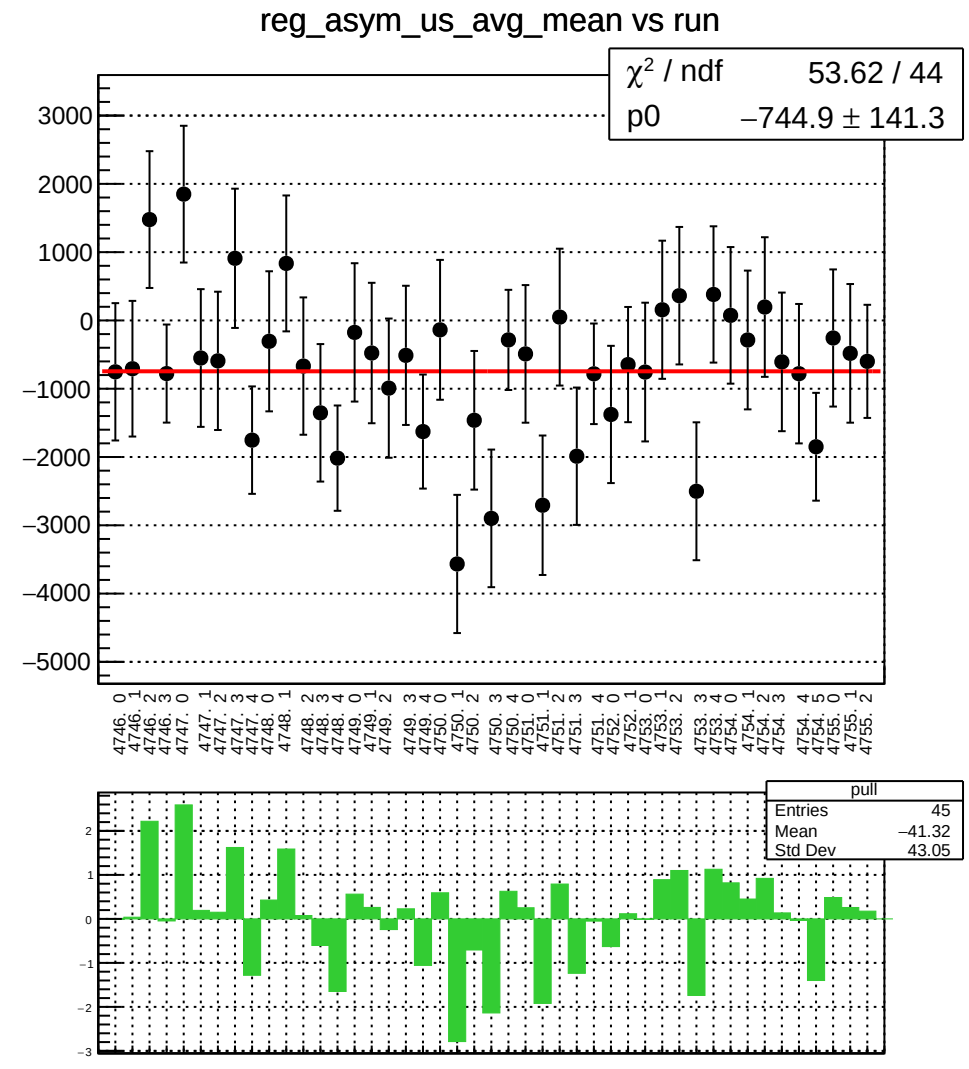
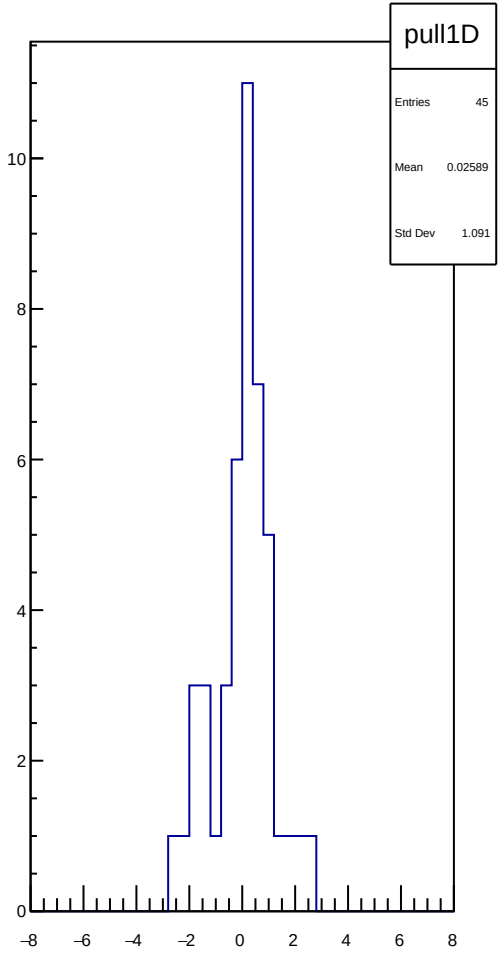
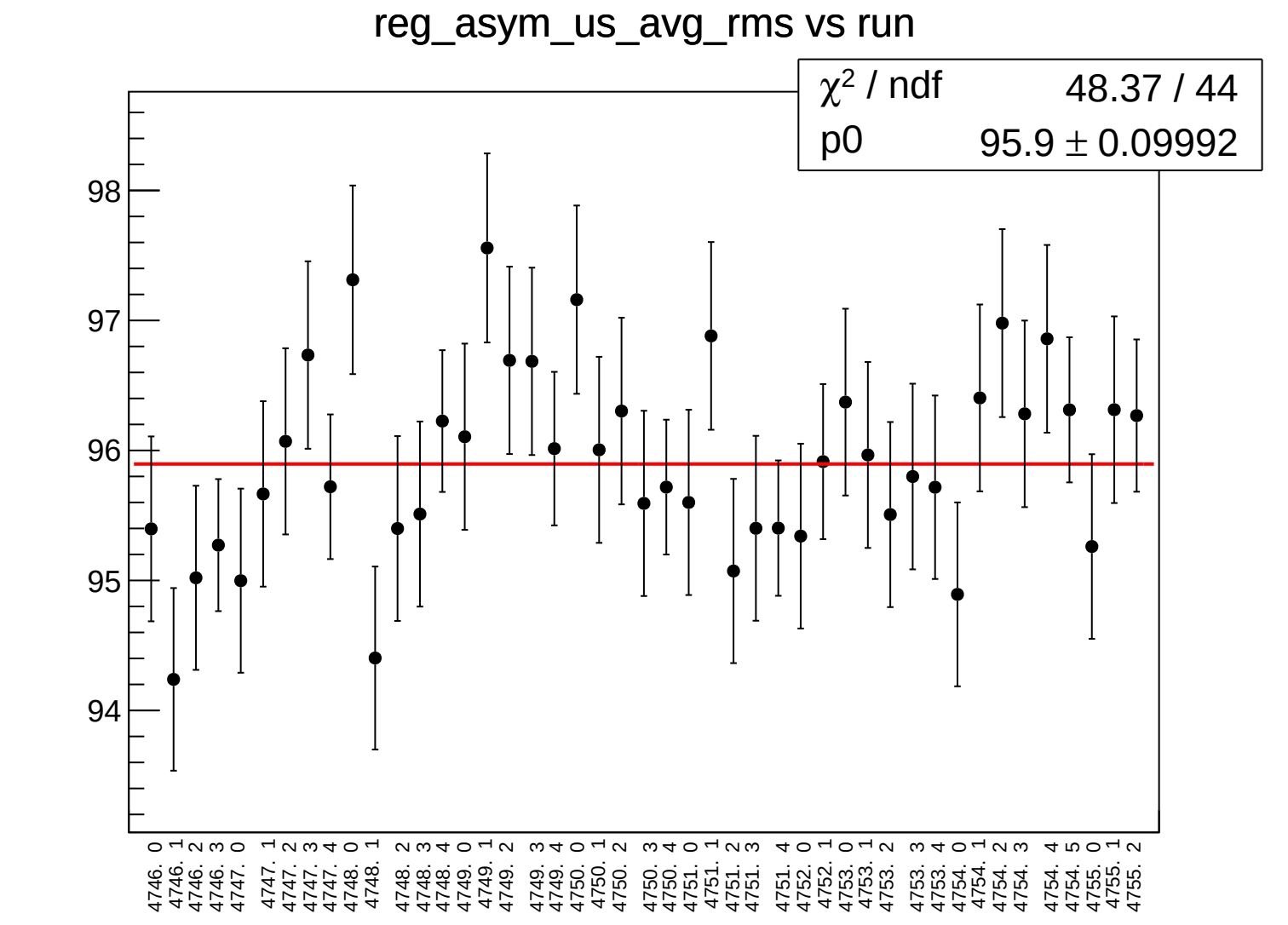
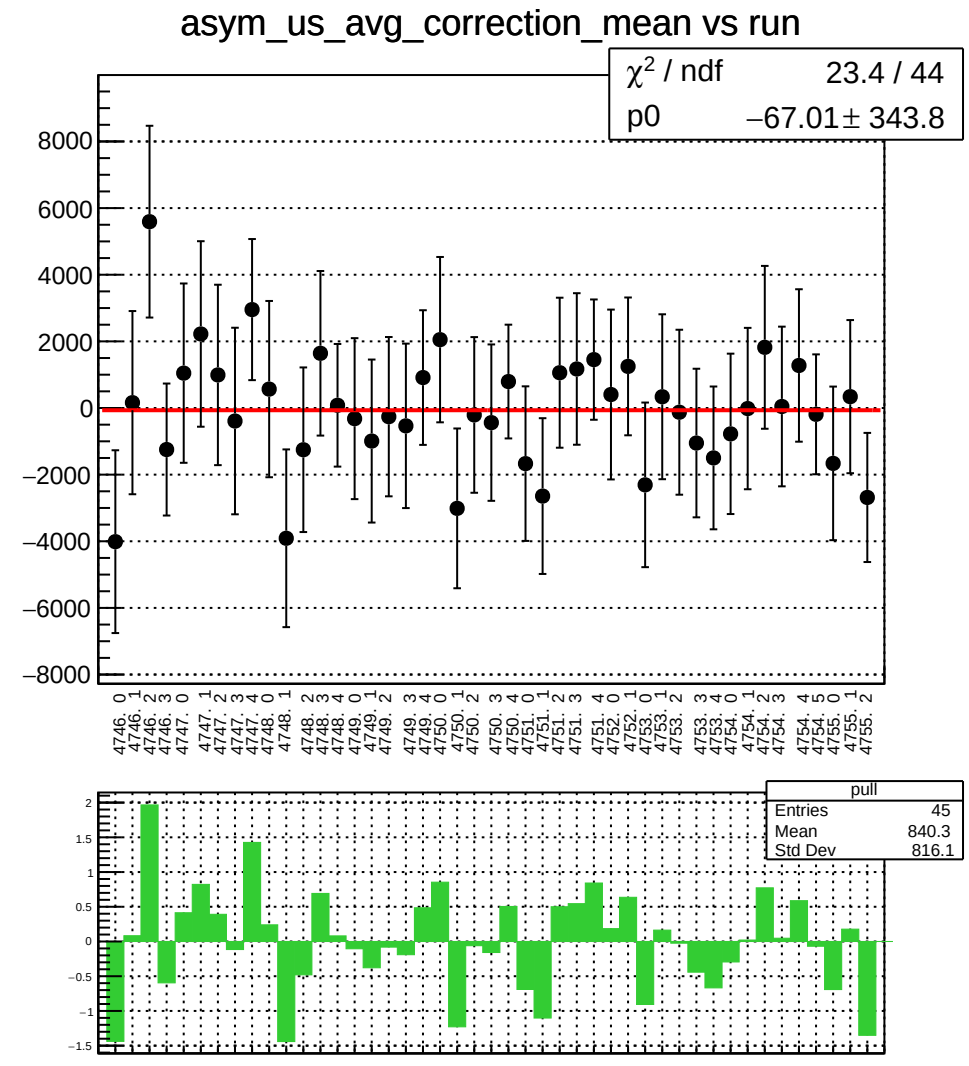
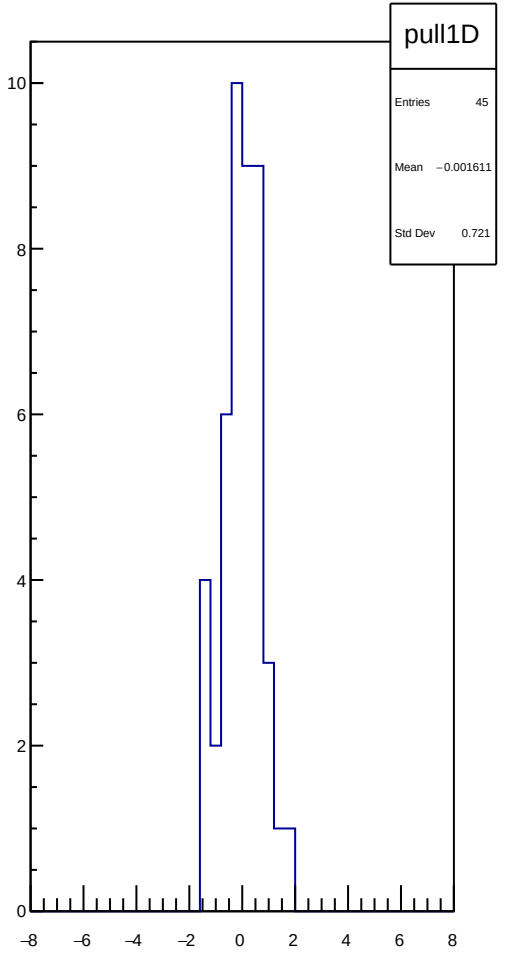
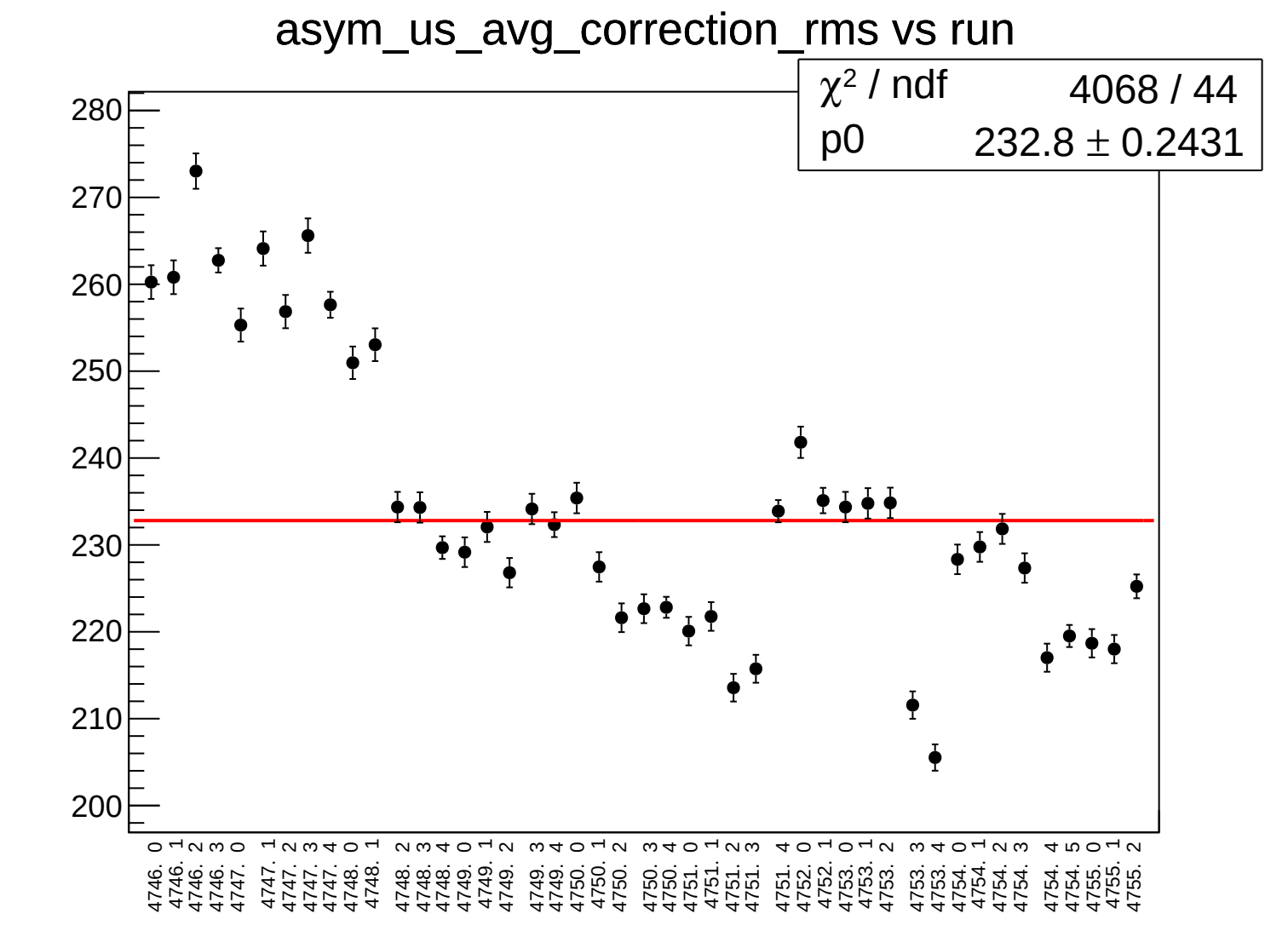

reg_asym_us_avg_mean vs run
χ² / ndf 53.62 / 44
p0 −744.9 ± 141.3
pull
Entries 45
Mean −41.32
Std Dev 43.05

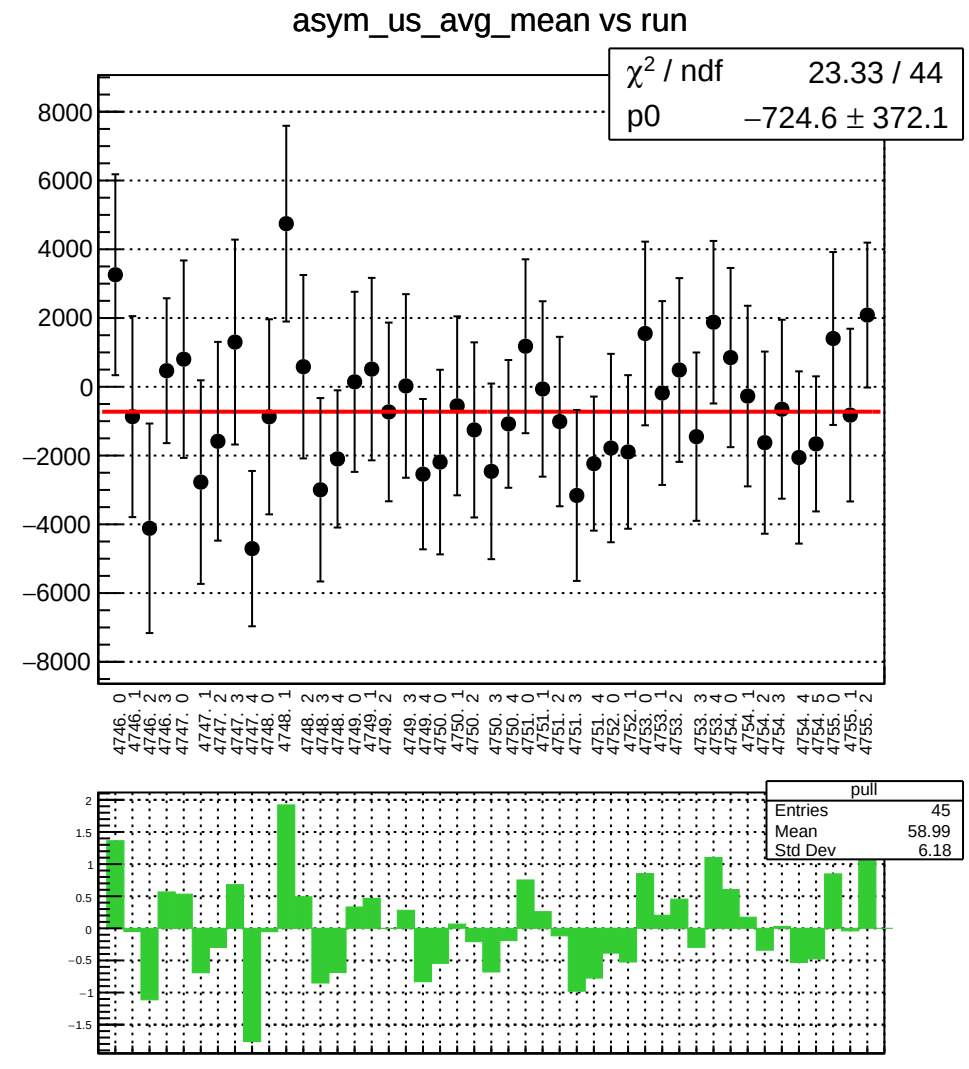

pull1D
Entries 45
Mean 0.02589
Std Dev 1.091

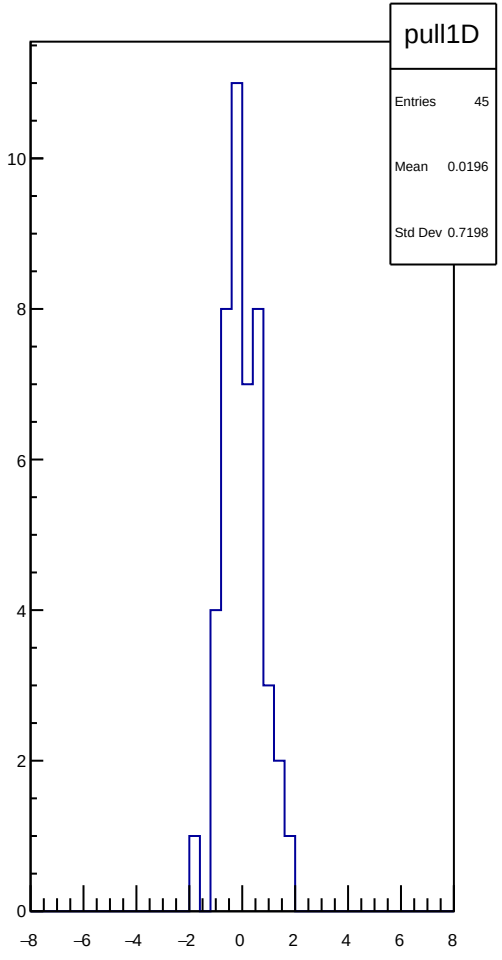

reg_asym_us_avg_rms vs run
χ² / ndf 48.37 / 44
p0 95.9 ± 0.09992
98
97
96
95
94
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

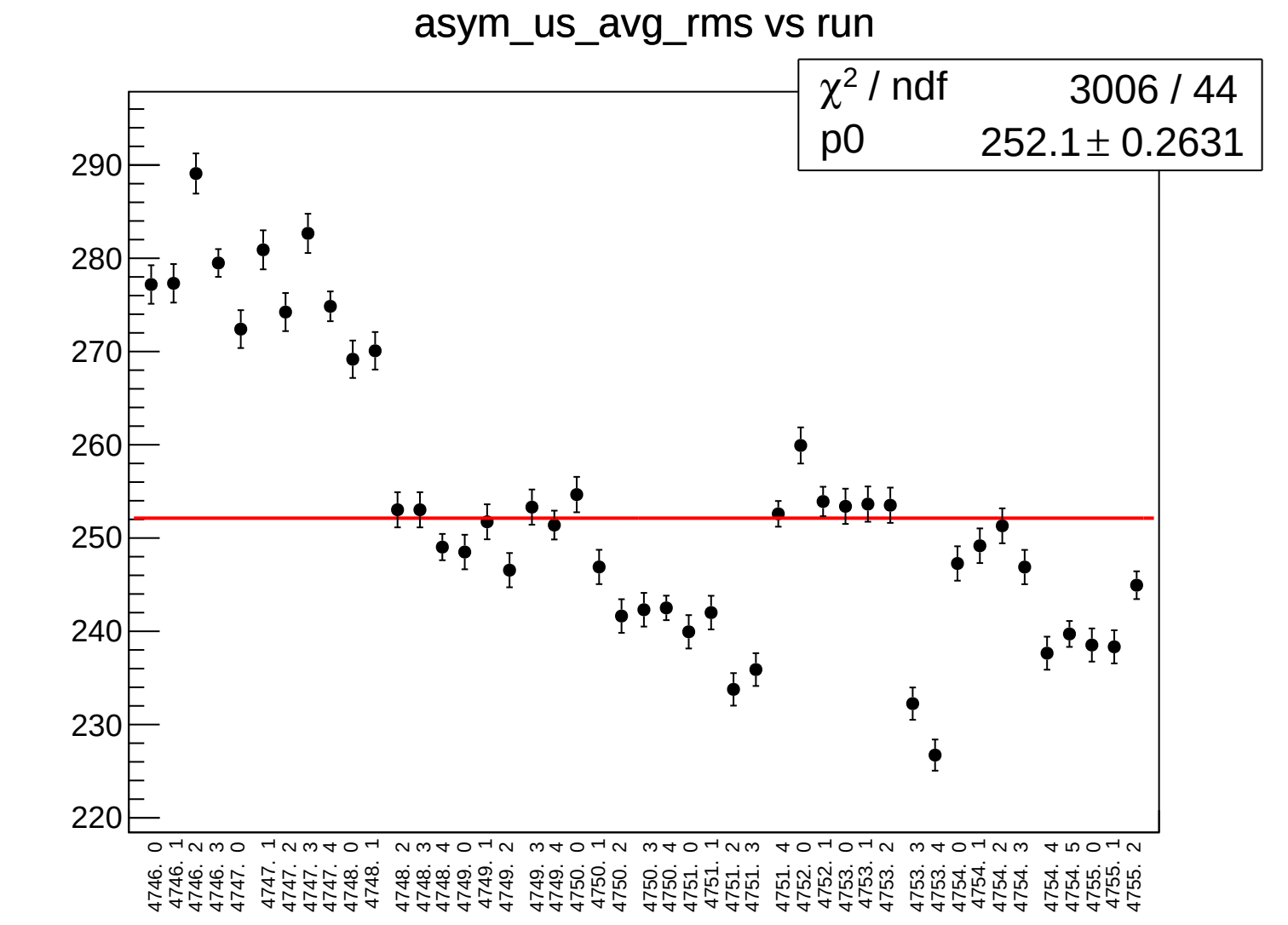

asym_us_avg_correction_mean vs run
χ² / ndf 23.4 / 44
p0 −67.01± 343.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 840.3
Std Dev 816.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

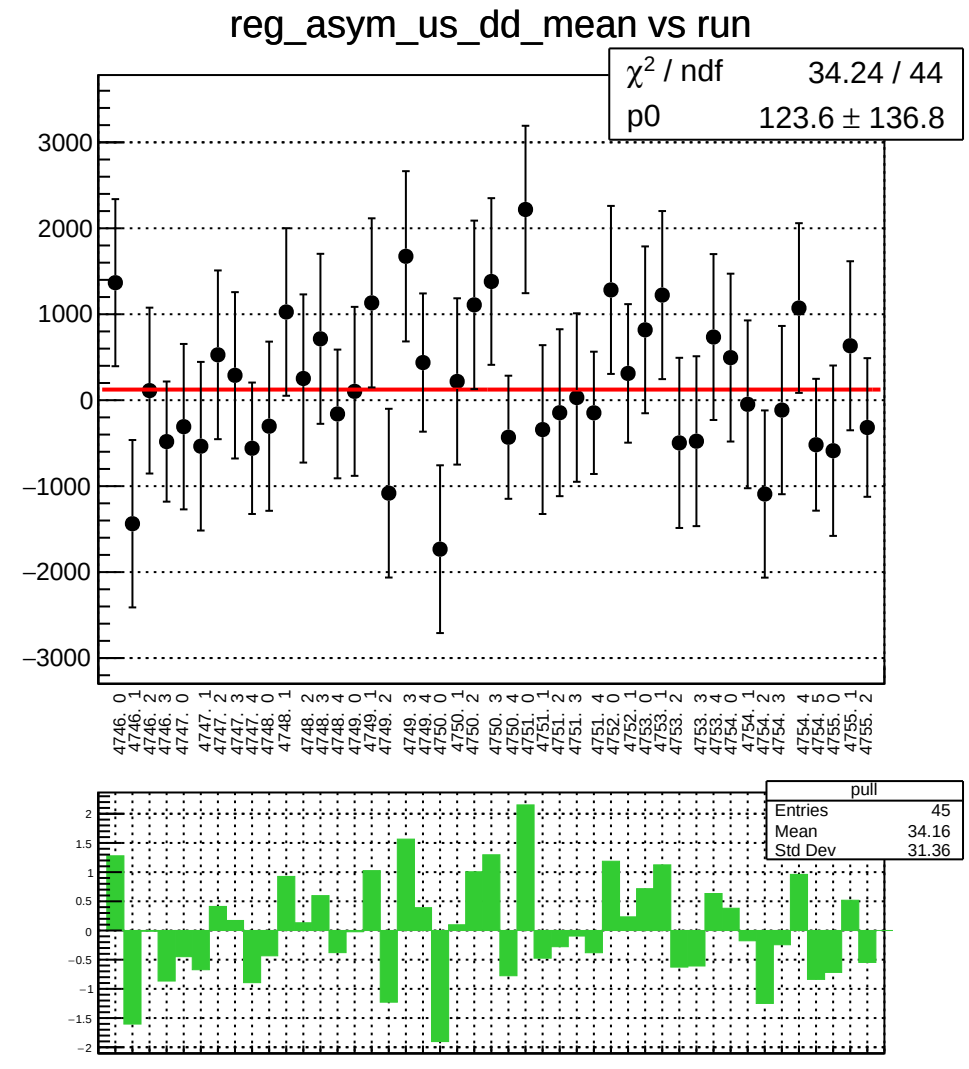

pull1D
Entries 45
Mean −0.001611
Std Dev 0.721
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

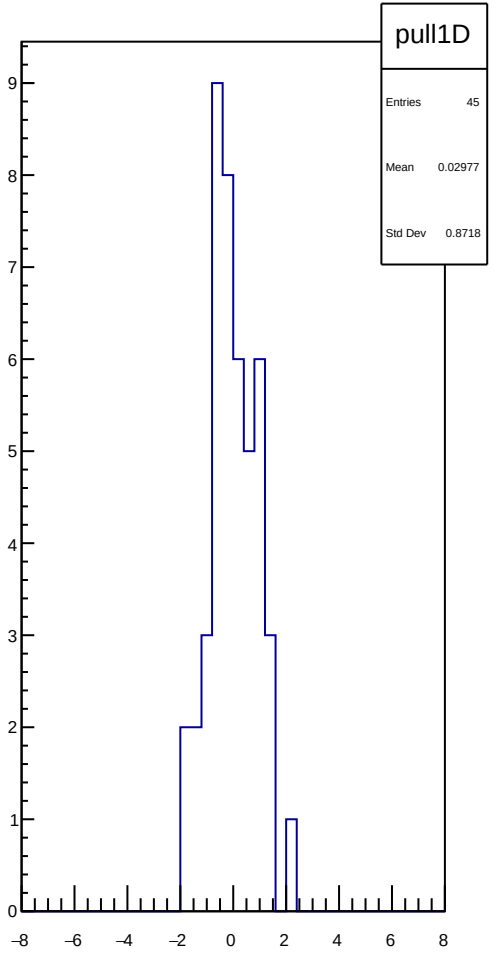

asym_us_avg_correction_rms vs run
χ² / ndf 4068 / 44
p0 232.8 ± 0.2431
280
270
260
250
240
230
220
210
200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

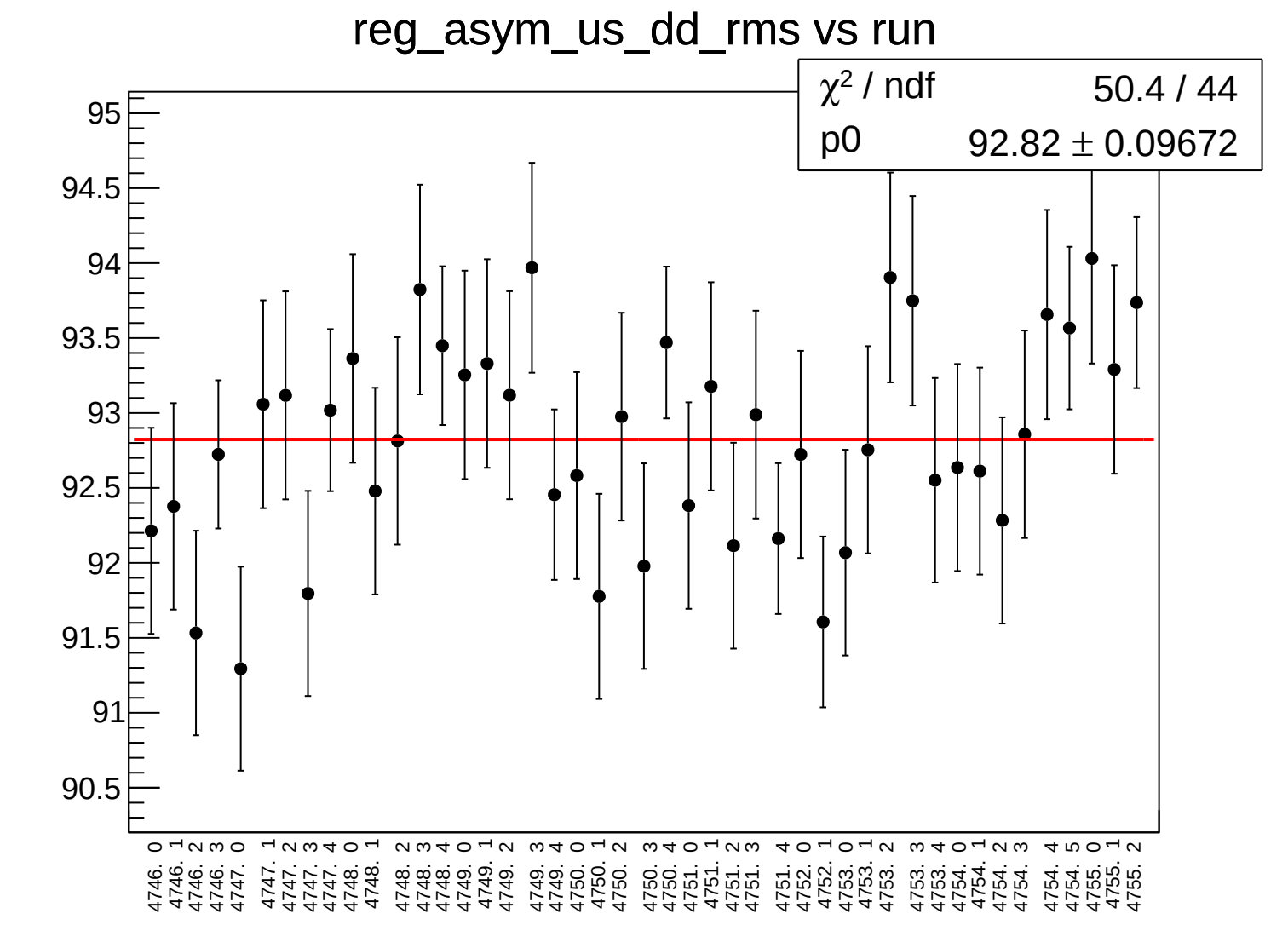

asym_us_avg_mean vs run
χ² / ndf 23.33 / 44
p0 −724.6 ± 372.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 58.99
Std Dev 6.18
2
1.5
1
0.5
0
−0.5
−1
−1.5

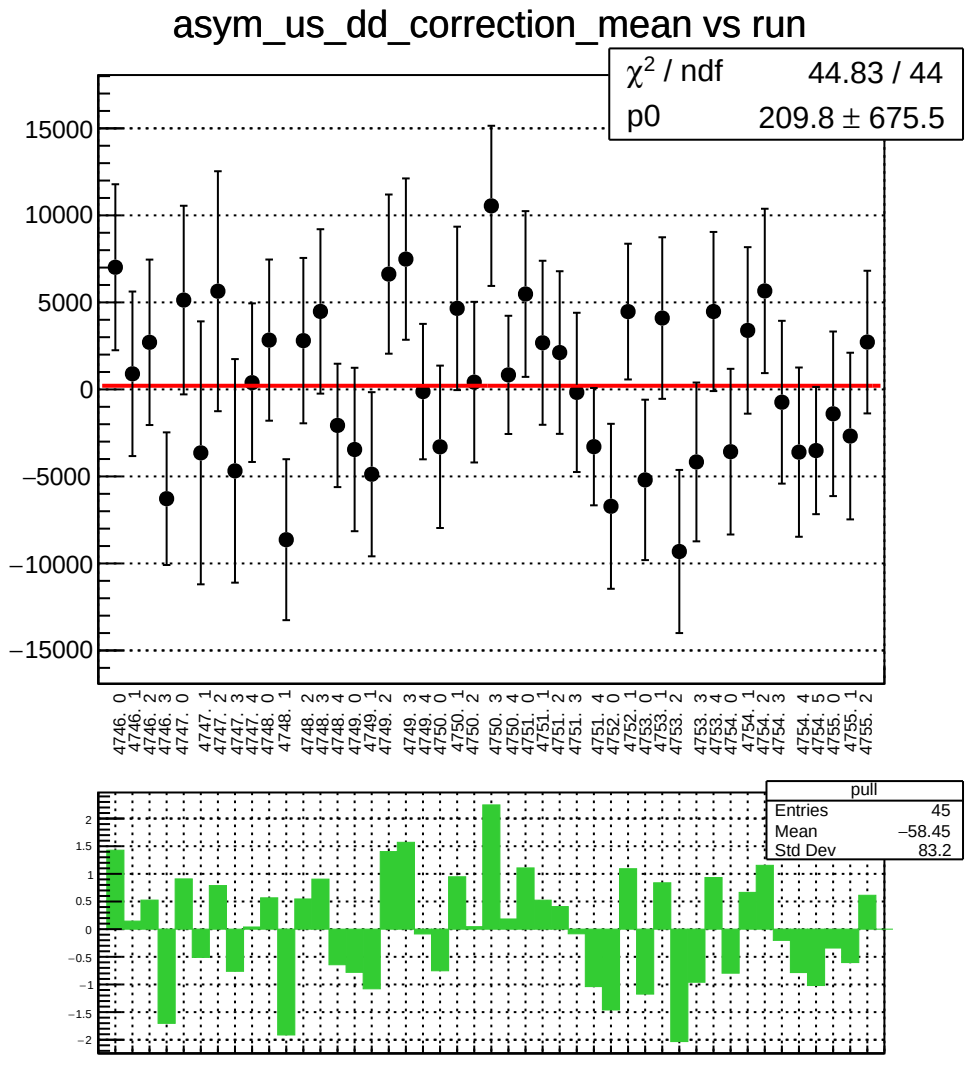

pull1D
Entries 45
Mean 0.0196
Std Dev 0.7198
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

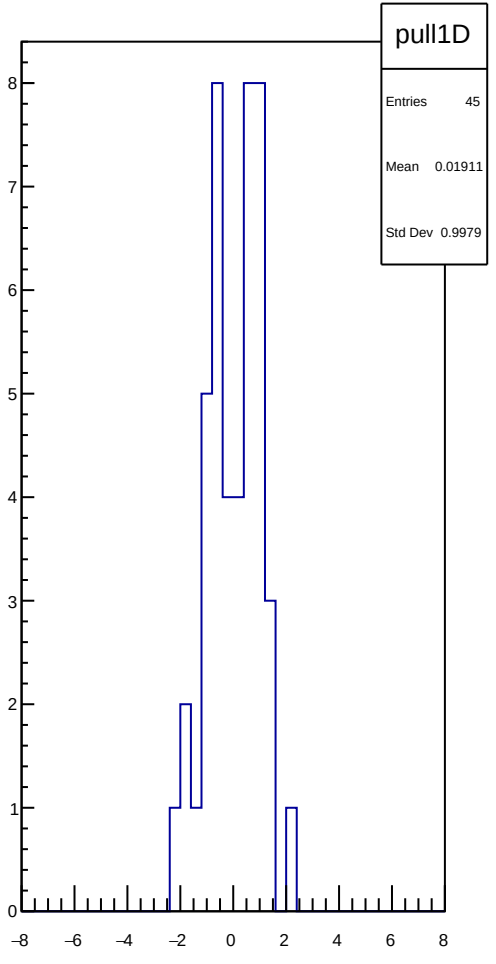

asym_us_avg_rms vs run
χ^2 / ndf 3006 / 44
p0 252.1 ± 0.2631
290
280
270
260
250
240
230
220
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

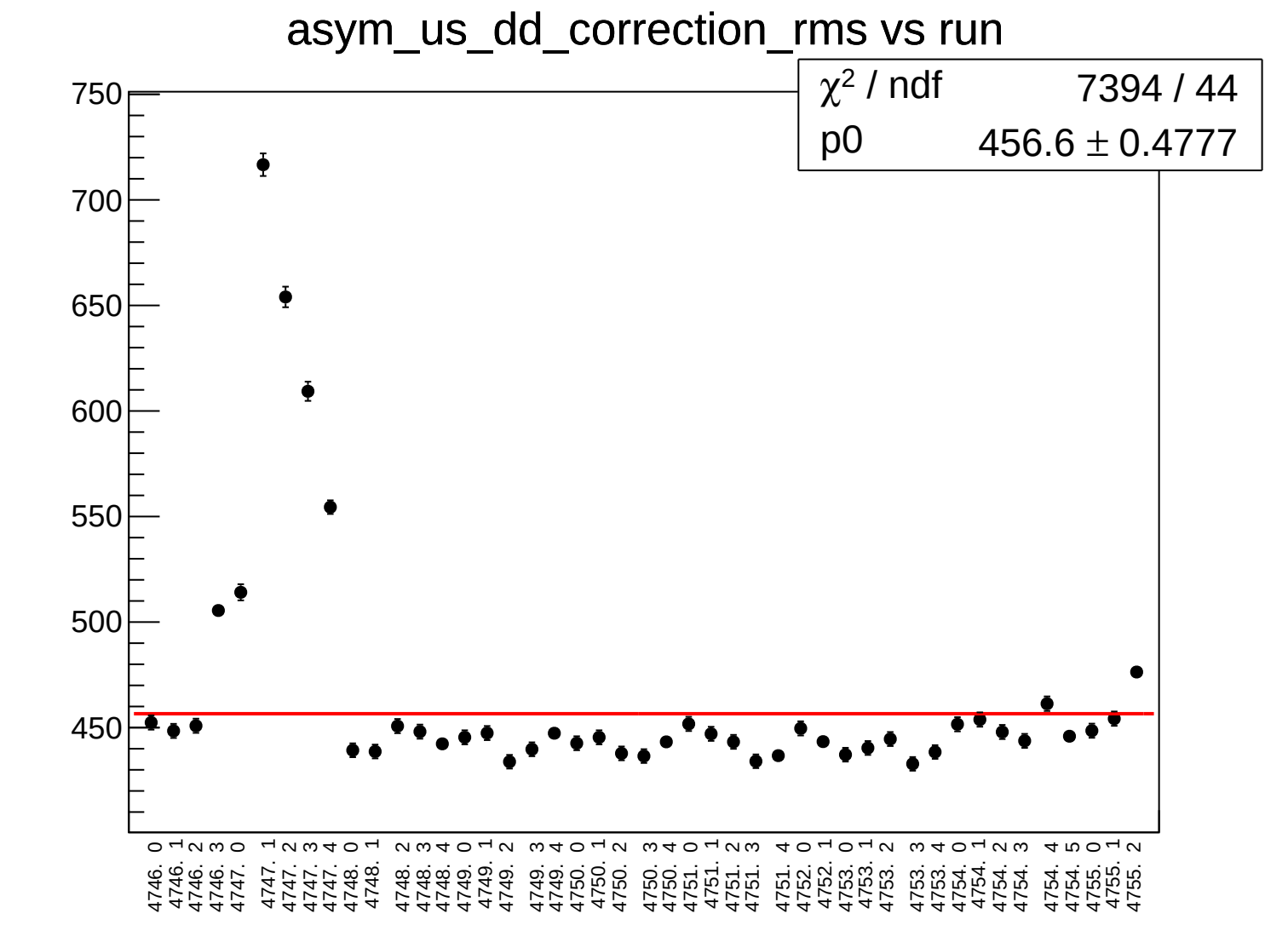

reg_asym_us_dd_mean vs run
χ^2 / ndf 34.24 / 44
p0 123.6 ± 136.8
3000
2000
1000
0
−1000
−2000
−3000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 34.16
Std Dev 31.36
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

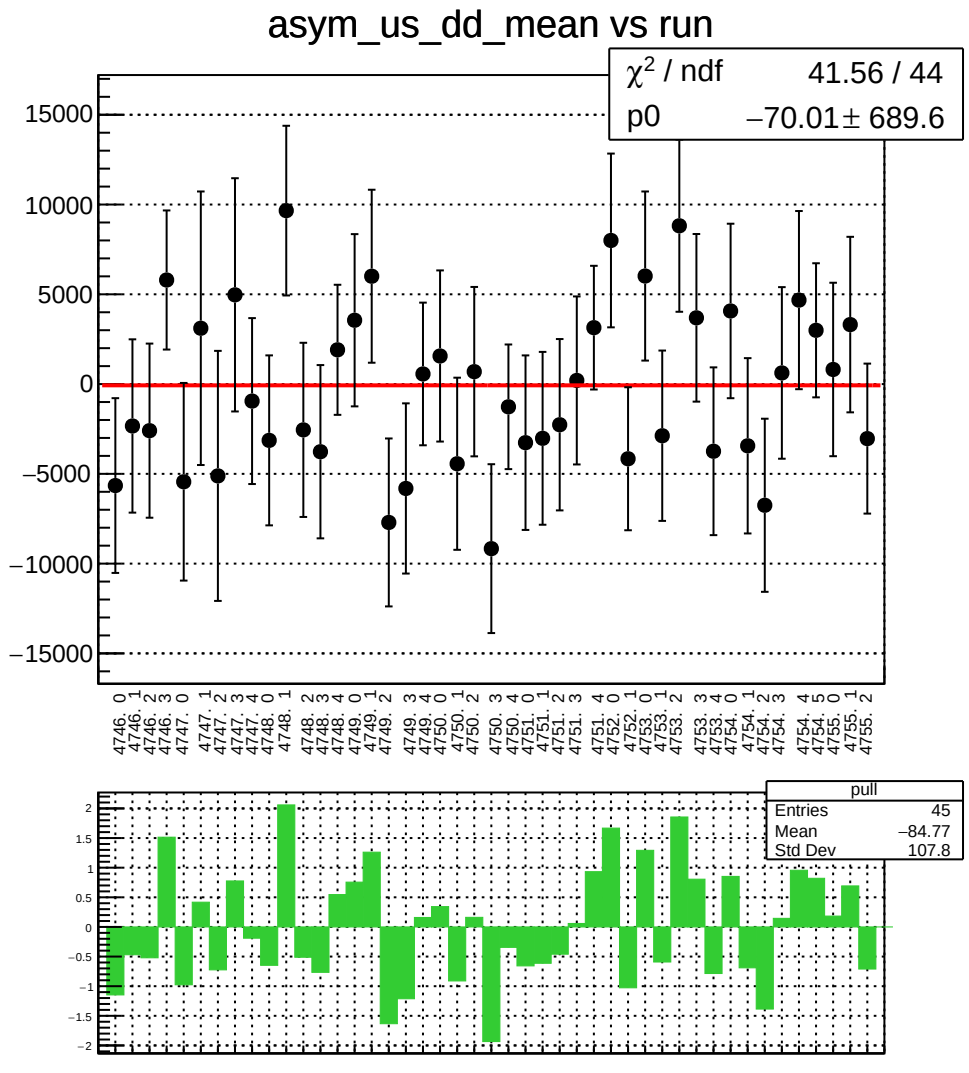

pull1D
Entries 45
Mean 0.02977
Std Dev 0.8718
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

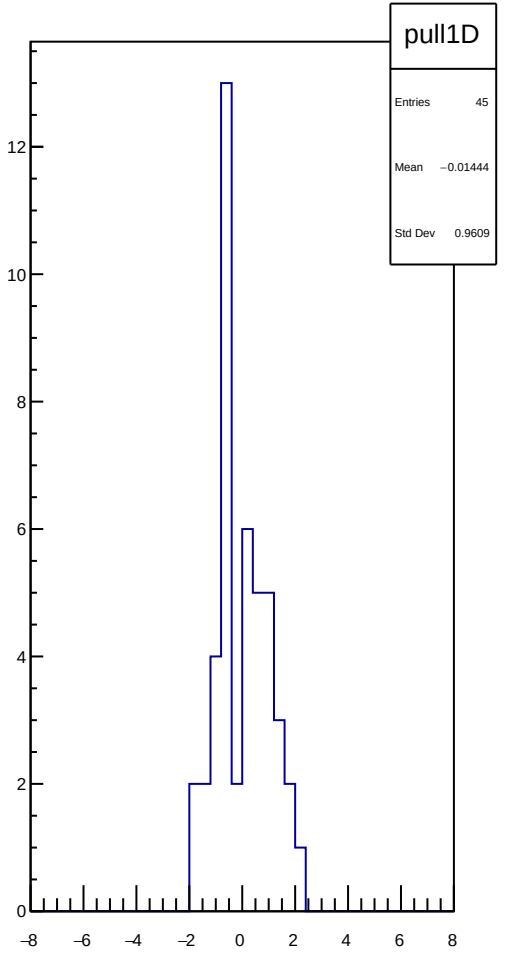

reg_asym_us_dd_rms vs run
χ² / ndf 50.4 / 44
p0 92.82 ± 0.09672
95
94.5
94
93.5
93
92.5
92
91.5
91
90.5
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

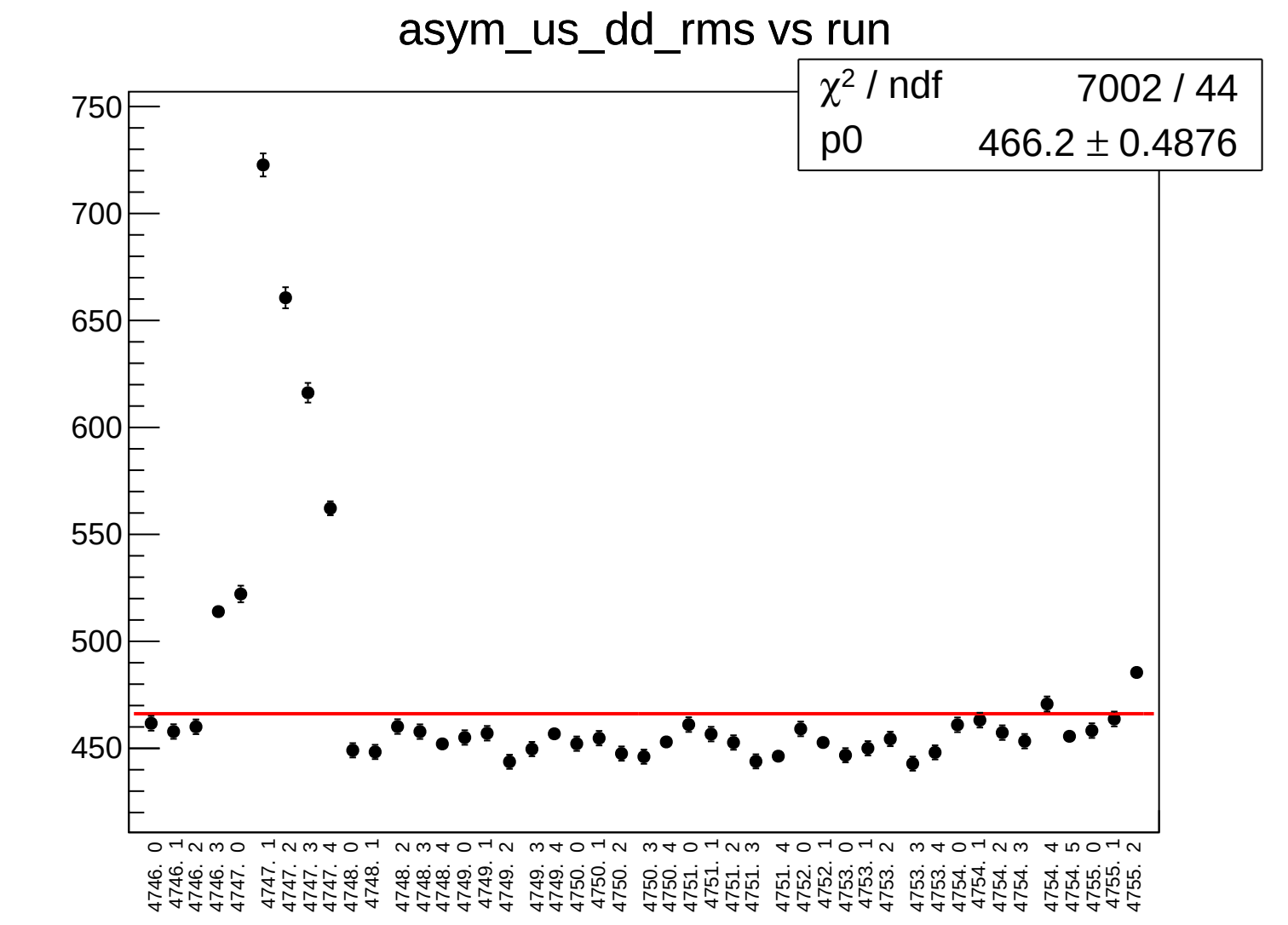

asym_us_dd_correction_mean vs run
χ² / ndf 44.83 / 44
p0 209.8 ± 675.5
15000
10000
5000
0
−5000
−10000
−15000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −58.45
Std Dev 83.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

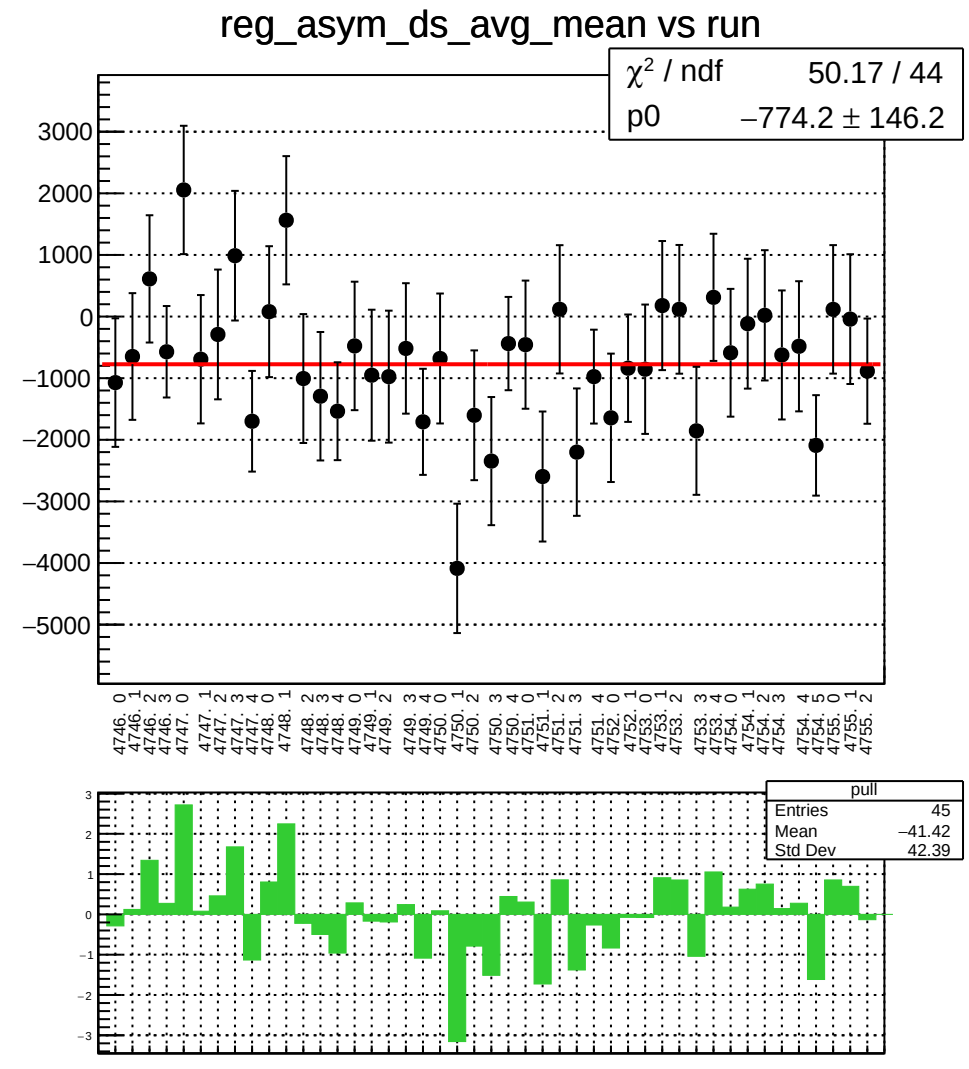

pull1D
Entries 45
Mean 0.01911
Std Dev 0.9979
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

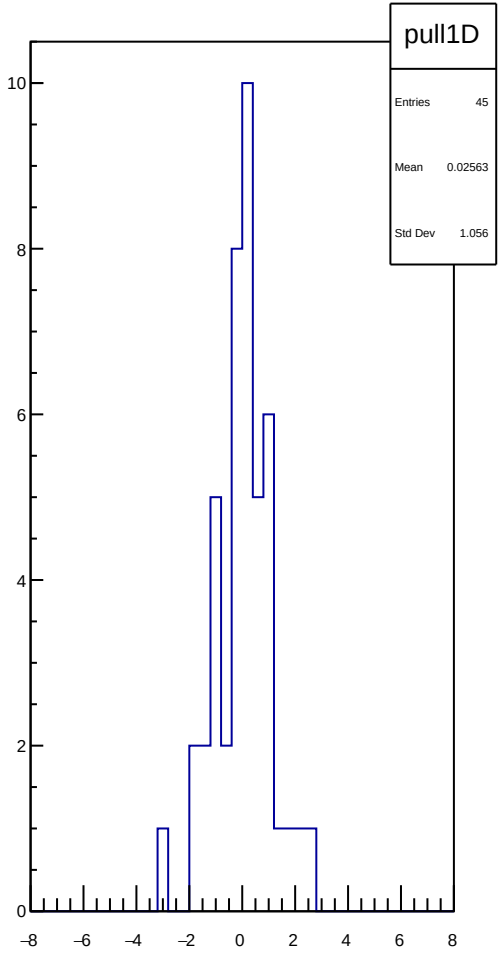

asym_us_dd_correction_rms vs run
χ² / ndf 7394 / 44
p0 456.6 ± 0.4777
750
700
650
600
550
500
450
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

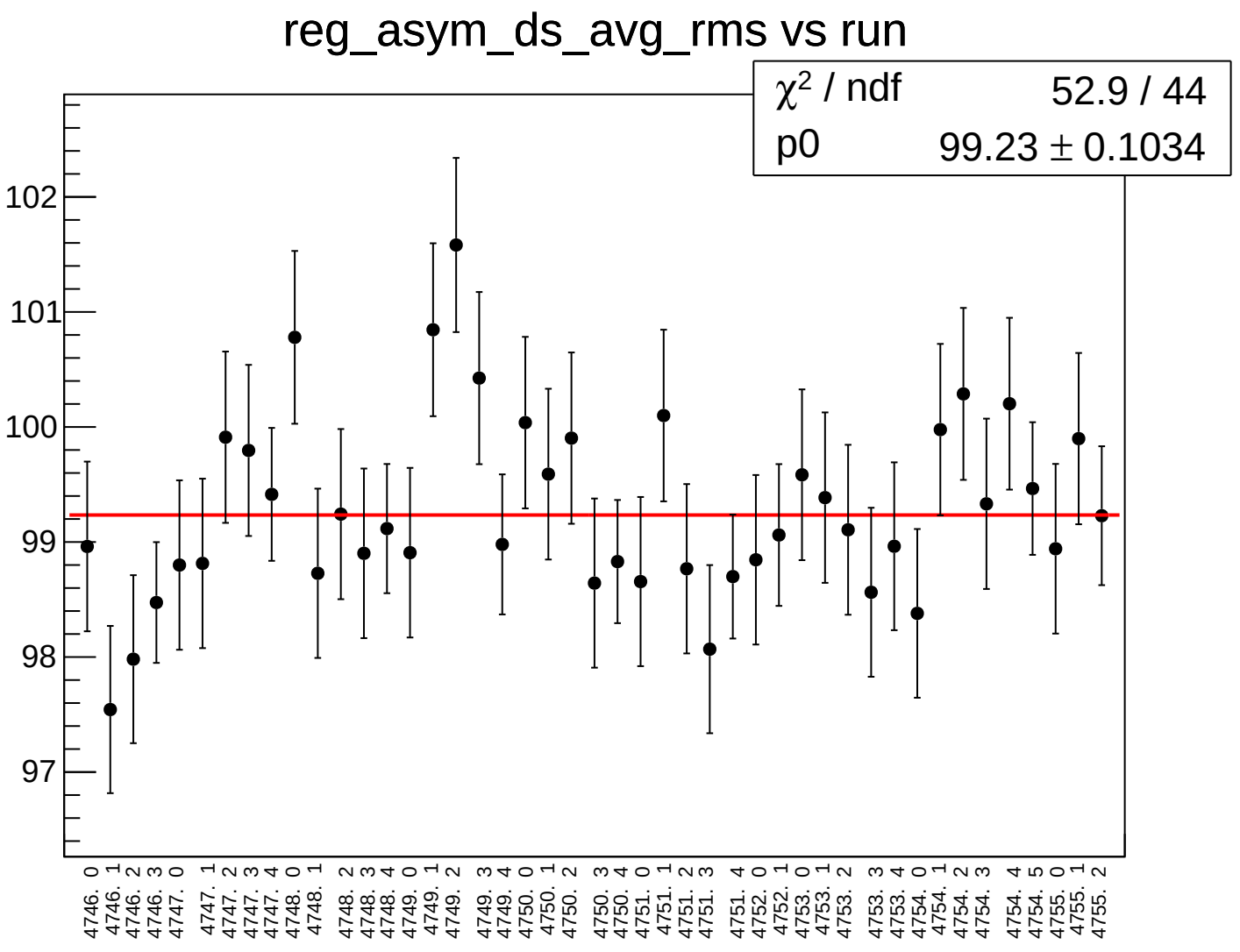

asym_us_dd_mean vs run
χ² / ndf 41.56 / 44
p0 −70.01 ± 689.6
15000
10000
5000
0
−5000
−10000
−15000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −84.77
Std Dev 107.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

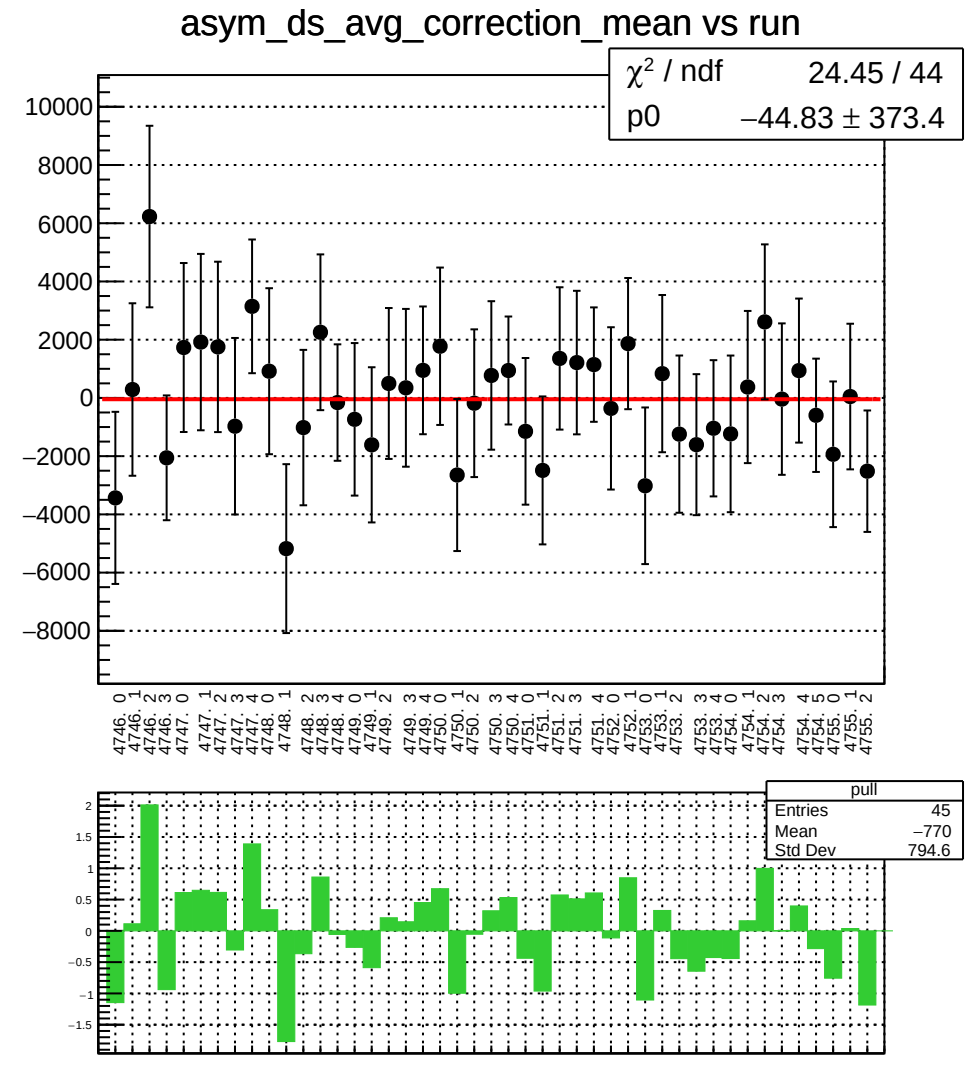

pull1D
Entries 45
Mean −0.01444
Std Dev 0.9609
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

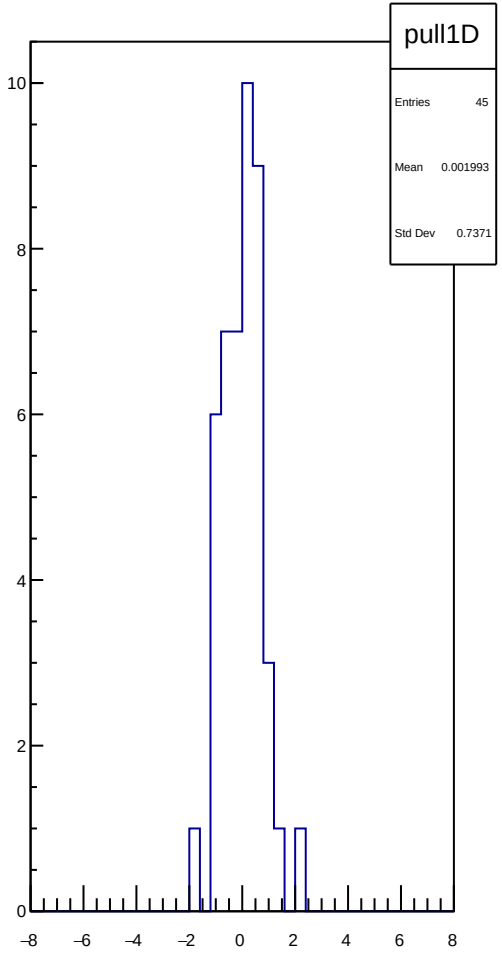

asym_us_dd_rms vs run
χ² / ndf 7002 / 44
p0 466.2 ± 0.4876
750
700
650
600
550
500
450
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

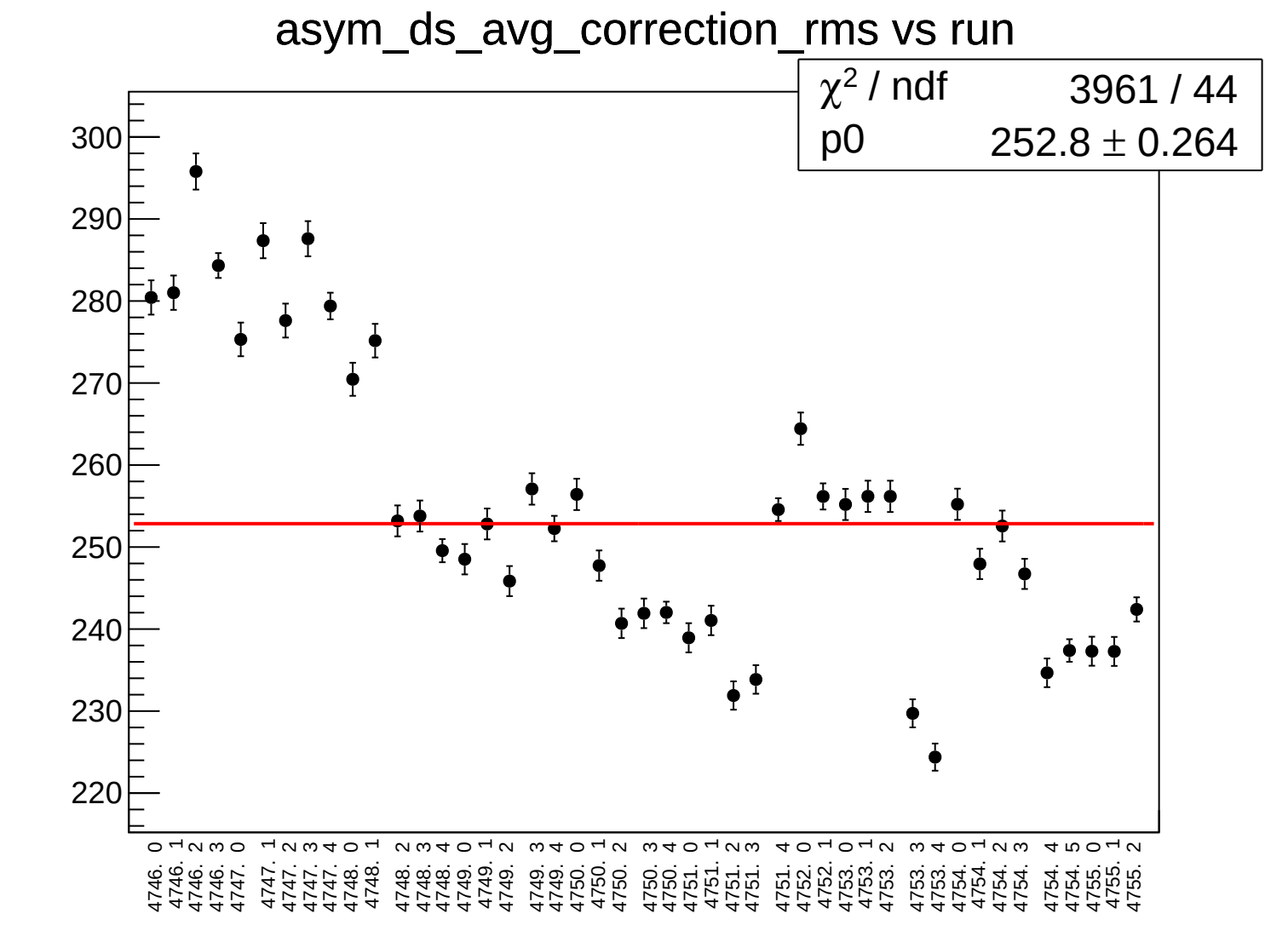

reg_asym_ds_avg_mean vs run
χ^2 / ndf 50.17 / 44
p0 −774.2 ± 146.2
pull
Entries 45
Mean −41.42
Std Dev 42.39

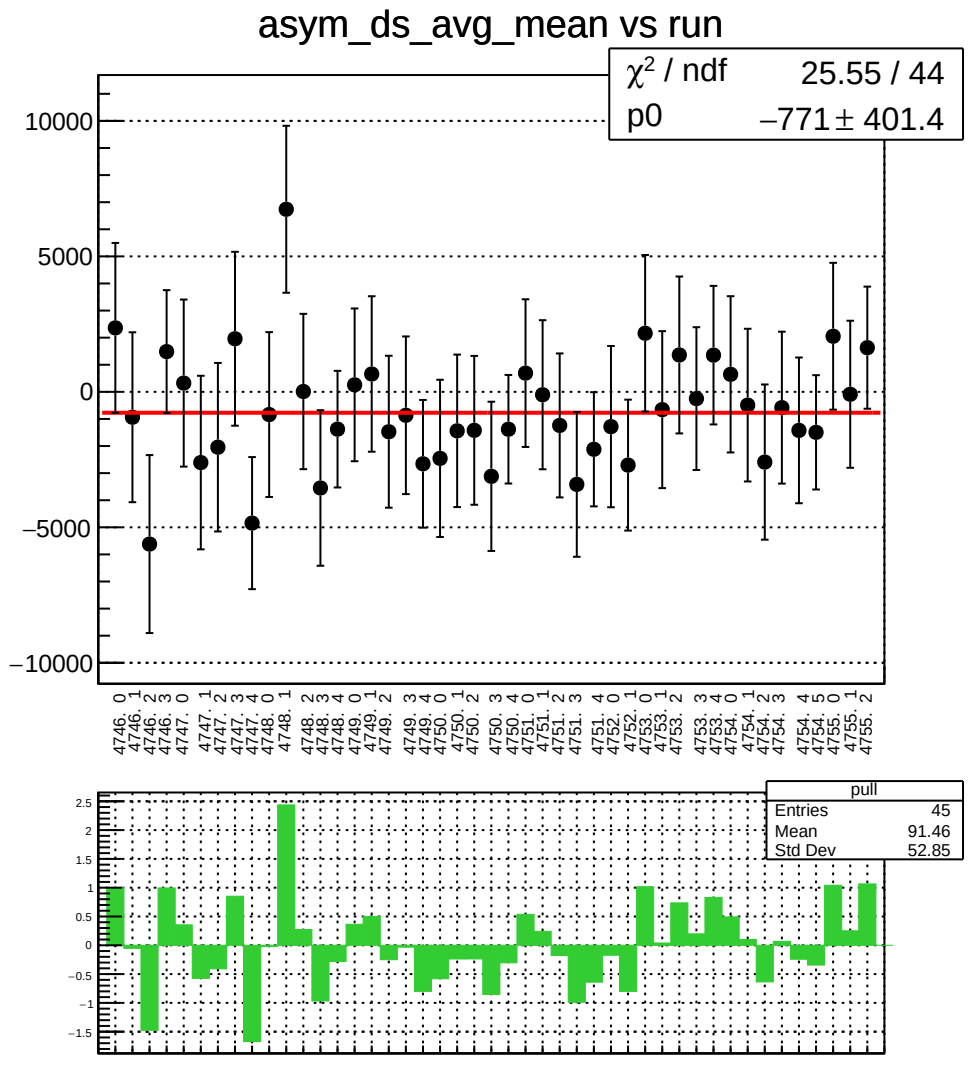

pull1D
Entries 45
Mean 0.02563
Std Dev 1.056

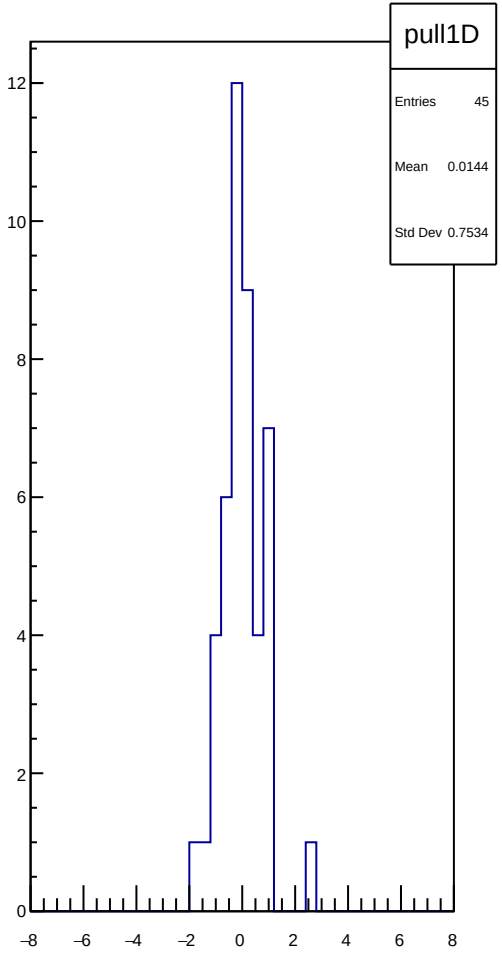

reg_asym_ds_avg_rms vs run
χ² / ndf 52.9 / 44
p0 99.23 ± 0.1034
102
101
100
99
98
97
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

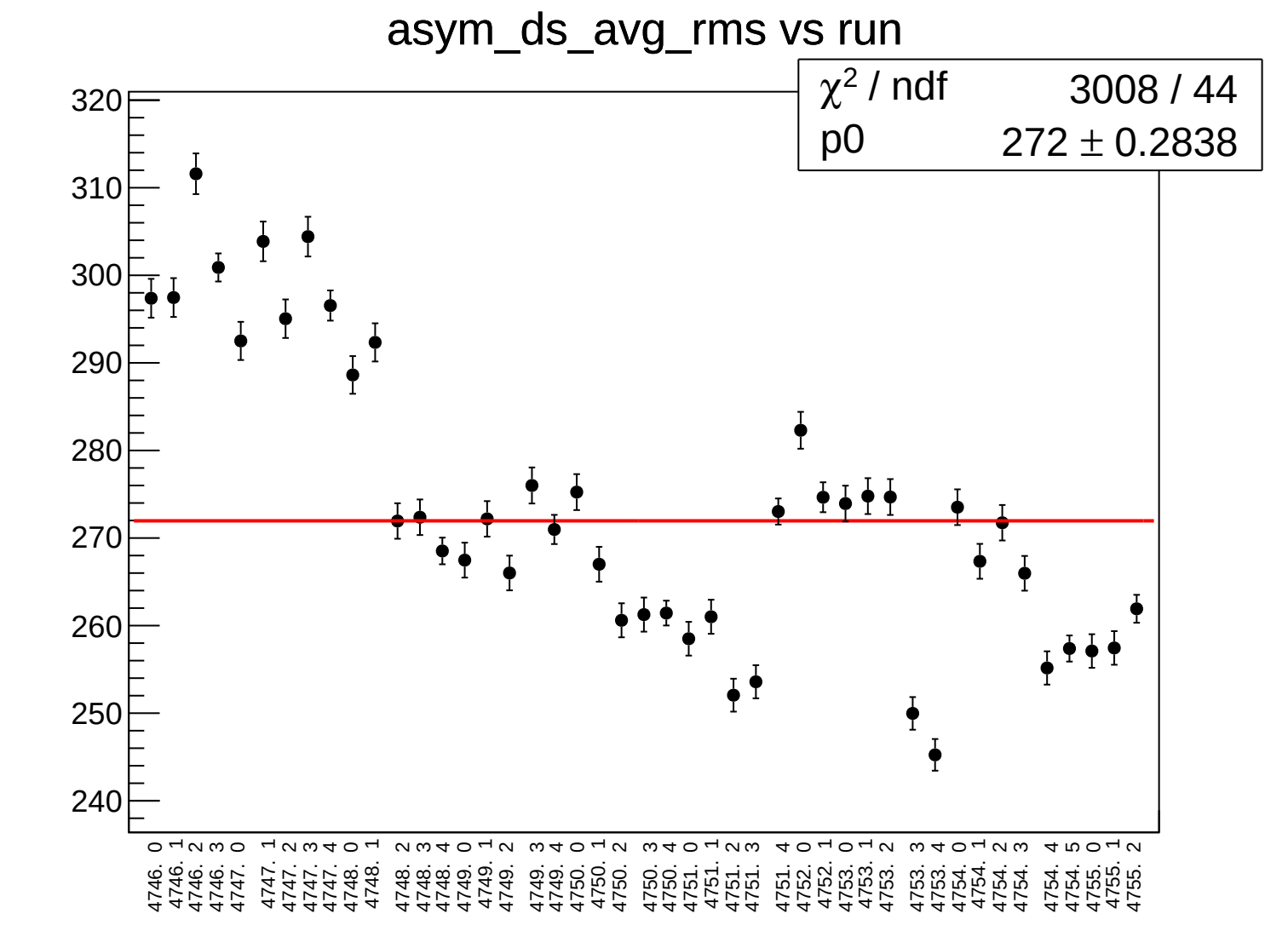

asym_ds_avg_correction_mean vs run
χ² / ndf 24.45 / 44
p0 −44.83 ± 373.4
pull
Entries 45
Mean −770
Std Dev 794.6

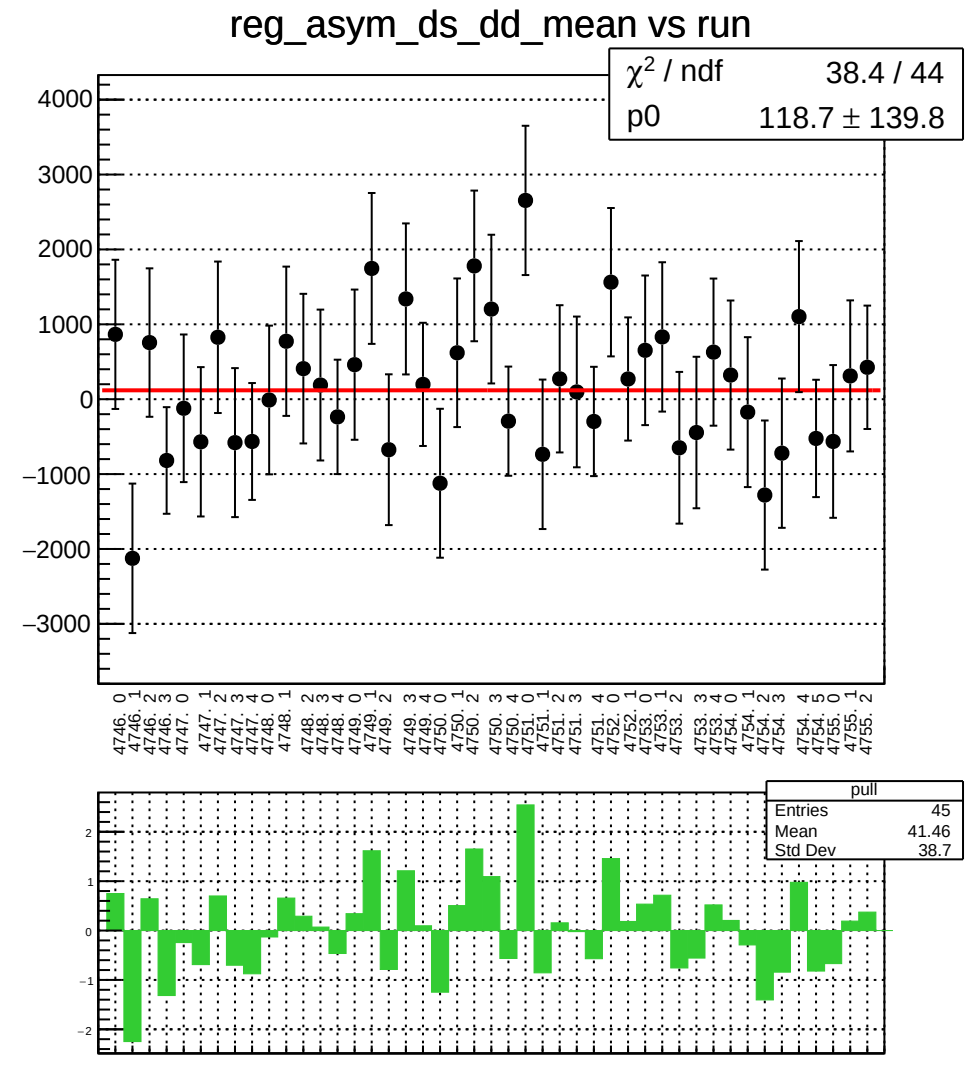

pull1D
Entries 45
Mean 0.001993
Std Dev 0.7371

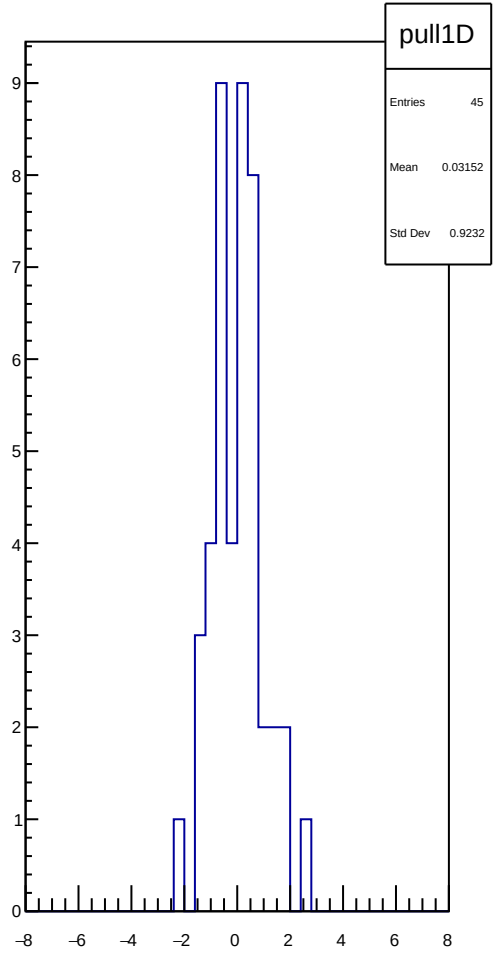

asym_ds_avg_correction_rms vs run
χ² / ndf 3961 / 44
p0 252.8 ± 0.264
300
290
280
270
260
250
240
230
220
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

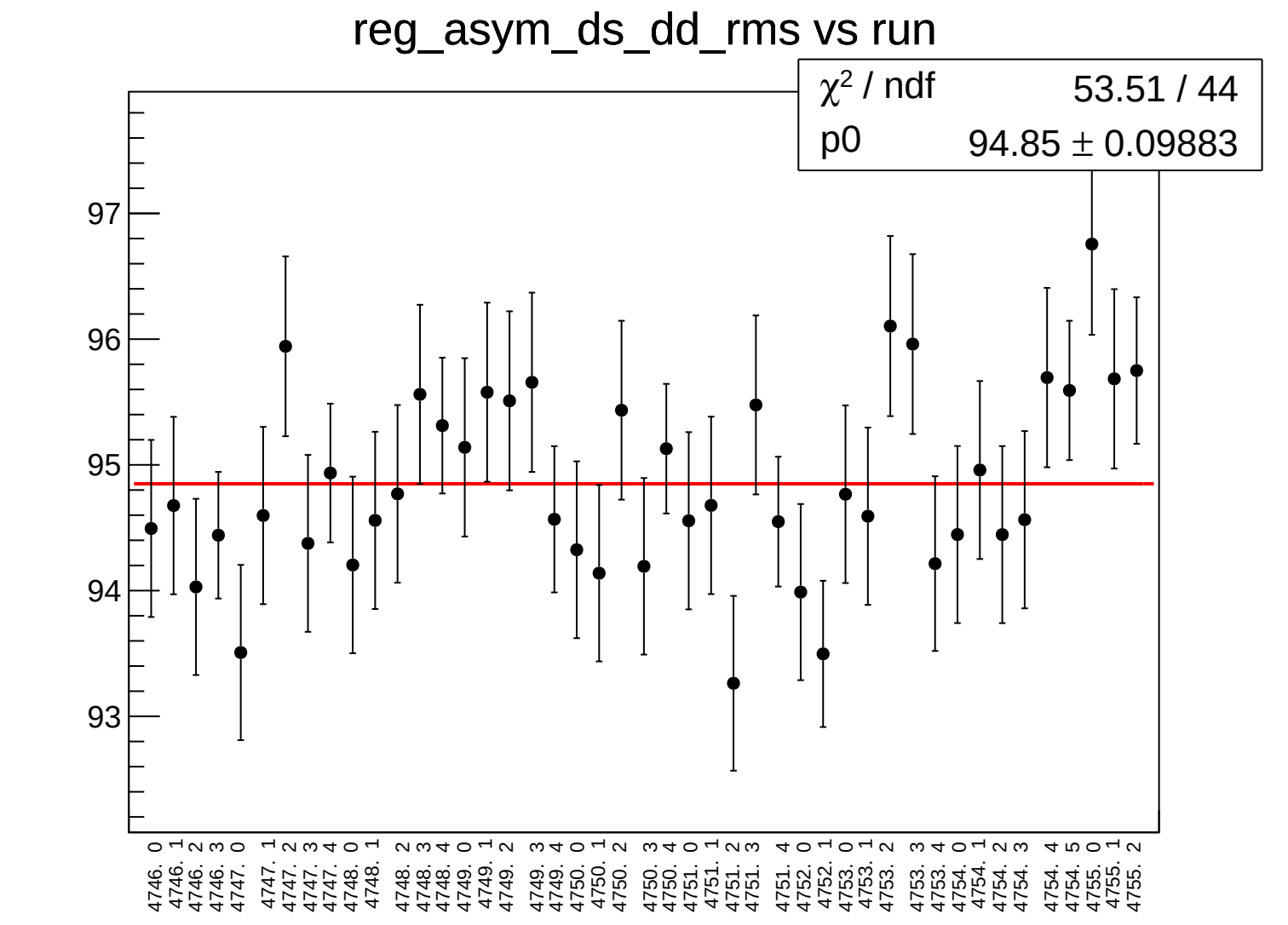

asym_ds_avg_mean vs run
χ² / ndf 25.55 / 44
p0 −771 ± 401.4
10000
5000
0
−5000
−10000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 91.46
Std Dev 52.85
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

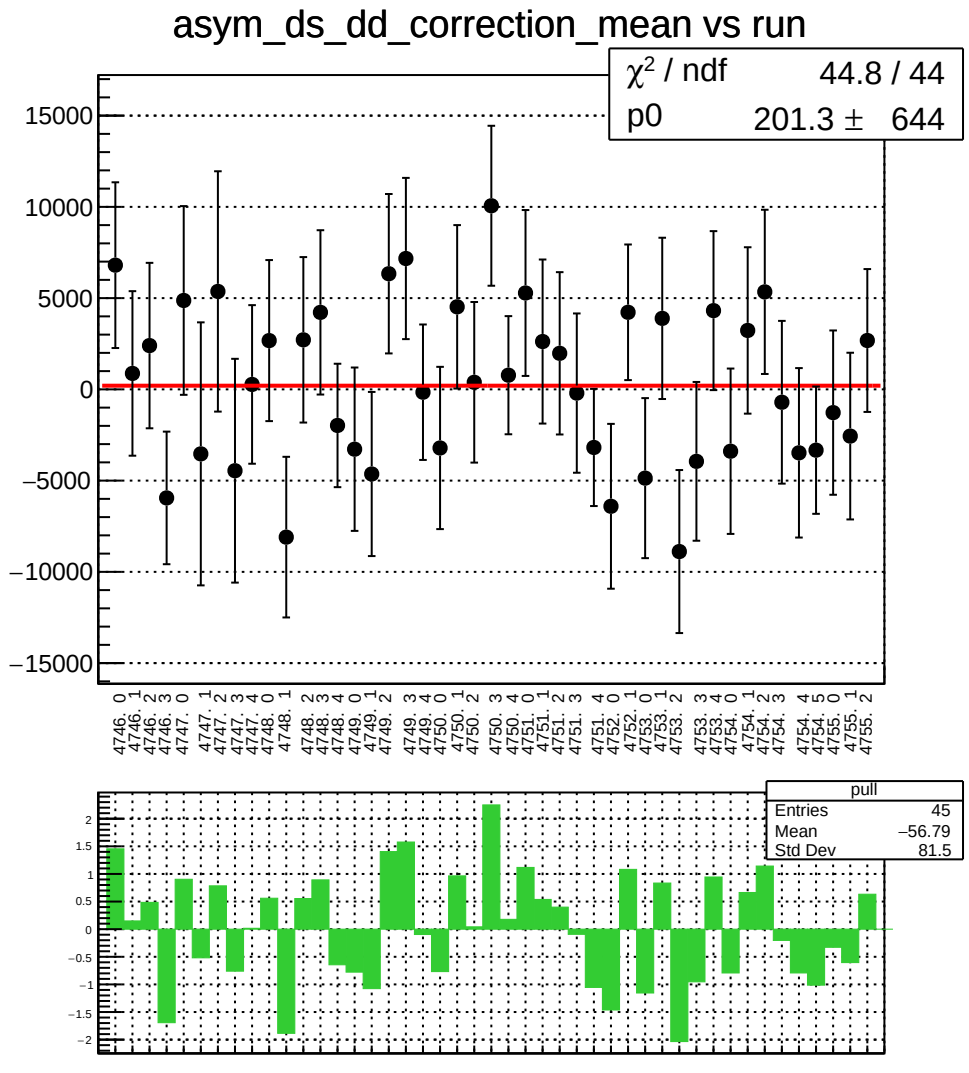

pull1D
Entries 45
Mean 0.0144
Std Dev 0.7534
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

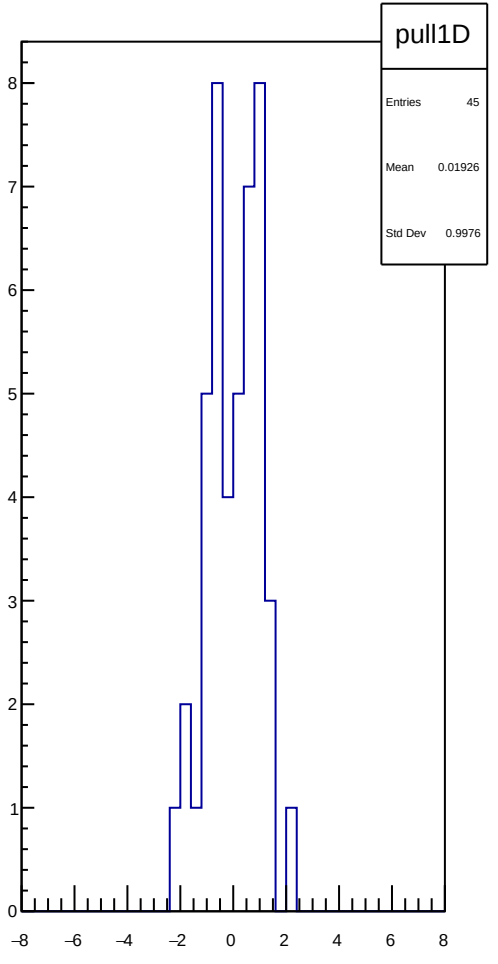

asym_ds_avg_rms vs run
χ² / ndf 3008 / 44
p0 272 ± 0.2838
320
310
300
290
280
270
260
250
240
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

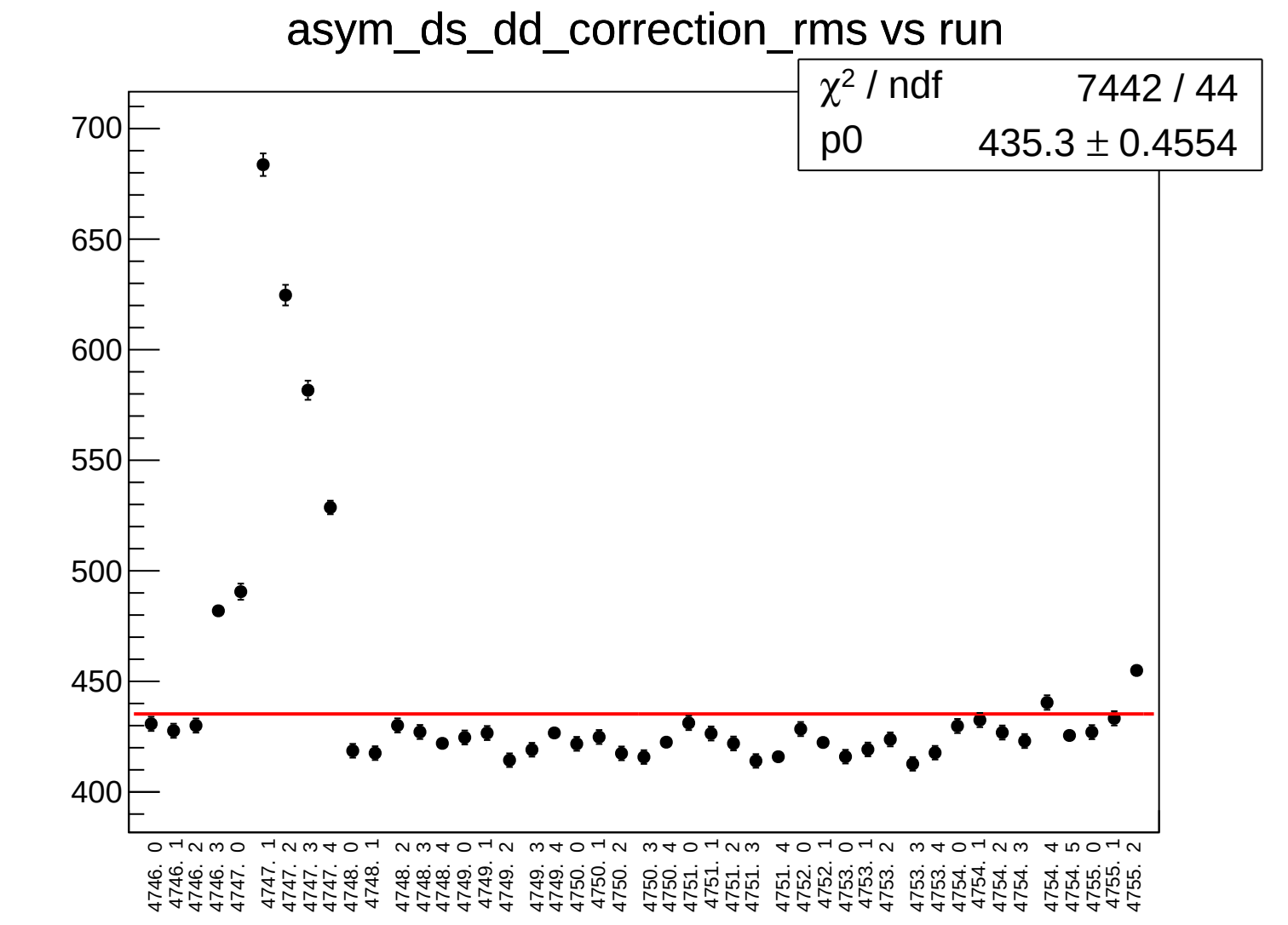

reg_asym_ds_dd_mean vs run
χ^2 / ndf 38.4 / 44
p0 118.7 ± 139.8
4000
3000
2000
1000
0
−1000
−2000
−3000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 41.46
Std Dev 38.7
2
1
0
−1
−2

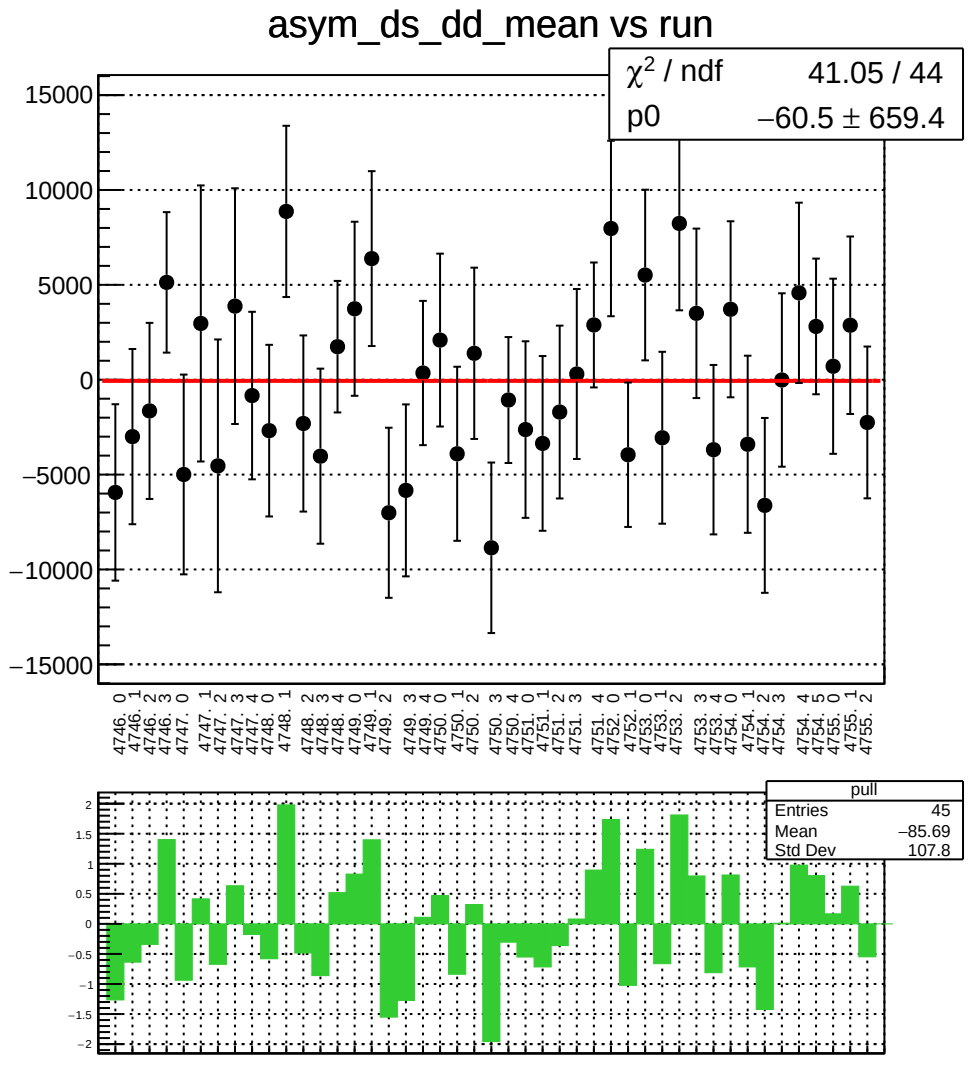

pull1D
Entries 45
Mean 0.03152
Std Dev 0.9232
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

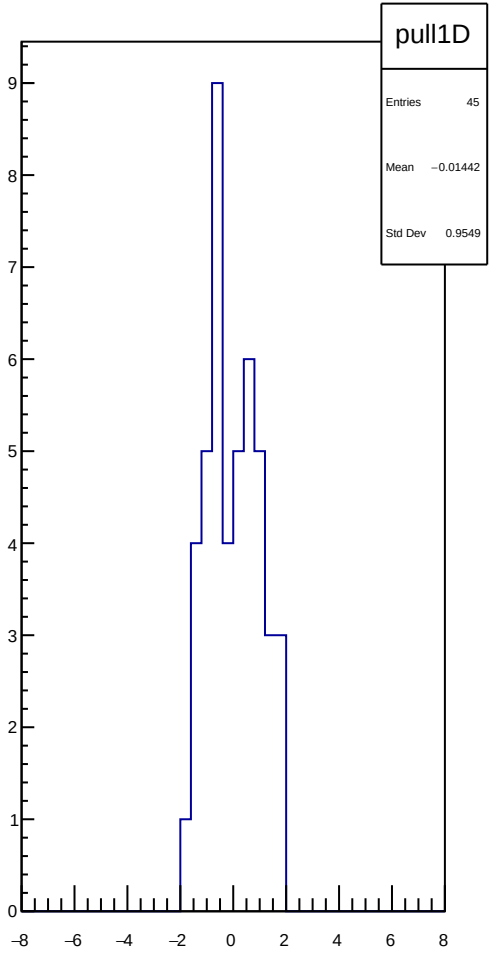

reg_asym_ds_dd_rms vs run
χ² / ndf 53.51 / 44
p0 94.85 ± 0.09883
97
96
95
94
93
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

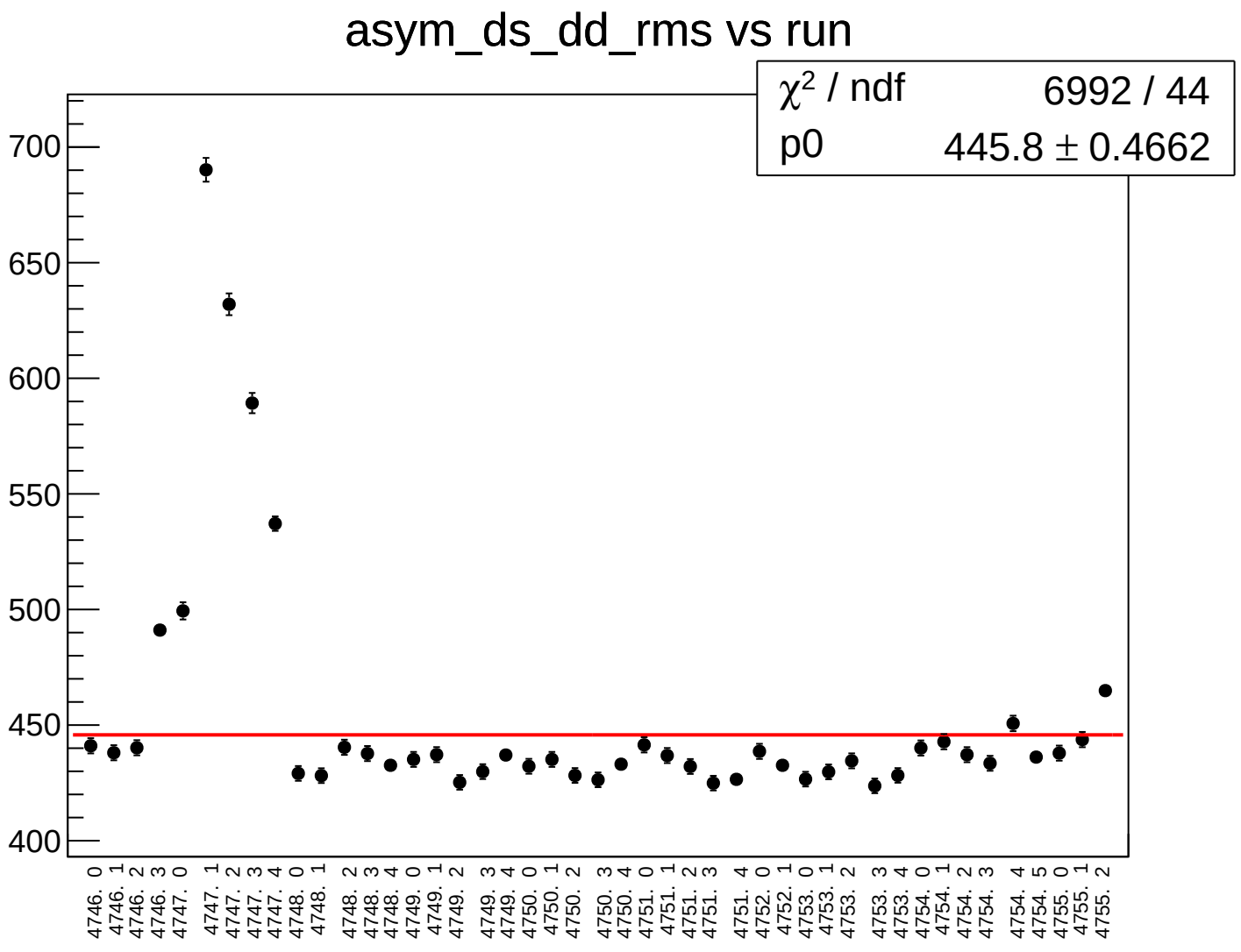

asym_ds_dd_correction_mean vs run
χ² / ndf 44.8 / 44
p0 201.3 ± 644
15000
10000
5000
0
−5000
−10000
−15000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −56.79
Std Dev 81.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

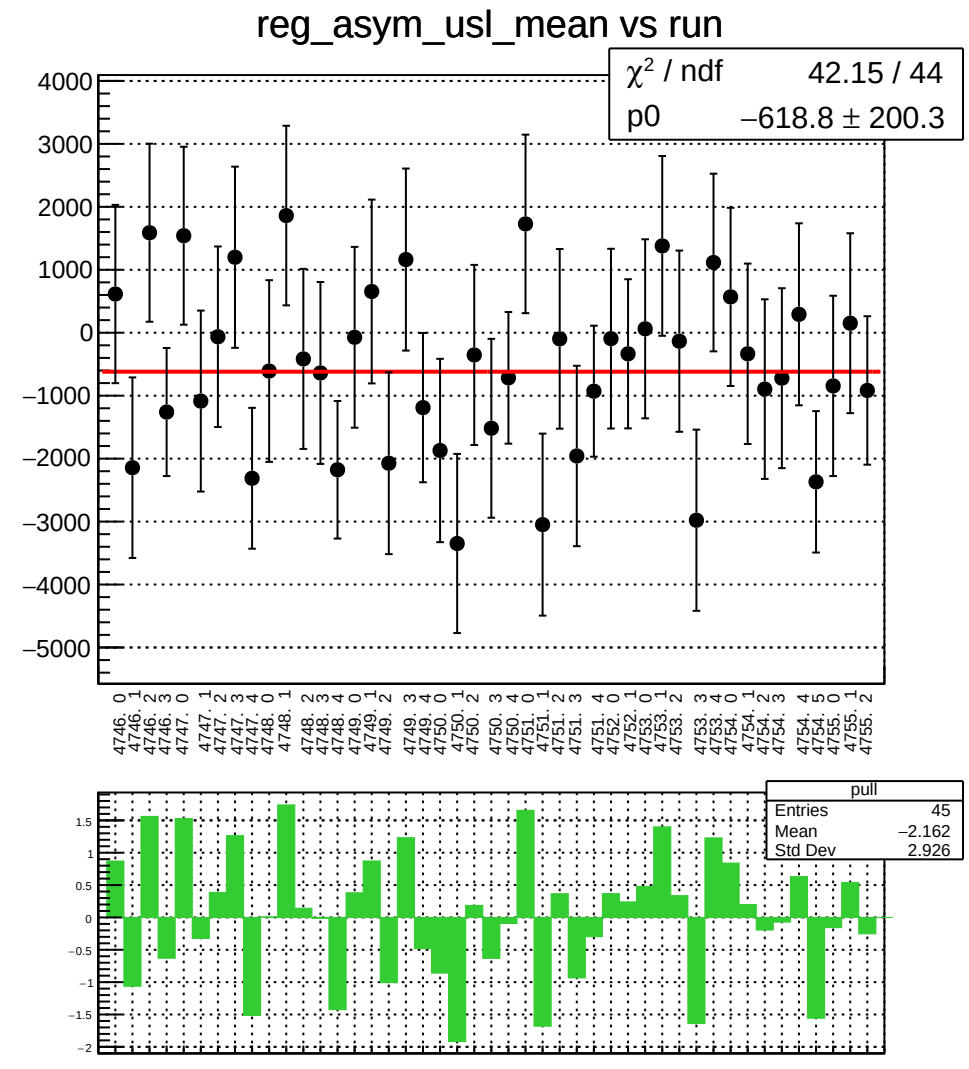

pull1D
Entries 45
Mean 0.01926
Std Dev 0.9976
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

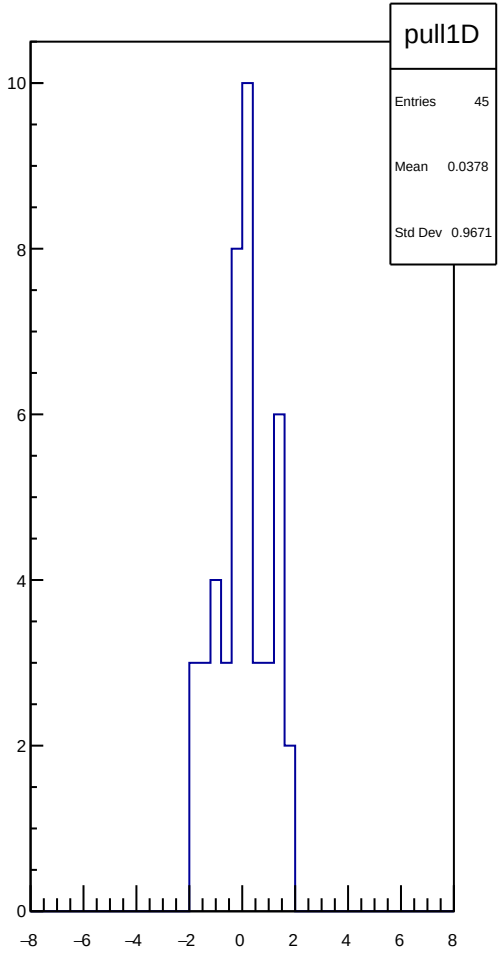

asym_ds_dd_correction_rms vs run
χ² / ndf 7442 / 44
p0 435.3 ± 0.4554
700
650
600
550
500
450
400
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

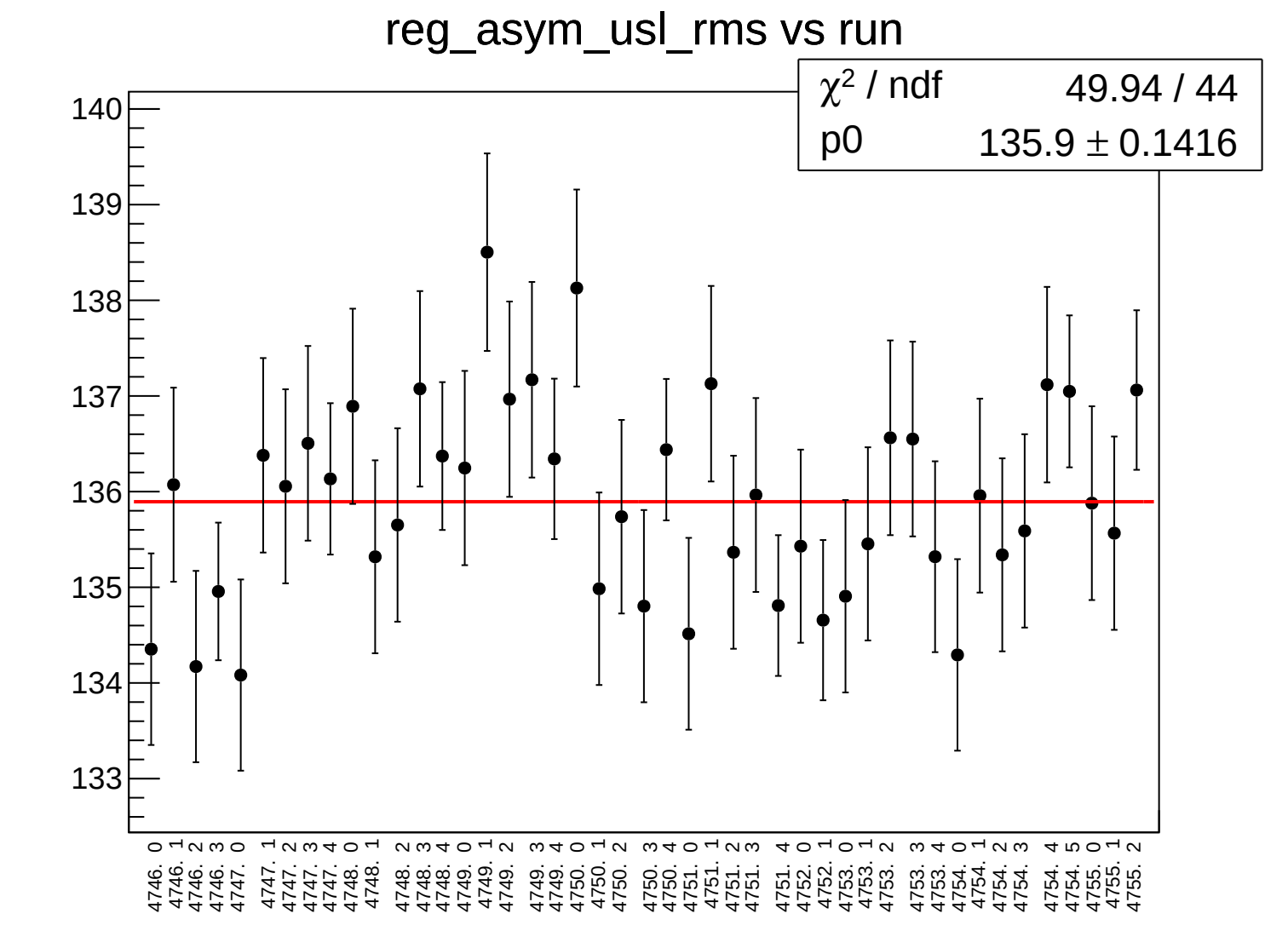

asym_ds_dd_mean vs run
χ² / ndf 41.05 / 44
p0 −60.5 ± 659.4
15000
10000
5000
0
−5000
−10000
−15000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −85.69
Std Dev 107.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

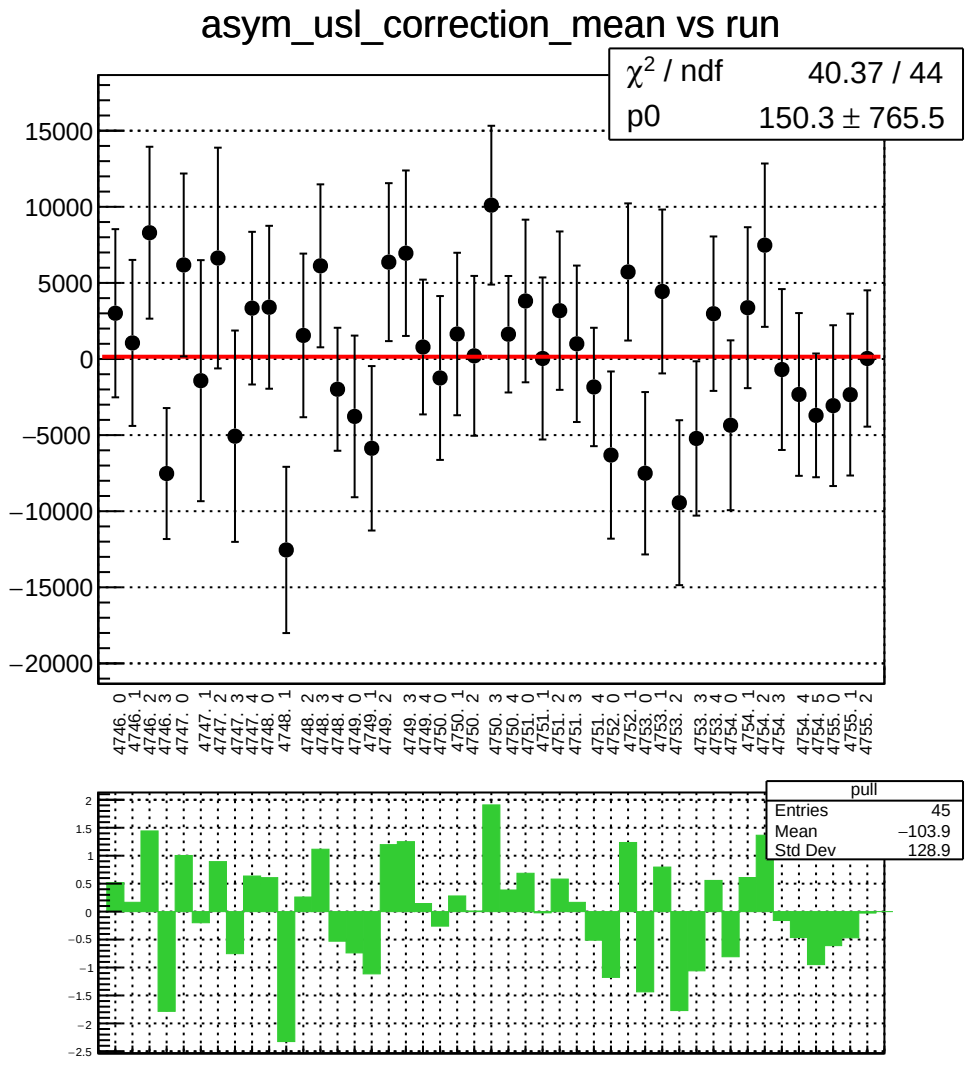

pull1D
Entries 45
Mean −0.01442
Std Dev 0.9549
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

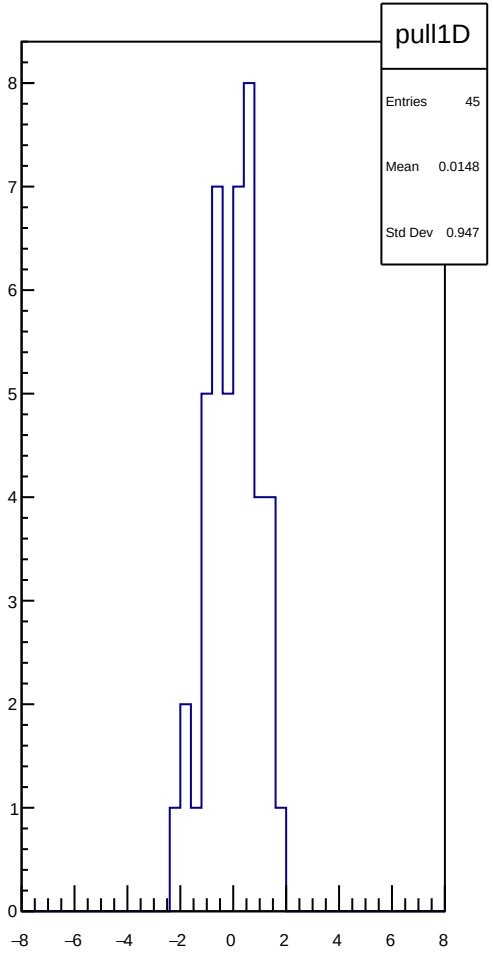

asym_ds_dd_rms vs run
χ² / ndf 6992 / 44
p0 445.8 ± 0.4662
700
650
600
550
500
450
400
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

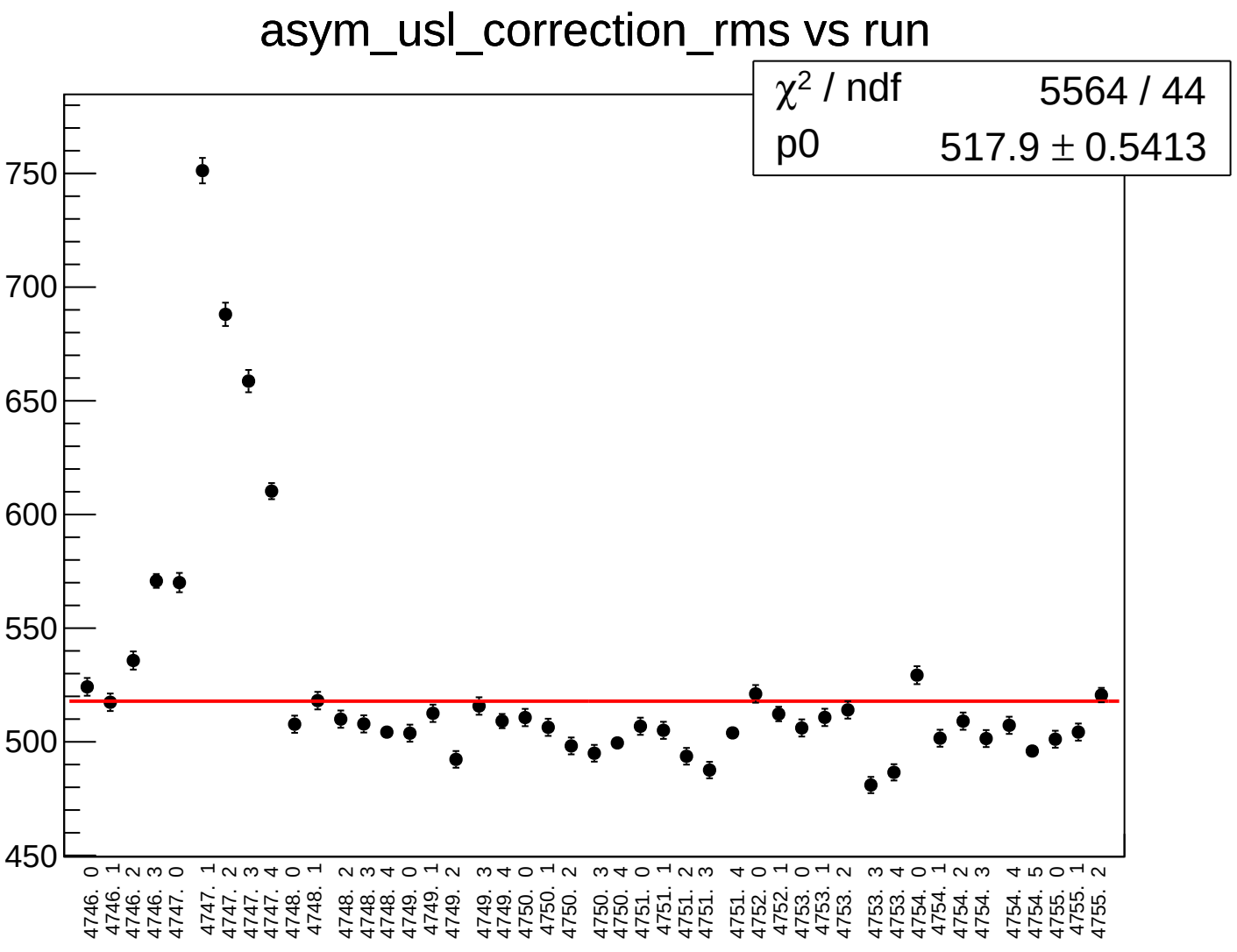

reg_asym_usl_mean vs run
χ² / ndf 42.15 / 44
p0 −618.8 ± 200.3
pull
Entries 45
Mean −2.162
Std Dev 2.926

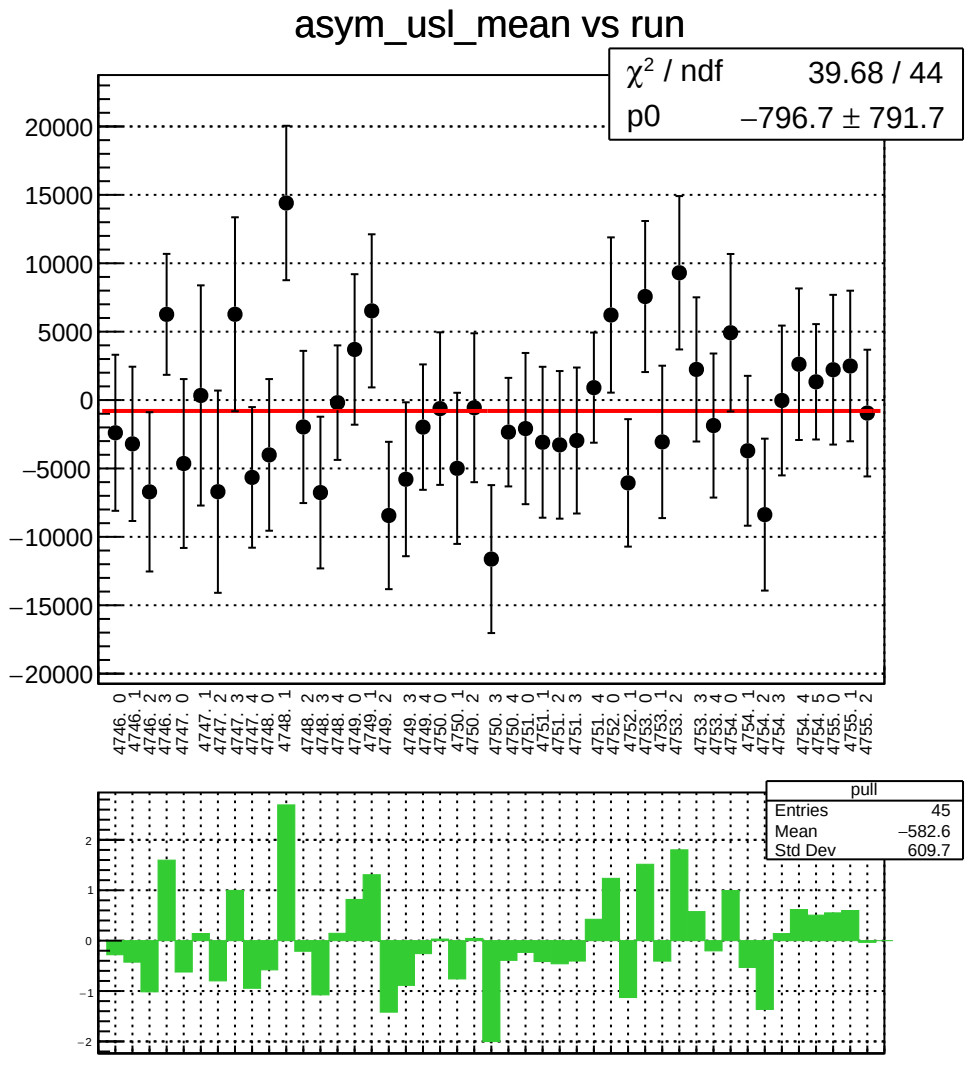

pull1D
Entries 45
Mean 0.0378
Std Dev 0.9671

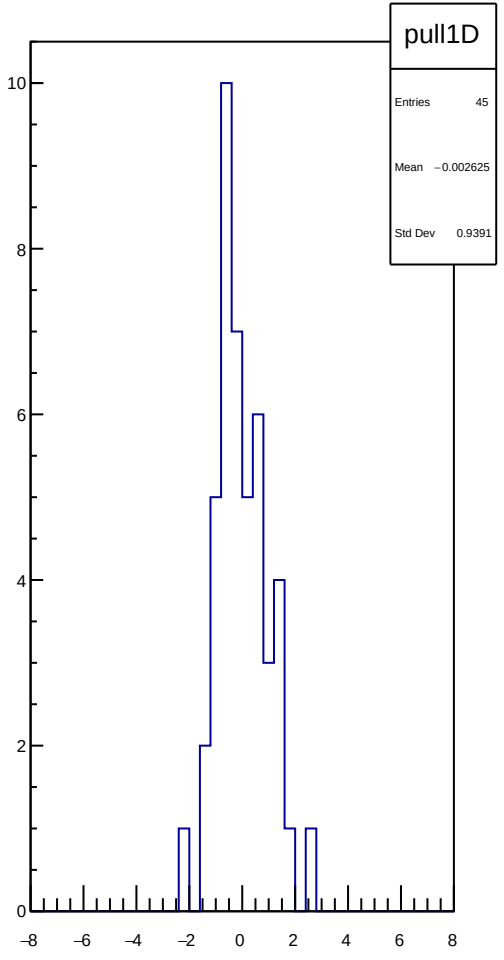

reg_asym_usl_rms vs run
χ² / ndf 49.94 / 44
p0 135.9 ± 0.1416
140
139
138
137
136
135
134
133
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

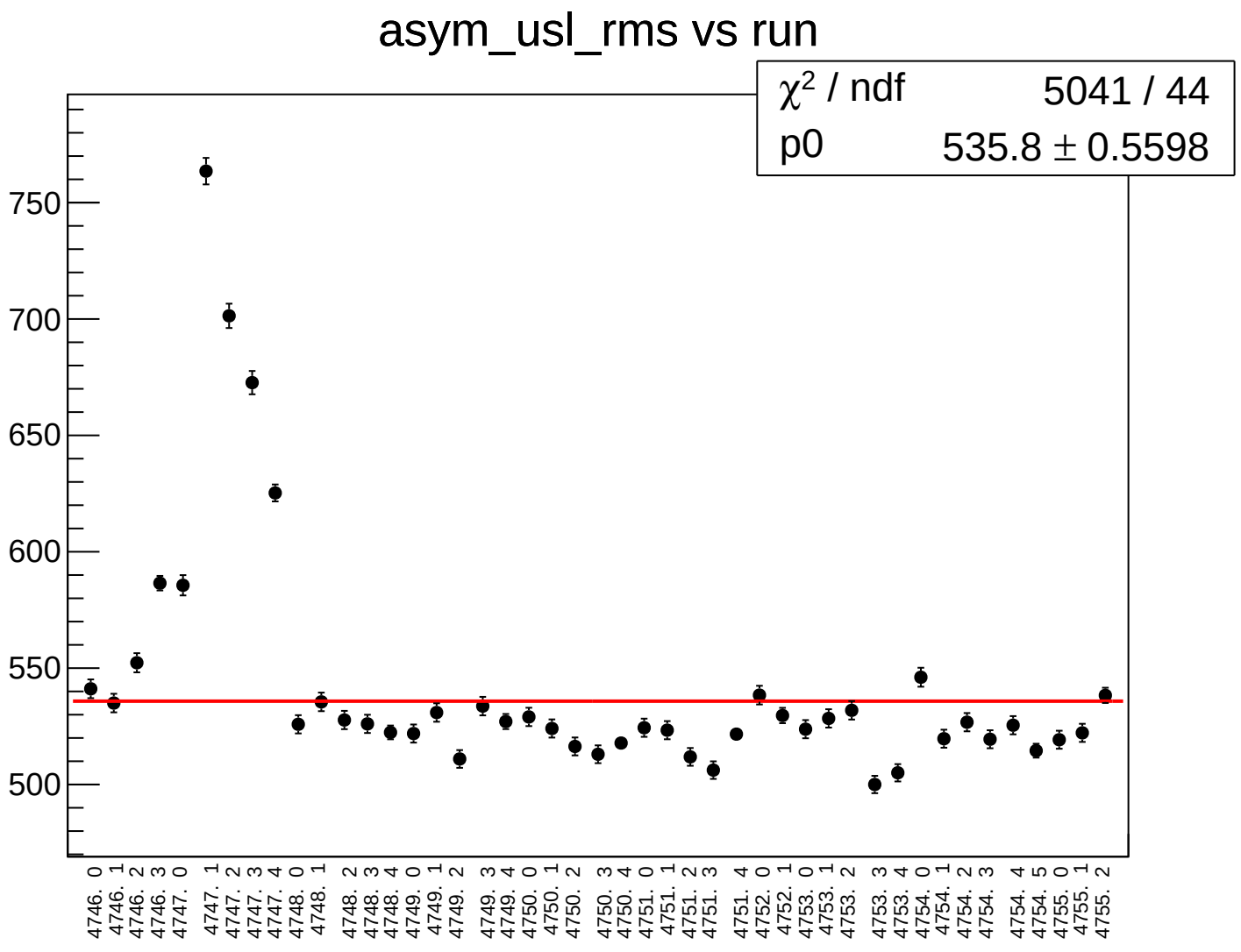

asym_usl_correction_mean vs run
χ² / ndf 40.37 / 44
p0 150.3 ± 765.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −103.9
Std Dev 128.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

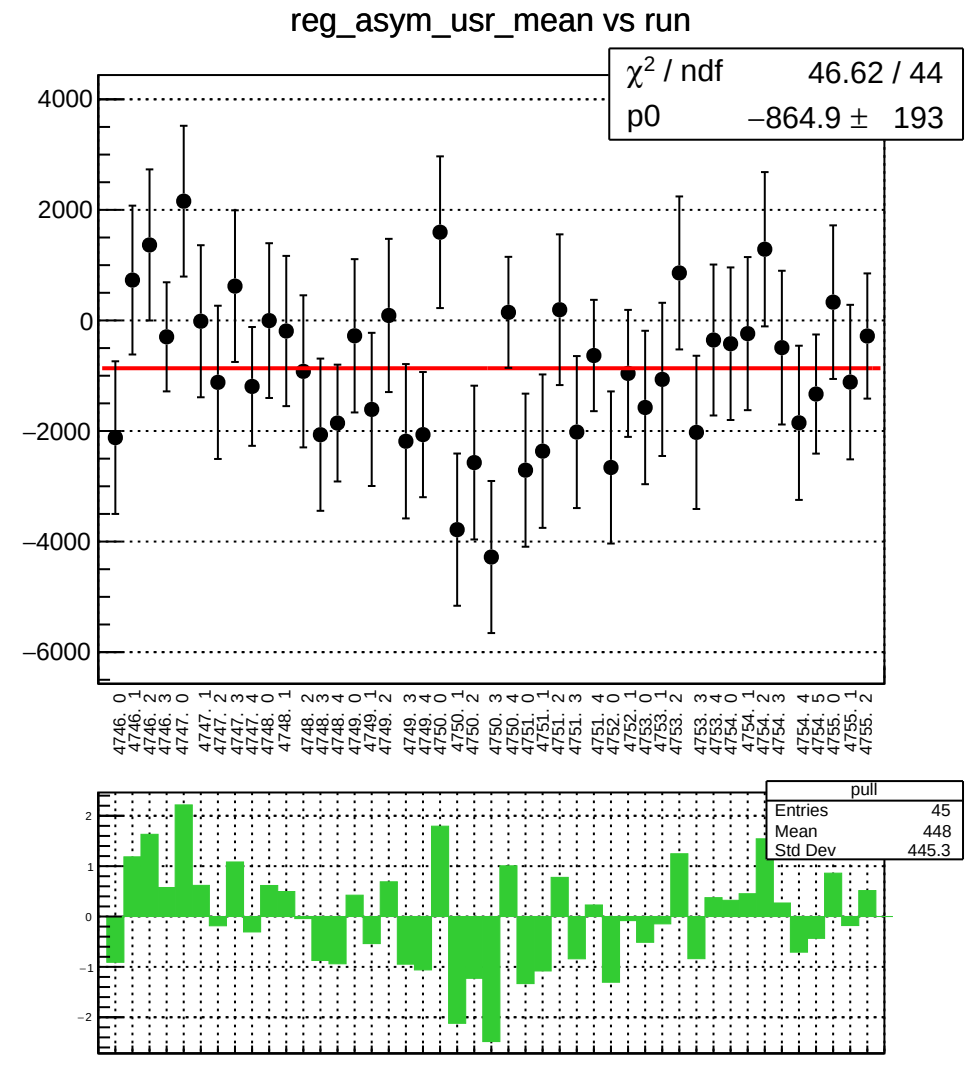

pull1D
Entries 45
Mean 0.0148
Std Dev 0.947
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

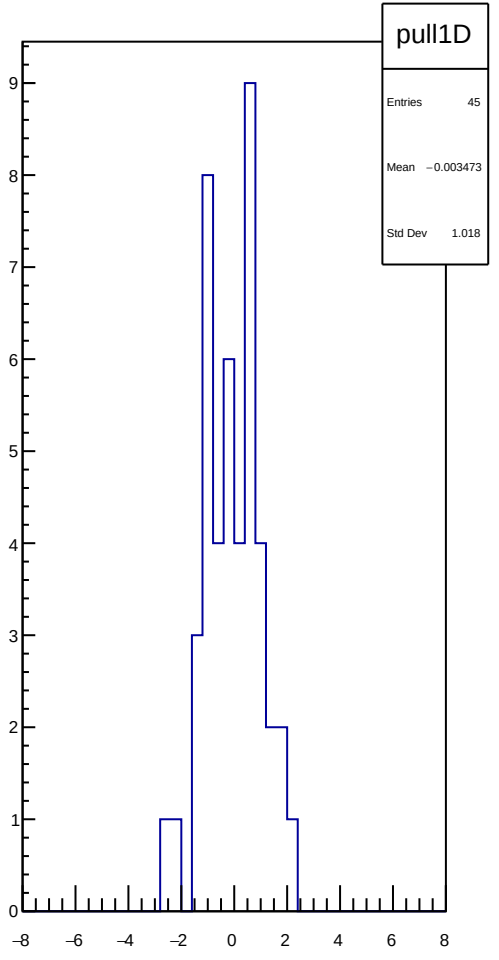

asym_usl_correction_rms vs run
χ² / ndf 5564 / 44
p0 517.9 ± 0.5413
750
700
650
600
550
500
450
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

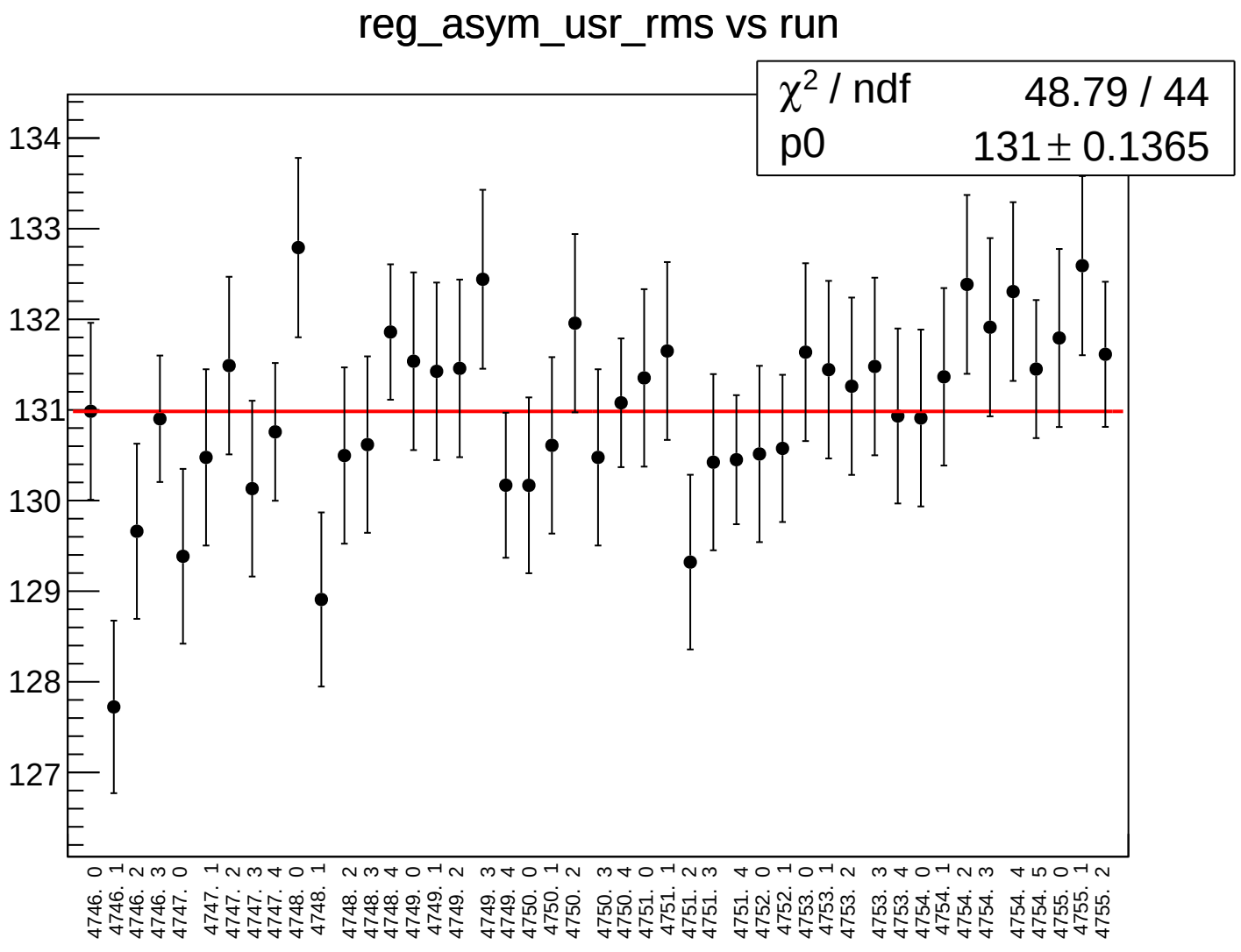

asym_usl_mean vs run
χ² / ndf 39.68 / 44
p0 −796.7 ± 791.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −582.6
Std Dev 609.7
2
1
0
−1
−2

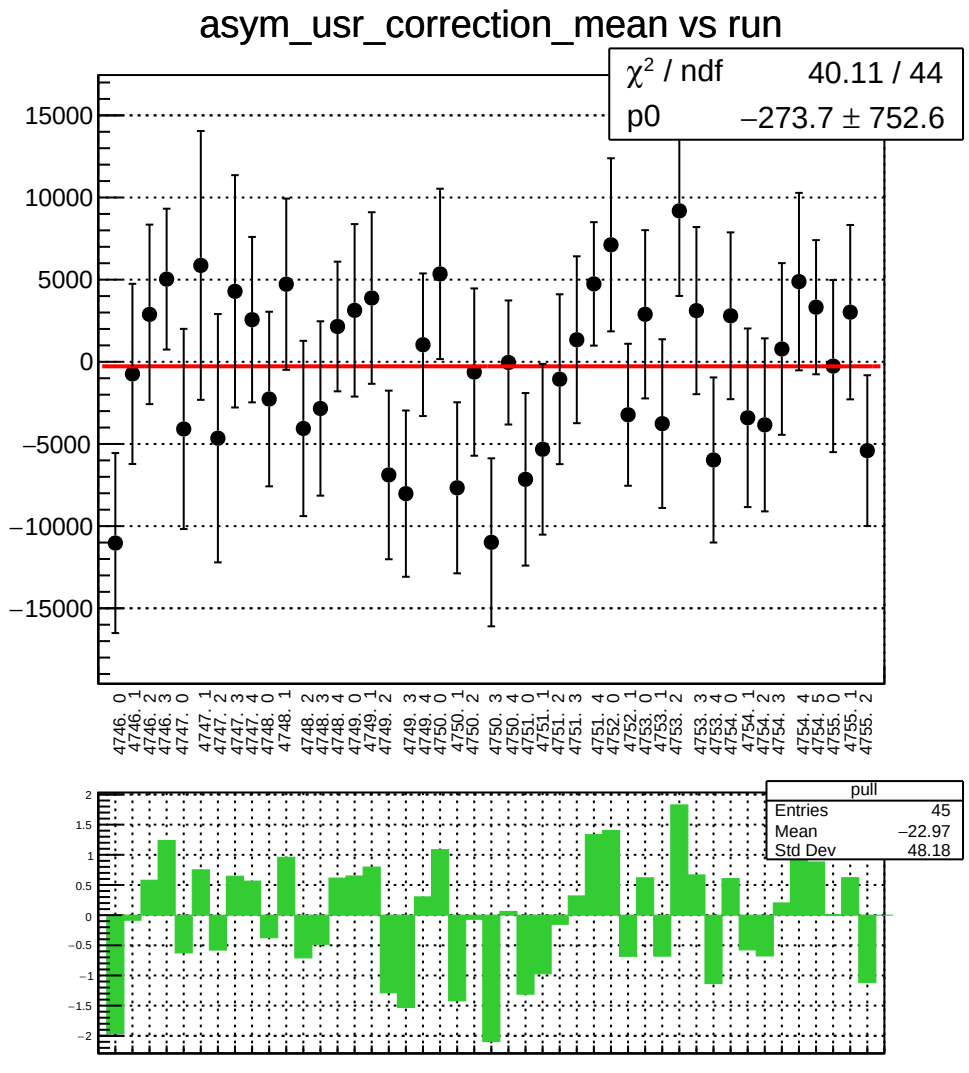

pull1D
Entries 45
Mean −0.002625
Std Dev 0.9391
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

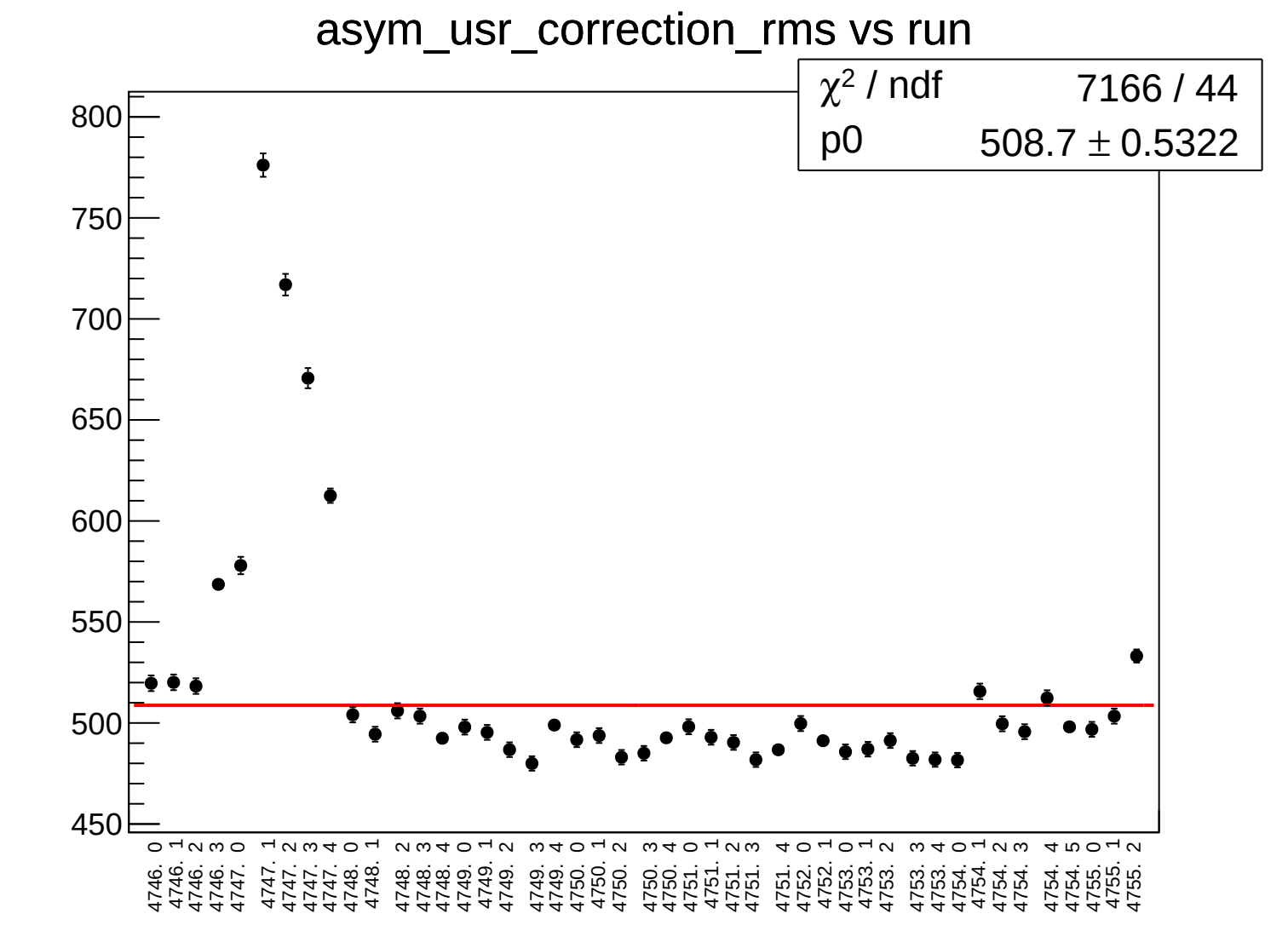

asym_usl_rms vs run
χ² / ndf 5041 / 44
p0 535.8 ± 0.5598
750
700
650
600
550
500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

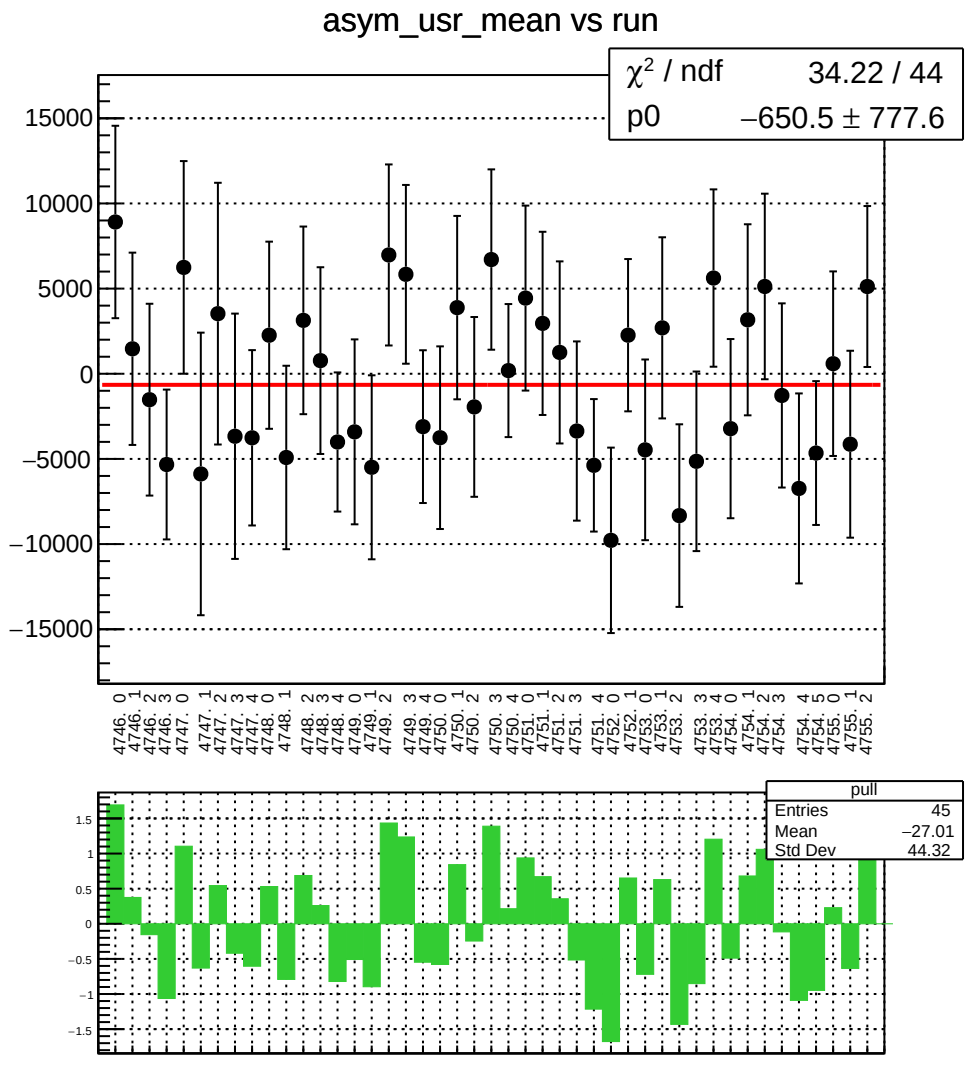

reg_asym_usr_mean vs run
χ² / ndf 46.62 / 44
p0 −864.9 ± 193
4000
2000
0
−2000
−4000
−6000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 448
Std Dev 445.3
2
1
0
−1
−2

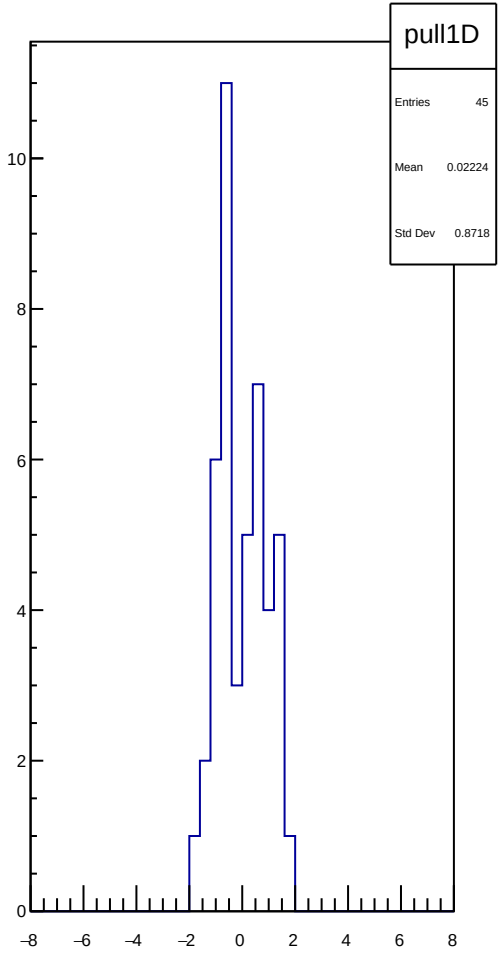

pull1D
Entries 45
Mean −0.003473
Std Dev 1.018
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

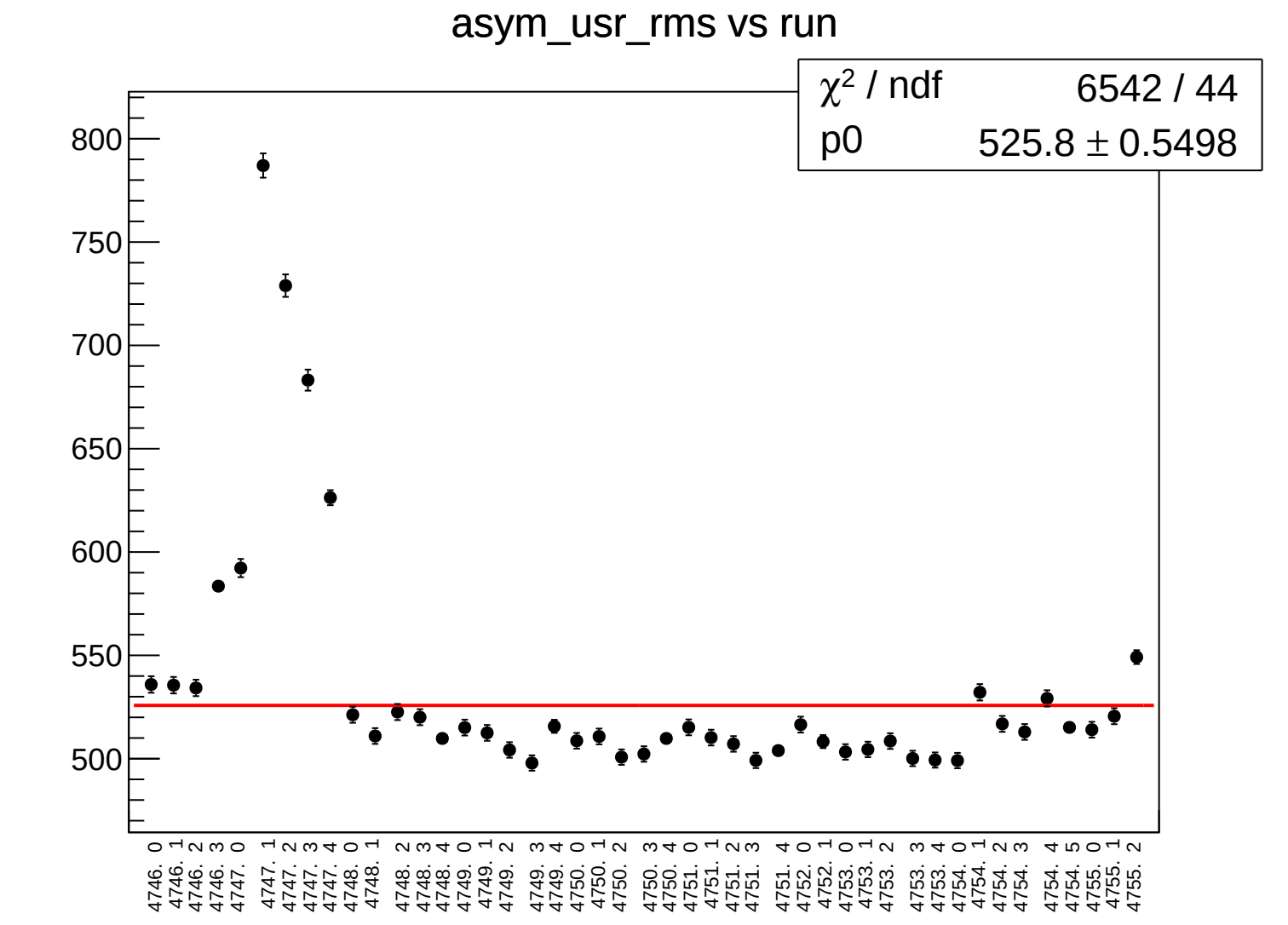

reg_asym_usr_rms vs run
χ² / ndf 48.79 / 44
p0 131 ± 0.1365
134
133
132
131
130
129
128
127
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

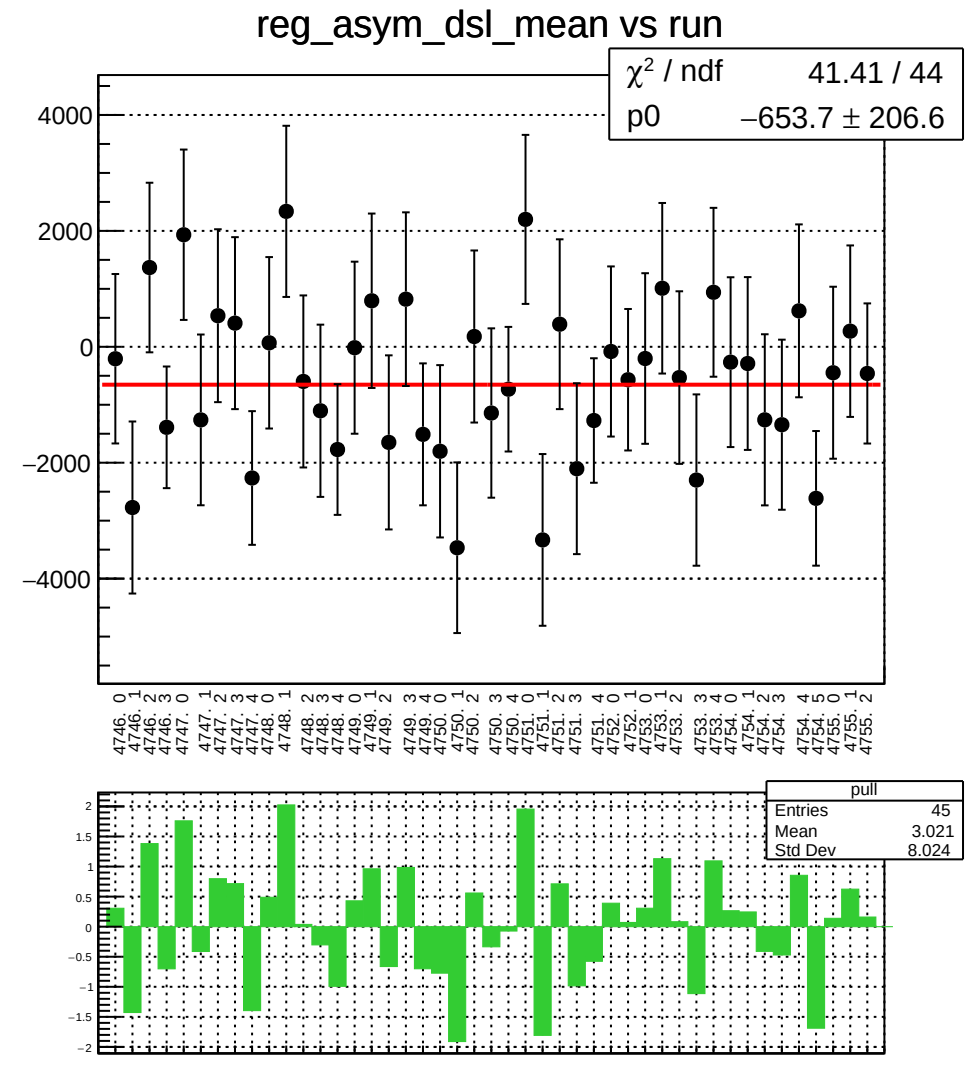

asym_usr_correction_mean vs run
χ² / ndf 40.11 / 44
p0 −273.7 ± 752.6
15000
10000
5000
0
−5000
−10000
−15000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −22.97
Std Dev 48.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.0188
Std Dev 0.944
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

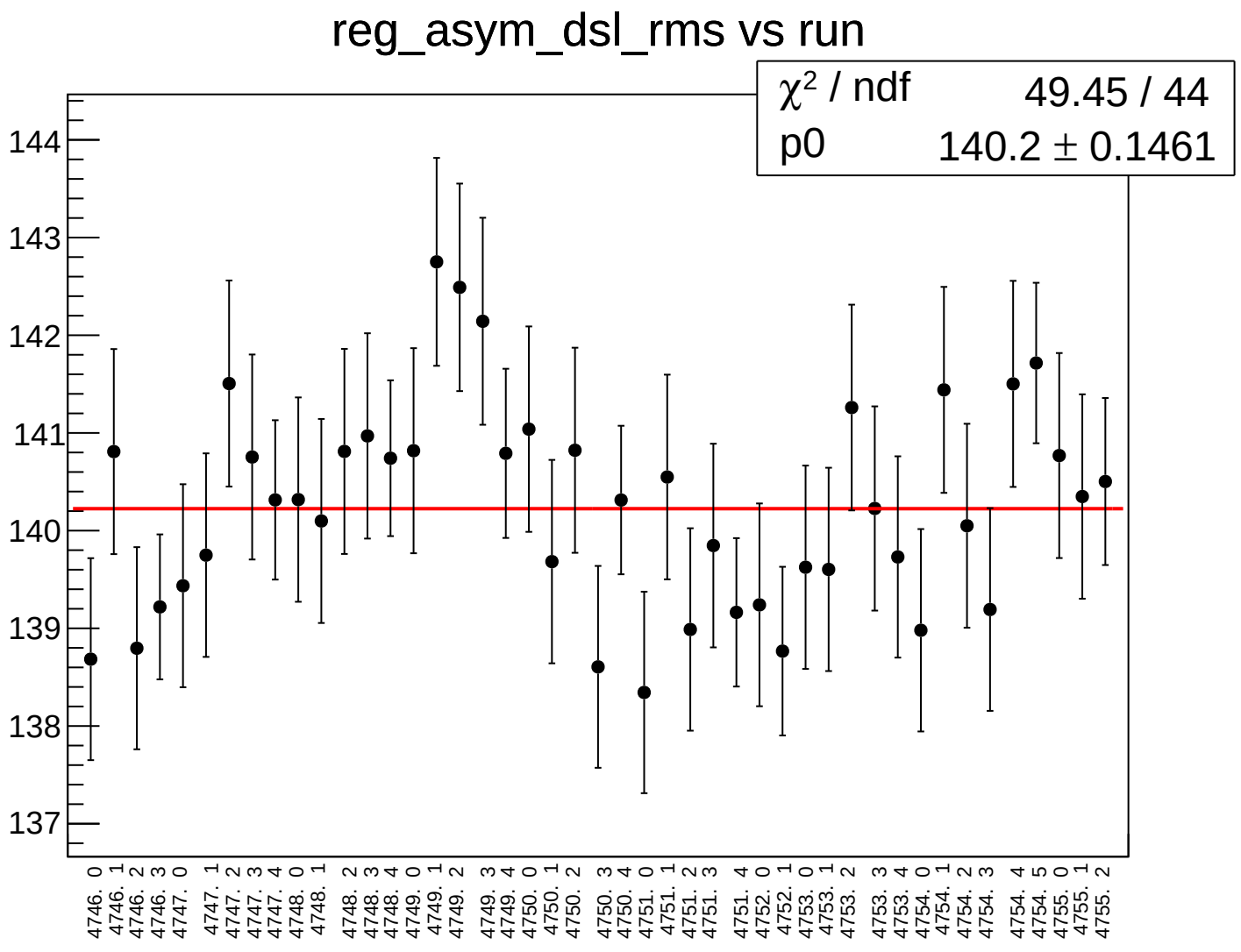

asym_usr_correction_rms vs run
χ² / ndf 7166 / 44
p0 508.7 ± 0.5322
800
750
700
650
600
550
500
450
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

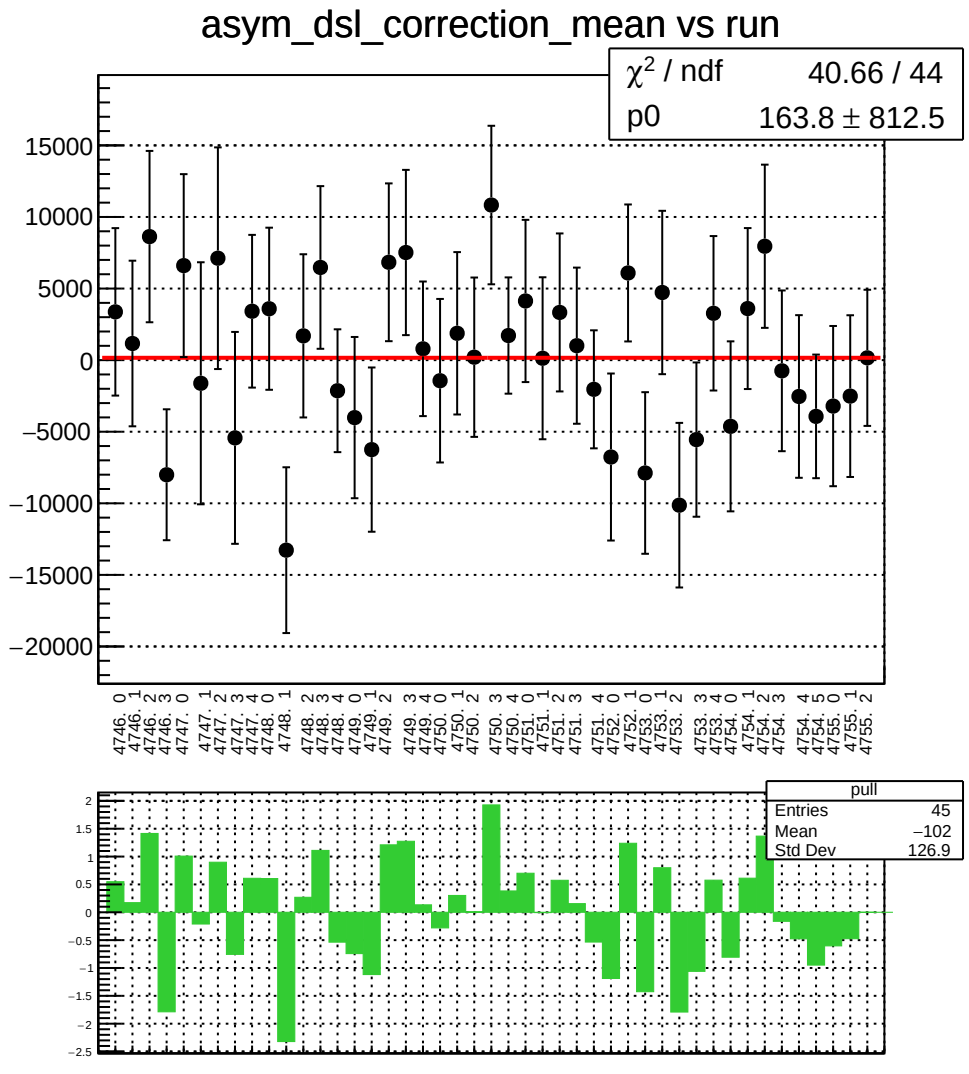

asym_usr_mean vs run
χ² / ndf 34.22 / 44
p0 −650.5 ± 777.6
15000
10000
5000
0
−5000
−10000
−15000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −27.01
Std Dev 44.32
1.5
1
0.5
0
−0.5
−1
−1.5

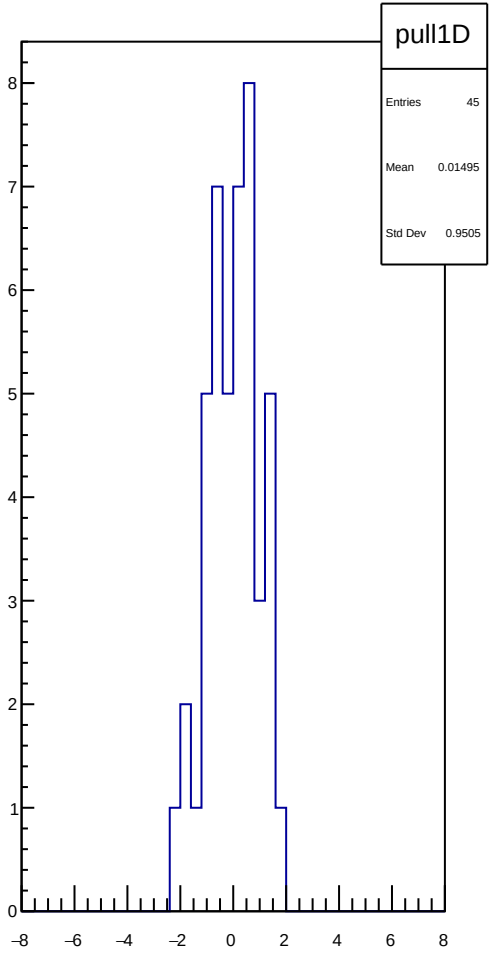

pull1D
Entries 45
Mean 0.02224
Std Dev 0.8718
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

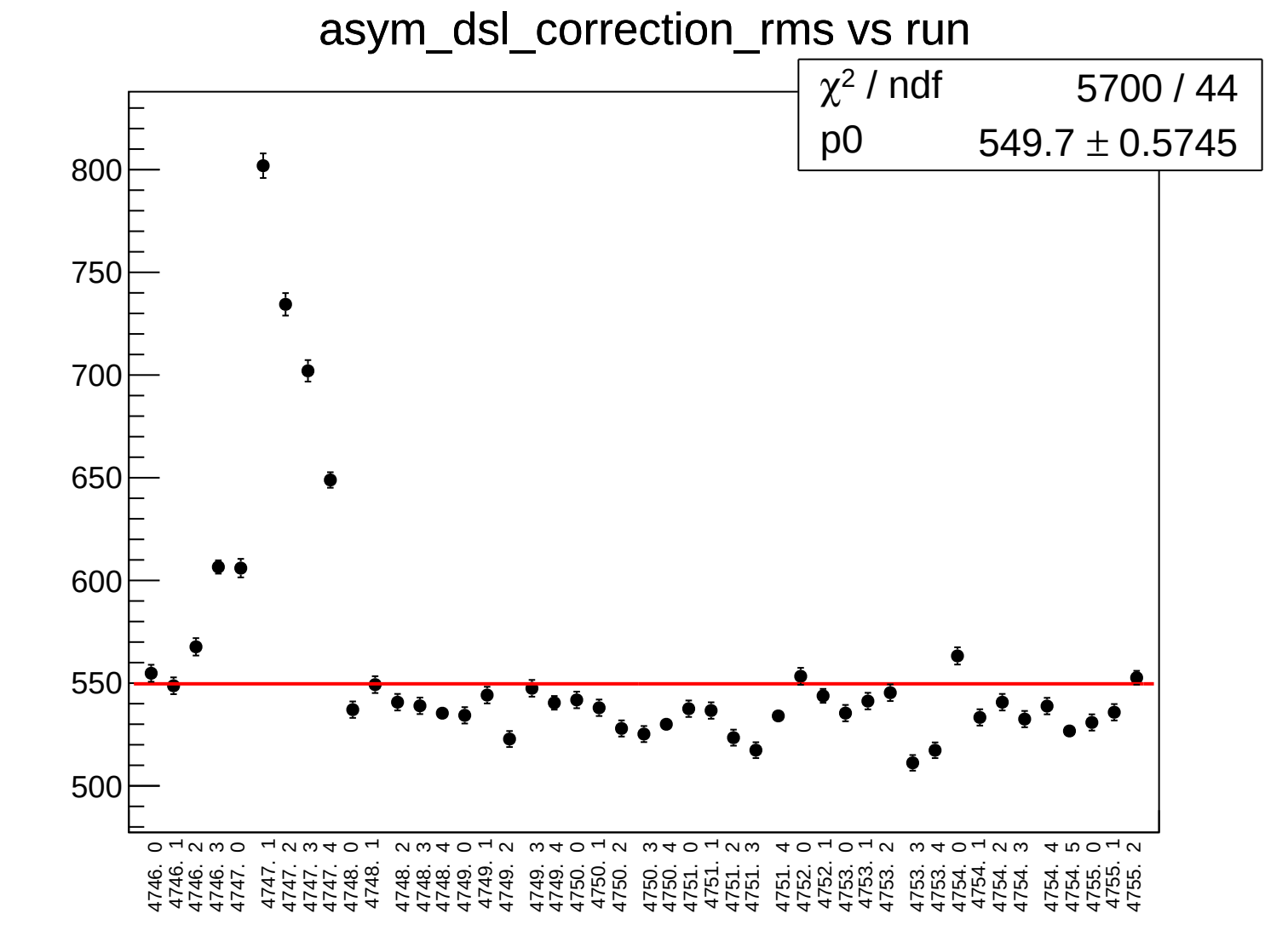

asym_usr_rms vs run
χ² / ndf 6542 / 44
p0 525.8 ± 0.5498
800
750
700
650
600
550
500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

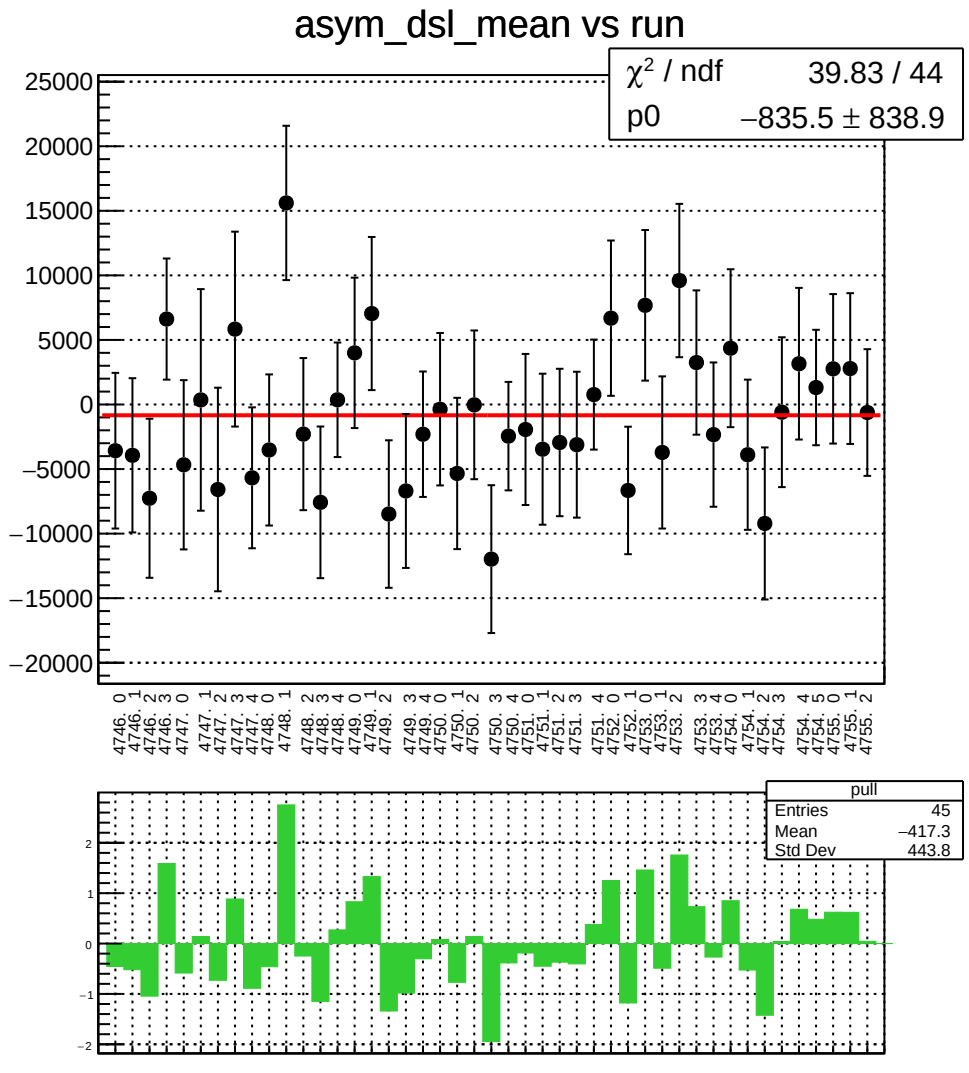

reg_asym_dsl_mean vs run
χ^2 / ndf 41.41 / 44
p0 −653.7 ± 206.6
4000
2000
0
−2000
−4000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 3.021
Std Dev 8.024
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.03878
Std Dev 0.9585
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

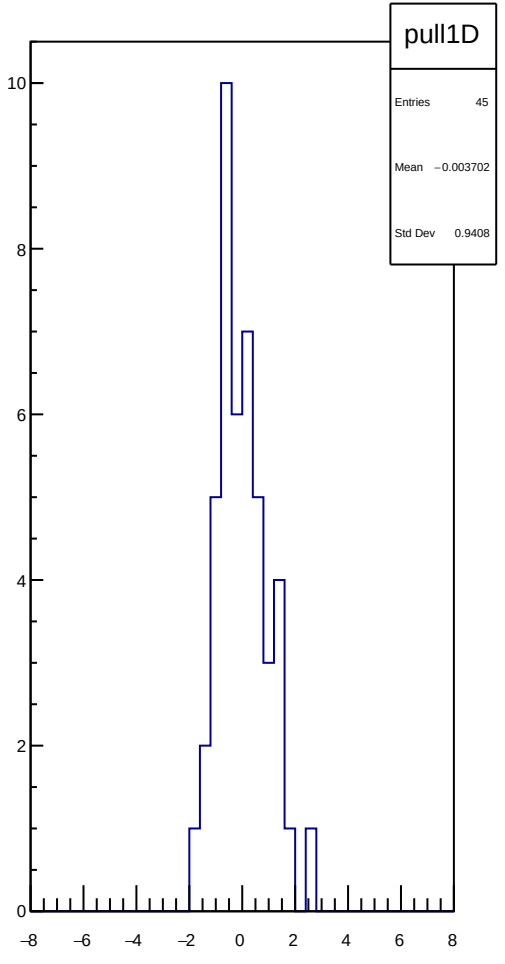

reg_asym_dsl_rms vs run
χ² / ndf 49.45 / 44
p0 140.2 ± 0.1461
144
143
142
141
140
139
138
137
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

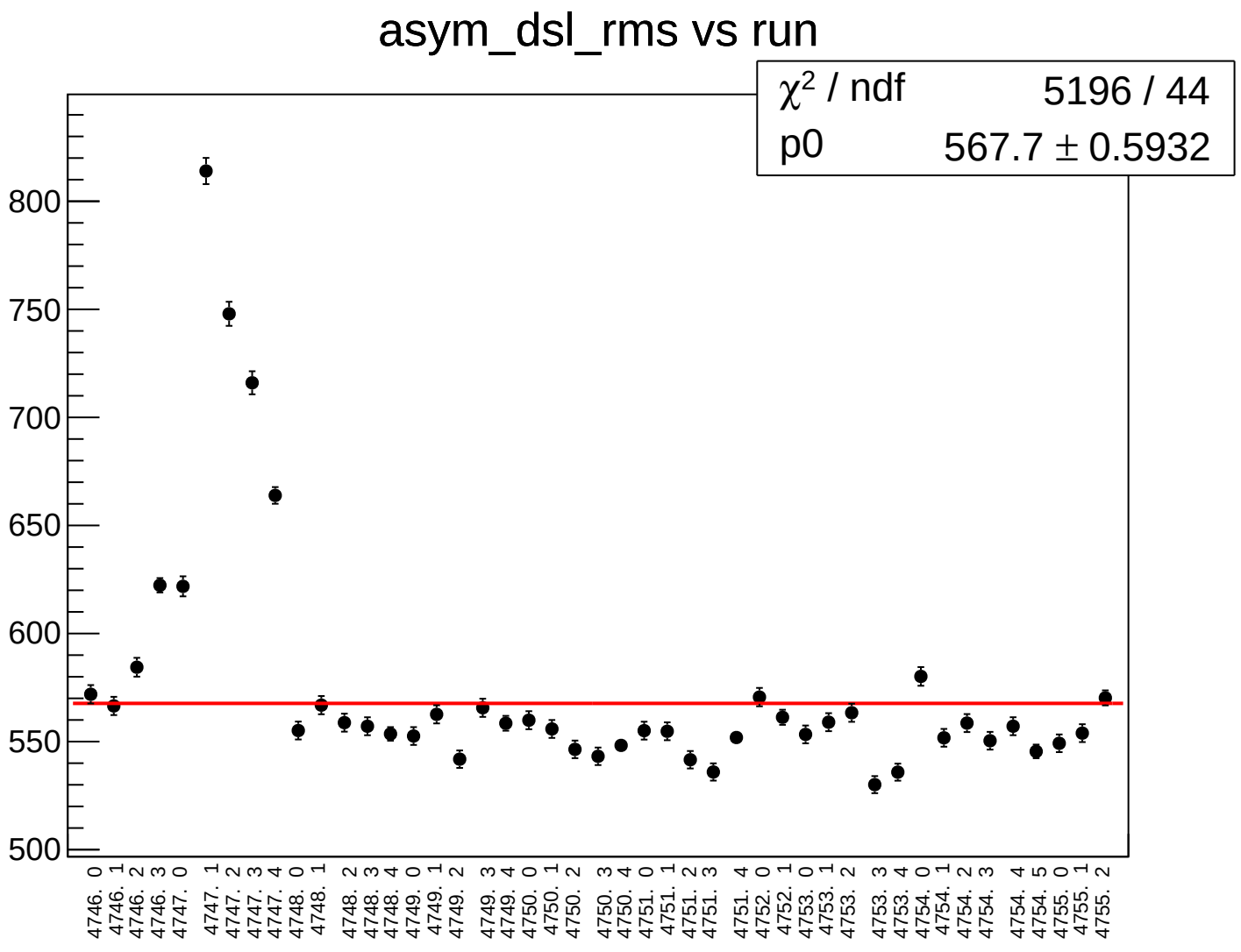

asym_dsl_correction_mean vs run
χ² / ndf 40.66 / 44
p0 163.8 ± 812.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −102
Std Dev 126.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

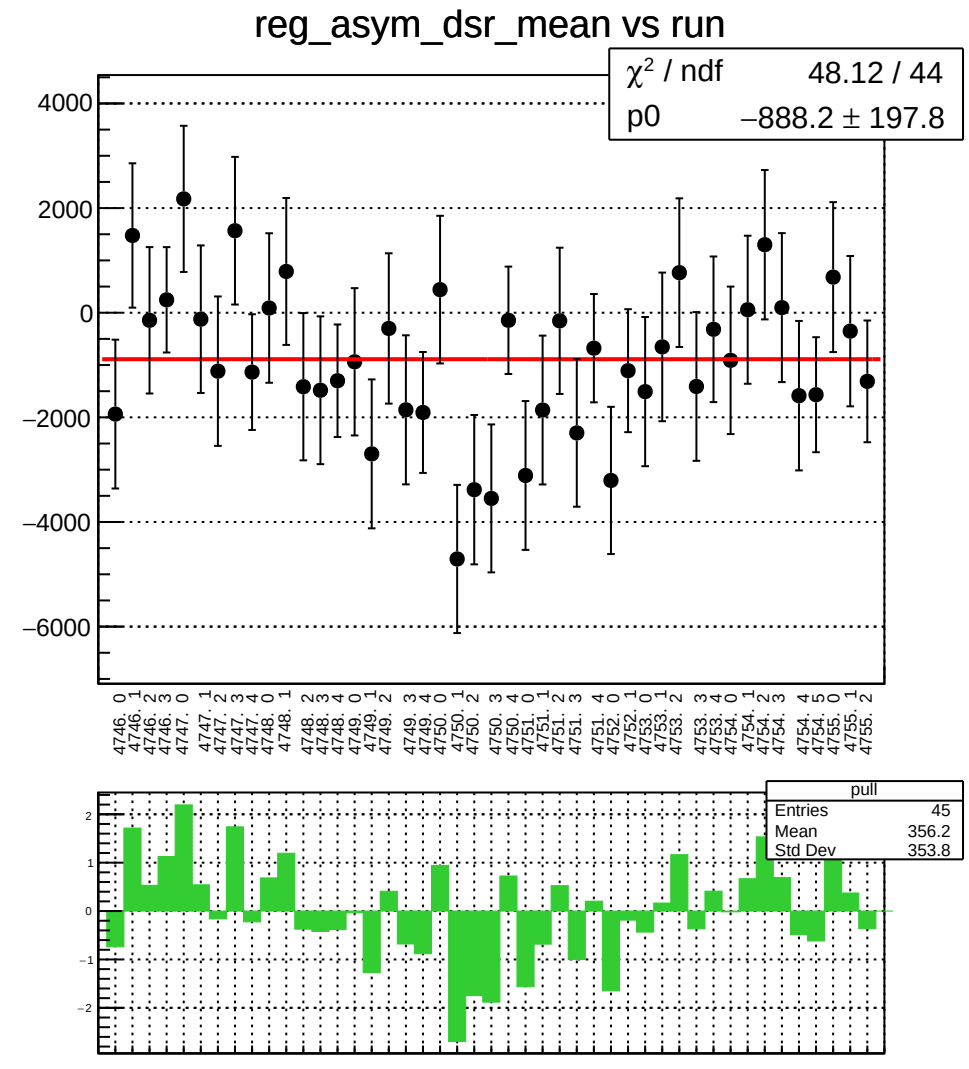

pull1D
Entries 45
Mean 0.01495
Std Dev 0.9505
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

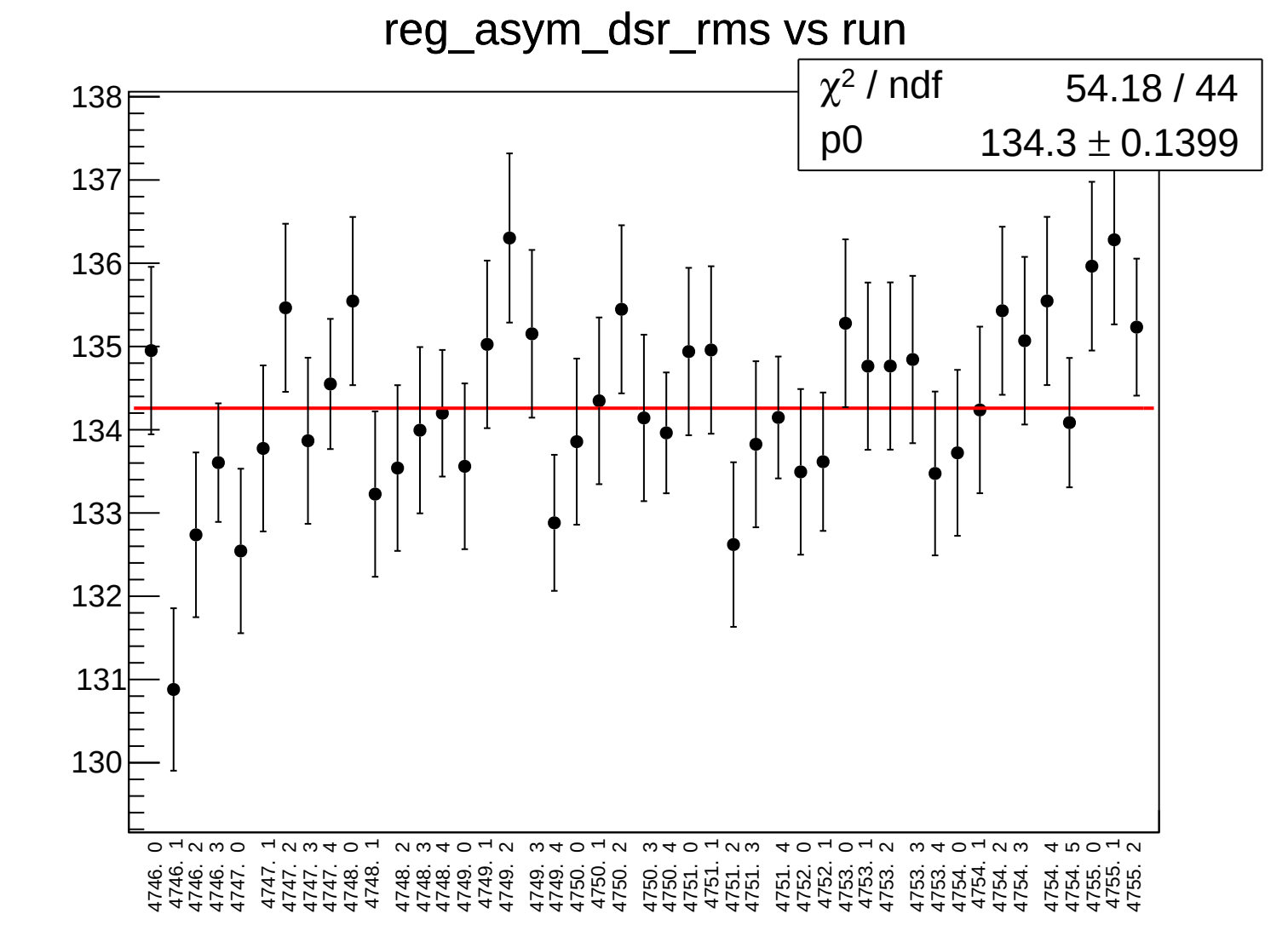

asym_dsl_correction_rms vs run
χ² / ndf 5700 / 44
p0 549.7 ± 0.5745
800
750
700
650
600
550
500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

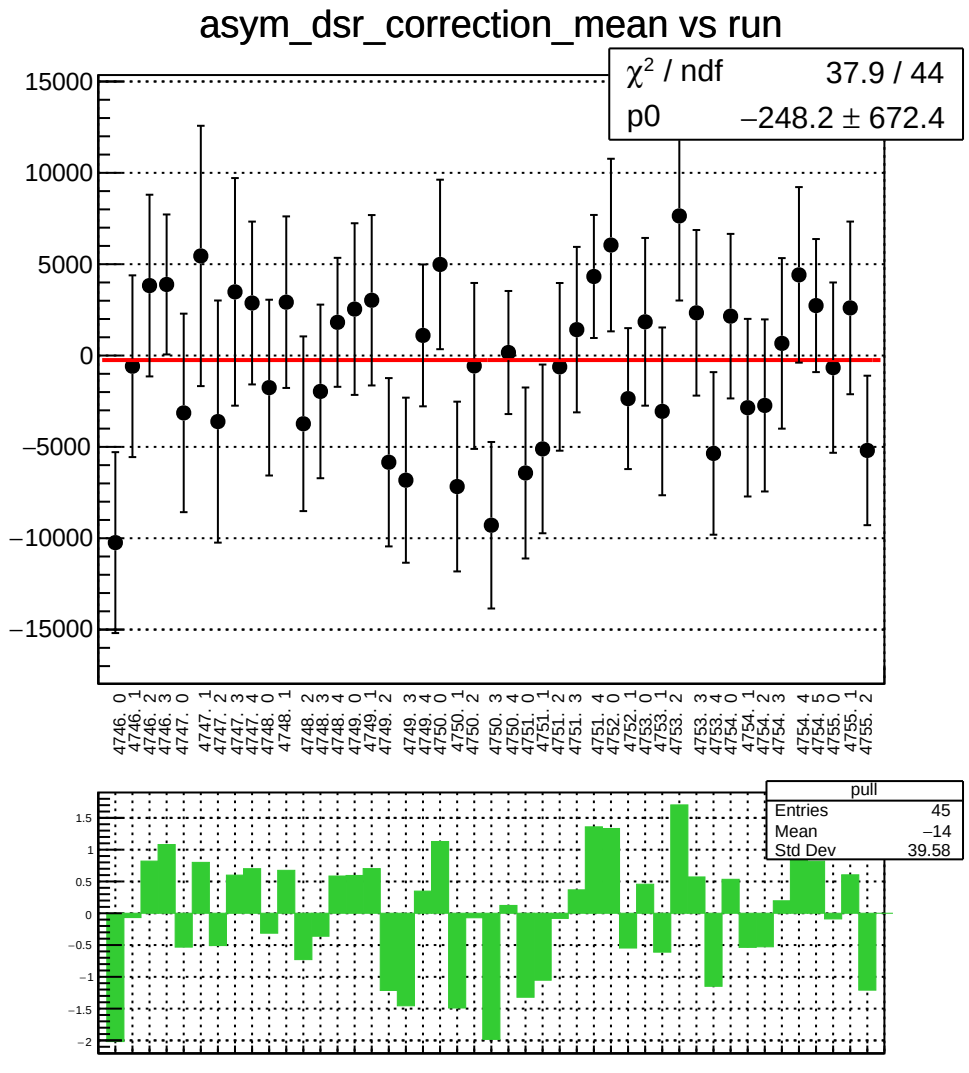

asym_dsl_mean vs run
χ² / ndf 39.83 / 44
p0 −835.5 ± 838.9
pull
Entries 45
Mean −417.3
Std Dev 443.8

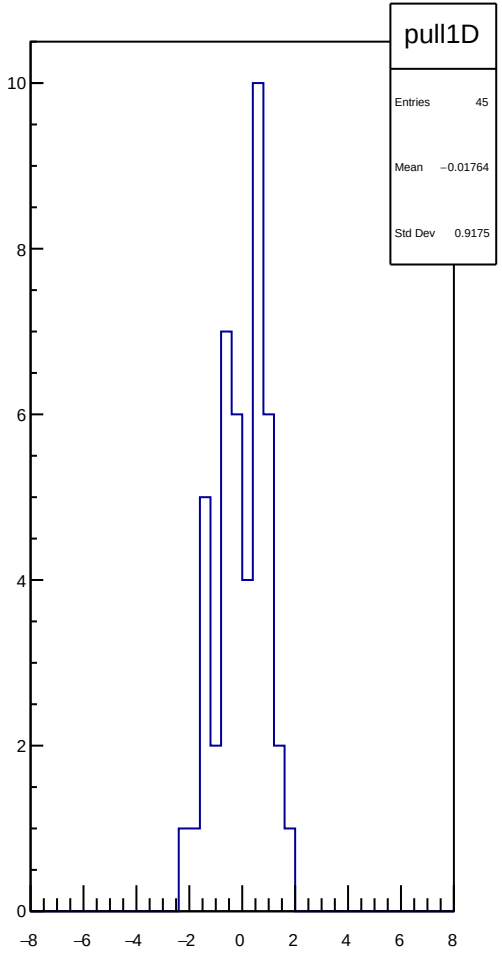

pull1D
Entries 45
Mean −0.003702
Std Dev 0.9408

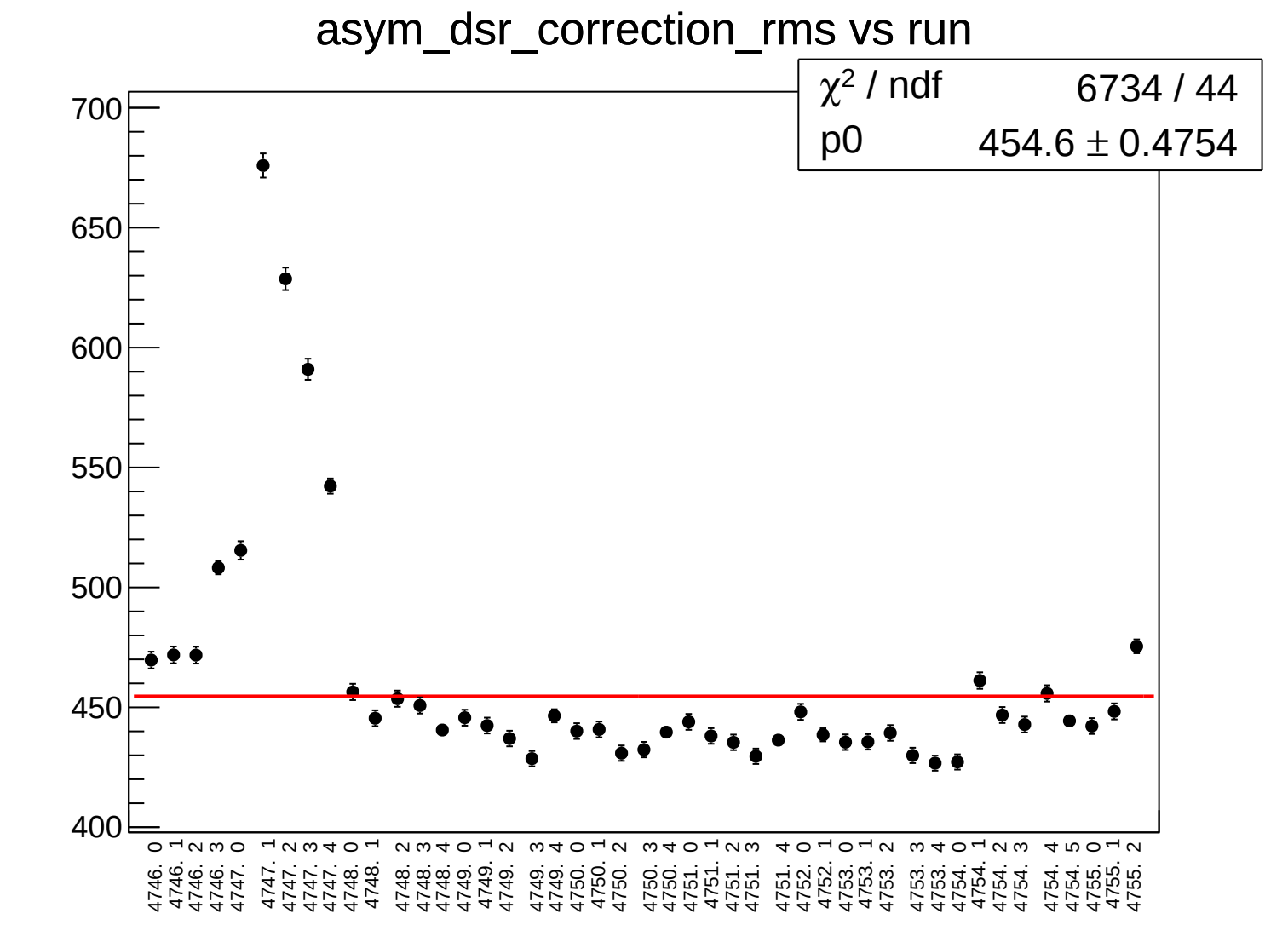

asym_dsl_rms vs run
χ² / ndf 5196 / 44
p0 567.7 ± 0.5932
800
750
700
650
600
550
500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

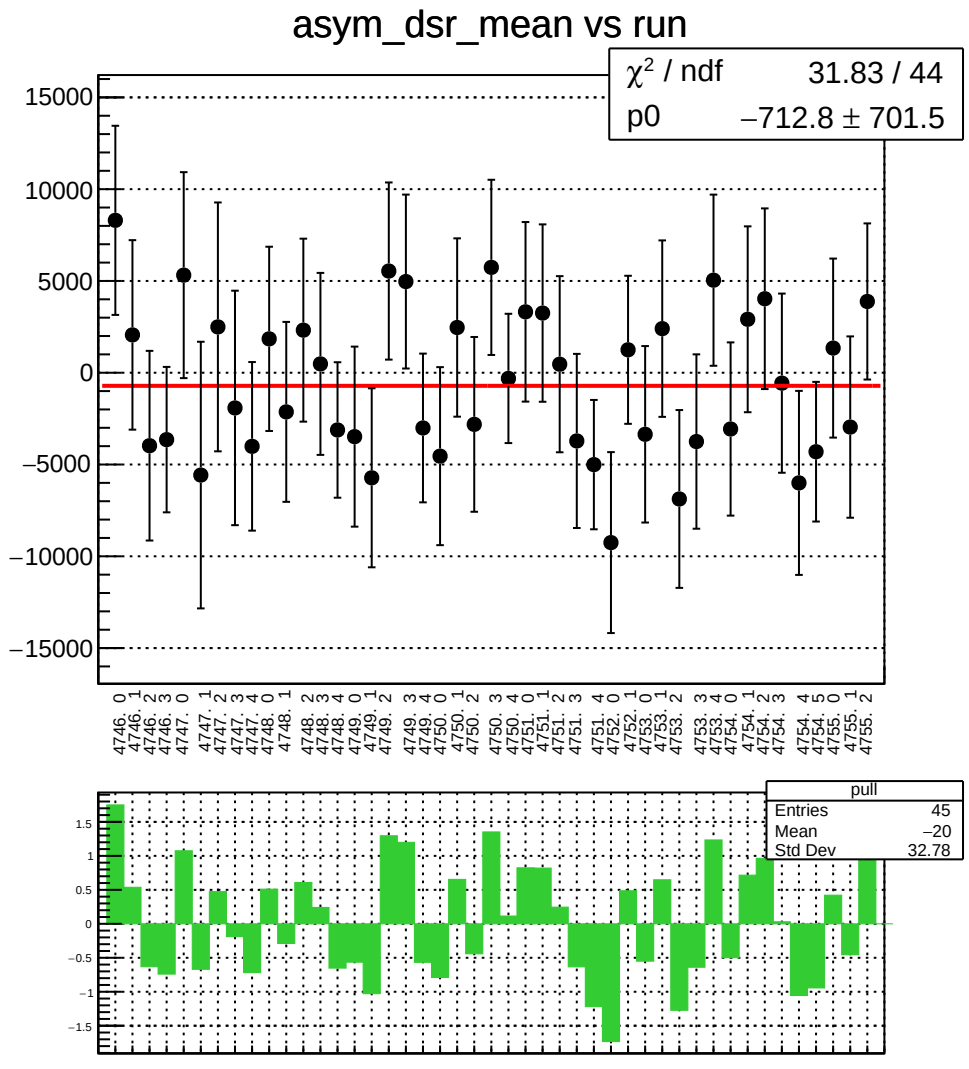

reg_asym_dsr_mean vs run
χ² / ndf 48.12 / 44
p0 −888.2 ± 197.8
4000
2000
0
−2000
−4000
−6000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 356.2
Std Dev 353.8
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.004981
Std Dev 1.034
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

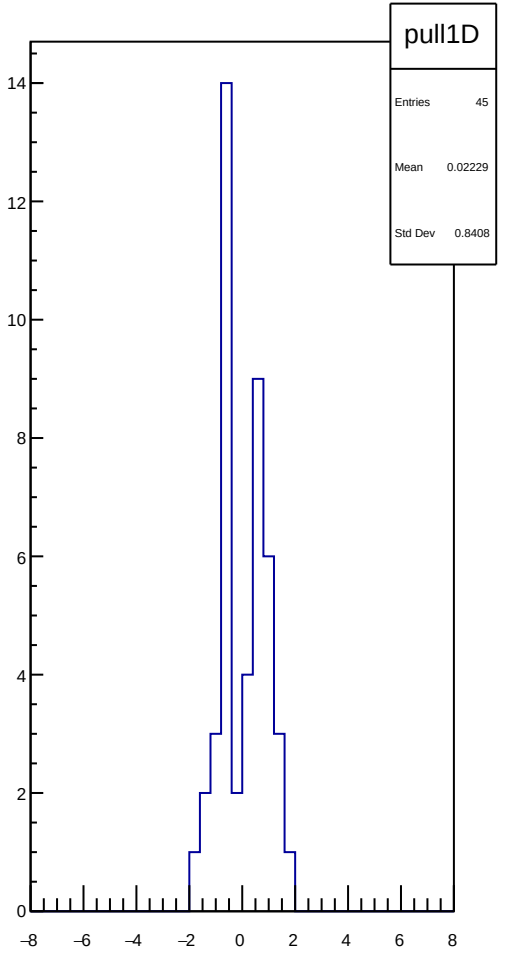

reg_asym_dsr_rms vs run
χ² / ndf 54.18 / 44
p0 134.3 ± 0.1399
138
137
136
135
134
133
132
131
130
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

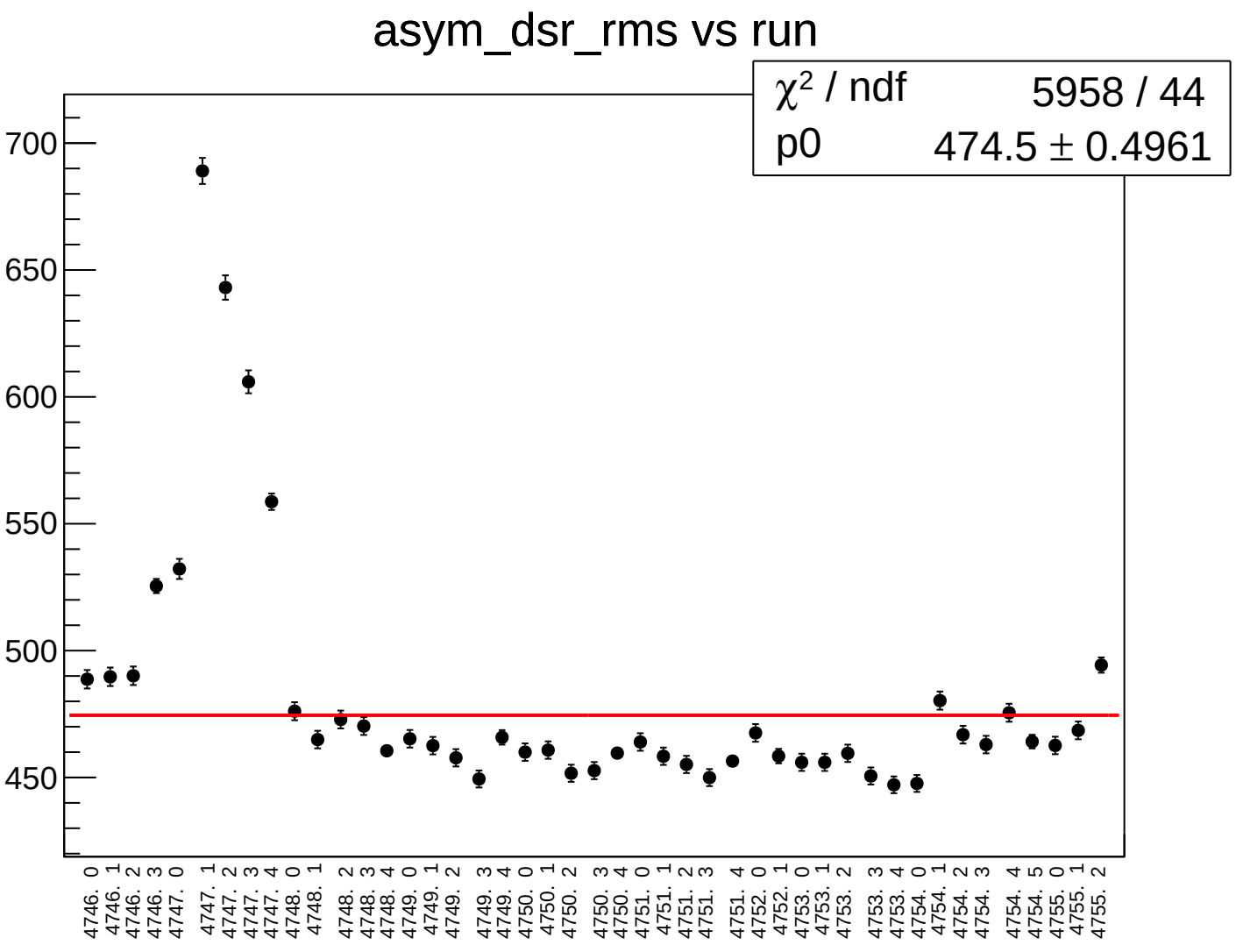

asym_dsr_correction_mean vs run
χ² / ndf 37.9 / 44
p0 −248.2 ± 672.4
15000
10000
5000
0
−5000
−10000
−15000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −14
Std Dev 39.58
1.5
1
0.5
0
−0.5
−1
−1.5
−2

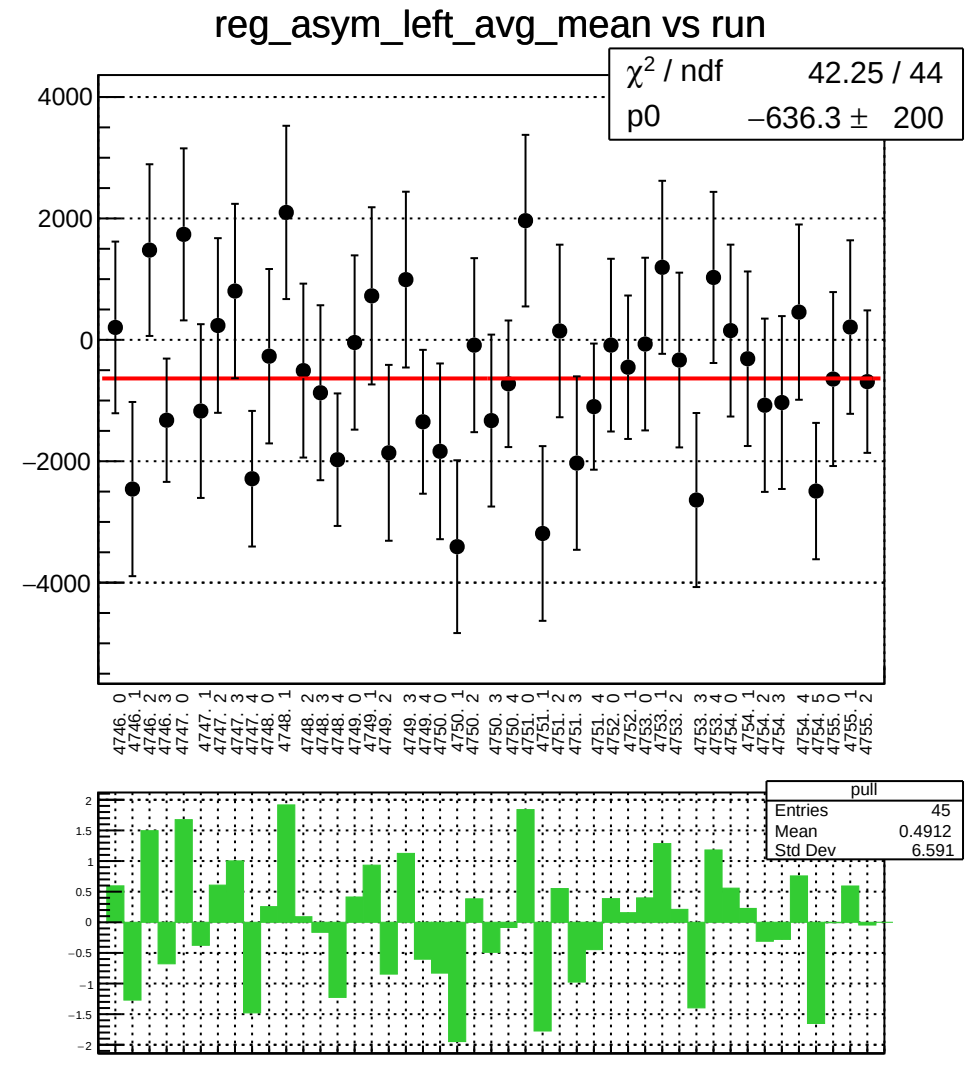

pull1D
Entries 45
Mean −0.01764
Std Dev 0.9175
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

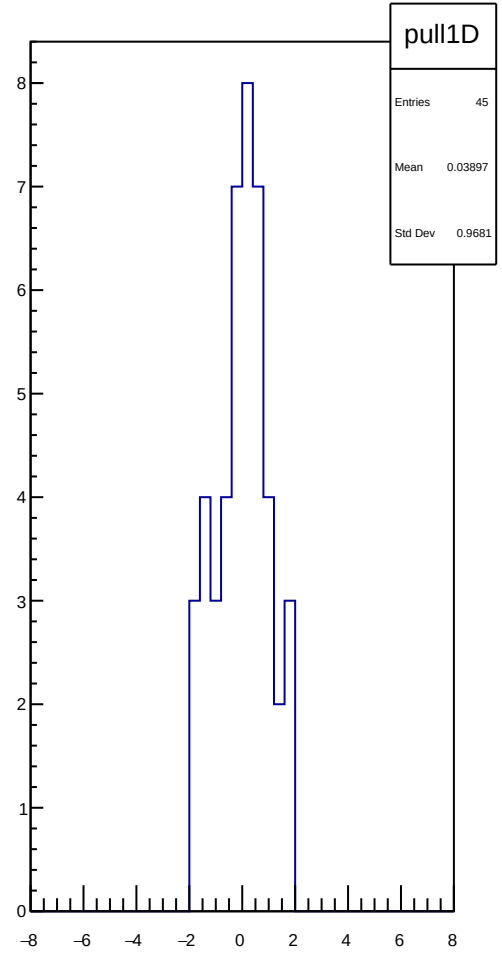

asym_dsr_correction_rms vs run
χ² / ndf 6734 / 44
p0 454.6 ± 0.4754
700
650
600
550
500
450
400
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

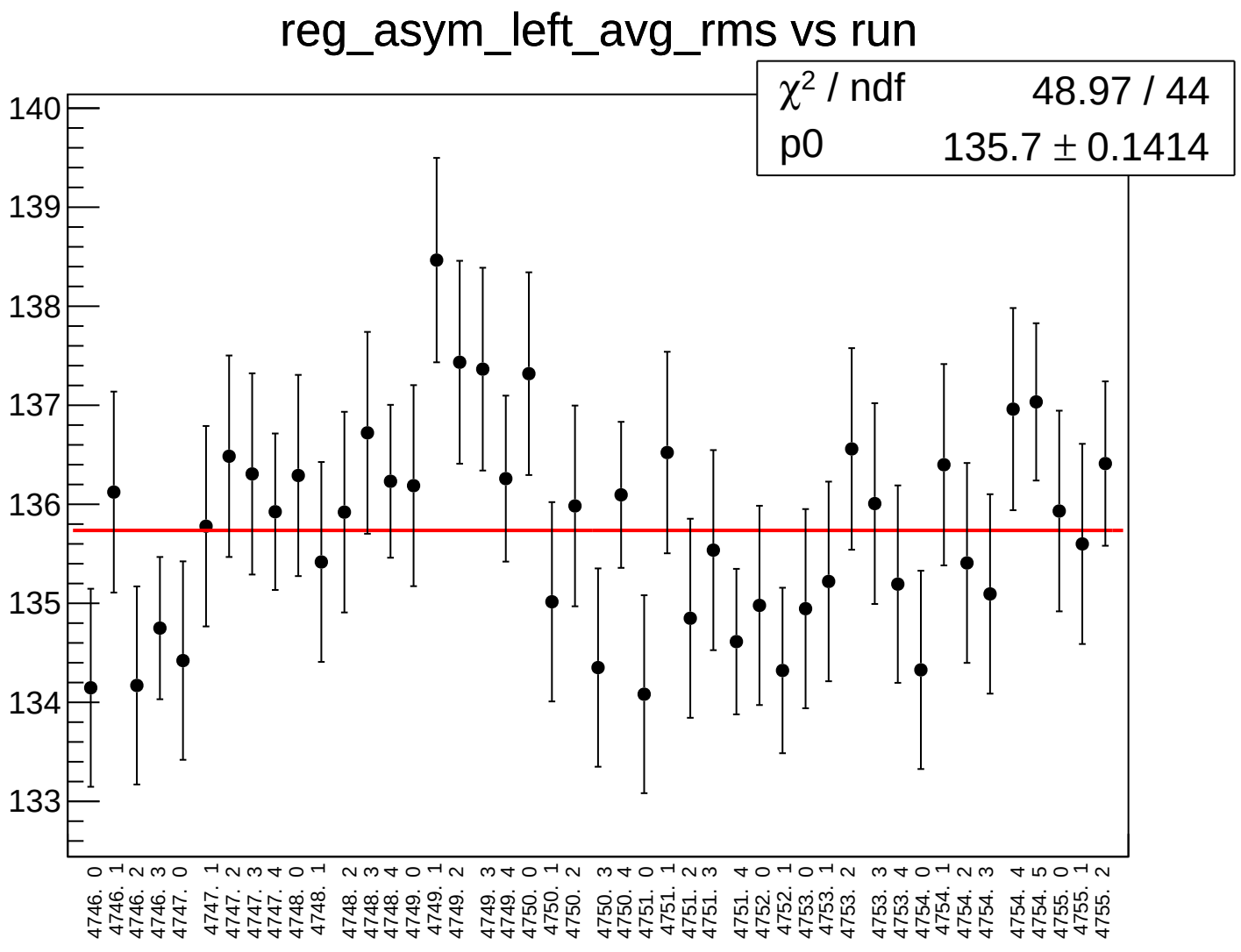

asym_dsr_mean vs run
χ² / ndf 31.83 / 44
p0 −712.8 ± 701.5
15000
10000
5000
0
−5000
−10000
−15000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −20
Std Dev 32.78
1.5
1
0.5
0
−0.5
−1
−1.5

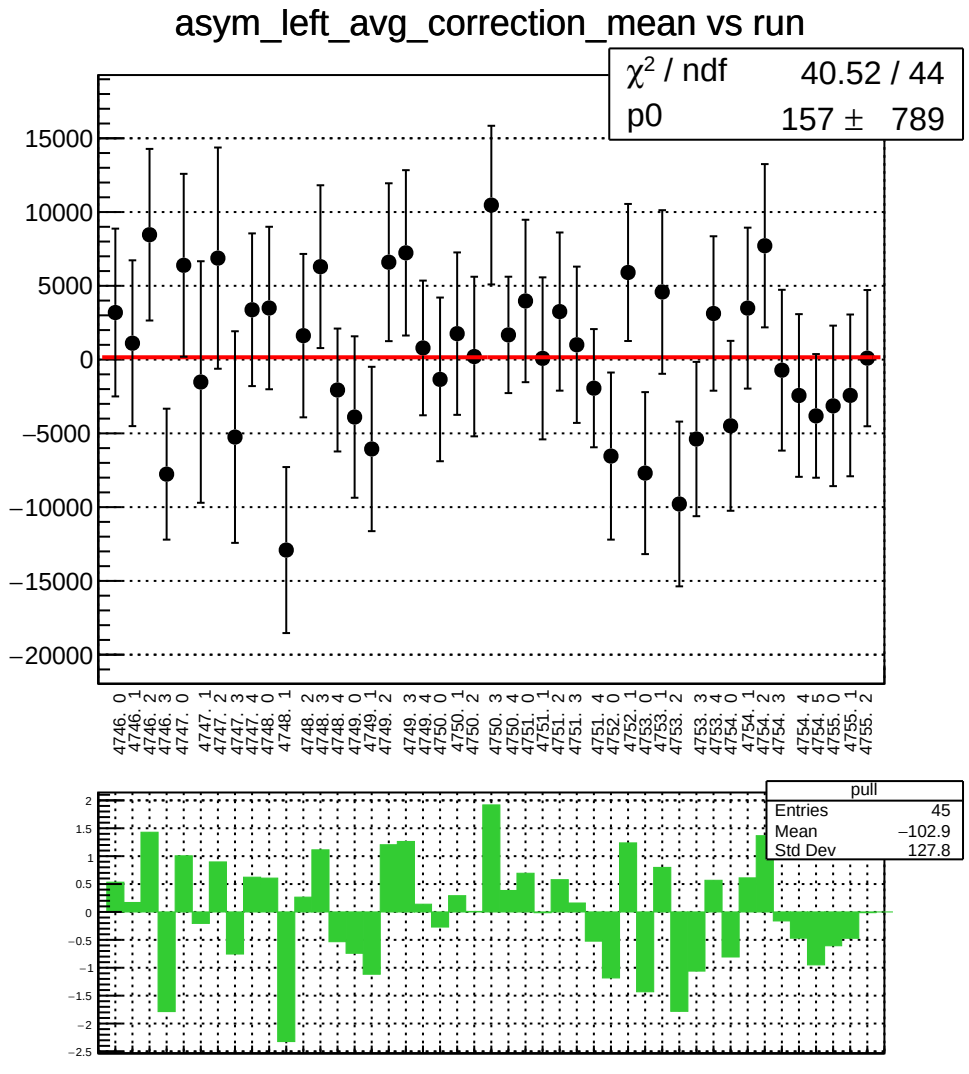

pull1D
Entries 45
Mean 0.02229
Std Dev 0.8408
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

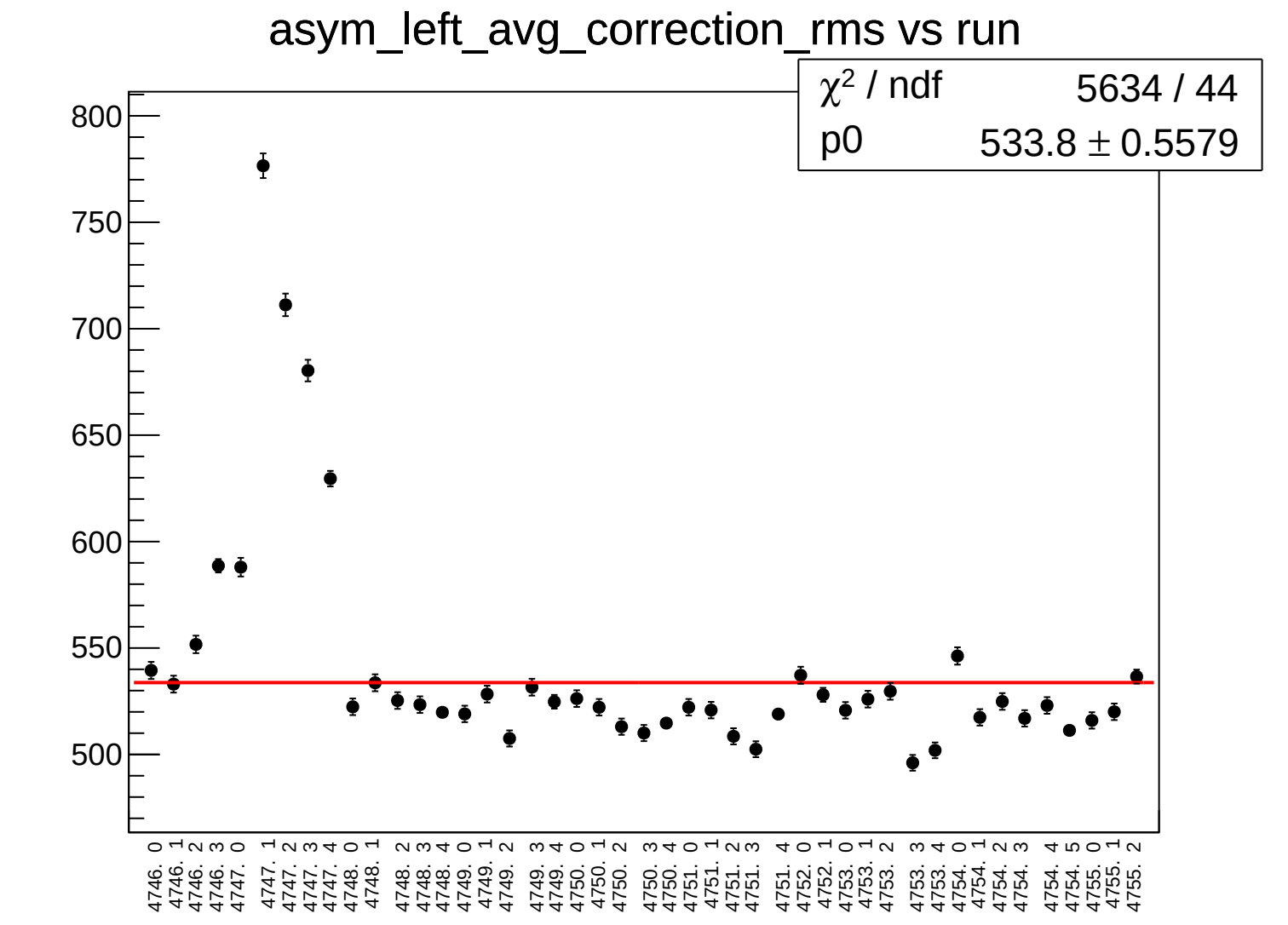

asym_dsr_rms vs run
χ² / ndf 5958 / 44
p0 474.5 ± 0.4961
700
650
600
550
500
450
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

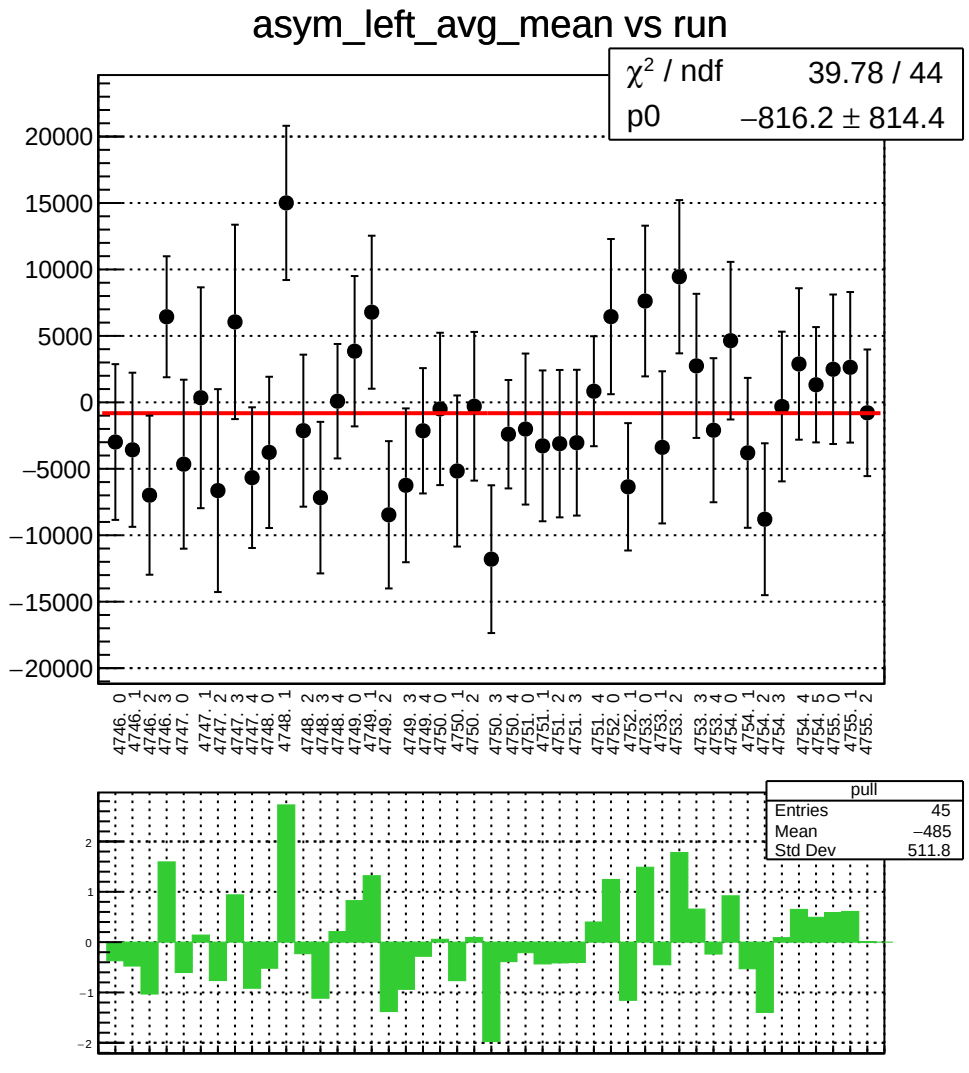

reg_asym_left_avg_mean vs run
χ² / ndf 42.25 / 44
p0 −636.3 ± 200
4000
2000
0
−2000
−4000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 0.4912
Std Dev 6.591
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

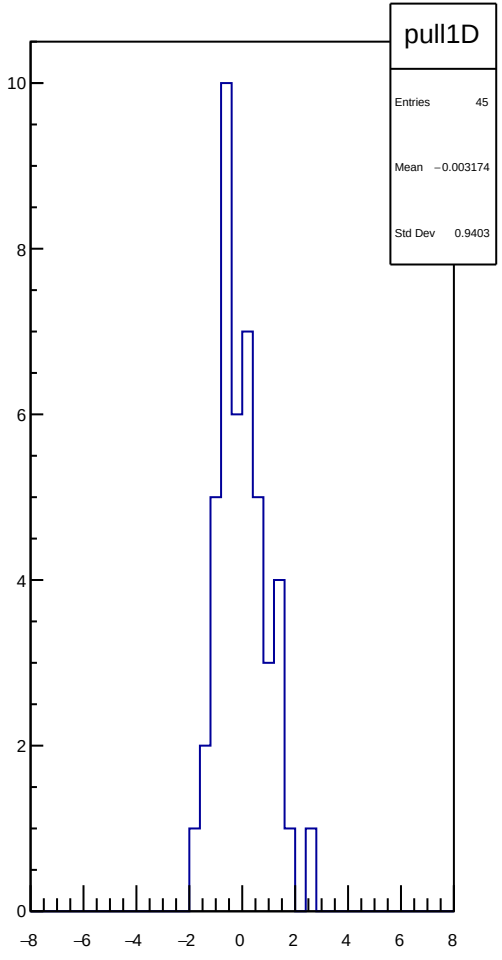

pull1D
Entries 45
Mean 0.03897
Std Dev 0.9681
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

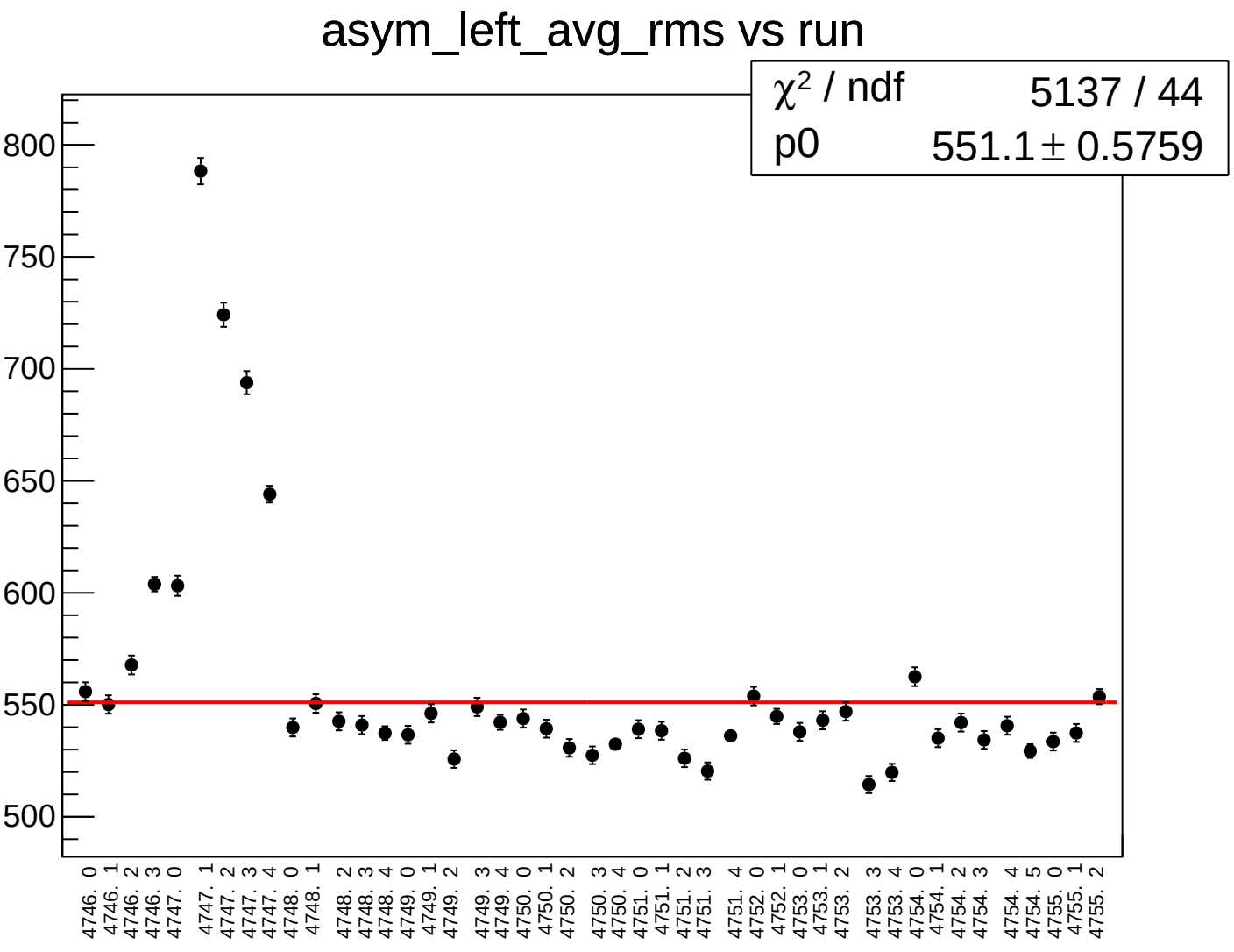

reg_asym_left_avg_rms vs run
χ² / ndf 48.97 / 44
p0 135.7 ± 0.1414
140
139
138
137
136
135
134
133
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

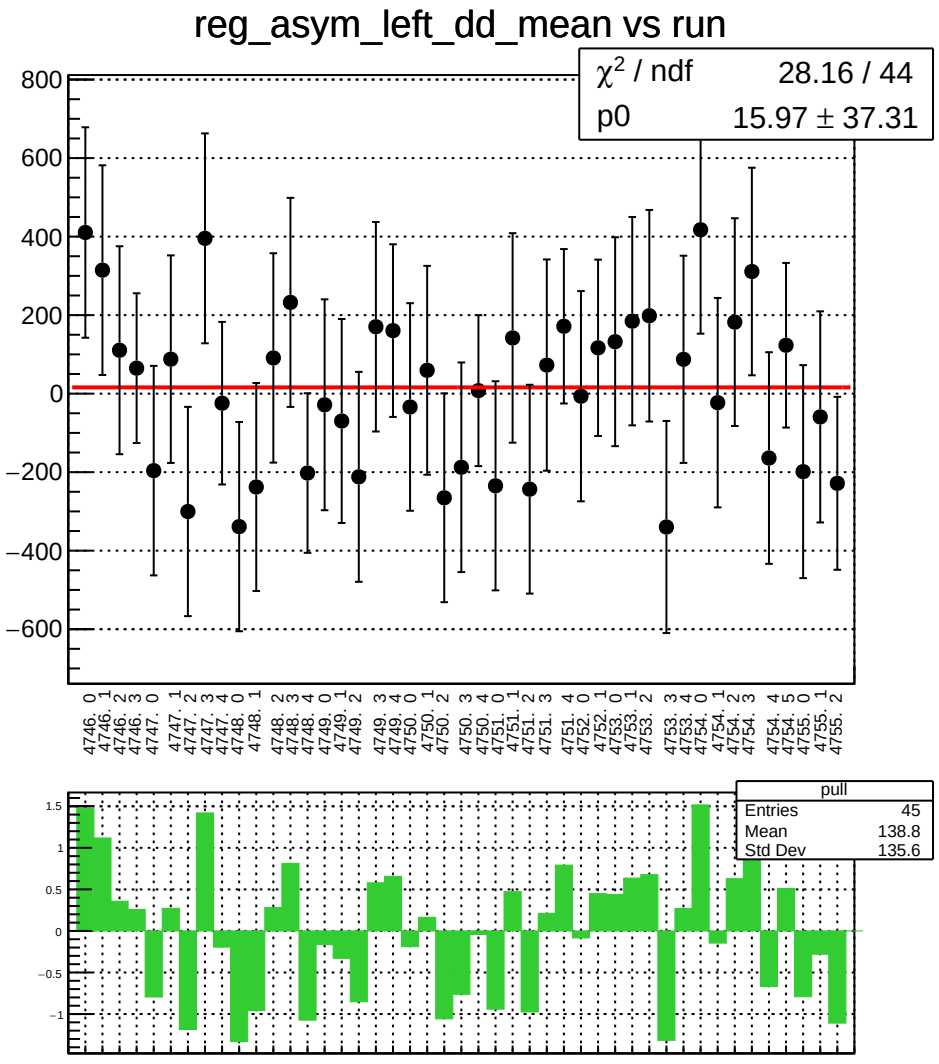

asym_left_avg_correction_mean vs run
χ² / ndf 40.52 / 44
p0 157 ± 789
15000
10000
5000
0
−5000
−10000
−15000
−20000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −102.9
Std Dev 127.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.01488
Std Dev 0.9488
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

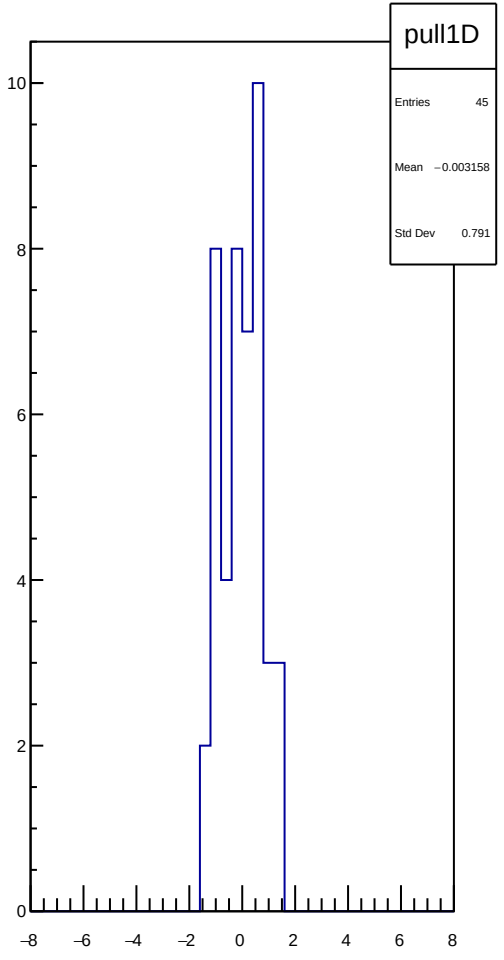

asym_left_avg_correction_rms vs run
χ² / ndf 5634 / 44
p0 533.8 ± 0.5579
800
750
700
650
600
550
500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

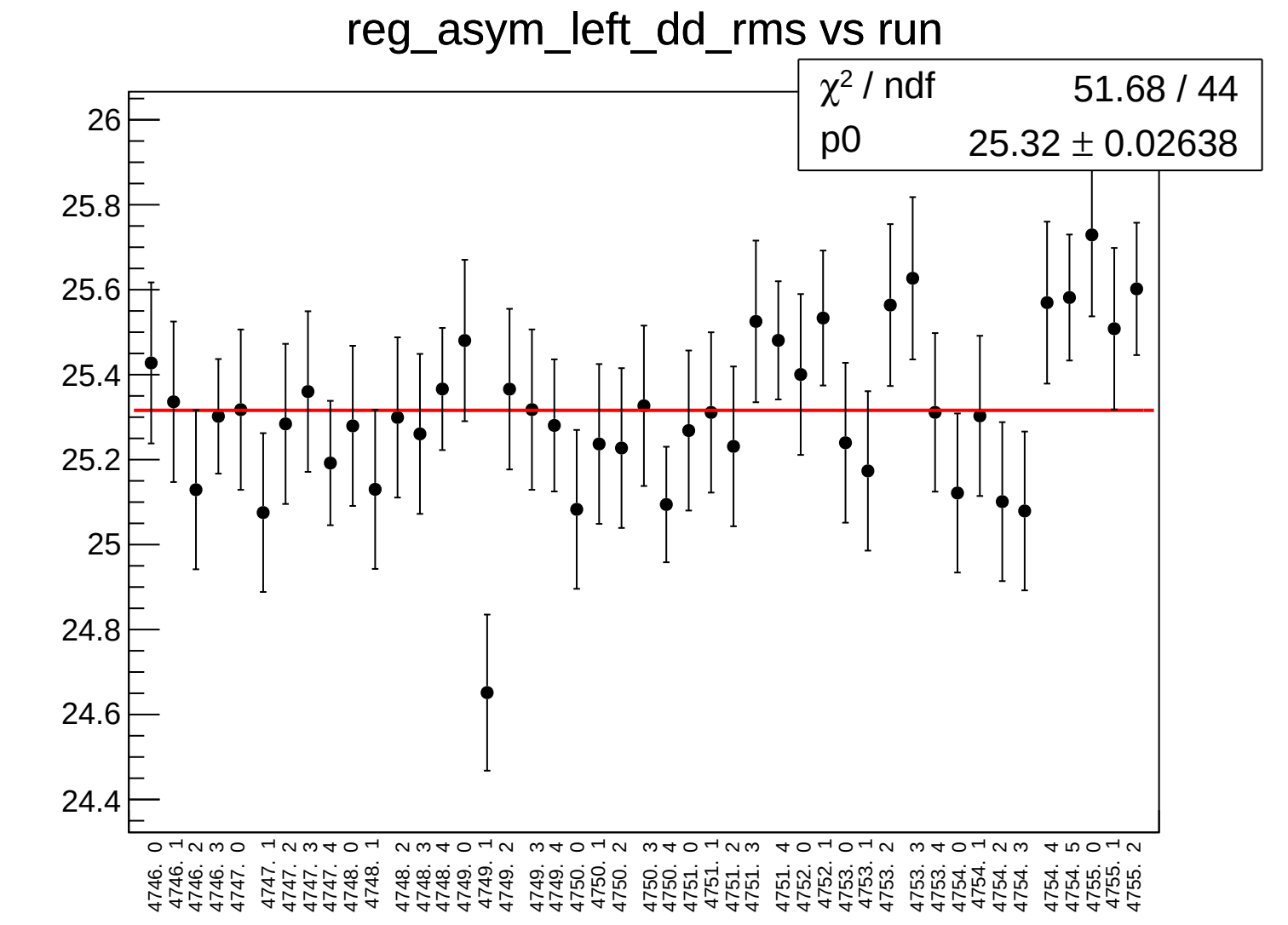

asym_left_avg_mean vs run
χ² / ndf 39.78 / 44
p0 −816.2 ± 814.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −485
Std Dev 511.8
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.003174
Std Dev 0.9403
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_left_avg_rms vs run
χ² / ndf 5137 / 44
p0 551.1 ± 0.5759
800
750
700
650
600
550
500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2


reg_asym_left_dd_mean vs run
χ^2 / ndf 28.16 / 44
p0 15.97 ± 37.31
pull
Entries 45
Mean 138.8
Std Dev 135.6


pull1D
Entries 45
Mean −0.003158
Std Dev 0.791


reg_asym_left_dd_rms vs run
χ² / ndf 51.68 / 44
p0 25.32 ± 0.02638
26
25.8
25.6
25.4
25.2
25
24.8
24.6
24.4
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
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4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
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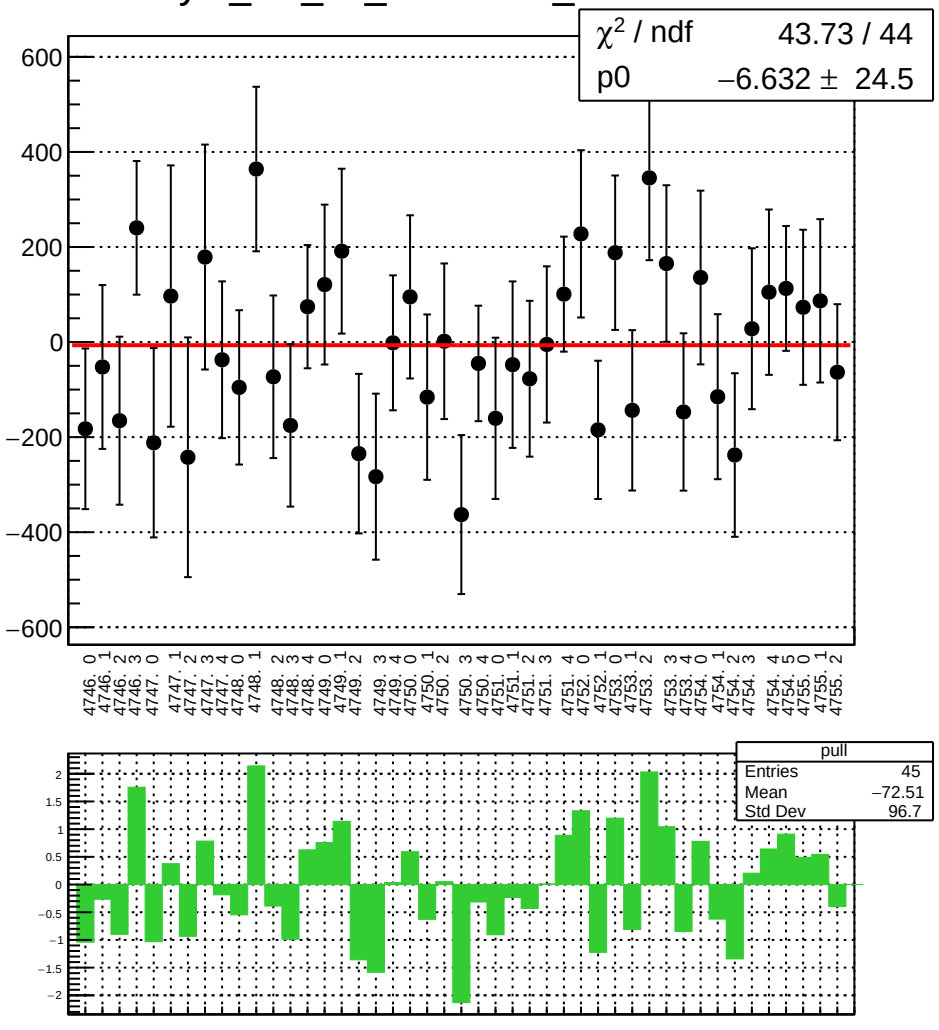
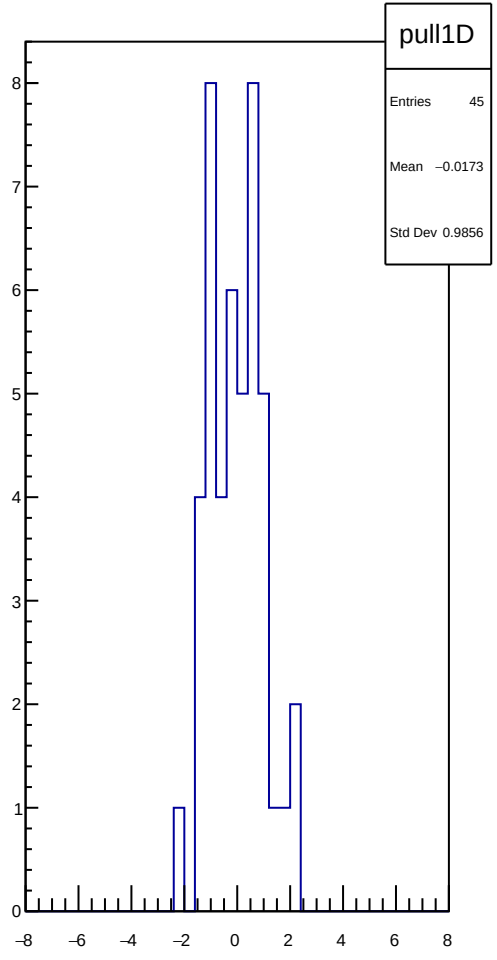
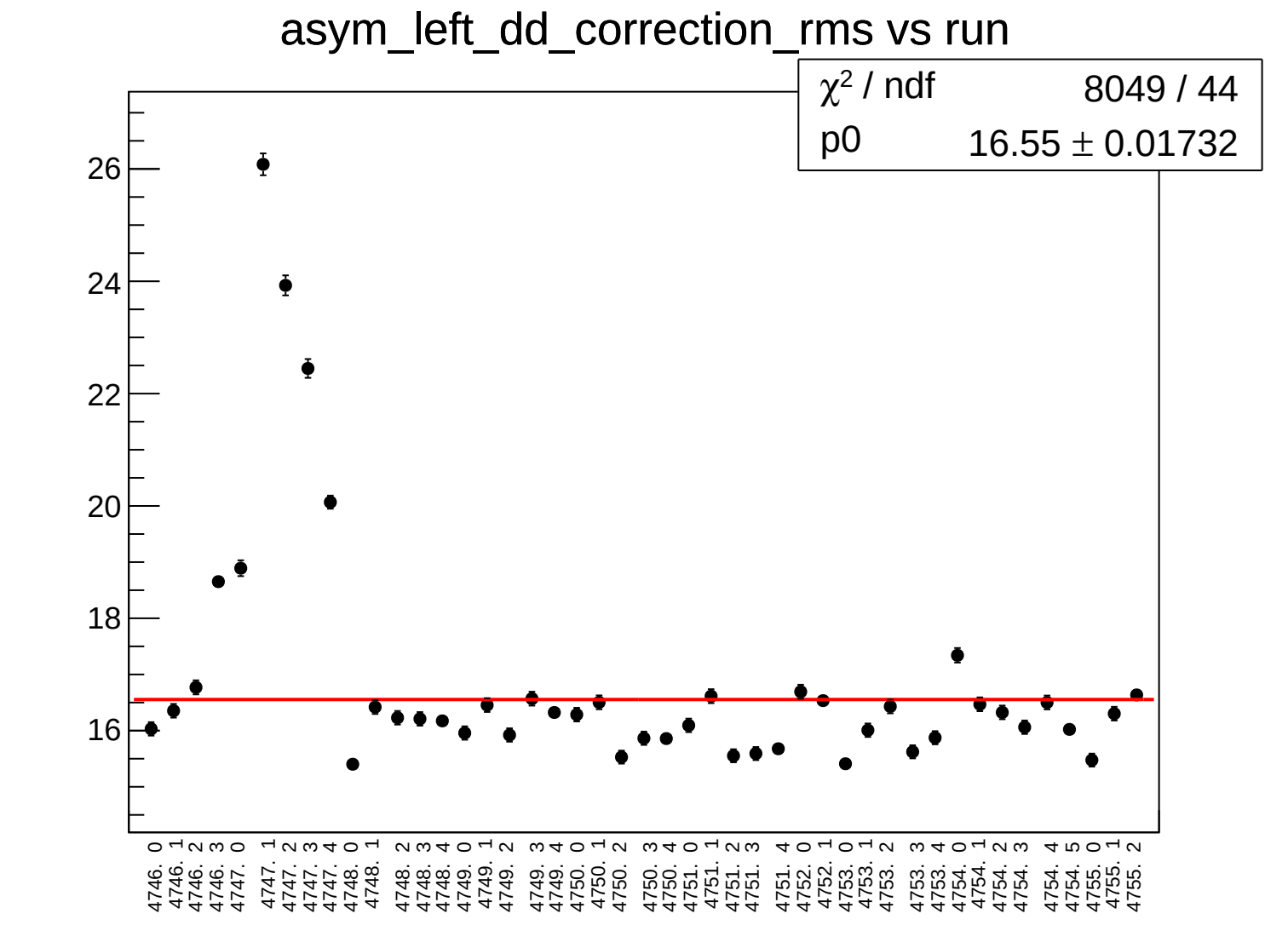
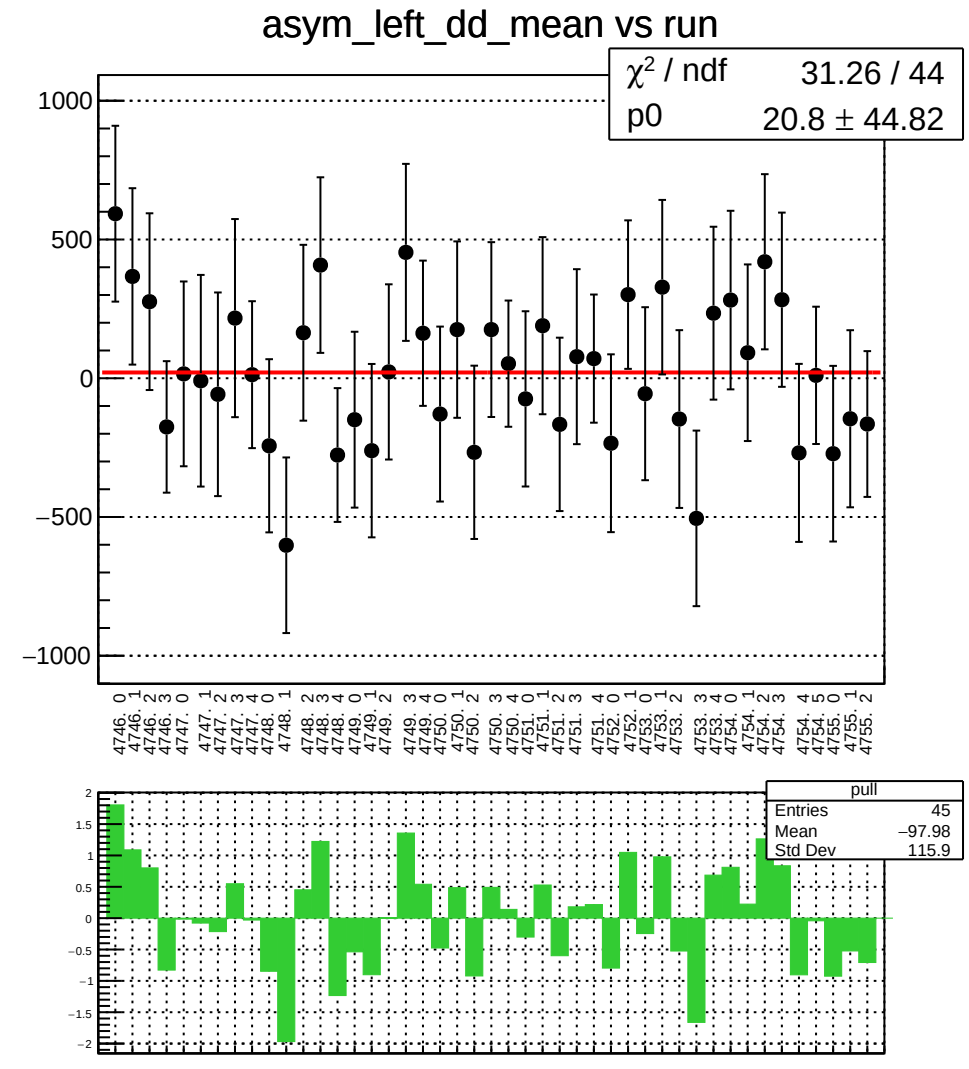
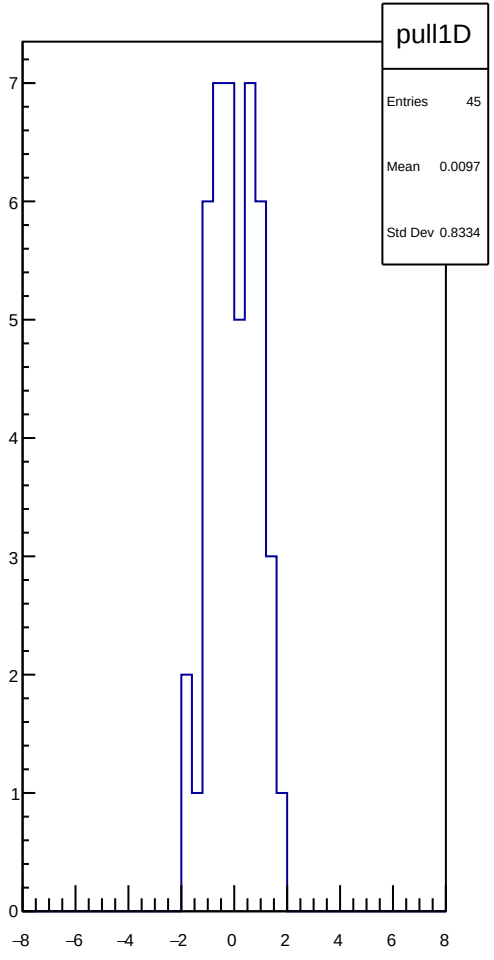
4755. 1
4755. 2

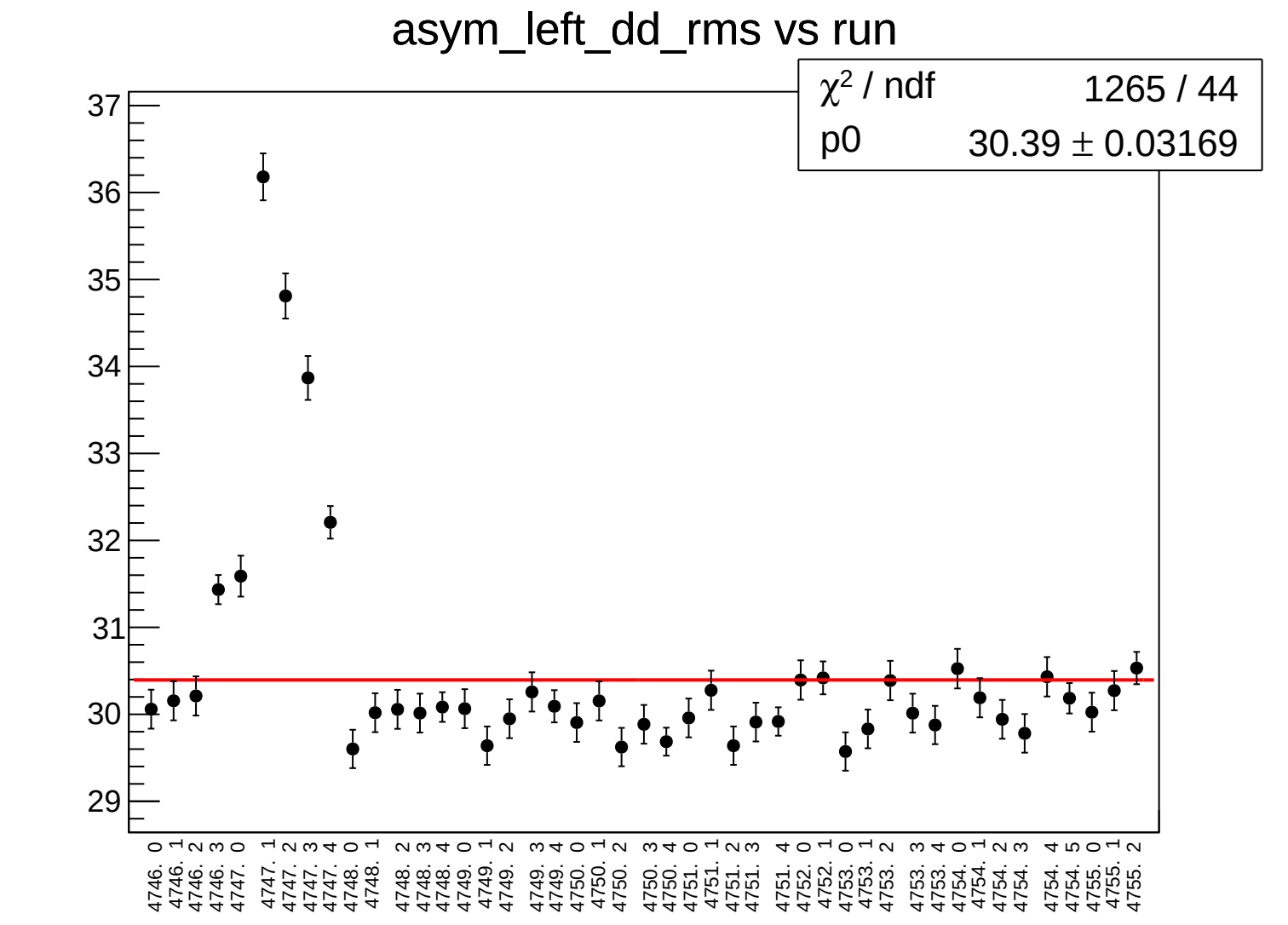

asym_left_dd_correction_mean vs run
χ² / ndf 43.73 / 44
p0 −6.632 ± 24.5
pull
Entries 45
Mean −72.51
Std Dev 96.7

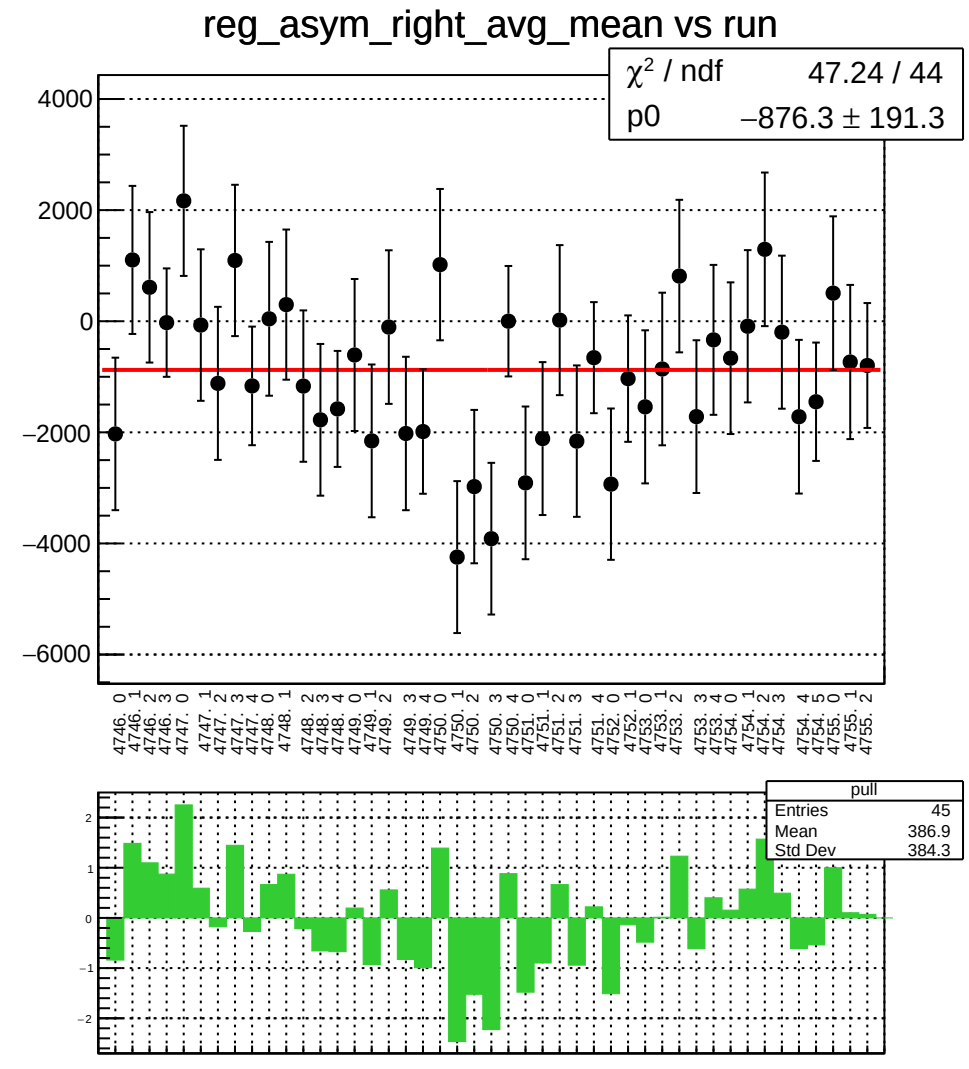

pull1D
Entries 45
Mean −0.0173
Std Dev 0.9856

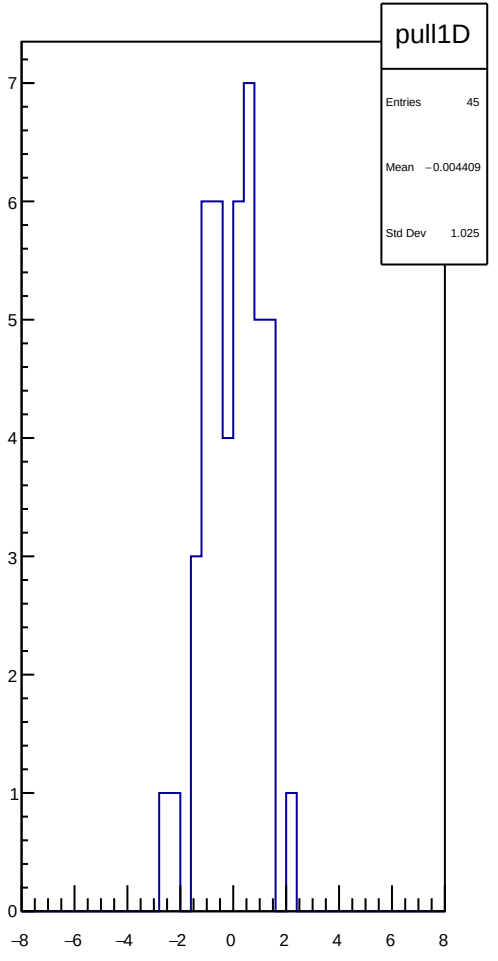

asym_left_dd_correction_rms vs run
χ² / ndf 8049 / 44
p0 16.55 ± 0.01732
26
24
22
20
18
16
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

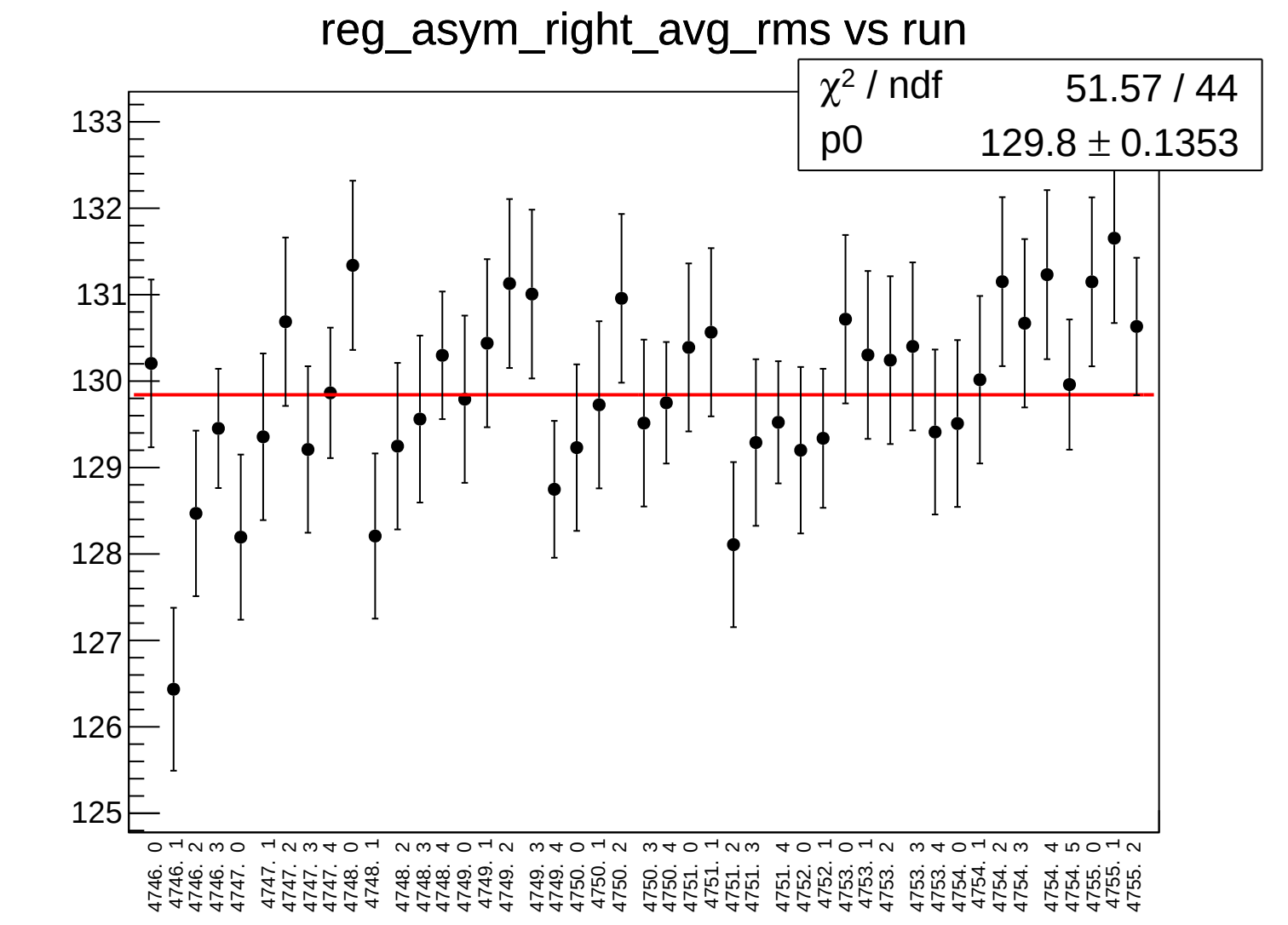

asym_left_dd_mean vs run
χ² / ndf 31.26 / 44
p0 20.8 ± 44.82
1000
500
0
−500
−1000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −97.98
Std Dev 115.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

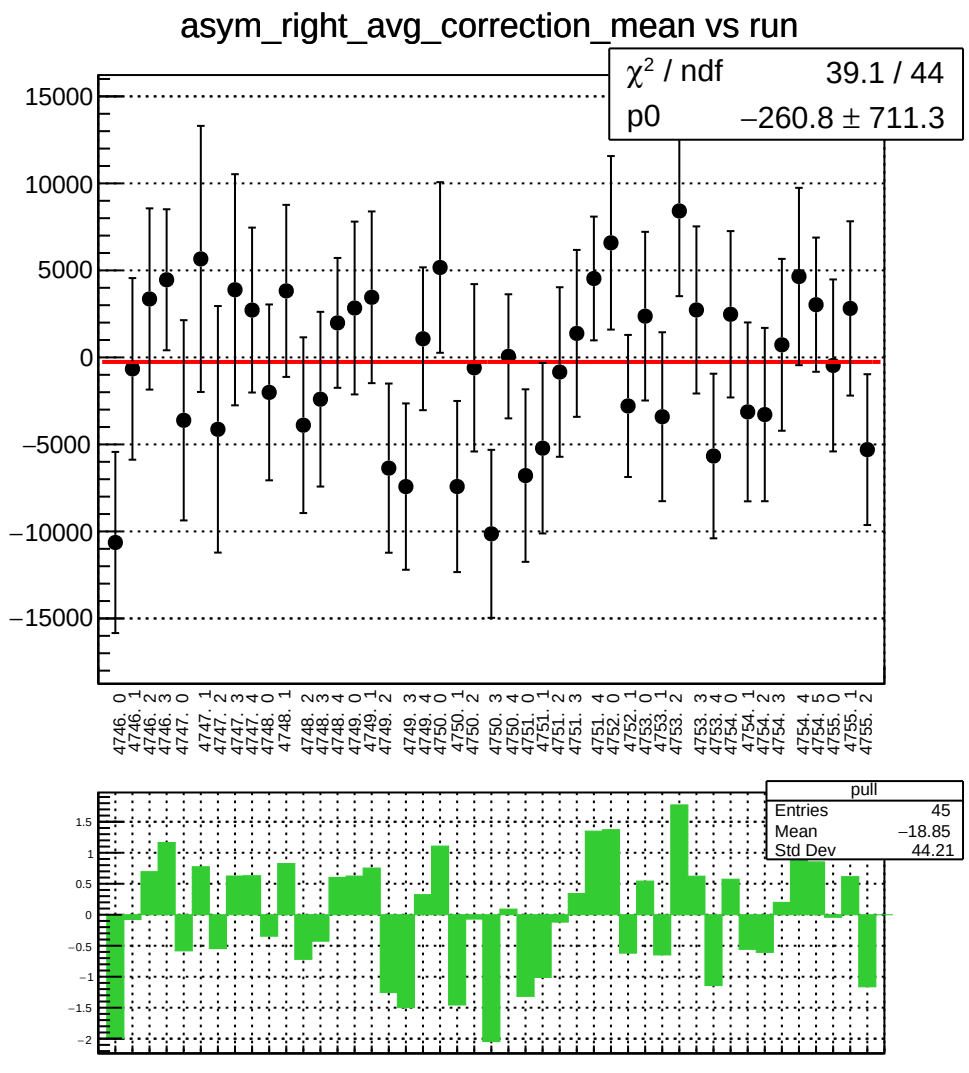

pull1D
Entries 45
Mean 0.0097
Std Dev 0.8334
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

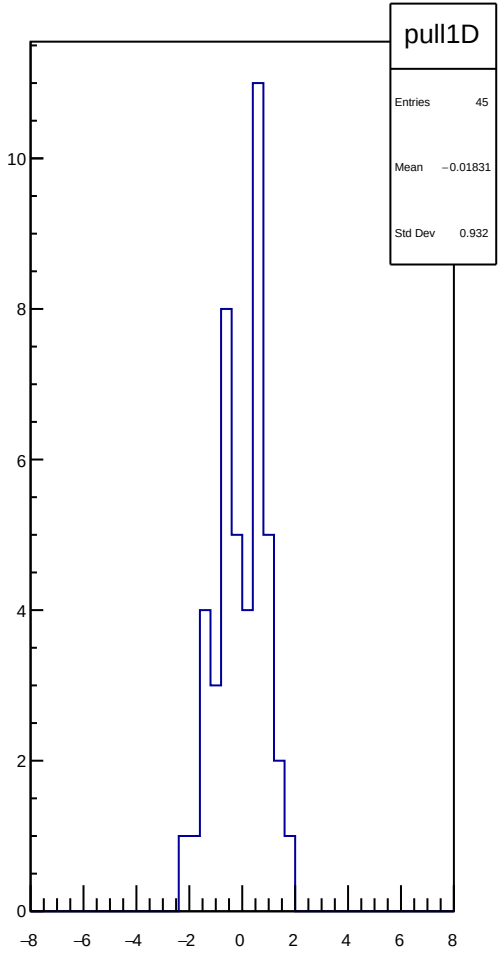

asym_left_dd_rms vs run
χ² / ndf 1265 / 44
p0 30.39 ± 0.03169
37
36
35
34
33
32
31
30
29
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

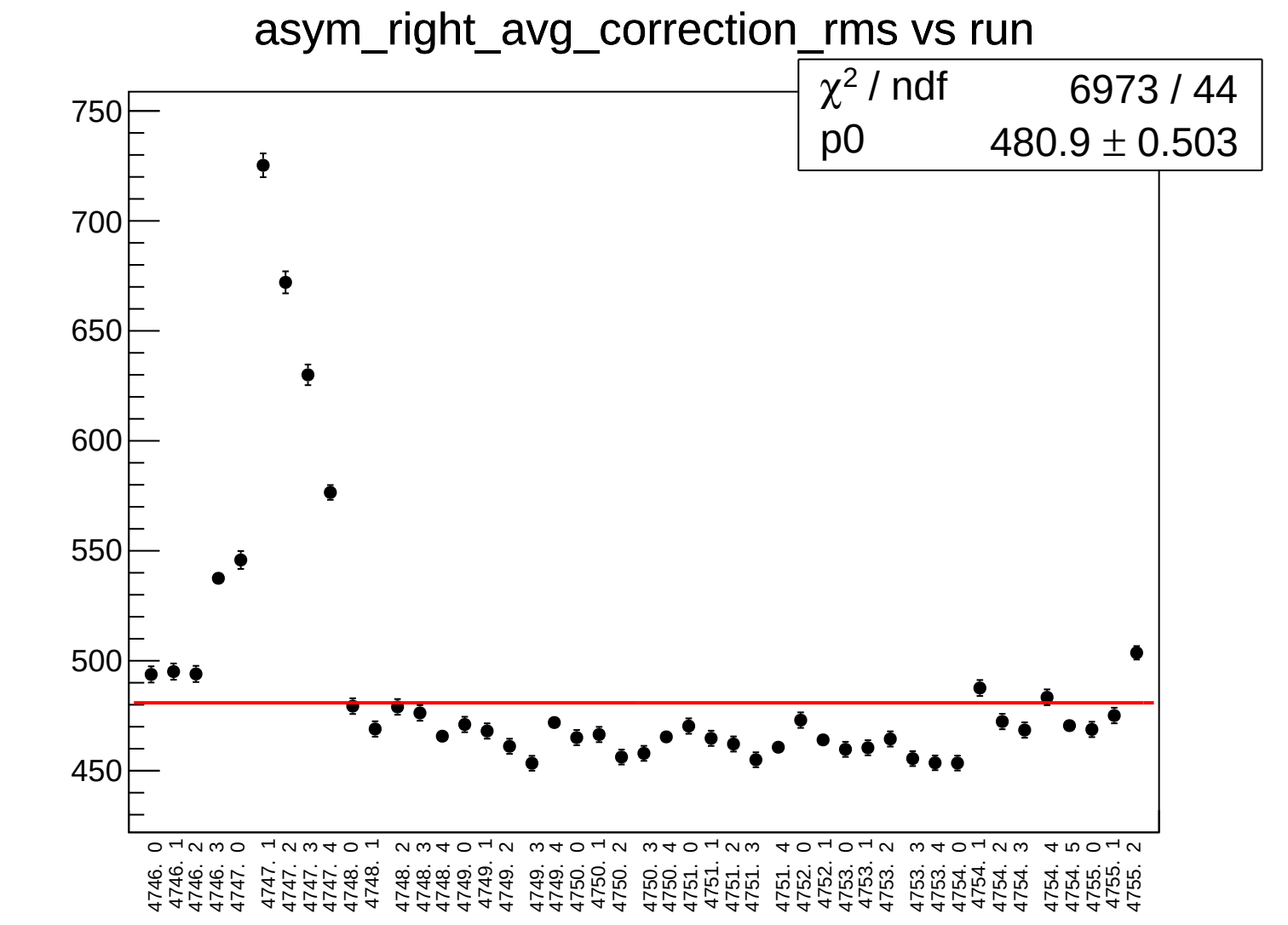

reg_asym_right_avg_mean vs run
χ² / ndf 47.24 / 44
p0 −876.3 ± 191.3
4000
2000
0
−2000
−4000
−6000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 386.9
Std Dev 384.3
2
1
0
−1
−2

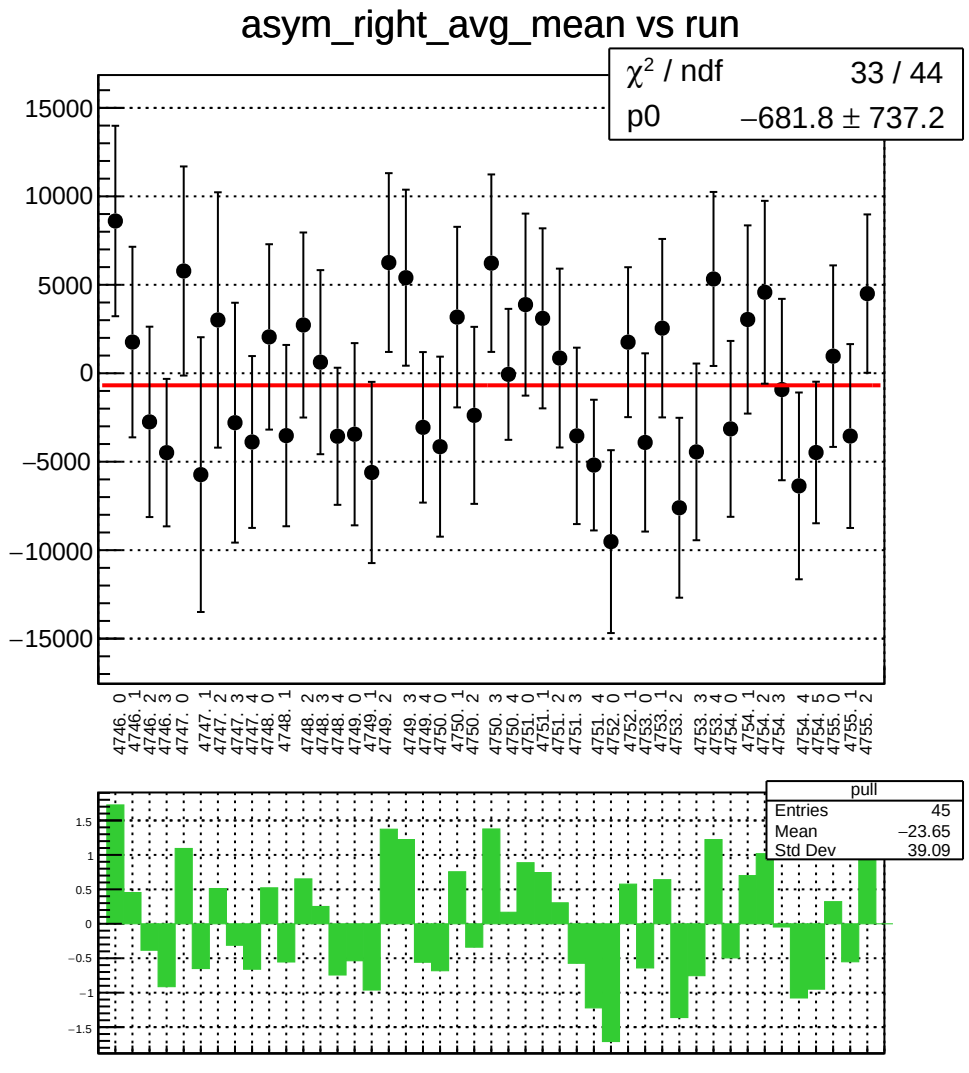

pull1D
Entries 45
Mean −0.004409
Std Dev 1.025
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

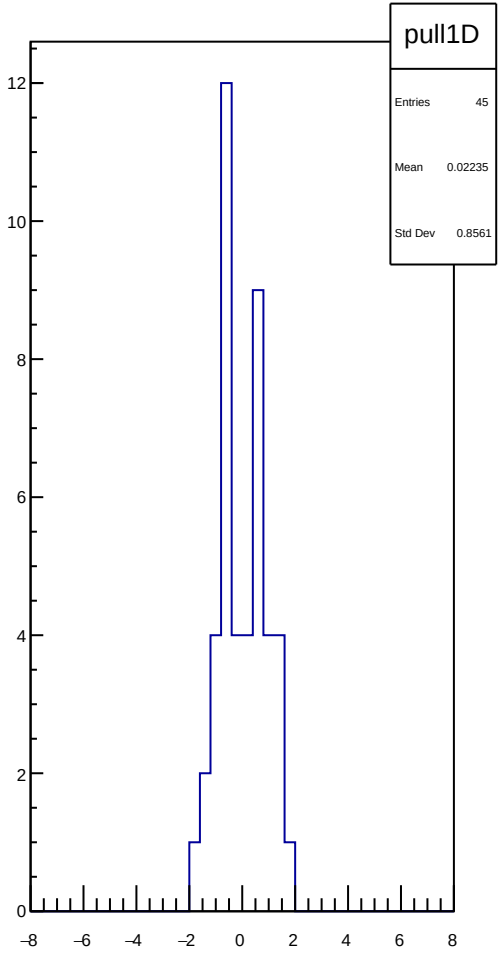

reg_asym_right_avg_rms vs run
χ² / ndf 51.57 / 44
p0 129.8 ± 0.1353
133
132
131
130
129
128
127
126
125
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

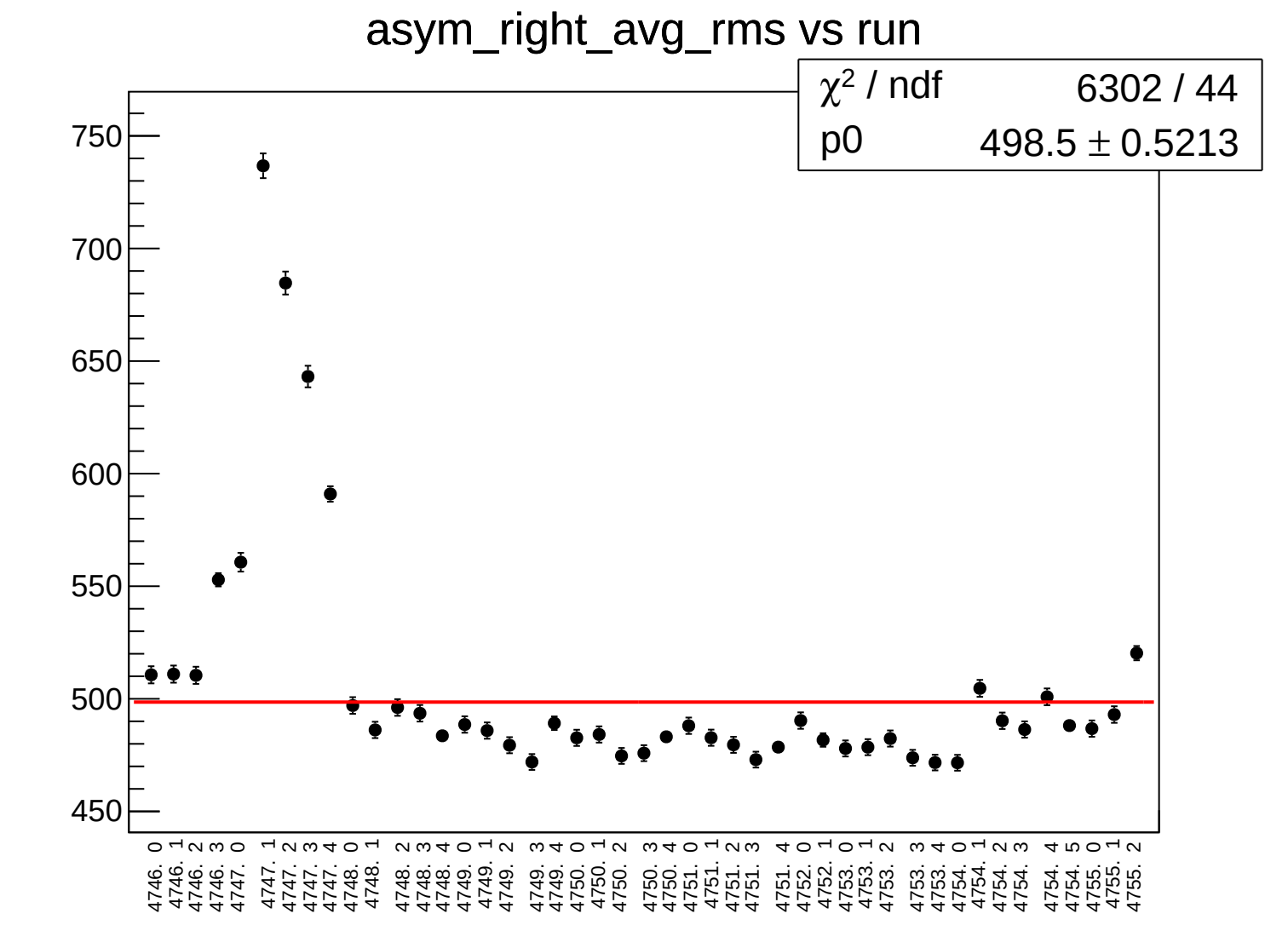

asym_right_avg_correction_mean vs run
χ² / ndf 39.1 / 44
p0 −260.8 ± 711.3
15000
10000
5000
0
−5000
−10000
−15000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −18.85
Std Dev 44.21
1.5
1
0.5
0
−0.5
−1
−1.5
−2

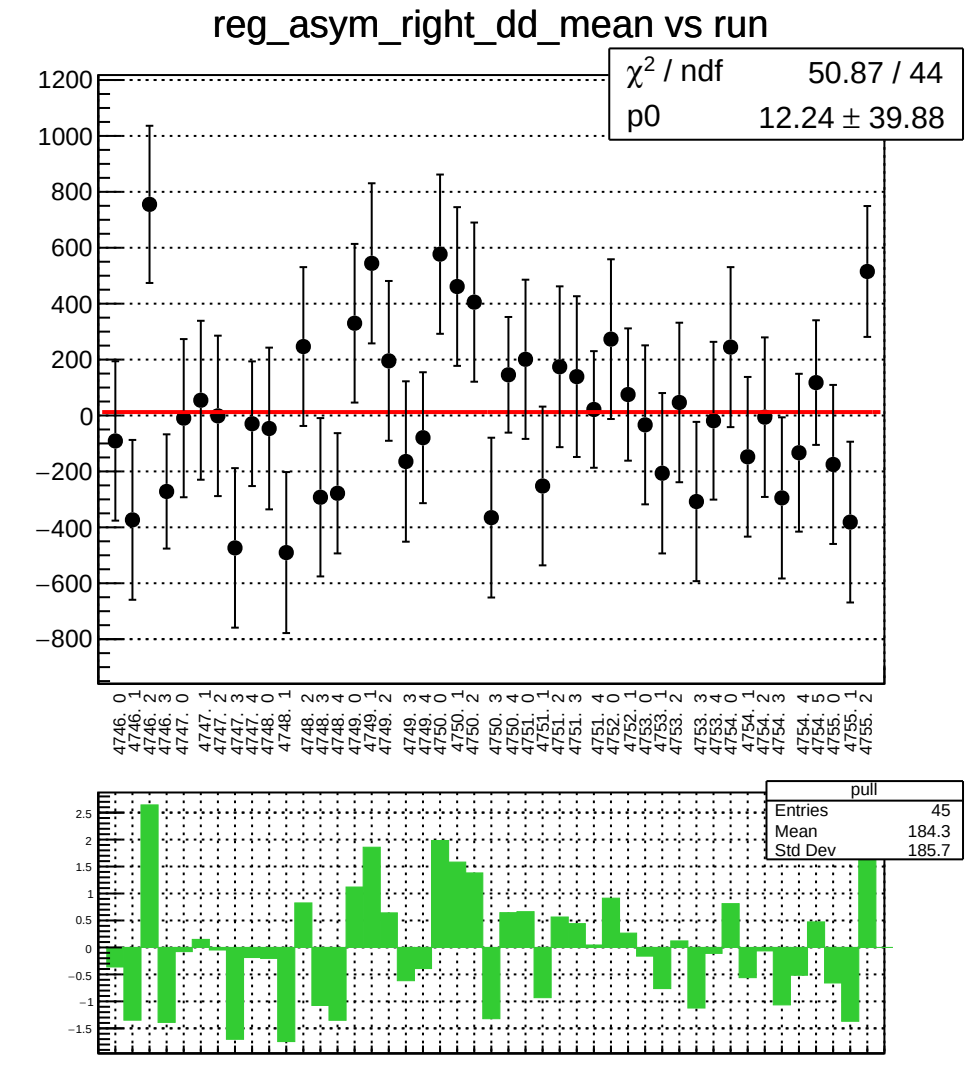

pull1D
Entries 45
Mean −0.01831
Std Dev 0.932
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

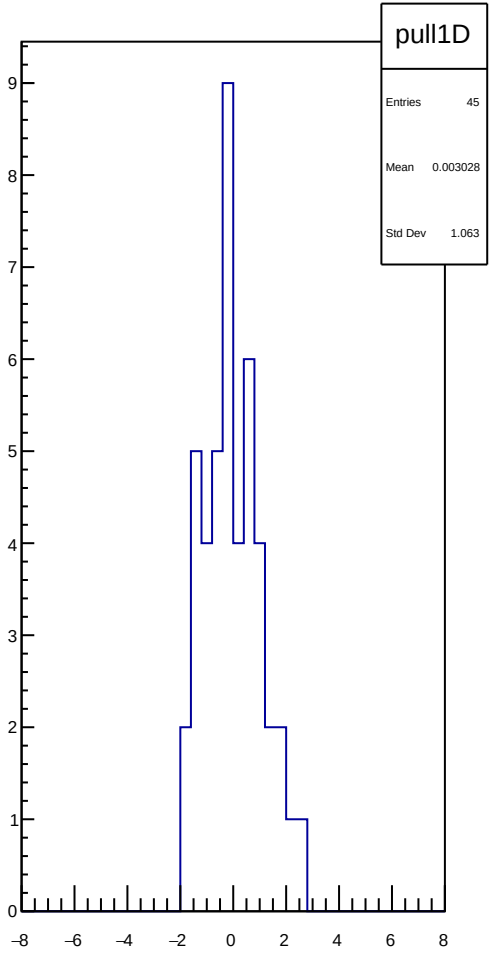

asym_right_avg_correction_rms vs run
χ^2 / ndf 6973 / 44
p0 480.9 ± 0.503
750
700
650
600
550
500
450
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

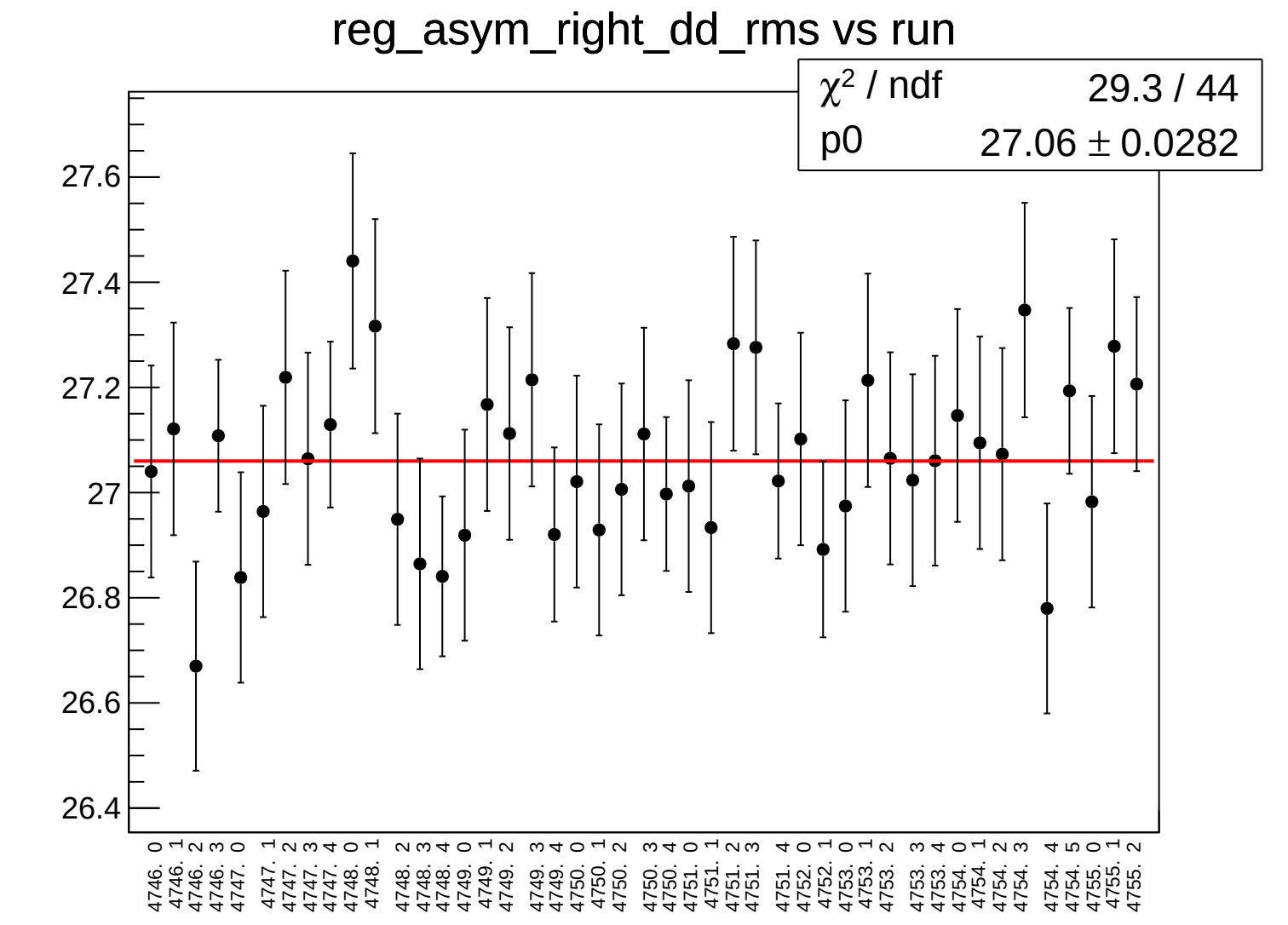

asym_right_avg_mean vs run
χ² / ndf 33 / 44
p0 −681.8 ± 737.2
15000
10000
5000
0
−5000
−10000
−15000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −23.65
Std Dev 39.09
1.5
1
0.5
0
−0.5
−1
−1.5

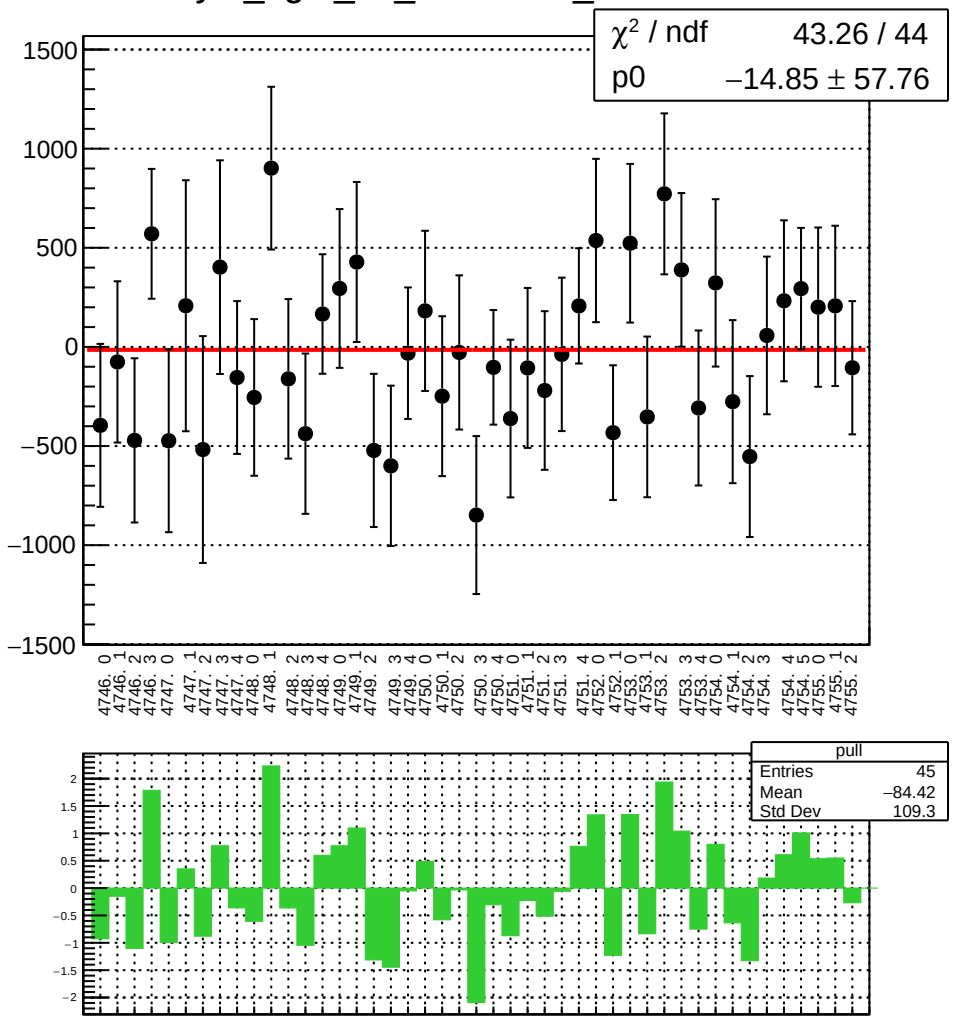

pull1D
Entries 45
Mean 0.02235
Std Dev 0.8561
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

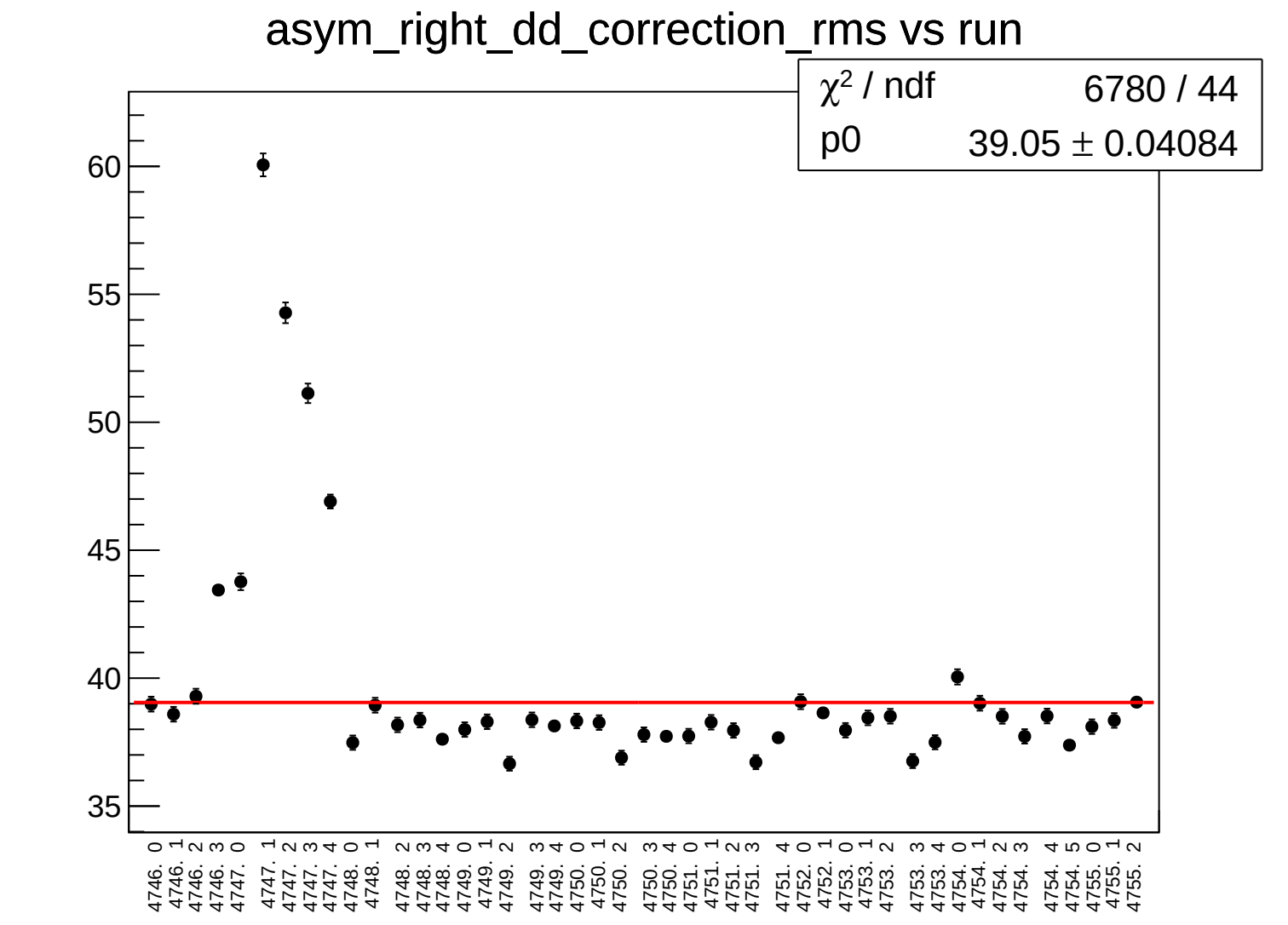

asym_right_avg_rms vs run
χ² / ndf 6302 / 44
p0 498.5 ± 0.5213
750
700
650
600
550
500
450
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

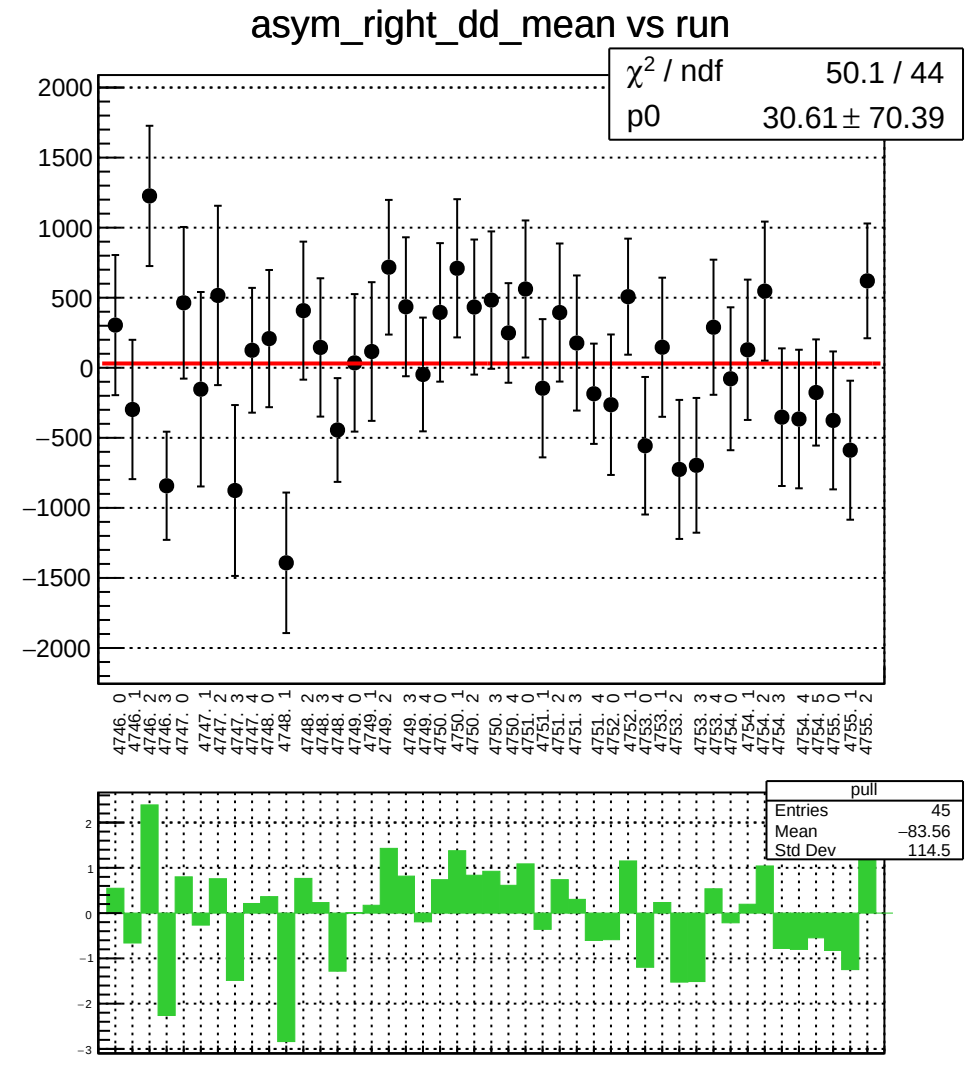

reg_asym_right_dd_mean vs run
χ² / ndf 50.87 / 44
p0 12.24 ± 39.88
pull
Entries 45
Mean 184.3
Std Dev 185.7

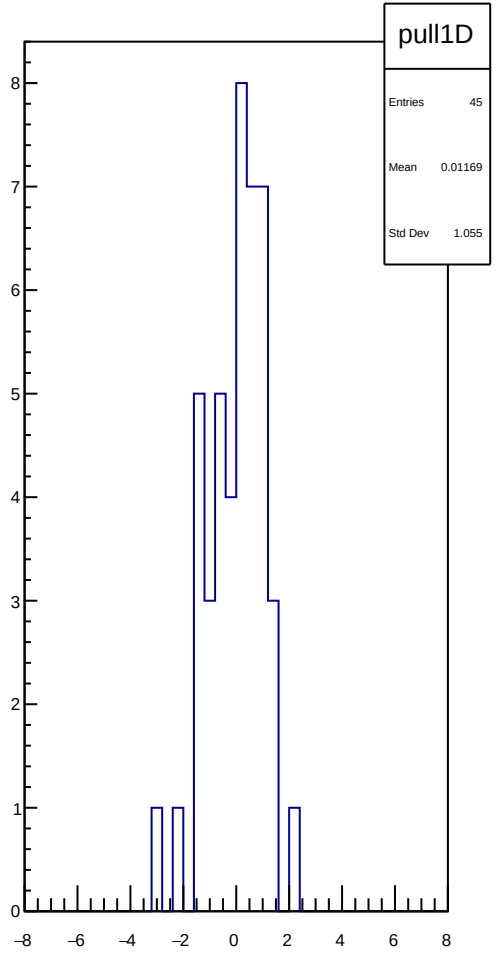

pull1D
Entries 45
Mean 0.003028
Std Dev 1.063

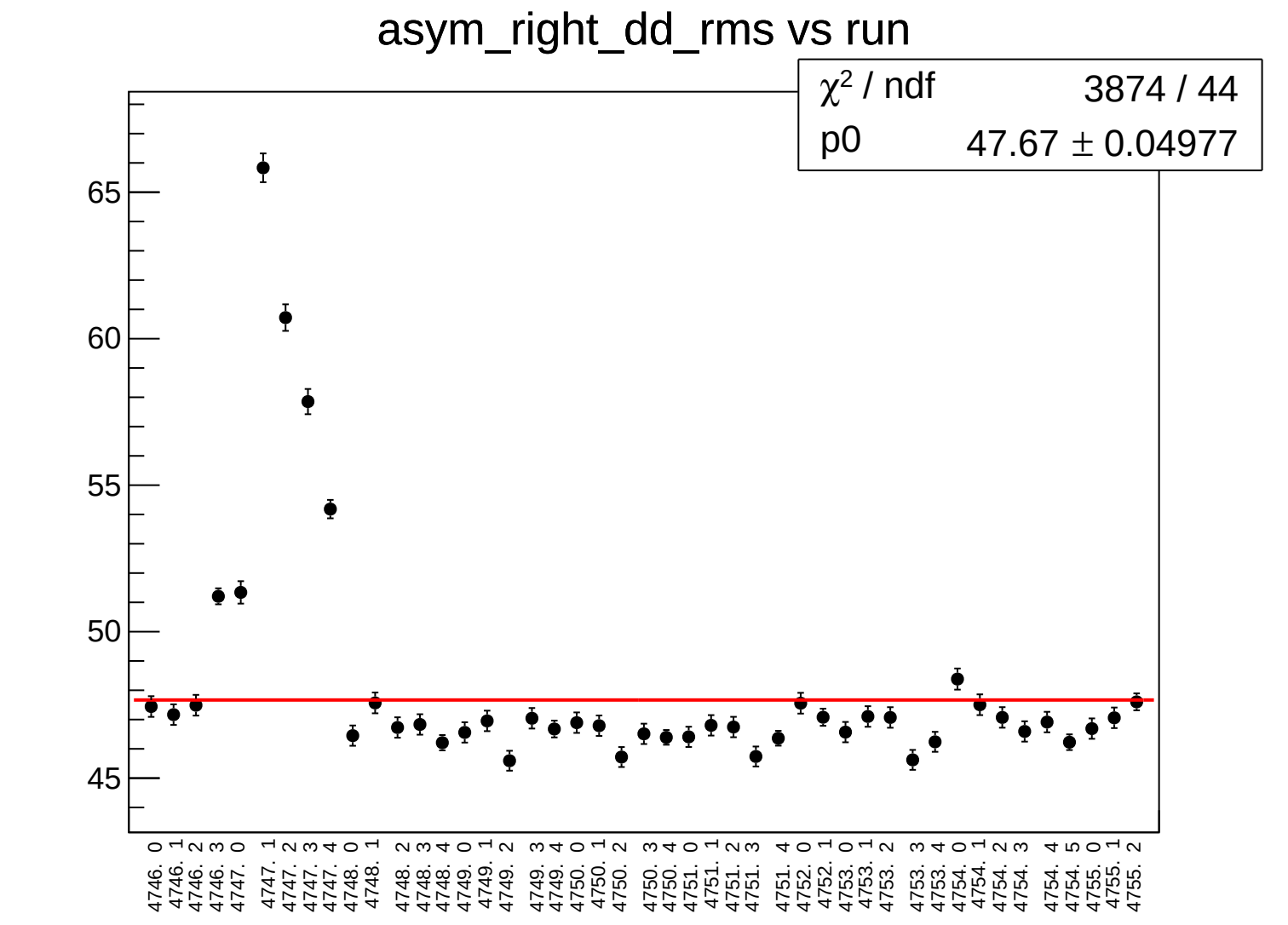

reg_asym_right_dd_rms vs run
χ² / ndf 29.3 / 44
p0 27.06 ± 0.0282
27.6
27.4
27.2
27
26.8
26.6
26.4
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2


asym_right_dd_correction_mean vs run
χ² / ndf 43.26 / 44
p0 −14.85 ± 57.76
pull
Entries 45
Mean −84.42
Std Dev 109.3
pull1D
Entries 45
Mean −0.01648
Std Dev 0.9804


asym_right_dd_correction_rms vs run
χ² / ndf 6780 / 44
p0 39.05 ± 0.04084
60
55
50
45
40
35
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2


asym_right_dd_mean vs run
χ² / ndf 50.1 / 44
p0 30.61 ± 70.39
pull
Entries 45
Mean −83.56
Std Dev 114.5


pull1D
Entries 45
Mean 0.01169
Std Dev 1.055


asym_right_dd_rms vs run
χ^2 / ndf 3874 / 44
p0 47.67 ± 0.04977
65
60
55
50
45
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
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4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
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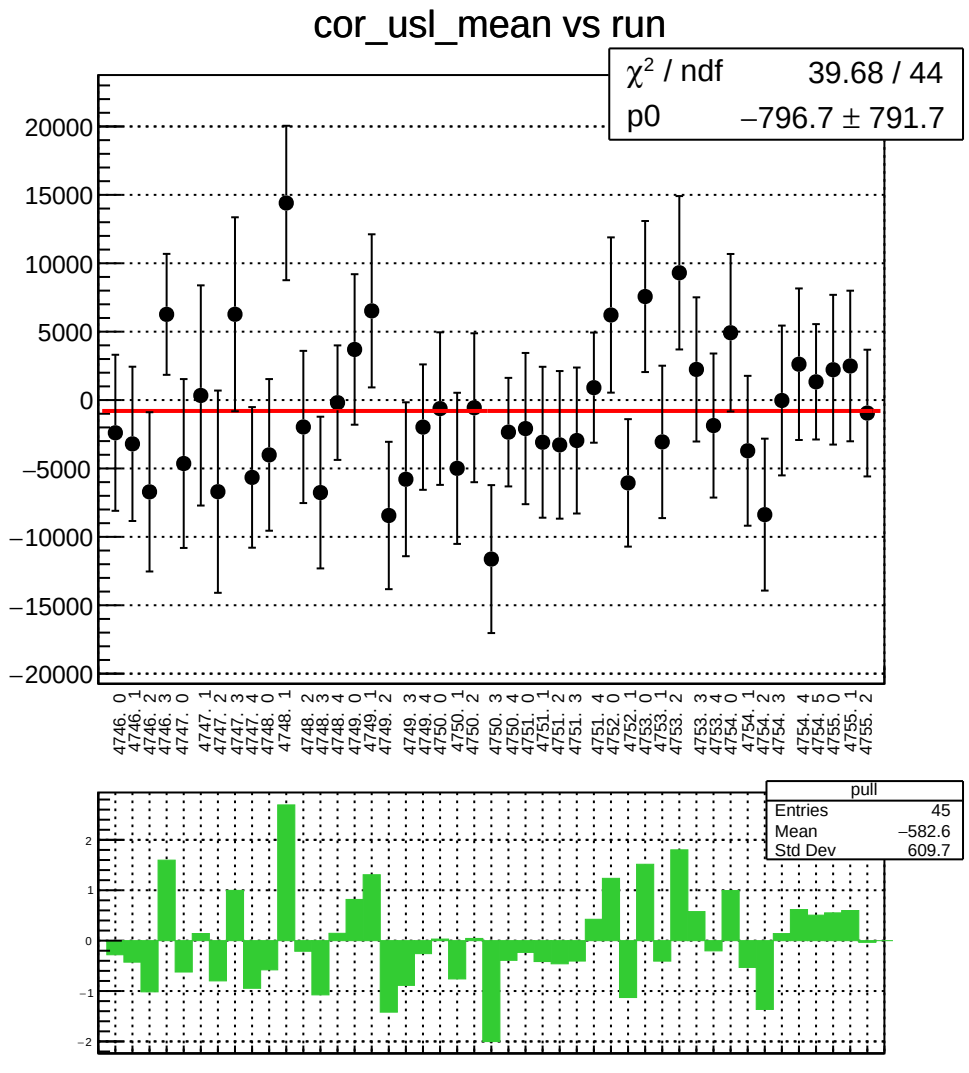
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2


cor_usl_mean vs run
χ² / ndf 39.68 / 44
p0 −796.7 ± 791.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
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4749. 2
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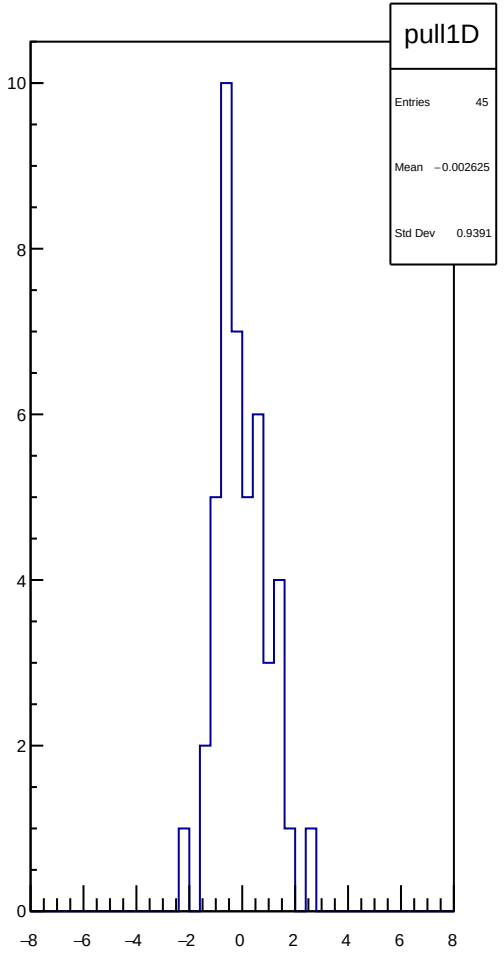
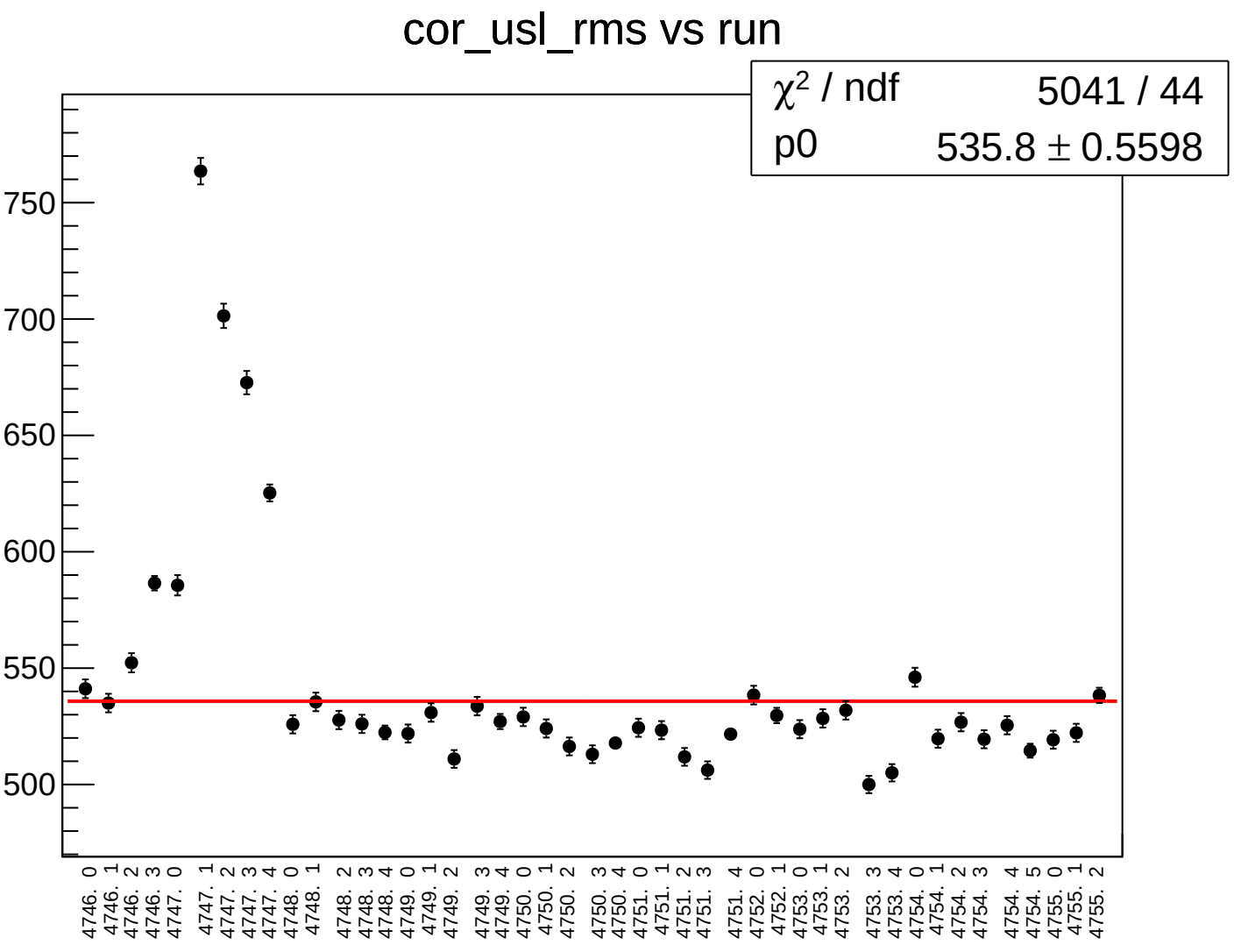
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −582.6
Std Dev 609.7
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.002625
Std Dev 0.9391
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_usl_rms vs run
χ² / ndf 5041 / 44
p0 535.8 ± 0.5598
750
700
650
600
550
500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
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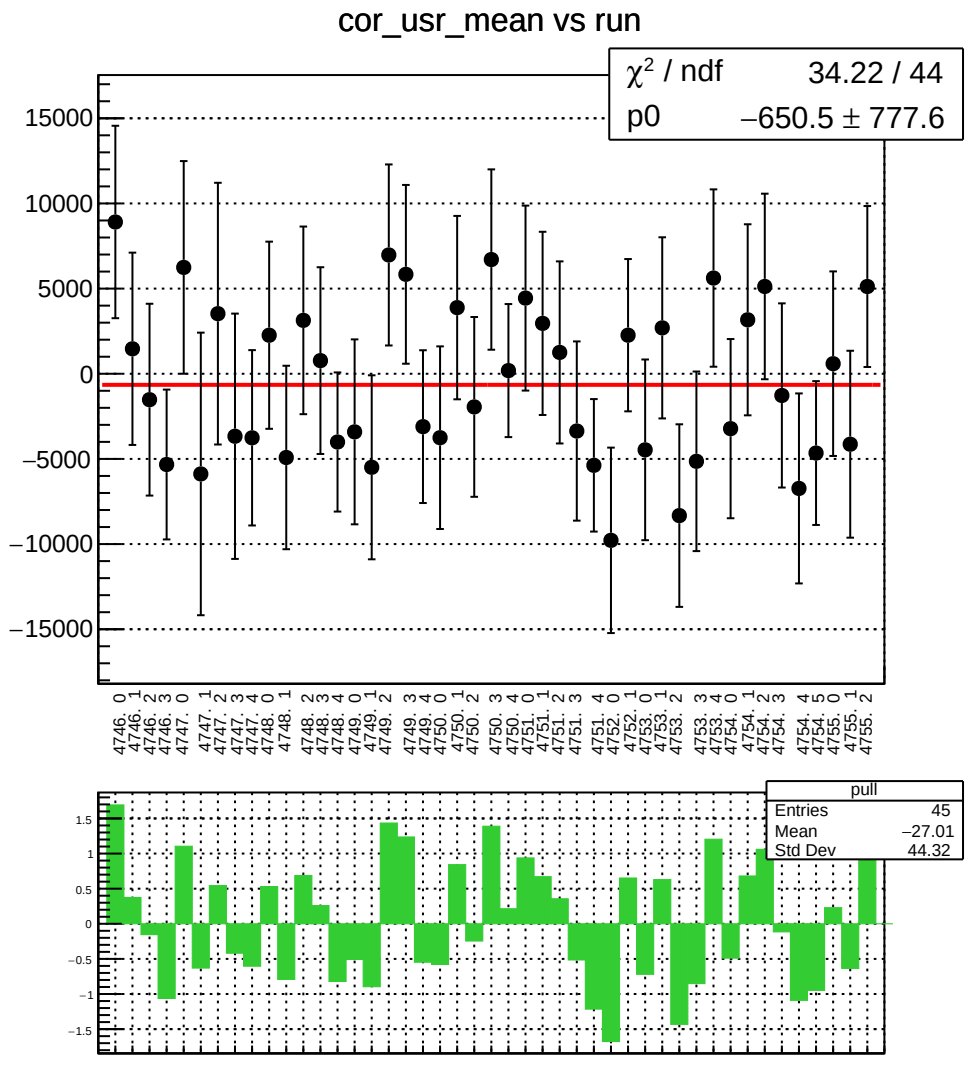
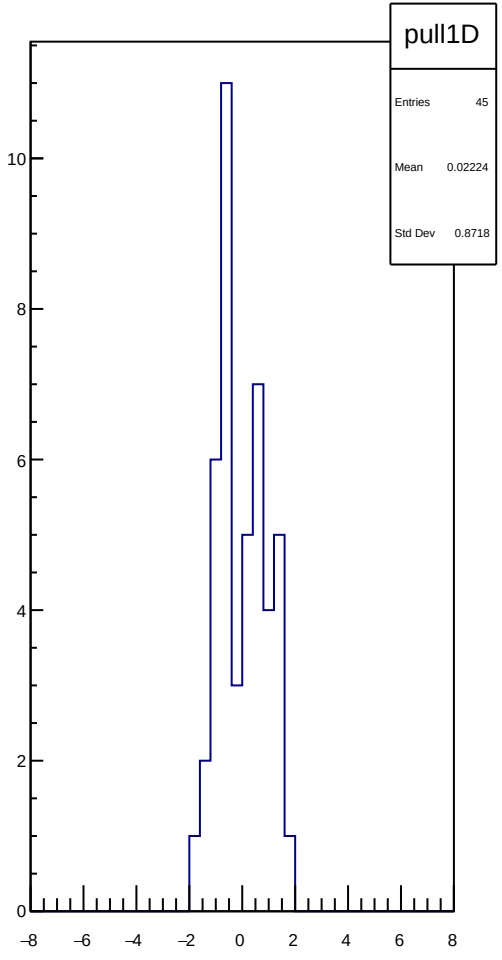
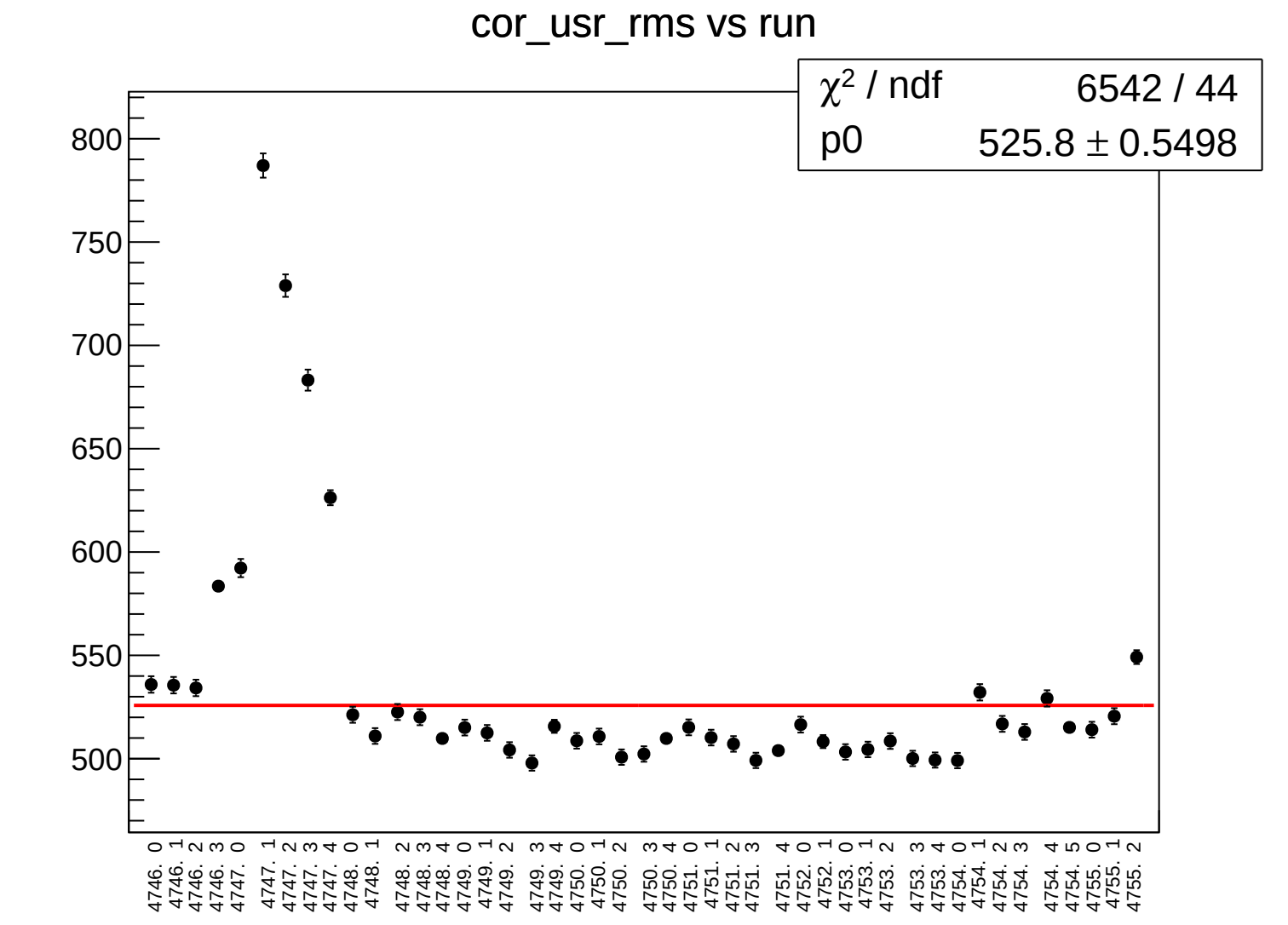
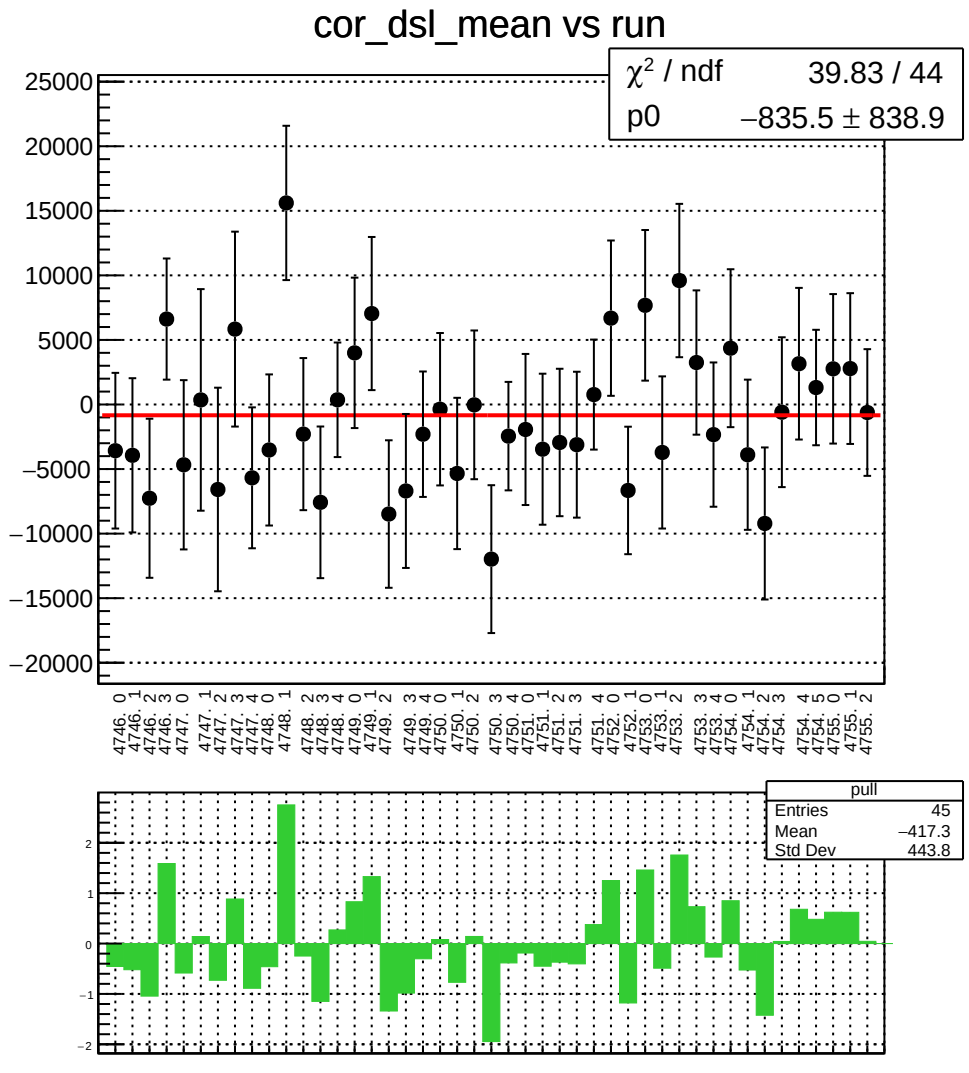
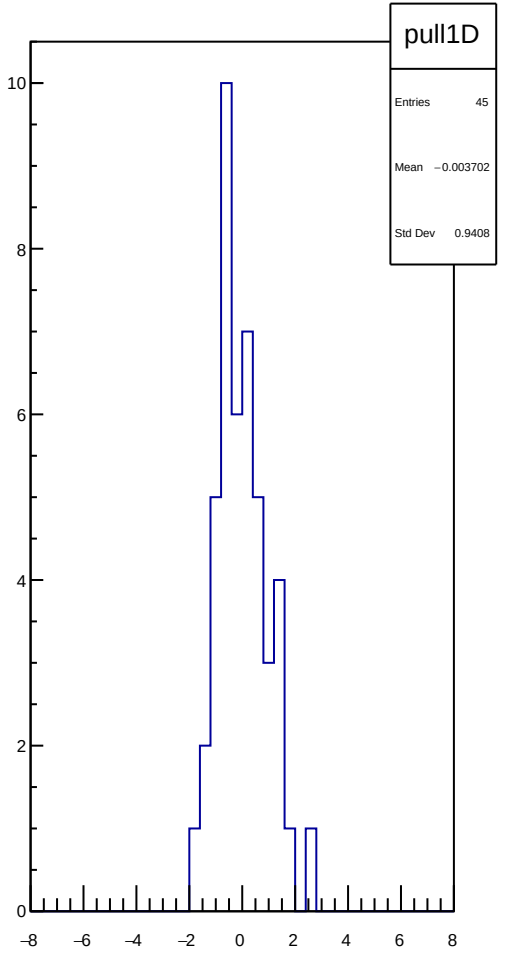
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

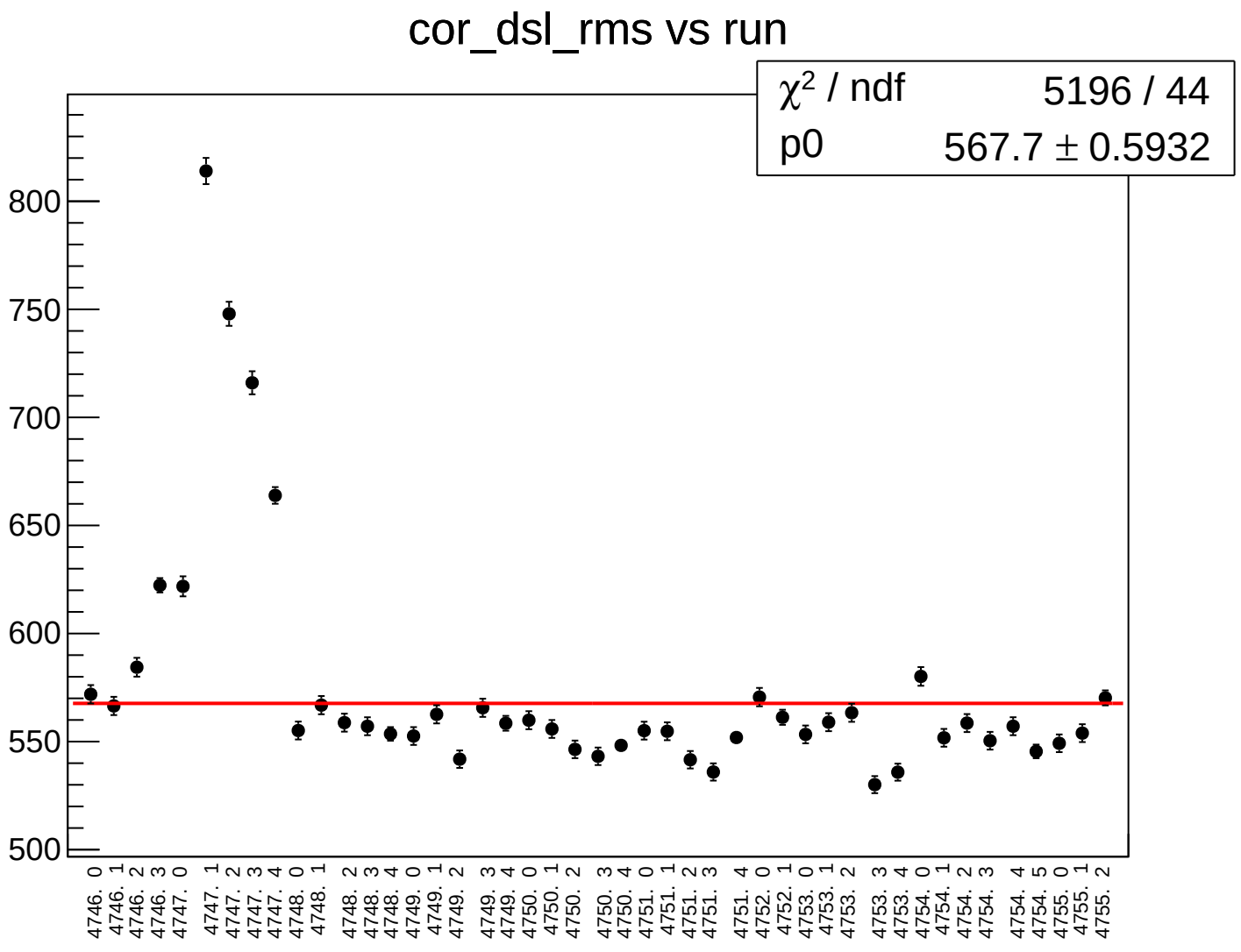

cor_usr_mean vs run
χ² / ndf 34.22 / 44
p0 −650.5 ± 777.6
15000
10000
5000
0
−5000
−10000
−15000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −27.01
Std Dev 44.32
1.5
1
0.5
0
−0.5
−1
−1.5

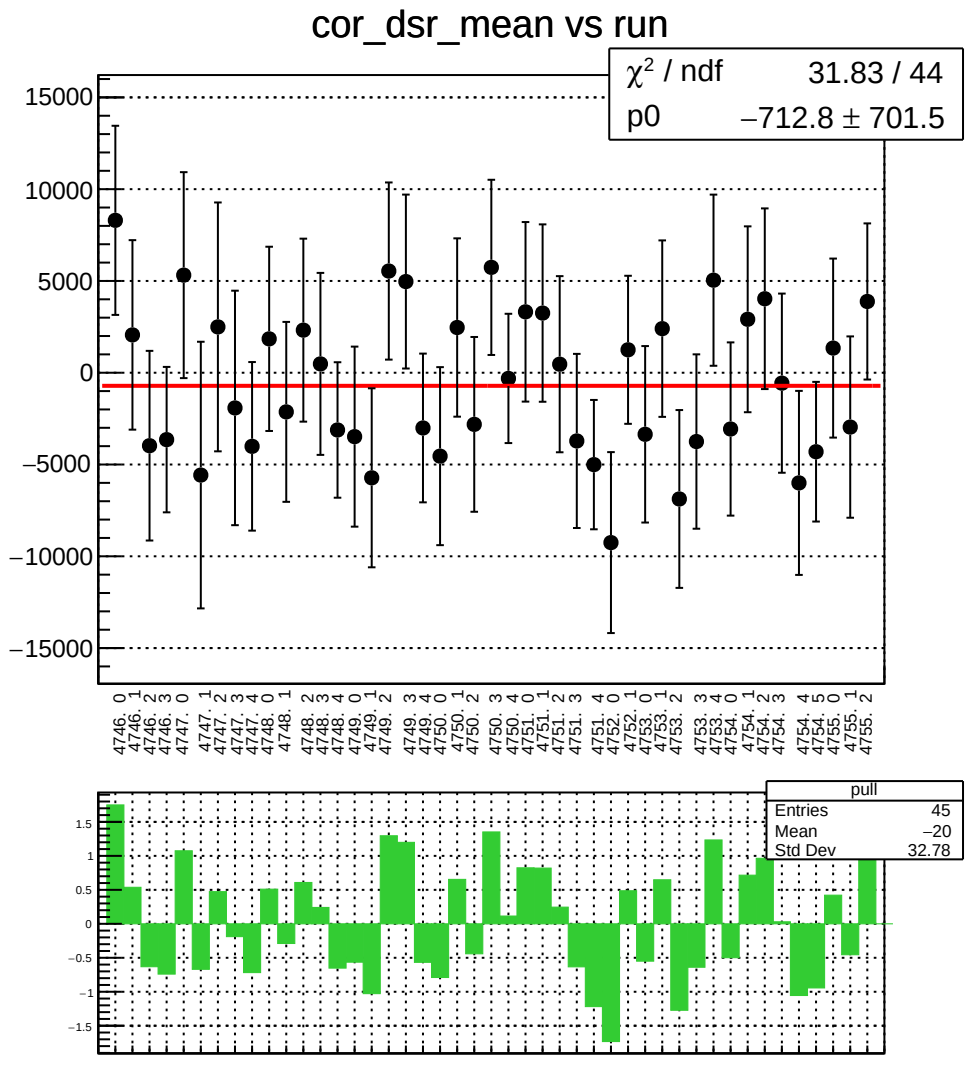

pull1D
Entries 45
Mean 0.02224
Std Dev 0.8718
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

