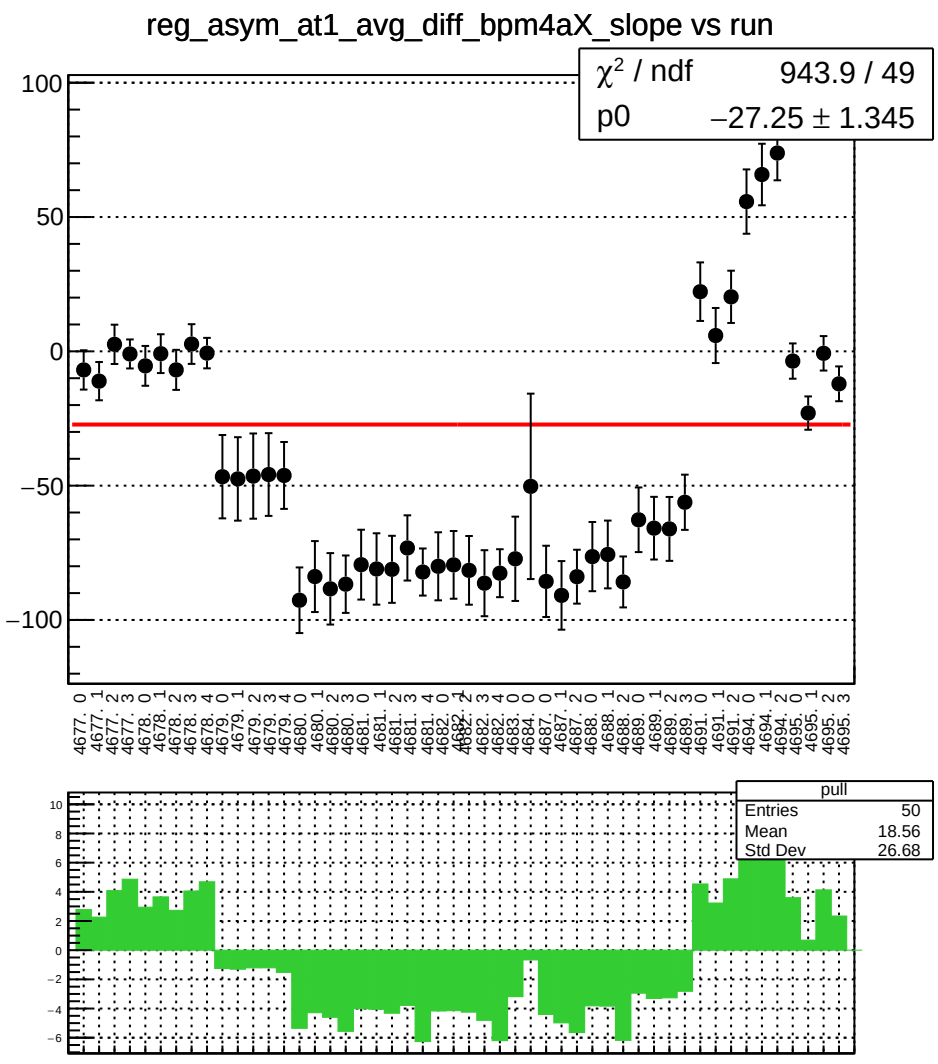

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 4339 / 49
p0 0.03078 ± 0.03452
pull
Entries 50
Mean 33.56
Std Dev 17.72

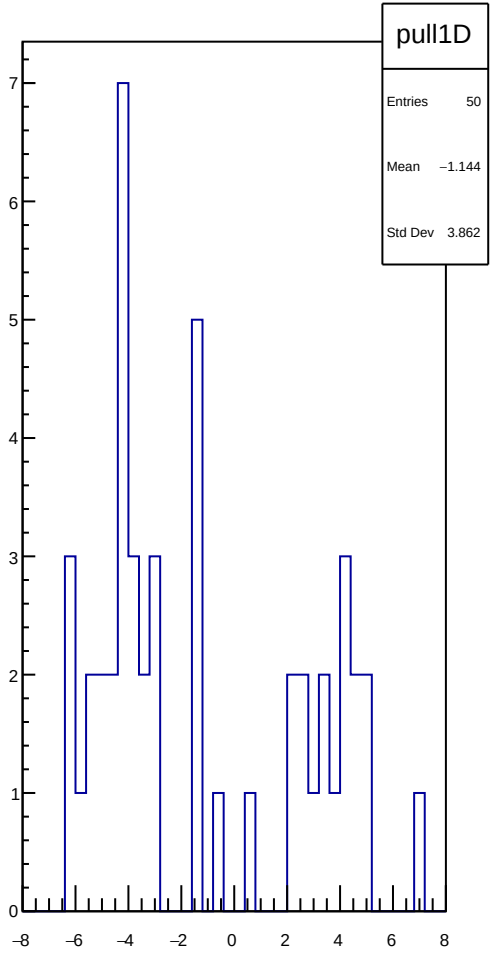

pull1D
Entries 50
Mean −1.475
Std Dev 2.789

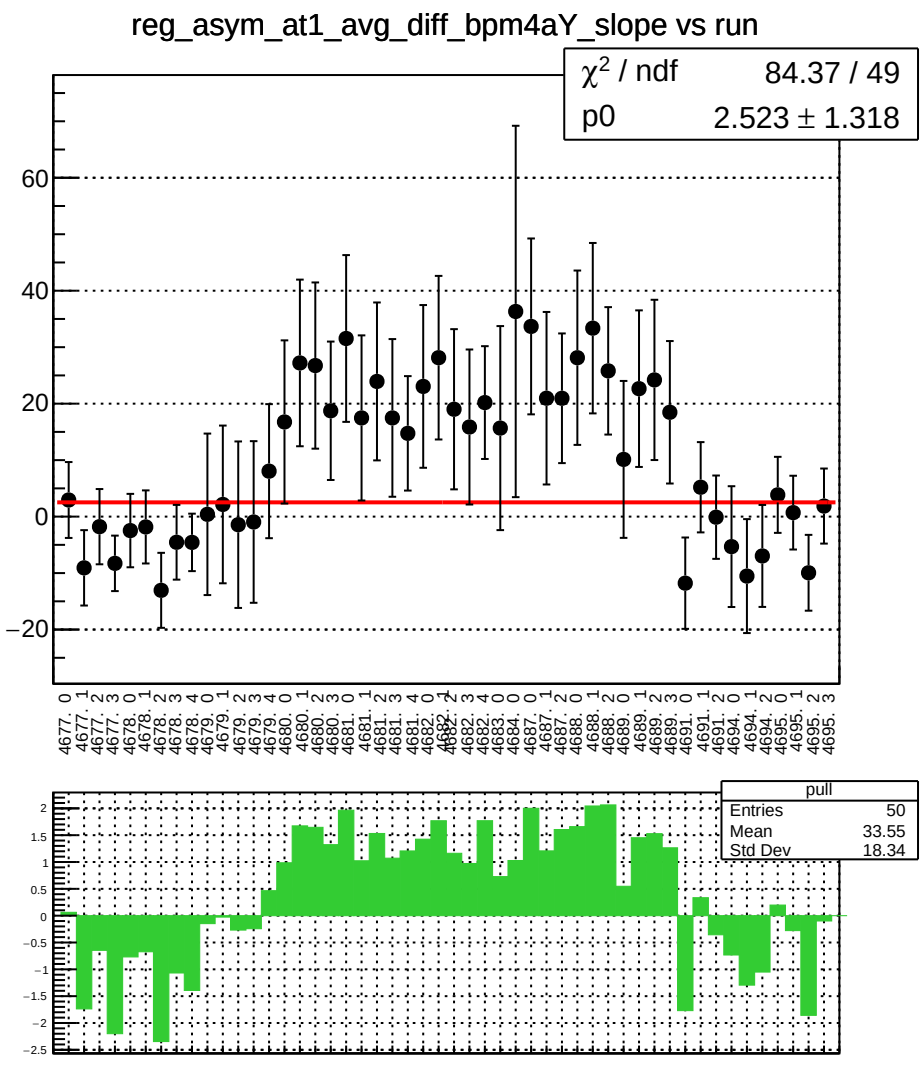

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.68 / 49
p0 0.2079 ± 0.2208
pull
Entries 50
Mean 476.1
Std Dev 448.3

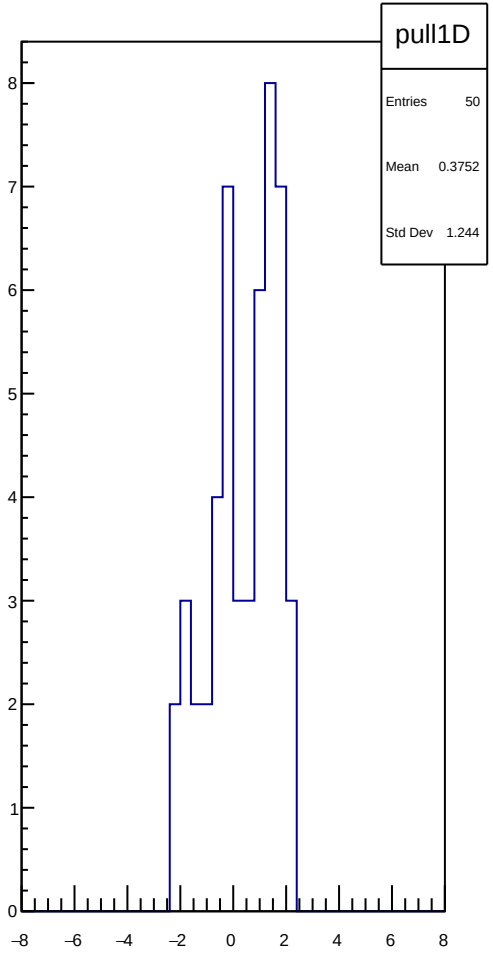

pull1D
Entries 50
Mean −0.004499
Std Dev 0.8795

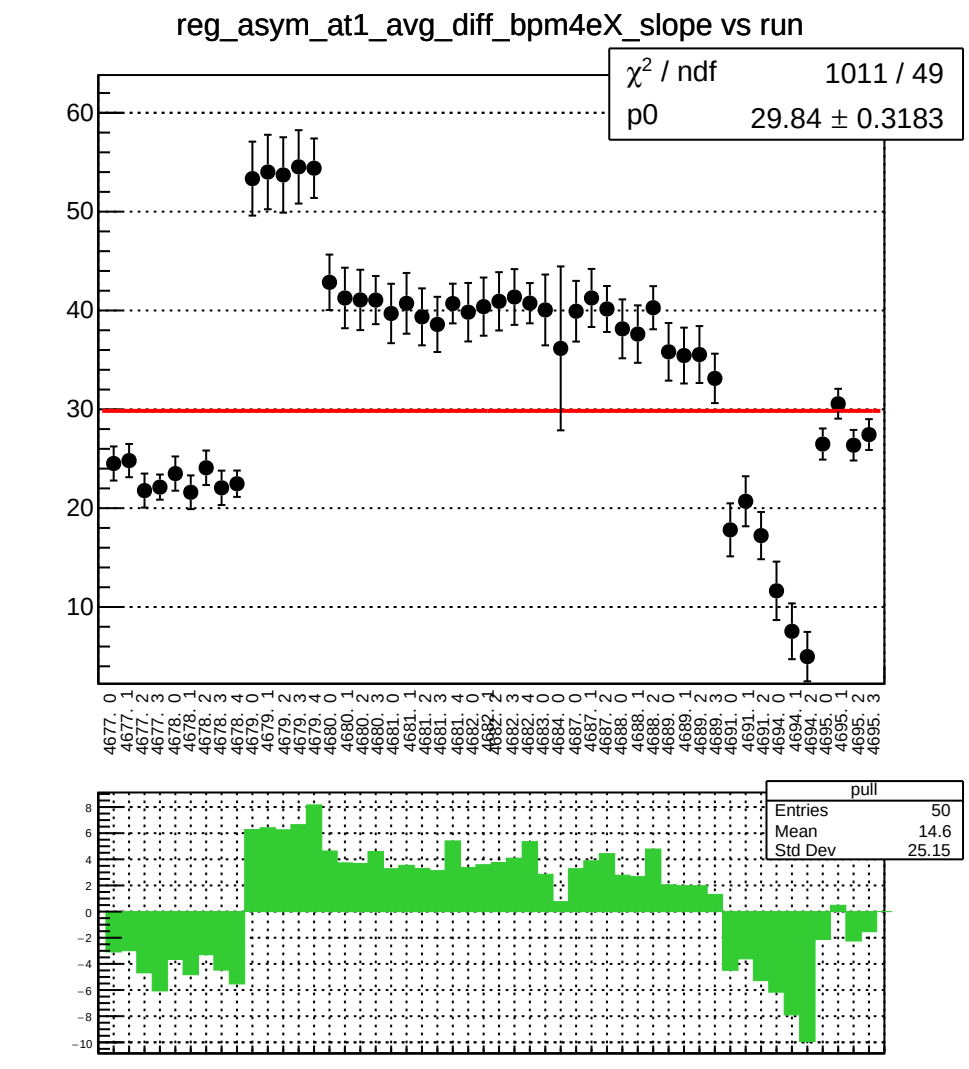

reg_asym_atr_dd_diff_bpm11X_slope vs run
χ² / ndf 7.187e+04 / 49
p0 0.1412 ± 0.02284
pull
Entries 50
Mean 25.27
Std Dev 20.74
pull1D
Entries 50
Mean −0.9838
Std Dev 0.9989

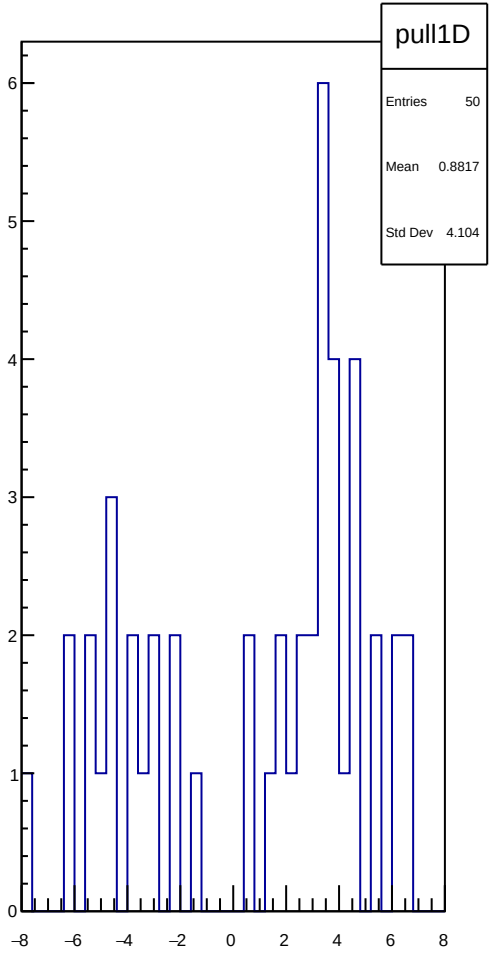

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 943.9 / 49
p0 −27.25 ± 1.345
pull
Entries 50
Mean 18.56
Std Dev 26.68

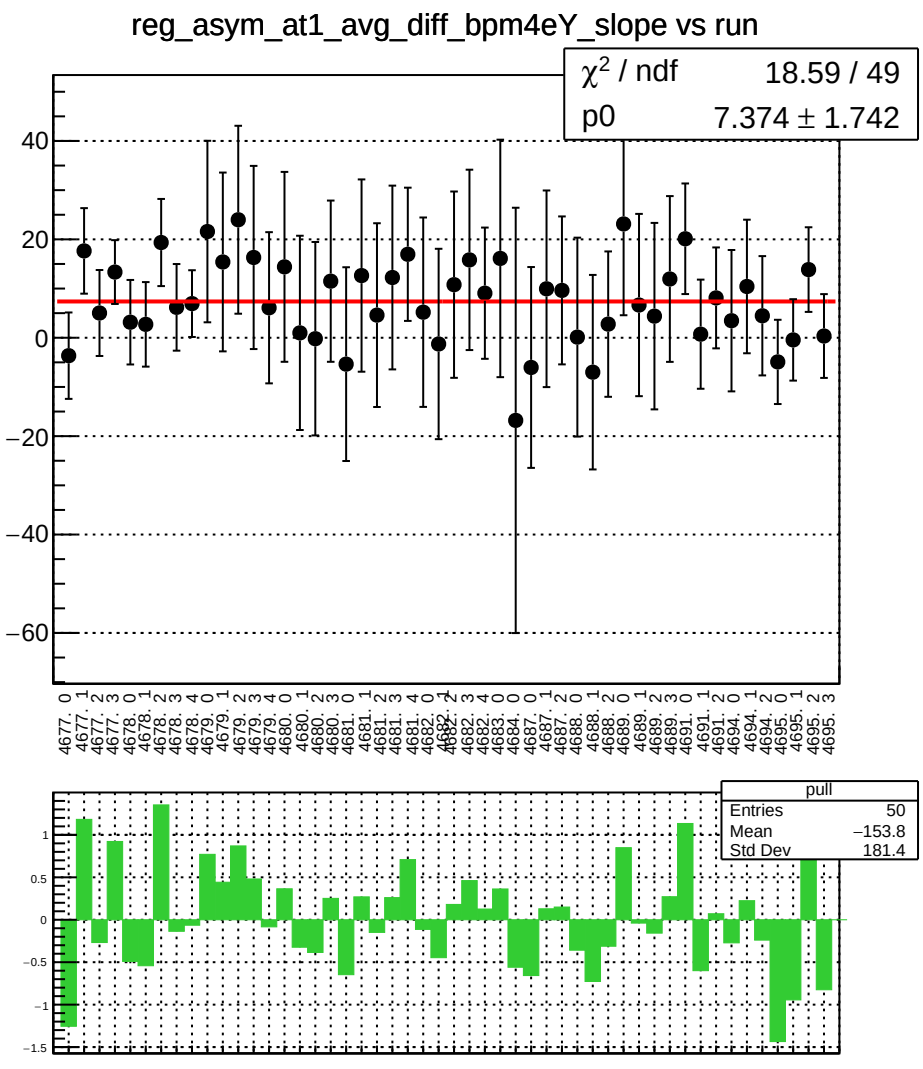

pull1D
Entries 50
Mean −1.144
Std Dev 3.862

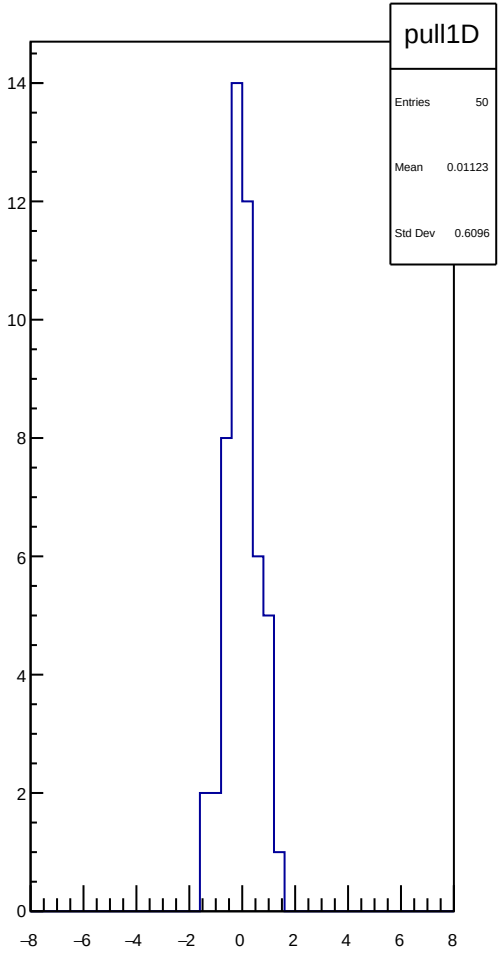

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 84.37 / 49
p0 2.523 ± 1.318
pull
Entries 50
Mean 33.55
Std Dev 18.34

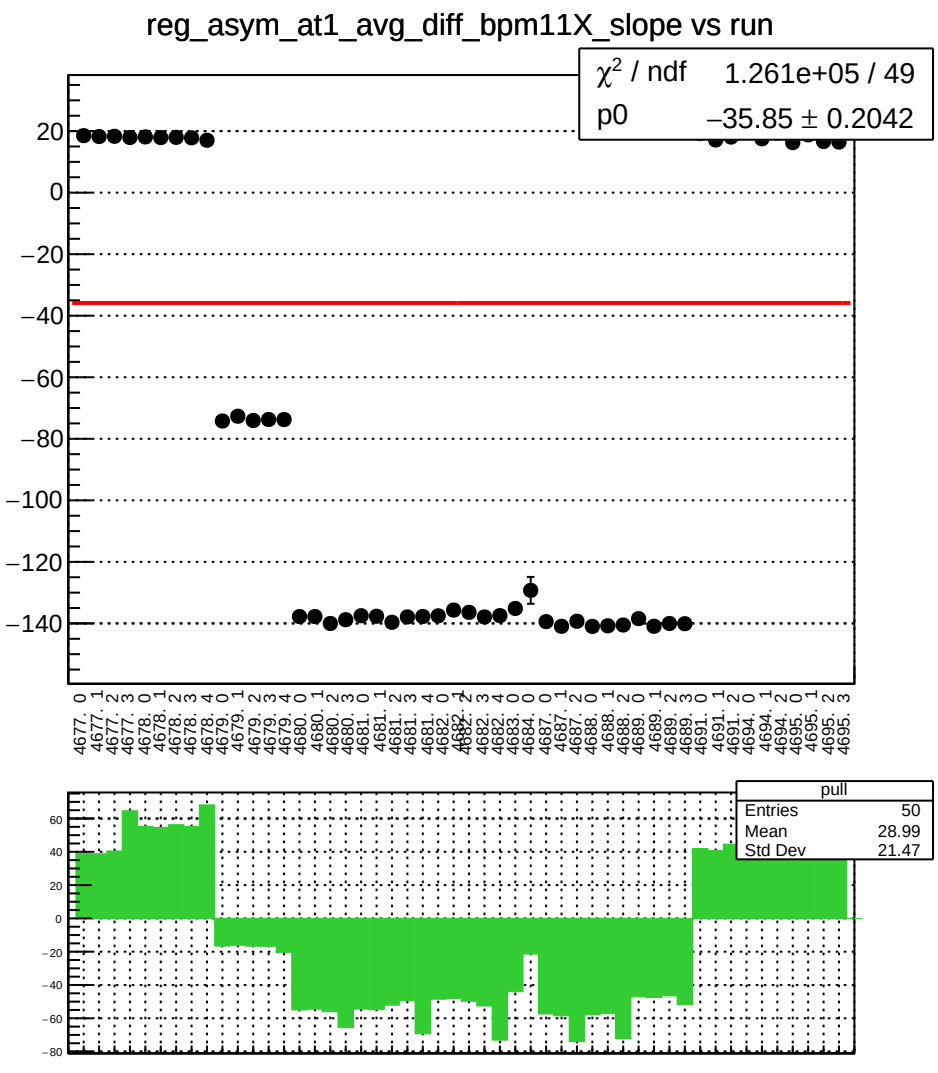

pull1D
Entries 50
Mean 0.3752
Std Dev 1.244

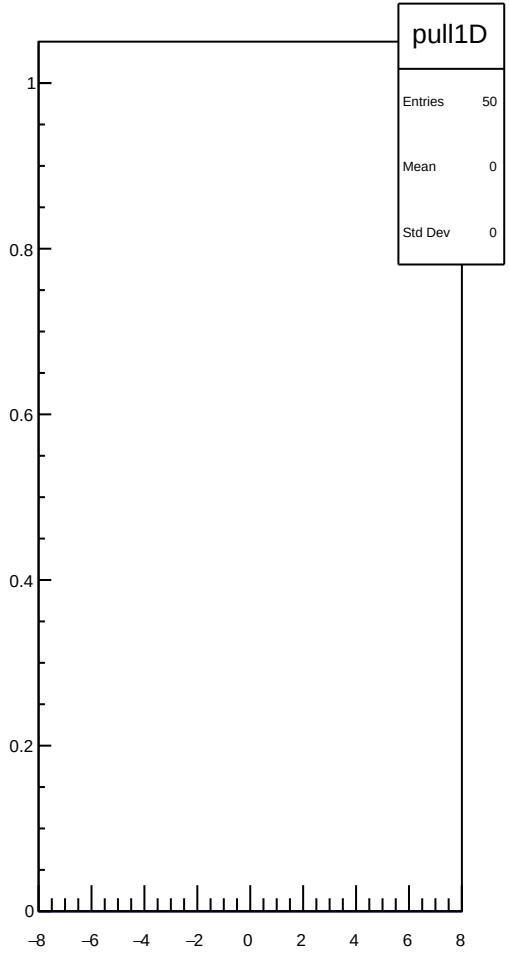

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 1011 / 49
p0 29.84 ± 0.3183
pull
Entries 50
Mean 14.6
Std Dev 25.15

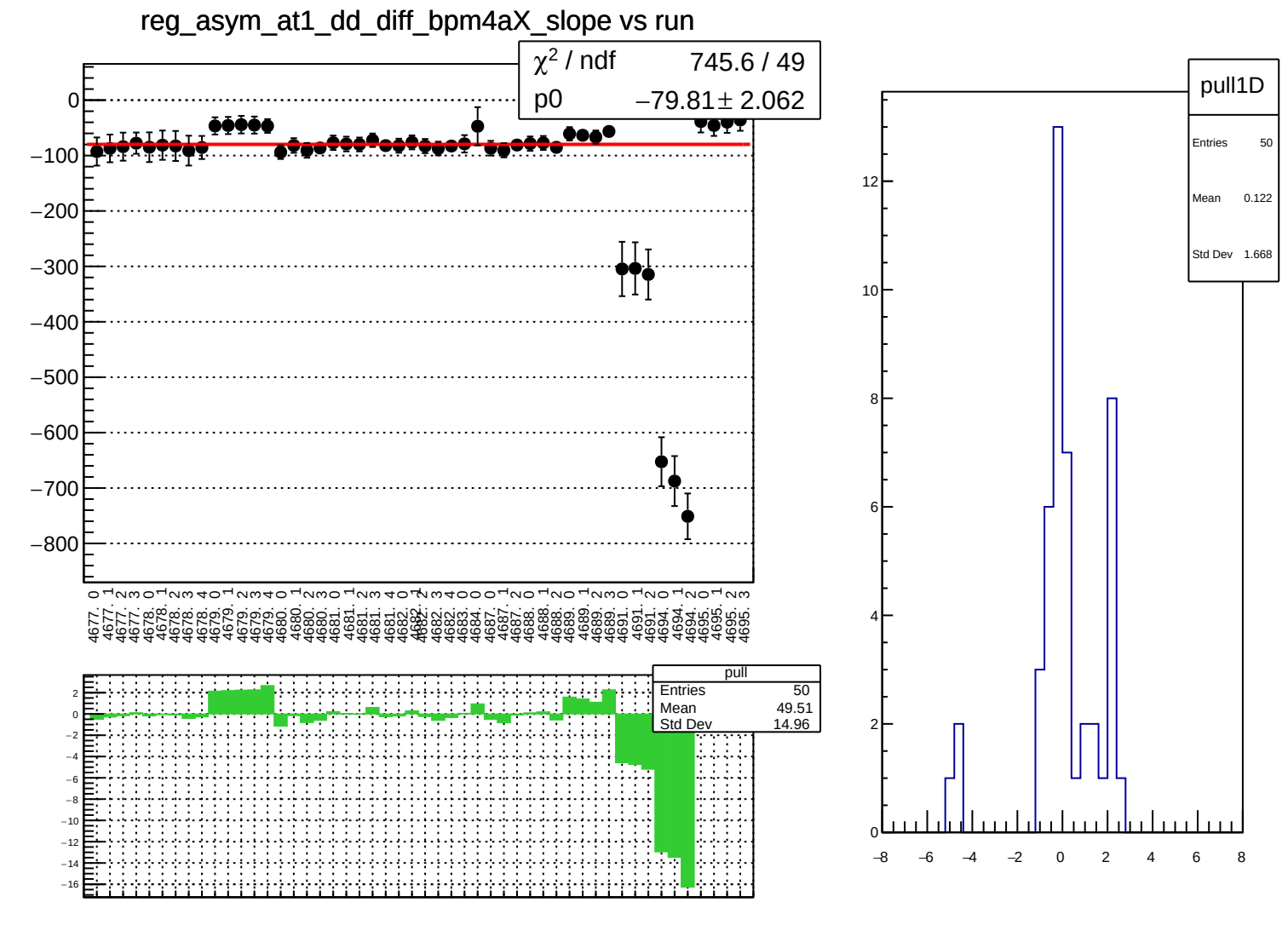

pull1D
Entries 50
Mean 0.8817
Std Dev 4.104

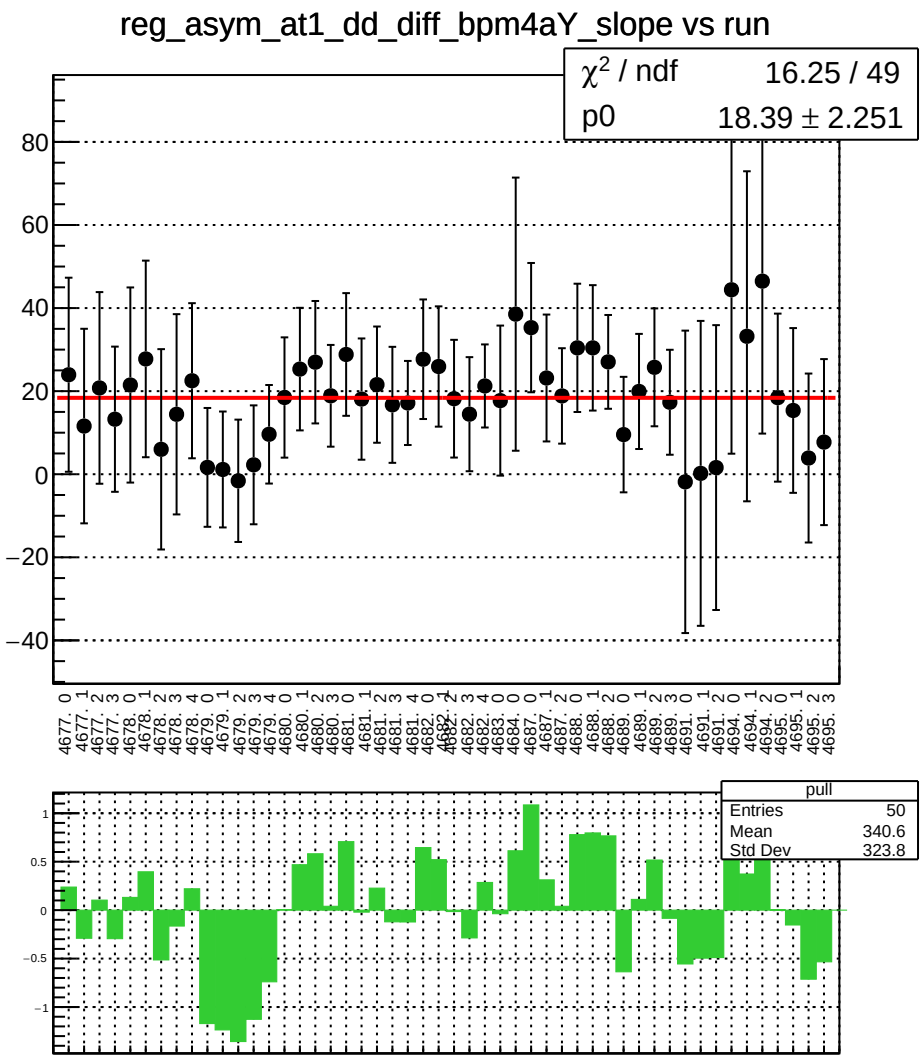

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.59 / 49
p0 7.374 ± 1.742
pull
Entries 50
Mean −153.8
Std Dev 181.4

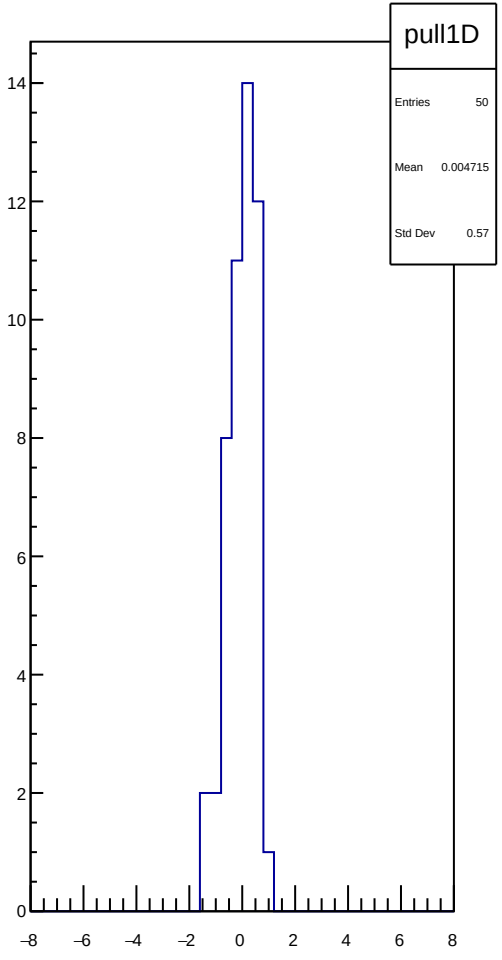

pull1D
Entries 50
Mean 0.01123
Std Dev 0.6096

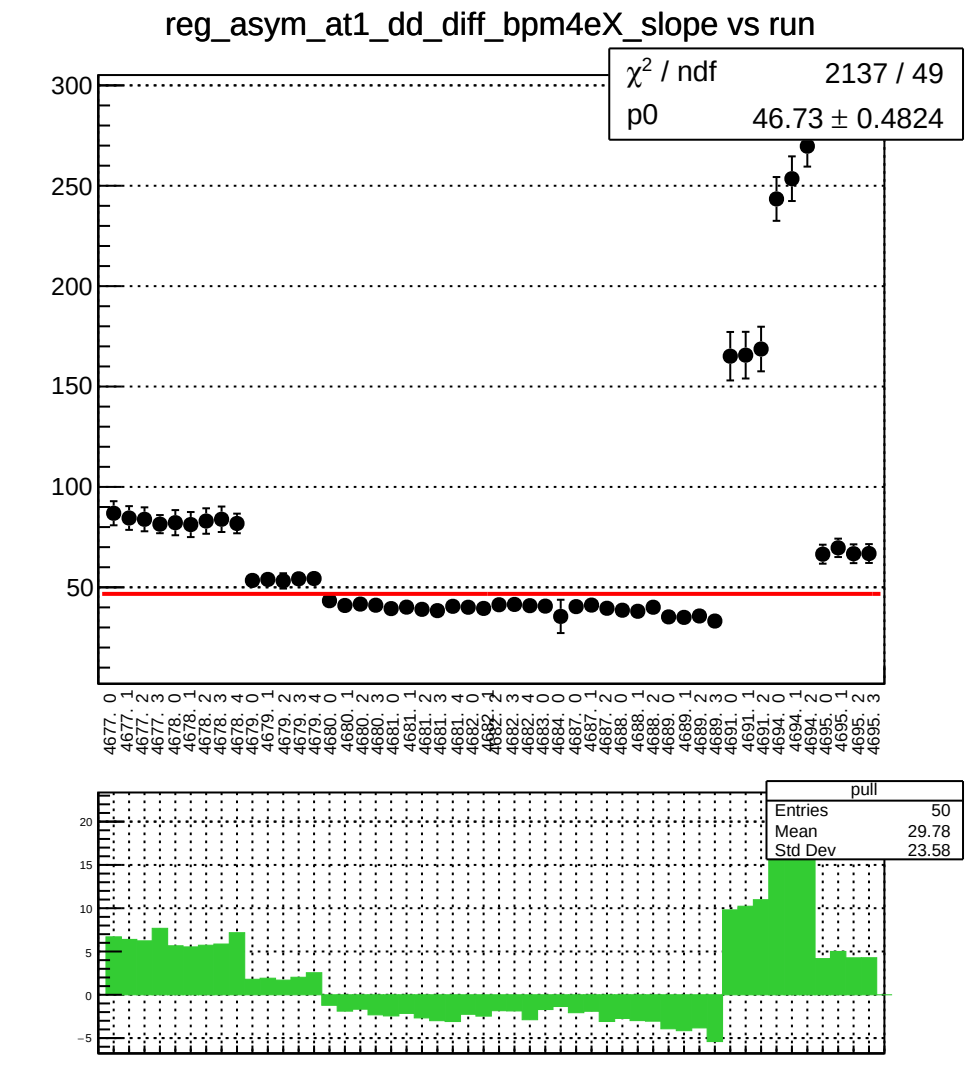

reg_asym_at1_avg_diff_bpm11X_slope vs run
χ² / ndf 1.261e+05 / 49
p0 −35.85 ± 0.2042
pull
Entries 50
Mean 28.99
Std Dev 21.47

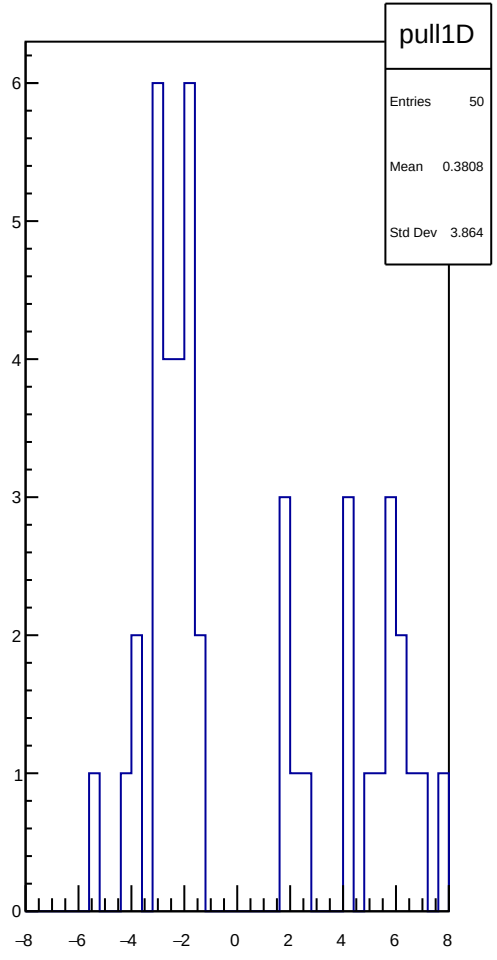

pull1D
Entries 50
Mean 0
Std Dev 0

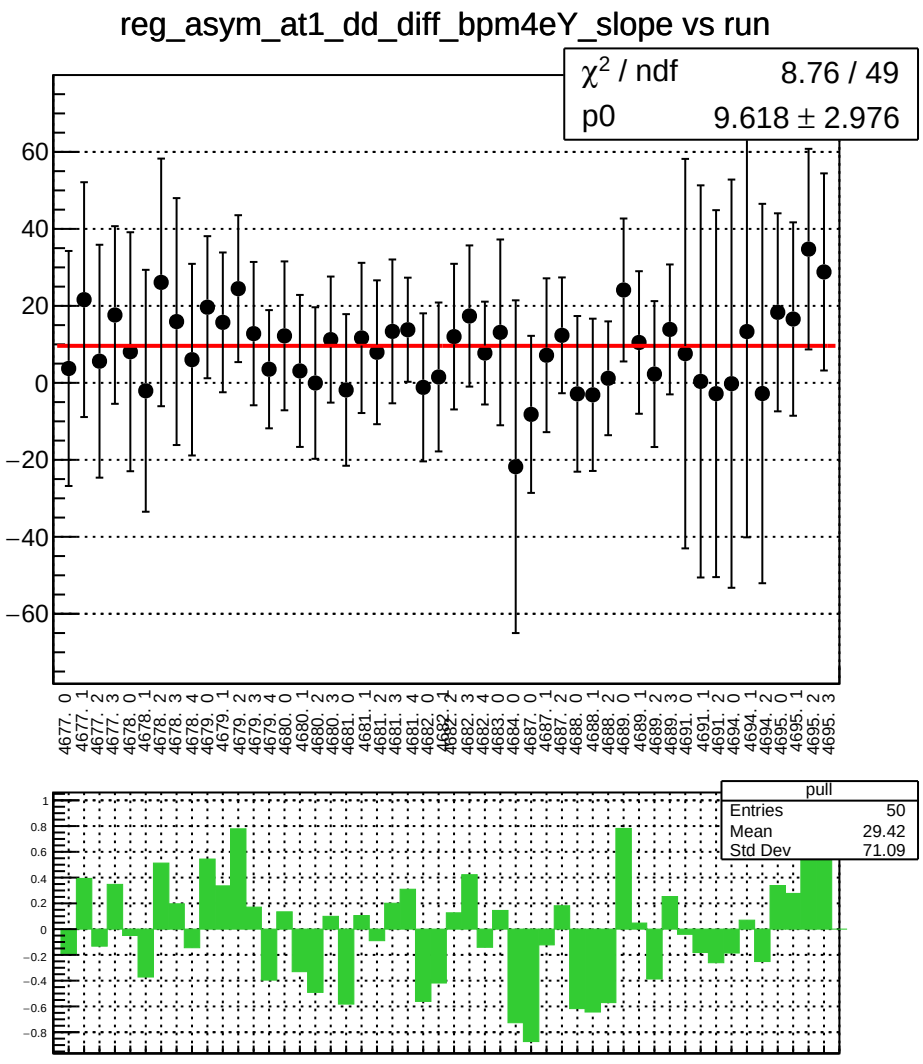

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 745.6 / 49
p0 −79.81 ± 2.062
pull
Entries 50
Mean 49.51
Std Dev 14.96
pull1D
Entries 50
Mean 0.122
Std Dev 1.668

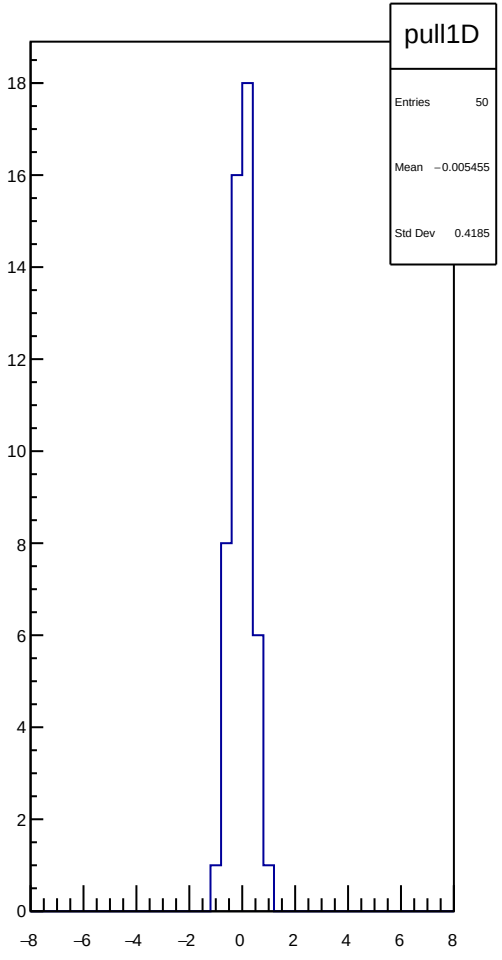

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.25 / 49
p0 18.39 ± 2.251
pull
Entries 50
Mean 340.6
Std Dev 323.8

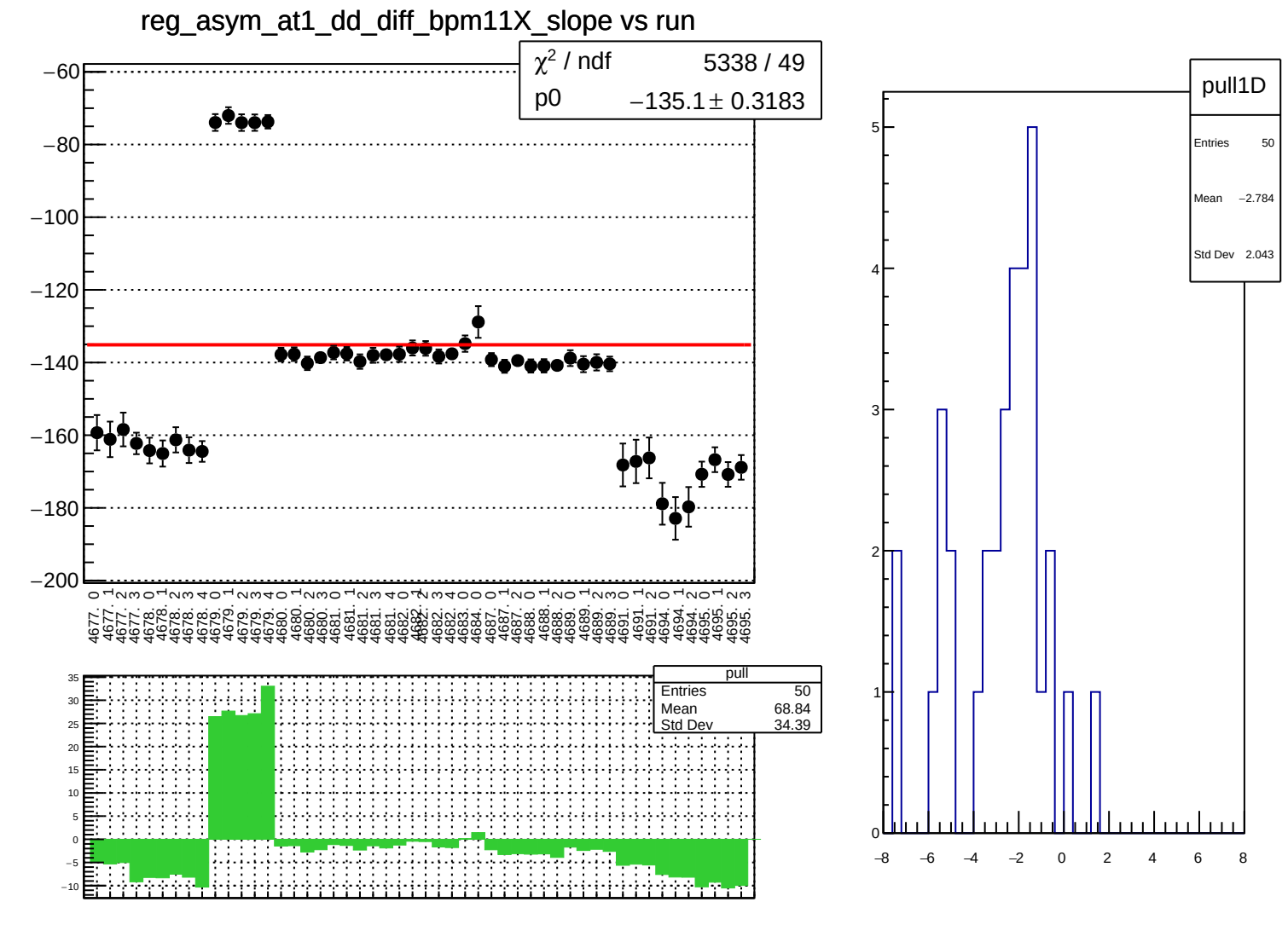

pull1D
Entries 50
Mean 0.004715
Std Dev 0.57

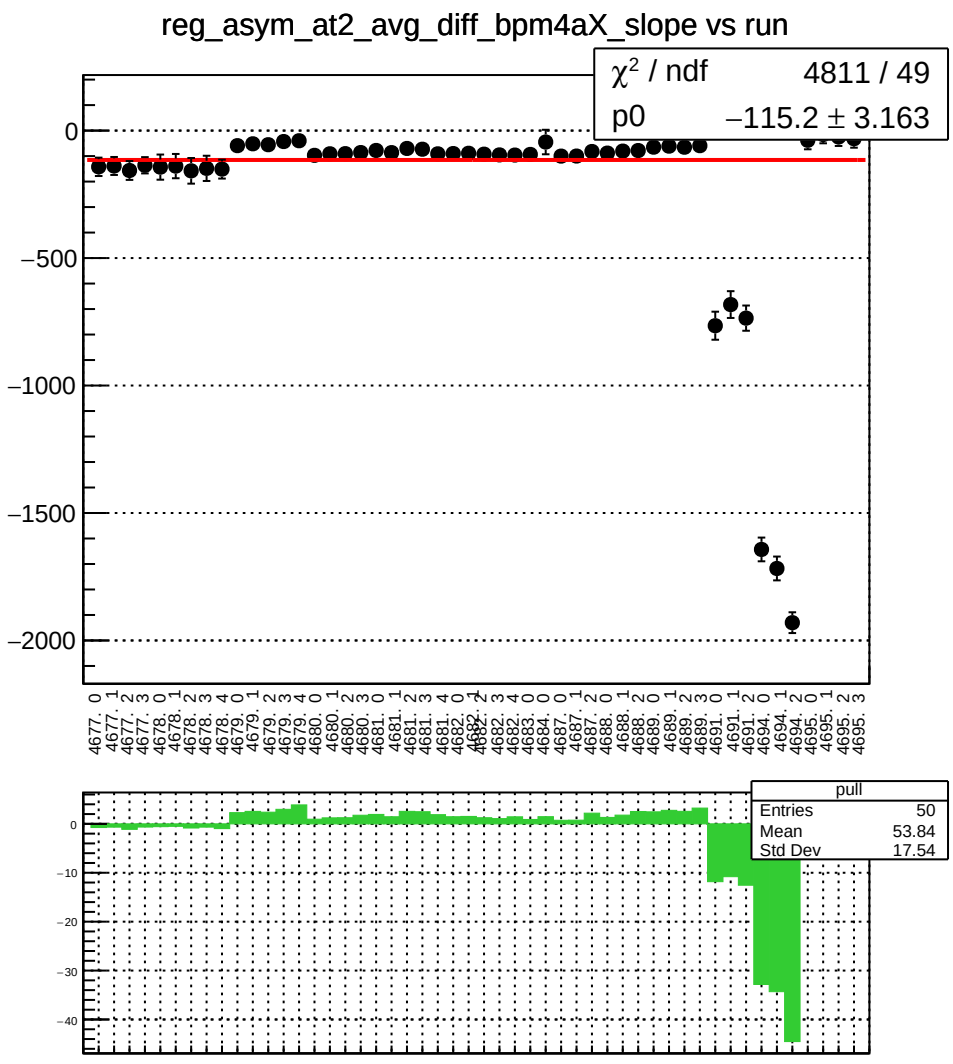

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 2137 / 49
p0 46.73 ± 0.4824
300
250
200
150
100
50
pull
Entries 50
Mean 29.78
Std Dev 23.58
20
15
10
5
0
−5

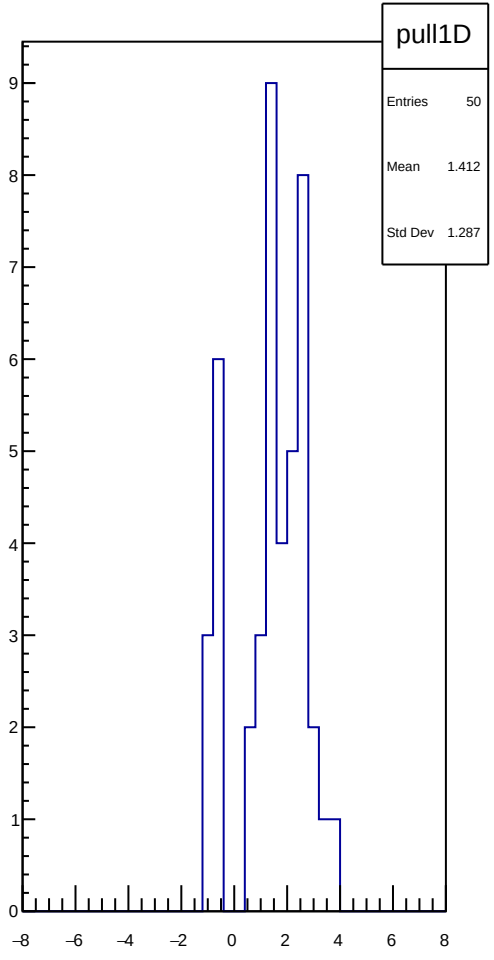

pull1D
Entries 50
Mean 0.3808
Std Dev 3.864
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

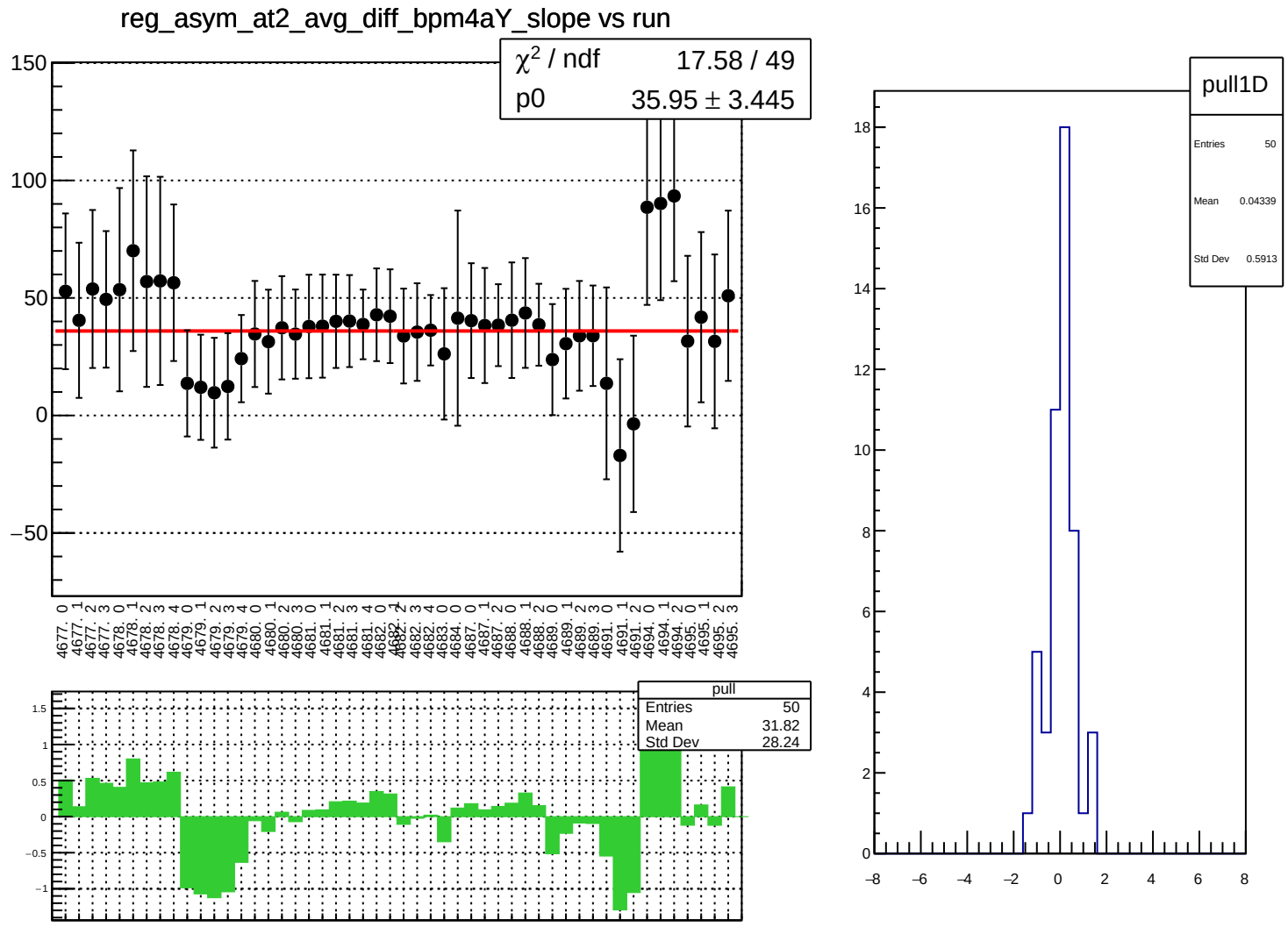

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.76 / 49
p0 9.618 ± 2.976
pull
Entries 50
Mean 29.42
Std Dev 71.09

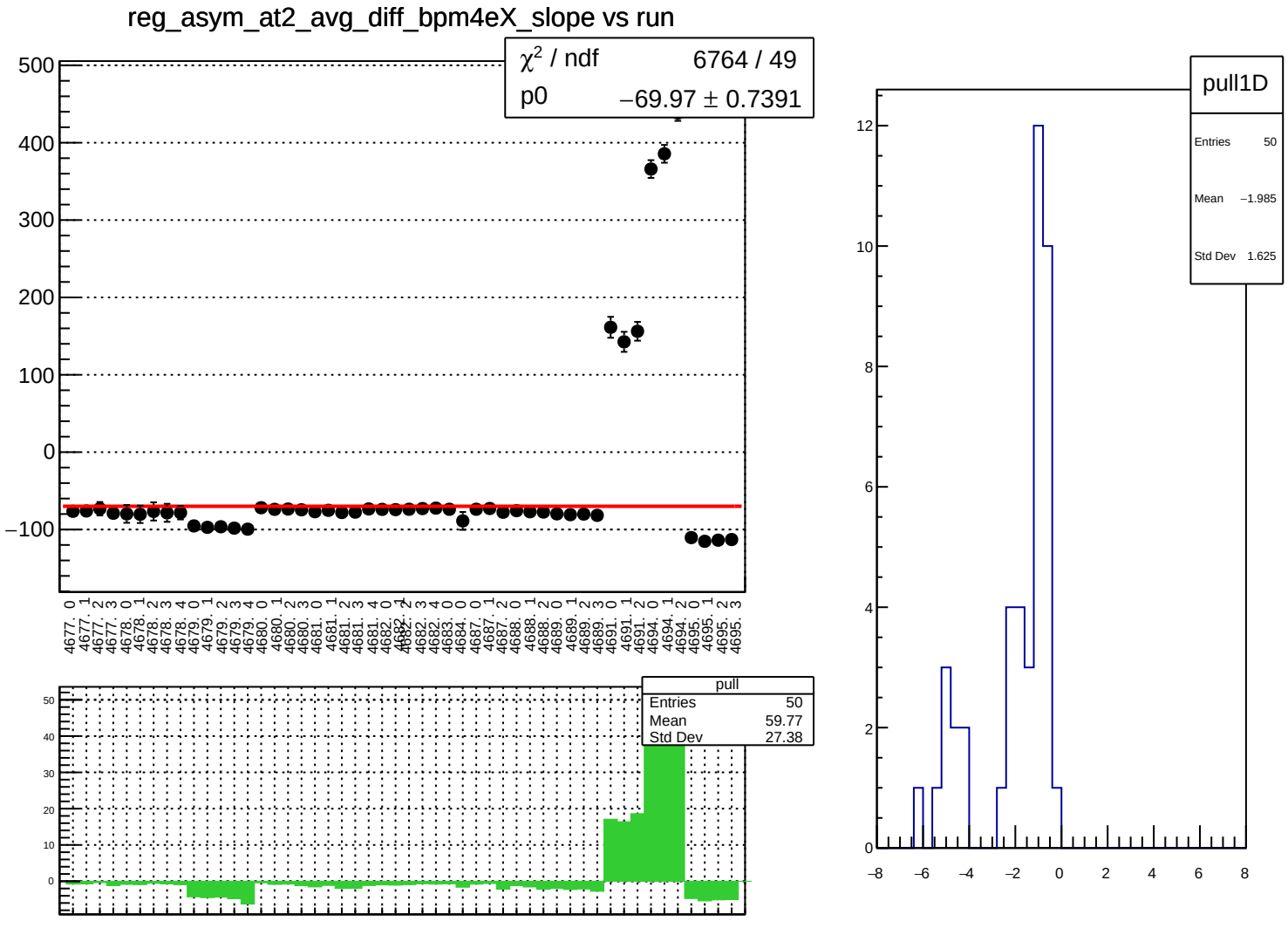

pull1D
Entries 50
Mean −0.005455
Std Dev 0.4185

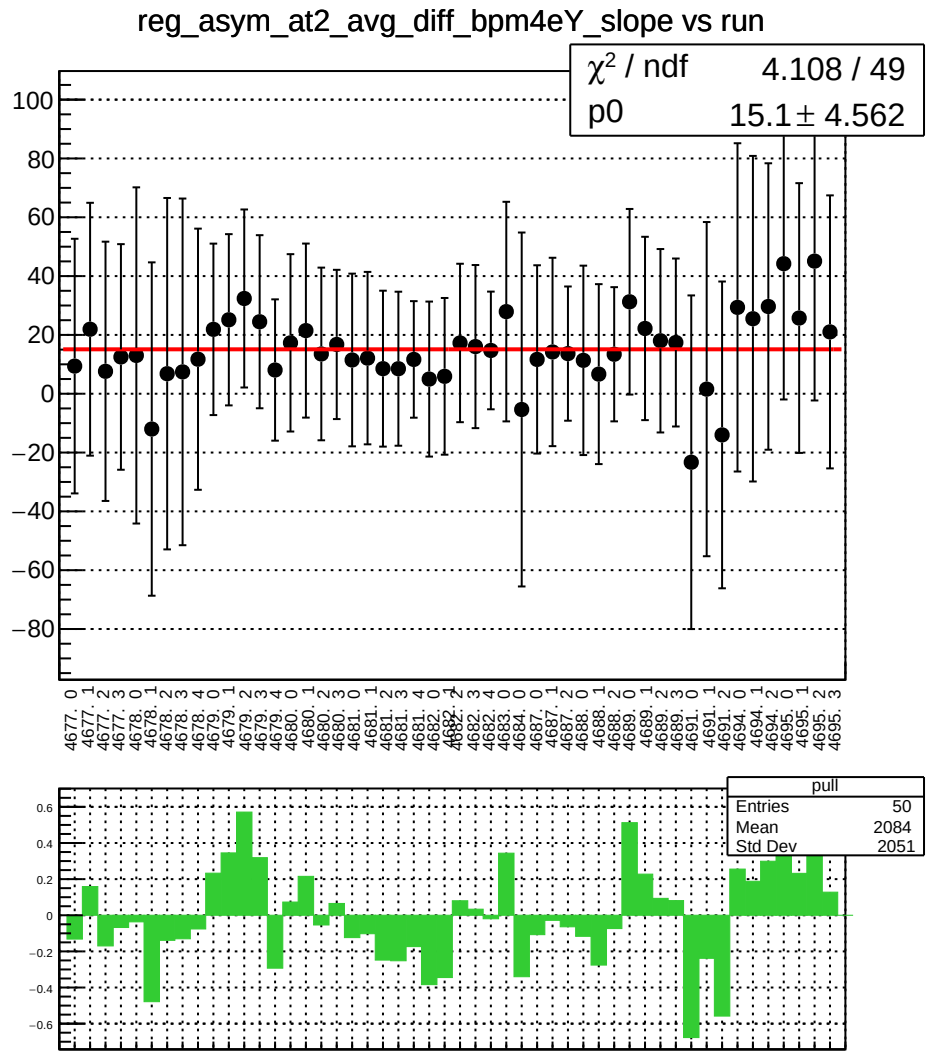

reg_asym_at1_dd_diff_bpm11X_slope vs run
χ² / ndf 5338 / 49
p0 −135.1 ± 0.3183
pull
Entries 50
Mean 68.84
Std Dev 34.39
pull1D
Entries 50
Mean −2.784
Std Dev 2.043

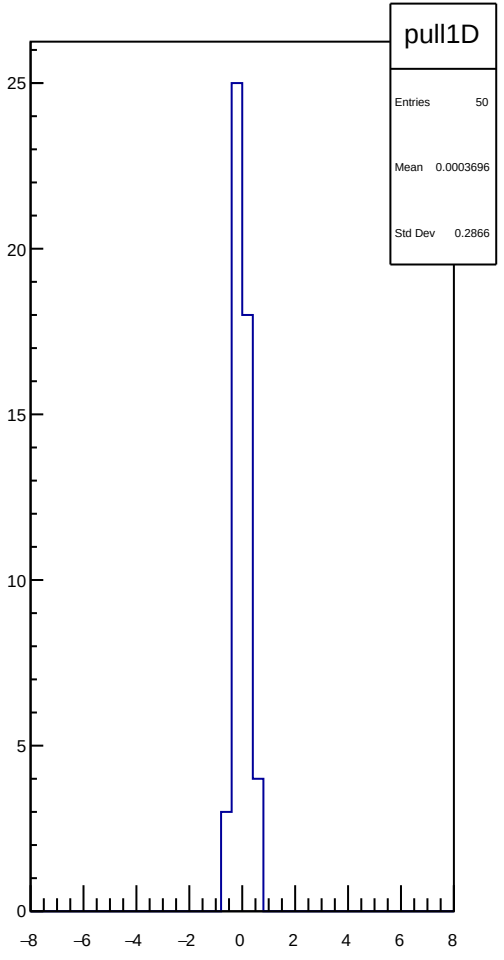

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 4811 / 49
p0 −115.2 ± 3.163
pull
Entries 50
Mean 53.84
Std Dev 17.54

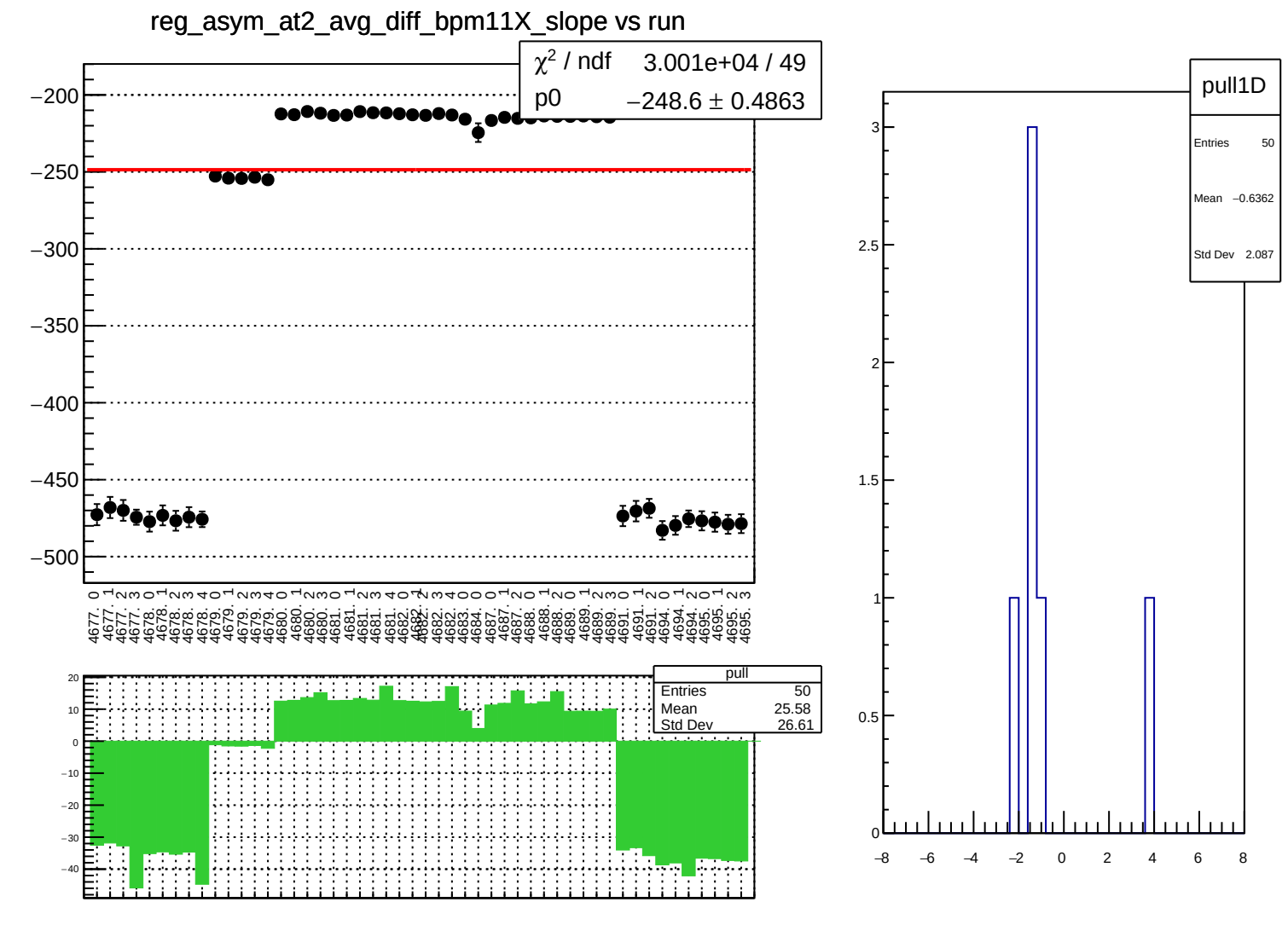

pull1D
Entries 50
Mean 1.412
Std Dev 1.287

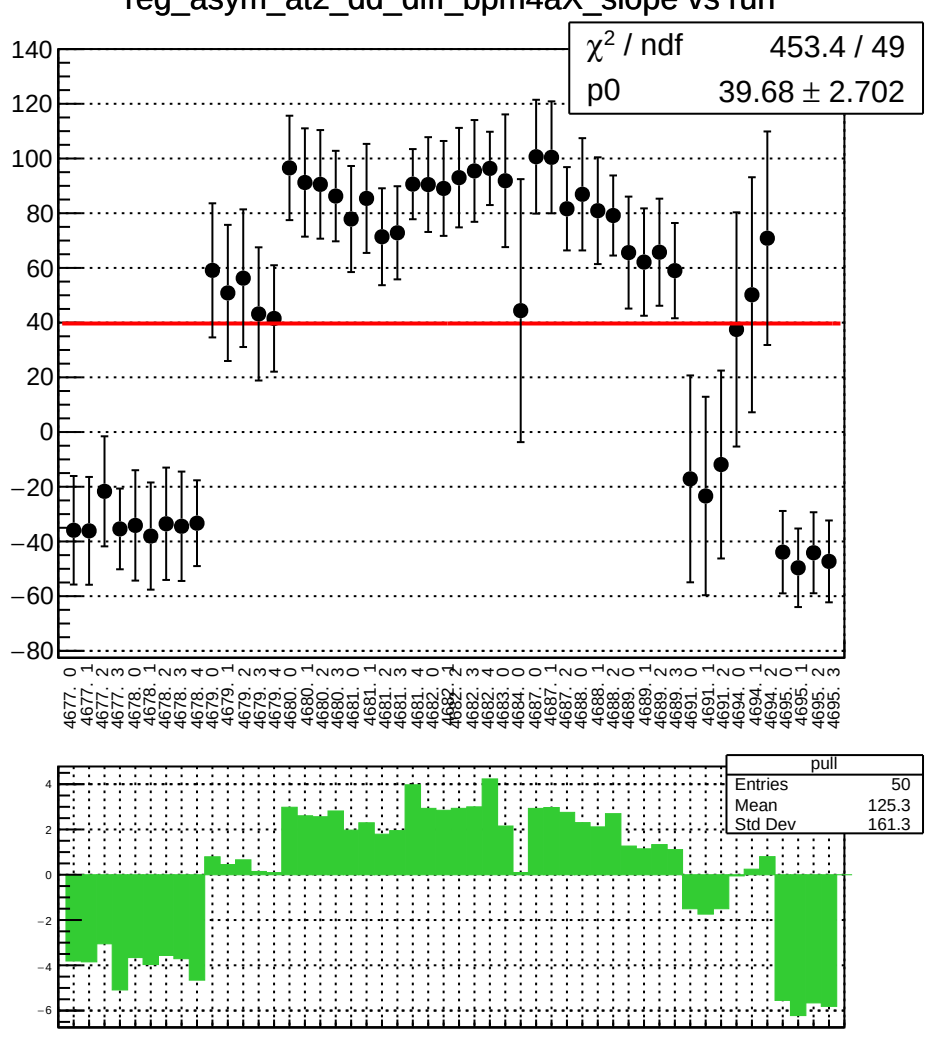

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.58 / 49
p0 35.95 ± 3.445
150
100
50
0
−50
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 31.82
Std Dev 28.24
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 50
Mean 0.04339
Std Dev 0.5913
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

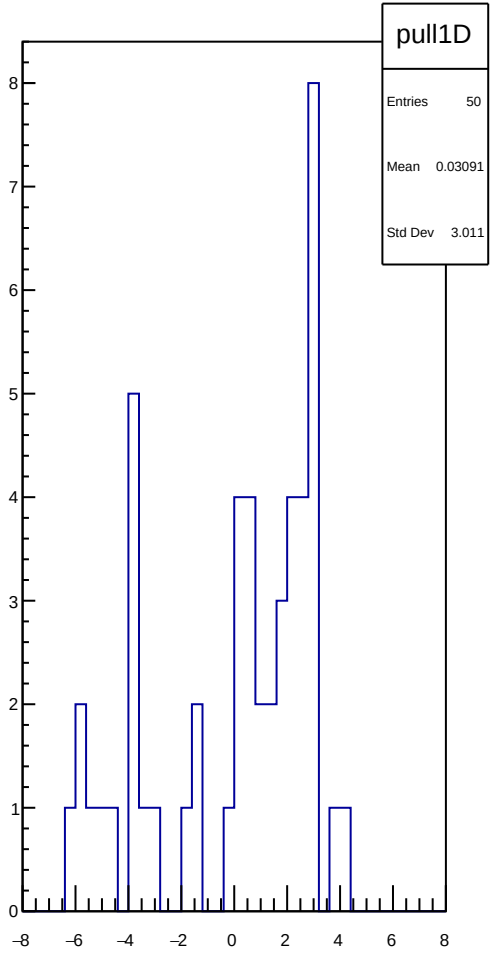

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 6764 / 49
p0 −69.97 ± 0.7391
pull
Entries 50
Mean 59.77
Std Dev 27.38
pull1D
Entries 50
Mean −1.985
Std Dev 1.625

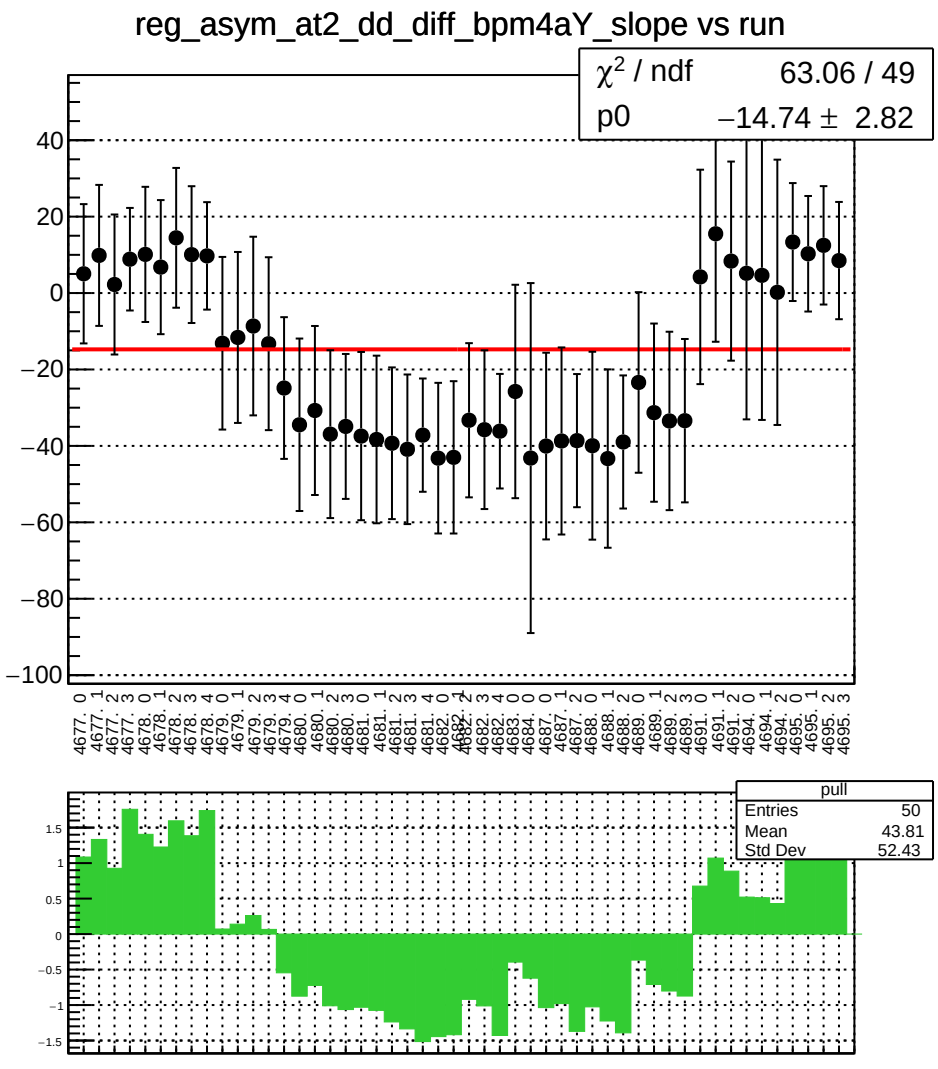

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.108 / 49
p0 15.1 ± 4.562
pull
Entries 50
Mean 2084
Std Dev 2051

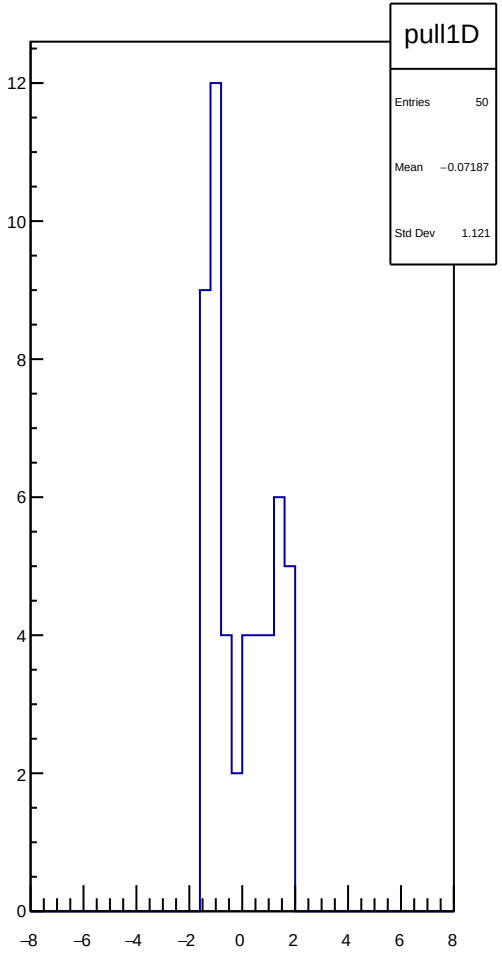

pull1D
Entries 50
Mean 0.0003696
Std Dev 0.2866

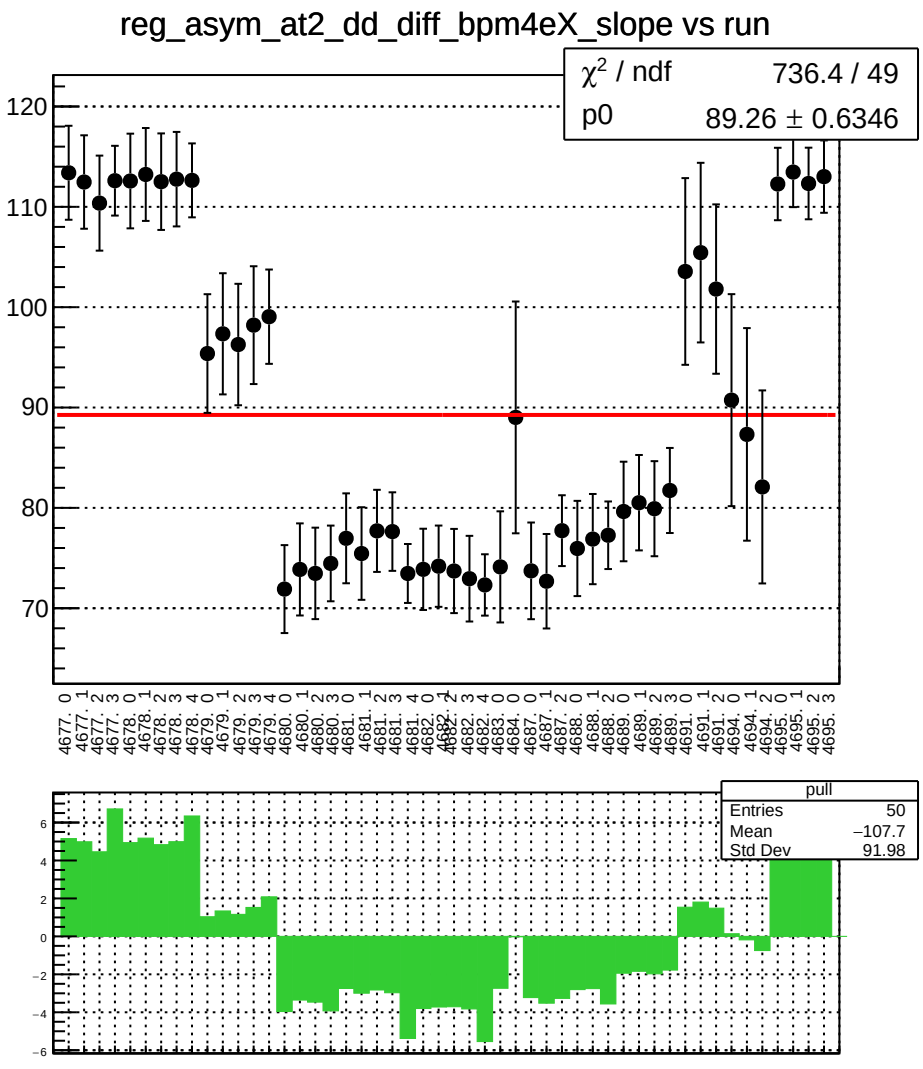

reg_asym_at2_avg_diff_bpm11X_slope vs run
χ² / ndf 3.001e+04 / 49
p0 −248.6 ± 0.4863
pull
Entries 50
Mean 25.58
Std Dev 26.61
pull1D
Entries 50
Mean −0.6362
Std Dev 2.087

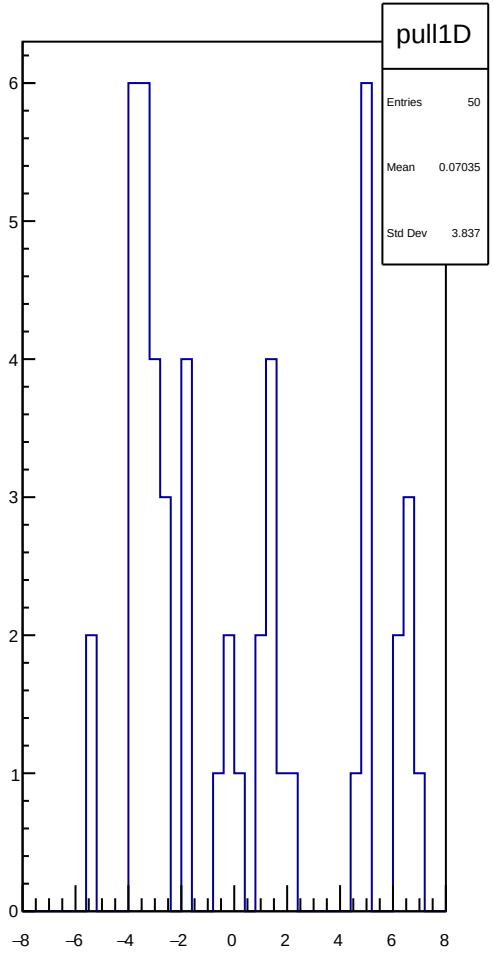

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 453.4 / 49
p0 39.68 ± 2.702
pull
Entries 50
Mean 125.3
Std Dev 161.3

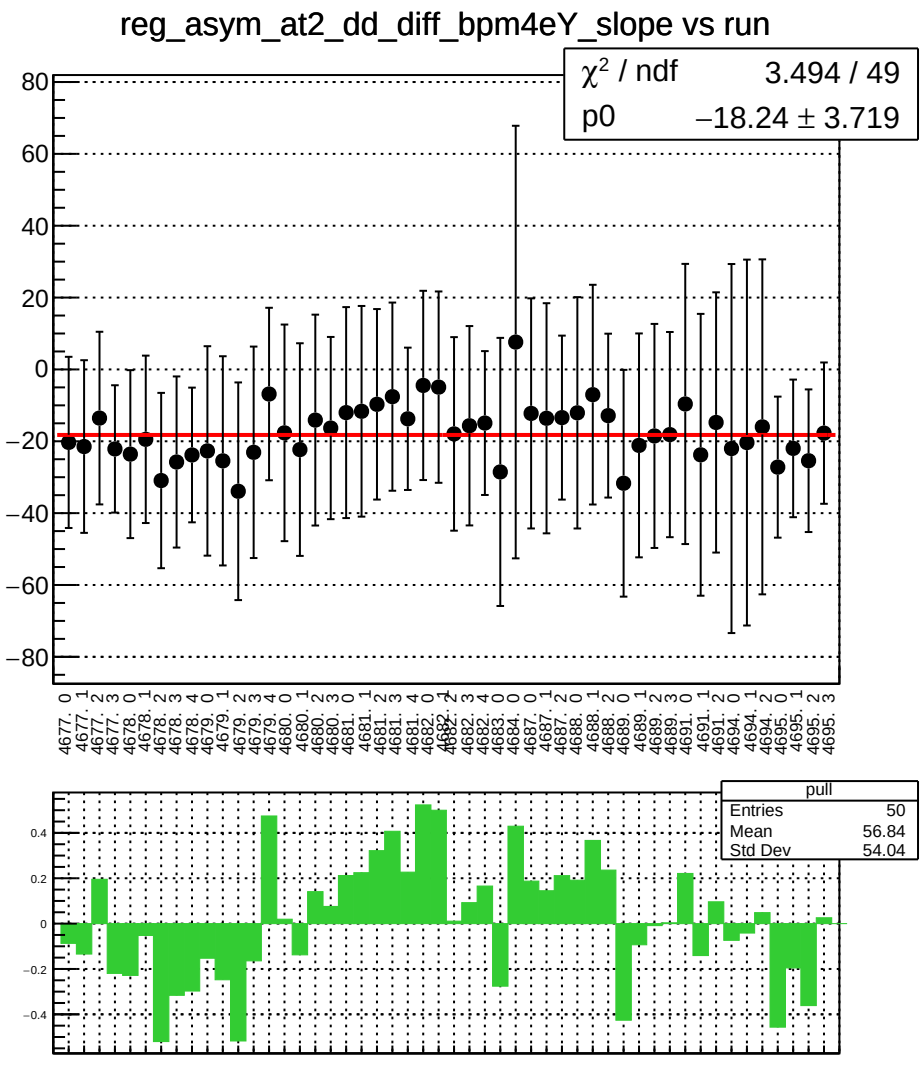

pull1D
Entries 50
Mean 0.03091
Std Dev 3.011

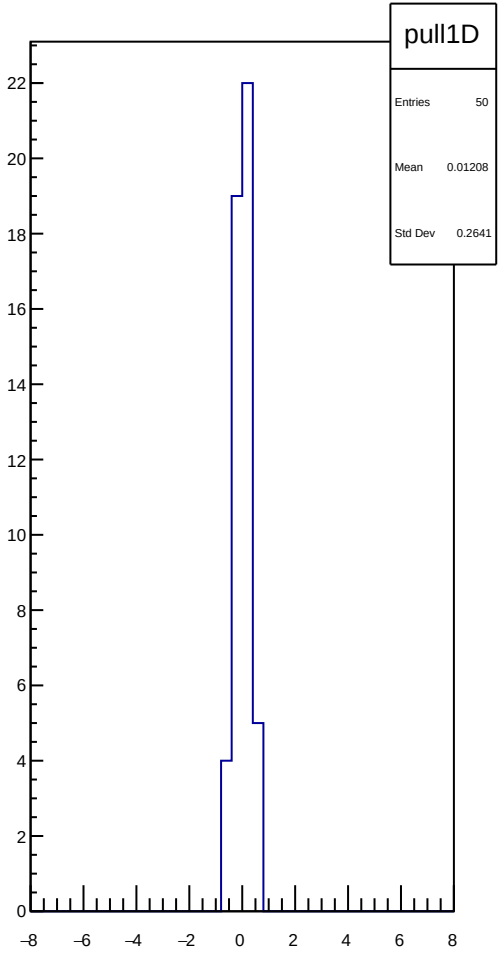

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 63.06 / 49
p0 −14.74 ± 2.82
pull
Entries 50
Mean 43.81
Std Dev 52.43

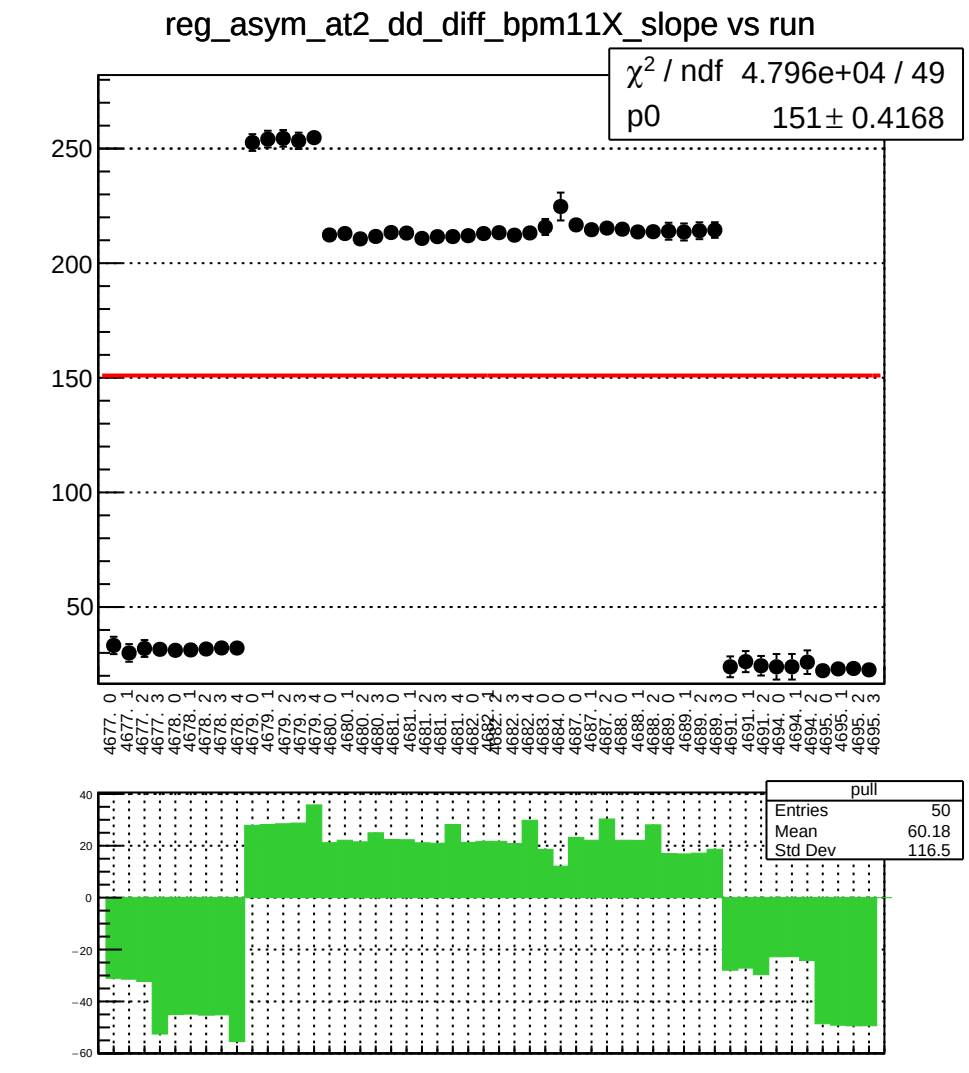

pull1D
Entries 50
Mean −0.07187
Std Dev 1.121

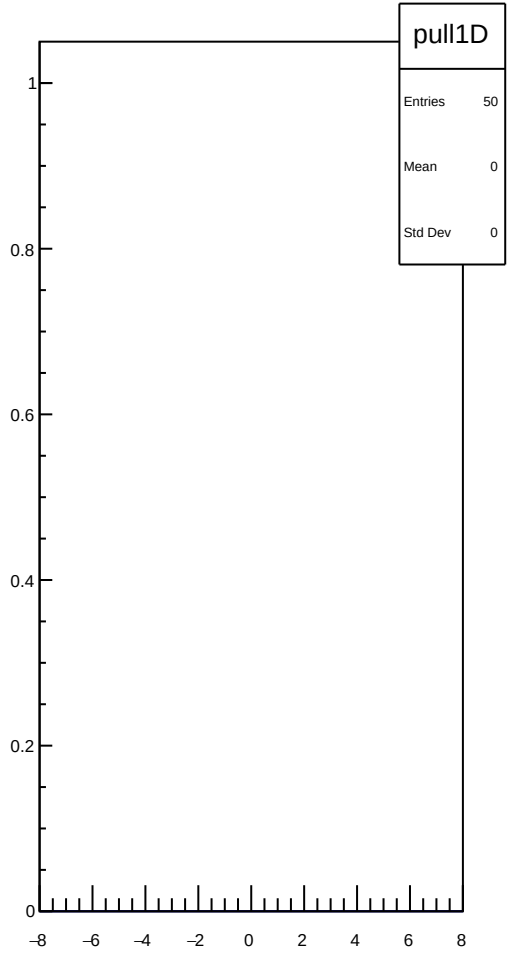

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 736.4 / 49
p0 89.26 ± 0.6346
120
110
100
90
80
70
pull
Entries 50
Mean −107.7
Std Dev 91.98
6
4
2
0
−2
−4
−6

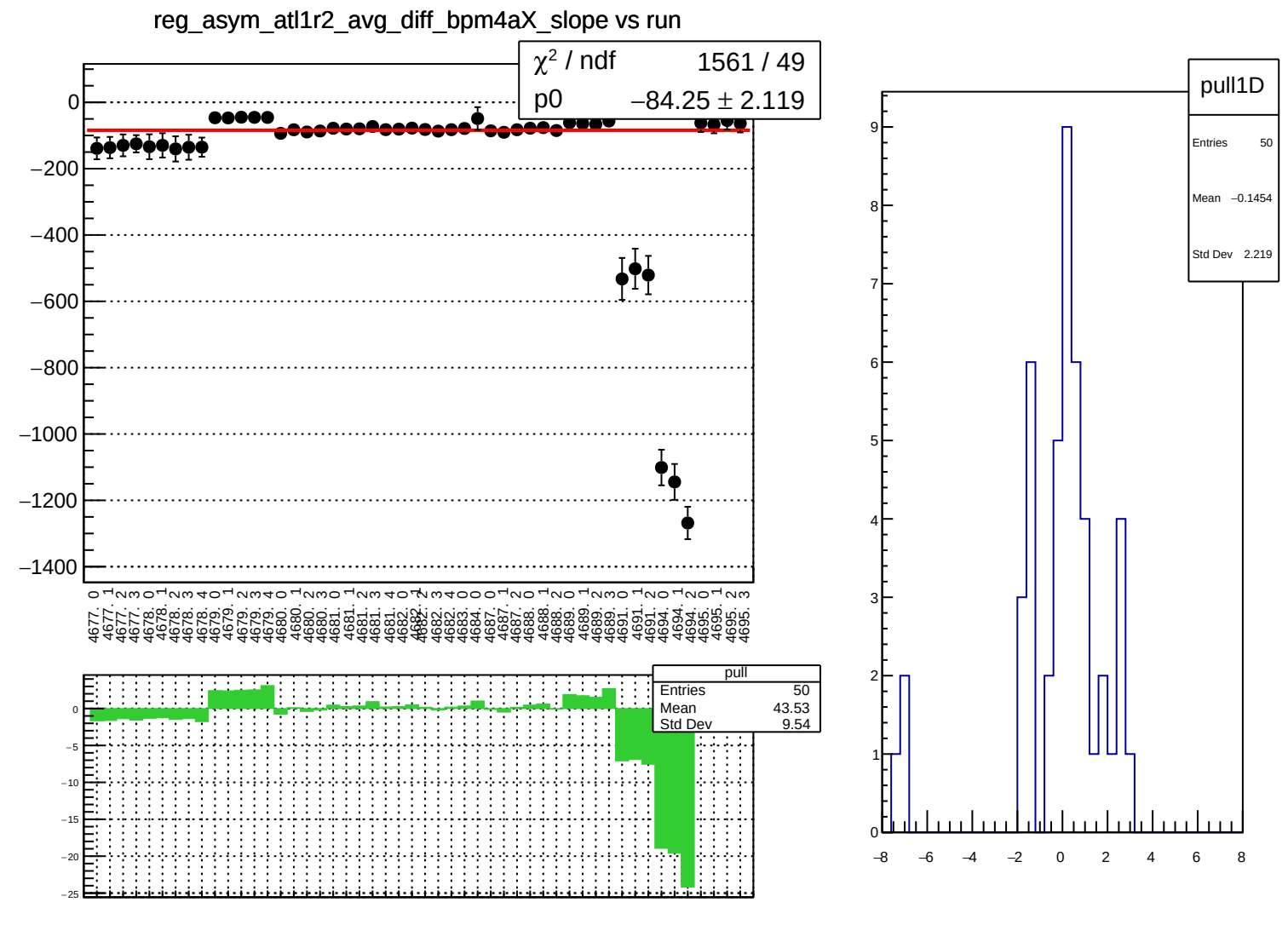

pull1D
Entries 50
Mean 0.07035
Std Dev 3.837
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

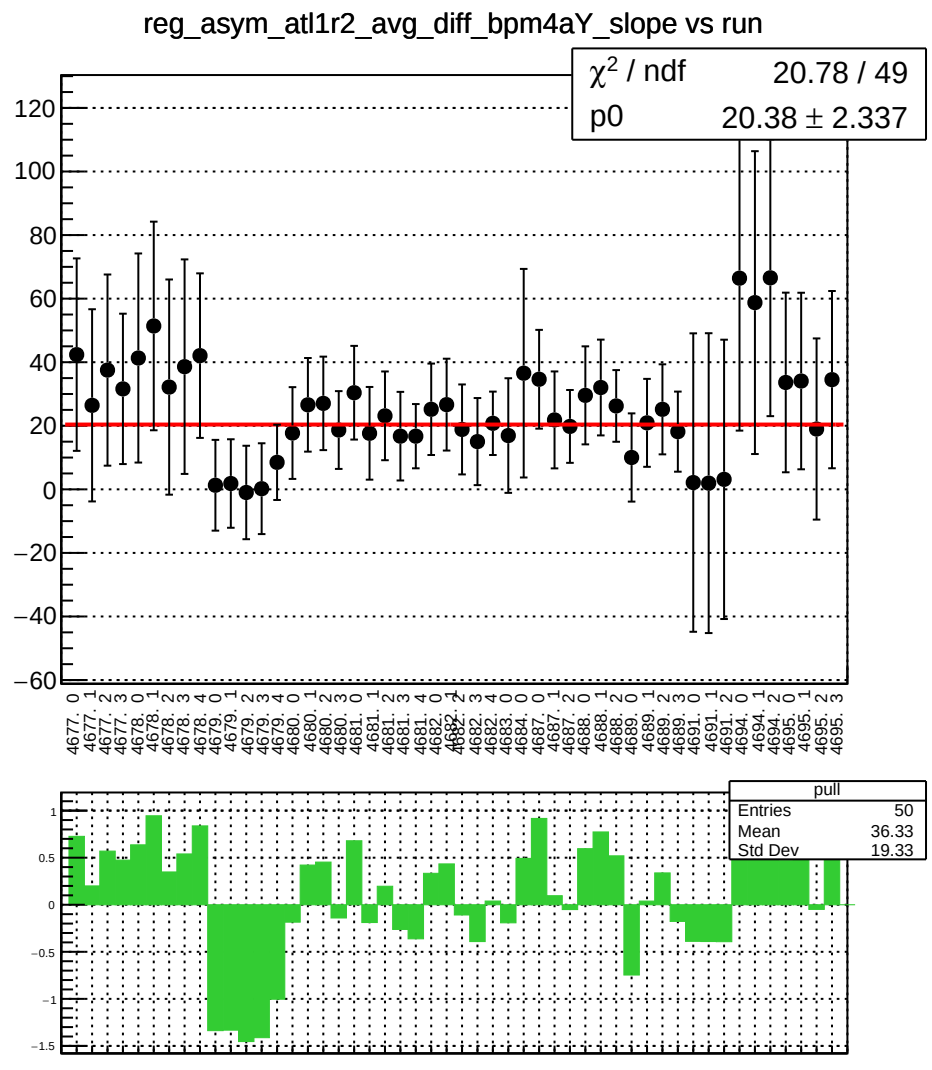

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.494 / 49
p0 −18.24 ± 3.719
pull
Entries 50
Mean 56.84
Std Dev 54.04

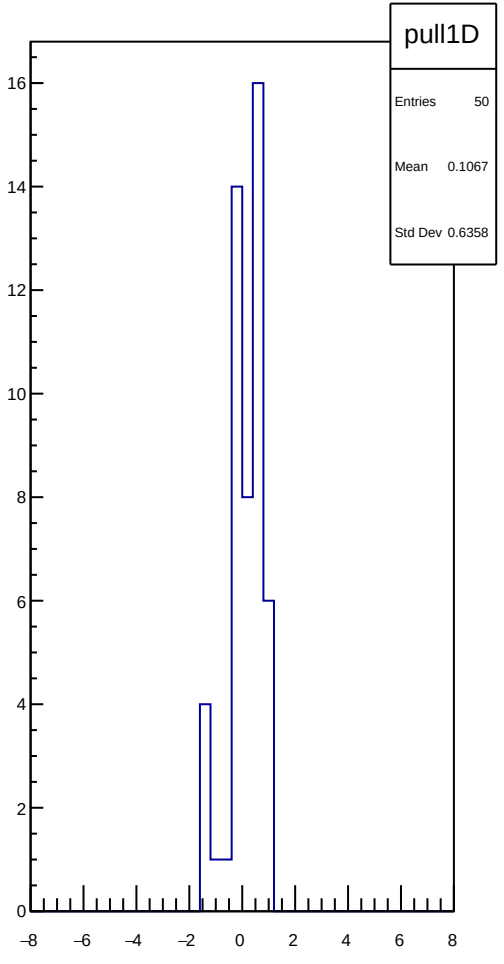

pull1D
Entries 50
Mean 0.01208
Std Dev 0.2641

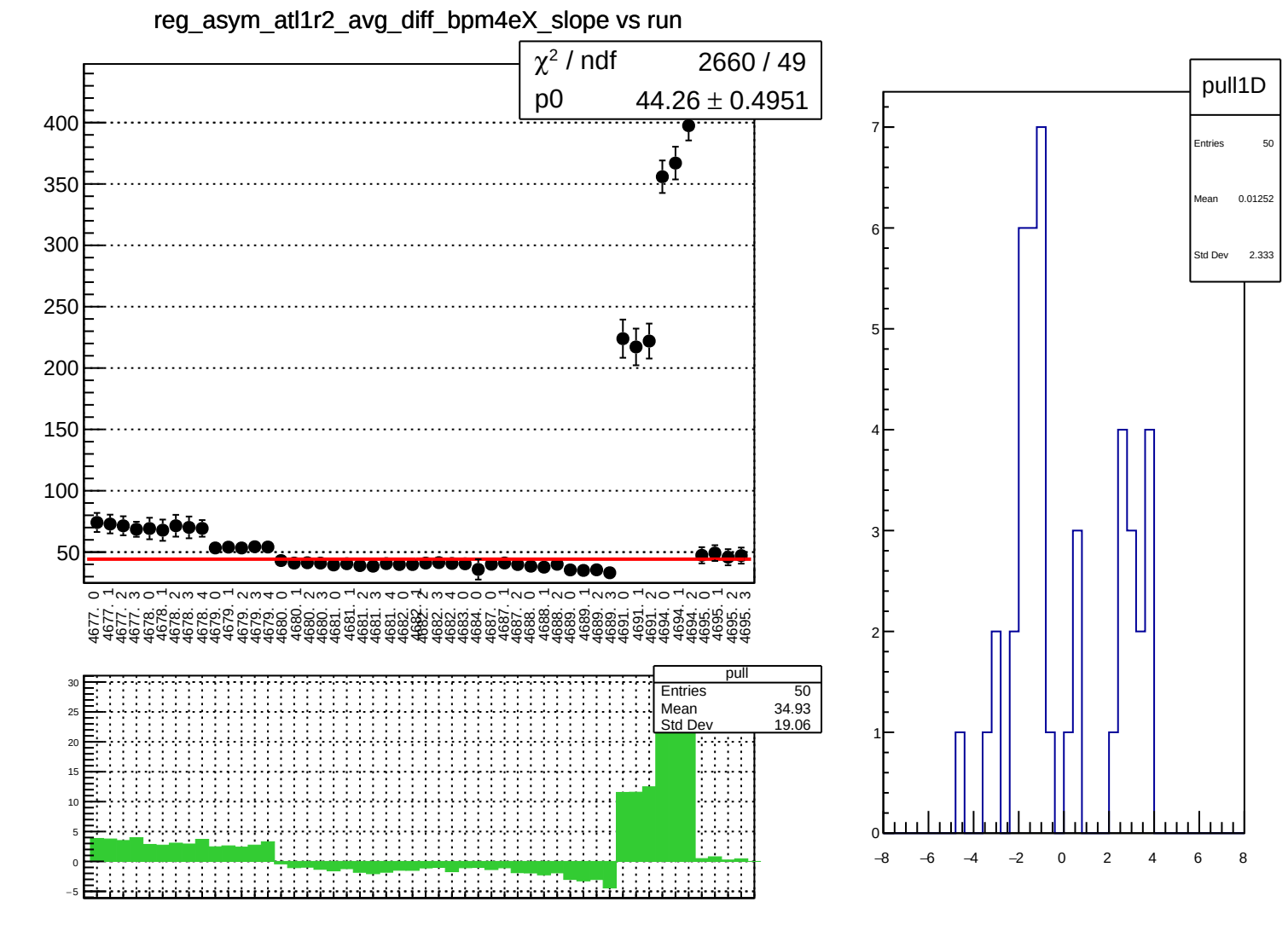

reg_asym_at2_dd_diff_bpm11X_slope vs run
χ² / ndf 4.796e+04 / 49
p0 151 ± 0.4168
250
200
150
100
50
pull
Entries 50
Mean 60.18
Std Dev 116.5
40
20
0
−20
−40
−60

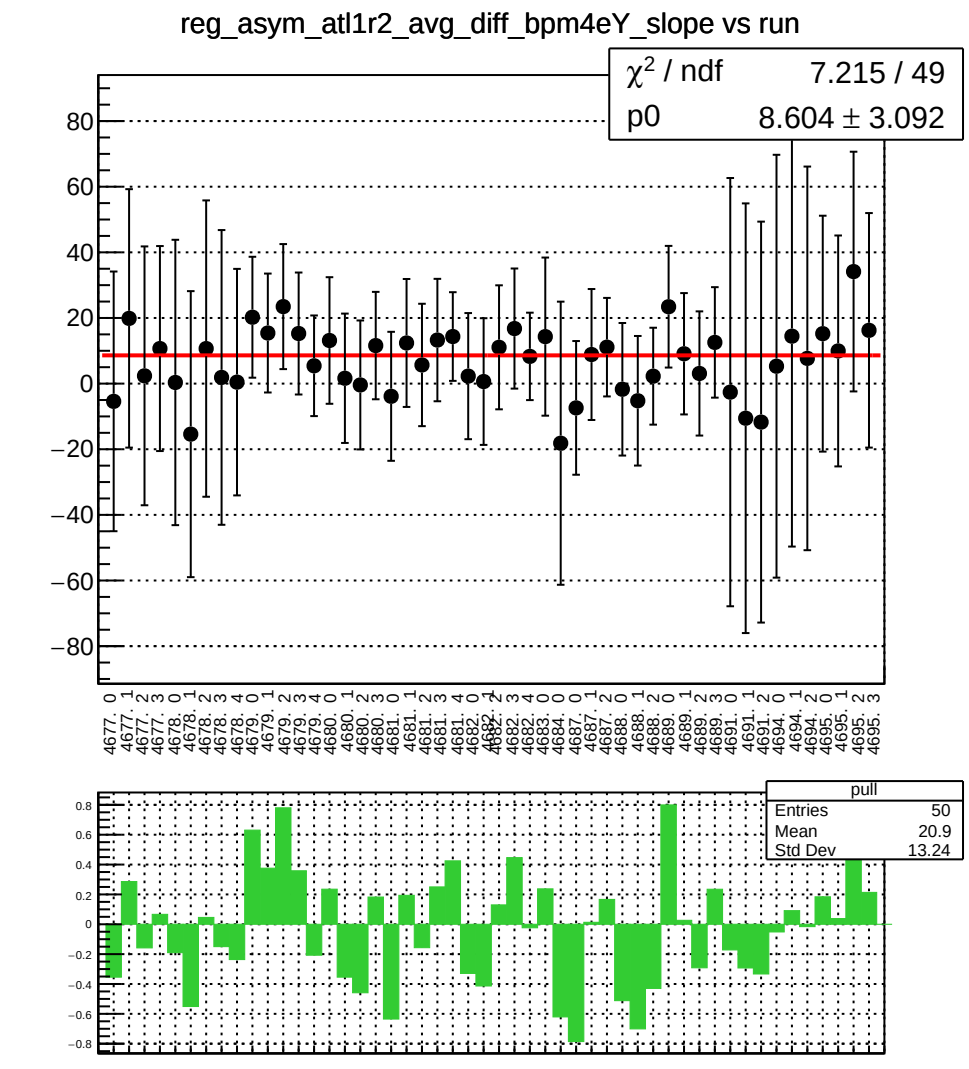

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

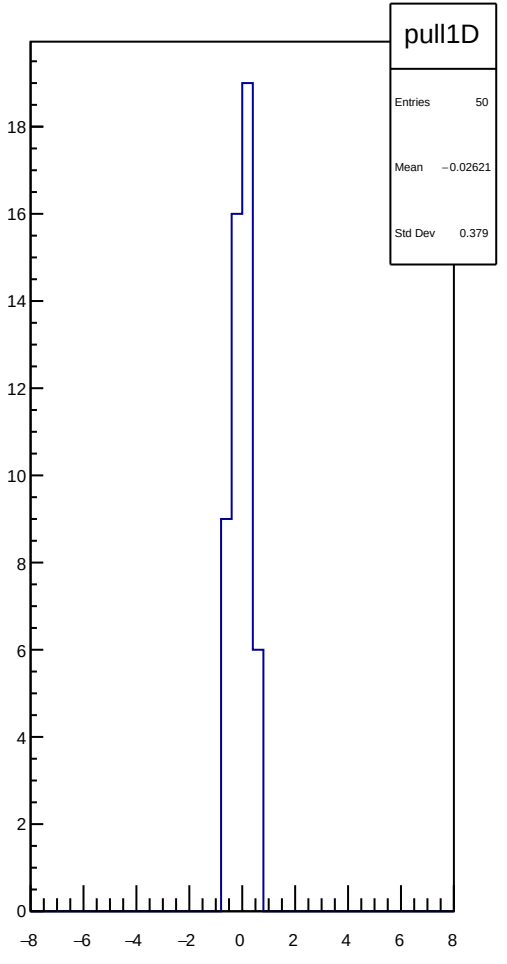

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 1561 / 49
p0 −84.25 ± 2.119
pull
Entries 50
Mean 43.53
Std Dev 9.54
pull1D
Entries 50
Mean −0.1454
Std Dev 2.219

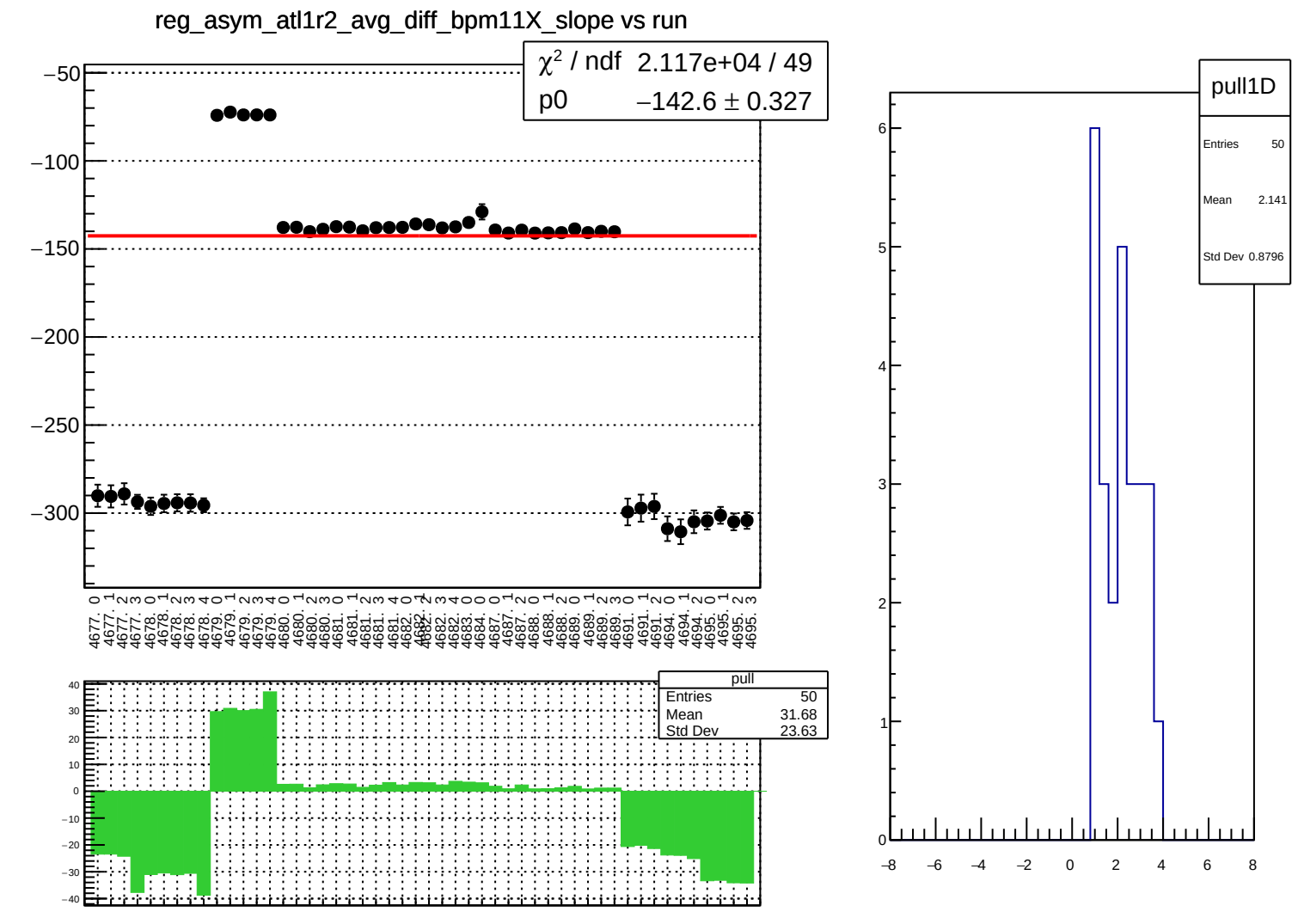

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.78 / 49
p0 20.38 ± 2.337
pull
Entries 50
Mean 36.33
Std Dev 19.33

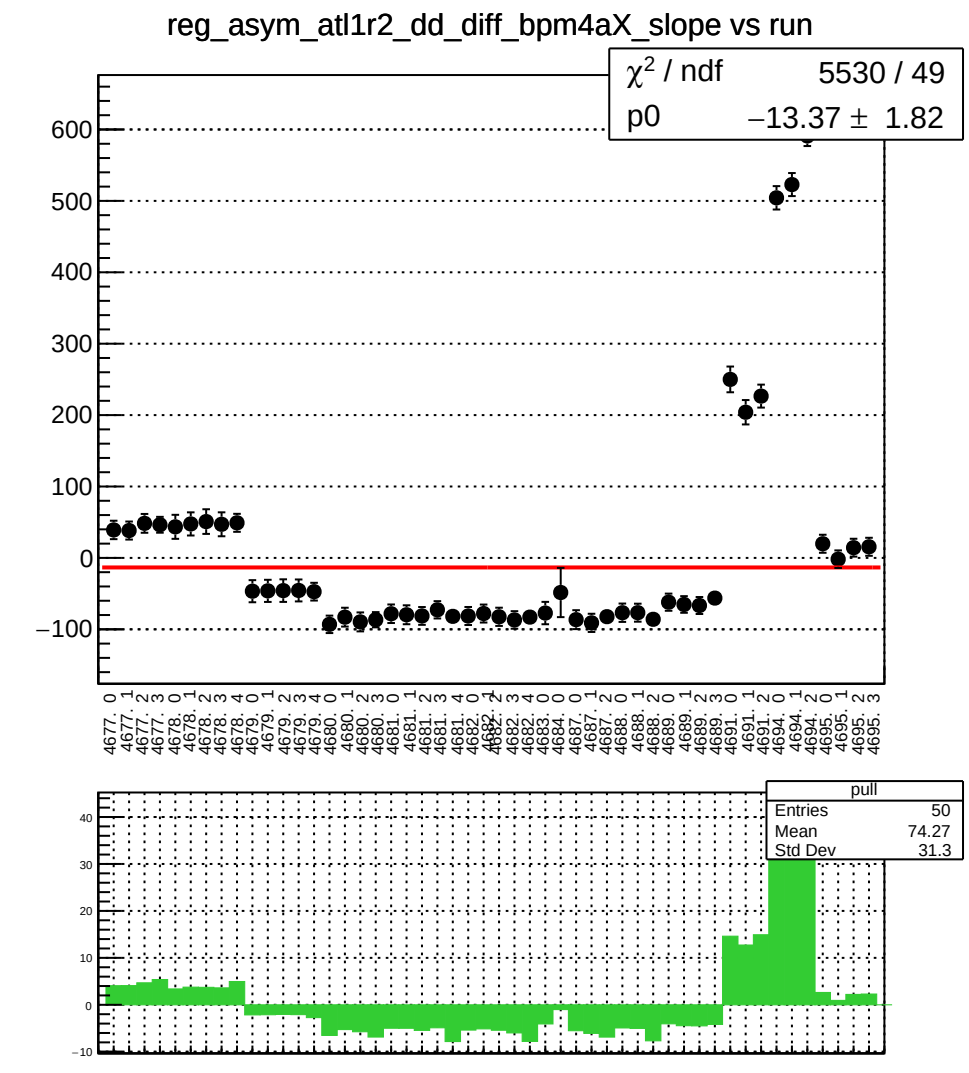

pull1D
Entries 50
Mean 0.1067
Std Dev 0.6358

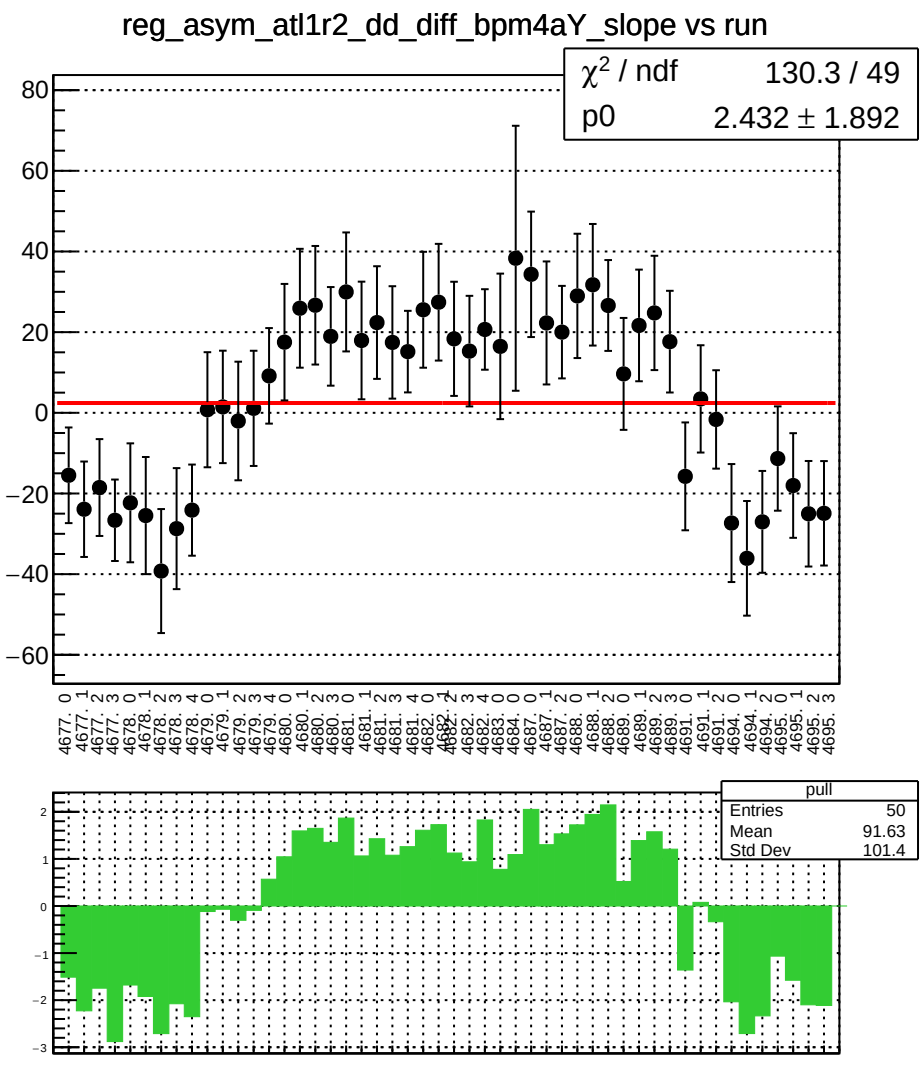

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 2660 / 49
p0 44.26 ± 0.4951
pull
Entries 50
Mean 34.93
Std Dev 19.06
pull1D
Entries 50
Mean 0.01252
Std Dev 2.333

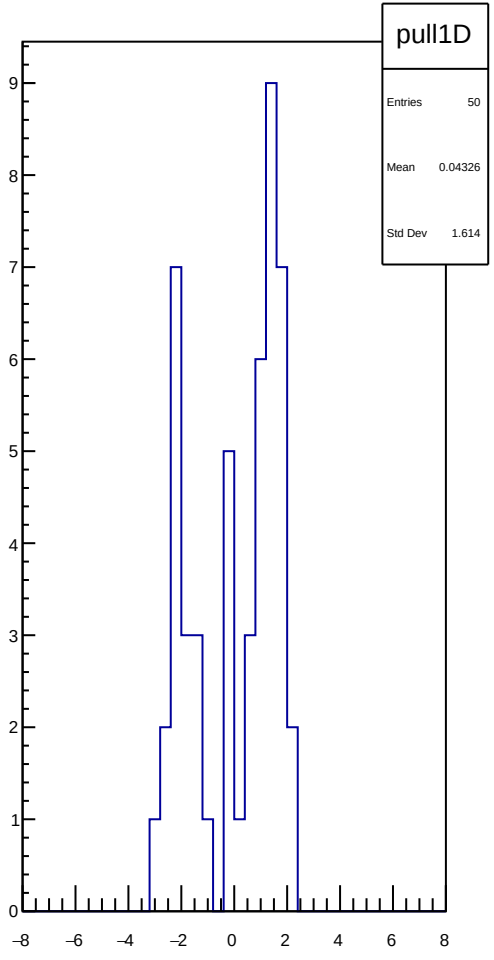

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.215 / 49
p0 8.604 ± 3.092
pull
Entries 50
Mean 20.9
Std Dev 13.24

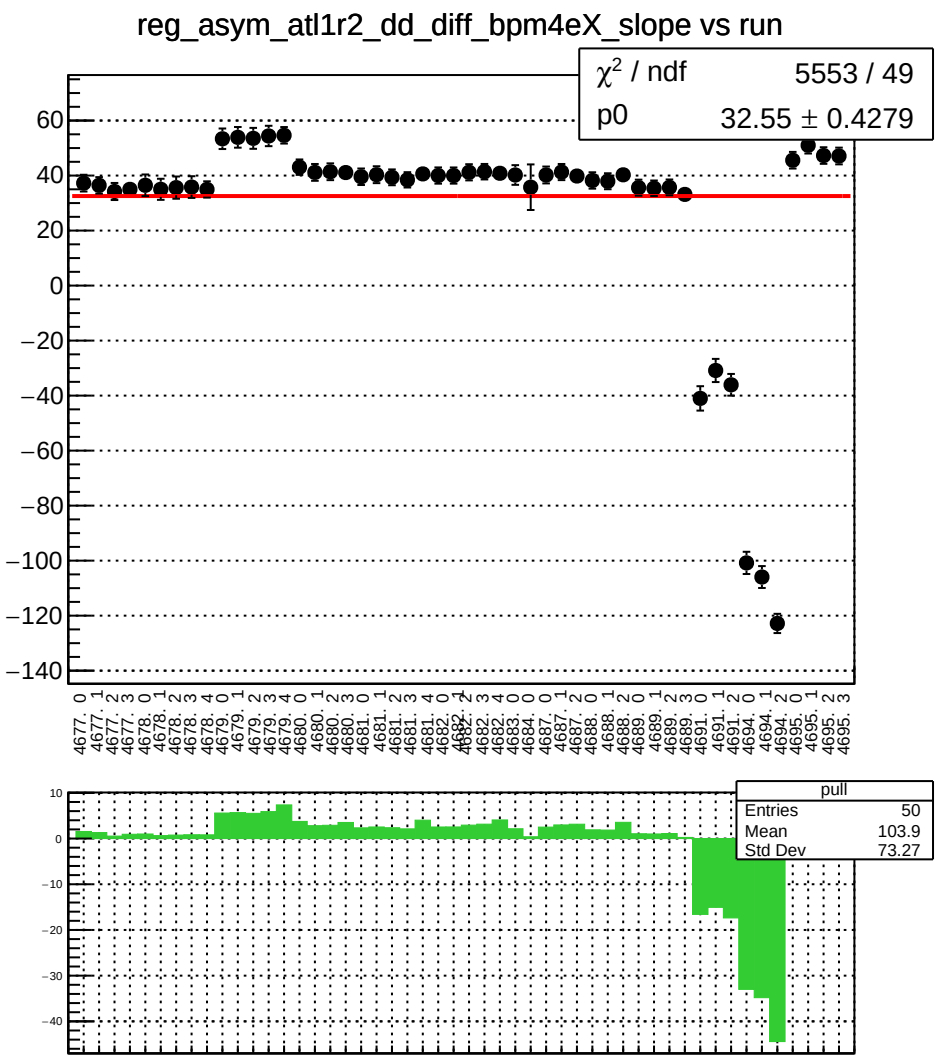

pull1D
Entries 50
Mean −0.02621
Std Dev 0.379

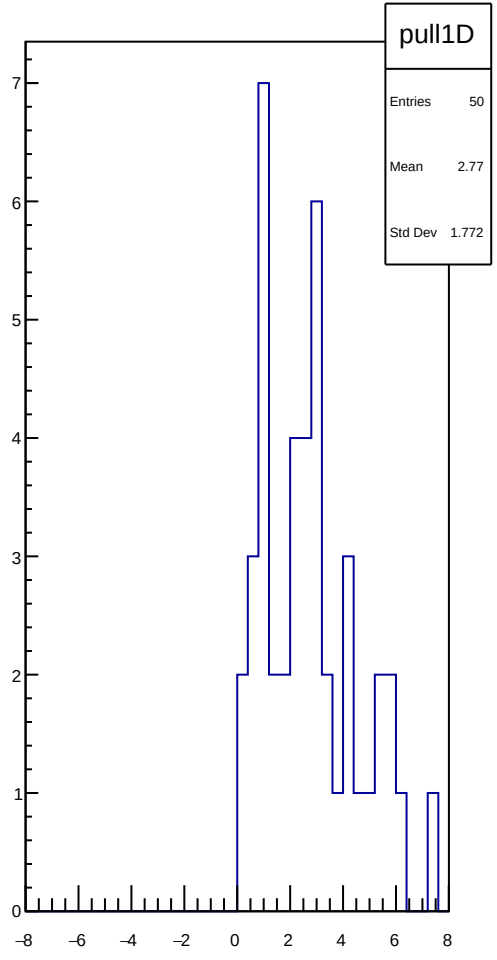

reg_asym_atl1r2_avg_diff_bpm11X_slope vs run
χ² / ndf 2.117e+04 / 49
p0 −142.6 ± 0.327
pull
Entries 50
Mean 31.68
Std Dev 23.63
pull1D
Entries 50
Mean 2.141
Std Dev 0.8796

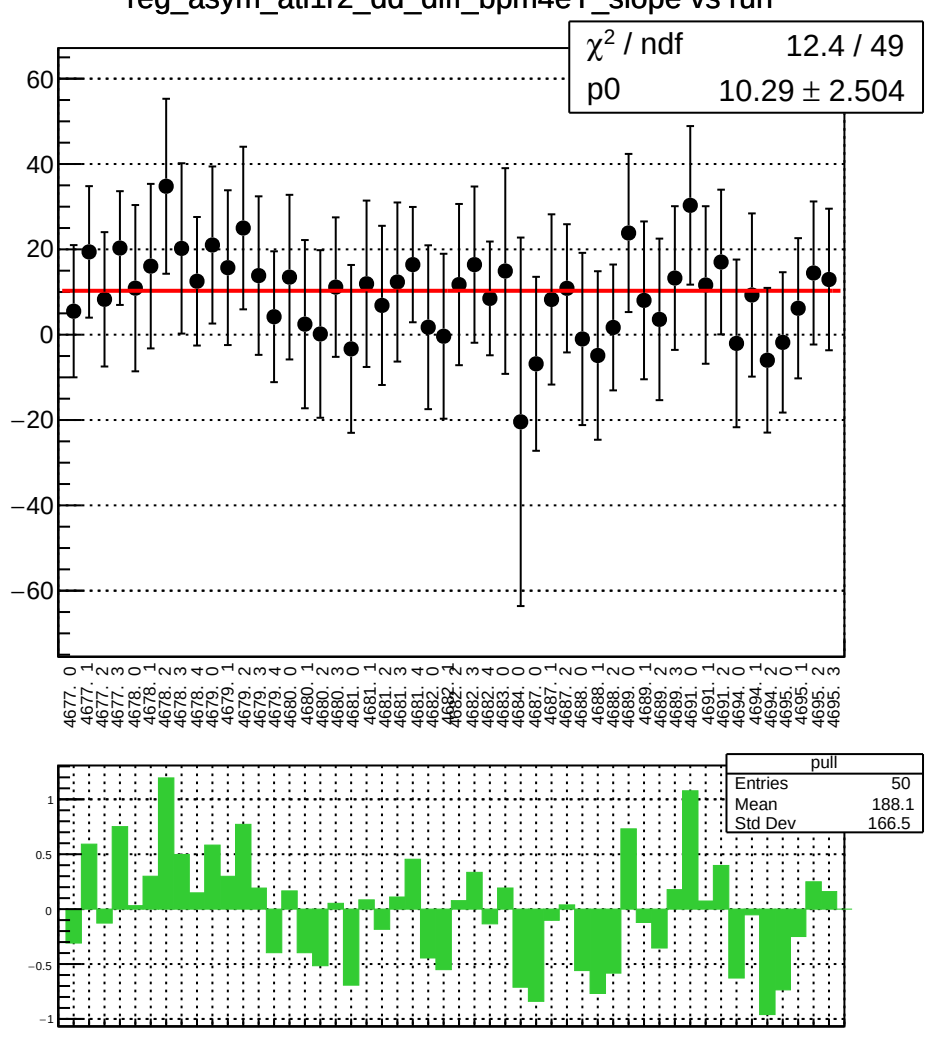

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 5530 / 49
p0 −13.37 ± 1.82
600
500
400
300
200
100
0
−100
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 74.27
Std Dev 31.3
40
30
20
10
0
−10
pull1D
Entries 50
Mean −2.41
Std Dev 4.156
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

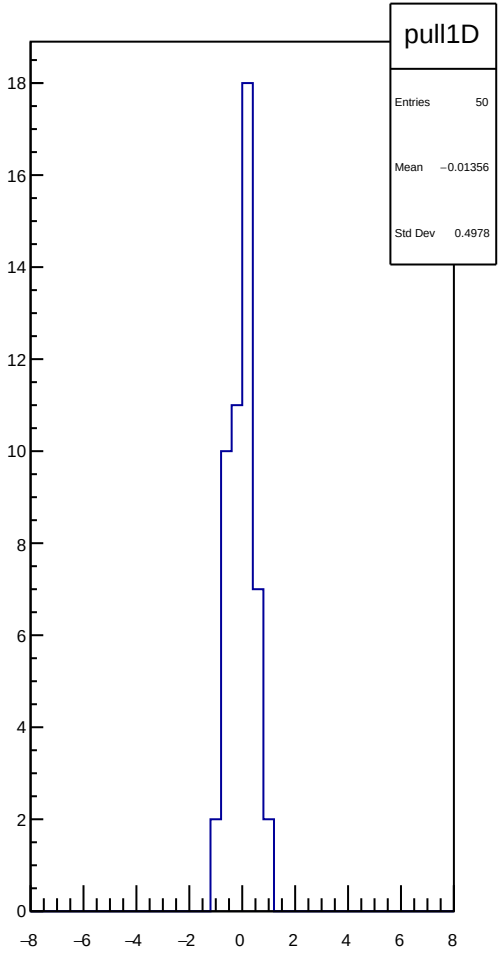

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 130.3 / 49
p0 2.432 ± 1.892
pull
Entries 50
Mean 91.63
Std Dev 101.4

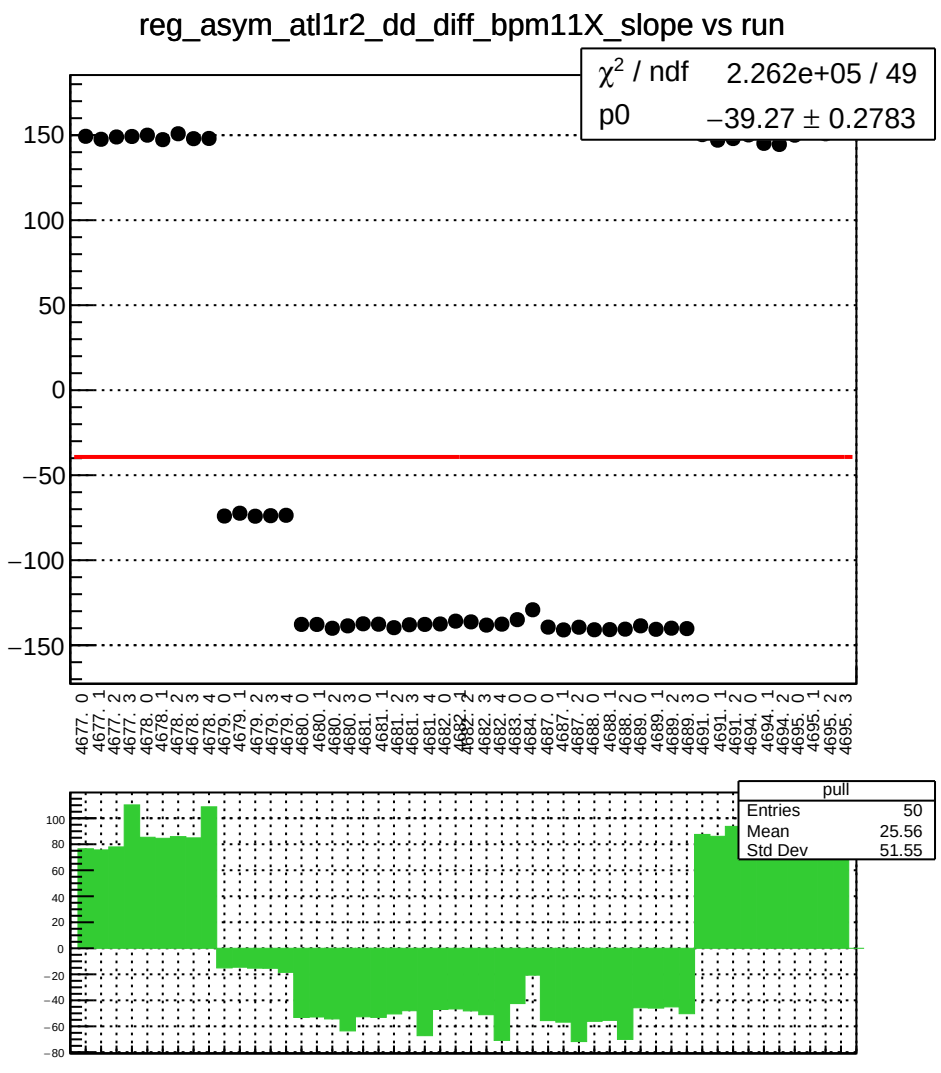

pull1D
Entries 50
Mean 0.04326
Std Dev 1.614

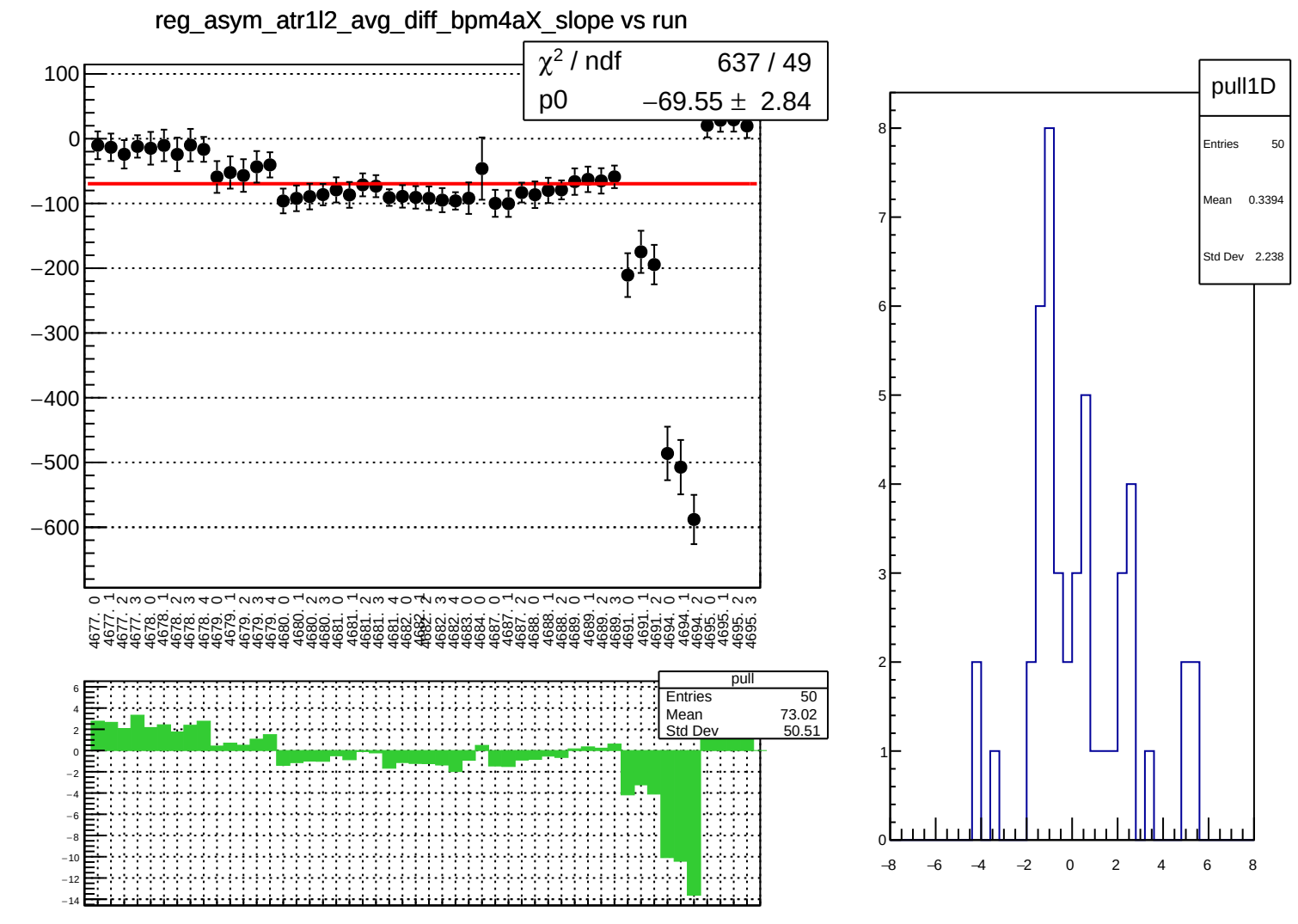

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 5553 / 49
p0 32.55 ± 0.4279
pull
Entries 50
Mean 103.9
Std Dev 73.27

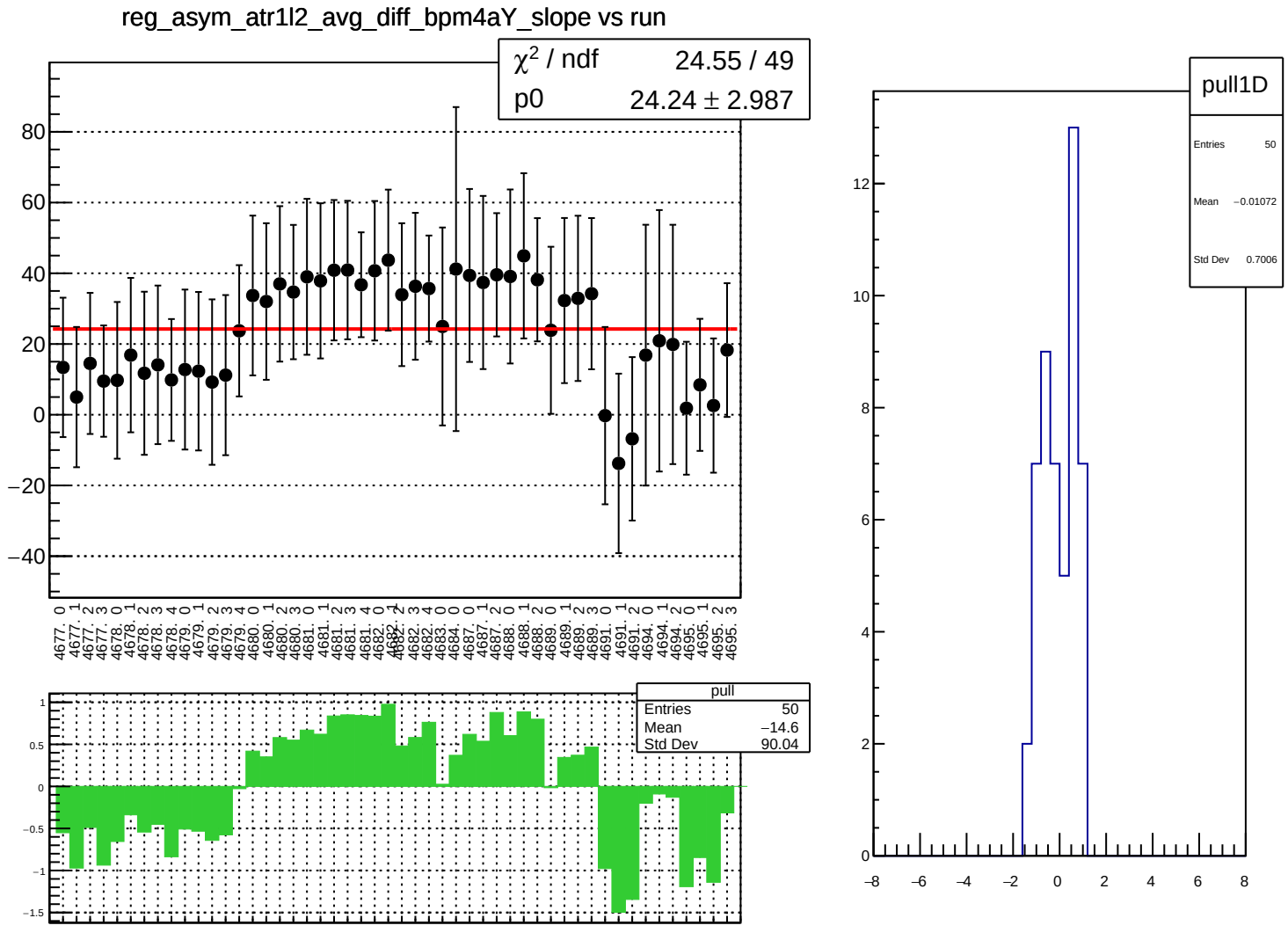

pull1D
Entries 50
Mean 2.77
Std Dev 1.772

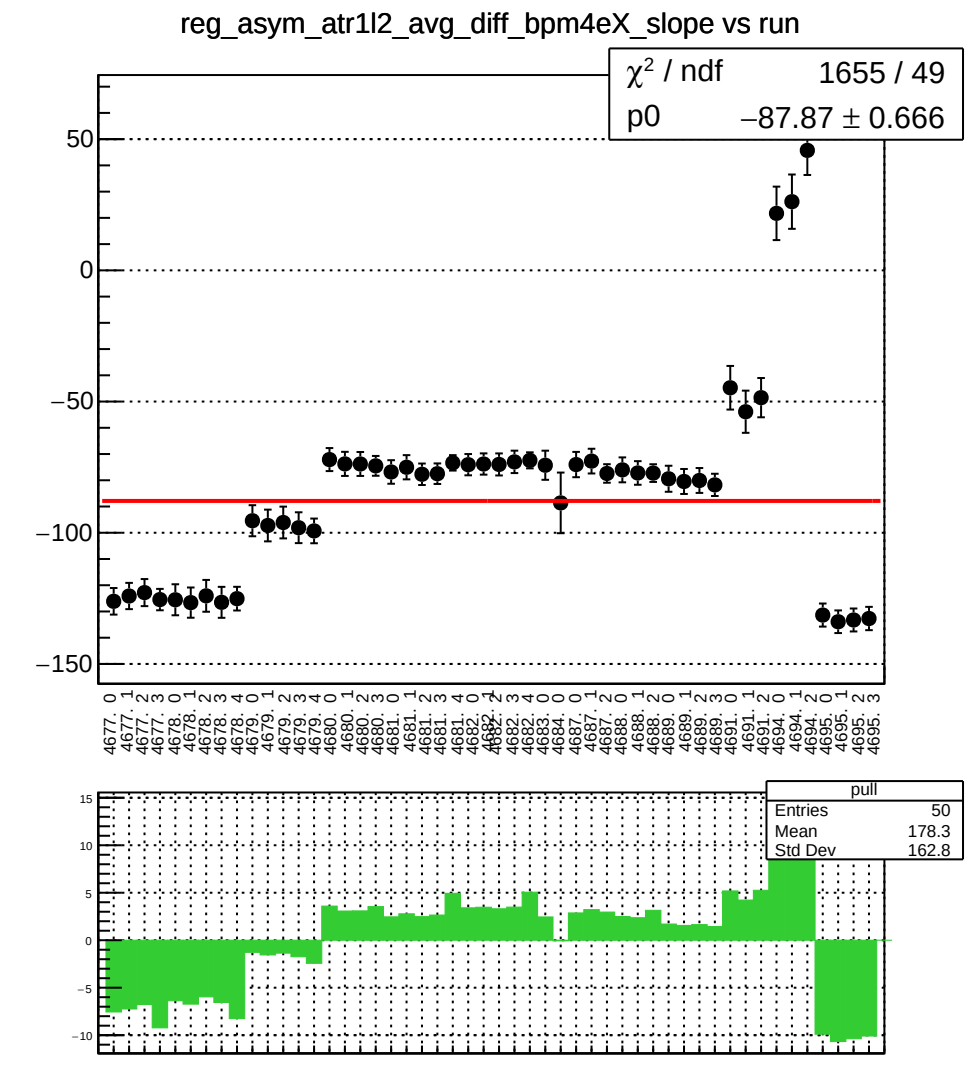

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.4 / 49
p0 10.29 ± 2.504
pull
Entries 50
Mean 188.1
Std Dev 166.5

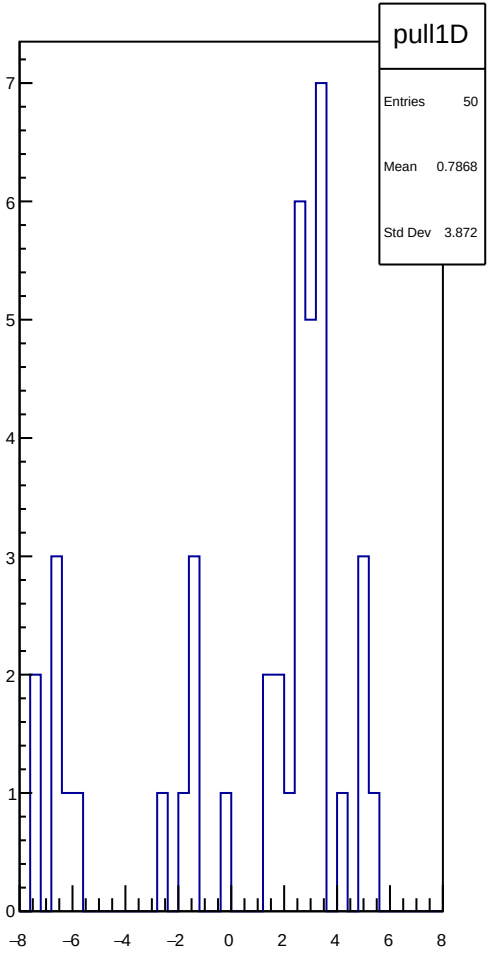

pull1D
Entries 50
Mean −0.01356
Std Dev 0.4978

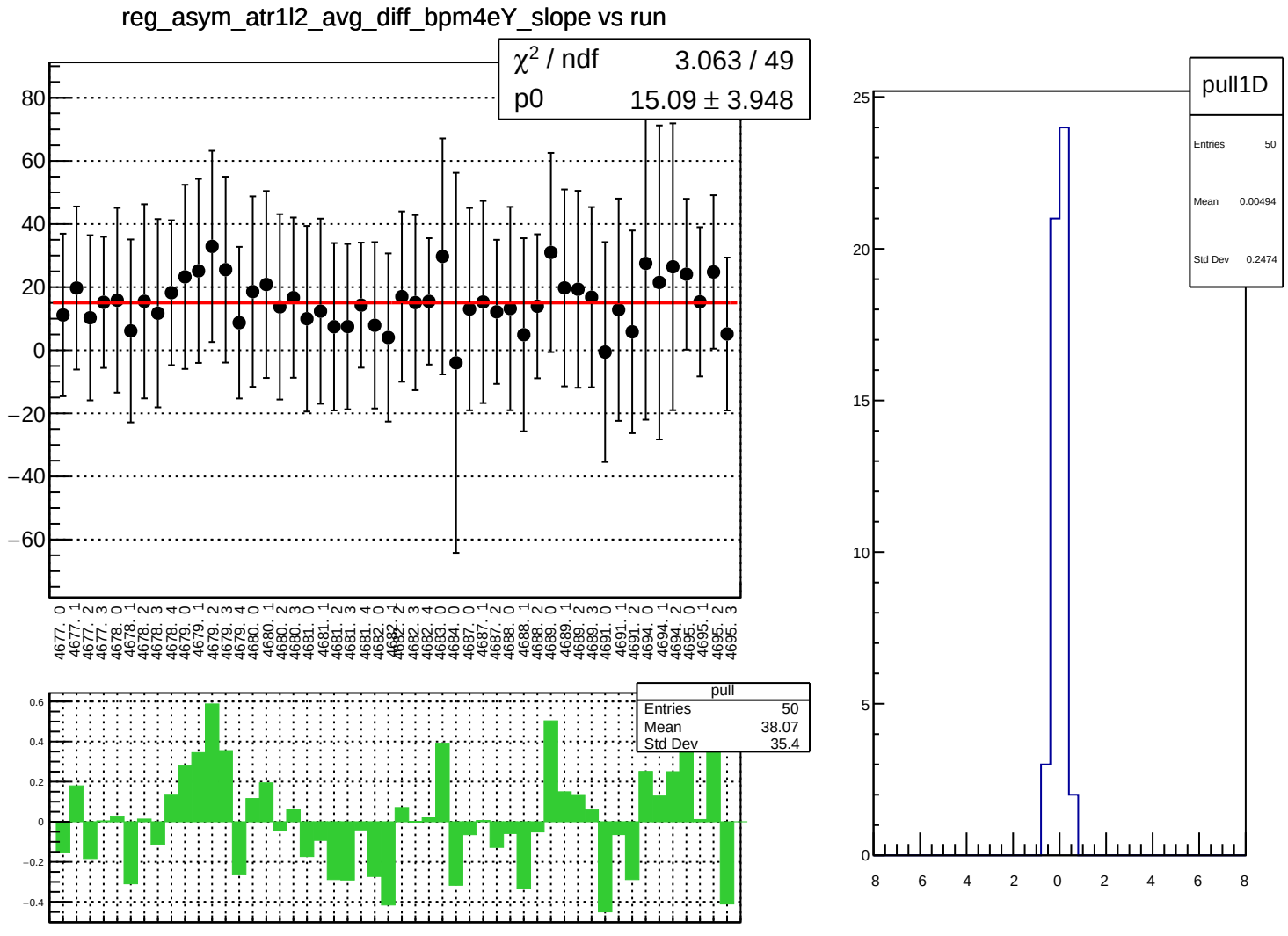

reg_asym_atl1r2_dd_diff_bpm11X_slope vs run
χ² / ndf 2.262e+05 / 49
p0 −39.27 ± 0.2783
150
100
50
0
−50
−100
−150
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4688. 3
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 25.56
Std Dev 51.55
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

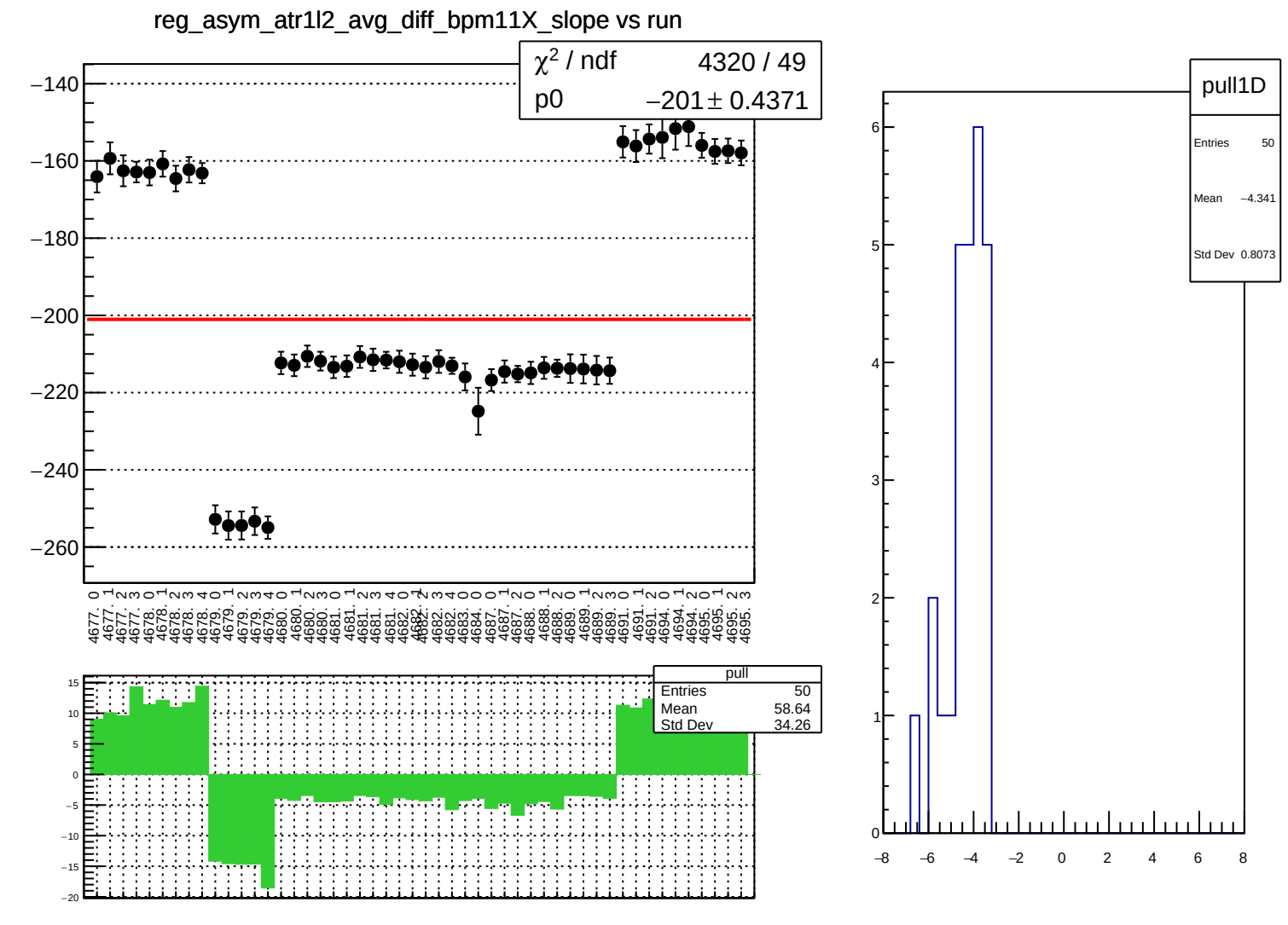

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 637 / 49
p0 −69.55 ± 2.84
pull
Entries 50
Mean 73.02
Std Dev 50.51
pull1D
Entries 50
Mean 0.3394
Std Dev 2.238

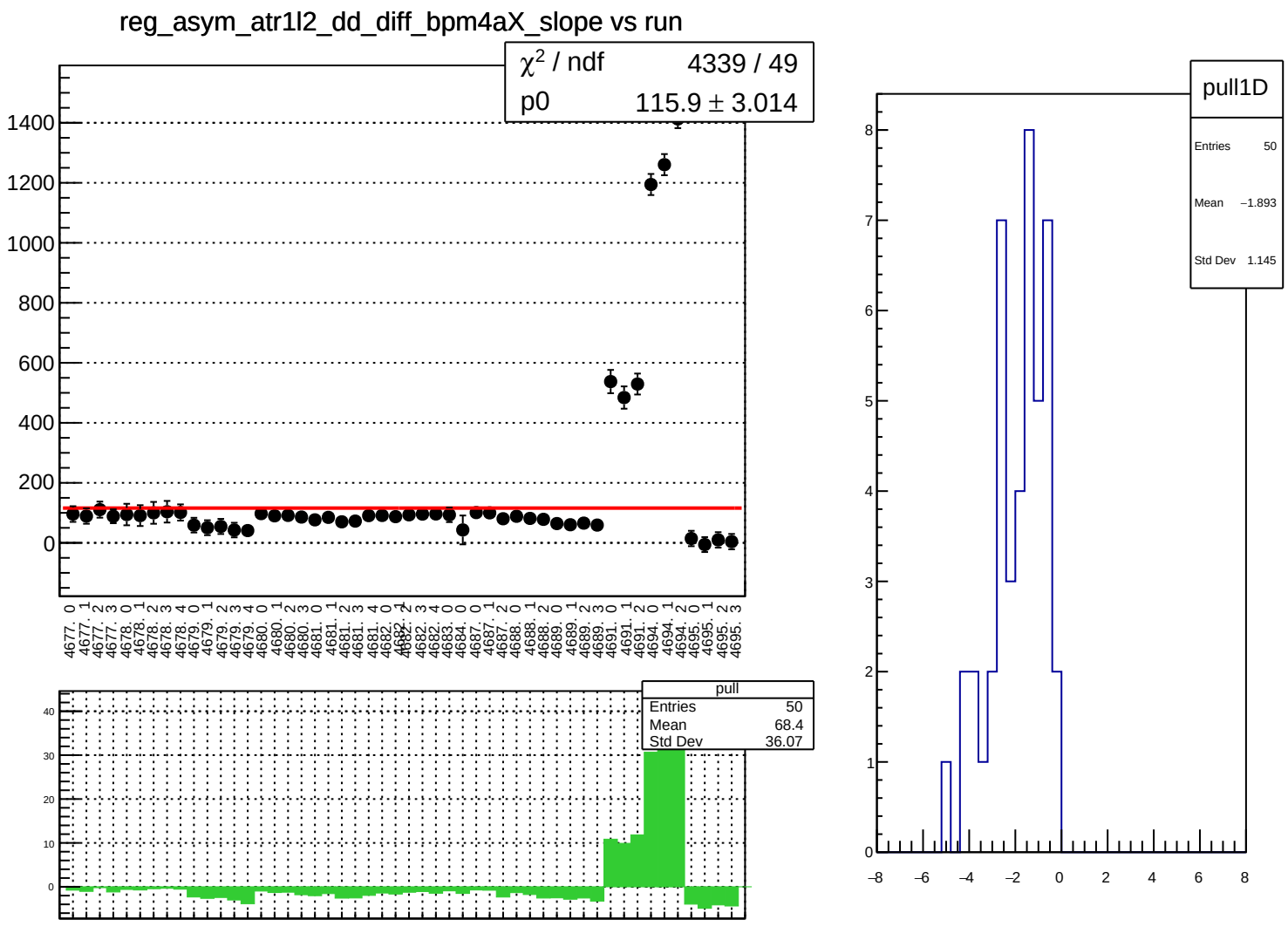

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.55 / 49
p0 24.24 ± 2.987
pull
Entries 50
Mean −14.6
Std Dev 90.04
pull1D
Entries 50
Mean −0.01072
Std Dev 0.7006

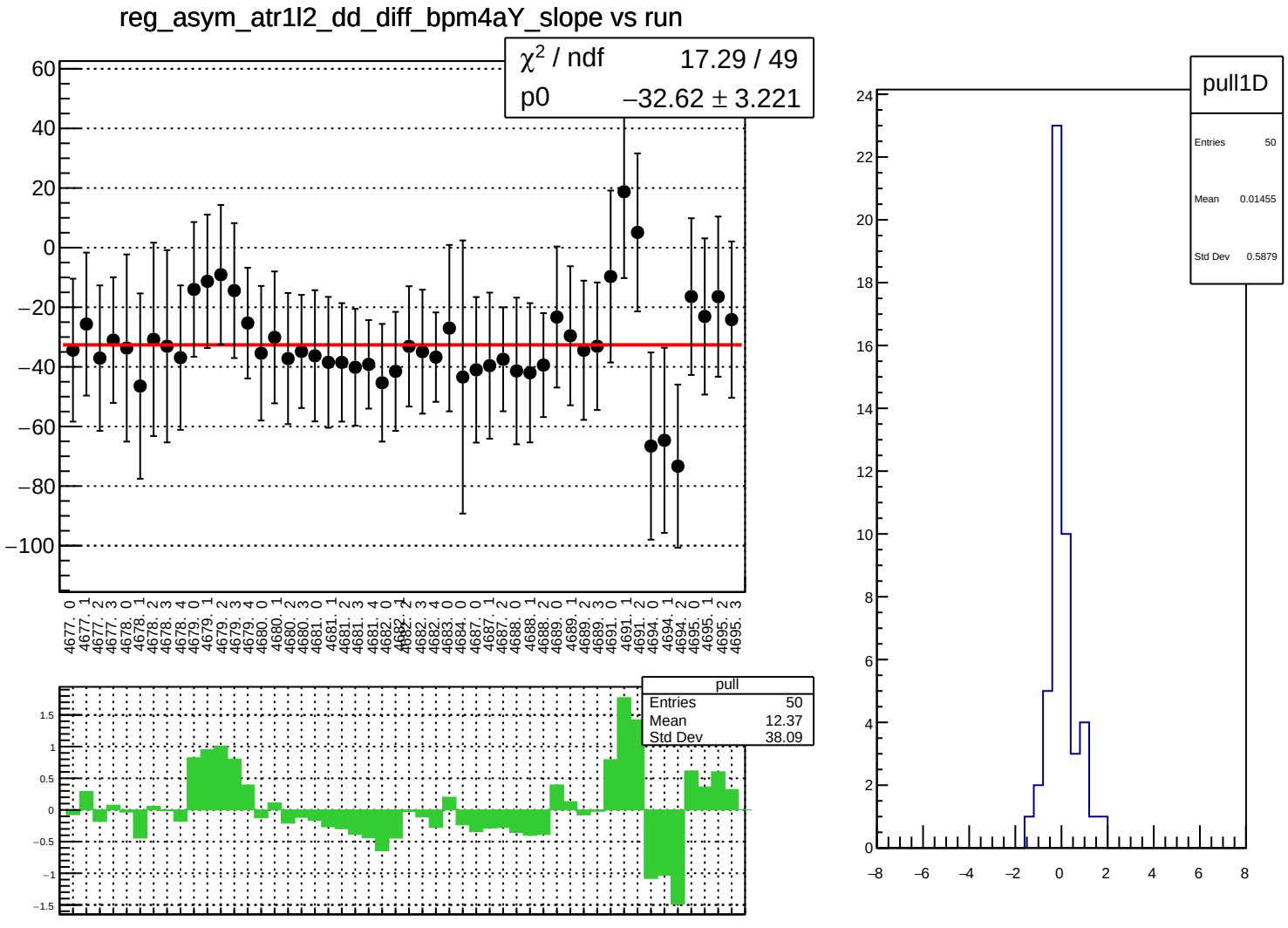

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 1655 / 49
p0 −87.87 ± 0.666
50
0
−50
−100
−150
pull
Entries 50
Mean 178.3
Std Dev 162.8
15
10
5
0
−5
−10

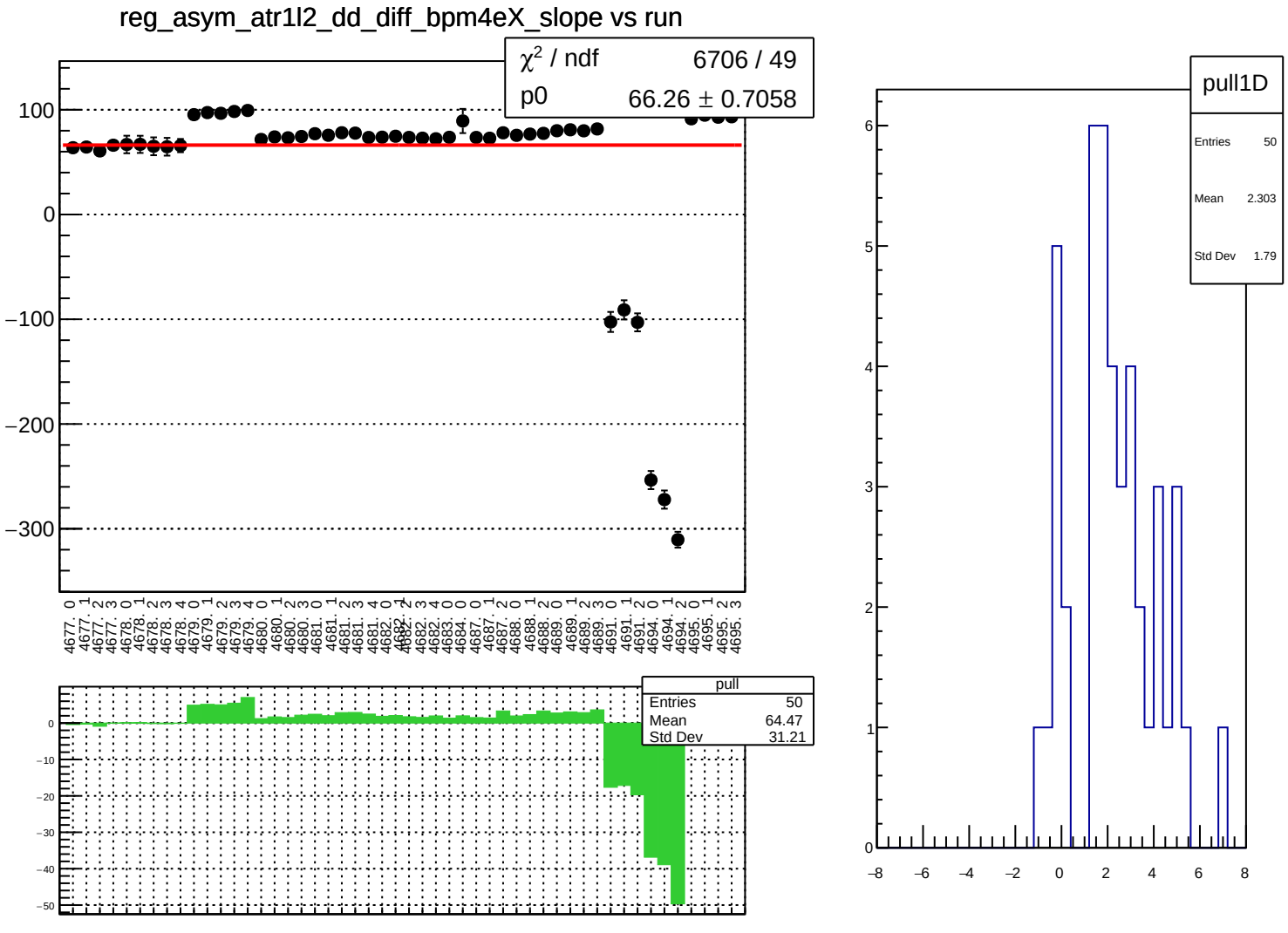

pull1D
Entries 50
Mean 0.7868
Std Dev 3.872
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

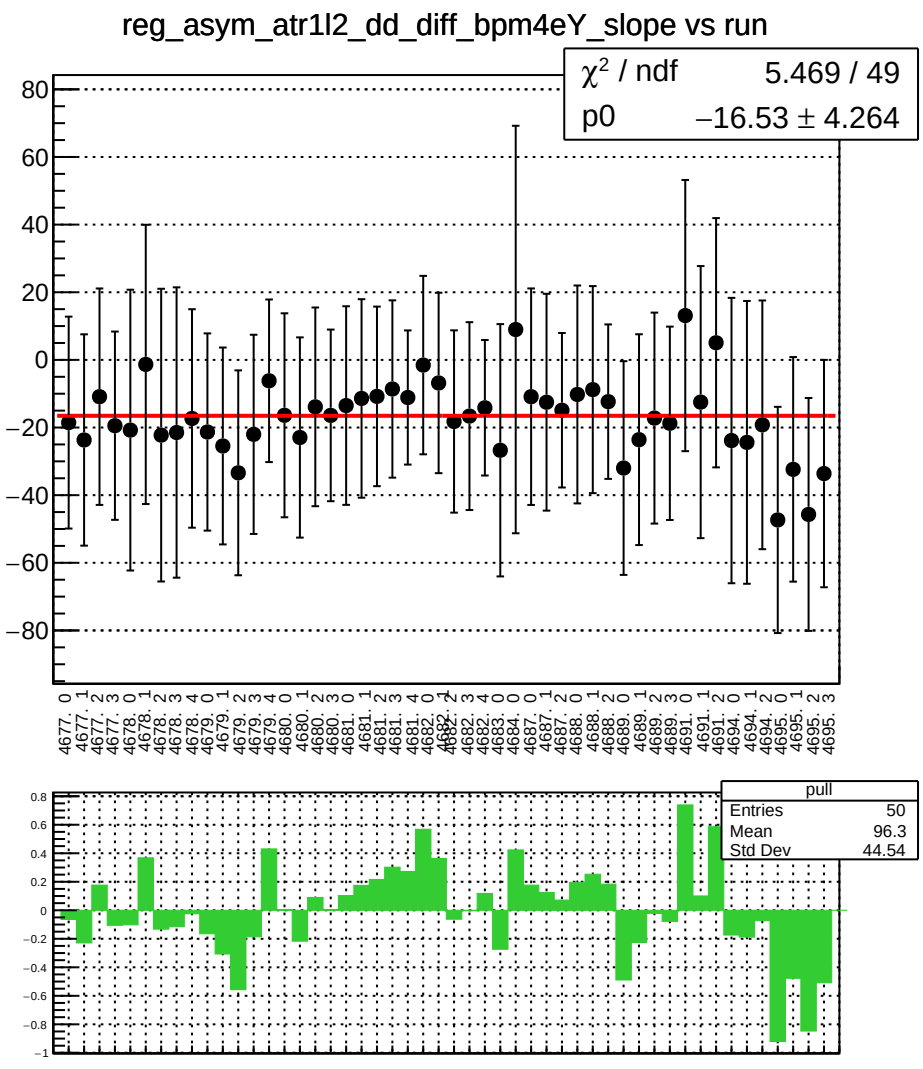

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.063 / 49
p0 15.09 ± 3.948
pull
Entries 50
Mean 38.07
Std Dev 35.4
pull1D
Entries 50
Mean 0.00494
Std Dev 0.2474

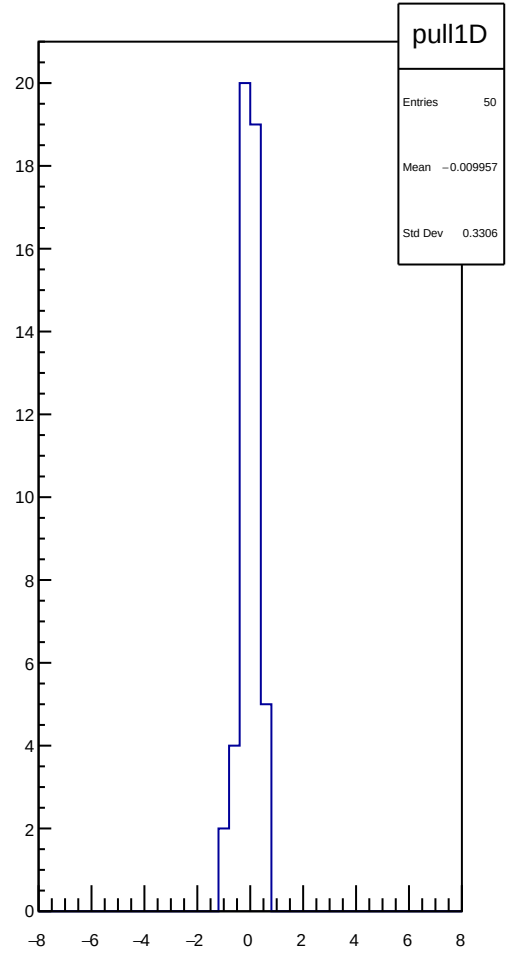

reg_asym_atr1l2_avg_diff_bpm11X_slope vs run
χ² / ndf 4320 / 49
p0 −201 ± 0.4371
pull
Entries 50
Mean 58.64
Std Dev 34.26
pull1D
Entries 50
Mean −4.341
Std Dev 0.8073

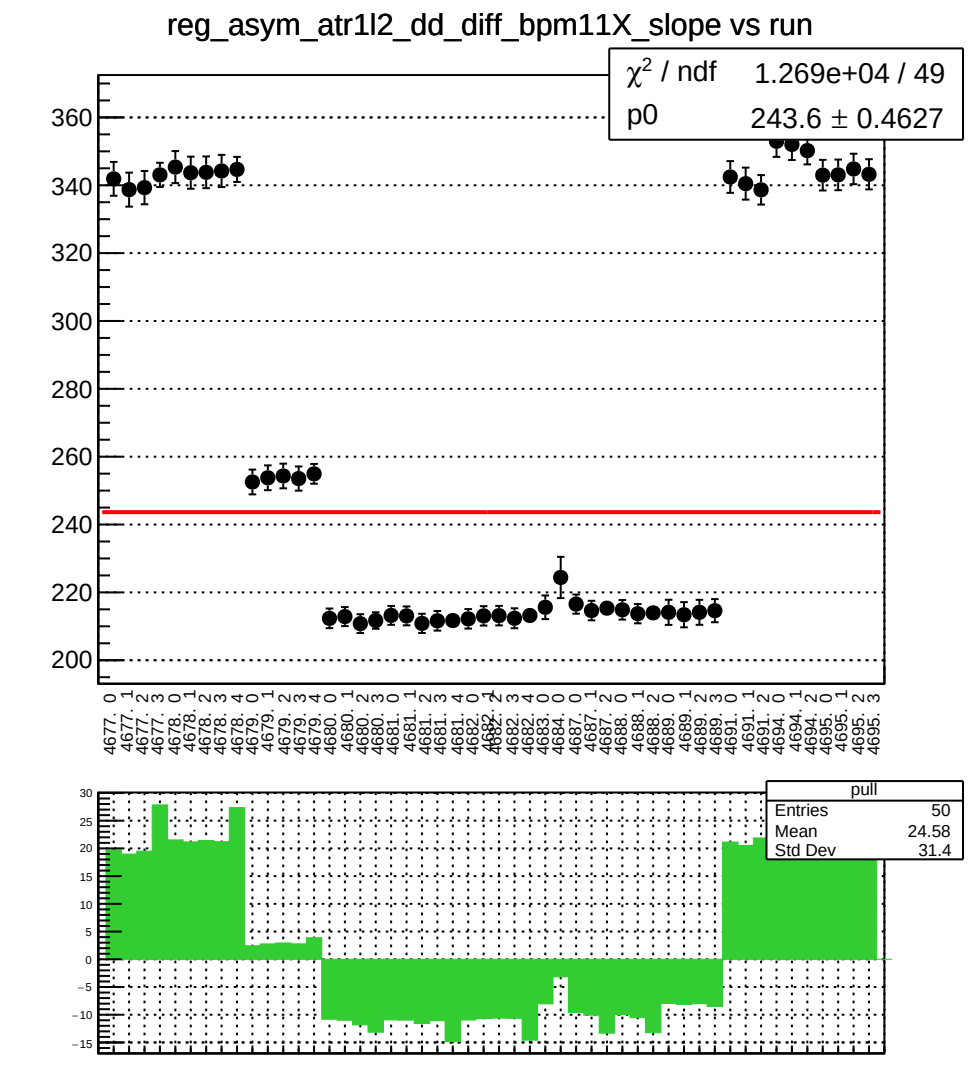

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 4339 / 49
p0 115.9 ± 3.014
pull
Entries 50
Mean 68.4
Std Dev 36.07
pull1D
Entries 50
Mean −1.893
Std Dev 1.145

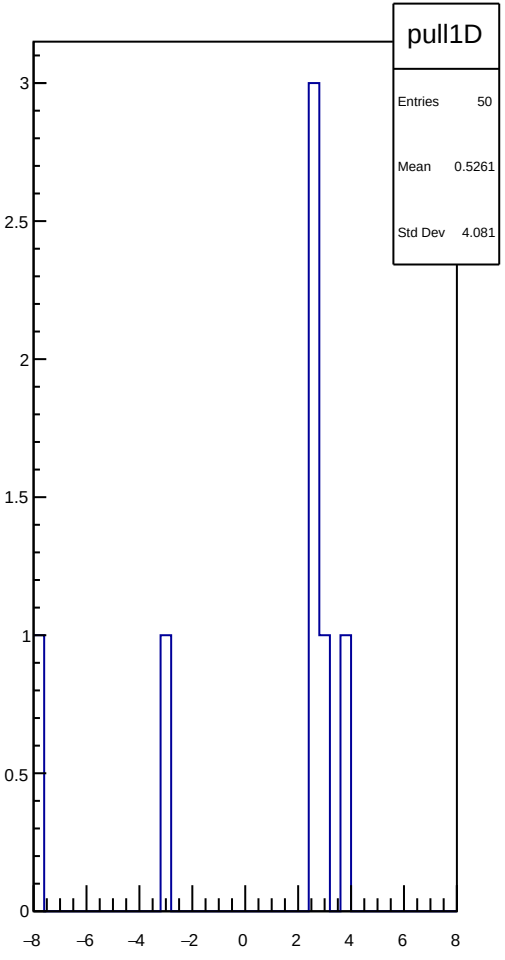

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.29 / 49
p0 −32.62 ± 3.221
pull
Entries 50
Mean 12.37
Std Dev 38.09
pull1D
Entries 50
Mean 0.01455
Std Dev 0.5879

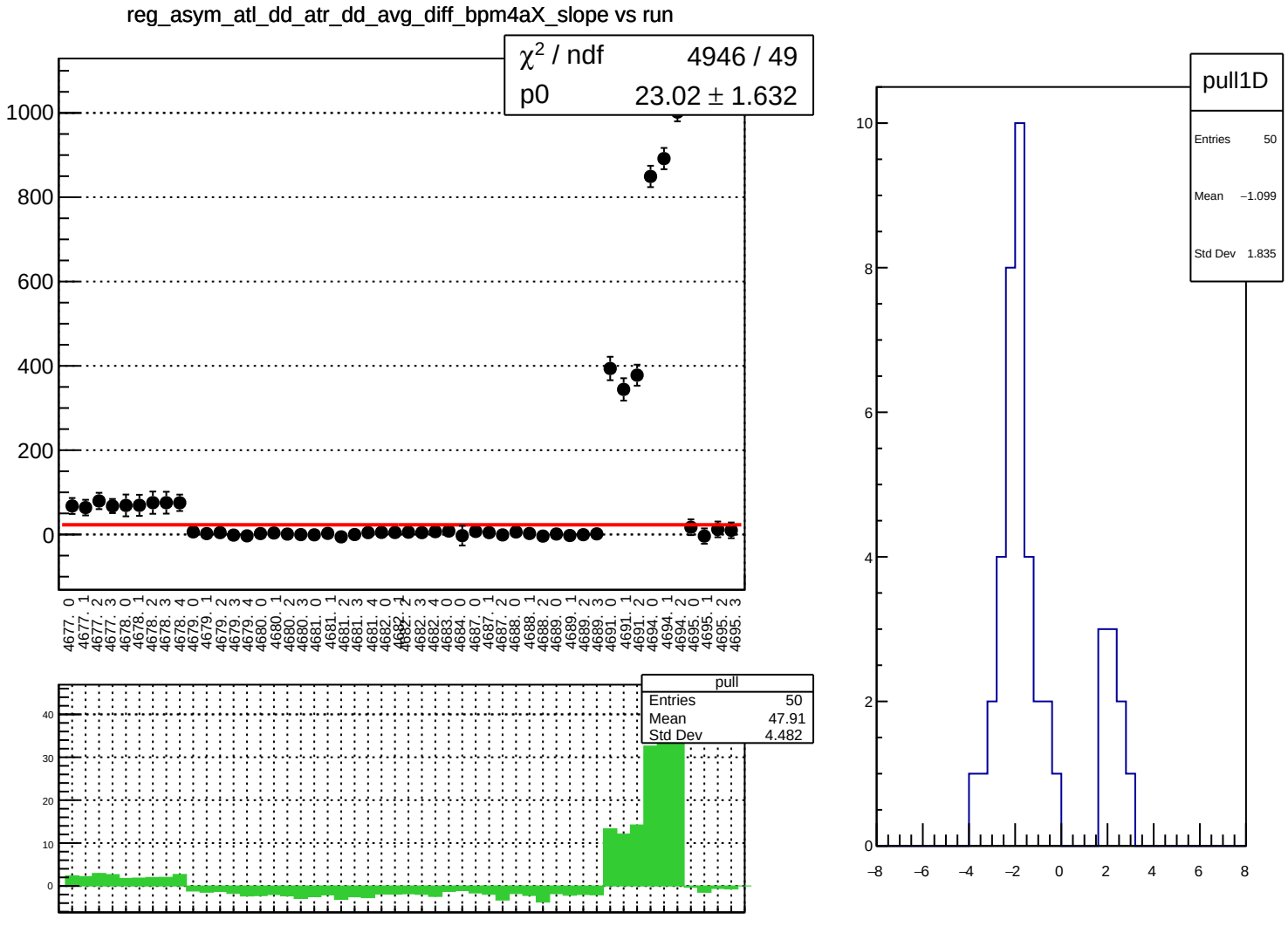

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 6706 / 49
p0 66.26 ± 0.7058
pull
Entries 50
Mean 64.47
Std Dev 31.21
pull1D
Entries 50
Mean 2.303
Std Dev 1.79

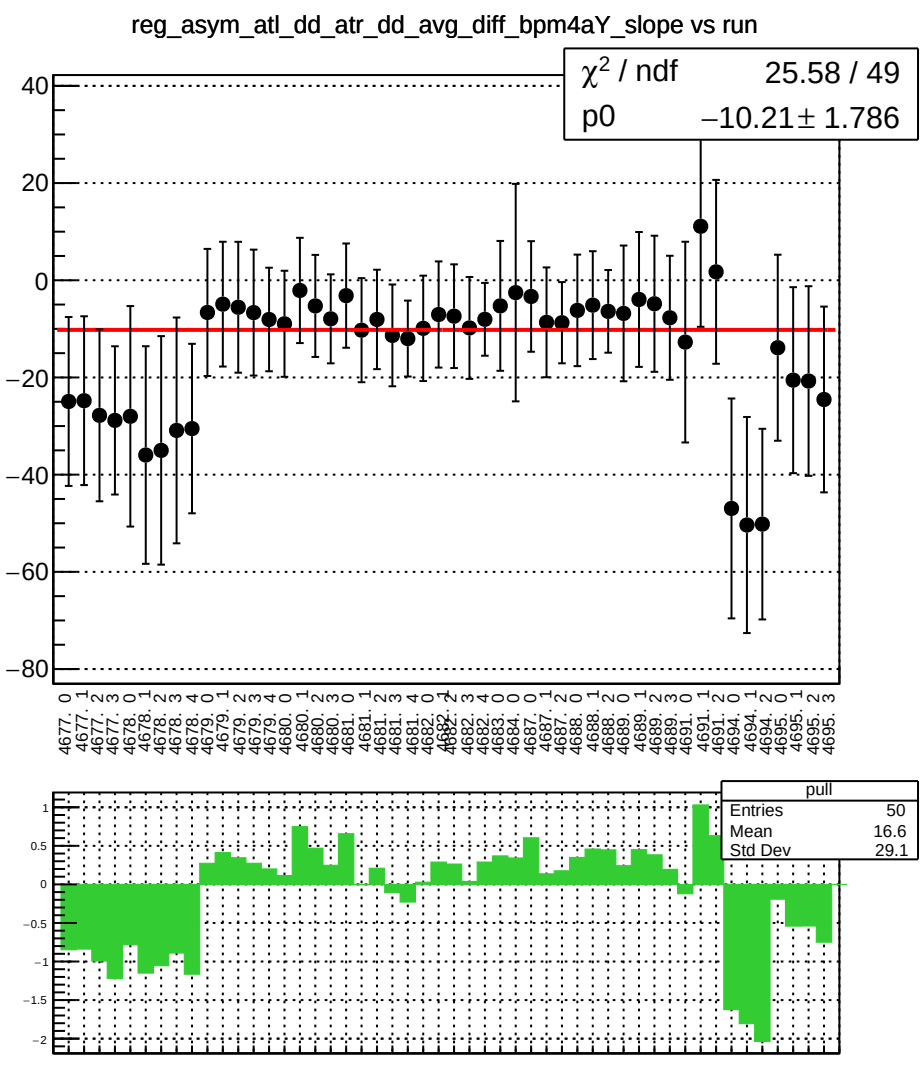

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.469 / 49
p0 −16.53 ± 4.264
pull
Entries 50
Mean 96.3
Std Dev 44.54

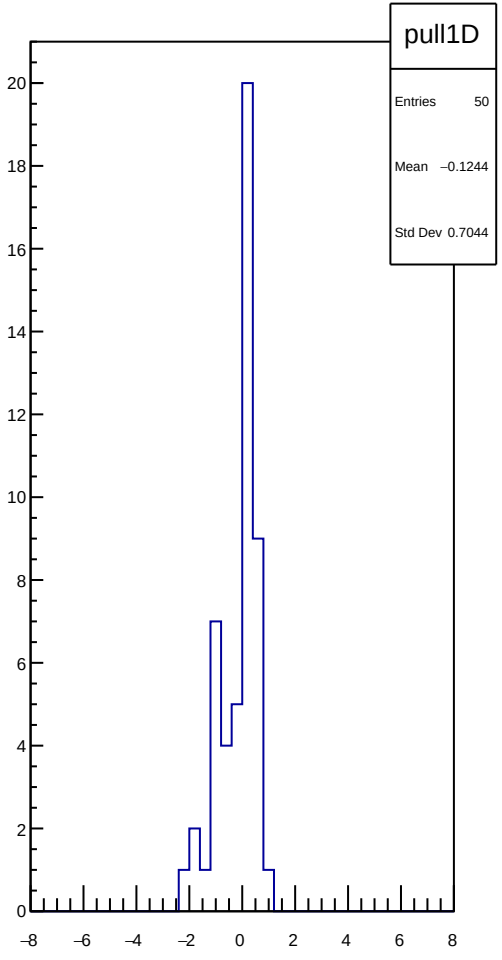

pull1D
Entries 50
Mean −0.009957
Std Dev 0.3306

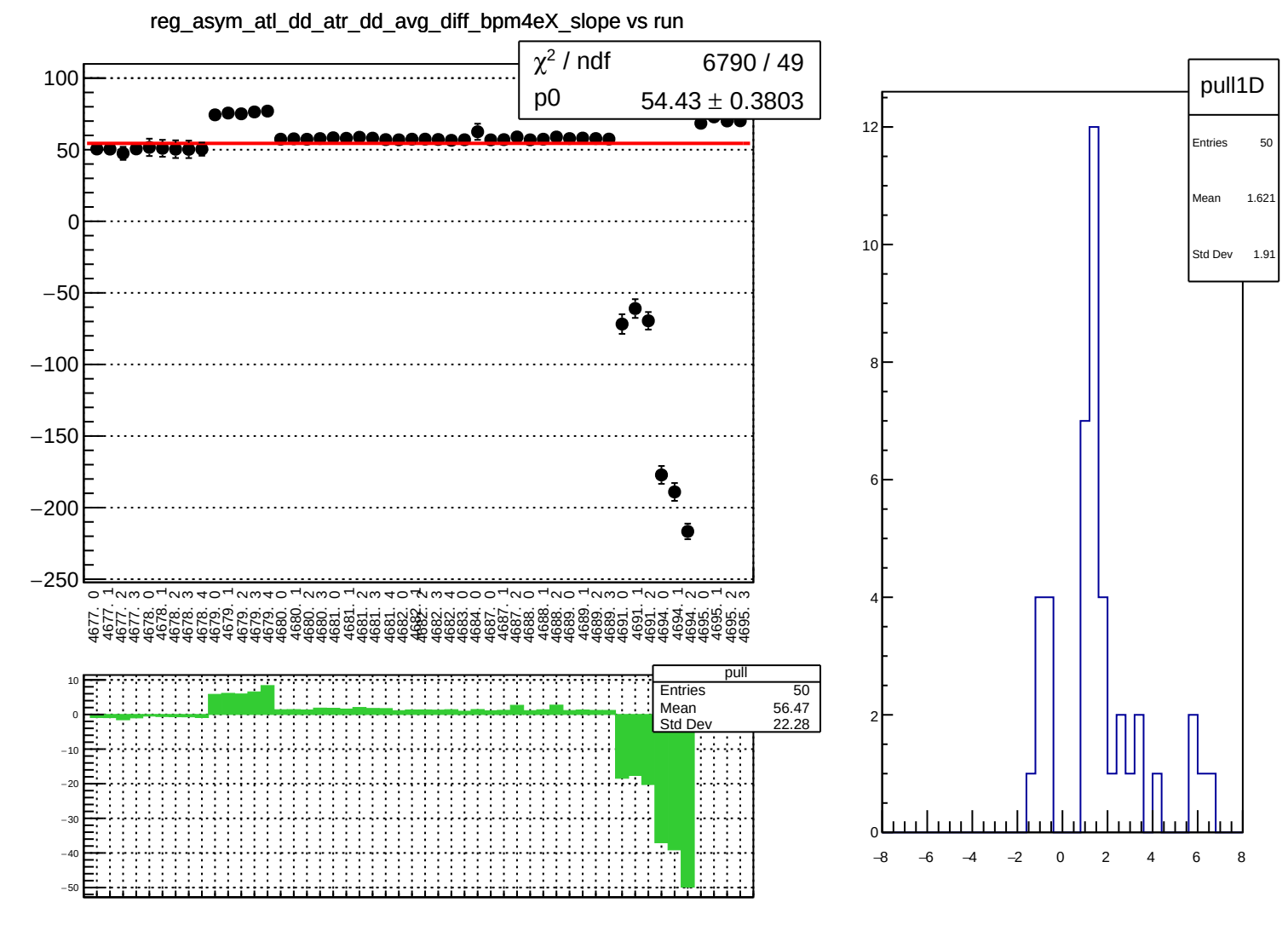

reg_asym_atr1l2_dd_diff_bpm11X_slope vs run
χ² / ndf 1.269e+04 / 49
p0 243.6 ± 0.4627
pull
Entries 50
Mean 24.58
Std Dev 31.4

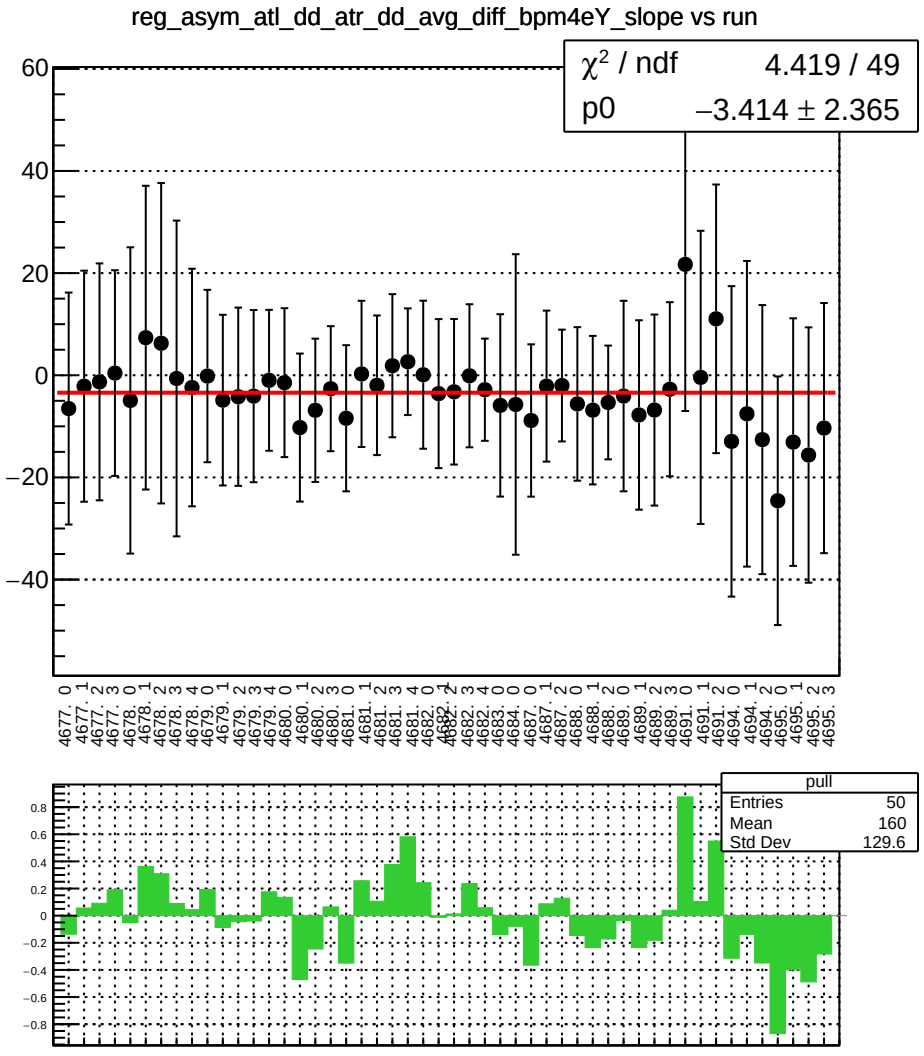

pull1D
Entries 50
Mean 0.5261
Std Dev 4.081

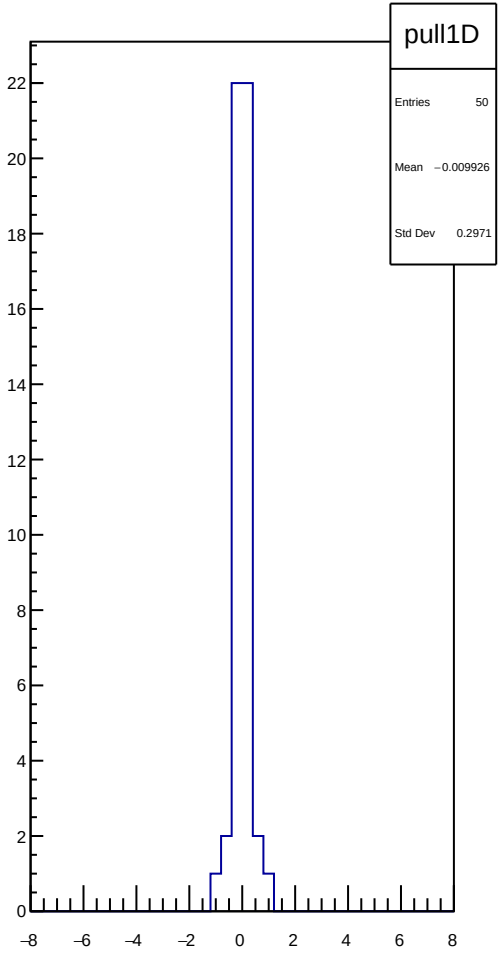

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 4946 / 49
p0 23.02 ± 1.632
1000
800
600
400
200
0
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 47.91
Std Dev 4.482
40
30
20
10
0
pull1D
Entries 50
Mean −1.099
Std Dev 1.835
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

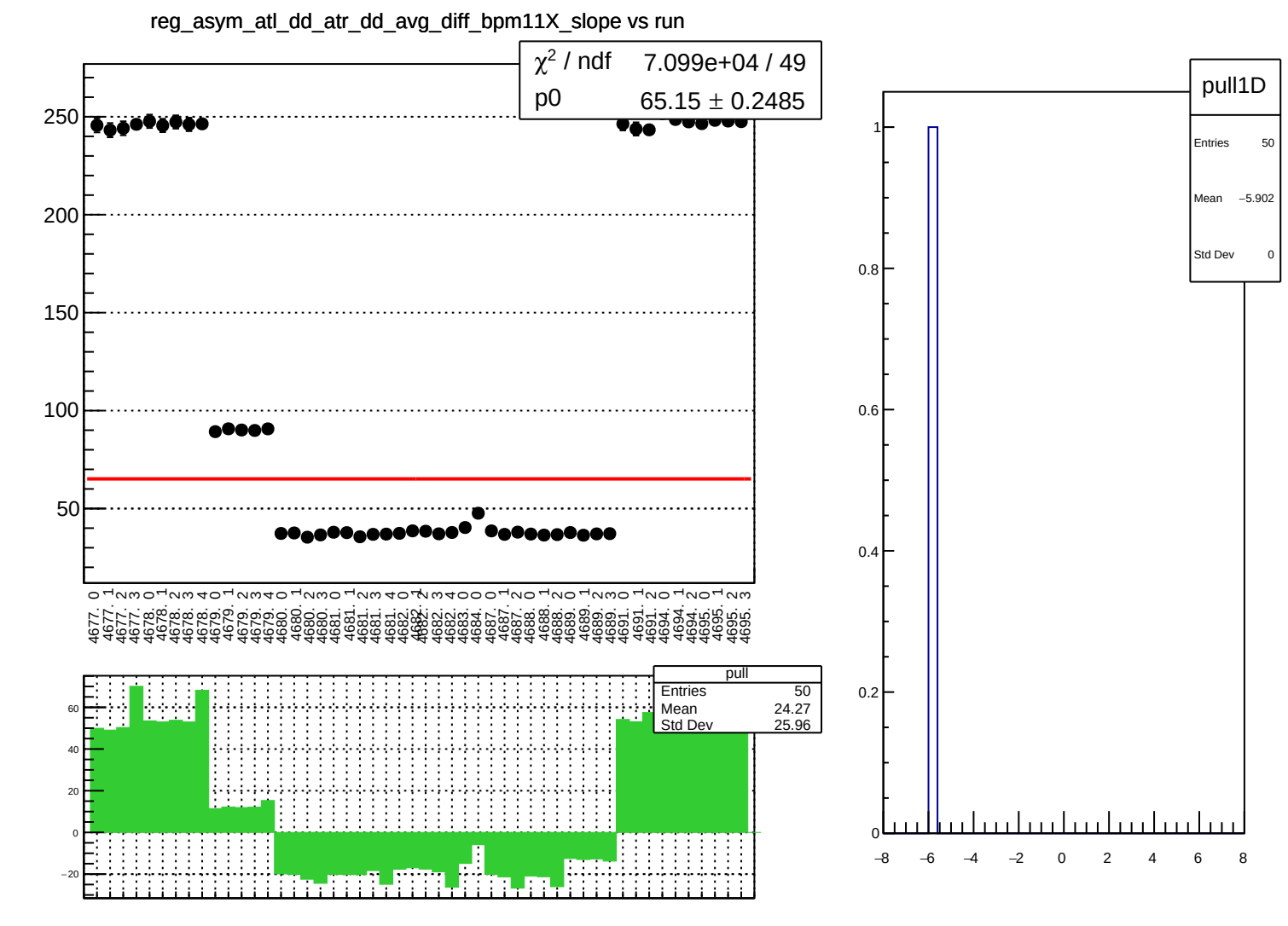

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.58 / 49
p0 −10.21 ± 1.786
pull
Entries 50
Mean 16.6
Std Dev 29.1

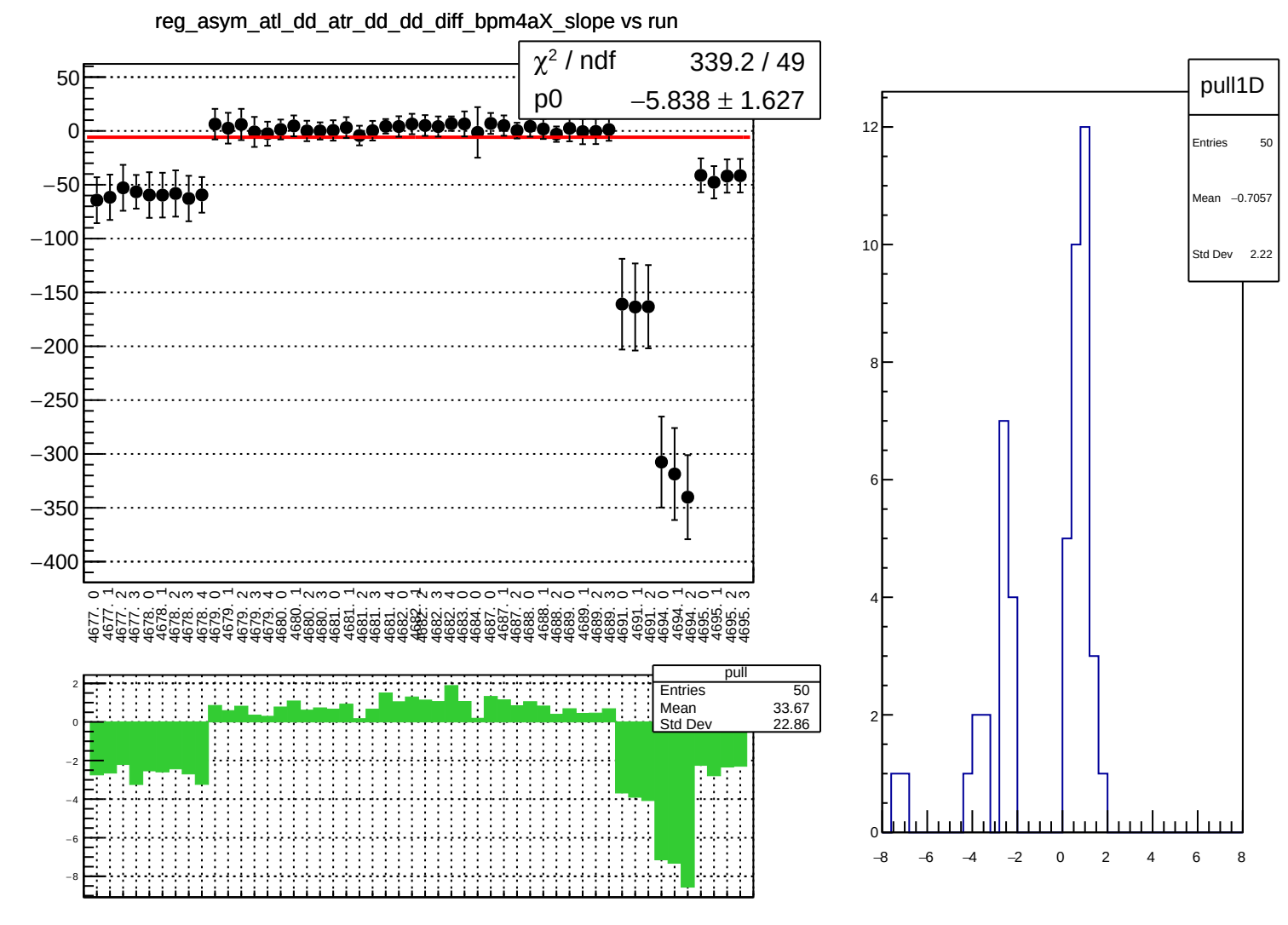

pull1D
Entries 50
Mean −0.1244
Std Dev 0.7044

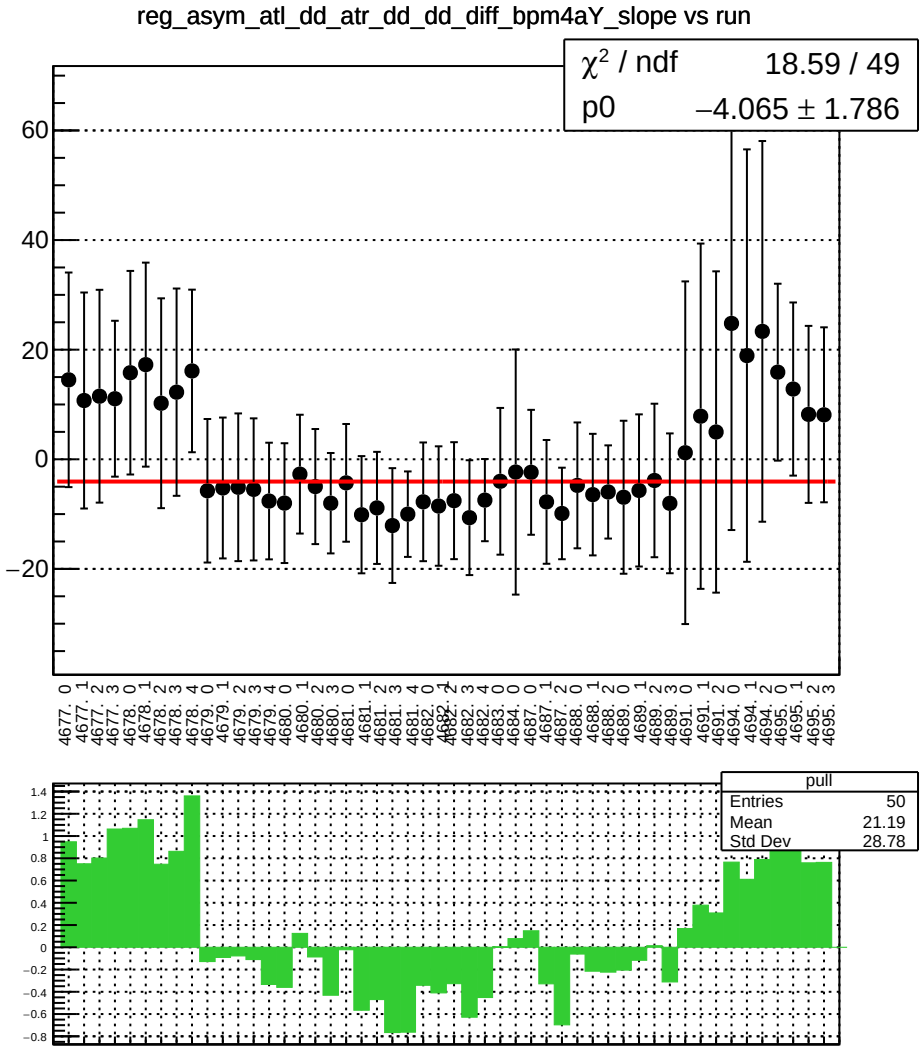

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 6790 / 49
p0 54.43 ± 0.3803
pull
Entries 50
Mean 56.47
Std Dev 22.28
pull1D
Entries 50
Mean 1.621
Std Dev 1.91

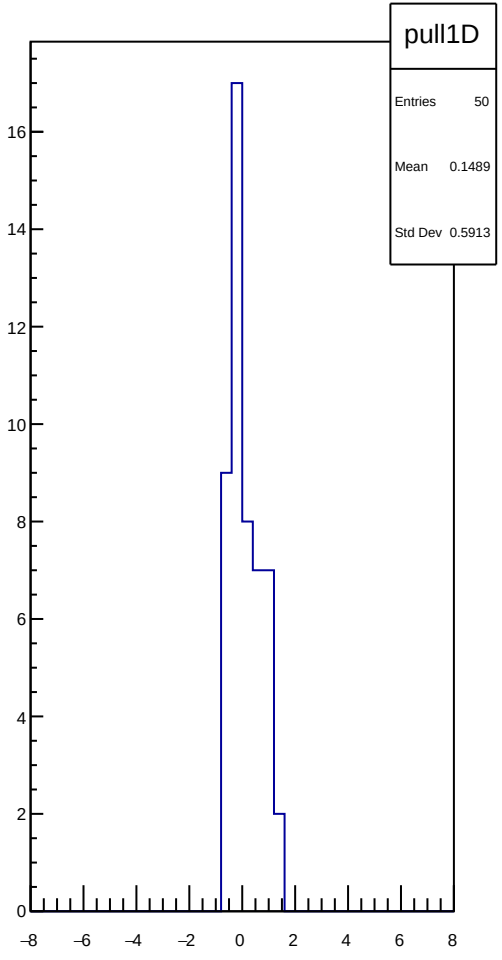

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.419 / 49
p0 −3.414 ± 2.365
pull
Entries 50
Mean 160
Std Dev 129.6

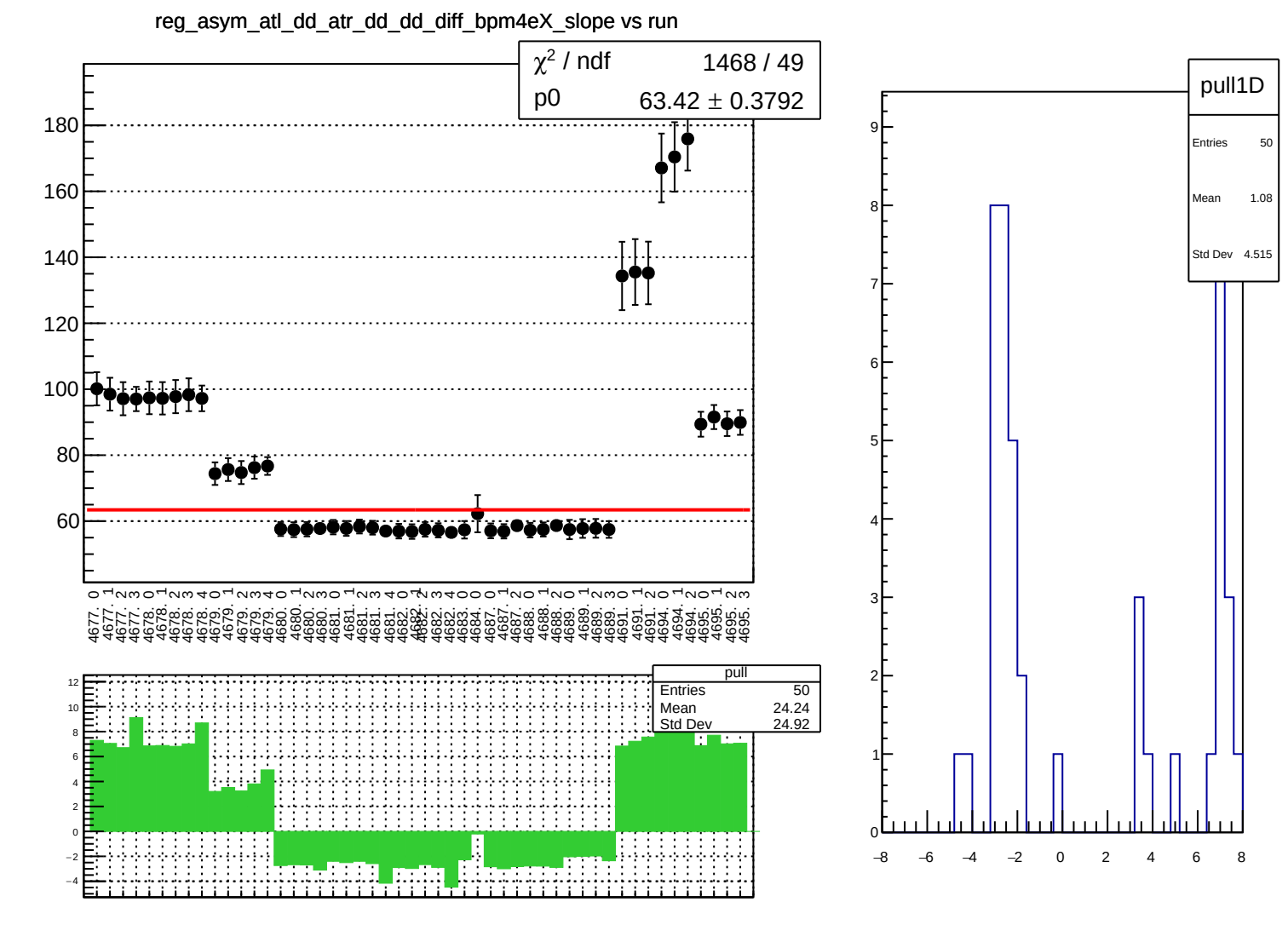

pull1D
Entries 50
Mean −0.009926
Std Dev 0.2971

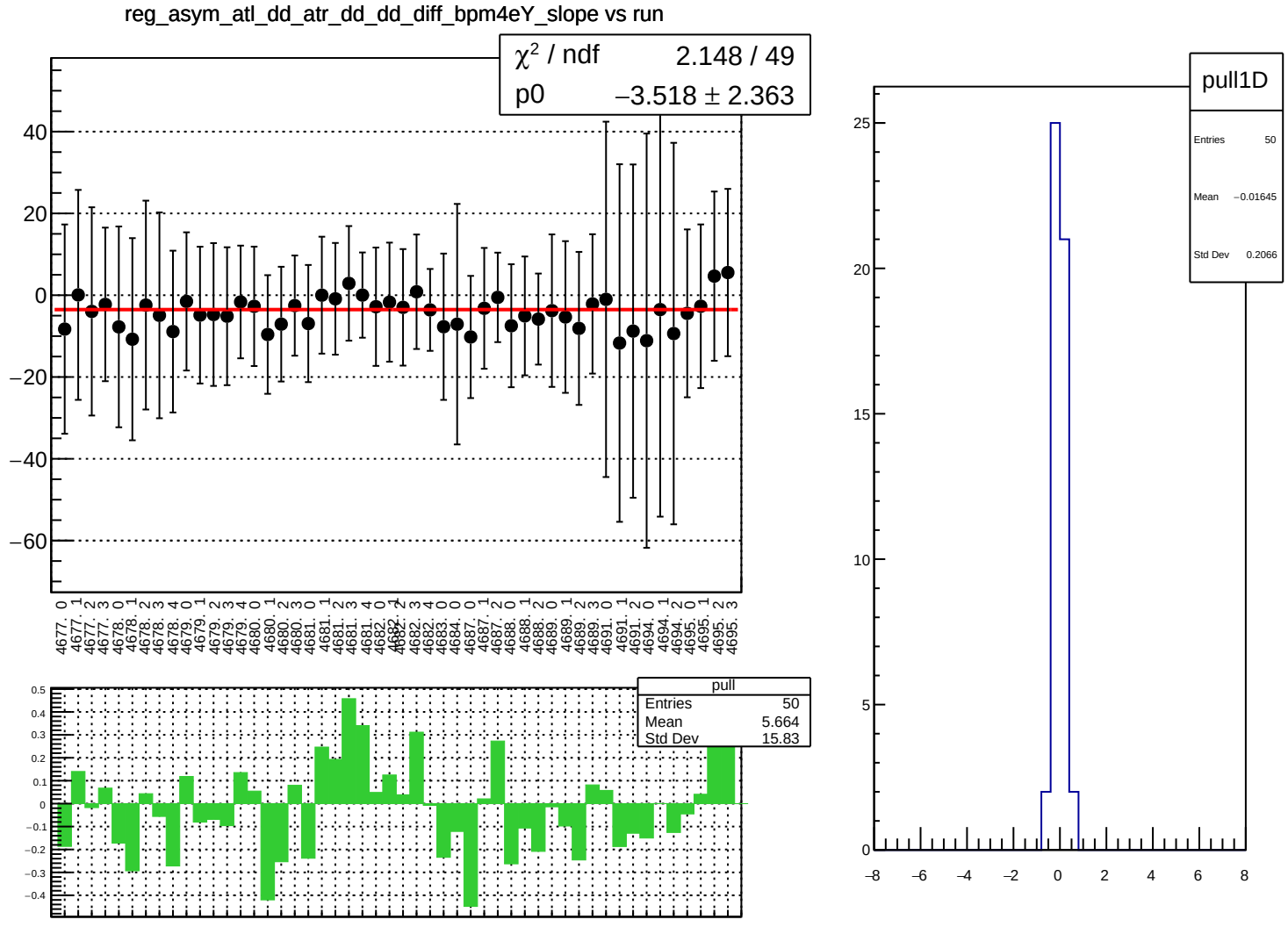

reg_asym_atl_dd_atr_dd_avg_diff_bpm11X_slope vs run
χ² / ndf 7.099e+04 / 49
p0 65.15 ± 0.2485
250
200
150
100
50
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 24.27
Std Dev 25.96
60
40
20
0
−20
pull1D
Entries 50
Mean −5.902
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

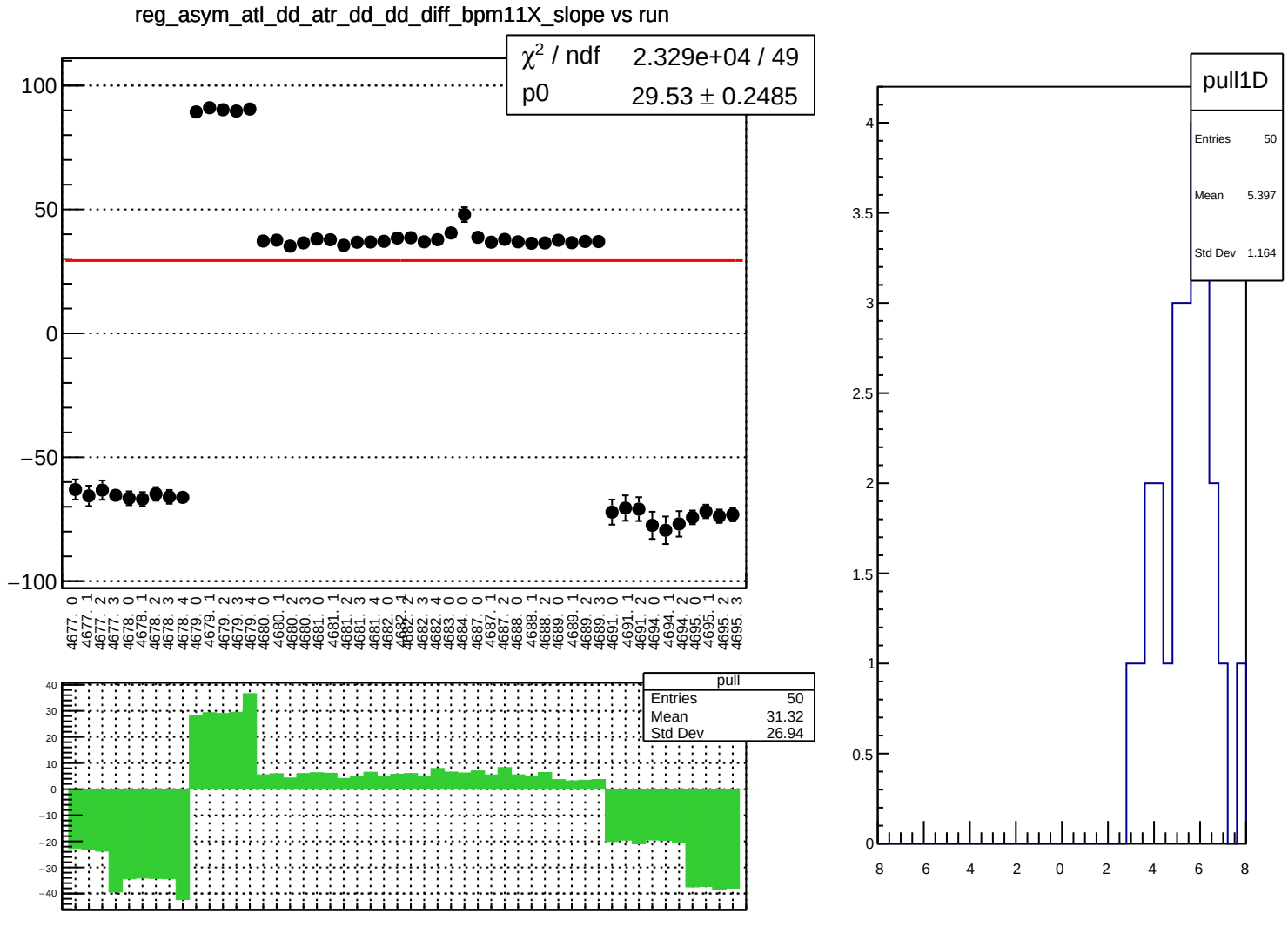

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 339.2 / 49
p0 −5.838 ± 1.627
pull
Entries 50
Mean 33.67
Std Dev 22.86
pull1D
Entries 50
Mean −0.7057
Std Dev 2.22

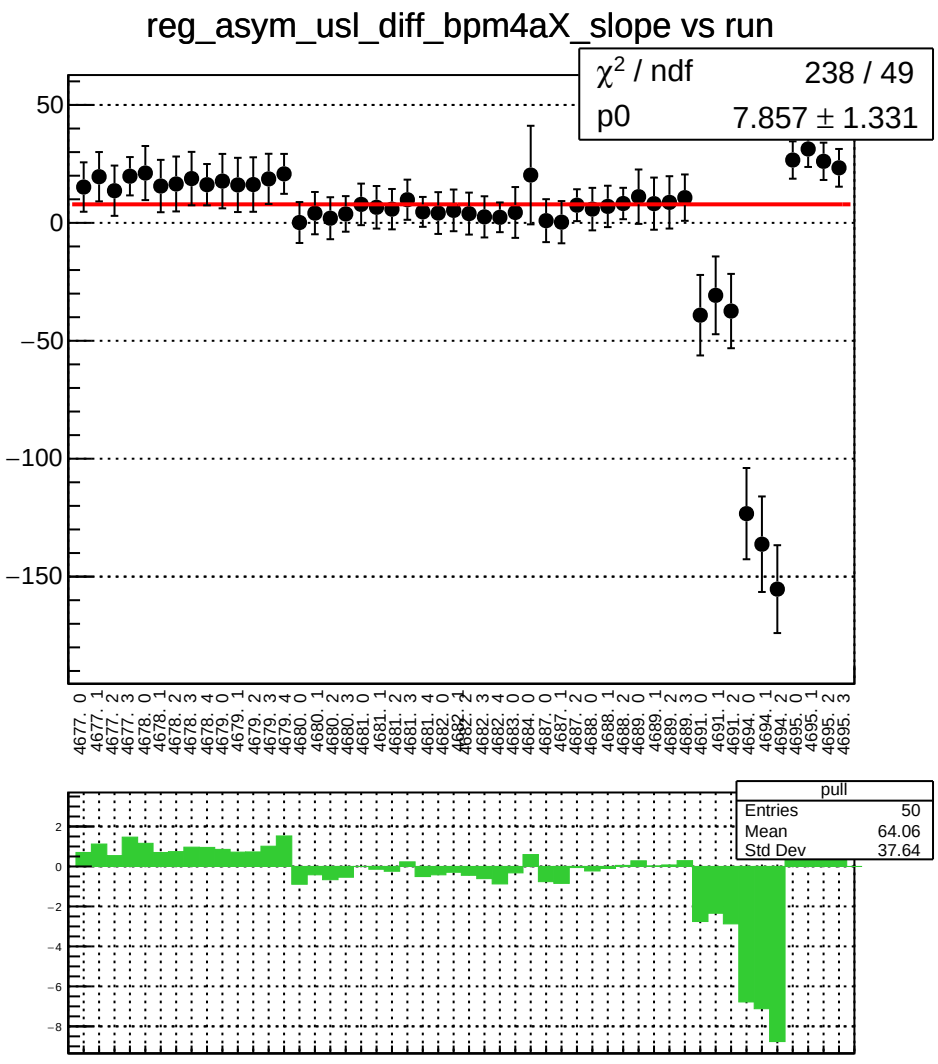

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.59 / 49
p0 −4.065 ± 1.786
pull
Entries 50
Mean 21.19
Std Dev 28.78

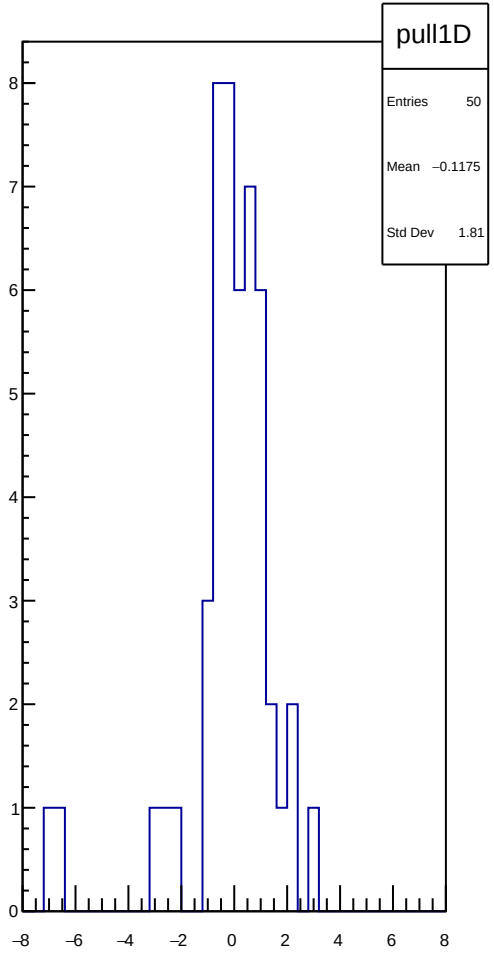

pull1D
Entries 50
Mean 0.1489
Std Dev 0.5913

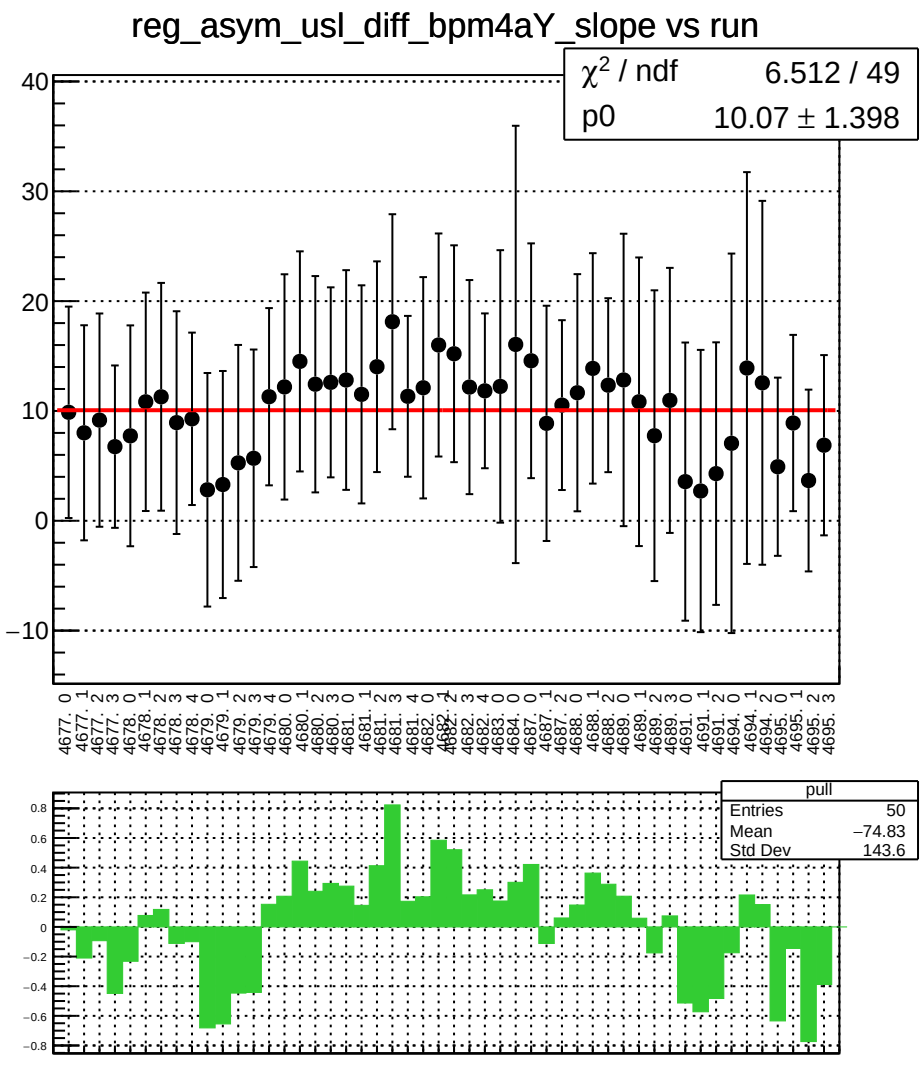

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 1468 / 49
p0 63.42 ± 0.3792
pull
Entries 50
Mean 24.24
Std Dev 24.92
pull1D
Entries 50
Mean 1.08
Std Dev 4.515

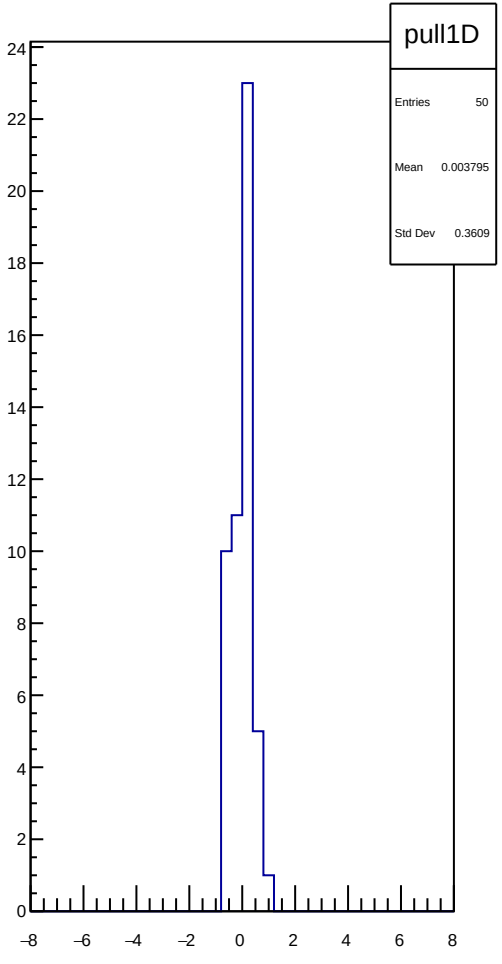

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.148 / 49
p0 −3.518 ± 2.363
pull
Entries 50
Mean 5.664
Std Dev 15.83
pull1D
Entries 50
Mean −0.01645
Std Dev 0.2066

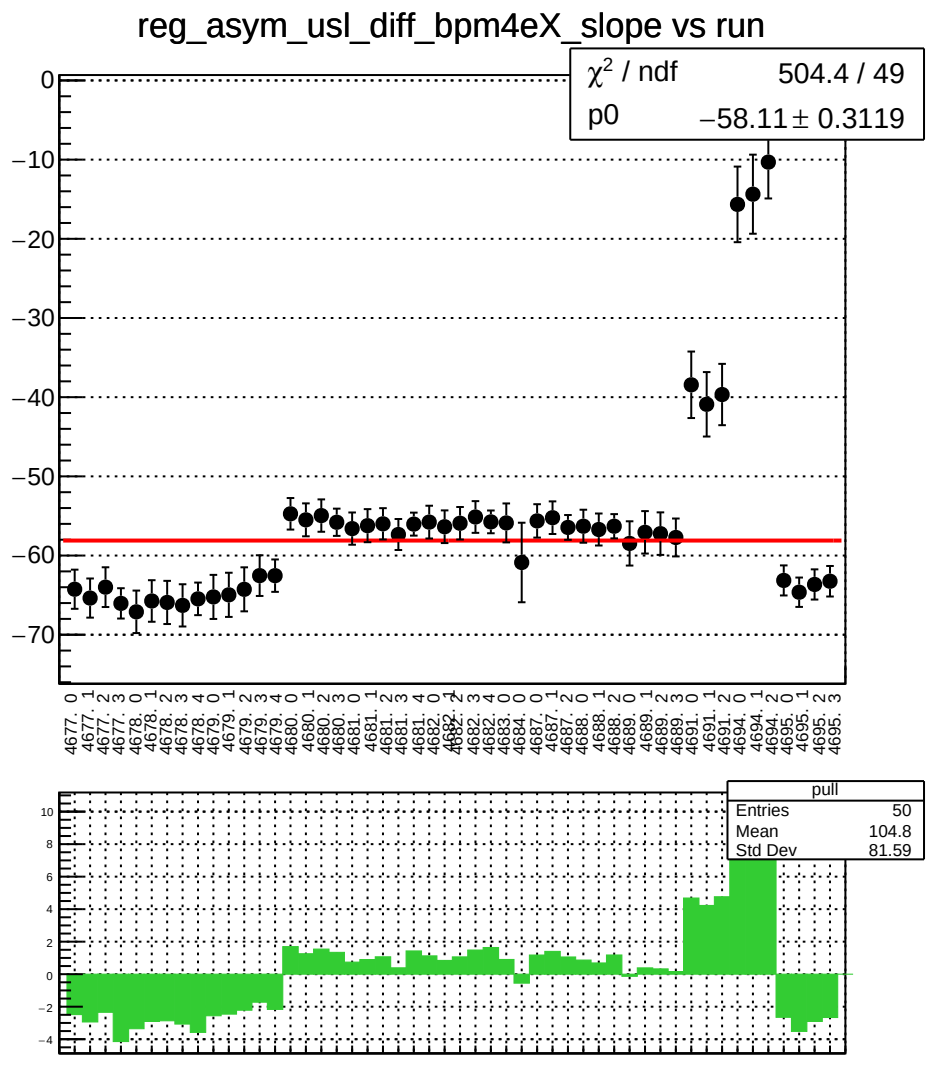

reg_asym_atl_dd_atr_dd_dd_diff_bpm11X_slope vs run
χ² / ndf 2.329e+04 / 49
p0 29.53 ± 0.2485
pull
Entries 50
Mean 31.32
Std Dev 26.94
pull1D
Entries 50
Mean 5.397
Std Dev 1.164