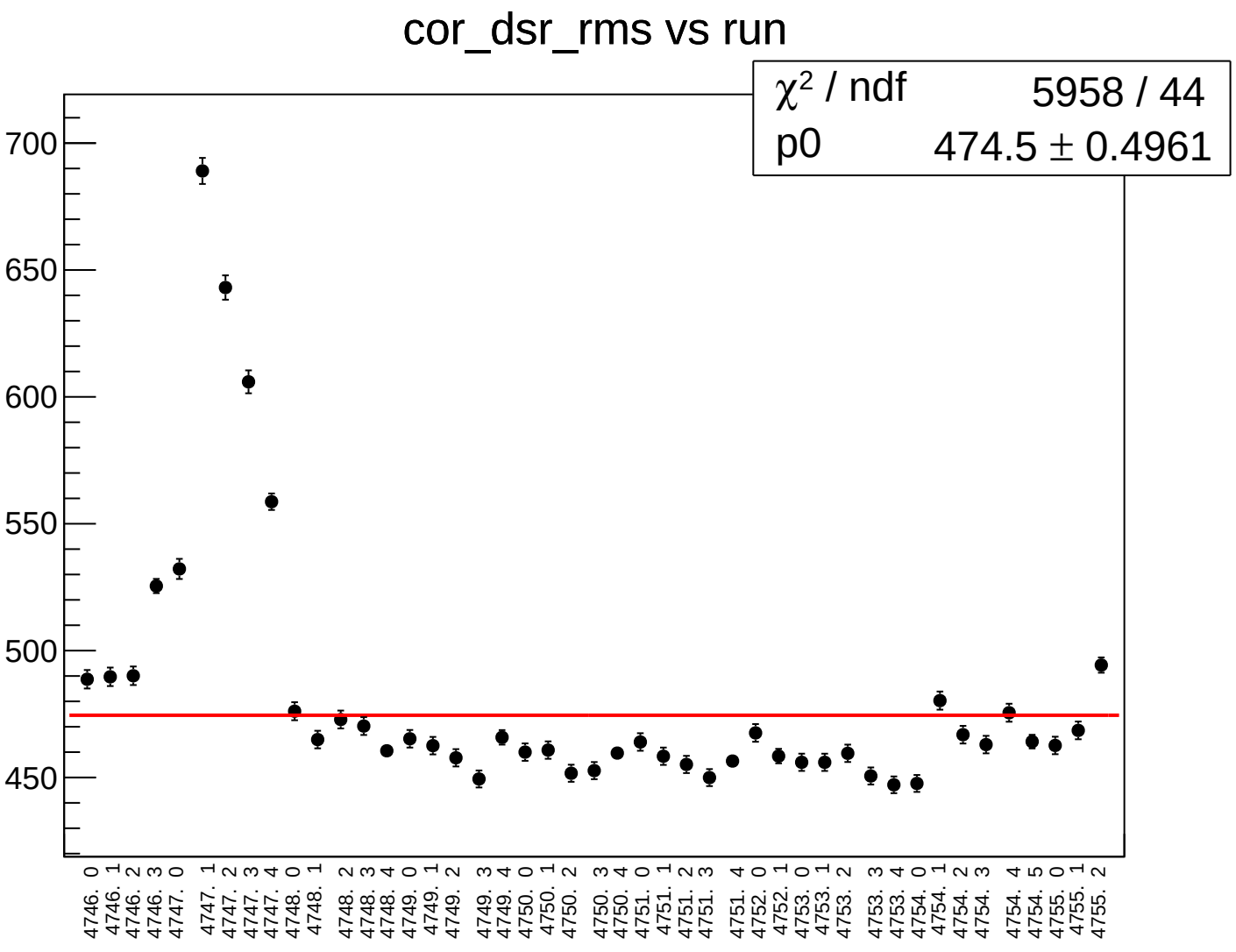

cor_usr_rms vs run
χ² / ndf 6542 / 44
p0 525.8 ± 0.5498
800
750
700
650
600
550
500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

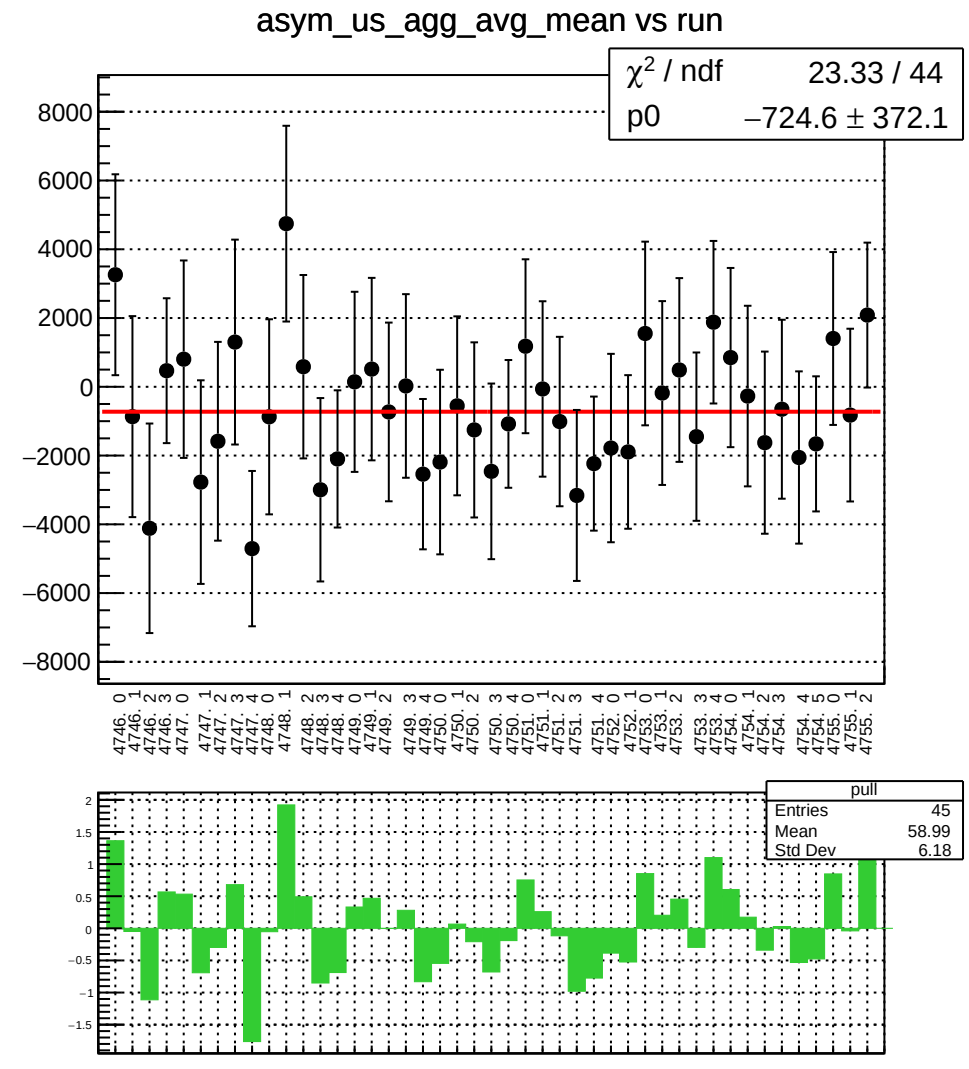

cor_dsl_mean vs run
χ² / ndf 39.83 / 44
p0 −835.5 ± 838.9
pull
Entries 45
Mean −417.3
Std Dev 443.8

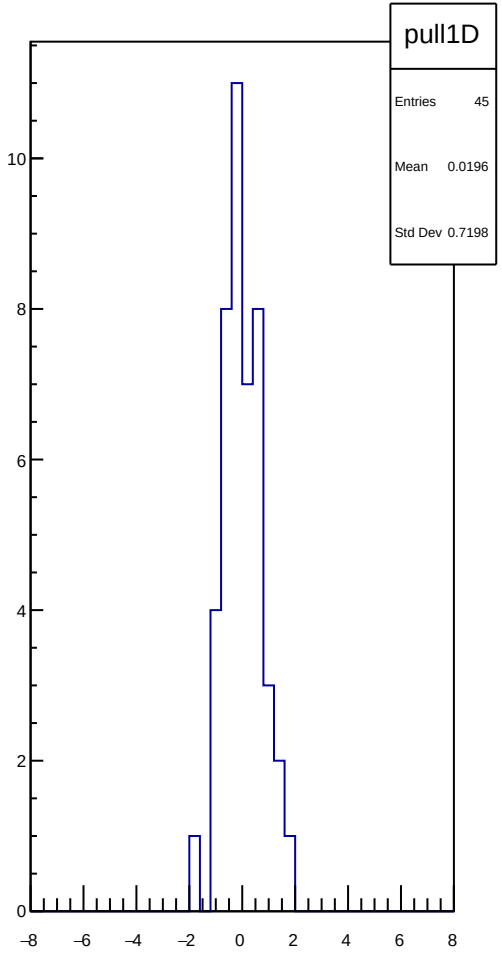

pull1D
Entries 45
Mean −0.003702
Std Dev 0.9408

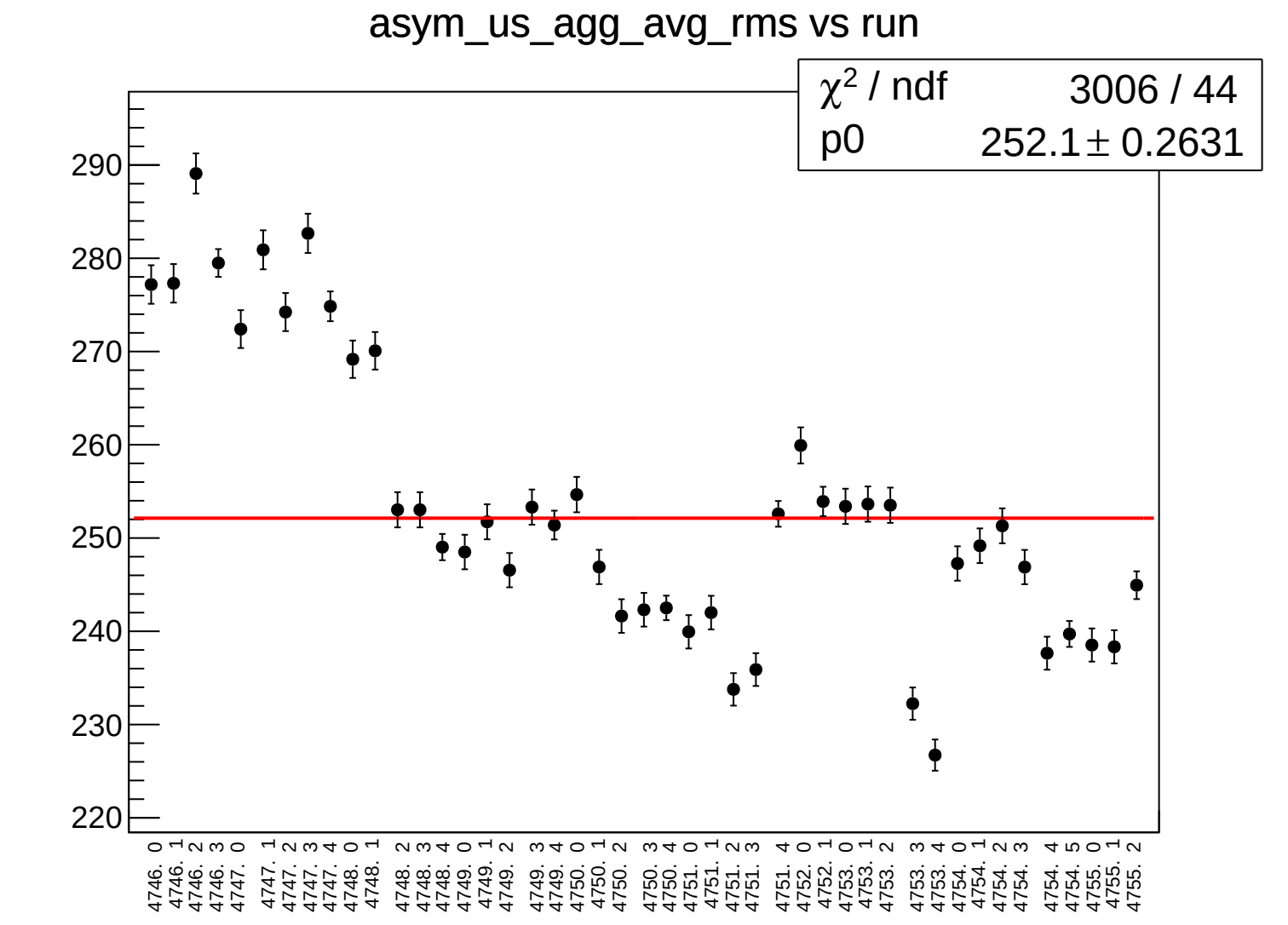

cor_dsl_rms vs run
χ² / ndf 5196 / 44
p0 567.7 ± 0.5932
800
750
700
650
600
550
500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

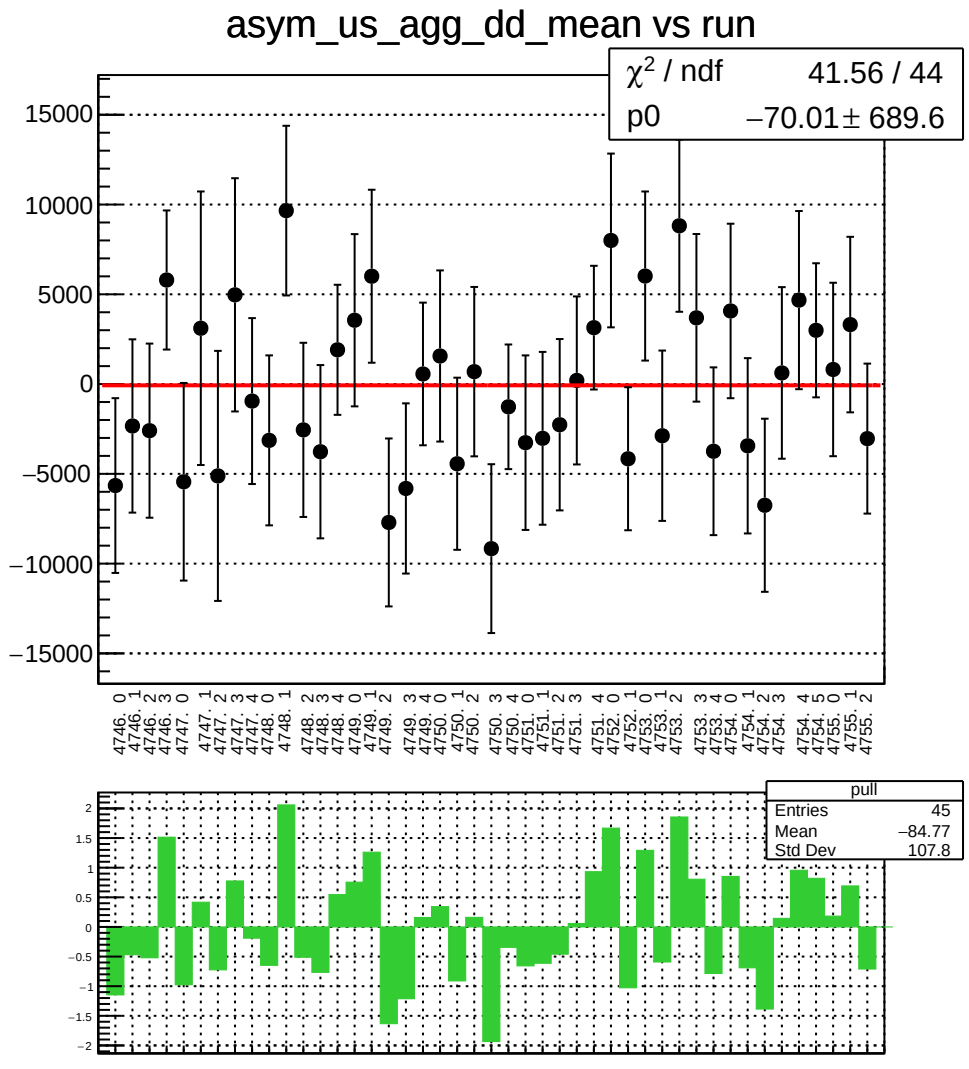

cor_dsr_mean vs run
χ² / ndf 31.83 / 44
p0 −712.8 ± 701.5
15000
10000
5000
0
−5000
−10000
−15000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −20
Std Dev 32.78
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.02229
Std Dev 0.8408
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

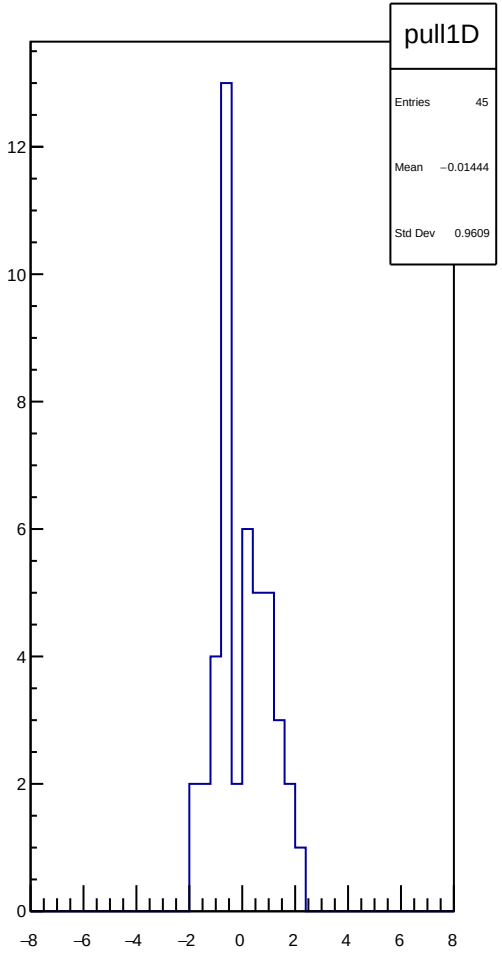

cor_dsr_rms vs run
χ² / ndf 5958 / 44
p0 474.5 ± 0.4961
700
650
600
550
500
450
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

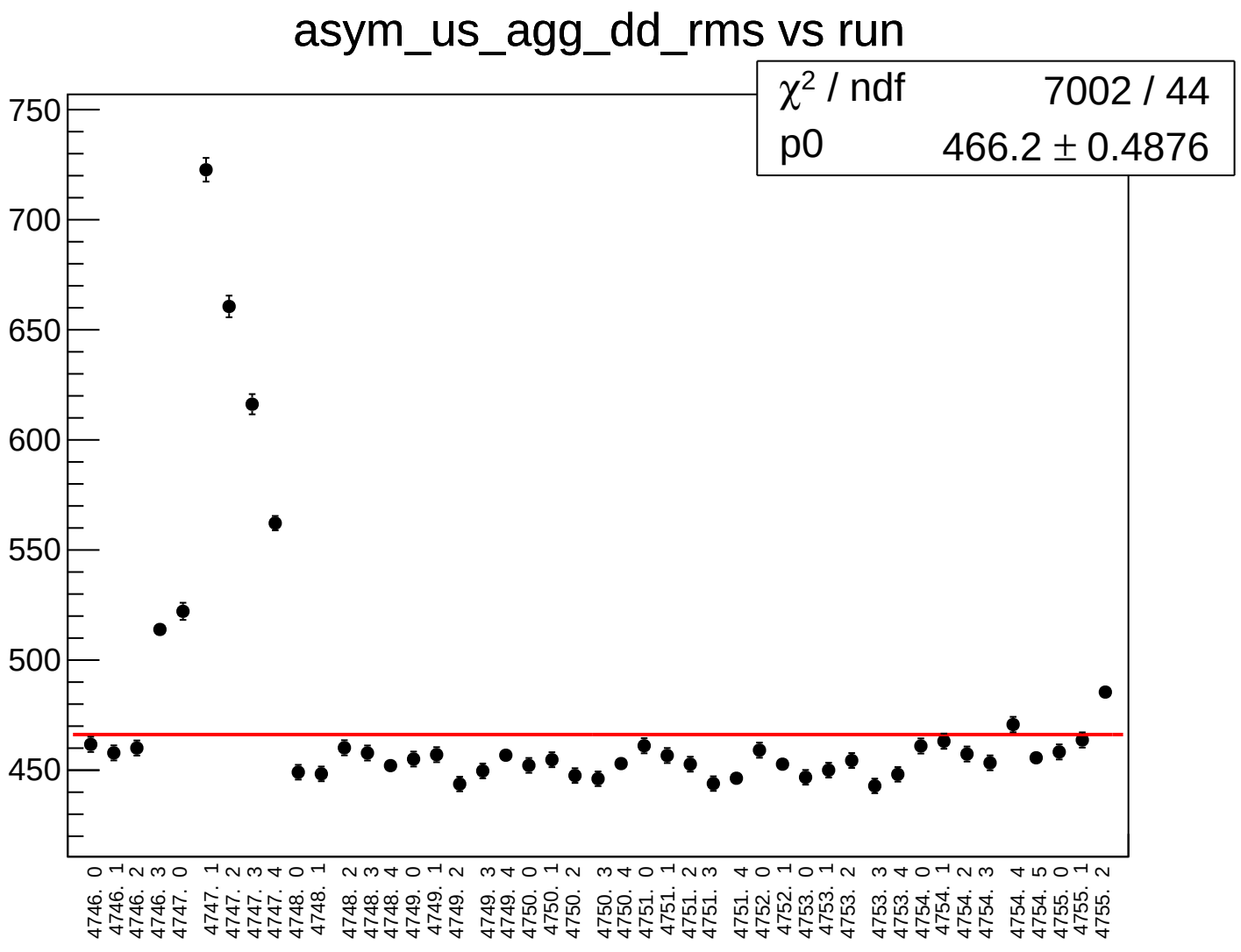

asym_us_agg_avg_mean vs run
χ² / ndf 23.33 / 44
p0 −724.6 ± 372.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 58.99
Std Dev 6.18
2
1.5
1
0.5
0
−0.5
−1
−1.5

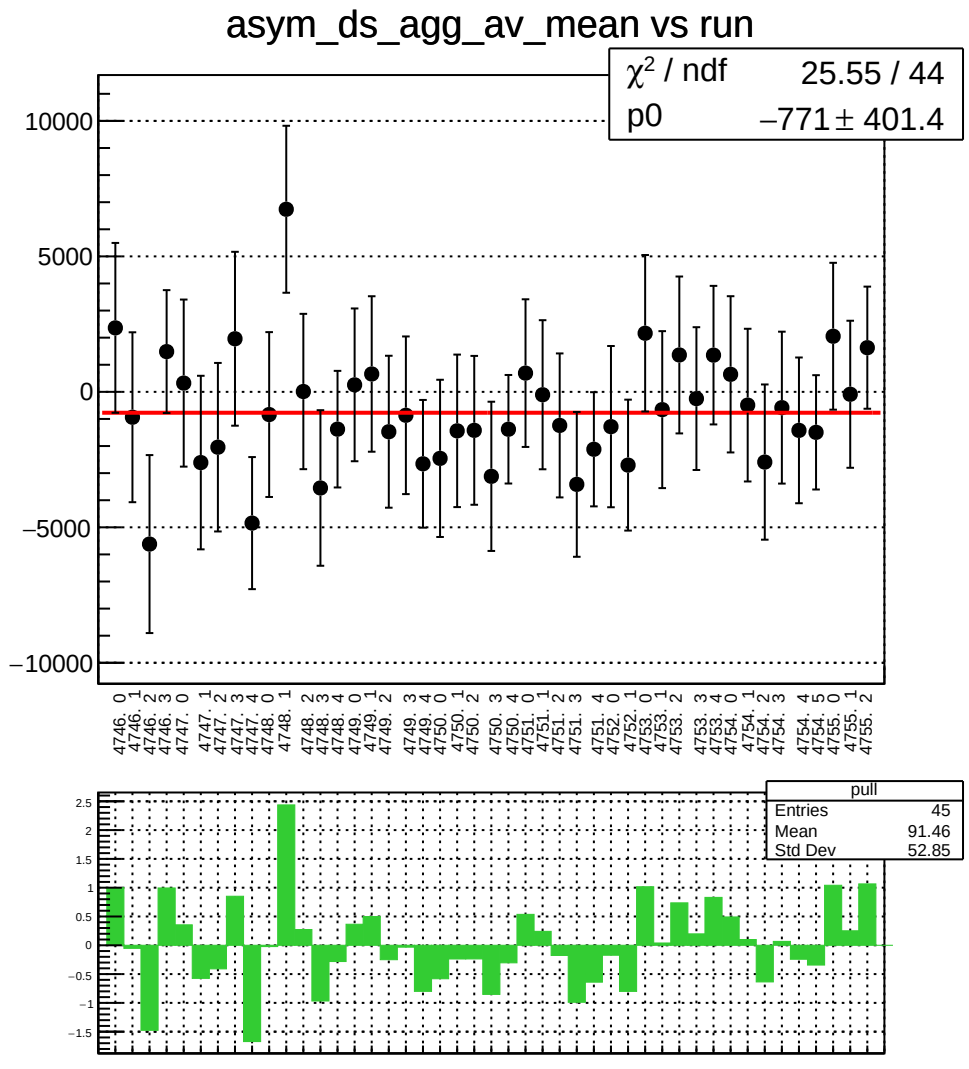

pull1D
Entries 45
Mean 0.0196
Std Dev 0.7198
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

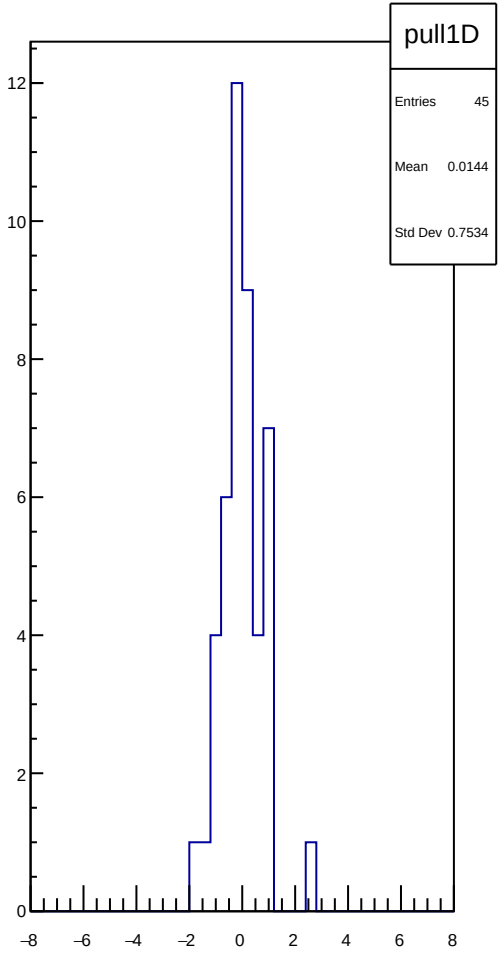

asym_us_agg_avg_rms vs run
χ^2 / ndf 3006 / 44
p0 252.1 ± 0.2631
290
280
270
260
250
240
230
220
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

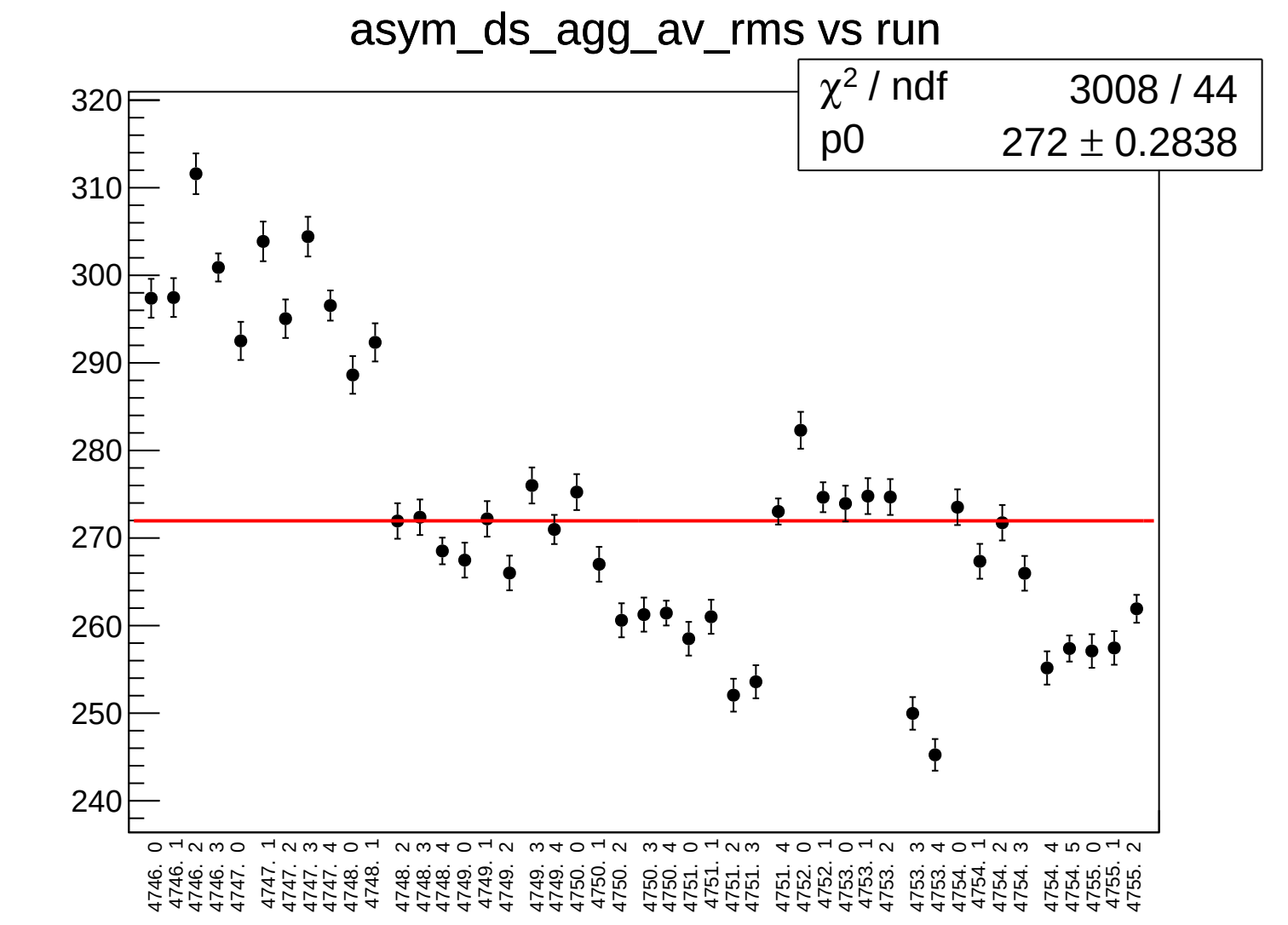

asym_us_agg_dd_mean vs run
χ² / ndf 41.56 / 44
p0 −70.01 ± 689.6
15000
10000
5000
0
−5000
−10000
−15000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −84.77
Std Dev 107.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

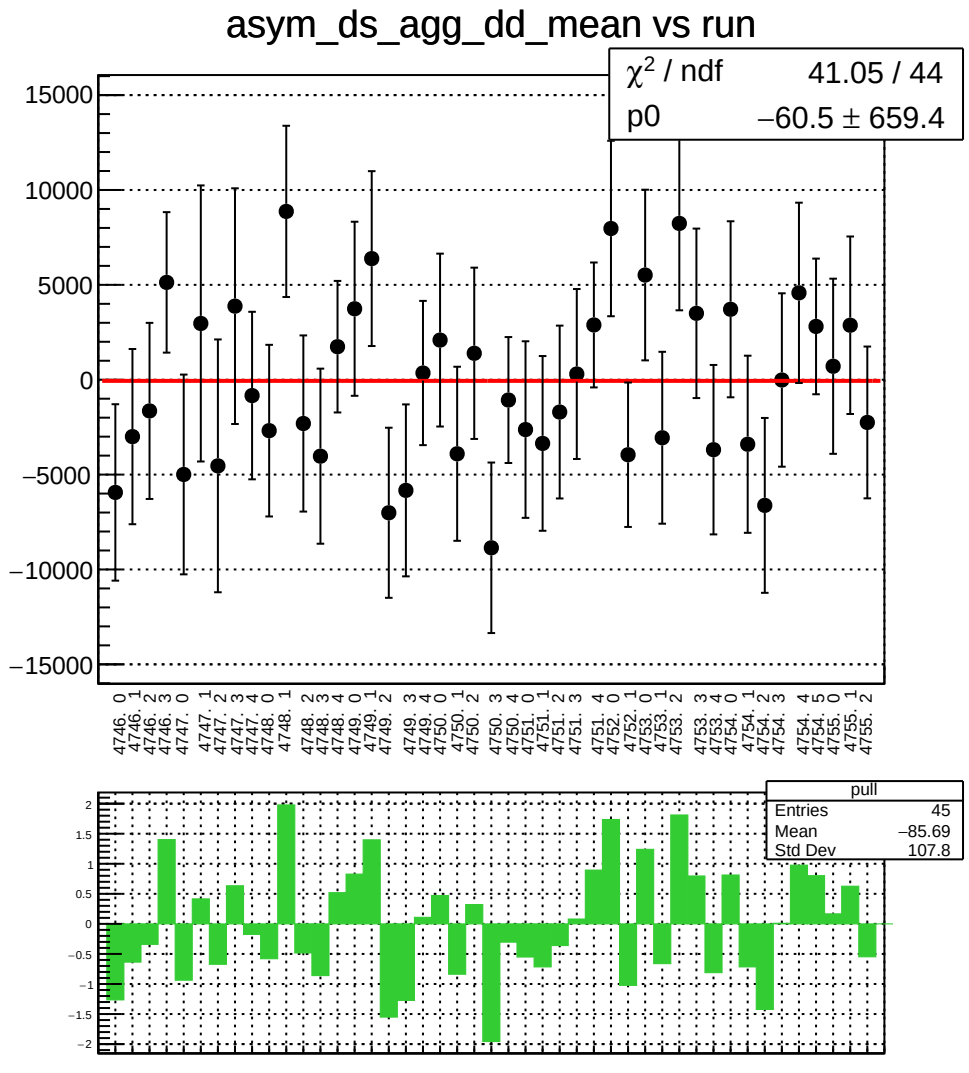

pull1D
Entries 45
Mean −0.01444
Std Dev 0.9609
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

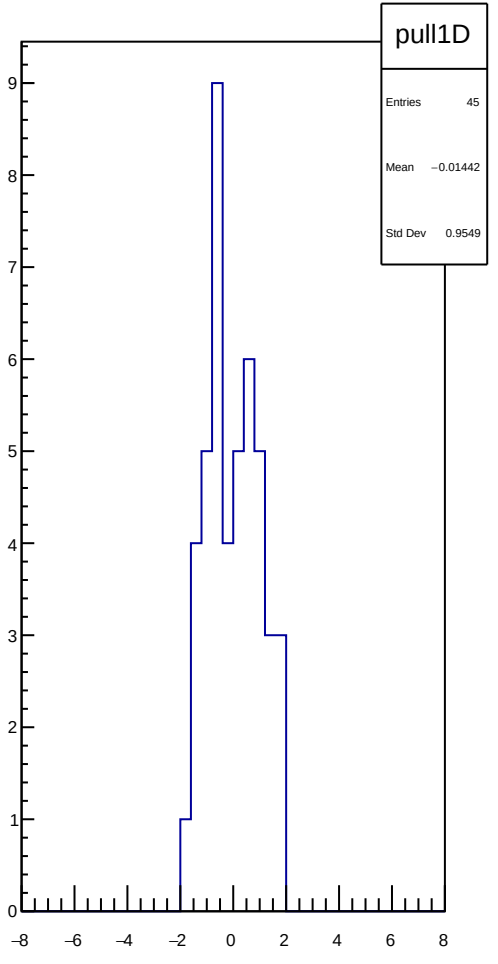

asym_us_agg_dd_rms vs run
χ² / ndf 7002 / 44
p0 466.2 ± 0.4876
750
700
650
600
550
500
450
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

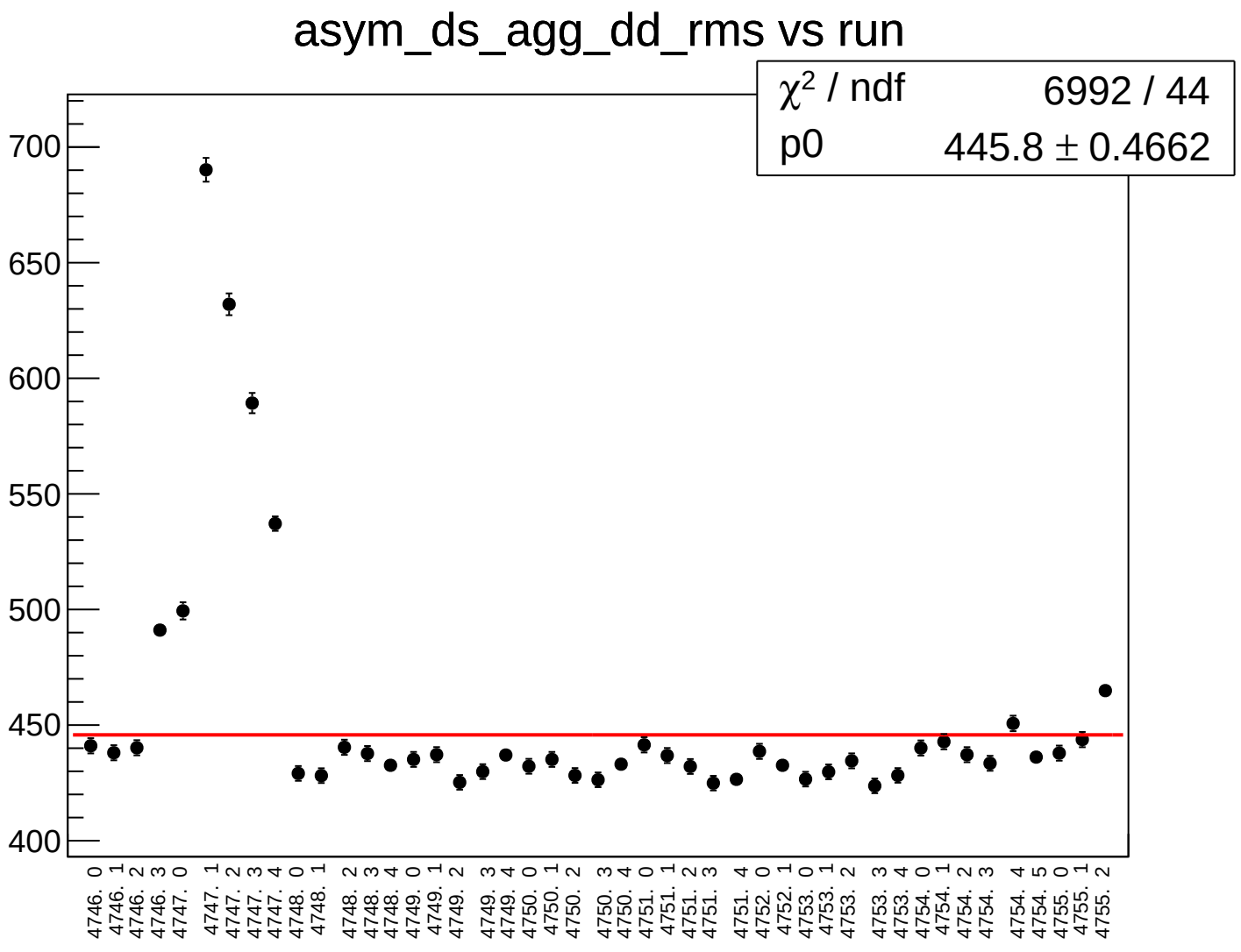

asym_ds_agg_av_mean vs run
χ² / ndf 25.55 / 44
p0 −771 ± 401.4
10000
5000
0
−5000
−10000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 91.46
Std Dev 52.85
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

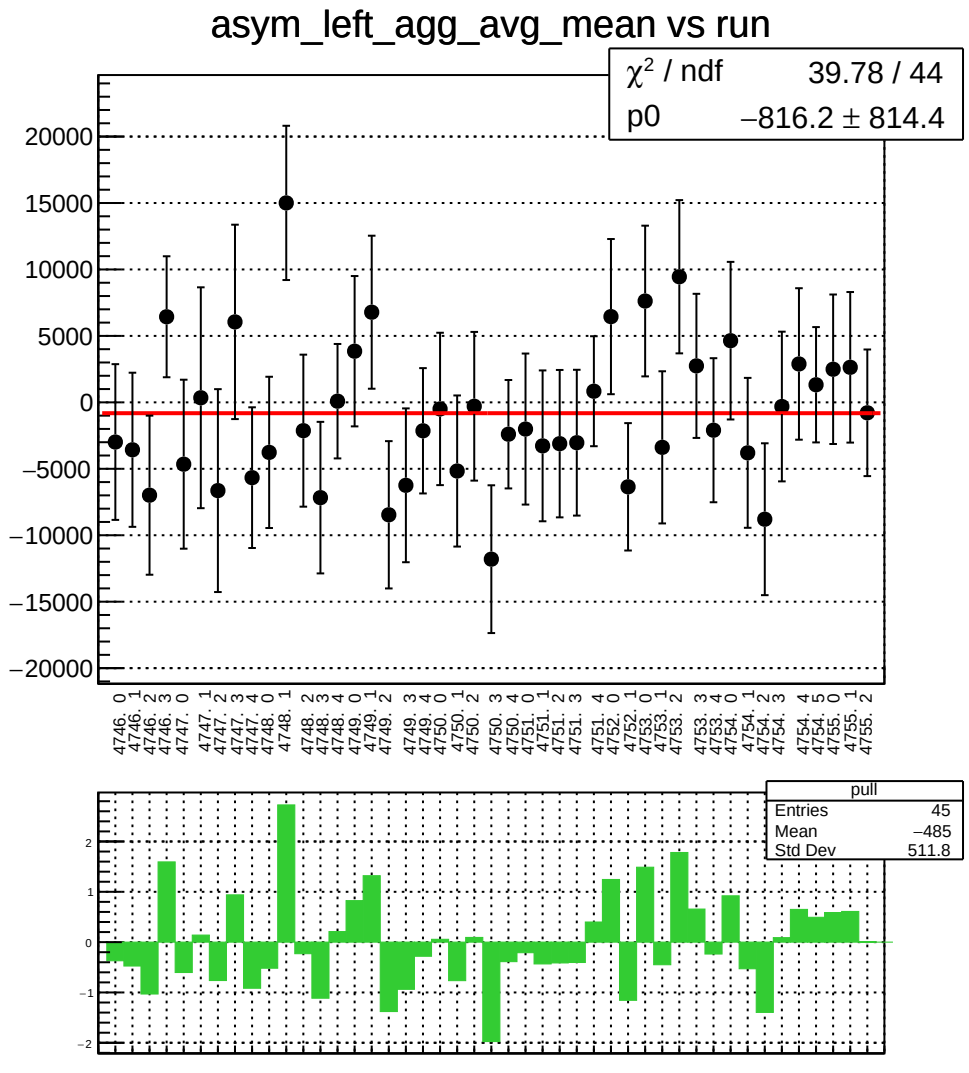

pull1D
Entries 45
Mean 0.0144
Std Dev 0.7534
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

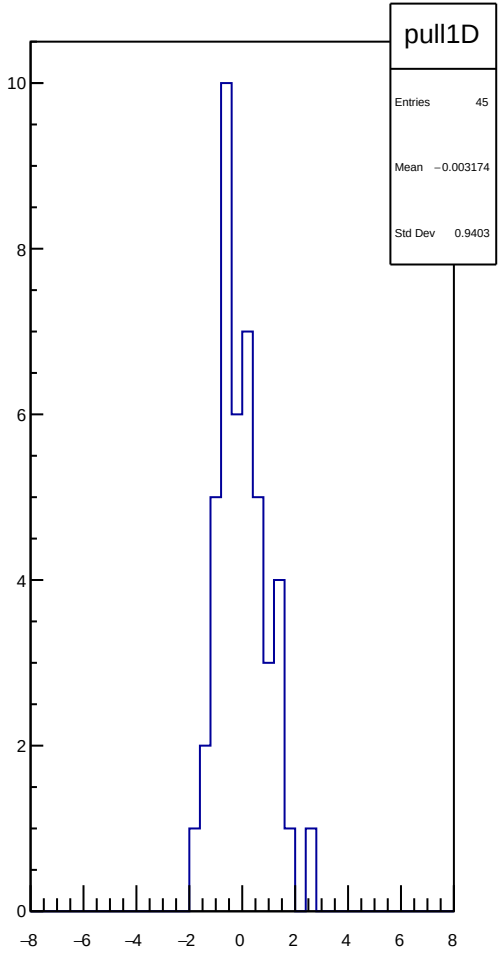

asym_ds_agg_av_rms vs run
χ² / ndf 3008 / 44
p0 272 ± 0.2838
320
310
300
290
280
270
260
250
240
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

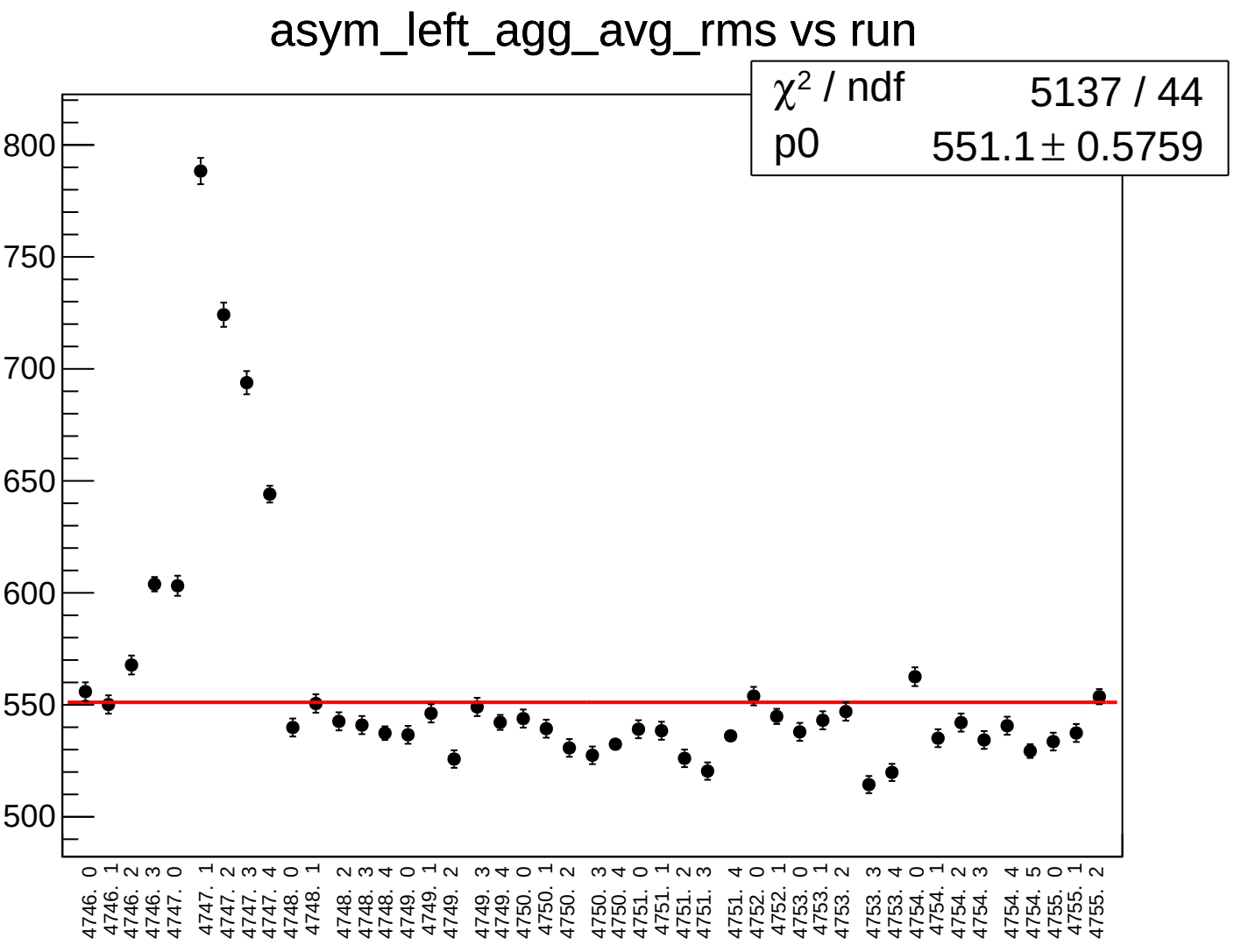

asym_ds_agg_dd_mean vs run
χ² / ndf 41.05 / 44
p0 −60.5 ± 659.4
15000
10000
5000
0
−5000
−10000
−15000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −85.69
Std Dev 107.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

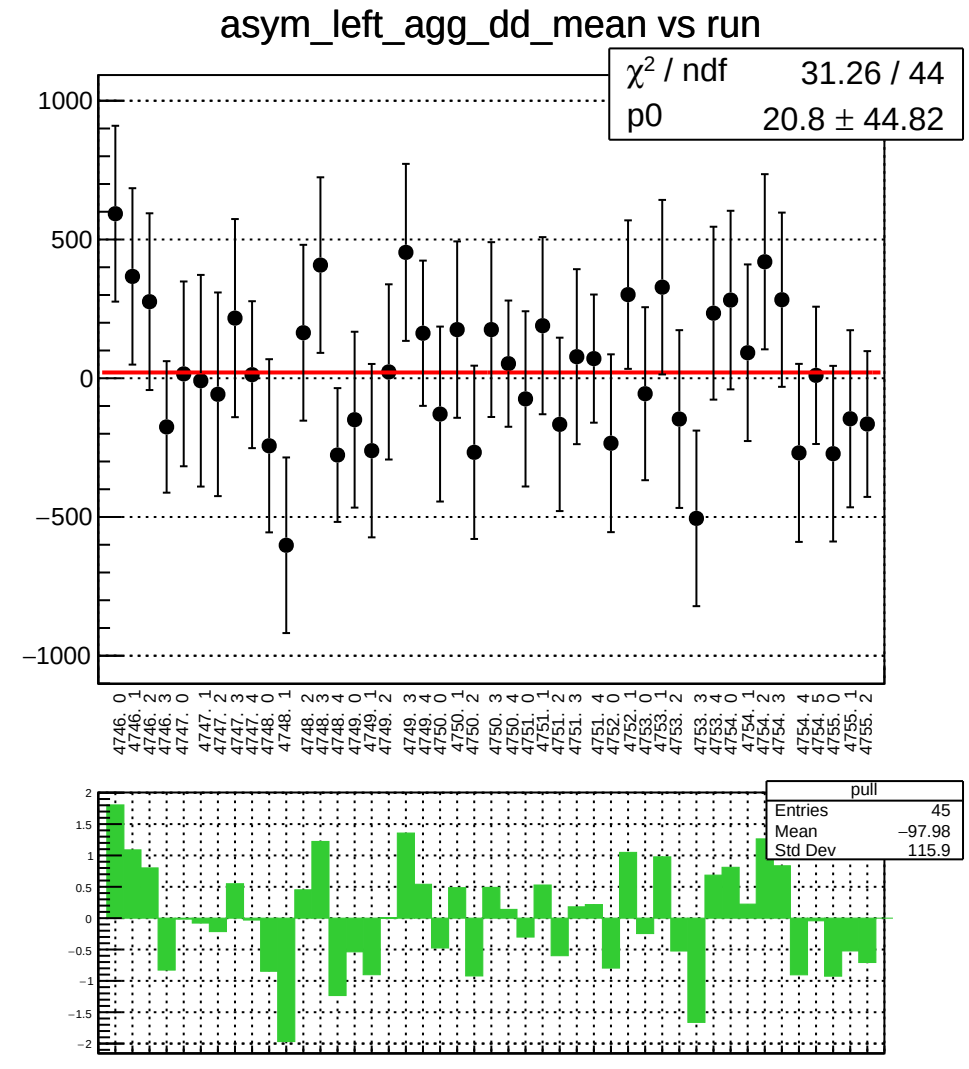

pull1D
Entries 45
Mean −0.01442
Std Dev 0.9549
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

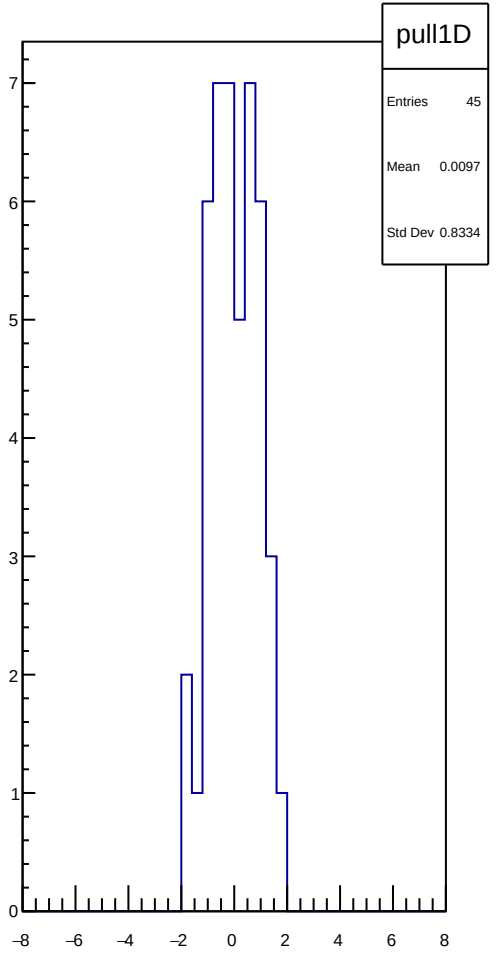

asym_ds_agg_dd_rms vs run
χ² / ndf 6992 / 44
p0 445.8 ± 0.4662
700
650
600
550
500
450
400
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

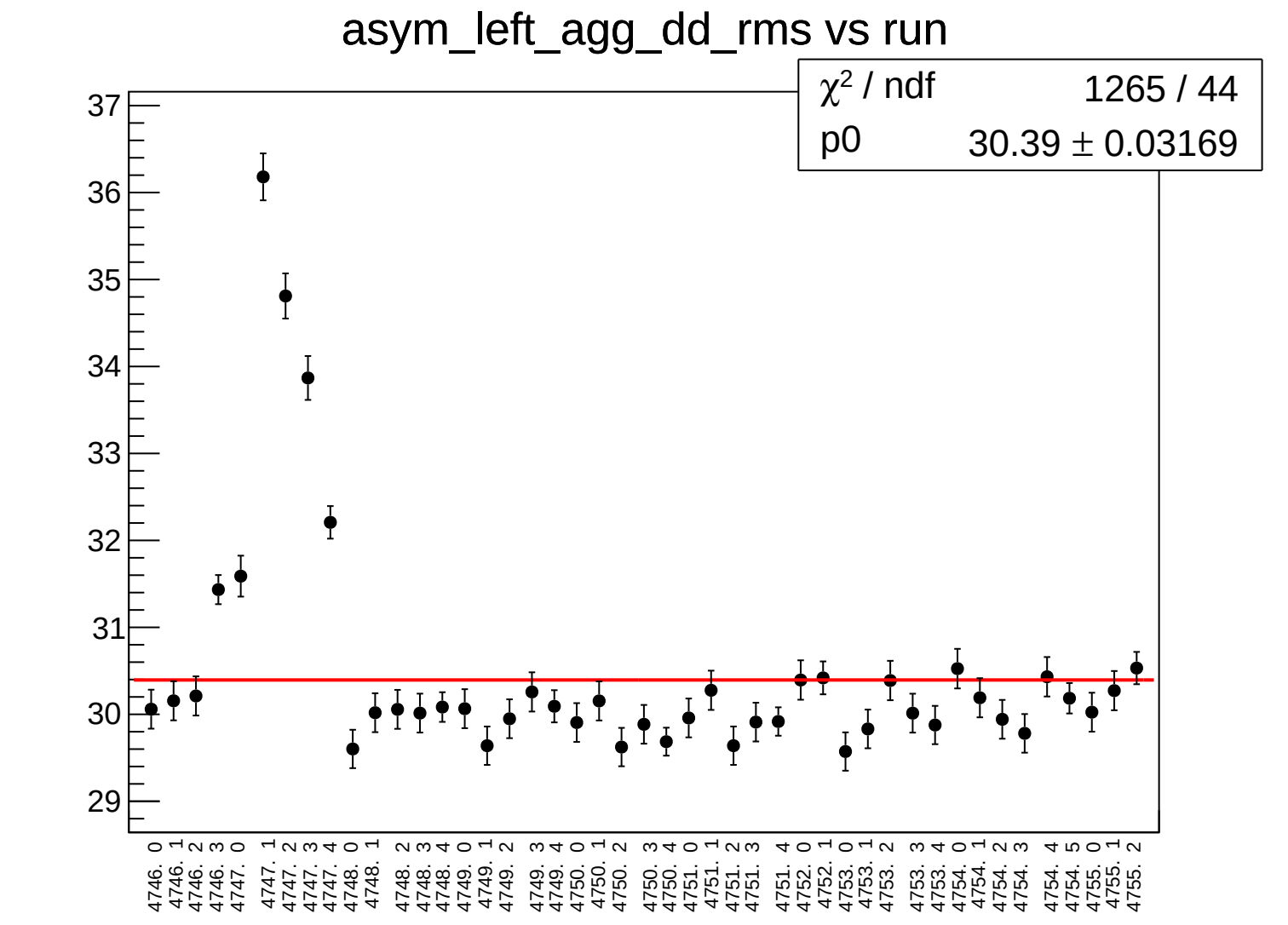

asym_left_agg_avg_mean vs run
χ² / ndf 39.78 / 44
p0 −816.2 ± 814.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −485
Std Dev 511.8
2
1
0
−1
−2

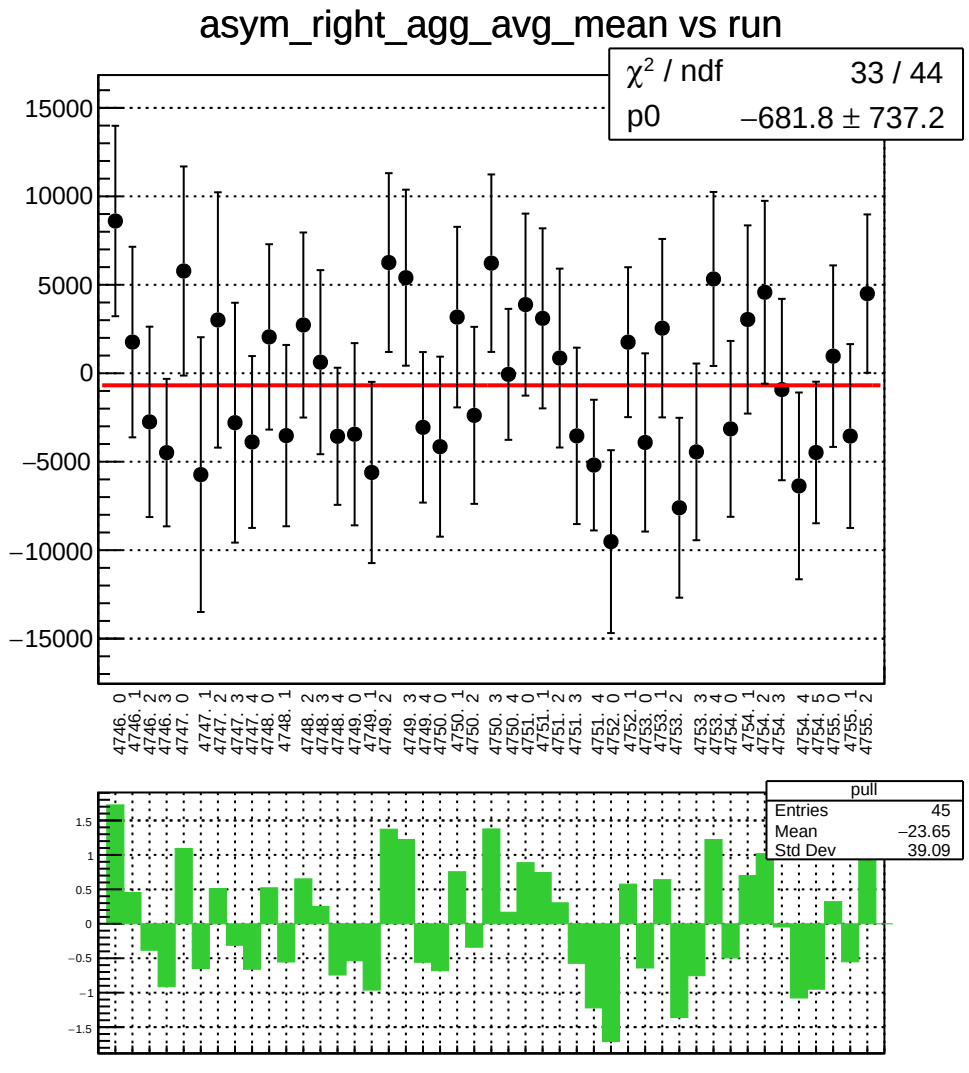

pull1D
Entries 45
Mean −0.003174
Std Dev 0.9403
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

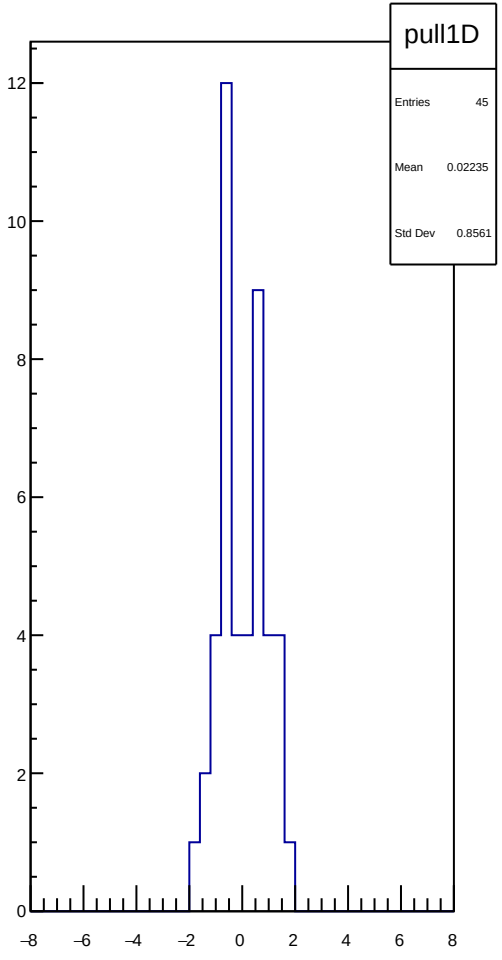

asym_left_agg_avg_rms vs run
χ² / ndf 5137 / 44
p0 551.1 ± 0.5759
800
750
700
650
600
550
500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

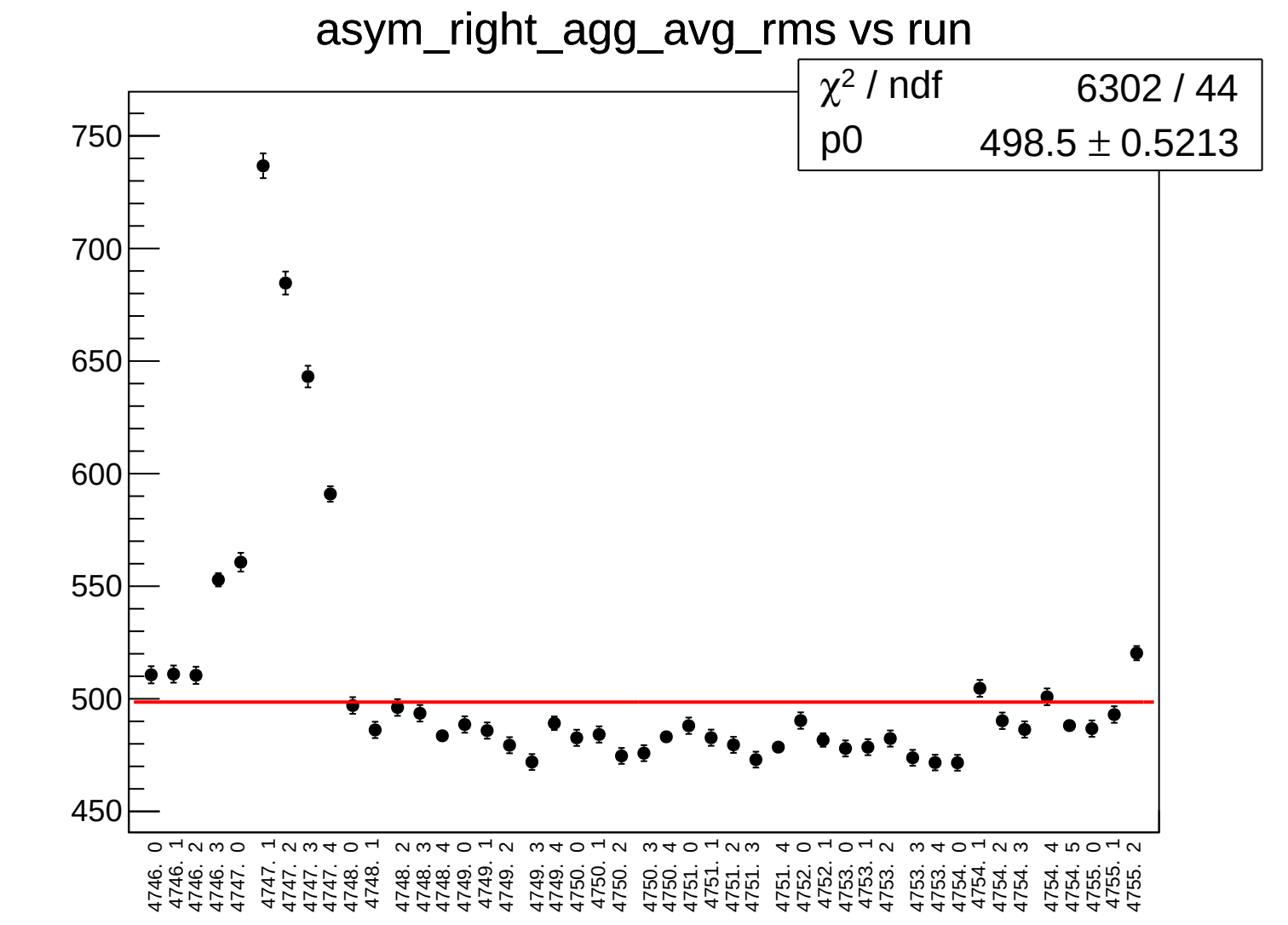

asym_left_agg_dd_mean vs run
χ² / ndf 31.26 / 44
p0 20.8 ± 44.82
1000
500
0
−500
−1000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −97.98
Std Dev 115.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

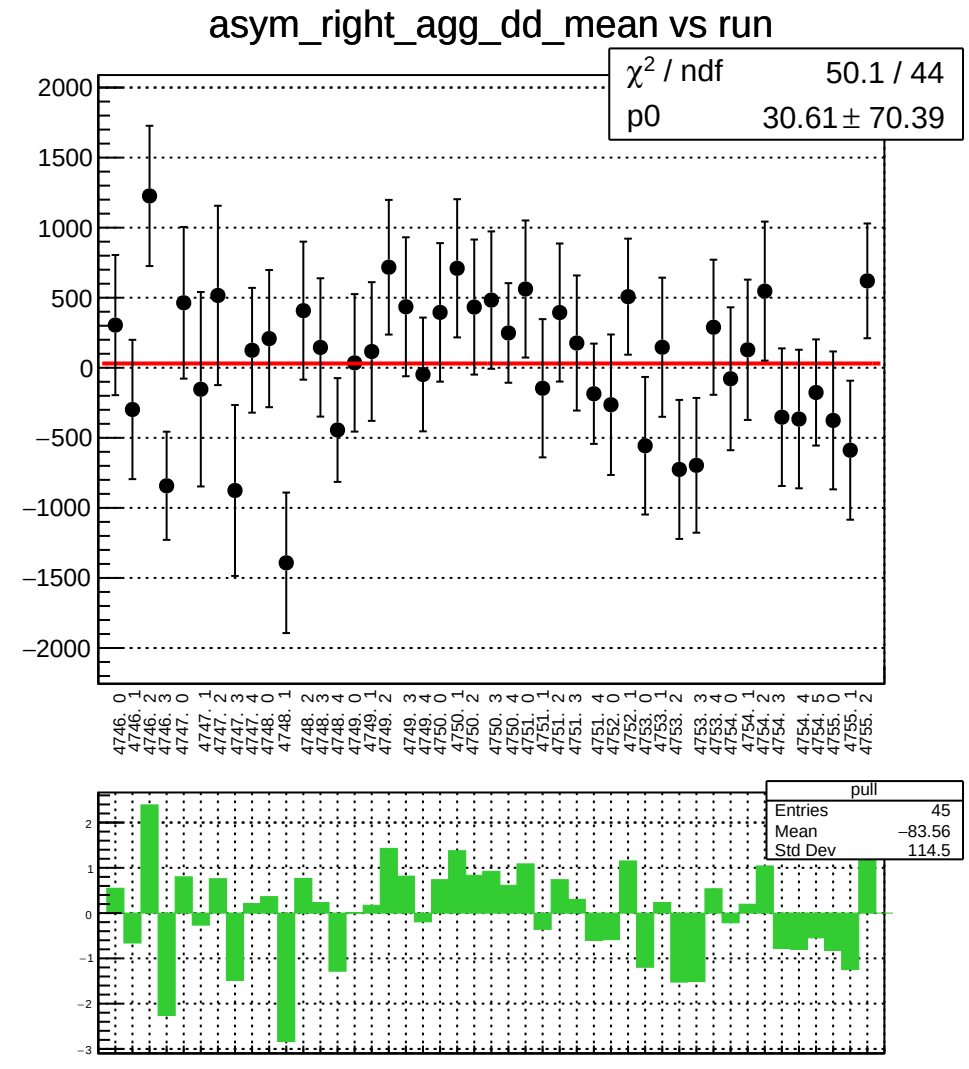

pull1D
Entries 45
Mean 0.0097
Std Dev 0.8334
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

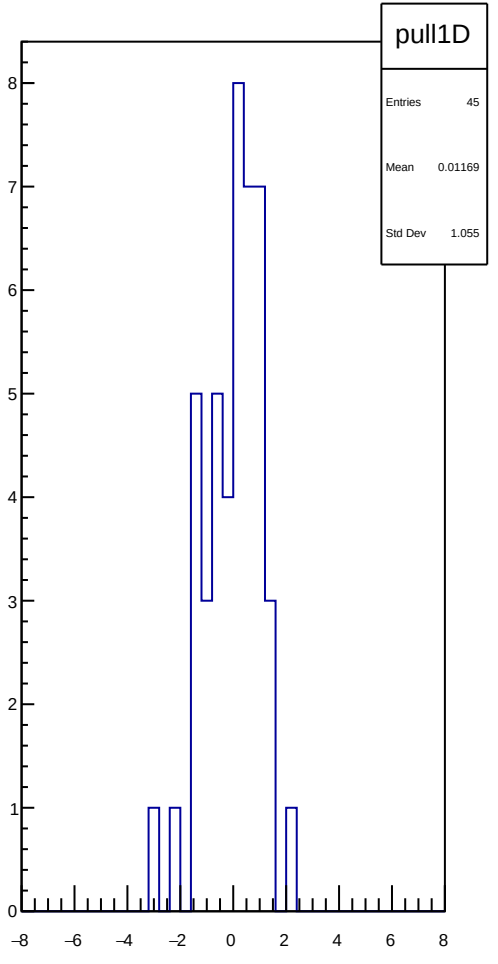

asym_left_agg_dd_rms vs run
χ² / ndf 1265 / 44
p0 30.39 ± 0.03169
37
36
35
34
33
32
31
30
29
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

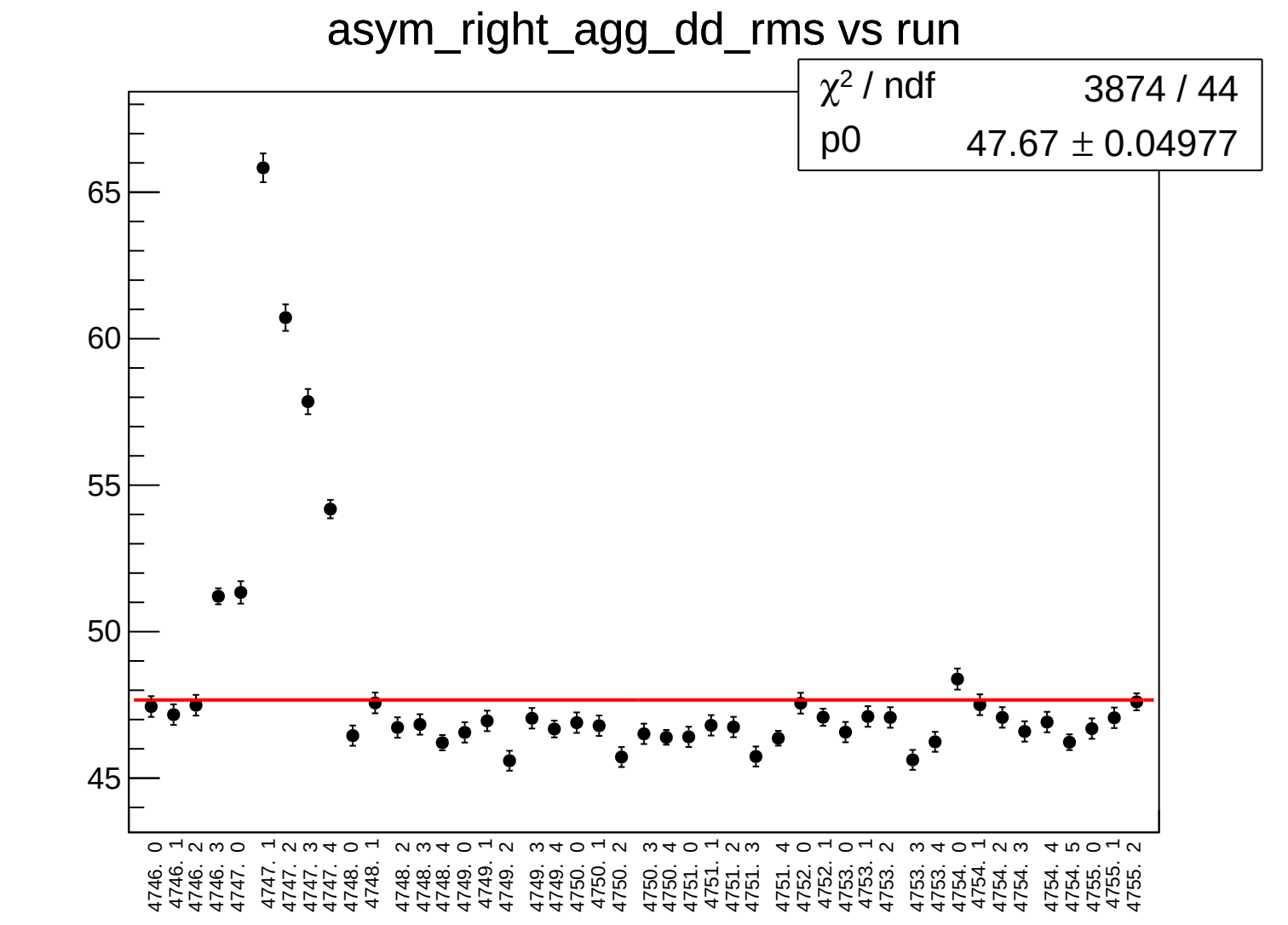

asym_right_agg_avg_mean vs run
χ² / ndf 33 / 44
p0 −681.8 ± 737.2
15000
10000
5000
0
−5000
−10000
−15000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −23.65
Std Dev 39.09
1.5
1
0.5
0
−0.5
−1
−1.5

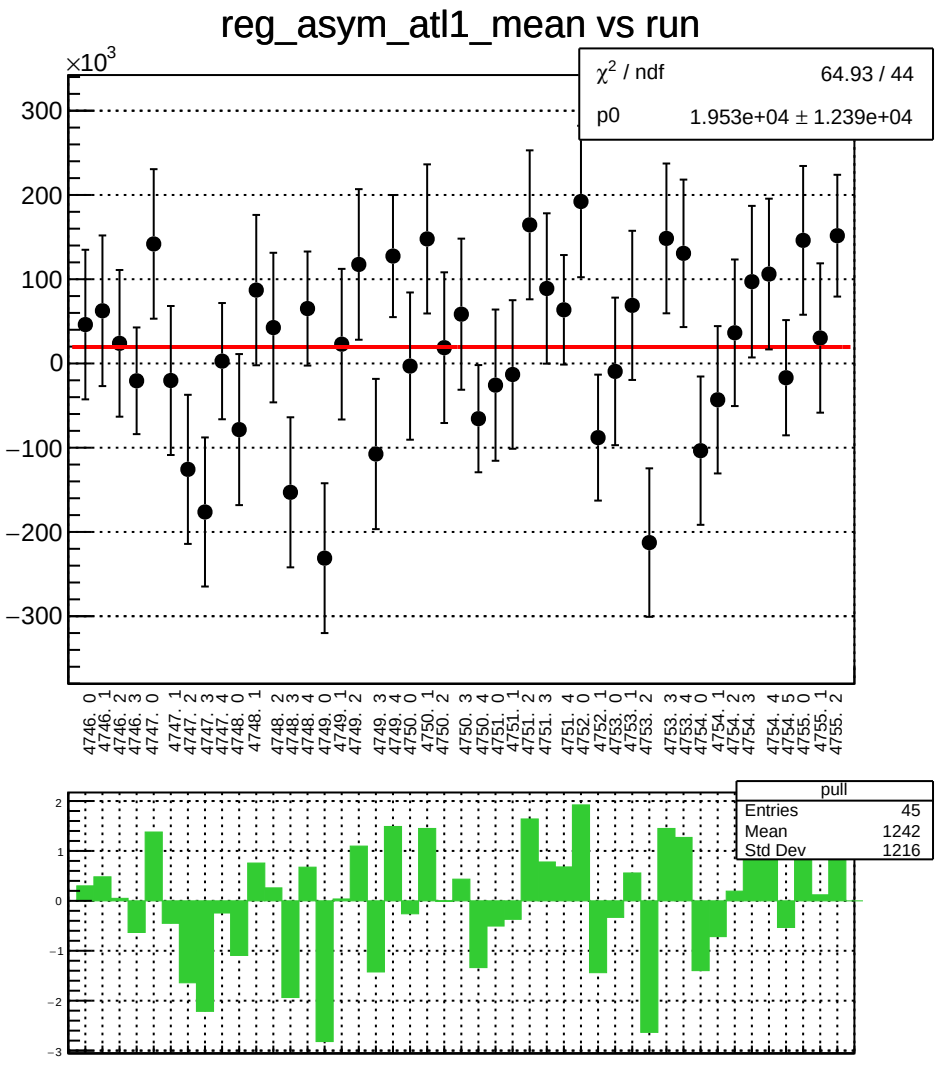

pull1D
Entries 45
Mean 0.02235
Std Dev 0.8561
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

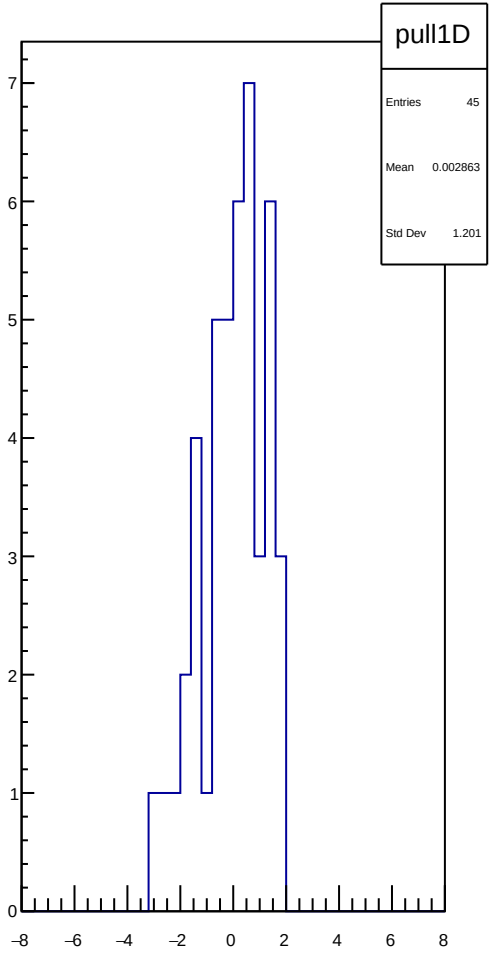

asym_right_agg_avg_rms vs run
χ² / ndf 6302 / 44
p0 498.5 ± 0.5213
750
700
650
600
550
500
450
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

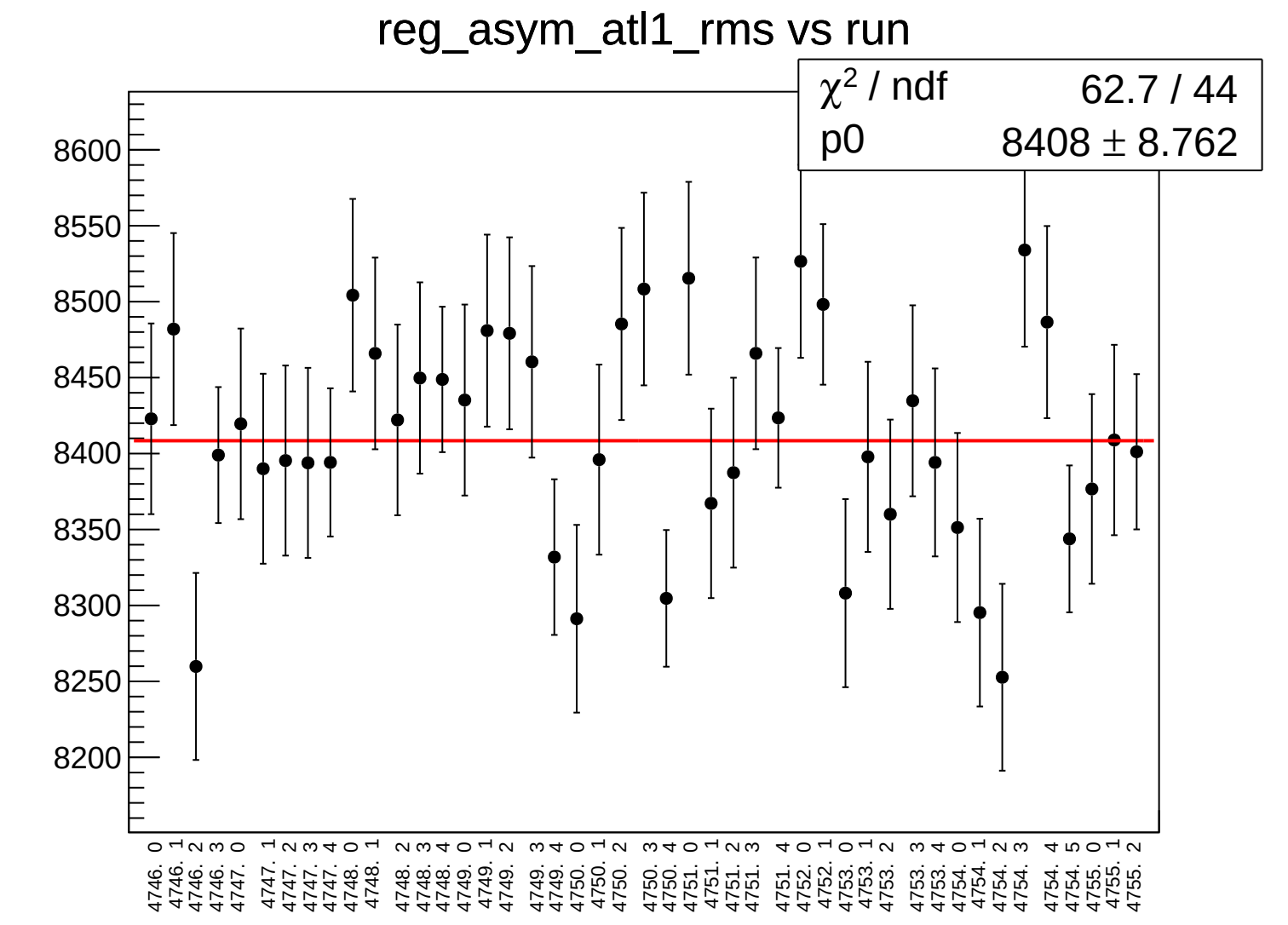

asym_right_agg_dd_mean vs run
χ² / ndf 50.1 / 44
p0 30.61 ± 70.39
2000
1500
1000
500
0
−500
−1000
−1500
−2000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −83.56
Std Dev 114.5
2
1
0
−1
−2
−3

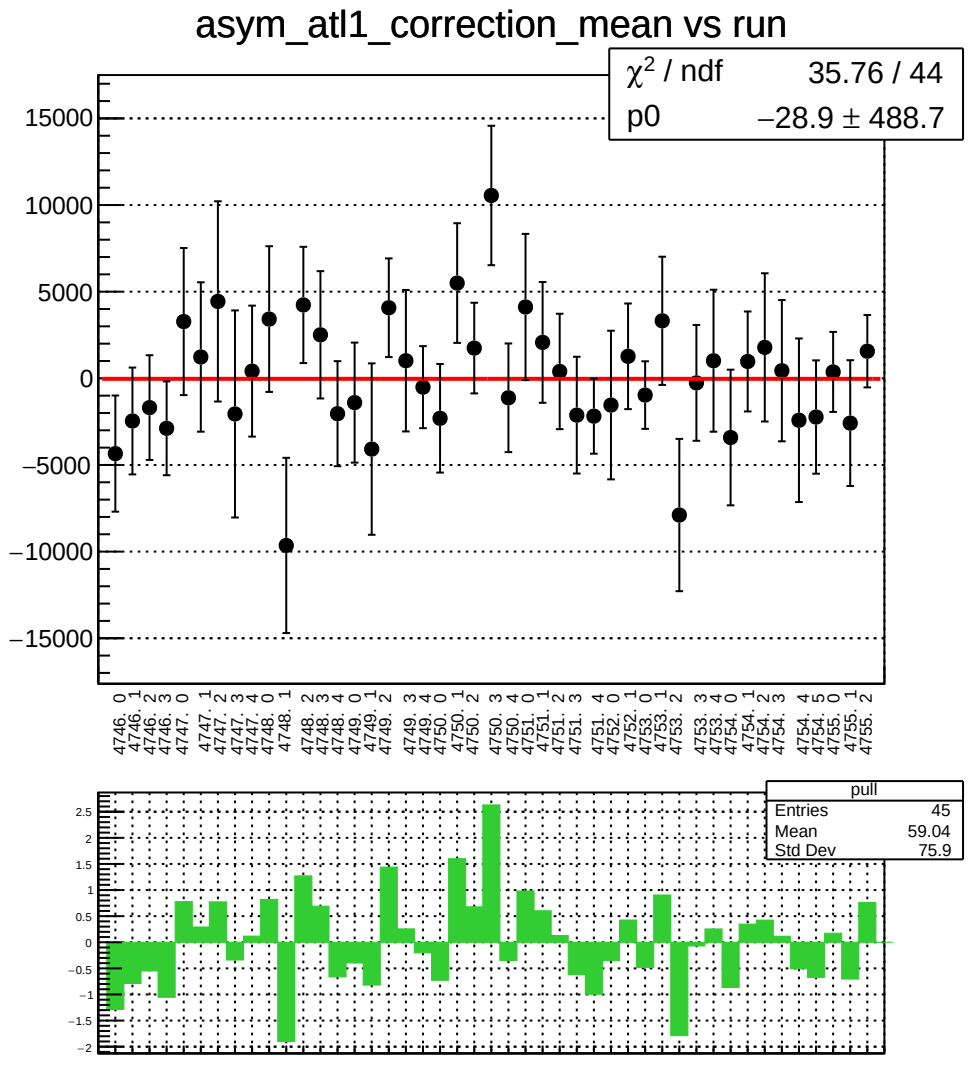

pull1D
Entries 45
Mean 0.01169
Std Dev 1.055
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

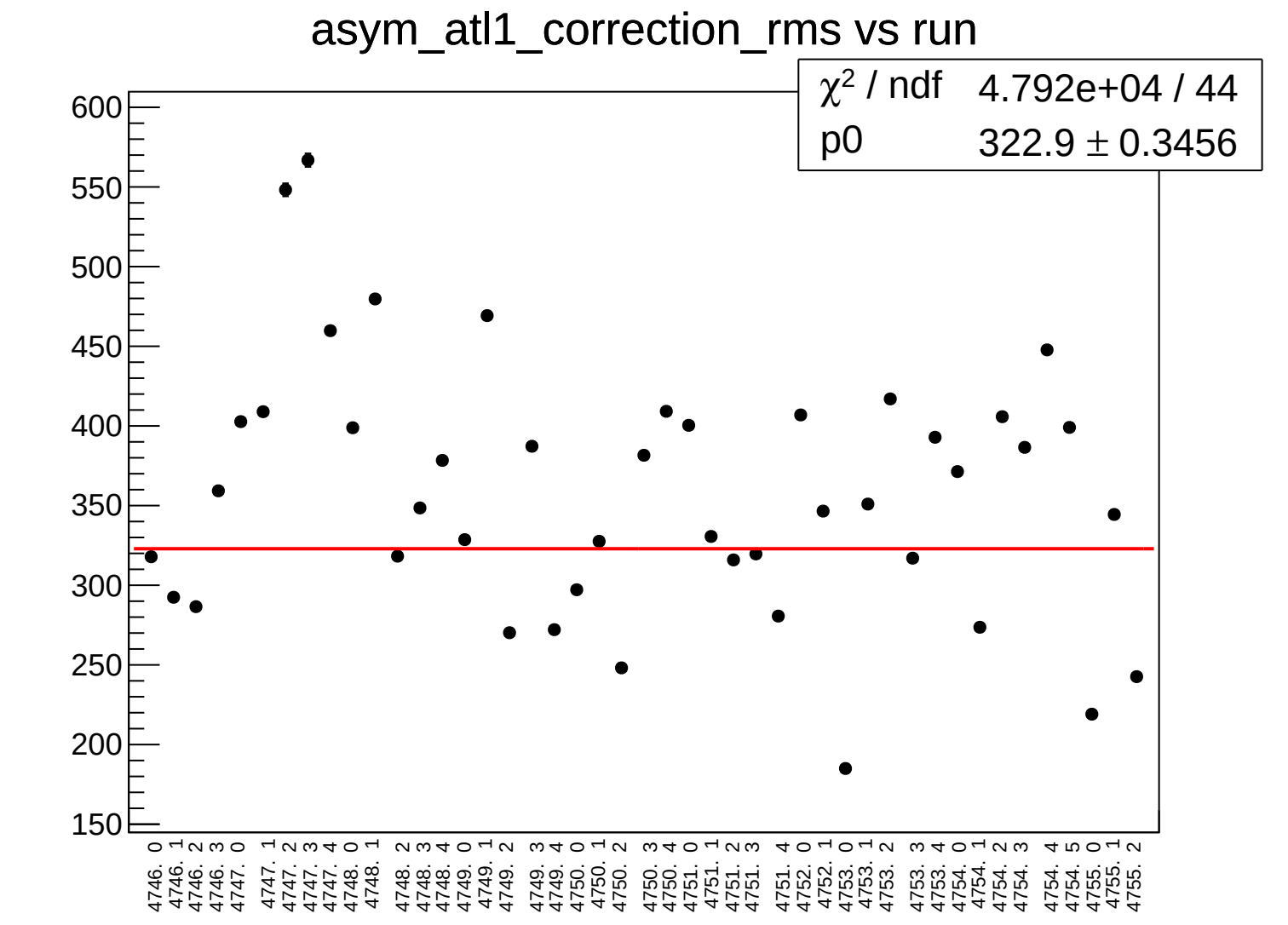

asym_right_agg_dd_rms vs run
χ² / ndf 3874 / 44
p0 47.67 ± 0.04977
65
60
55
50
45
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

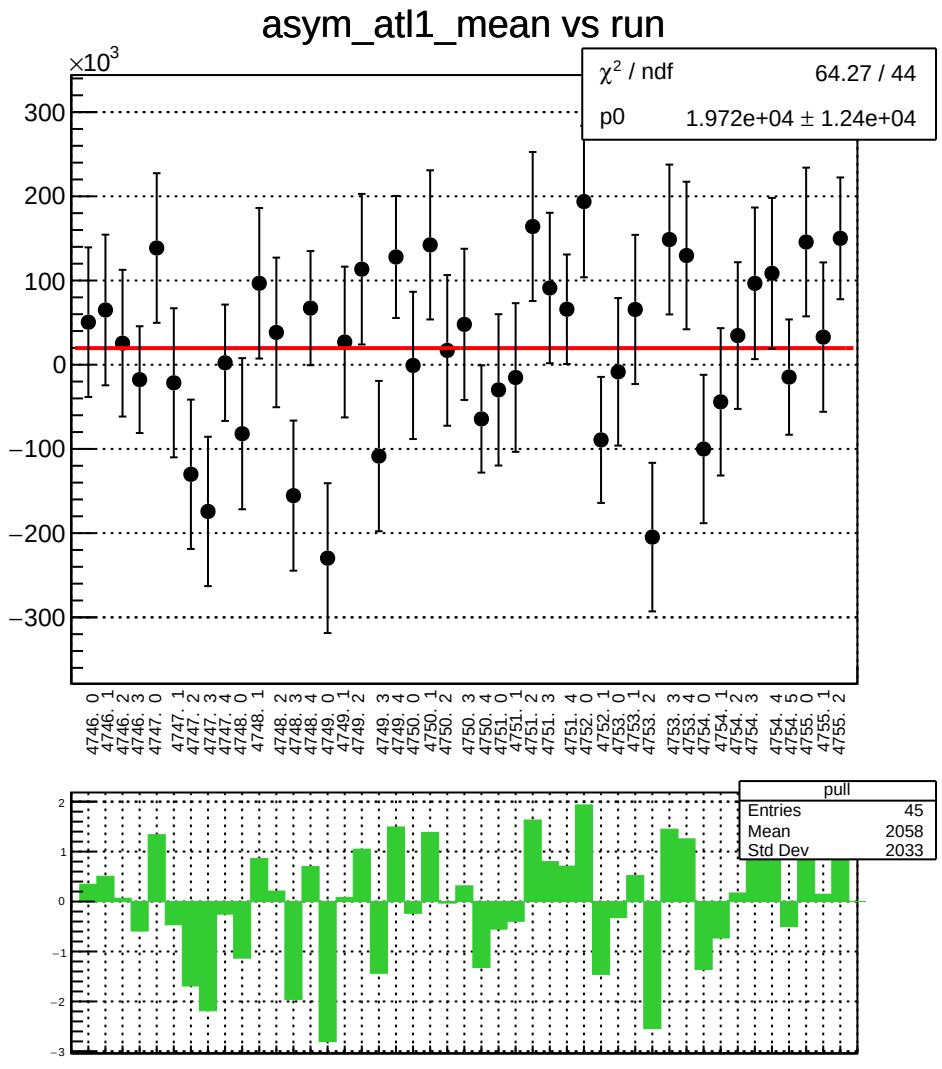

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 64.93 / 44
p0 1.953e+04 ± 1.239e+04
300
200
100
0
−100
−200
−300
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 1242
Std Dev 1216
2
1
0
−1
−2
−3

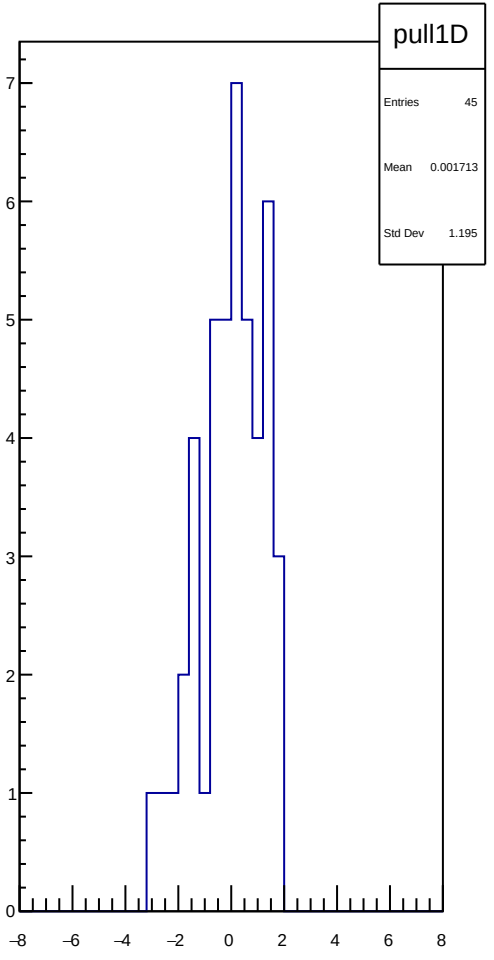

pull1D
Entries 45
Mean 0.002863
Std Dev 1.201
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

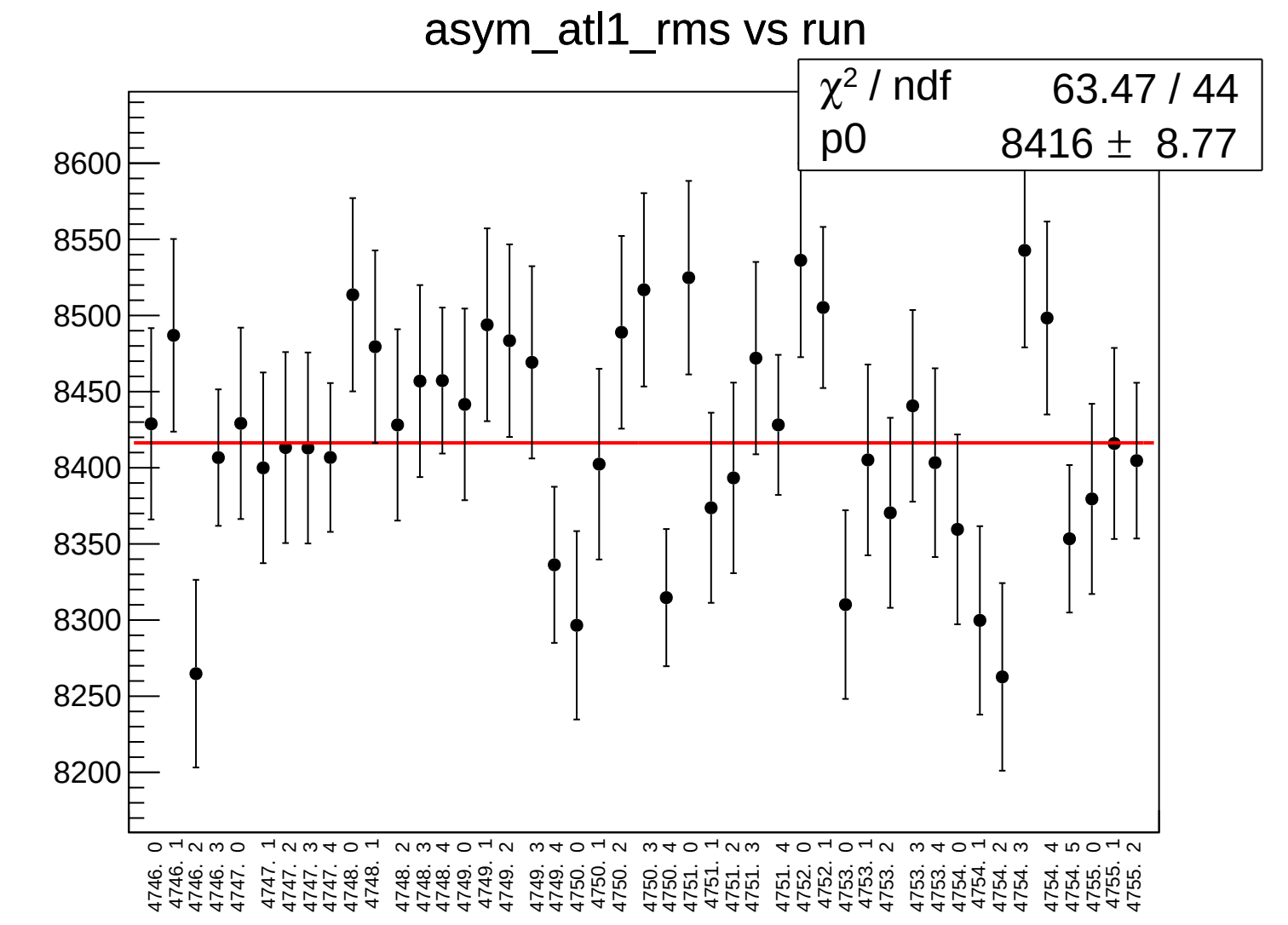

reg_asym_atl1_rms vs run
χ² / ndf 62.7 / 44
p0 8408 ± 8.762
8600
8550
8500
8450
8400
8350
8300
8250
8200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

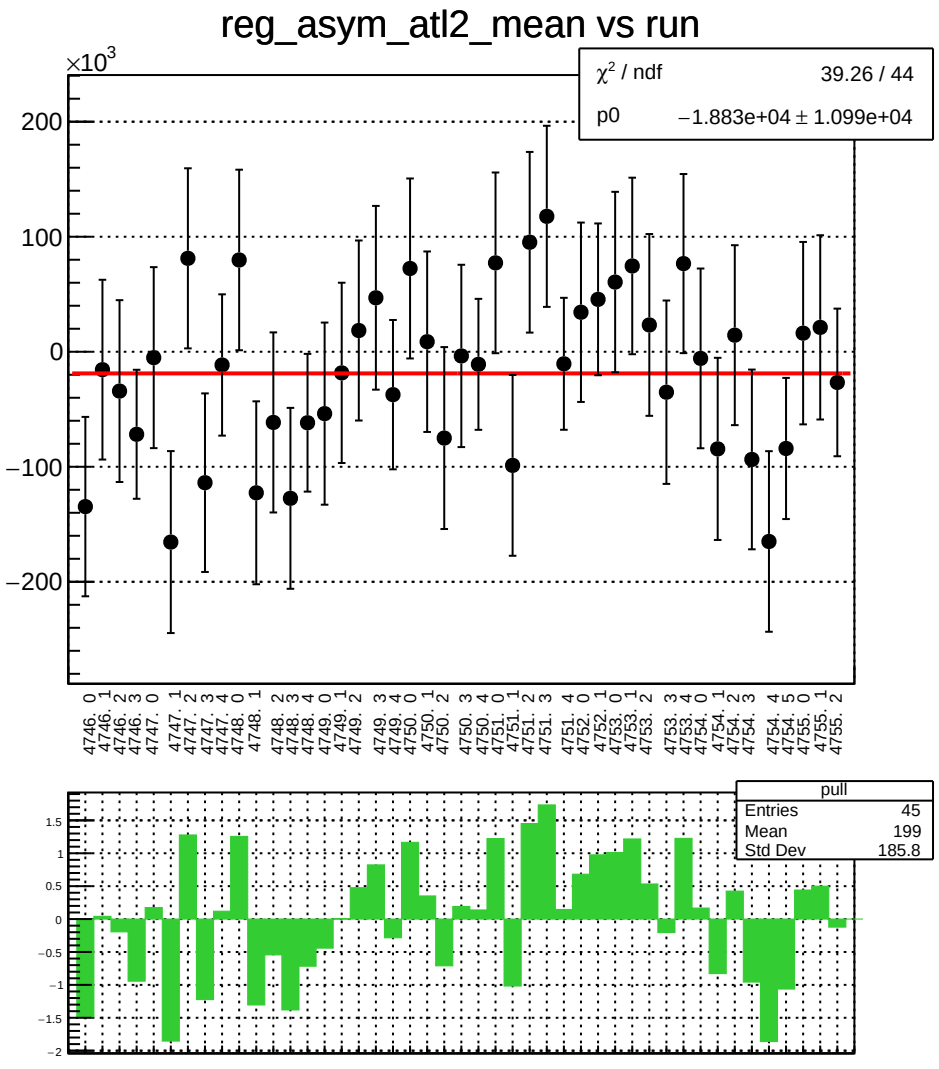

asym_atl1_correction_mean vs run
χ² / ndf 35.76 / 44
p0 −28.9 ± 488.7
15000
10000
5000
0
−5000
−10000
−15000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 59.04
Std Dev 75.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.007318
Std Dev 0.8915
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

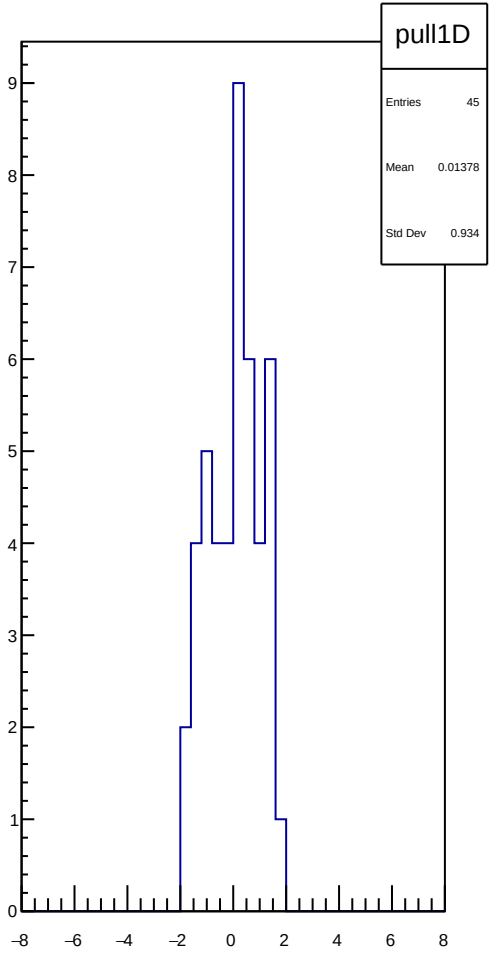

asym_atl1_correction_rms vs run
χ² / ndf 4.792e+04 / 44
p0 322.9 ± 0.3456
600
550
500
450
400
350
300
250
200
150
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

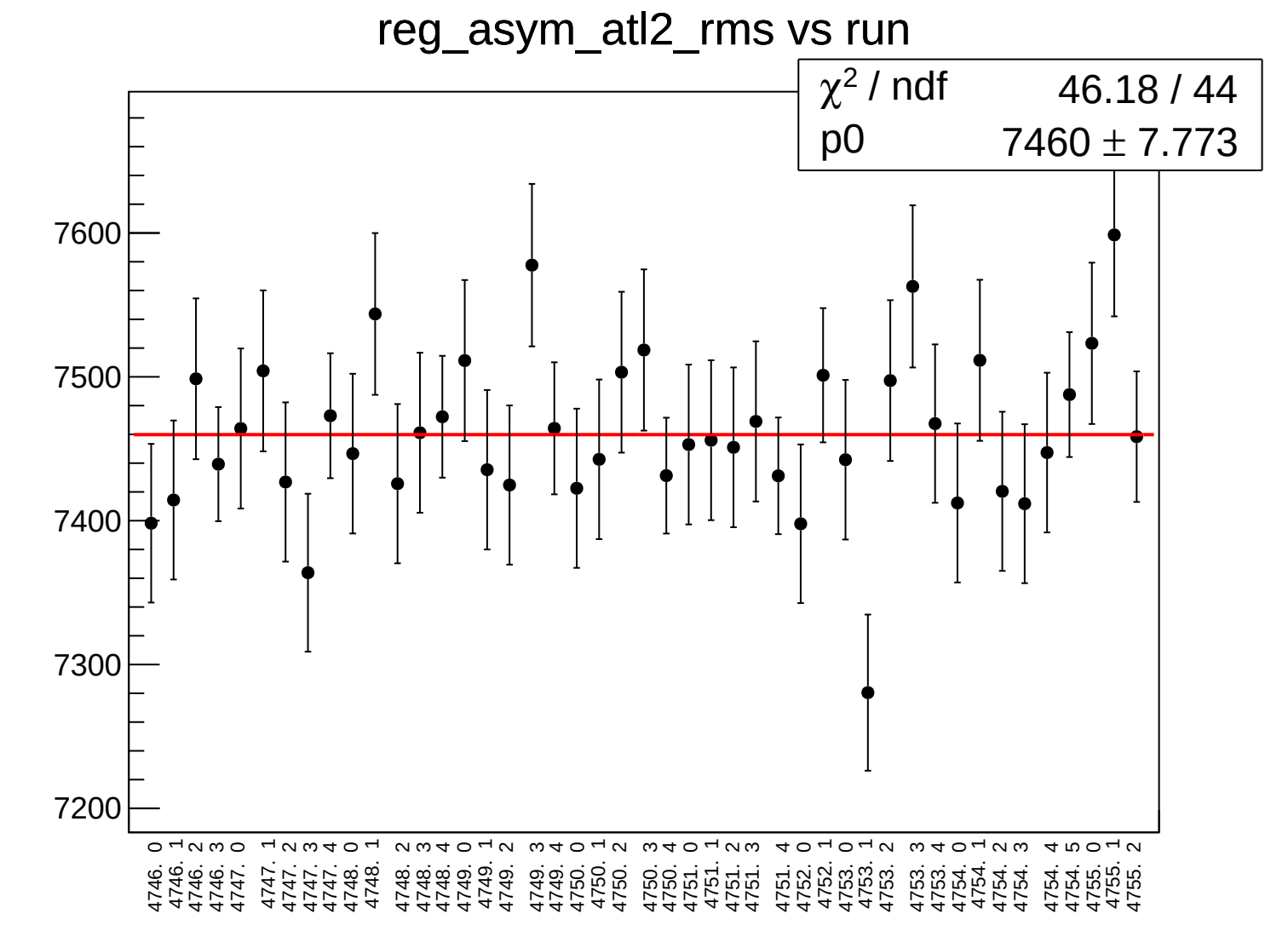

asym_atl1_mean vs run
×10^3
χ² / ndf 64.27 / 44
p0 1.972e+04 ± 1.24e+04
pull
Entries 45
Mean 2058
Std Dev 2033

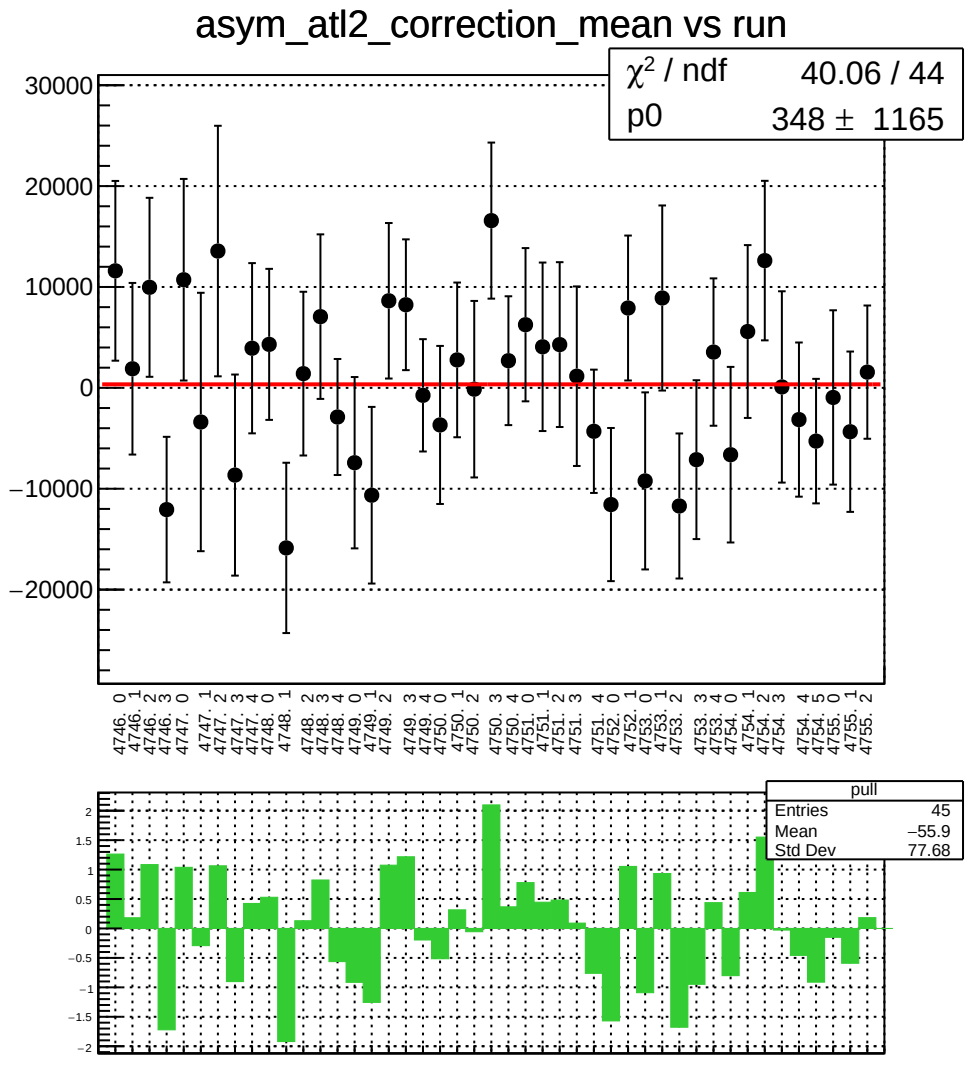

pull1D
Entries 45
Mean 0.001713
Std Dev 1.195

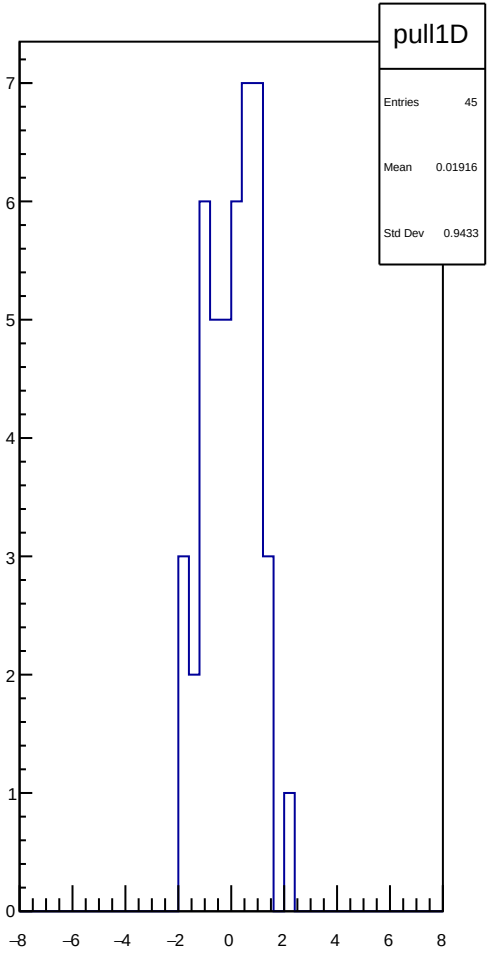

asym_atl1_rms vs run
χ² / ndf 63.47 / 44
p0 8416 ± 8.77
8600
8550
8500
8450
8400
8350
8300
8250
8200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

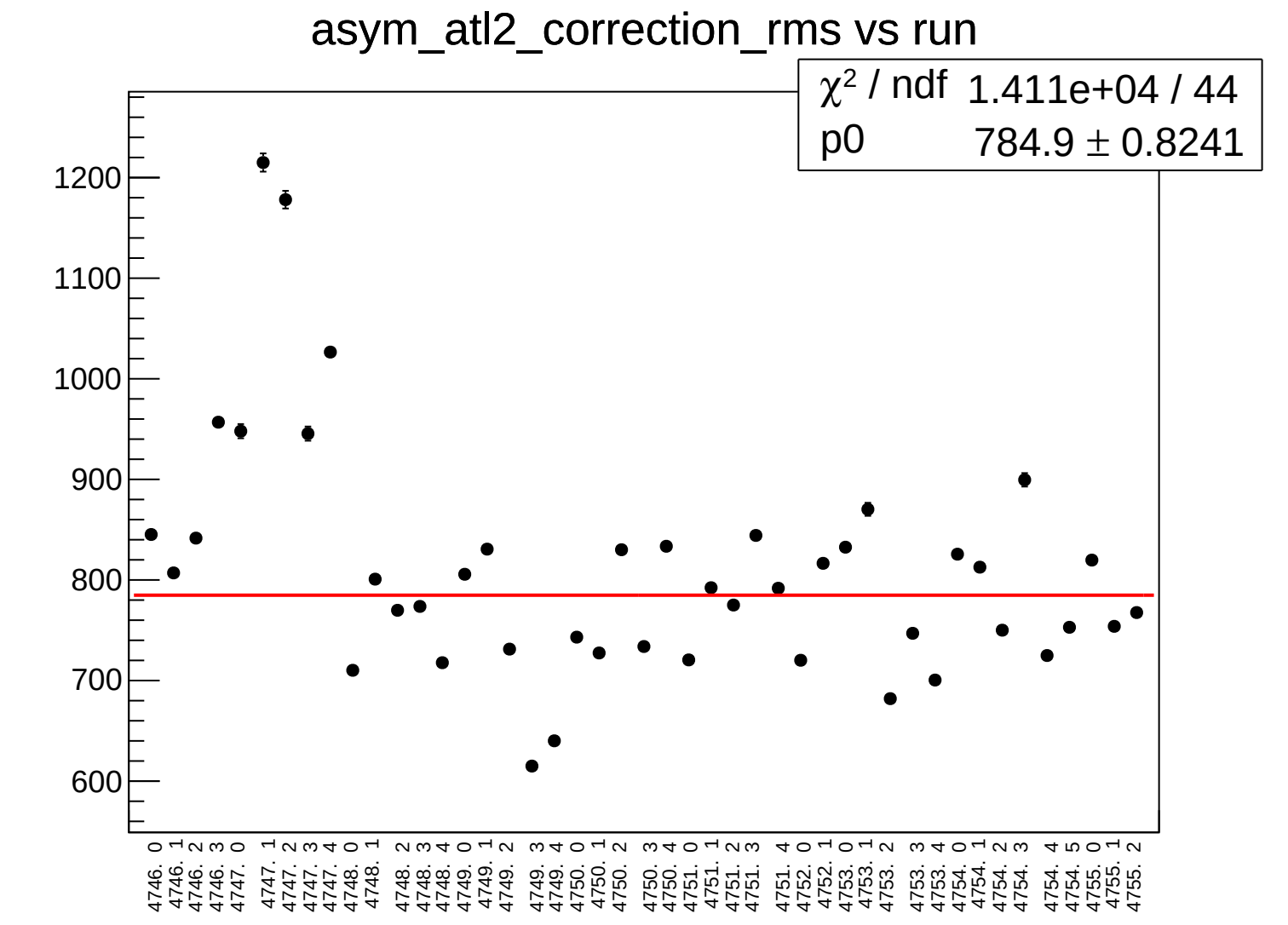

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 39.26 / 44
p0 −1.883e+04 ± 1.099e+04
200
100
0
−100
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 199
Std Dev 185.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2

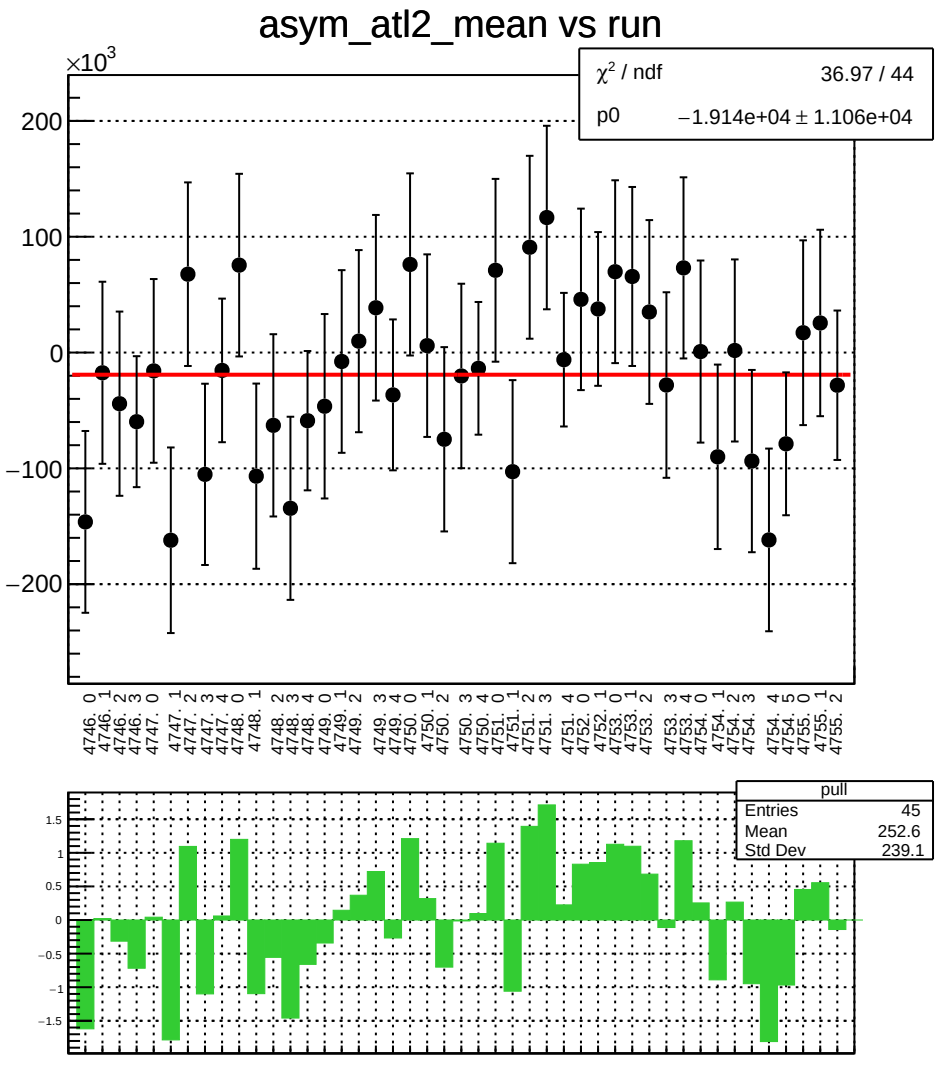

pull1D
Entries 45
Mean 0.01378
Std Dev 0.934
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

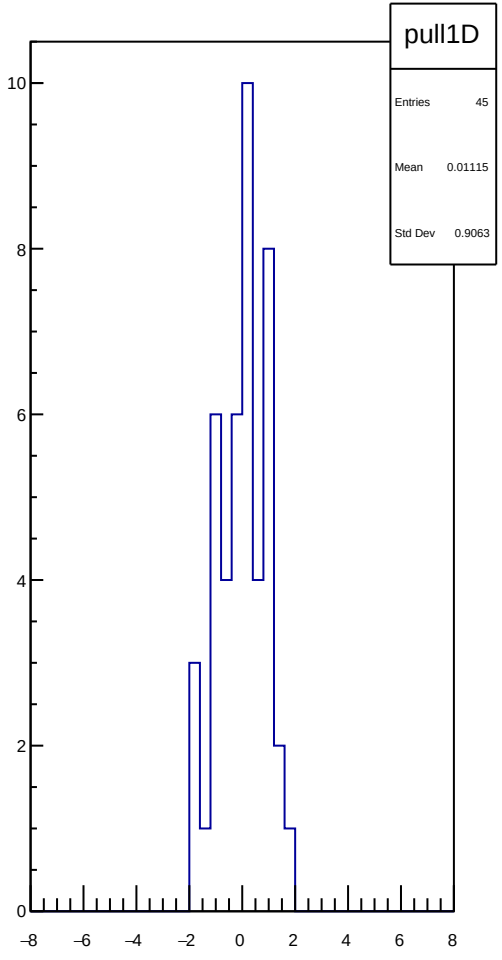

reg_asym_atl2_rms vs run
χ² / ndf 46.18 / 44
p0 7460 ± 7.773
7600
7500
7400
7300
7200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

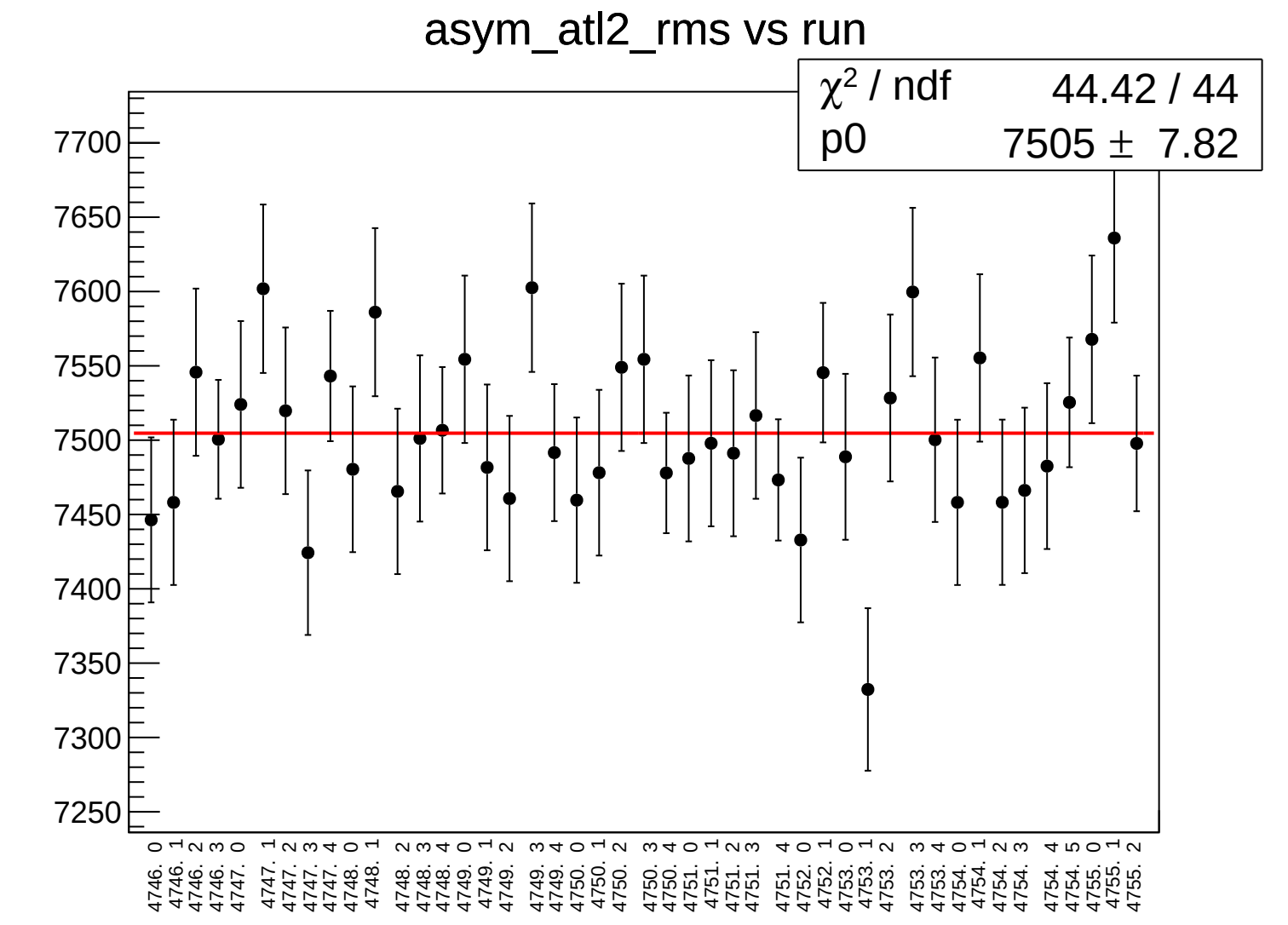

asym_atl2_correction_mean vs run
χ² / ndf 40.06 / 44
p0 348 ± 1165
30000
20000
10000
0
−10000
−20000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −55.9
Std Dev 77.68
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

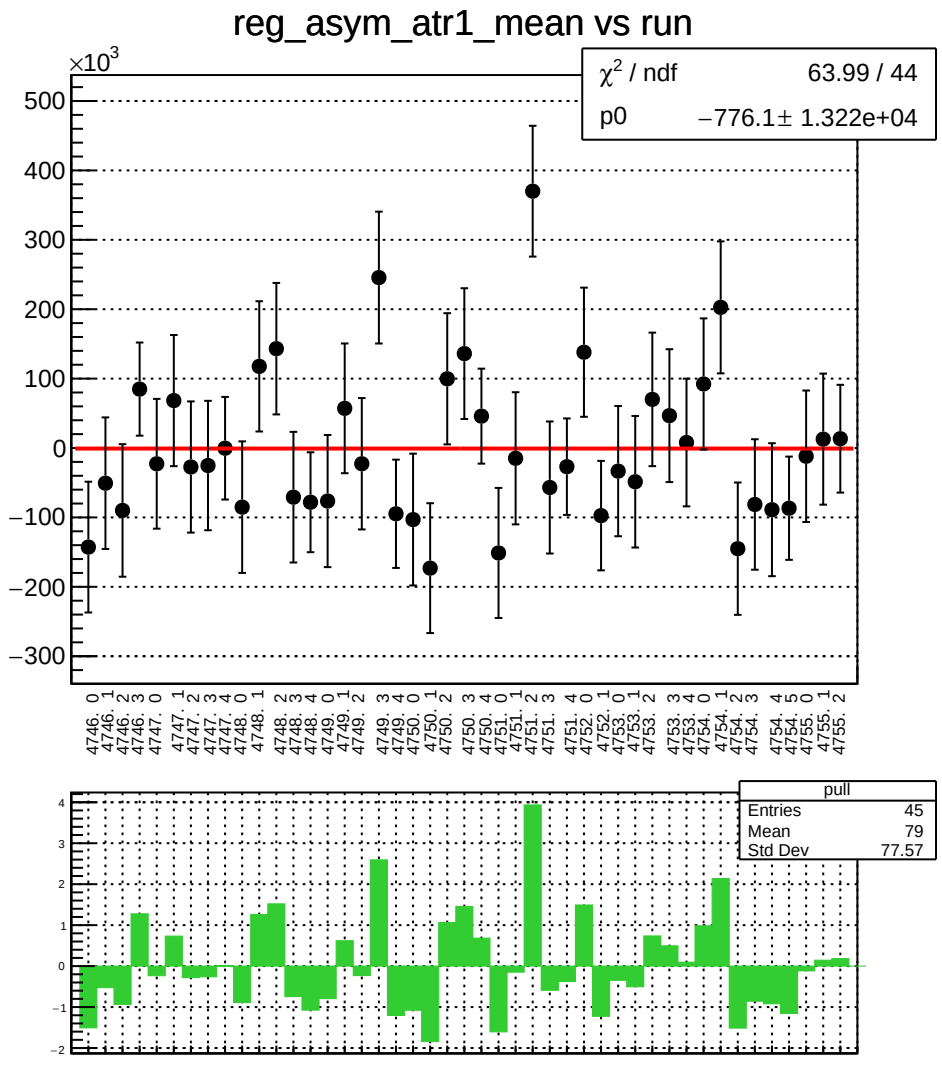

pull1D
Entries 45
Mean 0.01916
Std Dev 0.9433
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

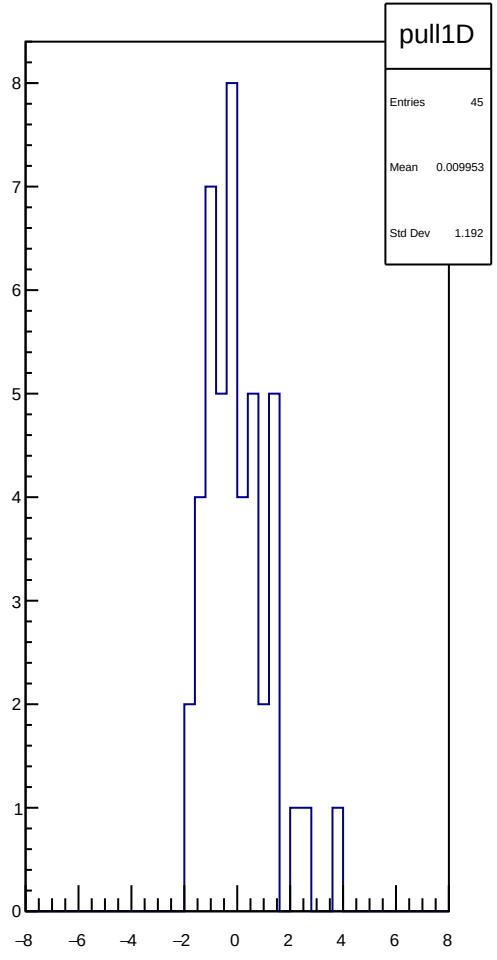

asym_atl2_correction_rms vs run
χ² / ndf 1.411e+04 / 44
p0 784.9 ± 0.8241
1200
1100
1000
900
800
700
600
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

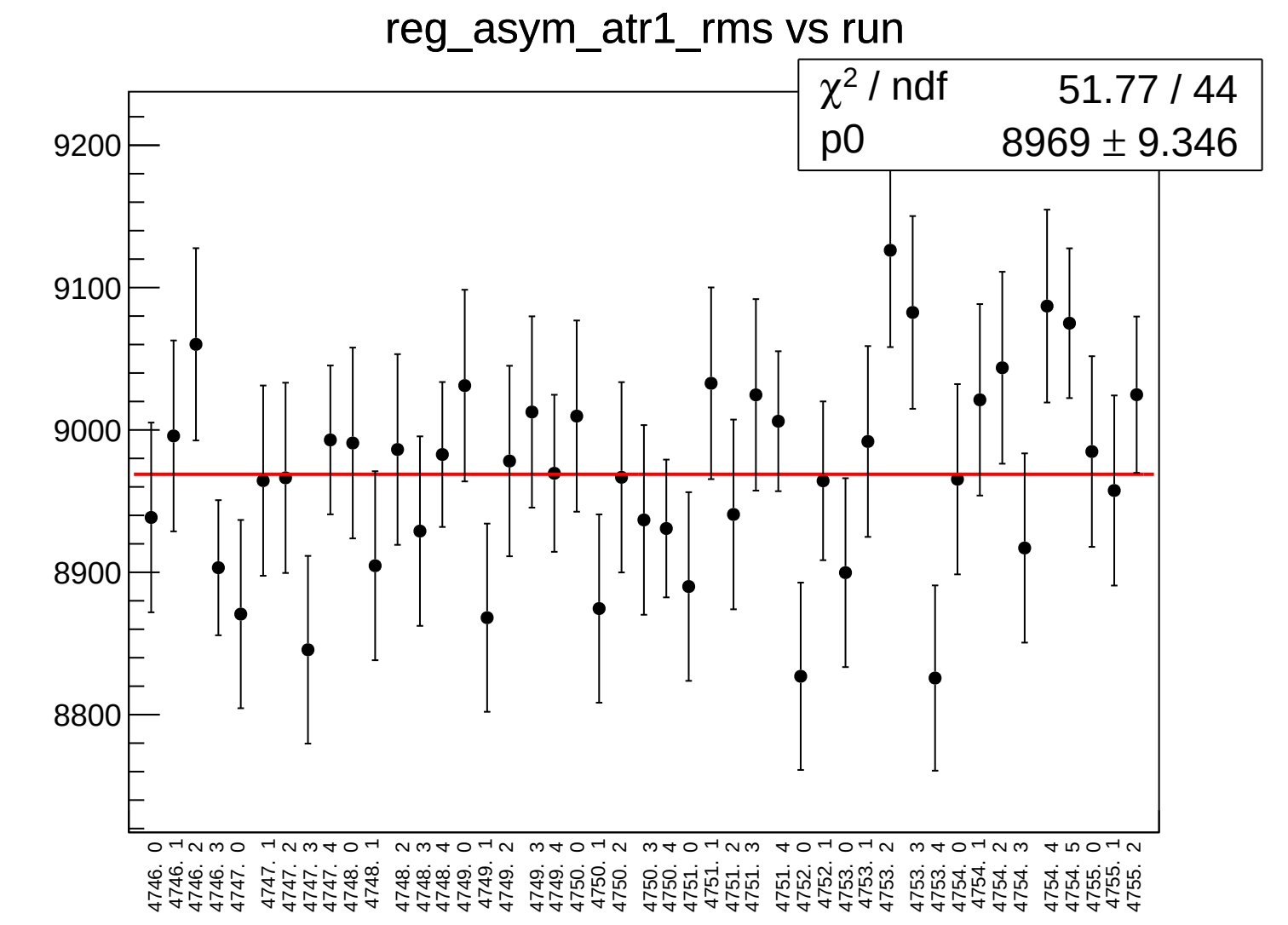

asym_atl2_mean vs run
×10^3
χ² / ndf 36.97 / 44
p0 −1.914e+04 ± 1.106e+04
200
100
0
−100
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 252.6
Std Dev 239.1
1.5
1
0.5
0
−0.5
−1
−1.5

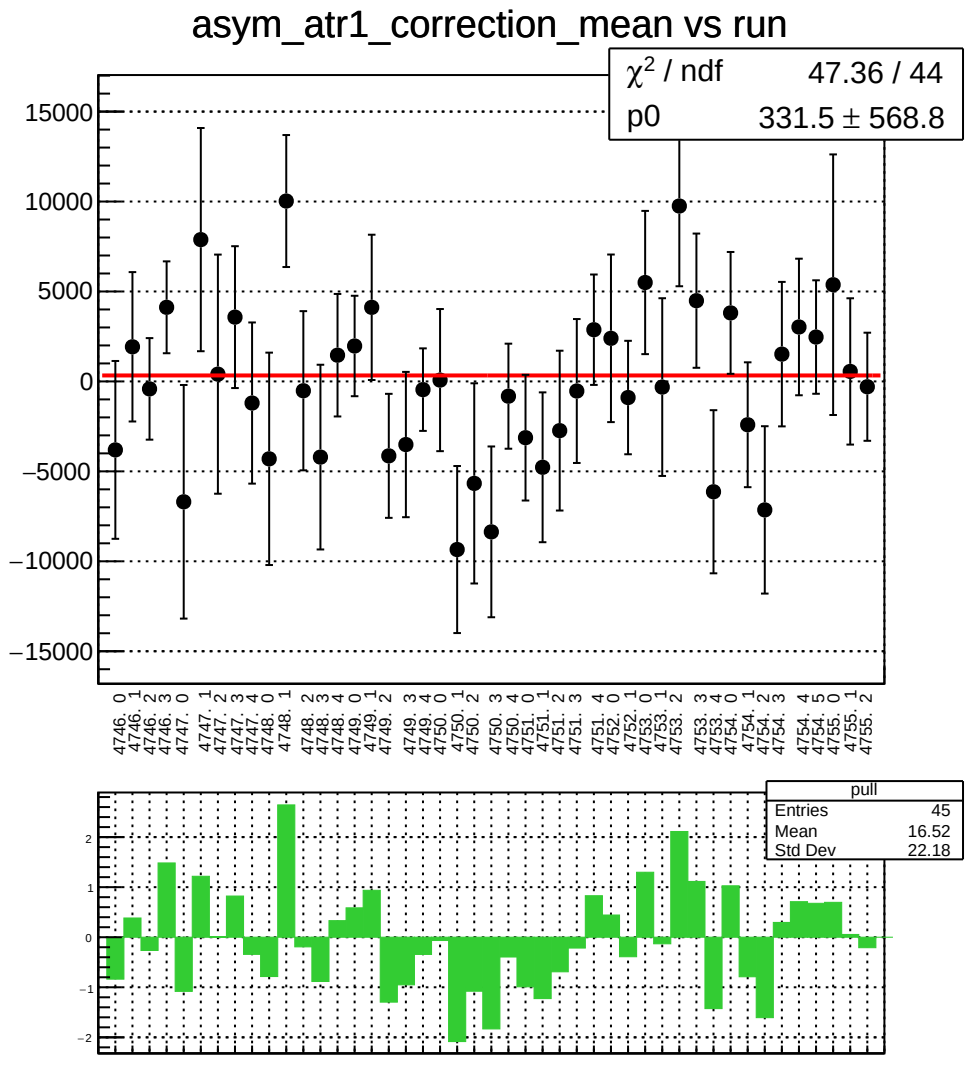

pull1D
Entries 45
Mean 0.01115
Std Dev 0.9063
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

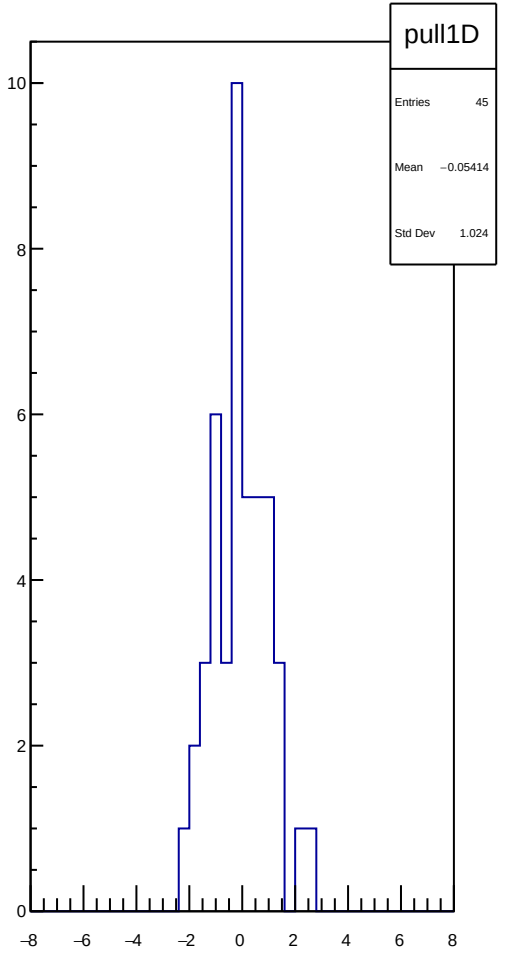

asym_atl2_rms vs run
χ² / ndf 44.42 / 44
p0 7505 ± 7.82
7700
7650
7600
7550
7500
7450
7400
7350
7300
7250
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

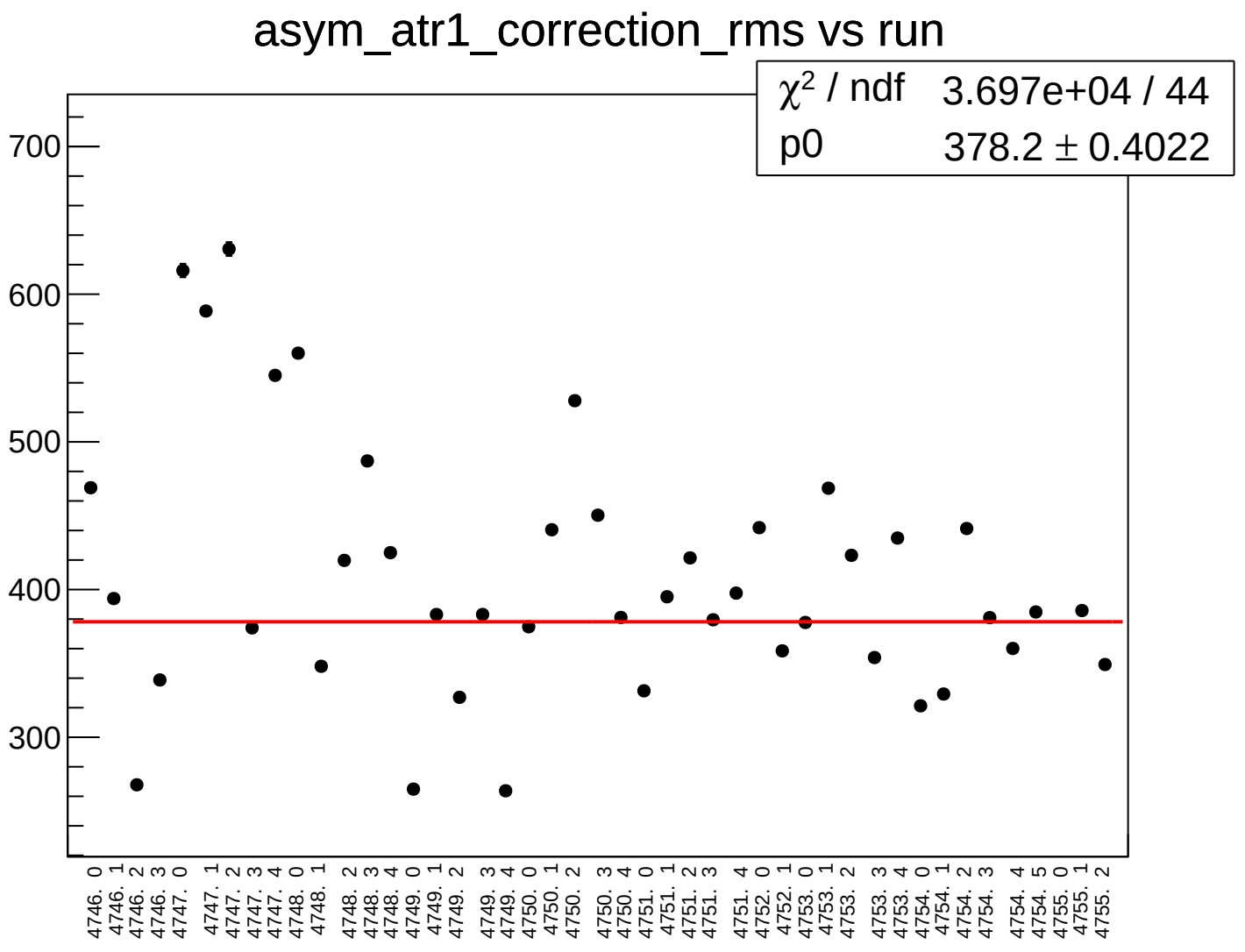

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 63.99 / 44
p0 −776.1± 1.322e+04
500
400
300
200
100
0
−100
−200
−300
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 79
Std Dev 77.57
4
3
2
1
0
−1
−2

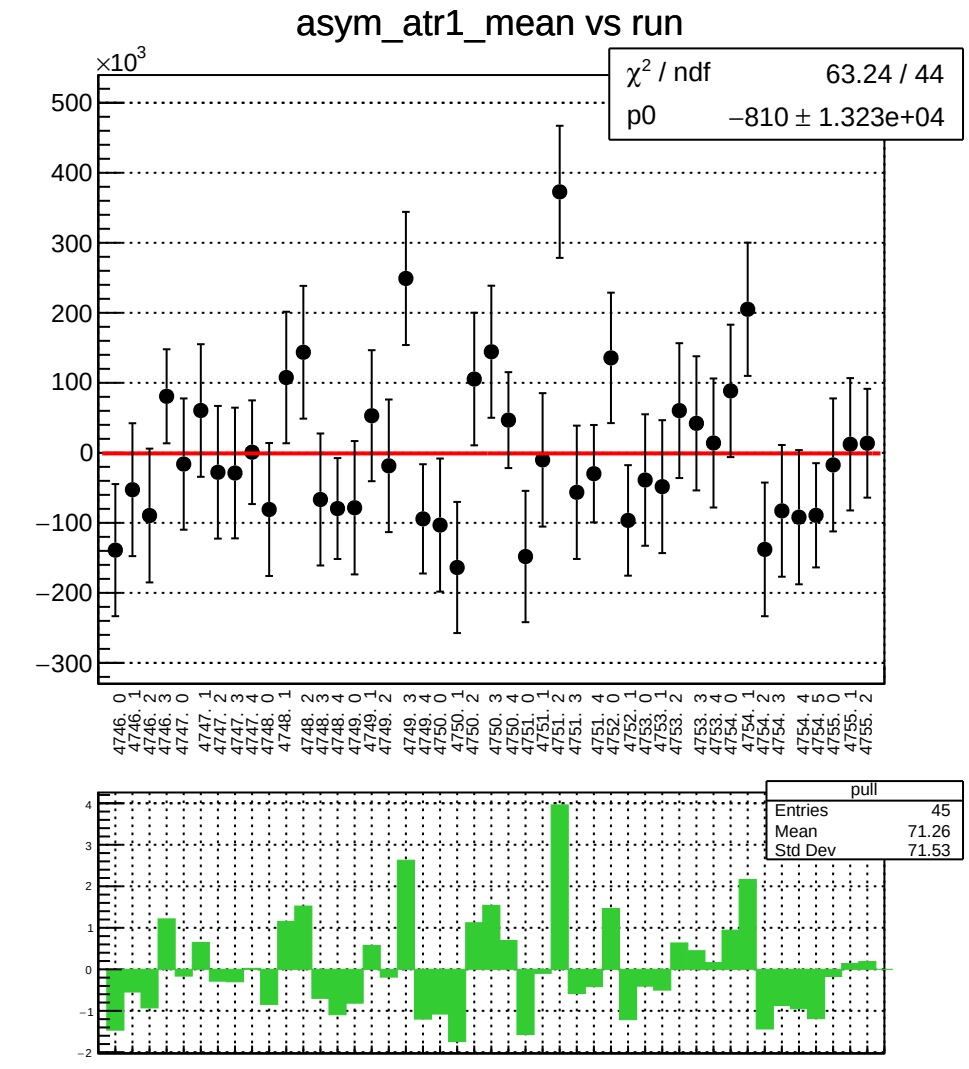

pull1D
Entries 45
Mean 0.009953
Std Dev 1.192
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

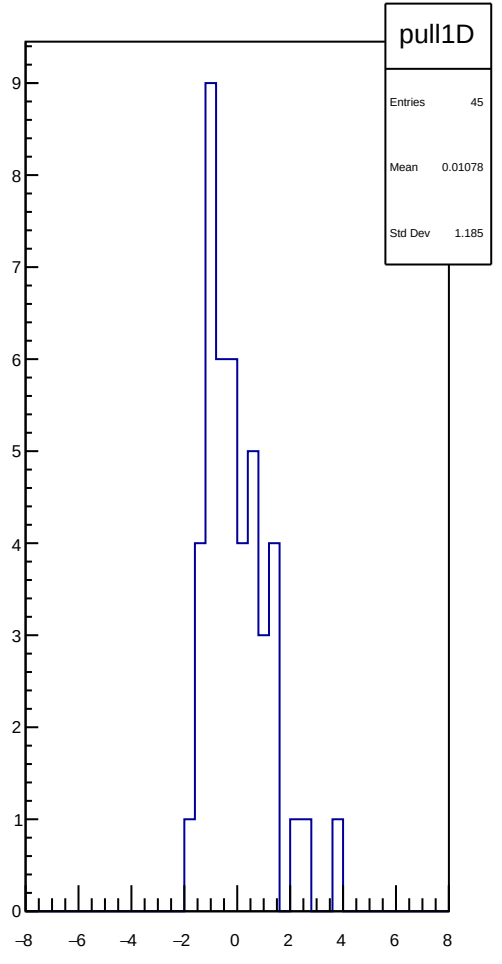

reg_asym_atr1_rms vs run
χ² / ndf 51.77 / 44
p0 8969 ± 9.346
9200
9100
9000
8900
8800
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

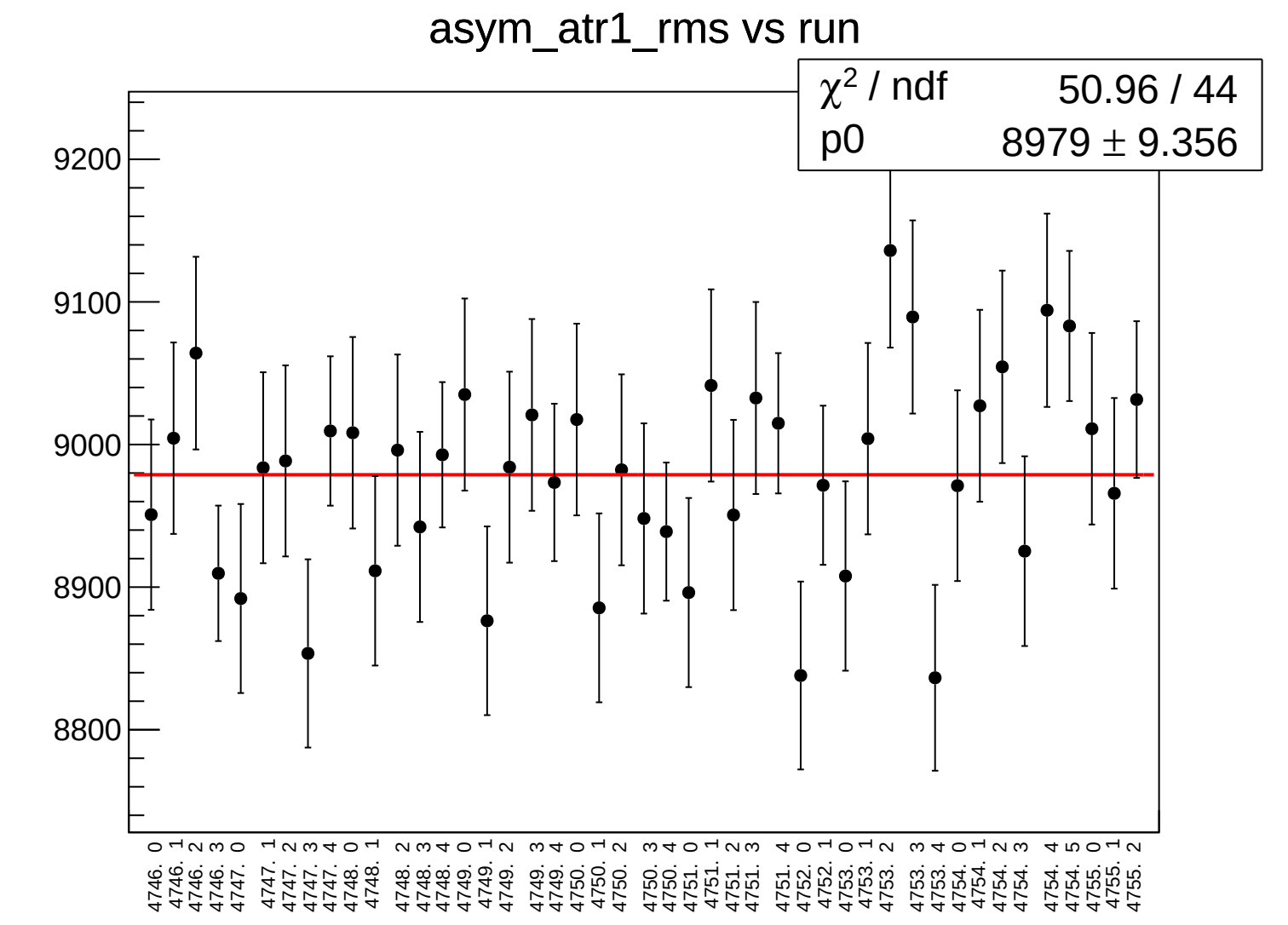

asym_atr1_correction_mean vs run
χ² / ndf 47.36 / 44
p0 331.5 ± 568.8
15000
10000
5000
0
−5000
−10000
−15000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 16.52
Std Dev 22.18
2
1
0
−1
−2

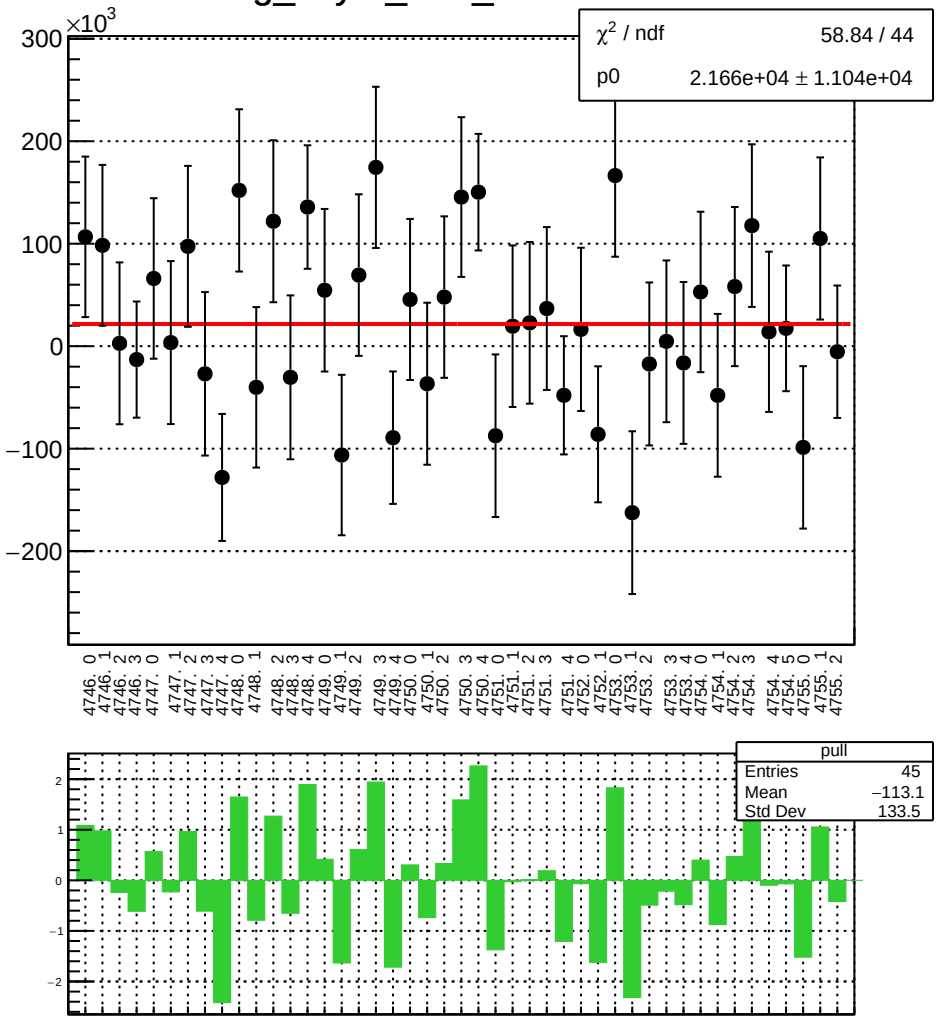

pull1D
Entries 45
Mean −0.05414
Std Dev 1.024
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

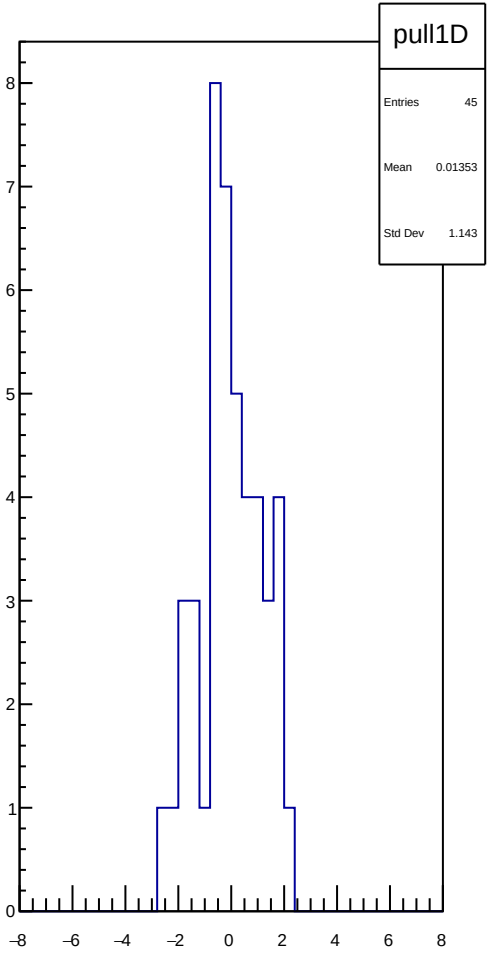

asym_atr1_correction_rms vs run
χ² / ndf 3.697e+04 / 44
p0 378.2 ± 0.4022
700
600
500
400
300
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

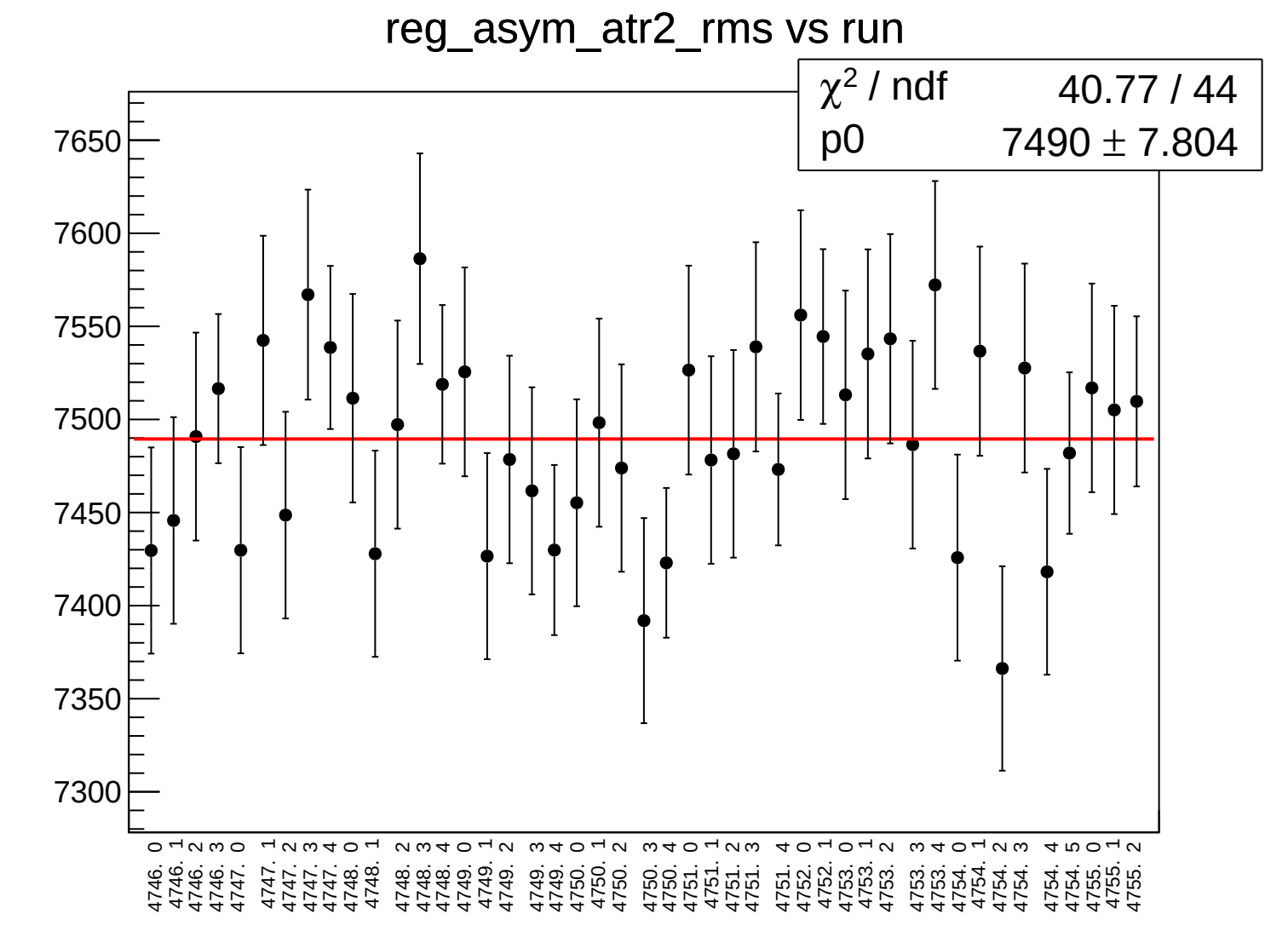

asym_atr1_mean vs run
×10^3
χ² / ndf 63.24 / 44
p0 −810 ± 1.323e+04
pull
Entries 45
Mean 71.26
Std Dev 71.53

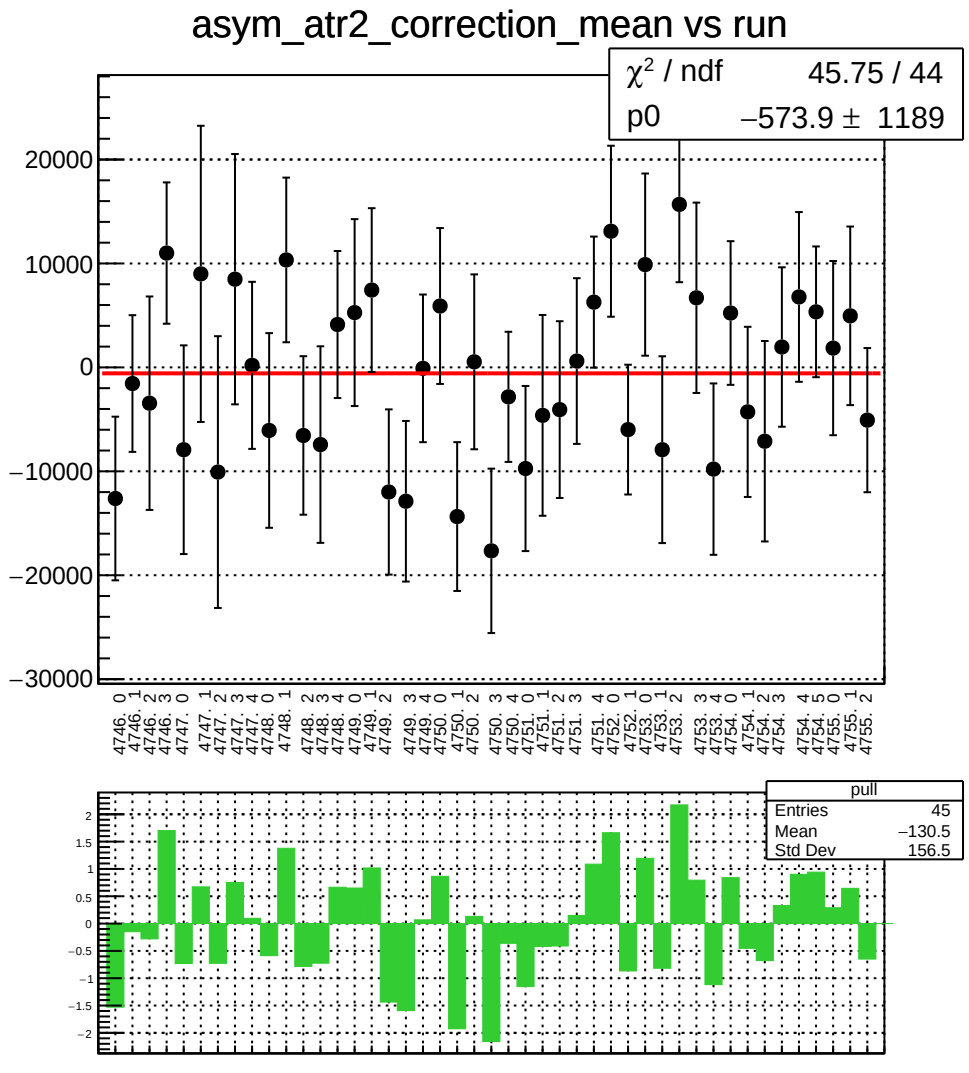

pull1D
Entries 45
Mean 0.01078
Std Dev 1.185

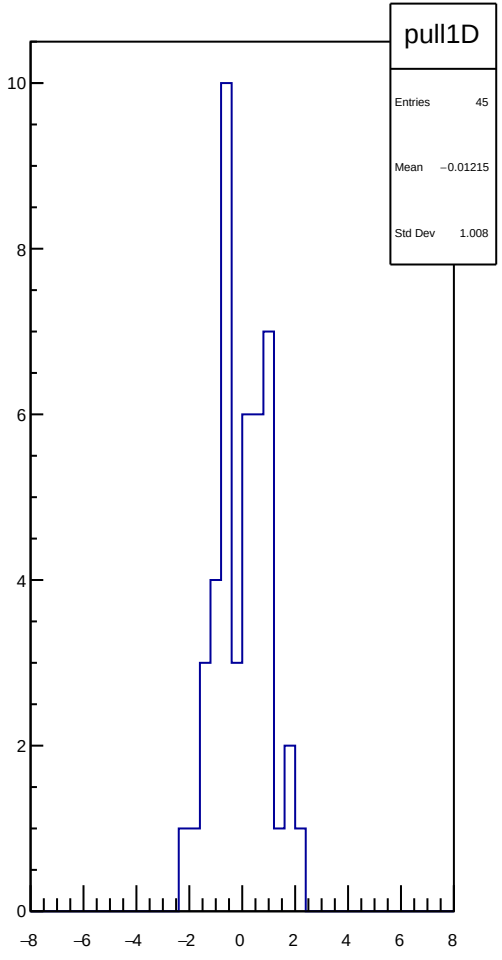

asym_atr1_rms vs run
χ² / ndf 50.96 / 44
p0 8979 ± 9.356
9200
9100
9000
8900
8800
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

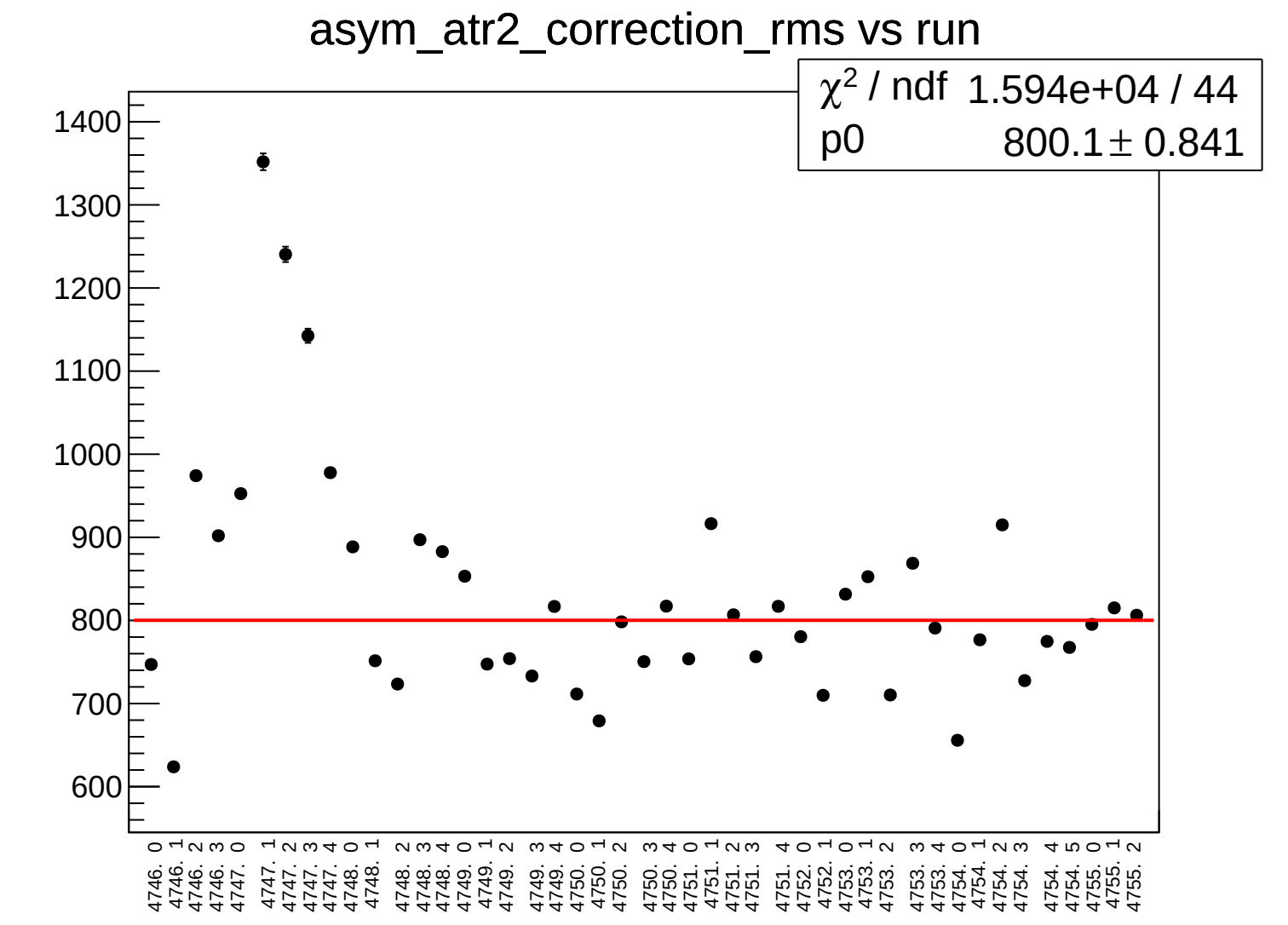

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 58.84 / 44
p0 2.166e+04 ± 1.104e+04
pull
Entries 45
Mean −113.1
Std Dev 133.5

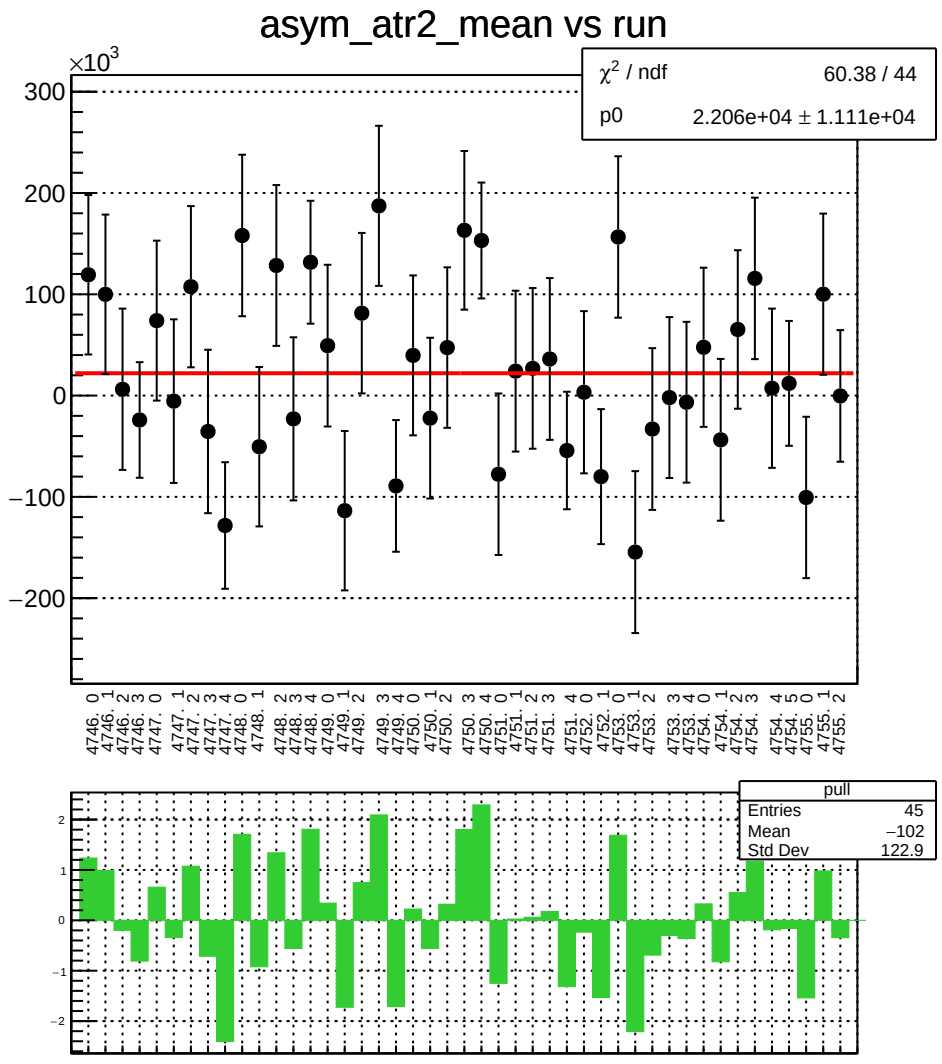

pull1D
Entries 45
Mean 0.01353
Std Dev 1.143

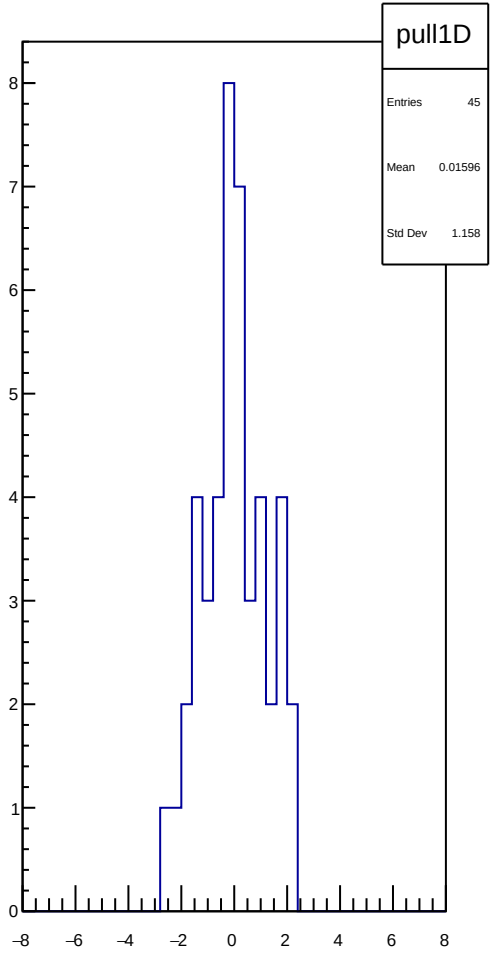

reg_asym_atr2_rms vs run
χ² / ndf 40.77 / 44
p0 7490 ± 7.804
7650
7600
7550
7500
7450
7400
7350
7300
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

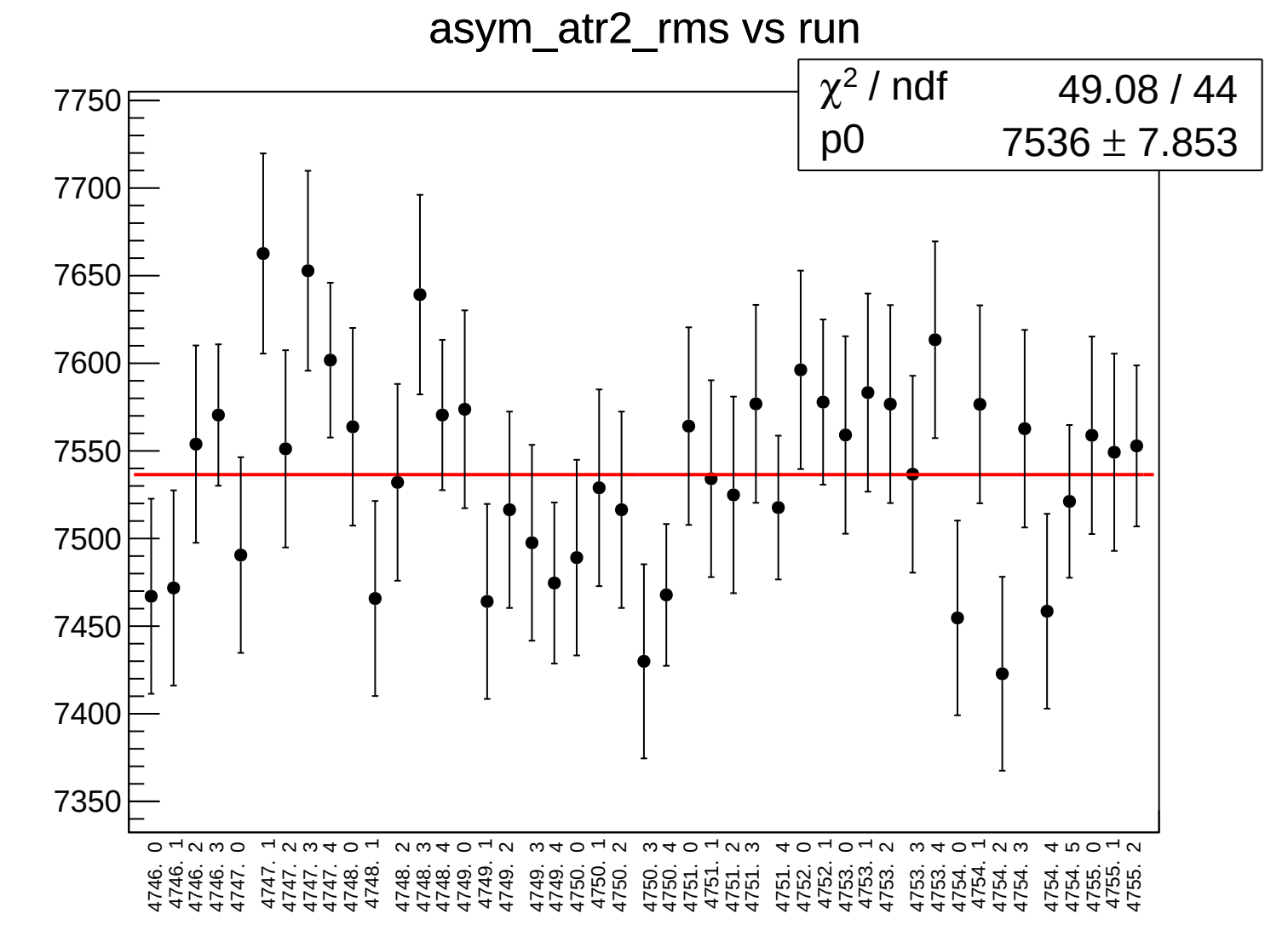

asym_atr2_correction_mean vs run
χ² / ndf 45.75 / 44
p0 −573.9 ± 1189
20000
10000
0
−10000
−20000
−30000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −130.5
Std Dev 156.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

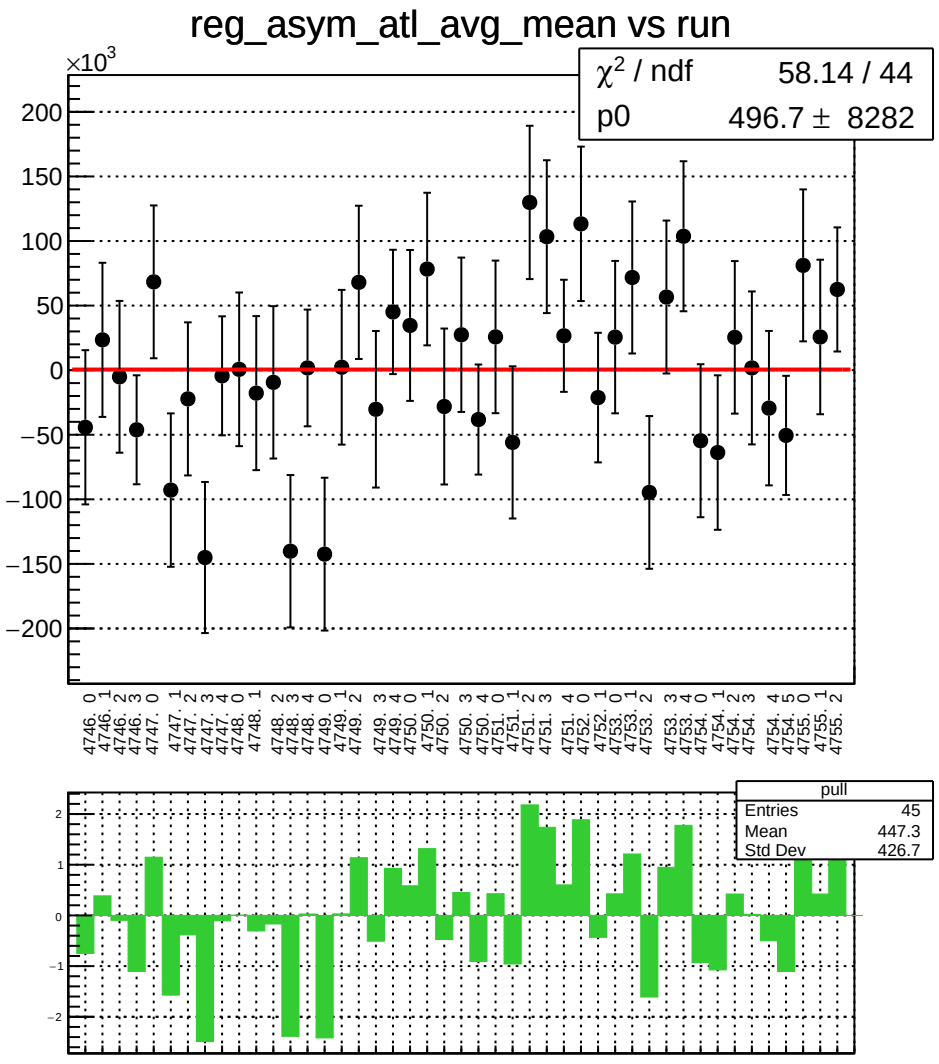

pull1D
Entries 45
Mean −0.01215
Std Dev 1.008
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

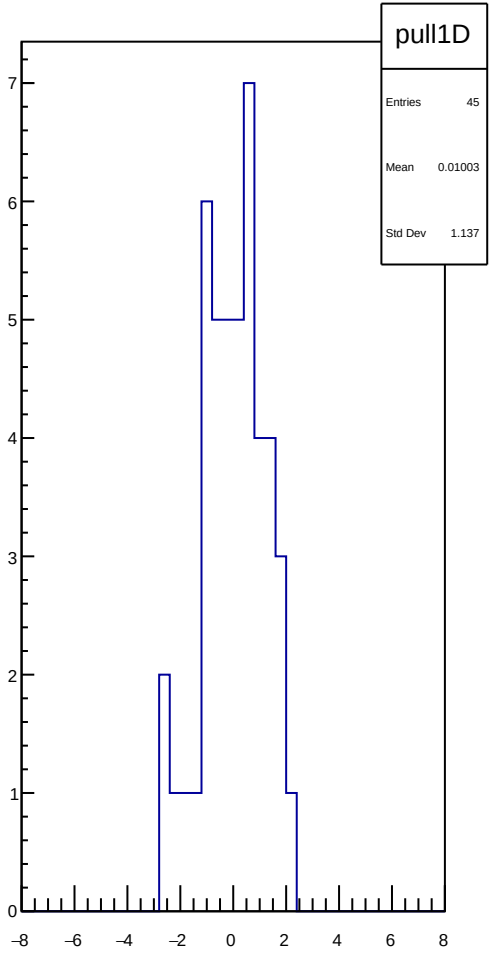

asym_atr2_correction_rms vs run
χ² / ndf 1.594e+04 / 44
p0 800.1 ± 0.841
1400
1300
1200
1100
1000
900
800
700
600
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

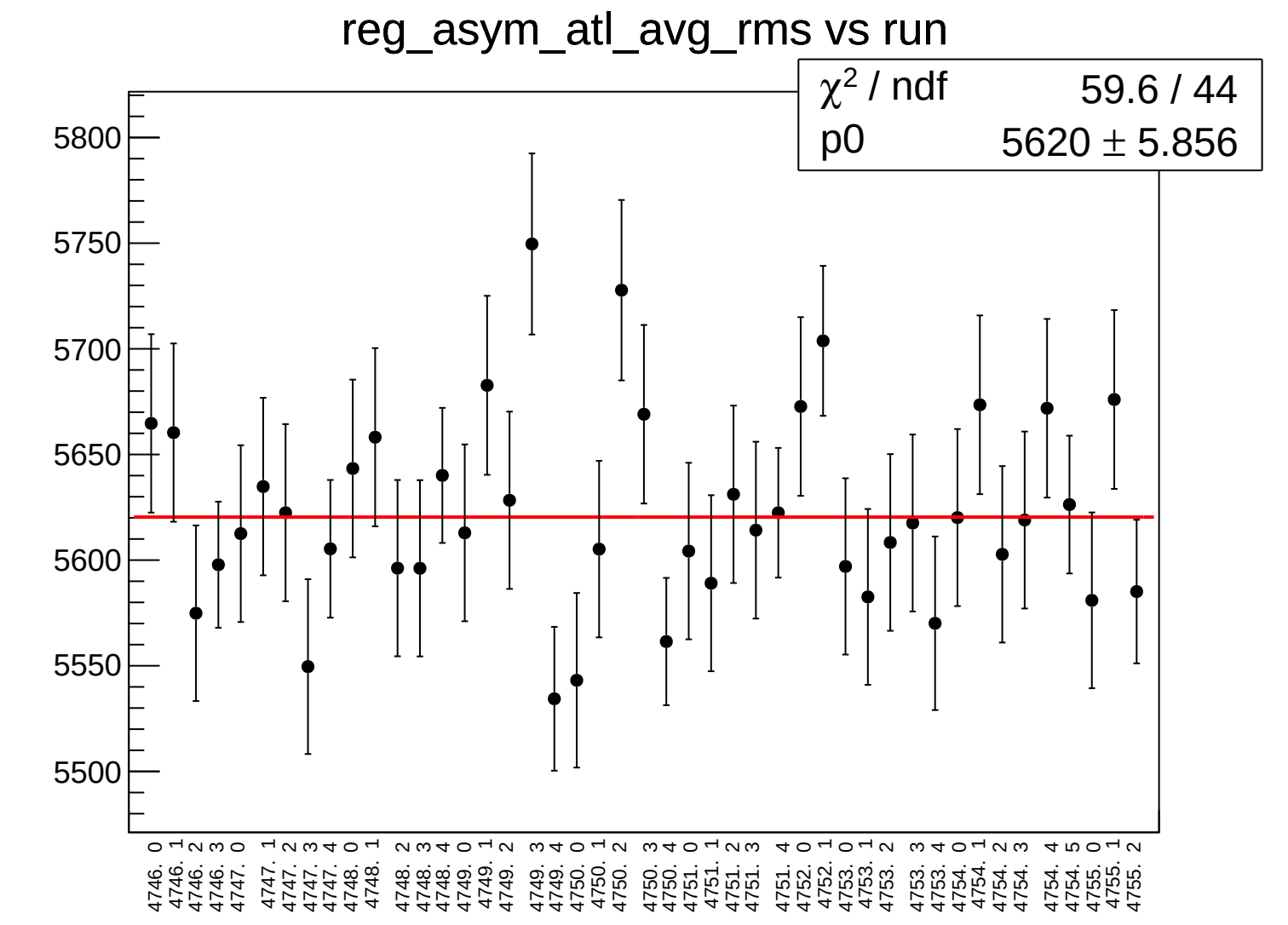

asym_atr2_mean vs run
×10^3
χ² / ndf 60.38 / 44
p0 2.206e+04 ± 1.111e+04
pull
Entries 45
Mean −102
Std Dev 122.9

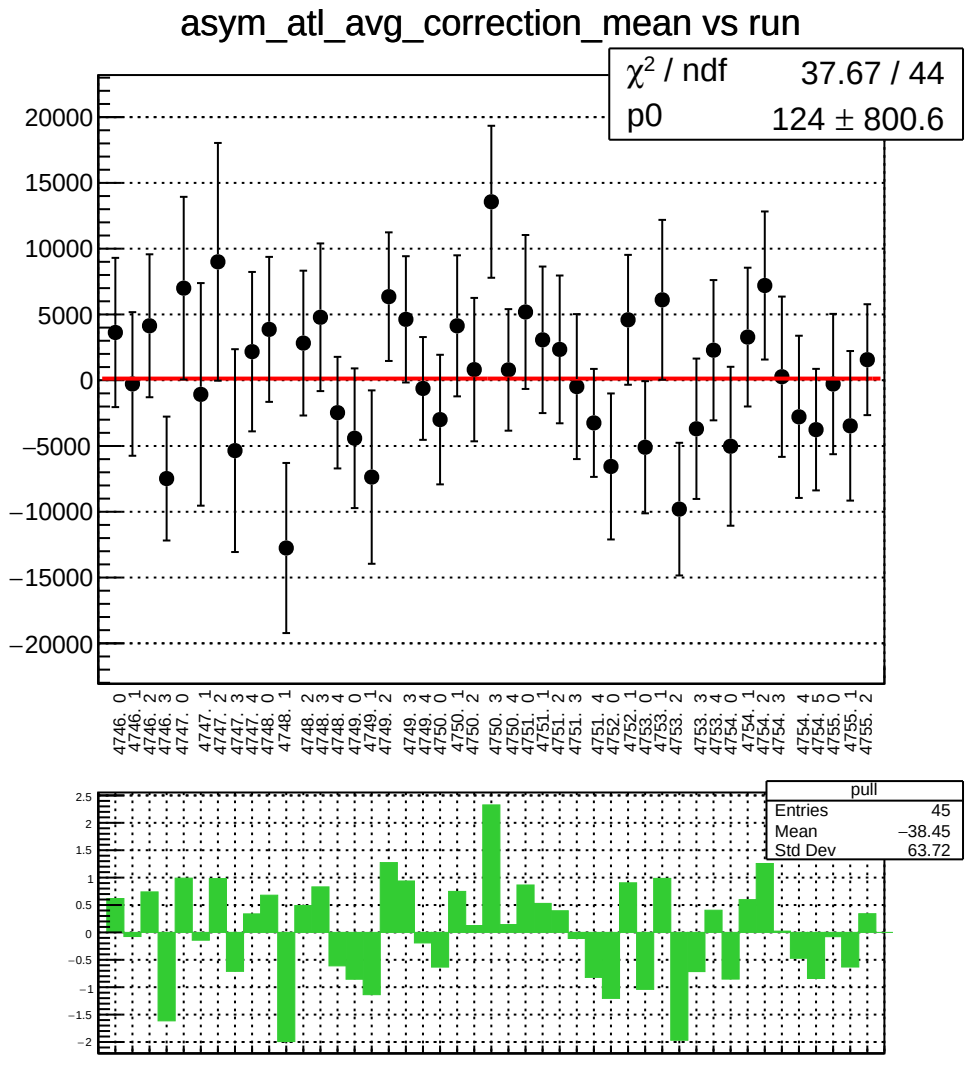

pull1D
Entries 45
Mean 0.01596
Std Dev 1.158

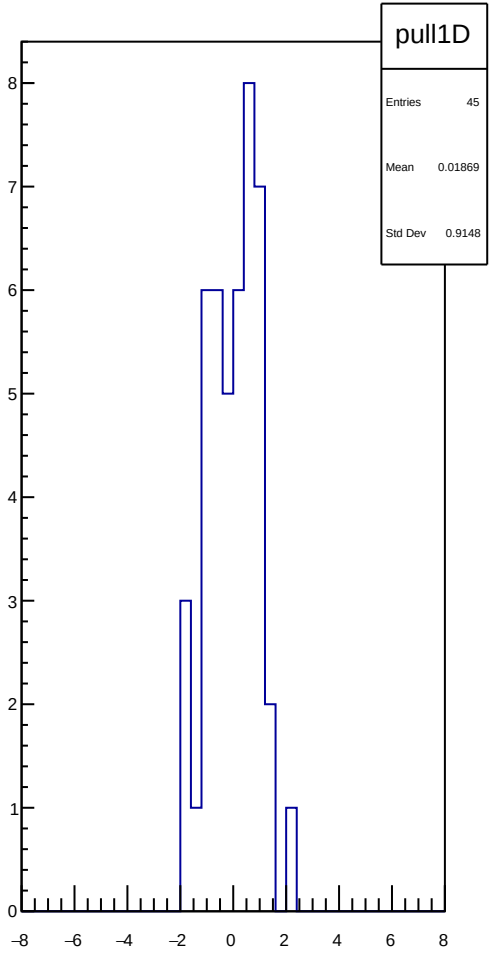

asym_atr2_rms vs run
χ² / ndf 49.08 / 44
p0 7536 ± 7.853
7750
7700
7650
7600
7550
7500
7450
7400
7350
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

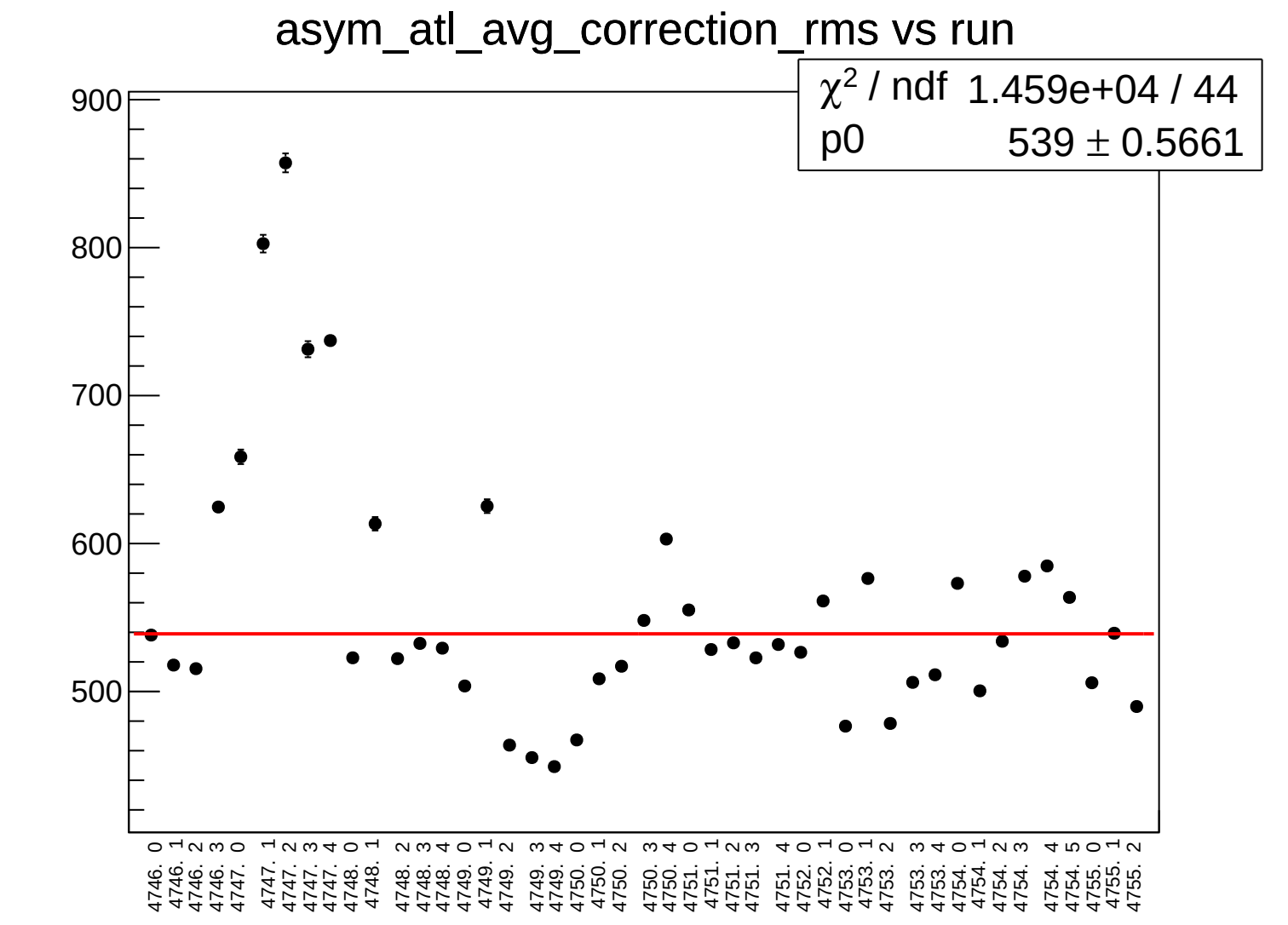

reg_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 58.14 / 44
p0 496.7 ± 8282
pull
Entries 45
Mean 447.3
Std Dev 426.7

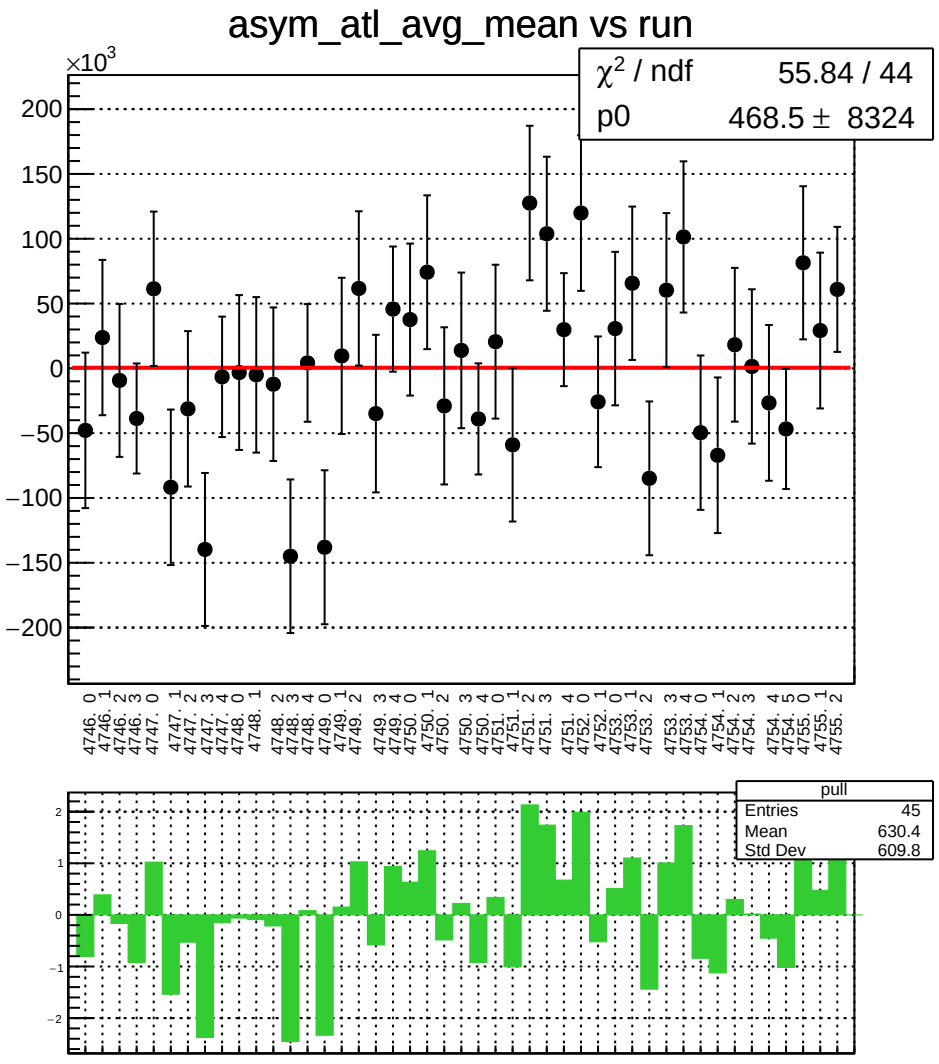

pull1D
Entries 45
Mean 0.01003
Std Dev 1.137

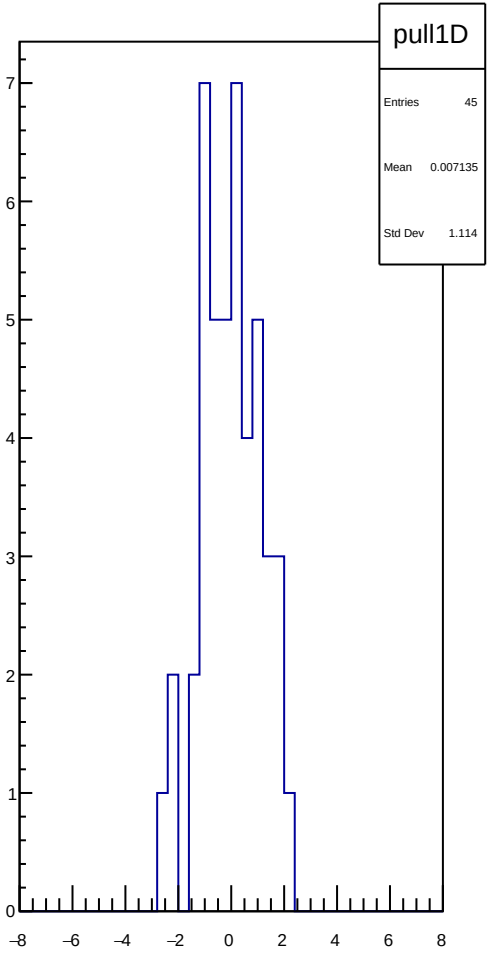

reg_asym_atl_avg_rms vs run
χ² / ndf 59.6 / 44
p0 5620 ± 5.856
5800
5750
5700
5650
5600
5550
5500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

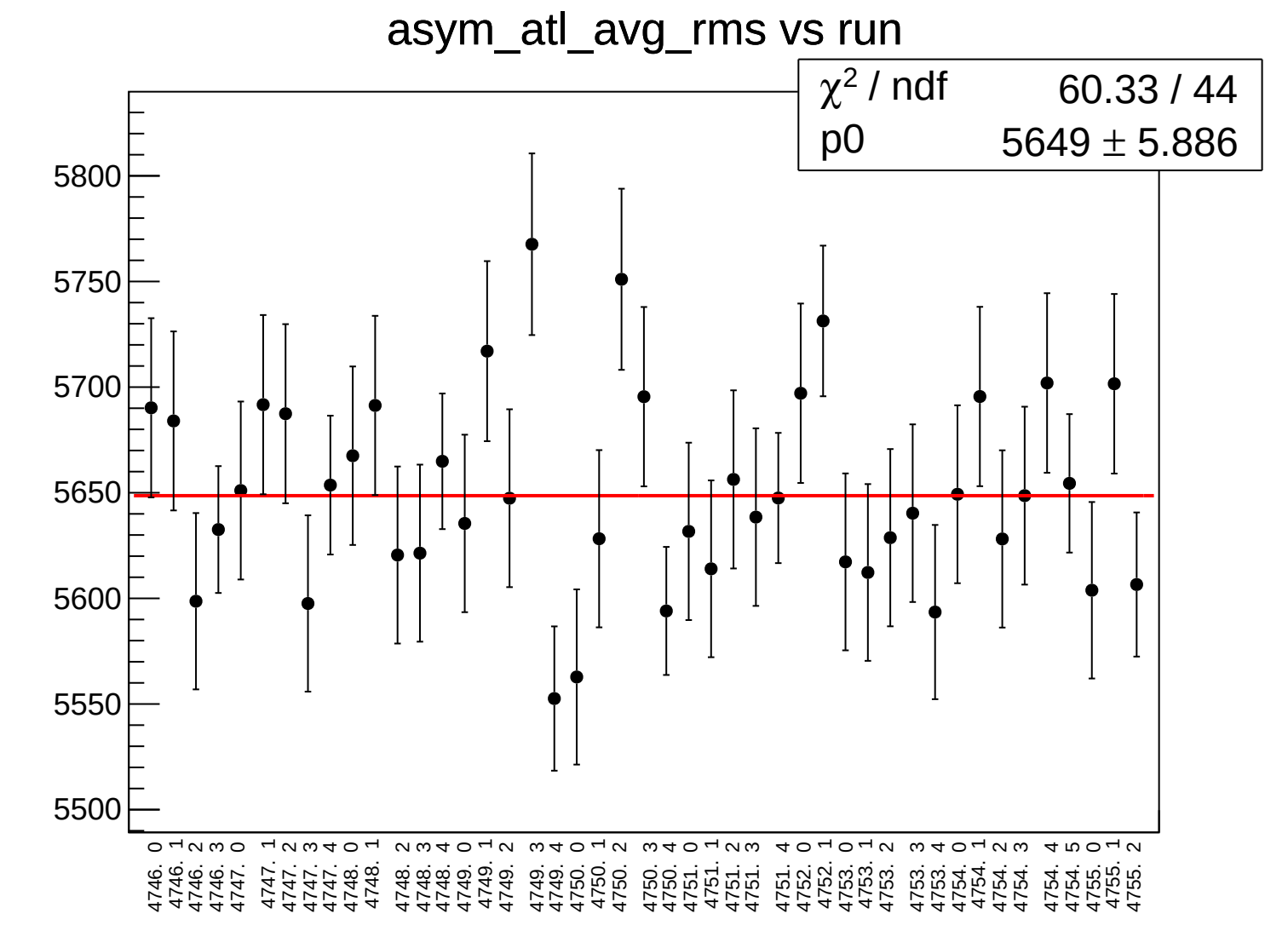

asym_atl_avg_correction_mean vs run
χ² / ndf 37.67 / 44
p0 124 ± 800.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −38.45
Std Dev 63.72
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

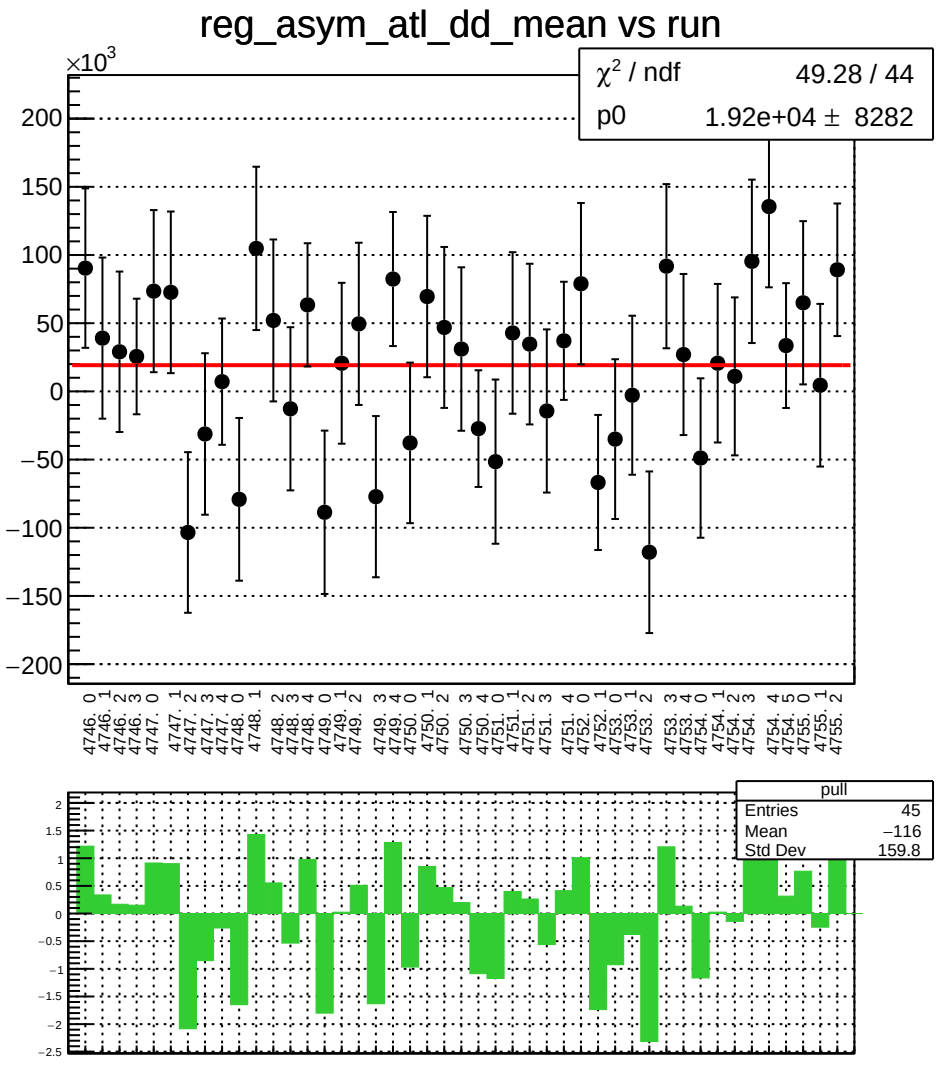

pull1D
Entries 45
Mean 0.01869
Std Dev 0.9148
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

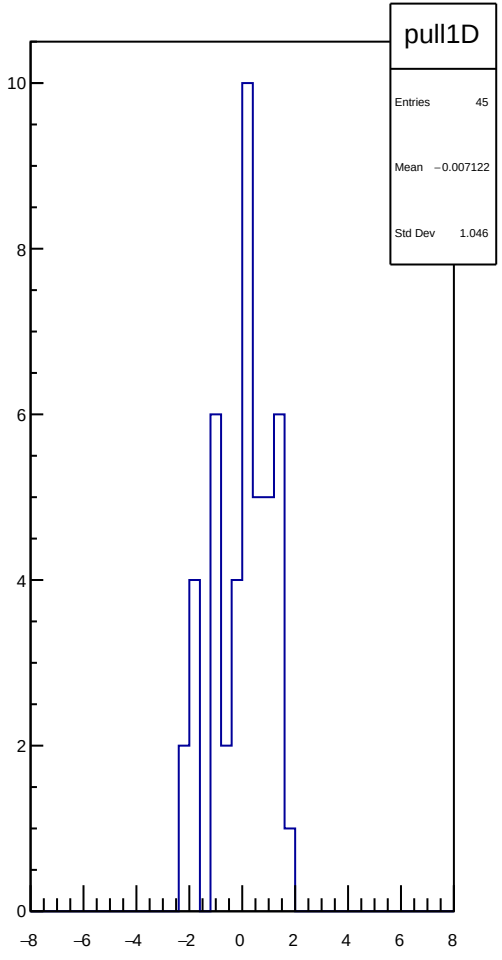

asym_atl_avg_correction_rms vs run
χ² / ndf 1.459e+04 / 44
p0 539 ± 0.5661
900
800
700
600
500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

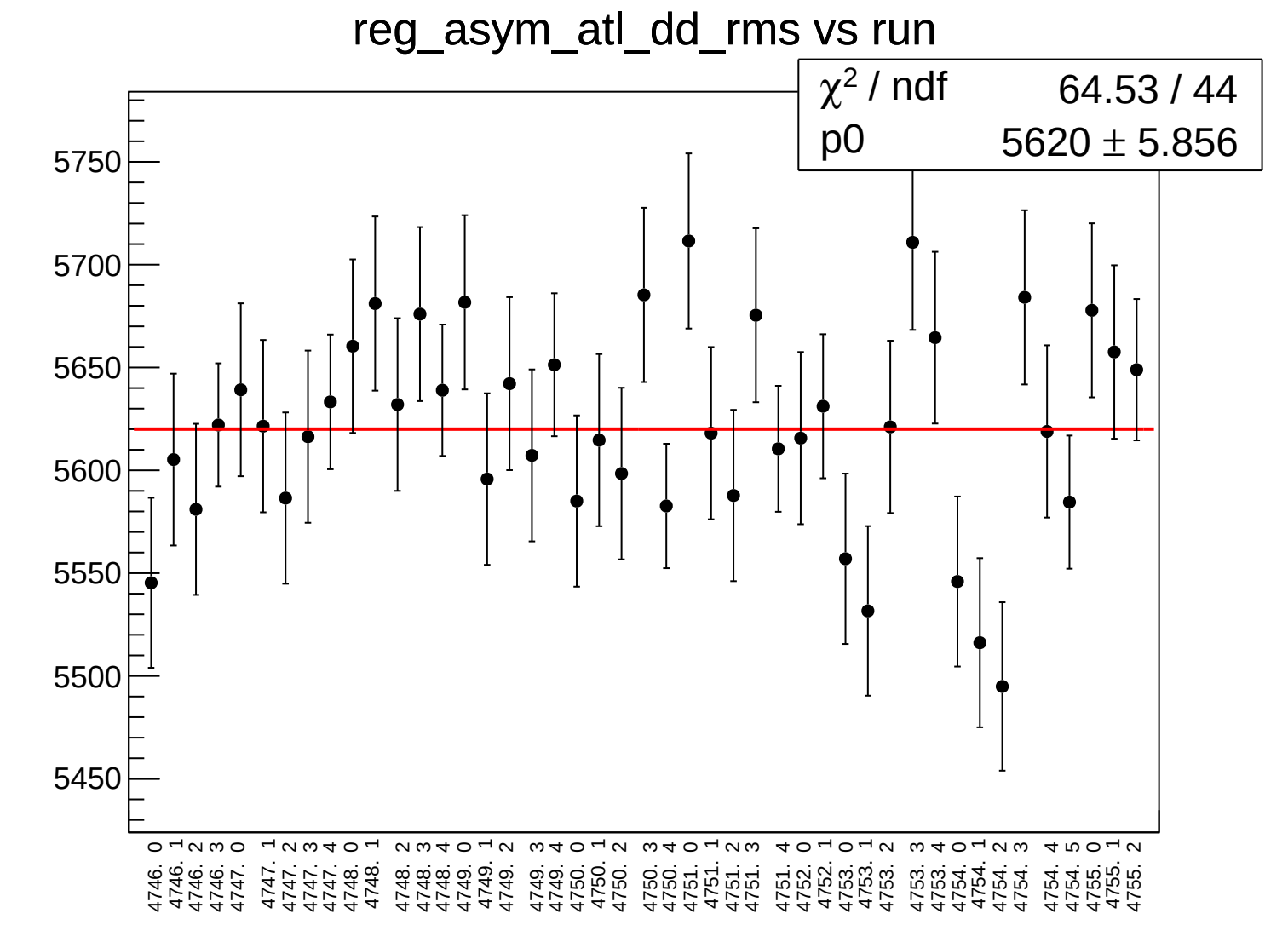

asym_atl_avg_mean vs run
×10^3
χ² / ndf 55.84 / 44
p0 468.5 ± 8324
200
150
100
50
0
−50
−100
−150
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 630.4
Std Dev 609.8
2
1
0
−1
−2

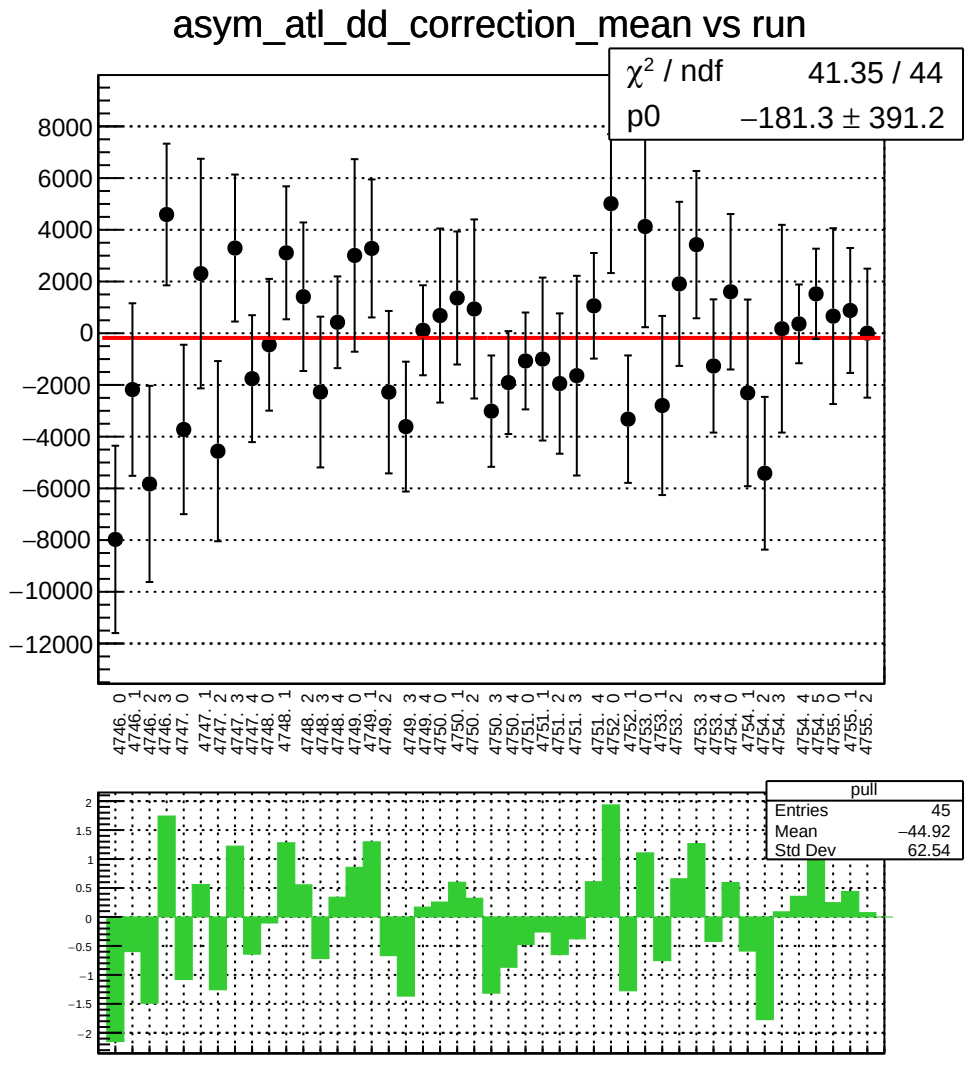

pull1D
Entries 45
Mean 0.007135
Std Dev 1.114
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

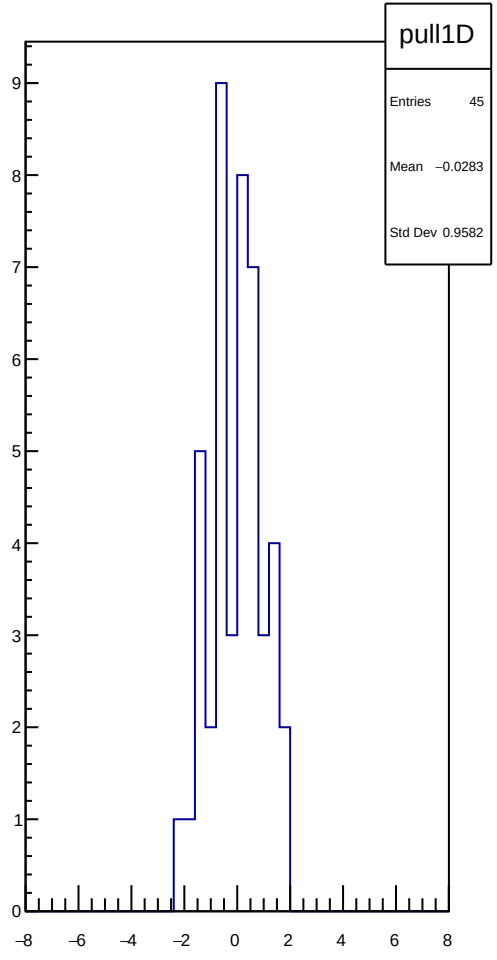

asym_atl_avg_rms vs run
χ^2 / ndf 60.33 / 44
p0 5649 ± 5.886
5800
5750
5700
5650
5600
5550
5500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

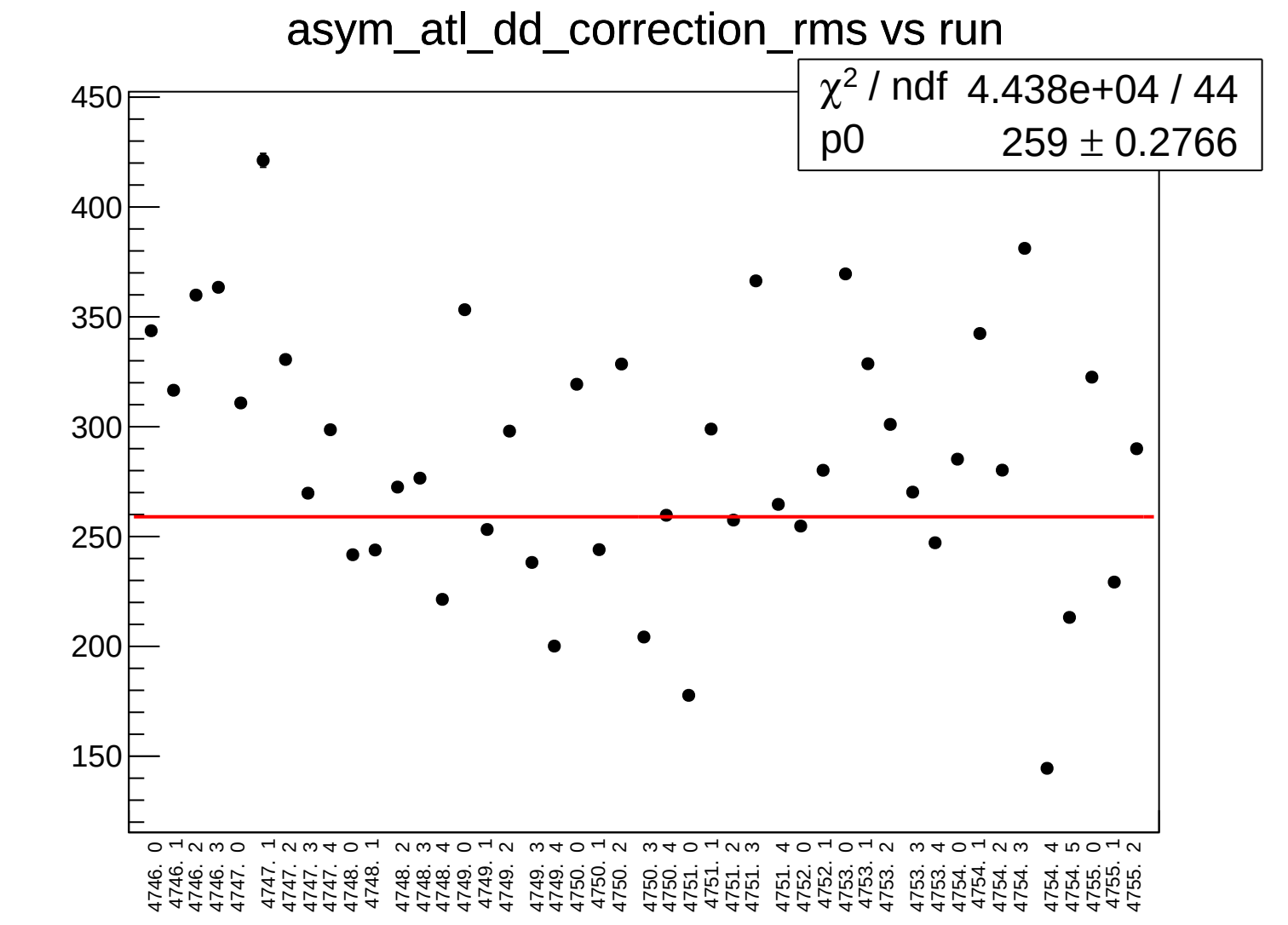

reg_asym_atl_dd_mean vs run
×10^3
χ² / ndf 49.28 / 44
p0 1.92e+04 ± 8282
200
150
100
50
0
−50
−100
−150
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −116
Std Dev 159.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

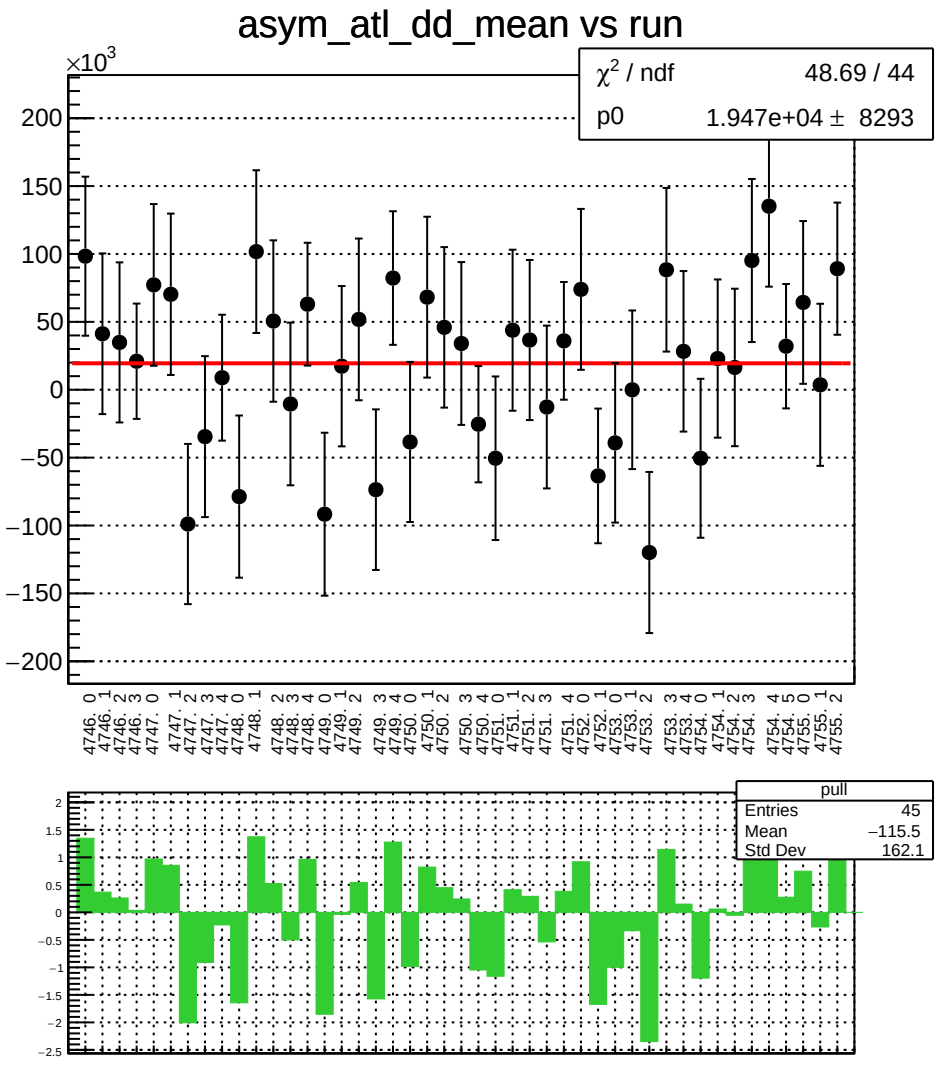

pull1D
Entries 45
Mean −0.007122
Std Dev 1.046
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

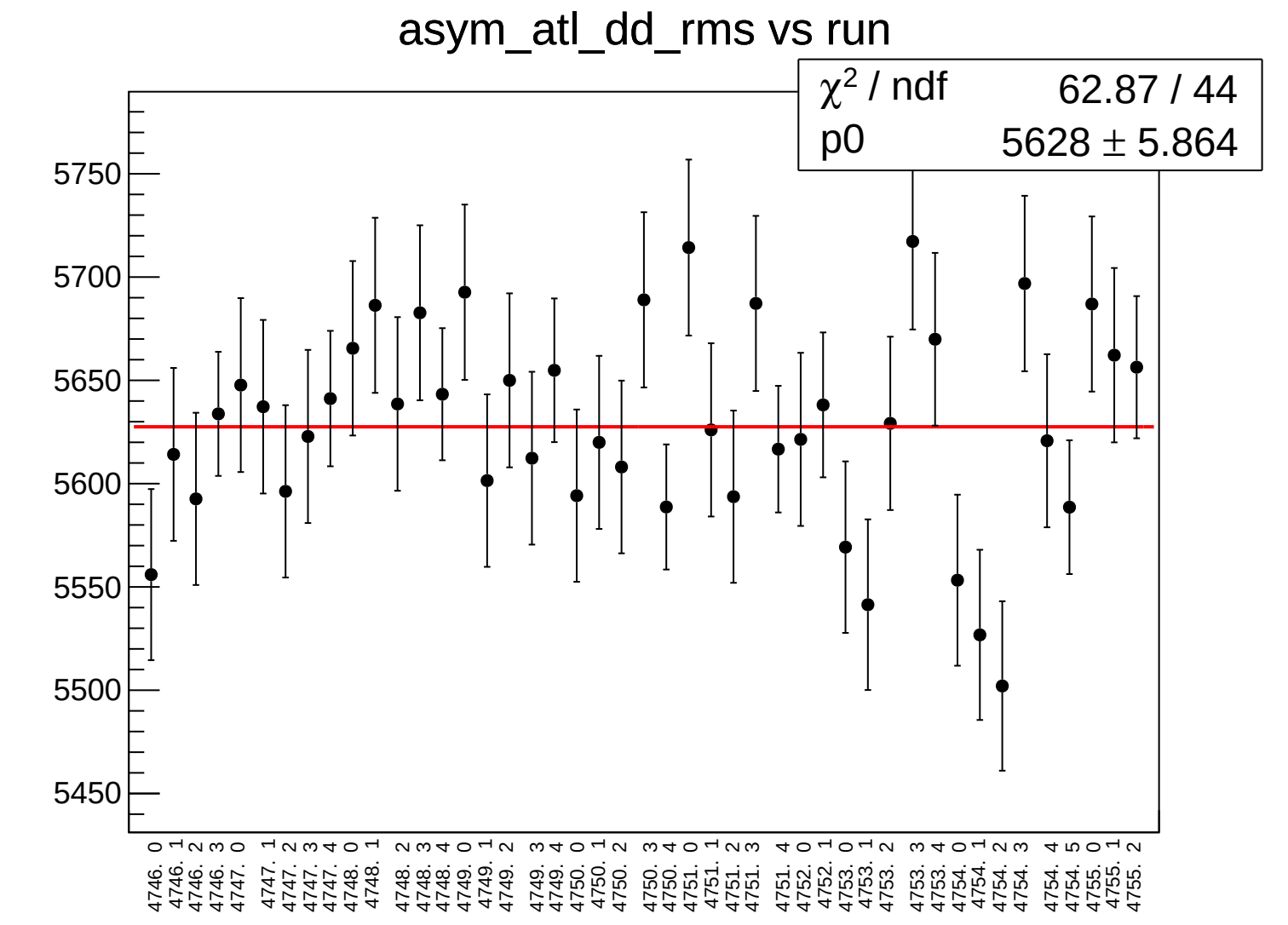

reg_asym_atl_dd_rms vs run
χ² / ndf 64.53 / 44
p0 5620 ± 5.856
5750
5700
5650
5600
5550
5500
5450
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

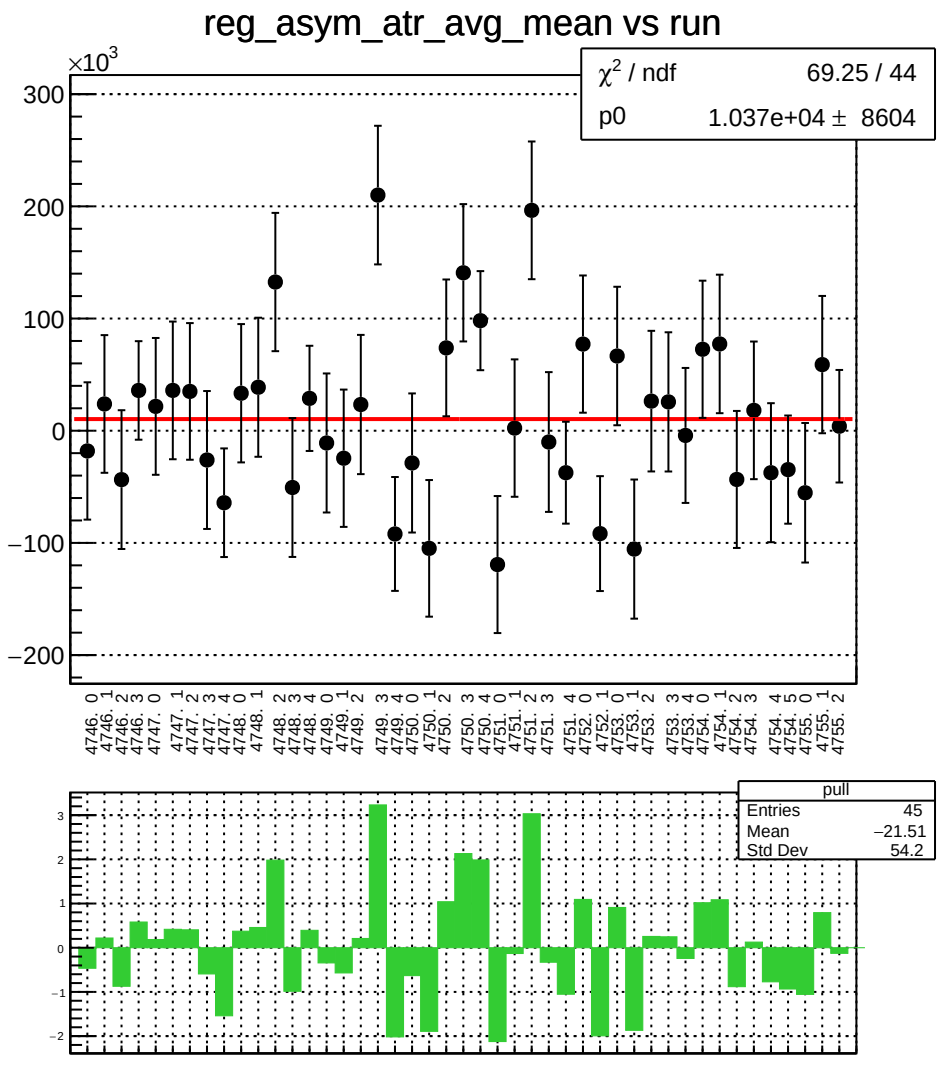

asym_atl_dd_correction_mean vs run
χ² / ndf 41.35 / 44
p0 −181.3 ± 391.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −44.92
Std Dev 62.54
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

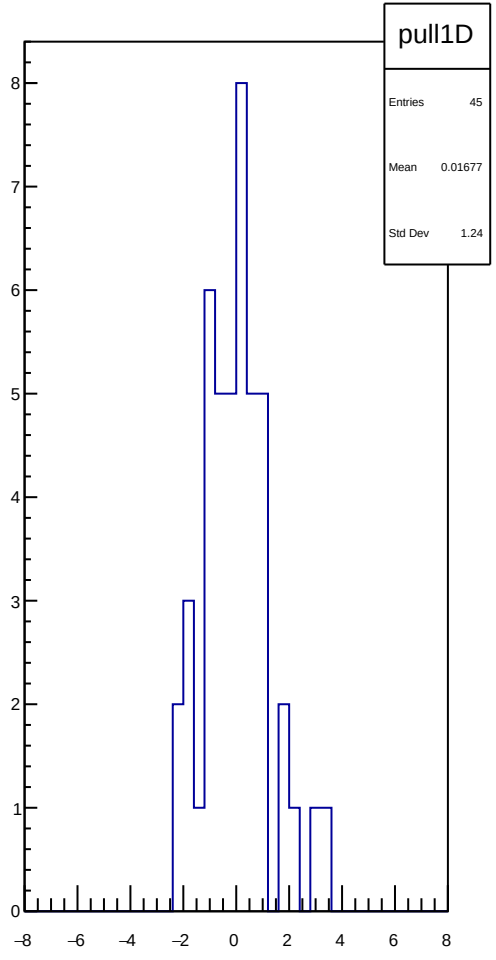

pull1D
Entries 45
Mean −0.0283
Std Dev 0.9582
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

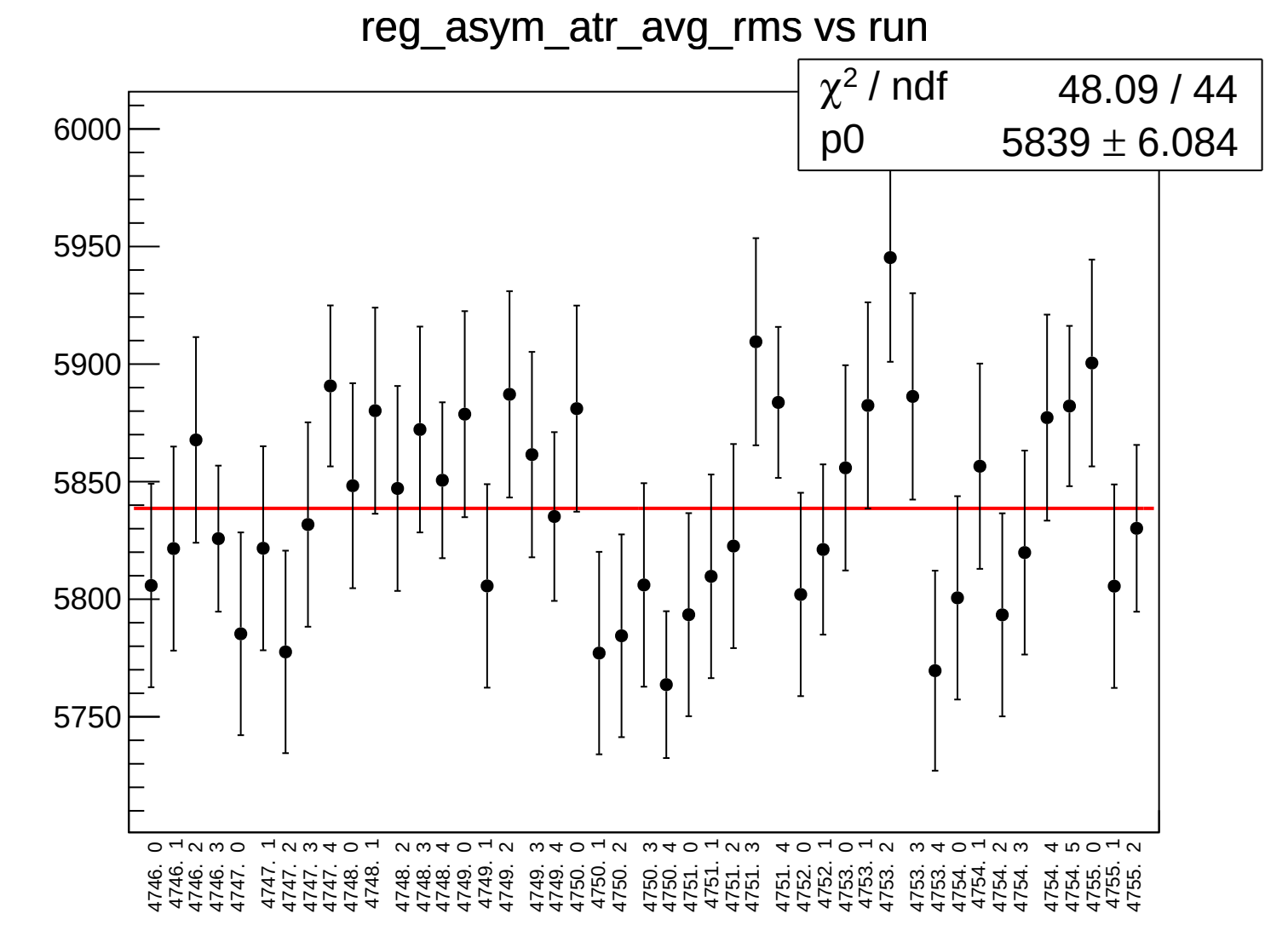

asym_atl_dd_correction_rms vs run
χ² / ndf 4.438e+04 / 44
p0 259 ± 0.2766
450
400
350
300
250
200
150
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

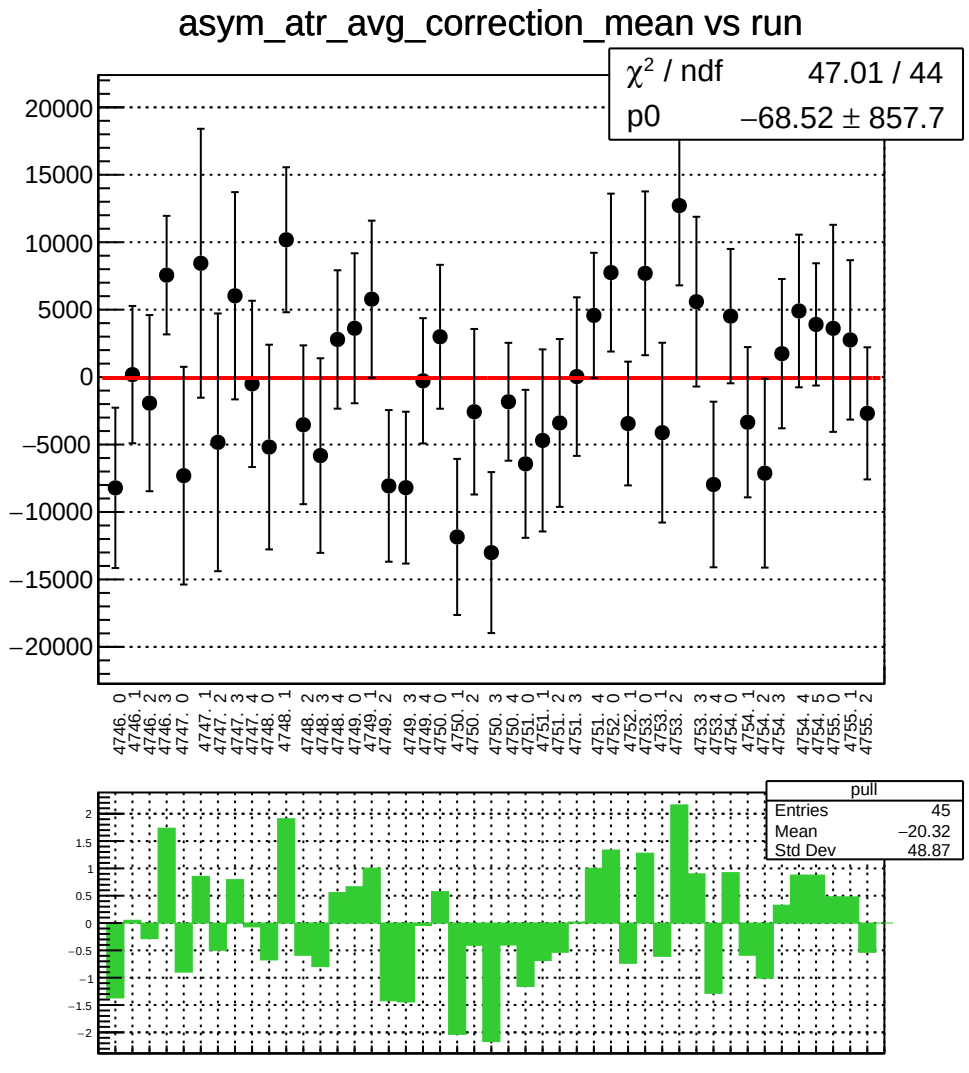

asym_atl_dd_mean vs run
×10^3
χ² / ndf 48.69 / 44
p0 1.947e+04 ± 8293
200
150
100
50
0
−50
−100
−150
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −115.5
Std Dev 162.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.006412
Std Dev 1.04
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

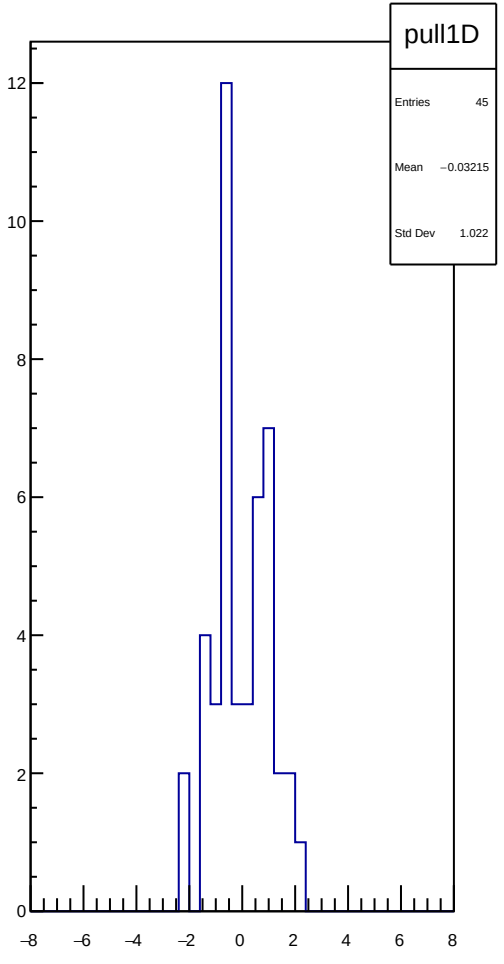

asym_atl_dd_rms vs run
χ^2 / ndf 62.87 / 44
p0 5628 ± 5.864
5750
5700
5650
5600
5550
5500
5450
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

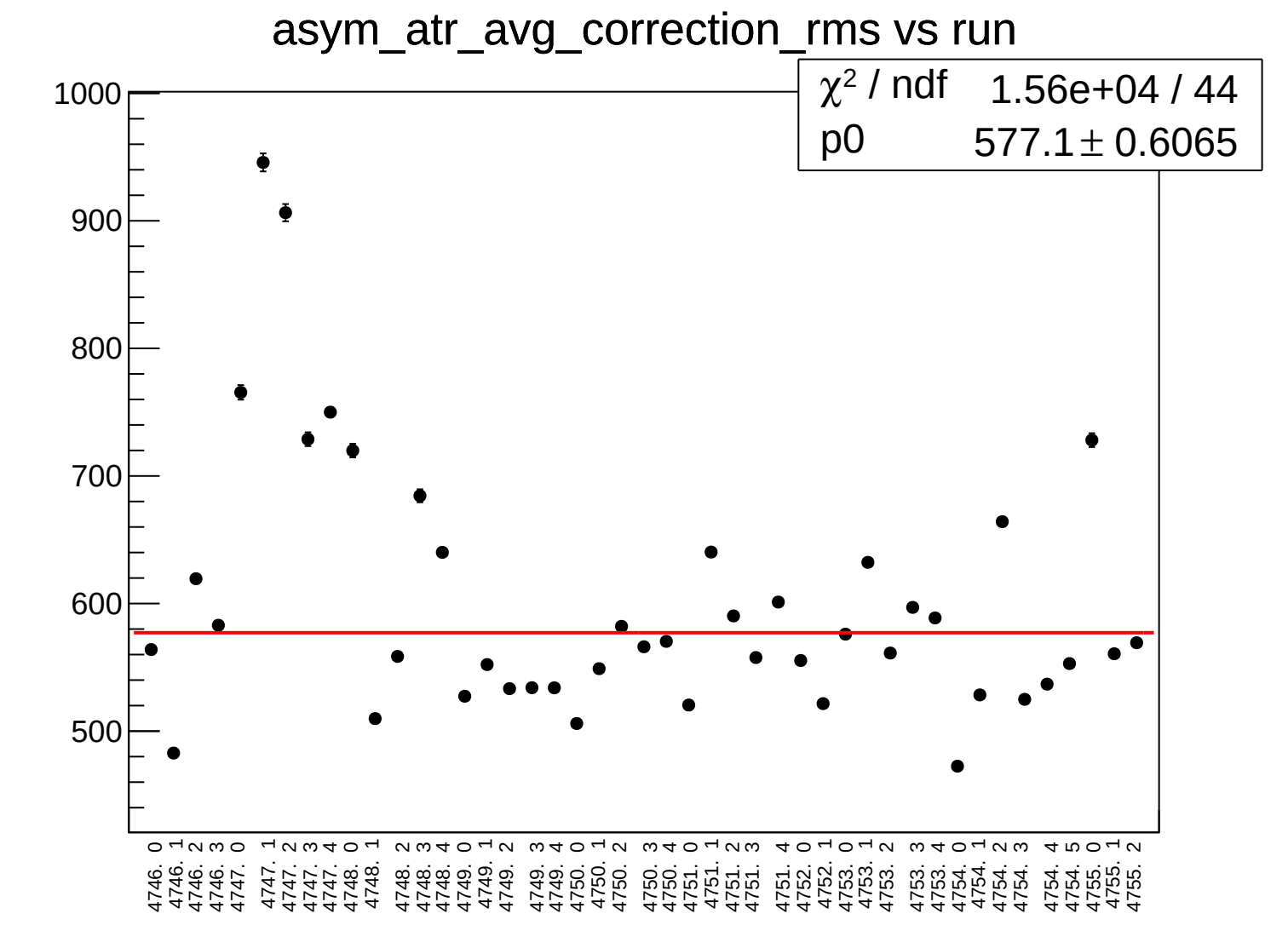

reg_asym_atr_avg_mean vs run
×10^3
χ² / ndf 69.25 / 44
p0 1.037e+04 ± 8604
300
200
100
0
−100
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −21.51
Std Dev 54.2
3
2
1
0
−1
−2

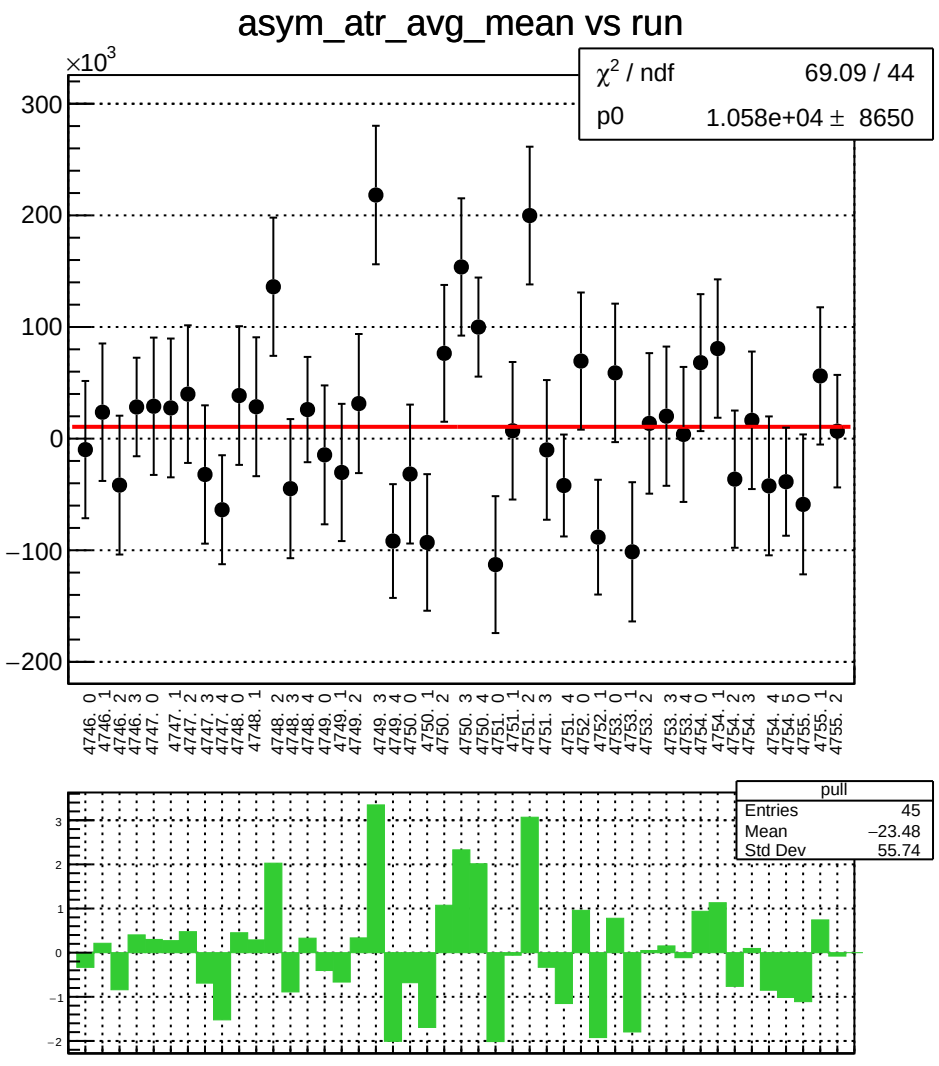

pull1D
Entries 45
Mean 0.01677
Std Dev 1.24
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

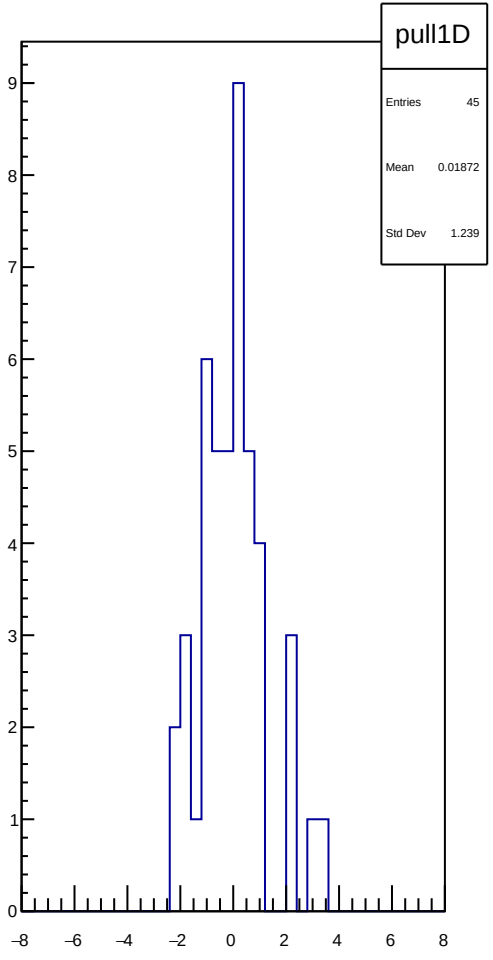

reg_asym_atr_avg_rms vs run
χ² / ndf 48.09 / 44
p0 5839 ± 6.084
6000
5950
5900
5850
5800
5750
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

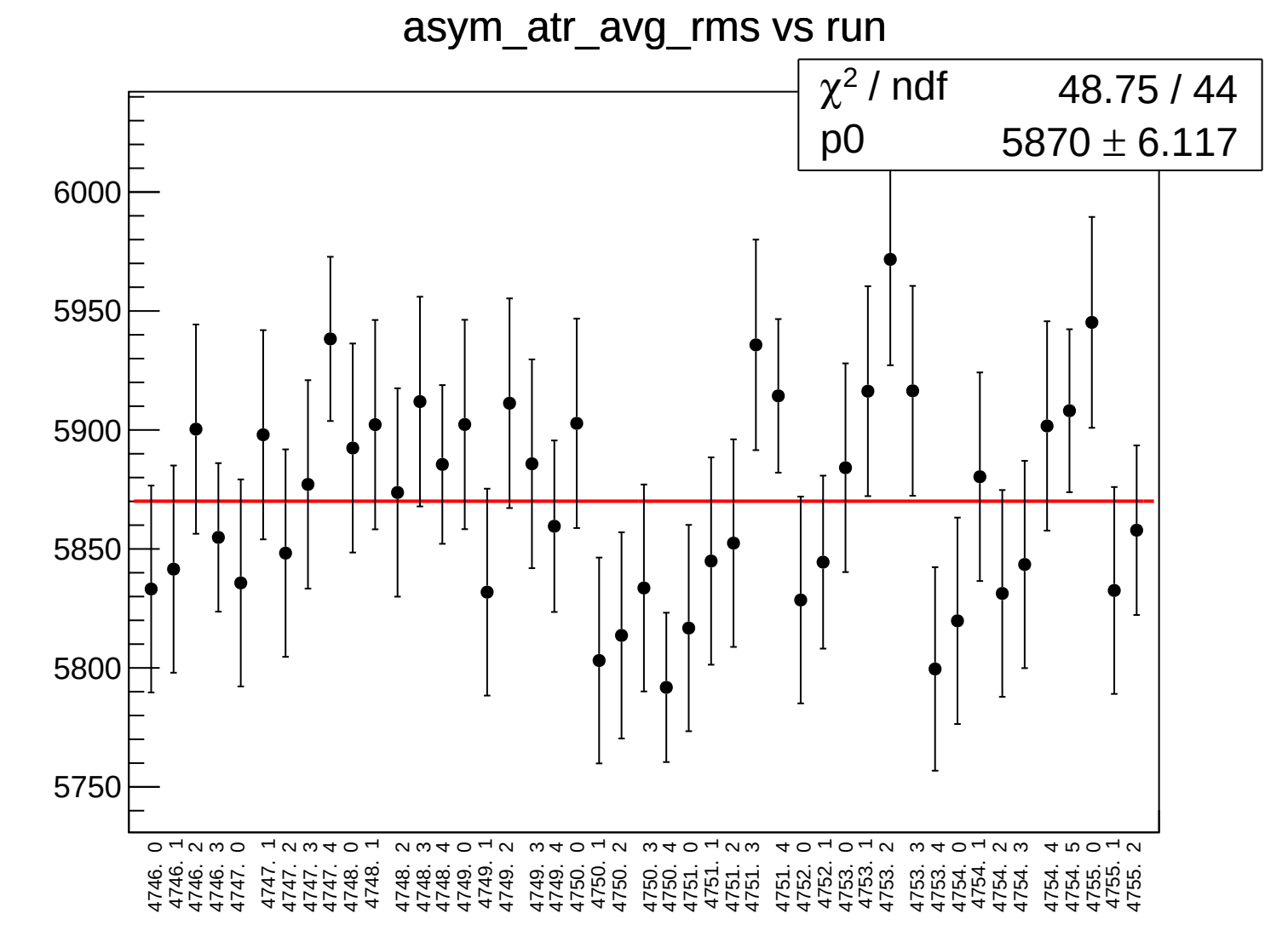

asym_atr_avg_correction_mean vs run
χ² / ndf 47.01 / 44
p0 −68.52 ± 857.7
pull
Entries 45
Mean −20.32
Std Dev 48.87

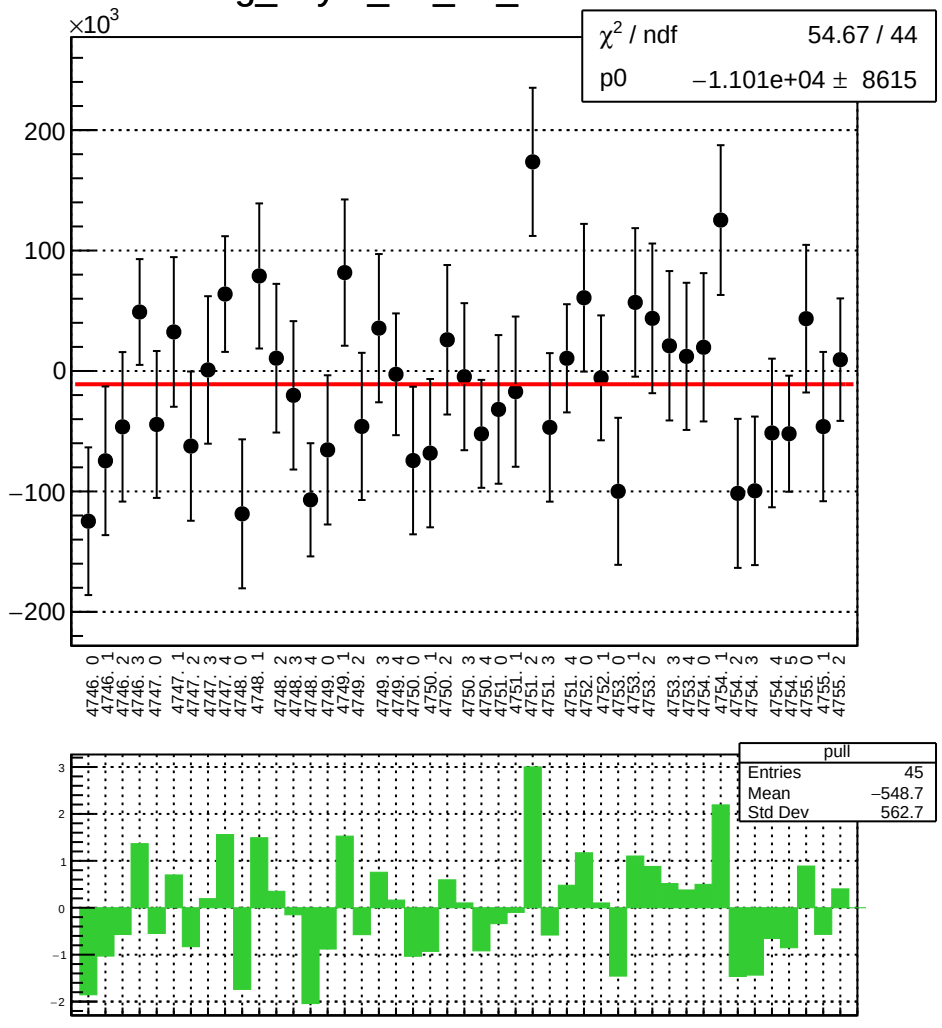

pull1D
Entries 45
Mean −0.03215
Std Dev 1.022

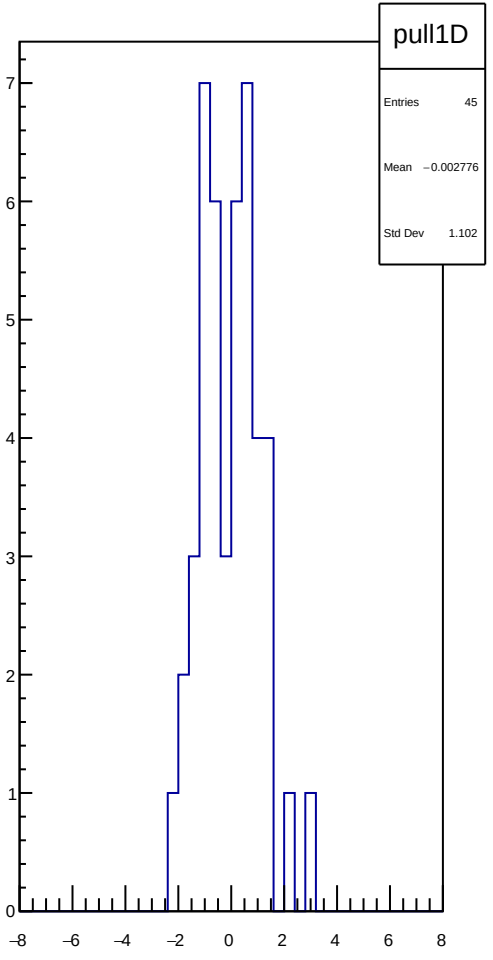

asym_atr_avg_correction_rms vs run
χ² / ndf 1.56e+04 / 44
p0 577.1 ± 0.6065
1000
900
800
700
600
500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

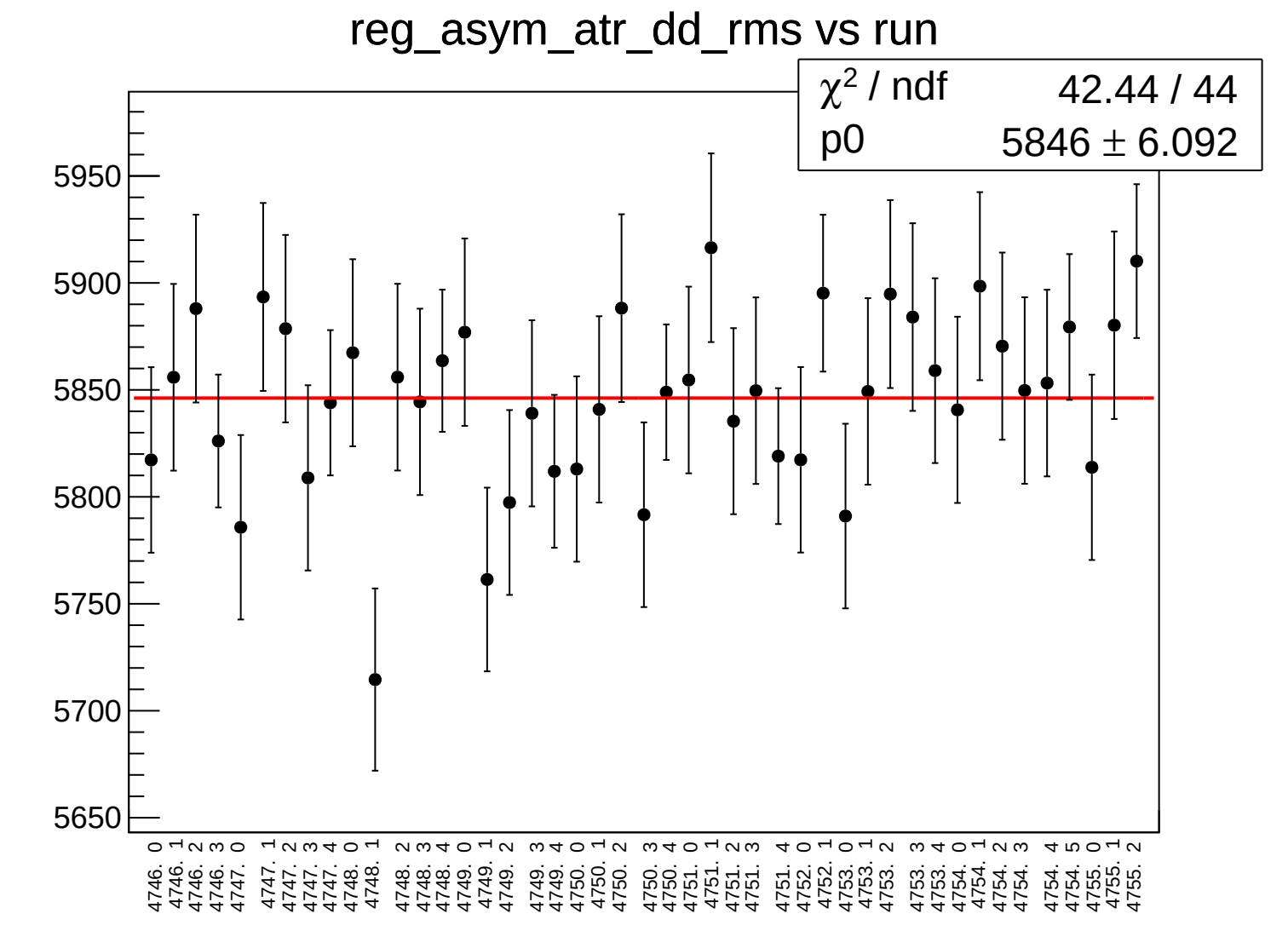

asym_atr_avg_mean vs run
×10^3
χ² / ndf 69.09 / 44
p0 1.058e+04 ± 8650
300
200
100
0
−100
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −23.48
Std Dev 55.74
3
2
1
0
−1
−2

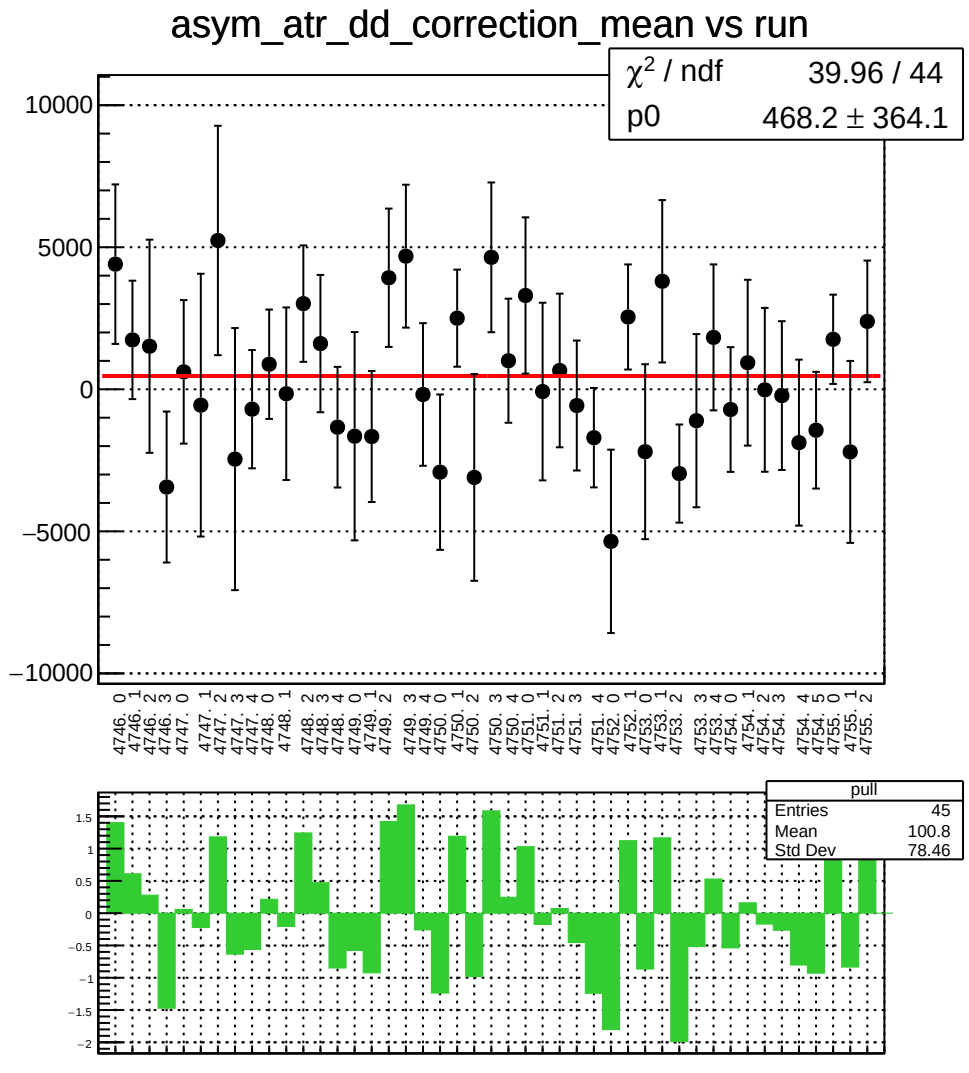

pull1D
Entries 45
Mean 0.01872
Std Dev 1.239
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

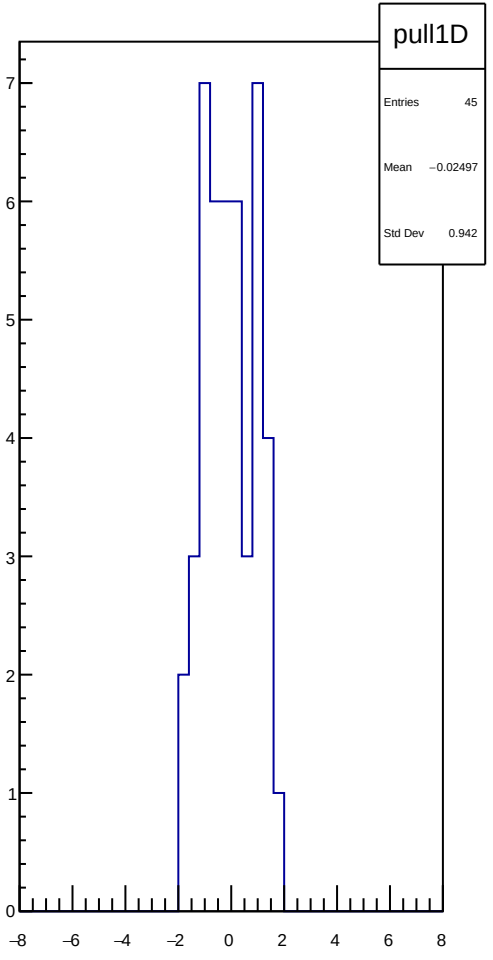

asym_atr_avg_rms vs run
χ^2 / ndf 48.75 / 44
p0 5870 ± 6.117
6000
5950
5900
5850
5800
5750
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

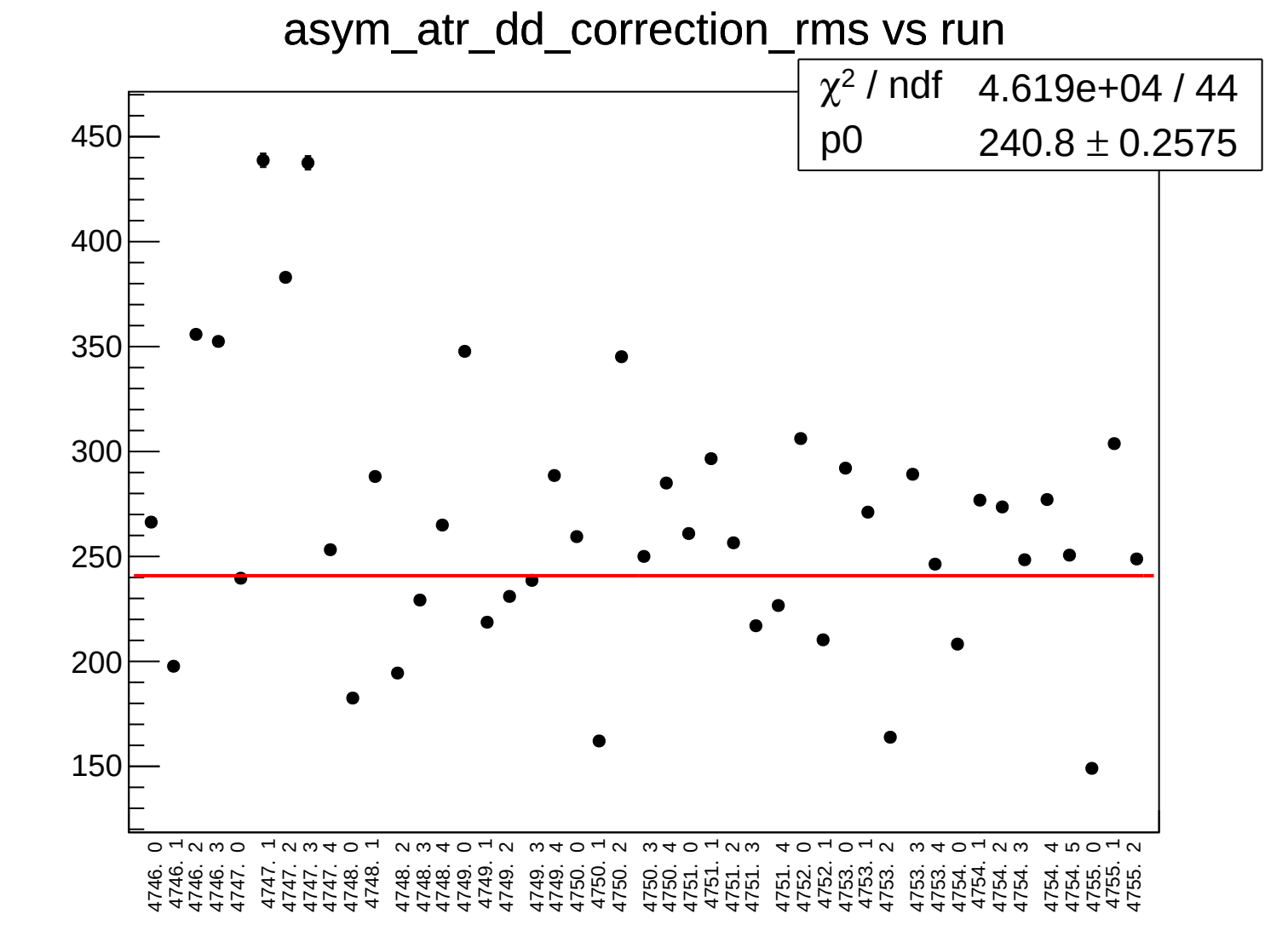

reg_asym_atr_dd_mean vs run
×10^3
χ² / ndf 54.67 / 44
p0 −1.101e+04 ± 8615
200
100
0
−100
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −548.7
Std Dev 562.7
3
2
1
0
−1
−2

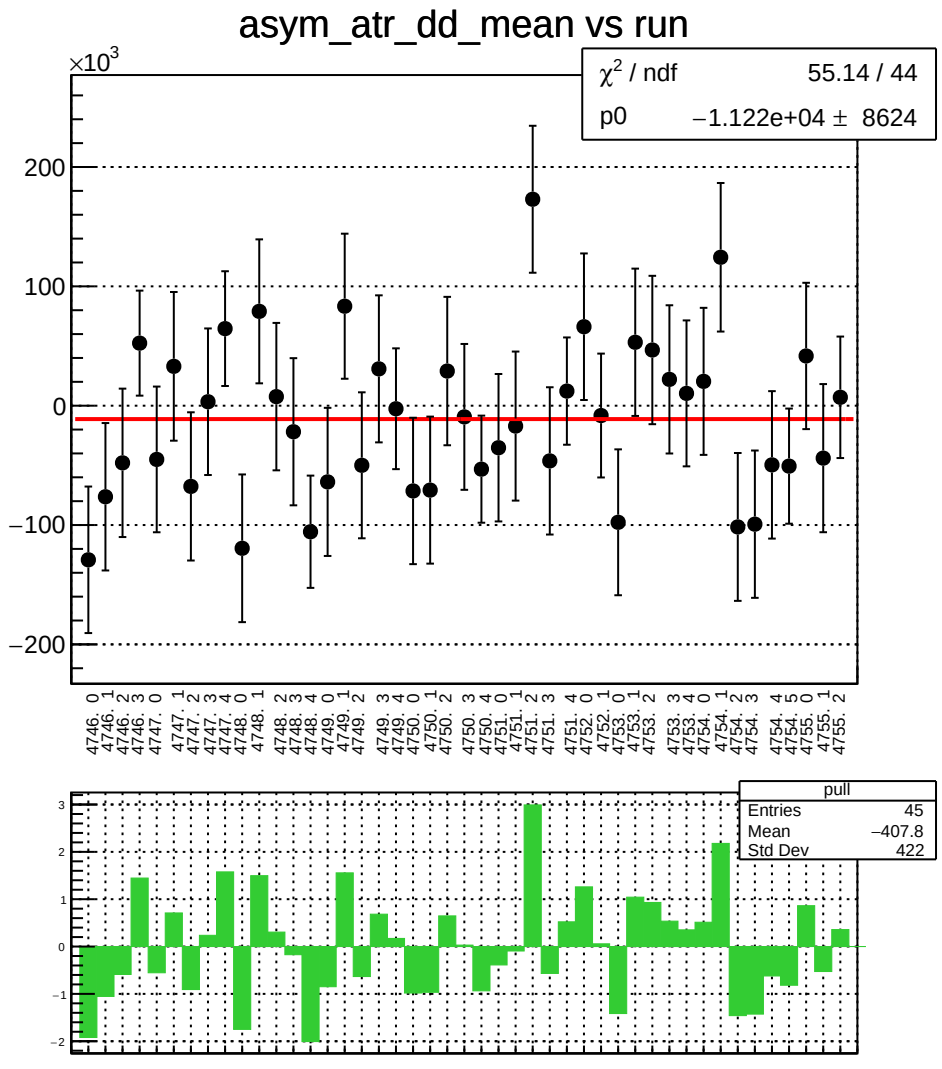

pull1D
Entries 45
Mean −0.002776
Std Dev 1.102
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

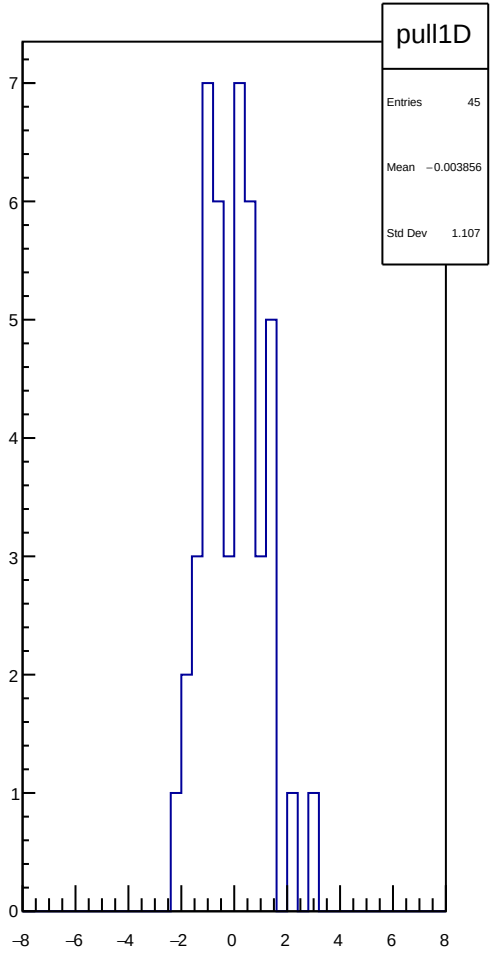

reg_asym_atr_dd_rms vs run
χ² / ndf 42.44 / 44
p0 5846 ± 6.092
5950
5900
5850
5800
5750
5700
5650
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

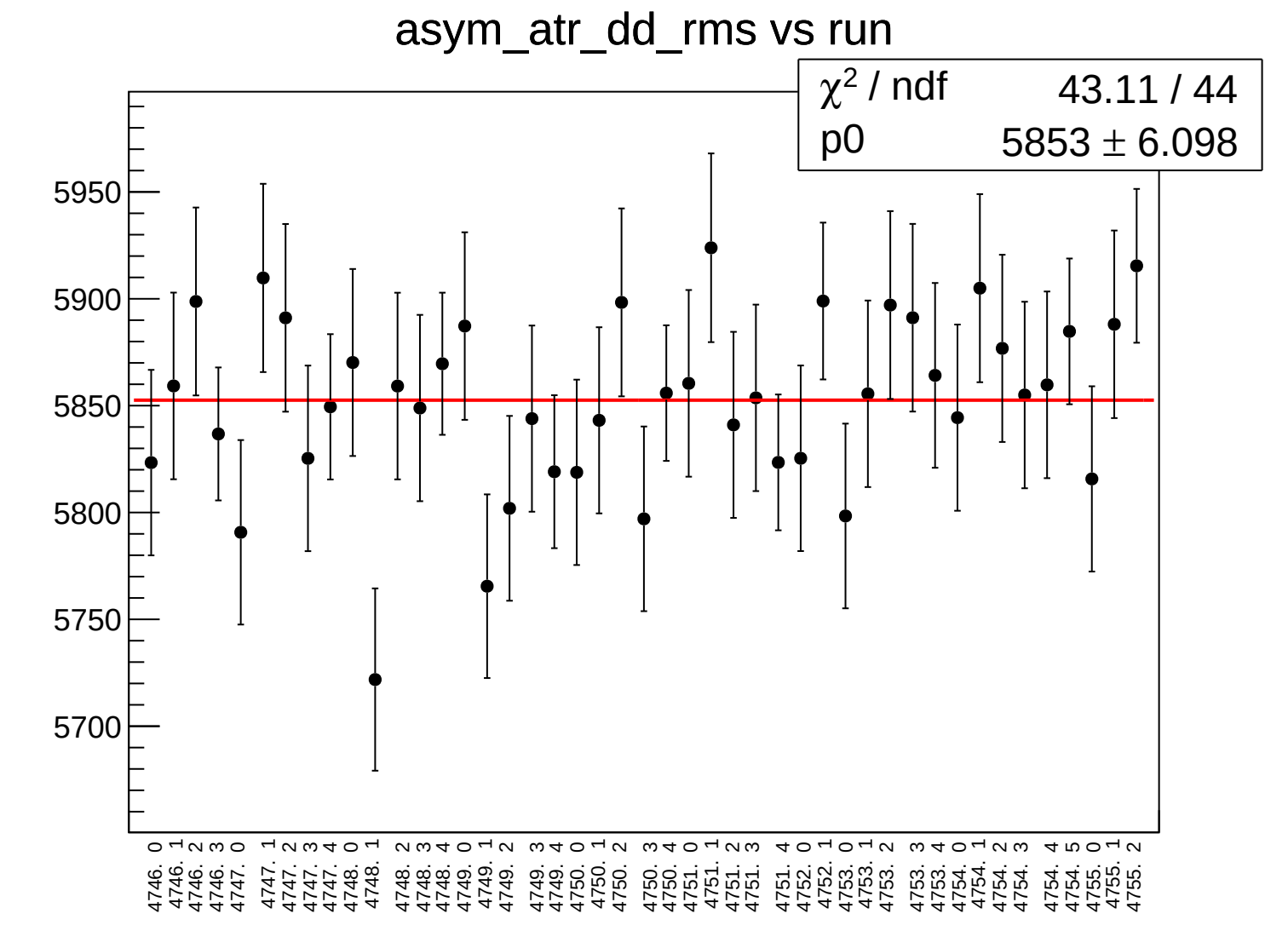

asym_atr_dd_correction_mean vs run
χ² / ndf 39.96 / 44
p0 468.2 ± 364.1
10000
5000
0
−5000
−10000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 100.8
Std Dev 78.46
1.5
1
0.5
0
−0.5
−1
−1.5
−2

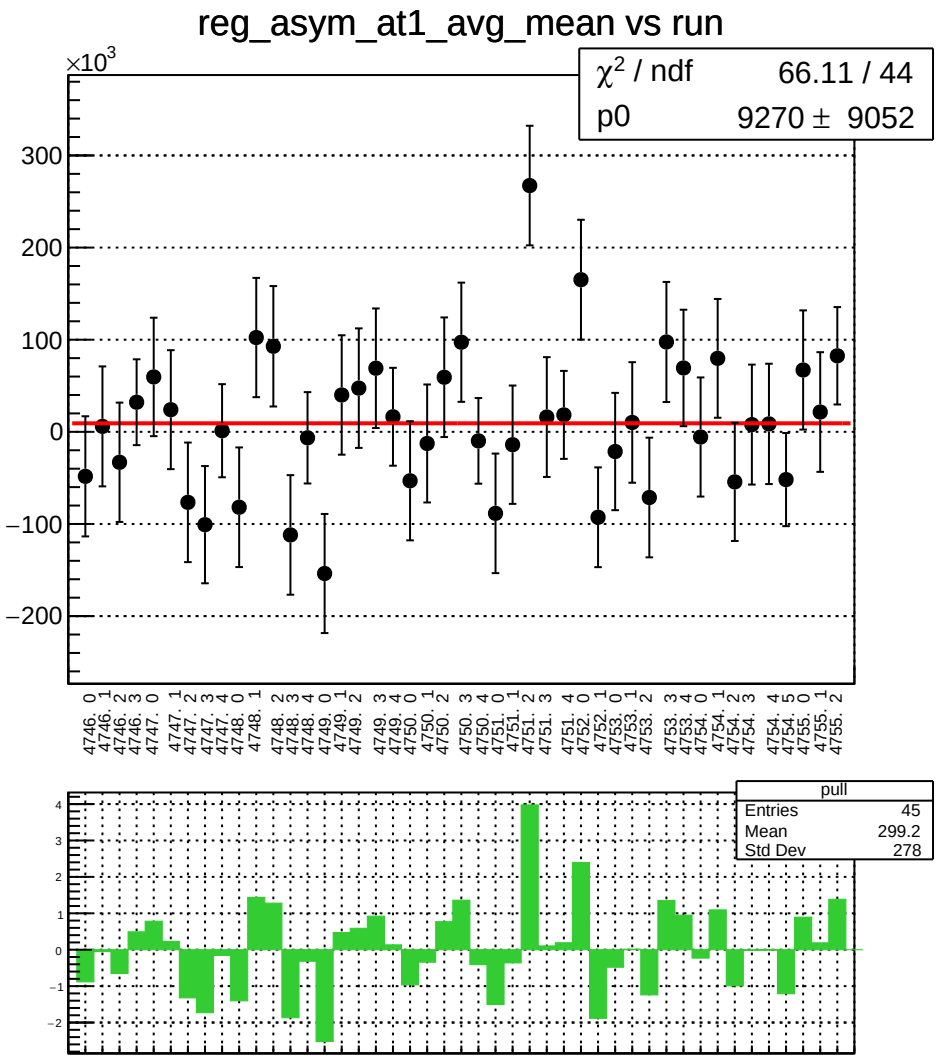

pull1D
Entries 45
Mean −0.02497
Std Dev 0.942
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

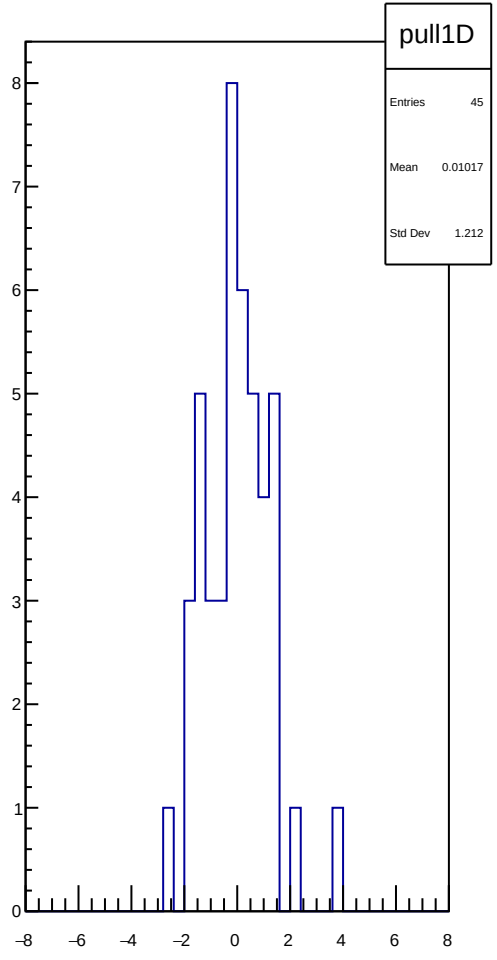

asym_atr_dd_correction_rms vs run
χ² / ndf 4.619e+04 / 44
p0 240.8 ± 0.2575
450
400
350
300
250
200
150
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

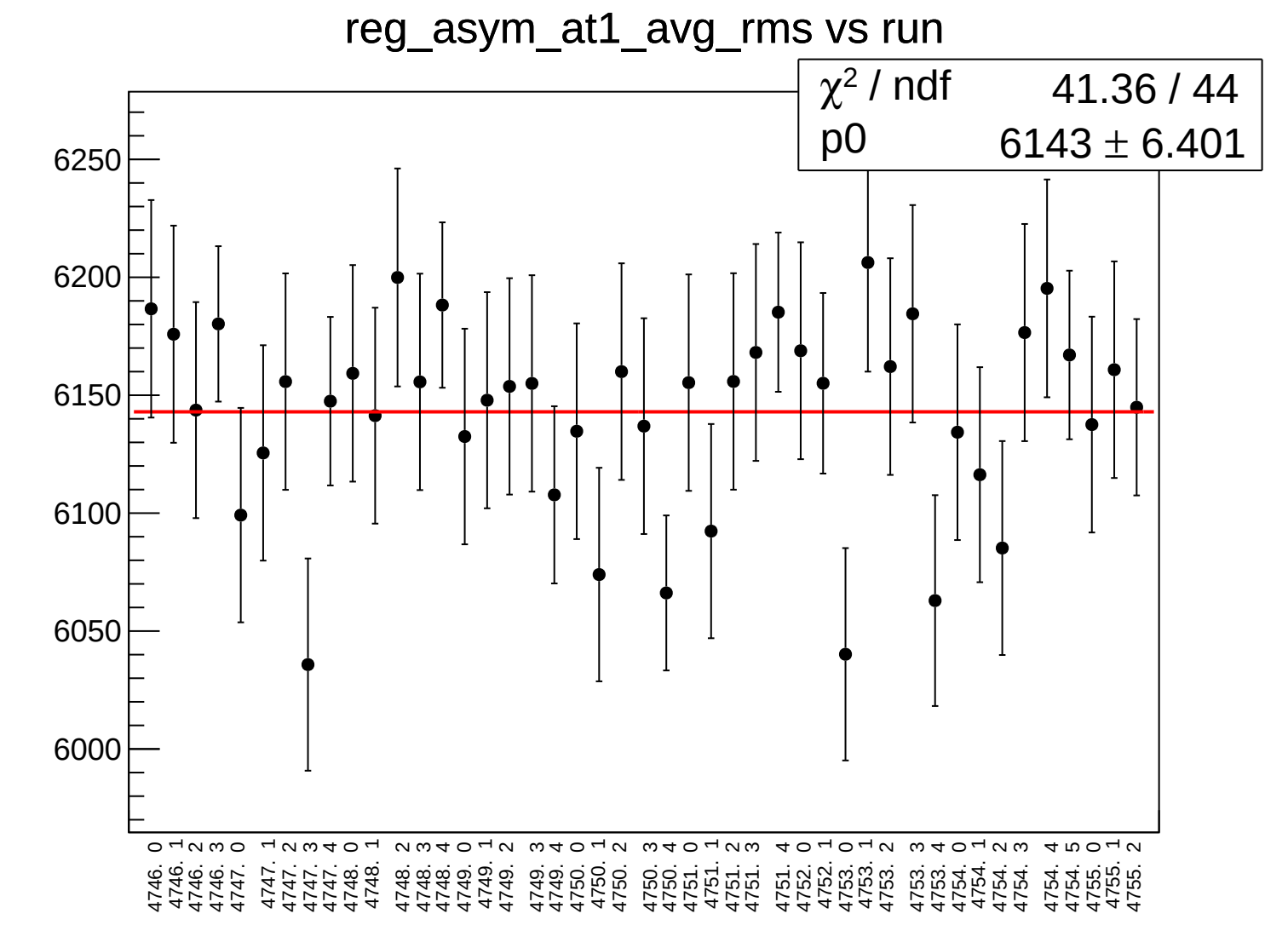

asym_atr_dd_mean vs run
×10^3
χ² / ndf 55.14 / 44
p0 −1.122e+04 ± 8624
200
100
0
−100
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −407.8
Std Dev 422
3
2
1
0
−1
−2

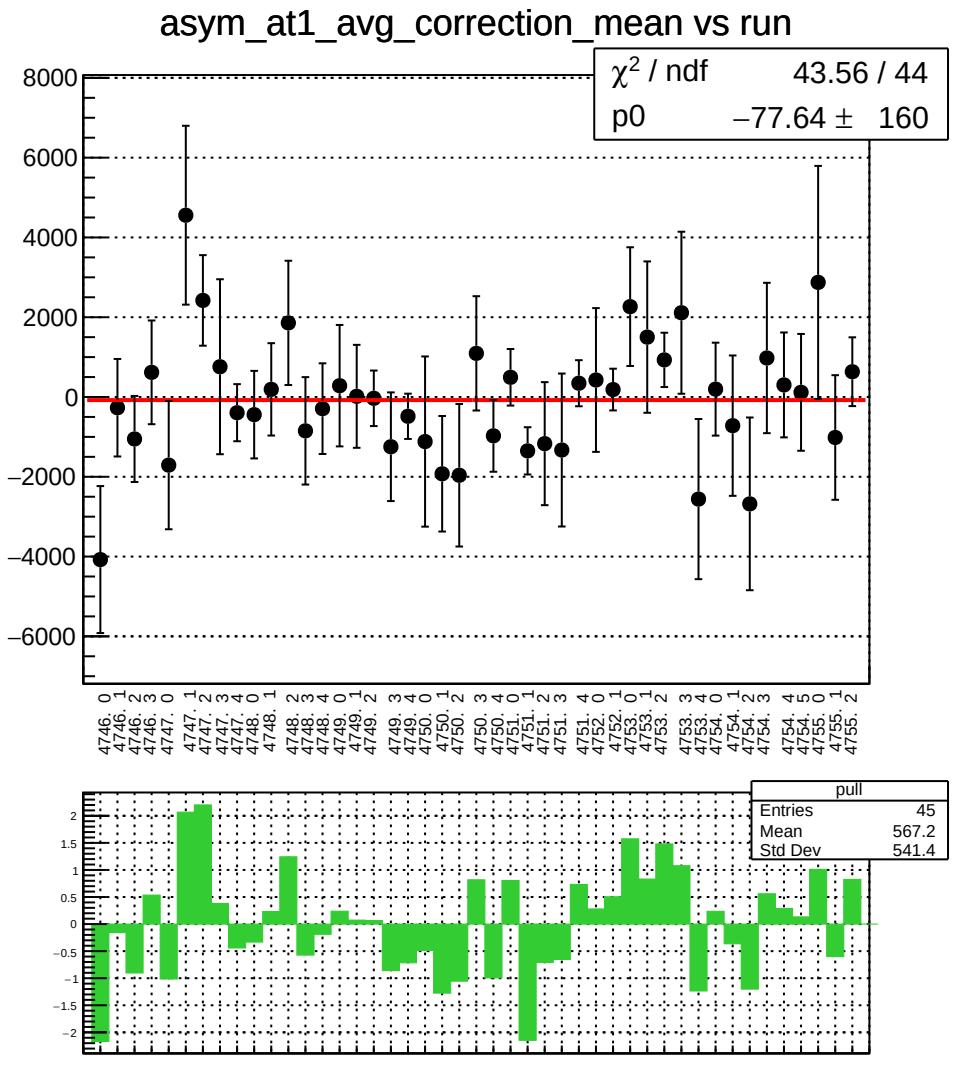

pull1D
Entries 45
Mean −0.003856
Std Dev 1.107
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

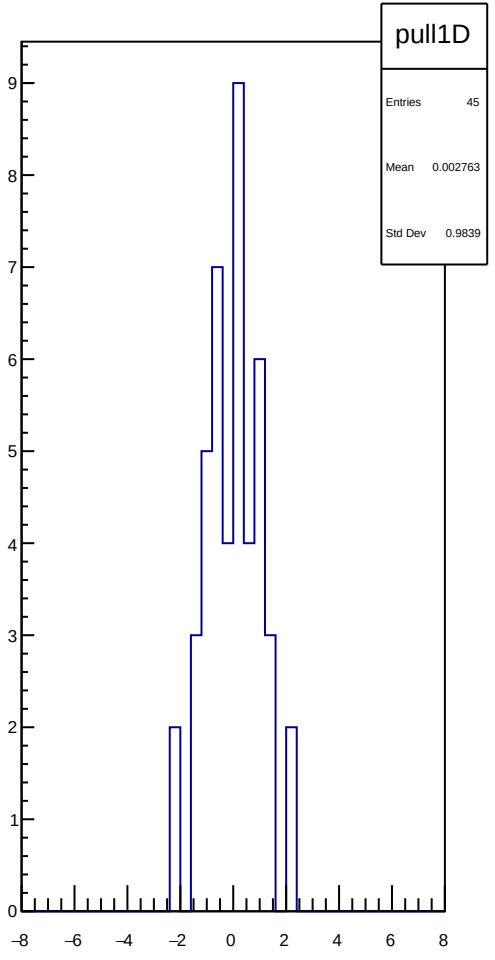

asym_atr_dd_rms vs run
χ^2 / ndf 43.11 / 44
p0 5853 ± 6.098
5950
5900
5850
5800
5750
5700
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

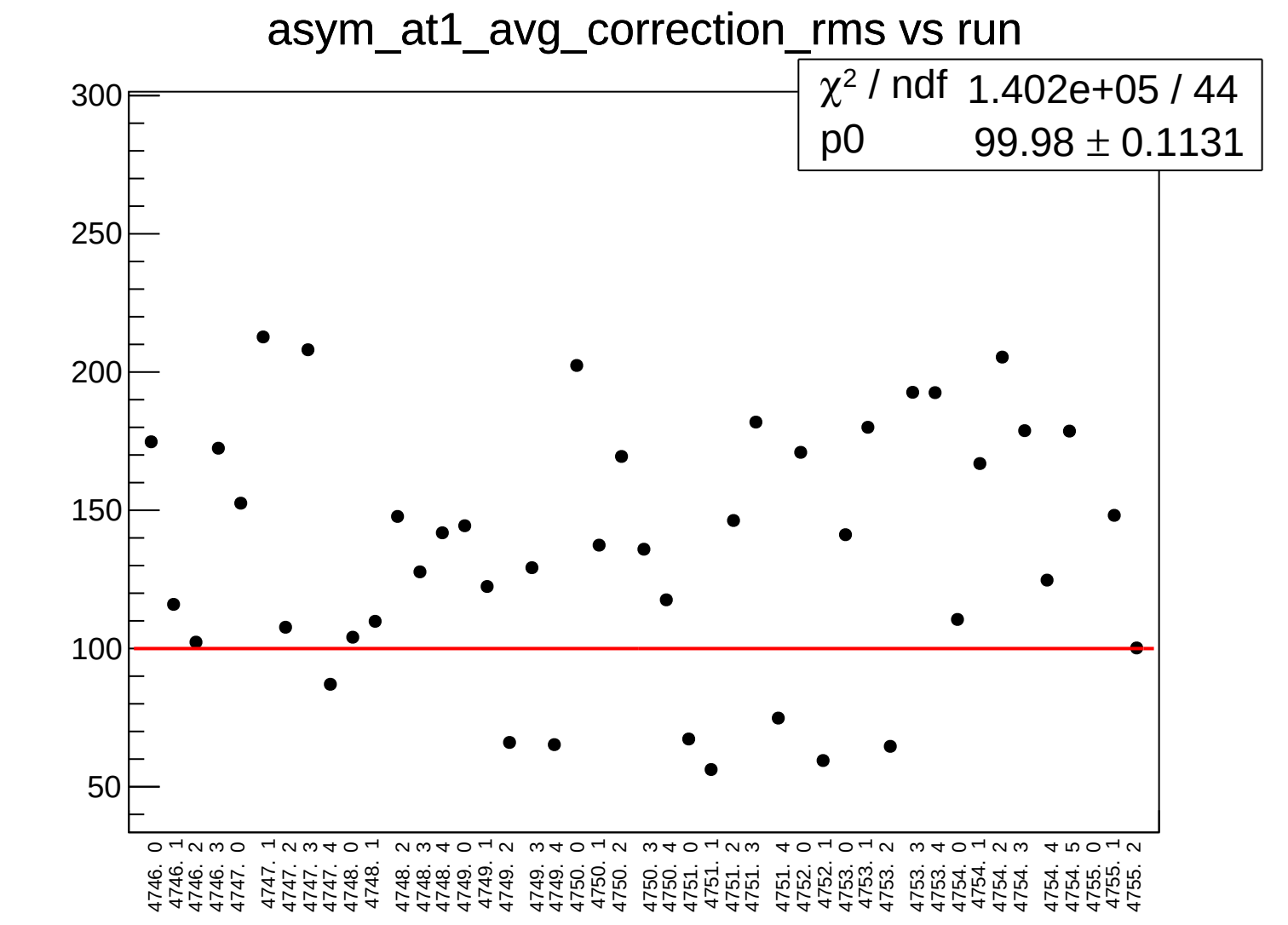

reg_asym_at1_avg_mean vs run
×10^3
χ² / ndf 66.11 / 44
p0 9270 ± 9052
300
200
100
0
−100
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 299.2
Std Dev 278
4
3
2
1
0
−1
−2

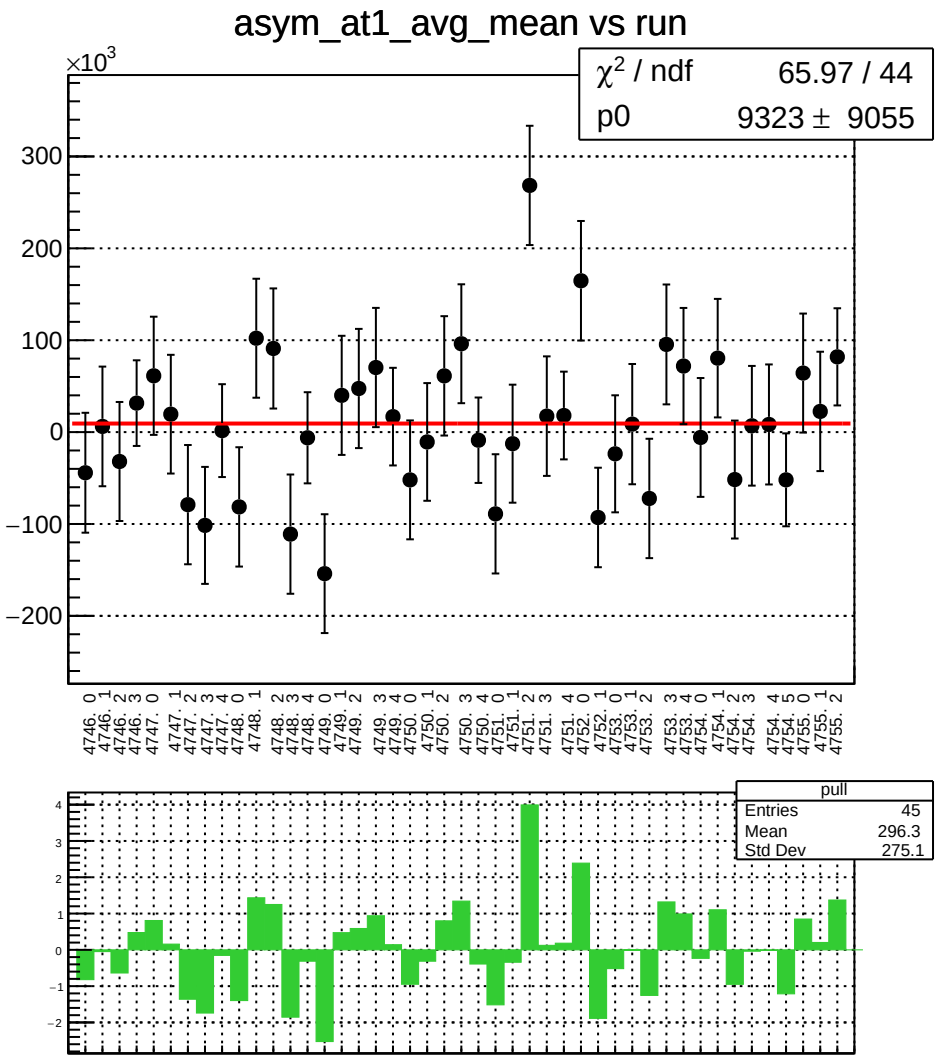

pull1D
Entries 45
Mean 0.01017
Std Dev 1.212
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

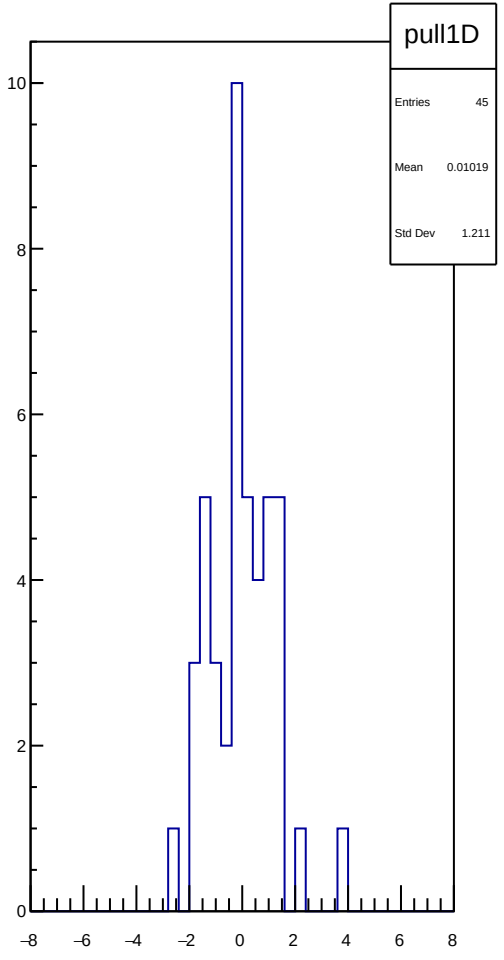

reg_asym_at1_avg_rms vs run
χ² / ndf 41.36 / 44
p0 6143 ± 6.401
6250
6200
6150
6100
6050
6000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

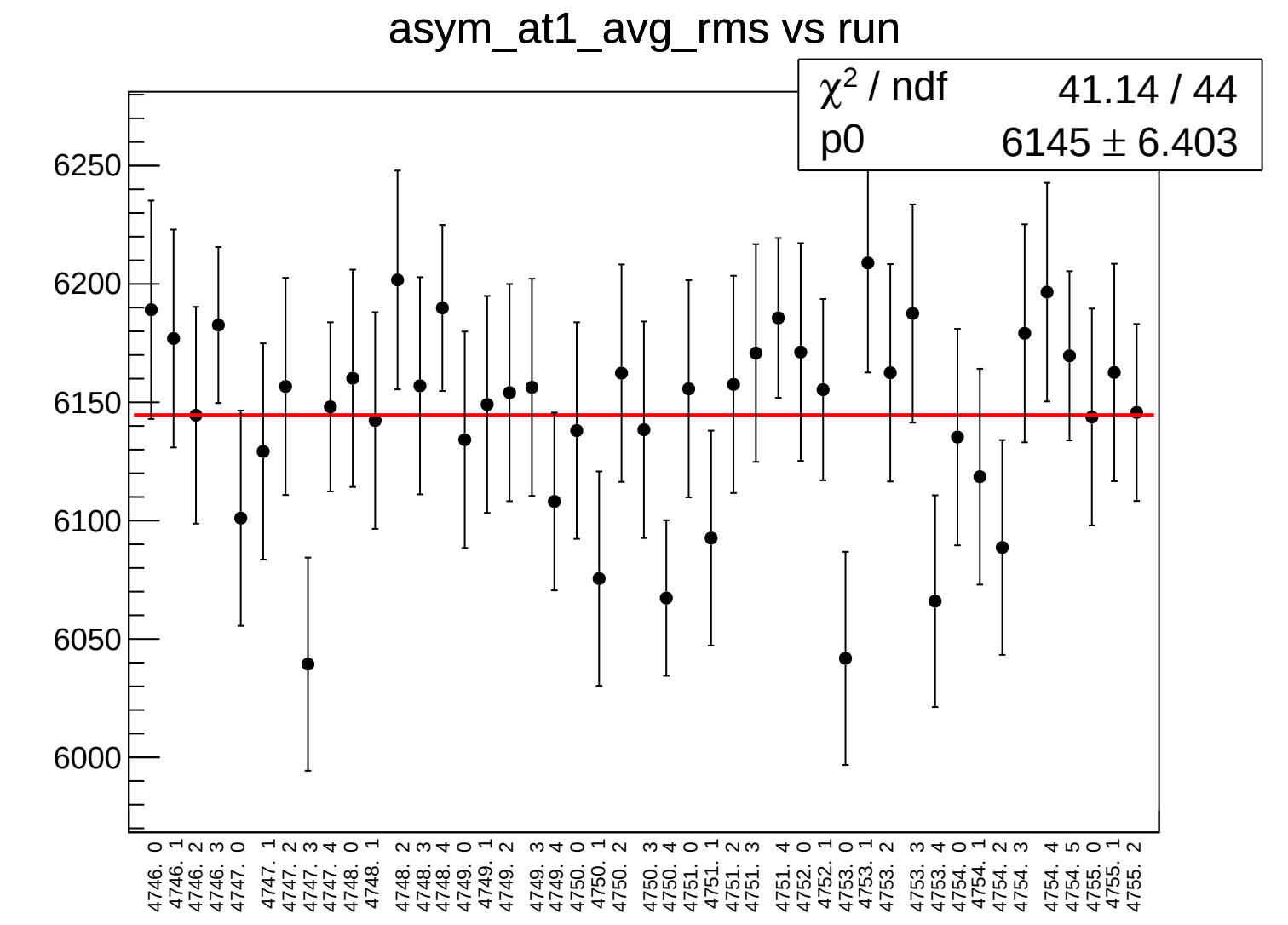

asym_at1_avg_correction_mean vs run
χ² / ndf 43.56 / 44
p0 −77.64 ± 160
8000
6000
4000
2000
0
−2000
−4000
−6000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 567.2
Std Dev 541.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

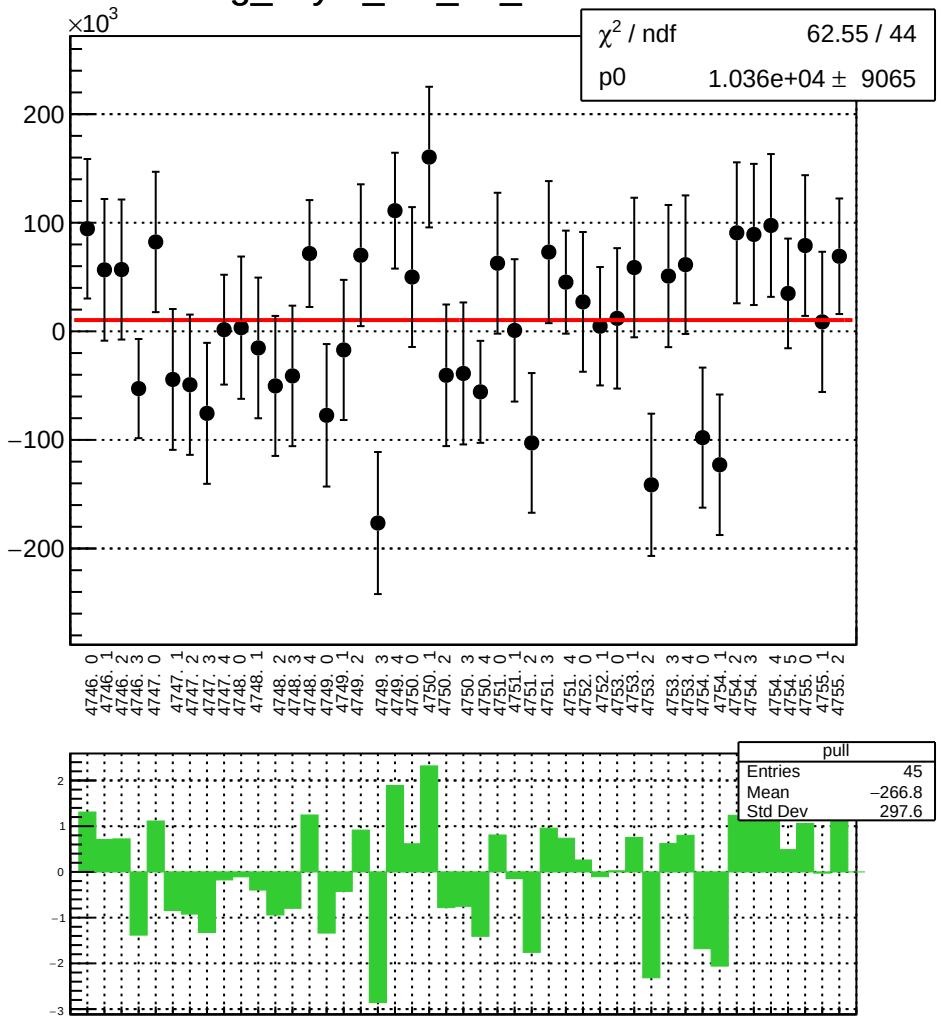

pull1D
Entries 45
Mean 0.002763
Std Dev 0.9839
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

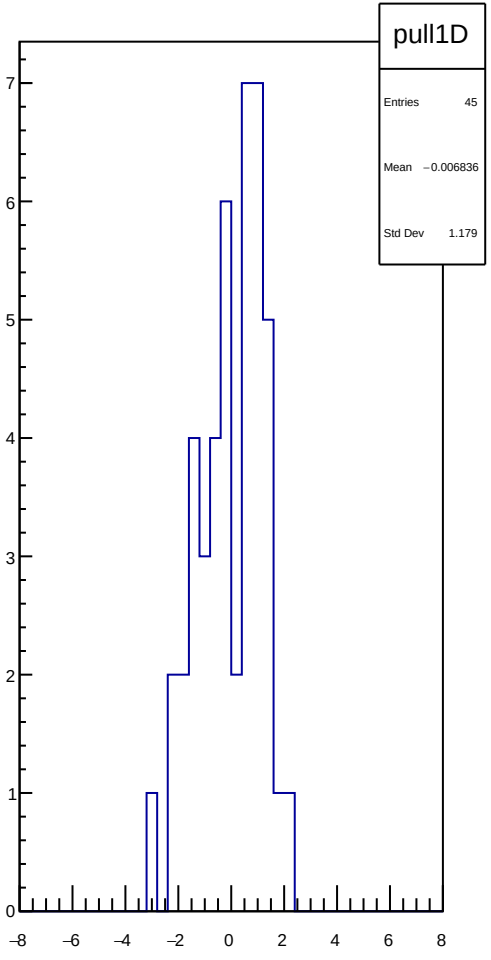

asym_at1_avg_correction_rms vs run
χ² / ndf 1.402e+05 / 44
p0 99.98 ± 0.1131
300
250
200
150
100
50
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

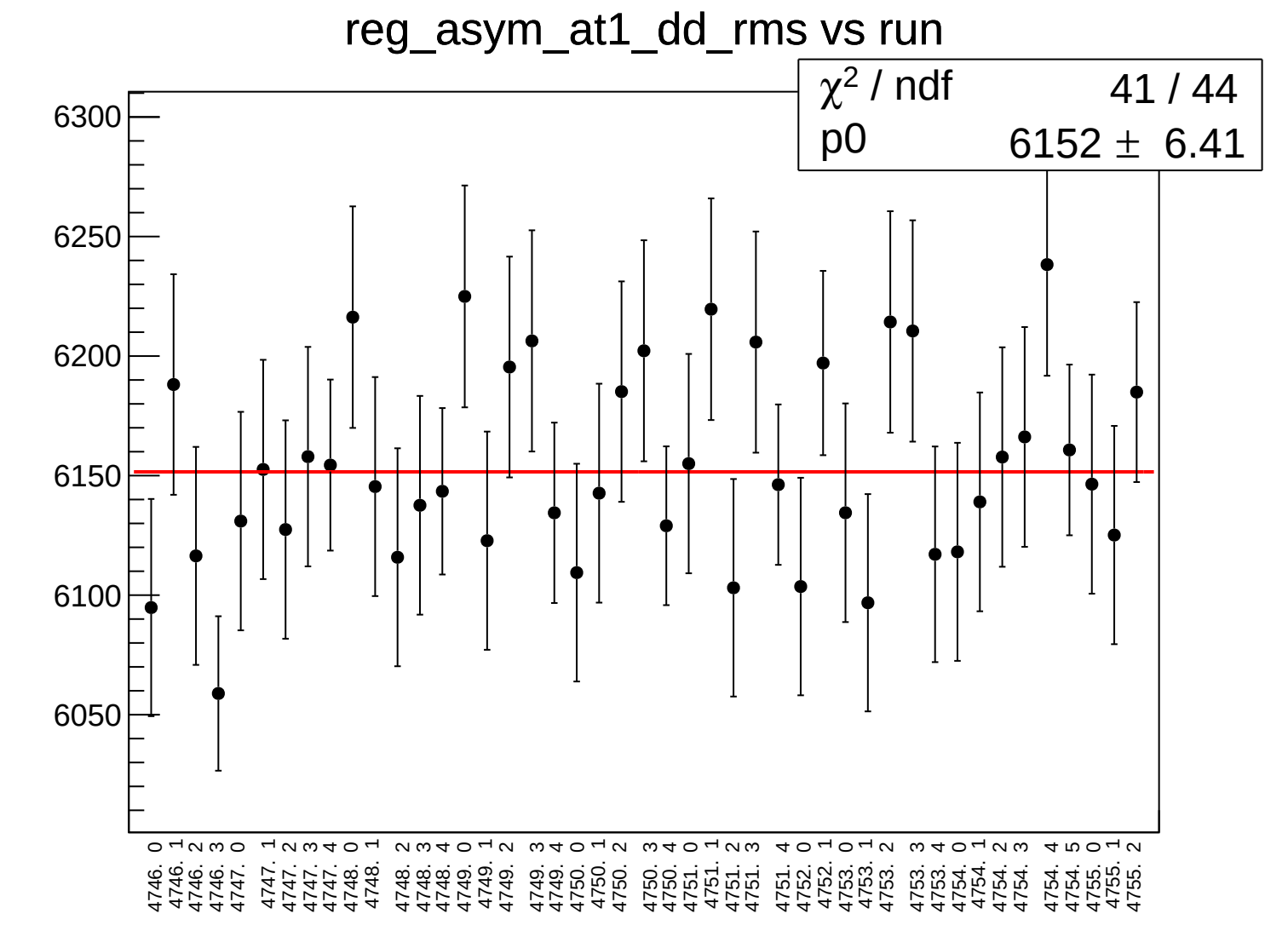

asym_at1_avg_mean vs run
×10^3
χ² / ndf 65.97 / 44
p0 9323 ± 9055
300
200
100
0
−100
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 296.3
Std Dev 275.1
4
3
2
1
0
−1
−2

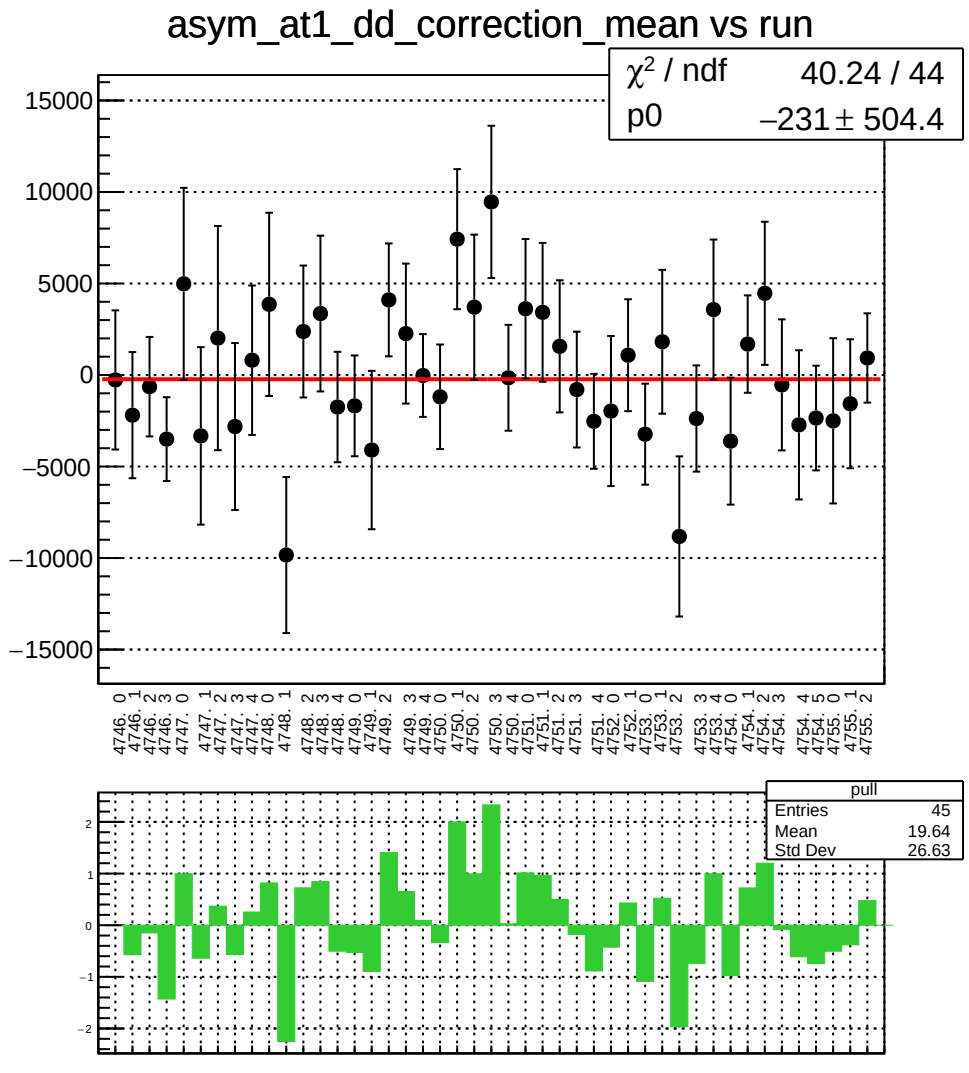

pull1D
Entries 45
Mean 0.01019
Std Dev 1.211
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

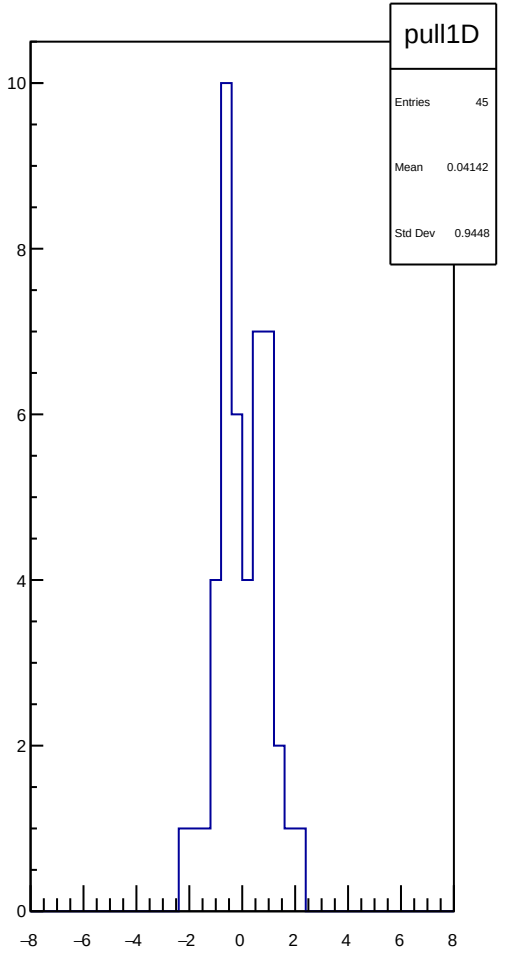

asym_at1_avg_rms vs run
χ² / ndf 41.14 / 44
p0 6145 ± 6.403
6250
6200
6150
6100
6050
6000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

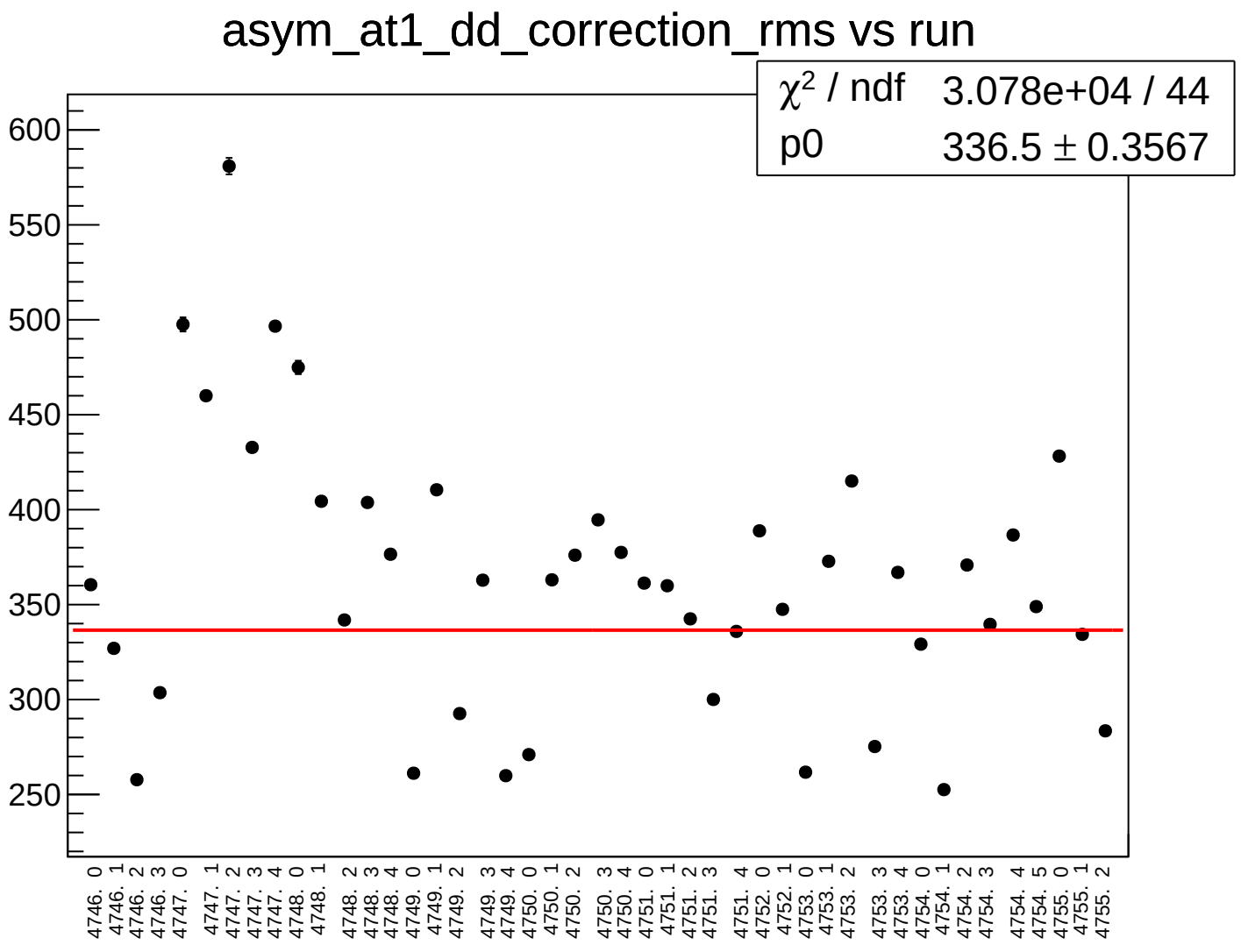

reg_asym_at1_dd_mean vs run
×10^3
χ² / ndf 62.55 / 44
p0 1.036e+04 ± 9065
200
100
0
−100
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −266.8
Std Dev 297.6
2
1
0
−1
−2
−3

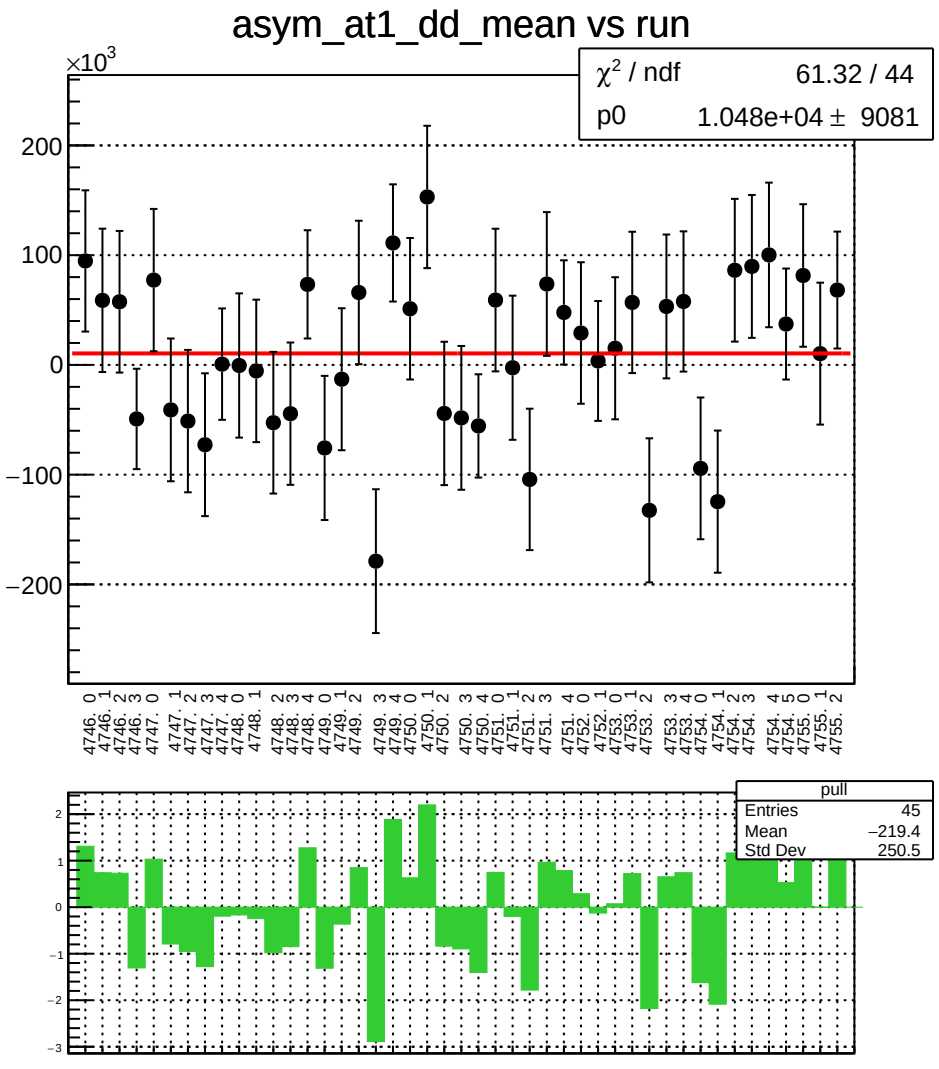

pull1D
Entries 45
Mean −0.006836
Std Dev 1.179
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

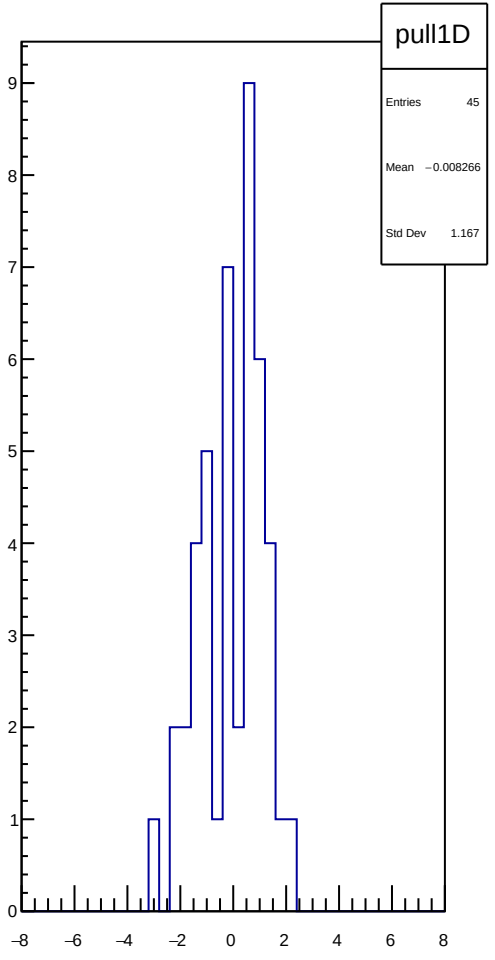

reg_asym_at1_dd_rms vs run
χ² / ndf 41 / 44
p0 6152 ± 6.41
6300
6250
6200
6150
6100
6050
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

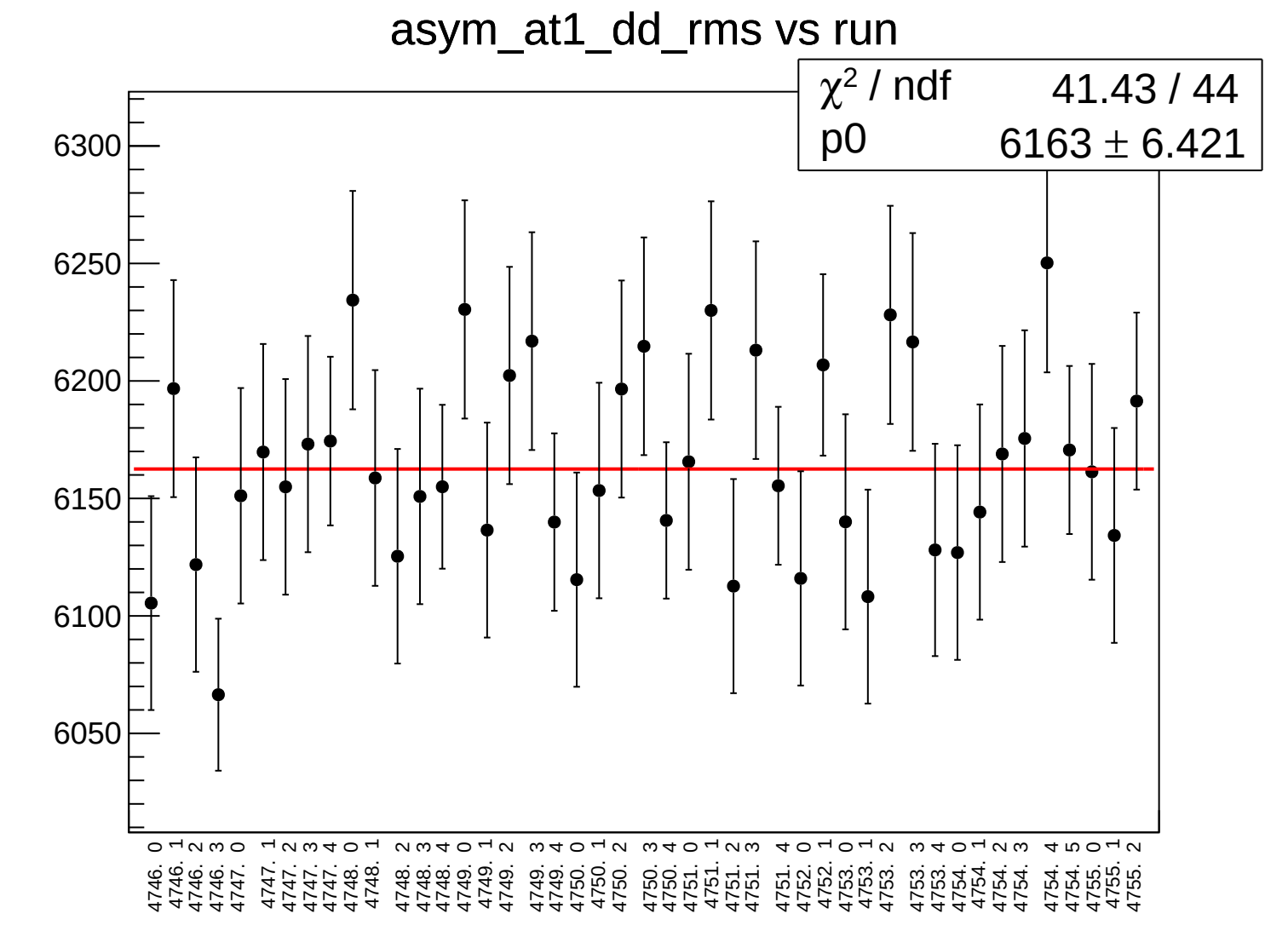

asym_at1_dd_correction_mean vs run
χ² / ndf 40.24 / 44
p0 −231 ± 504.4
15000
10000
5000
0
−5000
−10000
−15000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 19.64
Std Dev 26.63
2
1
0
−1
−2

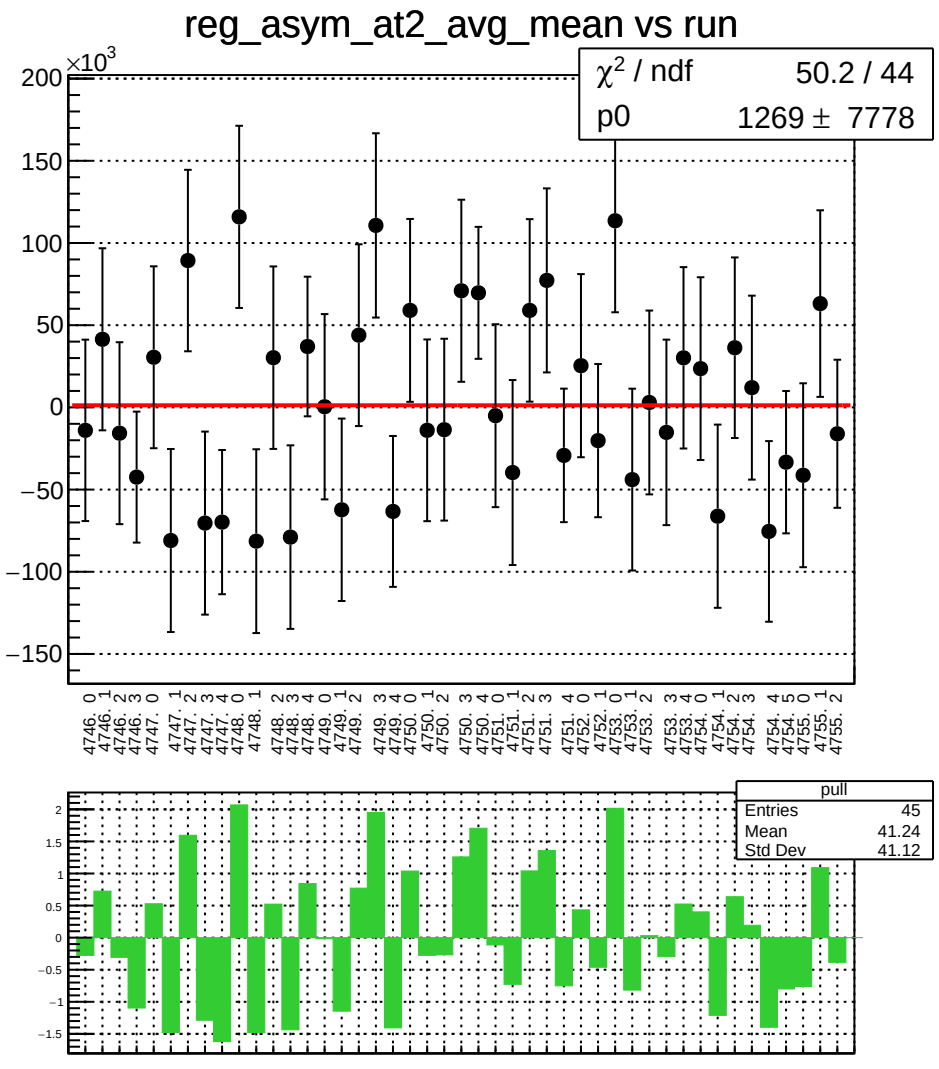

pull1D
Entries 45
Mean 0.04142
Std Dev 0.9448
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