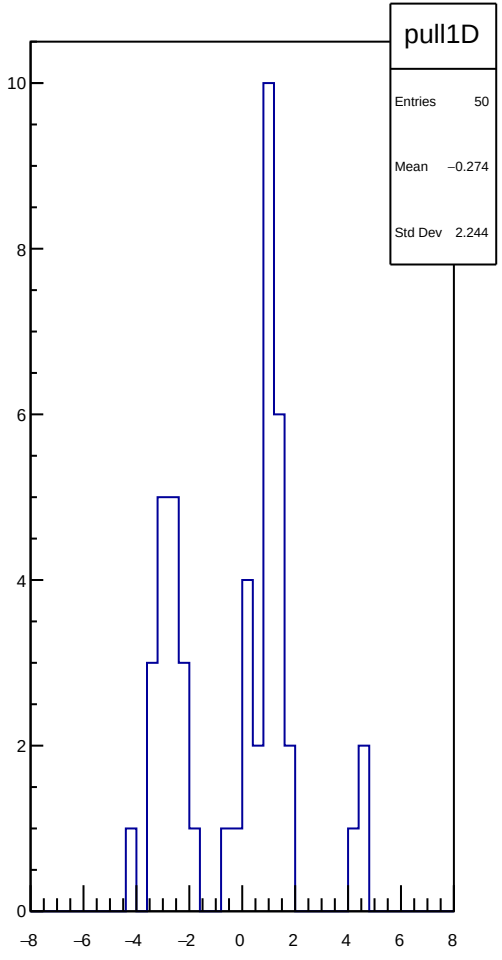

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 238 / 49
p0 7.857 ± 1.331
50
0
−50
−100
−150
pull
Entries 50
Mean 64.06
Std Dev 37.64
2
0
−2
−4
−6
−8

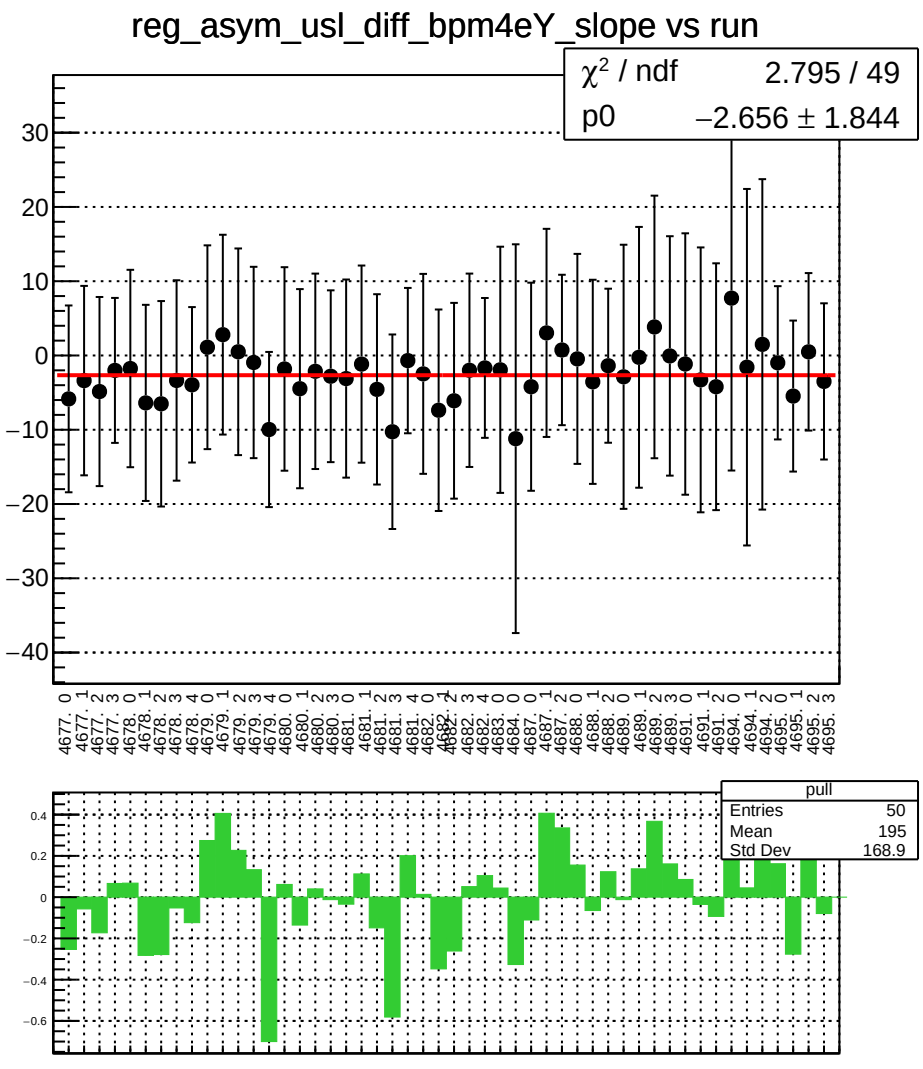

pull1D
Entries 50
Mean −0.1175
Std Dev 1.81
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

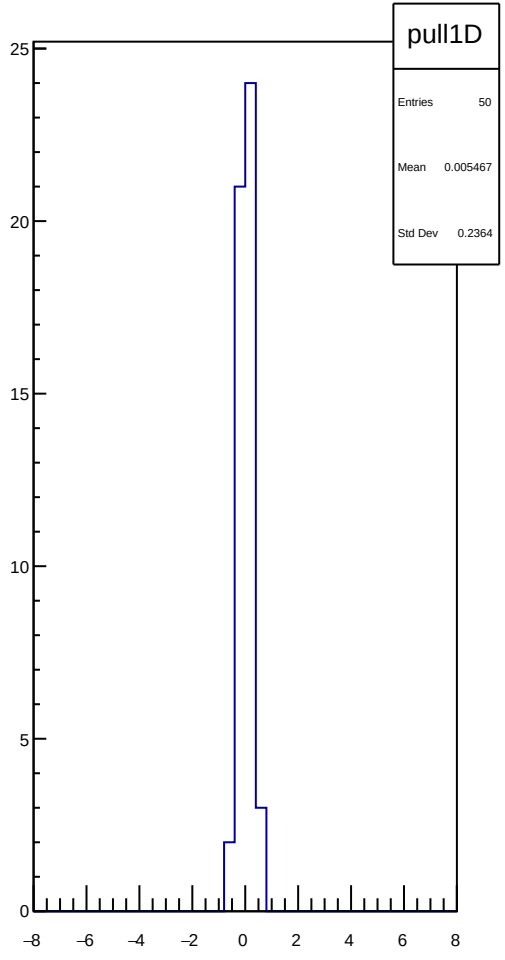

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 6.512 / 49
p0 10.07 ± 1.398
pull
Entries 50
Mean −74.83
Std Dev 143.6

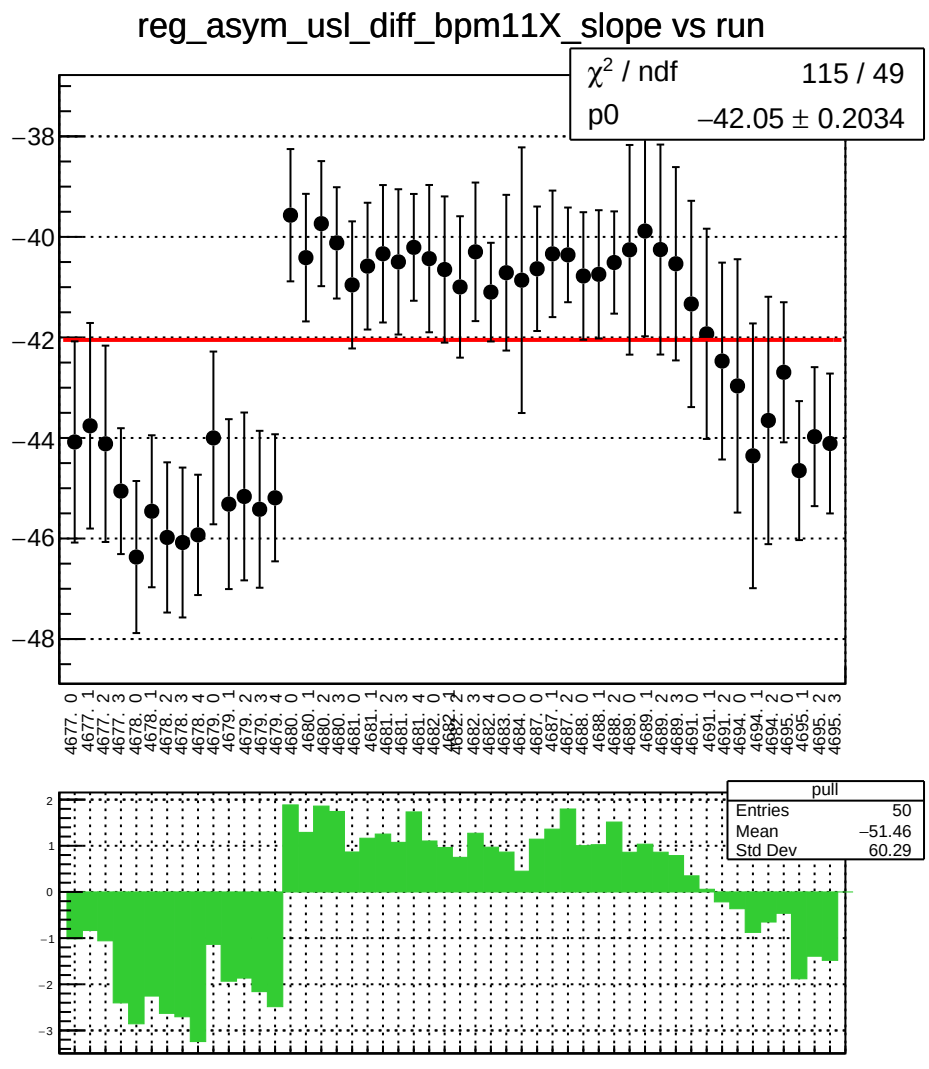

pull1D
Entries 50
Mean 0.003795
Std Dev 0.3609

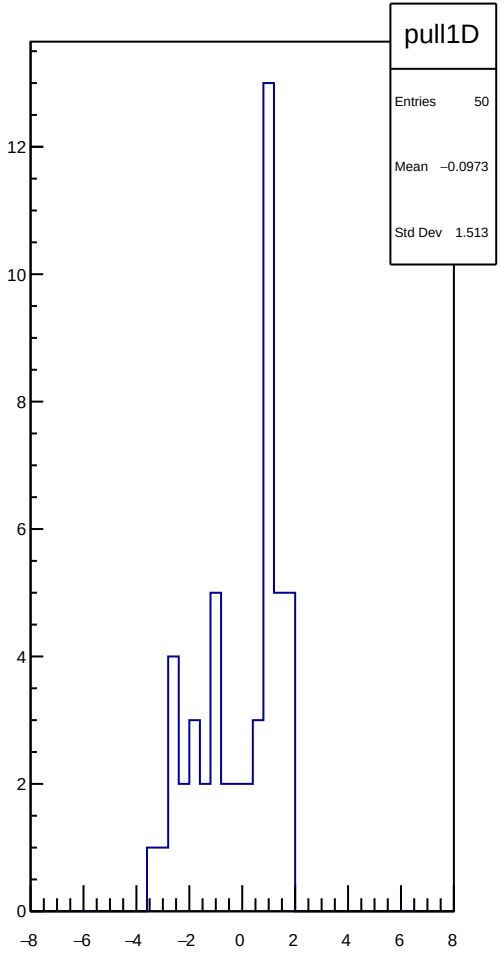

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 504.4 / 49
p0 −58.11 ± 0.3119
pull
Entries 50
Mean 104.8
Std Dev 81.59

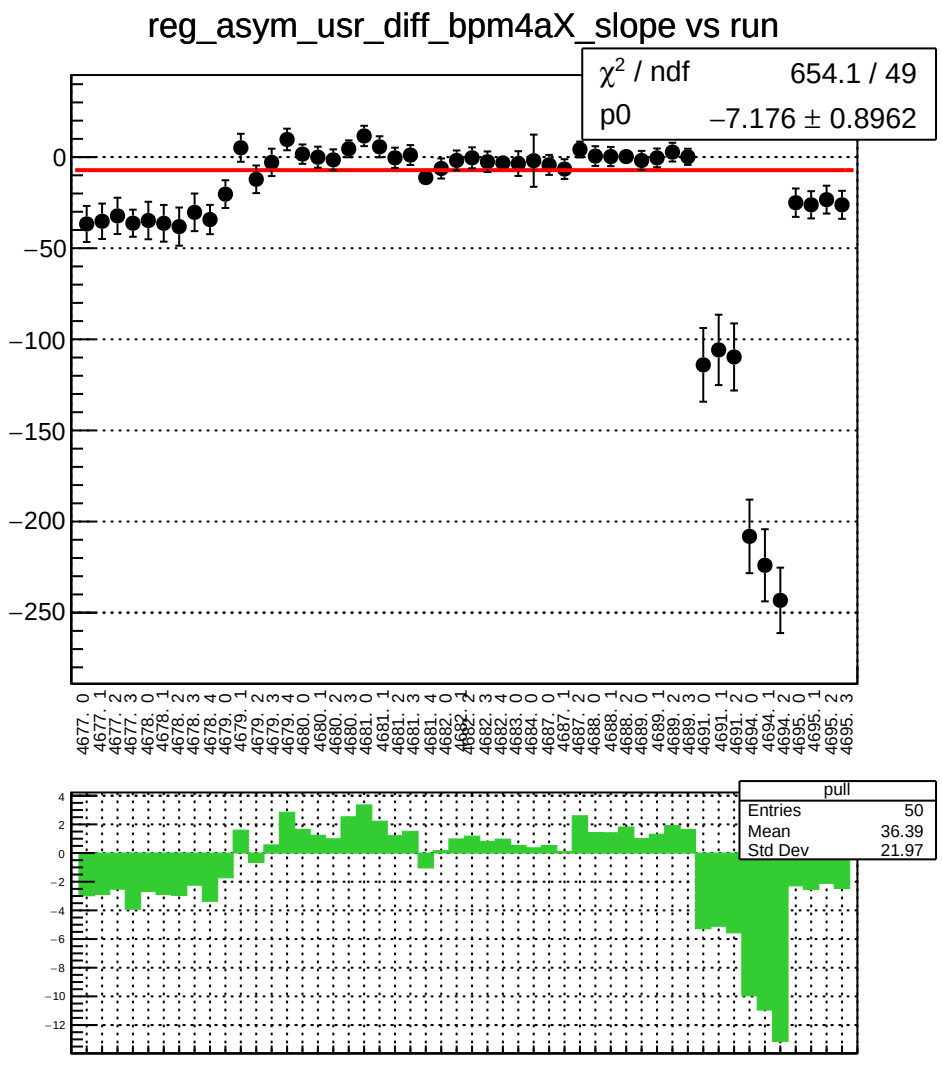

pull1D
Entries 50
Mean −0.274
Std Dev 2.244

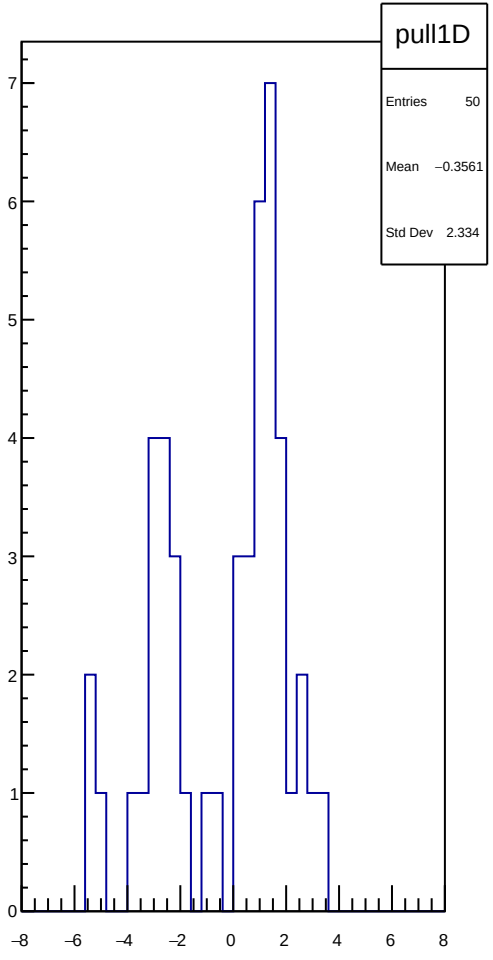

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 2.795 / 49
p0 −2.656 ± 1.844
pull
Entries 50
Mean 195
Std Dev 168.9

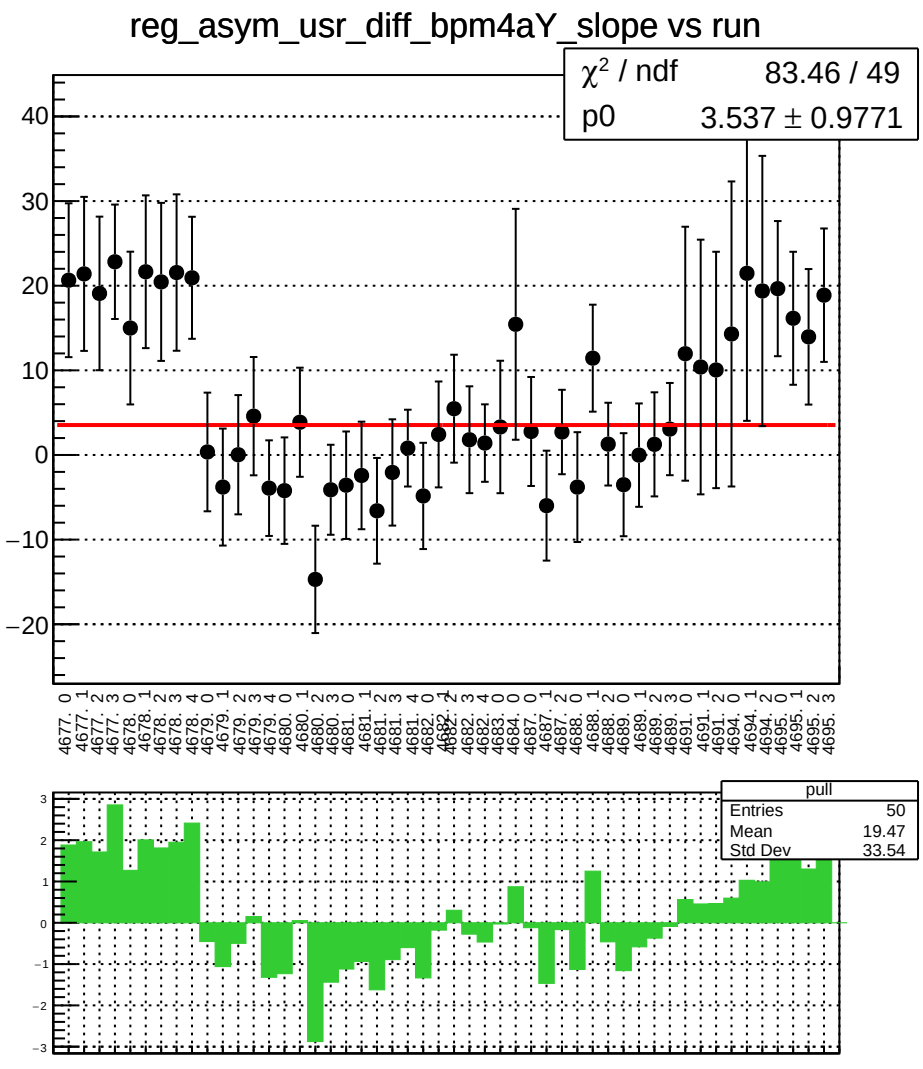

pull1D
Entries 50
Mean 0.005467
Std Dev 0.2364

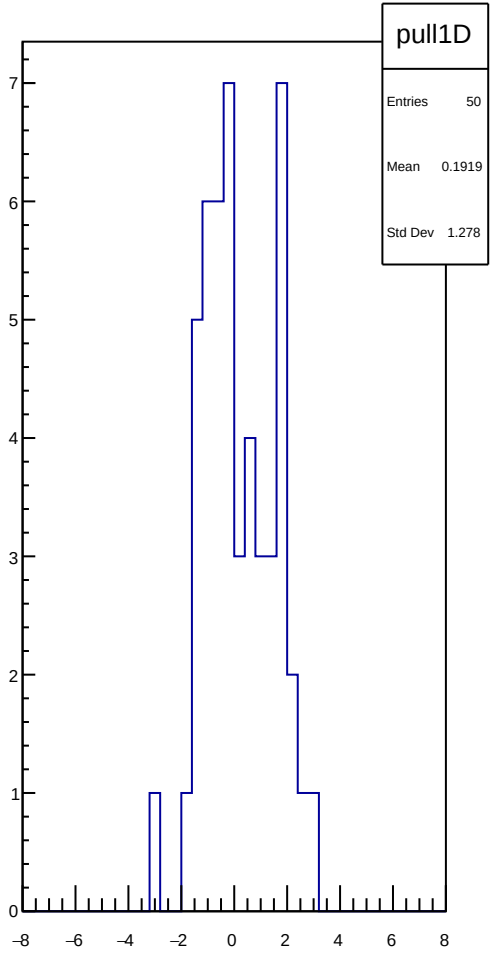

reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 115 / 49
p0 −42.05 ± 0.2034
pull
Entries 50
Mean −51.46
Std Dev 60.29

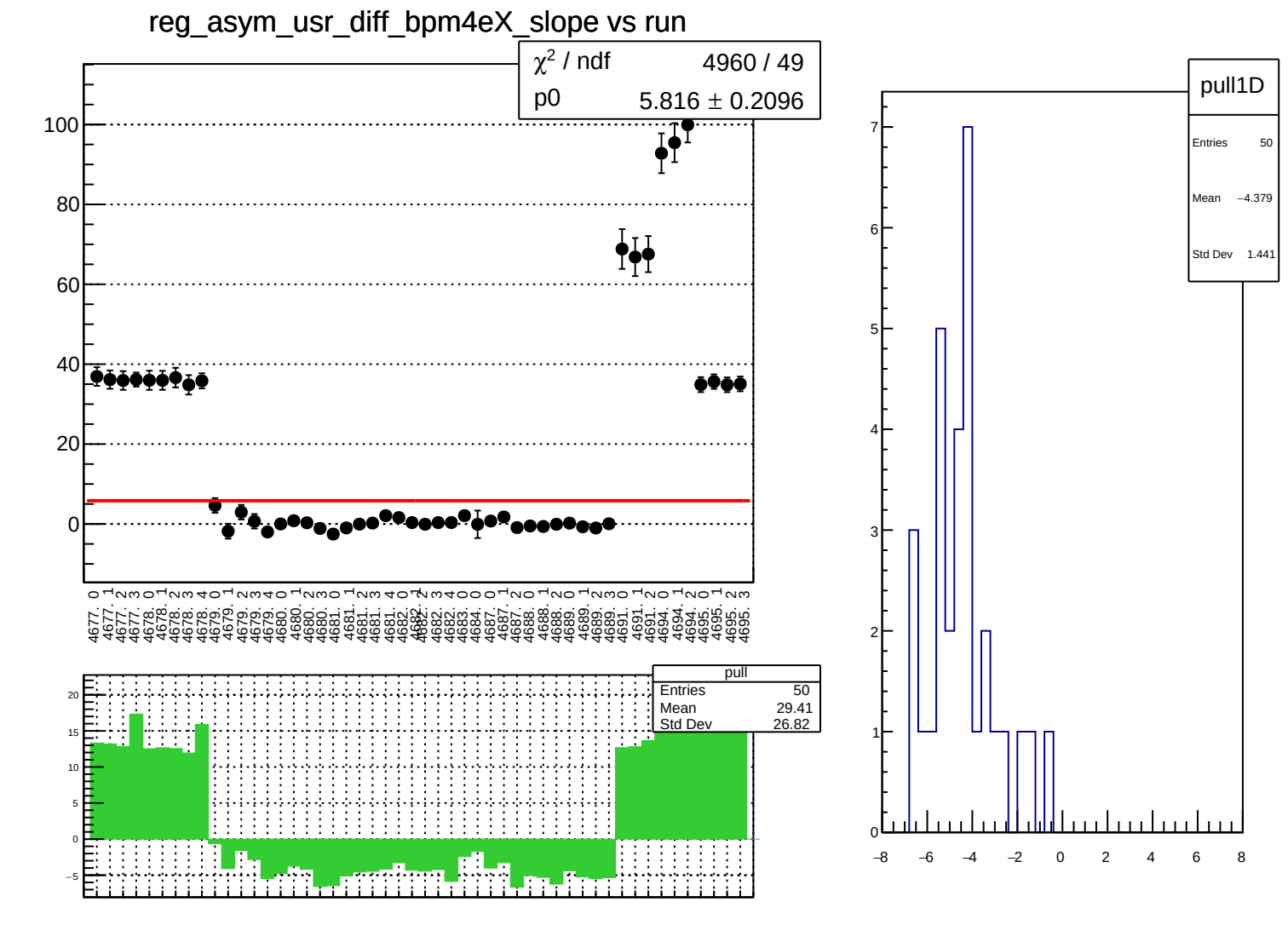

pull1D
Entries 50
Mean −0.0973
Std Dev 1.513

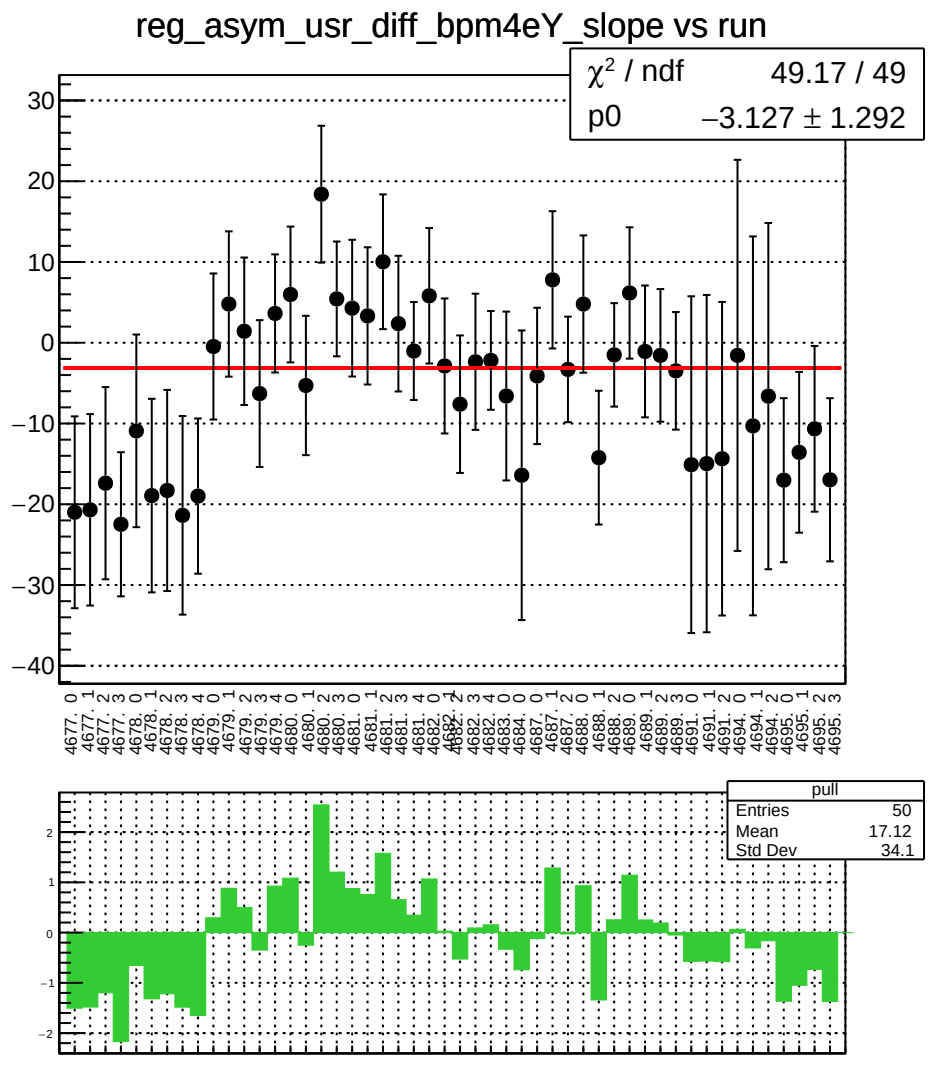

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 654.1 / 49
p0 −7.176 ± 0.8962
pull
Entries 50
Mean 36.39
Std Dev 21.97

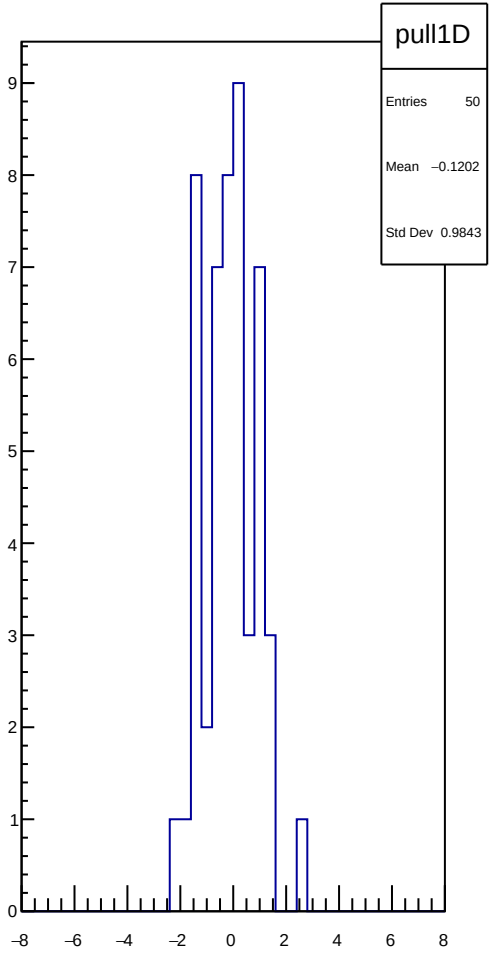

pull1D
Entries 50
Mean −0.3561
Std Dev 2.334

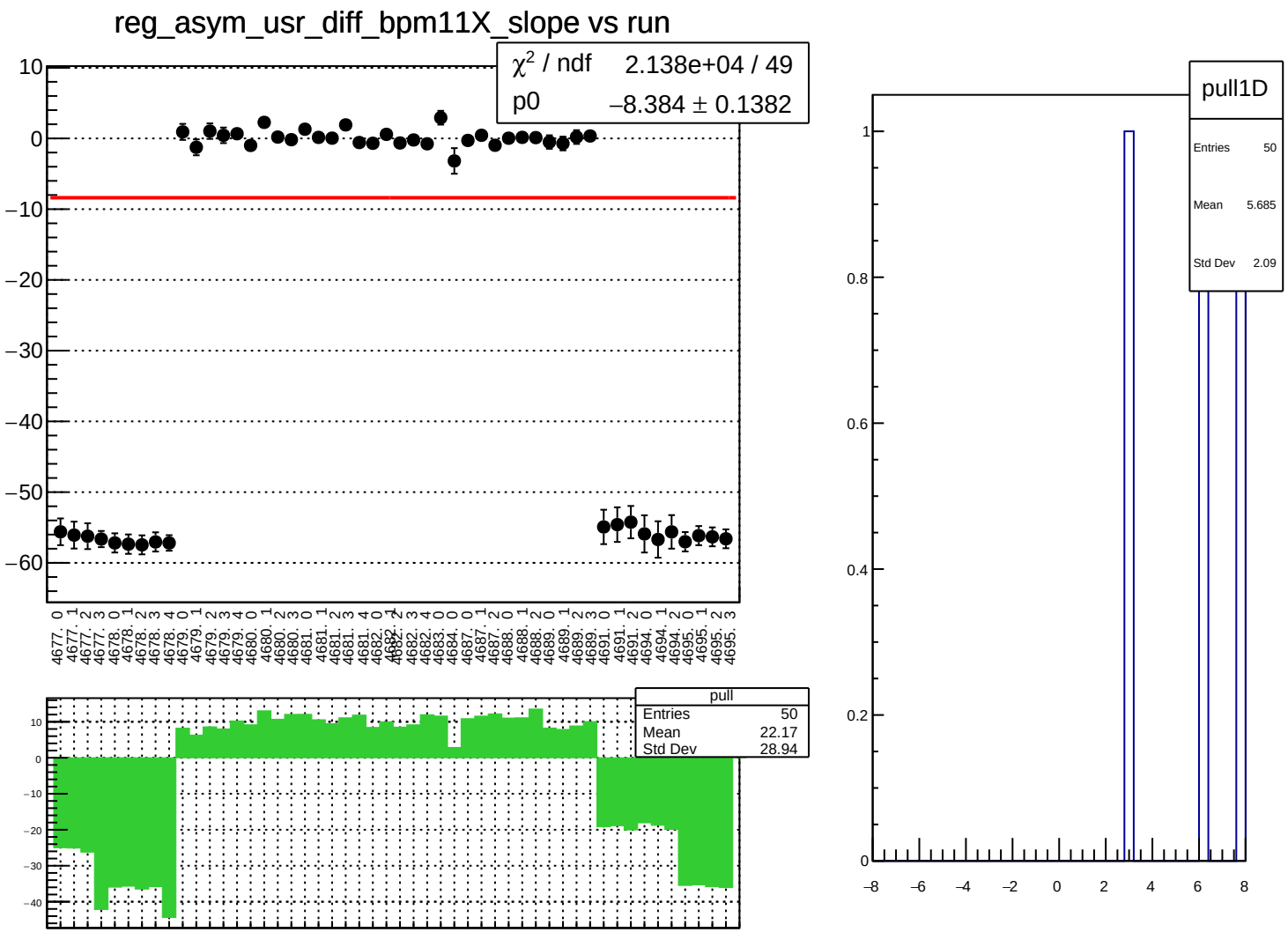

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 83.46 / 49
p0 3.537 ± 0.9771
pull
Entries 50
Mean 19.47
Std Dev 33.54

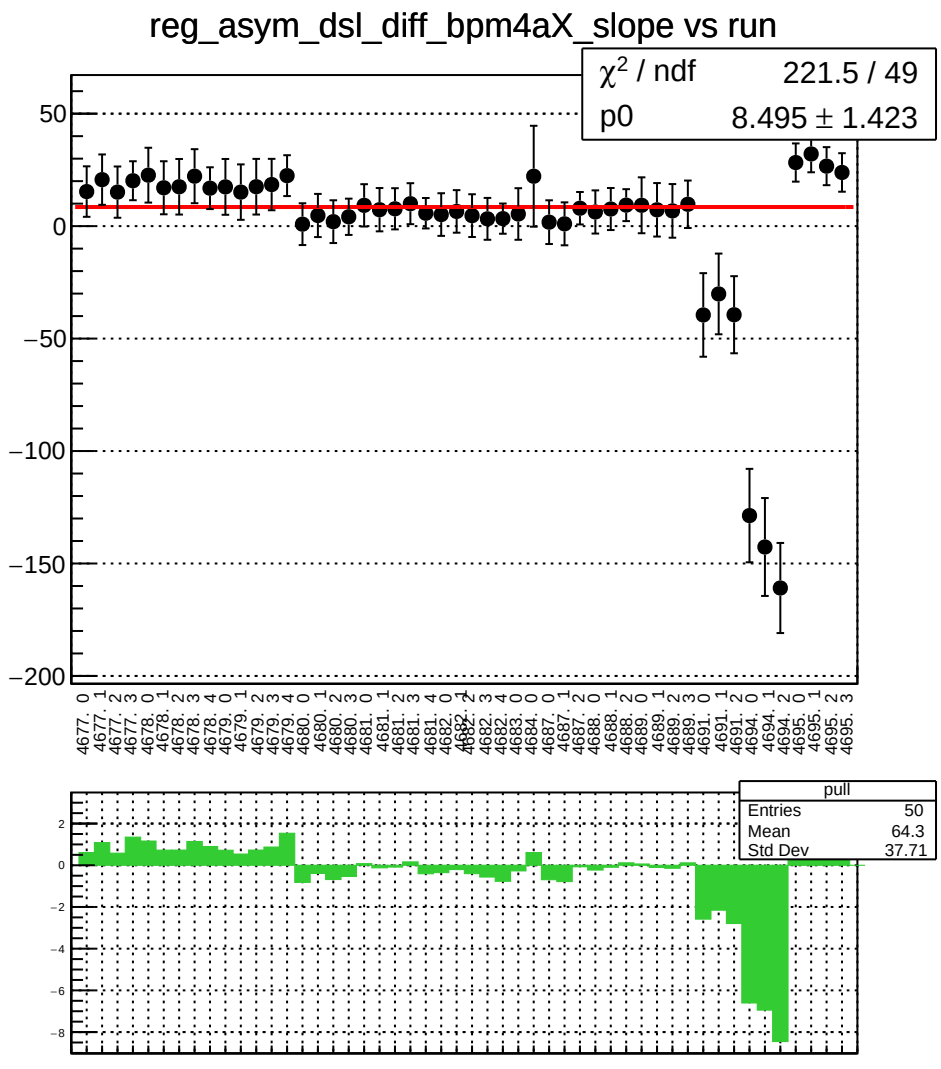

pull1D
Entries 50
Mean 0.1919
Std Dev 1.278

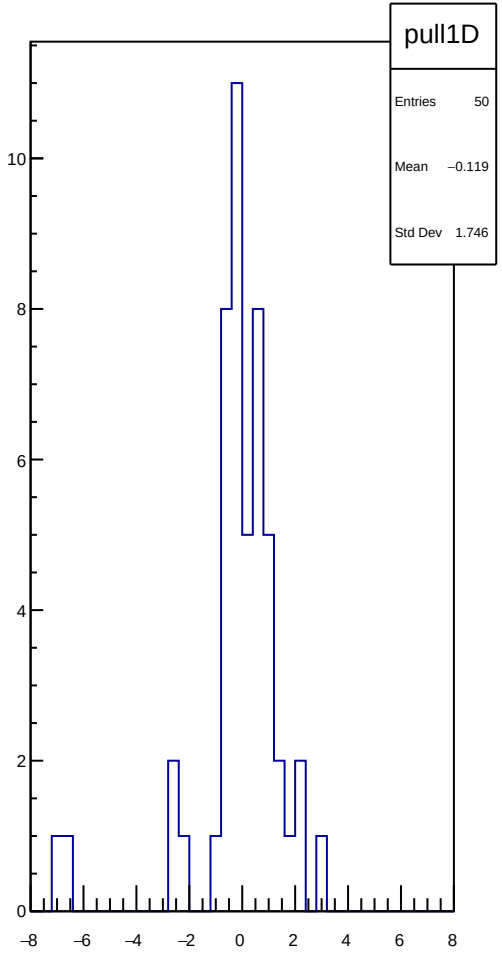

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 4960 / 49
p0 5.816 ± 0.2096
pull
Entries 50
Mean 29.41
Std Dev 26.82
pull1D
Entries 50
Mean −4.379
Std Dev 1.441

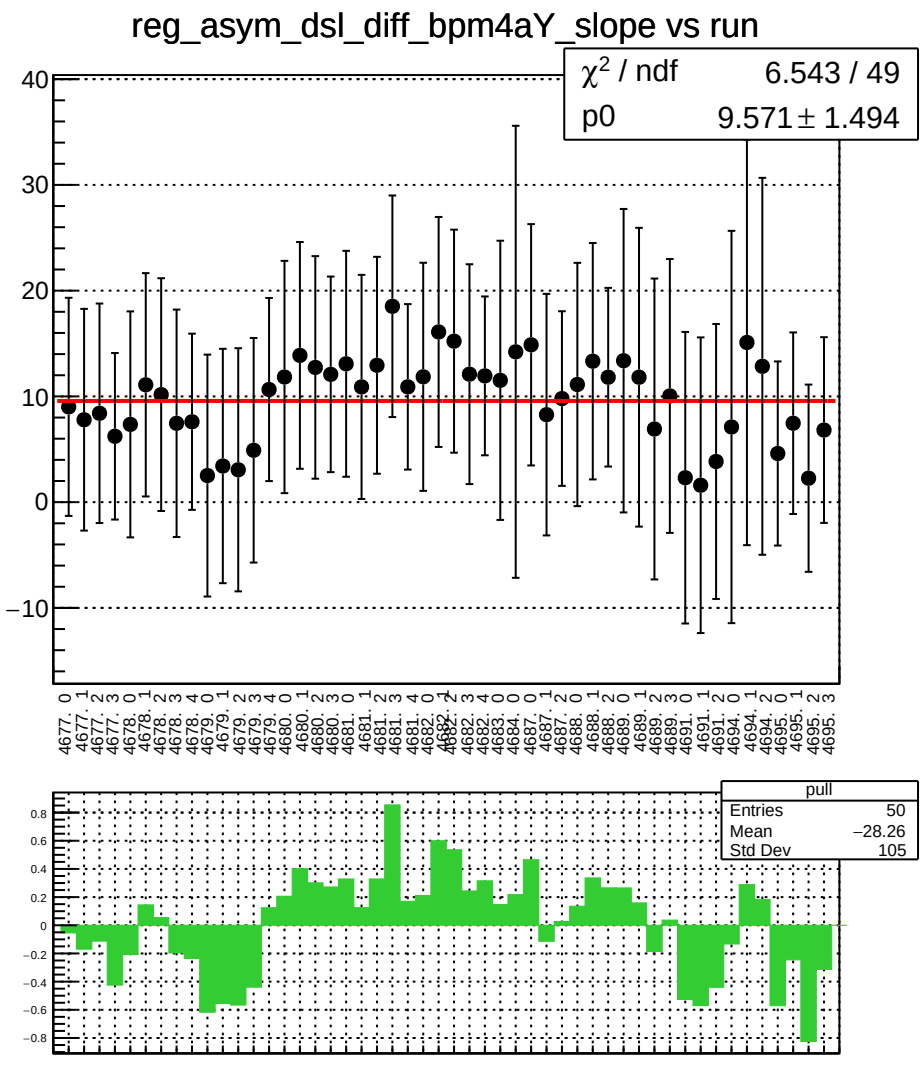

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 49.17 / 49
p0 −3.127 ± 1.292
pull
Entries 50
Mean 17.12
Std Dev 34.1

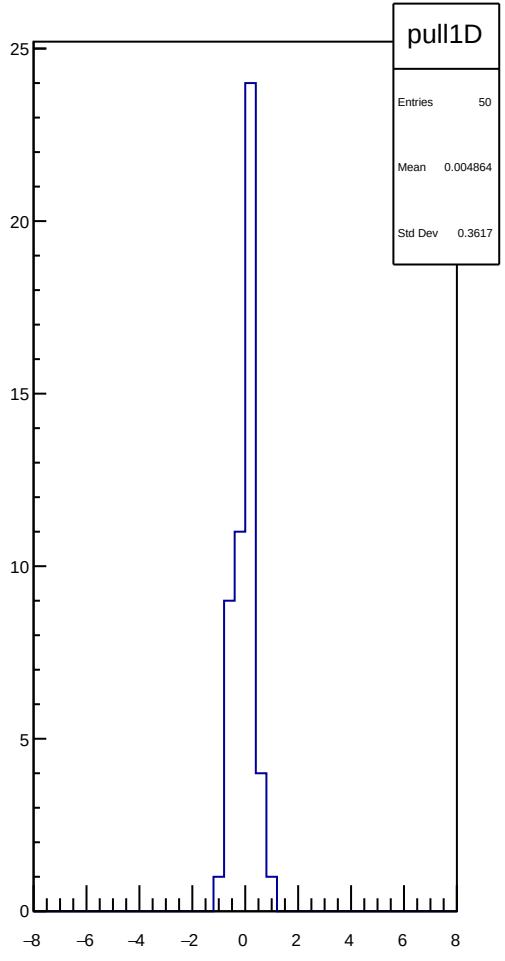

pull1D
Entries 50
Mean −0.1202
Std Dev 0.9843

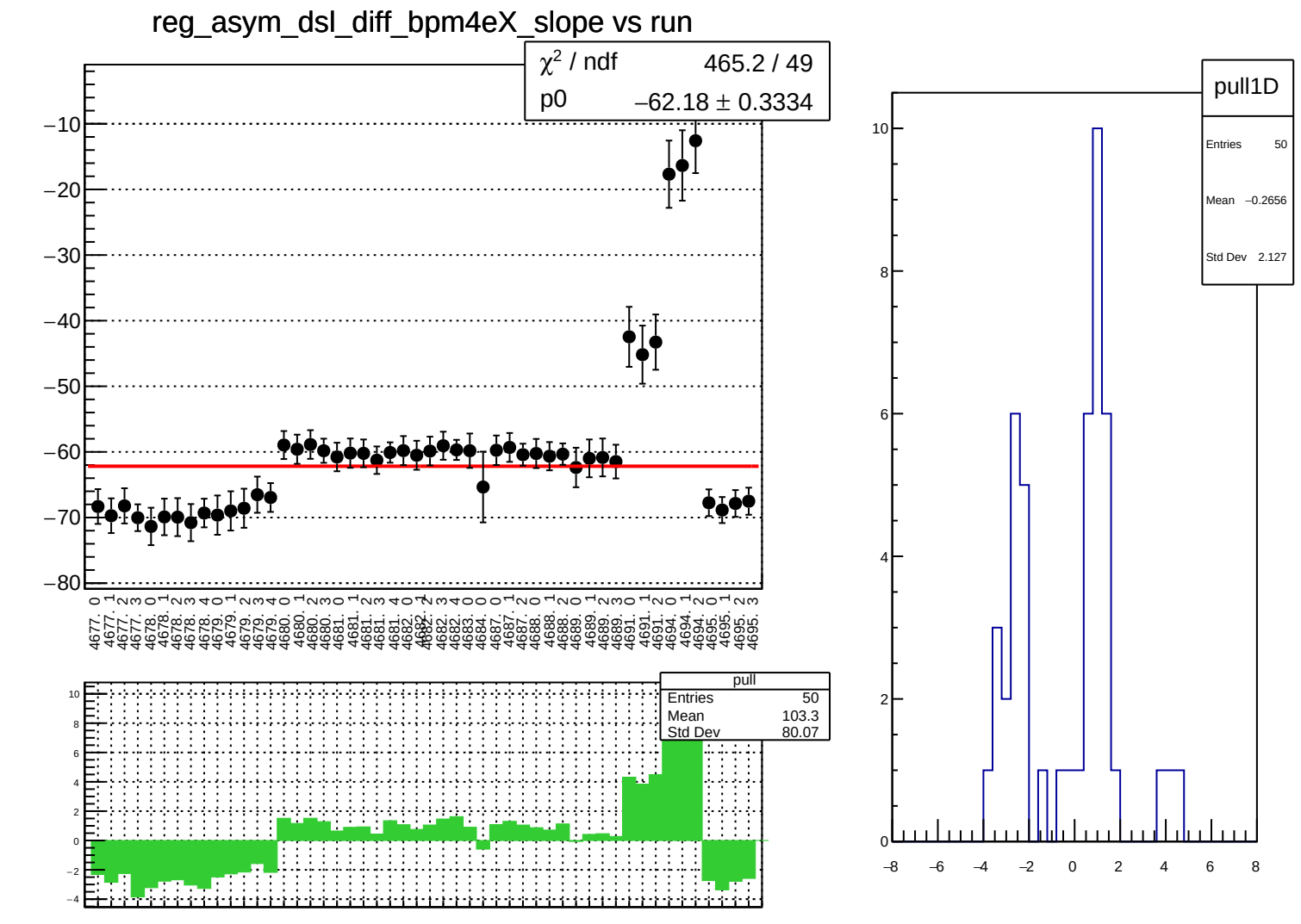

reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 2.138e+04 / 49
p0 −8.384 ± 0.1382
pull
Entries 50
Mean 22.17
Std Dev 28.94
pull1D
Entries 50
Mean 5.685
Std Dev 2.09

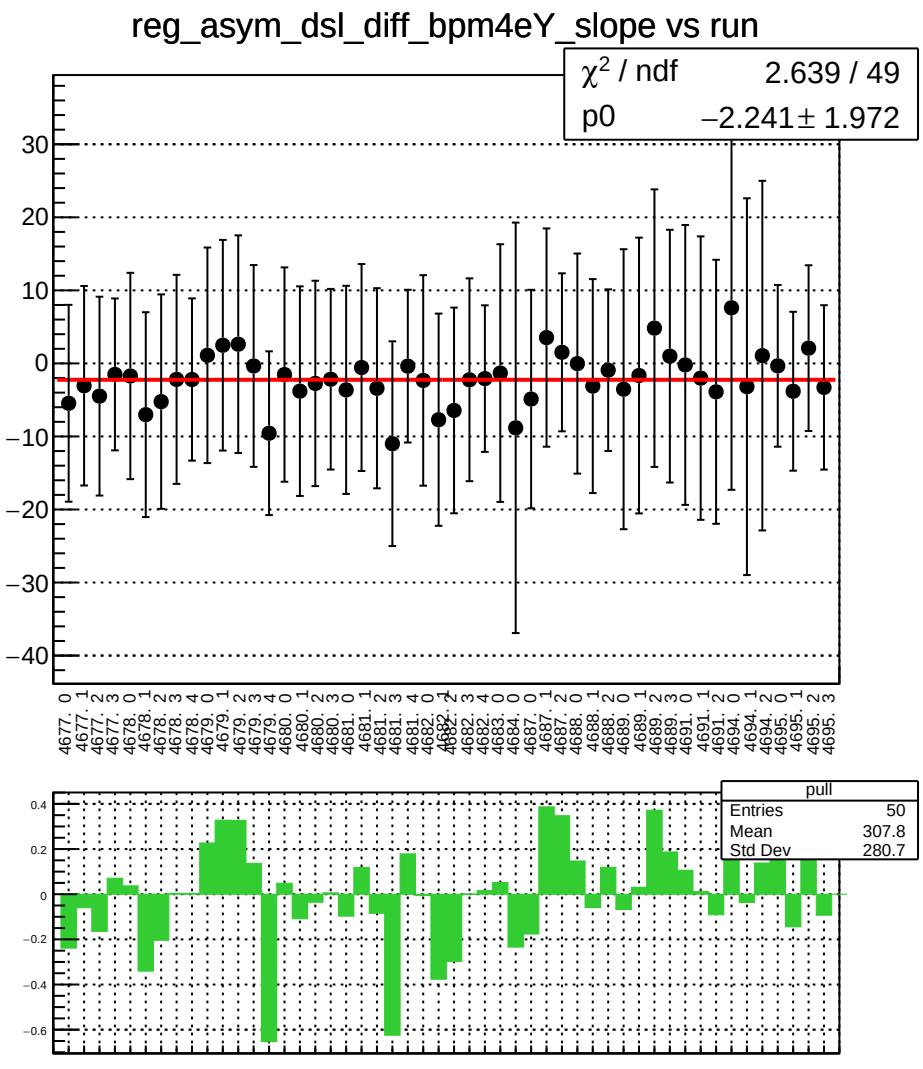

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 221.5 / 49
p0 8.495 ± 1.423
pull
Entries 50
Mean 64.3
Std Dev 37.71

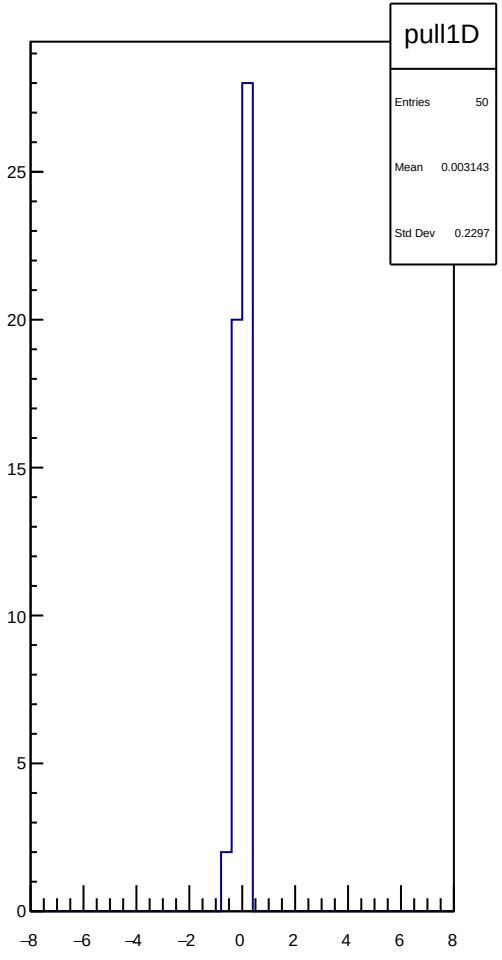

pull1D
Entries 50
Mean −0.119
Std Dev 1.746

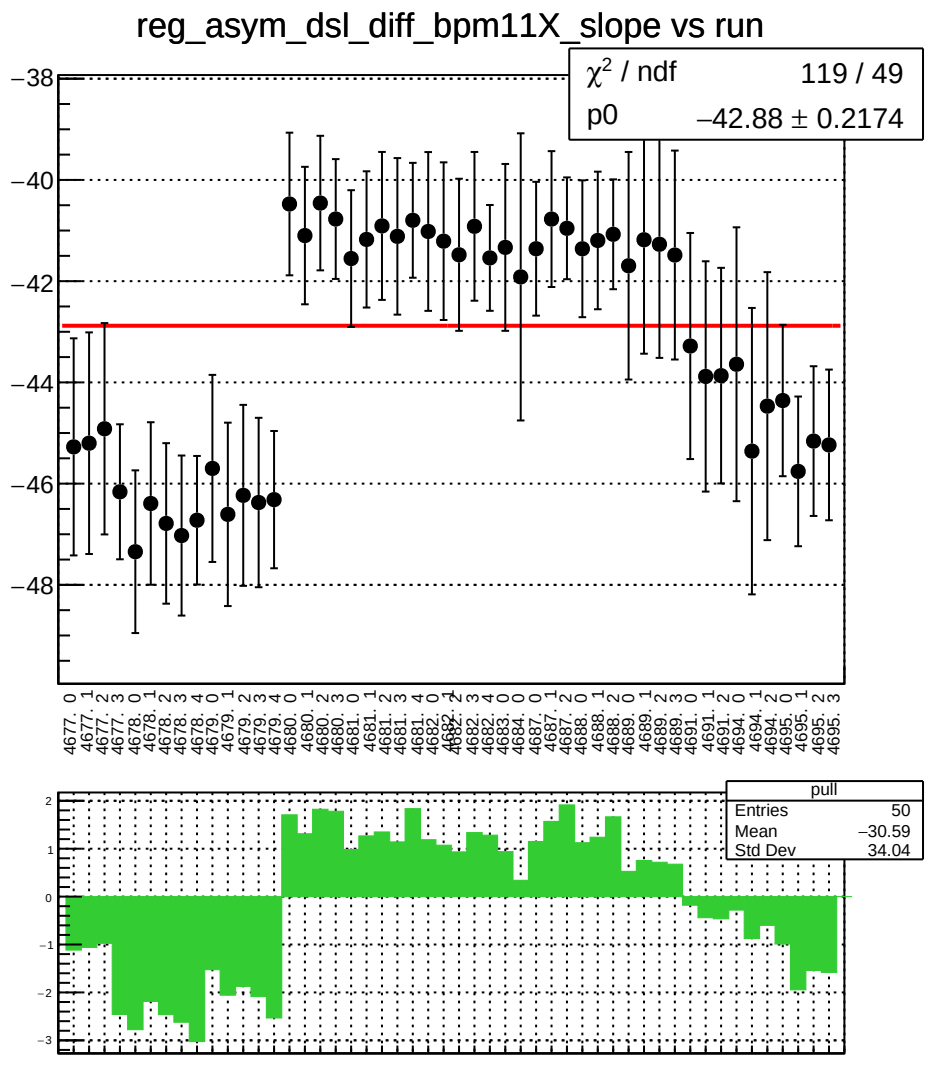

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 6.543 / 49
p0 9.571 ± 1.494
pull
Entries 50
Mean −28.26
Std Dev 105

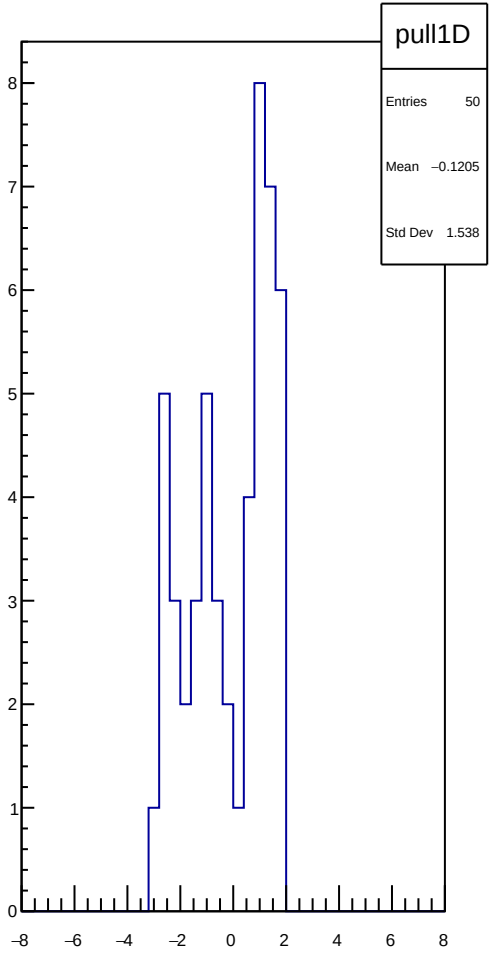

pull1D
Entries 50
Mean 0.004864
Std Dev 0.3617

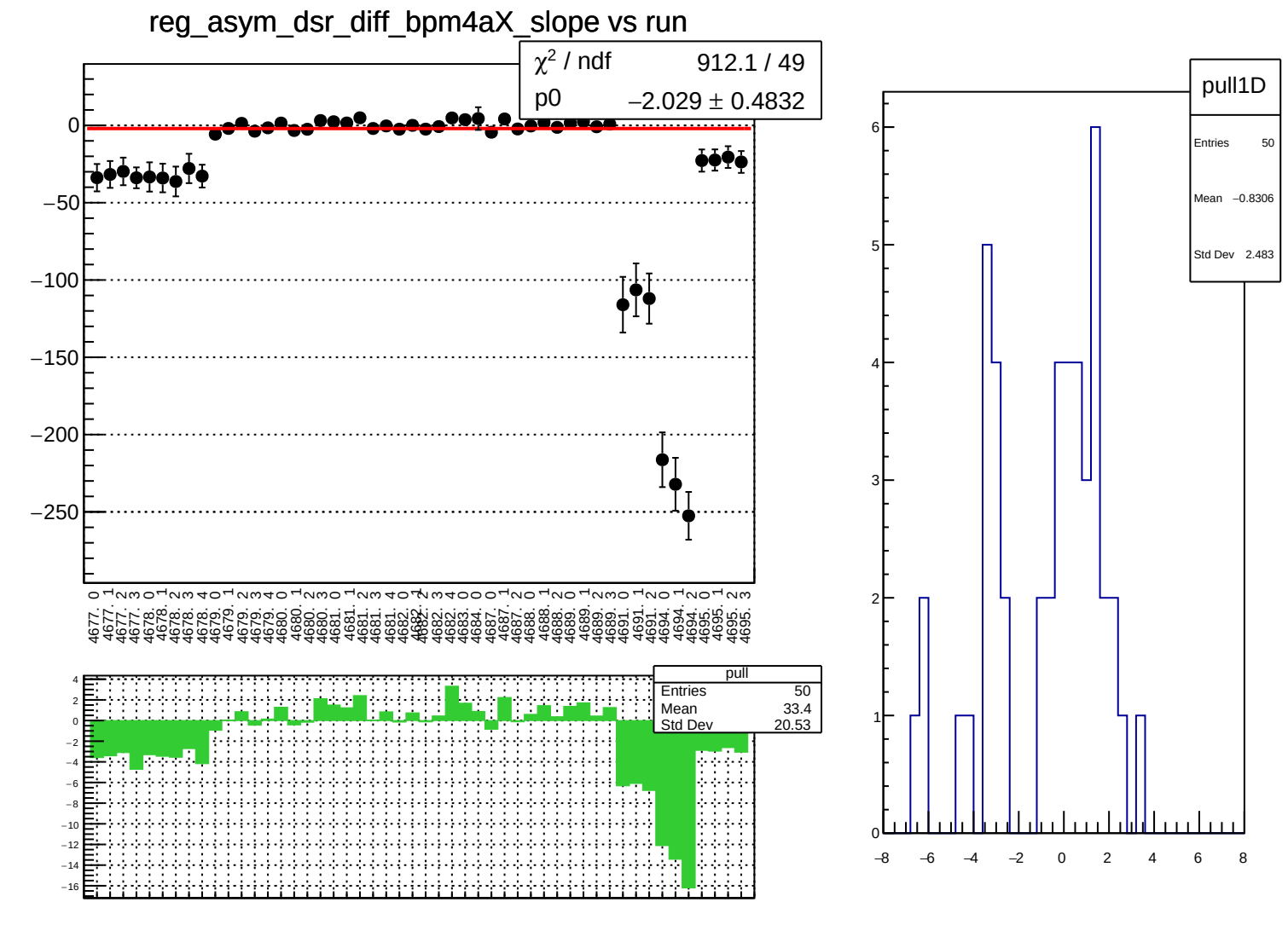

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 465.2 / 49
p0 −62.18 ± 0.3334
pull
Entries 50
Mean 103.3
Std Dev 80.07
pull1D
Entries 50
Mean −0.2656
Std Dev 2.127

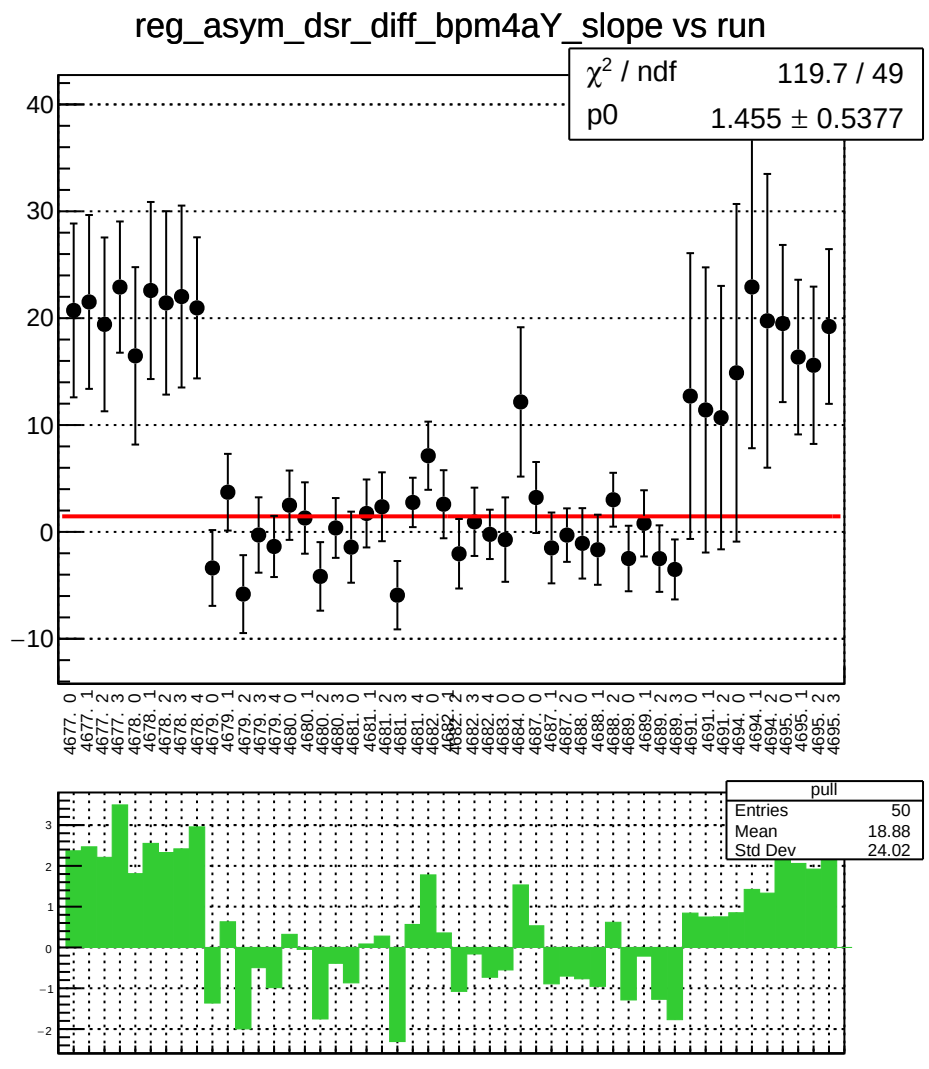

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 2.639 / 49
p0 −2.241 ± 1.972
pull
Entries 50
Mean 307.8
Std Dev 280.7

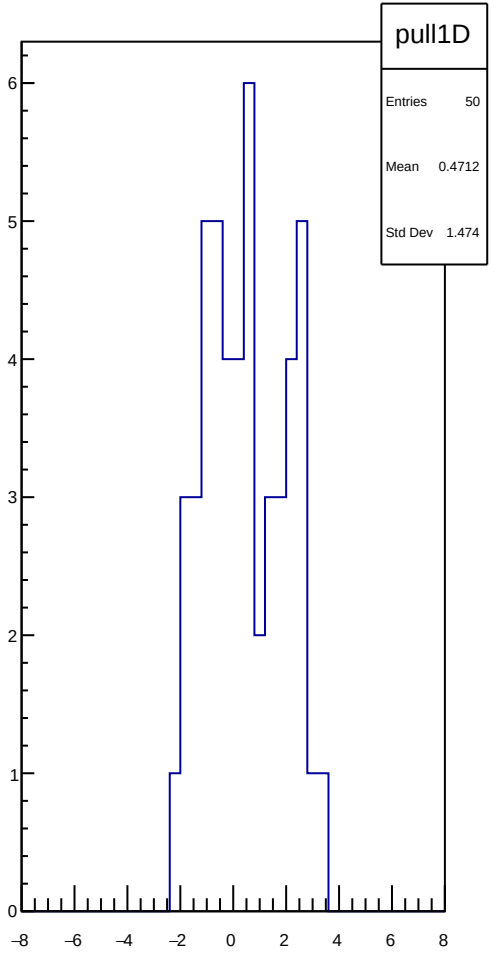

pull1D
Entries 50
Mean 0.003143
Std Dev 0.2297

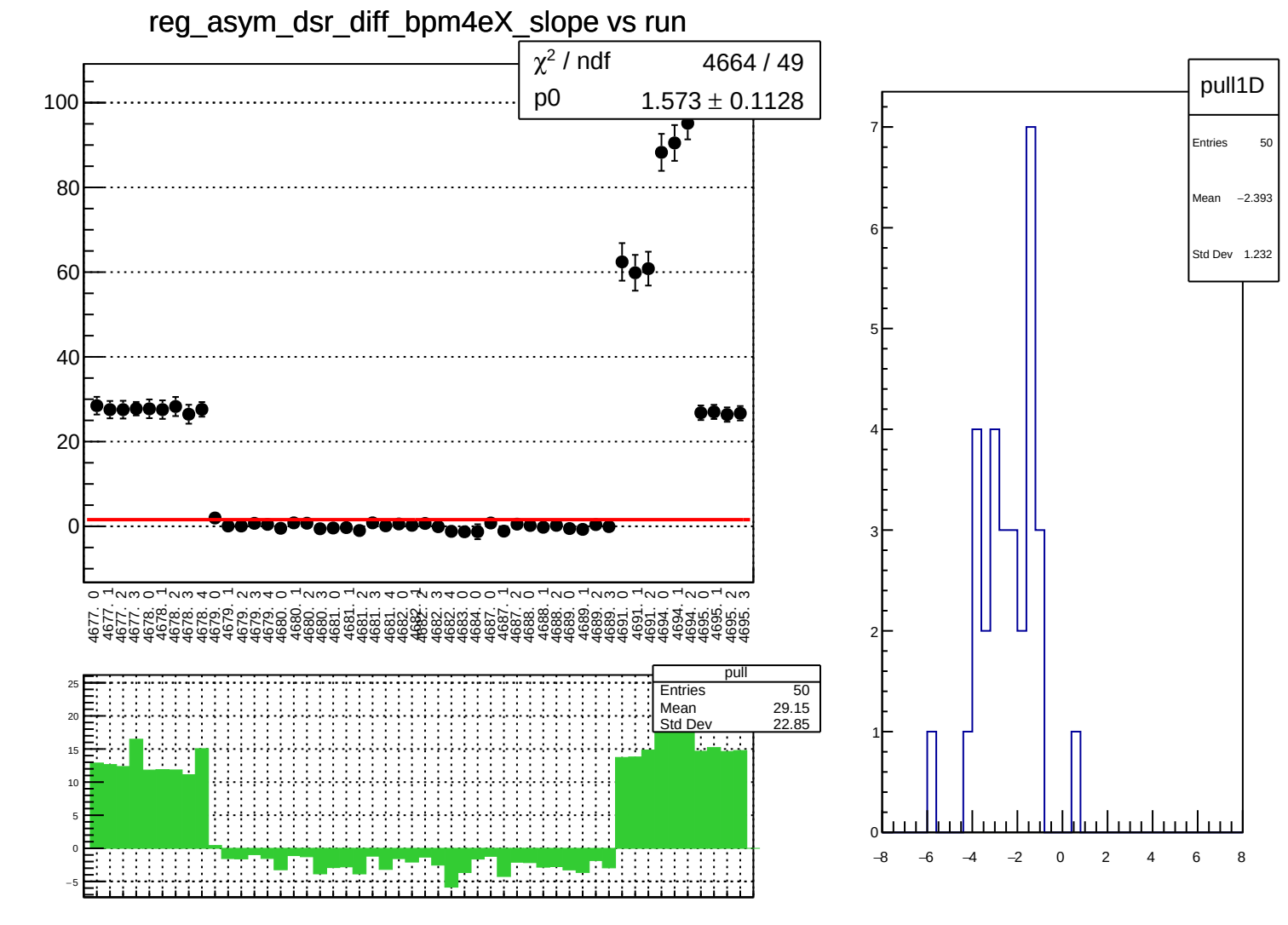

reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 119 / 49
p0 −42.88 ± 0.2174
pull
Entries 50
Mean −30.59
Std Dev 34.04

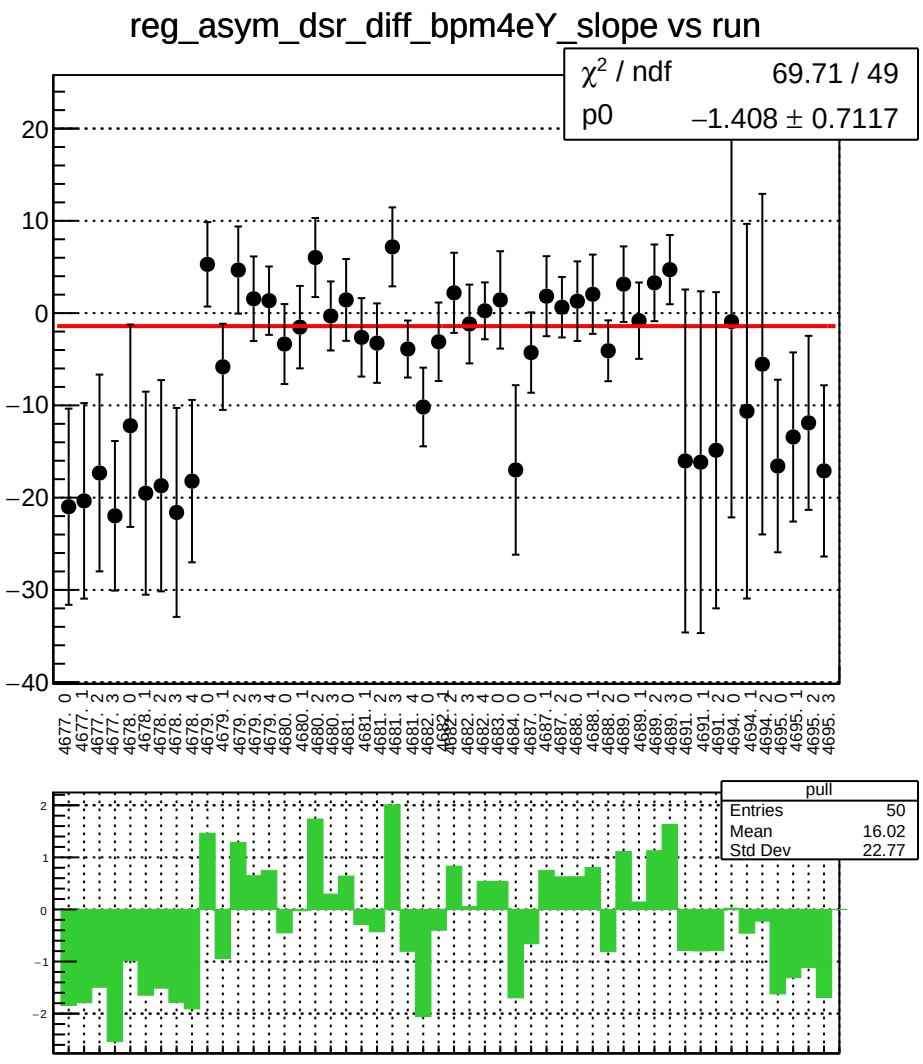

pull1D
Entries 50
Mean −0.1205
Std Dev 1.538

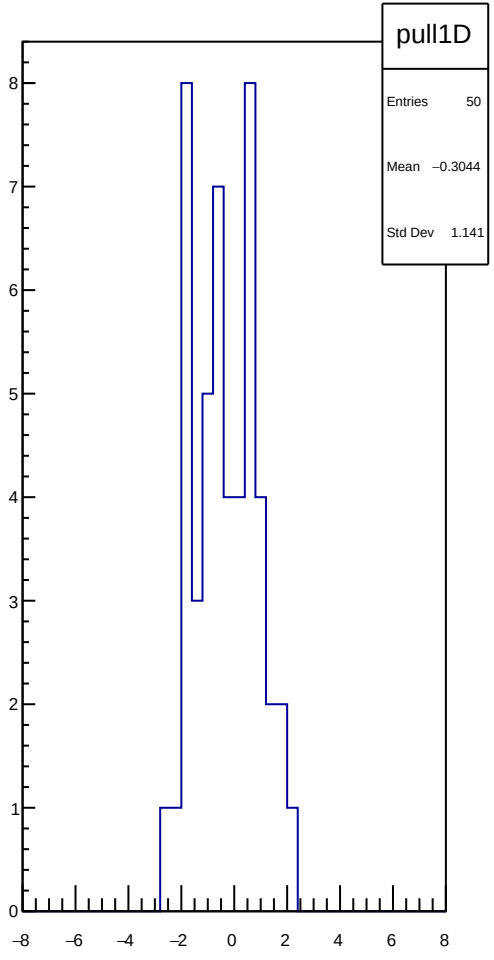

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 912.1 / 49
p0 −2.029 ± 0.4832
pull
Entries 50
Mean 33.4
Std Dev 20.53
pull1D
Entries 50
Mean −0.8306
Std Dev 2.483

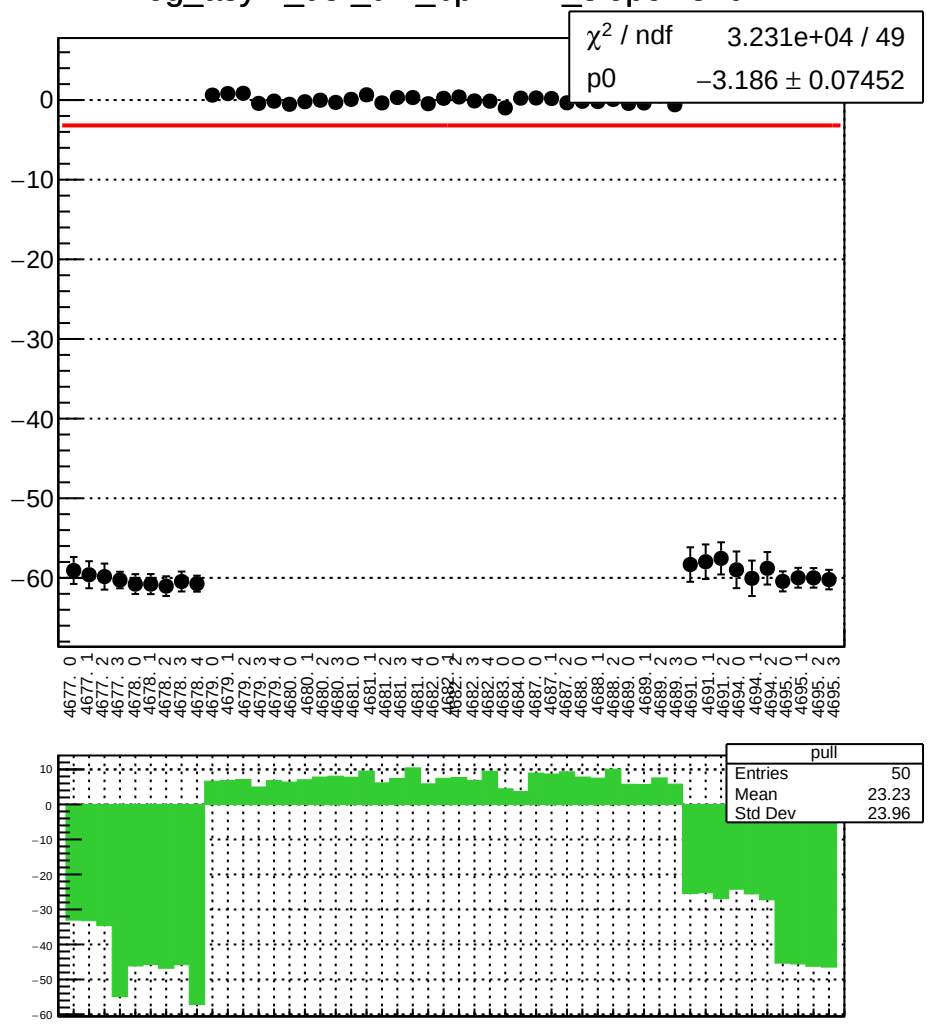

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 119.7 / 49
p0 1.455 ± 0.5377
pull
Entries 50
Mean 18.88
Std Dev 24.02

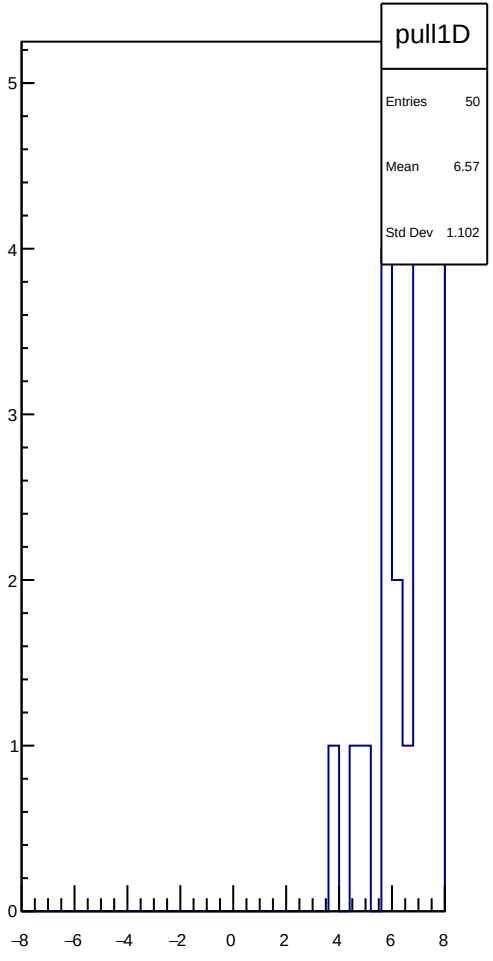

pull1D
Entries 50
Mean 0.4712
Std Dev 1.474

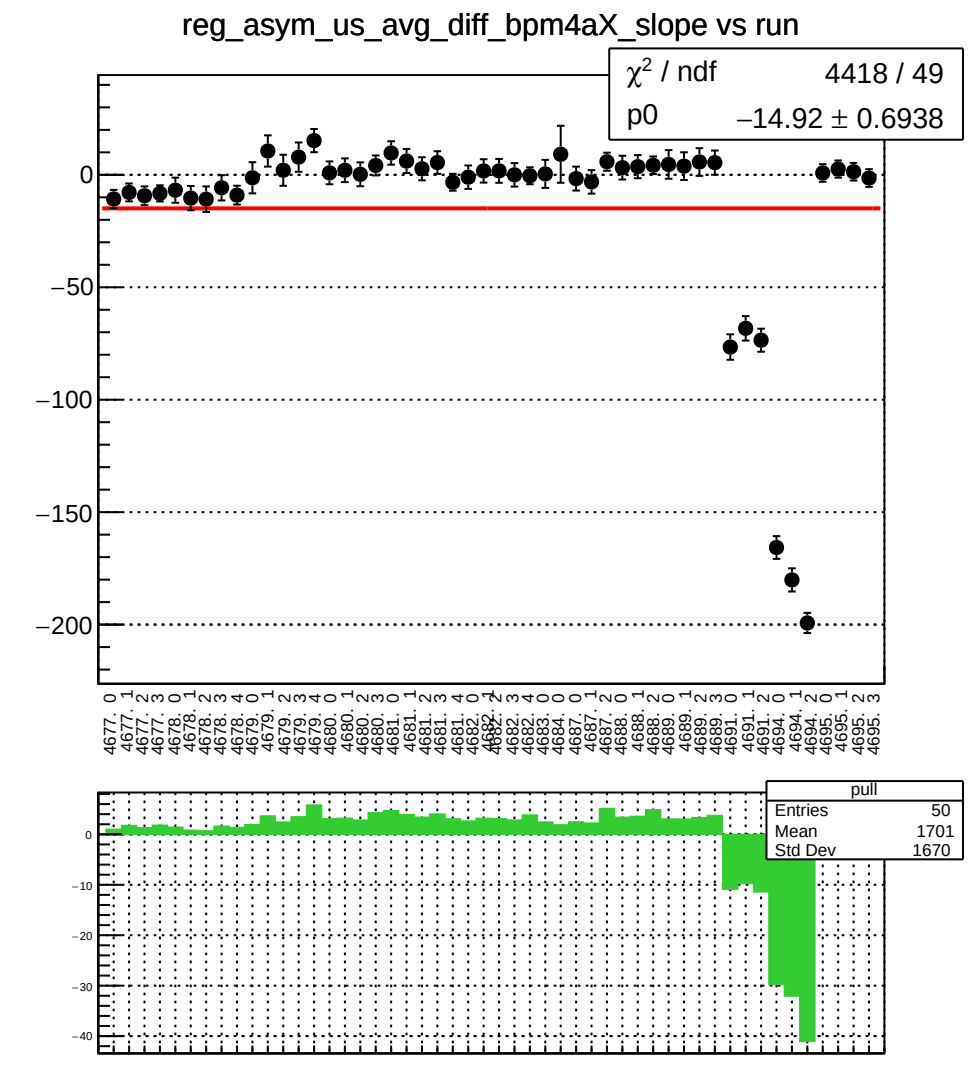

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 4664 / 49
p0 1.573 ± 0.1128
pull
Entries 50
Mean 29.15
Std Dev 22.85
pull1D
Entries 50
Mean −2.393
Std Dev 1.232

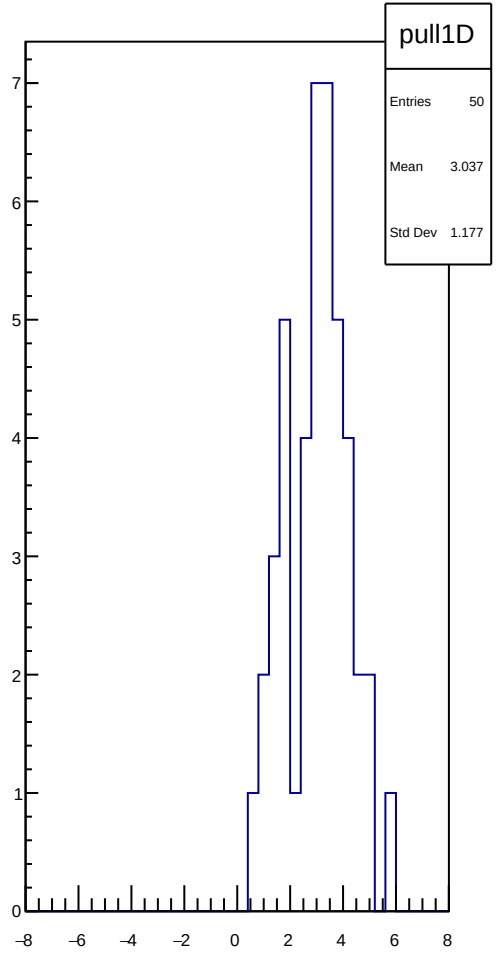

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 69.71 / 49
p0 −1.408 ± 0.7117
pull
Entries 50
Mean 16.02
Std Dev 22.77

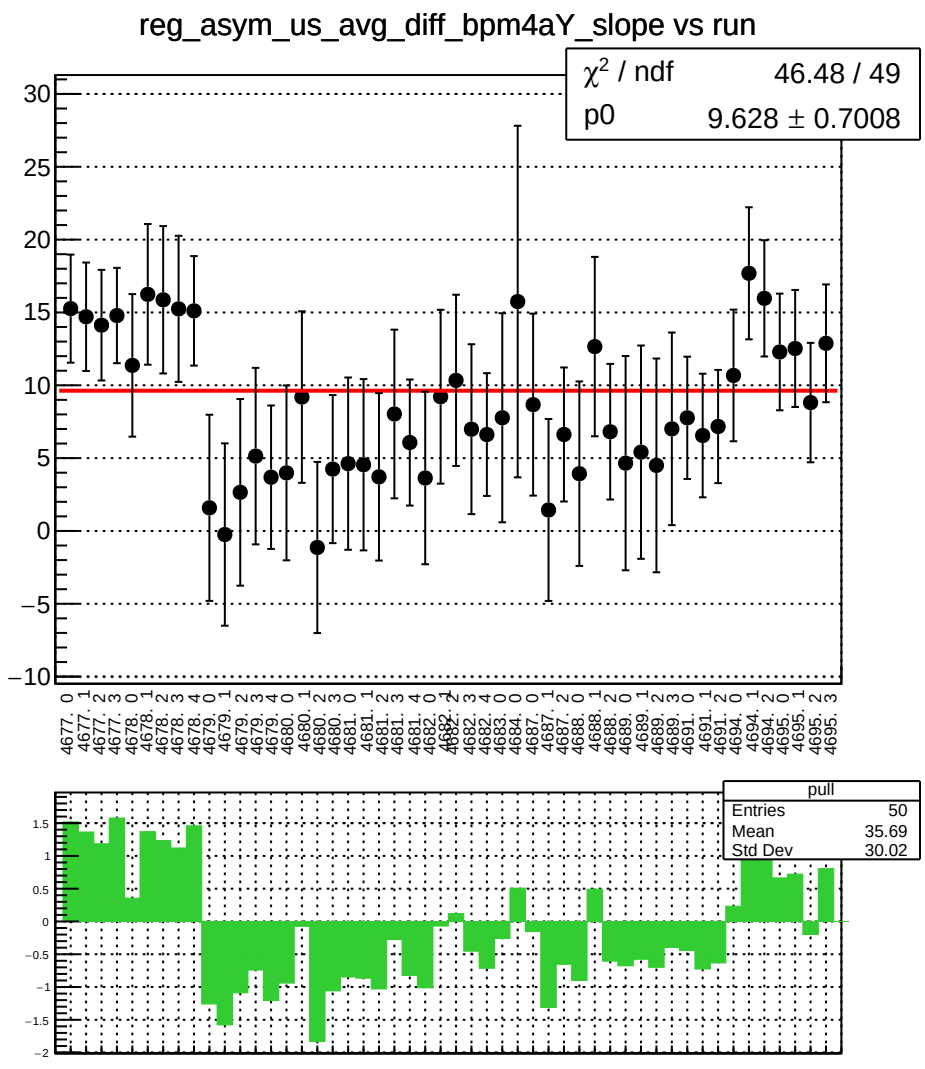

pull1D
Entries 50
Mean −0.3044
Std Dev 1.141

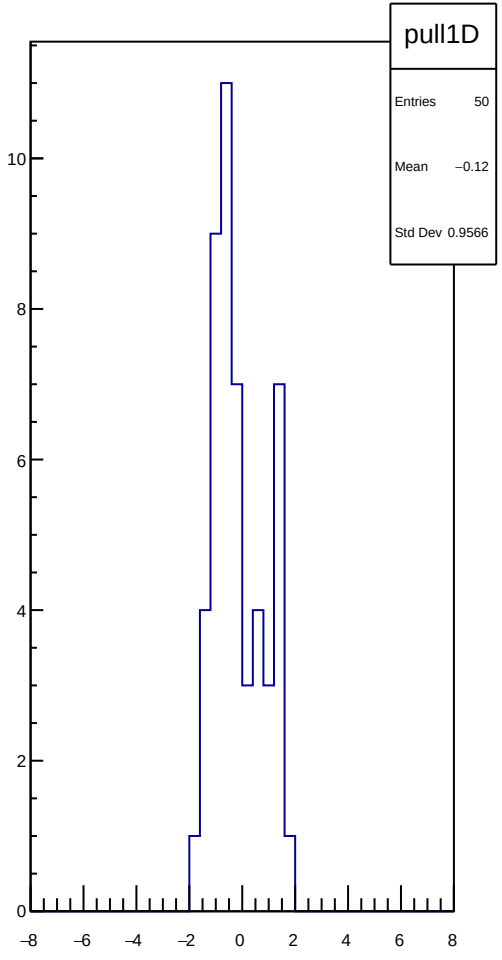

reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 3.231e+04 / 49
p0 −3.186 ± 0.07452
pull
Entries 50
Mean 23.23
Std Dev 23.96

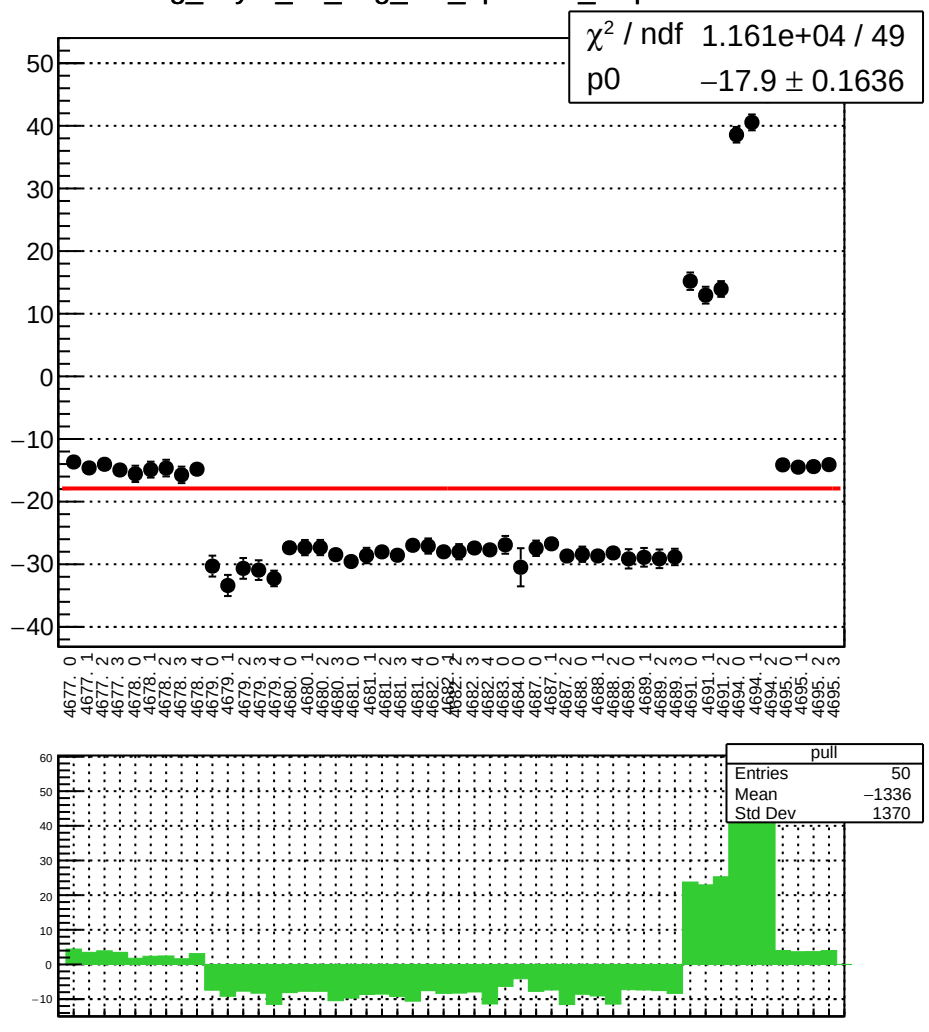

pull1D
Entries 50
Mean 6.57
Std Dev 1.102

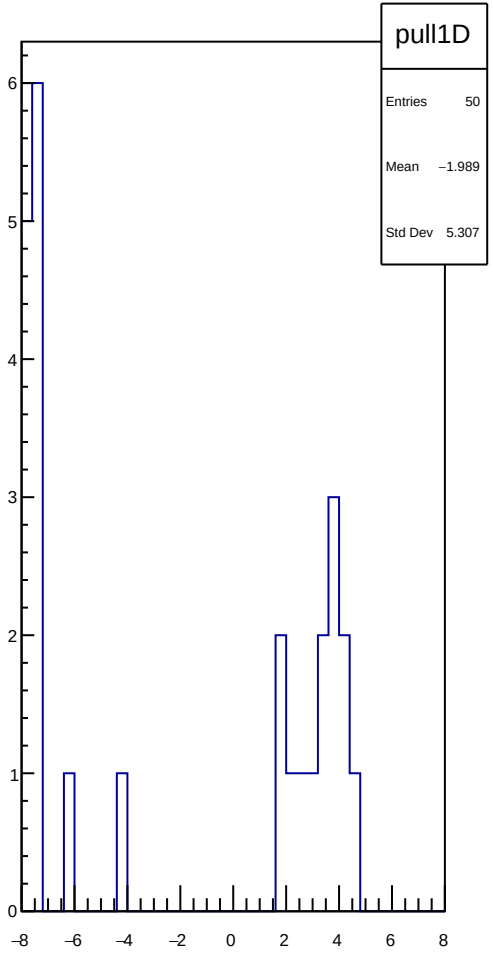

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 4418 / 49
p0 −14.92 ± 0.6938
pull
Entries 50
Mean 1701
Std Dev 1670

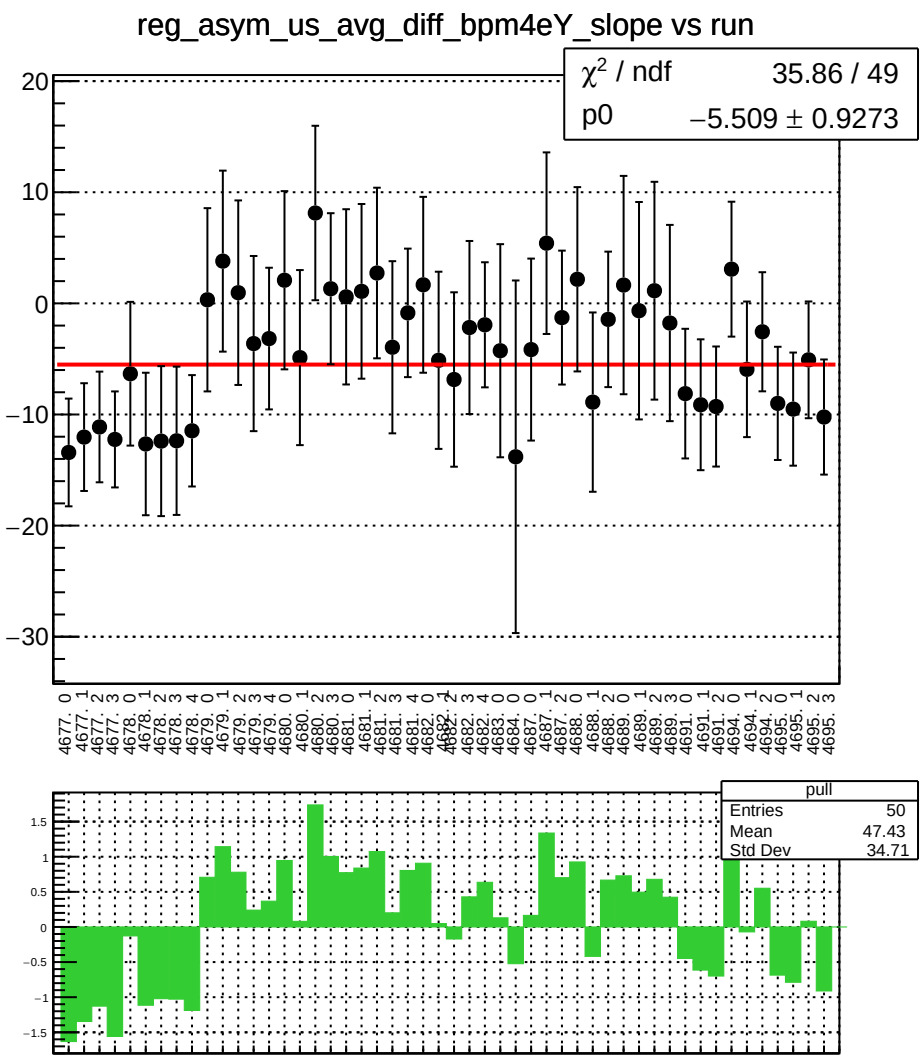

pull1D
Entries 50
Mean 3.037
Std Dev 1.177

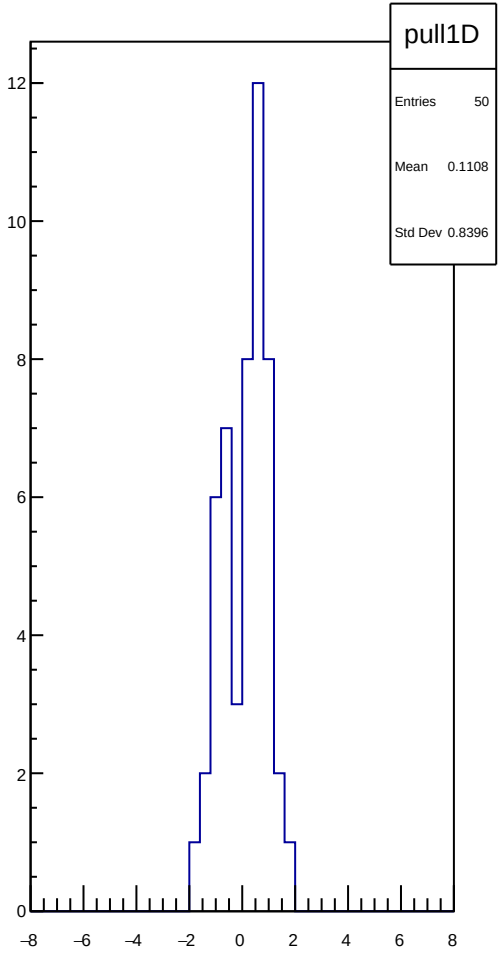

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 46.48 / 49
p0 9.628 ± 0.7008
pull
Entries 50
Mean 35.69
Std Dev 30.02

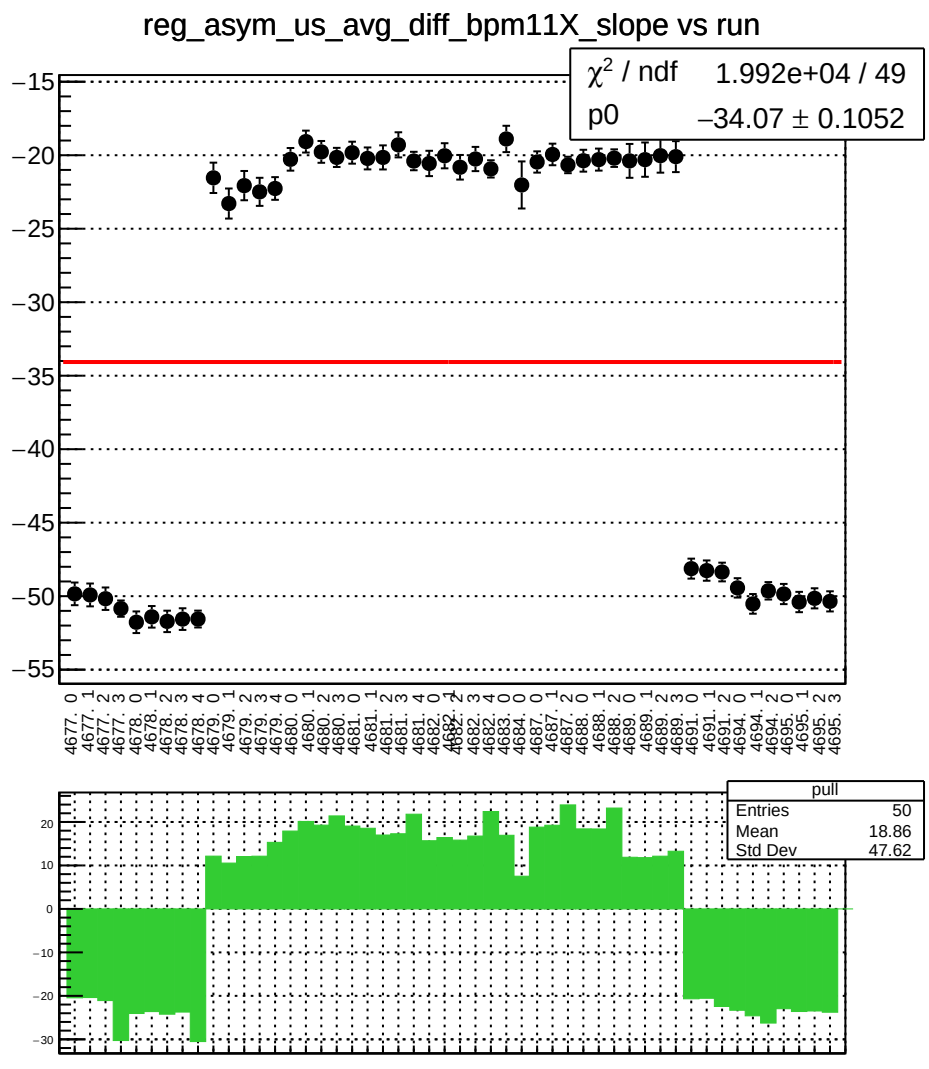

pull1D
Entries 50
Mean −0.12
Std Dev 0.9566

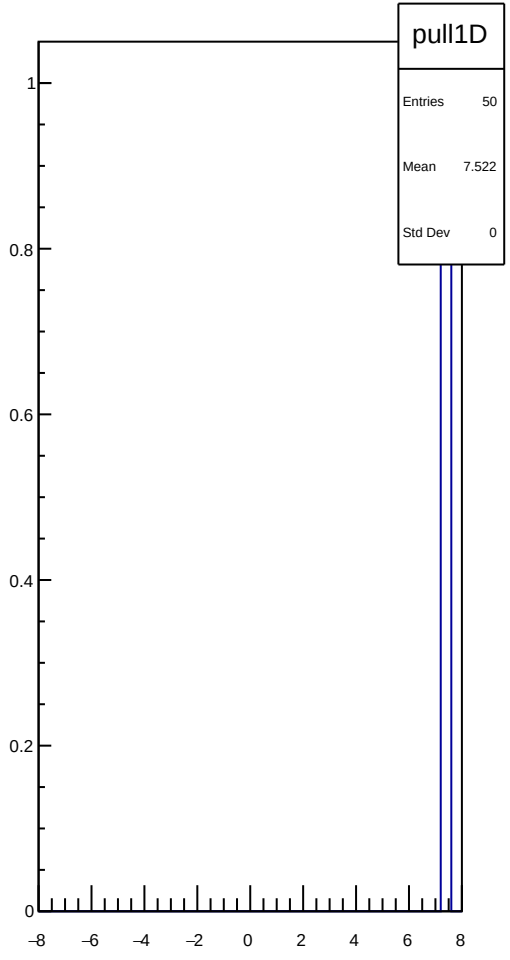

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.161e+04 / 49
p0 −17.9 ± 0.1636
pull
Entries 50
Mean −1336
Std Dev 1370

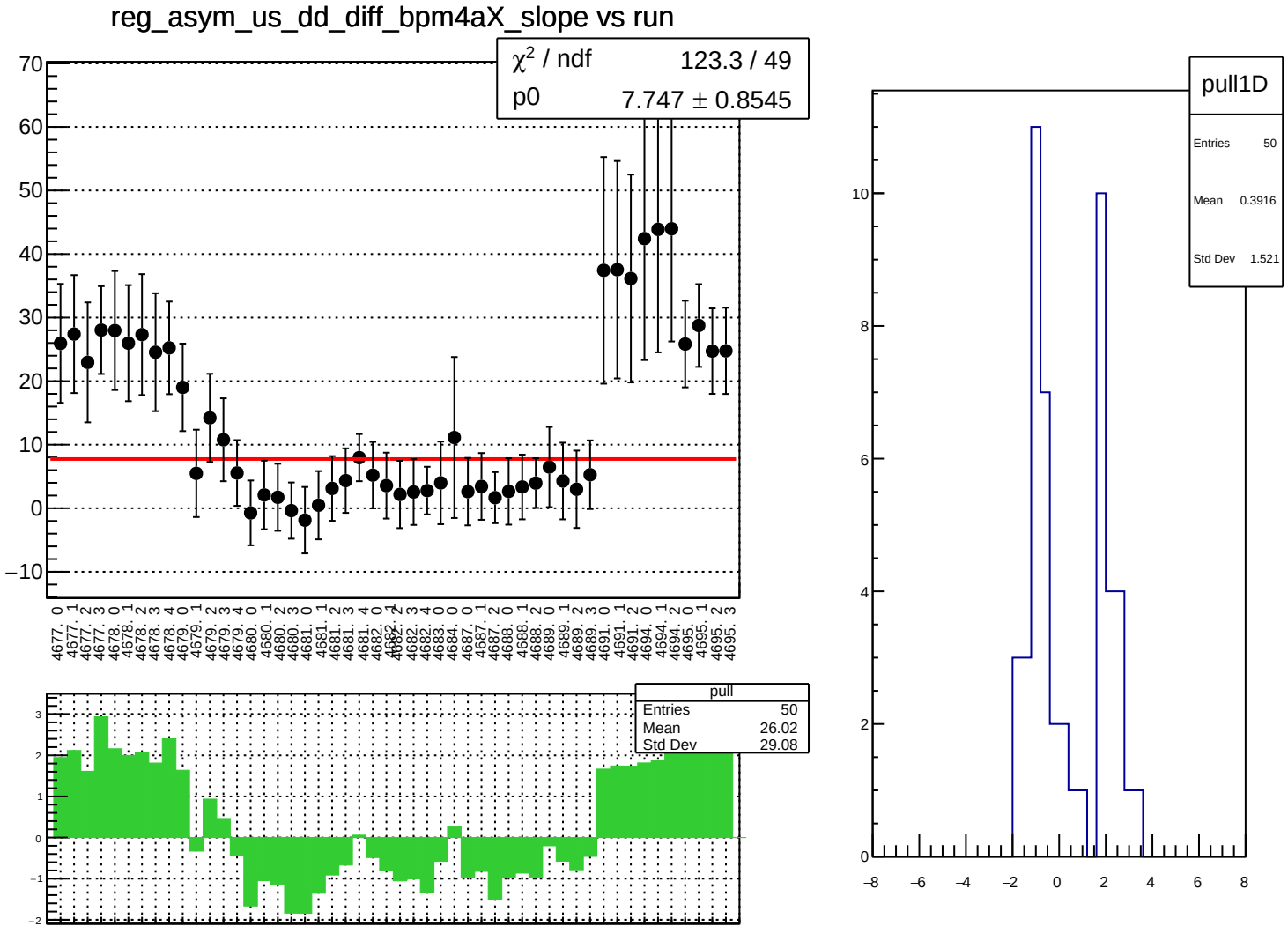

pull1D
Entries 50
Mean −1.989
Std Dev 5.307

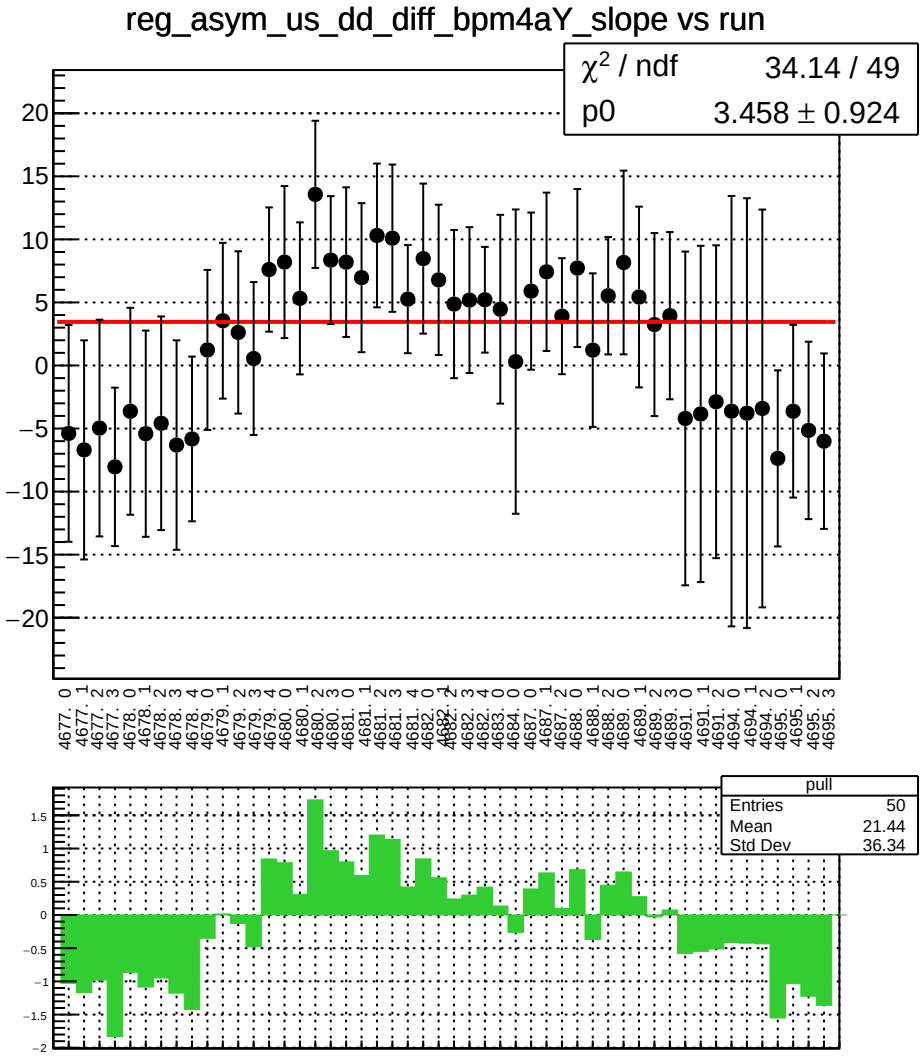

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.86 / 49
p0 −5.509 ± 0.9273
pull
Entries 50
Mean 47.43
Std Dev 34.71

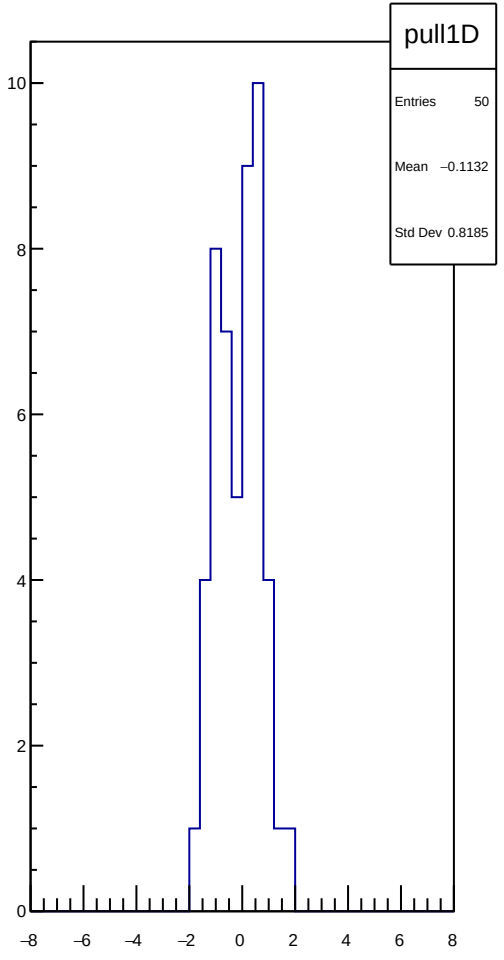

pull1D
Entries 50
Mean 0.1108
Std Dev 0.8396

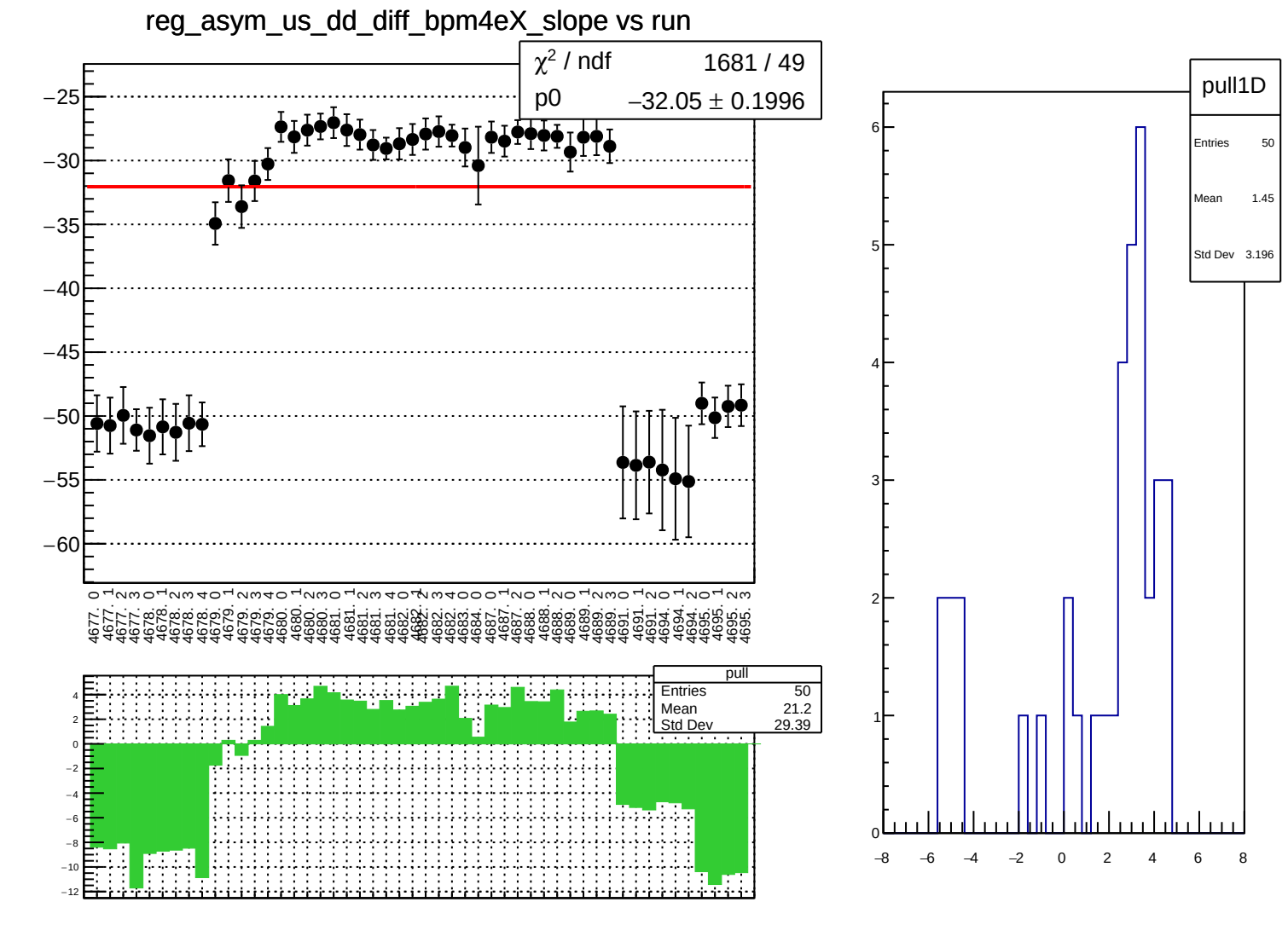

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 1.992e+04 / 49
p0 −34.07 ± 0.1052
pull
Entries 50
Mean 18.86
Std Dev 47.62