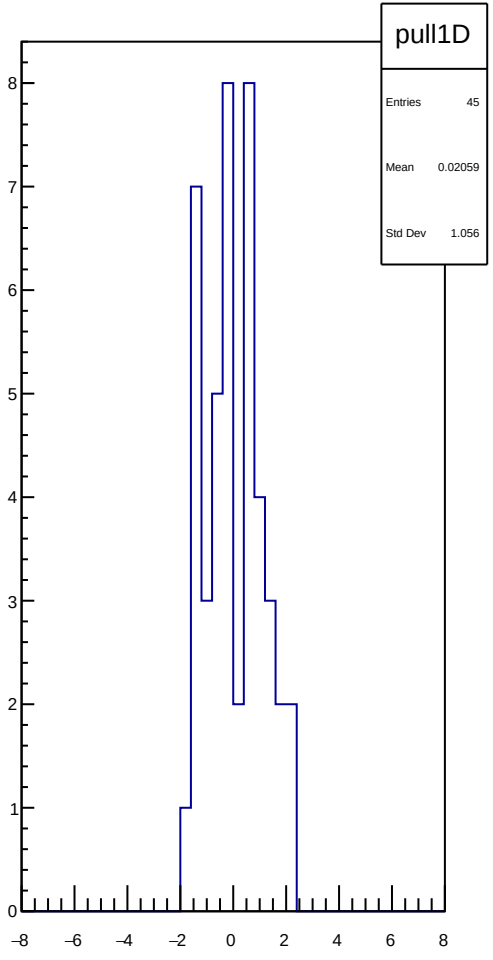

asym_at1_dd_correction_rms vs run
χ² / ndf 3.078e+04 / 44
p0 336.5 ± 0.3567
600
550
500
450
400
350
300
250
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

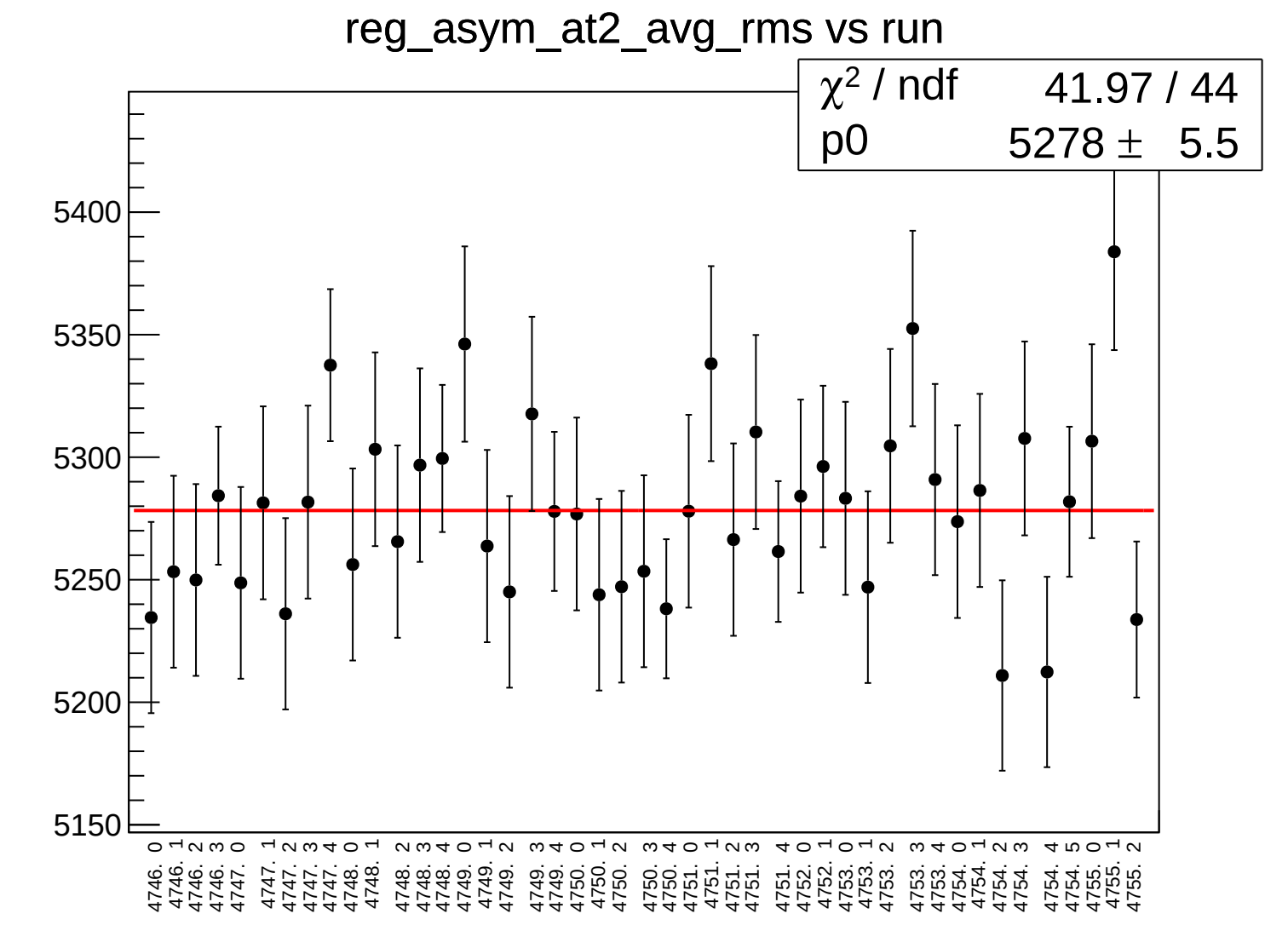

asym_at1_dd_mean vs run
×10^3
χ² / ndf 61.32 / 44
p0 1.048e+04 ± 9081
200
100
0
−100
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −219.4
Std Dev 250.5
2
1
0
−1
−2
−3

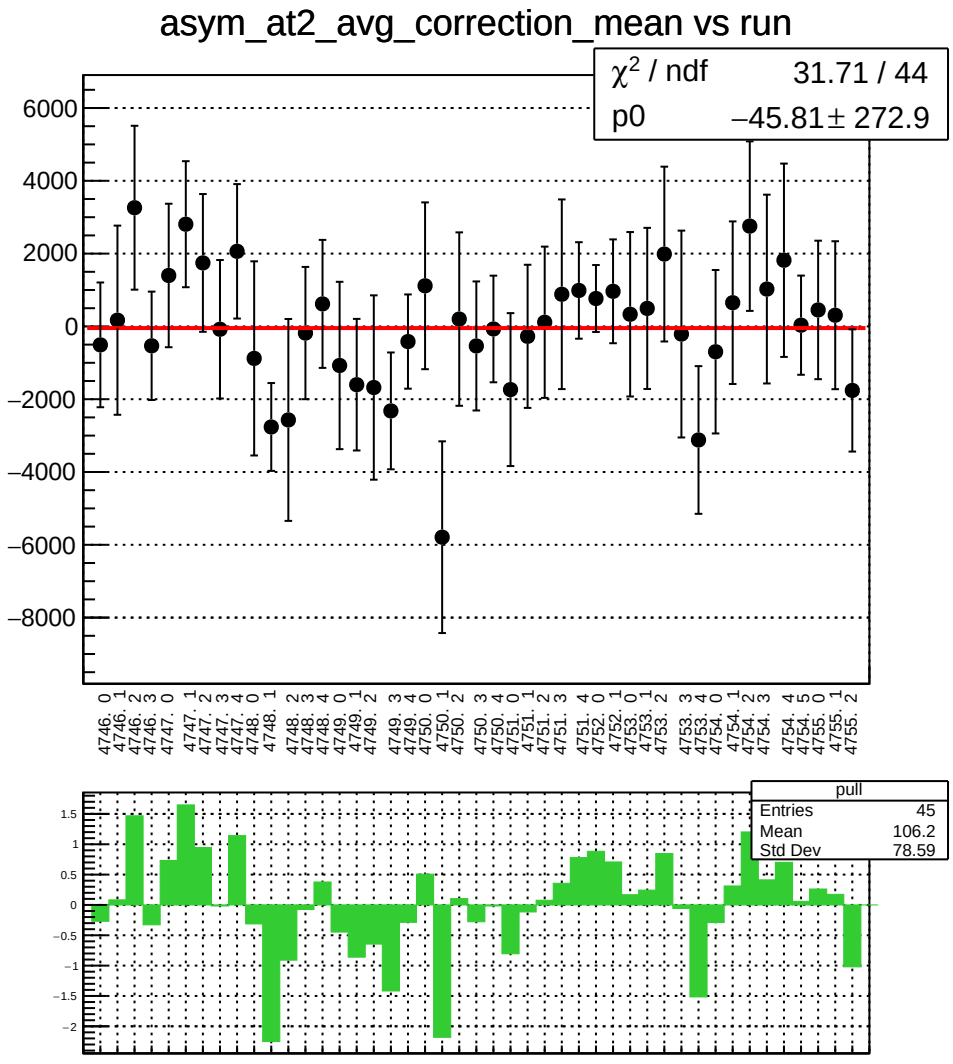

pull1D
Entries 45
Mean −0.008266
Std Dev 1.167
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

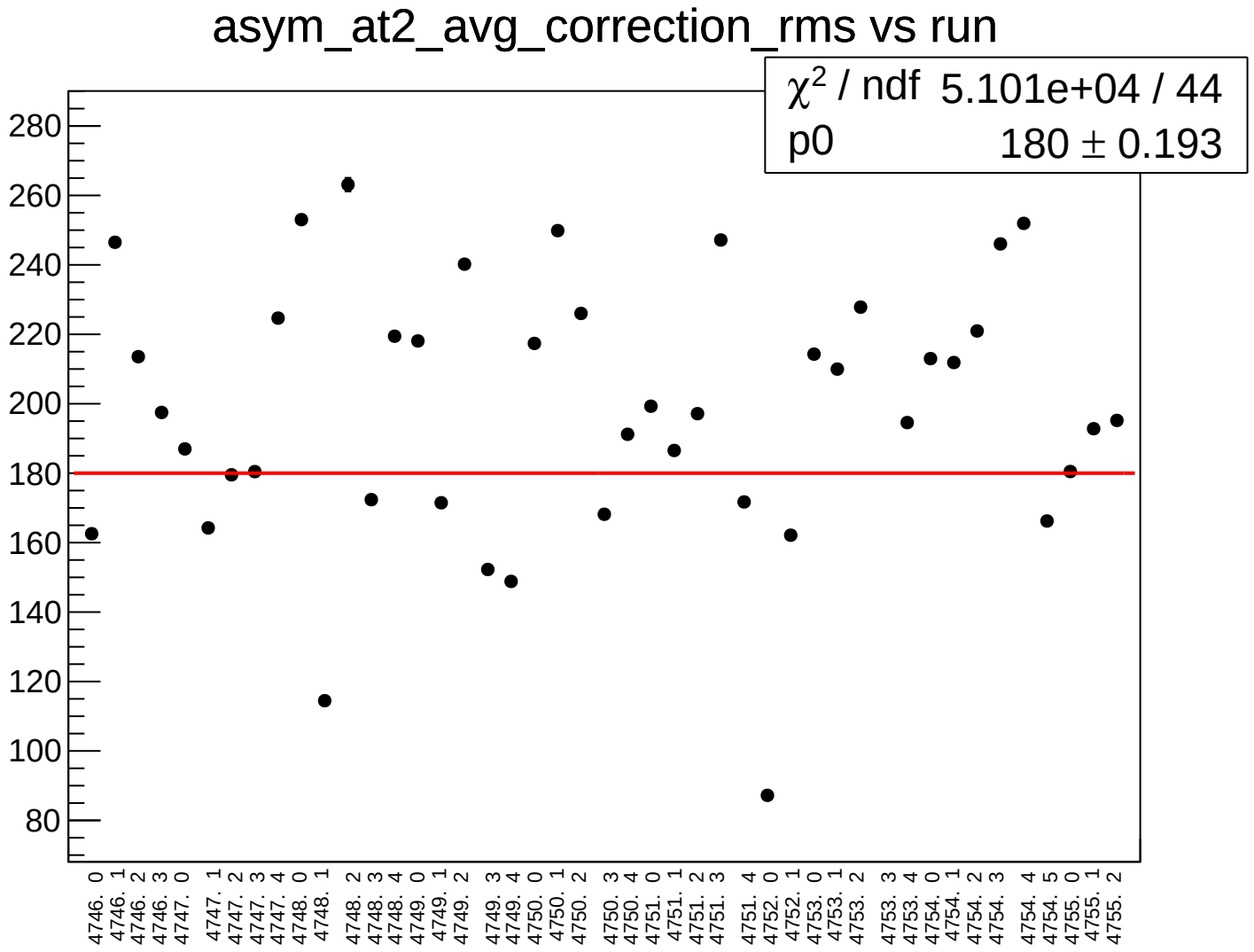

asym_at1_dd_rms vs run
χ^2 / ndf 41.43 / 44
p0 6163 ± 6.421
6300
6250
6200
6150
6100
6050
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

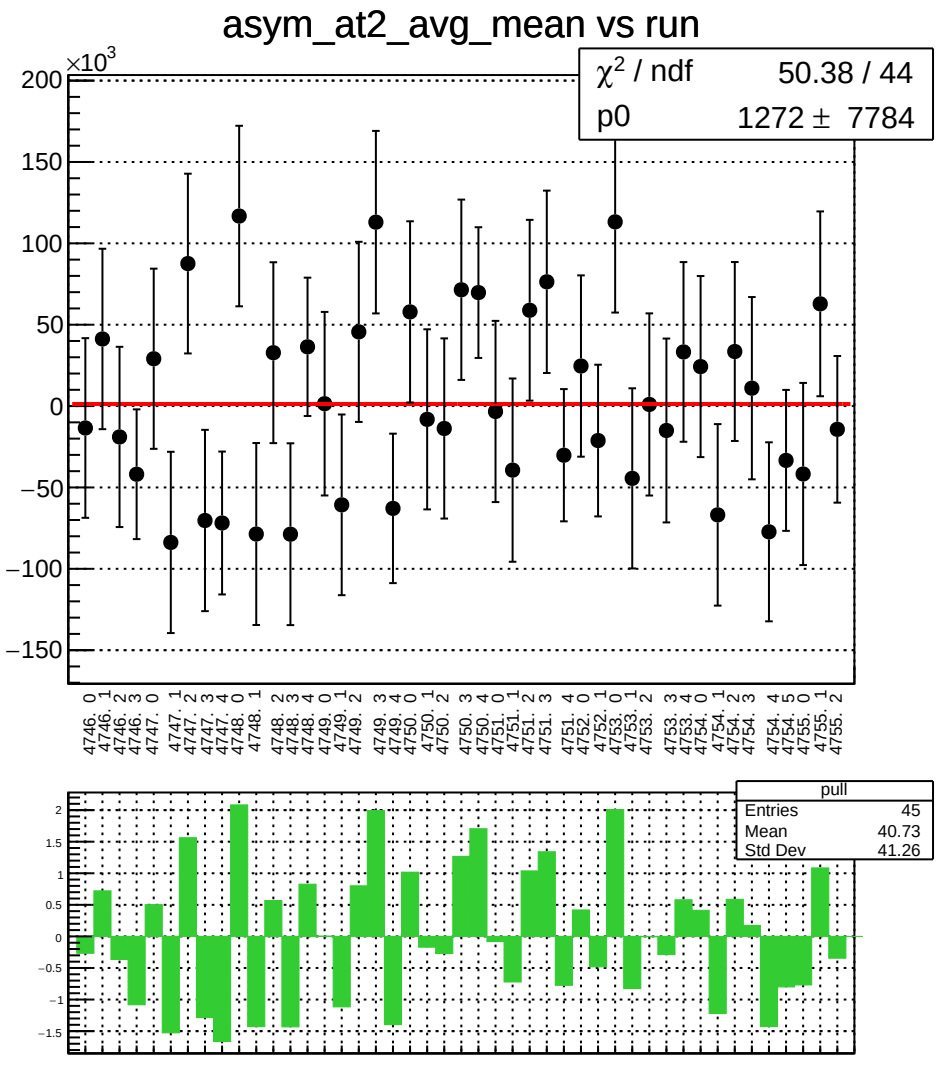

reg_asym_at2_avg_mean vs run
×10^3
χ² / ndf 50.2 / 44
p0 1269 ± 7778
200
150
100
50
0
−50
−100
−150
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 41.24
Std Dev 41.12
2
1.5
1
0.5
0
−0.5
−1
−1.5

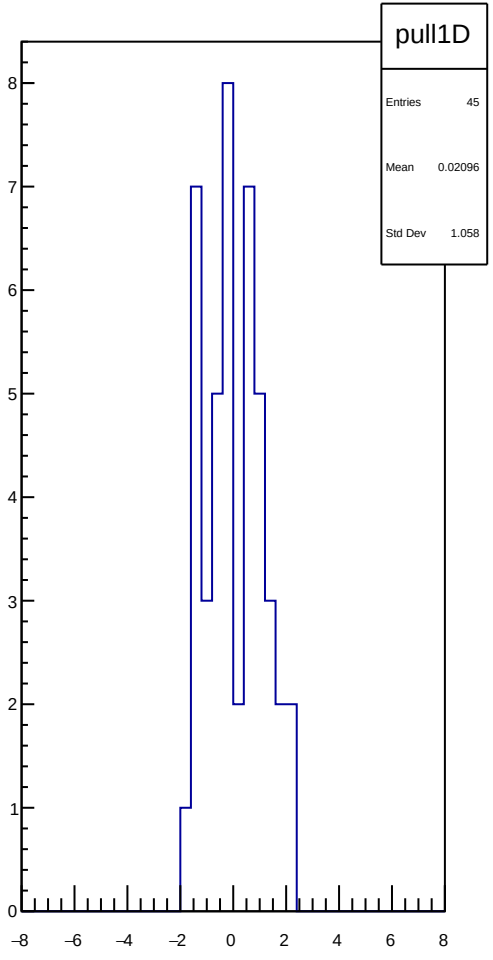

pull1D
Entries 45
Mean 0.02059
Std Dev 1.056
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

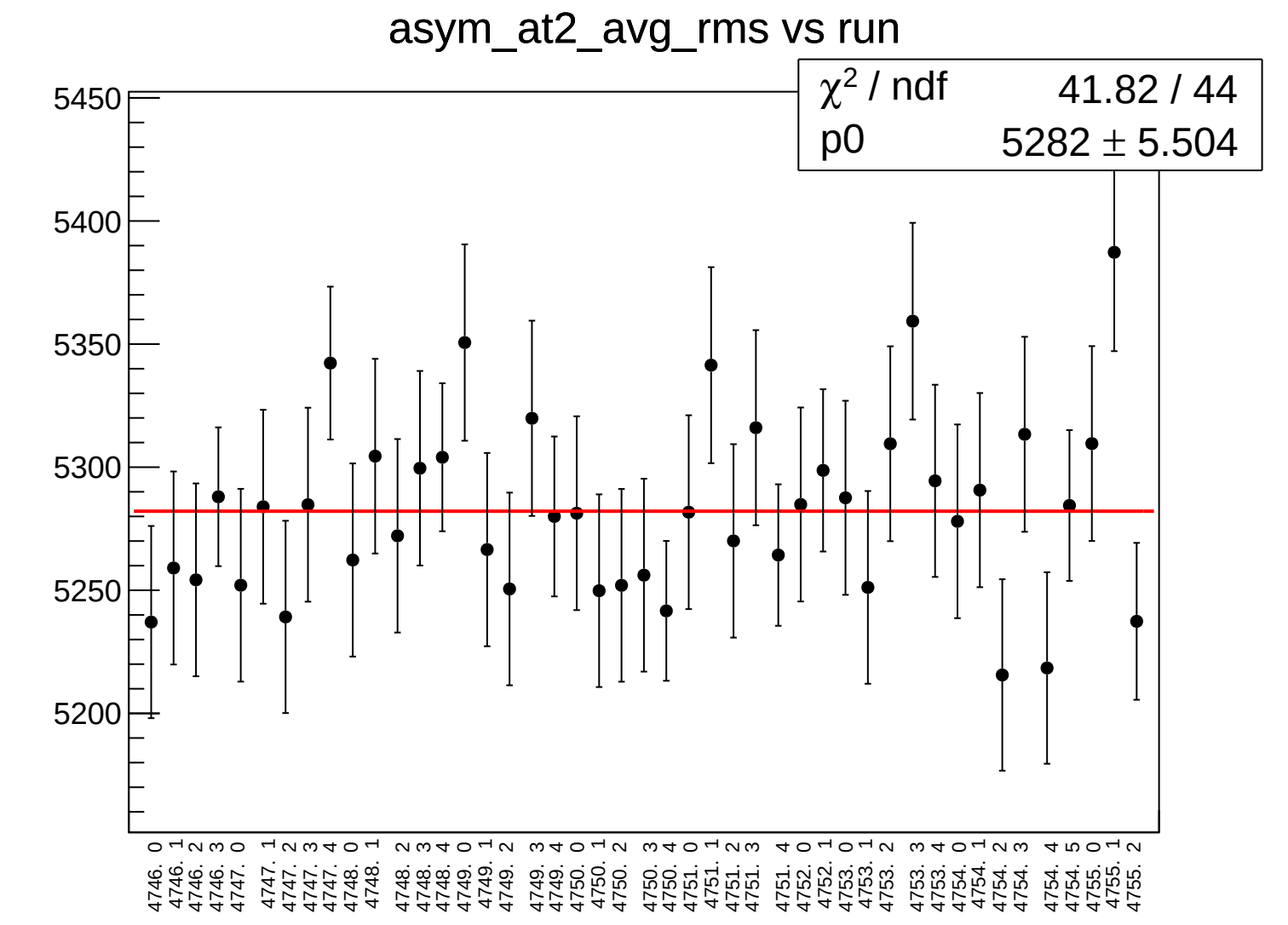

reg_asym_at2_avg_rms vs run
χ² / ndf 41.97 / 44
p0 5278 ± 5.5
5400
5350
5300
5250
5200
5150
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

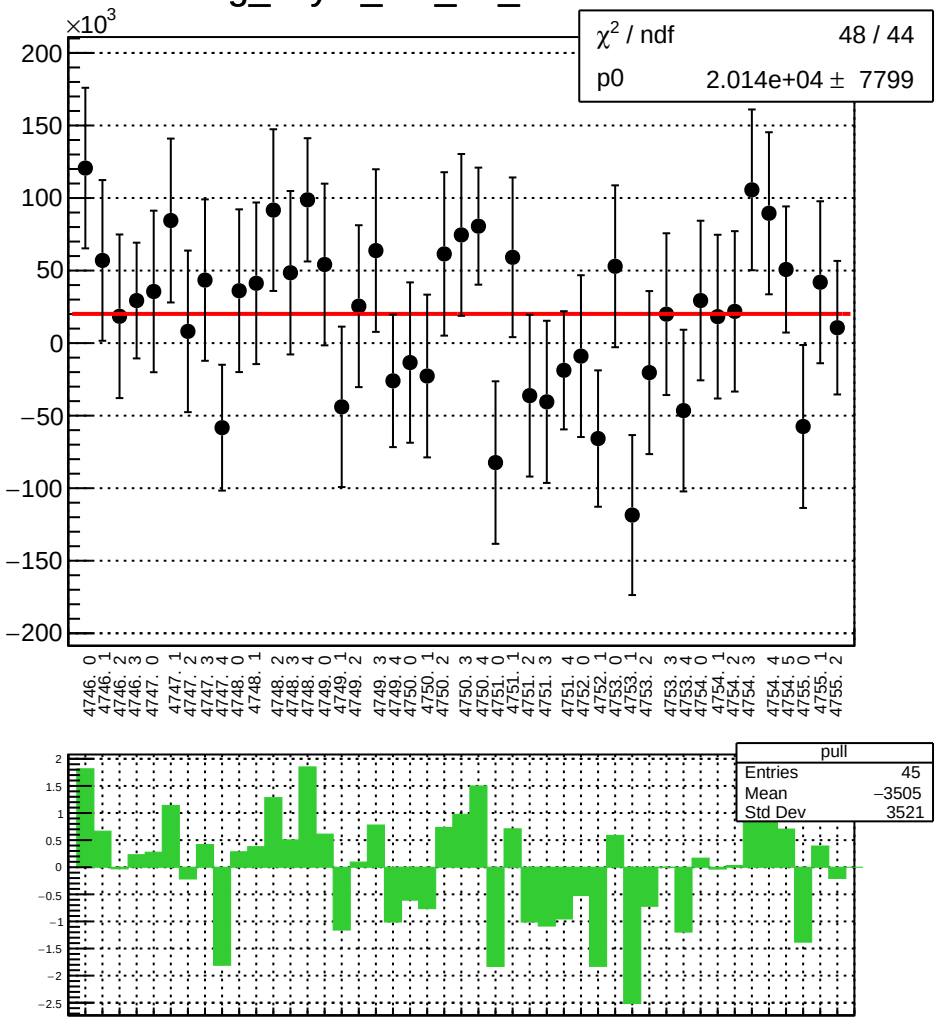

asym_at2_avg_correction_mean vs run
χ² / ndf 31.71 / 44
p0 −45.81 ± 272.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 106.2
Std Dev 78.59
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.002234
Std Dev 0.8395
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

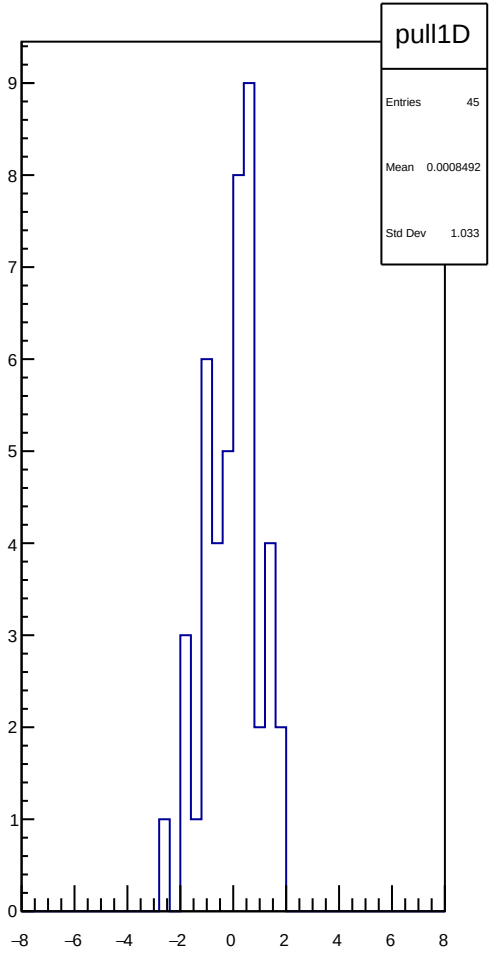

asym_at2_avg_correction_rms vs run
χ^2 / ndf 5.101e+04 / 44
p0 180 ± 0.193
280
260
240
220
200
180
160
140
120
100
80
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

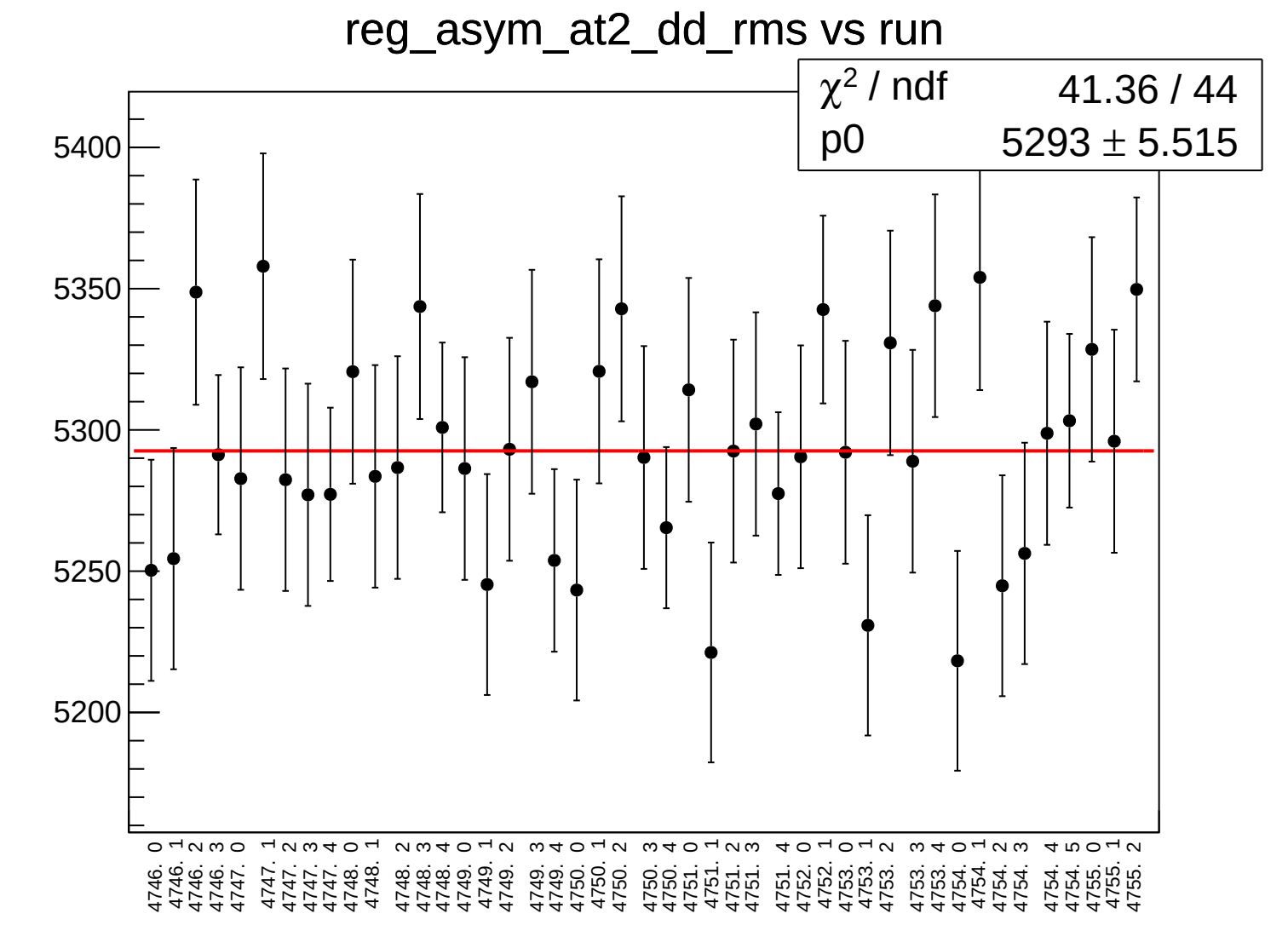

asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 50.38 / 44
p0 1272 ± 7784
200
150
100
50
0
−50
−100
−150
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 40.73
Std Dev 41.26
2
1.5
1
0.5
0
−0.5
−1
−1.5

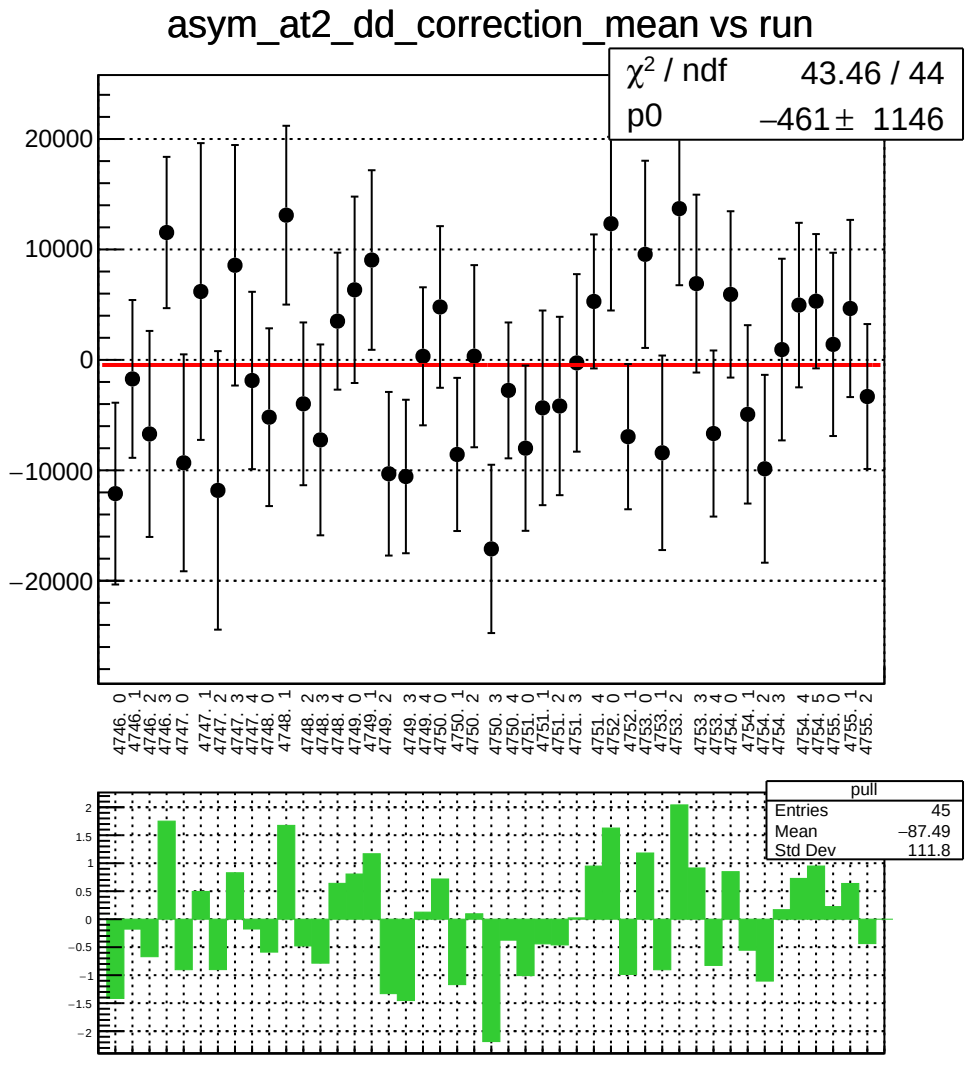

pull1D
Entries 45
Mean 0.02096
Std Dev 1.058
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

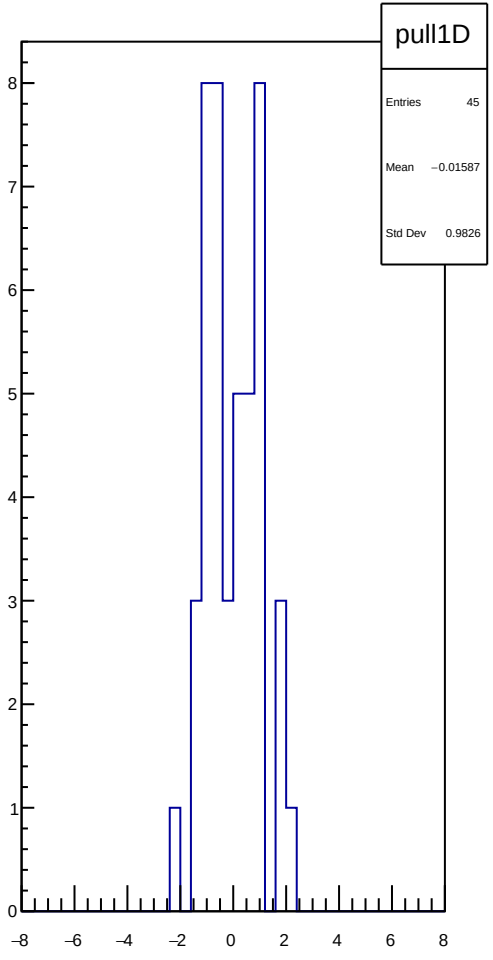

asym_at2_avg_rms vs run
χ^2 / ndf 41.82 / 44
p0 5282 ± 5.504
5450
5400
5350
5300
5250
5200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

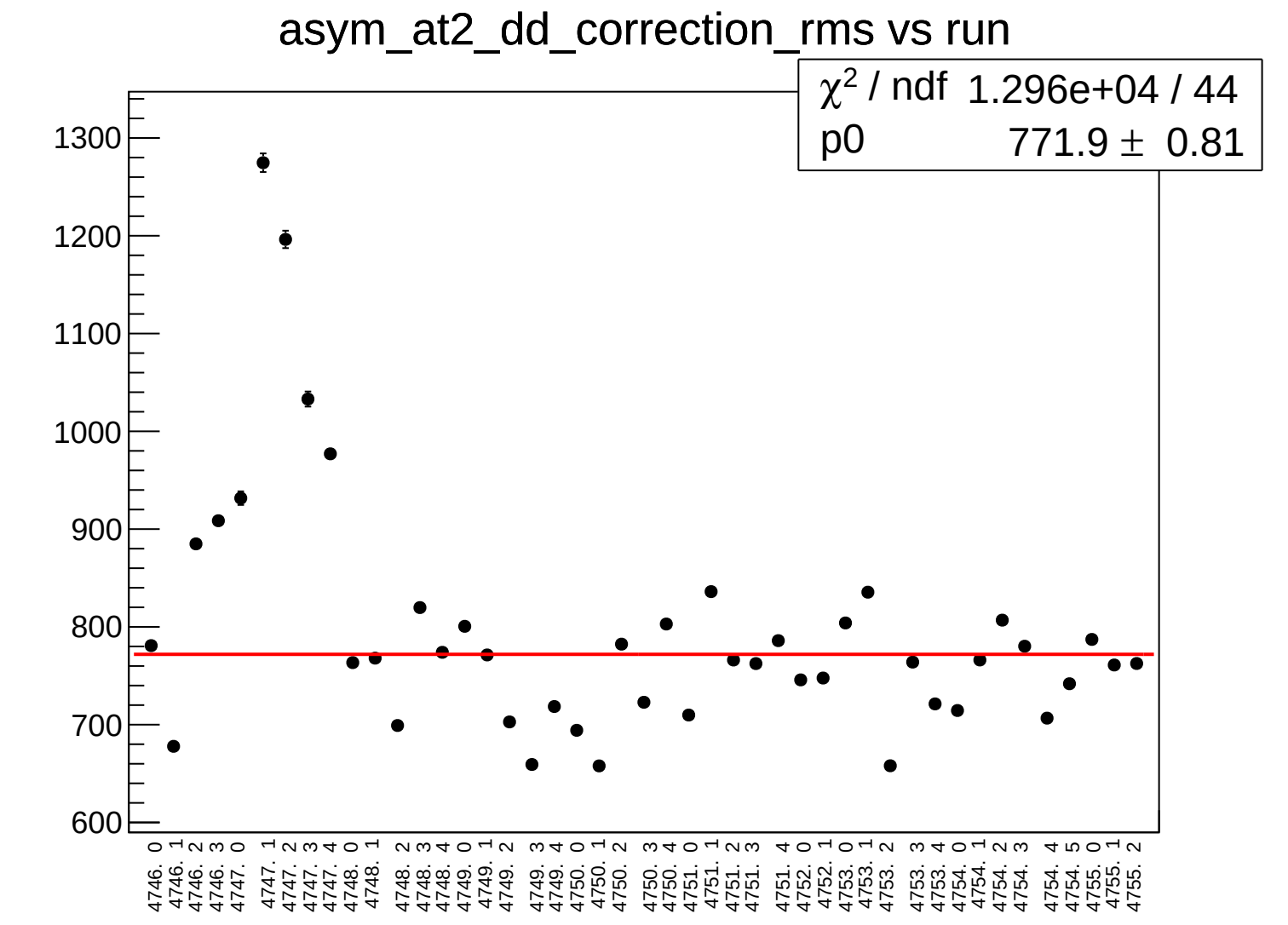

reg_asym_at2_dd_mean vs run
×10^3
χ² / ndf 48 / 44
p0 2.014e+04 ± 7799
pull
Entries 45
Mean −3505
Std Dev 3521

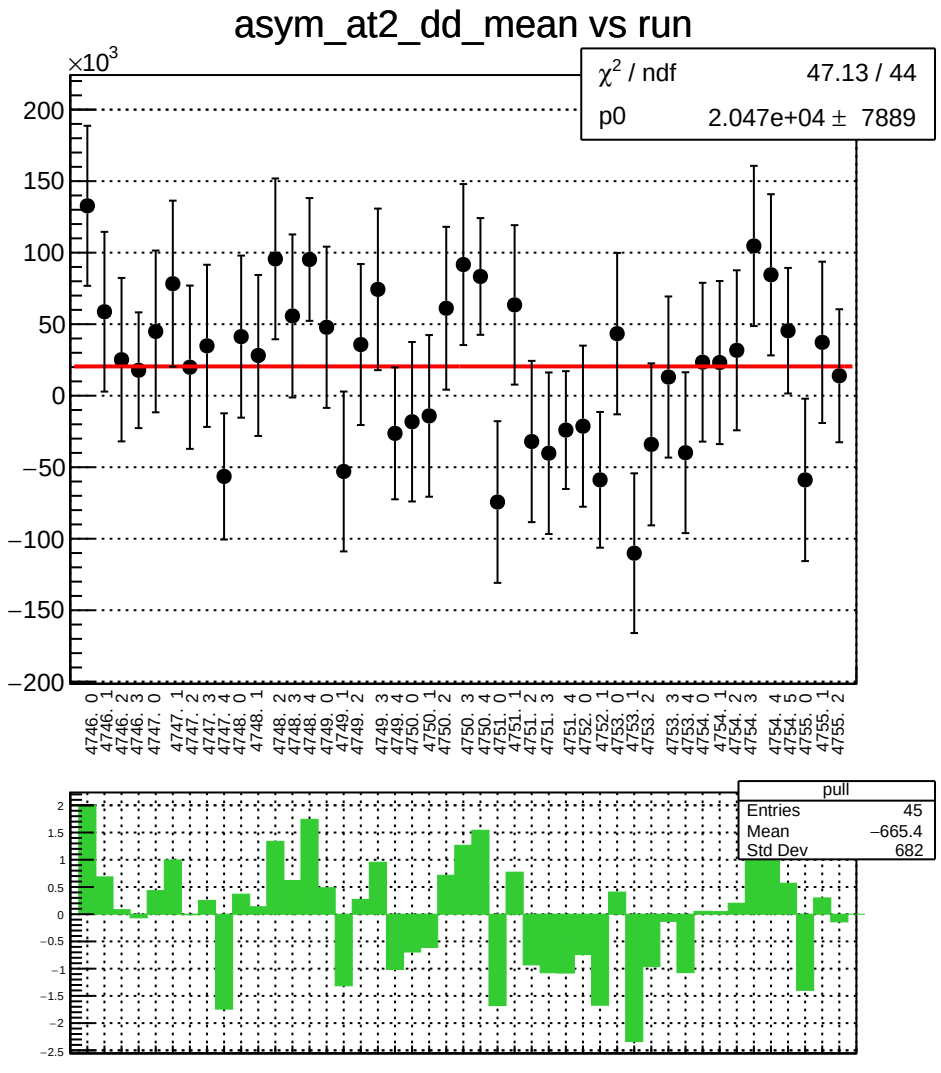

pull1D
Entries 45
Mean 0.0008492
Std Dev 1.033

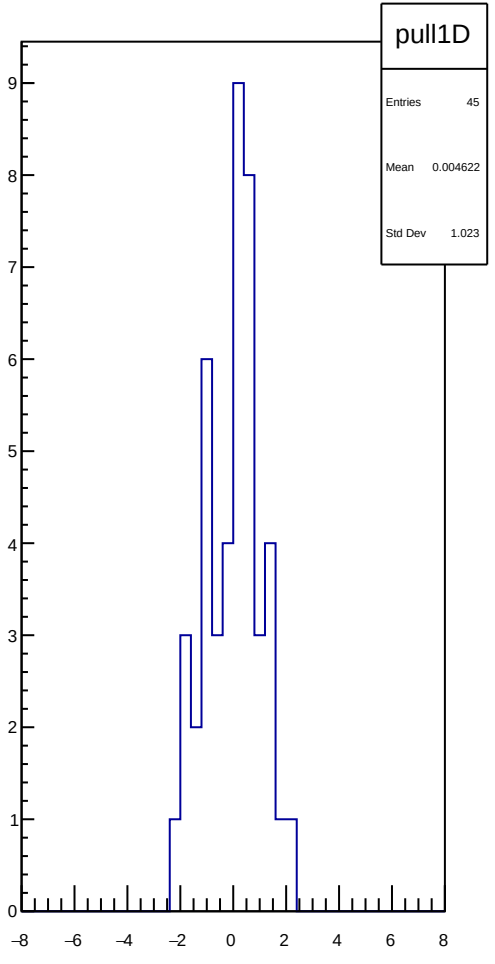

reg_asym_at2_dd_rms vs run
χ^2 / ndf 41.36 / 44
p0 5293 ± 5.515
5400
5350
5300
5250
5200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

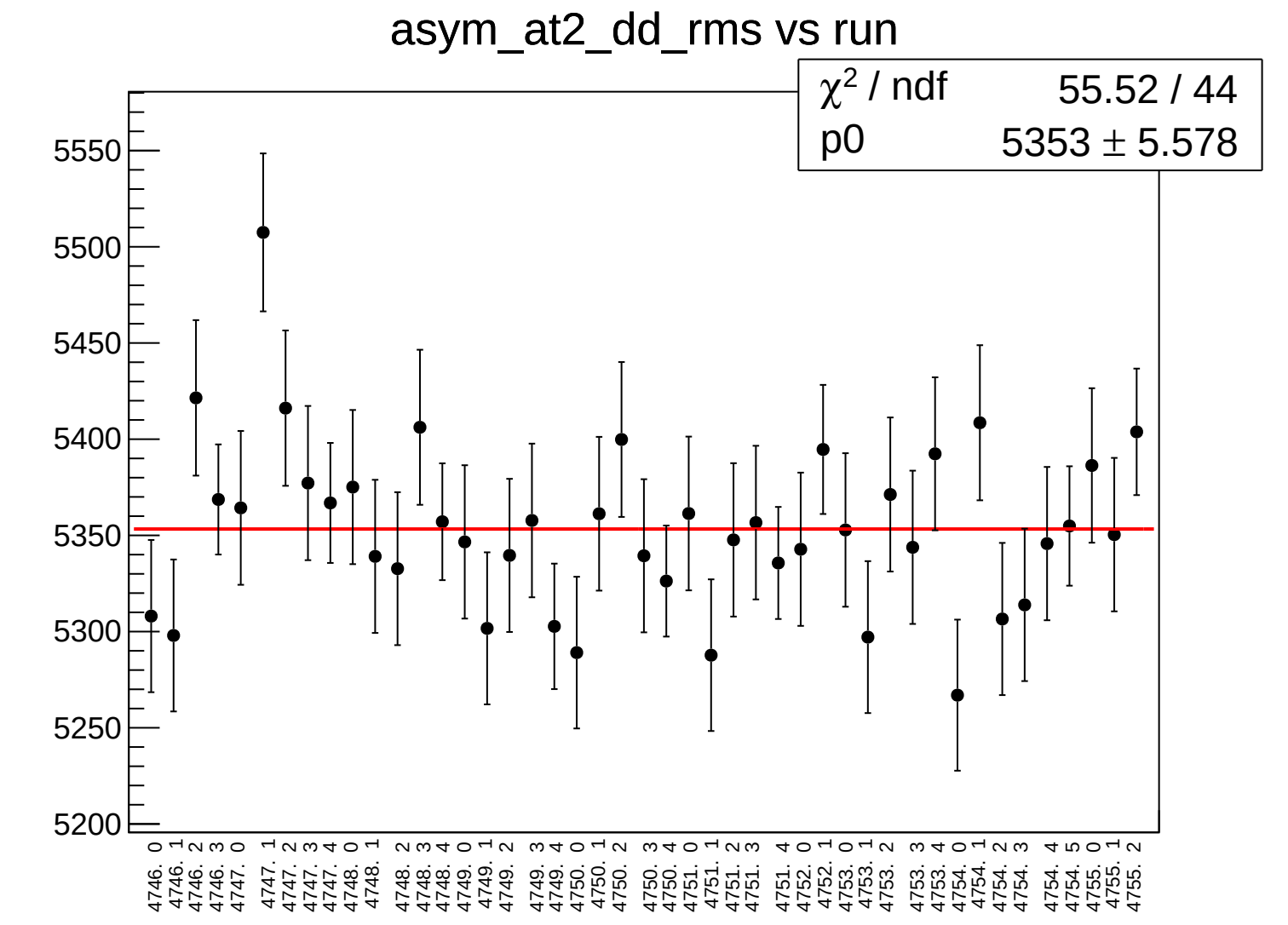

asym_at2_dd_correction_mean vs run
χ² / ndf 43.46 / 44
p0 −461 ± 1146
20000
10000
0
−10000
−20000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −87.49
Std Dev 111.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

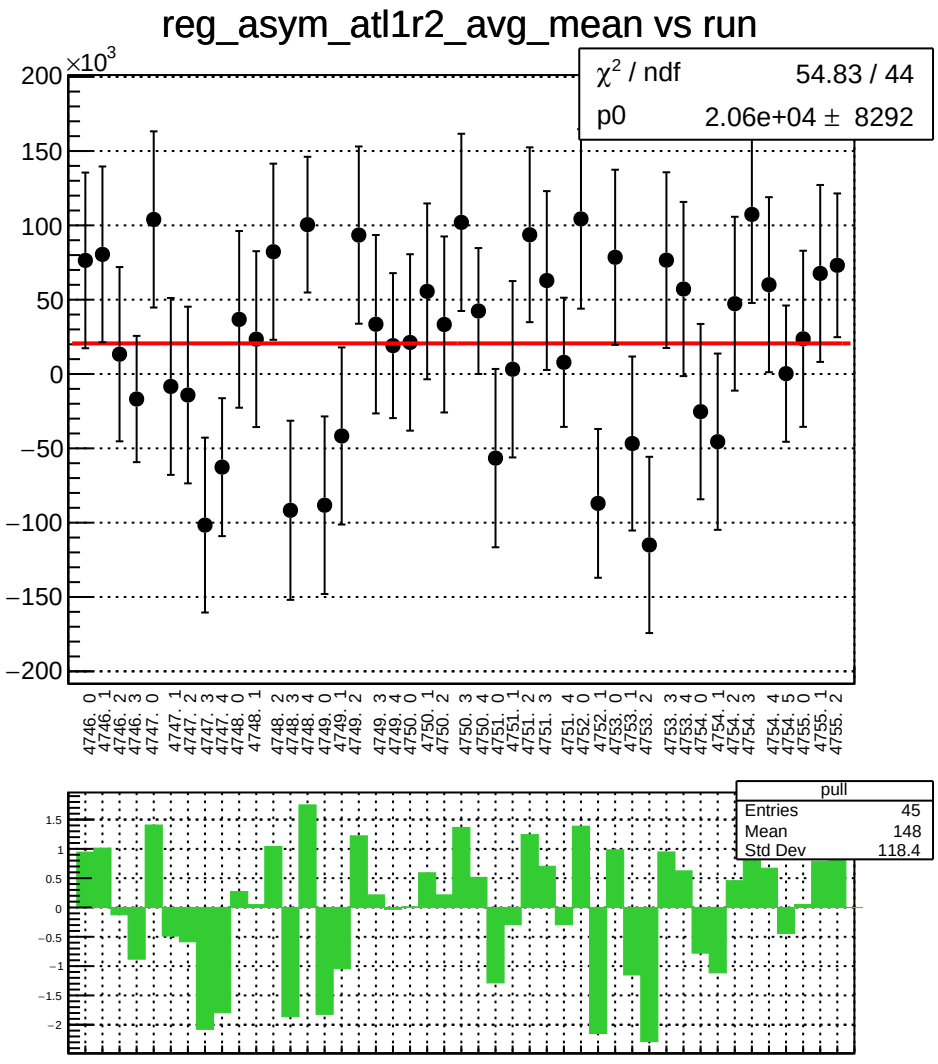

pull1D
Entries 45
Mean −0.01587
Std Dev 0.9826
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

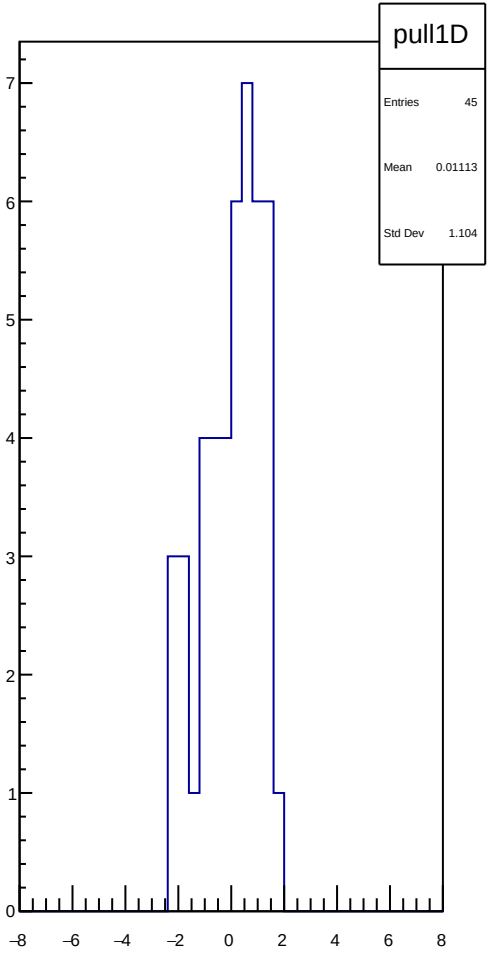

asym_at2_dd_correction_rms vs run
χ² / ndf 1.296e+04 / 44
p0 771.9 ± 0.81
1300
1200
1100
1000
900
800
700
600
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

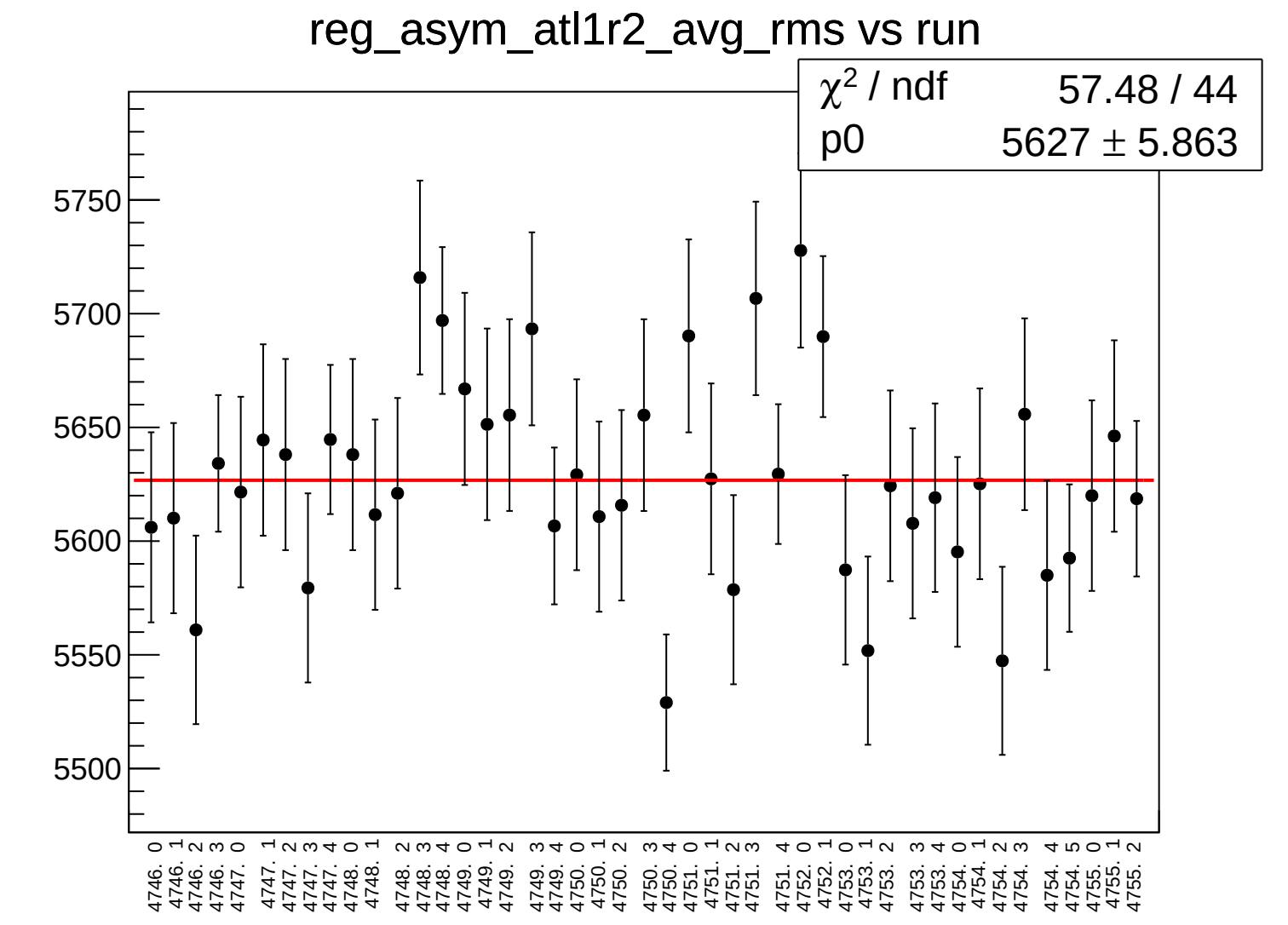

asym_at2_dd_mean vs run
×10^3
χ² / ndf 47.13 / 44
p0 2.047e+04 ± 7889
pull
Entries 45
Mean −665.4
Std Dev 682

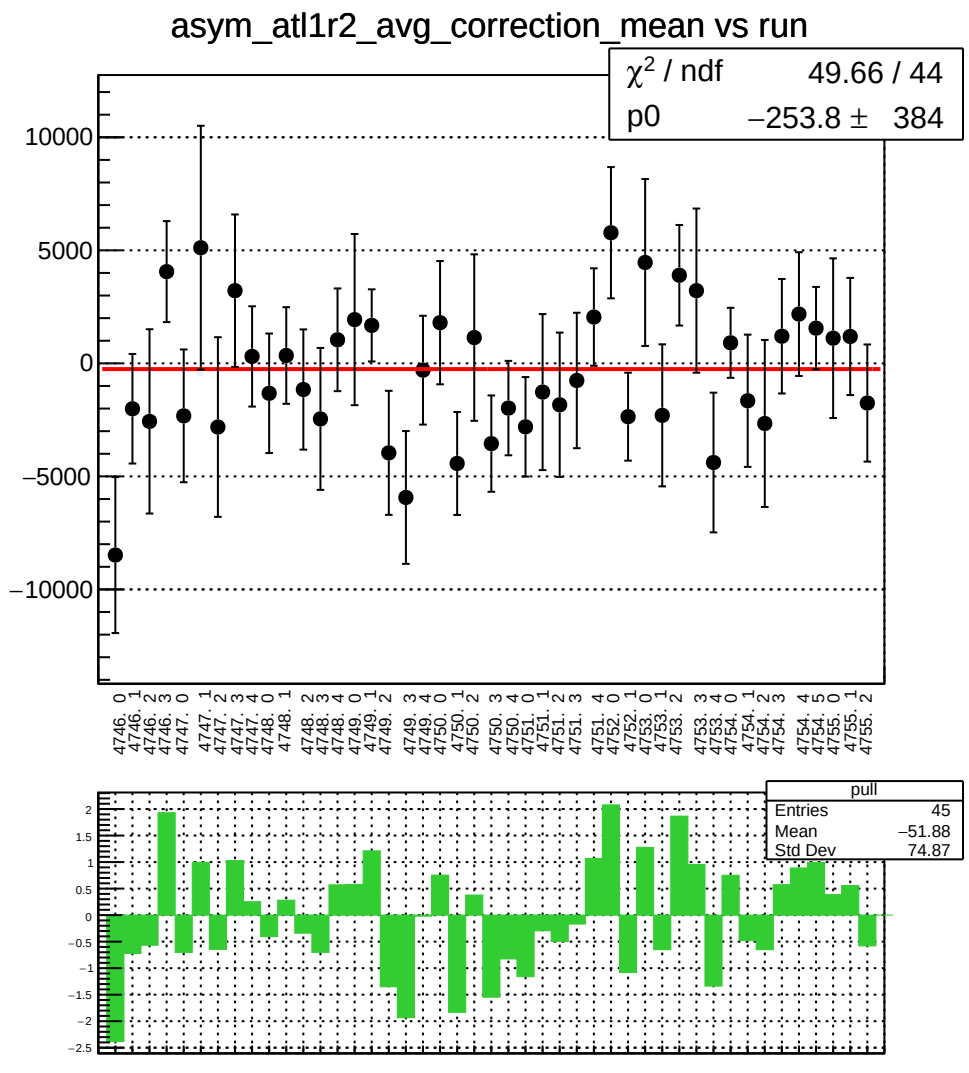

pull1D
Entries 45
Mean 0.004622
Std Dev 1.023

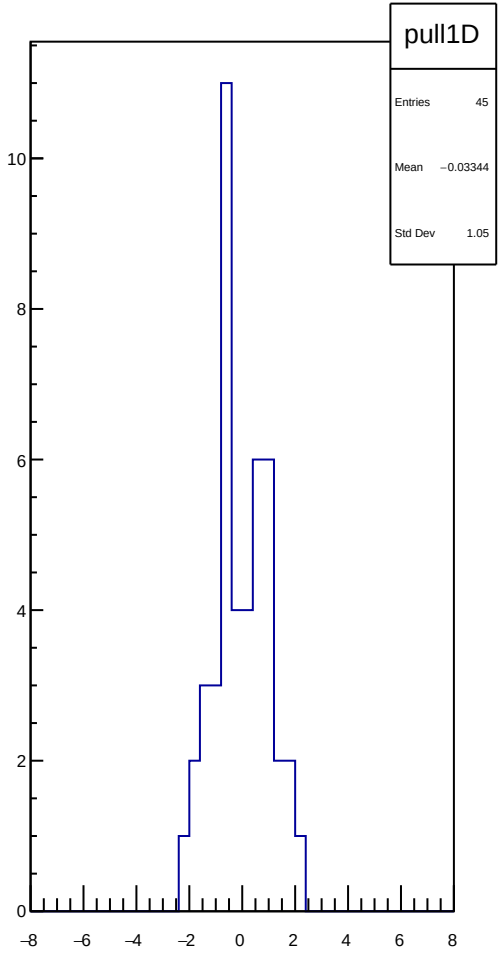

asym_at2_dd_rms vs run
χ² / ndf 55.52 / 44
p0 5353 ± 5.578
5550
5500
5450
5400
5350
5300
5250
5200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

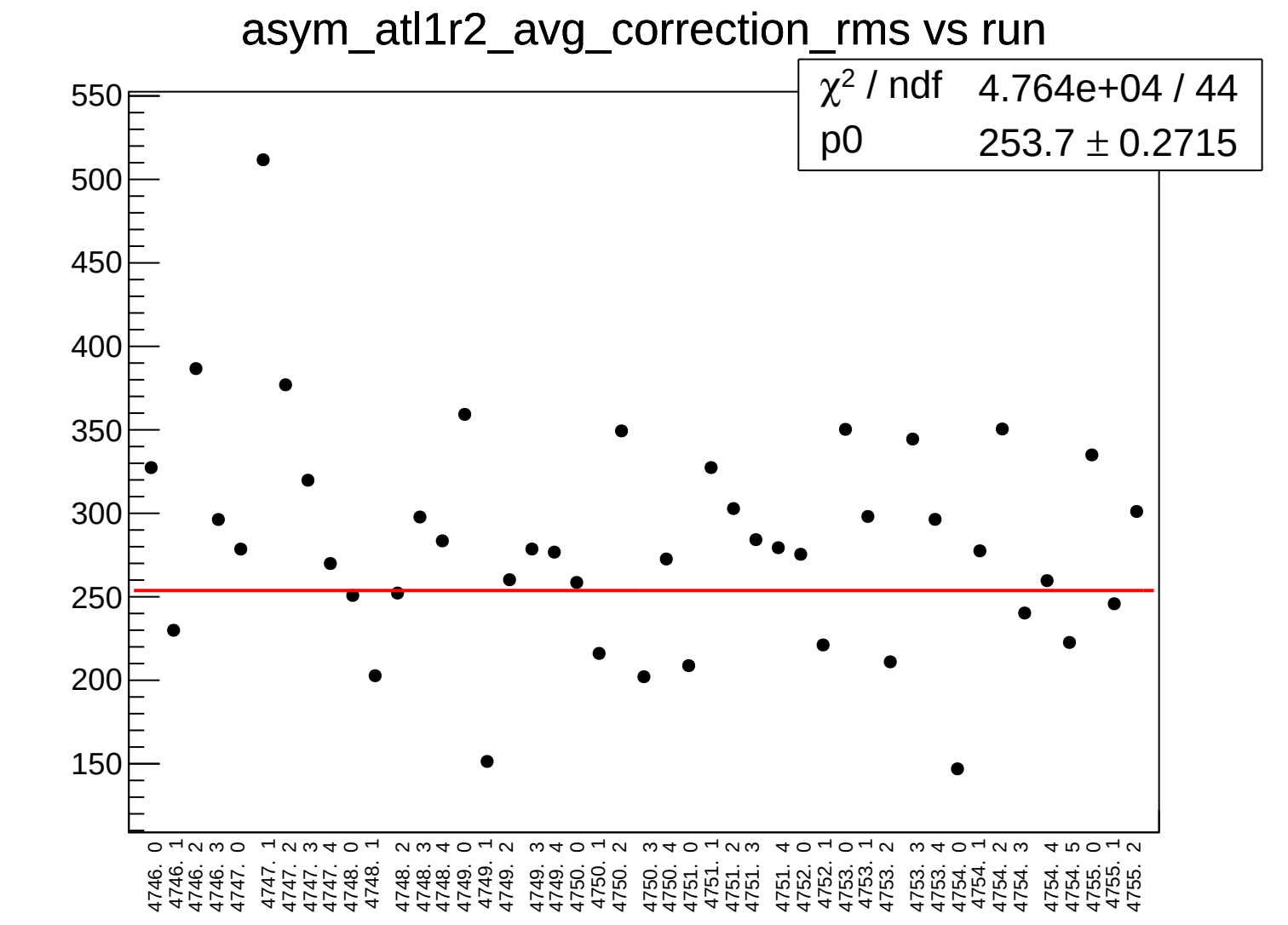

reg_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 54.83 / 44
p0 2.06e+04 ± 8292
200
150
100
50
0
−50
−100
−150
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 148
Std Dev 118.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2

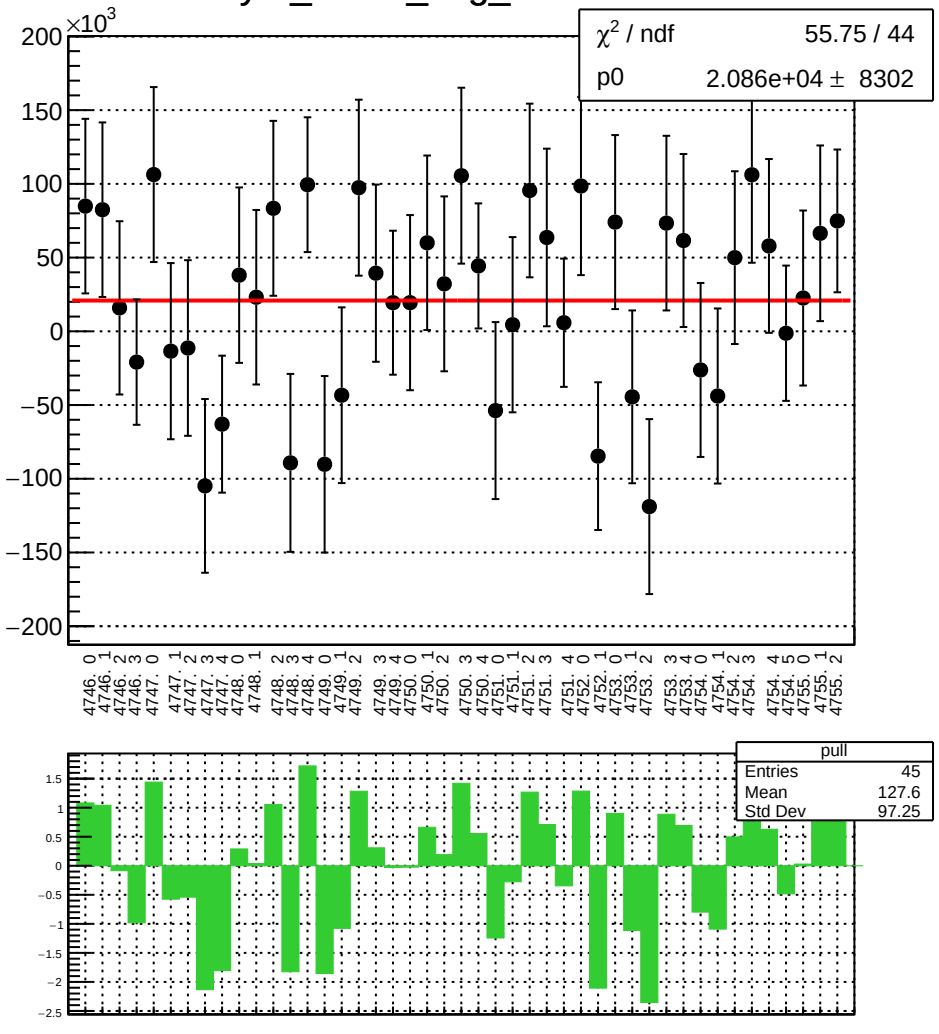

pull1D
Entries 45
Mean 0.01113
Std Dev 1.104
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

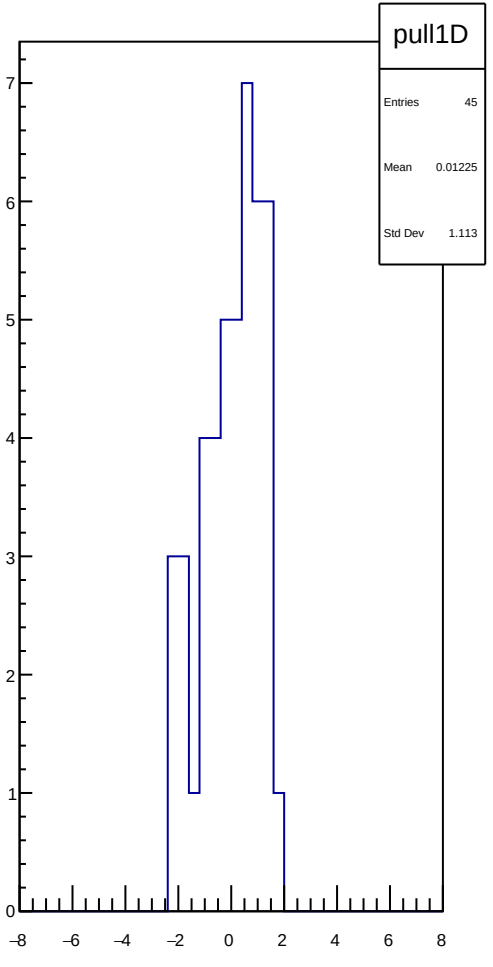

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 57.48 / 44
p0 5627 ± 5.863
5750
5700
5650
5600
5550
5500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

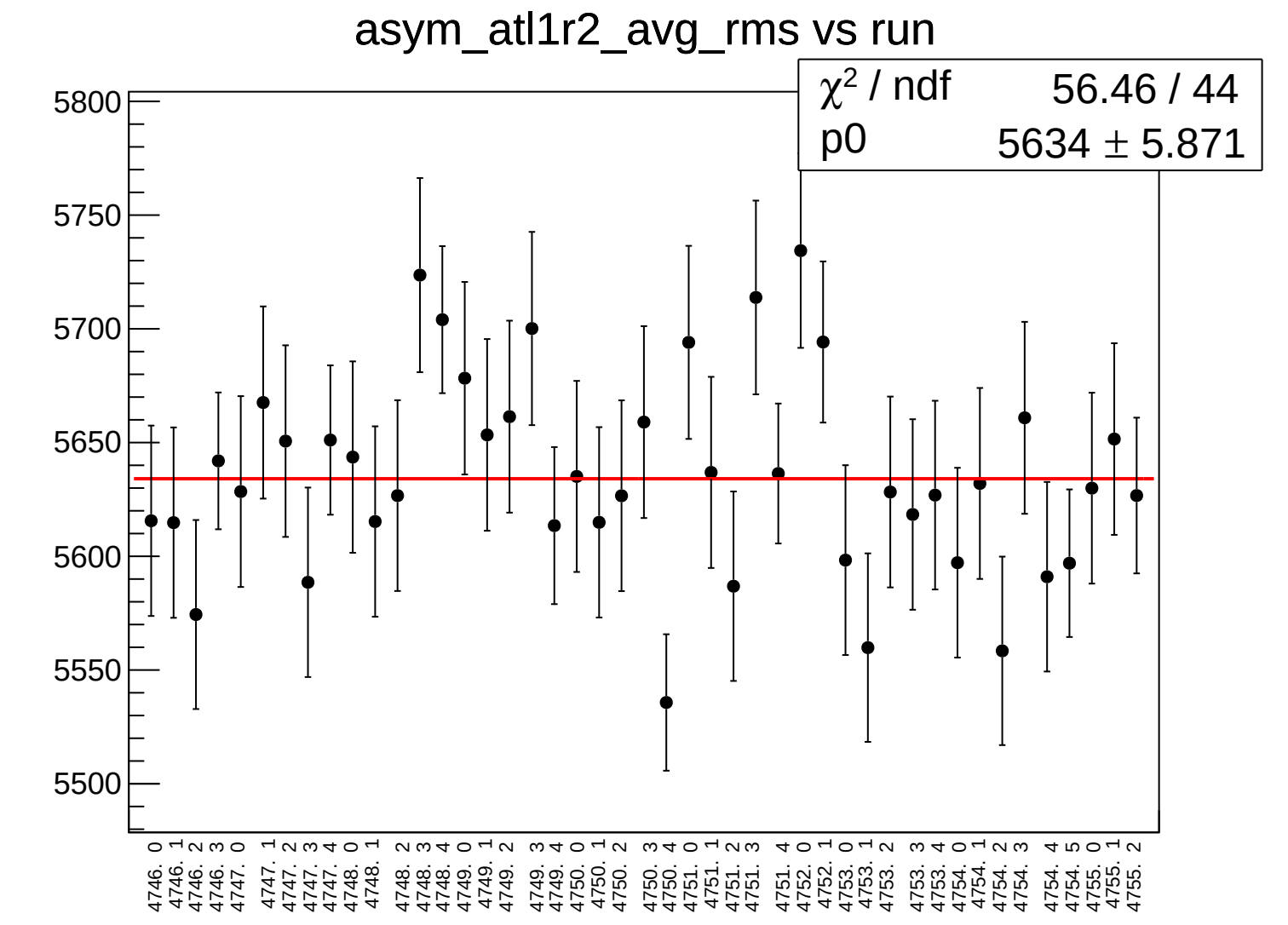

asym_atl1r2_avg_correction_mean vs run
χ² / ndf 49.66 / 44
p0 −253.8 ± 384
10000
5000
0
−5000
−10000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −51.88
Std Dev 74.87
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

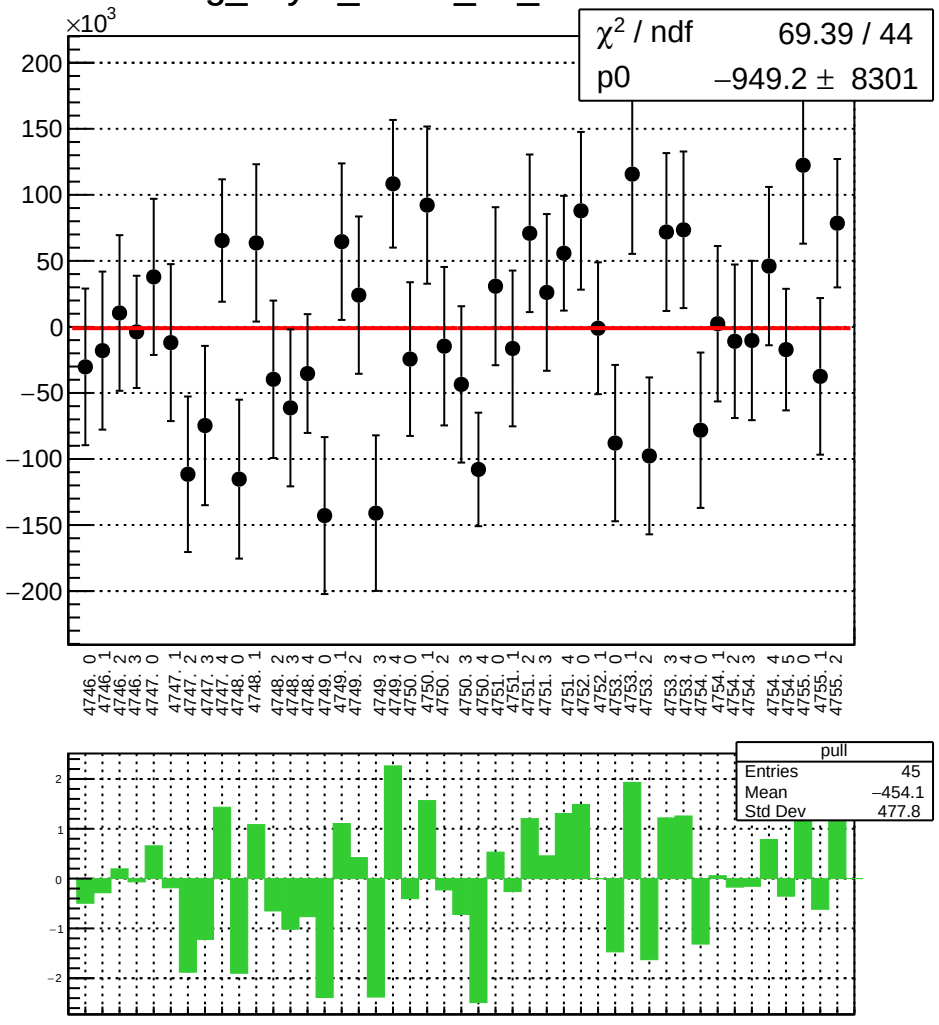

pull1D
Entries 45
Mean −0.03344
Std Dev 1.05
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

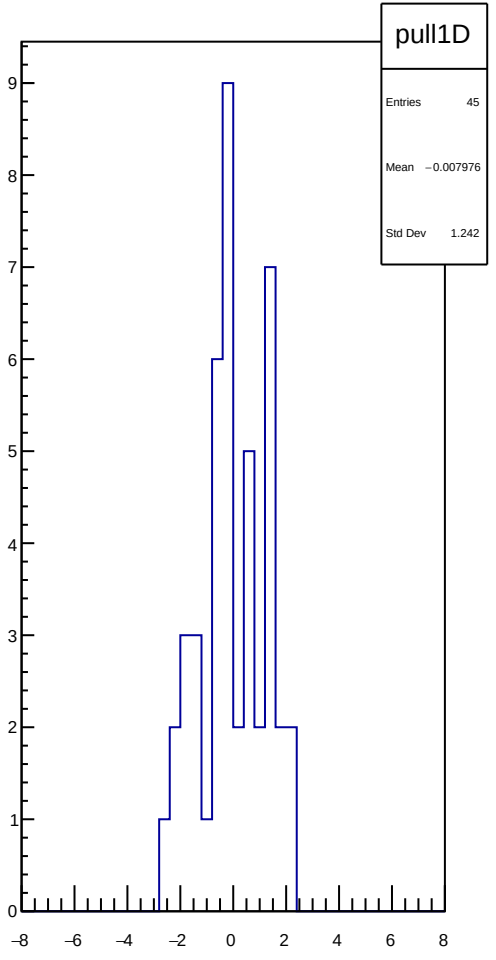

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 4.764e+04 / 44
p0 253.7 ± 0.2715
550
500
450
400
350
300
250
200
150
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

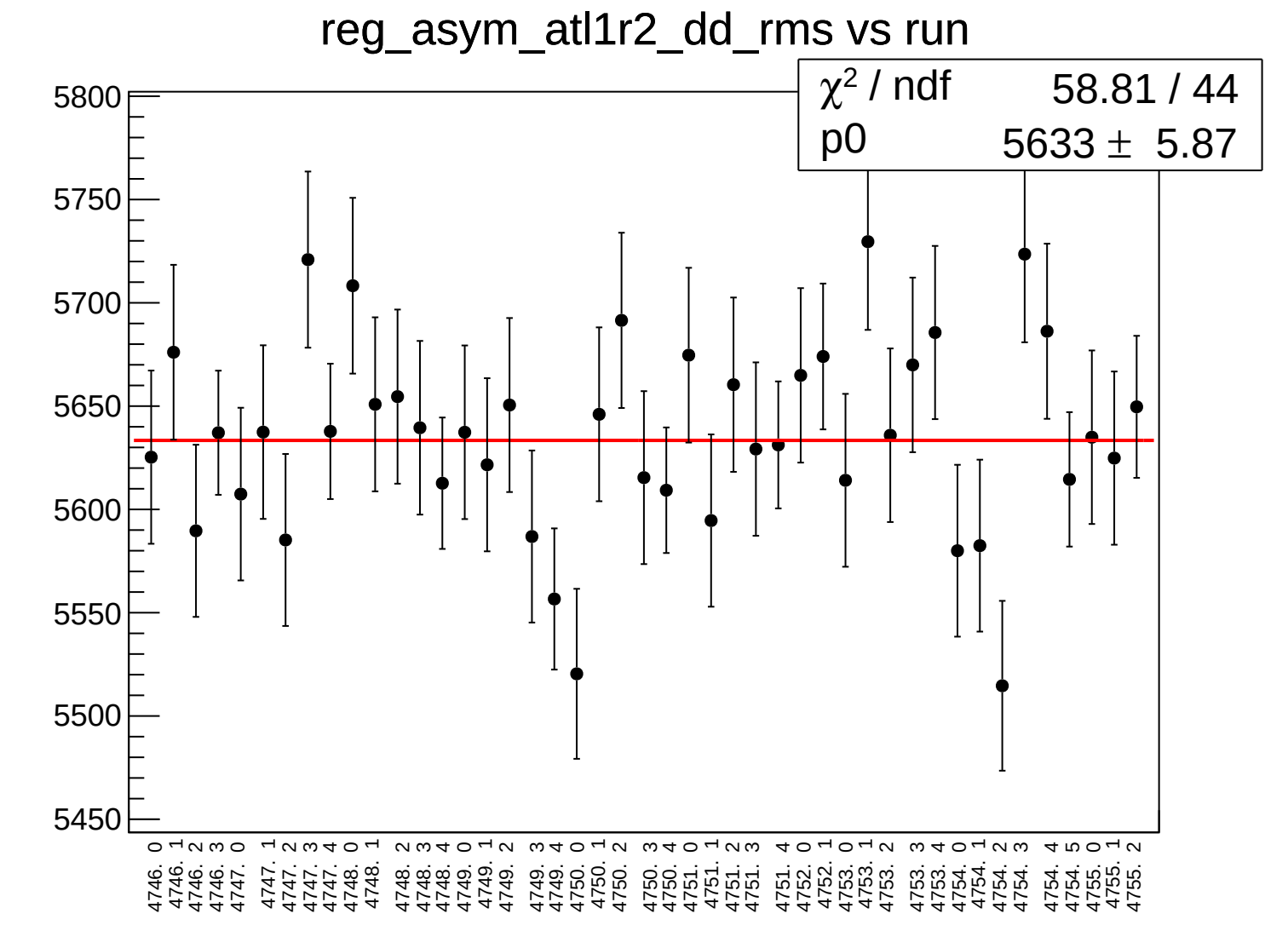

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 55.75 / 44
p0 2.086e+04 ± 8302
pull
Entries 45
Mean 127.6
Std Dev 97.25

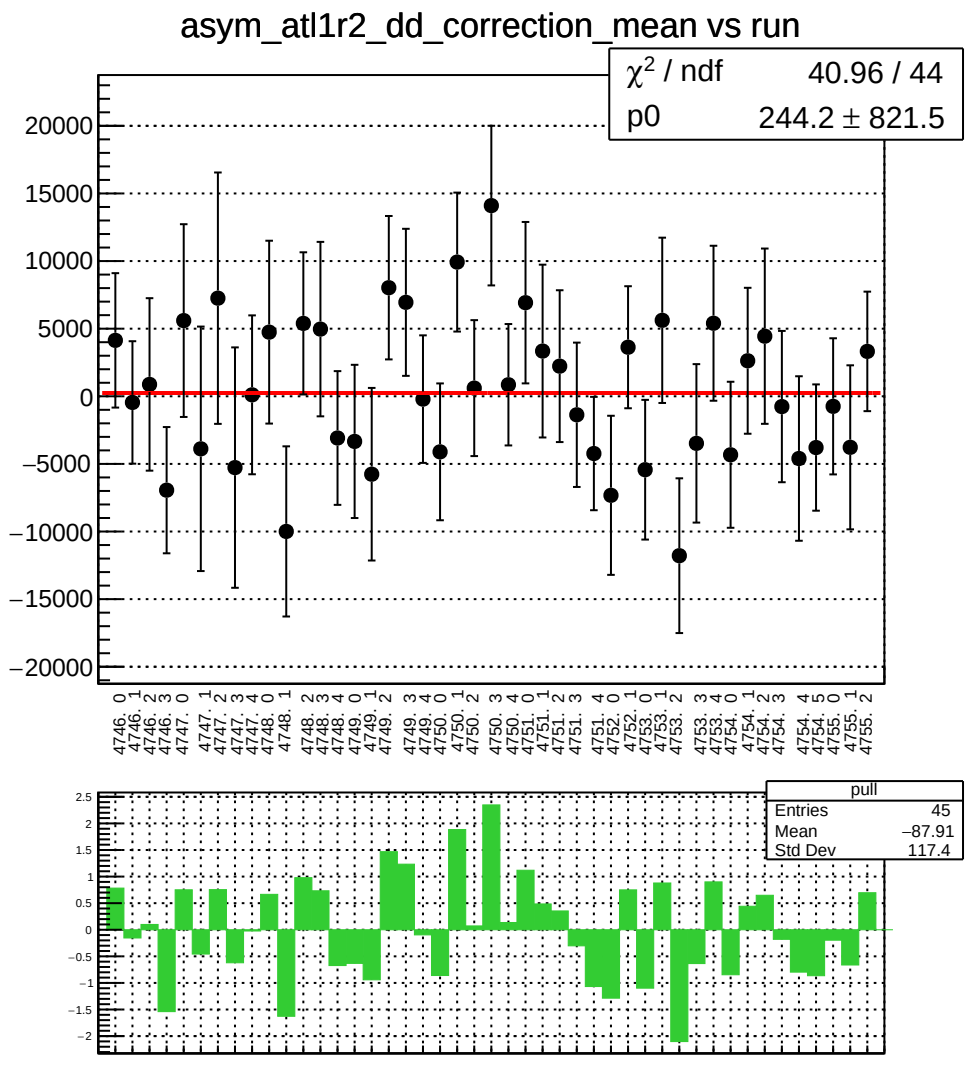

pull1D
Entries 45
Mean 0.01225
Std Dev 1.113

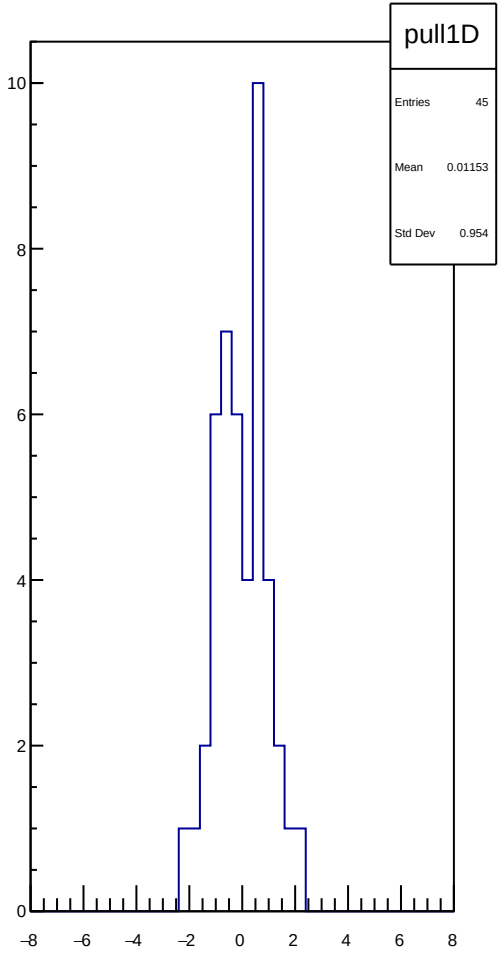

asym_atl1r2_avg_rms vs run
χ^2 / ndf 56.46 / 44
p0 5634 ± 5.871
5800
5750
5700
5650
5600
5550
5500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

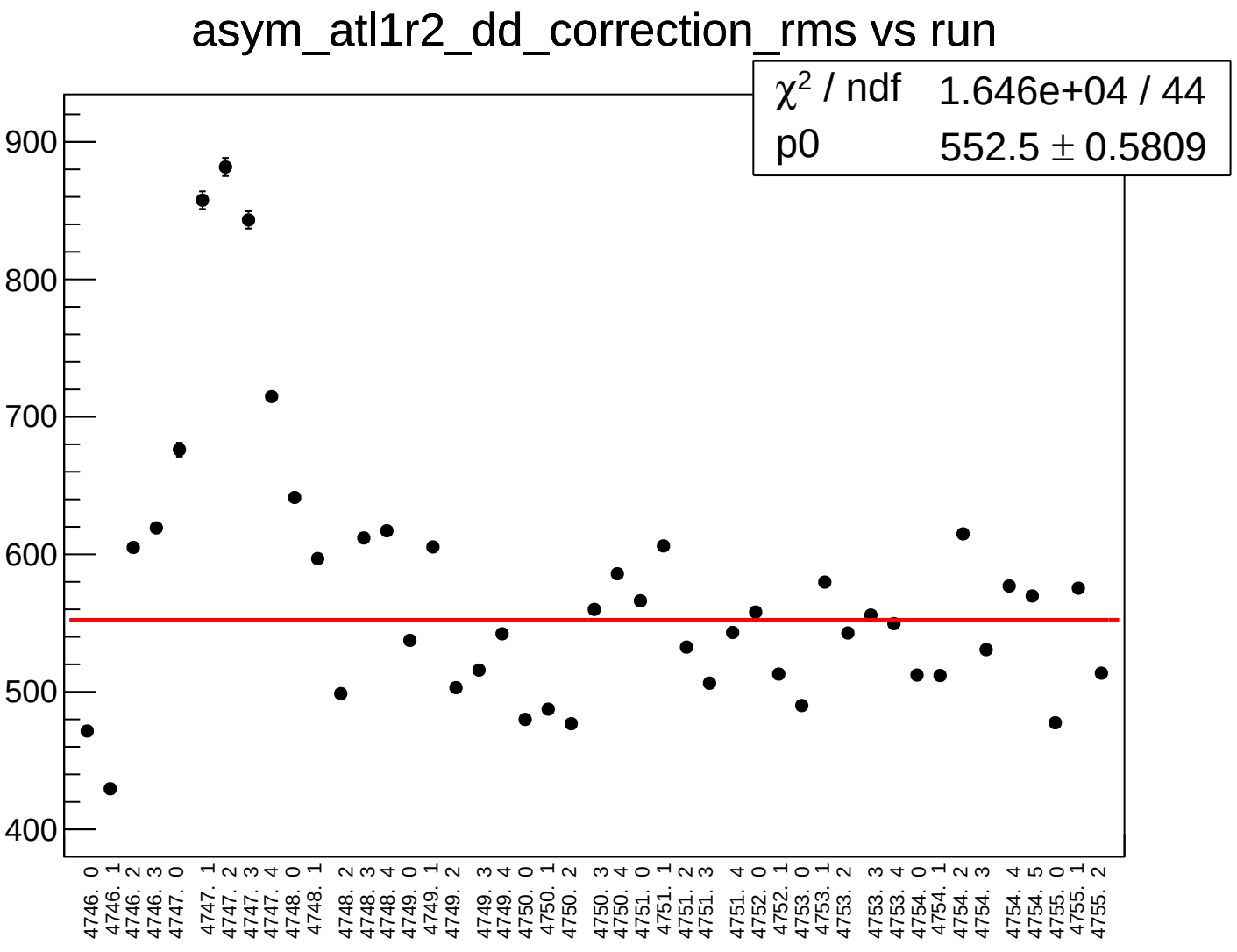

reg_asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 69.39 / 44
p0 −949.2 ± 8301
pull
Entries 45
Mean −454.1
Std Dev 477.8

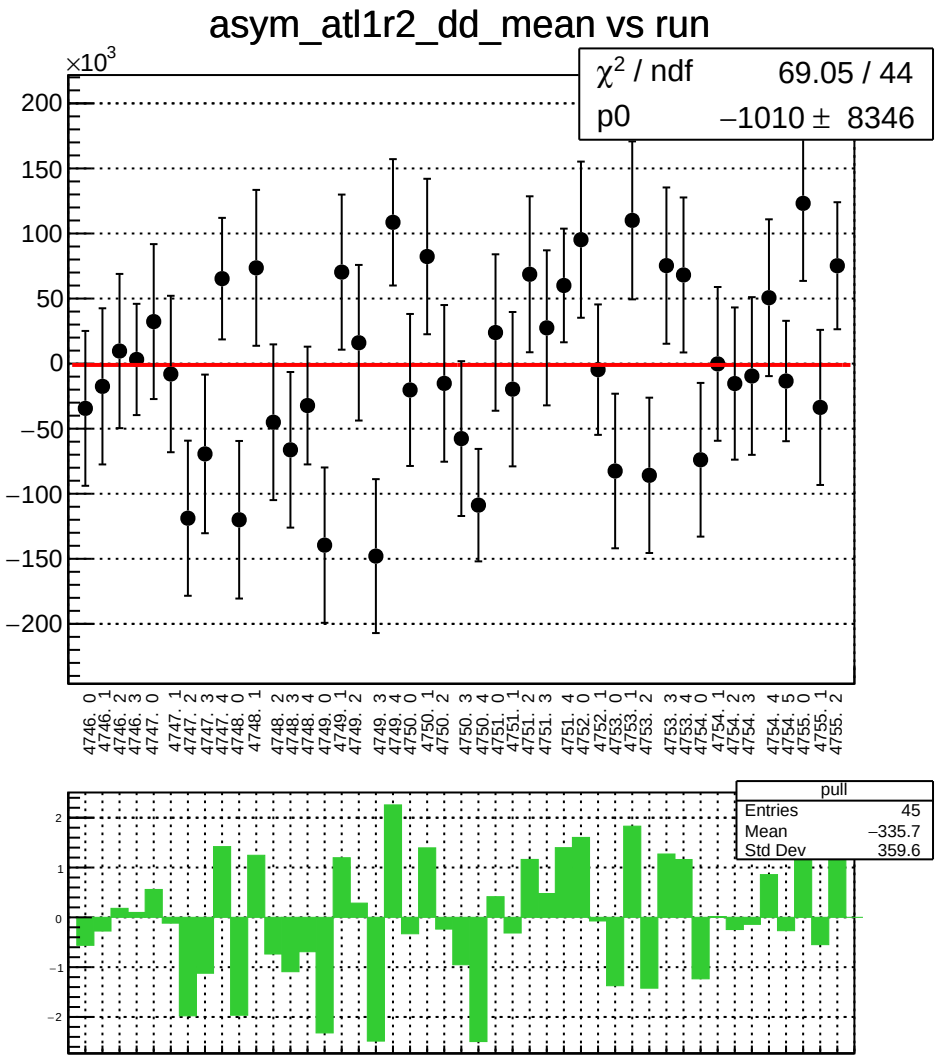

pull1D
Entries 45
Mean −0.007976
Std Dev 1.242

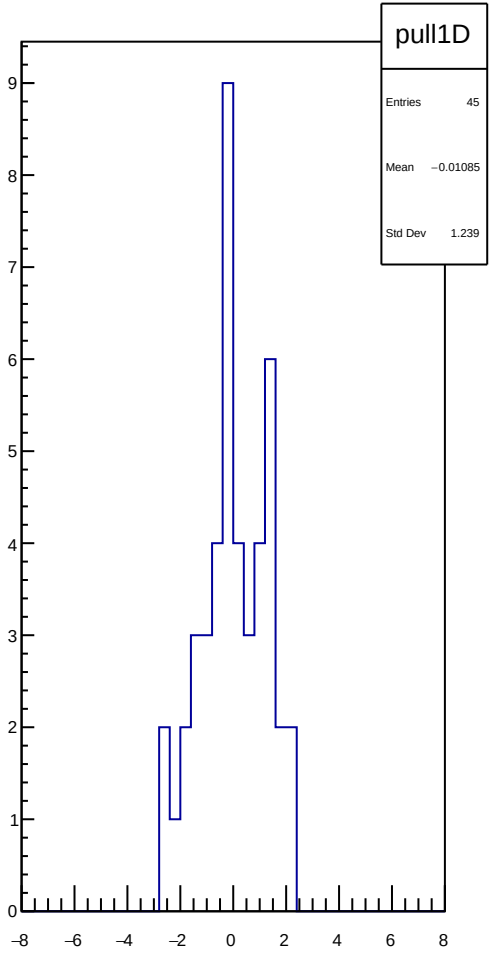

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 58.81 / 44
p0 5633 ± 5.87
5800
5750
5700
5650
5600
5550
5500
5450
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

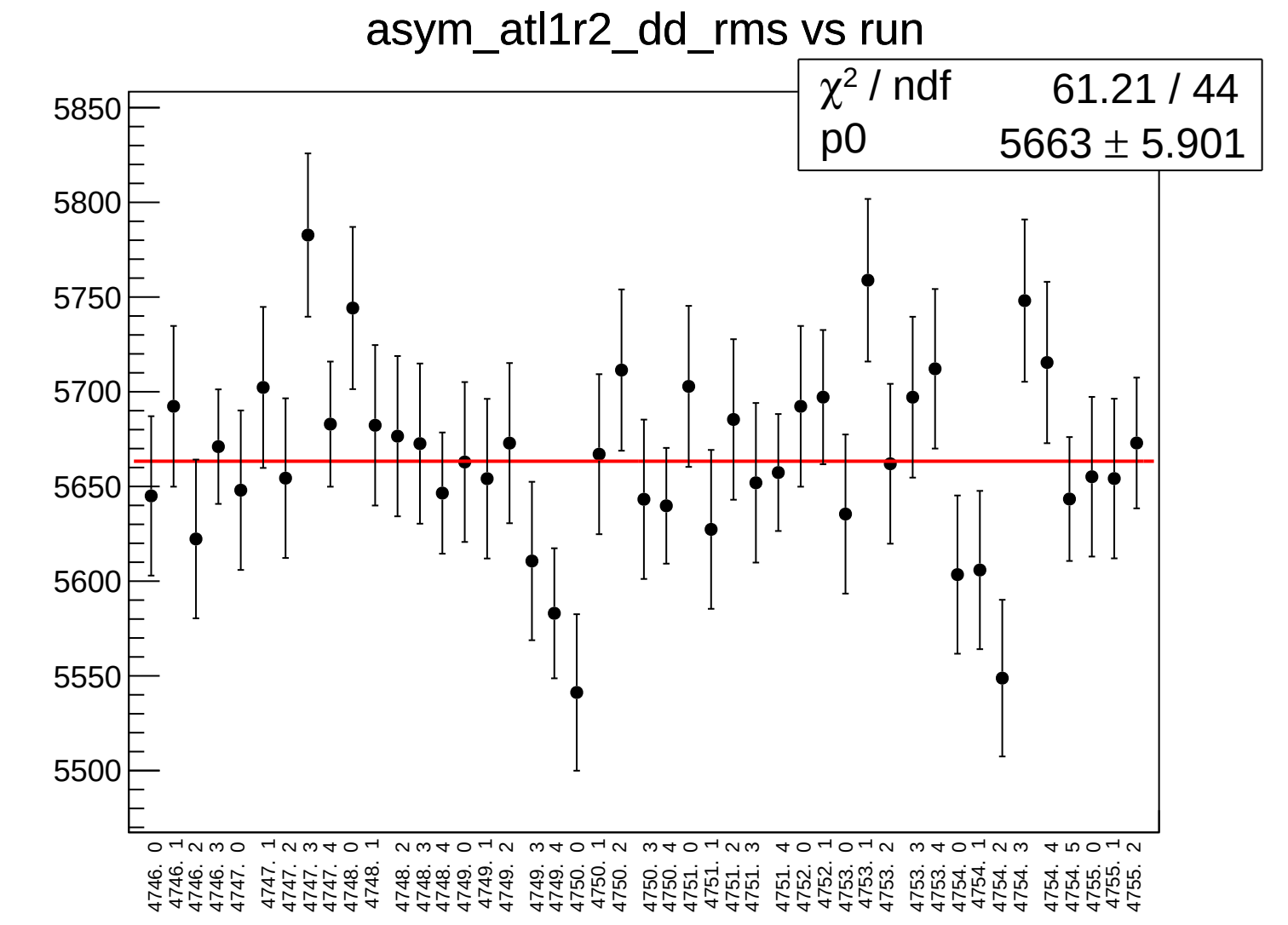

asym_atl1r2_dd_correction_mean vs run
χ² / ndf 40.96 / 44
p0 244.2 ± 821.5
pull
Entries 45
Mean −87.91
Std Dev 117.4

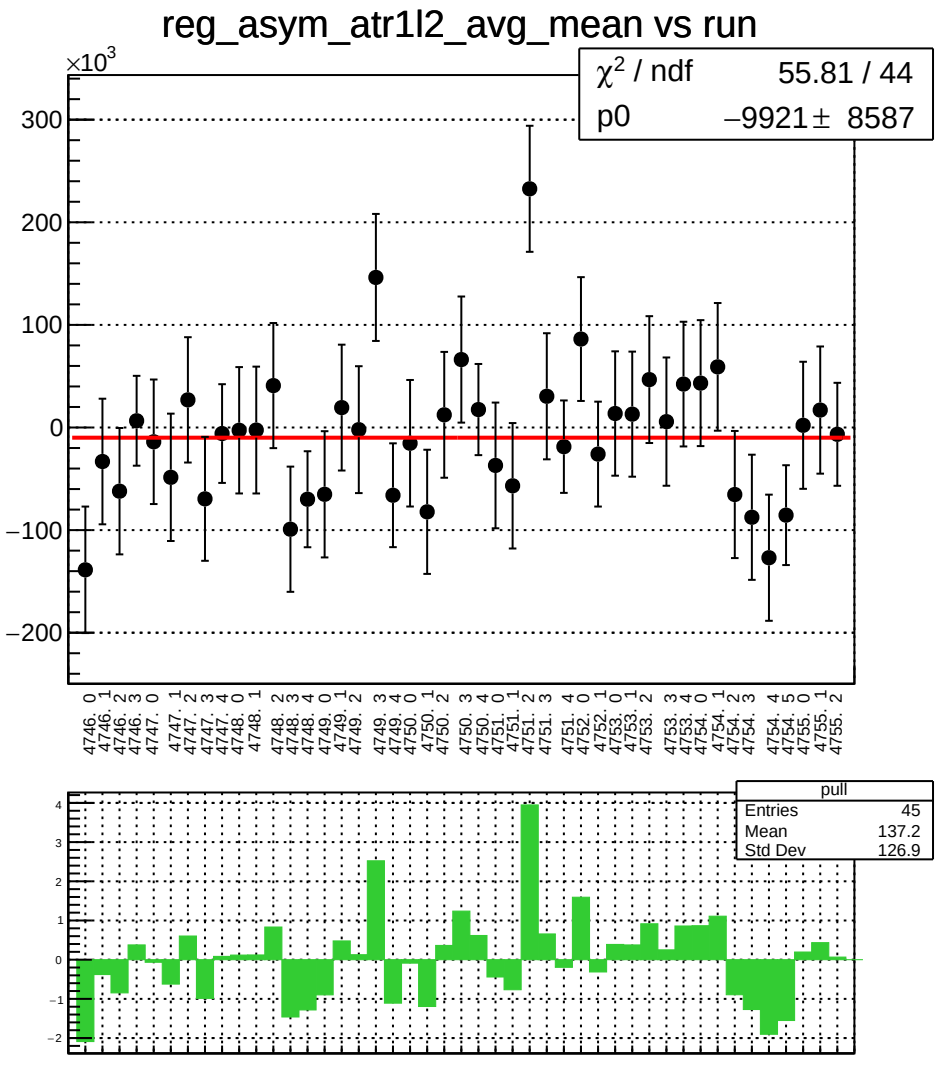

pull1D
Entries 45
Mean 0.01153
Std Dev 0.954

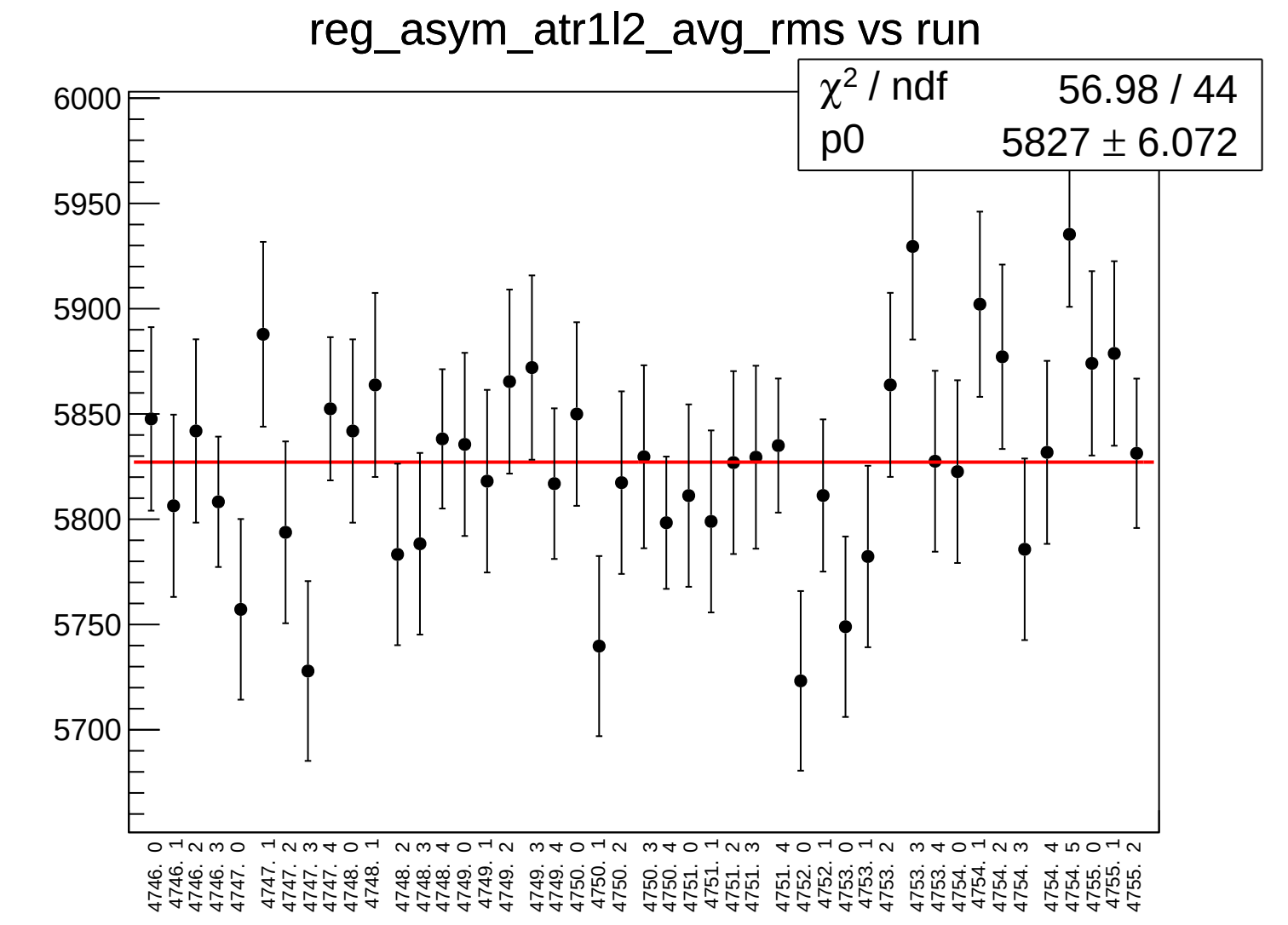

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 1.646e+04 / 44
p0 552.5 ± 0.5809
900
800
700
600
500
400
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

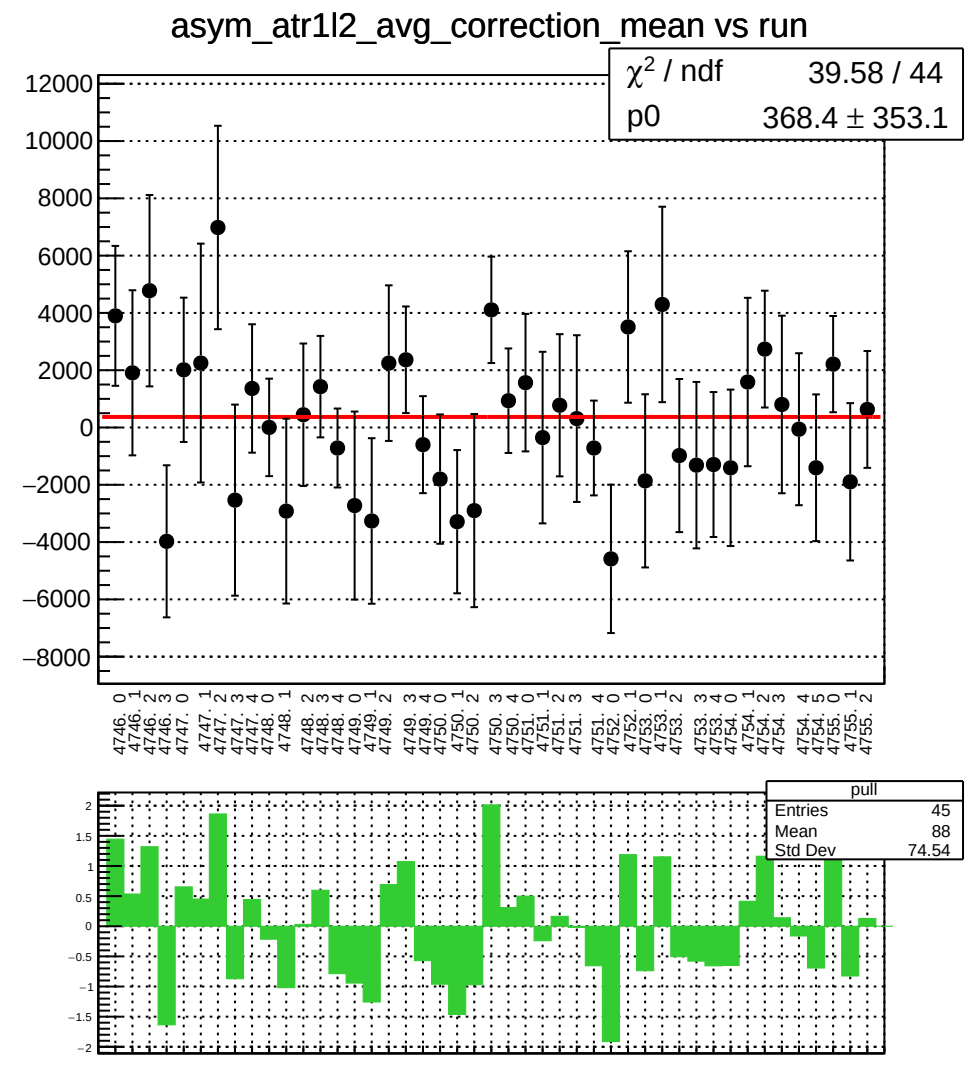

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 69.05 / 44
p0 −1010 ± 8346
200
150
100
50
0
−50
−100
−150
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −335.7
Std Dev 359.6
2
1
0
−1
−2

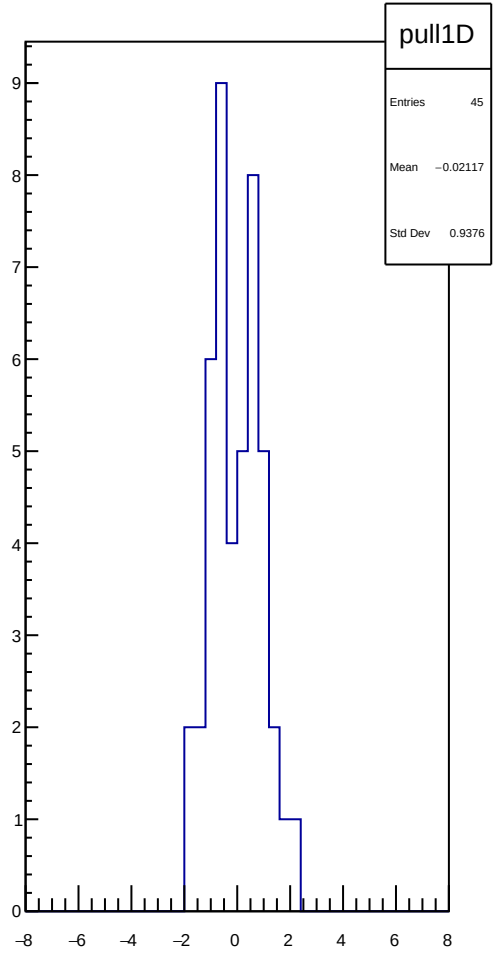

pull1D
Entries 45
Mean −0.01085
Std Dev 1.239
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

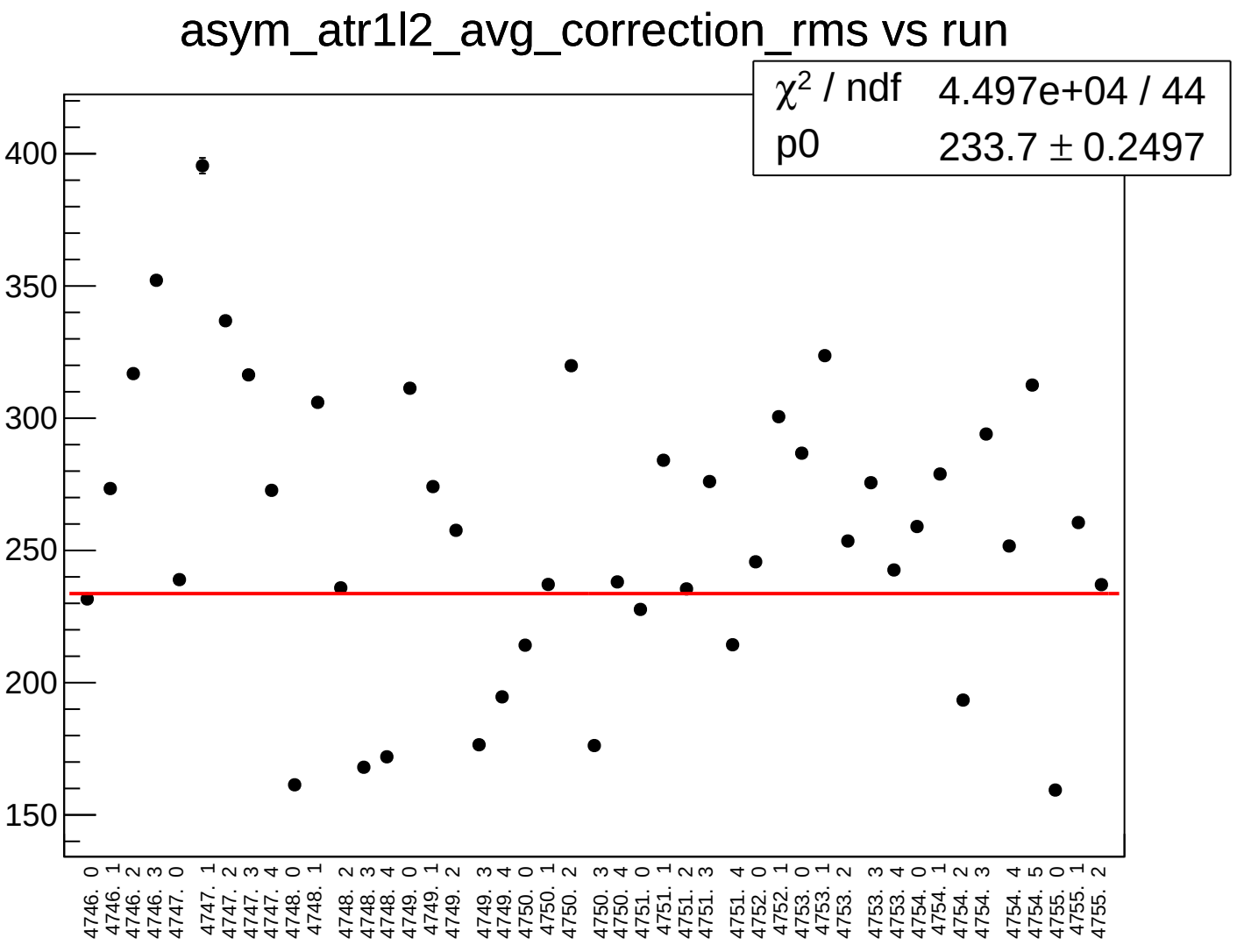

asym_atl1r2_dd_rms vs run
χ^2 / ndf 61.21 / 44
p0 5663 ± 5.901
5850
5800
5750
5700
5650
5600
5550
5500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

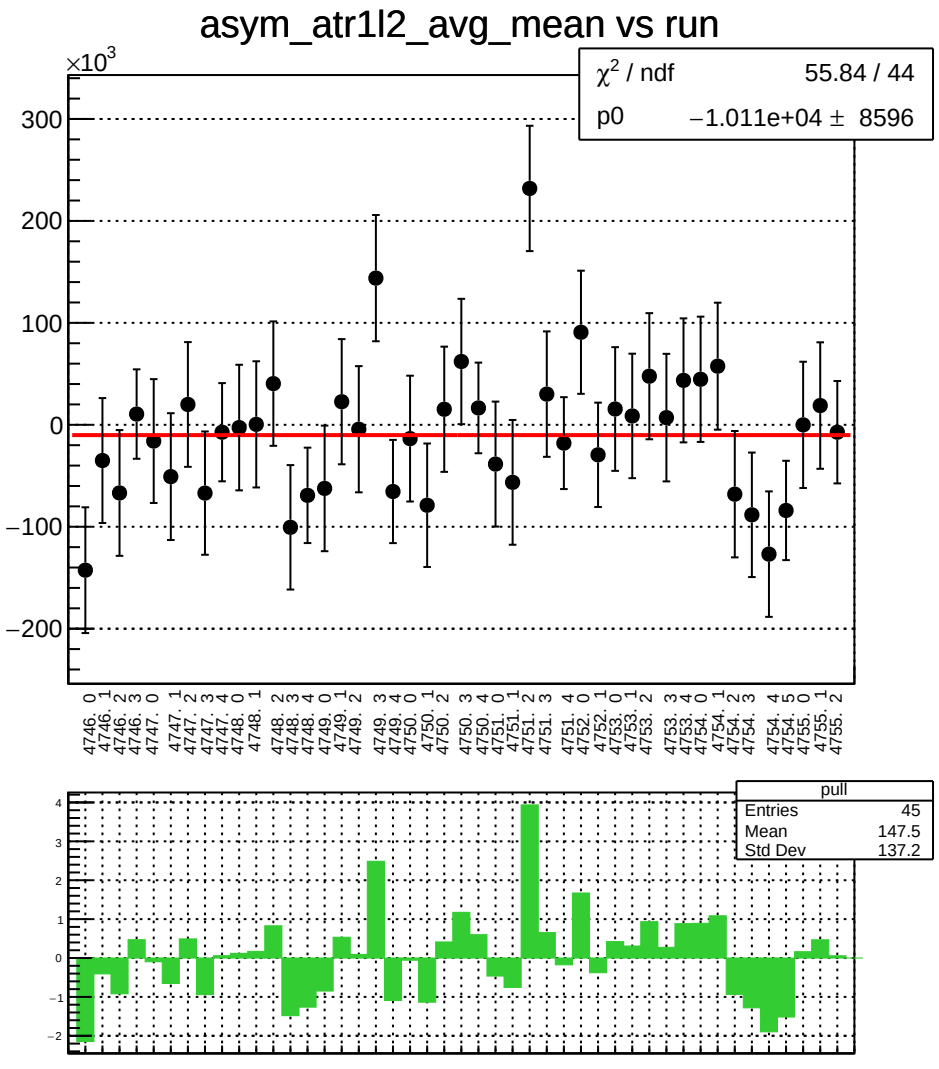

reg_asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 55.81 / 44
p0 −9921 ± 8587
300
200
100
0
−100
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 137.2
Std Dev 126.9
4
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01738
Std Dev 1.114
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

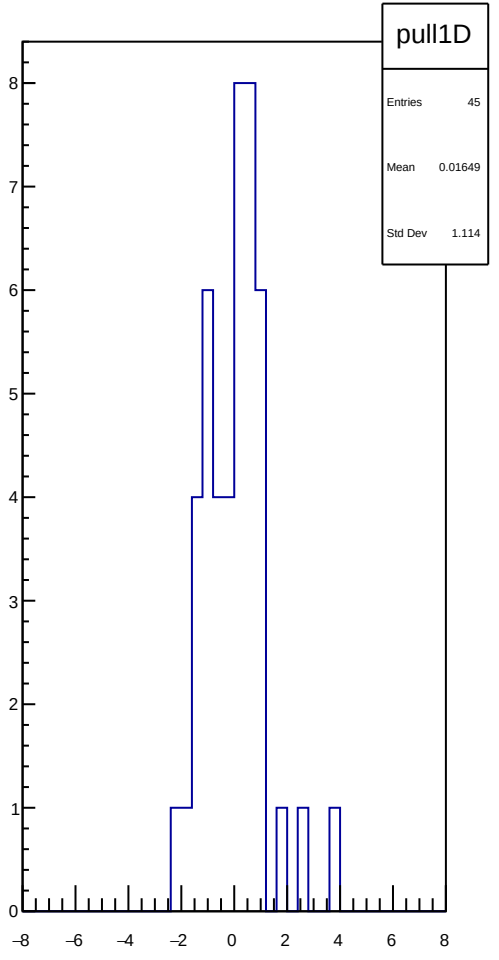

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 56.98 / 44
p0 5827 ± 6.072
6000
5950
5900
5850
5800
5750
5700
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

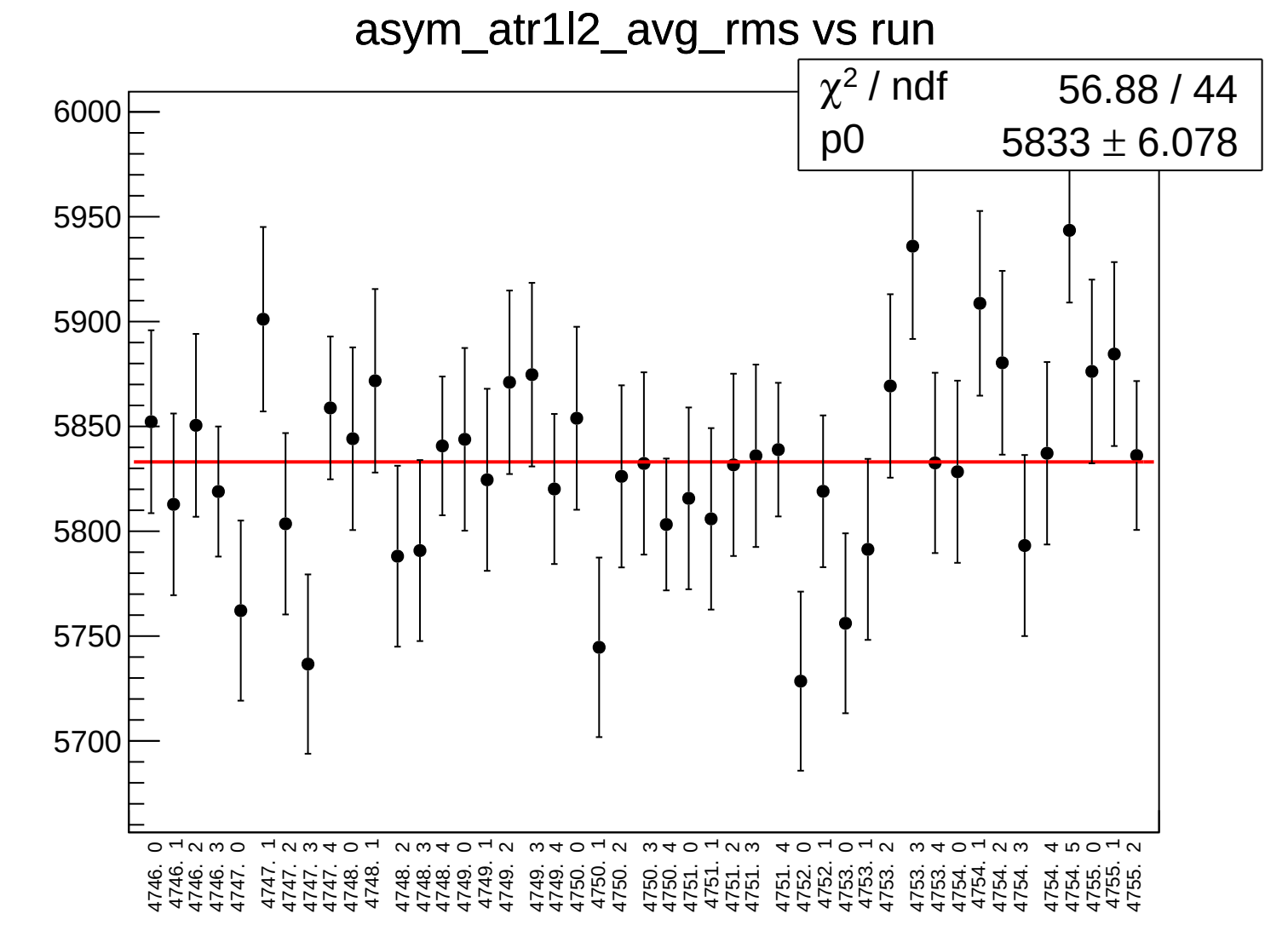

asym_atr1l2_avg_correction_mean vs run
χ² / ndf 39.58 / 44
p0 368.4 ± 353.1
pull
Entries 45
Mean 88
Std Dev 74.54

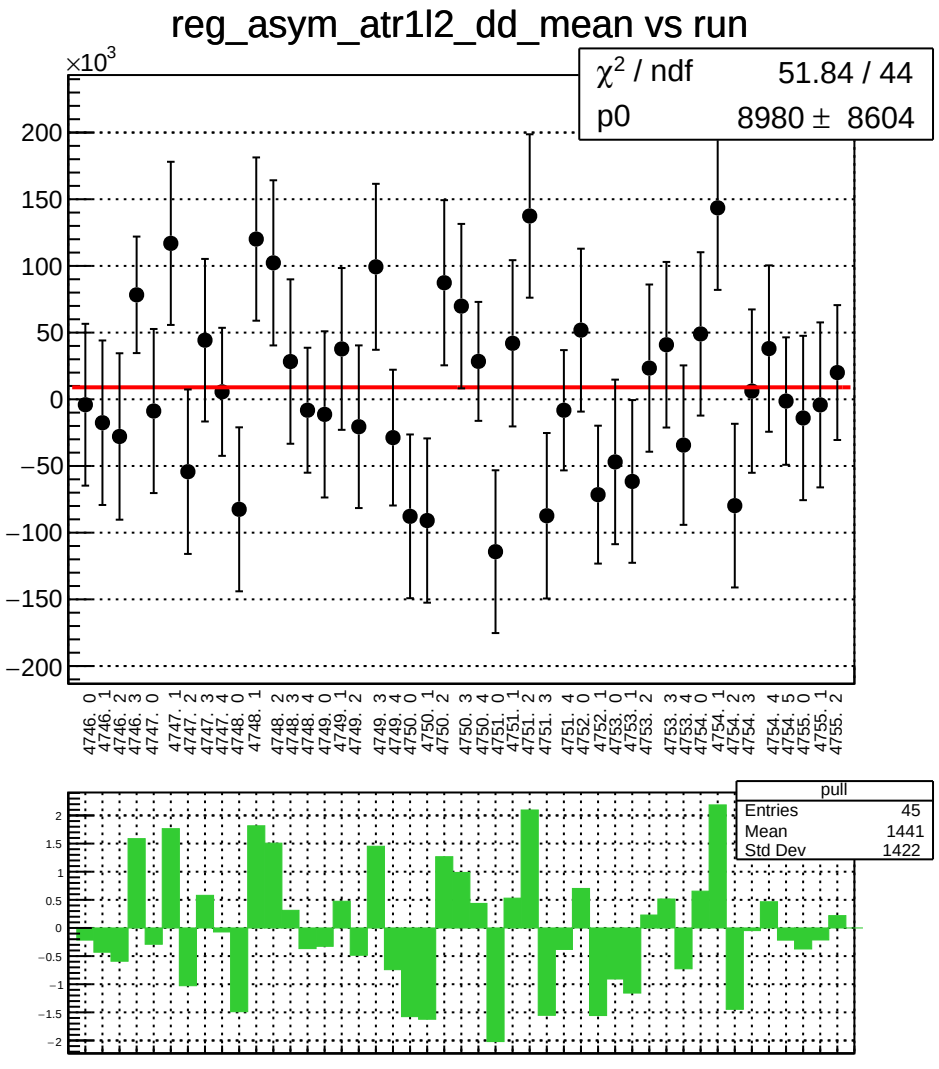

pull1D
Entries 45
Mean −0.02117
Std Dev 0.9376

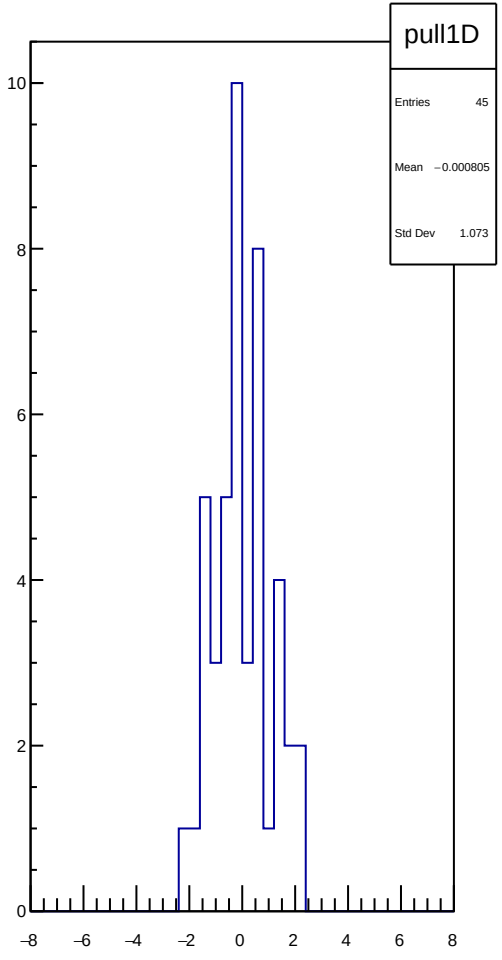

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 4.497e+04 / 44
p0 233.7 ± 0.2497
400
350
300
250
200
150
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

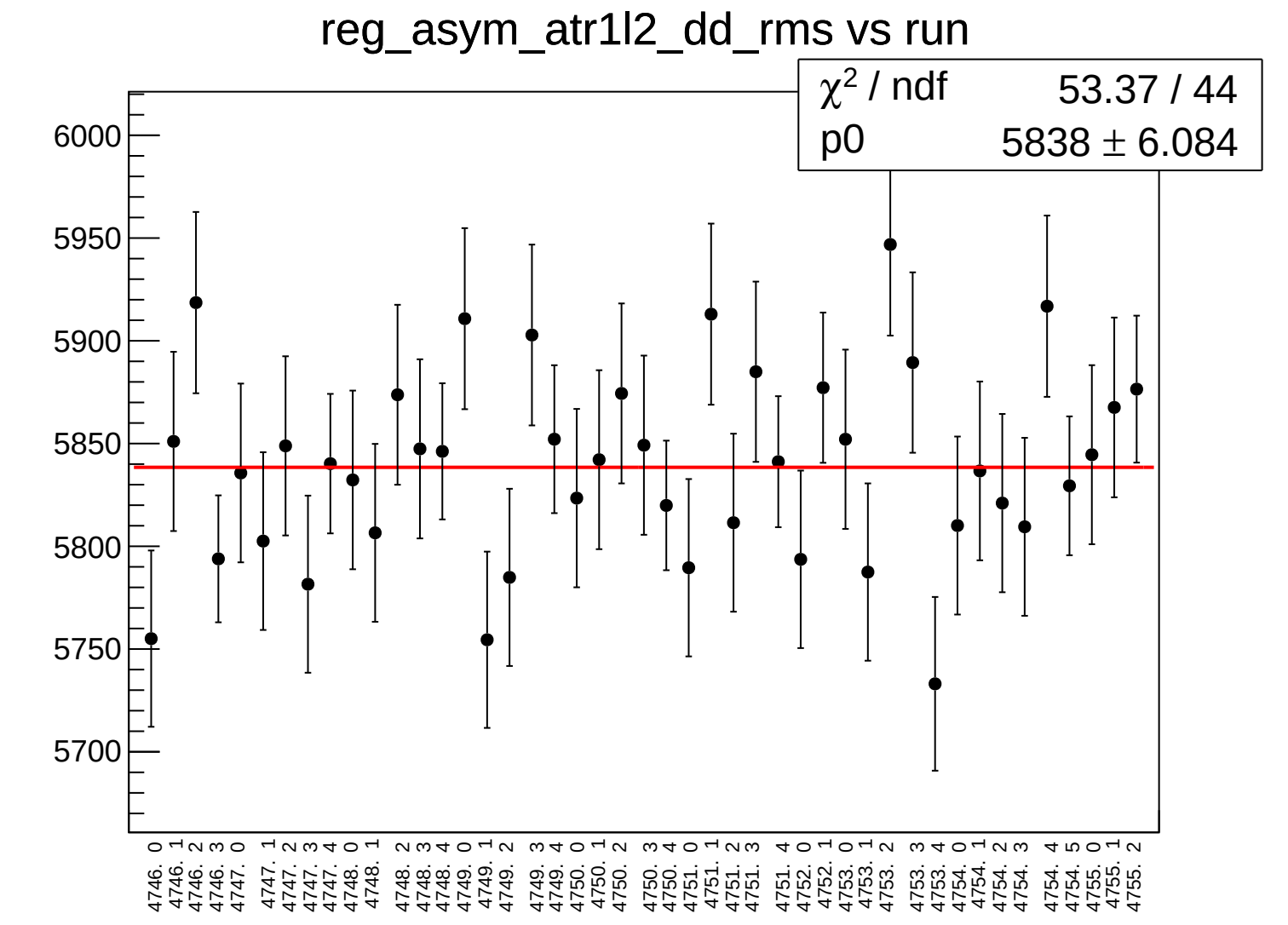

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 55.84 / 44
p0 −1.011e+04 ± 8596
300
200
100
0
−100
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 147.5
Std Dev 137.2
4
3
2
1
0
−1
−2

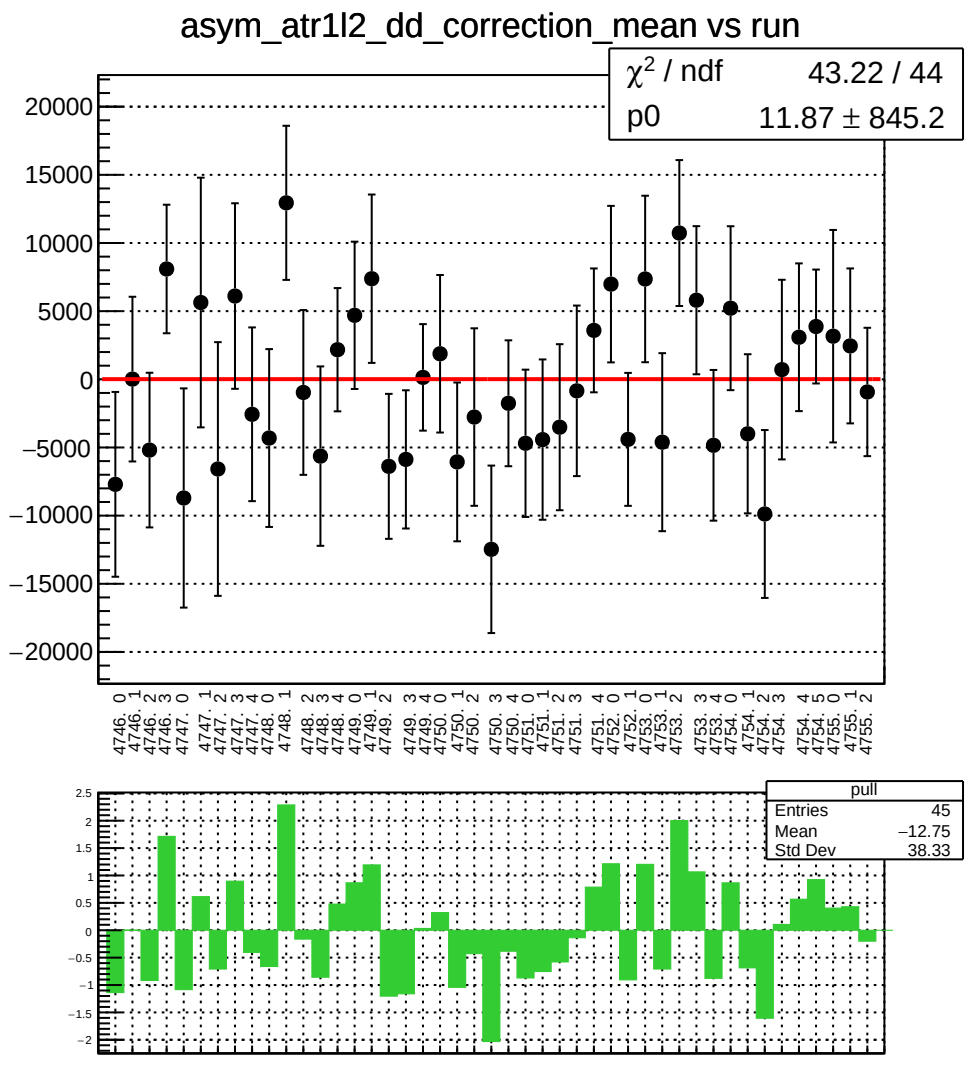

pull1D
Entries 45
Mean 0.01649
Std Dev 1.114
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

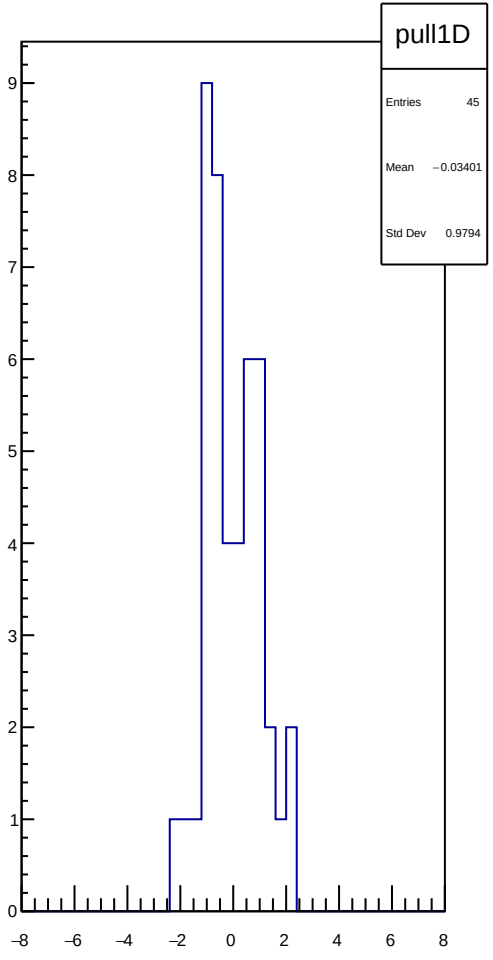

asym_atr1l2_avg_rms vs run
χ² / ndf 56.88 / 44
p0 5833 ± 6.078
6000
5950
5900
5850
5800
5750
5700
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

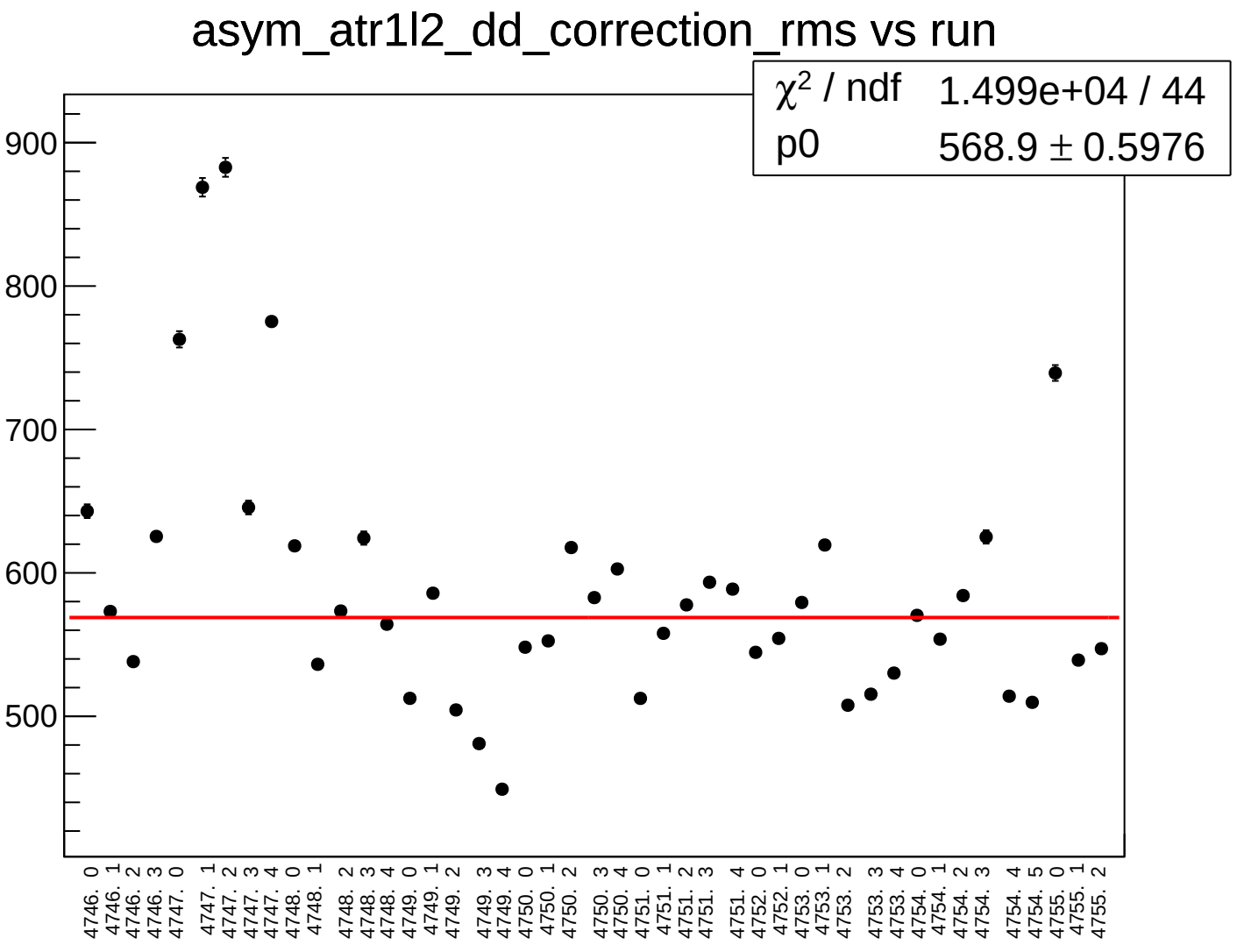

reg_asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 51.84 / 44
p0 8980 ± 8604
200
150
100
50
0
−50
−100
−150
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 1441
Std Dev 1422
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

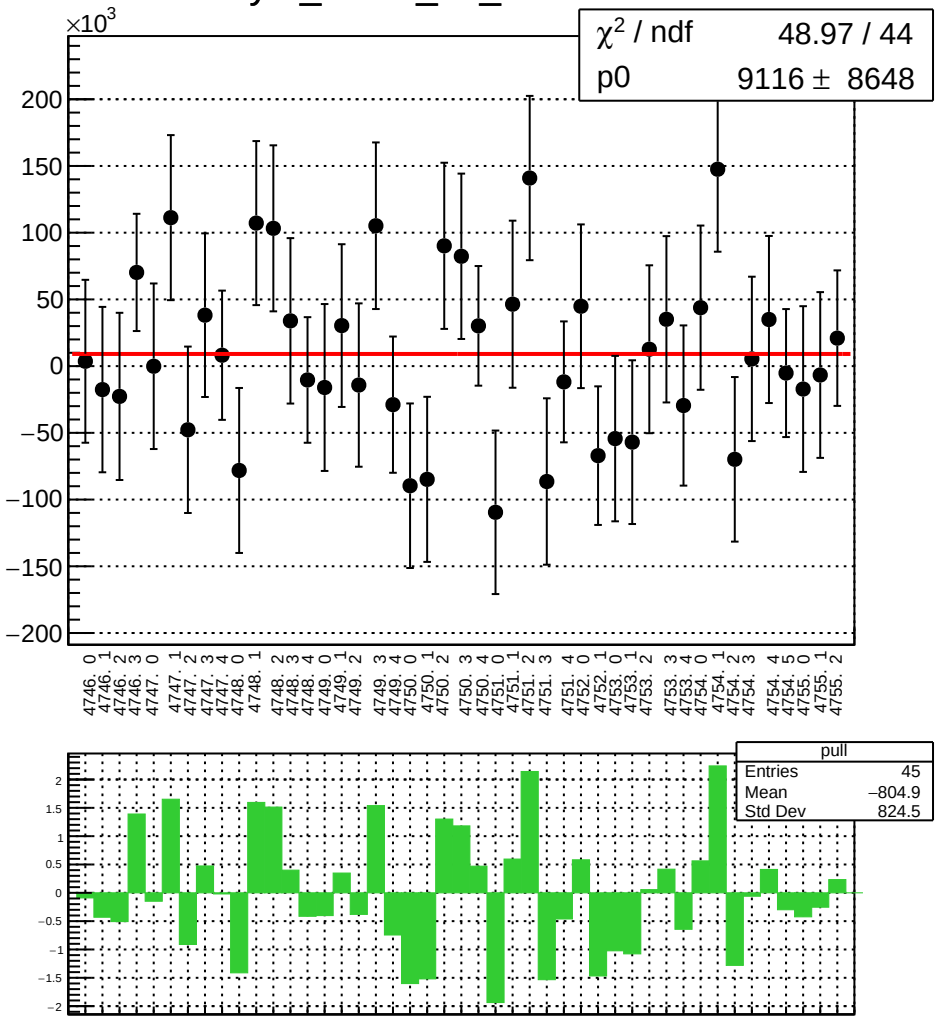

pull1D
Entries 45
Mean −0.000805
Std Dev 1.073
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

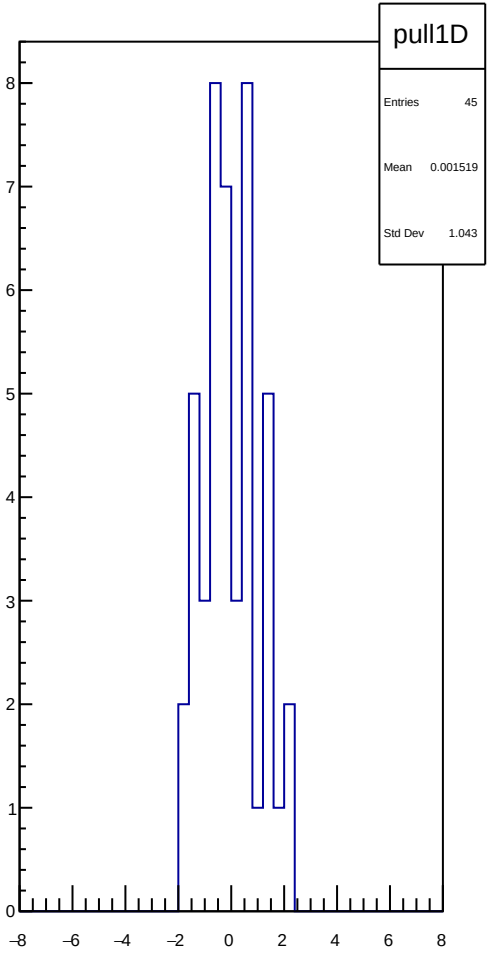

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 53.37 / 44
p0 5838 ± 6.084
6000
5950
5900
5850
5800
5750
5700
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2


asym_atr1l2_dd_correction_mean vs run
χ² / ndf 43.22 / 44
p0 11.87 ± 845.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −12.75
Std Dev 38.33
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.03401
Std Dev 0.9794
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_correction_rms vs run
χ² / ndf 1.499e+04 / 44
p0 568.9 ± 0.5976
900
800
700
600
500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2


asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 48.97 / 44
p0 9116 ± 8648
200
150
100
50
0
−50
−100
−150
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −804.9
Std Dev 824.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.001519
Std Dev 1.043
8
7
6
5
4
3
2
1
0
−8
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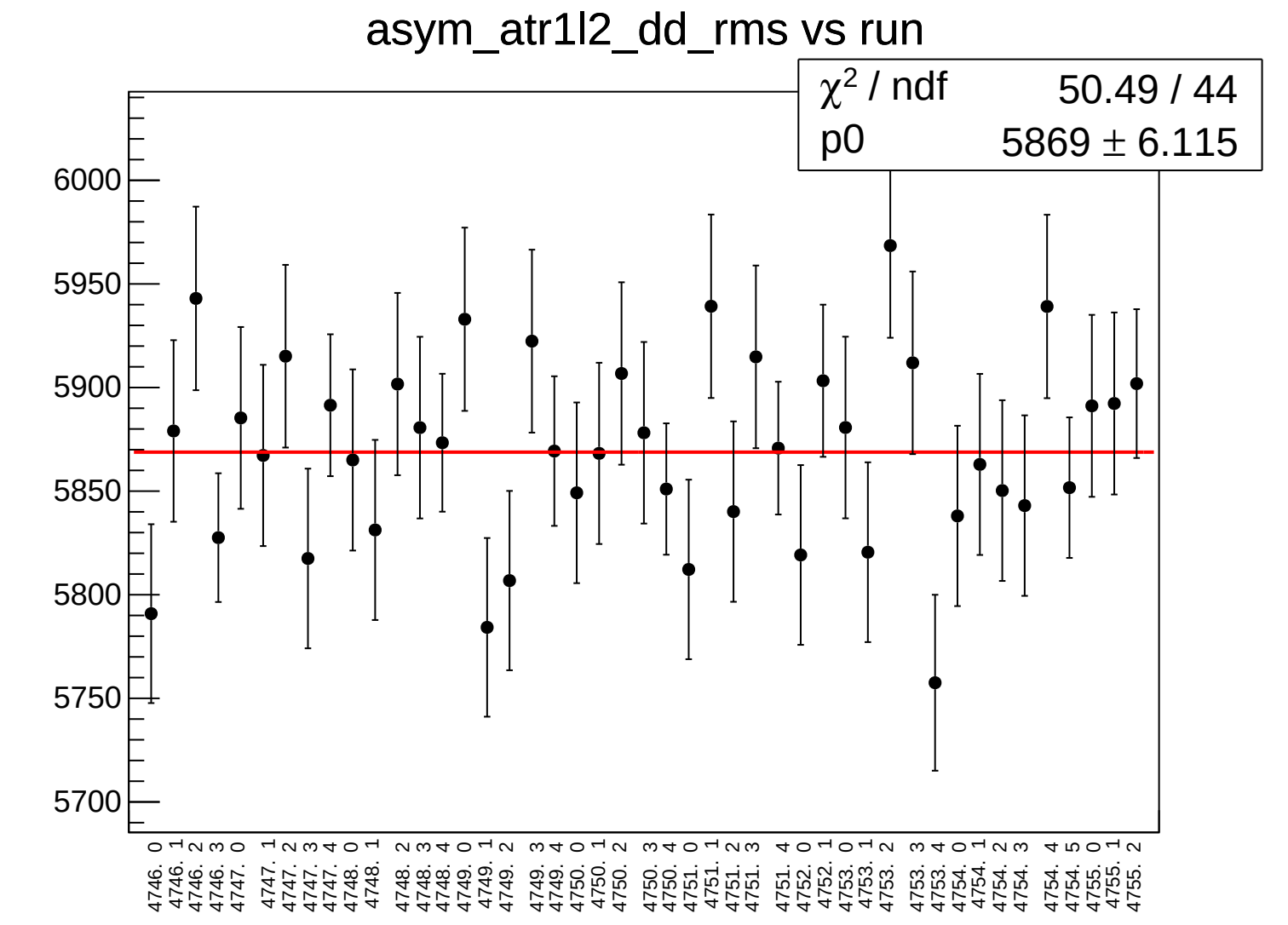
6
8


asym_atr1l2_dd_rms vs run
χ² / ndf 50.49 / 44
p0 5869 ± 6.115
6000
5950
5900
5850
5800
5750
5700
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
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4749. 0
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4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
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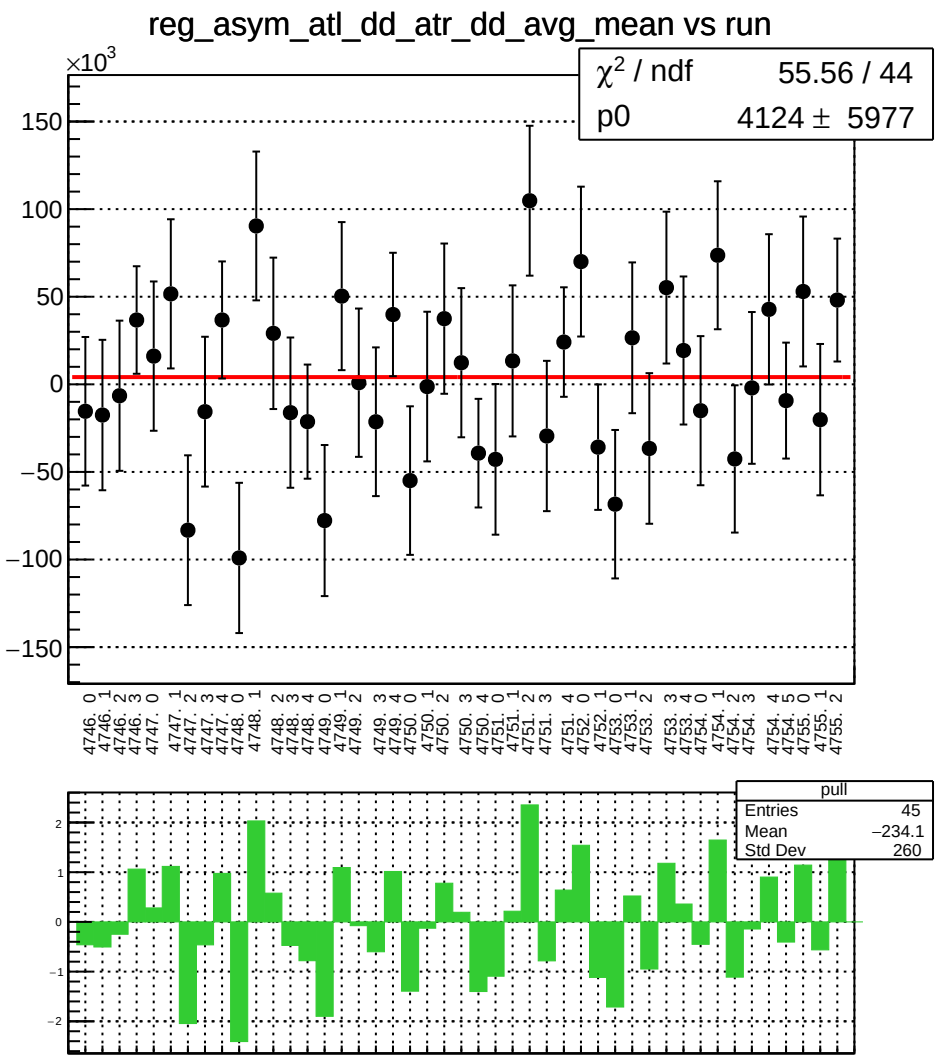
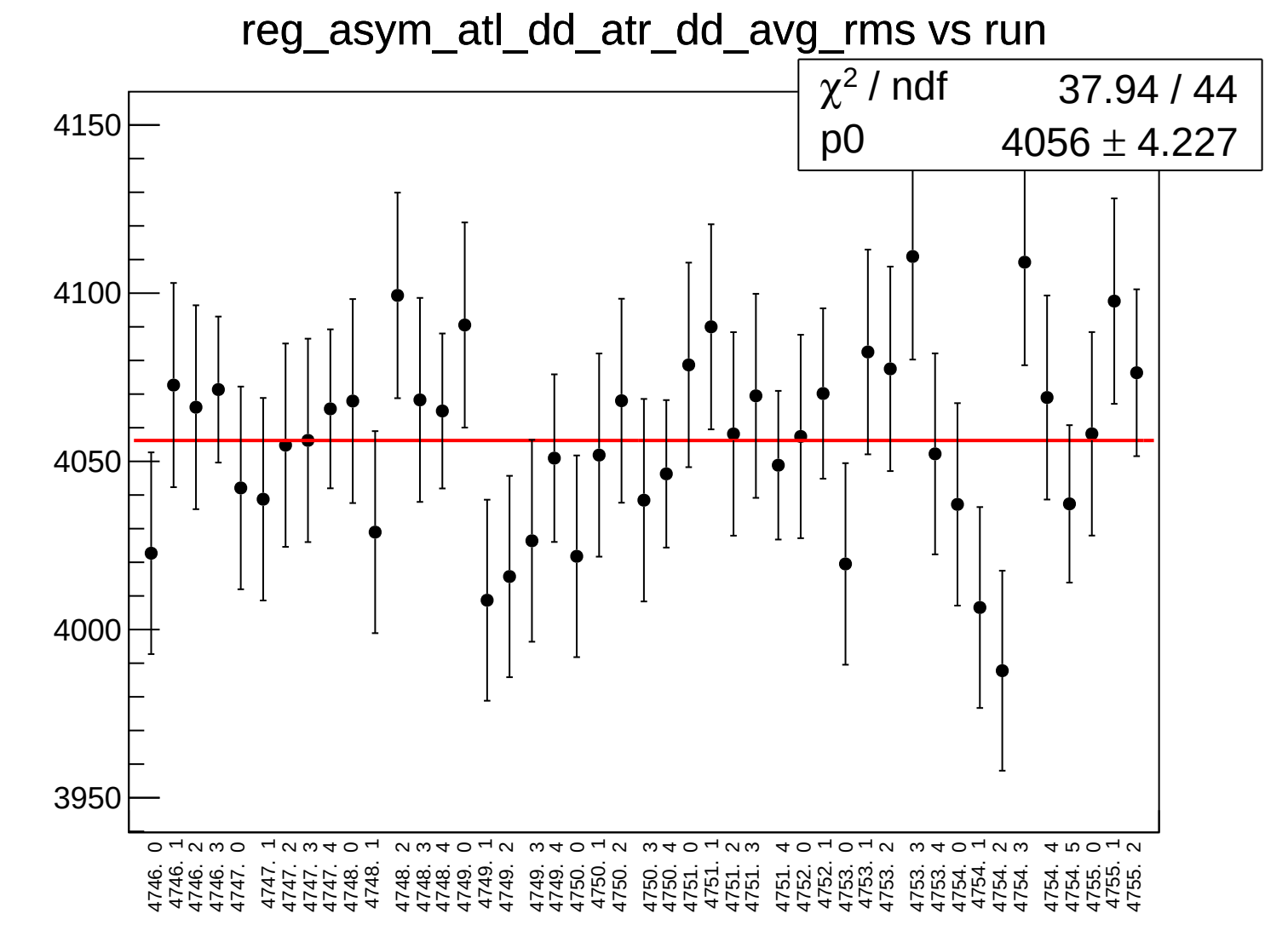
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2


reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 55.56 / 44
p0 4124 ± 5977
150
100
50
0
−50
−100
−150
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −234.1
Std Dev 260
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.007113
Std Dev 1.111
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 37.94 / 44
p0 4056 ± 4.227
4150
4100
4050
4000
3950
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
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4748. 0
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4750. 0
4750. 1
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4751. 2
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4753. 2
4753. 3
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4754. 3
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4754. 5
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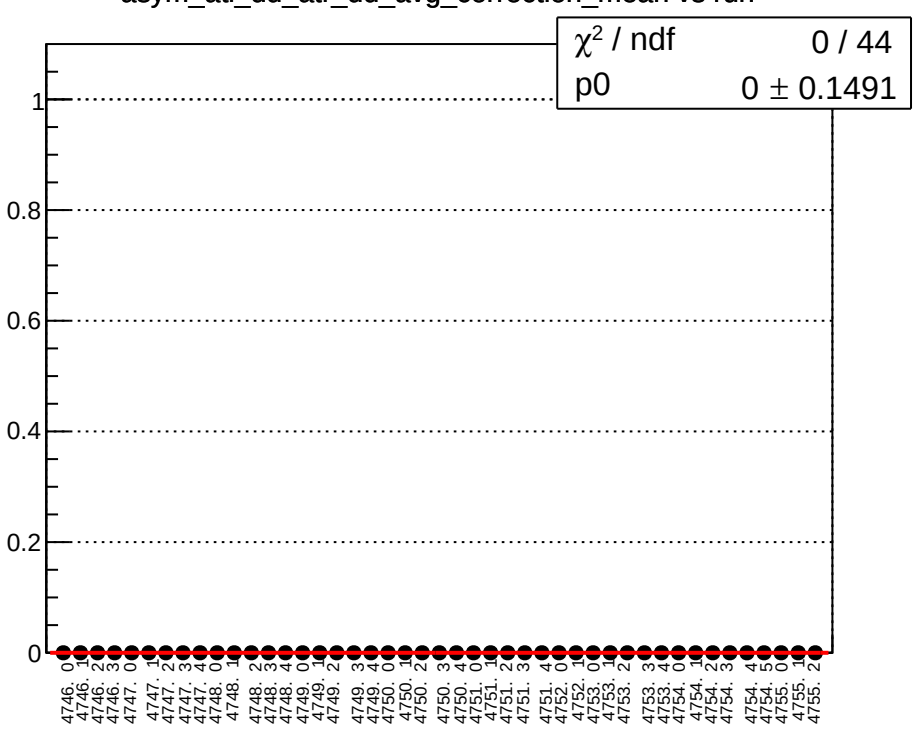
4755. 1
4755. 2


asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
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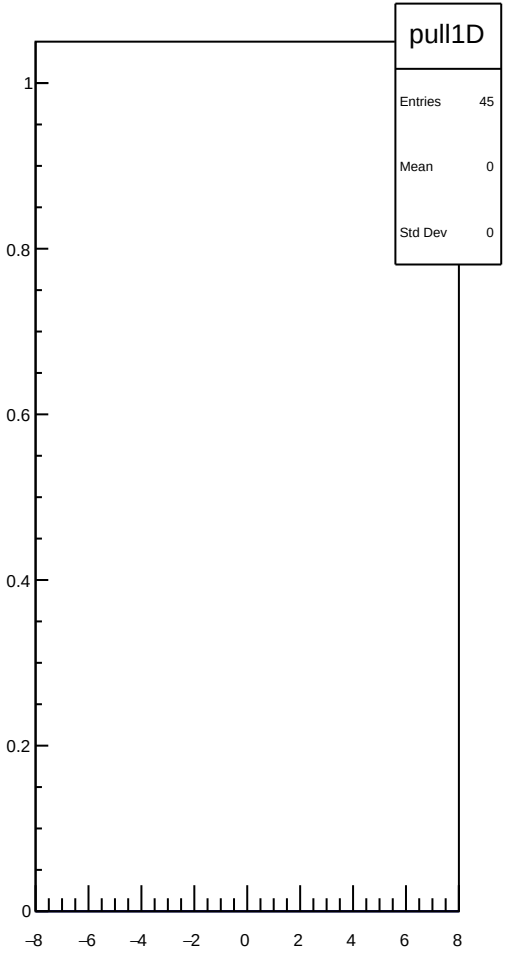
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2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Entries 45
Mean 0
Std Dev 0
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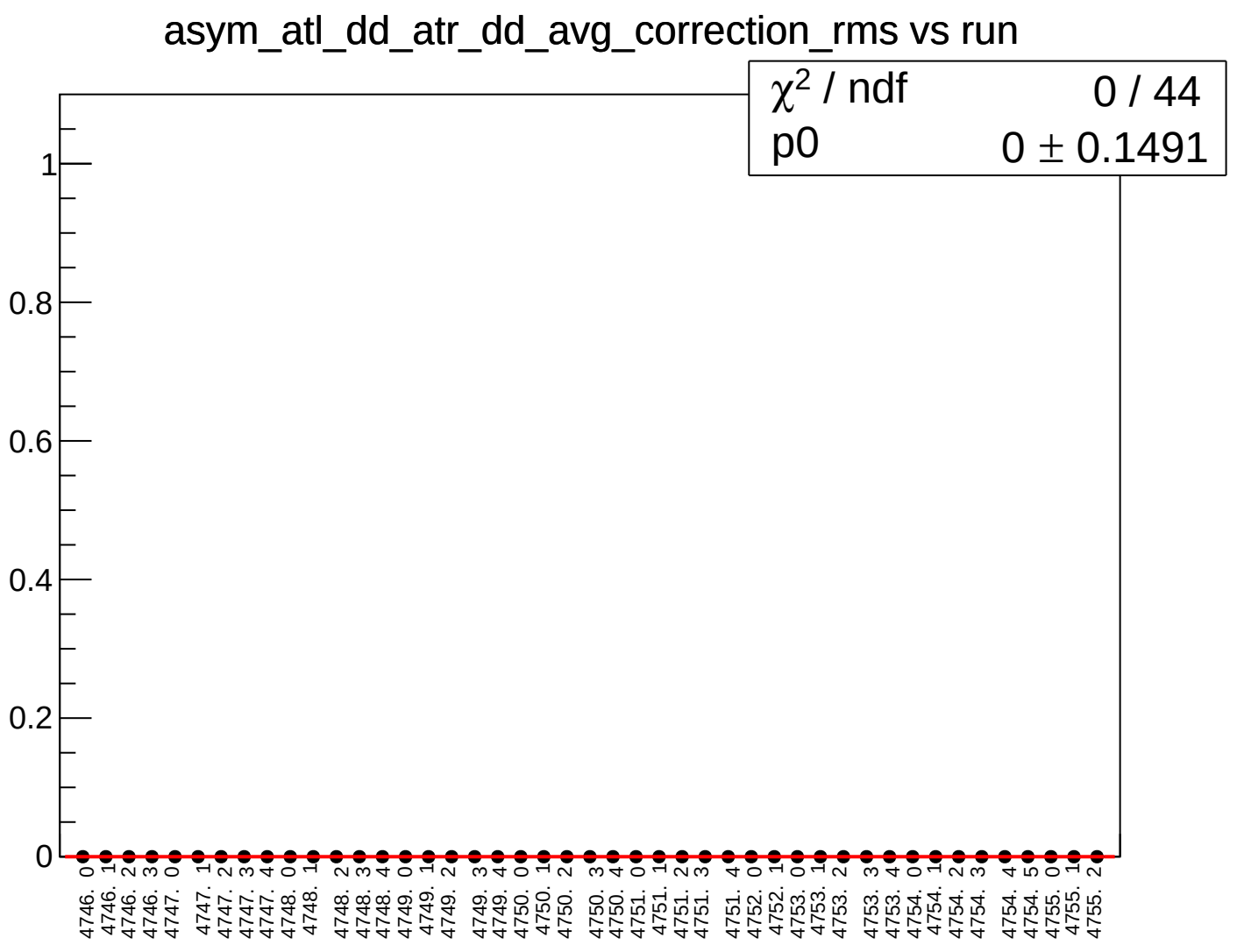
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
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4748. 0
4748. 1
4748. 2
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4749. 0
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4749. 2
4749. 3
4749. 4
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4750. 1
4750. 2
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4750. 4
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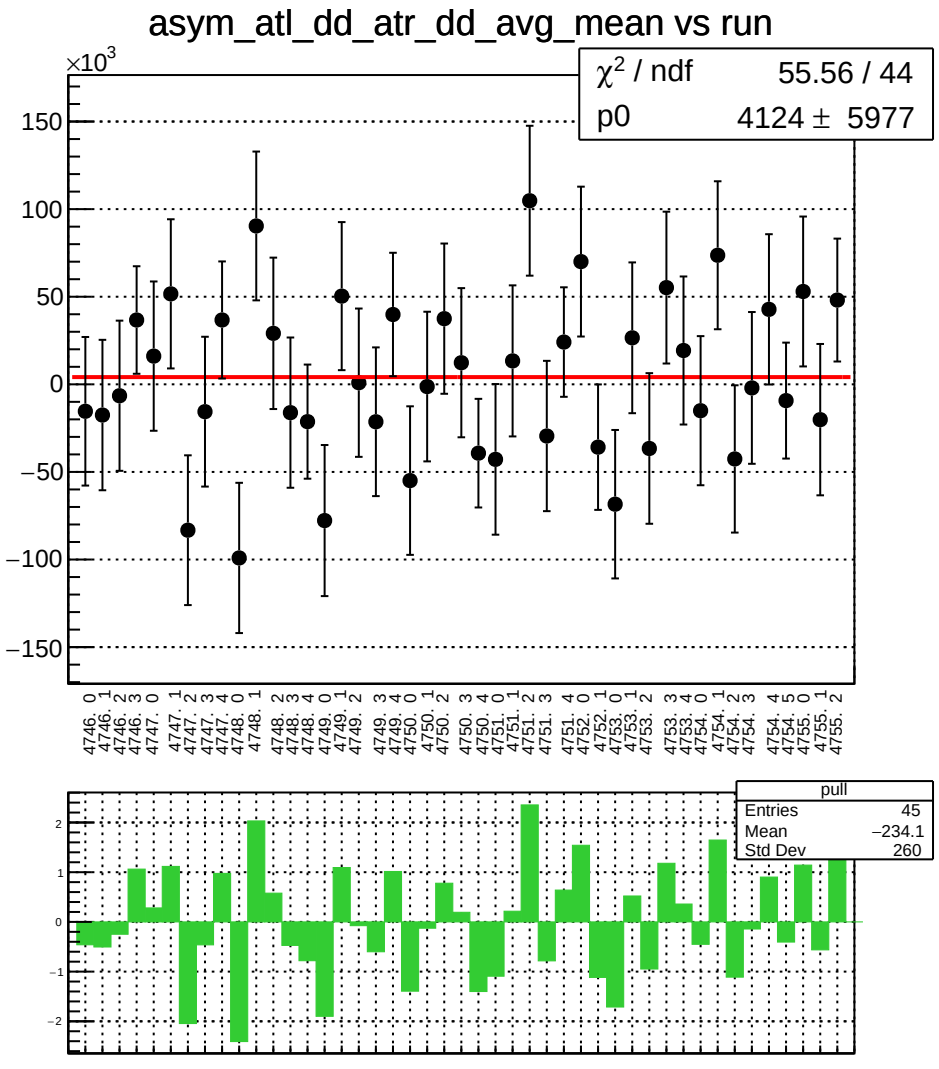
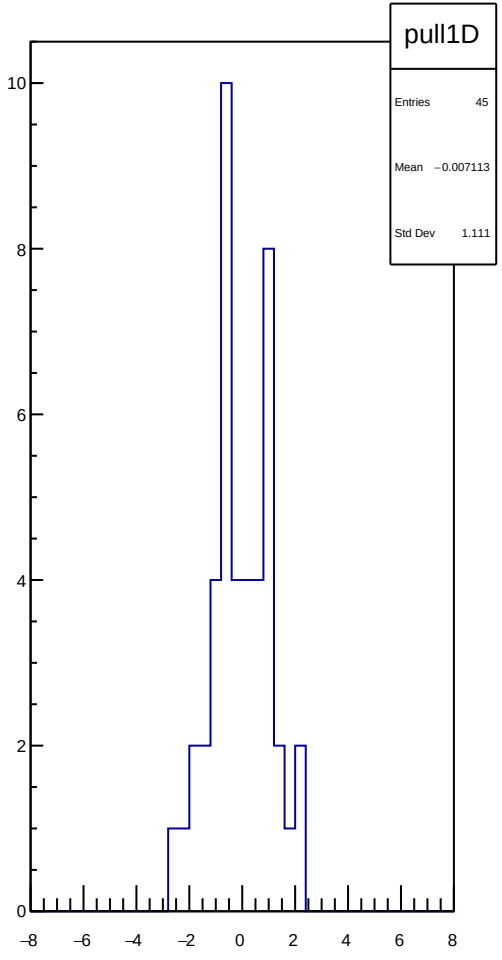
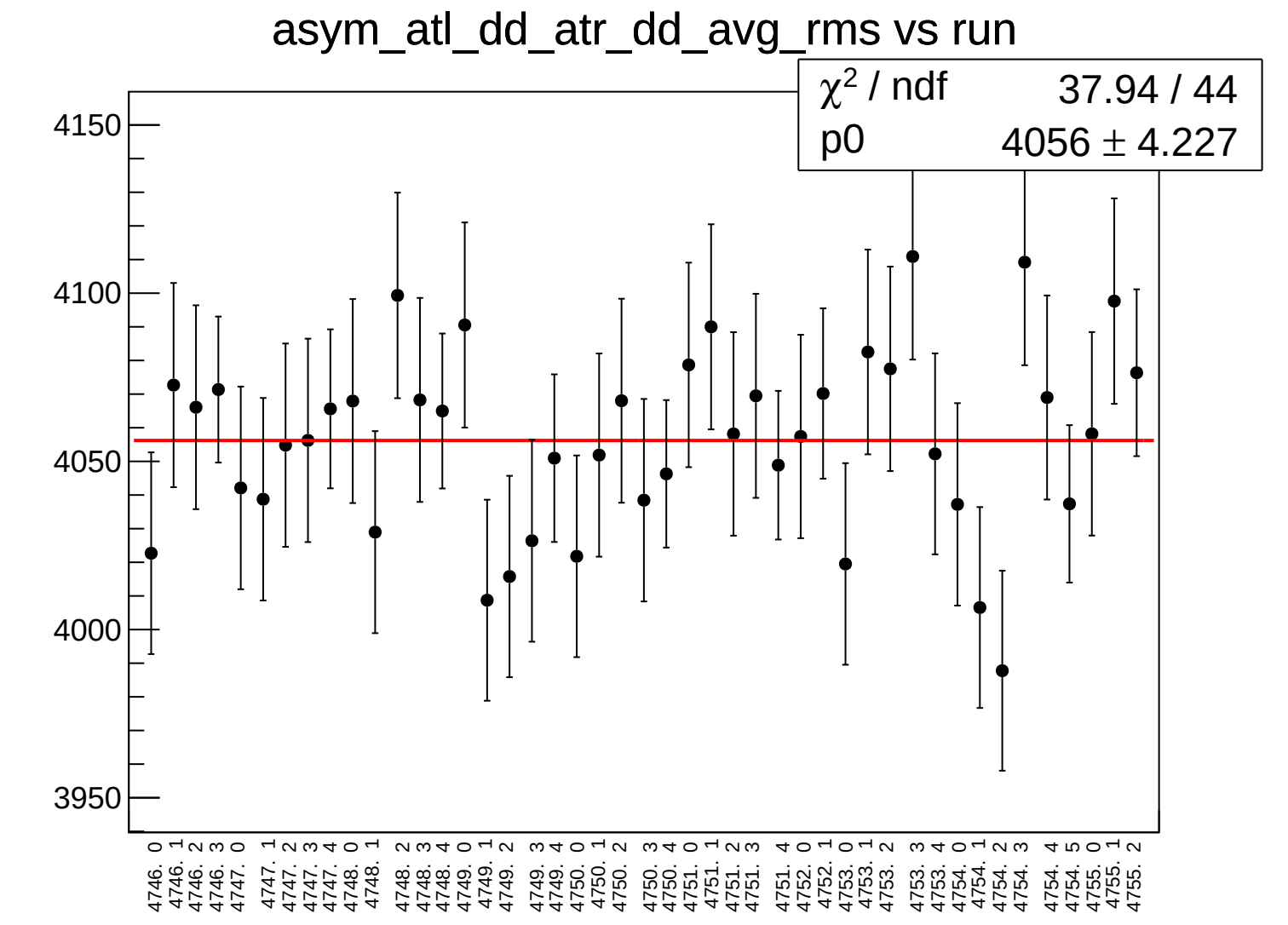
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2


asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 55.56 / 44
p0 4124 ± 5977
150
100
50
0
−50
−100
−150
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −234.1
Std Dev 260
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.007113
Std Dev 1.111
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 37.94 / 44
p0 4056 ± 4.227
4150
4100
4050
4000
3950
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
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4748. 2
4748. 3
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4749. 0
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4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
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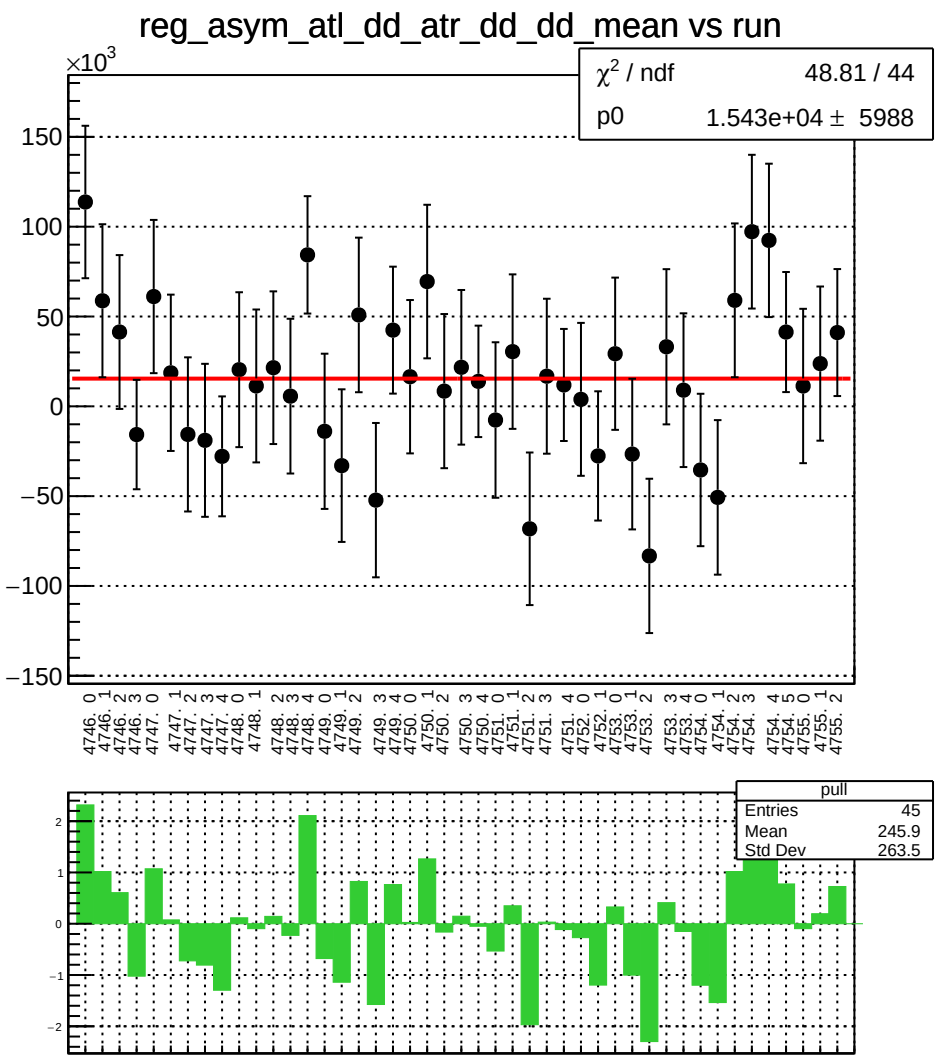
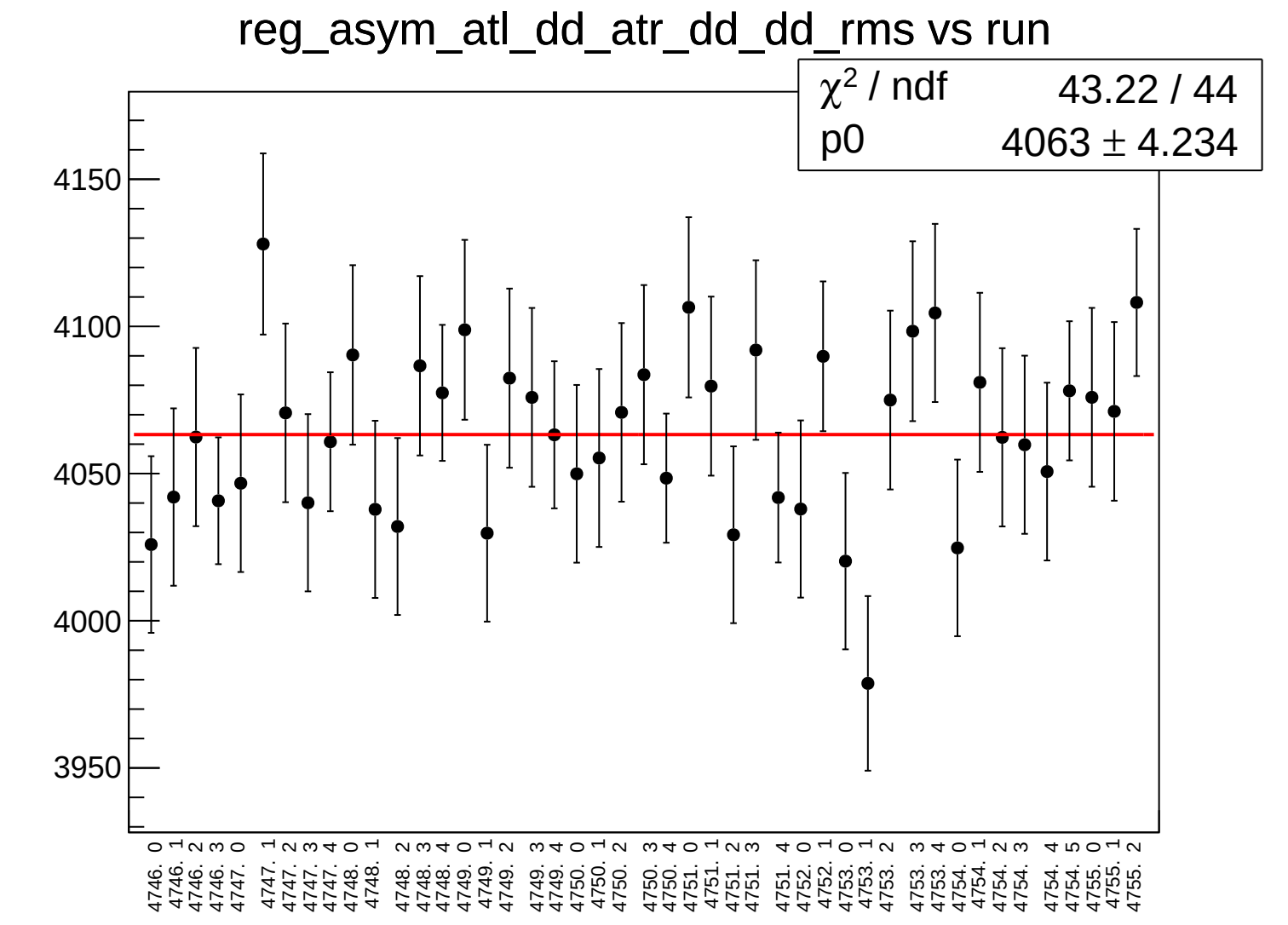
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2


reg_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 48.81 / 44
p0 1.543e+04 ± 5988
150
100
50
0
−50
−100
−150
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 245.9
Std Dev 263.5
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.002644
Std Dev 1.041
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 43.22 / 44
p0 4063 ± 4.234
4150
4100
4050
4000
3950
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
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4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
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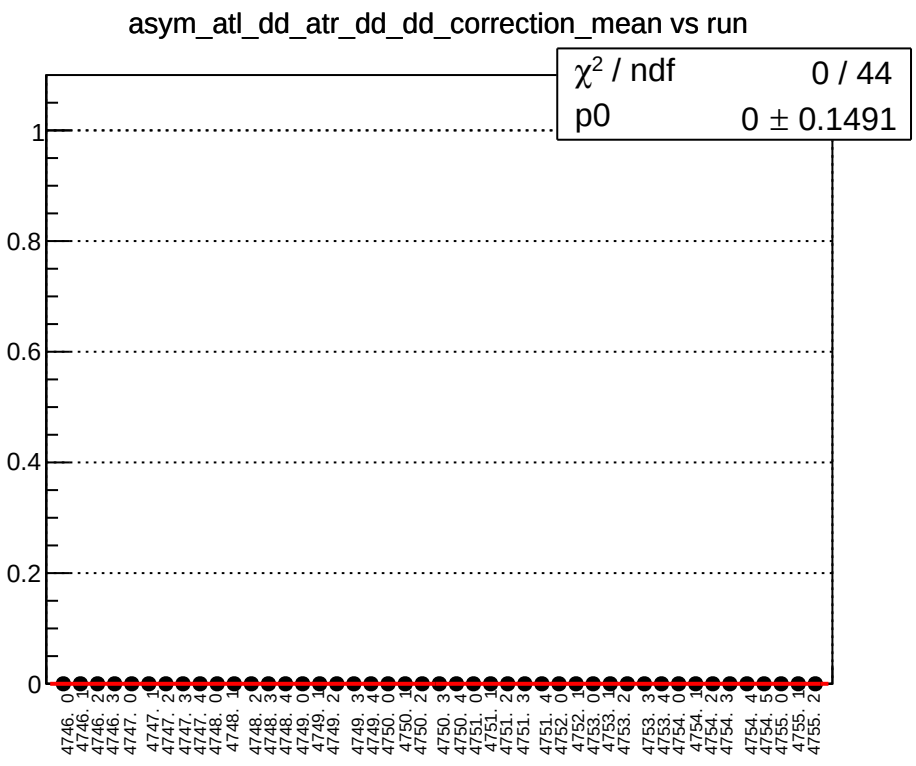
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2


asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
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4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
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4751. 0
4751. 1
4751. 2
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4751. 4
4752. 0
4752. 1
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4753. 2
4753. 3
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4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
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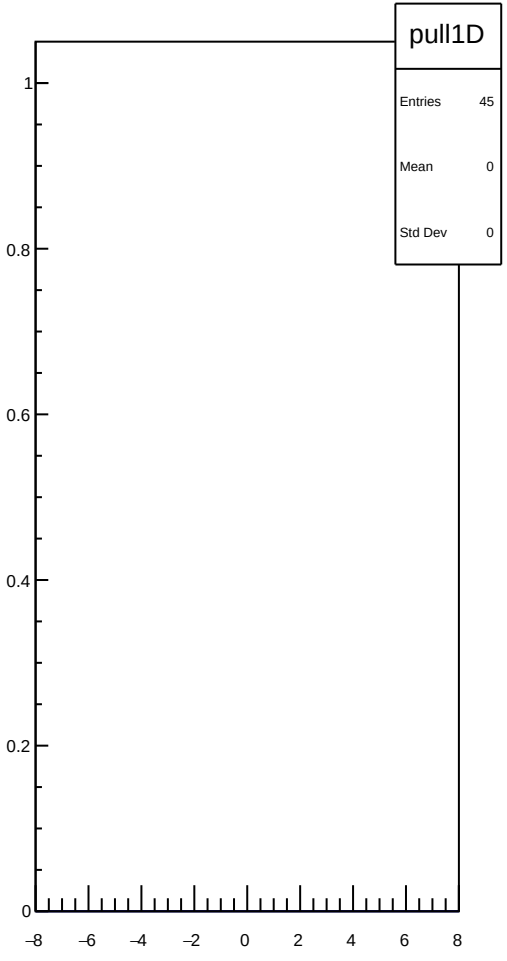
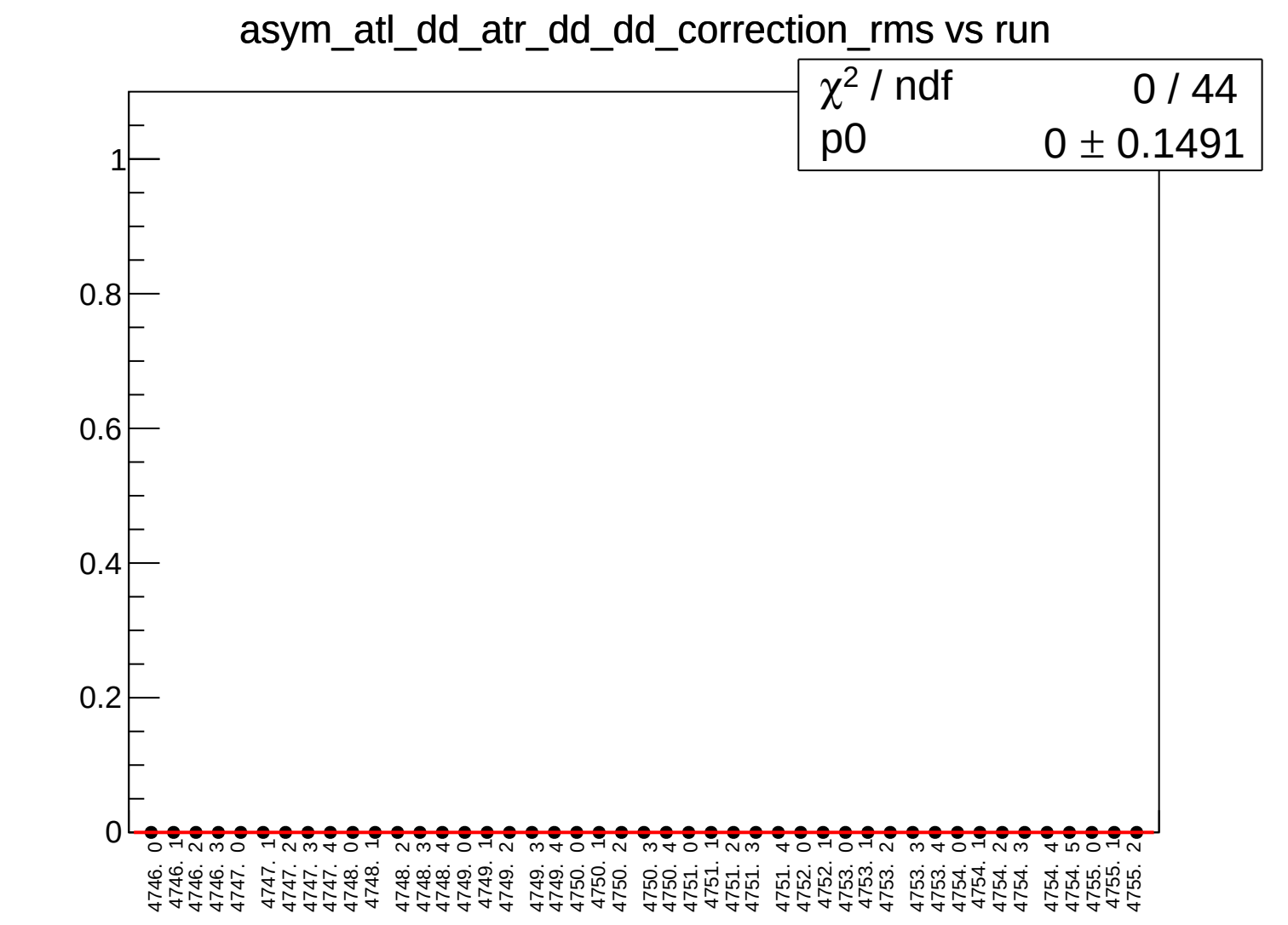
4755. 1
4755. 2


pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


asym_atl_dd_atr_dd_dd_correction_rms vs run
χ2 / ndf 0 / 44
p0 0 ± 0.1491
1
0.8
0.6
0.4
0.2
0
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
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4754. 1
4754. 2
4754. 3
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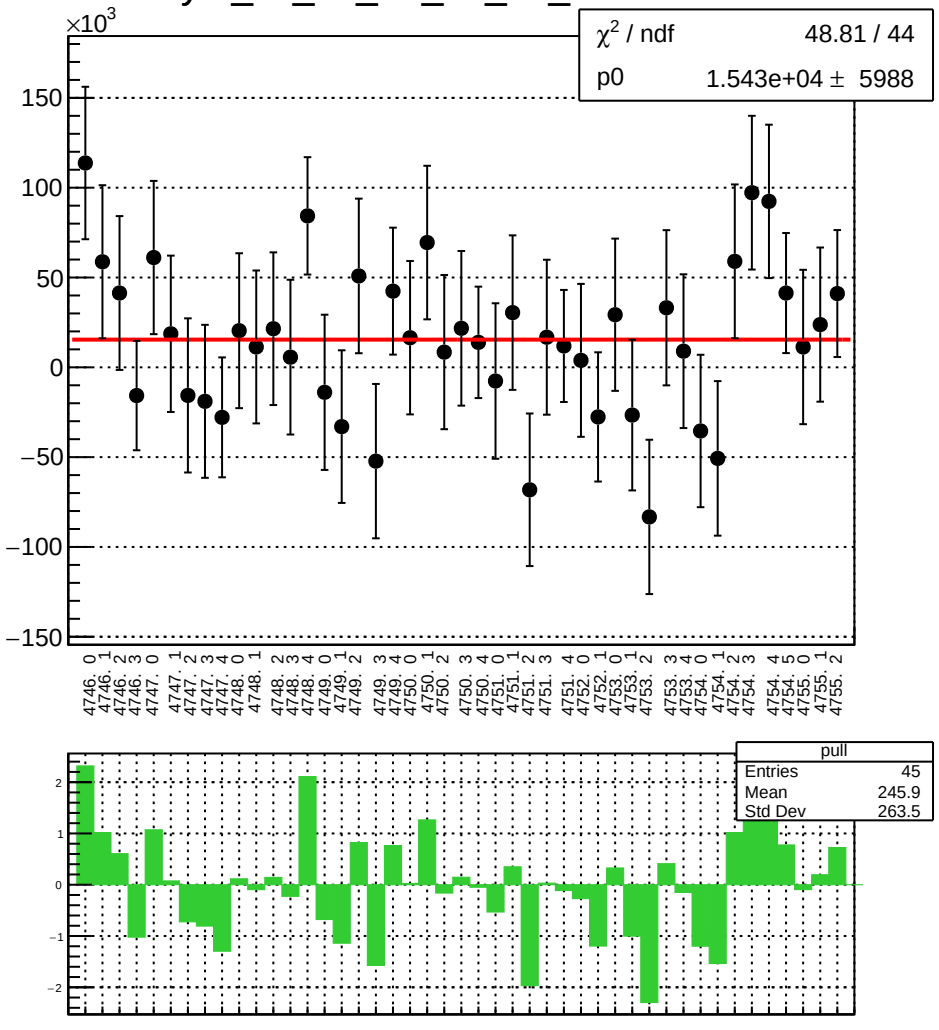
4755. 1
4755. 2


asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 48.81 / 44
p0 1.543e+04 ± 5988
150
100
50
0
−50
−100
−150
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
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4750. 1
4750. 2
4750. 3
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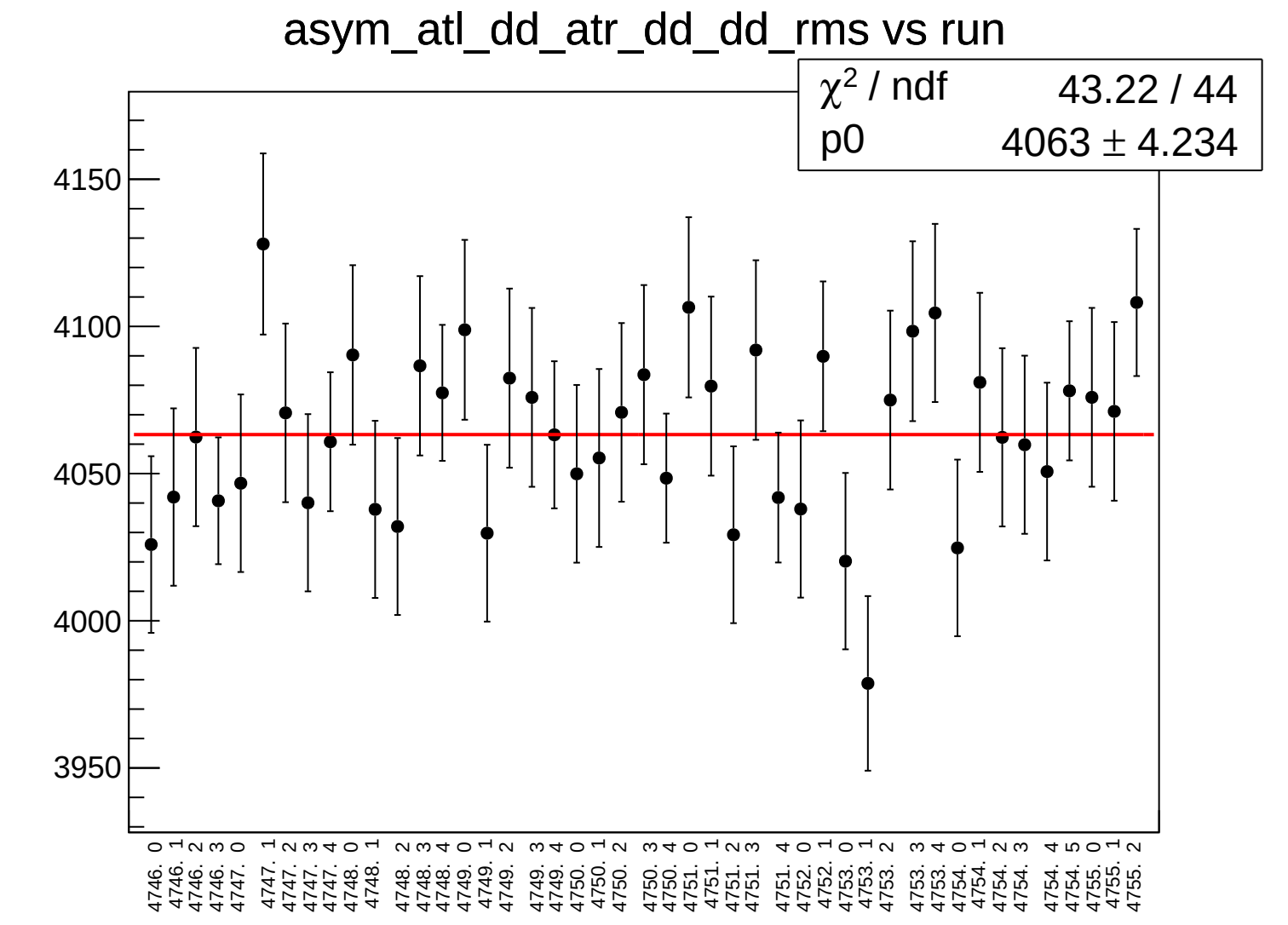
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 245.9
Std Dev 263.5
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.002644
Std Dev 1.041
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 43.22 / 44
p0 4063 ± 4.234
4150
4100
4050
4000
3950
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
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4749. 0
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4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
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4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
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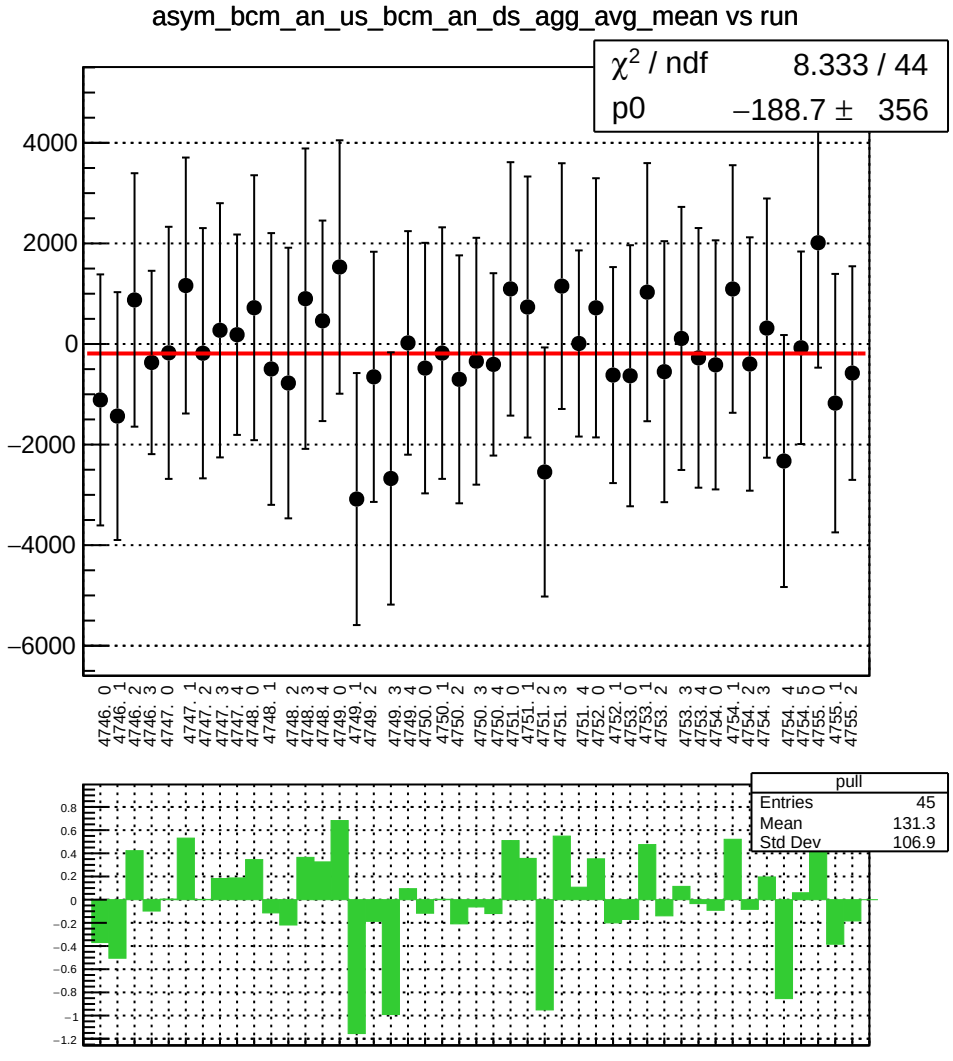
4755. 1
4755. 2


asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.333 / 44
p0 −188.7 ± 356
4000
2000
0
−2000
−4000
−6000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
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4751. 2
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4752. 0
4752. 1
4753. 0
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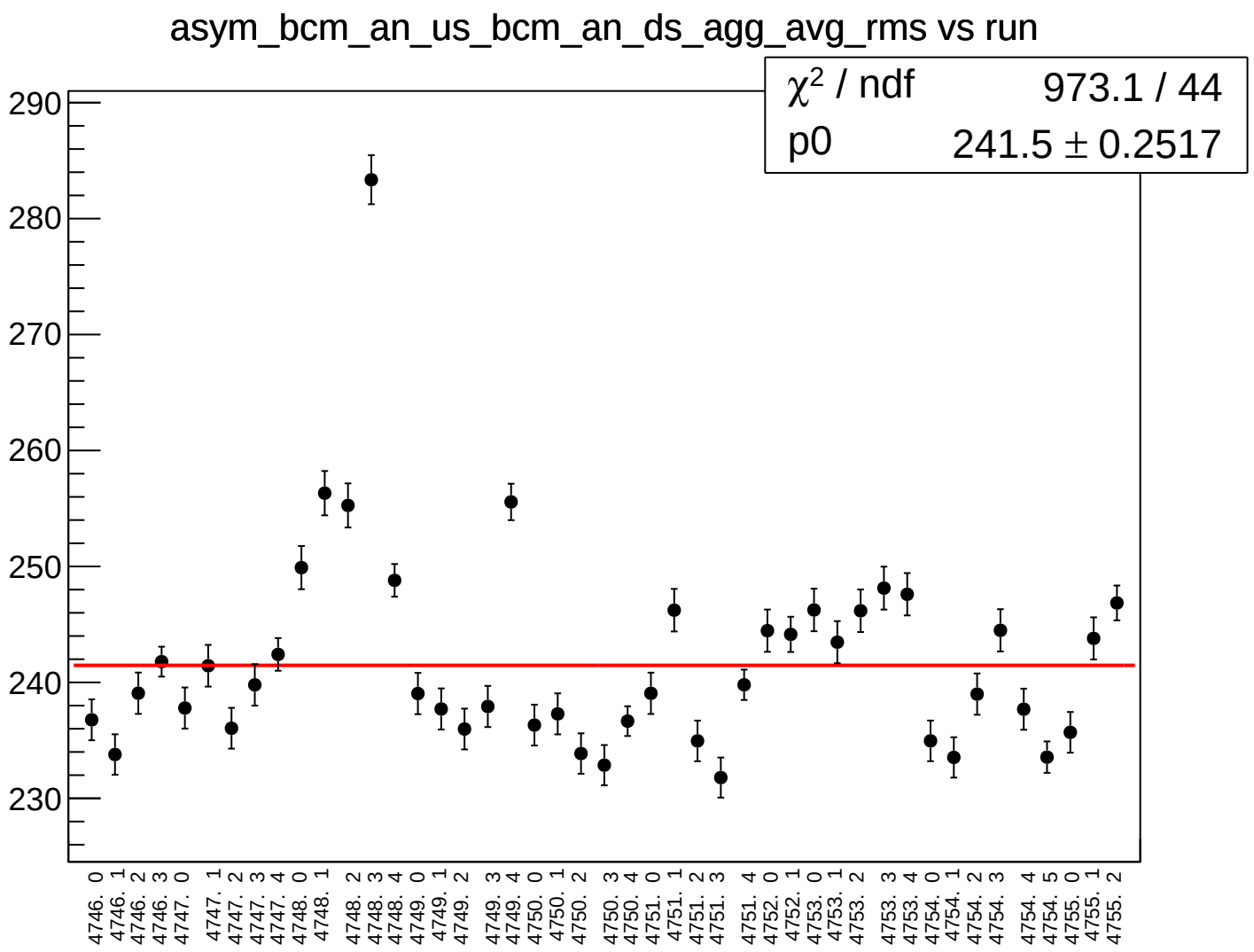
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 131.3
Std Dev 106.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 45
Mean 0.0008537
Std Dev 0.4303
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 973.1 / 44
p0 241.5 ± 0.2517
290
280
270
260
250
240
230
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
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4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
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4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
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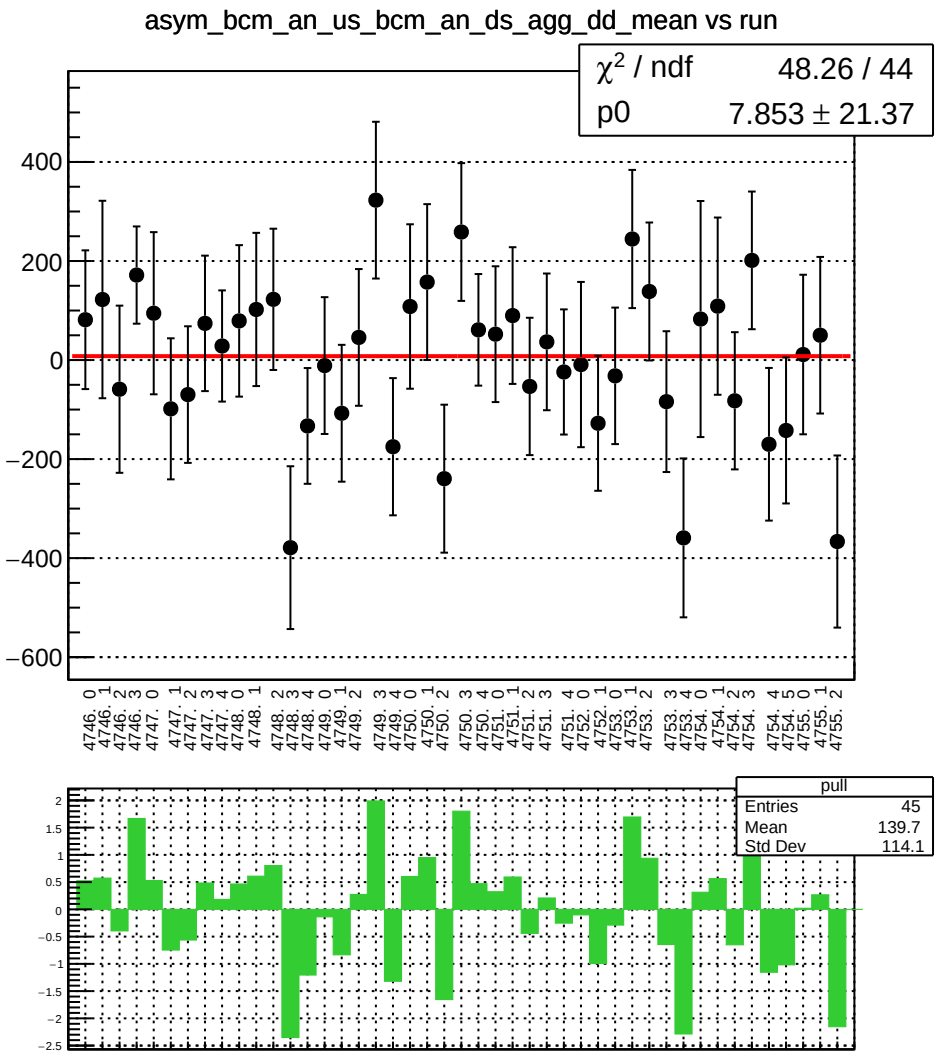
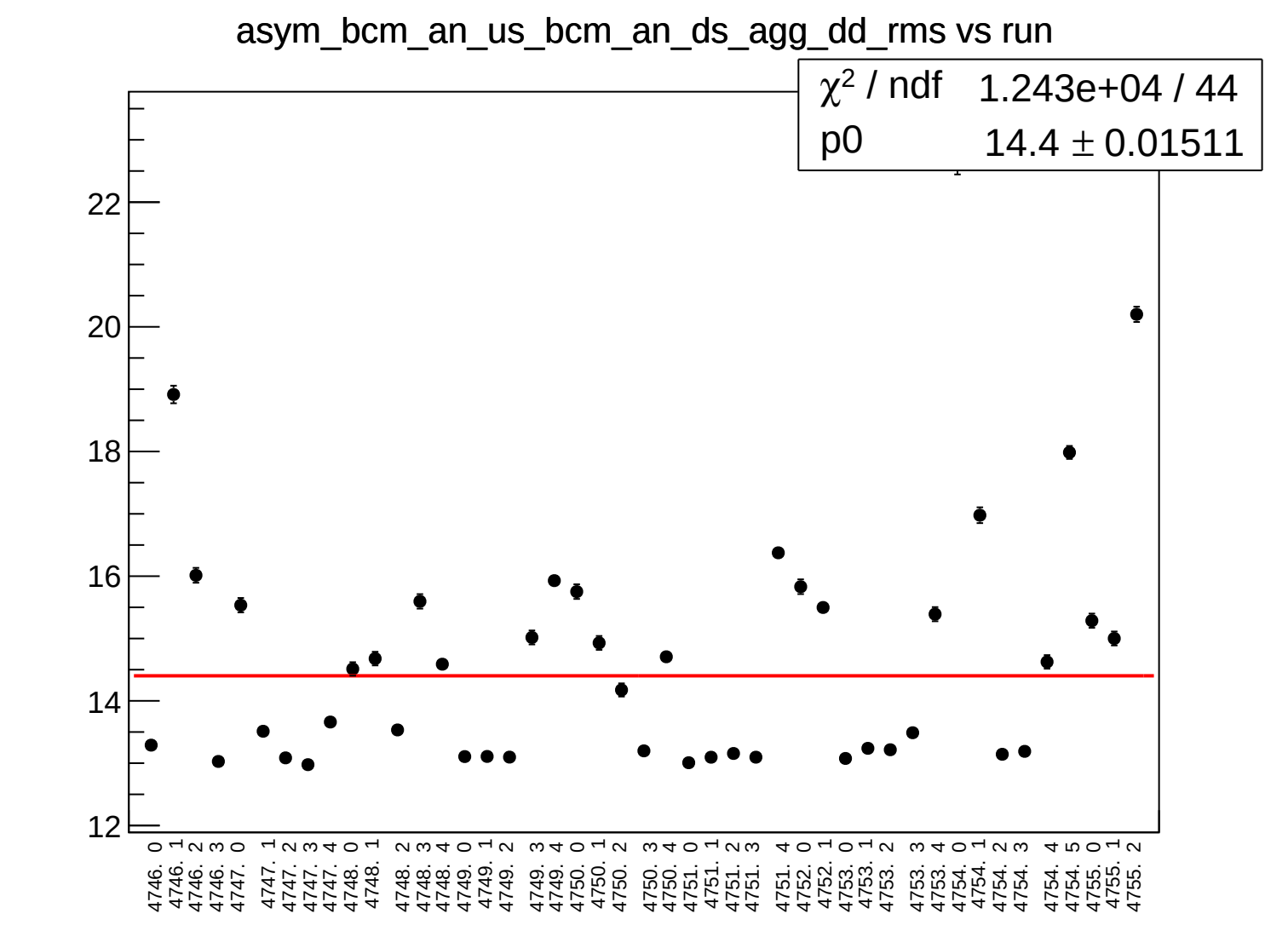
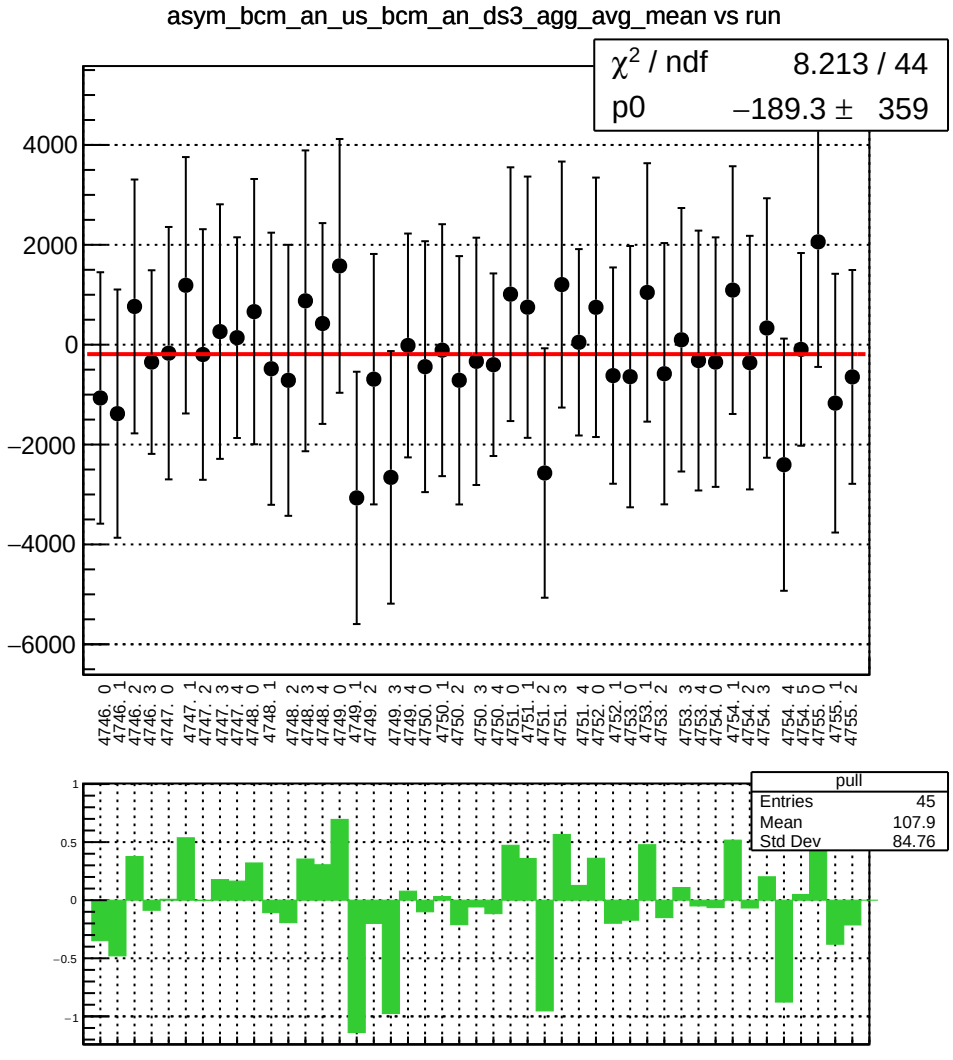
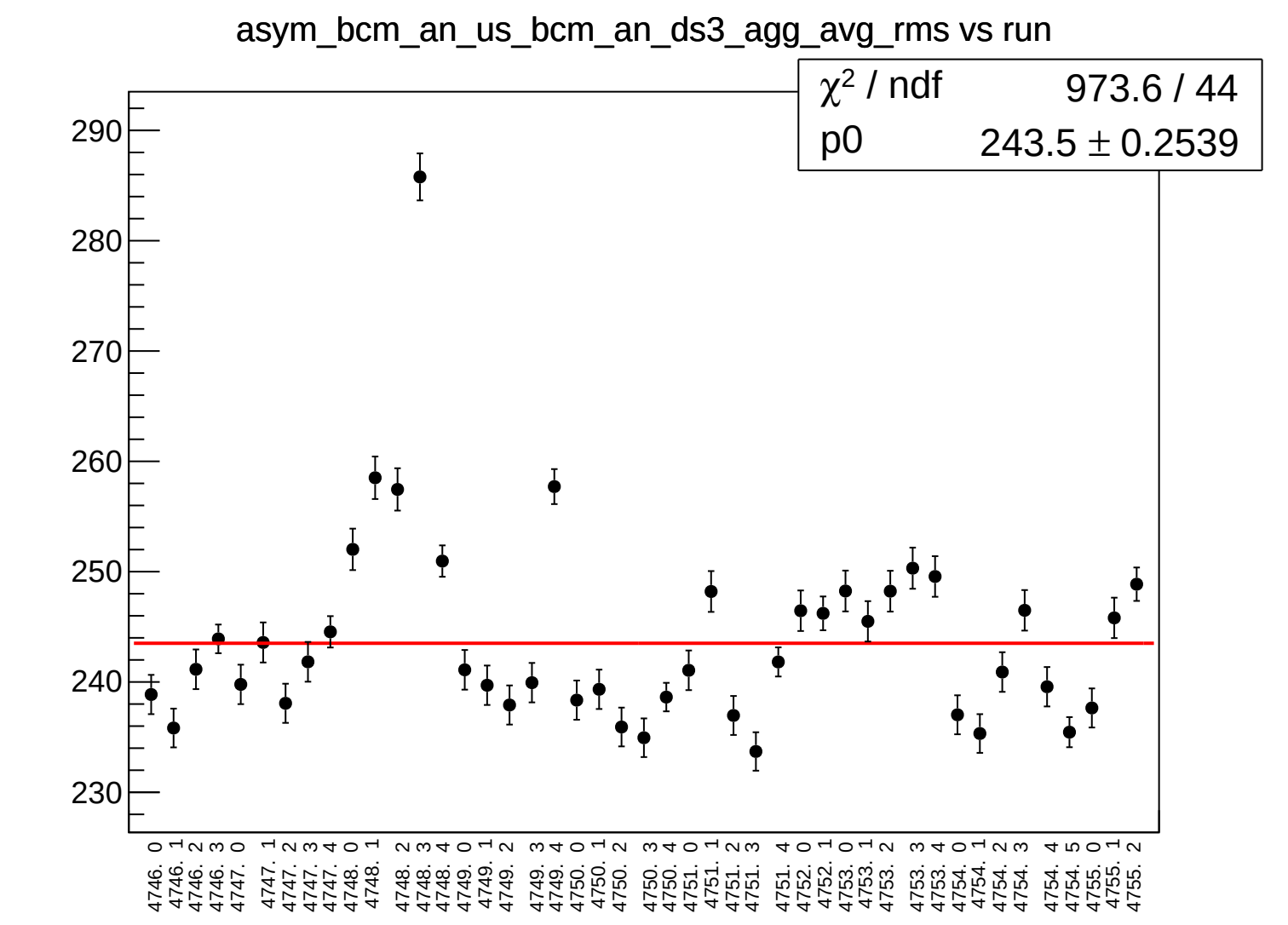
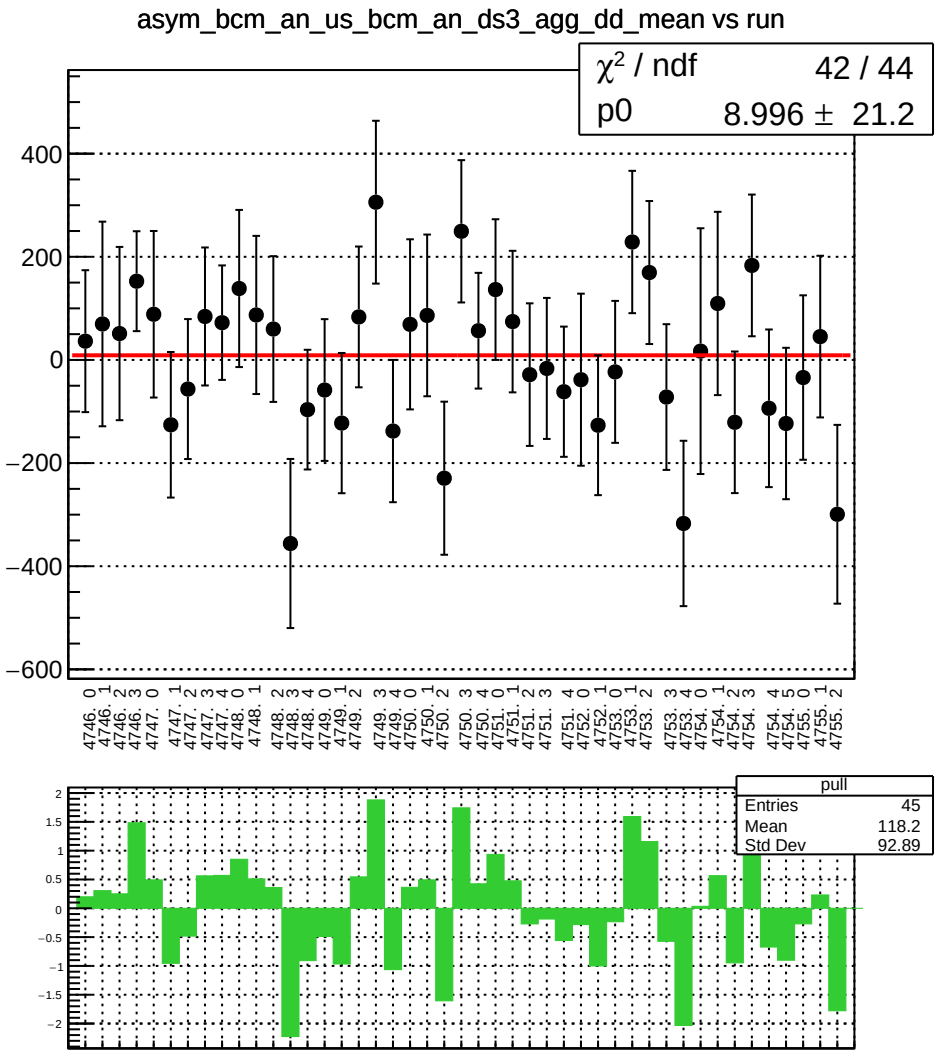
4755. 1
4755. 2

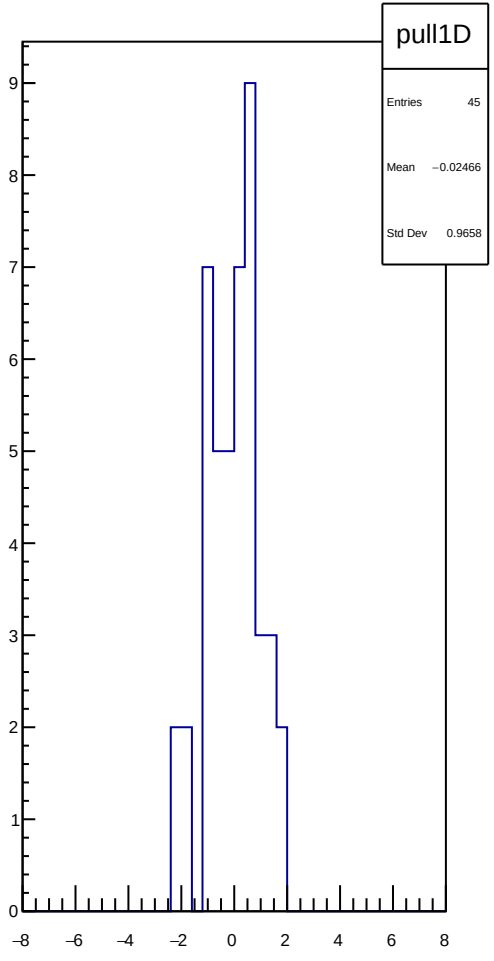

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 48.26 / 44
p0 7.853 ± 21.37
400
200
0
−200
−400
−600
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 139.7
Std Dev 114.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.02095
Std Dev 1.035
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

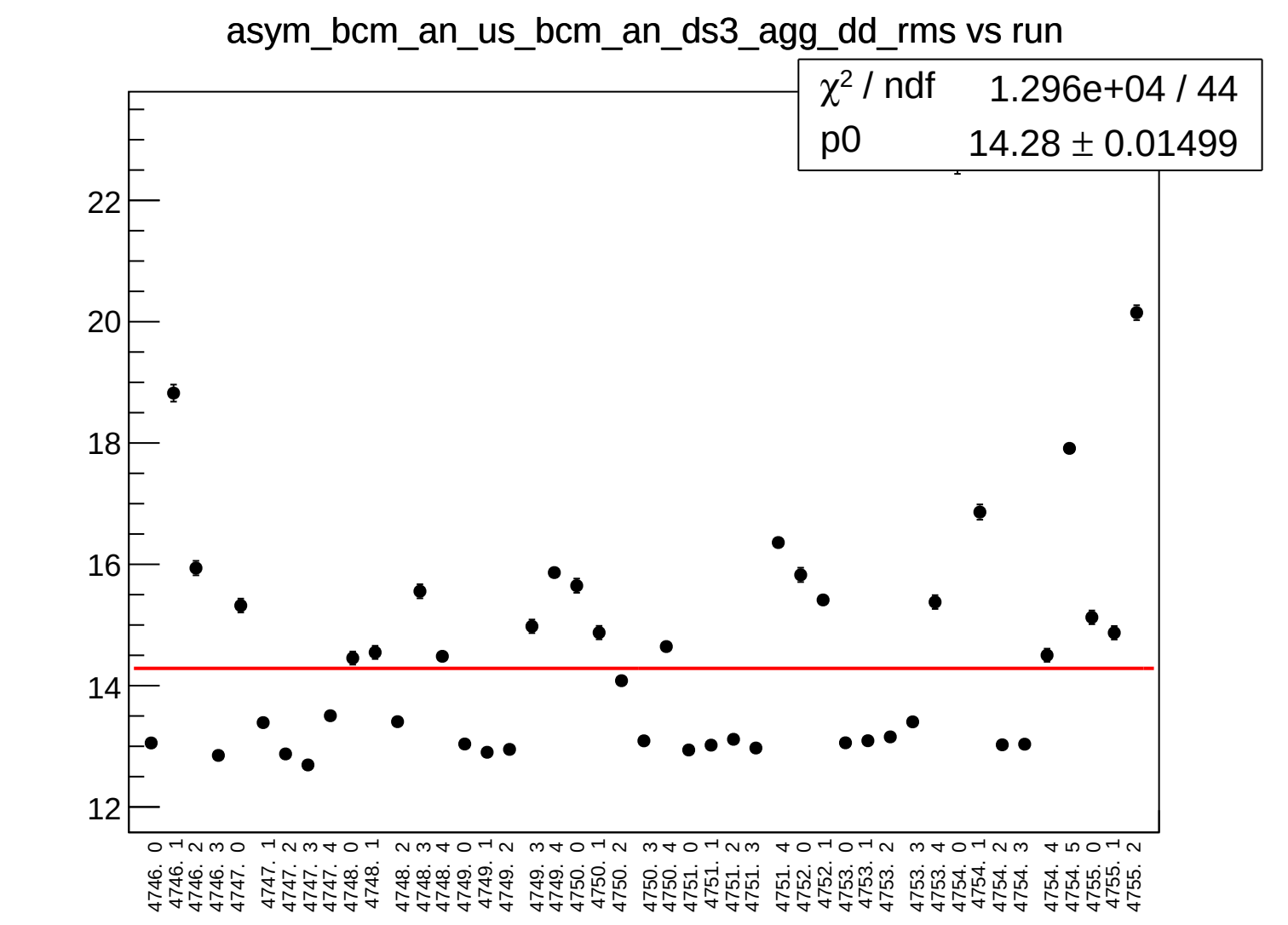

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.243e+04 / 44
p0 14.4 ± 0.01511
22
20
18
16
14
12
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

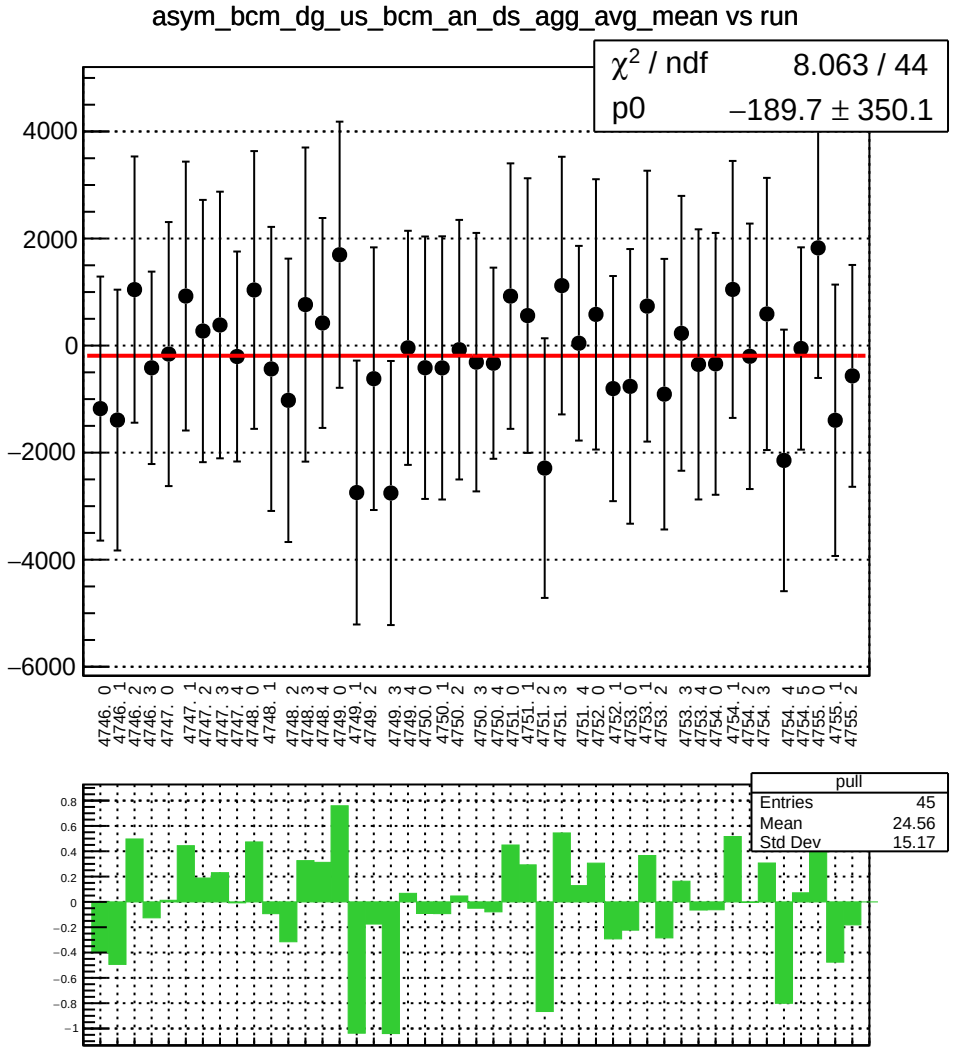

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 8.213 / 44
p0 −189.3 ± 359
4000
2000
0
−2000
−4000
−6000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 107.9
Std Dev 84.76
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean 0.0009918
Std Dev 0.4272
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

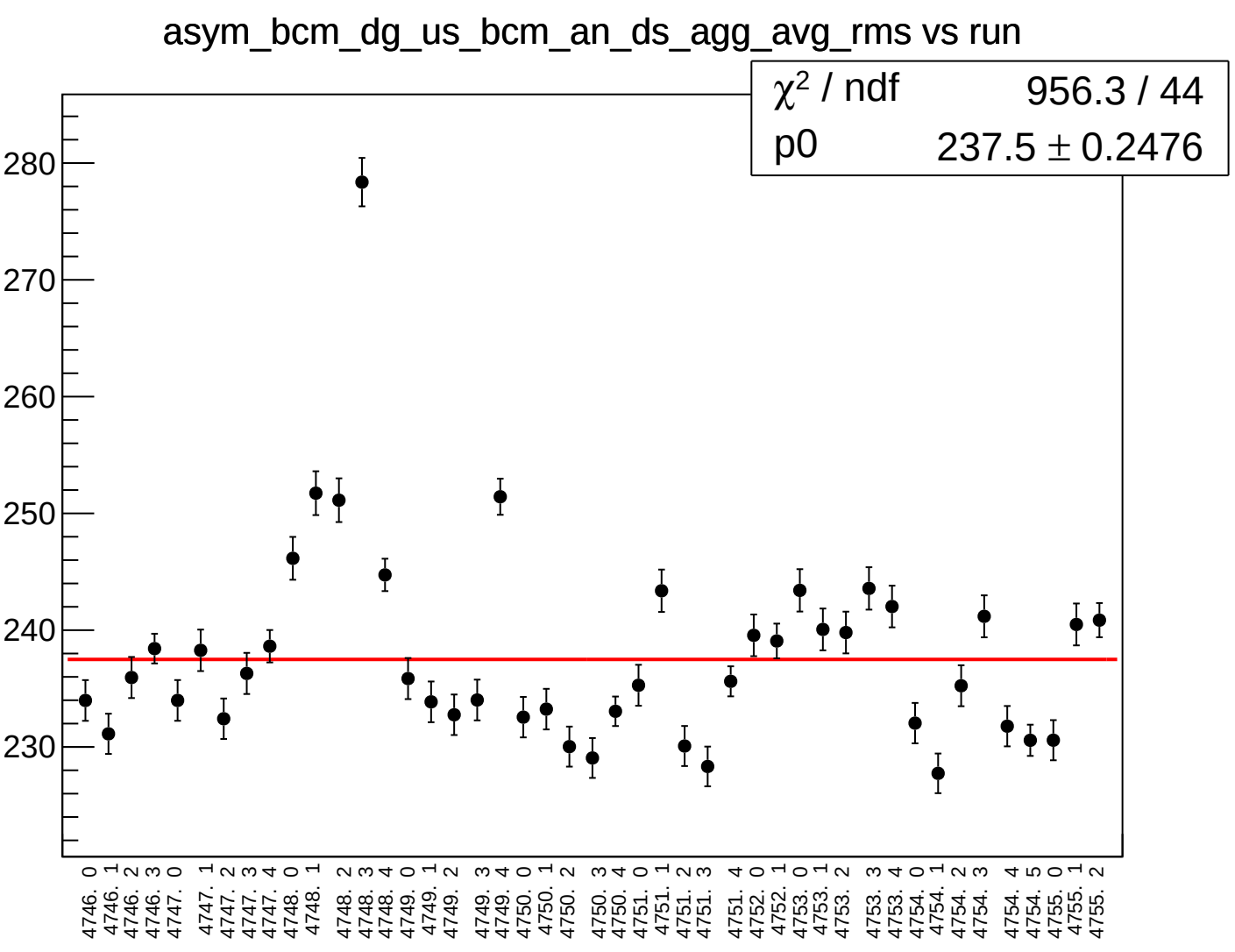

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 973.6 / 44
p0 243.5 ± 0.2539
290
280
270
260
250
240
230
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

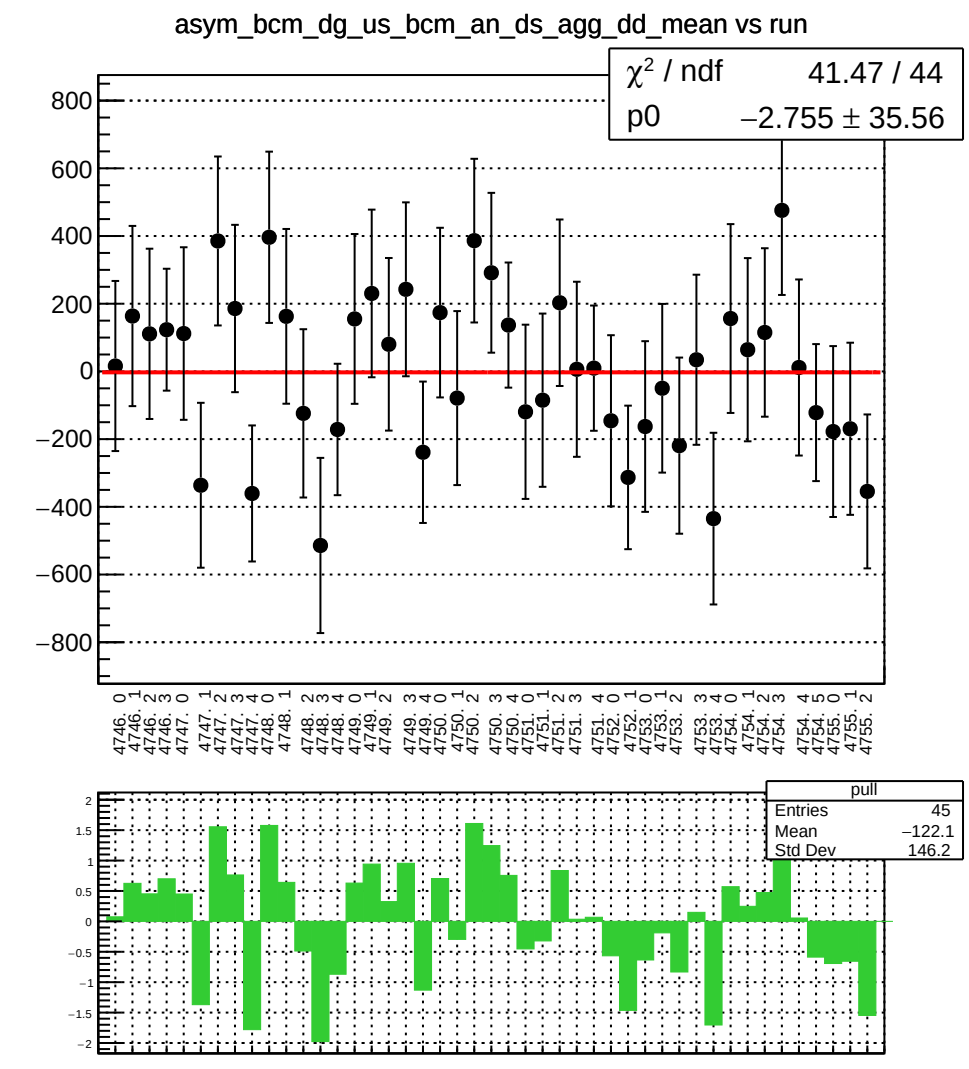

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 42 / 44
p0 8.996 ± 21.2
pull
Entries 45
Mean 118.2
Std Dev 92.89

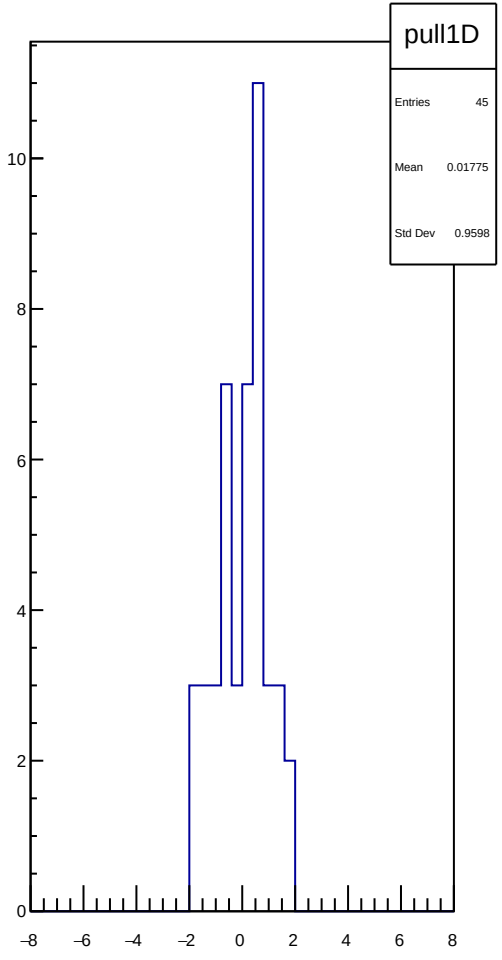

pull1D
Entries 45
Mean −0.02466
Std Dev 0.9658

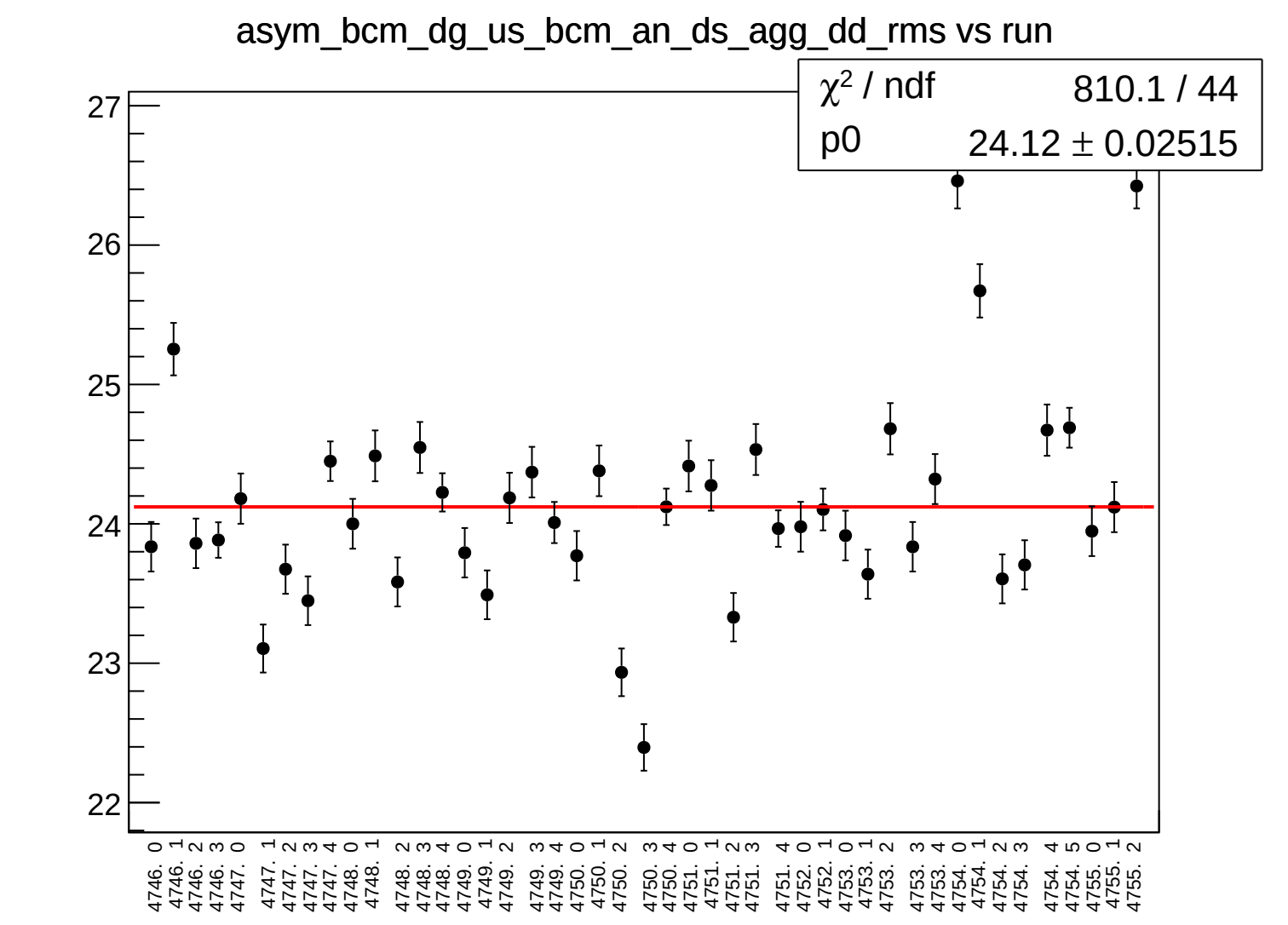

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.296e+04 / 44
p0 14.28 ± 0.01499
22
20
18
16
14
12
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

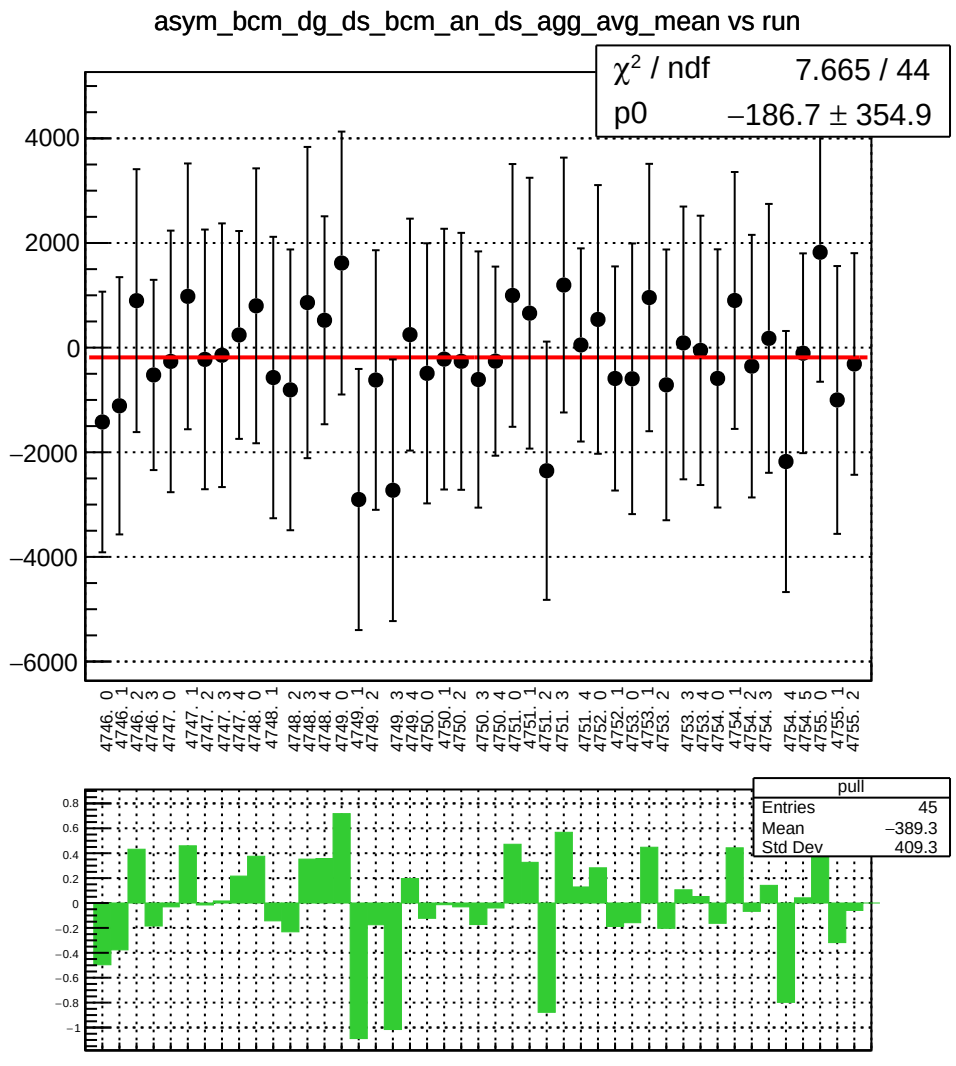

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.063 / 44
p0 −189.7 ± 350.1
4000
2000
0
−2000
−4000
−6000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 24.56
Std Dev 15.17
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean 0.001789
Std Dev 0.4233
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

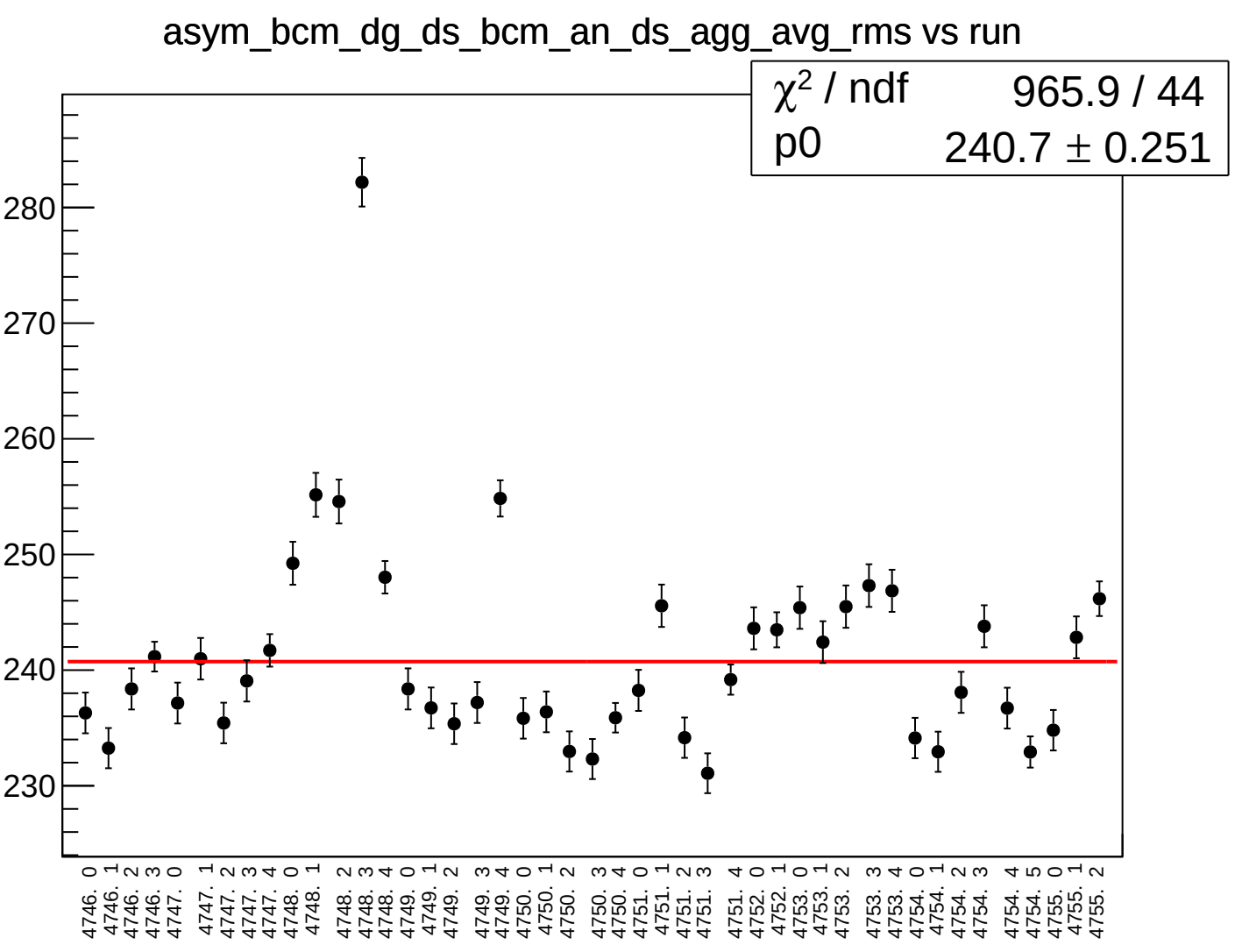

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 956.3 / 44
p0 237.5 ± 0.2476
280
270
260
250
240
230
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2


asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 41.47 / 44
p0 −2.755 ± 35.56
pull
Entries 45
Mean −122.1
Std Dev 146.2

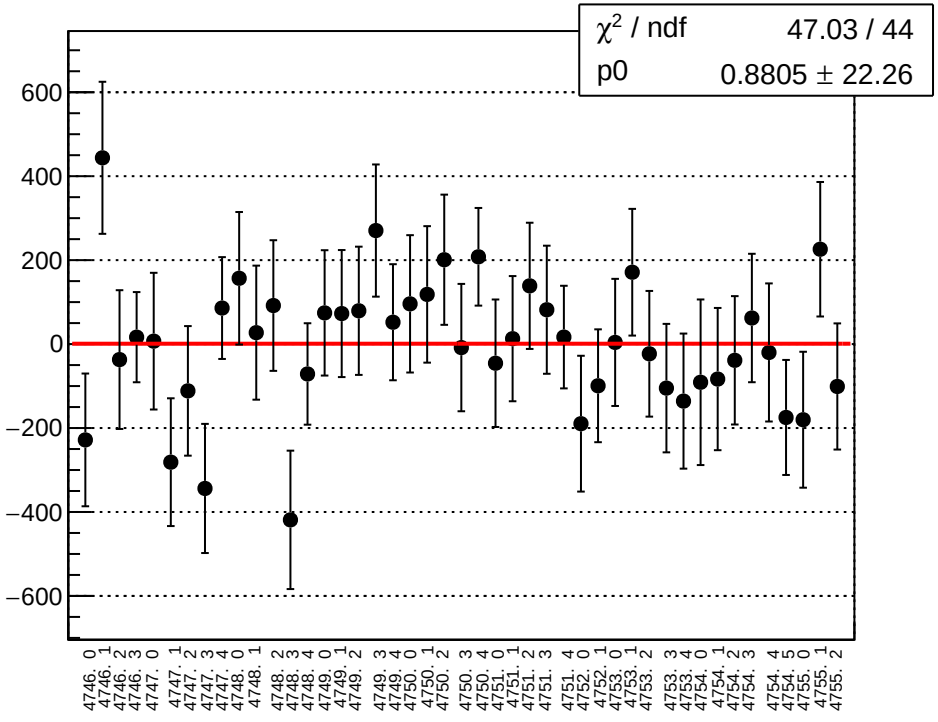

pull1D
Entries 45
Mean 0.01775
Std Dev 0.9598

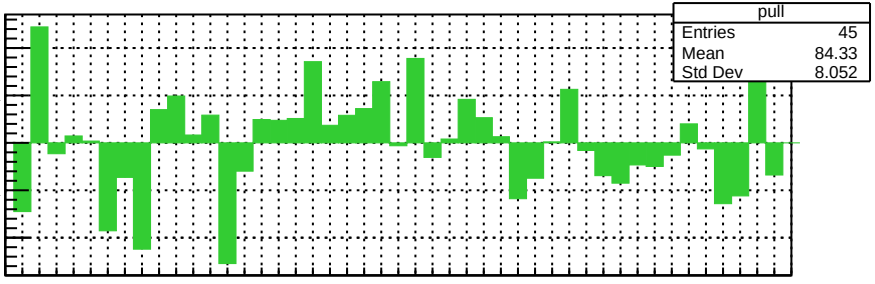

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 810.1 / 44
p0 24.12 ± 0.02515
27
26
25
24
23
22
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

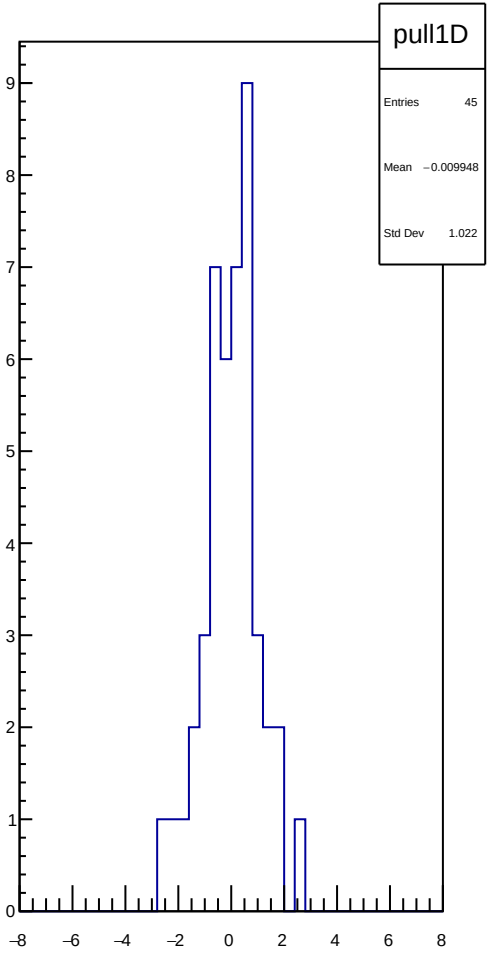

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.665 / 44
p0 −186.7 ± 354.9
4000
2000
0
−2000
−4000
−6000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −389.3
Std Dev 409.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean −0.0005028
Std Dev 0.4127
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

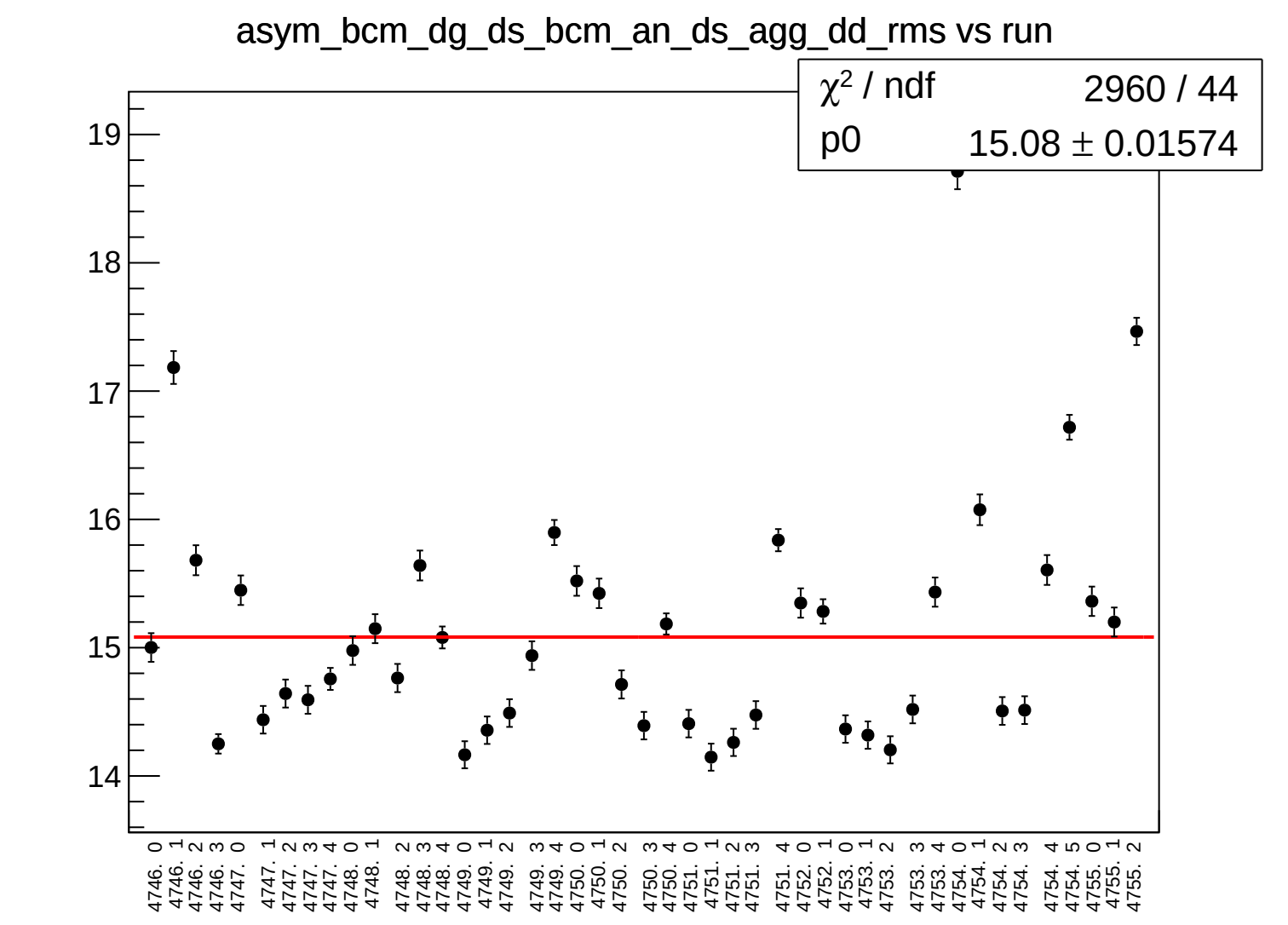

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 965.9 / 44
p0 240.7 ± 0.251
280
270
260
250
240
230
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run








asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2960 / 44
p0 15.08 ± 0.01574
19
18
17
16
15
14
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
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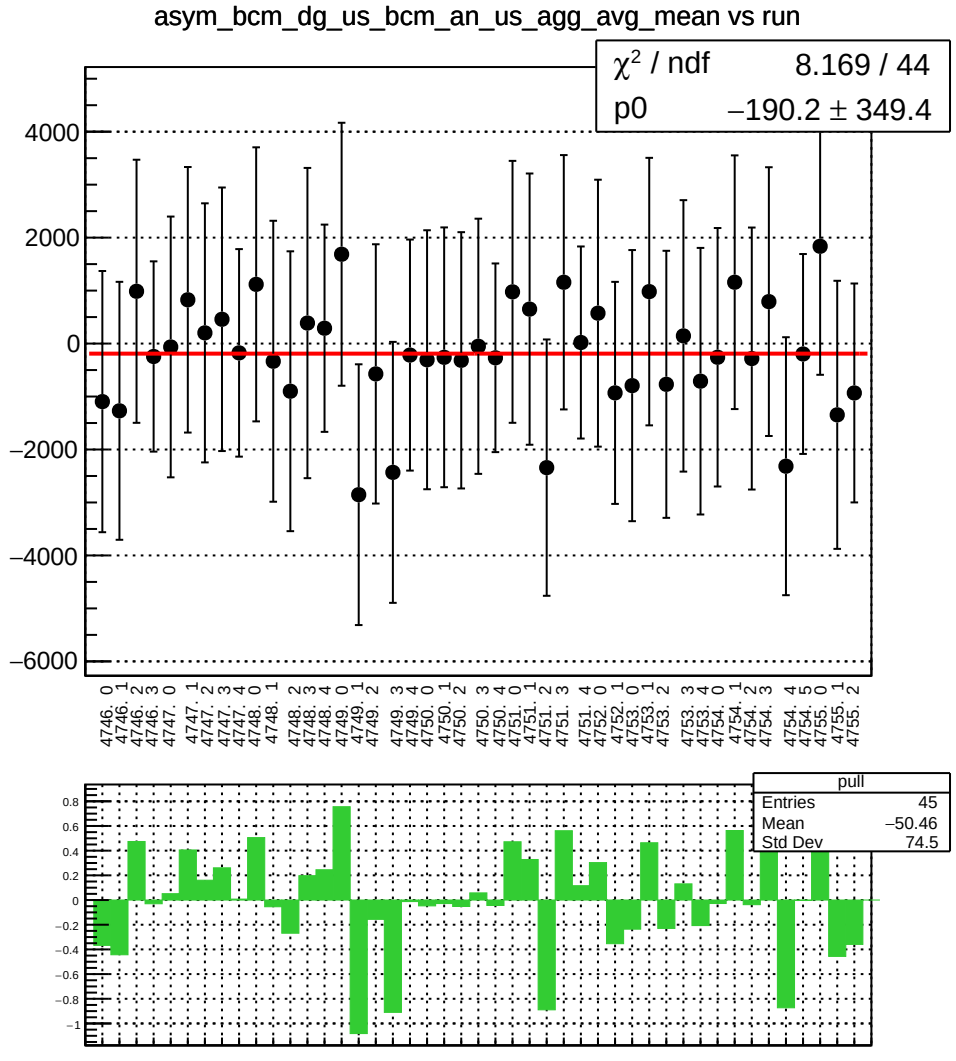
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2


asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 8.169 / 44
p0 −190.2 ± 349.4
4000
2000
0
−2000
−4000
−6000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
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4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
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4750. 1
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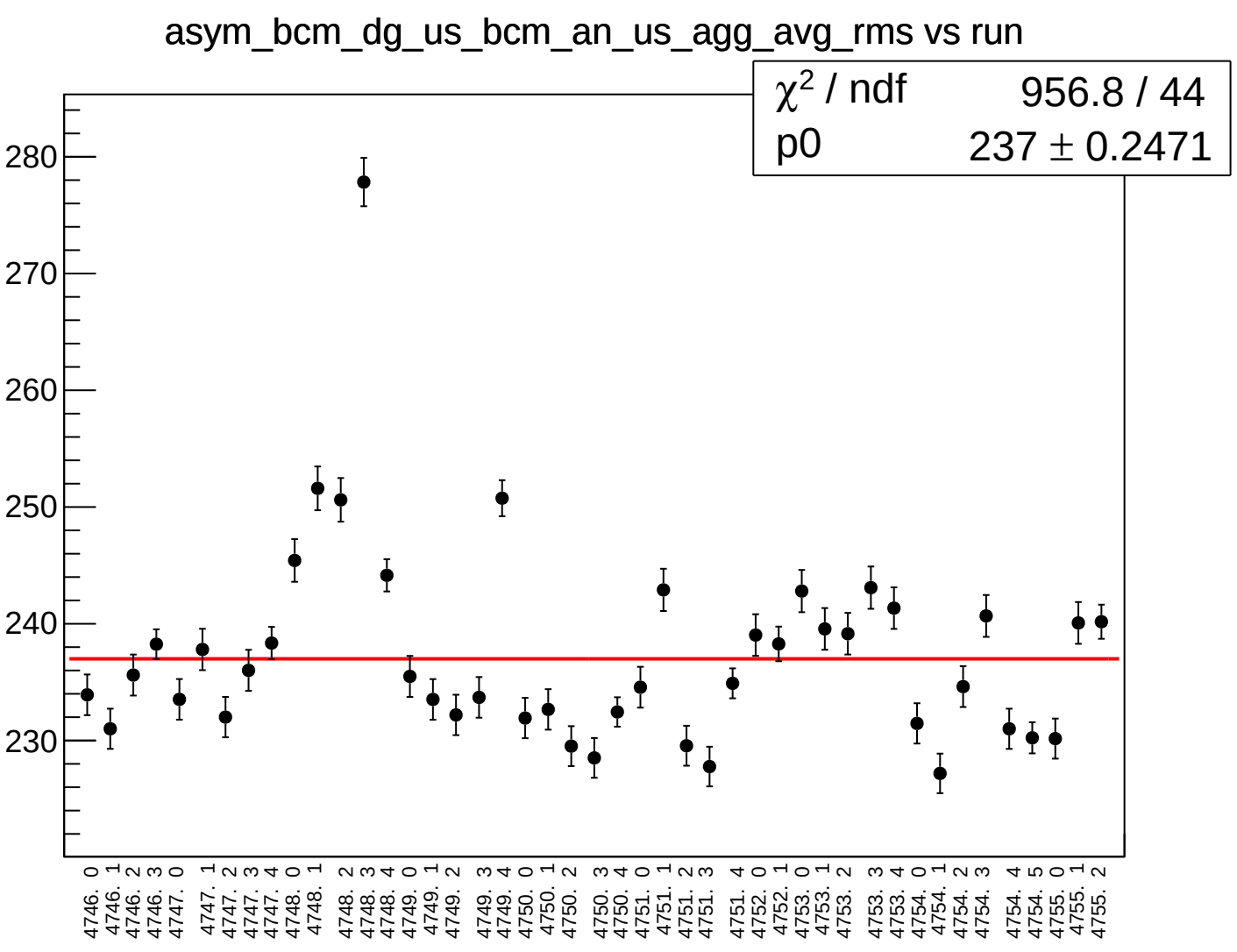
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −50.46
Std Dev 74.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean 0.002523
Std Dev 0.4261
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 956.8 / 44
p0 237 ± 0.2471
280
270
260
250
240
230
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
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4749. 0
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4749. 2
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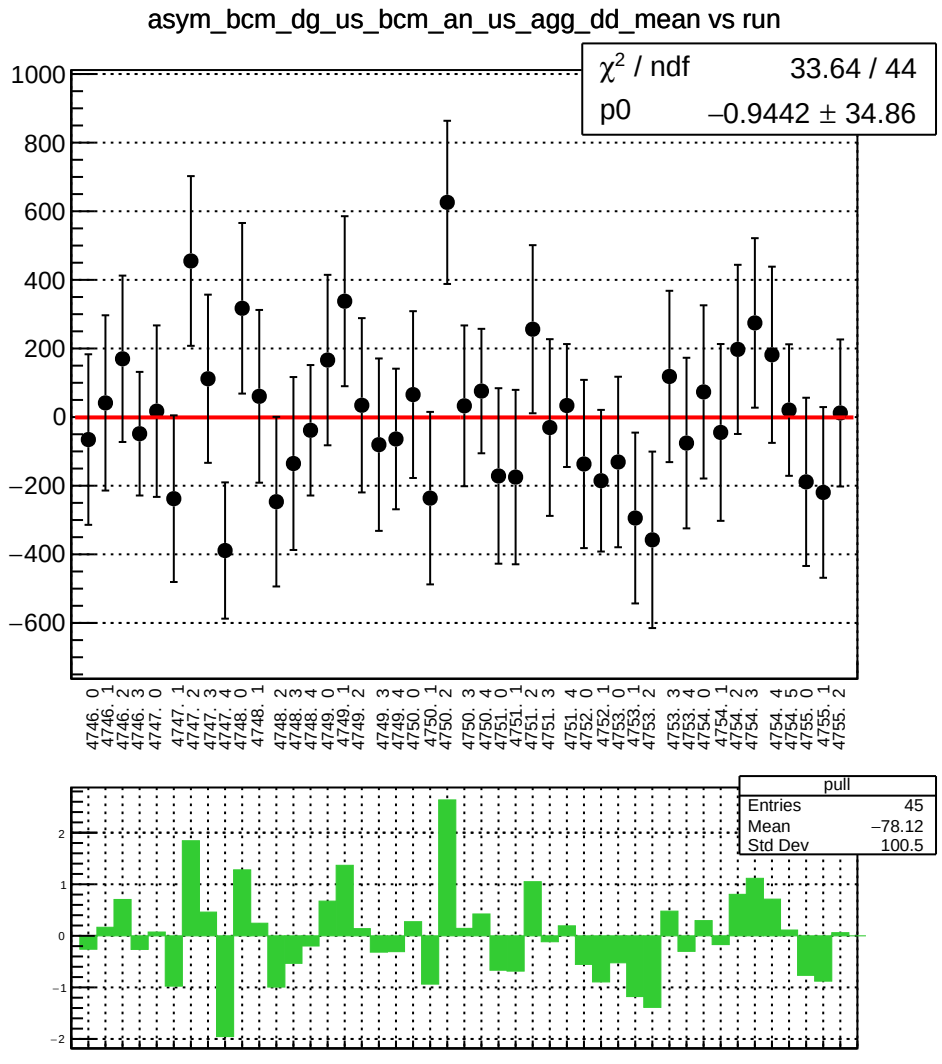
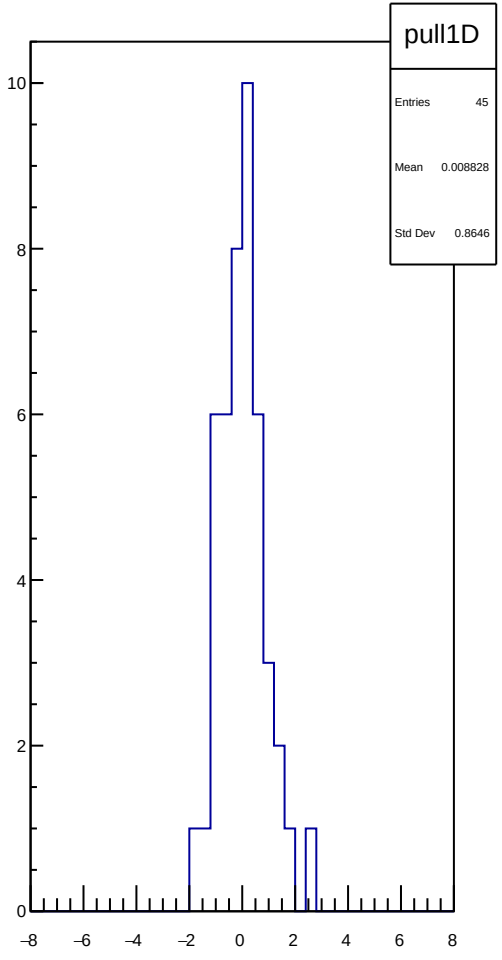
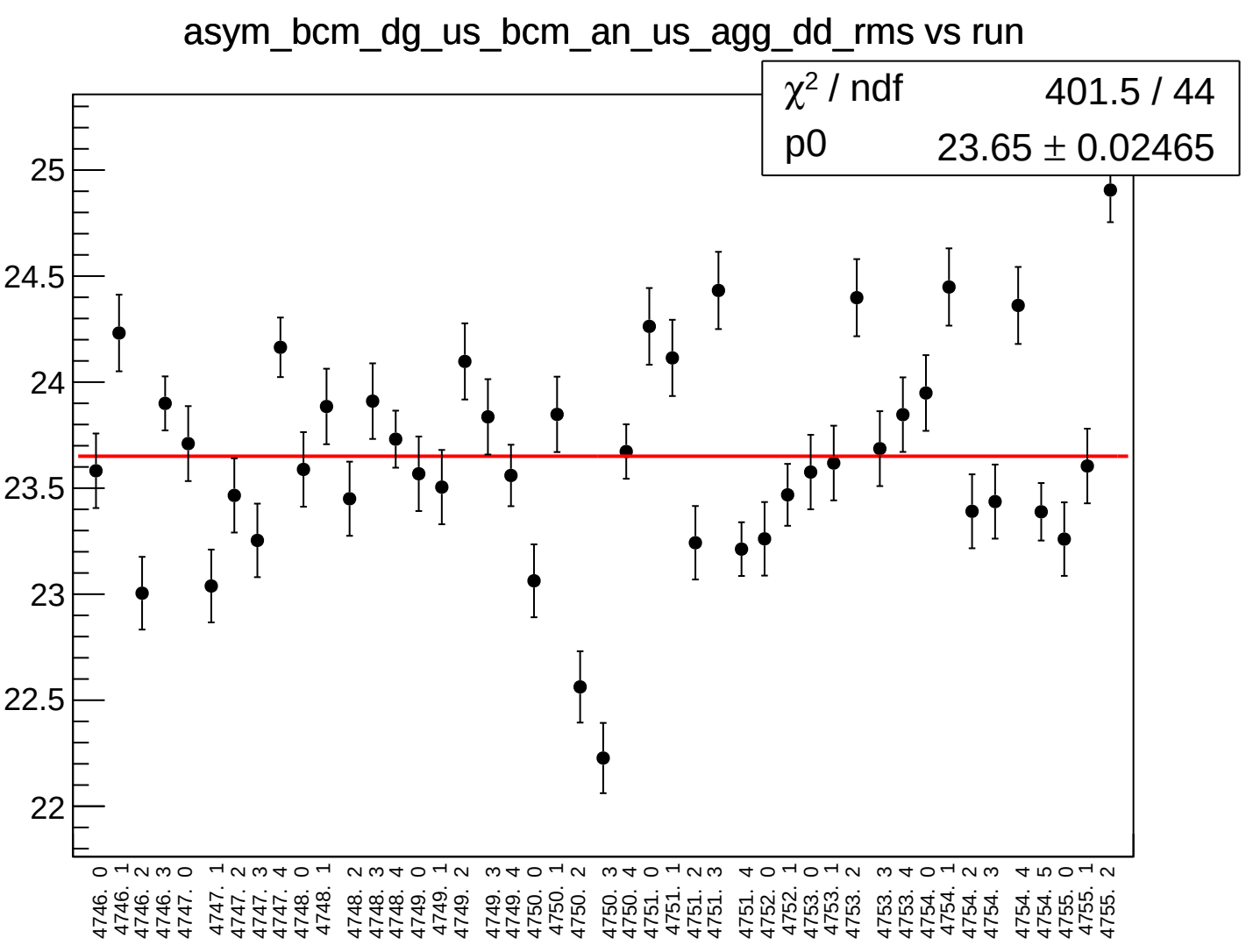
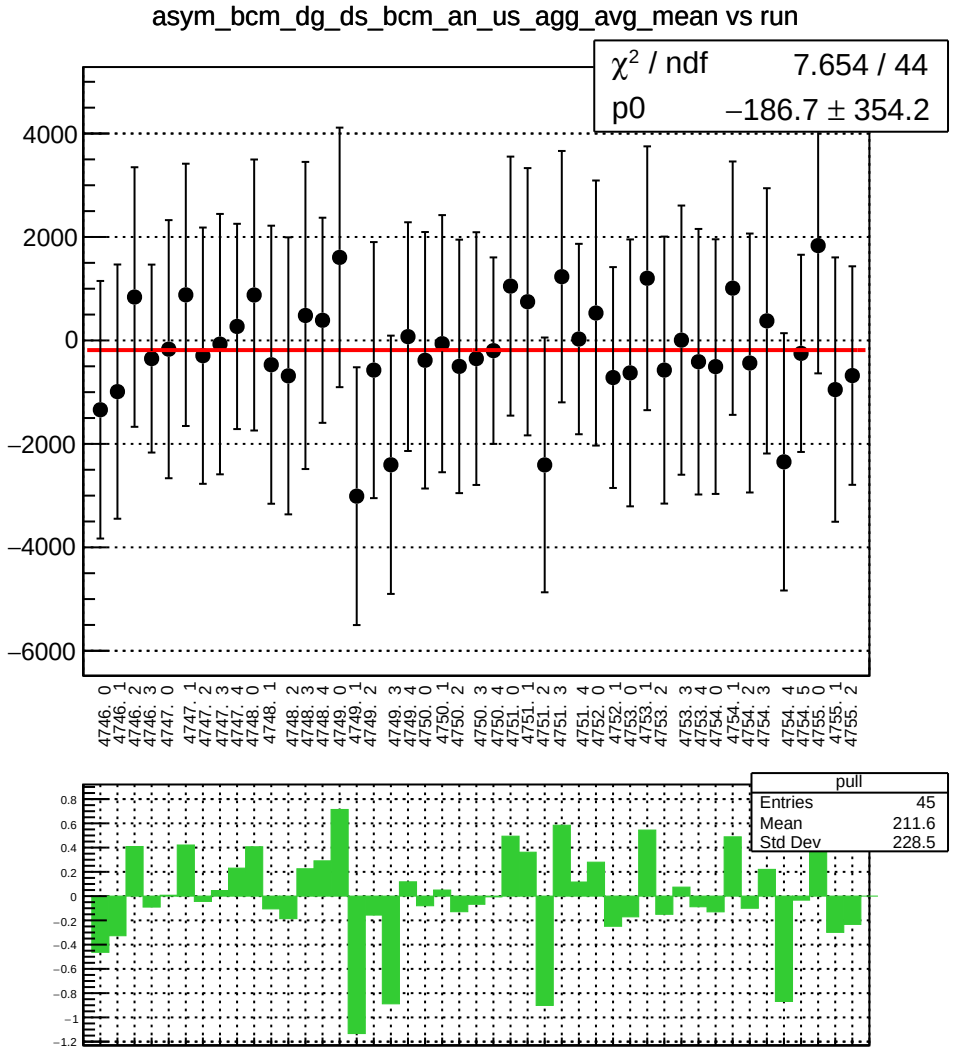
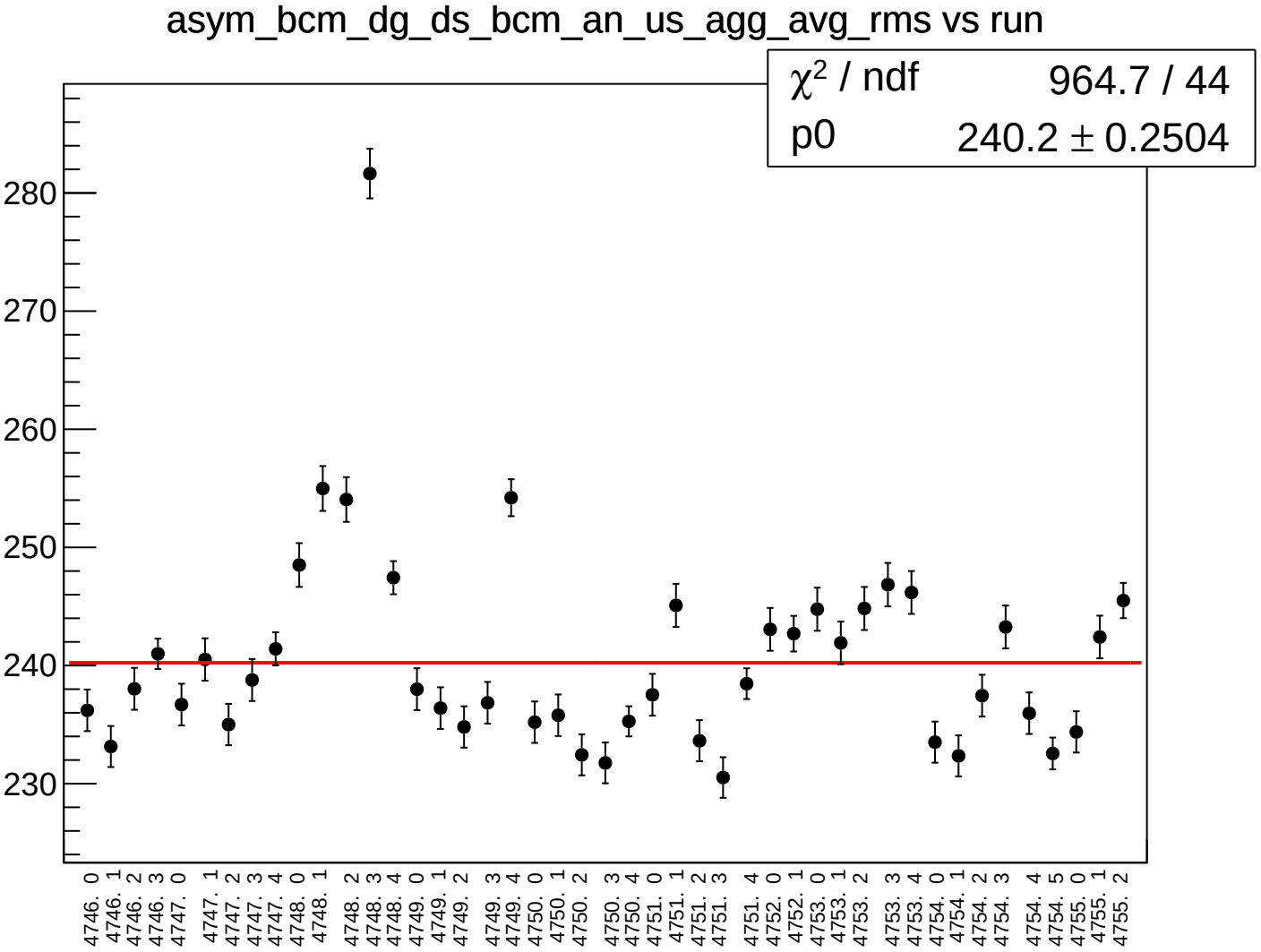
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

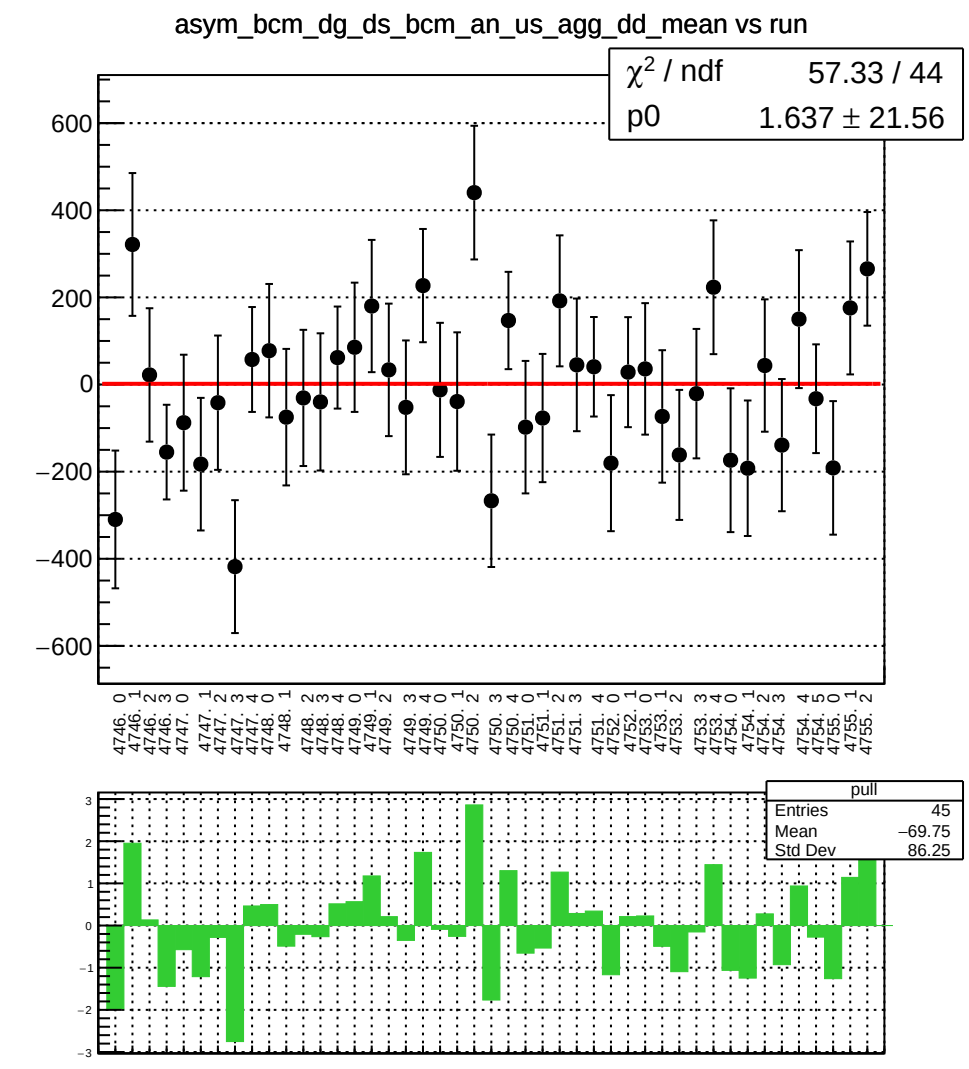

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 33.64 / 44
p0 −0.9442 ± 34.86
1000
800
600
400
200
0
−200
−400
−600
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −78.12
Std Dev 100.5
2
1
0
−1
−2

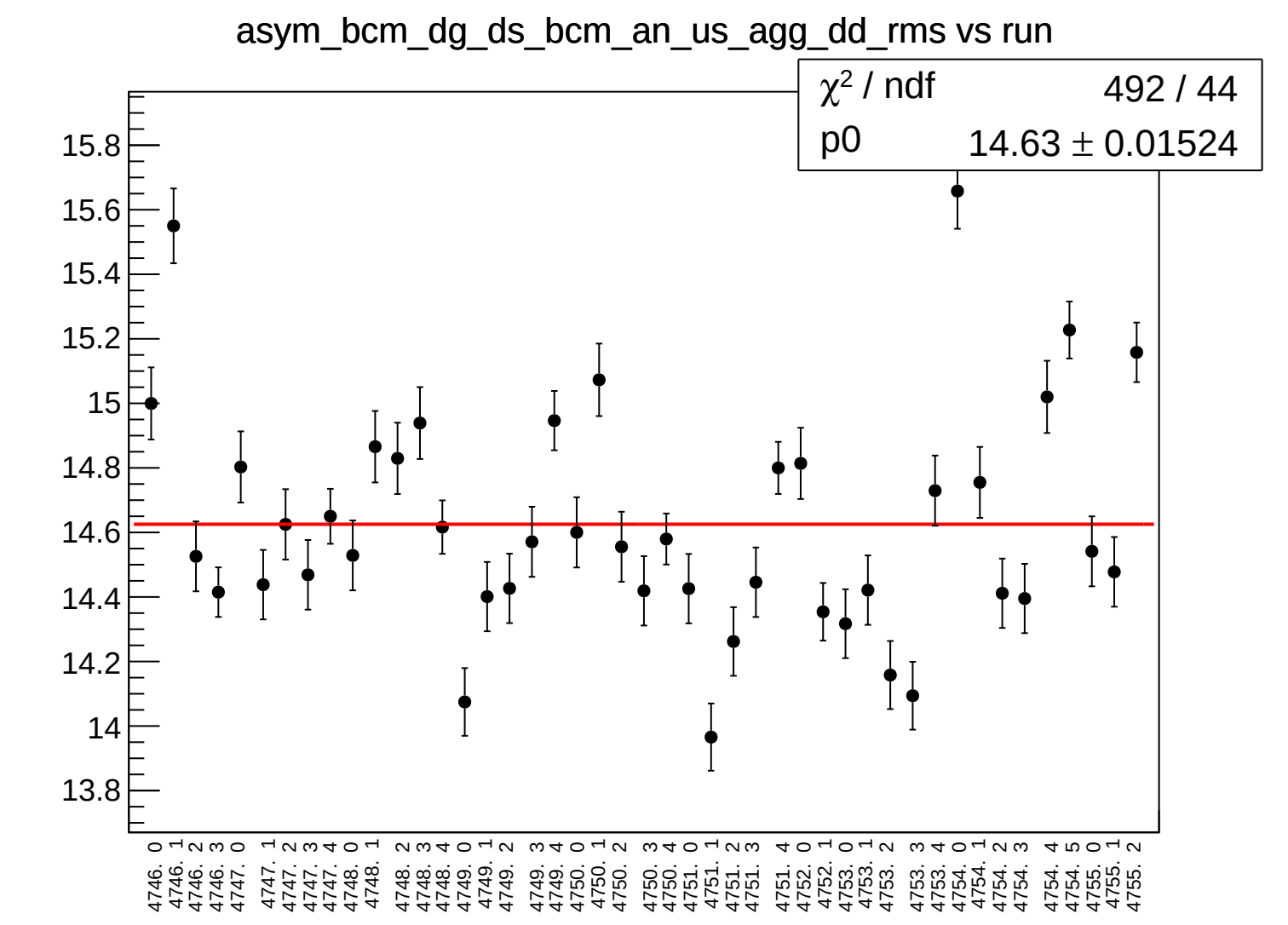

pull1D
Entries 45
Mean 0.008828
Std Dev 0.8646
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

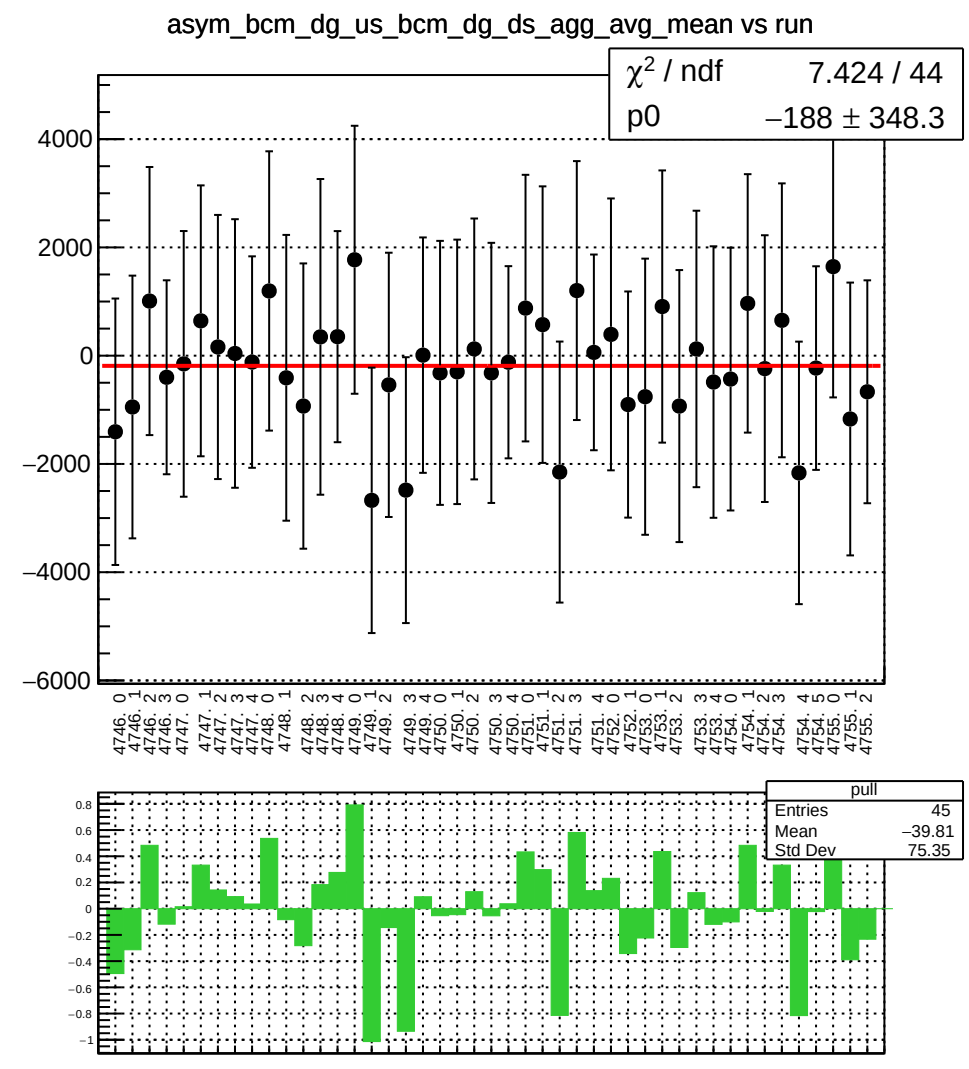

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 401.5 / 44
p0 23.65 ± 0.02465
25
24.5
24
23.5
23
22.5
22
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

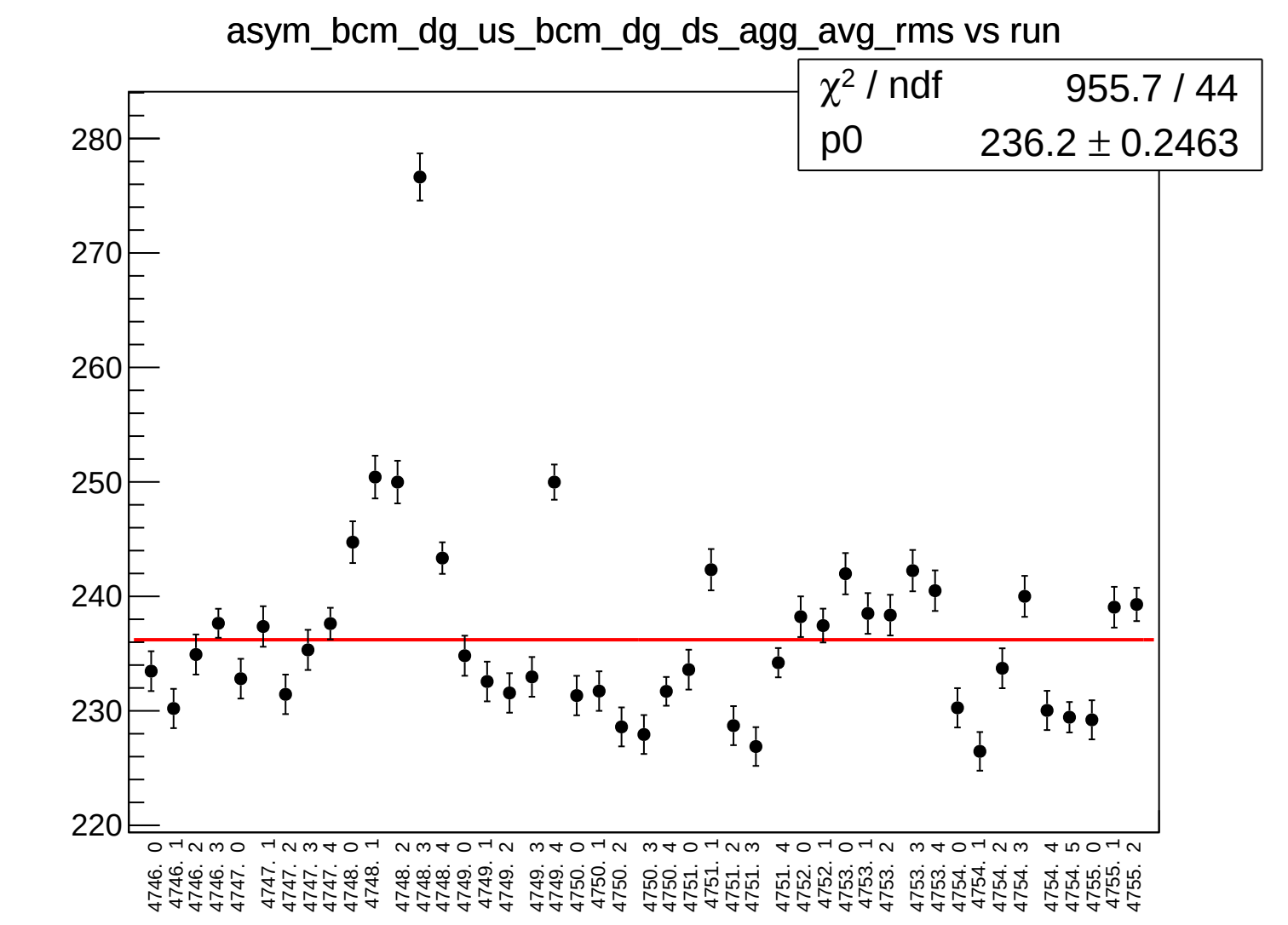

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 7.654 / 44
p0 −186.7 ± 354.2
4000
2000
0
−2000
−4000
−6000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 211.6
Std Dev 228.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 45
Mean 0.0001222
Std Dev 0.4124
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

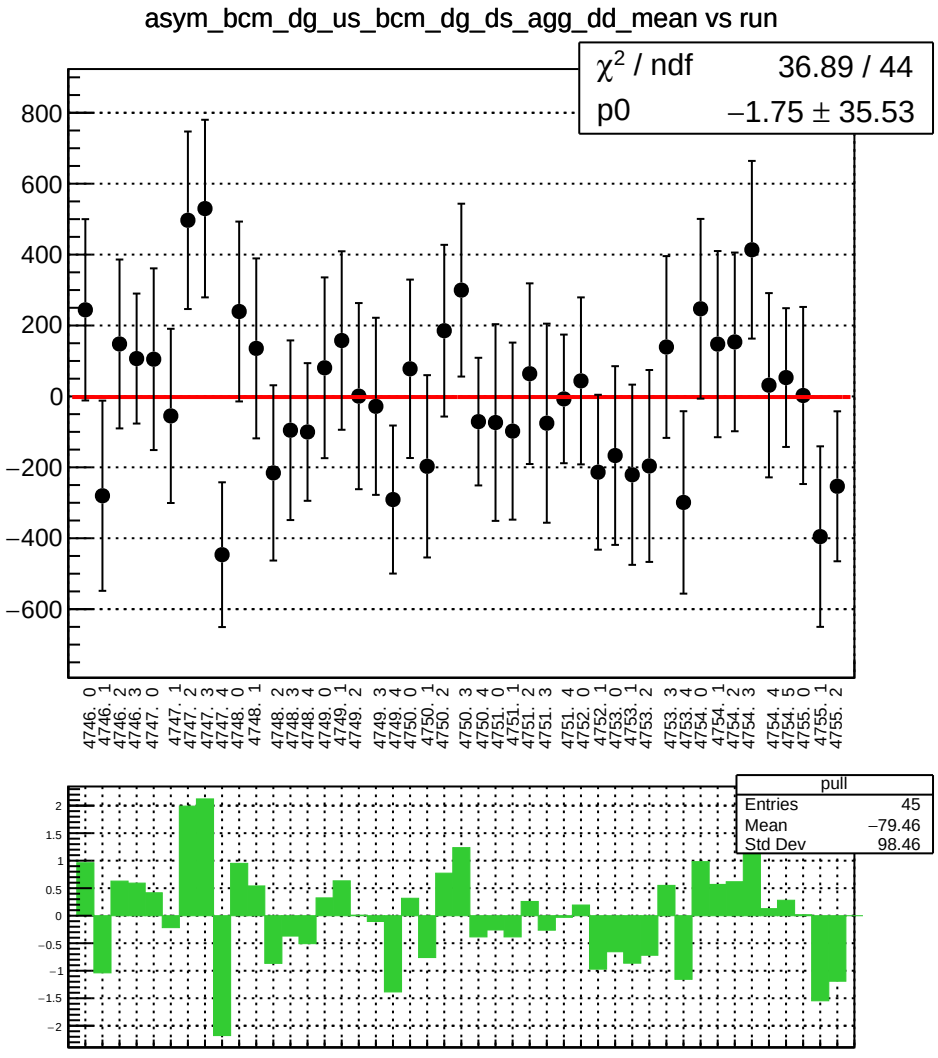

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 964.7 / 44
p0 240.2 ± 0.2504
280
270
260
250
240
230
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

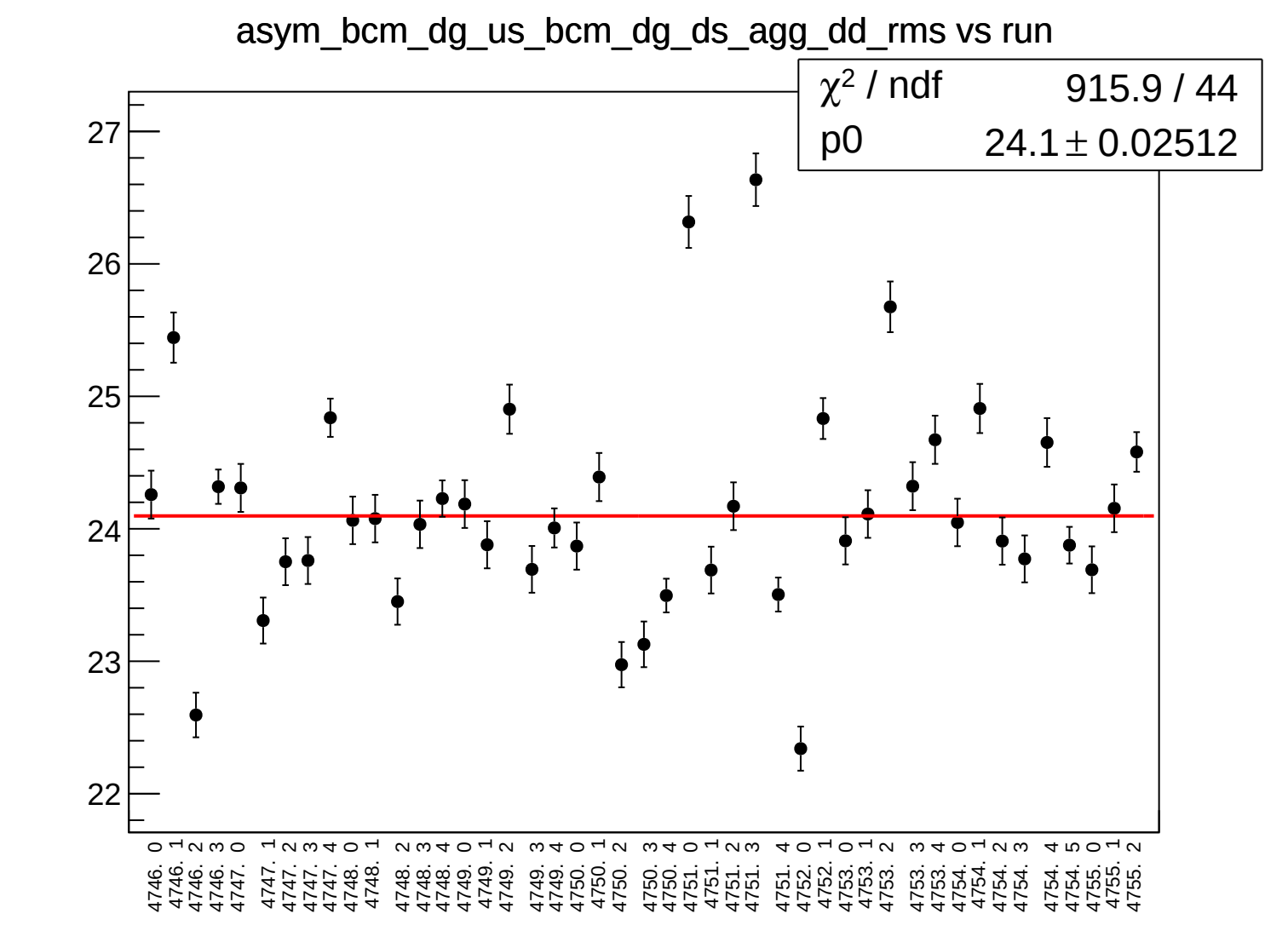

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 57.33 / 44
p0 1.637 ± 21.56
600
400
200
0
−200
−400
−600
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −69.75
Std Dev 86.25
3
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.02126
Std Dev 1.129
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

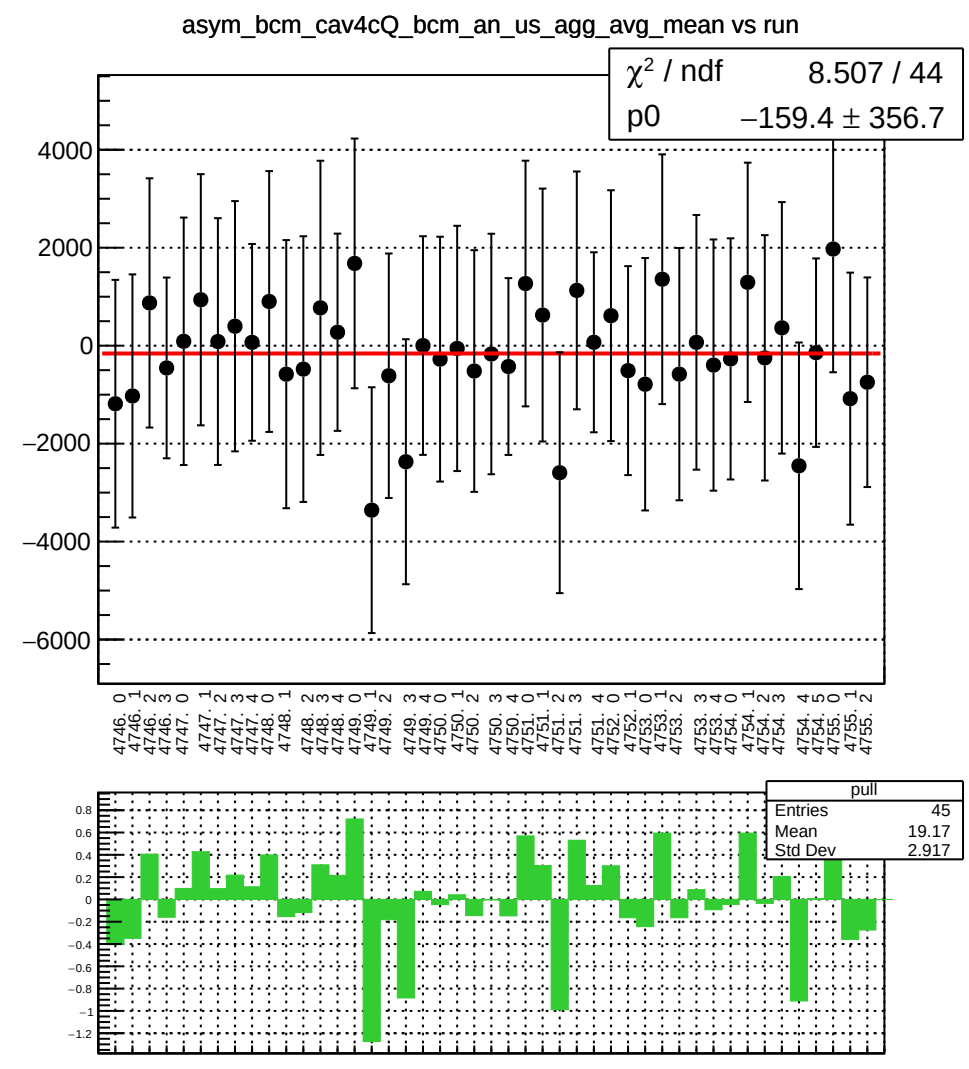

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 492 / 44
p0 14.63 ± 0.01524
15.8
15.6
15.4
15.2
15
14.8
14.6
14.4
14.2
14
13.8
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

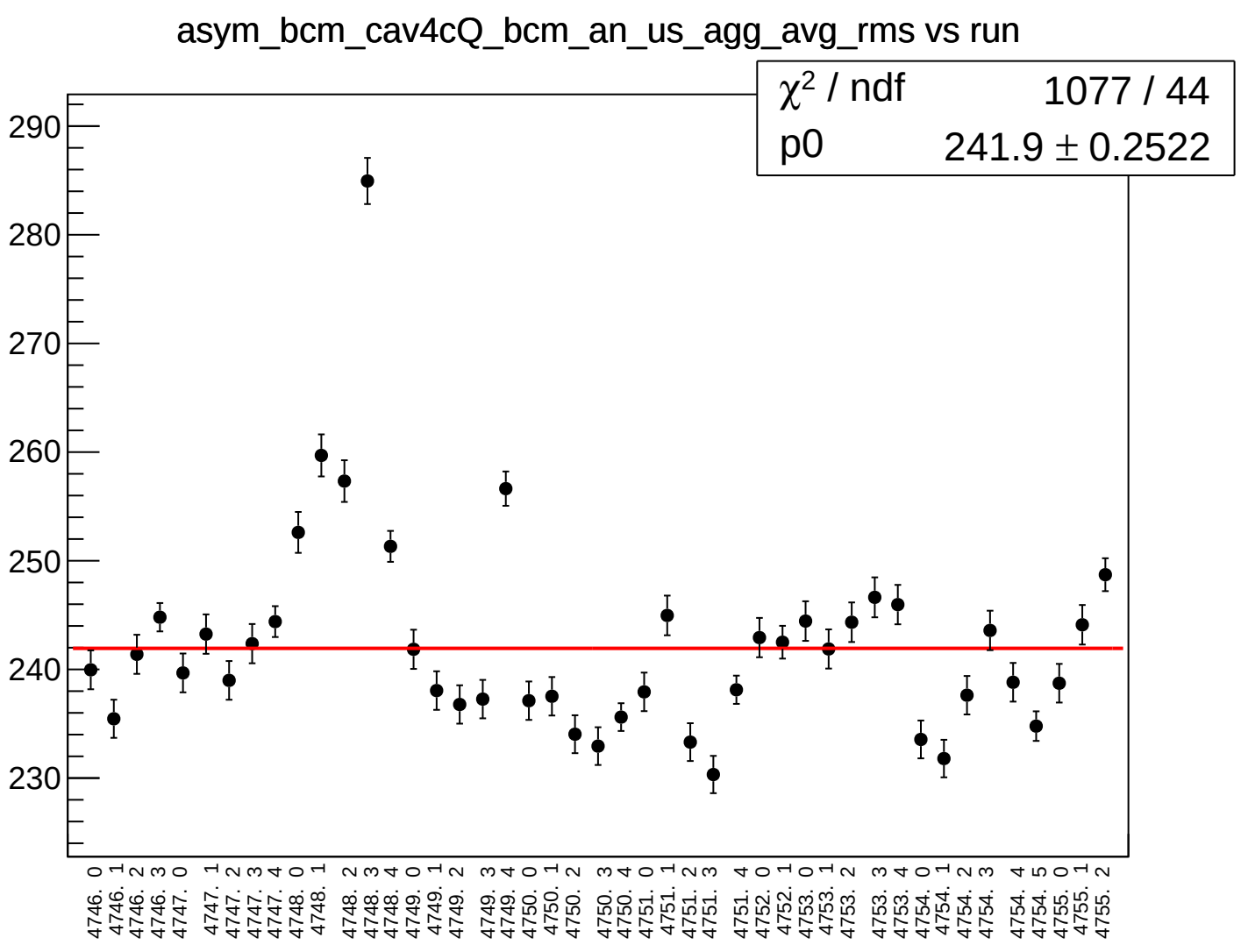

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 7.424 / 44
p0 −188 ± 348.3
4000
2000
0
−2000
−4000
−6000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −39.81
Std Dev 75.35
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean 0.001099
Std Dev 0.4062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

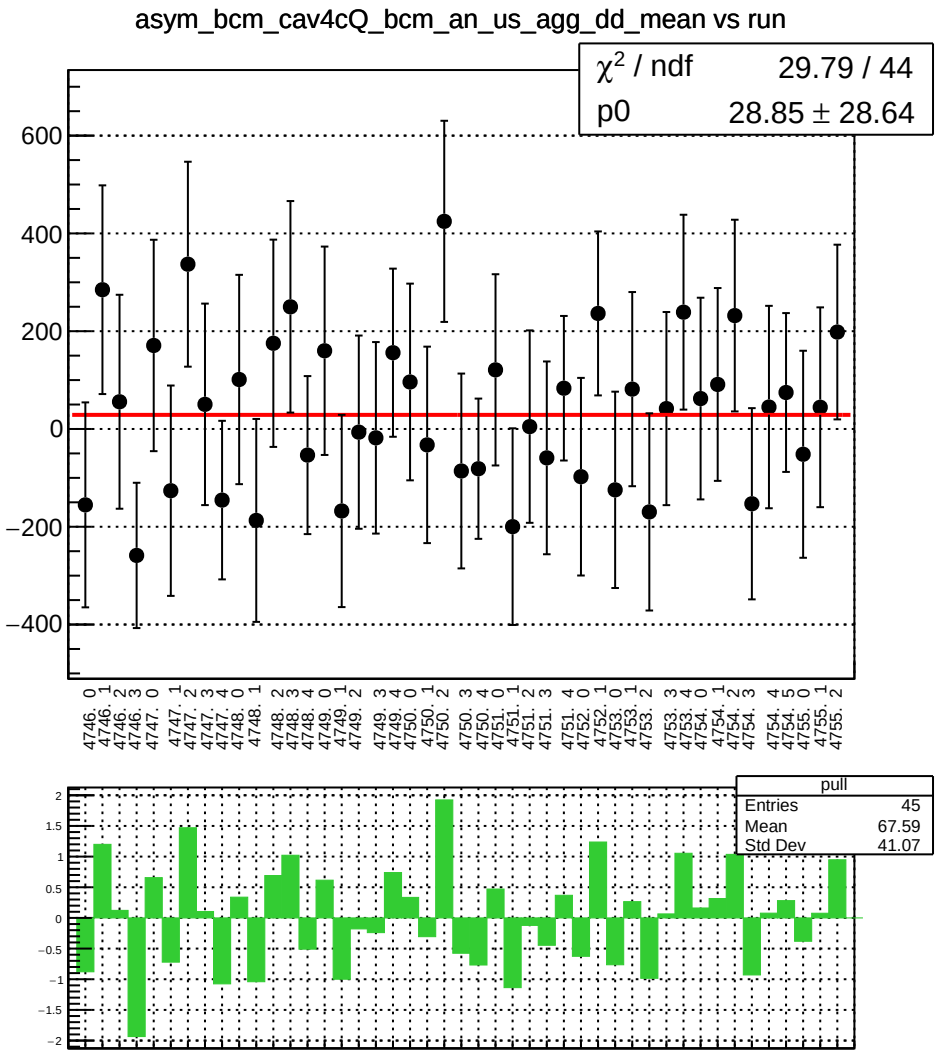

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 955.7 / 44
p0 236.2 ± 0.2463
280
270
260
250
240
230
220
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

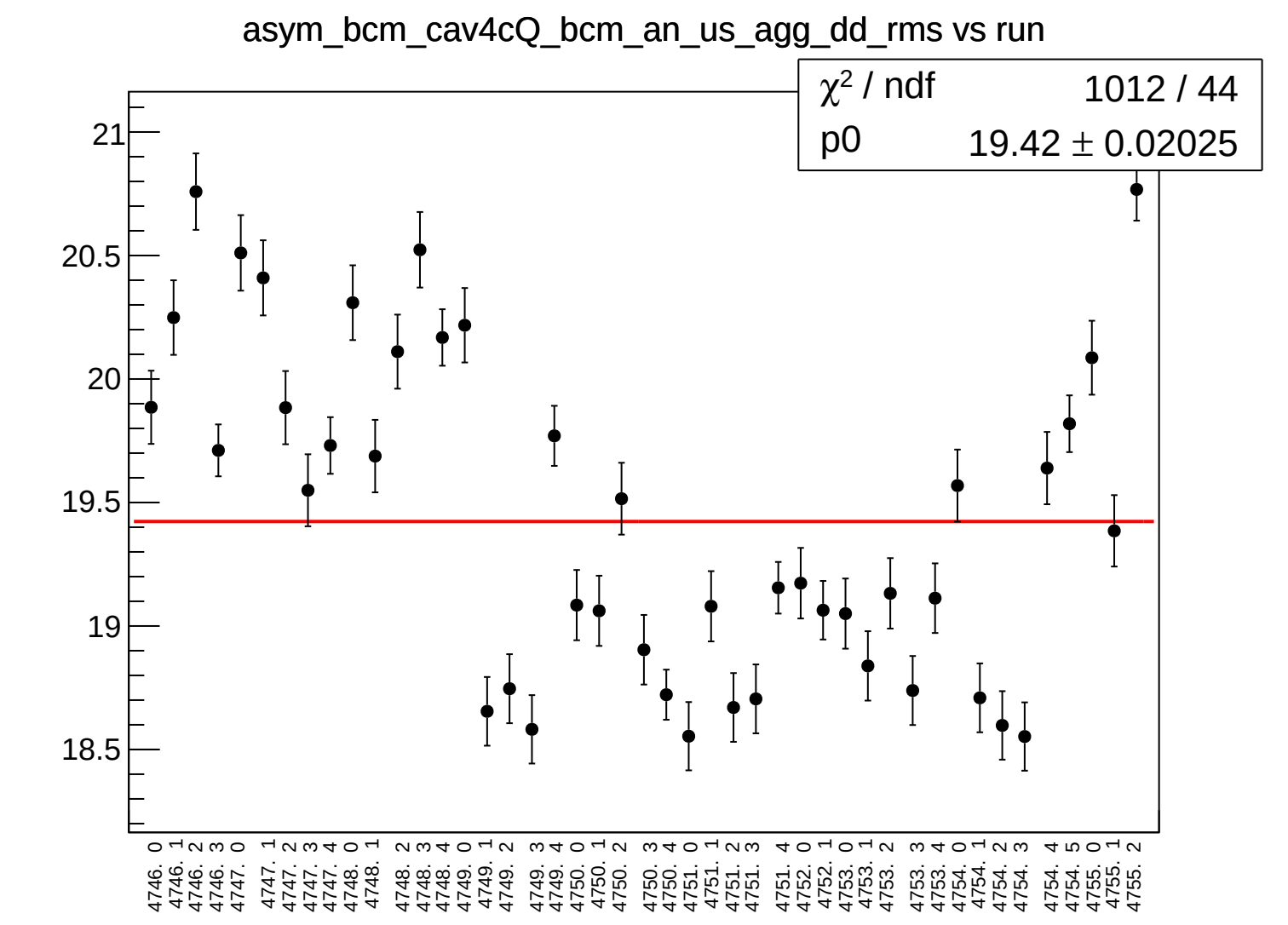

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 36.89 / 44
p0 −1.75 ± 35.53
800
600
400
200
0
−200
−400
−600
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −79.46
Std Dev 98.46
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.02018
Std Dev 0.9051
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

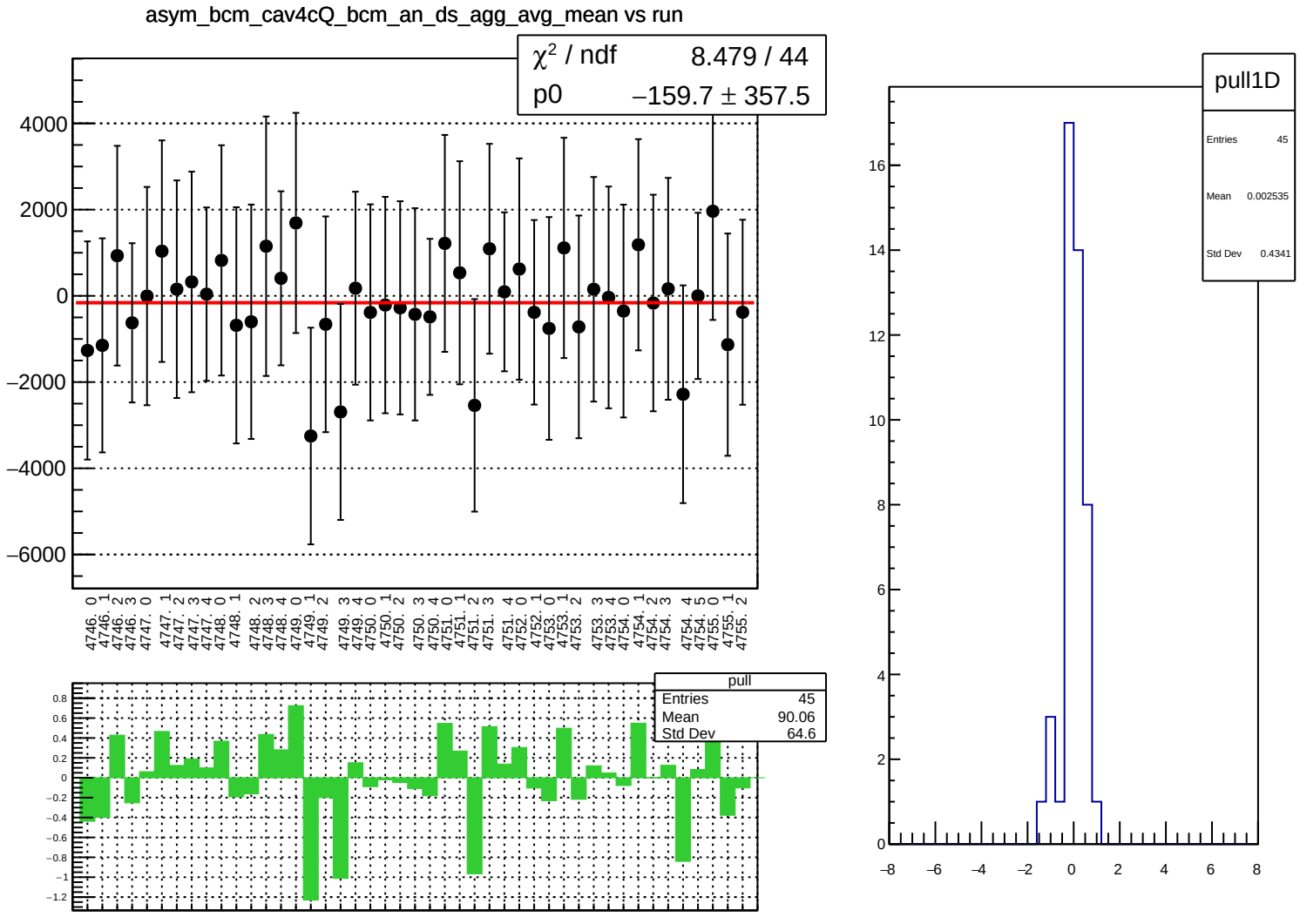

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 915.9 / 44
p0 24.1 ± 0.02512
27
26
25
24
23
22
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

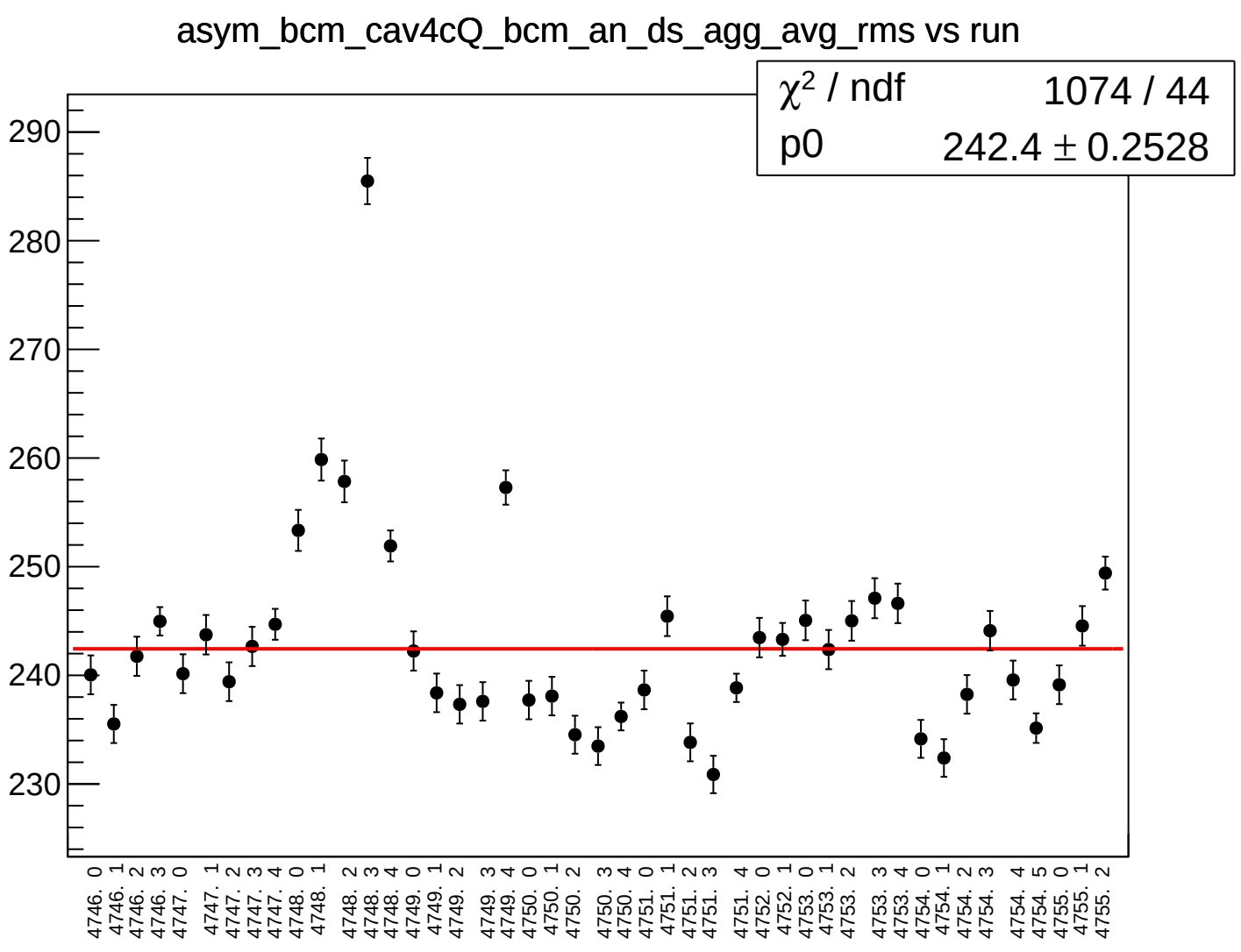

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 8.507 / 44
p0 −159.4 ± 356.7
4000
2000
0
−2000
−4000
−6000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 19.17
Std Dev 2.917
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 45
Mean 0.003113
Std Dev 0.4348
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

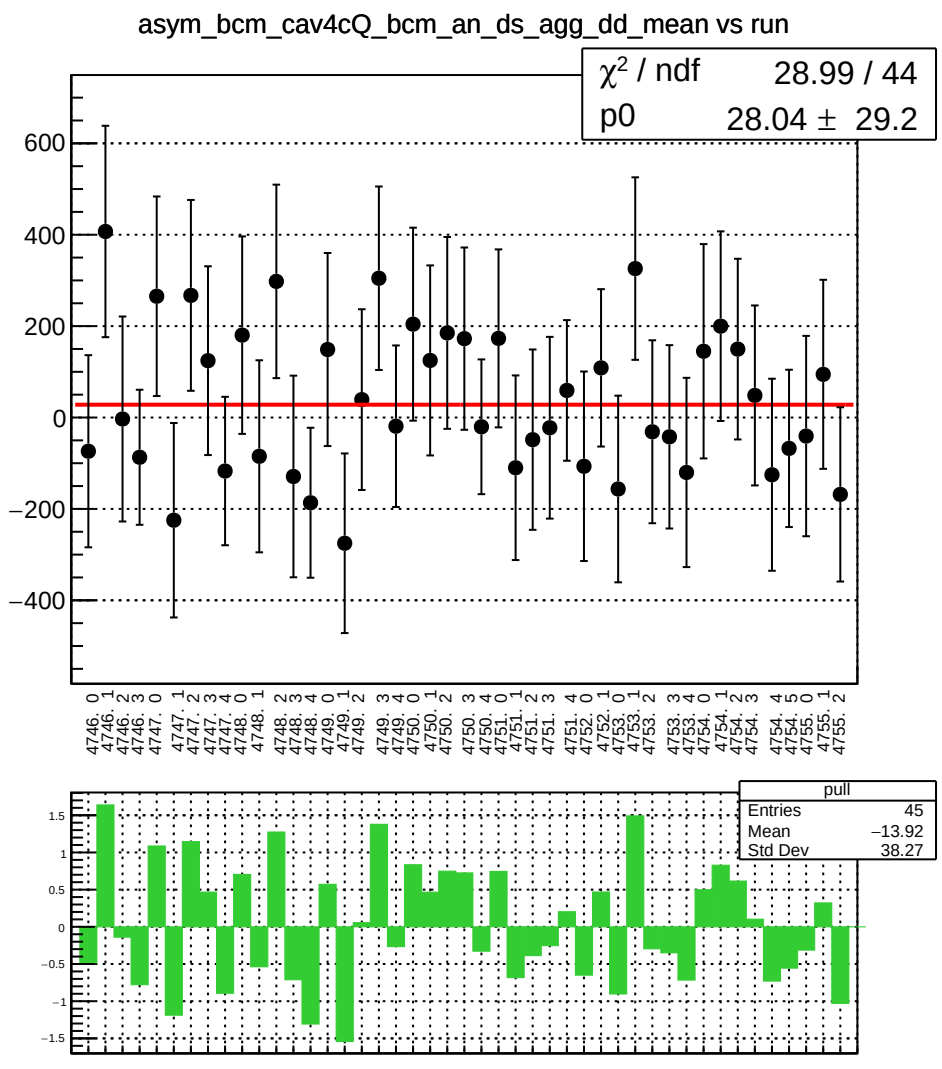

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1077 / 44
p0 241.9 ± 0.2522
290
280
270
260
250
240
230
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

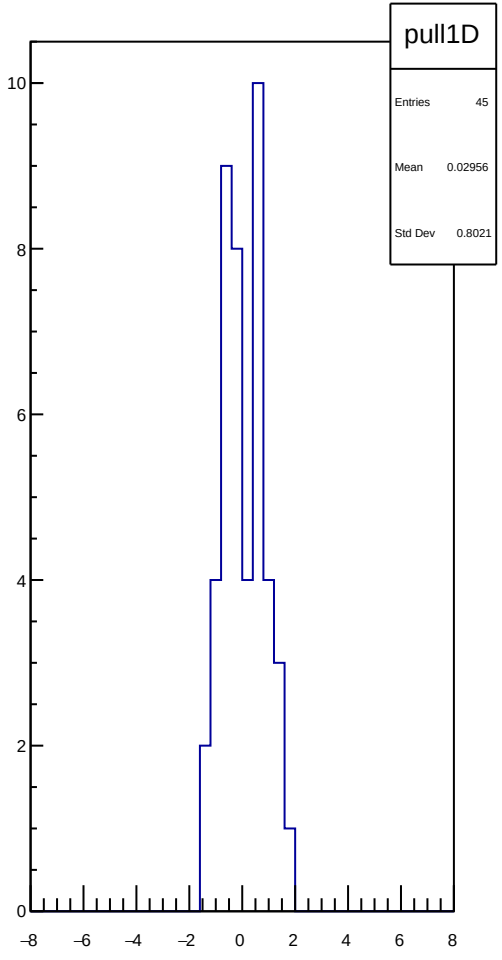

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 29.79 / 44
p0 28.85 ± 28.64
600
400
200
0
−200
−400
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 67.59
Std Dev 41.07
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.02136
Std Dev 0.8133
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

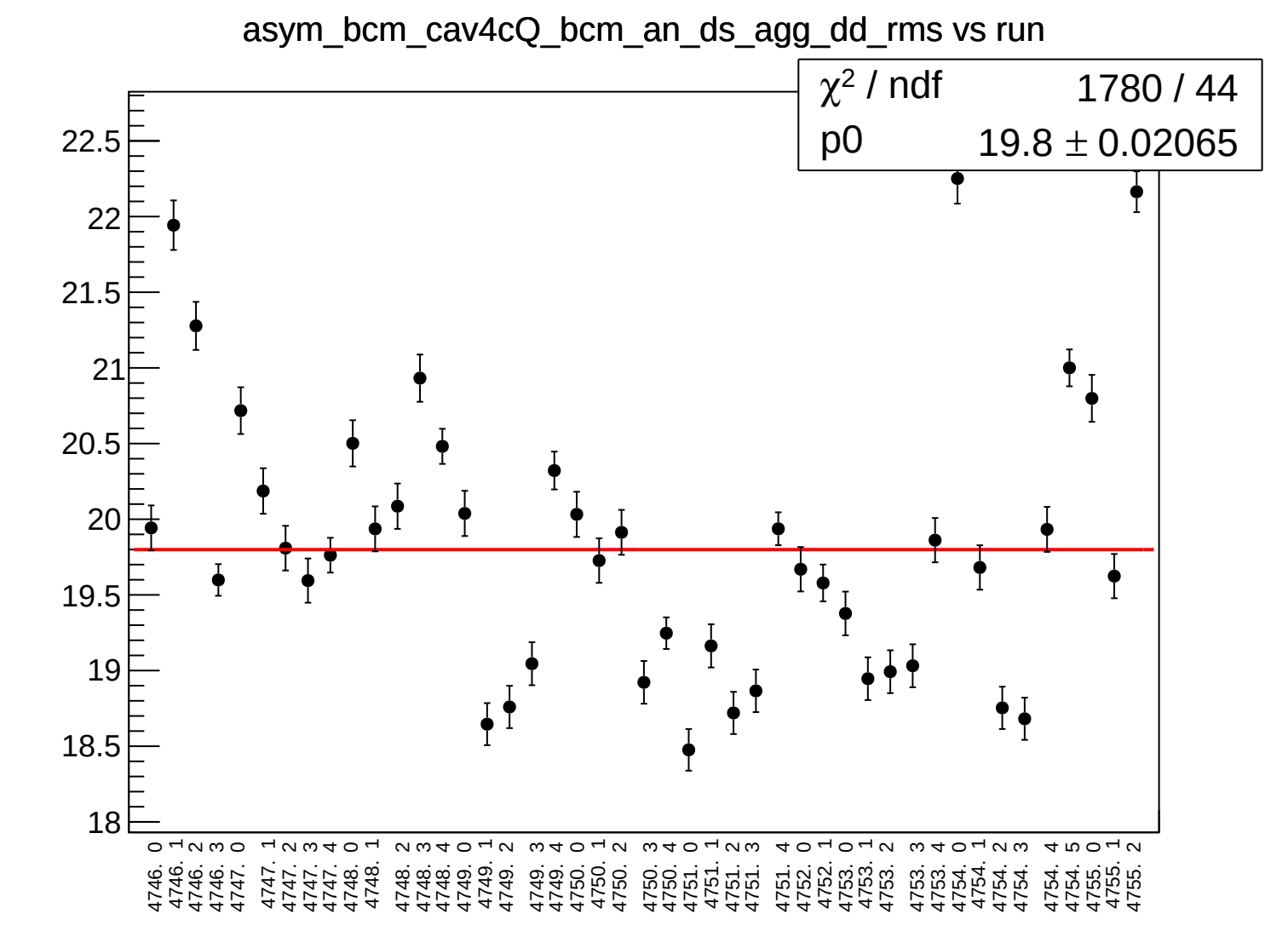

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1012 / 44
p0 19.42 ± 0.02025
21
20.5
20
19.5
19
18.5
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

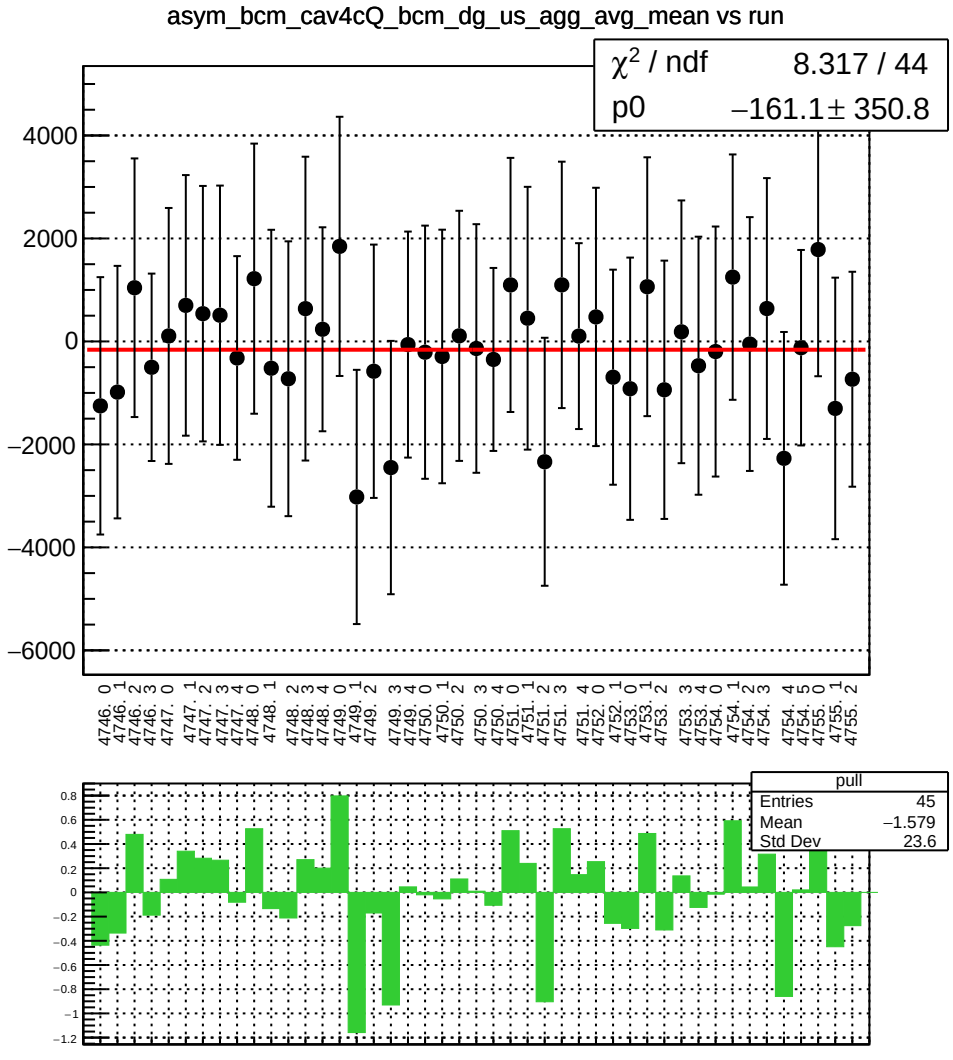

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.479 / 44
p0 −159.7 ± 357.5
4000
2000
0
−2000
−4000
−6000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 90.06
Std Dev 64.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 45
Mean 0.002535
Std Dev 0.4341
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

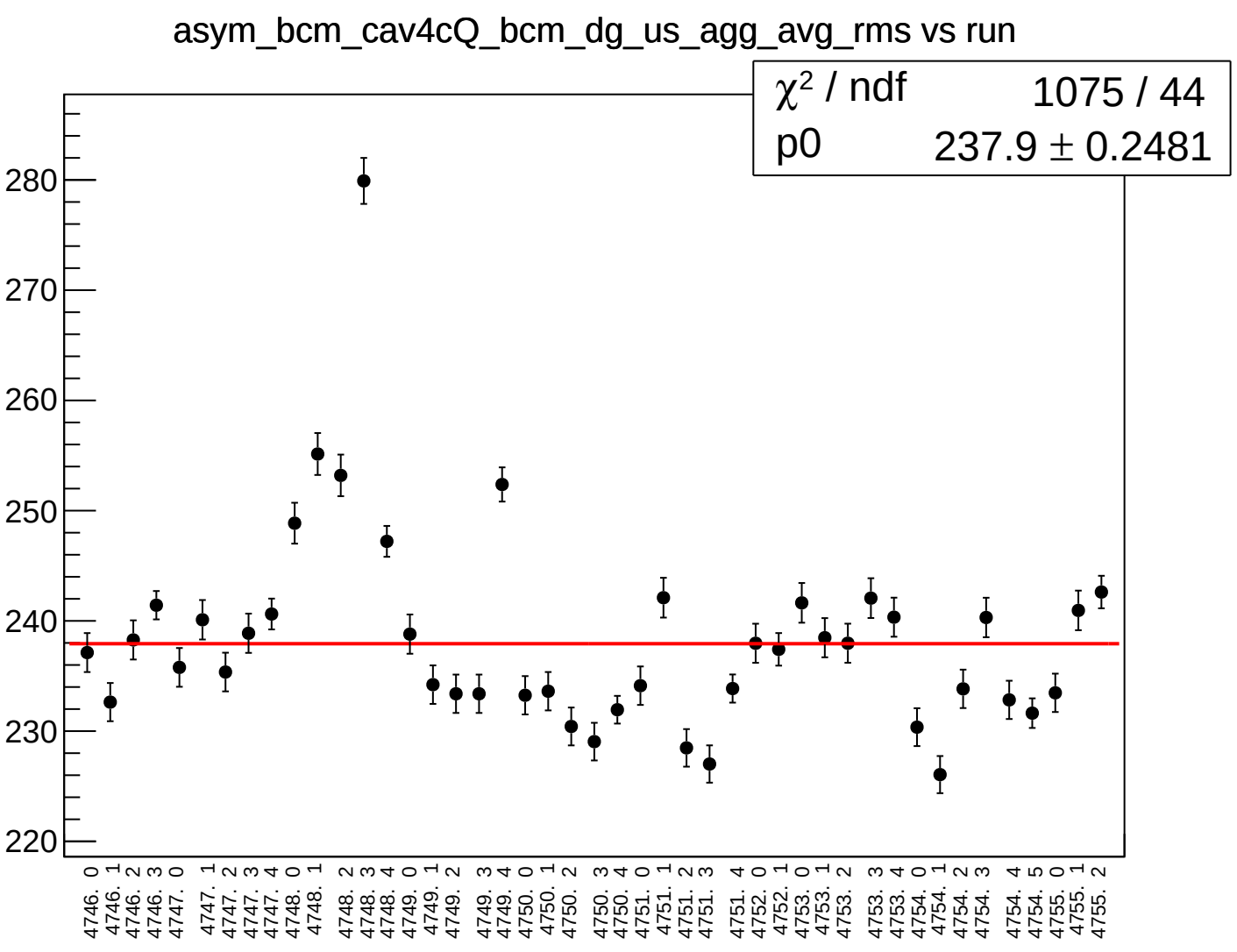

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1074 / 44
p0 242.4 ± 0.2528
290
280
270
260
250
240
230
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