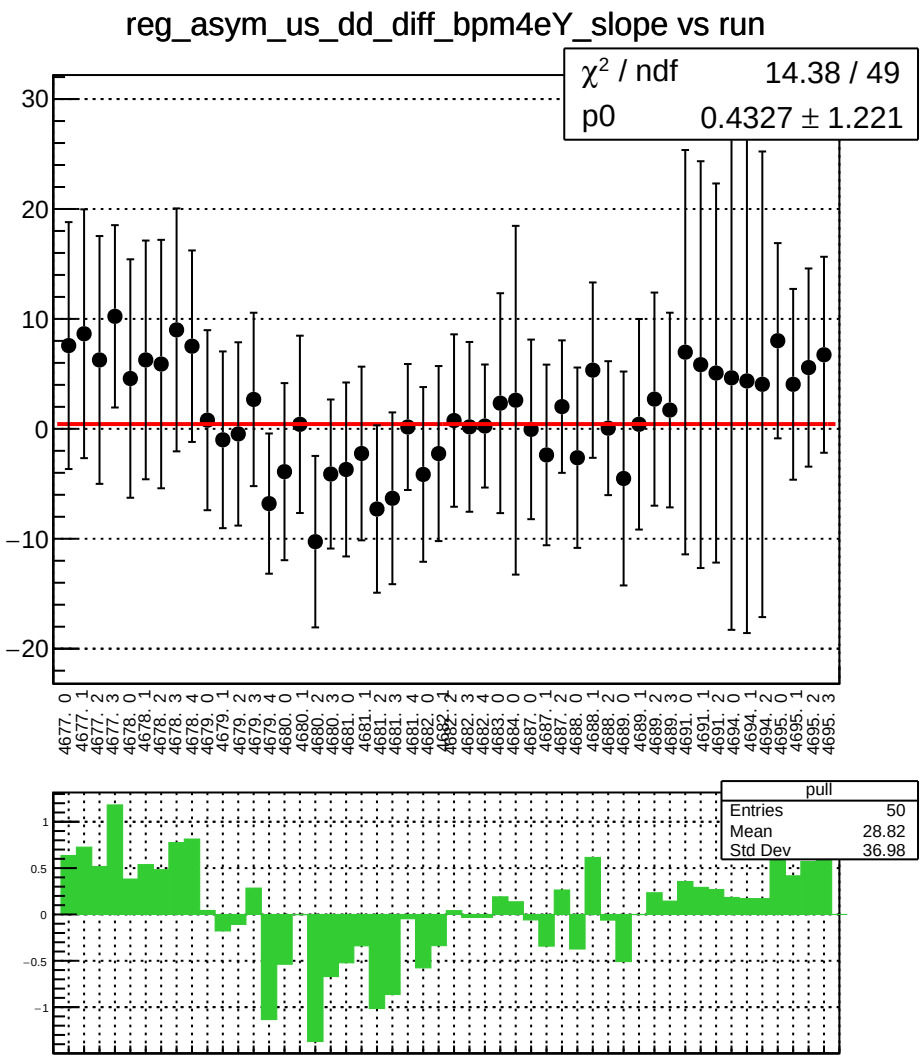

pull1D
Entries 50
Mean 7.522
Std Dev 0

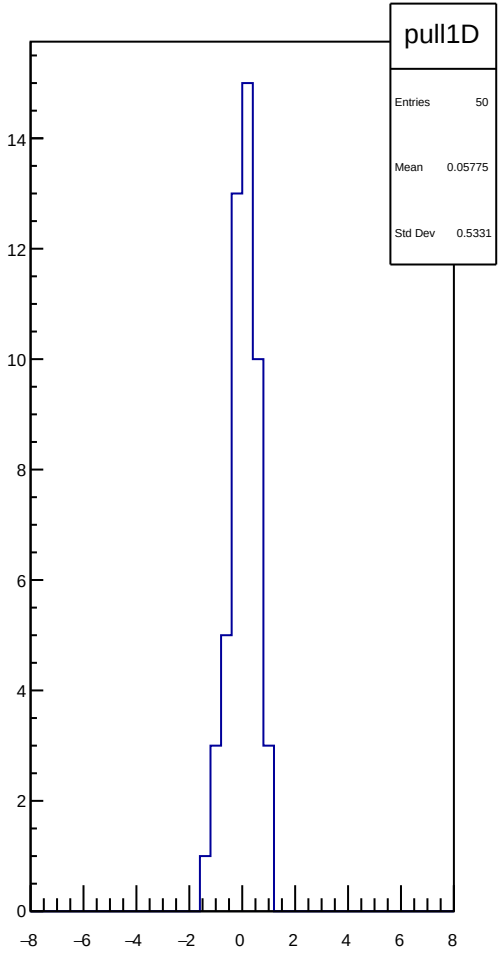

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 123.3 / 49
p0 7.747 ± 0.8545
pull
Entries 50
Mean 26.02
Std Dev 29.08
pull1D
Entries 50
Mean 0.3916
Std Dev 1.521

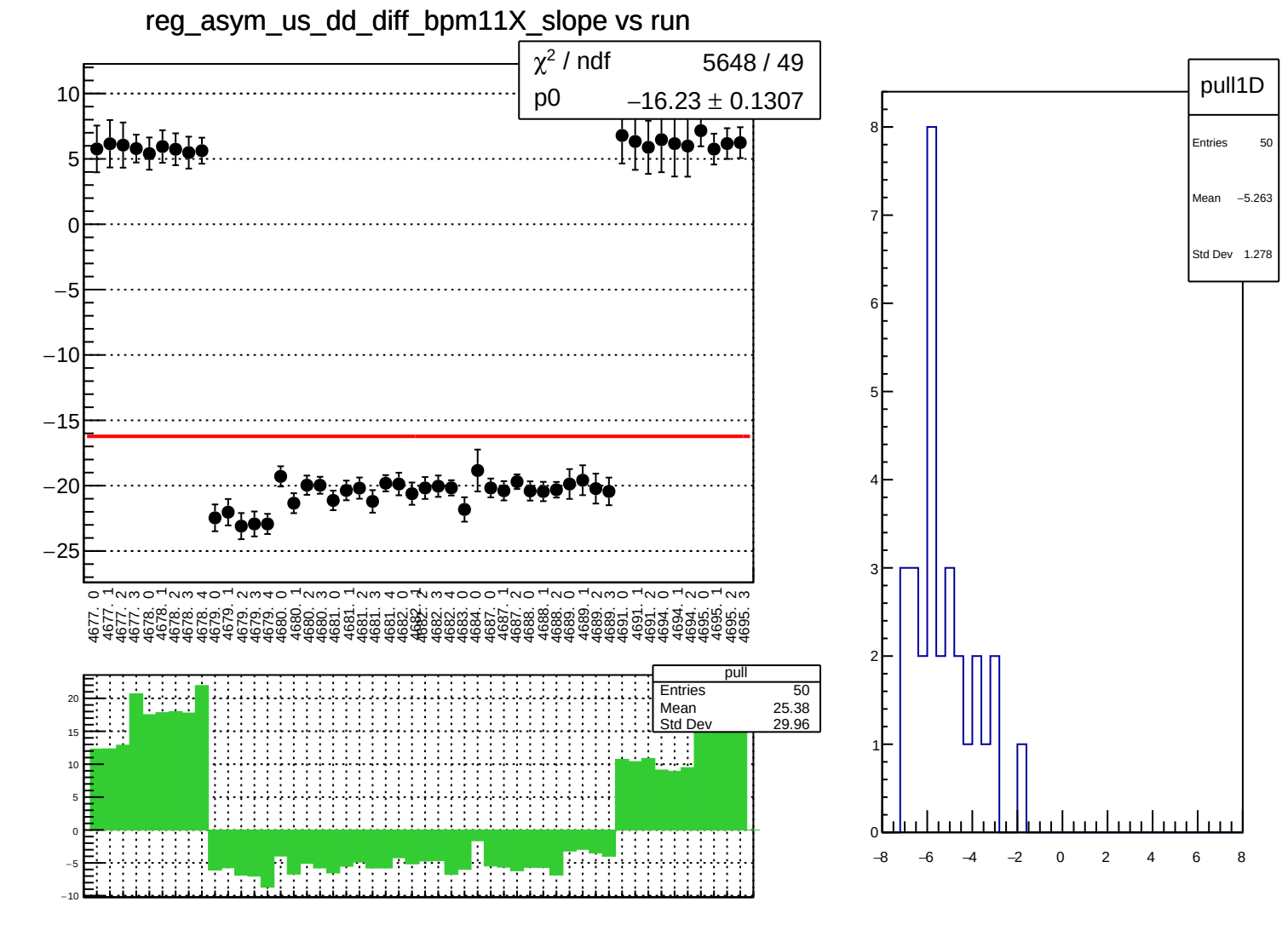

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 34.14 / 49
p0 3.458 ± 0.924
pull
Entries 50
Mean 21.44
Std Dev 36.34

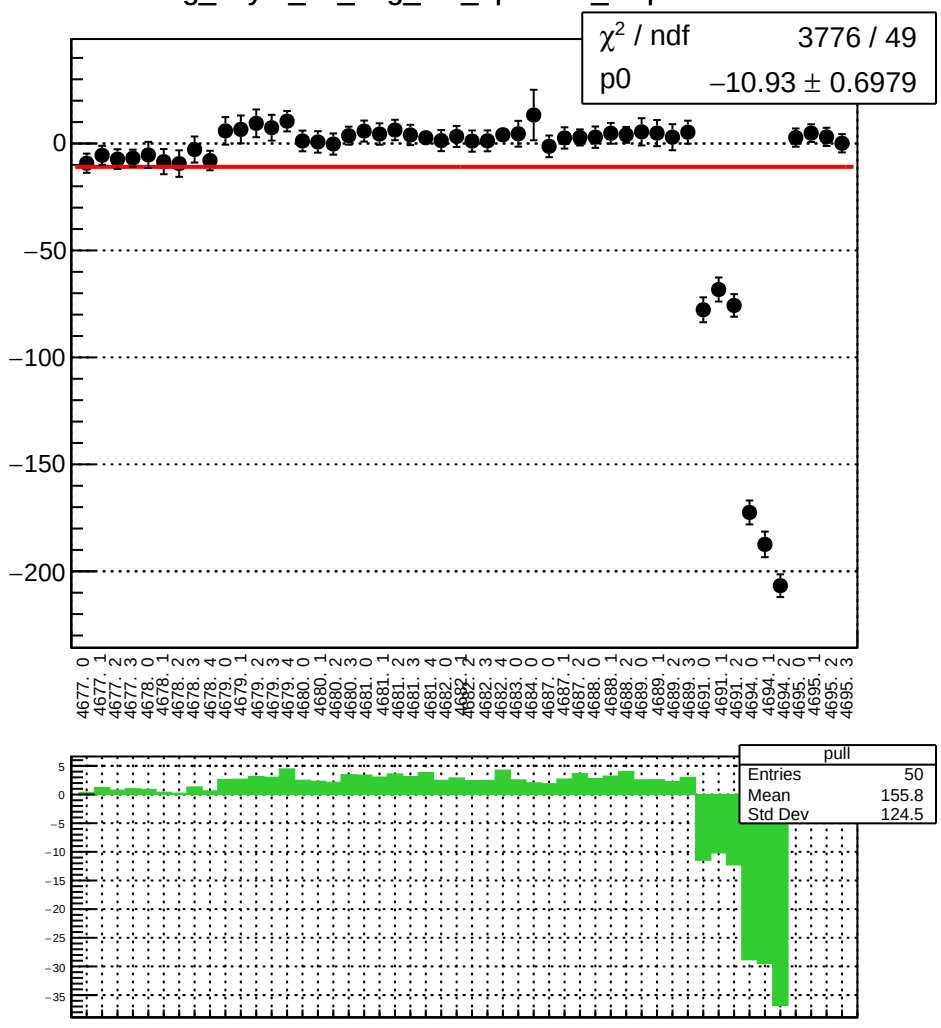

pull1D
Entries 50
Mean −0.1132
Std Dev 0.8185

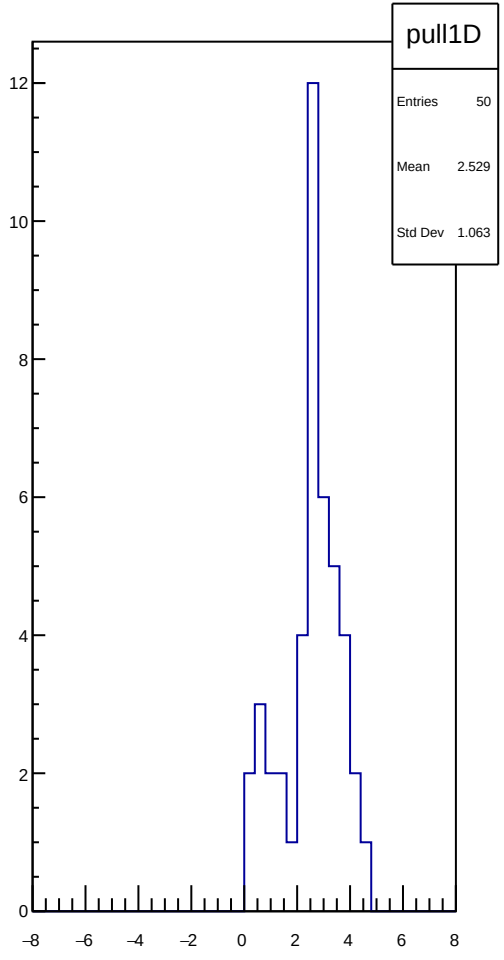

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 1681 / 49
p0 −32.05 ± 0.1996
pull
Entries 50
Mean 21.2
Std Dev 29.39
pull1D
Entries 50
Mean 1.45
Std Dev 3.196

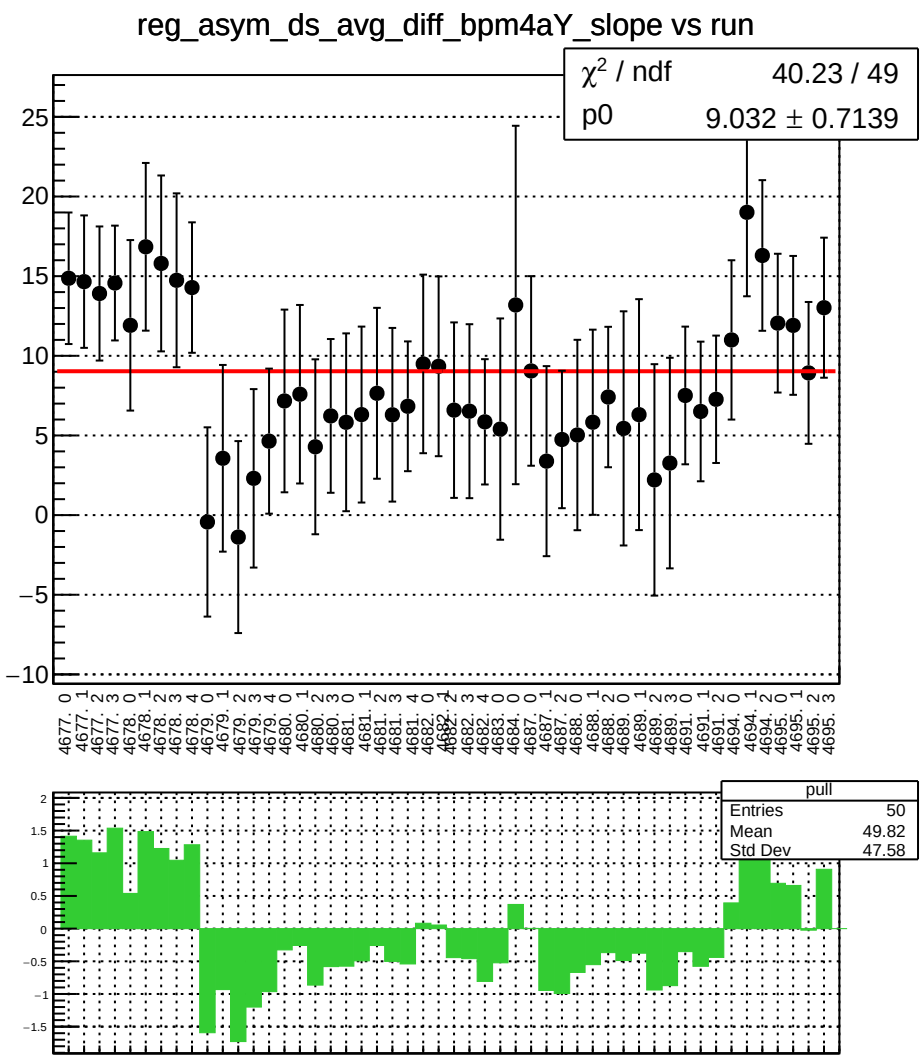

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.38 / 49
p0 0.4327 ± 1.221
pull
Entries 50
Mean 28.82
Std Dev 36.98

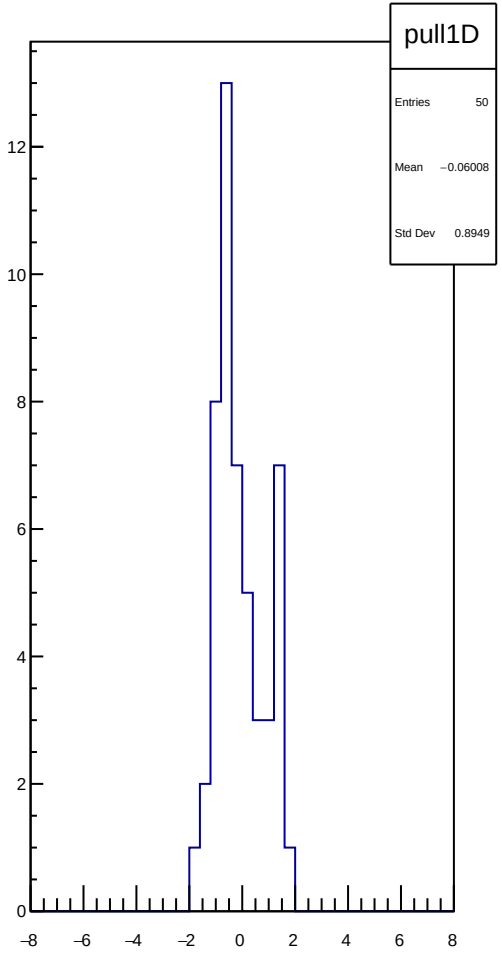

pull1D
Entries 50
Mean 0.05775
Std Dev 0.5331

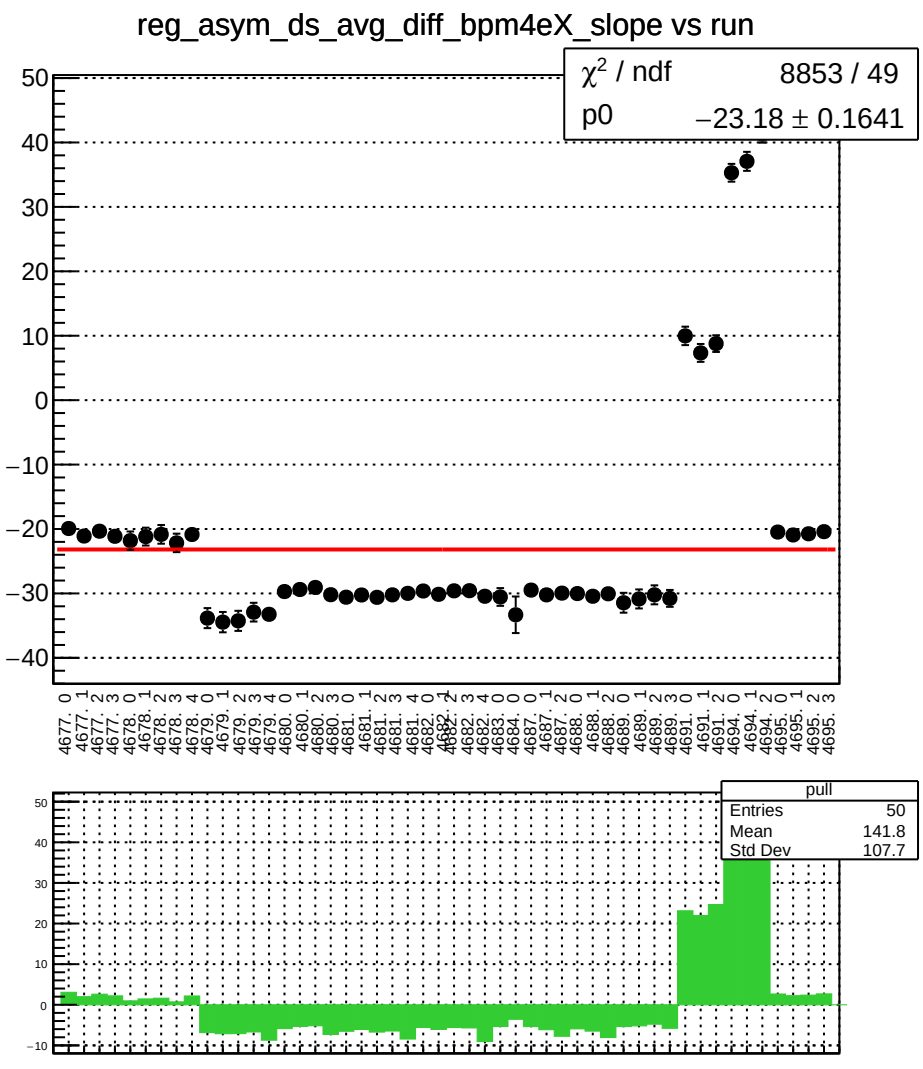

reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 5648 / 49
p0 −16.23 ± 0.1307
pull
Entries 50
Mean 25.38
Std Dev 29.96
pull1D
Entries 50
Mean −5.263
Std Dev 1.278

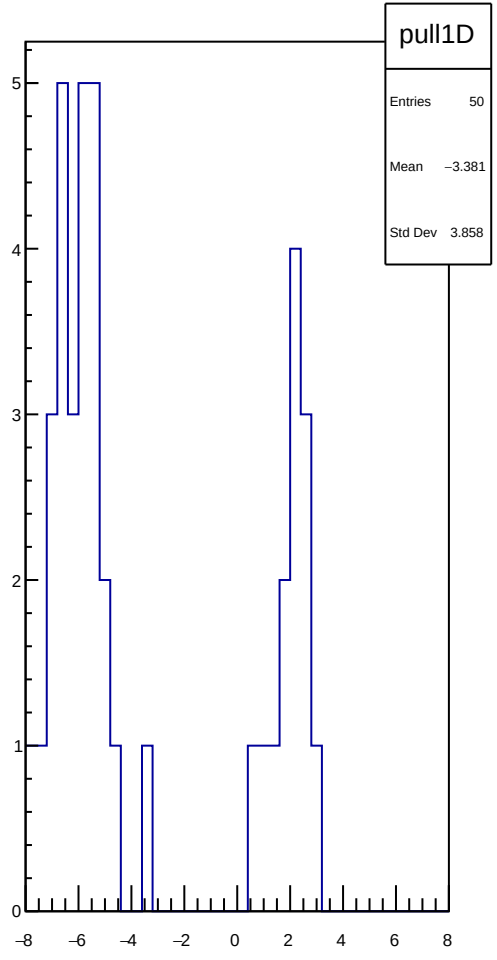

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 3776 / 49
p0 −10.93 ± 0.6979
pull
Entries 50
Mean 155.8
Std Dev 124.5

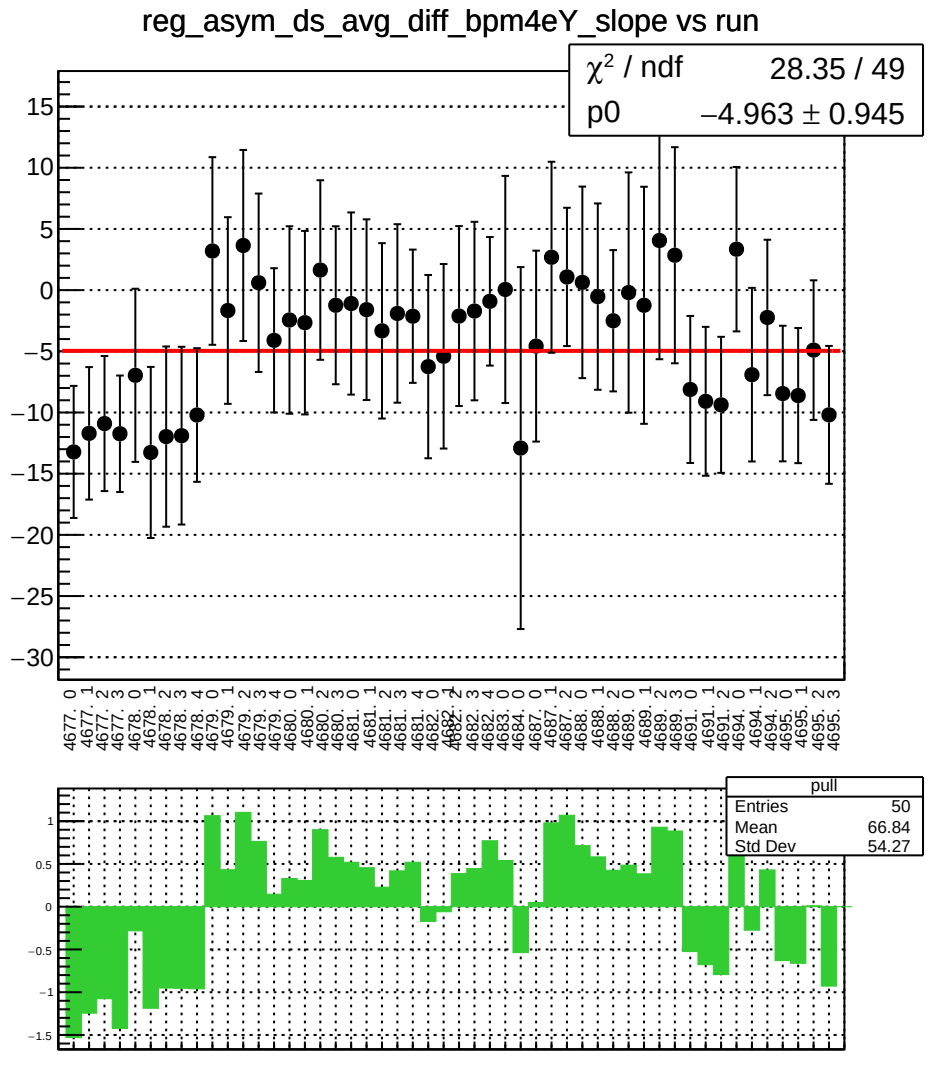

pull1D
Entries 50
Mean 2.529
Std Dev 1.063

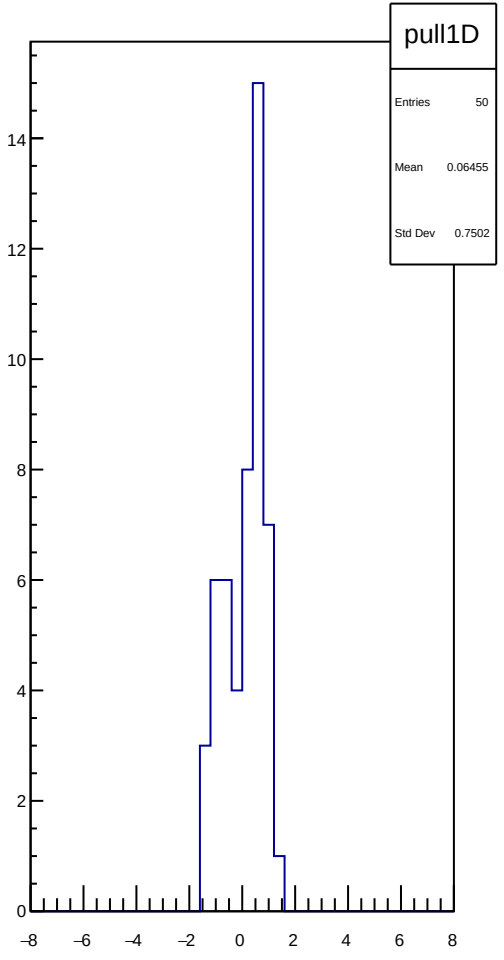

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 40.23 / 49
p0 9.032 ± 0.7139
pull
Entries 50
Mean 49.82
Std Dev 47.58

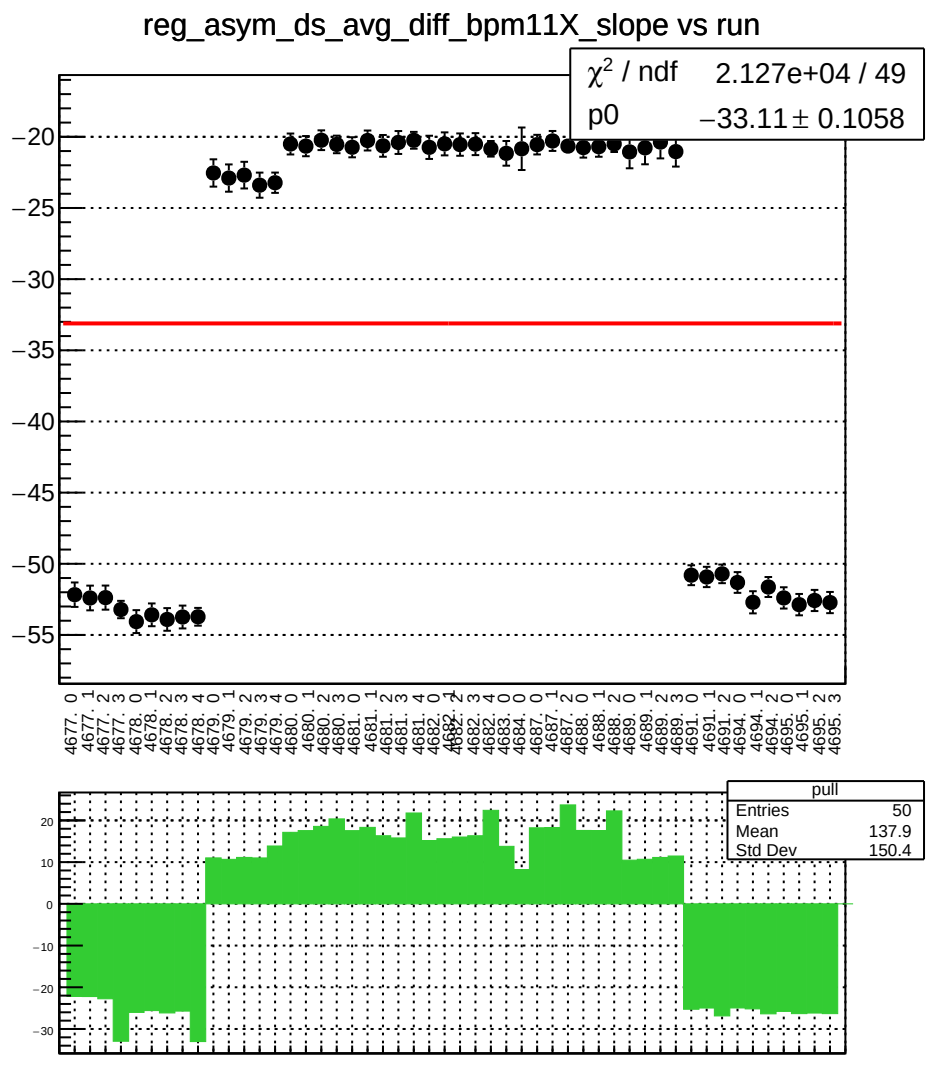

pull1D
Entries 50
Mean −0.06008
Std Dev 0.8949

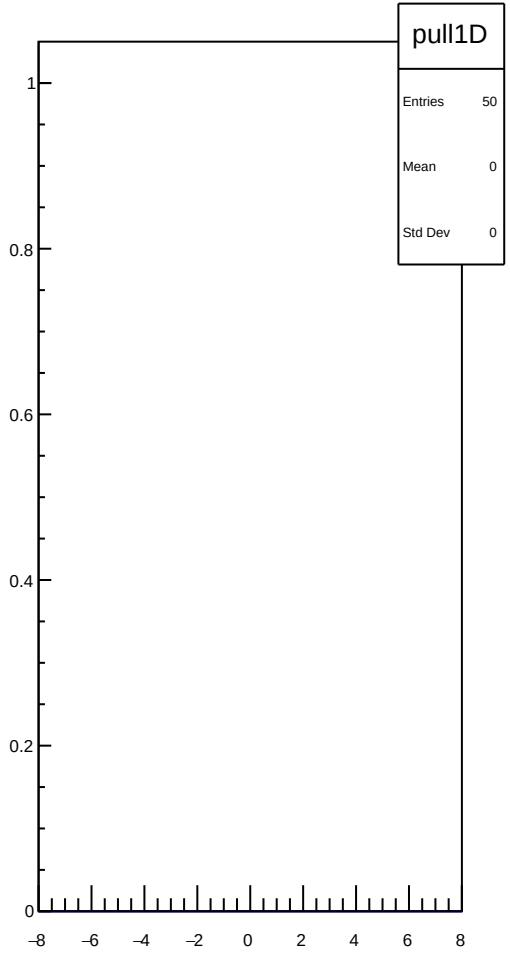

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 8853 / 49
p0 −23.18 ± 0.1641
pull
Entries 50
Mean 141.8
Std Dev 107.7

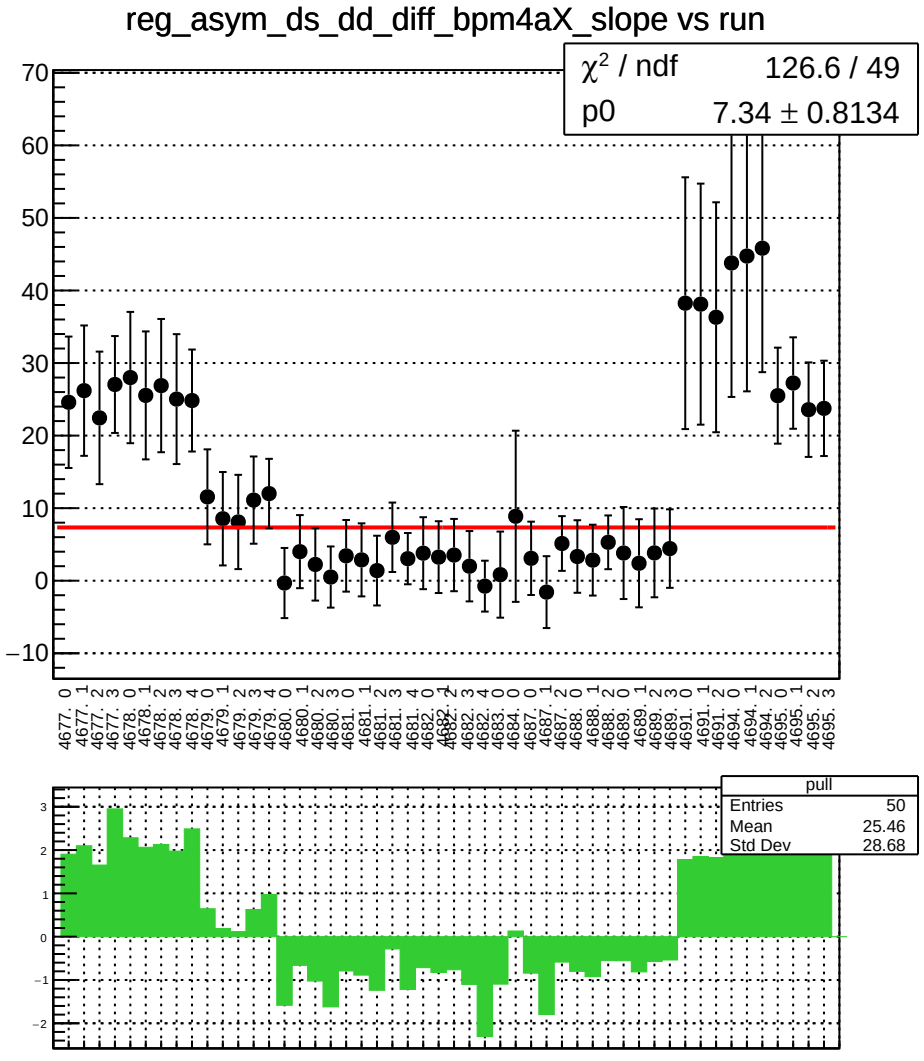

pull1D
Entries 50
Mean −3.381
Std Dev 3.858

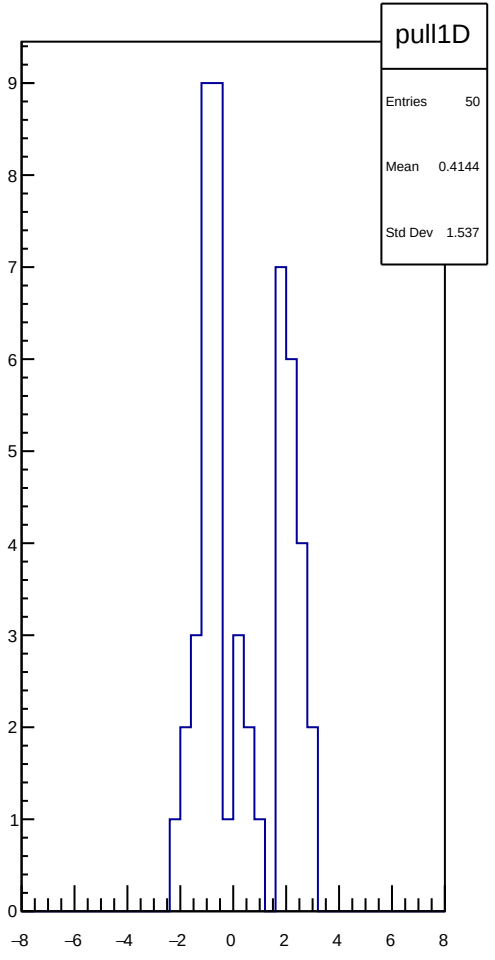

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 28.35 / 49
p0 −4.963 ± 0.945
pull
Entries 50
Mean 66.84
Std Dev 54.27

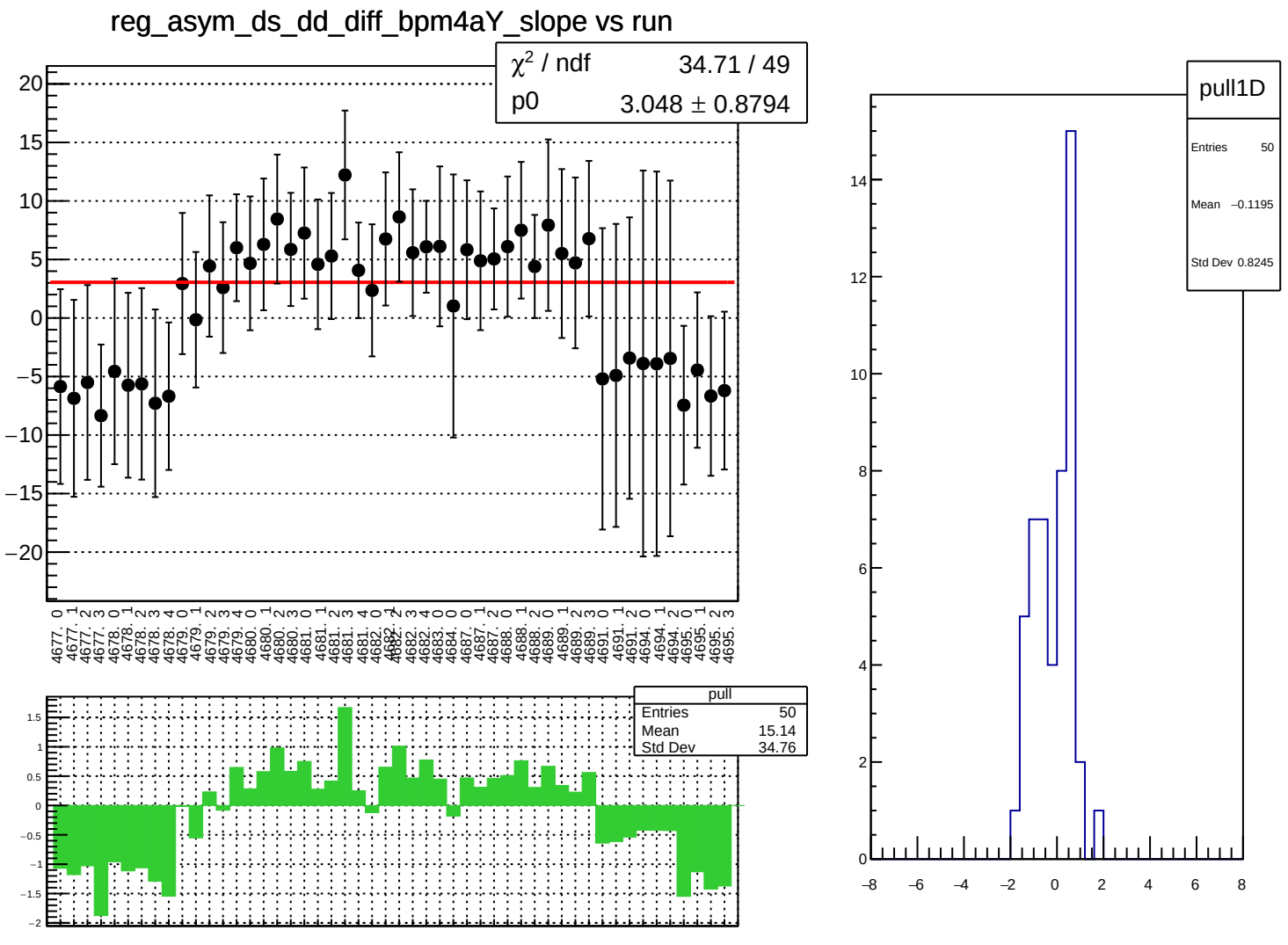

pull1D
Entries 50
Mean 0.06455
Std Dev 0.7502

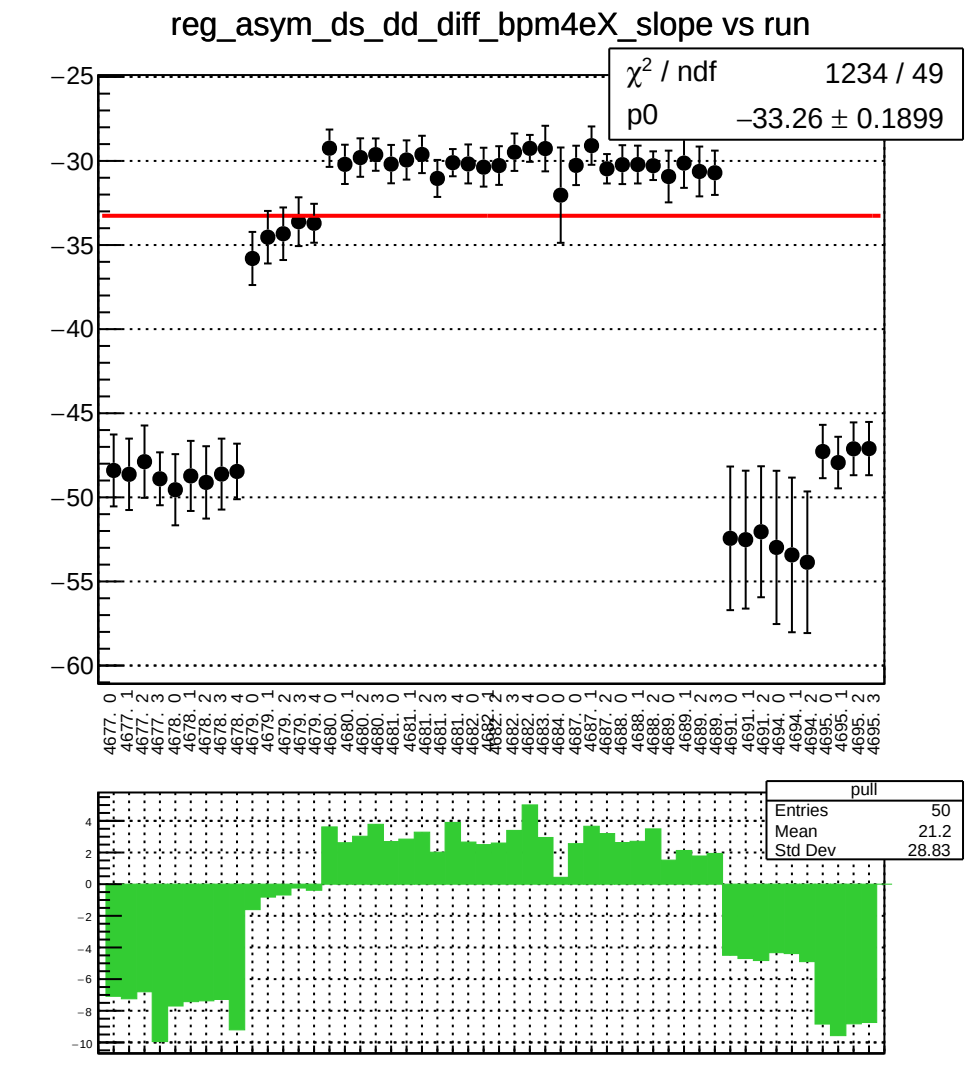

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 2.127e+04 / 49
p0 −33.11 ± 0.1058
pull
Entries 50
Mean 137.9
Std Dev 150.4

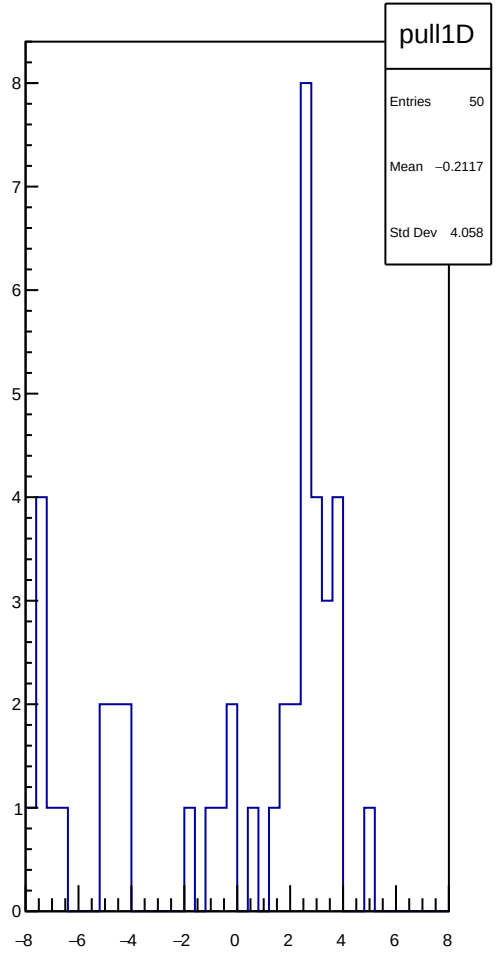

pull1D
Entries 50
Mean 0
Std Dev 0

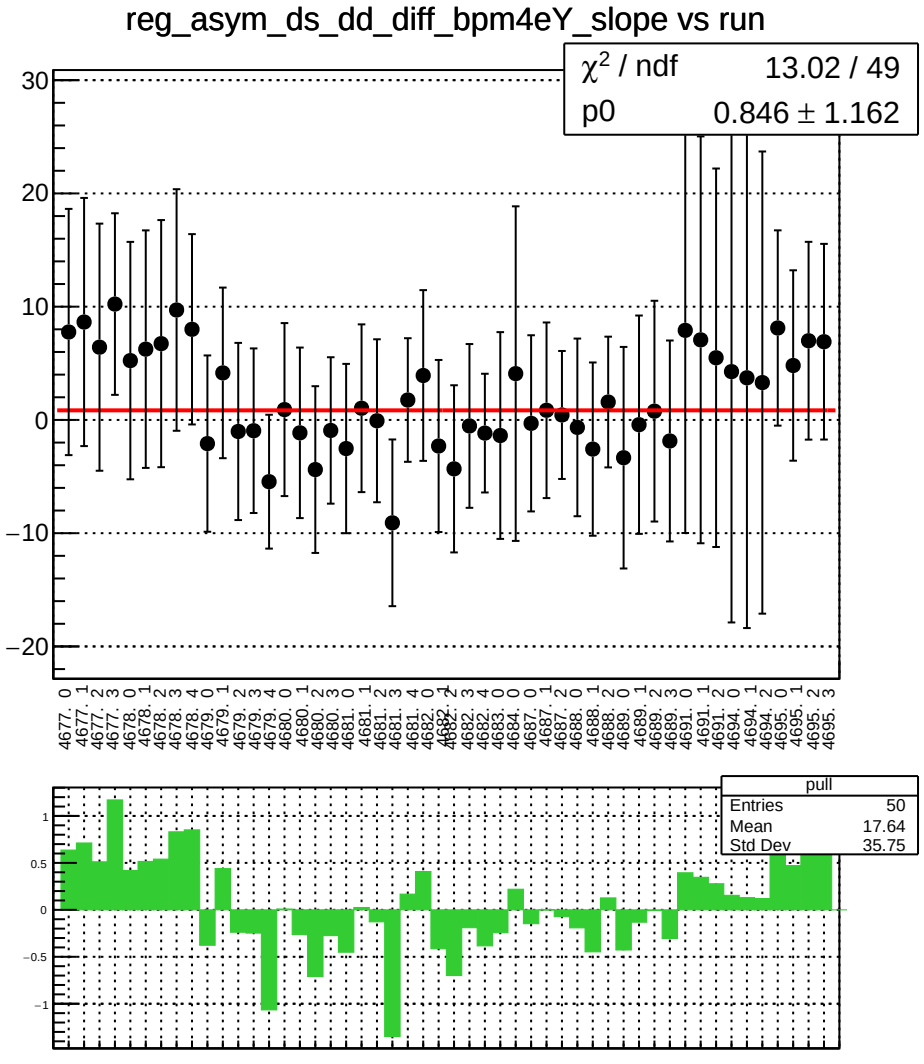

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 126.6 / 49
p0 7.34 ± 0.8134
pull
Entries 50
Mean 25.46
Std Dev 28.68

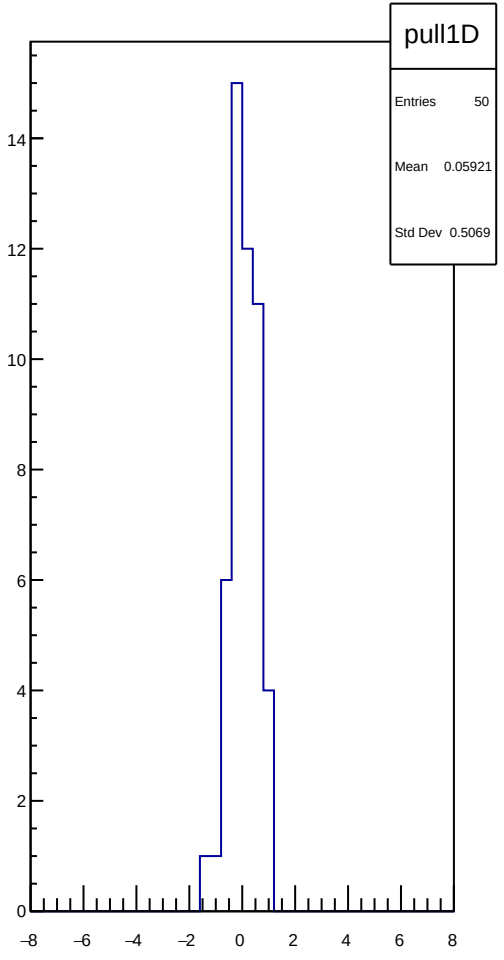

pull1D
Entries 50
Mean 0.4144
Std Dev 1.537

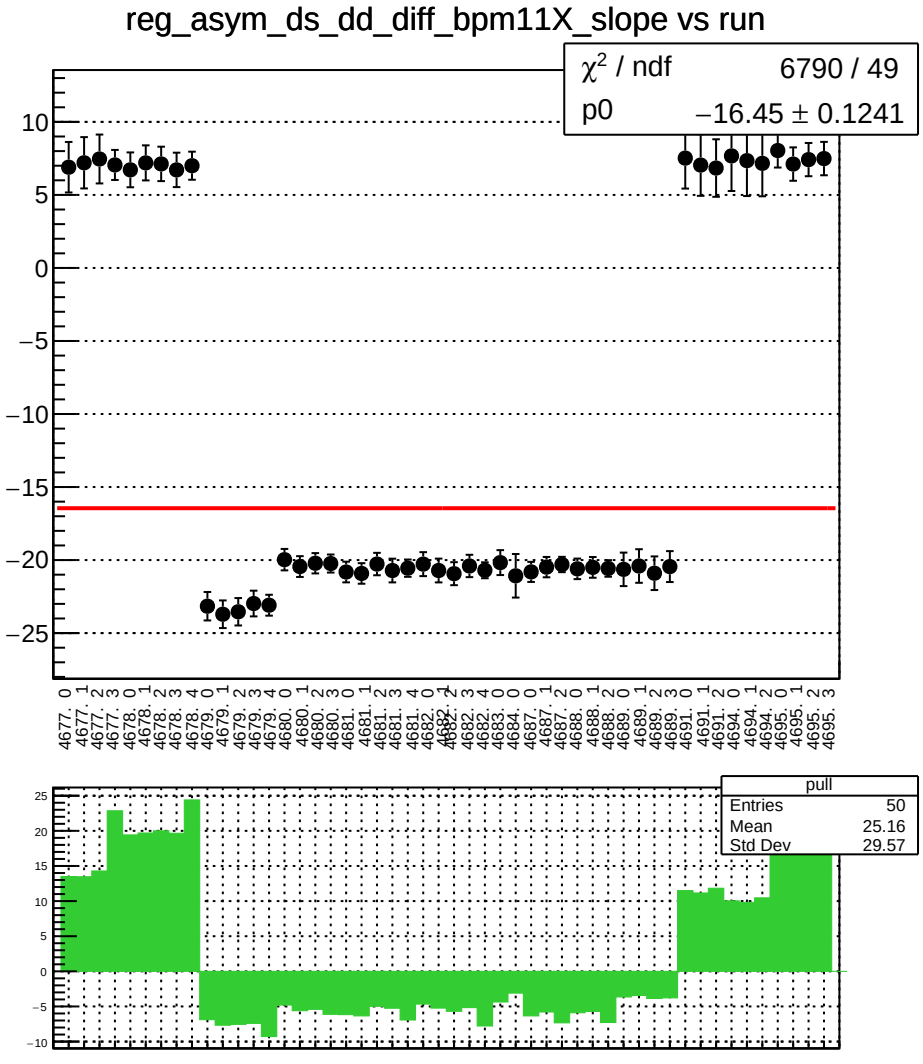

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 34.71 / 49
p0 3.048 ± 0.8794
pull
Entries 50
Mean 15.14
Std Dev 34.76
pull1D
Entries 50
Mean −0.1195
Std Dev 0.8245

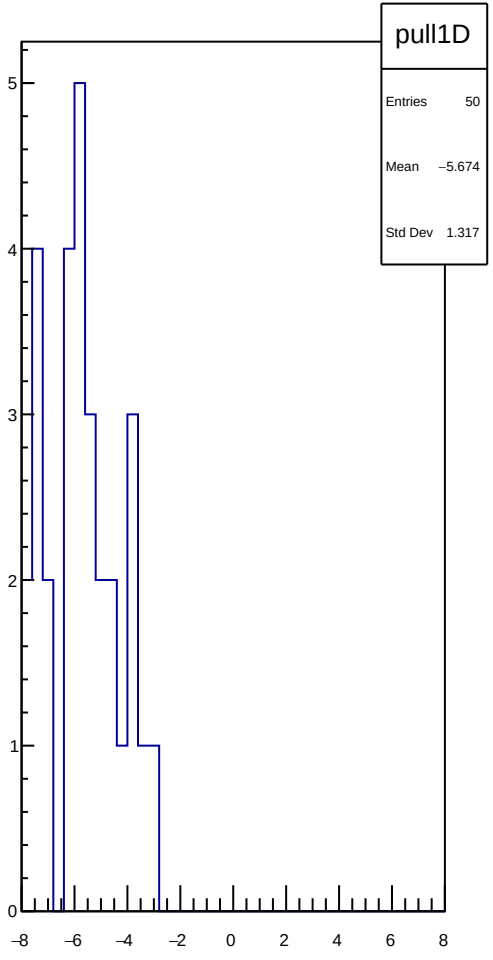

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 1234 / 49
p0 −33.26 ± 0.1899
pull
Entries 50
Mean 21.2
Std Dev 28.83

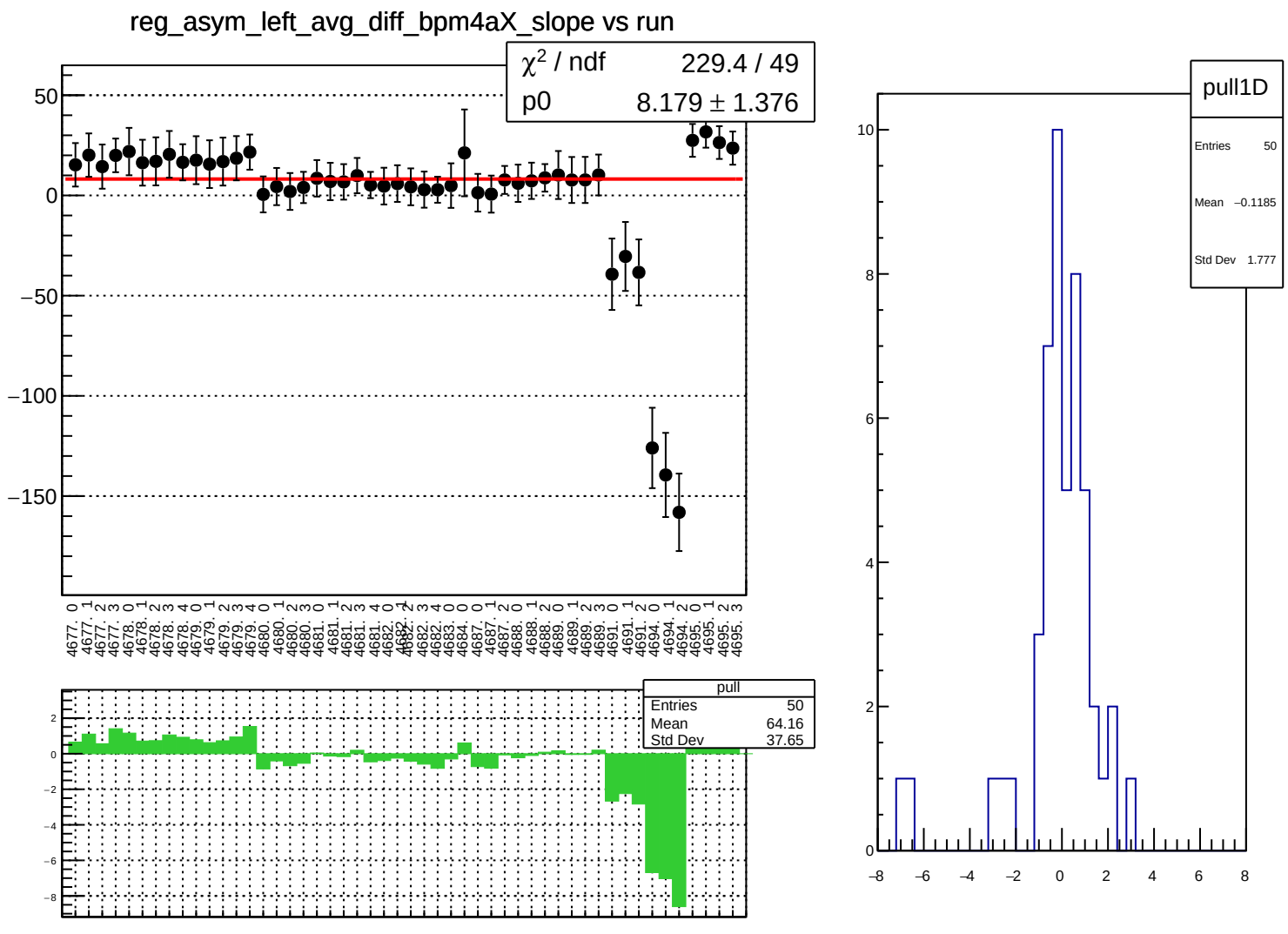

pull1D
Entries 50
Mean −0.2117
Std Dev 4.058

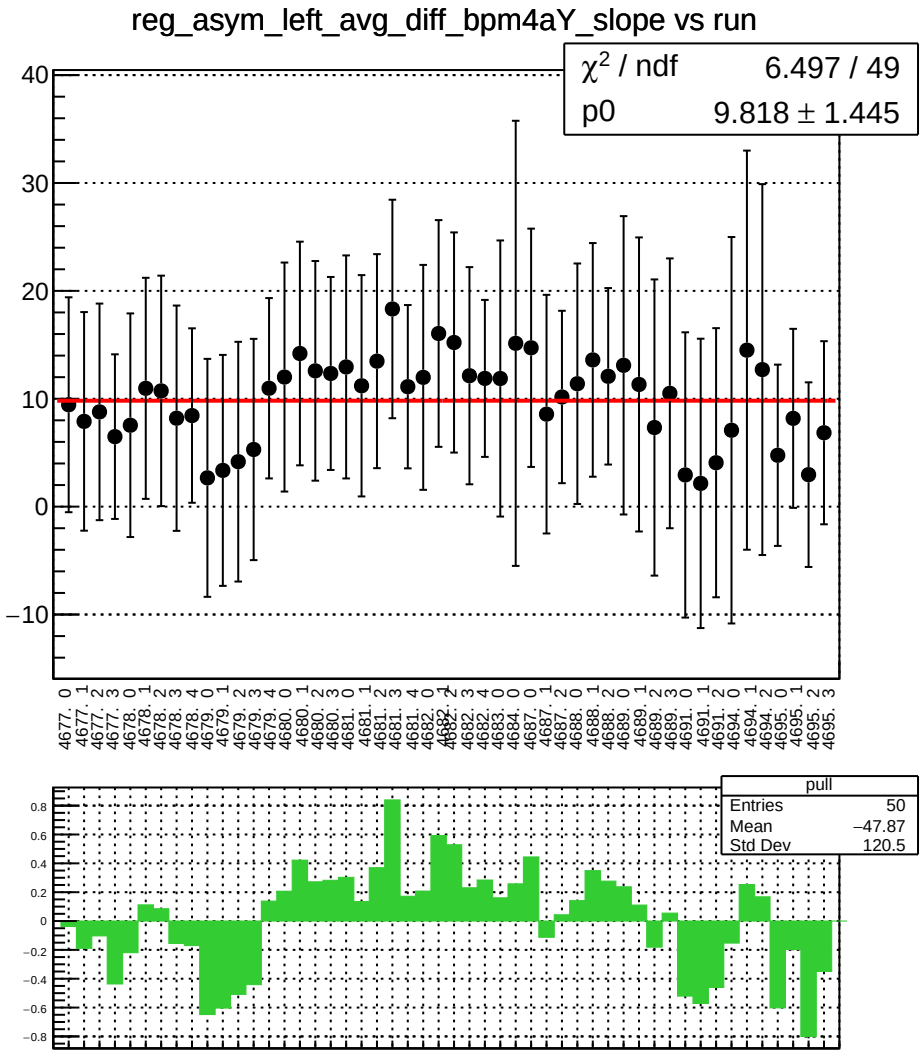

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.02 / 49
p0 0.846 ± 1.162
pull
Entries 50
Mean 17.64
Std Dev 35.75

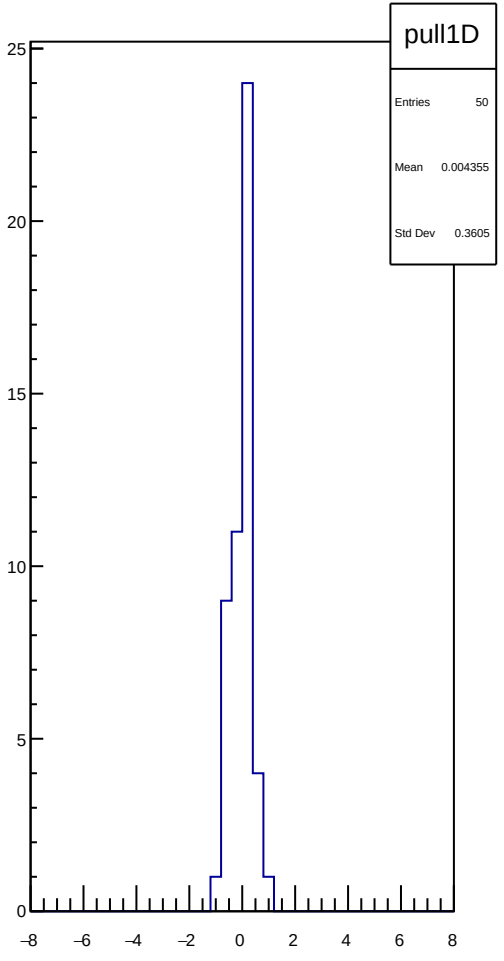

pull1D
Entries 50
Mean 0.05921
Std Dev 0.5069

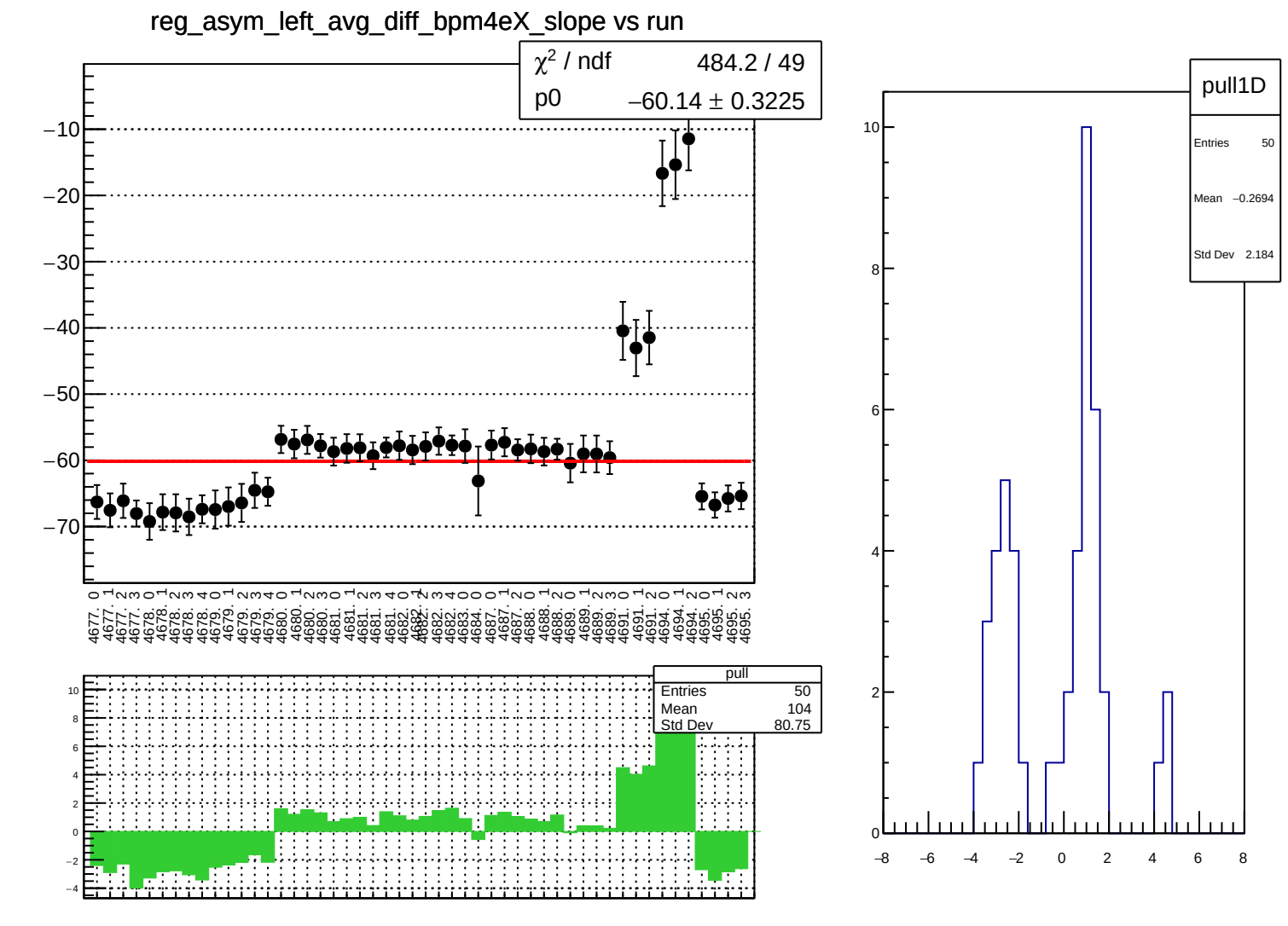

reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 6790 / 49
p0 −16.45 ± 0.1241
pull
Entries 50
Mean 25.16
Std Dev 29.57

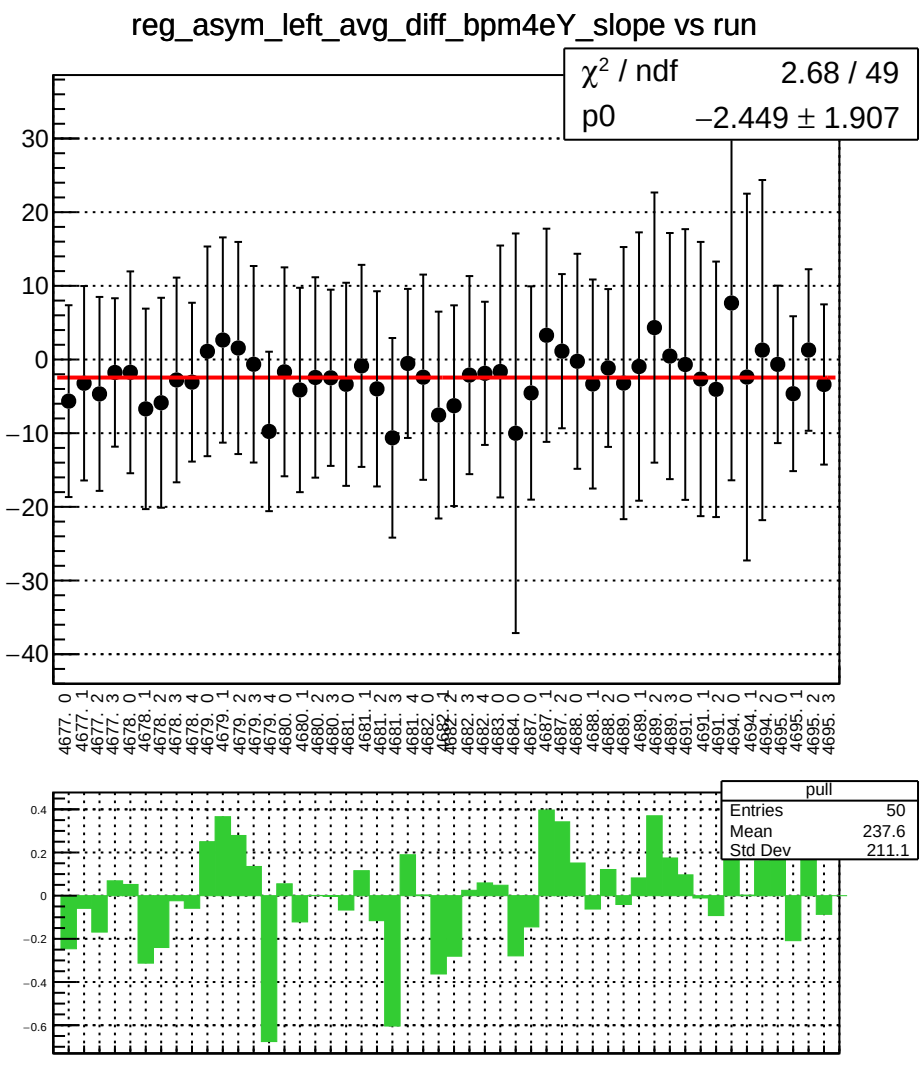

pull1D
Entries 50
Mean −5.674
Std Dev 1.317

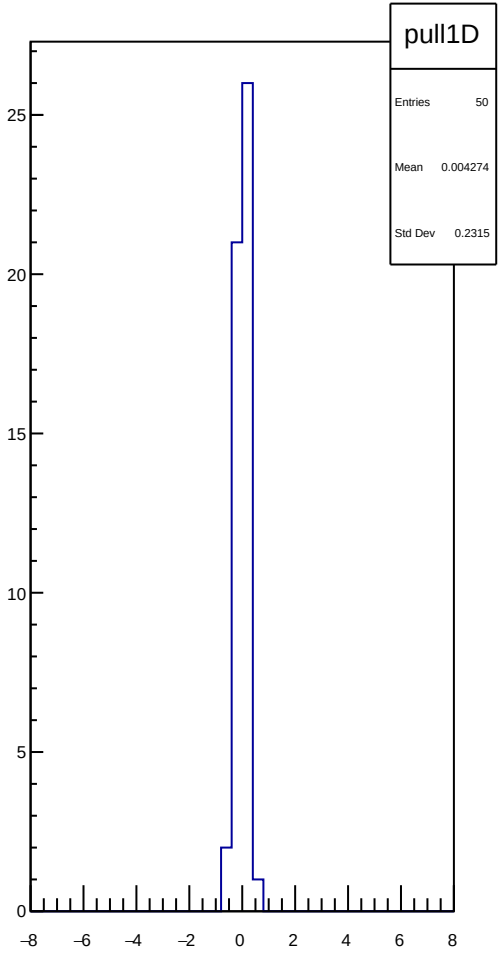

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 229.4 / 49
p0 8.179 ± 1.376
50
0
−50
−100
−150
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 64.16
Std Dev 37.65
2
0
−2
−4
−6
−8
pull1D
Entries 50
Mean −0.1185
Std Dev 1.777
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

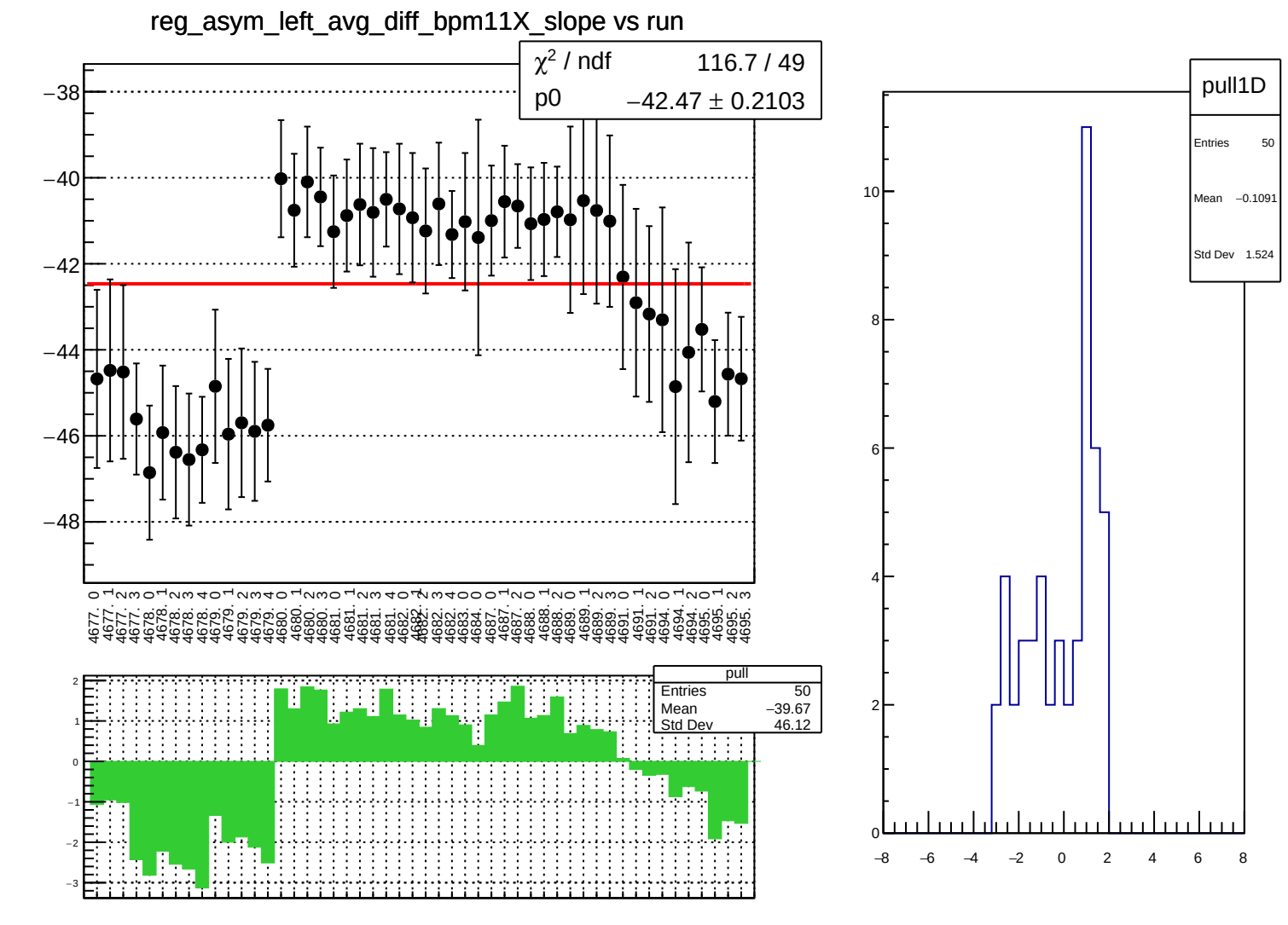

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.497 / 49
p0 9.818 ± 1.445
pull
Entries 50
Mean −47.87
Std Dev 120.5

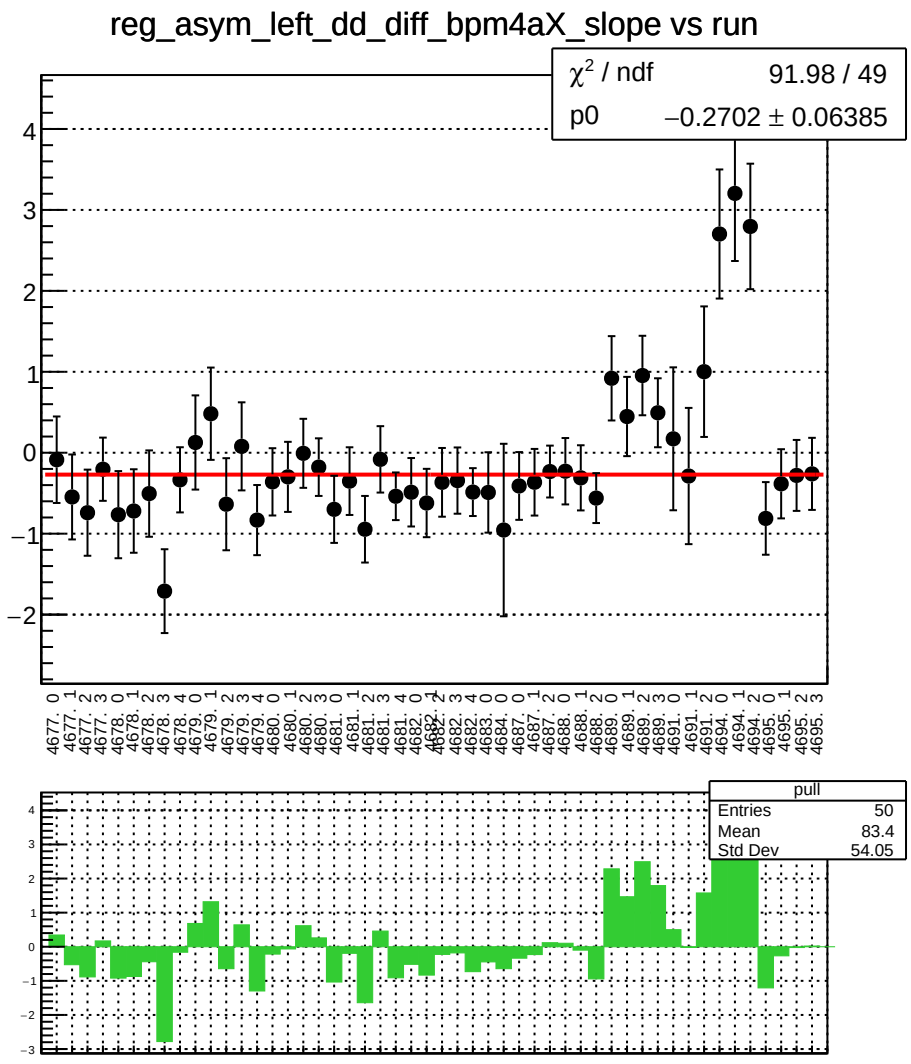

pull1D
Entries 50
Mean 0.004355
Std Dev 0.3605

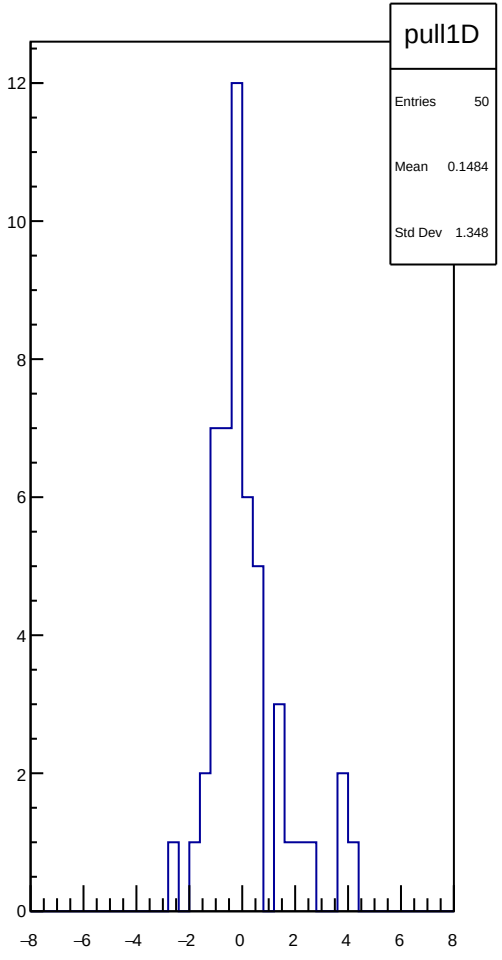

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 484.2 / 49
p0 −60.14 ± 0.3225
pull
Entries 50
Mean 104
Std Dev 80.75
pull1D
Entries 50
Mean −0.2694
Std Dev 2.184

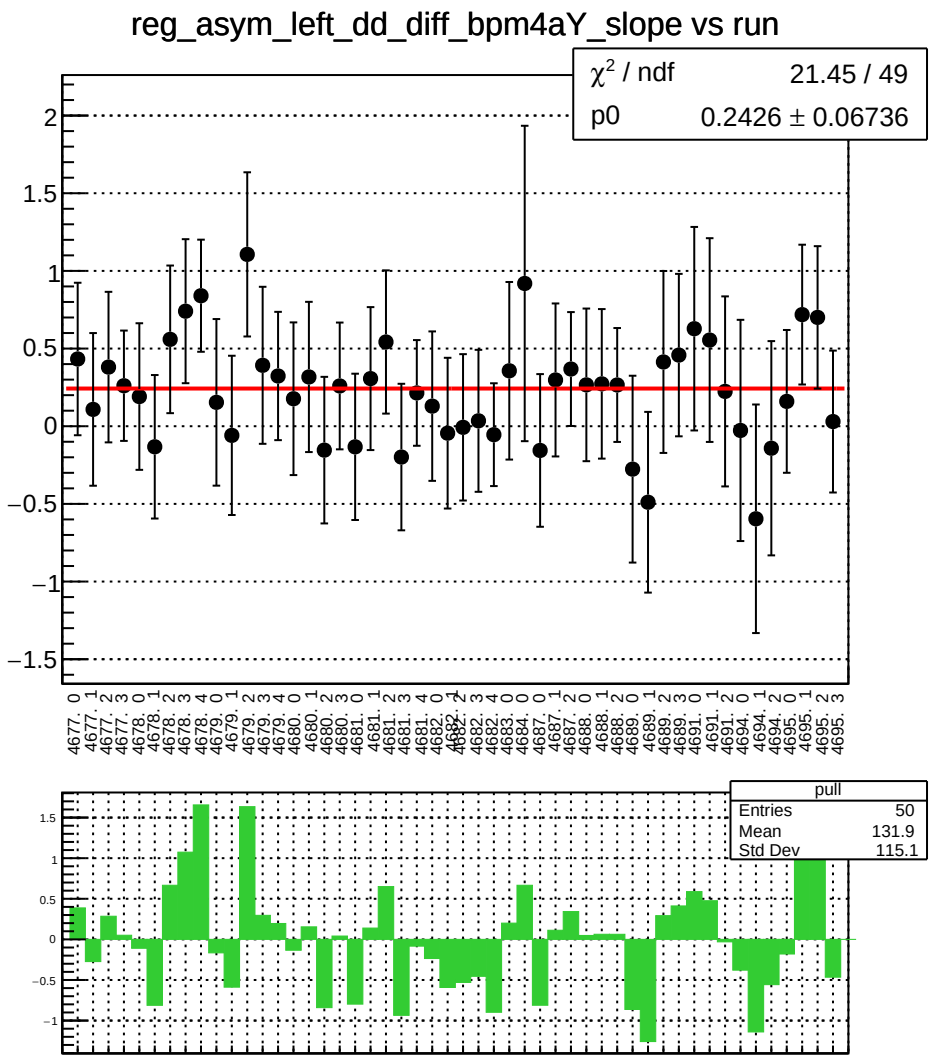

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.68 / 49
p0 −2.449 ± 1.907
pull
Entries 50
Mean 237.6
Std Dev 211.1

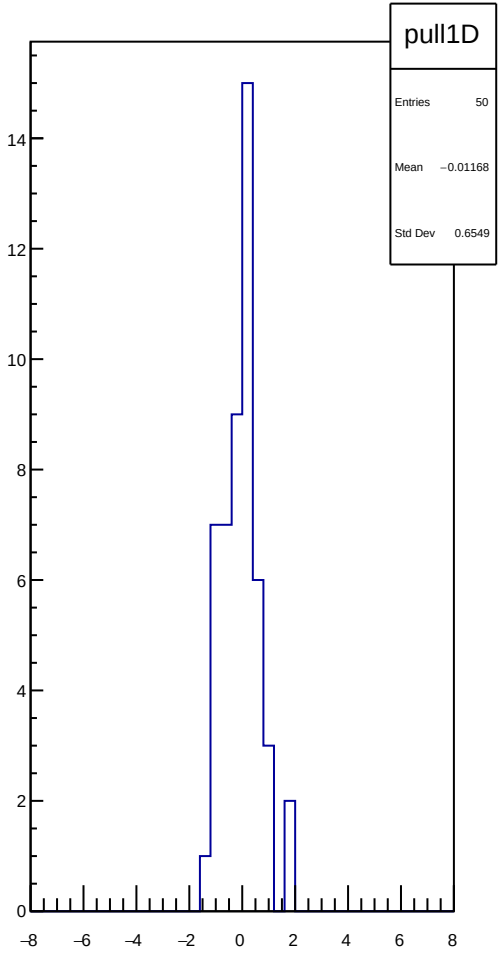

pull1D
Entries 50
Mean 0.004274
Std Dev 0.2315

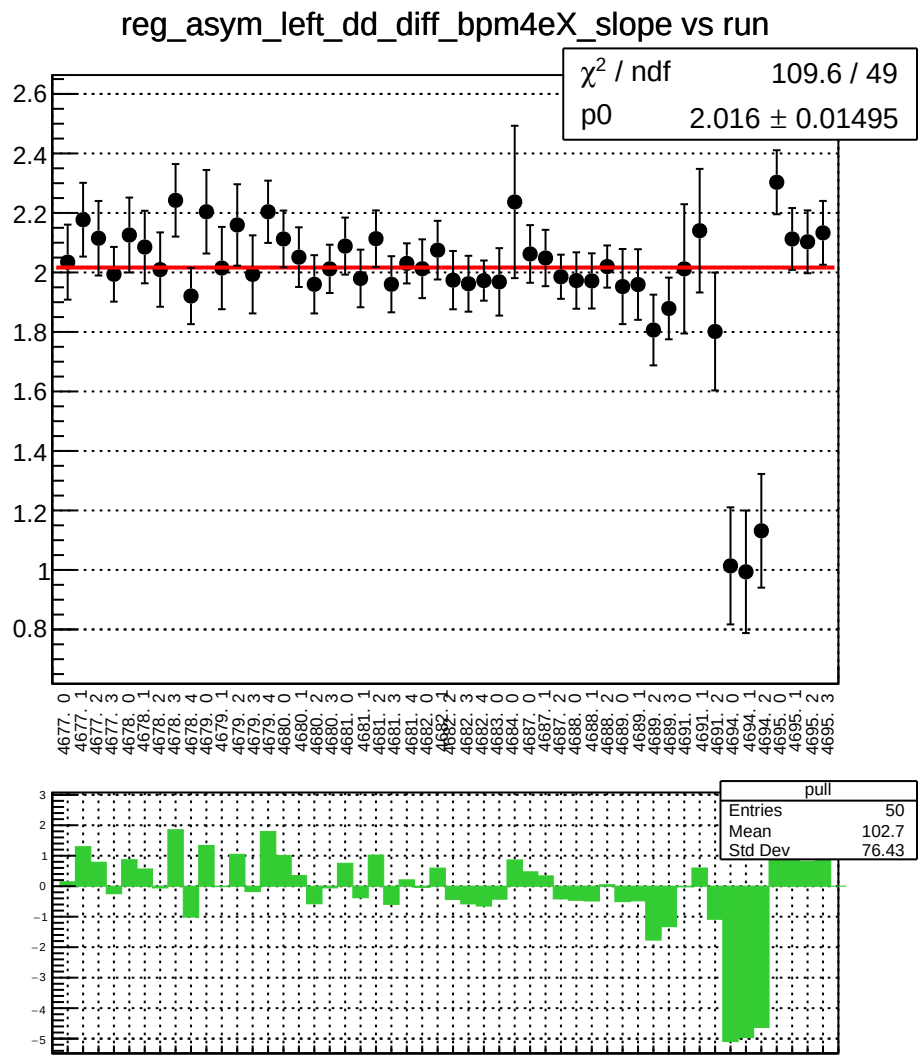

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 116.7 / 49
p0 −42.47 ± 0.2103
pull
Entries 50
Mean −39.67
Std Dev 46.12
pull1D
Entries 50
Mean −0.1091
Std Dev 1.524

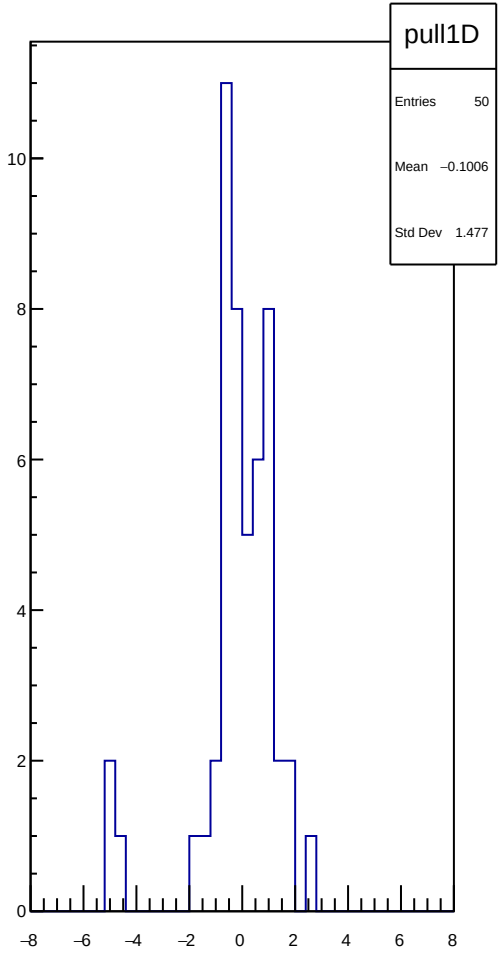

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 91.98 / 49
p0 −0.2702 ± 0.06385
pull
Entries 50
Mean 83.4
Std Dev 54.05

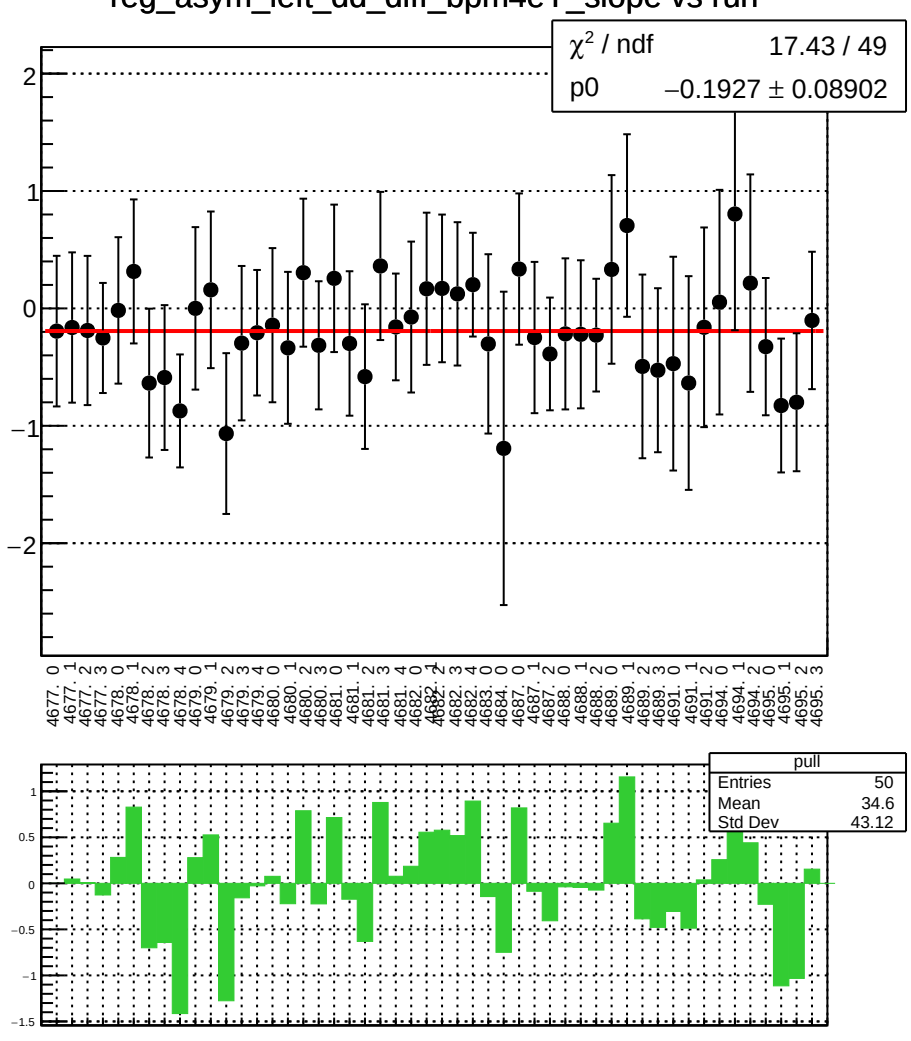

pull1D
Entries 50
Mean 0.1484
Std Dev 1.348

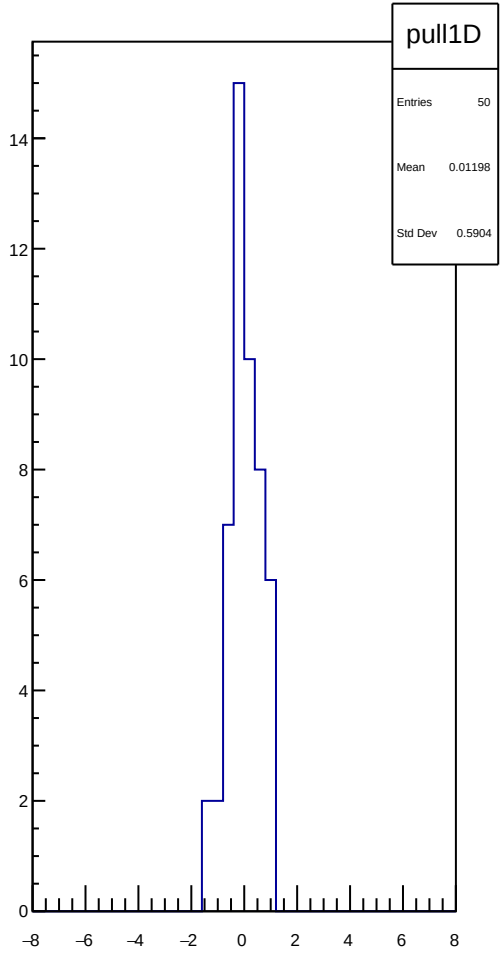

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.45 / 49
p0 0.2426 ± 0.06736
pull
Entries 50
Mean 131.9
Std Dev 115.1

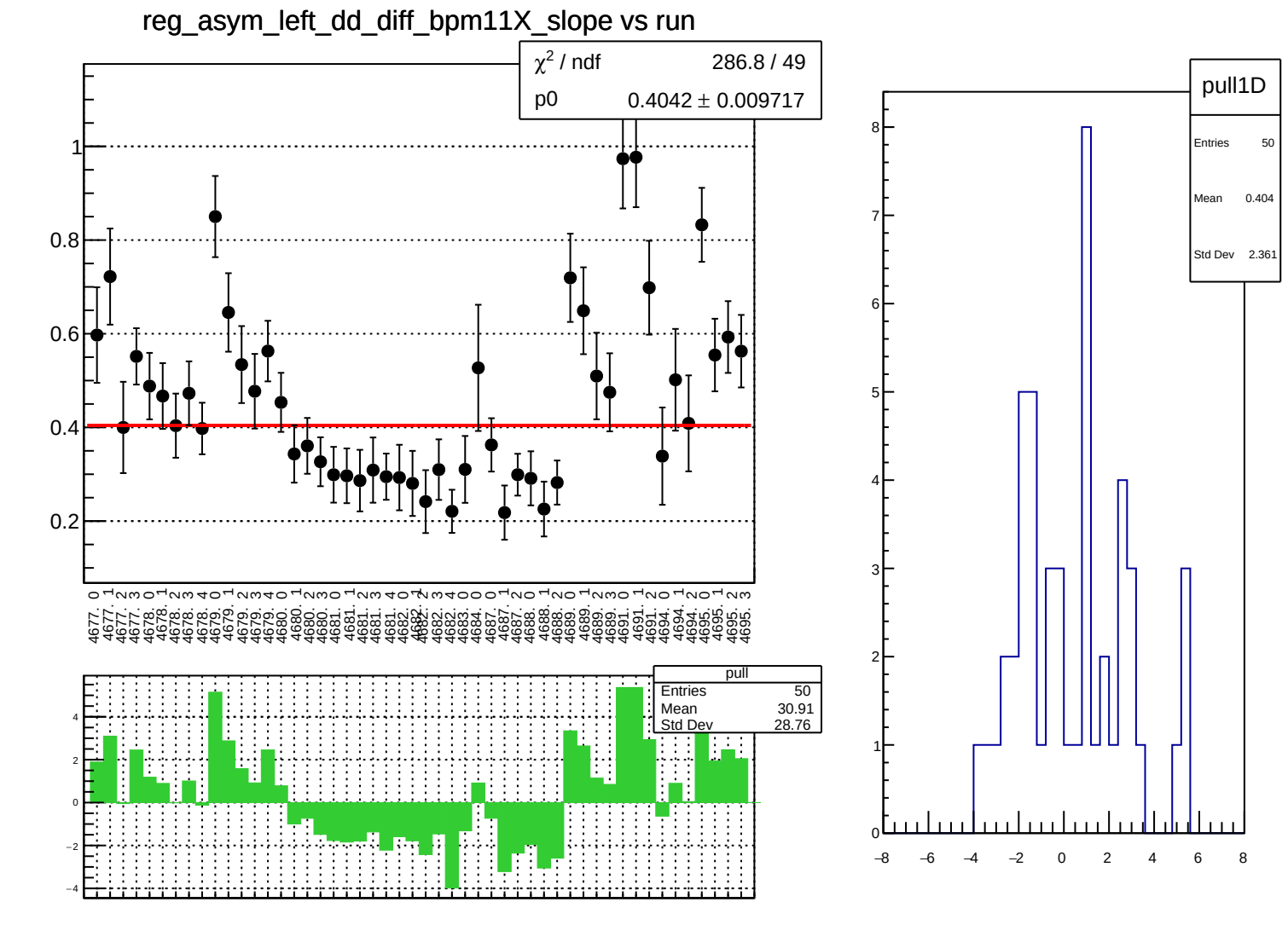

pull1D
Entries 50
Mean −0.01168
Std Dev 0.6549

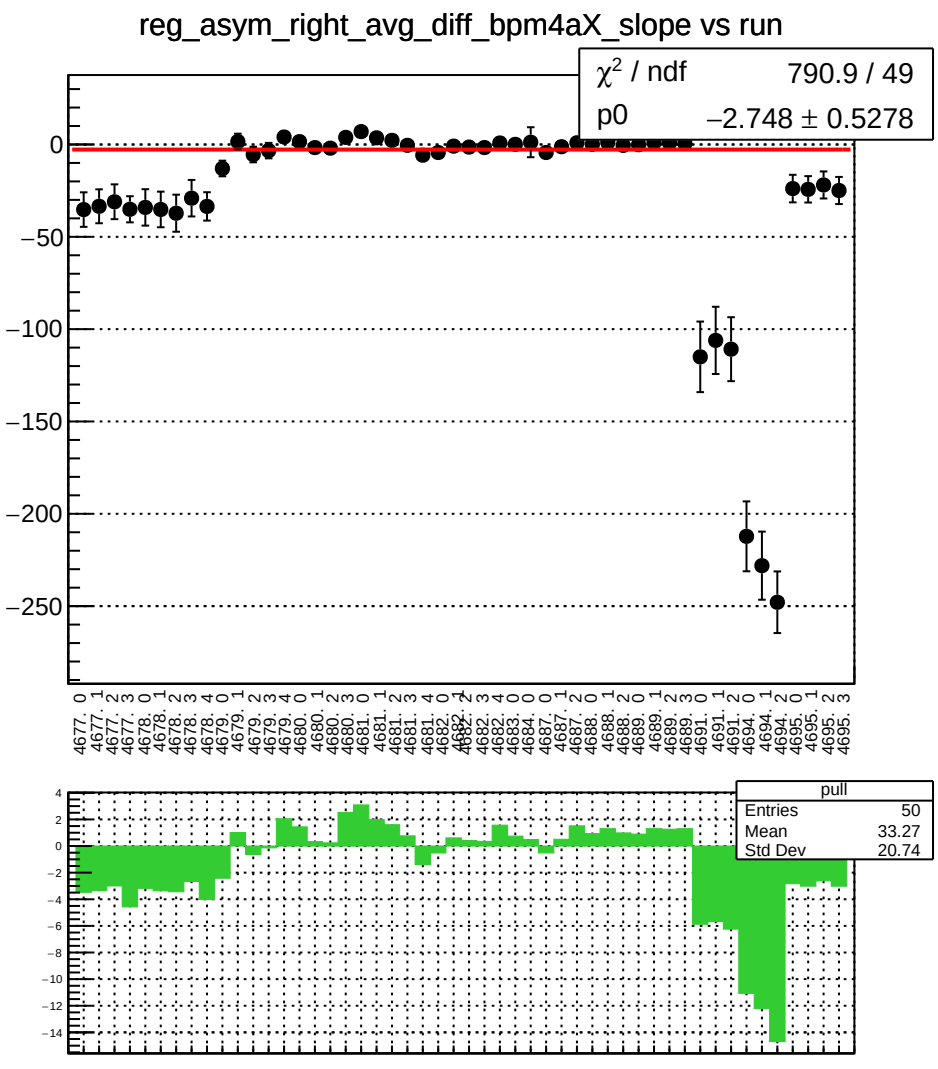

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 109.6 / 49
p0 2.016 ± 0.01495
pull
Entries 50
Mean 102.7
Std Dev 76.43

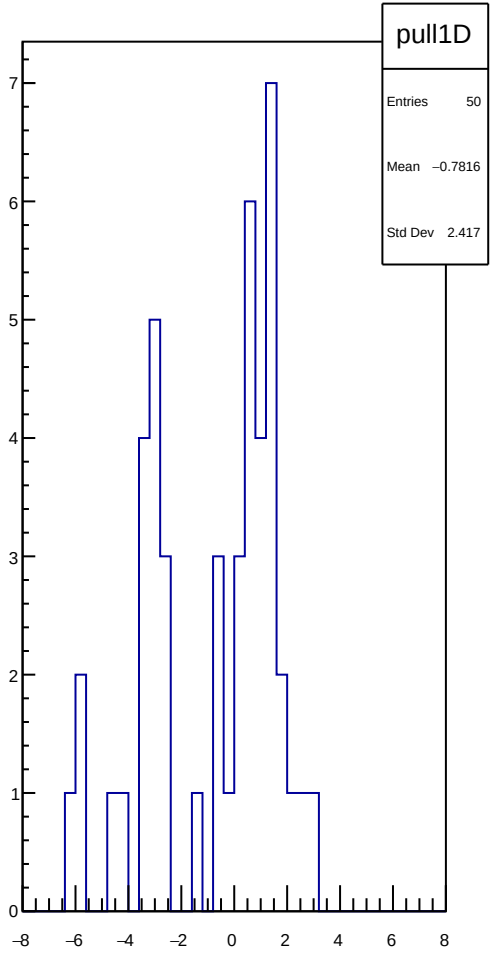

pull1D
Entries 50
Mean −0.1006
Std Dev 1.477

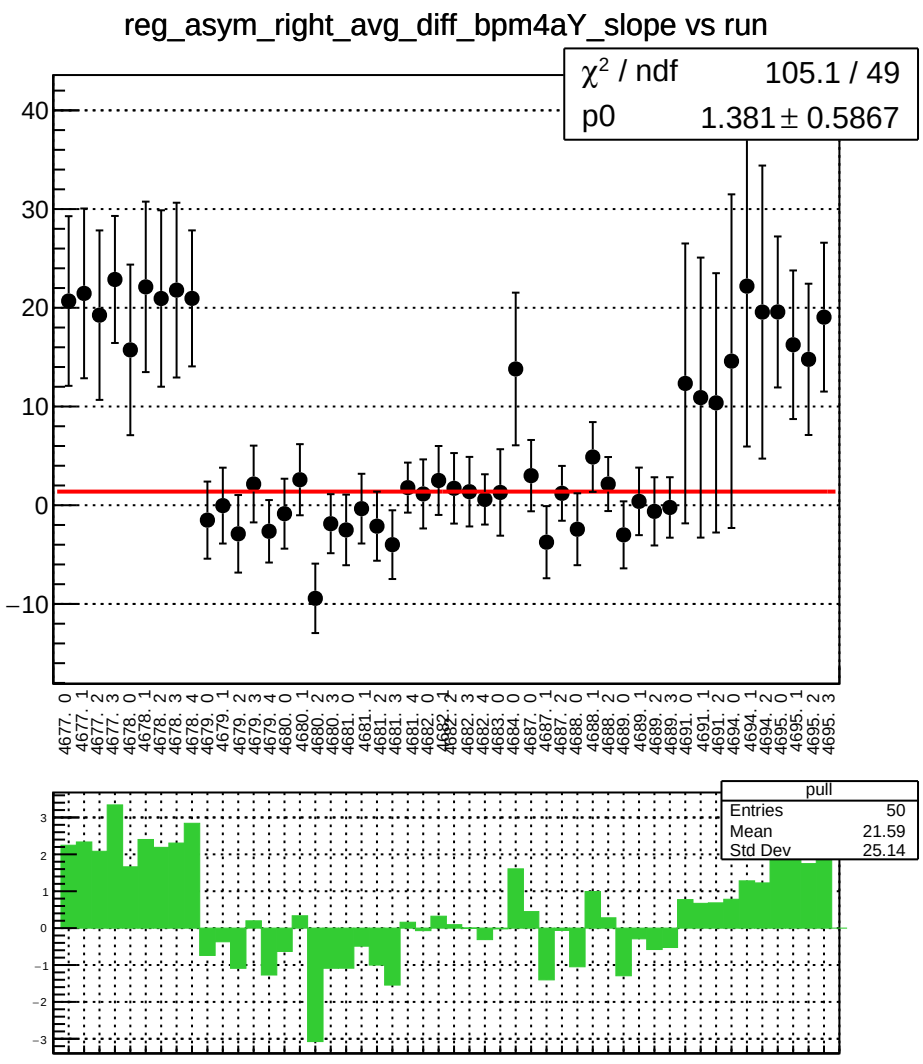

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.43 / 49
p0 −0.1927 ± 0.08902
pull
Entries 50
Mean 34.6
Std Dev 43.12

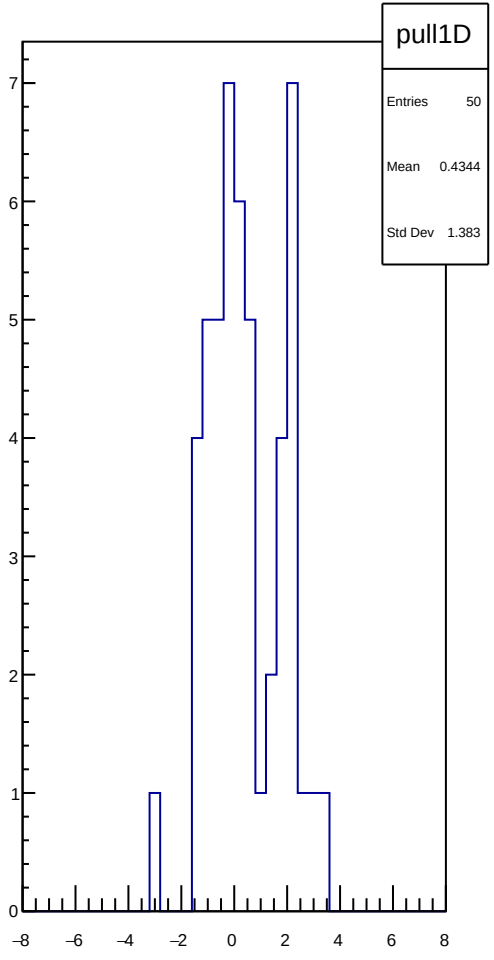

pull1D
Entries 50
Mean 0.01198
Std Dev 0.5904

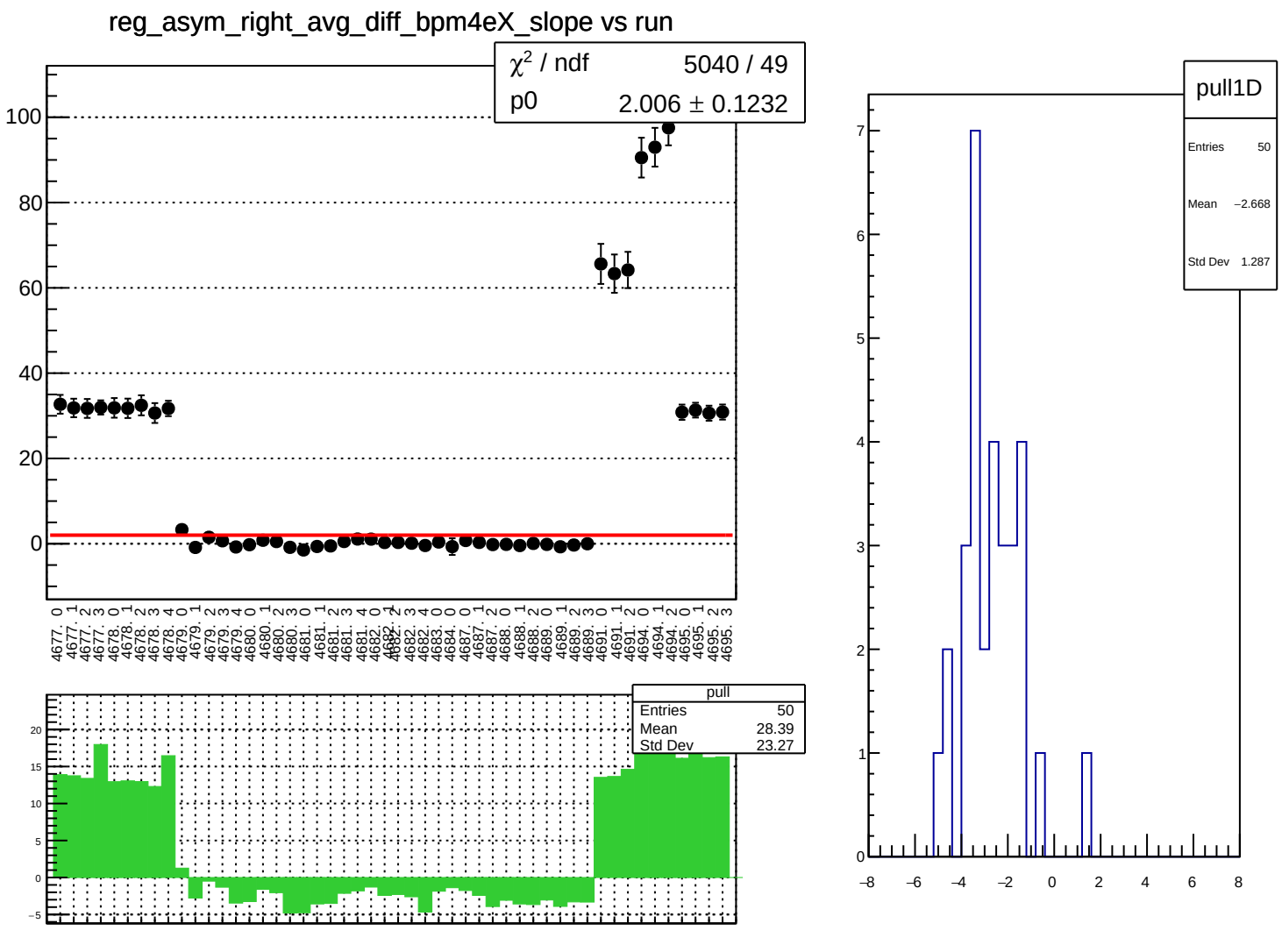

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 286.8 / 49
p0 0.4042 ± 0.009717
pull
Entries 50
Mean 30.91
Std Dev 28.76
pull1D
Entries 50
Mean 0.404
Std Dev 2.361

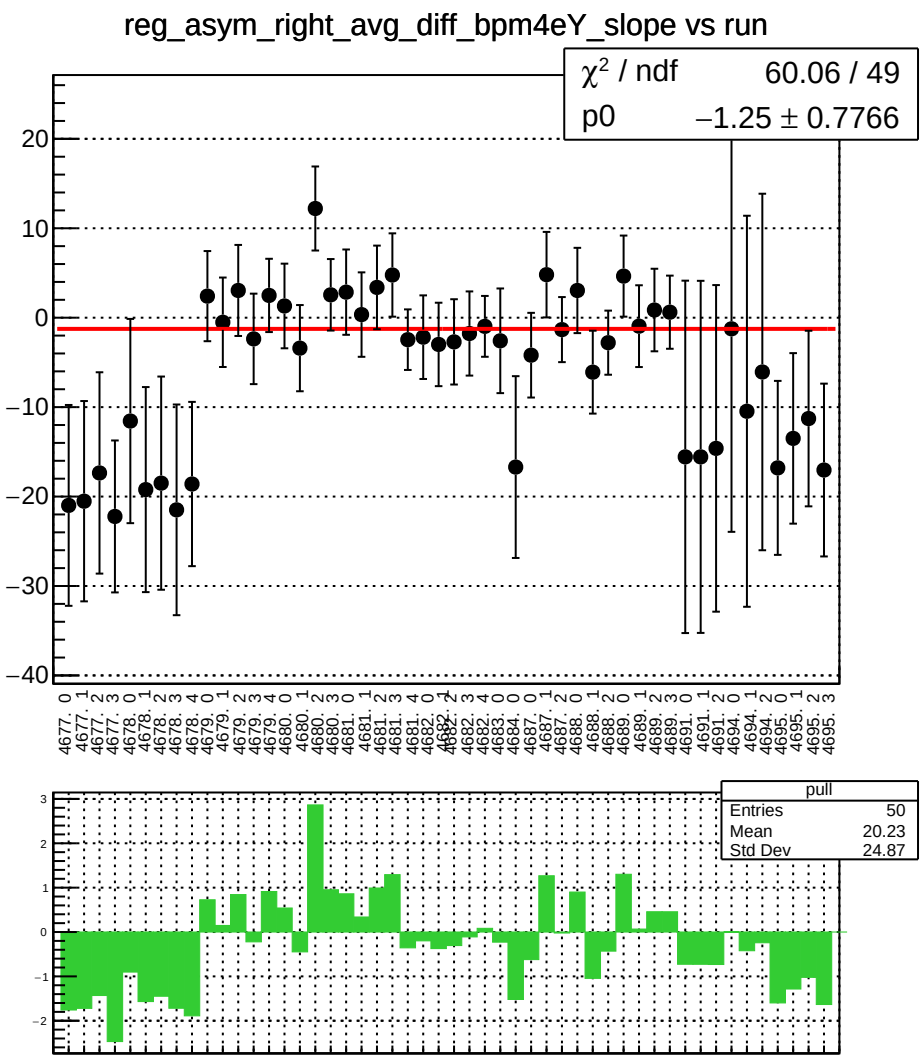

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 790.9 / 49
p0 −2.748 ± 0.5278
pull
Entries 50
Mean 33.27
Std Dev 20.74

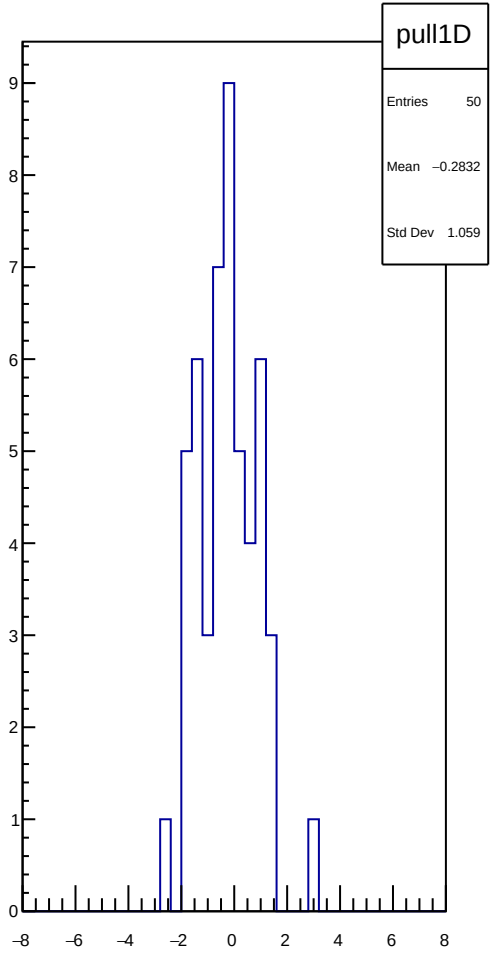

pull1D
Entries 50
Mean −0.7816
Std Dev 2.417

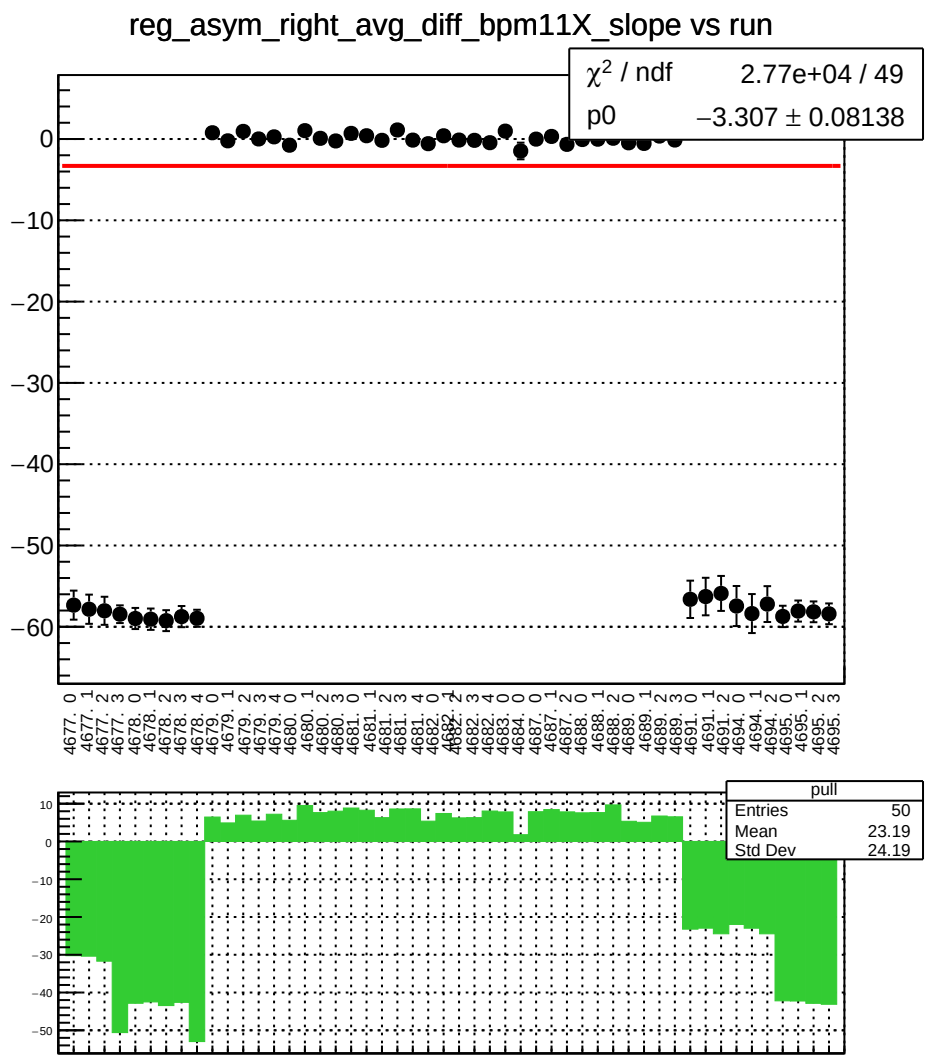

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 105.1 / 49
p0 1.381 ± 0.5867
pull
Entries 50
Mean 21.59
Std Dev 25.14

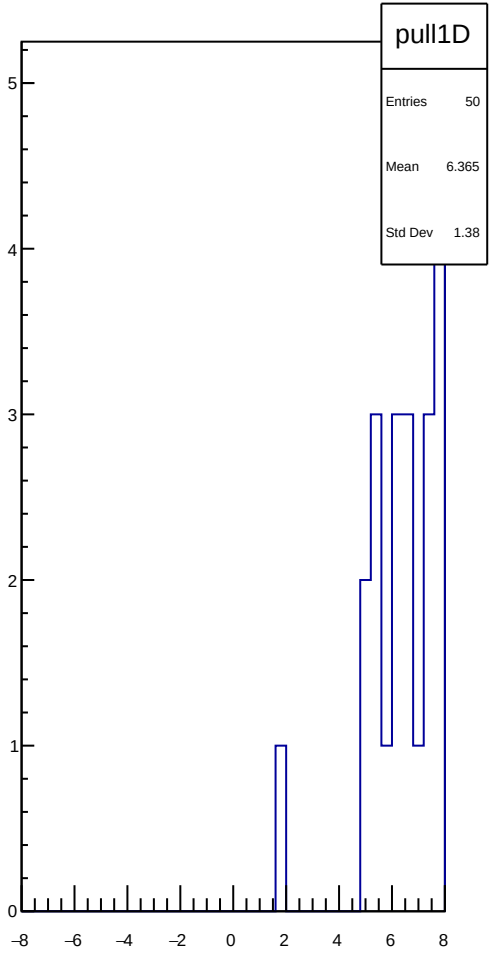

pull1D
Entries 50
Mean 0.4344
Std Dev 1.383

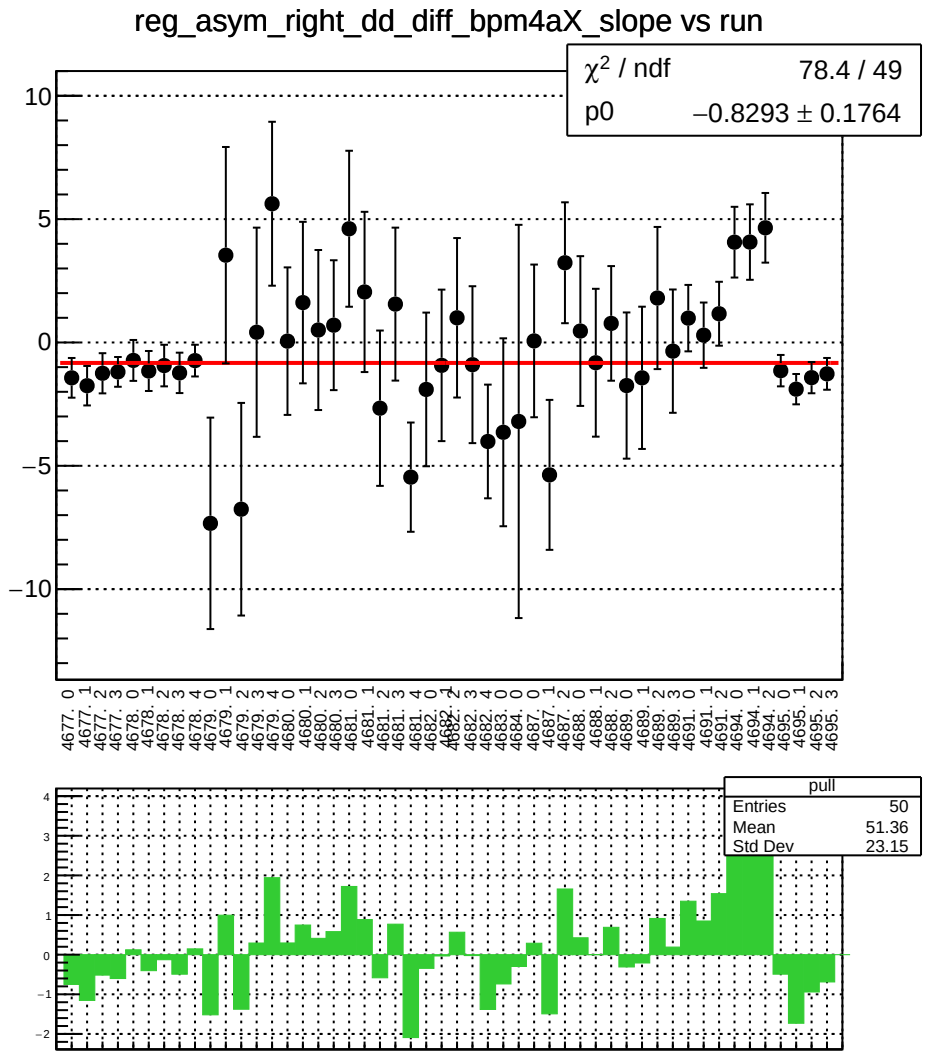

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 5040 / 49
p0 2.006 ± 0.1232
pull
Entries 50
Mean 28.39
Std Dev 23.27
pull1D
Entries 50
Mean −2.668
Std Dev 1.287

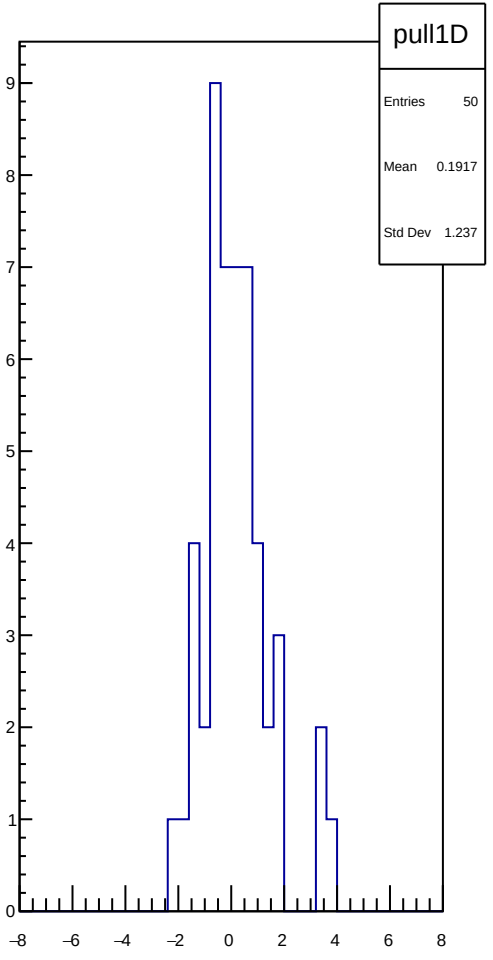

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 60.06 / 49
p0 −1.25 ± 0.7766
pull
Entries 50
Mean 20.23
Std Dev 24.87

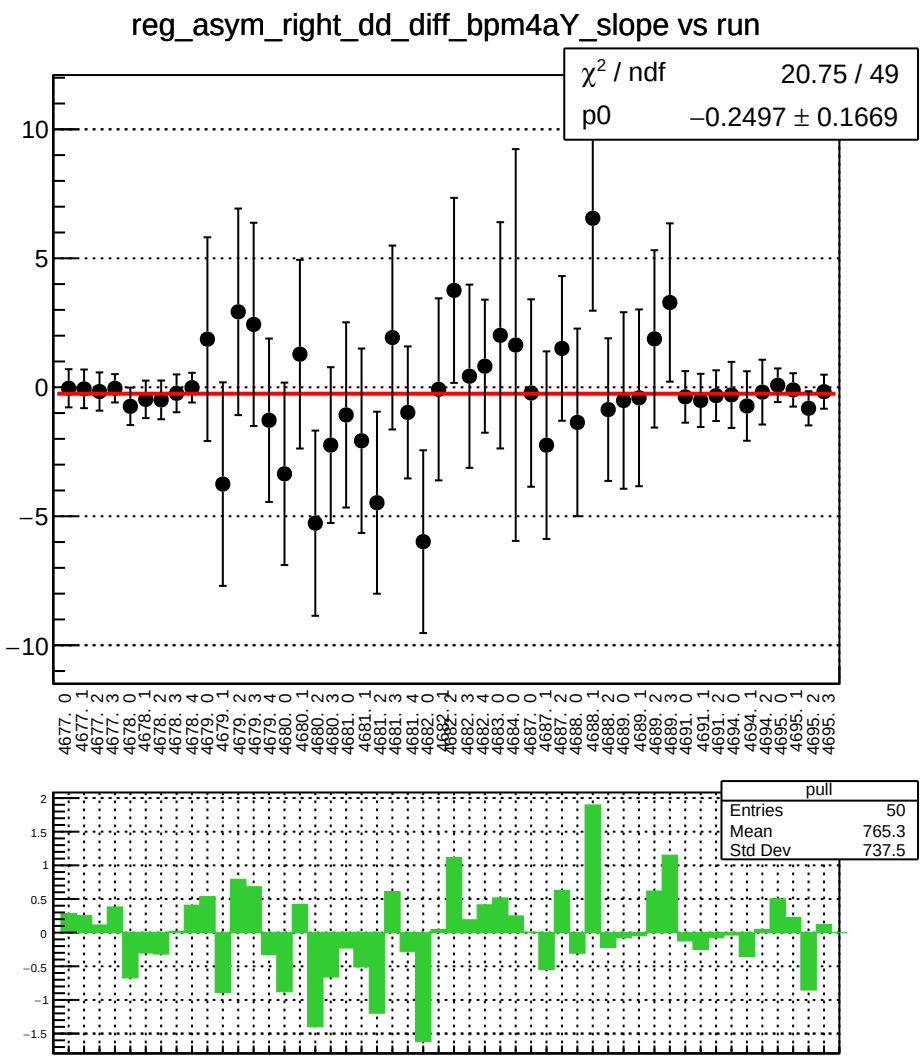

pull1D
Entries 50
Mean −0.2832
Std Dev 1.059

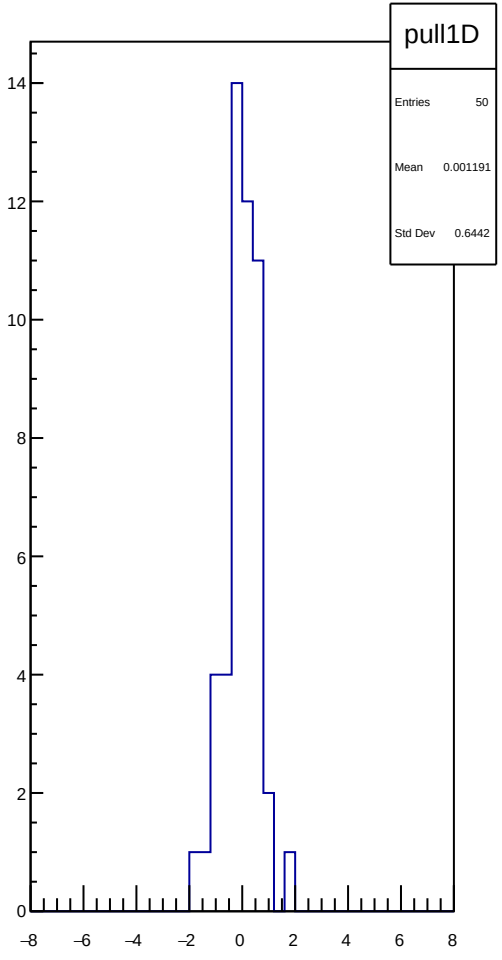

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 2.77e+04 / 49
p0 −3.307 ± 0.08138
pull
Entries 50
Mean 23.19
Std Dev 24.19

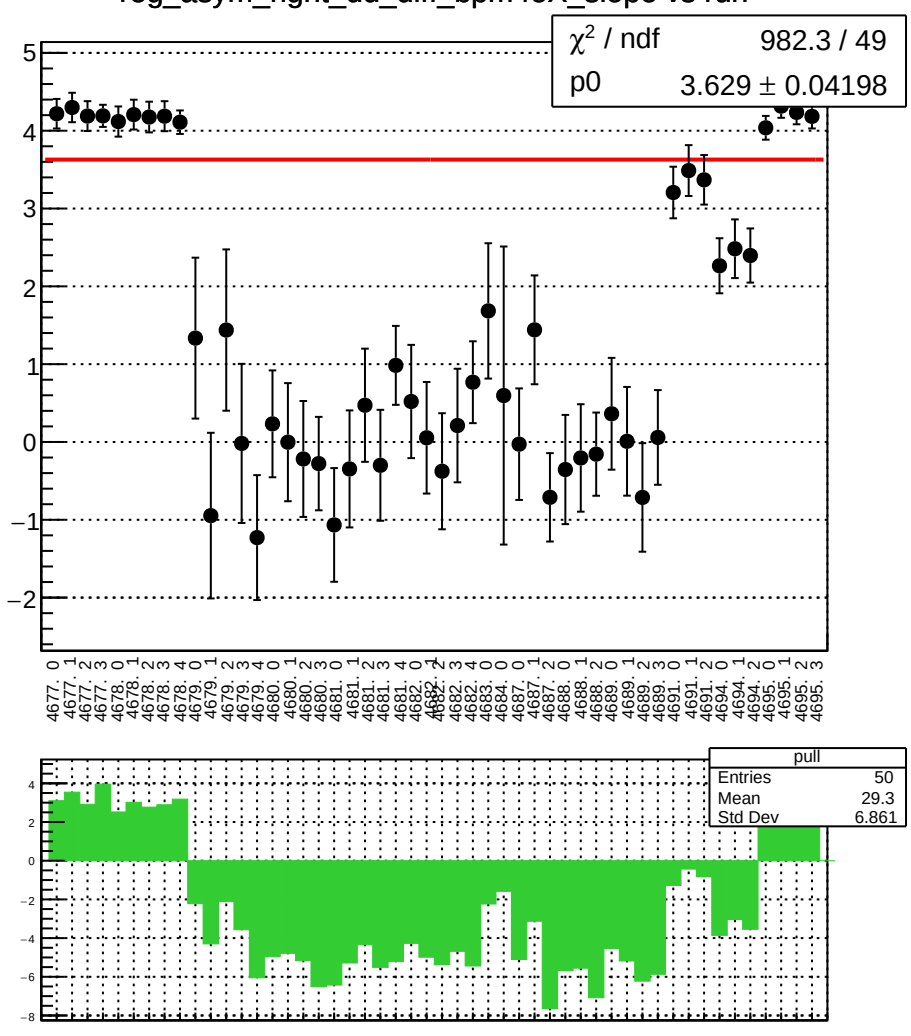

pull1D
Entries 50
Mean 6.365
Std Dev 1.38

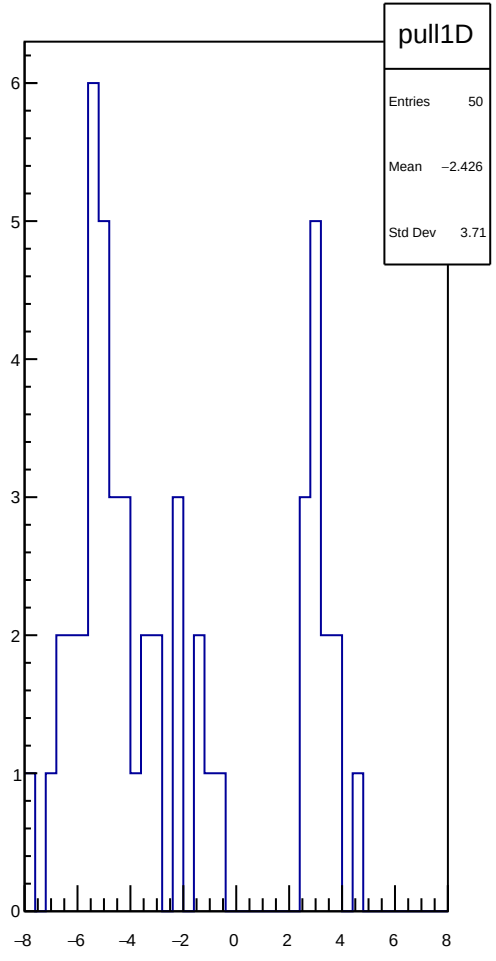

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 78.4 / 49
p0 −0.8293 ± 0.1764
pull
Entries 50
Mean 51.36
Std Dev 23.15

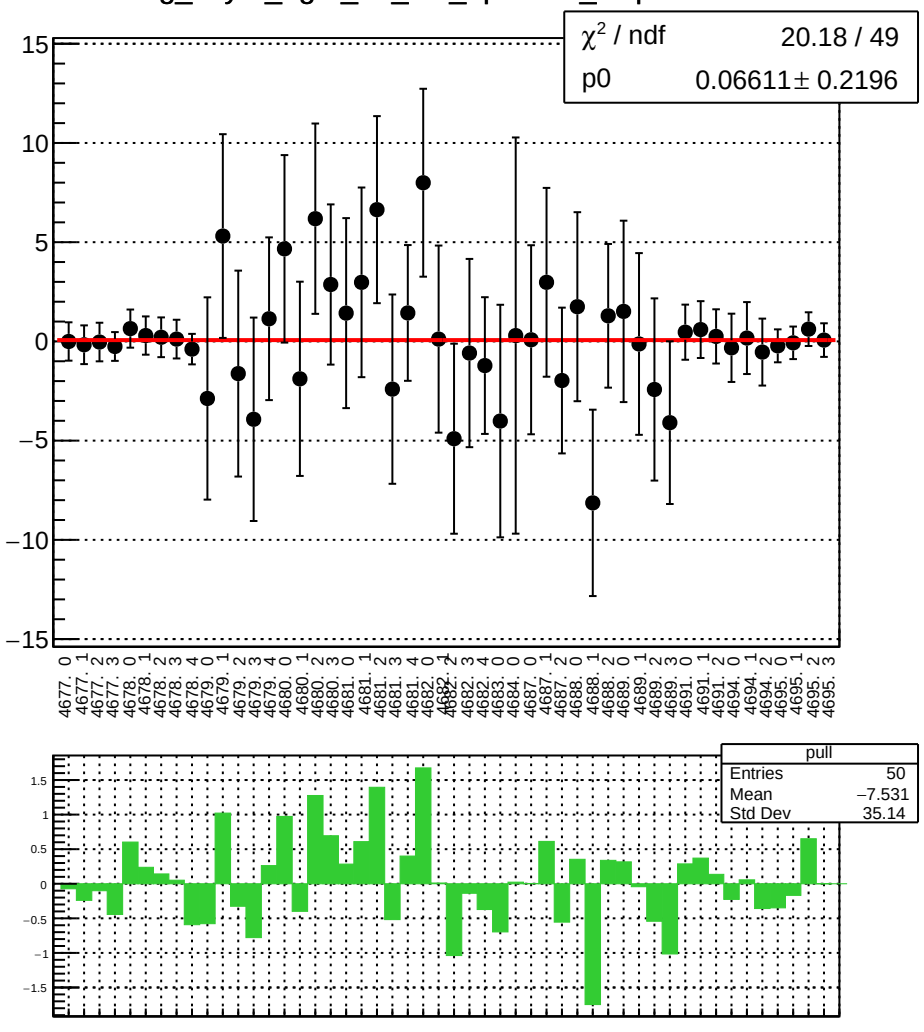

pull1D
Entries 50
Mean 0.1917
Std Dev 1.237

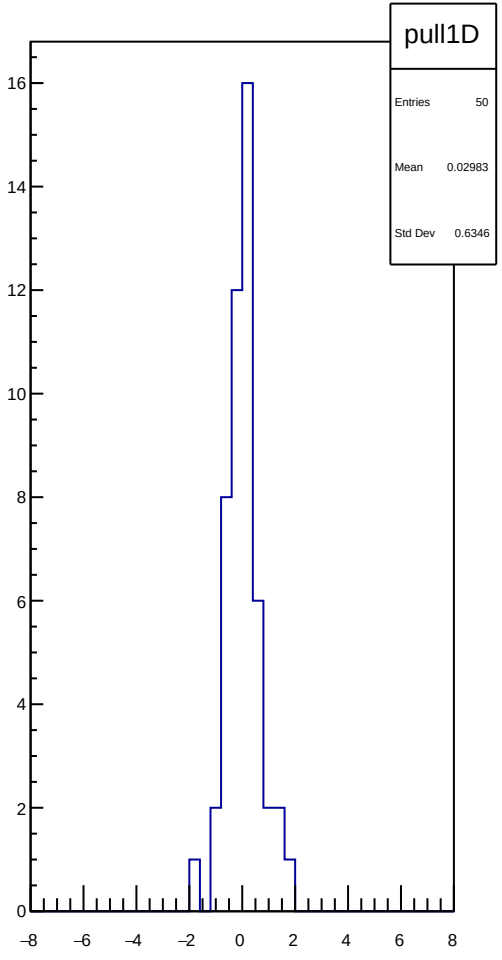

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.75 / 49
p0 −0.2497 ± 0.1669
pull
Entries 50
Mean 765.3
Std Dev 737.5

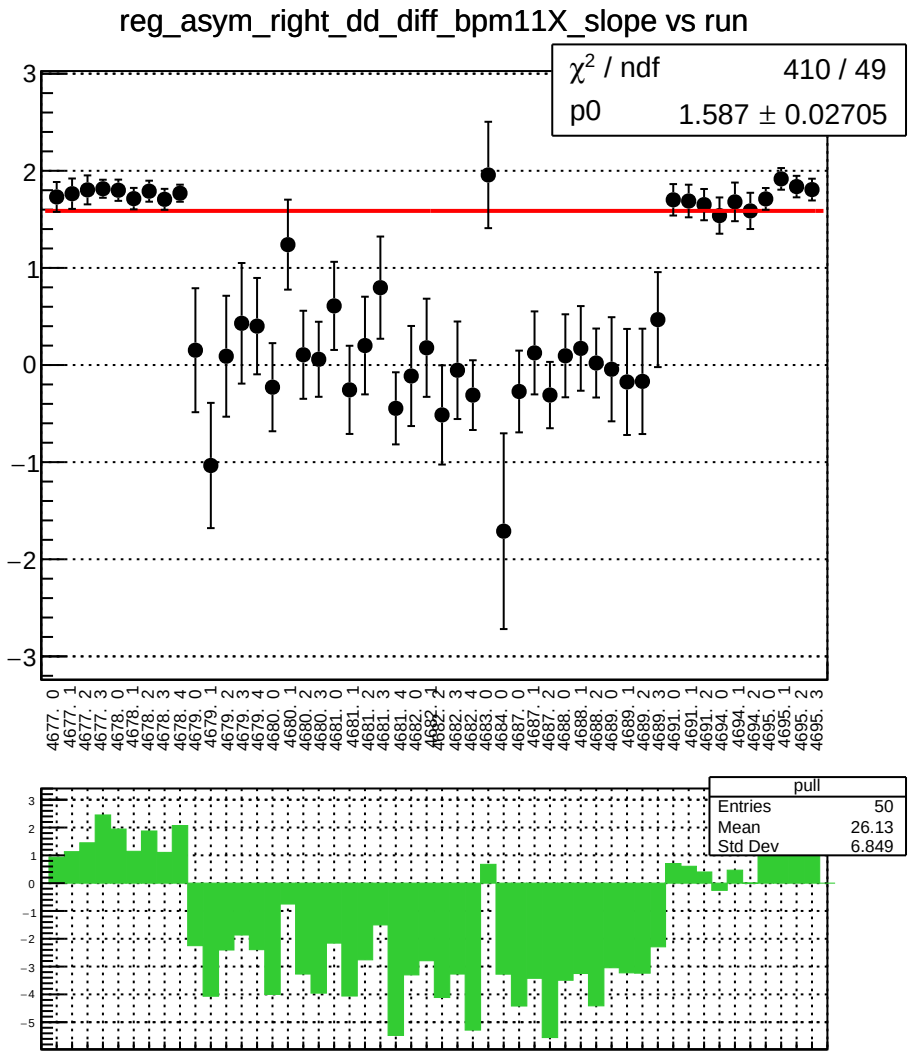

pull1D
Entries 50
Mean 0.001191
Std Dev 0.6442

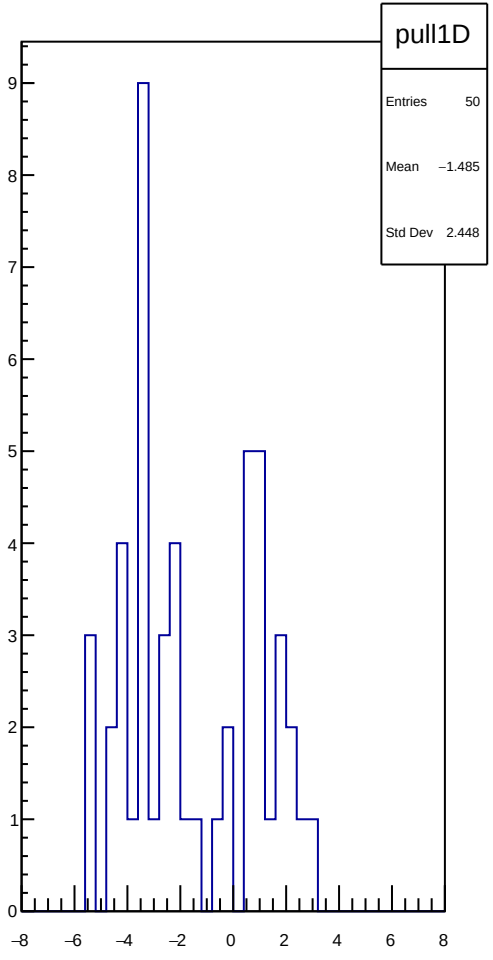

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 982.3 / 49
p0 3.629 ± 0.04198
pull
Entries 50
Mean 29.3
Std Dev 6.861

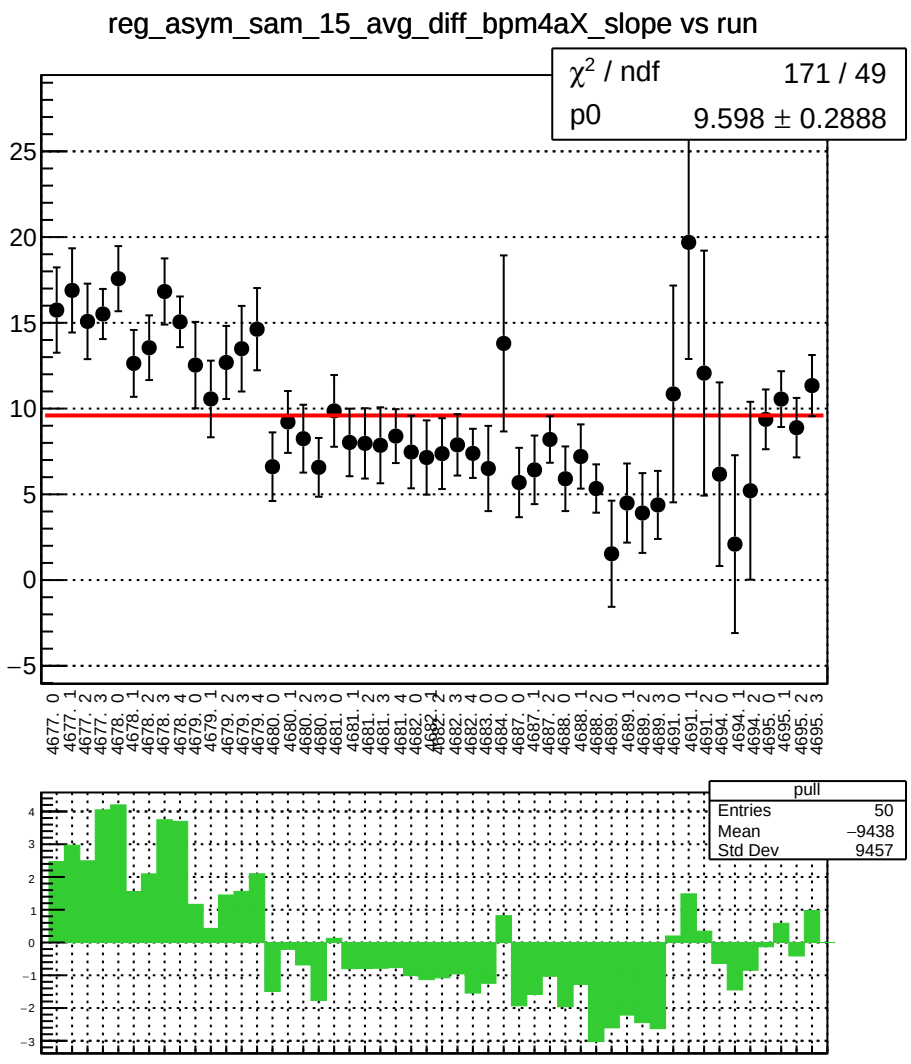

pull1D
Entries 50
Mean −2.426
Std Dev 3.71

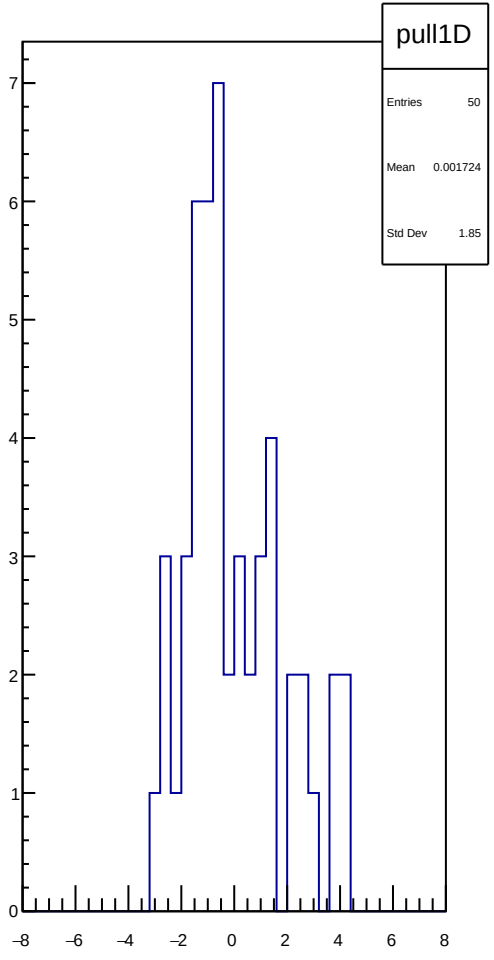

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.18 / 49
p0 0.06611 ± 0.2196
pull
Entries 50
Mean −7.531
Std Dev 35.14

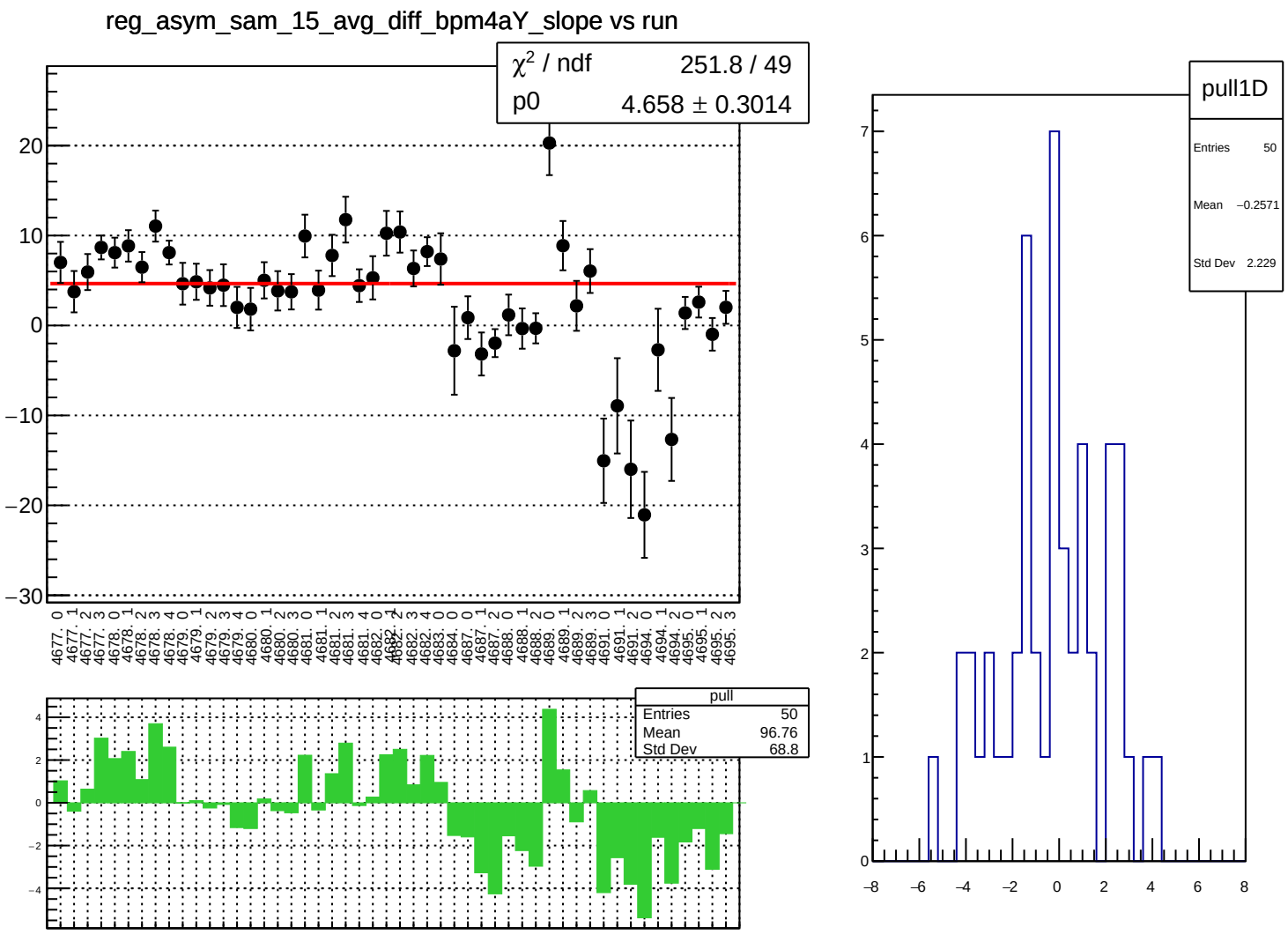

pull1D
Entries 50
Mean 0.02983
Std Dev 0.6346

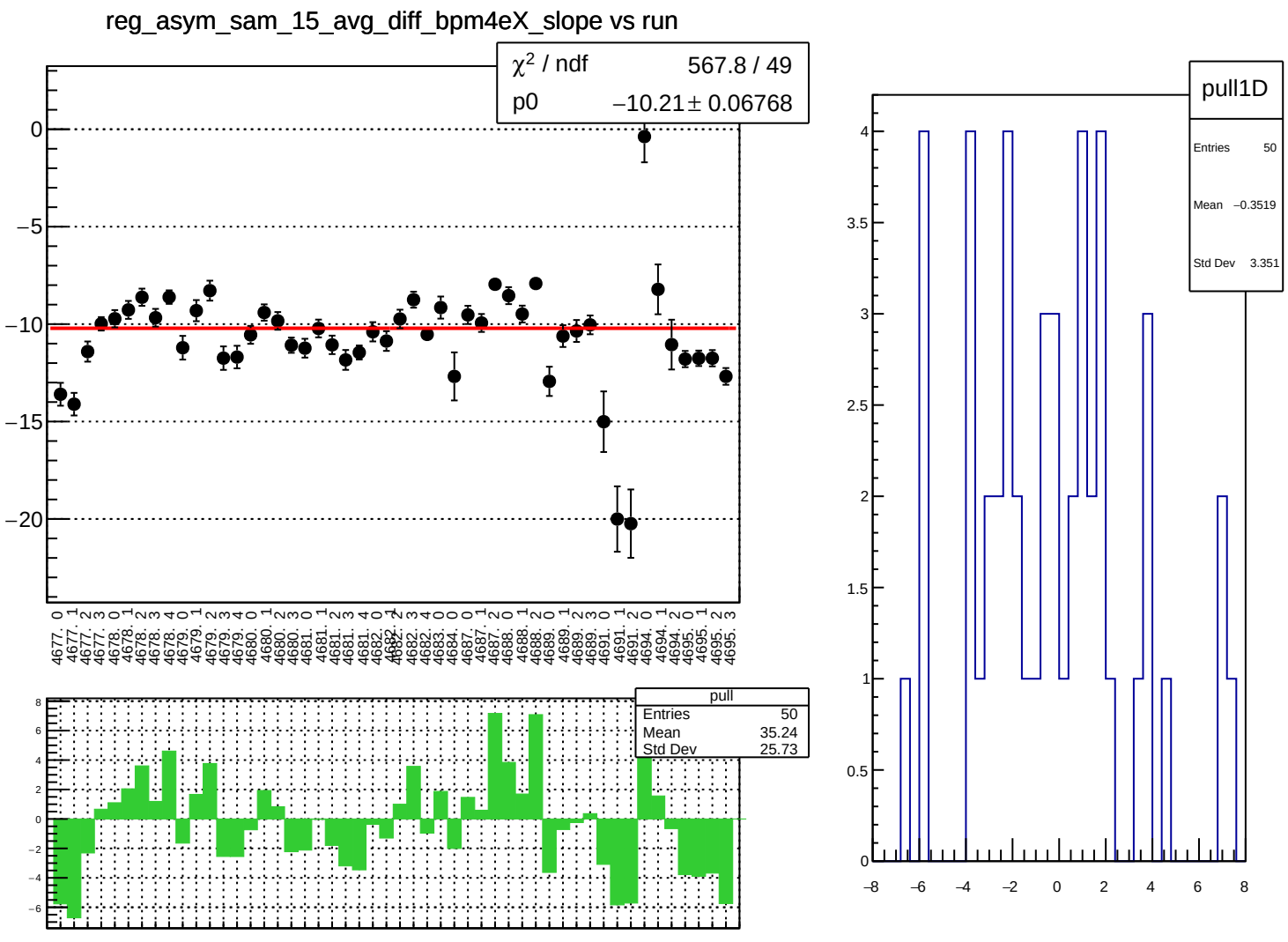

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 410 / 49
p0 1.587 ± 0.02705
pull
Entries 50
Mean 26.13
Std Dev 6.849

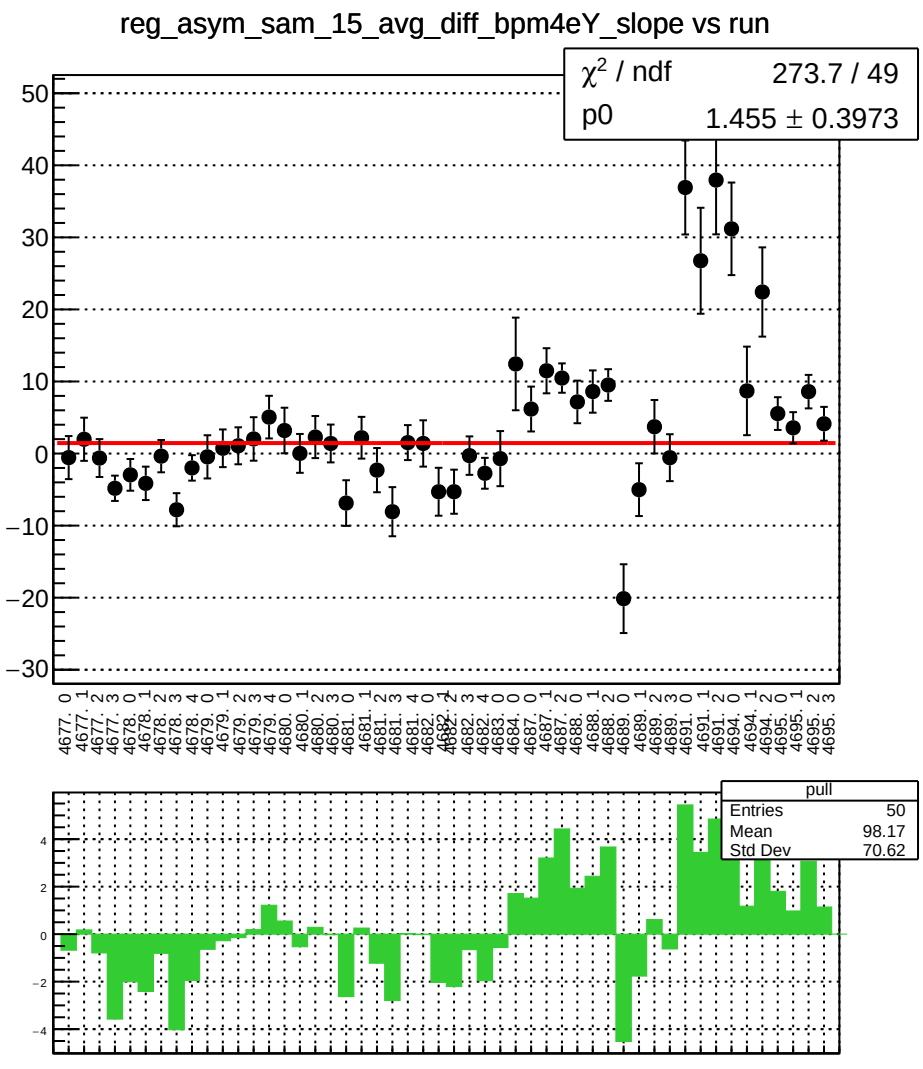

pull1D
Entries 50
Mean −1.485
Std Dev 2.448

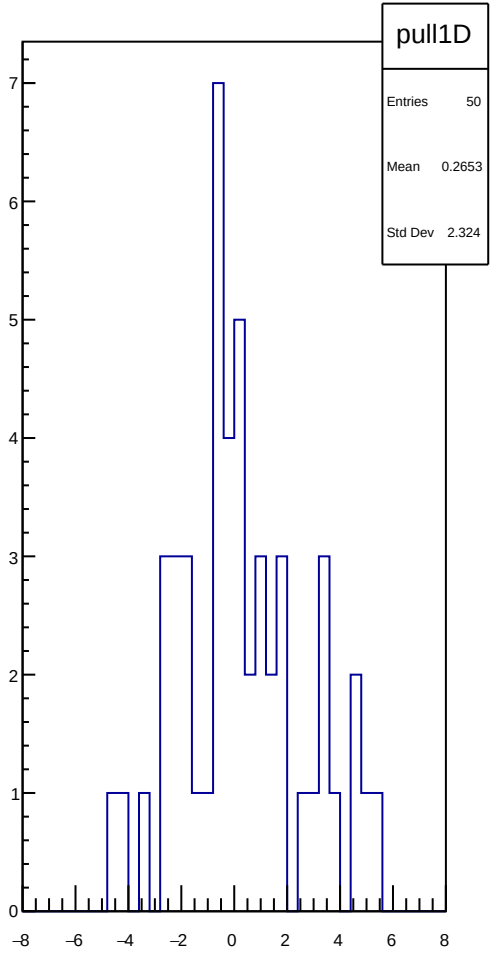

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 171 / 49
p0 9.598 ± 0.2888
pull
Entries 50
Mean −9438
Std Dev 9457

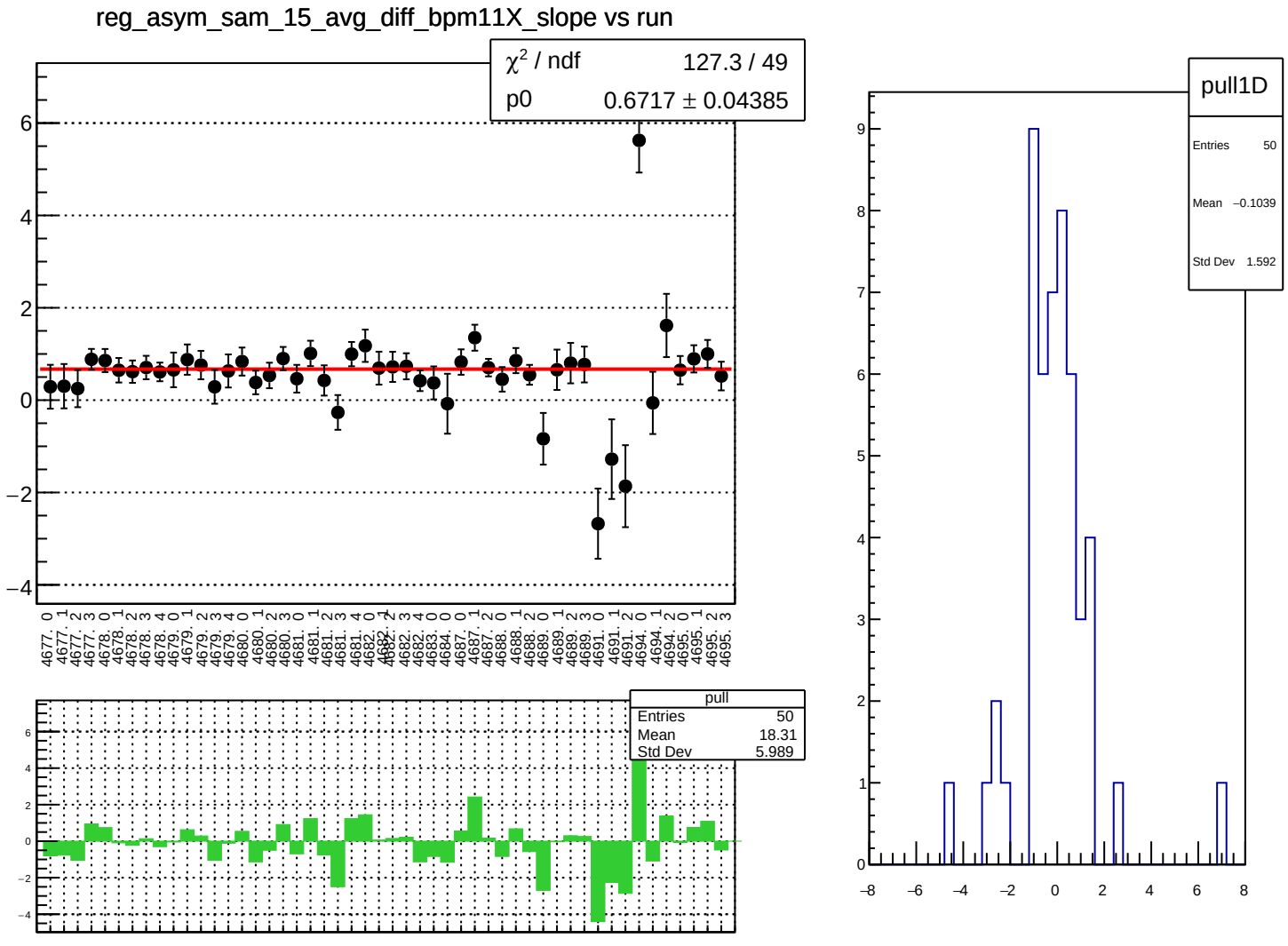

pull1D
Entries 50
Mean 0.001724
Std Dev 1.85

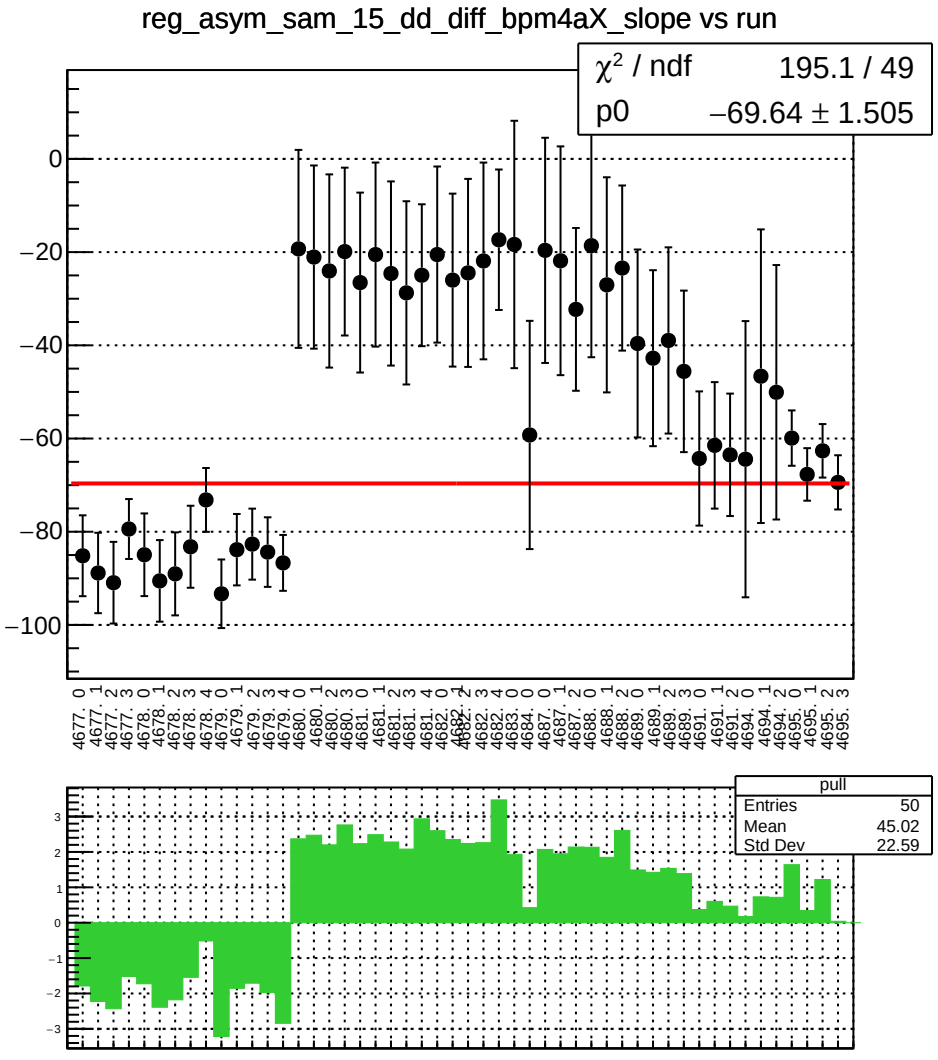

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 251.8 / 49
p0 4.658 ± 0.3014
pull
Entries 50
Mean 96.76
Std Dev 68.8
pull1D
Entries 50
Mean −0.2571
Std Dev 2.229

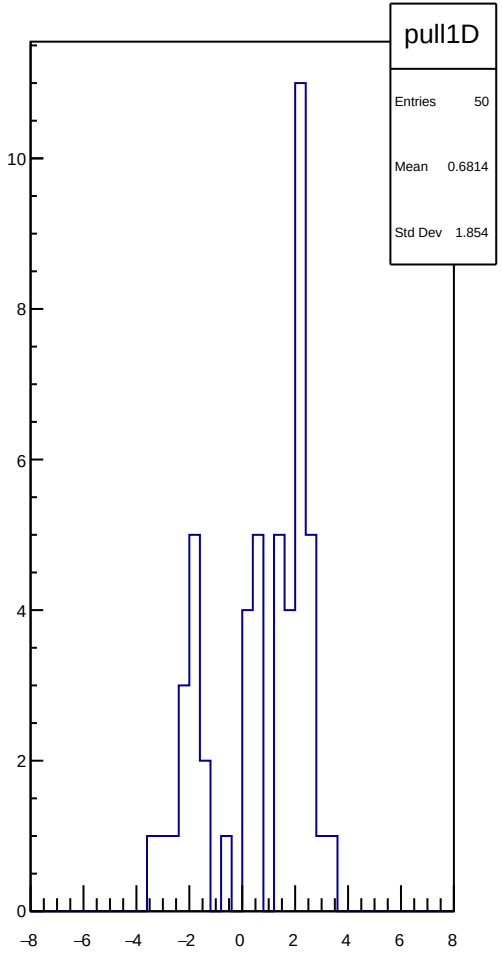

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 567.8 / 49
p0 −10.21 ± 0.06768
pull
Entries 50
Mean 35.24
Std Dev 25.73
pull1D
Entries 50
Mean −0.3519
Std Dev 3.351

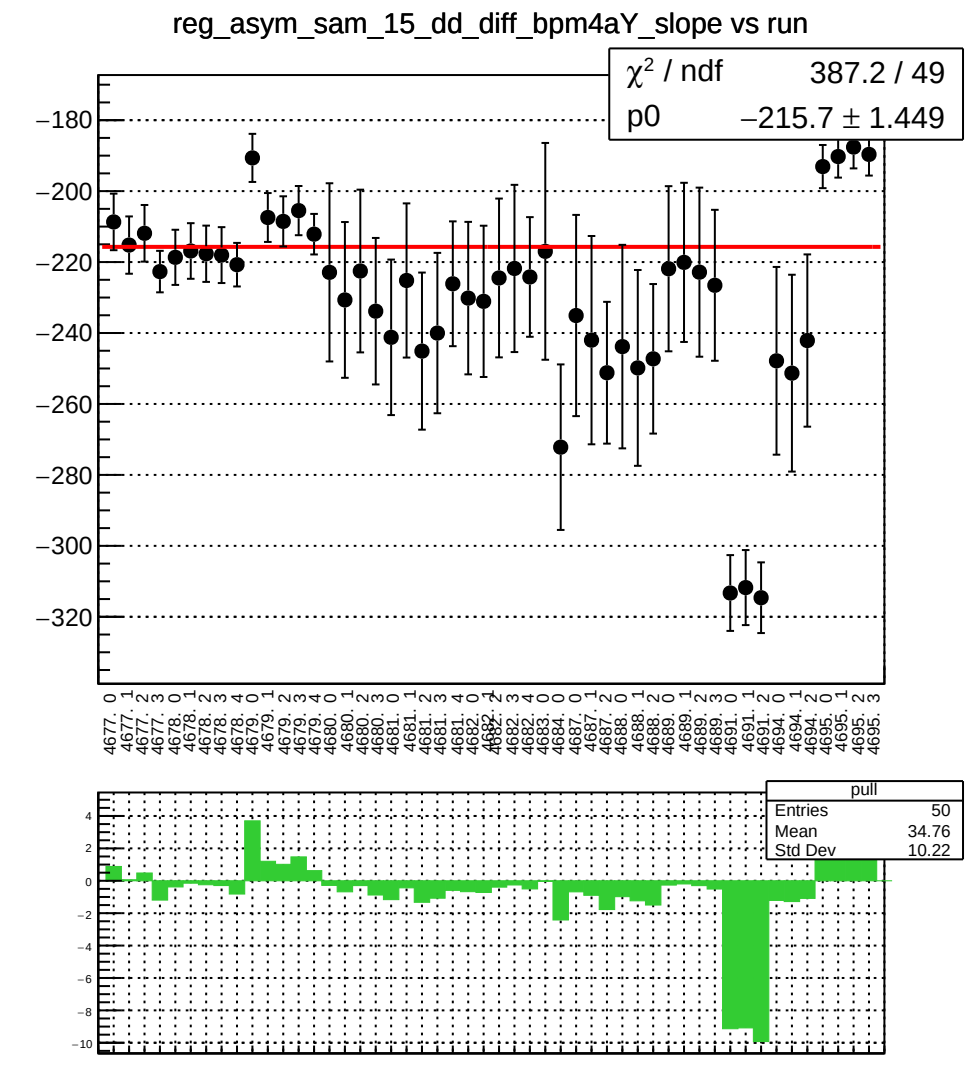

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 273.7 / 49
p0 1.455 ± 0.3973
pull
Entries 50
Mean 98.17
Std Dev 70.62

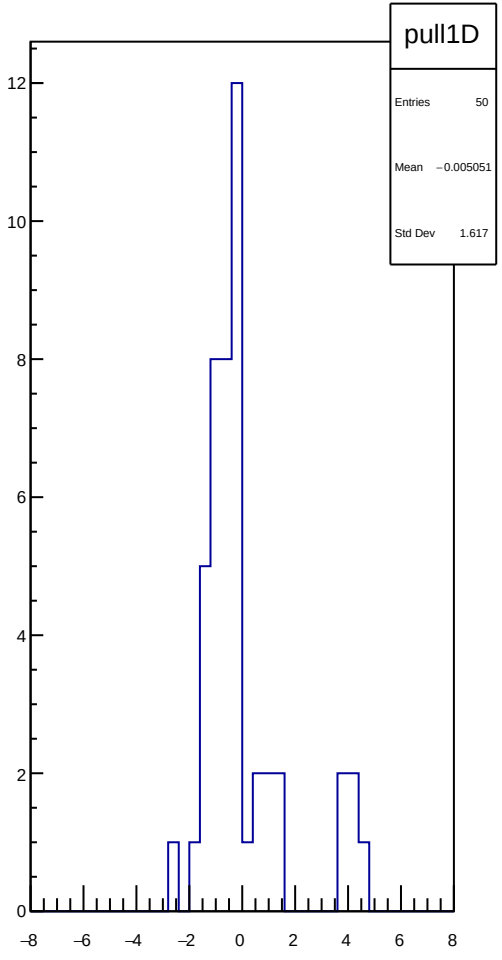

pull1D
Entries 50
Mean 0.2653
Std Dev 2.324

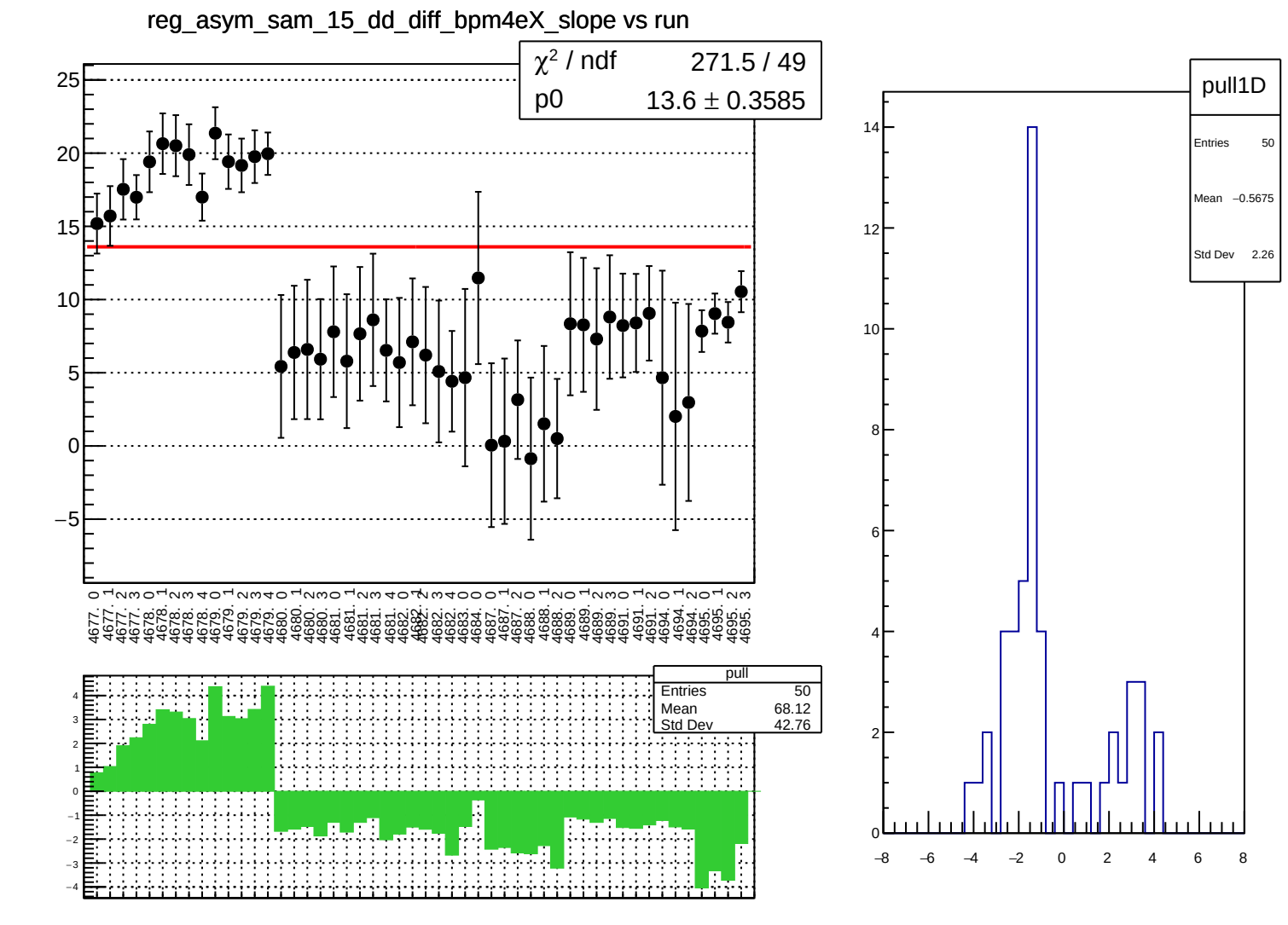

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 127.3 / 49
p0 0.6717 ± 0.04385
pull
Entries 50
Mean 18.31
Std Dev 5.989
pull1D
Entries 50
Mean −0.1039
Std Dev 1.592

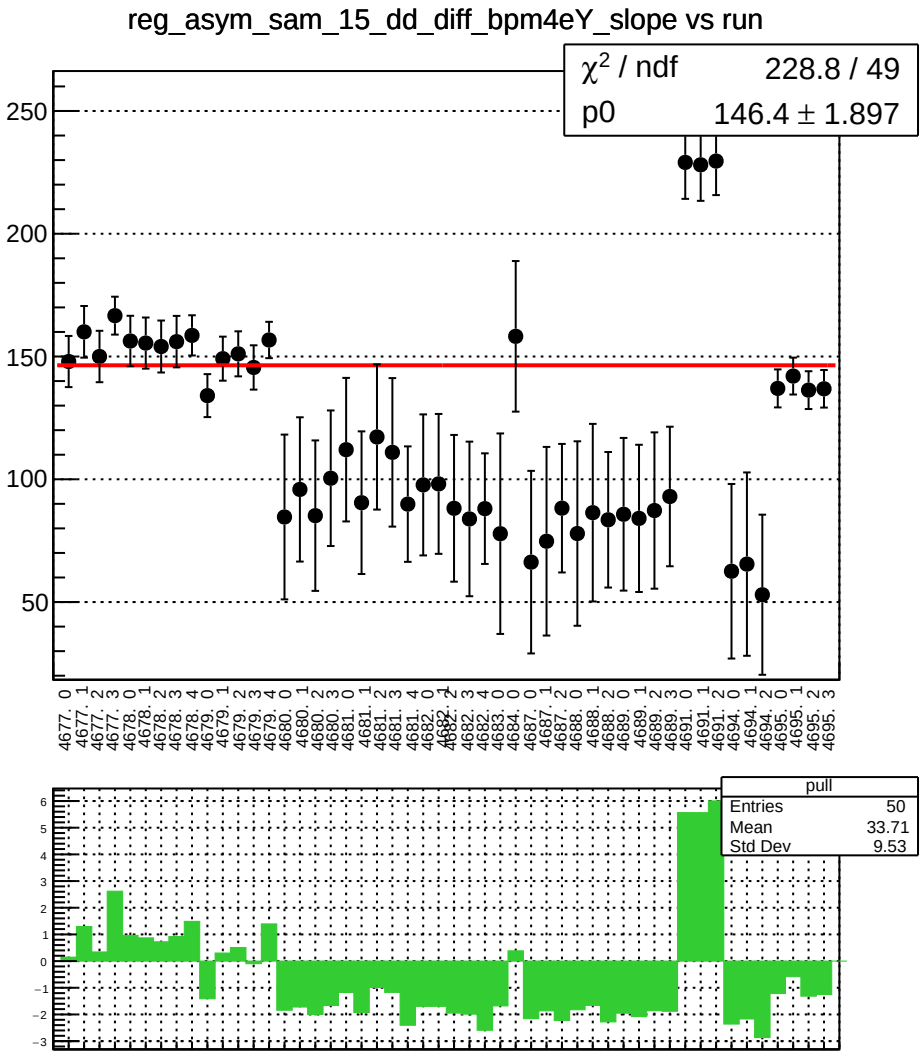

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 195.1 / 49
p0 −69.64 ± 1.505
pull
Entries 50
Mean 45.02
Std Dev 22.59

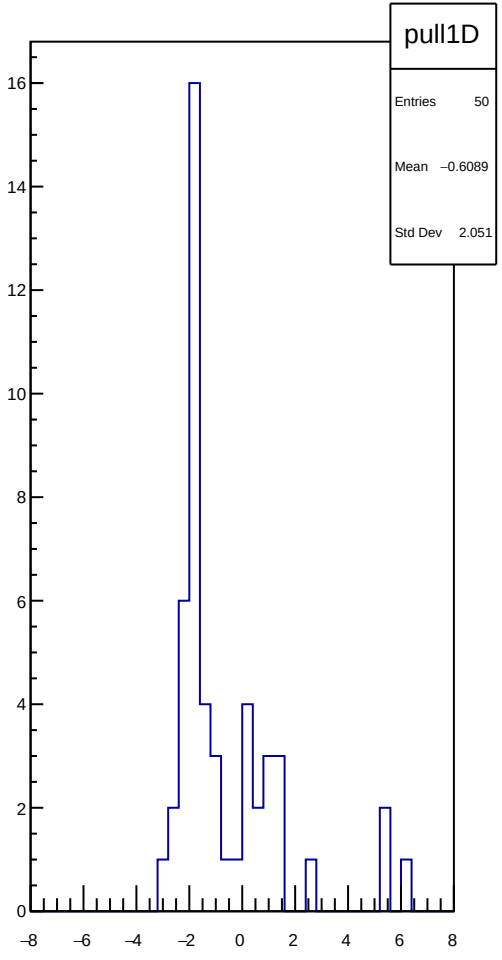

pull1D
Entries 50
Mean 0.6814
Std Dev 1.854

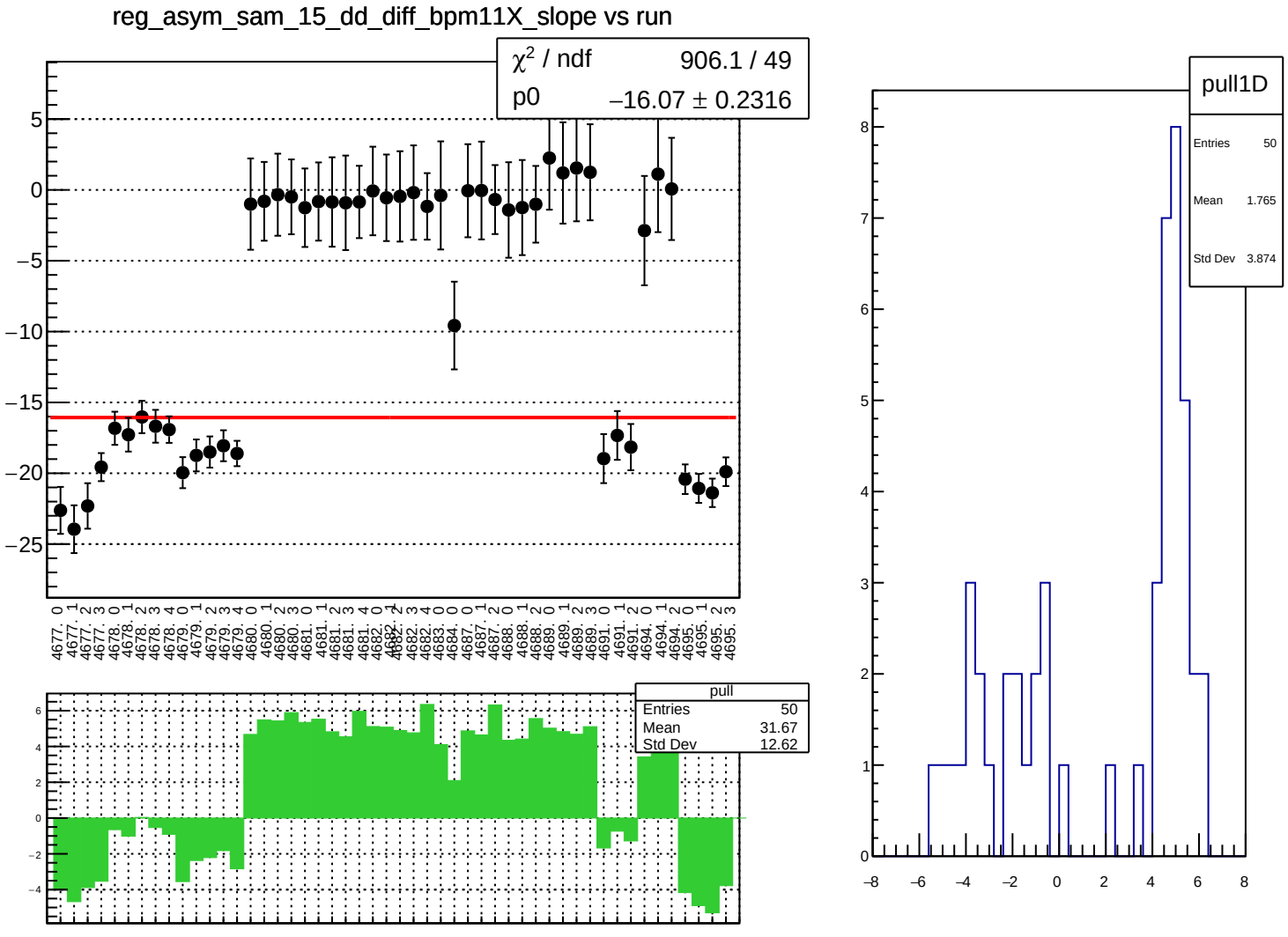

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 387.2 / 49
p0 −215.7 ± 1.449
pull
Entries 50
Mean 34.76
Std Dev 10.22

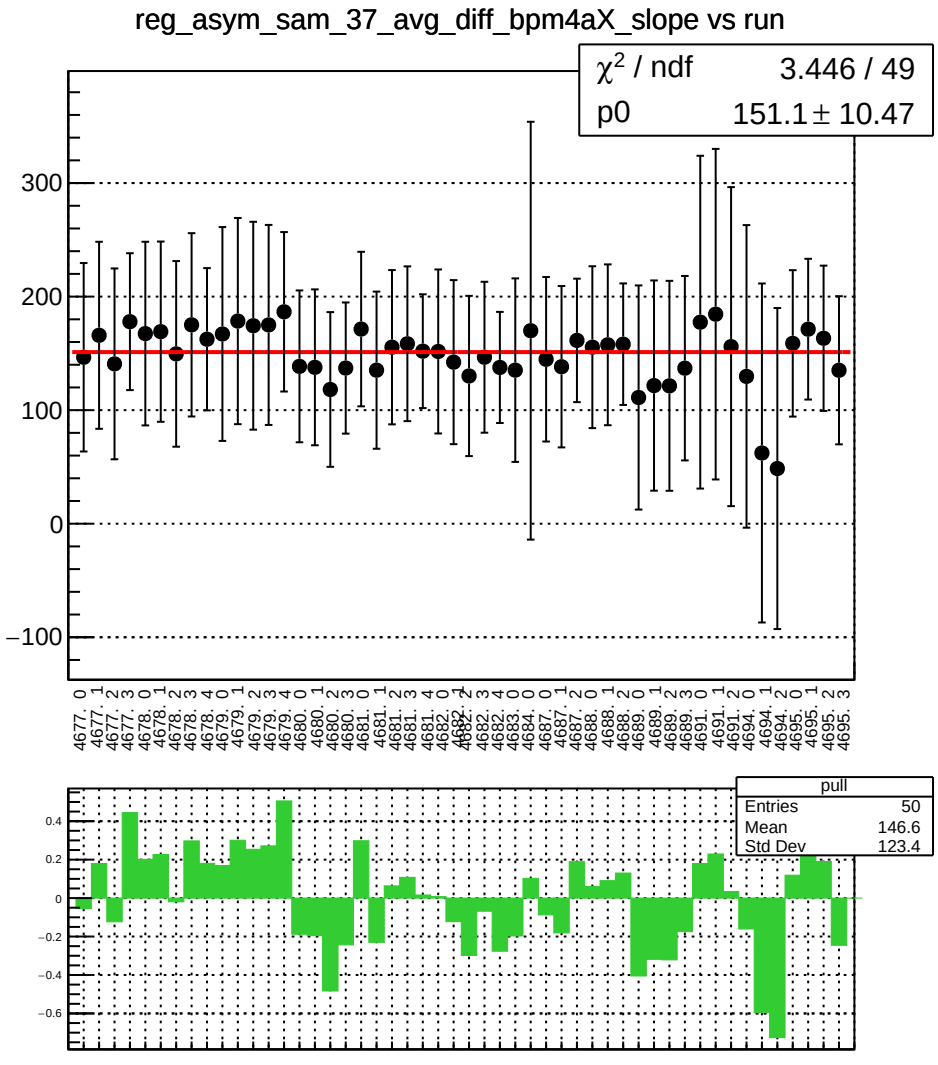

pull1D
Entries 50
Mean −0.005051
Std Dev 1.617

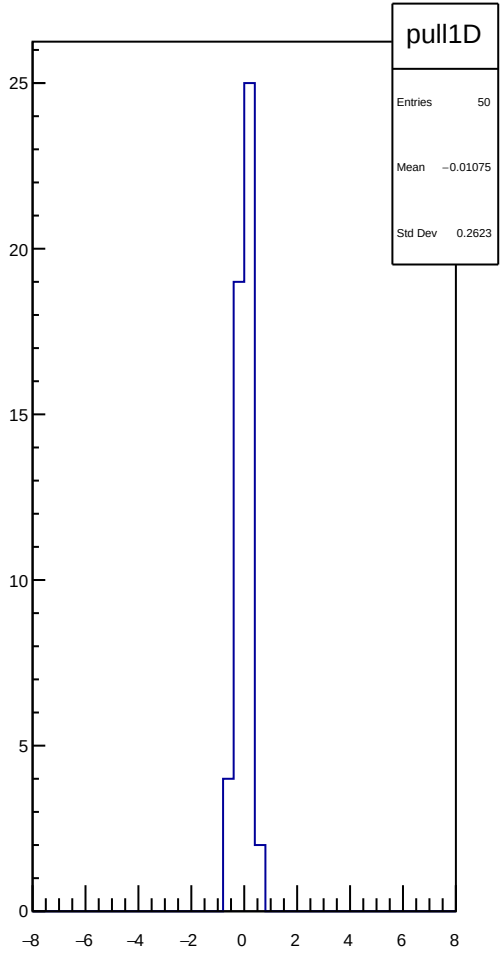

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 271.5 / 49
p0 13.6 ± 0.3585
pull
Entries 50
Mean 68.12
Std Dev 42.76
pull1D
Entries 50
Mean −0.5675
Std Dev 2.26

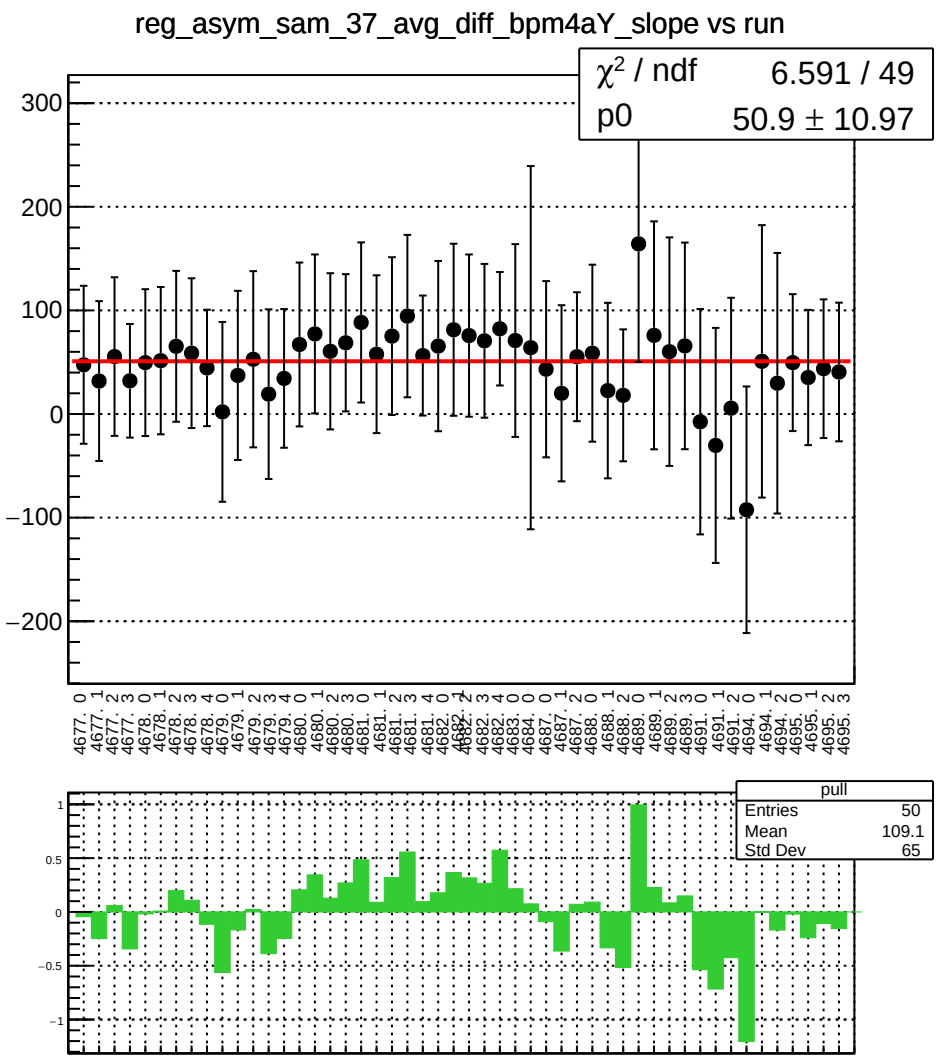

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 228.8 / 49
p0 146.4 ± 1.897
250
200
150
100
50
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 33.71
Std Dev 9.53
6
5
4
3
2
1
0
−1
−2
−3

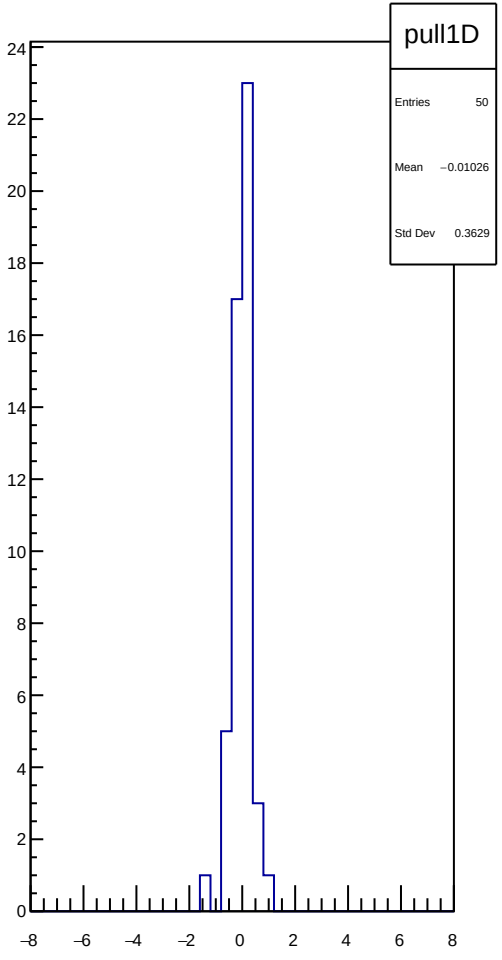

pull1D
Entries 50
Mean −0.6089
Std Dev 2.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

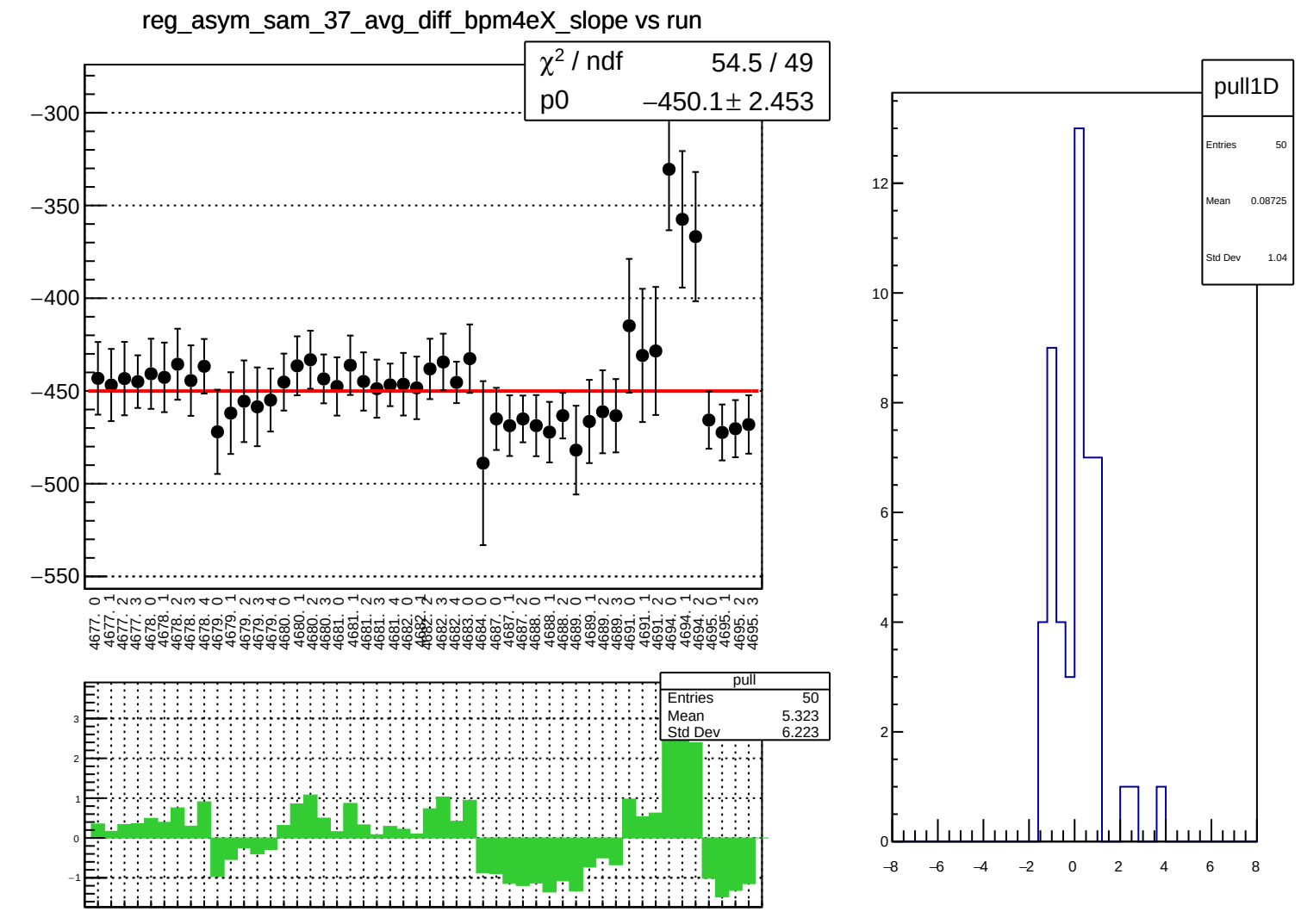

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 906.1 / 49
p0 −16.07 ± 0.2316
pull
Entries 50
Mean 31.67
Std Dev 12.62
pull1D
Entries 50
Mean 1.765
Std Dev 3.874

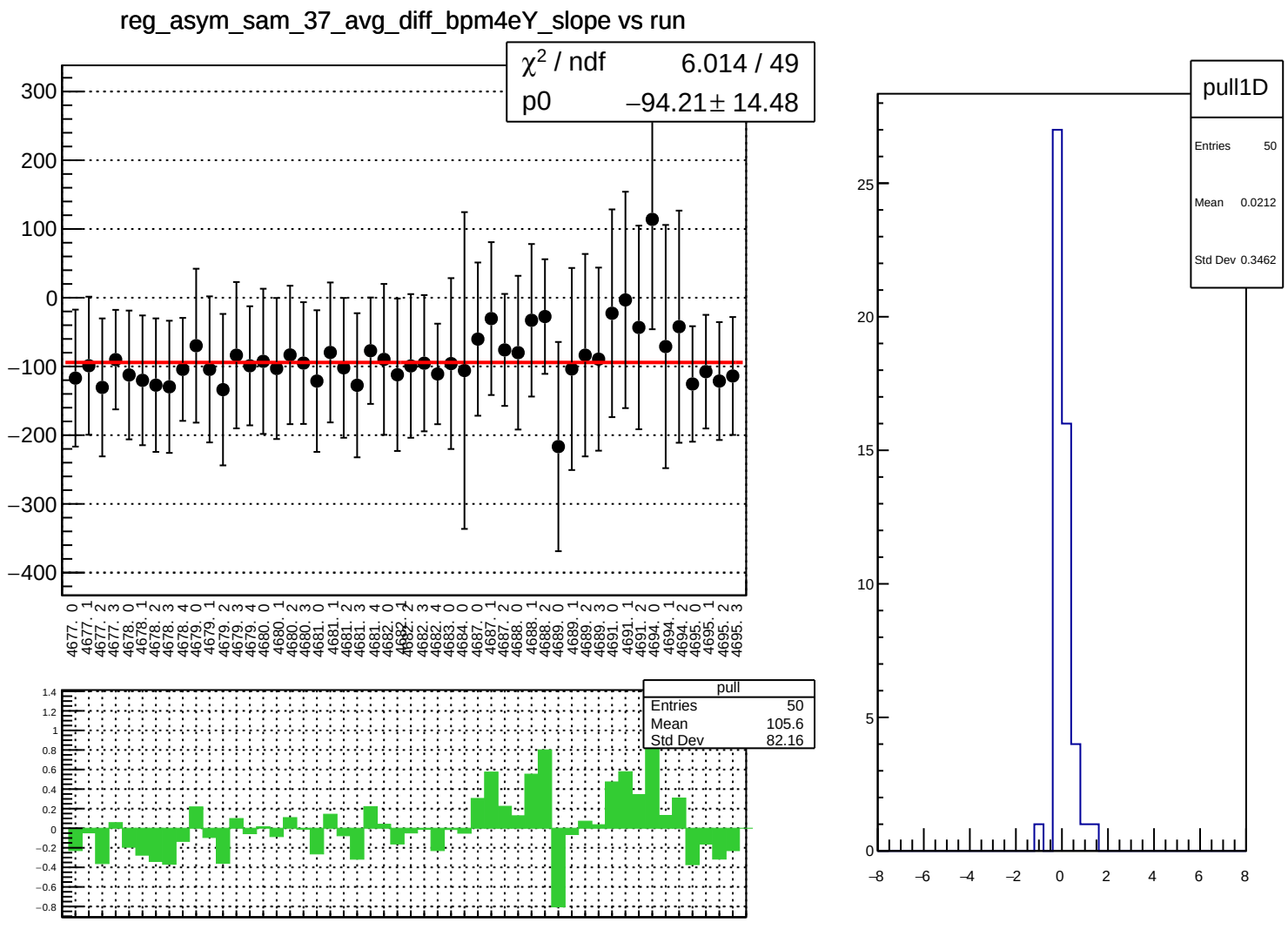

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 3.446 / 49
p0 151.1 ± 10.47
300
200
100
0
−100
pull
Entries 50
Mean 146.6
Std Dev 123.4
0.4
0.2
0
−0.2
−0.4
−0.6

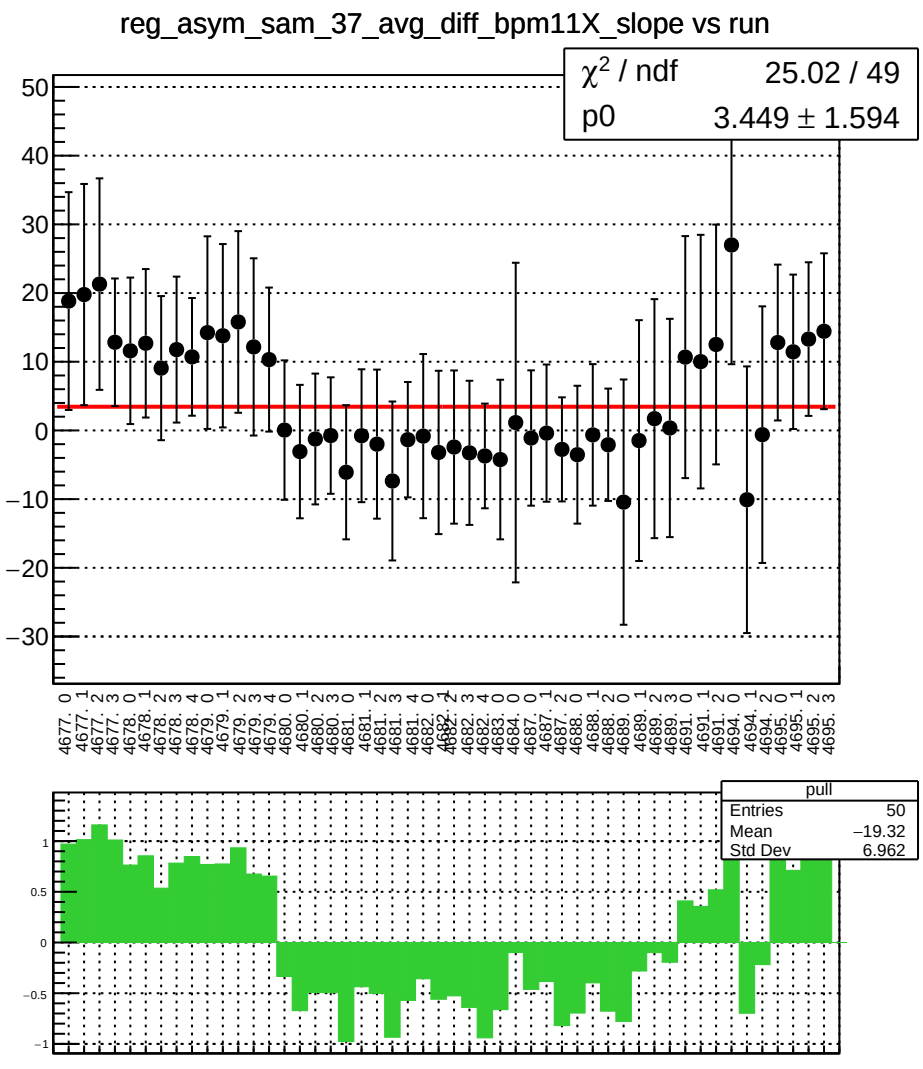

pull1D
Entries 50
Mean −0.01075
Std Dev 0.2623
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

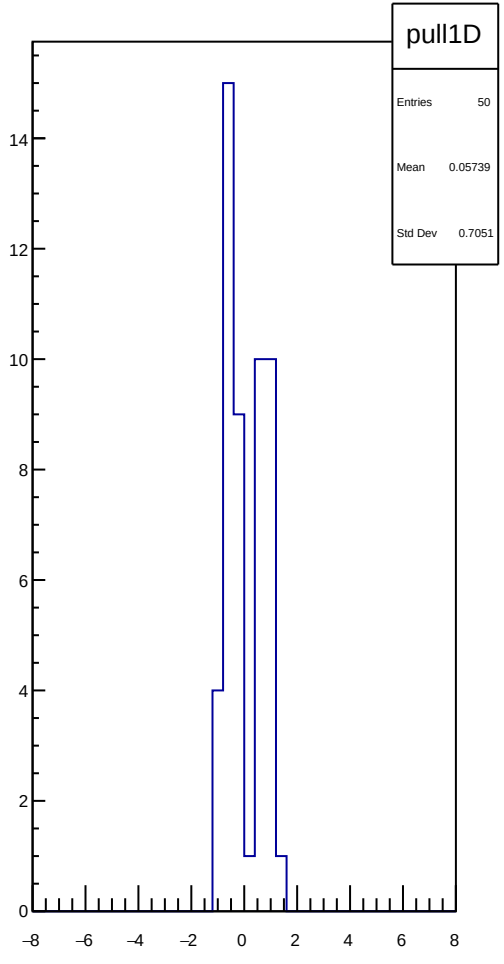

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.591 / 49
p0 50.9 ± 10.97
pull
Entries 50
Mean 109.1
Std Dev 65

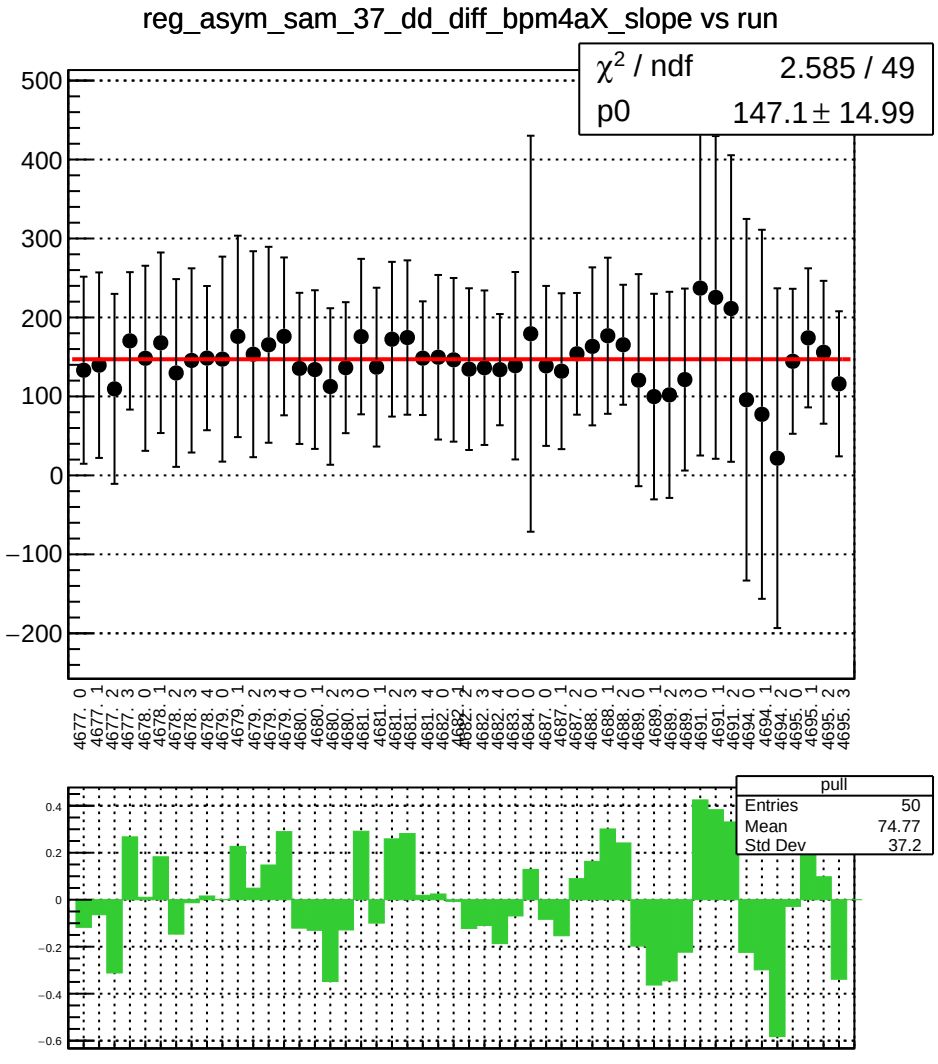

pull1D
Entries 50
Mean −0.01026
Std Dev 0.3629

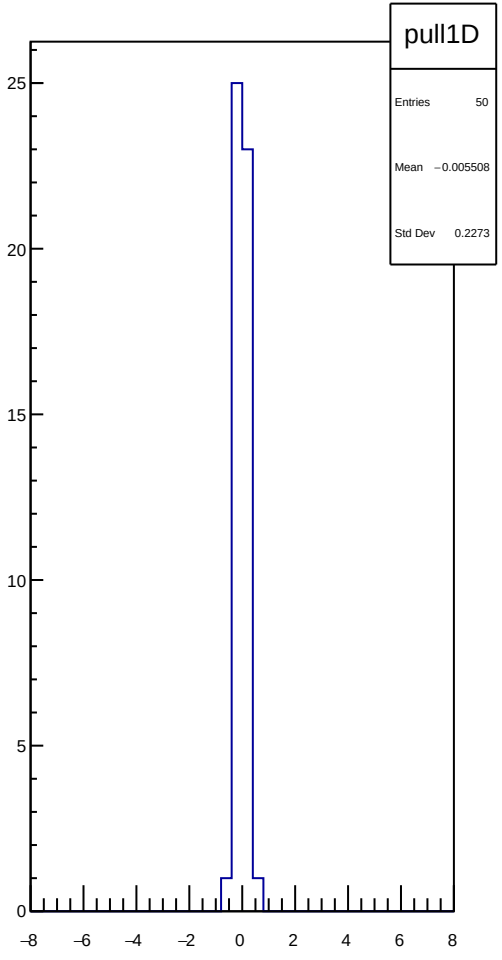

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 54.5 / 49
p0 −450.1± 2.453
pull
Entries 50
Mean 5.323
Std Dev 6.223
pull1D
Entries 50
Mean 0.08725
Std Dev 1.04

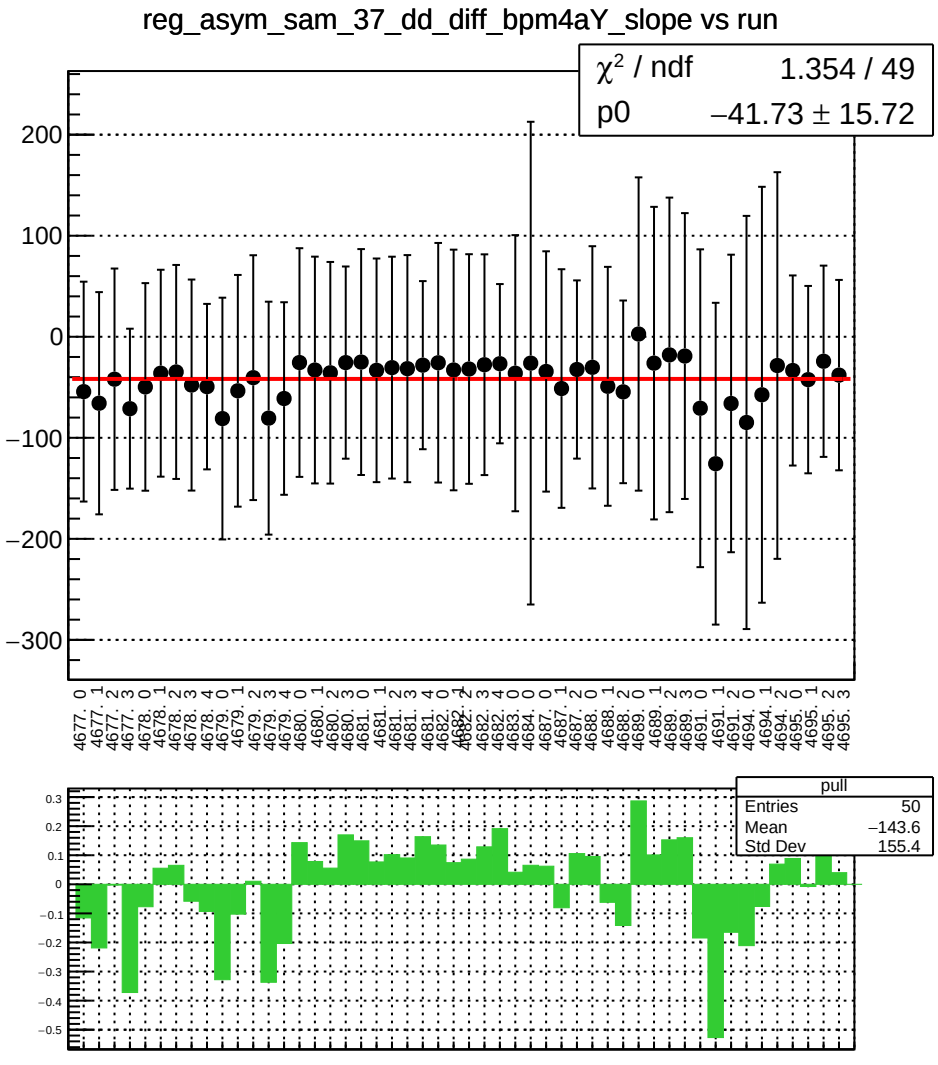

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.014 / 49
p0 −94.21 ± 14.48
pull
Entries 50
Mean 105.6
Std Dev 82.16
pull1D
Entries 50
Mean 0.0212
Std Dev 0.3462

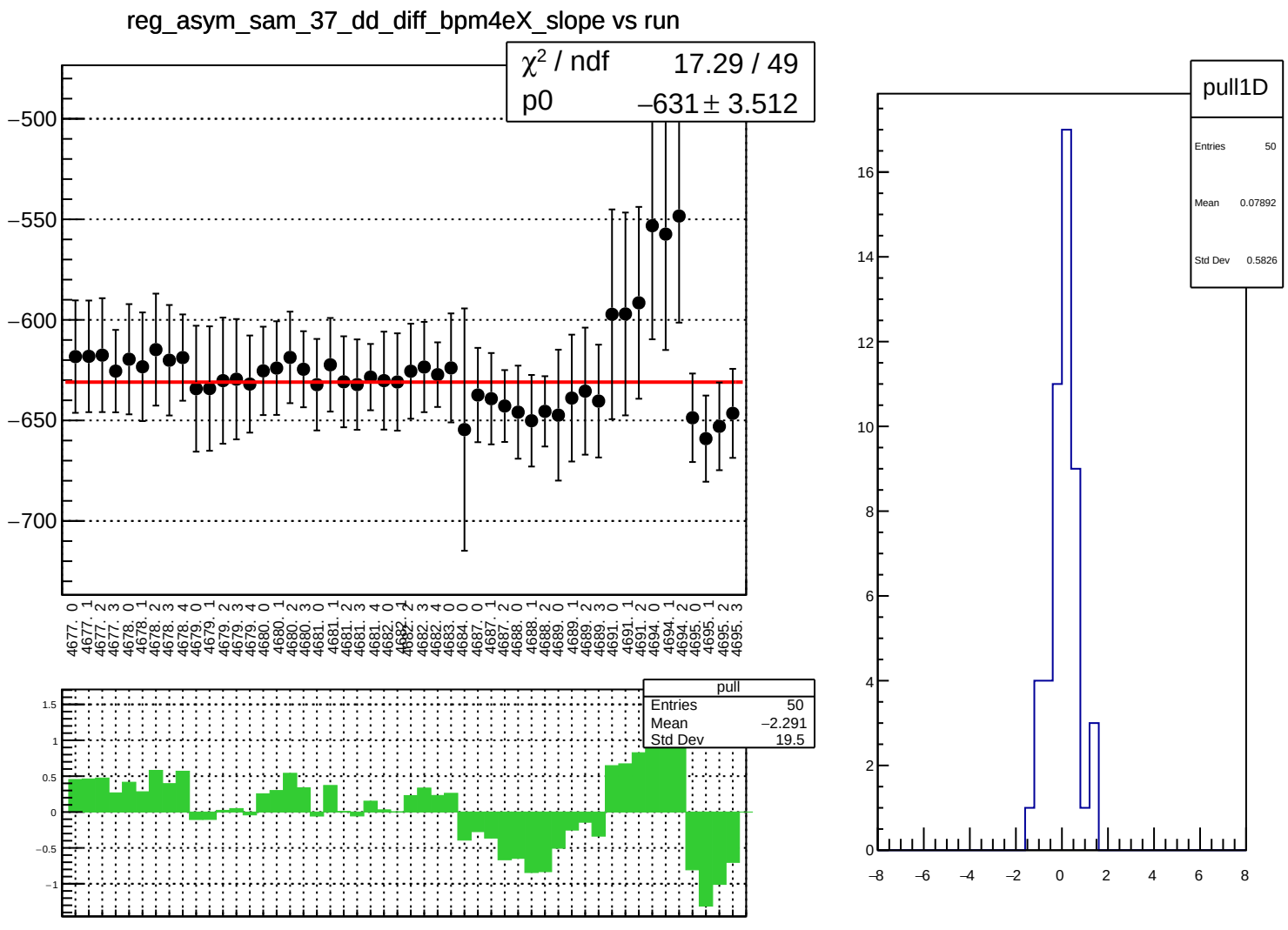

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 25.02 / 49
p0 3.449 ± 1.594
pull
Entries 50
Mean −19.32
Std Dev 6.962

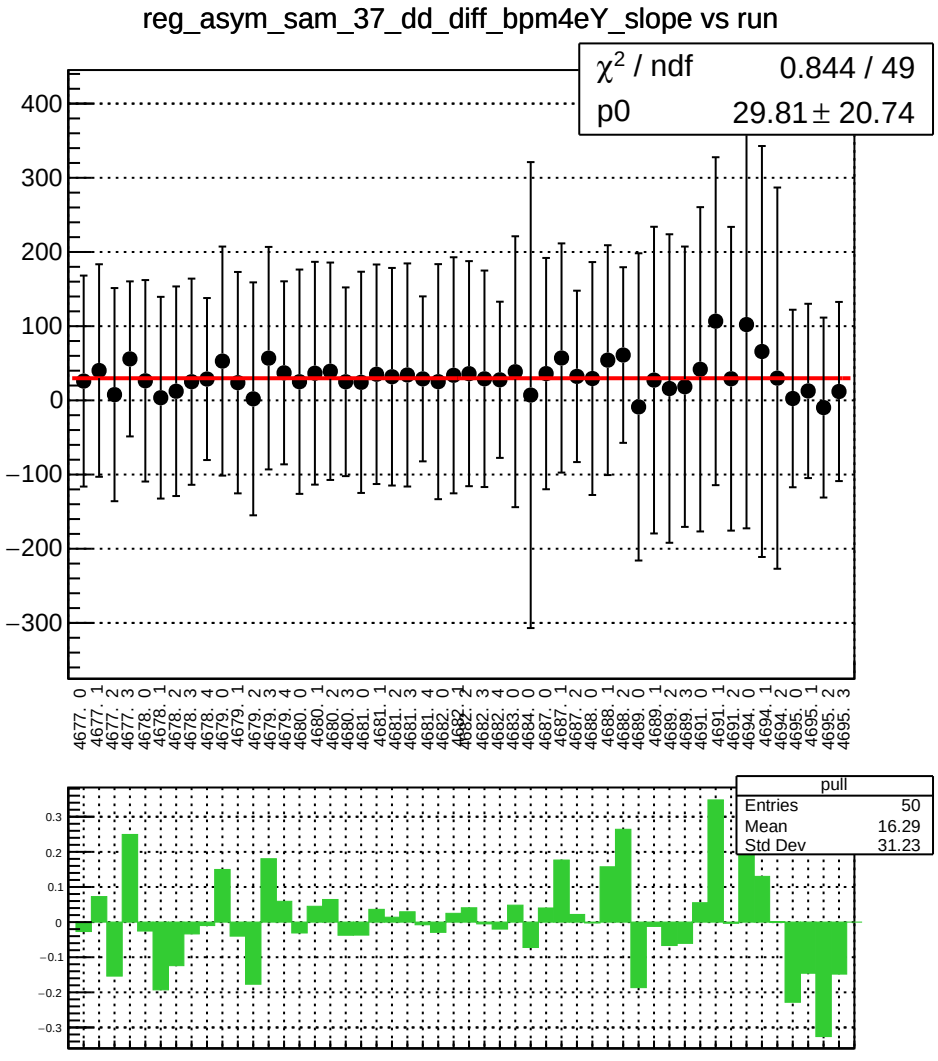

pull1D
Entries 50
Mean 0.05739
Std Dev 0.7051

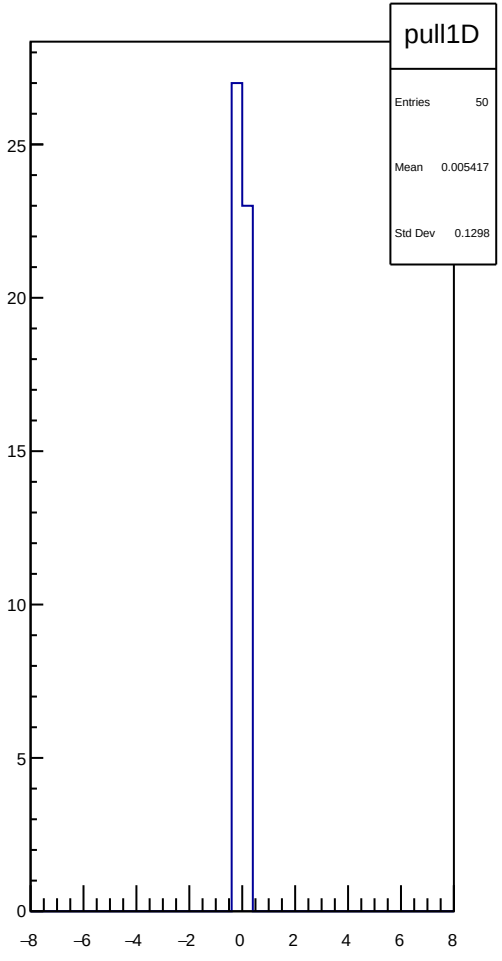

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.585 / 49
p0 147.1 ± 14.99
pull
Entries 50
Mean 74.77
Std Dev 37.2