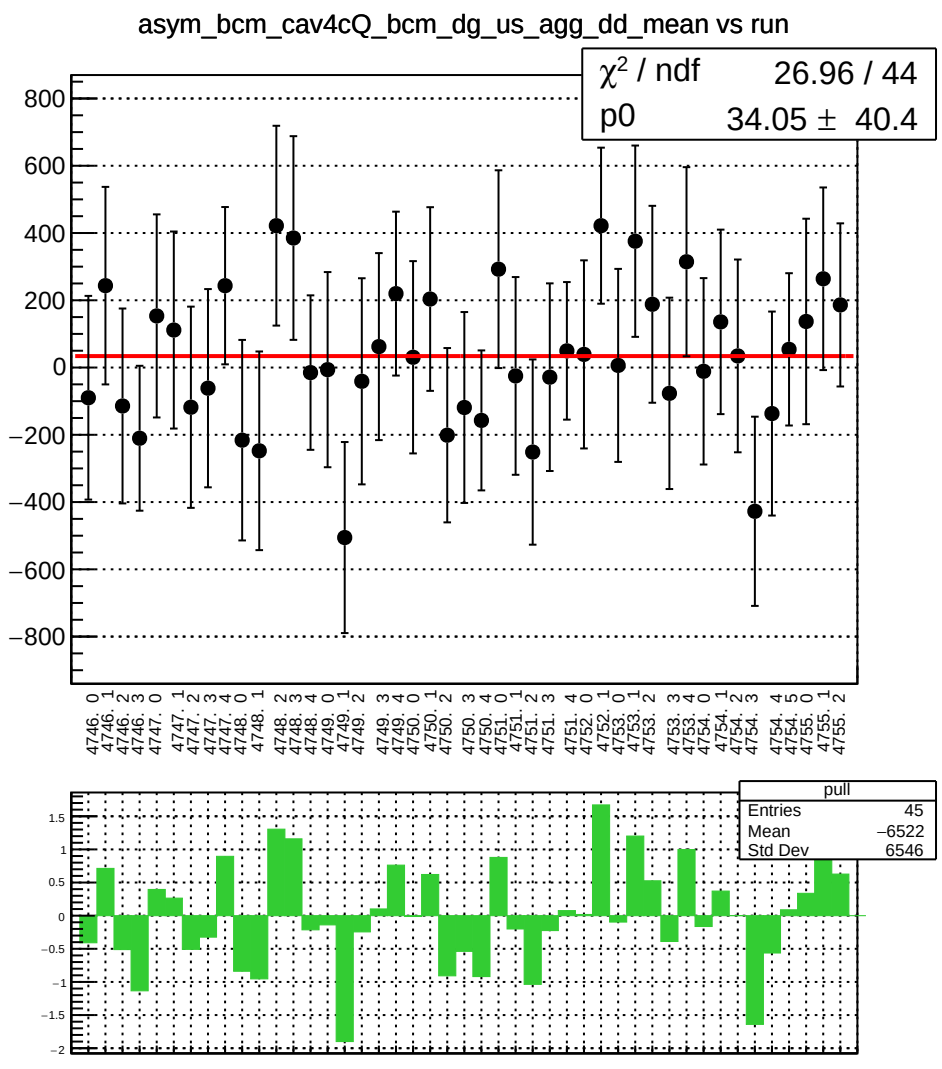

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 28.99 / 44
p0 28.04 ± 29.2
600
400
200
0
−200
−400
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −13.92
Std Dev 38.27
1.5
1
0.5
0
−0.5
−1
−1.5

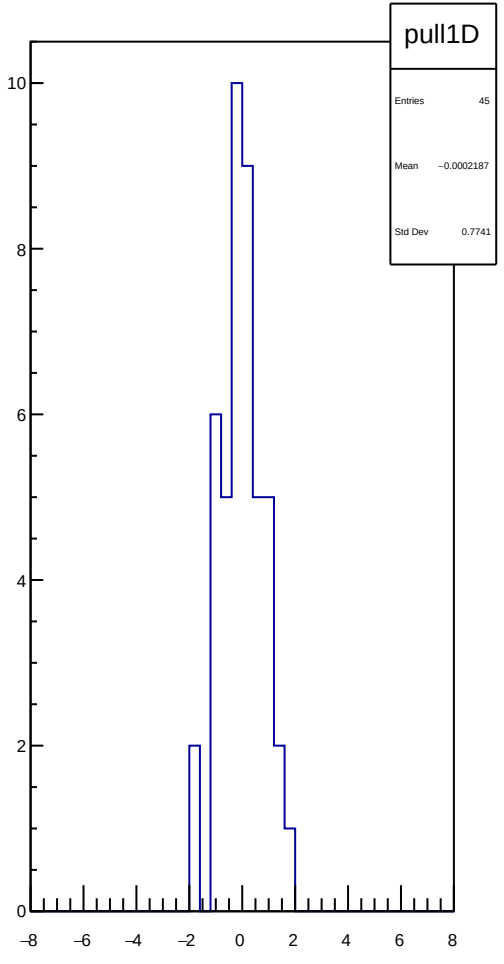

pull1D
Entries 45
Mean 0.02956
Std Dev 0.8021
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

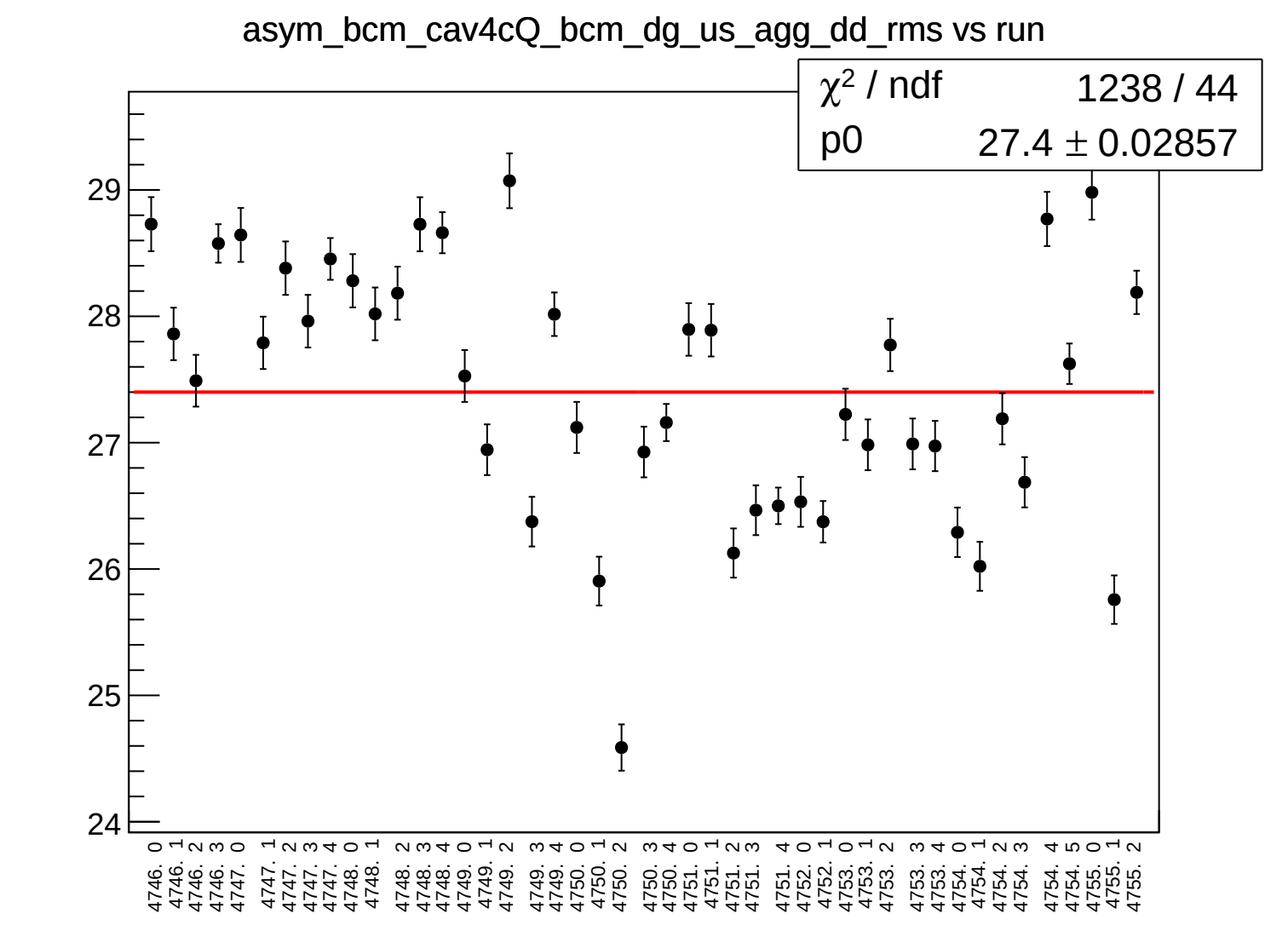

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1780 / 44
p0 19.8 ± 0.02065
22.5
22
21.5
21
20.5
20
19.5
19
18.5
18
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

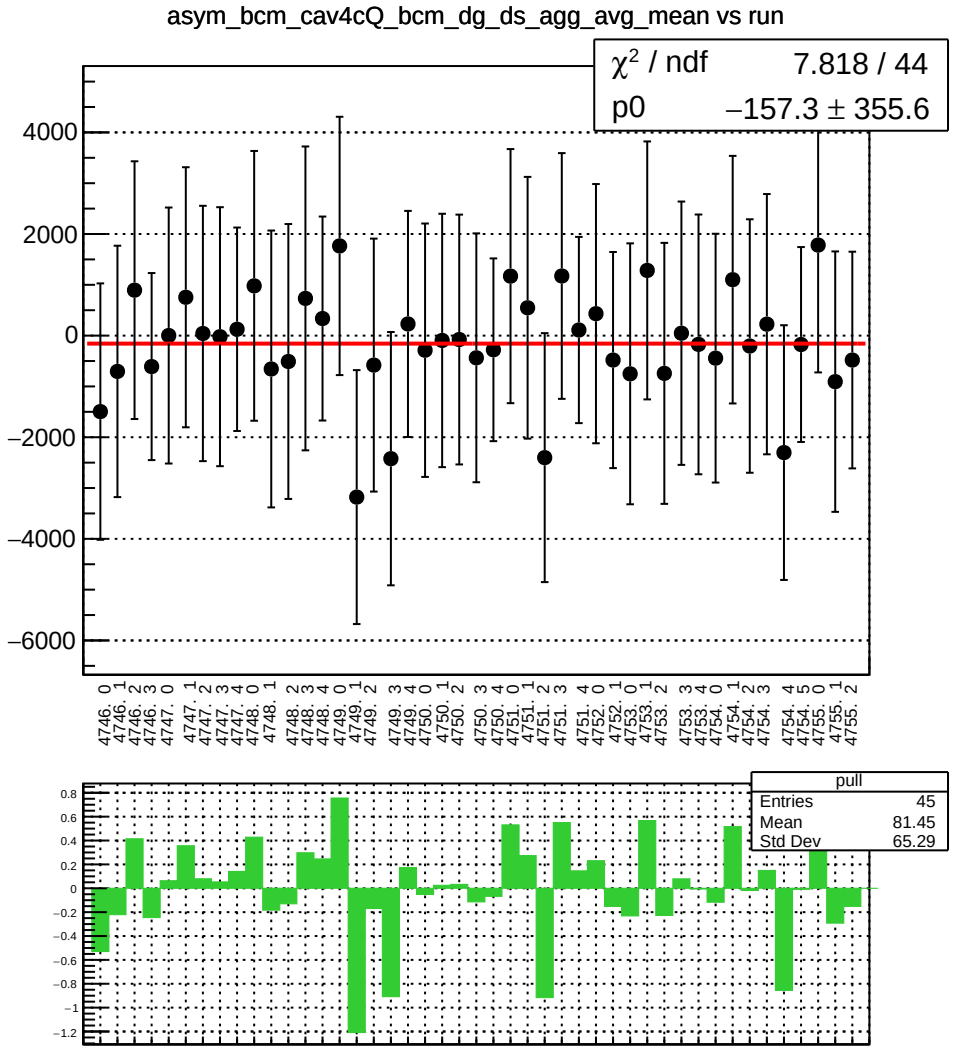

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 8.317 / 44
p0 −161.1± 350.8
4000
2000
0
−2000
−4000
−6000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −1.579
Std Dev 23.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 45
Mean 0.00418
Std Dev 0.4299
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

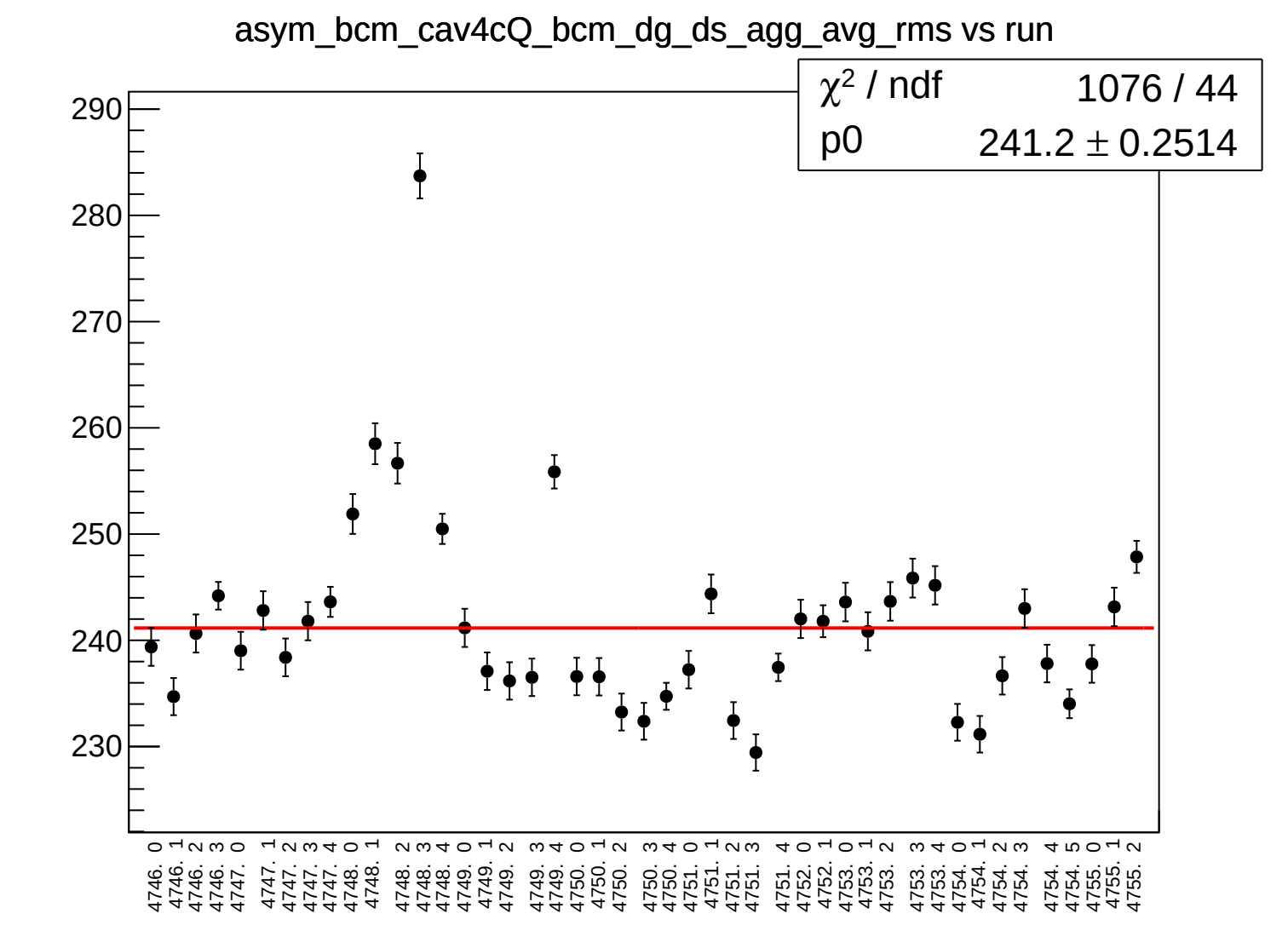

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1075 / 44
p0 237.9 ± 0.2481
280
270
260
250
240
230
220
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

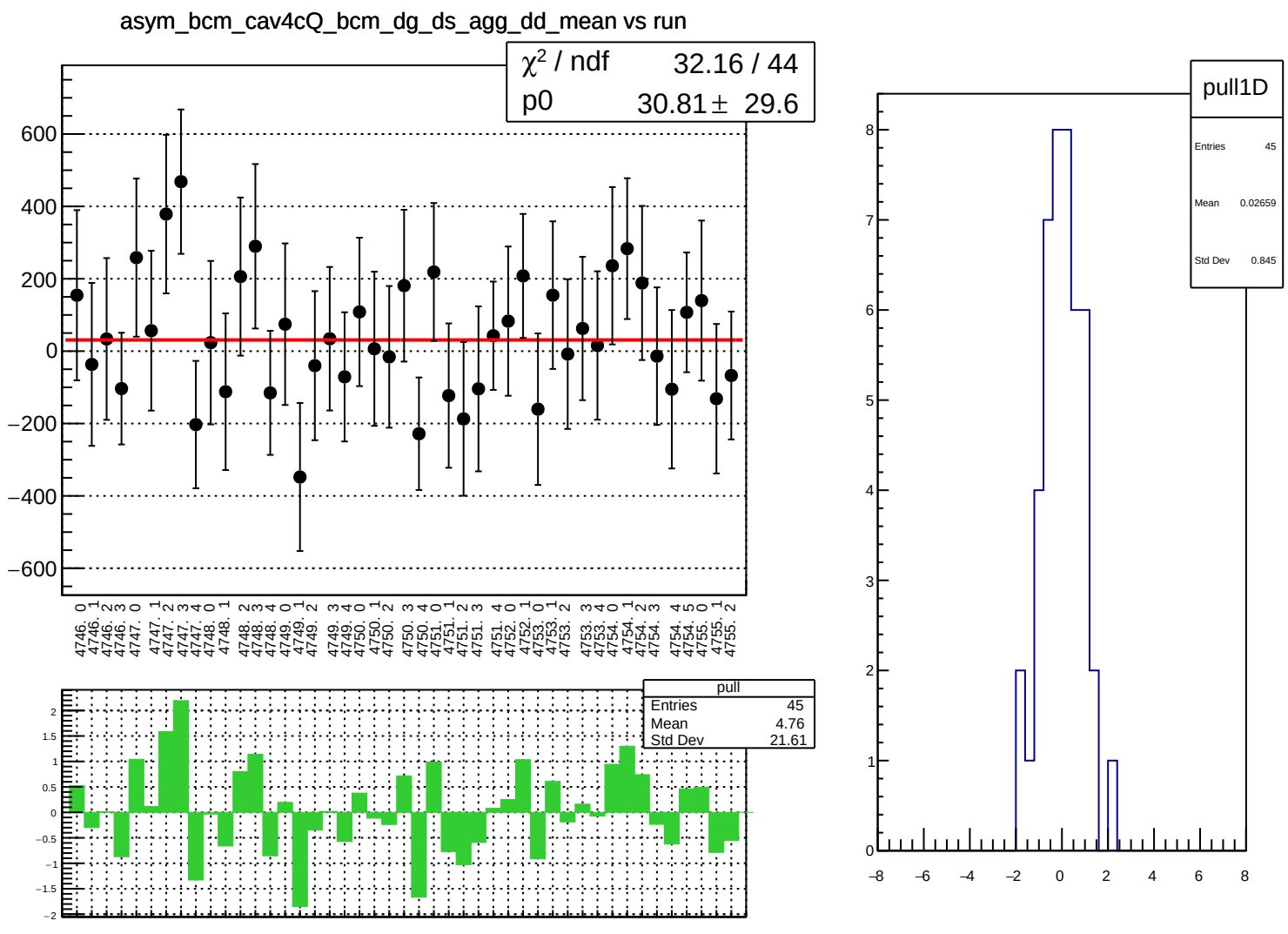

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 26.96 / 44
p0 34.05 ± 40.4
pull
Entries 45
Mean −6522
Std Dev 6546

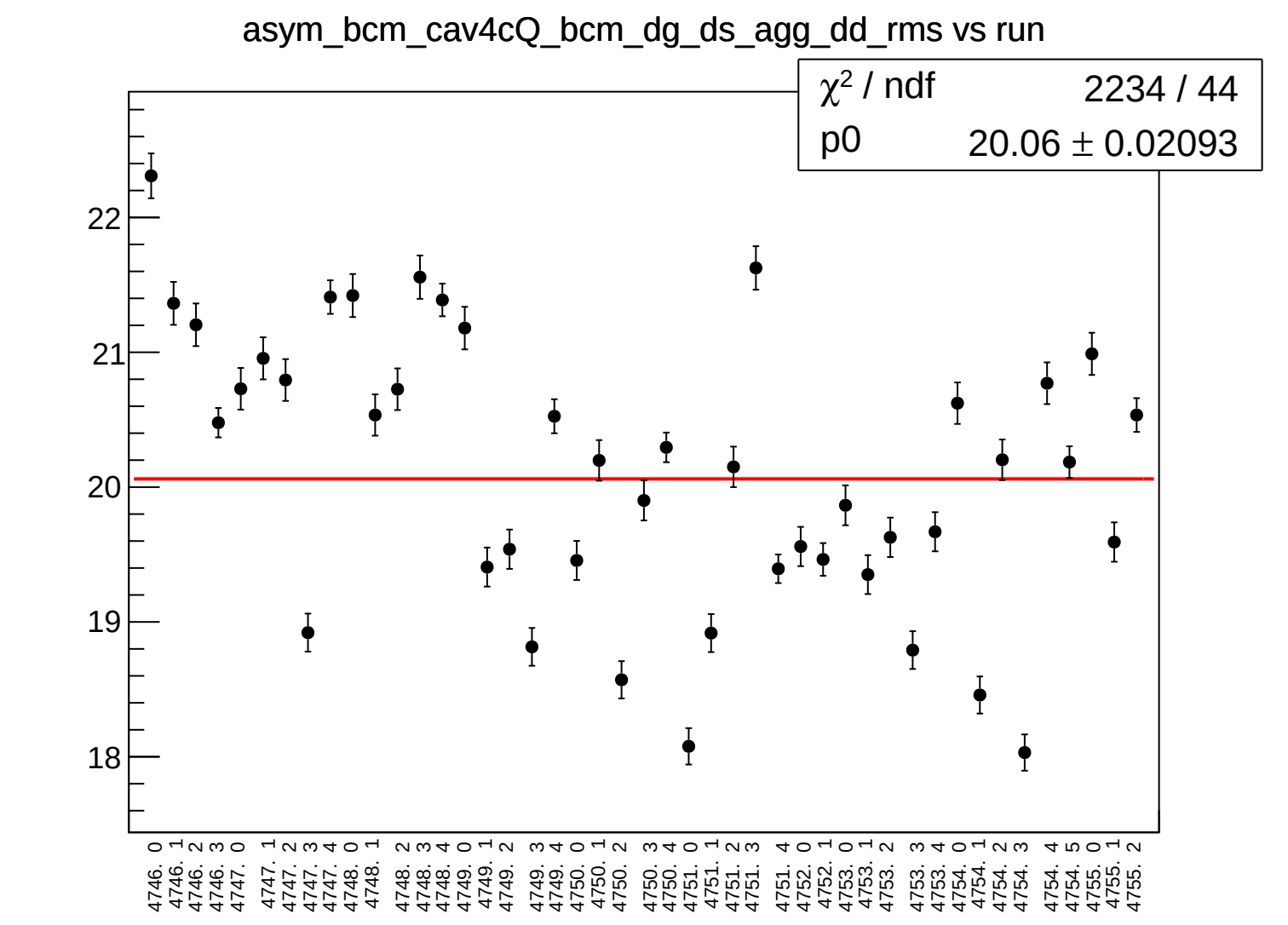

pull1D
Entries 45
Mean −0.0002187
Std Dev 0.7741

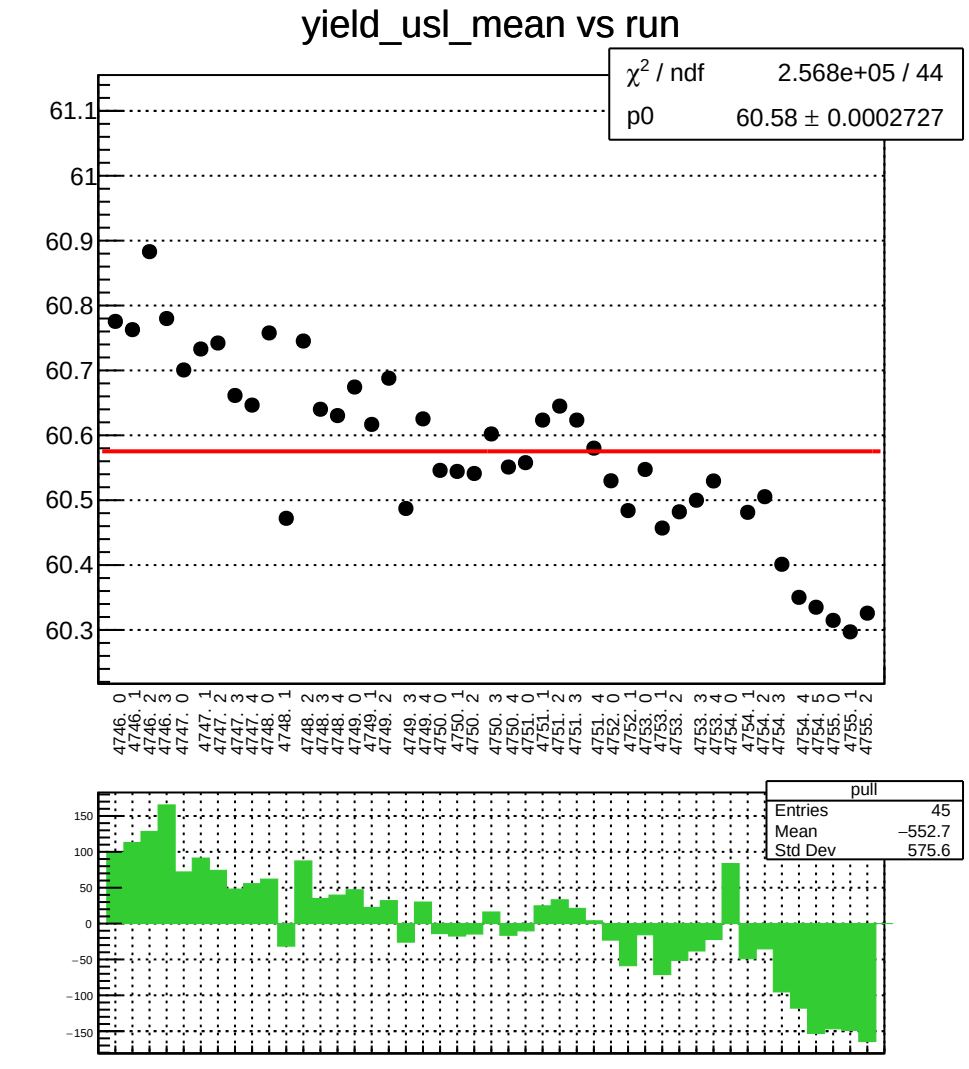

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1238 / 44
p0 27.4 ± 0.02857
29
28
27
26
25
24
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

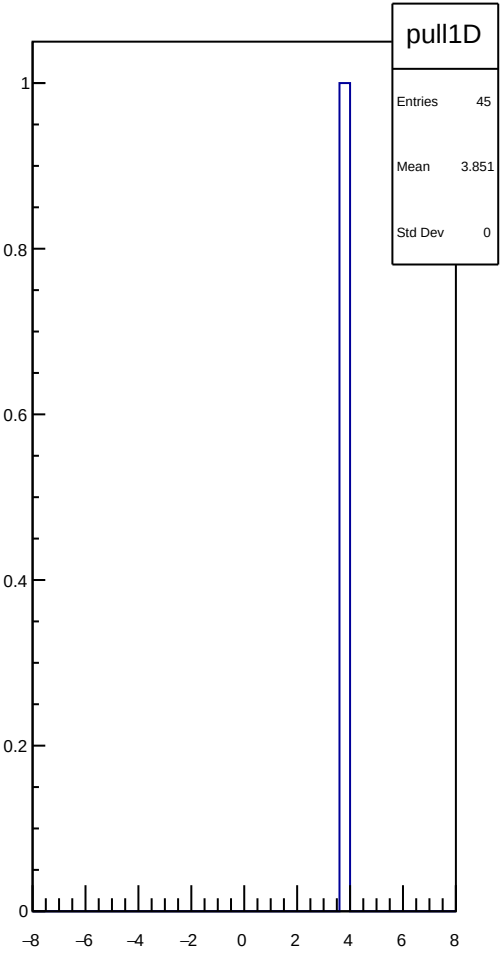

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 7.818 / 44
p0 −157.3 ± 355.6
4000
2000
0
−2000
−4000
−6000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 81.45
Std Dev 65.29
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 45
Mean 0.001723
Std Dev 0.4168
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

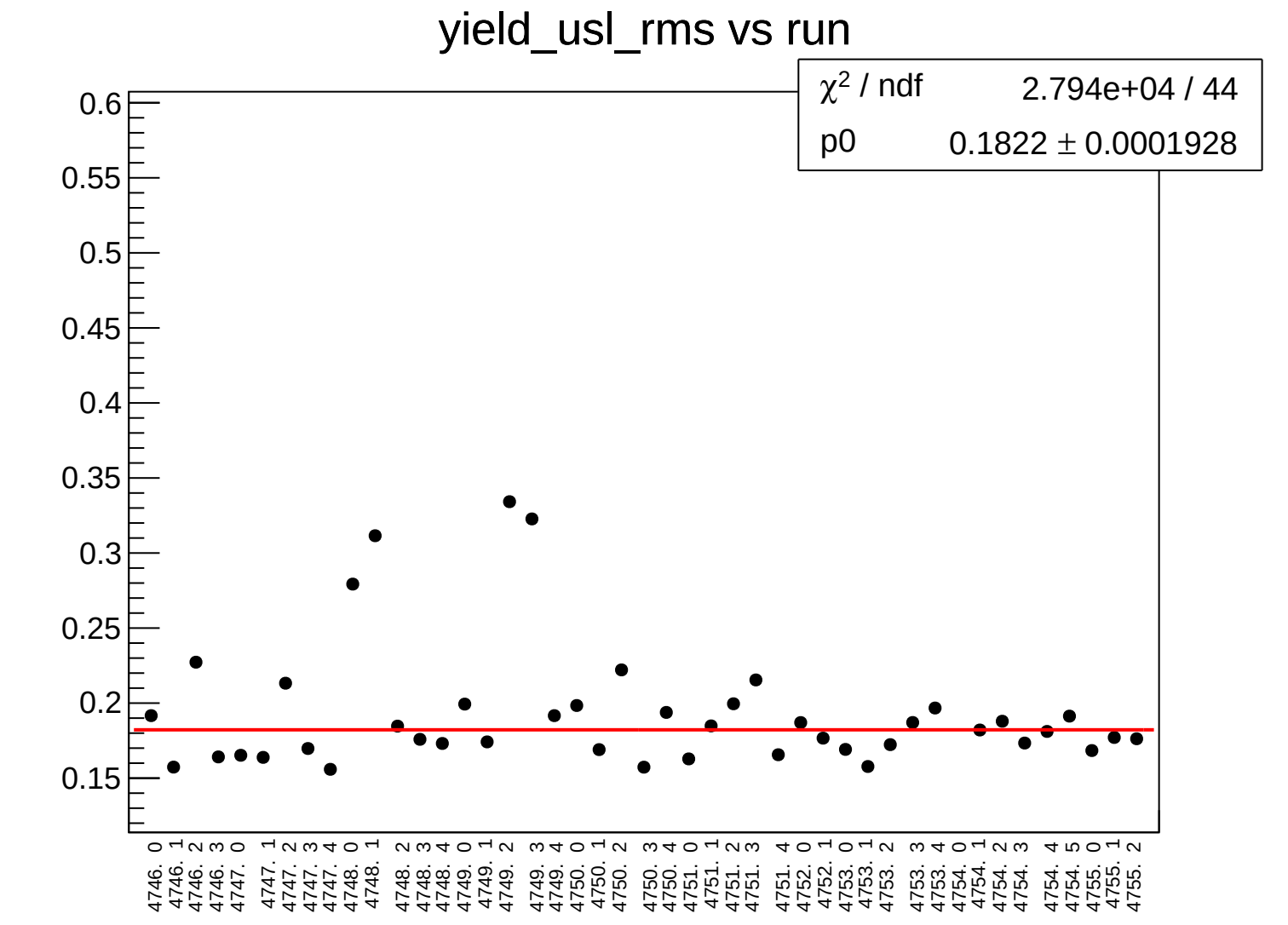

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1076 / 44
p0 241.2 ± 0.2514
290
280
270
260
250
240
230
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

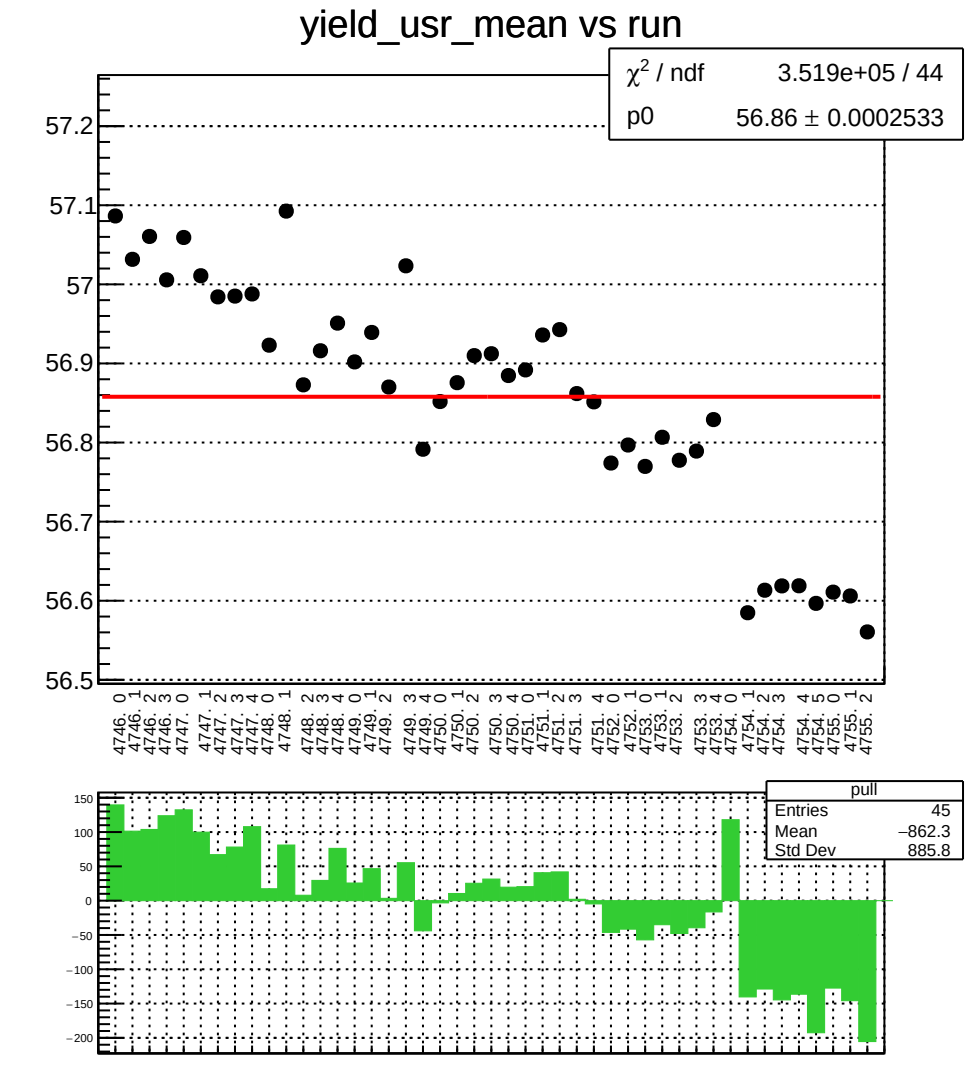

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 32.16 / 44
p0 30.81 ± 29.6
pull
Entries 45
Mean 4.76
Std Dev 21.61
pull1D
Entries 45
Mean 0.02659
Std Dev 0.845

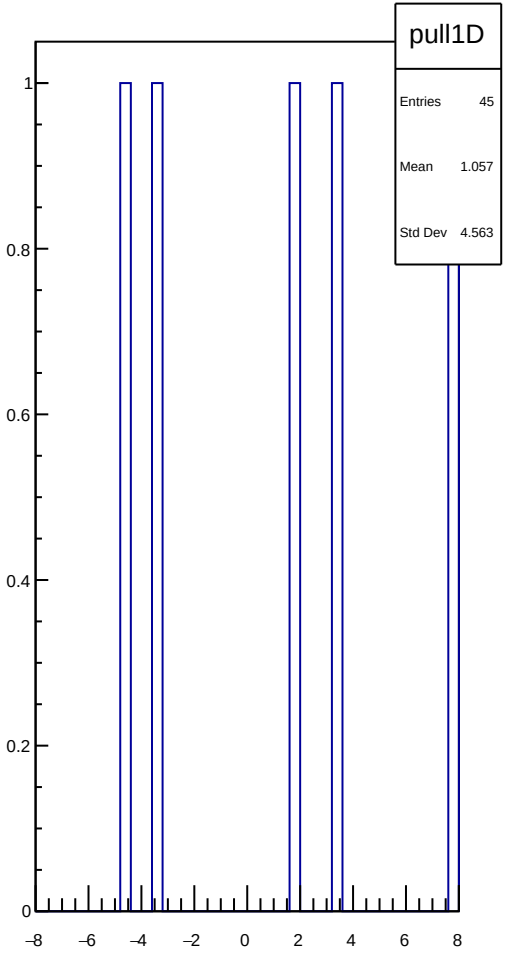

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2234 / 44
p0 20.06 ± 0.02093
22
21
20
19
18
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

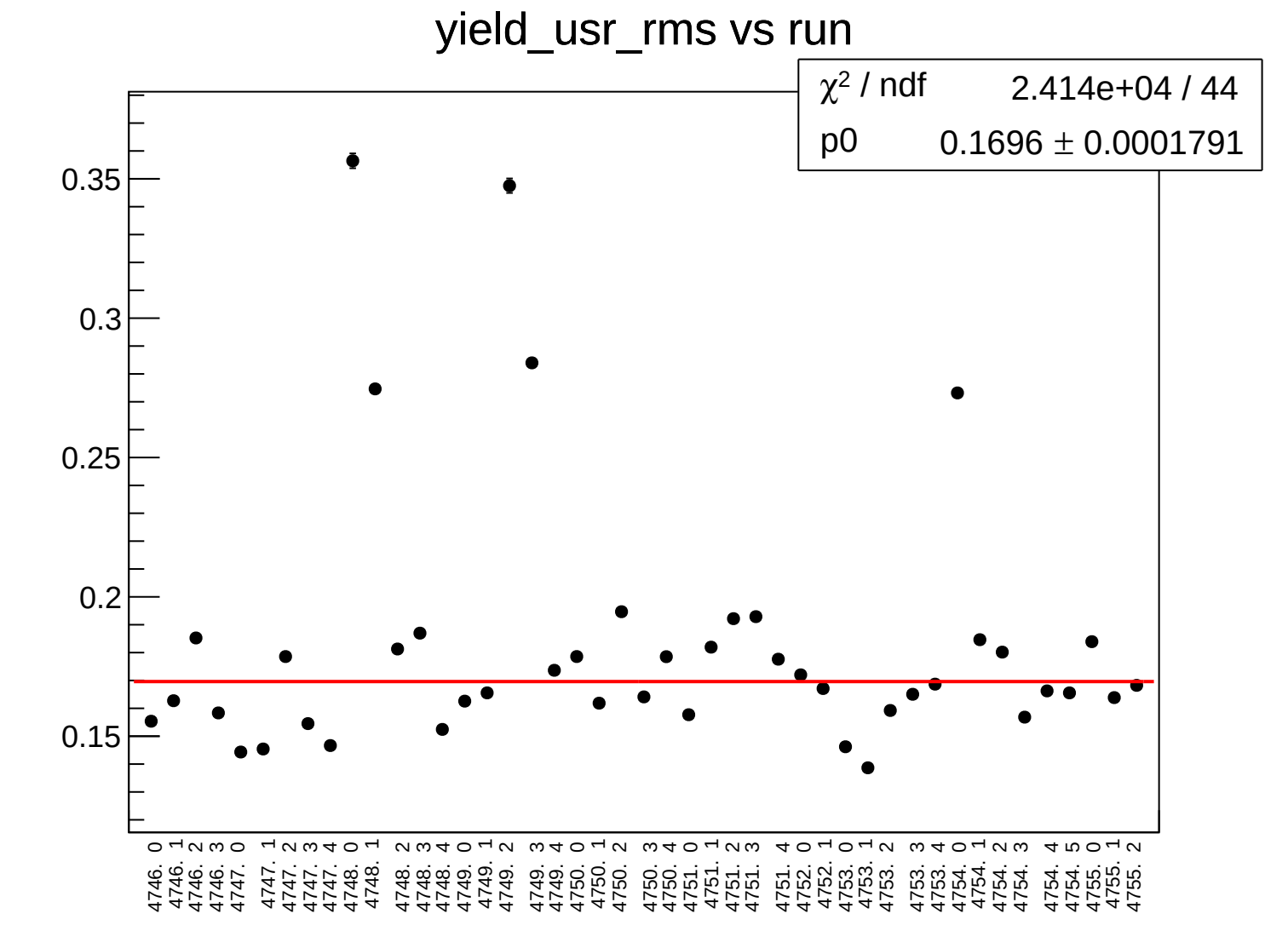

yield_usl_mean vs run
χ² / ndf 2.568e+05 / 44
p0 60.58 ± 0.0002727
61.1
61
60.9
60.8
60.7
60.6
60.5
60.4
60.3
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −552.7
Std Dev 575.6
150
100
50
0
−50
−100
−150

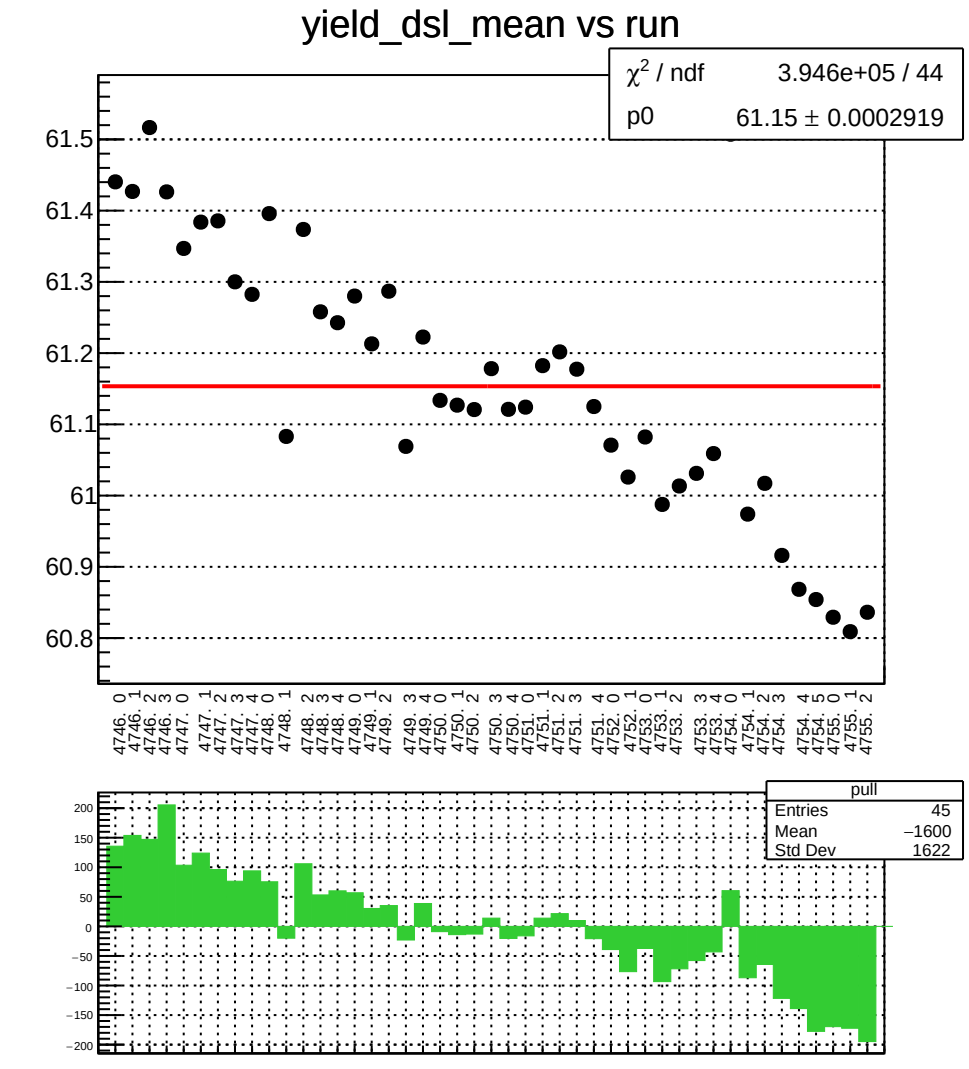

pull1D
Entries 45
Mean 3.851
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

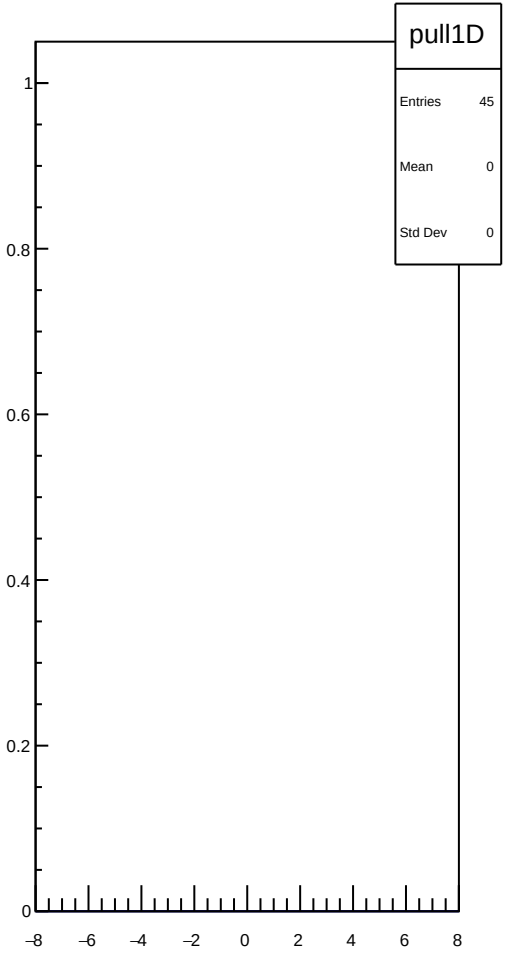

yield_usl_rms vs run
χ² / ndf 2.794e+04 / 44
p0 0.1822 ± 0.0001928
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

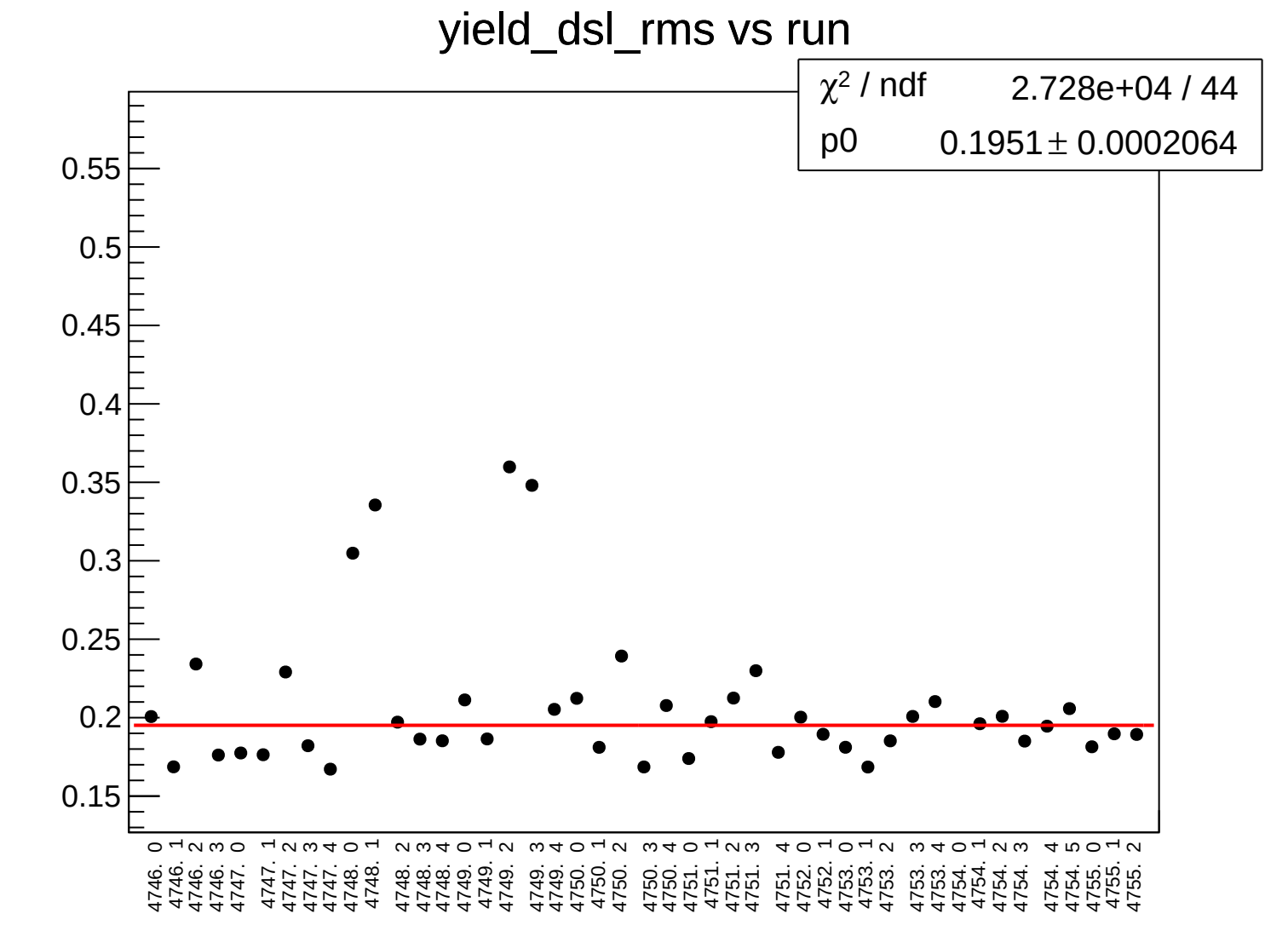

yield_usr_mean vs run
χ² / ndf 3.519e+05 / 44
p0 56.86 ± 0.0002533
57.2
57.1
57
56.9
56.8
56.7
56.6
56.5
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −862.3
Std Dev 885.8
150
100
50
0
−50
−100
−150
−200

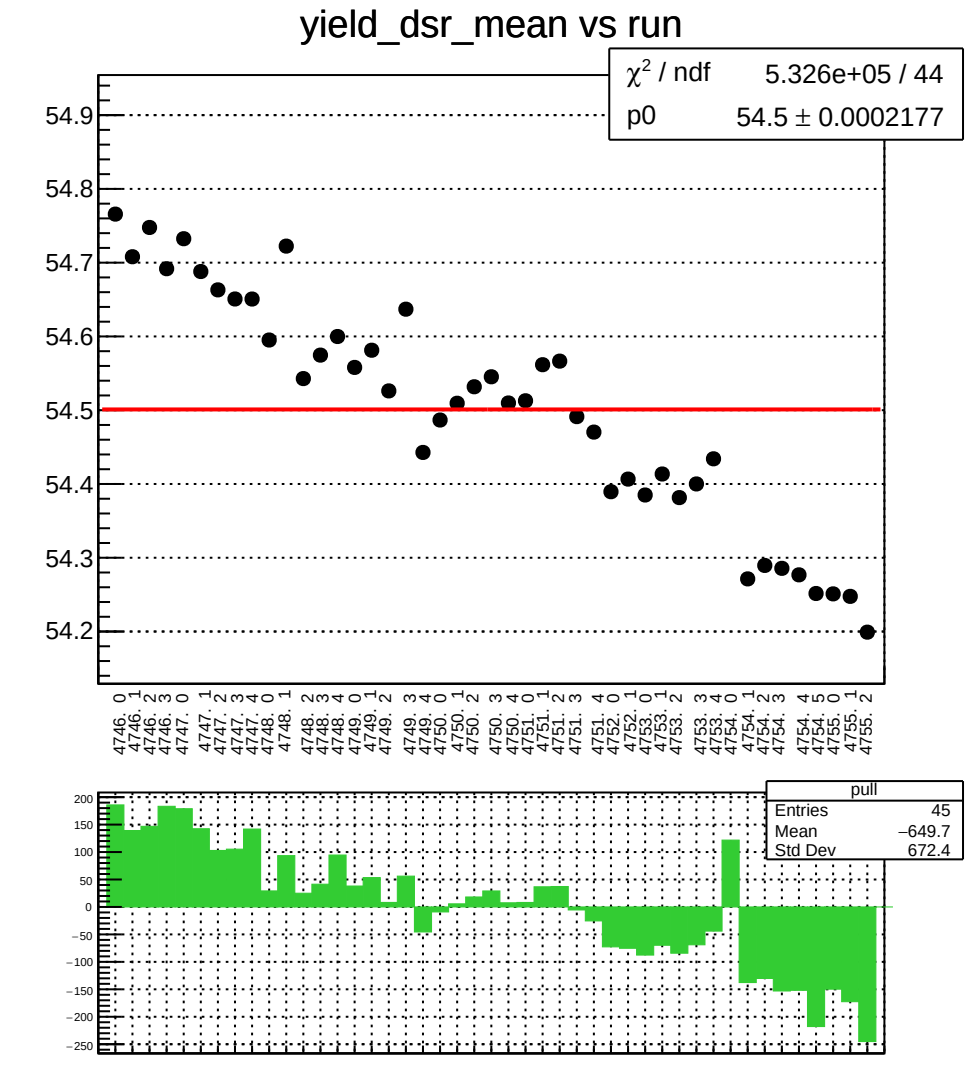

pull1D
Entries 45
Mean 1.057
Std Dev 4.563
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

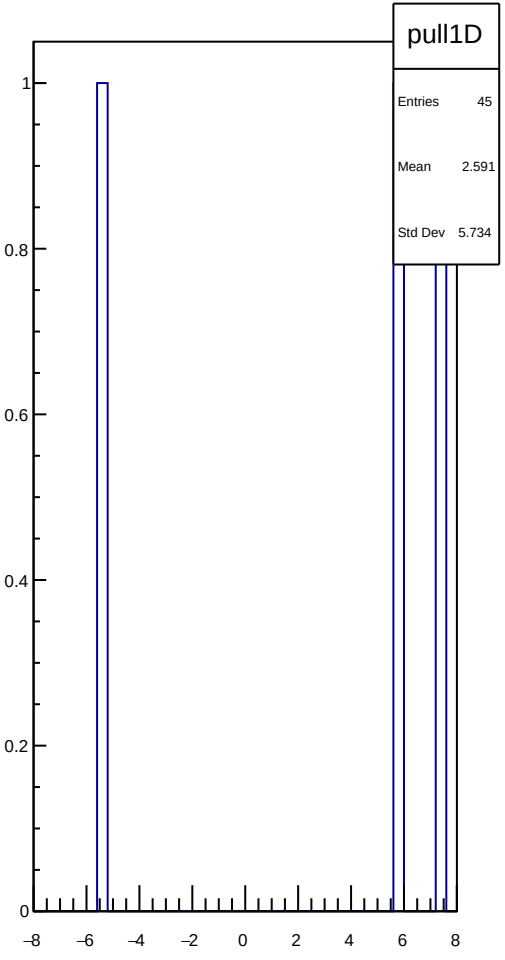

yield_usr_rms vs run
χ² / ndf 2.414e+04 / 44
p0 0.1696 ± 0.0001791
0.35
0.3
0.25
0.2
0.15
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

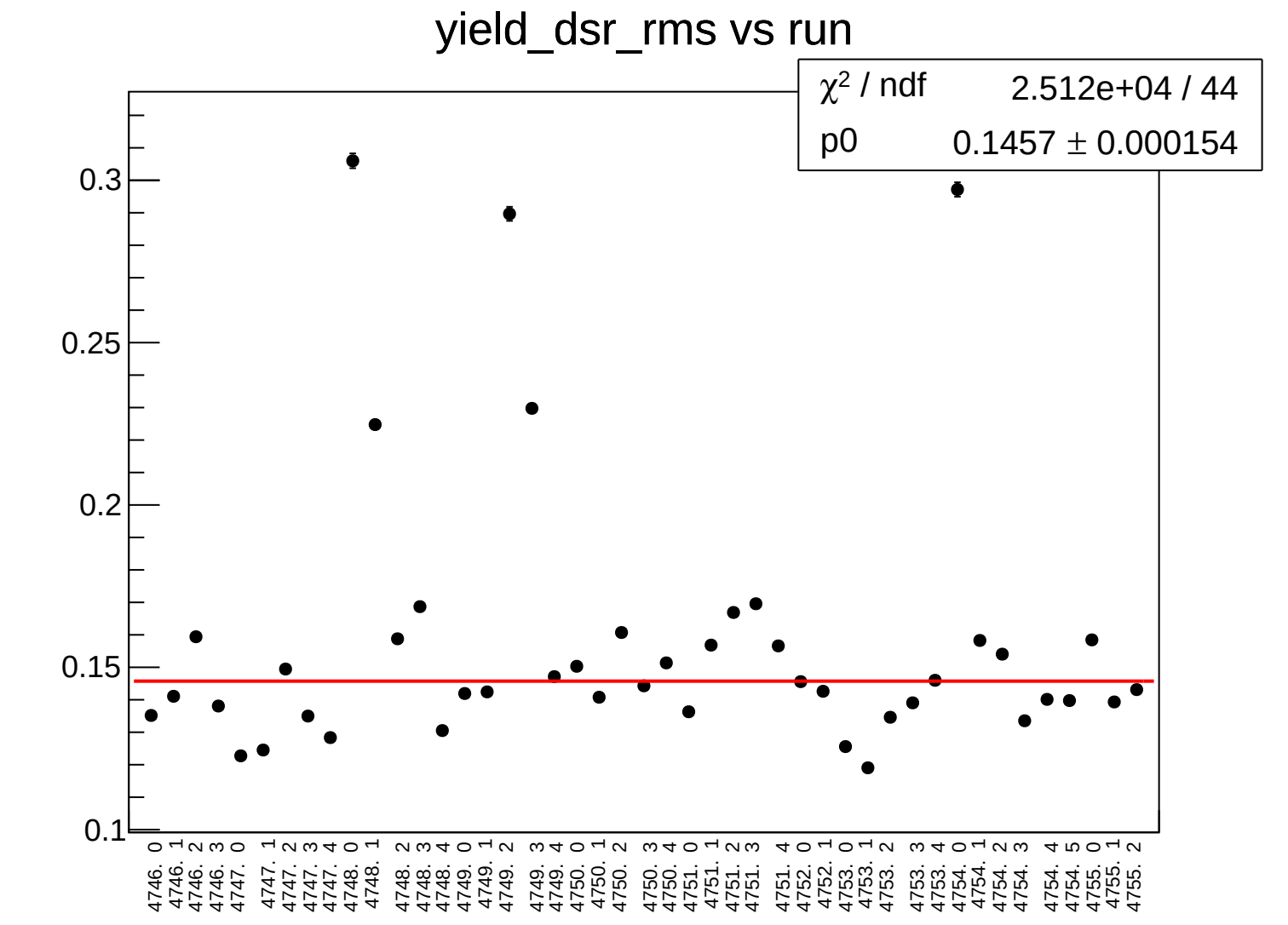

yield_dsl_mean vs run
χ² / ndf 3.946e+05 / 44
p0 61.15 ± 0.0002919
61.5
61.4
61.3
61.2
61.1
61
60.9
60.8
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −1600
Std Dev 1622
200
150
100
50
0
−50
−100
−150
−200

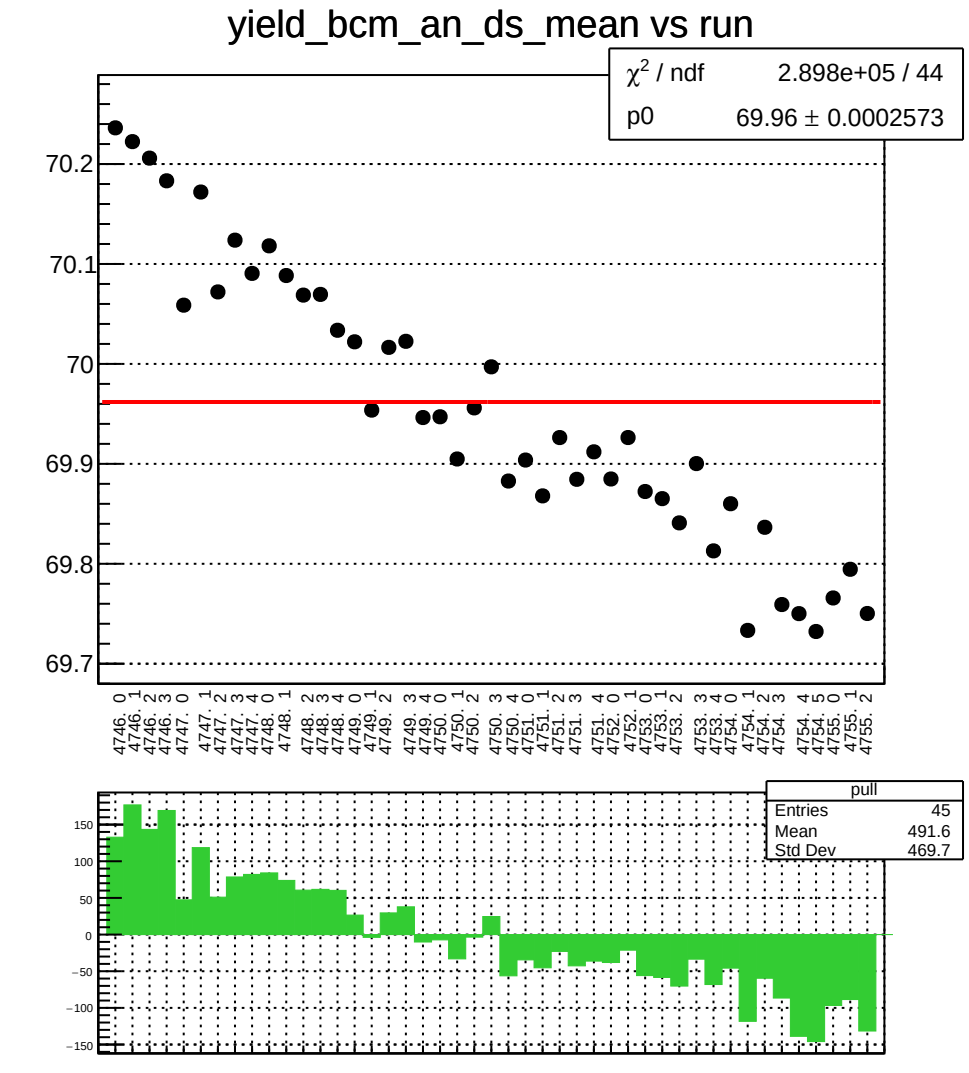

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

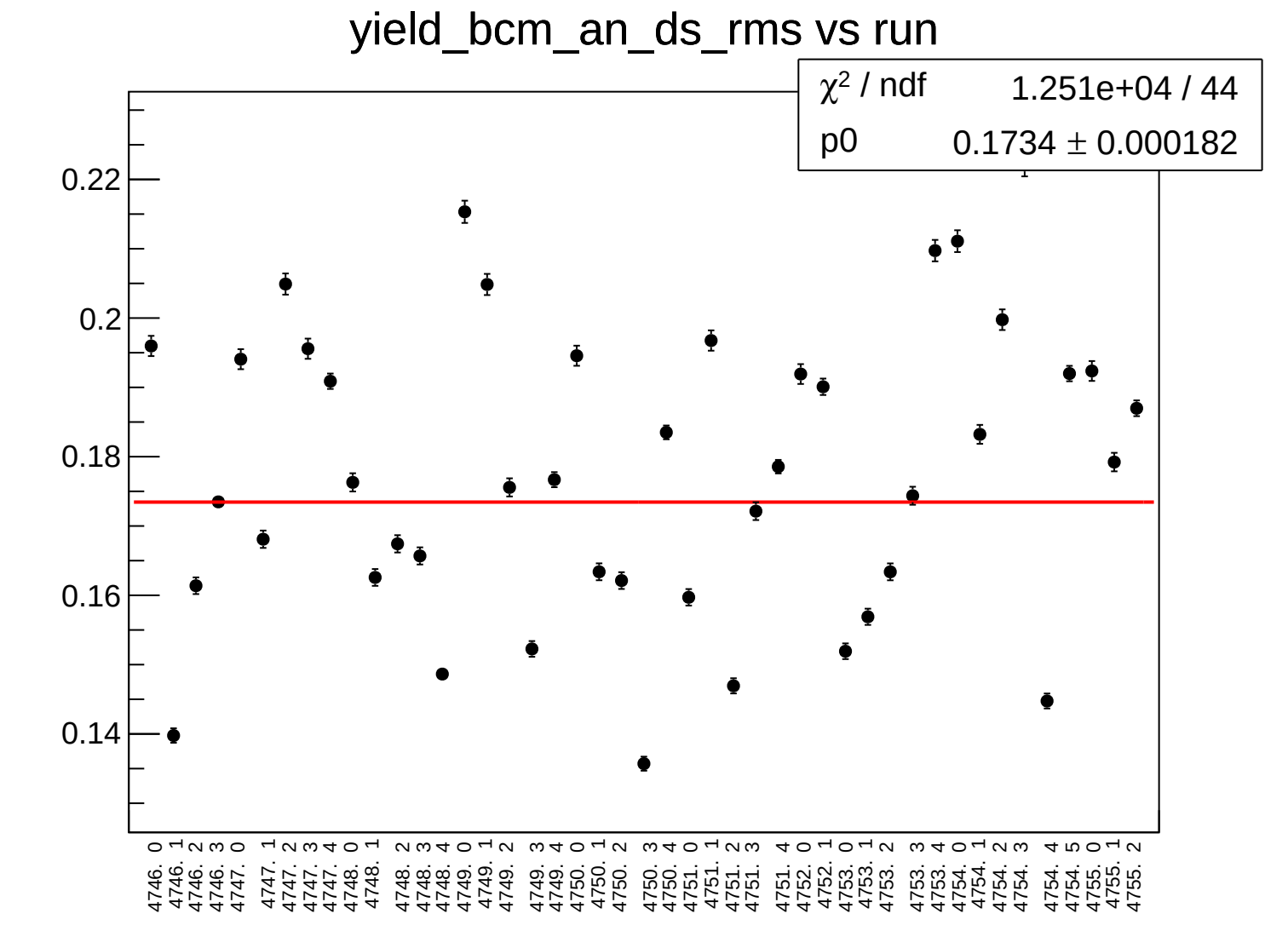

yield_dsl_rms vs run
χ² / ndf 2.728e+04 / 44
p0 0.1951 ± 0.0002064
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

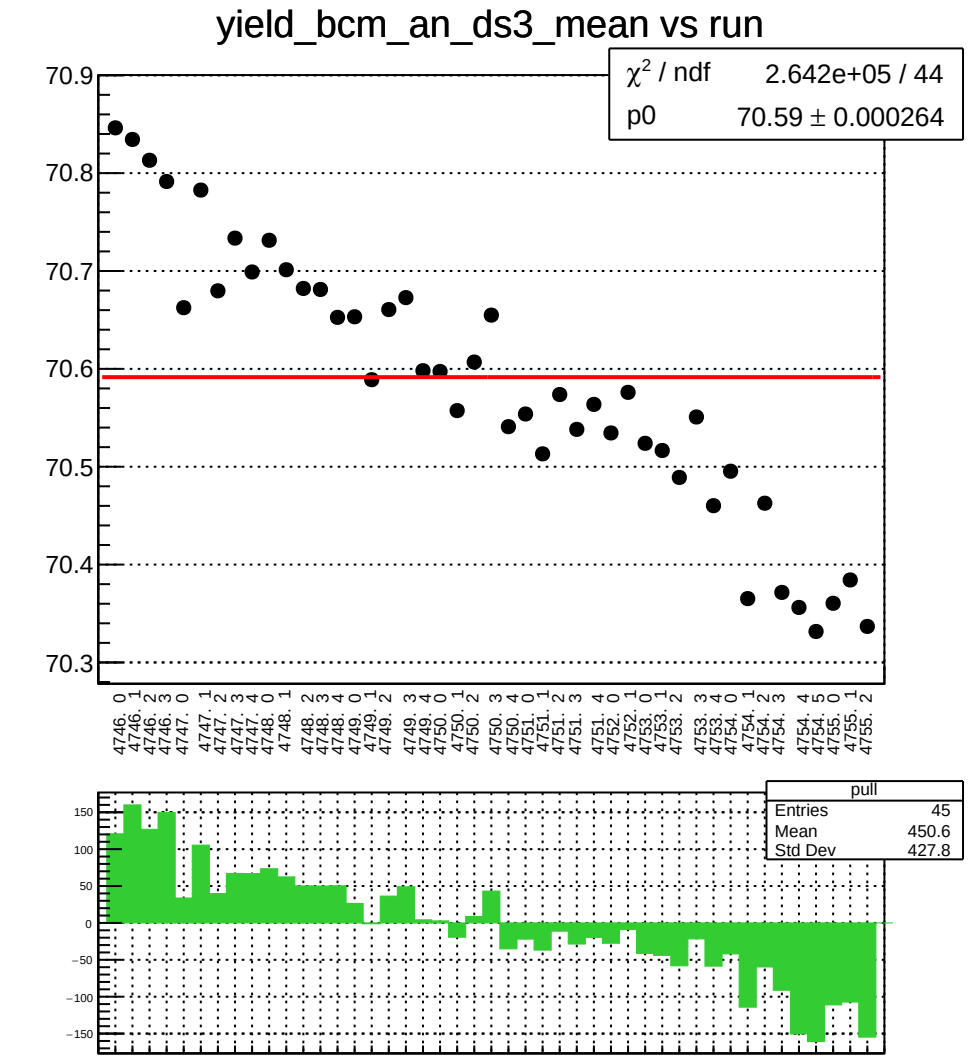

yield_dsr_mean vs run
χ² / ndf 5.326e+05 / 44
p0 54.5 ± 0.0002177
54.9
54.8
54.7
54.6
54.5
54.4
54.3
54.2
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −649.7
Std Dev 672.4
200
150
100
50
0
−50
−100
−150
−200
−250

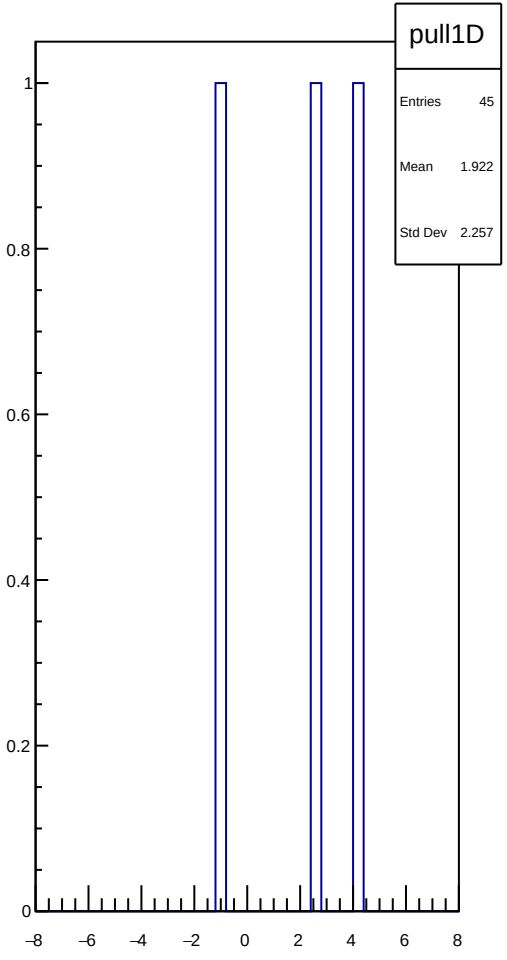

pull1D
Entries 45
Mean 2.591
Std Dev 5.734
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

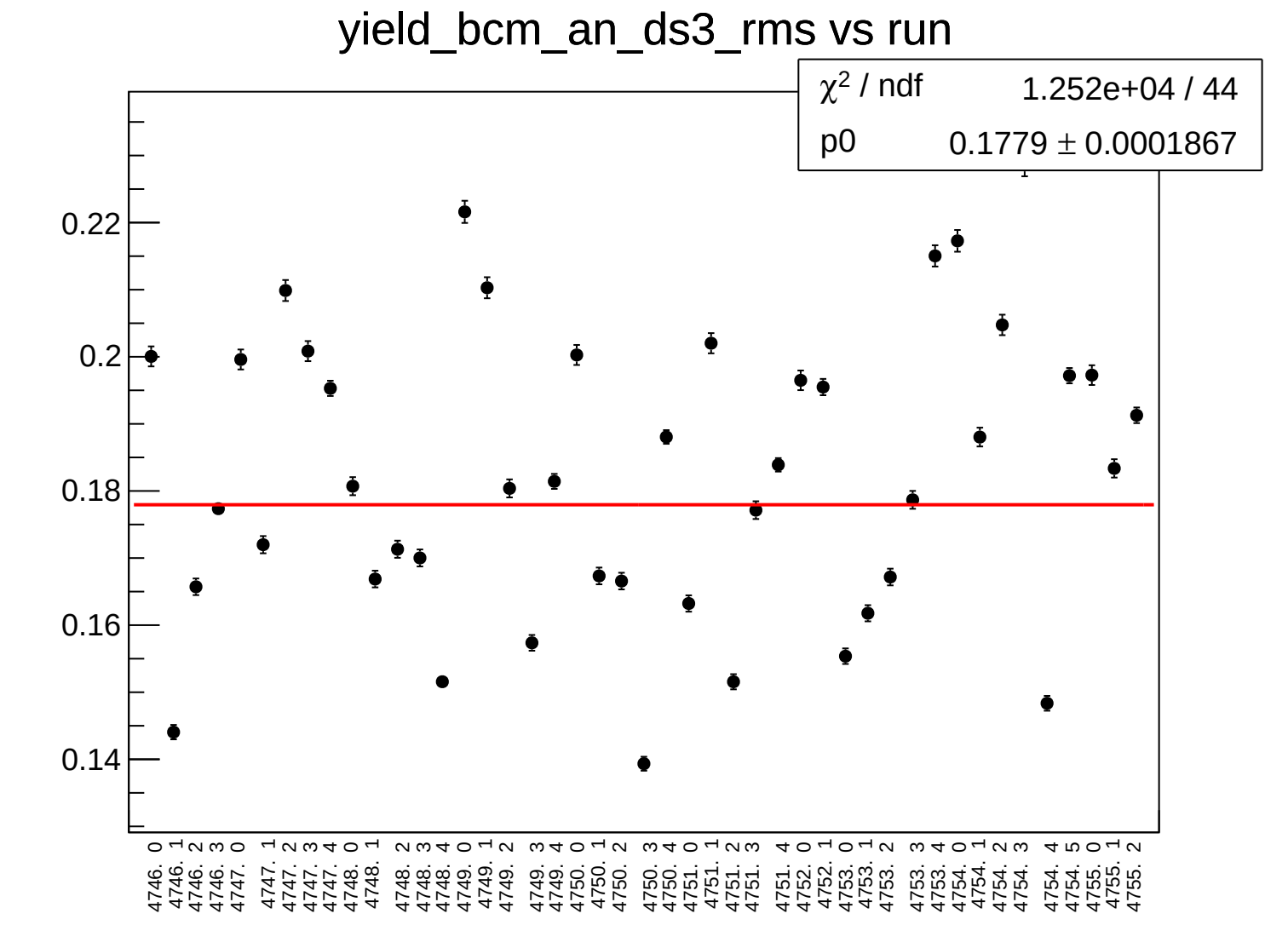

yield_dsr_rms vs run
χ² / ndf 2.512e+04 / 44
p0 0.1457 ± 0.000154
0.3
0.25
0.2
0.15
0.1
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

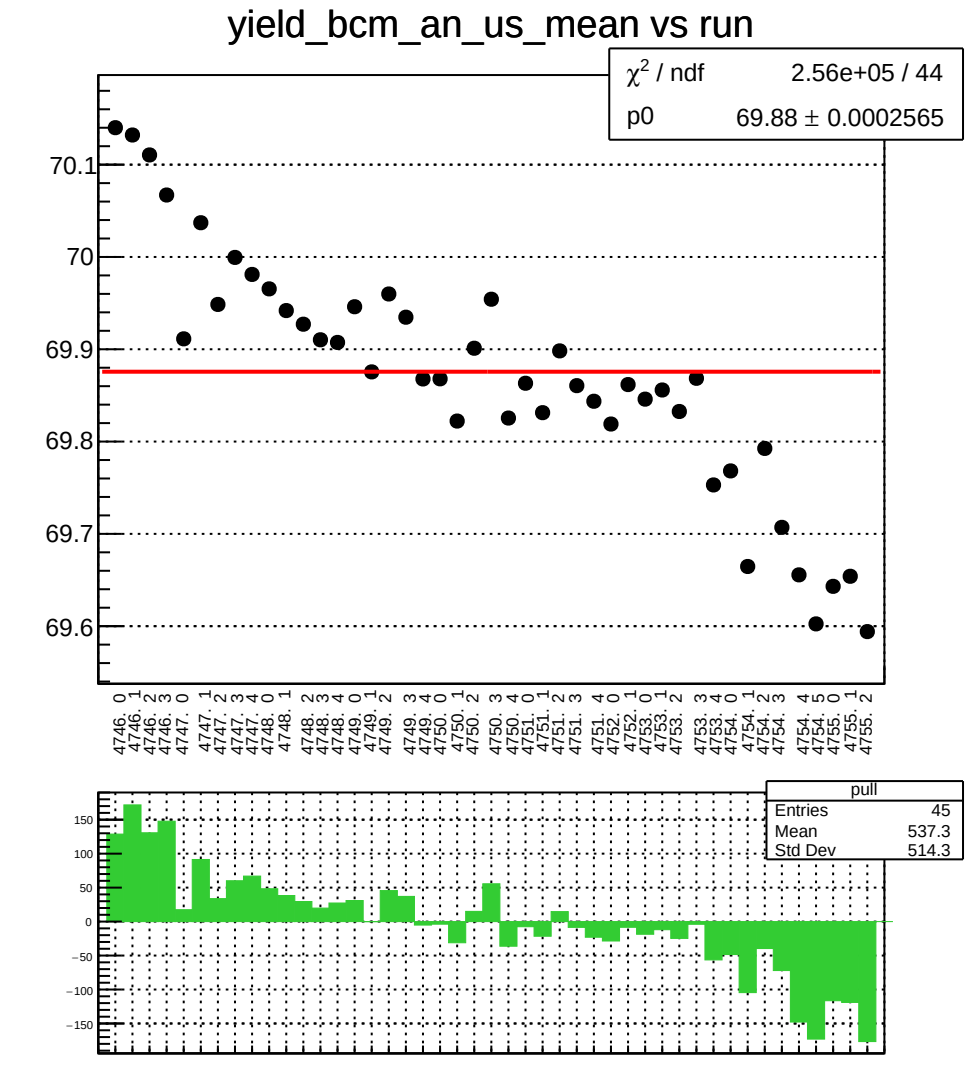

yield_bcm_an_ds_mean vs run
χ² / ndf 2.898e+05 / 44
p0 69.96 ± 0.0002573
70.2
70.1
70
69.9
69.8
69.7
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 491.6
Std Dev 469.7
150
100
50
0
−50
−100
−150
pull1D
Entries 45
Mean −4.809
Std Dev 1.703
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

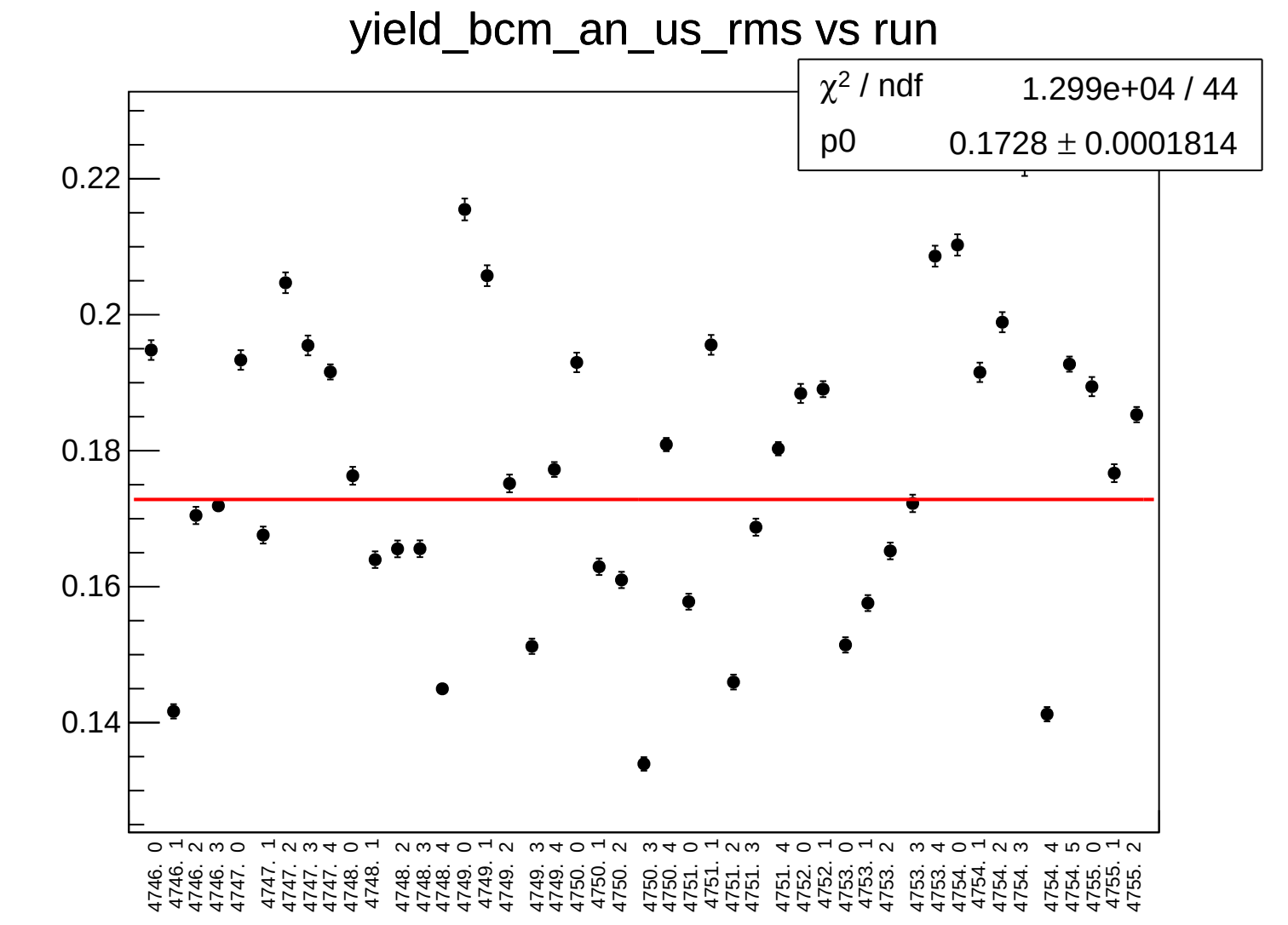

yield_bcm_an_ds_rms vs run
χ² / ndf 1.251e+04 / 44
p0 0.1734 ± 0.000182
0.22
0.2
0.18
0.16
0.14
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

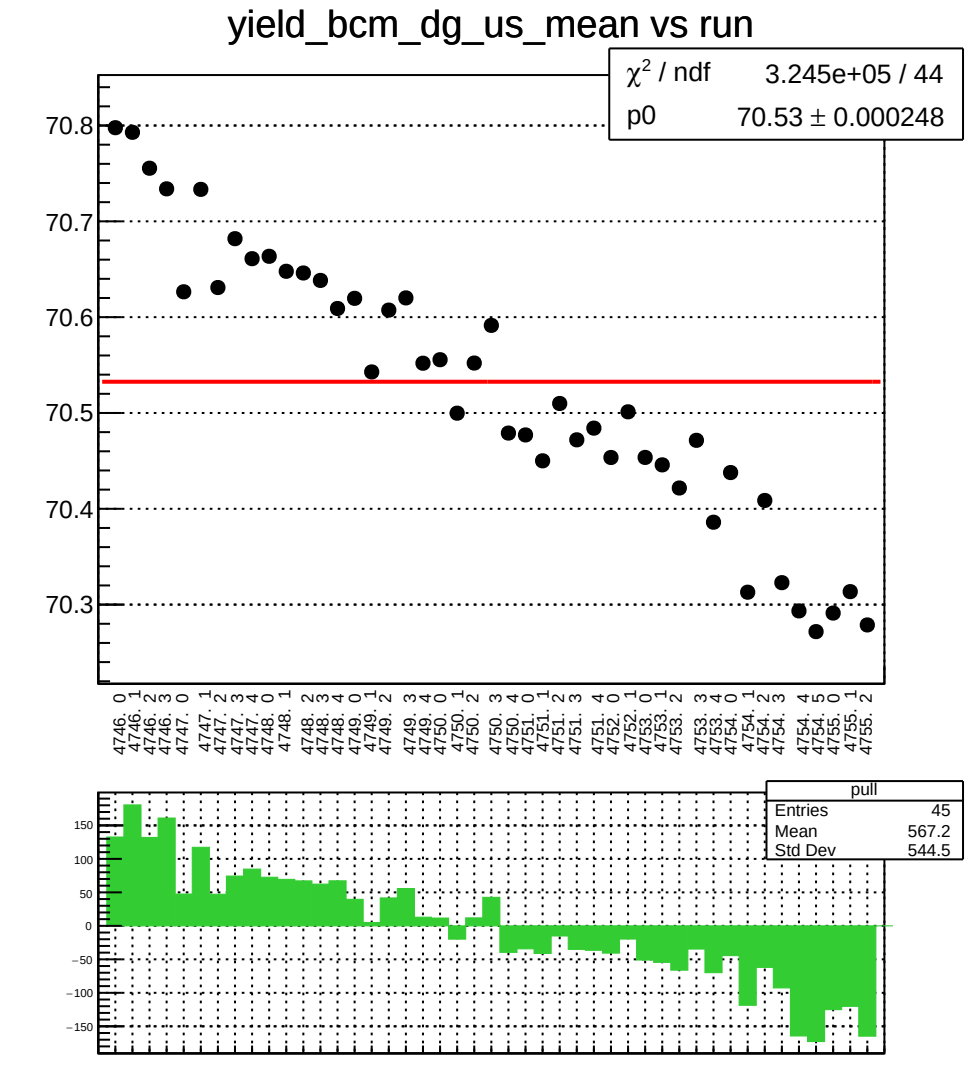

yield_bcm_an_ds3_mean vs run
χ² / ndf 2.642e+05 / 44
p0 70.59 ± 0.000264
70.9
70.8
70.7
70.6
70.5
70.4
70.3
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 450.6
Std Dev 427.8
150
100
50
0
−50
−100
−150

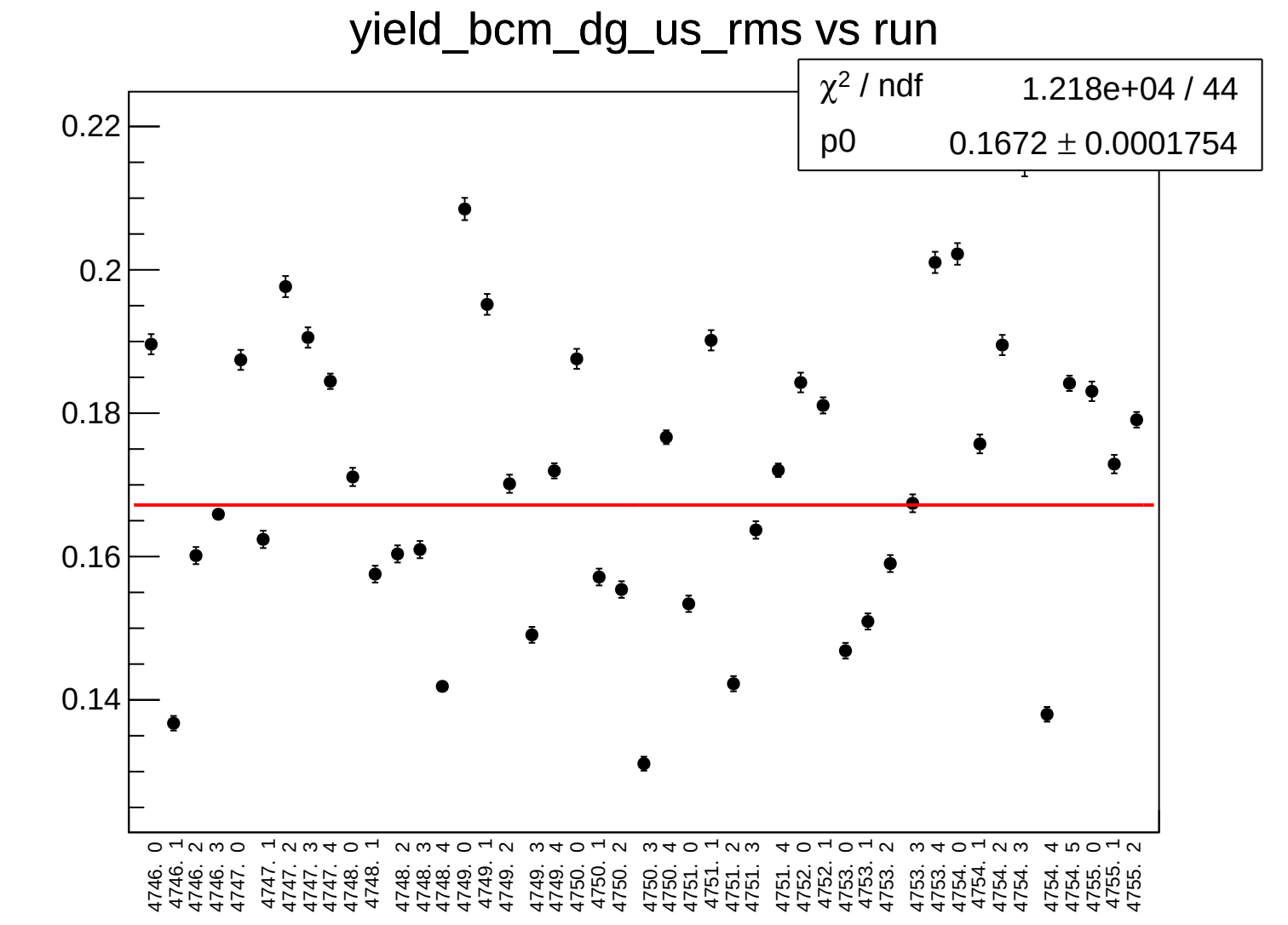

pull1D
Entries 45
Mean 1.922
Std Dev 2.257
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

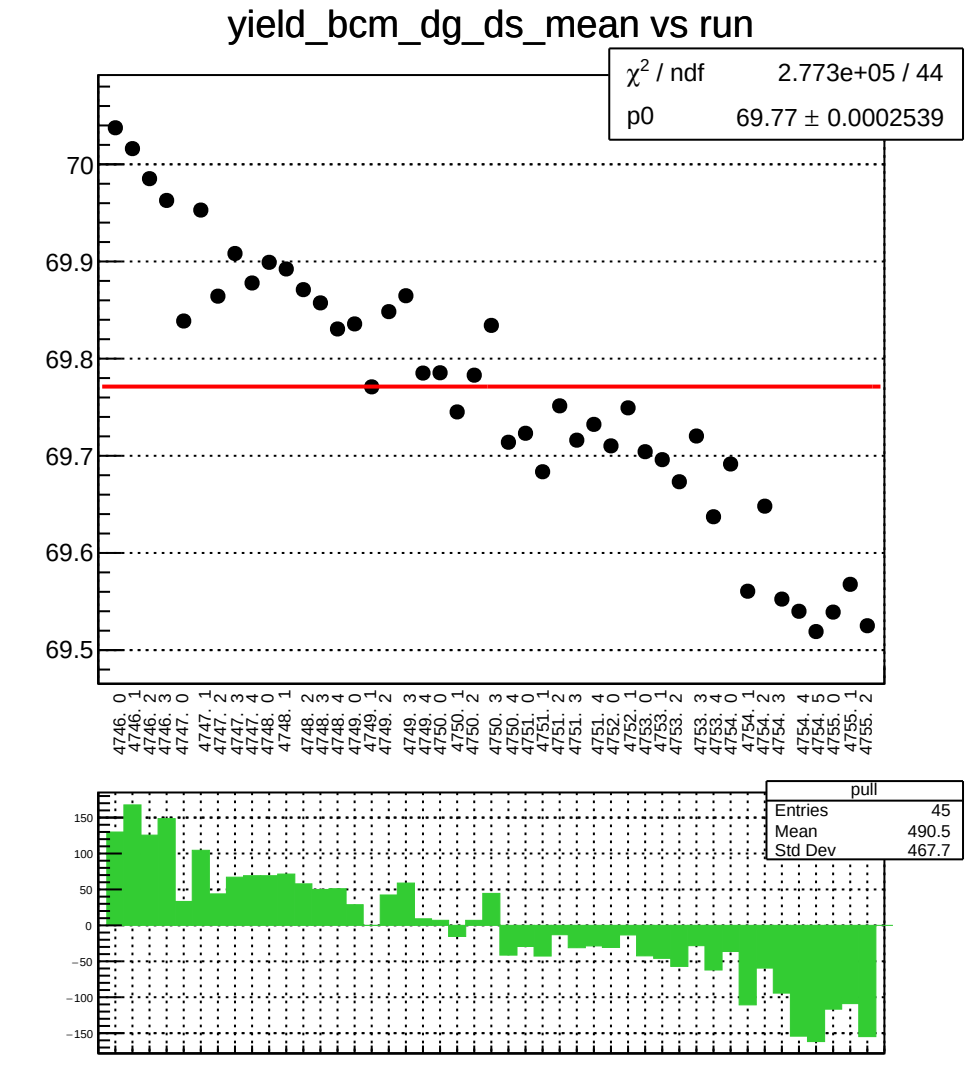

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.252e+04 / 44
p0 0.1779 ± 0.0001867
0.22
0.2
0.18
0.16
0.14
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

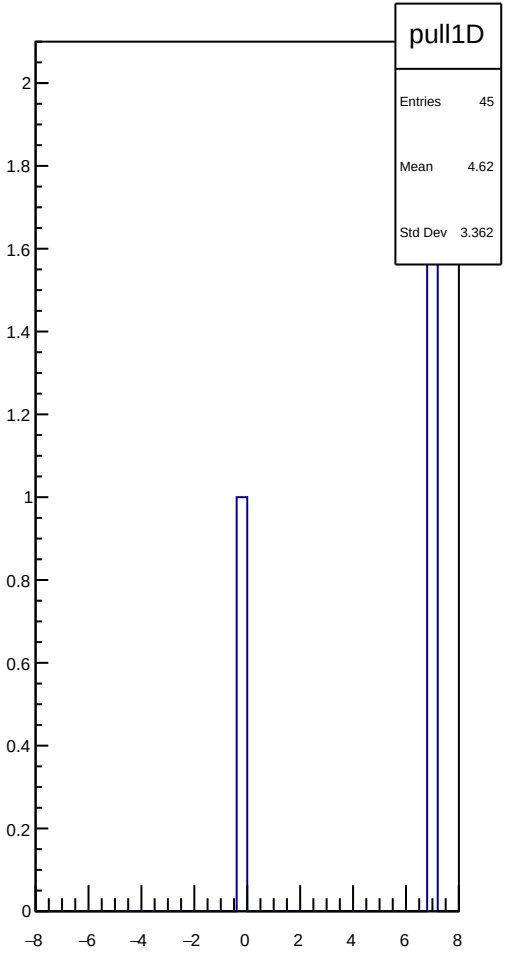

yield_bcm_an_us_mean vs run
χ² / ndf 2.56e+05 / 44
p0 69.88 ± 0.0002565
70.1
70
69.9
69.8
69.7
69.6
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 537.3
Std Dev 514.3
150
100
50
0
−50
−100
−150
pull1D
Entries 45
Mean −4.084
Std Dev 2.404
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

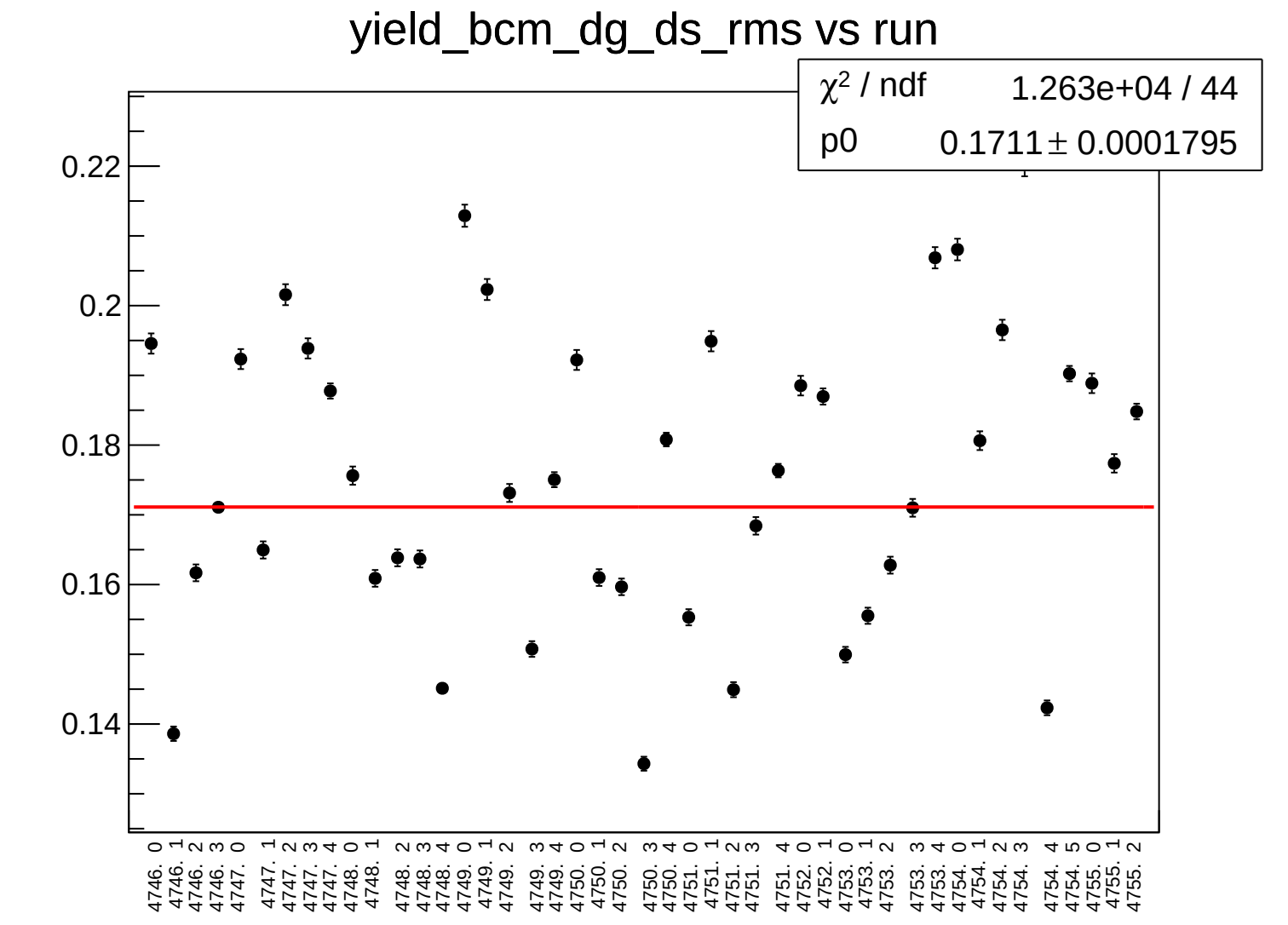

yield_bcm_an_us_rms vs run
χ2 / ndf 1.299e+04 / 44
p0 0.1728 ± 0.0001814
0.22
0.2
0.18
0.16
0.14
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

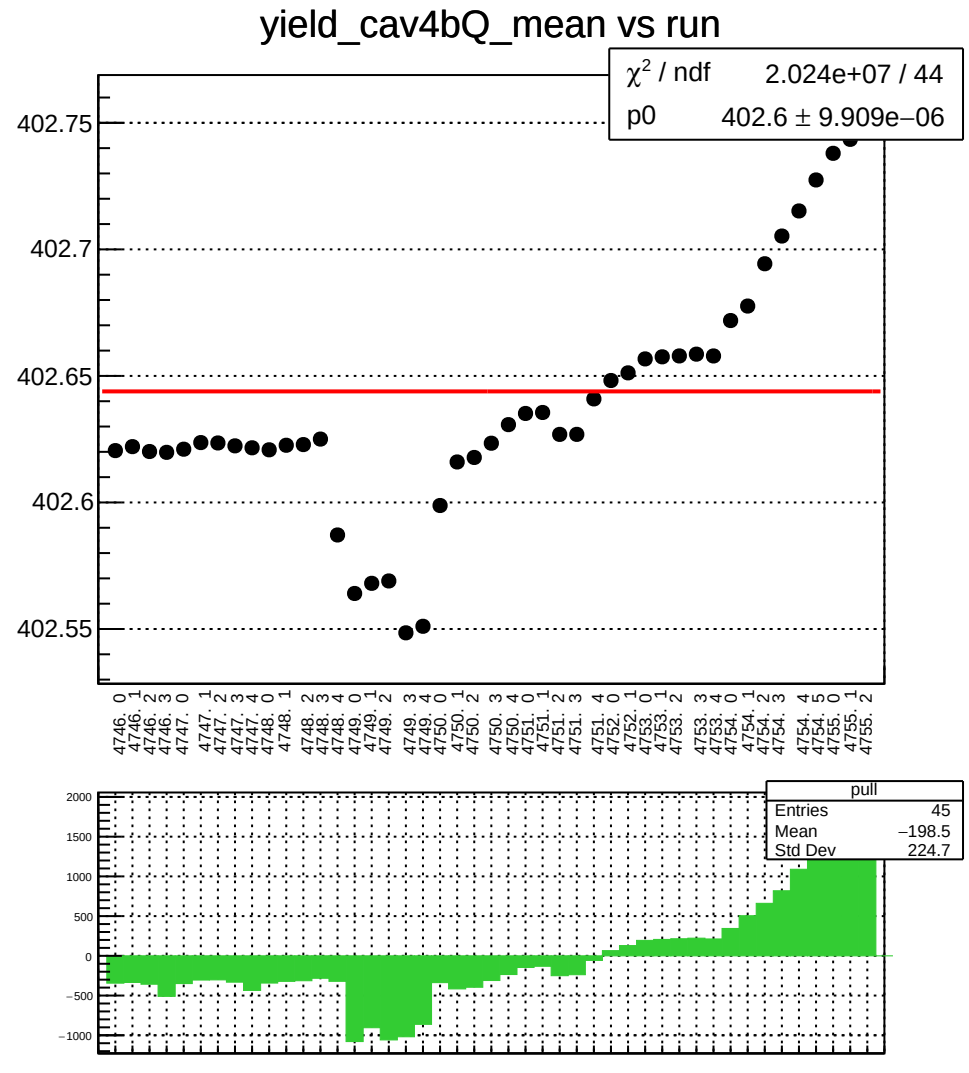

yield_bcm_dg_us_mean vs run
χ² / ndf 3.245e+05 / 44
p0 70.53 ± 0.000248
70.8
70.7
70.6
70.5
70.4
70.3
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 567.2
Std Dev 544.5
150
100
50
0
−50
−100
−150
pull1D
Entries 45
Mean 4.979
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

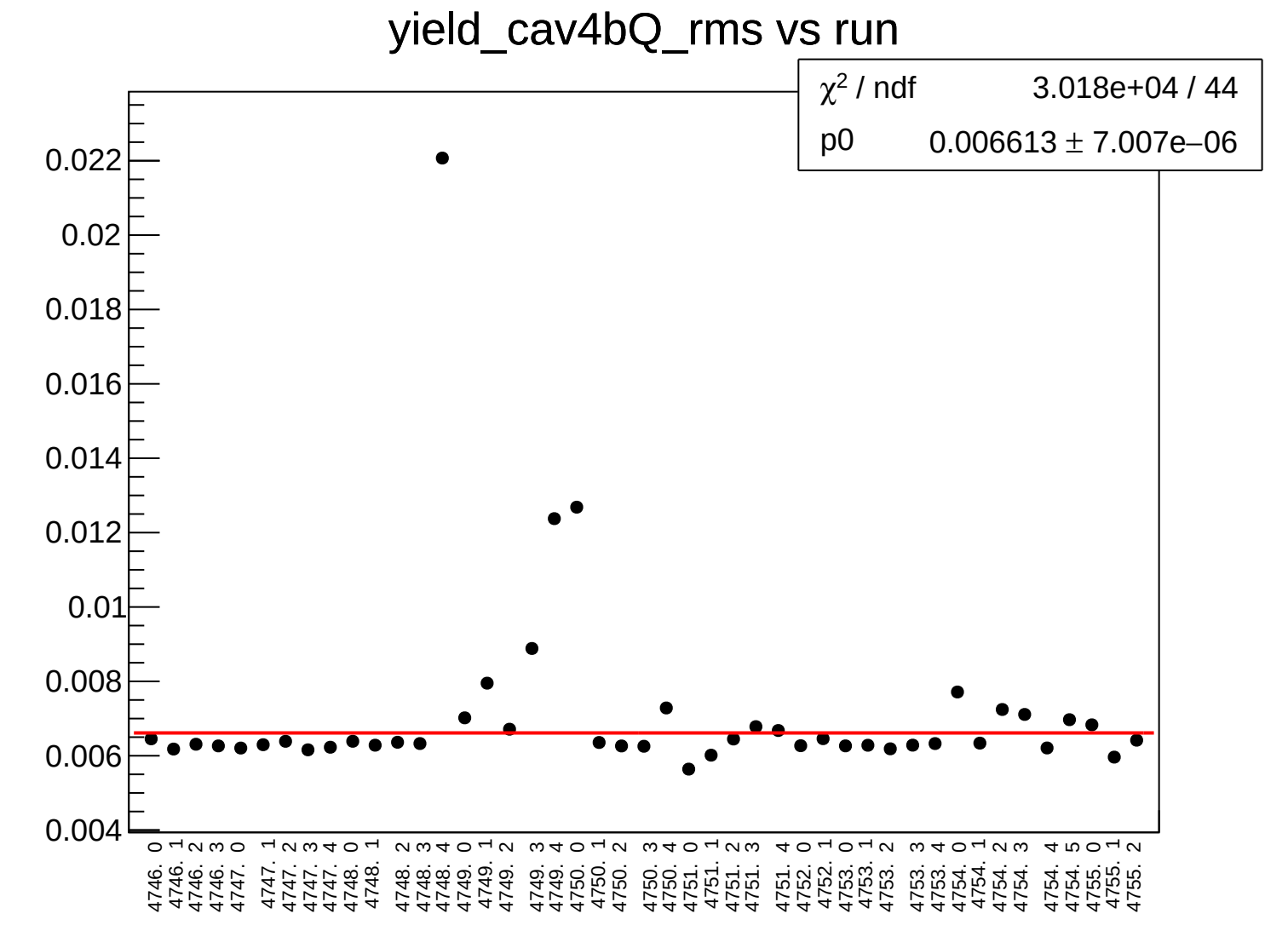

yield_bcm_dg_us_rms vs run
χ² / ndf 1.218e+04 / 44
p0 0.1672 ± 0.0001754
0.22
0.2
0.18
0.16
0.14
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

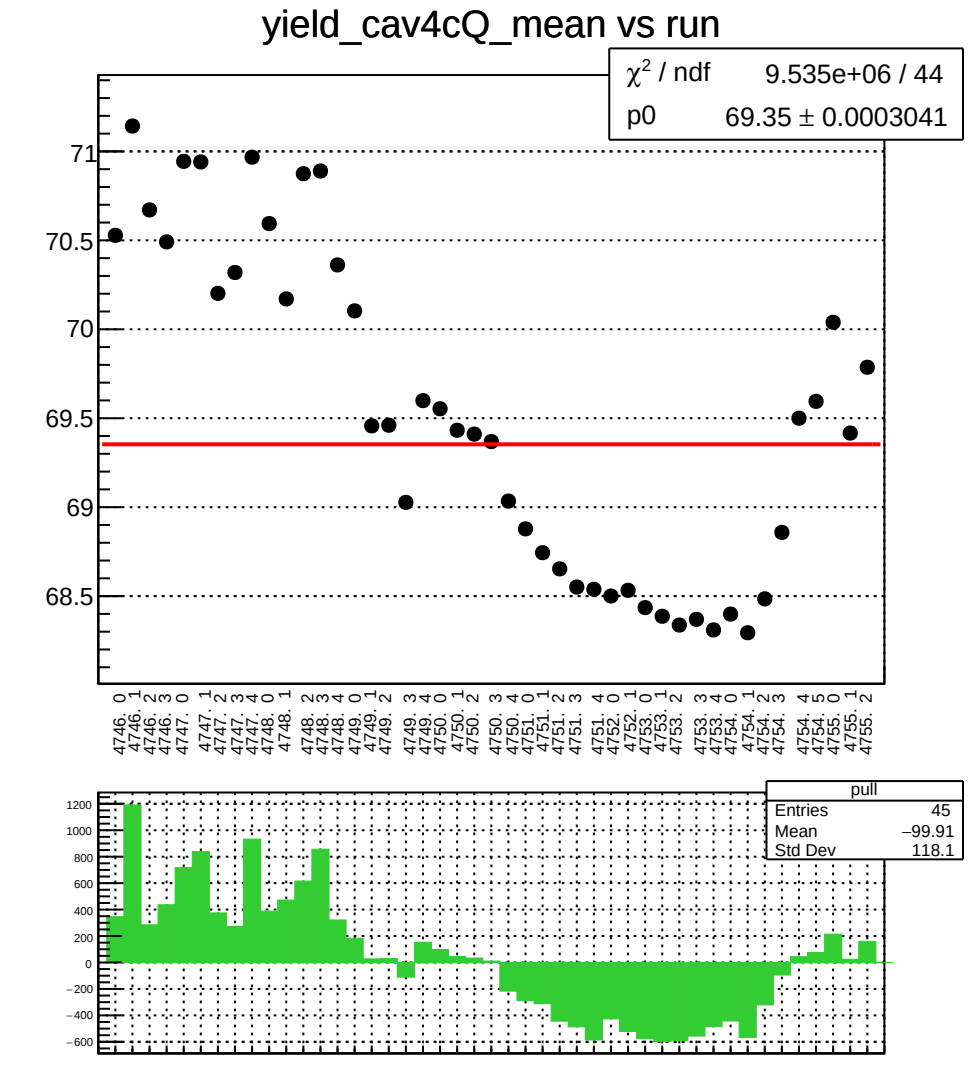

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.773e+05 / 44
p0 69.77 ± 0.0002539
70
69.9
69.8
69.7
69.6
69.5
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 490.5
Std Dev 467.7
150
100
50
0
−50
−100
−150

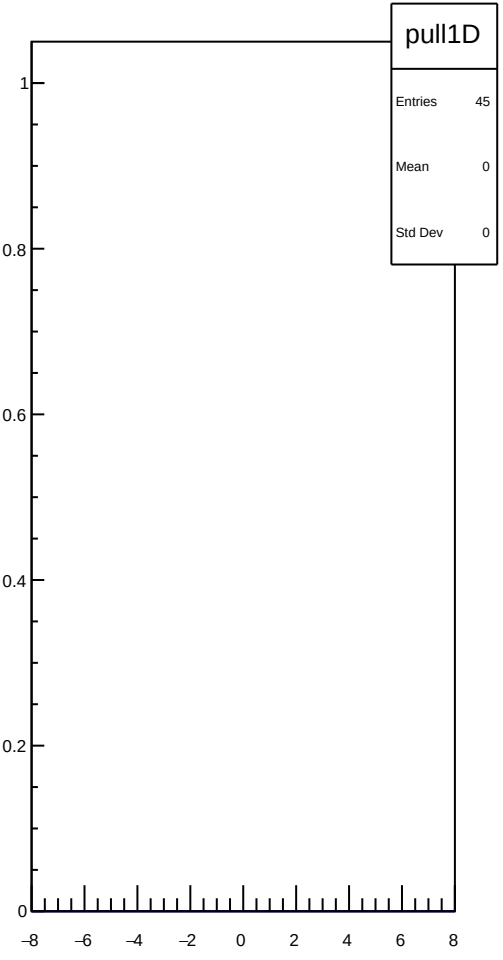

pull1D
Entries 45
Mean 4.62
Std Dev 3.362
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

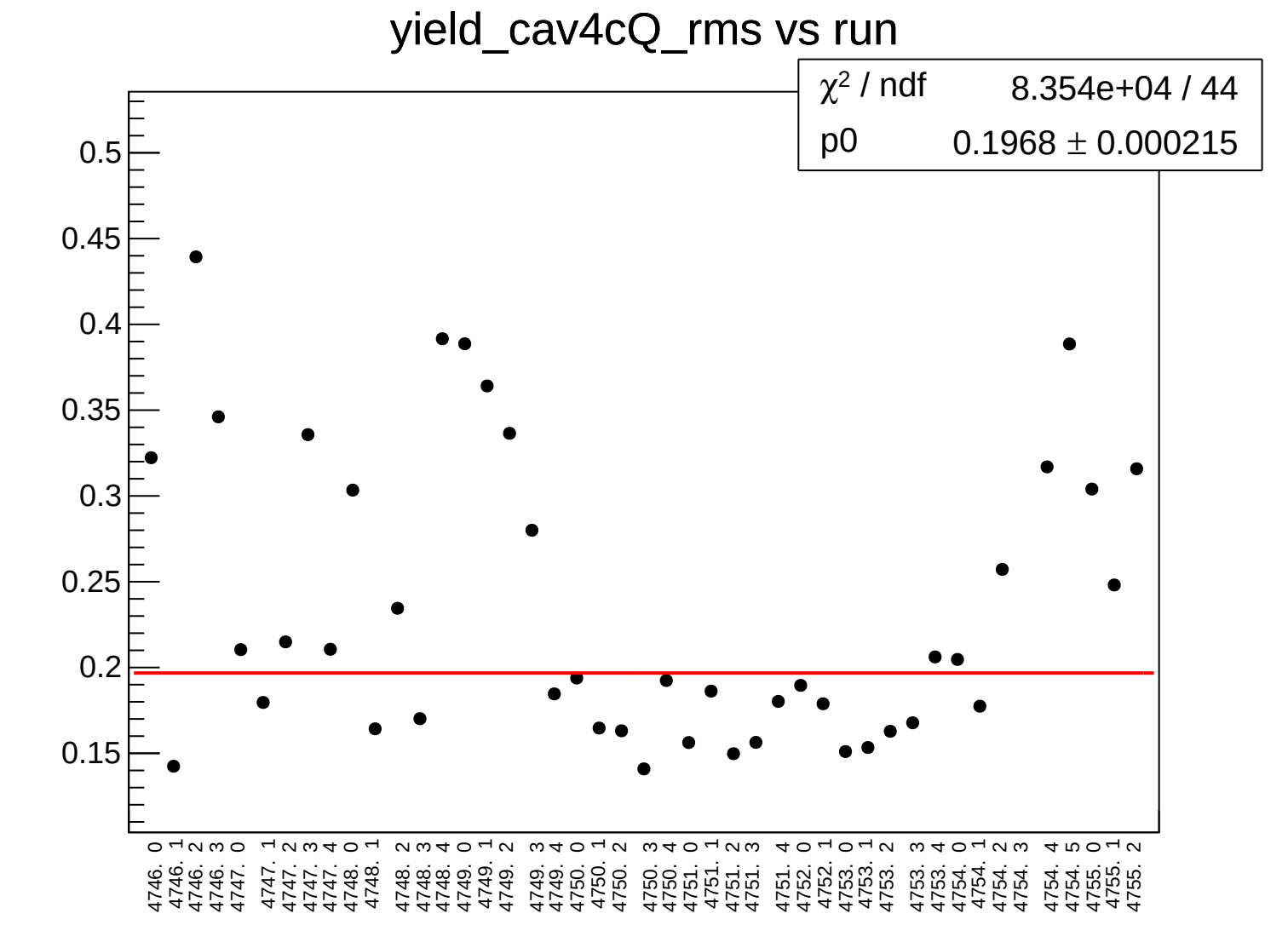

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.263e+04 / 44
p0 0.1711 ± 0.0001795
0.22
0.2
0.18
0.16
0.14
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

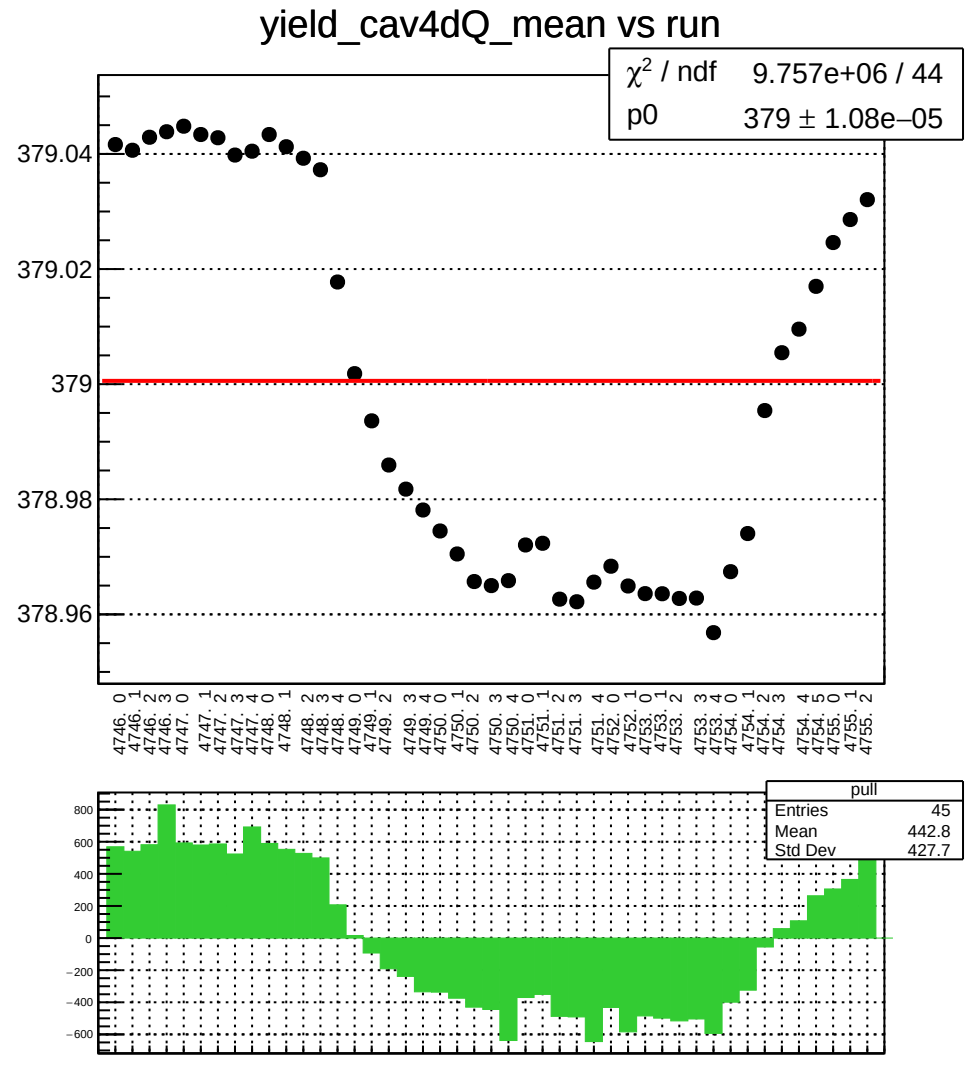

yield_cav4bQ_mean vs run
χ² / ndf 2.024e+07 / 44
p0 402.6 ± 9.909e−06
402.75
402.7
402.65
402.6
402.55
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −198.5
Std Dev 224.7
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

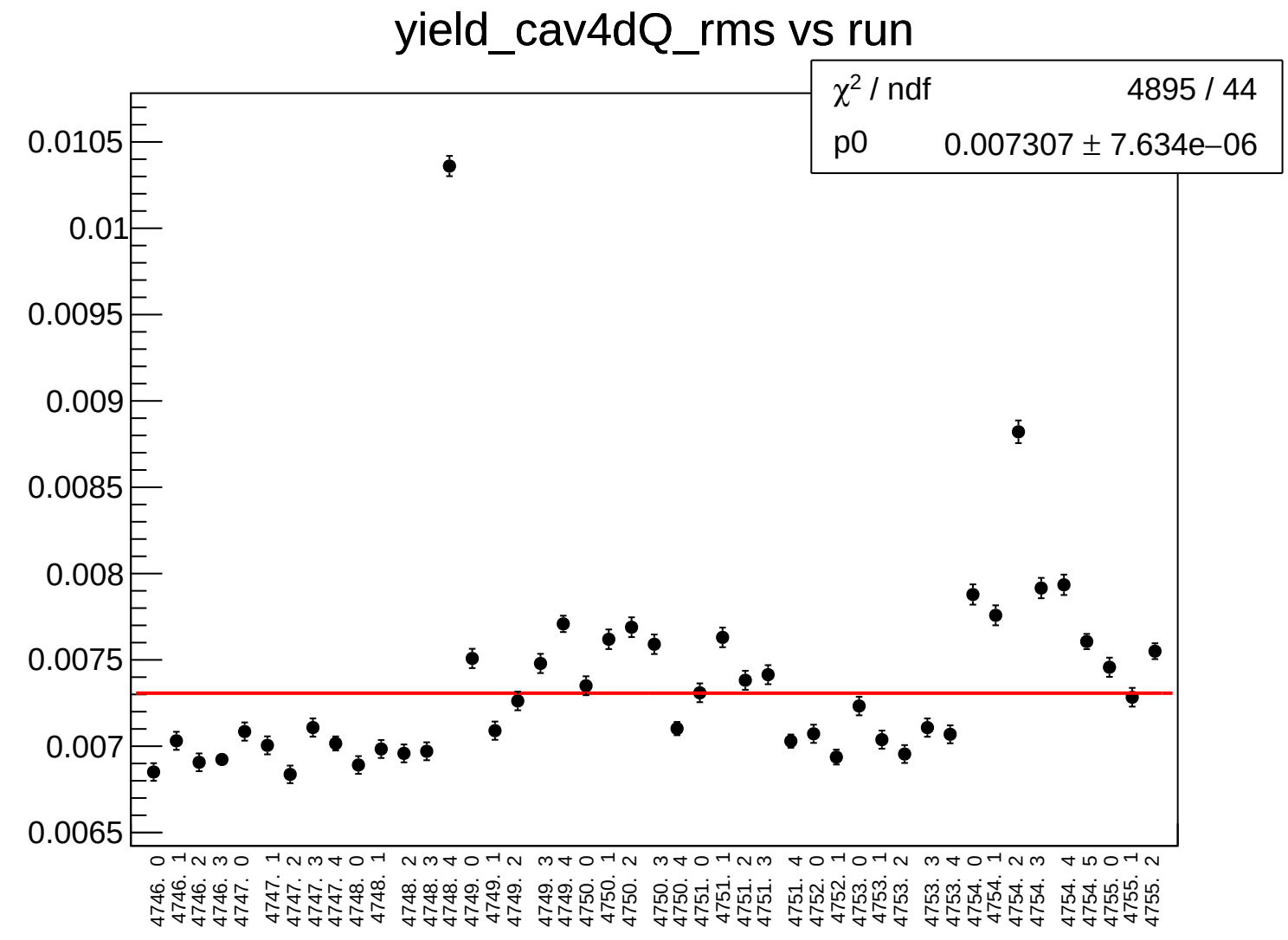

yield_cav4bQ_rms vs run
χ² / ndf 3.018e+04 / 44
p0 0.006613 ± 7.007e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

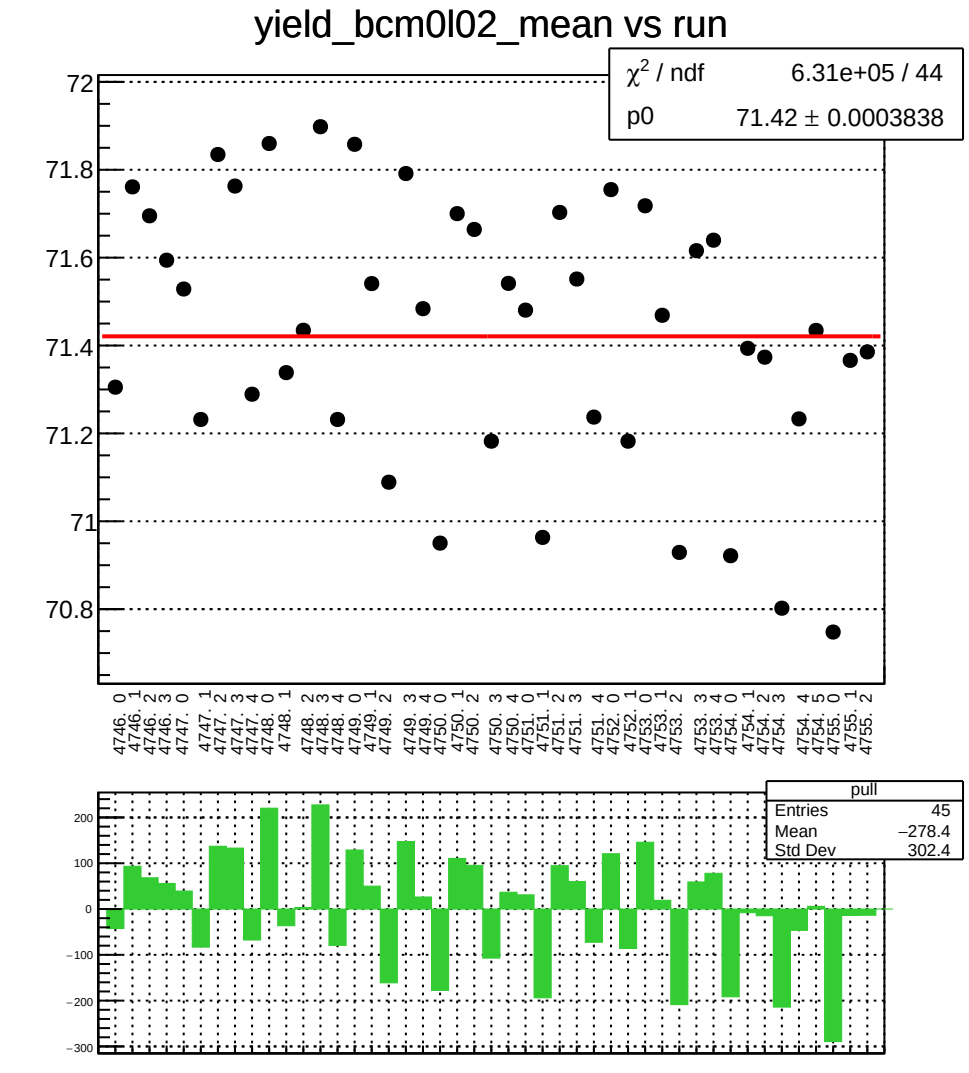

yield_cav4cQ_mean vs run
χ² / ndf 9.535e+06 / 44
p0 69.35 ± 0.0003041
71
70.5
70
69.5
69
68.5
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −99.91
Std Dev 118.1
1200
1000
800
600
400
200
0
−200
−400
−600

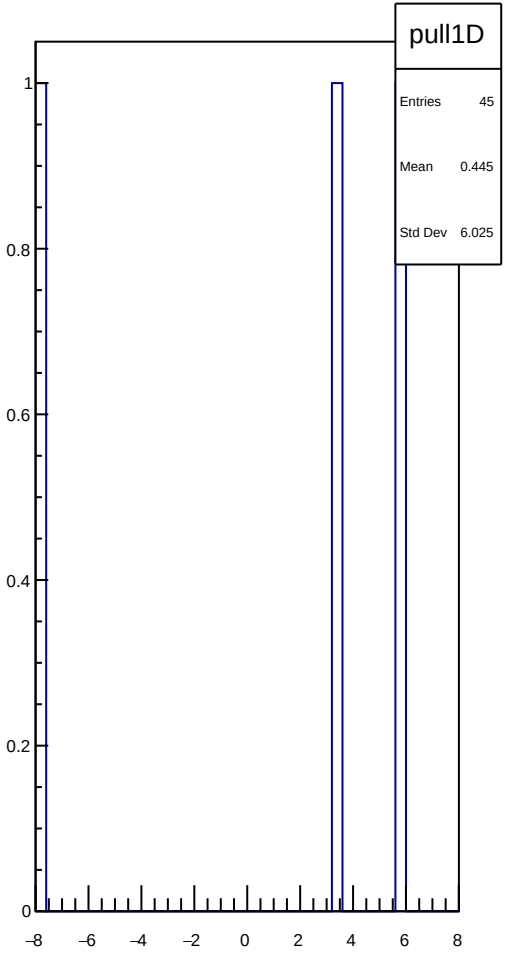

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

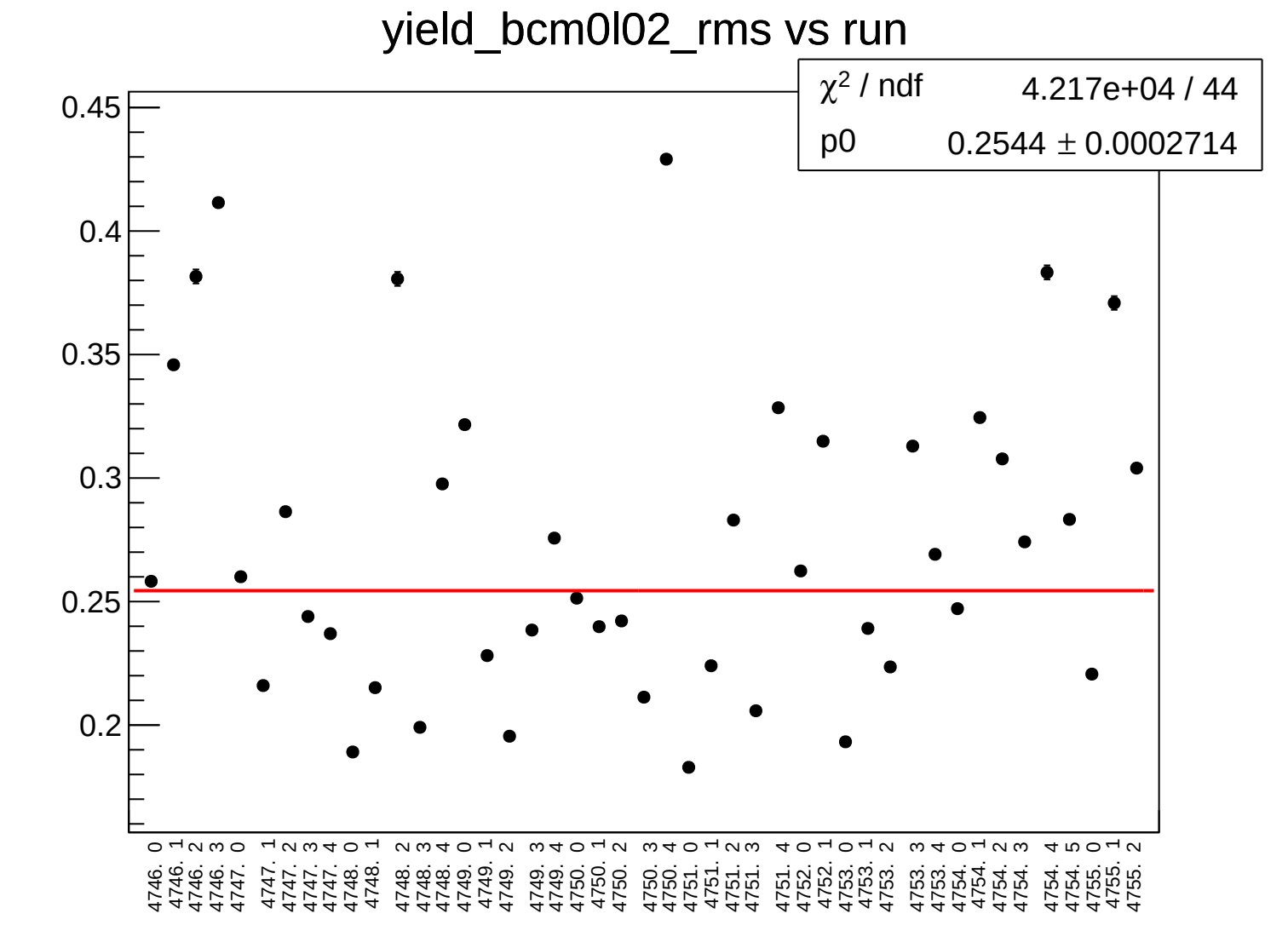

yield_cav4cQ_rms vs run
χ² / ndf 8.354e+04 / 44
p0 0.1968 ± 0.000215
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

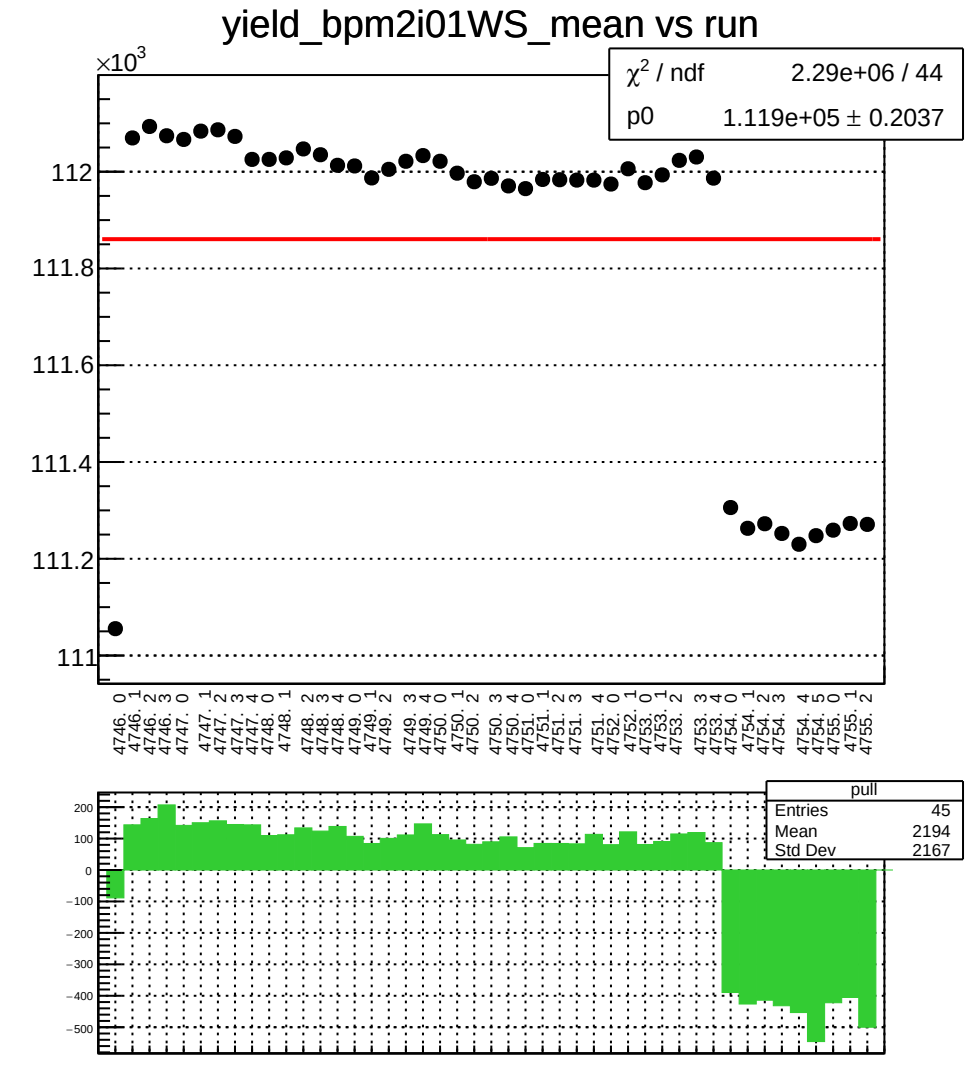

yield_cav4dQ_mean vs run
χ² / ndf 9.757e+06 / 44
p0 379 ± 1.08e−05
379.04
379.02
379
378.98
378.96
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 442.8
Std Dev 427.7
800
600
400
200
0
−200
−400
−600
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

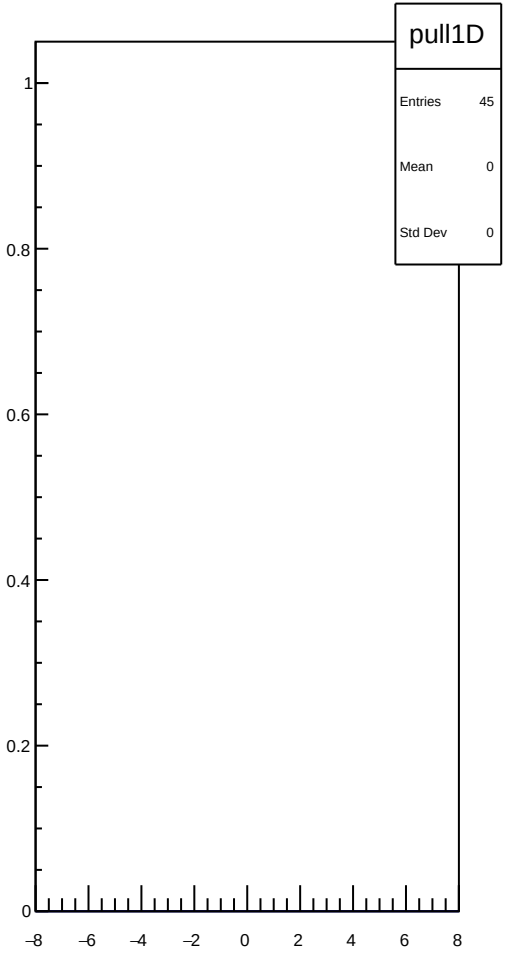

yield_cav4dQ_rms vs run
χ² / ndf 4895 / 44
p0 0.007307 ± 7.634e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

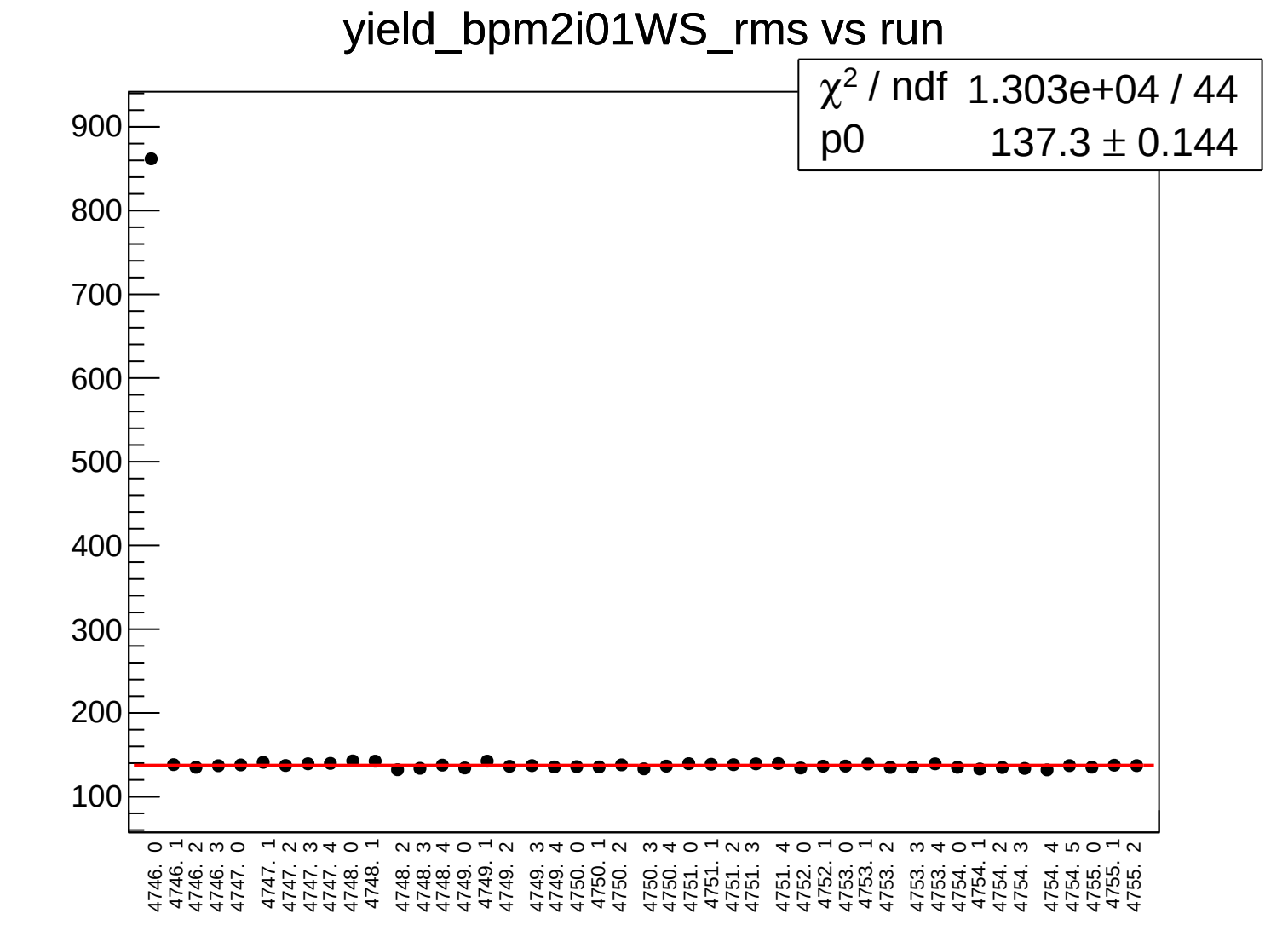

yield_bcm0l02_mean vs run
χ² / ndf 6.31e+05 / 44
p0 71.42 ± 0.0003838
72
71.8
71.6
71.4
71.2
71
70.8
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −278.4
Std Dev 302.4
200
100
0
−100
−200
−300

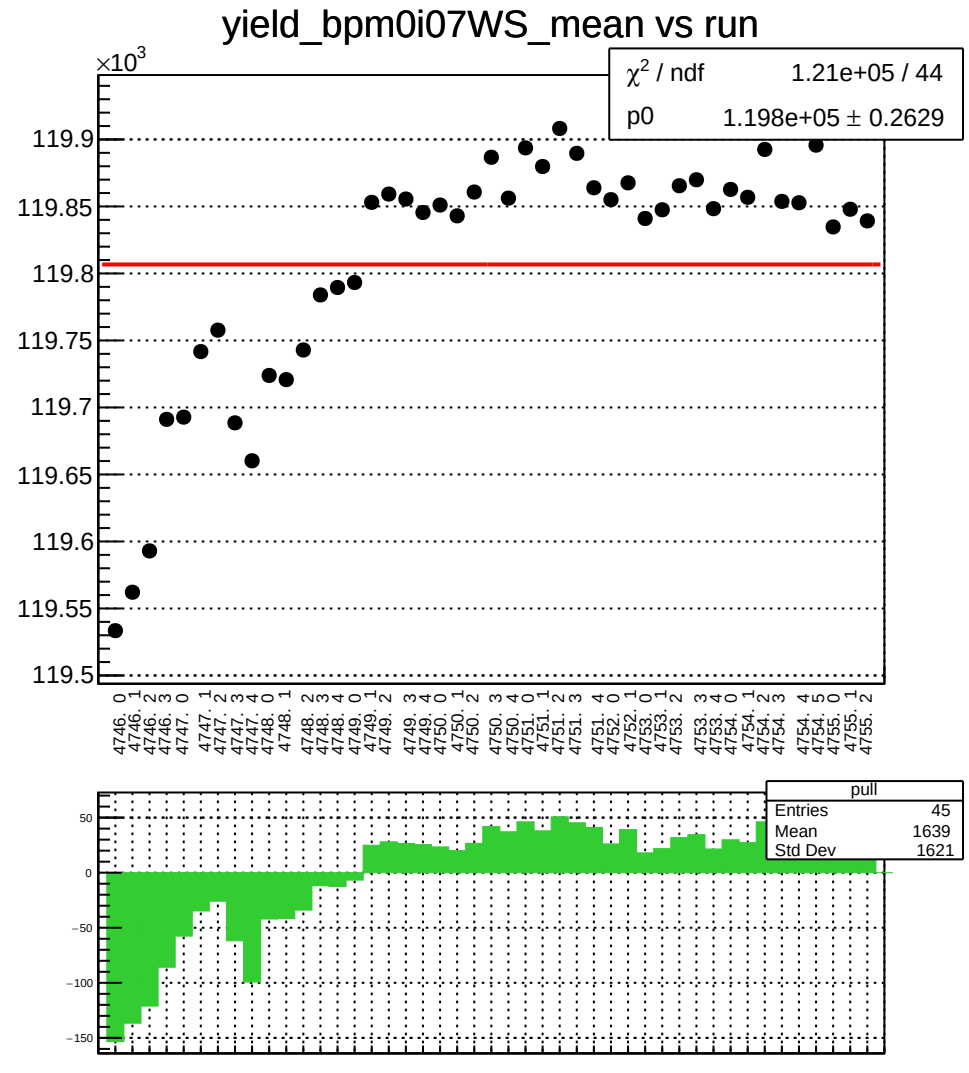

pull1D
Entries 45
Mean 0.445
Std Dev 6.025
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

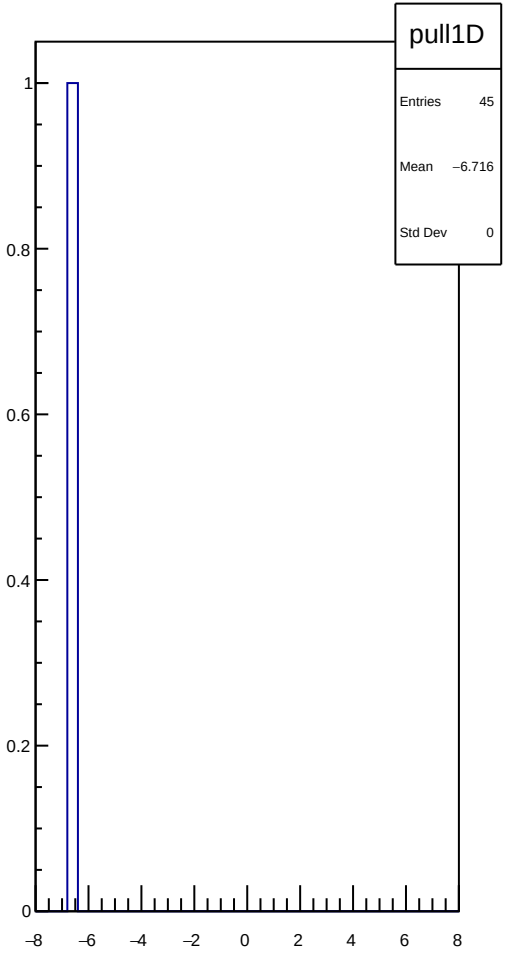

yield_bcm0l02_rms vs run
χ² / ndf 4.217e+04 / 44
p0 0.2544 ± 0.0002714
0.45
0.4
0.35
0.3
0.25
0.2
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

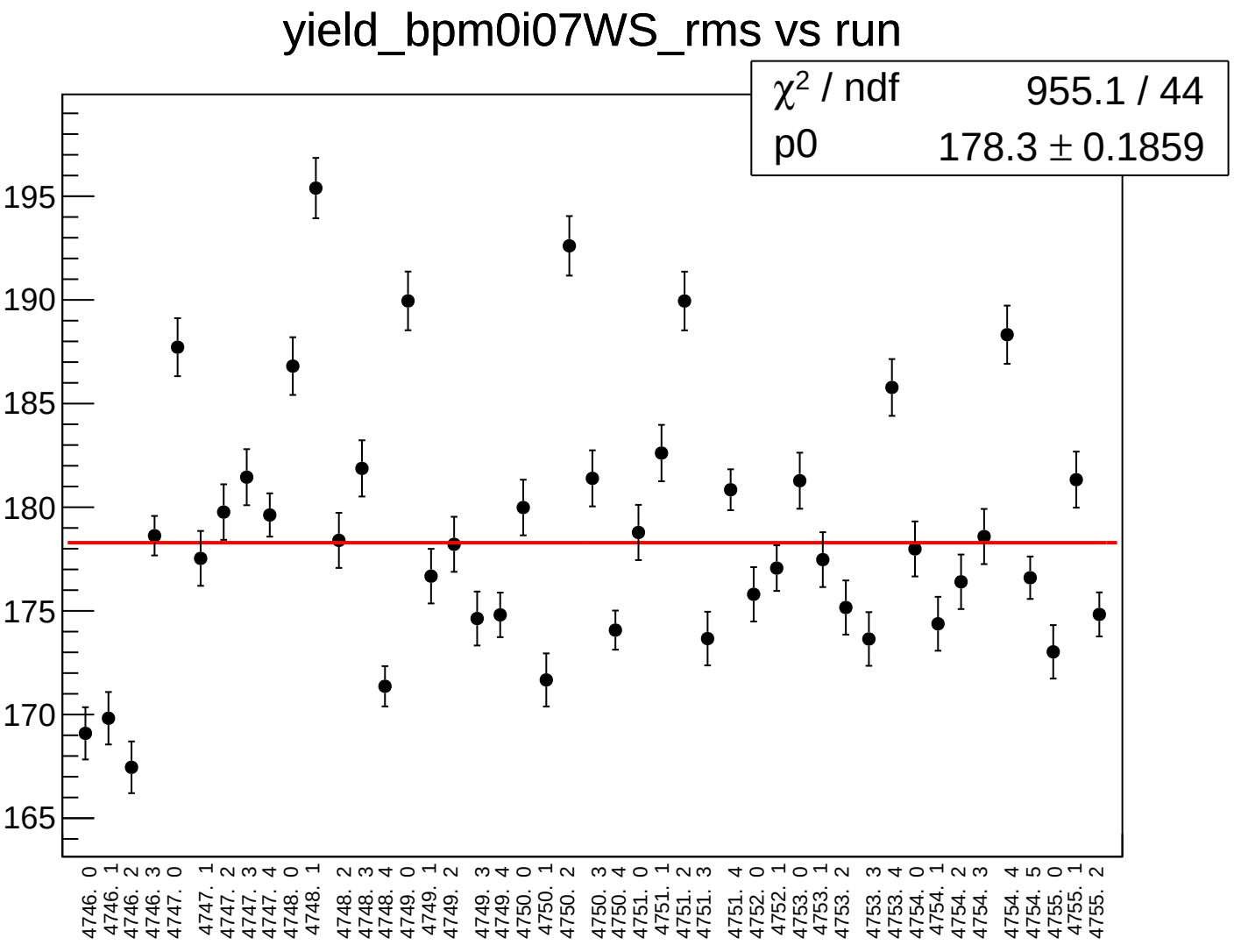

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2.29e+06 / 44
p0 1.119e+05 ± 0.2037
112
111.8
111.6
111.4
111.2
111
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4752. 2
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 2194
Std Dev 2167
200
100
0
−100
−200
−300
−400
−500

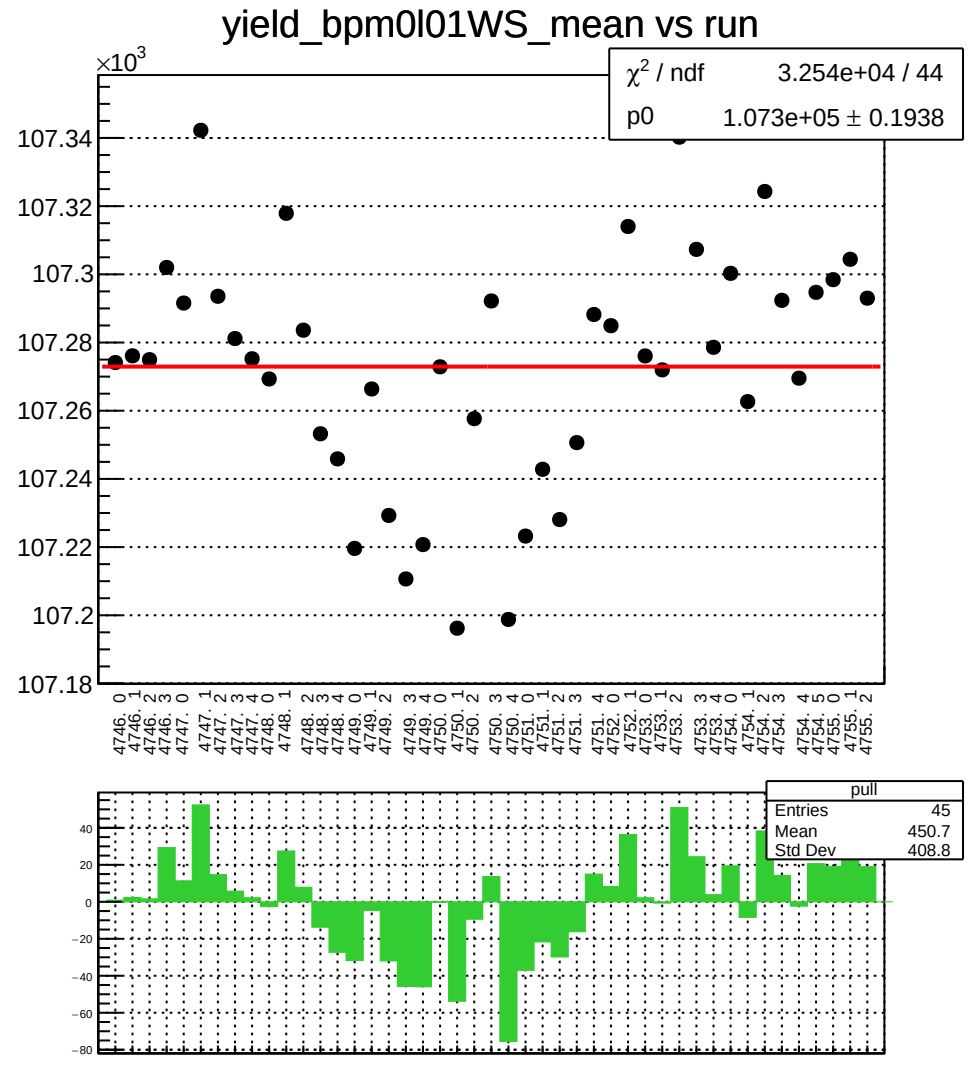

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

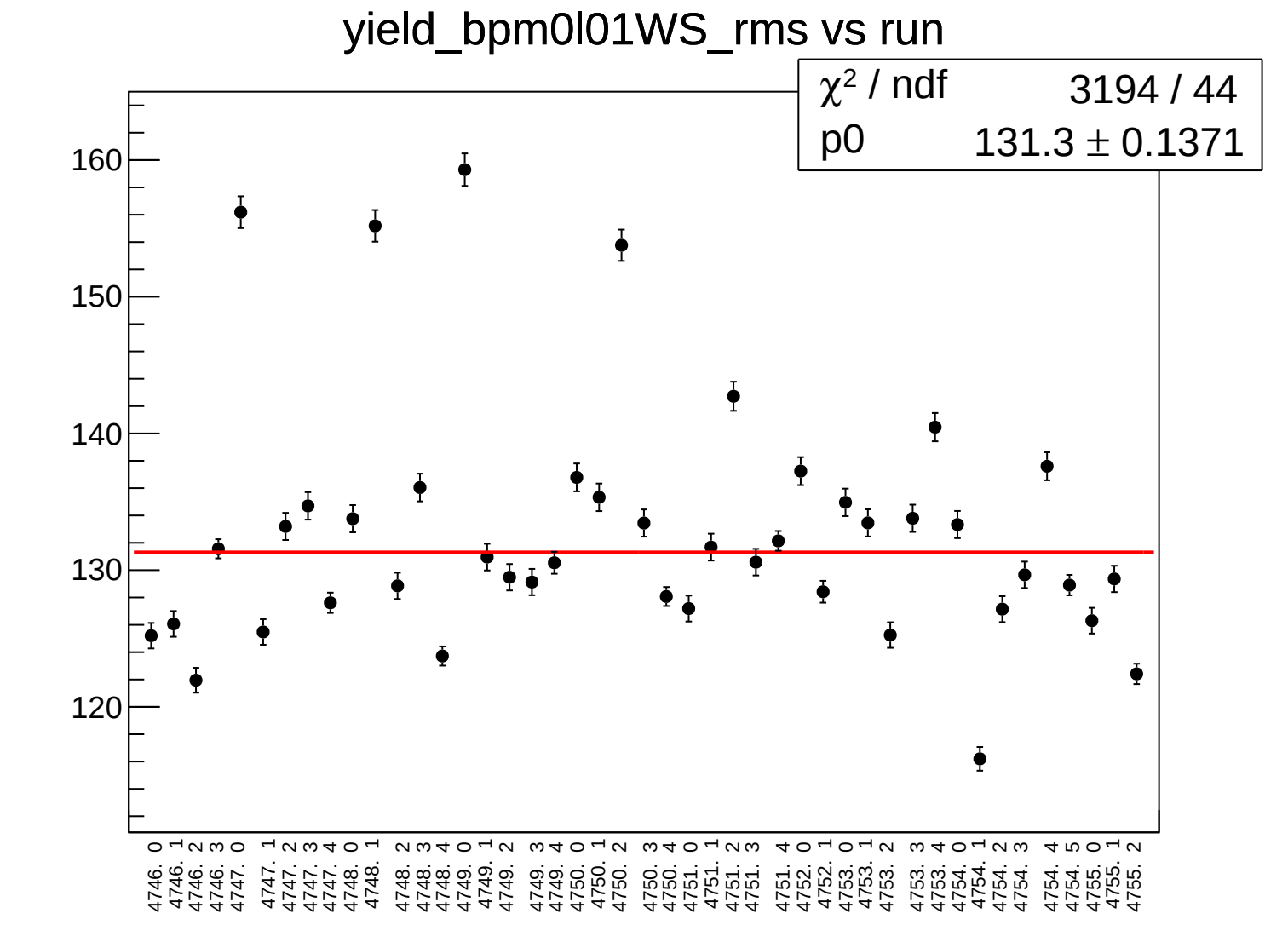

yield_bpm2i01WS_rms vs run
χ² / ndf 1.303e+04 / 44
p0 137.3 ± 0.144
900
800
700
600
500
400
300
200
100
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

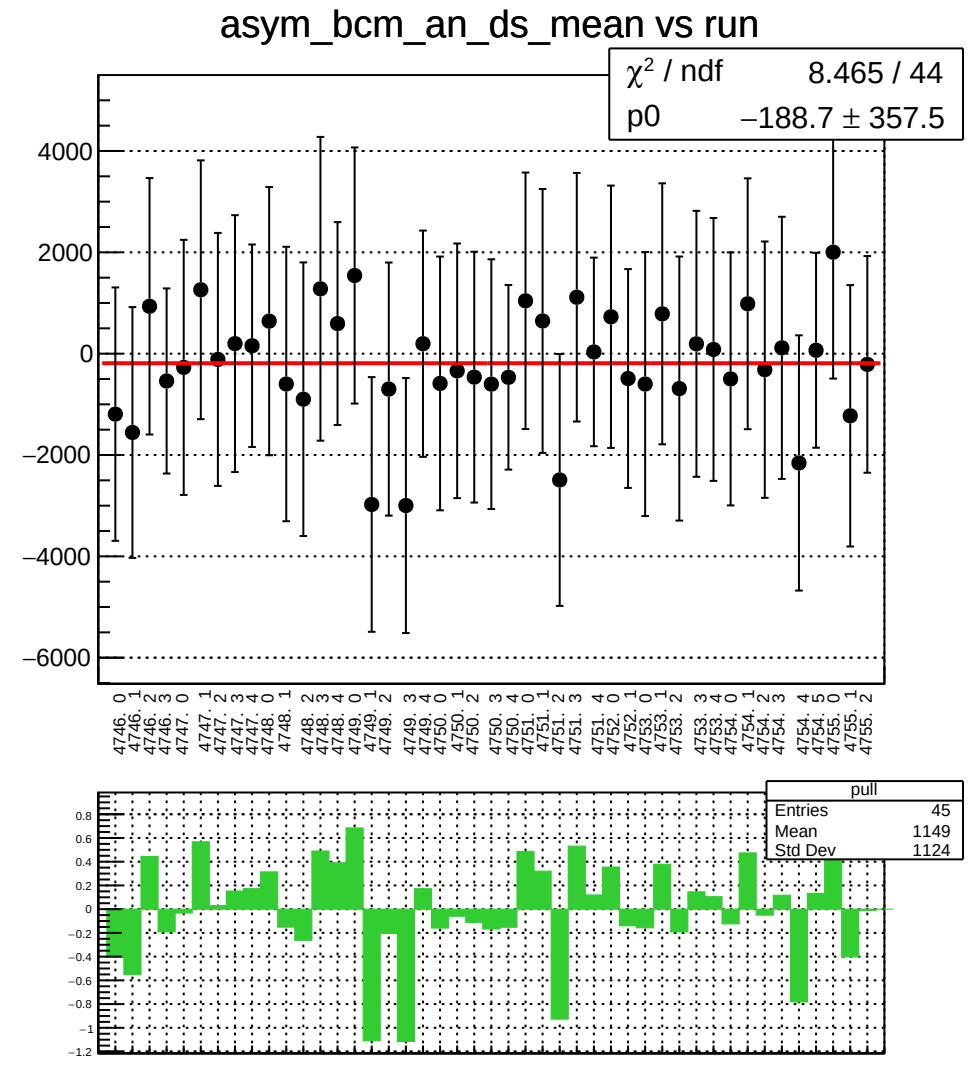

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.21e+05 / 44
p0 1.198e+05 ± 0.2629
119.9
119.85
119.8
119.75
119.7
119.65
119.6
119.55
119.5
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 1639
Std Dev 1621
50
0
−50
−100
−150

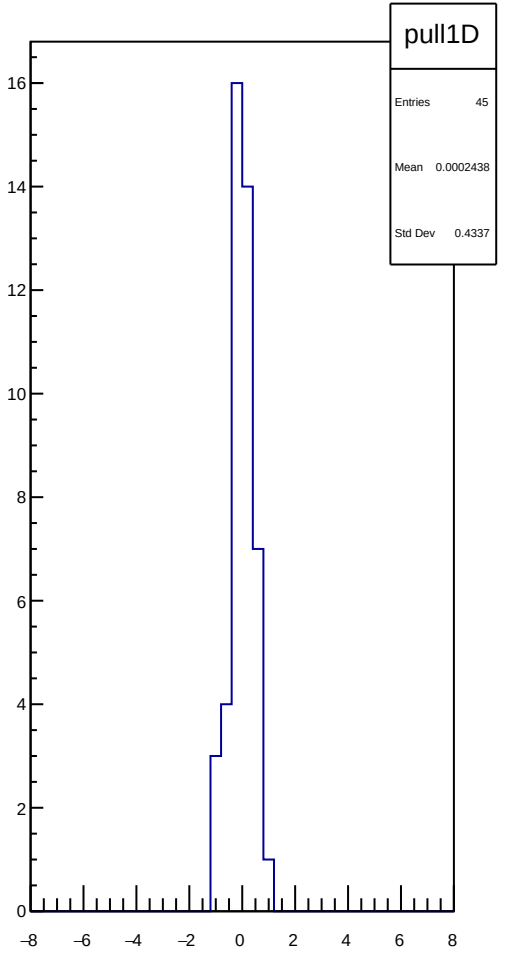

pull1D
Entries 45
Mean −6.716
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

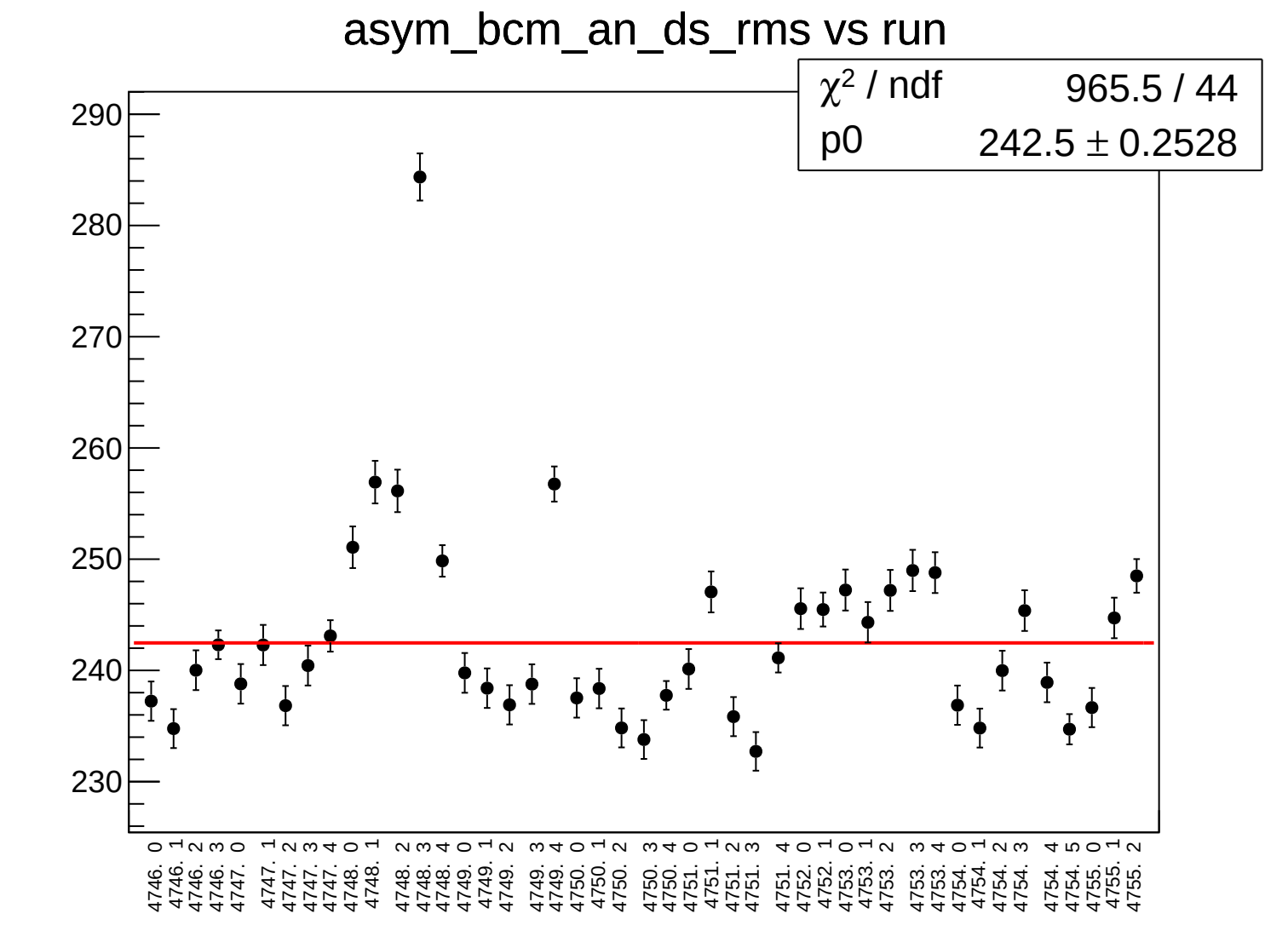

yield_bpm0i07WS_rms vs run
χ² / ndf 955.1 / 44
p0 178.3 ± 0.1859
195
190
185
180
175
170
165
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

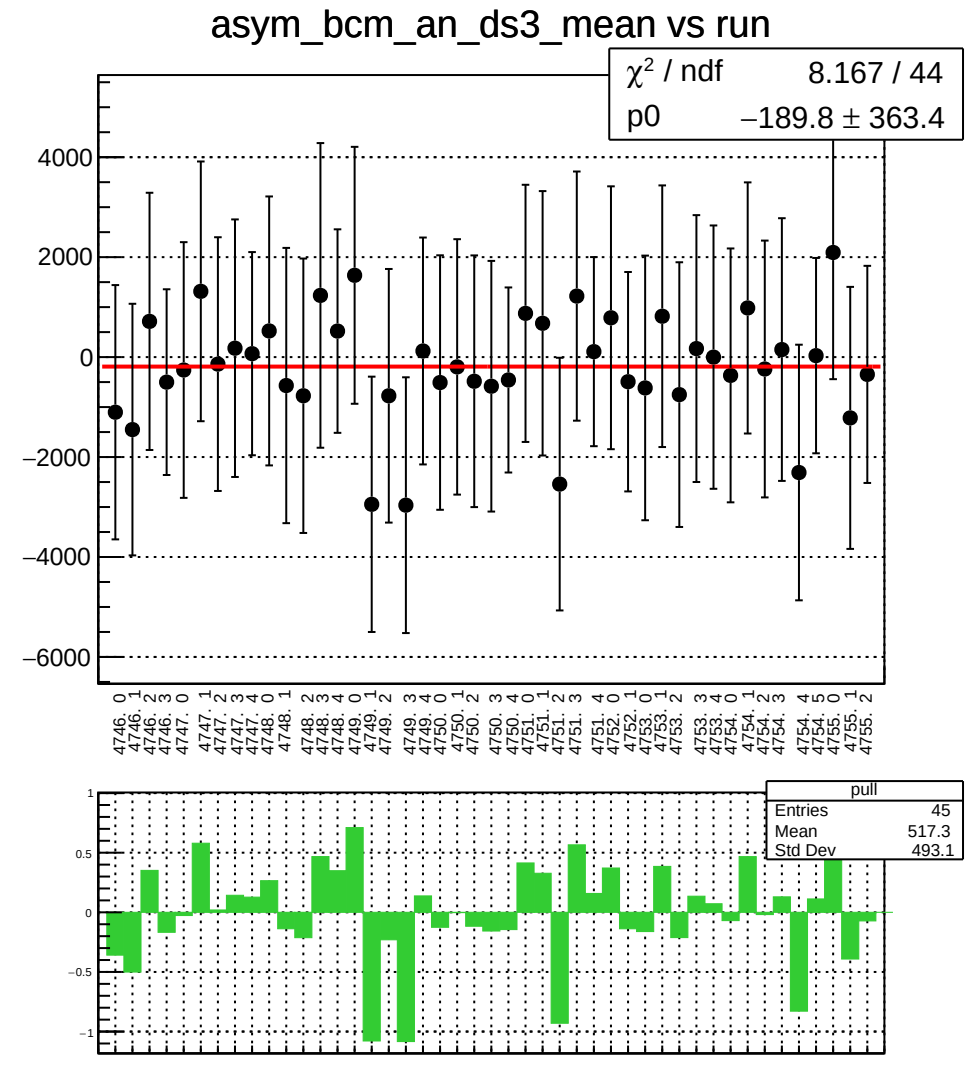

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 3.254e+04 / 44
p0 1.073e+05 ± 0.1938
107.34
107.32
107.3
107.28
107.26
107.24
107.22
107.2
107.18
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 450.7
Std Dev 408.8
40
20
0
−20
−40
−60
−80
pull1D
Entries 45
Mean 1.262
Std Dev 3.322
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

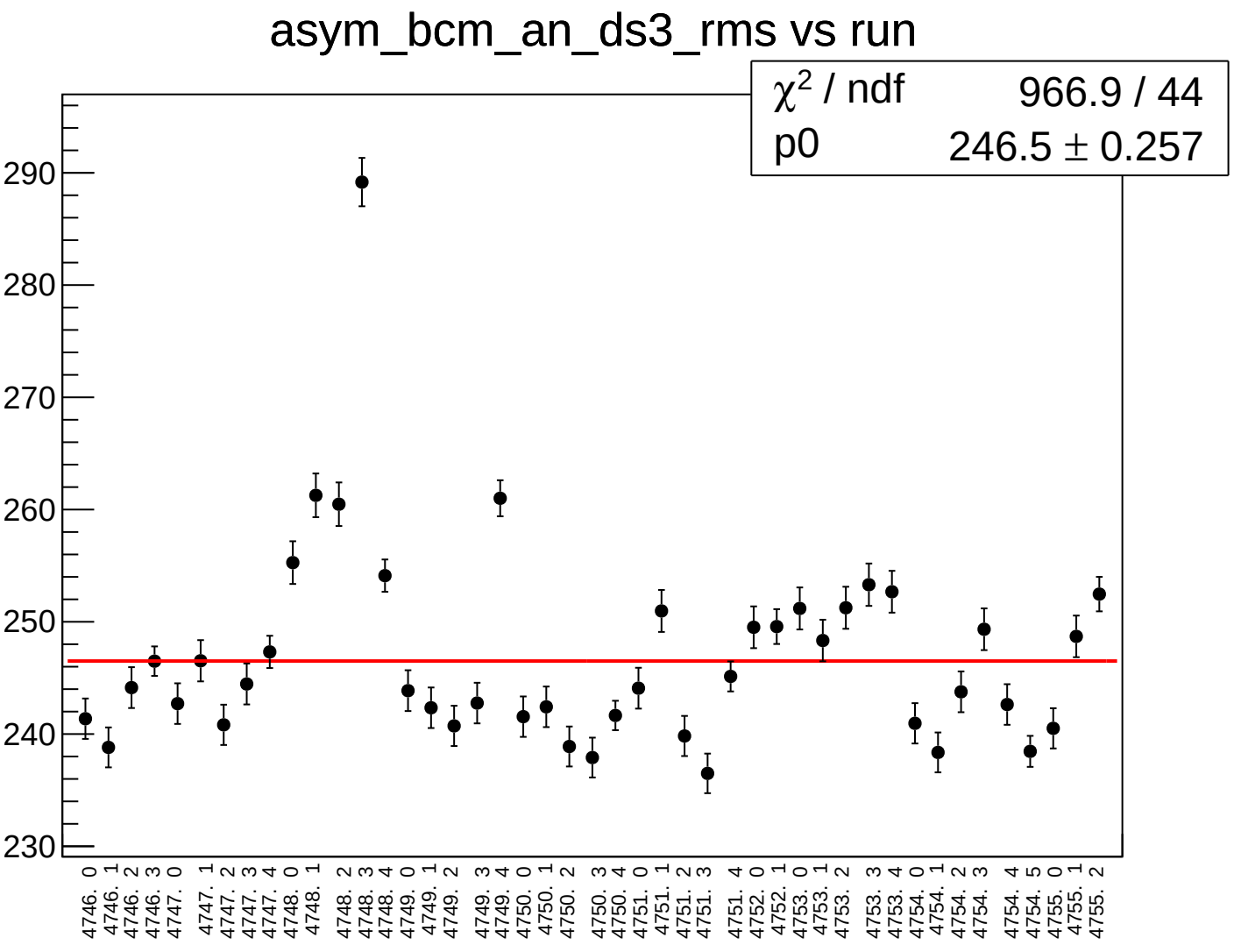

yield_bpm0l01WS_rms vs run
χ² / ndf 3194 / 44
p0 131.3 ± 0.1371
160
150
140
130
120
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

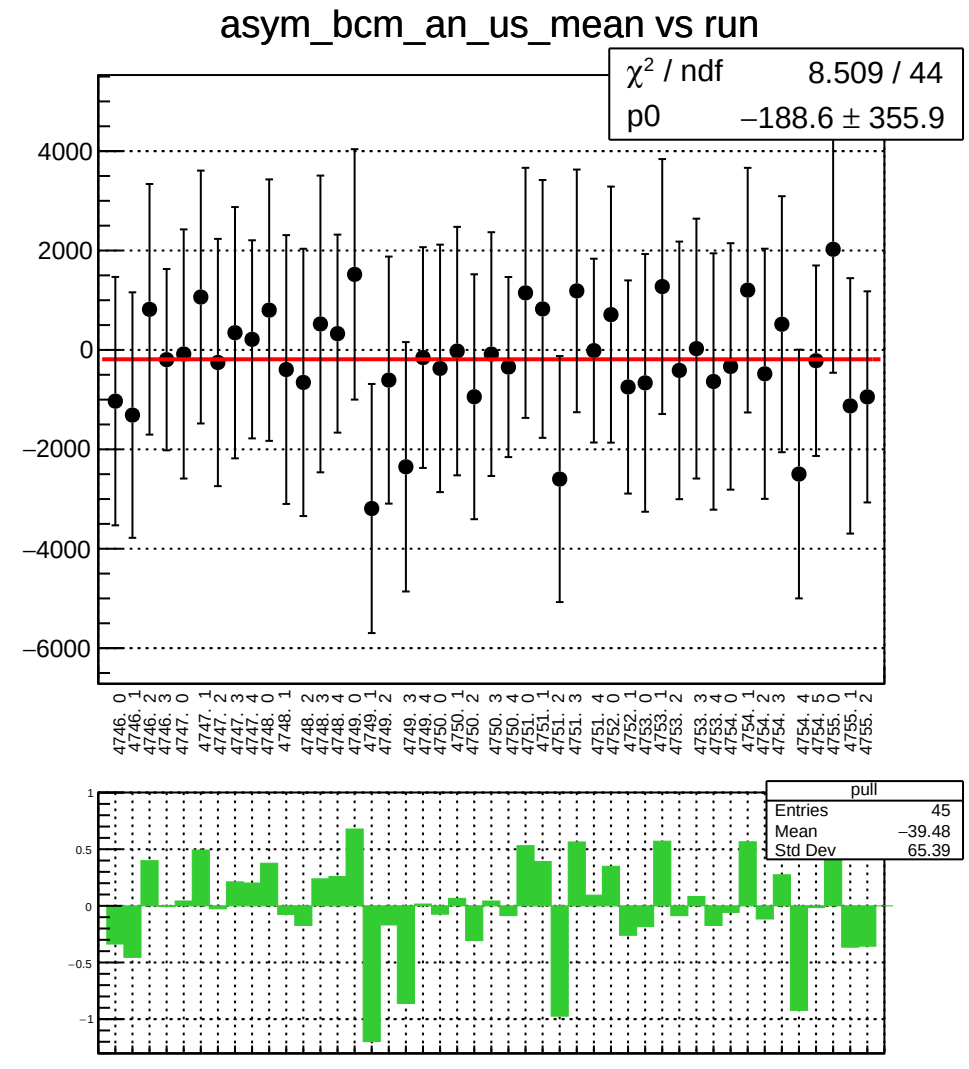

asym_bcm_an_ds_mean vs run
χ² / ndf 8.465 / 44
p0 −188.7 ± 357.5
4000
2000
0
−2000
−4000
−6000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 1149
Std Dev 1124
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

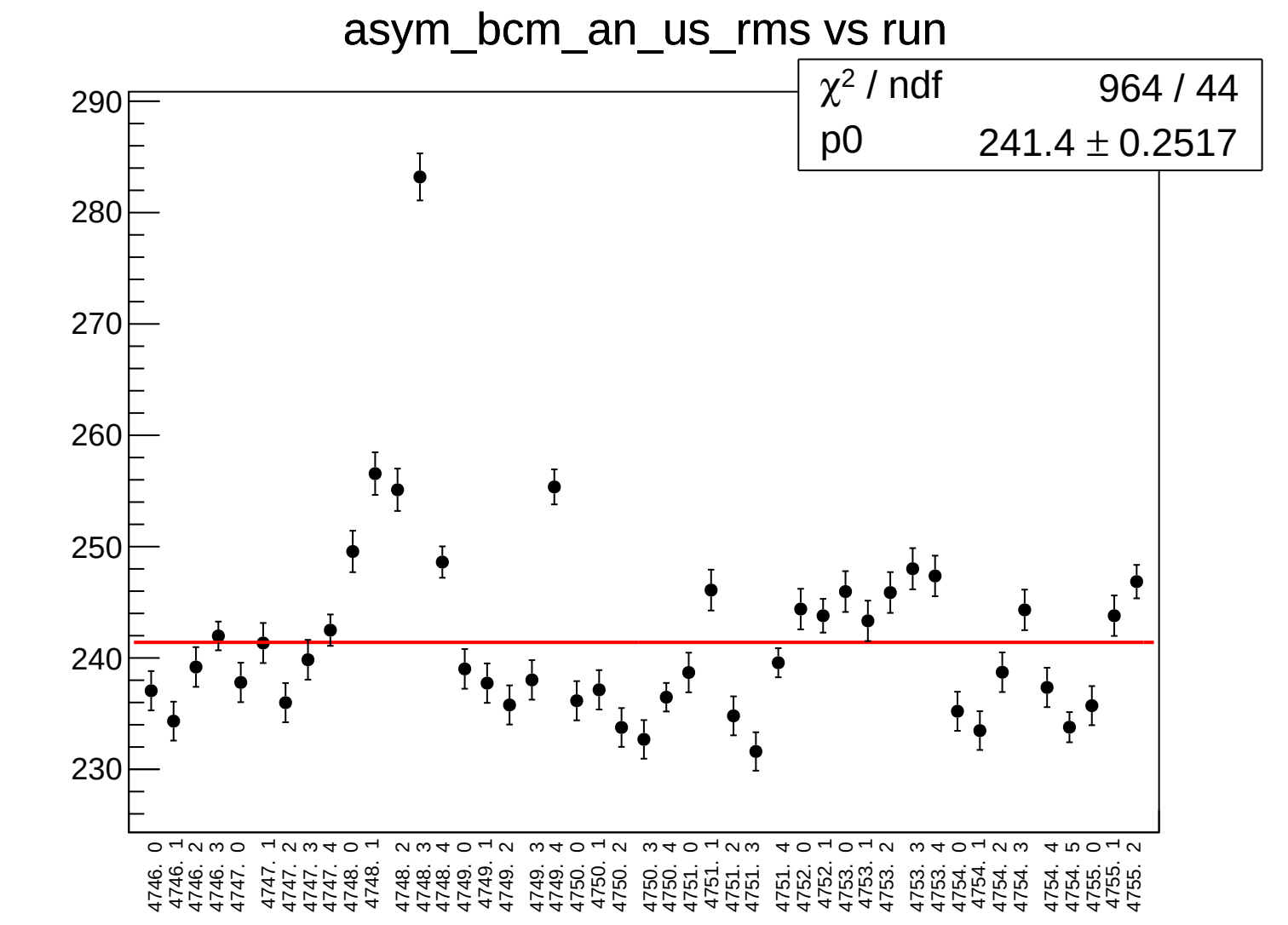

pull1D
Entries 45
Mean 0.0002438
Std Dev 0.4337
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

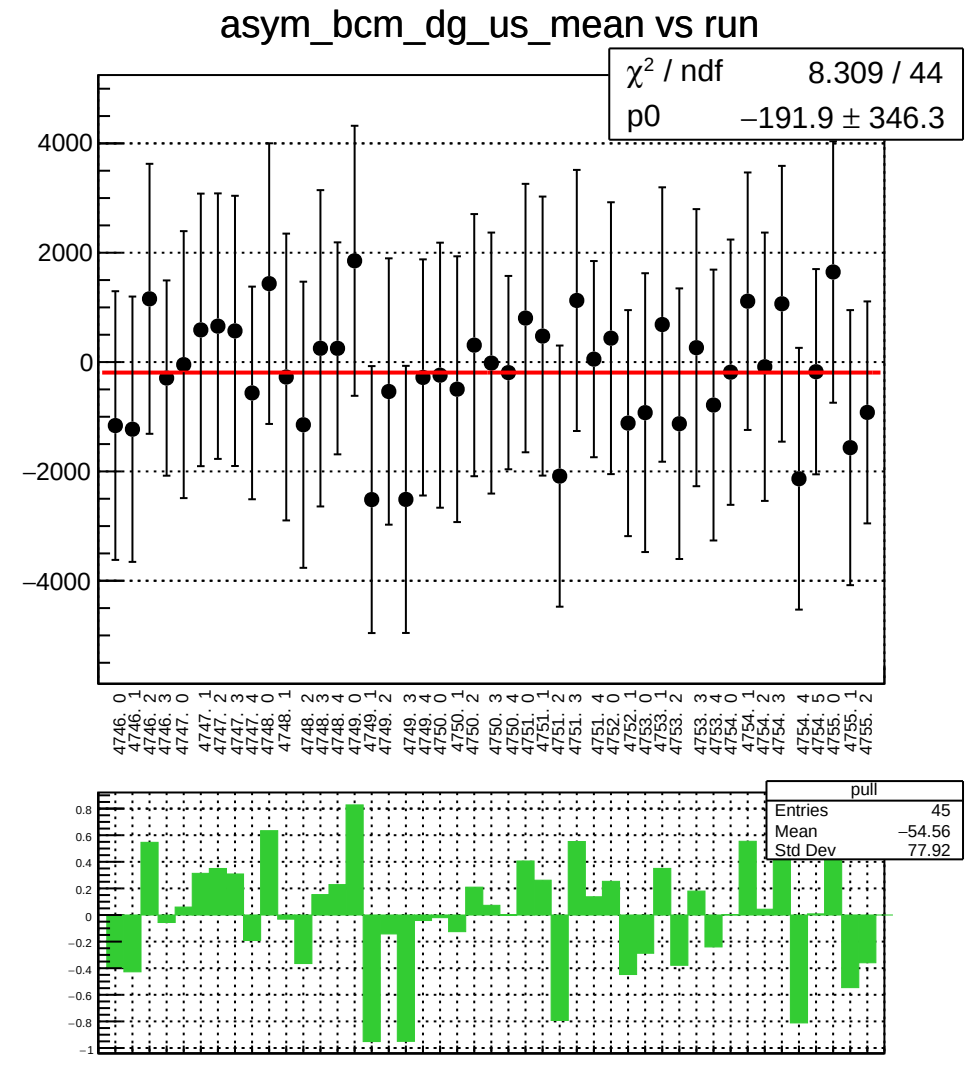

asym_bcm_an_ds_rms vs run
χ² / ndf 965.5 / 44
p0 242.5 ± 0.2528
290
280
270
260
250
240
230
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

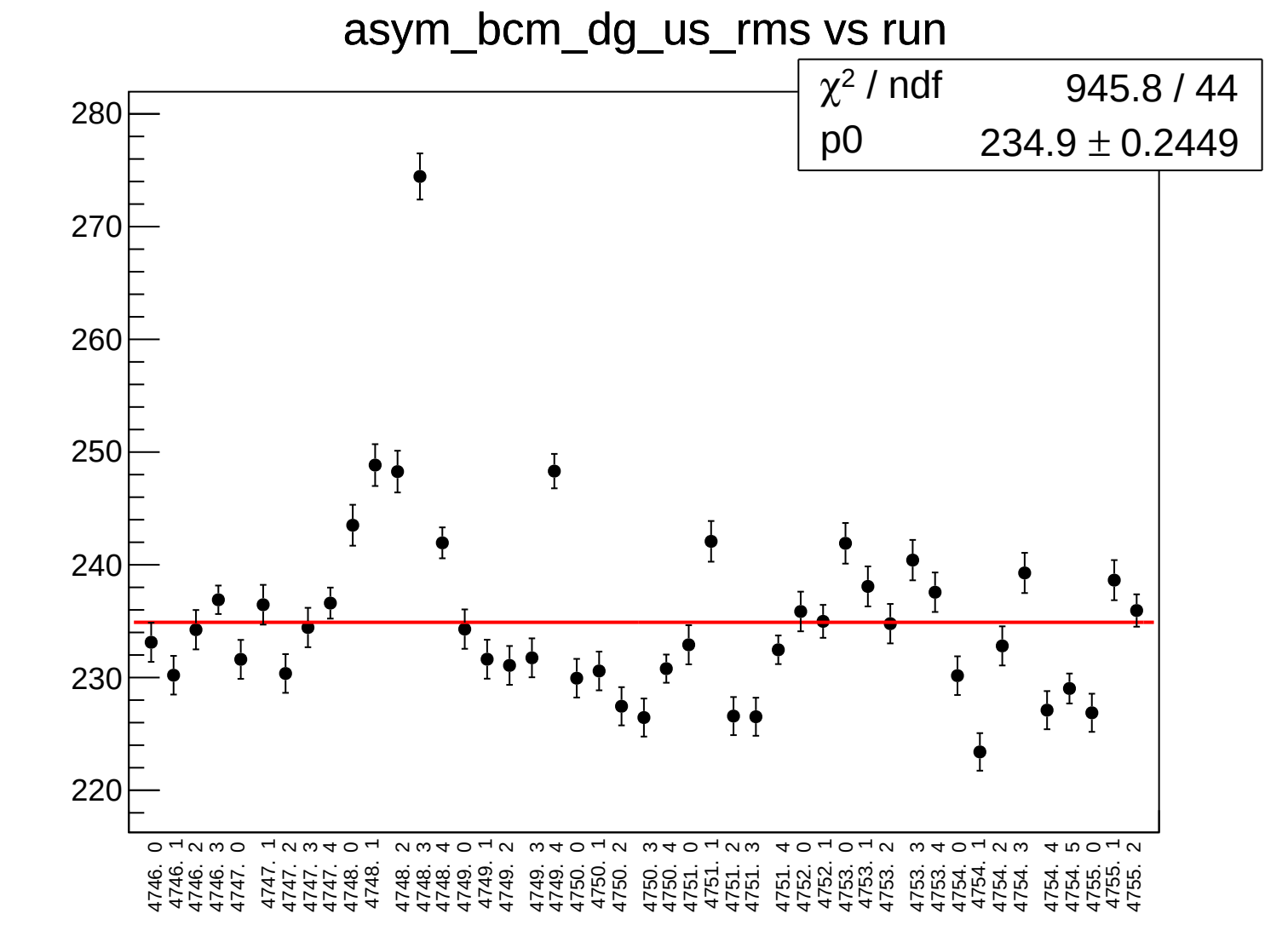

asym_bcm_an_ds3_mean vs run
χ² / ndf 8.167 / 44
p0 −189.8 ± 363.4
4000
2000
0
−2000
−4000
−6000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 517.3
Std Dev 493.1
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean 0.0005168
Std Dev 0.426
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

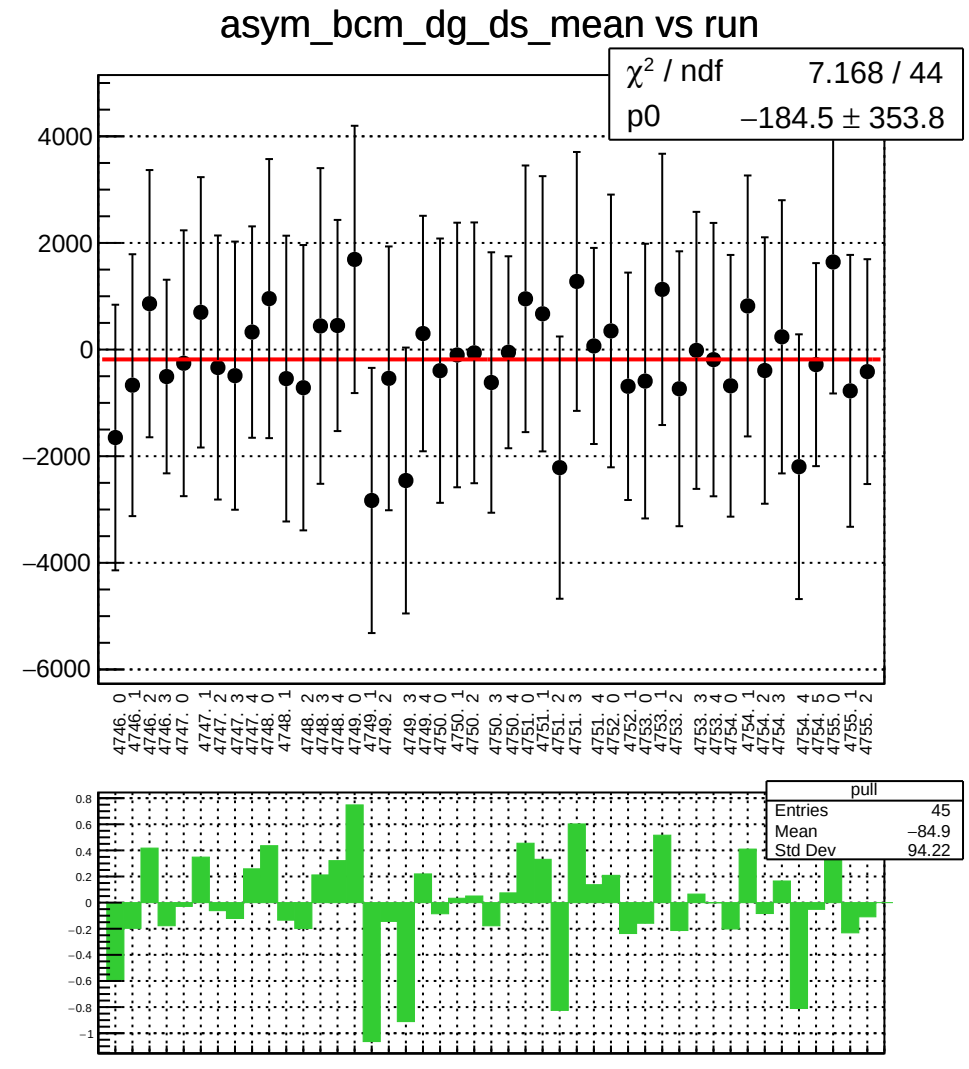

asym_bcm_an_ds3_rms vs run
χ² / ndf 966.9 / 44
p0 246.5 ± 0.257
290
280
270
260
250
240
230
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

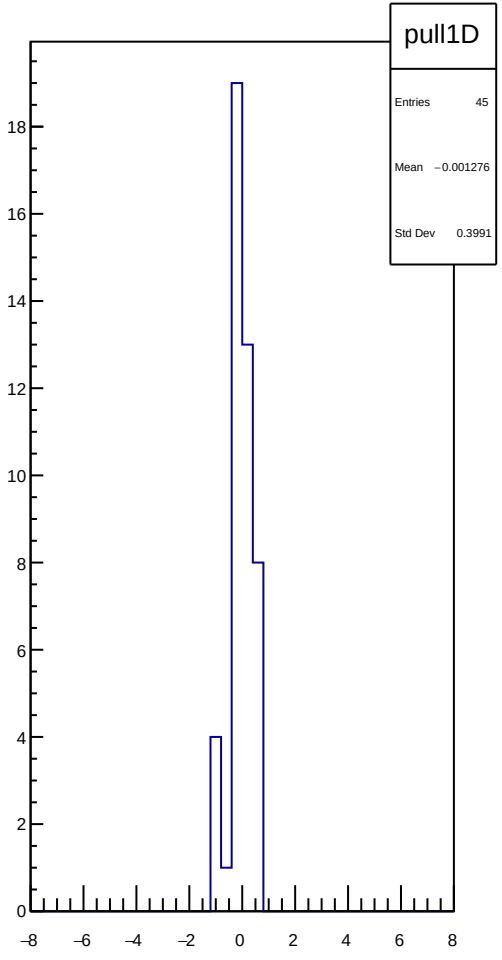

asym_bcm_an_us_mean vs run
χ² / ndf 8.509 / 44
p0 −188.6 ± 355.9
4000
2000
0
−2000
−4000
−6000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −39.48
Std Dev 65.39
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean 0.001464
Std Dev 0.4348
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

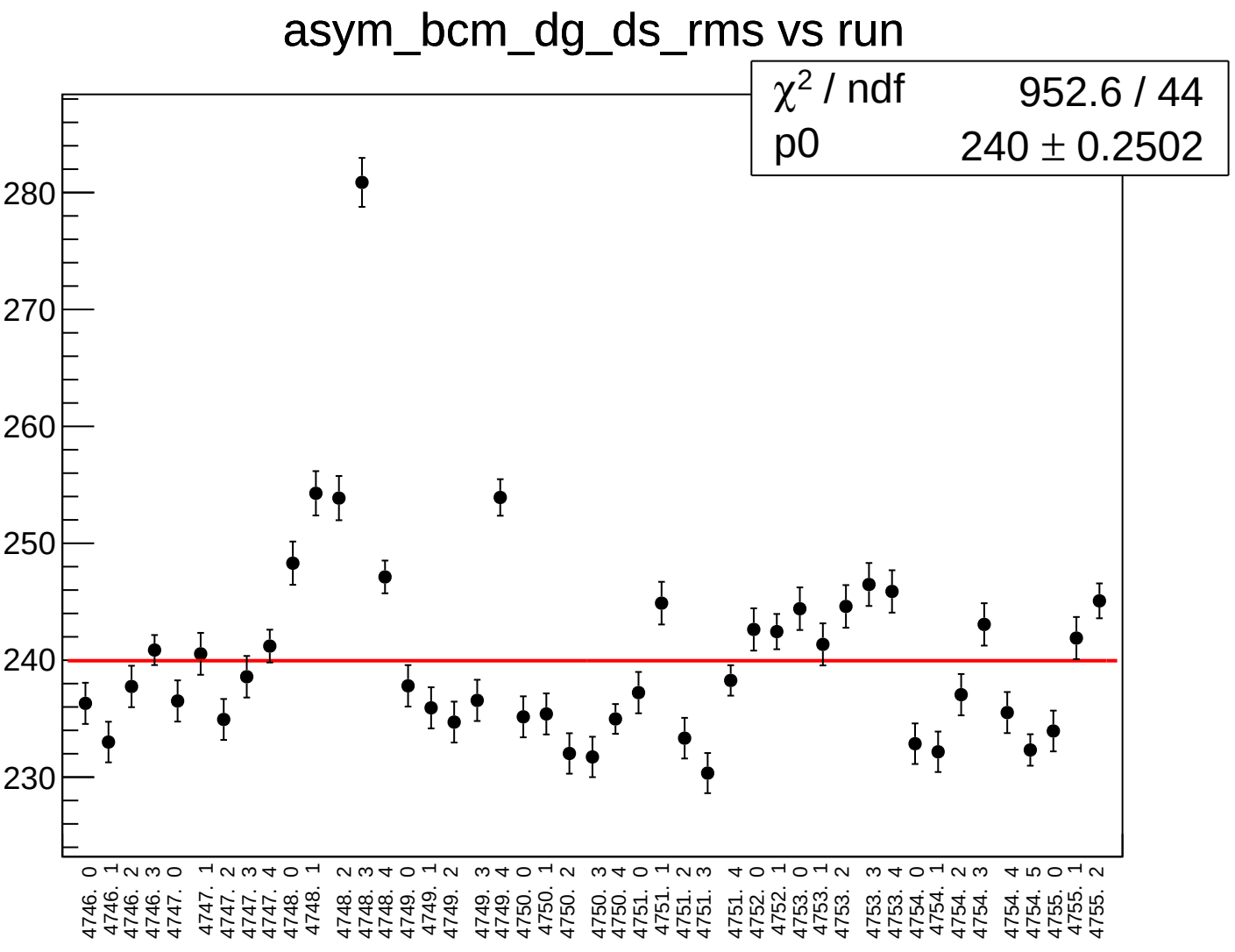

asym_bcm_an_us_rms vs run
χ² / ndf 964 / 44
p0 241.4 ± 0.2517
290
280
270
260
250
240
230
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

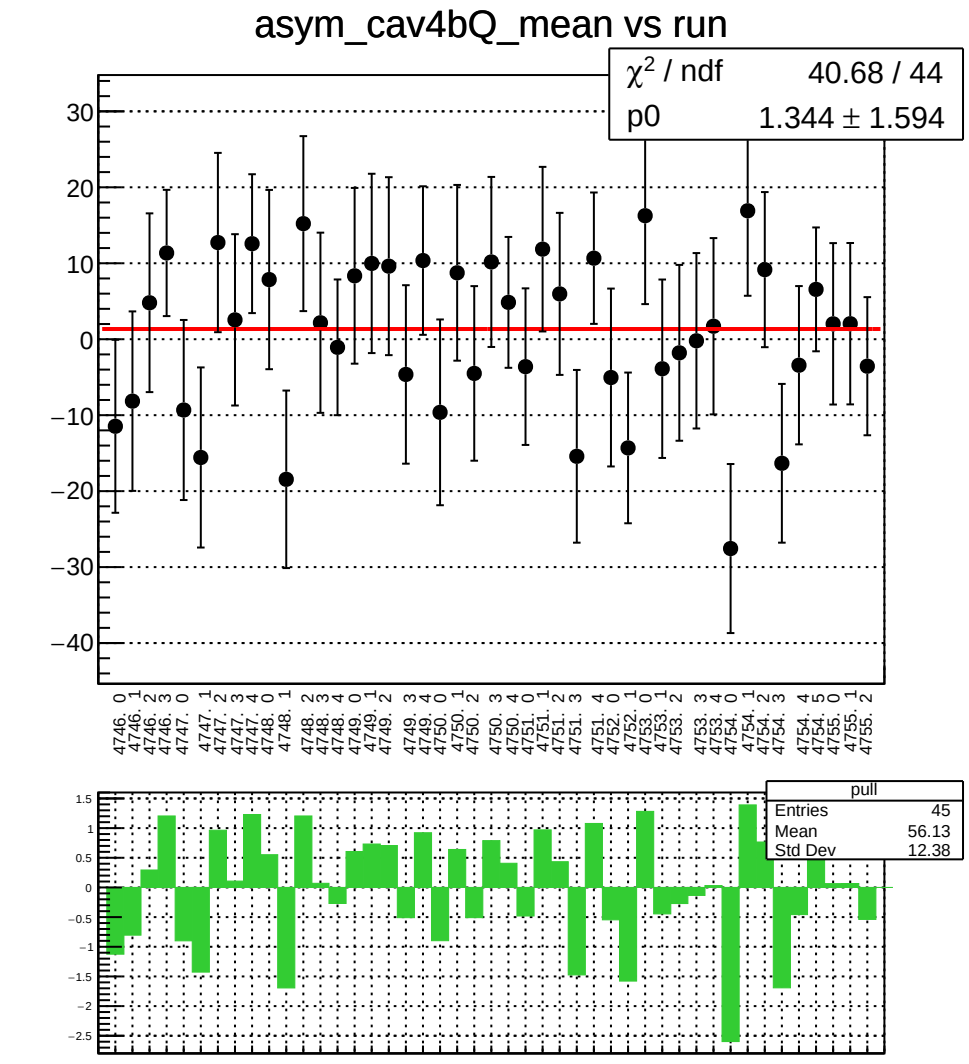

asym_bcm_dg_us_mean vs run
χ² / ndf 8.309 / 44
p0 −191.9 ± 346.3
4000
2000
0
−2000
−4000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −54.56
Std Dev 77.92
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean 0.003626
Std Dev 0.4297
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

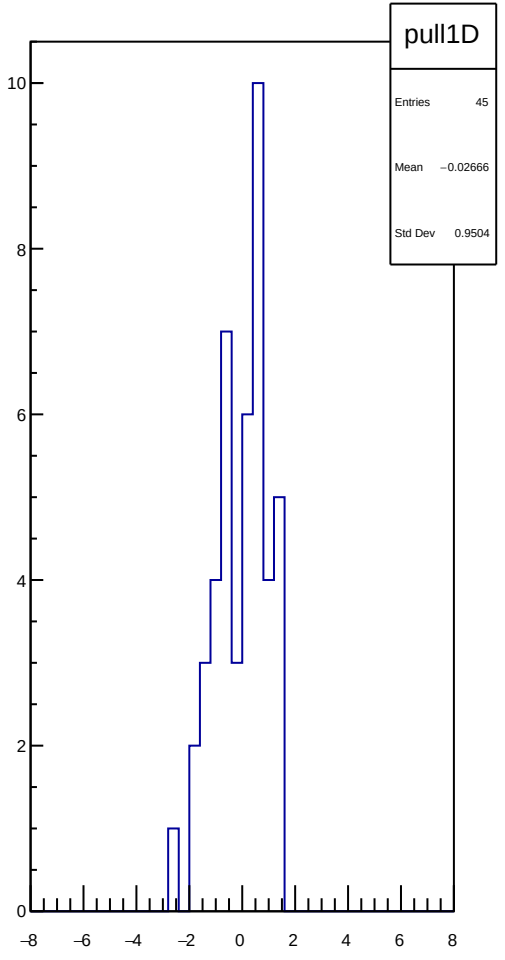

asym_bcm_dg_us_rms vs run
χ² / ndf 945.8 / 44
p0 234.9 ± 0.2449
280
270
260
250
240
230
220
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

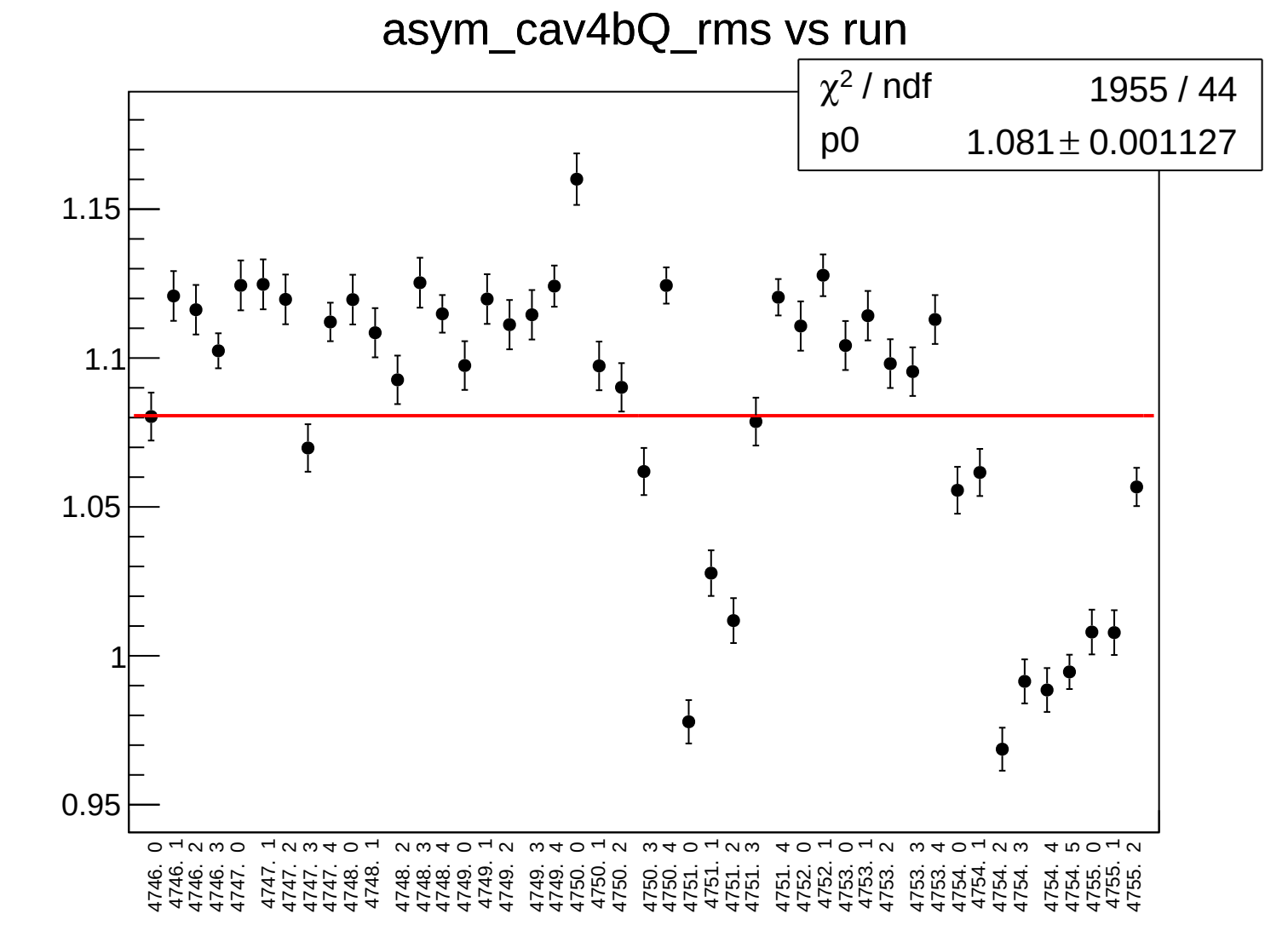

asym_bcm_dg_ds_mean vs run
χ² / ndf 7.168 / 44
p0 −184.5 ± 353.8
4000
2000
0
−2000
−4000
−6000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −84.9
Std Dev 94.22
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

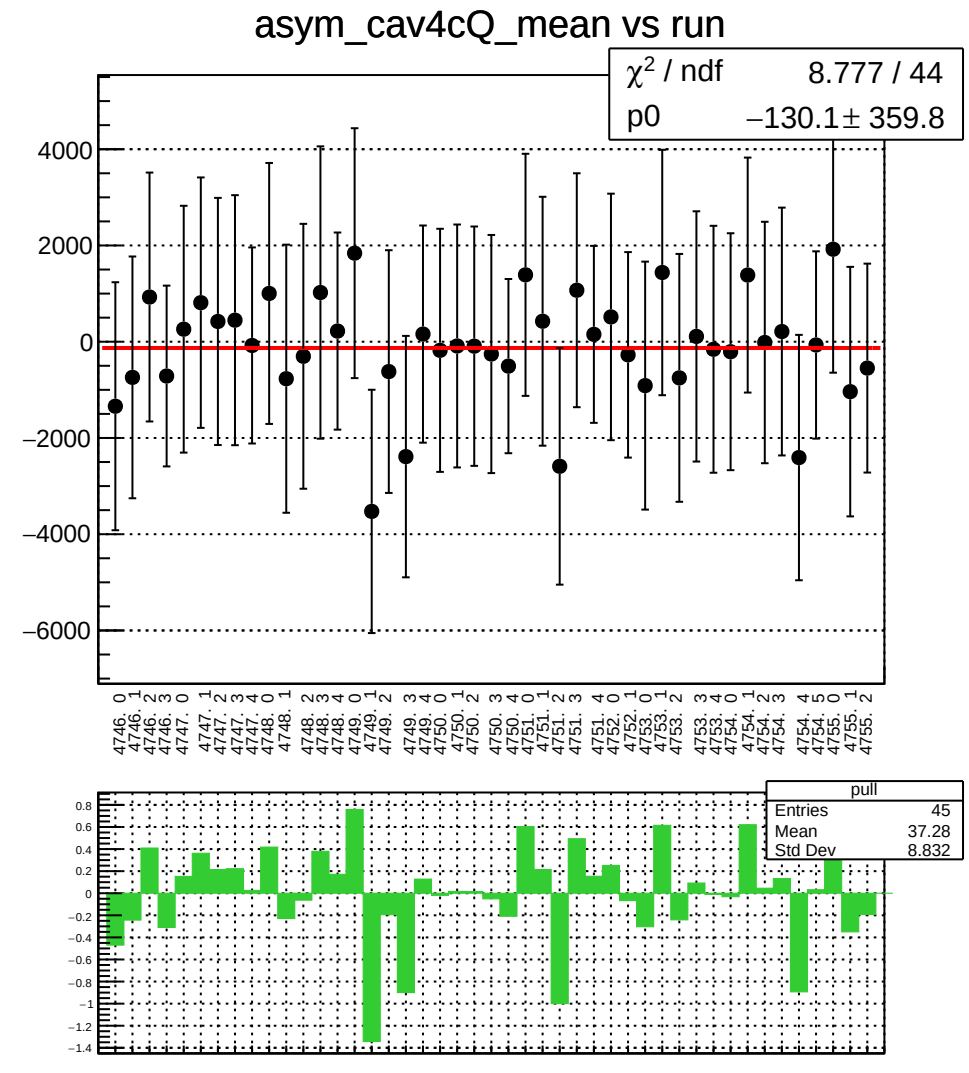

pull1D
Entries 45
Mean −0.001276
Std Dev 0.3991
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

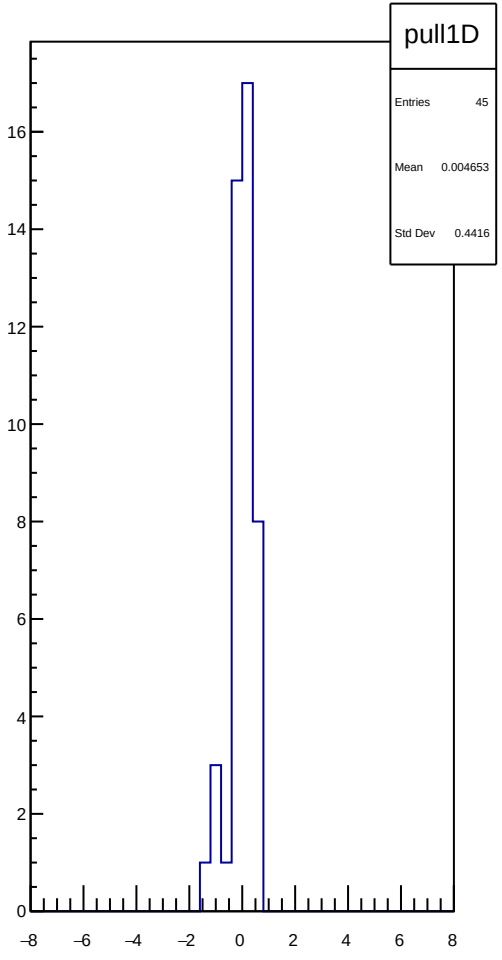

asym_bcm_dg_ds_rms vs run
χ² / ndf 952.6 / 44
p0 240 ± 0.2502
280
270
260
250
240
230
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

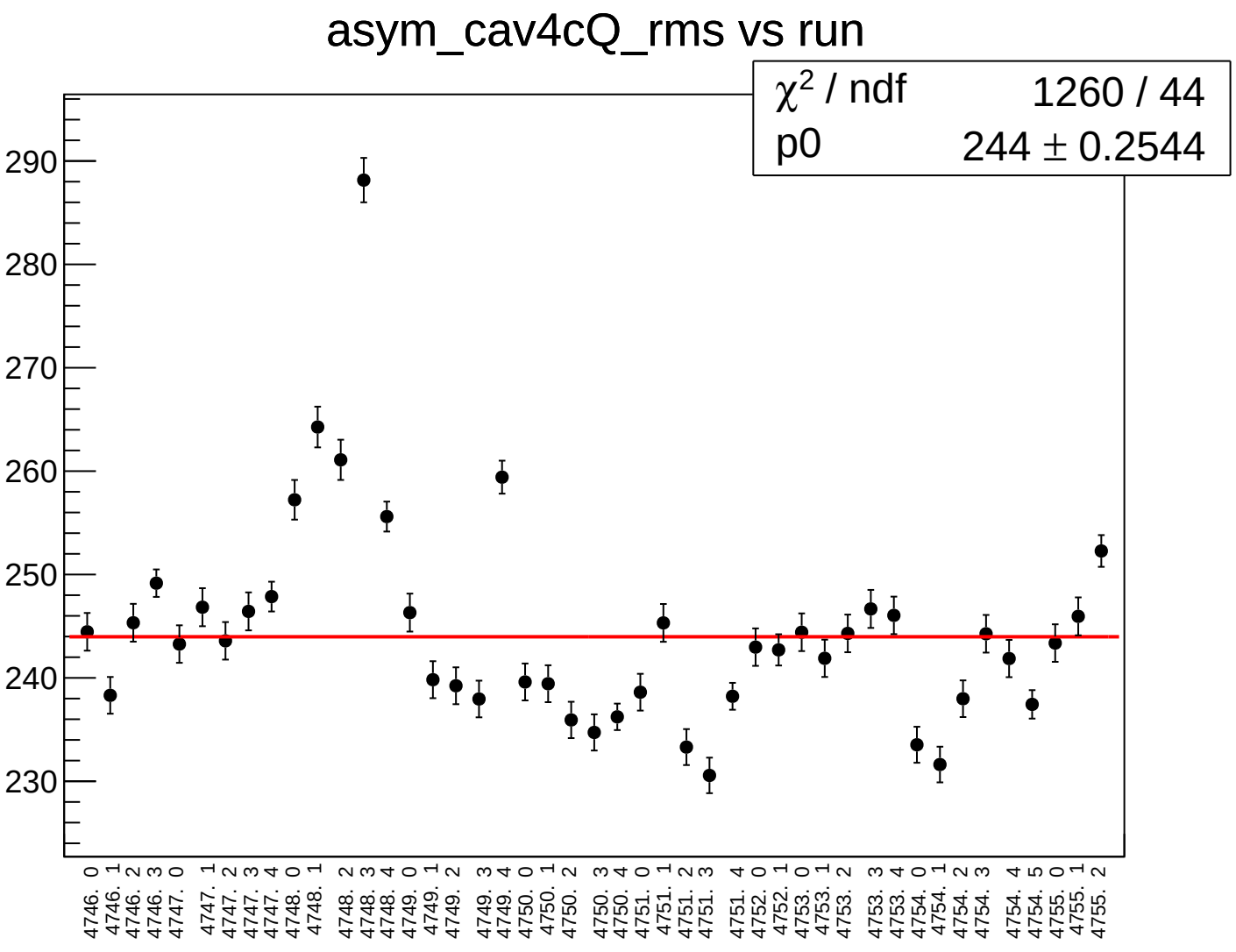

asym_cav4bQ_mean vs run
χ² / ndf 40.68 / 44
p0 1.344 ± 1.594
pull
Entries 45
Mean 56.13
Std Dev 12.38


pull1D
Entries 45
Mean −0.02666
Std Dev 0.9504


asym_cav4bQ_rms vs run
χ² / ndf 1955 / 44
p0 1.081 ± 0.001127
1.15
1.1
1.05
1
0.95
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2


asym_cav4cQ_mean vs run
χ² / ndf 8.777 / 44
p0 −130.1± 359.8
4000
2000
0
−2000
−4000
−6000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 37.28
Std Dev 8.832
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4


pull1D
Entries 45
Mean 0.004653
Std Dev 0.4416
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_cav4cQ_rms vs run
χ² / ndf 1260 / 44
p0 244 ± 0.2544
290
280
270
260
250
240
230
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
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4749. 0
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4749. 2
4749. 3
4749. 4
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4750. 2
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4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
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4753. 0
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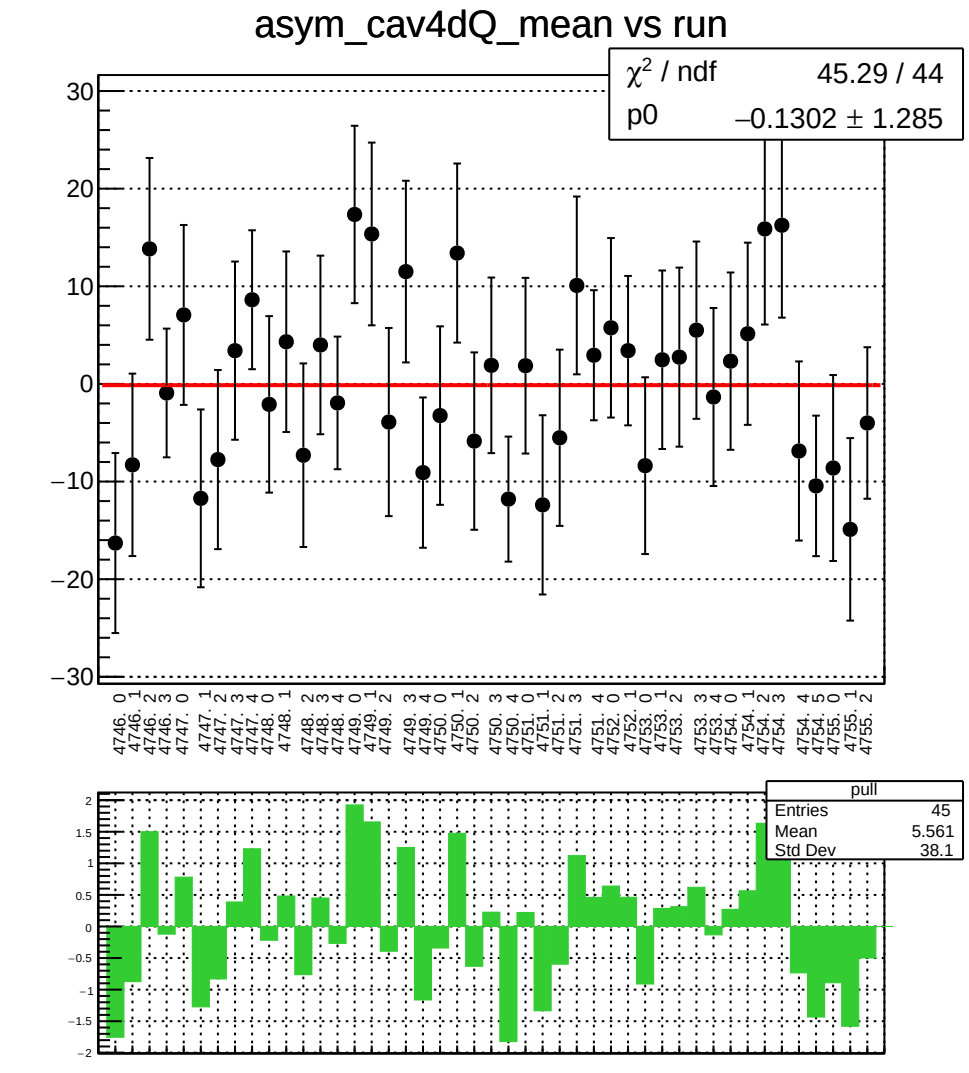
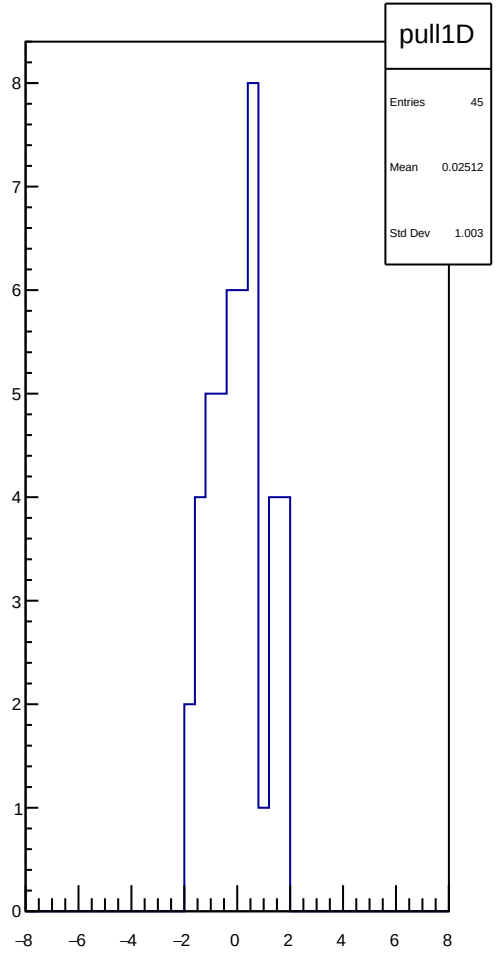
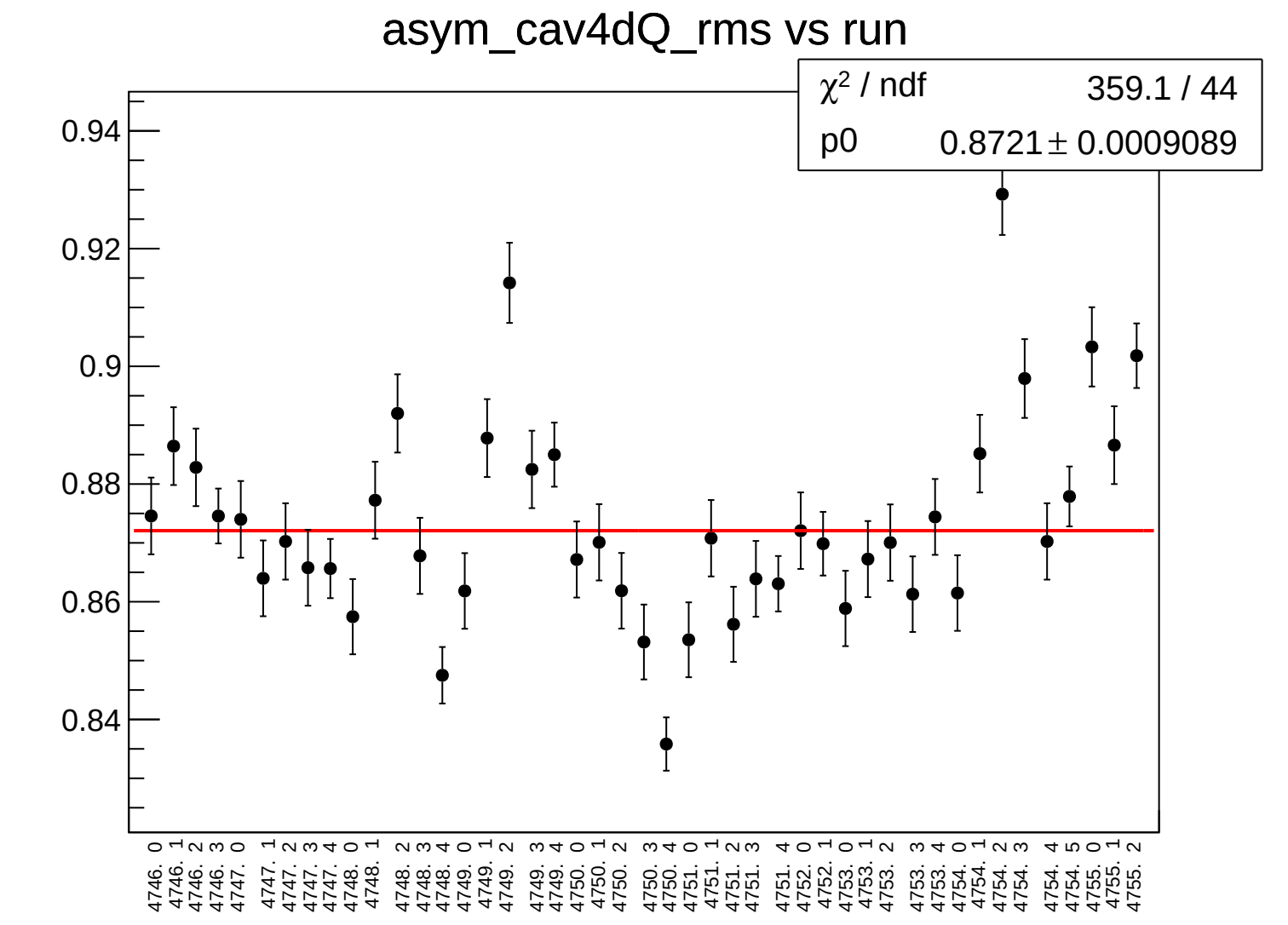
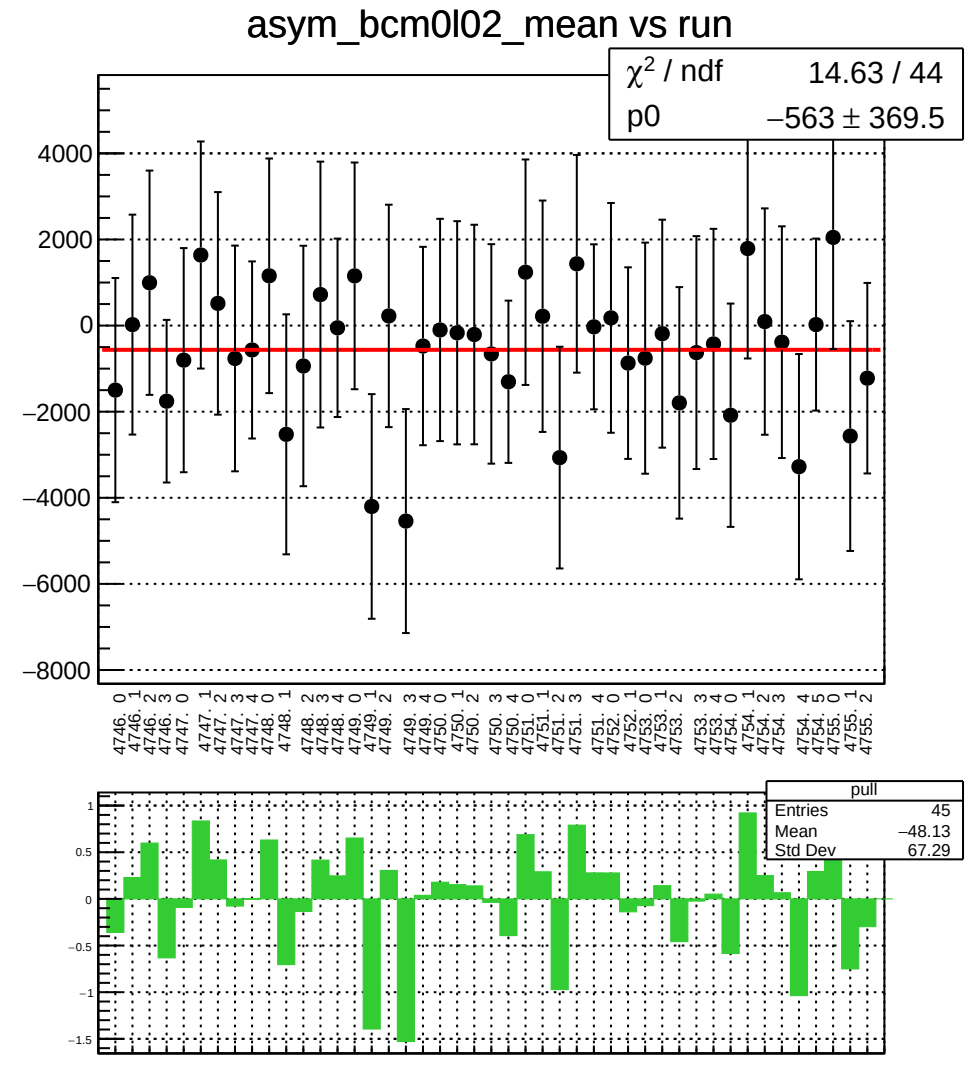
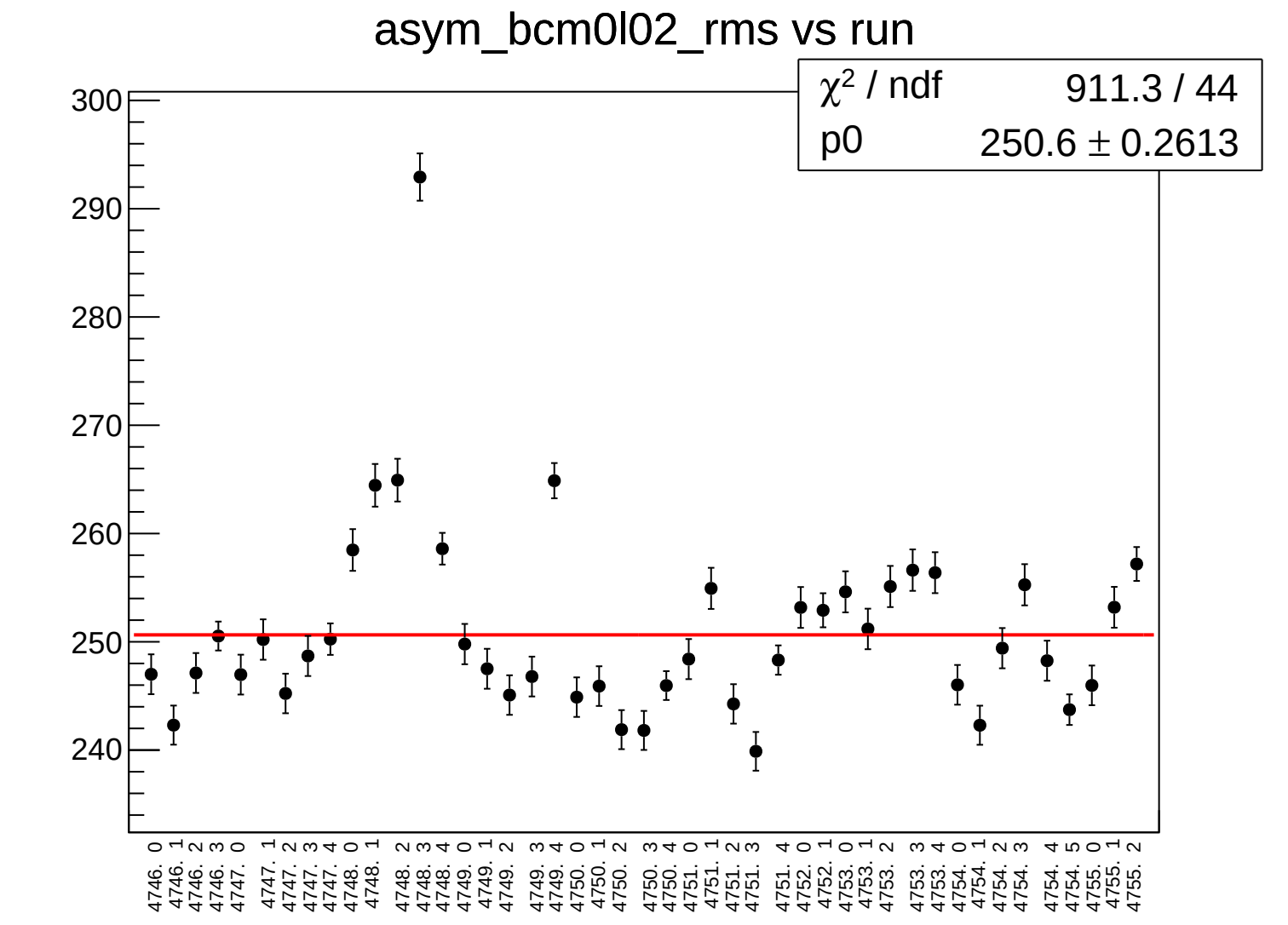
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

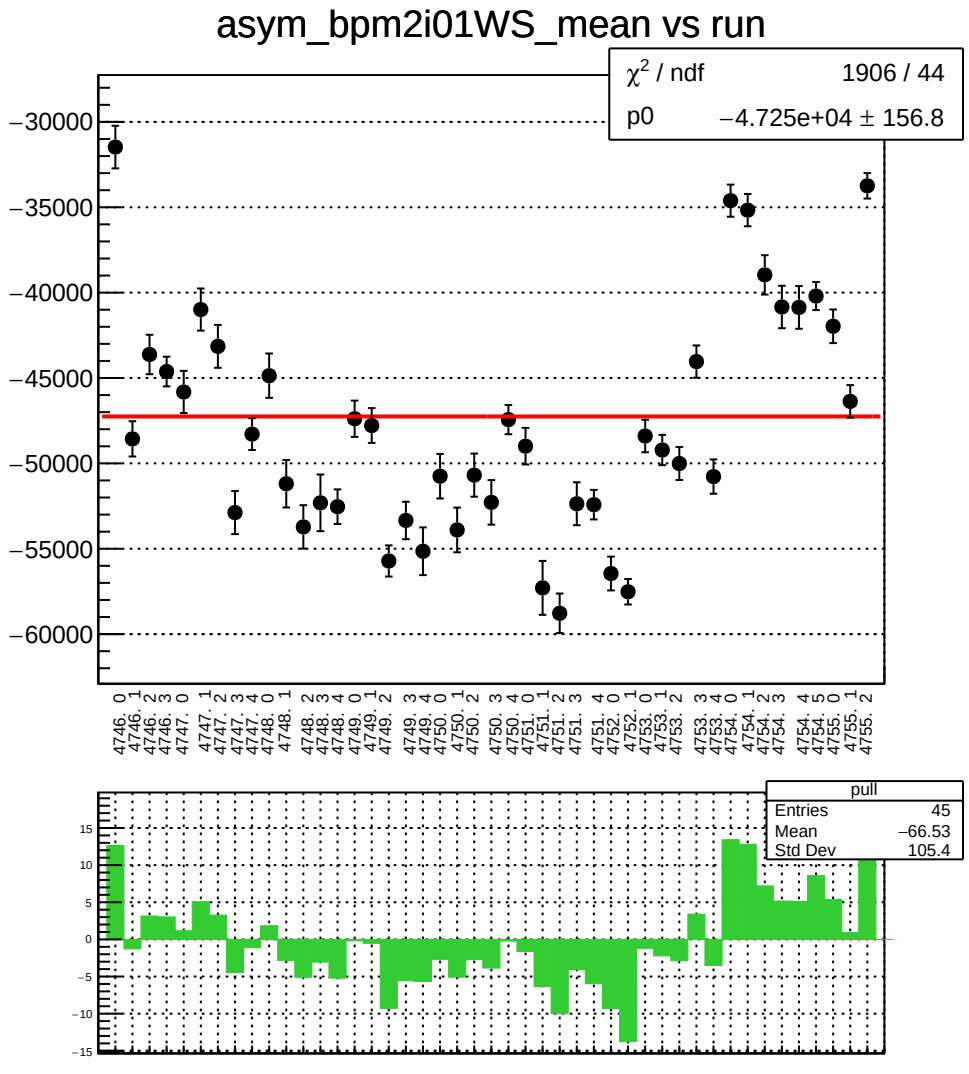

asym_cav4dQ_mean vs run
χ² / ndf 45.29 / 44
p0 −0.1302 ± 1.285
pull
Entries 45
Mean 5.561
Std Dev 38.1

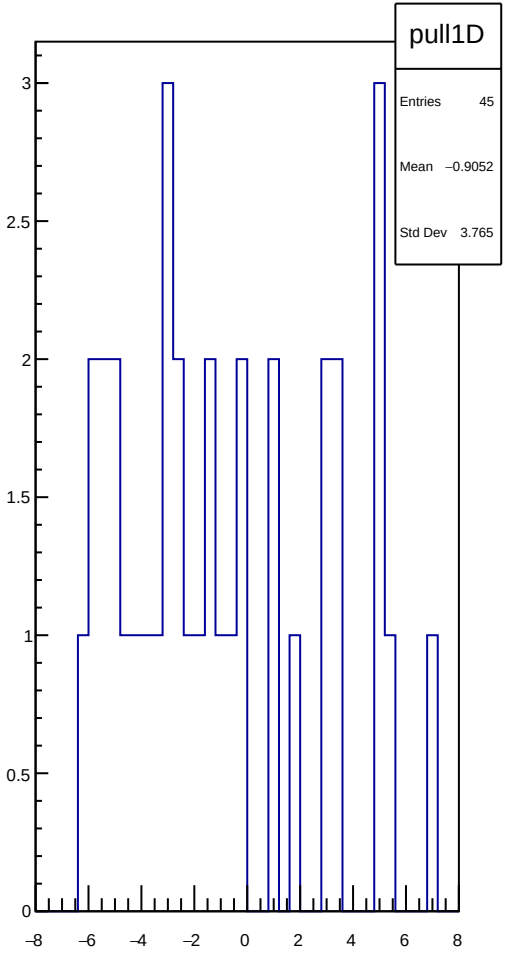

pull1D
Entries 45
Mean 0.02512
Std Dev 1.003

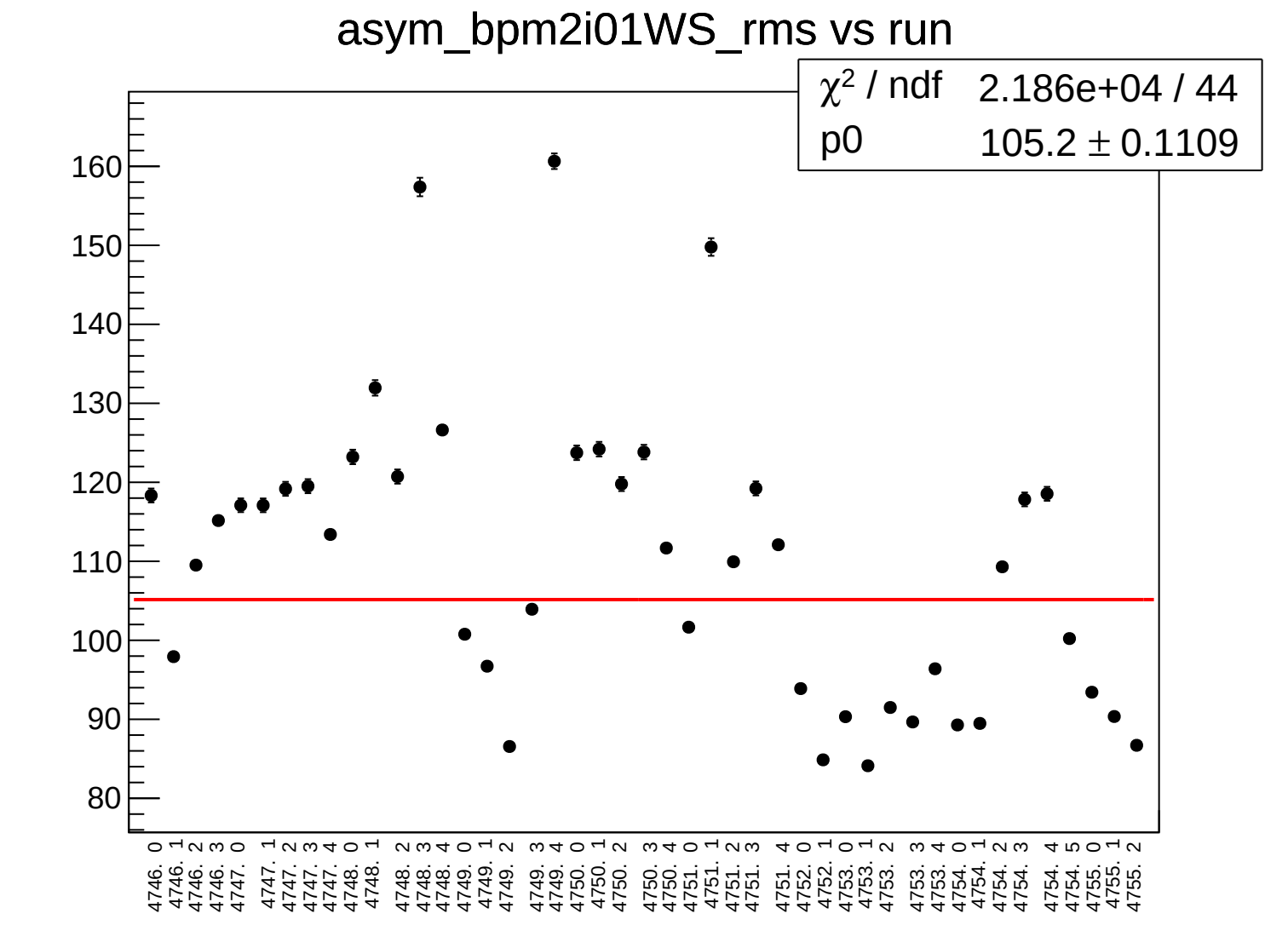

asym_cav4dQ_rms vs run
χ² / ndf 359.1 / 44
p0 0.8721 ± 0.0009089
0.94
0.92
0.9
0.88
0.86
0.84
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

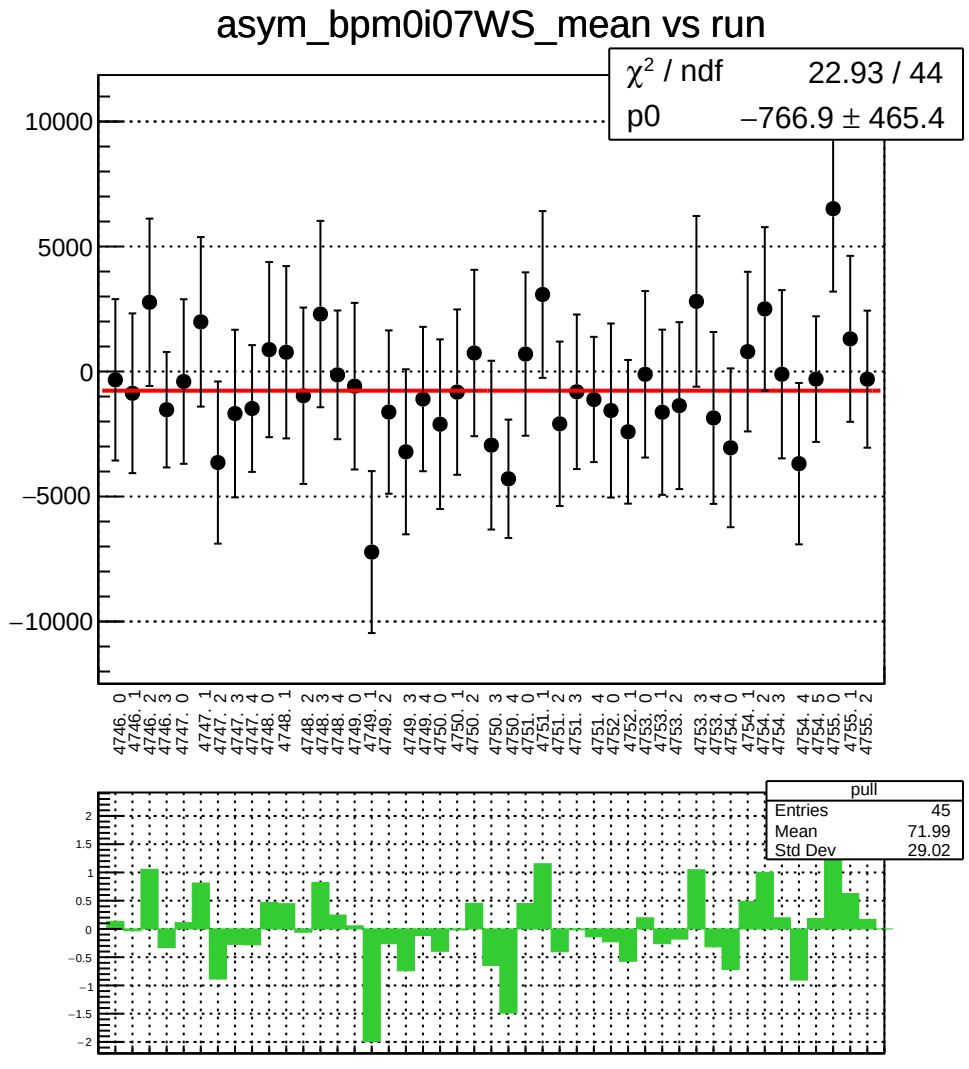

asym_bcm0l02_mean vs run
χ² / ndf 14.63 / 44
p0 −563 ± 369.5
4000
2000
0
−2000
−4000
−6000
−8000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −48.13
Std Dev 67.29
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.004512
Std Dev 0.5702
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

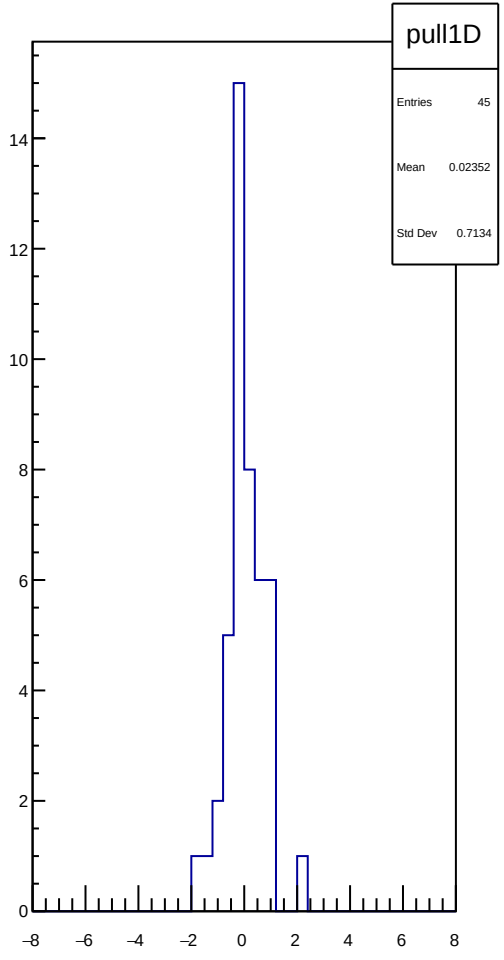

asym_bcm0l02_rms vs run
χ² / ndf 911.3 / 44
p0 250.6 ± 0.2613
300
290
280
270
260
250
240
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

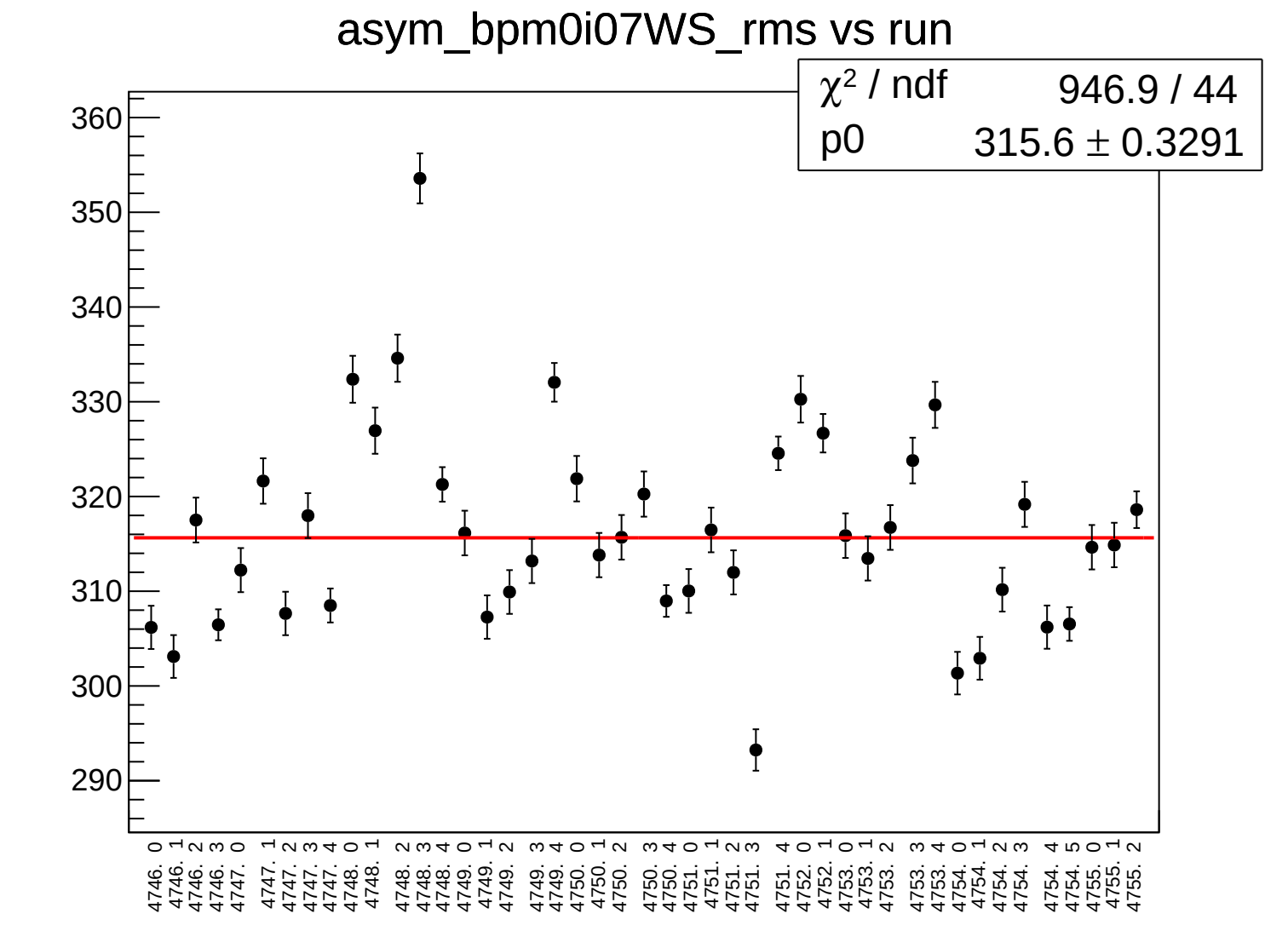

asym_bpm2i01WS_mean vs run
χ² / ndf 1906 / 44
p0 −4.725e+04 ± 156.8
−30000
−35000
−40000
−45000
−50000
−55000
−60000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −66.53
Std Dev 105.4
15
10
5
0
−5
−10
−15

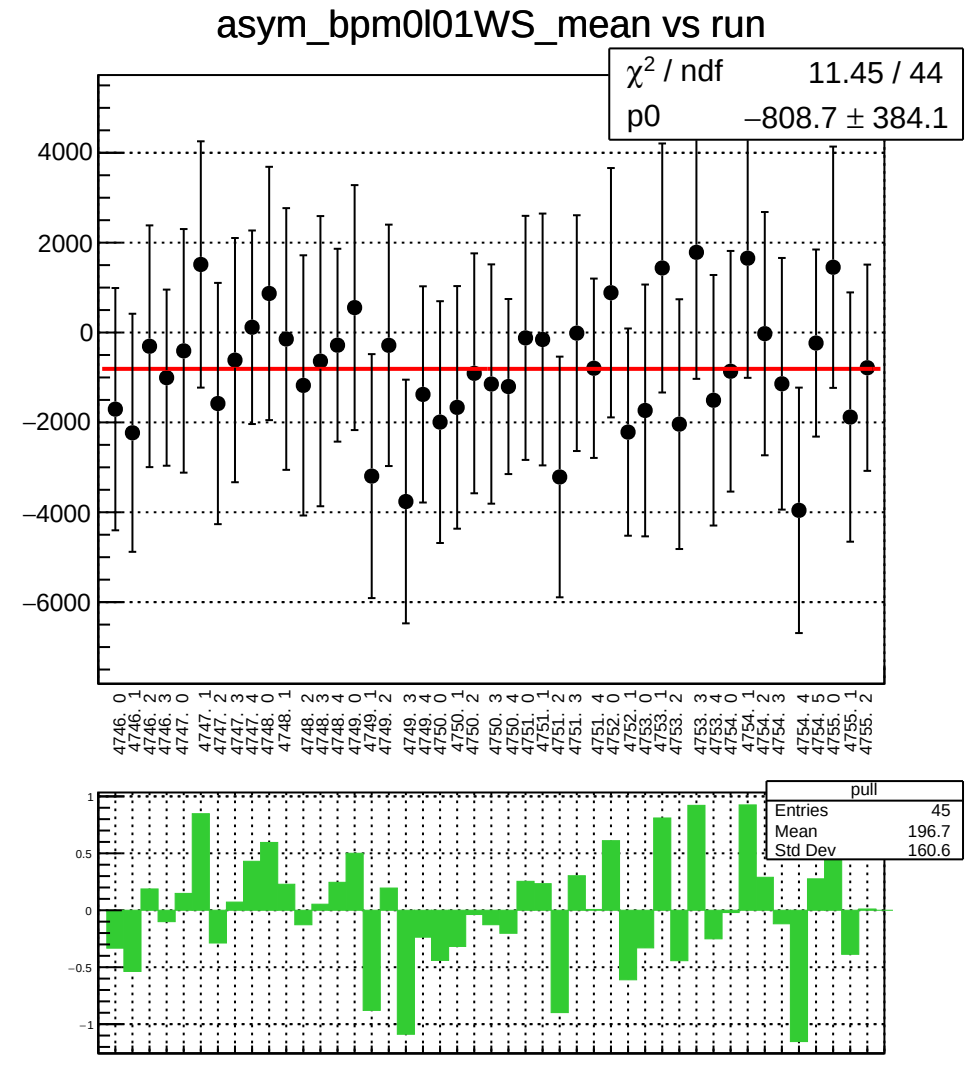

pull1D
Entries 45
Mean −0.9052
Std Dev 3.765
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

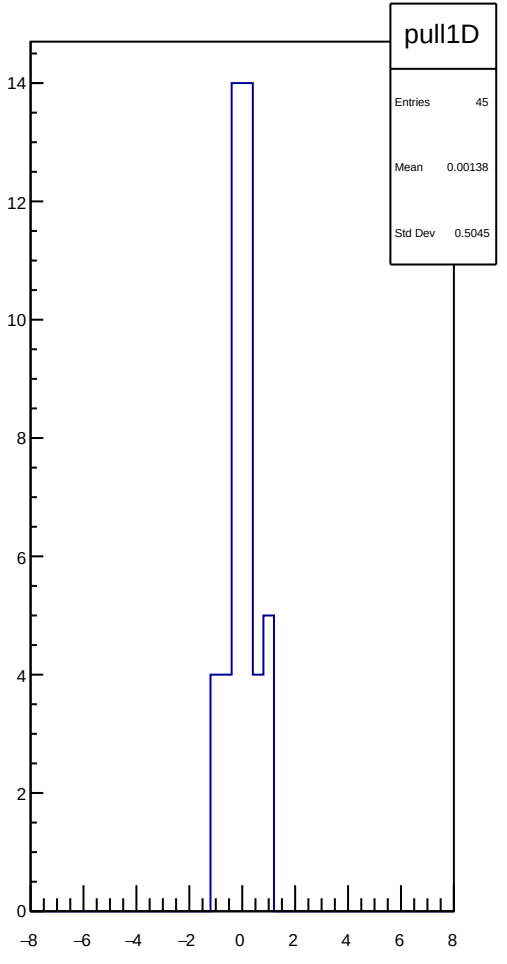

asym_bpm2i01WS_rms vs run
χ^2 / ndf 2.186e+04 / 44
p0 105.2 ± 0.1109
160
150
140
130
120
110
100
90
80
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

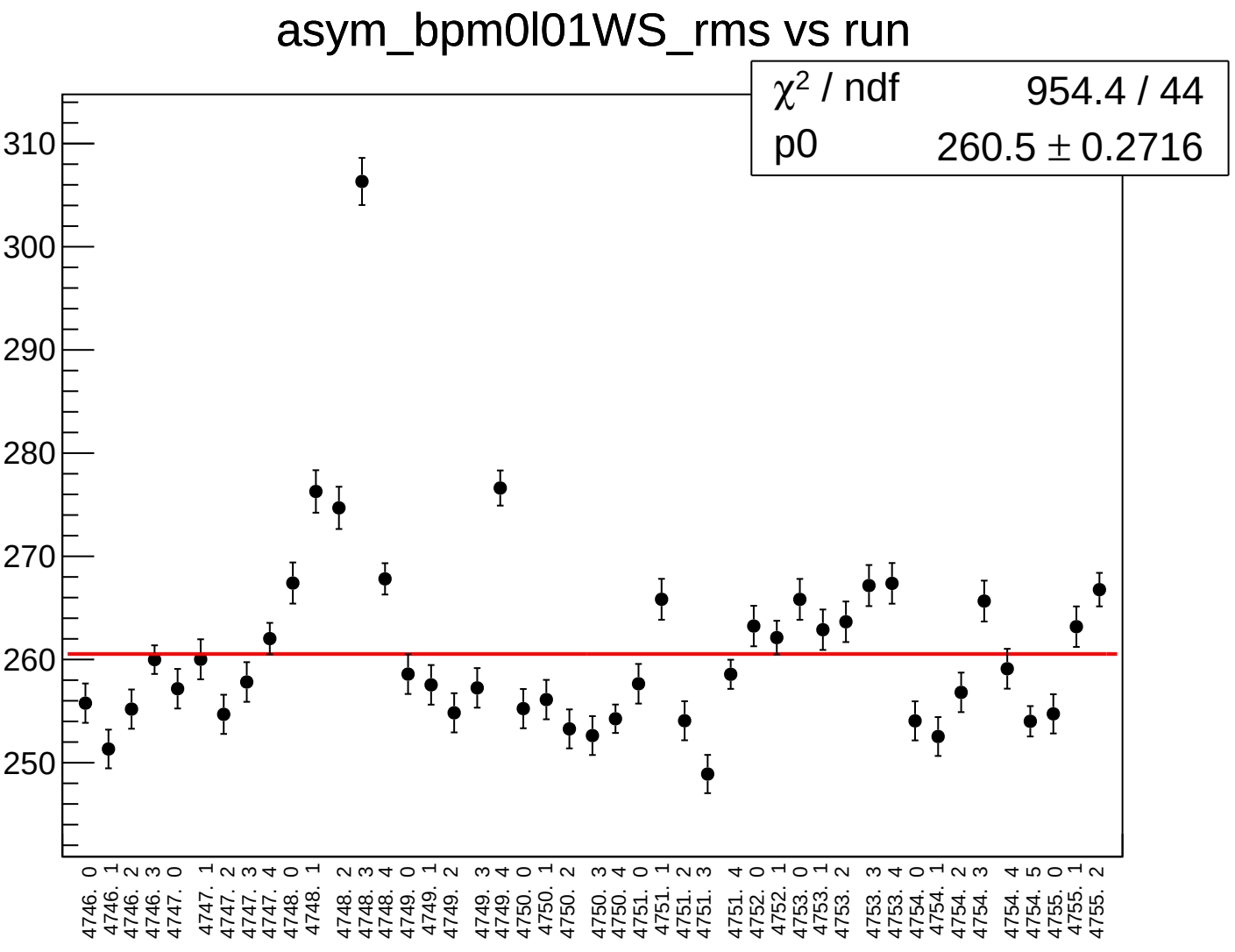

asym_bpm0i07WS_mean vs run
χ² / ndf 22.93 / 44
p0 −766.9 ± 465.4
10000
5000
0
−5000
−10000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 71.99
Std Dev 29.02
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

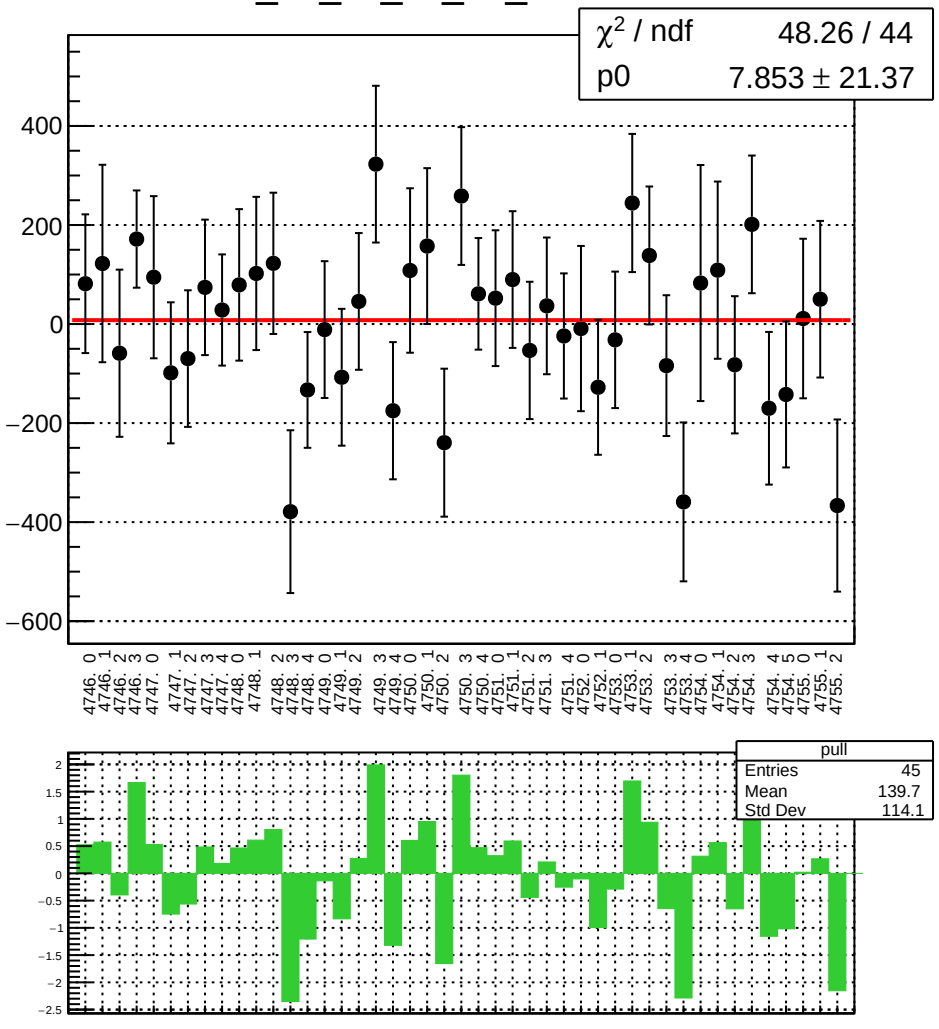

pull1D
Entries 45
Mean 0.02352
Std Dev 0.7134
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

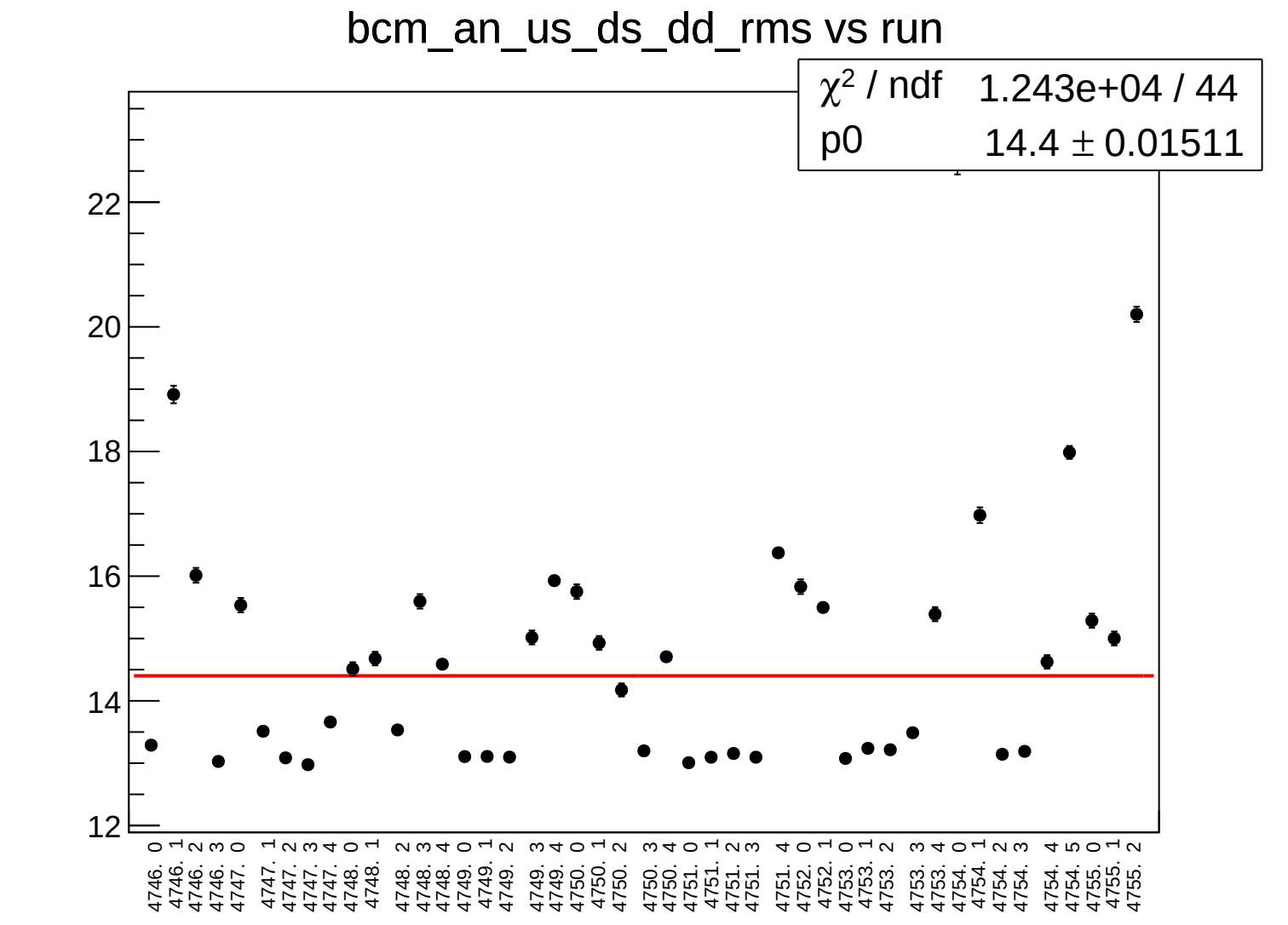

asym_bpm0i07WS_rms vs run
χ² / ndf 946.9 / 44
p0 315.6 ± 0.3291
360
350
340
330
320
310
300
290
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

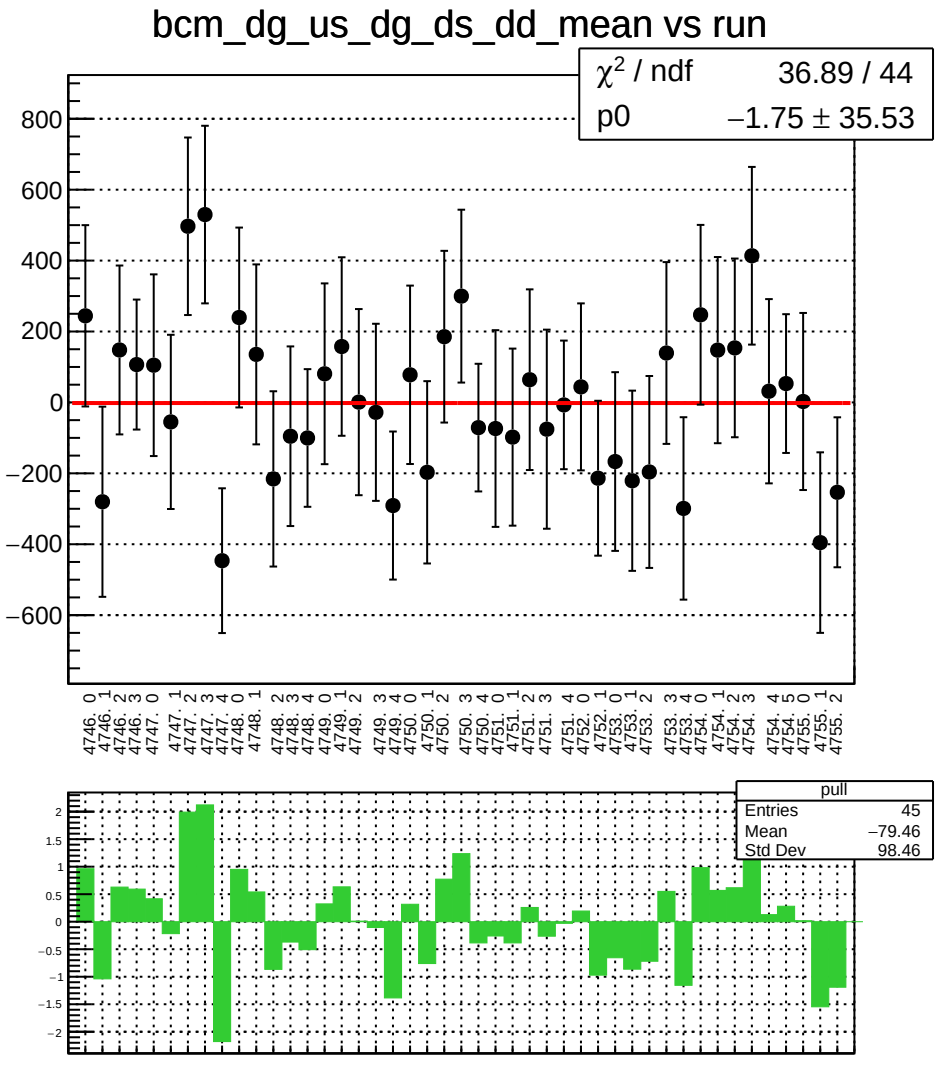

asym_bpm0l01WS_mean vs run
χ² / ndf 11.45 / 44
p0 −808.7 ± 384.1
4000
2000
0
−2000
−4000
−6000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 196.7
Std Dev 160.6
1
0.5
0
−0.5
−1

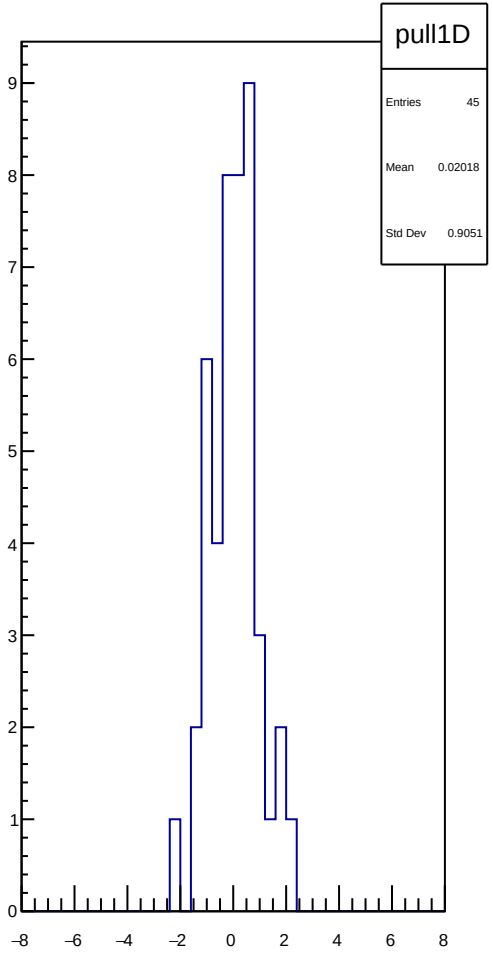

pull1D
Entries 45
Mean 0.00138
Std Dev 0.5045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

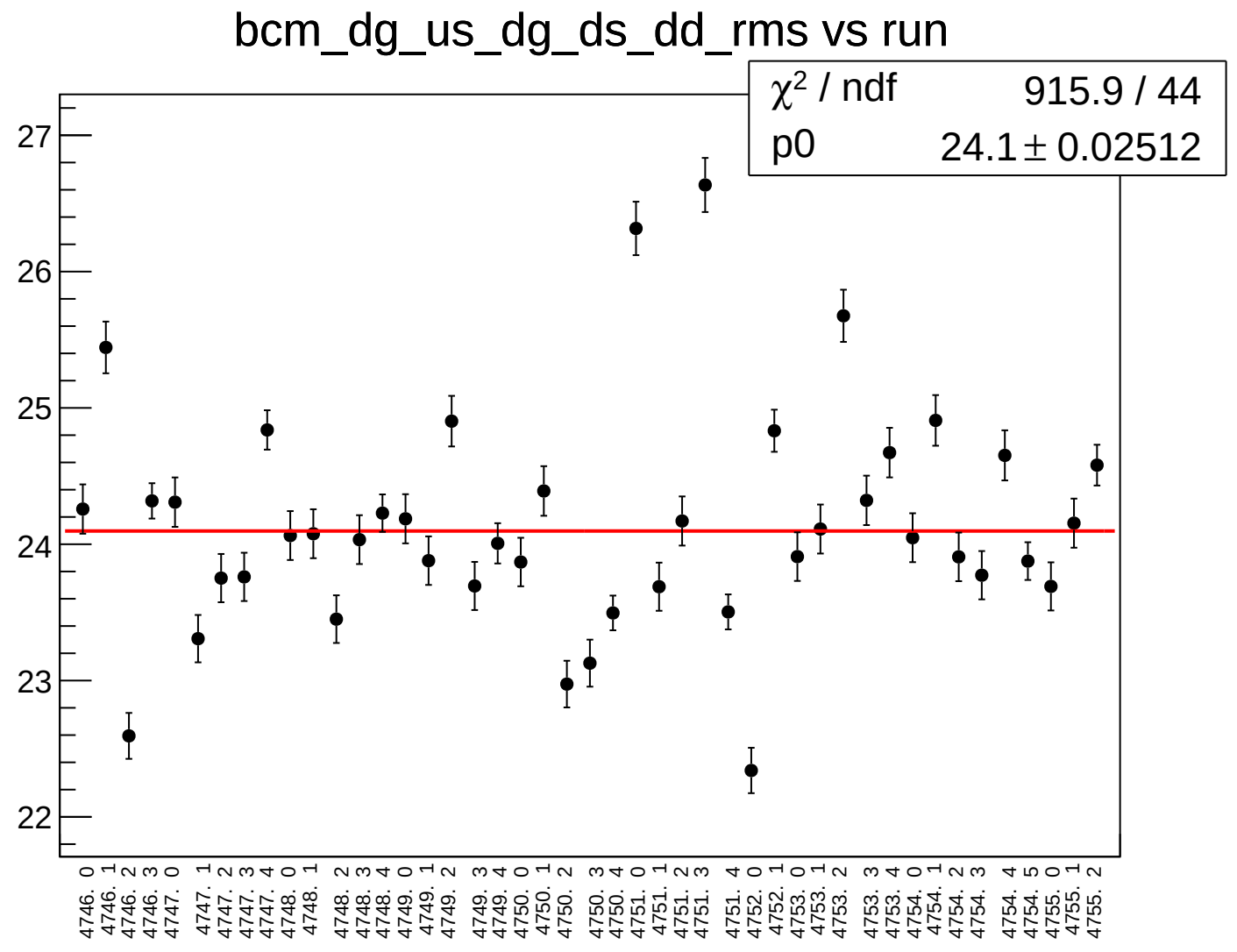

asym_bpm0l01WS_rms vs run
χ² / ndf 954.4 / 44
p0 260.5 ± 0.2716
310
300
290
280
270
260
250
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

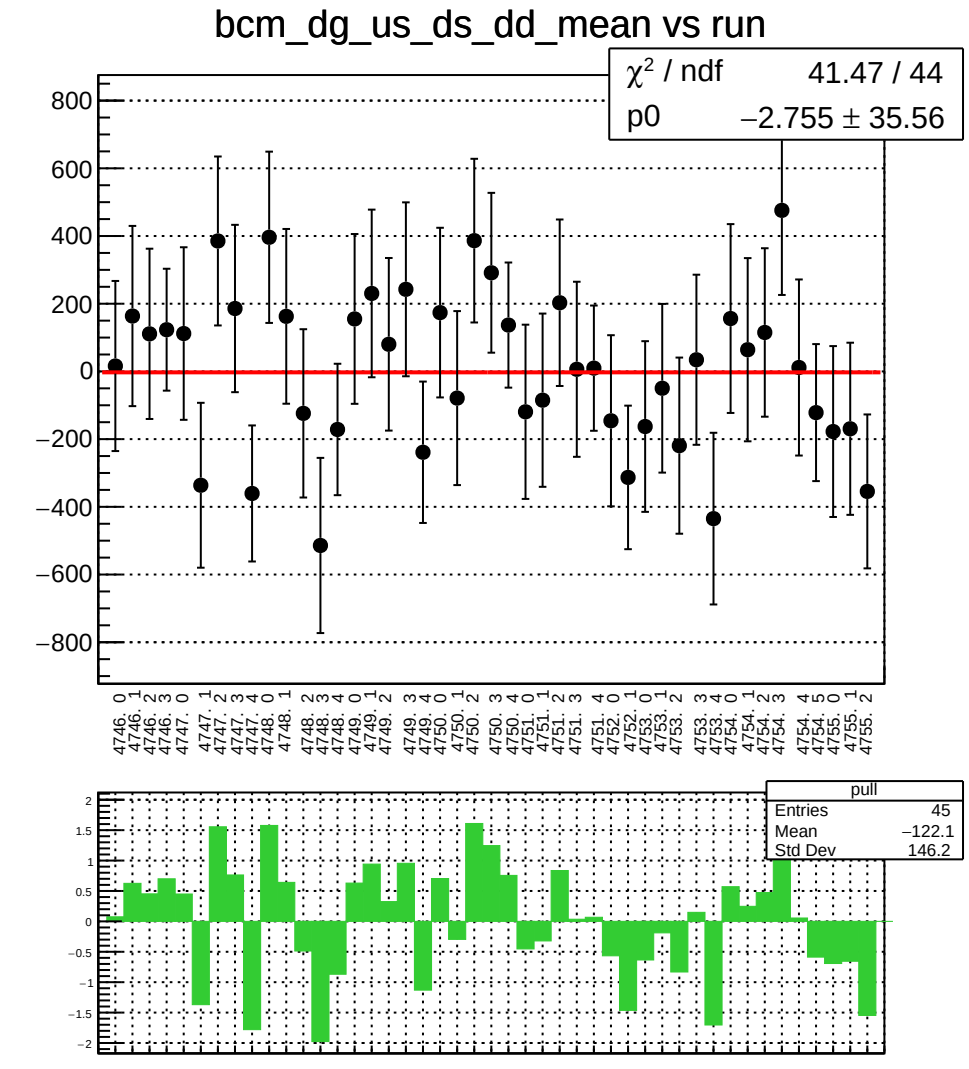

bcm_an_us_ds_dd_mean vs run
χ² / ndf 48.26 / 44
p0 7.853 ± 21.37
400
200
0
−200
−400
−600
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 139.7
Std Dev 114.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.02095
Std Dev 1.035
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

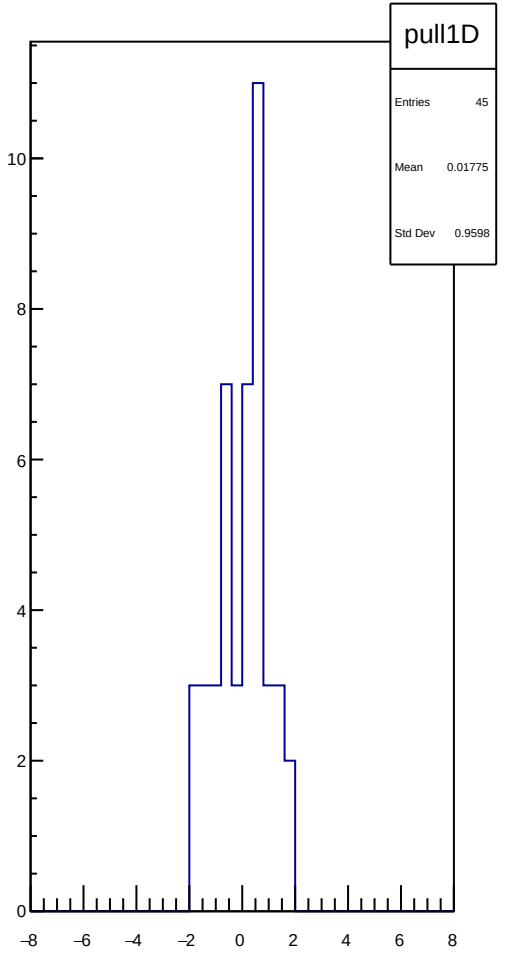

bcm_an_us_ds_dd_rms vs run
χ² / ndf 1.243e+04 / 44
p0 14.4 ± 0.01511
22
20
18
16
14
12
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

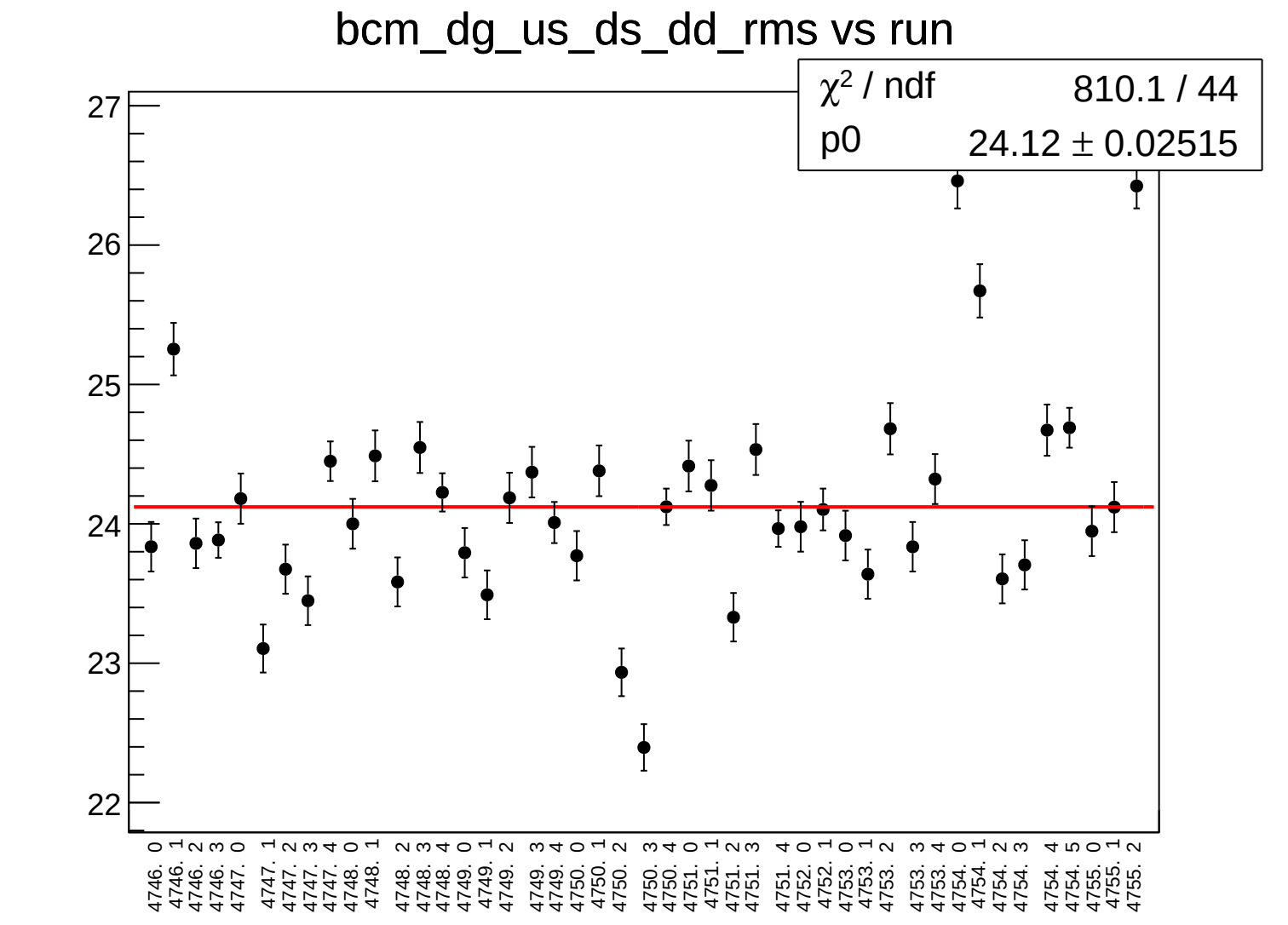

bcm_dg_us_dg_ds_dd_mean vs run
χ^2 / ndf 36.89 / 44
p0 −1.75 ± 35.53
800
600
400
200
0
−200
−400
−600
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −79.46
Std Dev 98.46
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

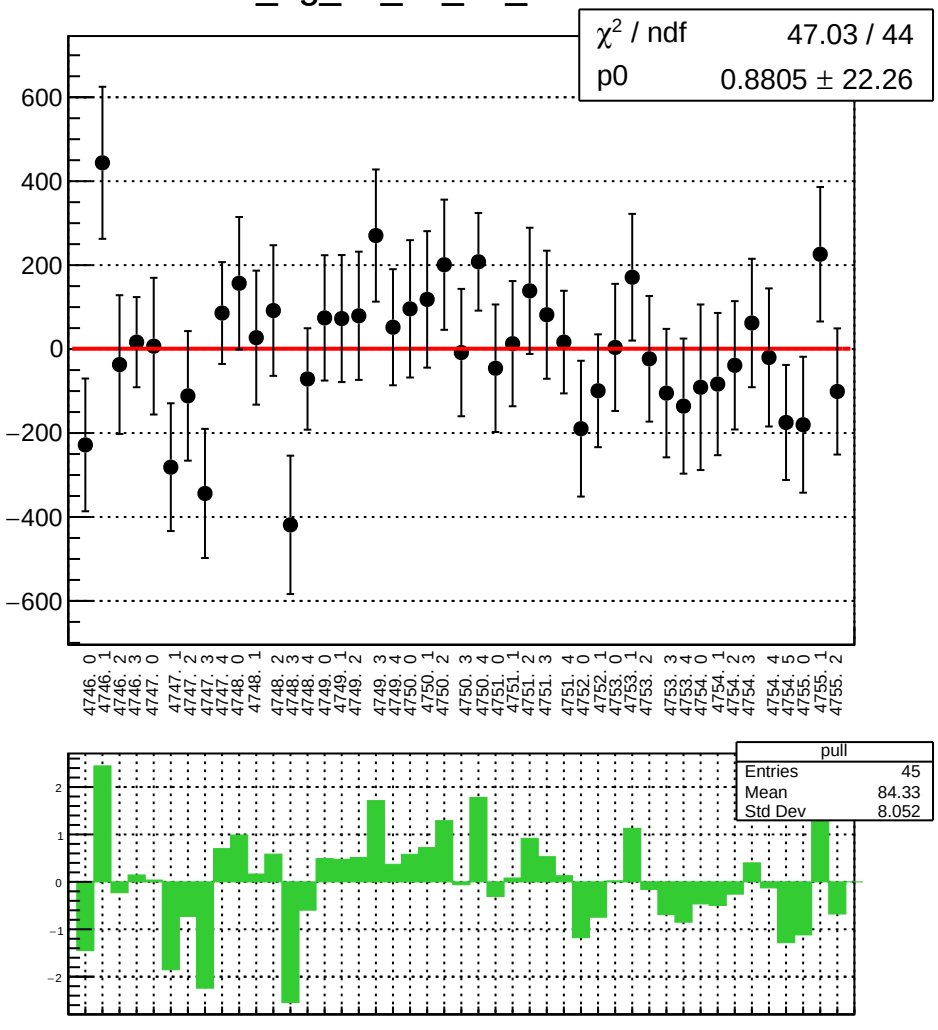

pull1D
Entries 45
Mean 0.02018
Std Dev 0.9051
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

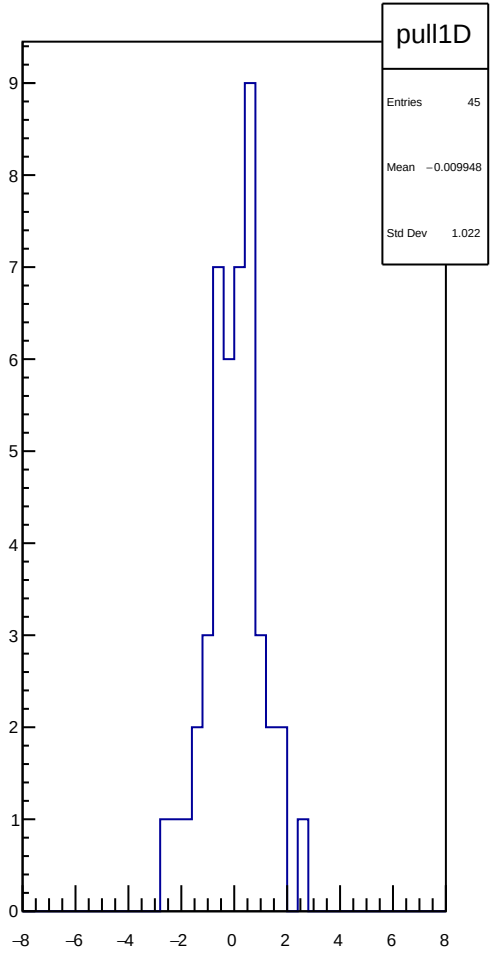

bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 915.9 / 44
p0 24.1 ± 0.02512
27
26
25
24
23
22
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

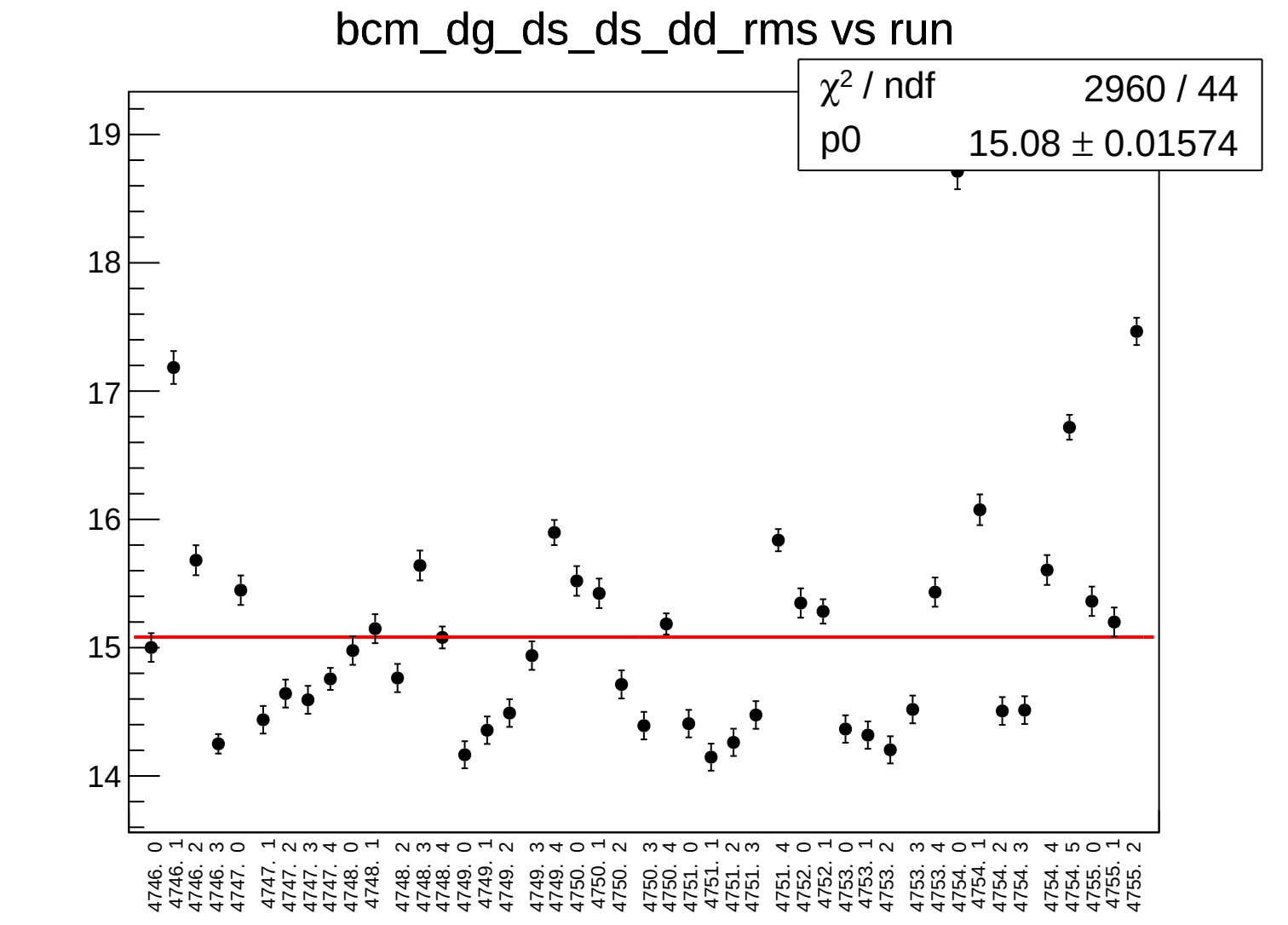

bcm_dg_us_ds_dd_mean vs run
χ² / ndf 41.47 / 44
p0 −2.755 ± 35.56
pull
Entries 45
Mean −122.1
Std Dev 146.2

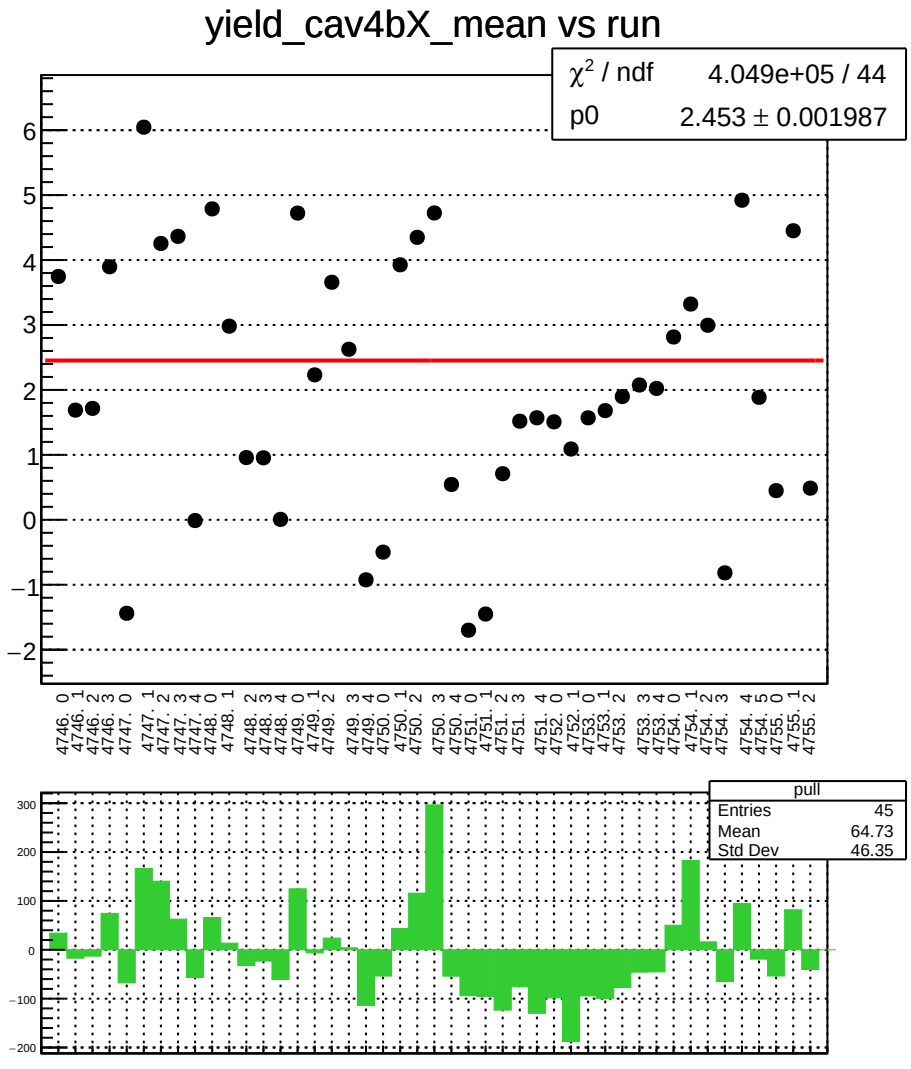

pull1D
Entries 45
Mean 0.01775
Std Dev 0.9598

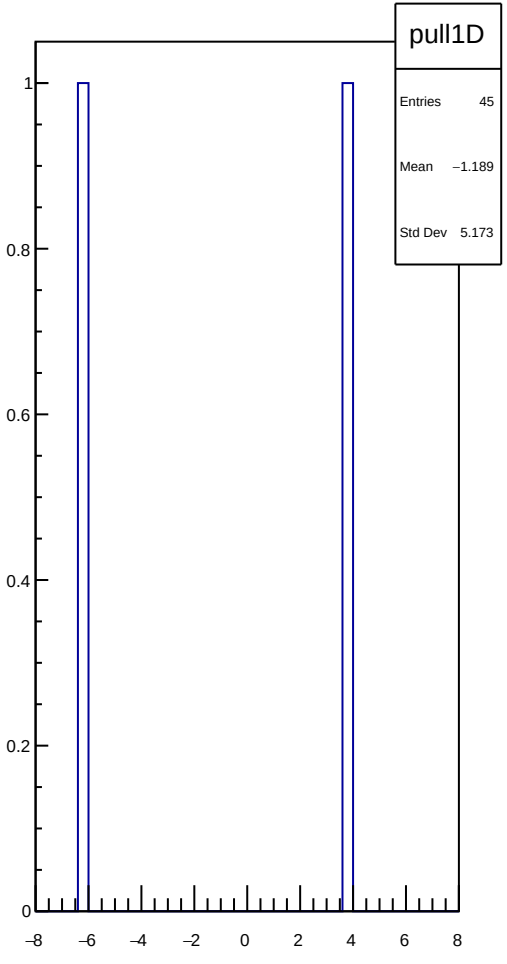

bcm_dg_us_ds_dd_rms vs run
χ² / ndf 810.1 / 44
p0 24.12 ± 0.02515
27
26
25
24
23
22
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

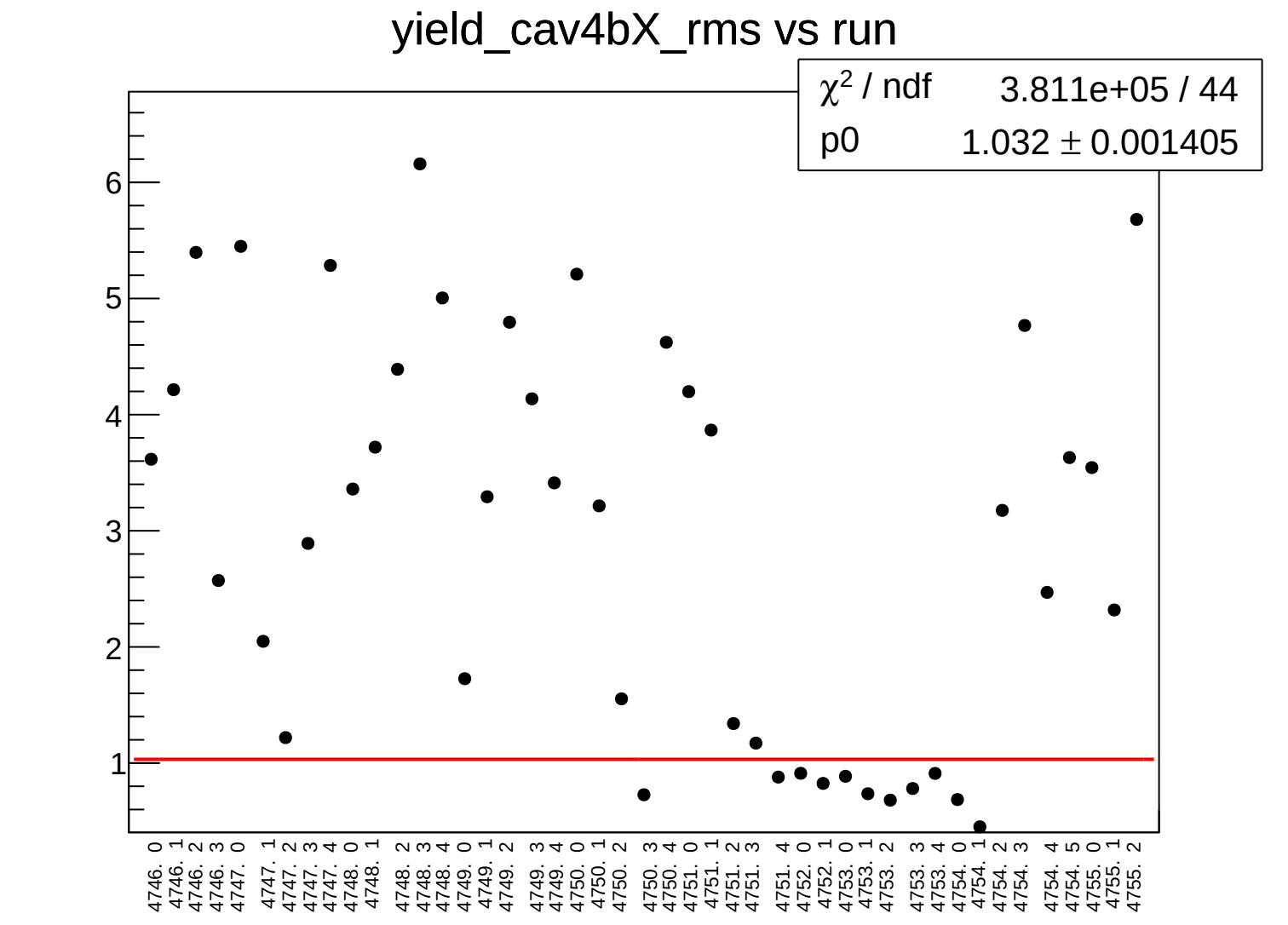

bcm_dg_ds_ds_dd_mean vs run
χ² / ndf 47.03 / 44
p0 0.8805 ± 22.26
pull
Entries 45
Mean 84.33
Std Dev 8.052

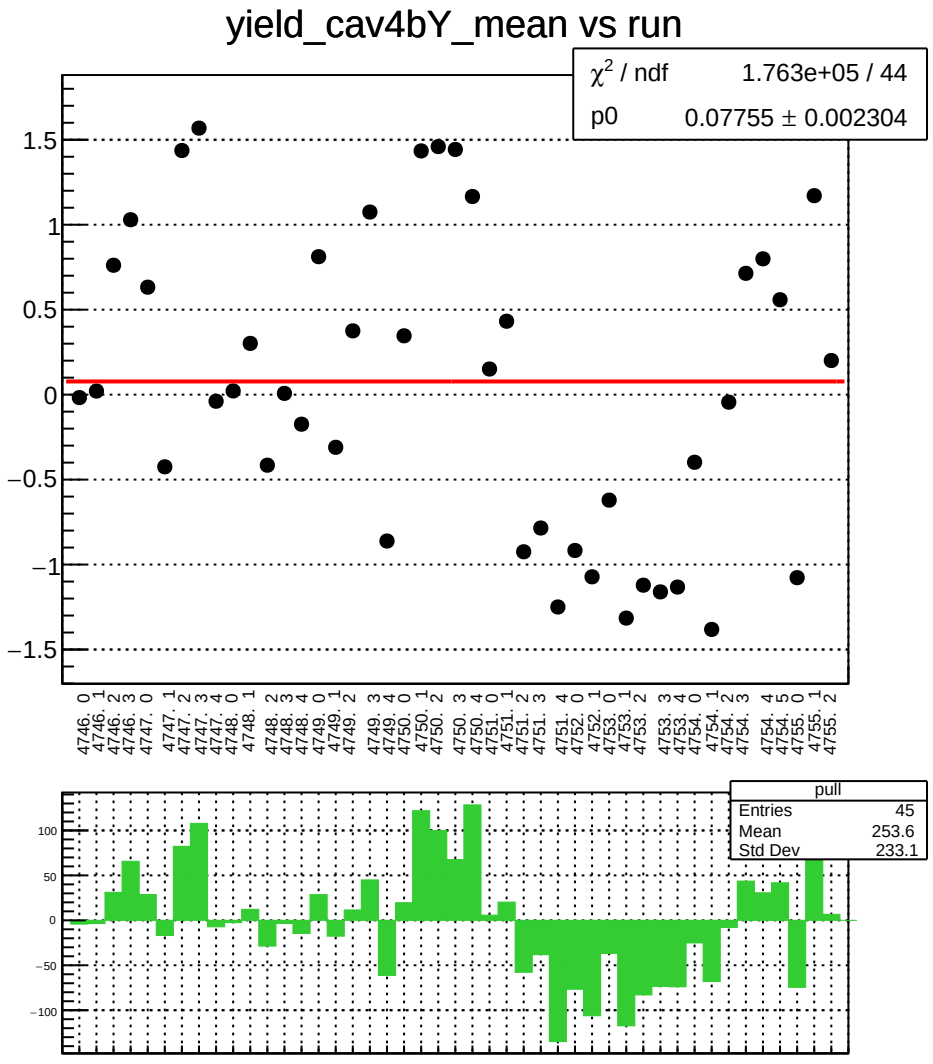

pull1D
Entries 45
Mean −0.009948
Std Dev 1.022

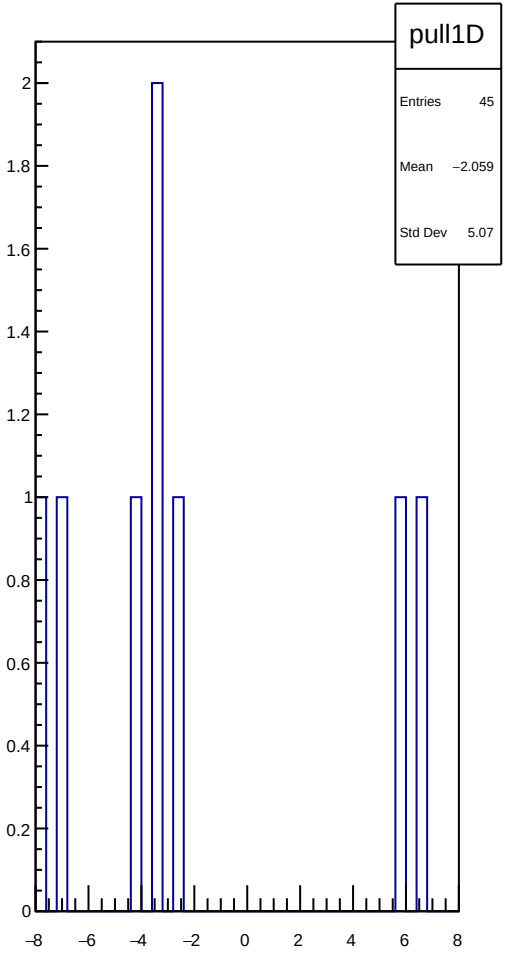

bcm_dg_ds_ds_dd_rms vs run
χ² / ndf 2960 / 44
p0 15.08 ± 0.01574
19
18
17
16
15
14
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

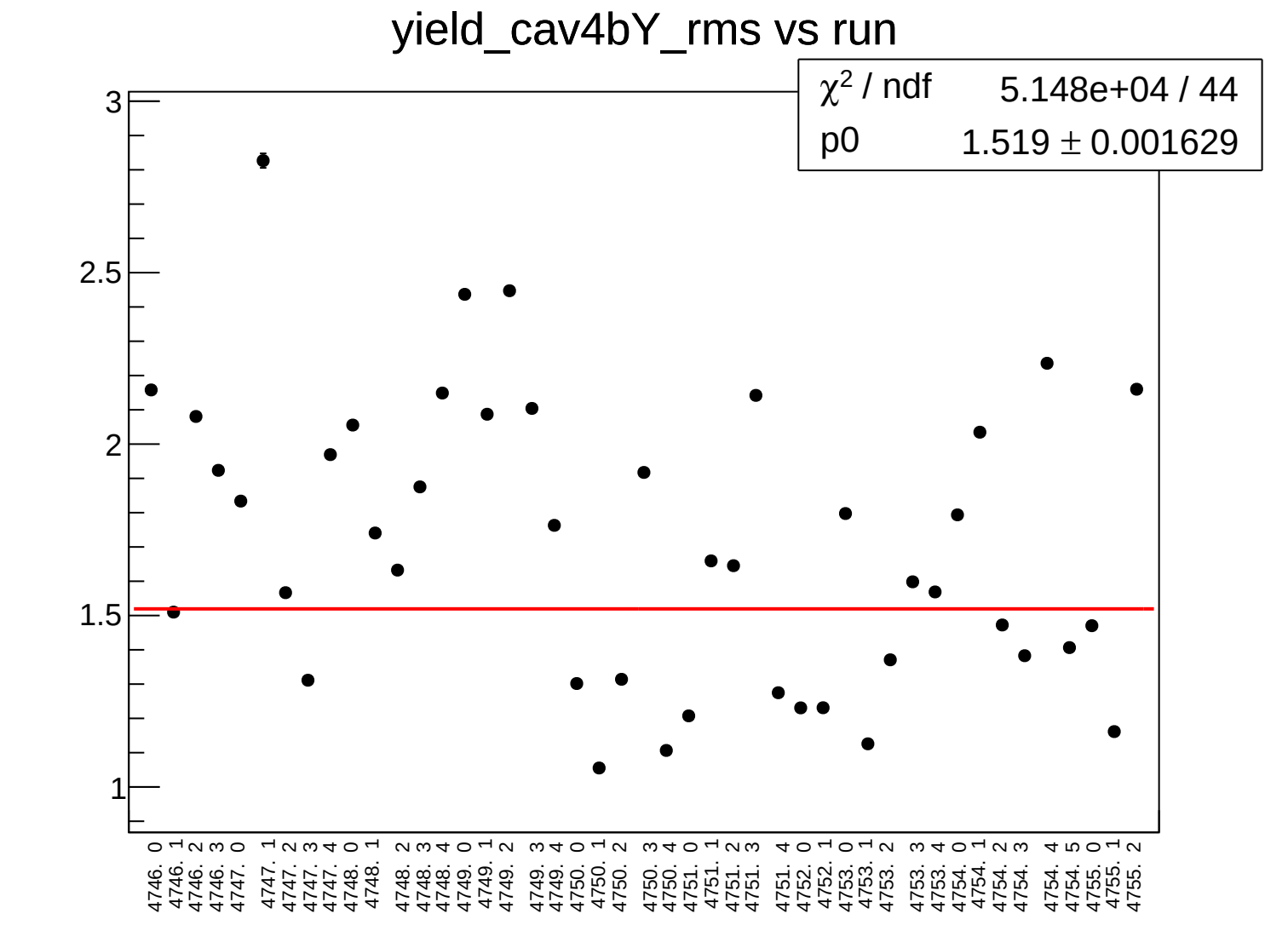

yield_cav4bX_mean vs run
χ² / ndf 4.049e+05 / 44
p0 2.453 ± 0.001987
pull
Entries 45
Mean 64.73
Std Dev 46.35

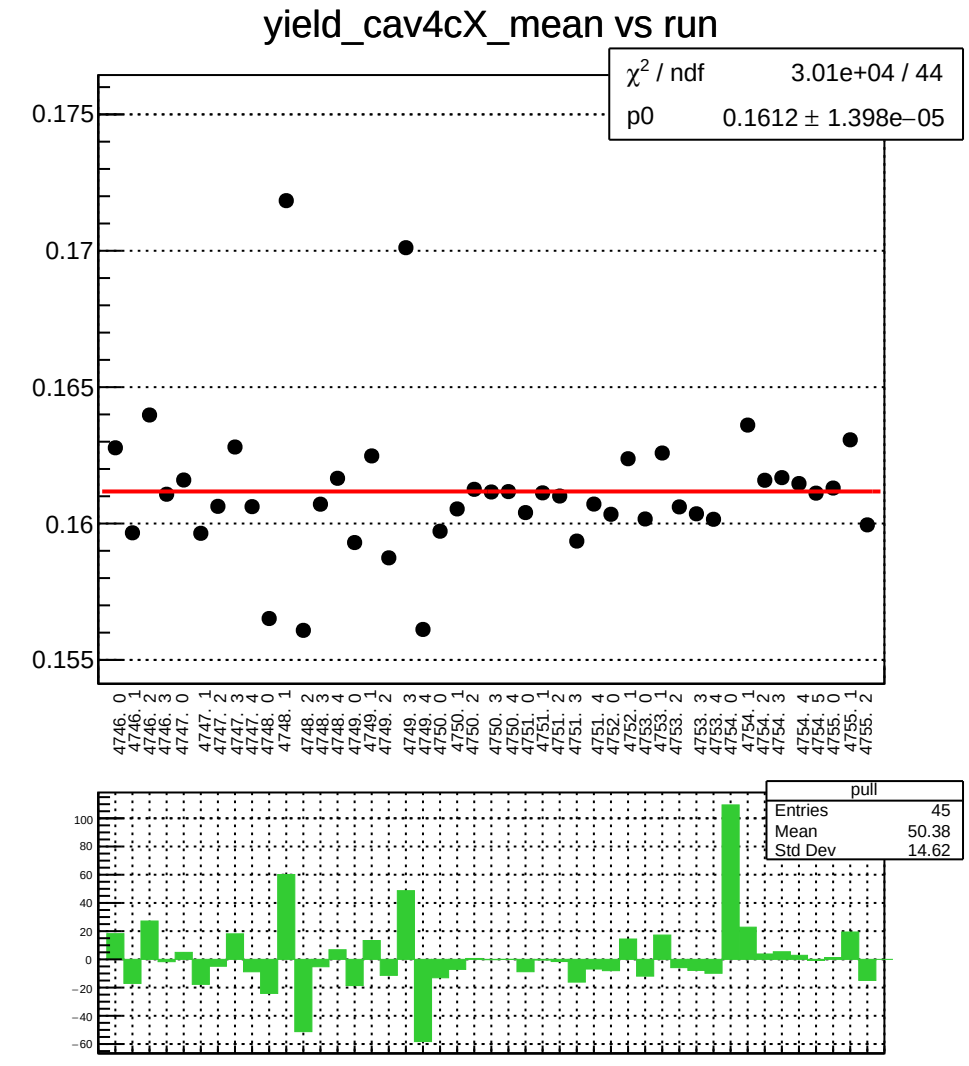

pull1D
Entries 45
Mean −1.189
Std Dev 5.173

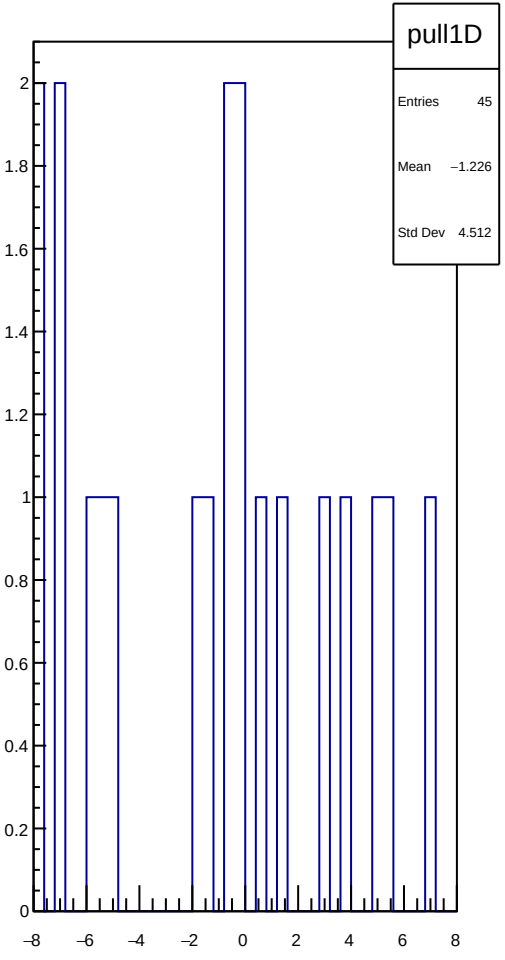

yield_cav4bX_rms vs run
χ² / ndf 3.811e+05 / 44
p0 1.032 ± 0.001405
6
5
4
3
2
1
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

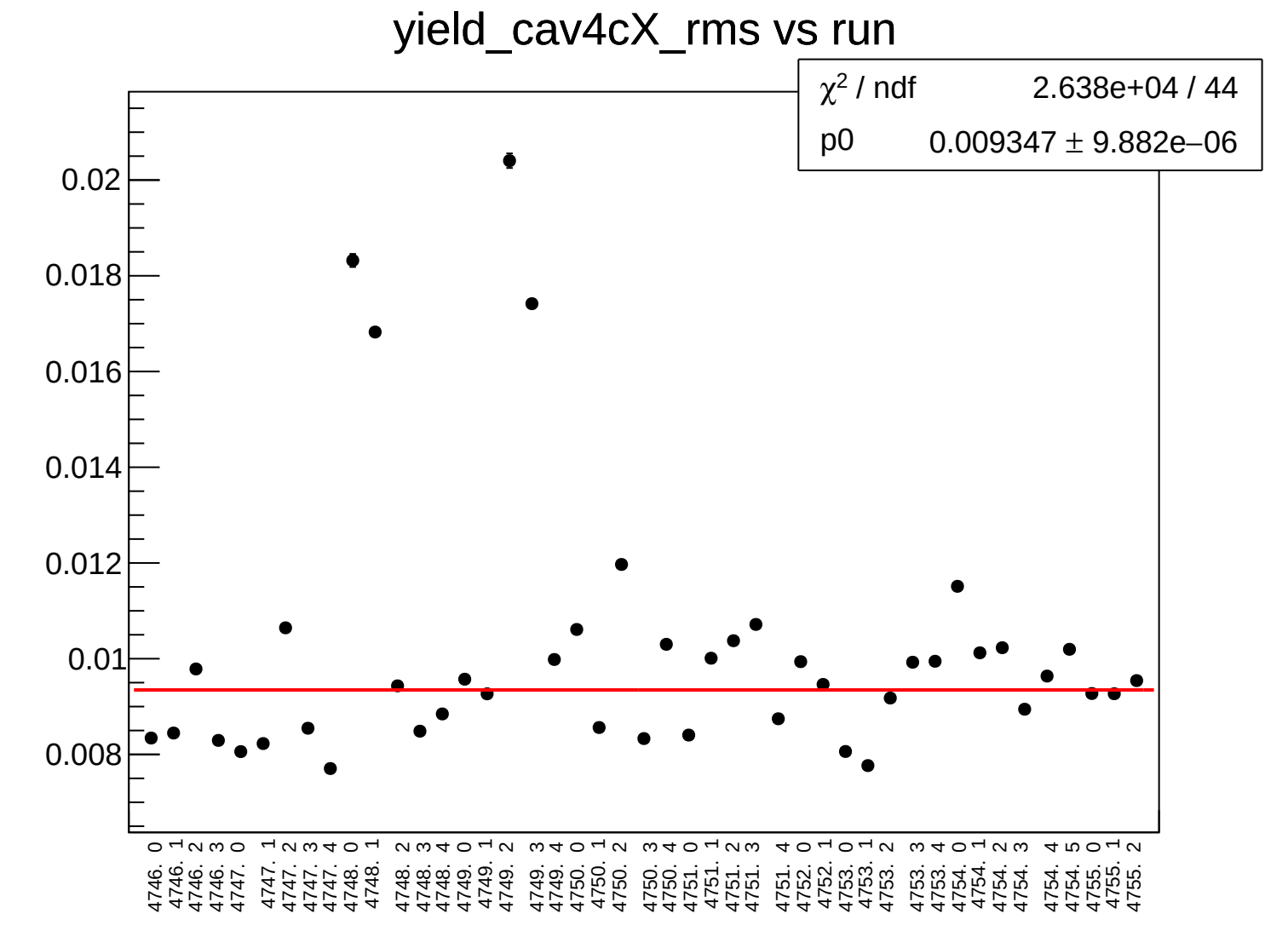

yield_cav4bY_mean vs run
χ² / ndf 1.763e+05 / 44
p0 0.07755 ± 0.002304
pull
Entries 45
Mean 253.6
Std Dev 233.1

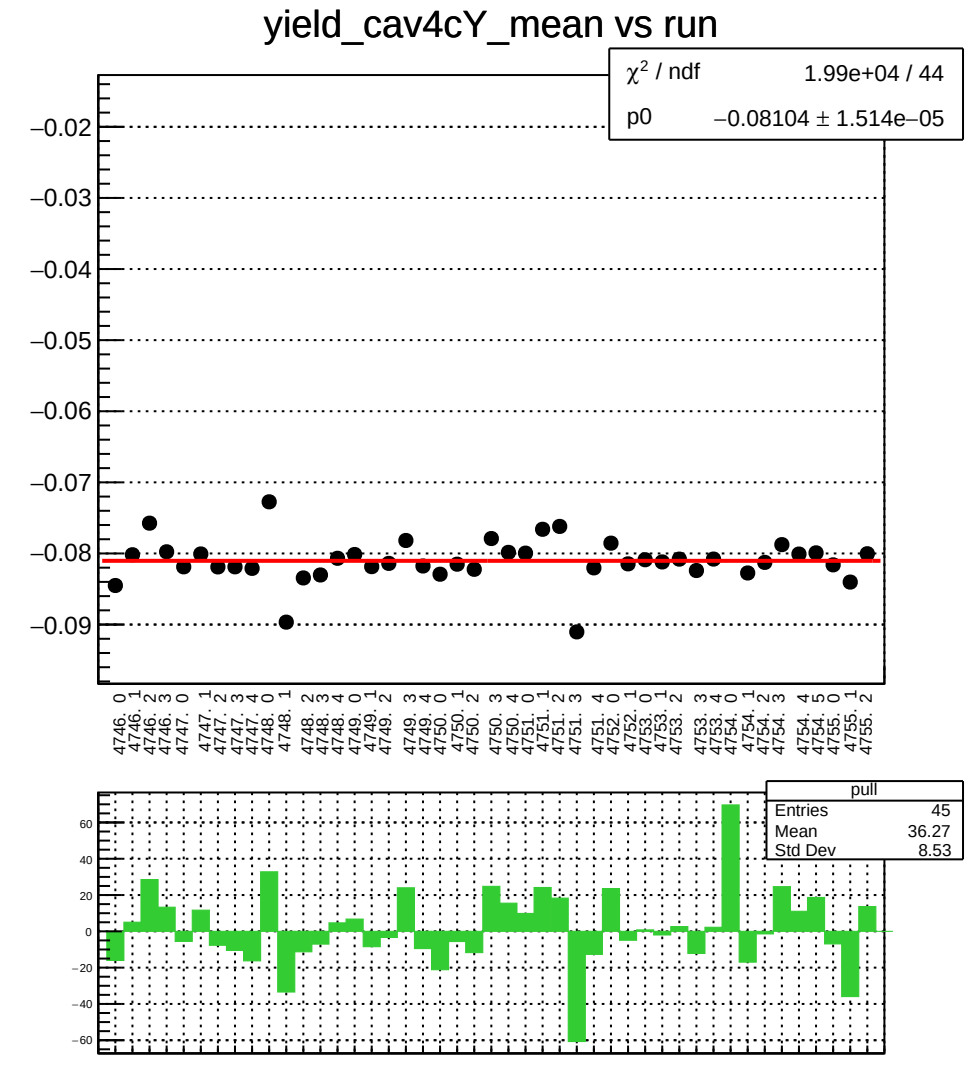

pull1D
Entries 45
Mean −2.059
Std Dev 5.07

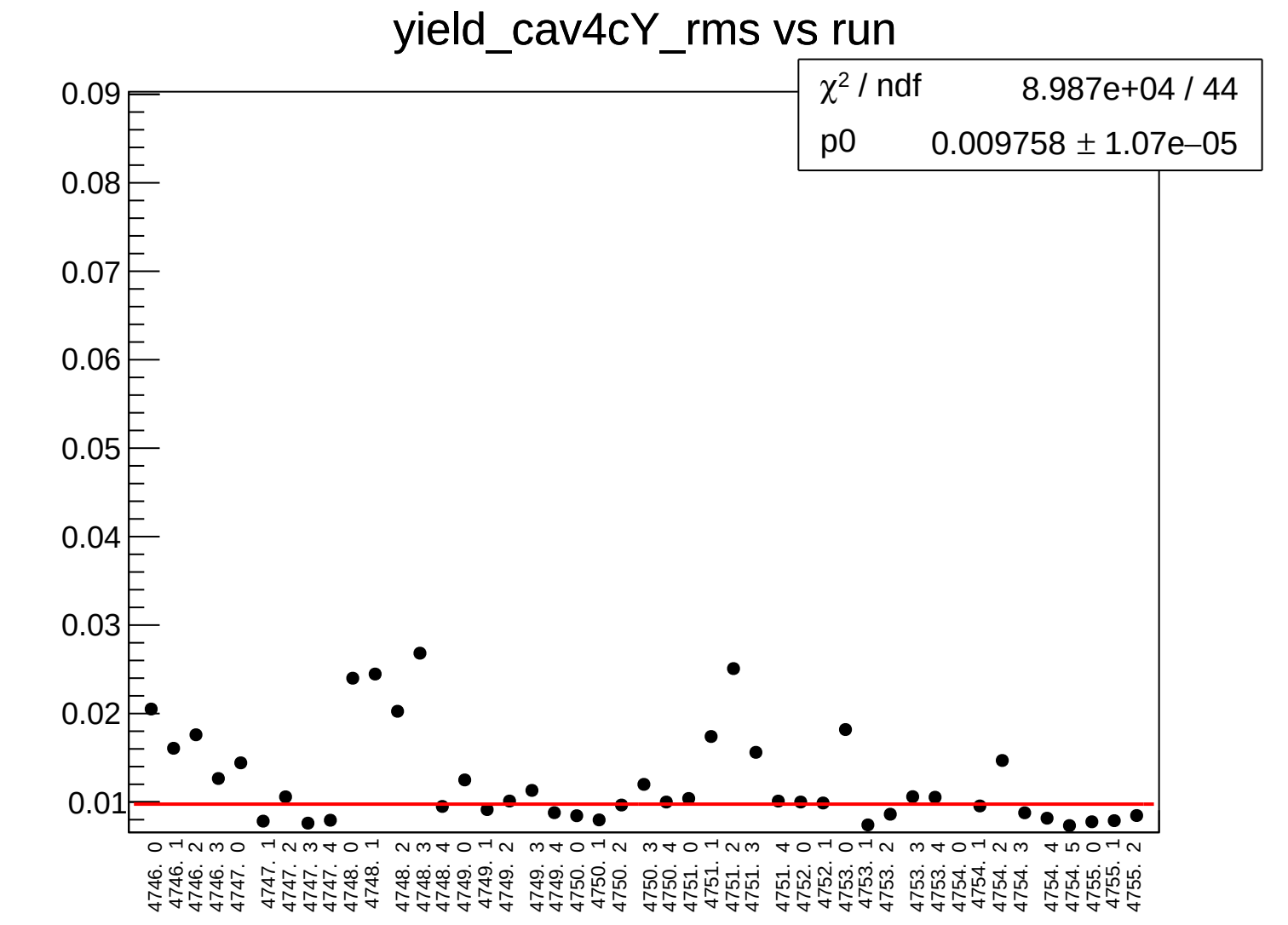

yield_cav4bY_rms vs run
χ² / ndf 5.148e+04 / 44
p0 1.519 ± 0.001629
3
2.5
2
1.5
1
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

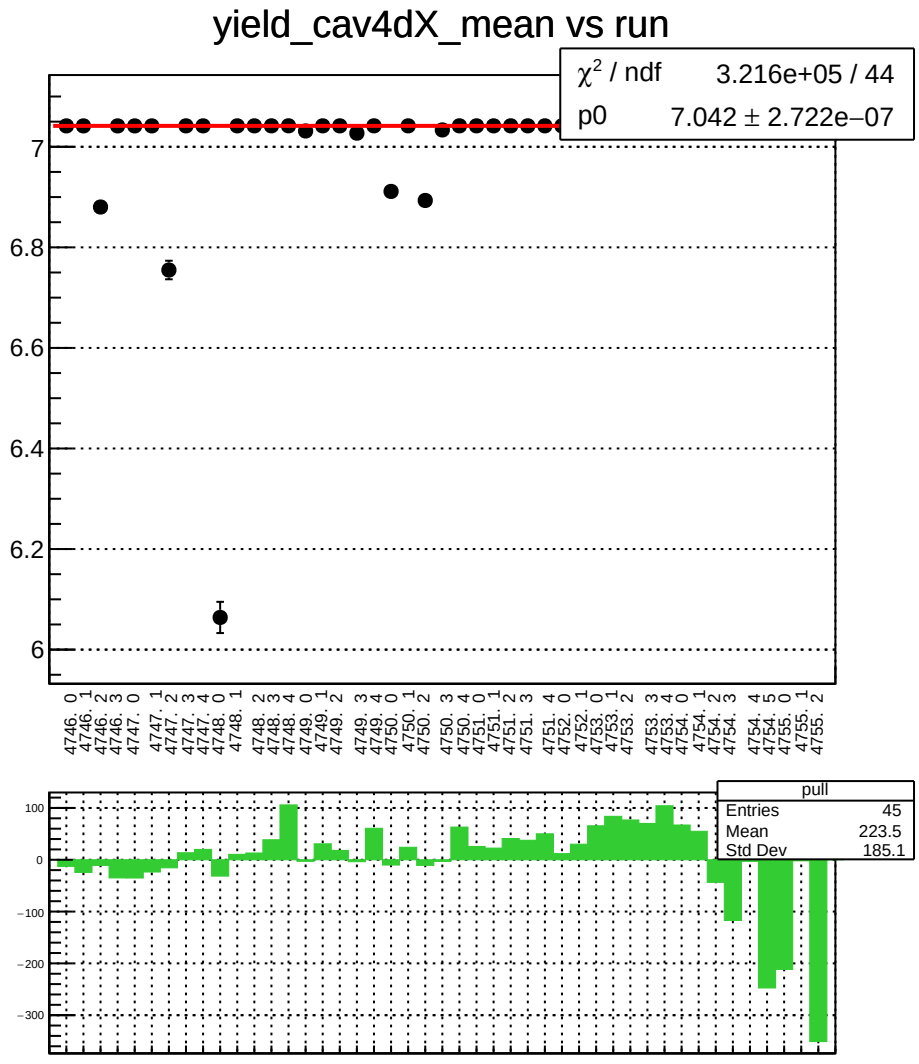

yield_cav4cX_mean vs run
χ² / ndf 3.01e+04 / 44
p0 0.1612 ± 1.398e−05
0.175
0.17
0.165
0.16
0.155
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 50.38
Std Dev 14.62
100
80
60
40
20
0
−20
−40
−60

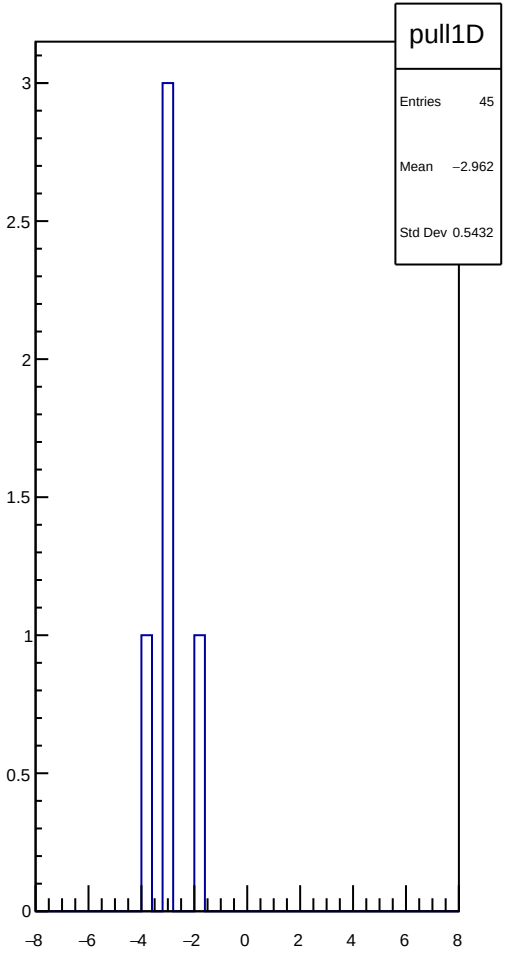

pull1D
Entries 45
Mean −1.226
Std Dev 4.512
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

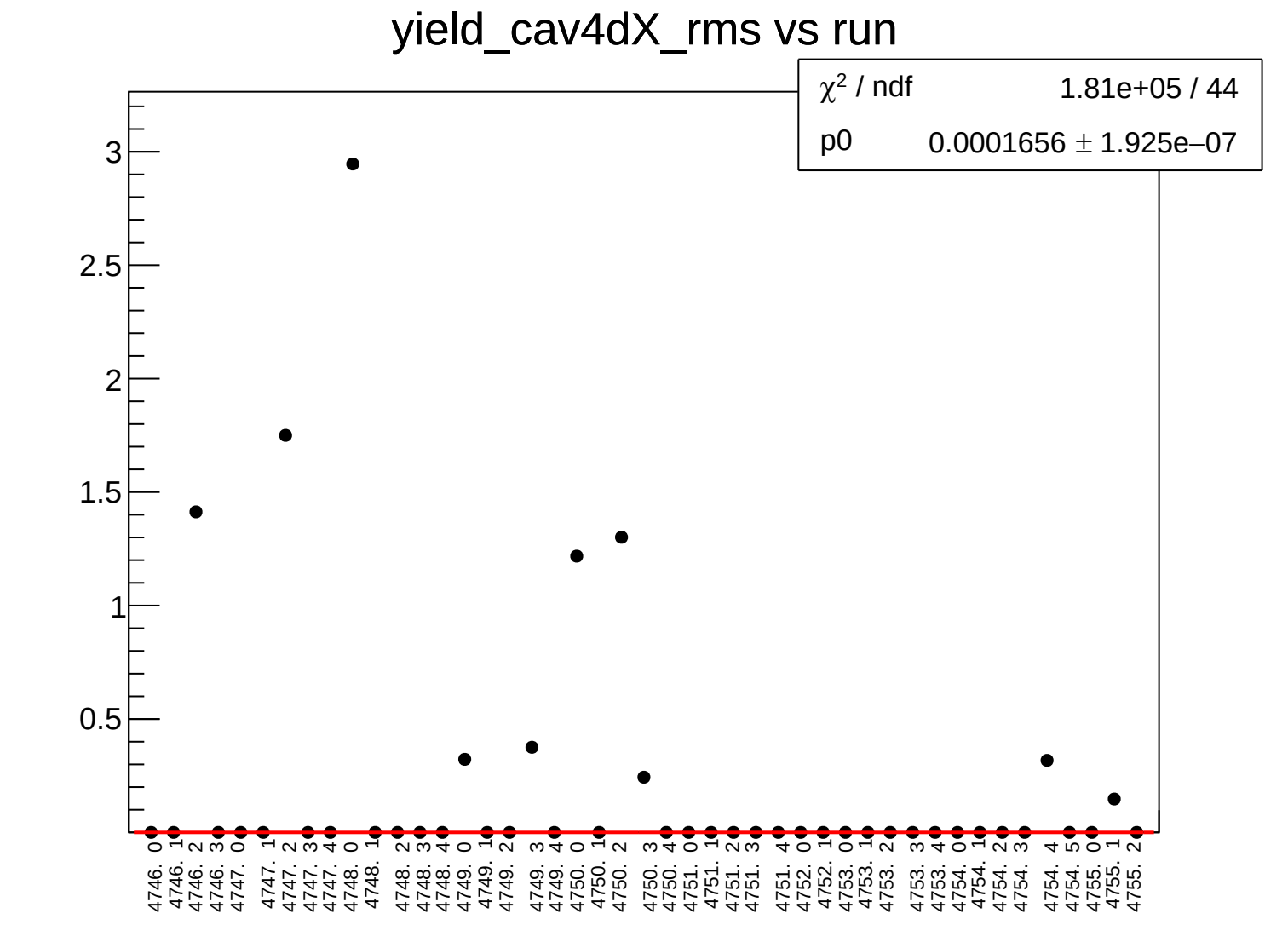

yield_cav4cX_rms vs run
χ² / ndf 2.638e+04 / 44
p0 0.009347 ± 9.882e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

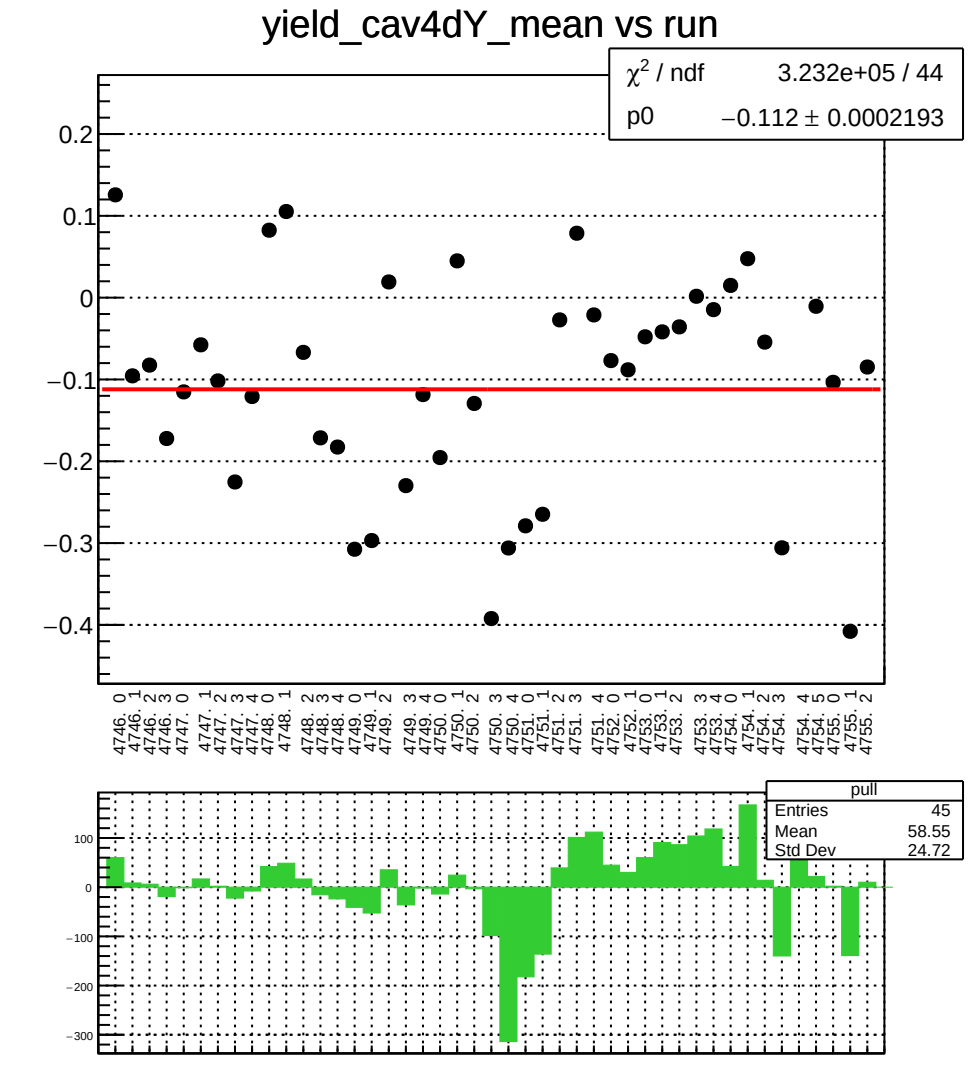

yield_cav4cY_mean vs run
χ² / ndf 1.99e+04 / 44
p0 −0.08104 ± 1.514e−05
−0.02
−0.03
−0.04
−0.05
−0.06
−0.07
−0.08
−0.09
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 36.27
Std Dev 8.53
60
40
20
0
−20
−40
−60
pull1D
Entries 45
Mean −1.491
Std Dev 4.711
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

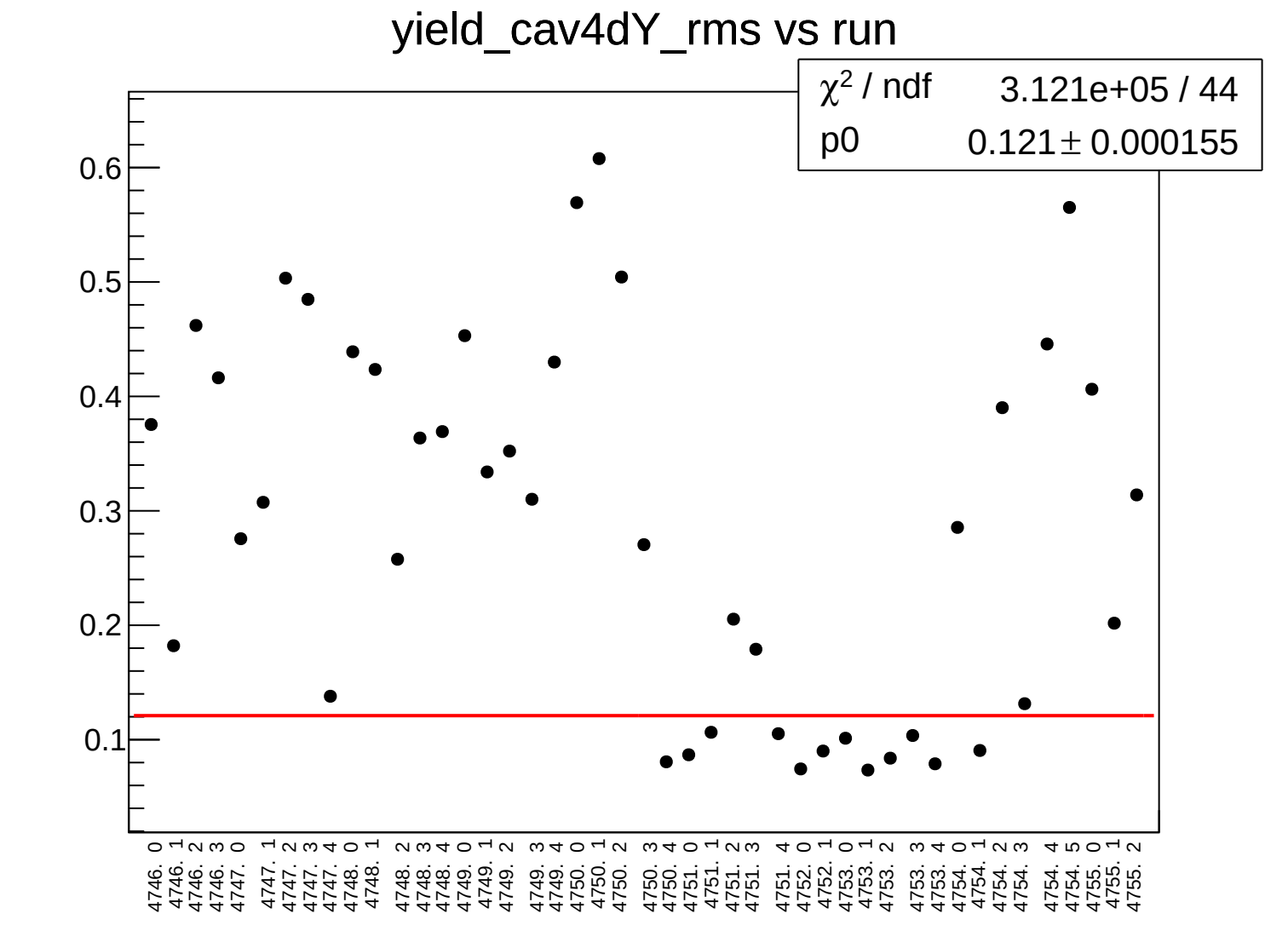

yield_cav4cY_rms vs run
χ² / ndf 8.987e+04 / 44
p0 0.009758 ± 1.07e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

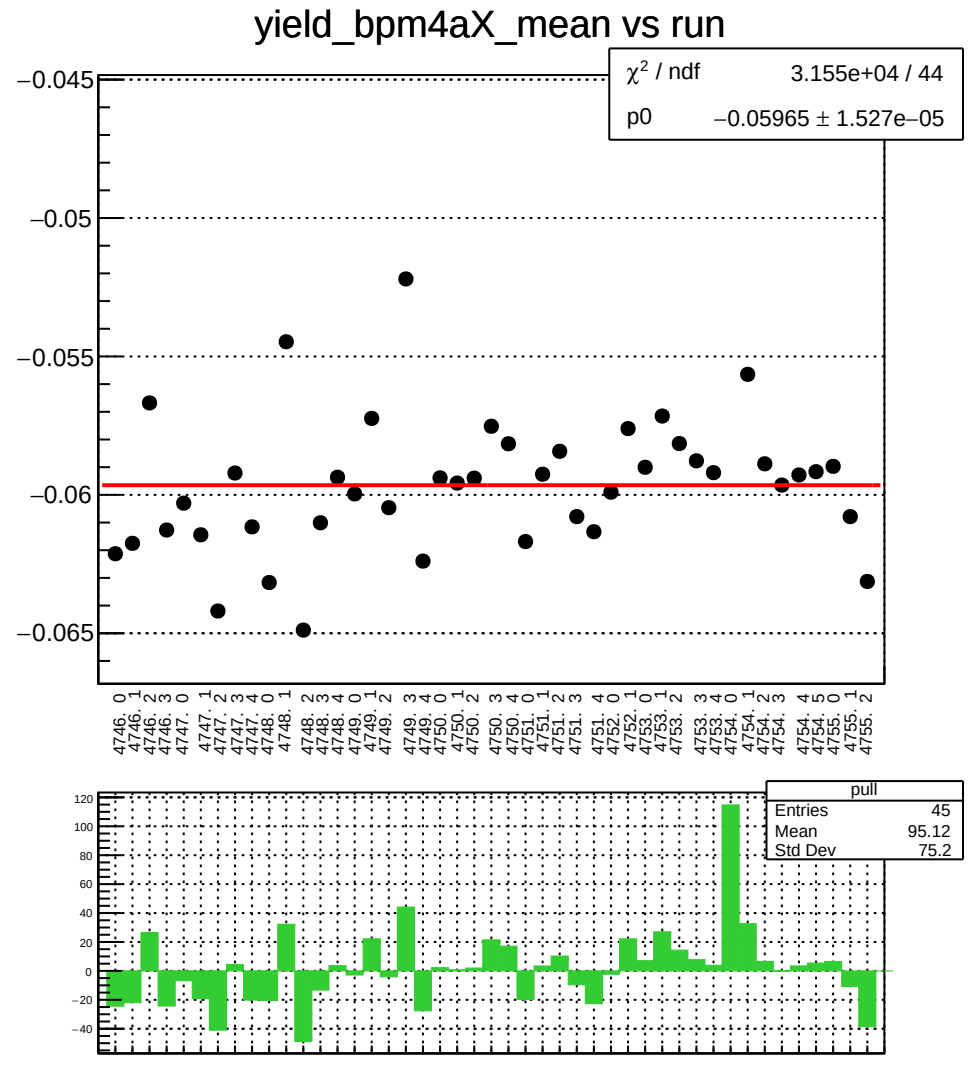

yield_cav4dX_mean vs run
χ² / ndf 3.216e+05 / 44
p0 7.042 ± 2.722e−07
7
6.8
6.6
6.4
6.2
6
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 223.5
Std Dev 185.1
100
0
−100
−200
−300

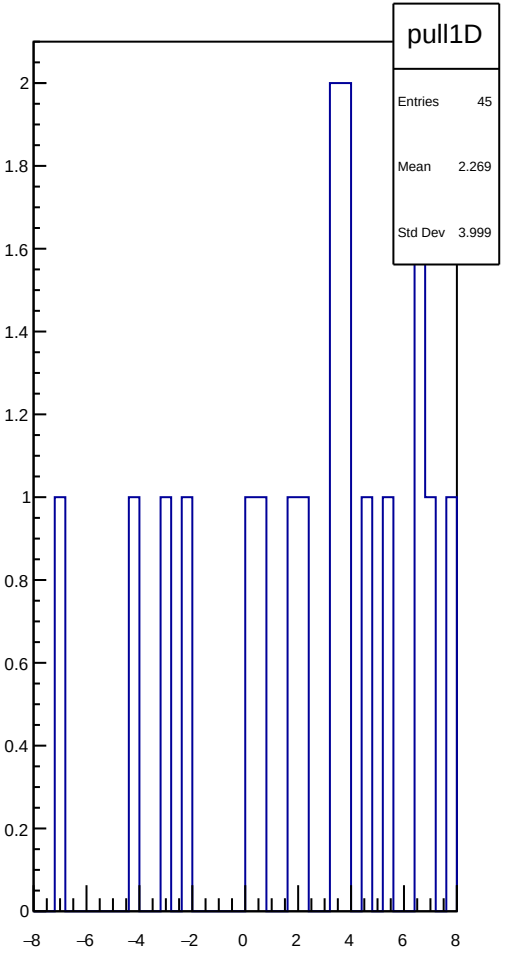

pull1D
Entries 45
Mean −2.962
Std Dev 0.5432
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

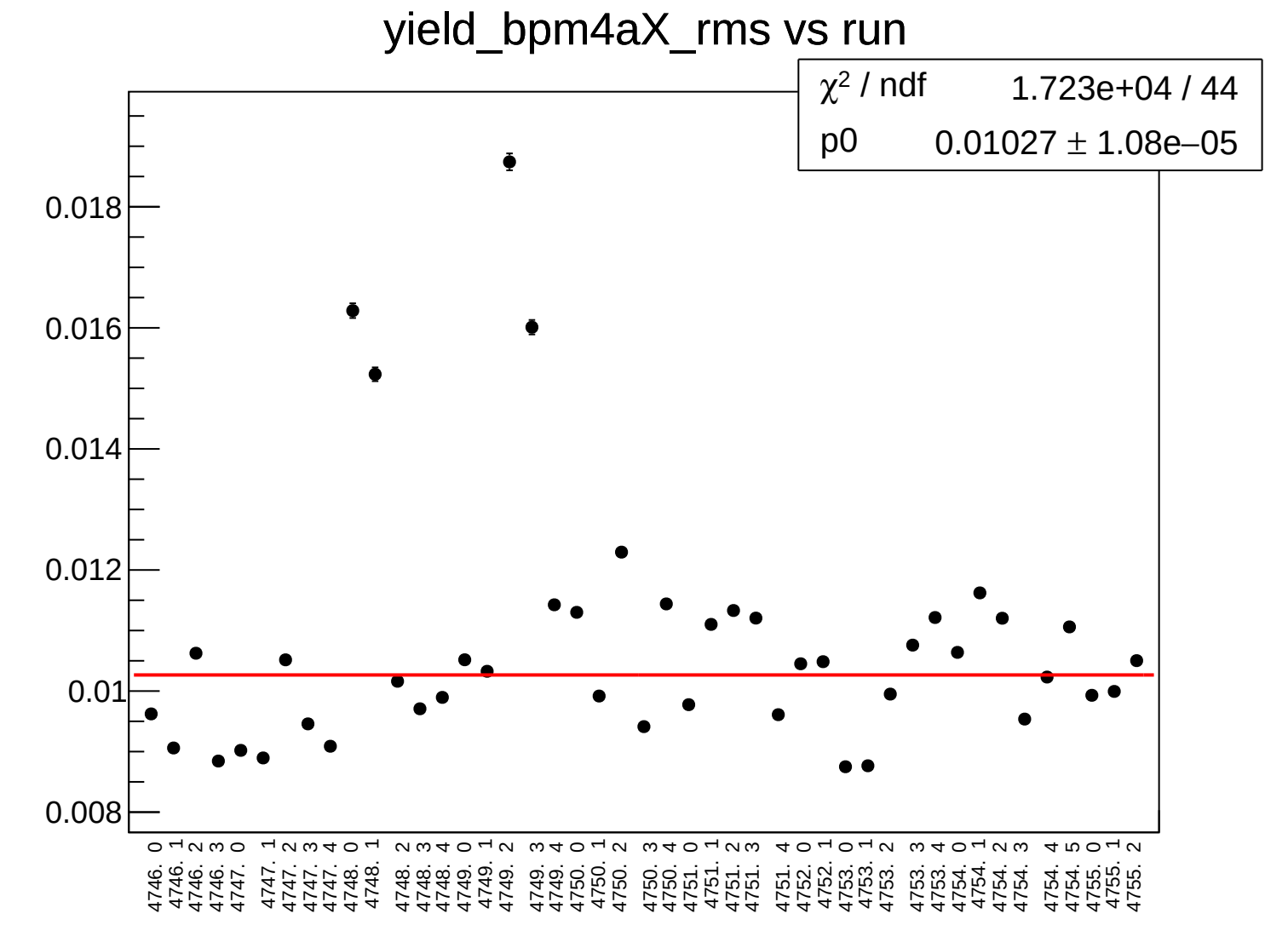

yield_cav4dX_rms vs run
χ² / ndf 1.81e+05 / 44
p0 0.0001656 ± 1.925e−07
3
2.5
2
1.5
1
0.5
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

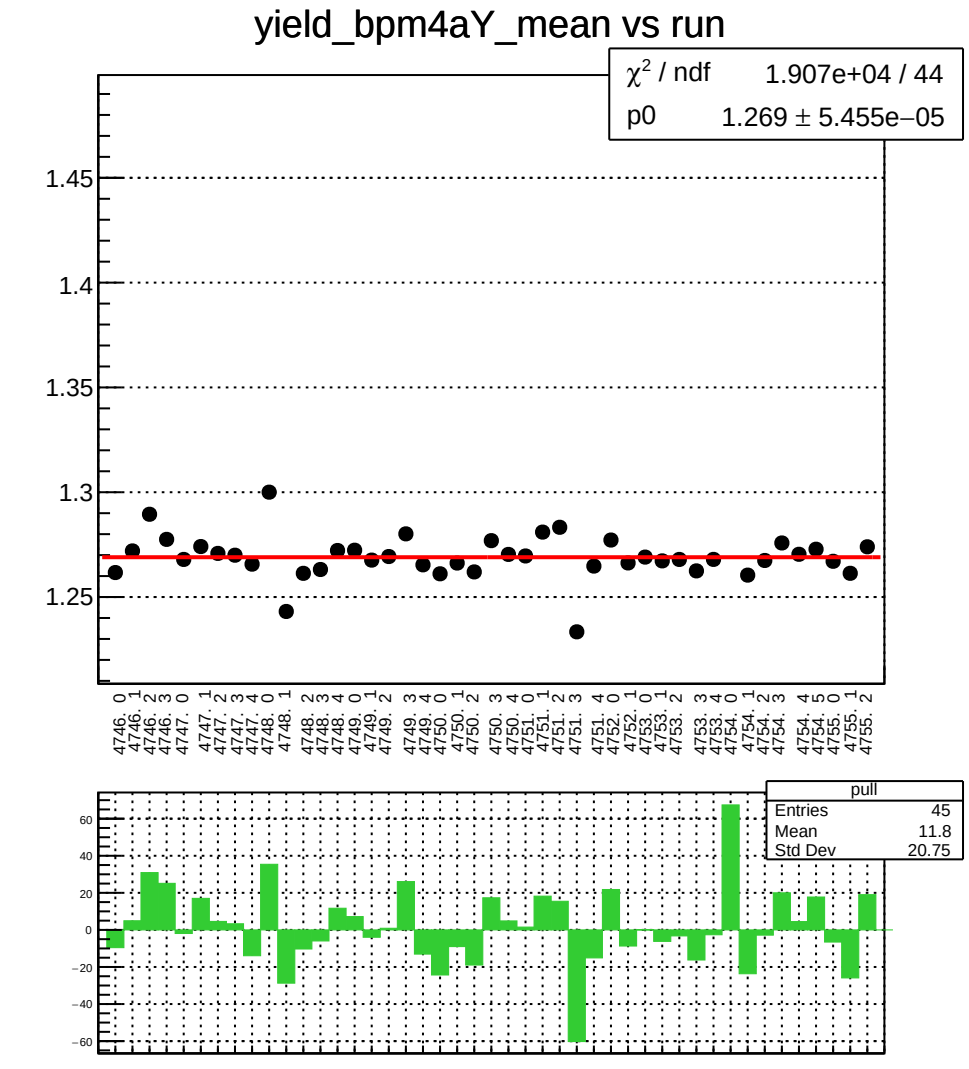

yield_cav4dY_mean vs run
χ² / ndf 3.232e+05 / 44
p0 −0.112 ± 0.0002193
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 58.55
Std Dev 24.72
100
0
−100
−200
−300
pull1D
Entries 45
Mean −0.5399
Std Dev 4.091
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

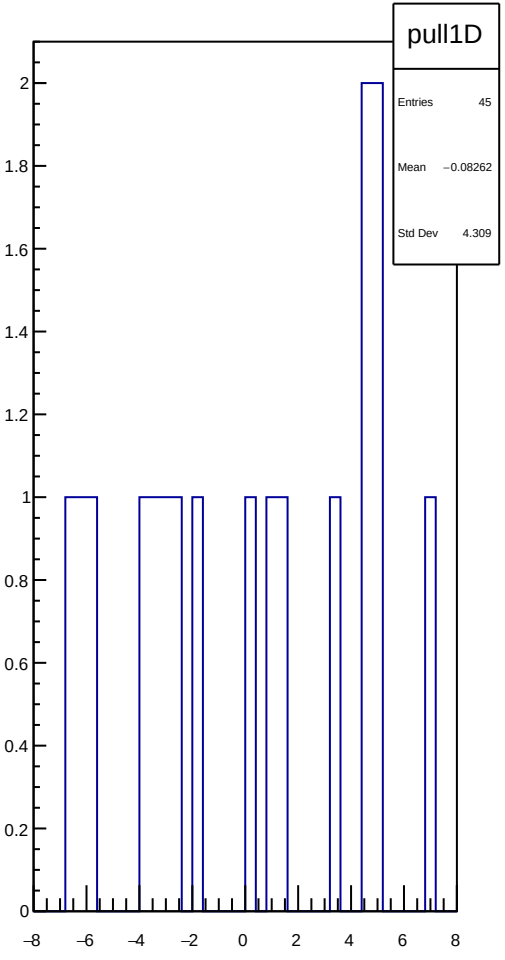

yield_cav4dY_rms vs run
χ^2 / ndf 3.121e+05 / 44
p0 0.121 ± 0.000155
0.6
0.5
0.4
0.3
0.2
0.1
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

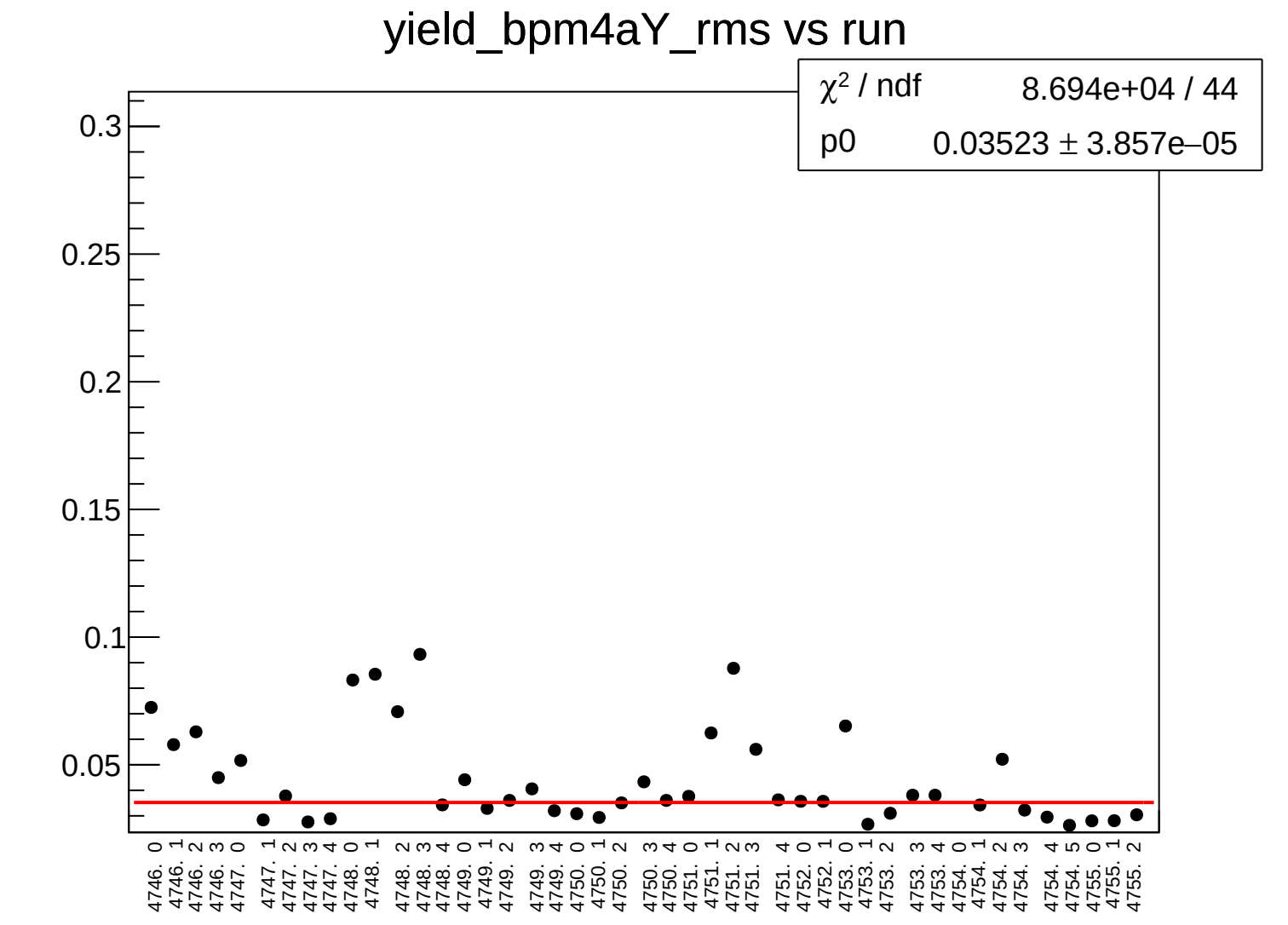

yield_bpm4aX_mean vs run
χ² / ndf 3.155e+04 / 44
p0 −0.05965 ± 1.527e−05
−0.045
−0.05
−0.055
−0.06
−0.065
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 95.12
Std Dev 75.2
120
100
80
60
40
20
0
−20
−40

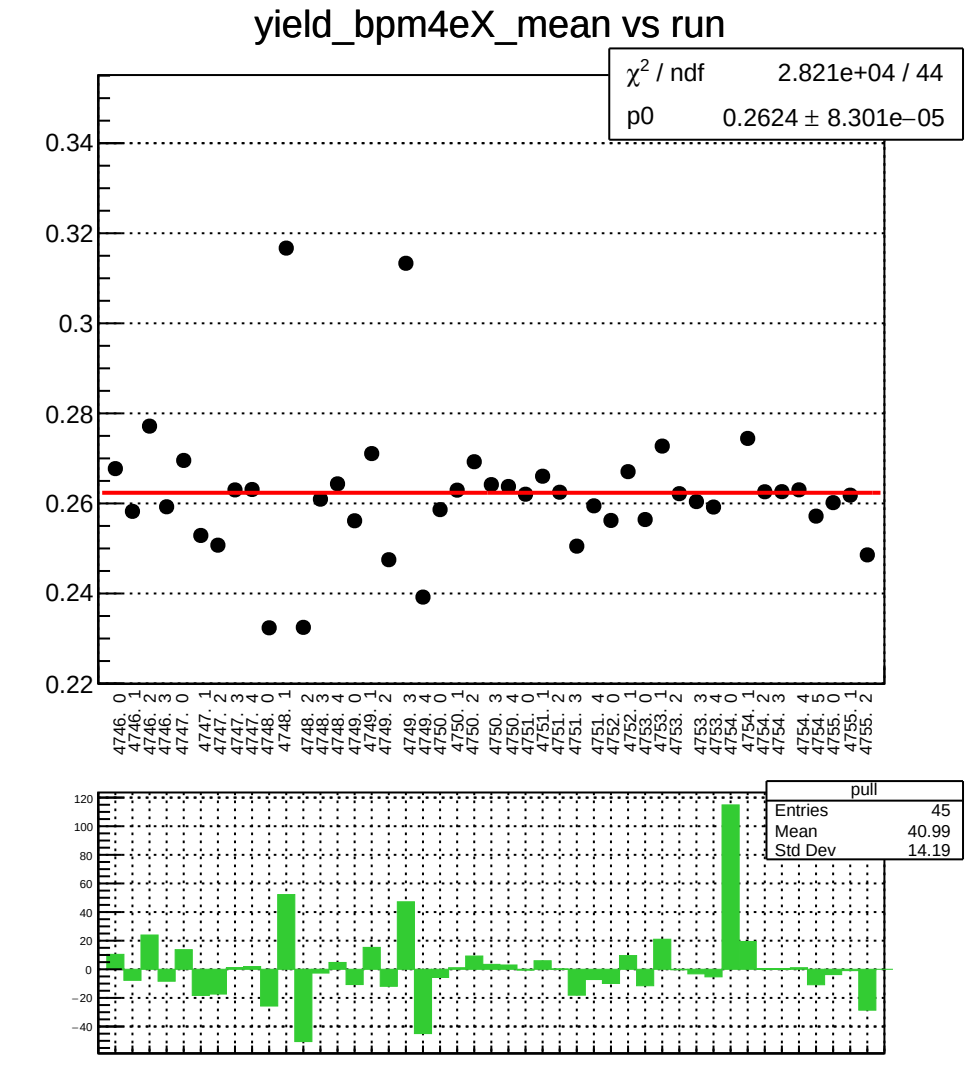

pull1D
Entries 45
Mean 2.269
Std Dev 3.999
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

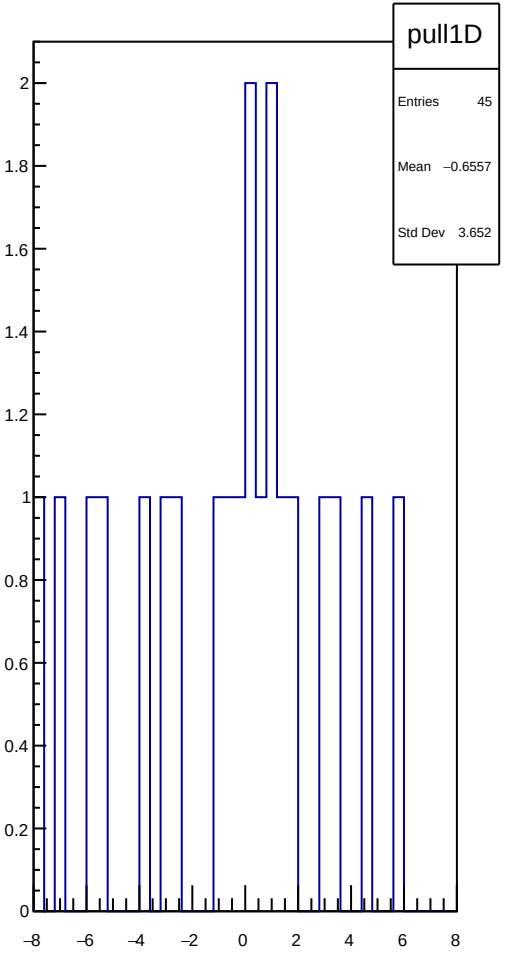

yield_bpm4aX_rms vs run
χ² / ndf 1.723e+04 / 44
p0 0.01027 ± 1.08e−05
0.018
0.016
0.014
0.012
0.01
0.008
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

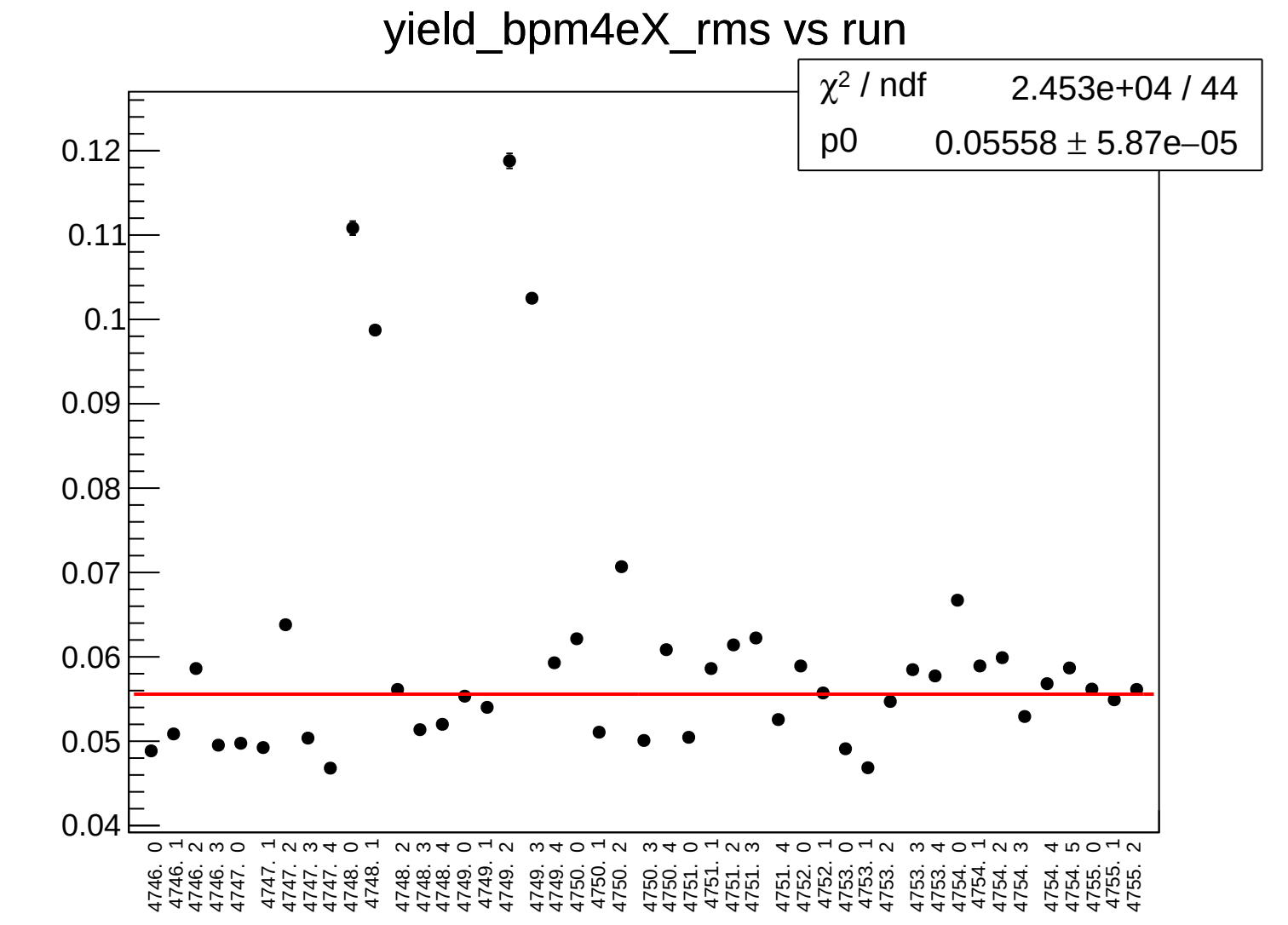

yield_bpm4aY_mean vs run
χ² / ndf 1.907e+04 / 44
p0 1.269 ± 5.455e−05
1.45
1.4
1.35
1.3
1.25
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 11.8
Std Dev 20.75
60
40
20
0
−20
−40
−60

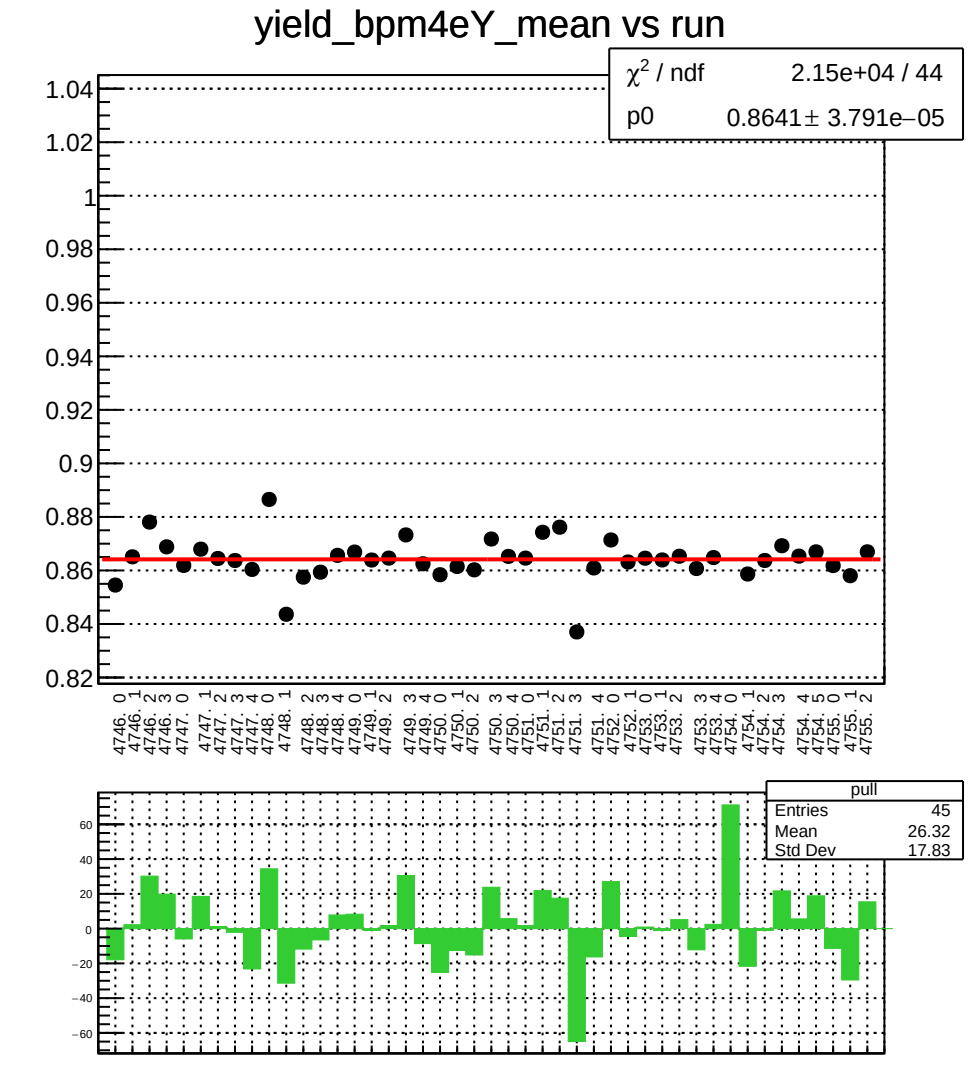

pull1D
Entries 45
Mean −0.08262
Std Dev 4.309
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

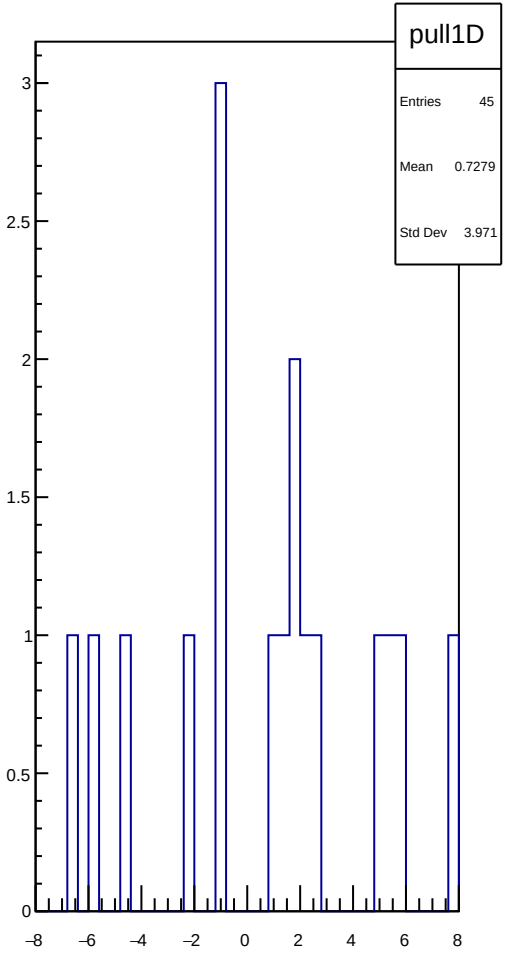

yield_bpm4aY_rms vs run
χ² / ndf 8.694e+04 / 44
p0 0.03523 ± 3.857e–05
0.3
0.25
0.2
0.15
0.1
0.05
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

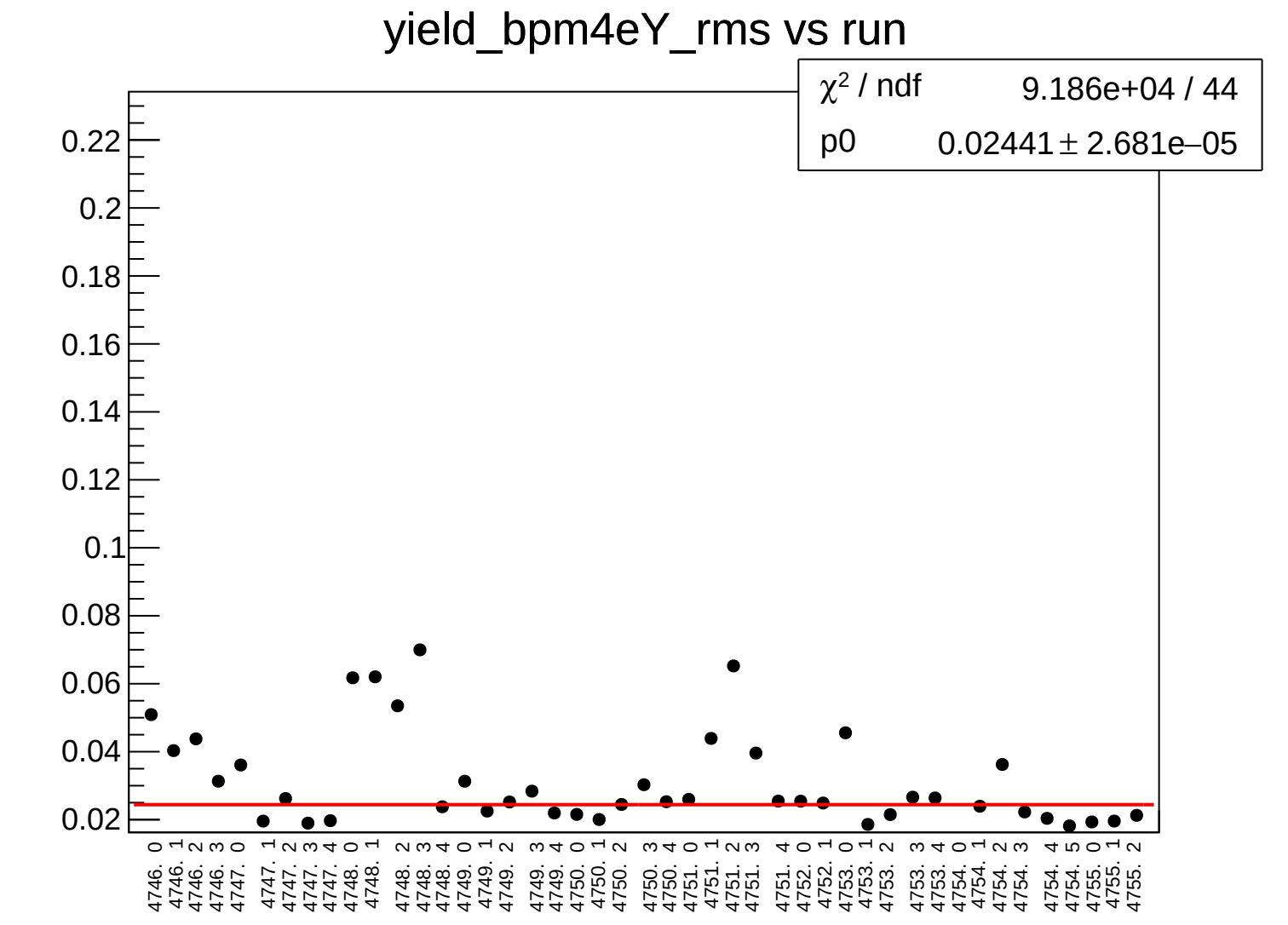

yield_bpm4eX_mean vs run
χ² / ndf 2.821e+04 / 44
p0 0.2624 ± 8.301e−05
0.34
0.32
0.3
0.28
0.26
0.24
0.22
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 40.99
Std Dev 14.19
120
100
80
60
40
20
0
−20
−40

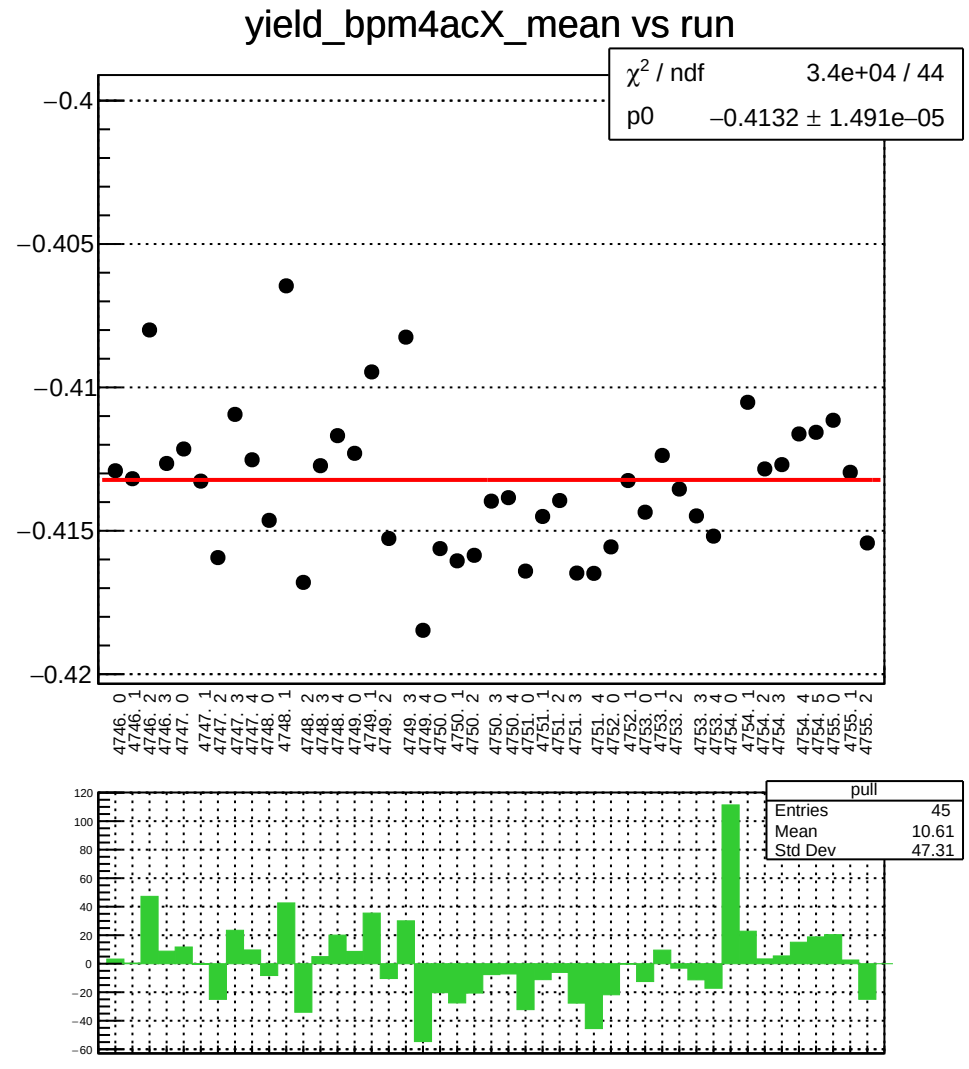

pull1D
Entries 45
Mean −0.6557
Std Dev 3.652
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

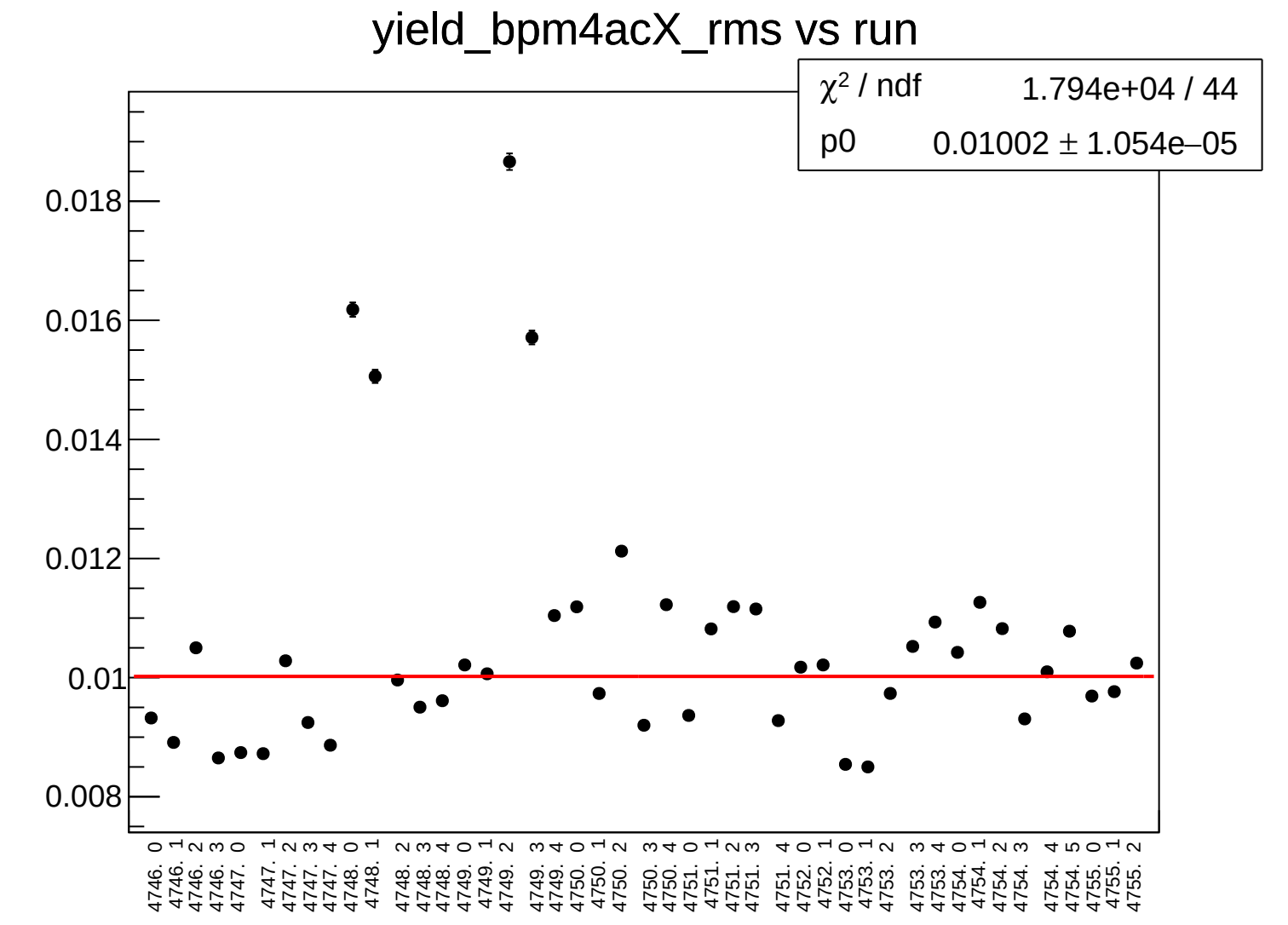

yield_bpm4eX_rms vs run
χ² / ndf 2.453e+04 / 44
p0 0.05558 ± 5.87e−05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

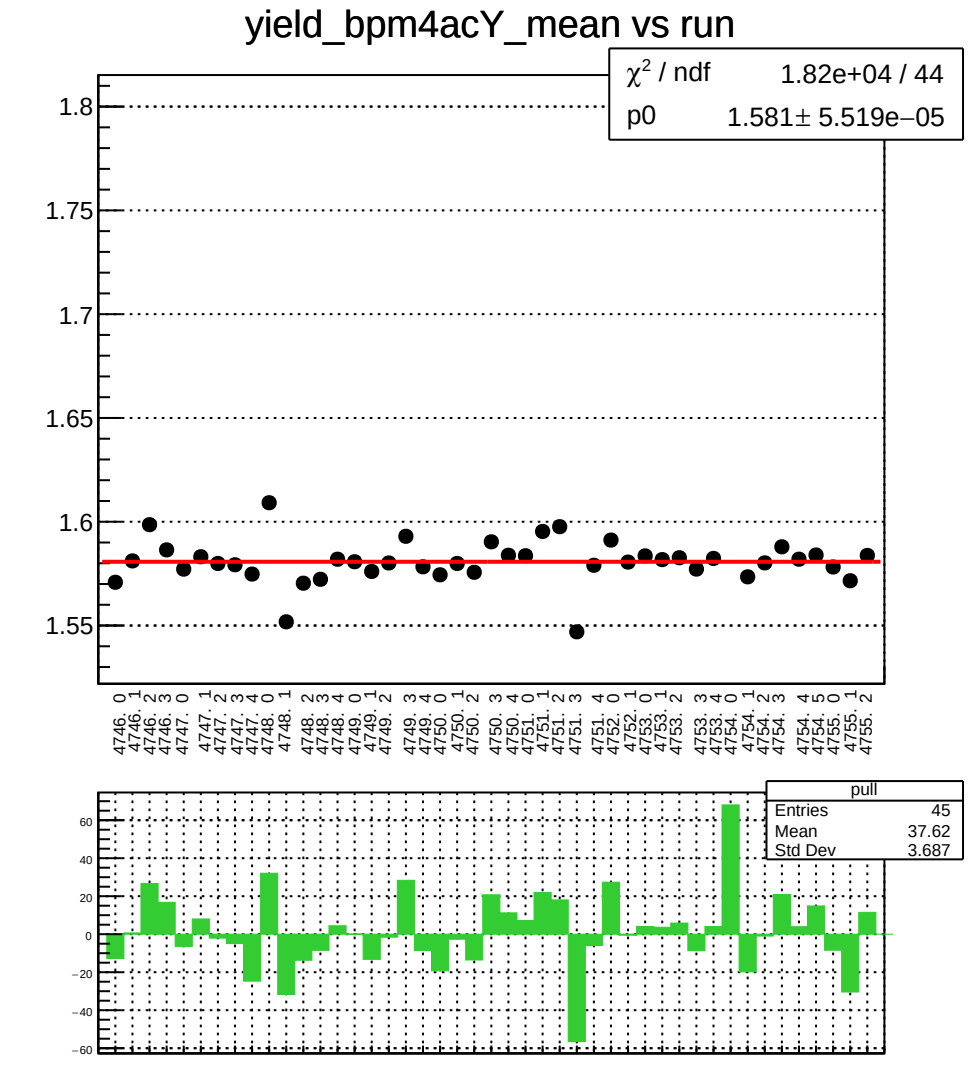

yield_bpm4eY_mean vs run
χ² / ndf 2.15e+04 / 44
p0 0.8641 ± 3.791e−05
1.04
1.02
1
0.98
0.96
0.94
0.92
0.9
0.88
0.86
0.84
0.82
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 26.32
Std Dev 17.83
60
40
20
0
−20
−40
−60

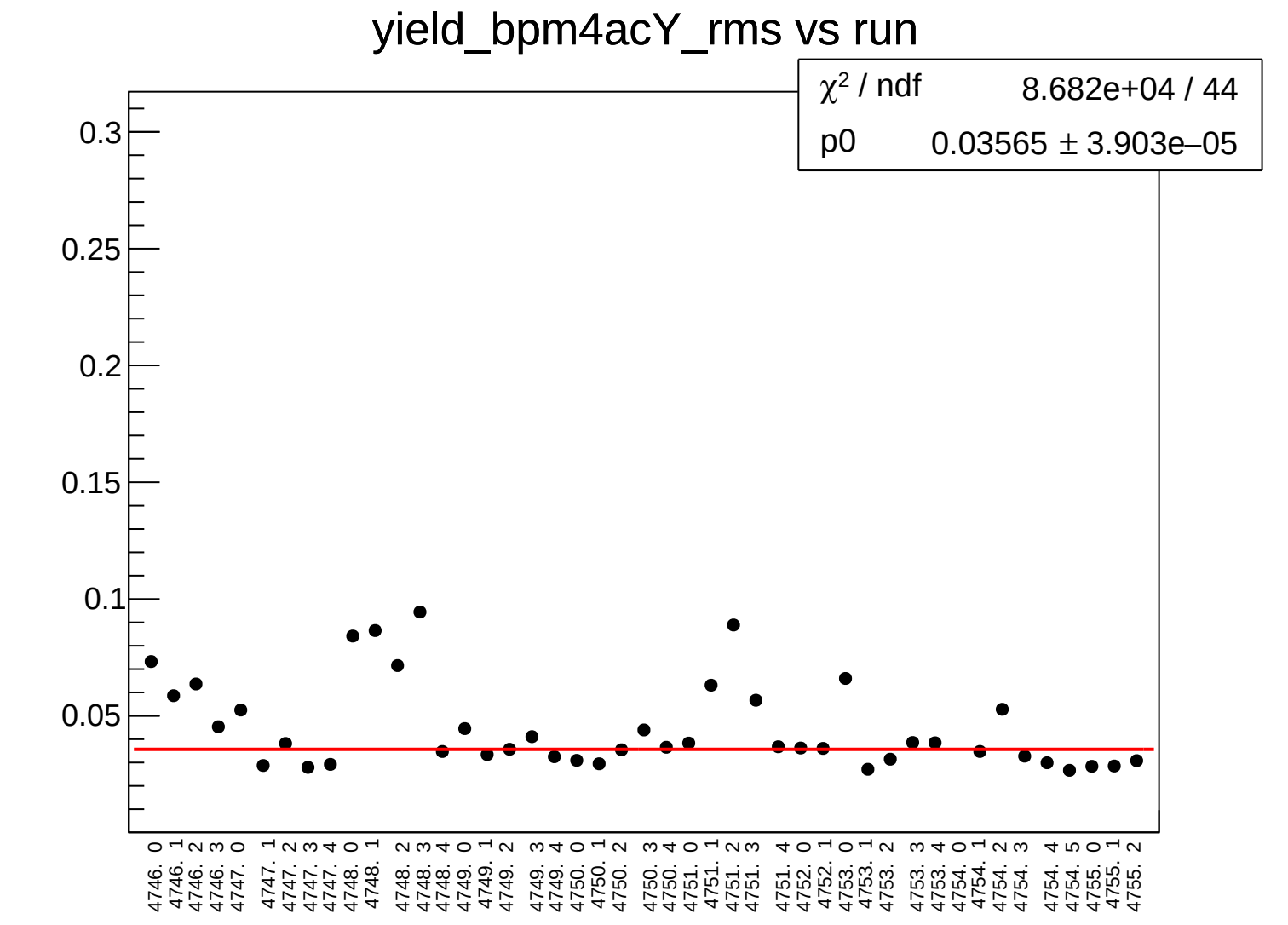

pull1D
Entries 45
Mean 0.7279
Std Dev 3.971
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

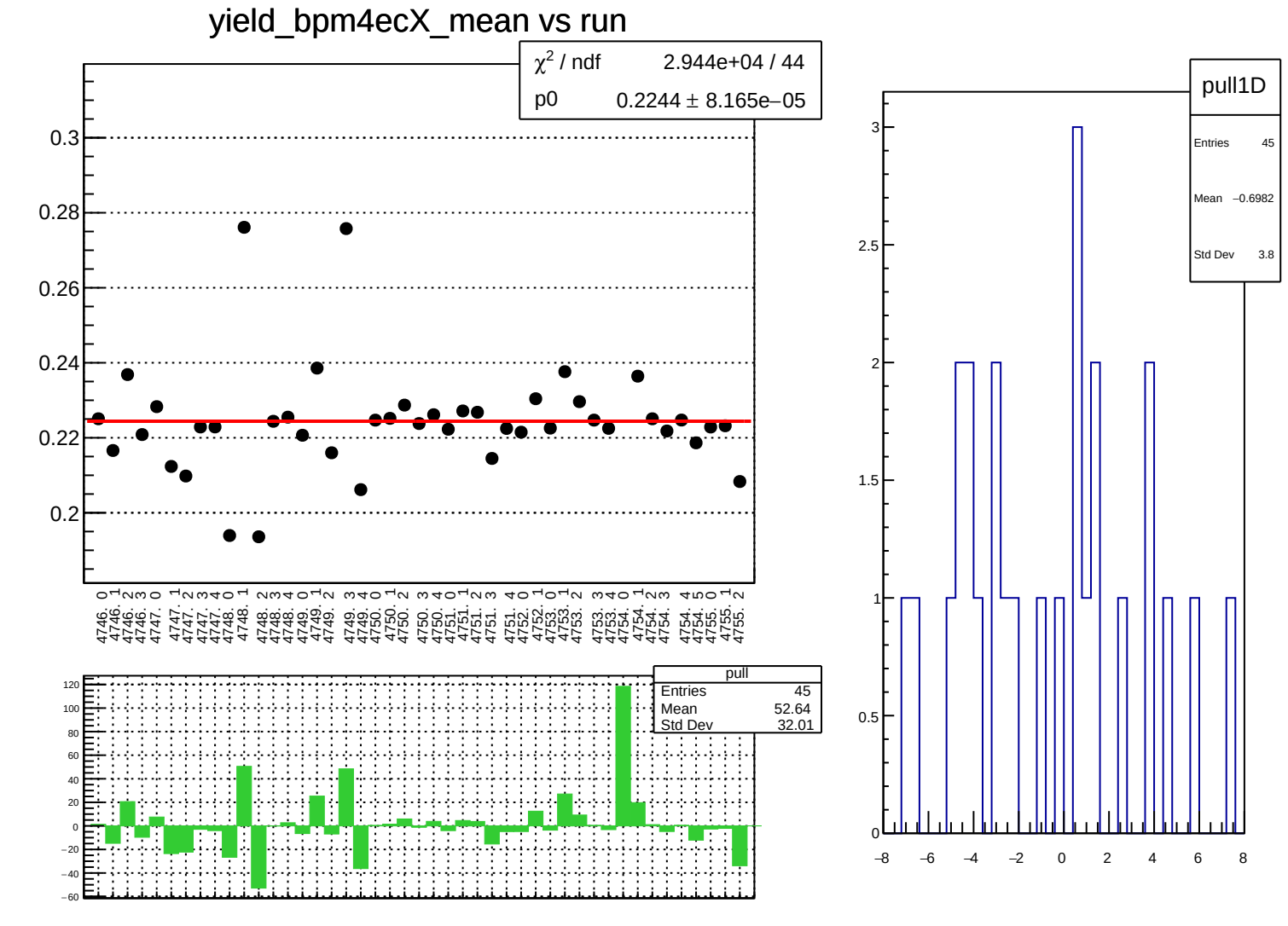

yield_bpm4eY_rms vs run
χ² / ndf 9.186e+04 / 44
p0 0.02441 ± 2.681e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

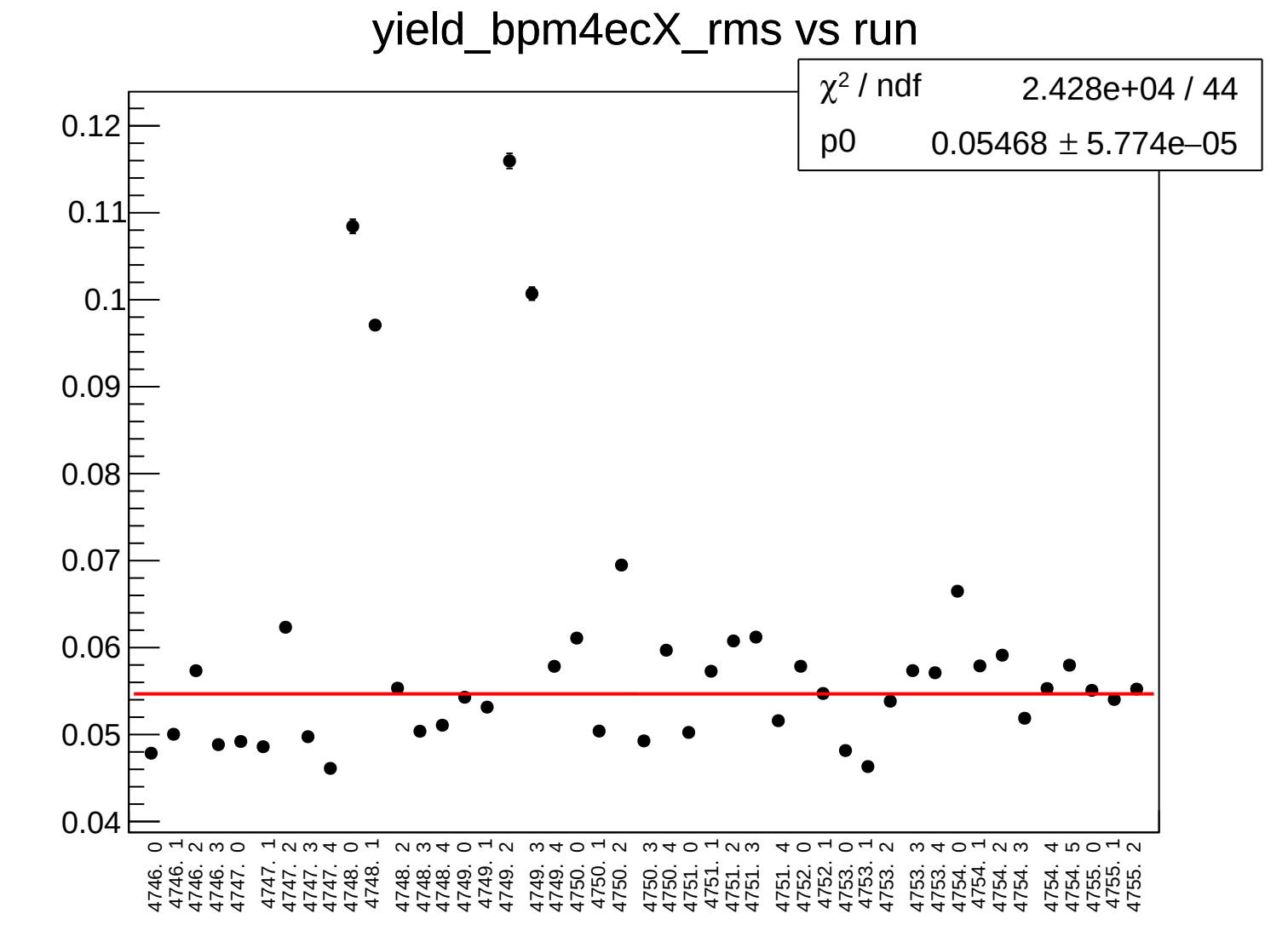

yield_bpm4acX_mean vs run
χ² / ndf 3.4e+04 / 44
p0 −0.4132 ± 1.491e−05
−0.4
−0.405
−0.41
−0.415
−0.42
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 10.61
Std Dev 47.31
120
100
80
60
40
20
0
−20
−40
−60
pull1D
Entries 45
Mean −0.3896
Std Dev 4.454
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

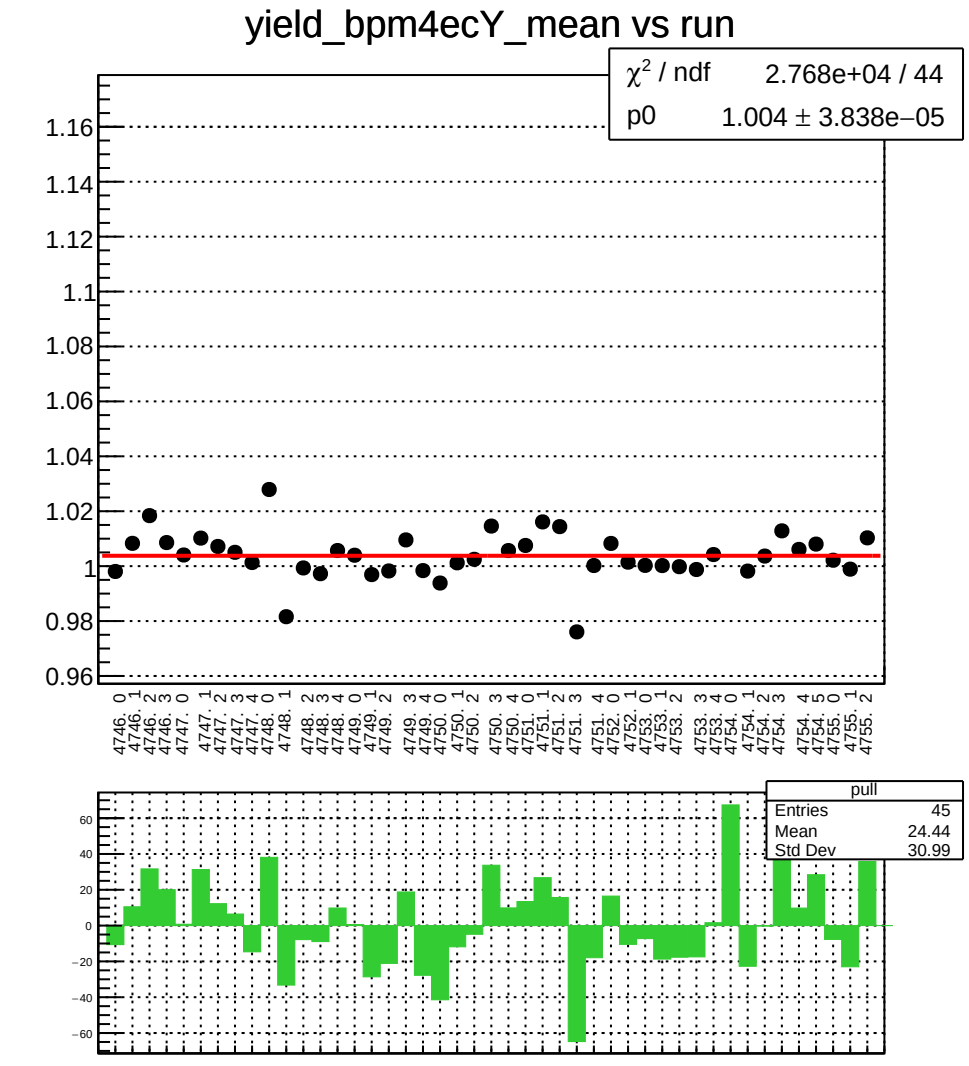

yield_bpm4acX_rms vs run
χ² / ndf 1.794e+04 / 44
p0 0.01002 ± 1.054e−05
0.018
0.016
0.014
0.012
0.01
0.008
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

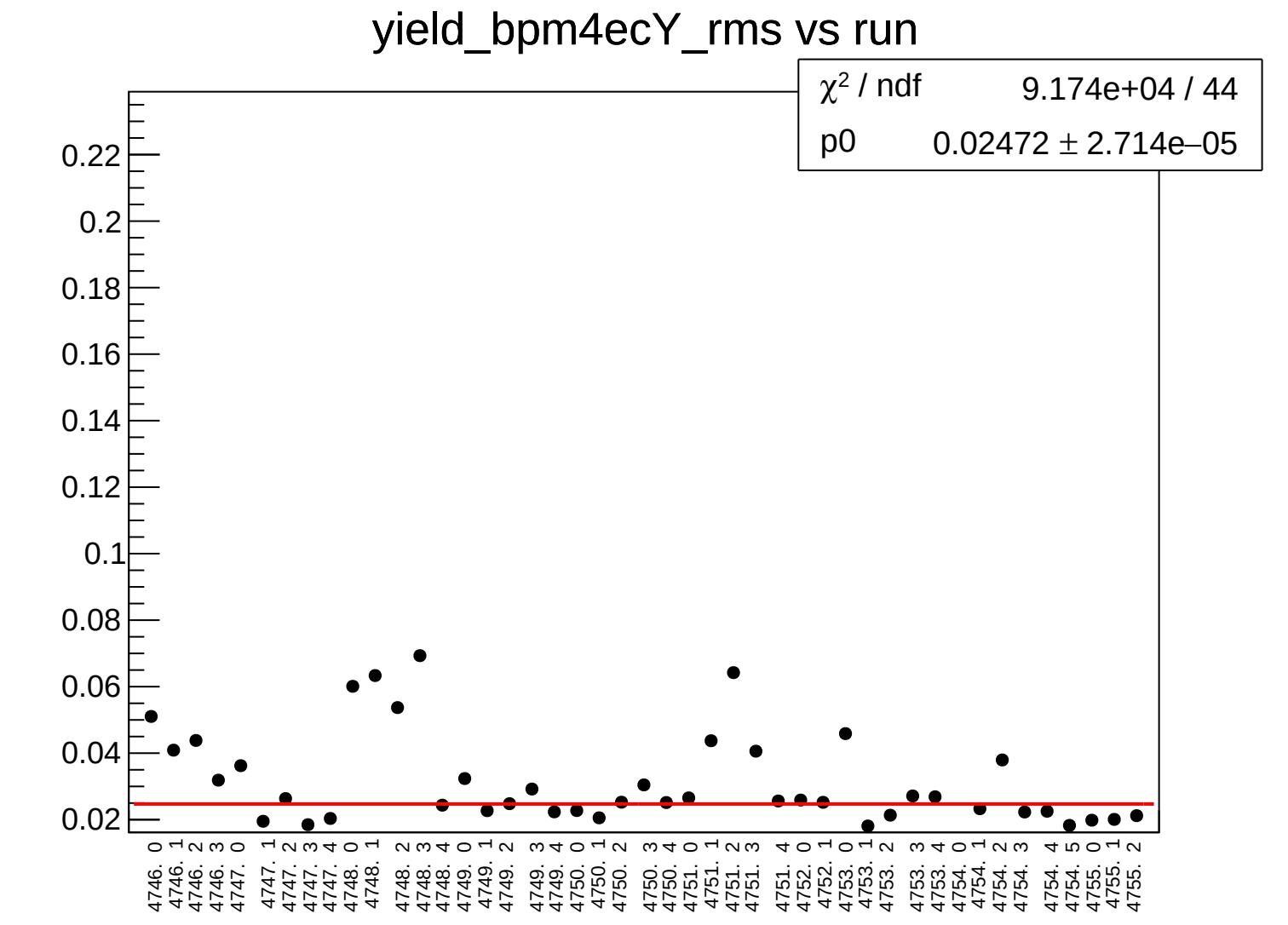

yield_bpm4acY_mean vs run
χ² / ndf 1.82e+04 / 44
p0 1.581± 5.519e−05
1.8
1.75
1.7
1.65
1.6
1.55
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 37.62
Std Dev 3.687
60
40
20
0
−20
−40
−60
pull1D
Entries 45
Mean 0.5203
Std Dev 4.048
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

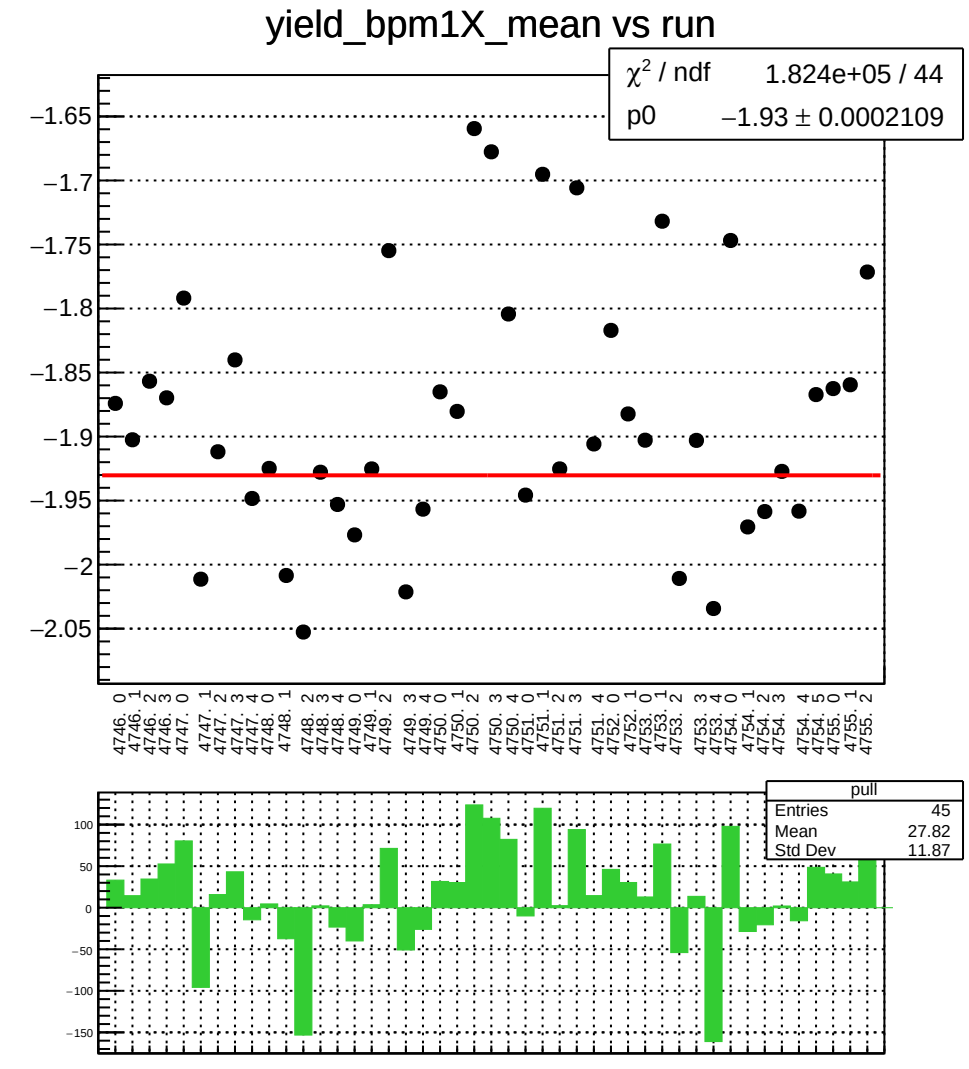

yield_bpm4acY_rms vs run
χ² / ndf 8.682e+04 / 44
p0 0.03565 ± 3.903e–05
0.3
0.25
0.2
0.15
0.1
0.05
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

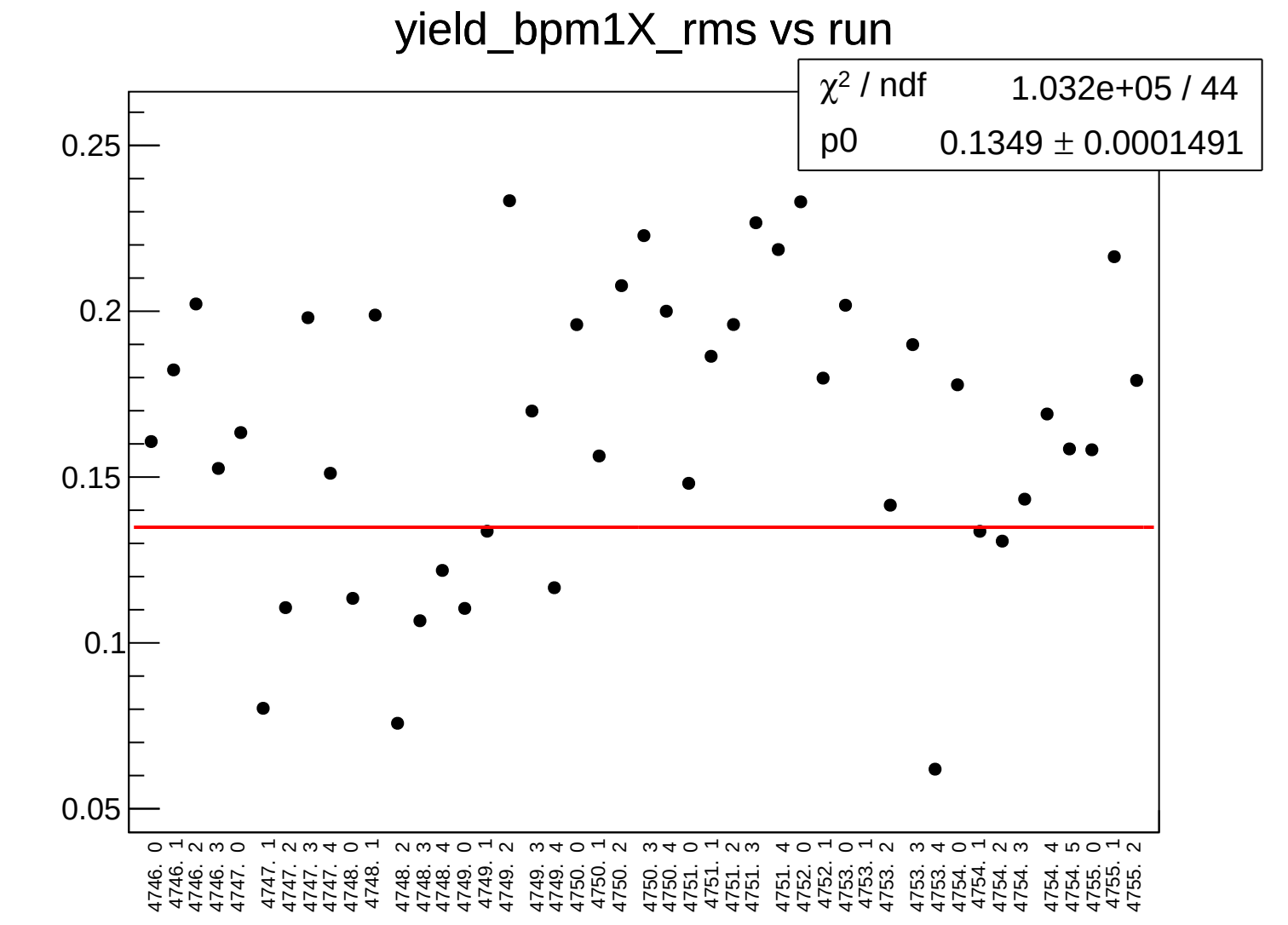

yield_bpm4ecX_mean vs run
χ² / ndf 2.944e+04 / 44
p0 0.2244 ± 8.165e−05
0.3
0.28
0.26
0.24
0.22
0.2
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 52.64
Std Dev 32.01
120
100
80
60
40
20
0
−20
−40
−60
pull1D
Entries 45
Mean −0.6982
Std Dev 3.8
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

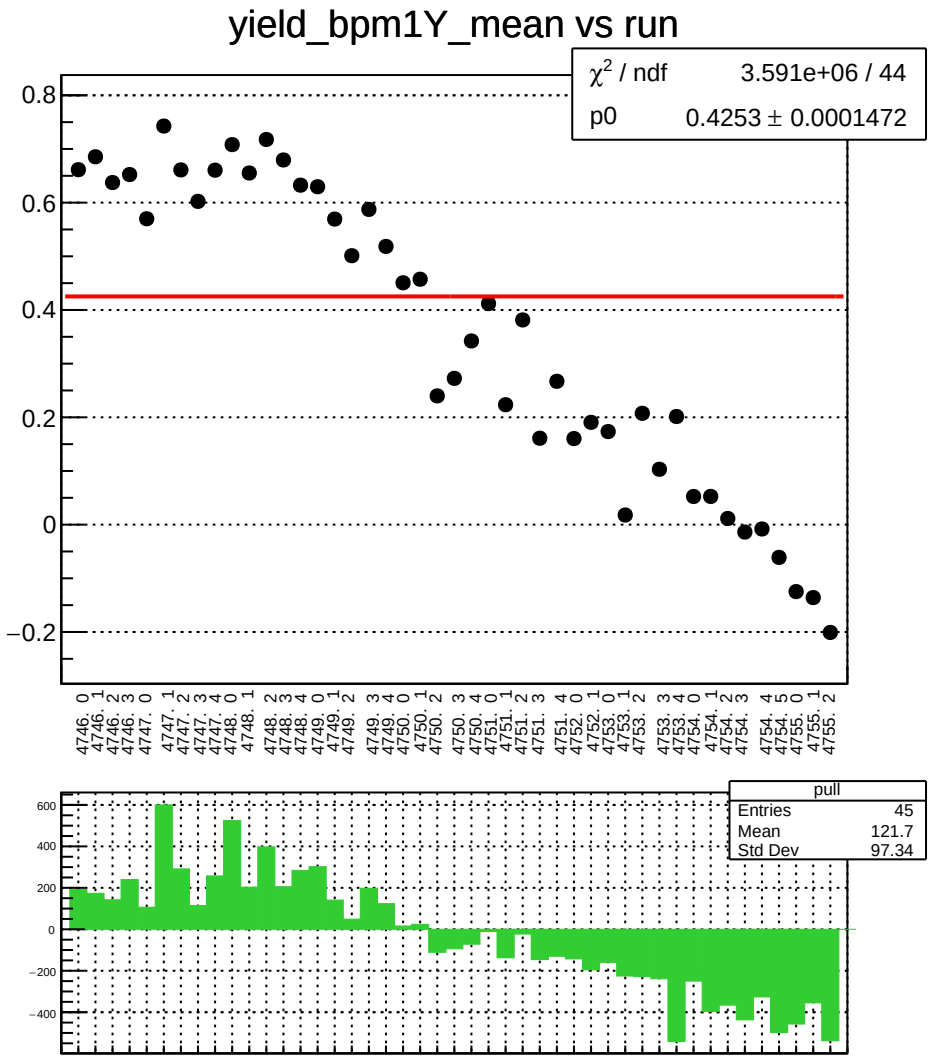

yield_bpm4ecX_rms vs run
χ² / ndf 2.428e+04 / 44
p0 0.05468 ± 5.774e−05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

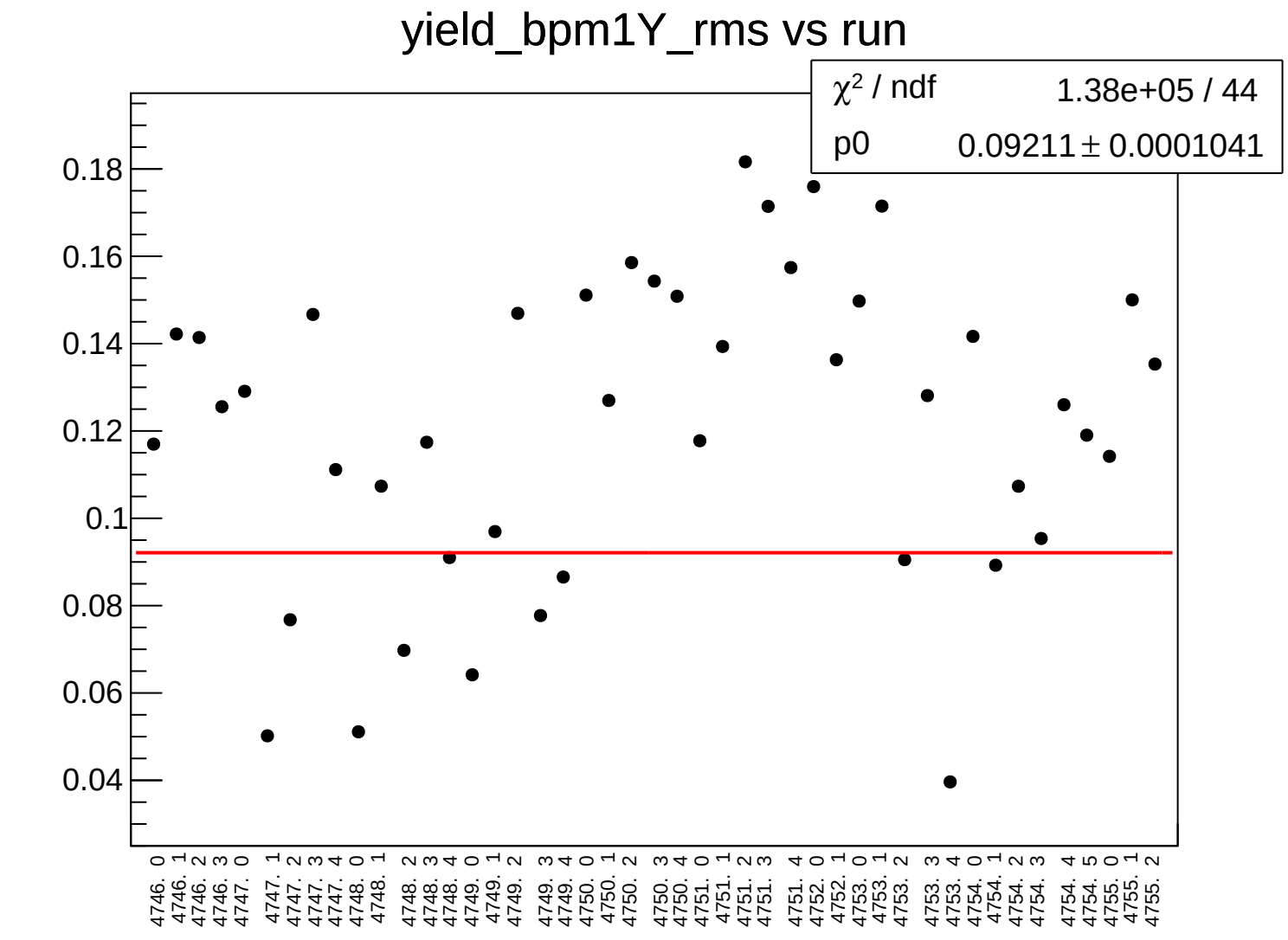

yield_bpm4ecY_mean vs run
χ² / ndf 2.768e+04 / 44
p0 1.004 ± 3.838e−05
1.16
1.14
1.12
1.1
1.08
1.06
1.04
1.02
1
0.98
0.96
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 24.44
Std Dev 30.99
60
40
20
0
−20
−40
−60
pull1D
Entries 45
Mean −2.057
Std Dev 4.756
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

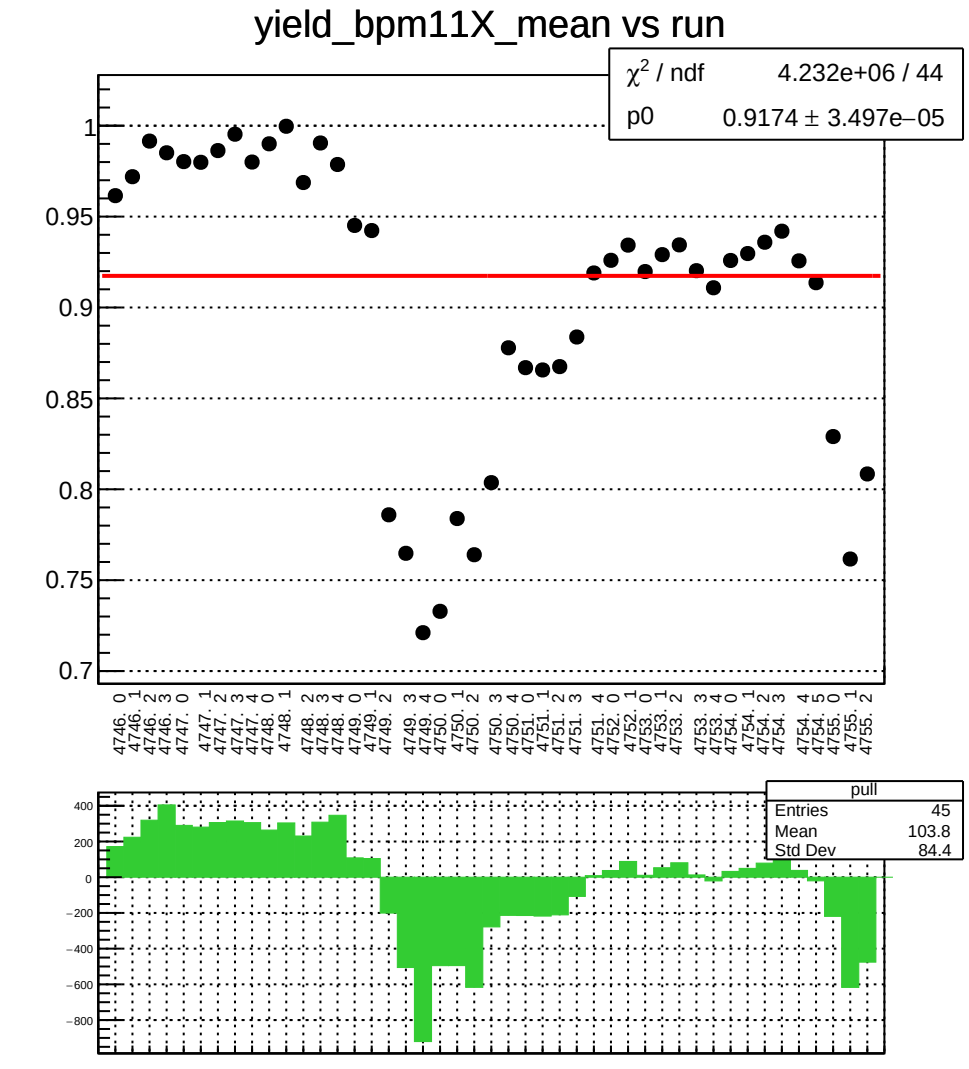

yield_bpm4ecY_rms vs run
χ² / ndf 9.174e+04 / 44
p0 0.02472 ± 2.714e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

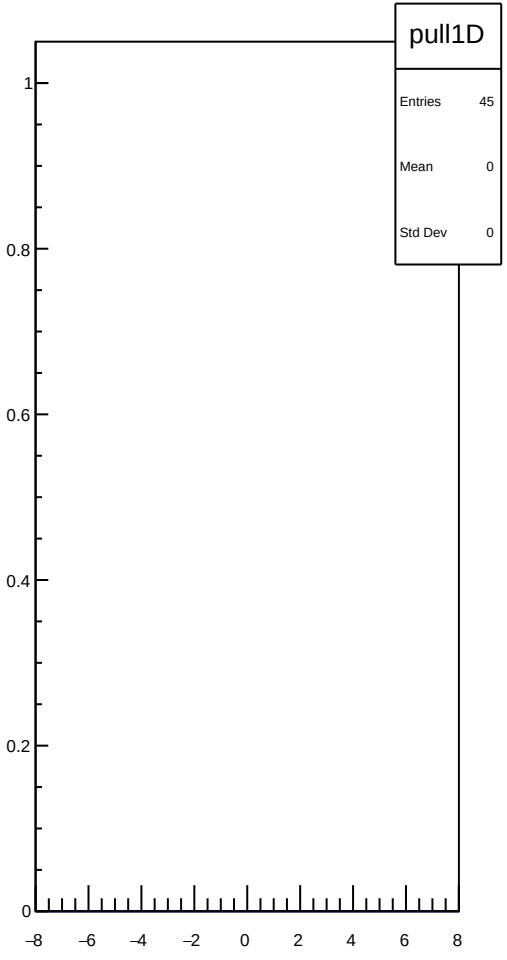

yield_bpm1X_mean vs run
χ² / ndf 1.824e+05 / 44
p0 −1.93 ± 0.0002109
−1.65
−1.7
−1.75
−1.8
−1.85
−1.9
−1.95
−2
−2.05
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 27.82
Std Dev 11.87
100
50
0
−50
−100
−150
pull1D
Entries 45
Mean 2.949
Std Dev 0.9601
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

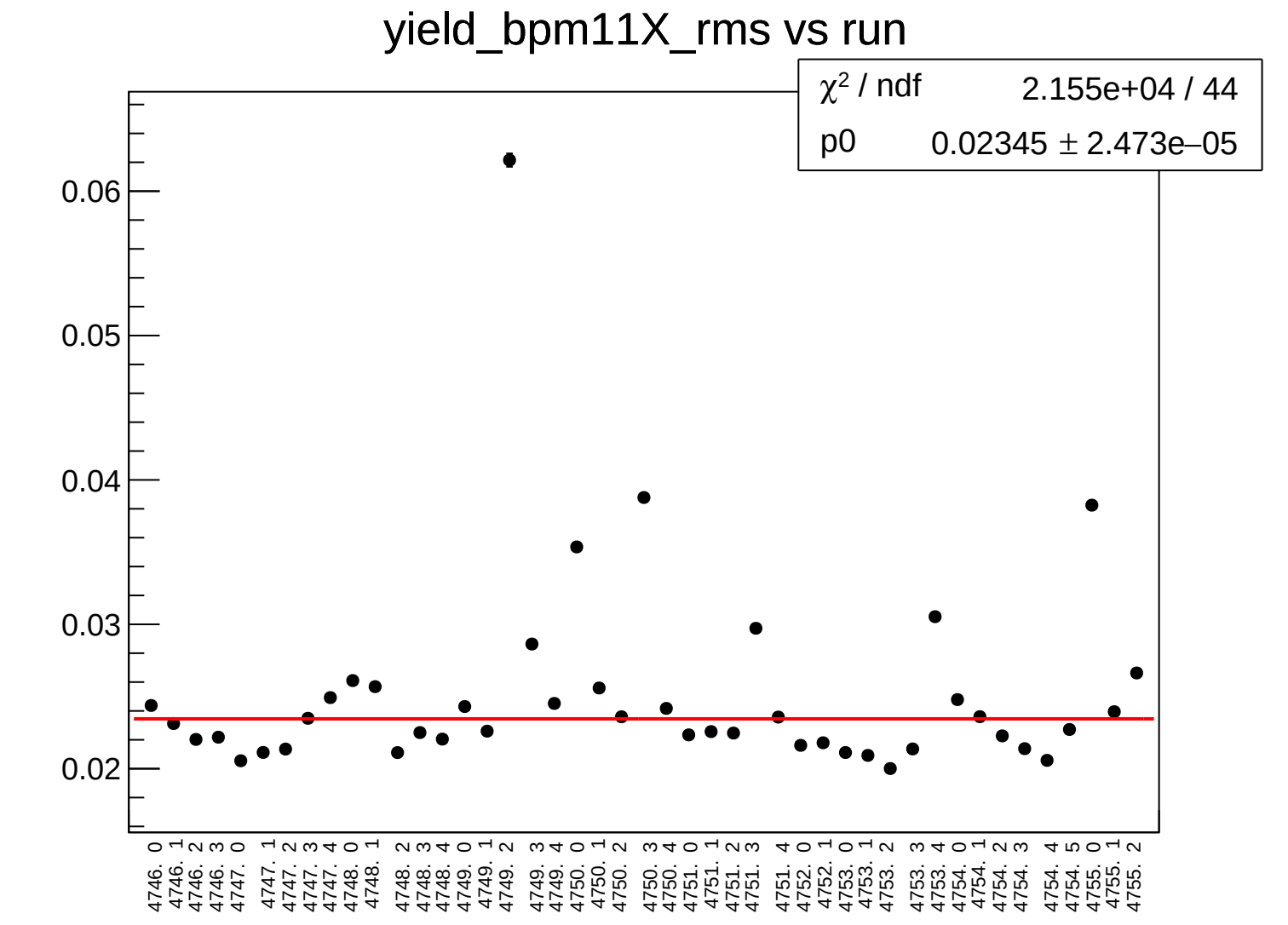

yield_bpm1X_rms vs run
χ² / ndf 1.032e+05 / 44
p0 0.1349 ± 0.0001491
0.25
0.2
0.15
0.1
0.05
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

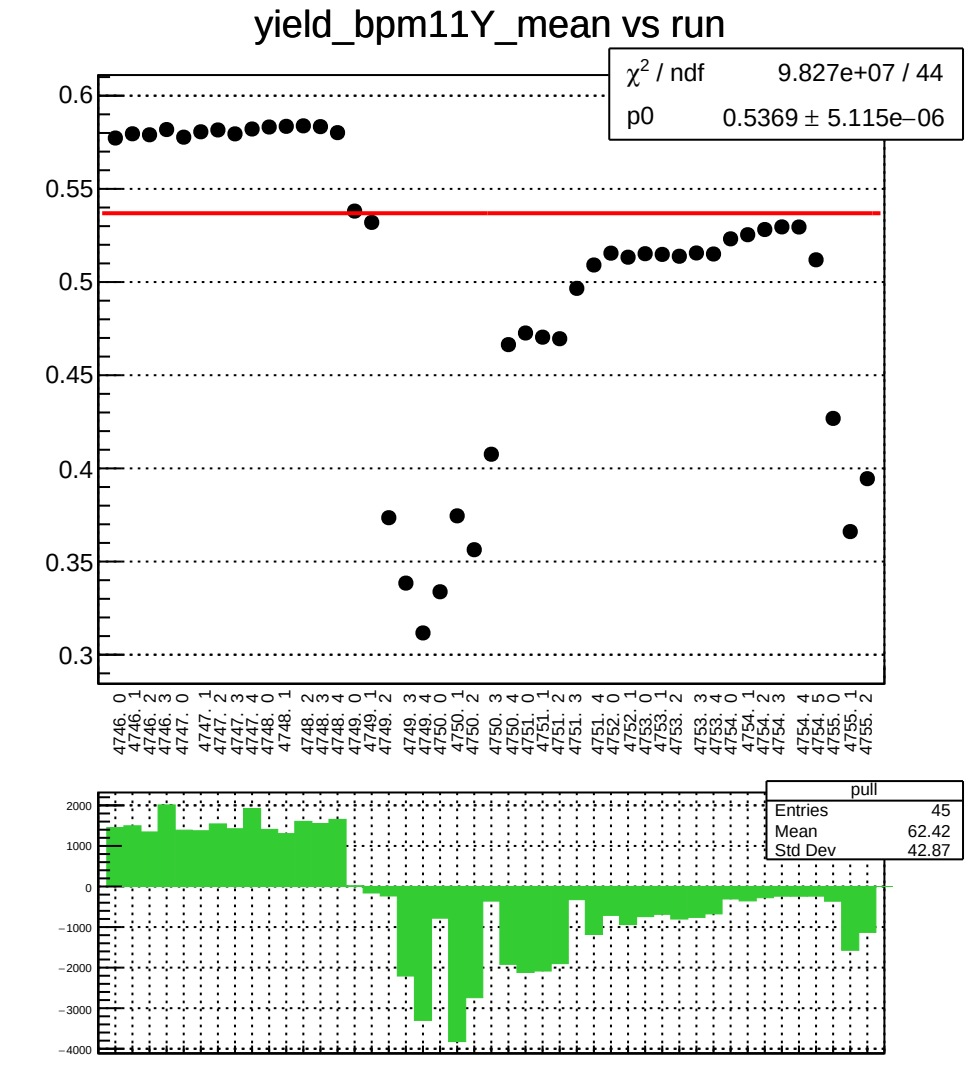

yield_bpm1Y_mean vs run
χ² / ndf 3.591e+06 / 44
p0 0.4253 ± 0.0001472
0.8
0.6
0.4
0.2
0
−0.2
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 121.7
Std Dev 97.34
600
400
200
0
−200
−400
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

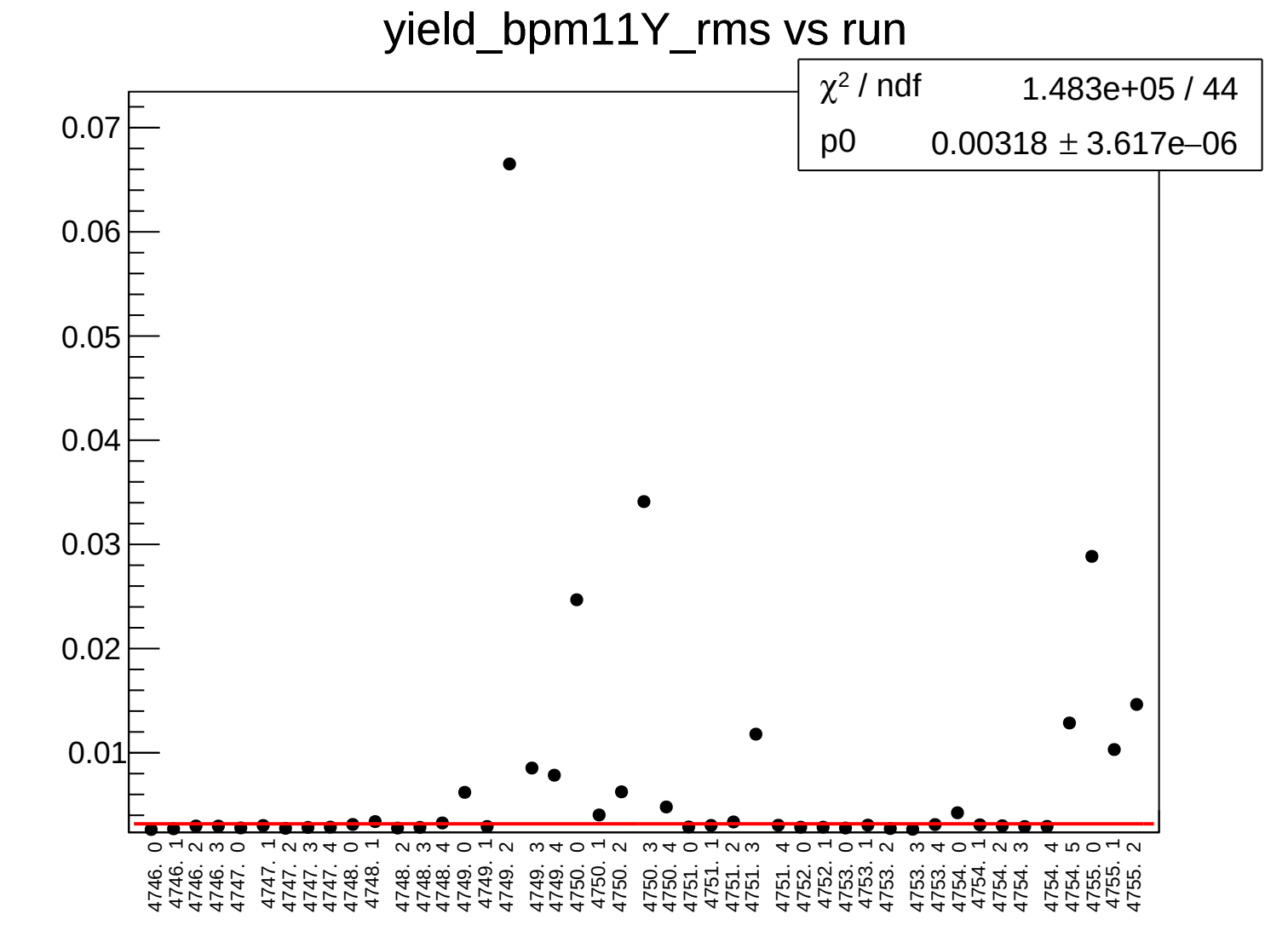

yield_bpm1Y_rms vs run
χ² / ndf 1.38e+05 / 44
p0 0.09211 ± 0.0001041
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

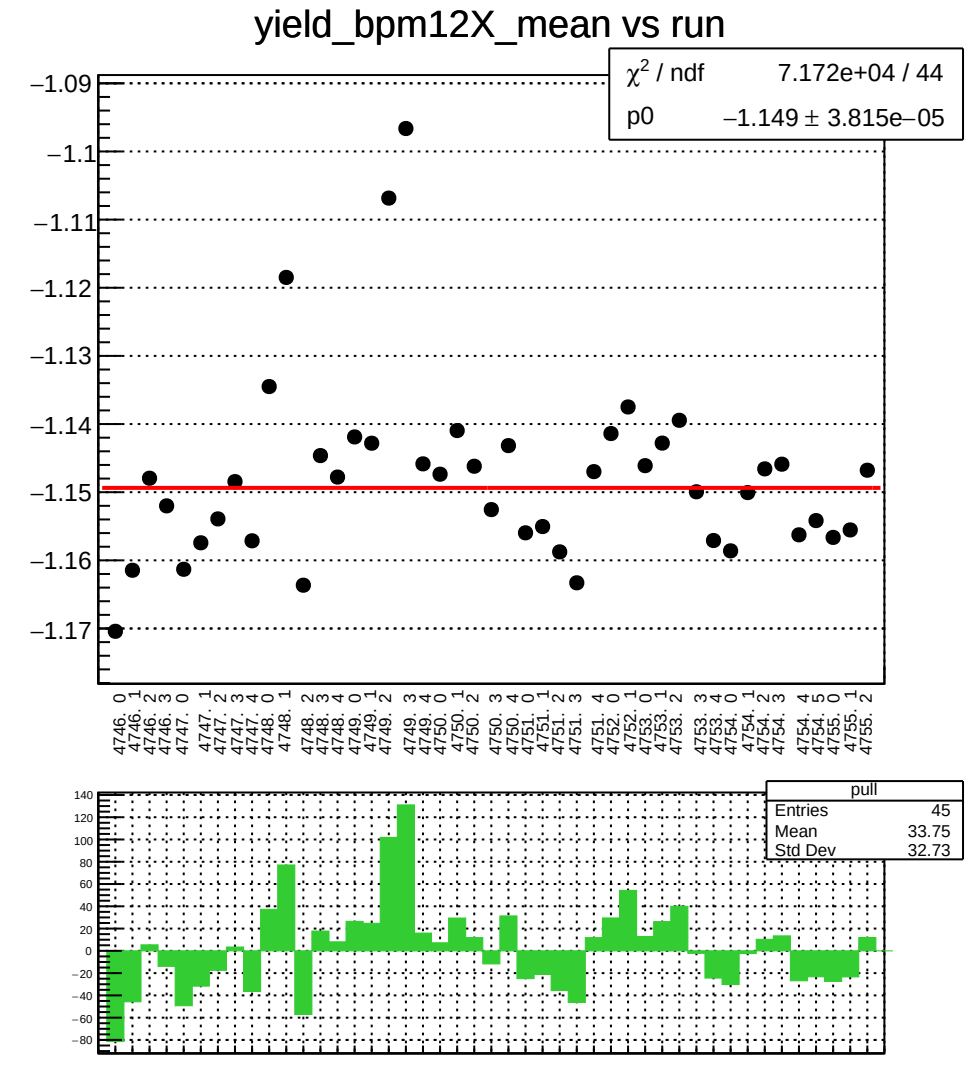

yield_bpm11X_mean vs run
χ² / ndf 4.232e+06 / 44
p0 0.9174 ± 3.497e−05
pull
Entries 45
Mean 103.8
Std Dev 84.4

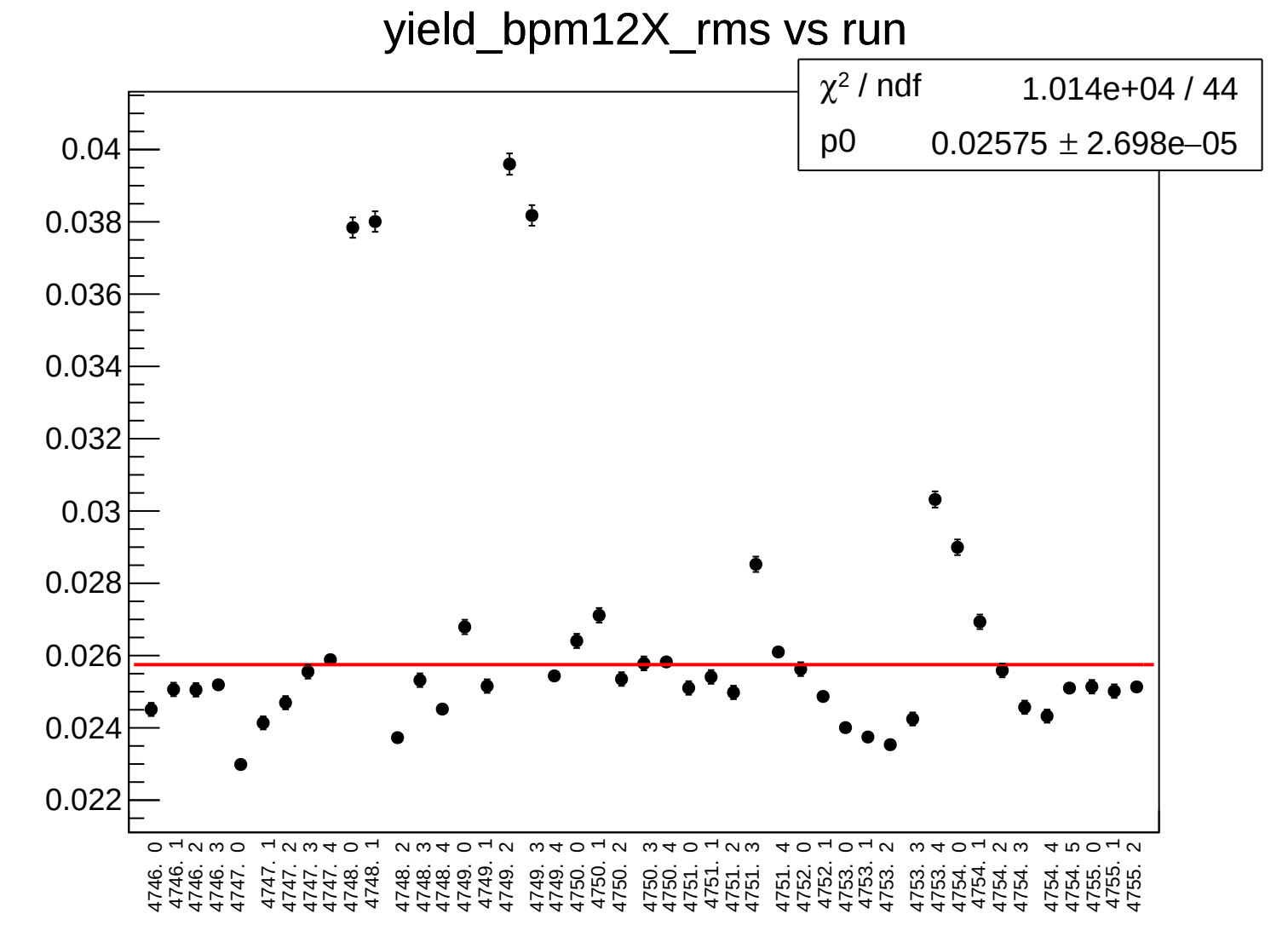

pull1D
Entries 45
Mean 0
Std Dev 0

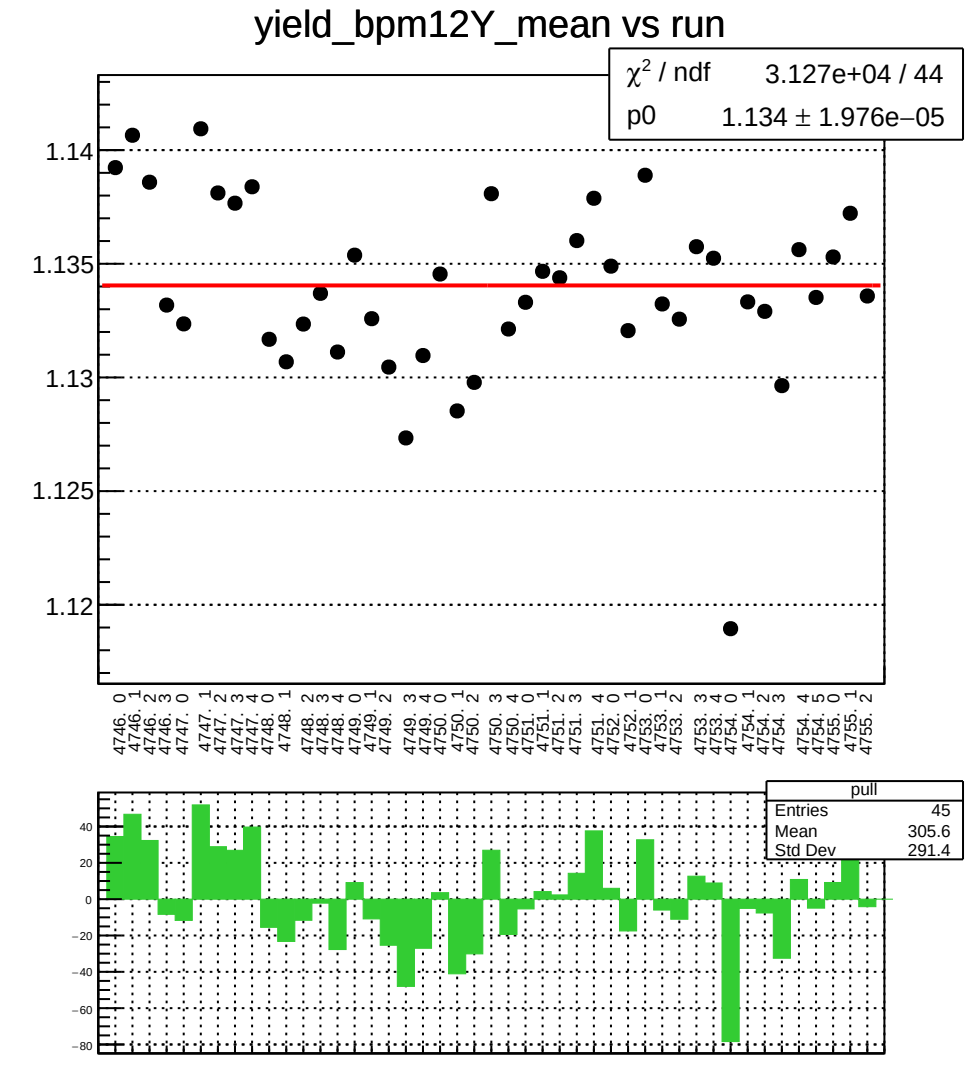

yield_bpm11X_rms vs run
χ² / ndf 2.155e+04 / 44
p0 0.02345 ± 2.473e–05
0.06
0.05
0.04
0.03
0.02
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

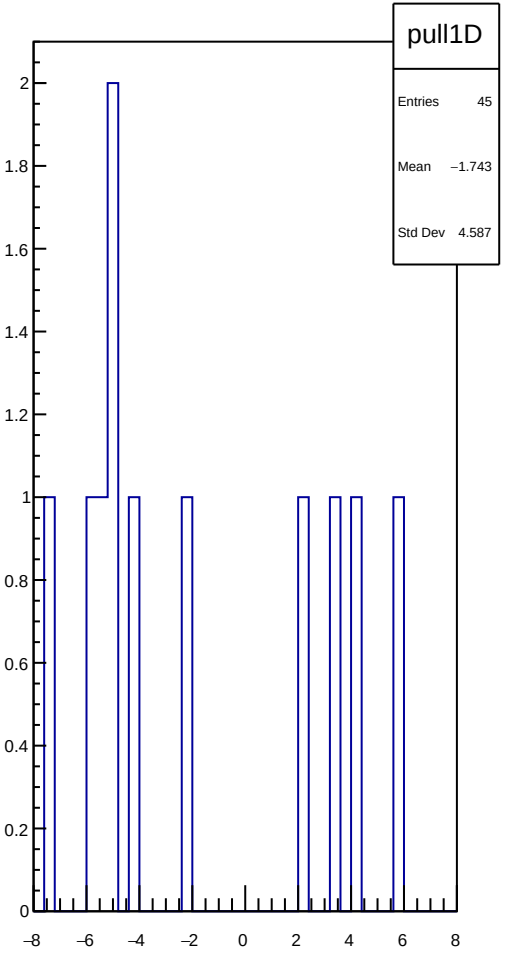

yield_bpm11Y_mean vs run
χ² / ndf 9.827e+07 / 44
p0 0.5369 ± 5.115e−06
0.6
0.55
0.5
0.45
0.4
0.35
0.3
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 62.42
Std Dev 42.87
2000
1000
0
−1000
−2000
−3000
−4000
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

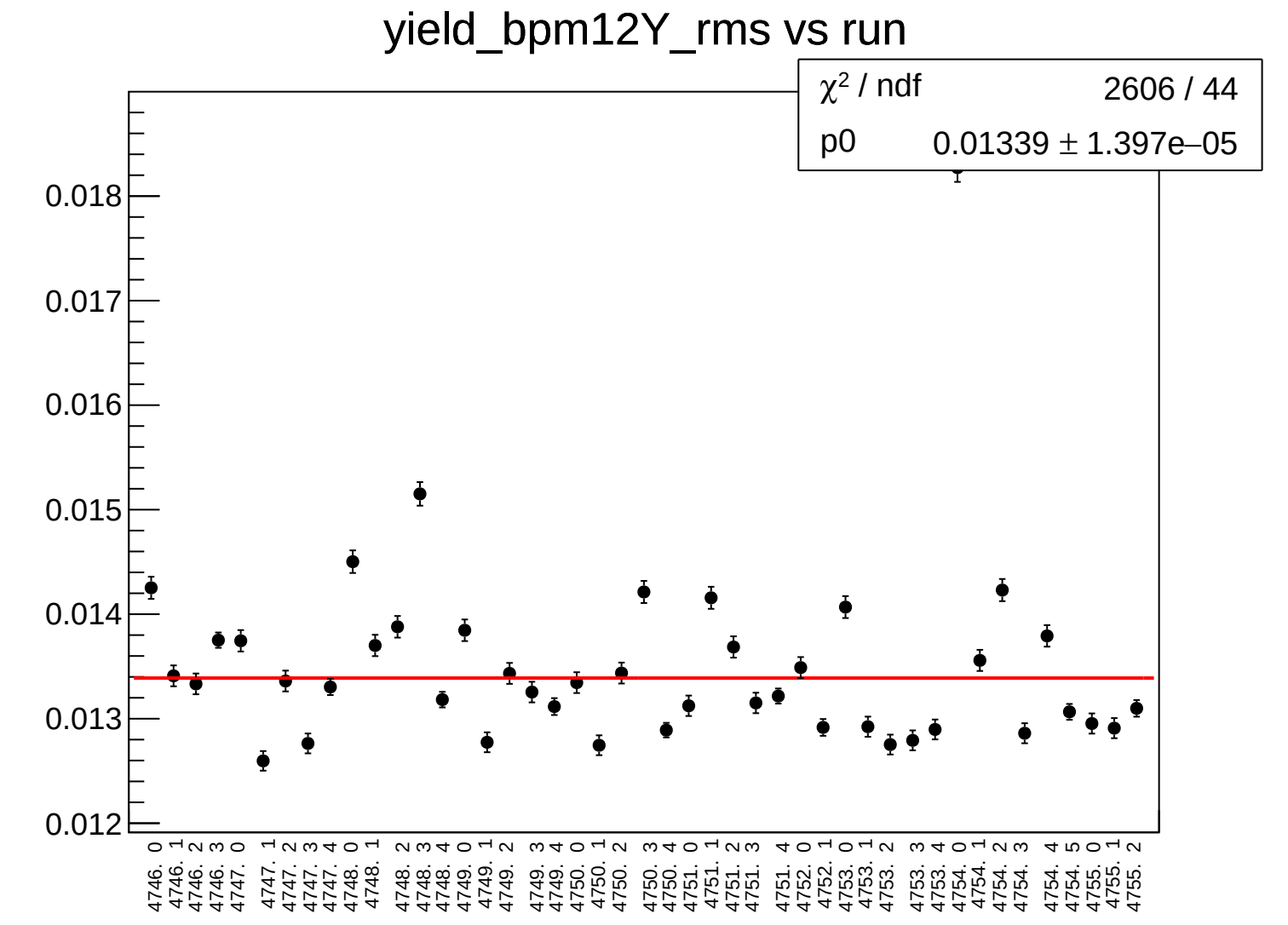

yield_bpm11Y_rms vs run
χ² / ndf 1.483e+05 / 44
p0 0.00318 ± 3.617e–06
0.07
0.06
0.05
0.04
0.03
0.02
0.01
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

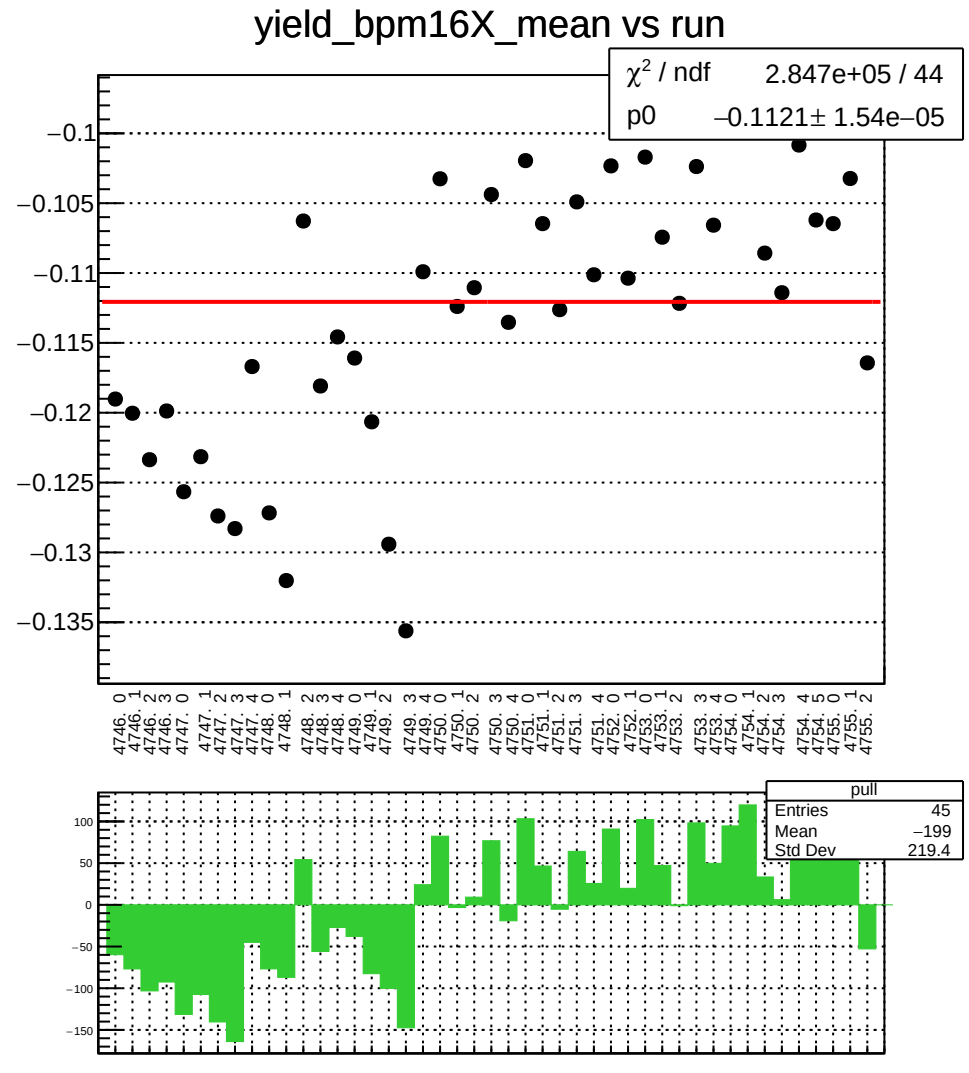

yield_bpm12X_mean vs run
χ² / ndf 7.172e+04 / 44
p0 −1.149 ± 3.815e−05
−1.09
−1.1
−1.11
−1.12
−1.13
−1.14
−1.15
−1.16
−1.17
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 33.75
Std Dev 32.73
140
120
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 45
Mean 2.269
Std Dev 3.946
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm12X_rms vs run
χ² / ndf 1.014e+04 / 44
p0 0.02575 ± 2.698e–05
0.04
0.038
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2


yield_bpm12Y_mean vs run
χ² / ndf 3.127e+04 / 44
p0 1.134 ± 1.976e−05
1.14
1.135
1.13
1.125
1.12
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 305.6
Std Dev 291.4
40
20
0
−20
−40
−60
−80


pull1D
Entries 45
Mean −1.743
Std Dev 4.587
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm12Y_rms vs run
χ² / ndf 2606 / 44
p0 0.01339 ± 1.397e–05
0.018
0.017
0.016
0.015
0.014
0.013
0.012
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2


yield_bpm16X_mean vs run
χ² / ndf 2.847e+05 / 44
p0 −0.1121± 1.54e−05
−0.1
−0.105
−0.11
−0.115
−0.12
−0.125
−0.13
−0.135
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
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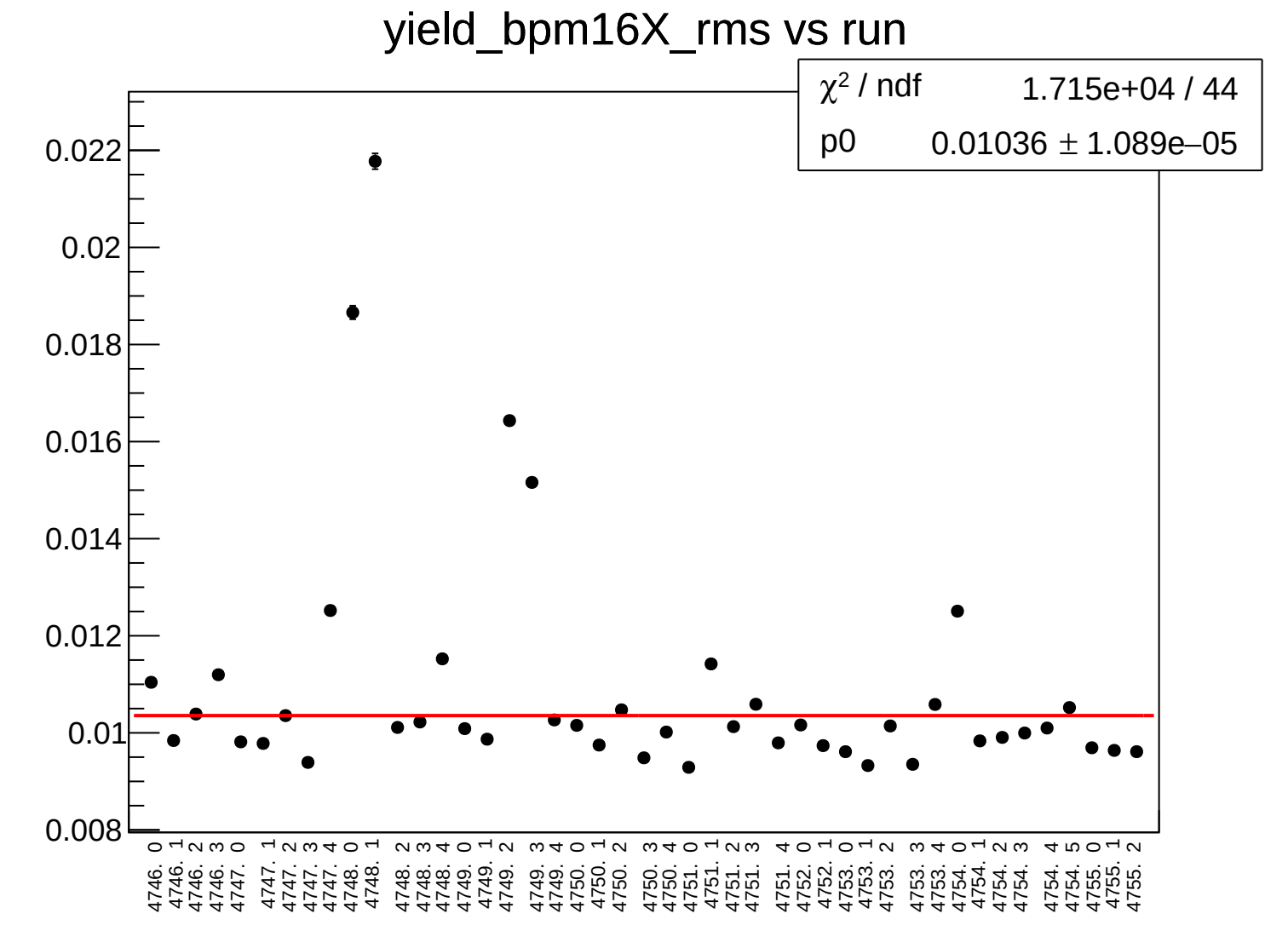
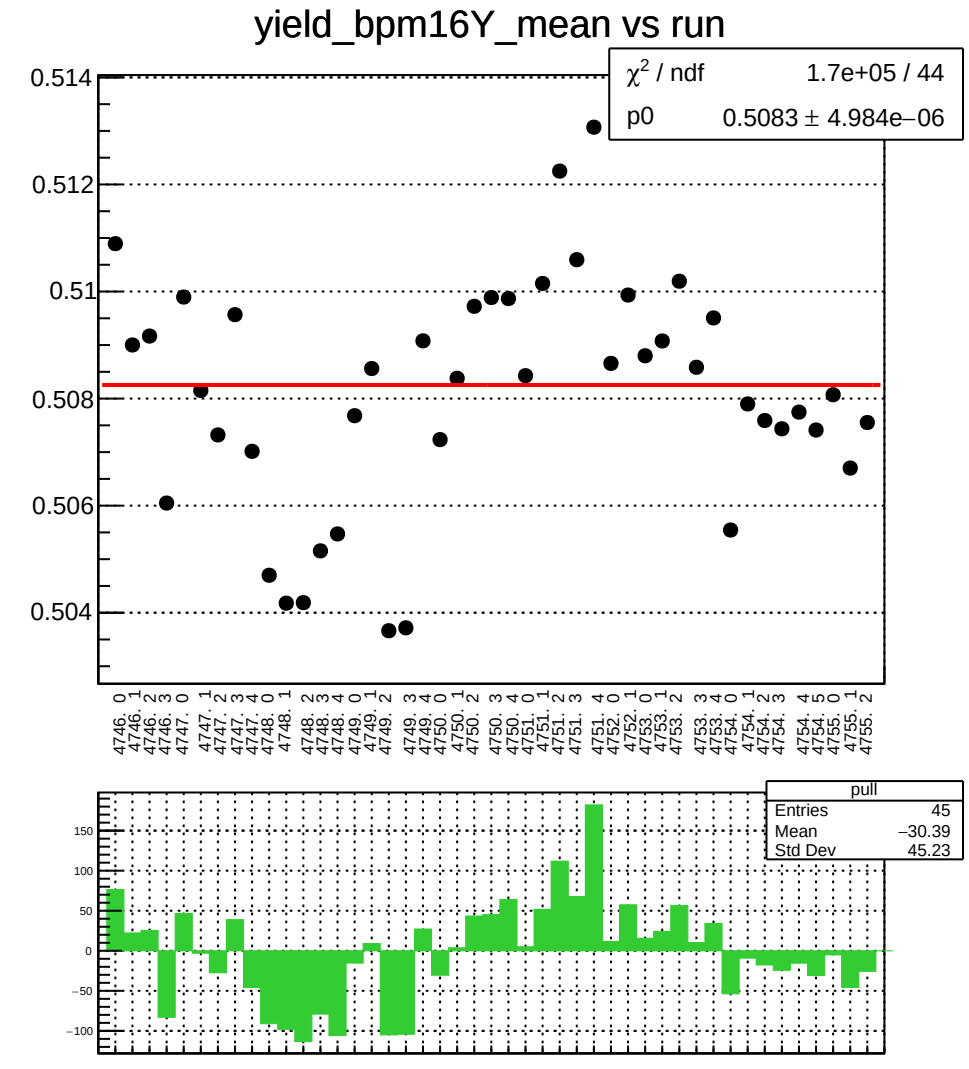
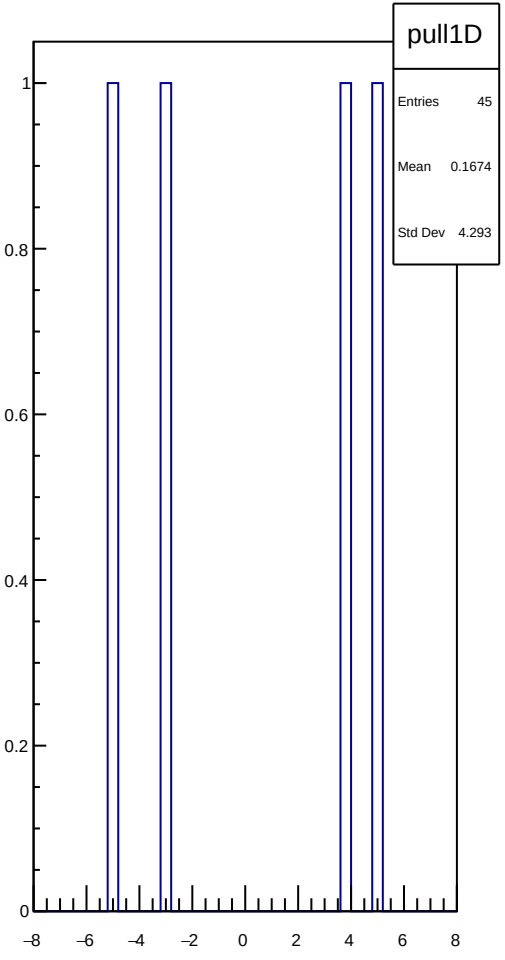
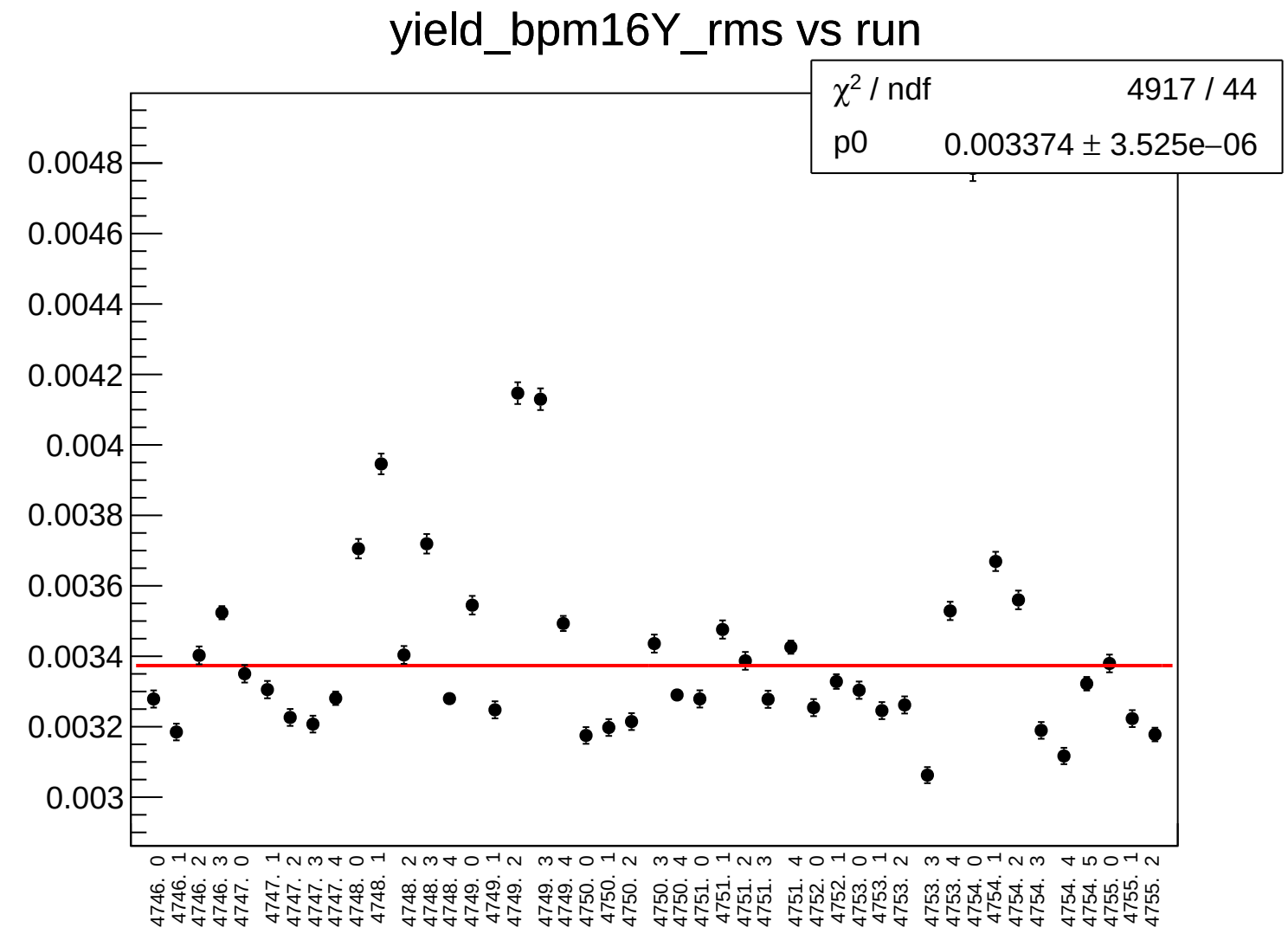
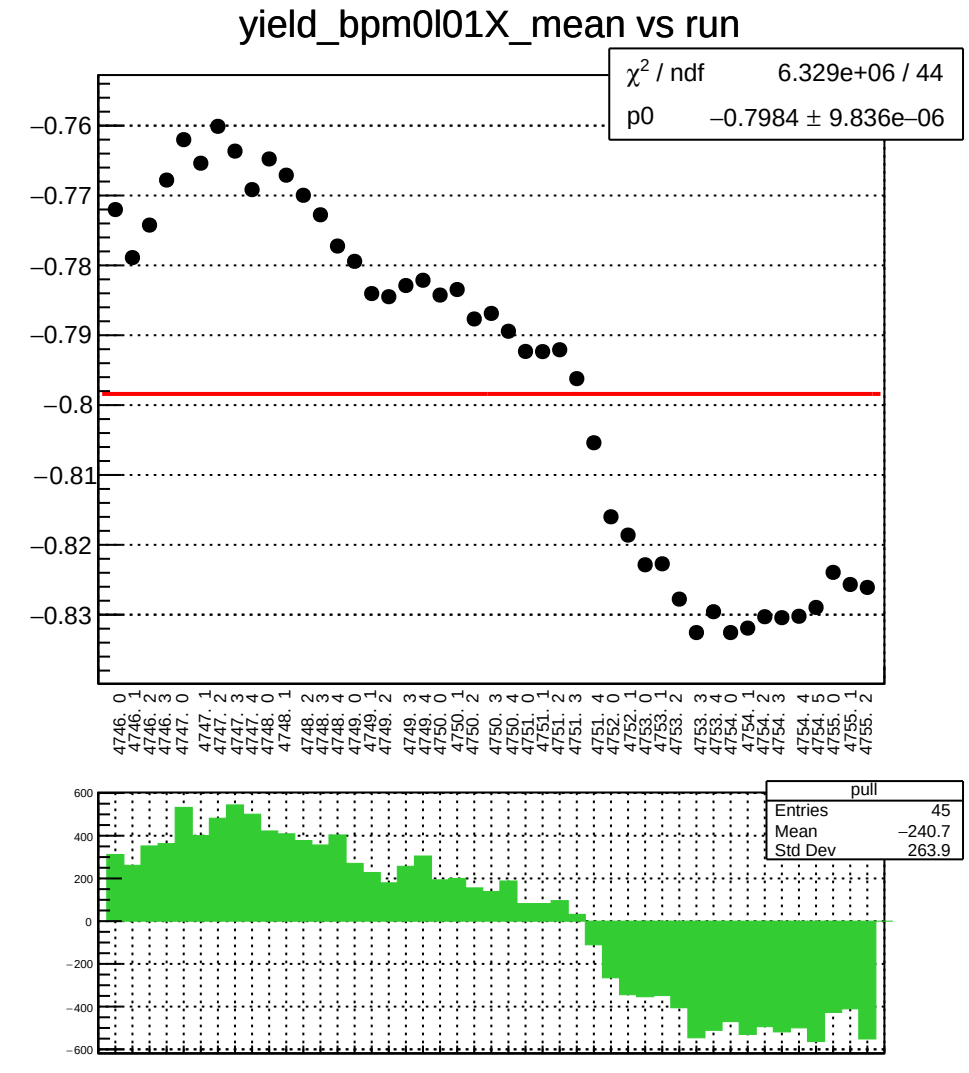
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −199
Std Dev 219.4
100
50
0
−50
−100
−150
pull1D
Entries 45
Mean −0.7972
Std Dev 4.316
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

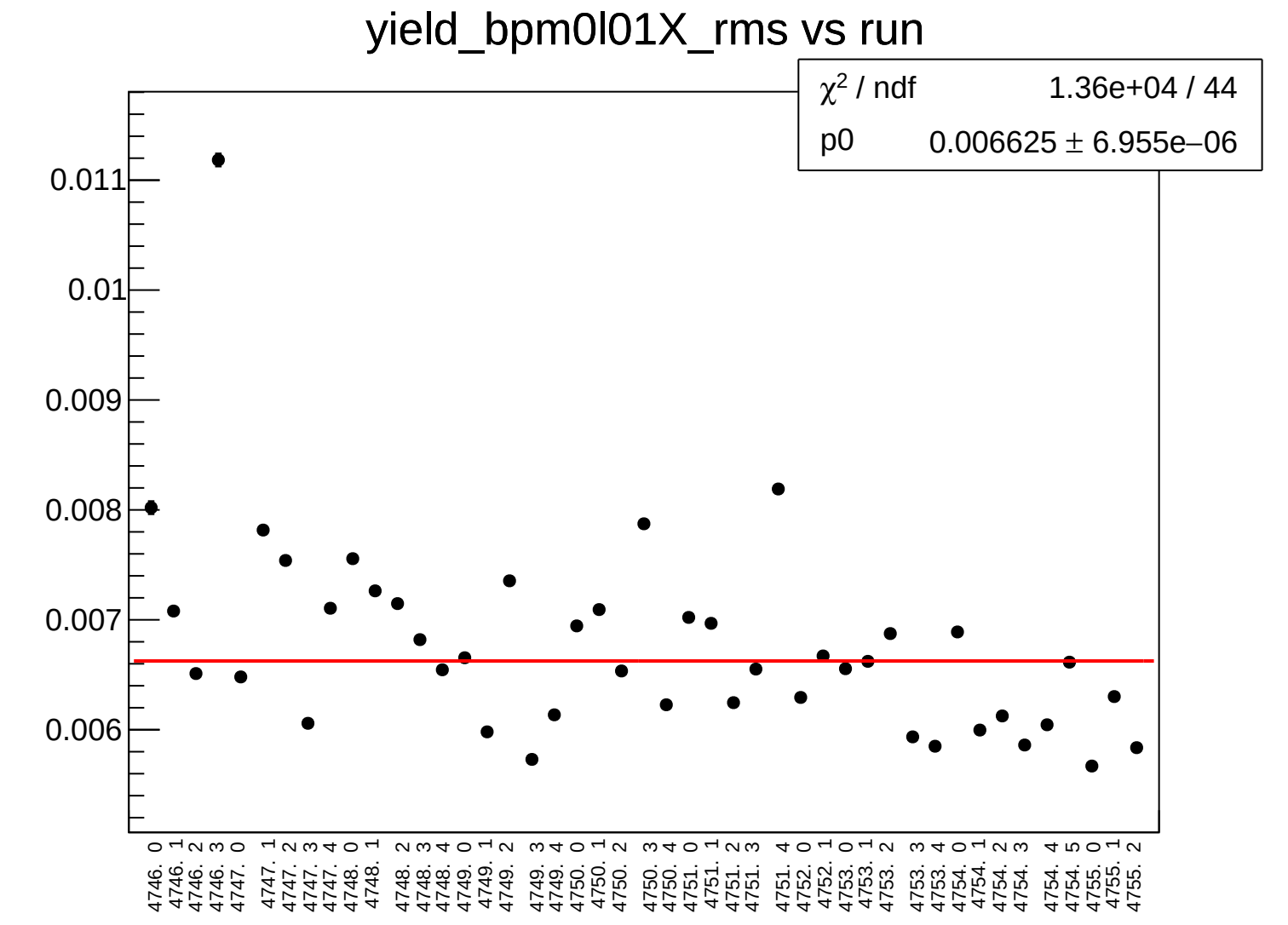

yield_bpm16X_rms vs run
χ² / ndf 1.715e+04 / 44
p0 0.01036 ± 1.089e–05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

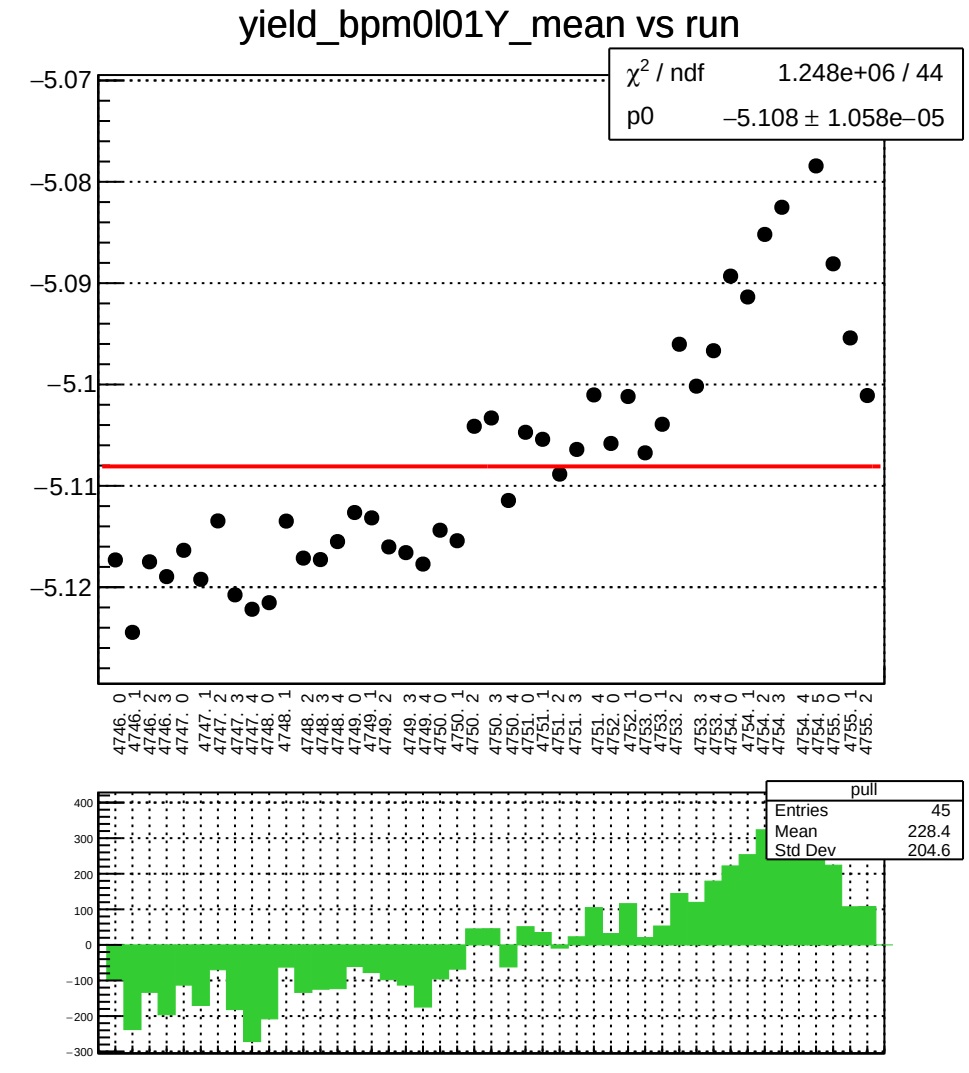

yield_bpm16Y_mean vs run
χ² / ndf 1.7e+05 / 44
p0 0.5083 ± 4.984e−06
0.514
0.512
0.51
0.508
0.506
0.504
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −30.39
Std Dev 45.23
150
100
50
0
−50
−100

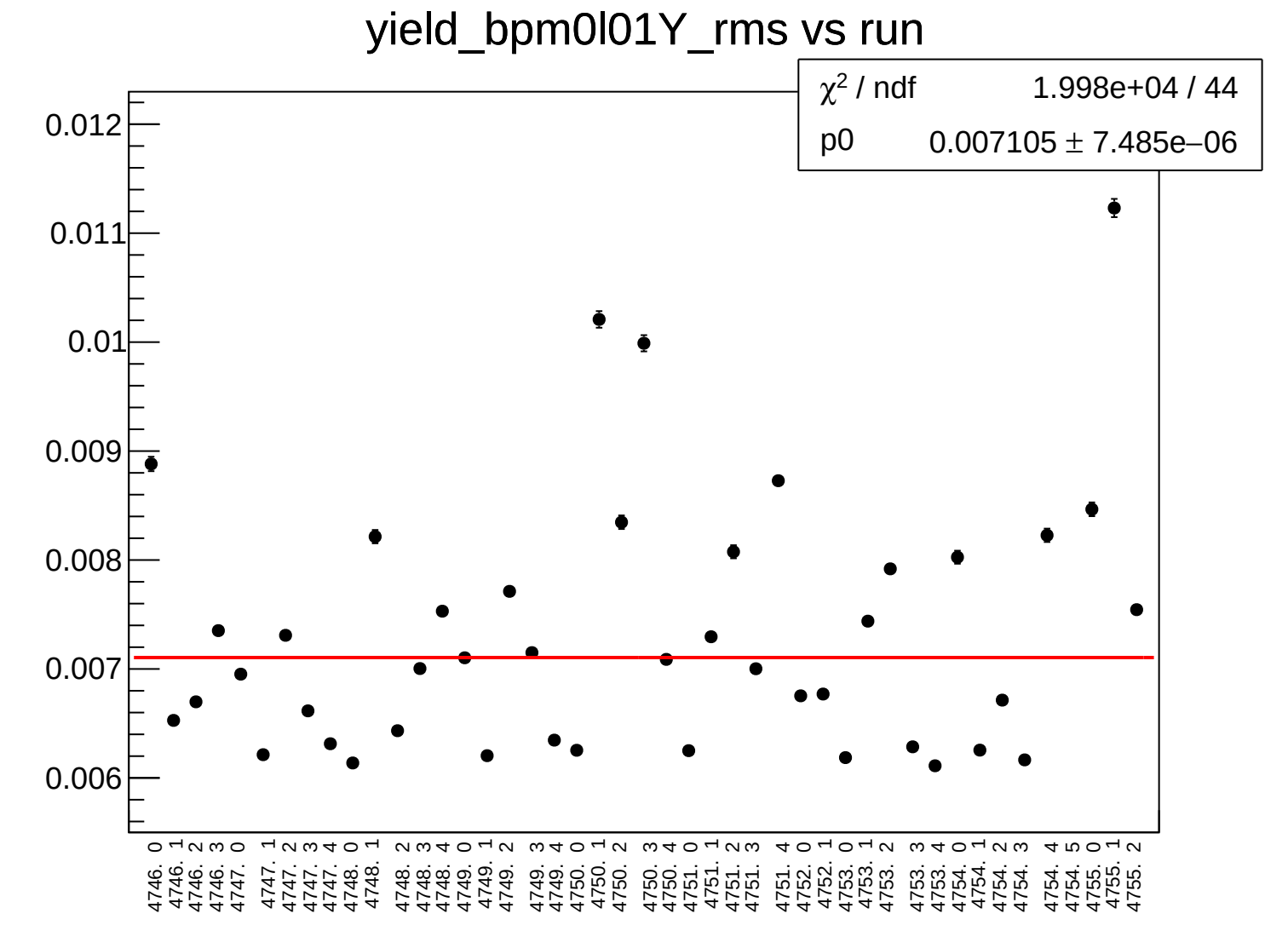

pull1D
Entries 45
Mean 0.1674
Std Dev 4.293
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

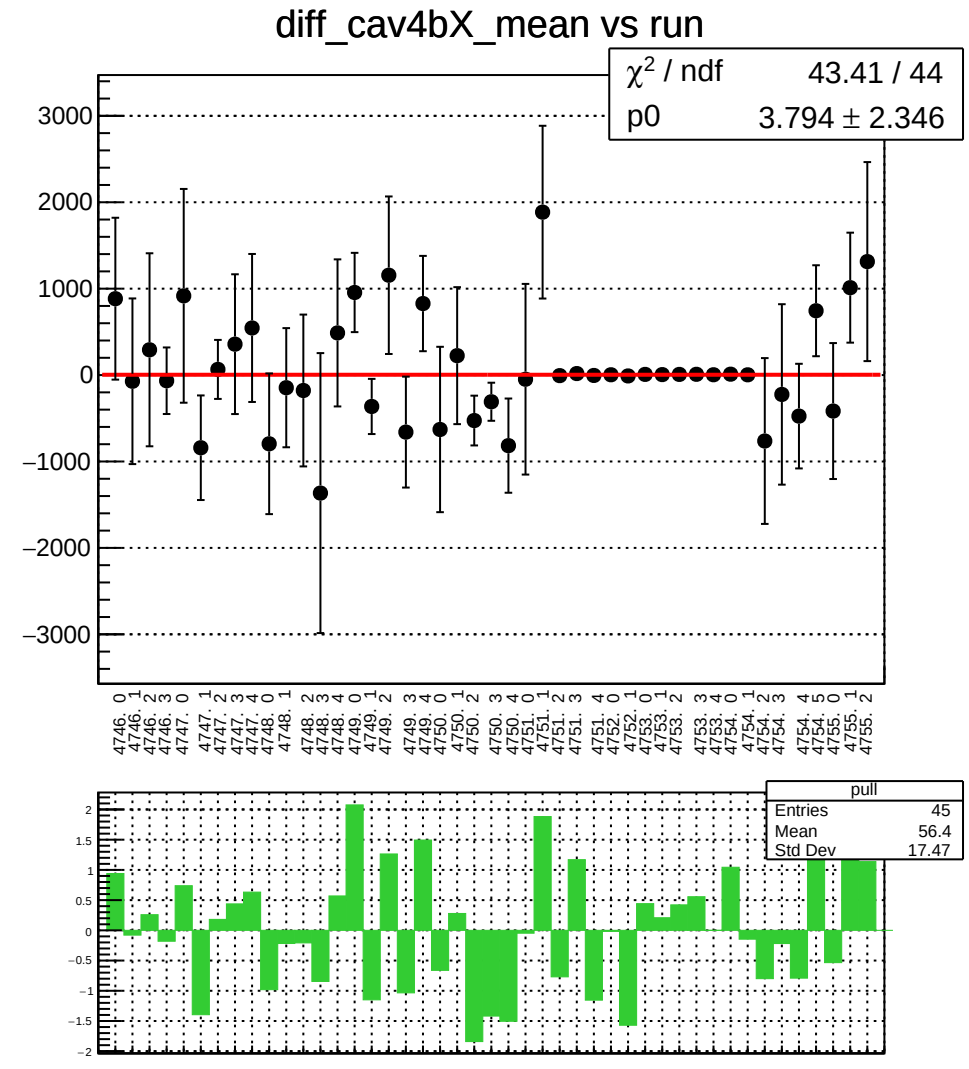

yield_bpm16Y_rms vs run
χ² / ndf 4917 / 44
p0 0.003374 ± 3.525e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

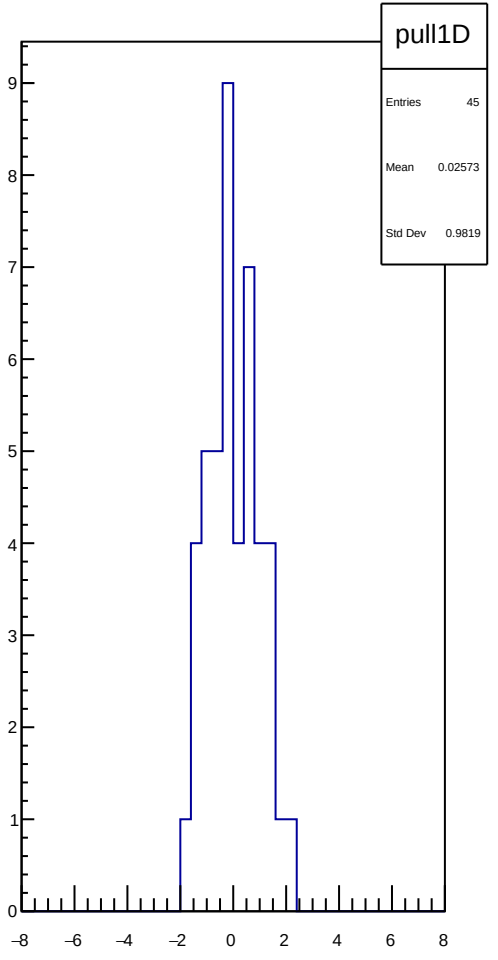

yield_bpm0l01X_mean vs run
χ² / ndf 6.329e+06 / 44
p0 −0.7984 ± 9.836e−06
−0.76
−0.77
−0.78
−0.79
−0.8
−0.81
−0.82
−0.83
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −240.7
Std Dev 263.9
600
400
200
0
−200
−400
−600
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

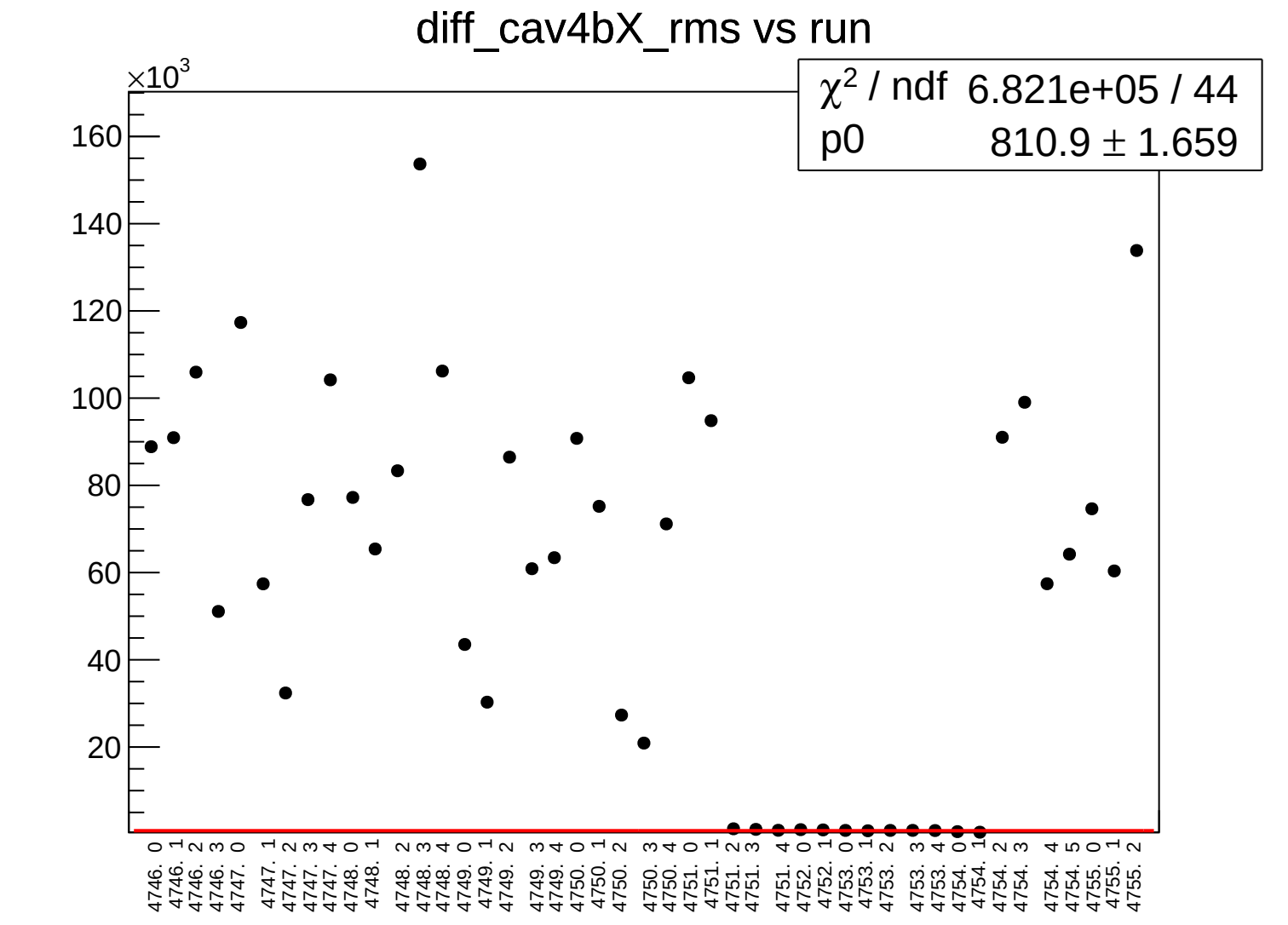

yield_bpm0l01X_rms vs run
χ² / ndf 1.36e+04 / 44
p0 0.006625 ± 6.955e−06
0.011
0.01
0.009
0.008
0.007
0.006
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

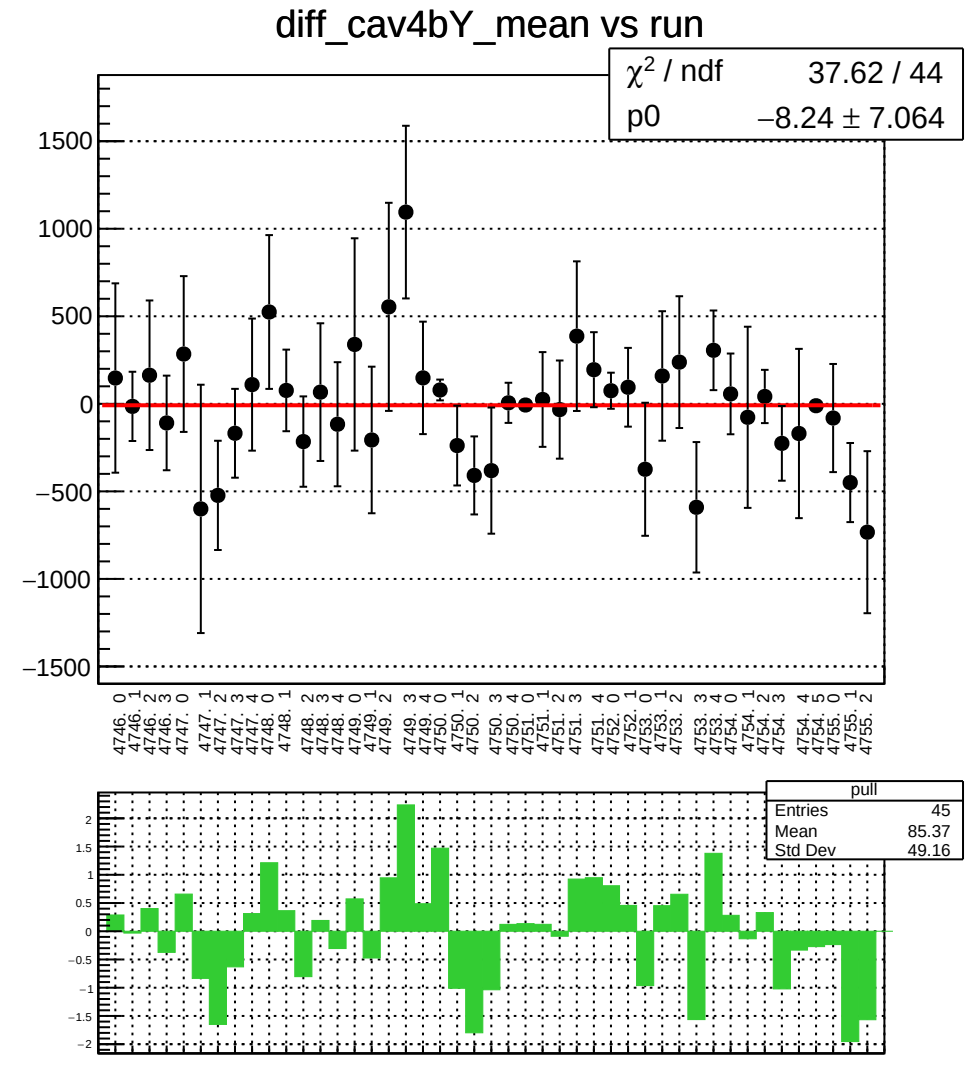

yield_bpm0l01Y_mean vs run
χ² / ndf 1.248e+06 / 44
p0 −5.108 ± 1.058e−05
−5.07
−5.08
−5.09
−5.1
−5.11
−5.12
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 228.4
Std Dev 204.6
400
300
200
100
0
−100
−200
−300
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

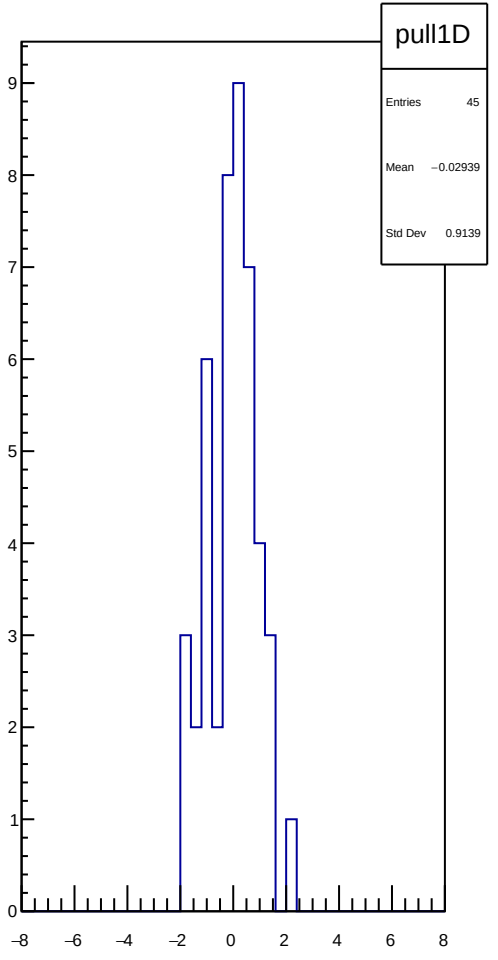

yield_bpm0l01Y_rms vs run
χ² / ndf 1.998e+04 / 44
p0 0.007105 ± 7.485e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

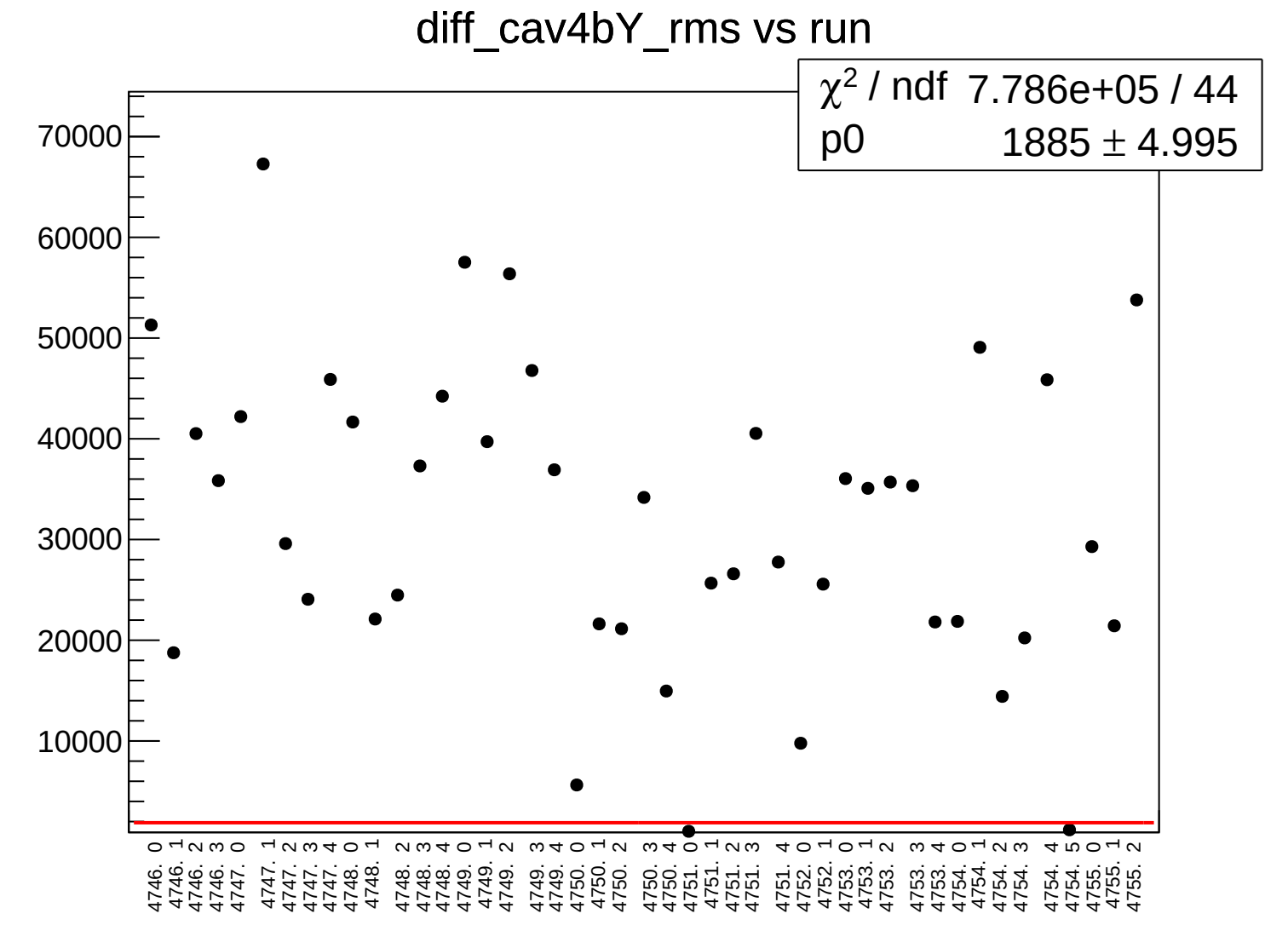

diff_cav4bX_mean vs run
χ^2 / ndf 43.41 / 44
p0 3.794 ± 2.346
3000
2000
1000
0
−1000
−2000
−3000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 56.4
Std Dev 17.47
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

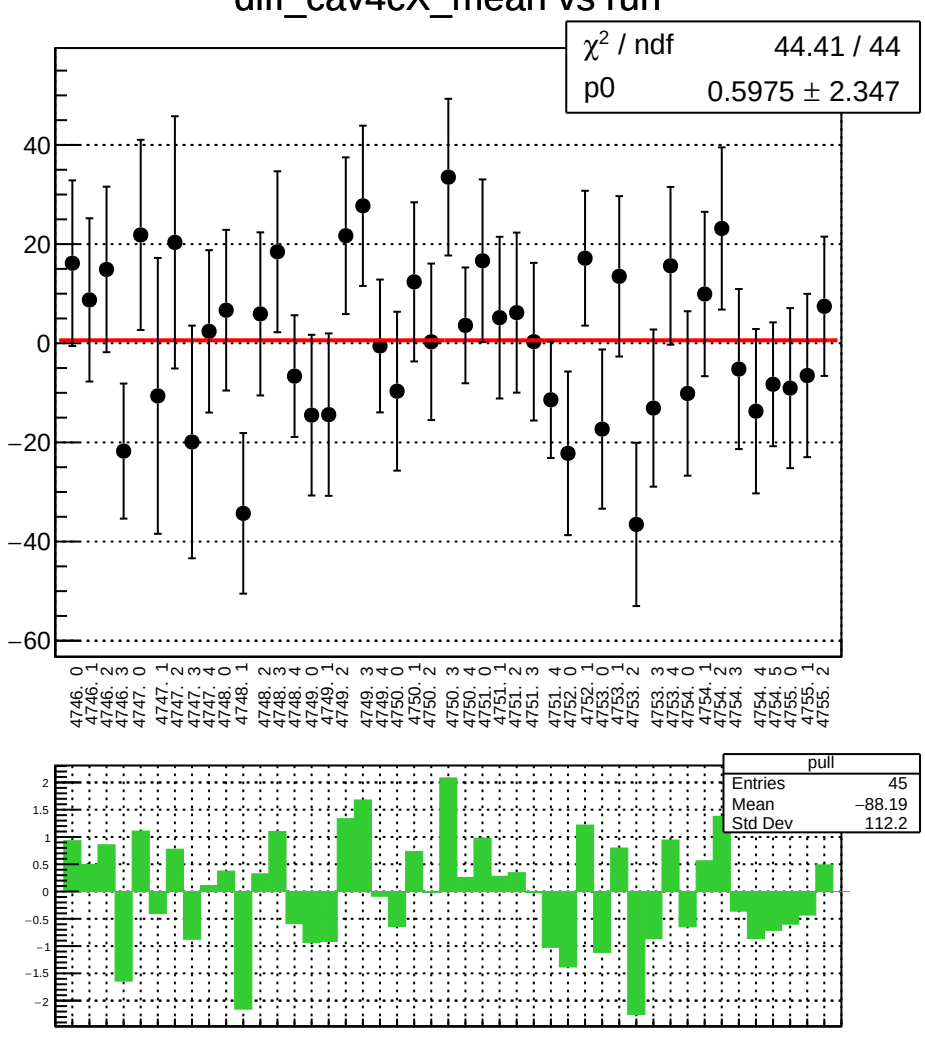

pull1D
Entries 45
Mean 0.02573
Std Dev 0.9819
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

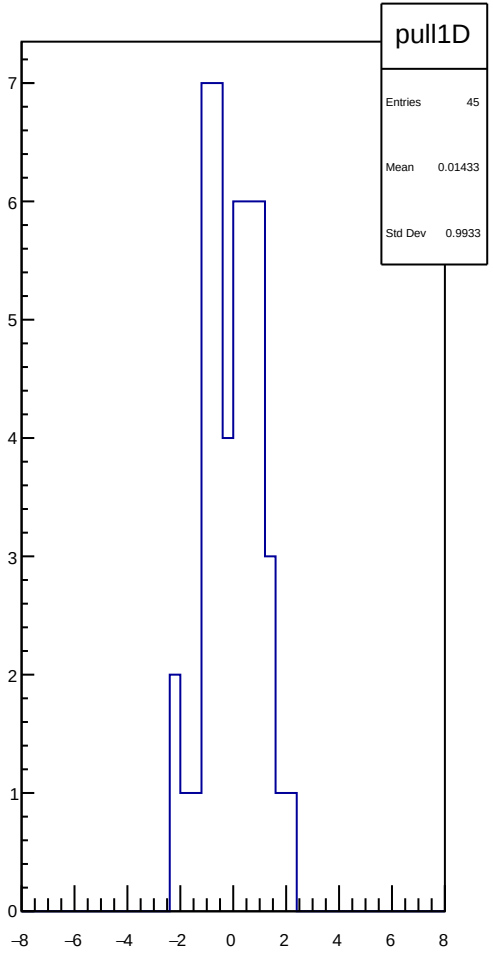

diff_cav4bX_rms vs run
×10^3
χ^2 / ndf 6.821e+05 / 44
p0 810.9 ± 1.659
160
140
120
100
80
60
40
20
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

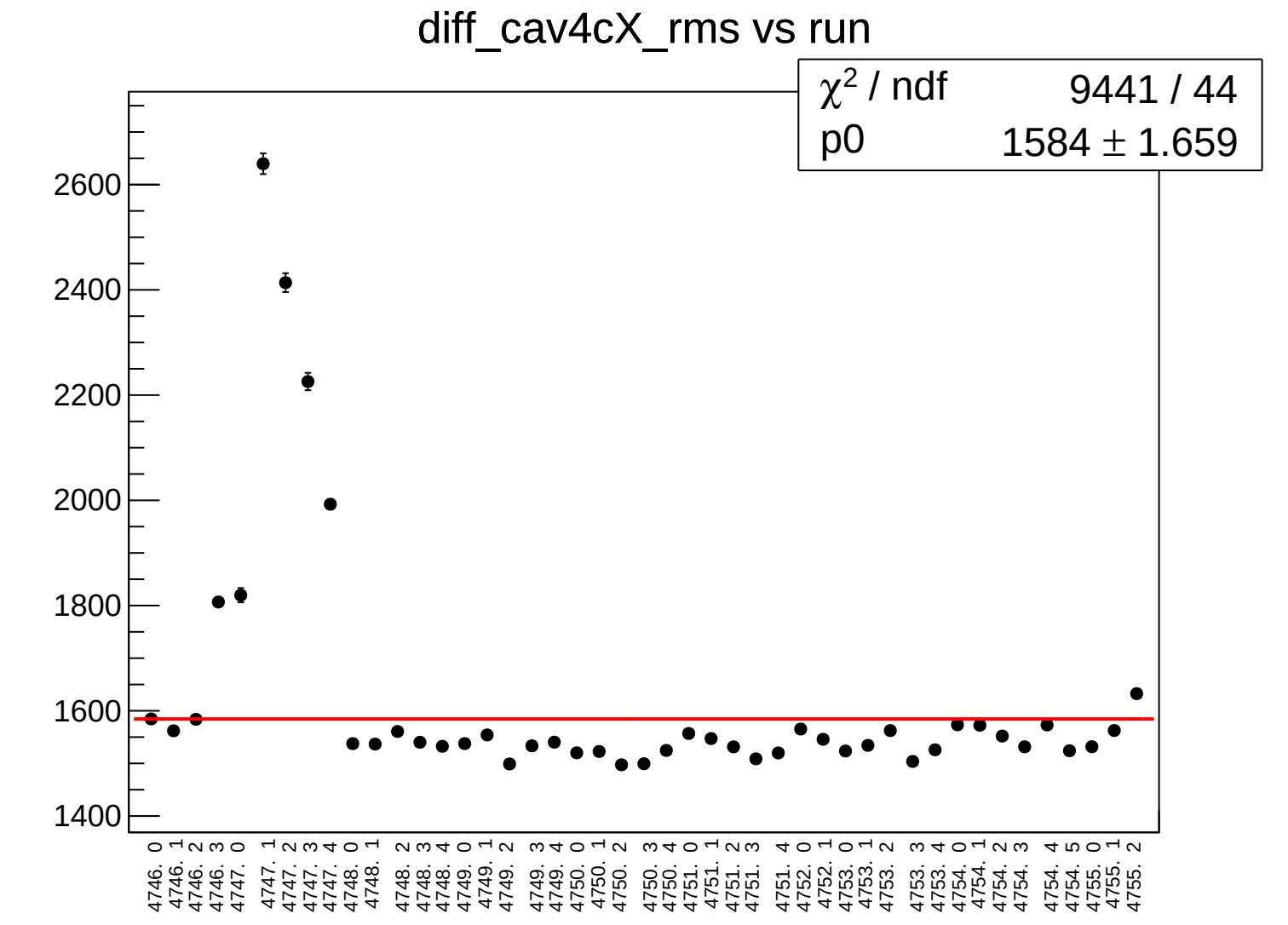

diff_cav4bY_mean vs run
χ² / ndf 37.62 / 44
p0 −8.24 ± 7.064
1500
1000
500
0
−500
−1000
−1500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 85.37
Std Dev 49.16
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

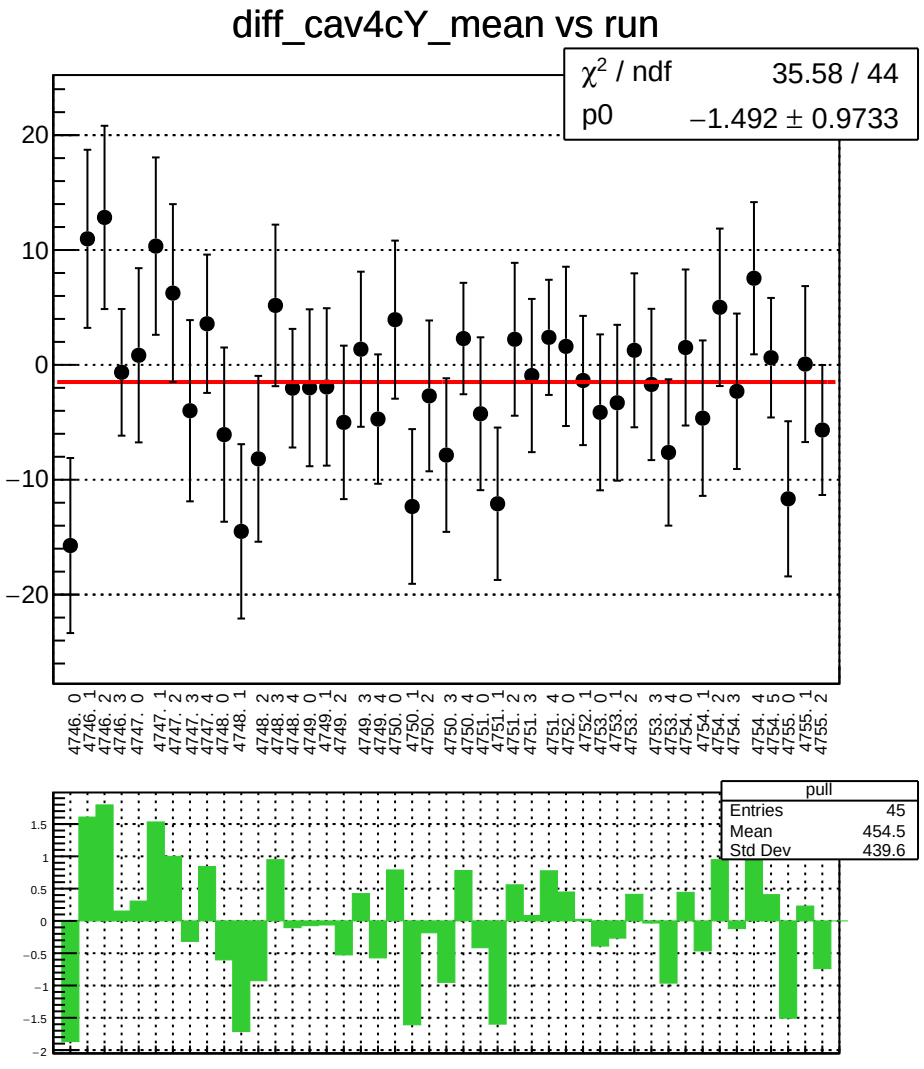

pull1D
Entries 45
Mean −0.02939
Std Dev 0.9139
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

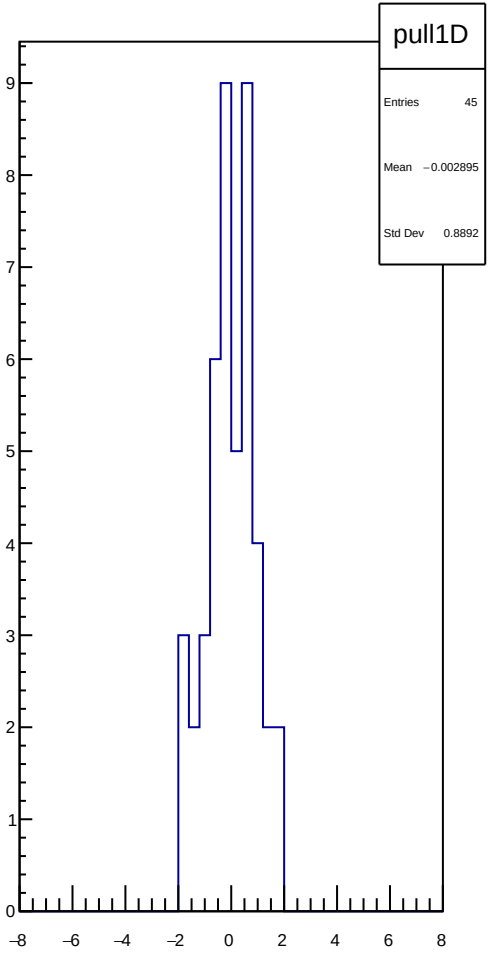

diff_cav4bY_rms vs run
χ² / ndf 7.786e+05 / 44
p0 1885 ± 4.995
70000
60000
50000
40000
30000
20000
10000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

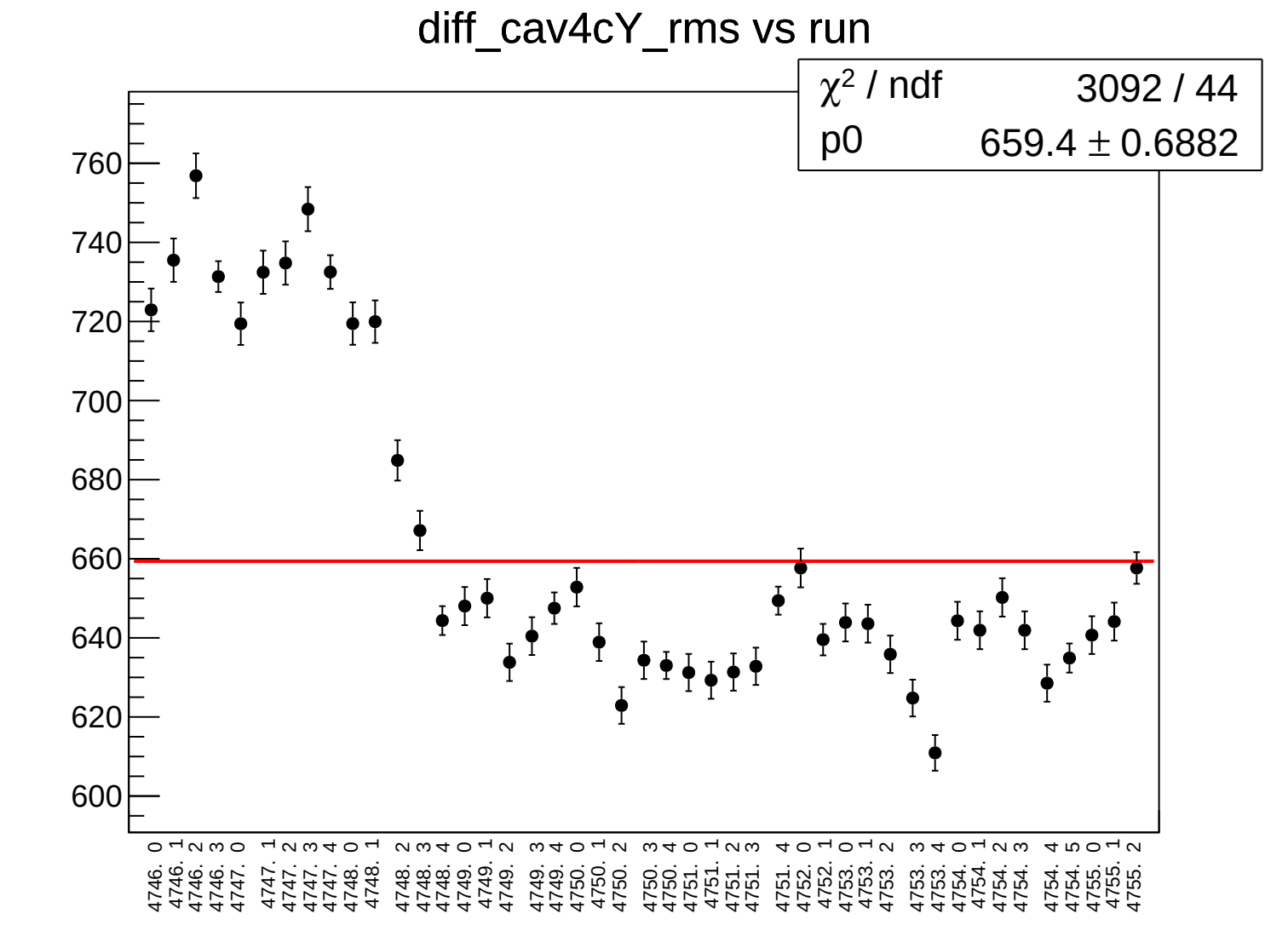

diff_cav4cX_mean vs run
χ² / ndf 44.41 / 44
p0 0.5975 ± 2.347
pull
Entries 45
Mean −88.19
Std Dev 112.2

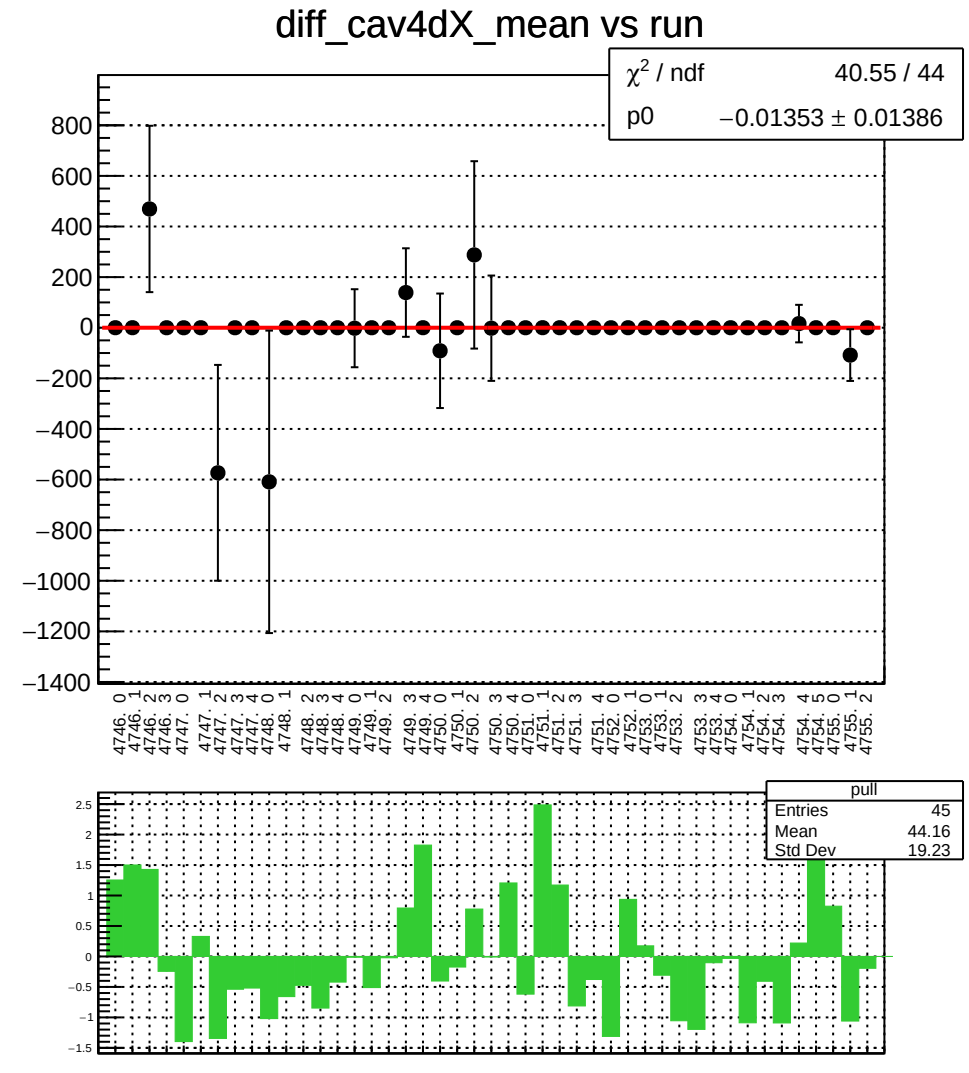

pull1D
Entries 45
Mean 0.01433
Std Dev 0.9933

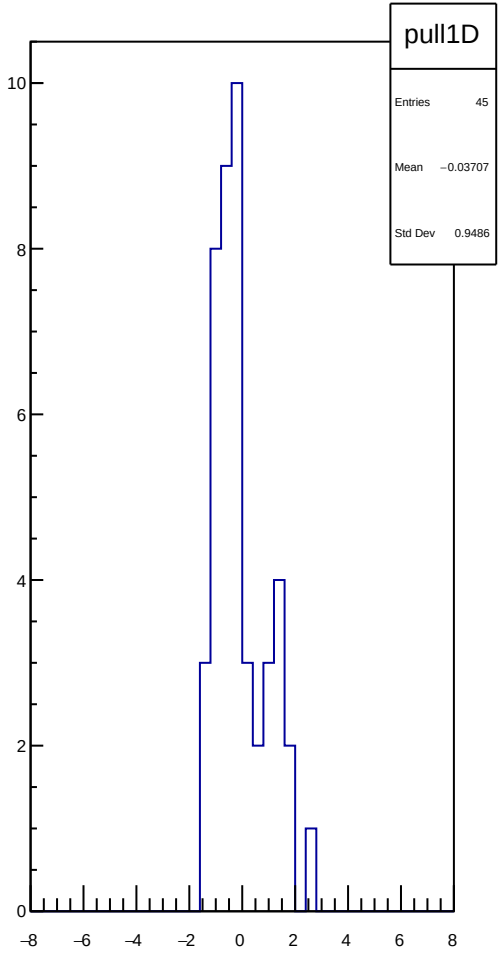

diff_cav4cX_rms vs run
χ² / ndf 9441 / 44
p0 1584 ± 1.659
2600
2400
2200
2000
1800
1600
1400
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

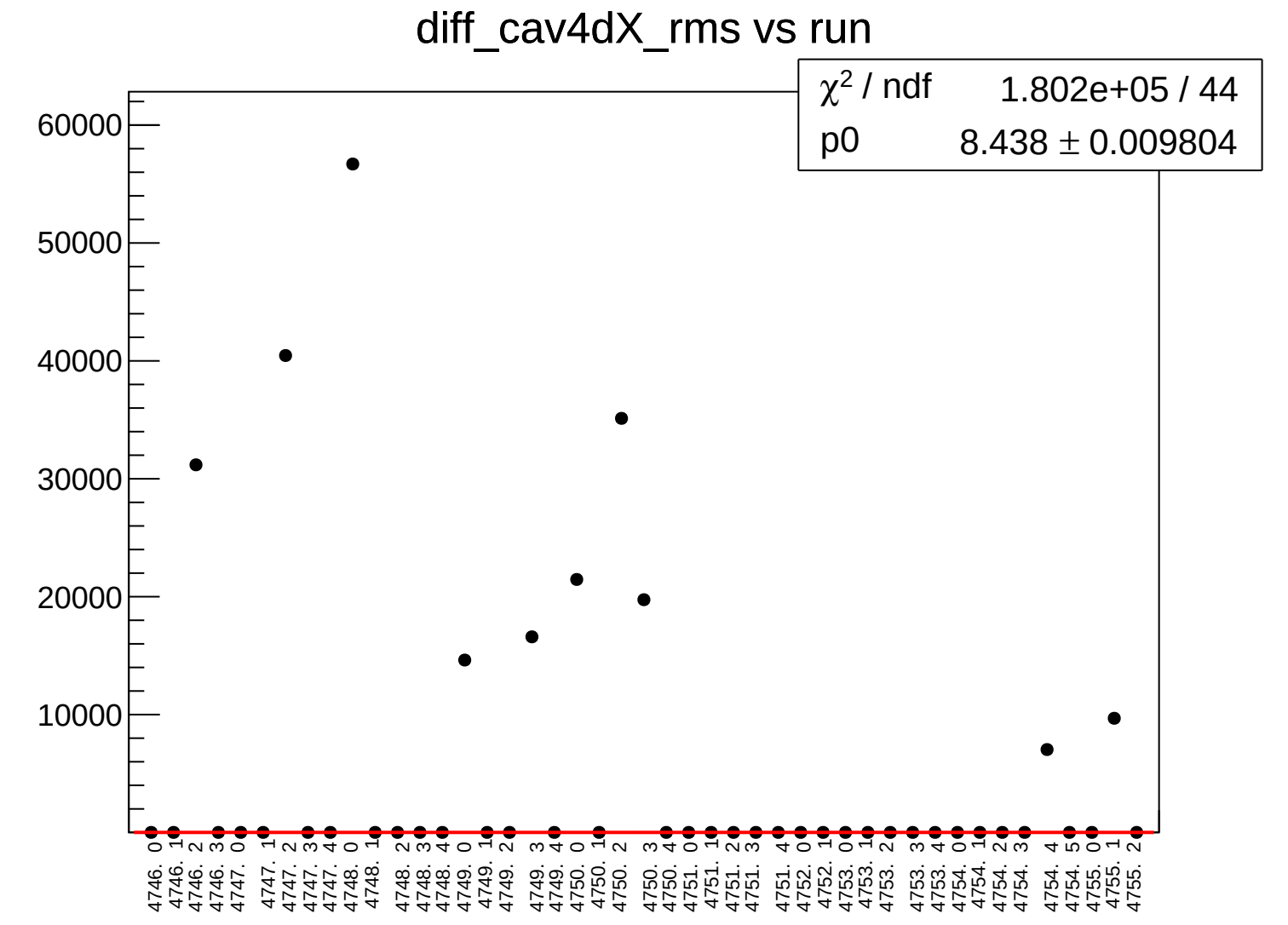

diff_cav4cY_mean vs run
χ² / ndf 35.58 / 44
p0 −1.492 ± 0.9733
20
10
0
−10
−20
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 454.5
Std Dev 439.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

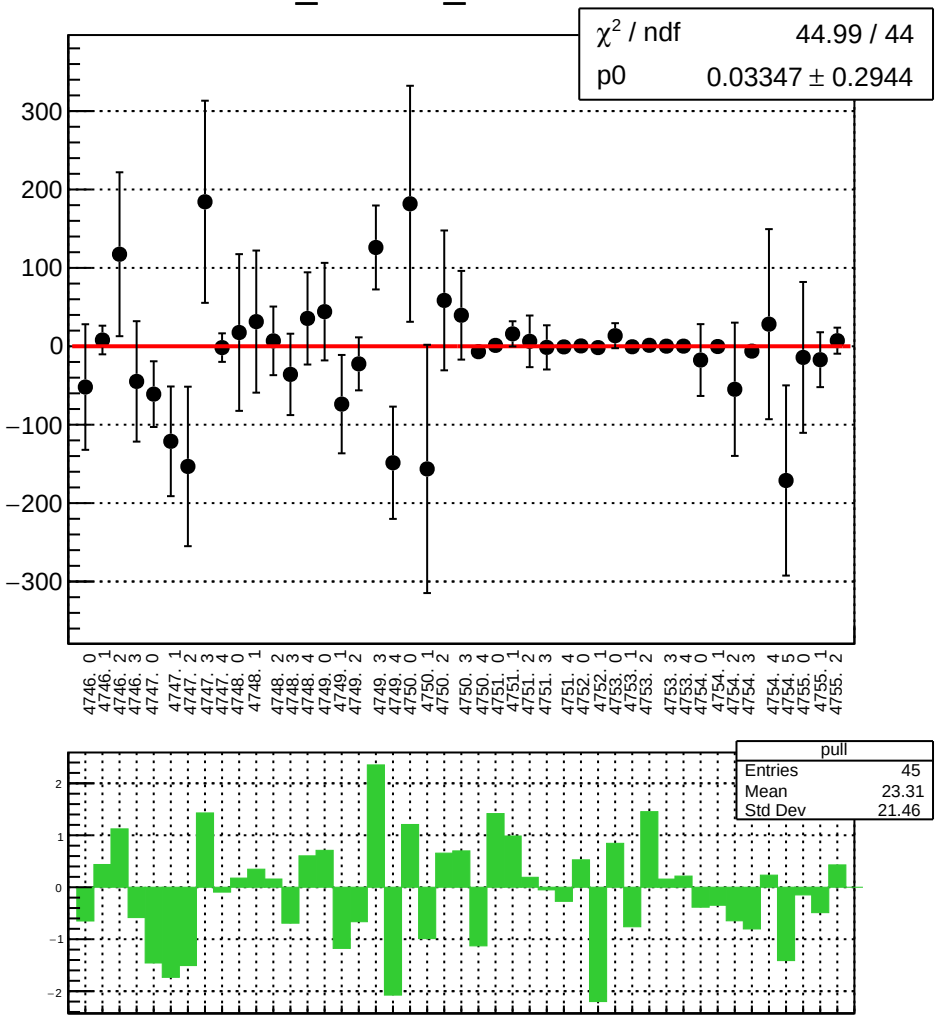

pull1D
Entries 45
Mean −0.002895
Std Dev 0.8892
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

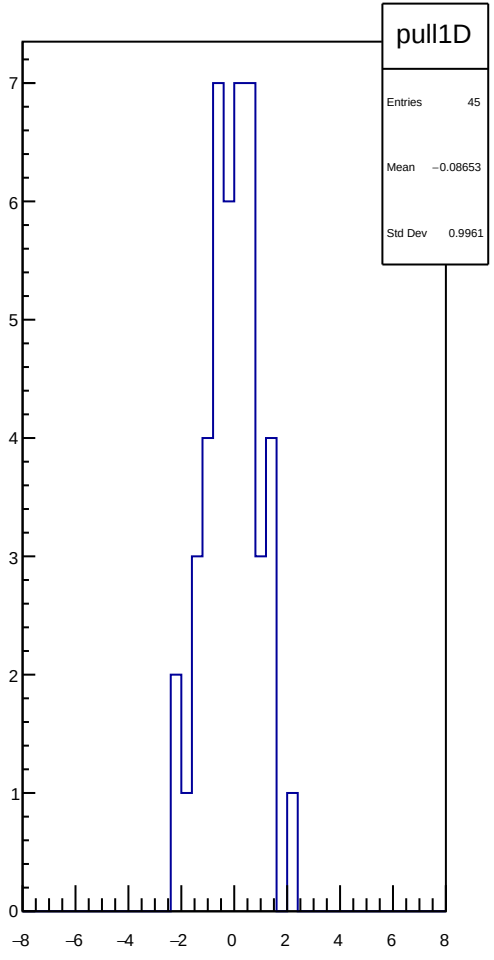

diff_cav4cY_rms vs run
χ² / ndf 3092 / 44
p0 659.4 ± 0.6882
760
740
720
700
680
660
640
620
600
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

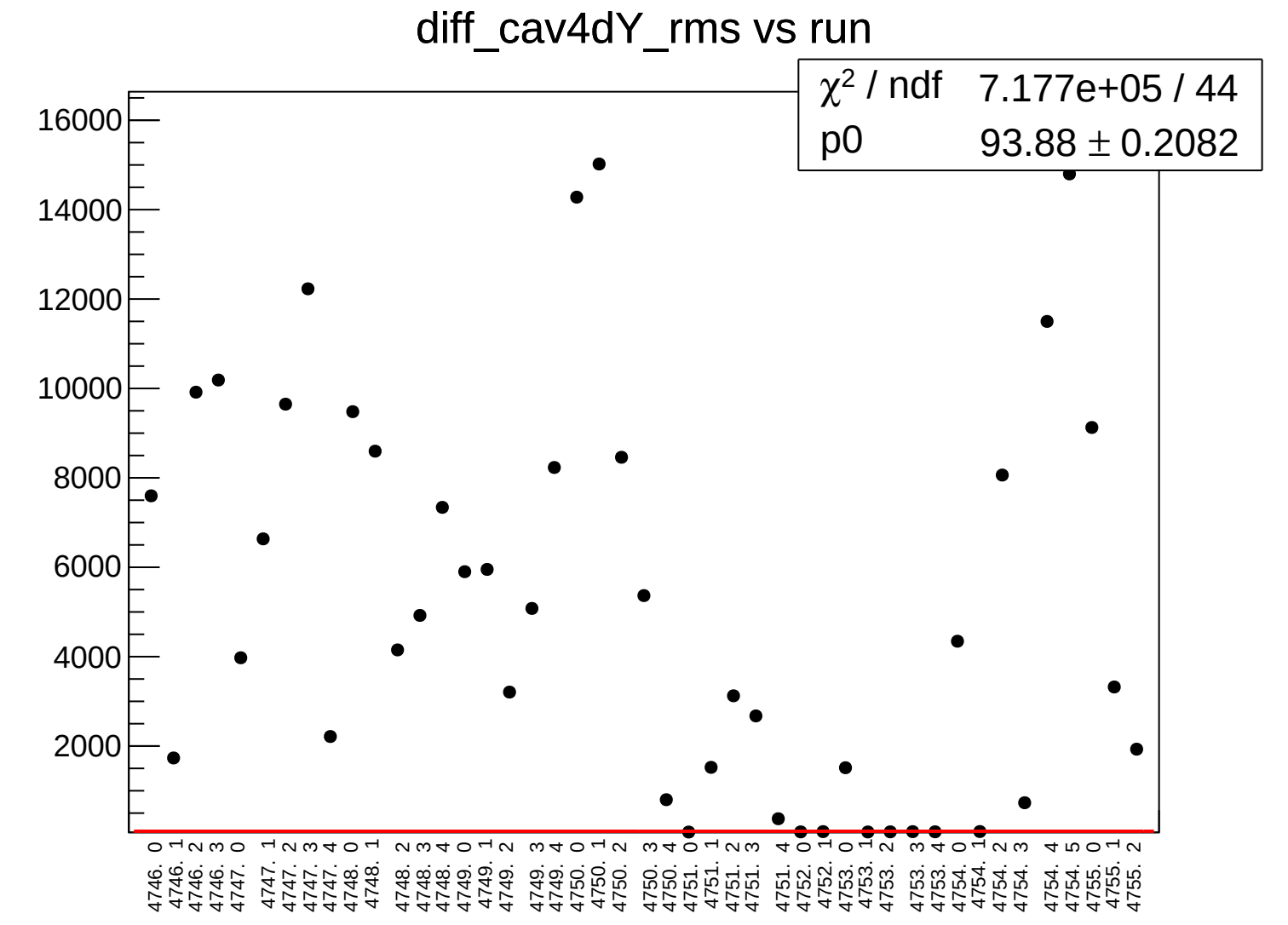

diff_cav4dX_mean vs run
χ² / ndf 40.55 / 44
p0 −0.01353 ± 0.01386
pull
Entries 45
Mean 44.16
Std Dev 19.23

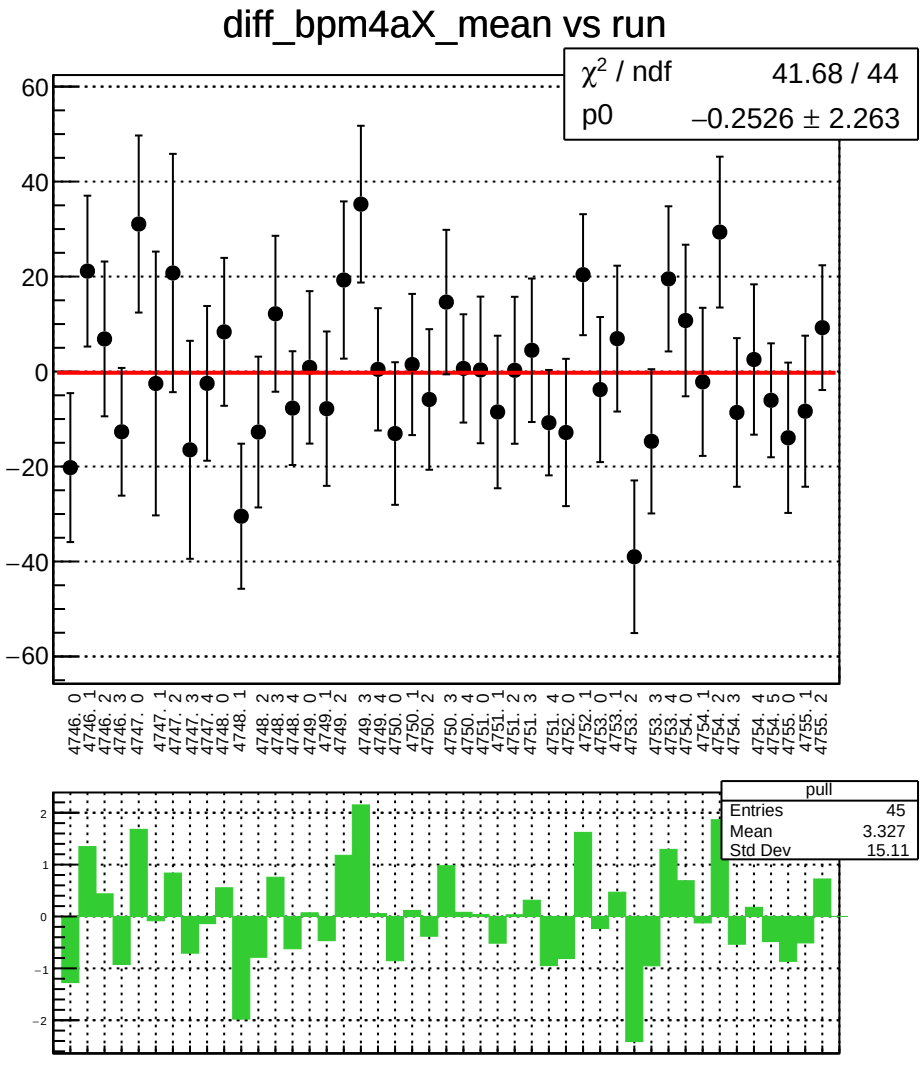

pull1D
Entries 45
Mean −0.03707
Std Dev 0.9486

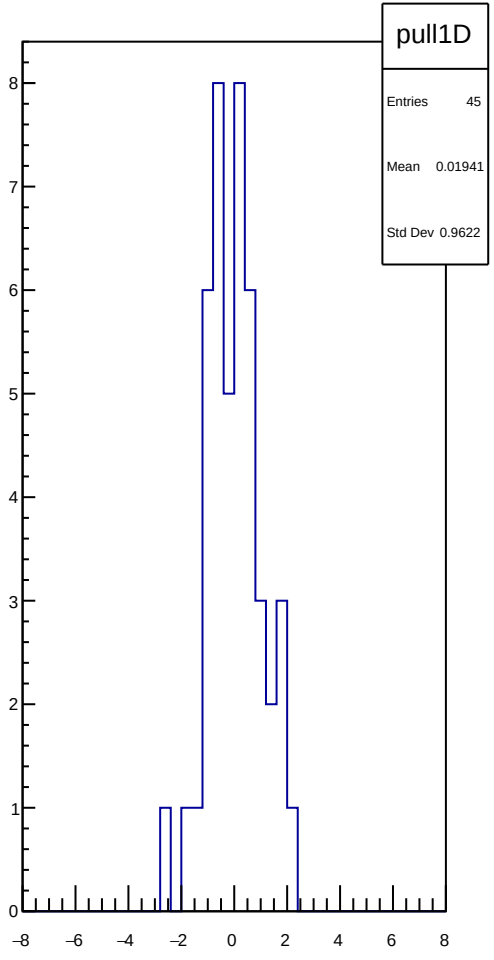

diff_cav4dX_rms vs run
χ^2 / ndf 1.802e+05 / 44
p0 8.438 ± 0.009804
60000
50000
40000
30000
20000
10000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

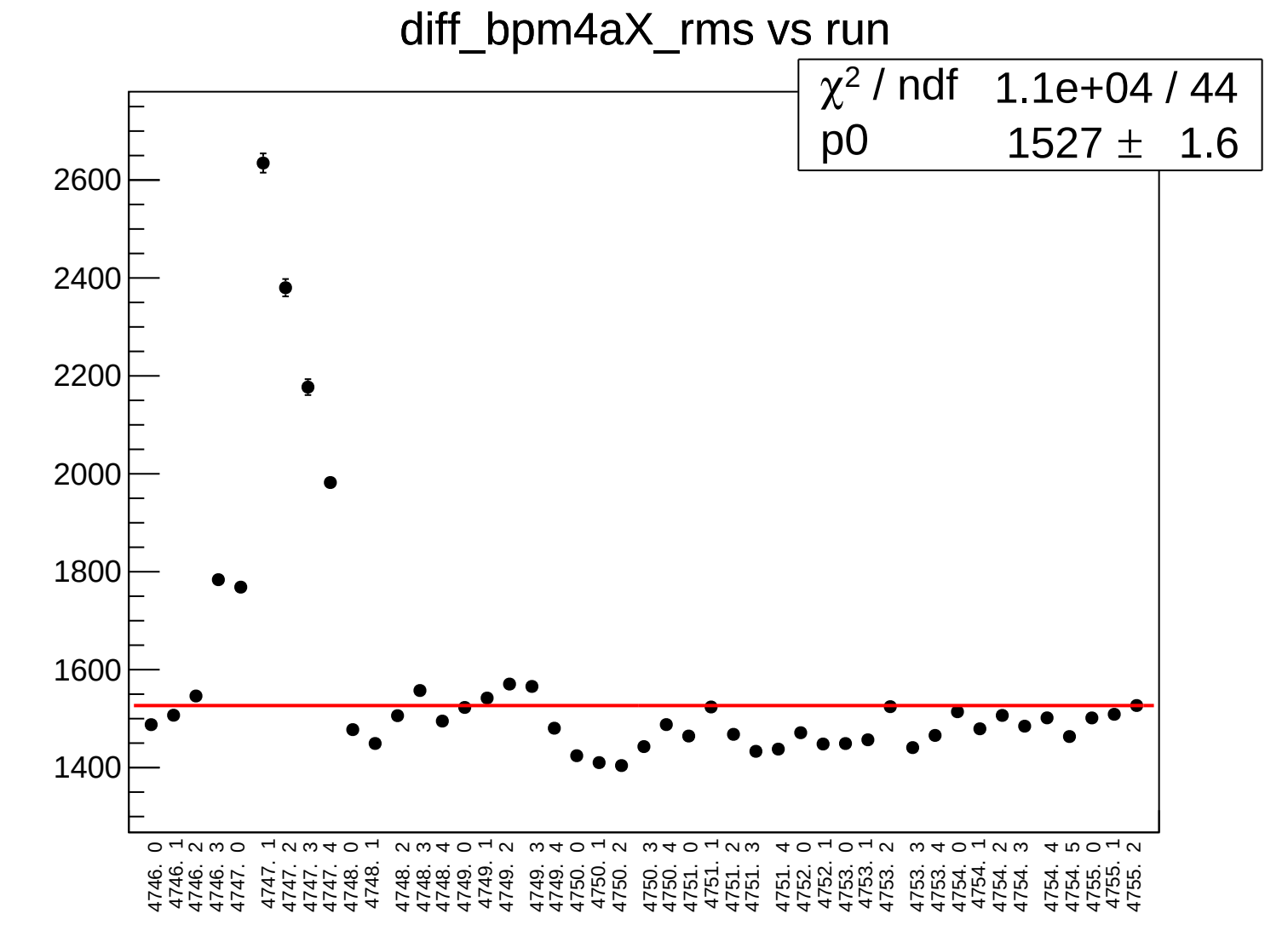

diff_cav4dY_mean vs run
χ² / ndf 44.99 / 44
p0 0.03347 ± 0.2944
pull
Entries 45
Mean 23.31
Std Dev 21.46

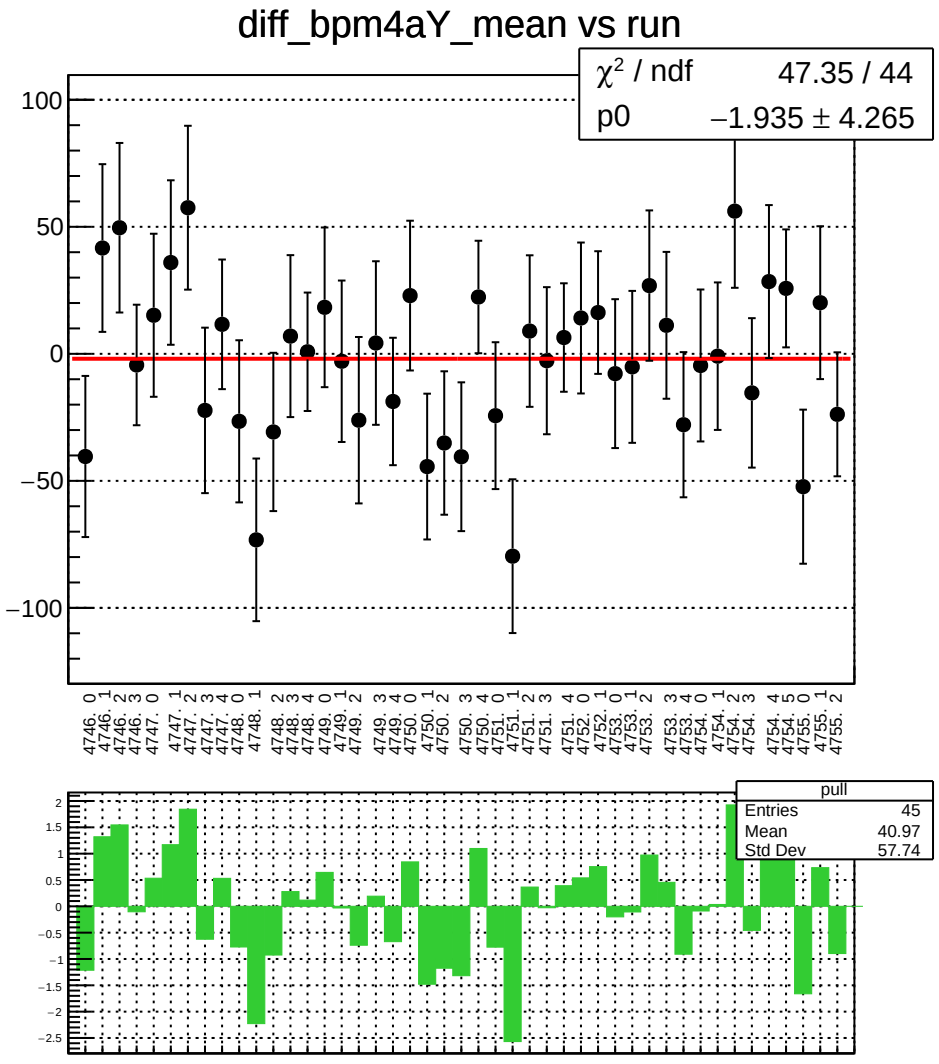

pull1D
Entries 45
Mean −0.08653
Std Dev 0.9961

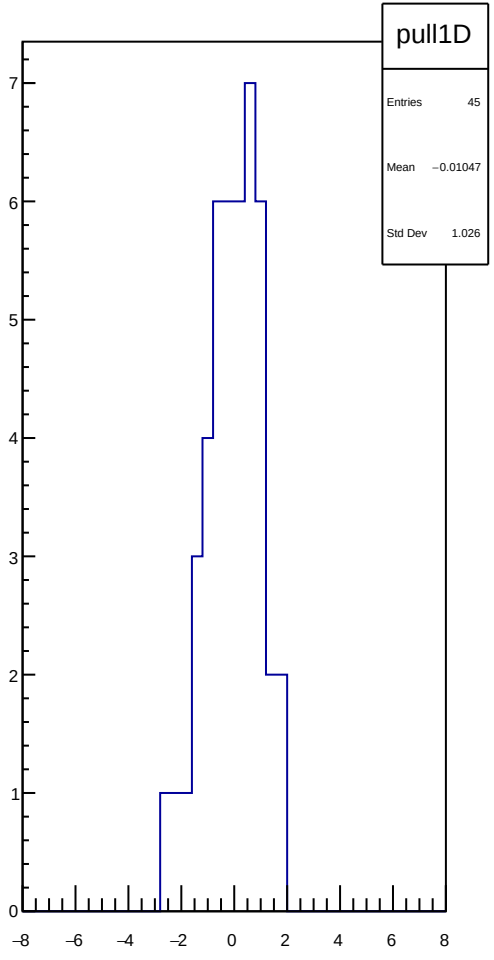

diff_cav4dY_rms vs run
χ² / ndf 7.177e+05 / 44
p0 93.88 ± 0.2082
16000
14000
12000
10000
8000
6000
4000
2000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

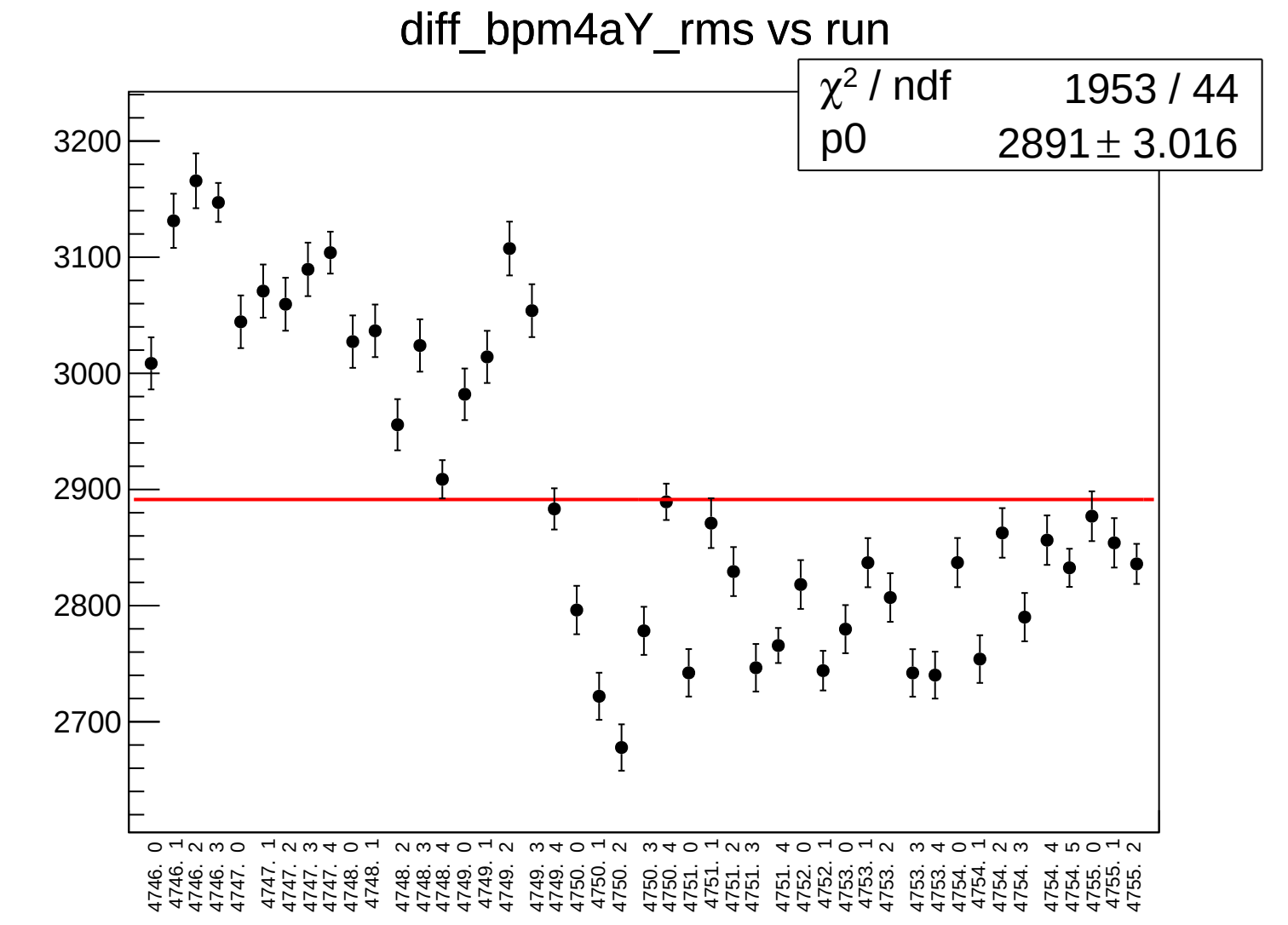

diff_bpm4aX_mean vs run
χ² / ndf 41.68 / 44
p0 −0.2526 ± 2.263
pull
Entries 45
Mean 3.327
Std Dev 15.11

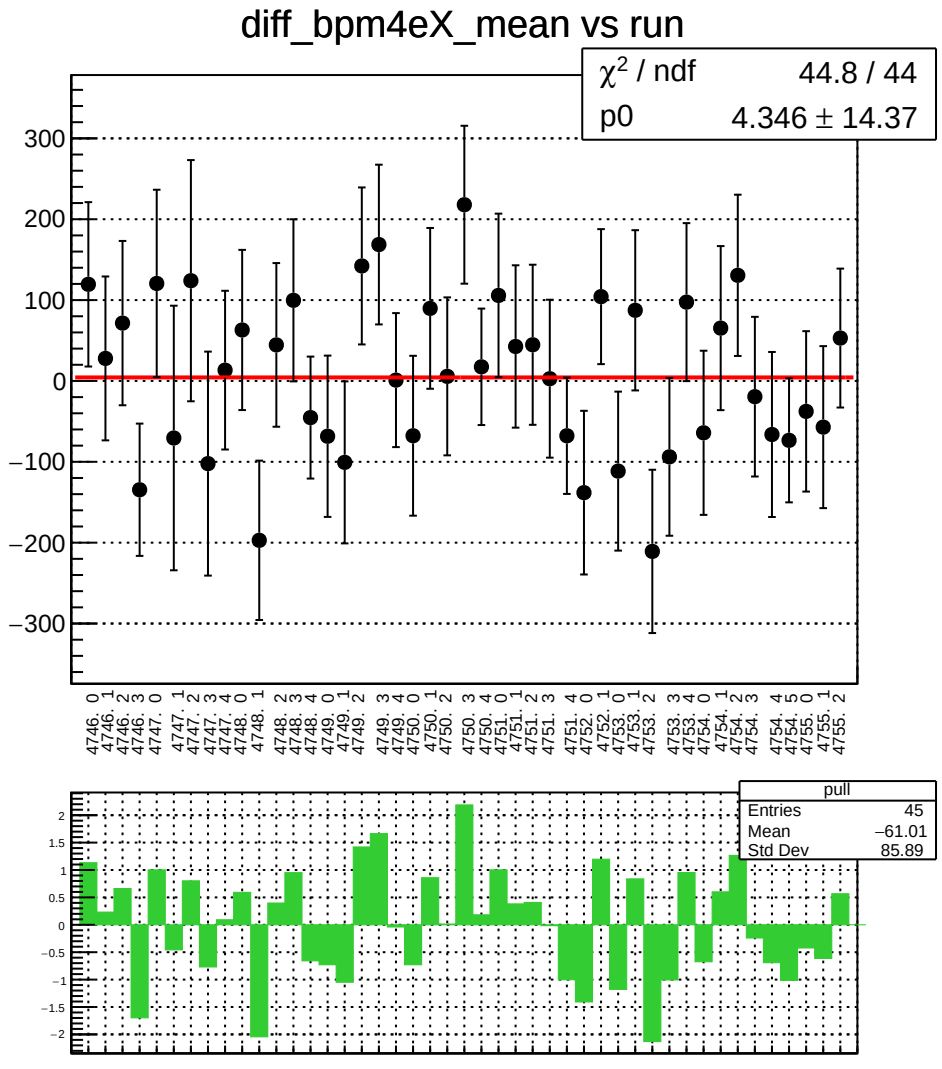

pull1D
Entries 45
Mean 0.01941
Std Dev 0.9622

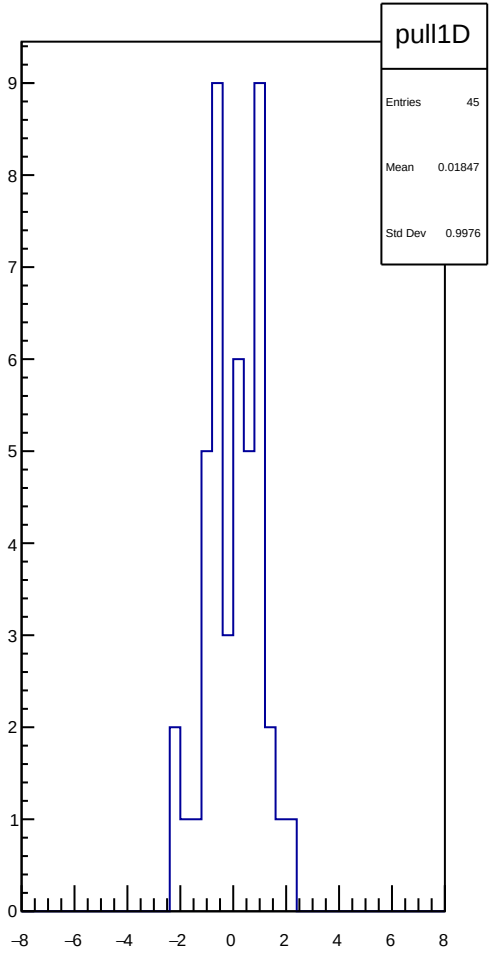

diff_bpm4aX_rms vs run
χ² / ndf 1.1e+04 / 44
p0 1527 ± 1.6
2600
2400
2200
2000
1800
1600
1400
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

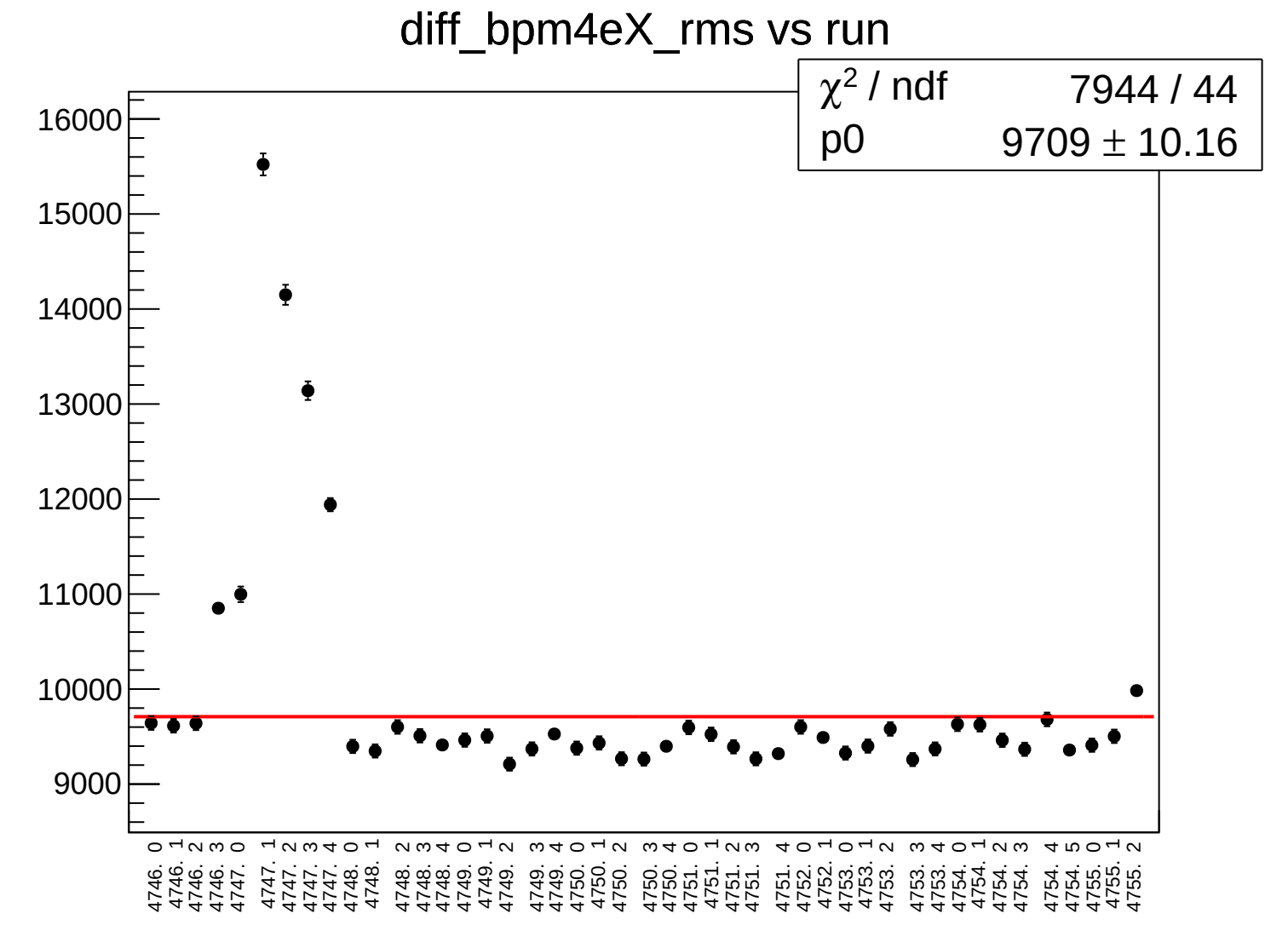

diff_bpm4aY_mean vs run
χ² / ndf 47.35 / 44
p0 −1.935 ± 4.265
pull
Entries 45
Mean 40.97
Std Dev 57.74

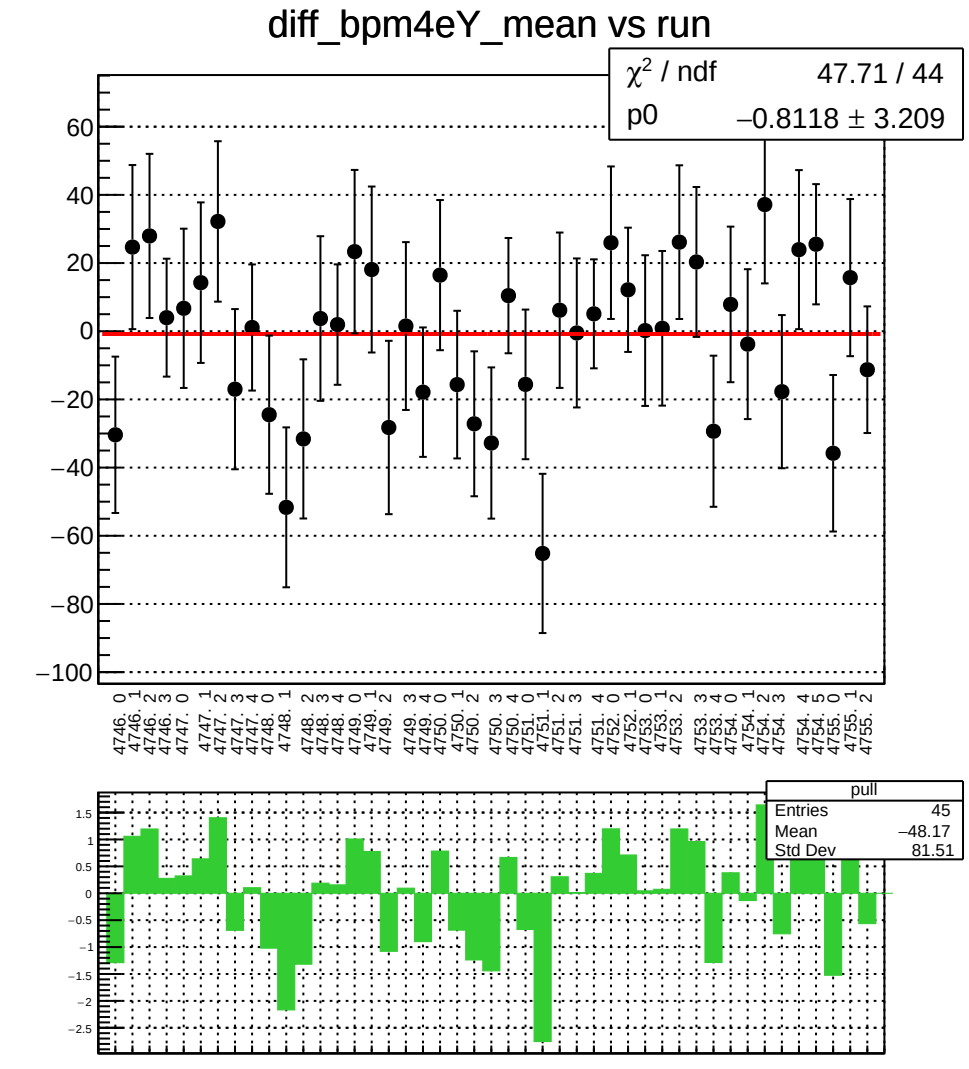

pull1D
Entries 45
Mean −0.01047
Std Dev 1.026

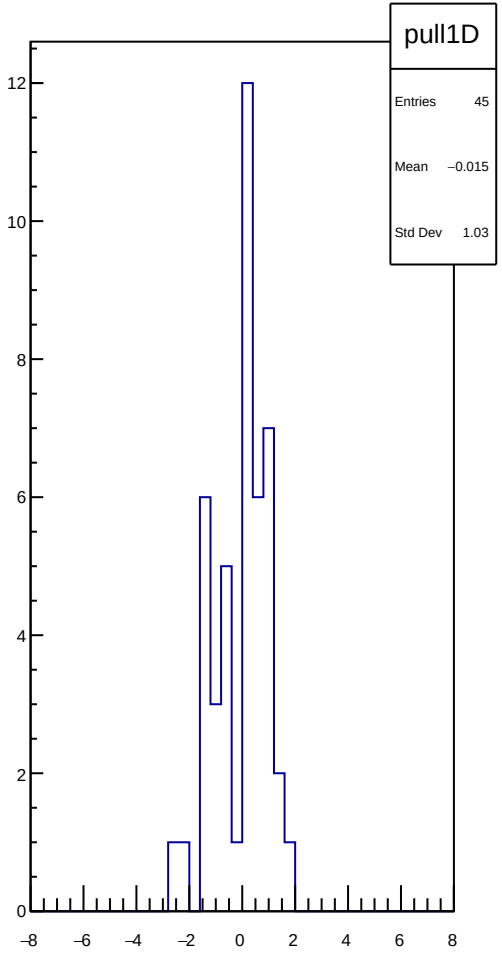

diff_bpm4aY_rms vs run
χ² / ndf 1953 / 44
p0 2891 ± 3.016
3200
3100
3000
2900
2800
2700
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

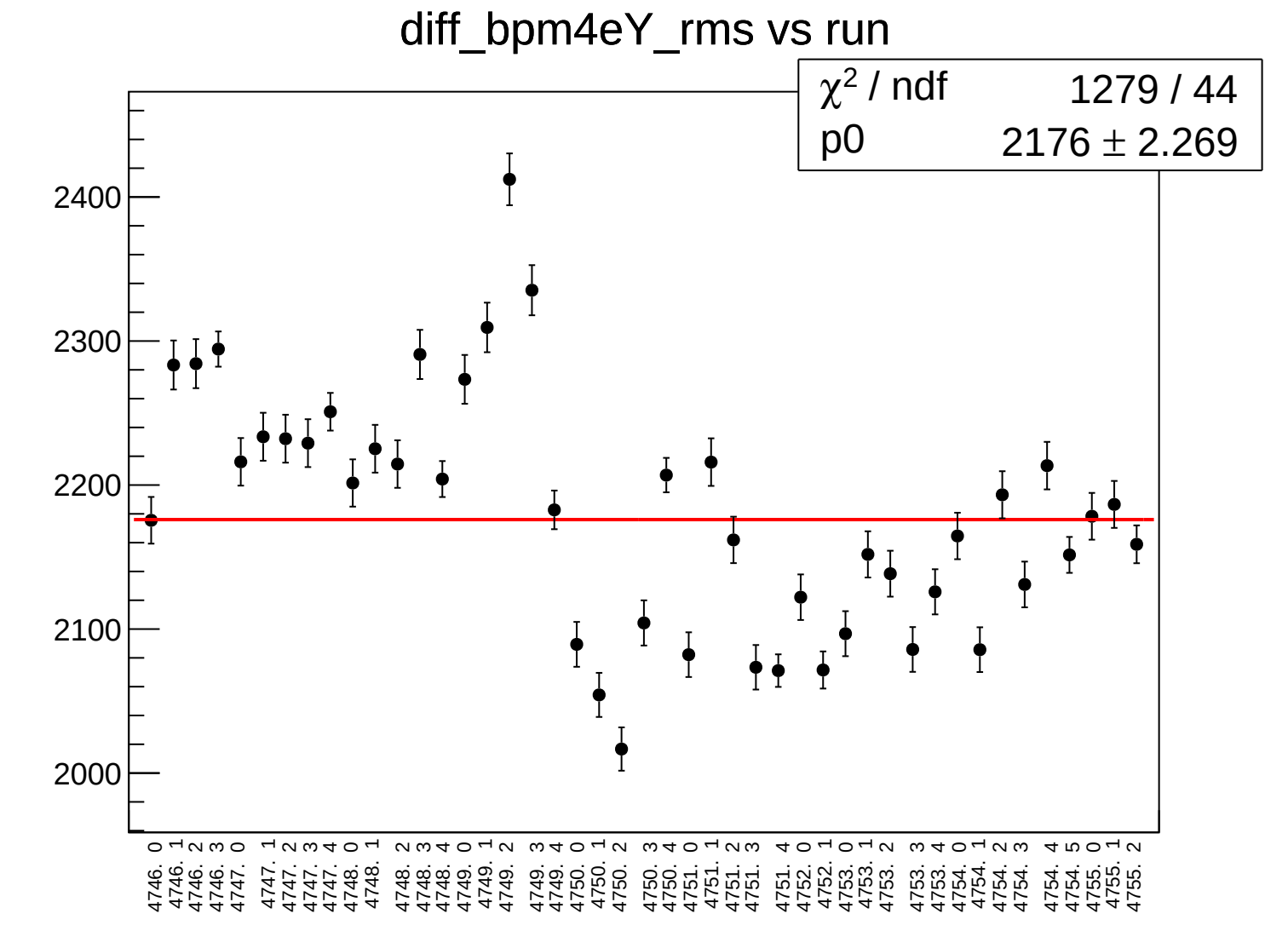

diff_bpm4eX_mean vs run
χ^2 / ndf 44.8 / 44
p0 4.346 ± 14.37
300
200
100
0
−100
−200
−300
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −61.01
Std Dev 85.89
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

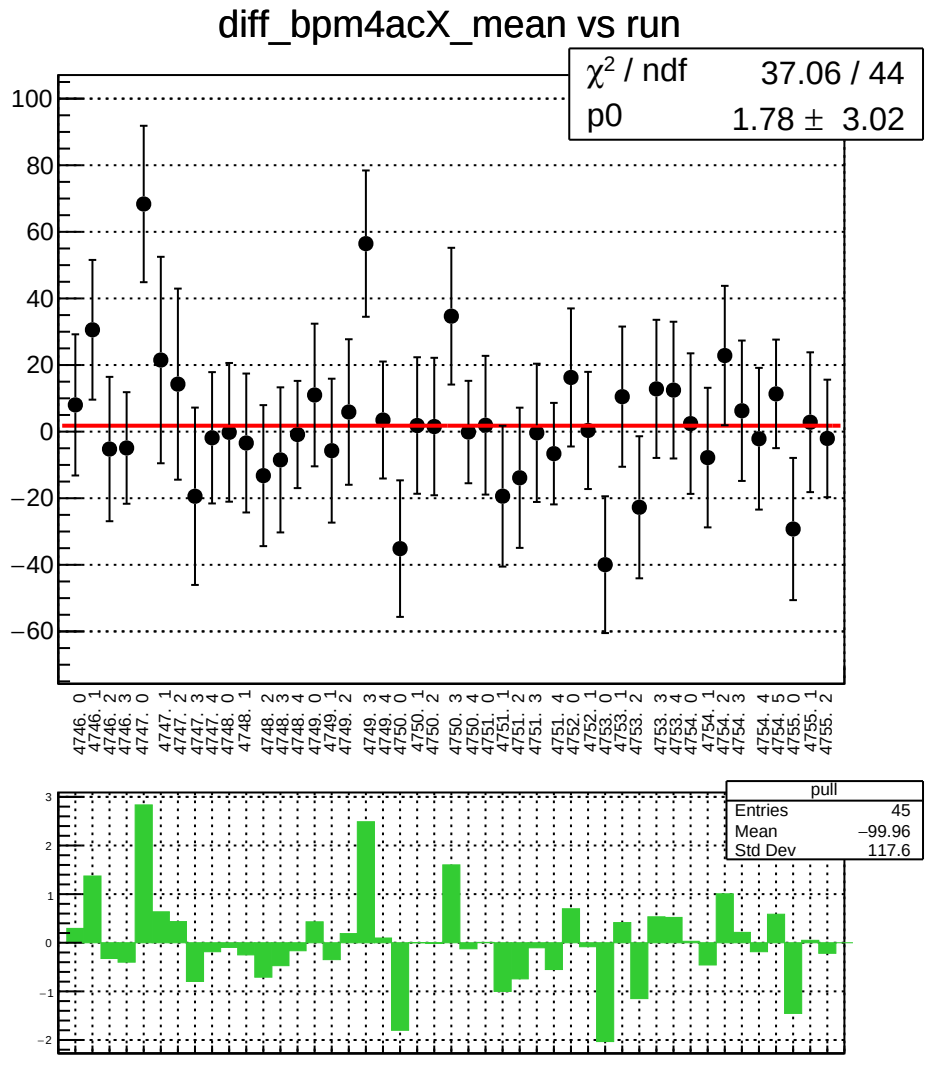

pull1D
Entries 45
Mean 0.01847
Std Dev 0.9976
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

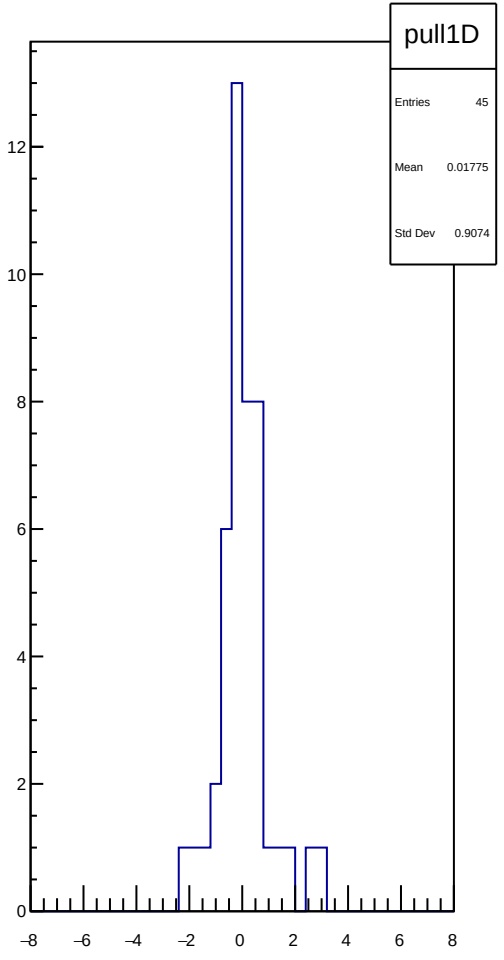

diff_bpm4eX_rms vs run
χ² / ndf 7944 / 44
p0 9709 ± 10.16
16000
15000
14000
13000
12000
11000
10000
9000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

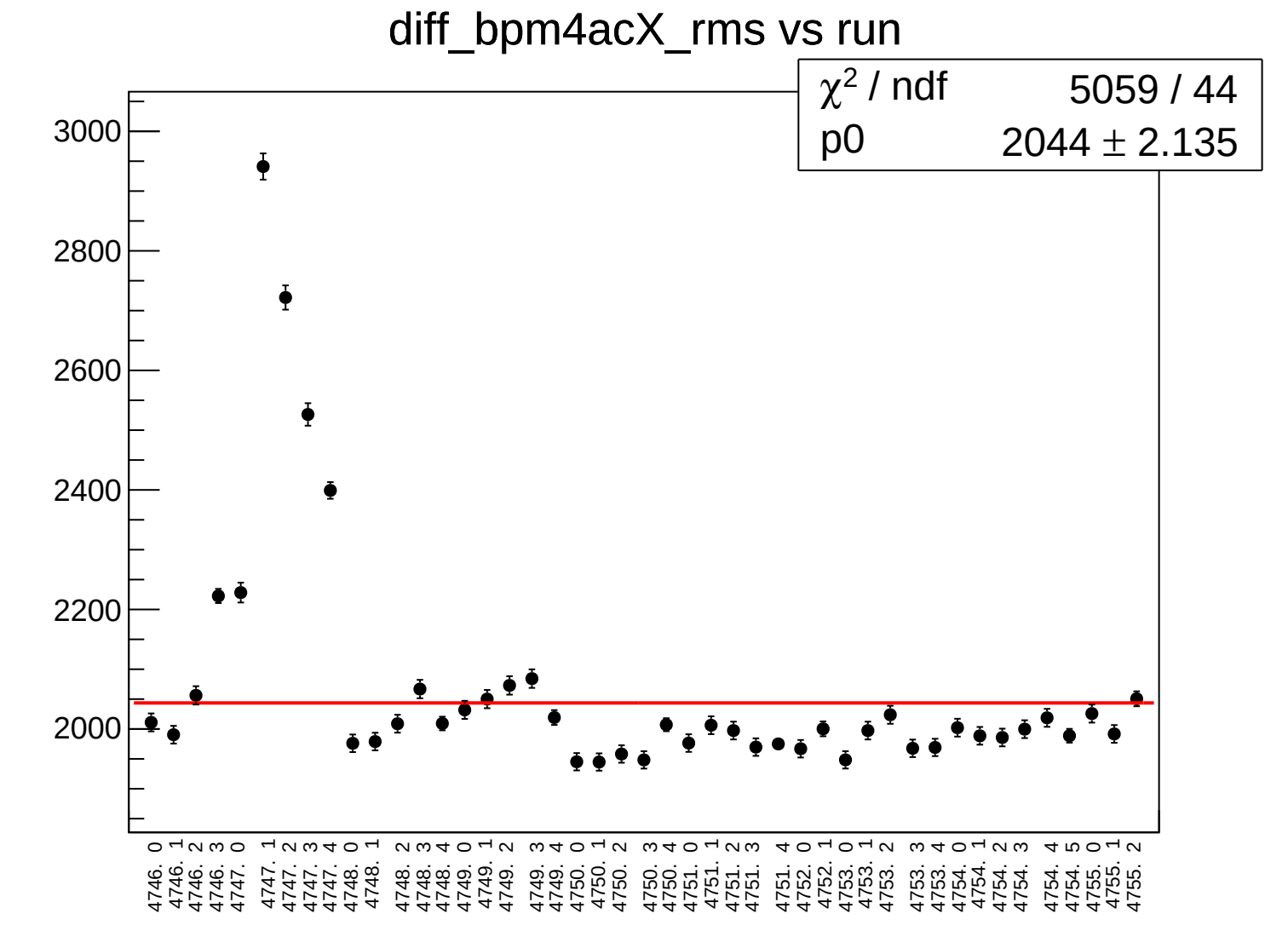

diff_bpm4eY_mean vs run
χ² / ndf 47.71 / 44
p0 −0.8118 ± 3.209
pull
Entries 45
Mean −48.17
Std Dev 81.51

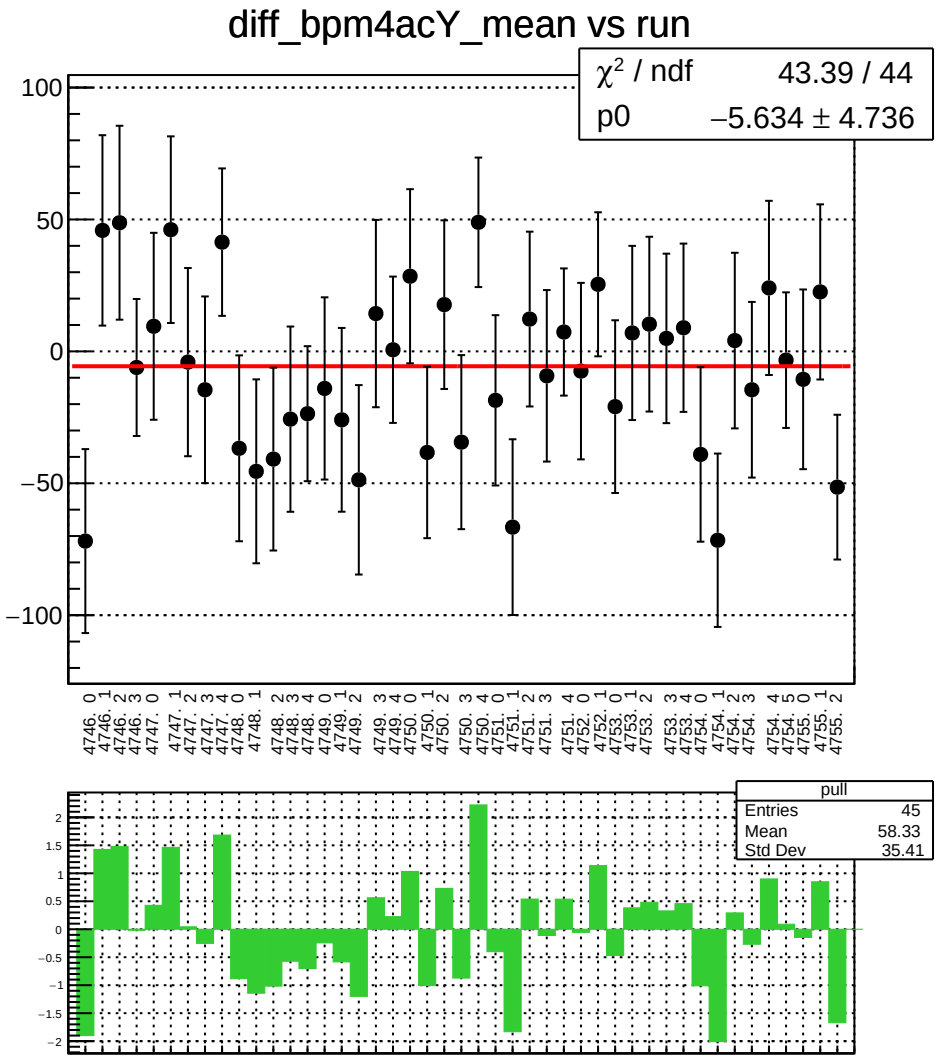

pull1D
Entries 45
Mean −0.015
Std Dev 1.03

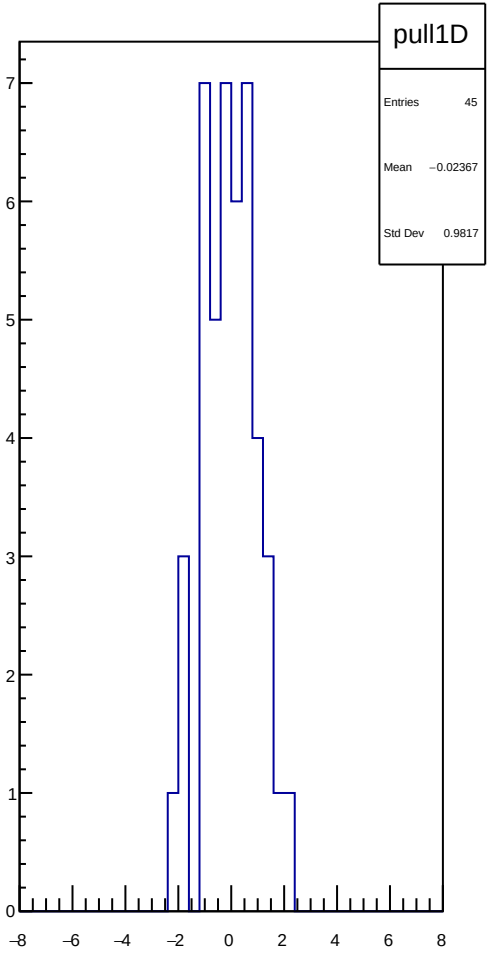

diff_bpm4eY_rms vs run
χ² / ndf 1279 / 44
p0 2176 ± 2.269
2400
2300
2200
2100
2000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

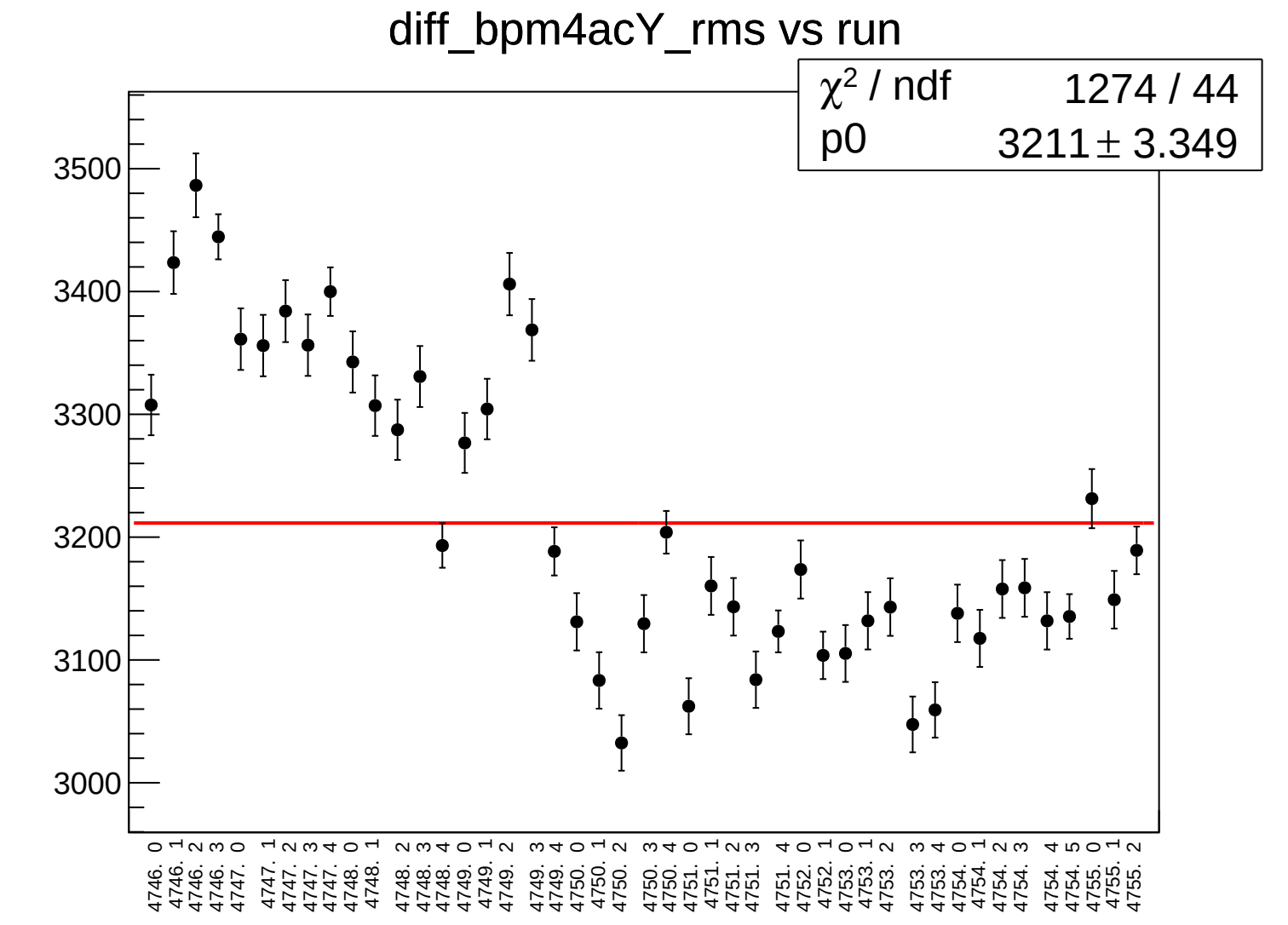

diff_bpm4acX_mean vs run
χ² / ndf 37.06 / 44
p0 1.78 ± 3.02
pull
Entries 45
Mean −99.96
Std Dev 117.6

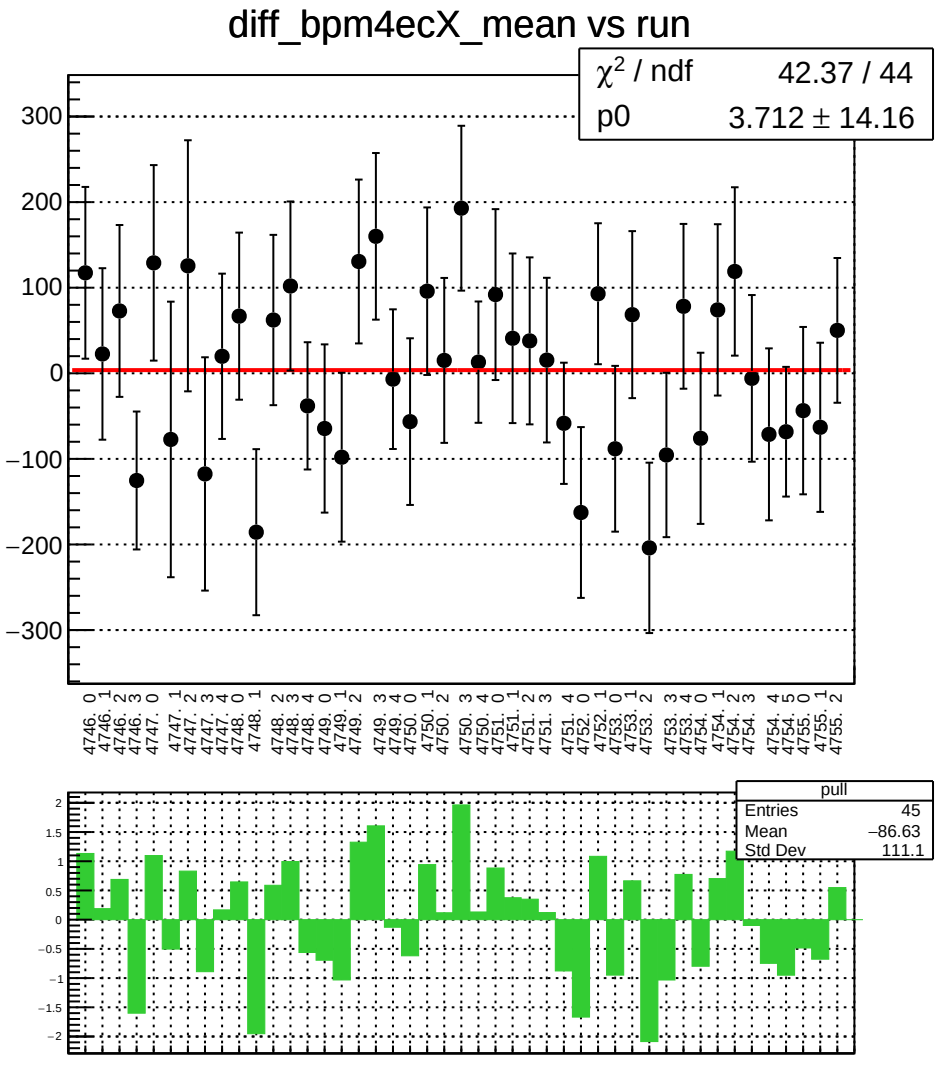

pull1D
Entries 45
Mean 0.01775
Std Dev 0.9074

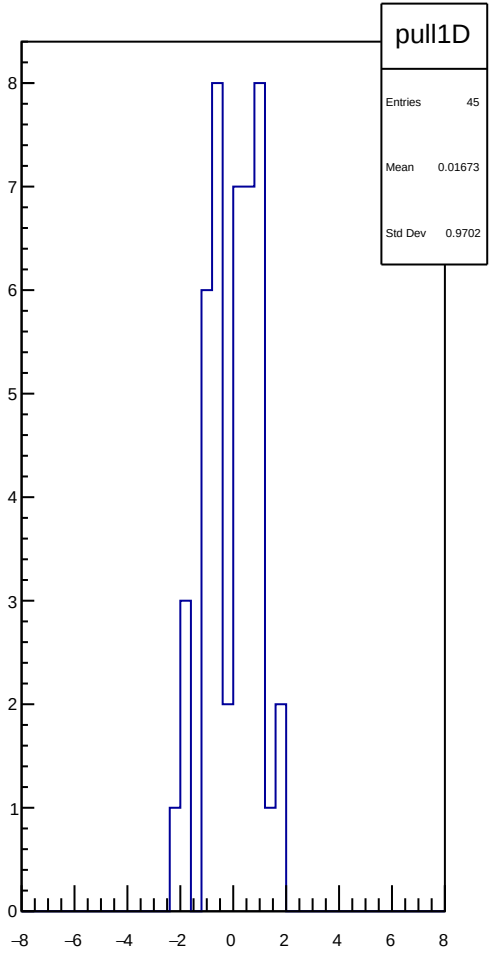

diff_bpm4acX_rms vs run
χ² / ndf 5059 / 44
p0 2044 ± 2.135
3000
2800
2600
2400
2200
2000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

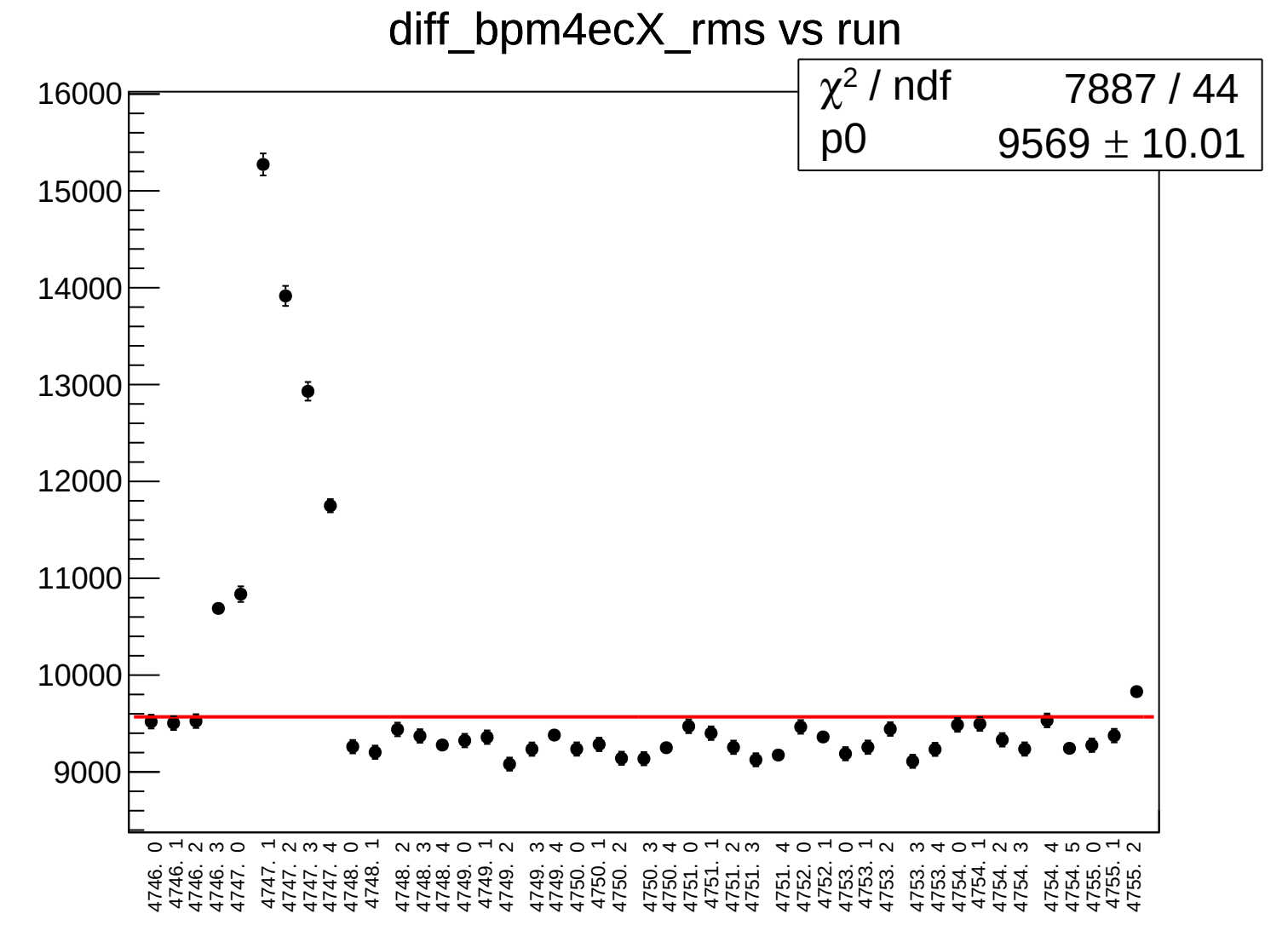

diff_bpm4acY_mean vs run
χ² / ndf 43.39 / 44
p0 −5.634 ± 4.736
100
50
0
−50
−100
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 58.33
Std Dev 35.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

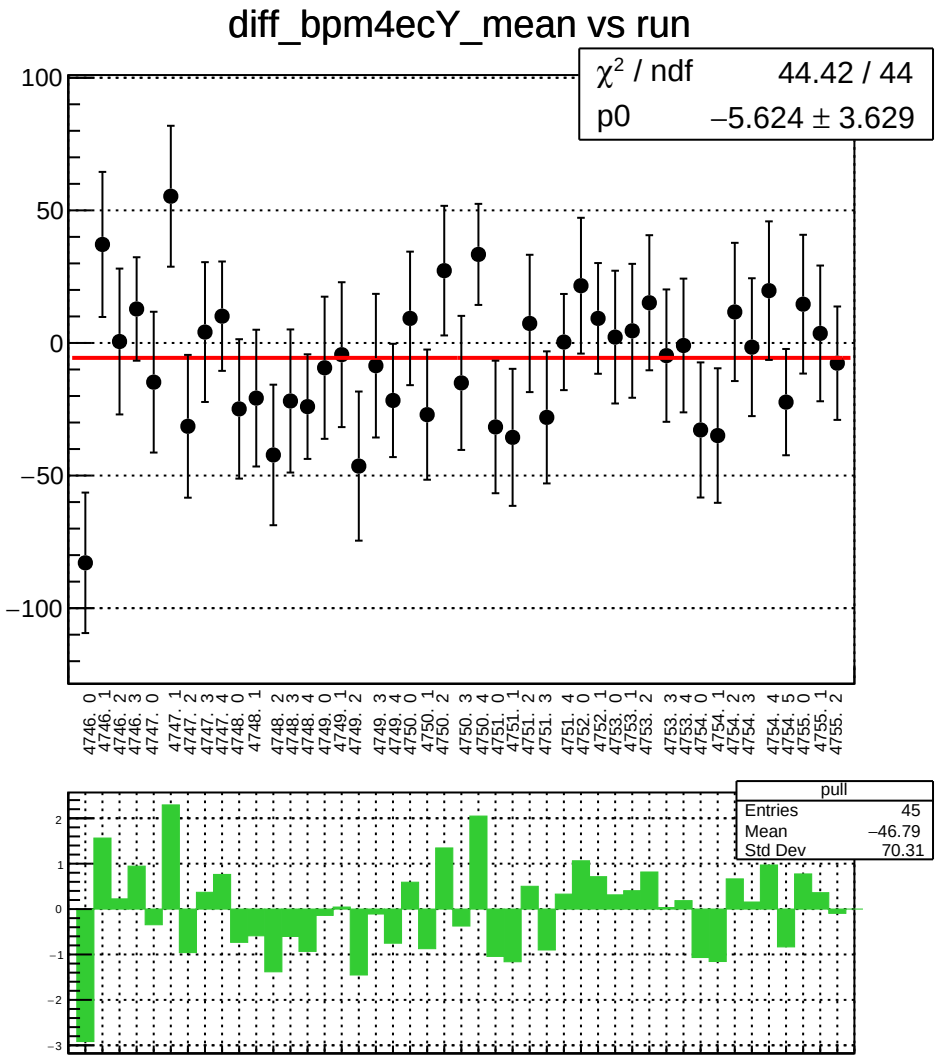

pull1D
Entries 45
Mean −0.02367
Std Dev 0.9817
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

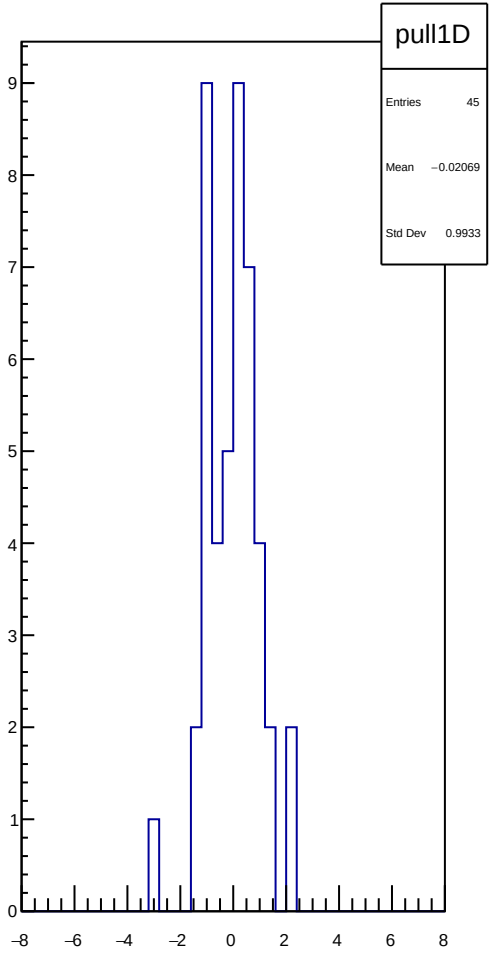

diff_bpm4acY_rms vs run
χ² / ndf 1274 / 44
p0 3211 ± 3.349
3500
3400
3300
3200
3100
3000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

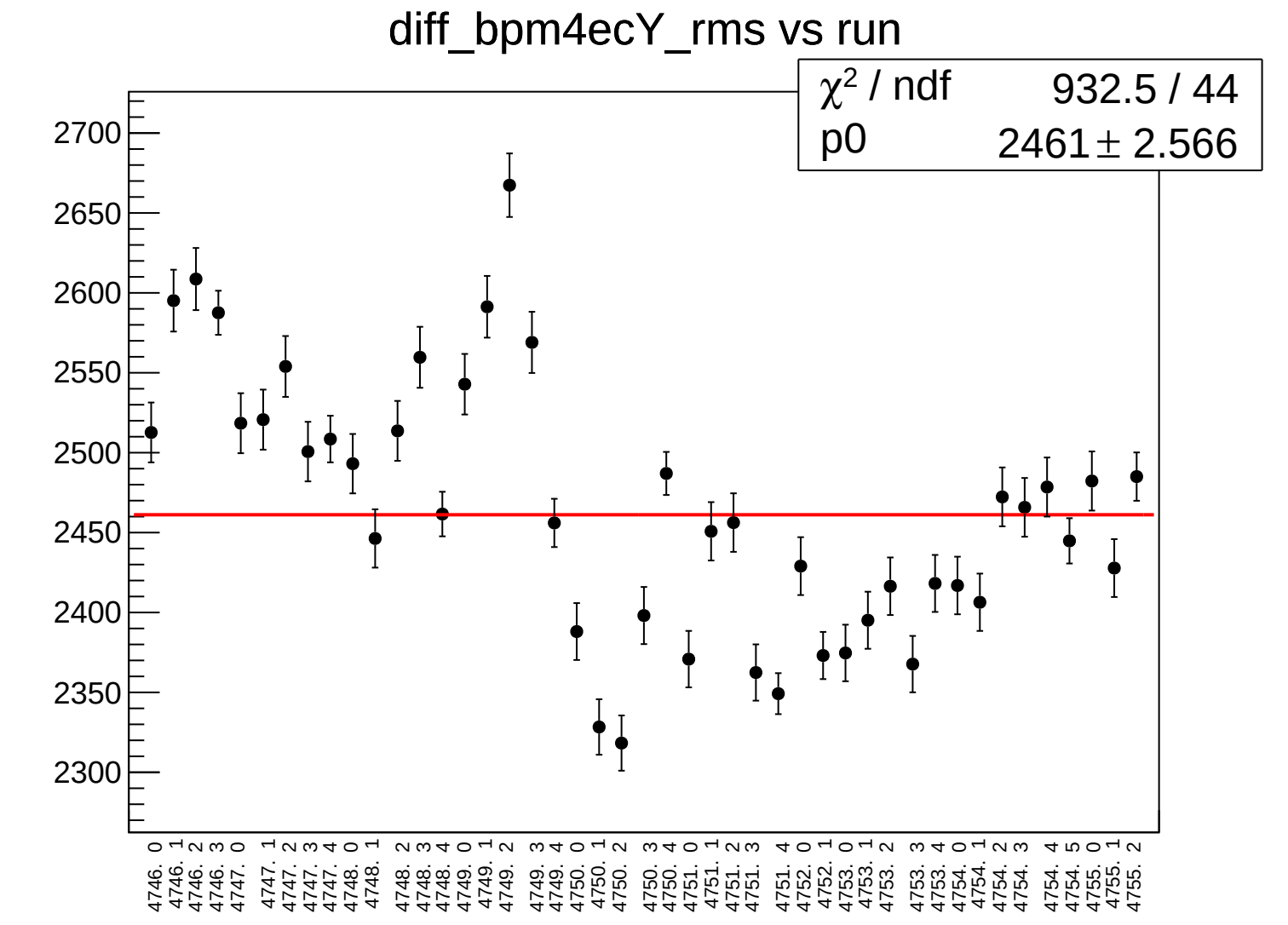

diff_bpm4ecX_mean vs run
χ^2 / ndf 42.37 / 44
p0 3.712 ± 14.16
300
200
100
0
−100
−200
−300
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −86.63
Std Dev 111.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

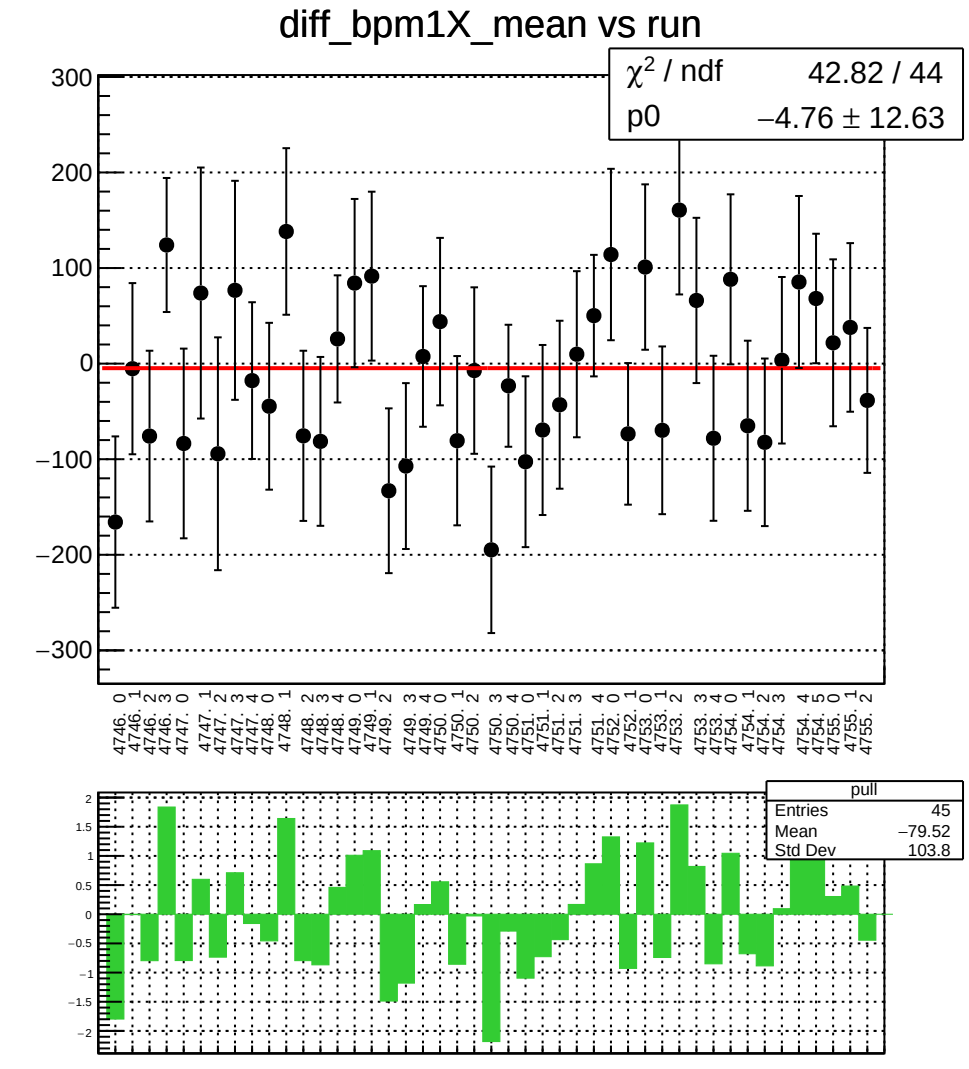

pull1D
Entries 45
Mean 0.01673
Std Dev 0.9702
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

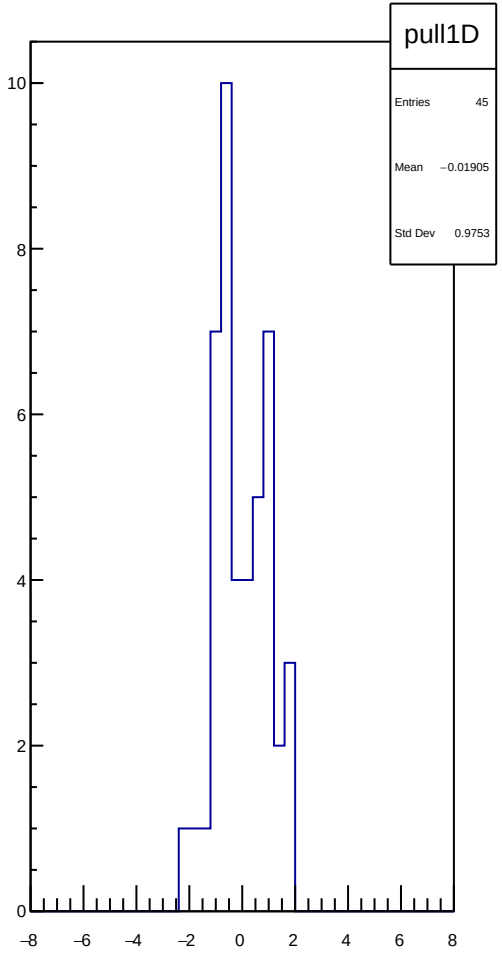

diff_bpm4ecX_rms vs run
χ² / ndf 7887 / 44
p0 9569 ± 10.01
16000
15000
14000
13000
12000
11000
10000
9000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

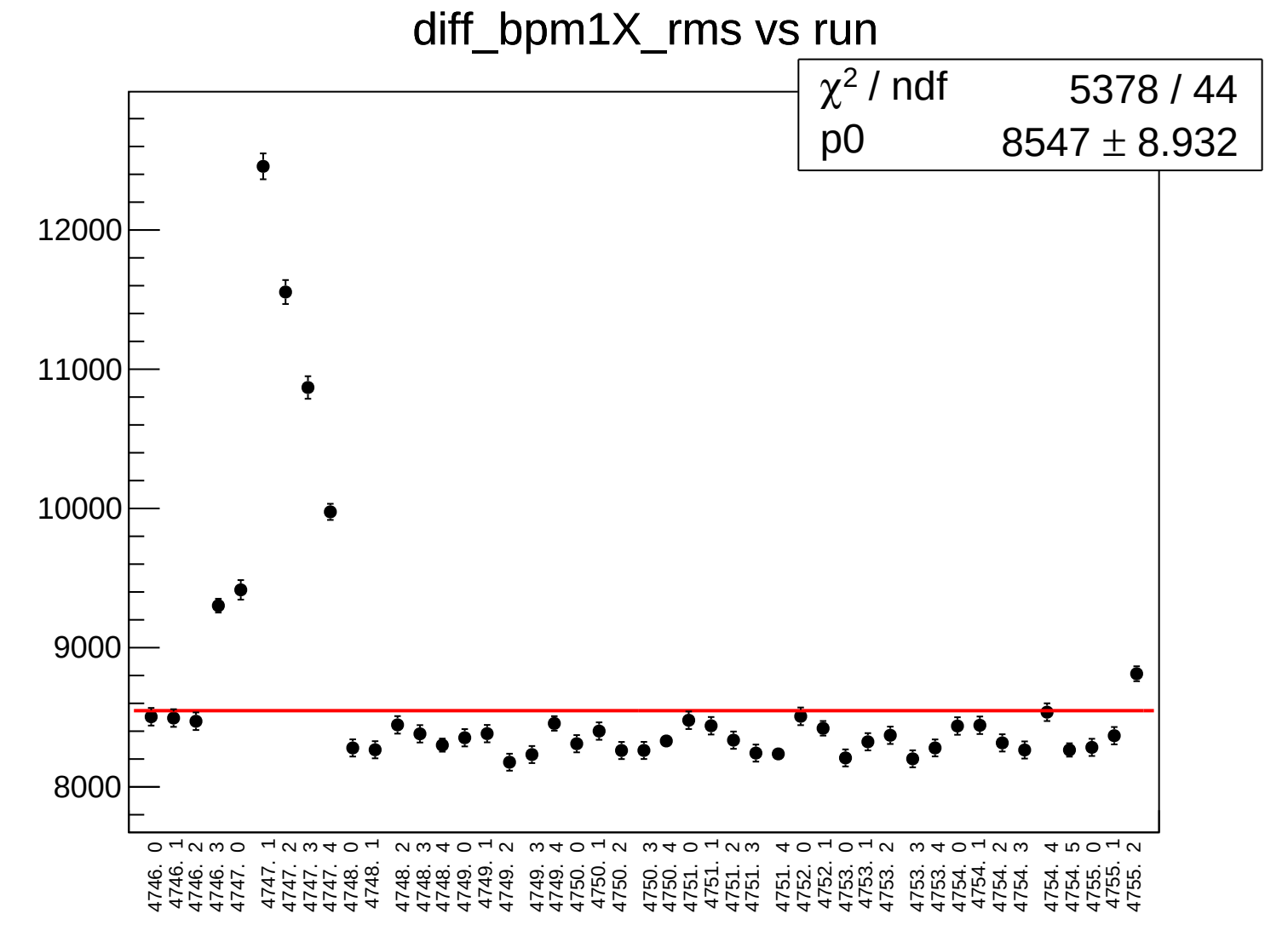

diff_bpm4ecY_mean vs run
χ² / ndf 44.42 / 44
p0 −5.624 ± 3.629
100
50
0
−50
−100
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −46.79
Std Dev 70.31
2
1
0
−1
−2
−3

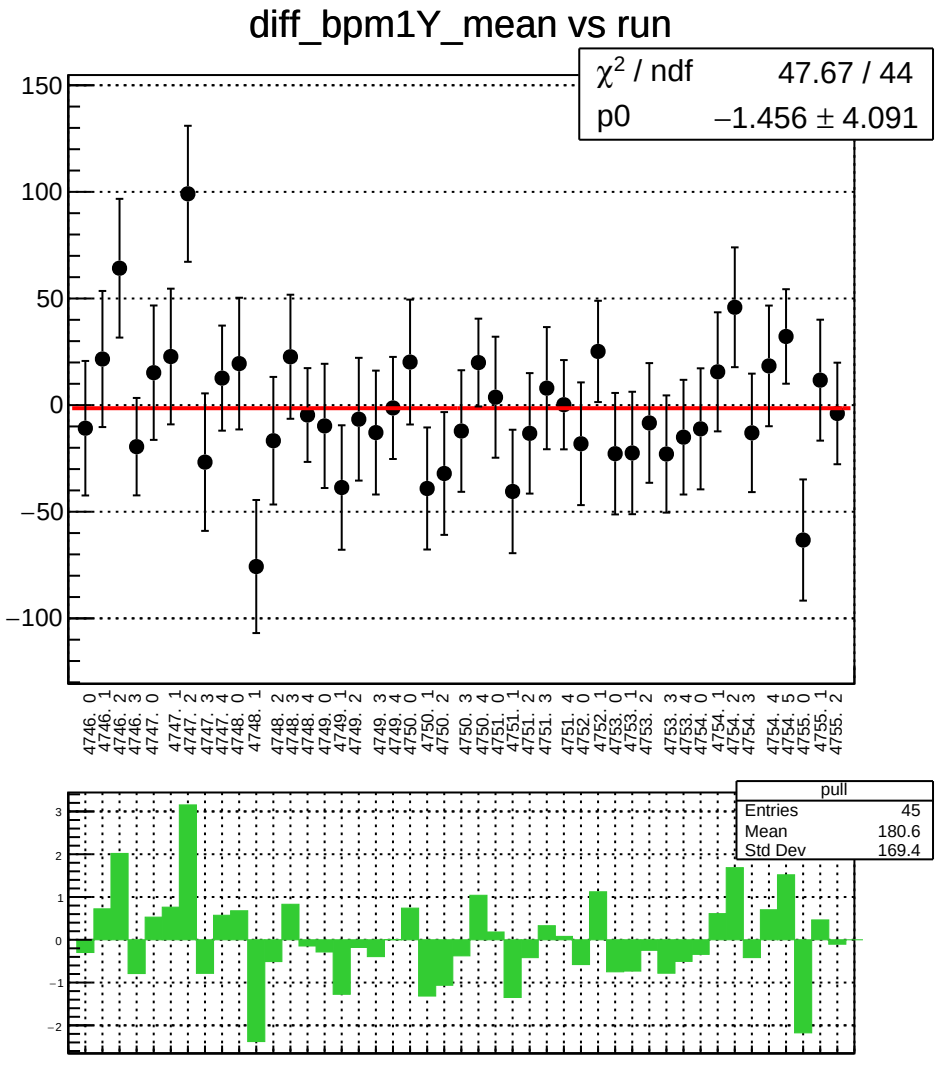

pull1D
Entries 45
Mean −0.02069
Std Dev 0.9933
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

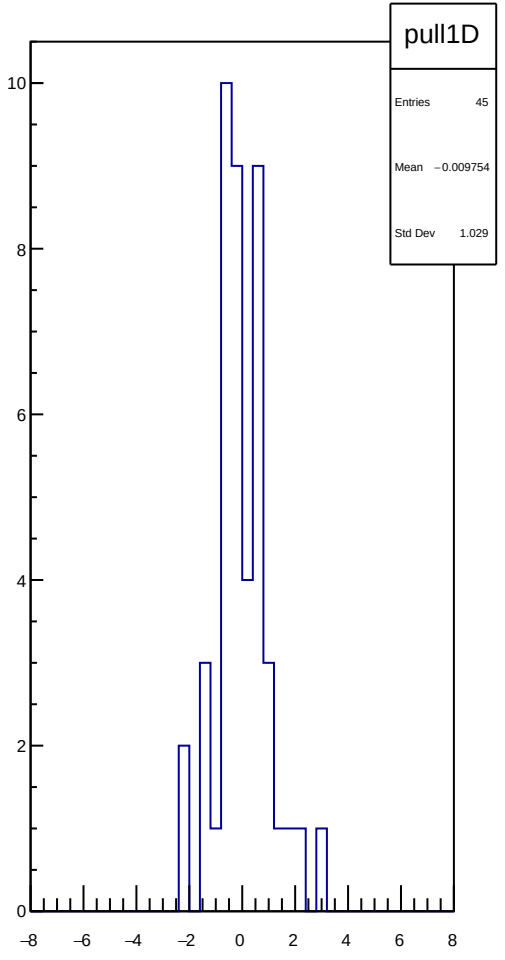

diff_bpm4ecY_rms vs run
χ² / ndf 932.5 / 44
p0 2461 ± 2.566
2700
2650
2600
2550
2500
2450
2400
2350
2300
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

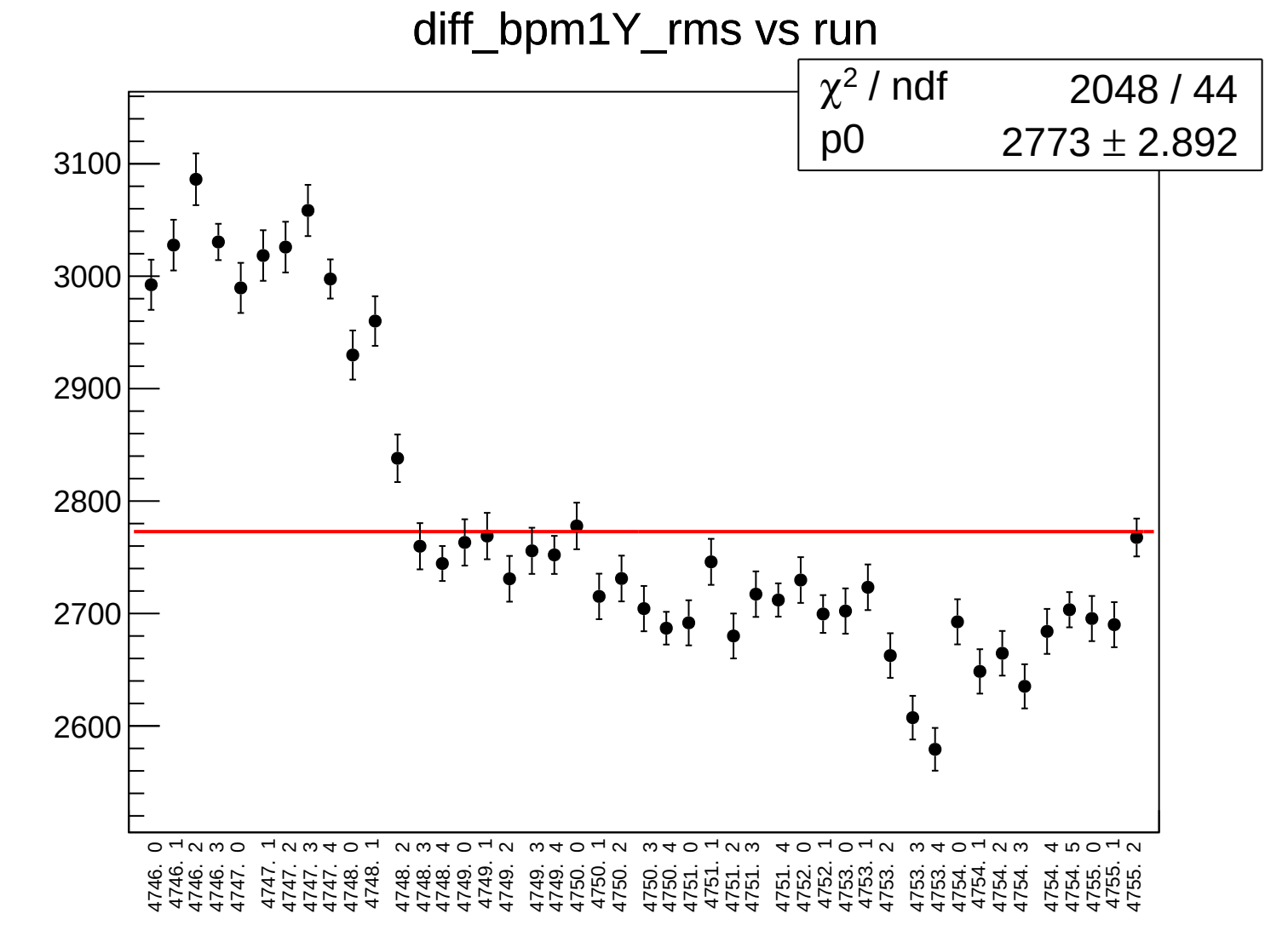

diff_bpm1X_mean vs run
χ^2 / ndf 42.82 / 44
p0 −4.76 ± 12.63
300
200
100
0
−100
−200
−300
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −79.52
Std Dev 103.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

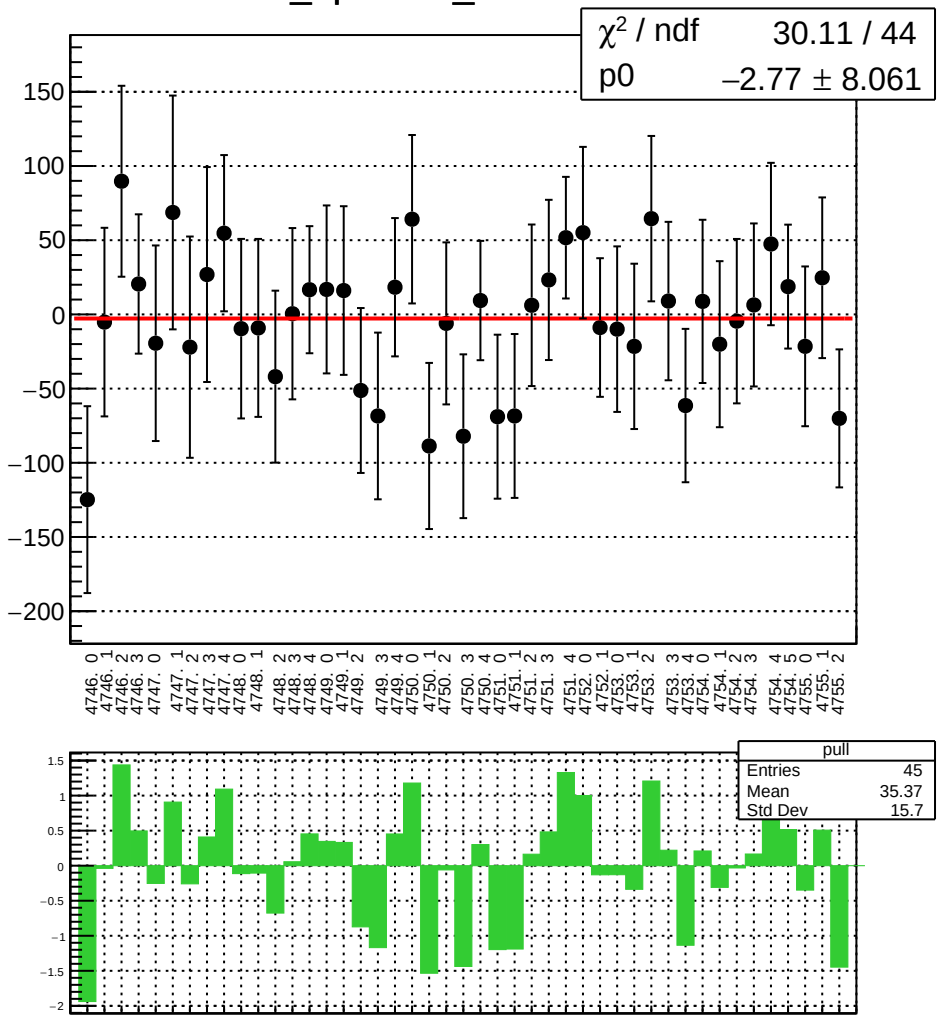

pull1D
Entries 45
Mean −0.01905
Std Dev 0.9753
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

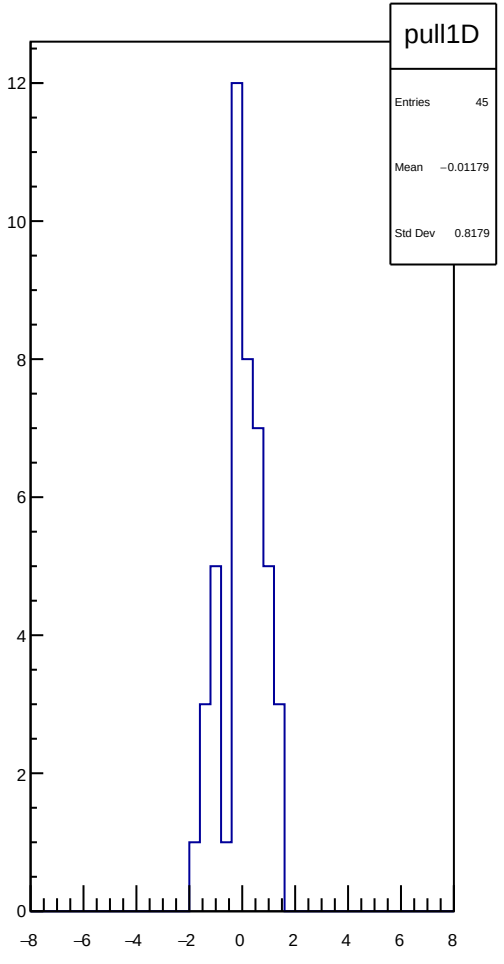

diff_bpm1X_rms vs run
χ² / ndf 5378 / 44
p0 8547 ± 8.932
12000
11000
10000
9000
8000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

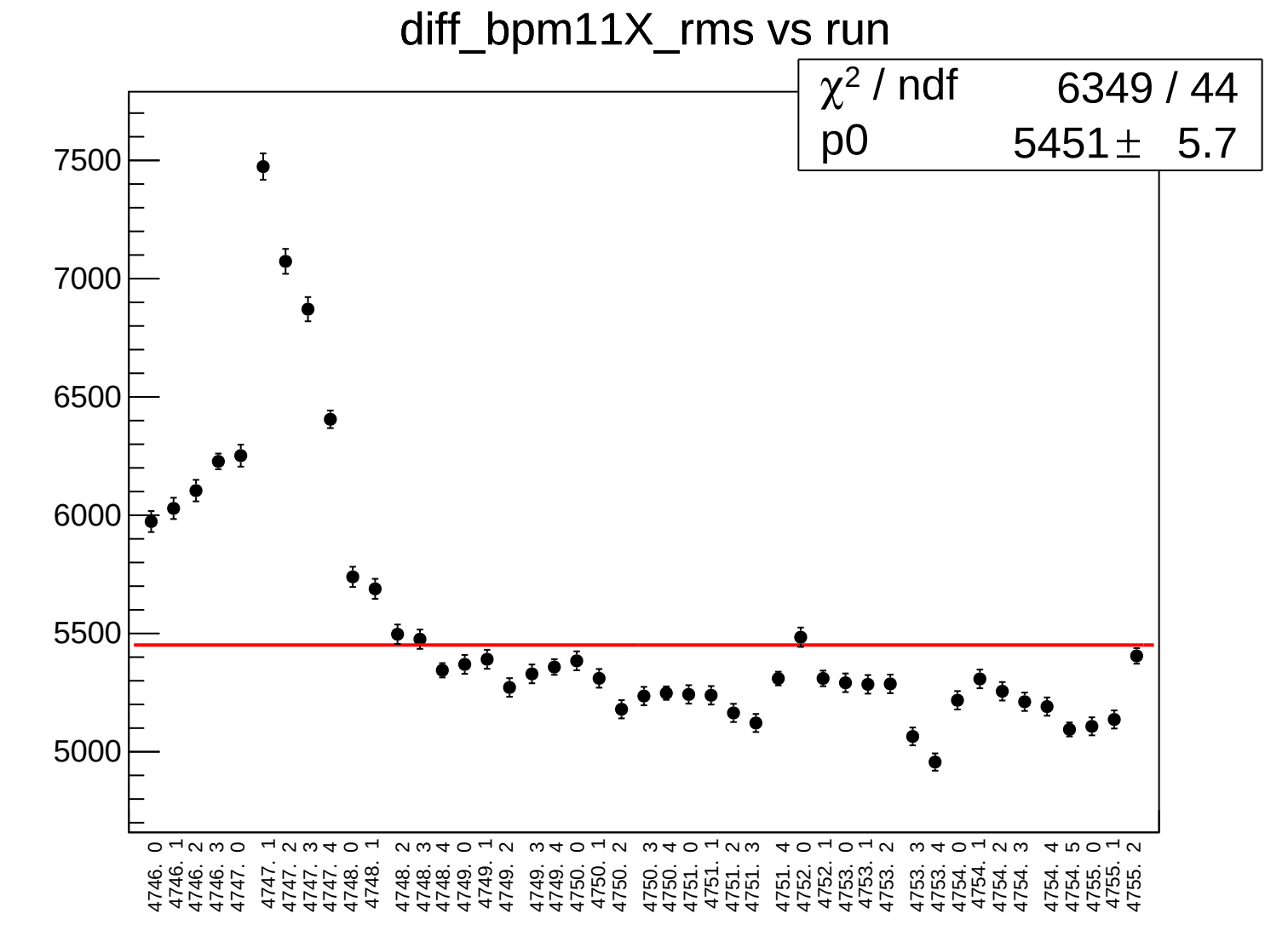

diff_bpm1Y_mean vs run
χ² / ndf 47.67 / 44
p0 −1.456 ± 4.091
150
100
50
0
−50
−100
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 180.6
Std Dev 169.4
3
2
1
0
−1
−2

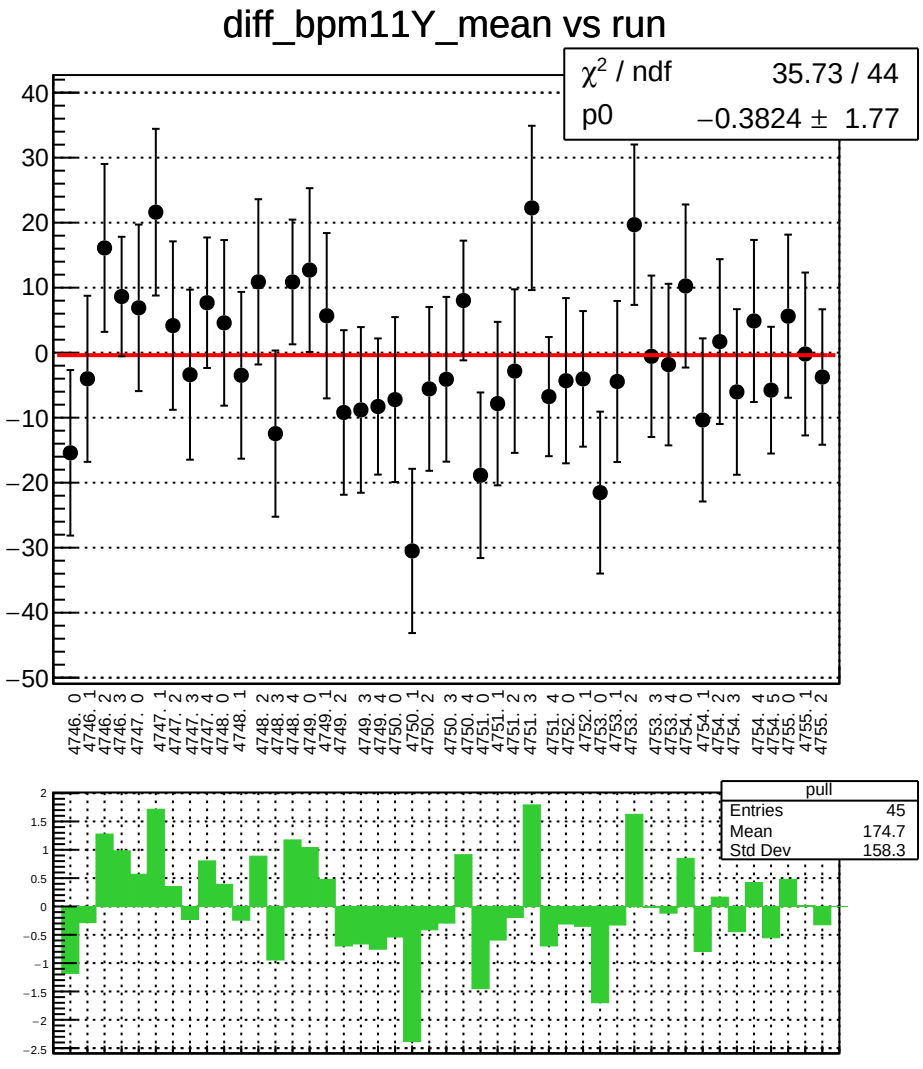

pull1D
Entries 45
Mean −0.009754
Std Dev 1.029
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

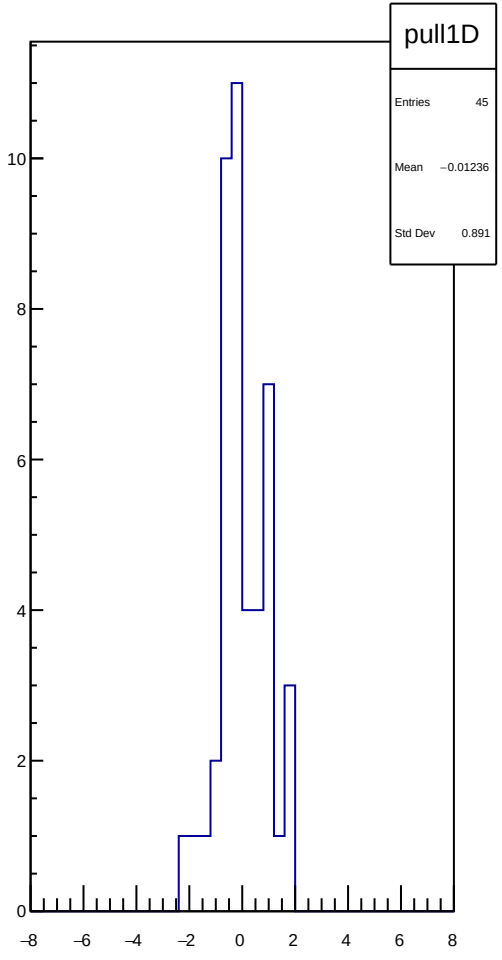

diff_bpm1Y_rms vs run
χ² / ndf 2048 / 44
p0 2773 ± 2.892
3100
3000
2900
2800
2700
2600
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

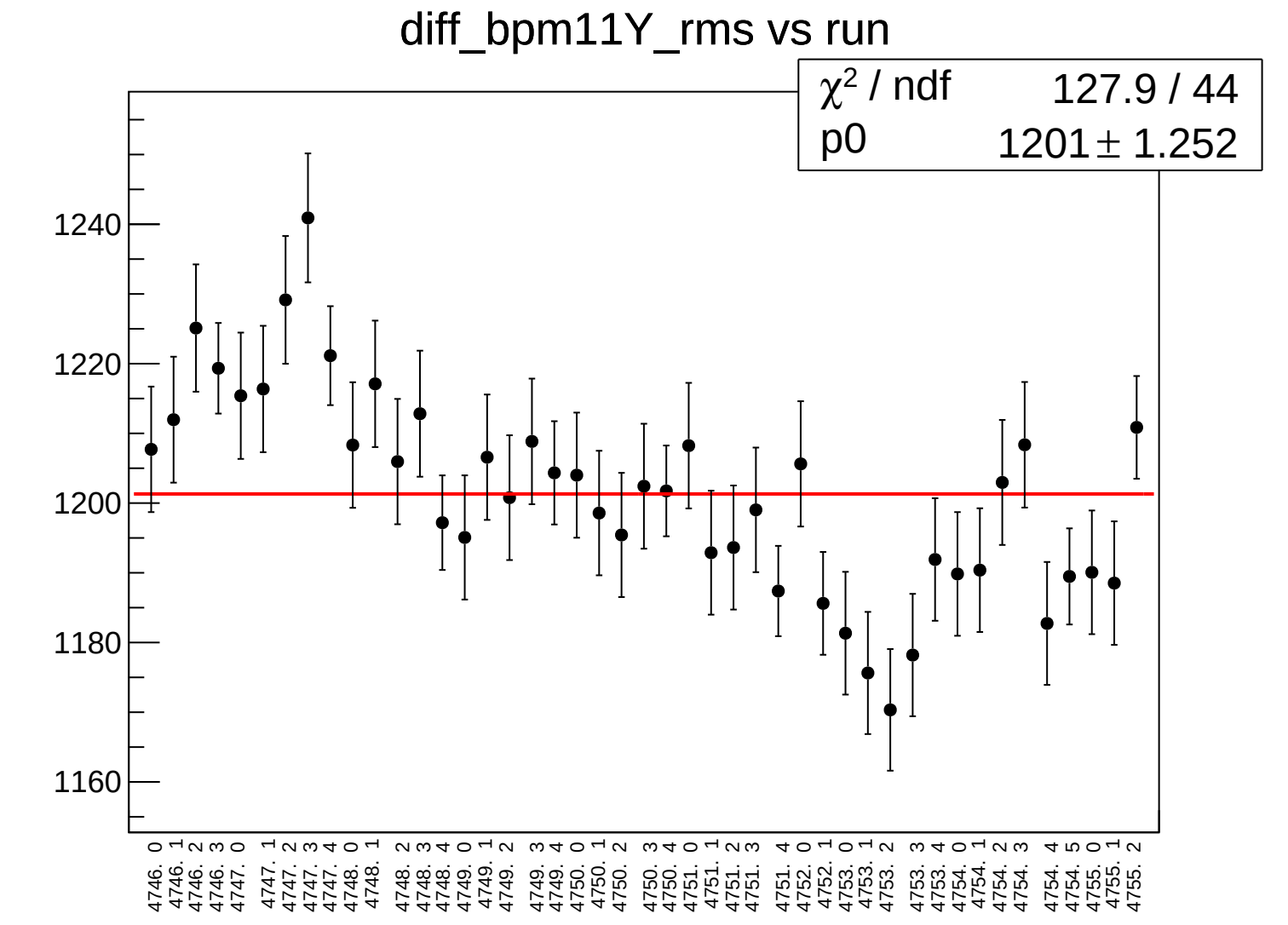

diff_bpm11X_mean vs run
χ² / ndf 30.11 / 44
p0 −2.77 ± 8.061
pull
Entries 45
Mean 35.37
Std Dev 15.7

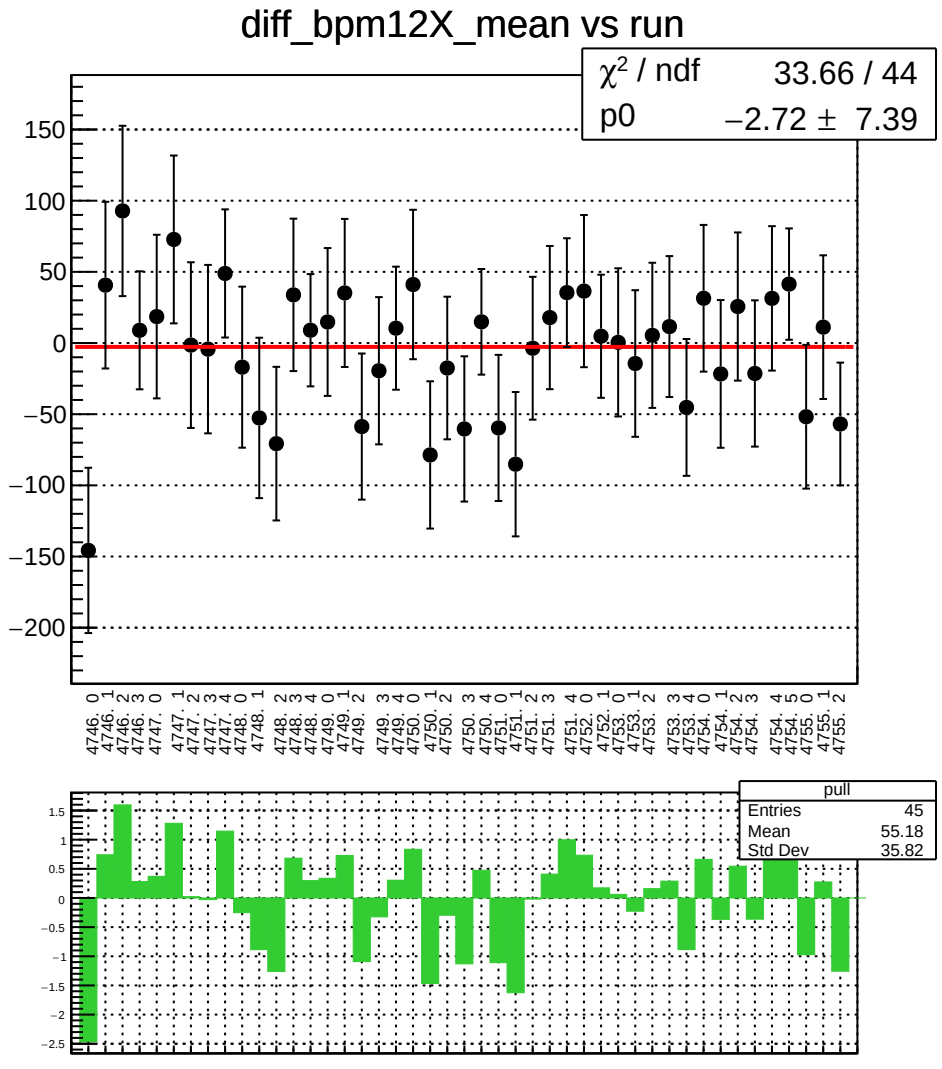

pull1D
Entries 45
Mean −0.01179
Std Dev 0.8179

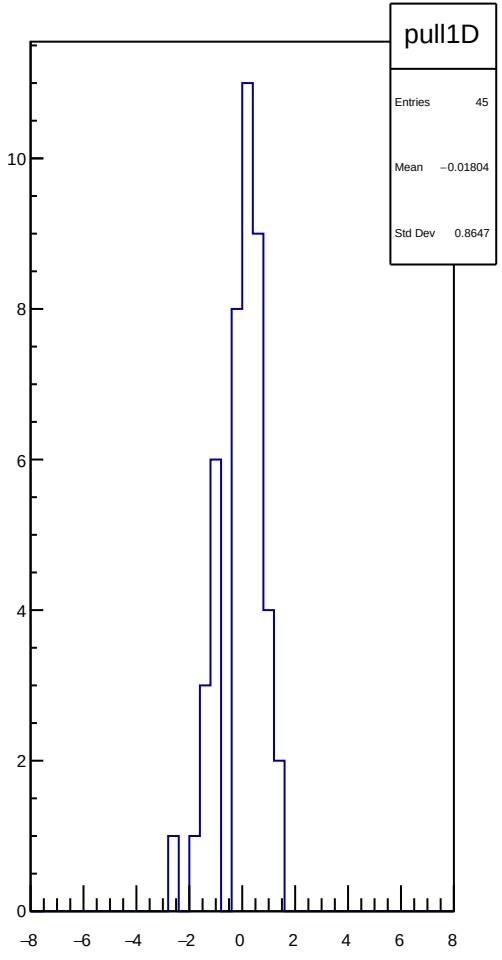

diff_bpm11X_rms vs run
χ² / ndf 6349 / 44
p0 5451 ± 5.7
7500
7000
6500
6000
5500
5000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

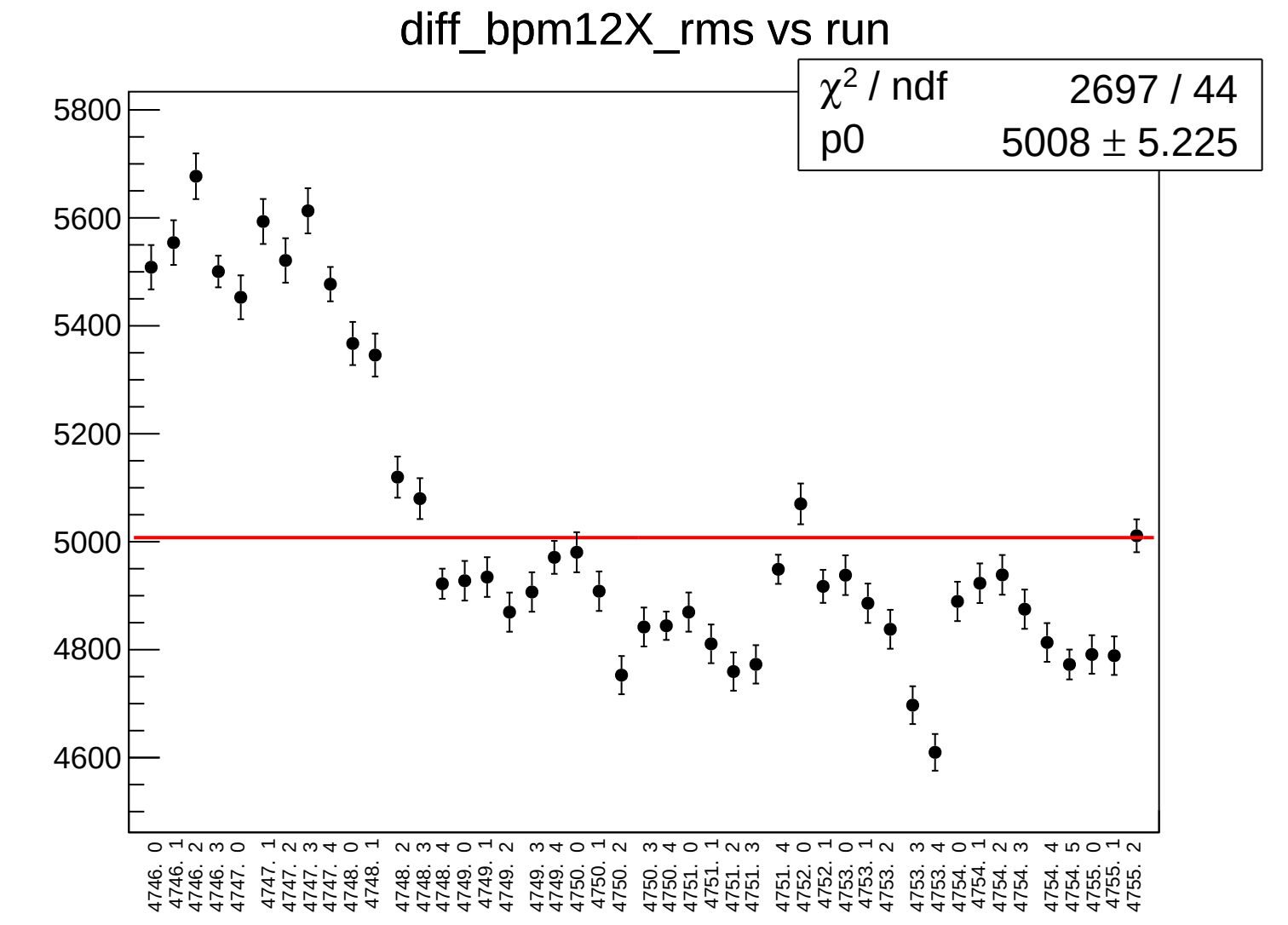

diff_bpm11Y_mean vs run
χ² / ndf 35.73 / 44
p0 −0.3824 ± 1.77
pull
Entries 45
Mean 174.7
Std Dev 158.3

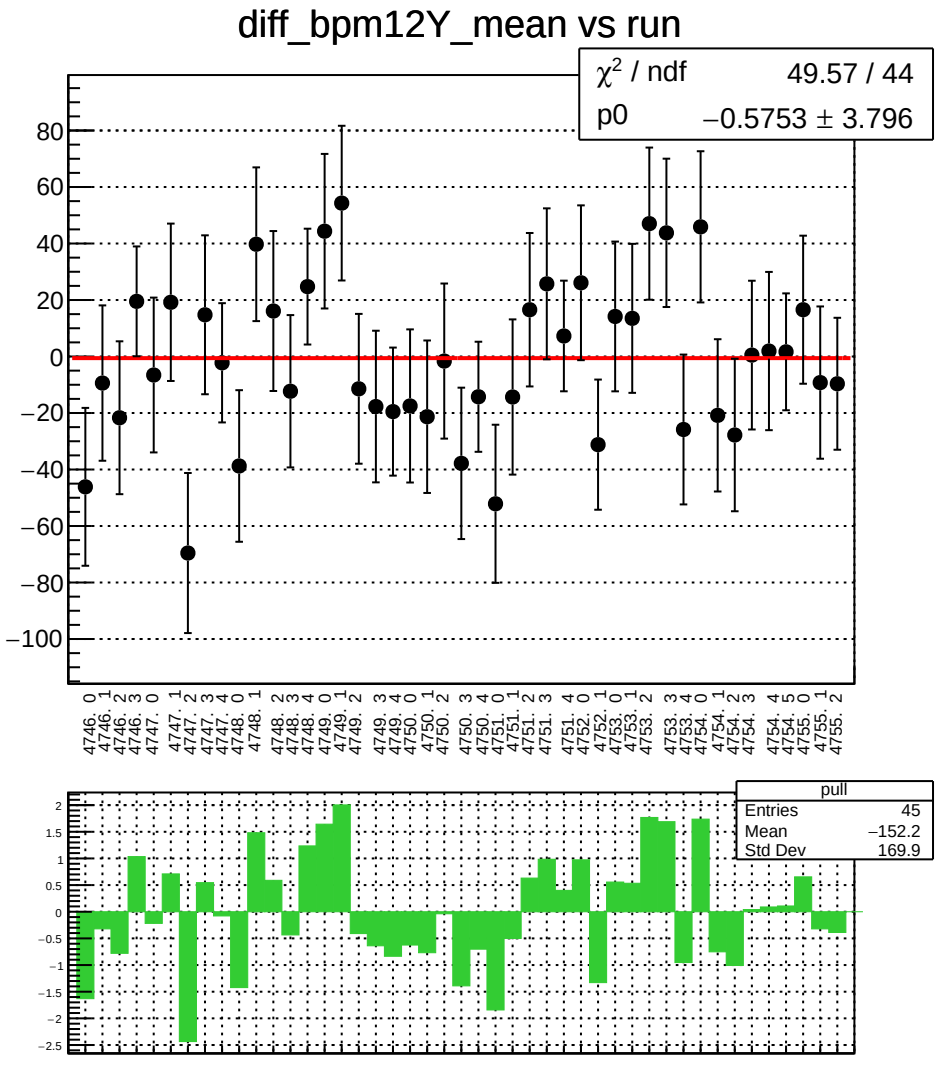

pull1D
Entries 45
Mean −0.01236
Std Dev 0.891

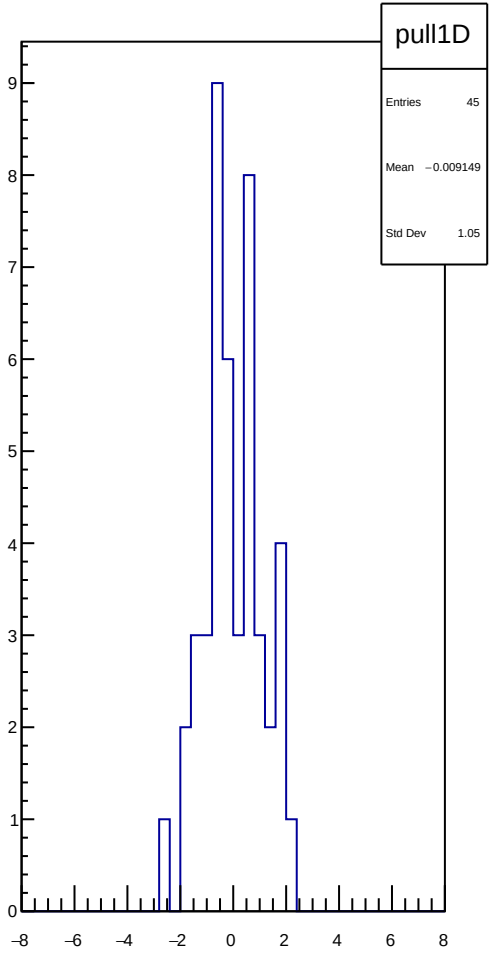

diff_bpm11Y_rms vs run
χ² / ndf 127.9 / 44
p0 1201 ± 1.252
1240
1220
1200
1180
1160
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

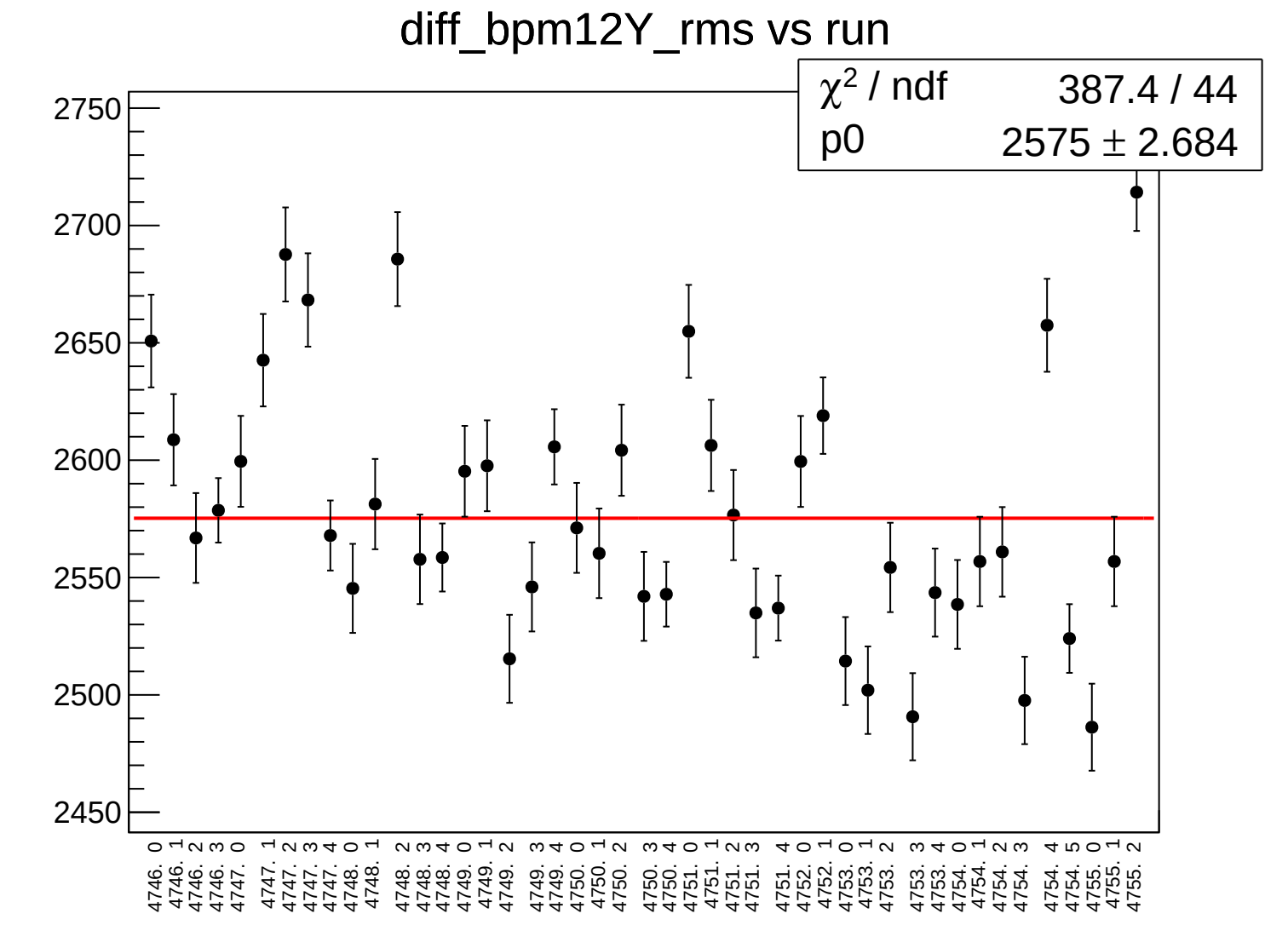

diff_bpm12X_mean vs run
χ² / ndf 33.66 / 44
p0 −2.72 ± 7.39
150
100
50
0
−50
−100
−150
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 55.18
Std Dev 35.82
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

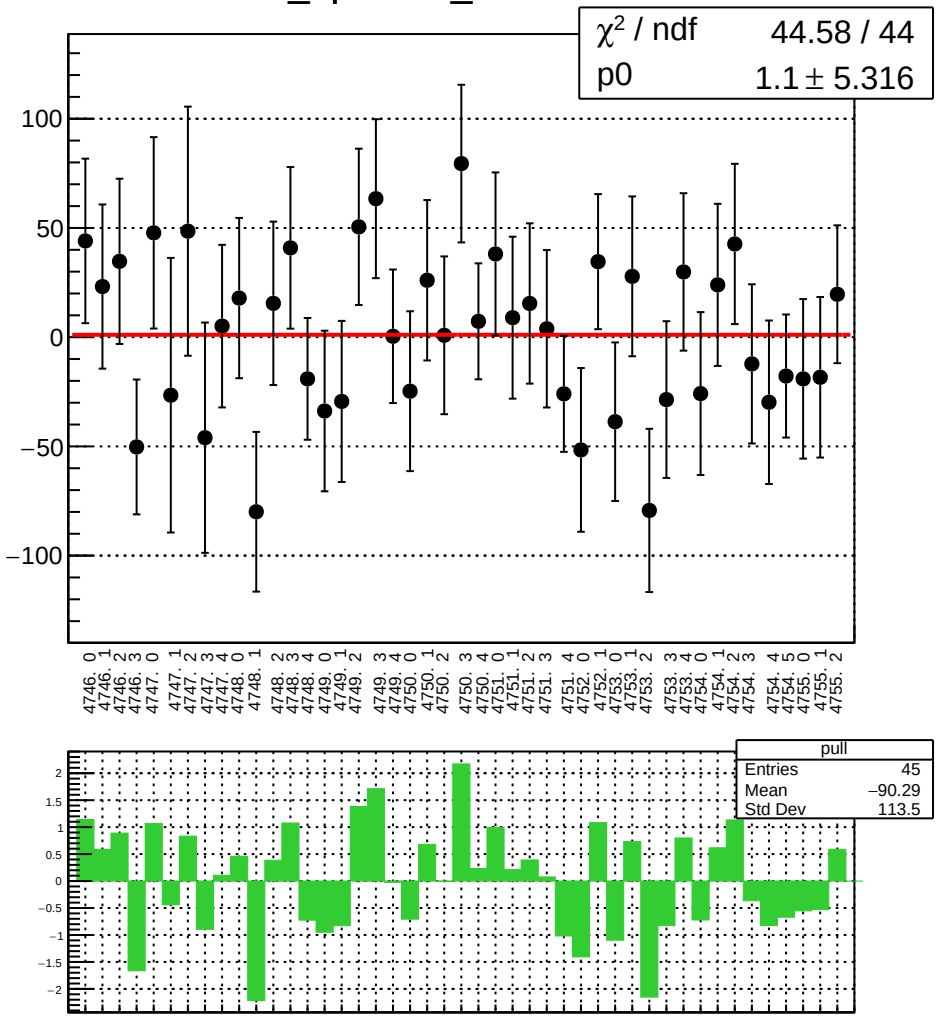

pull1D
Entries 45
Mean −0.01804
Std Dev 0.8647
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

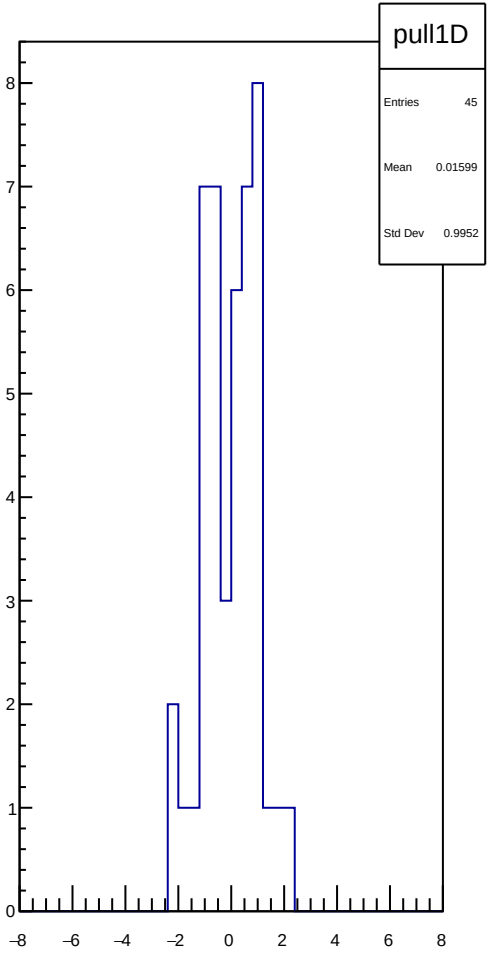

diff_bpm12X_rms vs run
χ^2 / ndf 2697 / 44
p0 5008 ± 5.225
5800
5600
5400
5200
5000
4800
4600
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

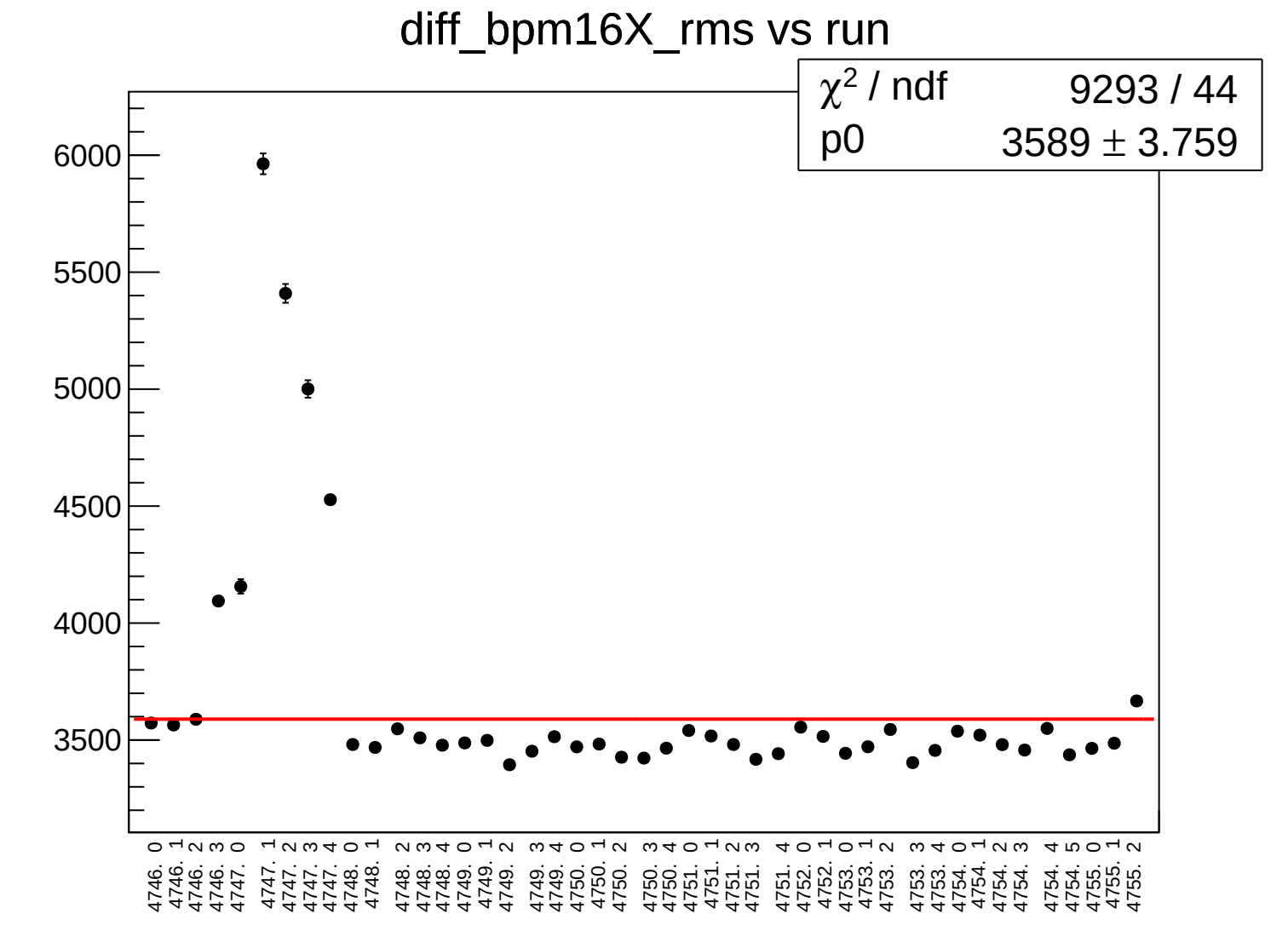

diff_bpm12Y_mean vs run
χ² / ndf 49.57 / 44
p0 −0.5753 ± 3.796
pull
Entries 45
Mean −152.2
Std Dev 169.9

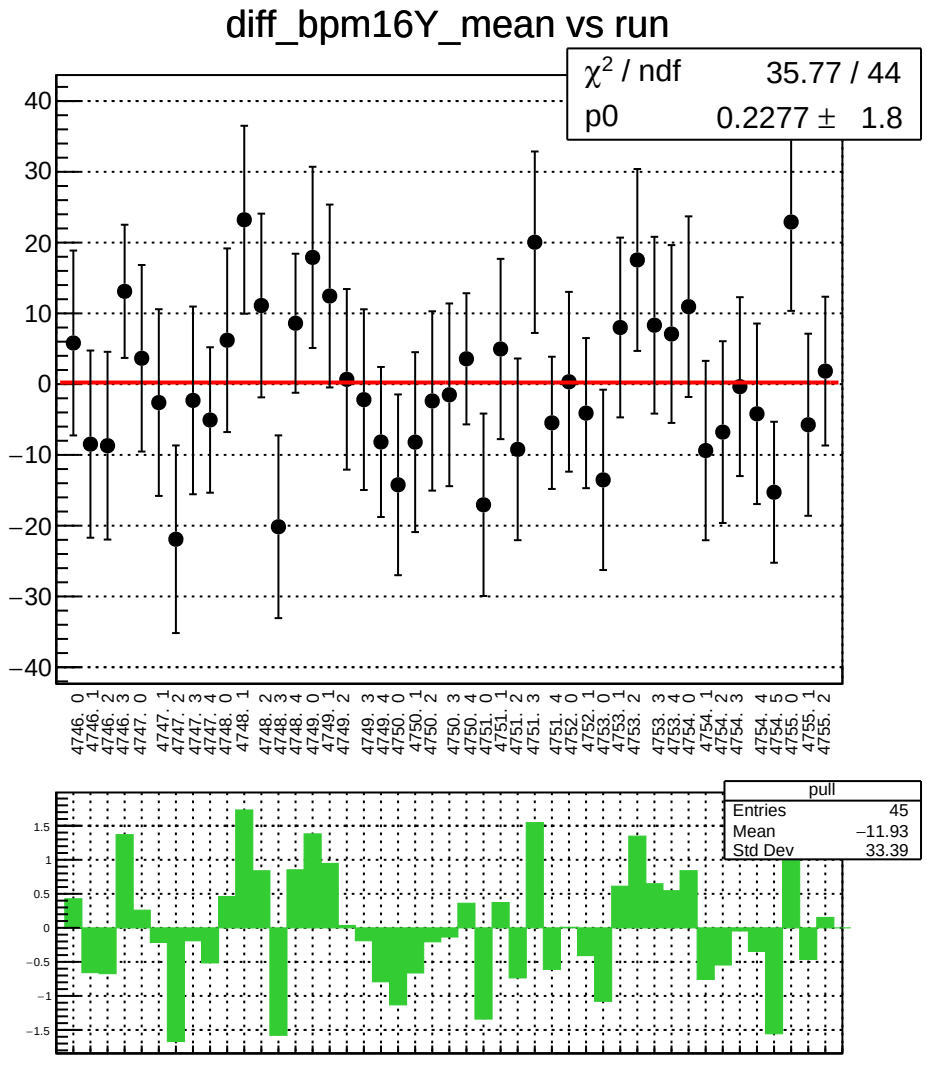

pull1D
Entries 45
Mean −0.009149
Std Dev 1.05

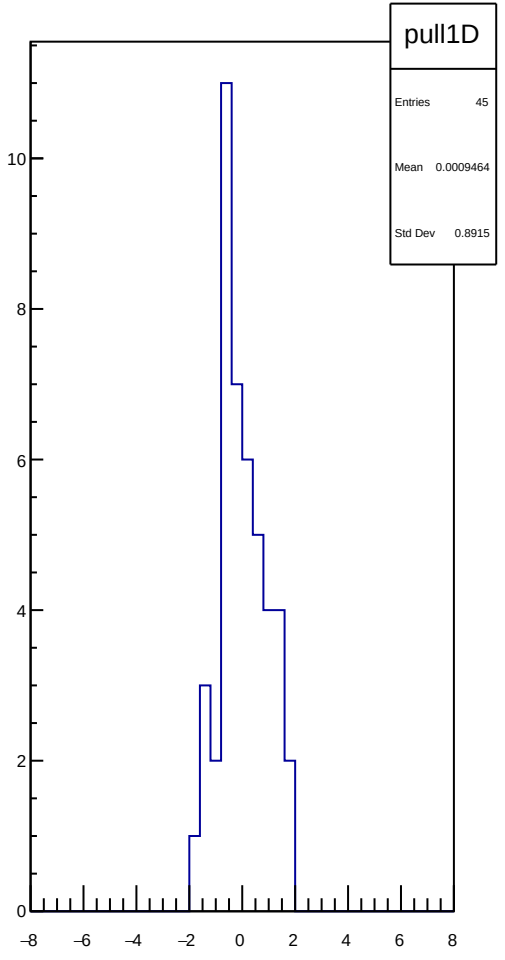

diff_bpm12Y_rms vs run
χ² / ndf 387.4 / 44
p0 2575 ± 2.684
2750
2700
2650
2600
2550
2500
2450
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

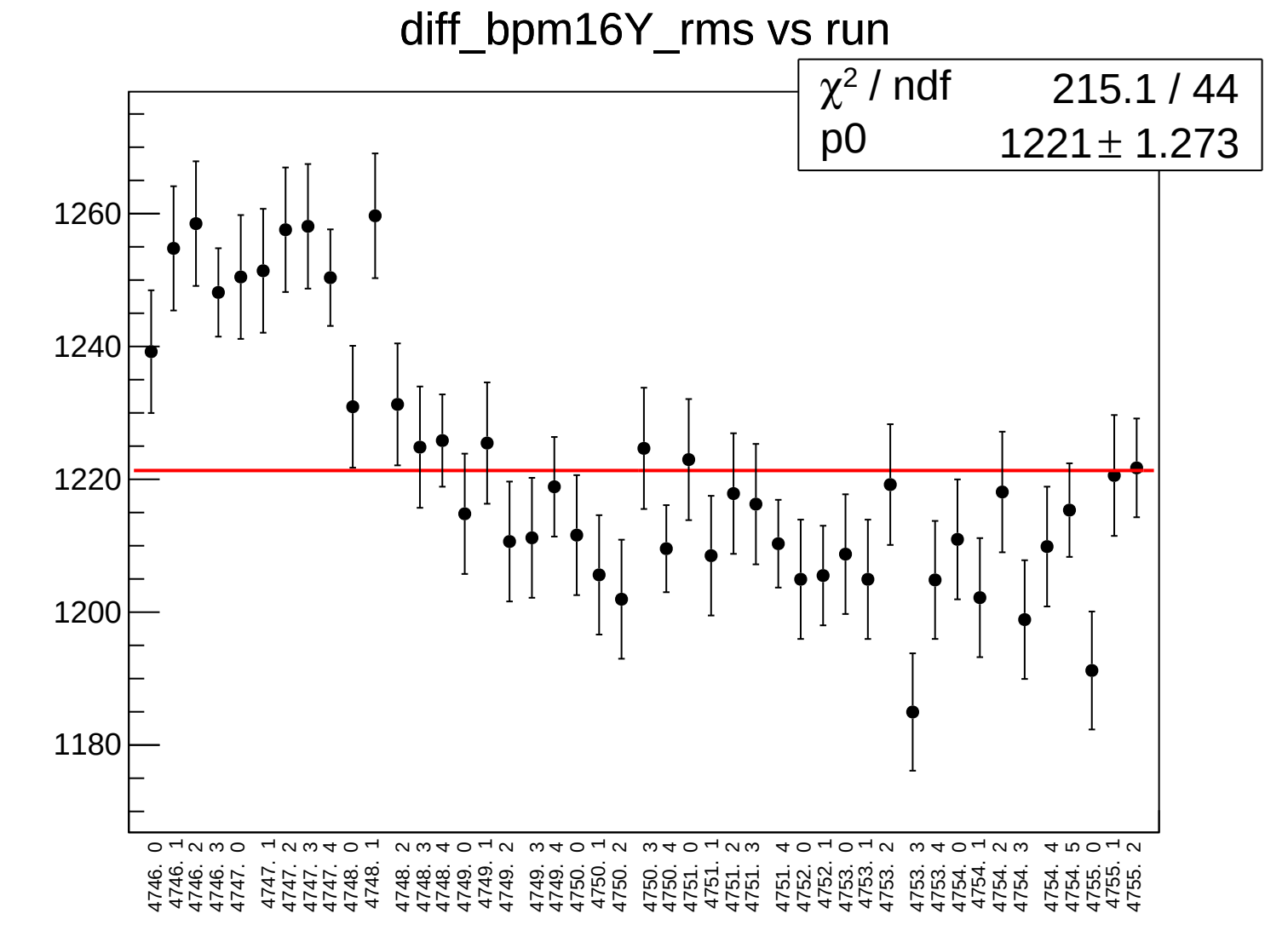

diff_bpm16X_mean vs run
χ² / ndf 44.58 / 44
p0 1.1 ± 5.316
100
50
0
−50
−100
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −90.29
Std Dev 113.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