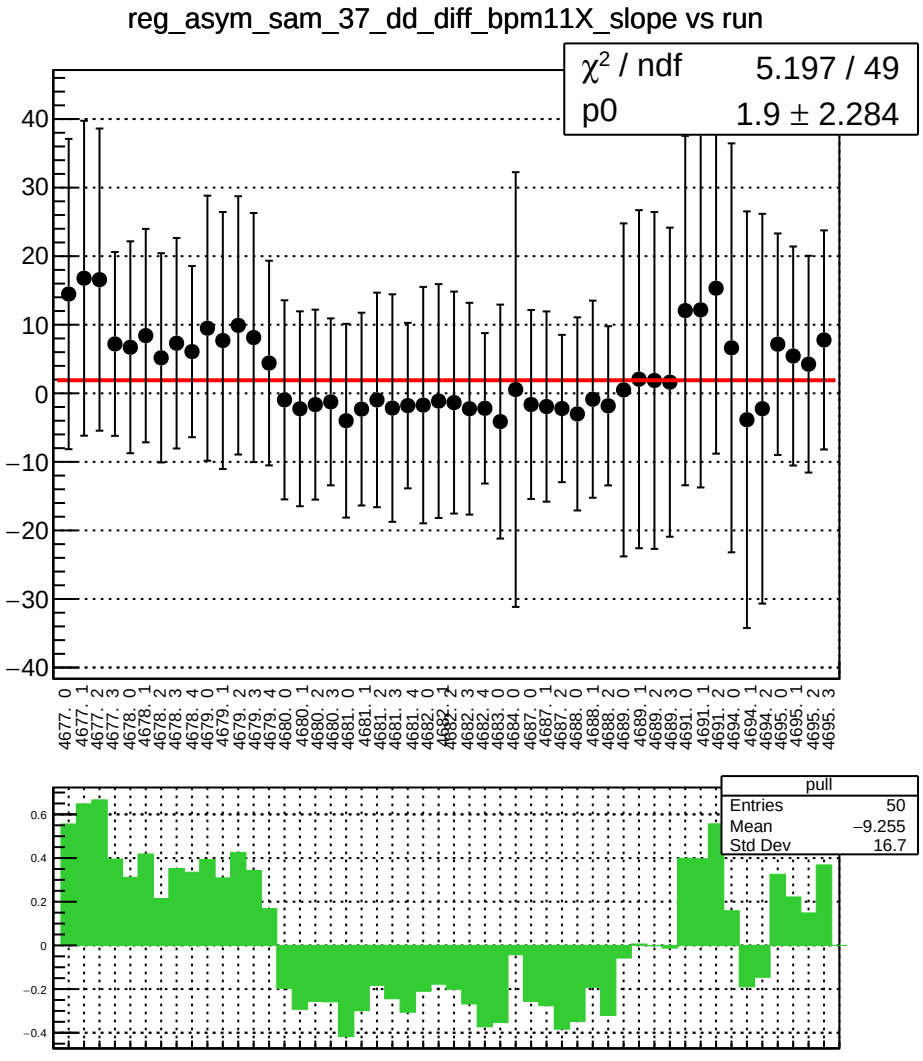

pull1D
Entries 50
Mean −0.005508
Std Dev 0.2273

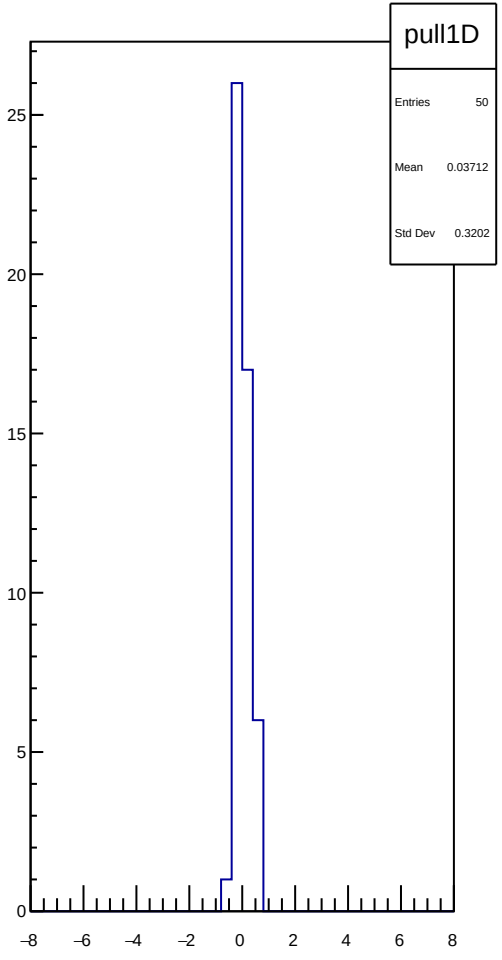

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.354 / 49
p0 −41.73 ± 15.72
200
100
0
−100
−200
−300
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean −143.6
Std Dev 155.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 50
Mean −0.002627
Std Dev 0.1645
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

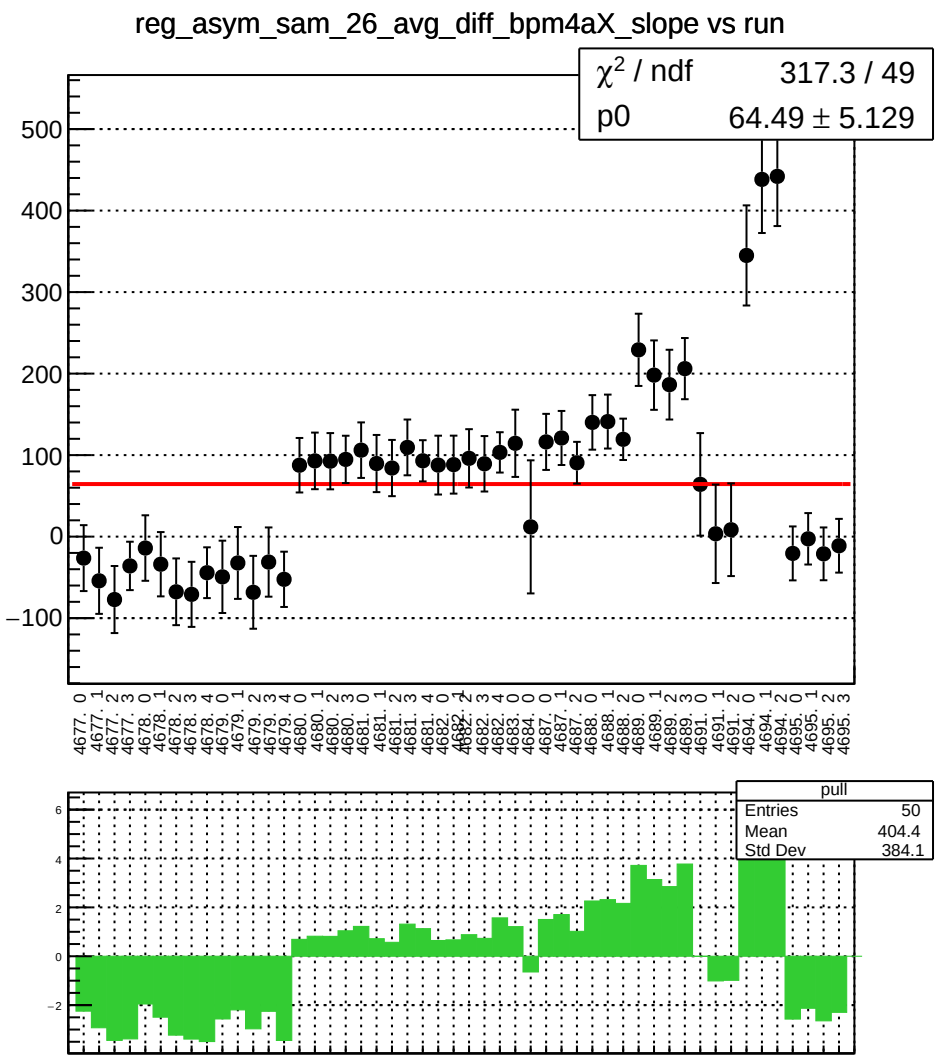

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.29 / 49
p0 −631 ± 3.512
−500
−550
−600
−650
−700
pull
Entries 50
Mean −2.291
Std Dev 19.5
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 50
Mean 0.07892
Std Dev 0.5826
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

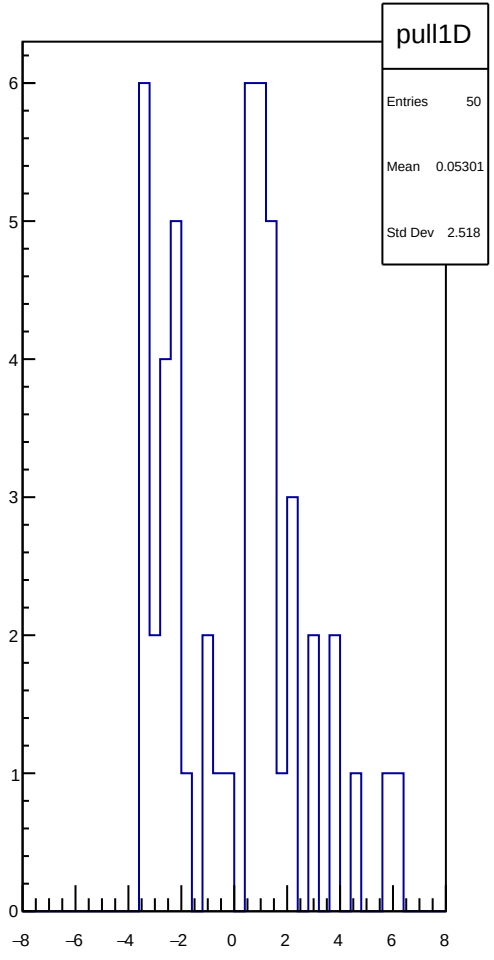

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.844 / 49
p0 29.81 ± 20.74
pull
Entries 50
Mean 16.29
Std Dev 31.23

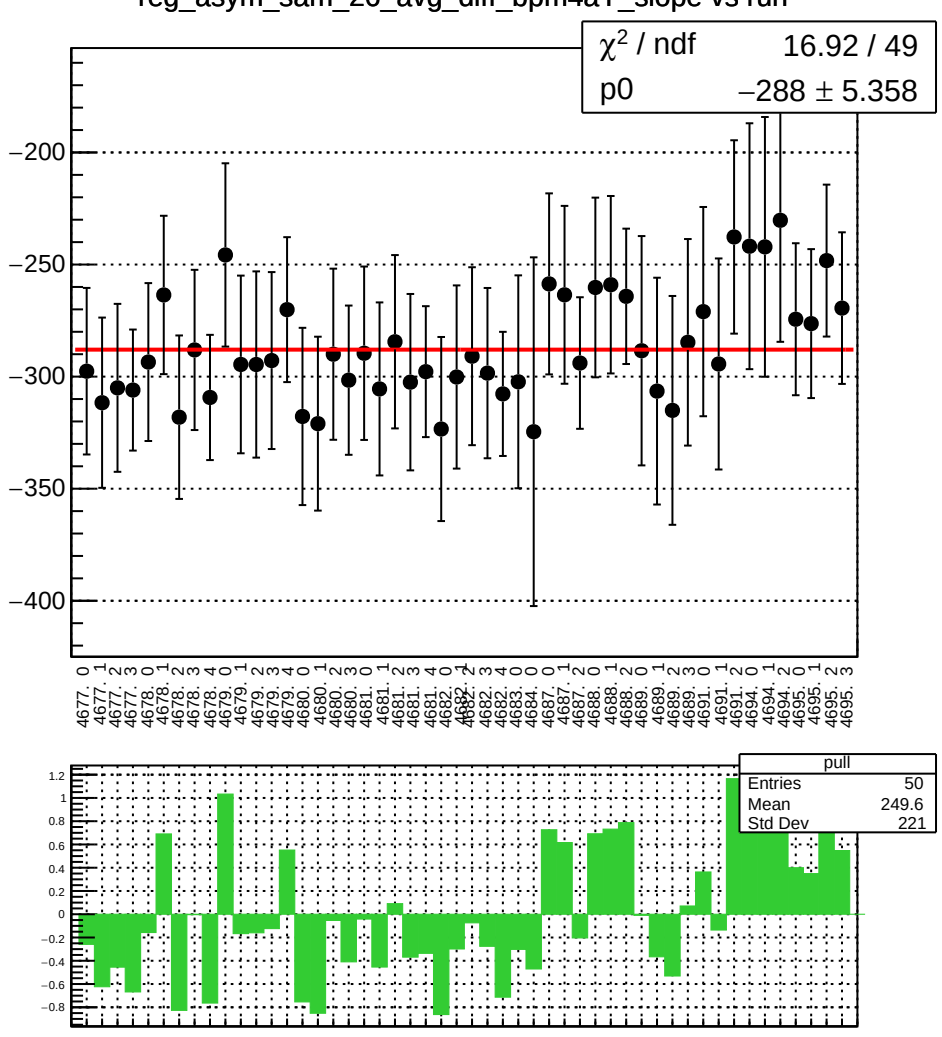

pull1D
Entries 50
Mean 0.005417
Std Dev 0.1298

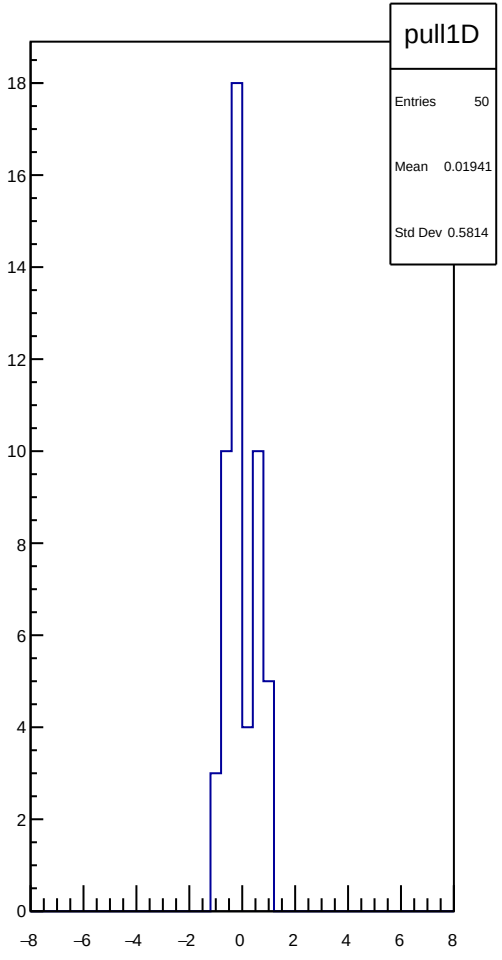

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 5.197 / 49
p0 1.9 ± 2.284
pull
Entries 50
Mean −9.255
Std Dev 16.7

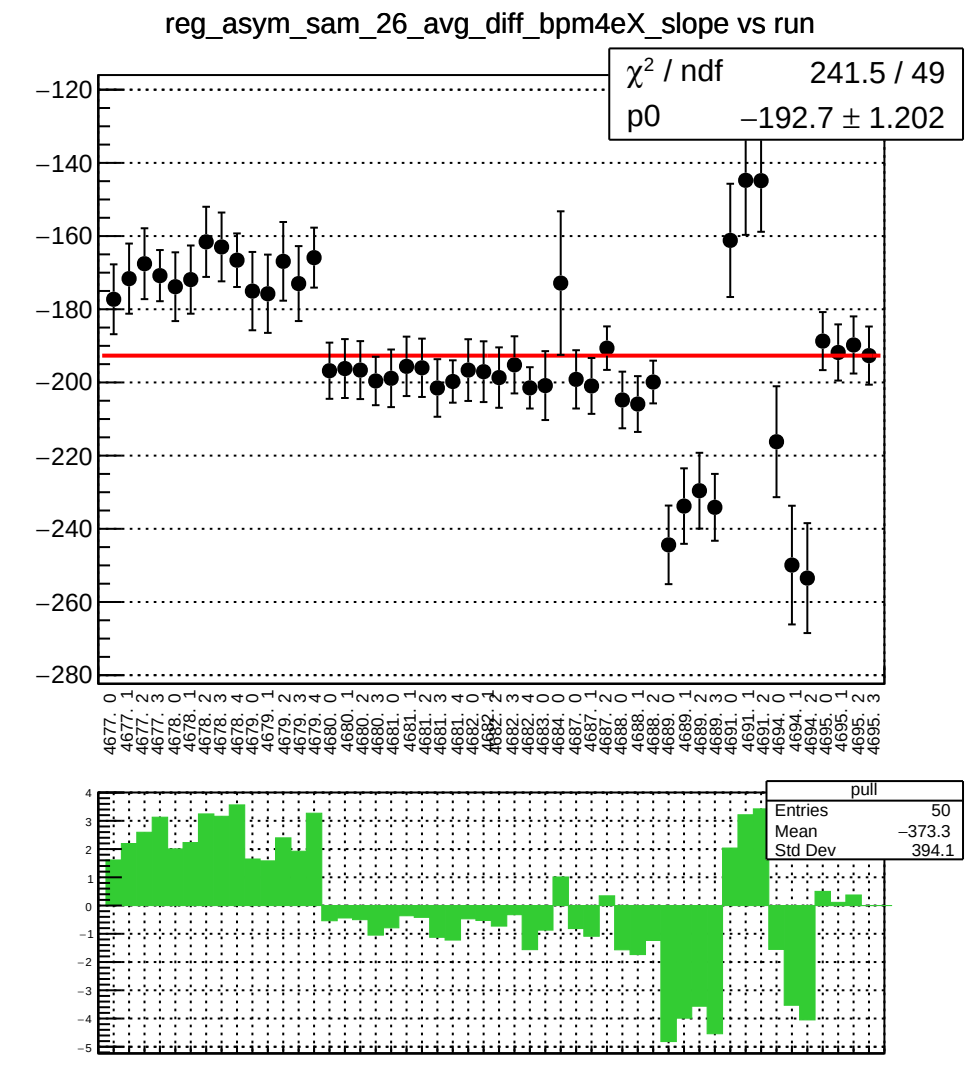

pull1D
Entries 50
Mean 0.03712
Std Dev 0.3202

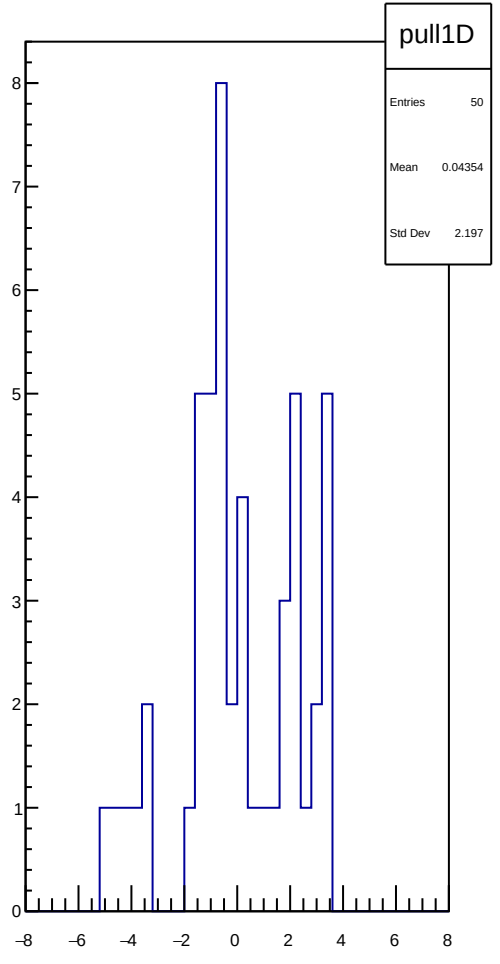

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 317.3 / 49
p0 64.49 ± 5.129
pull
Entries 50
Mean 404.4
Std Dev 384.1

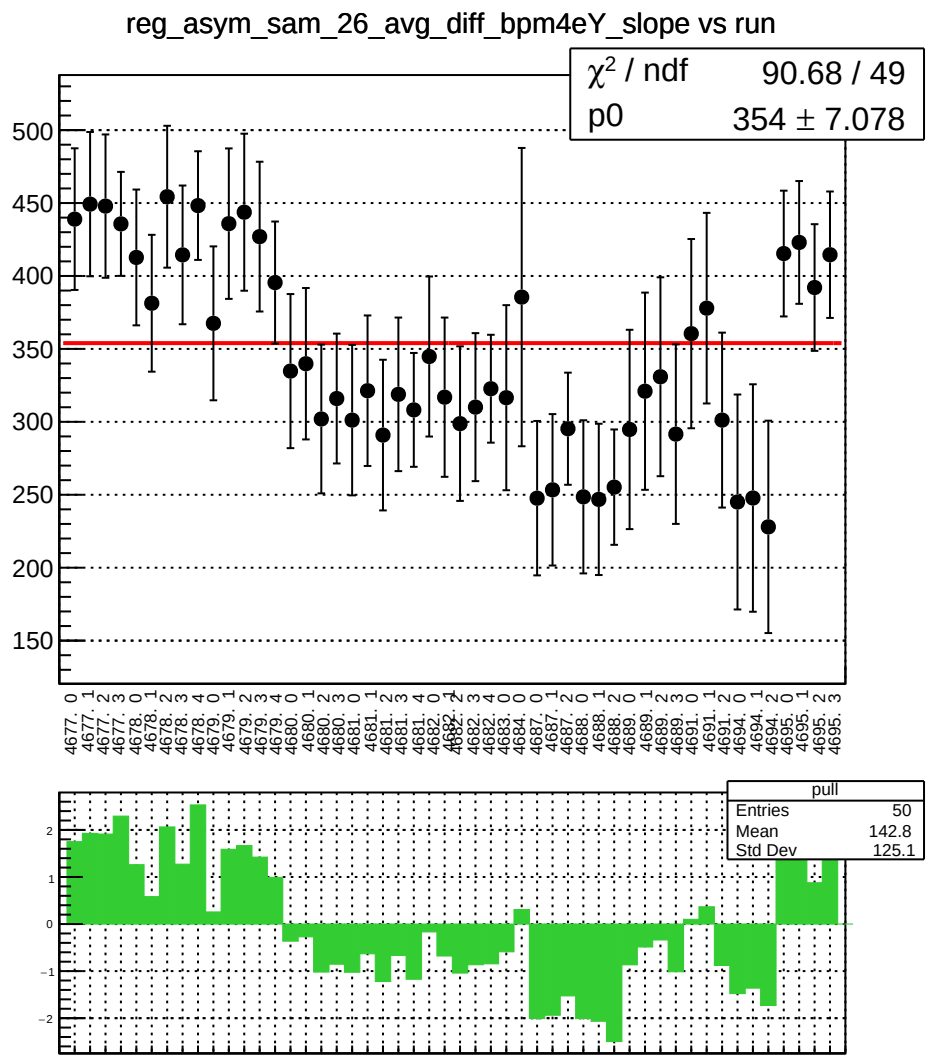

pull1D
Entries 50
Mean 0.05301
Std Dev 2.518

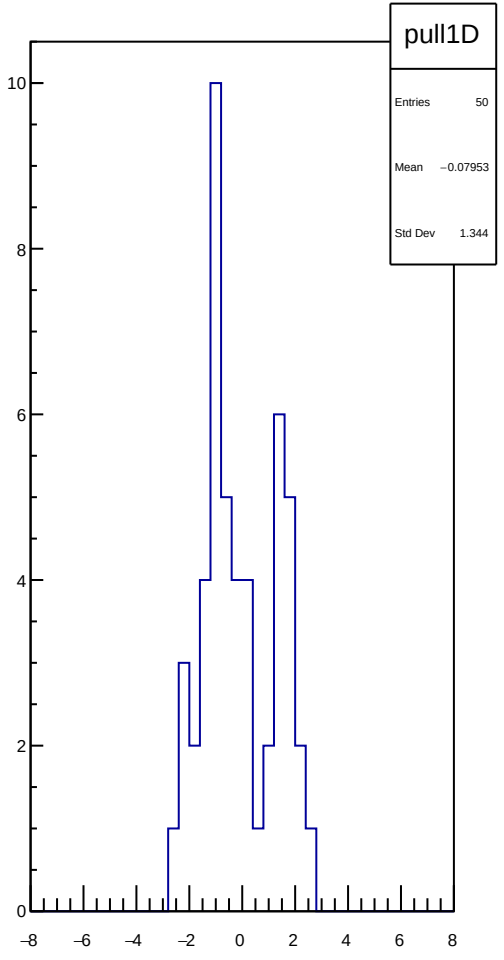

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.92 / 49
p0 −288 ± 5.358
pull
Entries 50
Mean 249.6
Std Dev 221

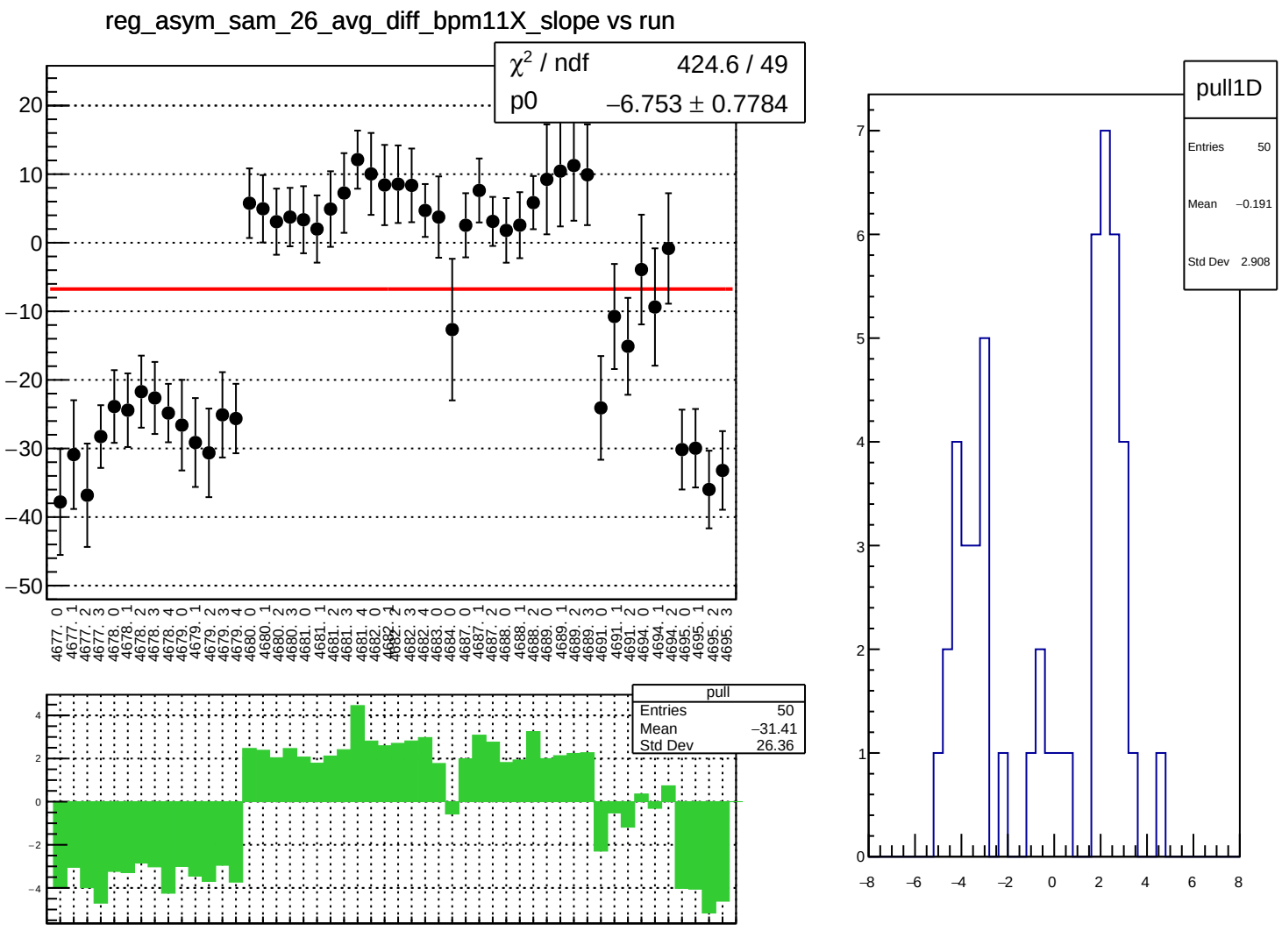

pull1D
Entries 50
Mean 0.01941
Std Dev 0.5814

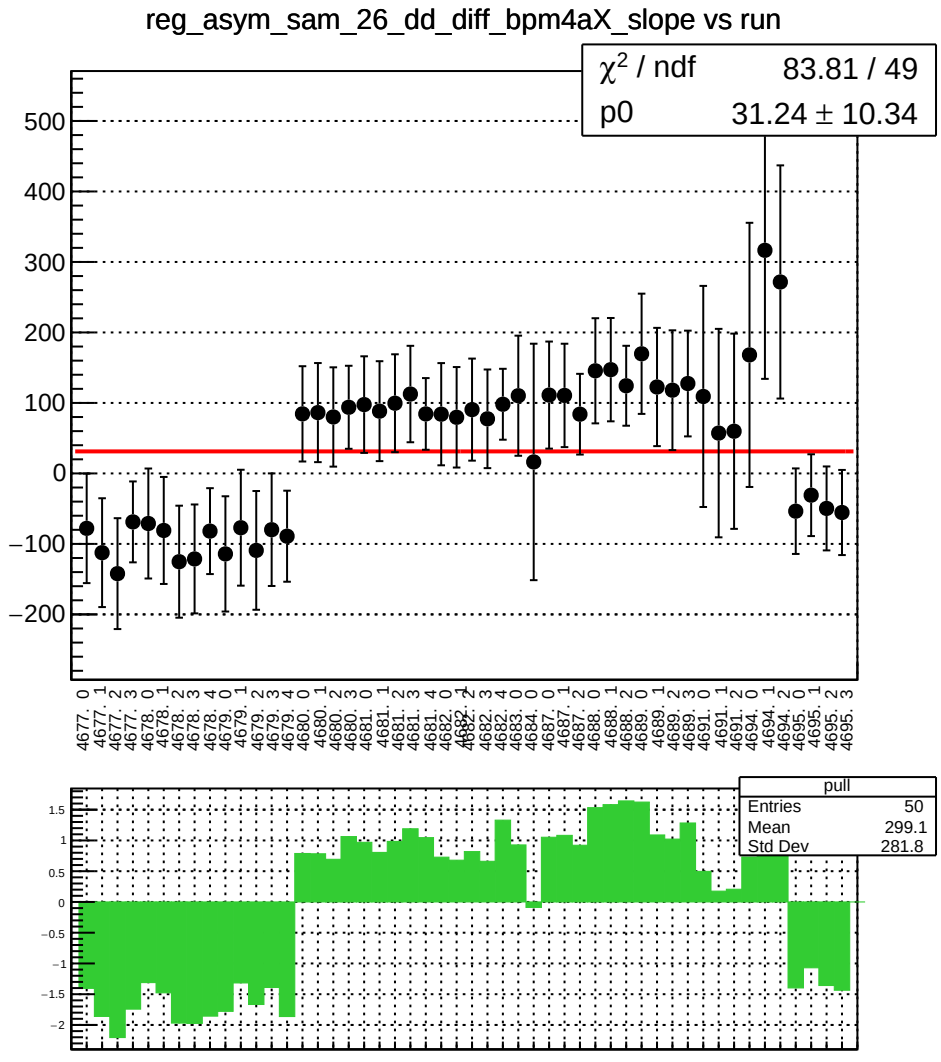

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 241.5 / 49
p0 −192.7 ± 1.202
pull
Entries 50
Mean −373.3
Std Dev 394.1

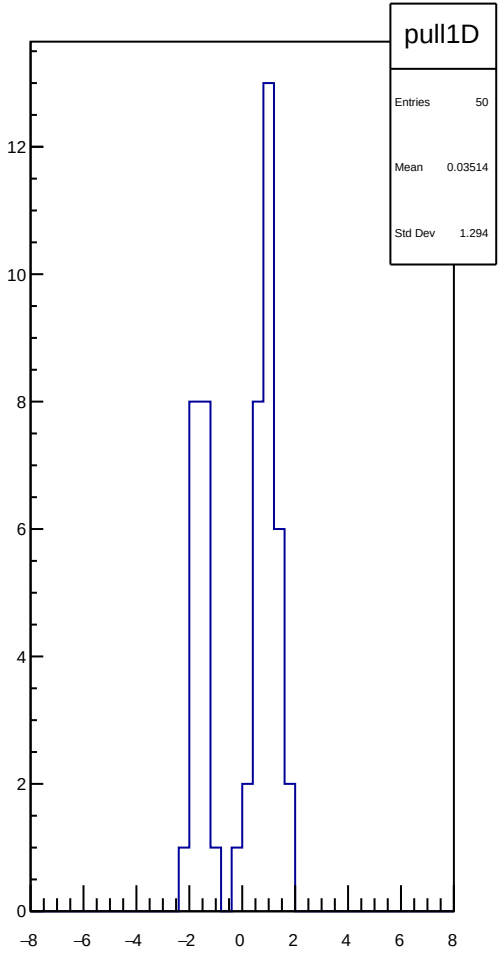

pull1D
Entries 50
Mean 0.04354
Std Dev 2.197

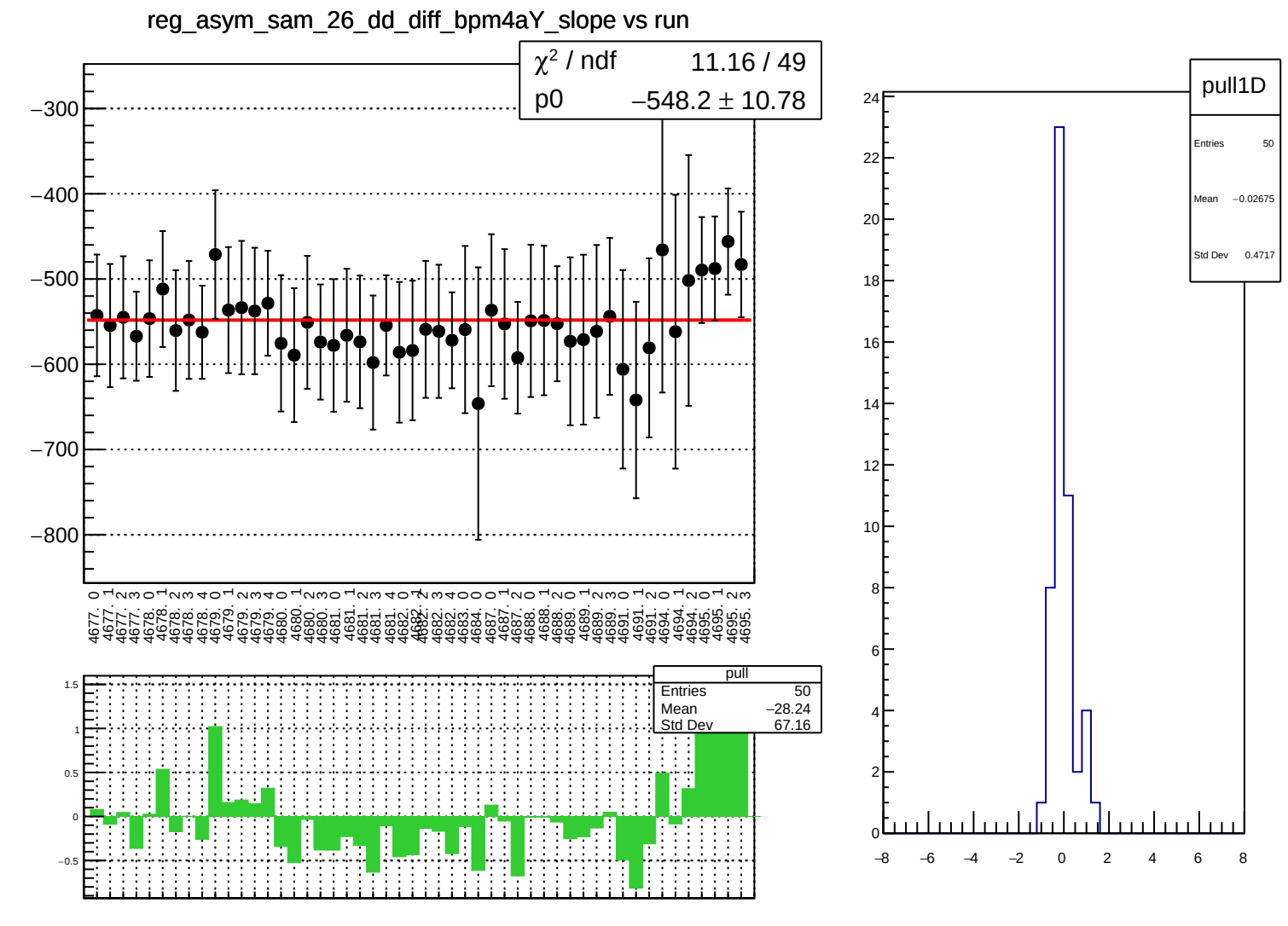

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 90.68 / 49
p0 354 ± 7.078
pull
Entries 50
Mean 142.8
Std Dev 125.1

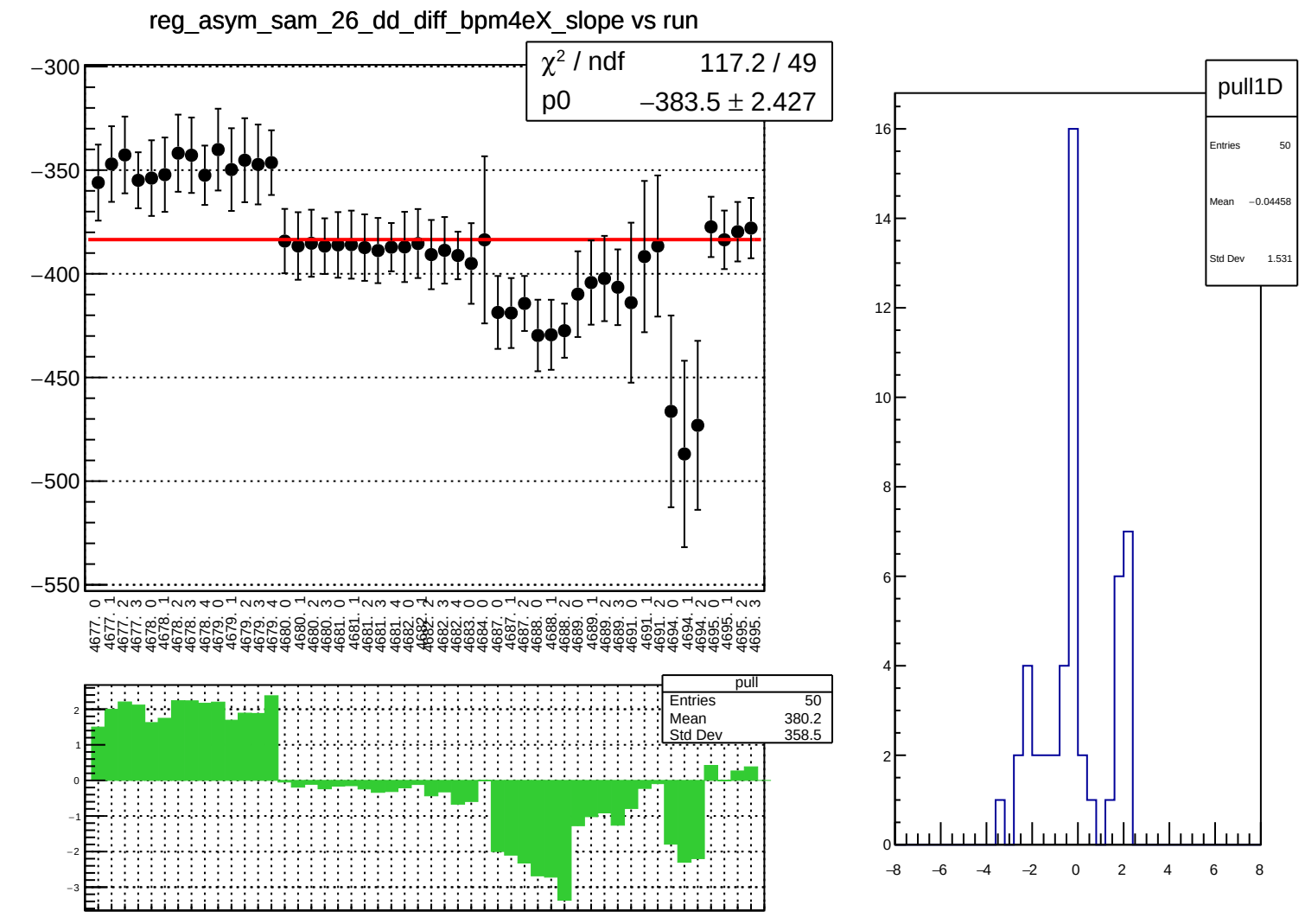

pull1D
Entries 50
Mean −0.07953
Std Dev 1.344

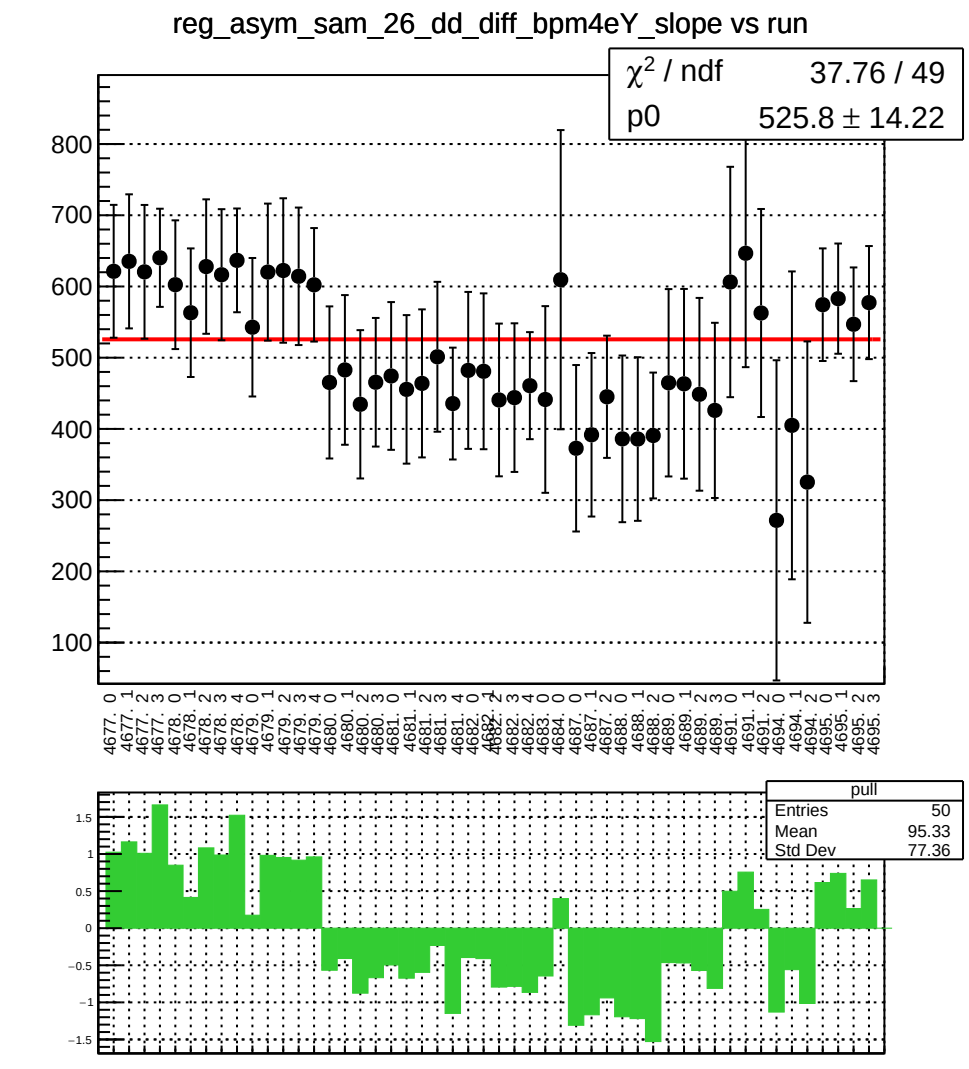

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 424.6 / 49
p0 −6.753 ± 0.7784
pull
Entries 50
Mean −31.41
Std Dev 26.36
pull1D
Entries 50
Mean −0.191
Std Dev 2.908

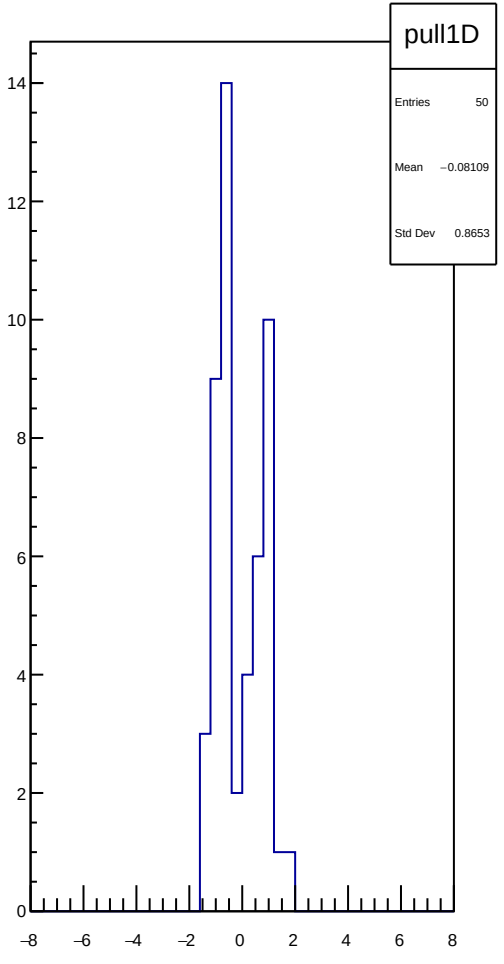

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 83.81 / 49
p0 31.24 ± 10.34
pull
Entries 50
Mean 299.1
Std Dev 281.8

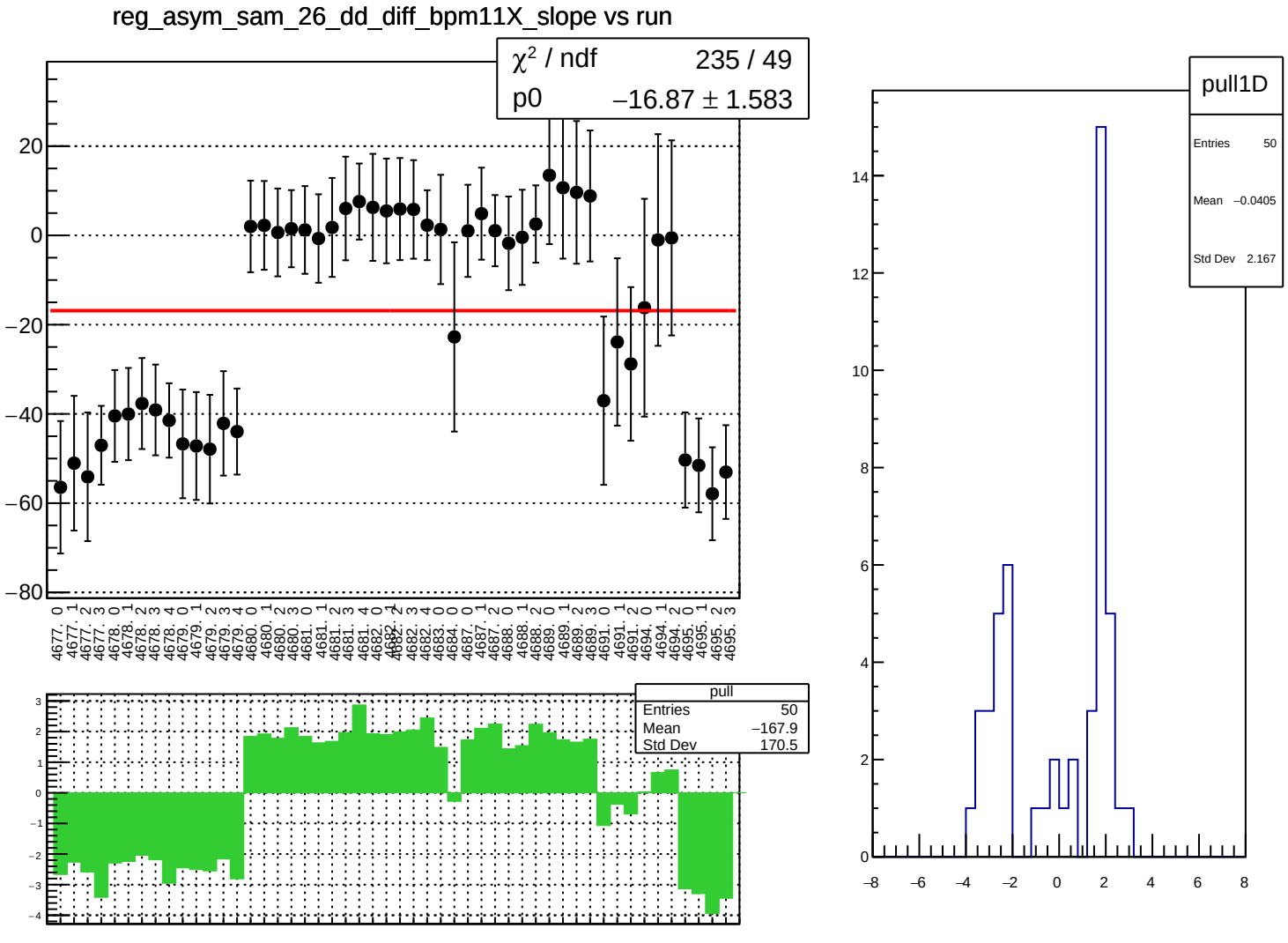

pull1D
Entries 50
Mean 0.03514
Std Dev 1.294

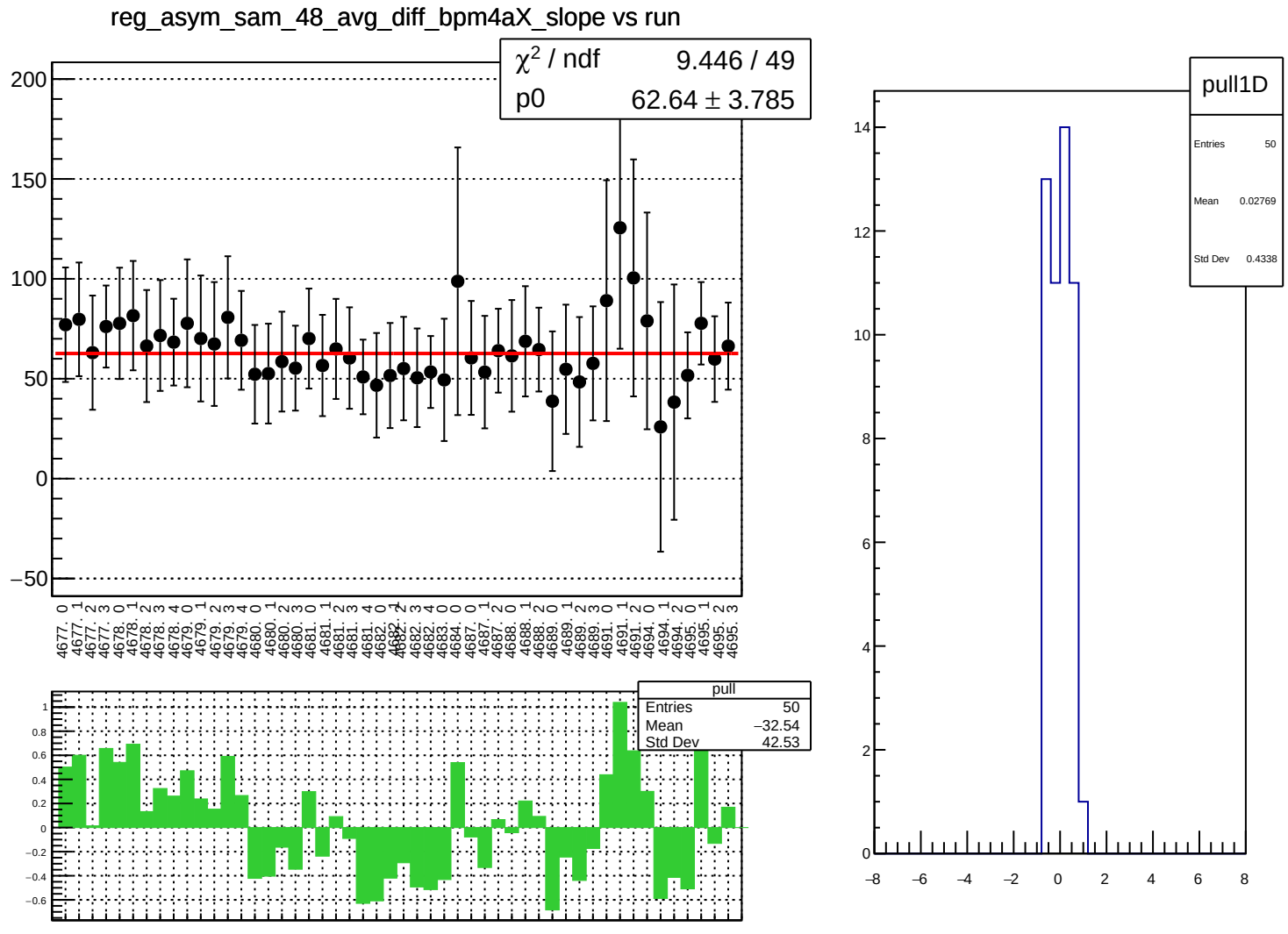

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.16 / 49
p0 −548.2 ± 10.78
pull
Entries 50
Mean −28.24
Std Dev 67.16
pull1D
Entries 50
Mean −0.02675
Std Dev 0.4717

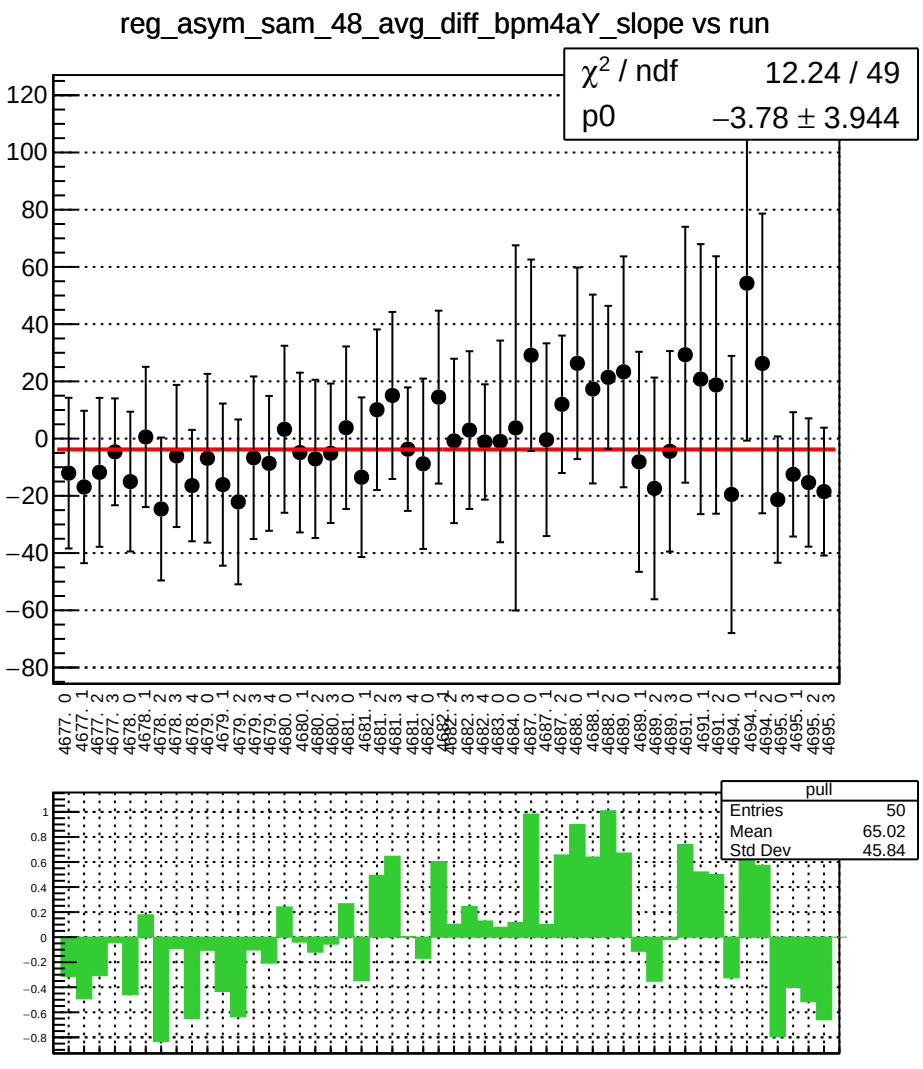

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 117.2 / 49
p0 −383.5 ± 2.427
pull
Entries 50
Mean 380.2
Std Dev 358.5
pull1D
Entries 50
Mean −0.04458
Std Dev 1.531

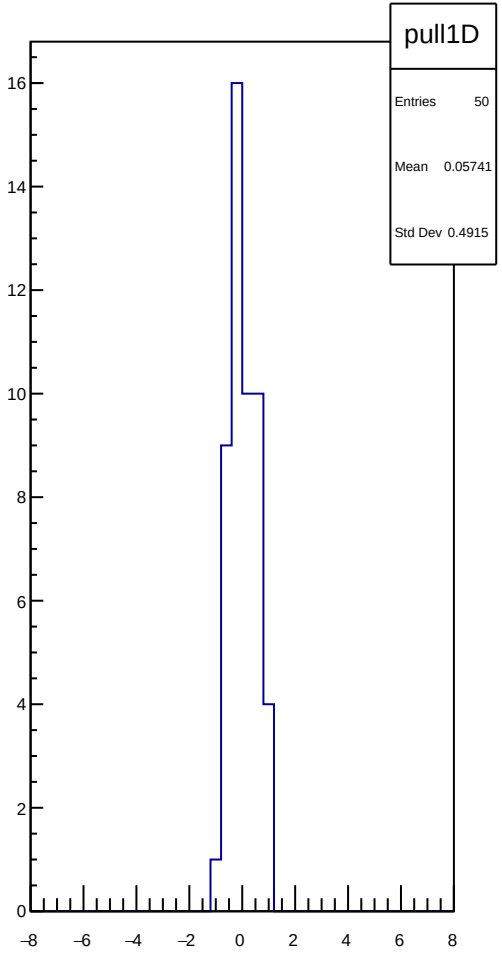

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.76 / 49
p0 525.8 ± 14.22
pull
Entries 50
Mean 95.33
Std Dev 77.36

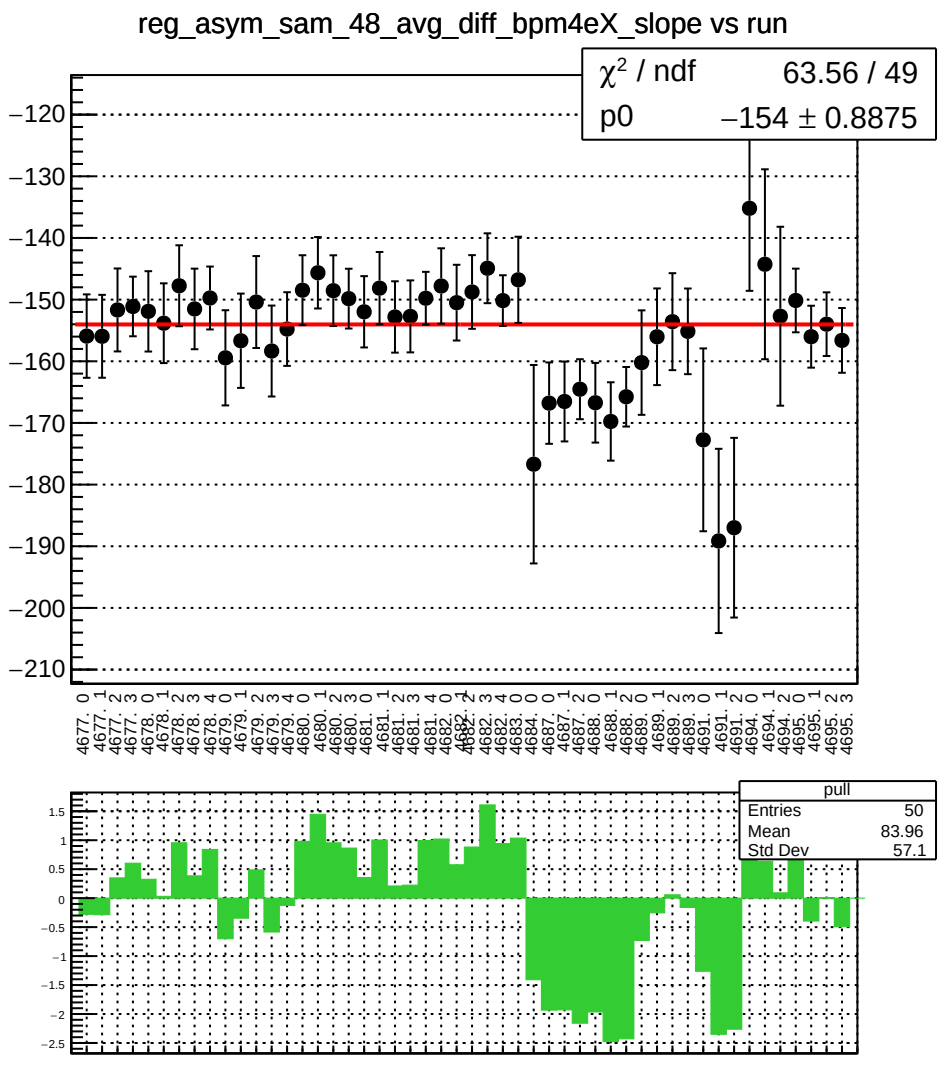

pull1D
Entries 50
Mean −0.08109
Std Dev 0.8653

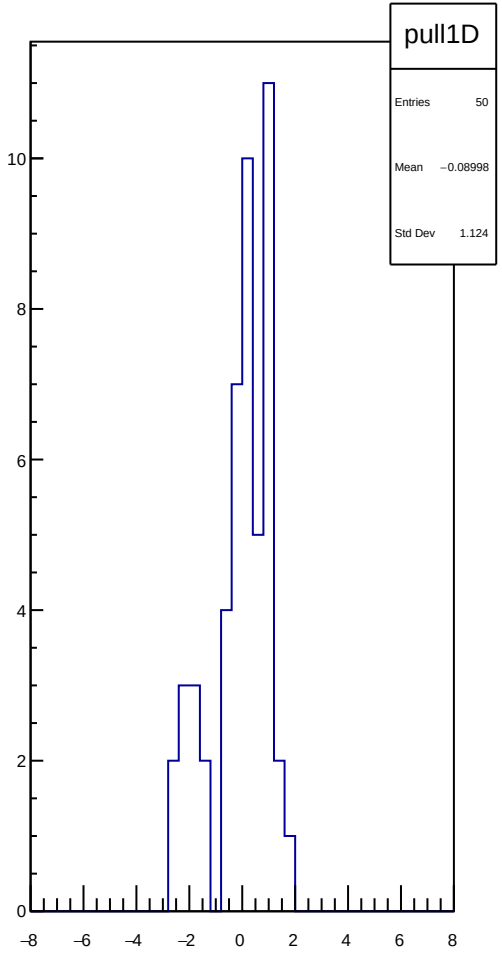

reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 235 / 49
p0 −16.87 ± 1.583
pull
Entries 50
Mean −167.9
Std Dev 170.5
pull1D
Entries 50
Mean −0.0405
Std Dev 2.167

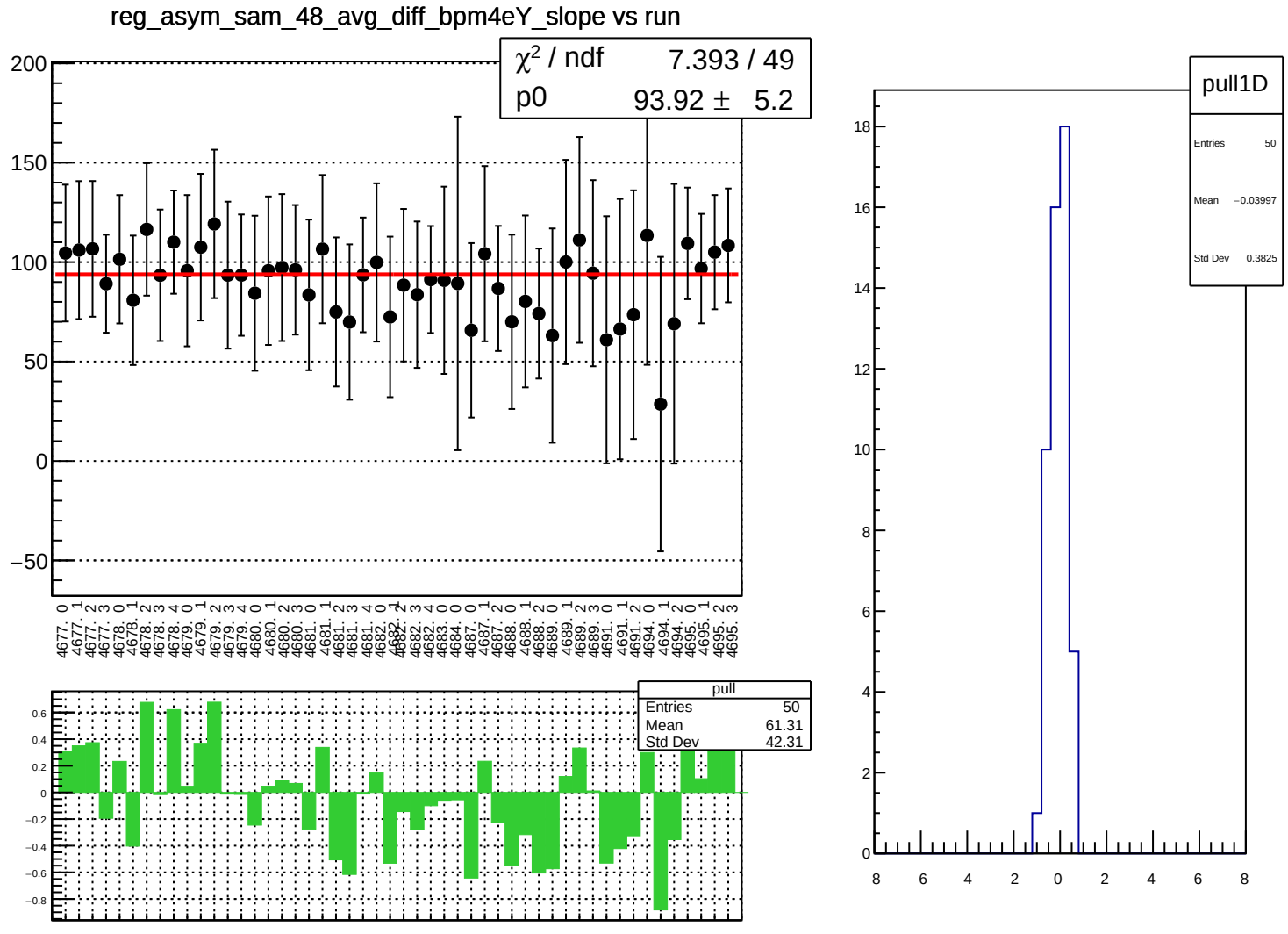

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 9.446 / 49
p0 62.64 ± 3.785
pull
Entries 50
Mean −32.54
Std Dev 42.53
pull1D
Entries 50
Mean 0.02769
Std Dev 0.4338

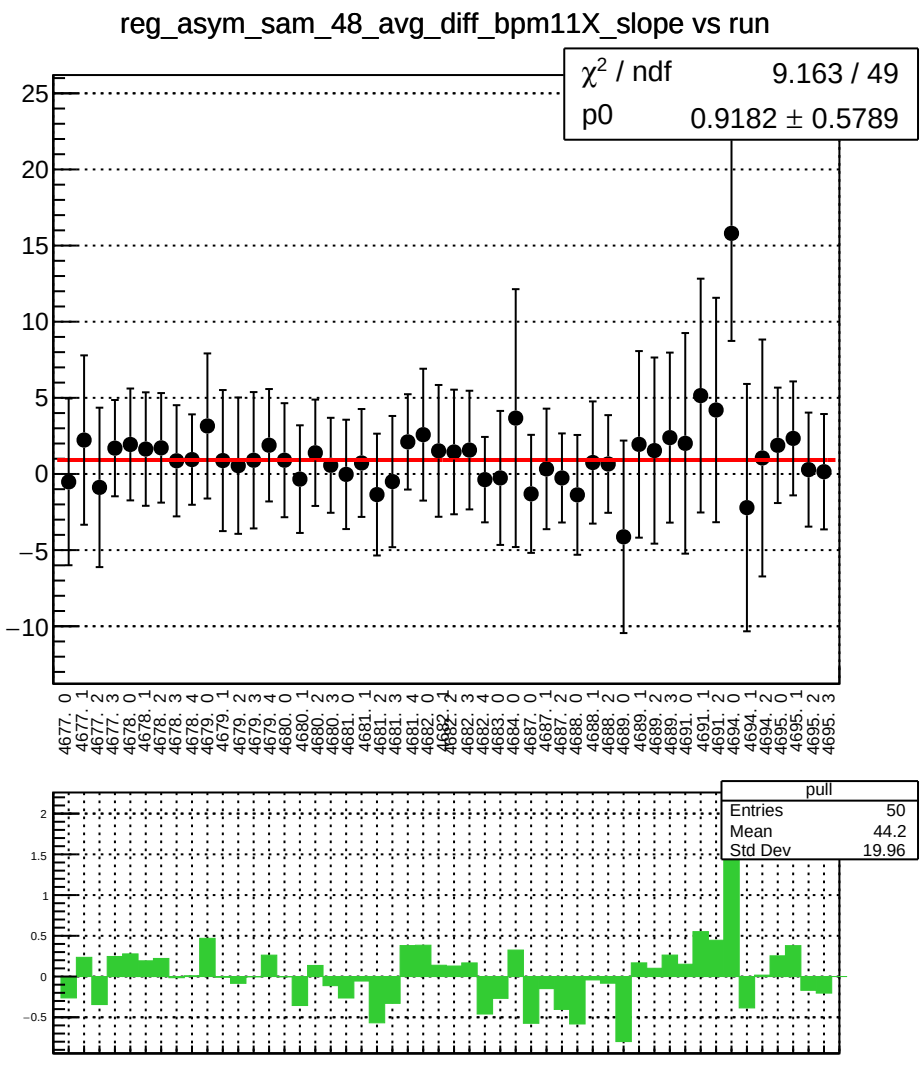

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.24 / 49
p0 −3.78 ± 3.944
pull
Entries 50
Mean 65.02
Std Dev 45.84

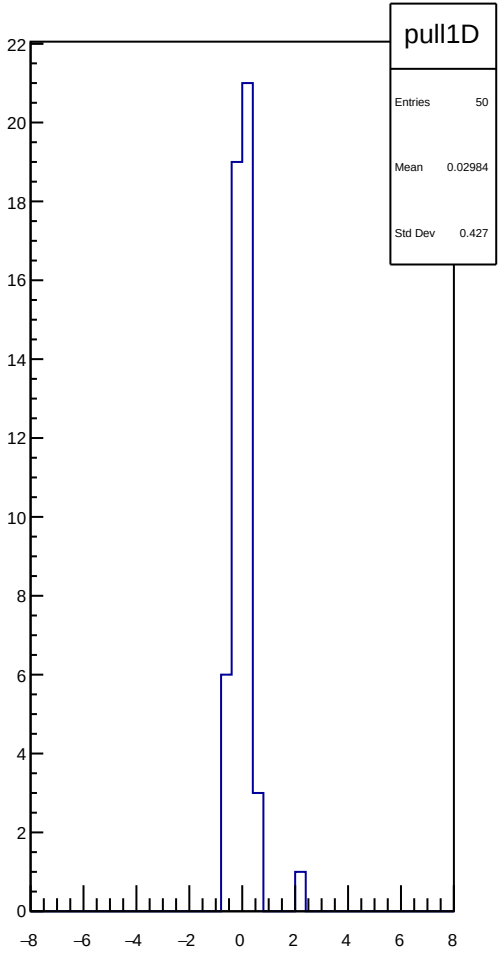

pull1D
Entries 50
Mean 0.05741
Std Dev 0.4915

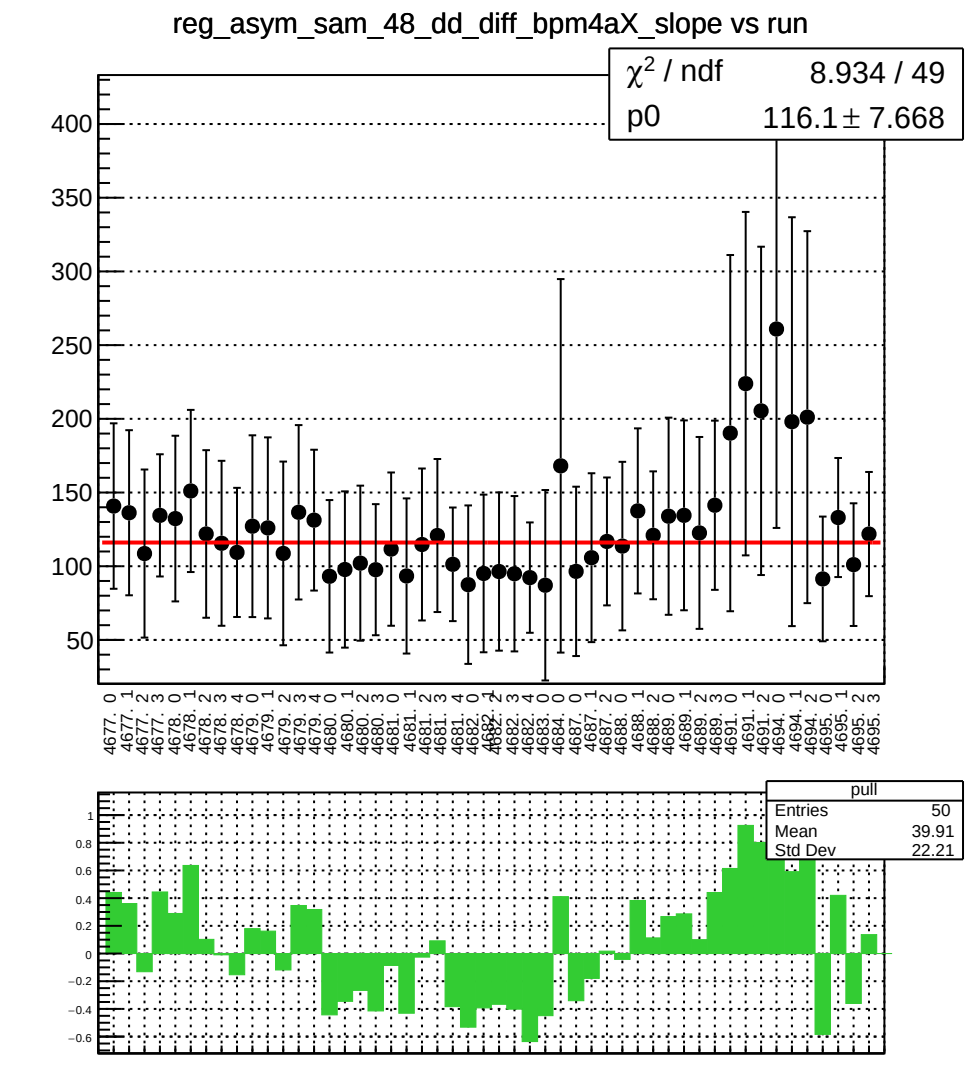

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 63.56 / 49
p0 −154 ± 0.8875
pull
Entries 50
Mean 83.96
Std Dev 57.1

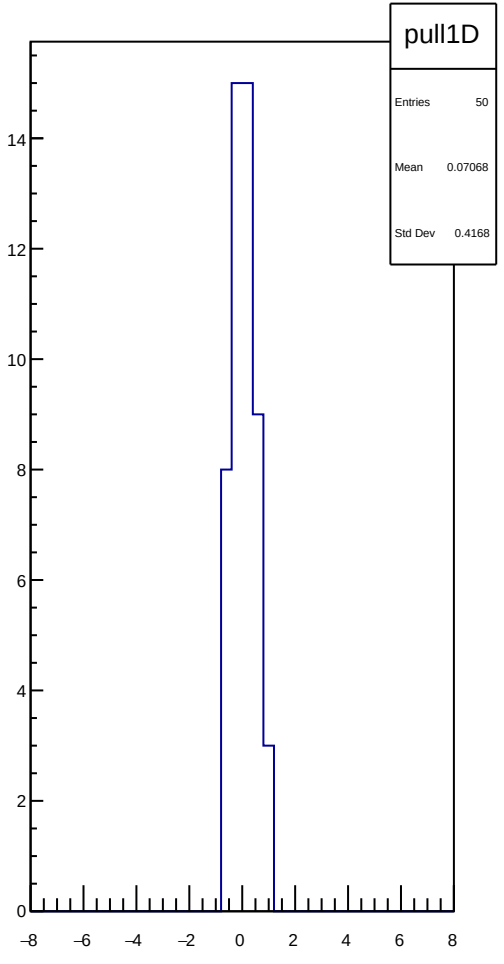

pull1D
Entries 50
Mean −0.08998
Std Dev 1.124

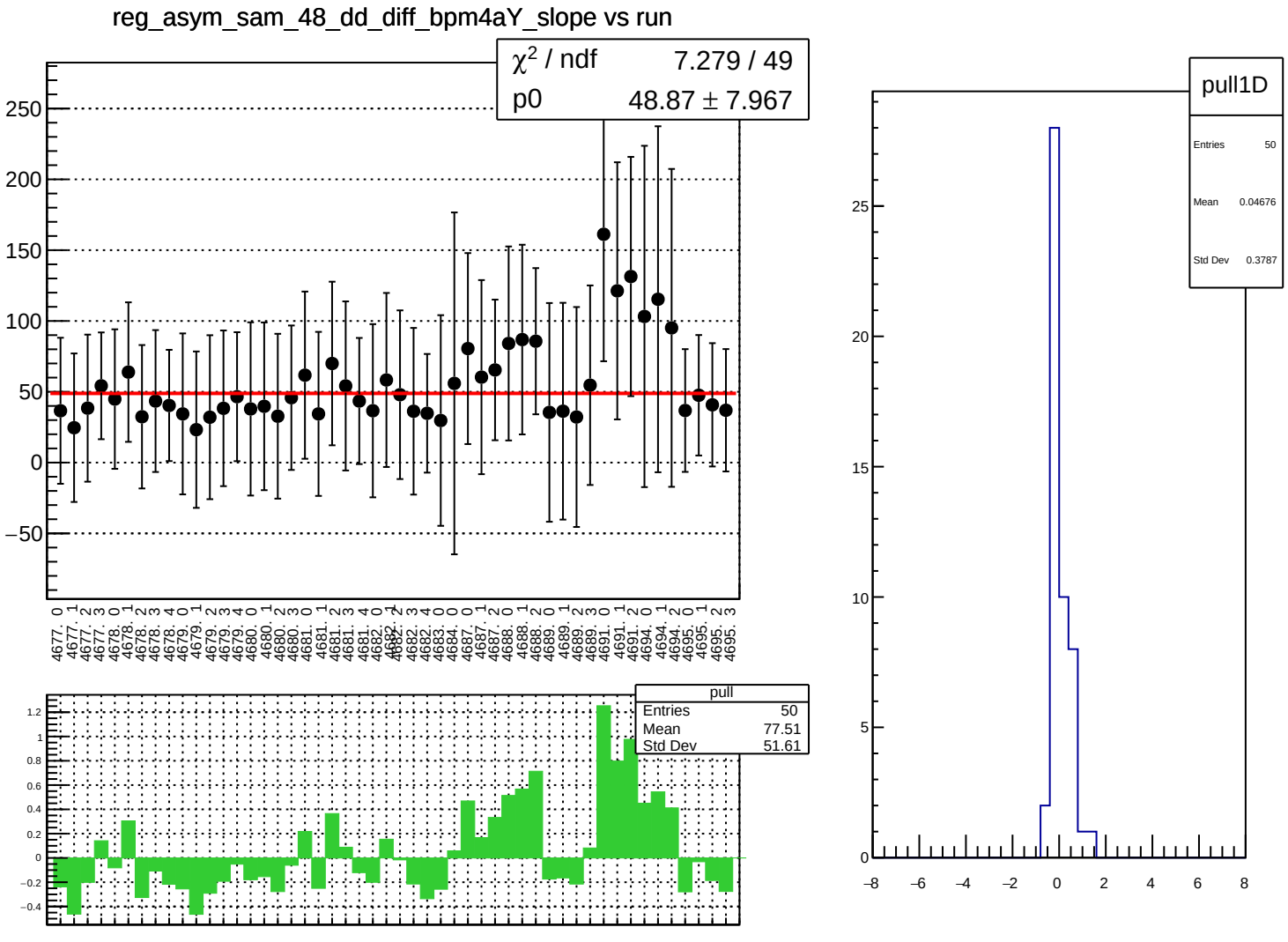

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.393 / 49
p0 93.92 ± 5.2
pull
Entries 50
Mean 61.31
Std Dev 42.31
pull1D
Entries 50
Mean −0.03997
Std Dev 0.3825

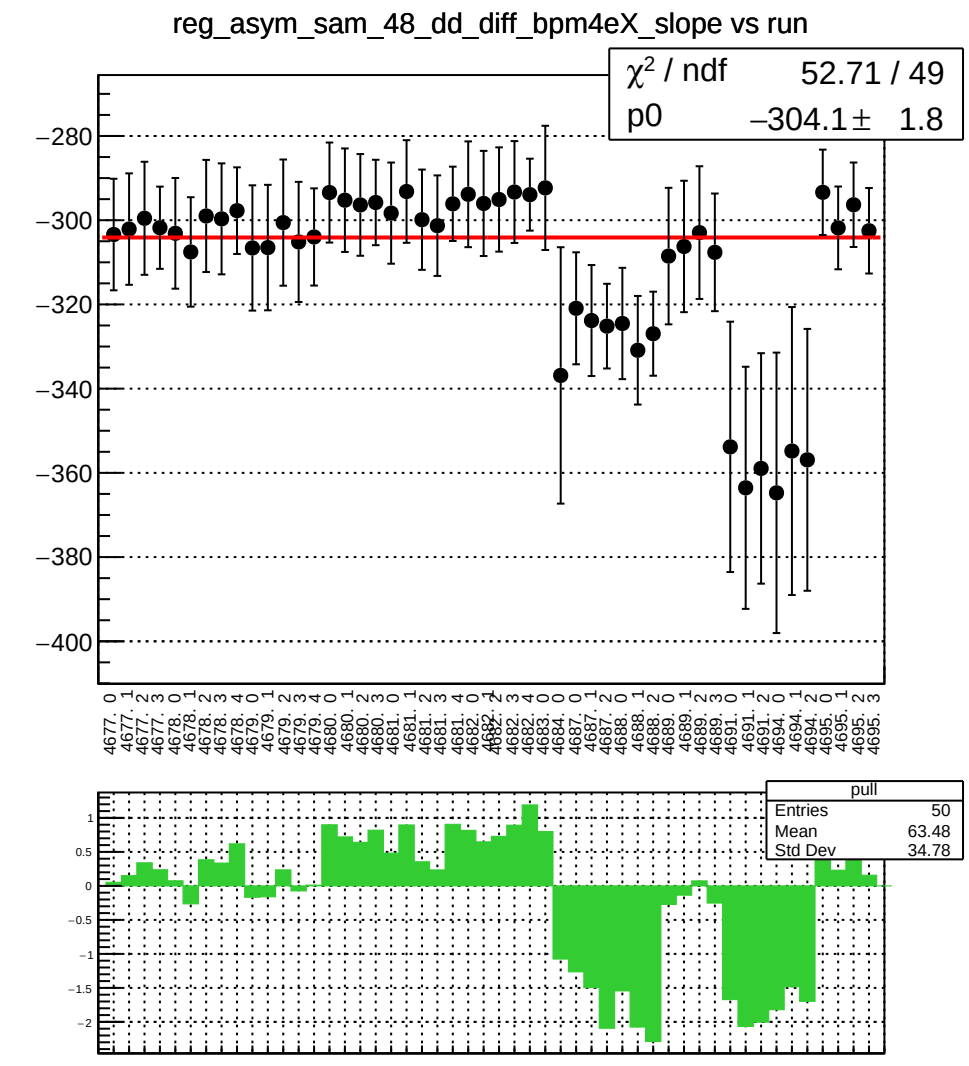

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 9.163 / 49
p0 0.9182 ± 0.5789
pull
Entries 50
Mean 44.2
Std Dev 19.96

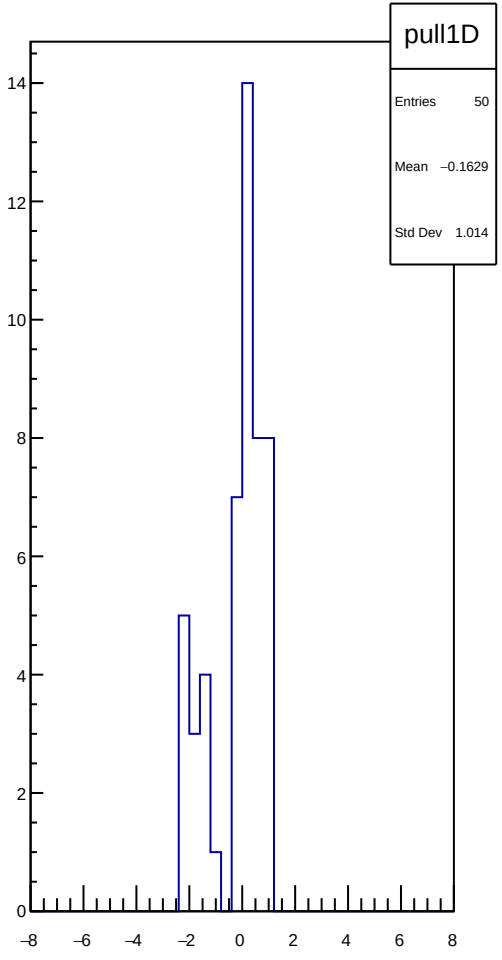

pull1D
Entries 50
Mean 0.02984
Std Dev 0.427

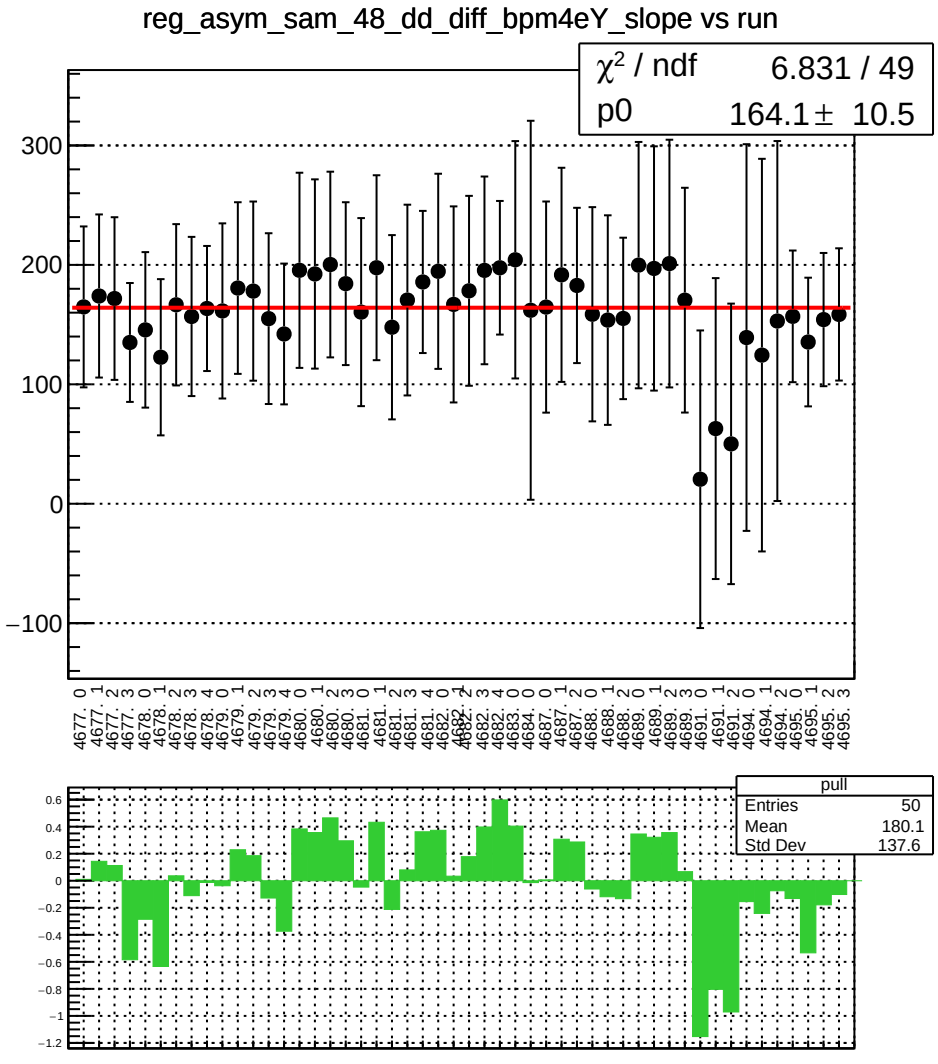

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 8.934 / 49
p0 116.1 ± 7.668
pull
Entries 50
Mean 39.91
Std Dev 22.21

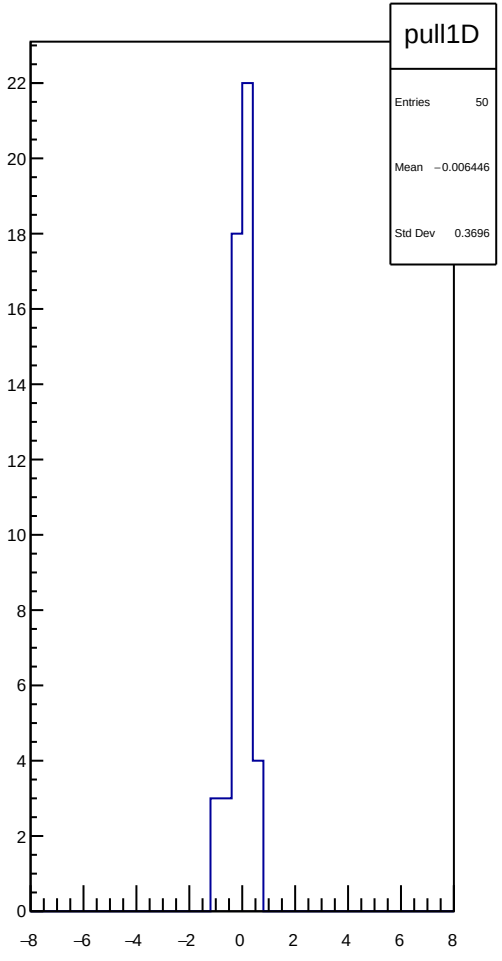

pull1D
Entries 50
Mean 0.07068
Std Dev 0.4168

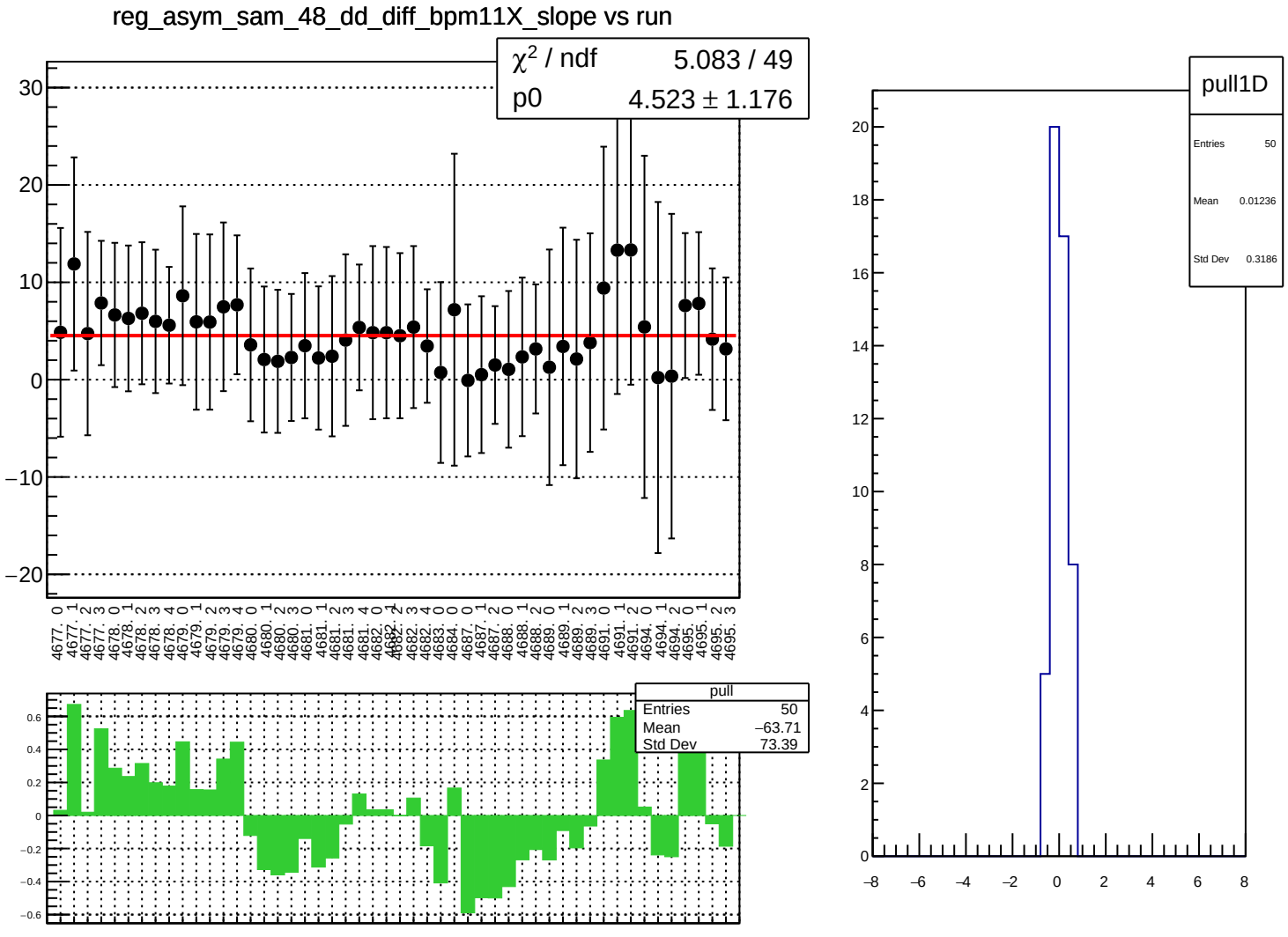

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.279 / 49
p0 48.87 ± 7.967
250
200
150
100
50
0
−50
4677. 0
4677. 1
4677. 2
4677. 3
4678. 0
4678. 1
4678. 2
4678. 3
4678. 4
4679. 0
4679. 1
4679. 2
4679. 3
4679. 4
4680. 0
4680. 1
4680. 2
4680. 3
4681. 0
4681. 1
4681. 2
4681. 3
4681. 4
4682. 0
4682. 1
4682. 2
4682. 3
4682. 4
4683. 0
4684. 0
4687. 0
4687. 1
4687. 2
4688. 0
4688. 1
4688. 2
4689. 0
4689. 1
4689. 2
4689. 3
4691. 0
4691. 1
4691. 2
4694. 0
4694. 1
4694. 2
4695. 0
4695. 1
4695. 2
4695. 3
pull
Entries 50
Mean 77.51
Std Dev 51.61
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 50
Mean 0.04676
Std Dev 0.3787
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

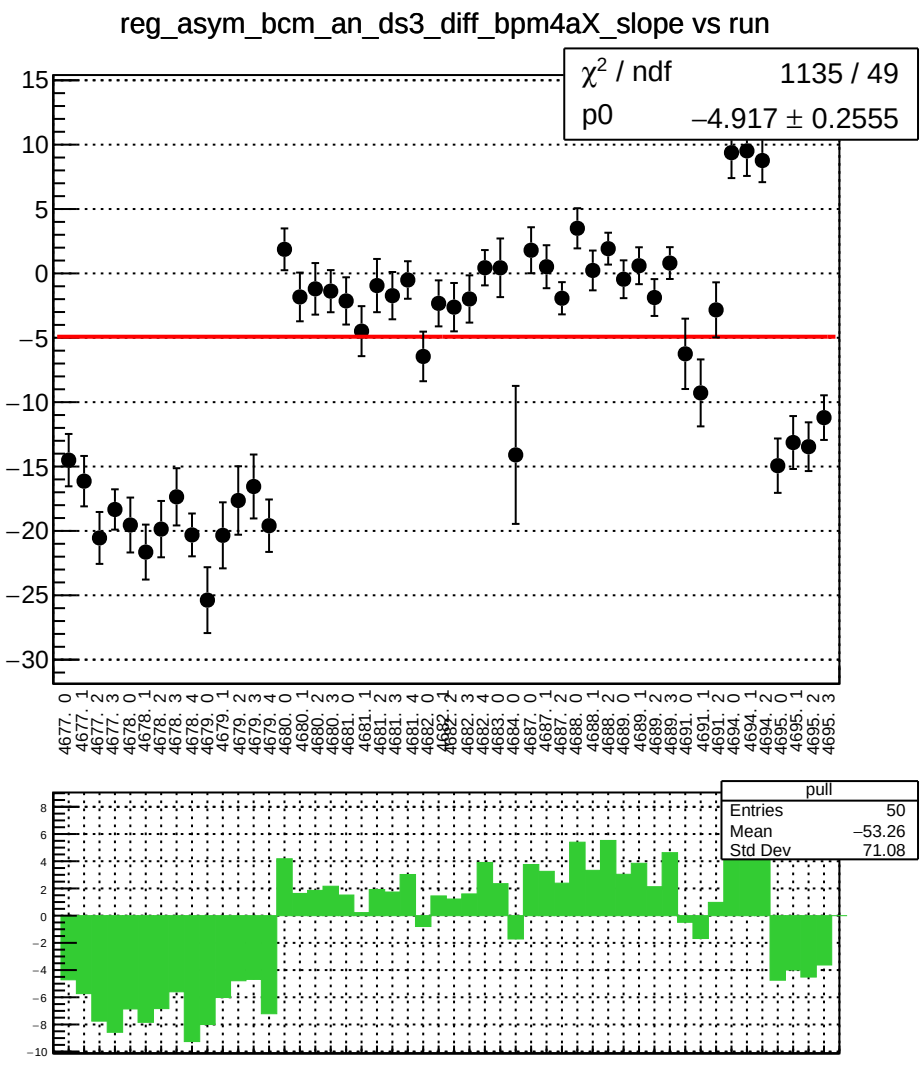

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 52.71 / 49
p0 −304.1 ± 1.8
pull
Entries 50
Mean 63.48
Std Dev 34.78

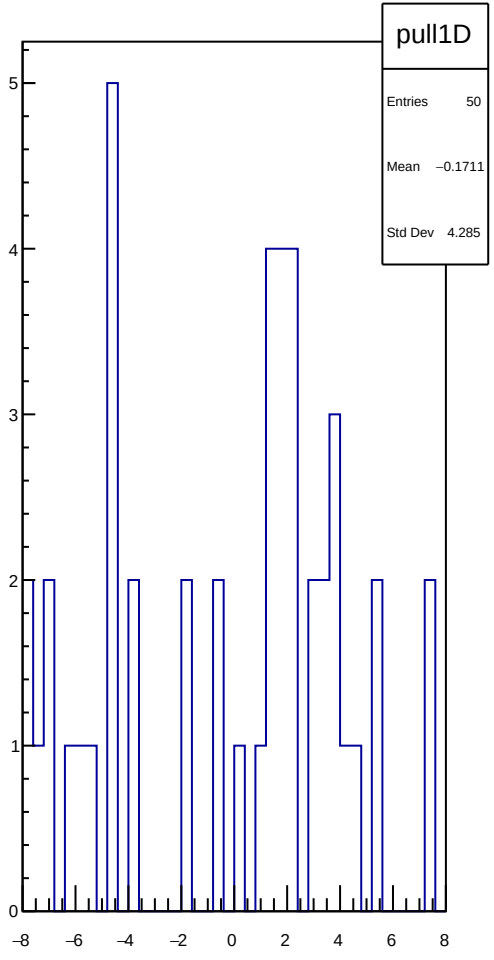

pull1D
Entries 50
Mean −0.1629
Std Dev 1.014

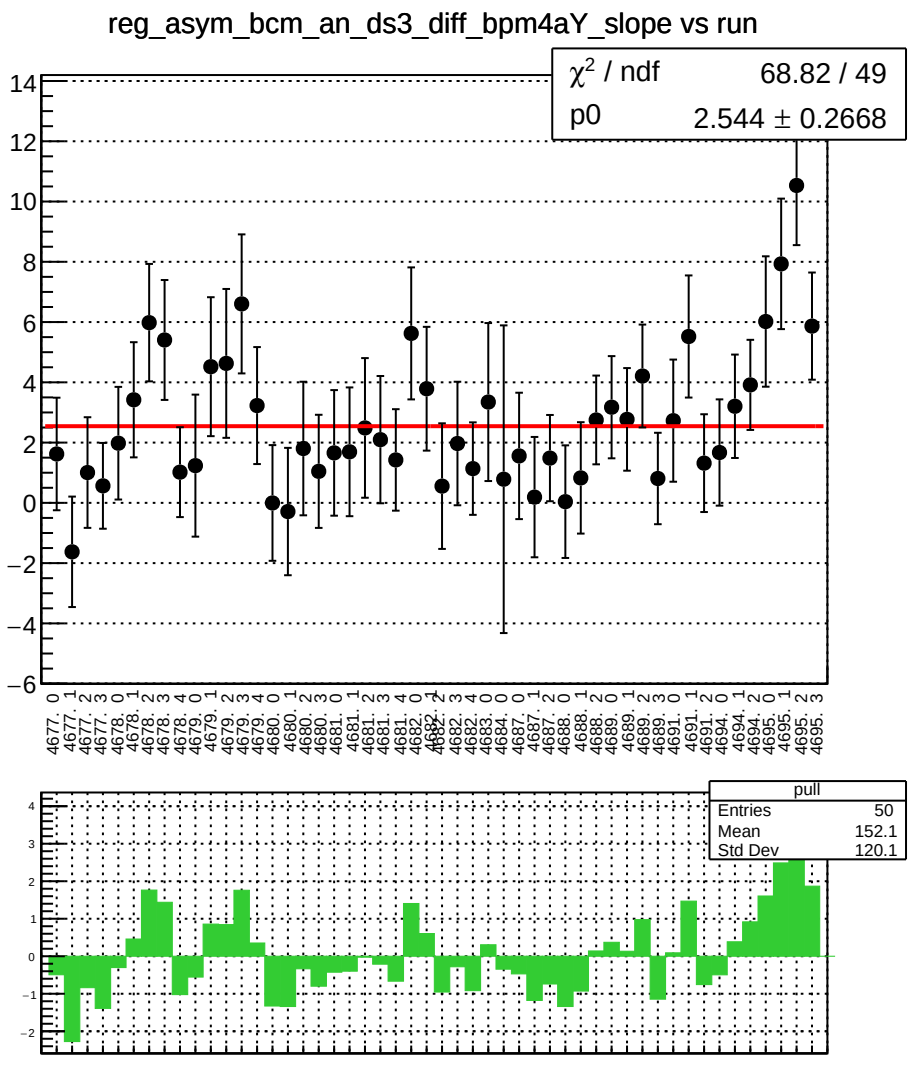

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.831 / 49
p0 164.1 ± 10.5
pull
Entries 50
Mean 180.1
Std Dev 137.6

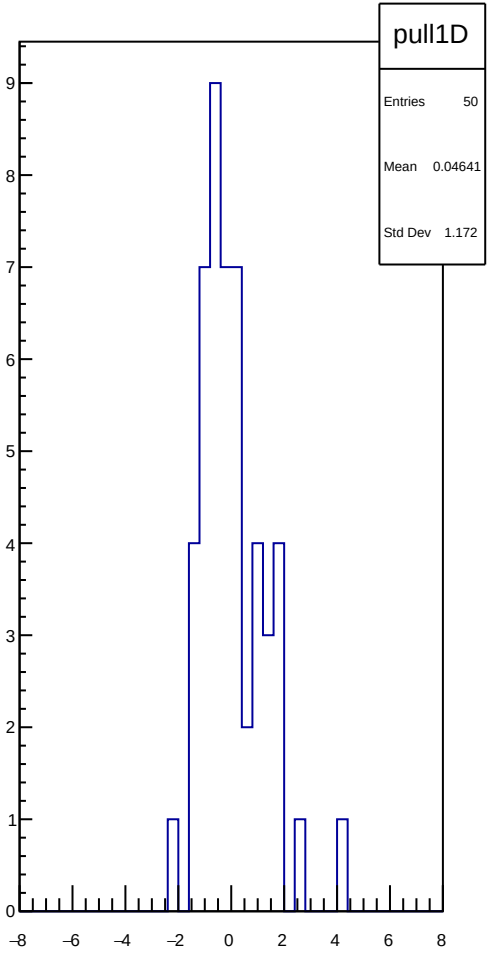

pull1D
Entries 50
Mean −0.006446
Std Dev 0.3696

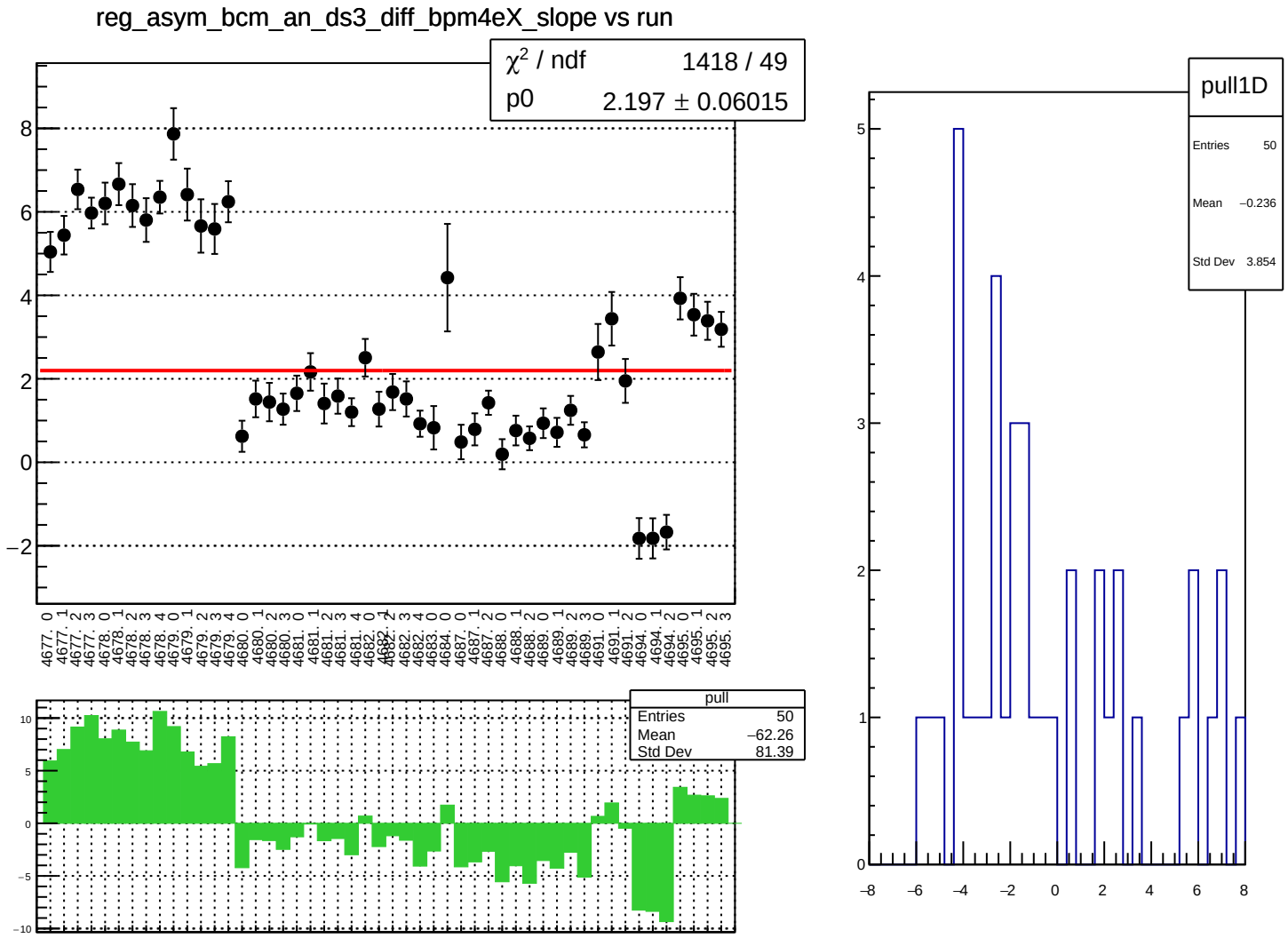

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 5.083 / 49
p0 4.523 ± 1.176
pull
Entries 50
Mean −63.71
Std Dev 73.39
pull1D
Entries 50
Mean 0.01236
Std Dev 0.3186

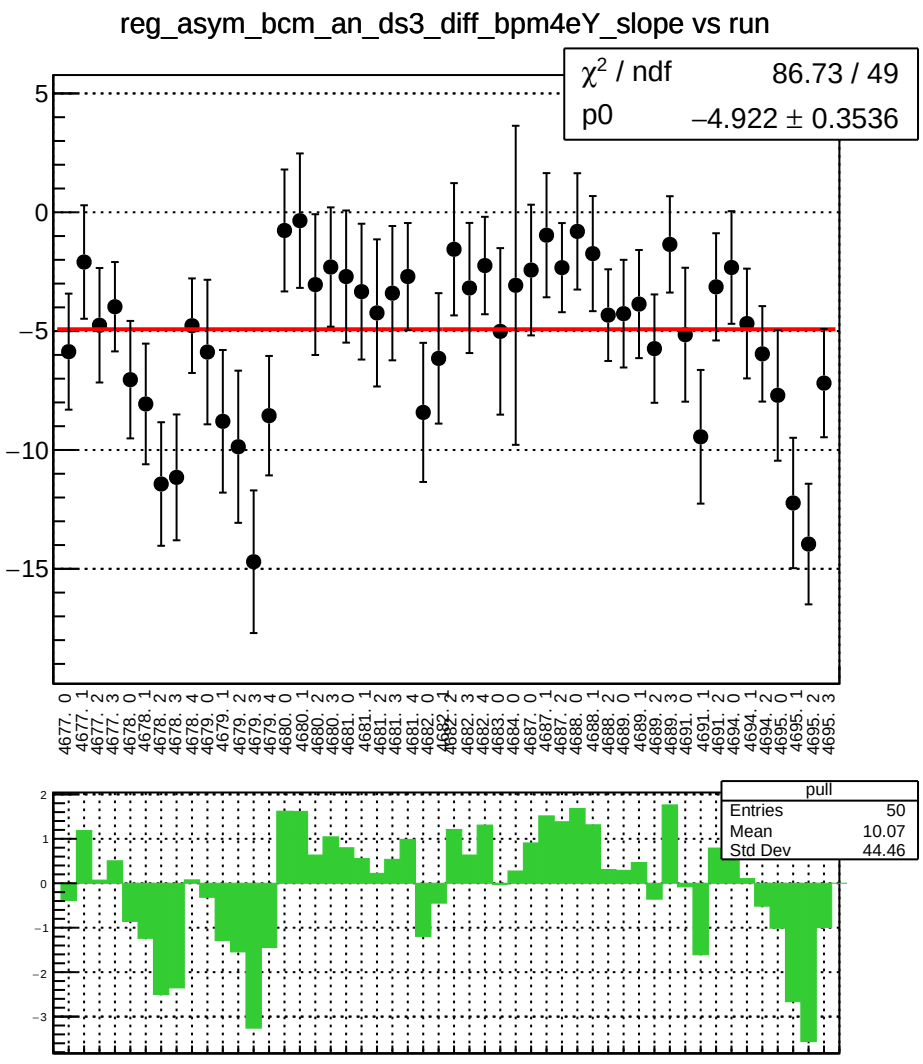

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 1135 / 49
p0 −4.917 ± 0.2555
pull
Entries 50
Mean −53.26
Std Dev 71.08

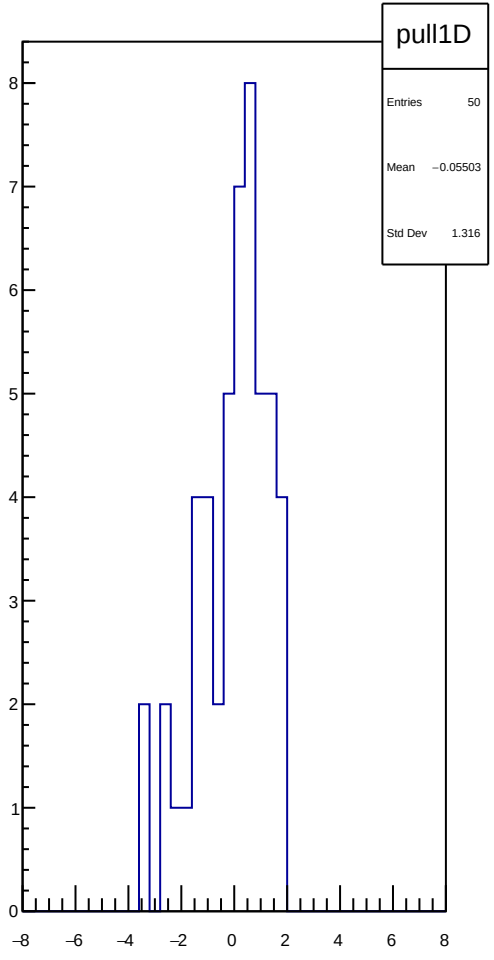

pull1D
Entries 50
Mean −0.1711
Std Dev 4.285

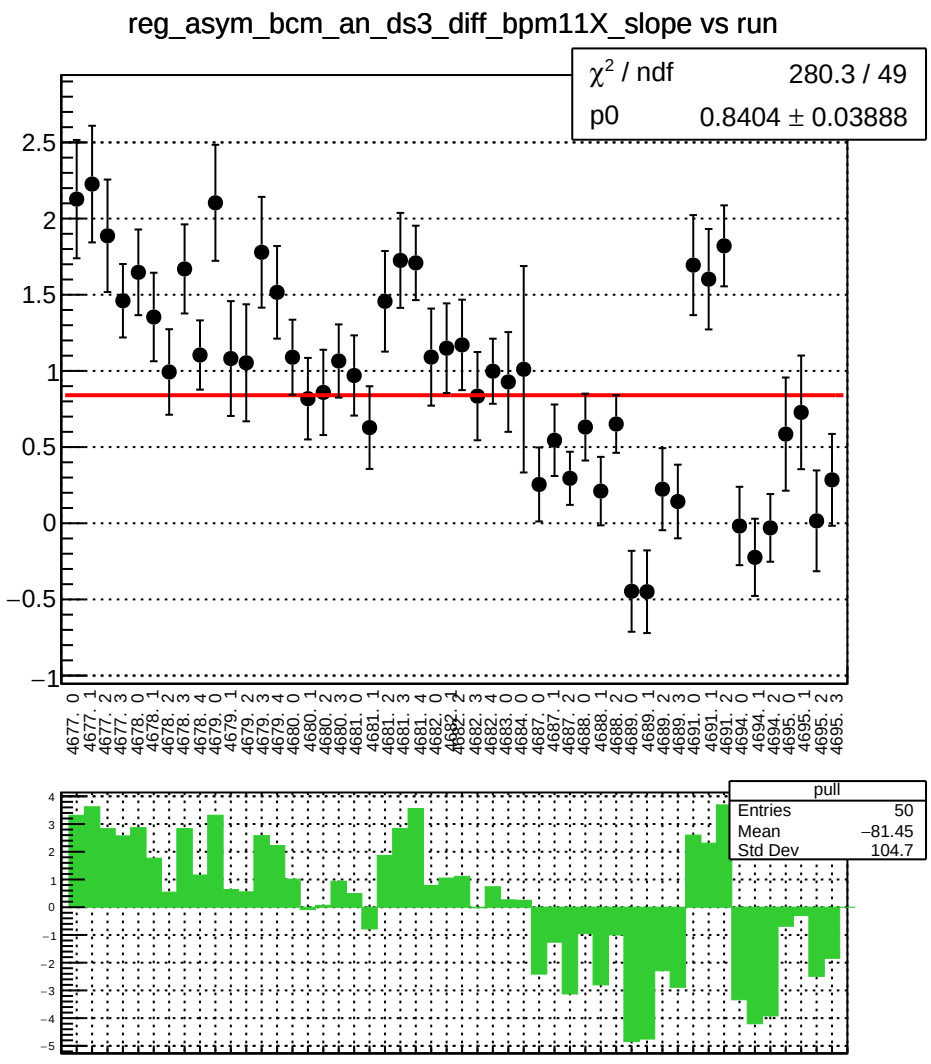

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 68.82 / 49
p0 2.544 ± 0.2668
pull
Entries 50
Mean 152.1
Std Dev 120.1

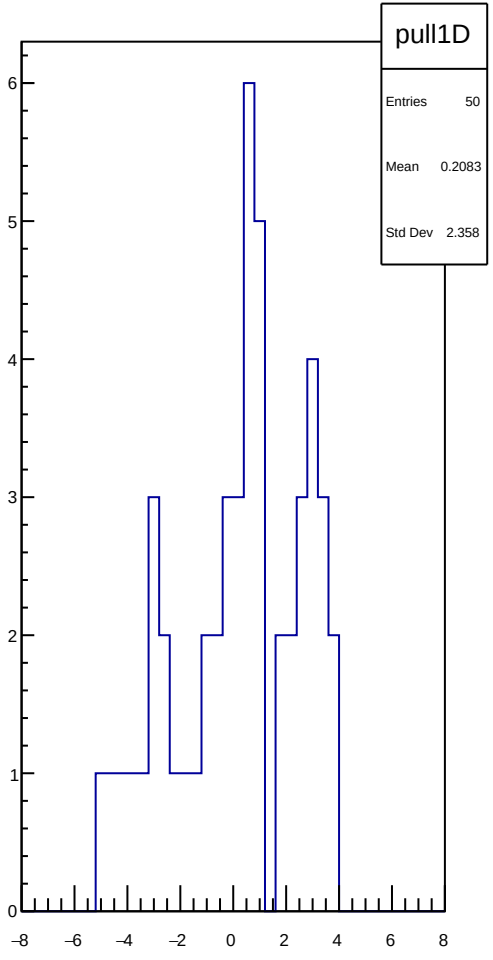

pull1D
Entries 50
Mean 0.04641
Std Dev 1.172

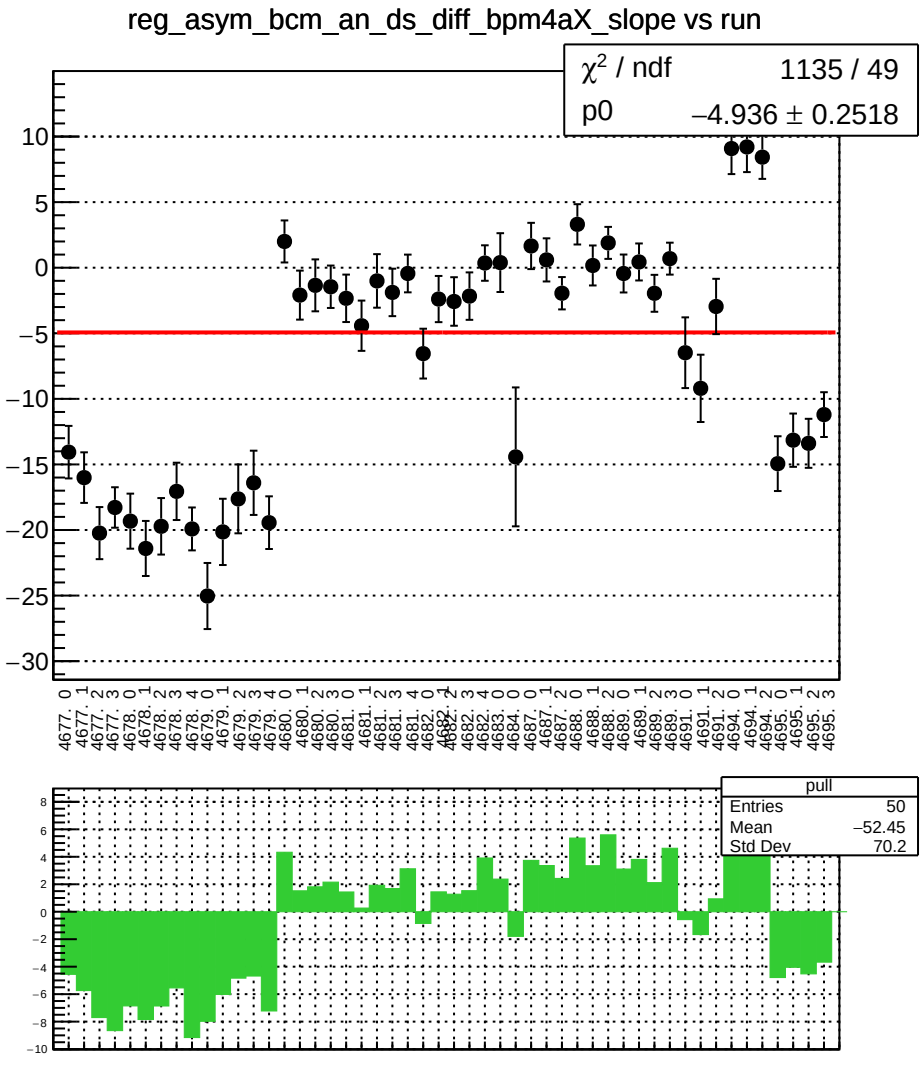

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 1418 / 49
p0 2.197 ± 0.06015
pull
Entries 50
Mean −62.26
Std Dev 81.39
pull1D
Entries 50
Mean −0.236
Std Dev 3.854

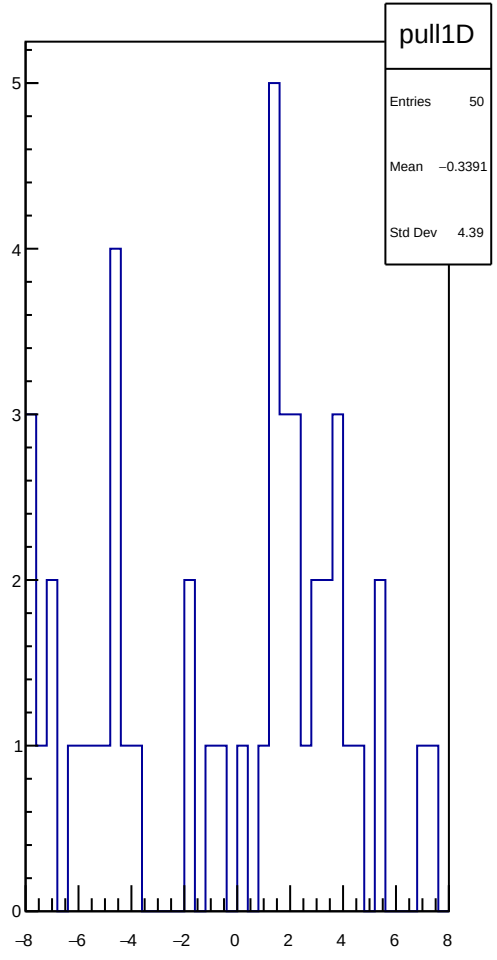

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 86.73 / 49
p0 −4.922 ± 0.3536
pull
Entries 50
Mean 10.07
Std Dev 44.46

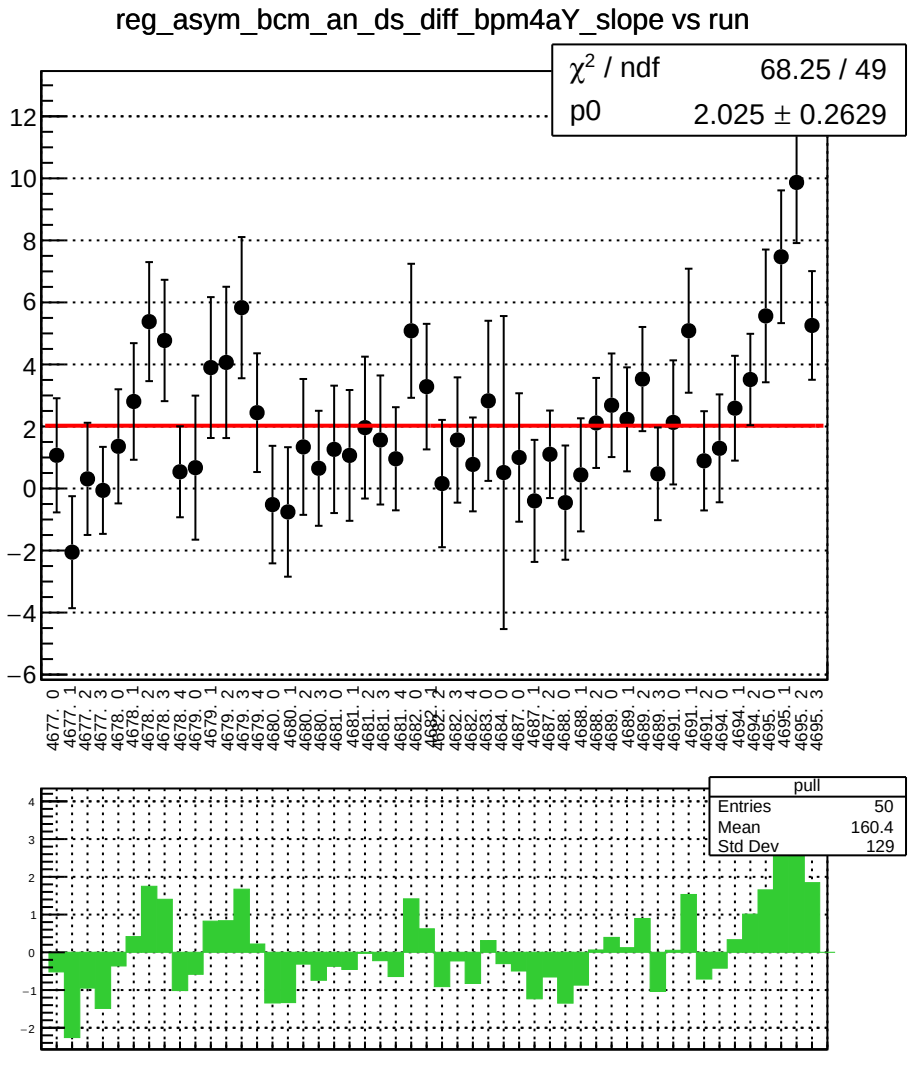

pull1D
Entries 50
Mean −0.05503
Std Dev 1.316

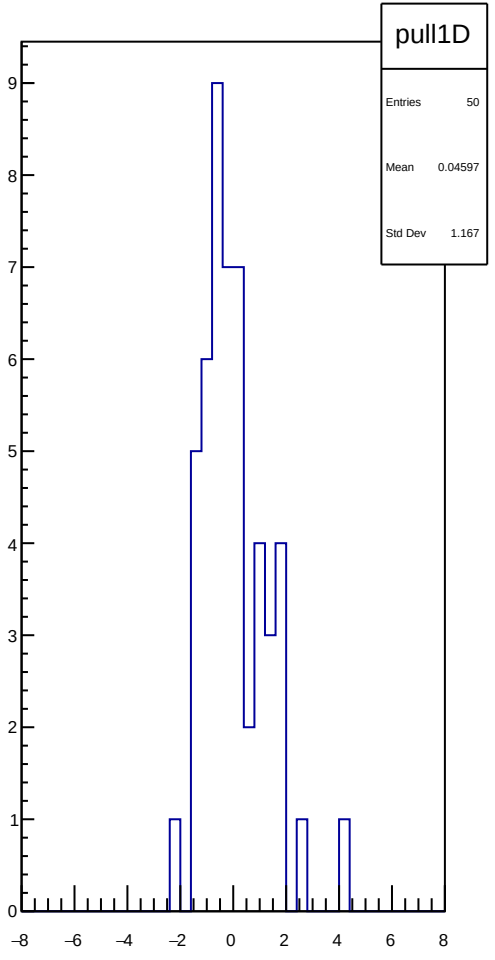

reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 280.3 / 49
p0 0.8404 ± 0.03888
pull
Entries 50
Mean −81.45
Std Dev 104.7

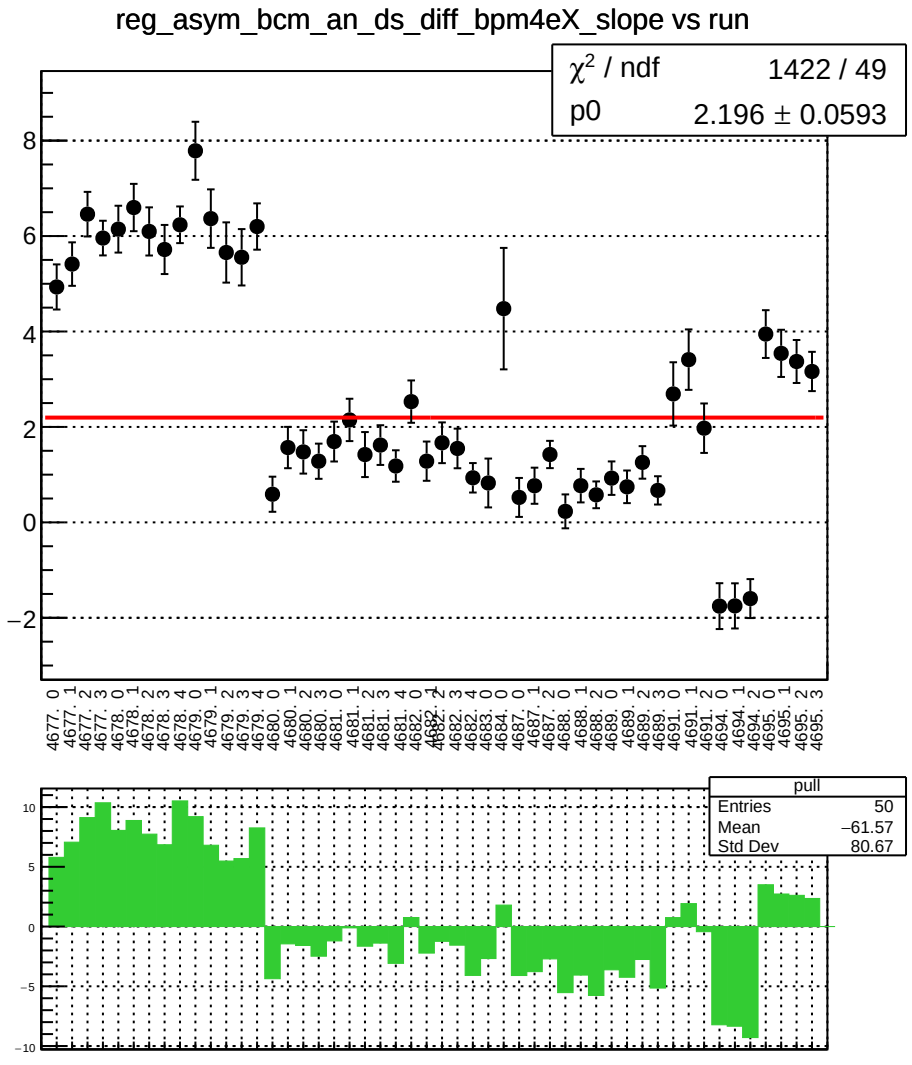

pull1D
Entries 50
Mean 0.2083
Std Dev 2.358

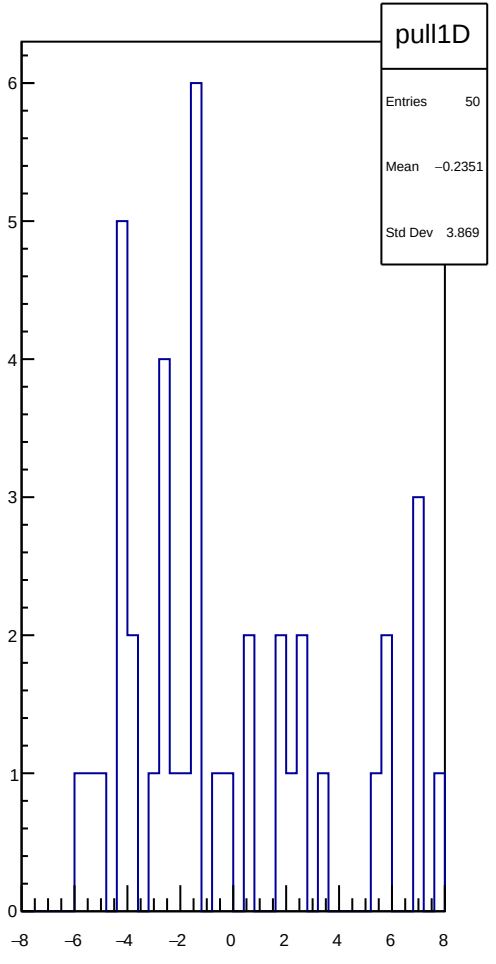

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 1135 / 49
p0 −4.936 ± 0.2518
pull
Entries 50
Mean −52.45
Std Dev 70.2

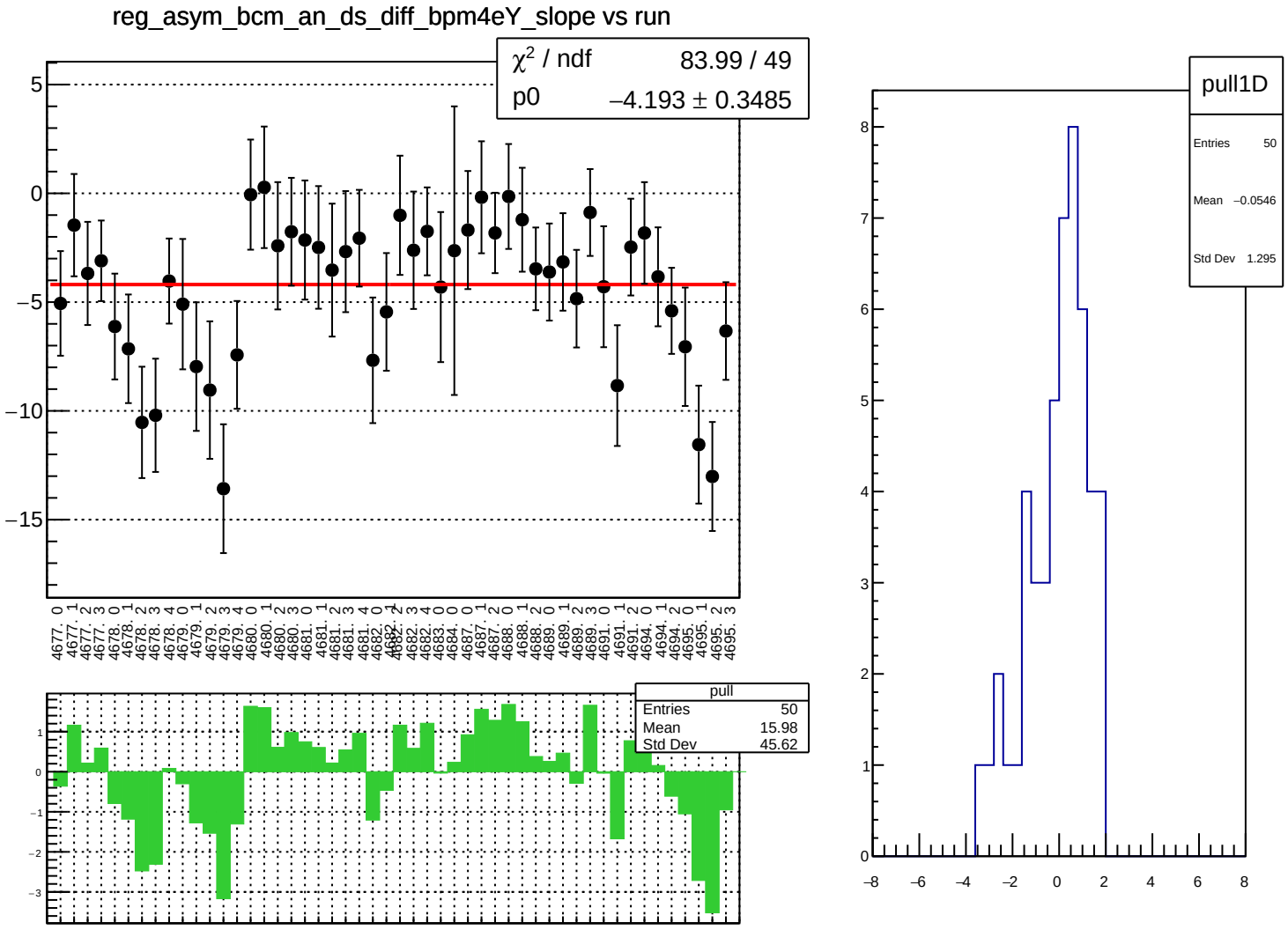

pull1D
Entries 50
Mean −0.3391
Std Dev 4.39

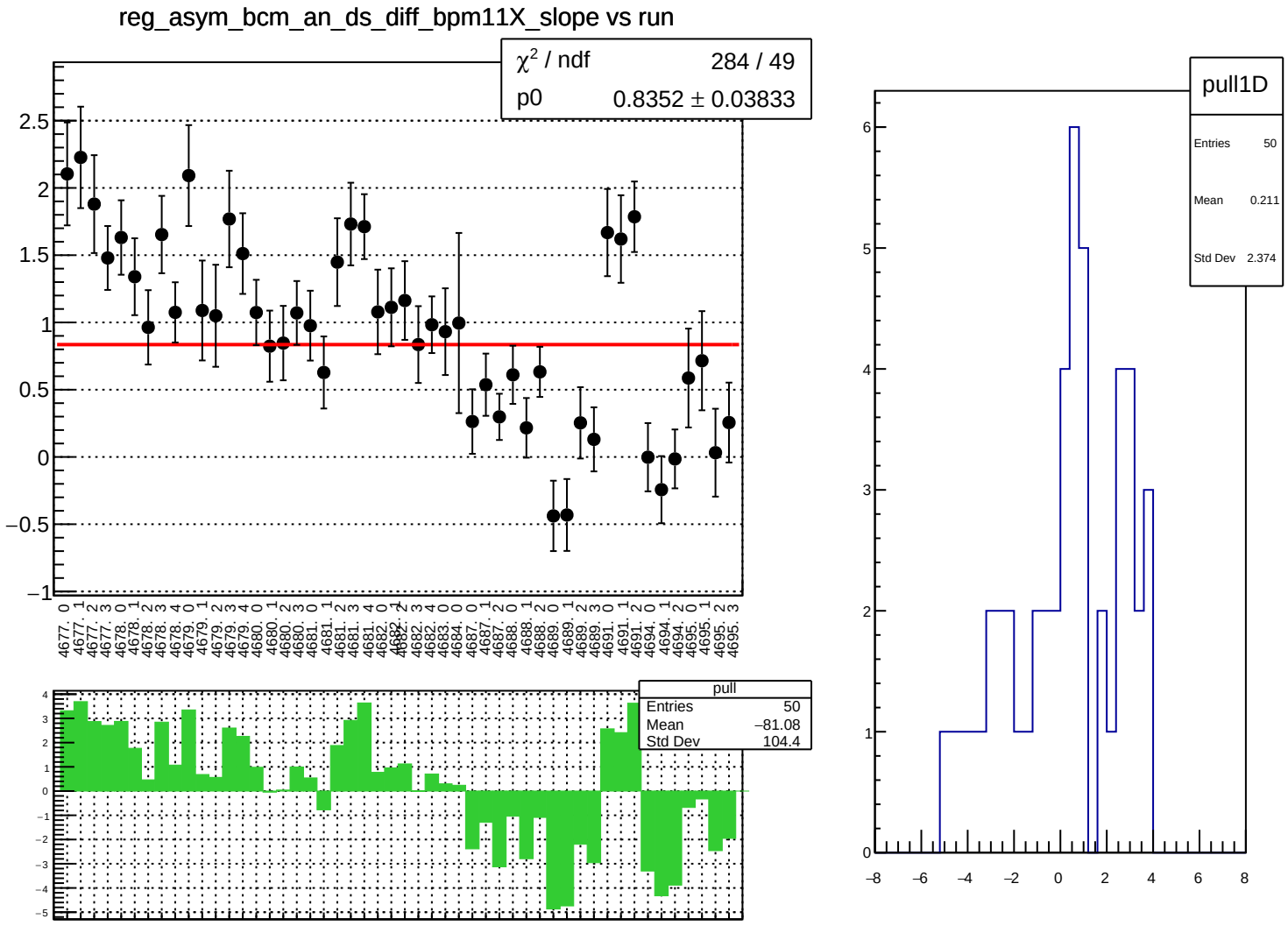

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 68.25 / 49
p0 2.025 ± 0.2629
pull
Entries 50
Mean 160.4
Std Dev 129

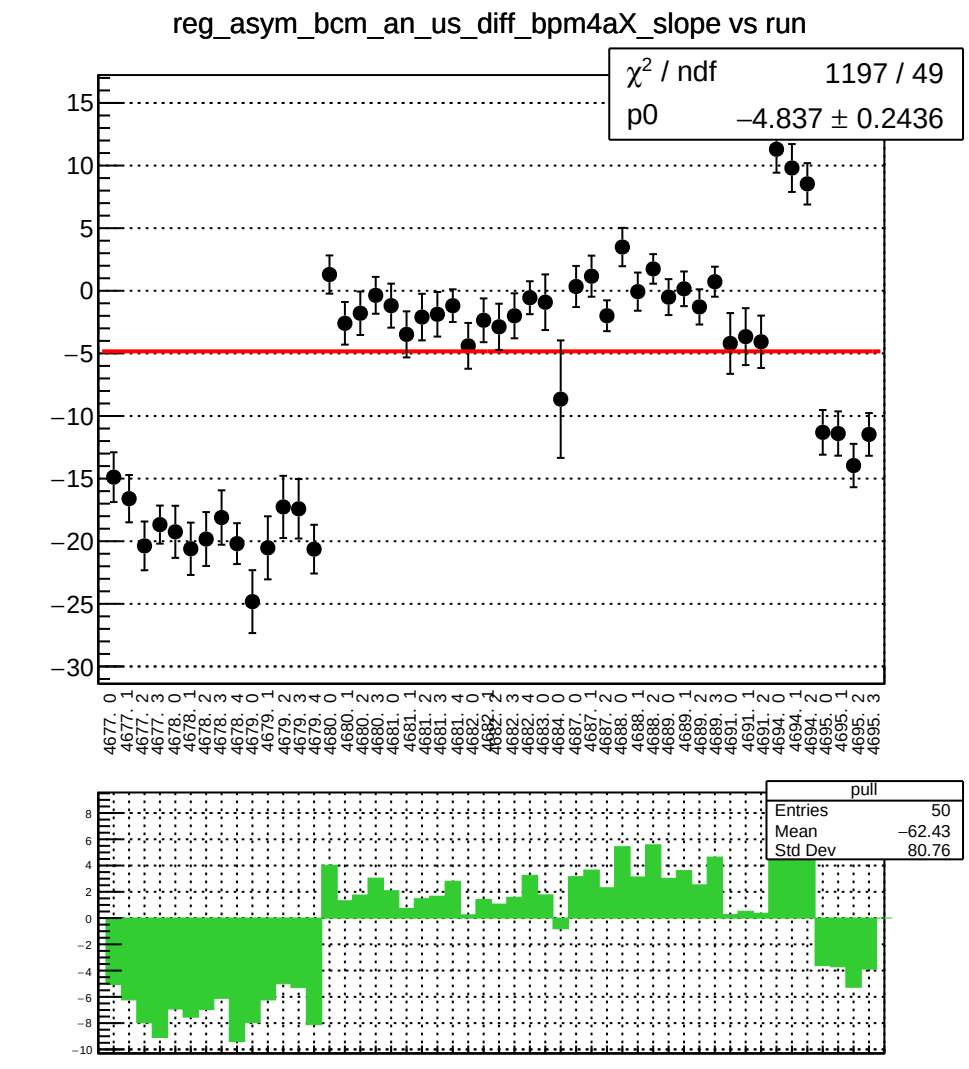

pull1D
Entries 50
Mean 0.04597
Std Dev 1.167

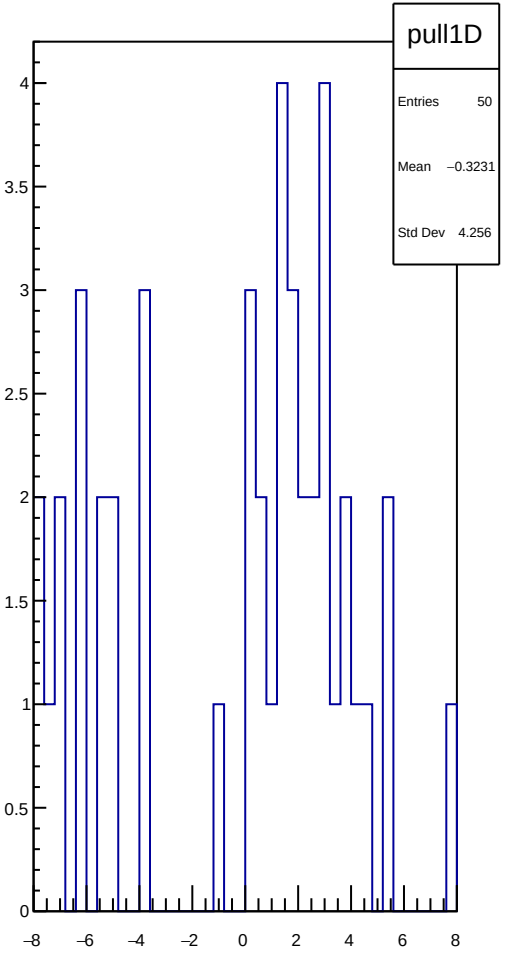

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 1422 / 49
p0 2.196 ± 0.0593
pull
Entries 50
Mean −61.57
Std Dev 80.67

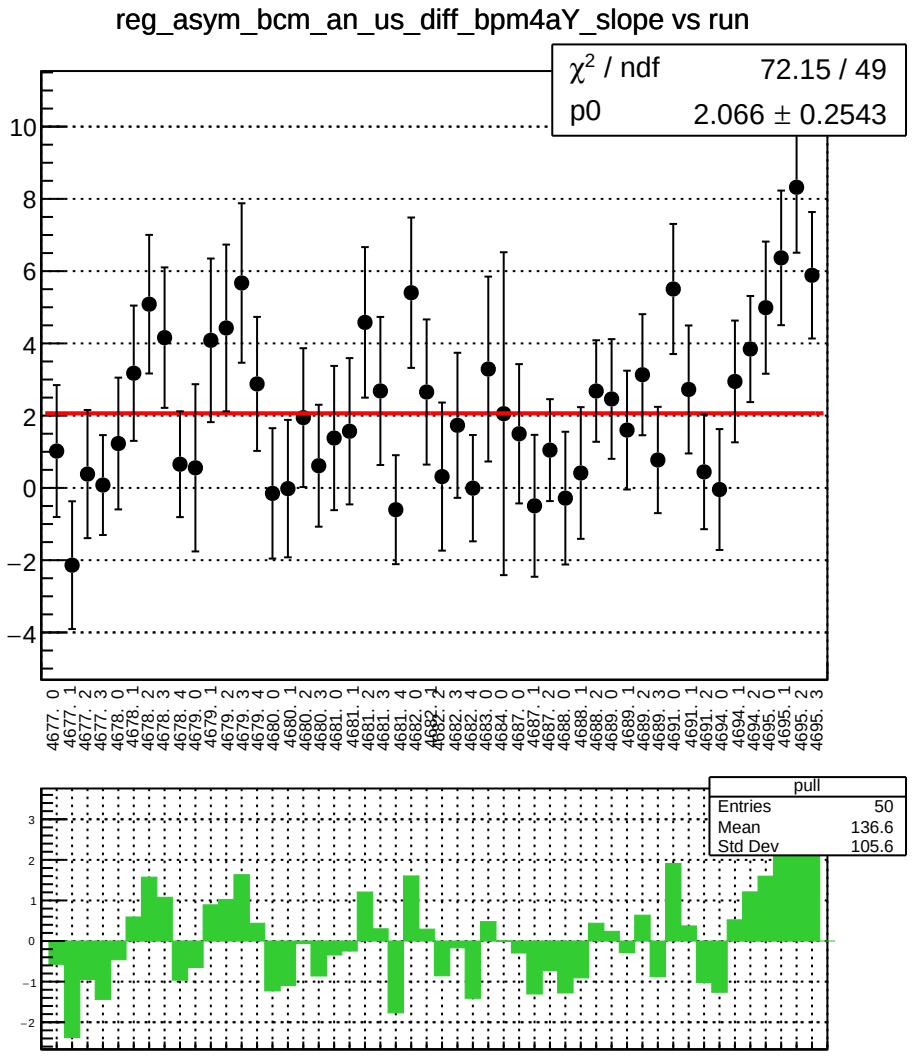

pull1D
Entries 50
Mean −0.2351
Std Dev 3.869

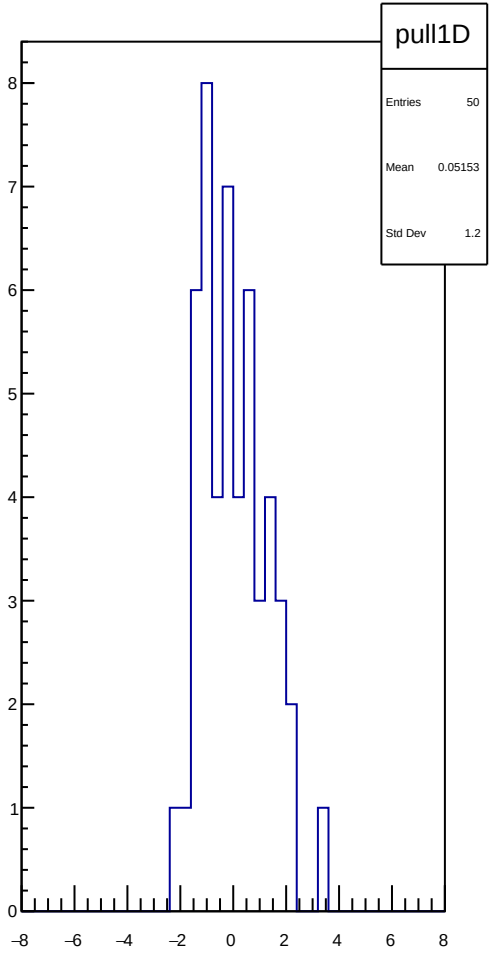

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 83.99 / 49
p0 −4.193 ± 0.3485
pull
Entries 50
Mean 15.98
Std Dev 45.62
pull1D
Entries 50
Mean −0.0546
Std Dev 1.295


reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 284 / 49
p0 0.8352 ± 0.03833
pull
Entries 50
Mean −81.08
Std Dev 104.4
pull1D
Entries 50
Mean 0.211
Std Dev 2.374

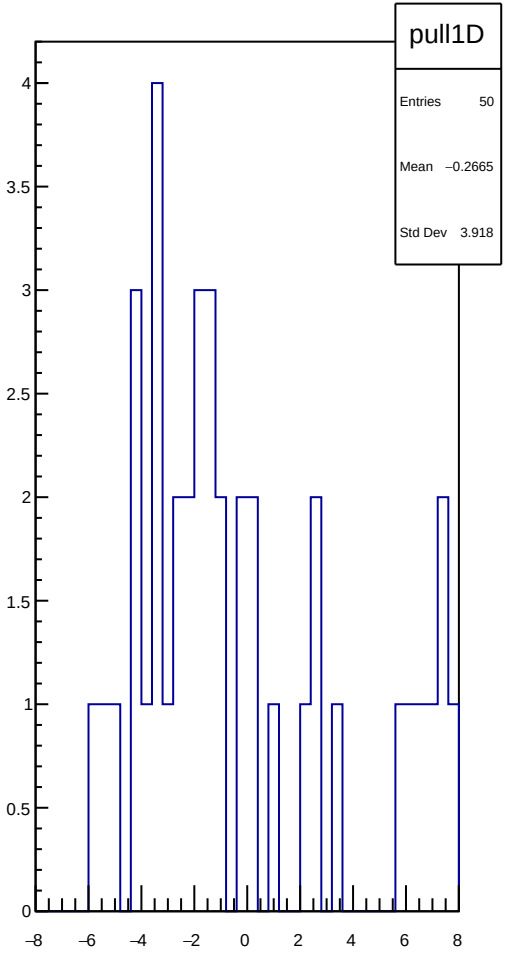

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 1197 / 49
p0 −4.837 ± 0.2436
pull
Entries 50
Mean −62.43
Std Dev 80.76

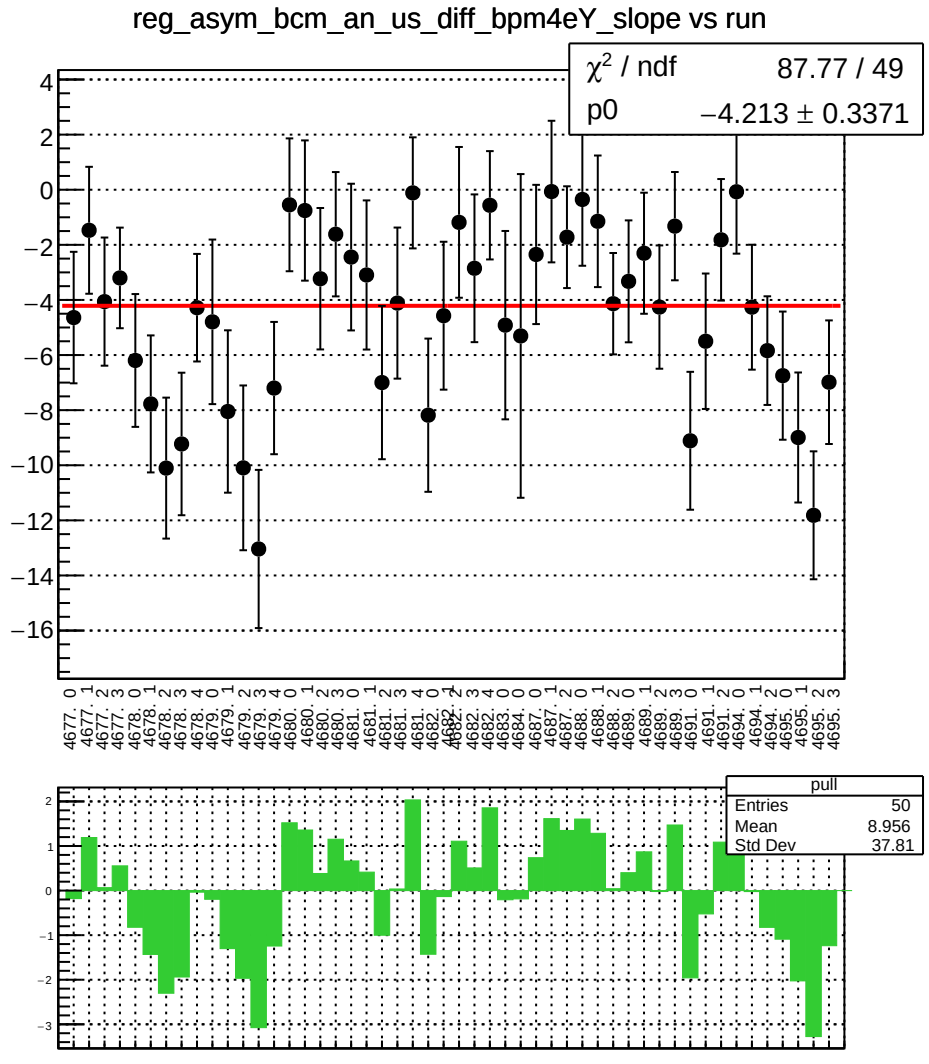

pull1D
Entries 50
Mean −0.3231
Std Dev 4.256

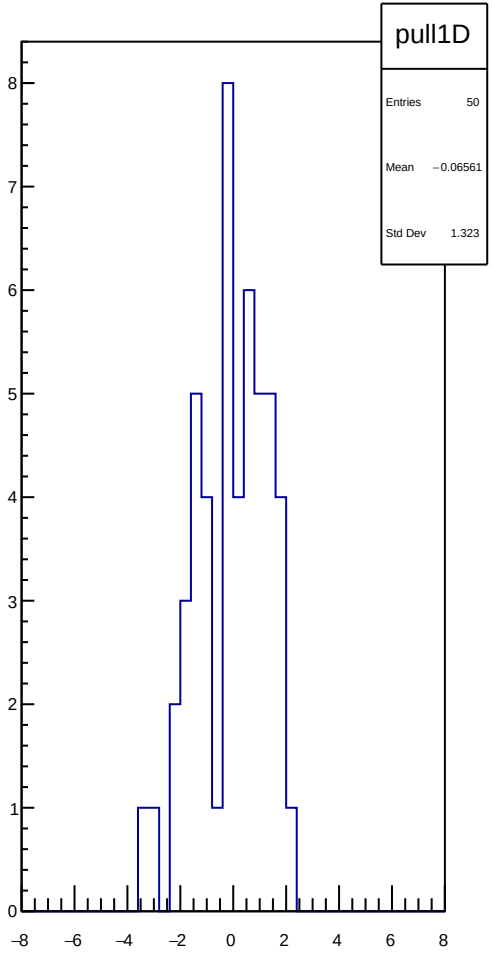

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 72.15 / 49
p0 2.066 ± 0.2543
pull
Entries 50
Mean 136.6
Std Dev 105.6

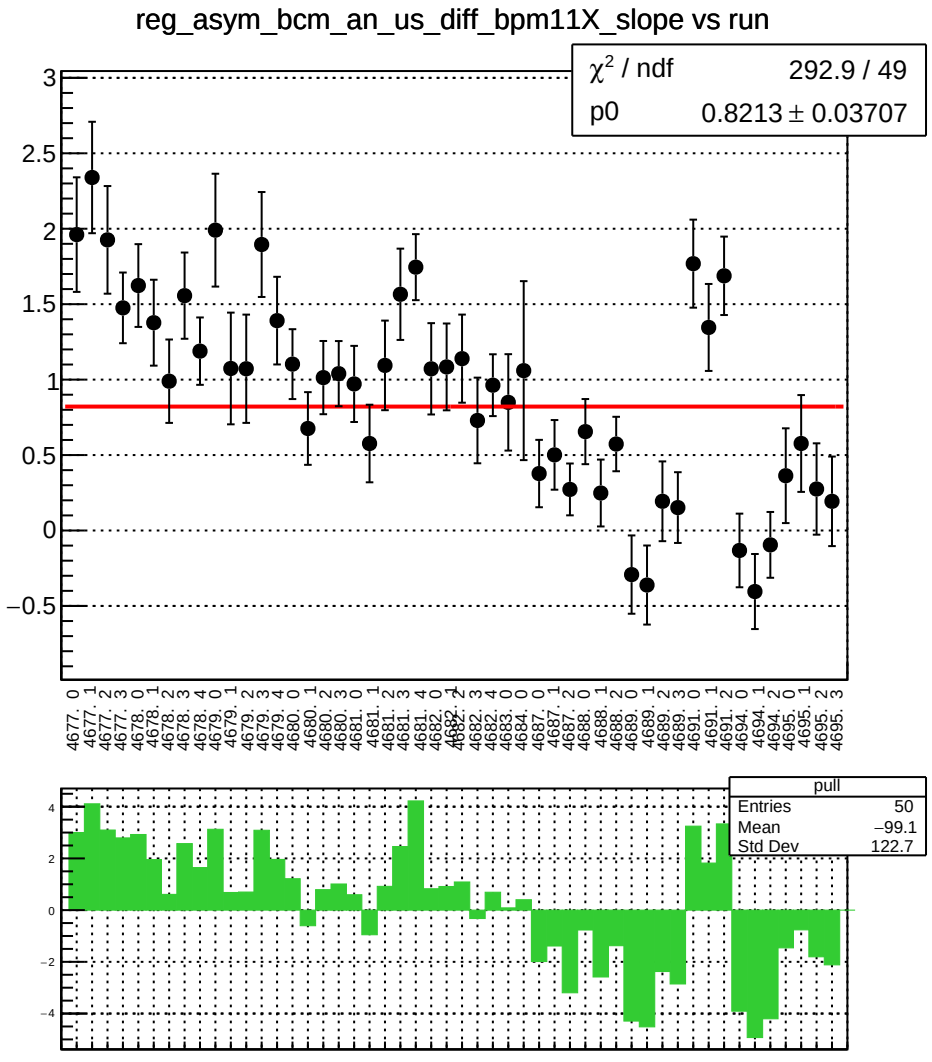

pull1D
Entries 50
Mean 0.05153
Std Dev 1.2

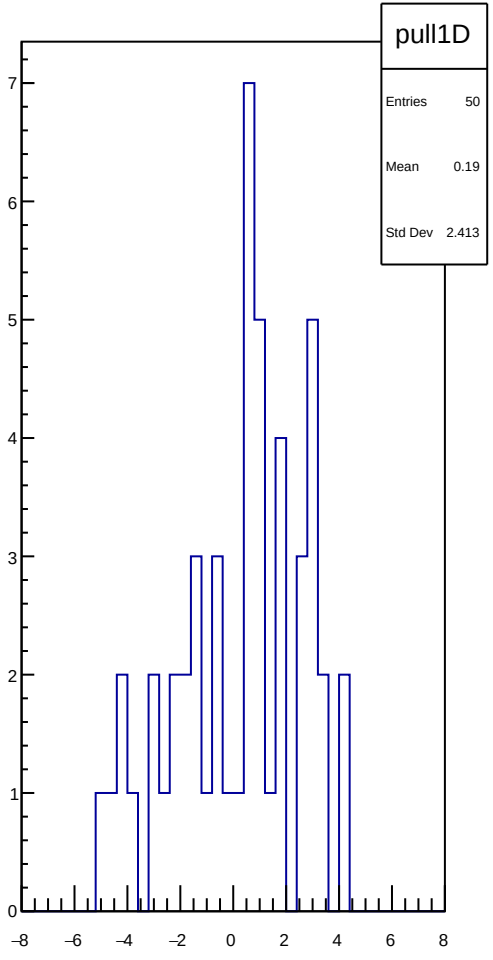
reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 1503 / 49
p0 2.161 ± 0.05734
pull
Entries 50
Mean −68.78
Std Dev 88.15

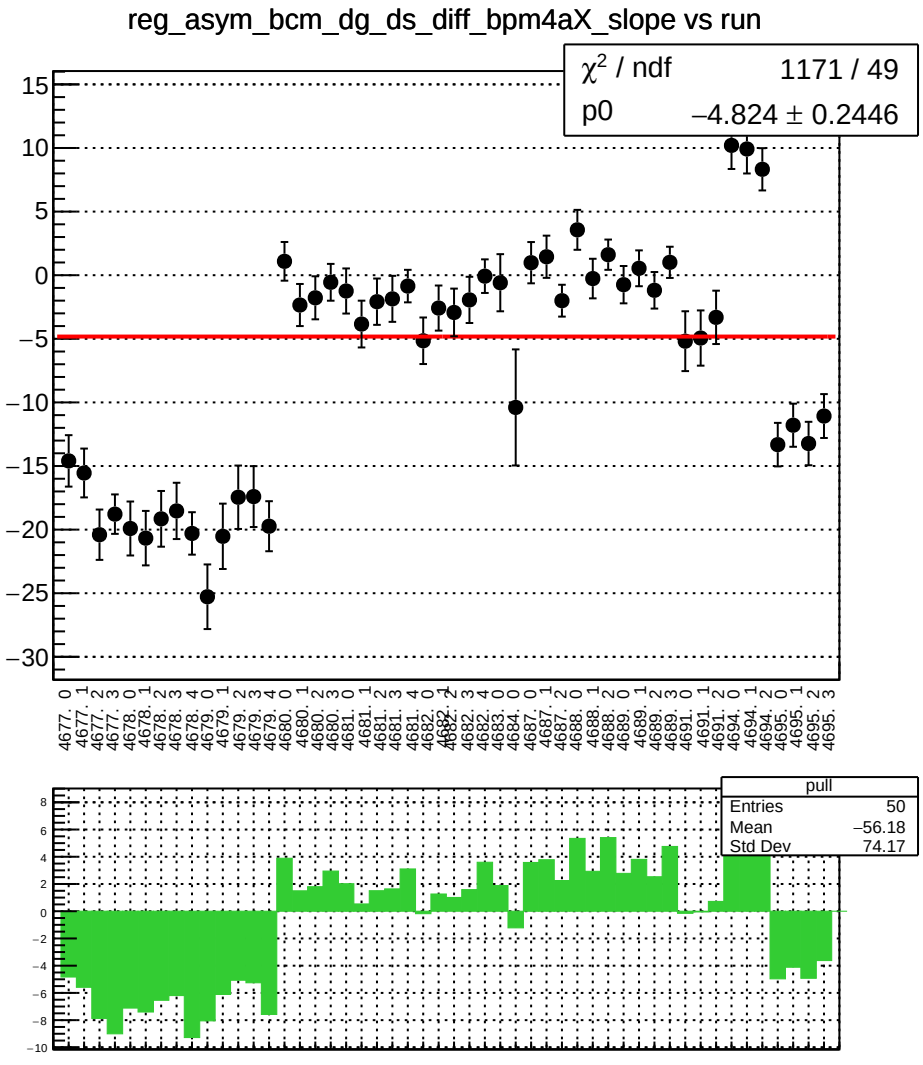

pull1D
Entries 50
Mean −0.2665
Std Dev 3.918

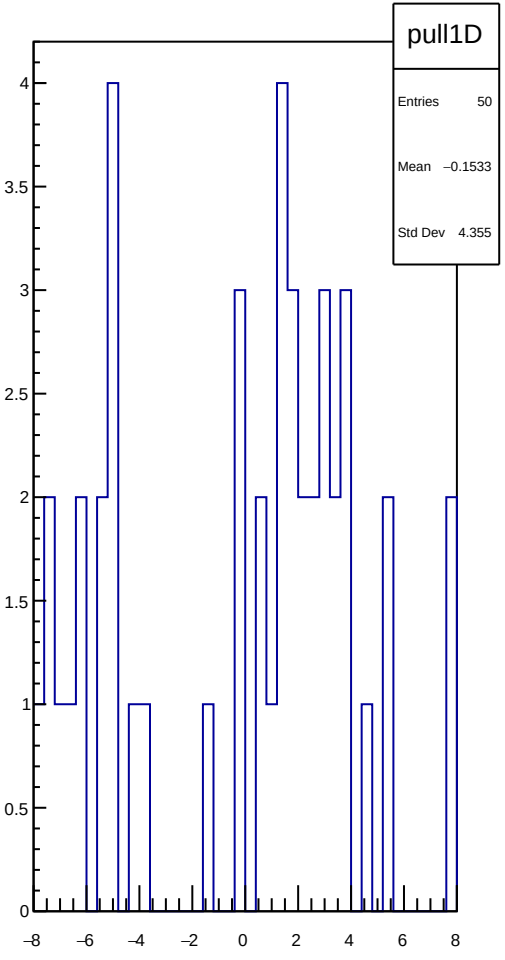

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 87.77 / 49
p0 −4.213 ± 0.3371
pull
Entries 50
Mean 8.956
Std Dev 37.81

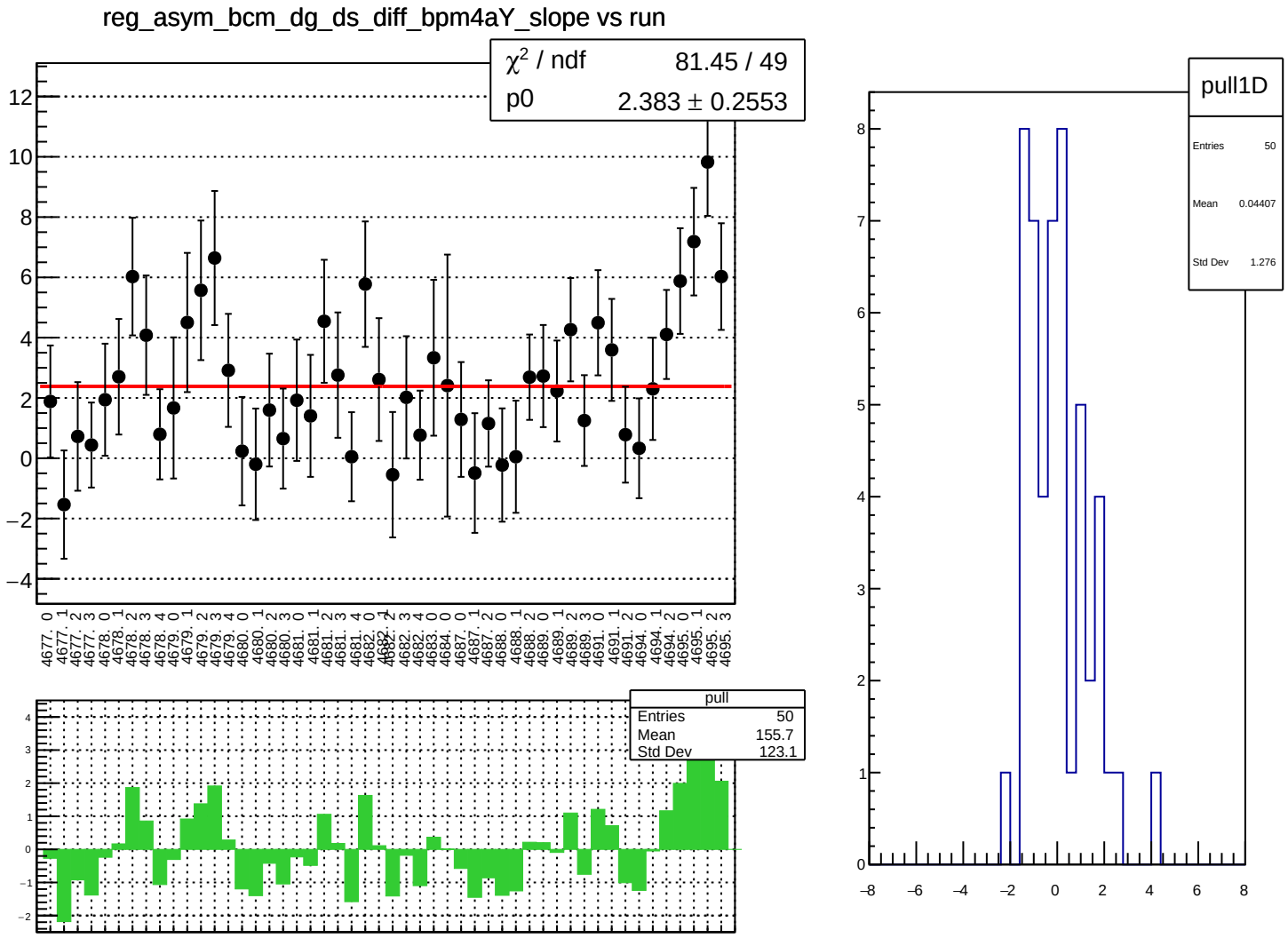

pull1D
Entries 50
Mean −0.06561
Std Dev 1.323

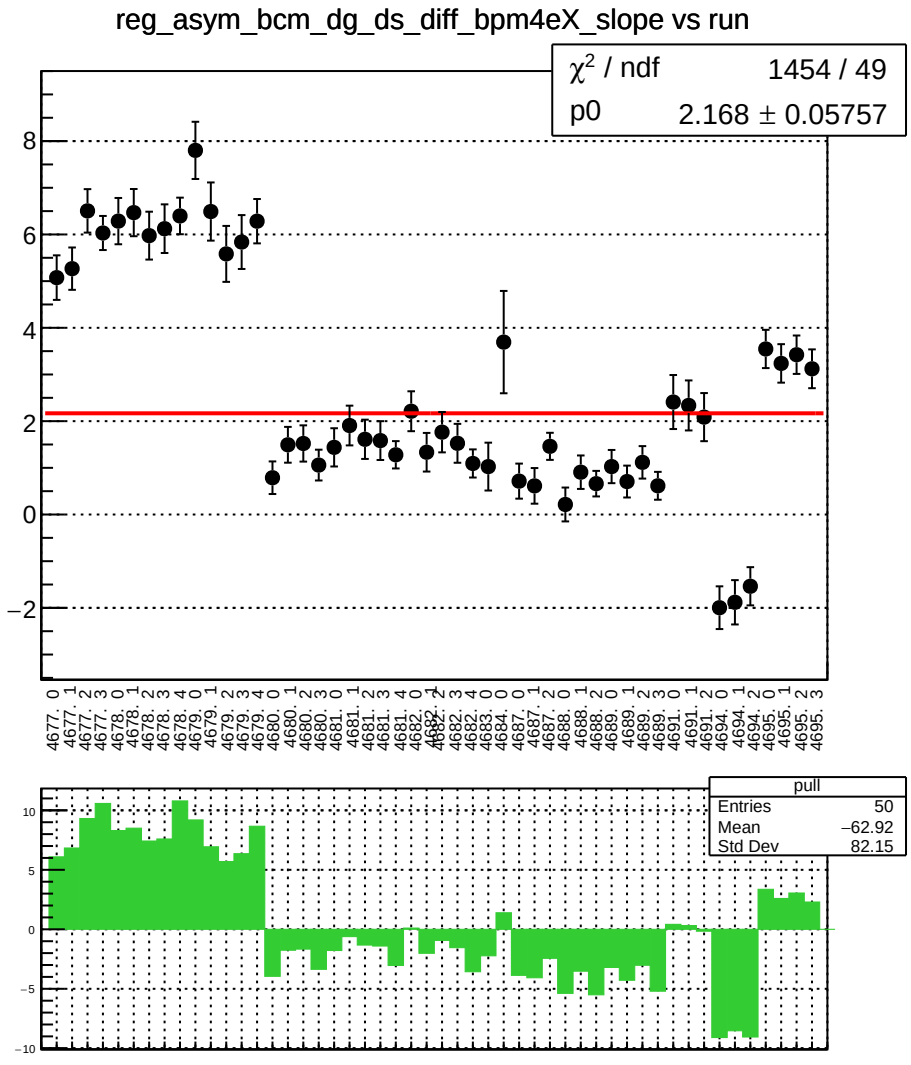

reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 292.9 / 49
p0 0.8213 ± 0.03707
pull
Entries 50
Mean −99.1
Std Dev 122.7

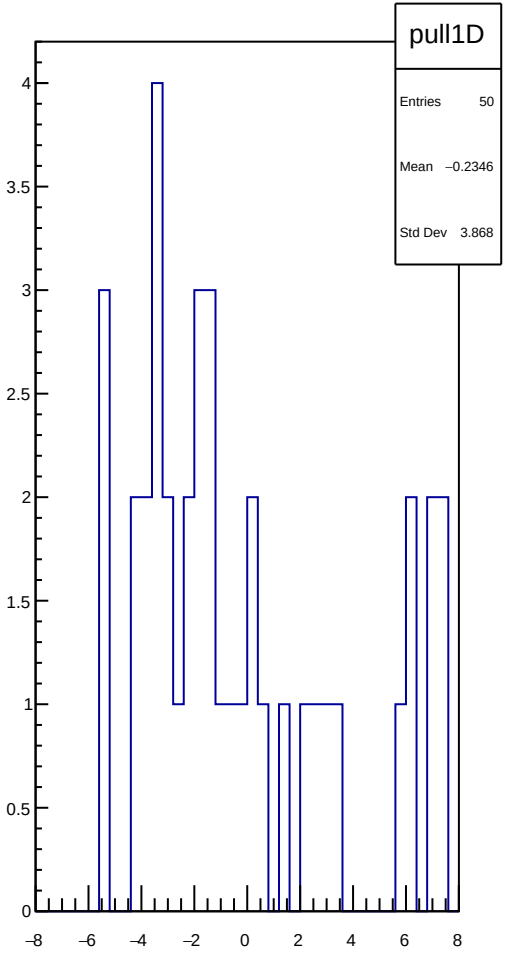

pull1D
Entries 50
Mean 0.19
Std Dev 2.413

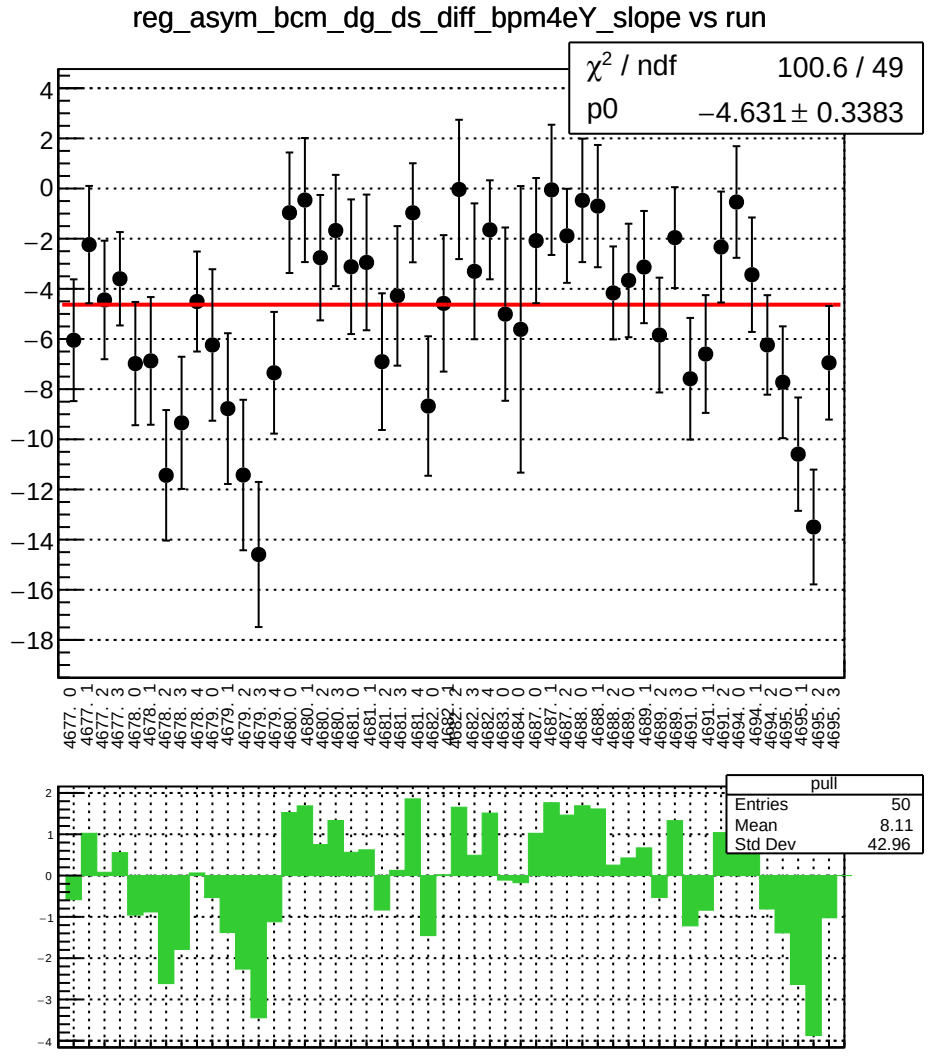

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 1171 / 49
p0 −4.824 ± 0.2446
pull
Entries 50
Mean −56.18
Std Dev 74.17

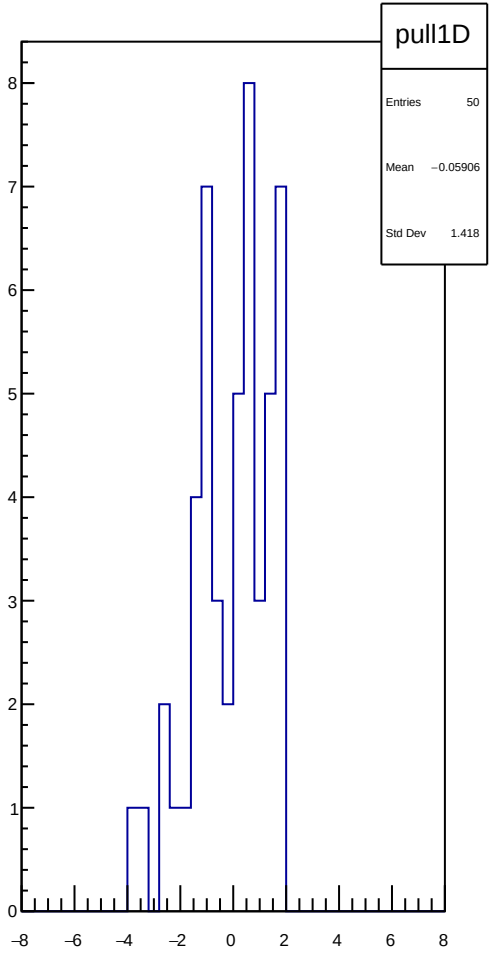

pull1D
Entries 50
Mean −0.1533
Std Dev 4.355

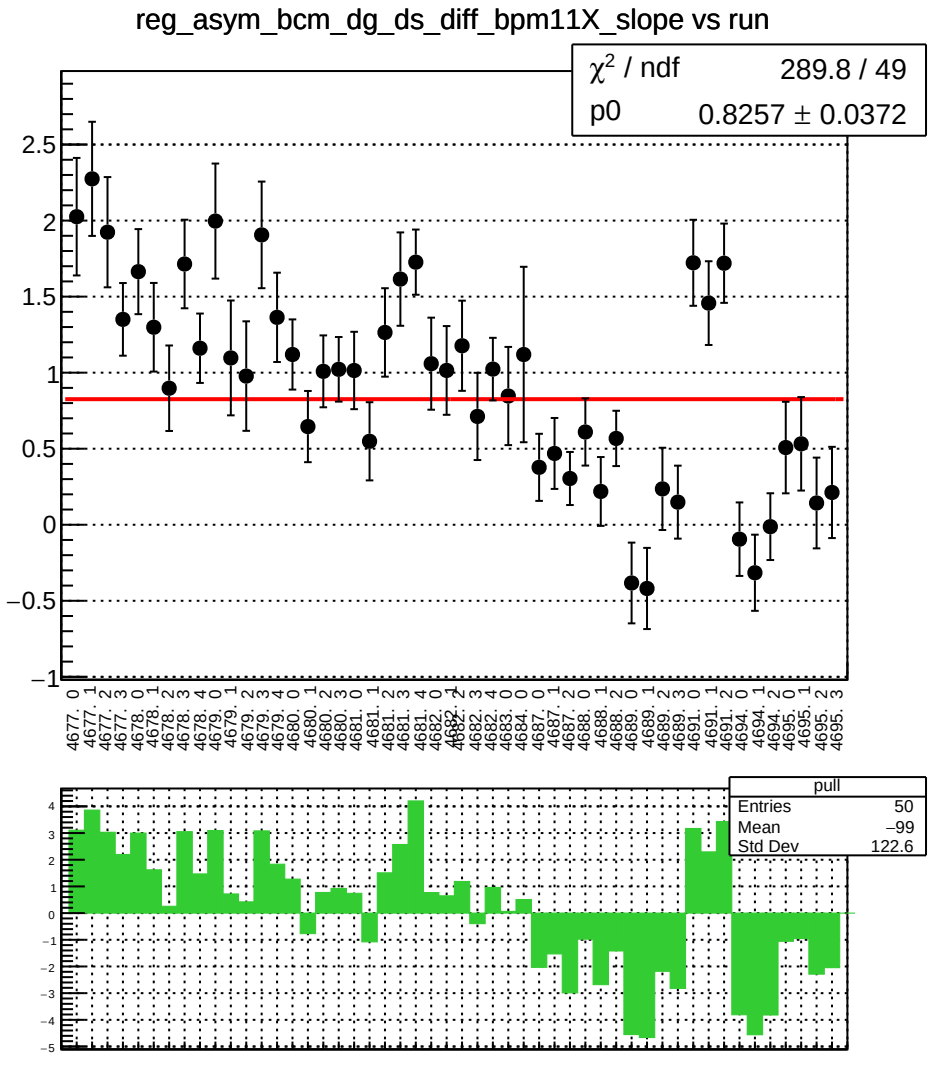

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 81.45 / 49
p0 2.383 ± 0.2553
pull
Entries 50
Mean 155.7
Std Dev 123.1
pull1D
Entries 50
Mean 0.04407
Std Dev 1.276

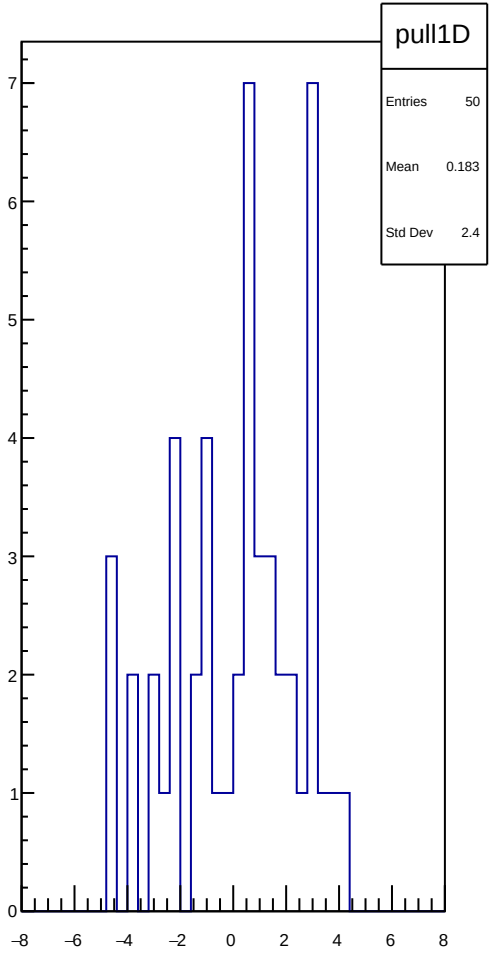

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 1454 / 49
p0 2.168 ± 0.05757
pull
Entries 50
Mean −62.92
Std Dev 82.15

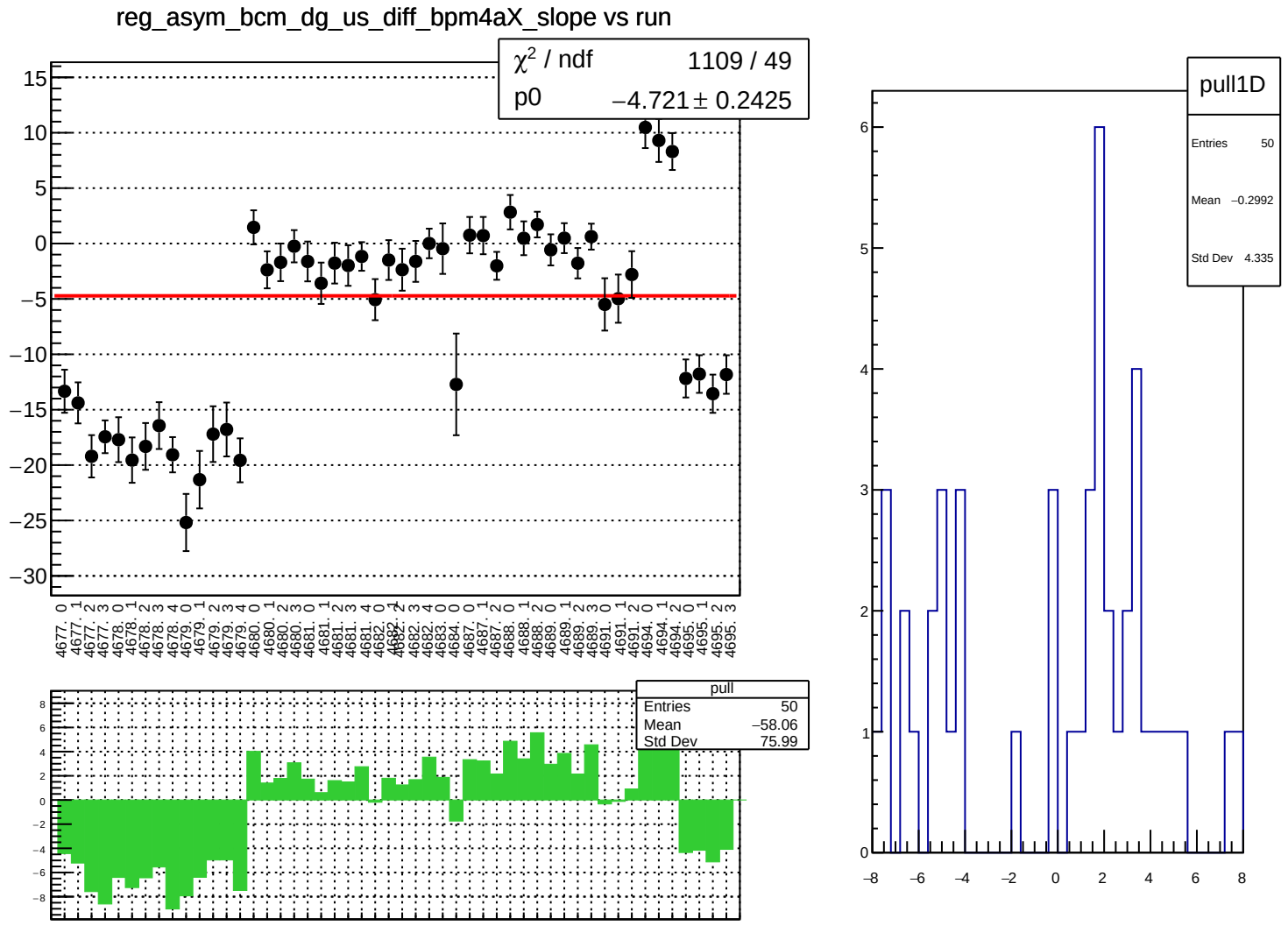

pull1D
Entries 50
Mean −0.2346
Std Dev 3.868

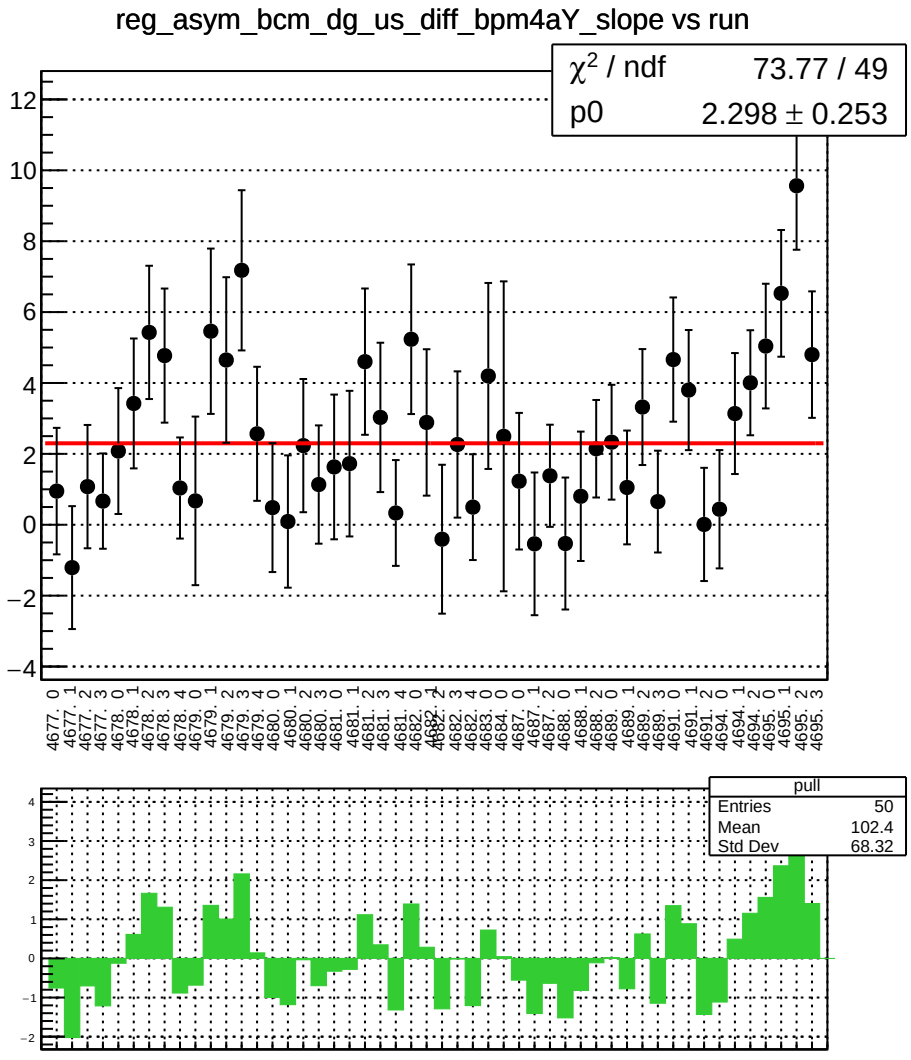

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 100.6 / 49
p0 −4.631 ± 0.3383
pull
Entries 50
Mean 8.11
Std Dev 42.96

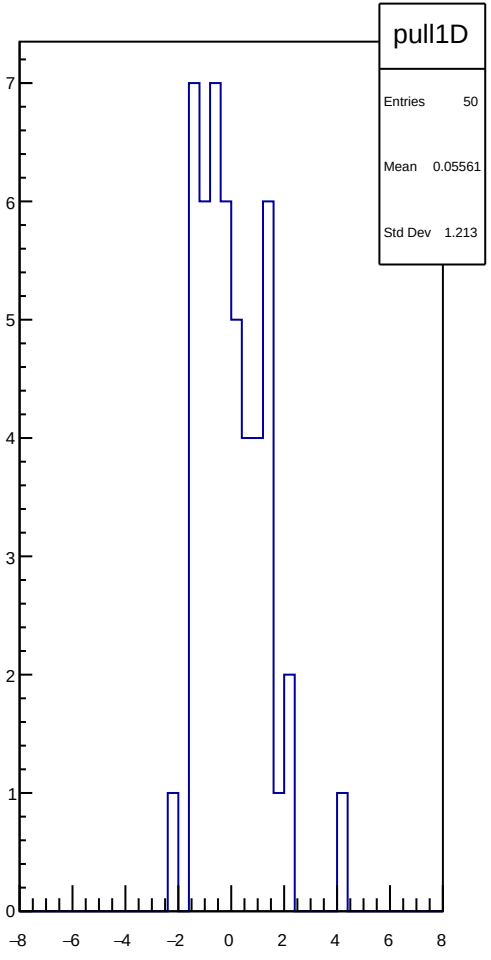

pull1D
Entries 50
Mean −0.05906
Std Dev 1.418

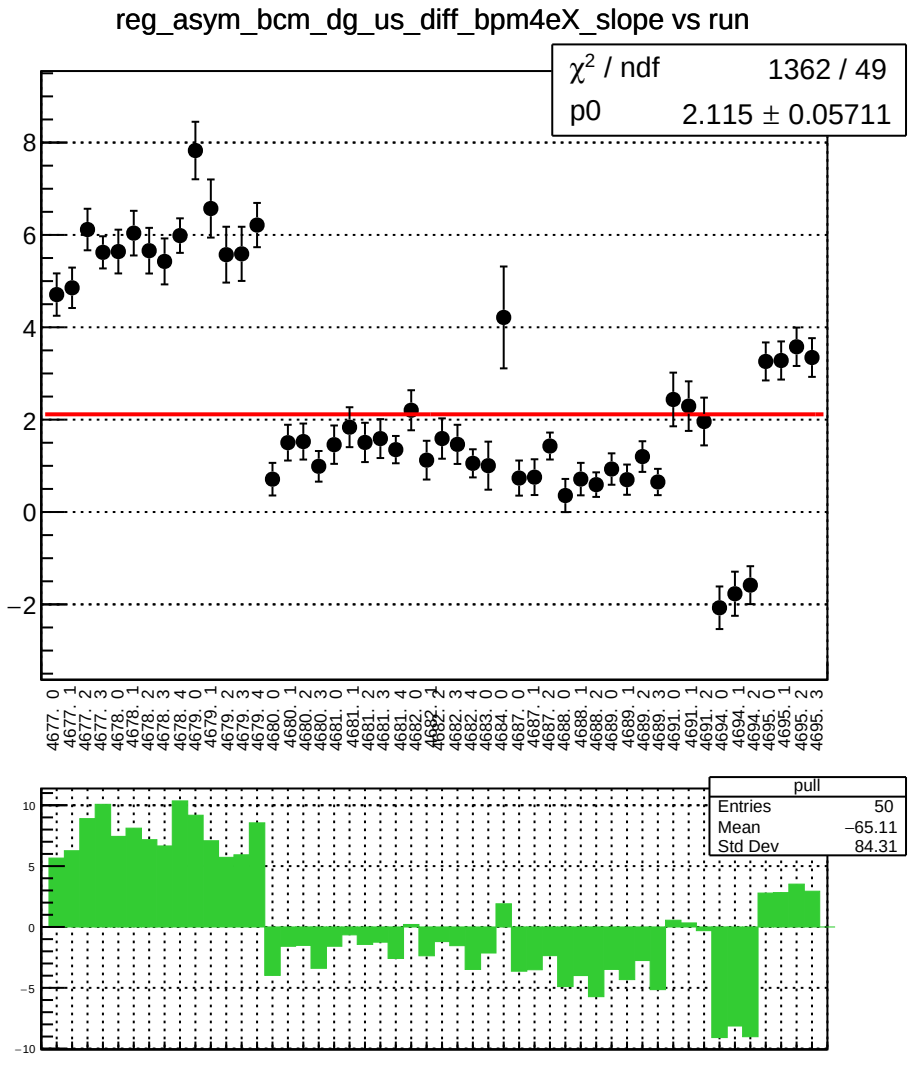

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 289.8 / 49
p0 0.8257 ± 0.0372
pull
Entries 50
Mean −99
Std Dev 122.6

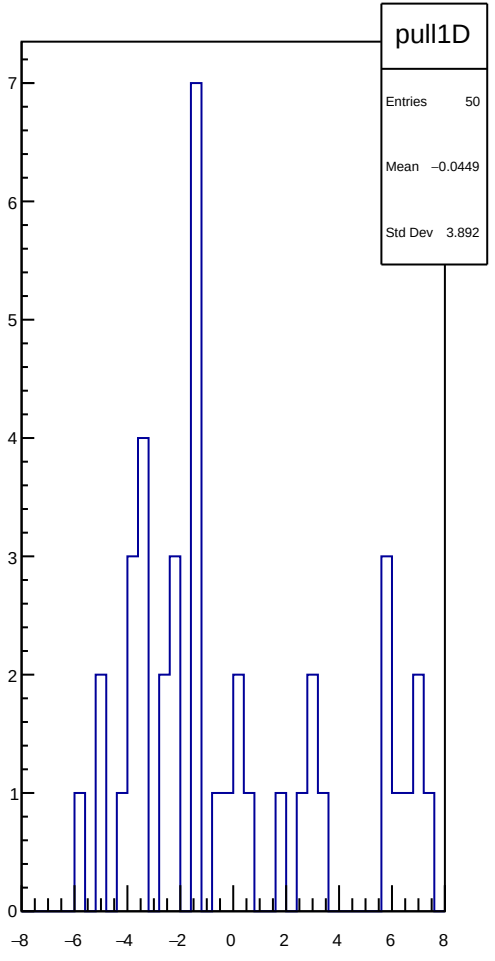

pull1D
Entries 50
Mean 0.183
Std Dev 2.4

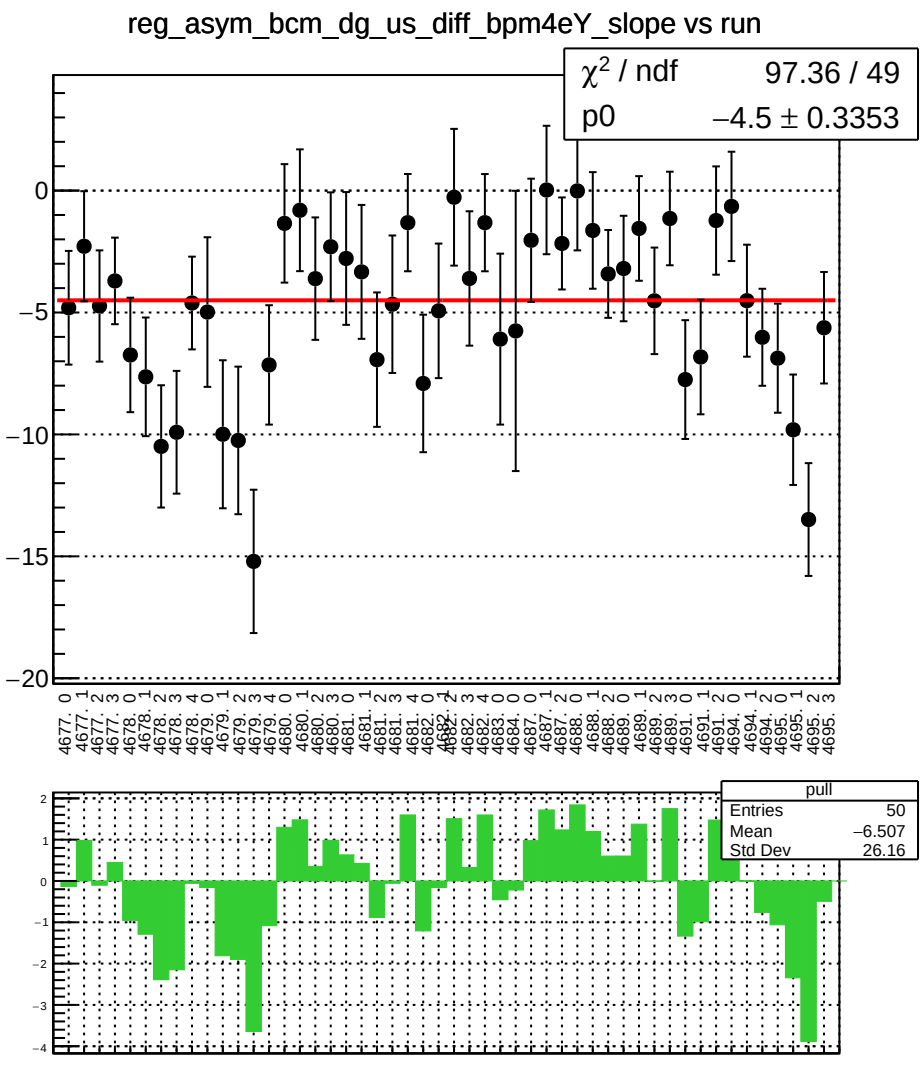

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 1109 / 49
p0 −4.721 ± 0.2425
pull
Entries 50
Mean −58.06
Std Dev 75.99
pull1D
Entries 50
Mean −0.2992
Std Dev 4.335

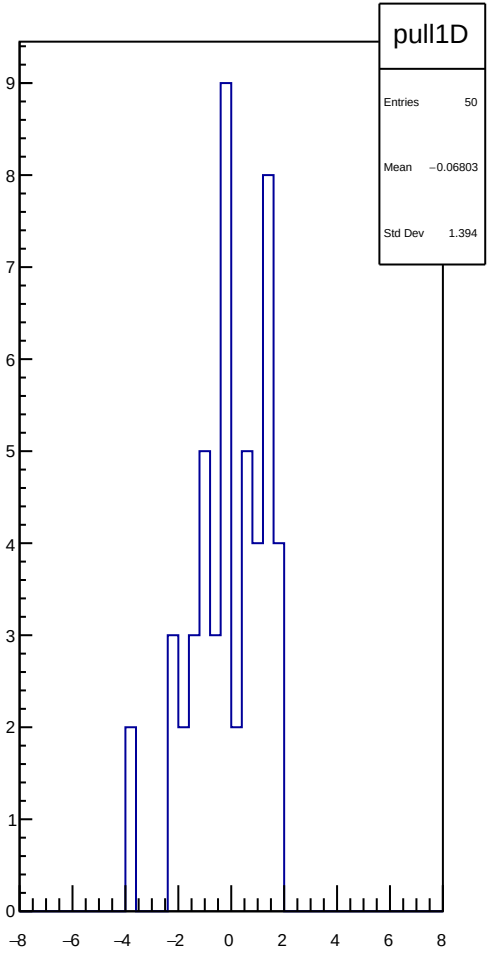

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 73.77 / 49
p0 2.298 ± 0.253
pull
Entries 50
Mean 102.4
Std Dev 68.32

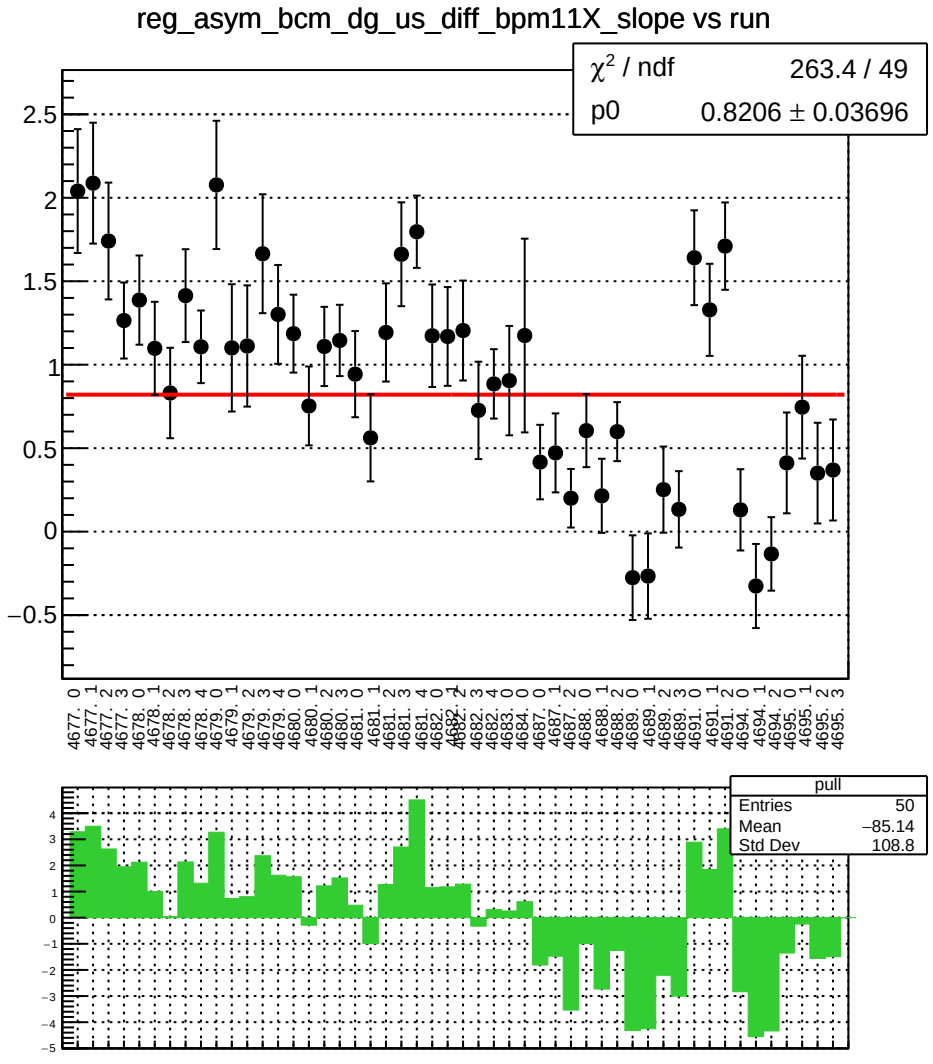

pull1D
Entries 50
Mean 0.05561
Std Dev 1.213

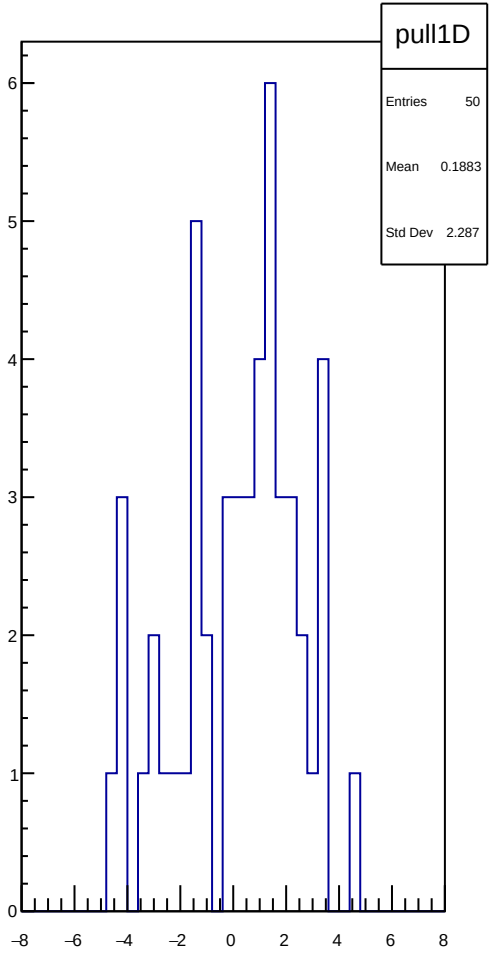

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 1362 / 49
p0 2.115 ± 0.05711
pull
Entries 50
Mean −65.11
Std Dev 84.31

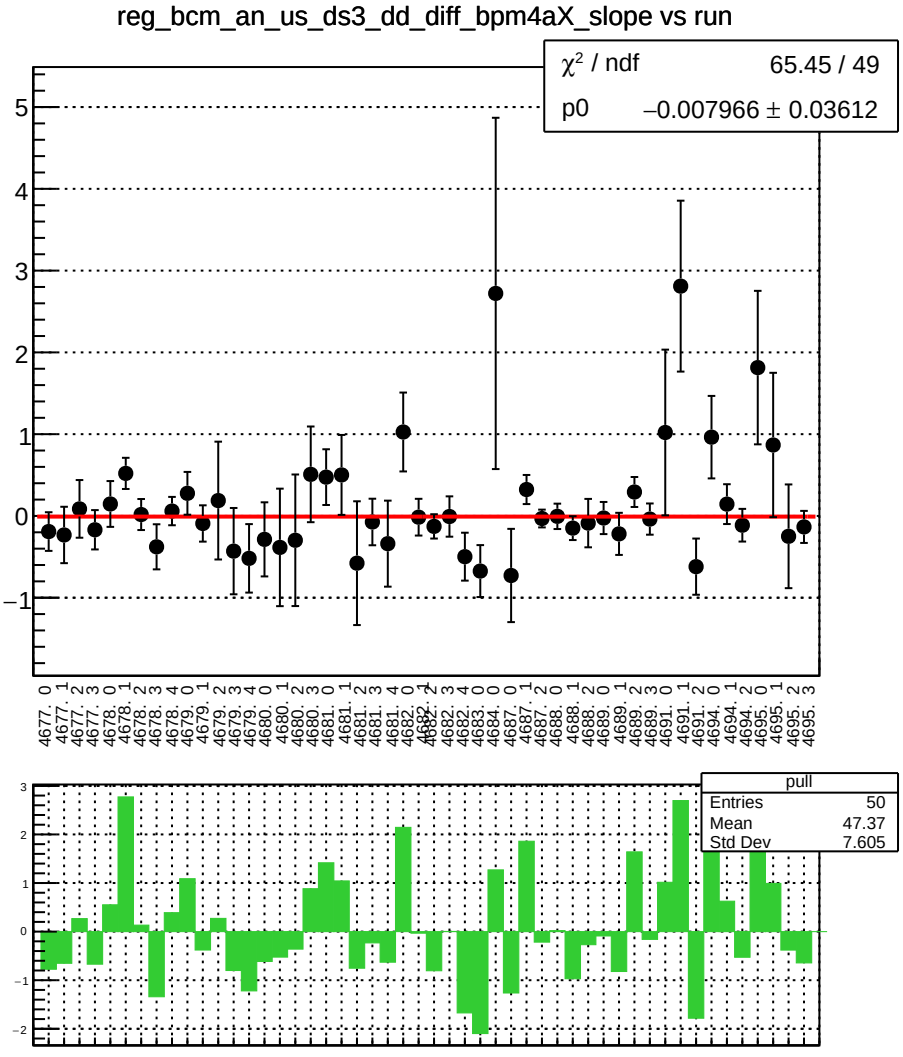

pull1D
Entries 50
Mean −0.0449
Std Dev 3.892

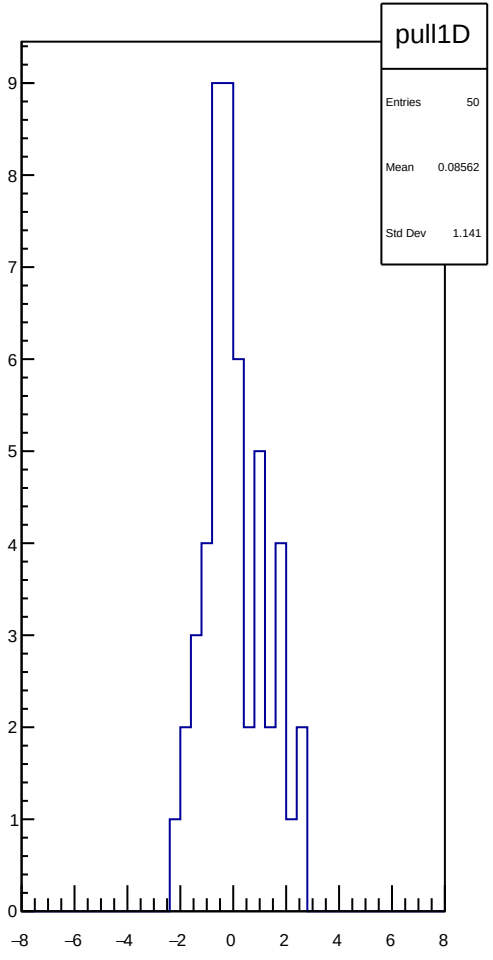

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 97.36 / 49
p0 −4.5 ± 0.3353
pull
Entries 50
Mean −6.507
Std Dev 26.16

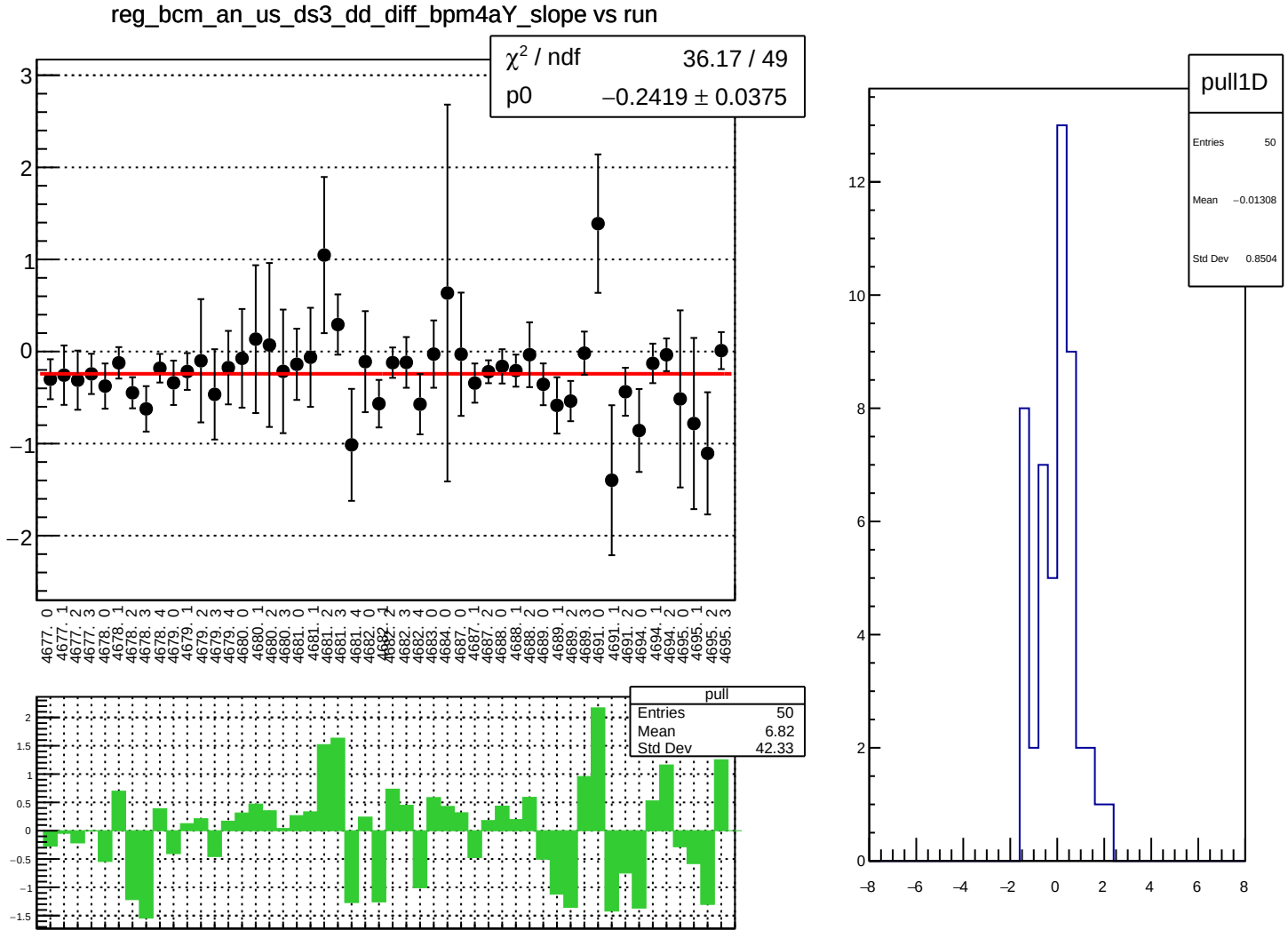

pull1D
Entries 50
Mean −0.06803
Std Dev 1.394

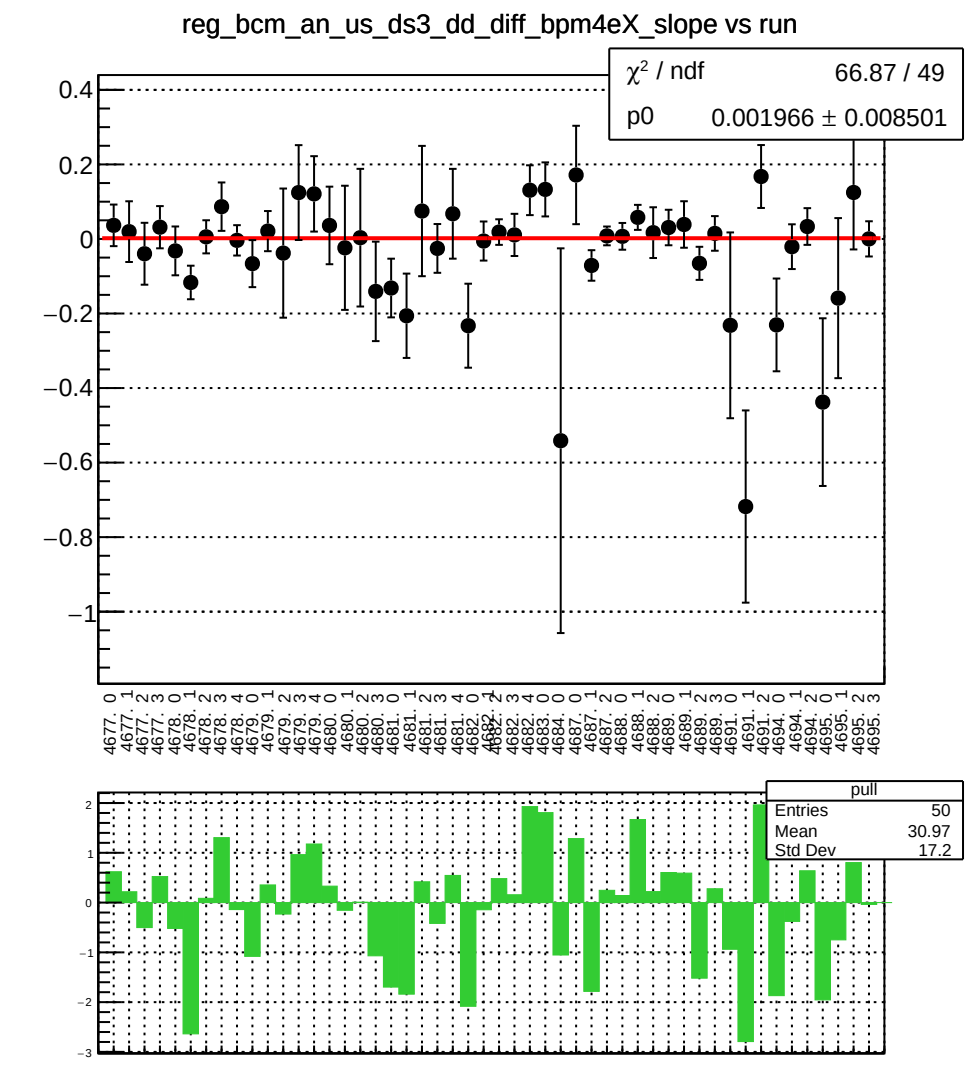

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 263.4 / 49
p0 0.8206 ± 0.03696
pull
Entries 50
Mean −85.14
Std Dev 108.8

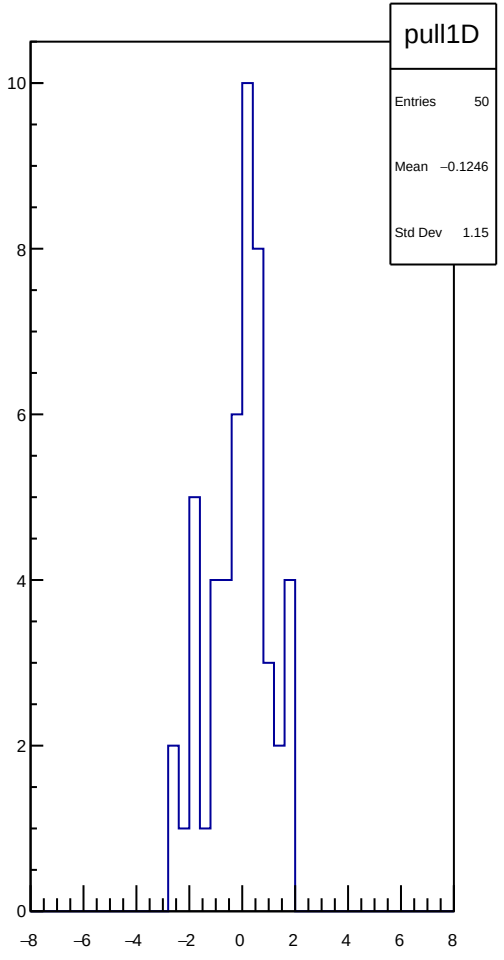

pull1D
Entries 50
Mean 0.1883
Std Dev 2.287

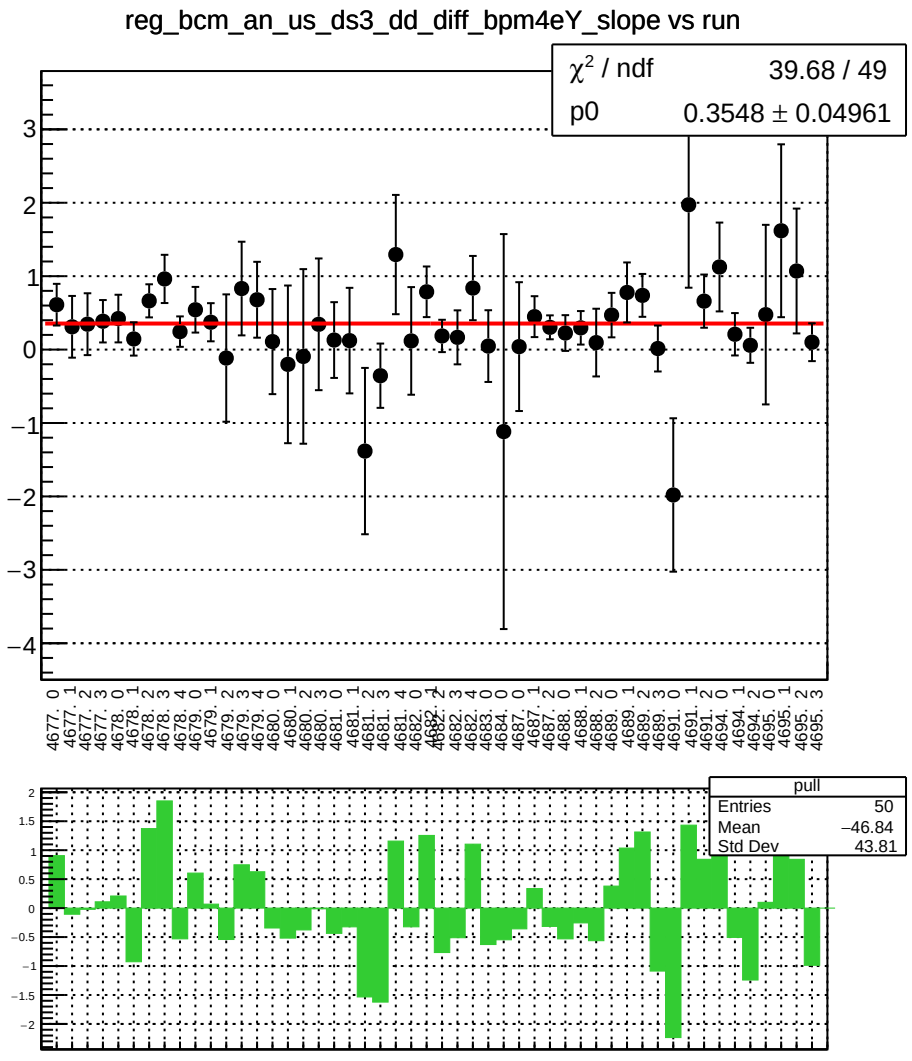

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 65.45 / 49
p0 −0.007966 ± 0.03612
pull
Entries 50
Mean 47.37
Std Dev 7.605

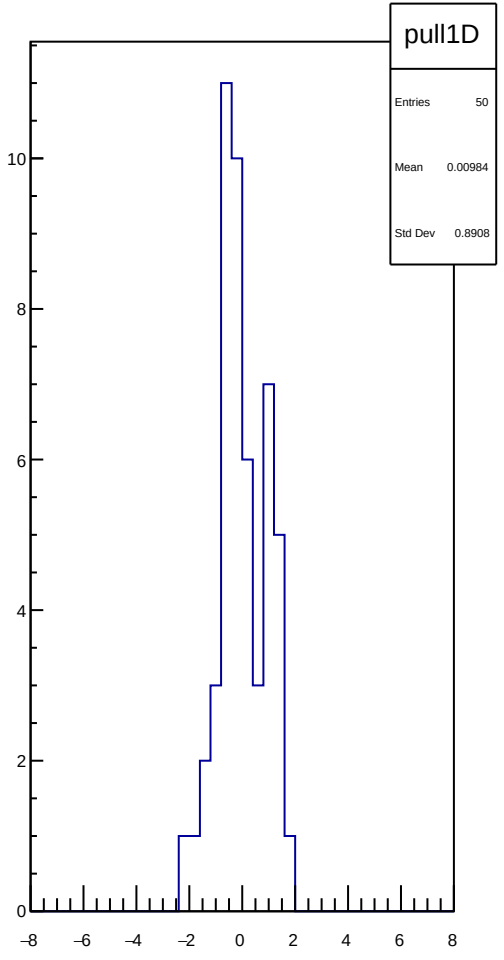

pull1D
Entries 50
Mean 0.08562
Std Dev 1.141

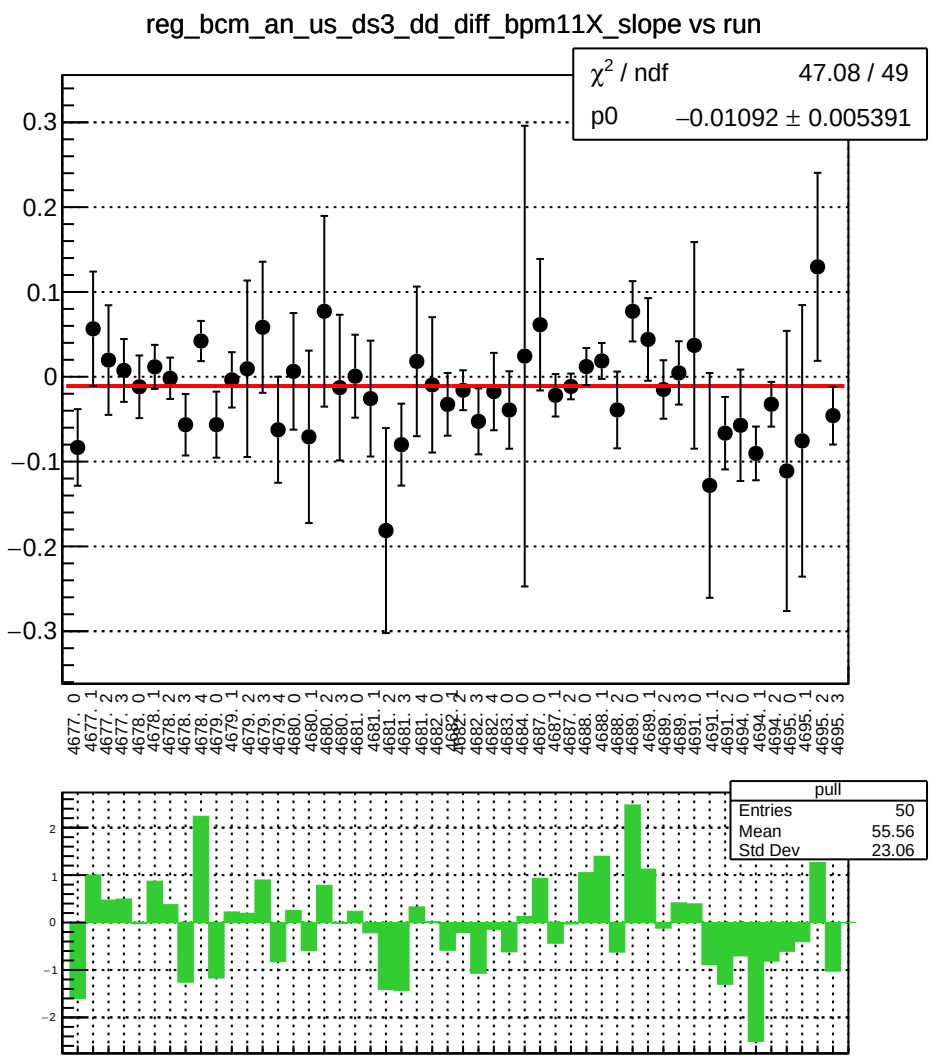

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.17 / 49
p0 −0.2419 ± 0.0375
pull
Entries 50
Mean 6.82
Std Dev 42.33
pull1D
Entries 50
Mean −0.01308
Std Dev 0.8504

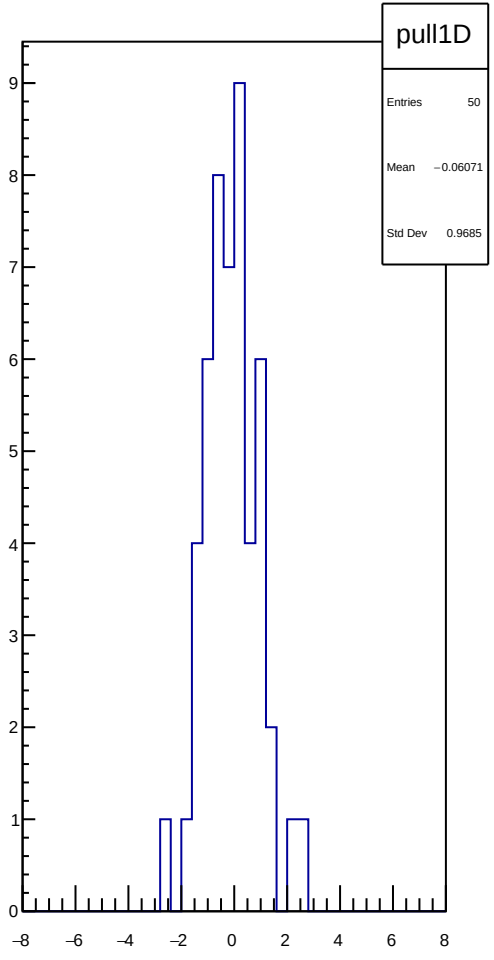

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 66.87 / 49
p0 0.001966 ± 0.008501
pull
Entries 50
Mean 30.97
Std Dev 17.2