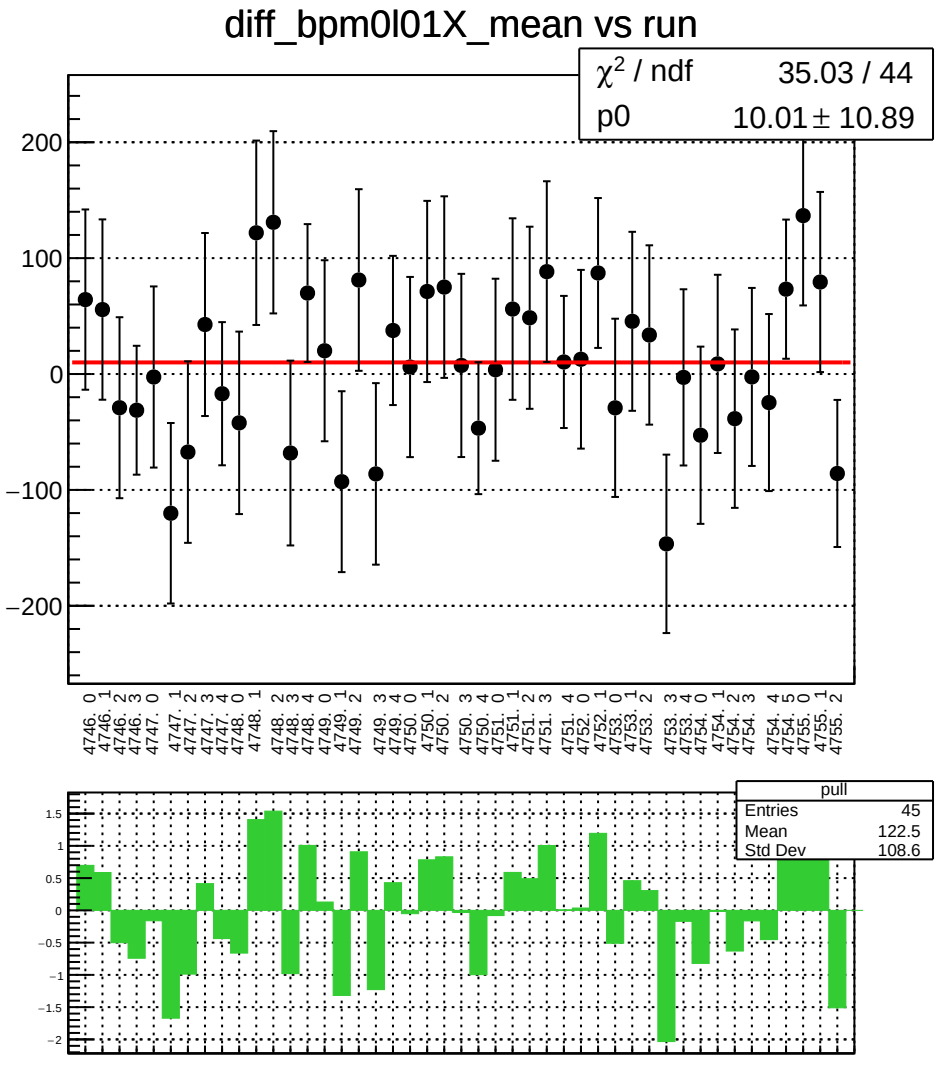

pull1D
Entries 45
Mean 0.01599
Std Dev 0.9952
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

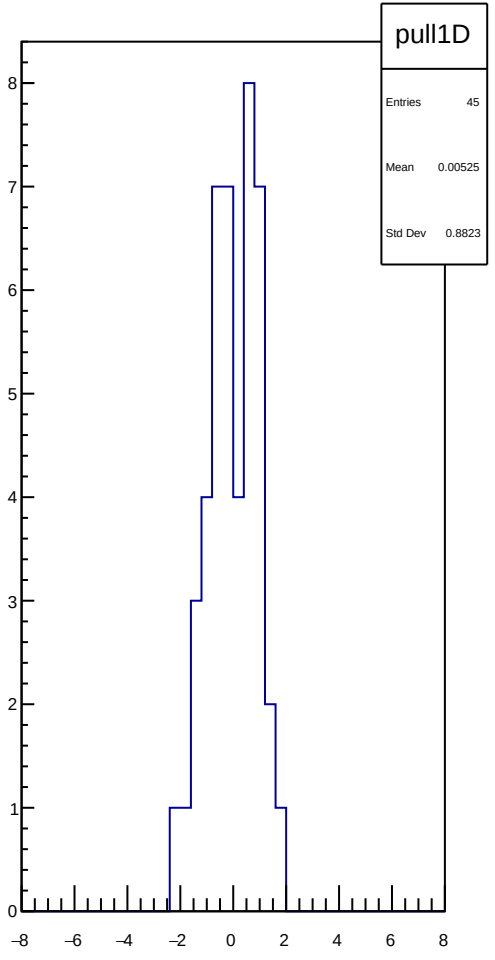

diff_bpm16X_rms vs run
χ² / ndf 9293 / 44
p0 3589 ± 3.759
6000
5500
5000
4500
4000
3500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

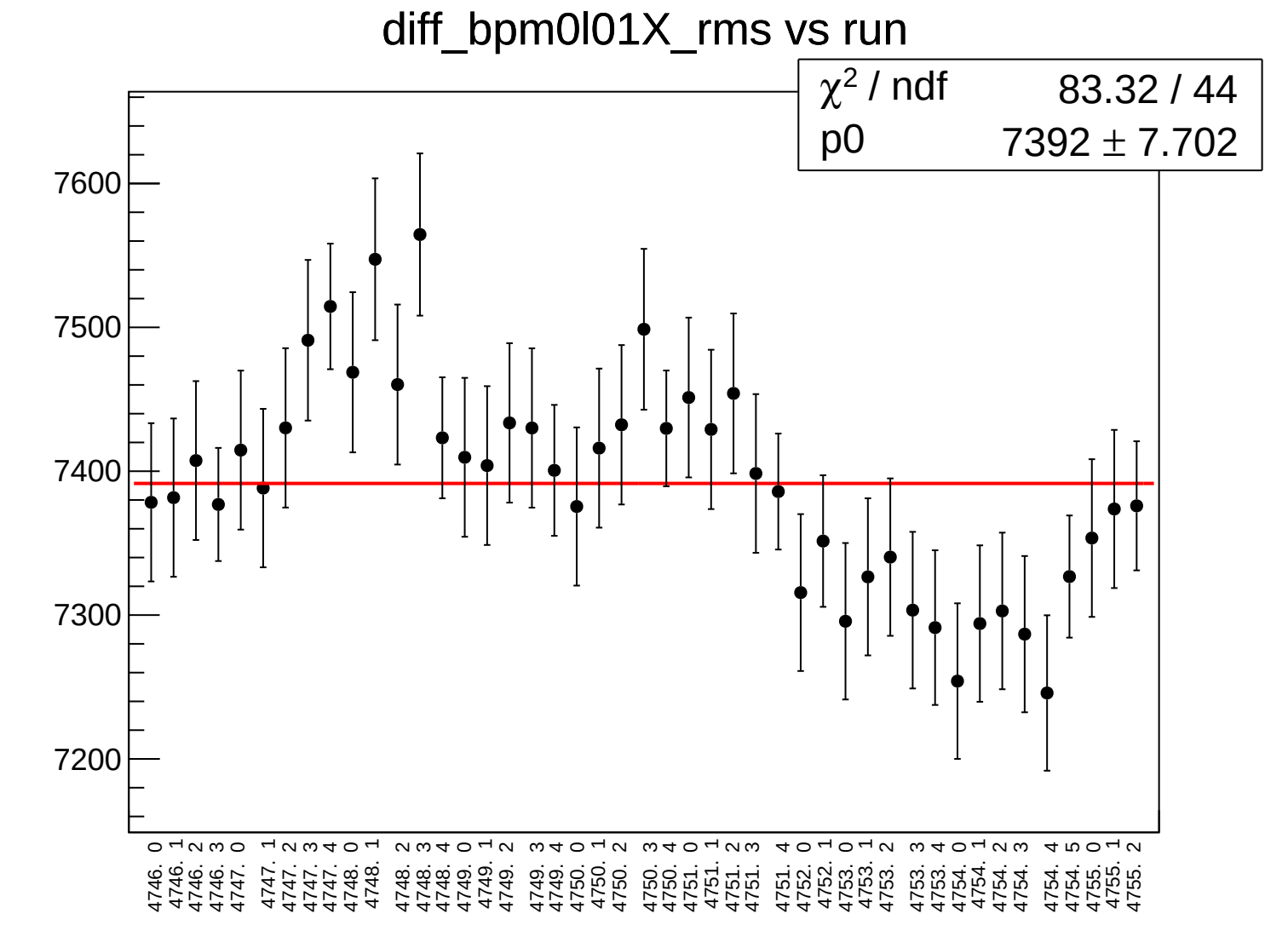

diff_bpm16Y_mean vs run
χ² / ndf 35.77 / 44
p0 0.2277 ± 1.8
pull
Entries 45
Mean −11.93
Std Dev 33.39

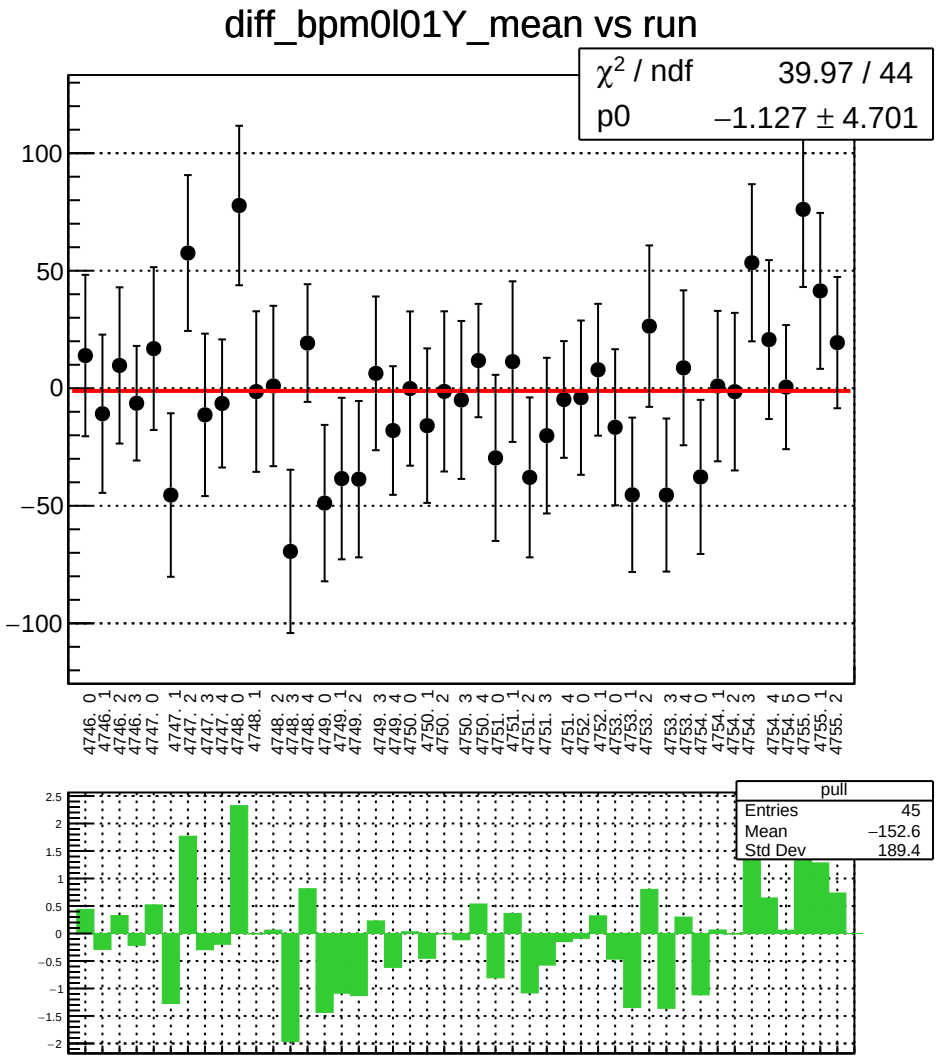

pull1D
Entries 45
Mean 0.0009464
Std Dev 0.8915

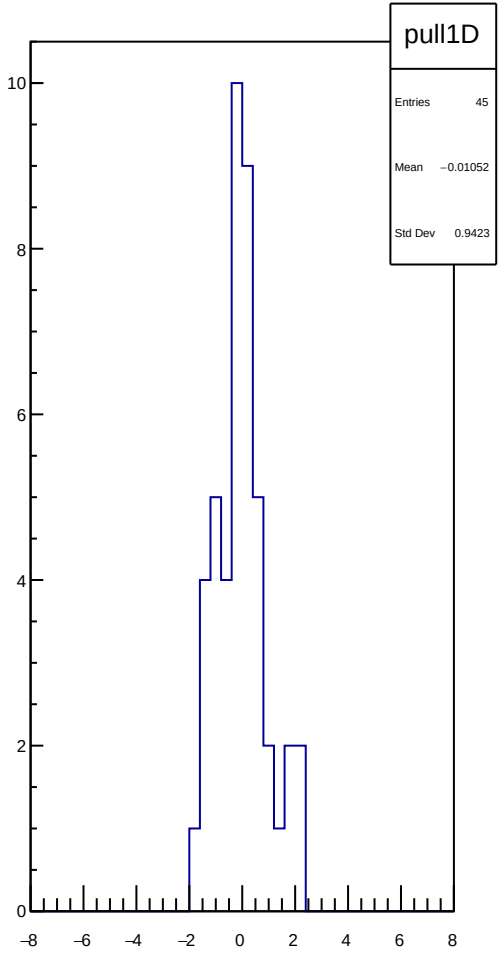

diff_bpm16Y_rms vs run
χ² / ndf 215.1 / 44
p0 1221 ± 1.273
1260
1240
1220
1200
1180
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

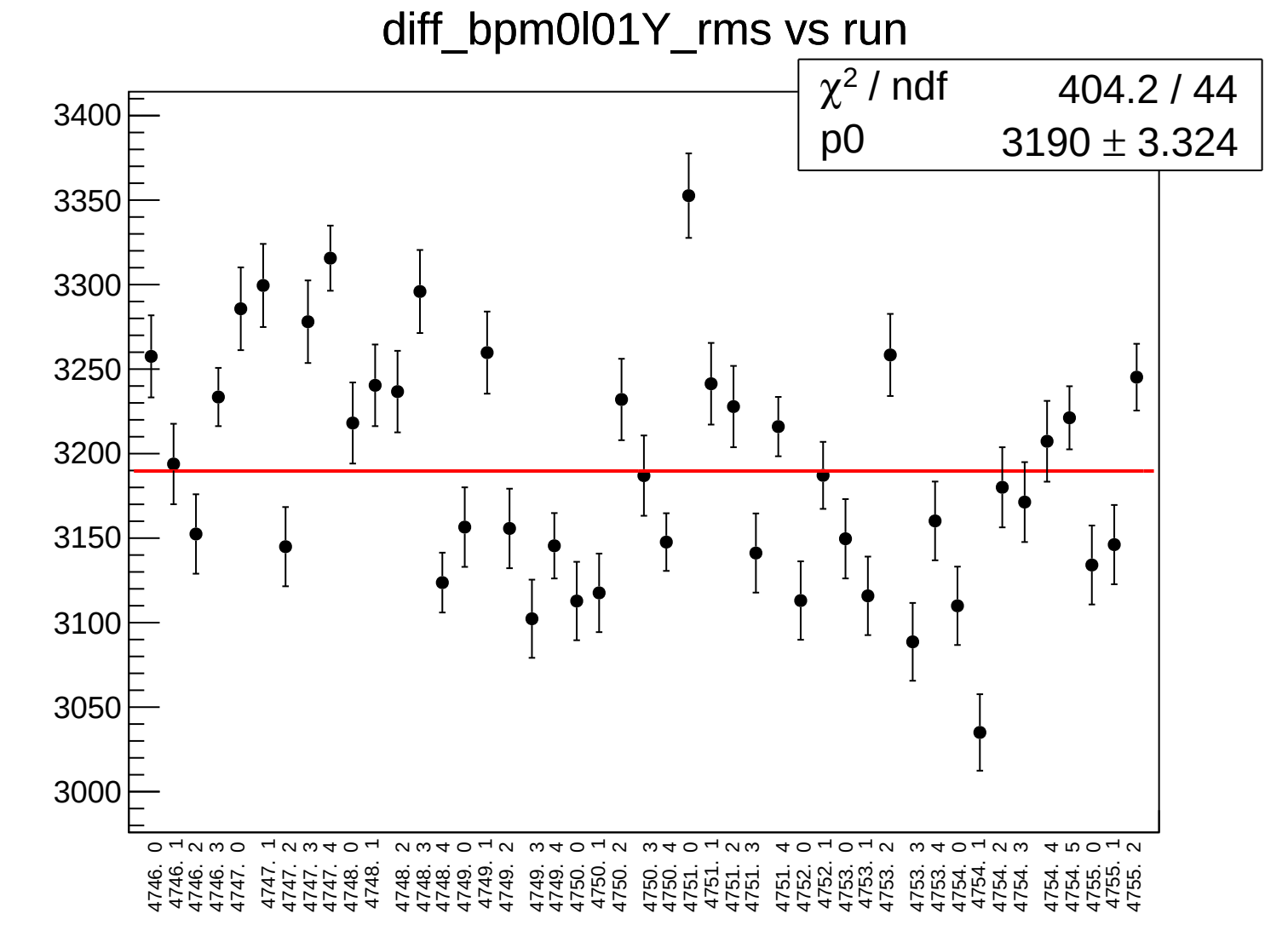

diff_bpm0l01X_mean vs run
χ² / ndf 35.03 / 44
p0 10.01 ± 10.89
200
100
0
−100
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 122.5
Std Dev 108.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

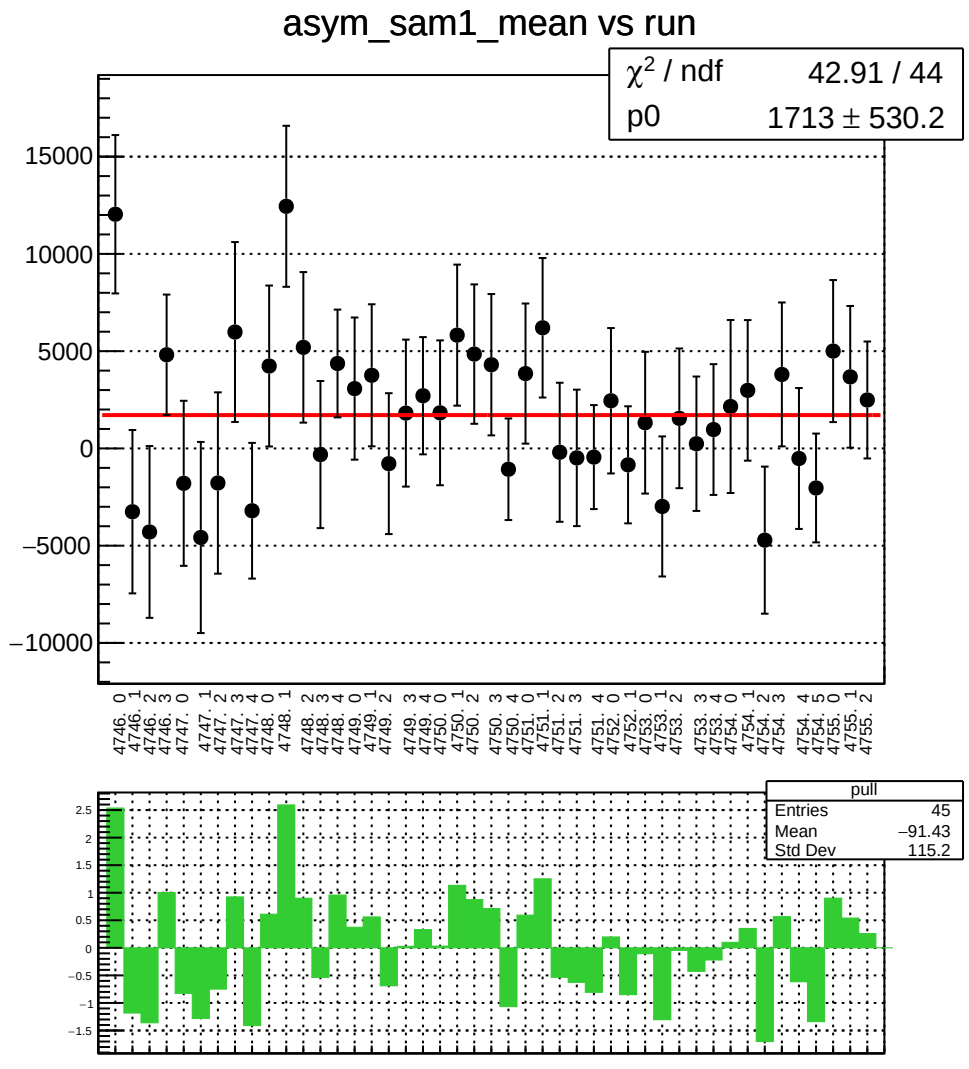

pull1D
Entries 45
Mean 0.00525
Std Dev 0.8823
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

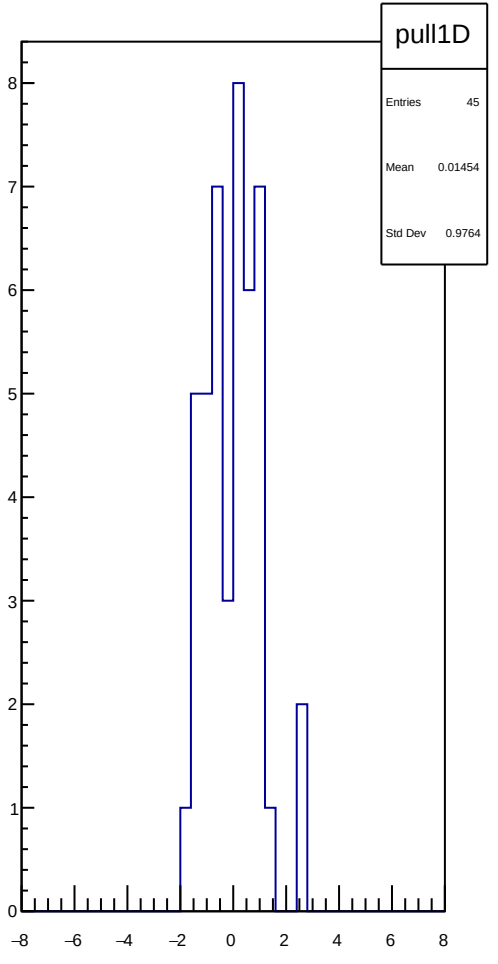

diff_bpm0l01X_rms vs run
χ² / ndf 83.32 / 44
p0 7392 ± 7.702
7600
7500
7400
7300
7200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

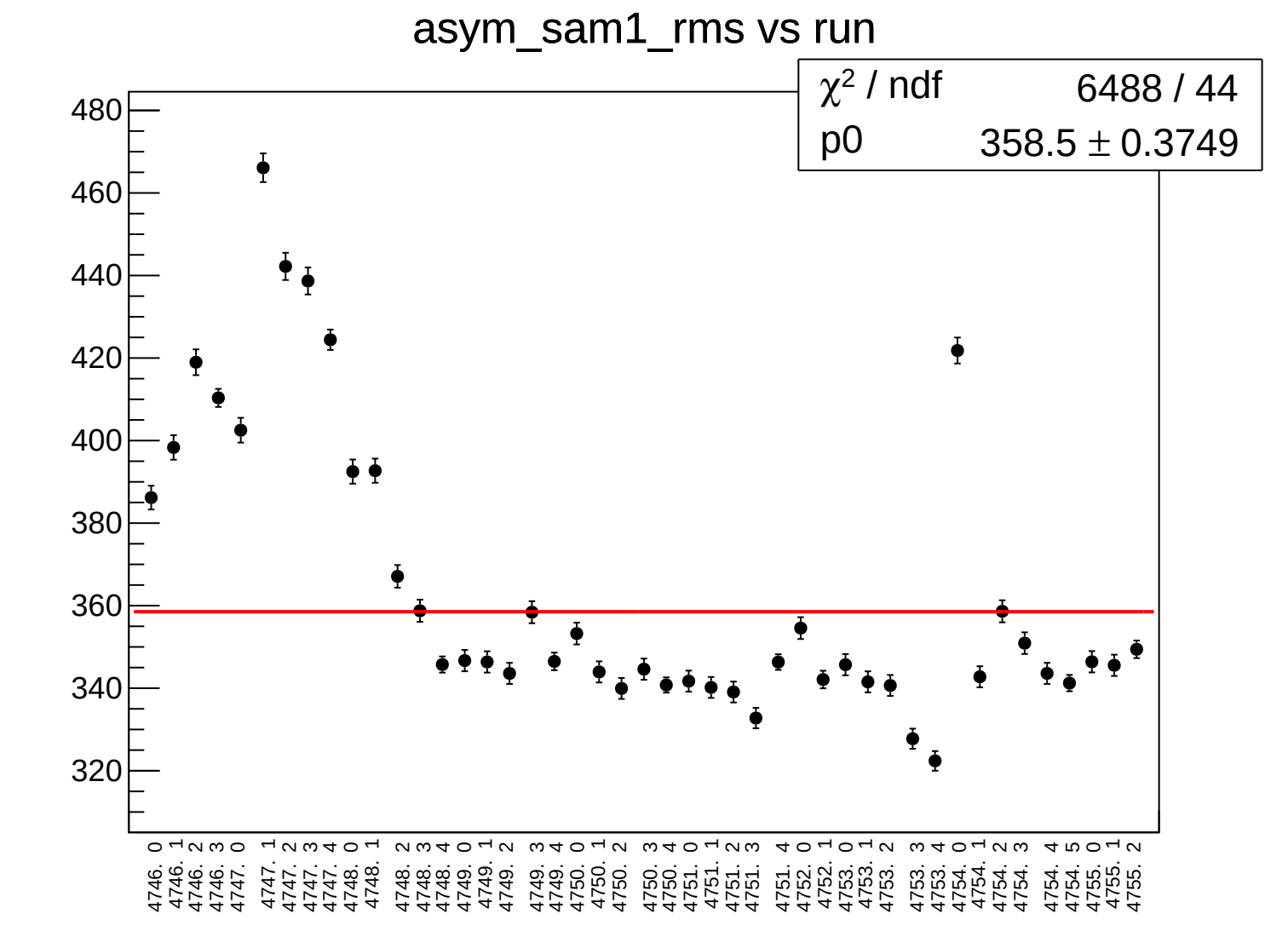

diff_bpm0l01Y_mean vs run
χ² / ndf 39.97 / 44
p0 −1.127 ± 4.701
100
50
0
−50
−100
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −152.6
Std Dev 189.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

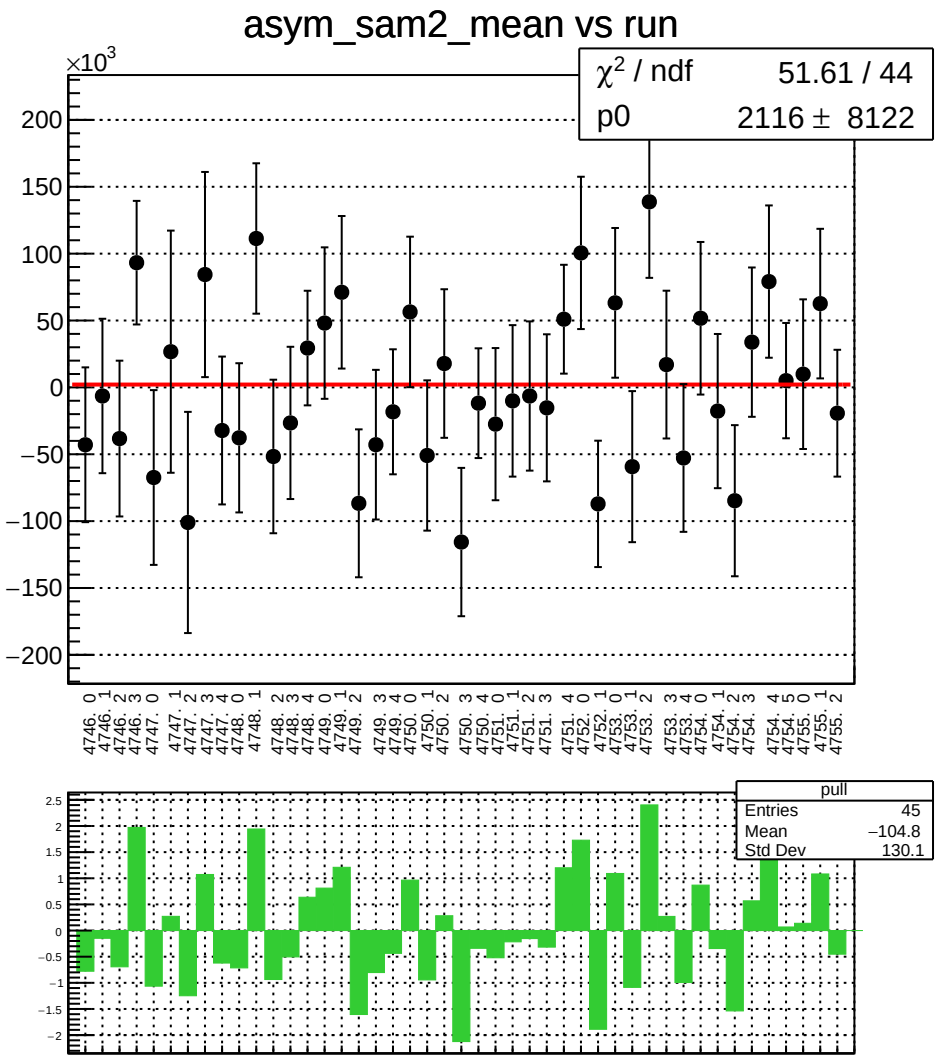

pull1D
Entries 45
Mean −0.01052
Std Dev 0.9423
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

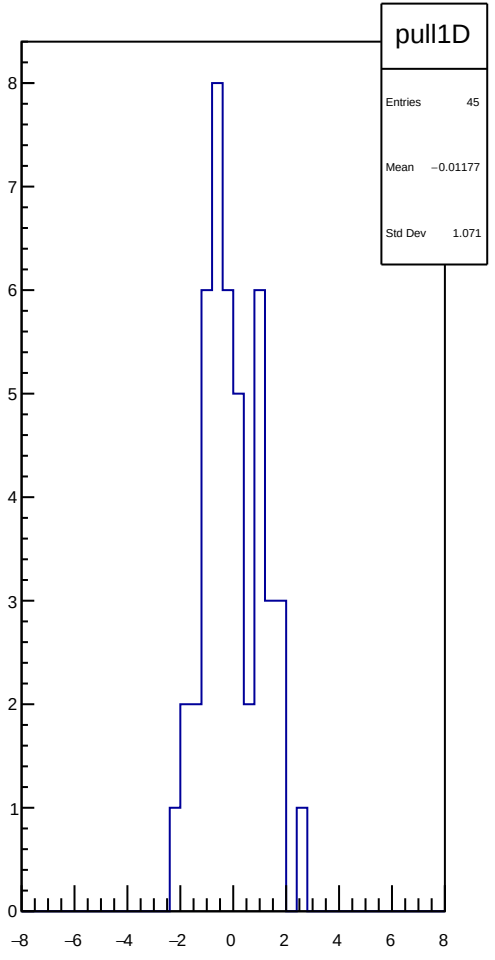

diff_bpm0l01Y_rms vs run
χ² / ndf 404.2 / 44
p0 3190 ± 3.324
3400
3350
3300
3250
3200
3150
3100
3050
3000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

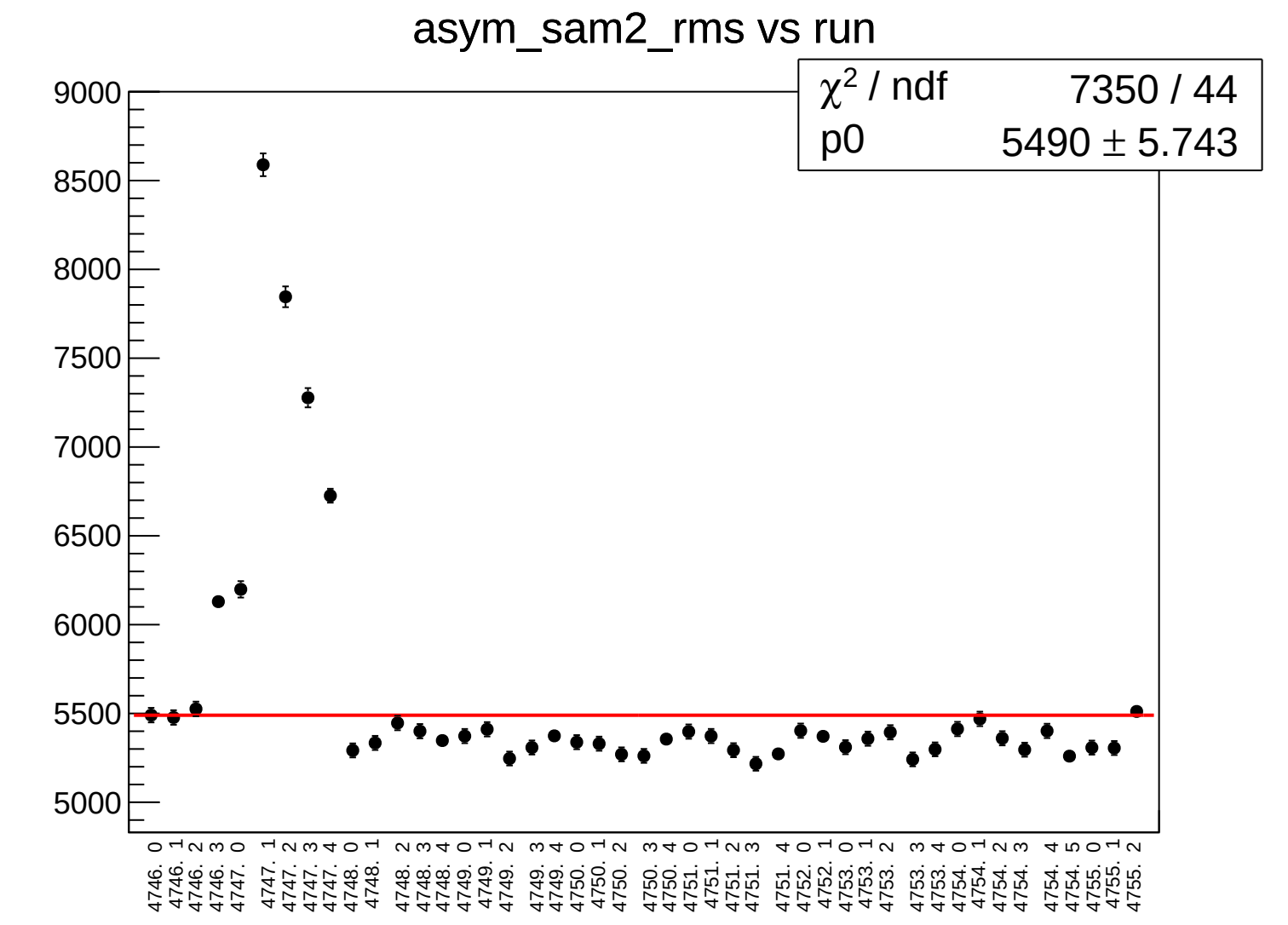

asym_sam1_mean vs run
χ² / ndf 42.91 / 44
p0 1713 ± 530.2
15000
10000
5000
0
−5000
−10000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −91.43
Std Dev 115.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

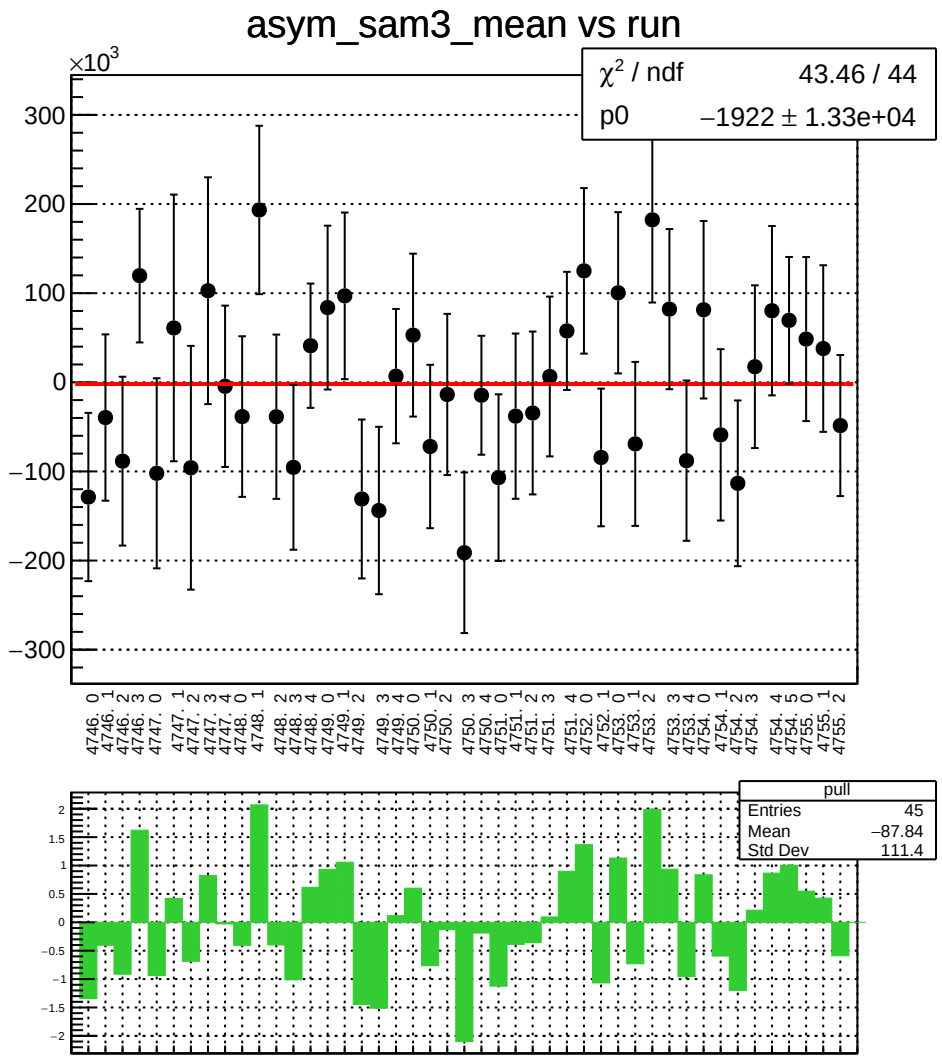

pull1D
Entries 45
Mean 0.01454
Std Dev 0.9764
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

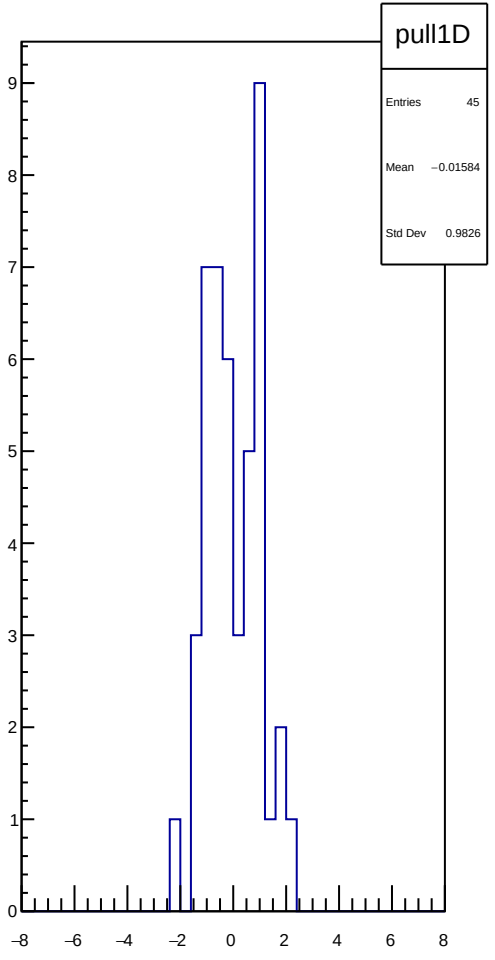

asym_sam1_rms vs run
χ² / ndf 6488 / 44
p0 358.5 ± 0.3749
480
460
440
420
400
380
360
340
320
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

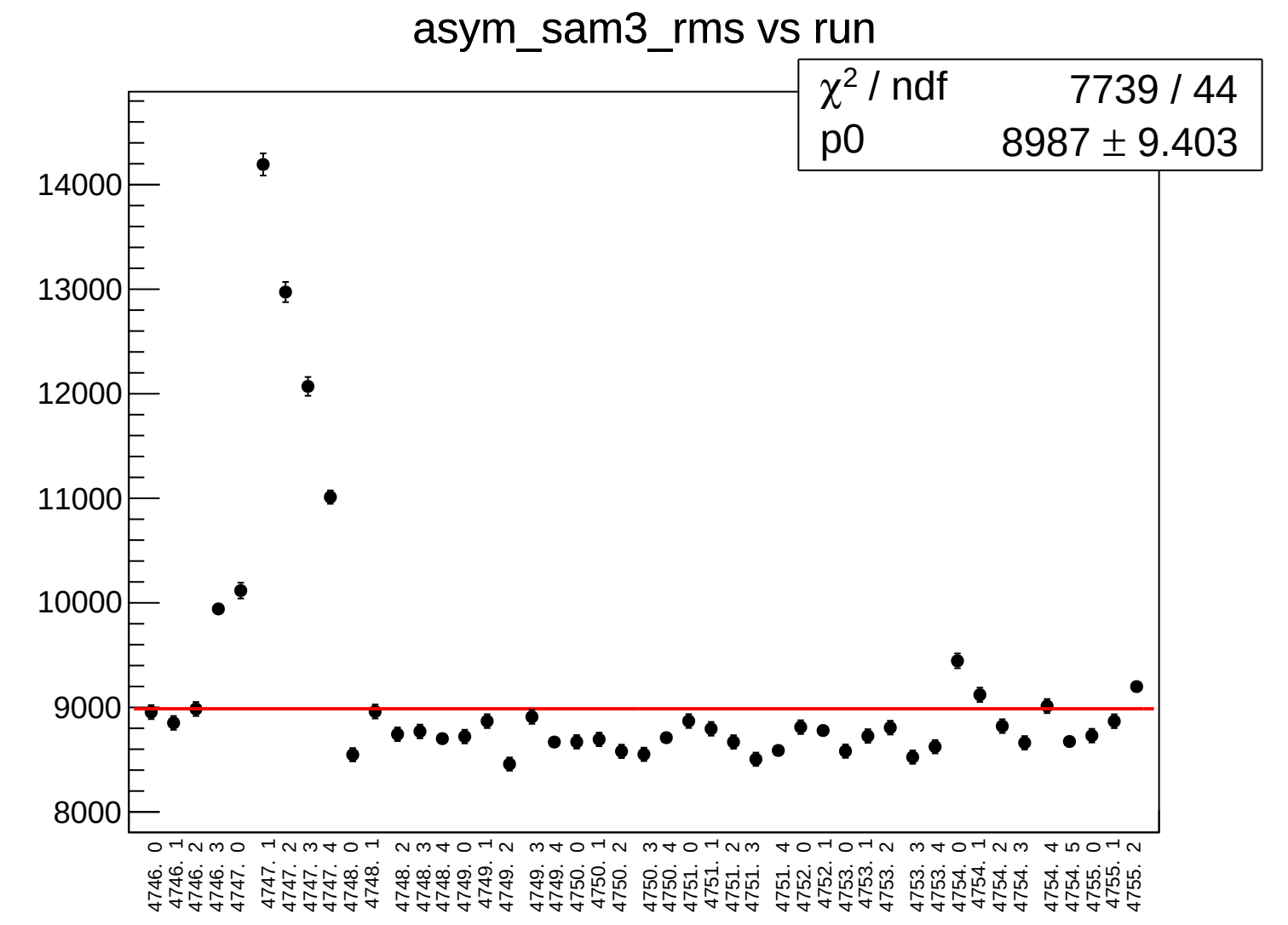

asym_sam2_mean vs run
×10^3
χ^2 / ndf 51.61 / 44
p0 2116 ± 8122
200
150
100
50
0
−50
−100
−150
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −104.8
Std Dev 130.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

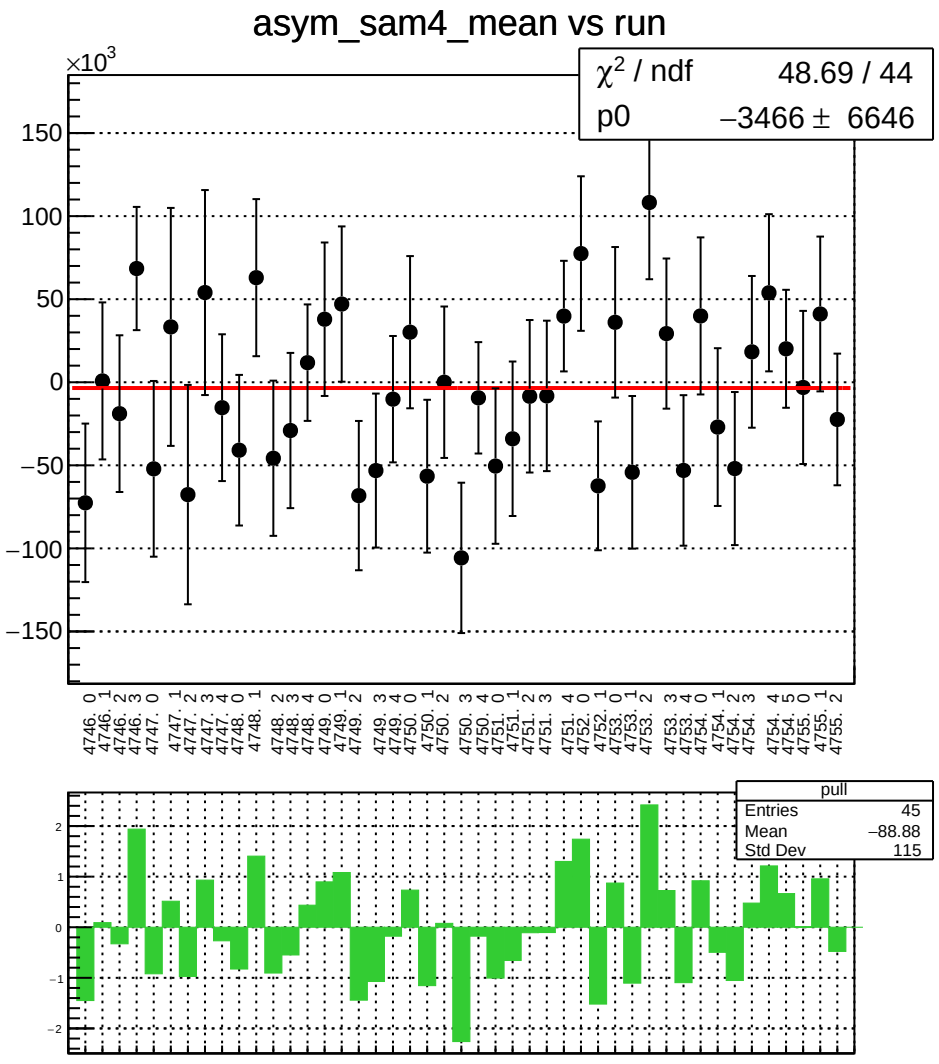

pull1D
Entries 45
Mean −0.01177
Std Dev 1.071
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

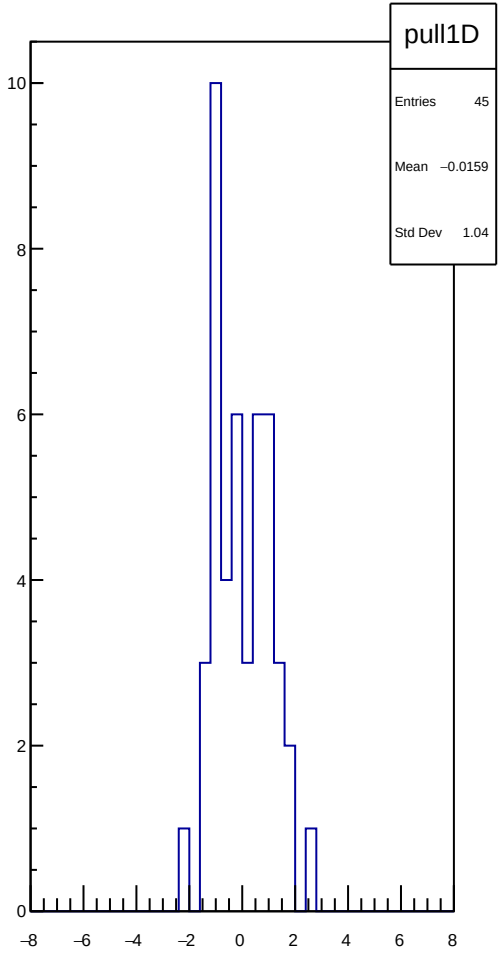

asym_sam2_rms vs run
χ^2 / ndf 7350 / 44
p0 5490 ± 5.743
9000
8500
8000
7500
7000
6500
6000
5500
5000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

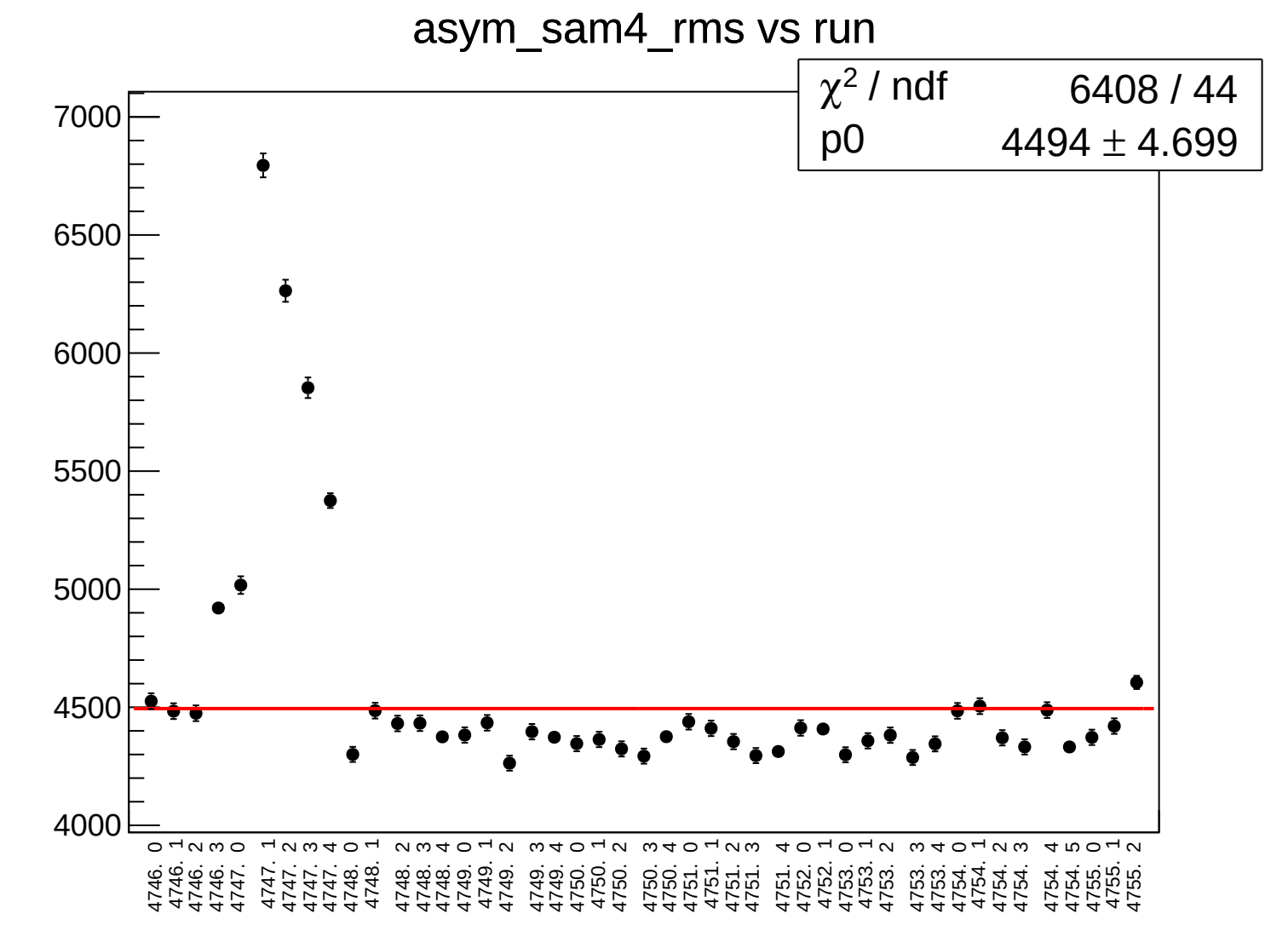

asym_sam3_mean vs run
×10^3
χ² / ndf 43.46 / 44
p0 −1922 ± 1.33e+04
300
200
100
0
−100
−200
−300
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −87.84
Std Dev 111.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

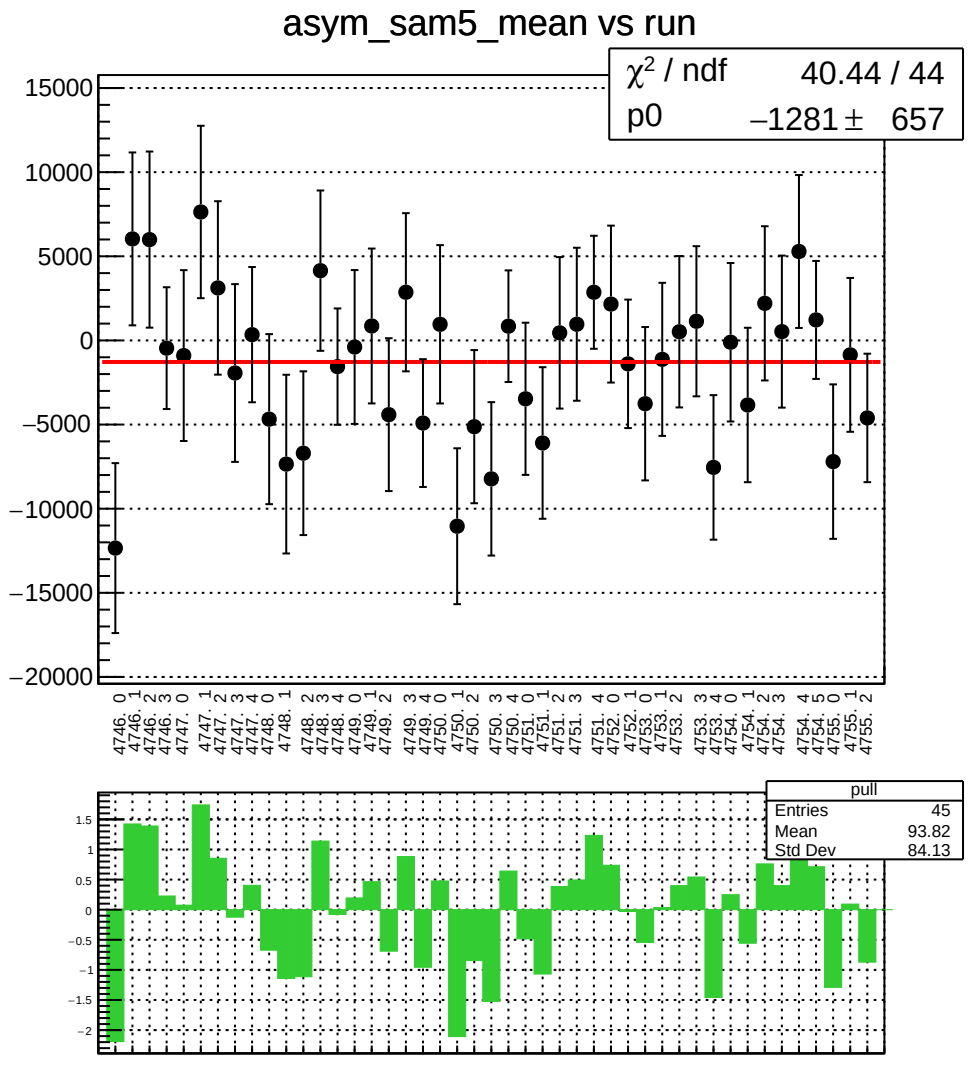

pull1D
Entries 45
Mean −0.01584
Std Dev 0.9826
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

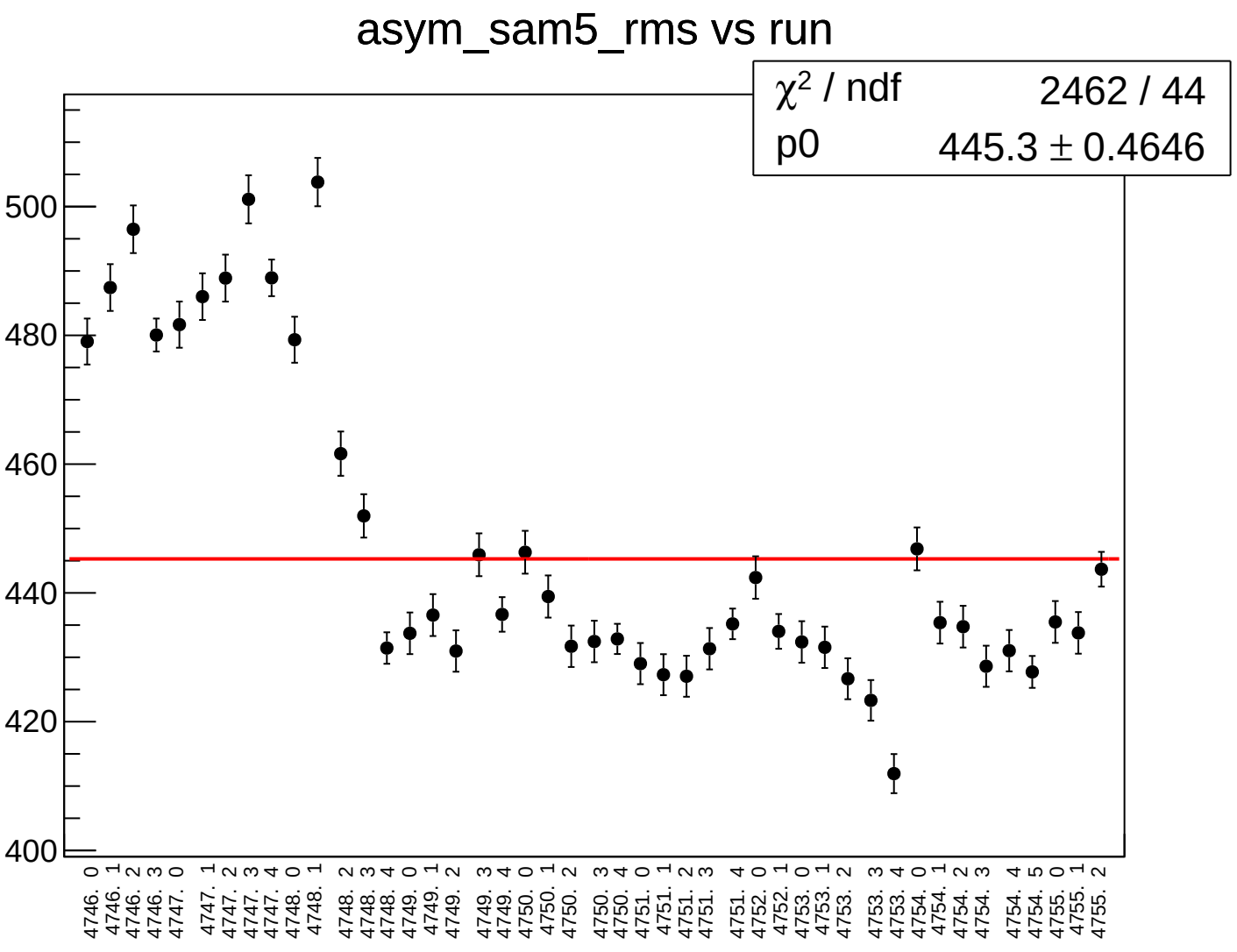

asym_sam3_rms vs run
χ² / ndf 7739 / 44
p0 8987 ± 9.403
14000
13000
12000
11000
10000
9000
8000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

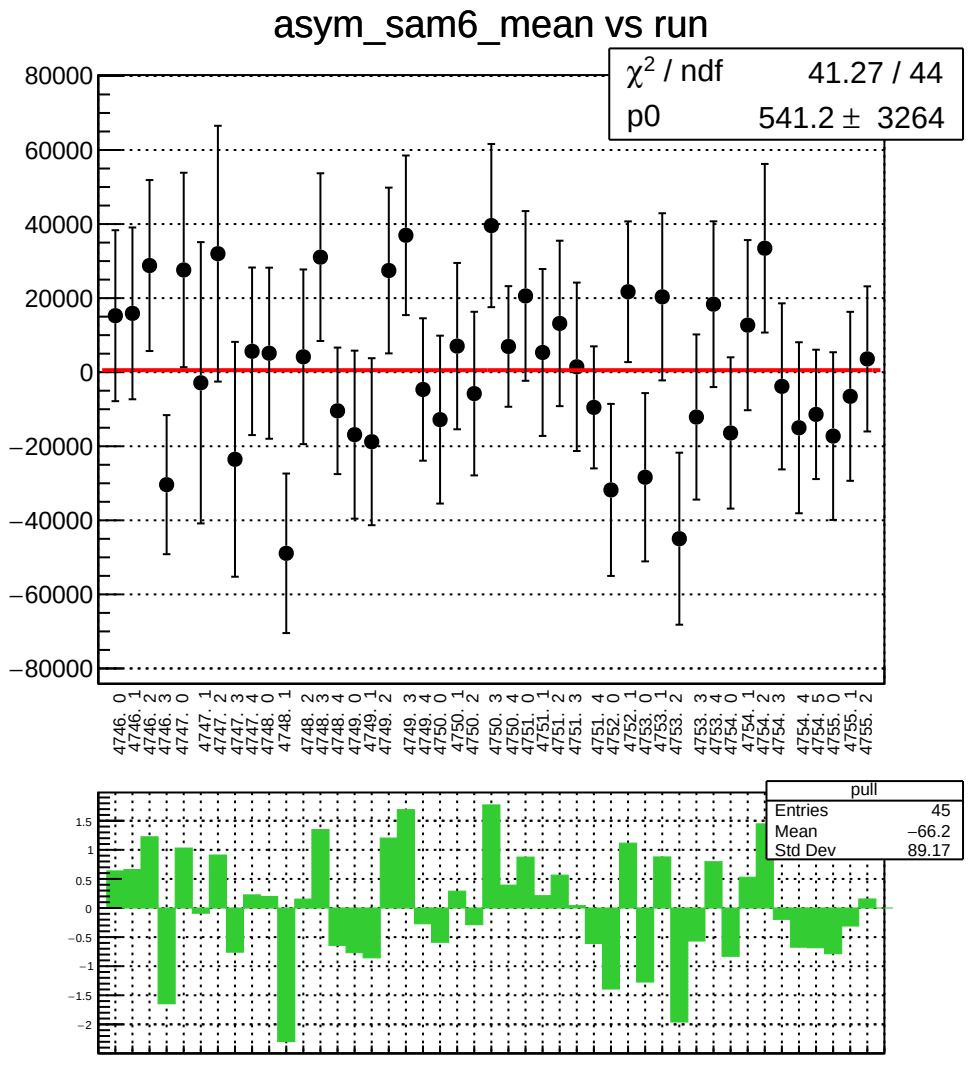

asym_sam4_mean vs run
×10^3
χ² / ndf 48.69 / 44
p0 −3466 ± 6646
150
100
50
0
−50
−100
−150
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −88.88
Std Dev 115
2
1
0
−1
−2

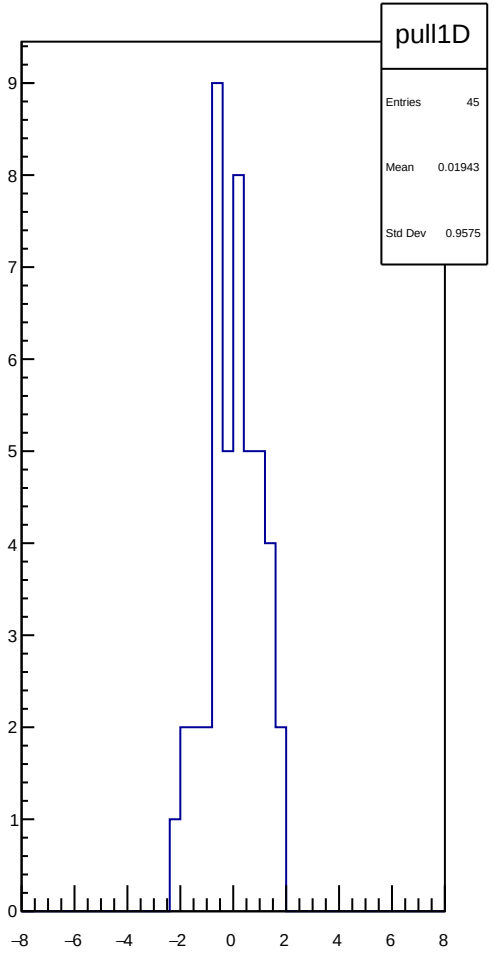

pull1D
Entries 45
Mean −0.0159
Std Dev 1.04
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

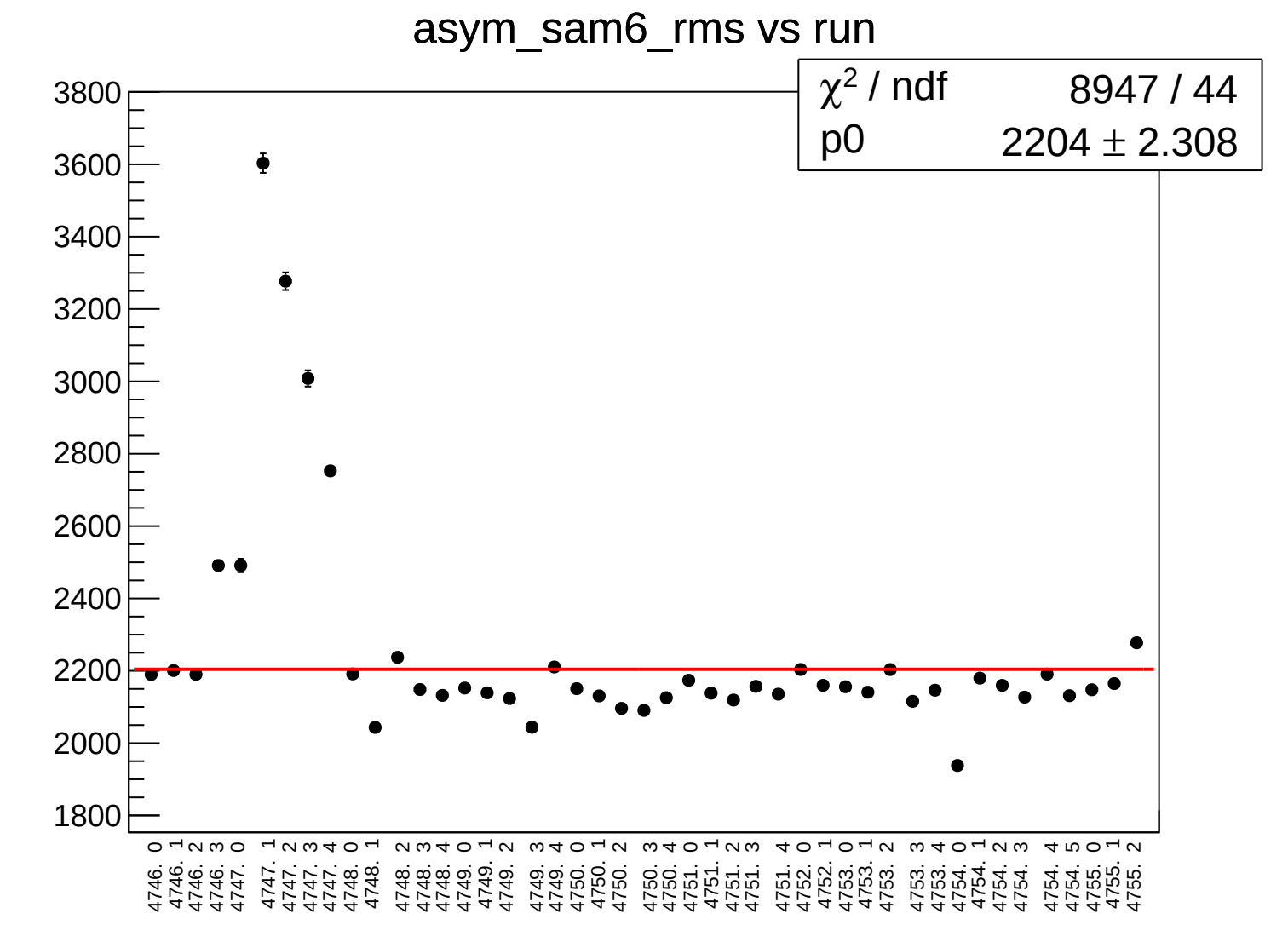

asym_sam4_rms vs run
χ² / ndf 6408 / 44
p0 4494 ± 4.699
7000
6500
6000
5500
5000
4500
4000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

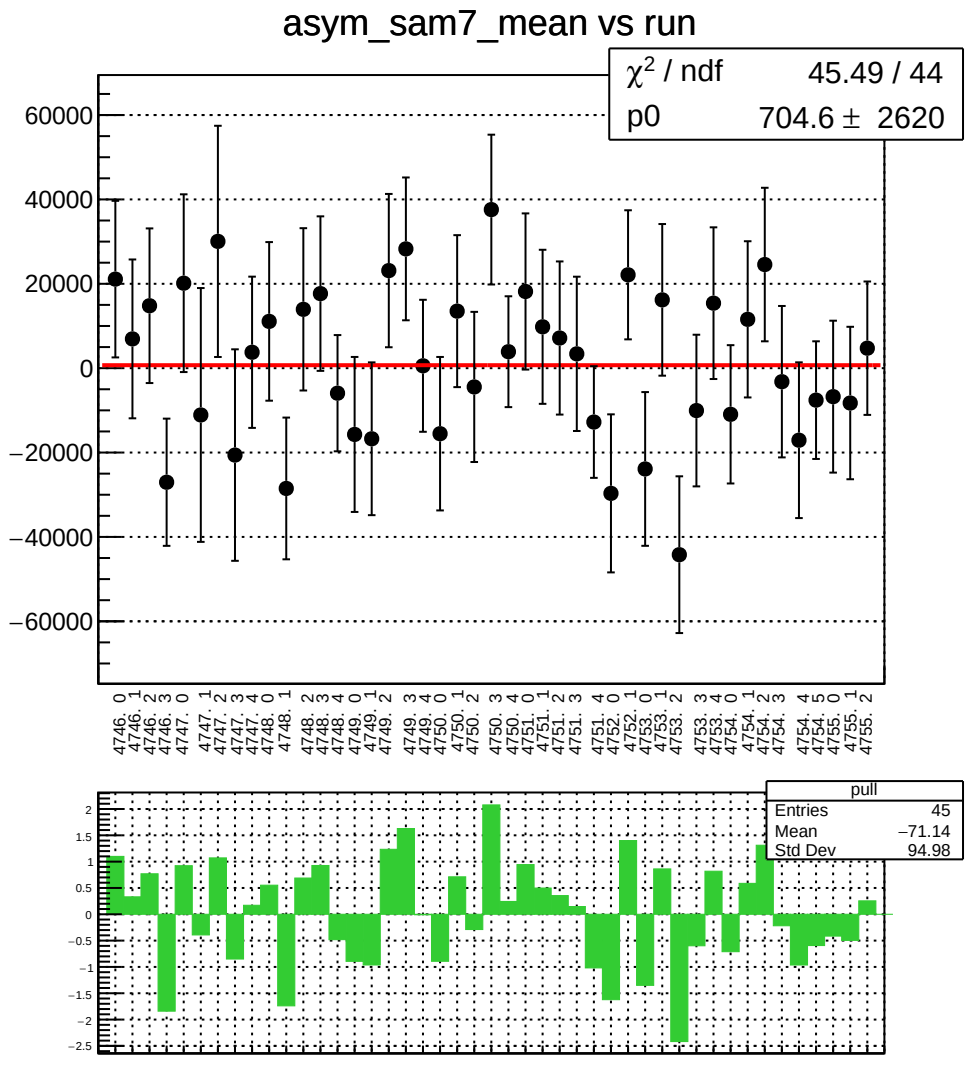

asym_sam5_mean vs run
χ² / ndf 40.44 / 44
p0 −1281 ± 657
15000
10000
5000
0
−5000
−10000
−15000
−20000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 93.82
Std Dev 84.13
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.007782
Std Dev 0.948
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

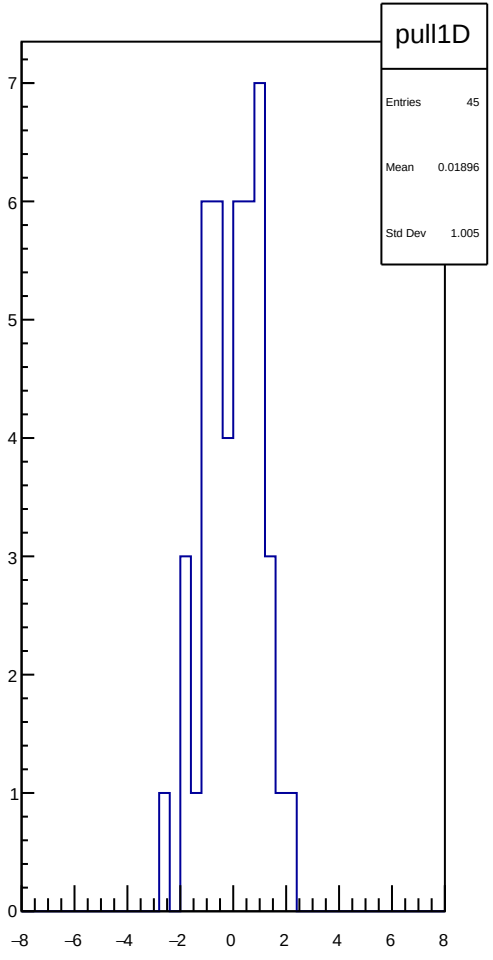

asym_sam5_rms vs run
χ² / ndf 2462 / 44
p0 445.3 ± 0.4646
500
480
460
440
420
400
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

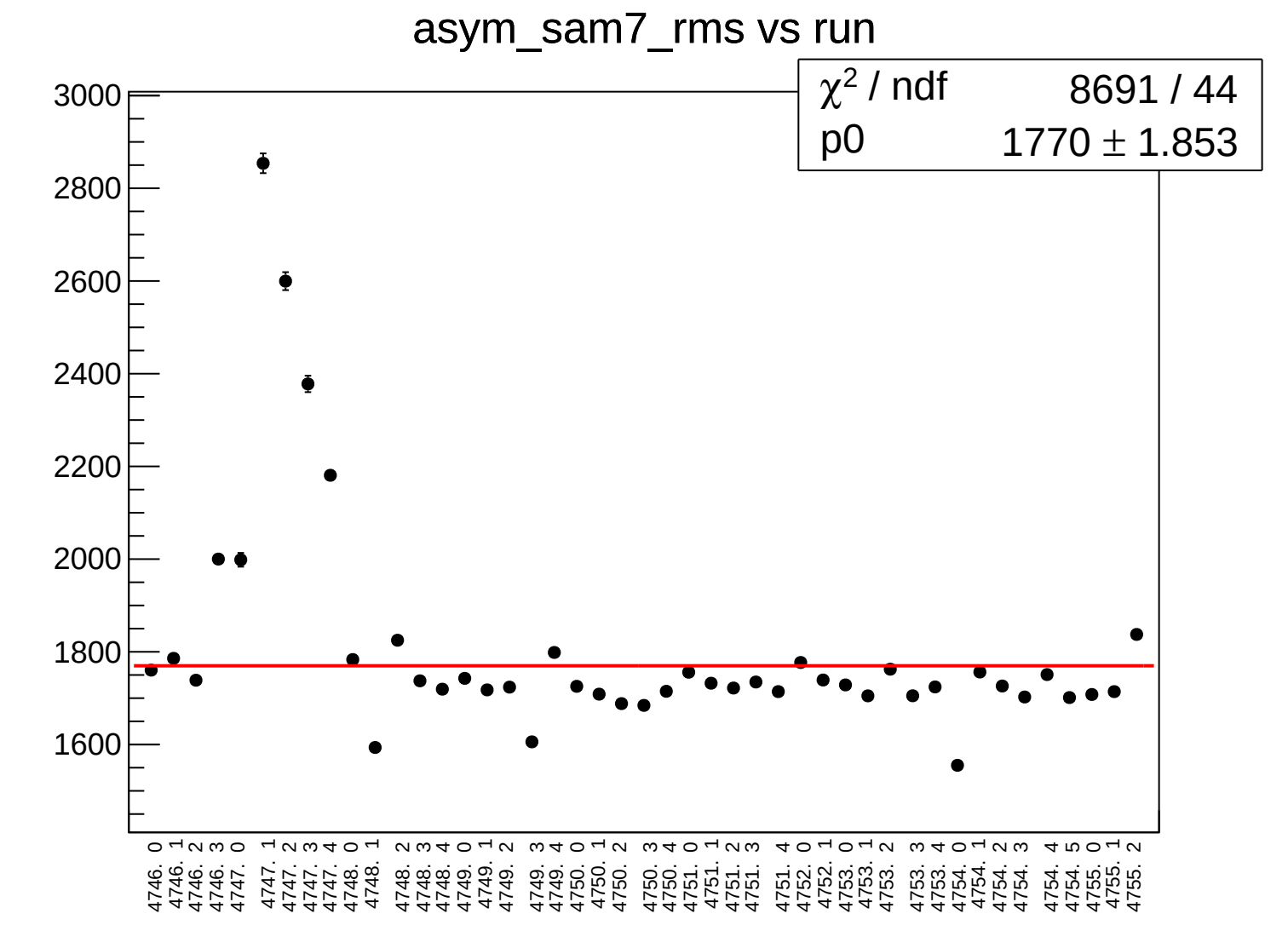

asym_sam6_mean vs run
χ² / ndf 41.27 / 44
p0 541.2 ± 3264
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −66.2
Std Dev 89.17
1.5
1
0.5
0
−0.5
−1
−1.5
−2

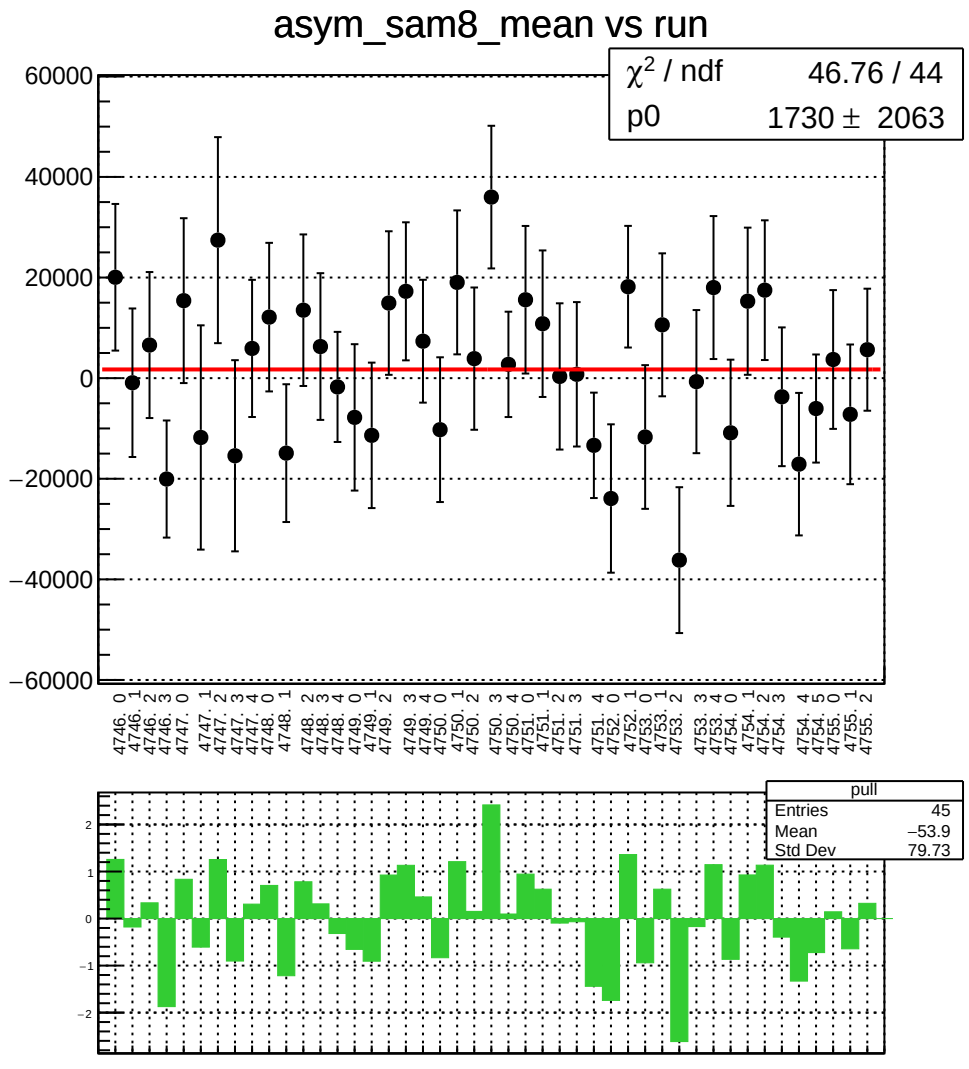

pull1D
Entries 45
Mean 0.01943
Std Dev 0.9575
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

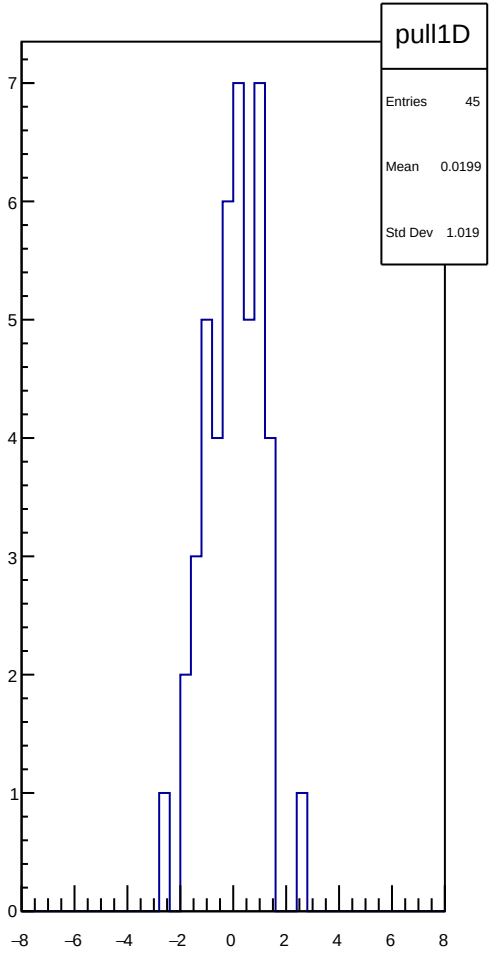

asym_sam6_rms vs run
χ² / ndf 8947 / 44
p0 2204 ± 2.308
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

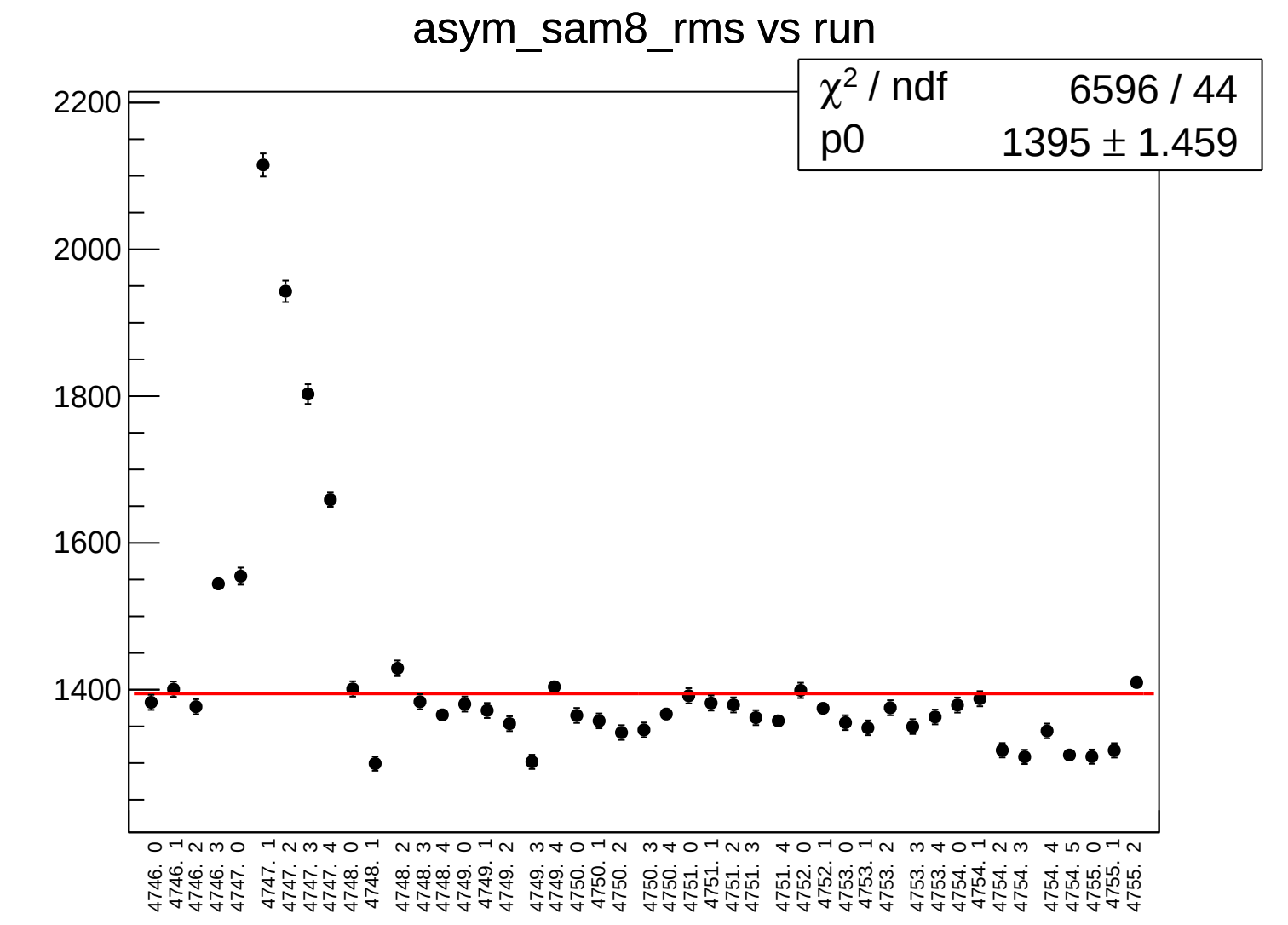

asym_sam7_mean vs run
χ² / ndf 45.49 / 44
p0 704.6 ± 2620
60000
40000
20000
0
−20000
−40000
−60000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −71.14
Std Dev 94.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

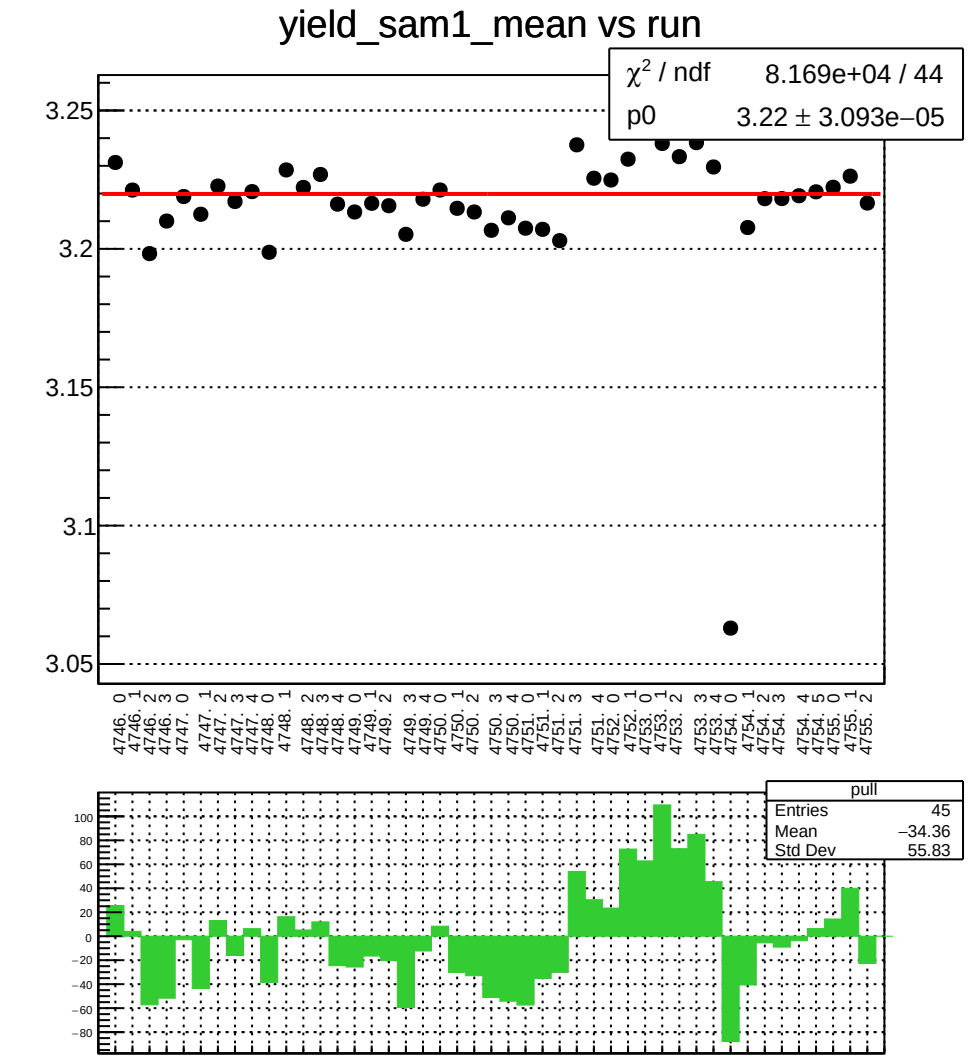

pull1D
Entries 45
Mean 0.01896
Std Dev 1.005
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

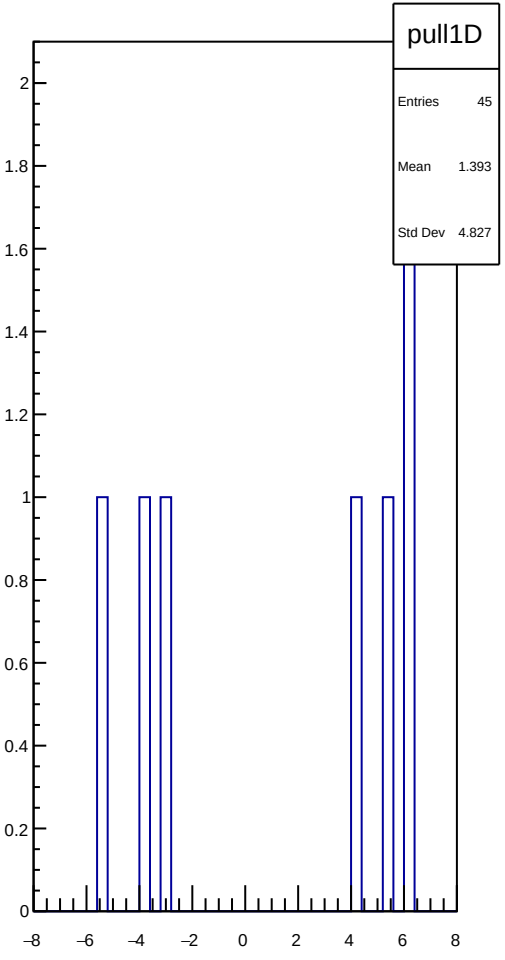

asym_sam7_rms vs run
χ^2 / ndf 8691 / 44
p0 1770 ± 1.853
3000
2800
2600
2400
2200
2000
1800
1600
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

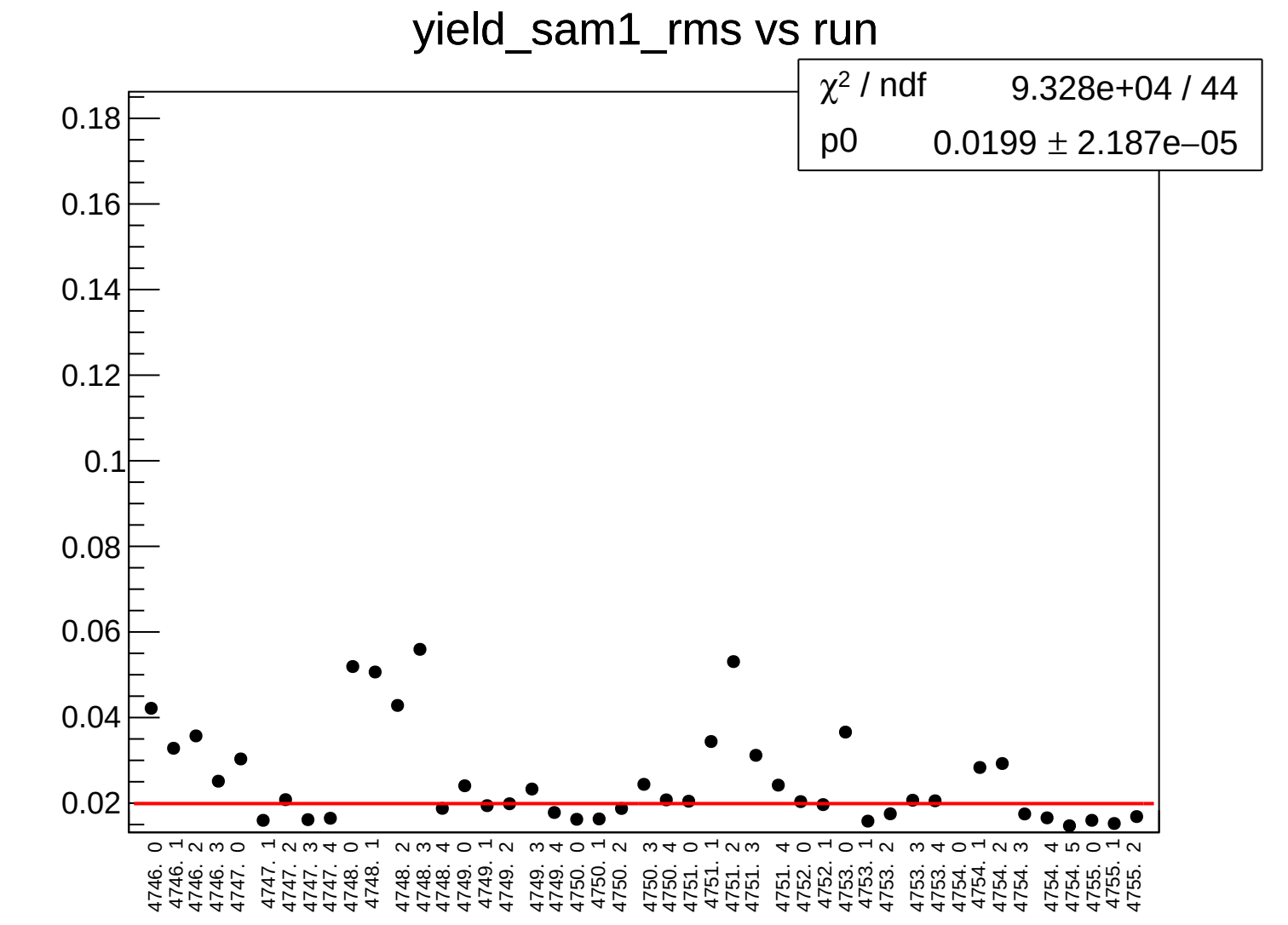

asym_sam8_mean vs run
χ² / ndf 46.76 / 44
p0 1730 ± 2063
60000
40000
20000
0
−20000
−40000
−60000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −53.9
Std Dev 79.73
2
1
0
−1
−2

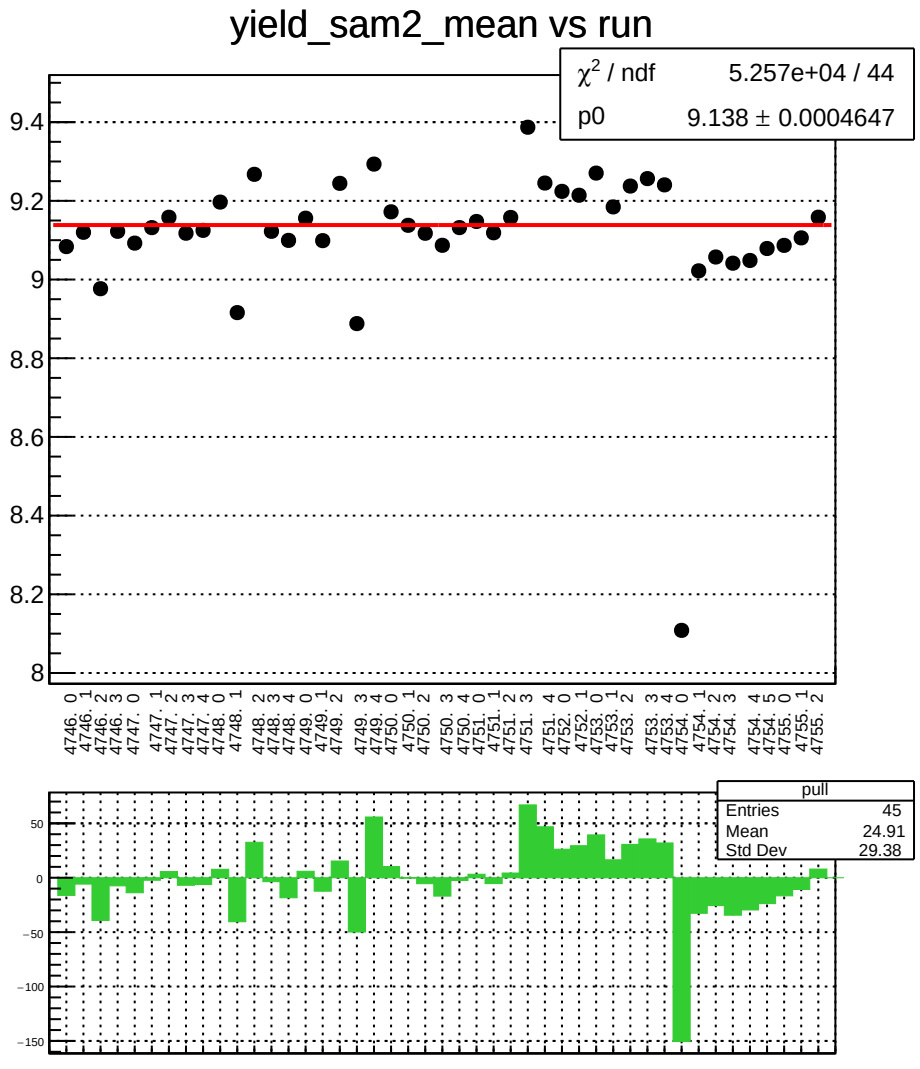

pull1D
Entries 45
Mean 0.0199
Std Dev 1.019
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

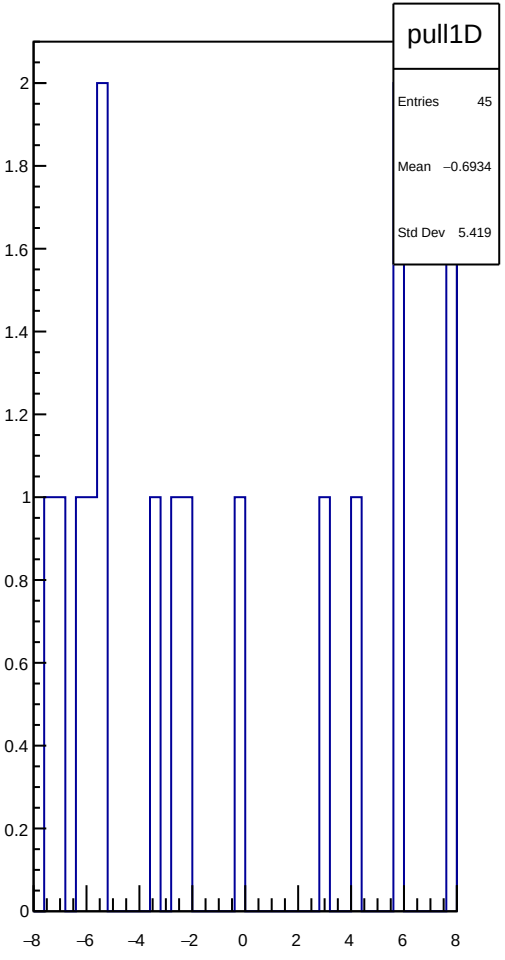

asym_sam8_rms vs run
χ^2 / ndf 6596 / 44
p0 1395 ± 1.459
2200
2000
1800
1600
1400
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

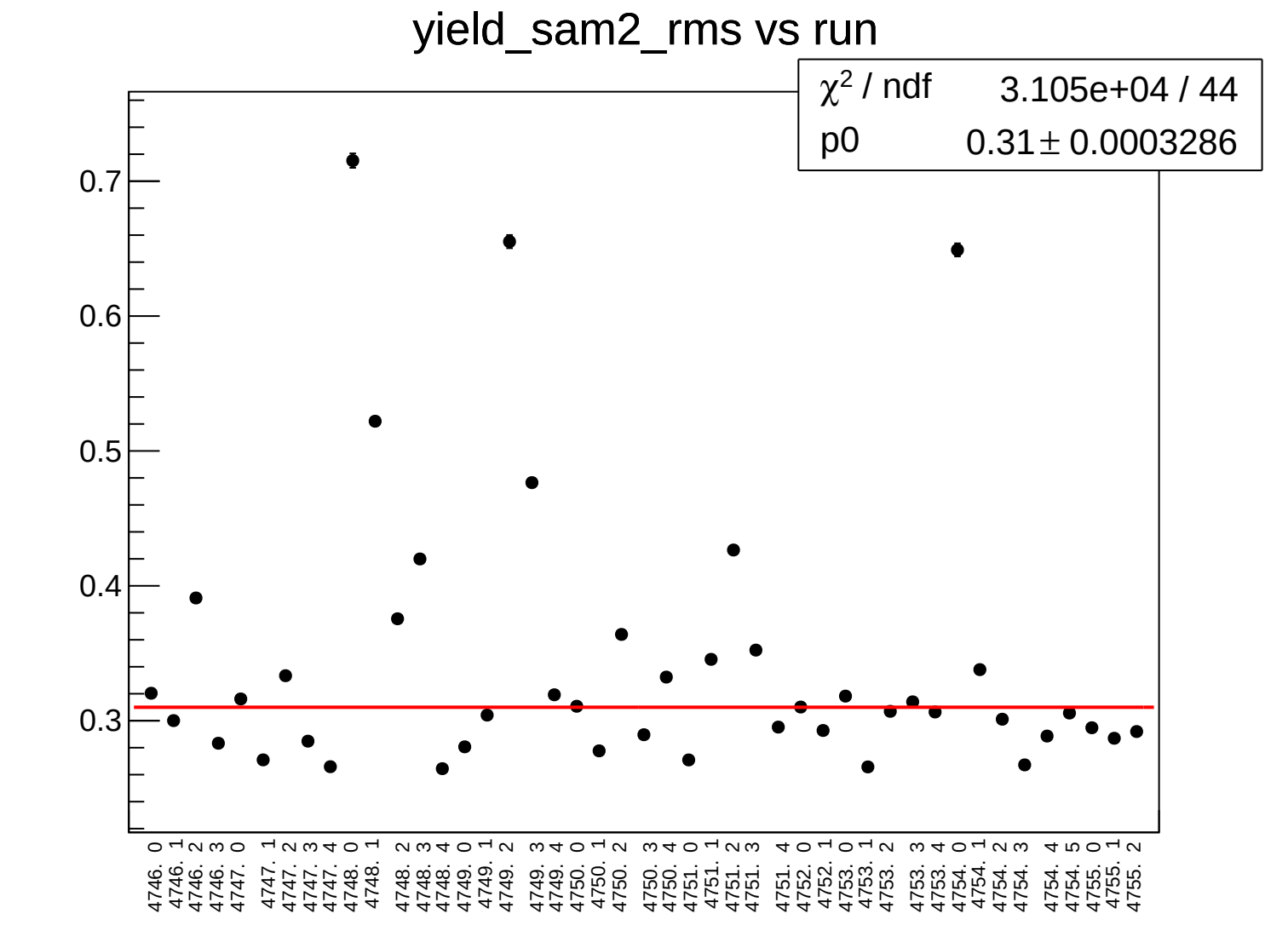

yield_sam1_mean vs run
χ² / ndf 8.169e+04 / 44
p0 3.22 ± 3.093e−05
3.25
3.2
3.15
3.1
3.05
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −34.36
Std Dev 55.83
100
80
60
40
20
0
−20
−40
−60
−80

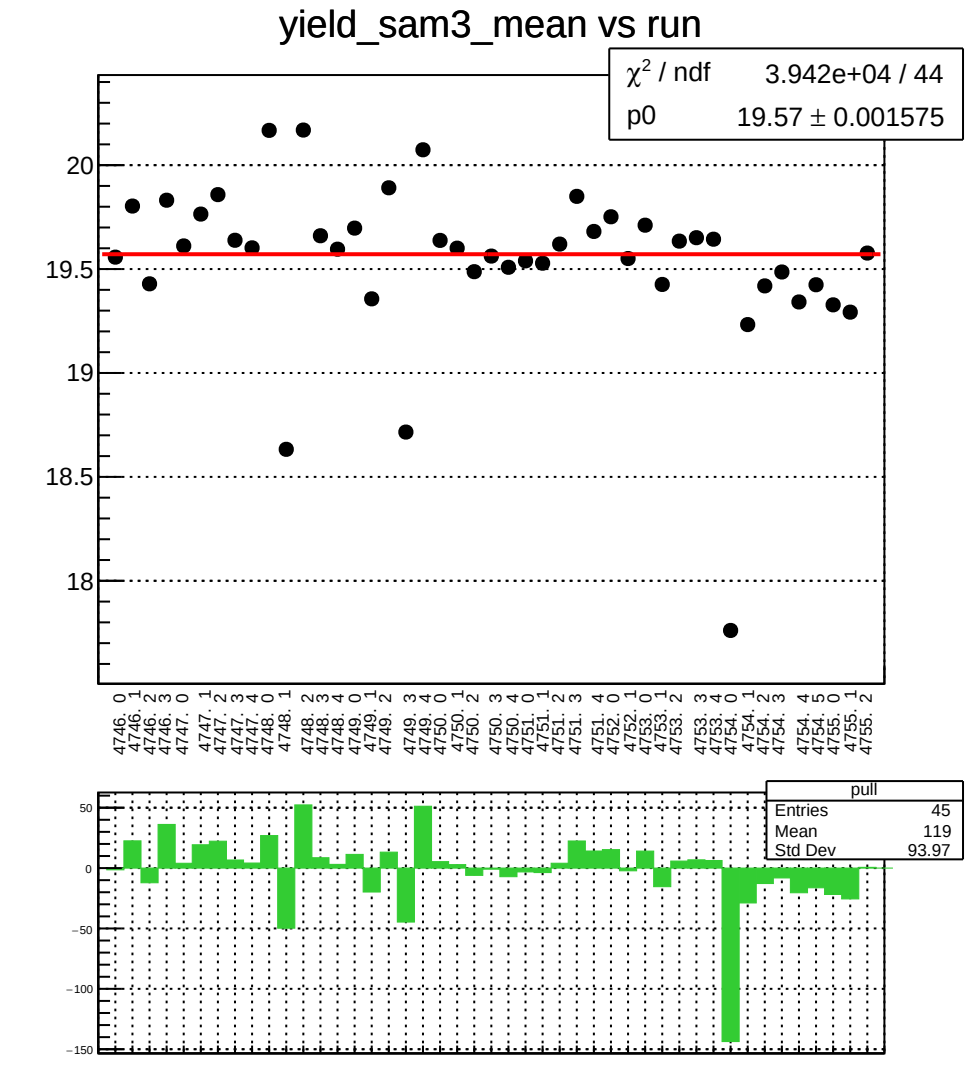

pull1D
Entries 45
Mean 1.393
Std Dev 4.827
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

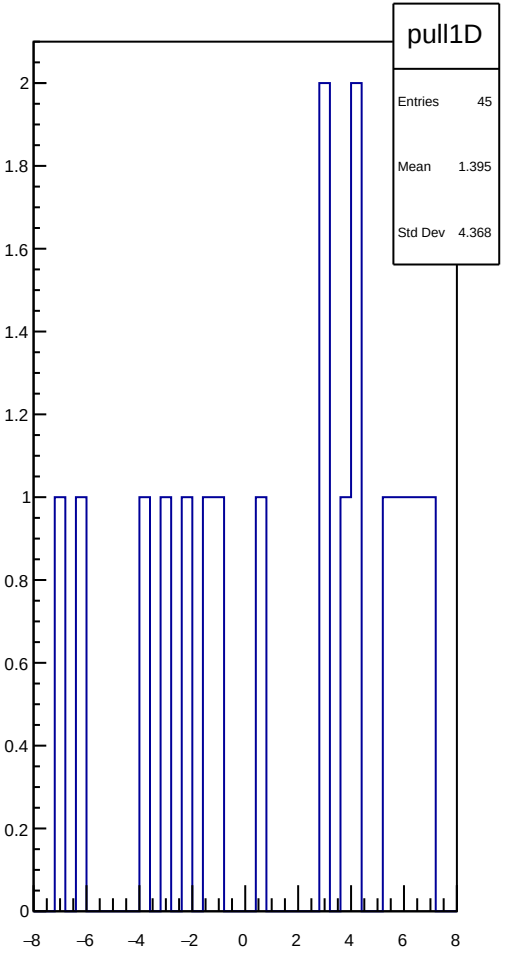

yield_sam1_rms vs run
χ² / ndf 9.328e+04 / 44
p0 0.0199 ± 2.187e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

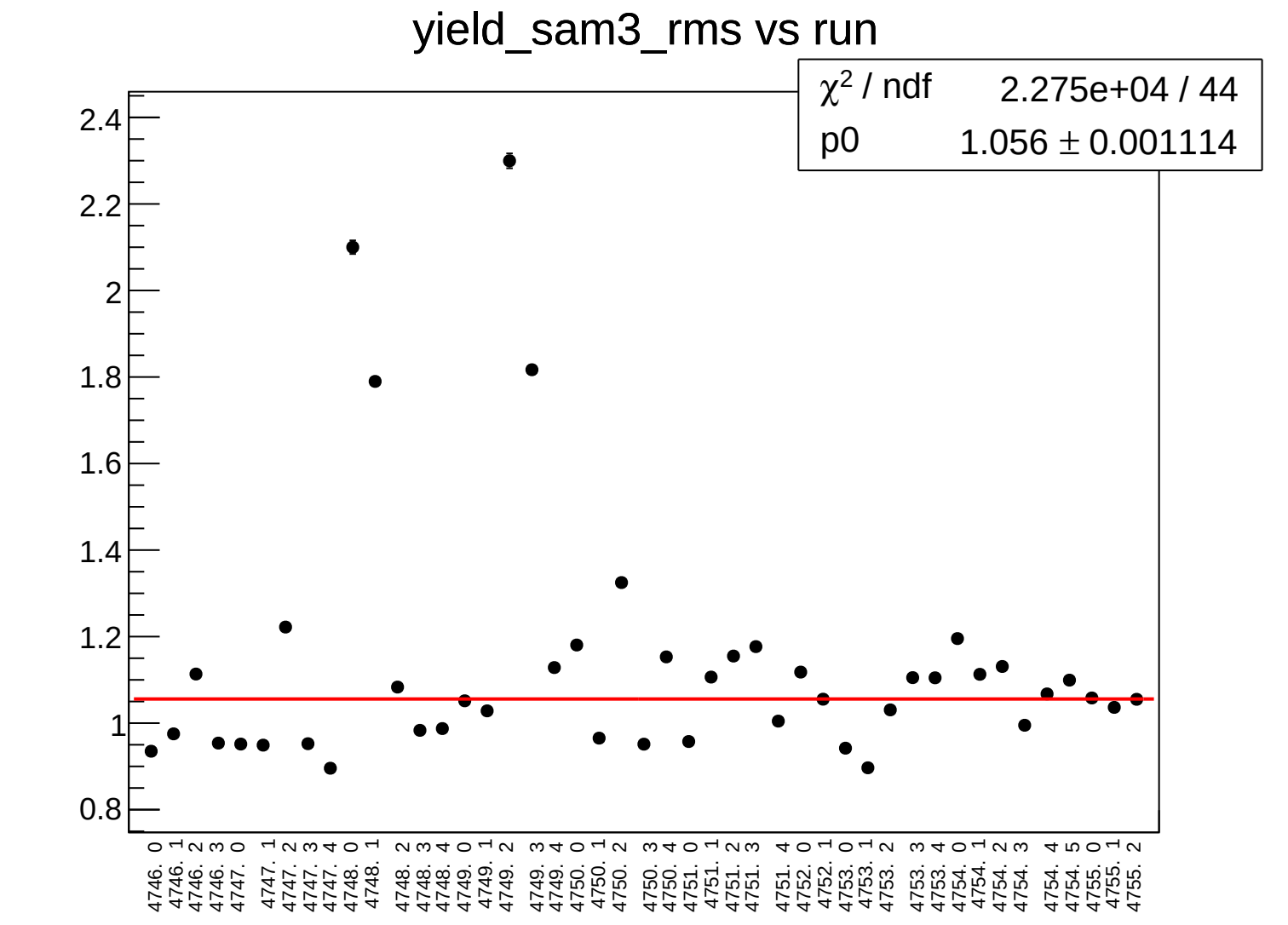

yield_sam2_mean vs run
χ² / ndf 5.257e+04 / 44
p0 9.138 ± 0.0004647
9.4
9.2
9
8.8
8.6
8.4
8.2
8
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 24.91
Std Dev 29.38
50
0
−50
−100
−150

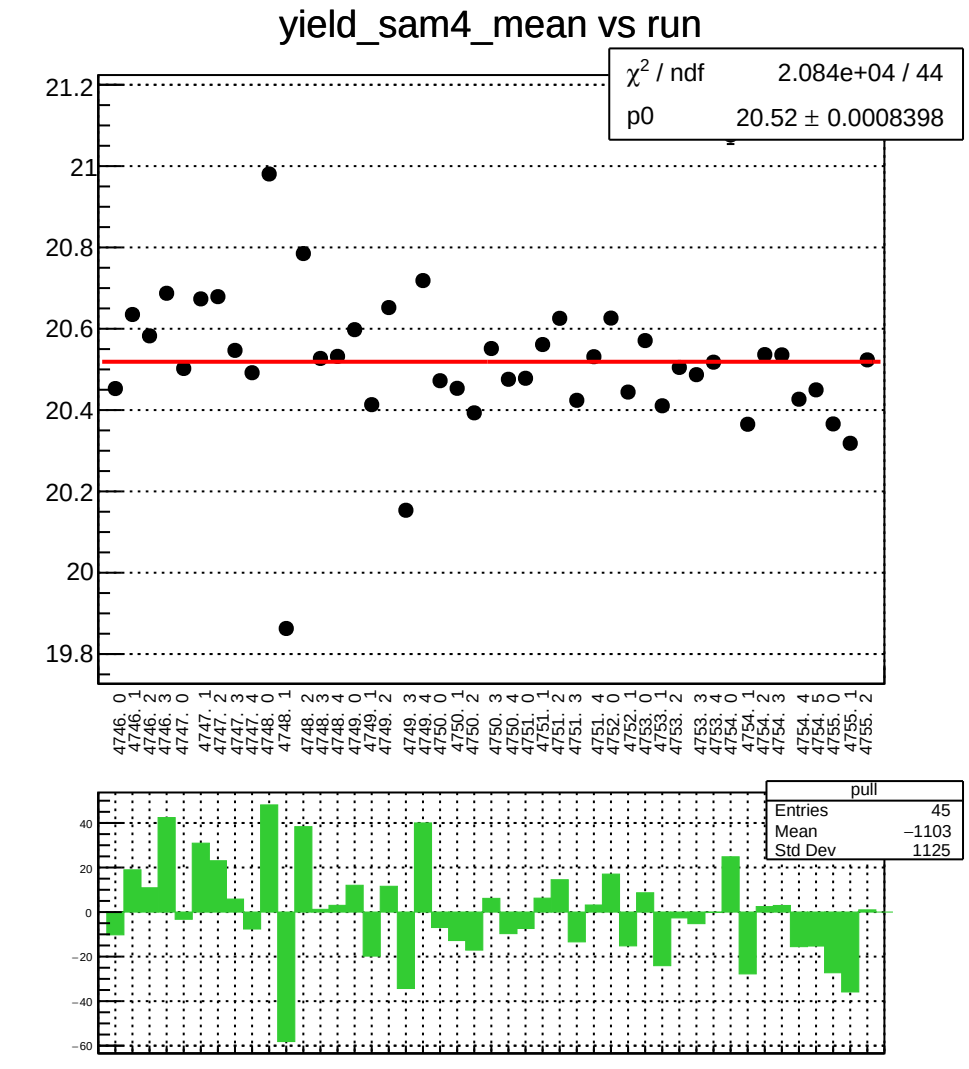

pull1D
Entries 45
Mean −0.6934
Std Dev 5.419
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

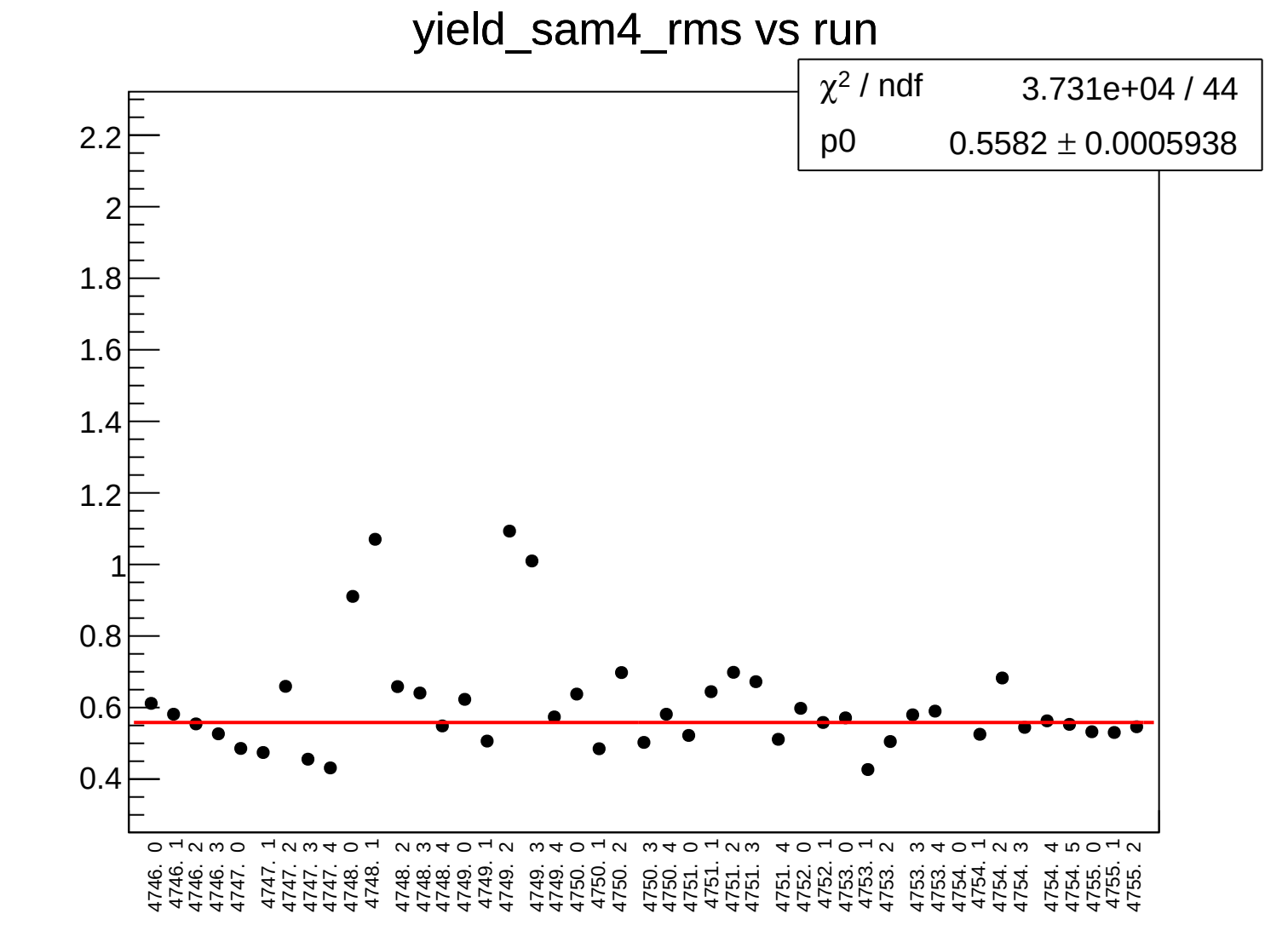

yield_sam2_rms vs run
χ² / ndf 3.105e+04 / 44
p0 0.31 ± 0.0003286
0.7
0.6
0.5
0.4
0.3
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

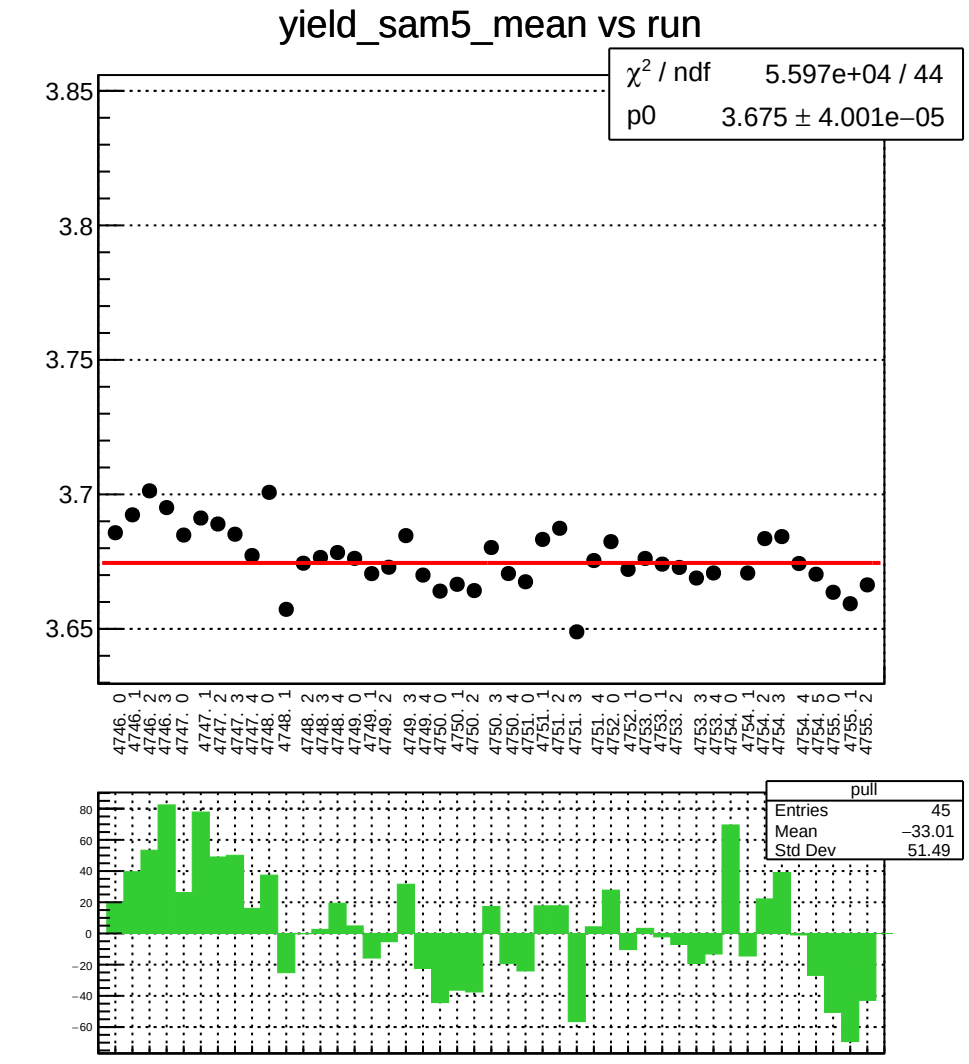

yield_sam3_mean vs run
χ² / ndf 3.942e+04 / 44
p0 19.57 ± 0.001575
20
19.5
19
18.5
18
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 119
Std Dev 93.97
50
0
−50
−100
−150

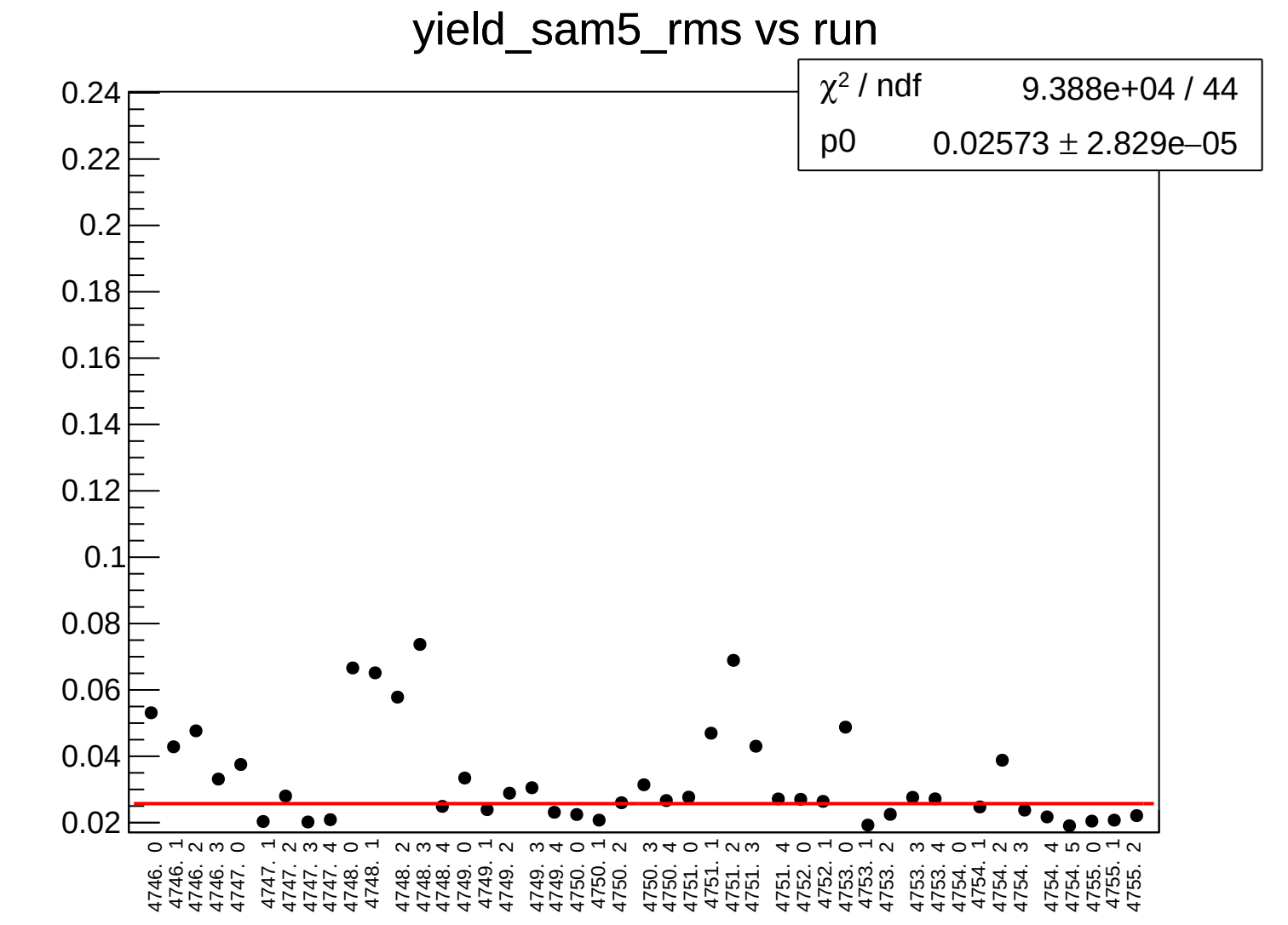

pull1D
Entries 45
Mean 1.395
Std Dev 4.368
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

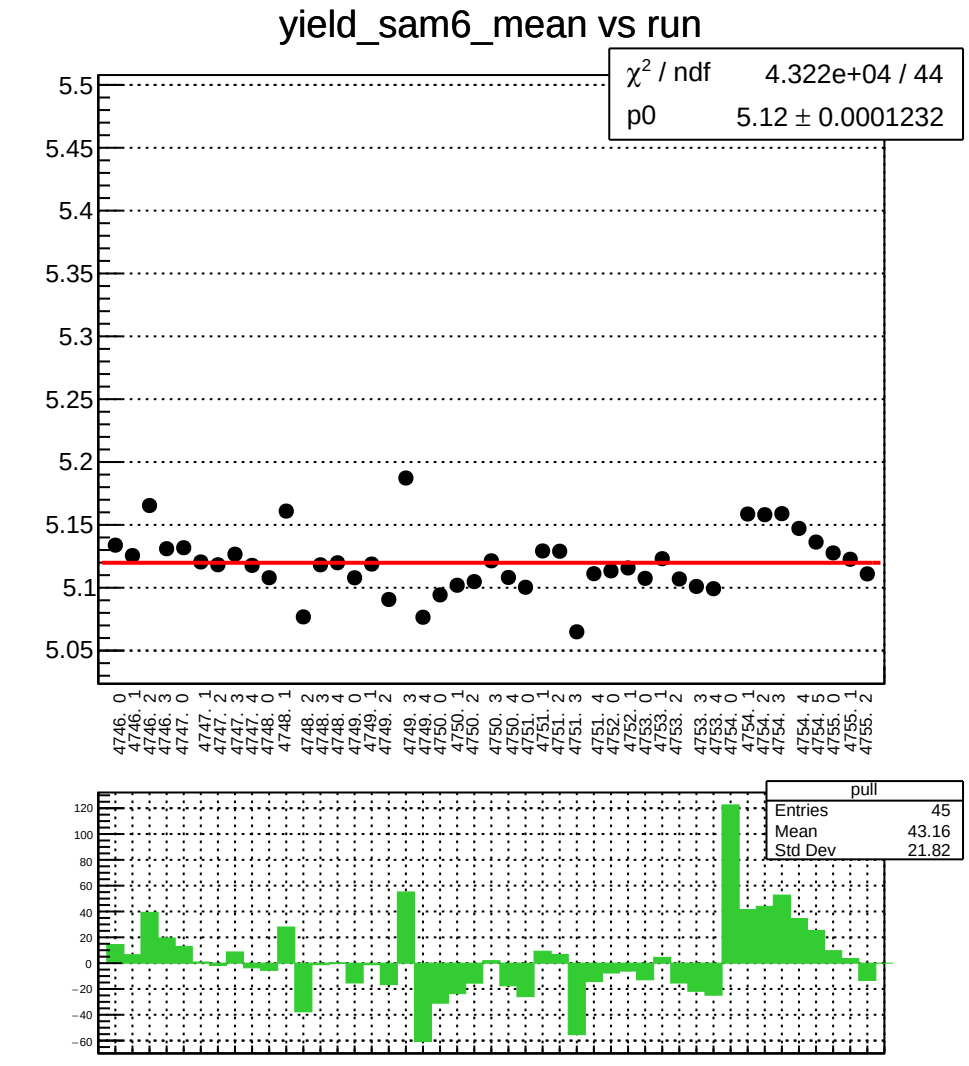

yield_sam3_rms vs run
χ² / ndf 2.275e+04 / 44
p0 1.056 ± 0.001114
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

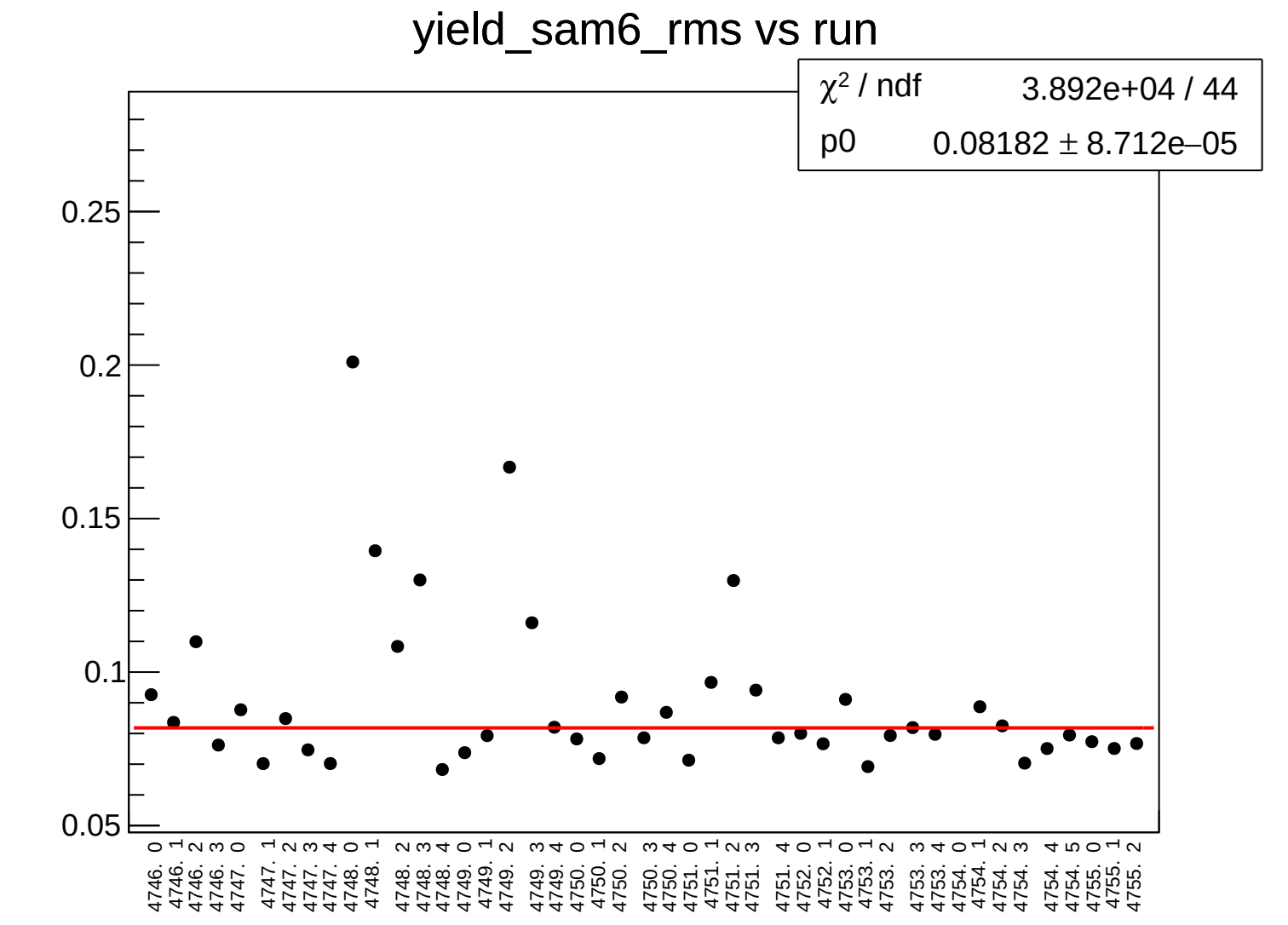

yield_sam4_mean vs run
χ² / ndf 2.084e+04 / 44
p0 20.52 ± 0.0008398
21.2
21
20.8
20.6
20.4
20.2
20
19.8
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −1103
Std Dev 1125
40
20
0
−20
−40
−60
pull1D
Entries 45
Mean −0.07127
Std Dev 4.687
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

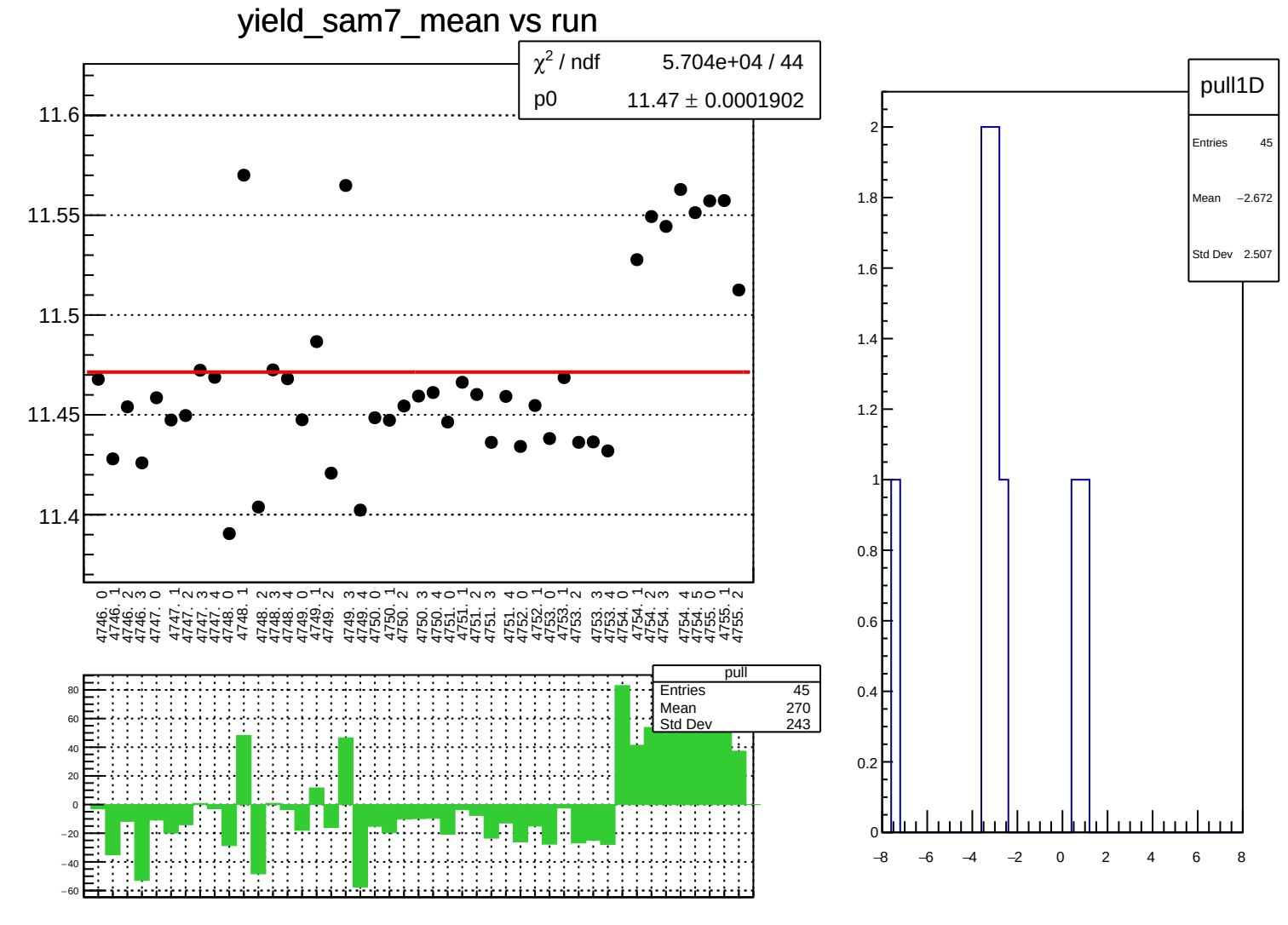

yield_sam4_rms vs run
χ² / ndf 3.731e+04 / 44
p0 0.5582 ± 0.0005938
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

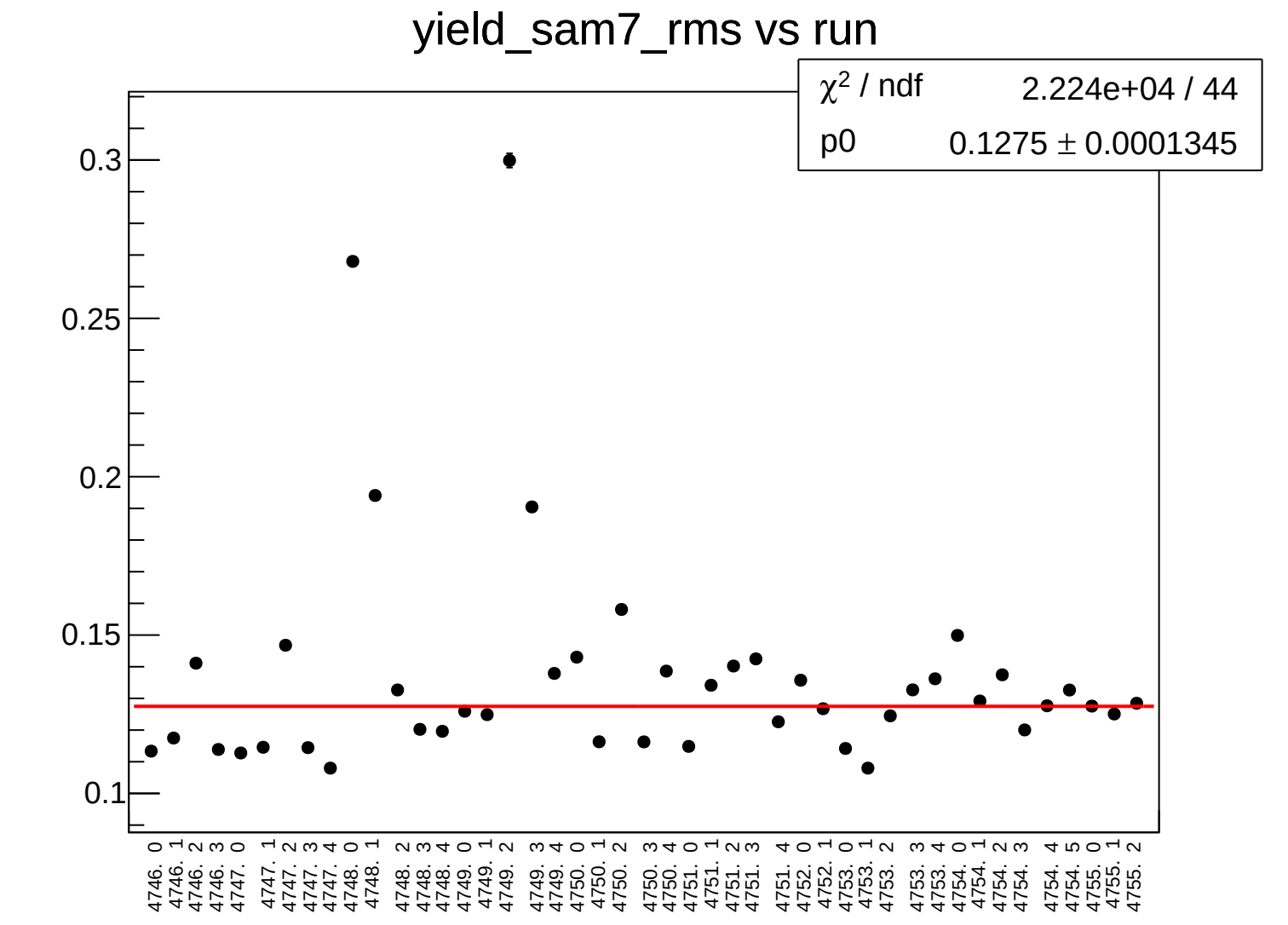

yield_sam5_mean vs run
χ² / ndf 5.597e+04 / 44
p0 3.675 ± 4.001e−05
3.85
3.8
3.75
3.7
3.65
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −33.01
Std Dev 51.49
80
60
40
20
0
−20
−40
−60
pull1D
Entries 45
Mean −0.07495
Std Dev 3.972
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

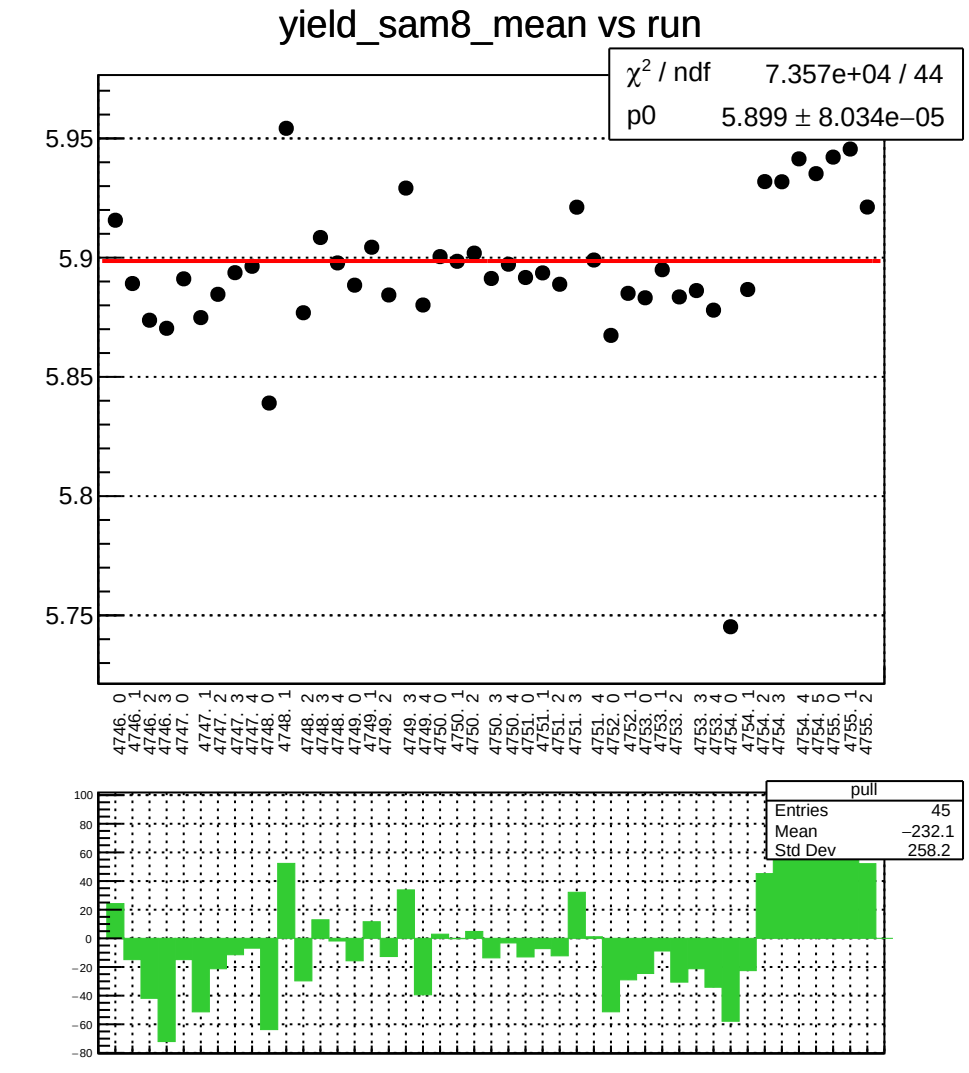

yield_sam5_rms vs run
χ² / ndf 9.388e+04 / 44
p0 0.02573 ± 2.829e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

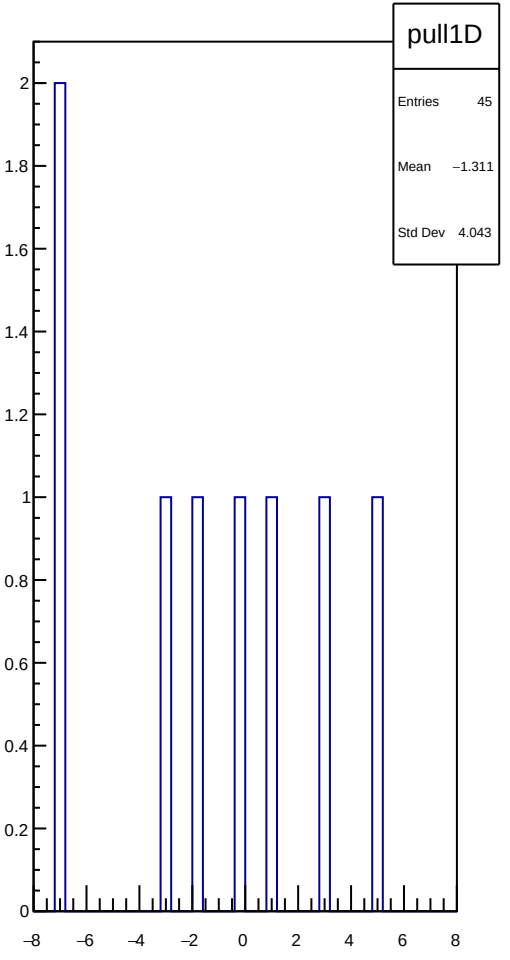

yield_sam6_mean vs run
χ² / ndf 4.322e+04 / 44
p0 5.12 ± 0.0001232
5.5
5.45
5.4
5.35
5.3
5.25
5.2
5.15
5.1
5.05
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 43.16
Std Dev 21.82
120
100
80
60
40
20
0
−20
−40
−60
pull1D
Entries 45
Mean −0.2246
Std Dev 4.39
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

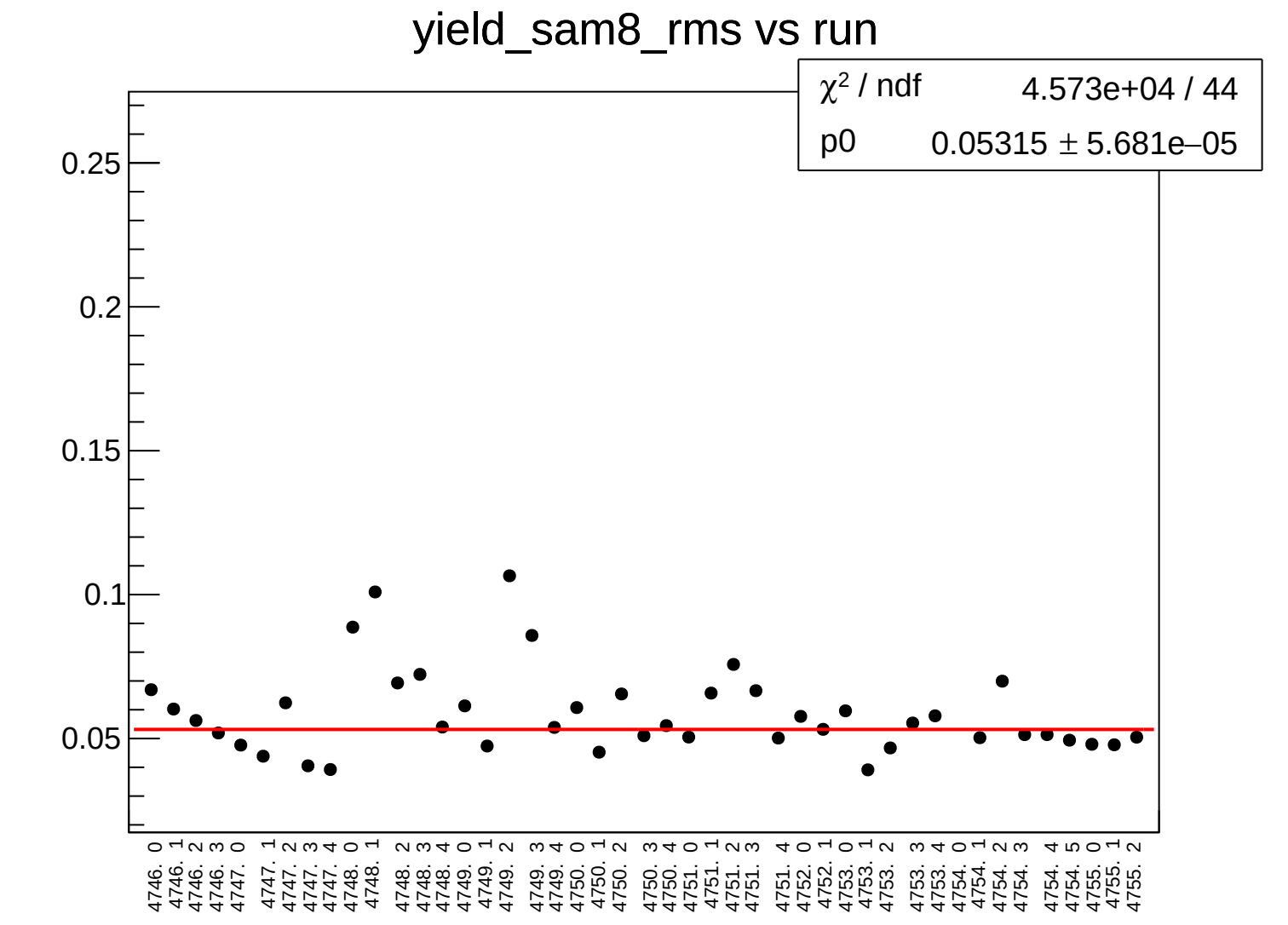

yield_sam6_rms vs run
χ² / ndf 3.892e+04 / 44
p0 0.08182 ± 8.712e–05
0.25
0.2
0.15
0.1
0.05
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

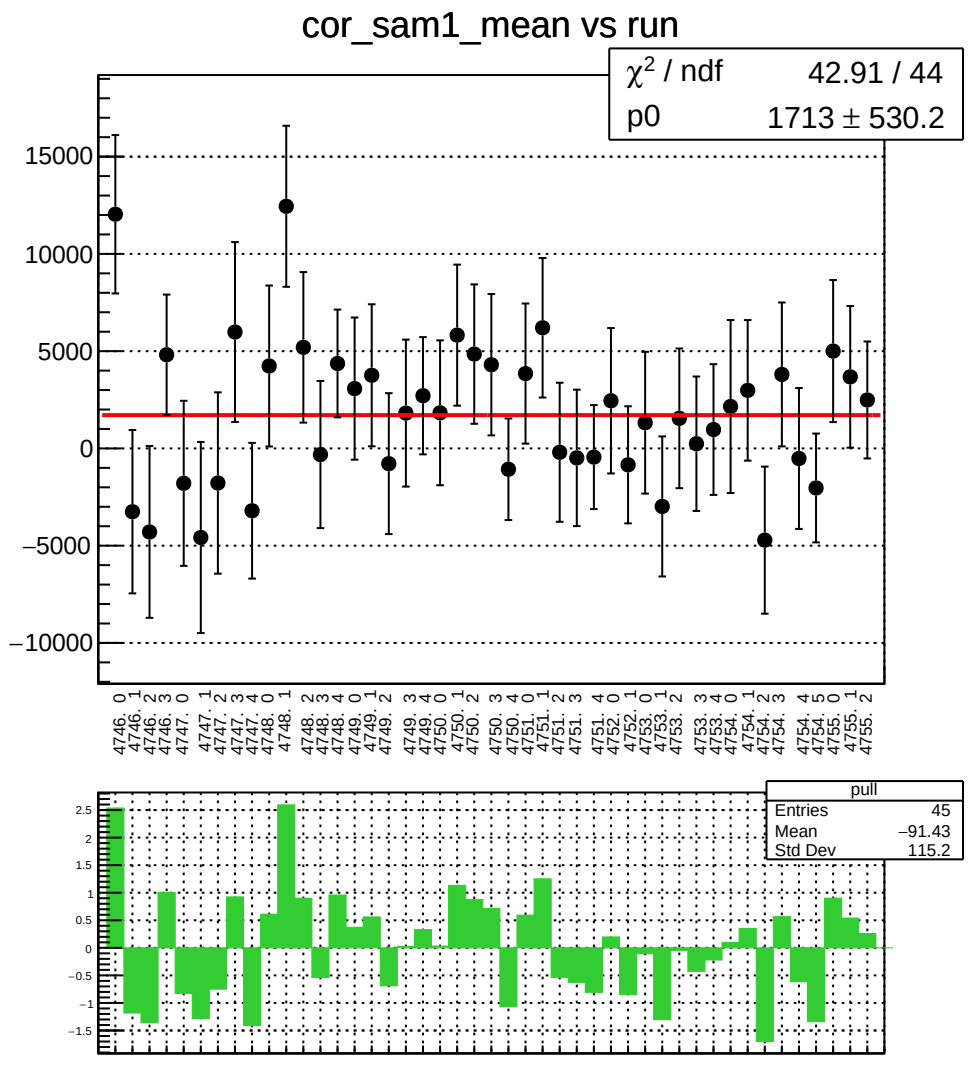

yield_sam7_mean vs run
χ² / ndf 5.704e+04 / 44
p0 11.47 ± 0.0001902
11.6
11.55
11.5
11.45
11.4
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 270
Std Dev 243
80
60
40
20
0
−20
−40
−60
pull1D
Entries 45
Mean −2.672
Std Dev 2.507
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

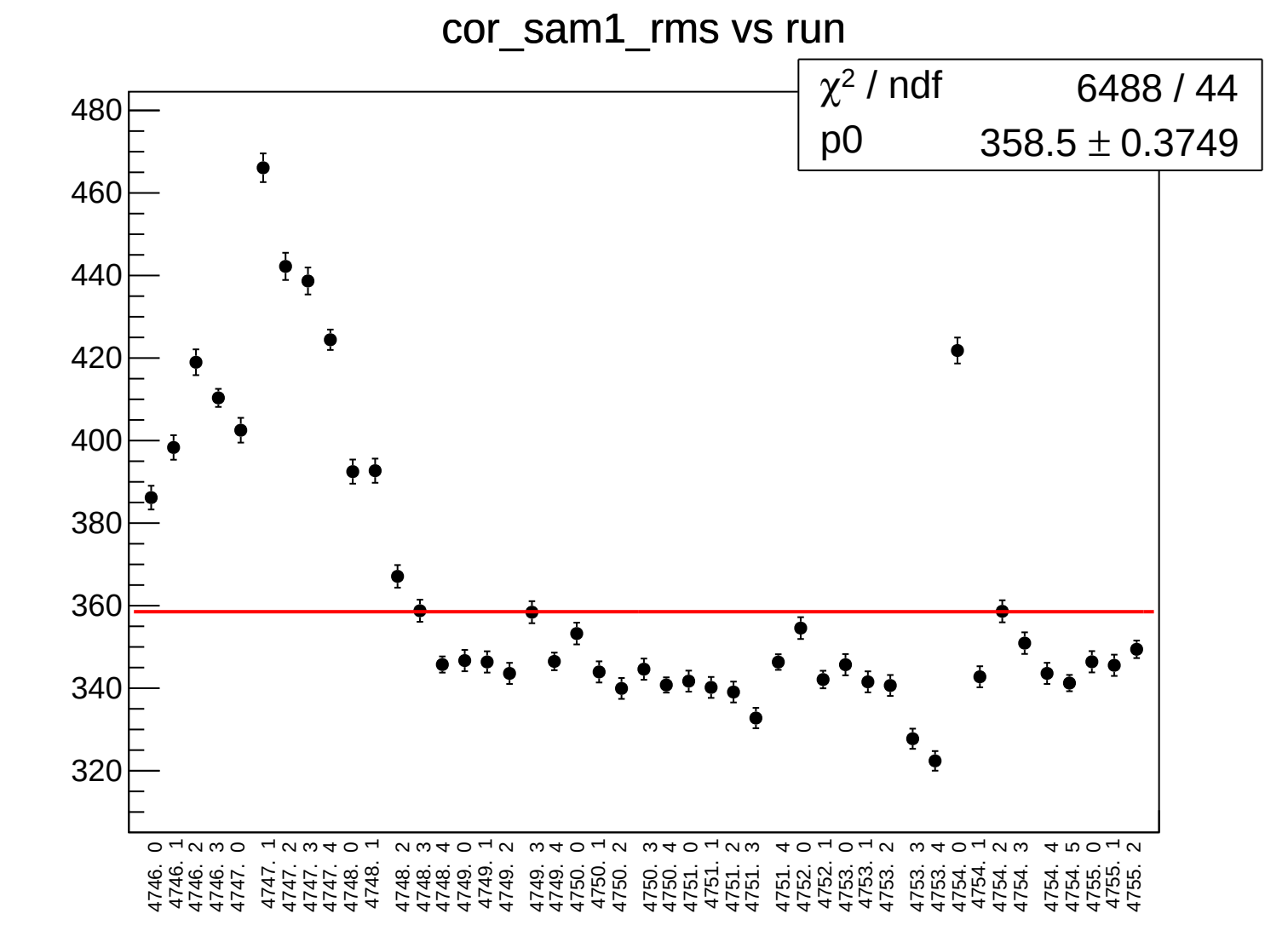

yield_sam7_rms vs run
χ² / ndf 2.224e+04 / 44
p0 0.1275 ± 0.0001345
0.3
0.25
0.2
0.15
0.1
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

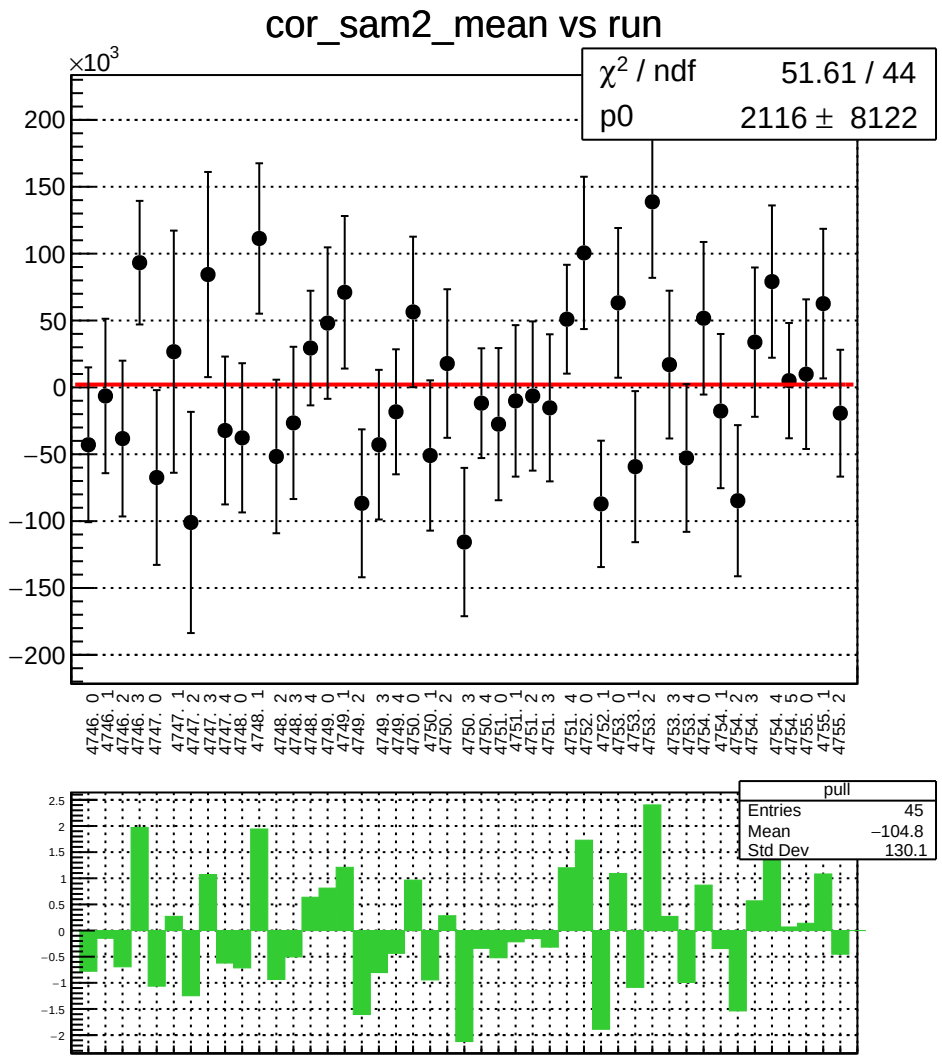

yield_sam8_mean vs run
χ² / ndf 7.357e+04 / 44
p0 5.899 ± 8.034e−05
5.95
5.9
5.85
5.8
5.75
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −232.1
Std Dev 258.2
100
80
60
40
20
0
−20
−40
−60
−80

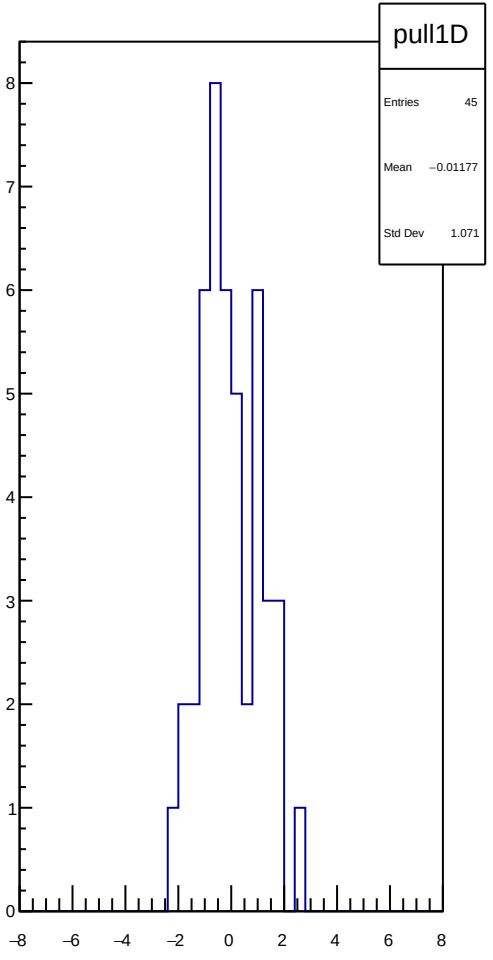

pull1D
Entries 45
Mean −1.311
Std Dev 4.043
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

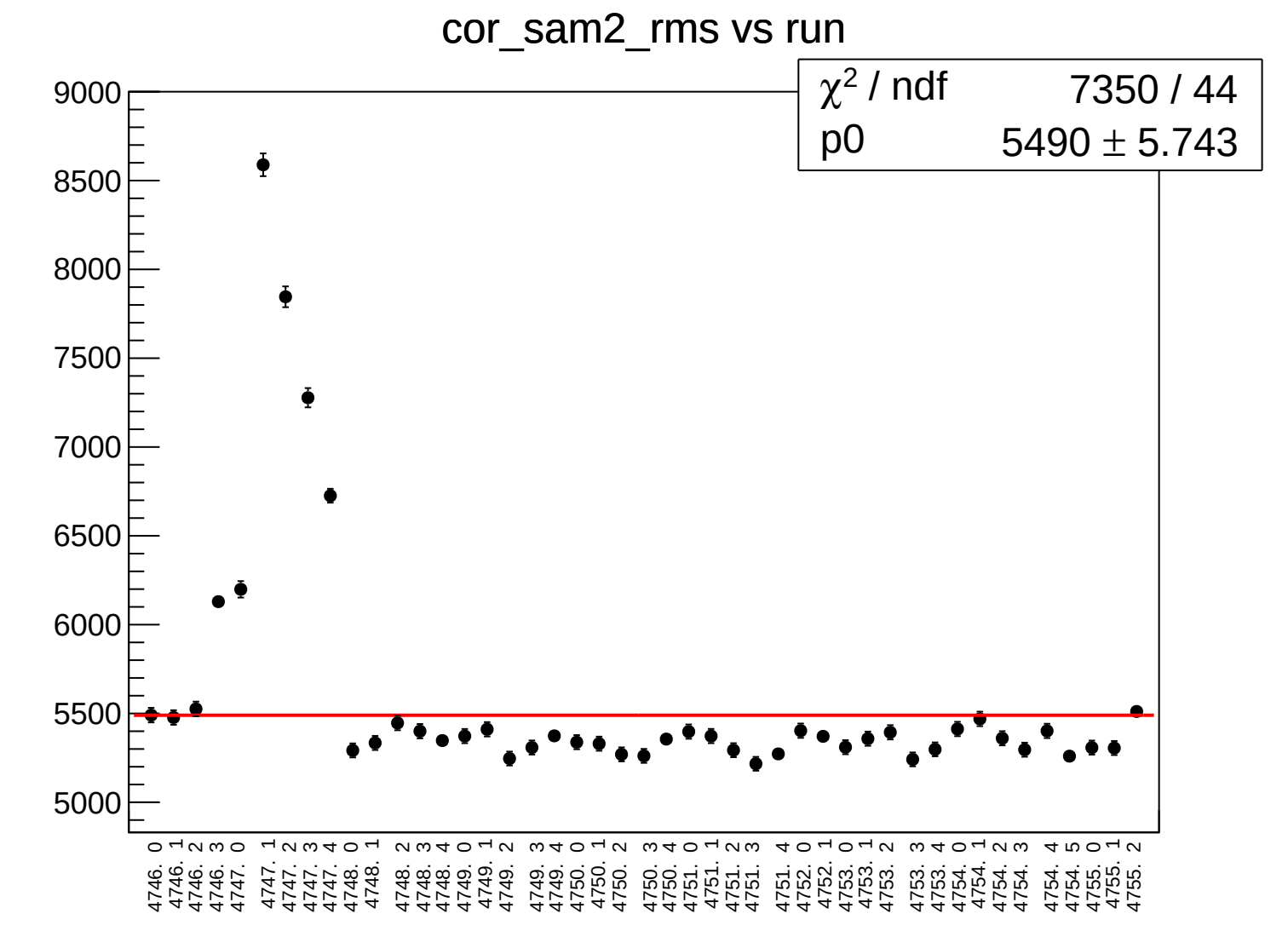

yield_sam8_rms vs run
χ² / ndf 4.573e+04 / 44
p0 0.05315 ± 5.681e–05
0.25
0.2
0.15
0.1
0.05
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

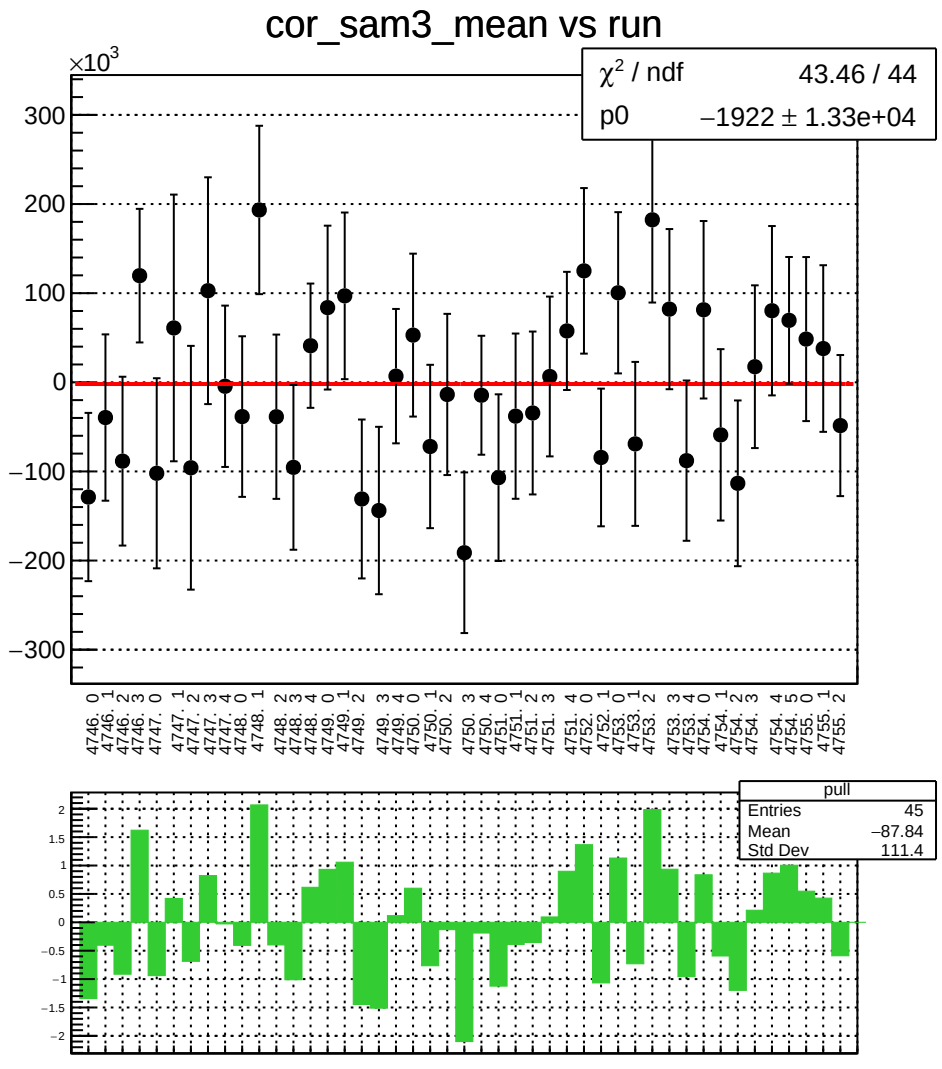

cor_sam1_mean vs run
χ^2 / ndf 42.91 / 44
p0 1713 ± 530.2
15000
10000
5000
0
−5000
−10000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −91.43
Std Dev 115.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01454
Std Dev 0.9764
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

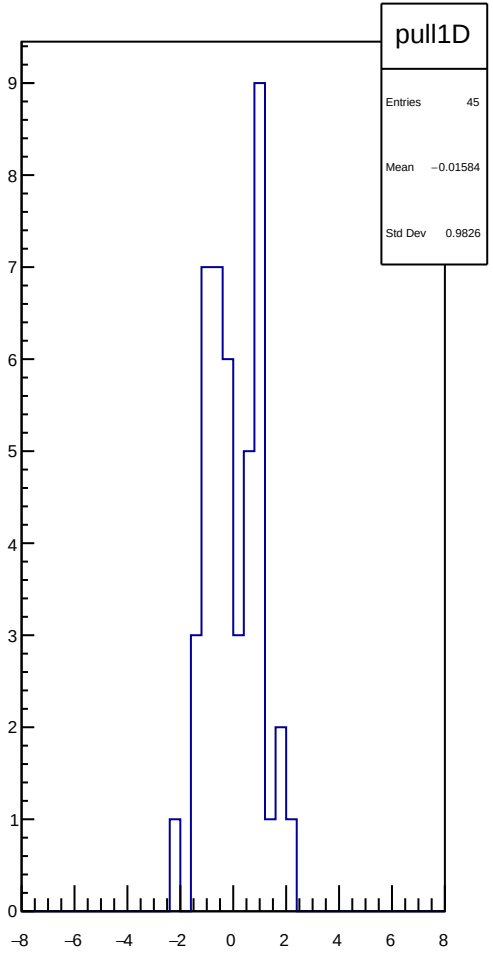

cor_sam1_rms vs run
χ² / ndf 6488 / 44
p0 358.5 ± 0.3749
480
460
440
420
400
380
360
340
320
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

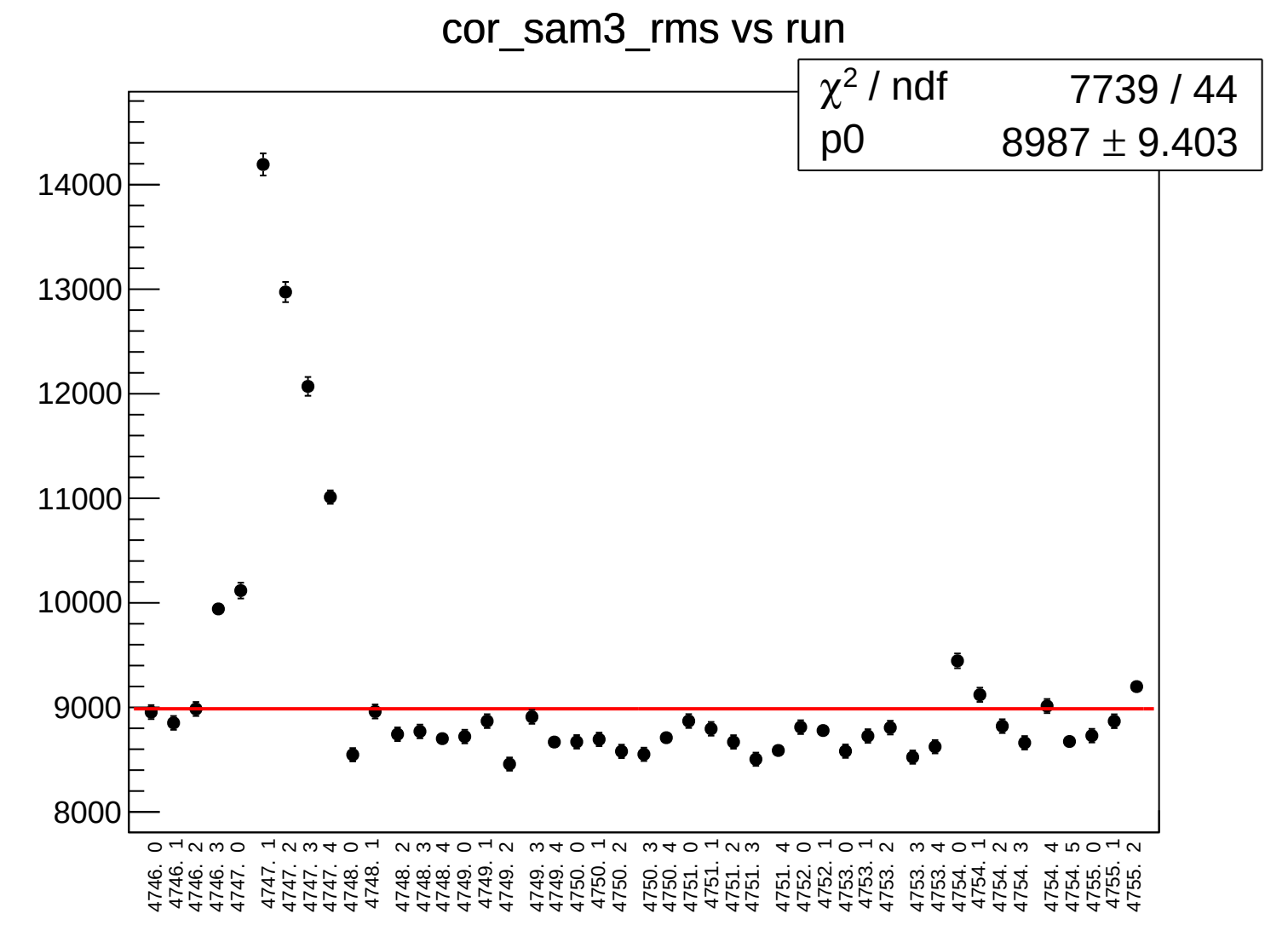

cor_sam2_mean vs run
×10^3
χ^2 / ndf 51.61 / 44
p0 2116 ± 8122
200
150
100
50
0
−50
−100
−150
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −104.8
Std Dev 130.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

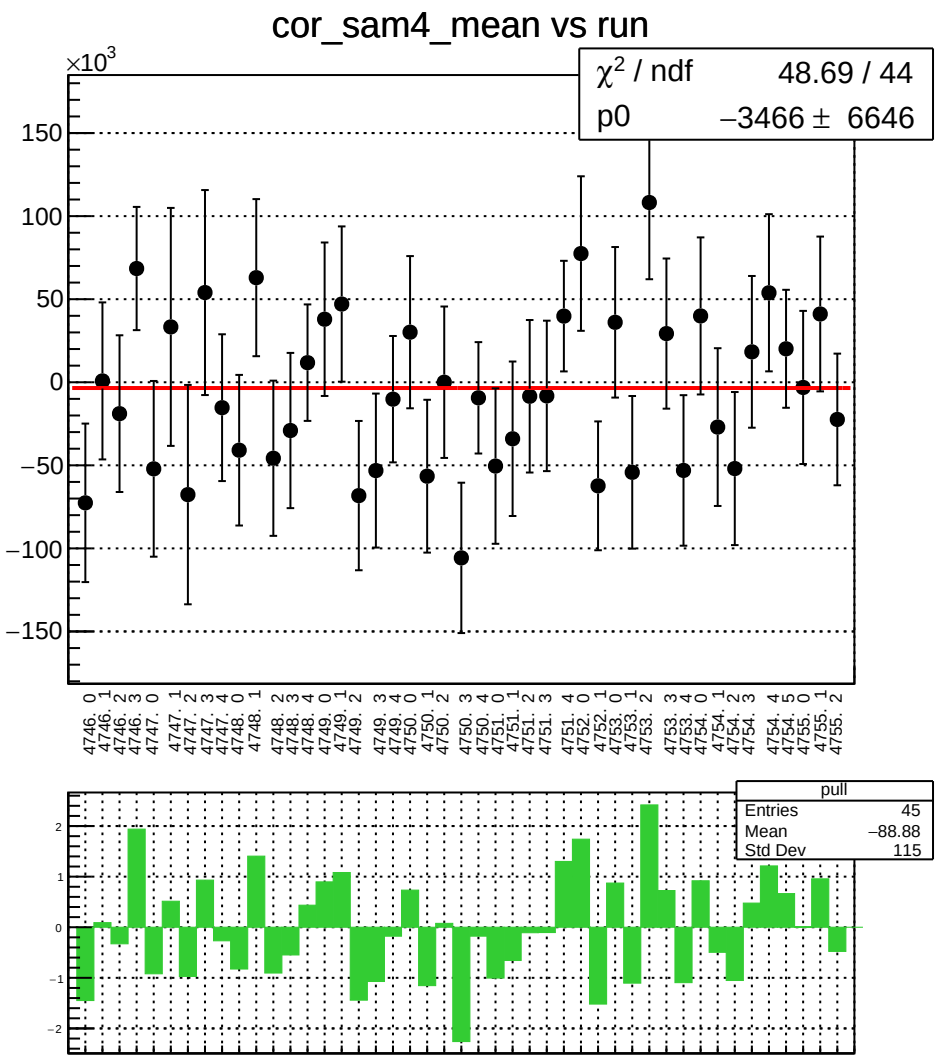

pull1D
Entries 45
Mean −0.01177
Std Dev 1.071
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

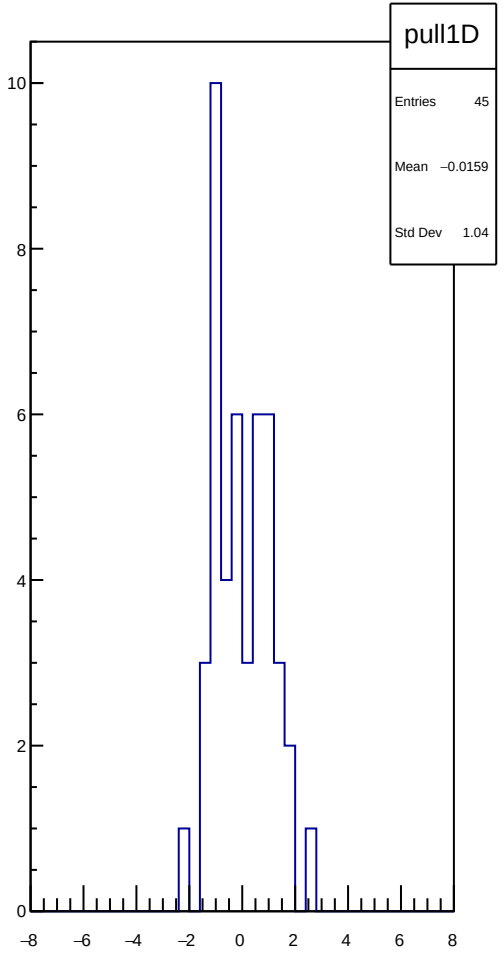

cor_sam2_rms vs run
χ² / ndf 7350 / 44
p0 5490 ± 5.743
9000
8500
8000
7500
7000
6500
6000
5500
5000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

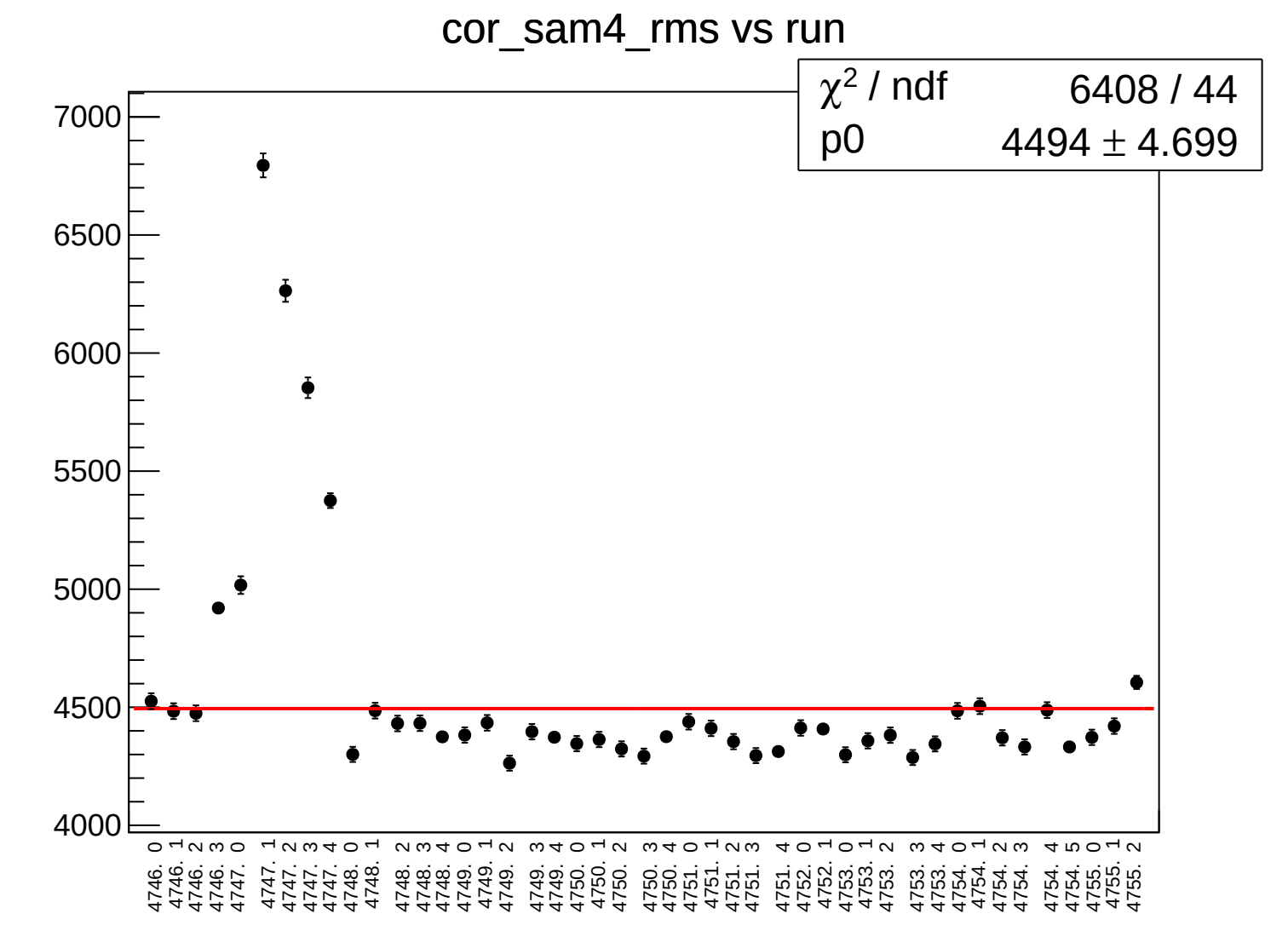

cor_sam3_mean vs run
×10^3
χ² / ndf 43.46 / 44
p0 −1922 ± 1.33e+04
300
200
100
0
−100
−200
−300
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −87.84
Std Dev 111.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

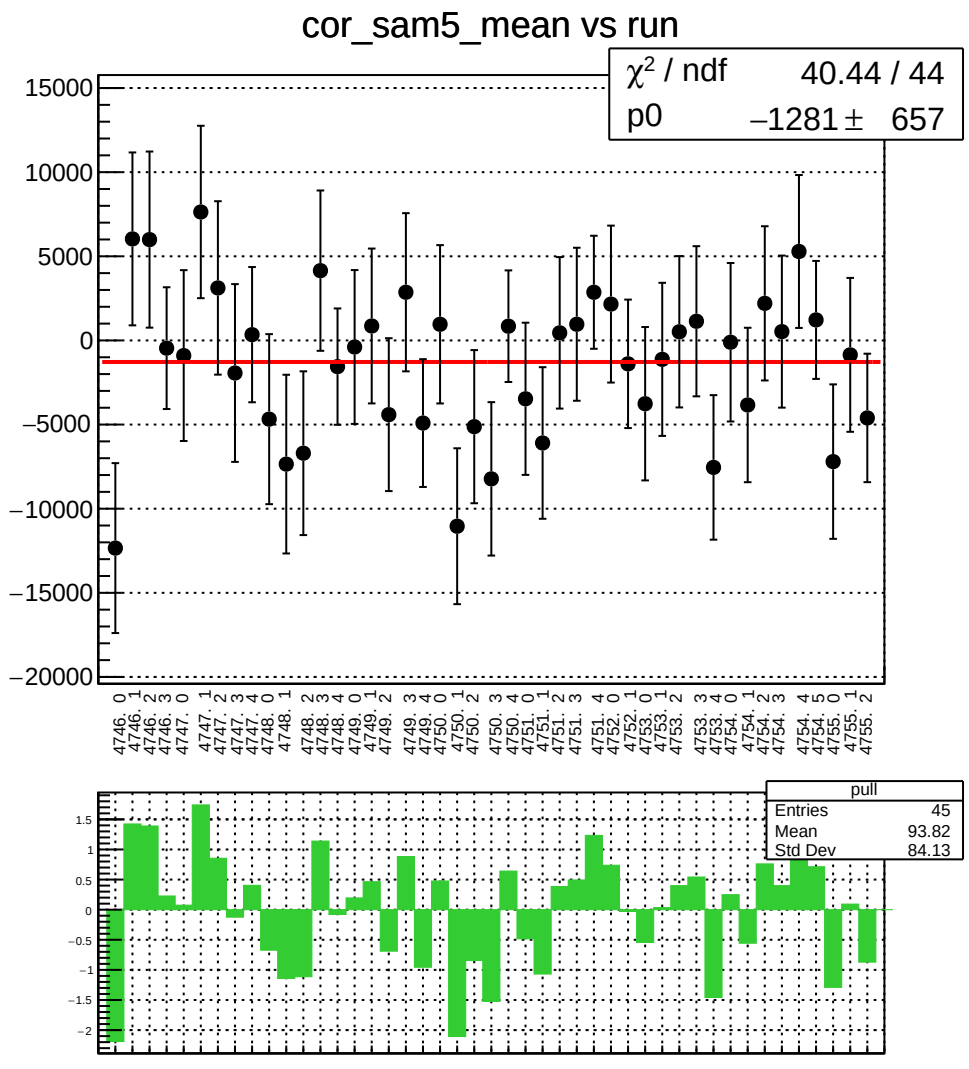

pull1D
Entries 45
Mean −0.01584
Std Dev 0.9826
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

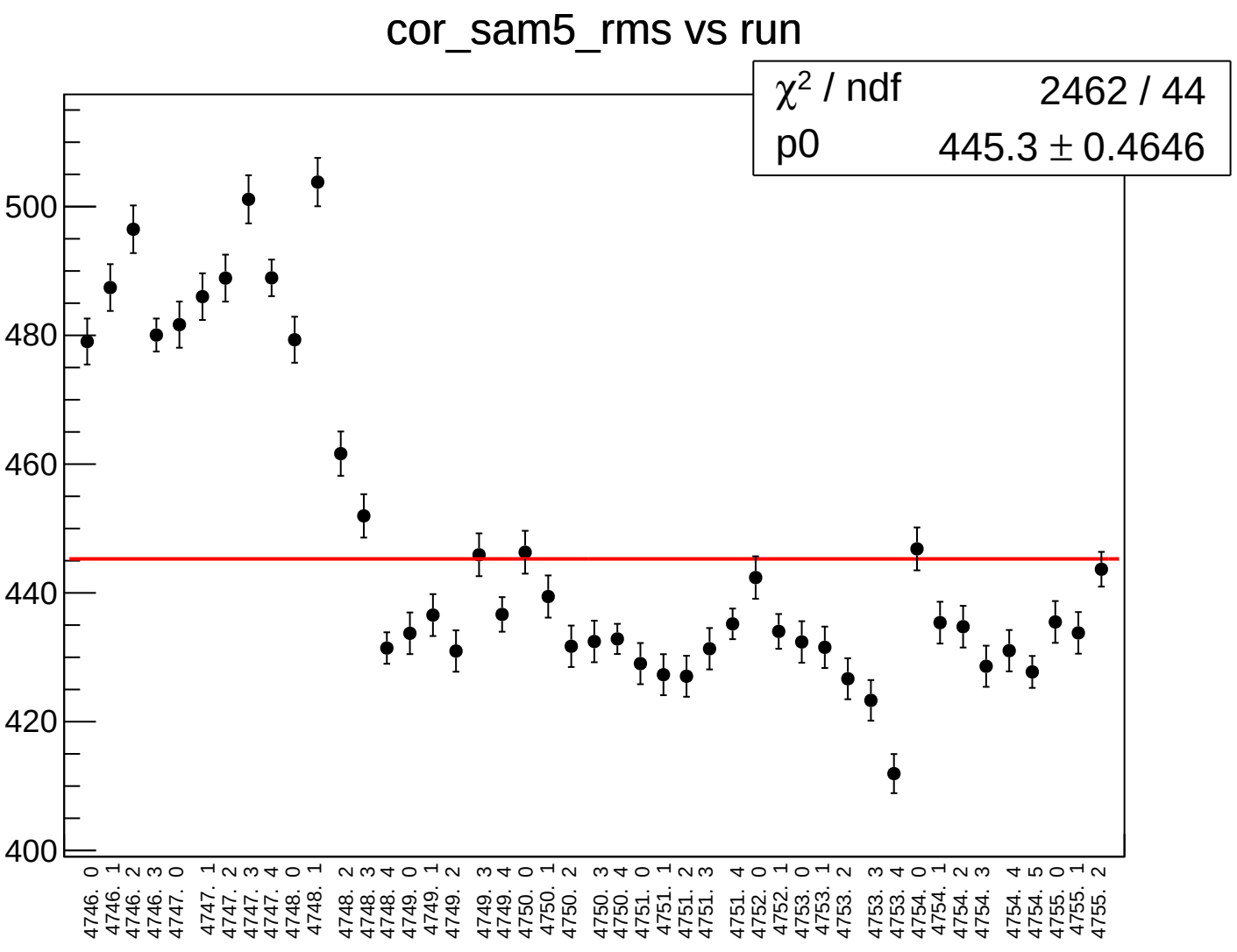

cor_sam3_rms vs run
χ² / ndf 7739 / 44
p0 8987 ± 9.403
14000
13000
12000
11000
10000
9000
8000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

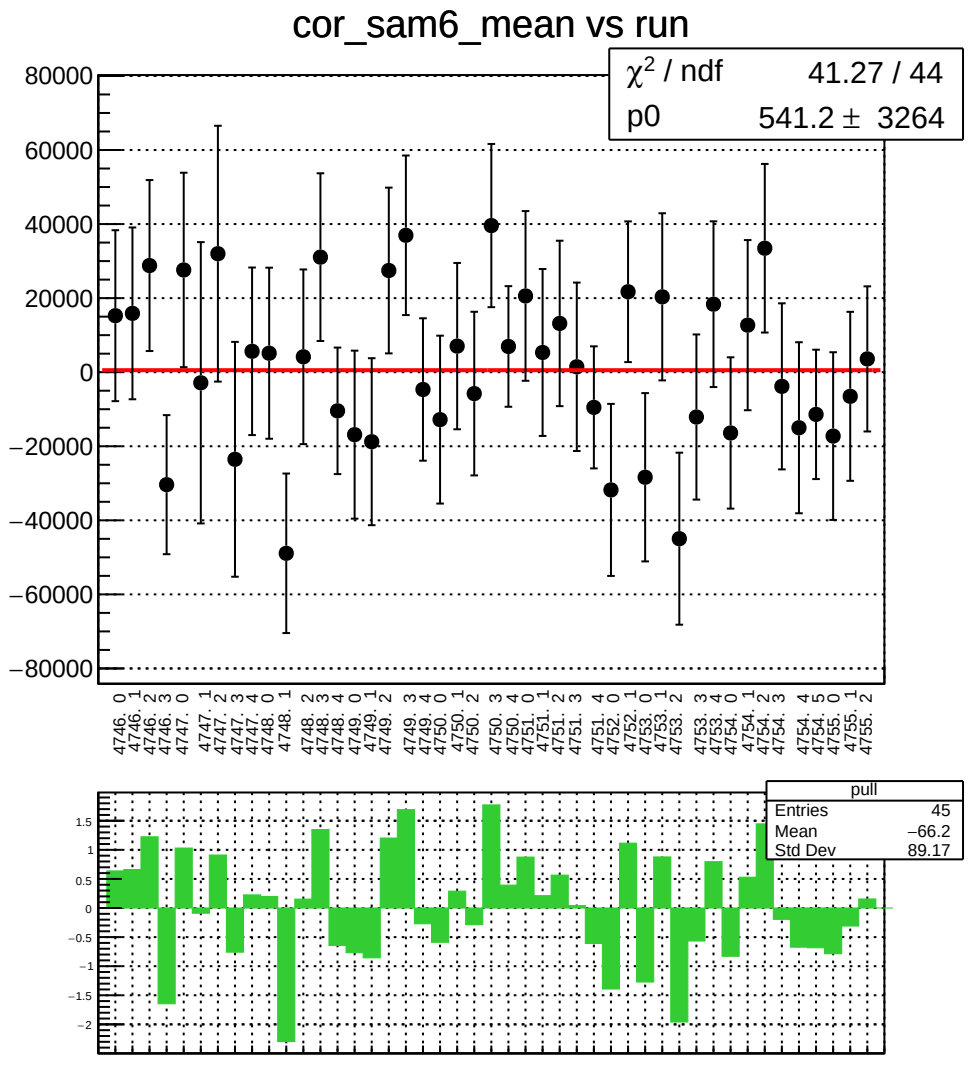

cor_sam4_mean vs run
×10^3
χ² / ndf 48.69 / 44
p0 −3466 ± 6646
150
100
50
0
−50
−100
−150
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −88.88
Std Dev 115
2
1
0
−1
−2

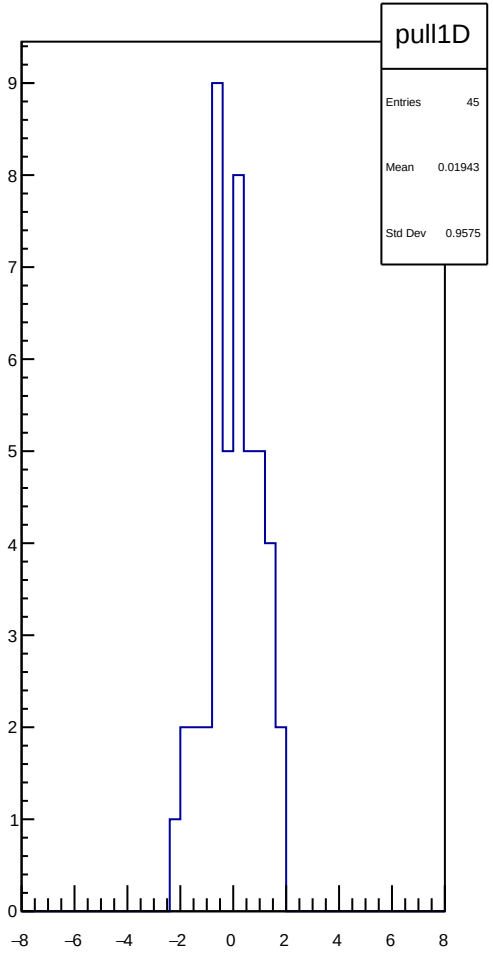

pull1D
Entries 45
Mean −0.0159
Std Dev 1.04
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

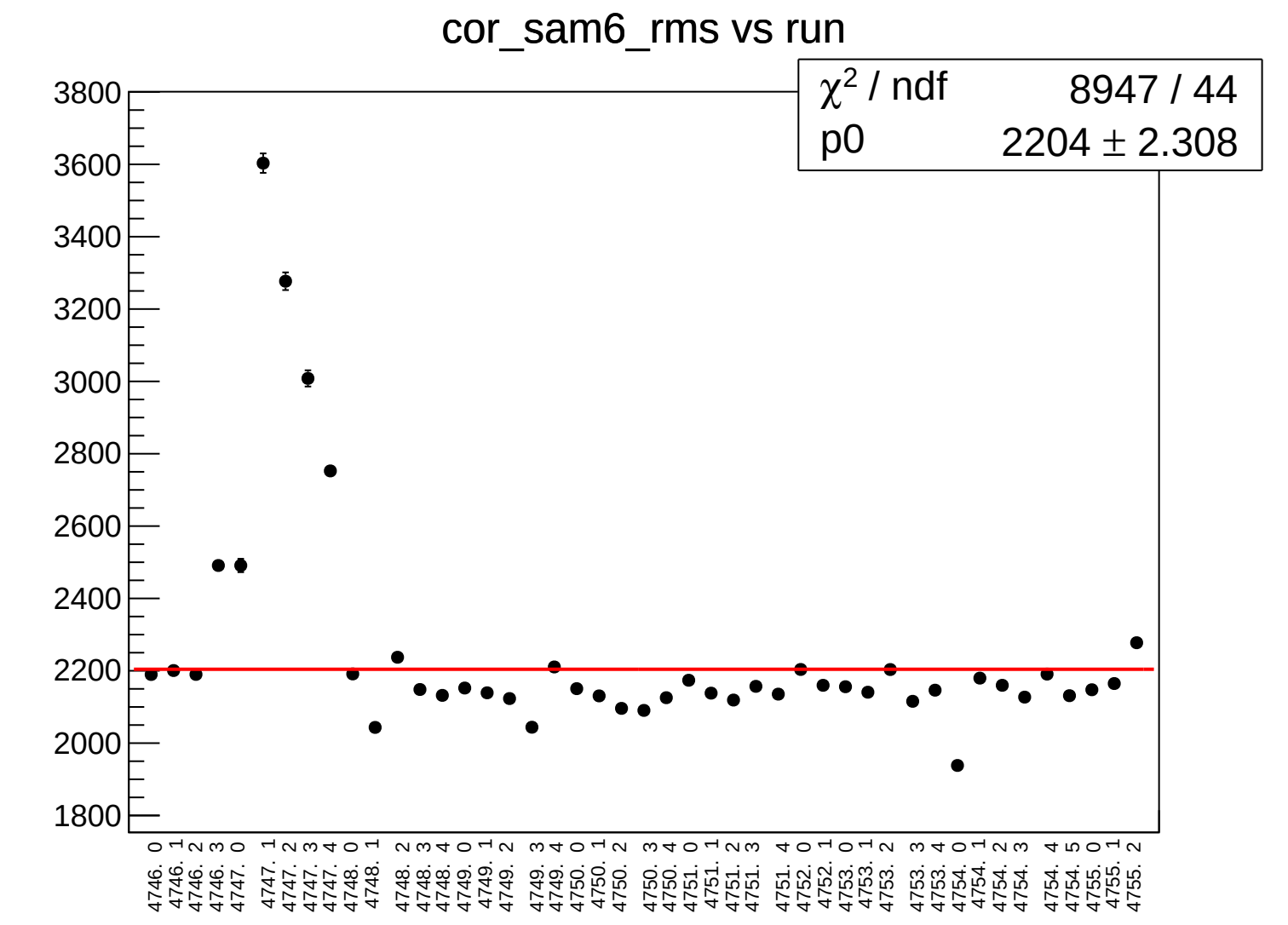

cor_sam4_rms vs run
χ² / ndf 6408 / 44
p0 4494 ± 4.699
7000
6500
6000
5500
5000
4500
4000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

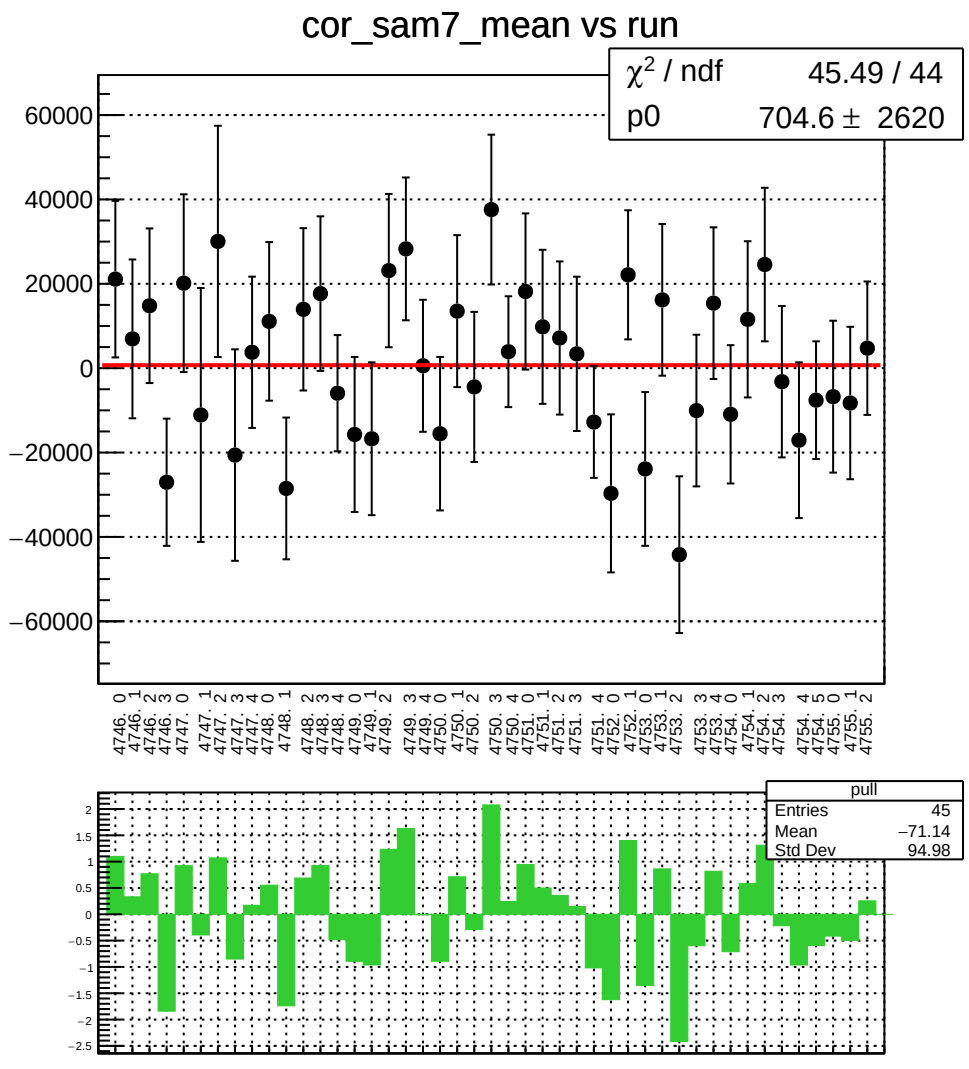

cor_sam5_mean vs run
χ² / ndf 40.44 / 44
p0 −1281 ± 657
15000
10000
5000
0
−5000
−10000
−15000
−20000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 93.82
Std Dev 84.13
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.007782
Std Dev 0.948
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

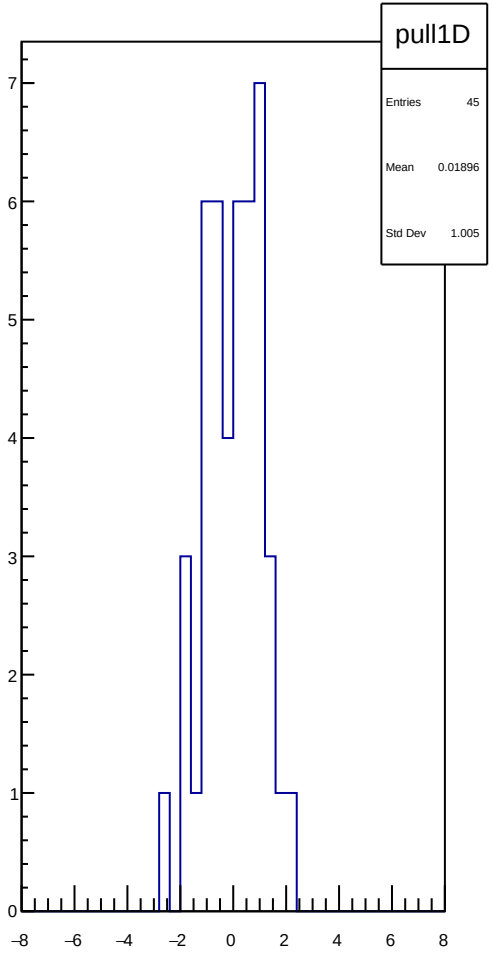

cor_sam5_rms vs run
χ² / ndf 2462 / 44
p0 445.3 ± 0.4646
500
480
460
440
420
400
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

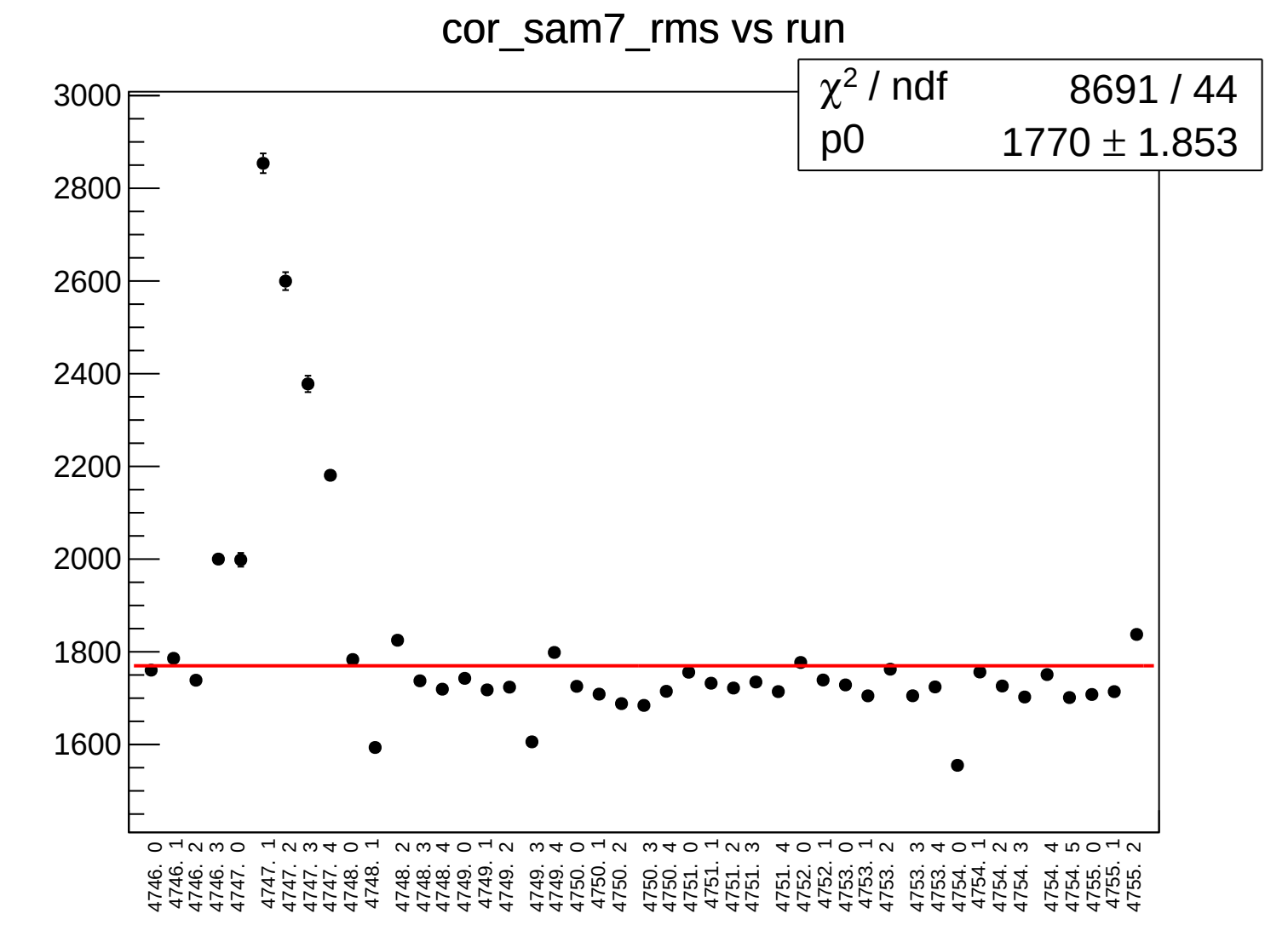

cor_sam6_mean vs run
χ² / ndf 41.27 / 44
p0 541.2 ± 3264
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −66.2
Std Dev 89.17
1.5
1
0.5
0
−0.5
−1
−1.5
−2

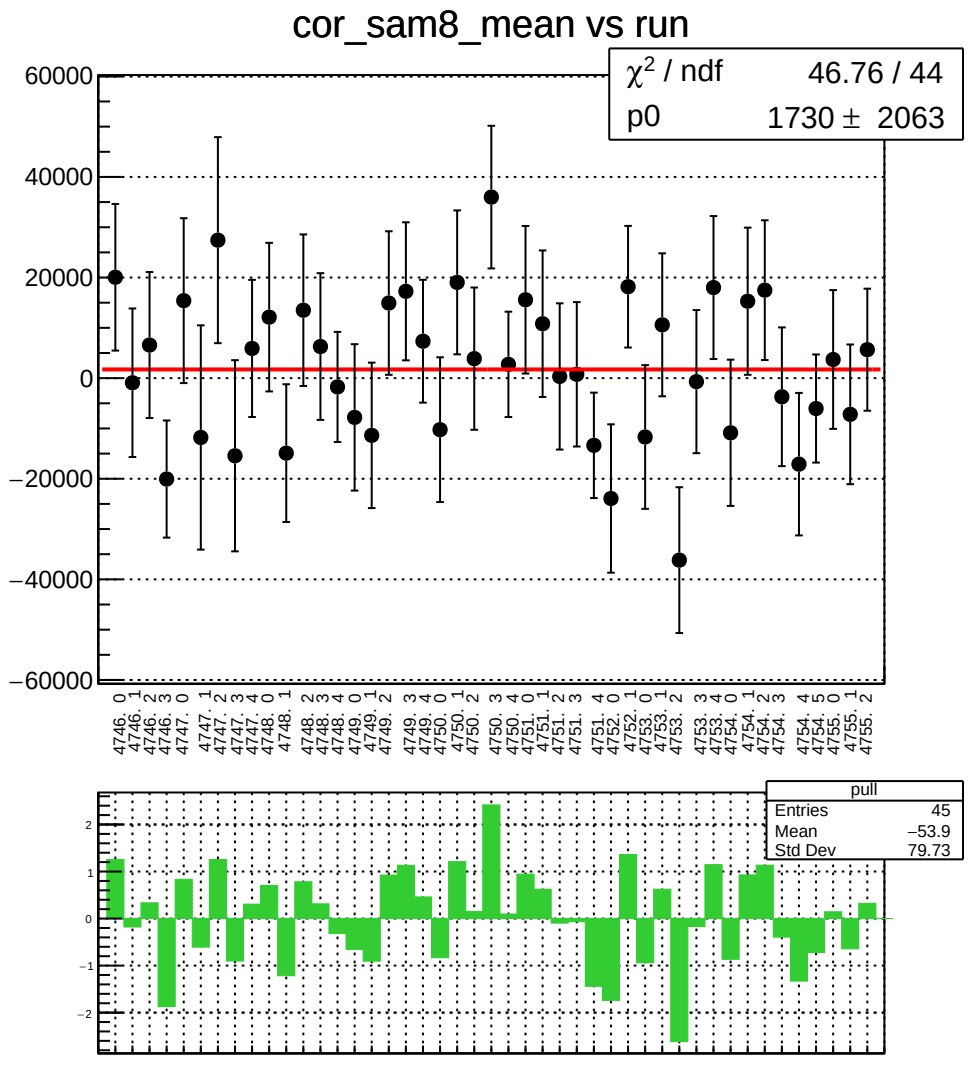

pull1D
Entries 45
Mean 0.01943
Std Dev 0.9575
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

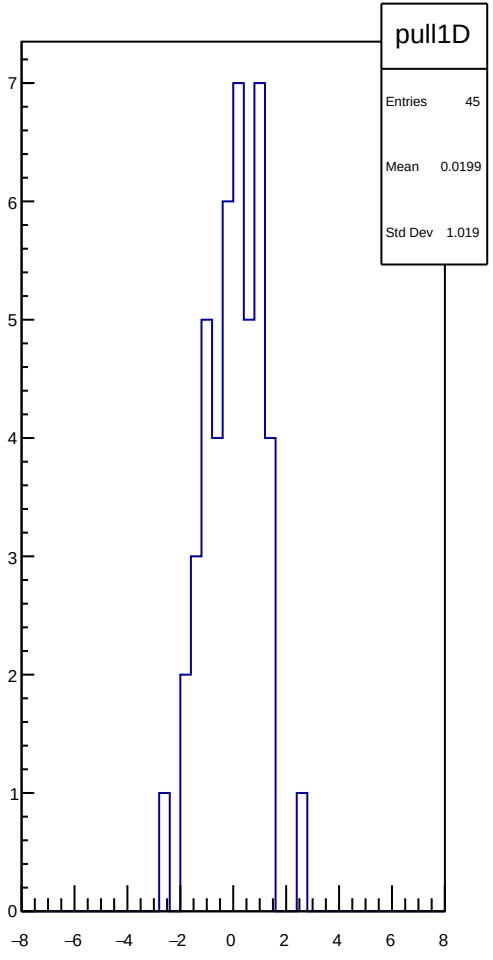

cor_sam6_rms vs run
χ² / ndf 8947 / 44
p0 2204 ± 2.308
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

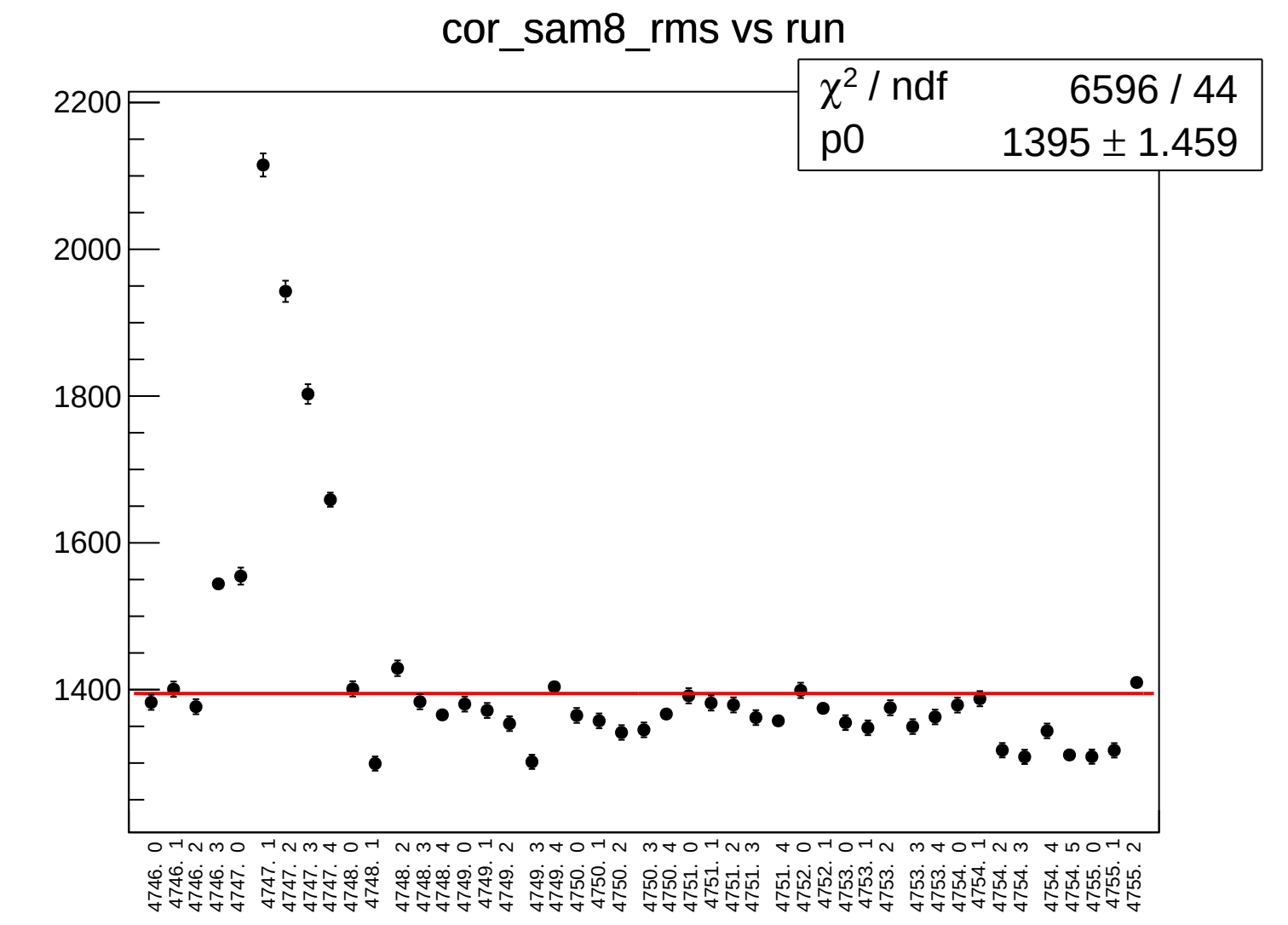

cor_sam7_mean vs run
χ² / ndf 45.49 / 44
p0 704.6 ± 2620
60000
40000
20000
0
−20000
−40000
−60000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −71.14
Std Dev 94.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

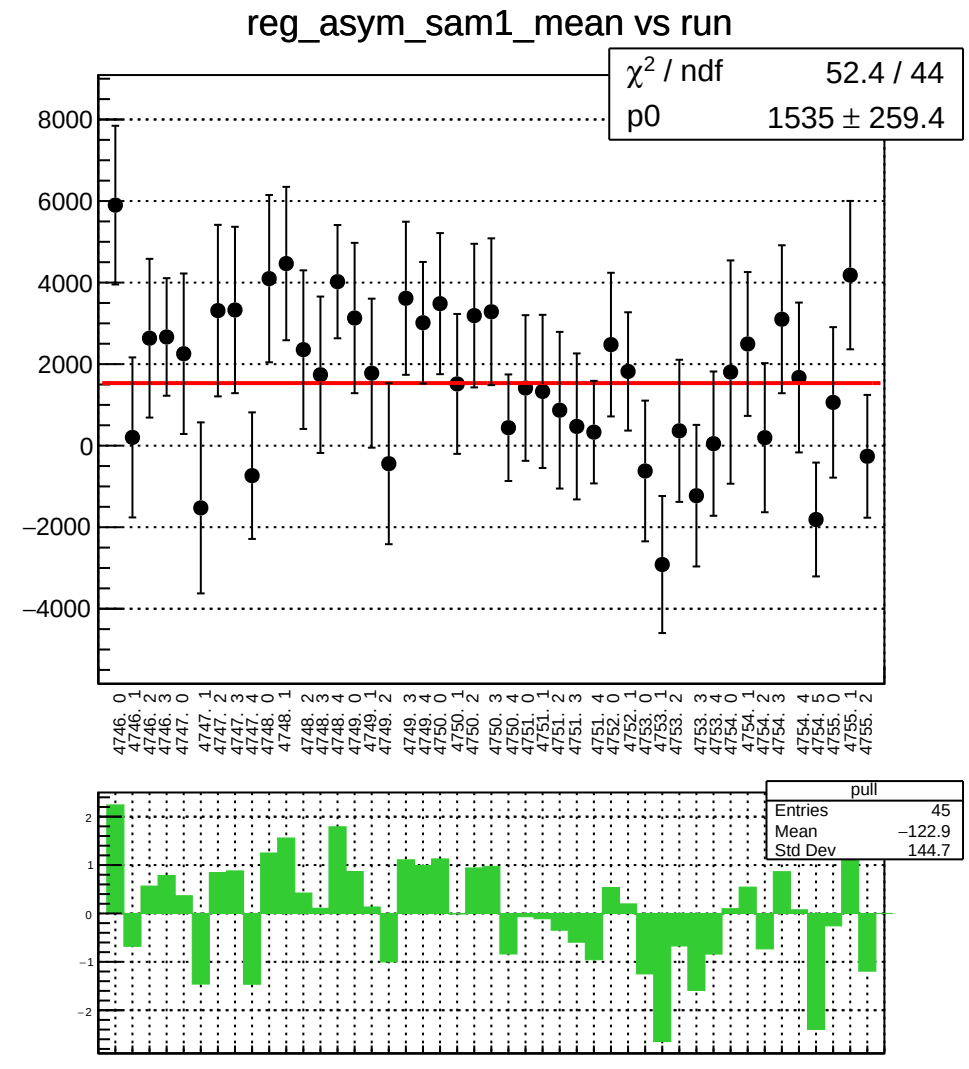

pull1D
Entries 45
Mean 0.01896
Std Dev 1.005
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

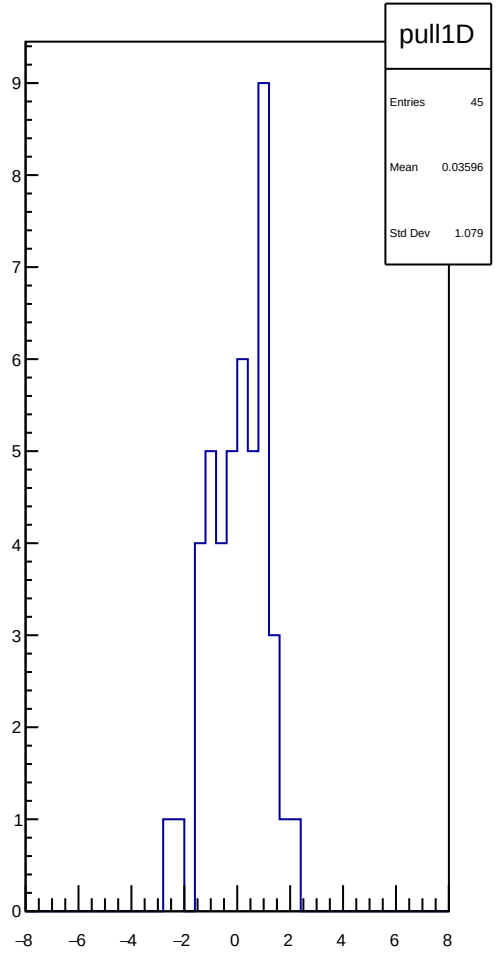

cor_sam7_rms vs run
χ² / ndf 8691 / 44
p0 1770 ± 1.853
3000
2800
2600
2400
2200
2000
1800
1600
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

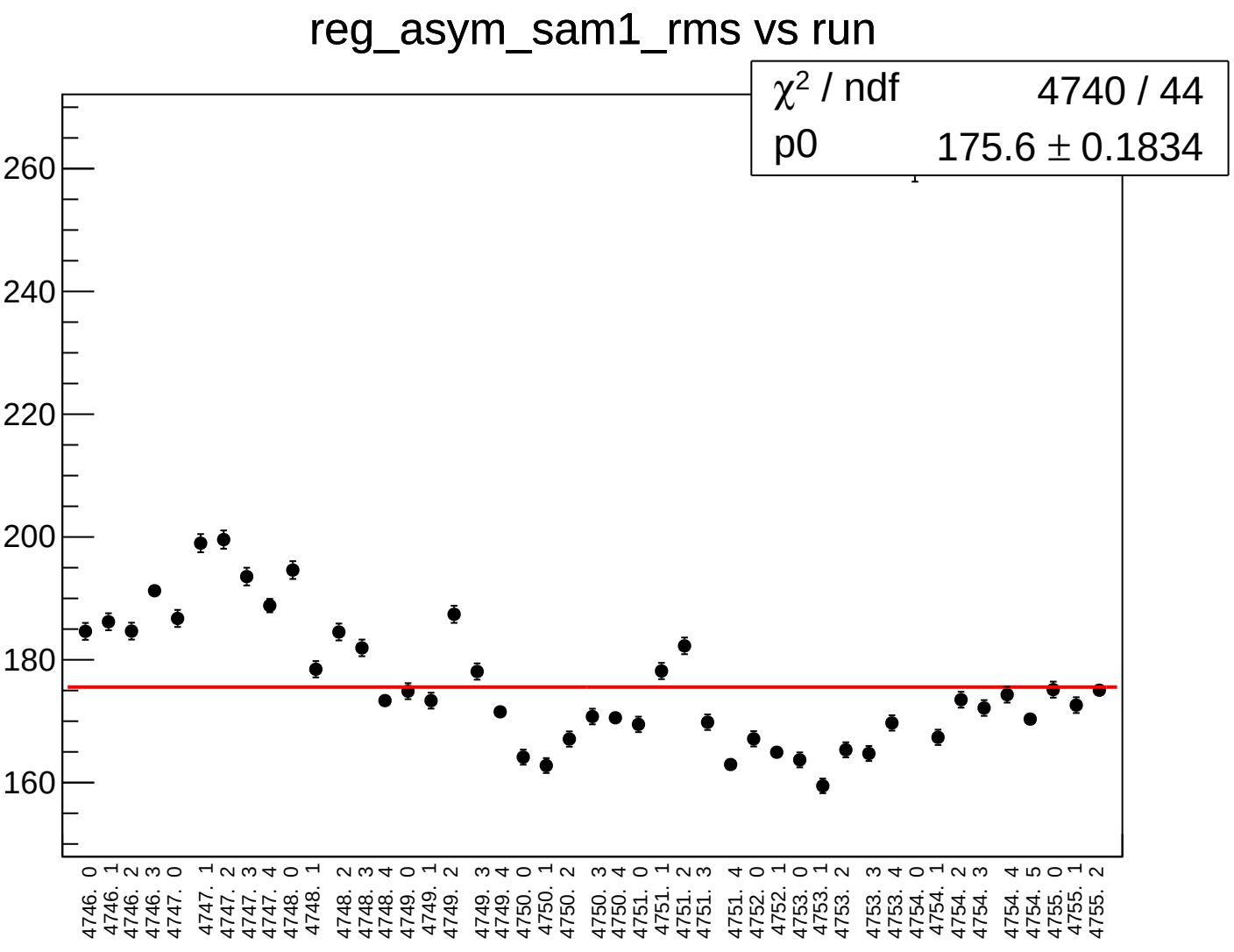

cor_sam8_mean vs run
χ^2 / ndf 46.76 / 44
p0 1730 ± 2063
60000
40000
20000
0
−20000
−40000
−60000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −53.9
Std Dev 79.73
2
1
0
−1
−2

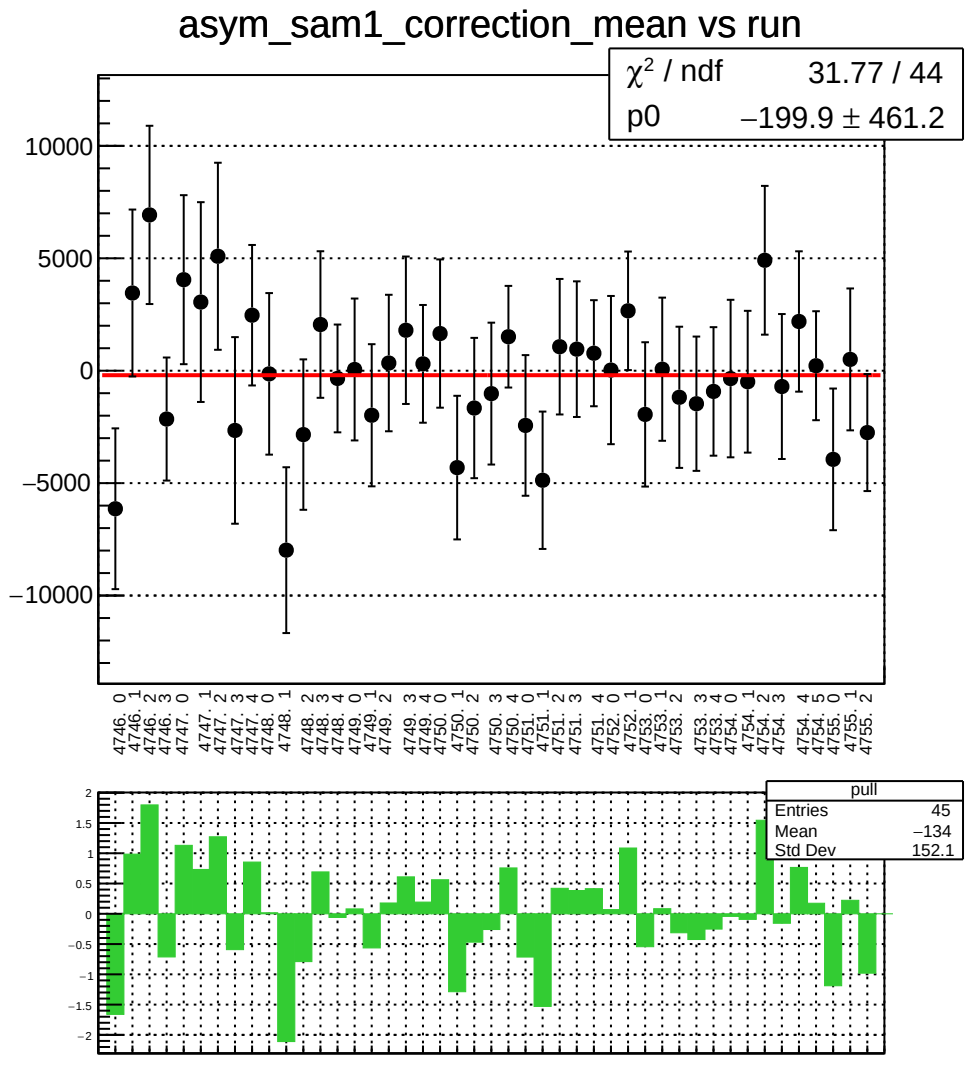

pull1D
Entries 45
Mean 0.0199
Std Dev 1.019
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

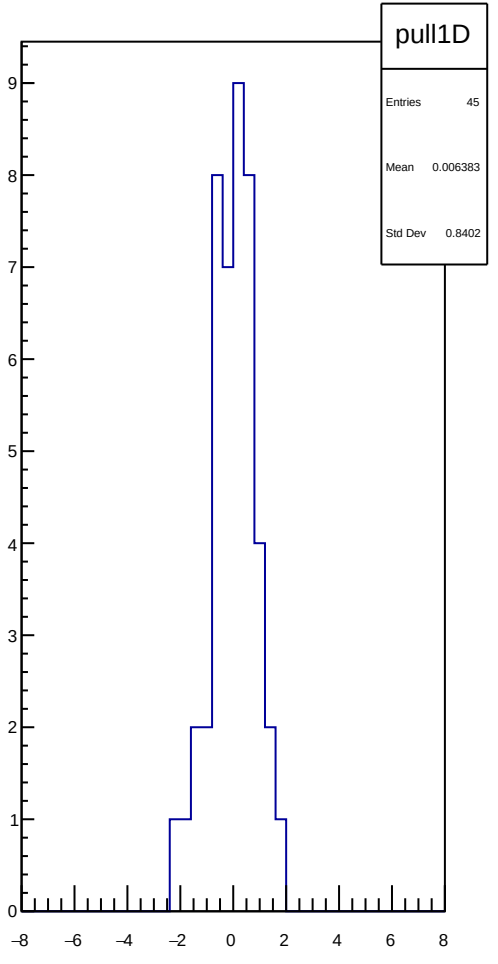

cor_sam8_rms vs run
χ² / ndf 6596 / 44
p0 1395 ± 1.459
2200
2000
1800
1600
1400
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

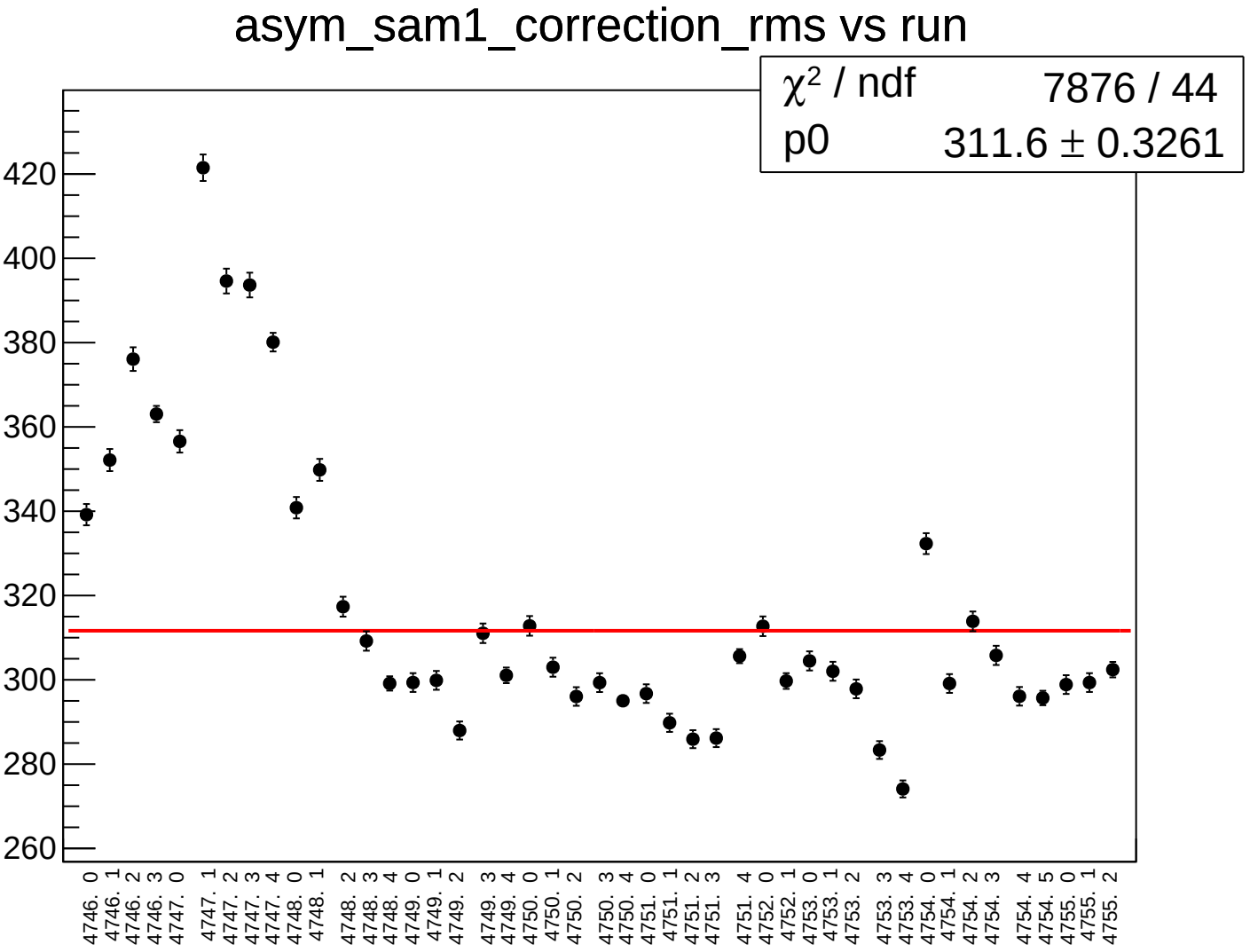

reg_asym_sam1_mean vs run
χ² / ndf 52.4 / 44
p0 1535 ± 259.4
8000
6000
4000
2000
0
−2000
−4000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −122.9
Std Dev 144.7
2
1
0
−1
−2

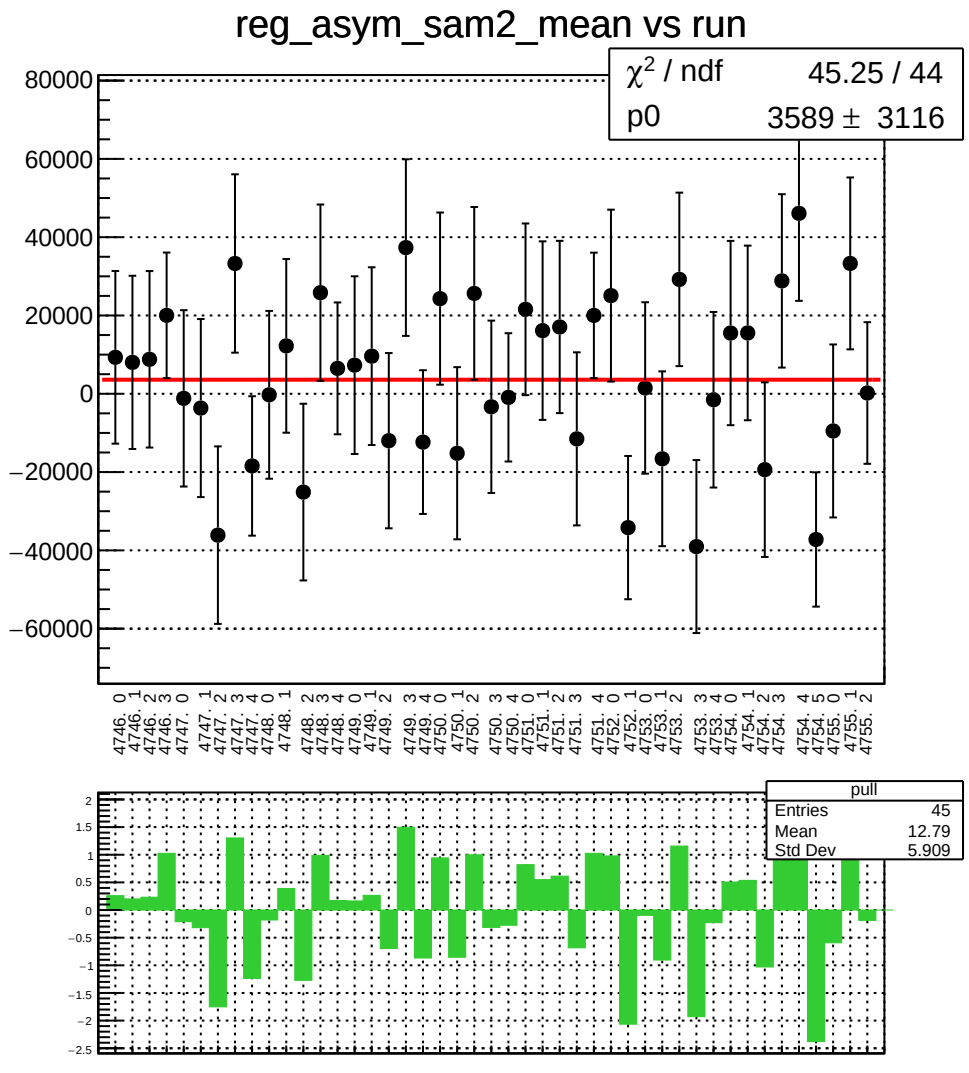

pull1D
Entries 45
Mean 0.03596
Std Dev 1.079
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

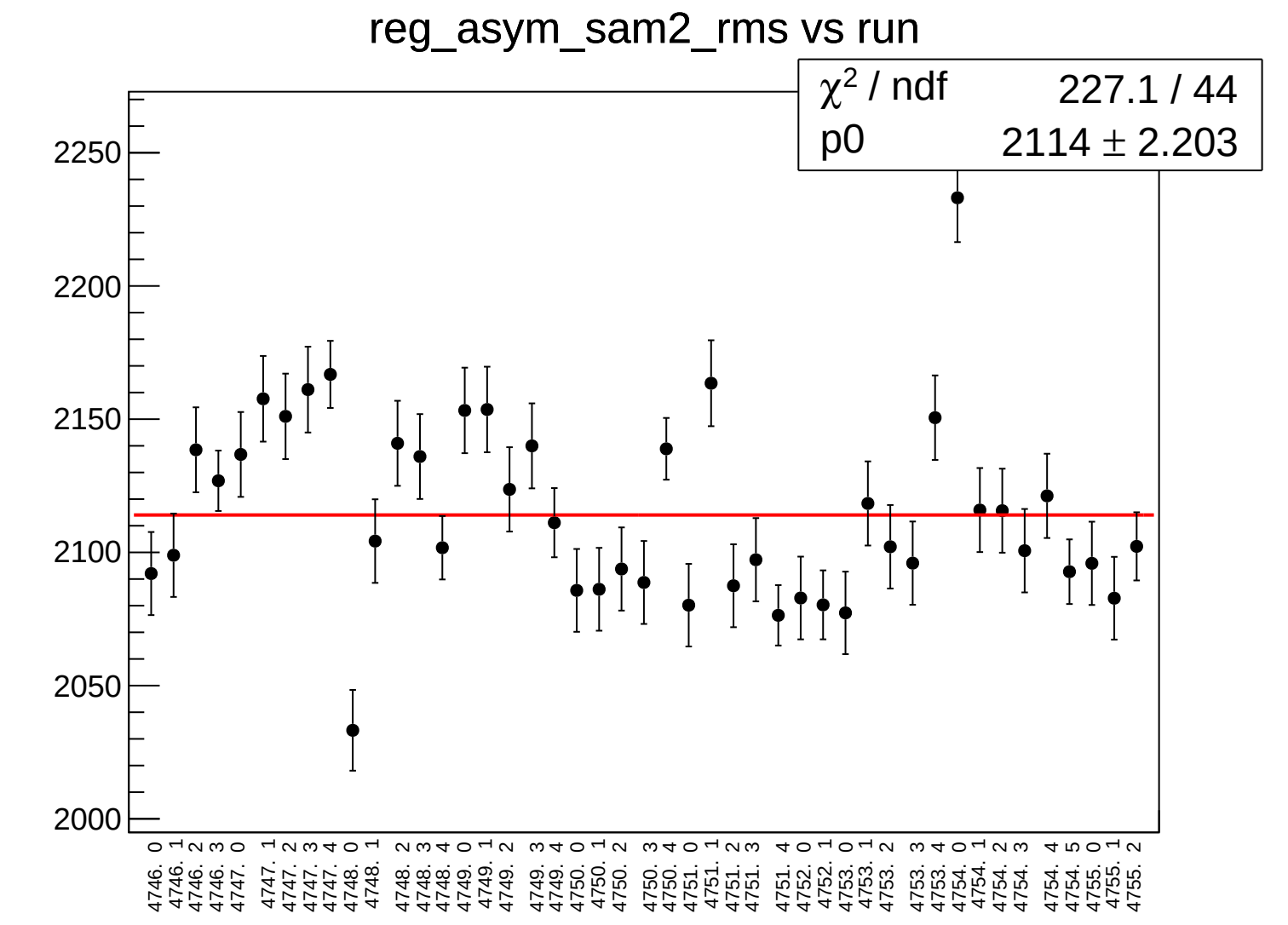

reg_asym_sam1_rms vs run
χ² / ndf 4740 / 44
p0 175.6 ± 0.1834
260
240
220
200
180
160
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

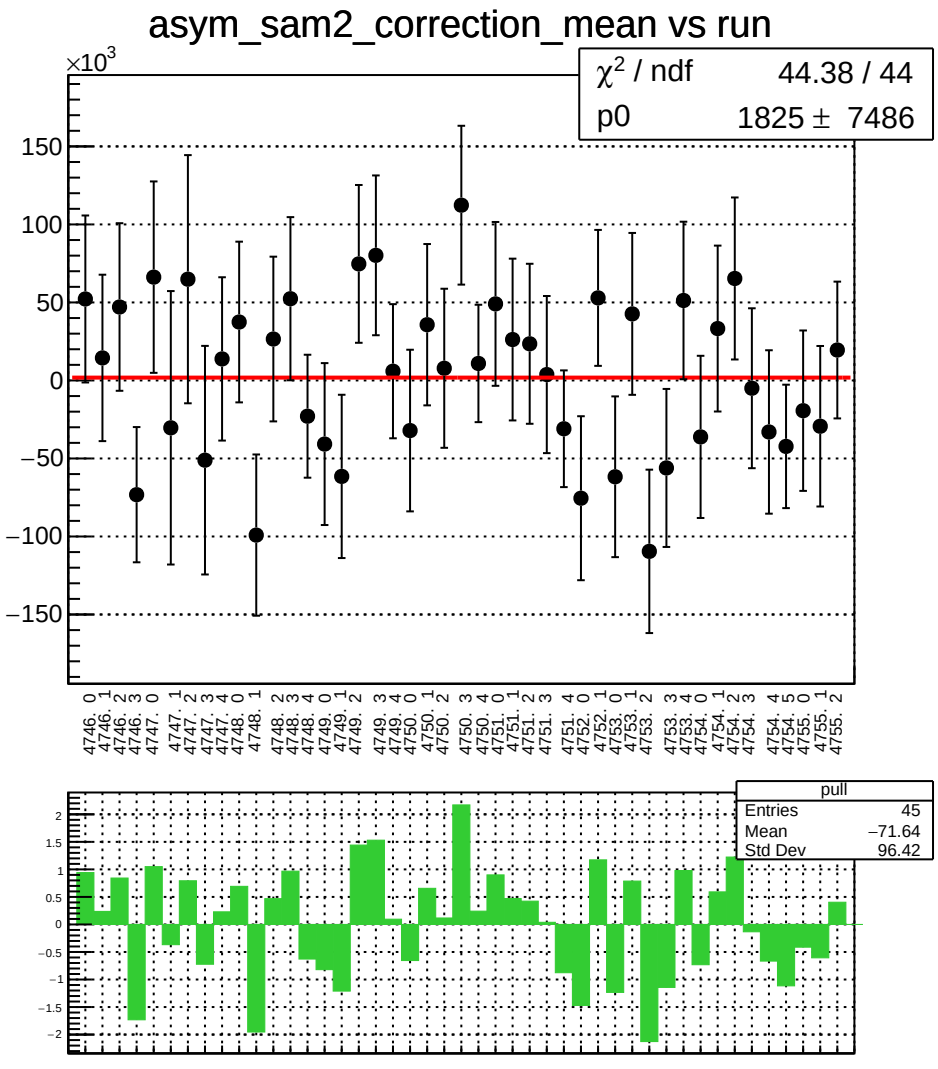

asym_sam1_correction_mean vs run
χ² / ndf 31.77 / 44
p0 −199.9 ± 461.2
10000
5000
0
−5000
−10000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −134
Std Dev 152.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

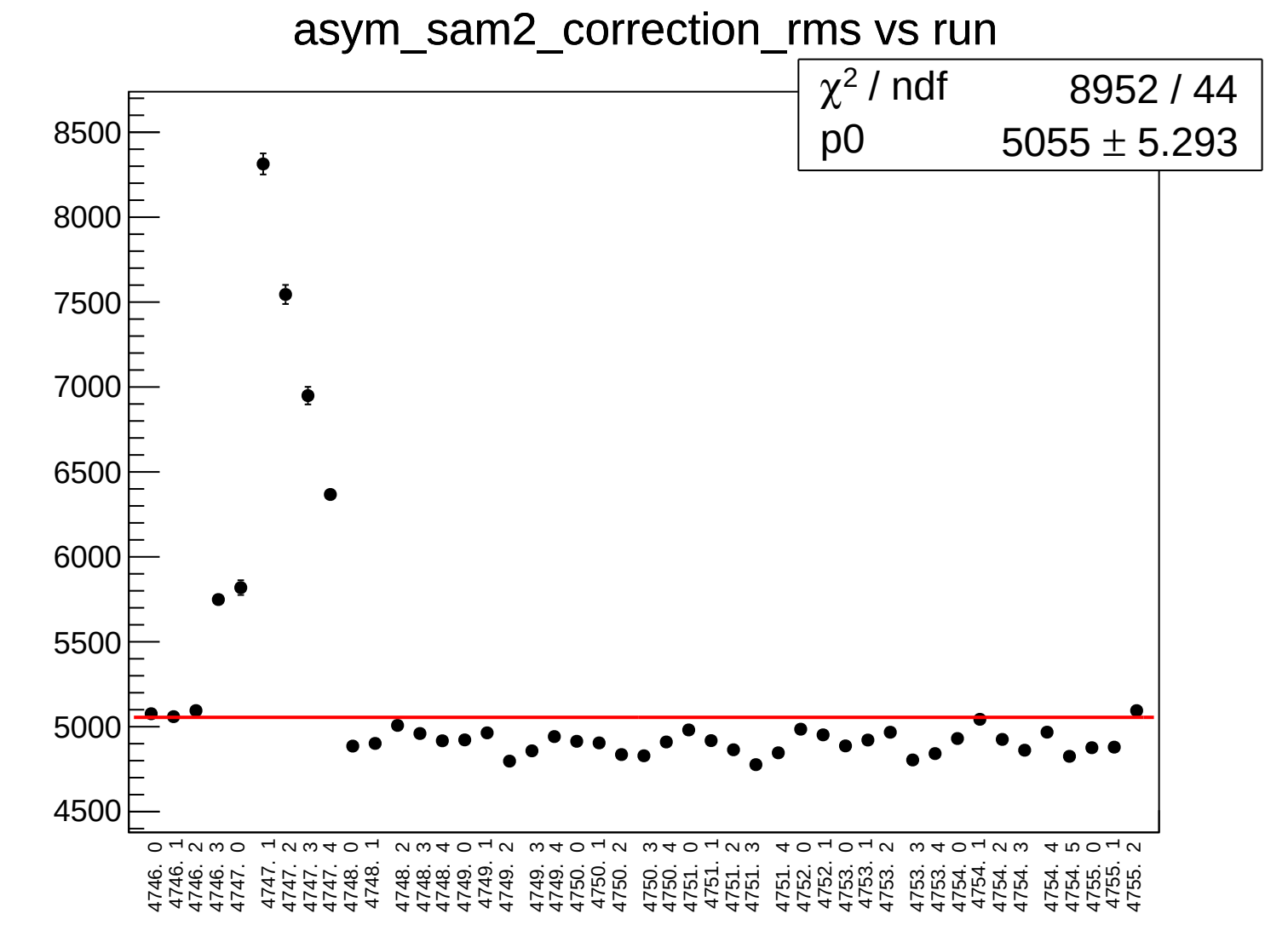

pull1D
Entries 45
Mean 0.006383
Std Dev 0.8402
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

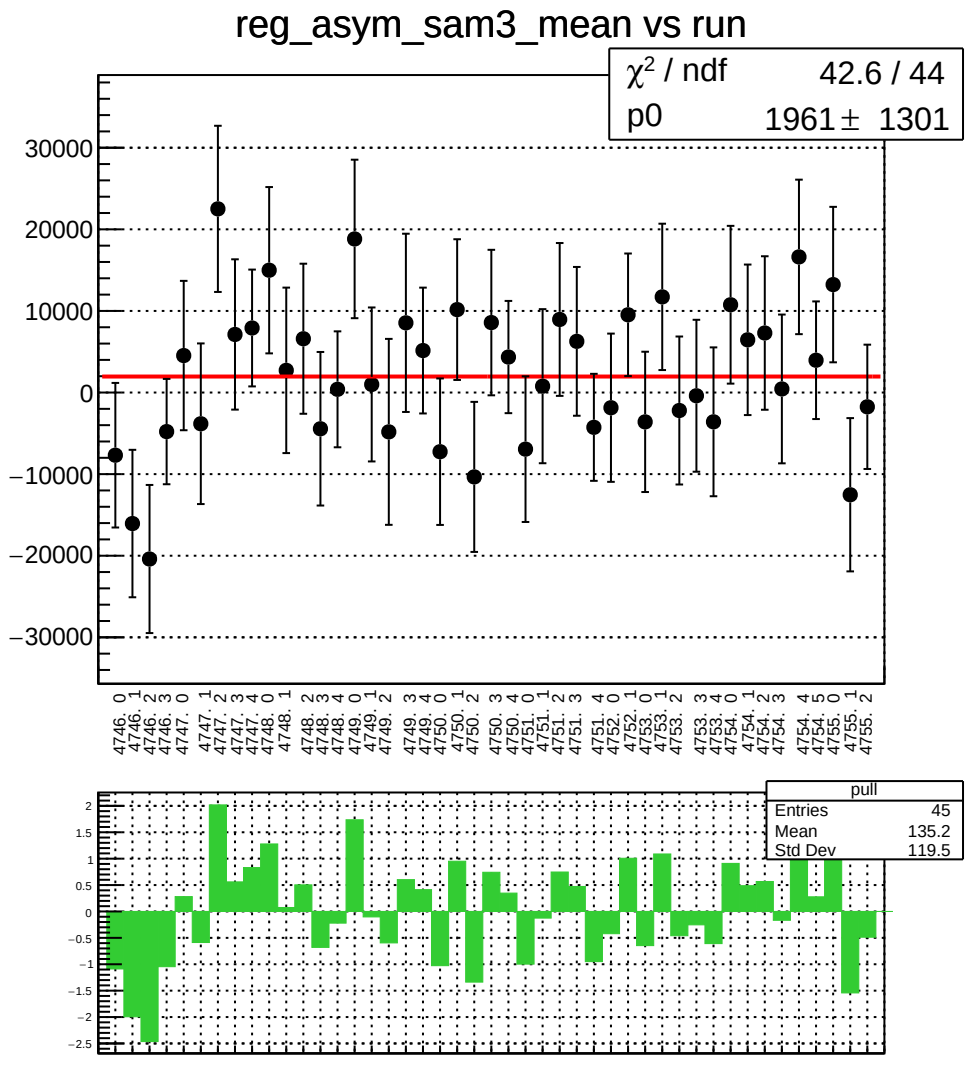

asym_sam1_correction_rms vs run
χ² / ndf 7876 / 44
p0 311.6 ± 0.3261
420
400
380
360
340
320
300
280
260
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

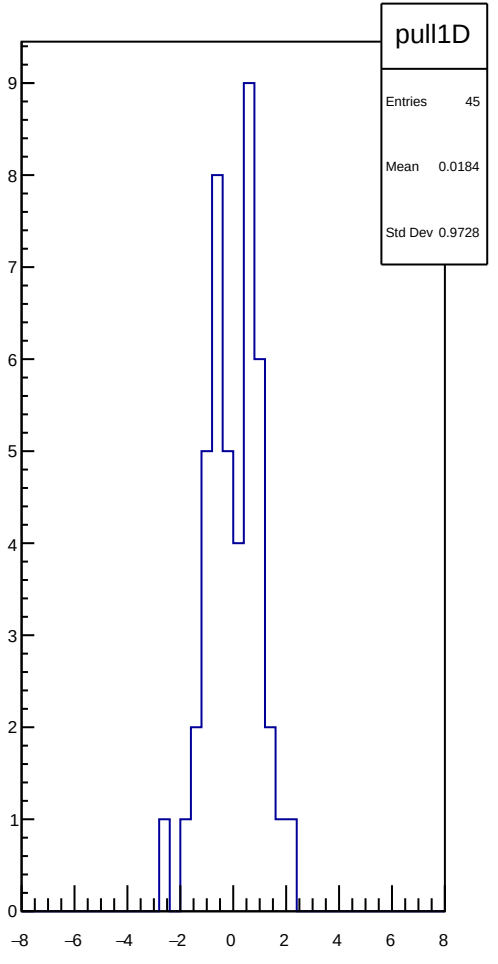

reg_asym_sam2_mean vs run
χ² / ndf 45.25 / 44
p0 3589 ± 3116
80000
60000
40000
20000
0
−20000
−40000
−60000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 12.79
Std Dev 5.909
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.02108
Std Dev 1.003
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

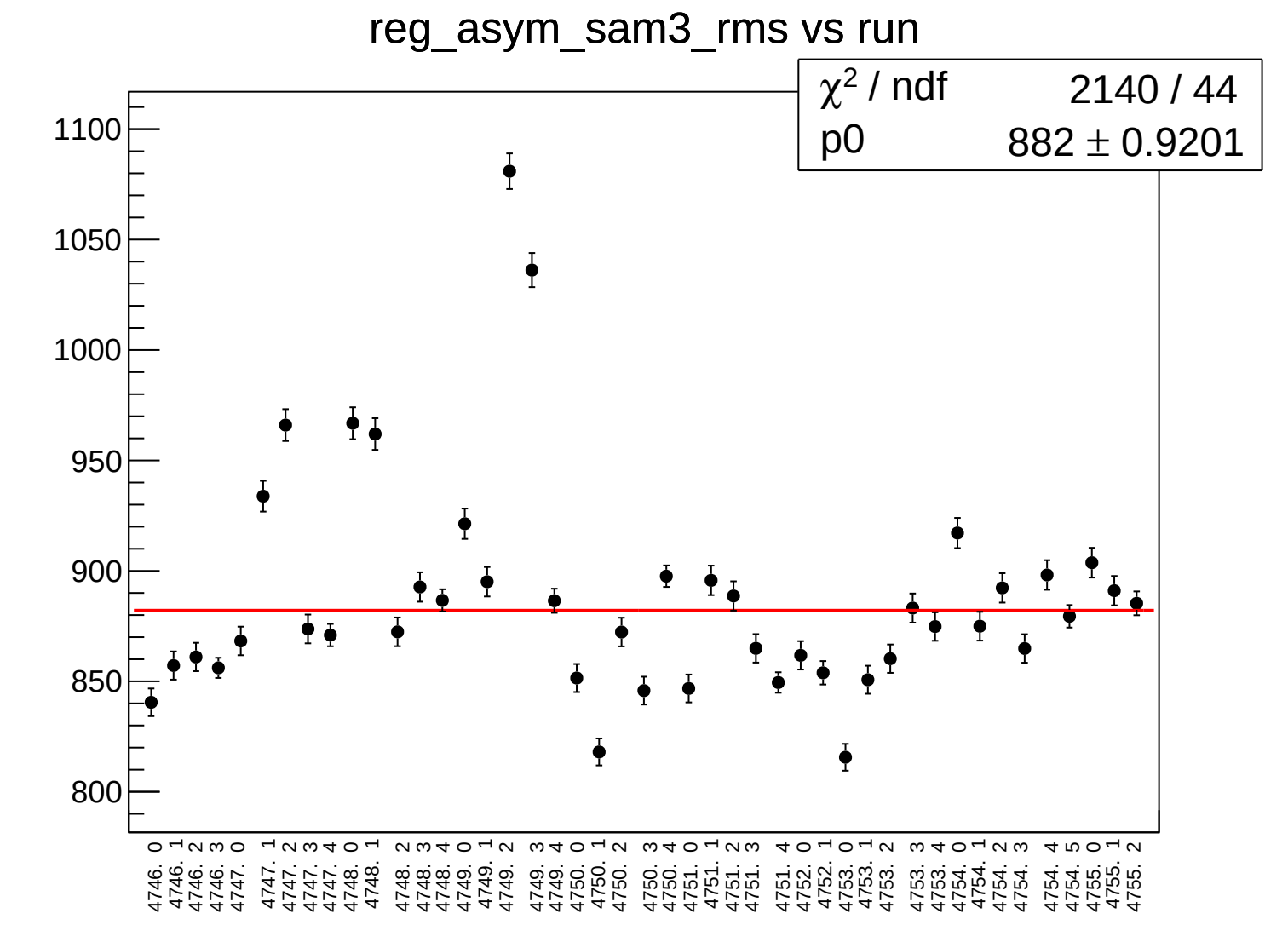

reg_asym_sam2_rms vs run
χ² / ndf 227.1 / 44
p0 2114 ± 2.203
2250
2200
2150
2100
2050
2000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

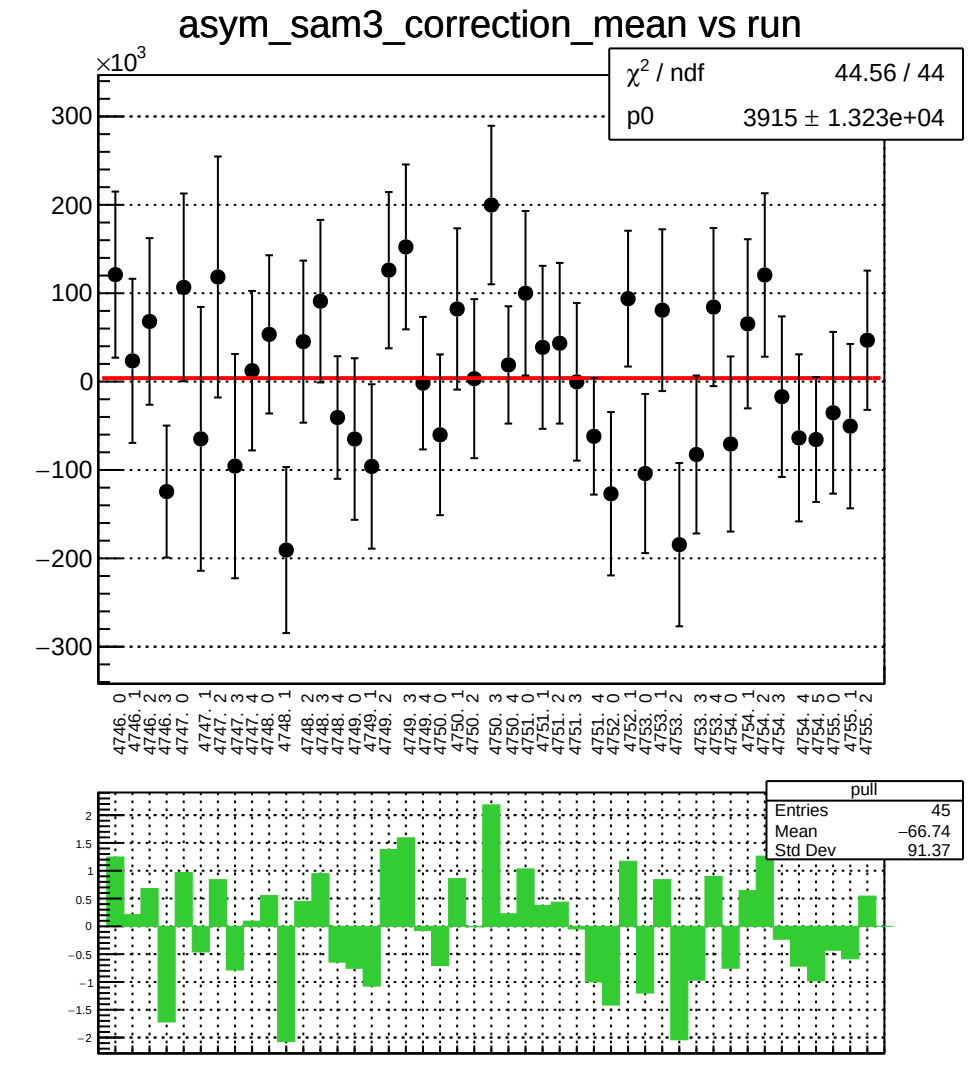

asym_sam2_correction_mean vs run
×10^3
χ^2 / ndf 44.38 / 44
p0 1825 ± 7486
150
100
50
0
−50
−100
−150
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −71.64
Std Dev 96.42
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01911
Std Dev 0.9929
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

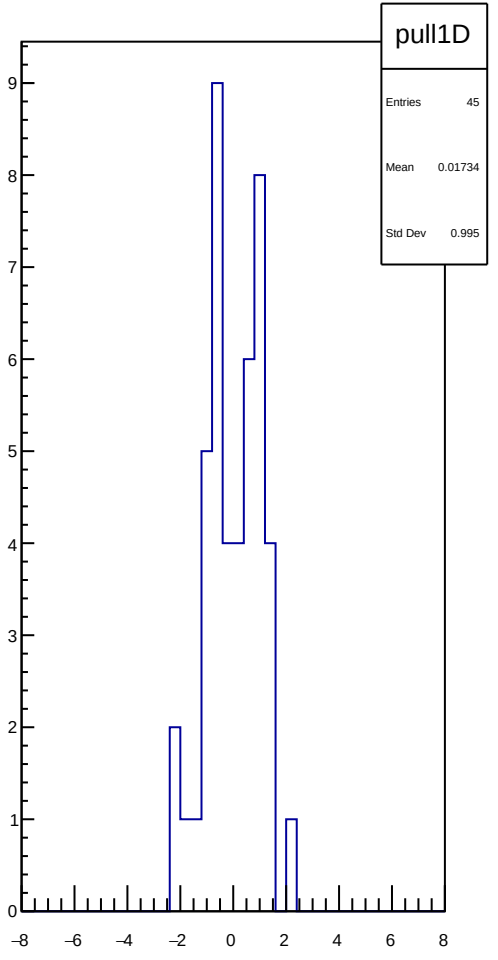

asym_sam2_correction_rms vs run
χ² / ndf 8952 / 44
p0 5055 ± 5.293
8500
8000
7500
7000
6500
6000
5500
5000
4500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

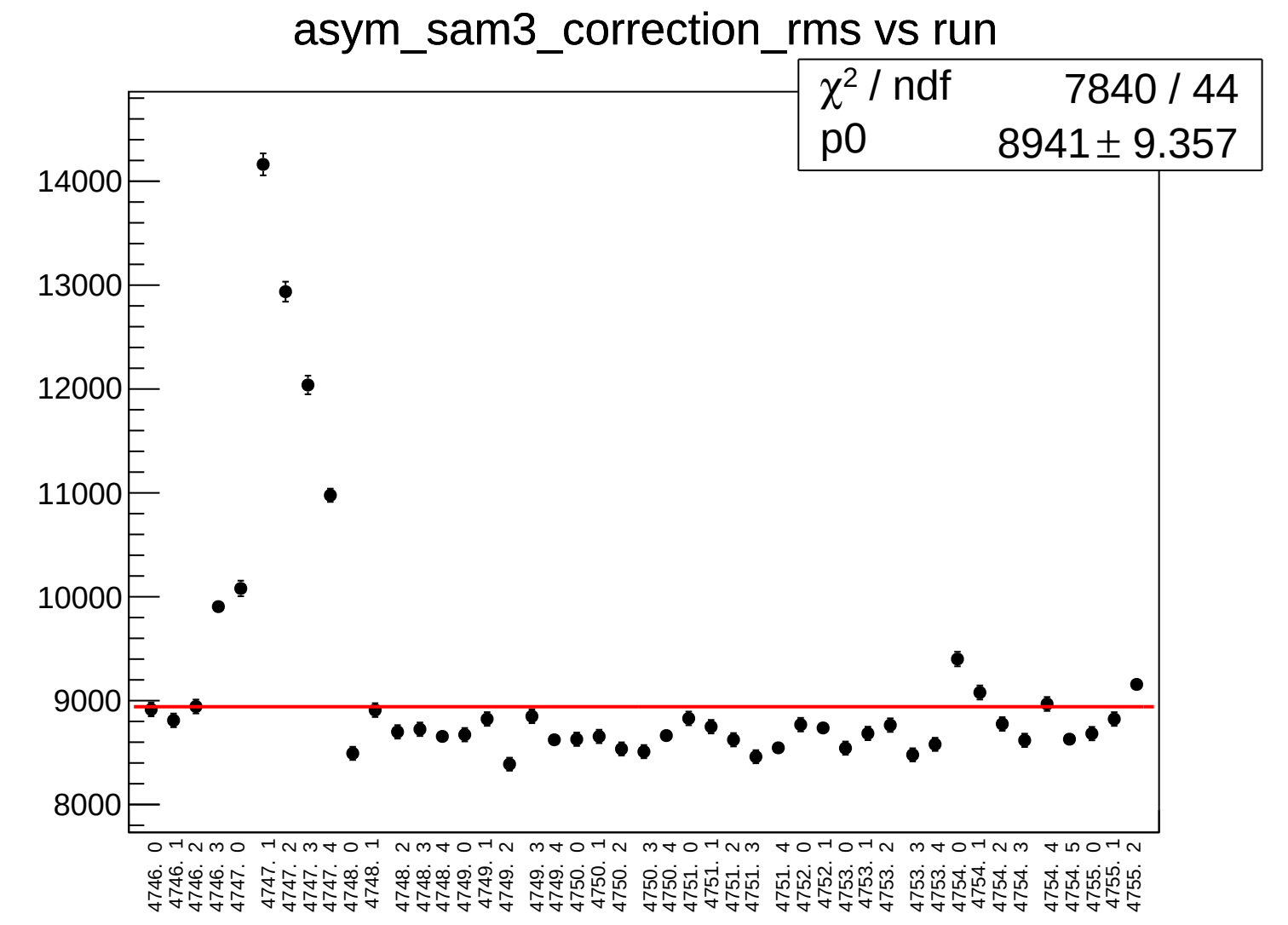

reg_asym_sam3_mean vs run
χ² / ndf 42.6 / 44
p0 1961 ± 1301
pull
Entries 45
Mean 135.2
Std Dev 119.5

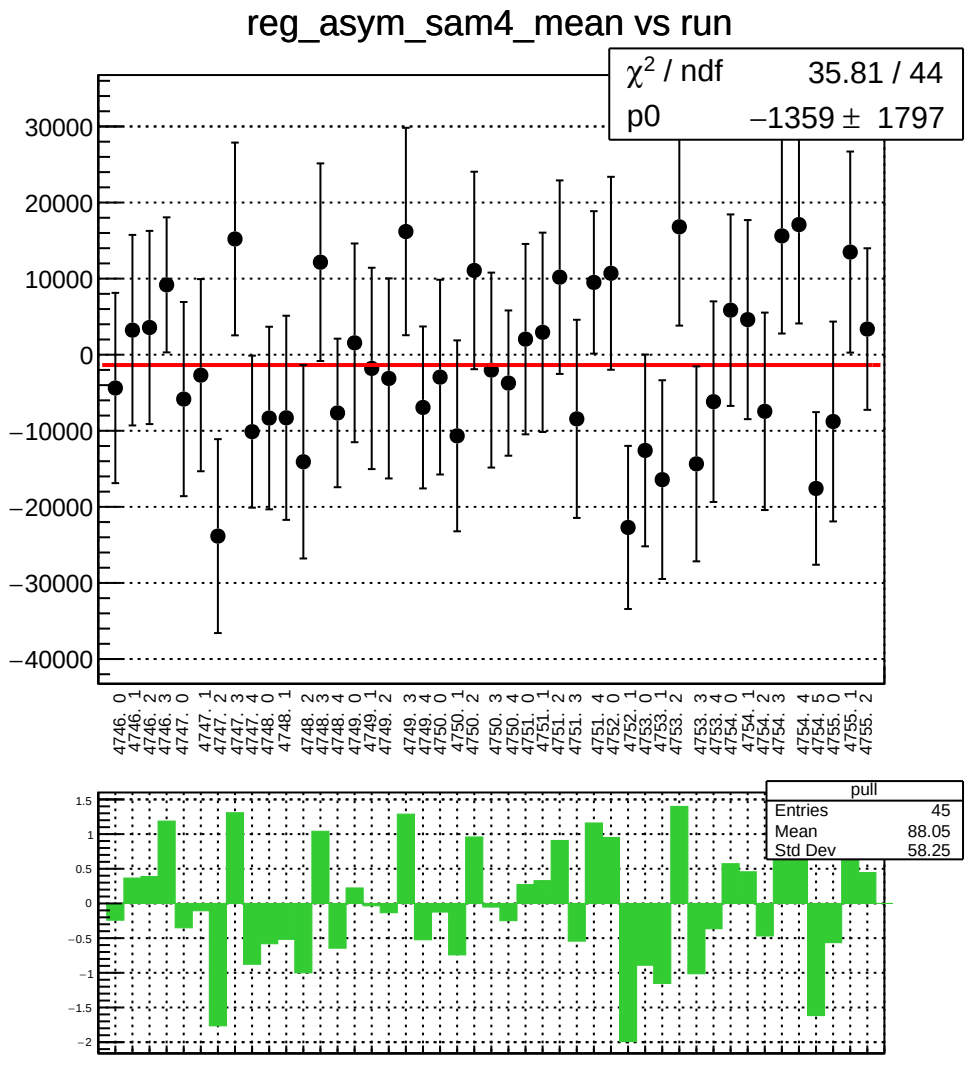

pull1D
Entries 45
Mean 0.0184
Std Dev 0.9728

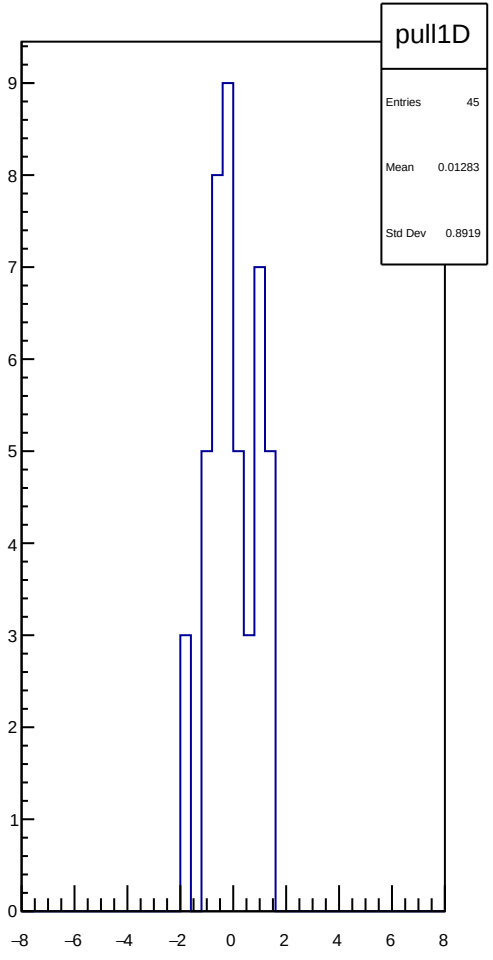

reg_asym_sam3_rms vs run
χ² / ndf 2140 / 44
p0 882 ± 0.9201
1100
1050
1000
950
900
850
800
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

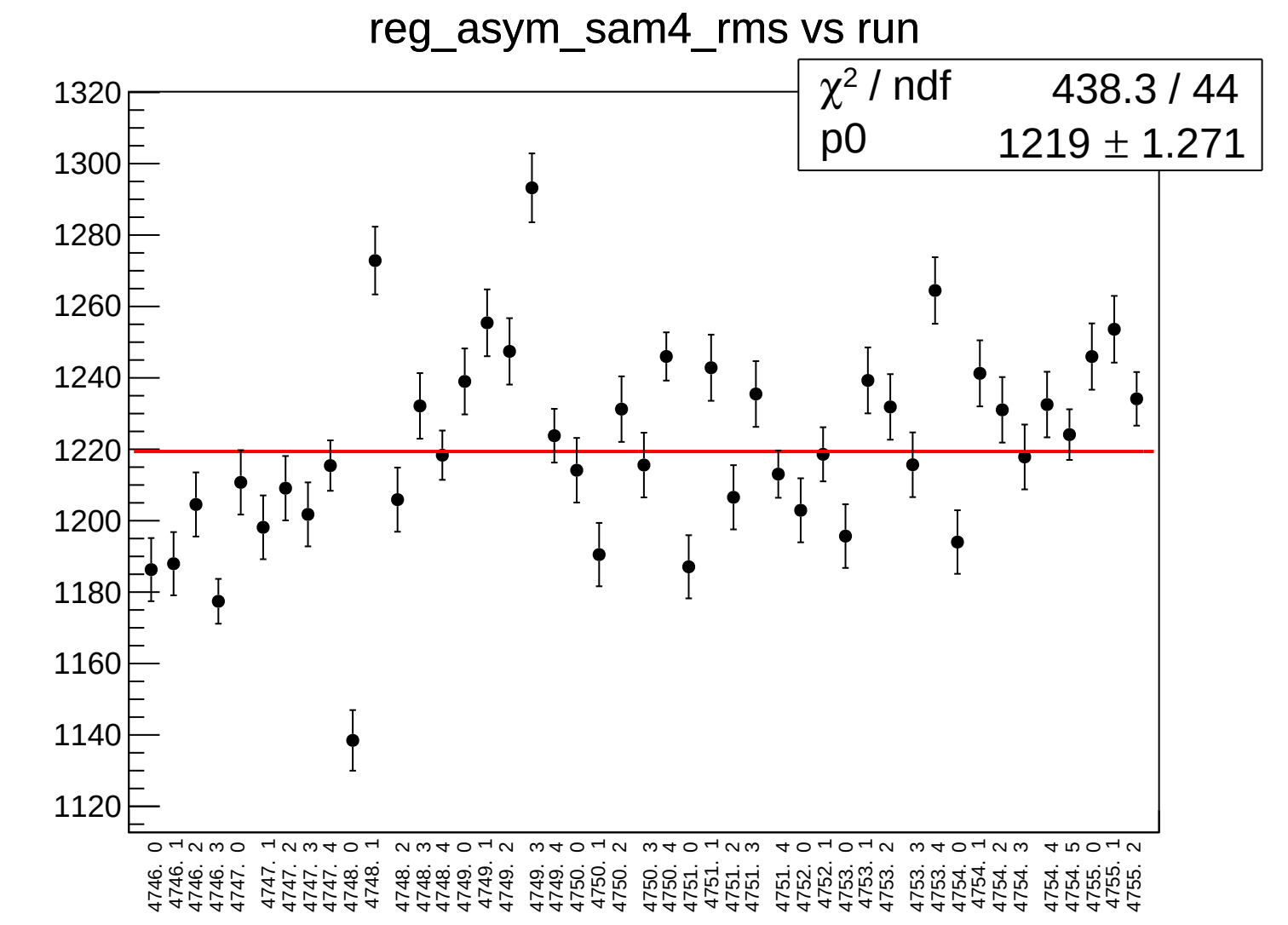

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 44.56 / 44
p0 3915 ± 1.323e+04
300
200
100
0
−100
−200
−300
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −66.74
Std Dev 91.37
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

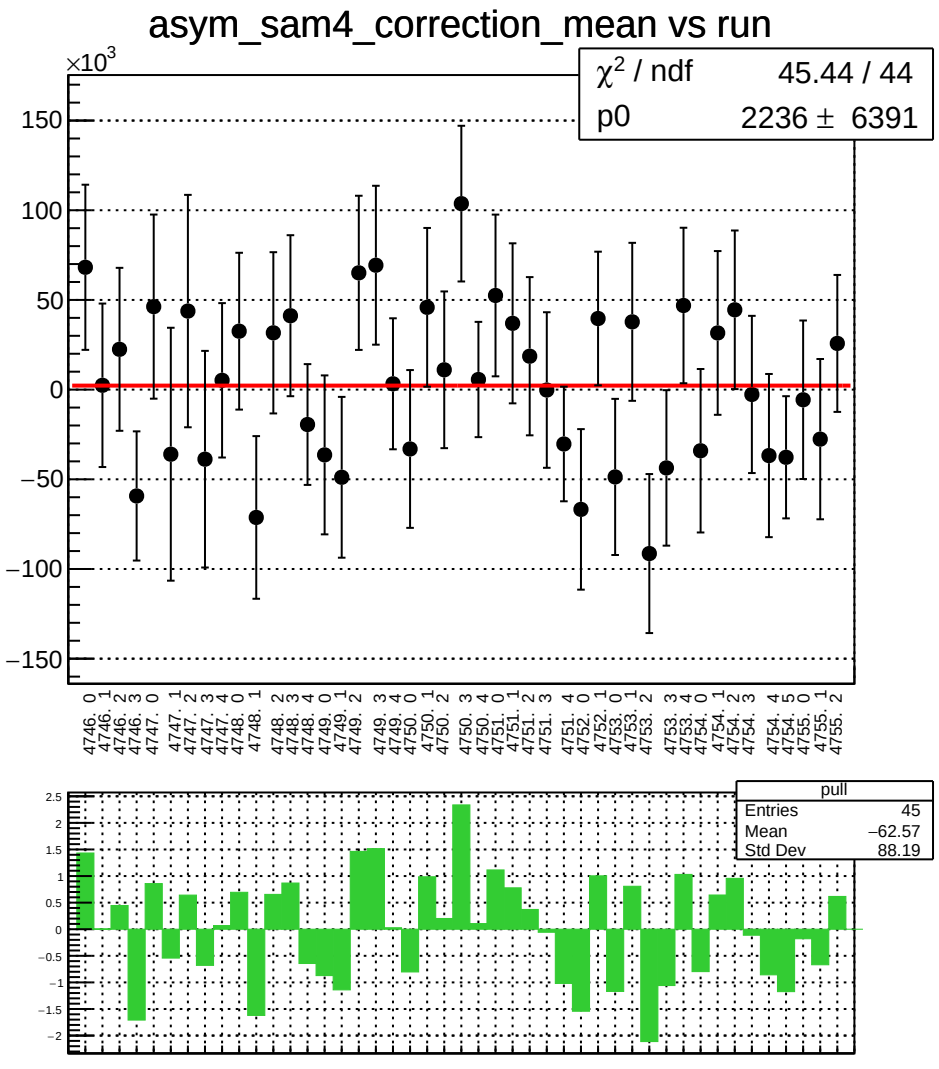

pull1D
Entries 45
Mean 0.01734
Std Dev 0.995
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

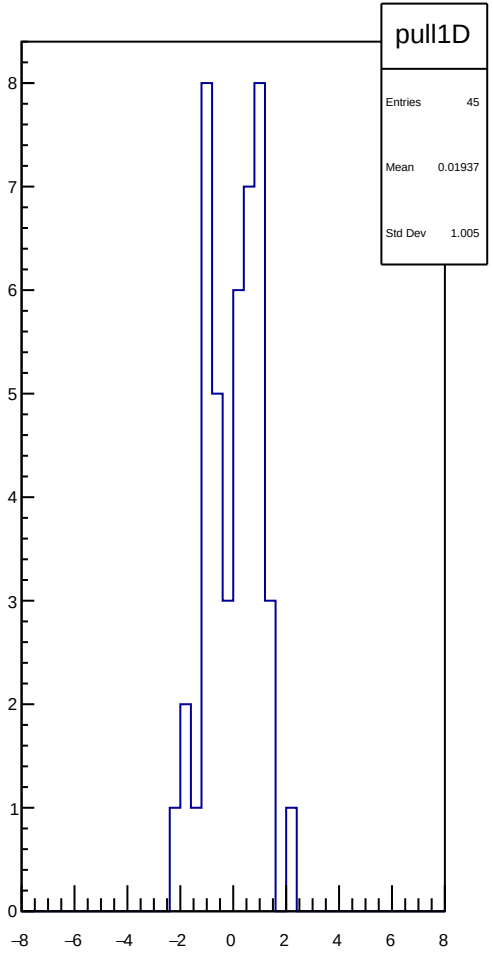

asym_sam3_correction_rms vs run
χ² / ndf 7840 / 44
p0 8941 ± 9.357
14000
13000
12000
11000
10000
9000
8000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

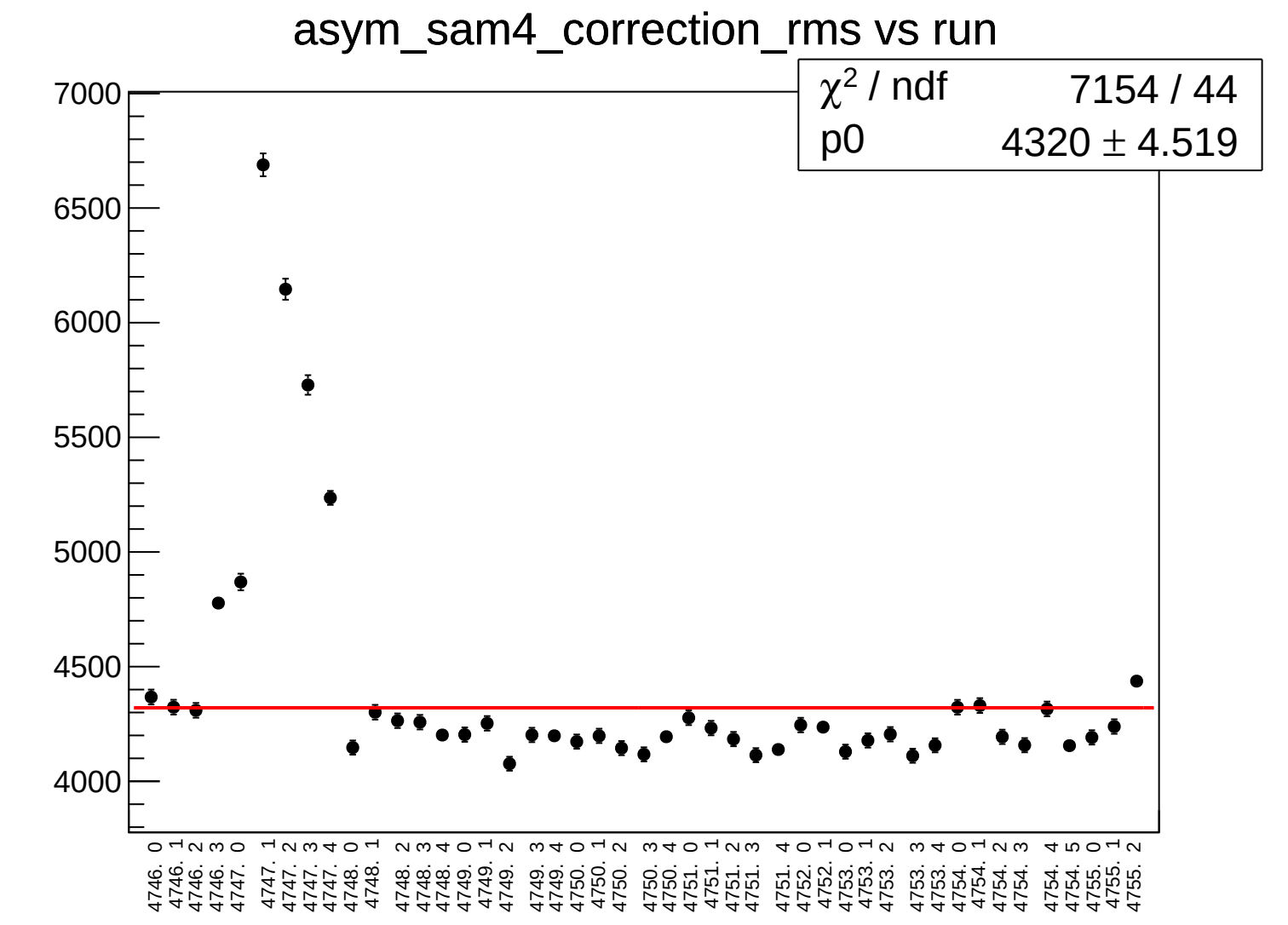

reg_asym_sam4_mean vs run
χ² / ndf 35.81 / 44
p0 −1359 ± 1797
30000
20000
10000
0
−10000
−20000
−30000
−40000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 88.05
Std Dev 58.25
1.5
1
0.5
0
−0.5
−1
−1.5
−2

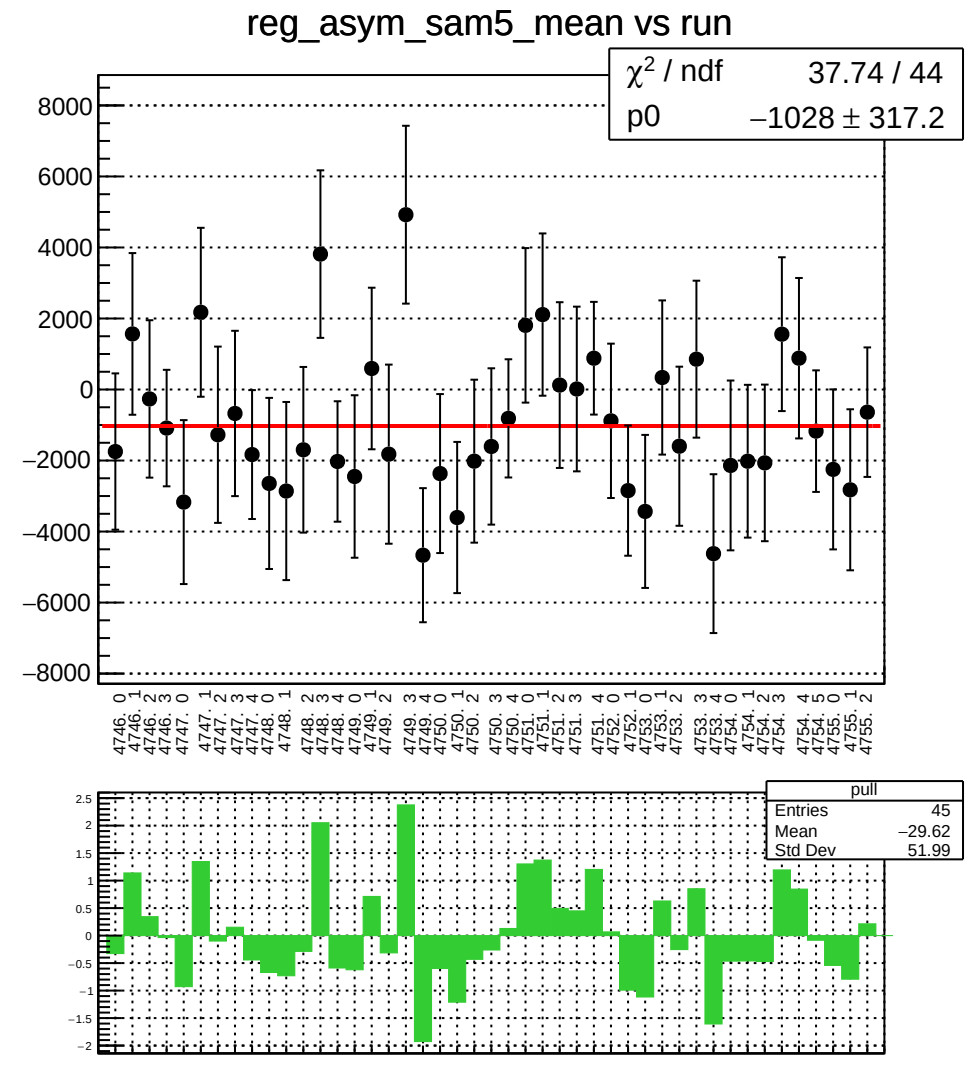

pull1D
Entries 45
Mean 0.01283
Std Dev 0.8919
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

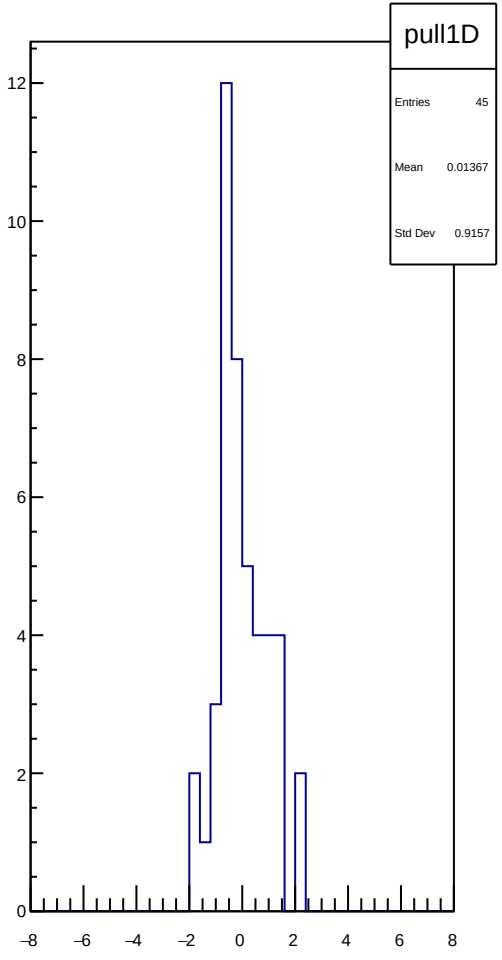

reg_asym_sam4_rms vs run
χ² / ndf 438.3 / 44
p0 1219 ± 1.271
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140
1120
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

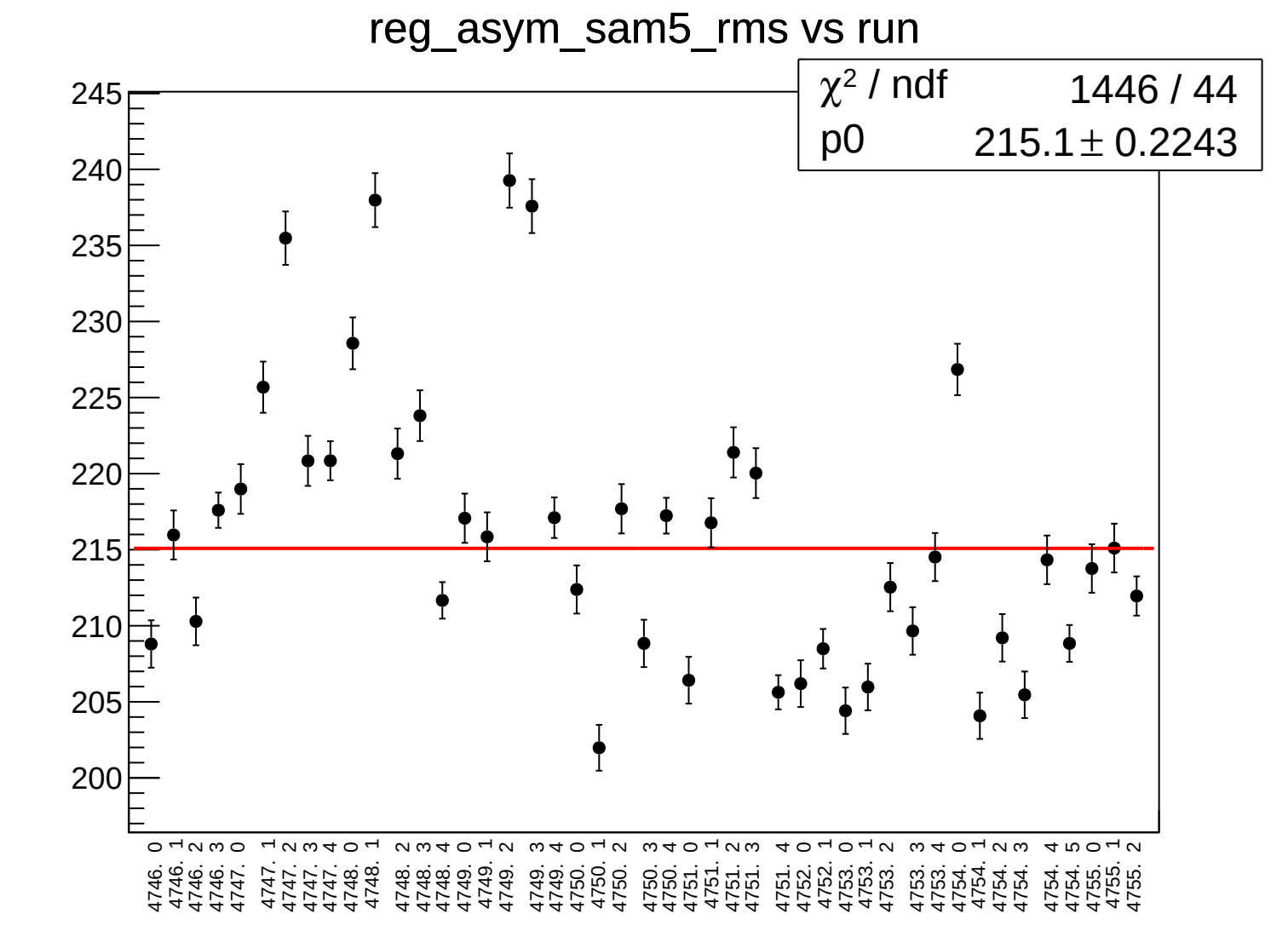

asym_sam4_correction_mean vs run
×10^3
χ^2 / ndf 45.44 / 44
p0 2236 ± 6391
150
100
50
0
−50
−100
−150
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −62.57
Std Dev 88.19
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

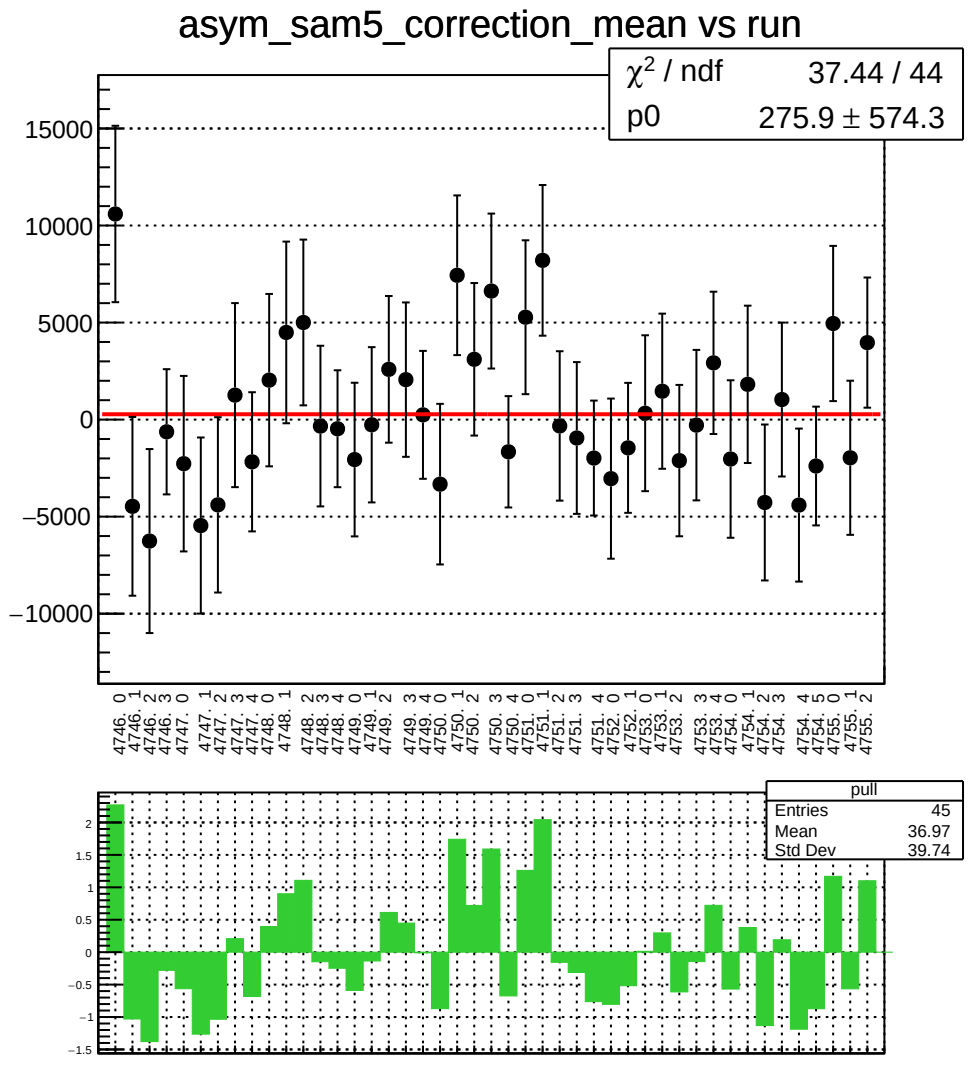

pull1D
Entries 45
Mean 0.01937
Std Dev 1.005
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

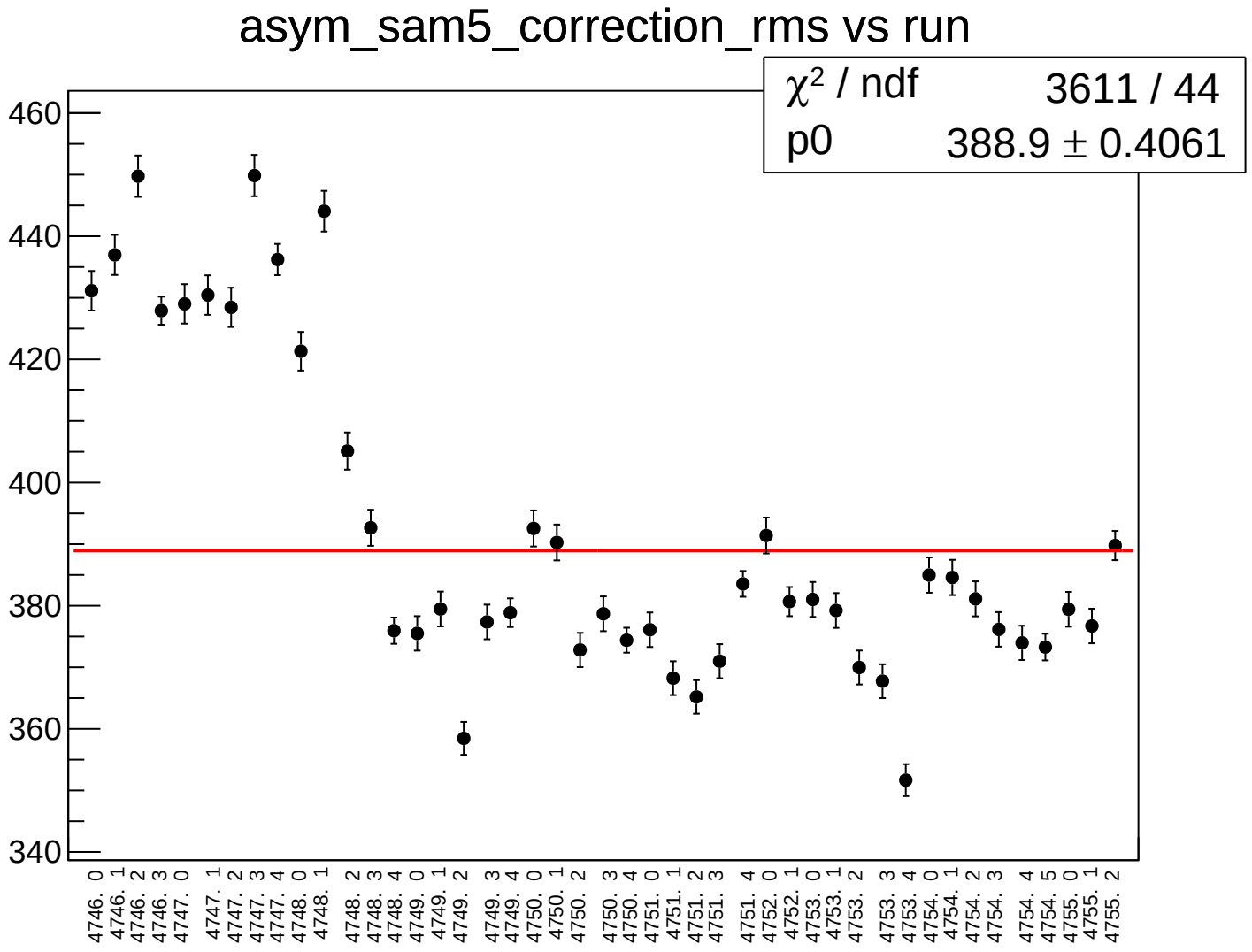

asym_sam4_correction_rms vs run
χ² / ndf 7154 / 44
p0 4320 ± 4.519
7000
6500
6000
5500
5000
4500
4000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

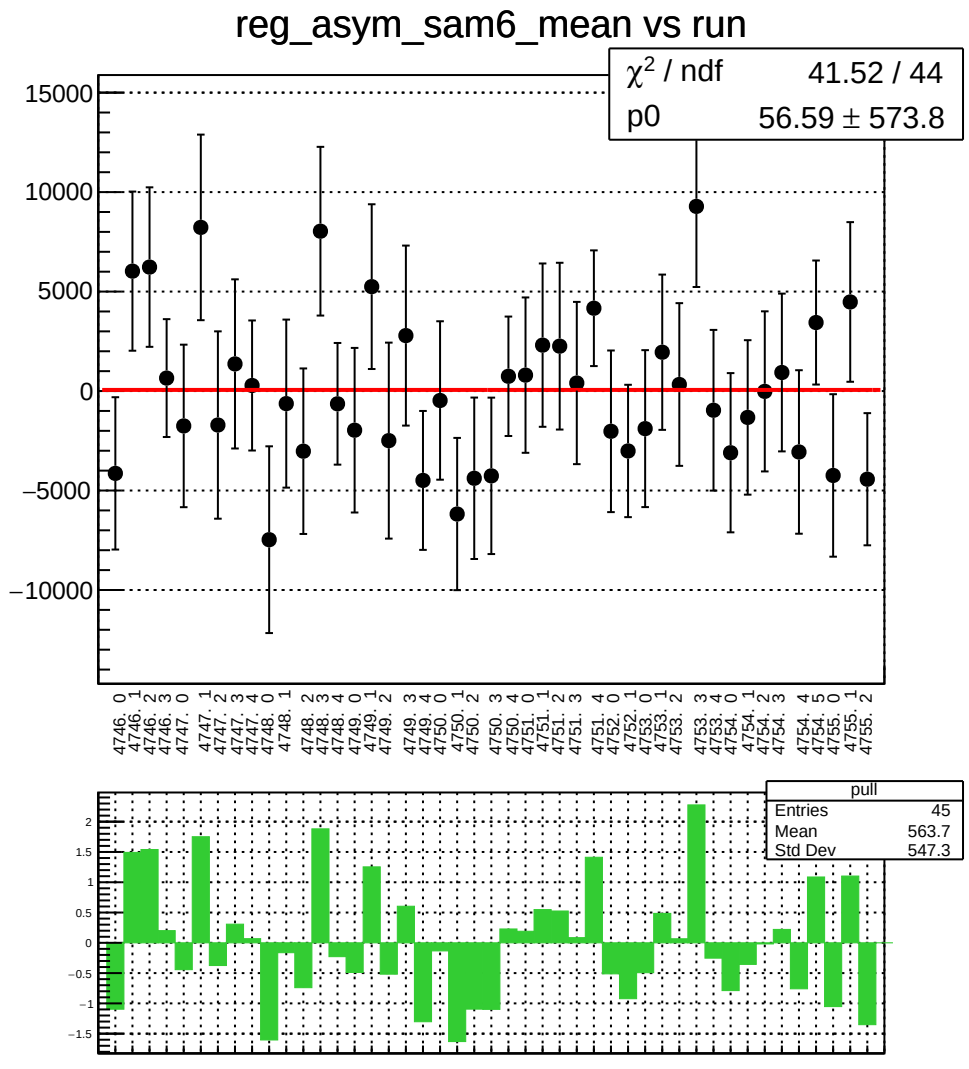

reg_asym_sam5_mean vs run
χ² / ndf 37.74 / 44
p0 −1028 ± 317.2
pull
Entries 45
Mean −29.62
Std Dev 51.99

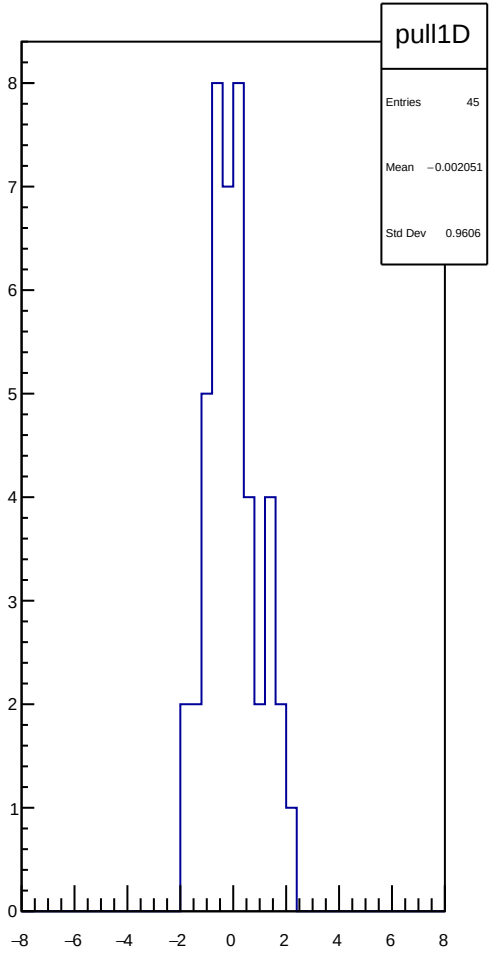

pull1D
Entries 45
Mean 0.01367
Std Dev 0.9157

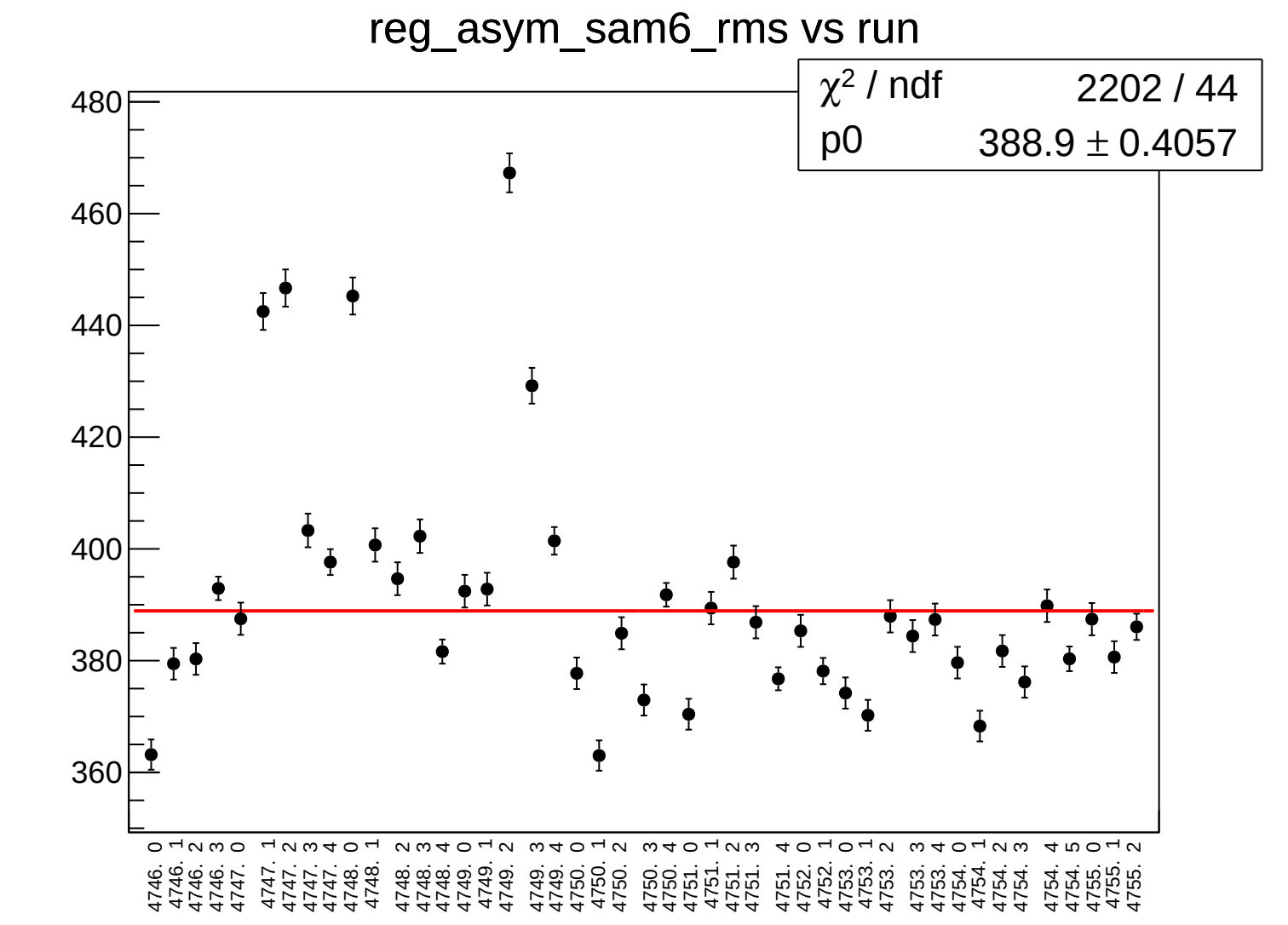

reg_asym_sam5_rms vs run
χ² / ndf 1446 / 44
p0 215.1 ± 0.2243
245
240
235
230
225
220
215
210
205
200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

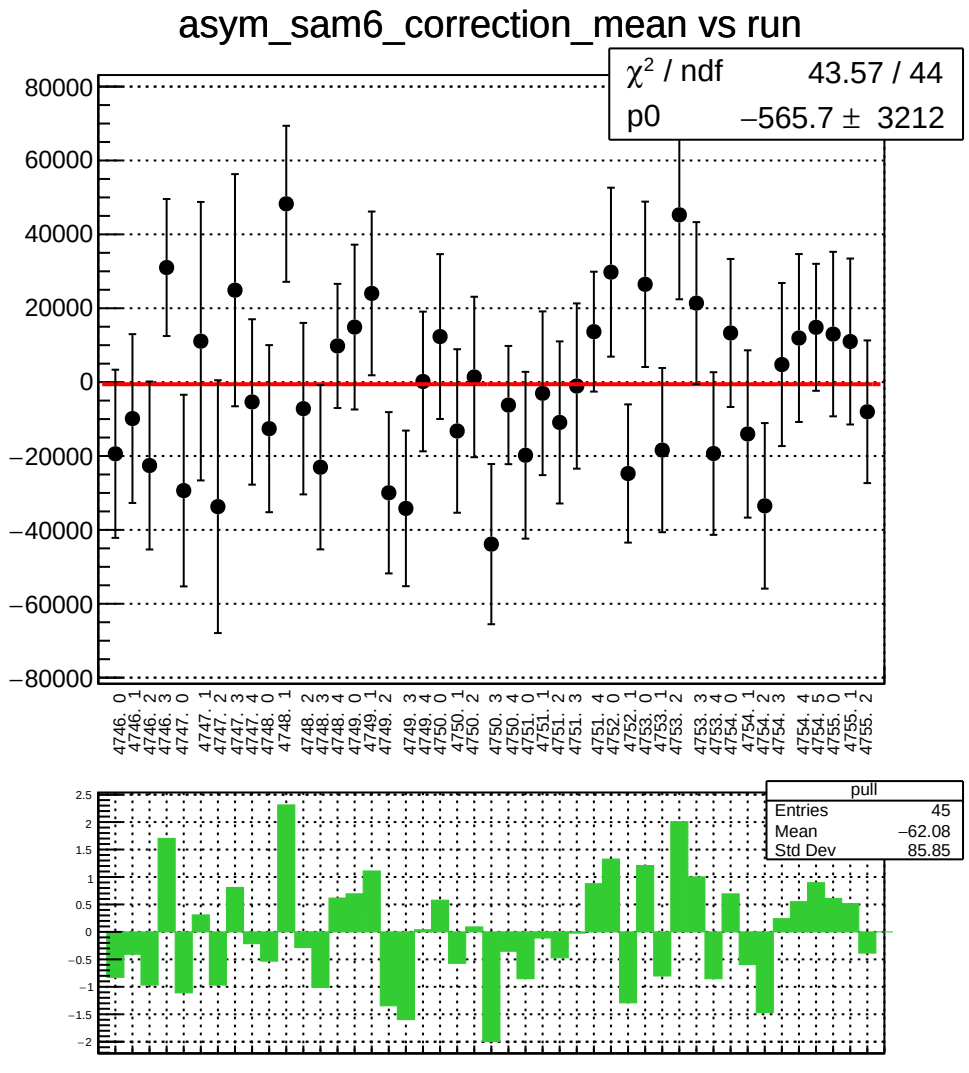

asym_sam5_correction_mean vs run
χ² / ndf 37.44 / 44
p0 275.9 ± 574.3
15000
10000
5000
0
−5000
−10000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 36.97
Std Dev 39.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01397
Std Dev 0.912
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

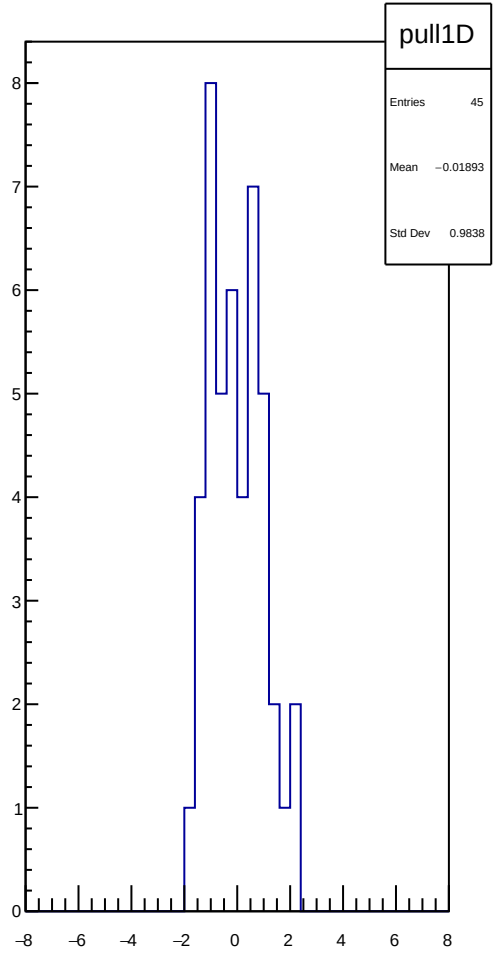

asym_sam5_correction_rms vs run
χ² / ndf 3611 / 44
p0 388.9 ± 0.4061
460
440
420
400
380
360
340
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

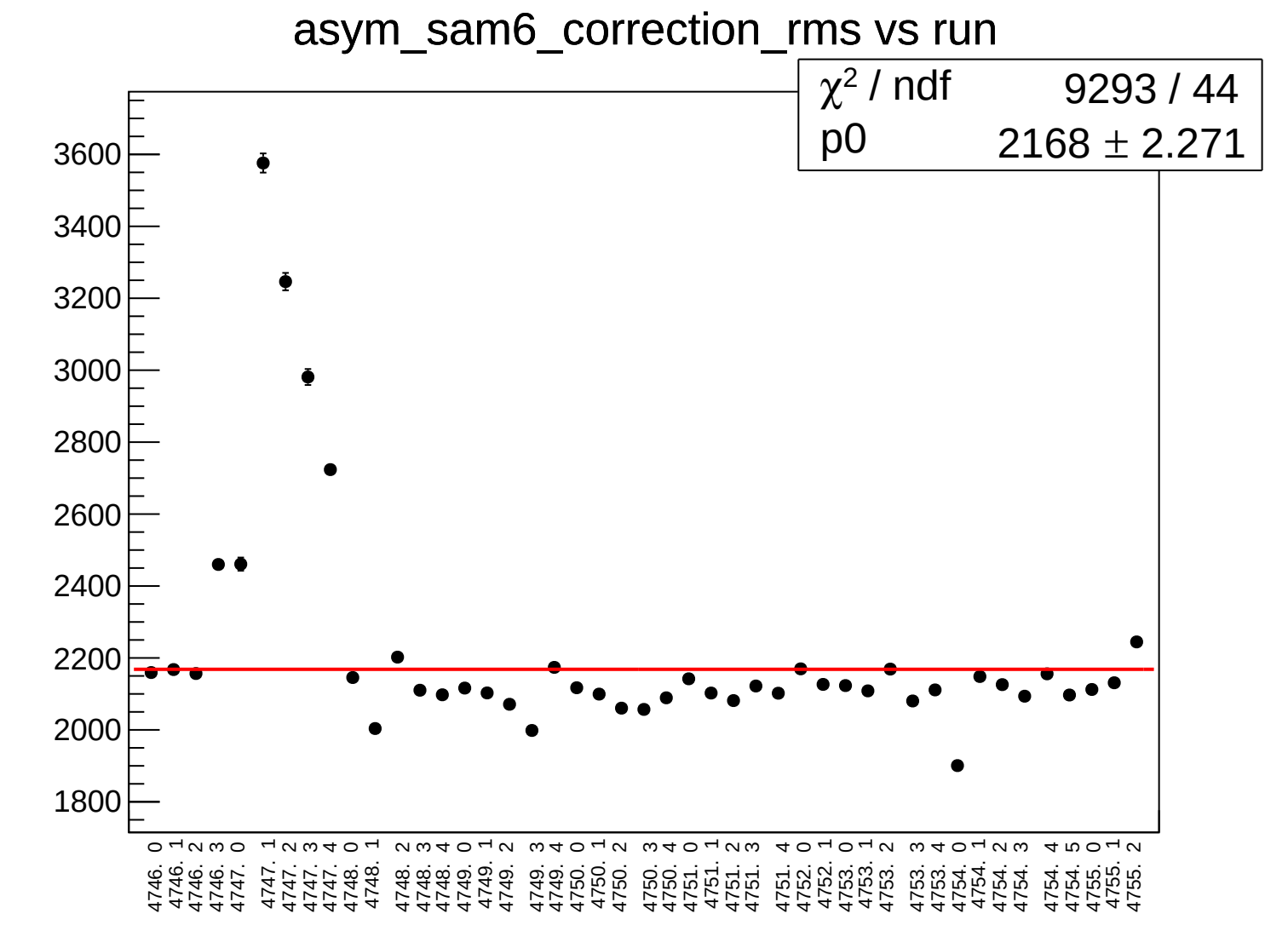

reg_asym_sam6_mean vs run
χ^2 / ndf 41.52 / 44
p0 56.59 ± 573.8
15000
10000
5000
0
−5000
−10000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 563.7
Std Dev 547.3
2
1.5
1
0.5
0
−0.5
−1
−1.5

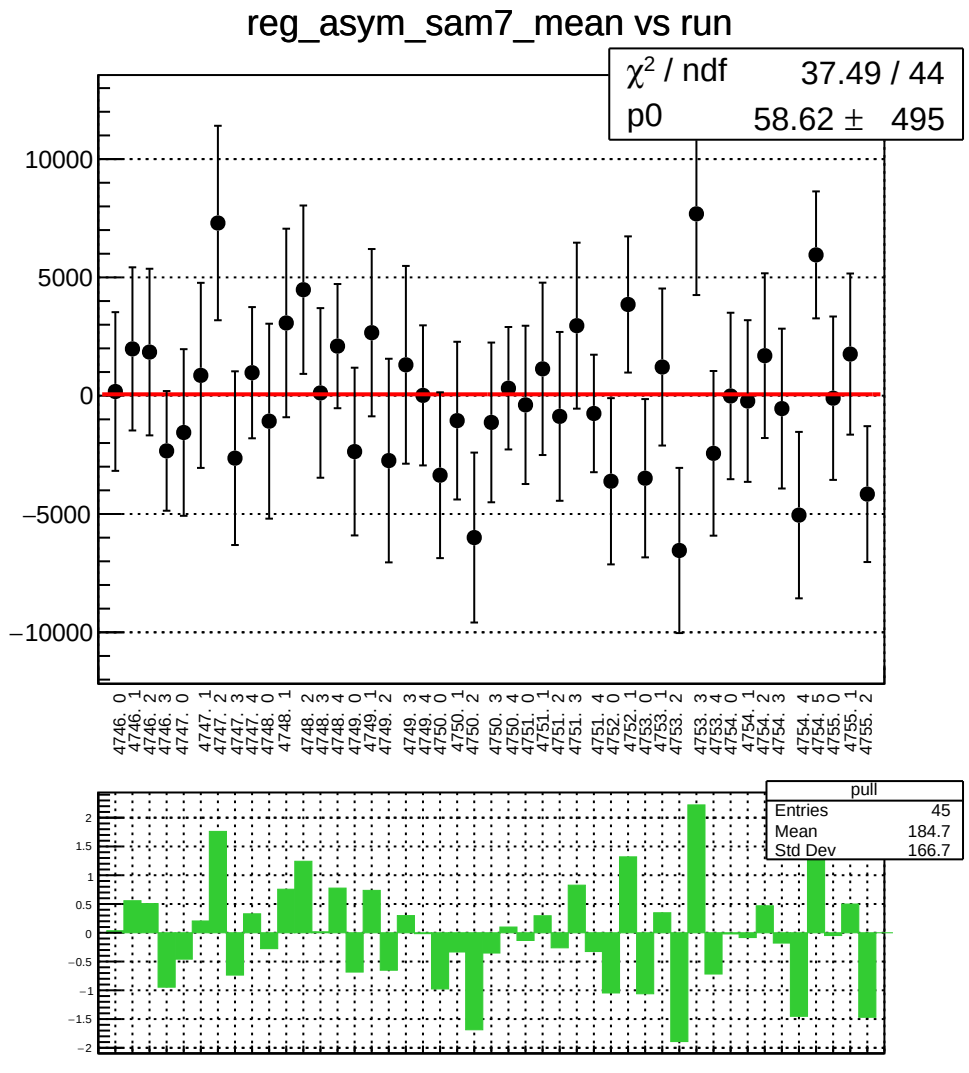

pull1D
Entries 45
Mean −0.002051
Std Dev 0.9606
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

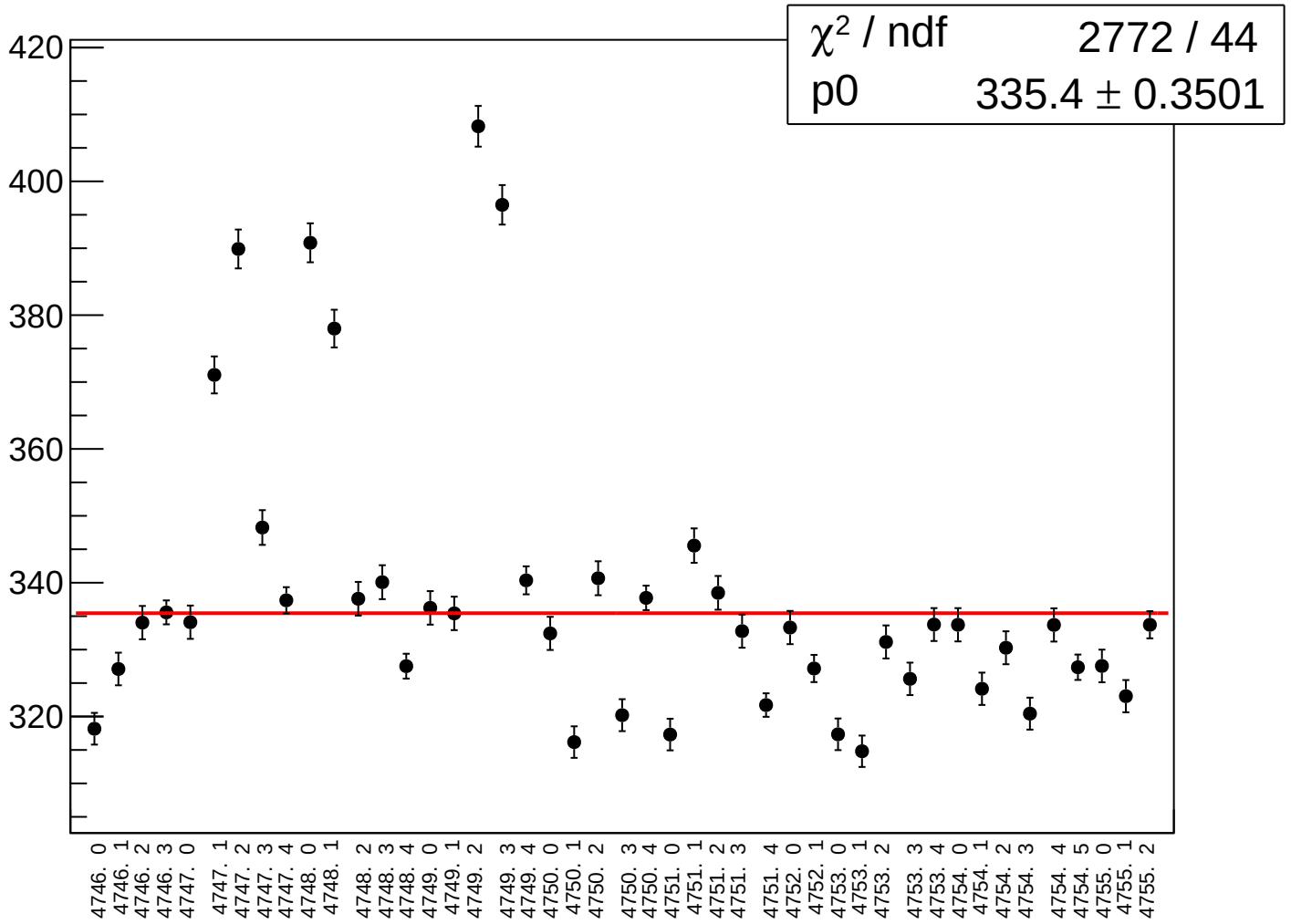

reg_asym_sam6_rms vs run
χ² / ndf 2202 / 44
p0 388.9 ± 0.4057
480
460
440
420
400
380
360
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

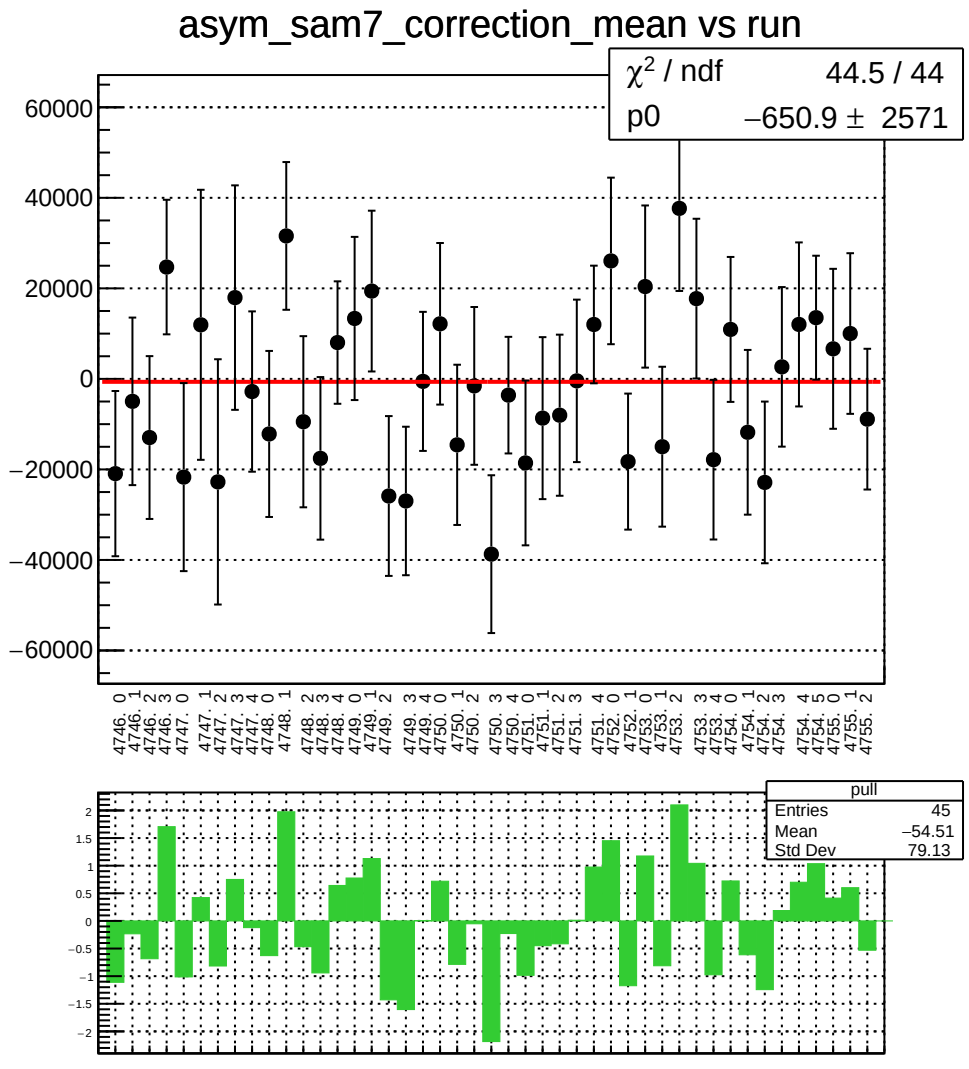

asym_sam6_correction_mean vs run
χ² / ndf 43.57 / 44
p0 −565.7 ± 3212
pull
Entries 45
Mean −62.08
Std Dev 85.85

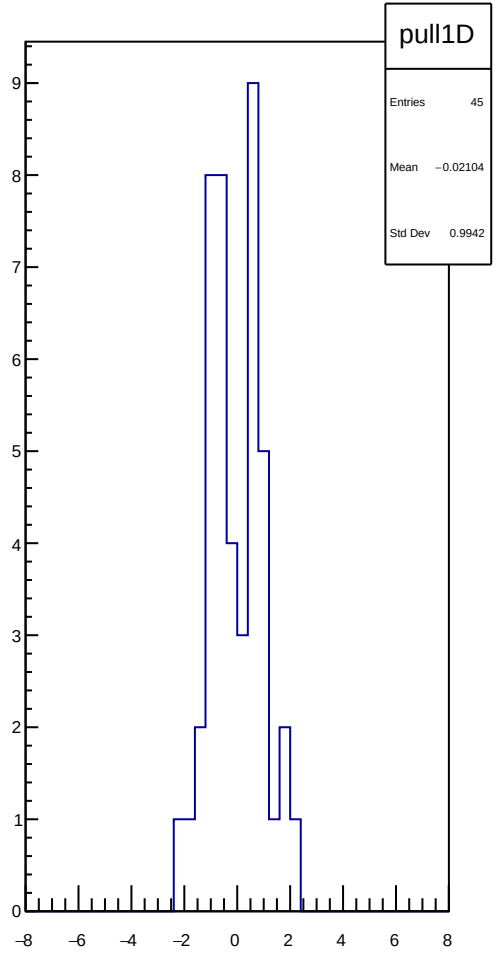

pull1D
Entries 45
Mean −0.01893
Std Dev 0.9838

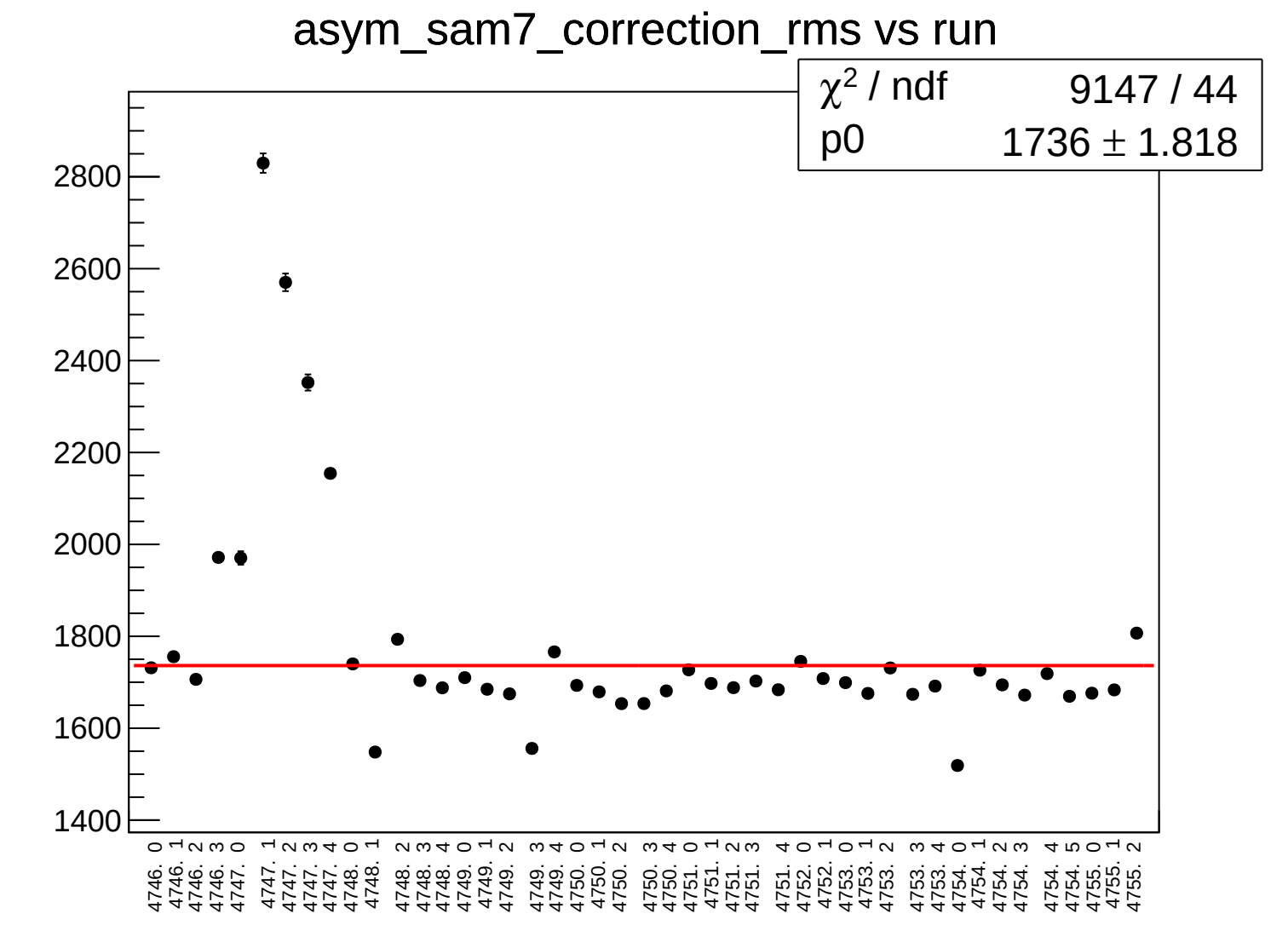

asym_sam6_correction_rms vs run
χ² / ndf 9293 / 44
p0 2168 ± 2.271
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