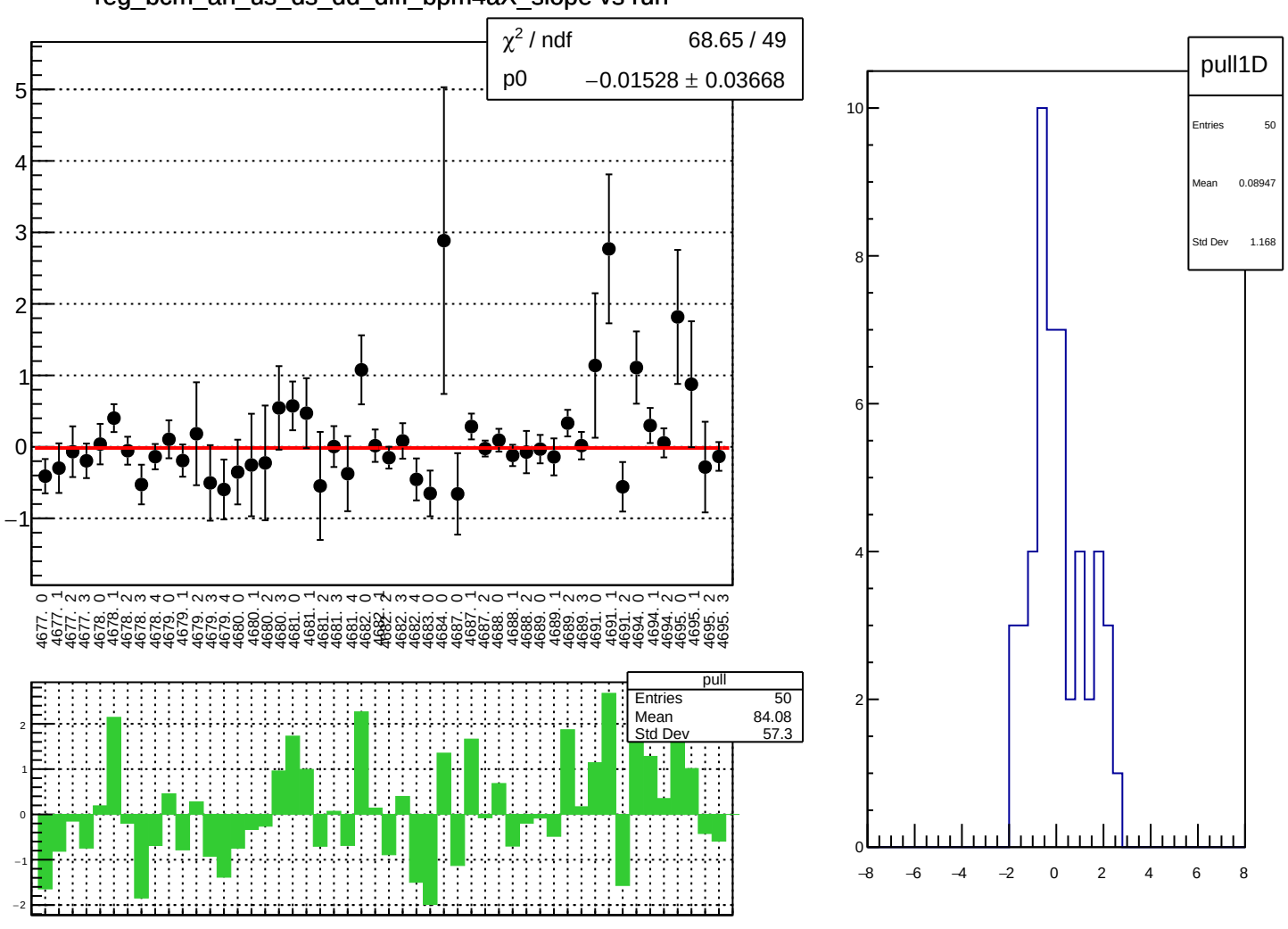

pull1D
Entries 50
Mean −0.1246
Std Dev 1.15

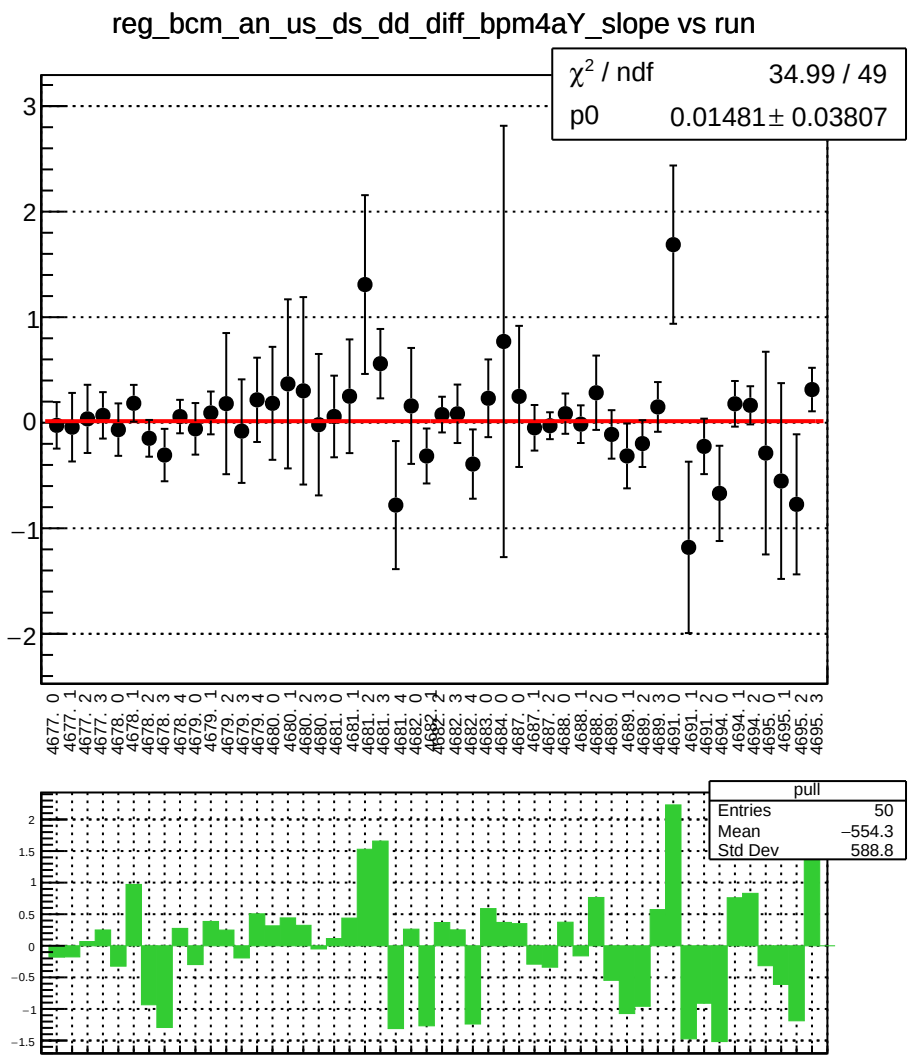

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 39.68 / 49
p0 0.3548 ± 0.04961
pull
Entries 50
Mean −46.84
Std Dev 43.81

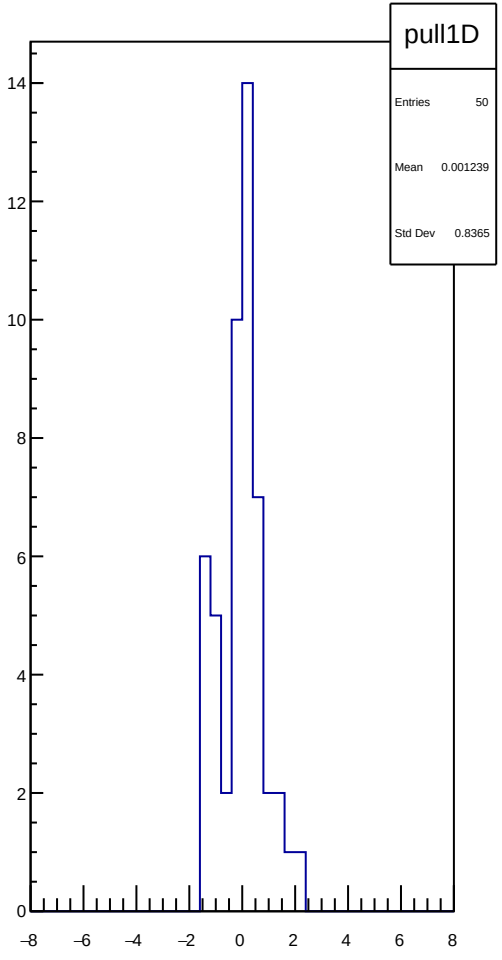

pull1D
Entries 50
Mean 0.00984
Std Dev 0.8908

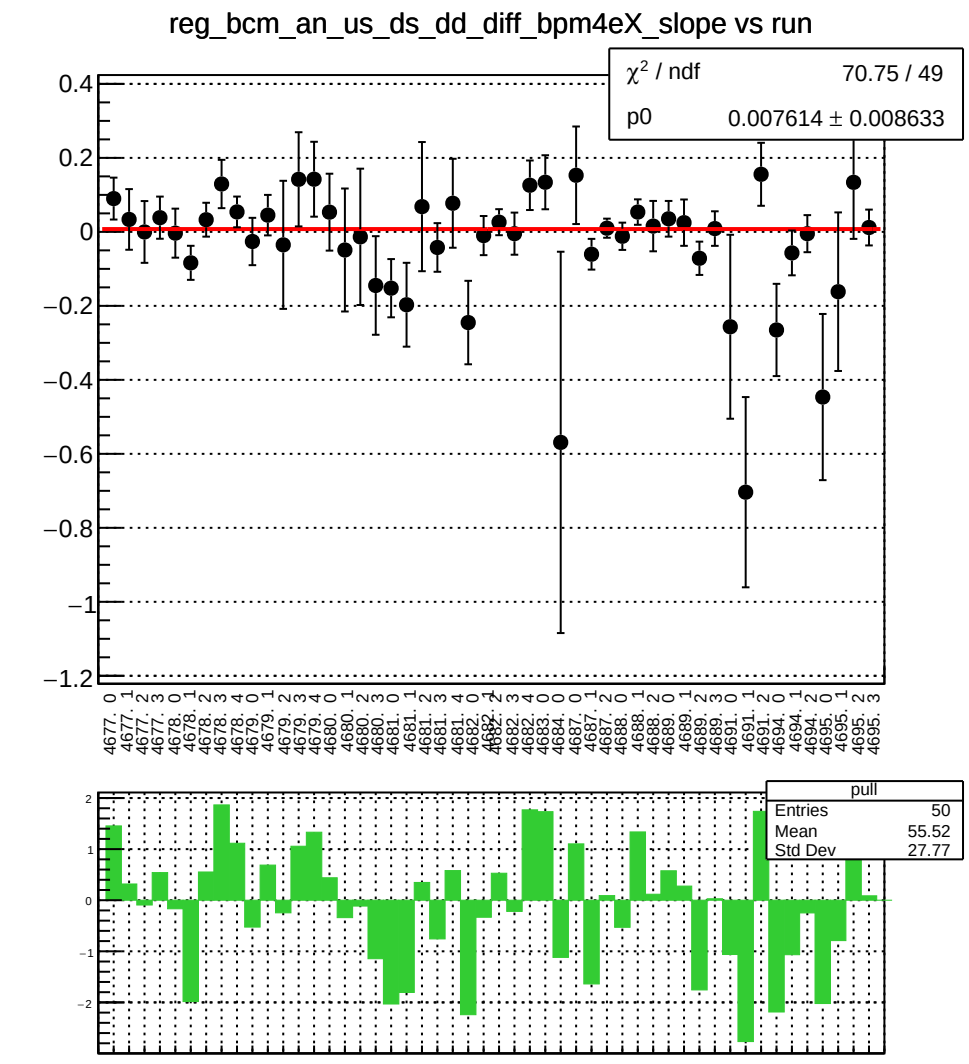

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 47.08 / 49
p0 −0.01092 ± 0.005391
pull
Entries 50
Mean 55.56
Std Dev 23.06

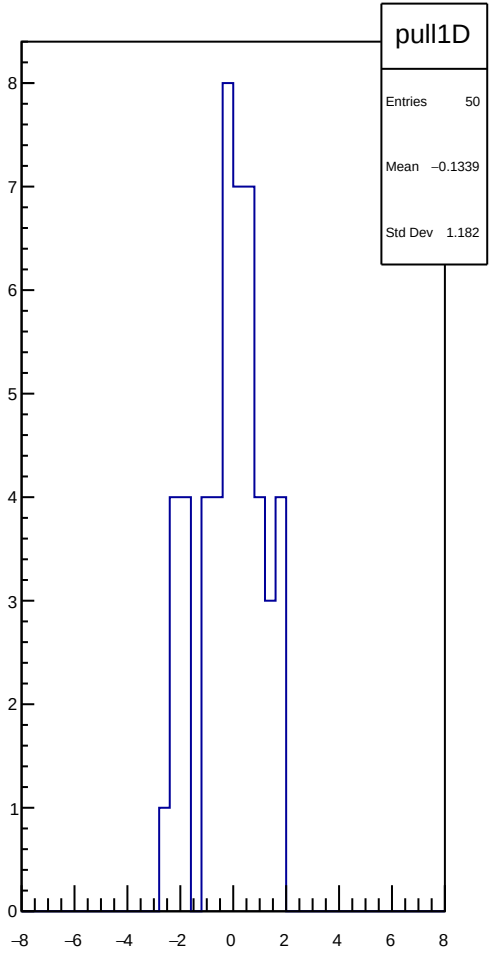

pull1D
Entries 50
Mean −0.06071
Std Dev 0.9685

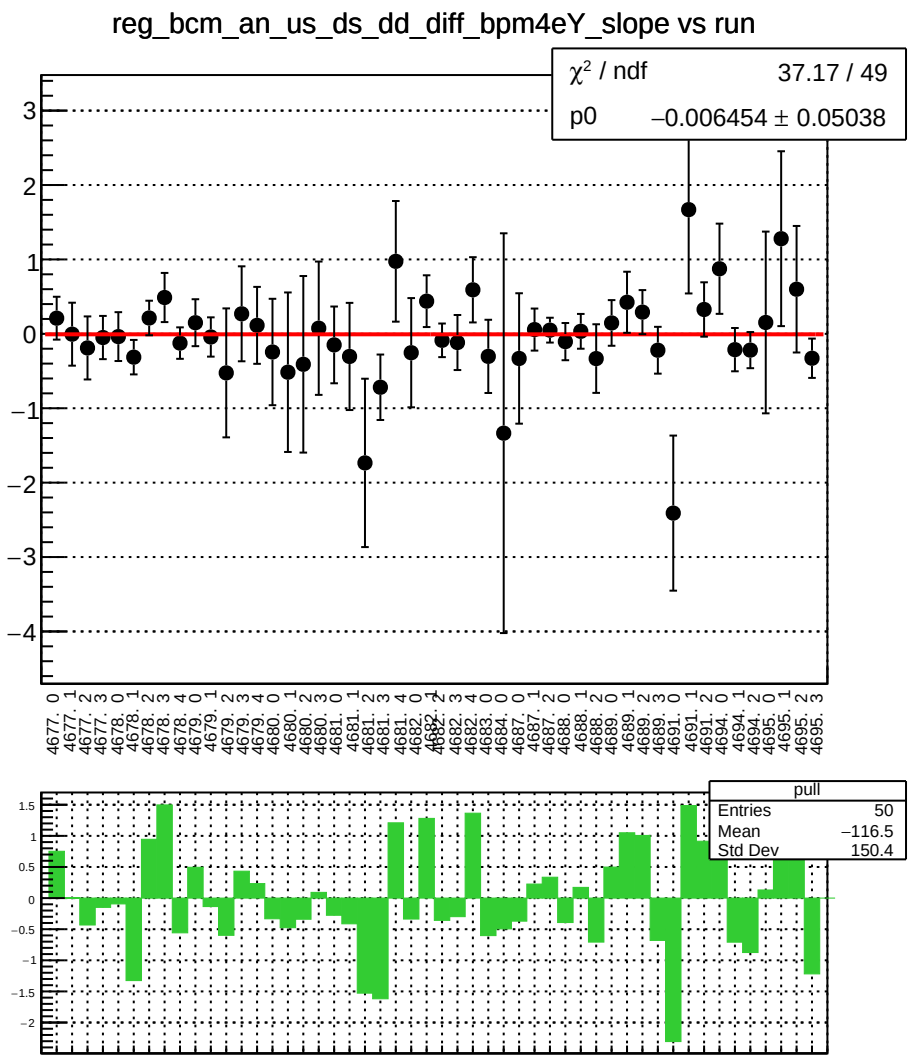

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 68.65 / 49
p0 −0.01528 ± 0.03668
pull
Entries 50
Mean 84.08
Std Dev 57.3
pull1D
Entries 50
Mean 0.08947
Std Dev 1.168

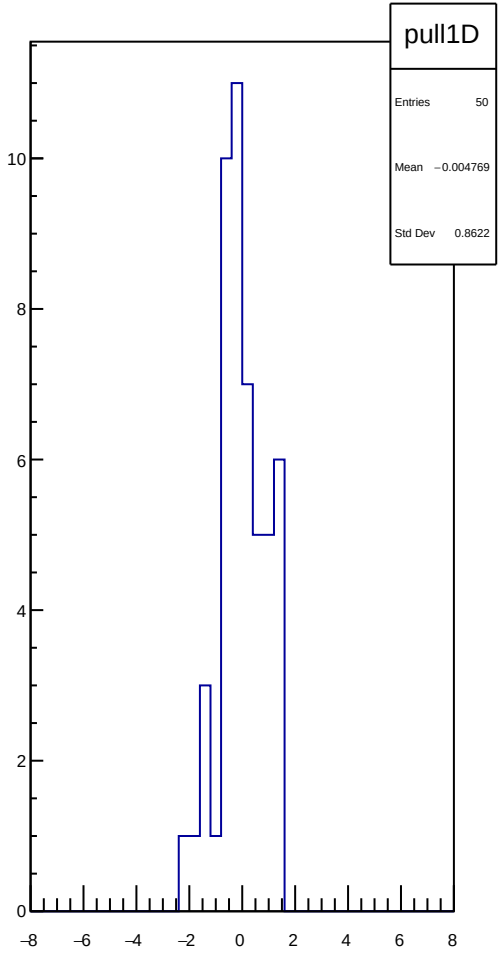

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 34.99 / 49
p0 0.01481 ± 0.03807
pull
Entries 50
Mean −554.3
Std Dev 588.8

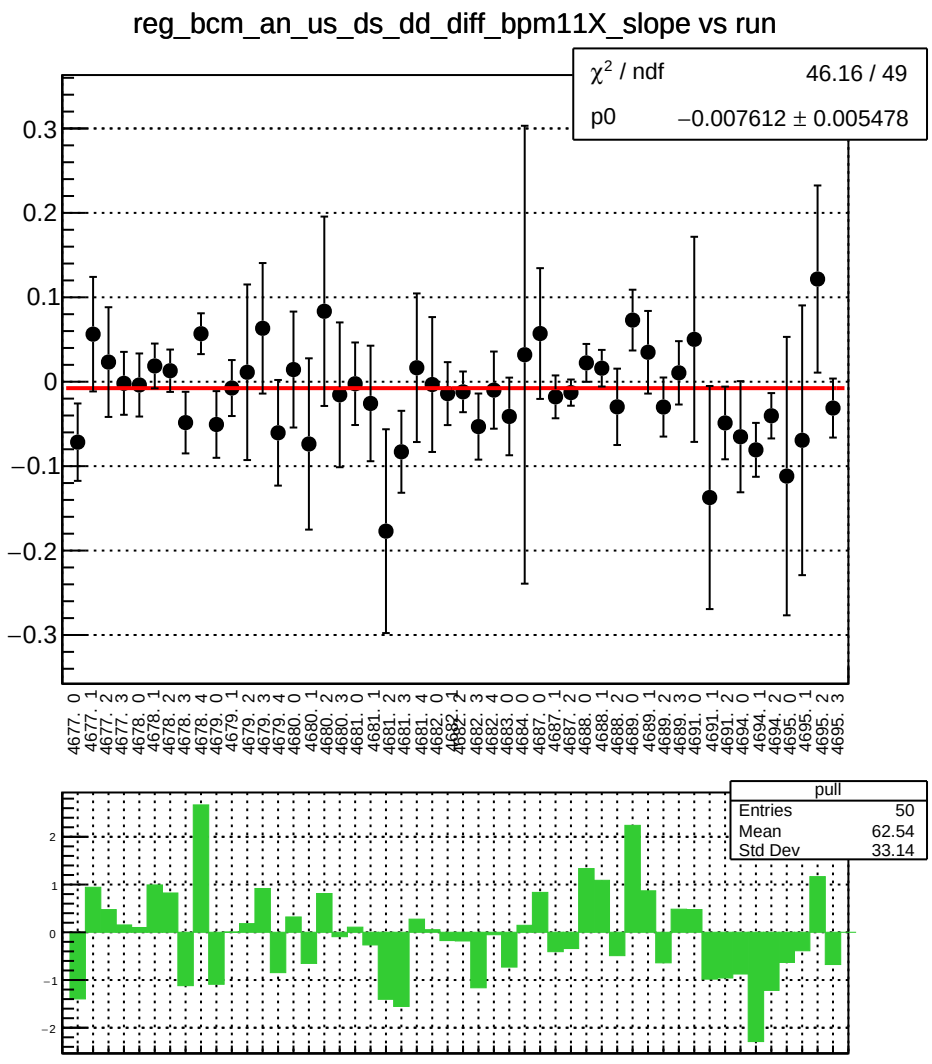

pull1D
Entries 50
Mean 0.001239
Std Dev 0.8365

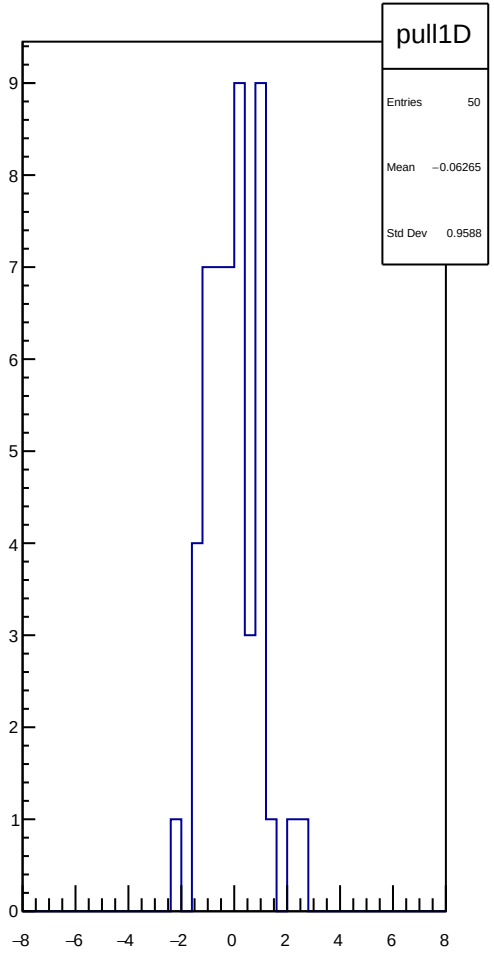

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 70.75 / 49
p0 0.007614 ± 0.008633
pull
Entries 50
Mean 55.52
Std Dev 27.77

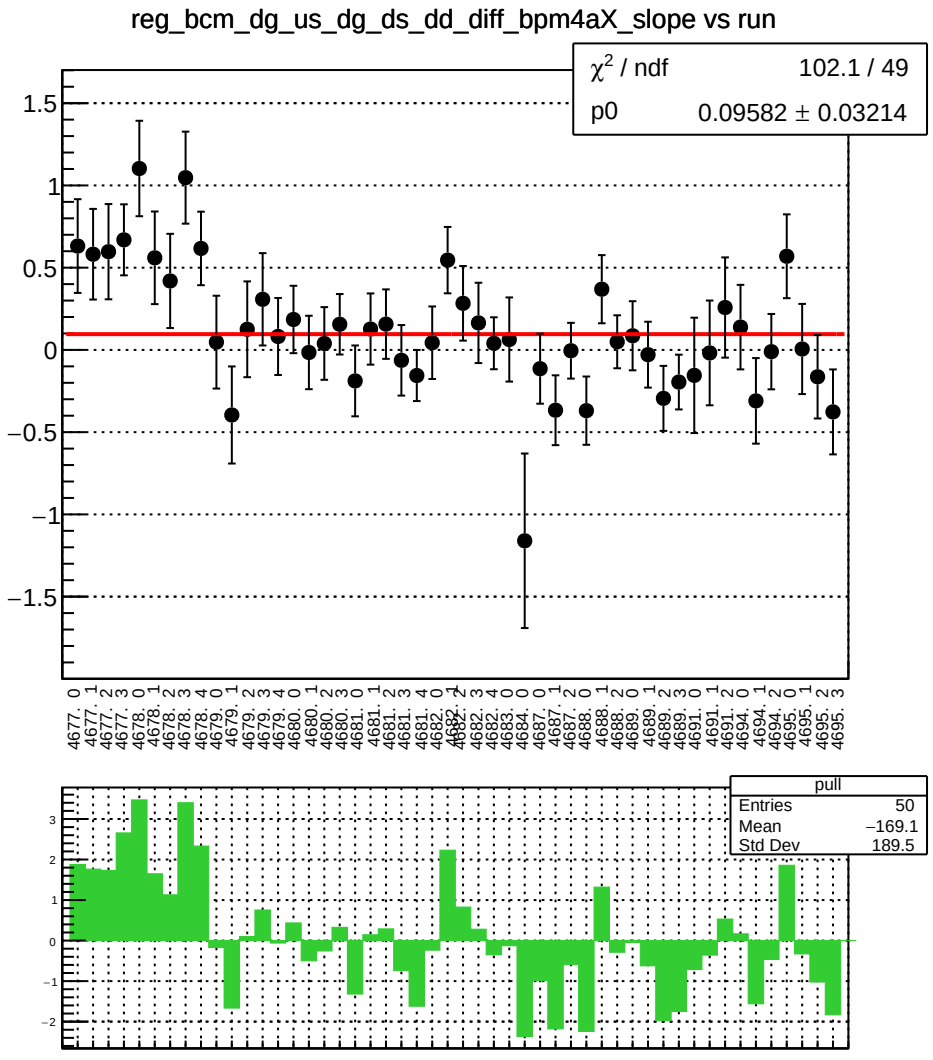

pull1D
Entries 50
Mean −0.1339
Std Dev 1.182

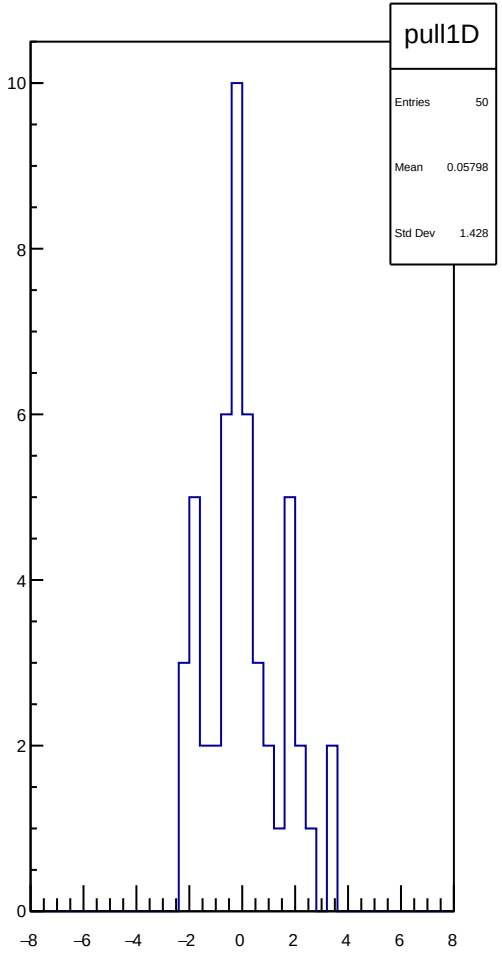

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.17 / 49
p0 −0.006454 ± 0.05038
pull
Entries 50
Mean −116.5
Std Dev 150.4

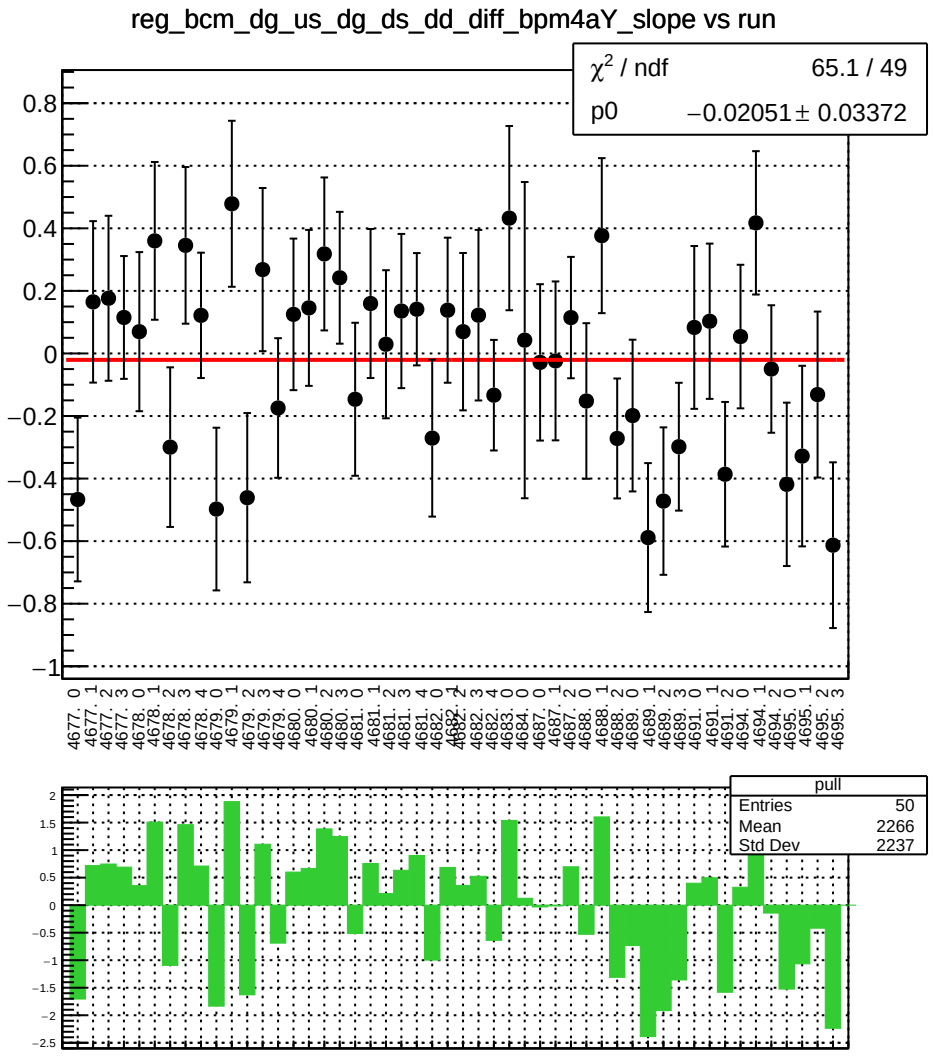

pull1D
Entries 50
Mean −0.004769
Std Dev 0.8622

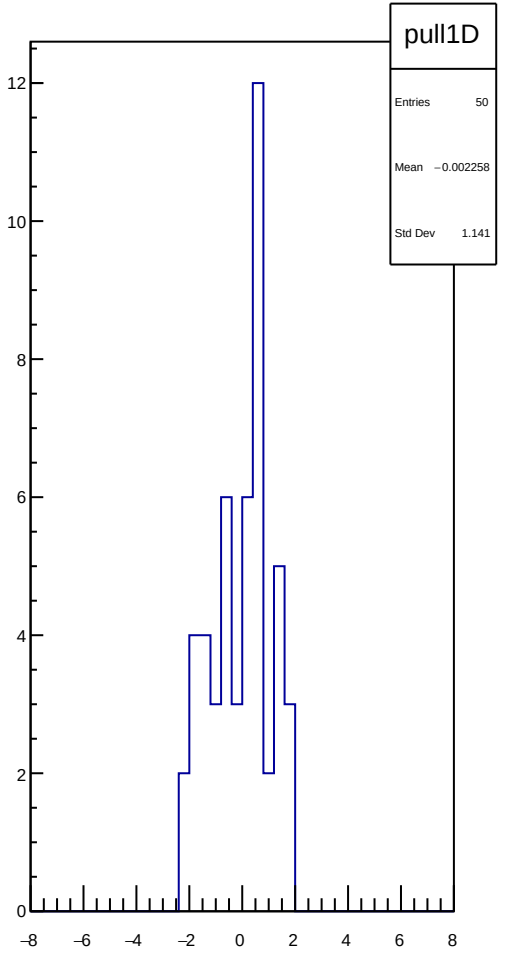

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 46.16 / 49
p0 −0.007612 ± 0.005478
pull
Entries 50
Mean 62.54
Std Dev 33.14

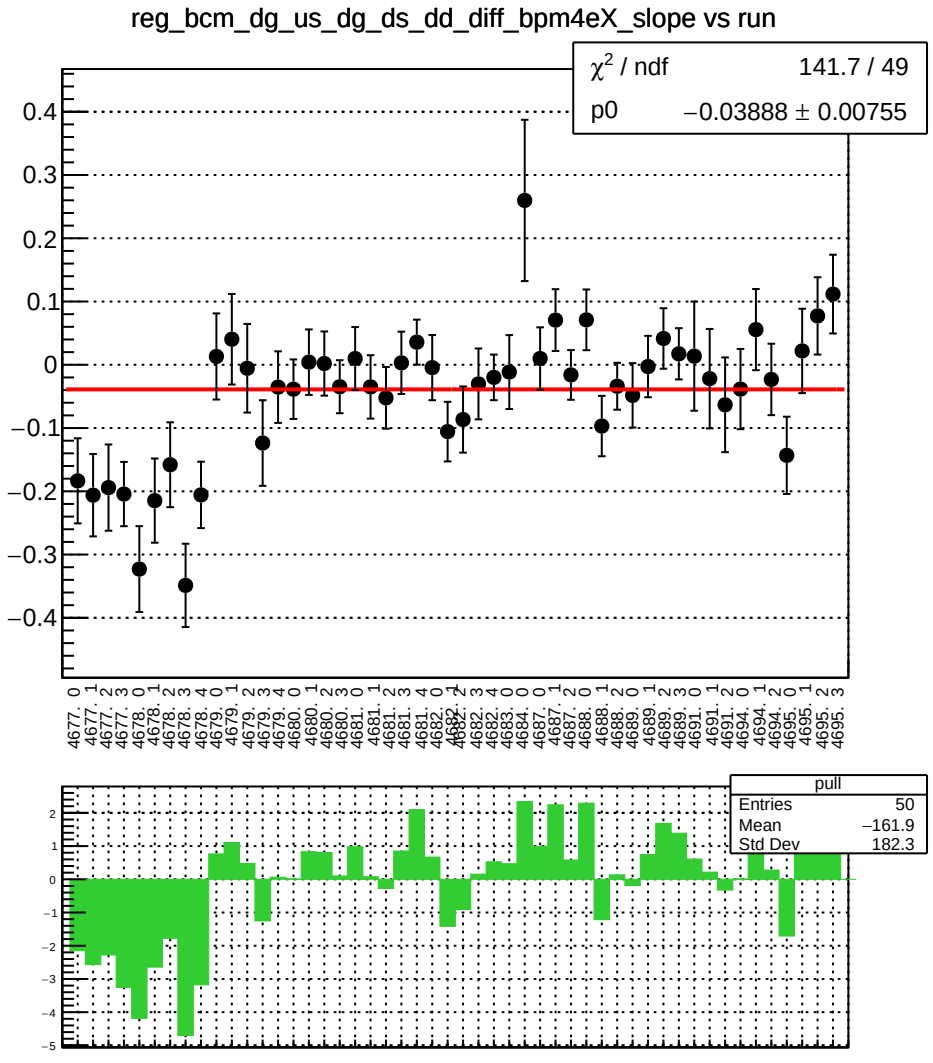

pull1D
Entries 50
Mean −0.06265
Std Dev 0.9588

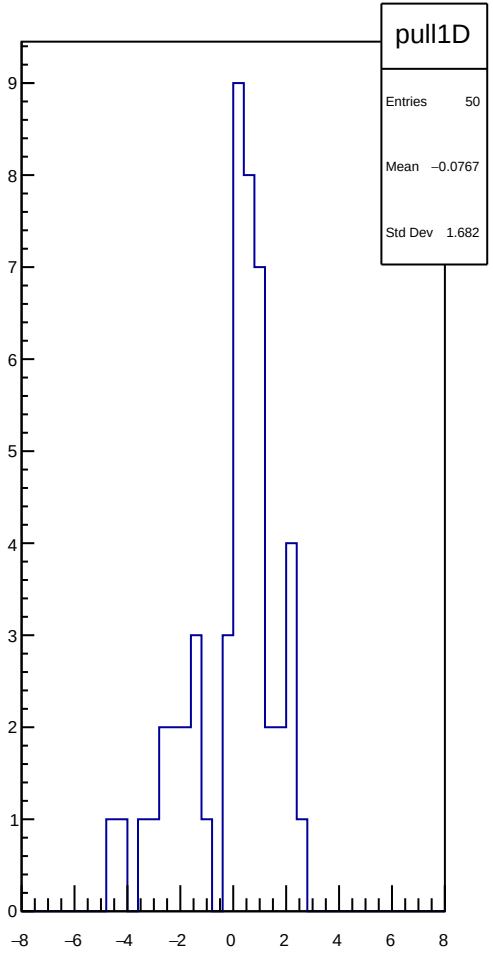

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 102.1 / 49
p0 0.09582 ± 0.03214
pull
Entries 50
Mean −169.1
Std Dev 189.5

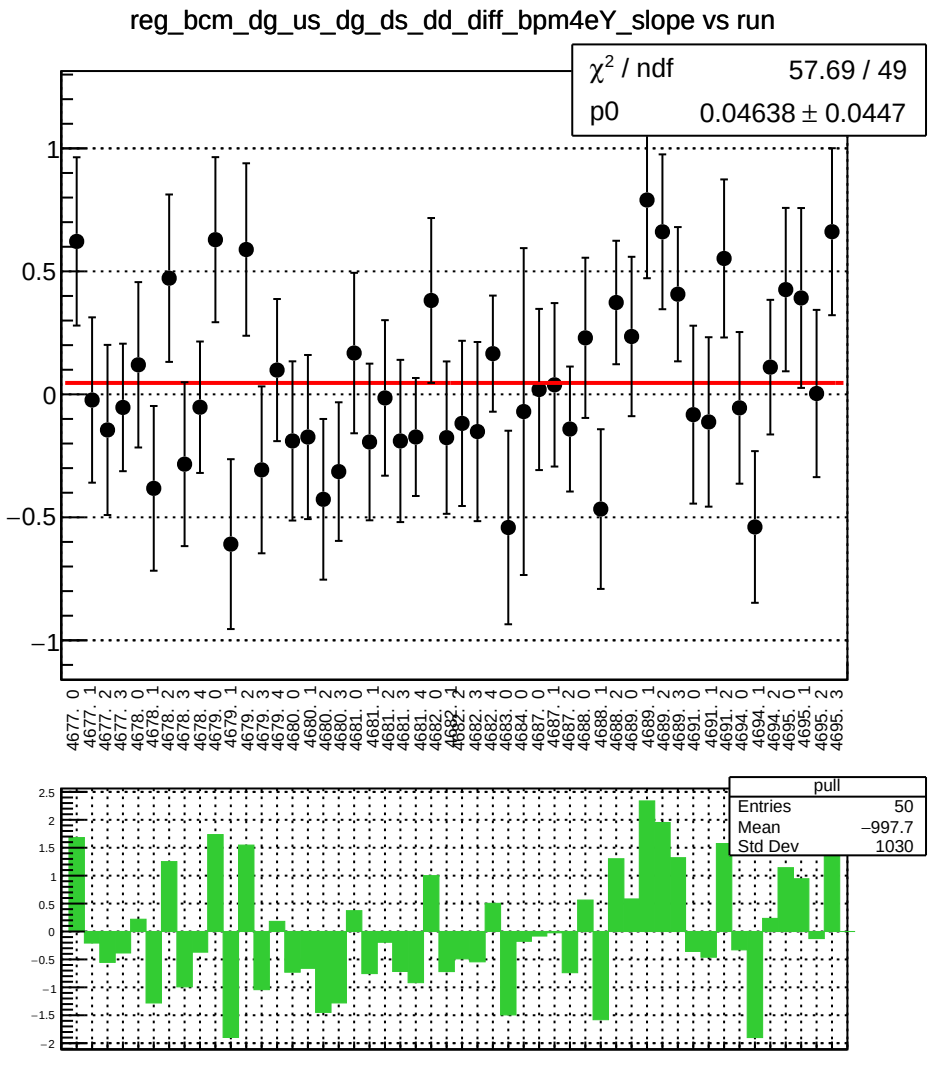

pull1D
Entries 50
Mean 0.05798
Std Dev 1.428

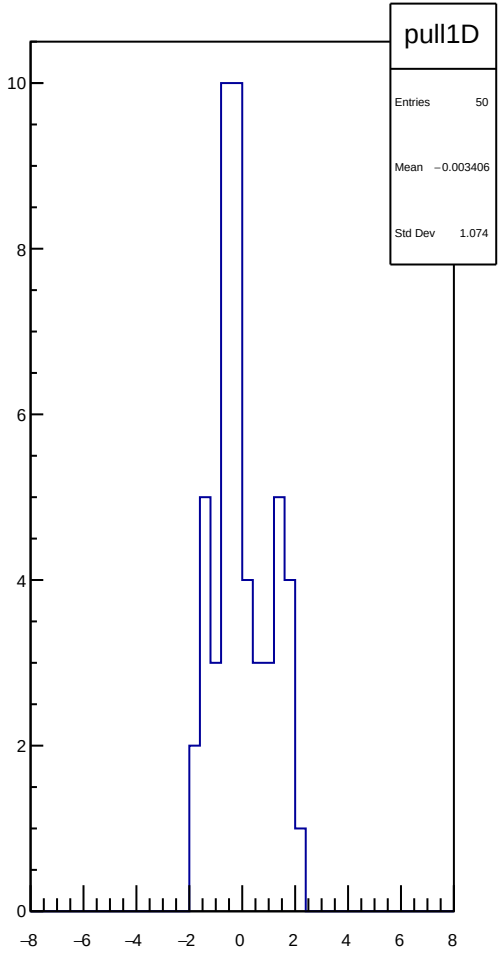

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 65.1 / 49
p0 −0.02051 ± 0.03372
pull
Entries 50
Mean 2266
Std Dev 2237

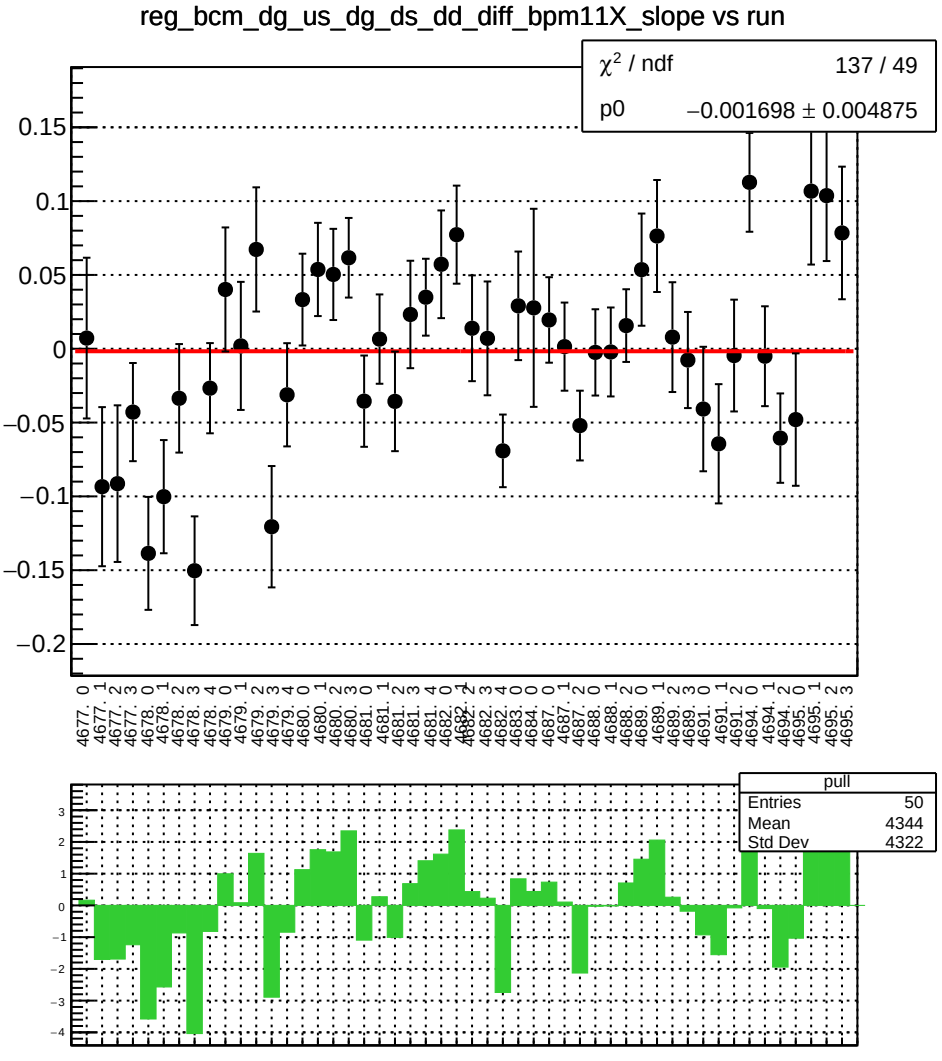

pull1D
Entries 50
Mean −0.002258
Std Dev 1.141

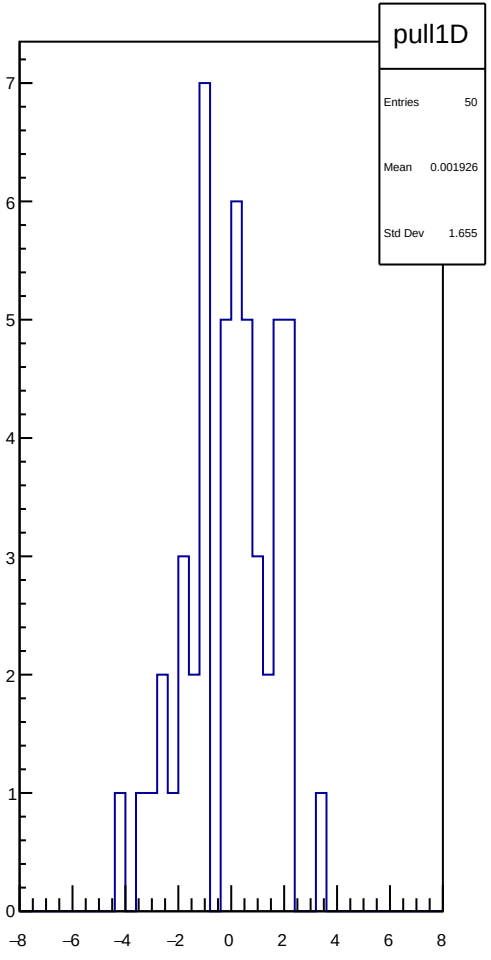

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 141.7 / 49
p0 −0.03888 ± 0.00755
pull
Entries 50
Mean −161.9
Std Dev 182.3

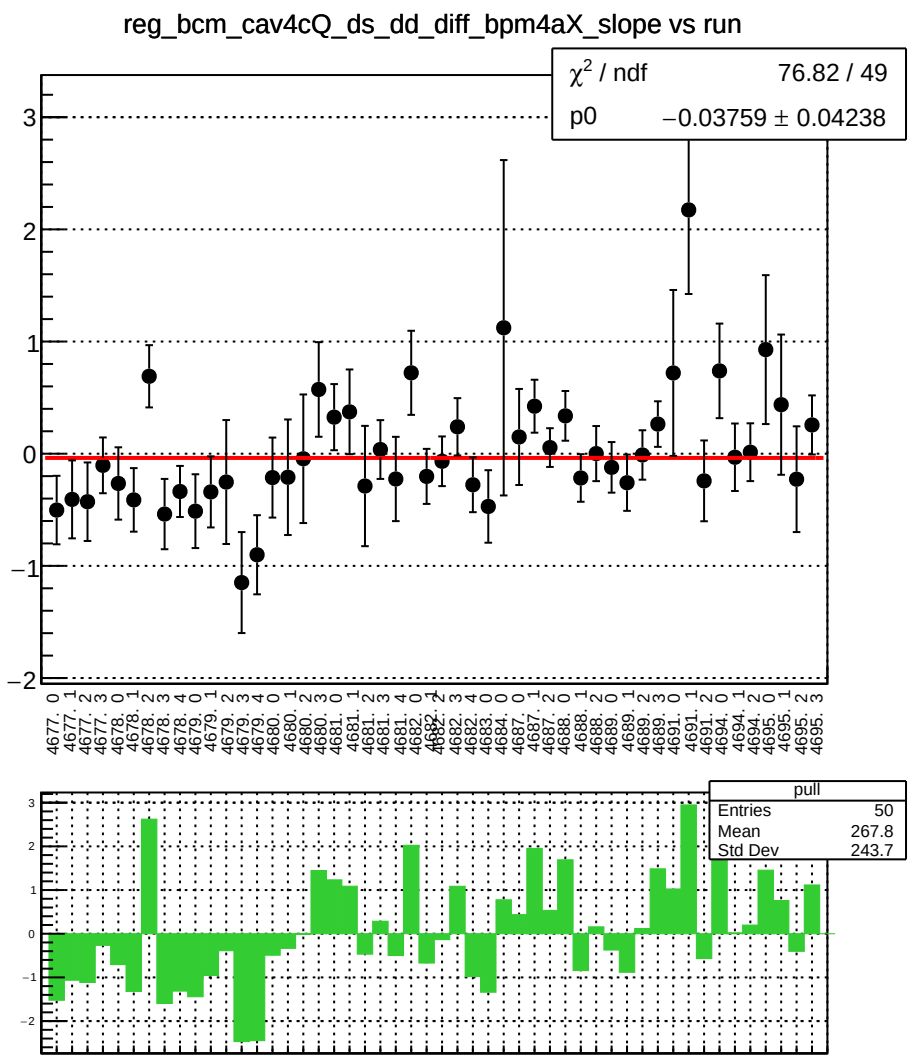

pull1D
Entries 50
Mean −0.0767
Std Dev 1.682

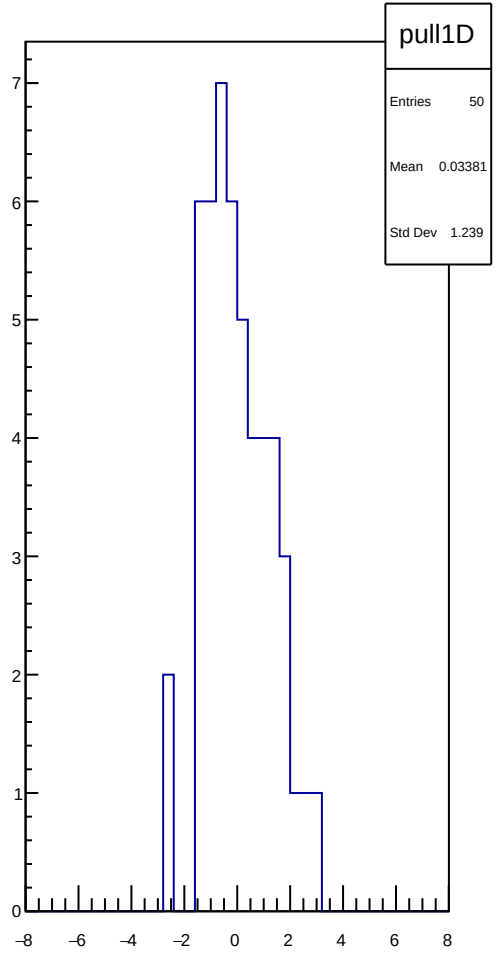

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 57.69 / 49
p0 0.04638 ± 0.0447
pull
Entries 50
Mean −997.7
Std Dev 1030

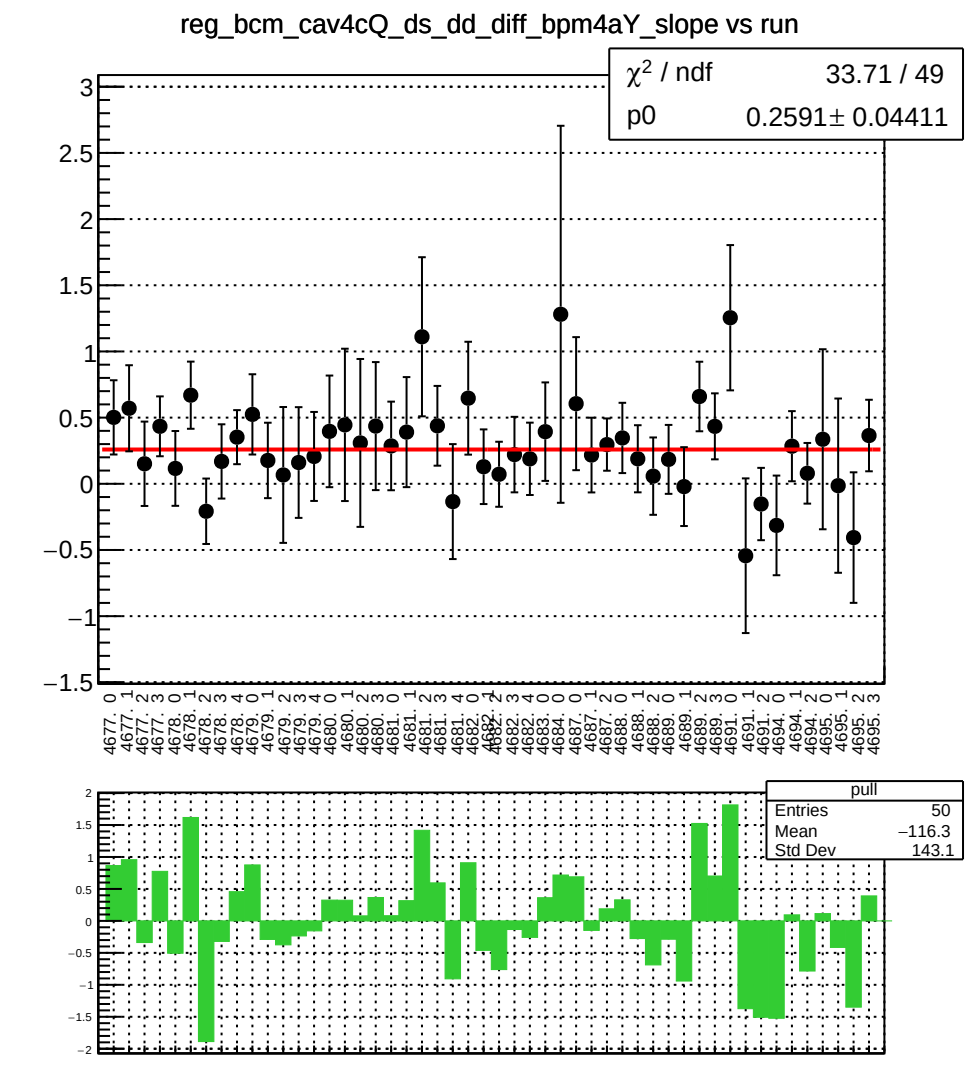

pull1D
Entries 50
Mean −0.003406
Std Dev 1.074

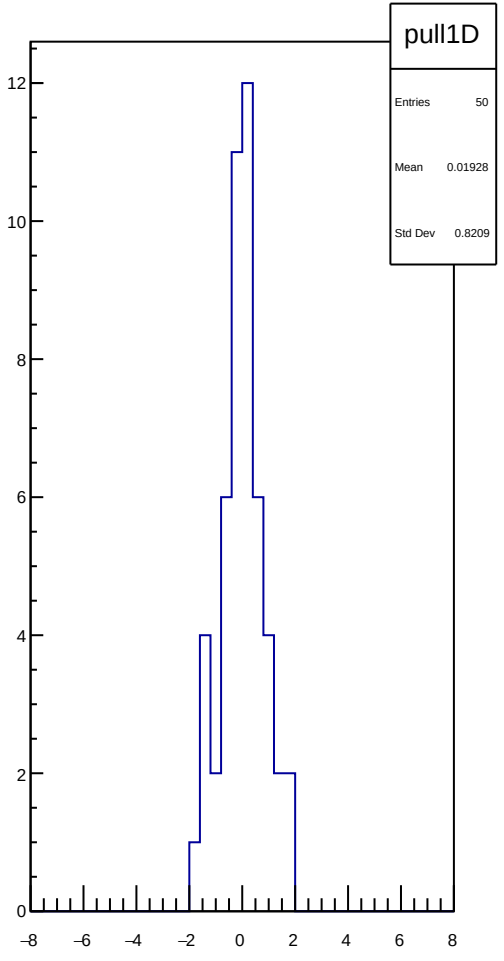

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 137 / 49
p0 −0.001698 ± 0.004875
pull
Entries 50
Mean 4344
Std Dev 4322

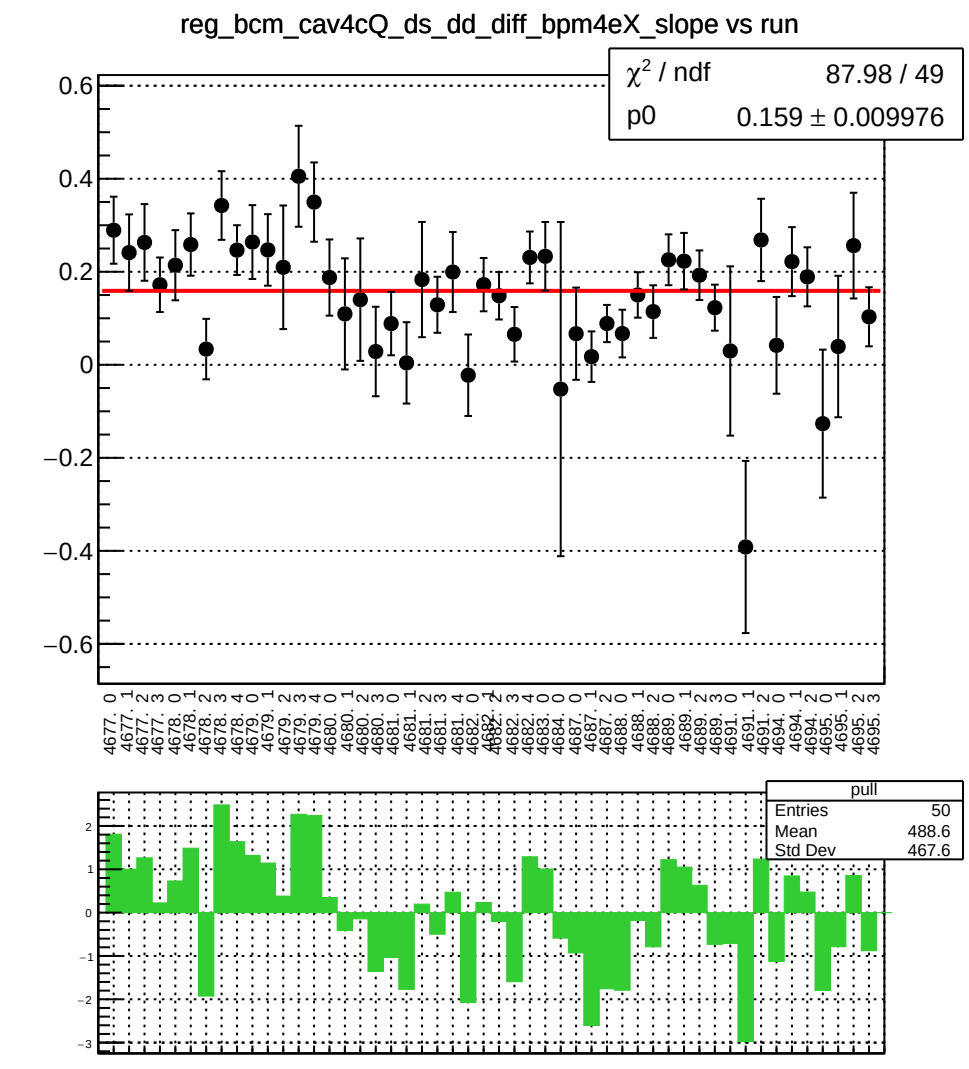

pull1D
Entries 50
Mean 0.001926
Std Dev 1.655

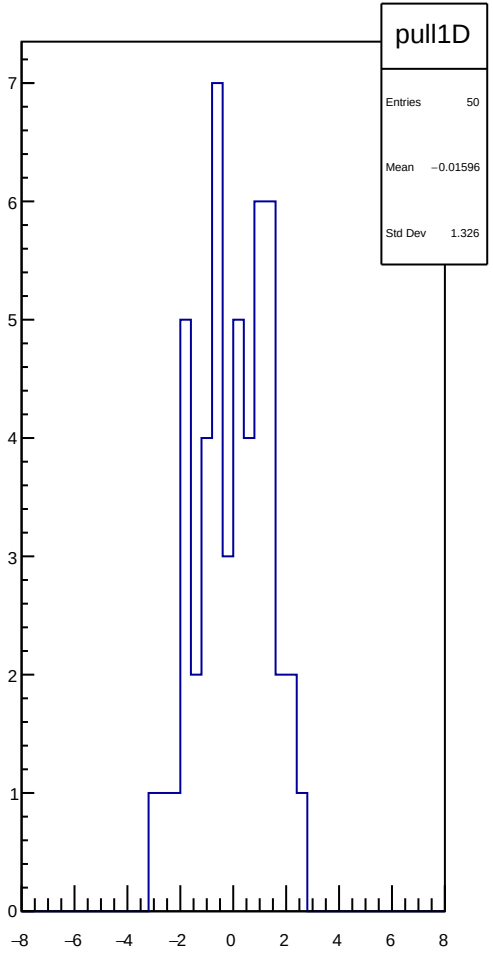

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 76.82 / 49
p0 −0.03759 ± 0.04238
pull
Entries 50
Mean 267.8
Std Dev 243.7

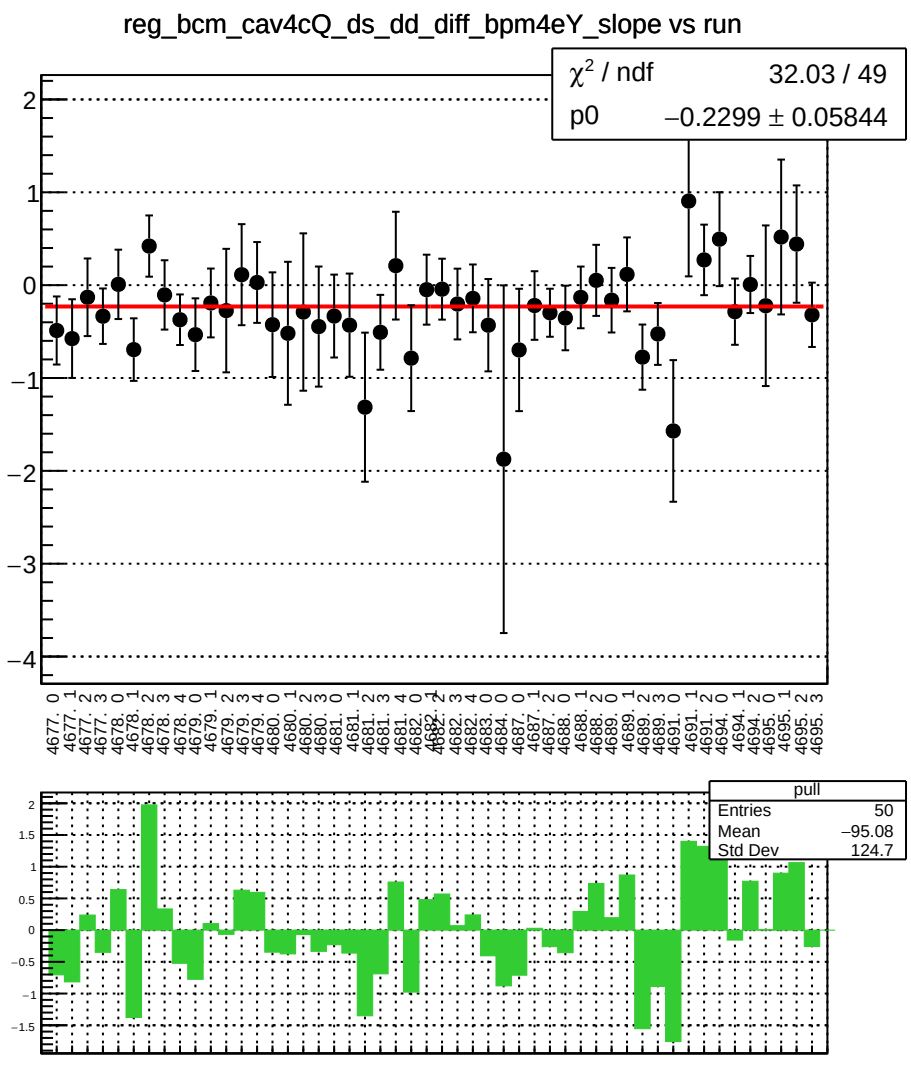

pull1D
Entries 50
Mean 0.03381
Std Dev 1.239

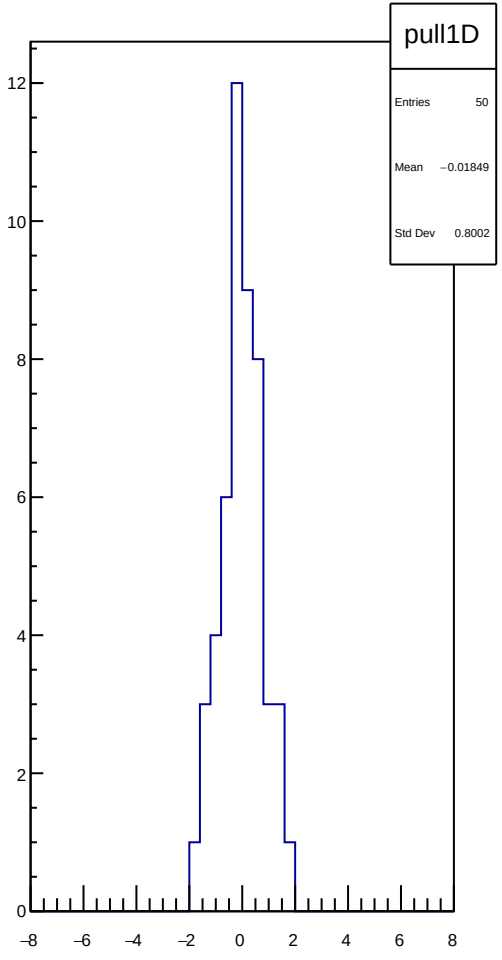

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.71 / 49
p0 0.2591± 0.04411
pull
Entries 50
Mean −116.3
Std Dev 143.1

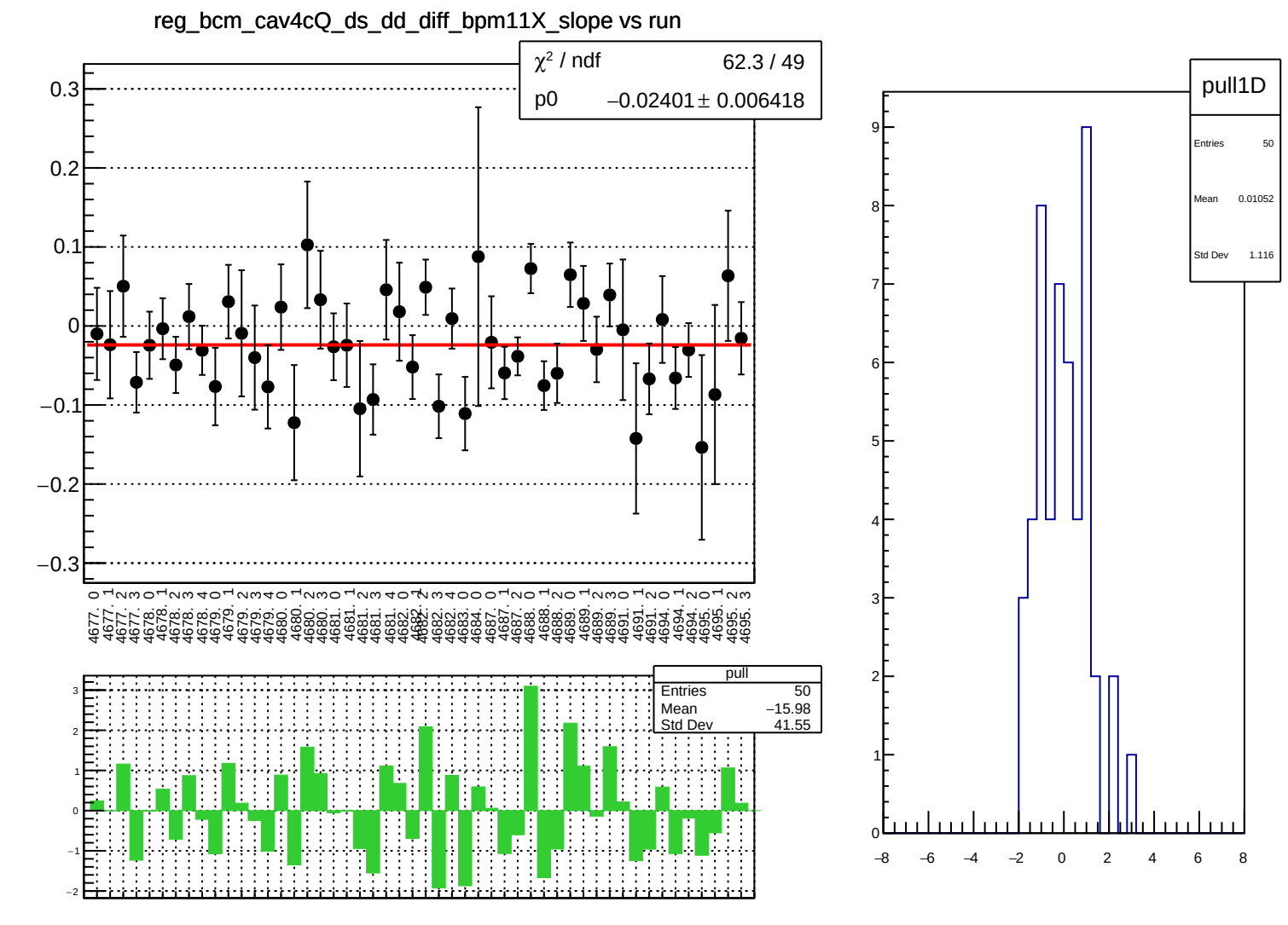

pull1D
Entries 50
Mean 0.01928
Std Dev 0.8209

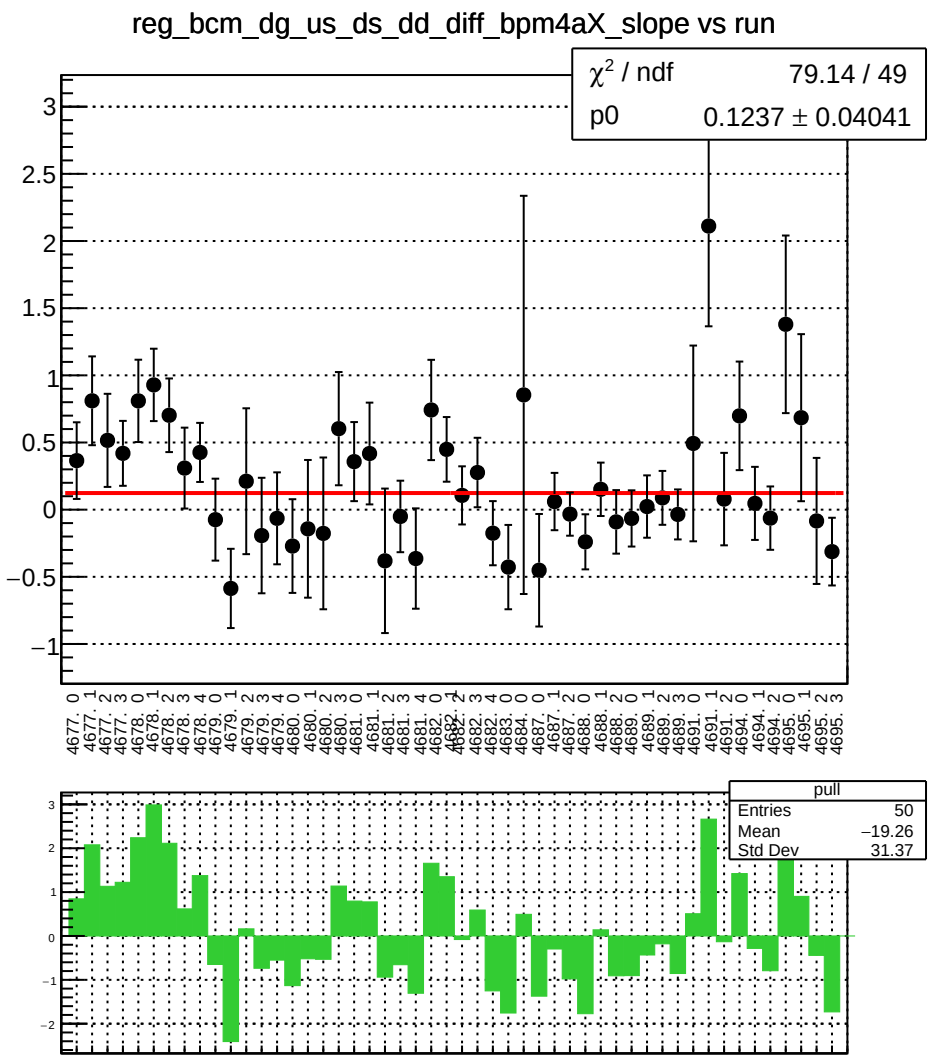

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 87.98 / 49
p0 0.159 ± 0.009976
pull
Entries 50
Mean 488.6
Std Dev 467.6

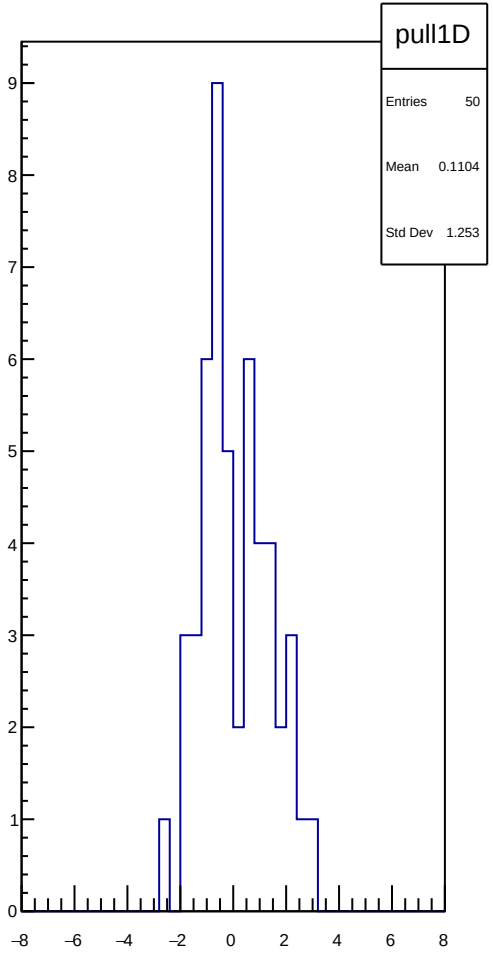

pull1D
Entries 50
Mean −0.01596
Std Dev 1.326

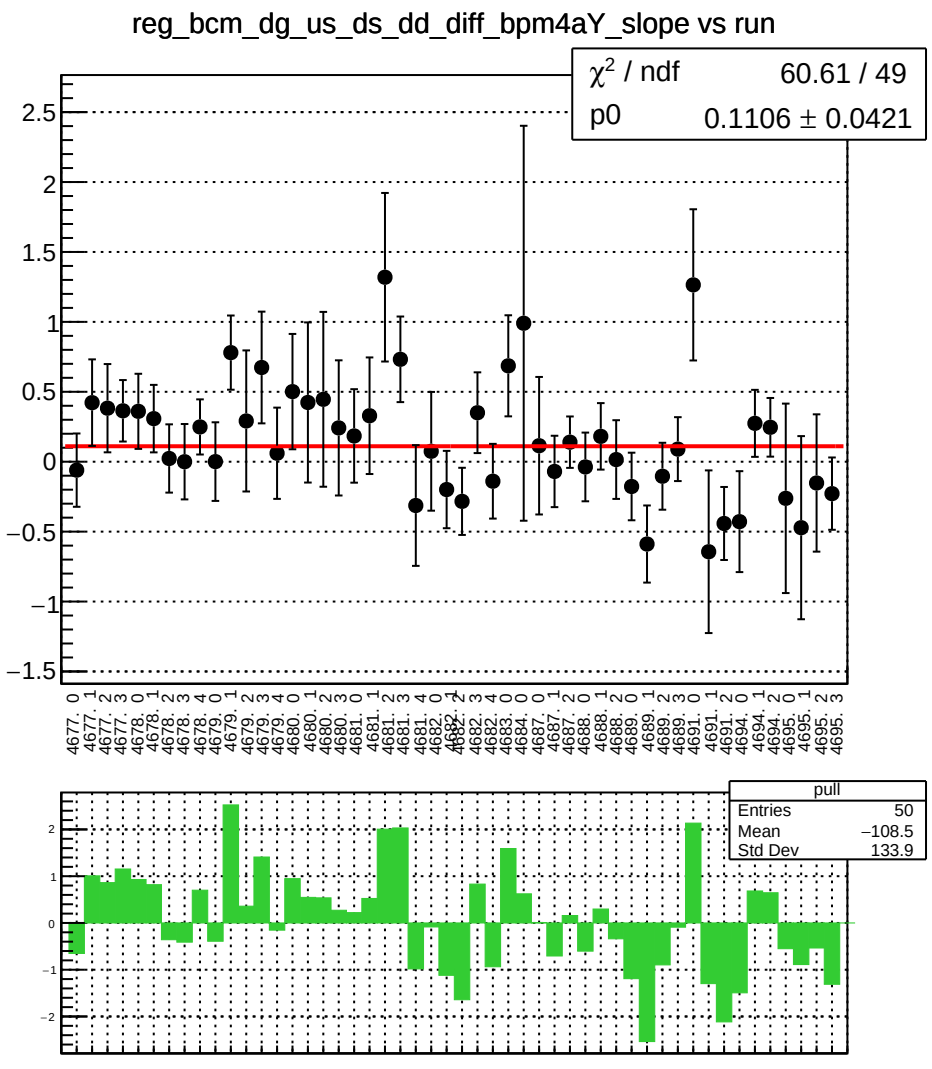

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.03 / 49
p0 −0.2299 ± 0.05844
pull
Entries 50
Mean −95.08
Std Dev 124.7

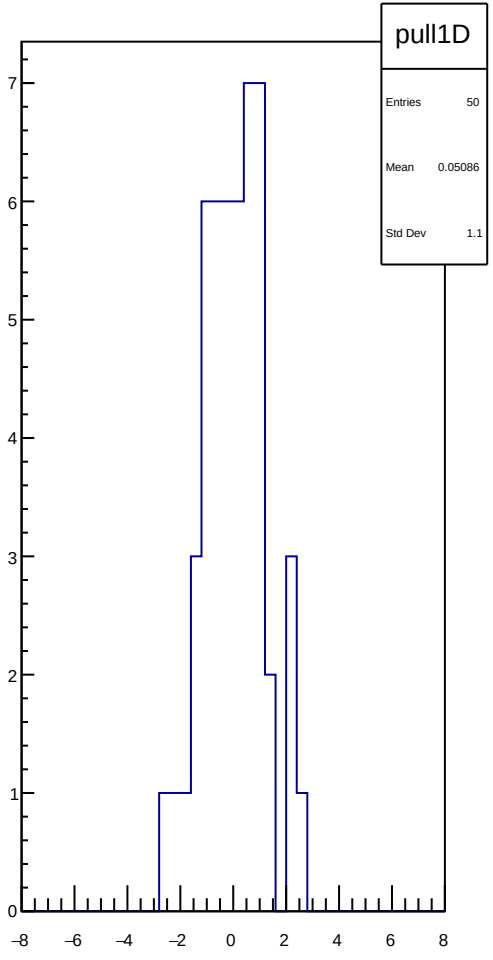

pull1D
Entries 50
Mean −0.01849
Std Dev 0.8002

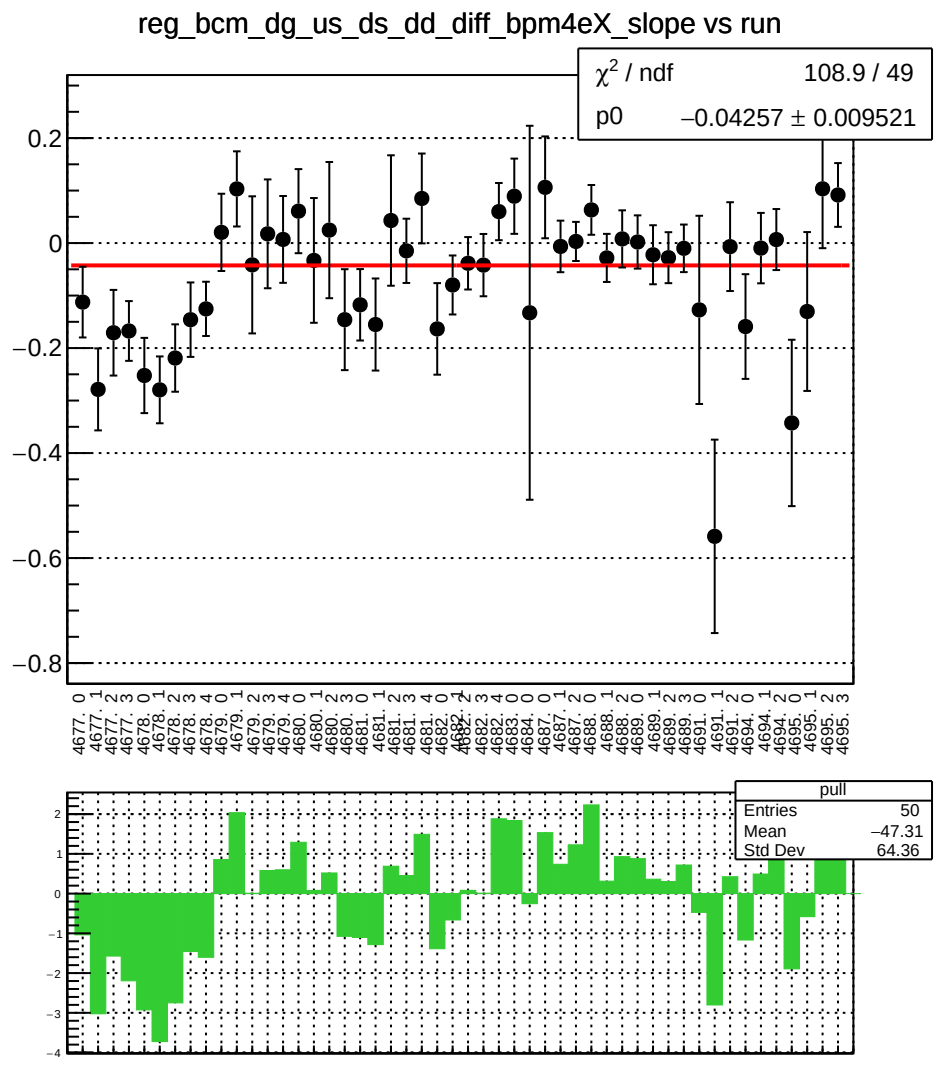

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 62.3 / 49
p0 −0.02401 ± 0.006418
pull
Entries 50
Mean −15.98
Std Dev 41.55
pull1D
Entries 50
Mean 0.01052
Std Dev 1.116

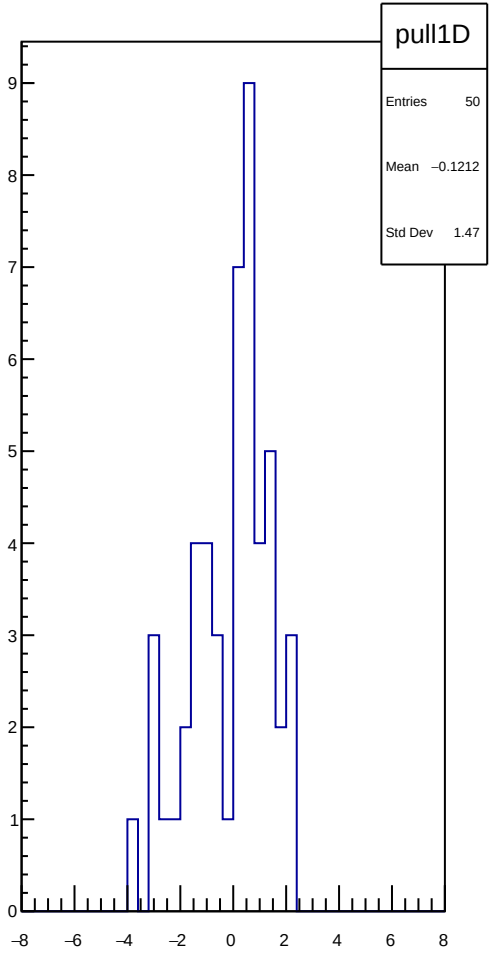

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 79.14 / 49
p0 0.1237 ± 0.04041
pull
Entries 50
Mean −19.26
Std Dev 31.37

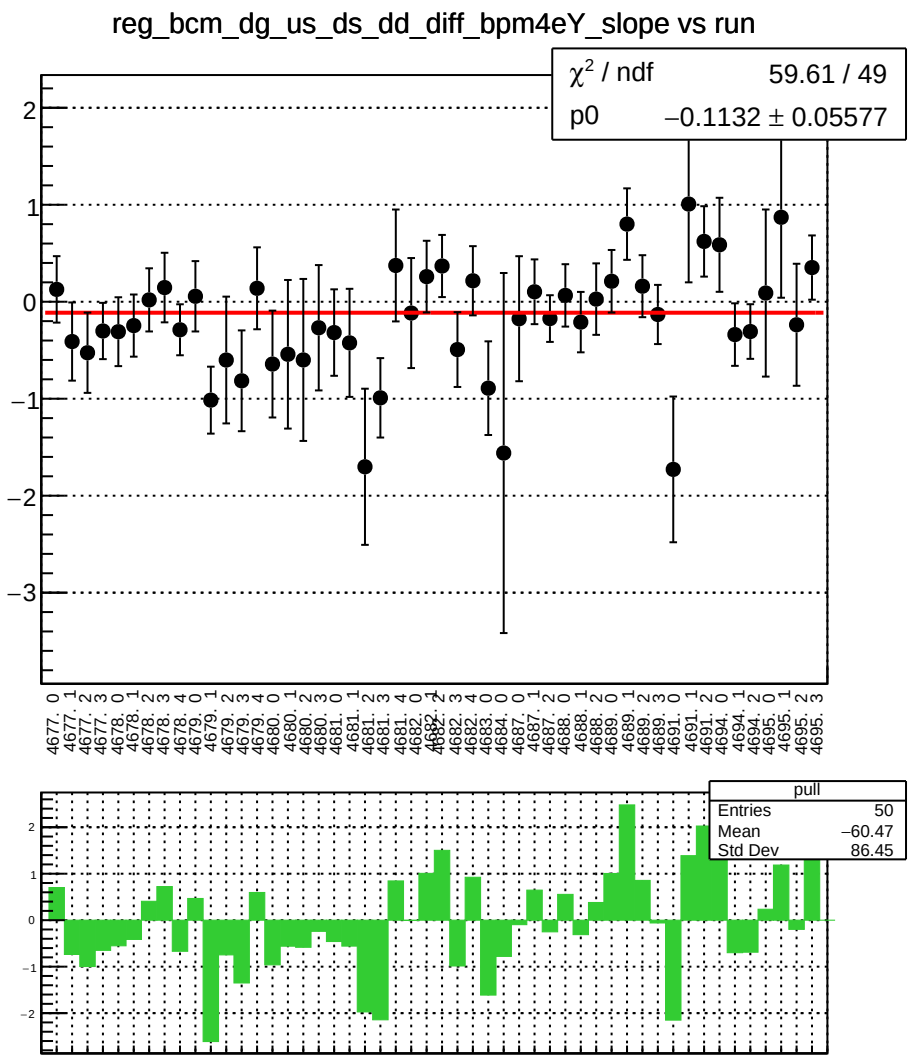

pull1D
Entries 50
Mean 0.1104
Std Dev 1.253

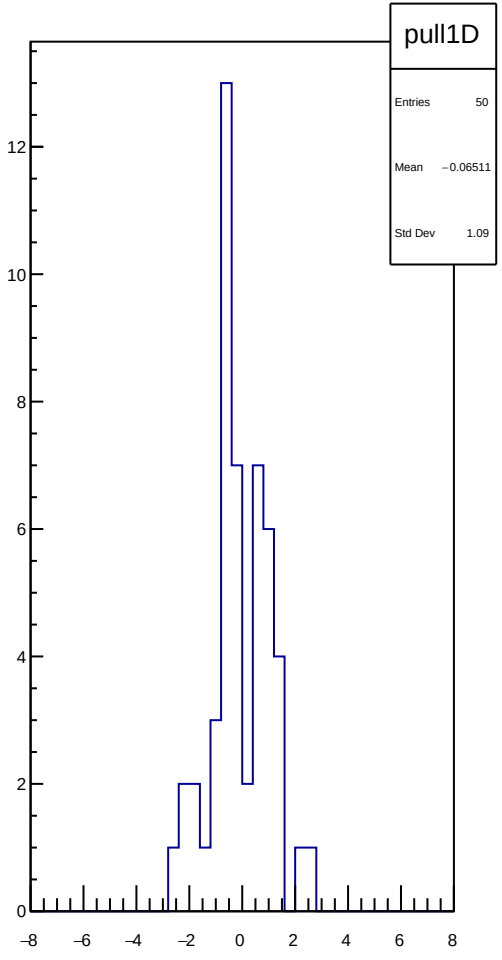

reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 60.61 / 49
p0 0.1106 ± 0.0421
pull
Entries 50
Mean −108.5
Std Dev 133.9

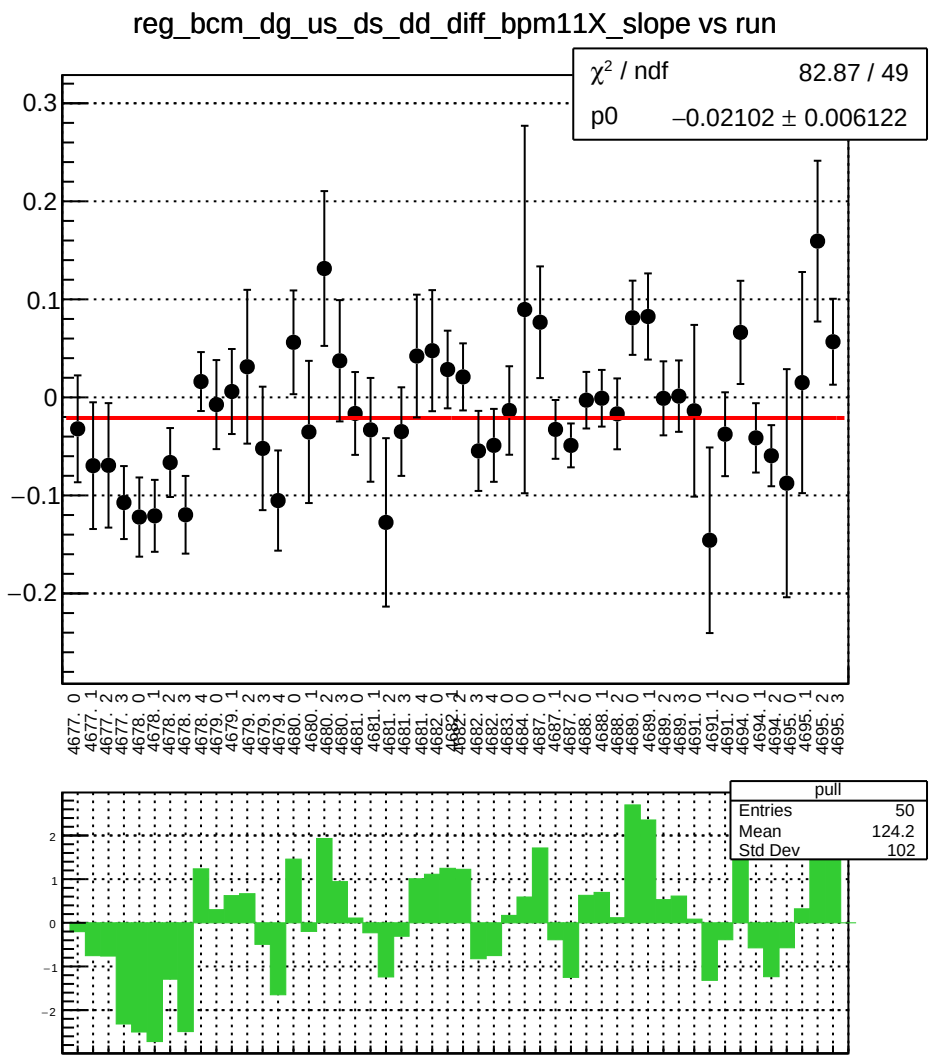

pull1D
Entries 50
Mean 0.05086
Std Dev 1.1

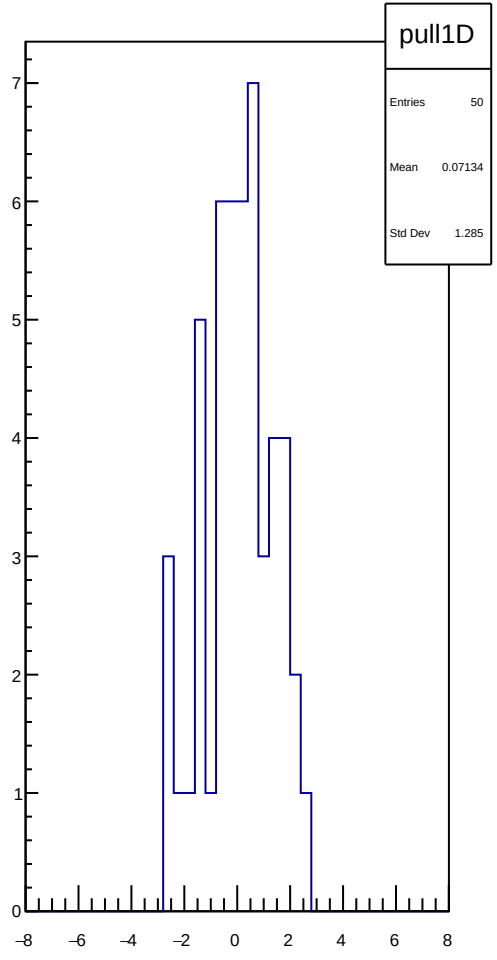

reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 108.9 / 49
p0 −0.04257 ± 0.009521
pull
Entries 50
Mean −47.31
Std Dev 64.36

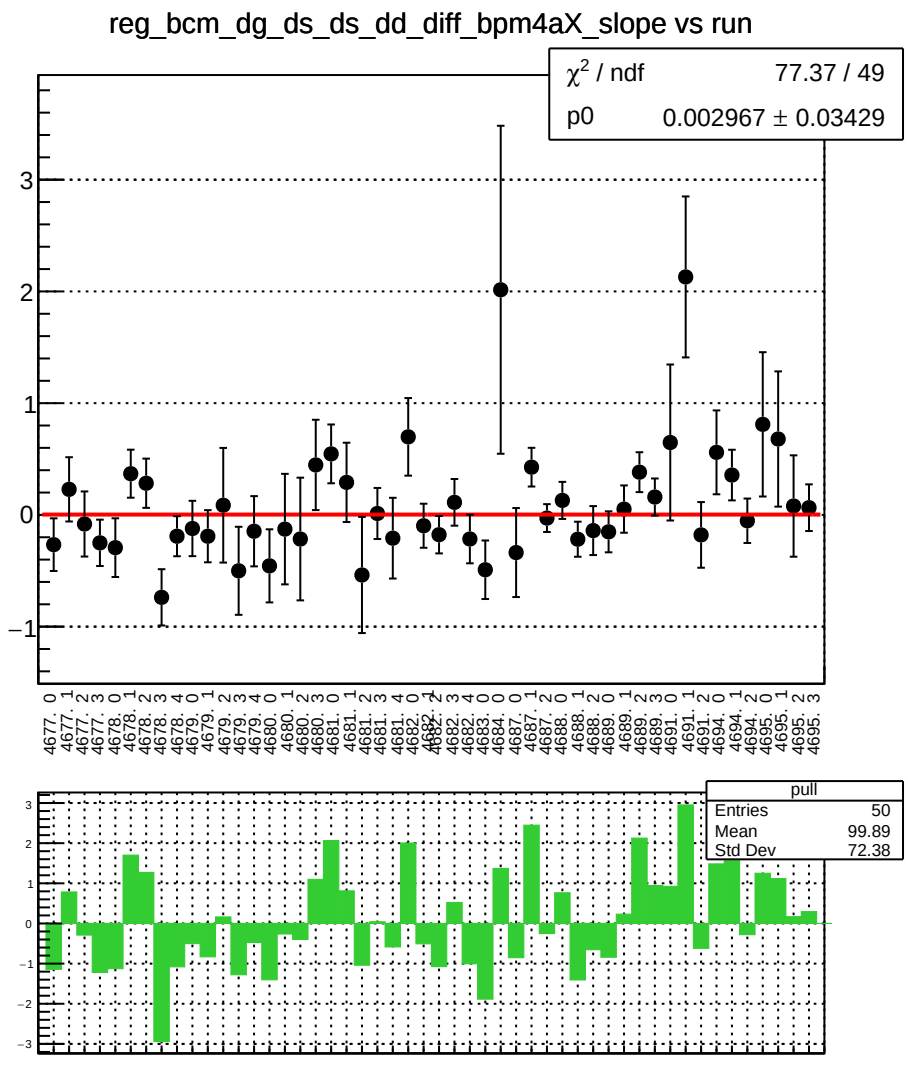

pull1D
Entries 50
Mean −0.1212
Std Dev 1.47

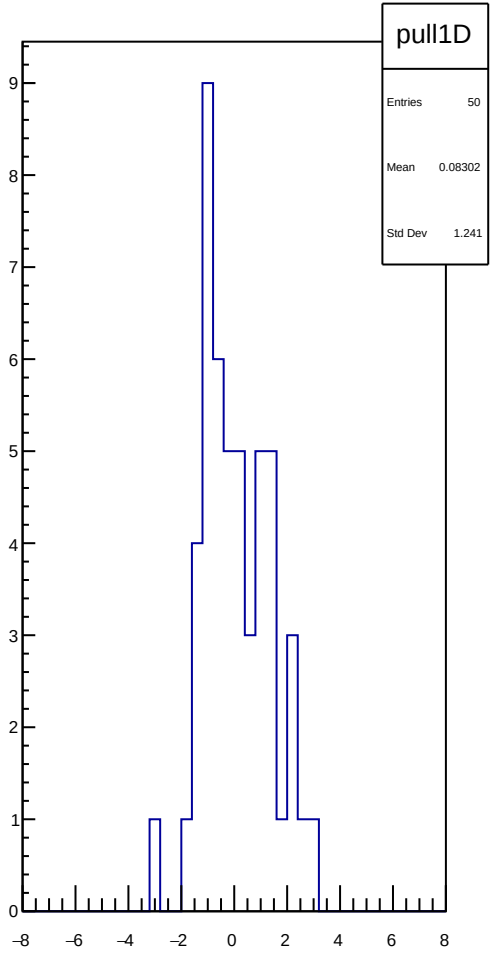

reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.61 / 49
p0 −0.1132 ± 0.05577
pull
Entries 50
Mean −60.47
Std Dev 86.45

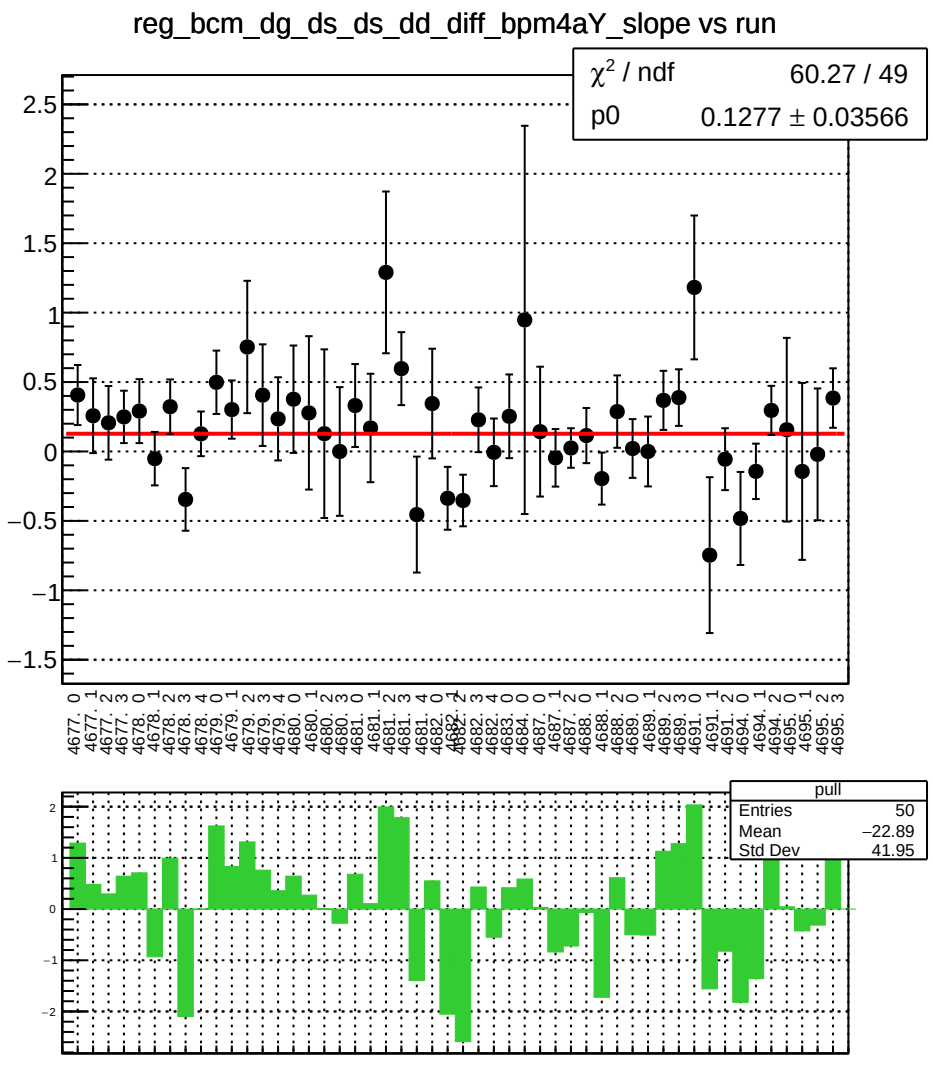

pull1D
Entries 50
Mean −0.06511
Std Dev 1.09

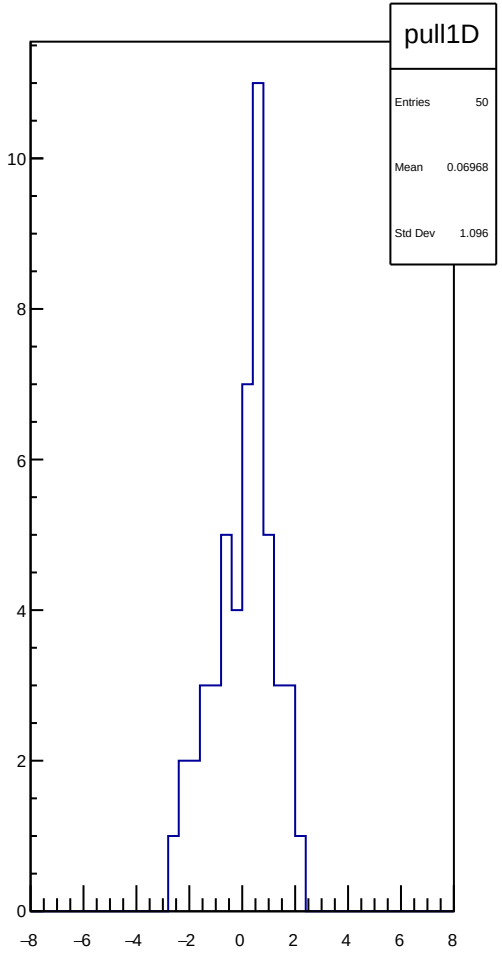

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 82.87 / 49
p0 −0.02102 ± 0.006122
pull
Entries 50
Mean 124.2
Std Dev 102

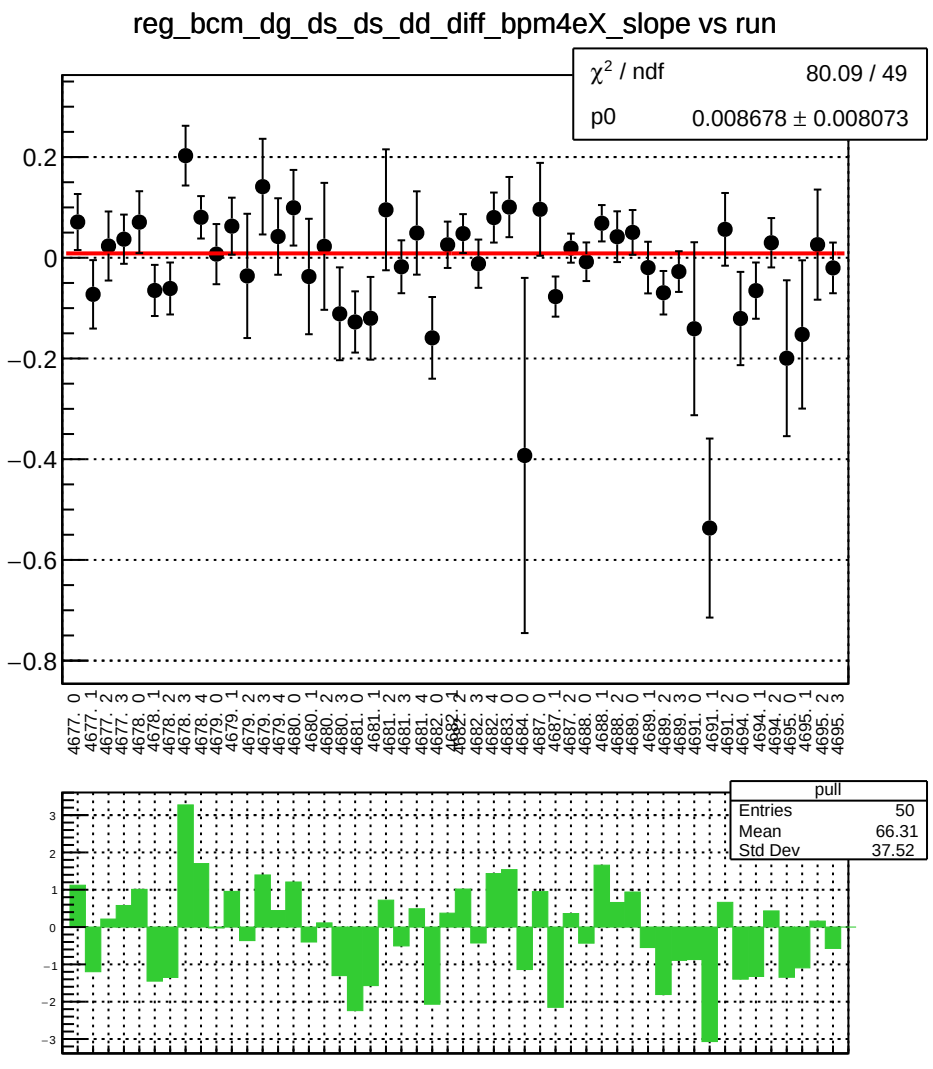

pull1D
Entries 50
Mean 0.07134
Std Dev 1.285

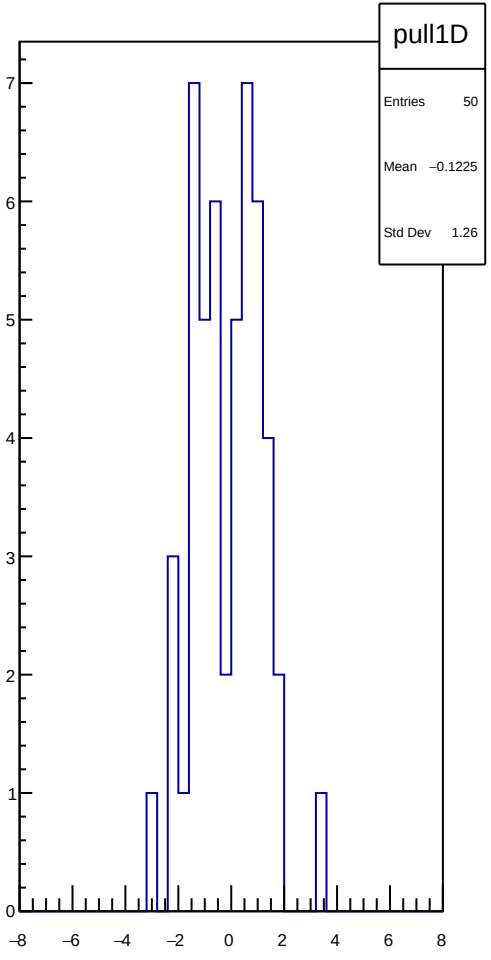

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 77.37 / 49
p0 0.002967 ± 0.03429
pull
Entries 50
Mean 99.89
Std Dev 72.38

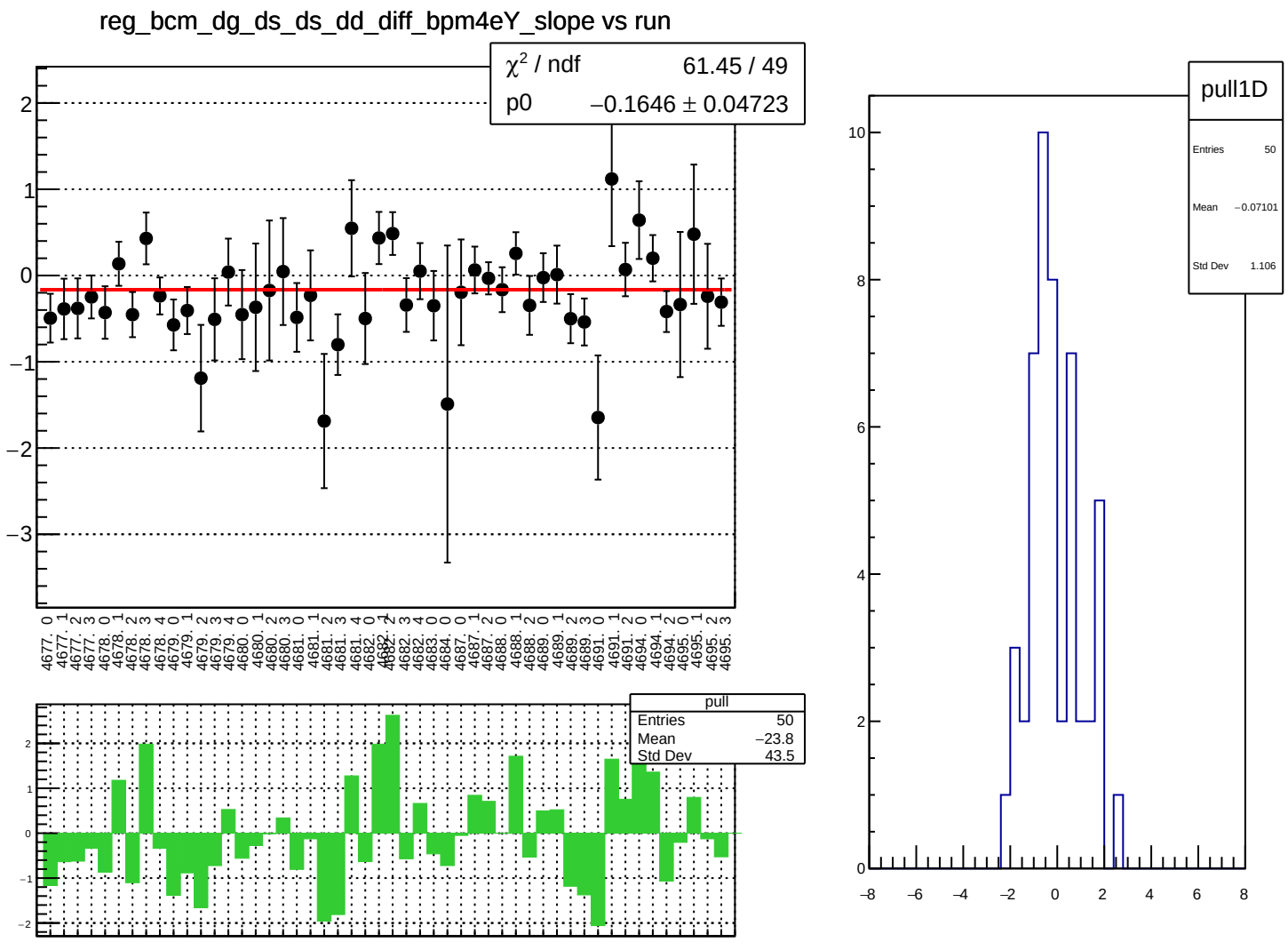

pull1D
Entries 50
Mean 0.08302
Std Dev 1.241

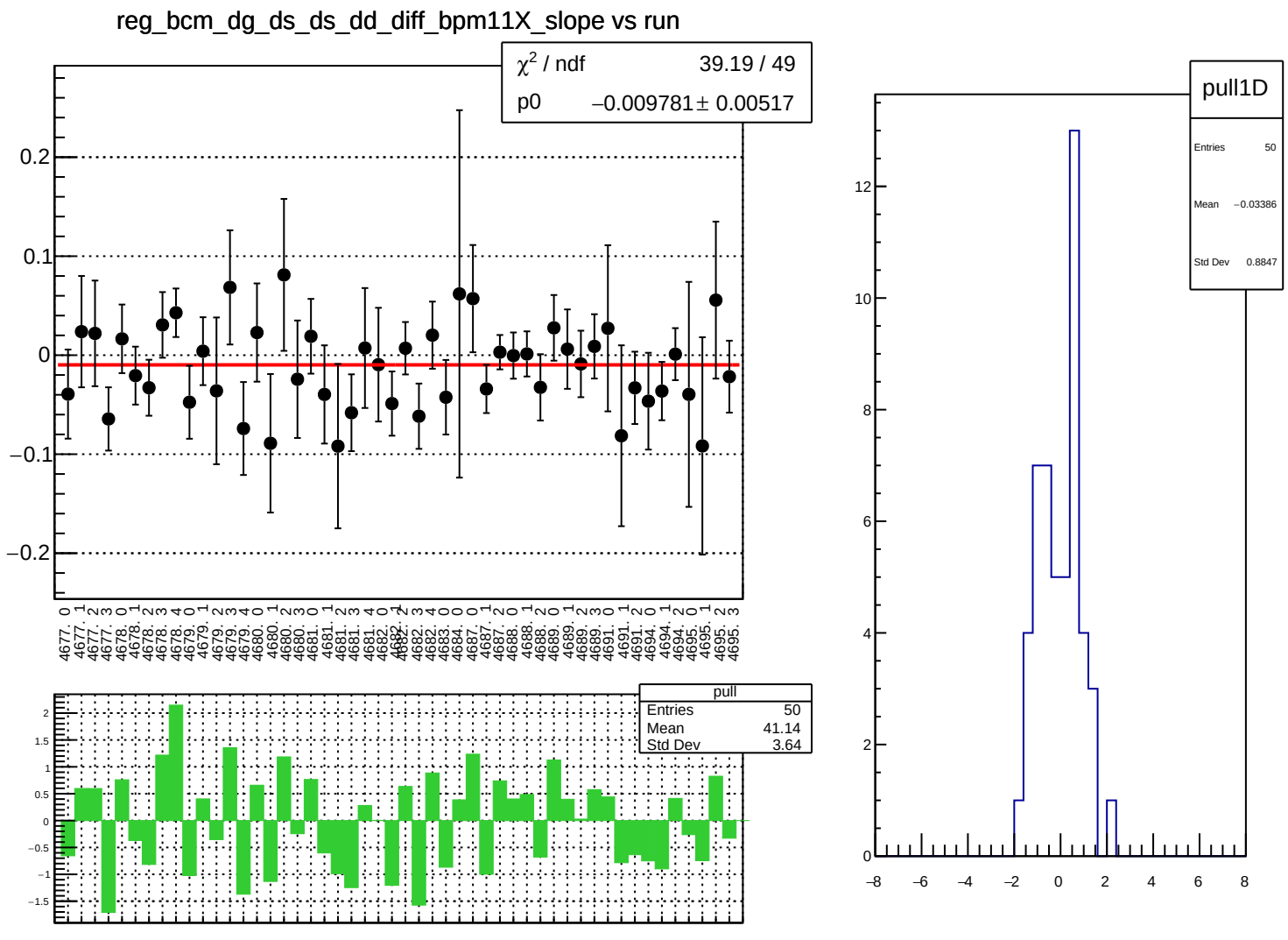

reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 60.27 / 49
p0 0.1277 ± 0.03566
pull
Entries 50
Mean −22.89
Std Dev 41.95


pull1D
Entries 50
Mean 0.06968
Std Dev 1.096


reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 80.09 / 49
p0 0.008678 ± 0.008073
pull
Entries 50
Mean 66.31
Std Dev 37.52


pull1D
Entries 50
Mean −0.1225
Std Dev 1.26


reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 61.45 / 49
p0 −0.1646 ± 0.04723
pull
Entries 50
Mean −23.8
Std Dev 43.5
pull1D
Entries 50
Mean −0.07101
Std Dev 1.106


reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 39.19 / 49
p0 −0.009781 ± 0.00517
pull
Entries 50
Mean 41.14
Std Dev 3.64
pull1D
Entries 50
Mean −0.03386
Std Dev 0.8847