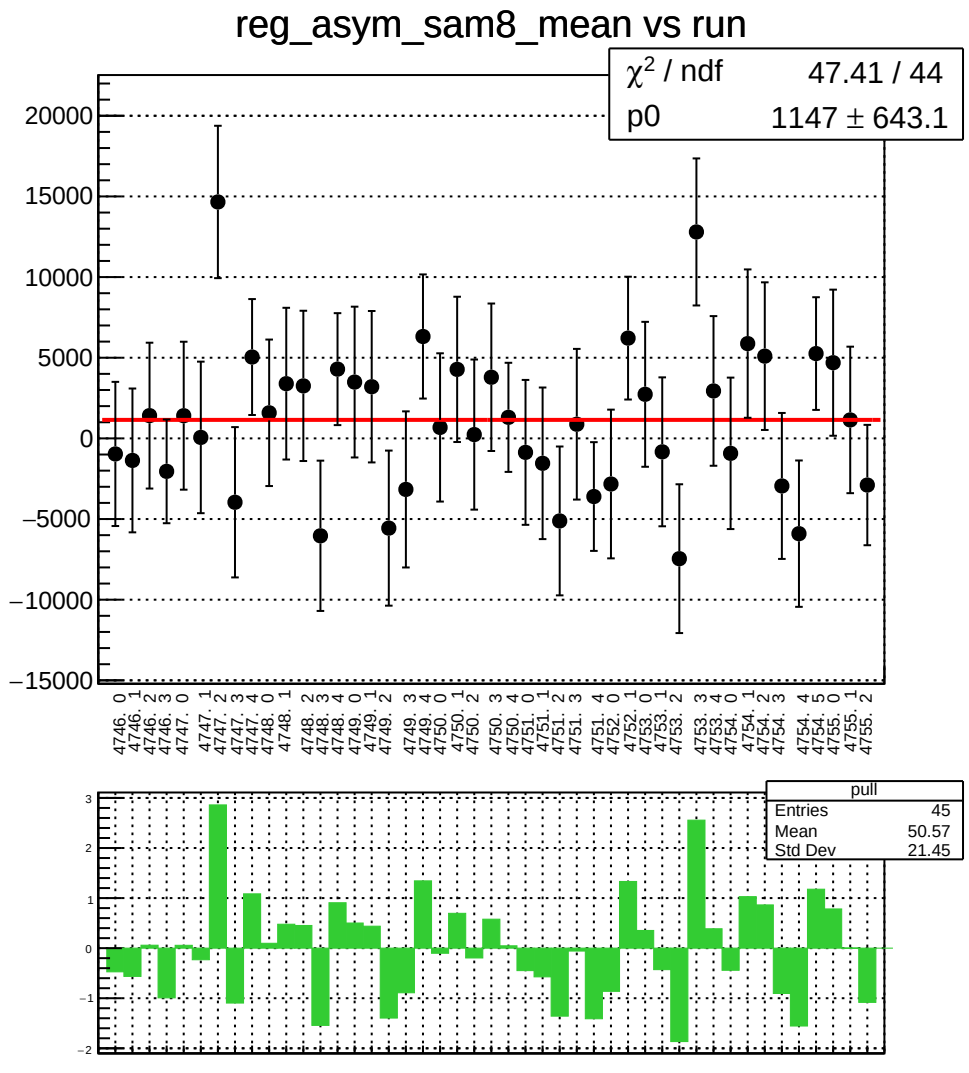

reg_asym_sam7_mean vs run
χ² / ndf 37.49 / 44
p0 58.62 ± 495
10000
5000
0
−5000
−10000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 184.7
Std Dev 166.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.006657
Std Dev 0.9128
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

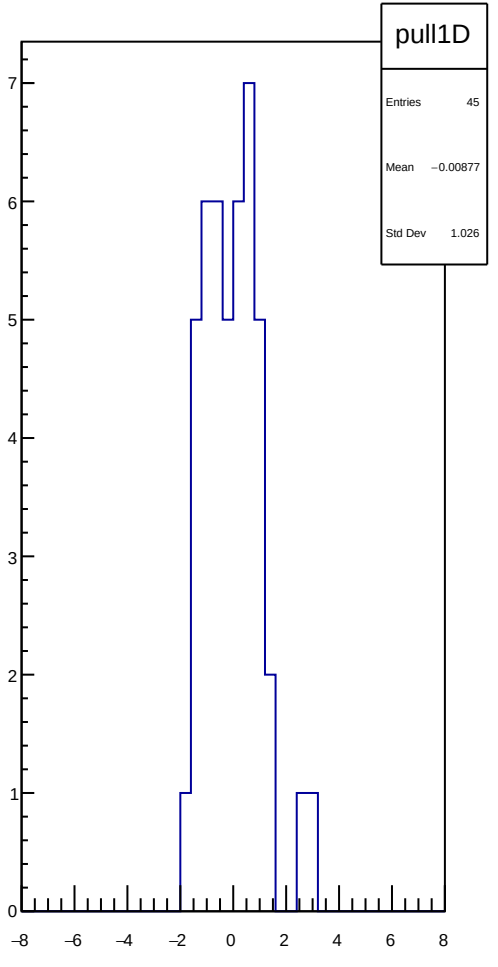

reg_asym_sam7_rms vs run
χ² / ndf 2772 / 44
p0 335.4 ± 0.3501
420
400
380
360
340
320
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

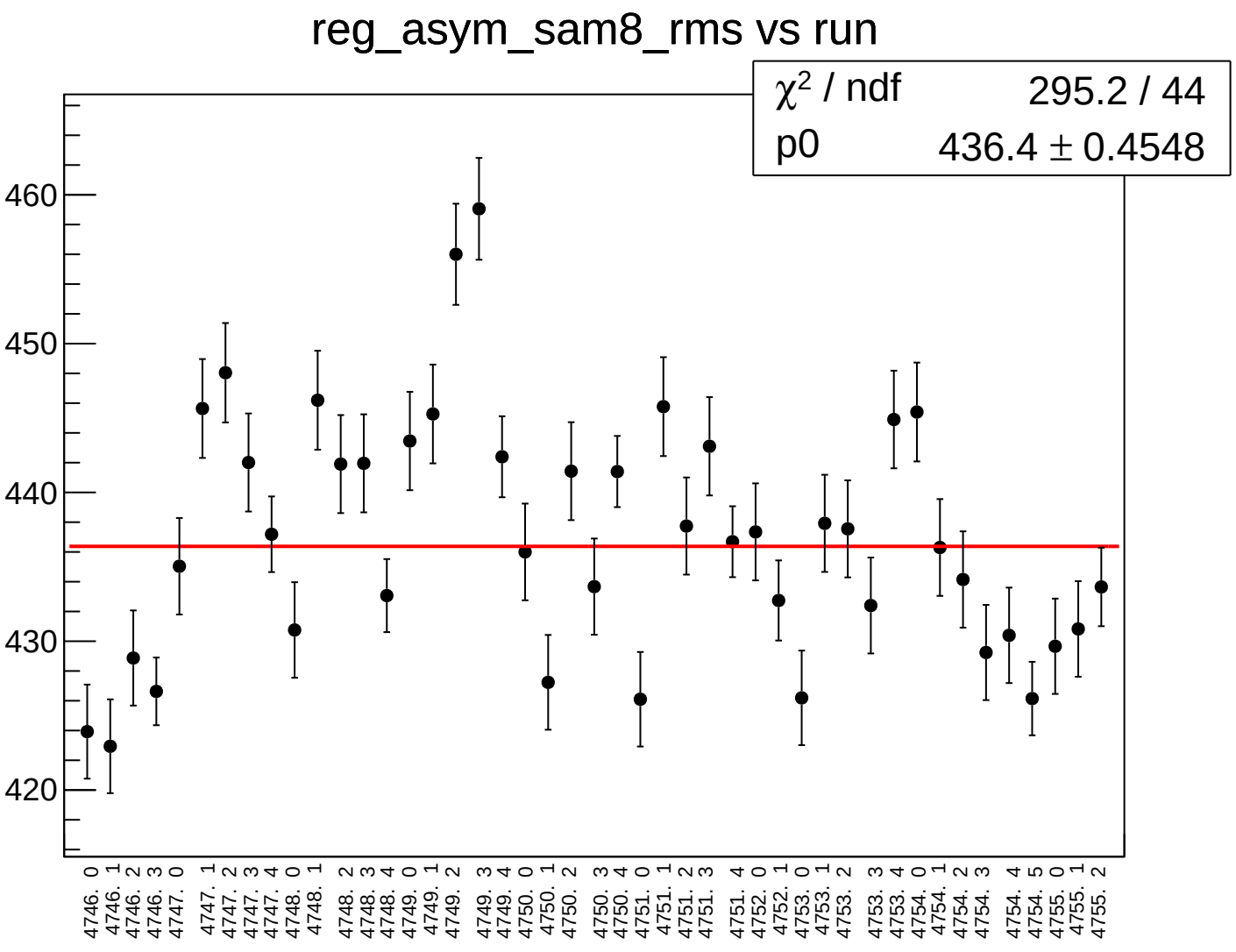

asym_sam7_correction_mean vs run
χ² / ndf 44.5 / 44
p0 −650.9 ± 2571
60000
40000
20000
0
−20000
−40000
−60000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −54.51
Std Dev 79.13
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

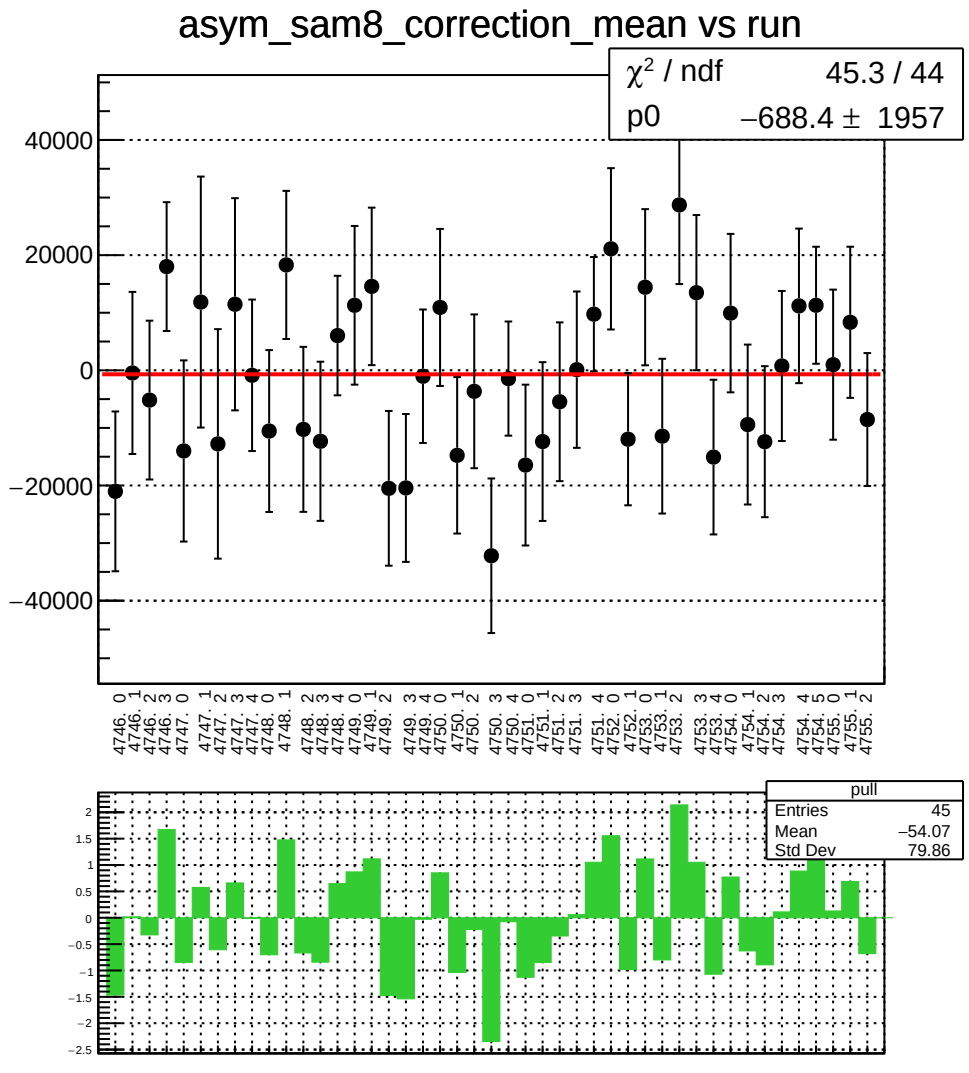

pull1D
Entries 45
Mean −0.02104
Std Dev 0.9942
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

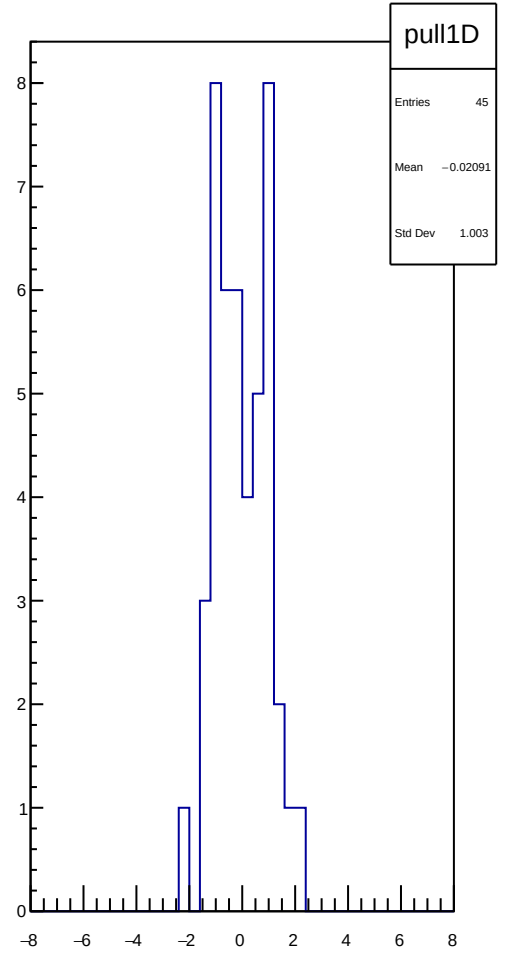

asym_sam7_correction_rms vs run
χ² / ndf 9147 / 44
p0 1736 ± 1.818
2800
2600
2400
2200
2000
1800
1600
1400
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

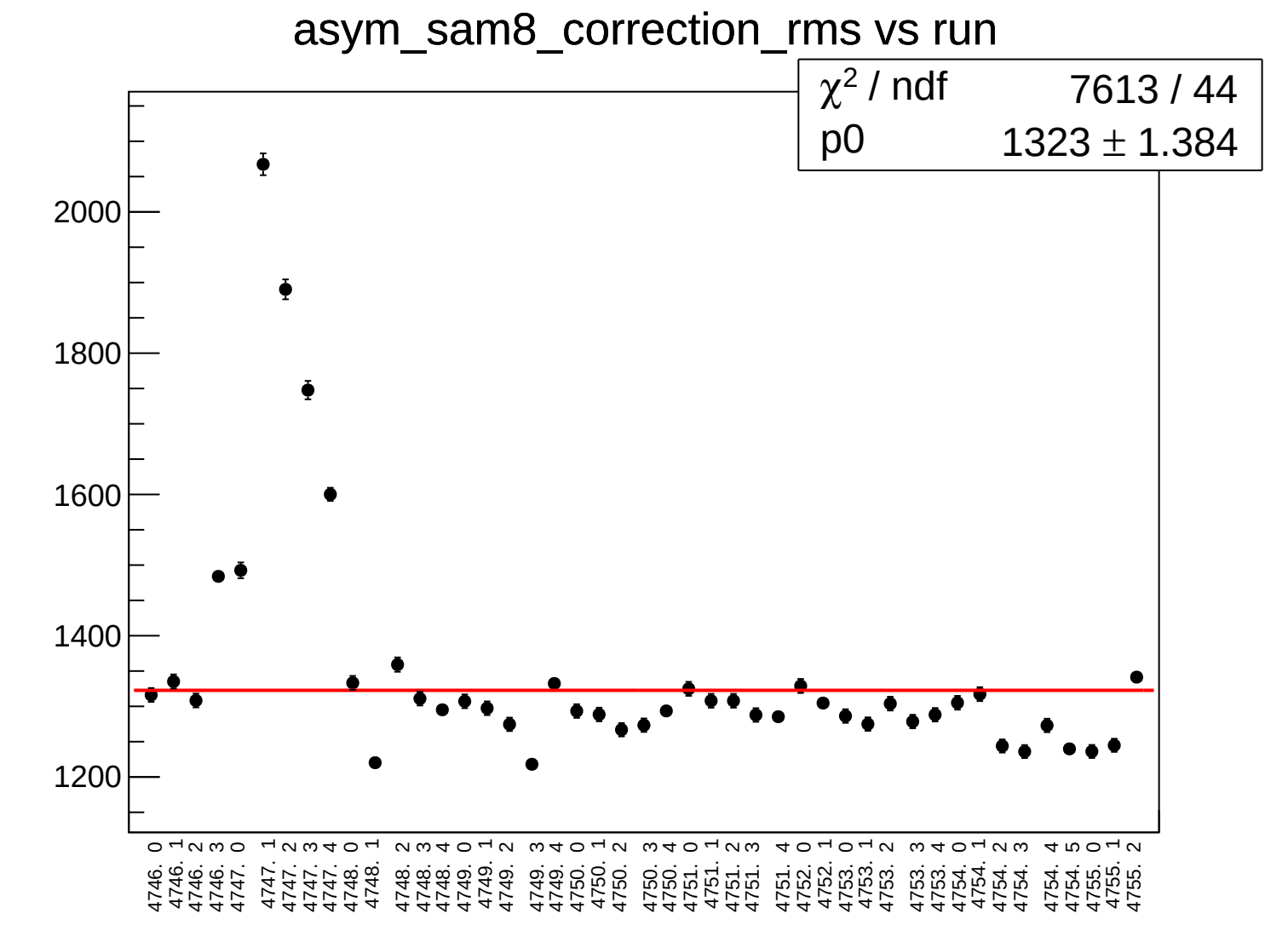

reg_asym_sam8_mean vs run
χ² / ndf 47.41 / 44
p0 1147 ± 643.1
20000
15000
10000
5000
0
−5000
−10000
−15000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 50.57
Std Dev 21.45
3
2
1
0
−1
−2

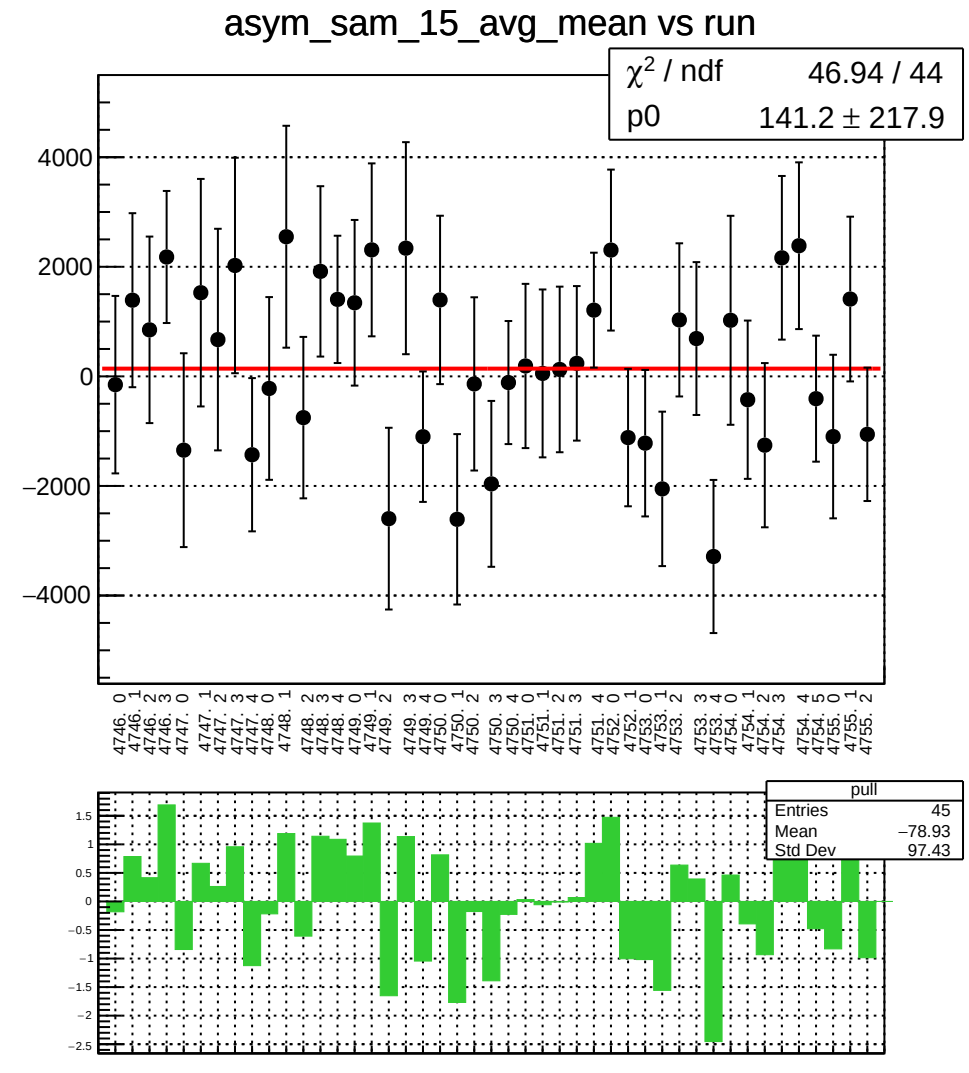

pull1D
Entries 45
Mean −0.00877
Std Dev 1.026
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

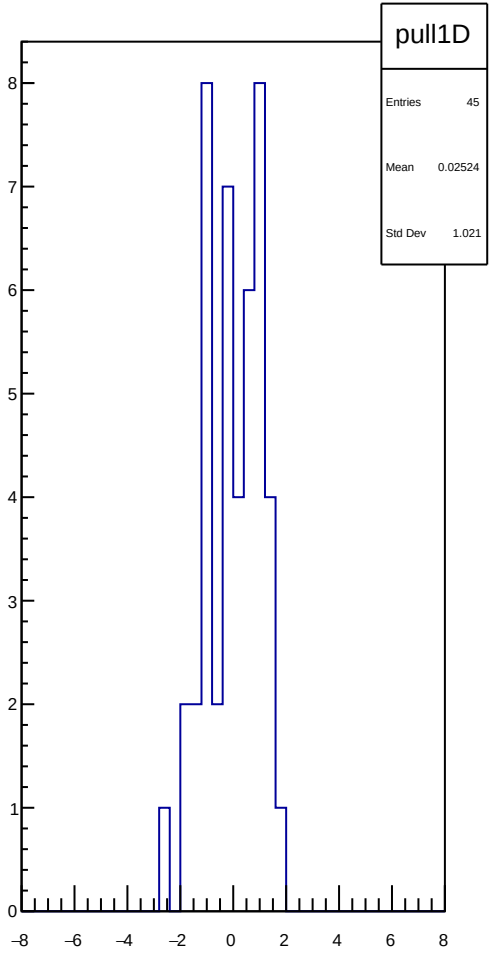

reg_asym_sam8_rms vs run
χ² / ndf 295.2 / 44
p0 436.4 ± 0.4548
460
450
440
430
420
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

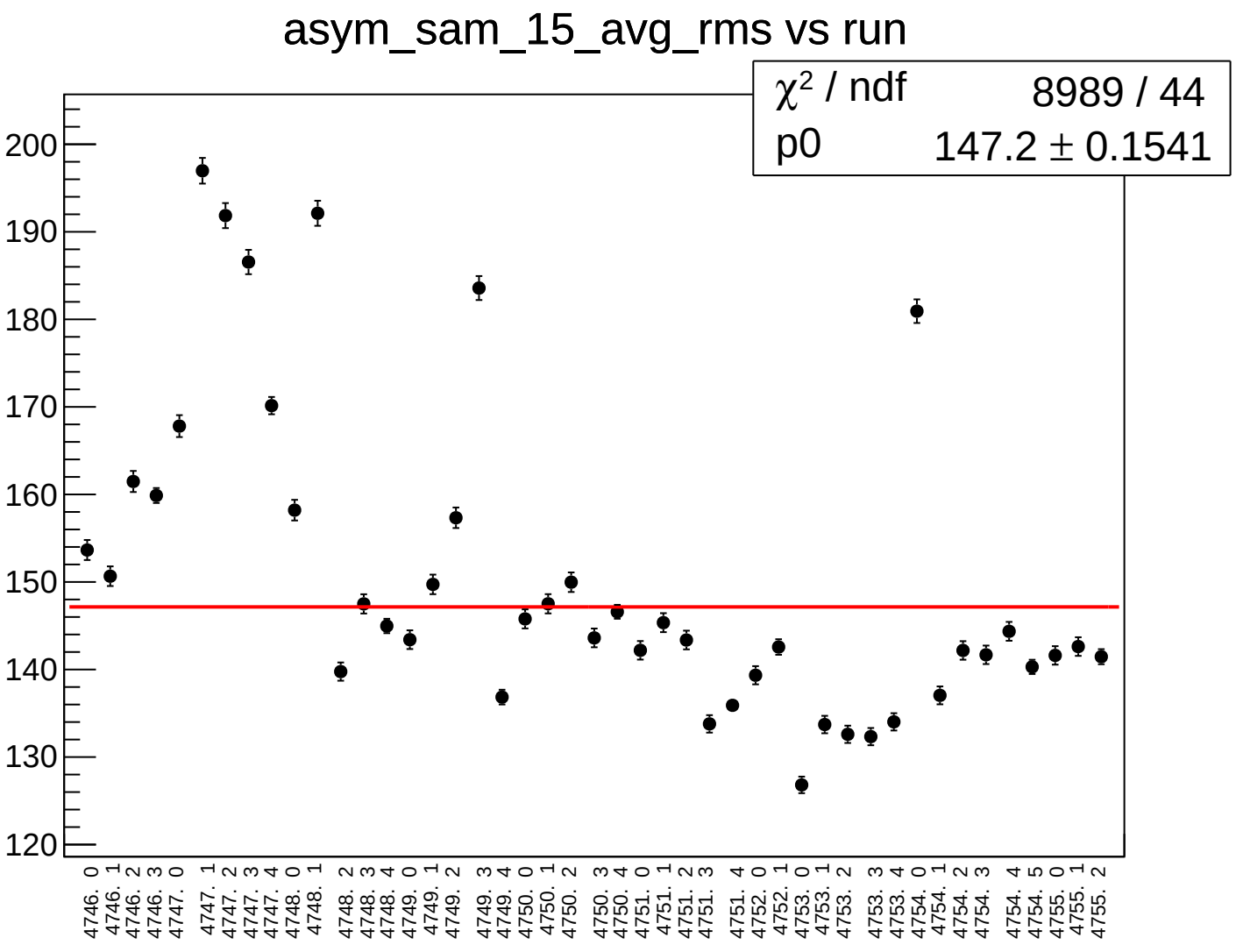

asym_sam8_correction_mean vs run
χ² / ndf 45.3 / 44
p0 −688.4 ± 1957
40000
20000
0
−20000
−40000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −54.07
Std Dev 79.86
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

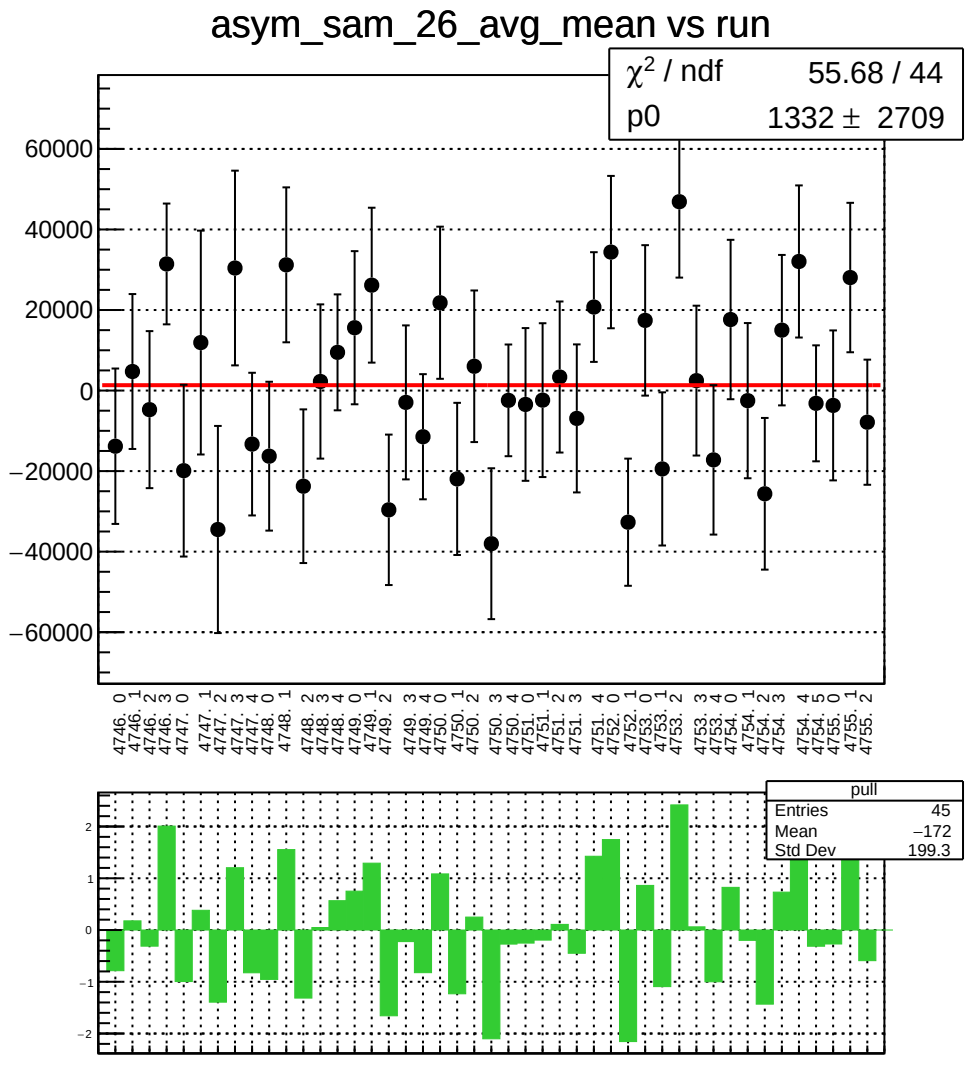

pull1D
Entries 45
Mean −0.02091
Std Dev 1.003
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

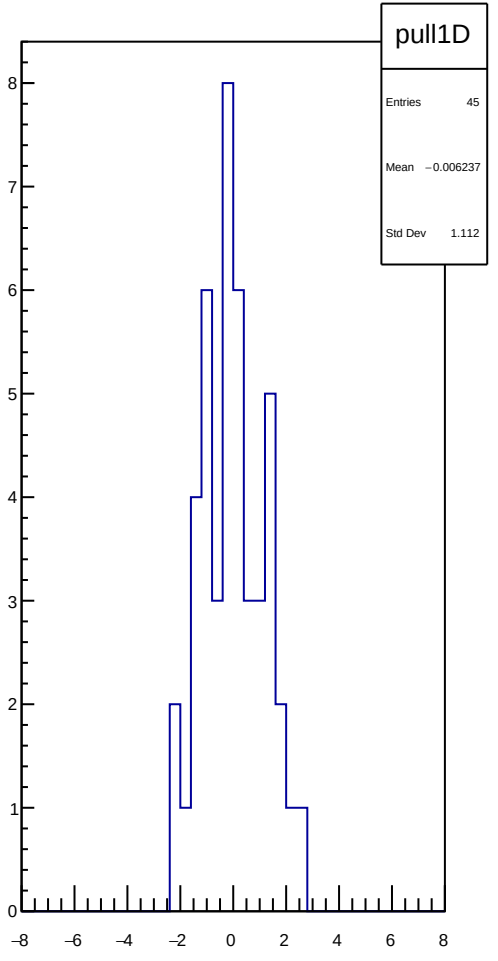

asym_sam8_correction_rms vs run
χ² / ndf 7613 / 44
p0 1323 ± 1.384
2000
1800
1600
1400
1200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

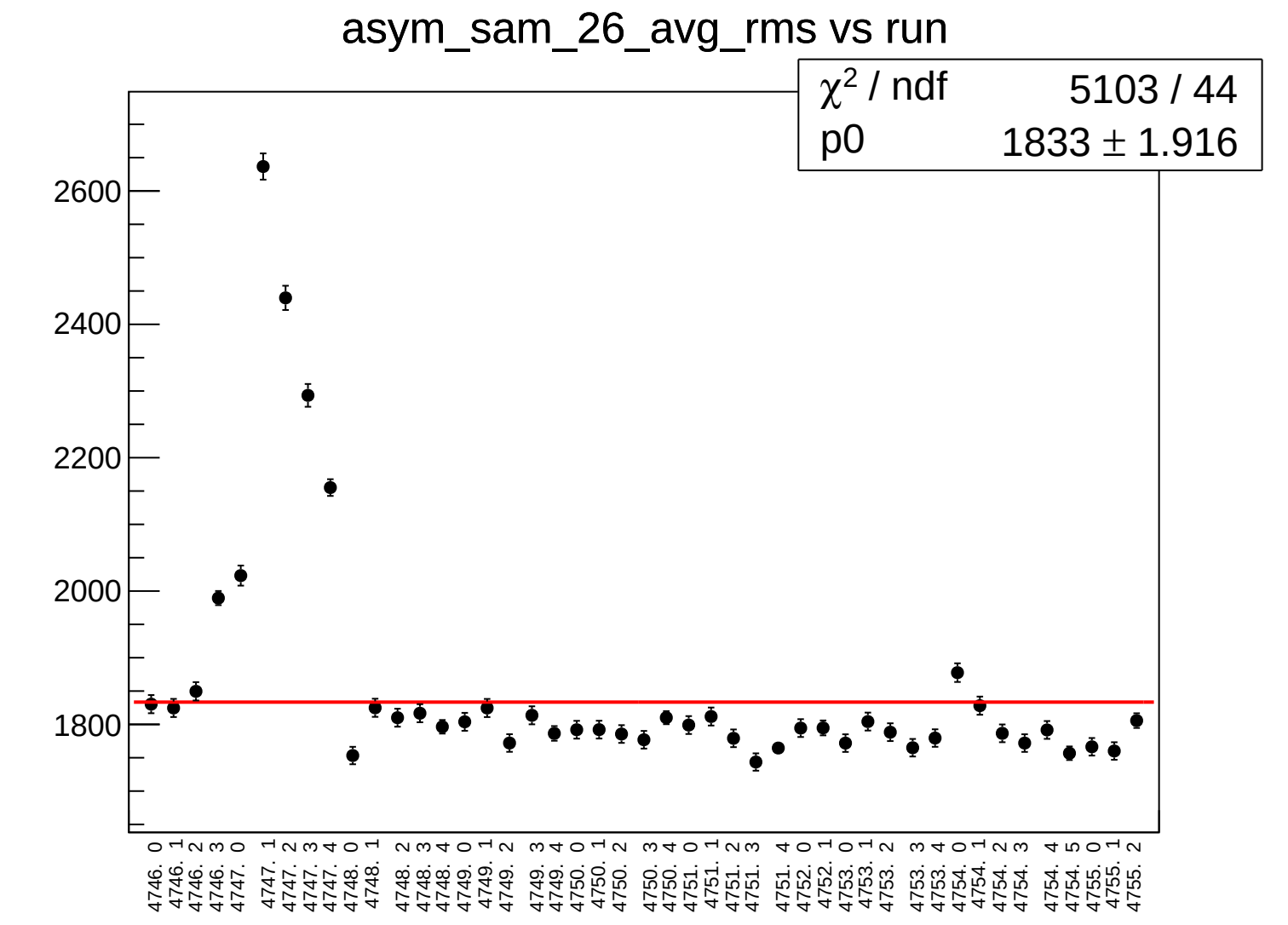

asym_sam_15_avg_mean vs run
χ² / ndf 46.94 / 44
p0 141.2 ± 217.9
4000
2000
0
−2000
−4000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −78.93
Std Dev 97.43
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

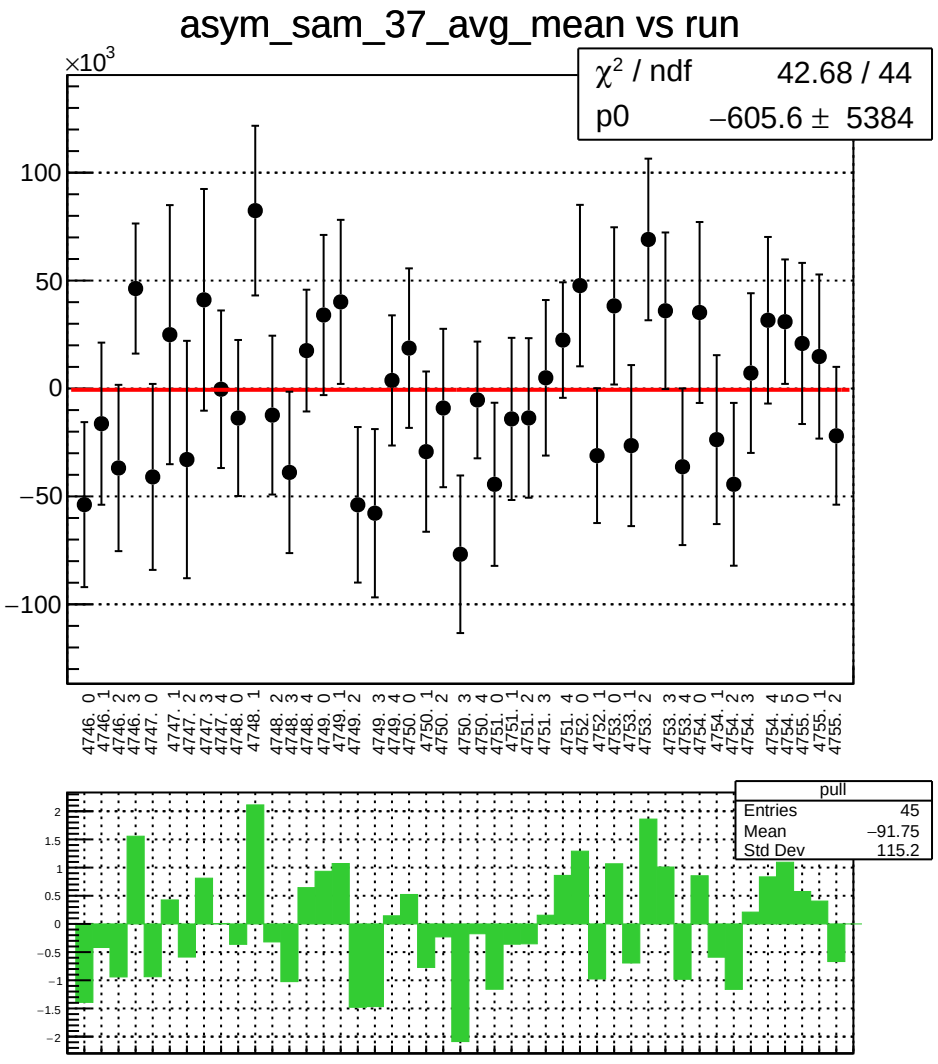

pull1D
Entries 45
Mean 0.02524
Std Dev 1.021
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

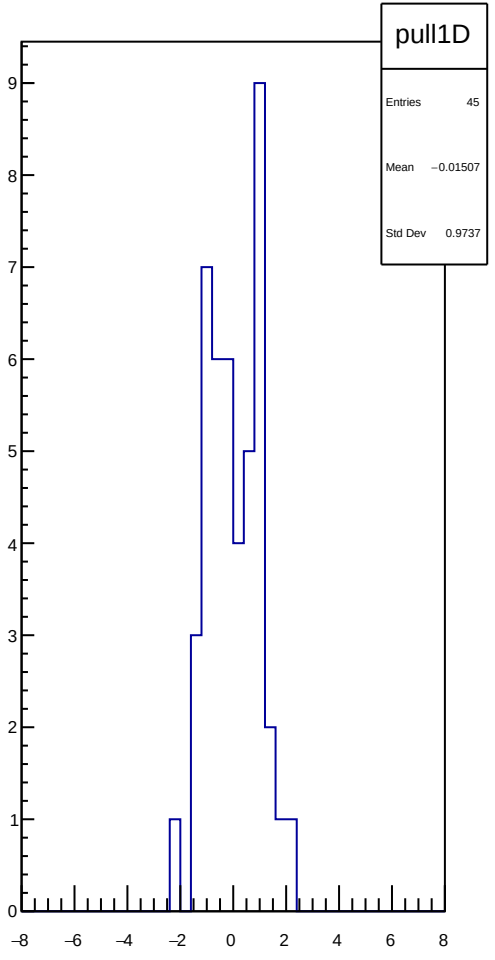

asym_sam_15_avg_rms vs run
χ² / ndf 8989 / 44
p0 147.2 ± 0.1541
200
190
180
170
160
150
140
130
120
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

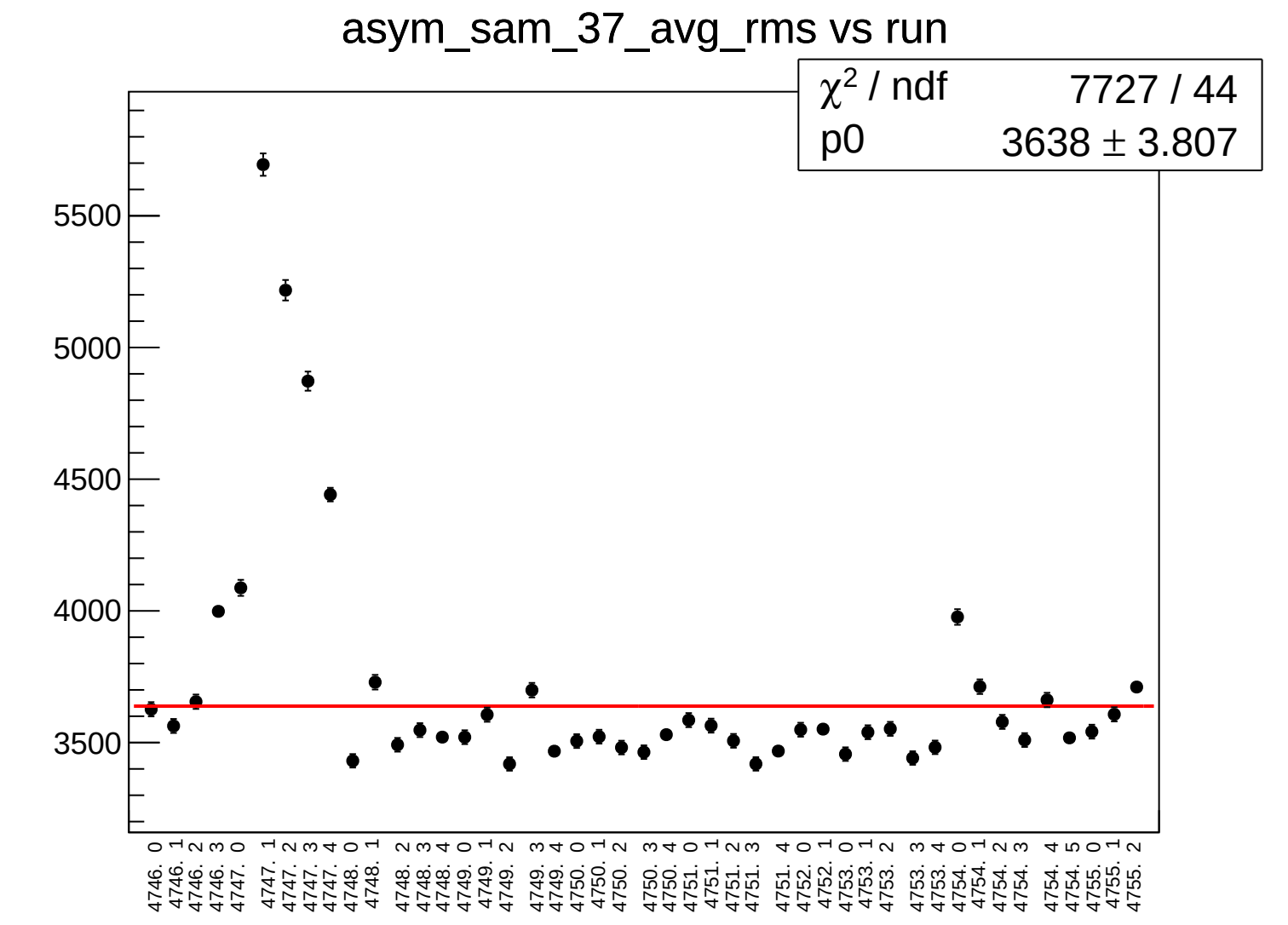

asym_sam_26_avg_mean vs run
χ² / ndf 55.68 / 44
p0 1332 ± 2709
60000
40000
20000
0
−20000
−40000
−60000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −172
Std Dev 199.3
2
1
0
−1
−2

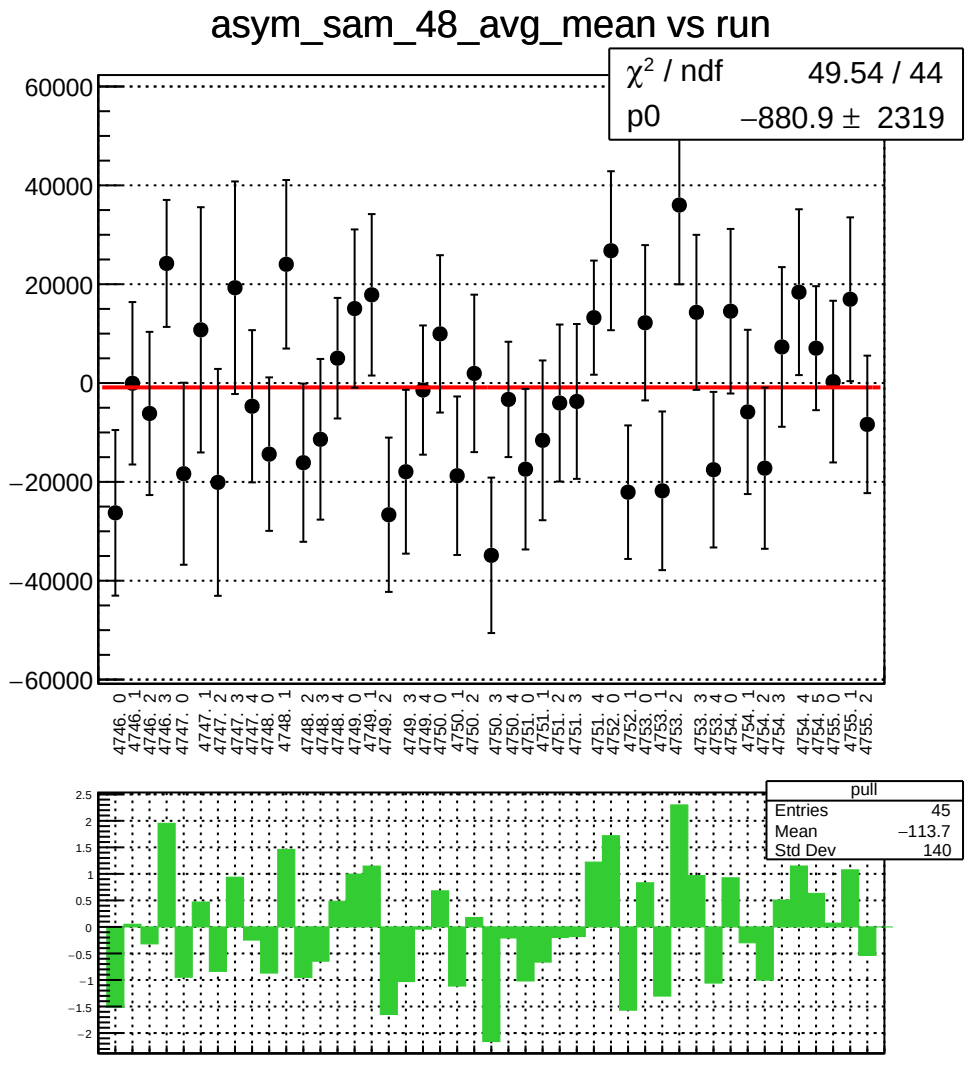

pull1D
Entries 45
Mean −0.006237
Std Dev 1.112
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

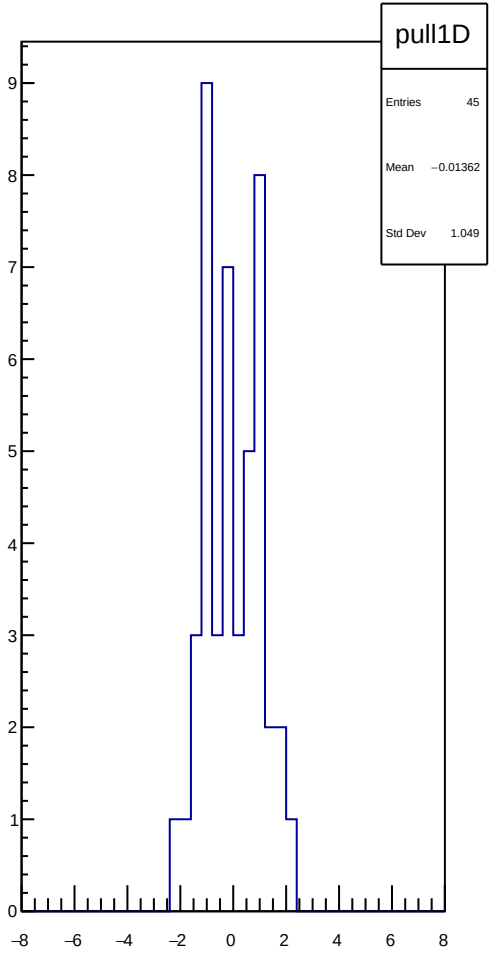

asym_sam_26_avg_rms vs run
χ² / ndf 5103 / 44
p0 1833 ± 1.916
2600
2400
2200
2000
1800
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2


asym_sam_37_avg_mean vs run
×10^3
χ² / ndf 42.68 / 44
p0 −605.6 ± 5384
100
50
0
−50
−100
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −91.75
Std Dev 115.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01507
Std Dev 0.9737
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_avg_rms vs run
χ^2 / ndf 7727 / 44
p0 3638 ± 3.807
5500
5000
4500
4000
3500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2


asym_sam_48_avg_mean vs run
χ² / ndf 49.54 / 44
p0 −880.9 ± 2319
60000
40000
20000
0
−20000
−40000
−60000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −113.7
Std Dev 140
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01362
Std Dev 1.049
9
8
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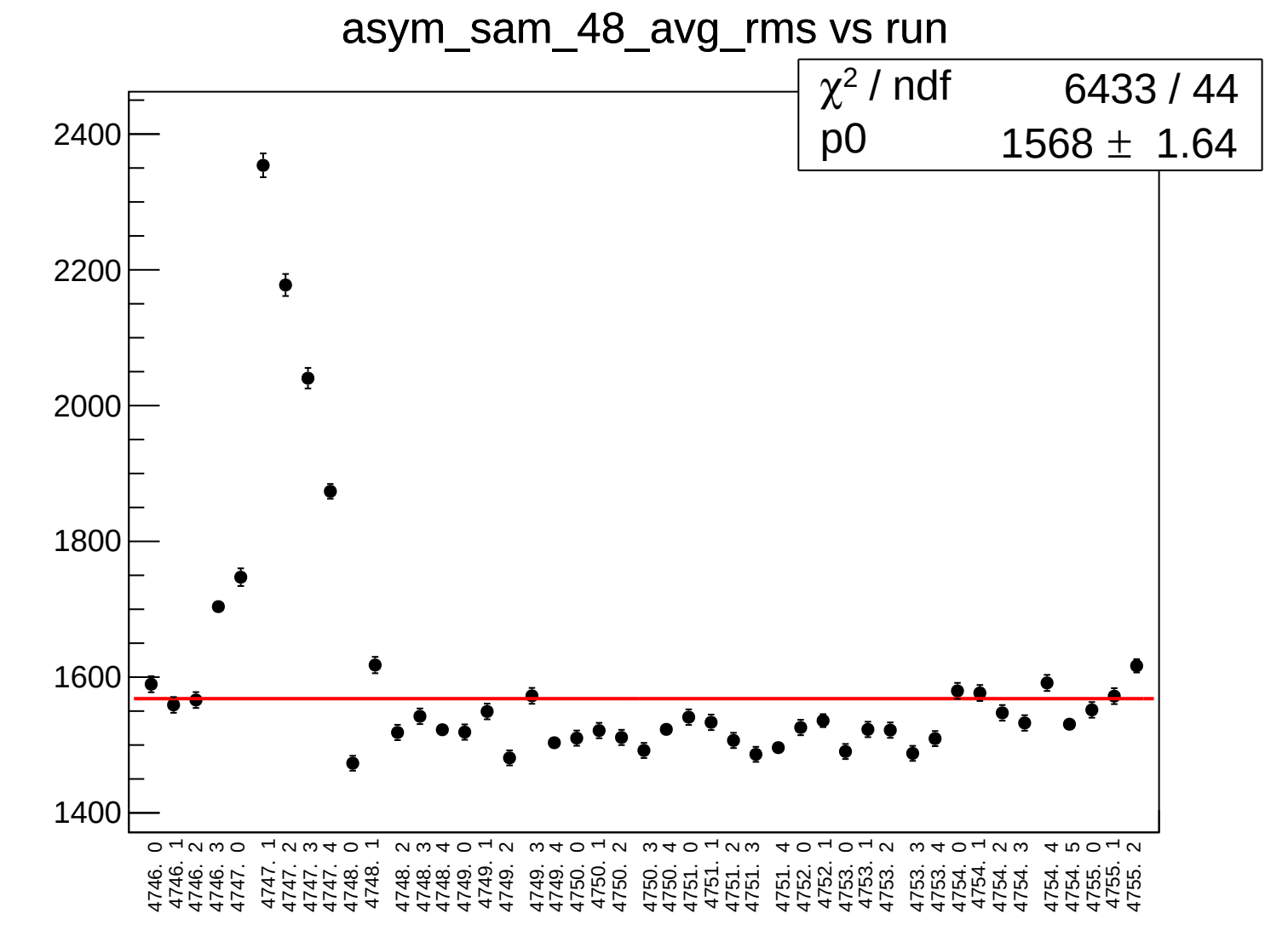
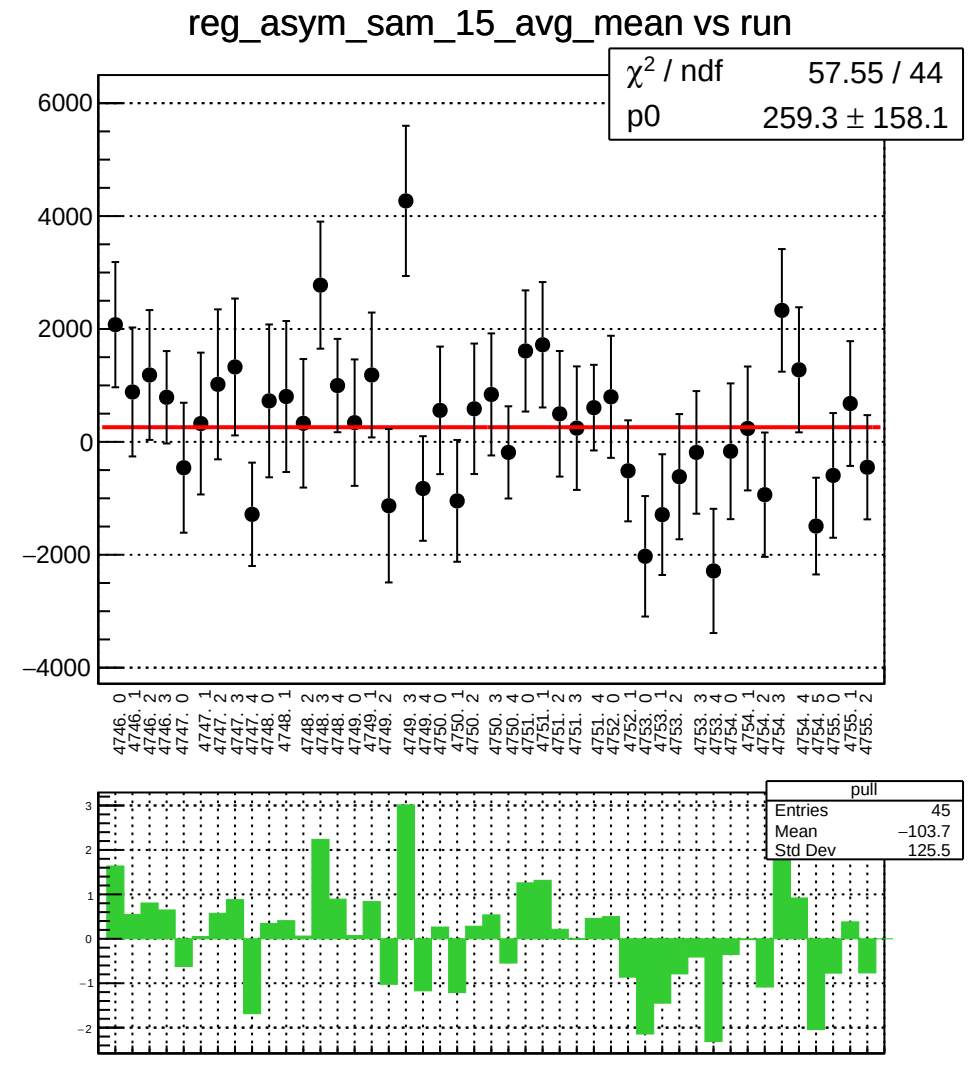
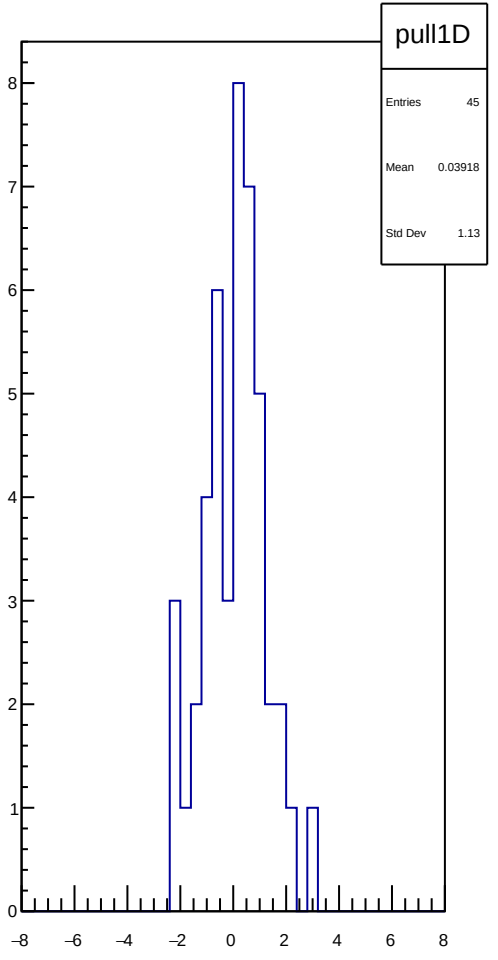
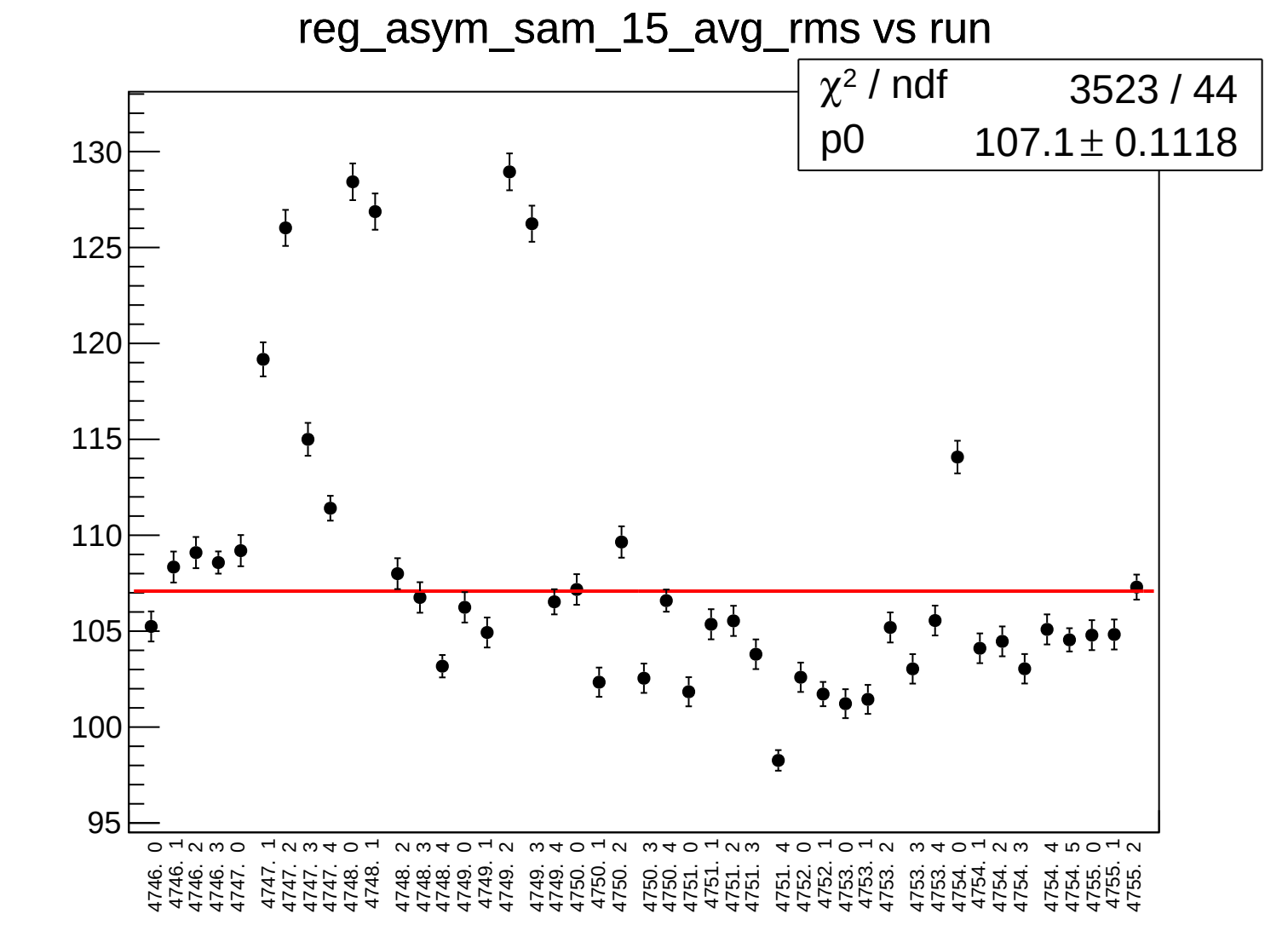
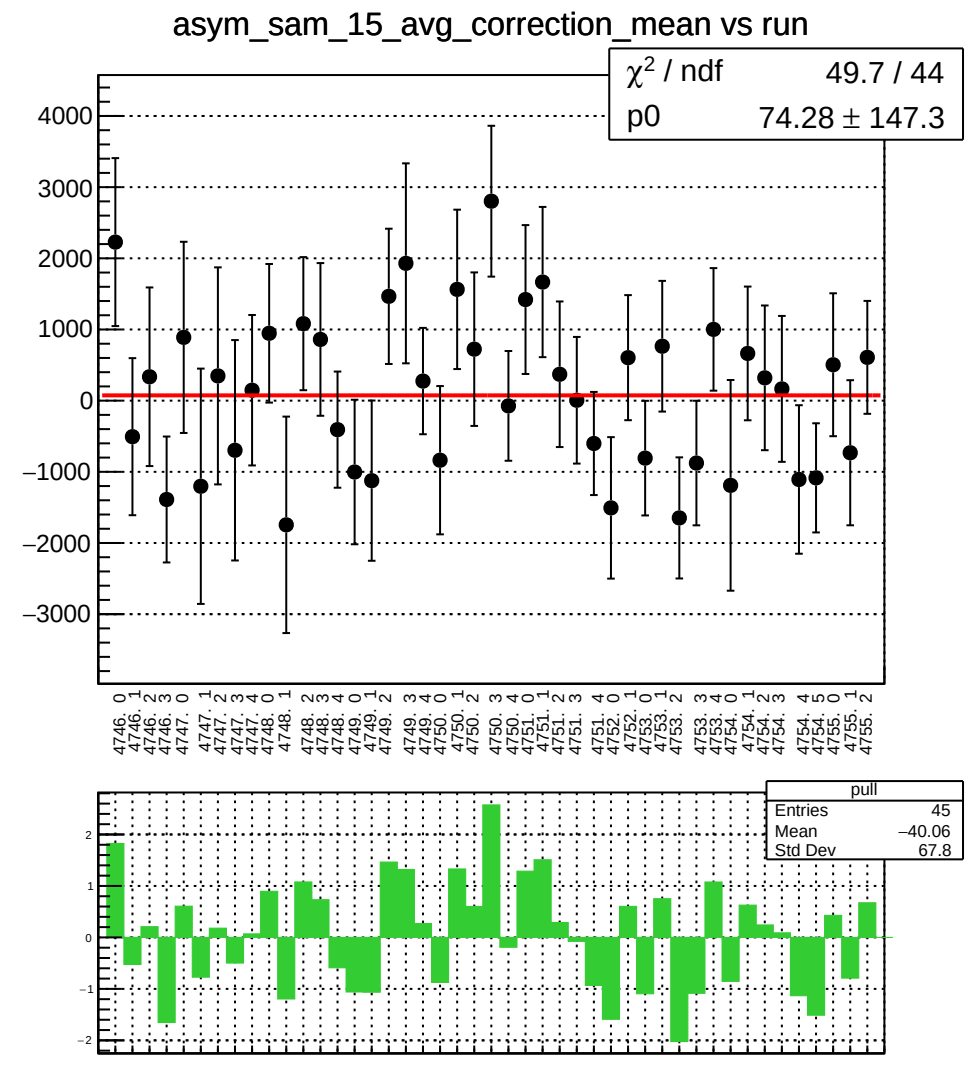
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

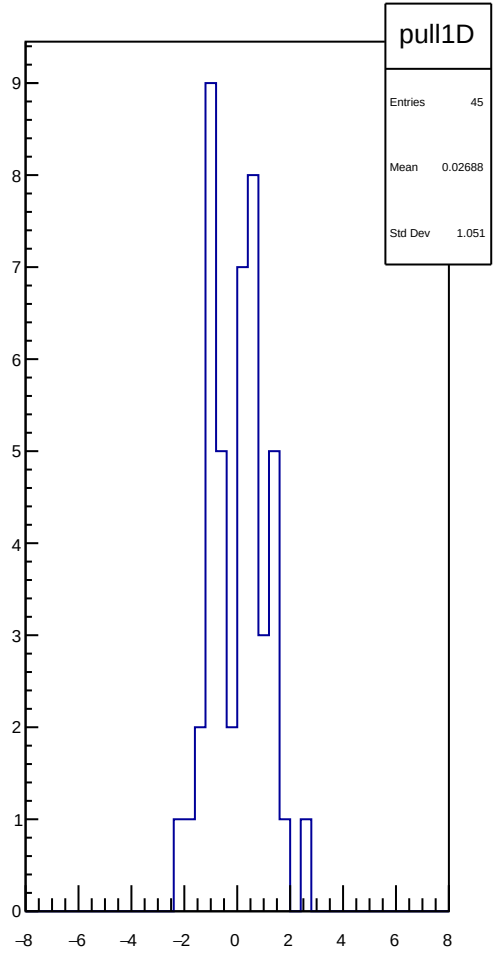

asym_sam_48_avg_rms vs run
χ² / ndf 6433 / 44
p0 1568 ± 1.64
2400
2200
2000
1800
1600
1400
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

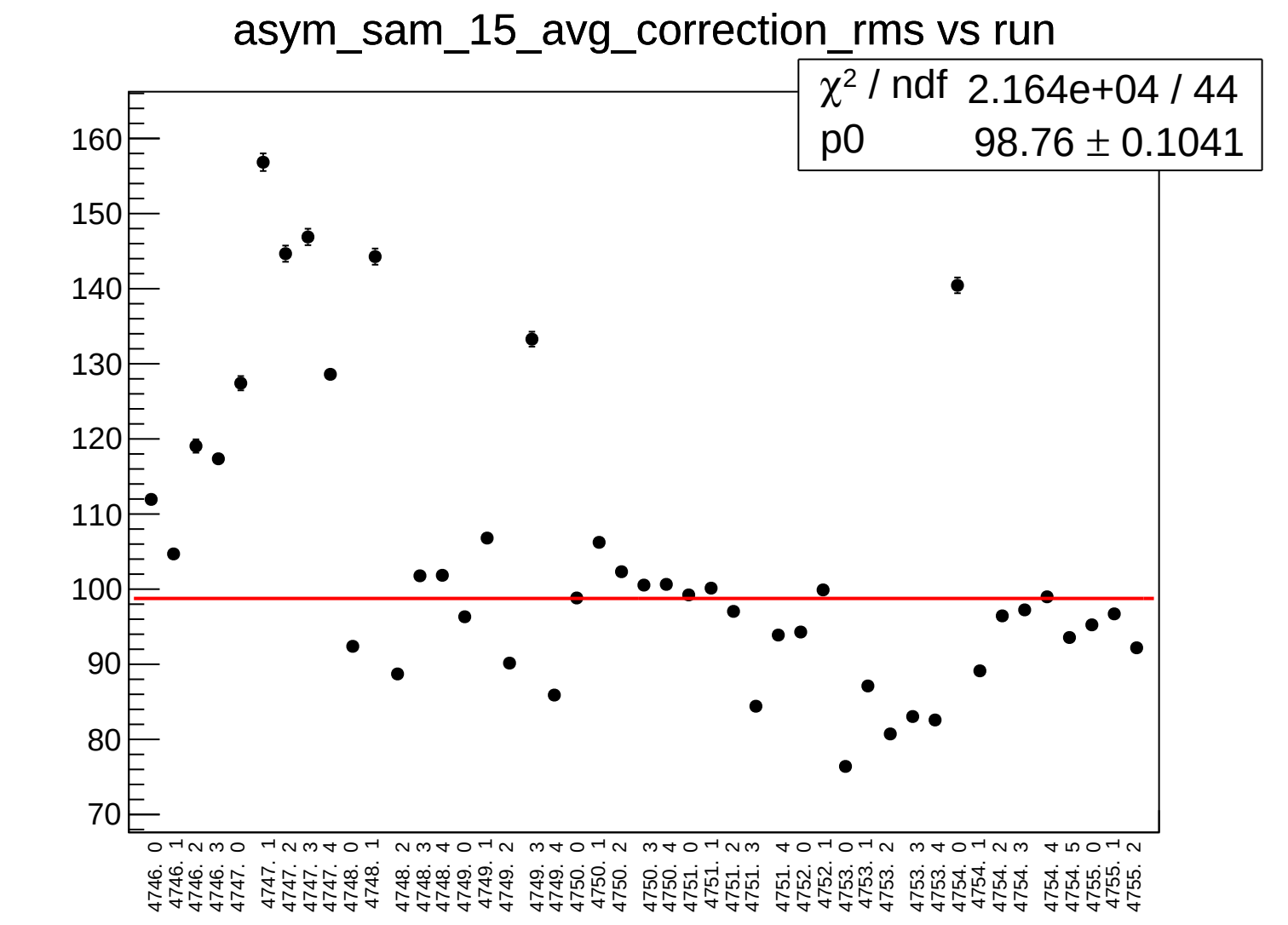

reg_asym_sam_15_avg_mean vs run
χ² / ndf 57.55 / 44
p0 259.3 ± 158.1
6000
4000
2000
0
−2000
−4000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −103.7
Std Dev 125.5
3
2
1
0
−1
−2

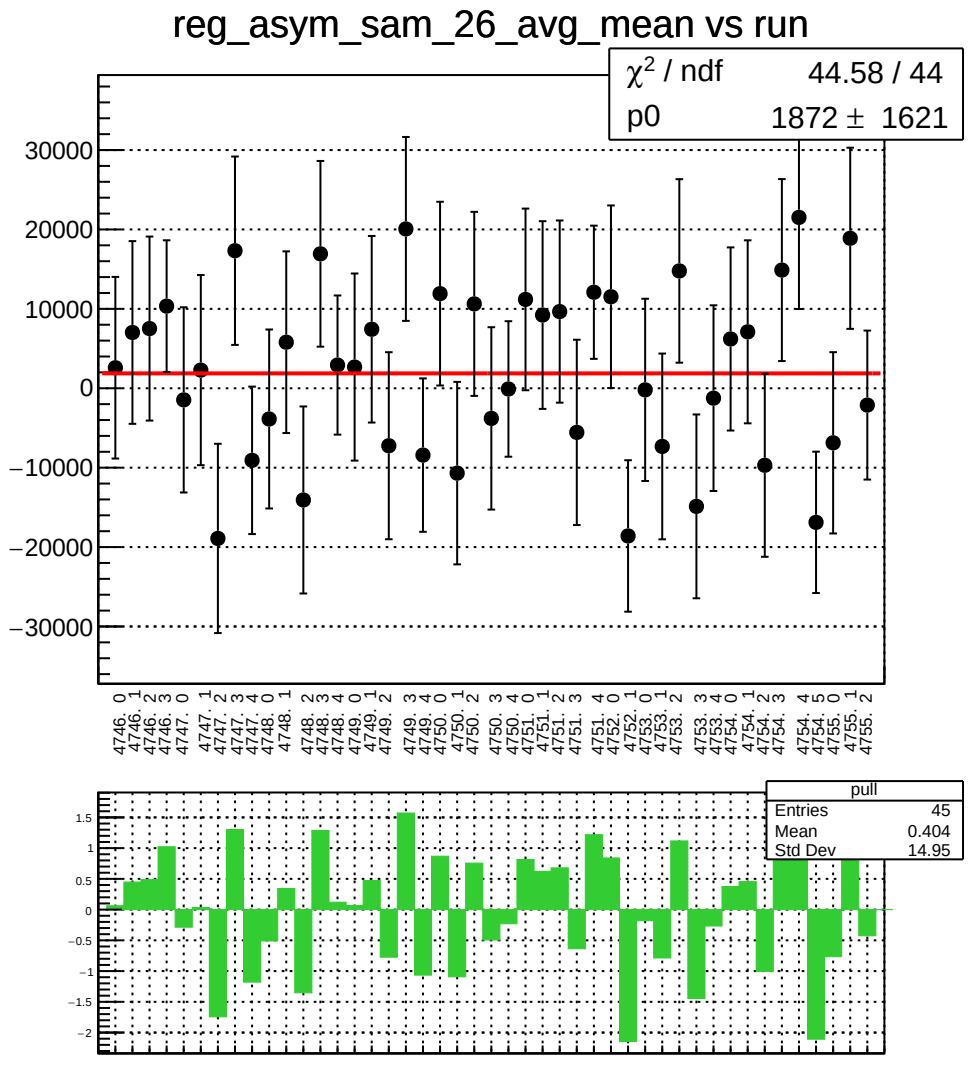

pull1D
Entries 45
Mean 0.03918
Std Dev 1.13
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

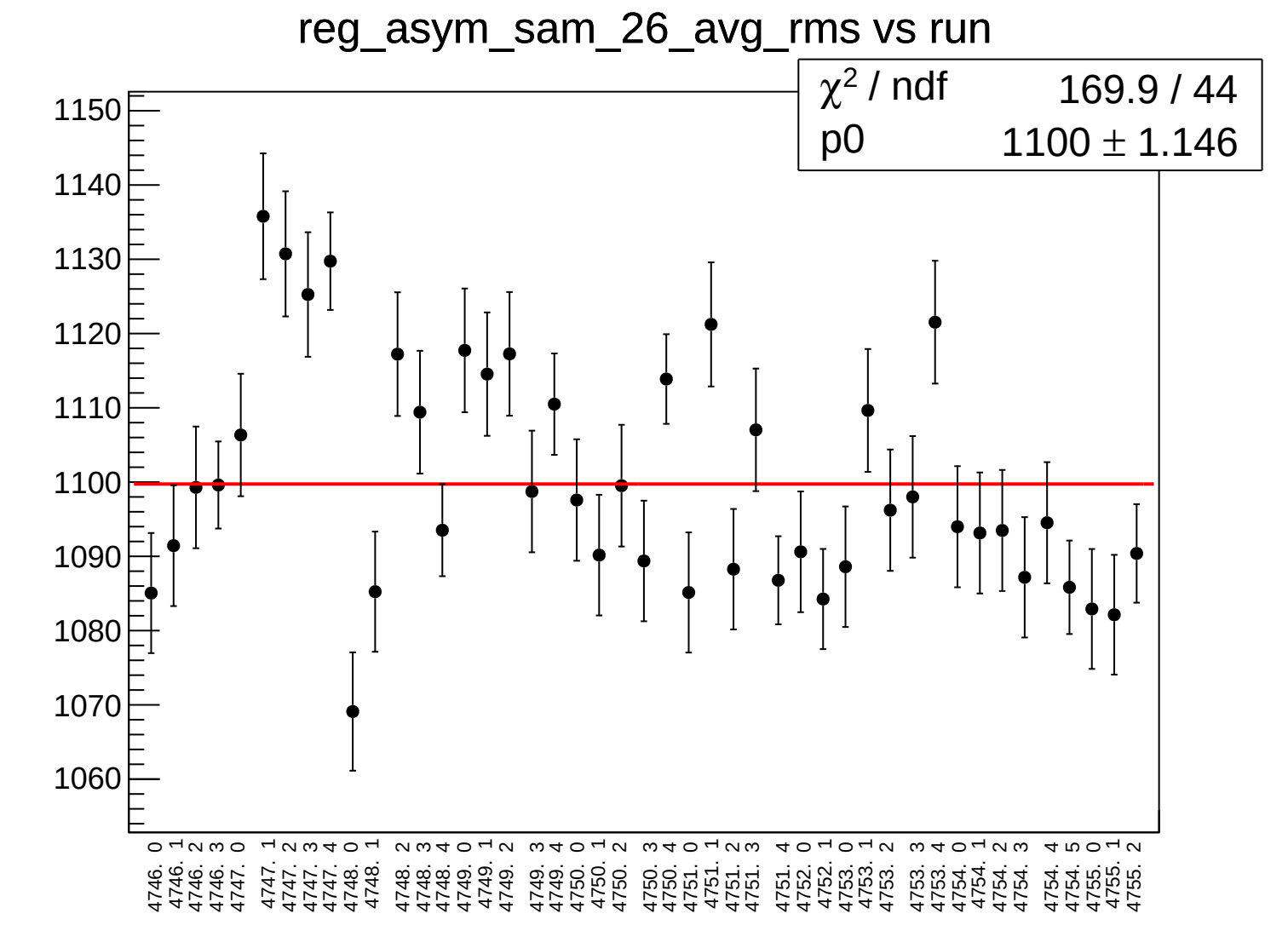

reg_asym_sam_15_avg_rms vs run
χ² / ndf 3523 / 44
p0 107.1 ± 0.1118
130
125
120
115
110
105
100
95
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

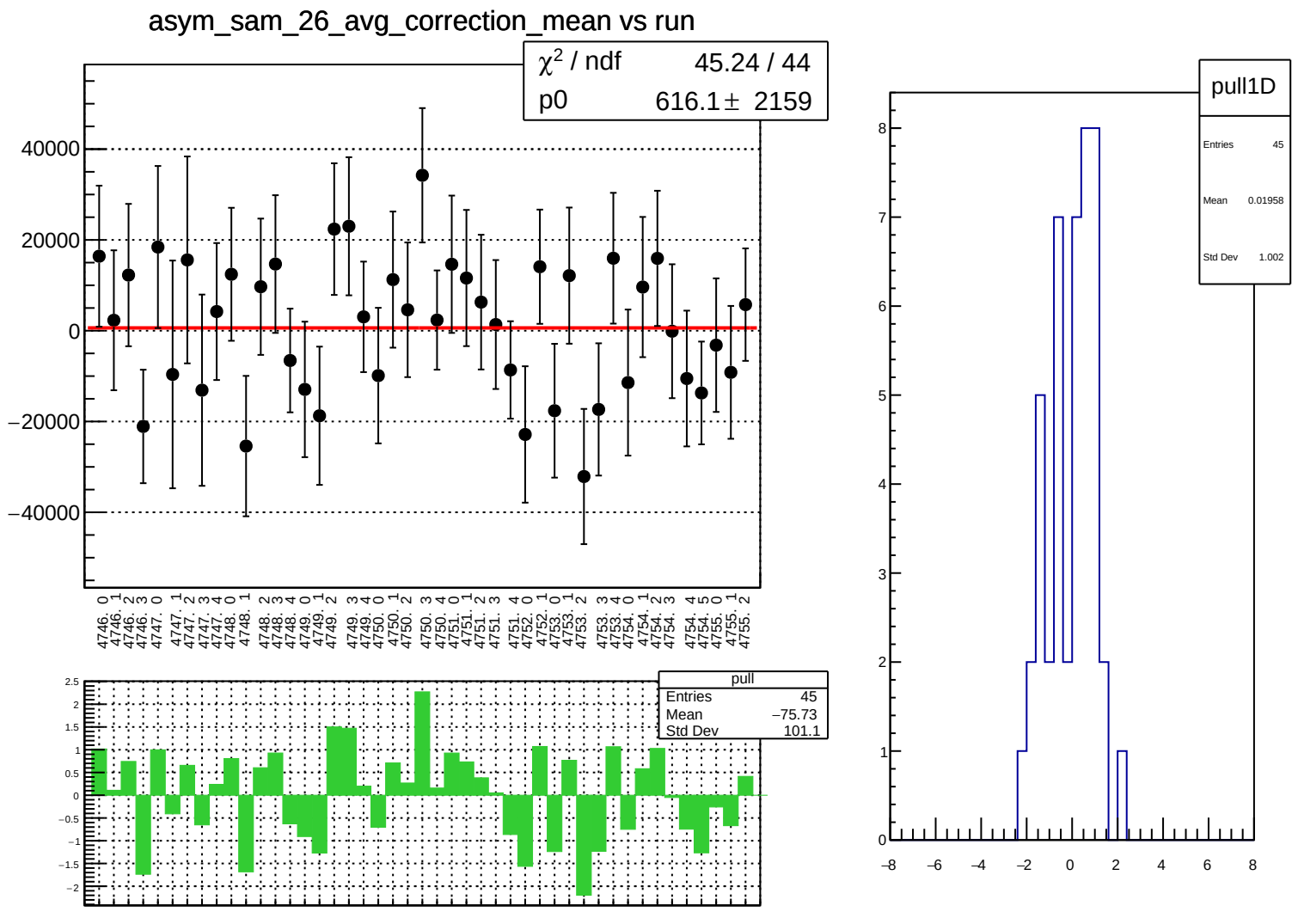

asym_sam_15_avg_correction_mean vs run
χ² / ndf 49.7 / 44
p0 74.28 ± 147.3
4000
3000
2000
1000
0
−1000
−2000
−3000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −40.06
Std Dev 67.8
2
1
0
−1
−2

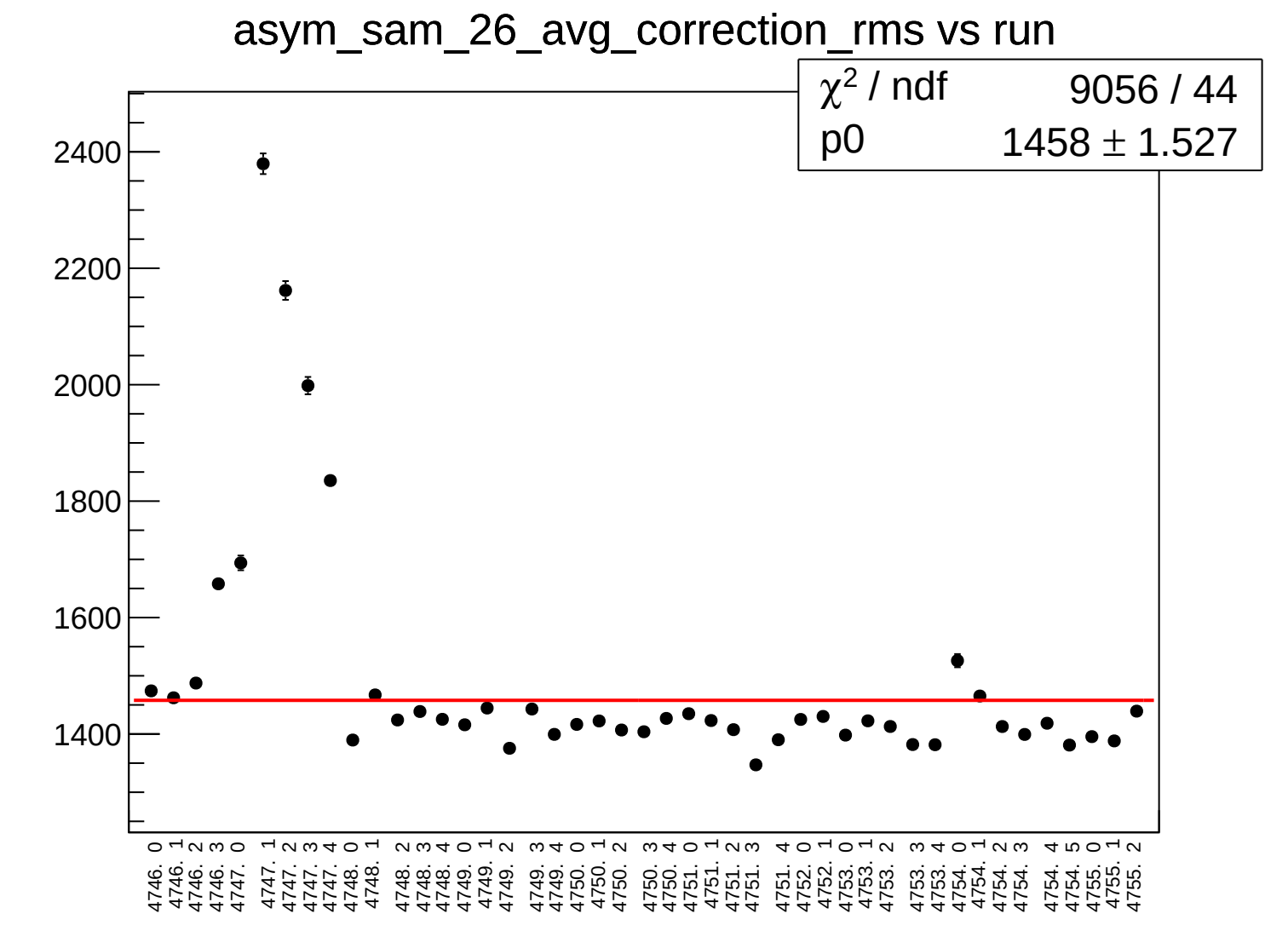

pull1D
Entries 45
Mean 0.02688
Std Dev 1.051
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

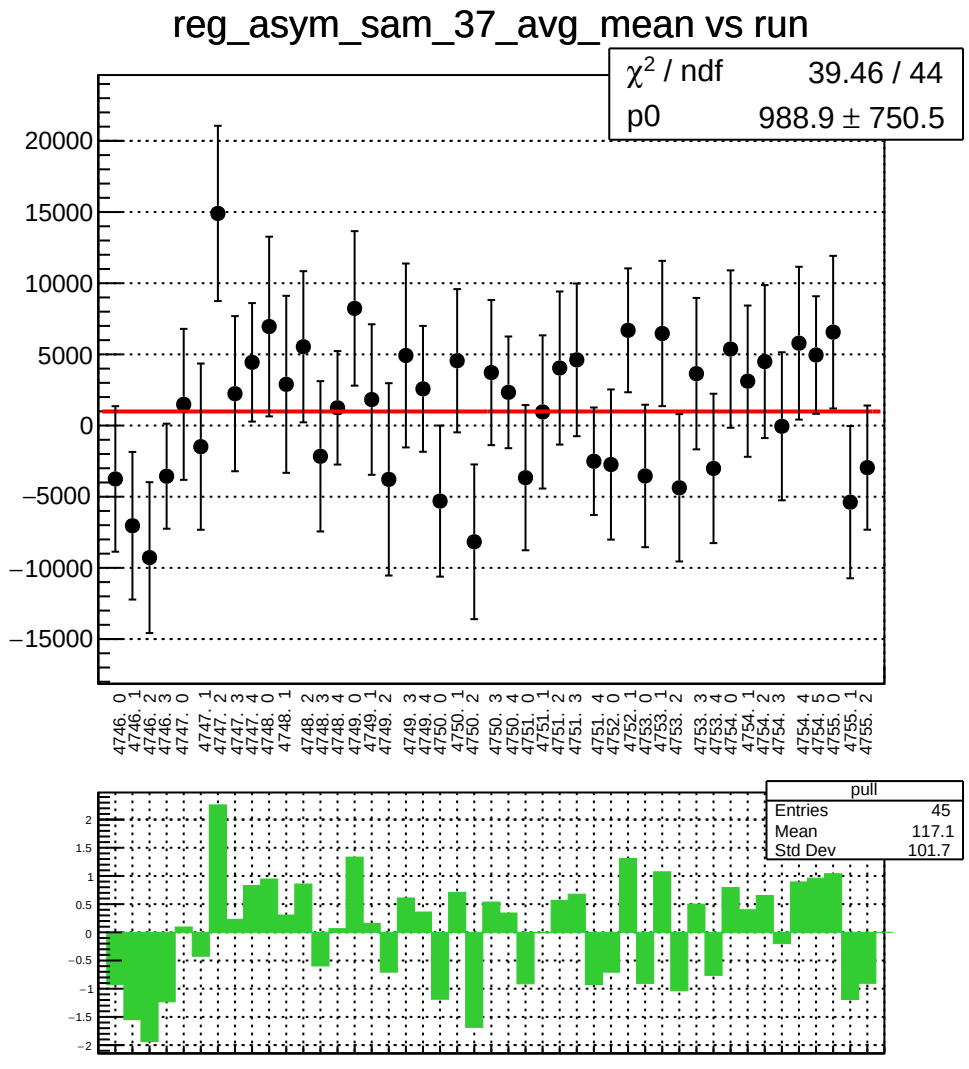

asym_sam_15_avg_correction_rms vs run
χ² / ndf 2.164e+04 / 44
p0 98.76 ± 0.1041
160
150
140
130
120
110
100
90
80
70
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

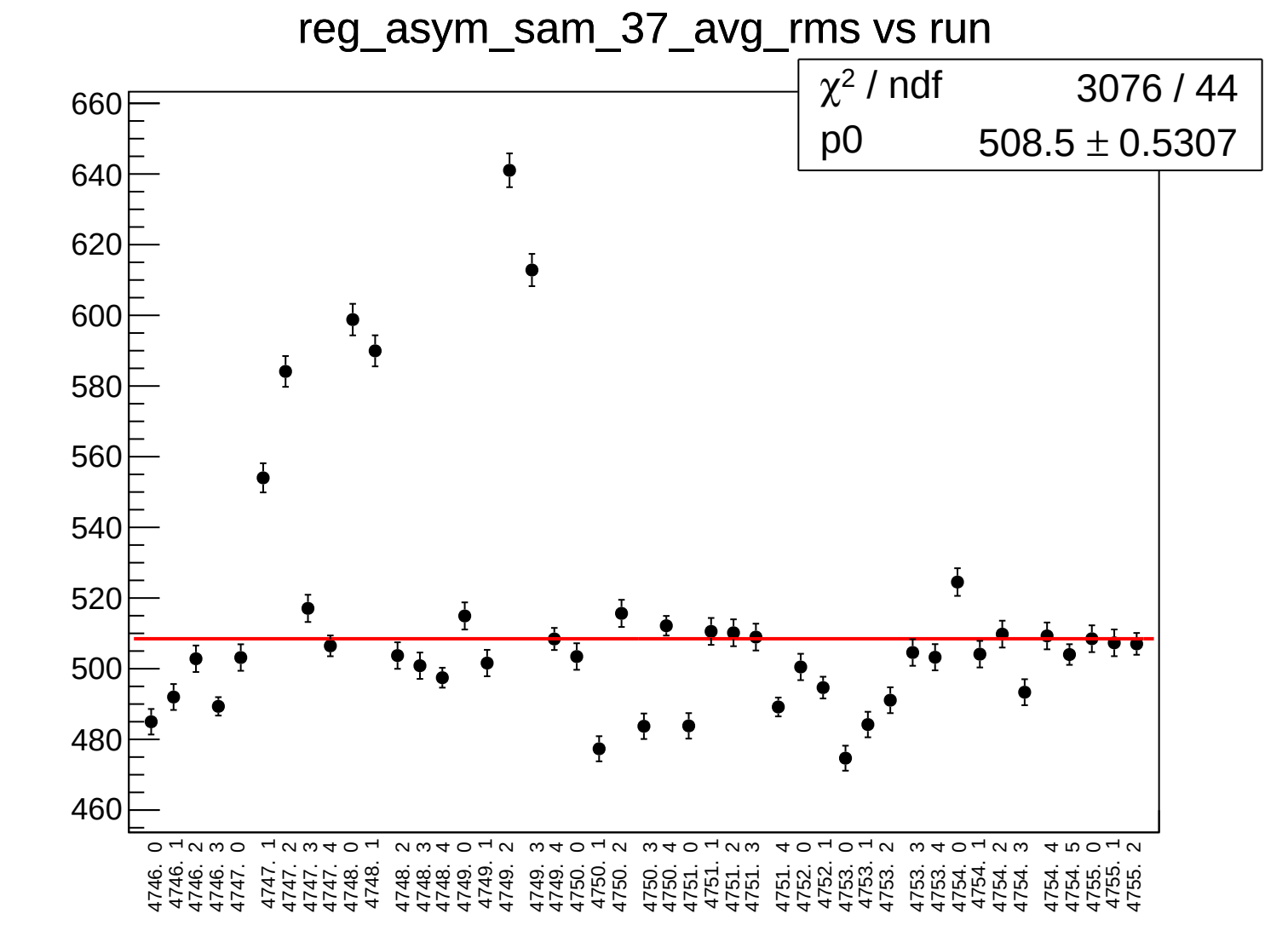

reg_asym_sam_26_avg_mean vs run
χ² / ndf 44.58 / 44
p0 1872 ± 1621
30000
20000
10000
0
−10000
−20000
−30000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 0.404
Std Dev 14.95
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01781
Std Dev 0.9951
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

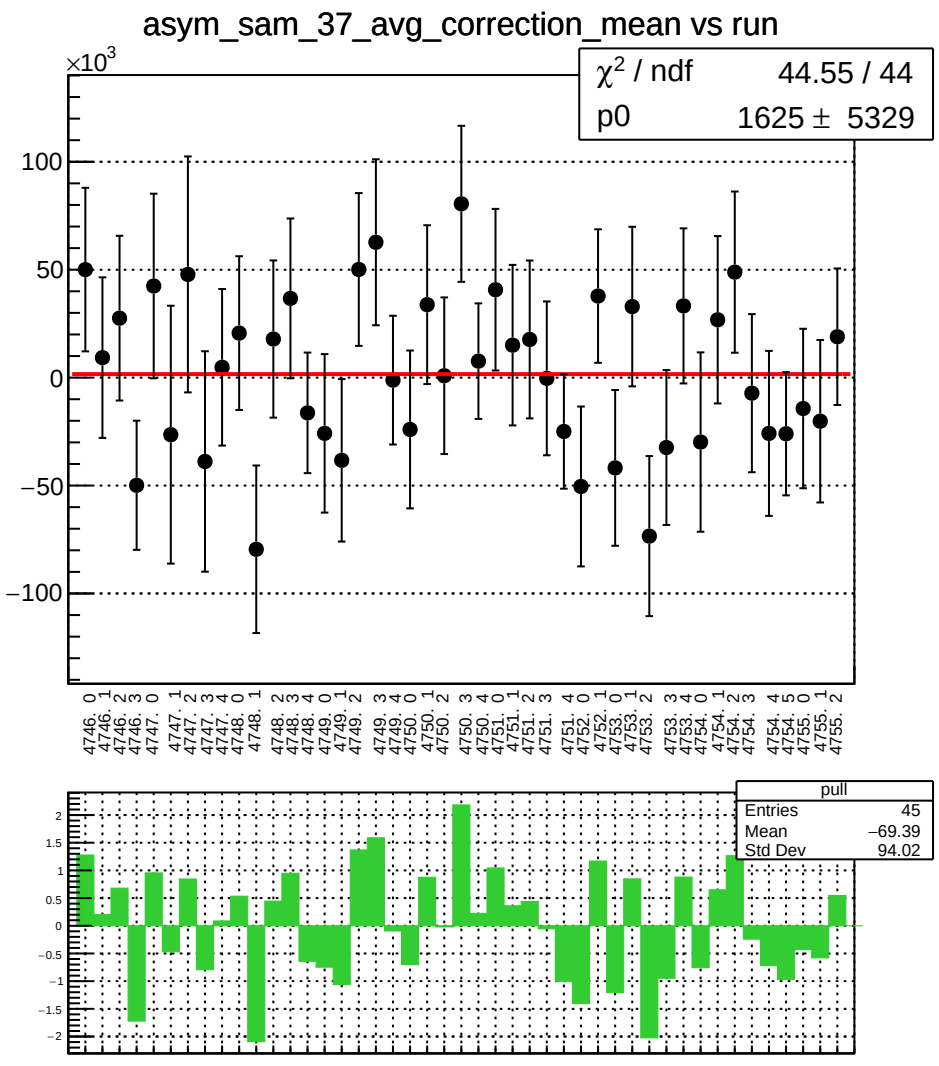

reg_asym_sam_26_avg_rms vs run
χ² / ndf 169.9 / 44
p0 1100 ± 1.146
1150
1140
1130
1120
1110
1100
1090
1080
1070
1060
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

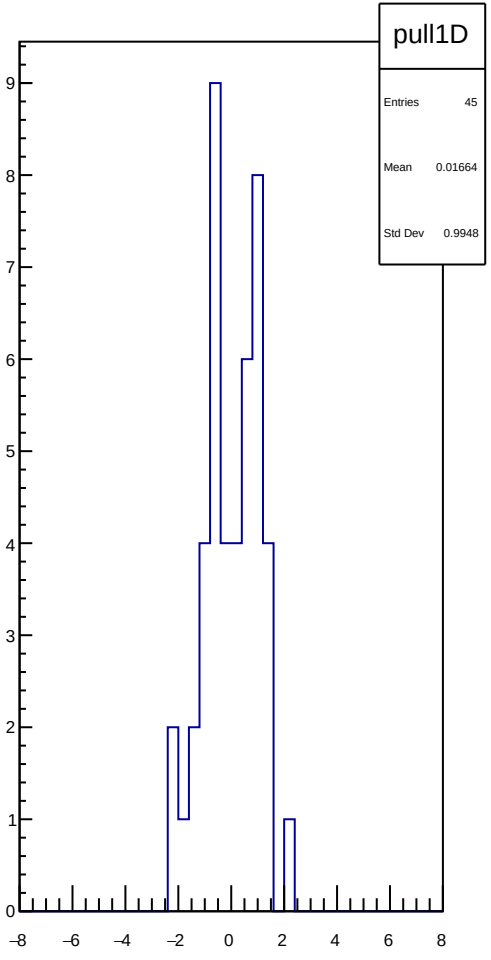

asym_sam_26_avg_correction_mean vs run
χ² / ndf 45.24 / 44
p0 616.1 ± 2159
40000
20000
0
−20000
−40000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −75.73
Std Dev 101.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01958
Std Dev 1.002
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

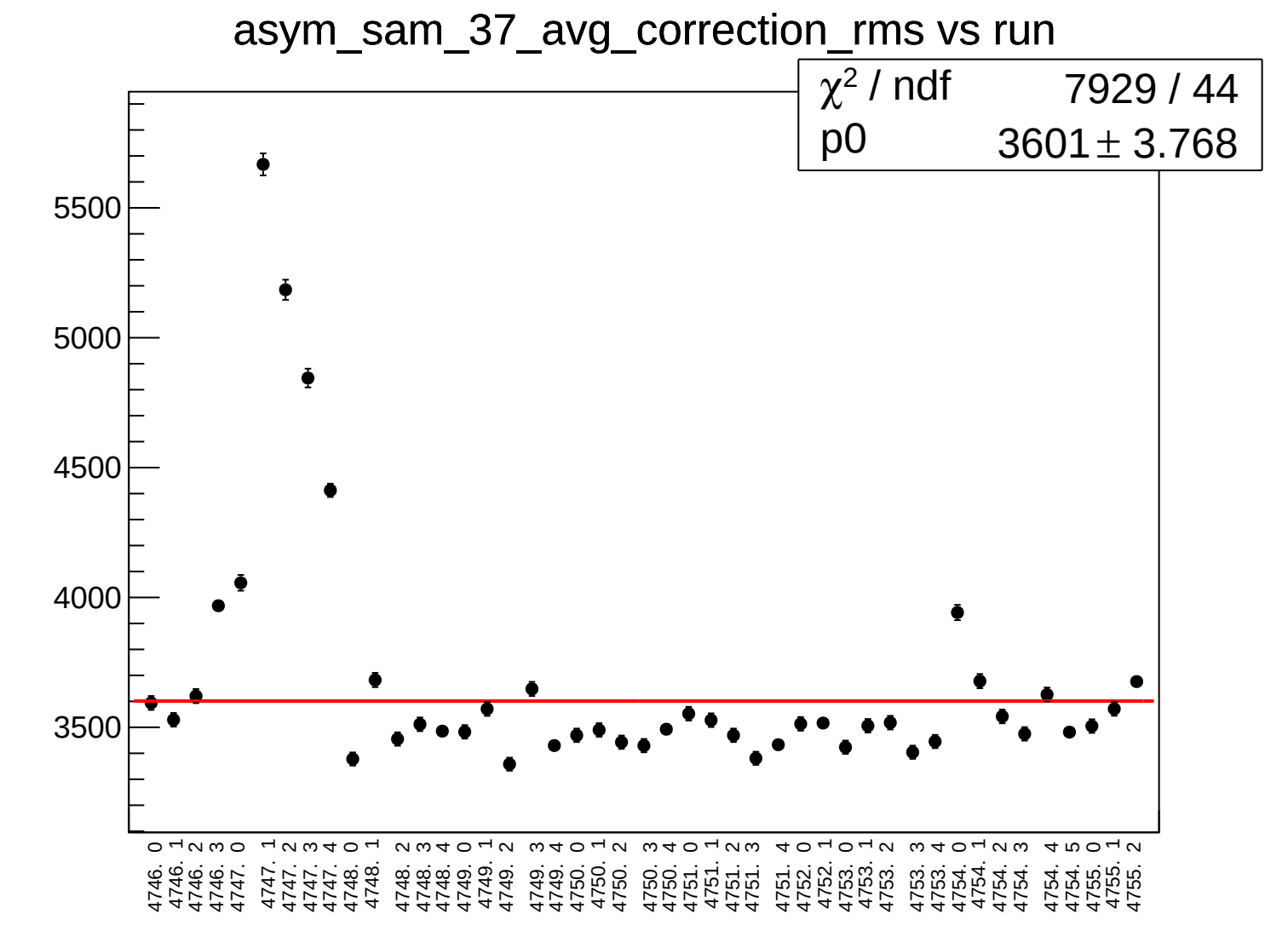

asym_sam_26_avg_correction_rms vs run
χ^2 / ndf 9056 / 44
p0 1458 ± 1.527
2400
2200
2000
1800
1600
1400
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

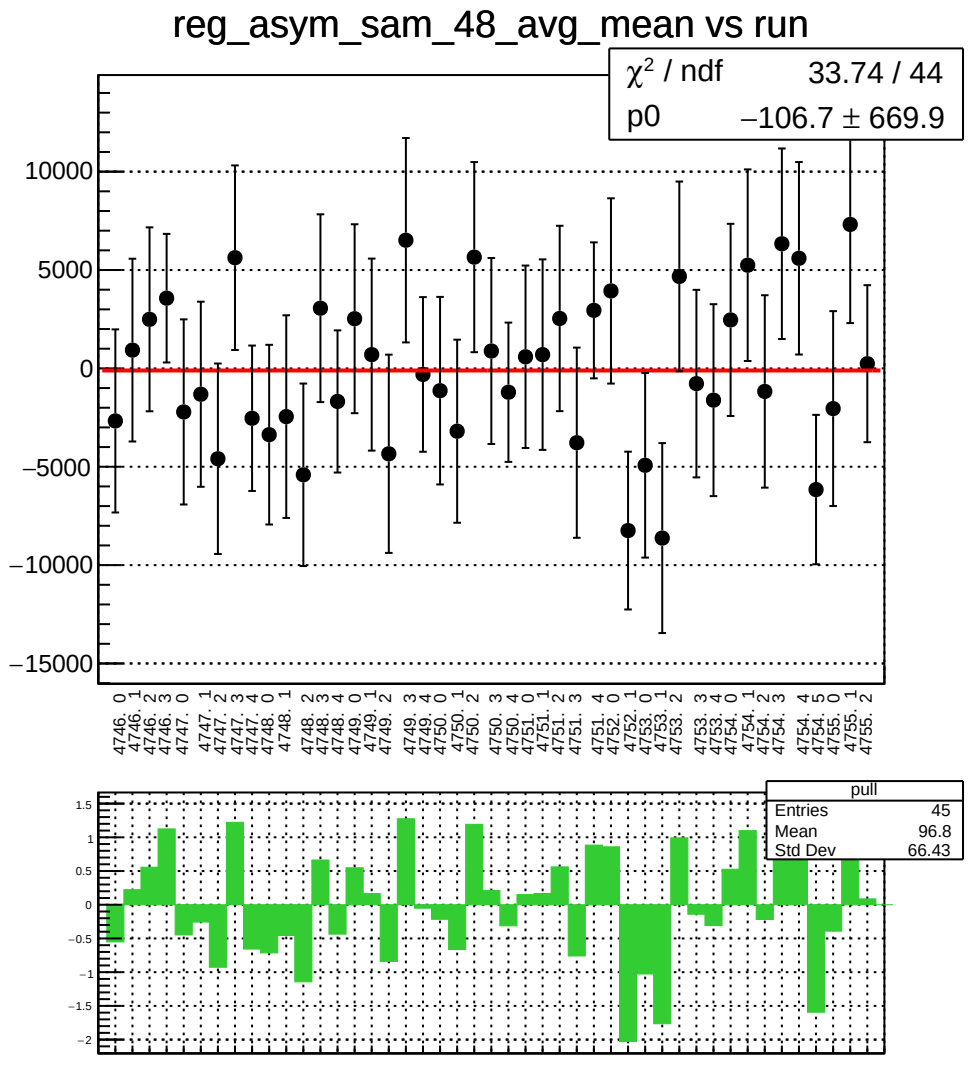

reg_asym_sam_37_avg_mean vs run
χ² / ndf 39.46 / 44
p0 988.9 ± 750.5
20000
15000
10000
5000
0
−5000
−10000
−15000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 117.1
Std Dev 101.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01572
Std Dev 0.9363
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

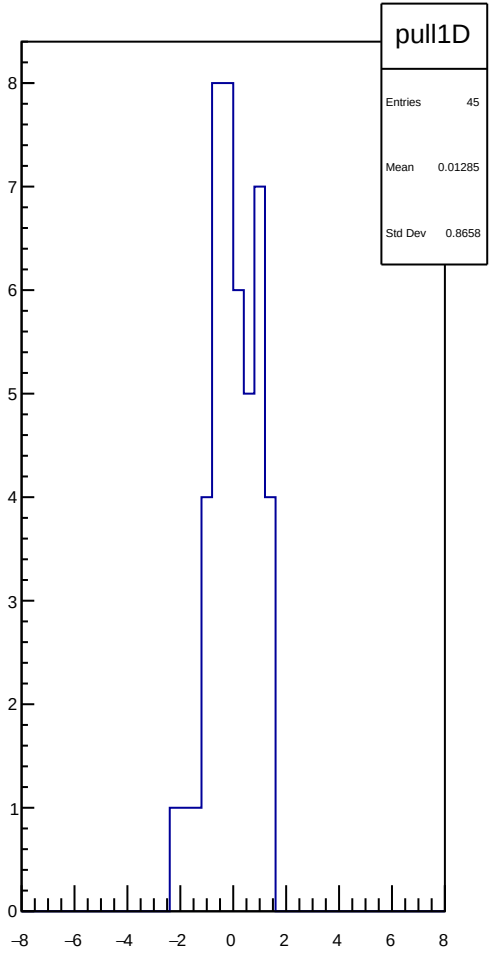

reg_asym_sam_37_avg_rms vs run
χ² / ndf 3076 / 44
p0 508.5 ± 0.5307
660
640
620
600
580
560
540
520
500
480
460
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

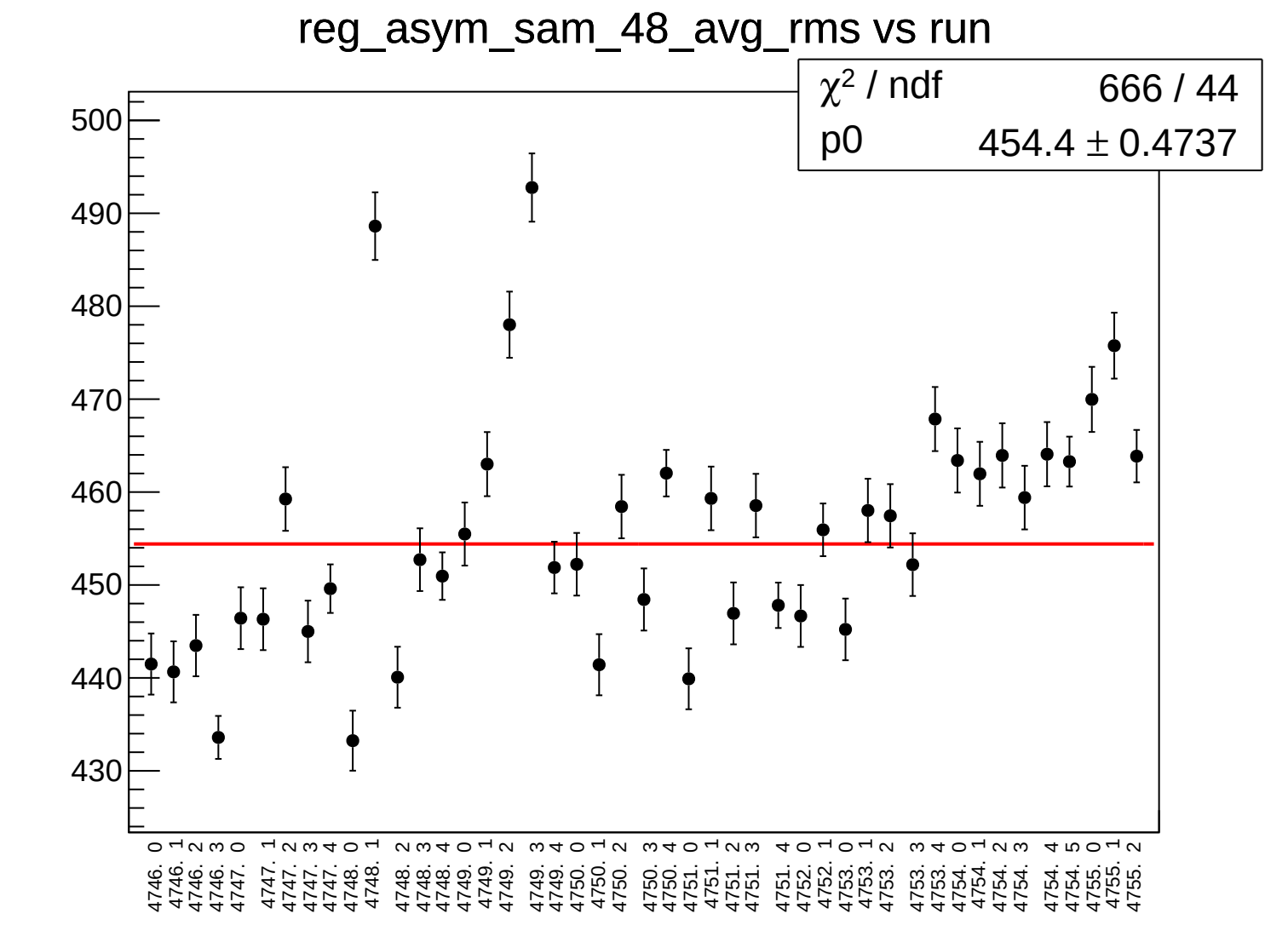

asym_sam_37_avg_correction_mean vs run
×10^3
χ² / ndf 44.55 / 44
p0 1625 ± 5329
100
50
0
−50
−100
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −69.39
Std Dev 94.02
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

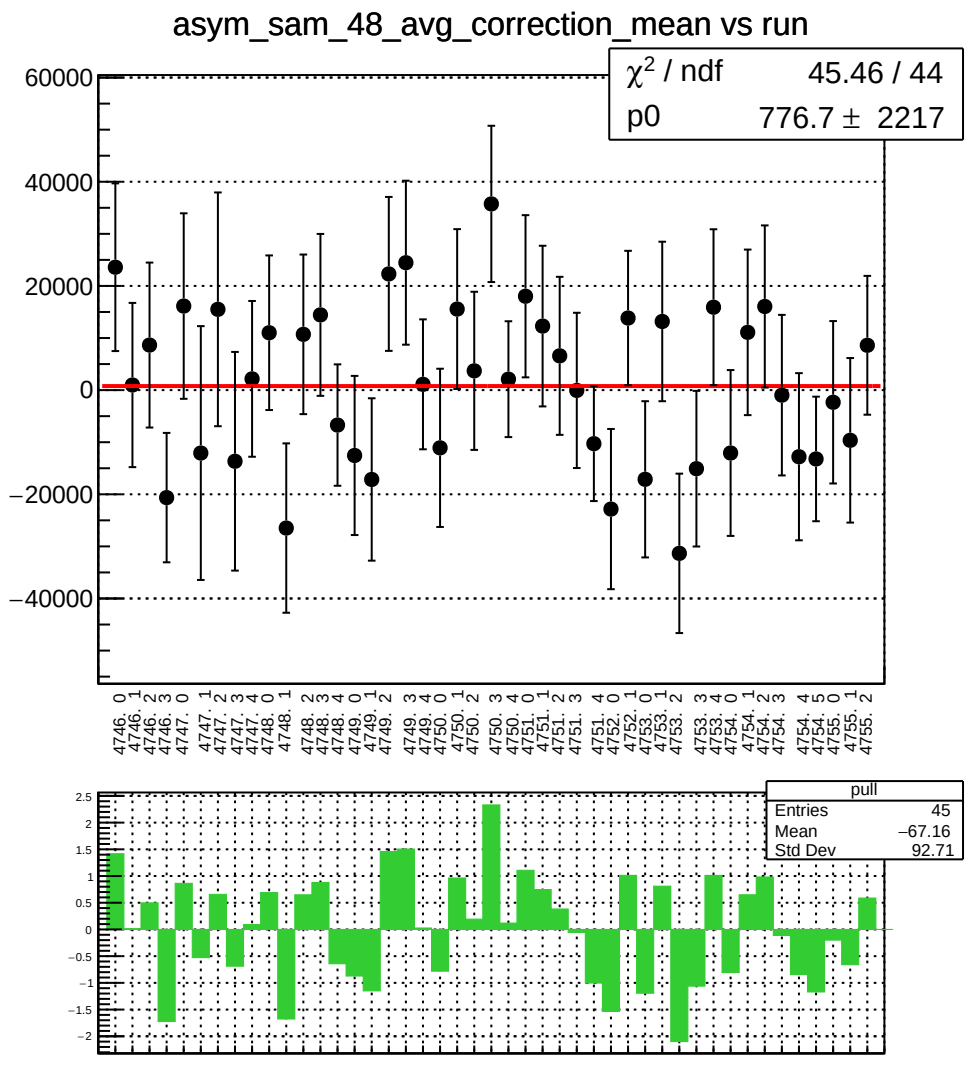

pull1D
Entries 45
Mean 0.01664
Std Dev 0.9948
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

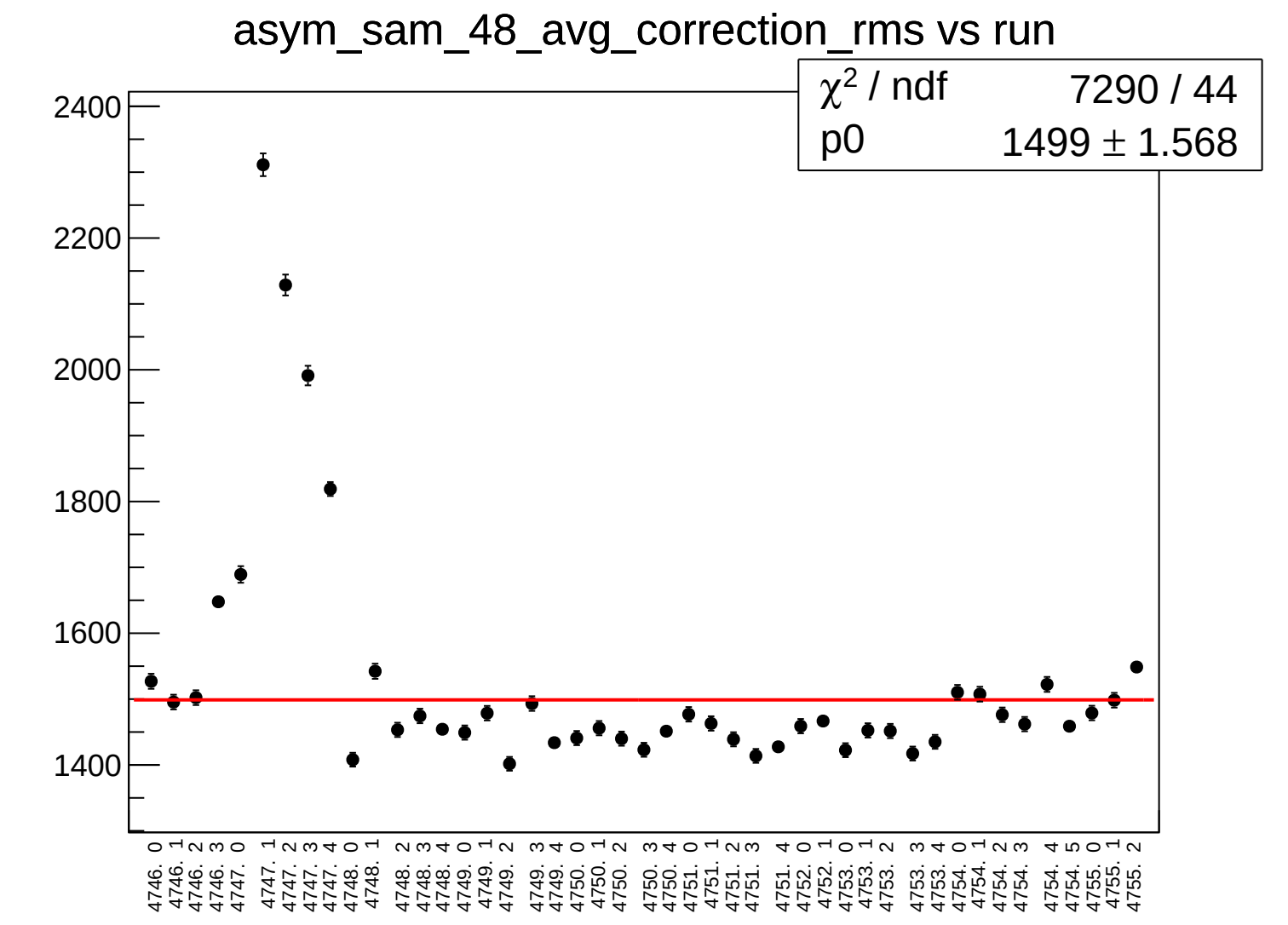

asym_sam_37_avg_correction_rms vs run
χ² / ndf 7929 / 44
p0 3601 ± 3.768
5500
5000
4500
4000
3500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

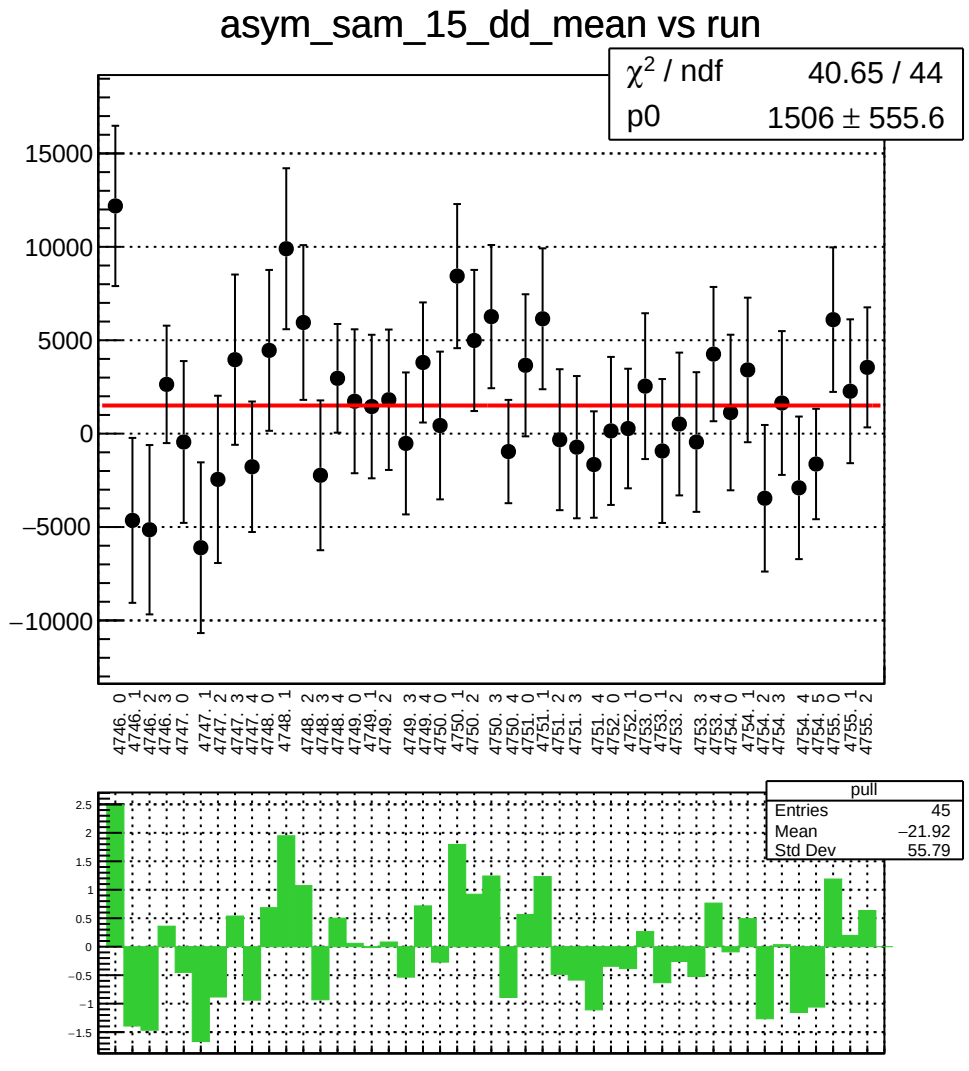

reg_asym_sam_48_avg_mean vs run
χ² / ndf 33.74 / 44
p0 −106.7 ± 669.9
10000
5000
0
−5000
−10000
−15000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 96.8
Std Dev 66.43
1.5
1
0.5
0
−0.5
−1
−1.5
−2

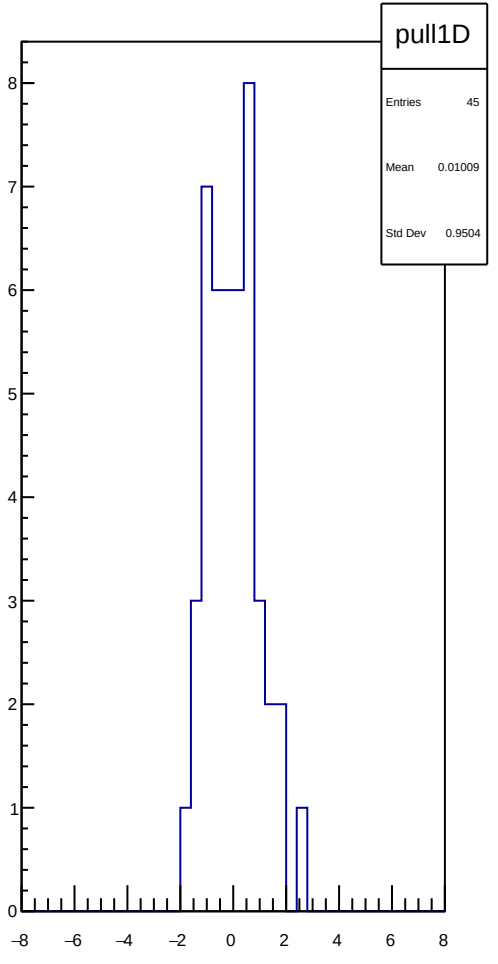

pull1D
Entries 45
Mean 0.01285
Std Dev 0.8658
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

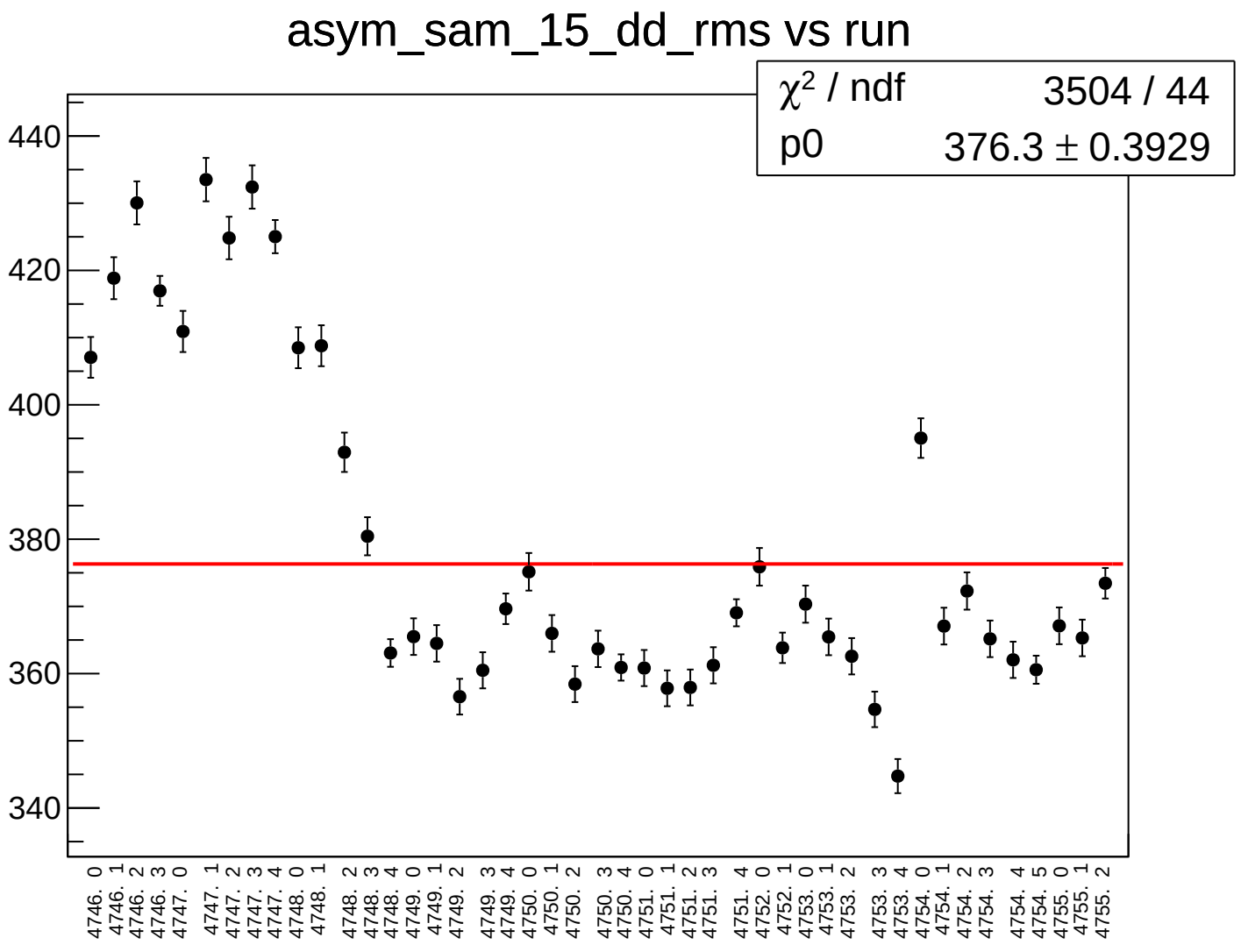

reg_asym_sam_48_avg_rms vs run
χ² / ndf 666 / 44
p0 454.4 ± 0.4737
500
490
480
470
460
450
440
430
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

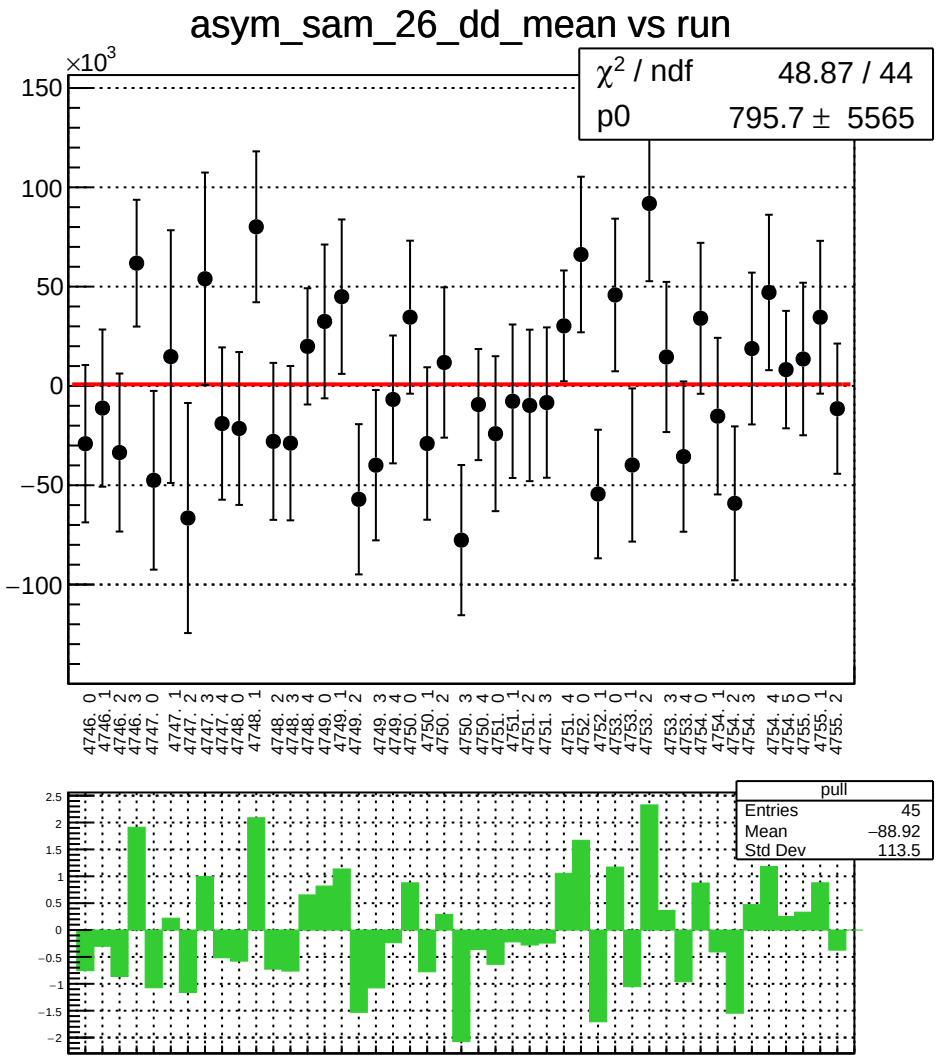

asym_sam_48_avg_correction_mean vs run
χ² / ndf 45.46 / 44
p0 776.7 ± 2217
60000
40000
20000
0
−20000
−40000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −67.16
Std Dev 92.71
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01861
Std Dev 1.005
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

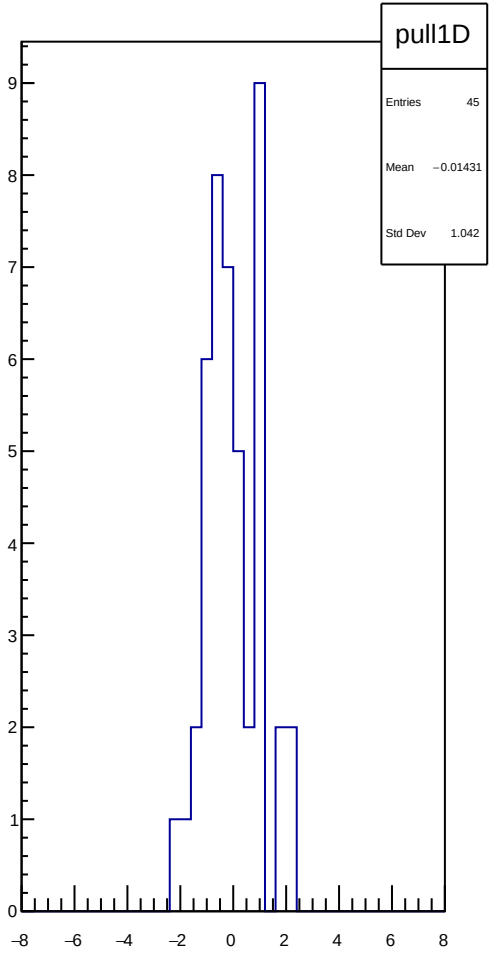

asym_sam_48_avg_correction_rms vs run
χ² / ndf 7290 / 44
p0 1499 ± 1.568
2400
2200
2000
1800
1600
1400
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

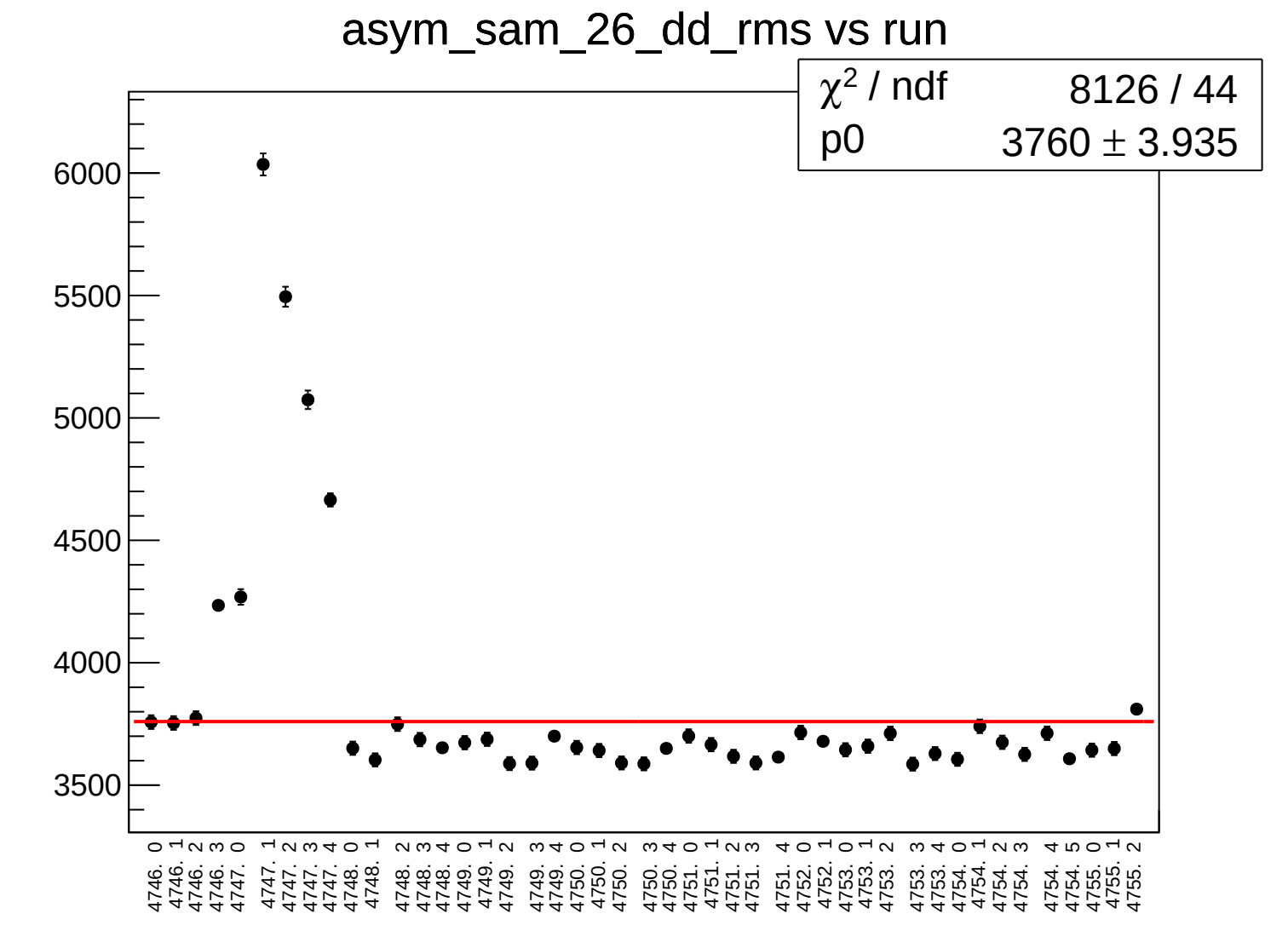

asym_sam_15_dd_mean vs run
χ² / ndf 40.65 / 44
p0 1506 ± 555.6
15000
10000
5000
0
−5000
−10000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −21.92
Std Dev 55.79
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

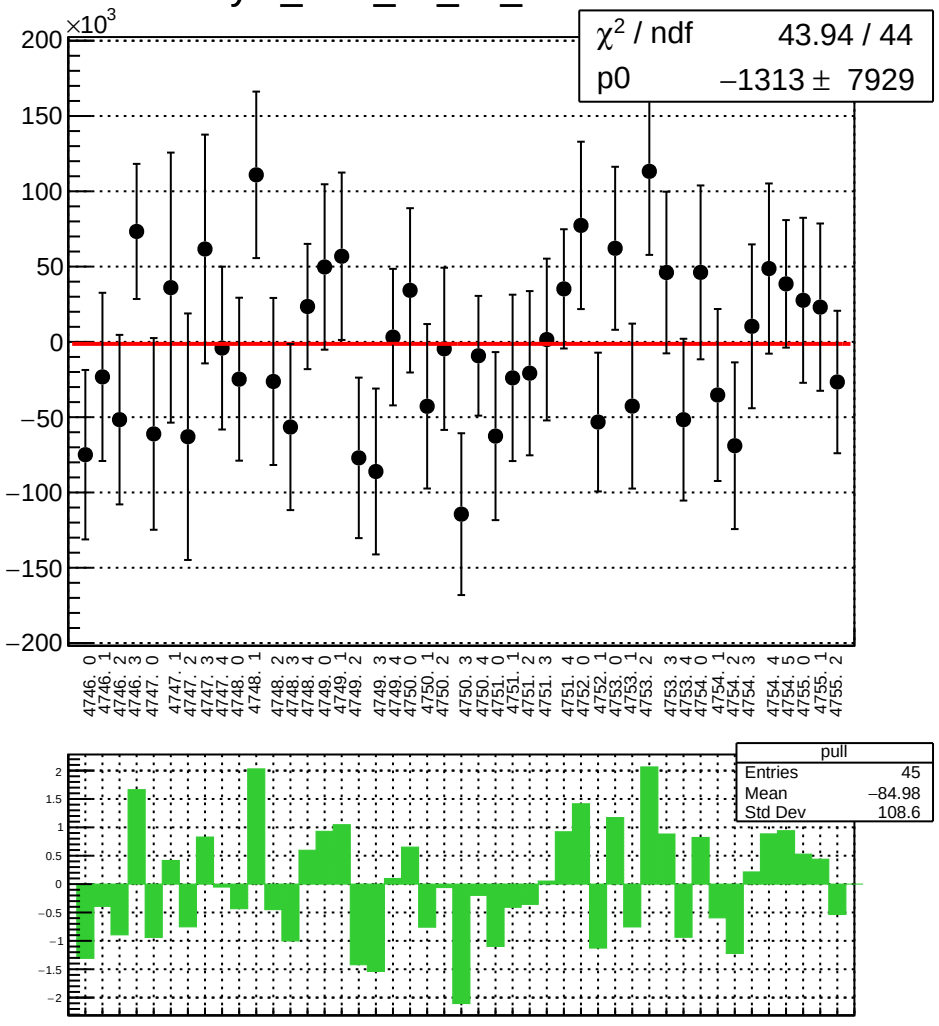

pull1D
Entries 45
Mean 0.01009
Std Dev 0.9504
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

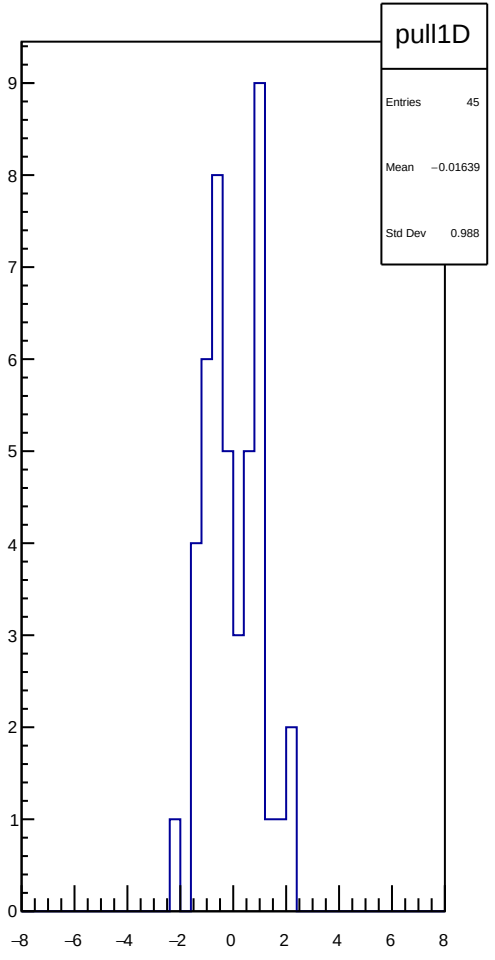

asym_sam_15_dd_rms vs run
χ² / ndf 3504 / 44
p0 376.3 ± 0.3929
440
420
400
380
360
340
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

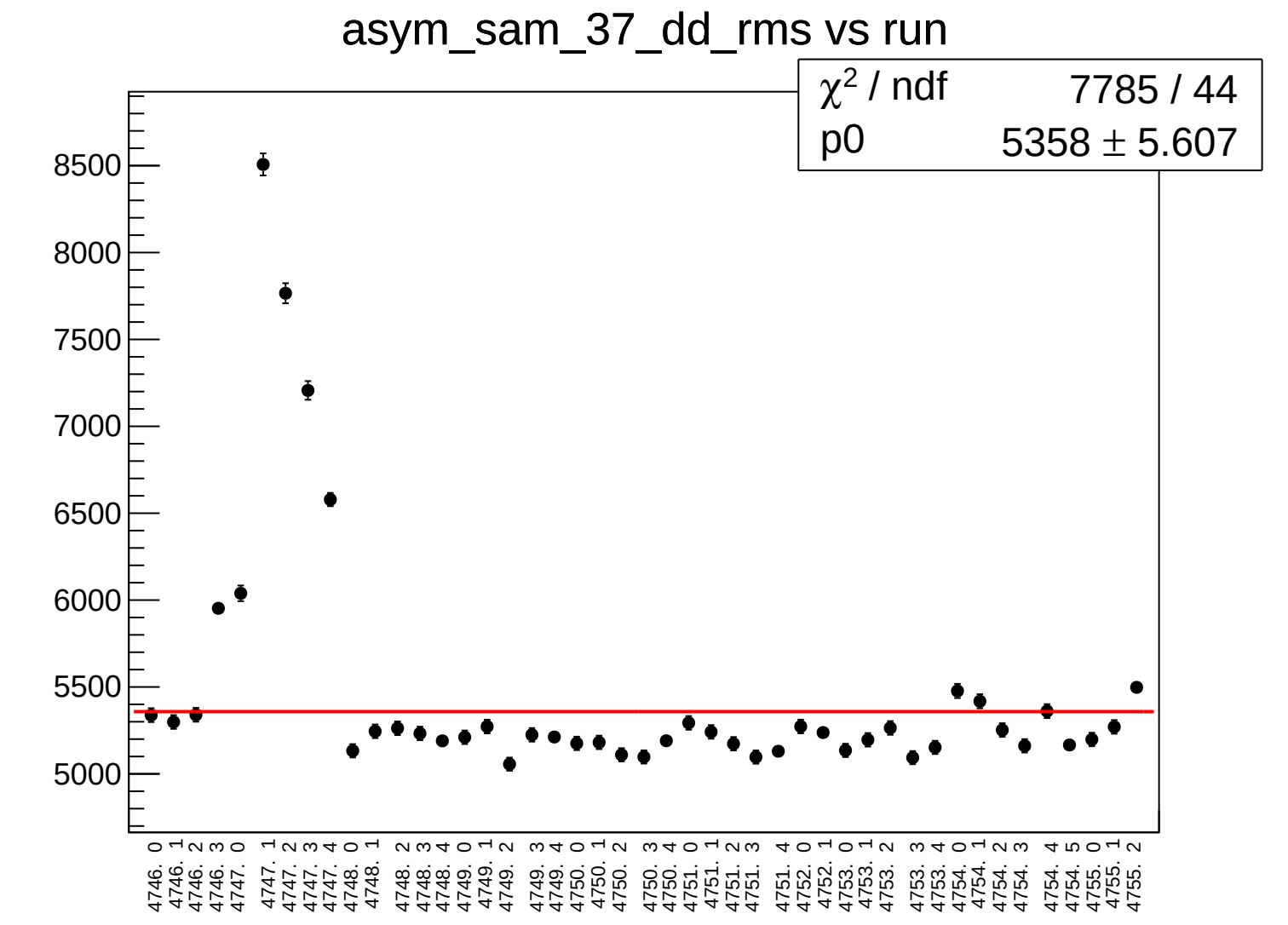

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 48.87 / 44
p0 795.7 ± 5565
150
100
50
0
−50
−100
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −88.92
Std Dev 113.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

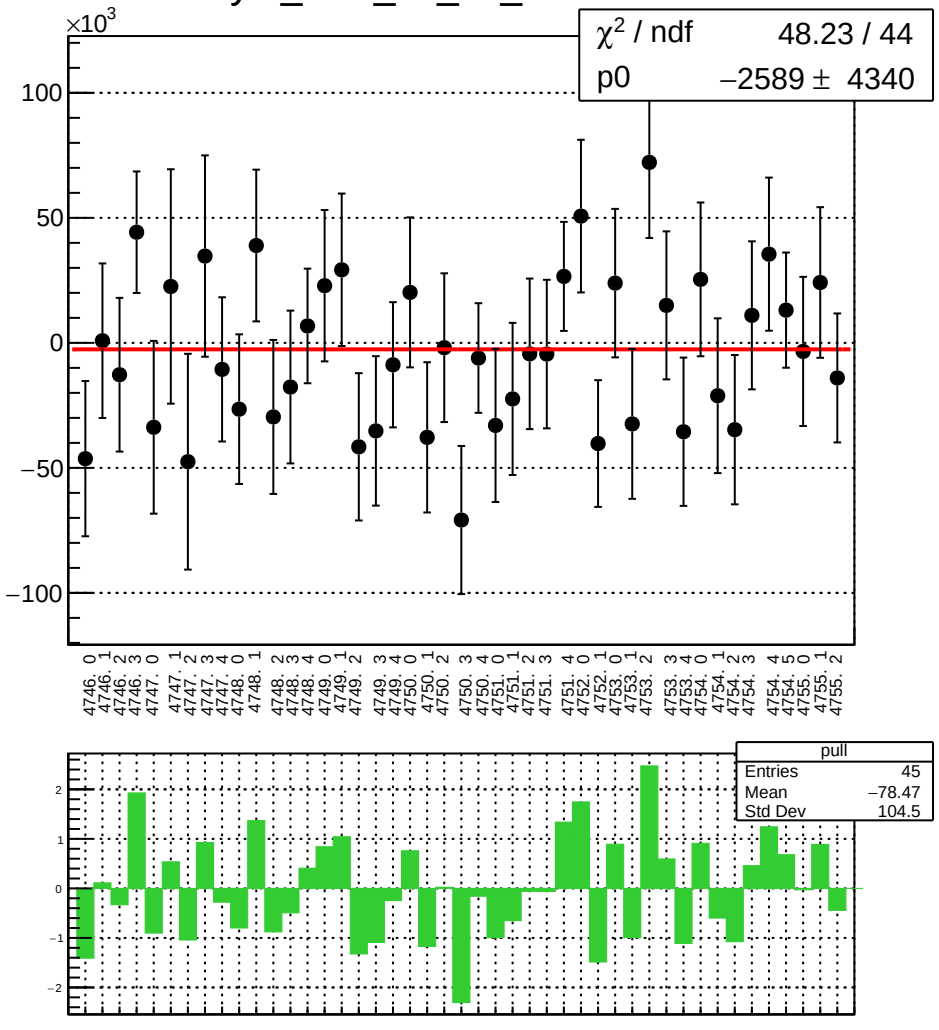

pull1D
Entries 45
Mean −0.01431
Std Dev 1.042
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

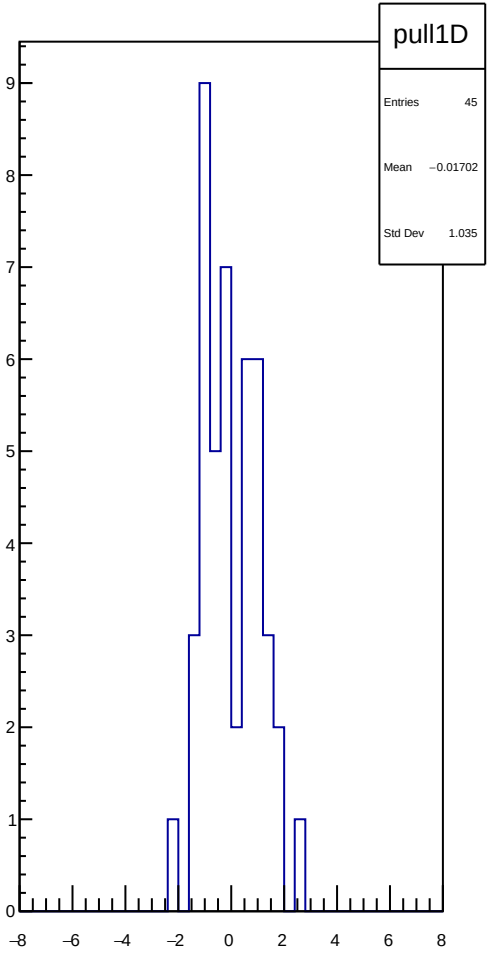

asym_sam_26_dd_rms vs run
χ² / ndf 8126 / 44
p0 3760 ± 3.935
6000
5500
5000
4500
4000
3500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

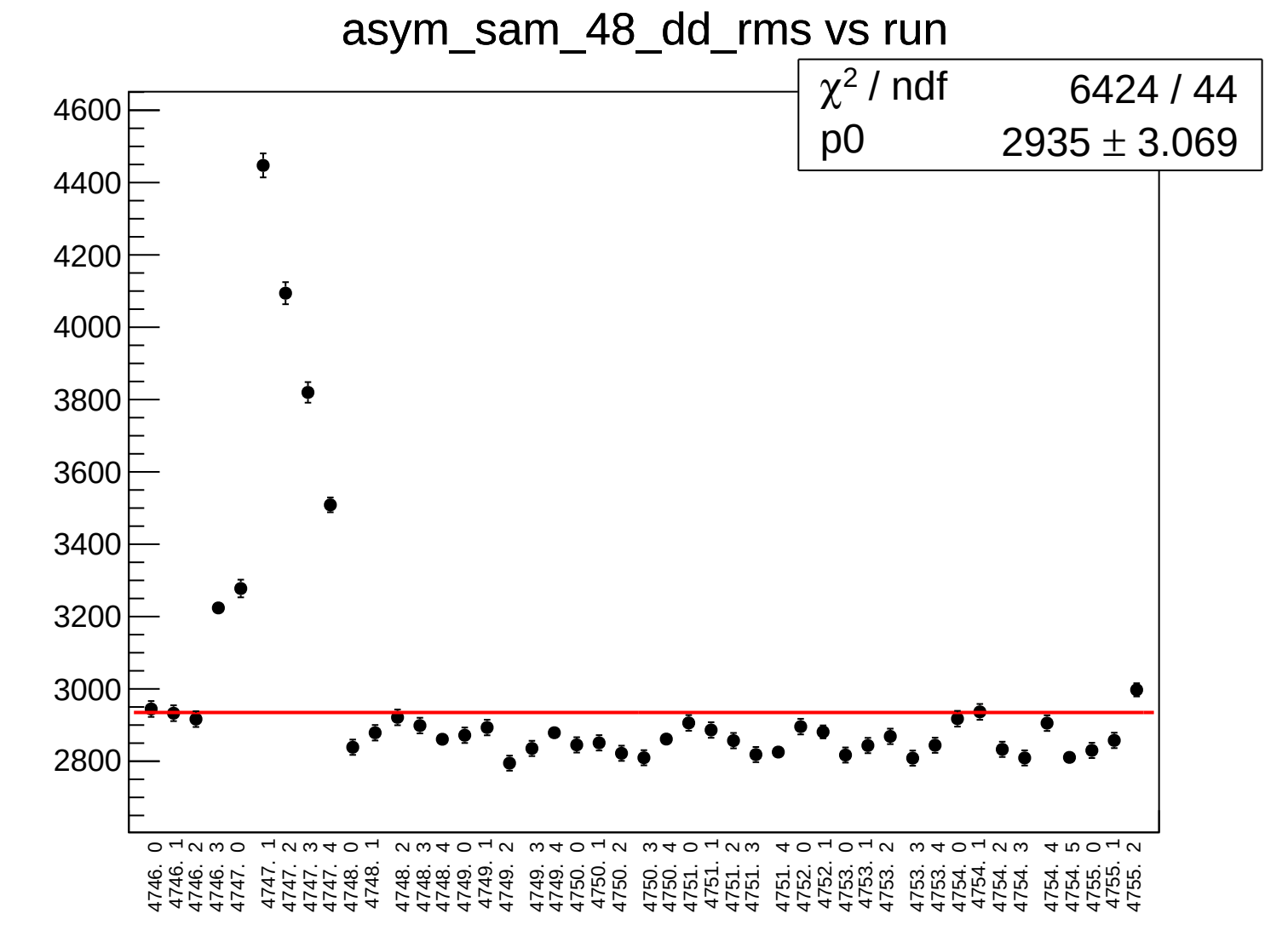

asym_sam_37_dd_mean vs run
×10^3
χ² / ndf 43.94 / 44
p0 −1313 ± 7929
pull
Entries 45
Mean −84.98
Std Dev 108.6

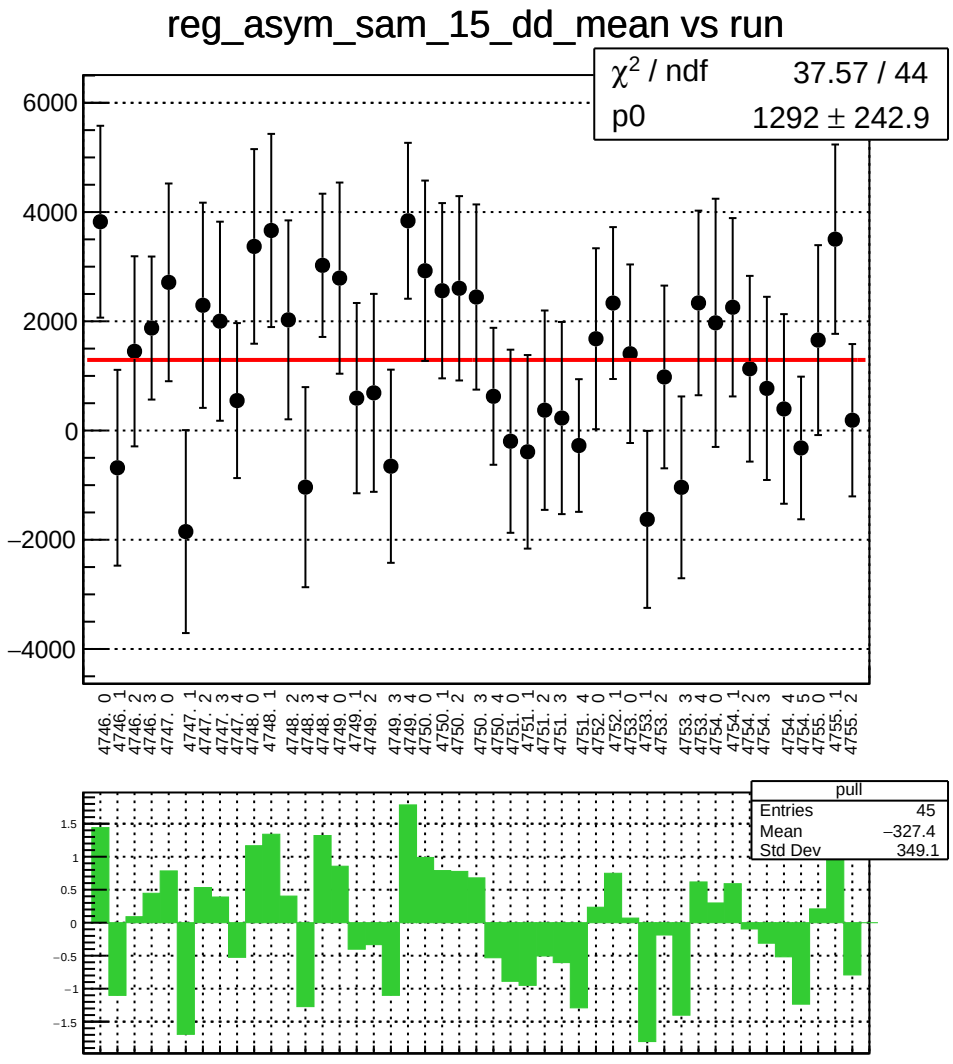

pull1D
Entries 45
Mean −0.01639
Std Dev 0.988

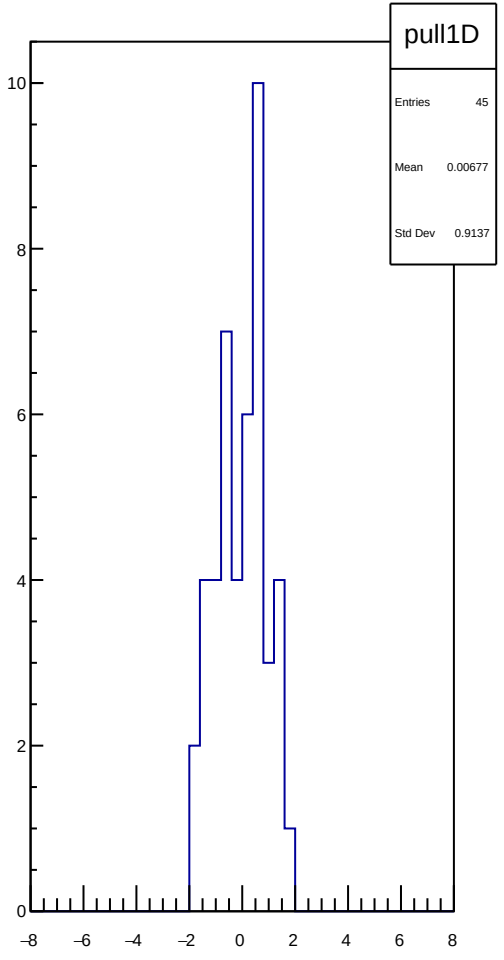

asym_sam_37_dd_rms vs run
χ² / ndf 7785 / 44
p0 5358 ± 5.607
8500
8000
7500
7000
6500
6000
5500
5000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

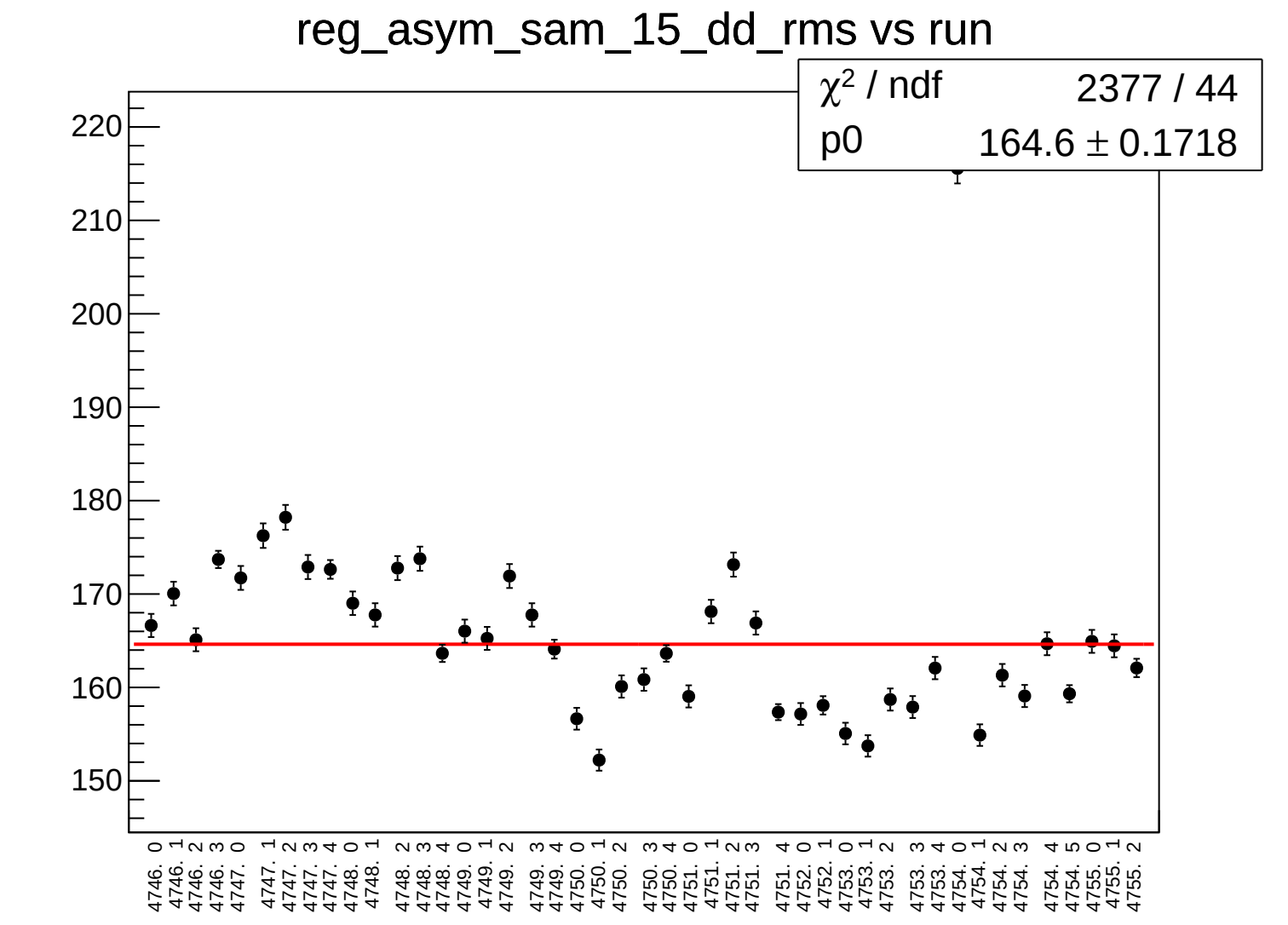

asym_sam_48_dd_mean vs run
×10^3
χ² / ndf 48.23 / 44
p0 −2589 ± 4340
100
50
0
−50
−100
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −78.47
Std Dev 104.5
2
1
0
−1
−2

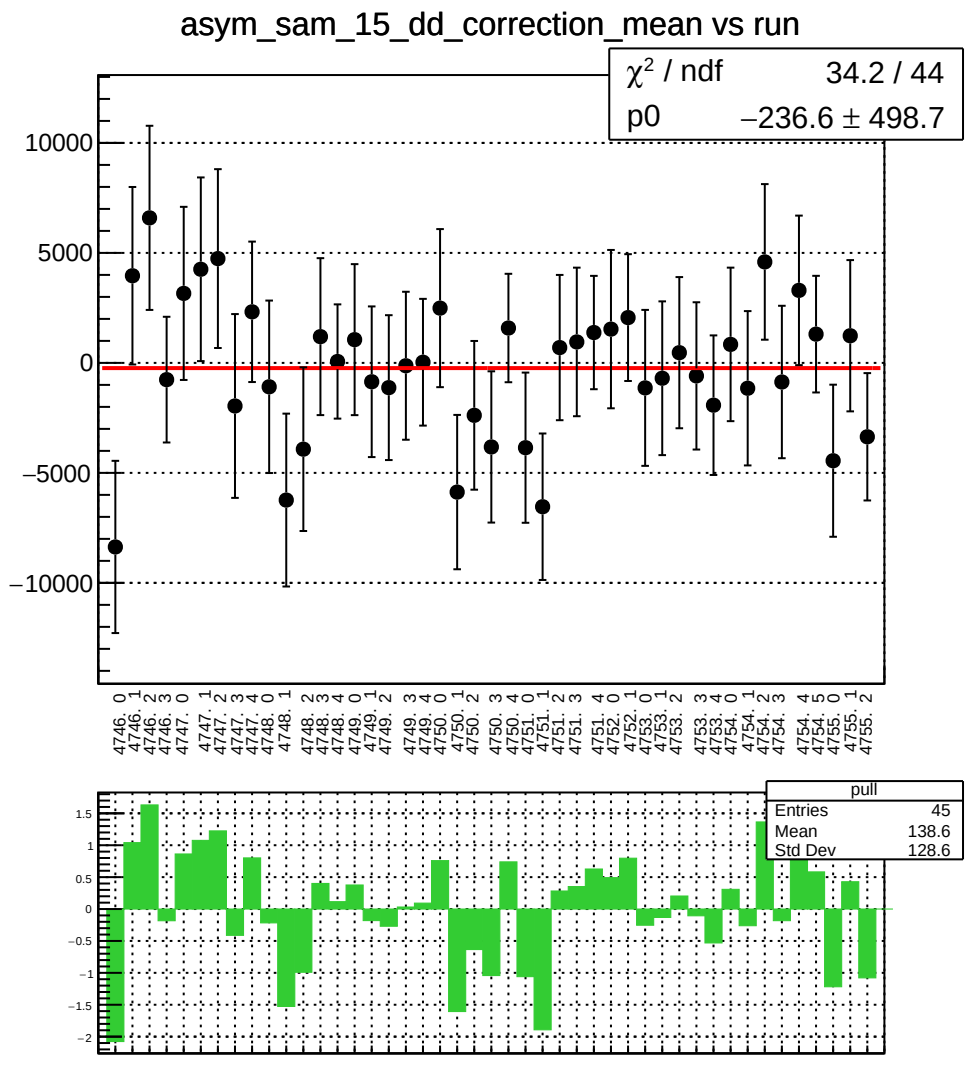

pull1D
Entries 45
Mean −0.01702
Std Dev 1.035
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

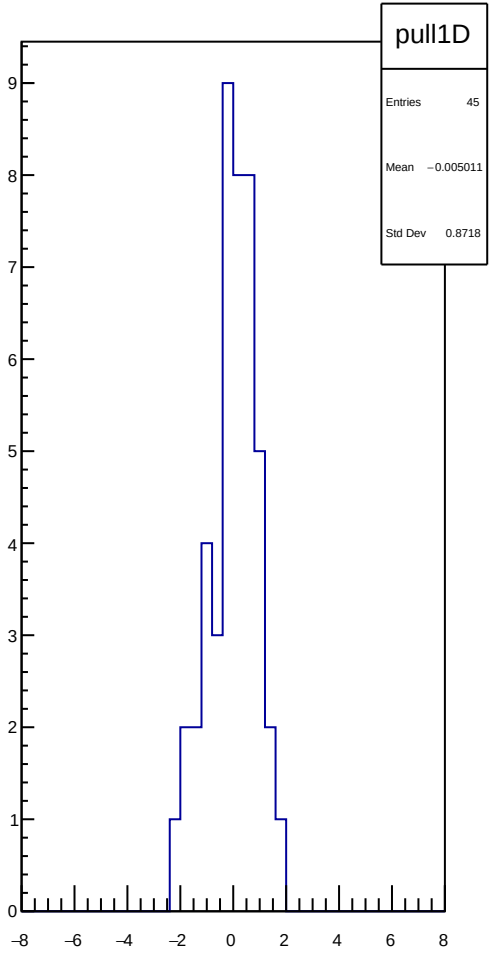

asym_sam_48_dd_rms vs run
χ² / ndf 6424 / 44
p0 2935 ± 3.069
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

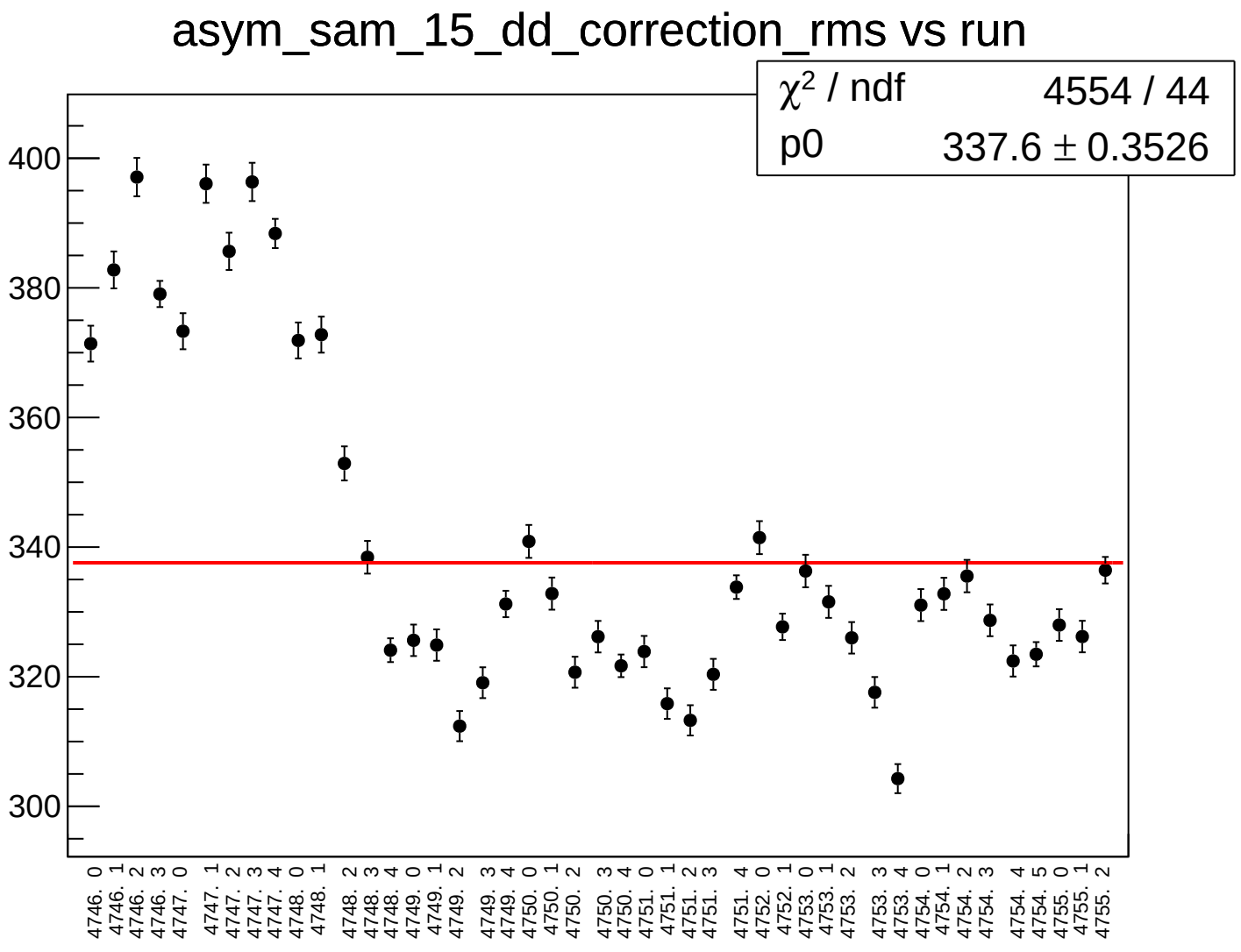

reg_asym_sam_15_dd_mean vs run
χ² / ndf 37.57 / 44
p0 1292 ± 242.9
6000
4000
2000
0
−2000
−4000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −327.4
Std Dev 349.1
1.5
1
0.5
0
−0.5
−1
−1.5

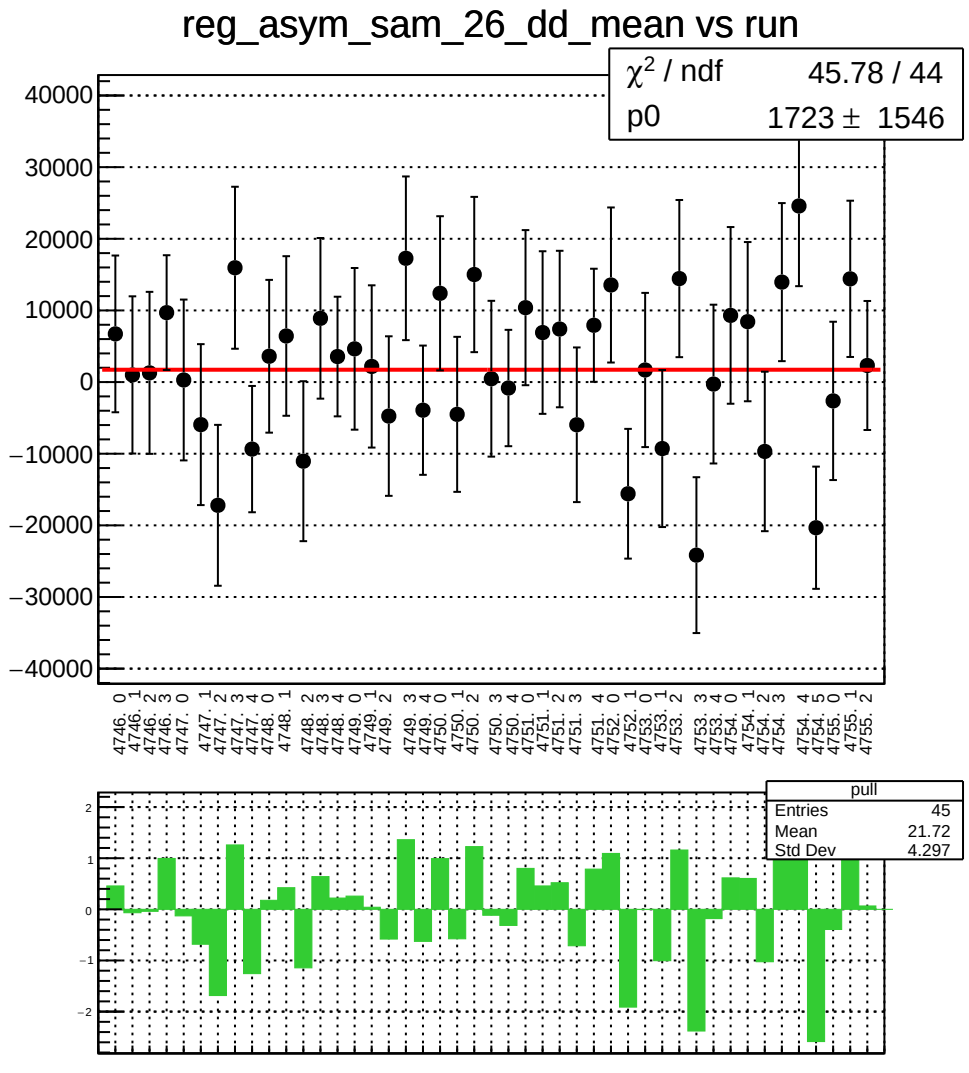

pull1D
Entries 45
Mean 0.00677
Std Dev 0.9137
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

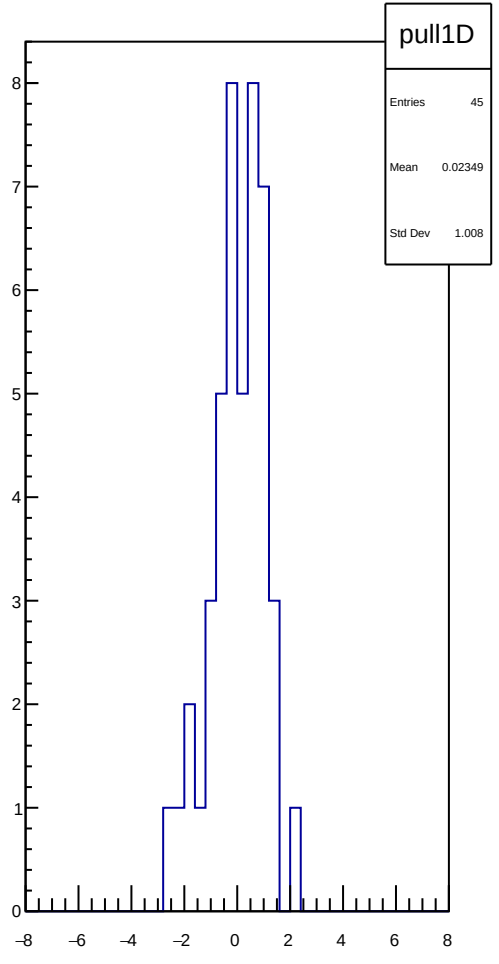

reg_asym_sam_15_dd_rms vs run
χ² / ndf 2377 / 44
p0 164.6 ± 0.1718
220
210
200
190
180
170
160
150
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

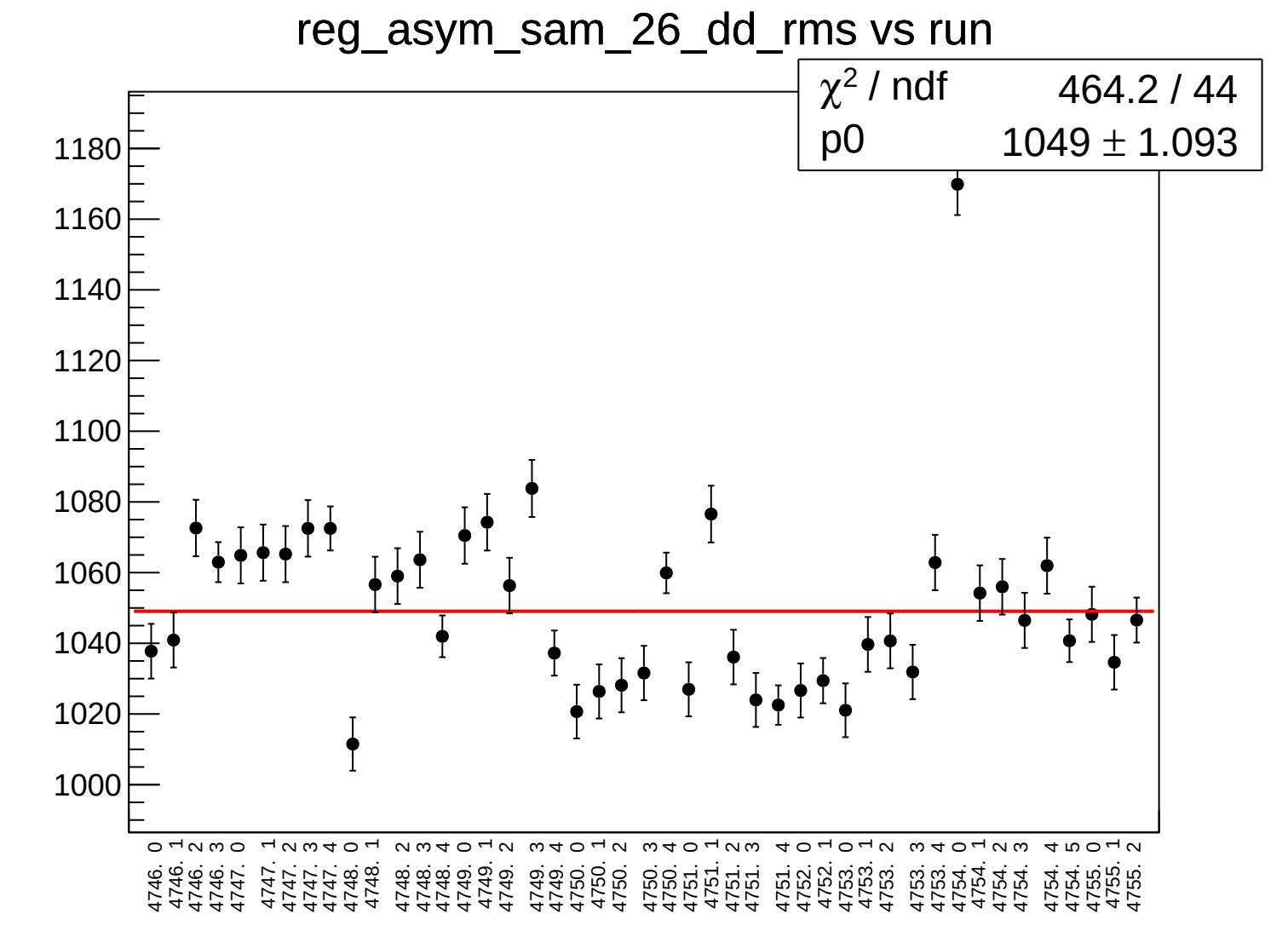

asym_sam_15_dd_correction_mean vs run
χ² / ndf 34.2 / 44
p0 −236.6 ± 498.7
10000
5000
0
−5000
−10000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 138.6
Std Dev 128.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

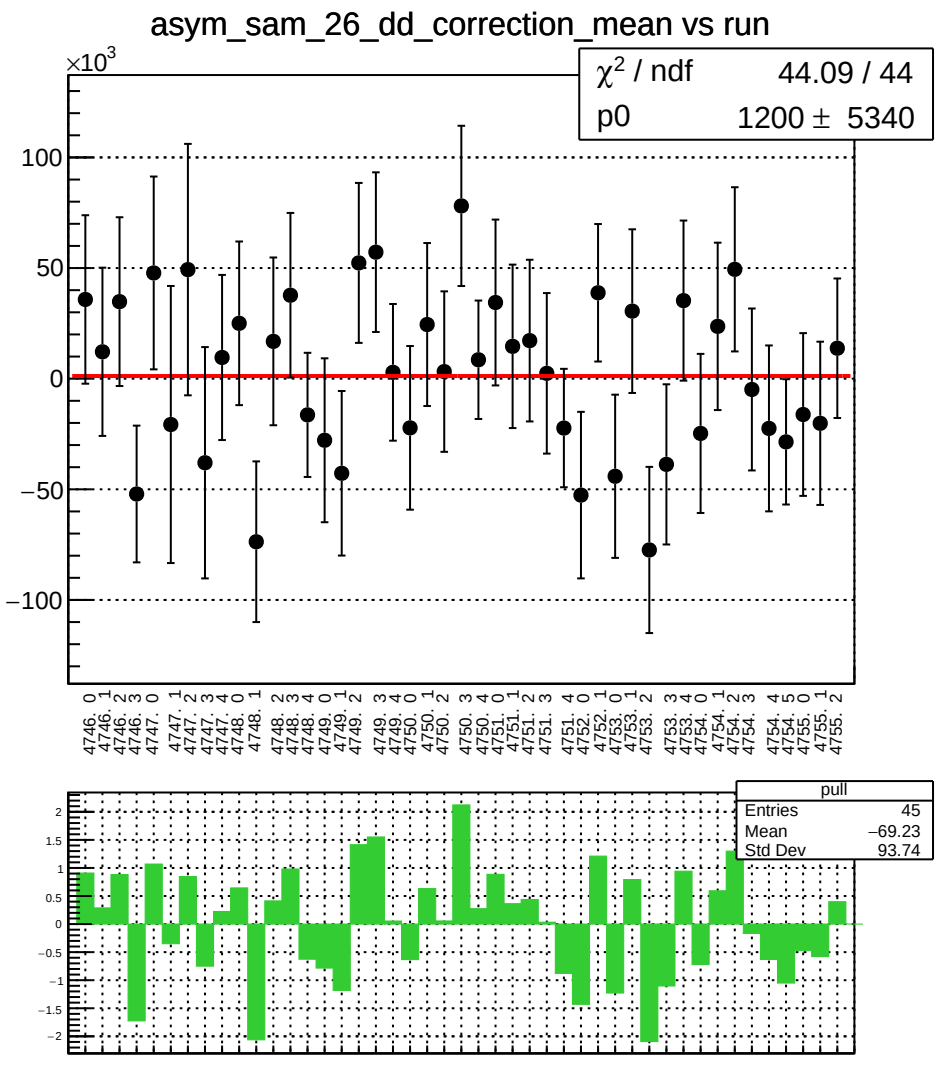

pull1D
Entries 45
Mean −0.005011
Std Dev 0.8718
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

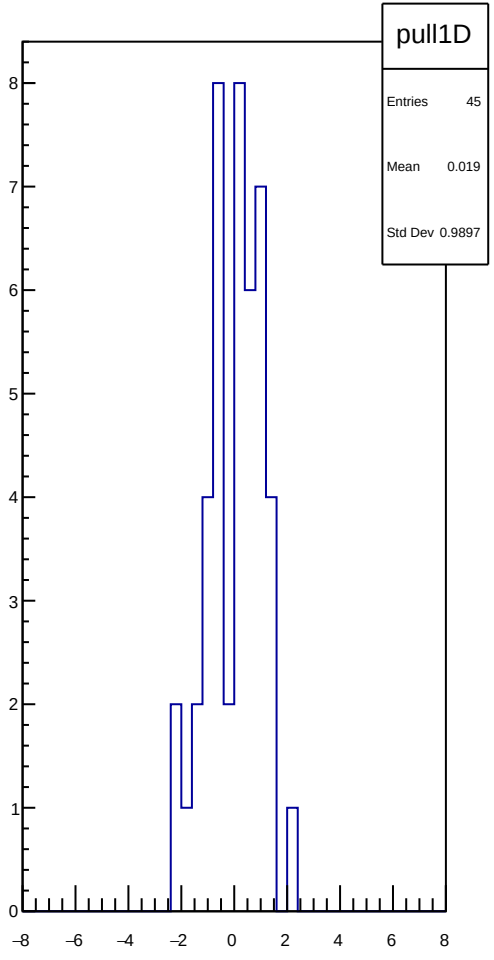

asym_sam_15_dd_correction_rms vs run
χ² / ndf 4554 / 44
p0 337.6 ± 0.3526
400
380
360
340
320
300
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

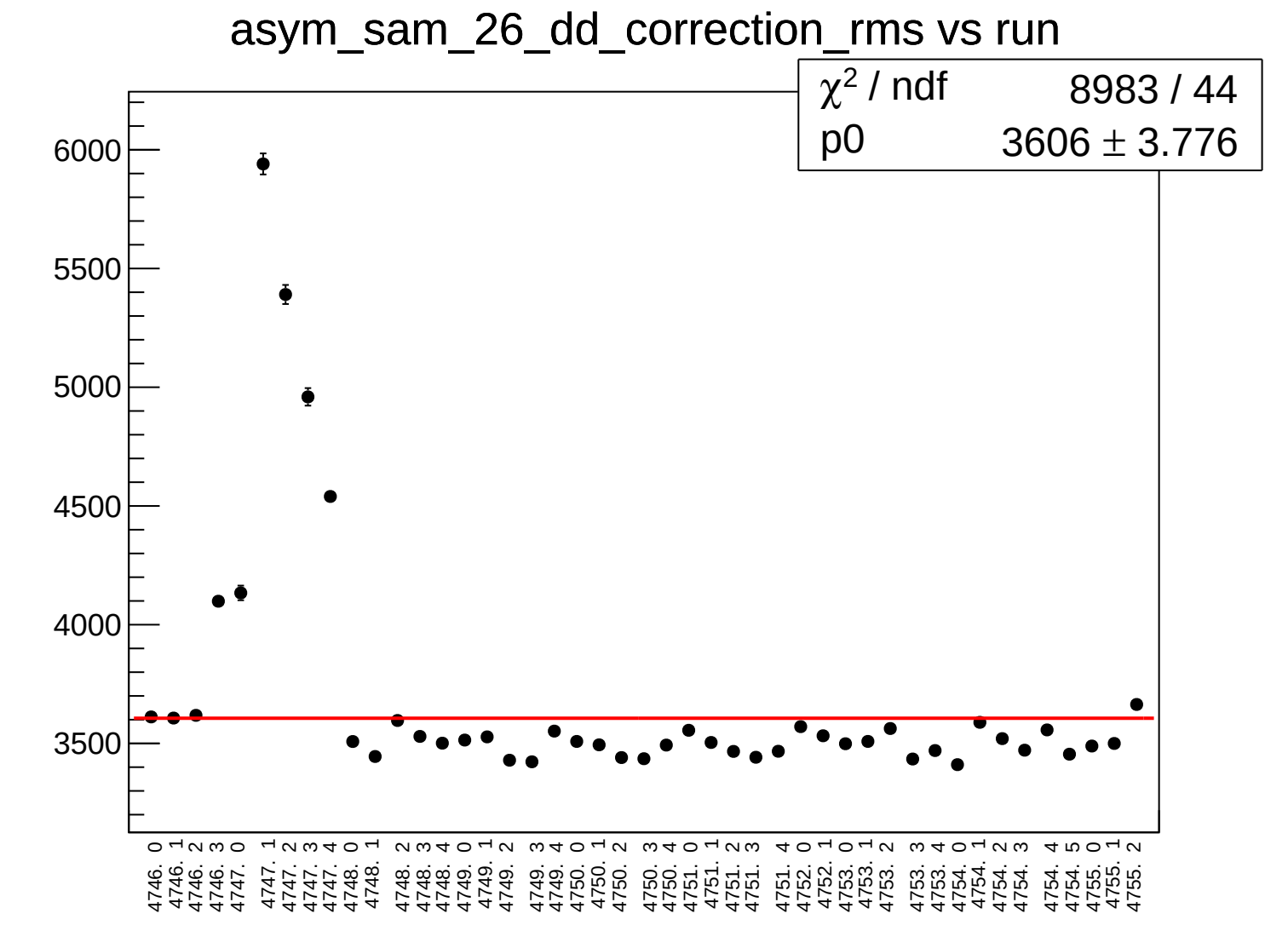

reg_asym_sam_26_dd_mean vs run
χ² / ndf 45.78 / 44
p0 1723 ± 1546
pull
Entries 45
Mean 21.72
Std Dev 4.297

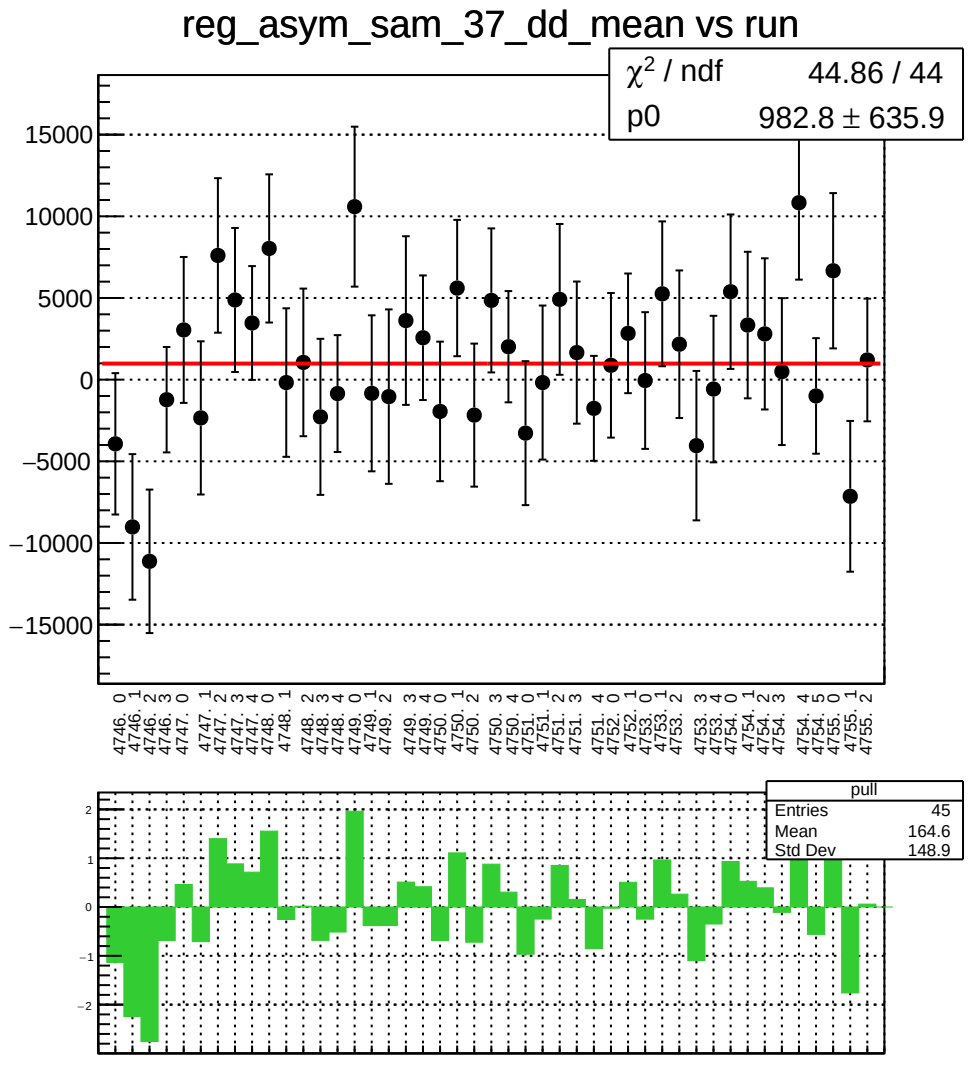

pull1D
Entries 45
Mean 0.02349
Std Dev 1.008

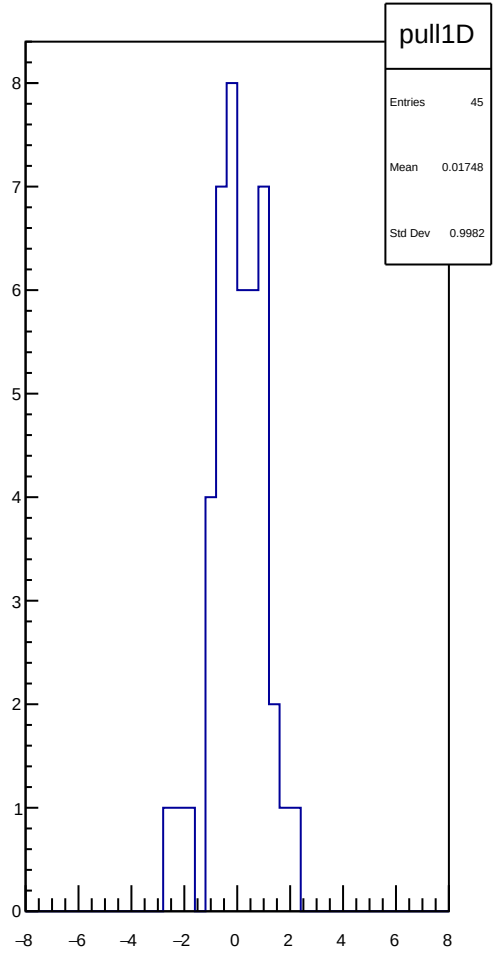

reg_asym_sam_26_dd_rms vs run
χ² / ndf 464.2 / 44
p0 1049 ± 1.093
1180
1160
1140
1120
1100
1080
1060
1040
1020
1000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

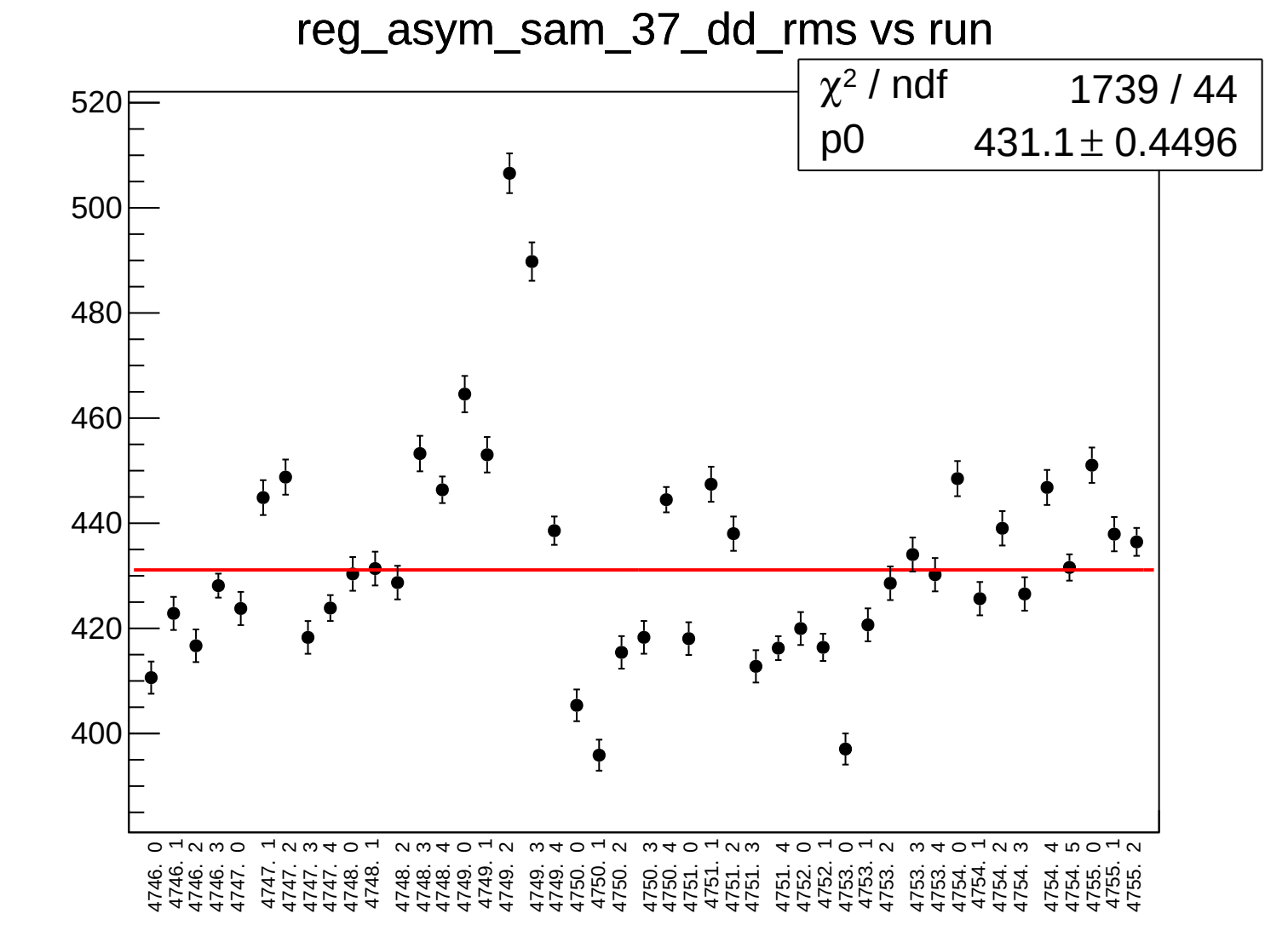

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 44.09 / 44
p0 1200 ± 5340
100
50
0
−50
−100
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −69.23
Std Dev 93.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

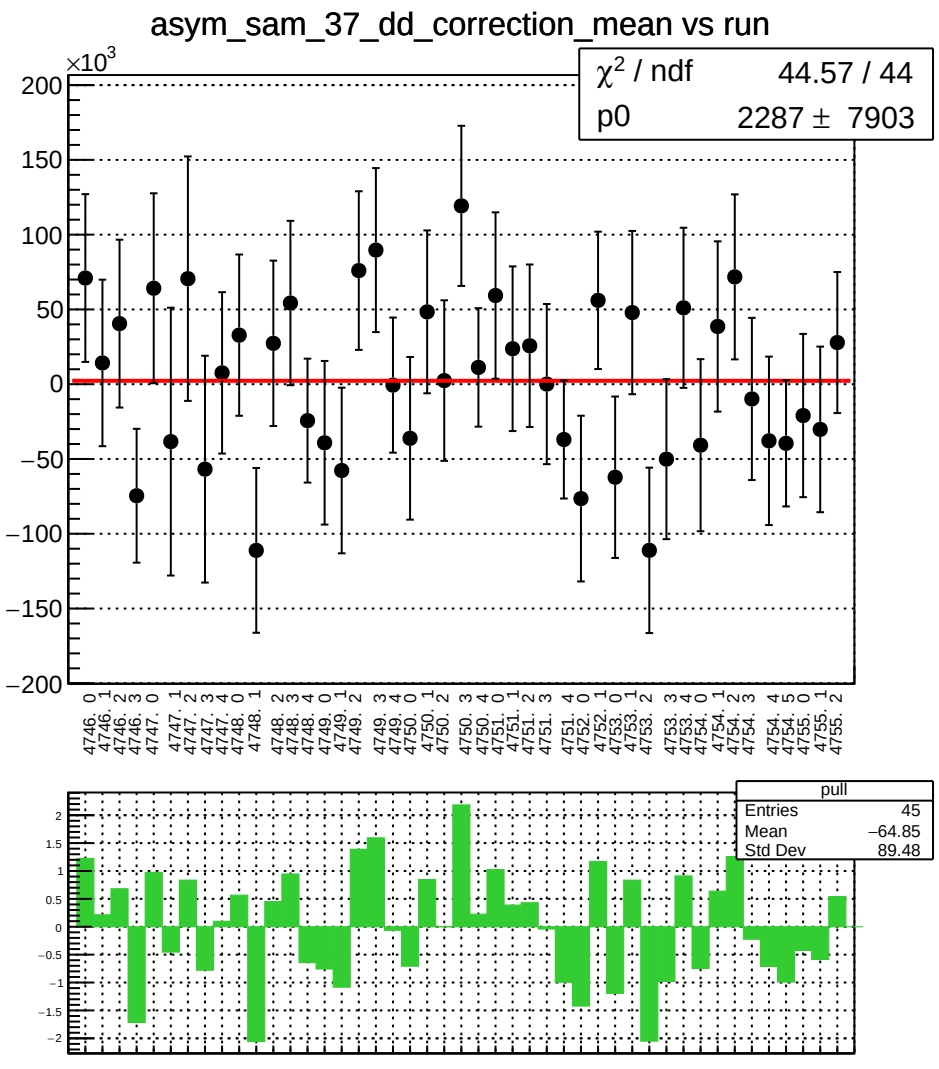

pull1D
Entries 45
Mean 0.019
Std Dev 0.9897
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

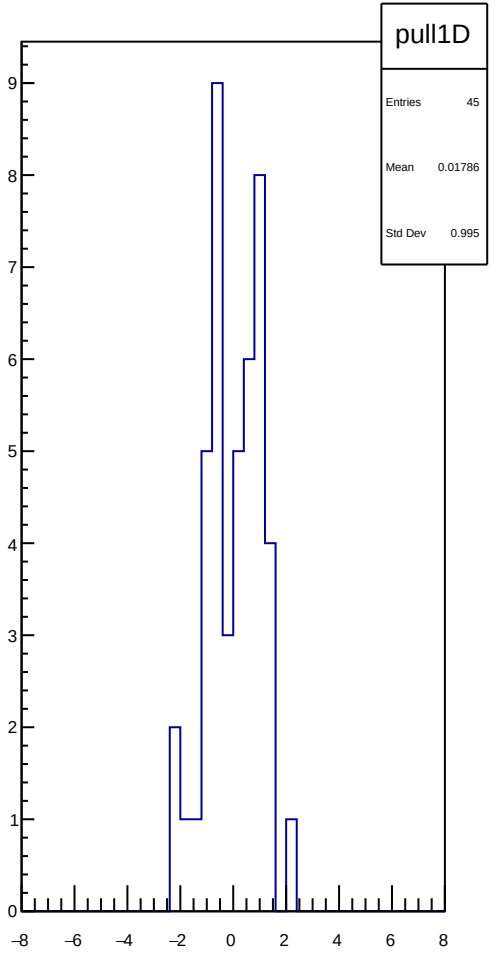

asym_sam_26_dd_correction_rms vs run
χ² / ndf 8983 / 44
p0 3606 ± 3.776
6000
5500
5000
4500
4000
3500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

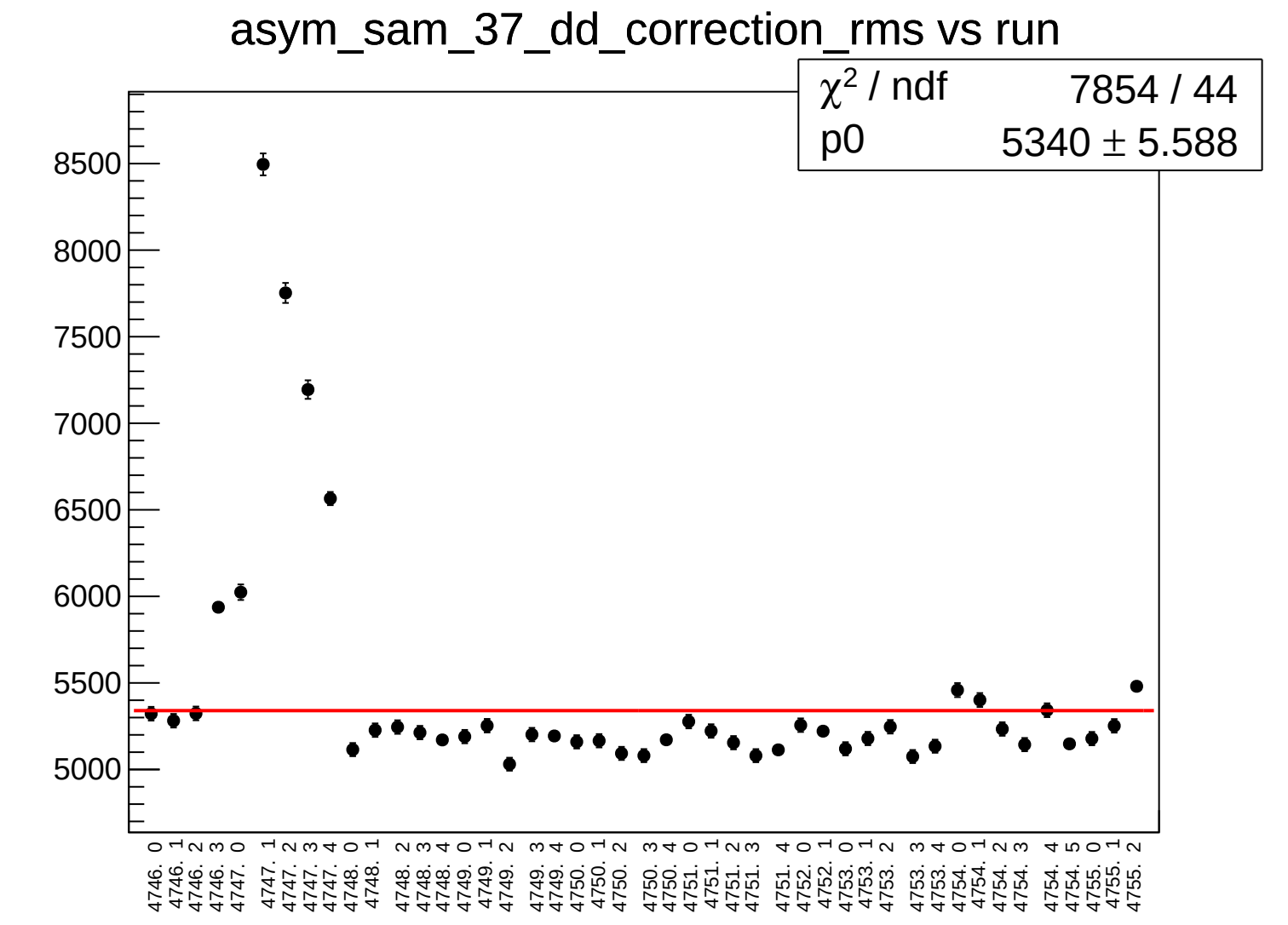

reg_asym_sam_37_dd_mean vs run
χ² / ndf 44.86 / 44
p0 982.8 ± 635.9
15000
10000
5000
0
−5000
−10000
−15000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 164.6
Std Dev 148.9
2
1
0
−1
−2

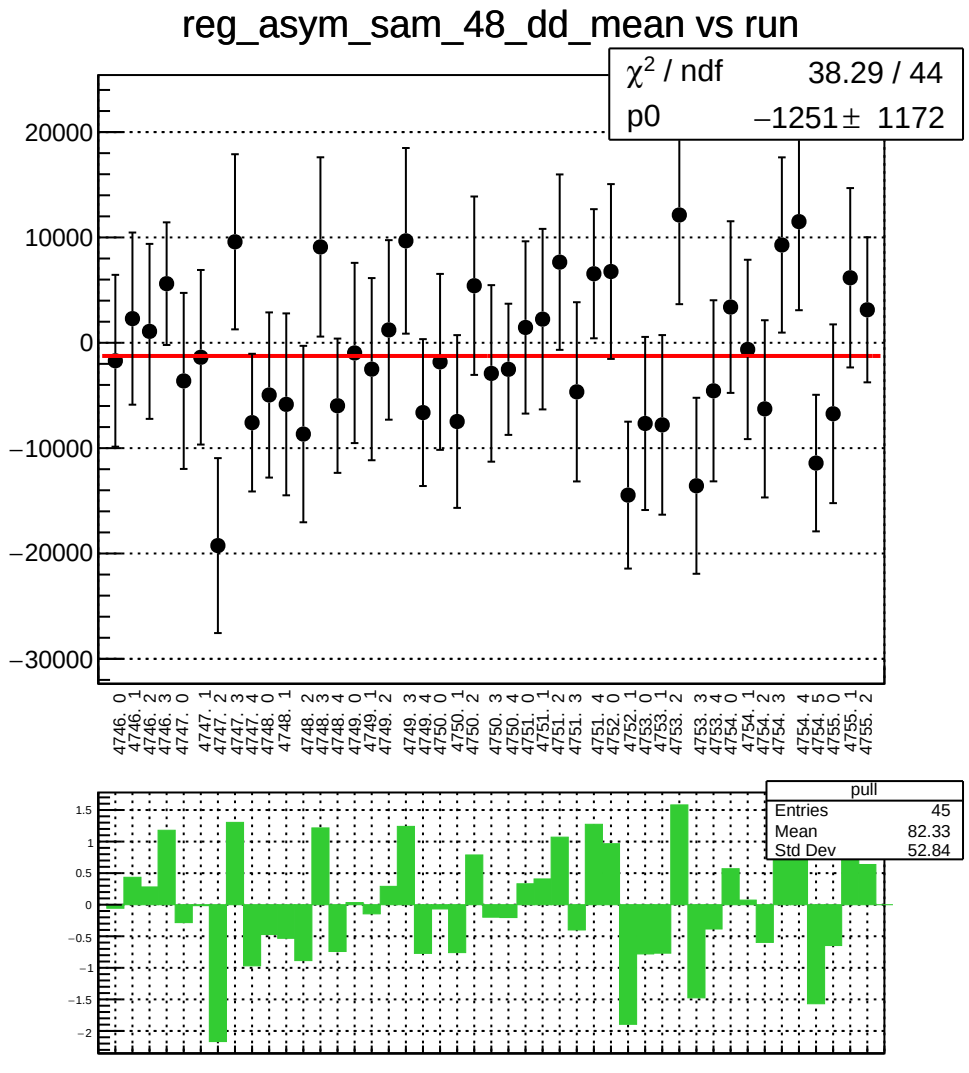

pull1D
Entries 45
Mean 0.01748
Std Dev 0.9982
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

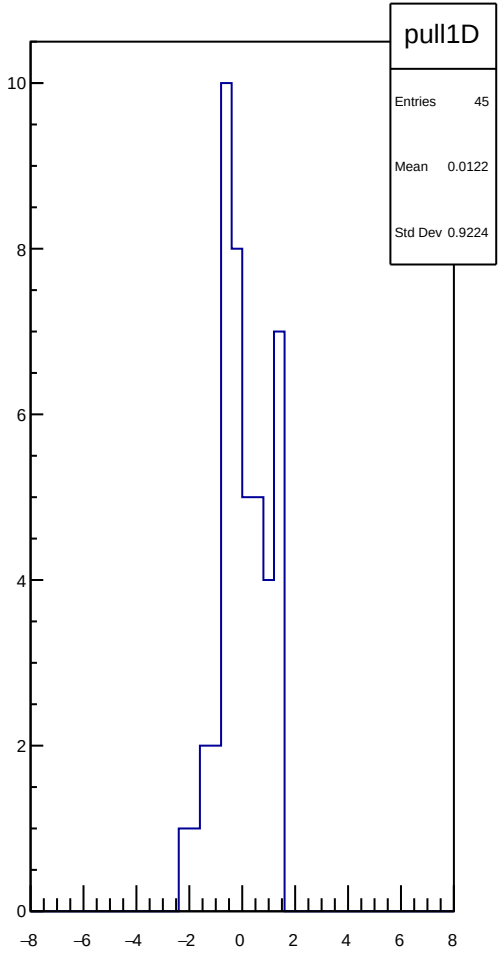

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1739 / 44
p0 431.1 ± 0.4496
520
500
480
460
440
420
400
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

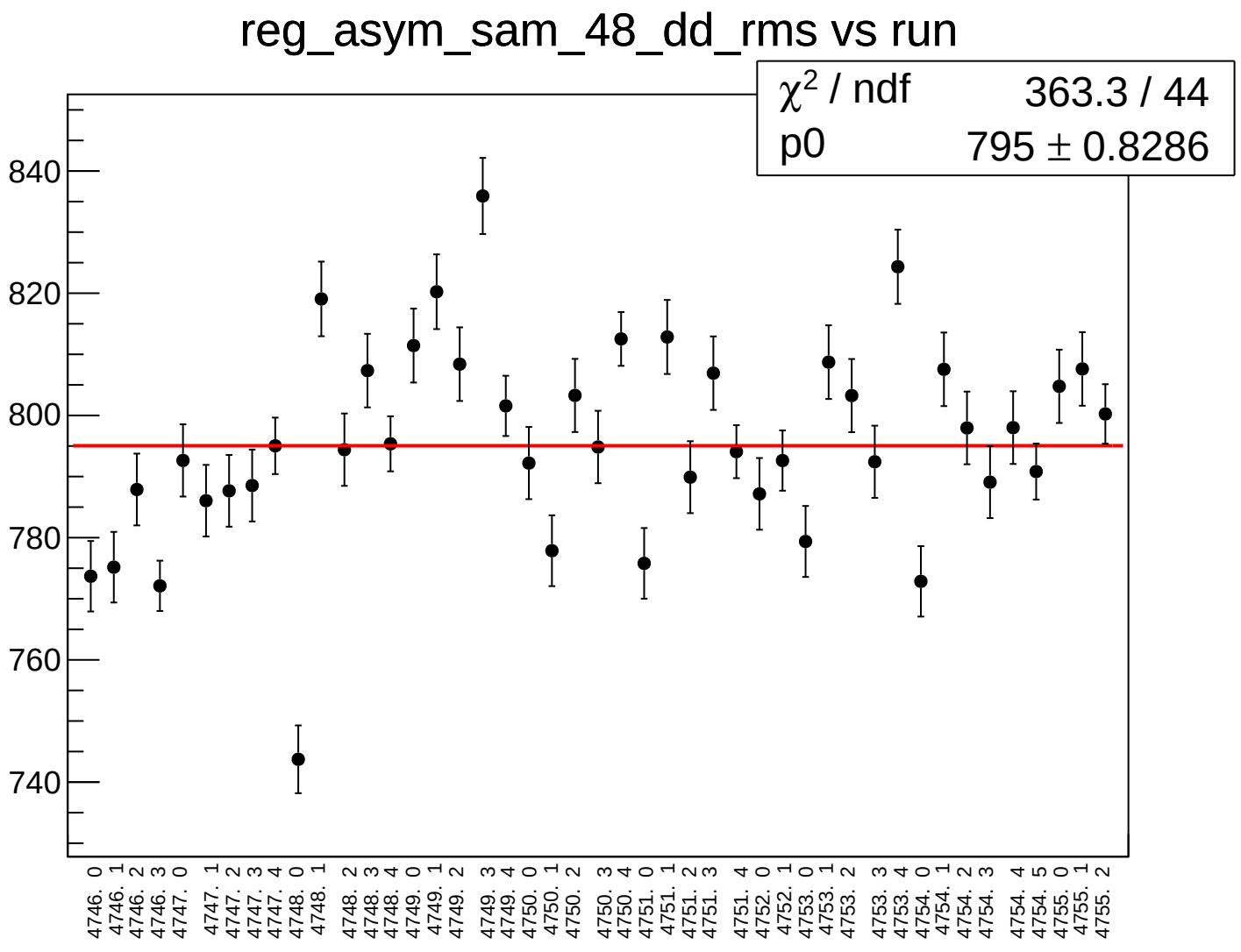

asym_sam_37_dd_correction_mean vs run
×10^3
χ² / ndf 44.57 / 44
p0 2287 ± 7903
pull
Entries 45
Mean −64.85
Std Dev 89.48

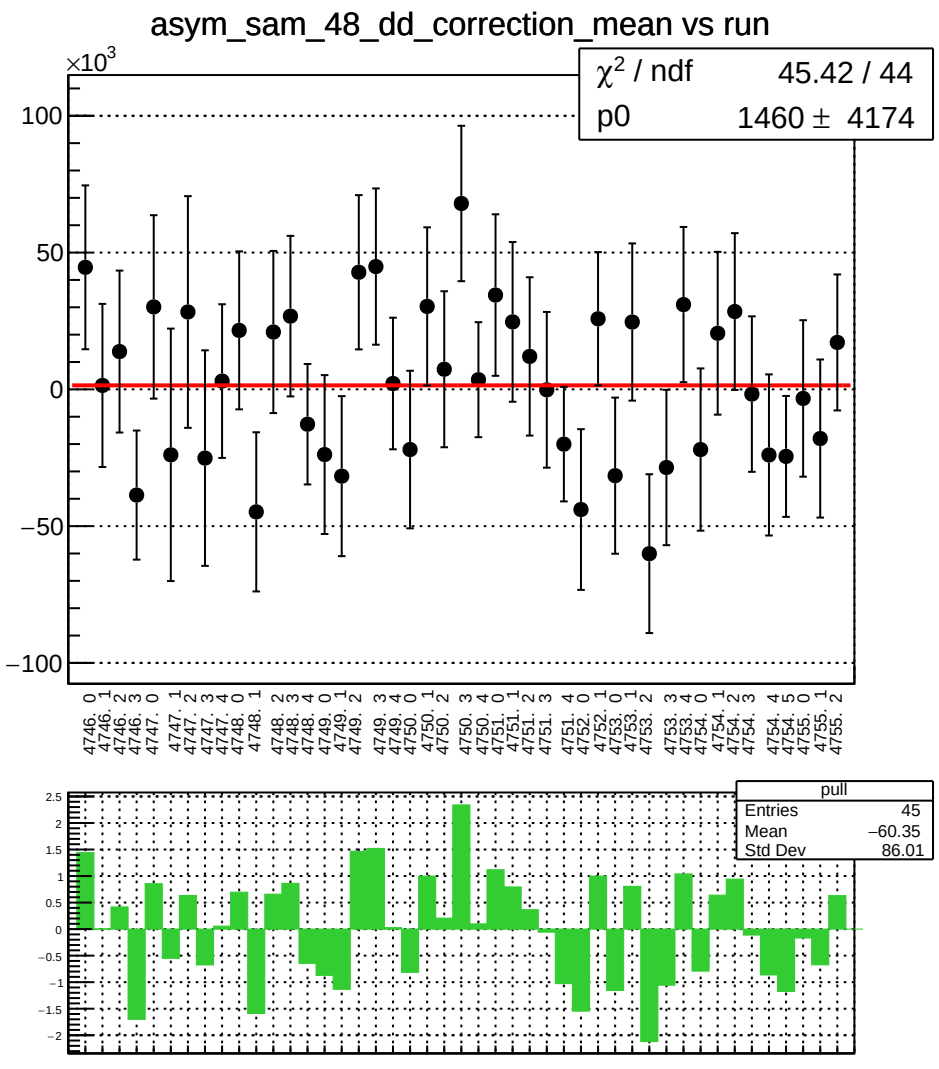

pull1D
Entries 45
Mean 0.01786
Std Dev 0.995

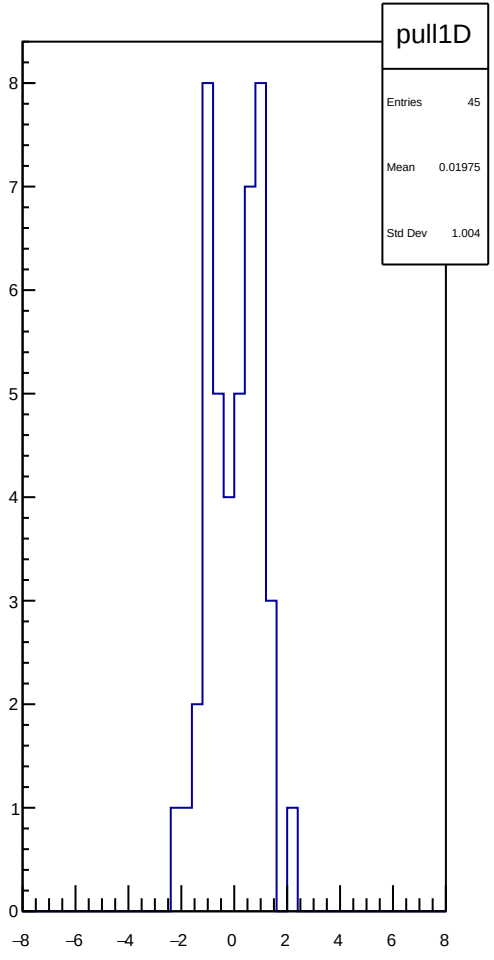

asym_sam_37_dd_correction_rms vs run
χ² / ndf 7854 / 44
p0 5340 ± 5.588
8500
8000
7500
7000
6500
6000
5500
5000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

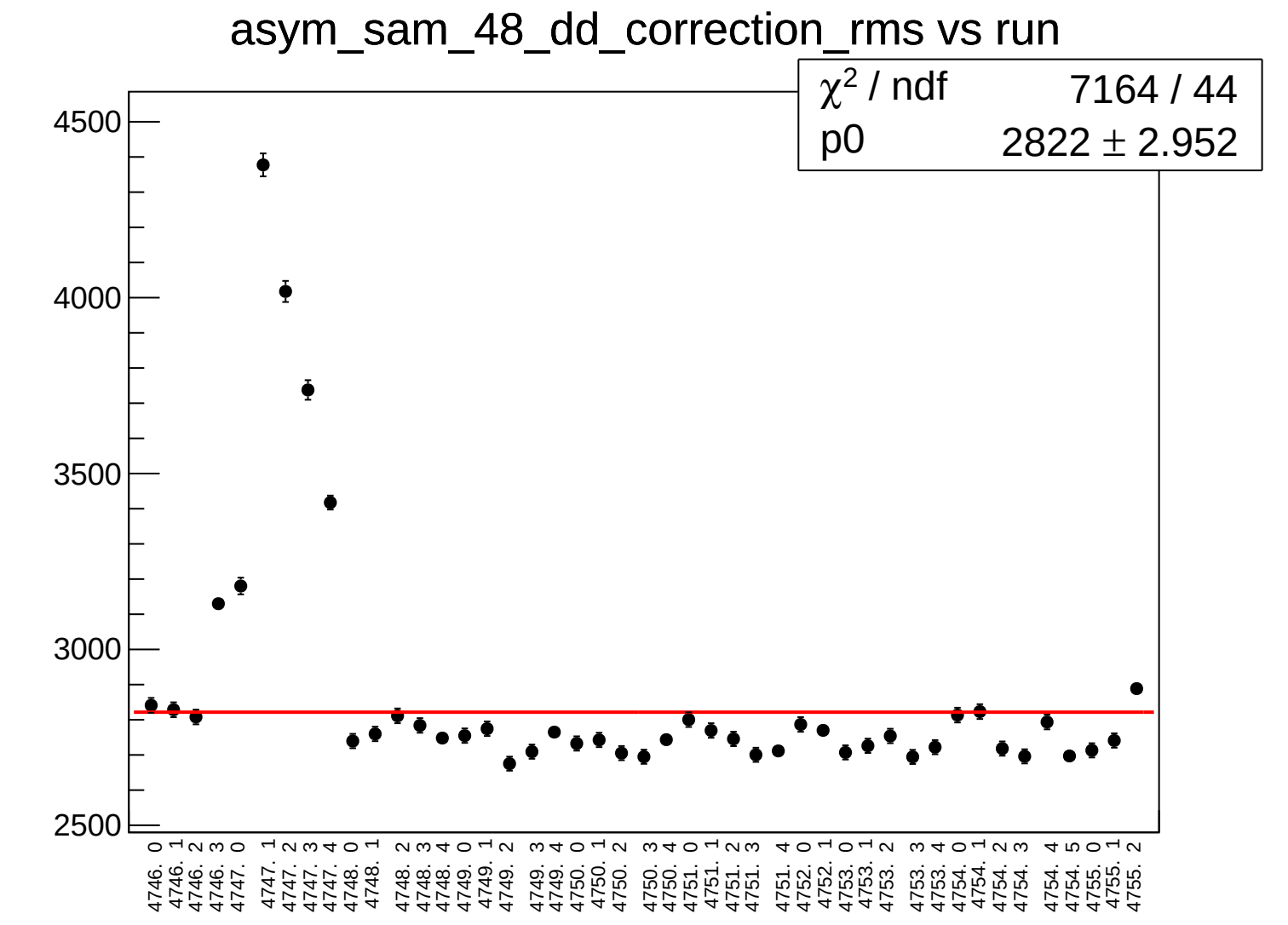

reg_asym_sam_48_dd_mean vs run
χ² / ndf 38.29 / 44
p0 −1251 ± 1172
20000
10000
0
−10000
−20000
−30000
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 82.33
Std Dev 52.84
1.5
1
0.5
0
−0.5
−1
−1.5
−2

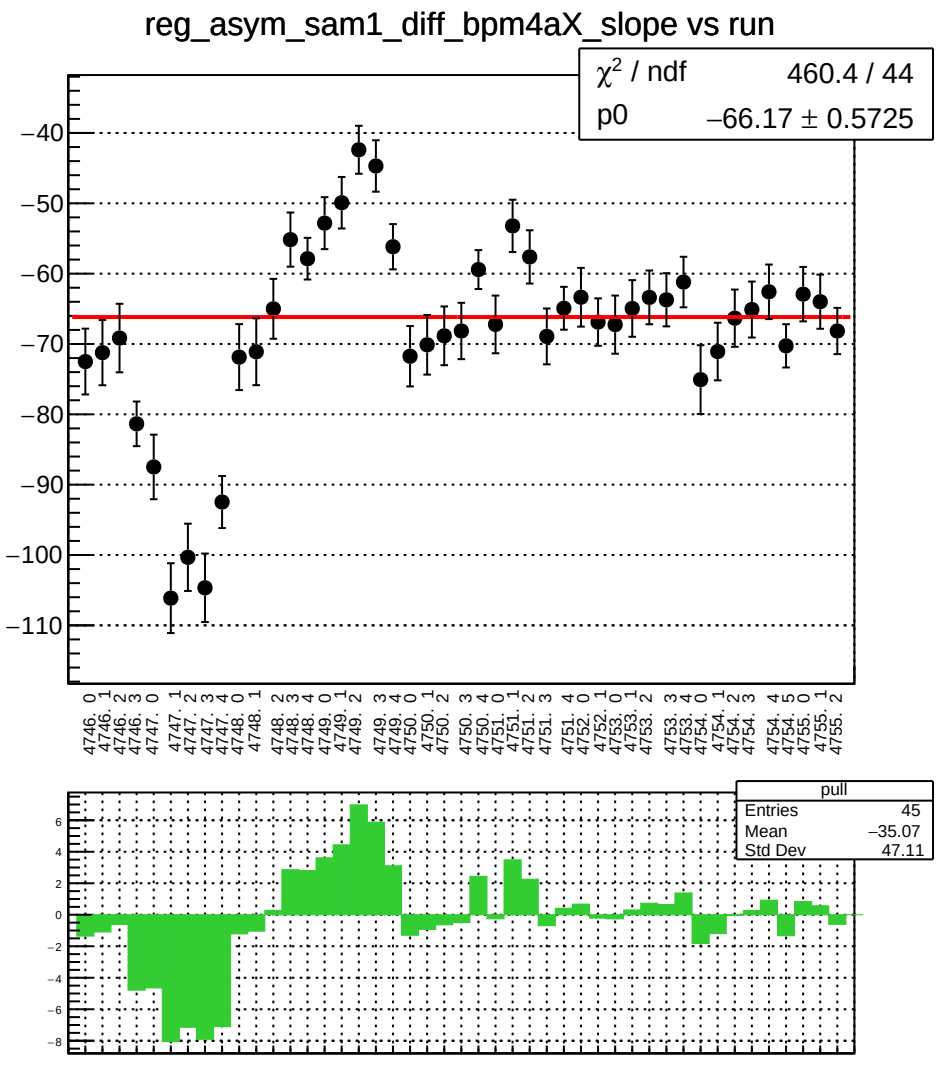

pull1D
Entries 45
Mean 0.0122
Std Dev 0.9224
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

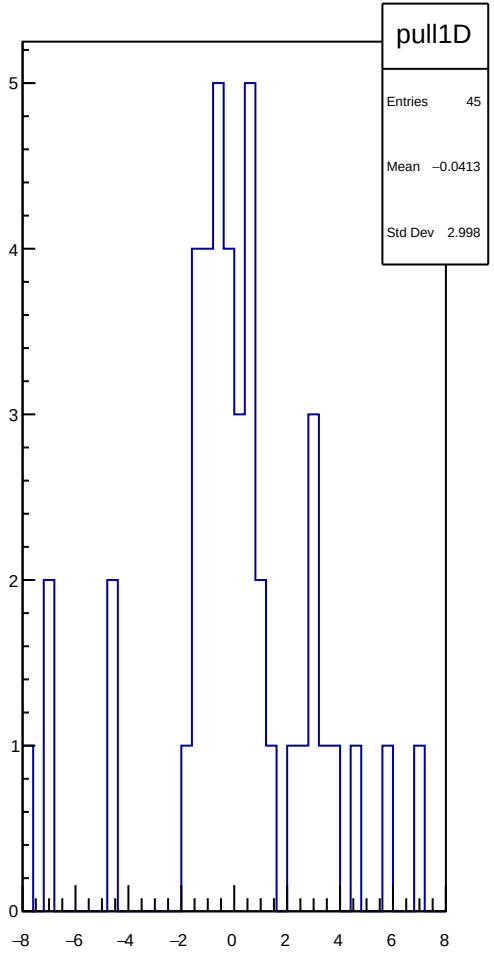

reg_asym_sam_48_dd_rms vs run
χ² / ndf 363.3 / 44
p0 795 ± 0.8286
840
820
800
780
760
740
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

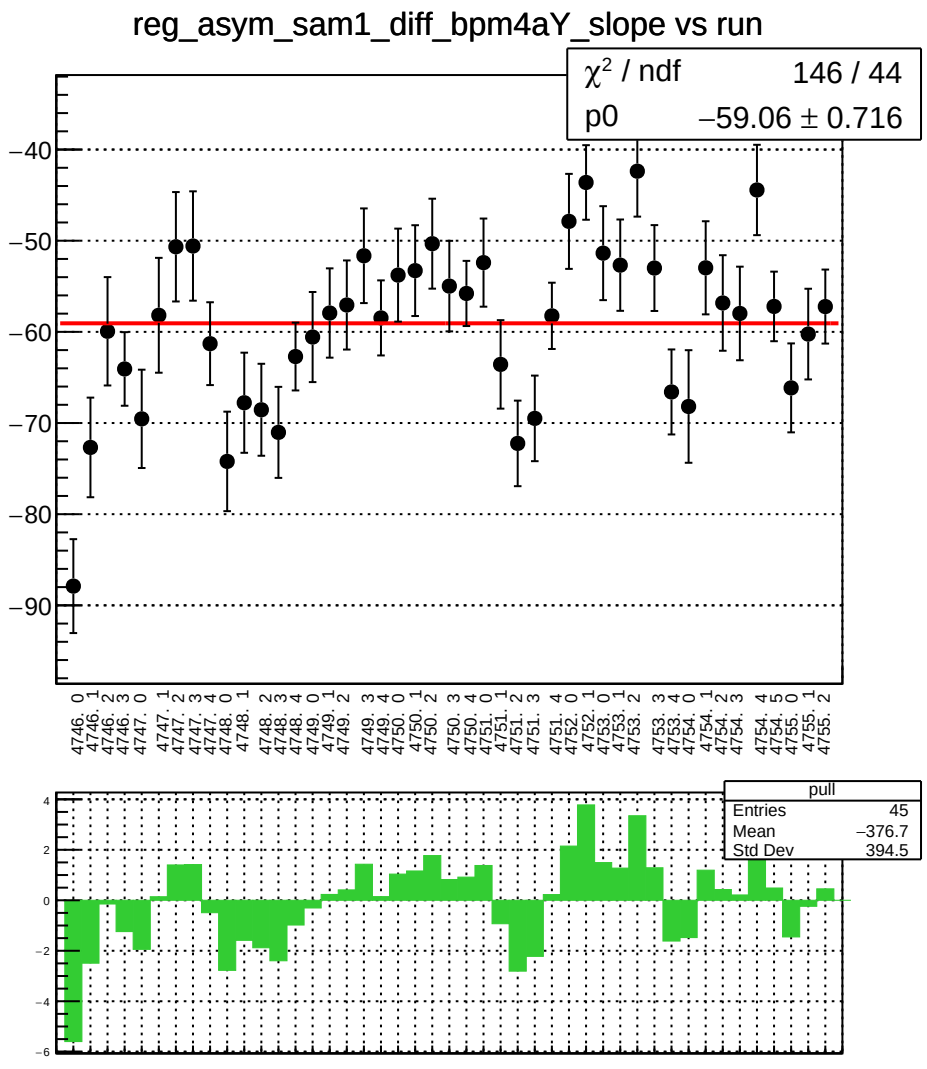

asym_sam_48_dd_correction_mean vs run
×10^3
χ² / ndf 45.42 / 44
p0 1460 ± 4174
100
50
0
−50
−100
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −60.35
Std Dev 86.01
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

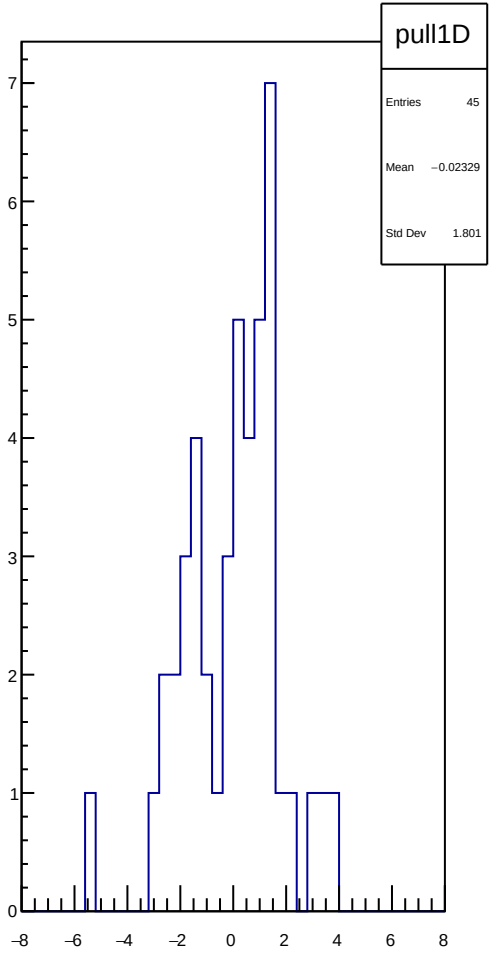

pull1D
Entries 45
Mean 0.01975
Std Dev 1.004
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

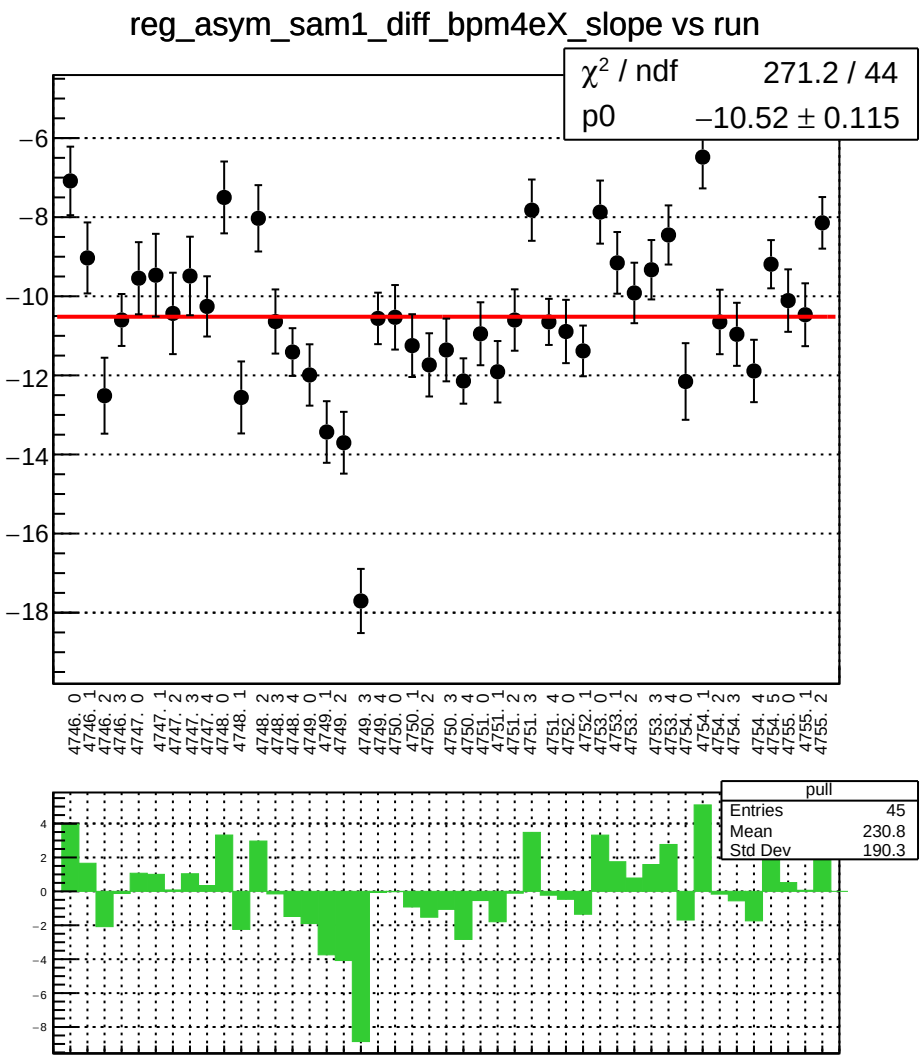

asym_sam_48_dd_correction_rms vs run
χ² / ndf 7164 / 44
p0 2822 ± 2.952
4500
4000
3500
3000
2500
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2

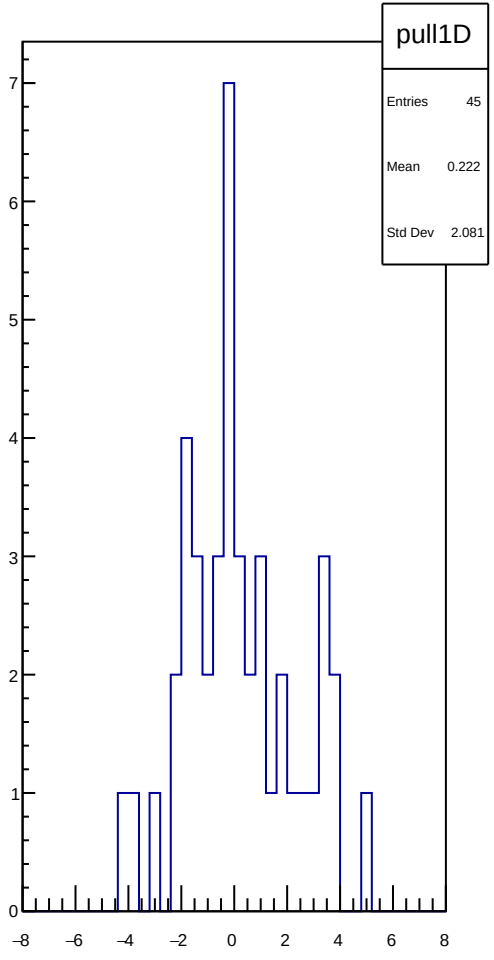

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 460.4 / 44
p0 −66.17 ± 0.5725
pull
Entries 45
Mean −35.07
Std Dev 47.11

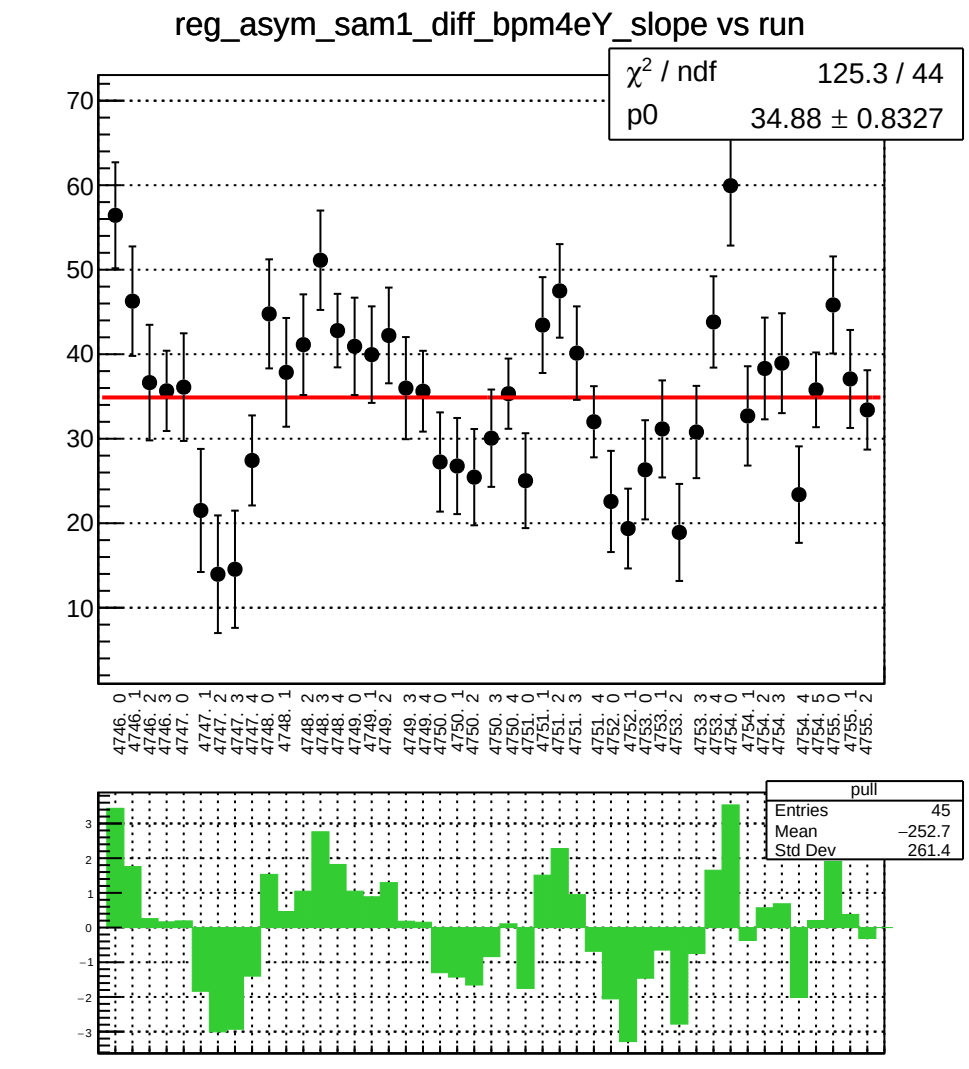

pull1D
Entries 45
Mean −0.0413
Std Dev 2.998

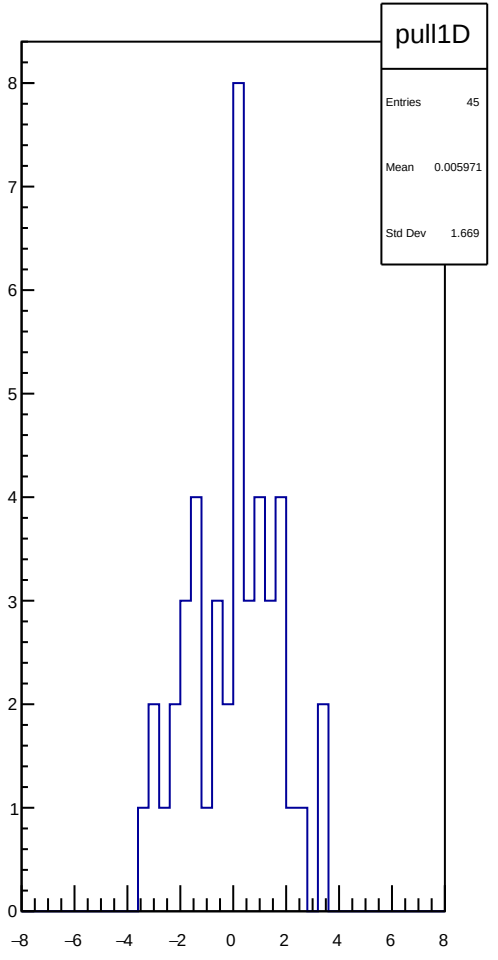

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 146 / 44
p0 −59.06 ± 0.716
pull
Entries 45
Mean −376.7
Std Dev 394.5

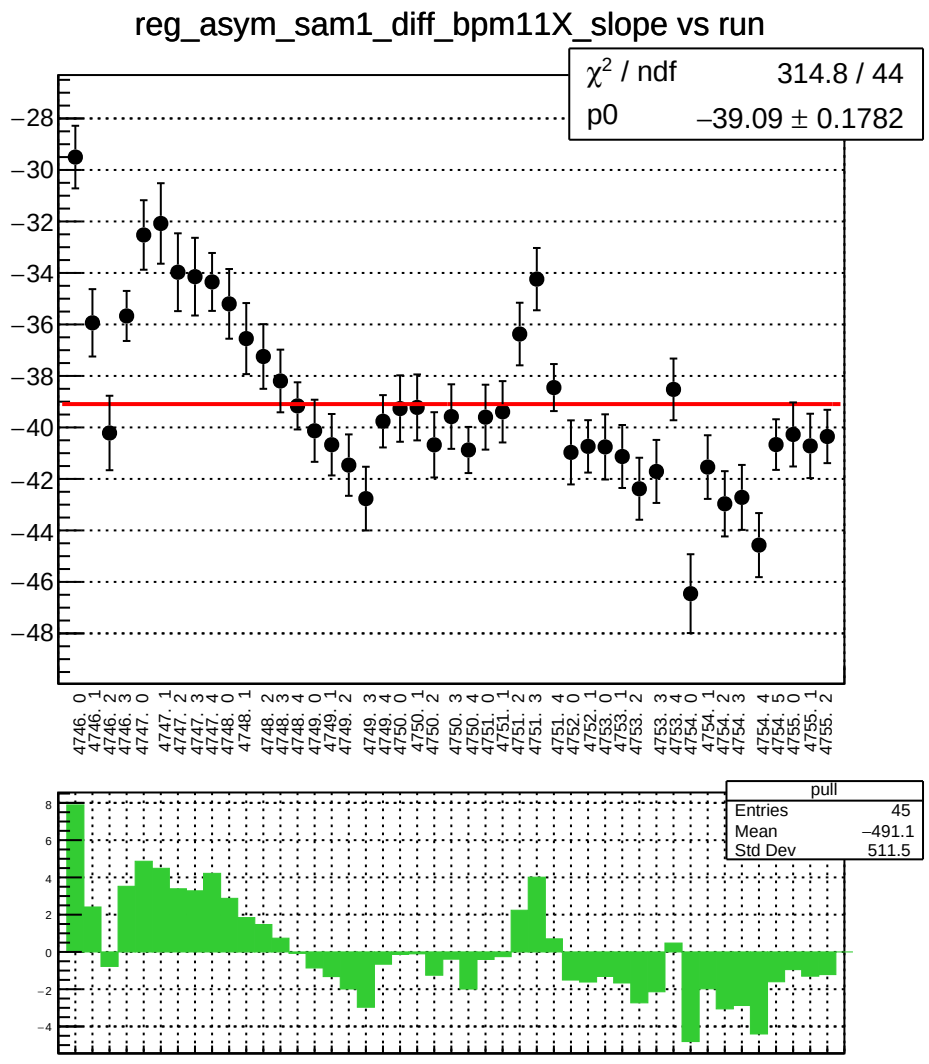

pull1D
Entries 45
Mean −0.02329
Std Dev 1.801

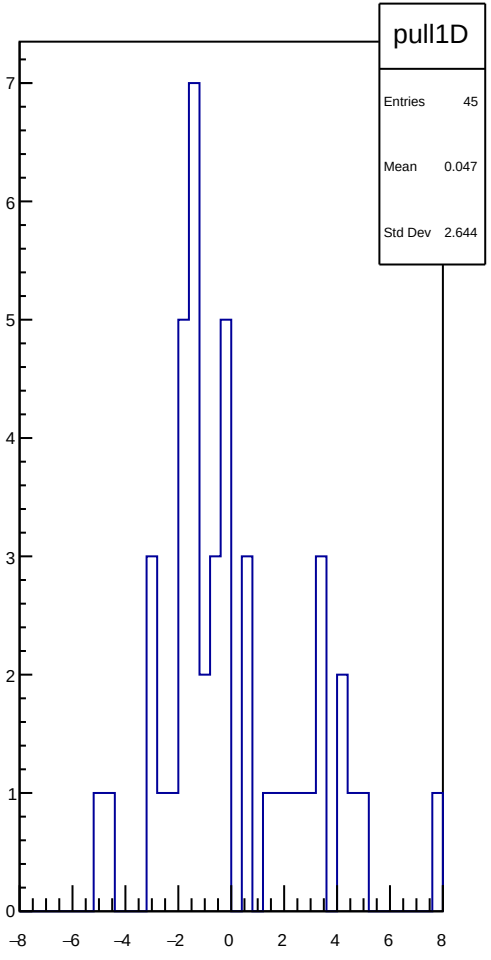

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 271.2 / 44
p0 −10.52 ± 0.115
pull
Entries 45
Mean 230.8
Std Dev 190.3

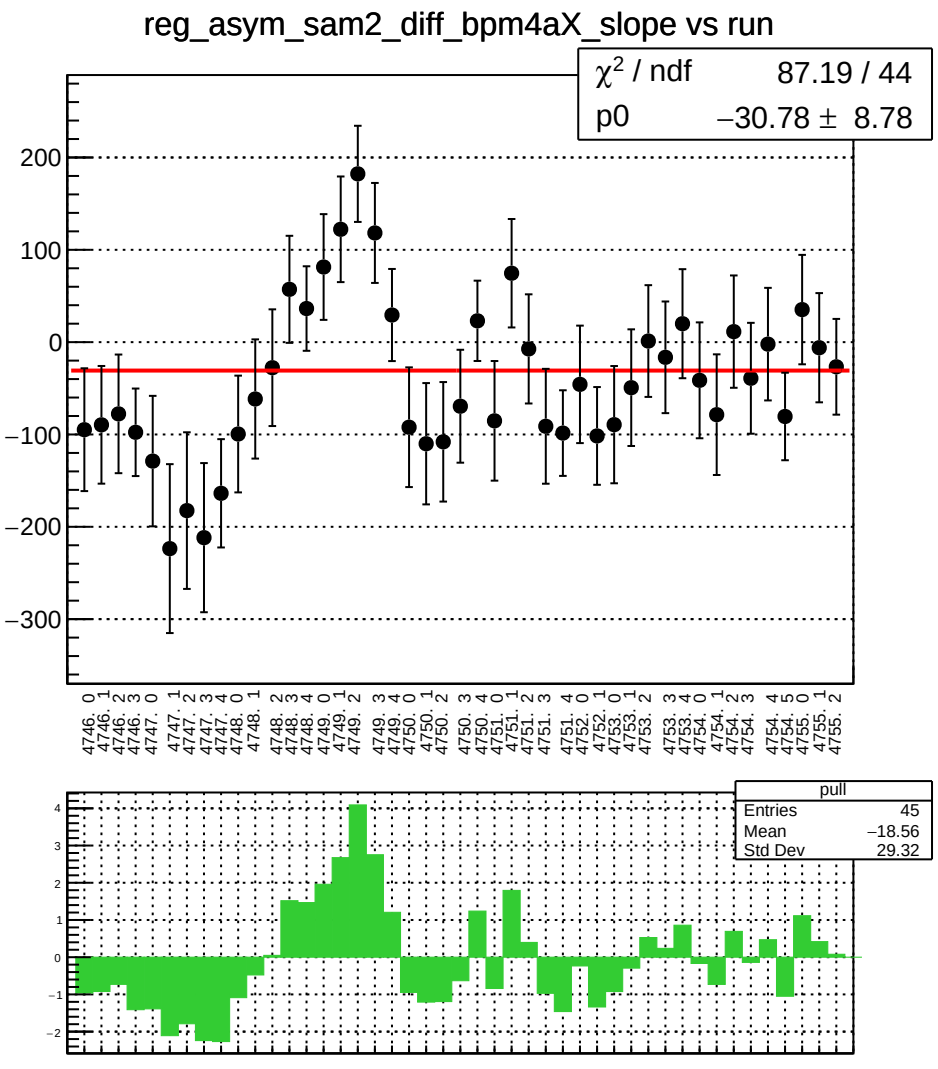

pull1D
Entries 45
Mean 0.222
Std Dev 2.081

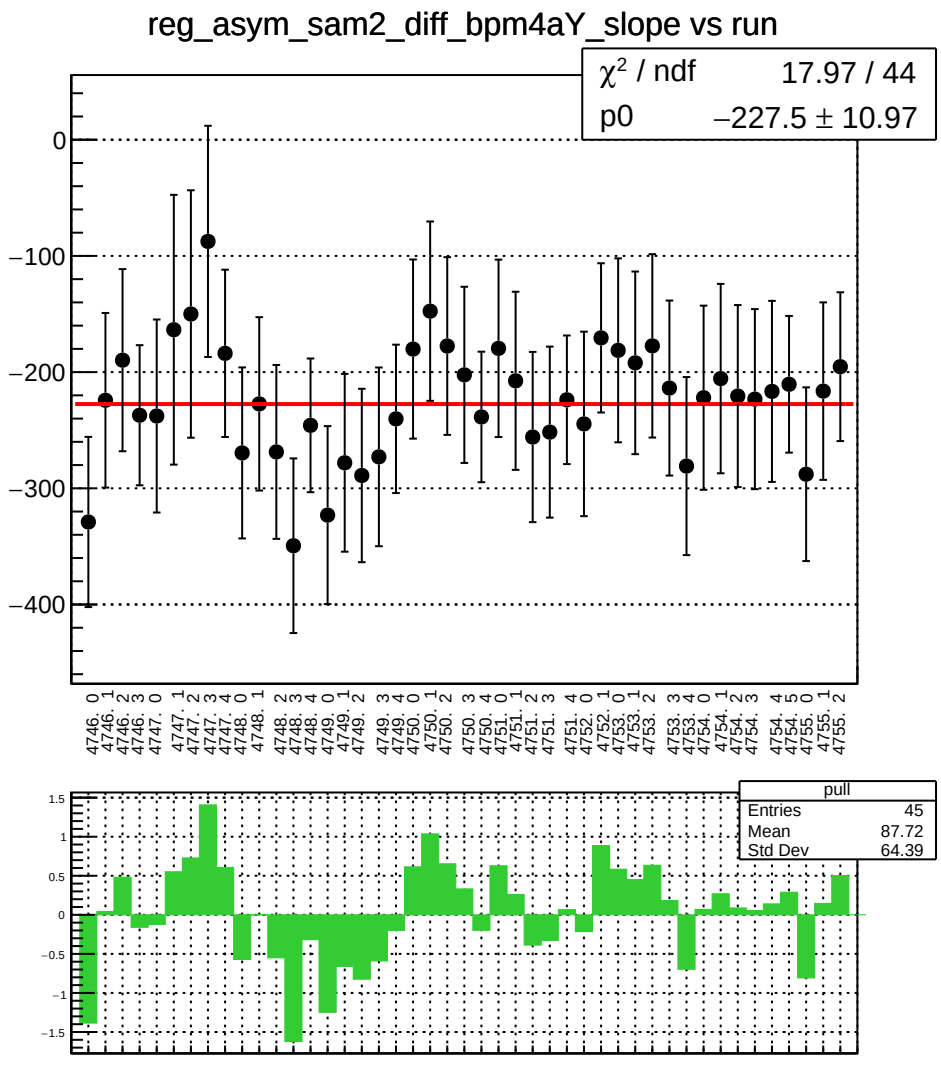

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 125.3 / 44
p0 34.88 ± 0.8327
70
60
50
40
30
20
10
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −252.7
Std Dev 261.4
3
2
1
0
−1
−2
−3

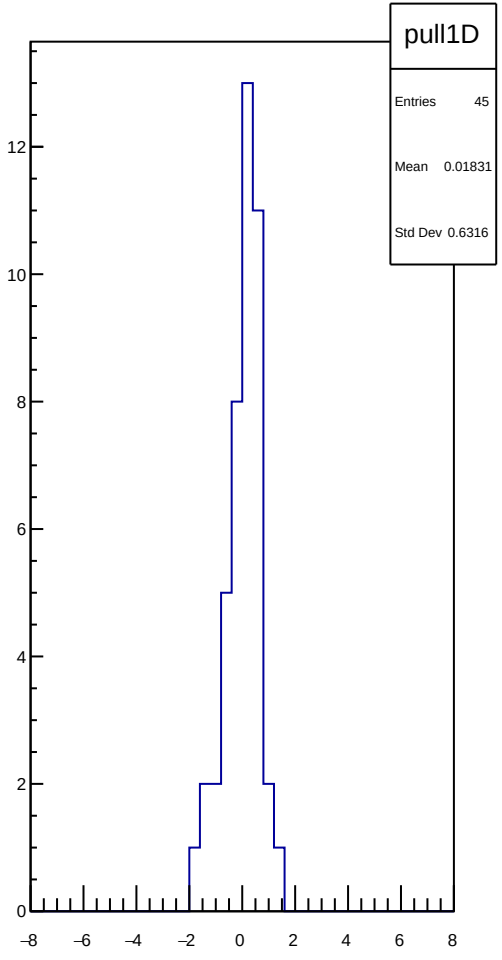

pull1D
Entries 45
Mean 0.005971
Std Dev 1.669
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

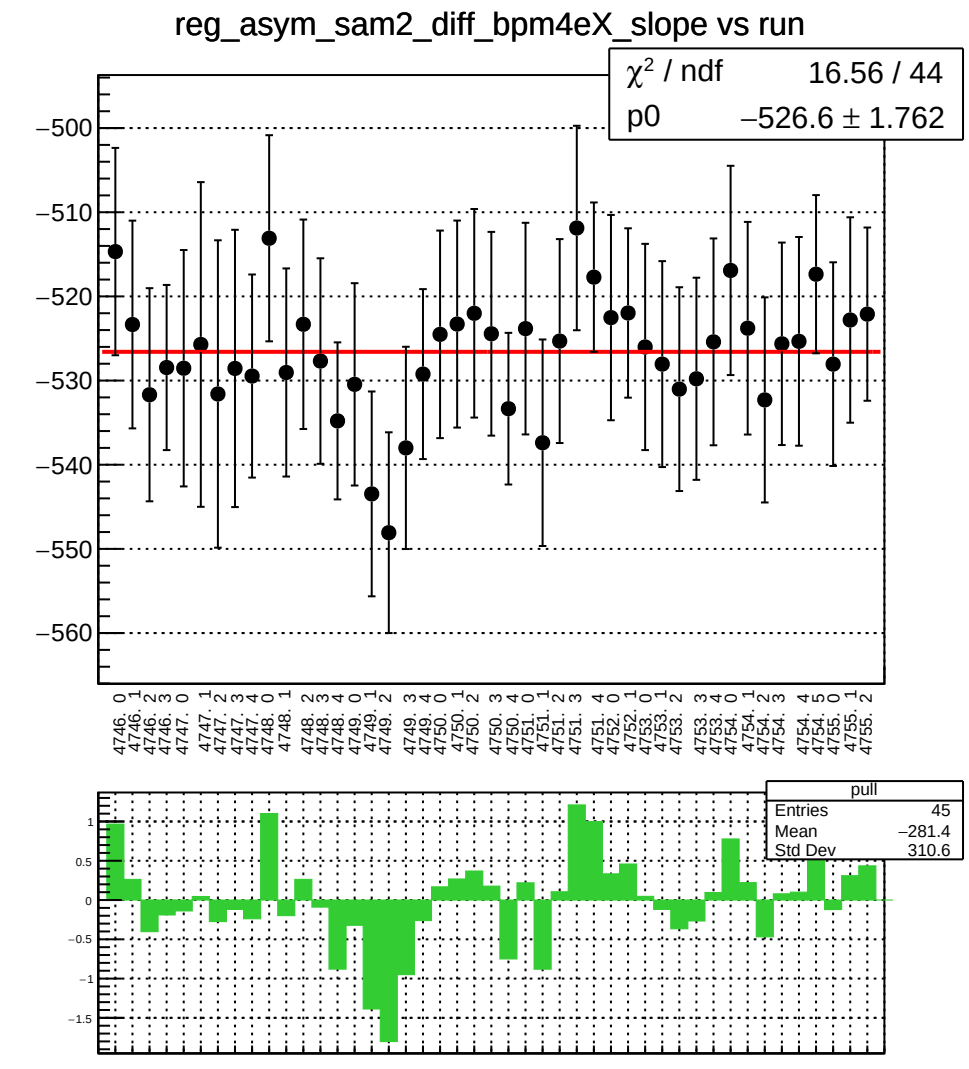

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 314.8 / 44
p0 −39.09 ± 0.1782
pull
Entries 45
Mean −491.1
Std Dev 511.5

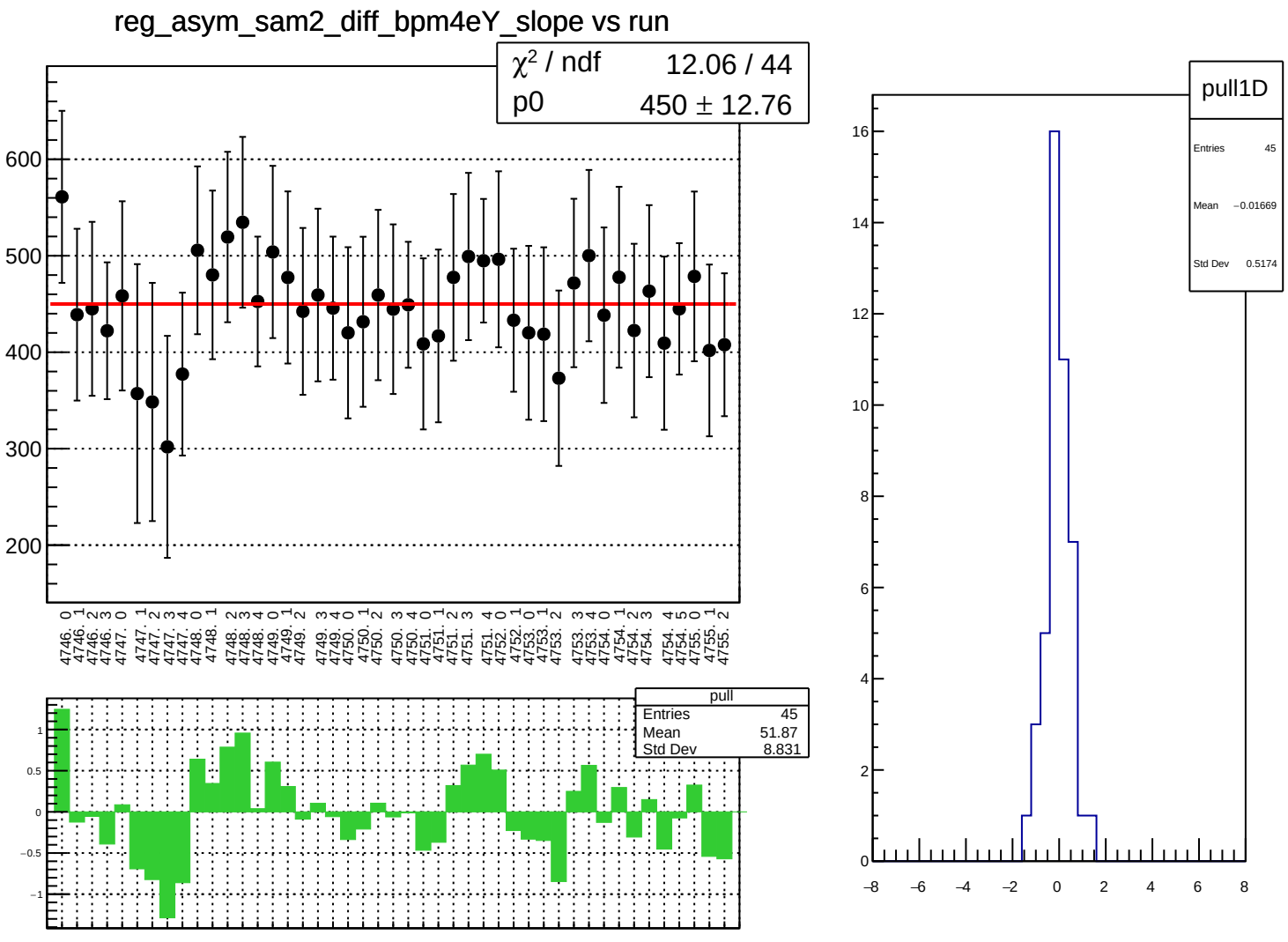

pull1D
Entries 45
Mean 0.047
Std Dev 2.644

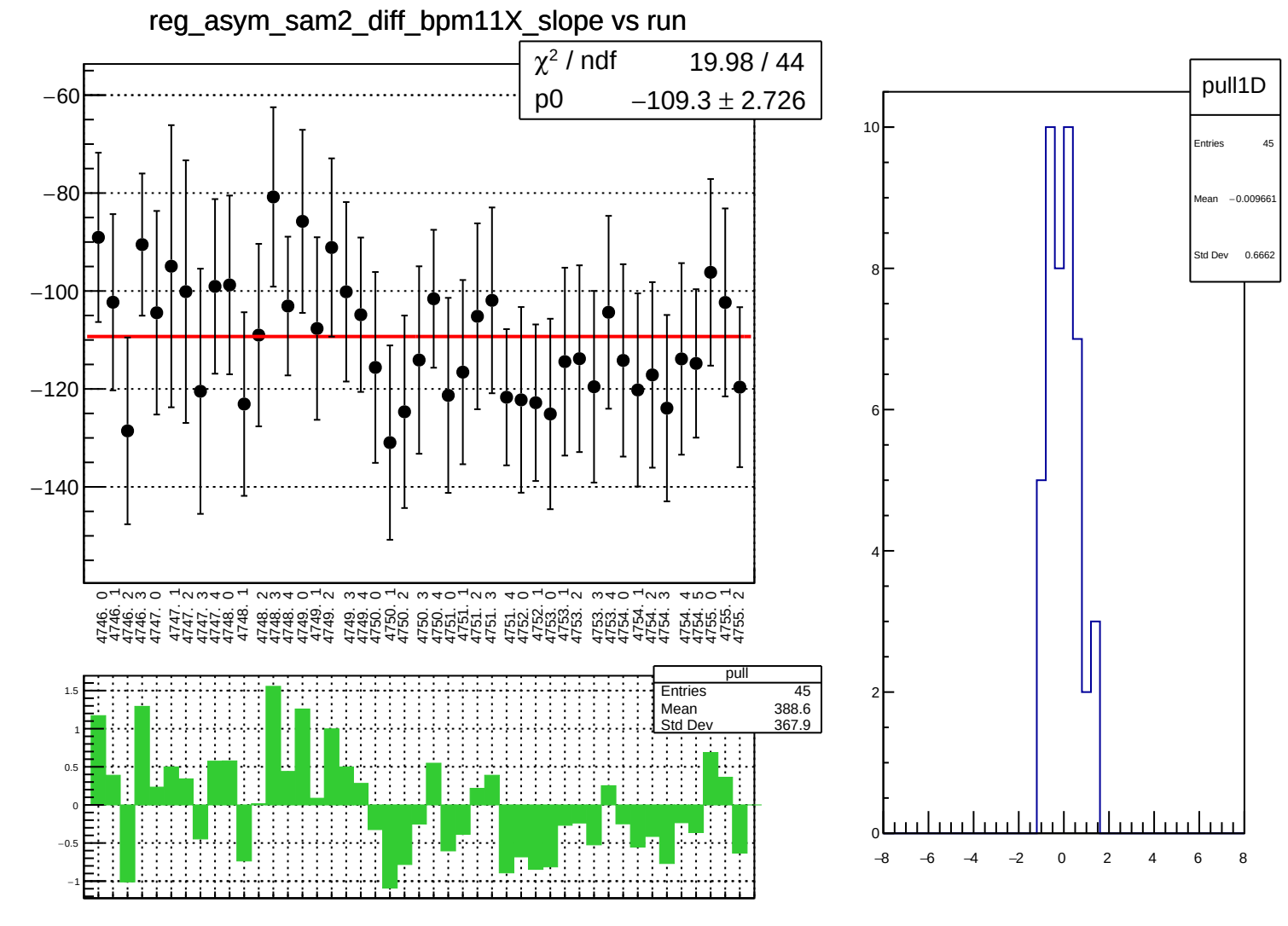

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 87.19 / 44
p0 −30.78 ± 8.78
200
100
0
−100
−200
−300
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −18.56
Std Dev 29.32
4
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.08792
Std Dev 1.389
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

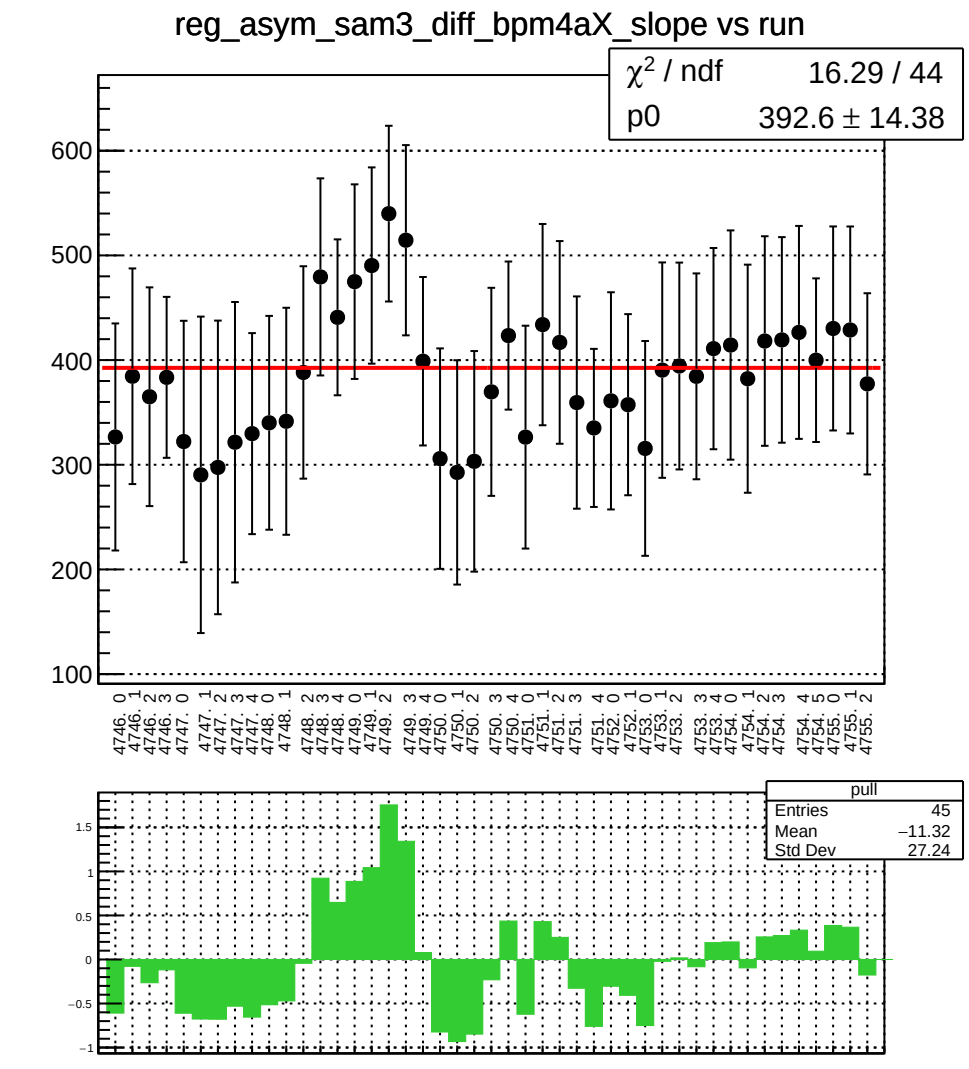

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 17.97 / 44
p0 −227.5 ± 10.97
0
−100
−200
−300
−400
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 87.72
Std Dev 64.39
1.5
1
0.5
0
−0.5
−1
−1.5

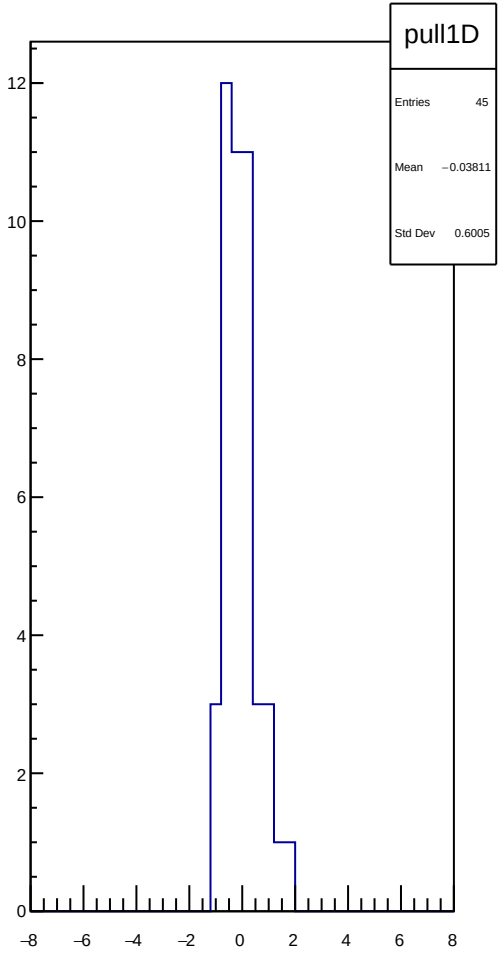

pull1D
Entries 45
Mean 0.01831
Std Dev 0.6316
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

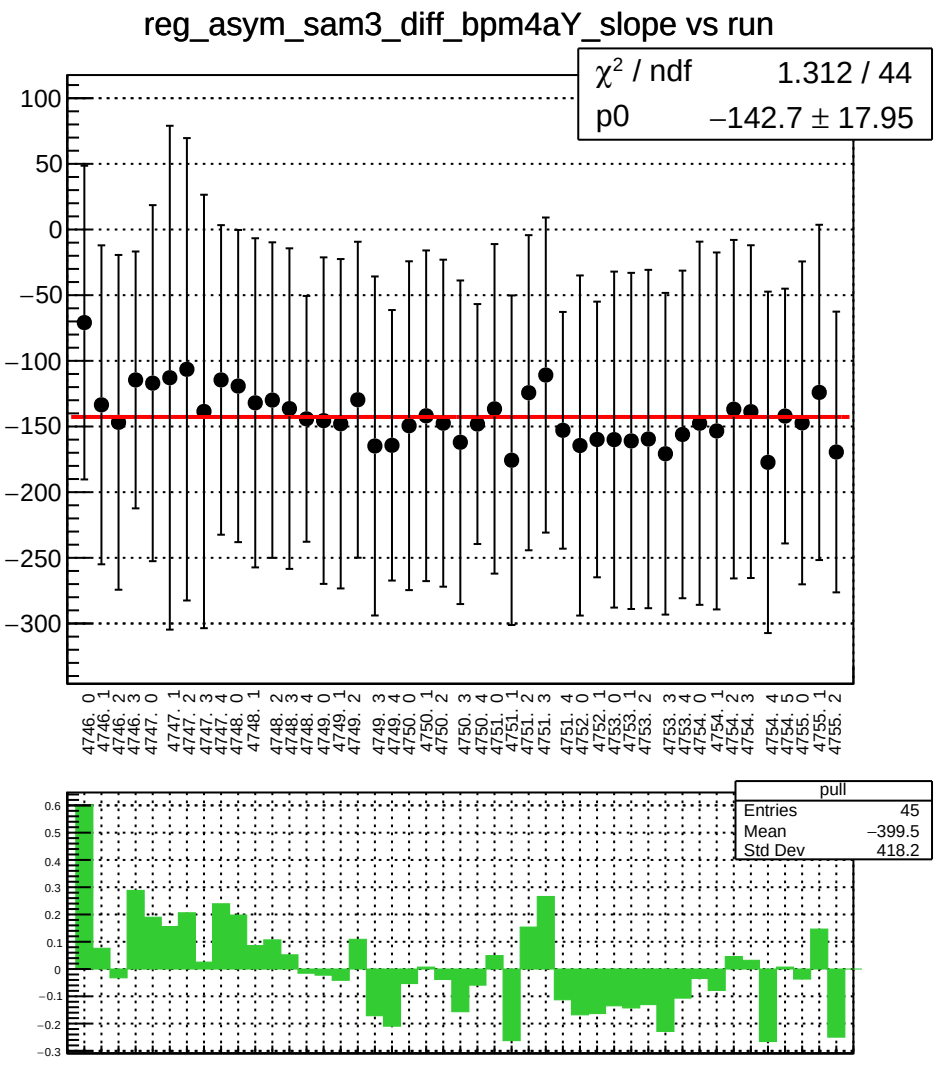

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 16.56 / 44
p0 −526.6 ± 1.762
−500
−510
−520
−530
−540
−550
−560
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −281.4
Std Dev 310.6
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.005012
Std Dev 0.6065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

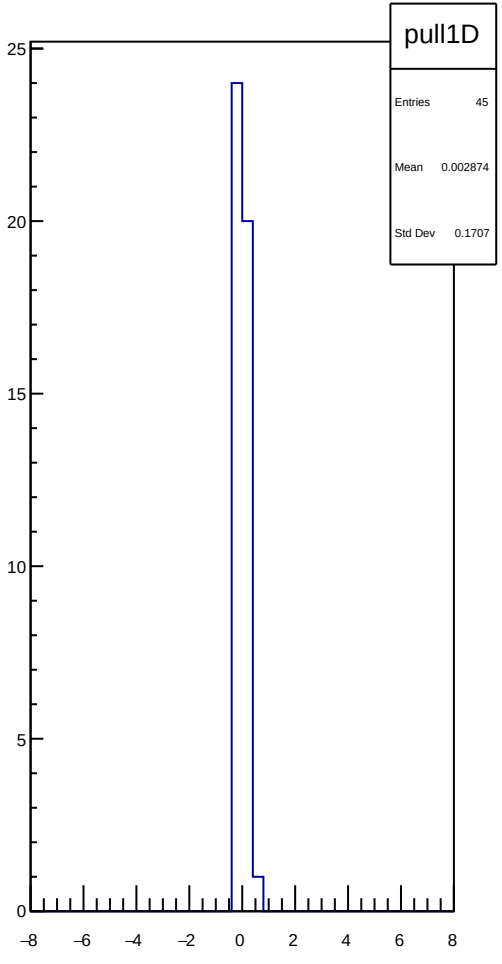

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 12.06 / 44
p0 450 ± 12.76
600
500
400
300
200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 51.87
Std Dev 8.831
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.01669
Std Dev 0.5174
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

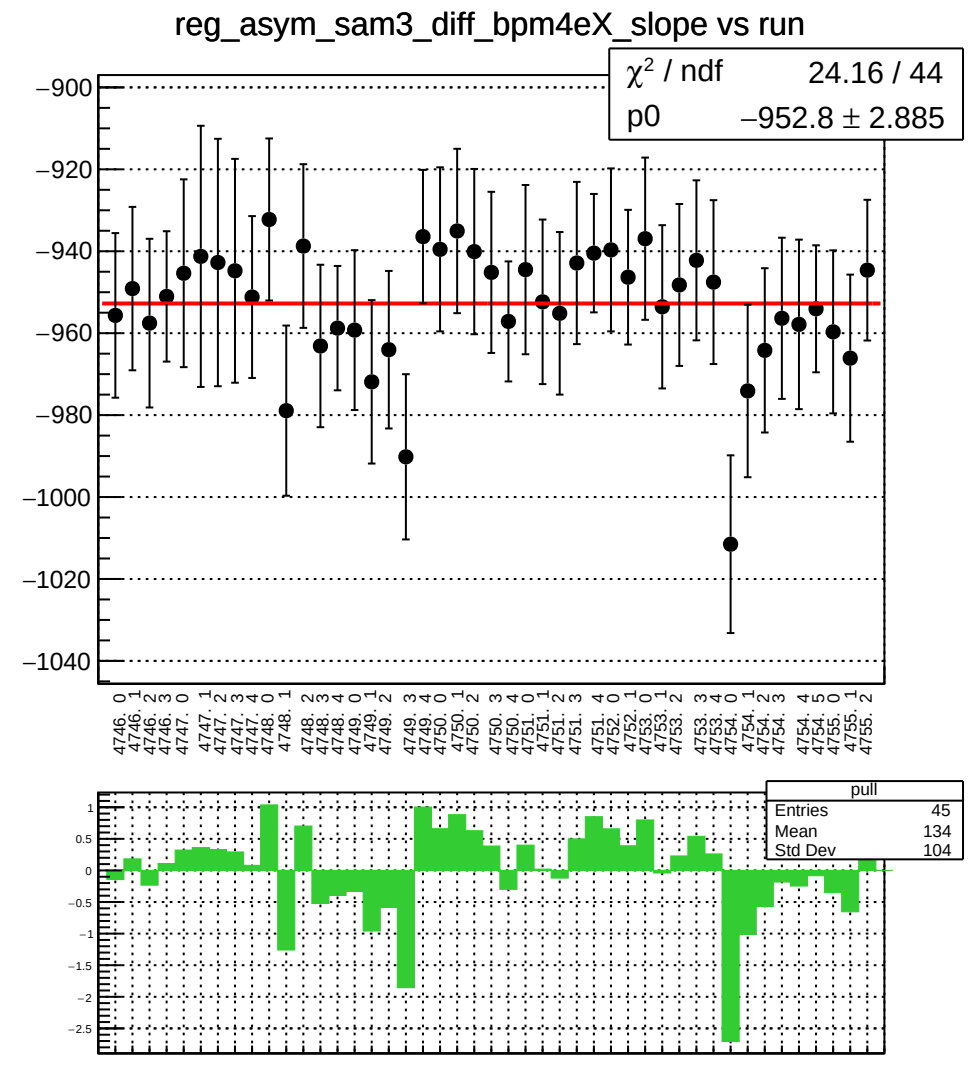

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 19.98 / 44
p0 −109.3 ± 2.726
pull
Entries 45
Mean 388.6
Std Dev 367.9
pull1D
Entries 45
Mean −0.009661
Std Dev 0.6662

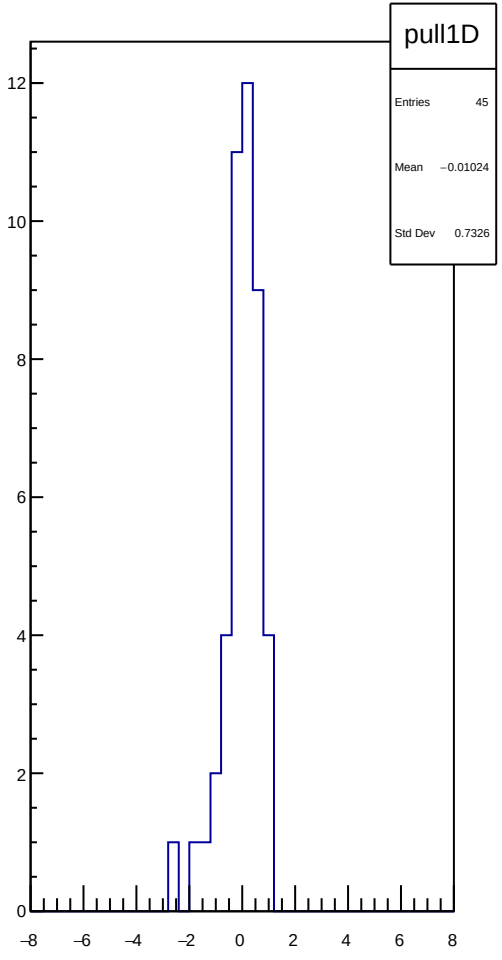

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 16.29 / 44
p0 392.6 ± 14.38
600
500
400
300
200
100
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −11.32
Std Dev 27.24
1.5
1
0.5
0
−0.5
−1

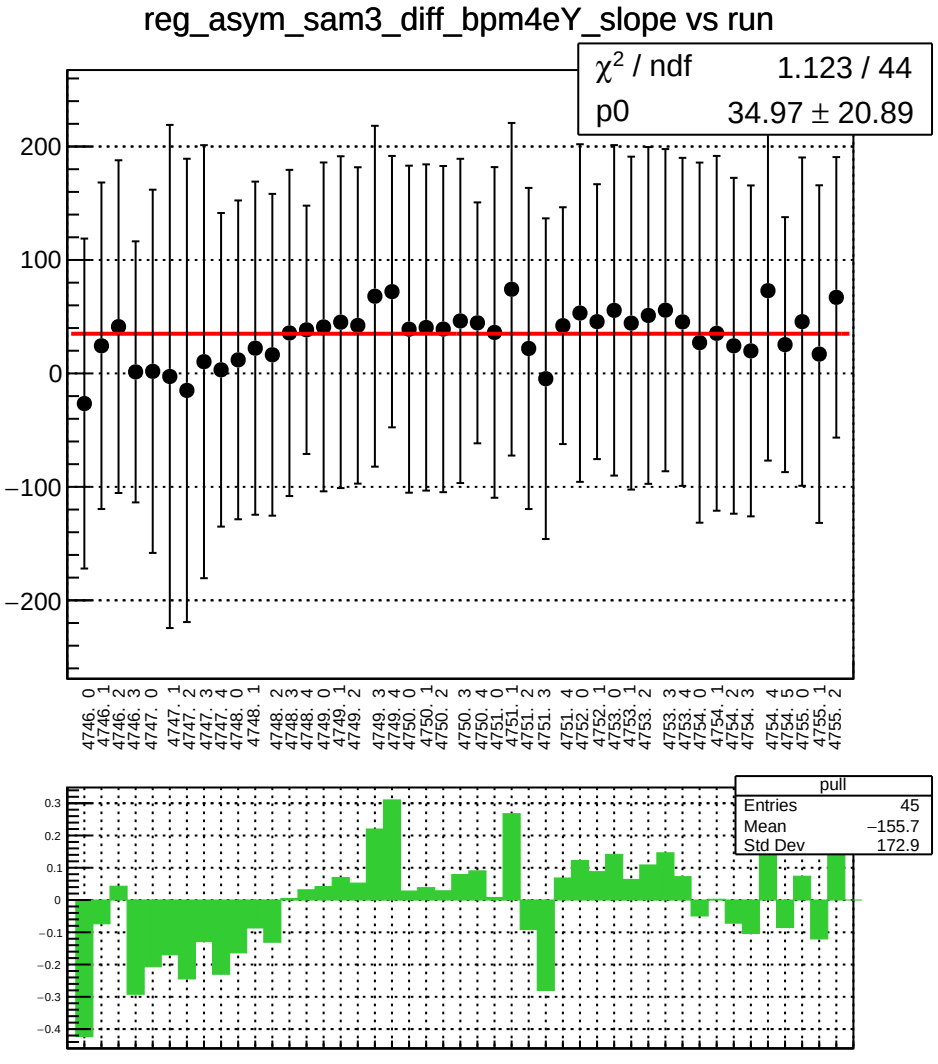

pull1D
Entries 45
Mean −0.03811
Std Dev 0.6005
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

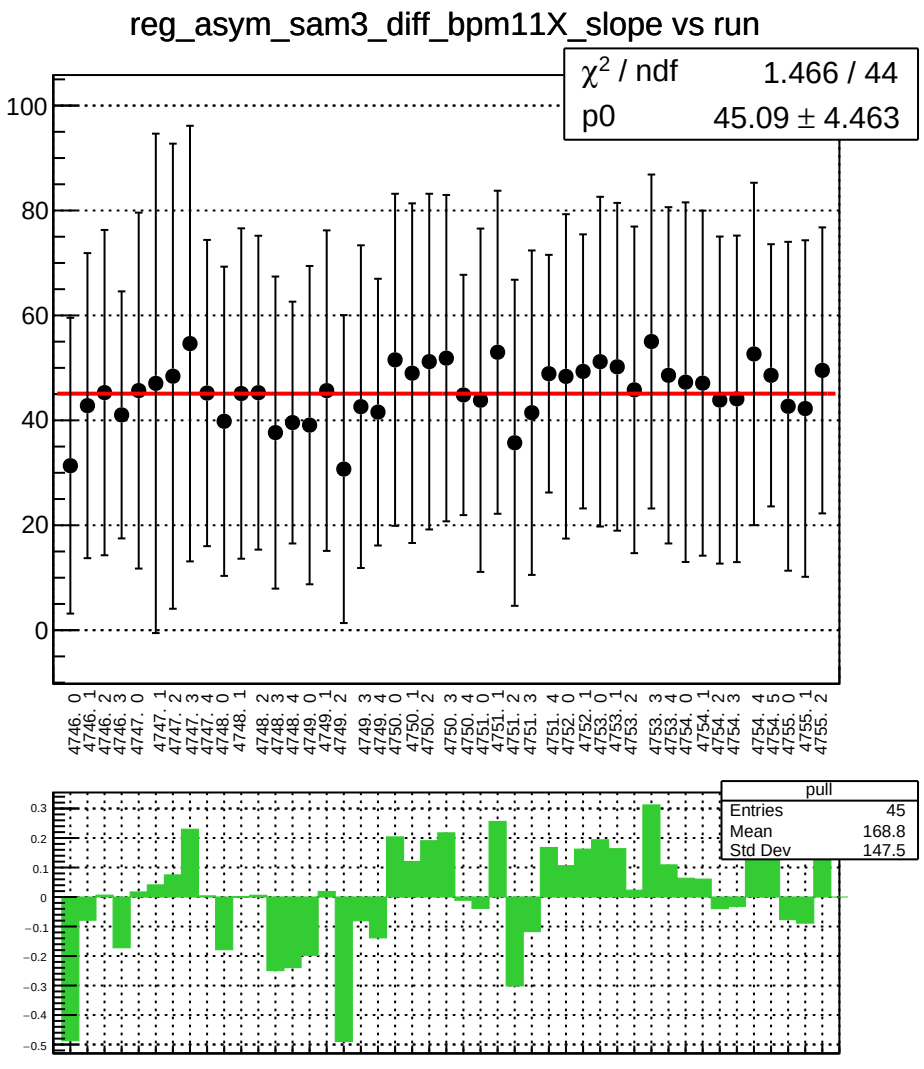

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 1.312 / 44
p0 −142.7 ± 17.95
pull
Entries 45
Mean −399.5
Std Dev 418.2

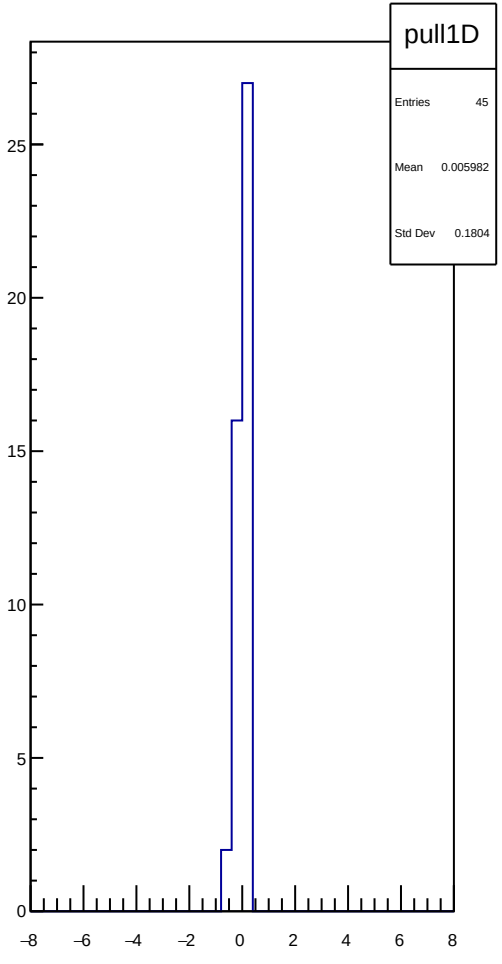

pull1D
Entries 45
Mean 0.002874
Std Dev 0.1707

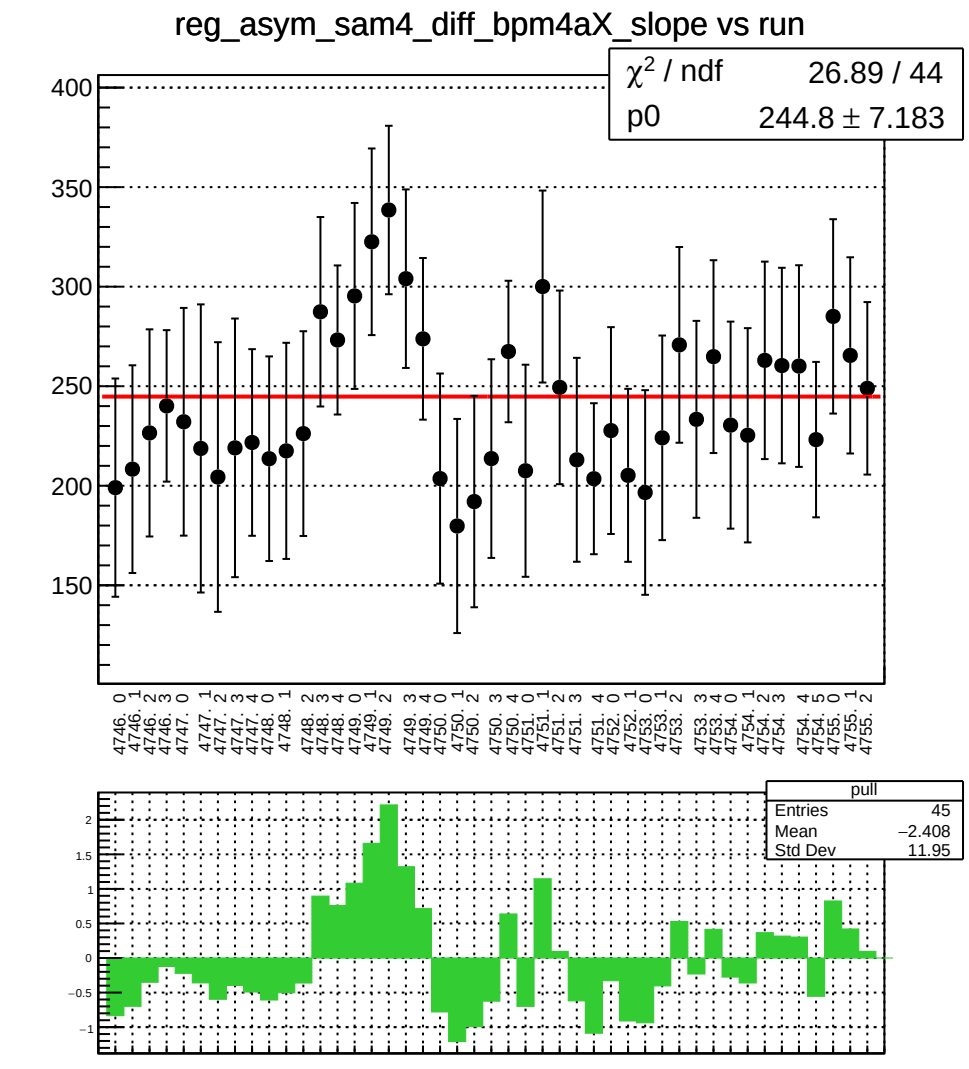

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 24.16 / 44
p0 −952.8 ± 2.885
pull
Entries 45
Mean 134
Std Dev 104

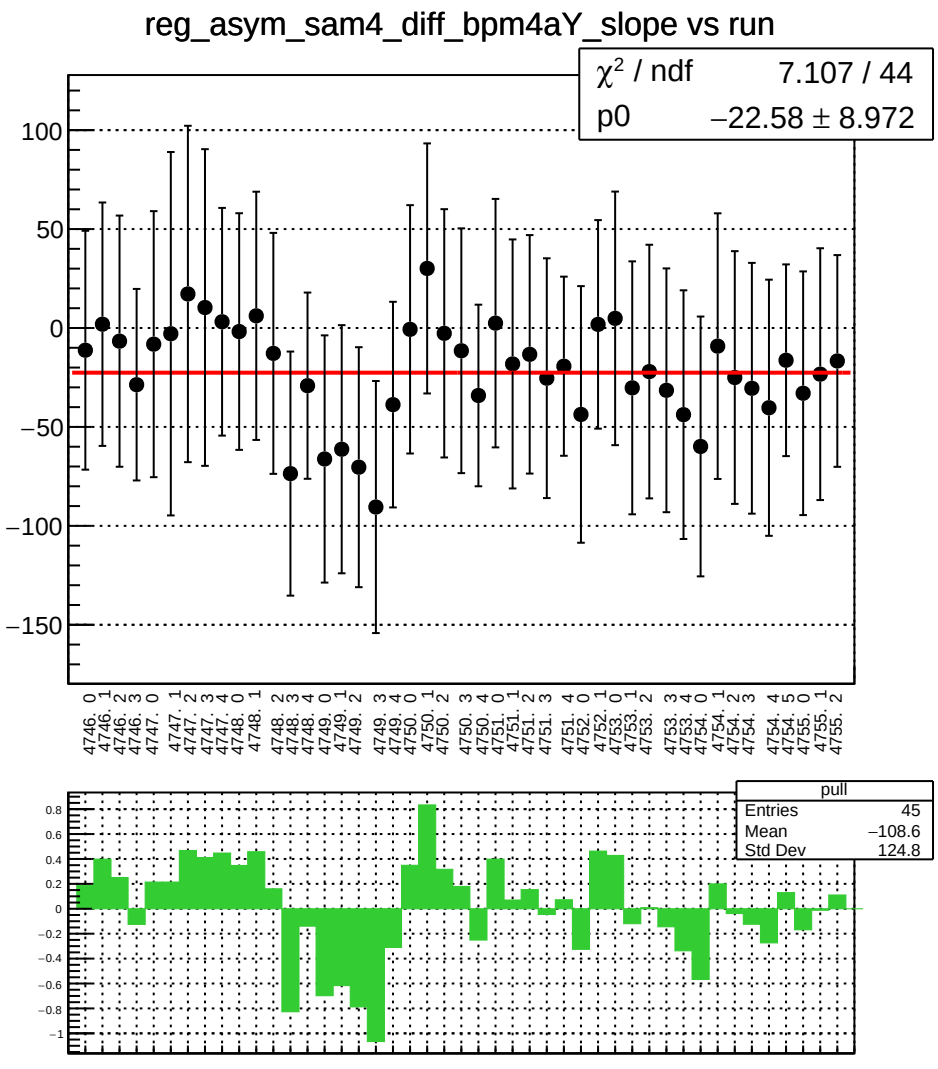

pull1D
Entries 45
Mean −0.01024
Std Dev 0.7326

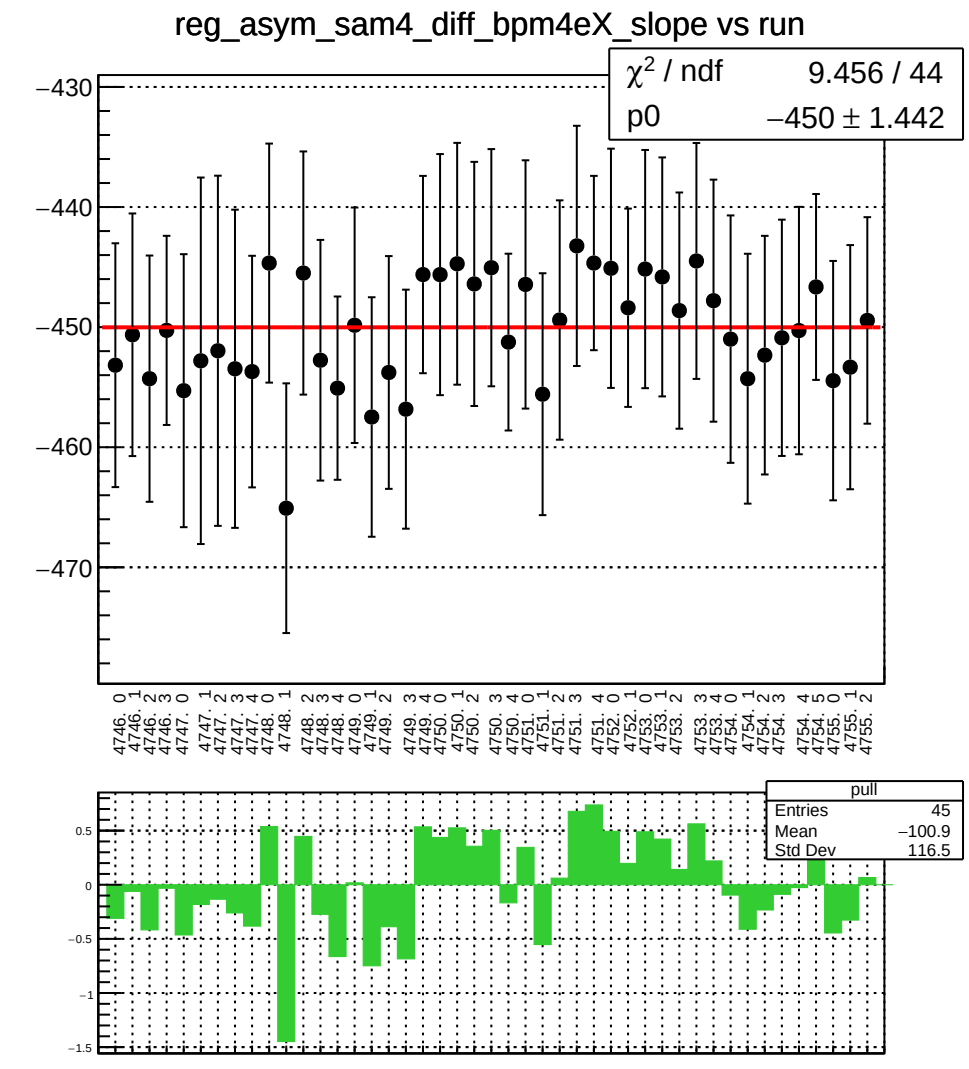

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 1.123 / 44
p0 34.97 ± 20.89
200
100
0
−100
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −155.7
Std Dev 172.9
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 45
Mean −0.005335
Std Dev 0.1579
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

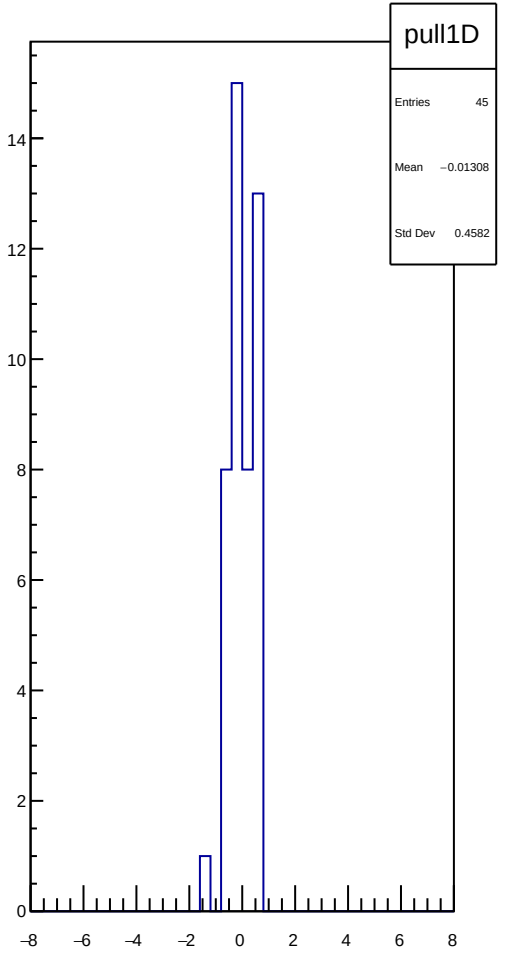

reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 1.466 / 44
p0 45.09 ± 4.463
pull
Entries 45
Mean 168.8
Std Dev 147.5

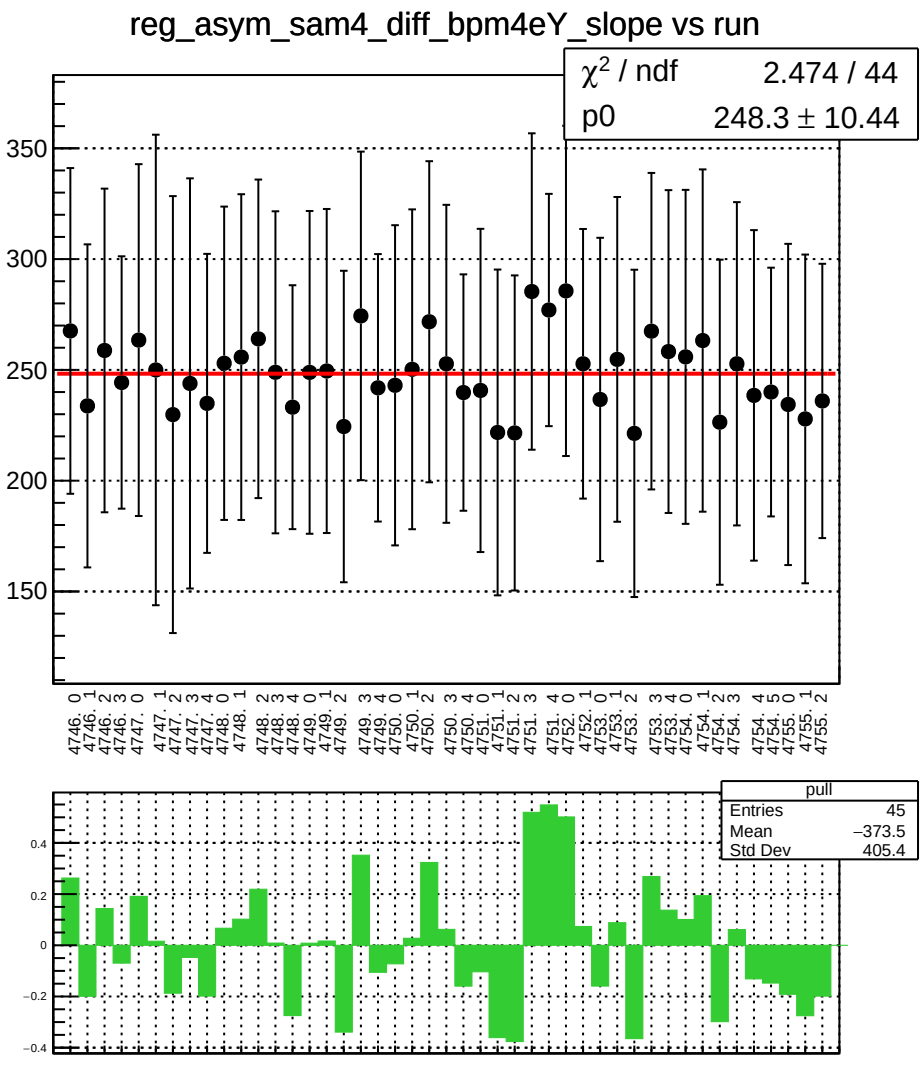

pull1D
Entries 45
Mean 0.005982
Std Dev 0.1804

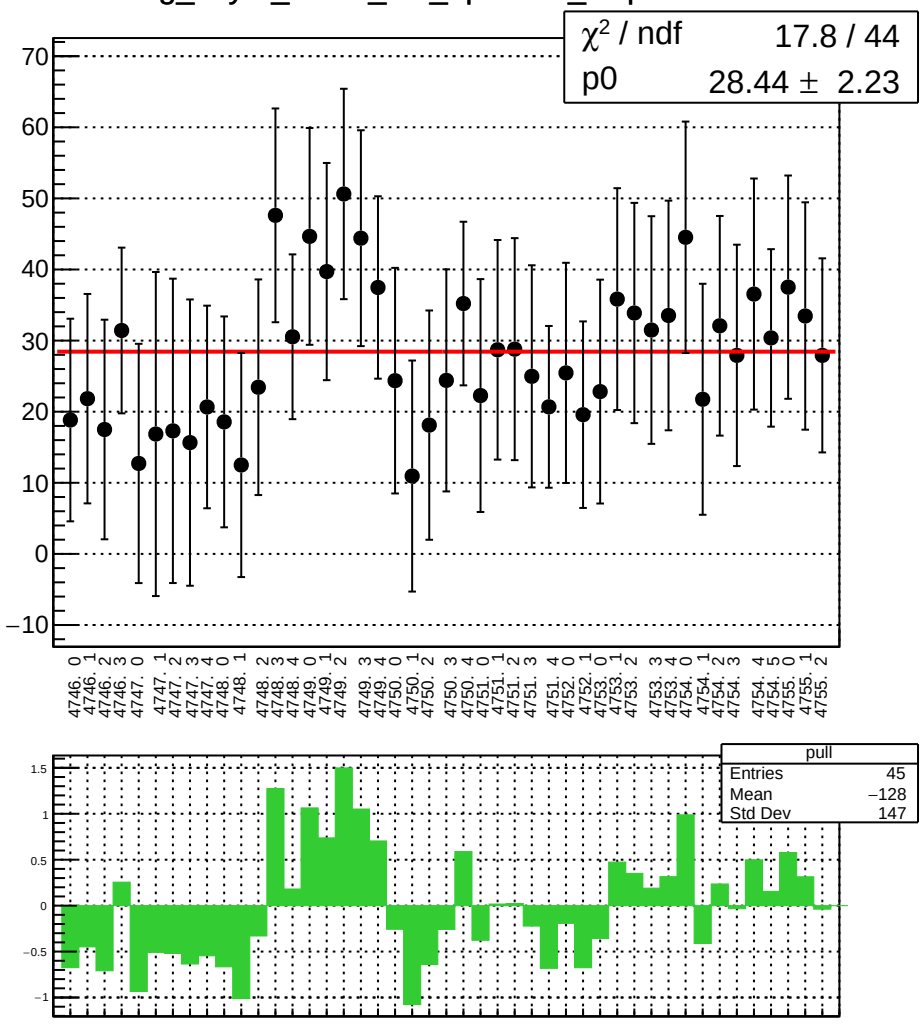

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 26.89 / 44
p0 244.8 ± 7.183
400
350
300
250
200
150
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −2.408
Std Dev 11.95
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.03911
Std Dev 0.7721
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

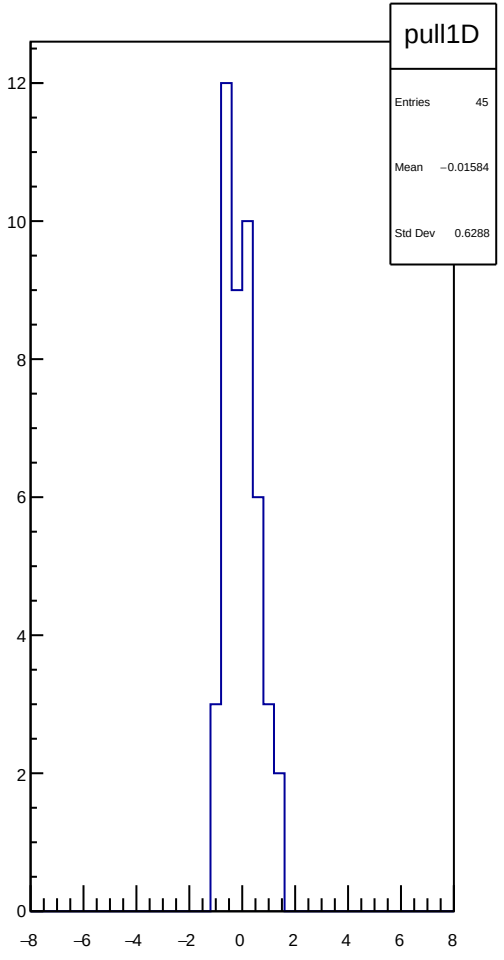

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 7.107 / 44
p0 −22.58 ± 8.972
100
50
0
−50
−100
−150
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −108.6
Std Dev 124.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean 0.006503
Std Dev 0.3974
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

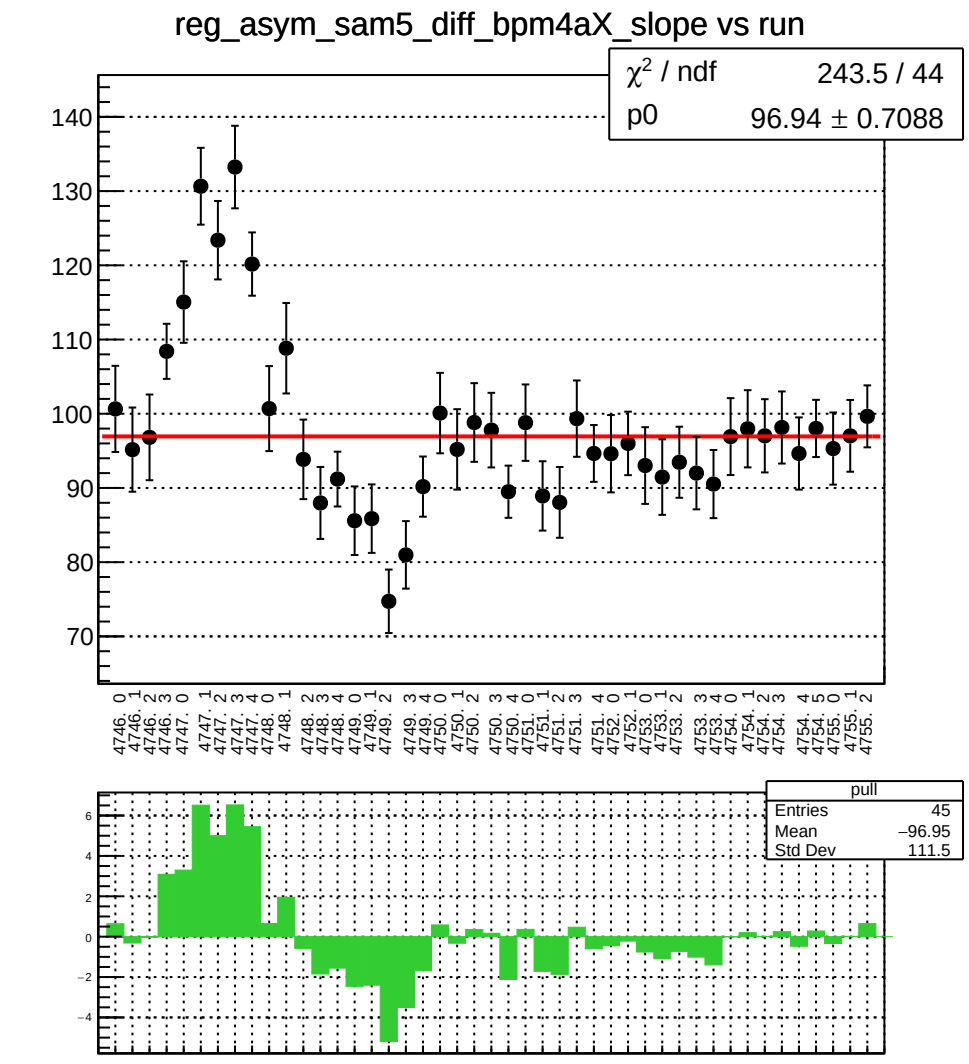

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 9.456 / 44
p0 −450 ± 1.442
−430
−440
−450
−460
−470
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −100.9
Std Dev 116.5
0.5
0
−0.5
−1
−1.5

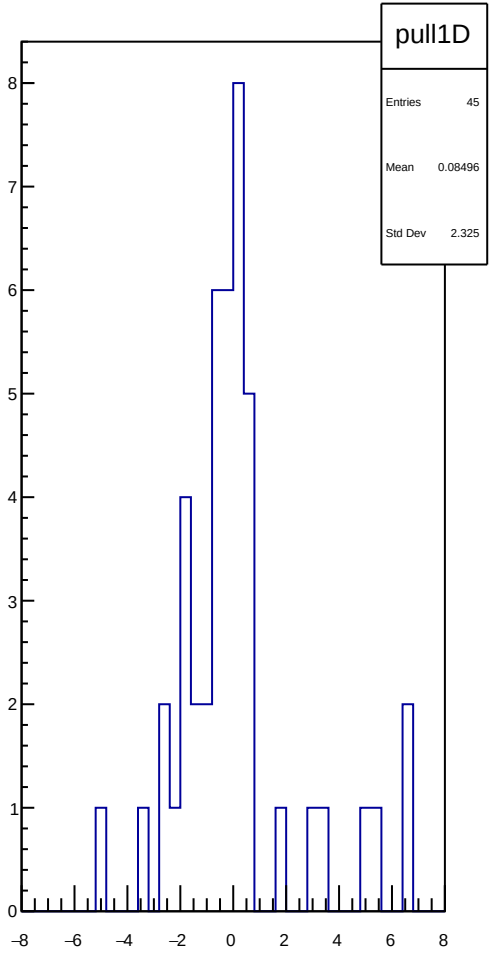

pull1D
Entries 45
Mean −0.01308
Std Dev 0.4582
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

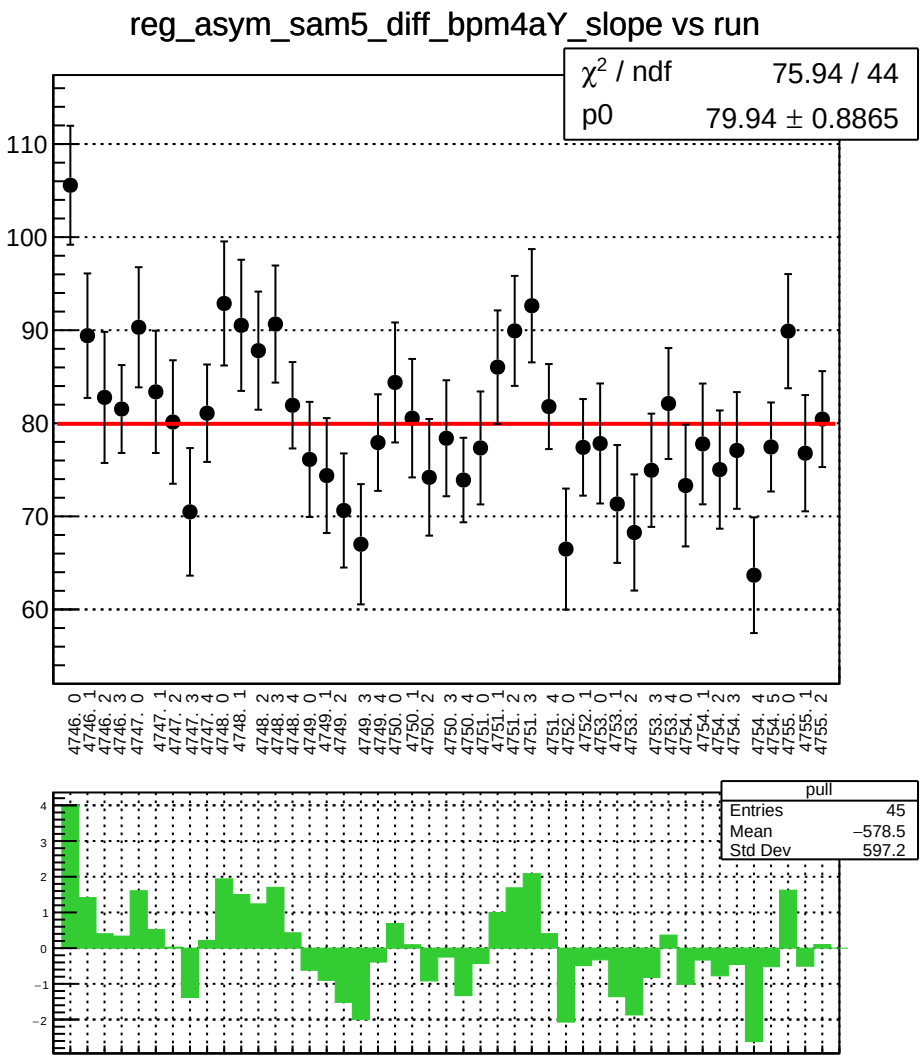

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 2.474 / 44
p0 248.3 ± 10.44
350
300
250
200
150
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −373.5
Std Dev 405.4
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 45
Mean 0.000741
Std Dev 0.2345
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

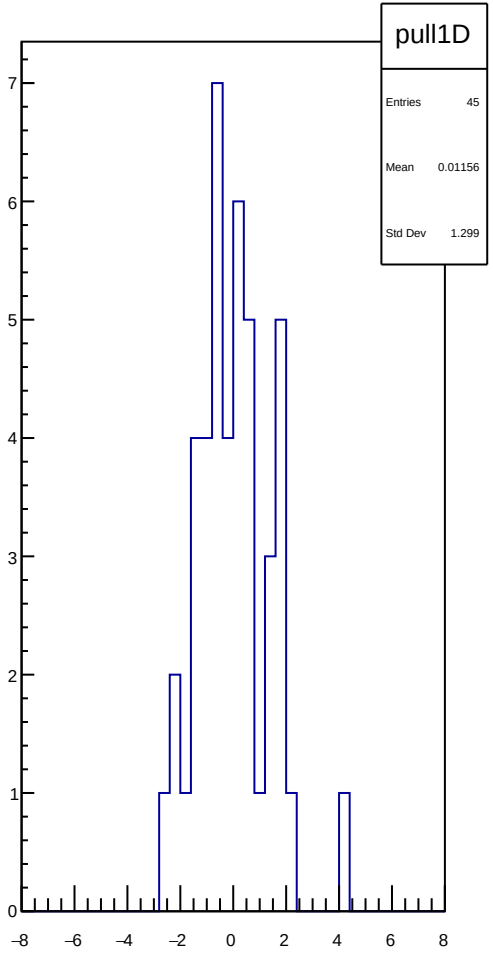

reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 17.8 / 44
p0 28.44 ± 2.23
pull
Entries 45
Mean −128
Std Dev 147

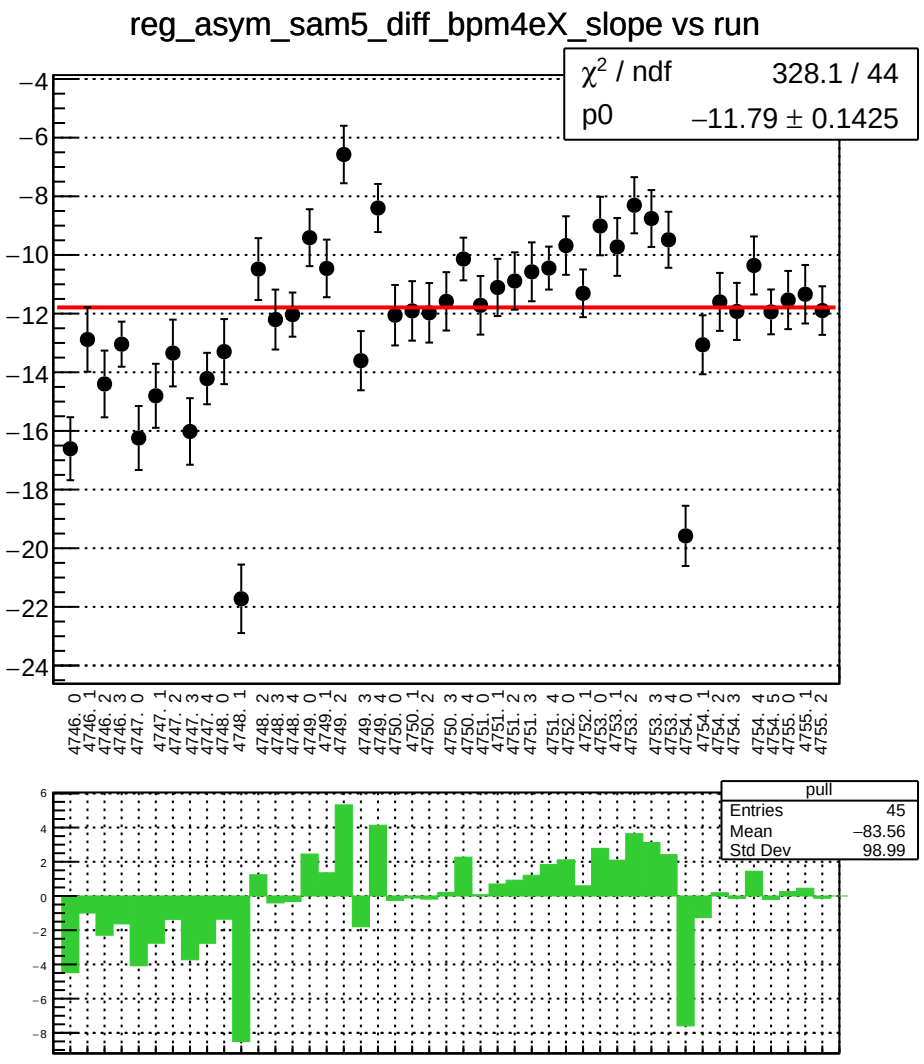

pull1D
Entries 45
Mean −0.01584
Std Dev 0.6288

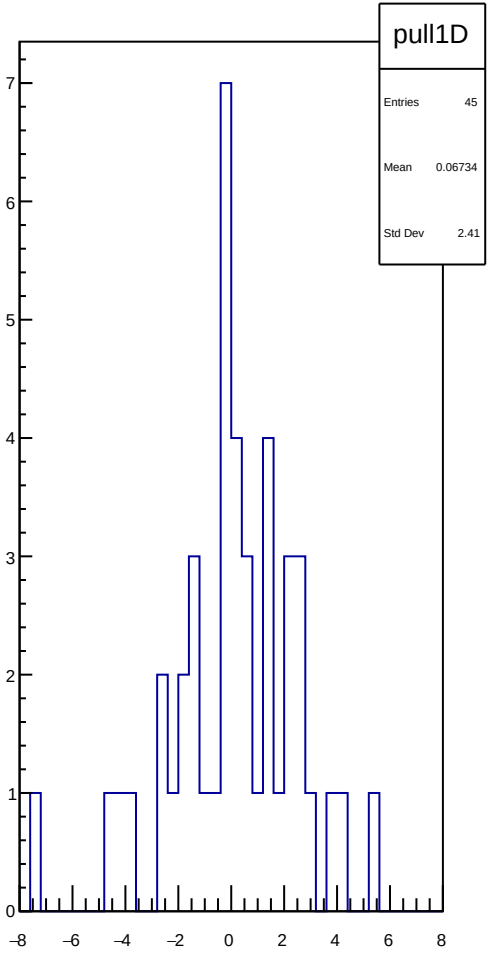

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 243.5 / 44
p0 96.94 ± 0.7088
pull
Entries 45
Mean −96.95
Std Dev 111.5

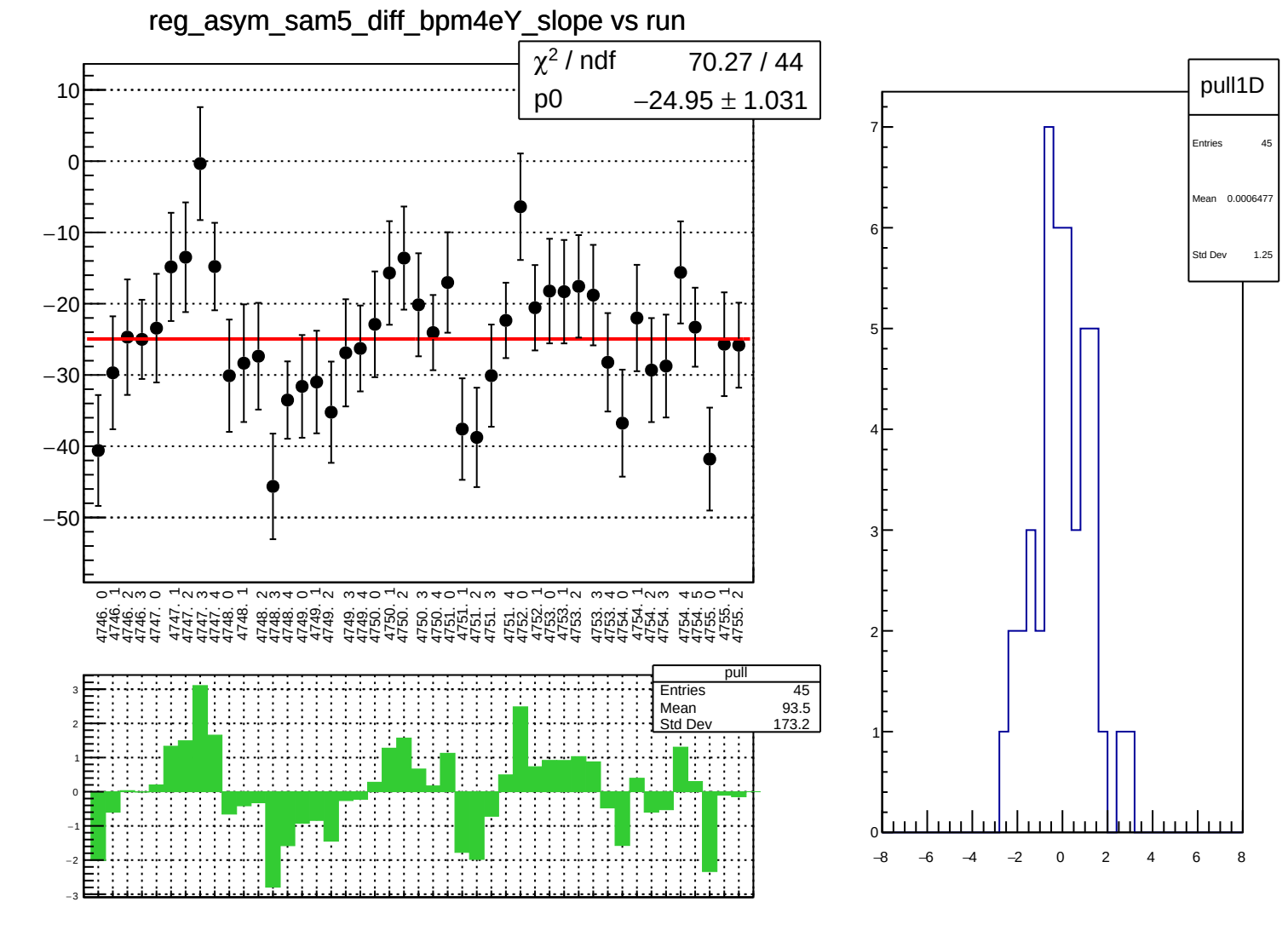

pull1D
Entries 45
Mean 0.08496
Std Dev 2.325

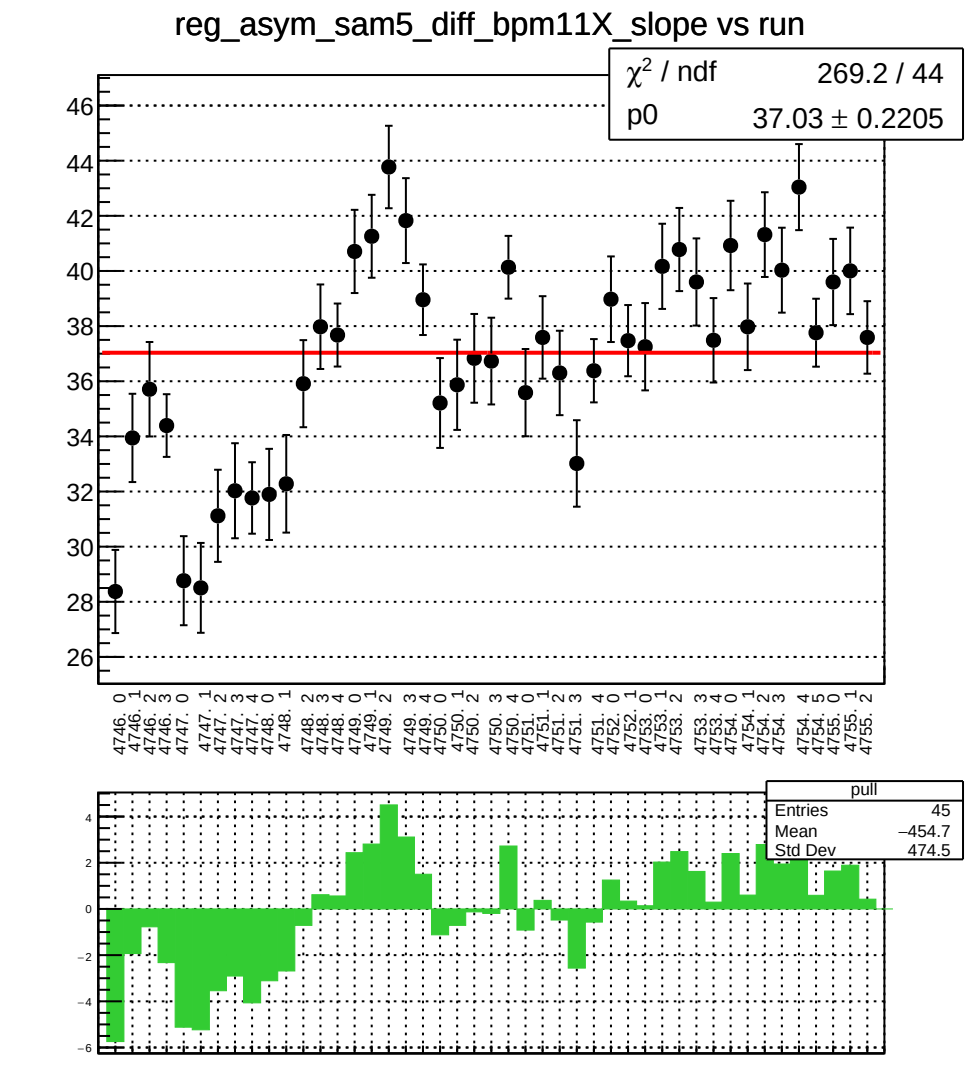

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 75.94 / 44
p0 79.94 ± 0.8865
110
100
90
80
70
60
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −578.5
Std Dev 597.2
4
3
2
1
0
−1
−2

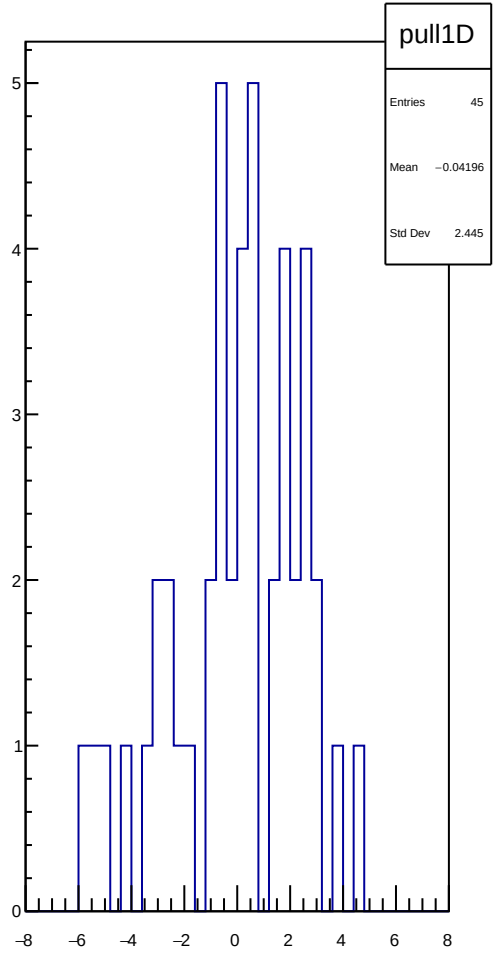

pull1D
Entries 45
Mean 0.01156
Std Dev 1.299
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

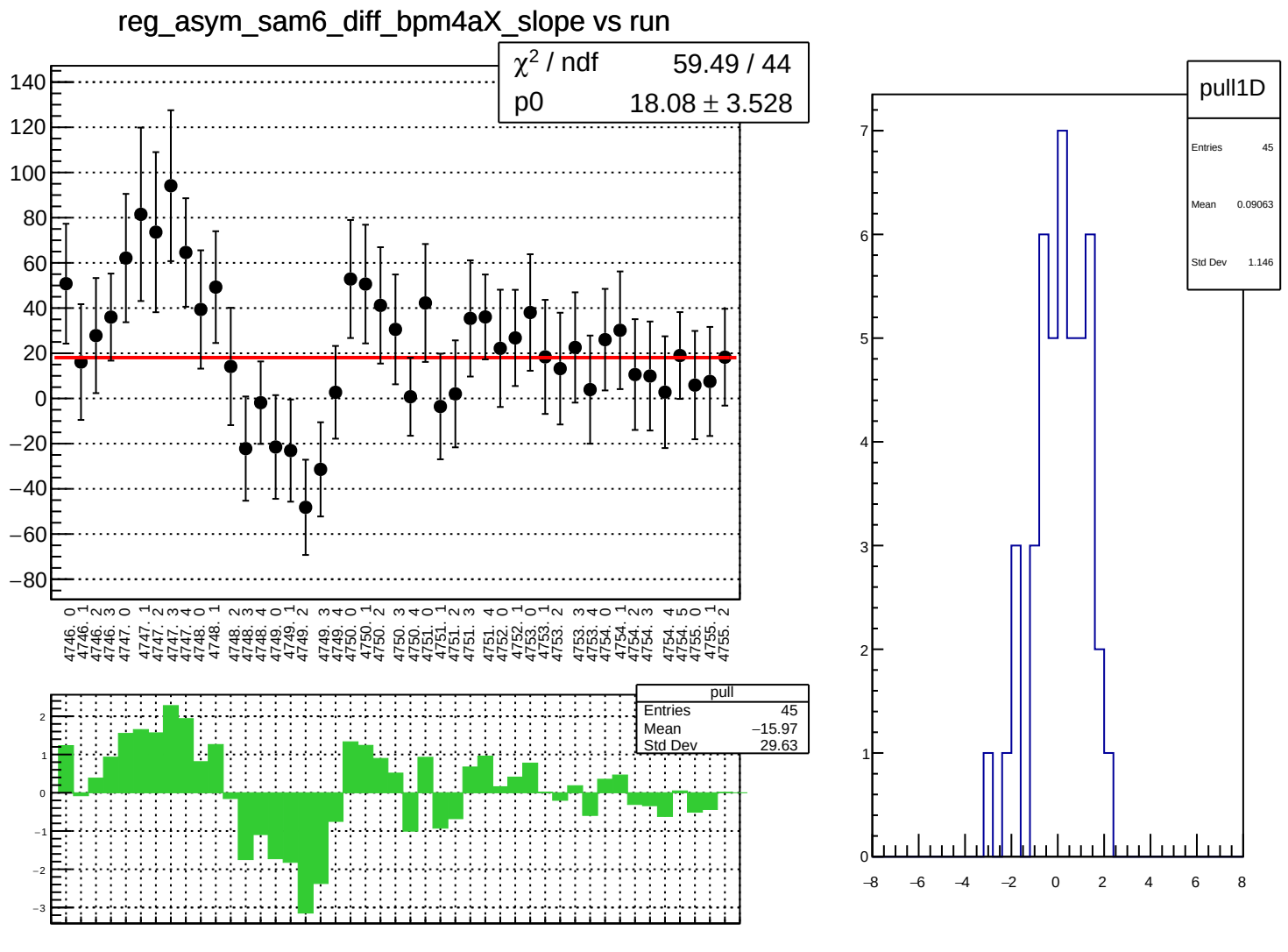

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 328.1 / 44
p0 −11.79 ± 0.1425
pull
Entries 45
Mean −83.56
Std Dev 98.99

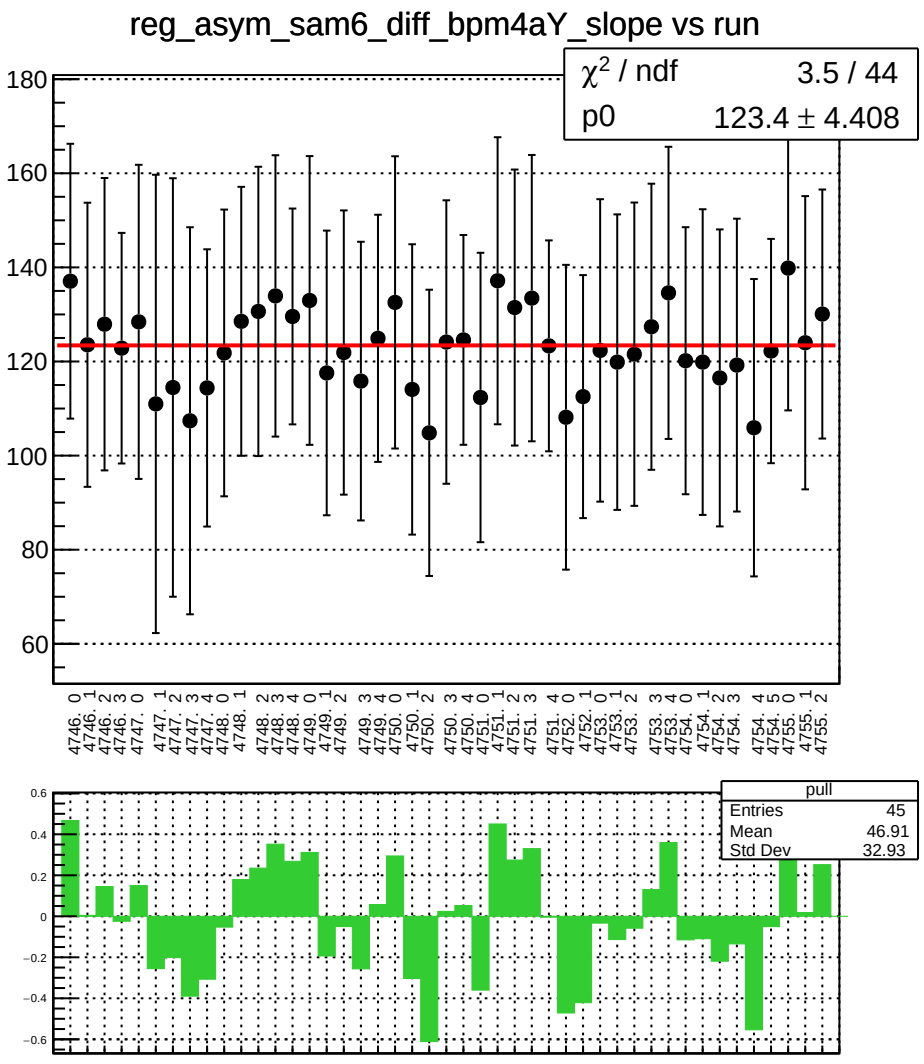

pull1D
Entries 45
Mean 0.06734
Std Dev 2.41

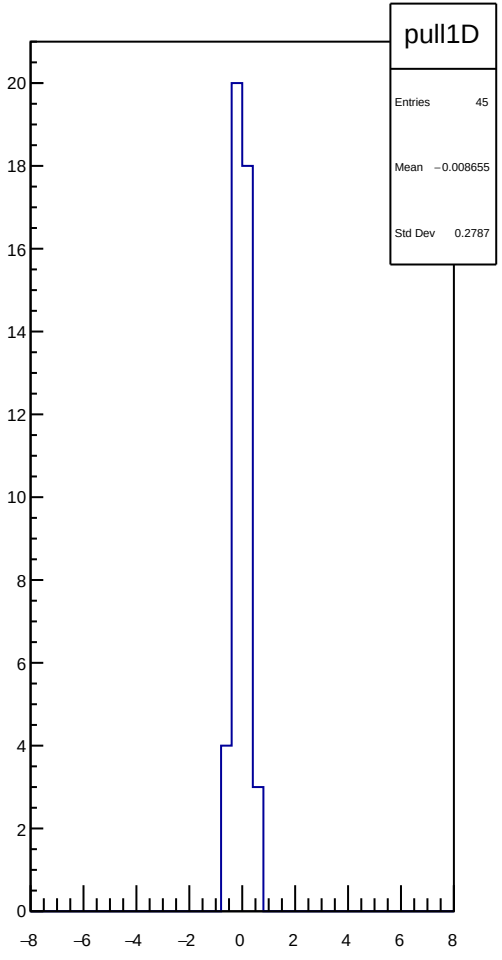

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 70.27 / 44
p0 −24.95 ± 1.031
pull
Entries 45
Mean 93.5
Std Dev 173.2
pull1D
Entries 45
Mean 0.0006477
Std Dev 1.25

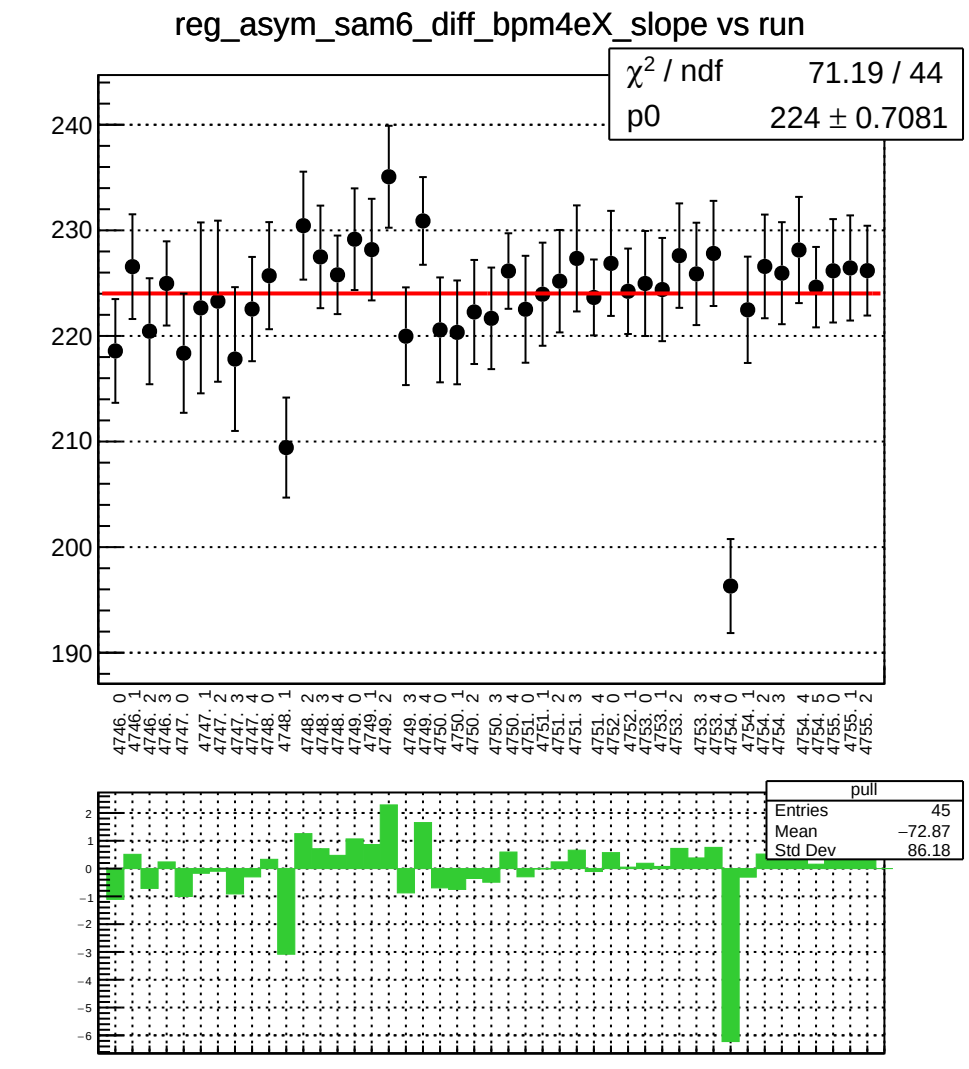

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 269.2 / 44
p0 37.03 ± 0.2205
pull
Entries 45
Mean −454.7
Std Dev 474.5

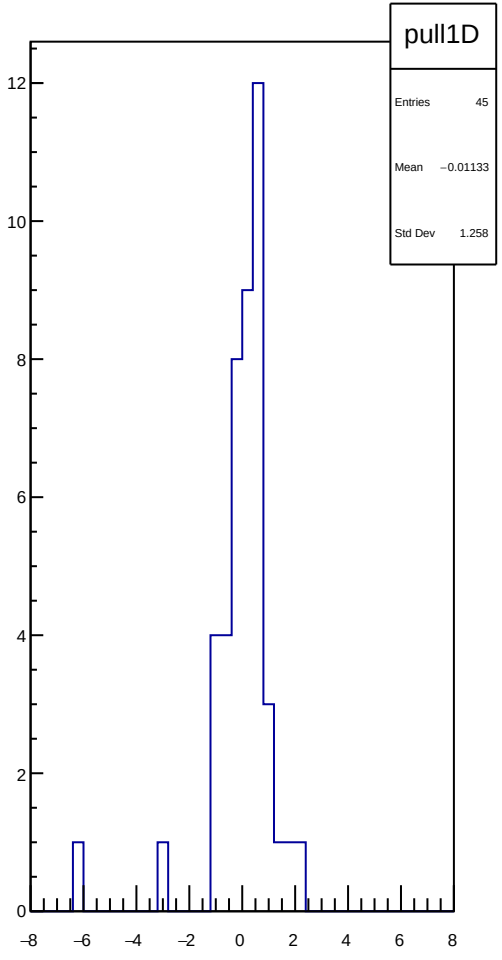

pull1D
Entries 45
Mean −0.04196
Std Dev 2.445

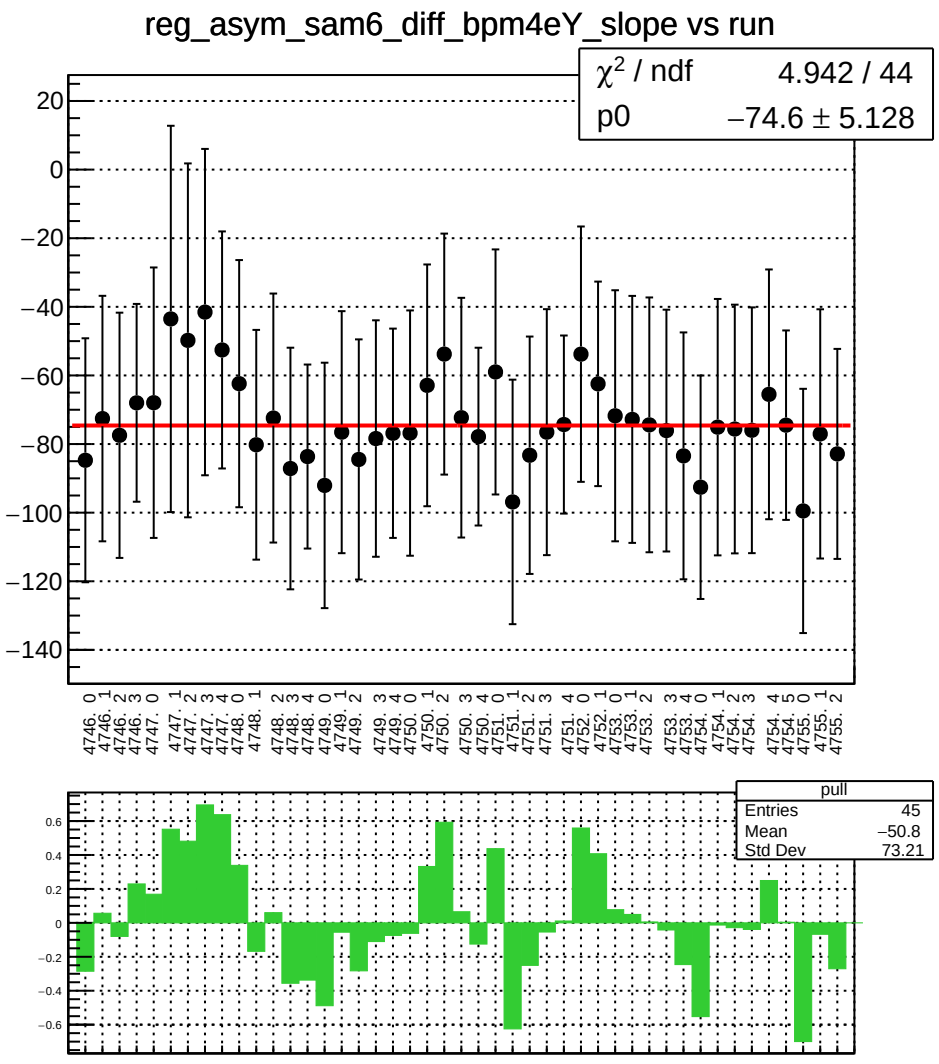

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 59.49 / 44
p0 18.08 ± 3.528
pull
Entries 45
Mean −15.97
Std Dev 29.63
pull1D
Entries 45
Mean 0.09063
Std Dev 1.146

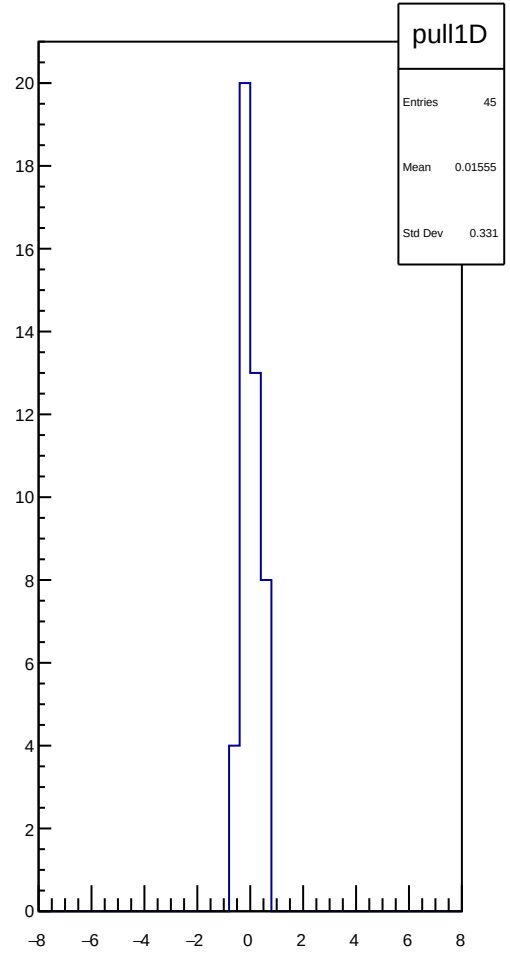

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 3.5 / 44
p0 123.4 ± 4.408
pull
Entries 45
Mean 46.91
Std Dev 32.93

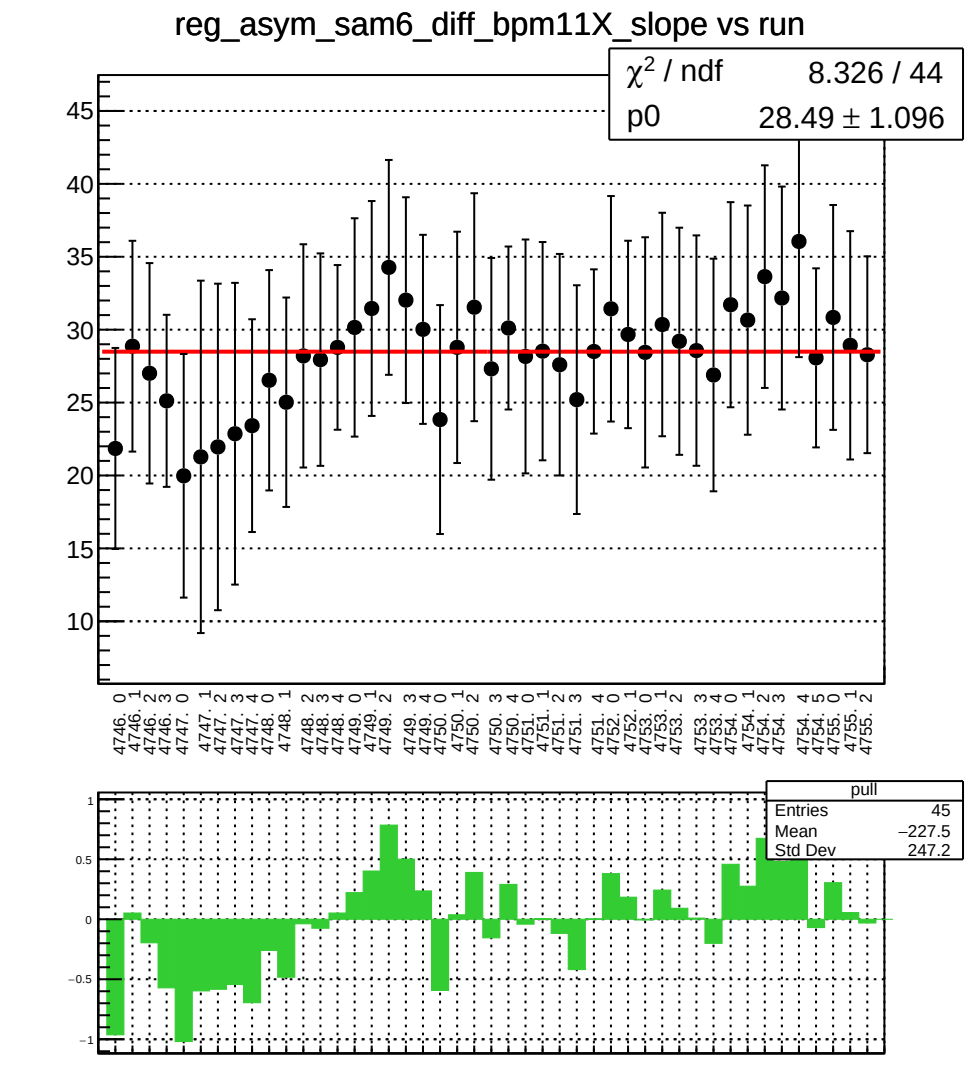

pull1D
Entries 45
Mean −0.008655
Std Dev 0.2787

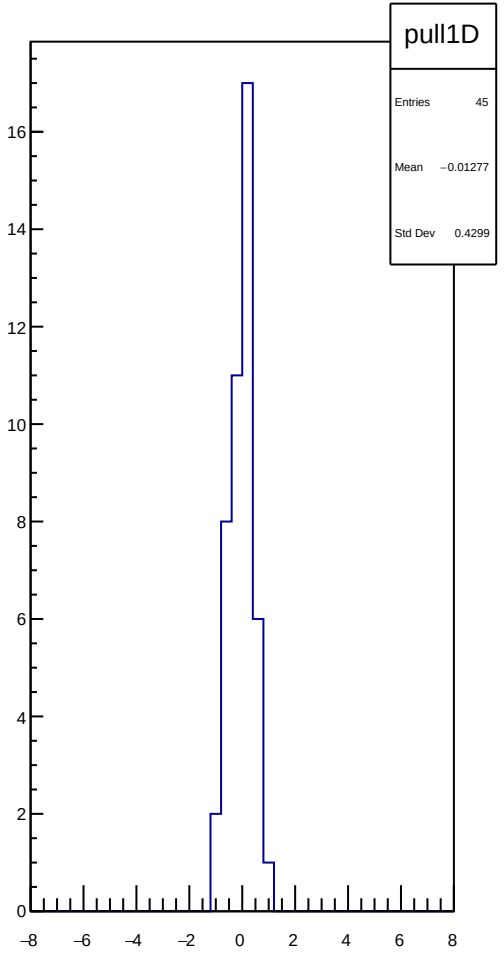

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 71.19 / 44
p0 224 ± 0.7081
240
230
220
210
200
190
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −72.87
Std Dev 86.18
2
1
0
−1
−2
−3
−4
−5
−6

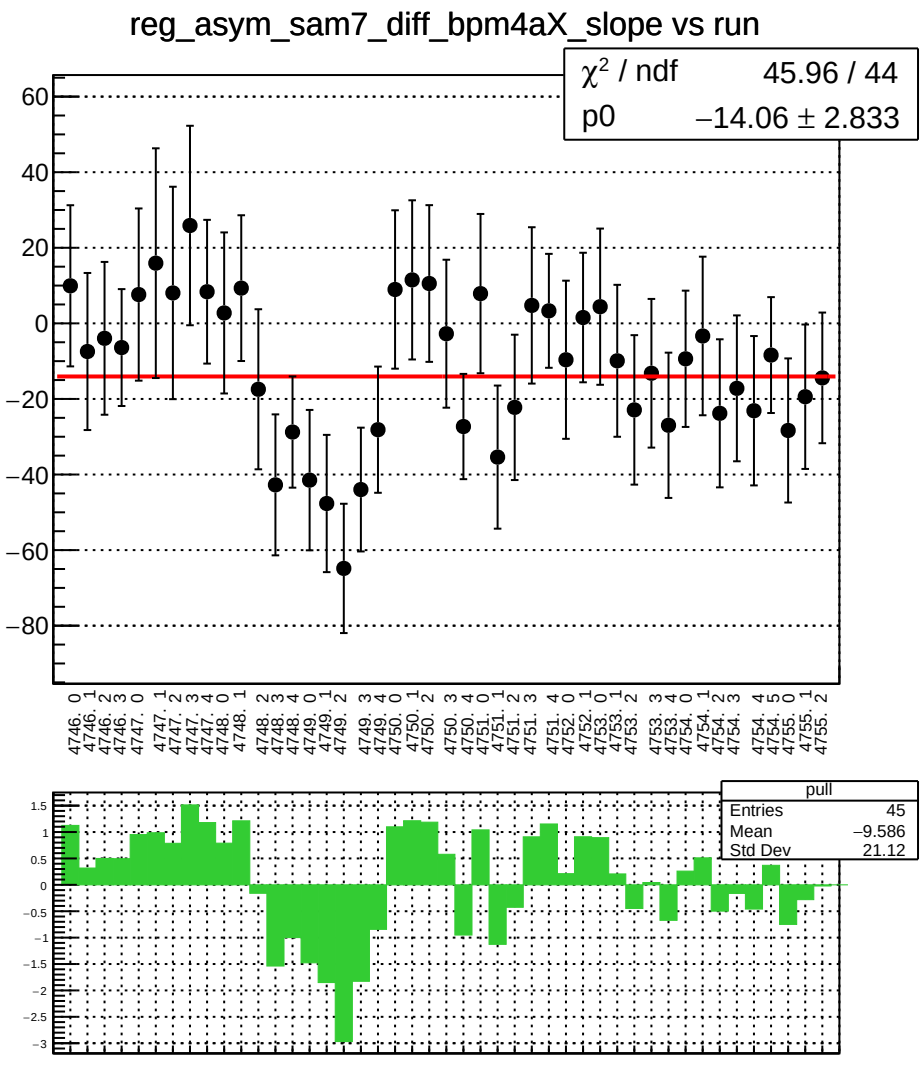

pull1D
Entries 45
Mean −0.01133
Std Dev 1.258
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

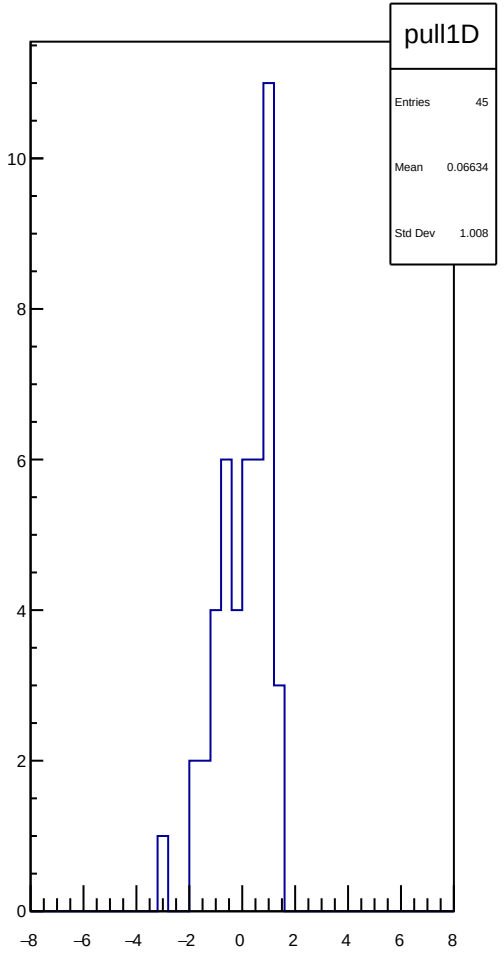

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 4.942 / 44
p0 −74.6 ± 5.128
pull
Entries 45
Mean −50.8
Std Dev 73.21

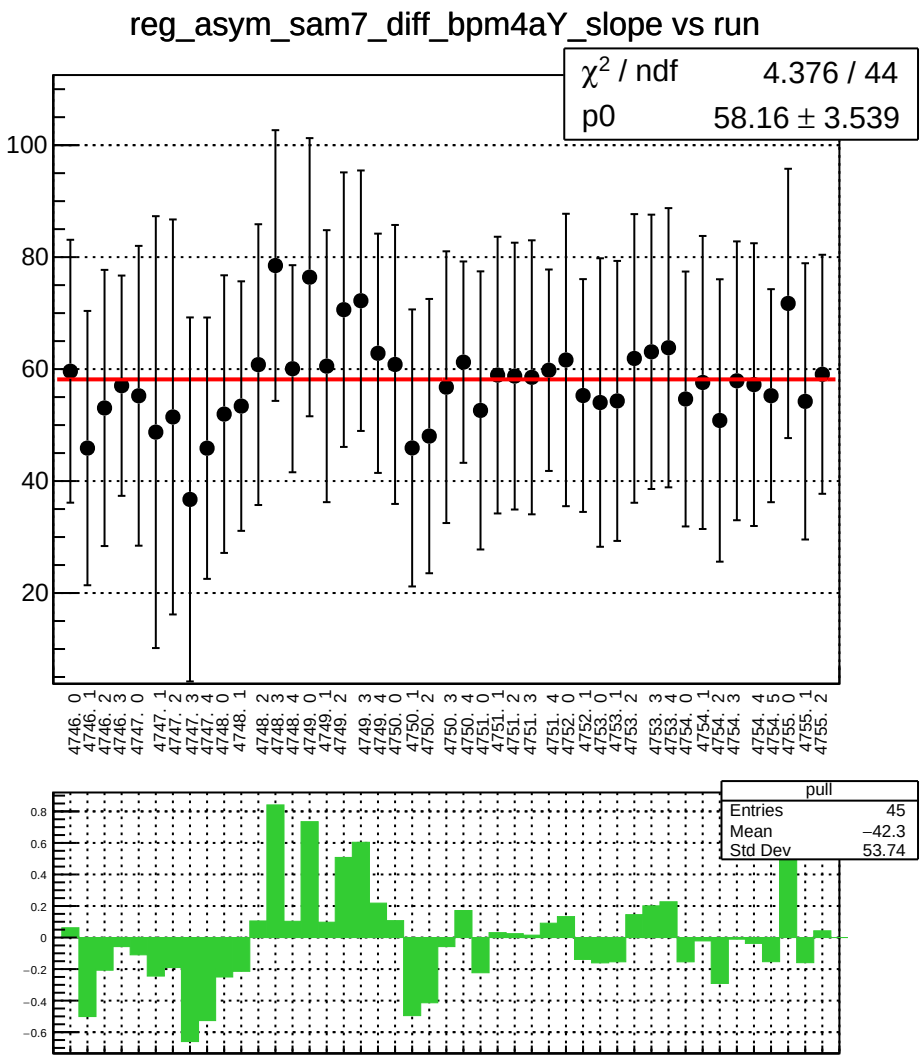

pull1D
Entries 45
Mean 0.01555
Std Dev 0.331

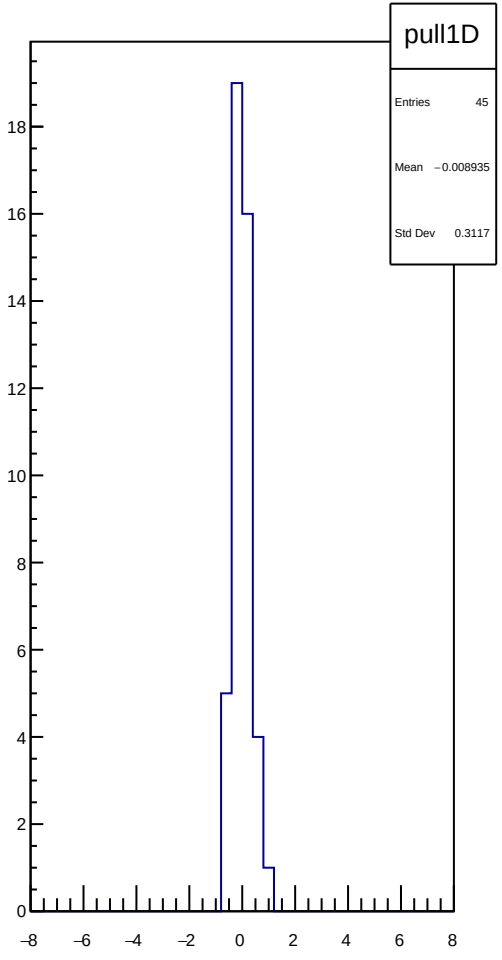

reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 8.326 / 44
p0 28.49 ± 1.096
pull
Entries 45
Mean −227.5
Std Dev 247.2

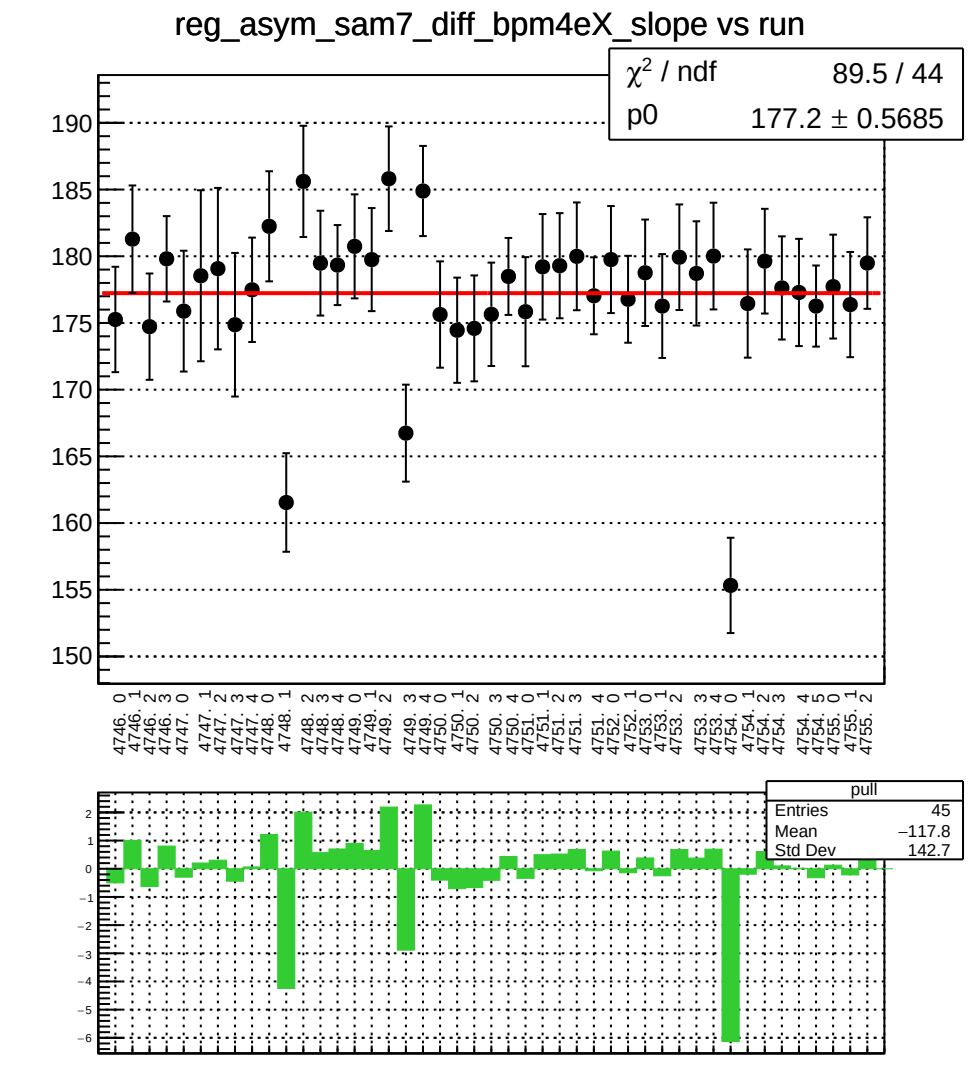

pull1D
Entries 45
Mean −0.01277
Std Dev 0.4299

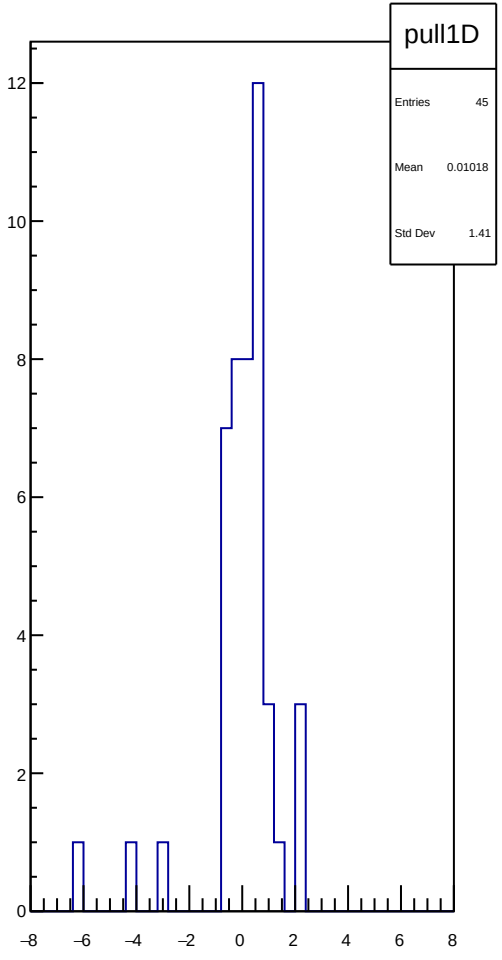

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 45.96 / 44
p0 −14.06 ± 2.833
pull
Entries 45
Mean −9.586
Std Dev 21.12

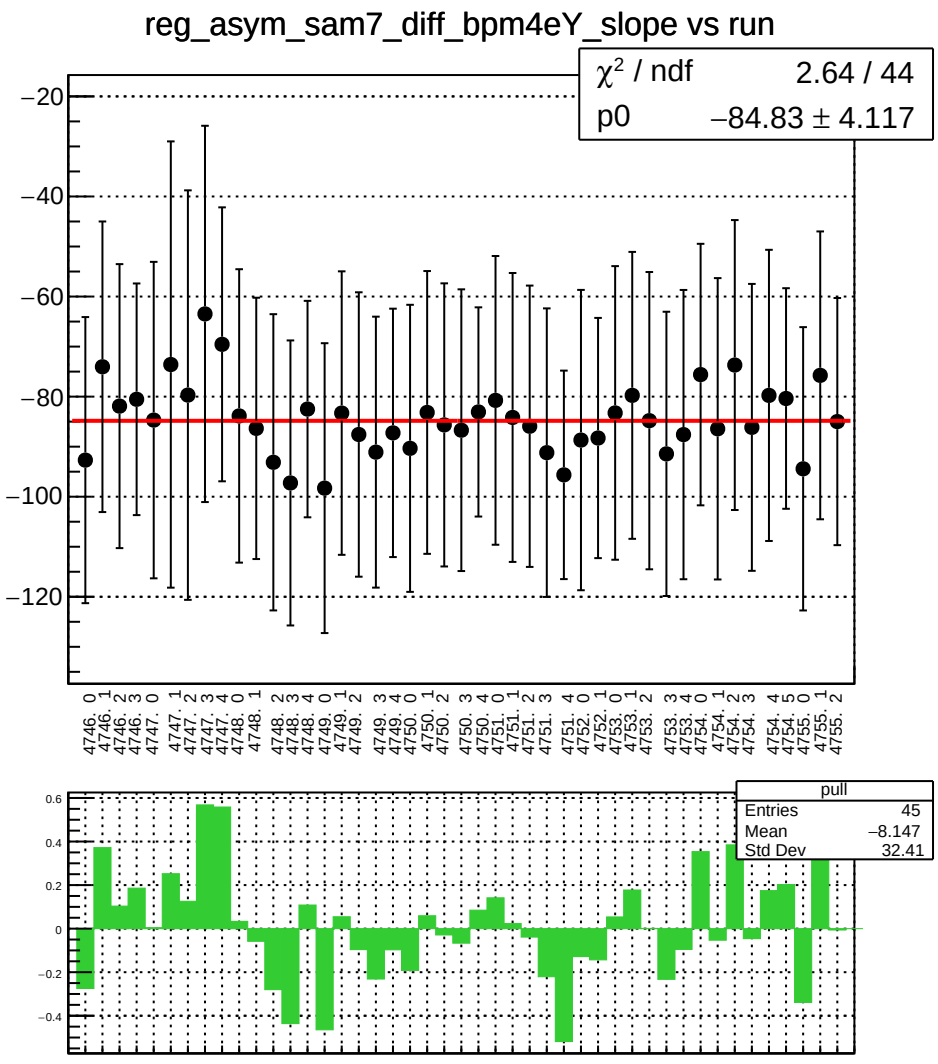

pull1D
Entries 45
Mean 0.06634
Std Dev 1.008

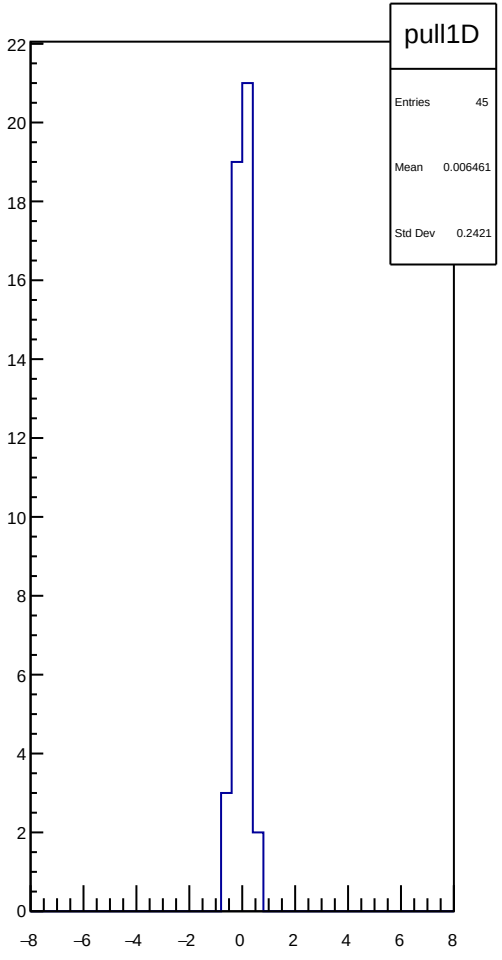

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 4.376 / 44
p0 58.16 ± 3.539
pull
Entries 45
Mean −42.3
Std Dev 53.74

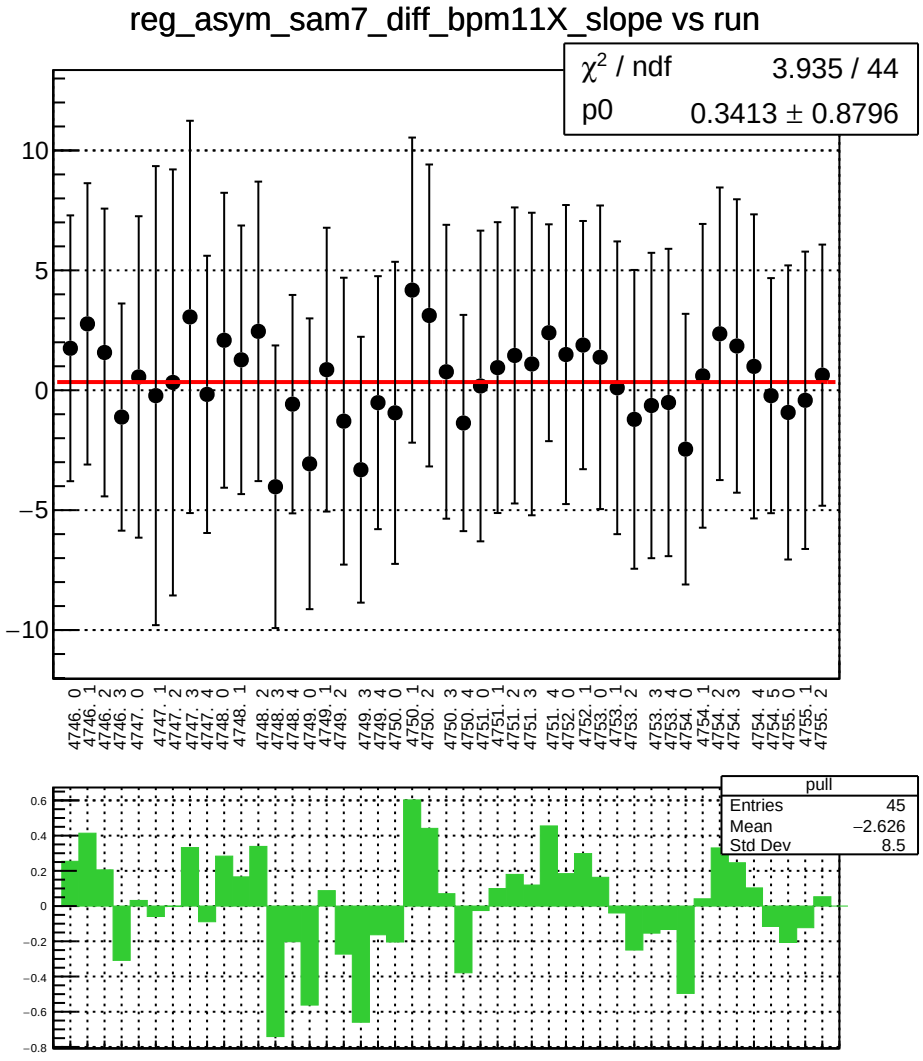

pull1D
Entries 45
Mean −0.008935
Std Dev 0.3117

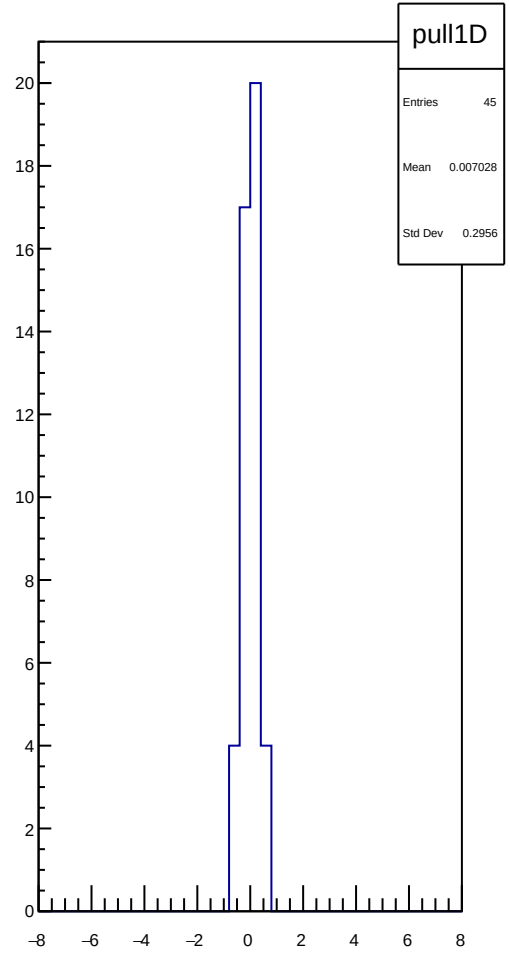

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 89.5 / 44
p0 177.2 ± 0.5685
pull
Entries 45
Mean −117.8
Std Dev 142.7

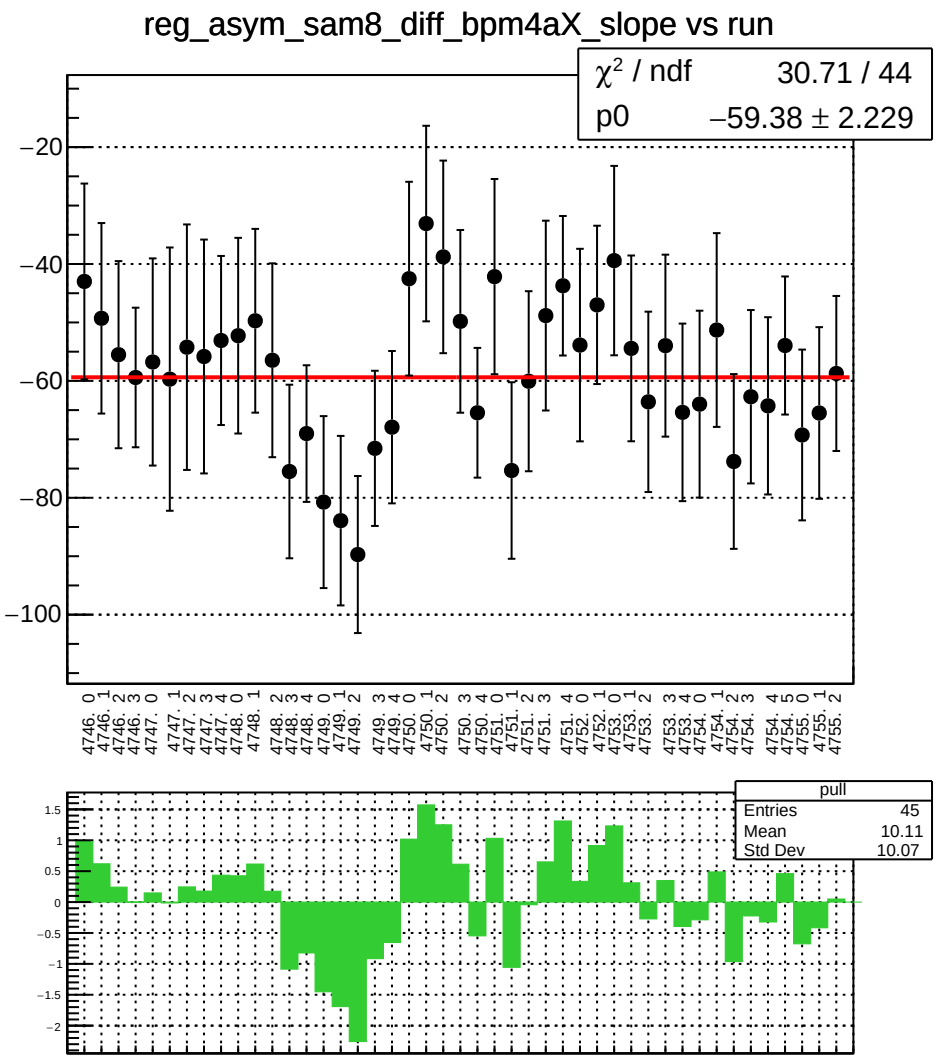

pull1D
Entries 45
Mean 0.01018
Std Dev 1.41

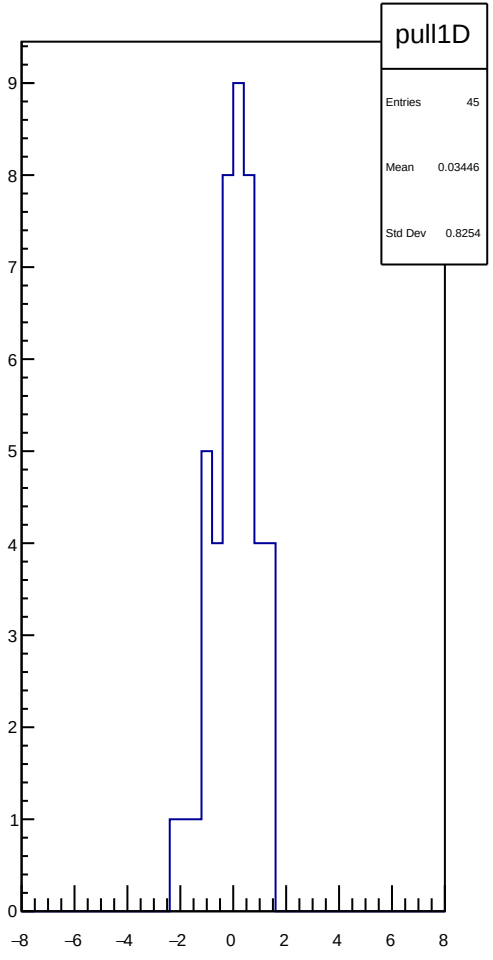

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 2.64 / 44
p0 −84.83 ± 4.117
pull
Entries 45
Mean −8.147
Std Dev 32.41

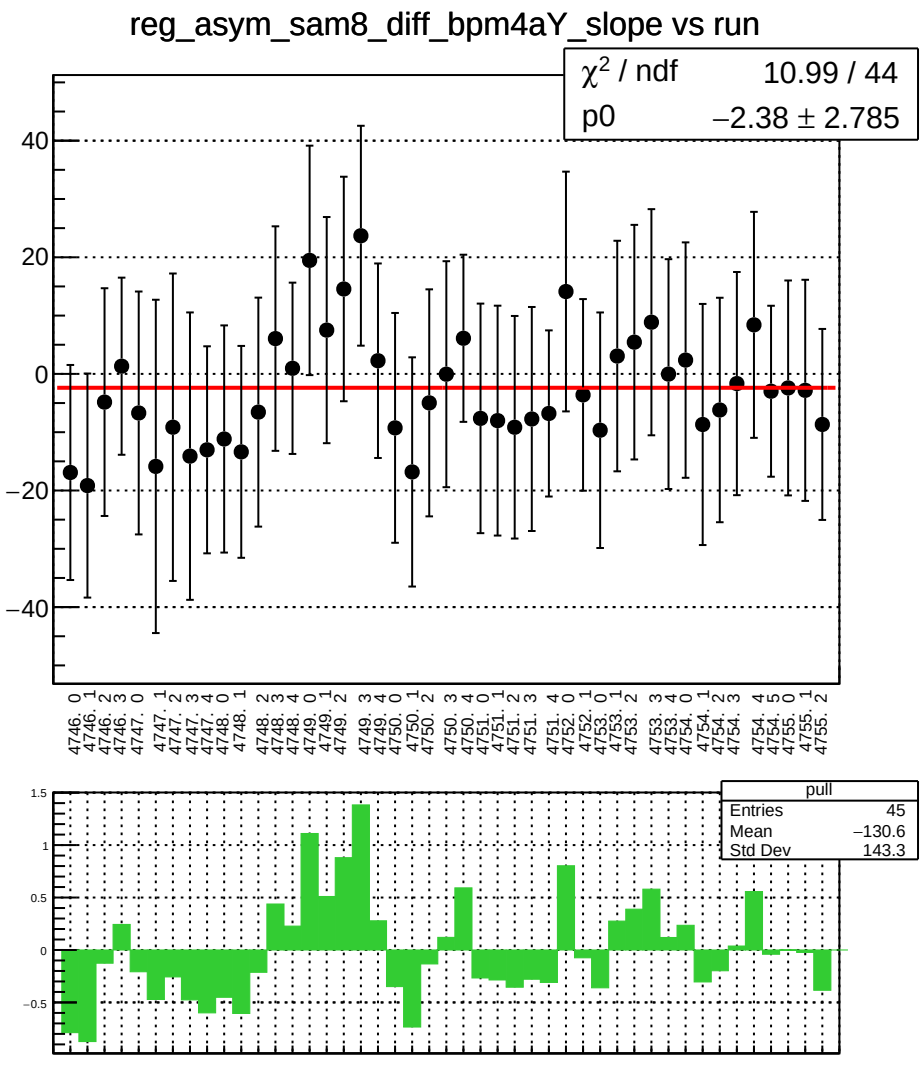

pull1D
Entries 45
Mean 0.006461
Std Dev 0.2421

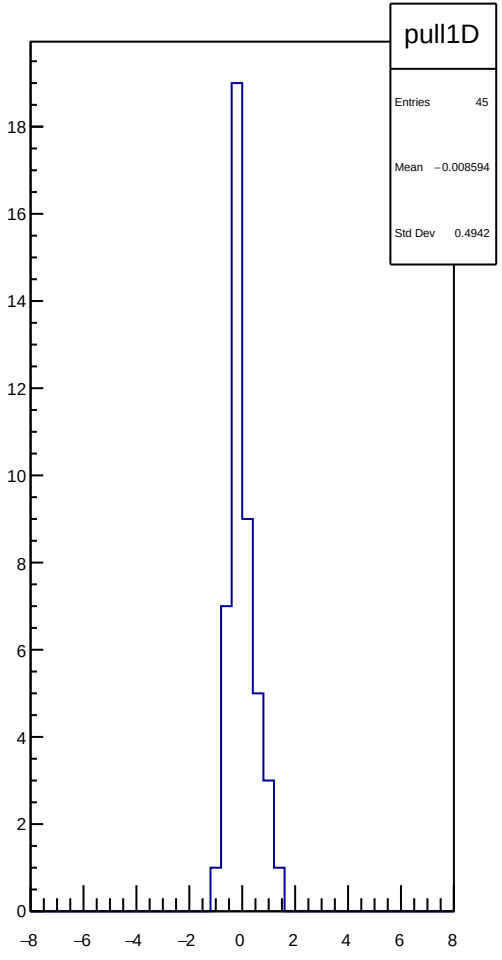

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 3.935 / 44
p0 0.3413 ± 0.8796
pull
Entries 45
Mean −2.626
Std Dev 8.5

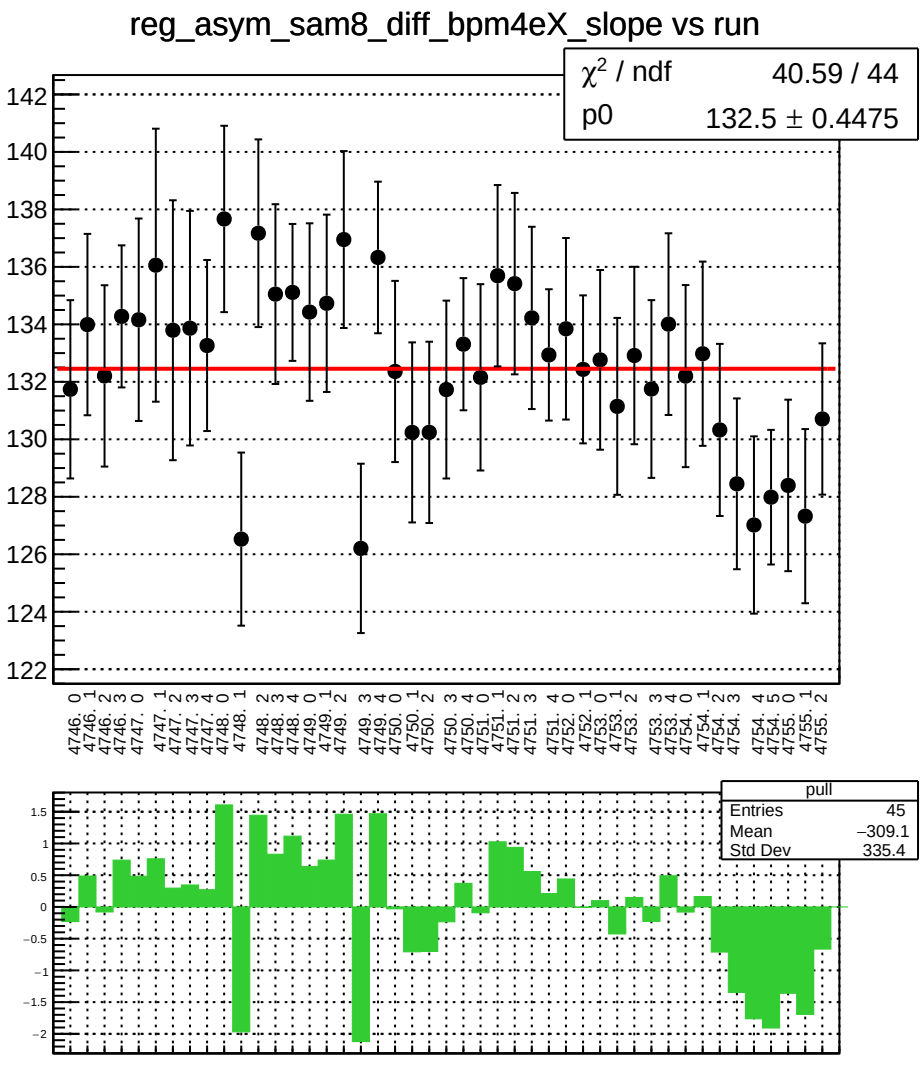

pull1D
Entries 45
Mean 0.007028
Std Dev 0.2956

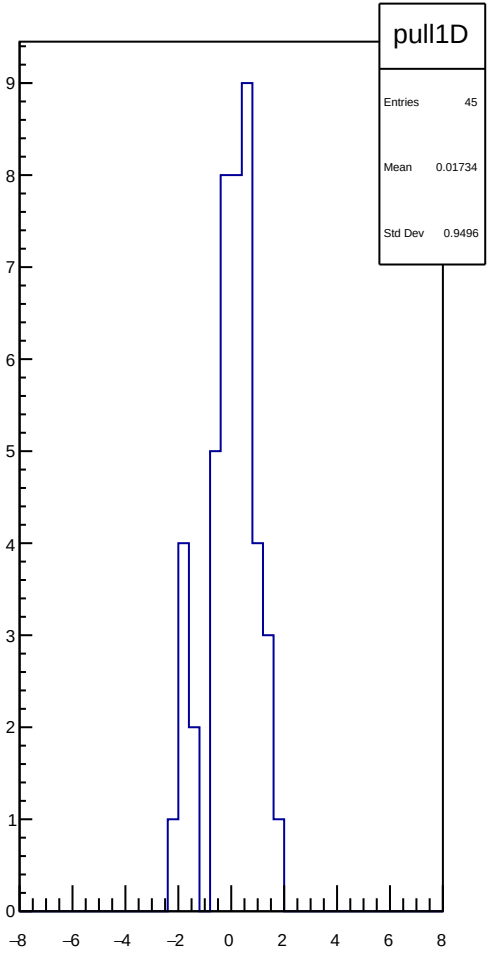

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 30.71 / 44
p0 −59.38 ± 2.229
−20
−40
−60
−80
−100
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 10.11
Std Dev 10.07
1.5
1
0.5
0
−0.5
−1
−1.5
−2

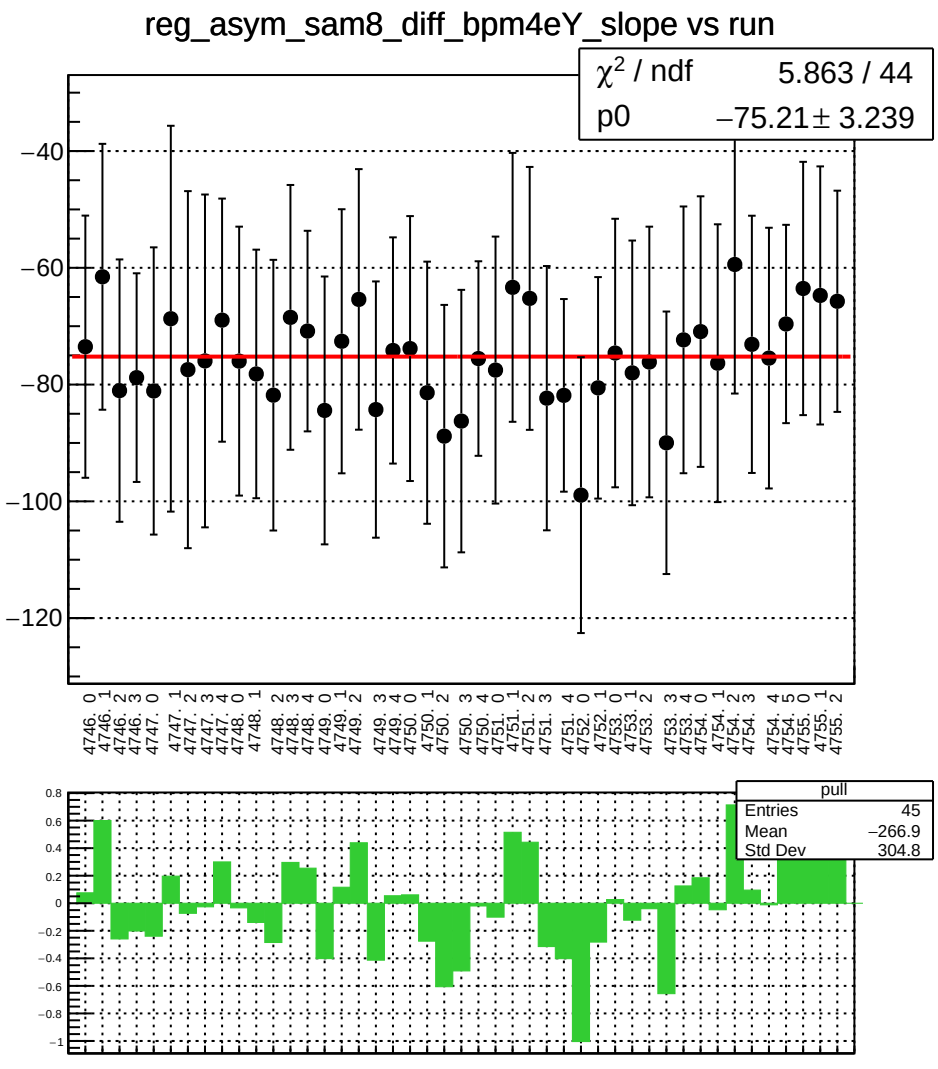

pull1D
Entries 45
Mean 0.03446
Std Dev 0.8254
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

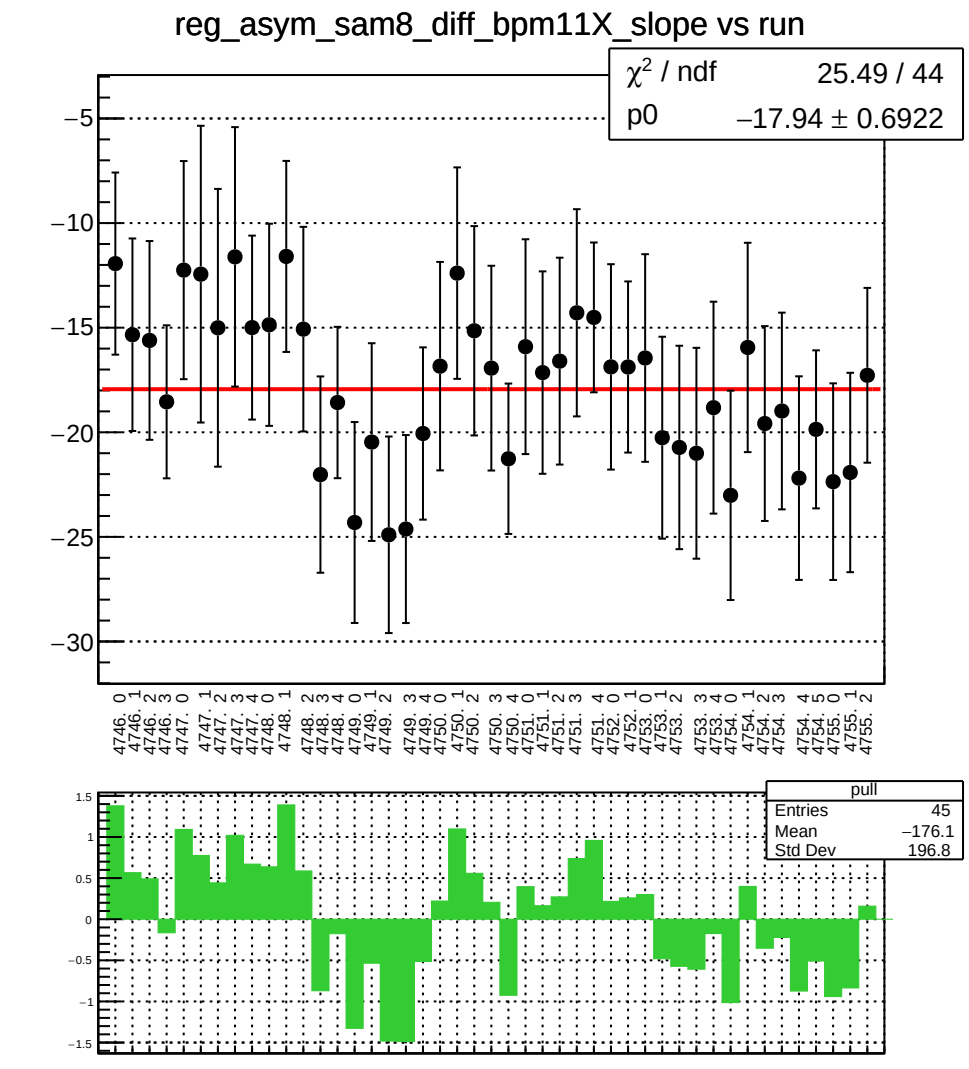

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 10.99 / 44
p0 −2.38 ± 2.785
40
20
0
−20
−40
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −130.6
Std Dev 143.3
1.5
1
0.5
0
−0.5

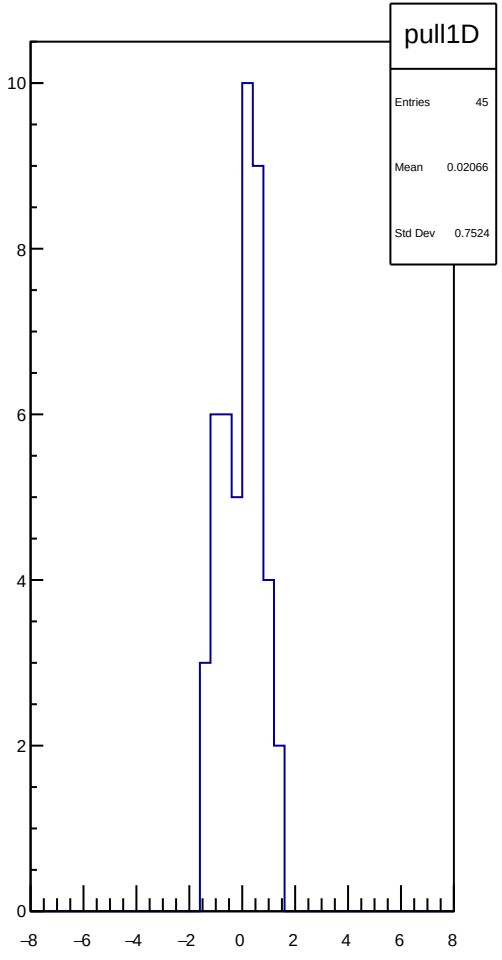

pull1D
Entries 45
Mean −0.008594
Std Dev 0.4942
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

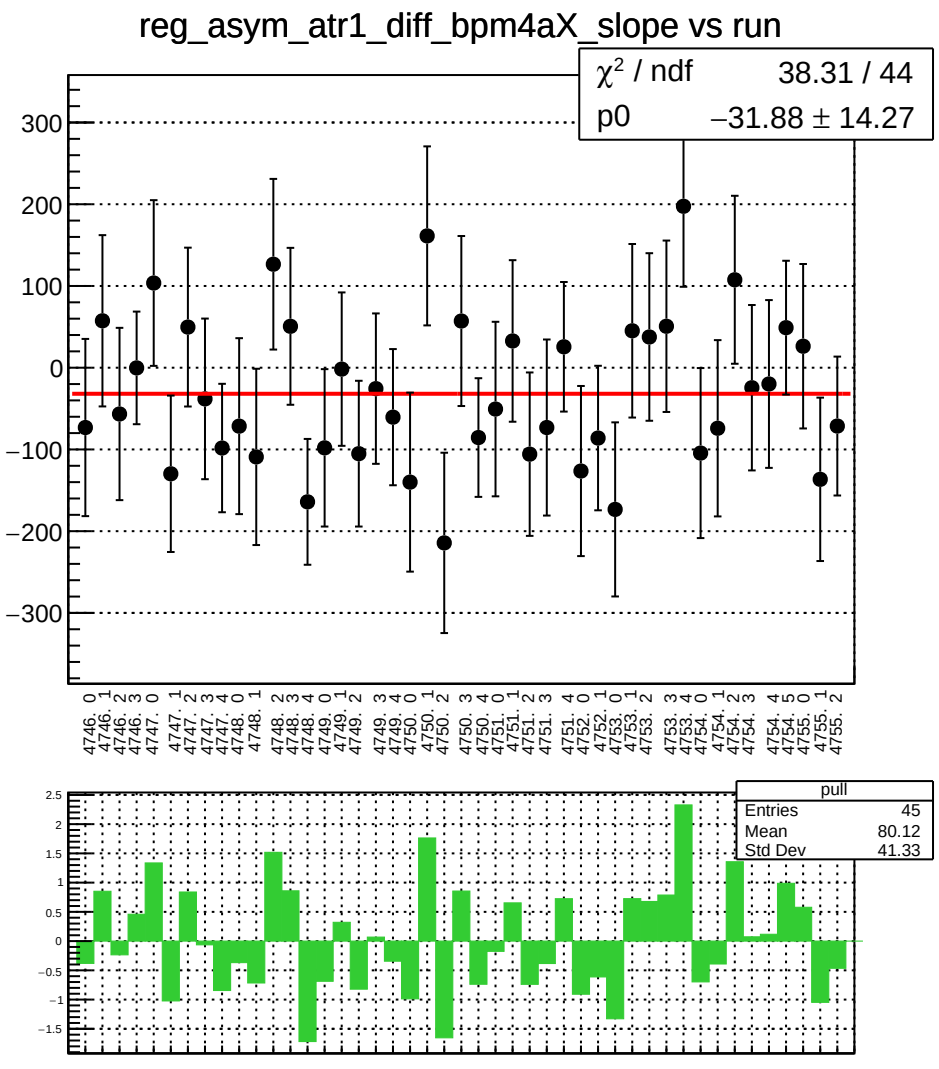

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 40.59 / 44
p0 132.5 ± 0.4475
pull
Entries 45
Mean −309.1
Std Dev 335.4

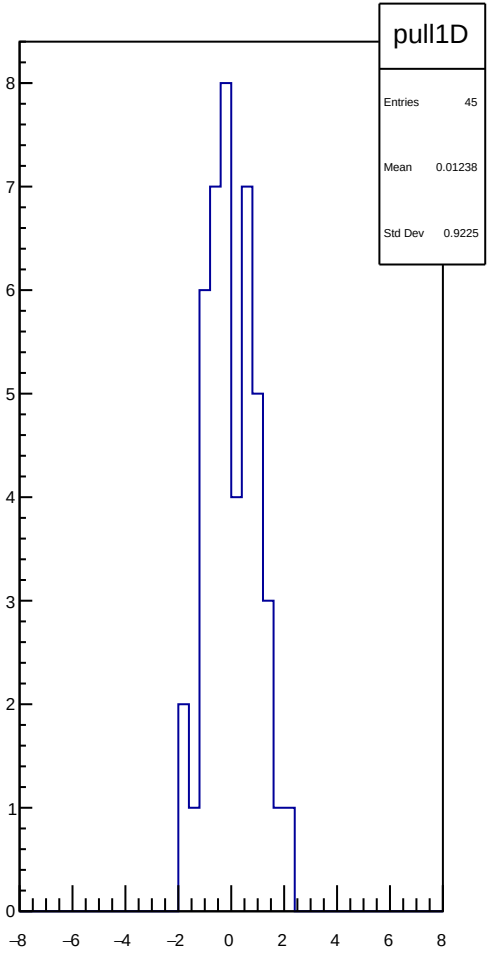

pull1D
Entries 45
Mean 0.01734
Std Dev 0.9496

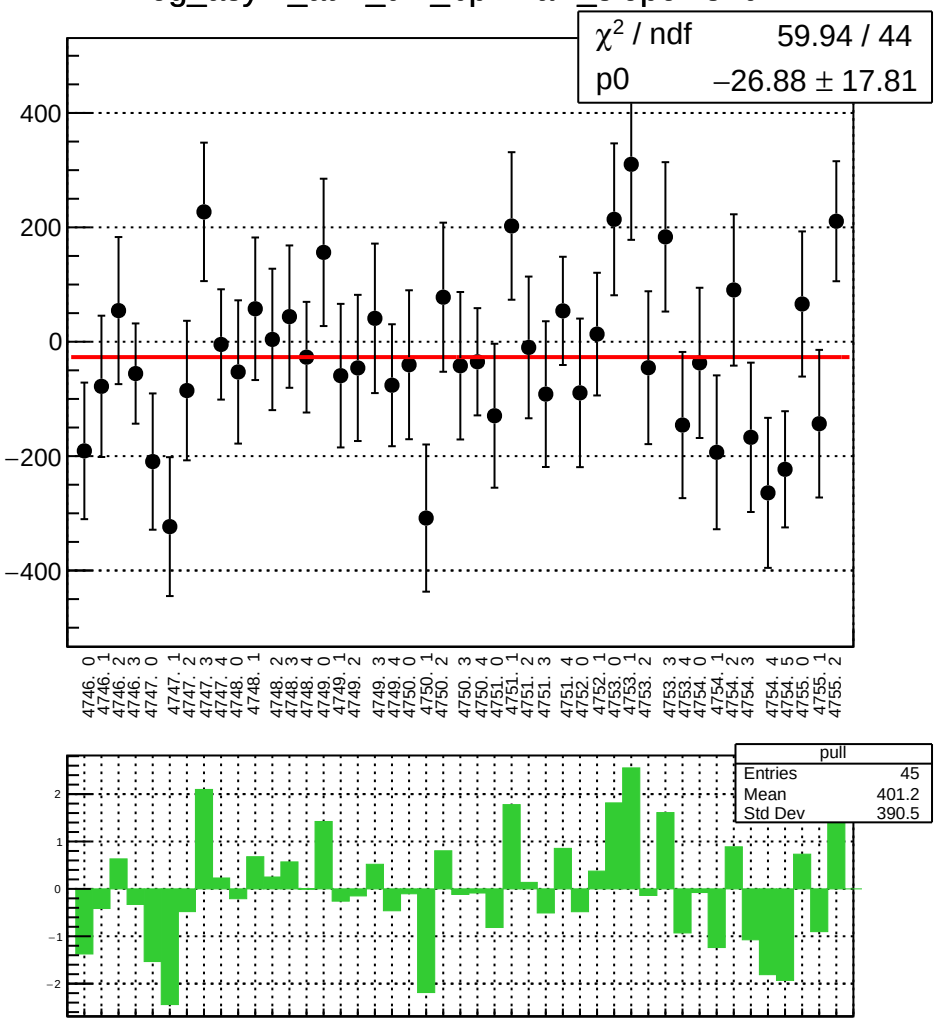

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 5.863 / 44
p0 −75.21 ± 3.239
−40
−60
−80
−100
−120
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −266.9
Std Dev 304.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean −0.002341
Std Dev 0.3609
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

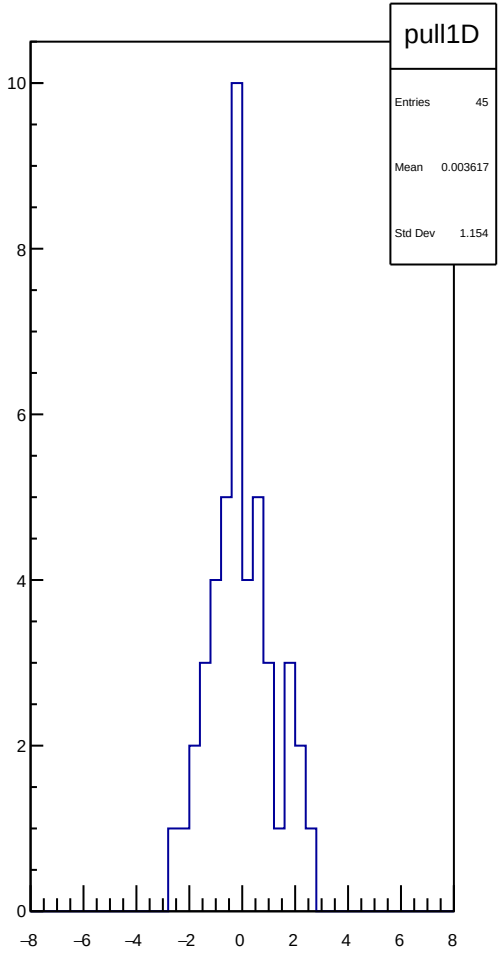

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 25.49 / 44
p0 −17.94 ± 0.6922
pull
Entries 45
Mean −176.1
Std Dev 196.8

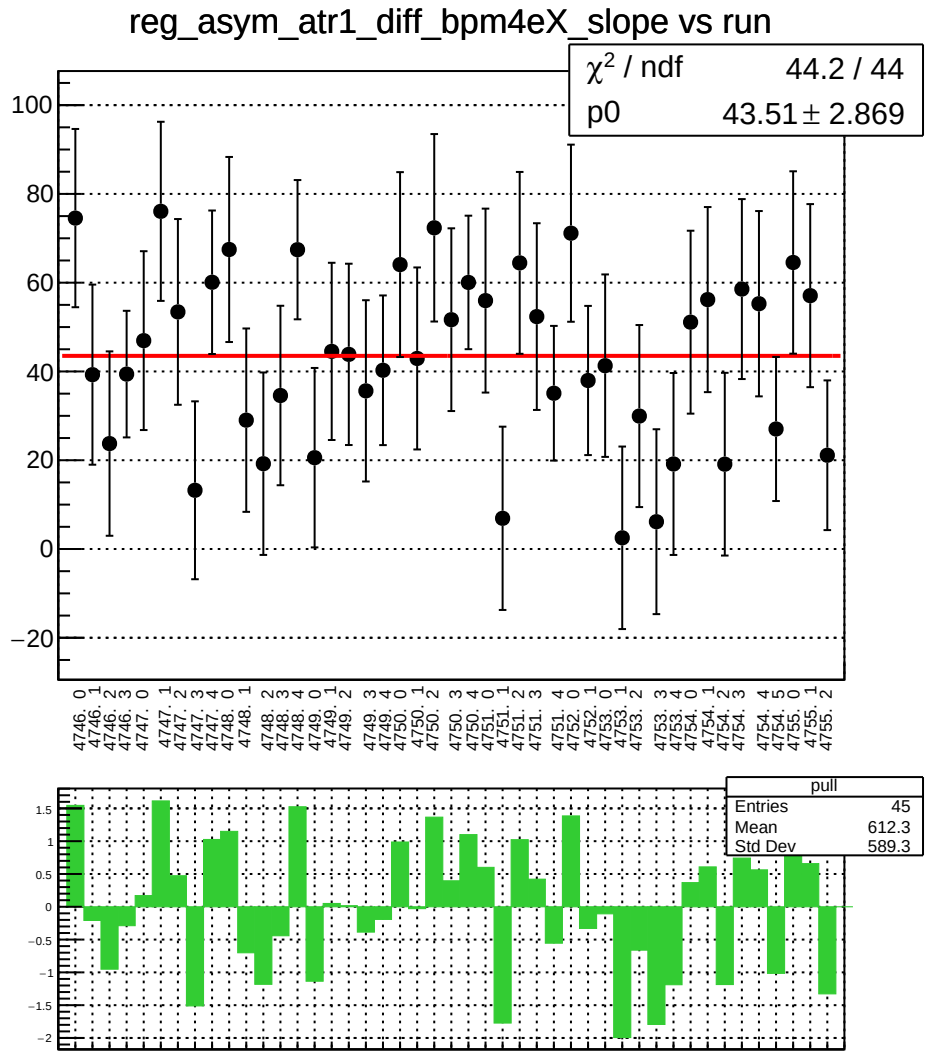

pull1D
Entries 45
Mean 0.02066
Std Dev 0.7524

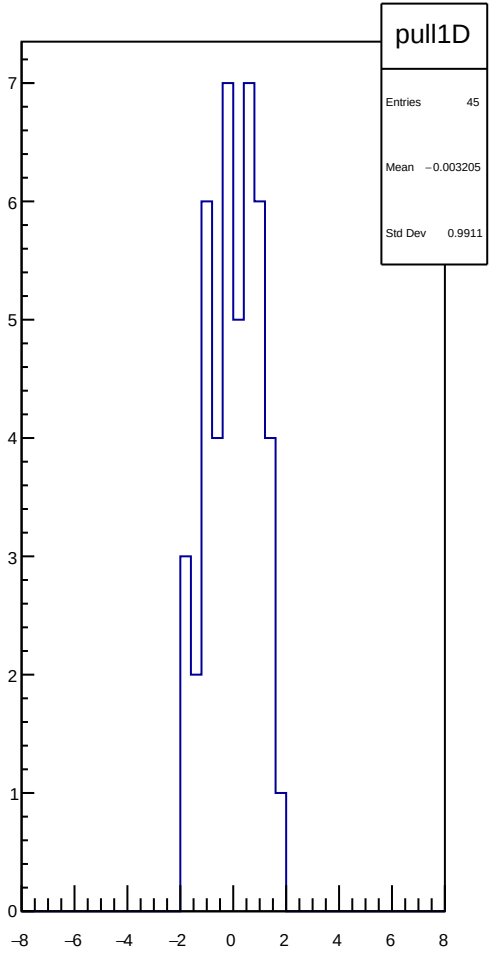

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 38.31 / 44
p0 −31.88 ± 14.27
pull
Entries 45
Mean 80.12
Std Dev 41.33

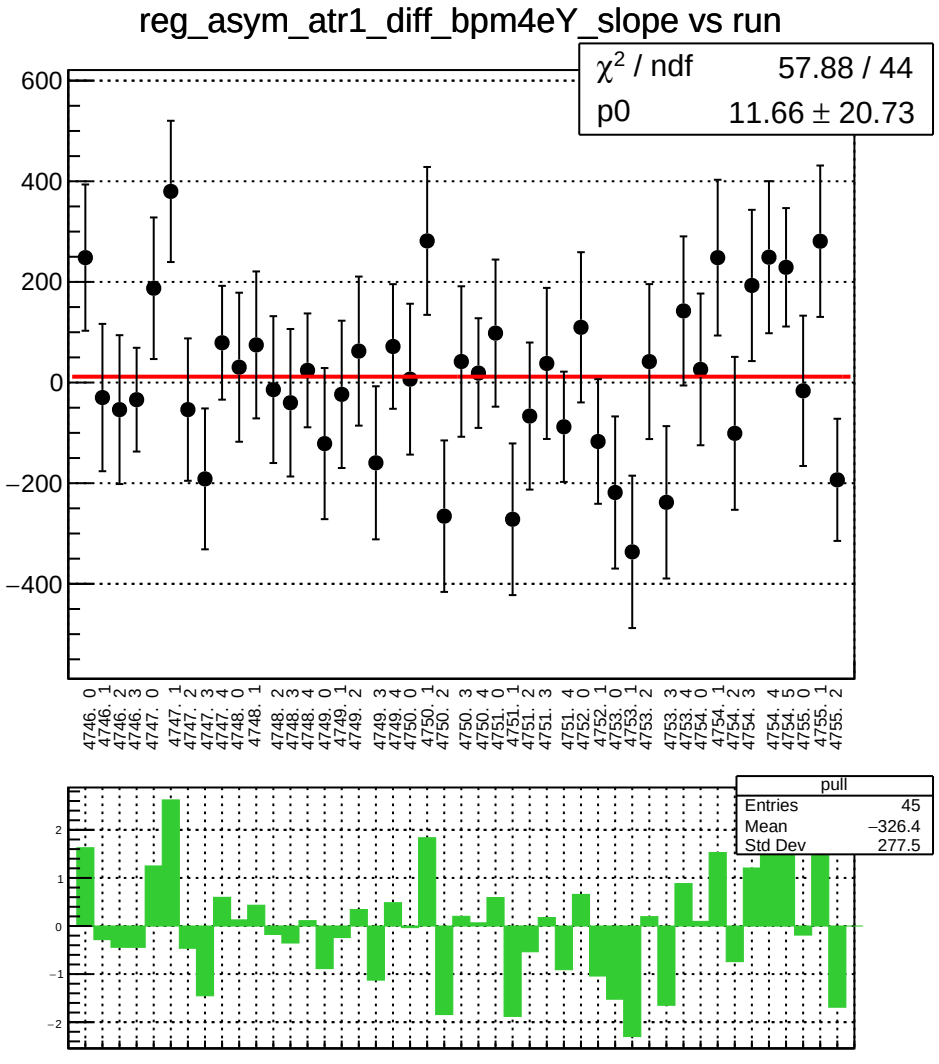

pull1D
Entries 45
Mean 0.01238
Std Dev 0.9225

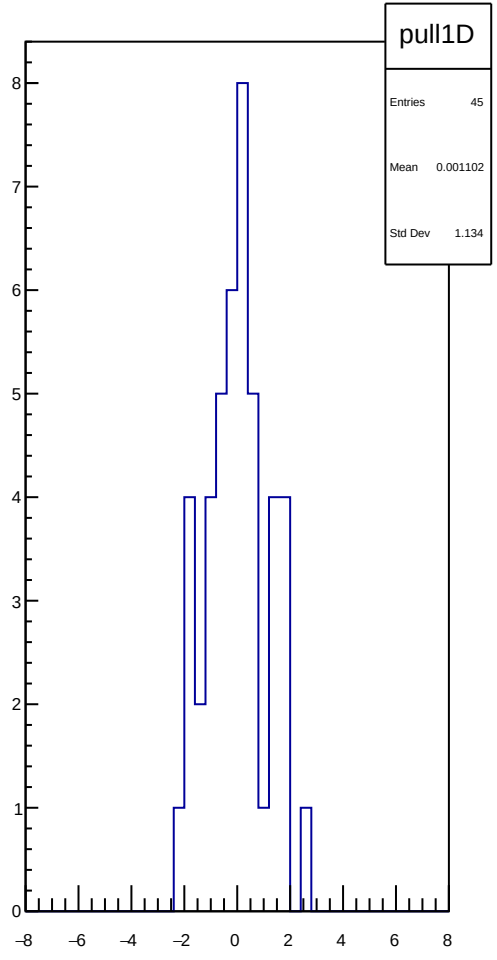

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 59.94 / 44
p0 −26.88 ± 17.81
400
200
0
−200
−400
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 401.2
Std Dev 390.5
2
1
0
−1
−2

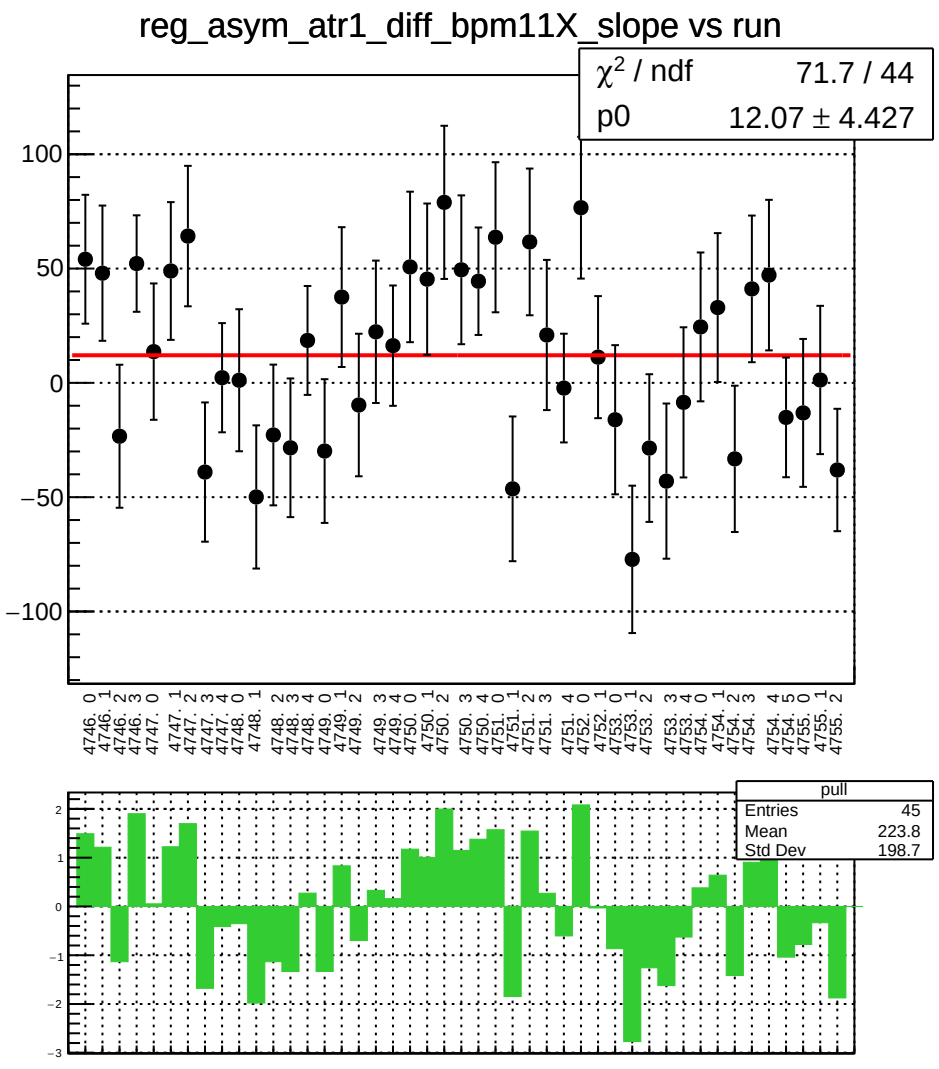

pull1D
Entries 45
Mean 0.003617
Std Dev 1.154
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

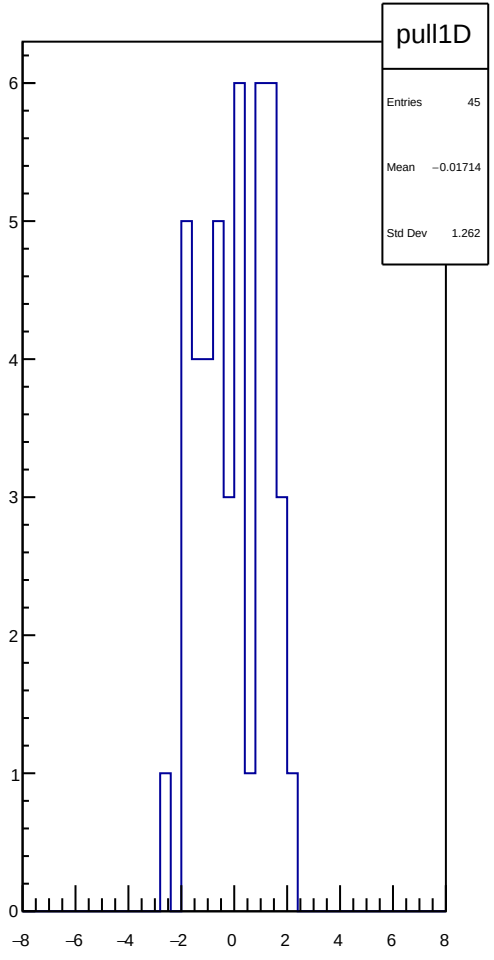

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 44.2 / 44
p0 43.51 ± 2.869
pull
Entries 45
Mean 612.3
Std Dev 589.3

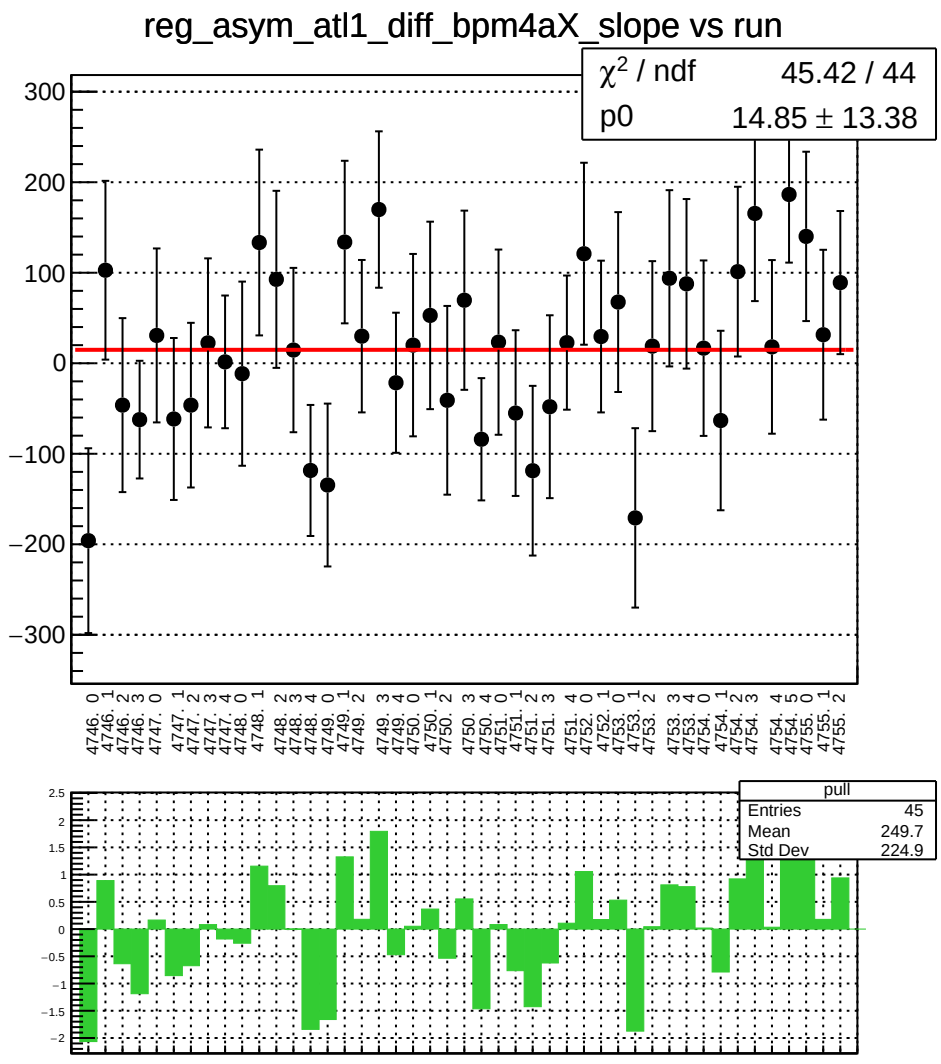

pull1D
Entries 45
Mean −0.003205
Std Dev 0.9911

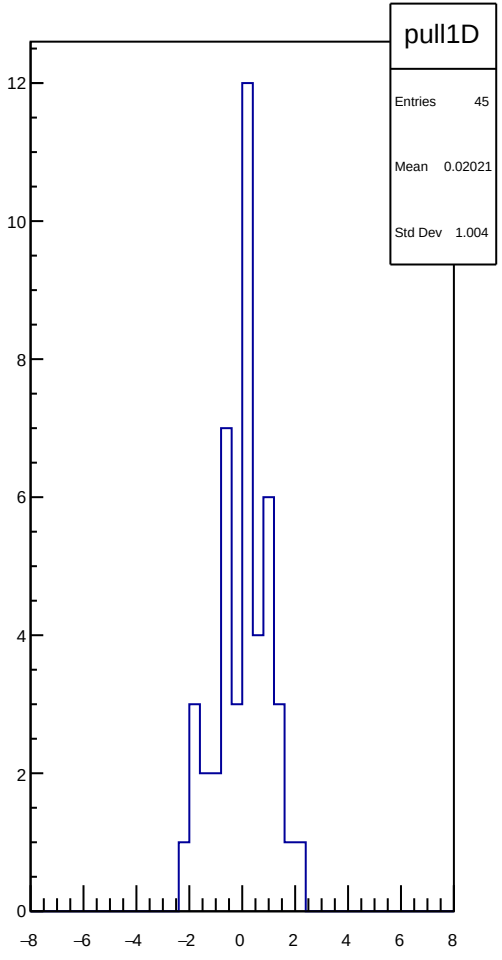

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 57.88 / 44
p0 11.66 ± 20.73
600
400
200
0
−200
−400
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −326.4
Std Dev 277.5
2
1
0
−1
−2

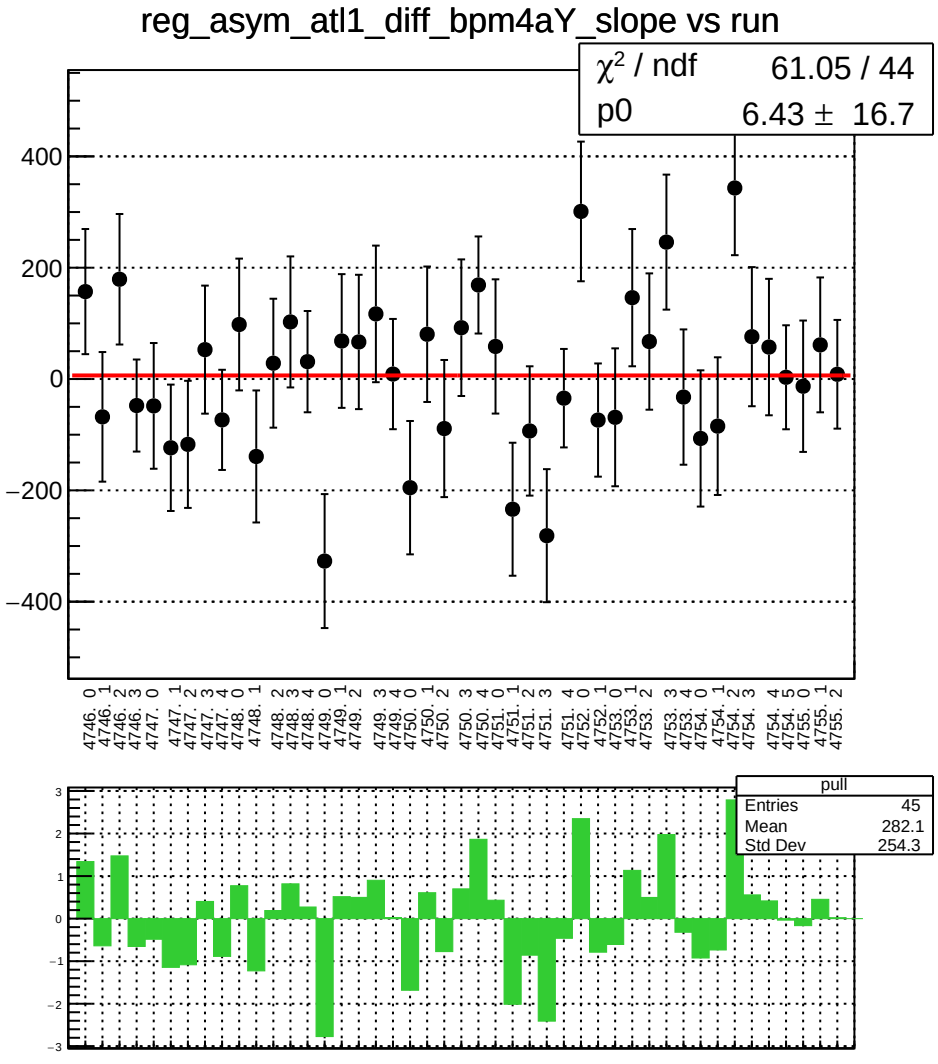

pull1D
Entries 45
Mean 0.001102
Std Dev 1.134
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

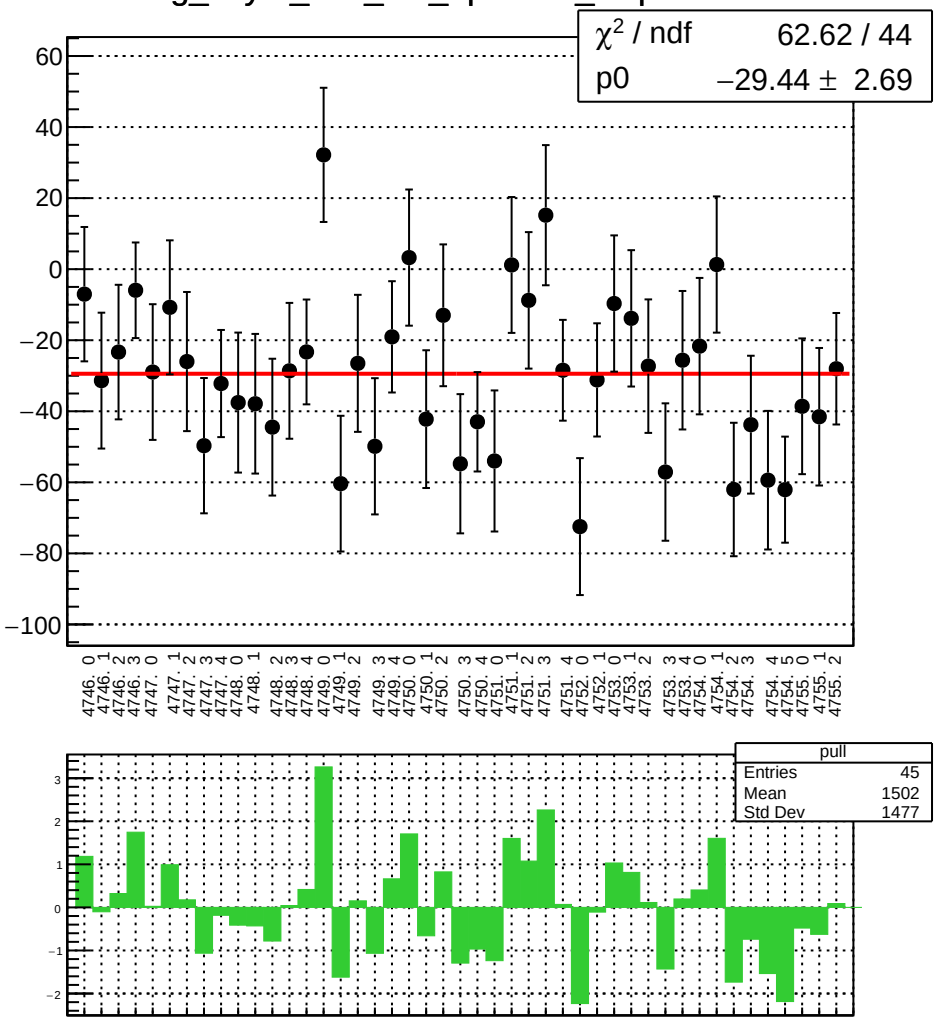

reg_asym_atr1_diff_bpm11X_slope vs run
χ² / ndf 71.7 / 44
p0 12.07 ± 4.427
pull
Entries 45
Mean 223.8
Std Dev 198.7

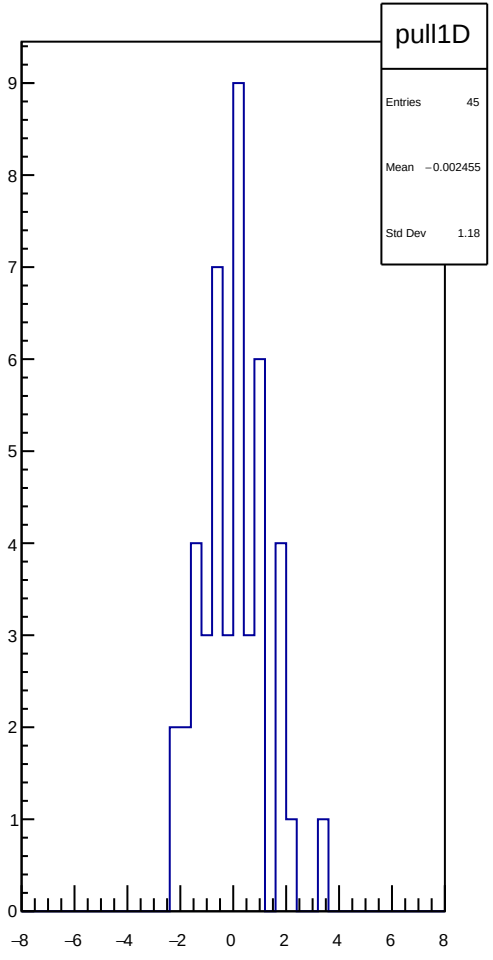

pull1D
Entries 45
Mean −0.01714
Std Dev 1.262

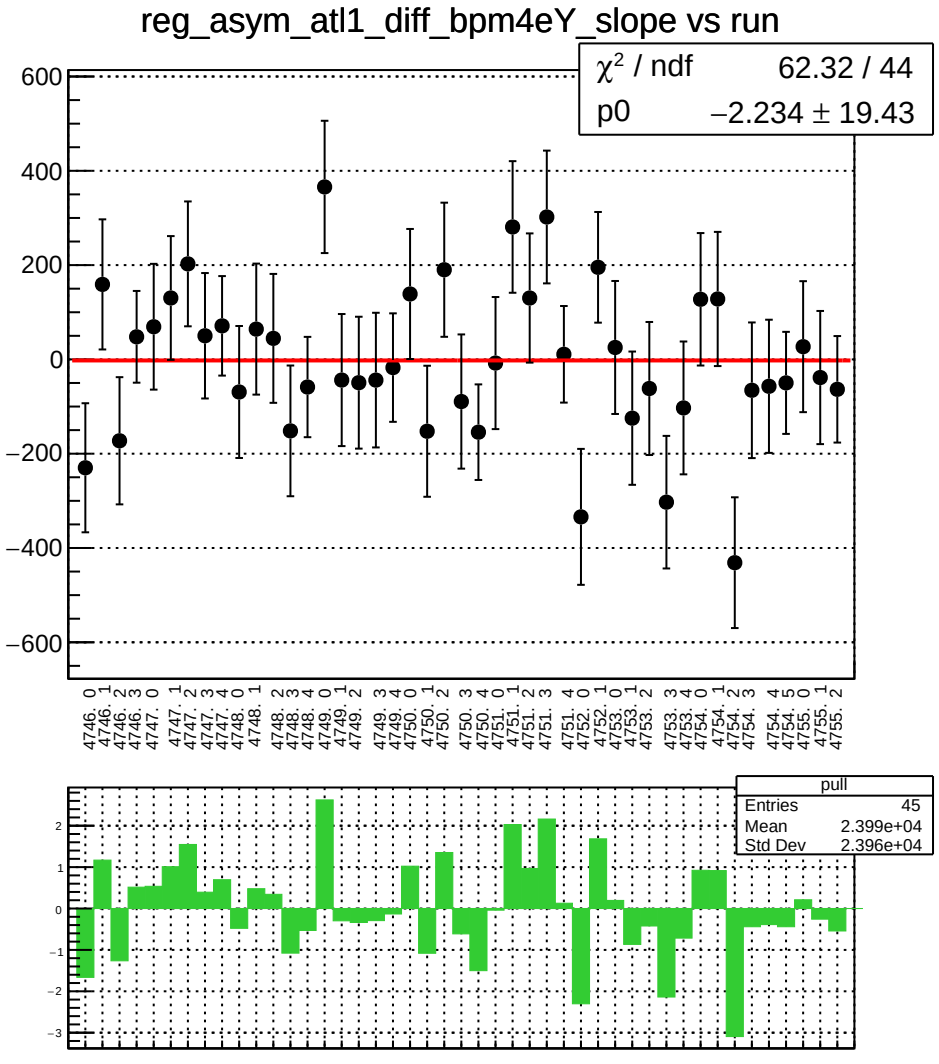

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 45.42 / 44
p0 14.85 ± 13.38
pull
Entries 45
Mean 249.7
Std Dev 224.9

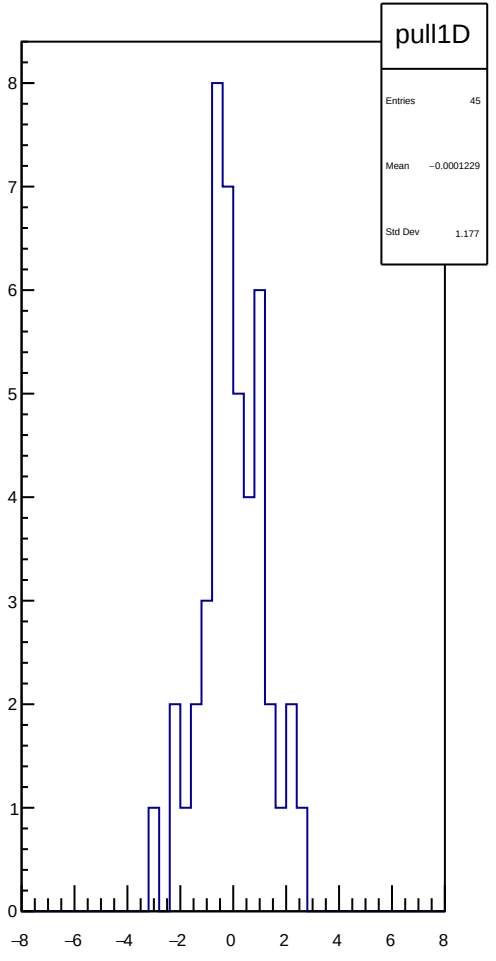

pull1D
Entries 45
Mean 0.02021
Std Dev 1.004

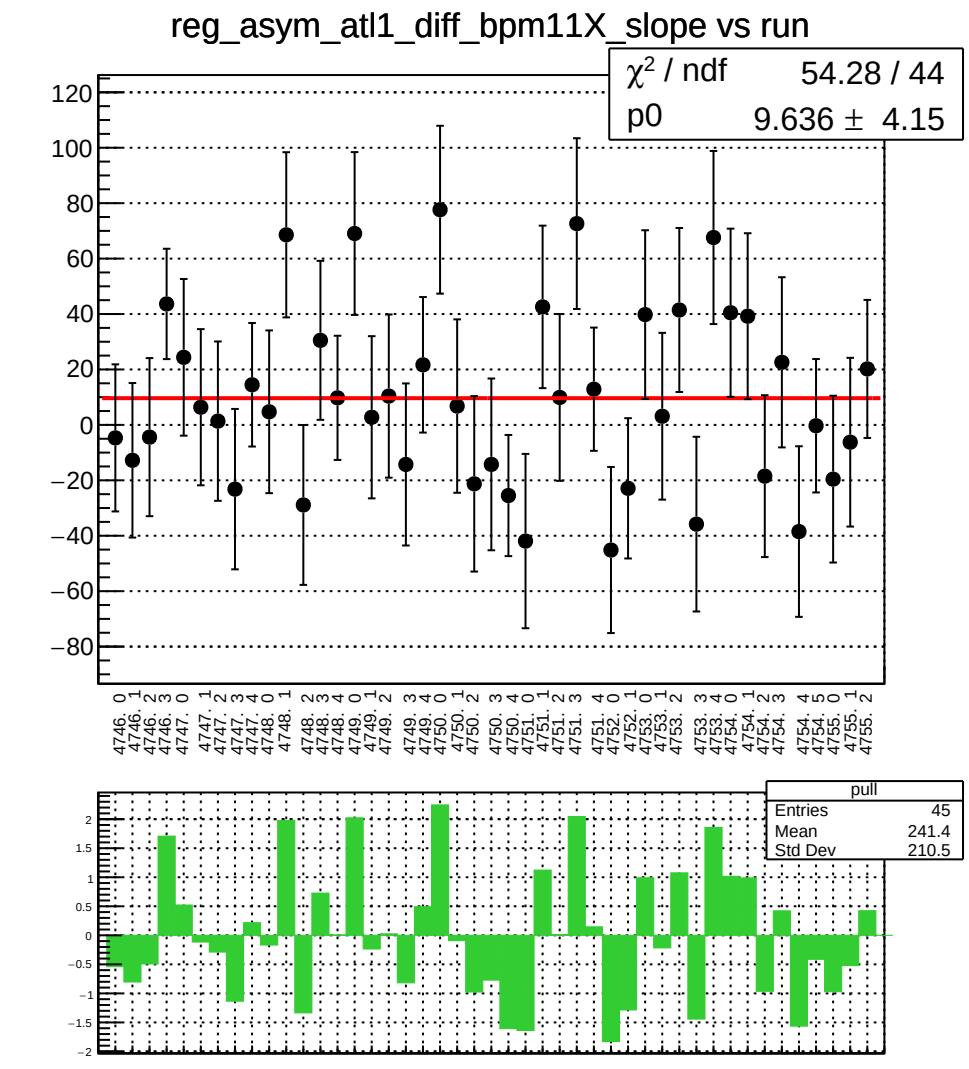

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 61.05 / 44
p0 6.43 ± 16.7
400
200
0
−200
−400
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 282.1
Std Dev 254.3
3
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.007653
Std Dev 1.165
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

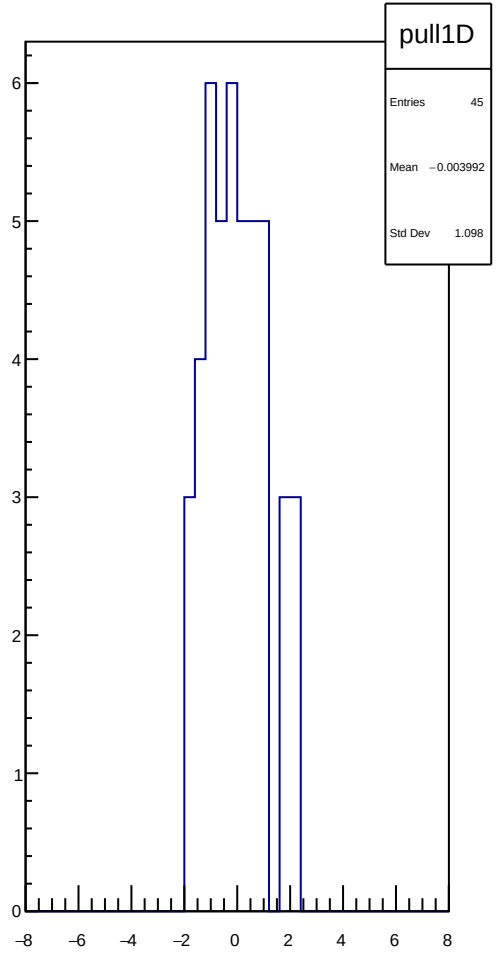

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 62.62 / 44
p0 −29.44 ± 2.69
pull
Entries 45
Mean 1502
Std Dev 1477

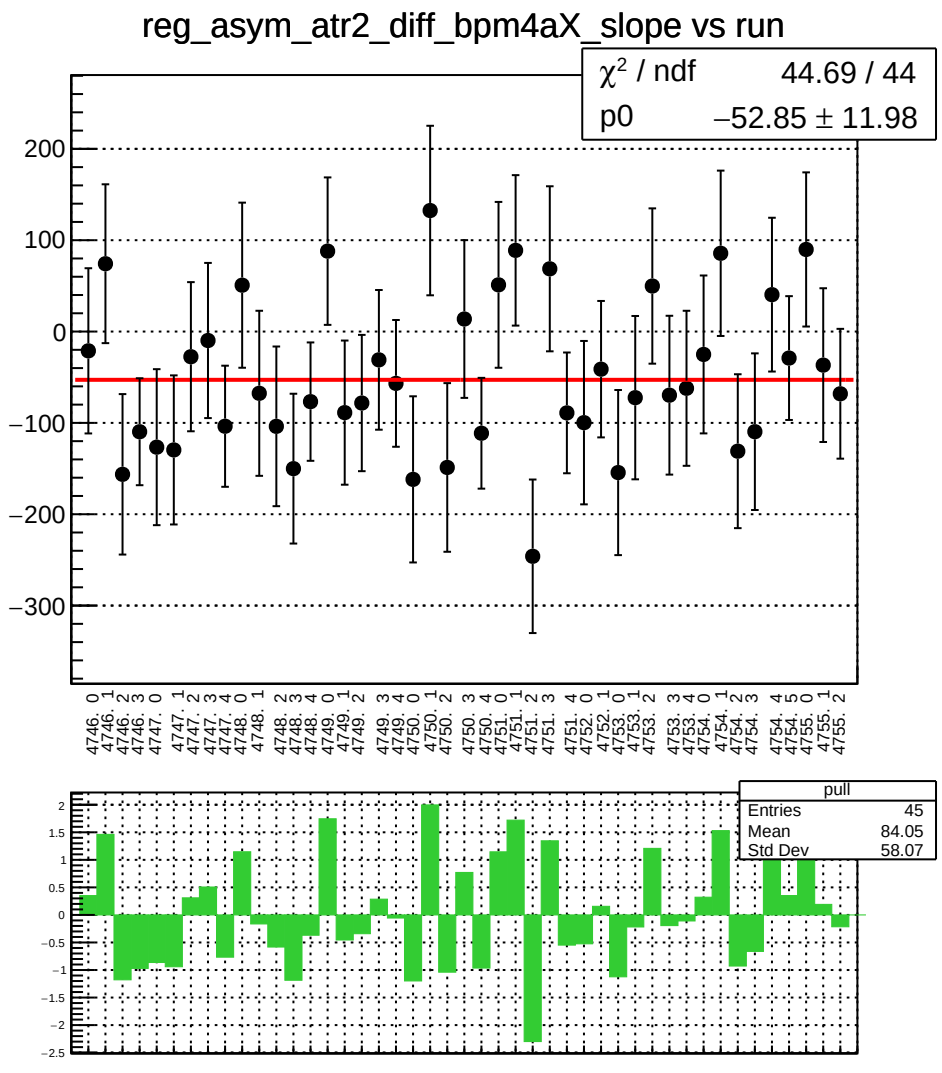

pull1D
Entries 45
Mean −0.002455
Std Dev 1.18

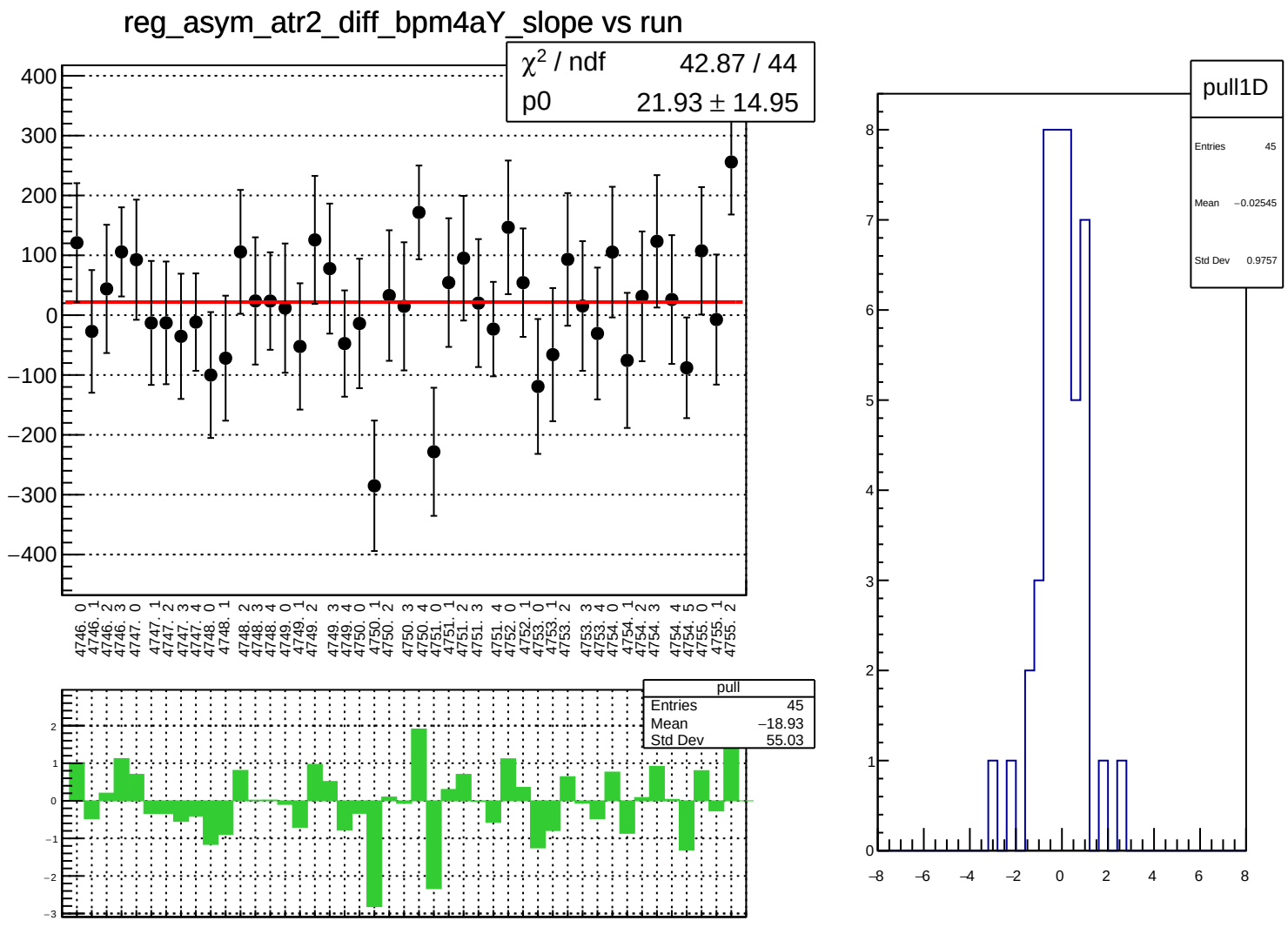

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 62.32 / 44
p0 −2.234 ± 19.43
pull
Entries 45
Mean 2.399e+04
Std Dev 2.396e+04

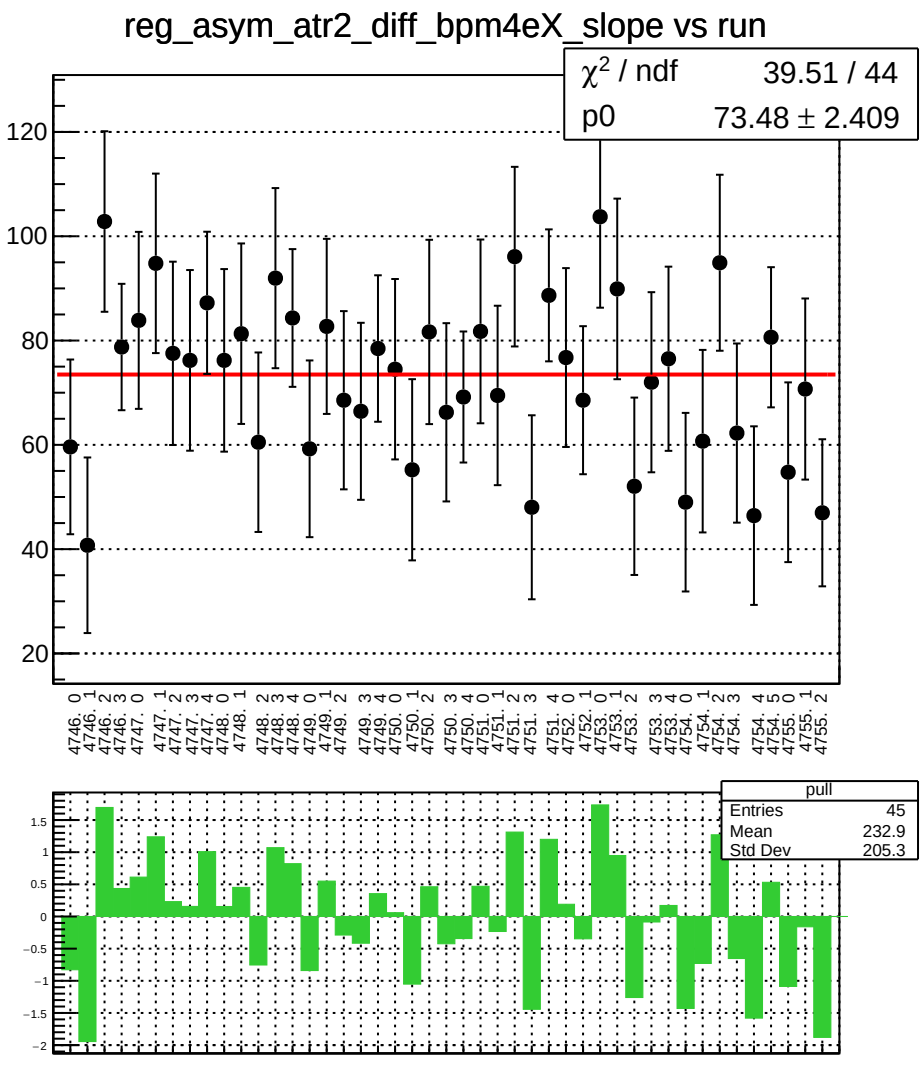

pull1D
Entries 45
Mean −0.0001229
Std Dev 1.177

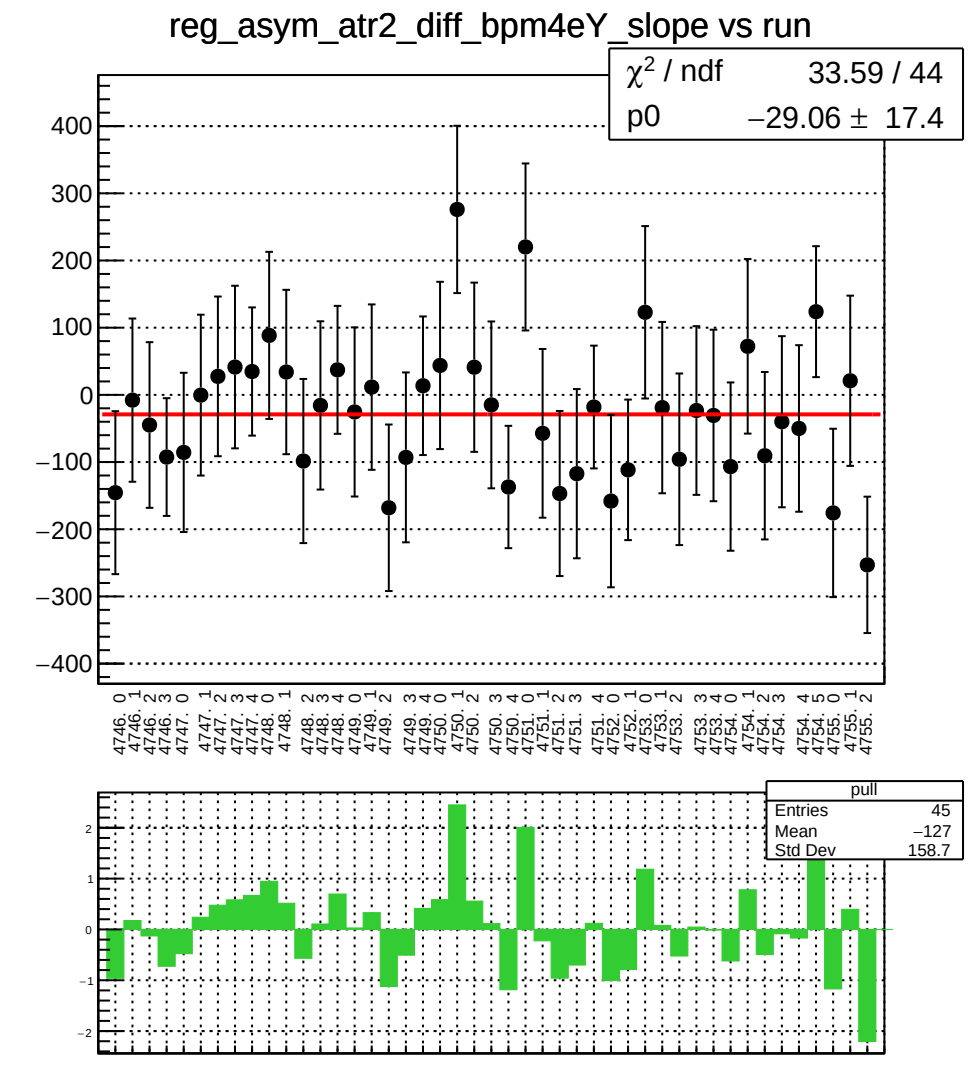

reg_asym_atl1_diff_bpm11X_slope vs run
χ² / ndf 54.28 / 44
p0 9.636 ± 4.15
pull
Entries 45
Mean 241.4
Std Dev 210.5

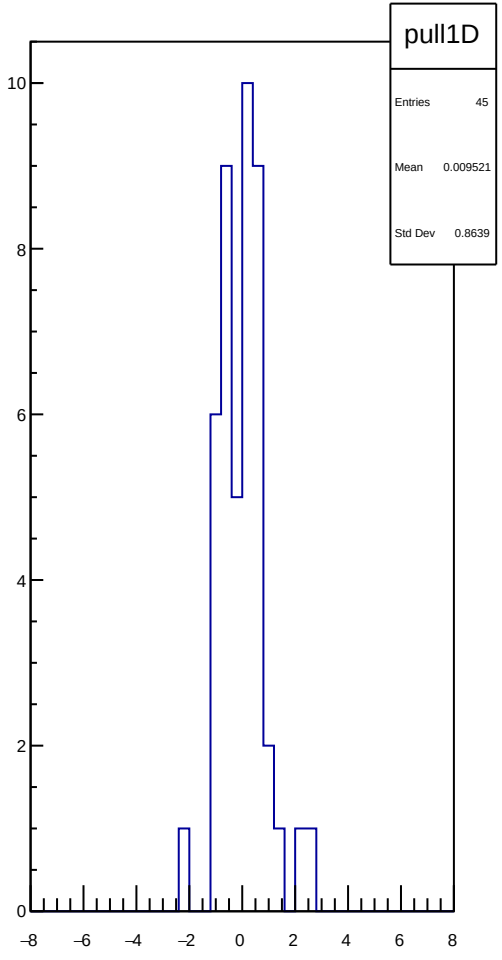

pull1D
Entries 45
Mean −0.003992
Std Dev 1.098

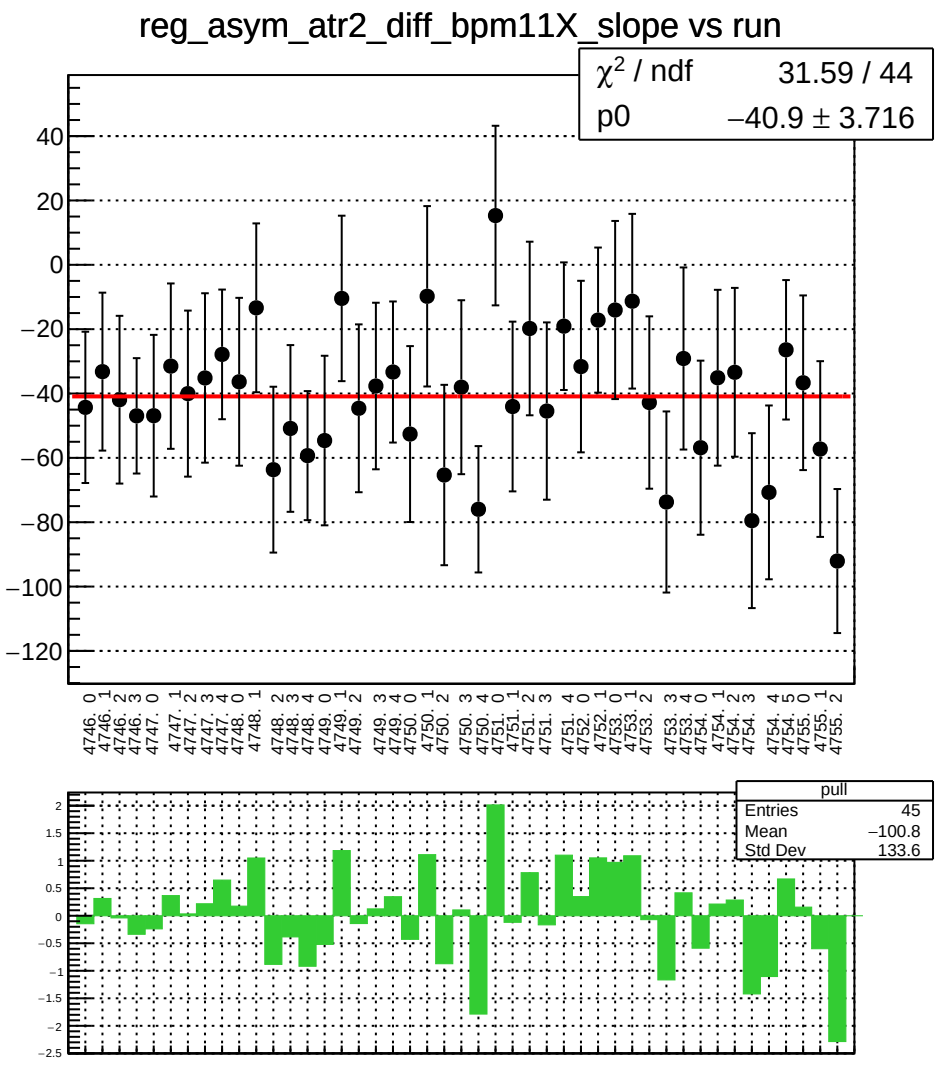

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 44.69 / 44
p0 −52.85 ± 11.98
200
100
0
−100
−200
−300
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 84.05
Std Dev 58.07
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.03223
Std Dev 0.996
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

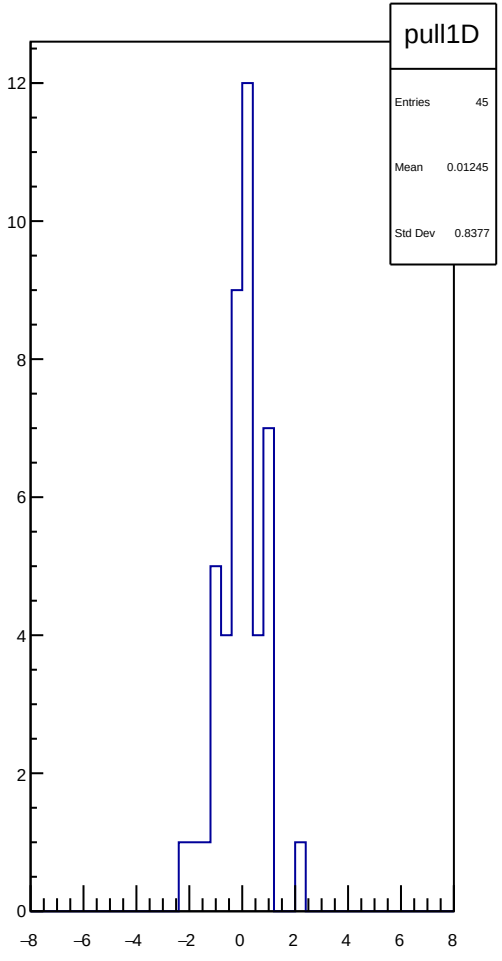

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 42.87 / 44
p0 21.93 ± 14.95
pull
Entries 45
Mean −18.93
Std Dev 55.03
pull1D
Entries 45
Mean −0.02545
Std Dev 0.9757

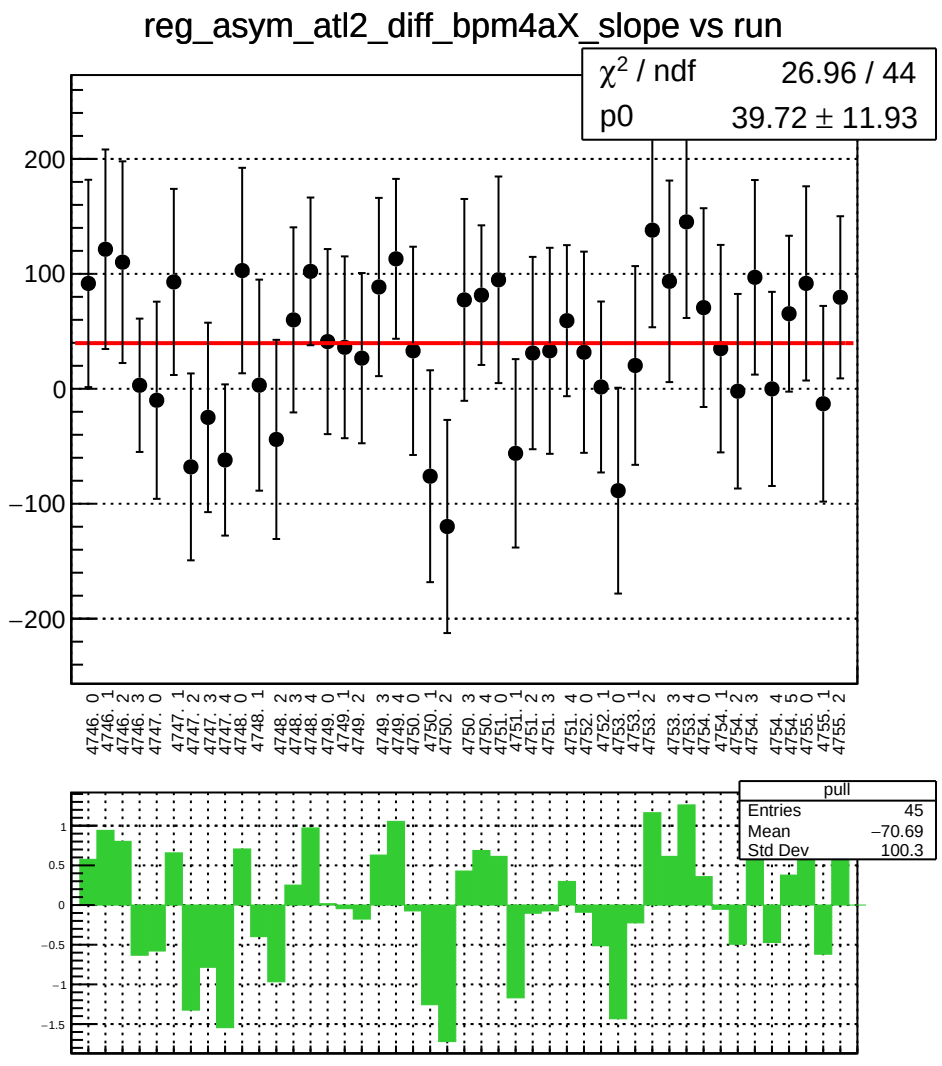

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 39.51 / 44
p0 73.48 ± 2.409
120
100
80
60
40
20
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 232.9
Std Dev 205.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.0144
Std Dev 0.9369
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

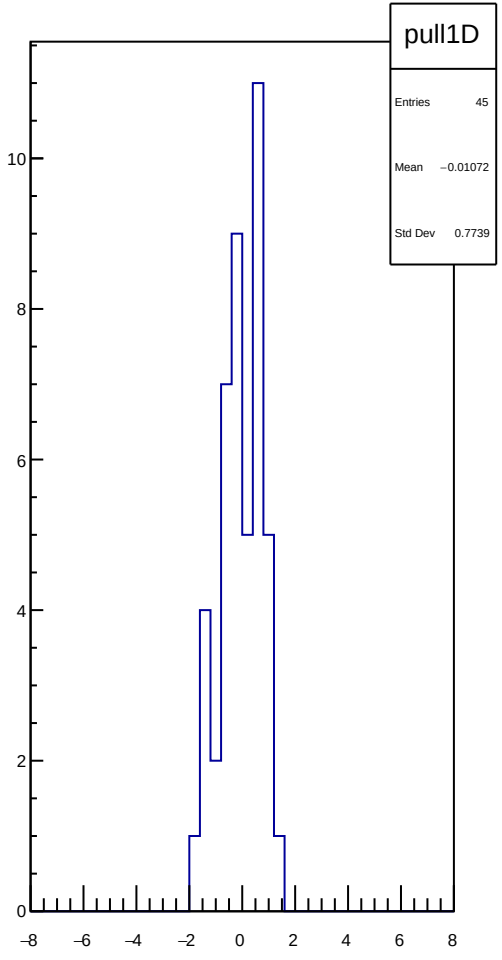

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 33.59 / 44
p0 −29.06 ± 17.4
pull
Entries 45
Mean −127
Std Dev 158.7

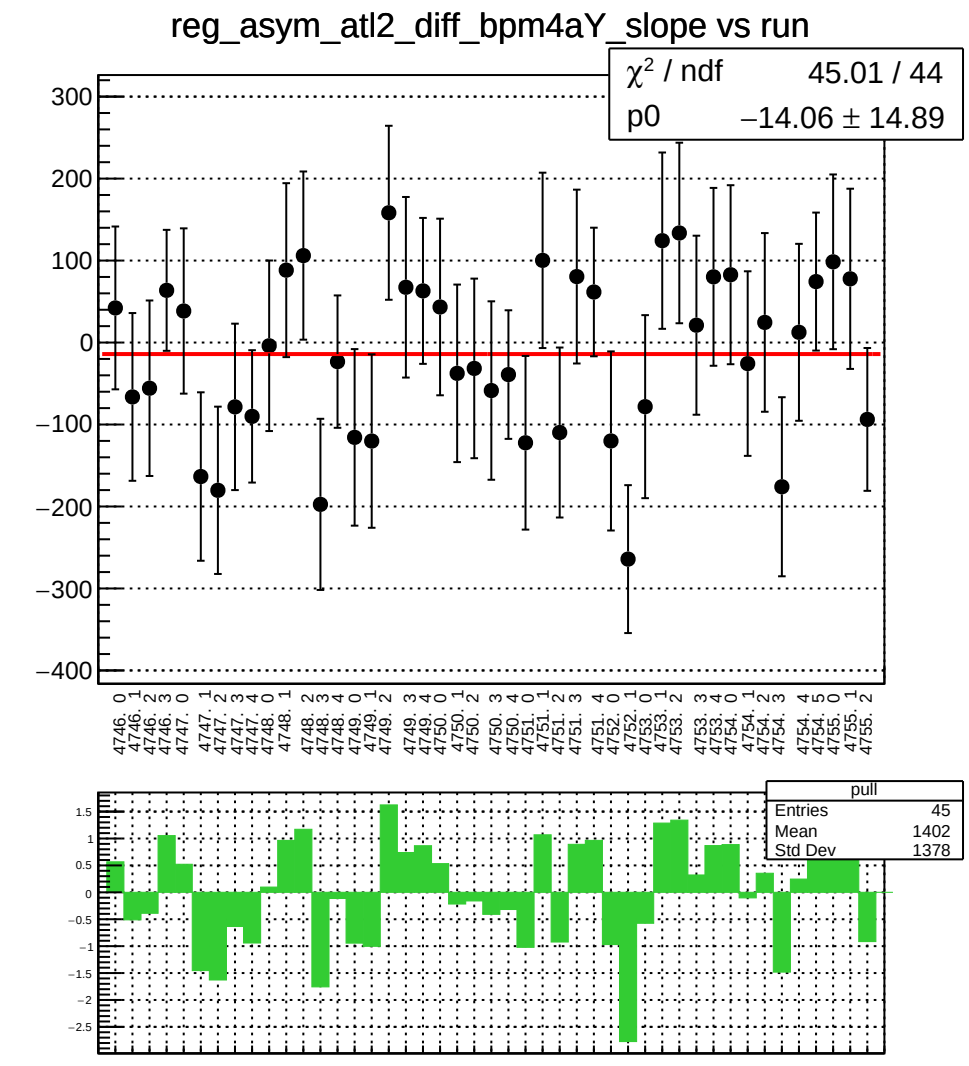

pull1D
Entries 45
Mean 0.009521
Std Dev 0.8639

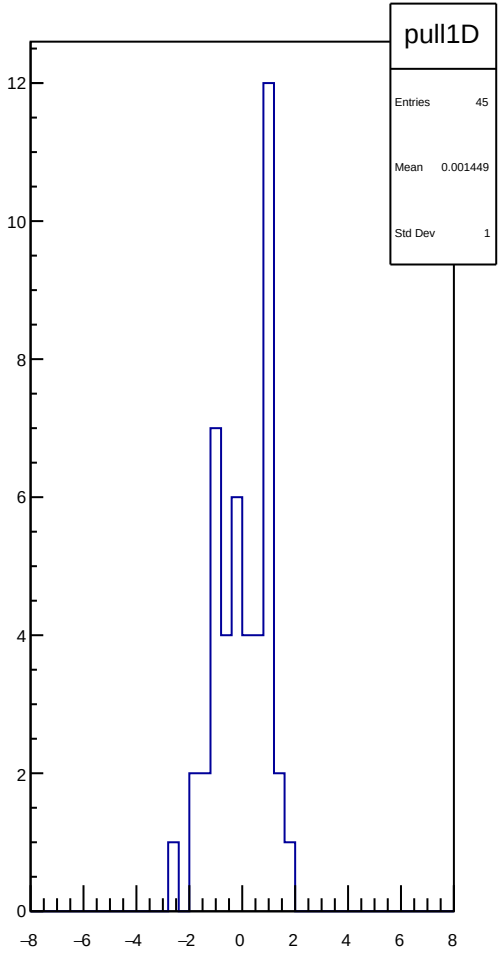

reg_asym_atr2_diff_bpm11X_slope vs run
χ² / ndf 31.59 / 44
p0 −40.9 ± 3.716
pull
Entries 45
Mean −100.8
Std Dev 133.6

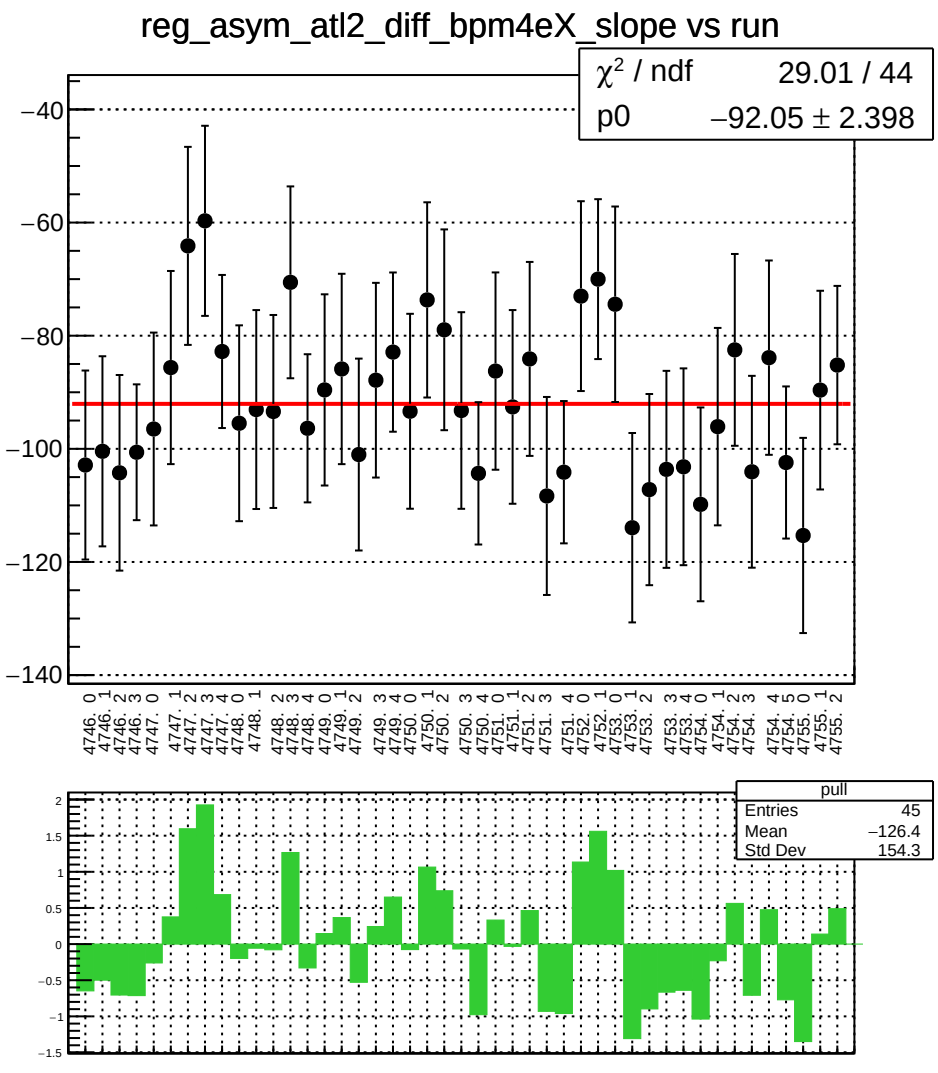

pull1D
Entries 45
Mean 0.01245
Std Dev 0.8377

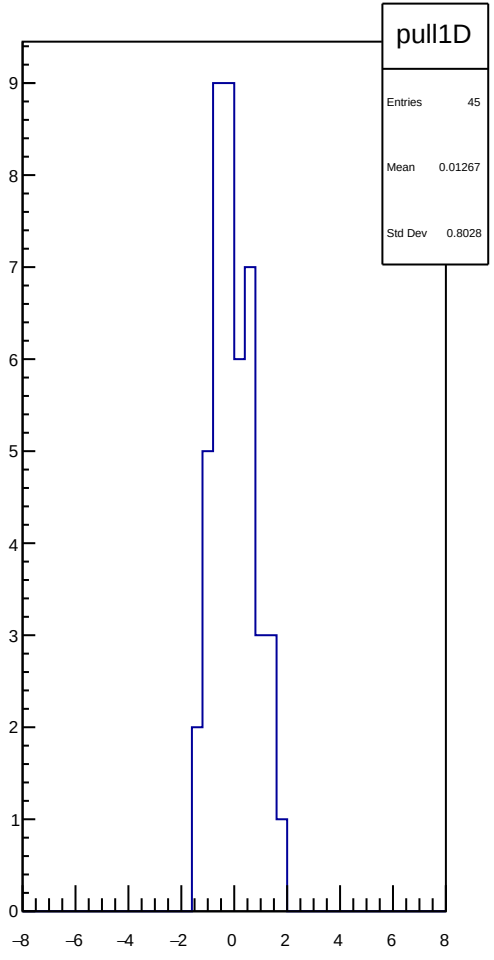

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 26.96 / 44
p0 39.72 ± 11.93
200
100
0
−100
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −70.69
Std Dev 100.3
1
0.5
0
−0.5
−1
−1.5

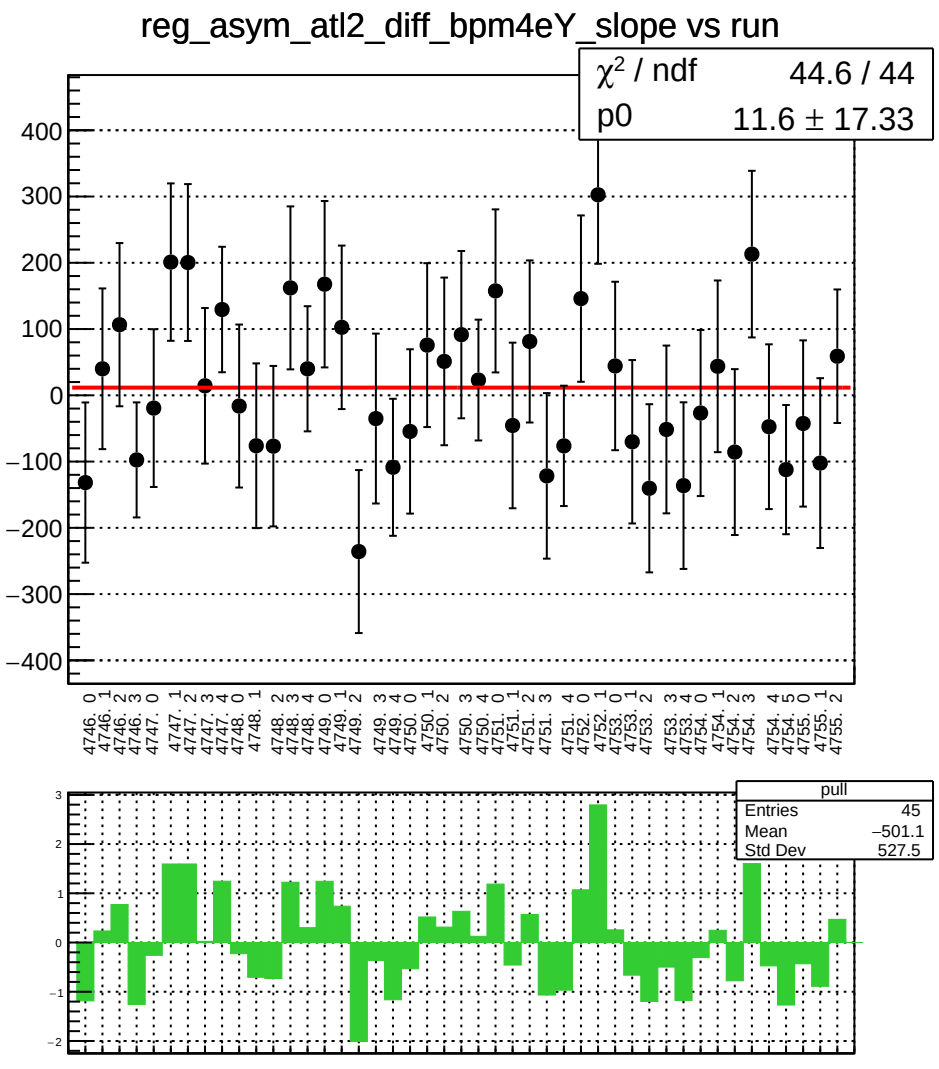

pull1D
Entries 45
Mean −0.01072
Std Dev 0.7739
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

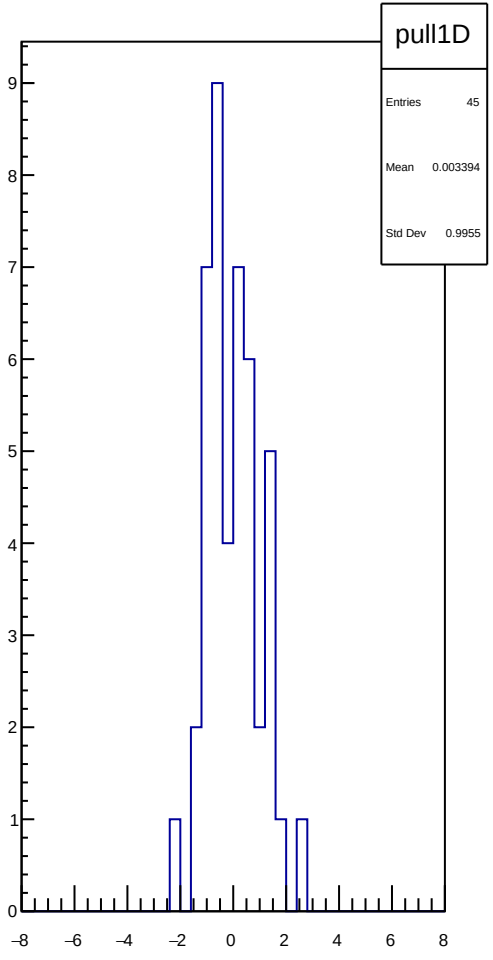

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 45.01 / 44
p0 −14.06 ± 14.89
pull
Entries 45
Mean 1402
Std Dev 1378

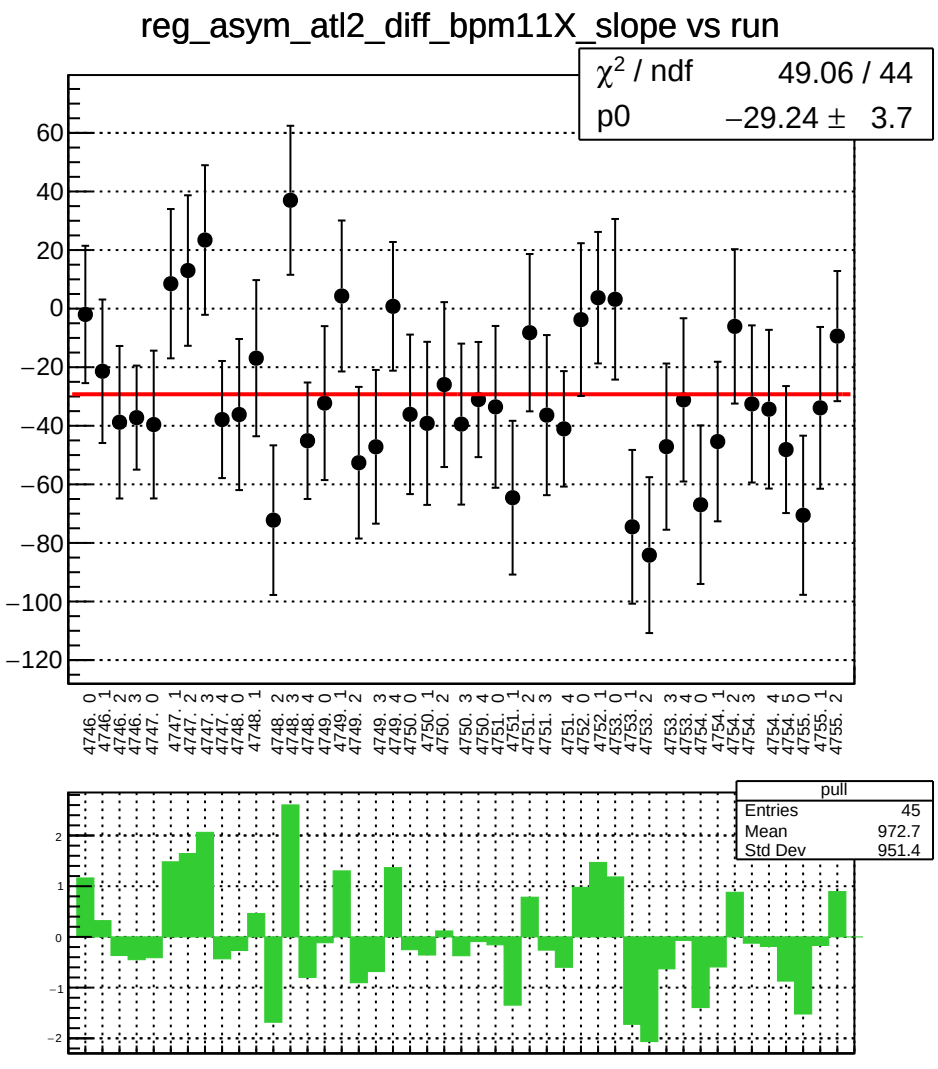

pull1D
Entries 45
Mean 0.001449
Std Dev 1

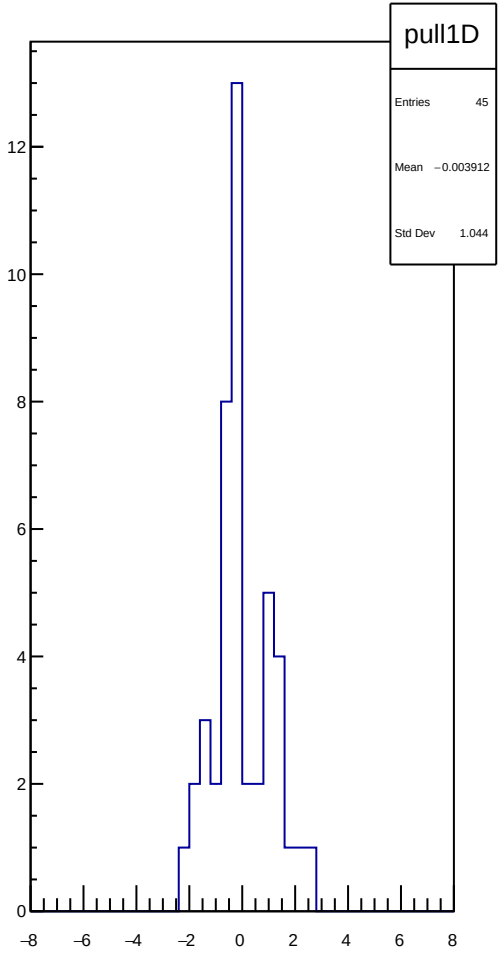

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 29.01 / 44
p0 −92.05 ± 2.398
pull
Entries 45
Mean −126.4
Std Dev 154.3

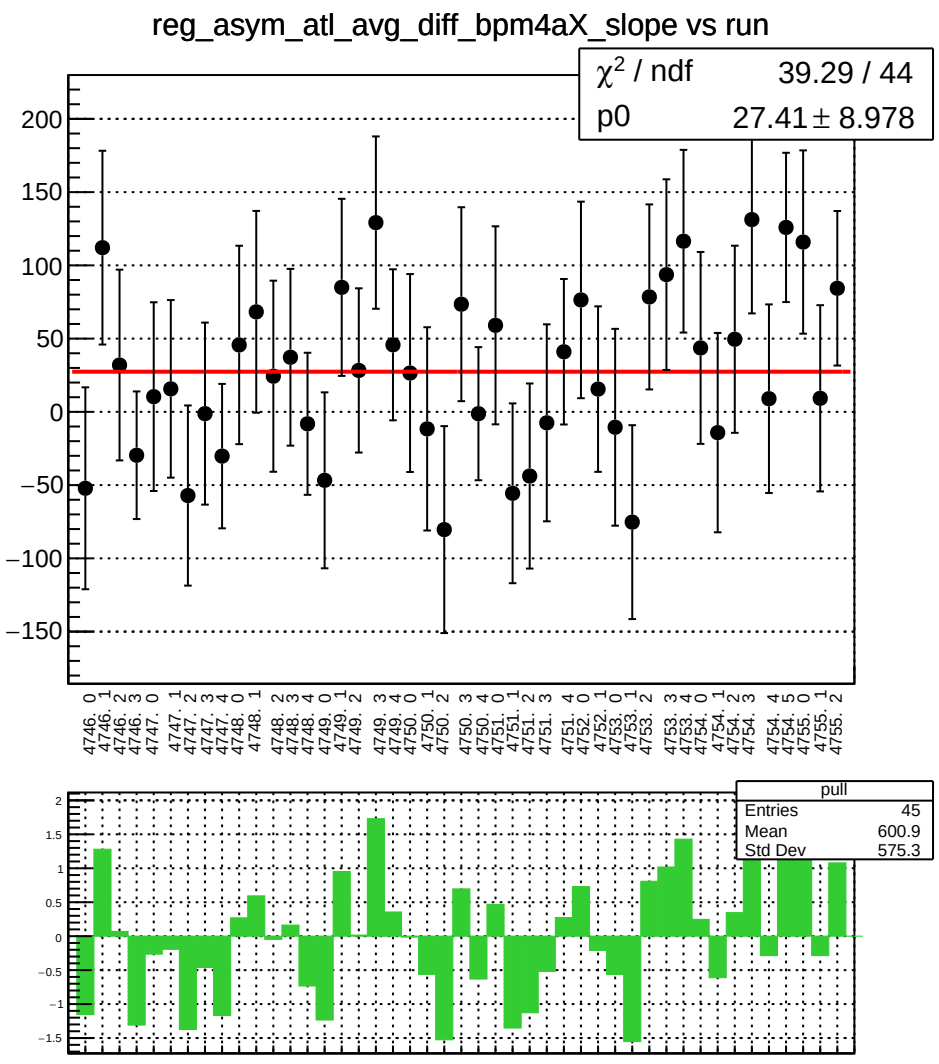

pull1D
Entries 45
Mean 0.01267
Std Dev 0.8028

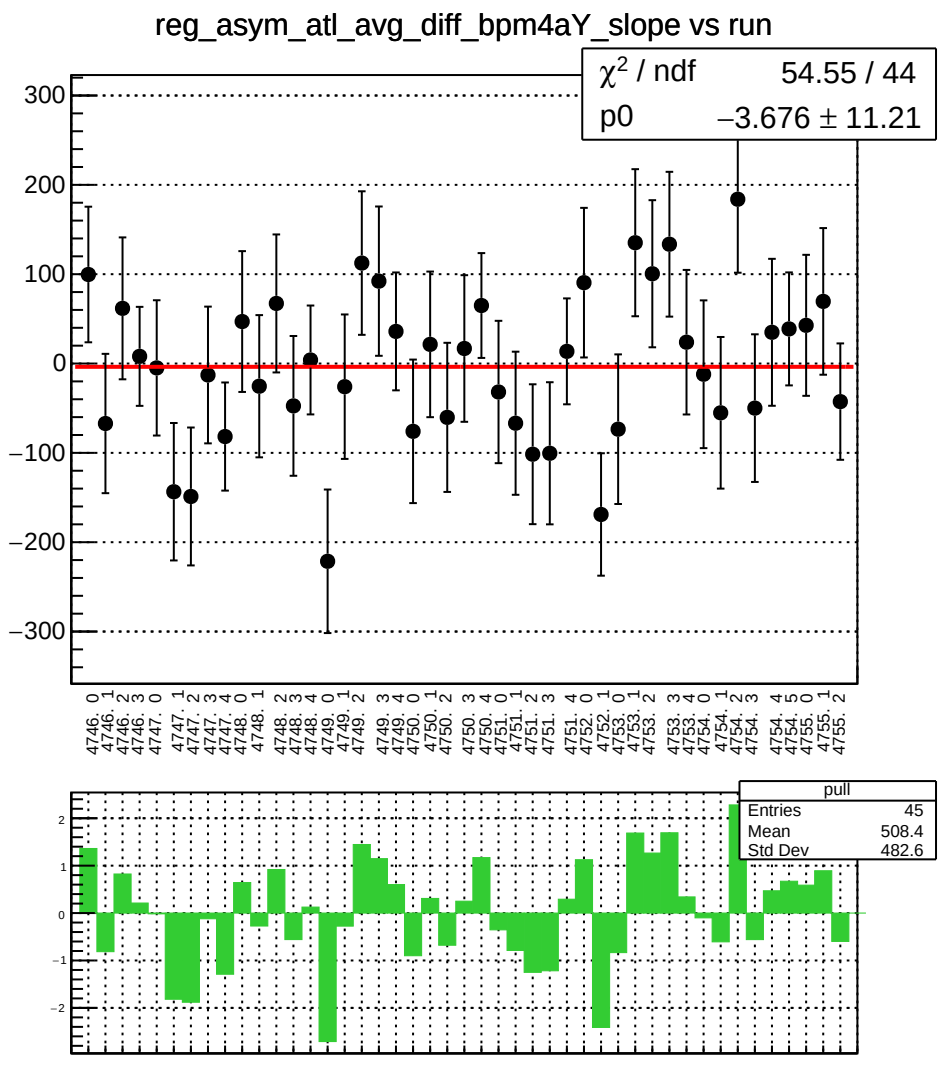

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 44.6 / 44
p0 11.6 ± 17.33
400
300
200
100
0
−100
−200
−300
−400
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −501.1
Std Dev 527.5
3
2
1
0
−1
−2

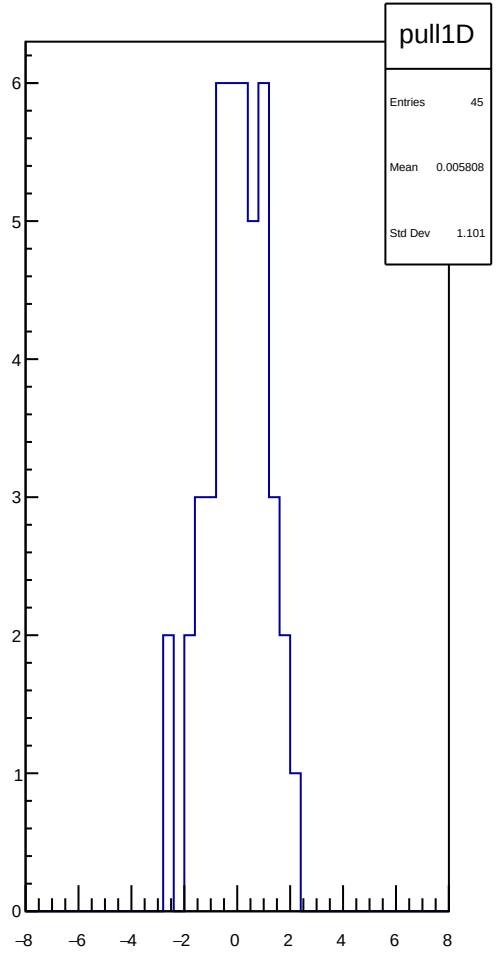

pull1D
Entries 45
Mean 0.003394
Std Dev 0.9955
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

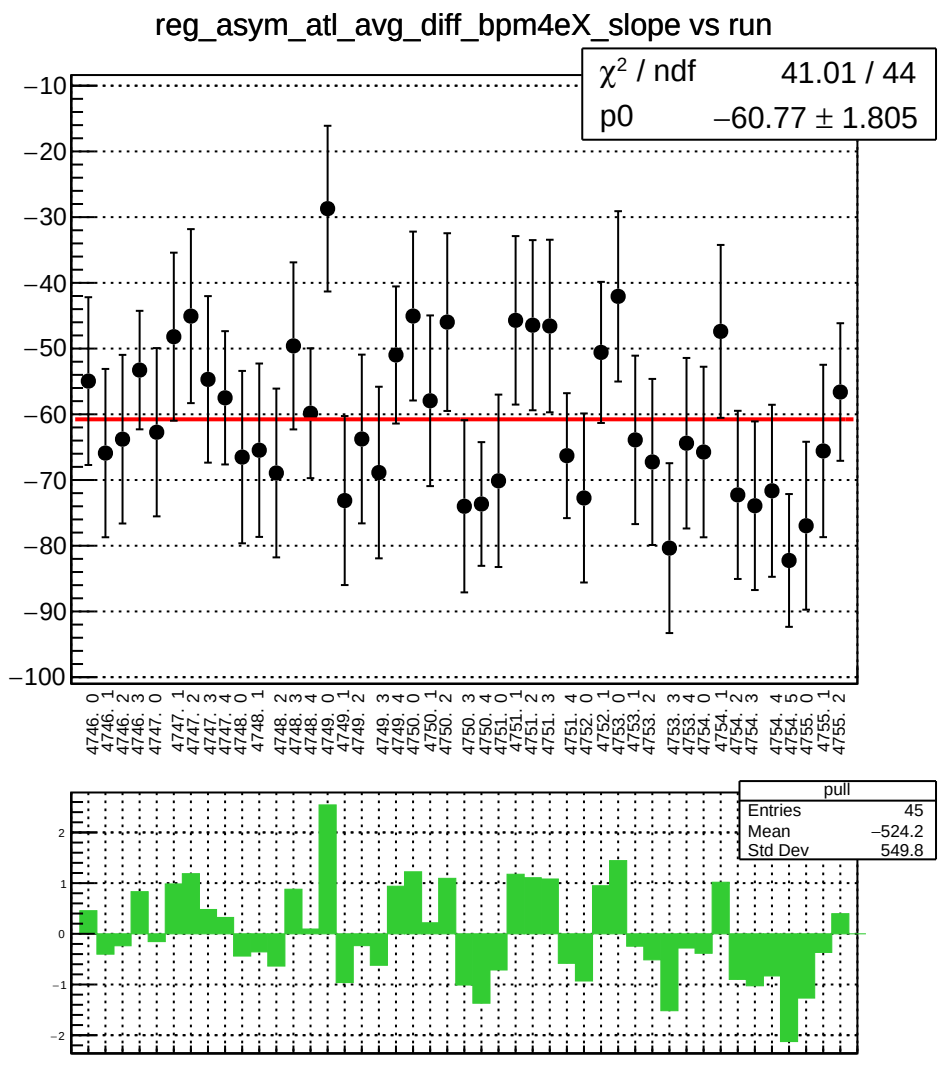

reg_asym_atl2_diff_bpm11X_slope vs run
χ² / ndf 49.06 / 44
p0 −29.24 ± 3.7
pull
Entries 45
Mean 972.7
Std Dev 951.4

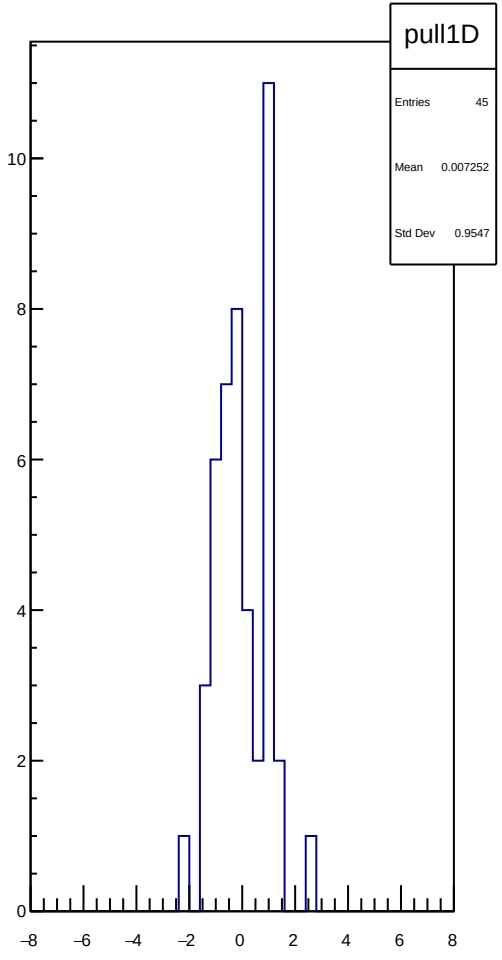

pull1D
Entries 45
Mean −0.003912
Std Dev 1.044

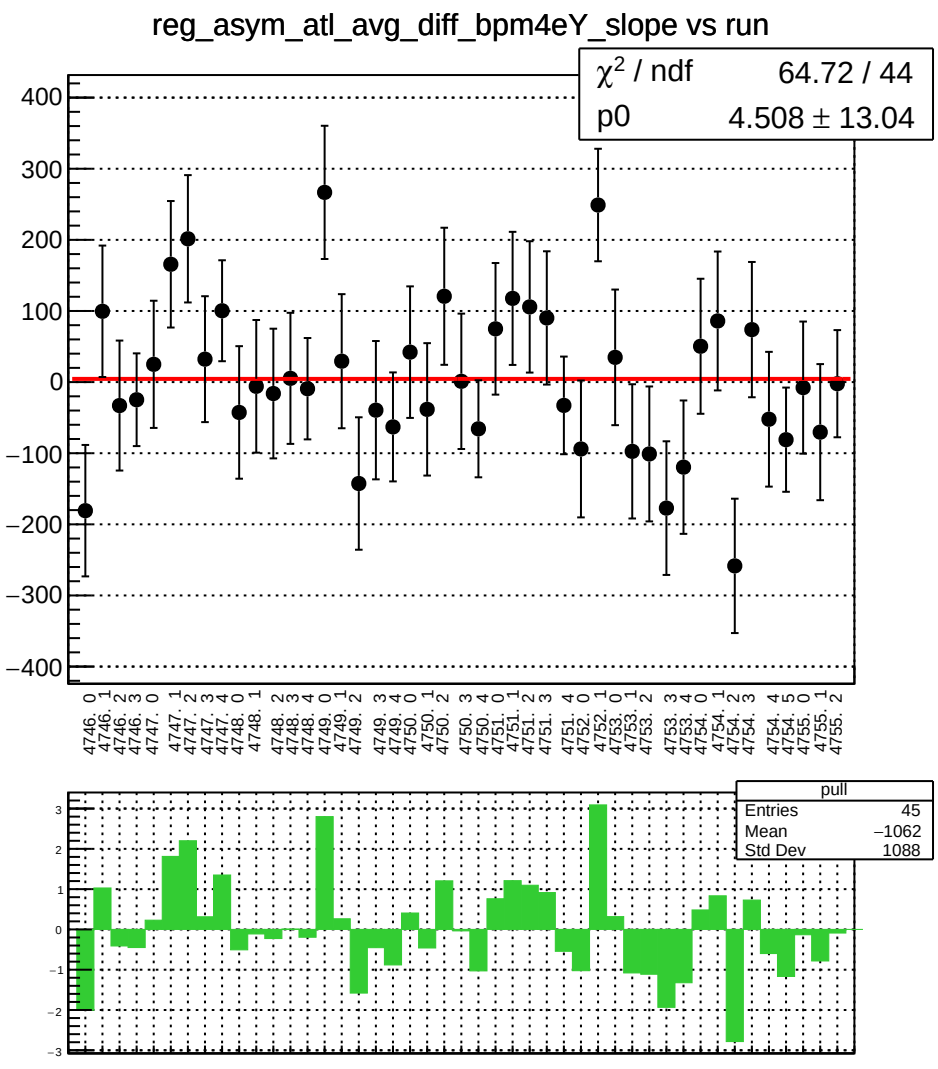

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 39.29 / 44
p0 27.41 ± 8.978
200
150
100
50
0
−50
−100
−150
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 600.9
Std Dev 575.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.007078
Std Dev 0.9344
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

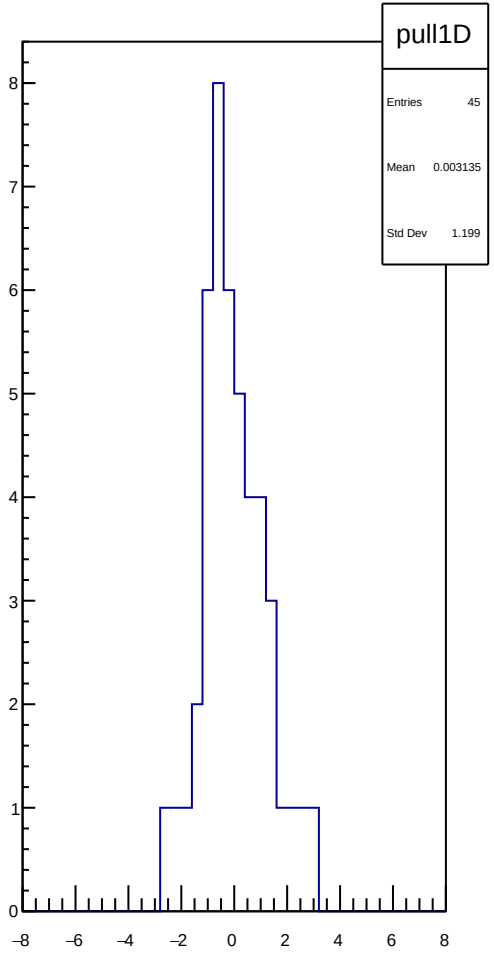

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 54.55 / 44
p0 −3.676 ± 11.21
pull
Entries 45
Mean 508.4
Std Dev 482.6

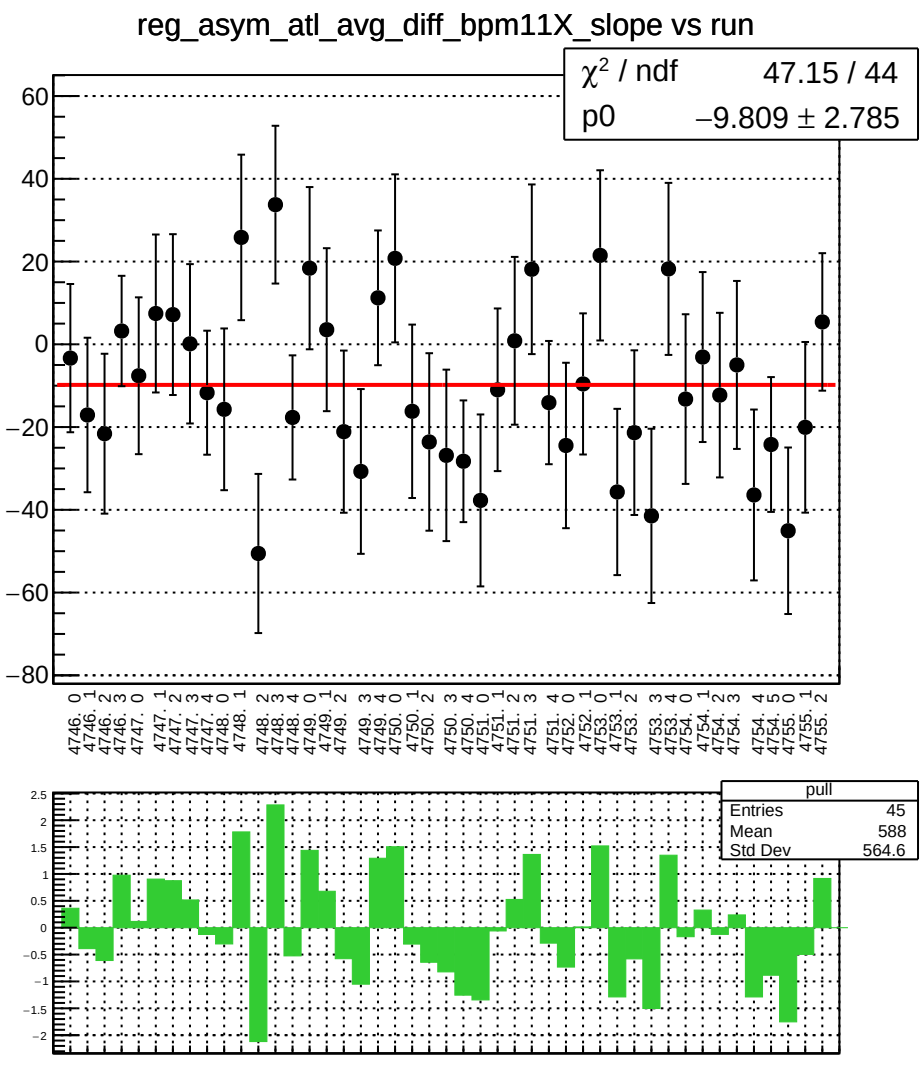

pull1D
Entries 45
Mean 0.005808
Std Dev 1.101

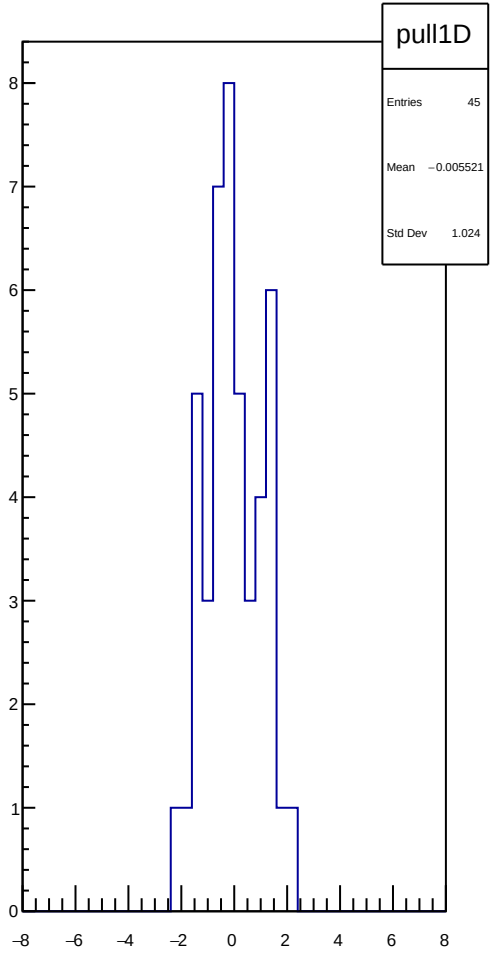

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 41.01 / 44
p0 −60.77 ± 1.805
pull
Entries 45
Mean −524.2
Std Dev 549.8

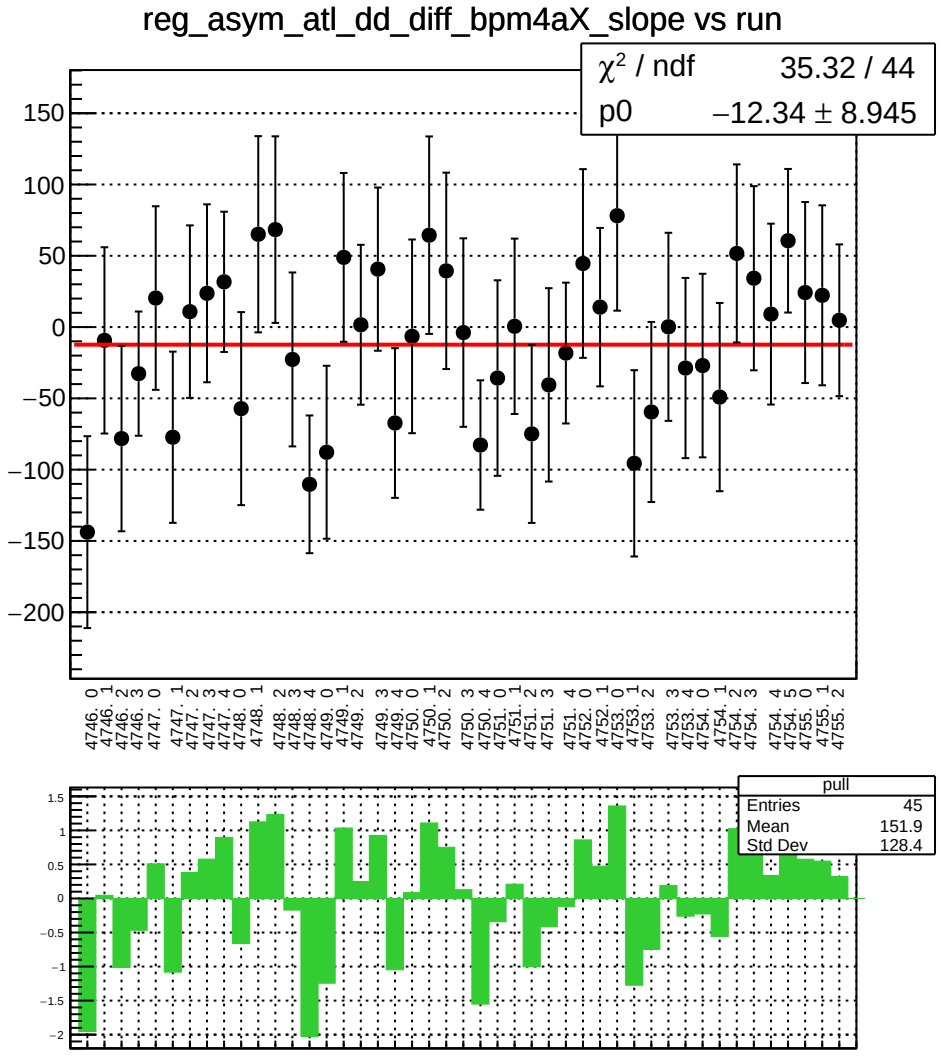

pull1D
Entries 45
Mean 0.007252
Std Dev 0.9547

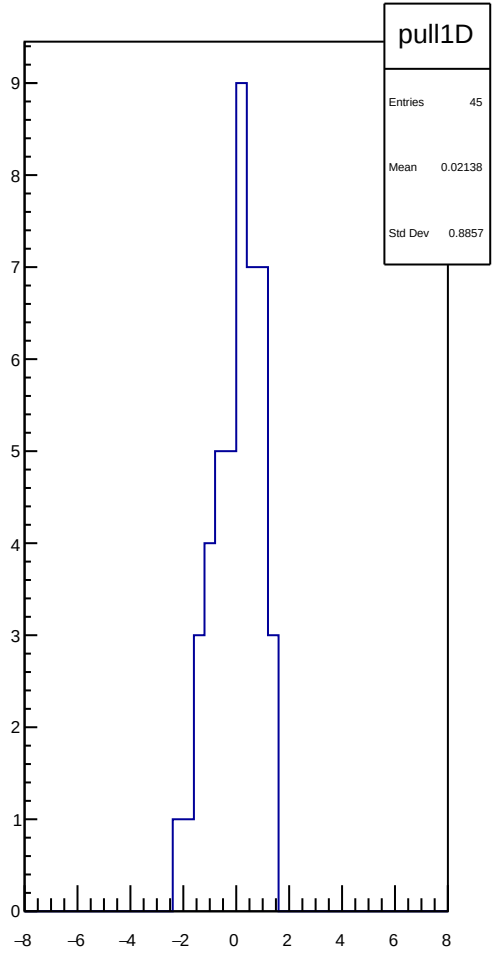

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 64.72 / 44
p0 4.508 ± 13.04
pull
Entries 45
Mean −1062
Std Dev 1088

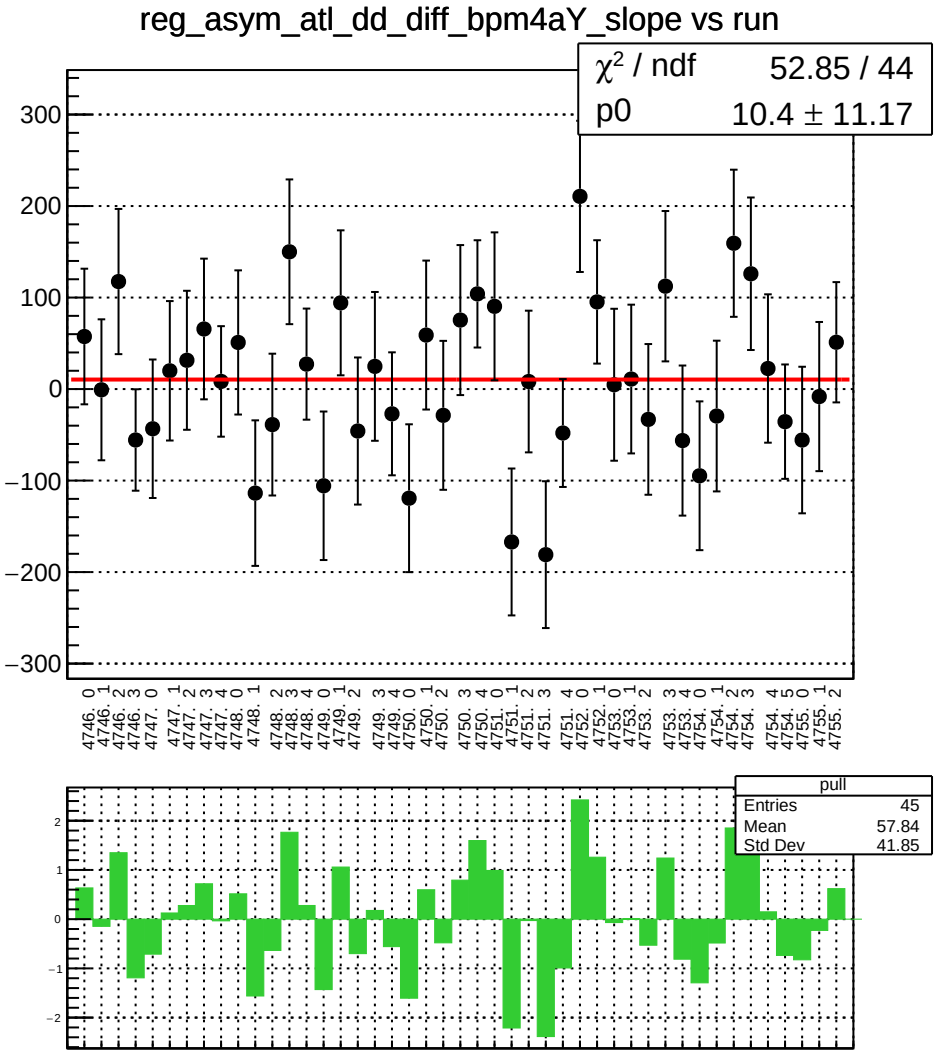

pull1D
Entries 45
Mean 0.003135
Std Dev 1.199

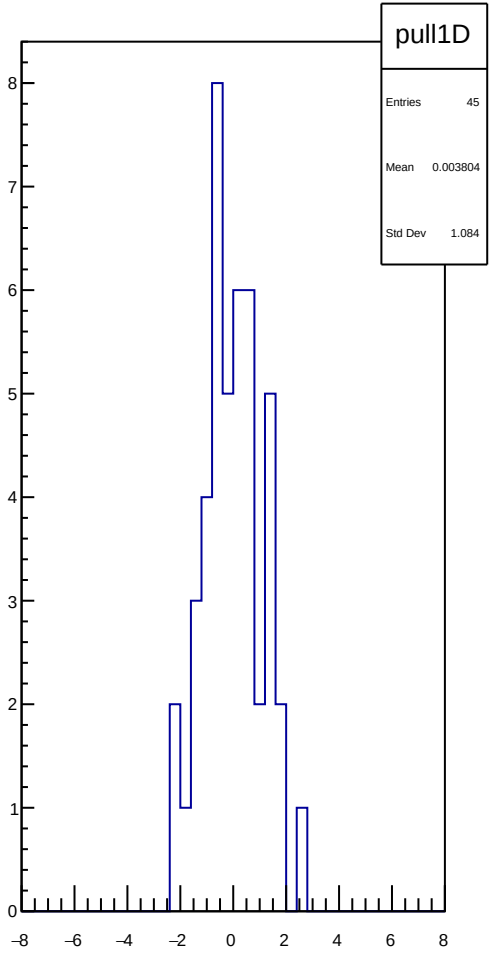

reg_asym_atl_avg_diff_bpm11X_slope vs run
χ² / ndf 47.15 / 44
p0 −9.809 ± 2.785
pull
Entries 45
Mean 588
Std Dev 564.6

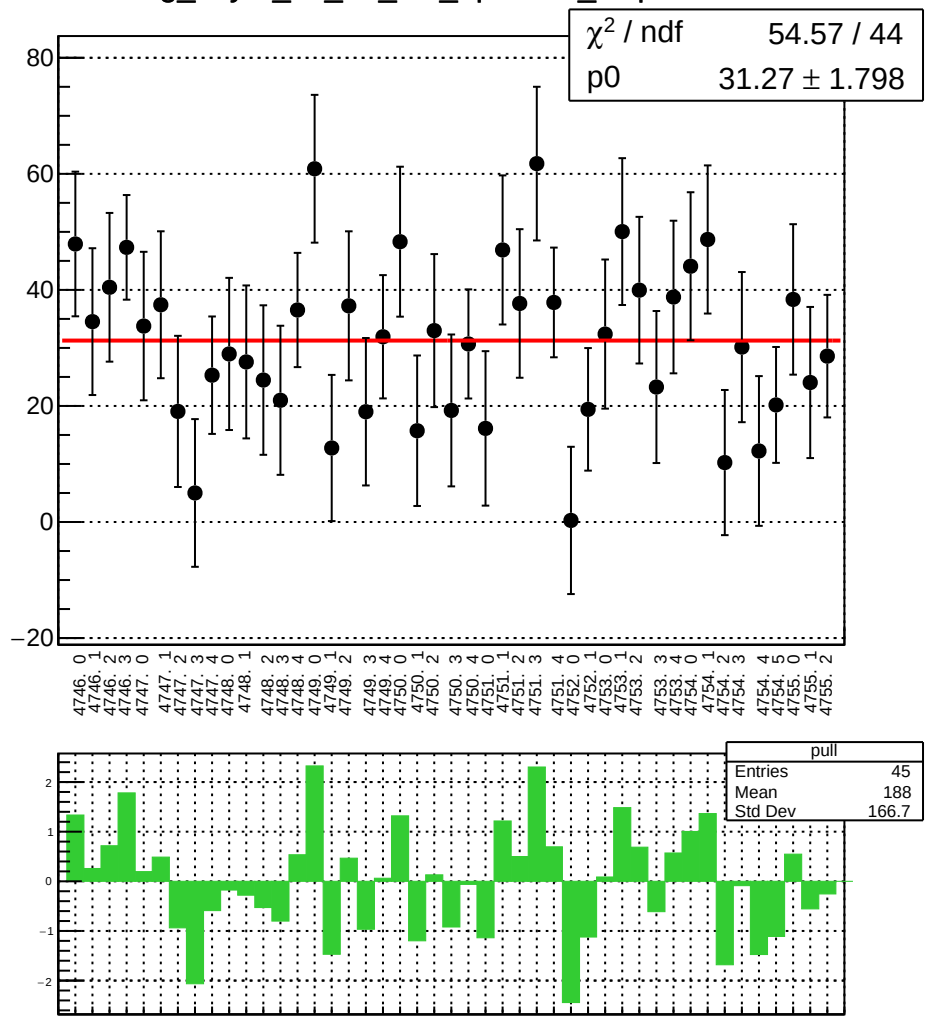

pull1D
Entries 45
Mean −0.005521
Std Dev 1.024

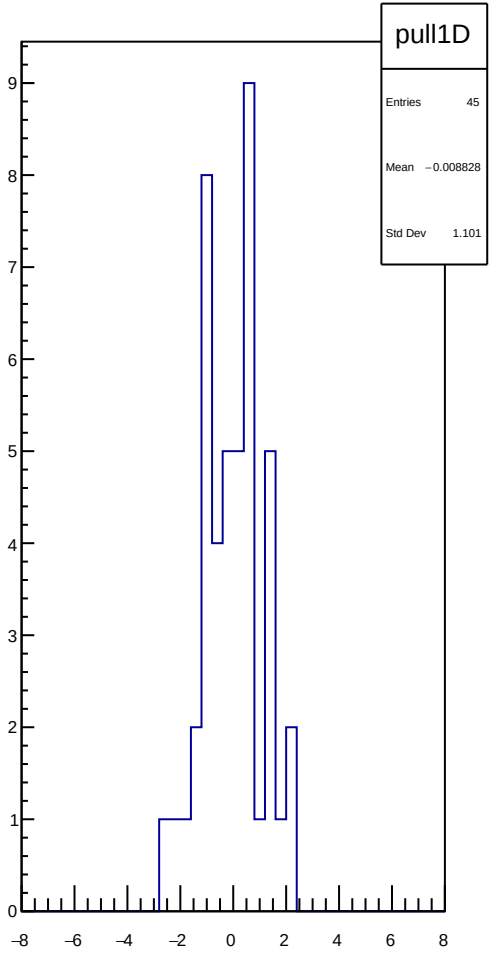

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 35.32 / 44
p0 −12.34 ± 8.945
pull
Entries 45
Mean 151.9
Std Dev 128.4

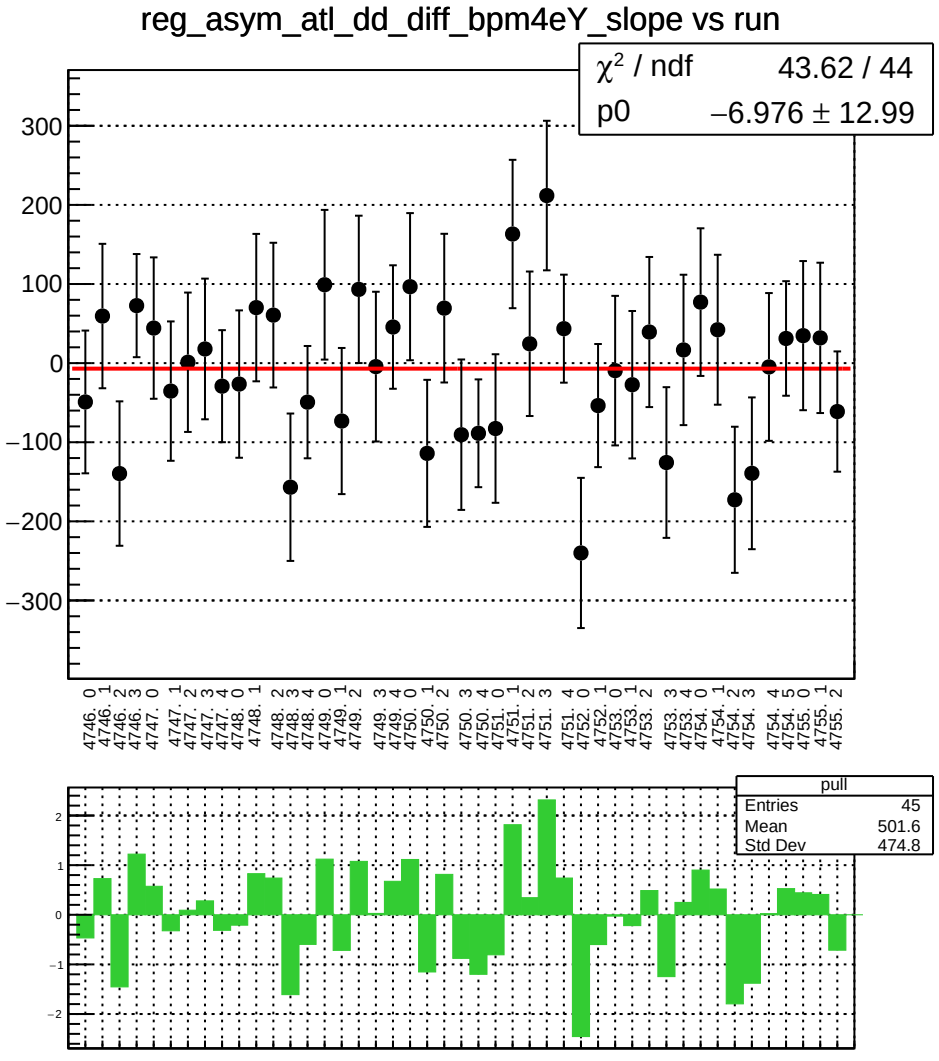

pull1D
Entries 45
Mean 0.02138
Std Dev 0.8857

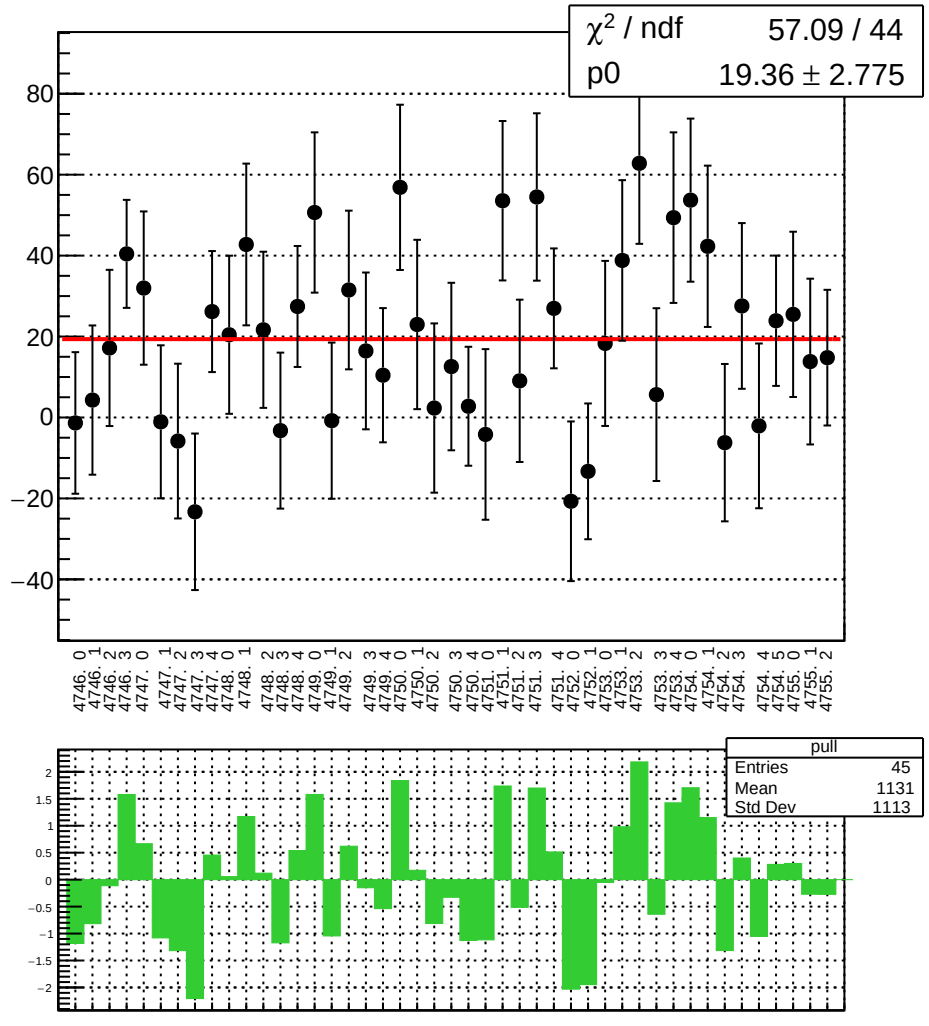

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 52.85 / 44
p0 10.4 ± 11.17
pull
Entries 45
Mean 57.84
Std Dev 41.85

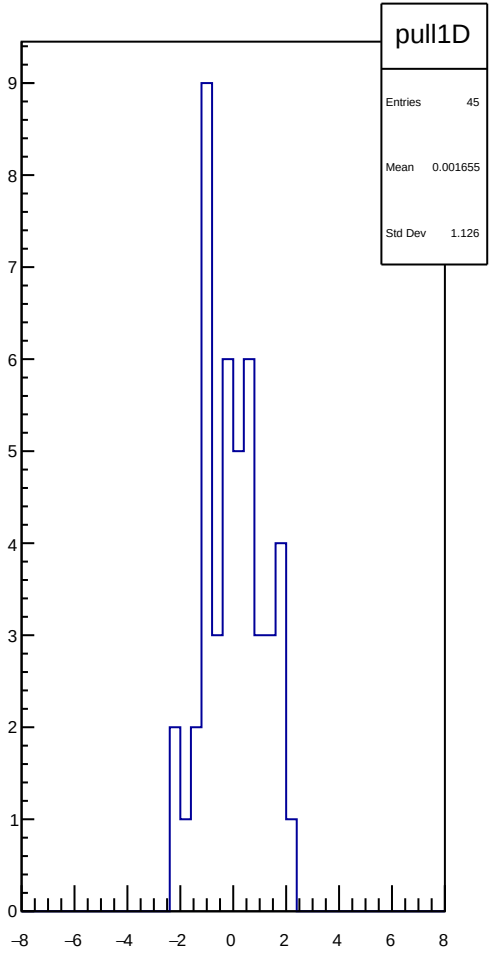

pull1D
Entries 45
Mean 0.003804
Std Dev 1.084

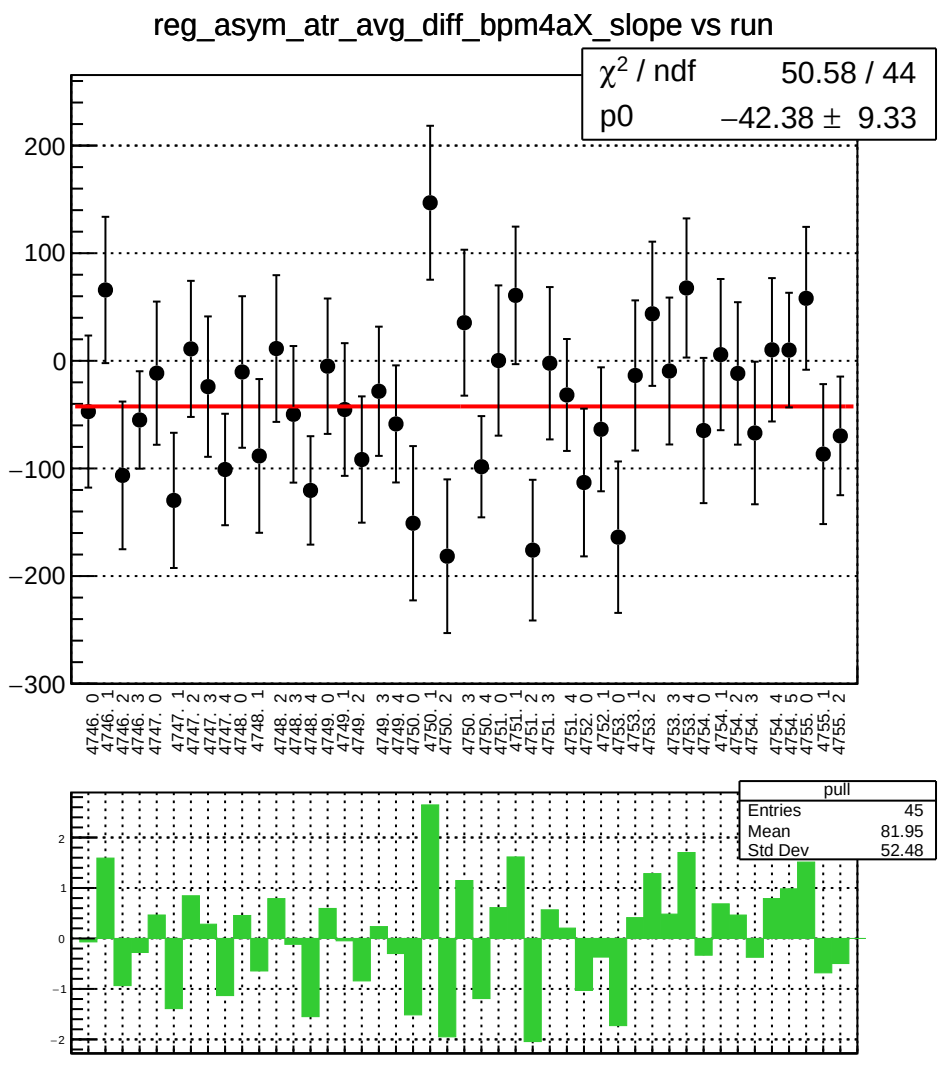

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 54.57 / 44
p0 31.27 ± 1.798
pull
Entries 45
Mean 188
Std Dev 166.7

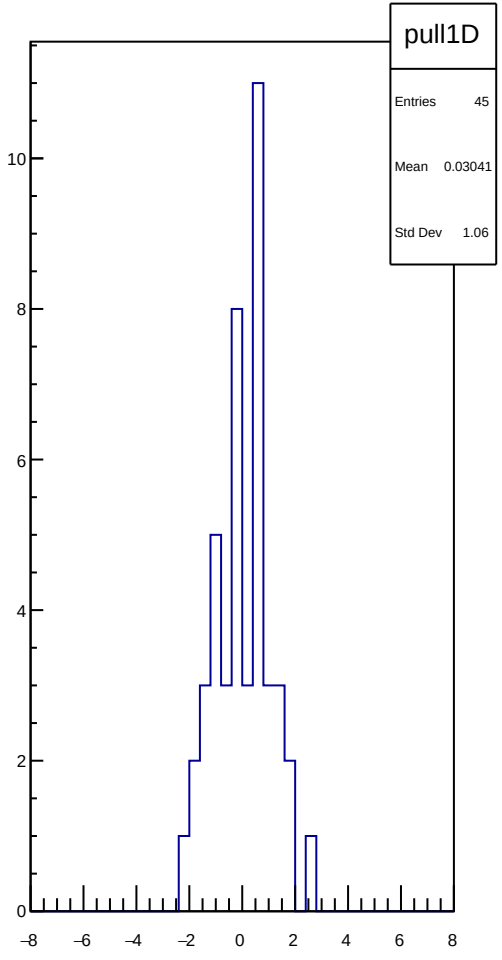

pull1D
Entries 45
Mean −0.008828
Std Dev 1.101

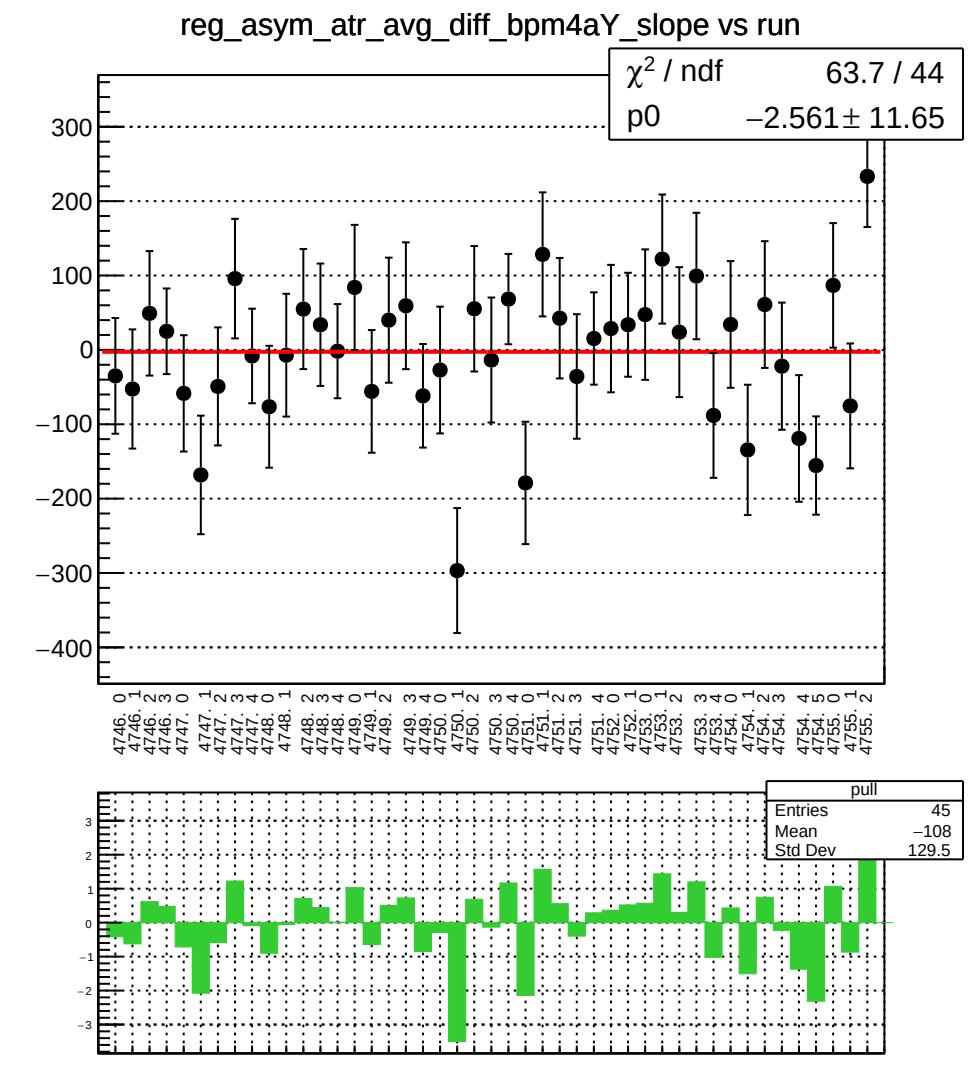

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.62 / 44
p0 −6.976 ± 12.99
300
200
100
0
−100
−200
−300
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 501.6
Std Dev 474.8
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.002069
Std Dev 0.9846
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

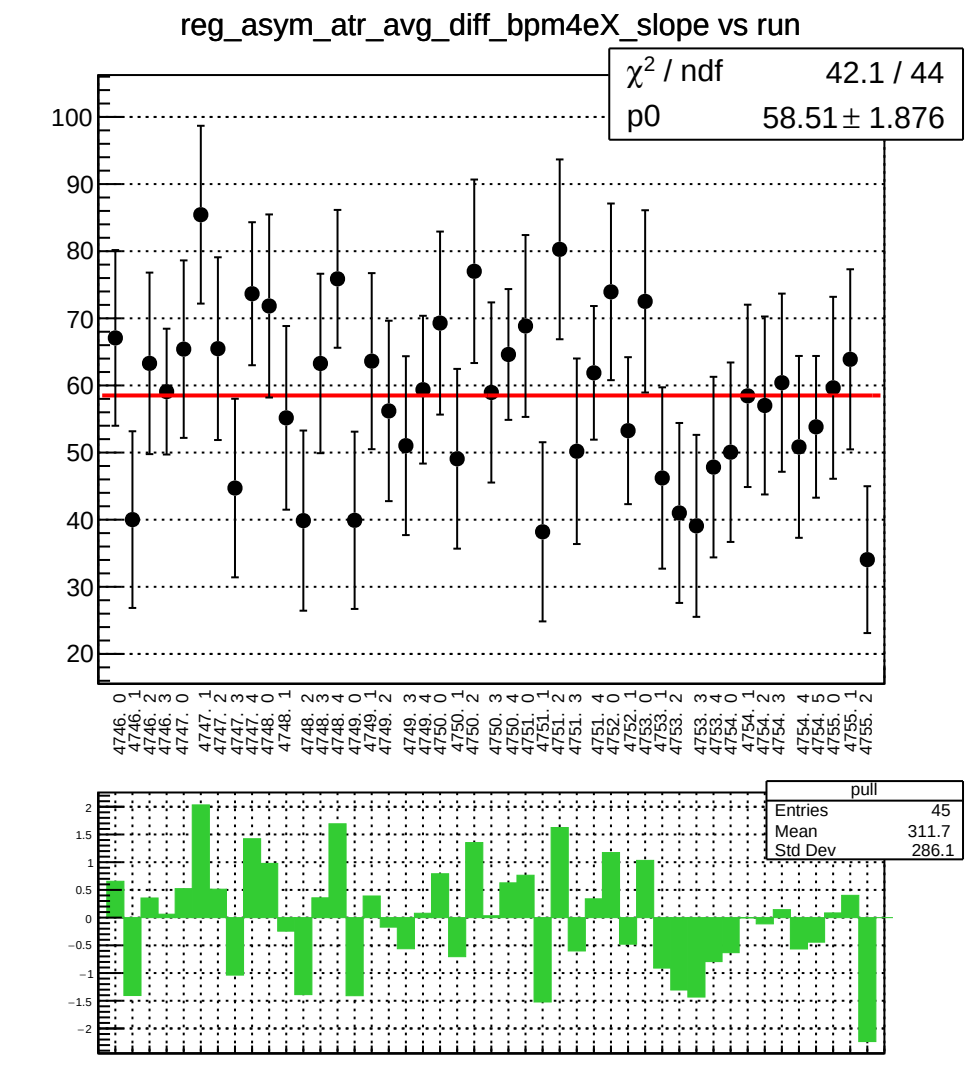

reg_asym_atl_dd_diff_bpm11X_slope vs run
χ² / ndf 57.09 / 44
p0 19.36 ± 2.775
pull
Entries 45
Mean 1131
Std Dev 1113

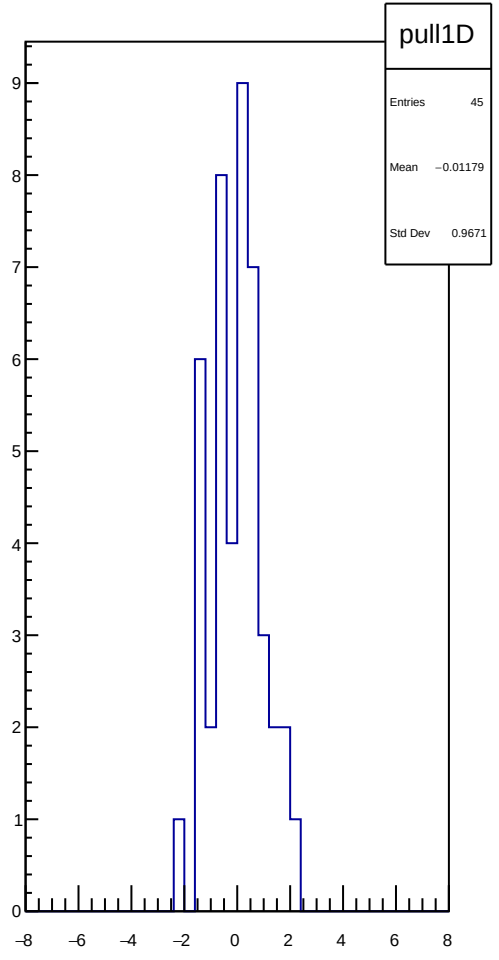

pull1D
Entries 45
Mean 0.001655
Std Dev 1.126

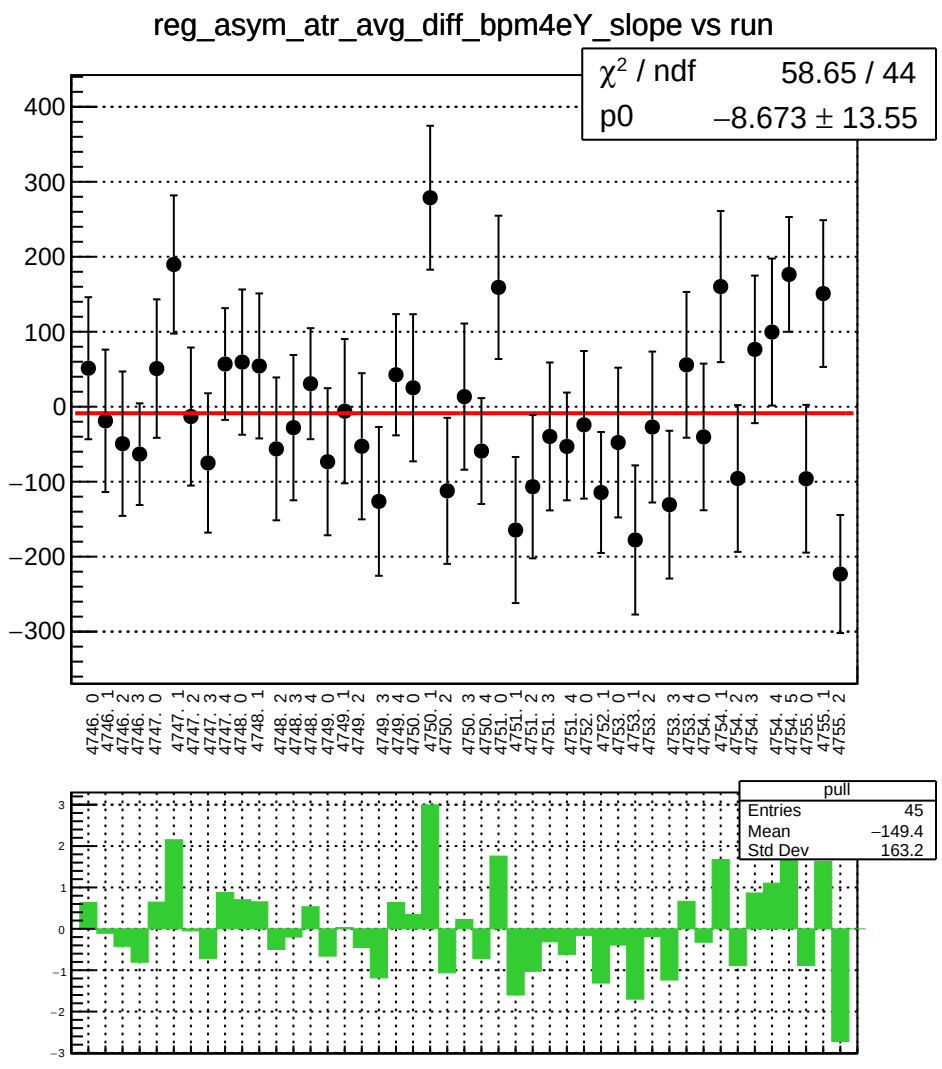

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 50.58 / 44
p0 −42.38 ± 9.33
200
100
0
−100
−200
−300
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 81.95
Std Dev 52.48
2
1
0
−1
−2

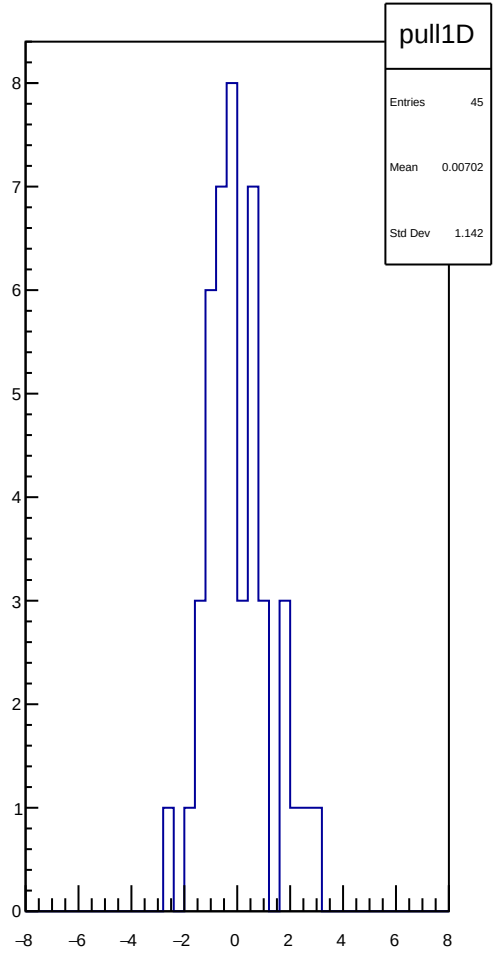

pull1D
Entries 45
Mean 0.03041
Std Dev 1.06
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

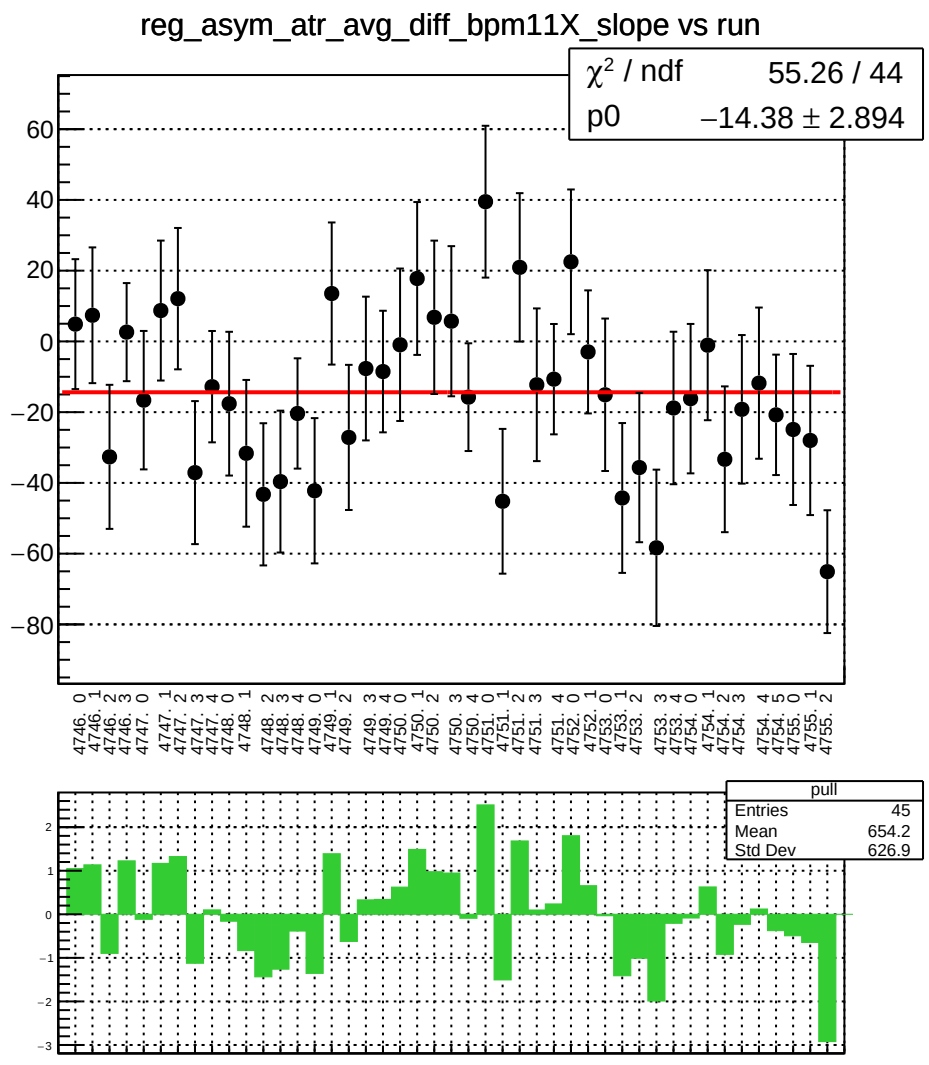

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 63.7 / 44
p0 −2.561 ± 11.65
300
200
100
0
−100
−200
−300
−400
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −108
Std Dev 129.5
3
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01328
Std Dev 1.19
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

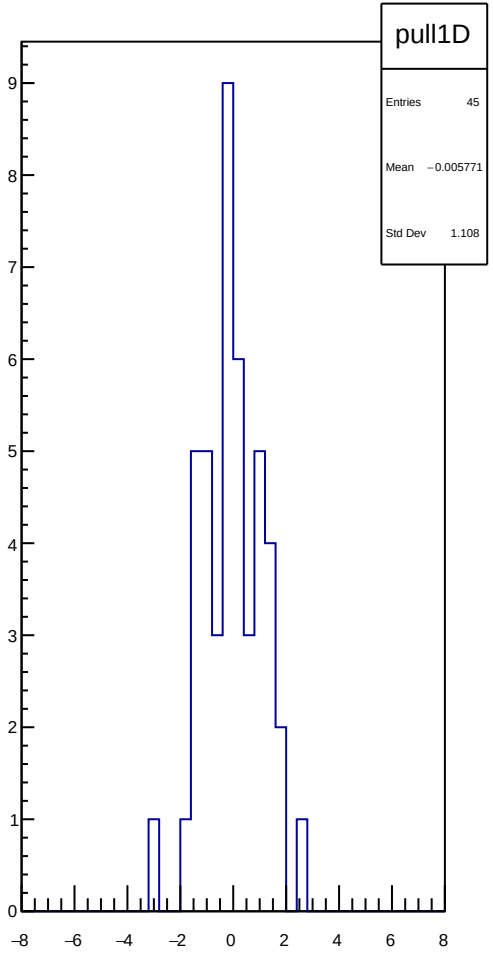

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.1 / 44
p0 58.51 ± 1.876
pull
Entries 45
Mean 311.7
Std Dev 286.1

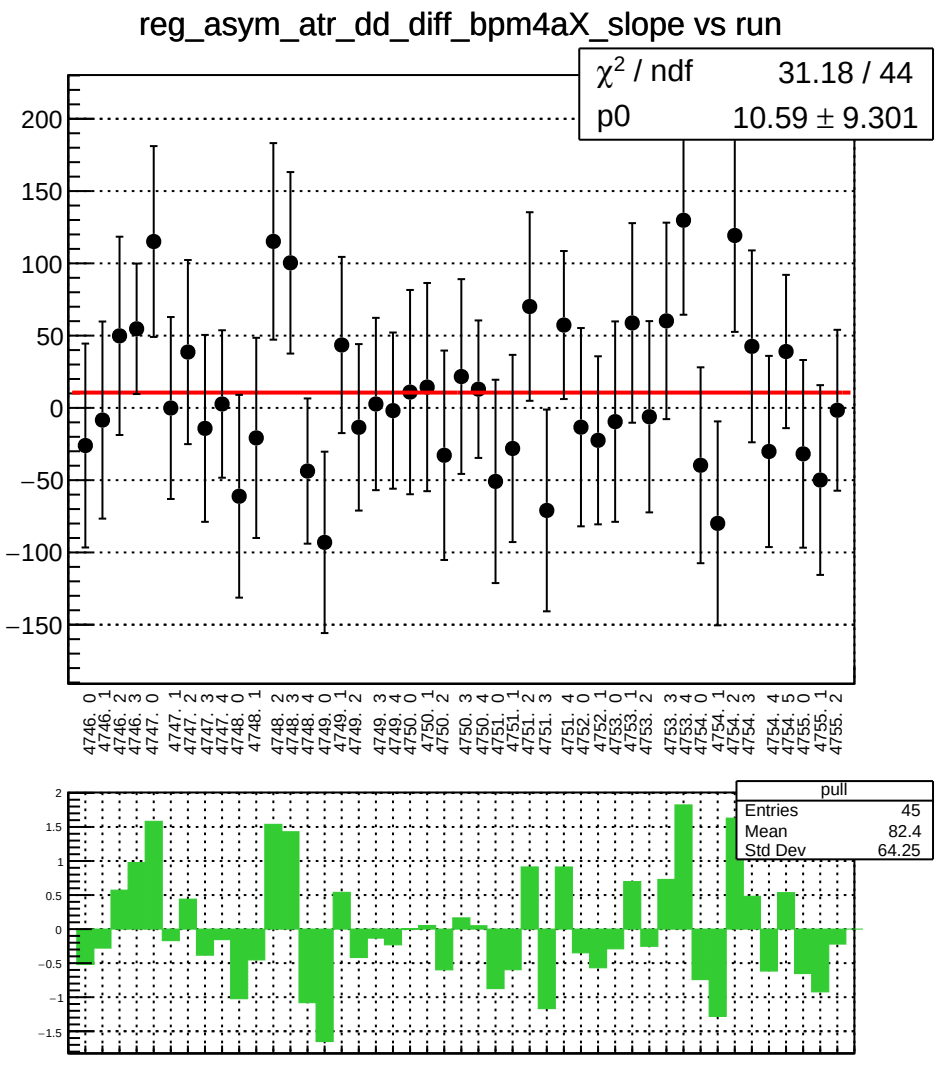

pull1D
Entries 45
Mean −0.01179
Std Dev 0.9671

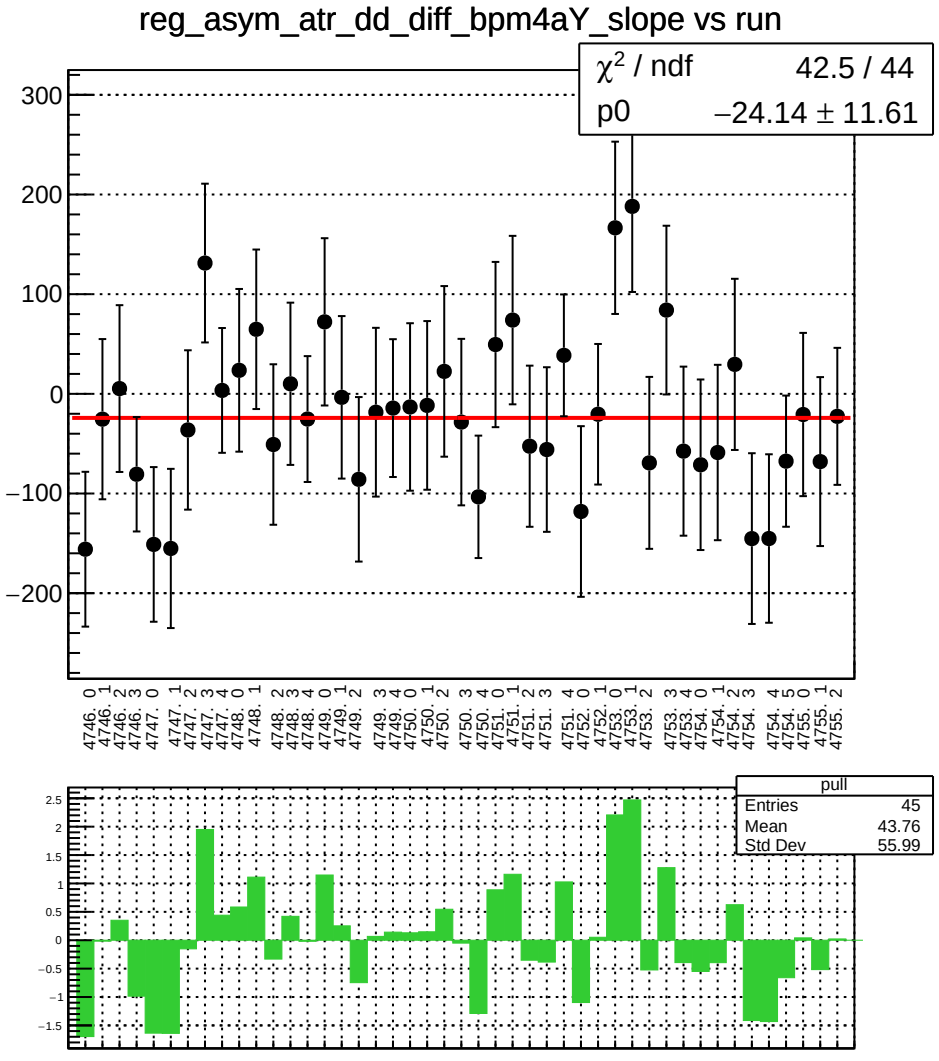

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.65 / 44
p0 −8.673 ± 13.55
pull
Entries 45
Mean −149.4
Std Dev 163.2

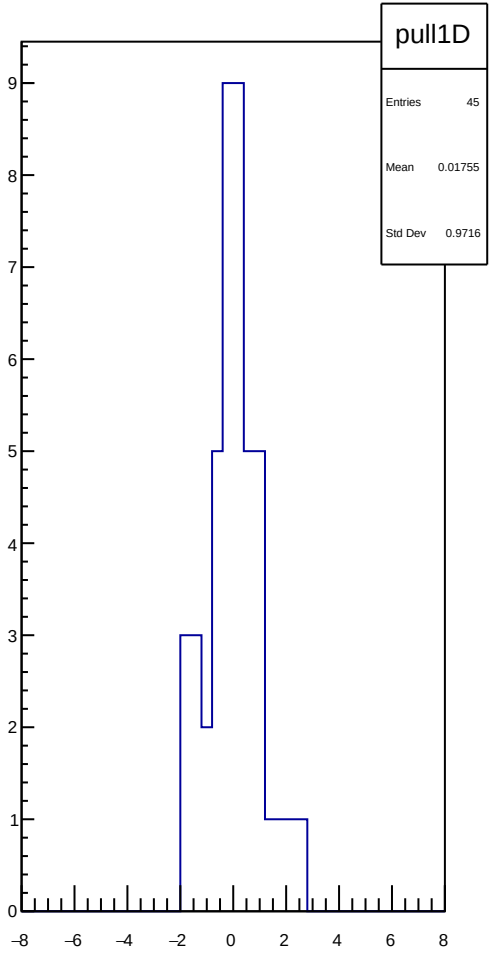

pull1D
Entries 45
Mean 0.00702
Std Dev 1.142

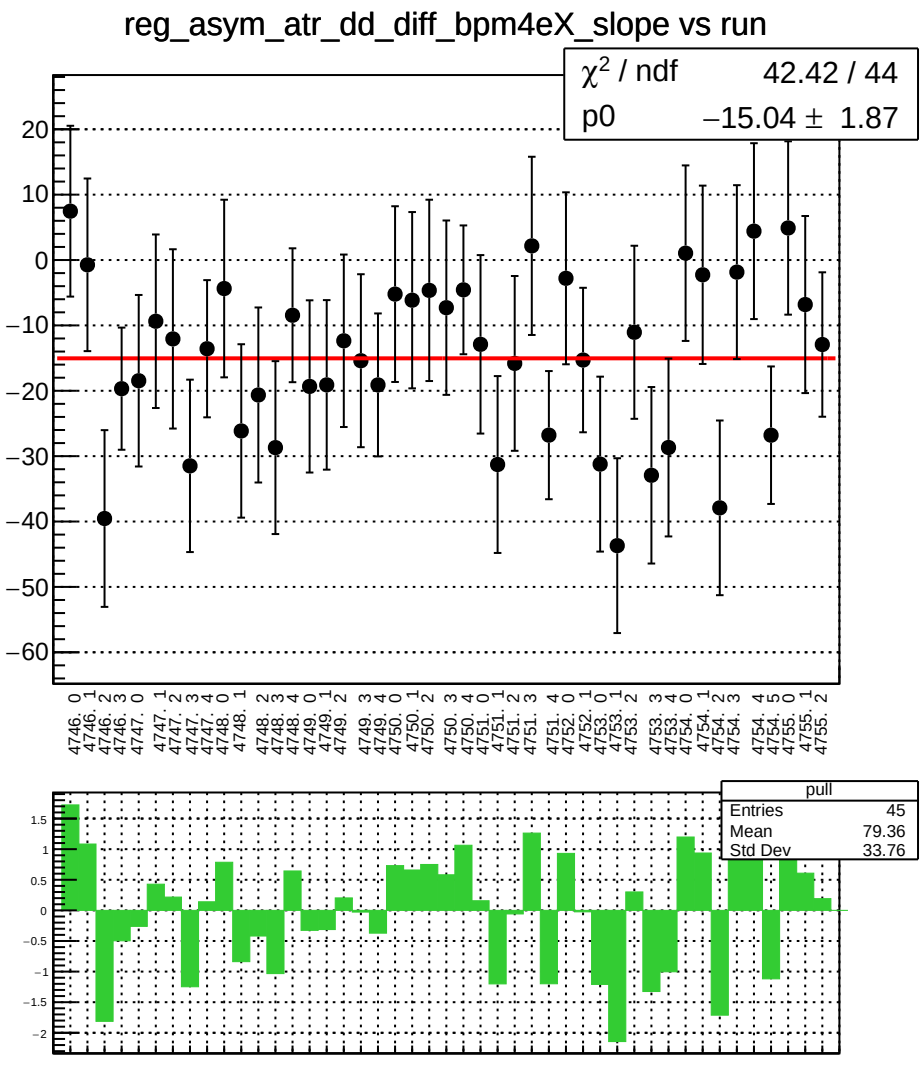

reg_asym_atr_avg_diff_bpm11X_slope vs run
χ² / ndf 55.26 / 44
p0 −14.38 ± 2.894
pull
Entries 45
Mean 654.2
Std Dev 626.9

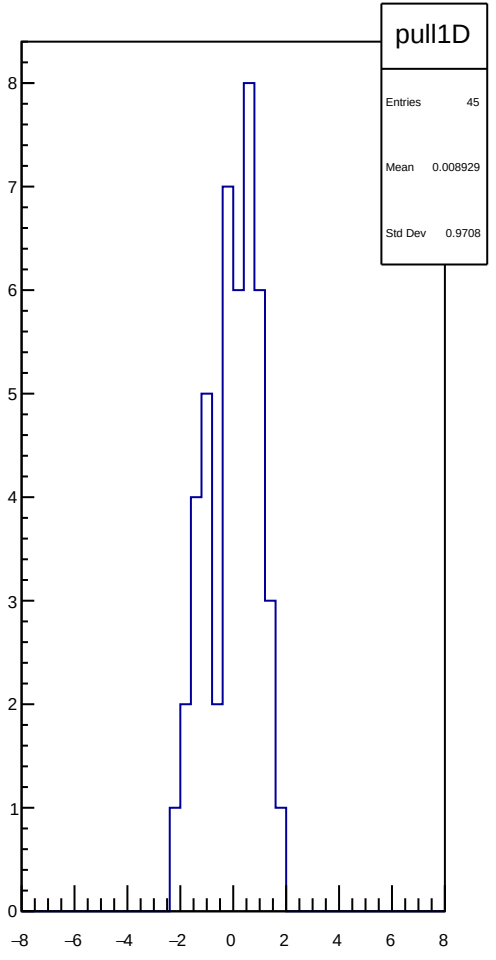

pull1D
Entries 45
Mean −0.005771
Std Dev 1.108

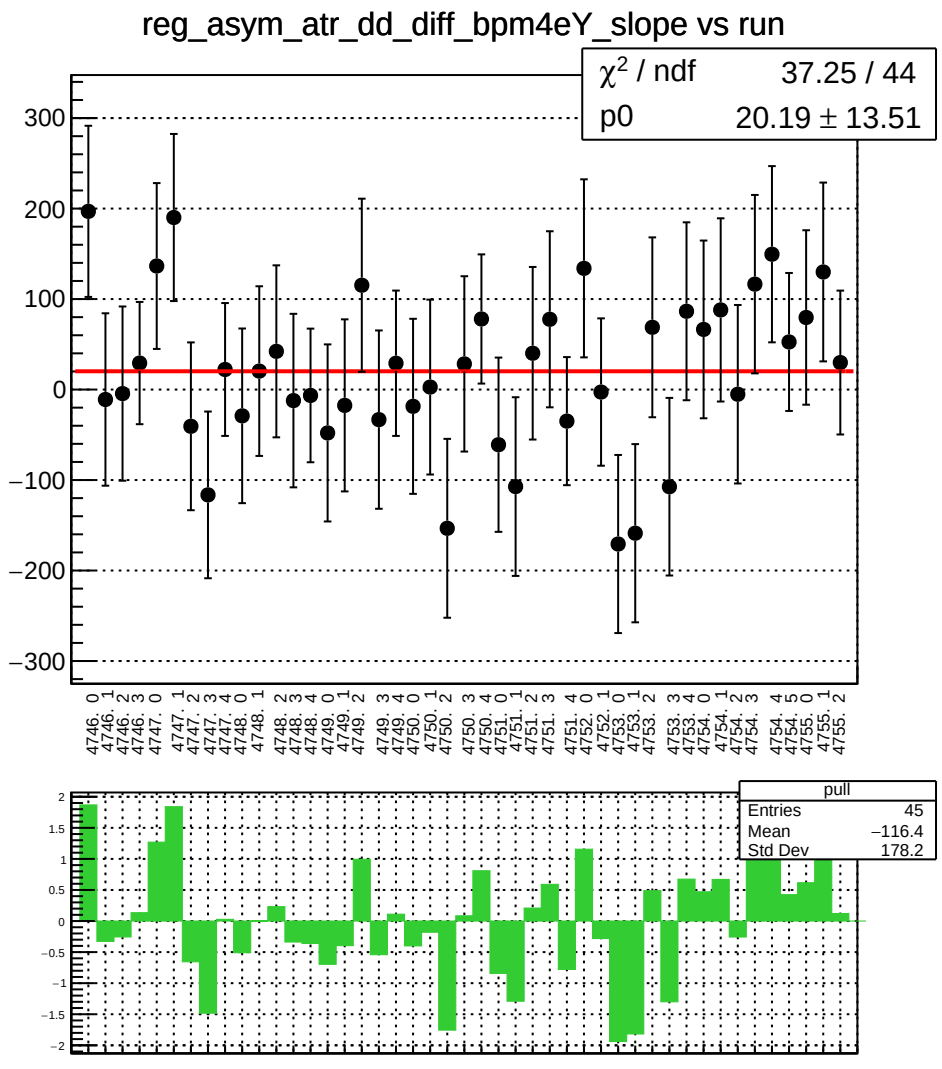

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 31.18 / 44
p0 10.59 ± 9.301
200
150
100
50
0
−50
−100
−150
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 82.4
Std Dev 64.25
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.0122
Std Dev 0.8323
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

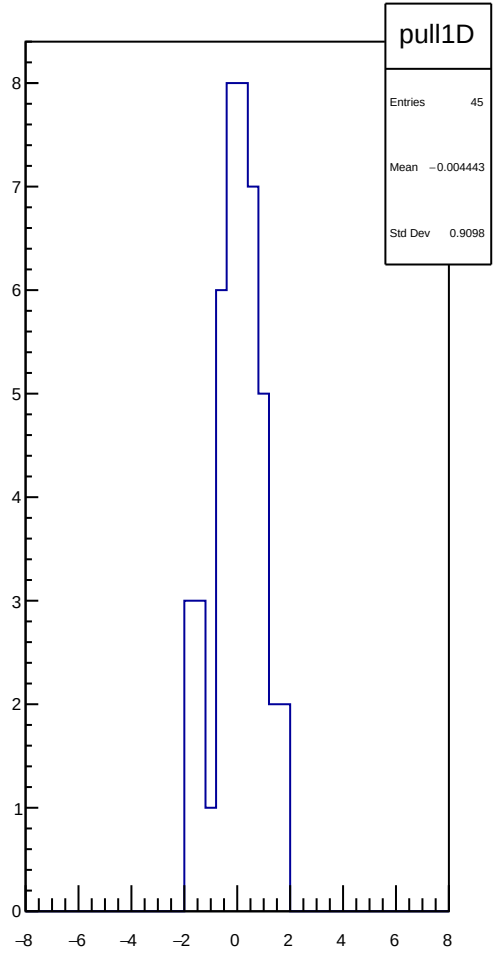

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 42.5 / 44
p0 −24.14 ± 11.61
pull
Entries 45
Mean 43.76
Std Dev 55.99

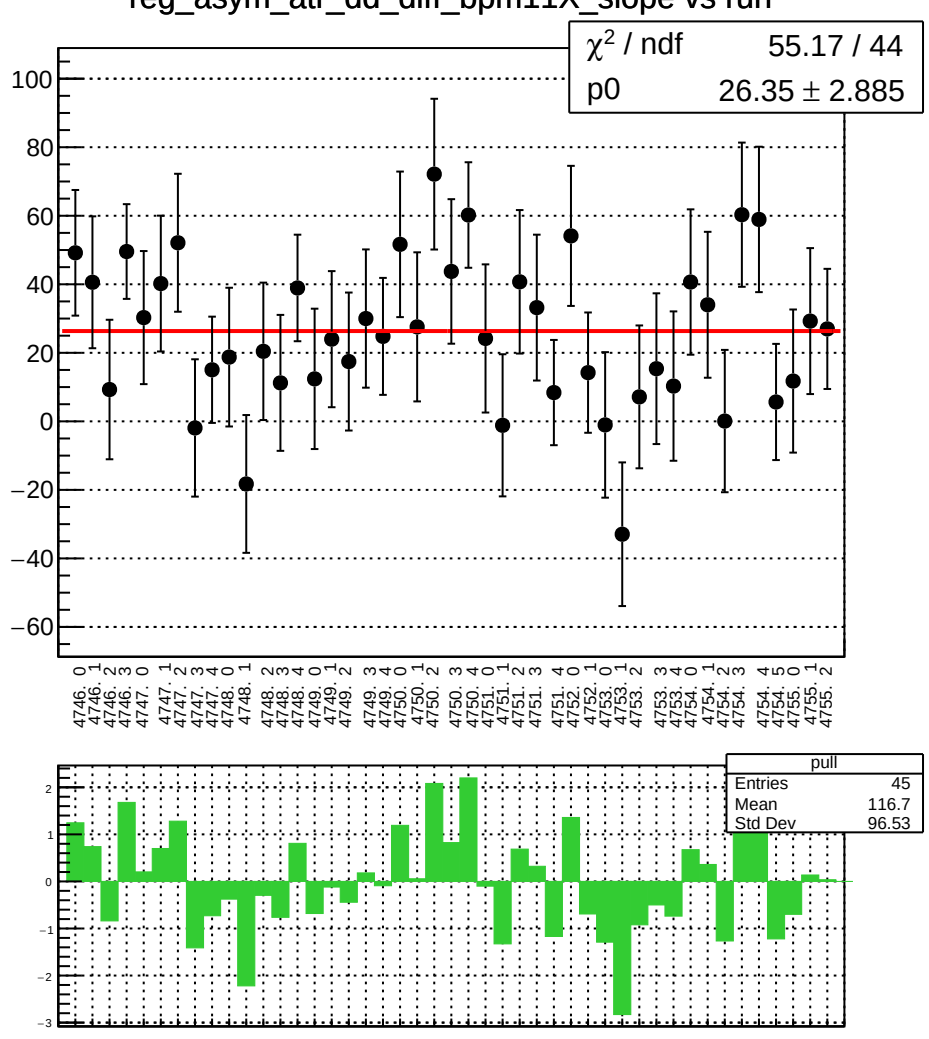

pull1D
Entries 45
Mean 0.01755
Std Dev 0.9716

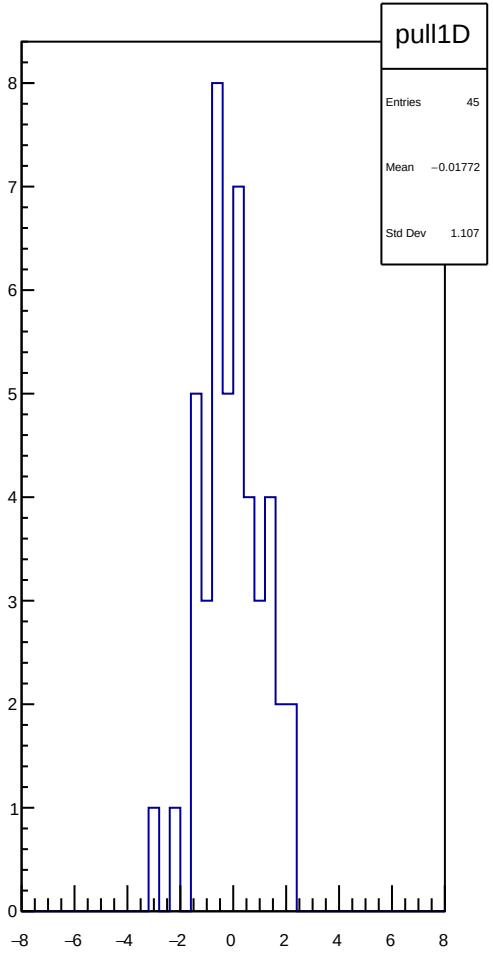

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.42 / 44
p0 −15.04 ± 1.87
pull
Entries 45
Mean 79.36
Std Dev 33.76

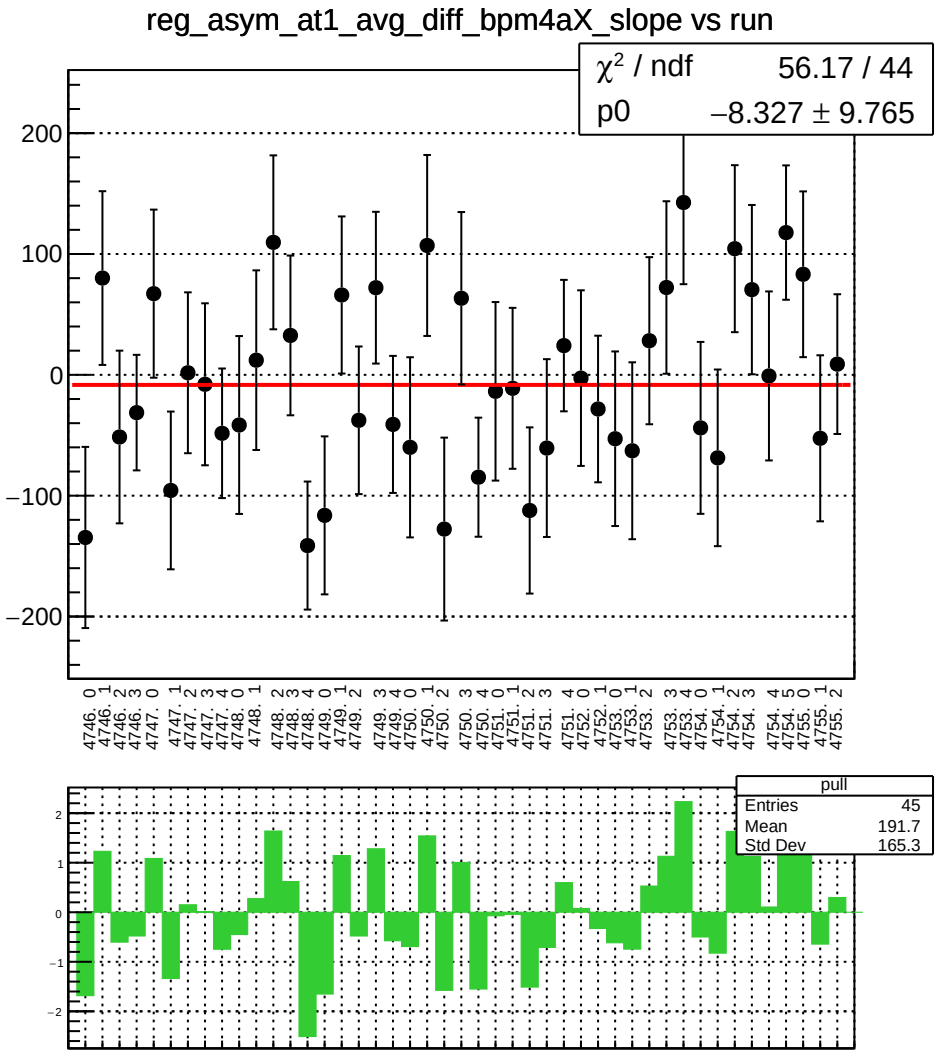

pull1D
Entries 45
Mean 0.008929
Std Dev 0.9708

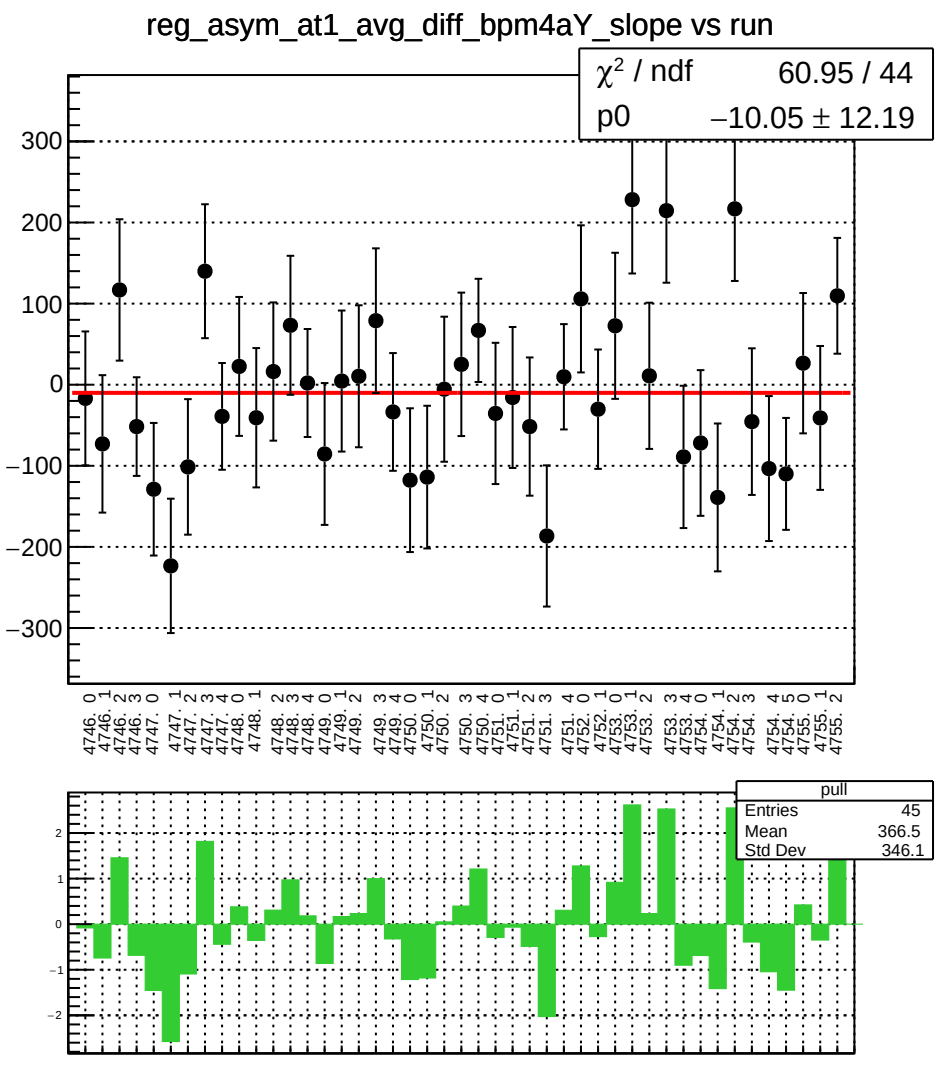

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.25 / 44
p0 20.19 ± 13.51
pull
Entries 45
Mean −116.4
Std Dev 178.2

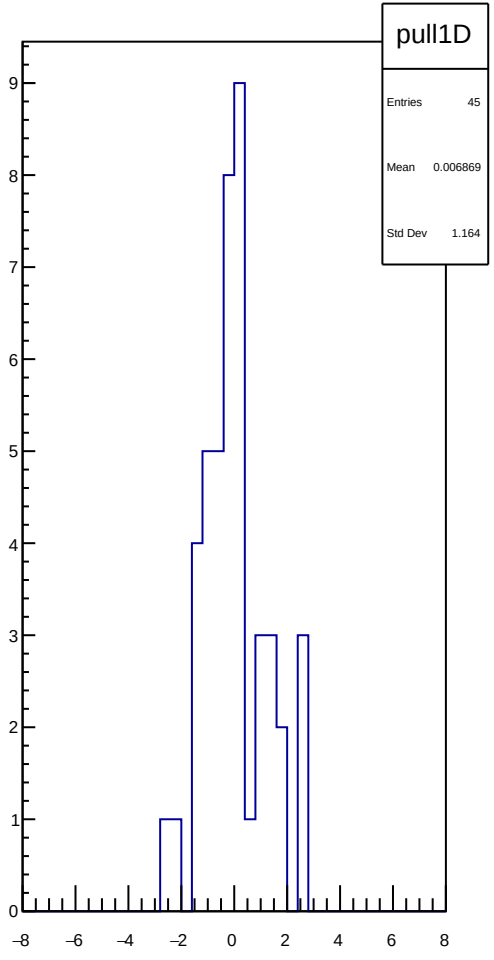

pull1D
Entries 45
Mean −0.004443
Std Dev 0.9098

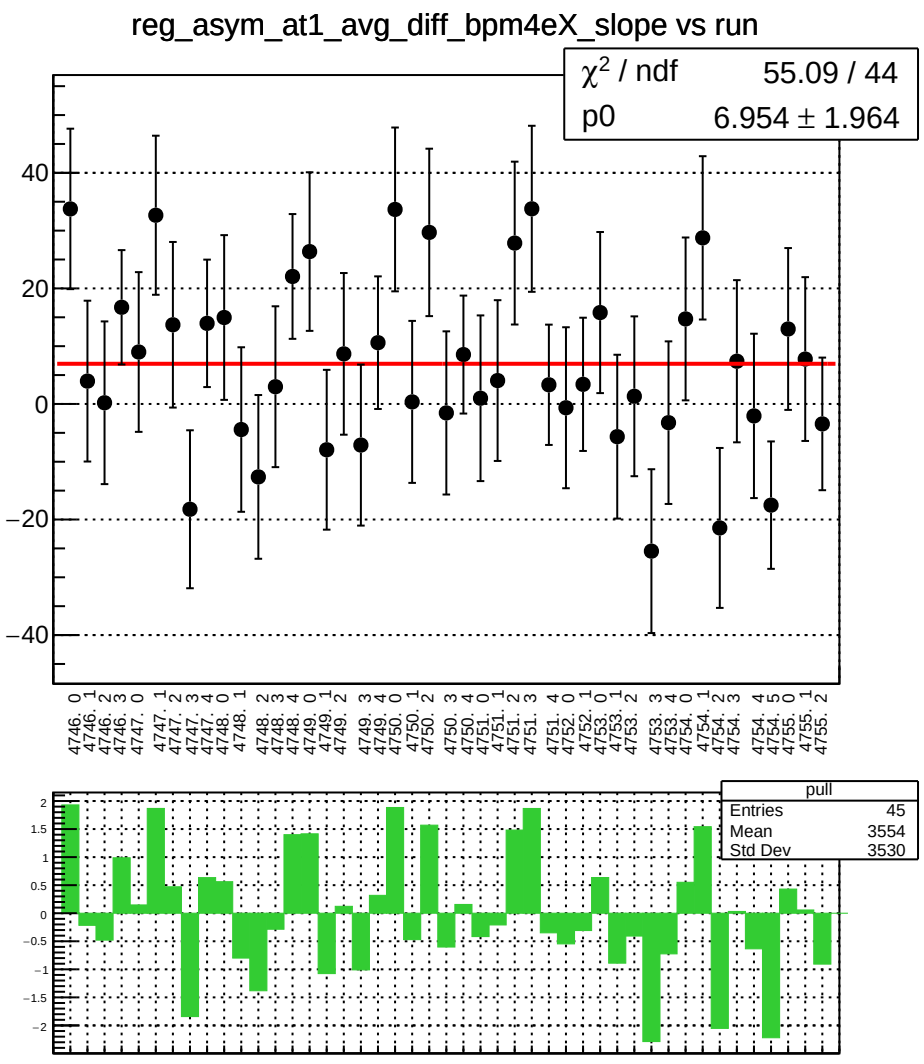

reg_asym_atr_dd_diff_bpm11X_slope vs run
χ² / ndf 55.17 / 44
p0 26.35 ± 2.885
pull
Entries 45
Mean 116.7
Std Dev 96.53

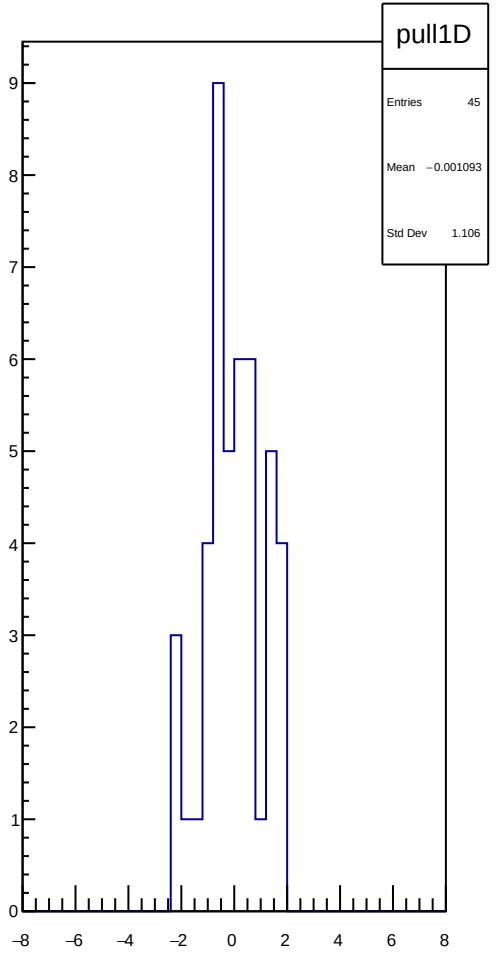

pull1D
Entries 45
Mean −0.01772
Std Dev 1.107

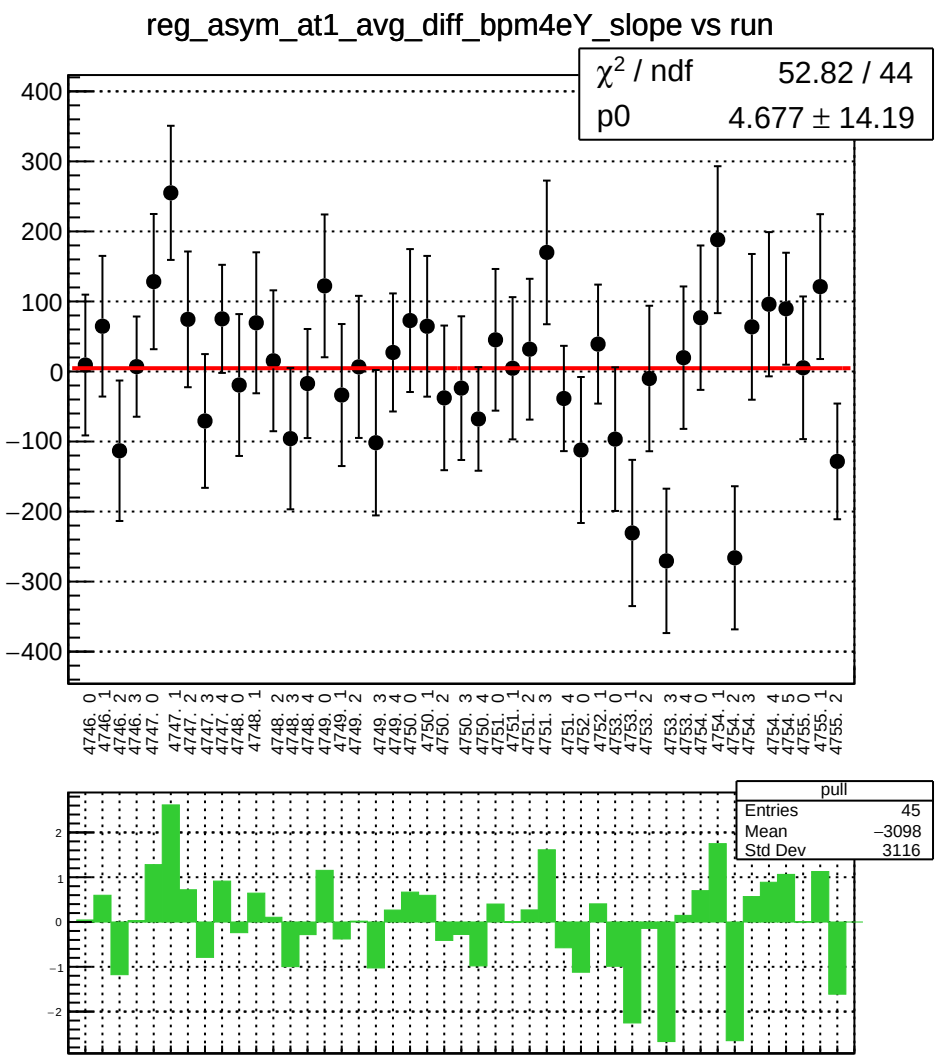

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 56.17 / 44
p0 −8.327 ± 9.765
200
100
0
−100
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 191.7
Std Dev 165.3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.02168
Std Dev 1.117
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

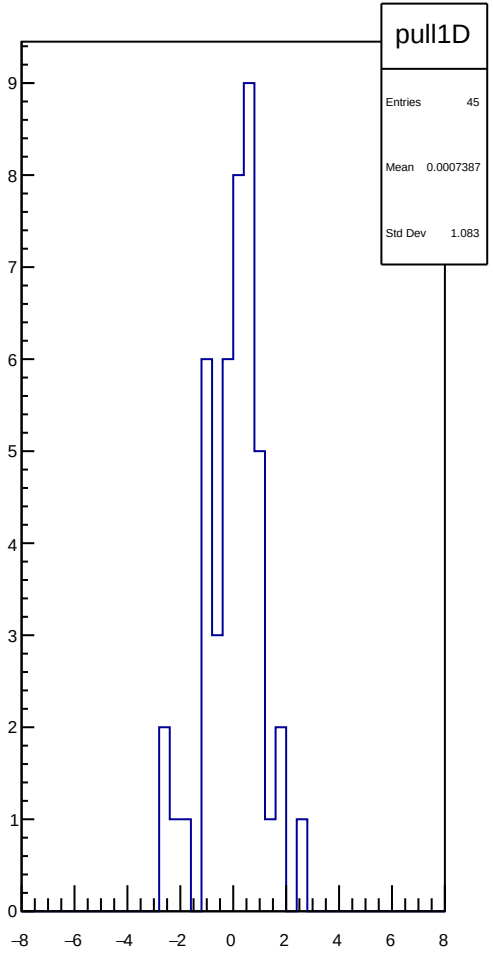

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 60.95 / 44
p0 −10.05 ± 12.19
pull
Entries 45
Mean 366.5
Std Dev 346.1

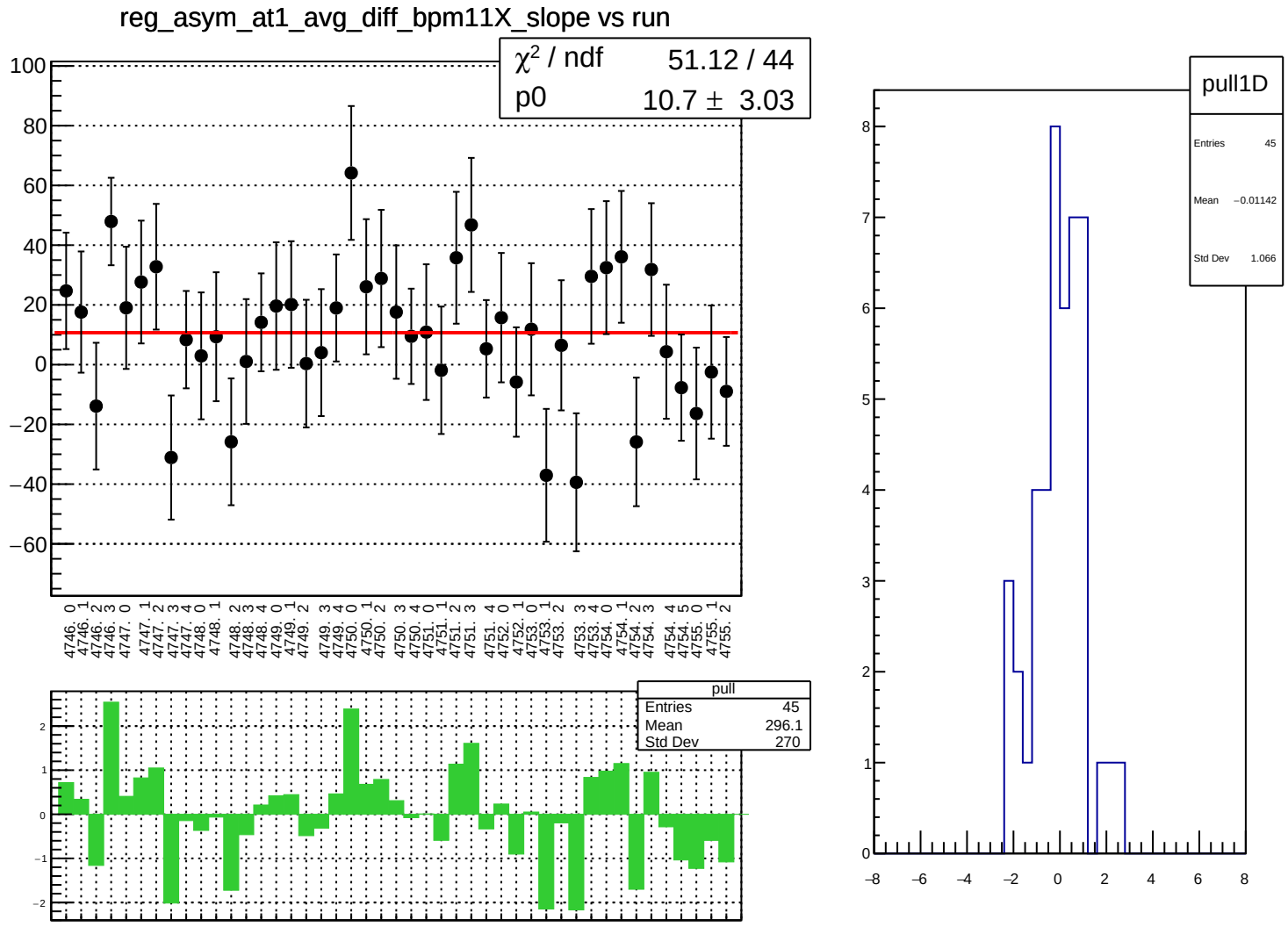

pull1D
Entries 45
Mean 0.006869
Std Dev 1.164

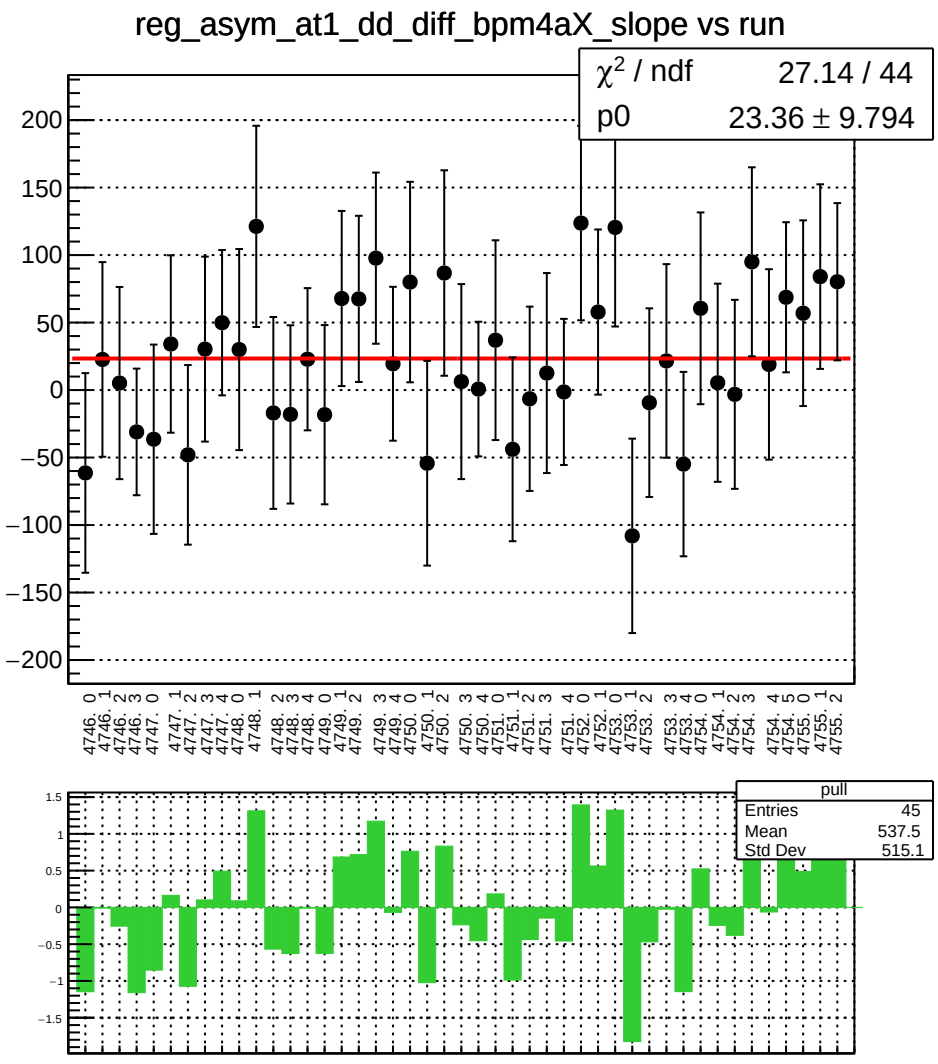

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 55.09 / 44
p0 6.954 ± 1.964
pull
Entries 45
Mean 3554
Std Dev 3530

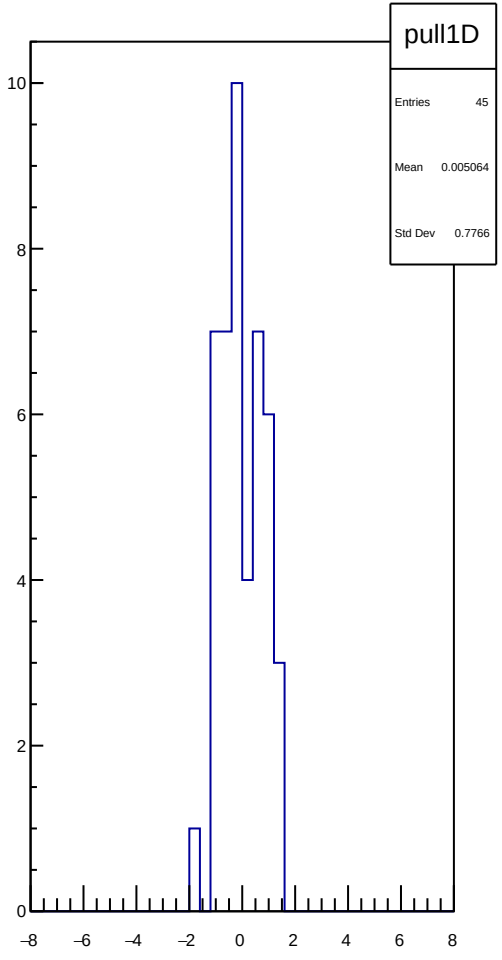

pull1D
Entries 45
Mean −0.001093
Std Dev 1.106

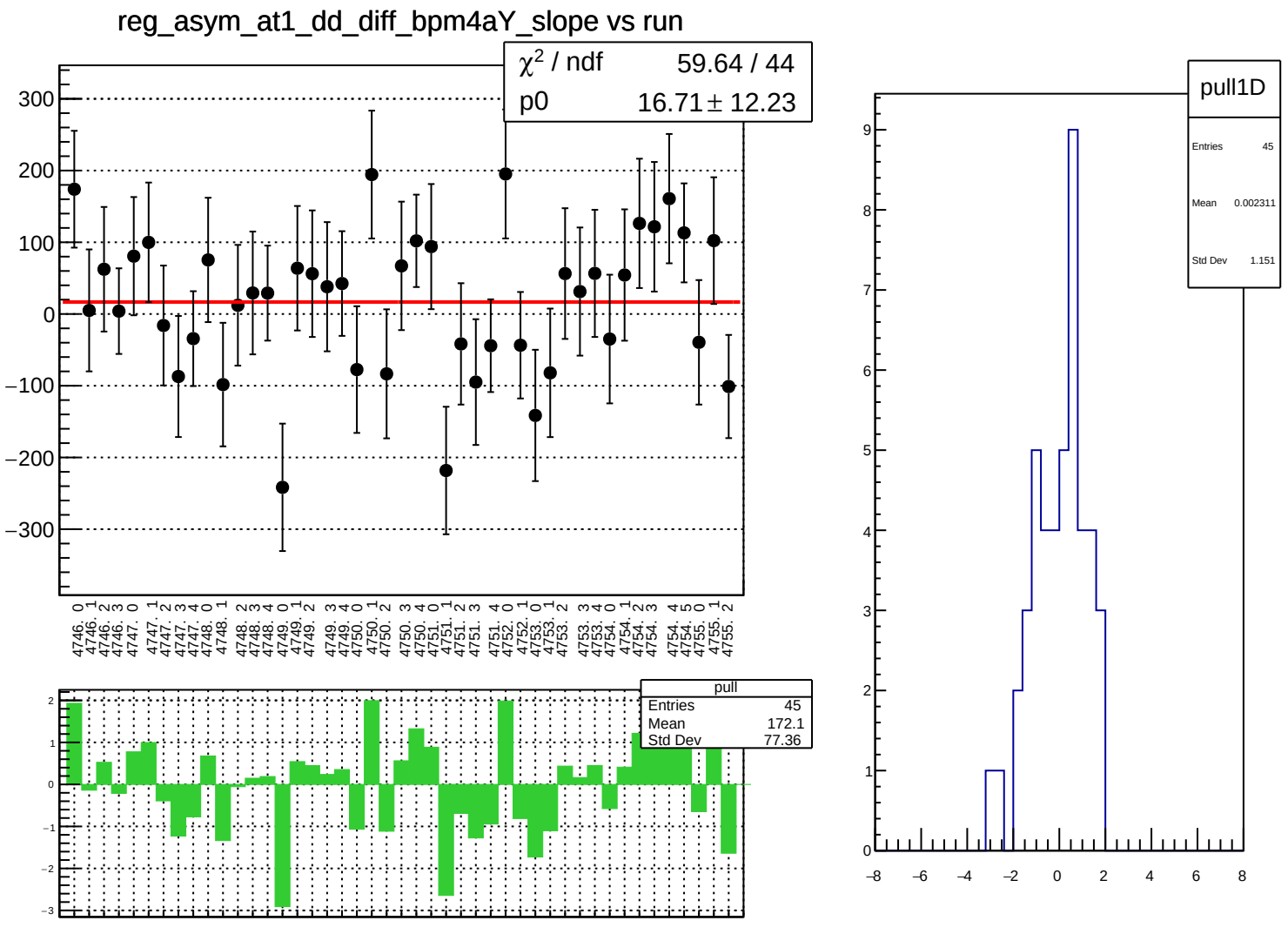

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 52.82 / 44
p0 4.677 ± 14.19
pull
Entries 45
Mean −3098
Std Dev 3116

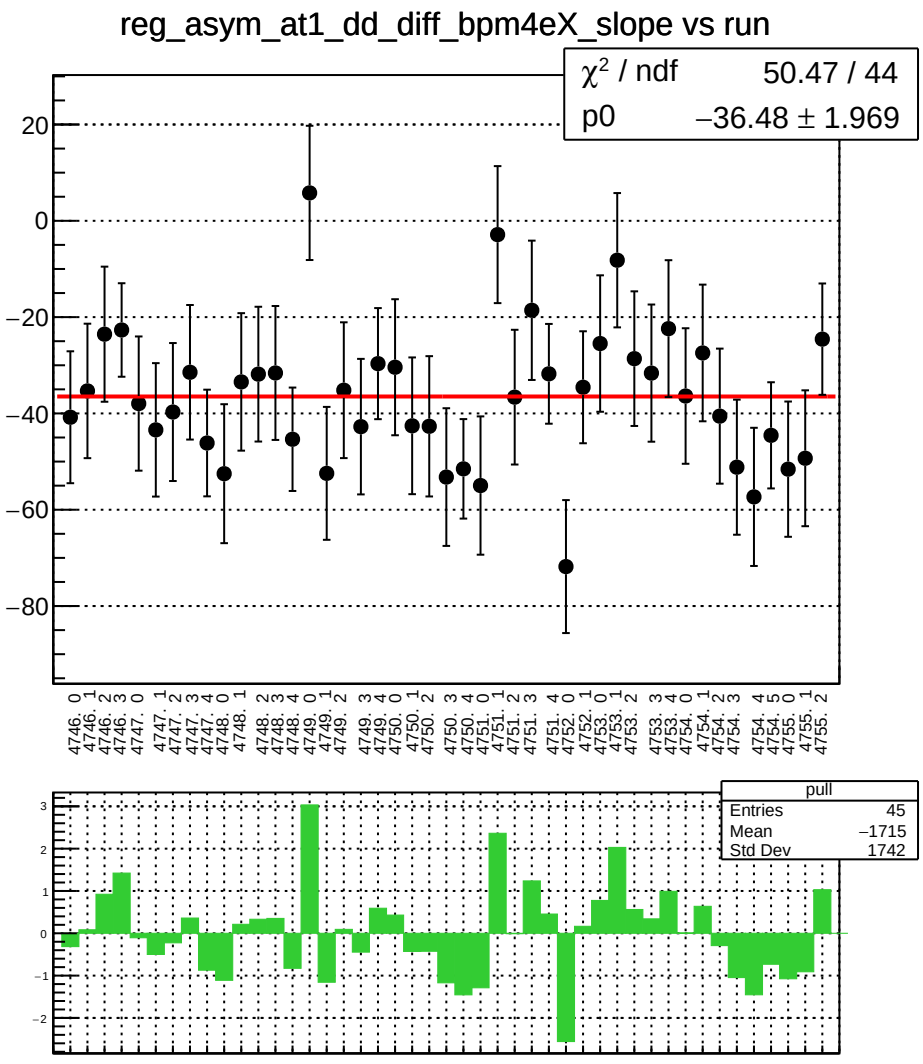

pull1D
Entries 45
Mean 0.0007387
Std Dev 1.083

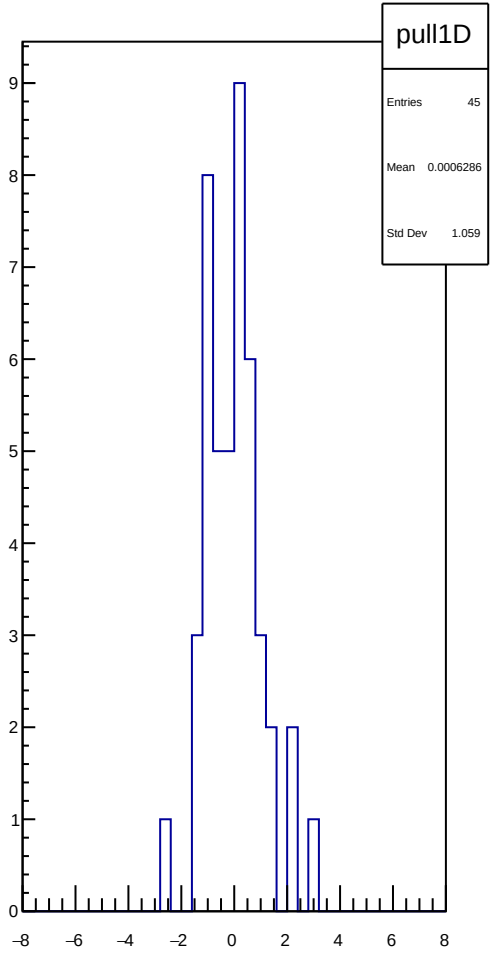

reg_asym_at1_avg_diff_bpm11X_slope vs run
χ² / ndf 51.12 / 44
p0 10.7 ± 3.03
pull
Entries 45
Mean 296.1
Std Dev 270
pull1D
Entries 45
Mean −0.01142
Std Dev 1.066

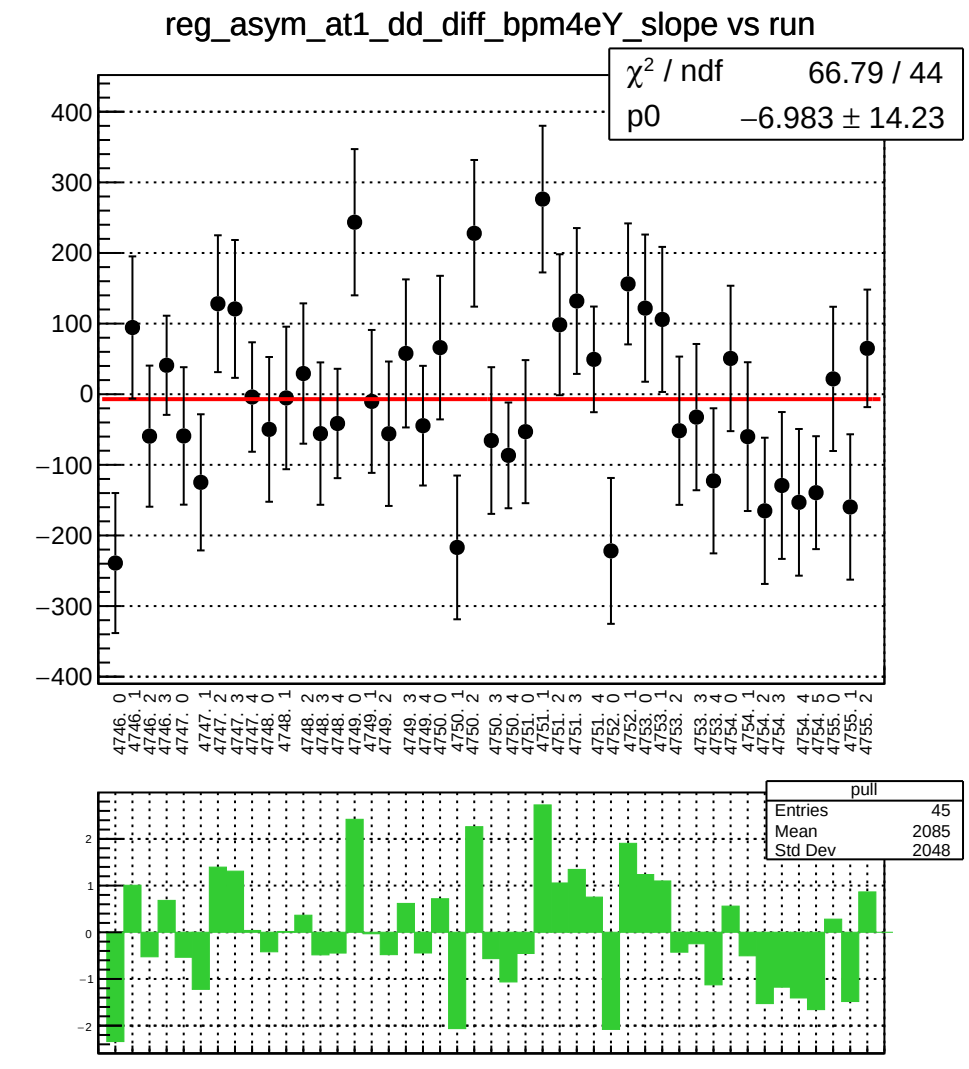

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 27.14 / 44
p0 23.36 ± 9.794
pull
Entries 45
Mean 537.5
Std Dev 515.1

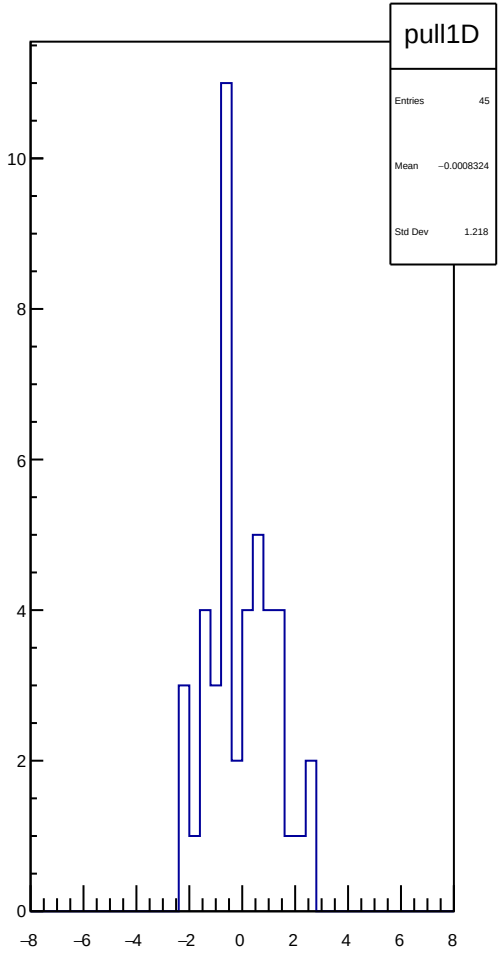

pull1D
Entries 45
Mean 0.005064
Std Dev 0.7766

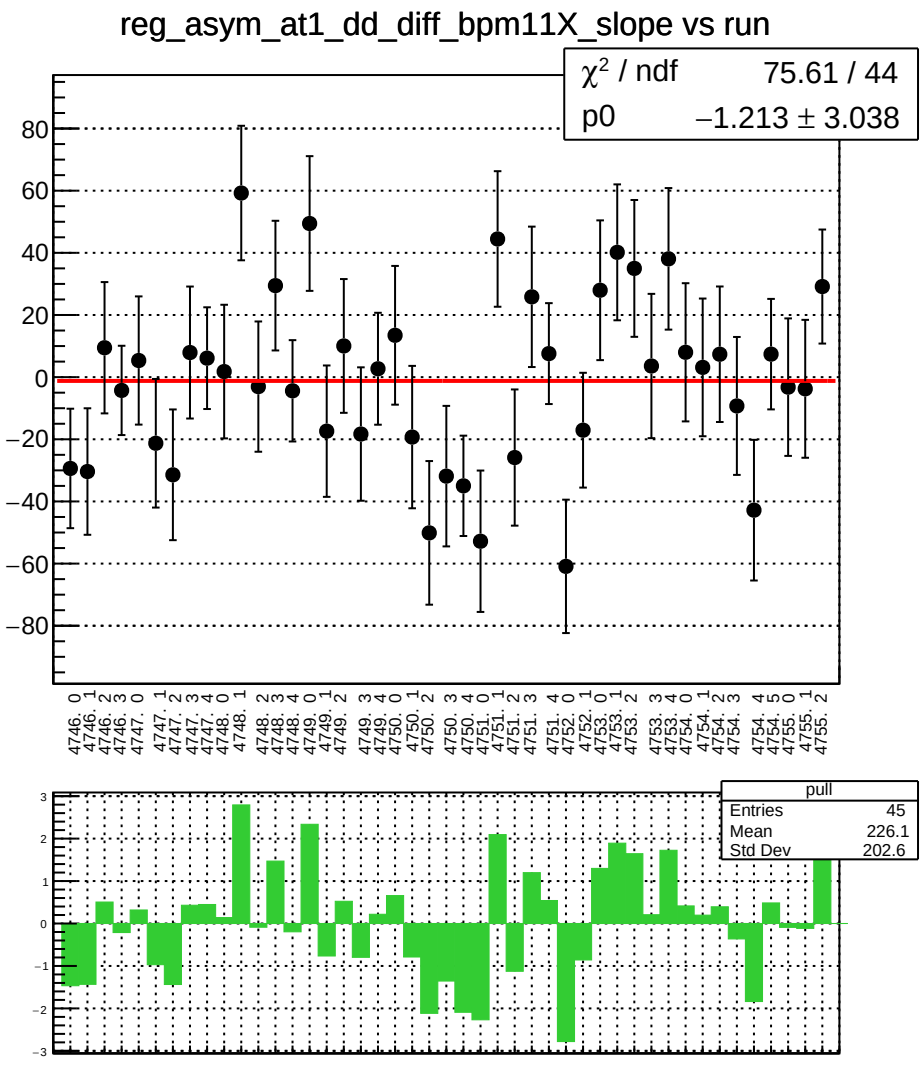

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 59.64 / 44
p0 16.71 ± 12.23
pull
Entries 45
Mean 172.1
Std Dev 77.36
pull1D
Entries 45
Mean 0.002311
Std Dev 1.151

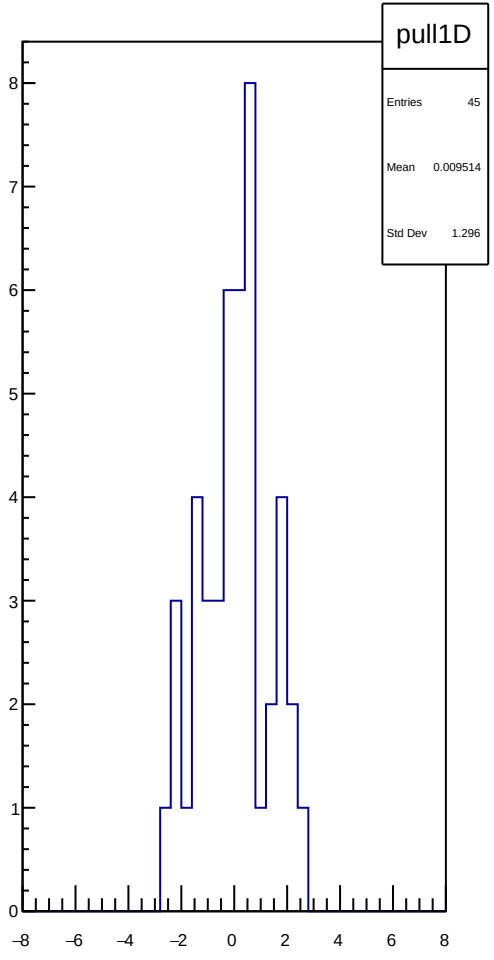

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 50.47 / 44
p0 −36.48 ± 1.969
pull
Entries 45
Mean −1715
Std Dev 1742

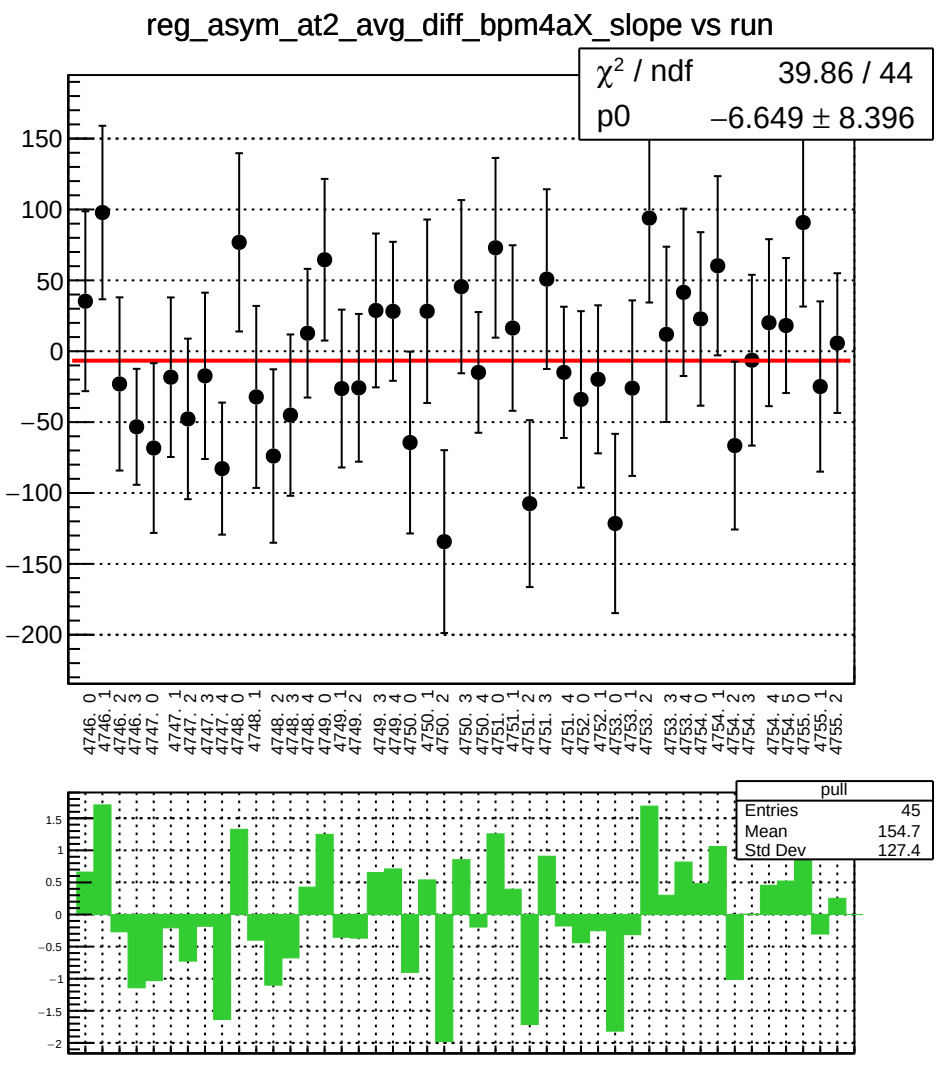

pull1D
Entries 45
Mean 0.0006286
Std Dev 1.059

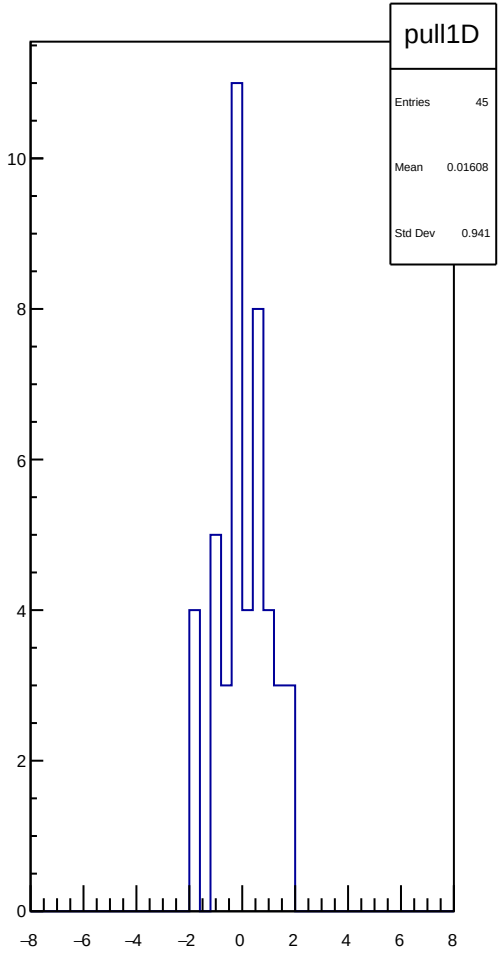

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 66.79 / 44
p0 −6.983 ± 14.23
pull
Entries 45
Mean 2085
Std Dev 2048

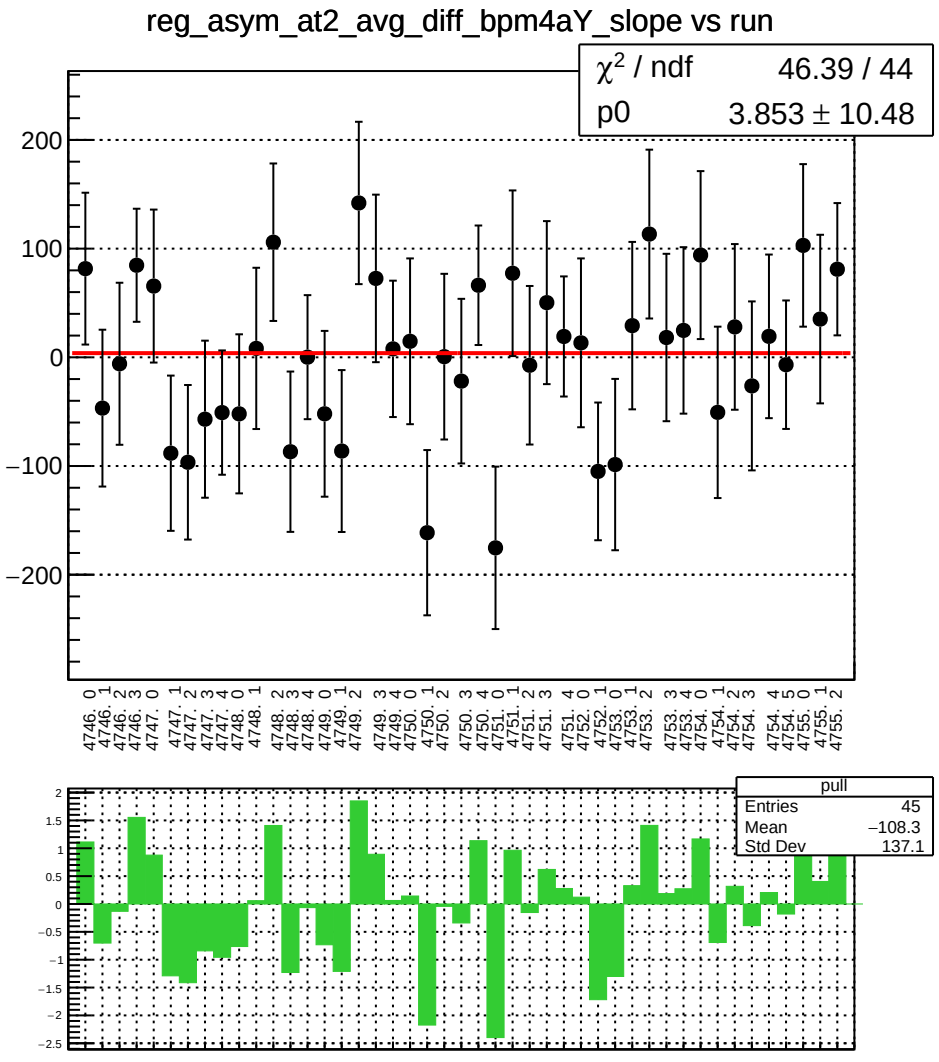

pull1D
Entries 45
Mean −0.0008324
Std Dev 1.218

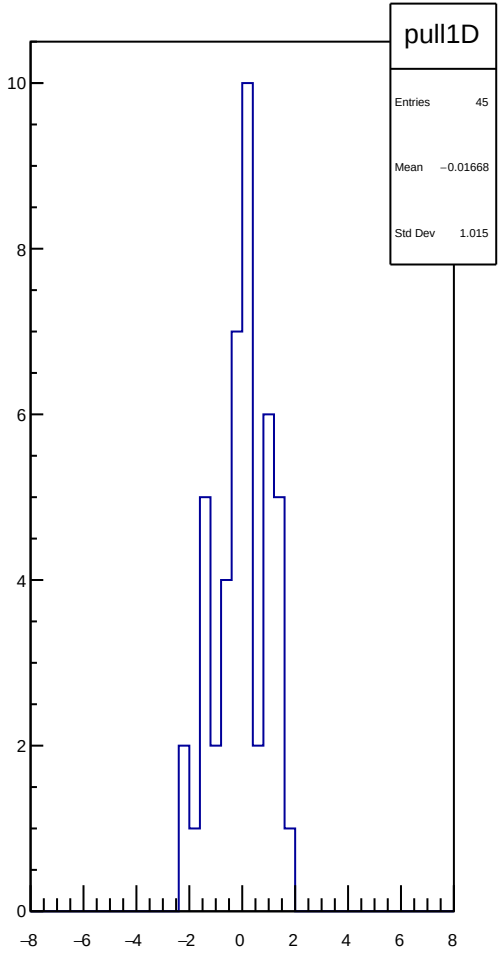

reg_asym_at1_dd_diff_bpm11X_slope vs run
χ² / ndf 75.61 / 44
p0 −1.213 ± 3.038
pull
Entries 45
Mean 226.1
Std Dev 202.6

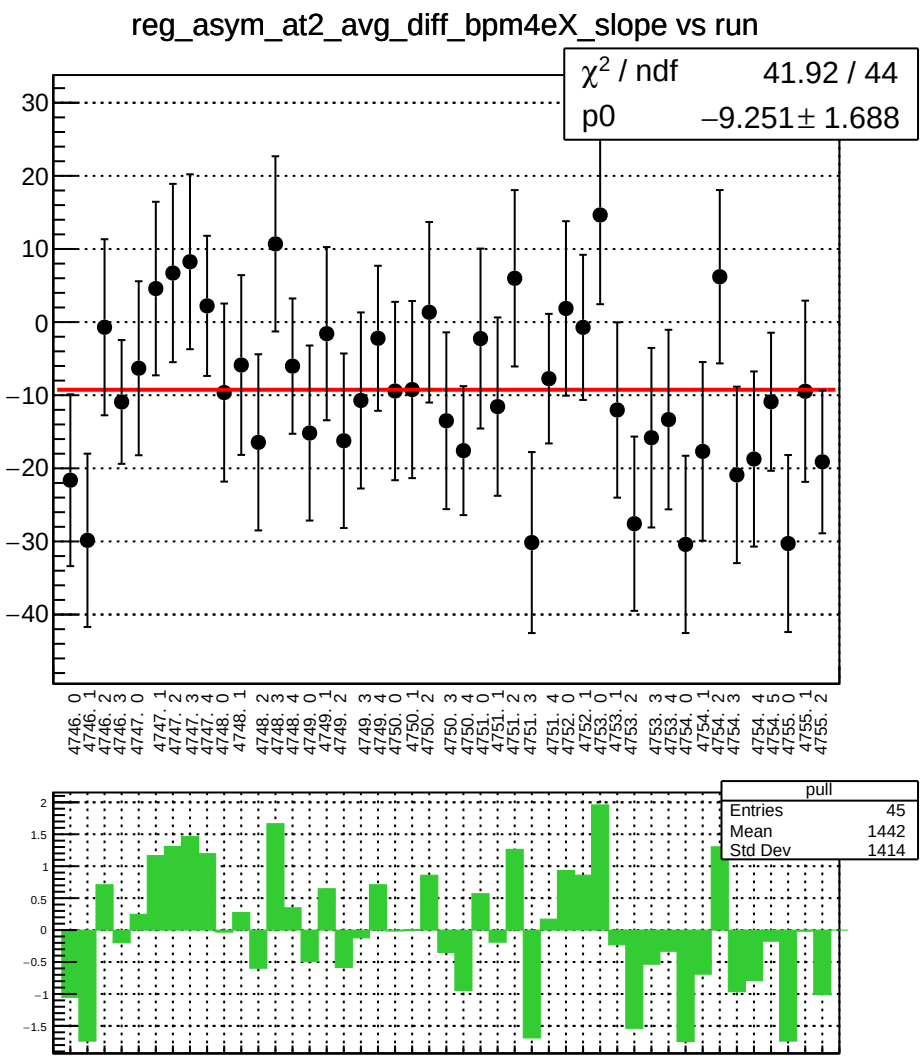

pull1D
Entries 45
Mean 0.009514
Std Dev 1.296

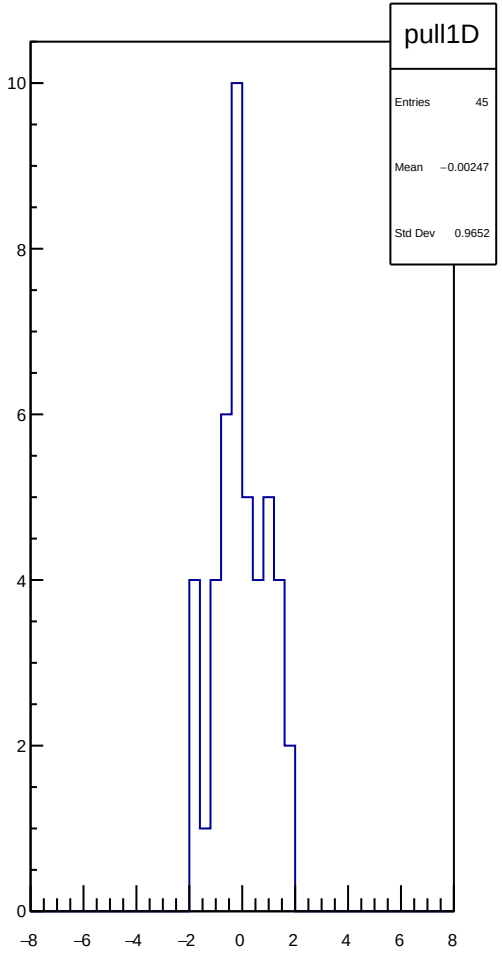

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 39.86 / 44
p0 −6.649 ± 8.396
150
100
50
0
−50
−100
−150
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 154.7
Std Dev 127.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2

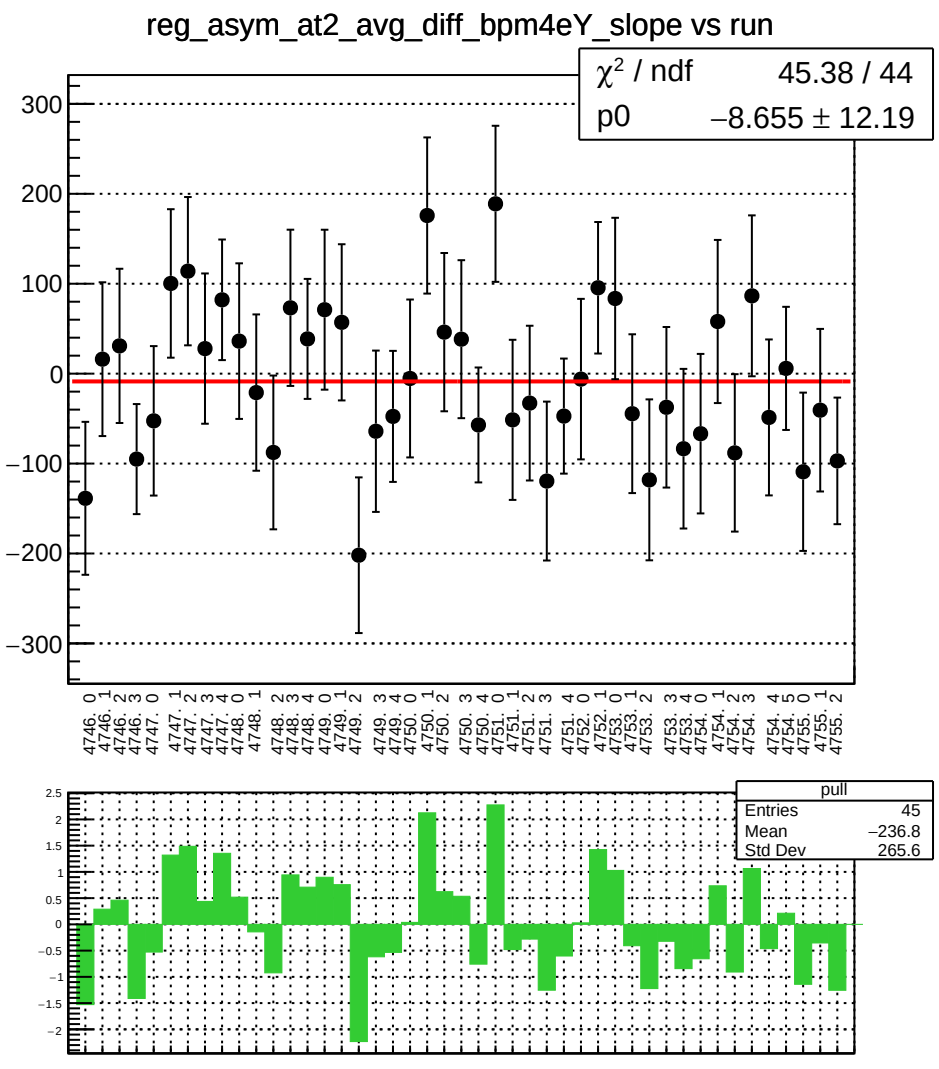

pull1D
Entries 45
Mean 0.01608
Std Dev 0.941
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

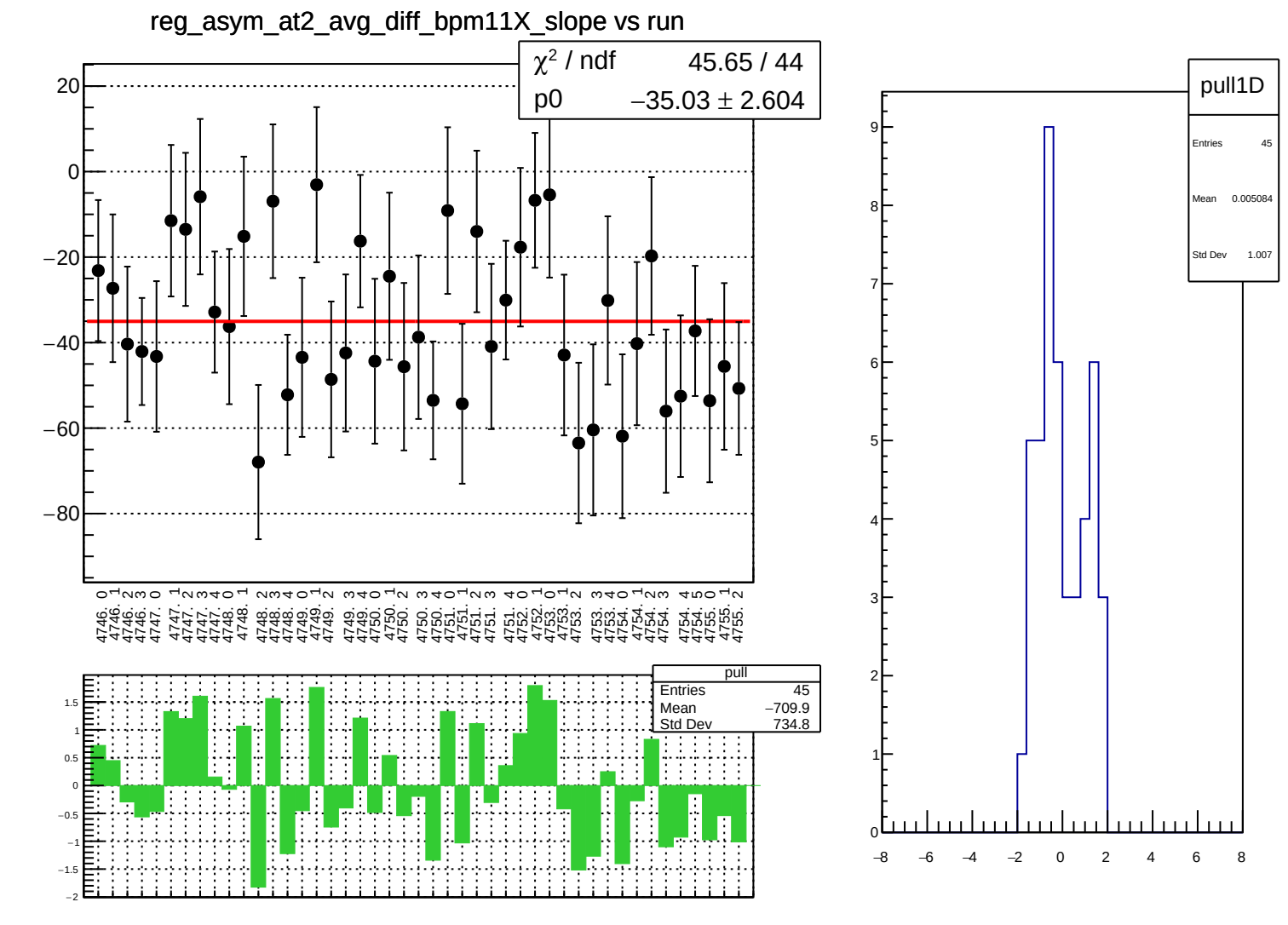

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 46.39 / 44
p0 3.853 ± 10.48
200
100
0
−100
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −108.3
Std Dev 137.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

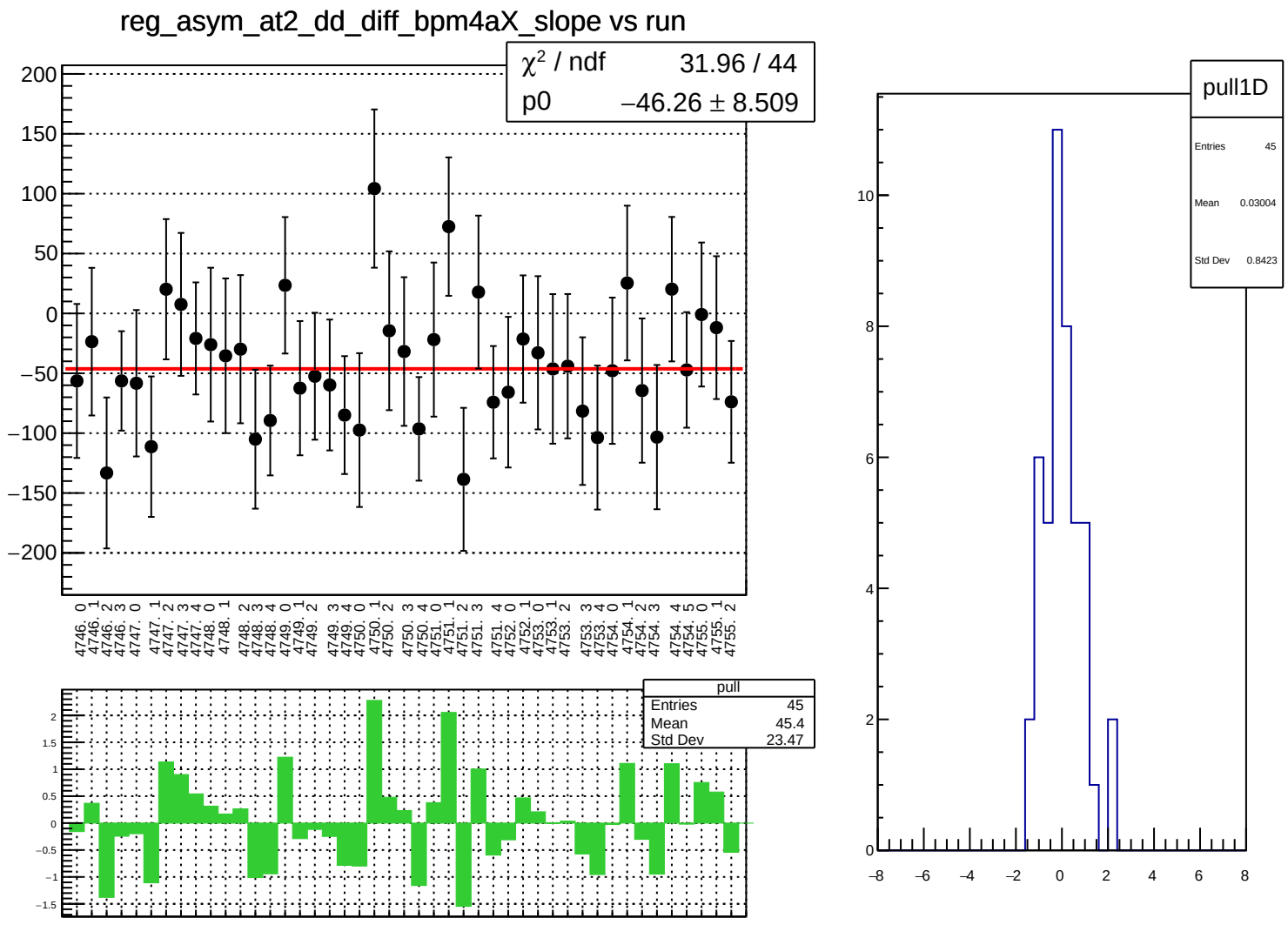

pull1D
Entries 45
Mean −0.01668
Std Dev 1.015
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

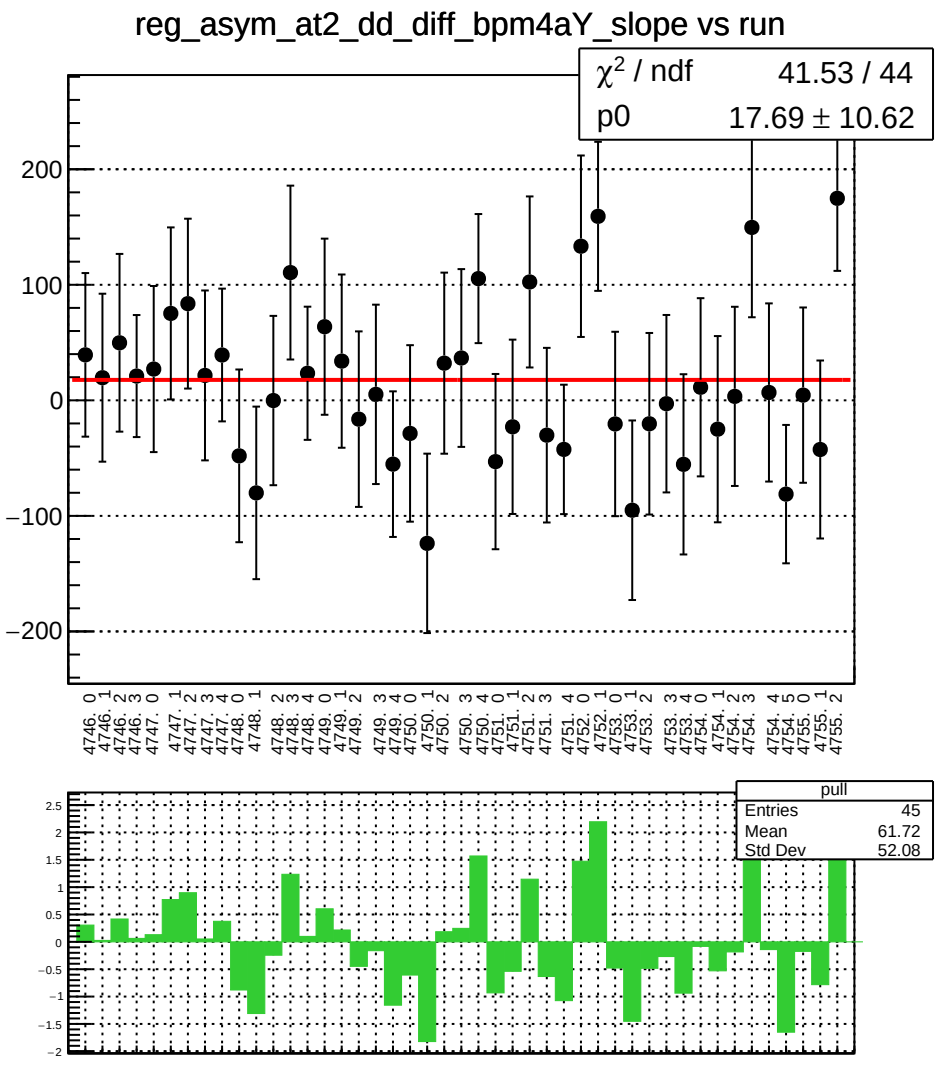

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.92 / 44
p0 −9.251 ± 1.688
pull
Entries 45
Mean 1442
Std Dev 1414

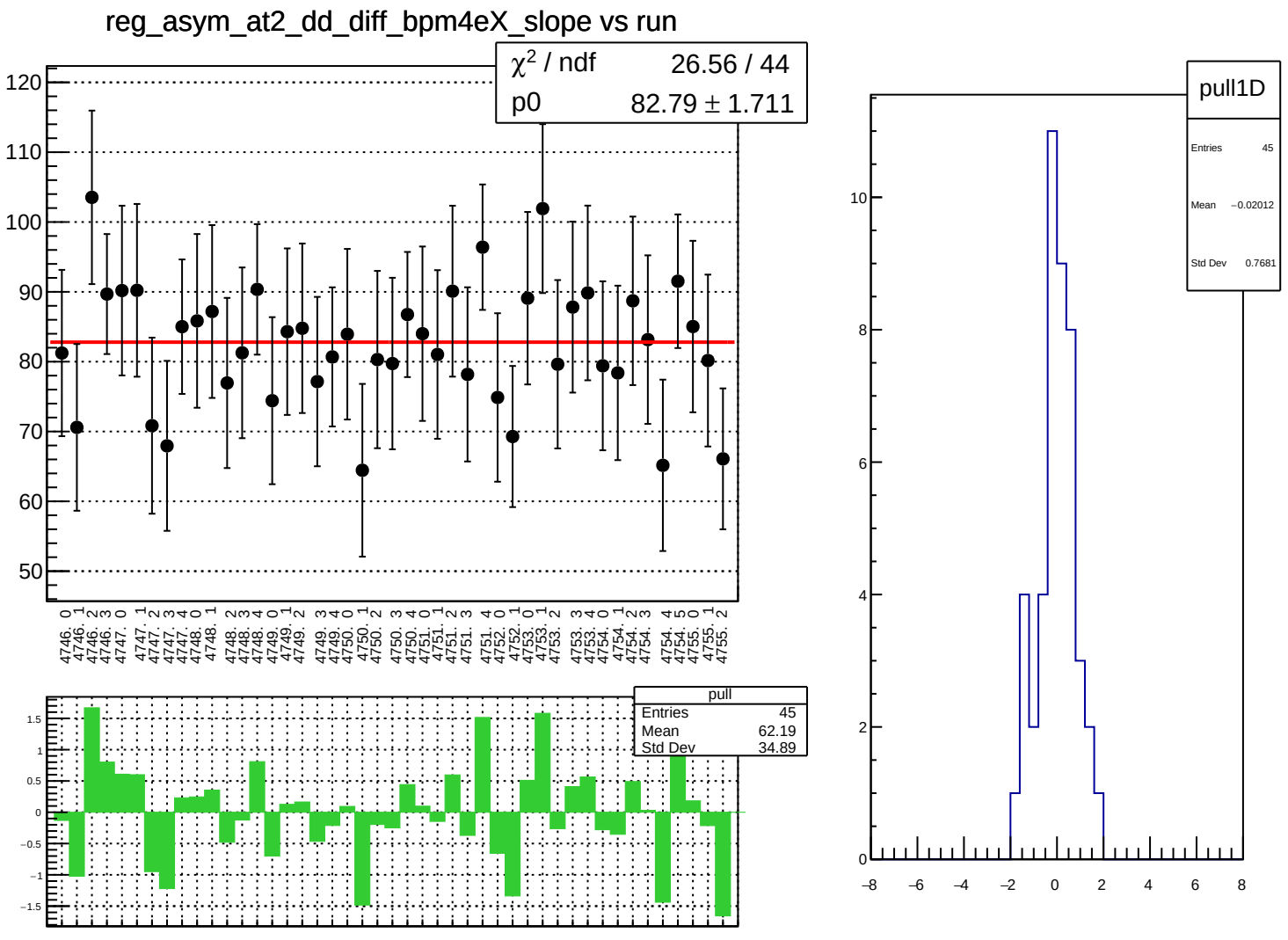

pull1D
Entries 45
Mean −0.00247
Std Dev 0.9652

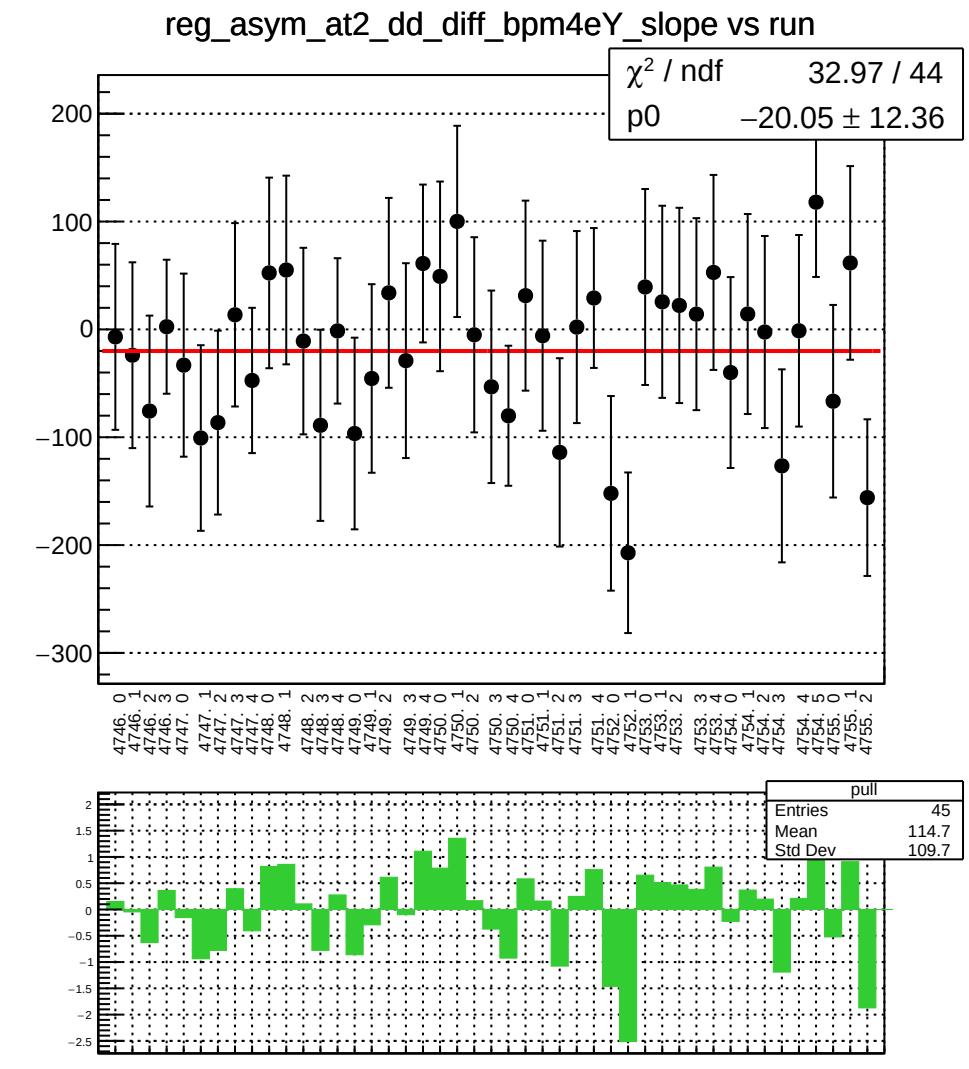

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 45.38 / 44
p0 −8.655 ± 12.19
300
200
100
0
−100
−200
−300
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −236.8
Std Dev 265.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.008869
Std Dev 1.004
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

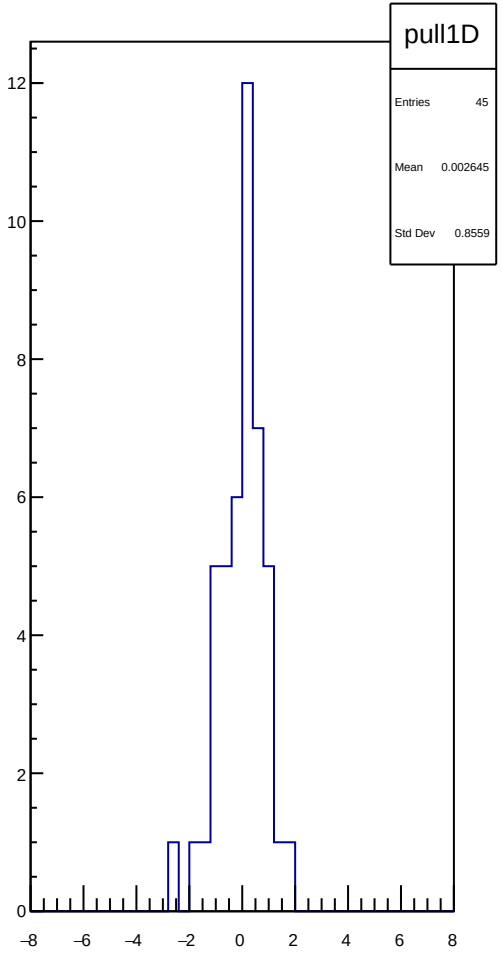

reg_asym_at2_avg_diff_bpm11X_slope vs run
χ² / ndf 45.65 / 44
p0 −35.03 ± 2.604
pull
Entries 45
Mean −709.9
Std Dev 734.8
pull1D
Entries 45
Mean 0.005084
Std Dev 1.007

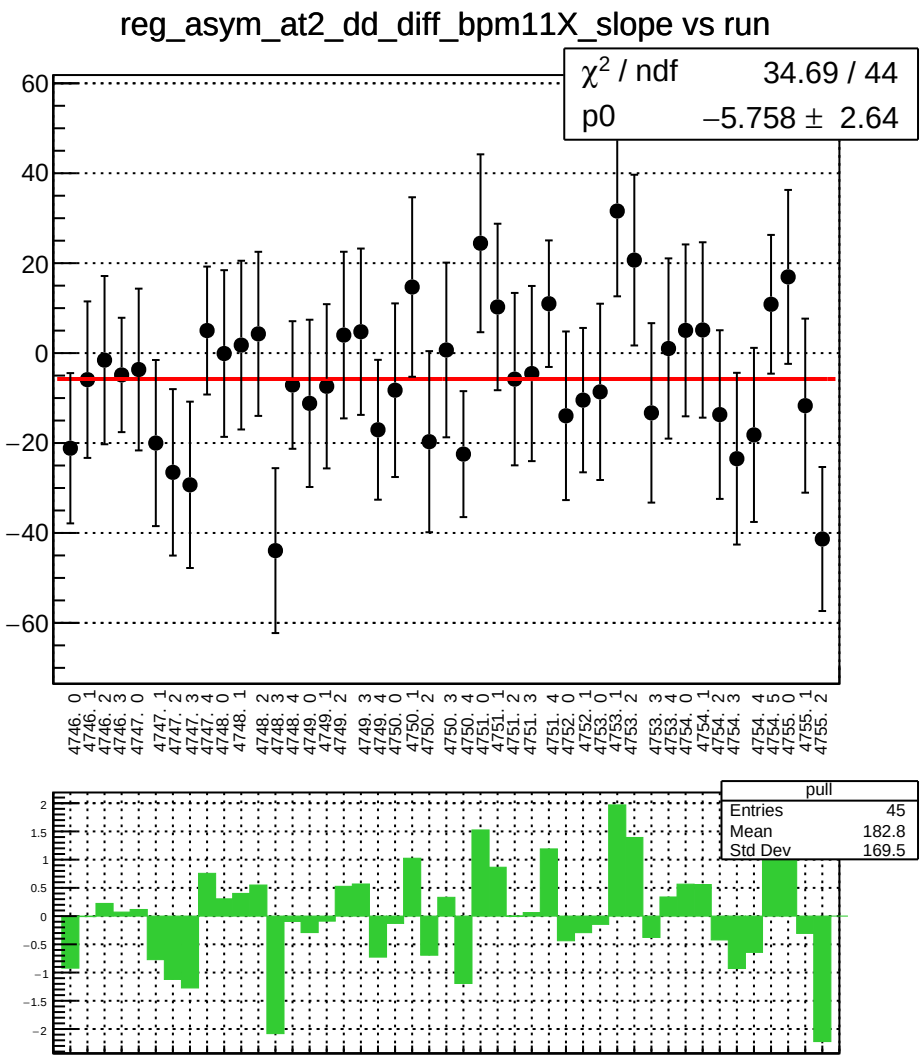

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 31.96 / 44
p0 −46.26 ± 8.509
pull
Entries 45
Mean 45.4
Std Dev 23.47
pull1D
Entries 45
Mean 0.03004
Std Dev 0.8423

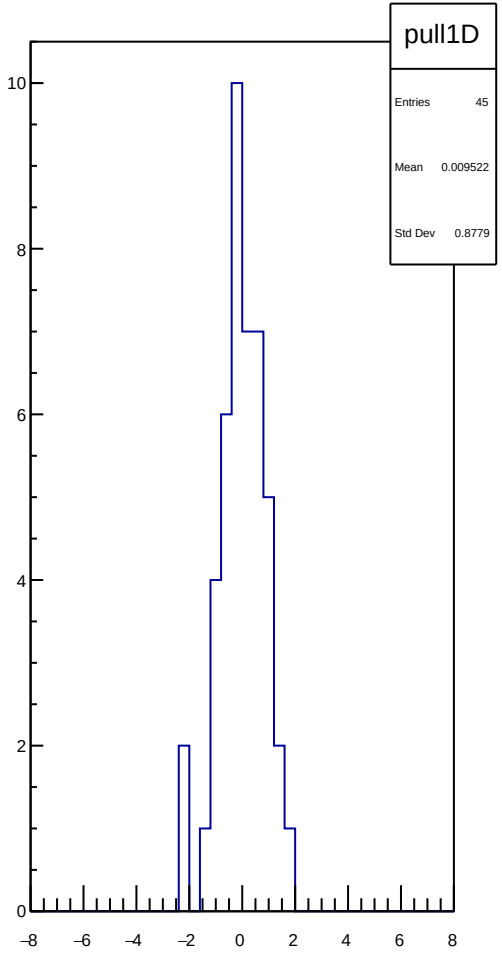

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.53 / 44
p0 17.69 ± 10.62
200
100
0
−100
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 61.72
Std Dev 52.08
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01679
Std Dev 0.9605
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

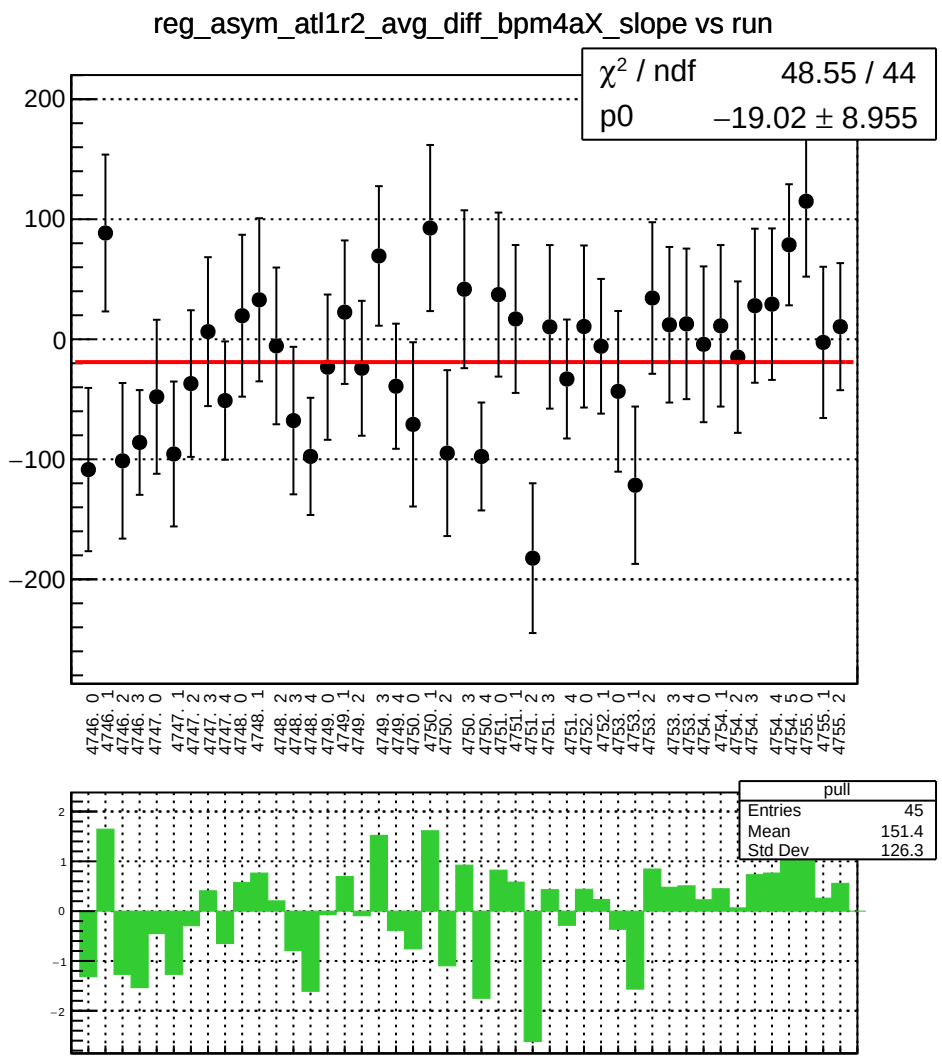

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.56 / 44
p0 82.79 ± 1.711
pull
Entries 45
Mean 62.19
Std Dev 34.89
pull1D
Entries 45
Mean −0.02012
Std Dev 0.7681

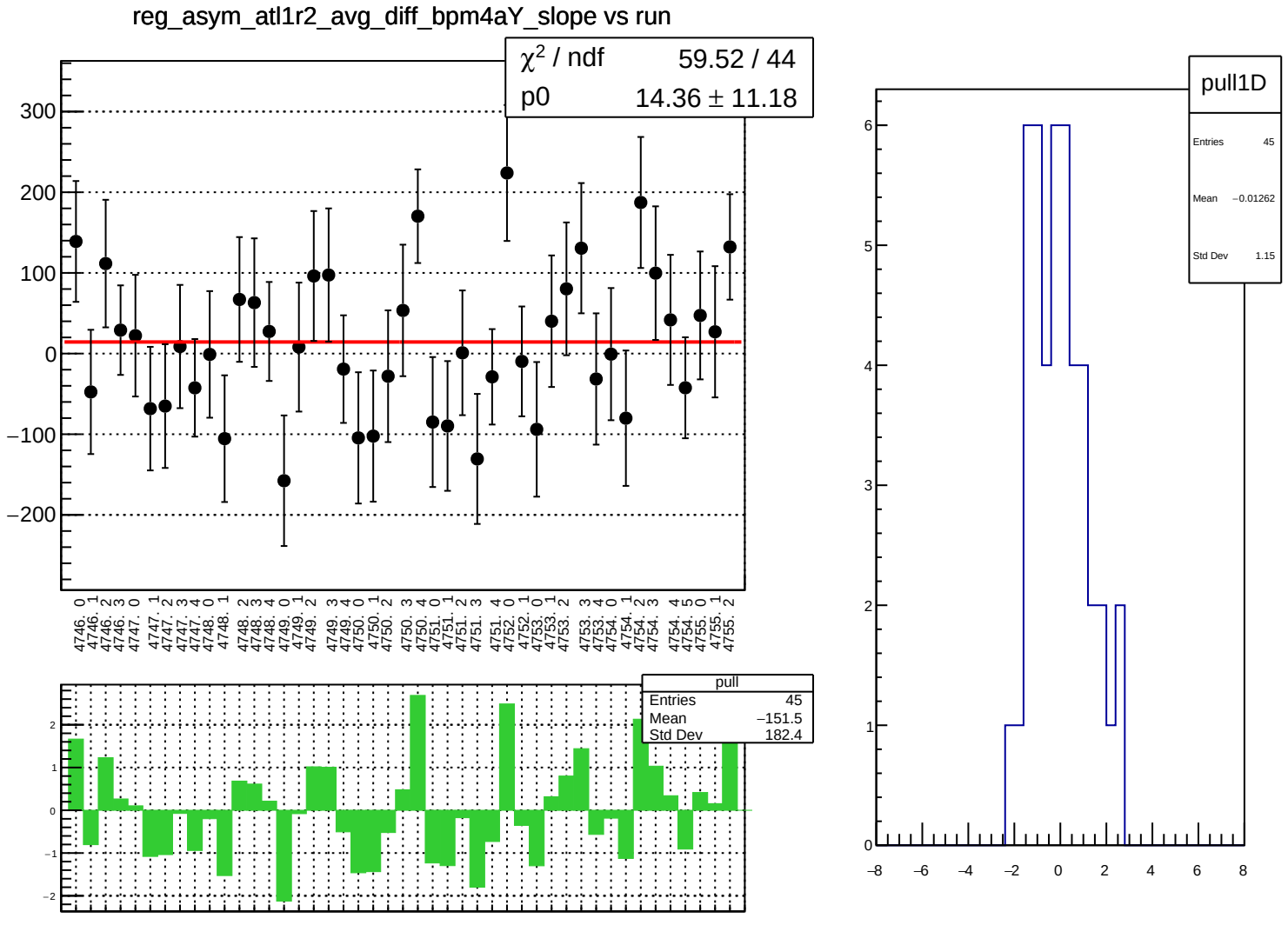

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.97 / 44
p0 −20.05 ± 12.36
pull
Entries 45
Mean 114.7
Std Dev 109.7

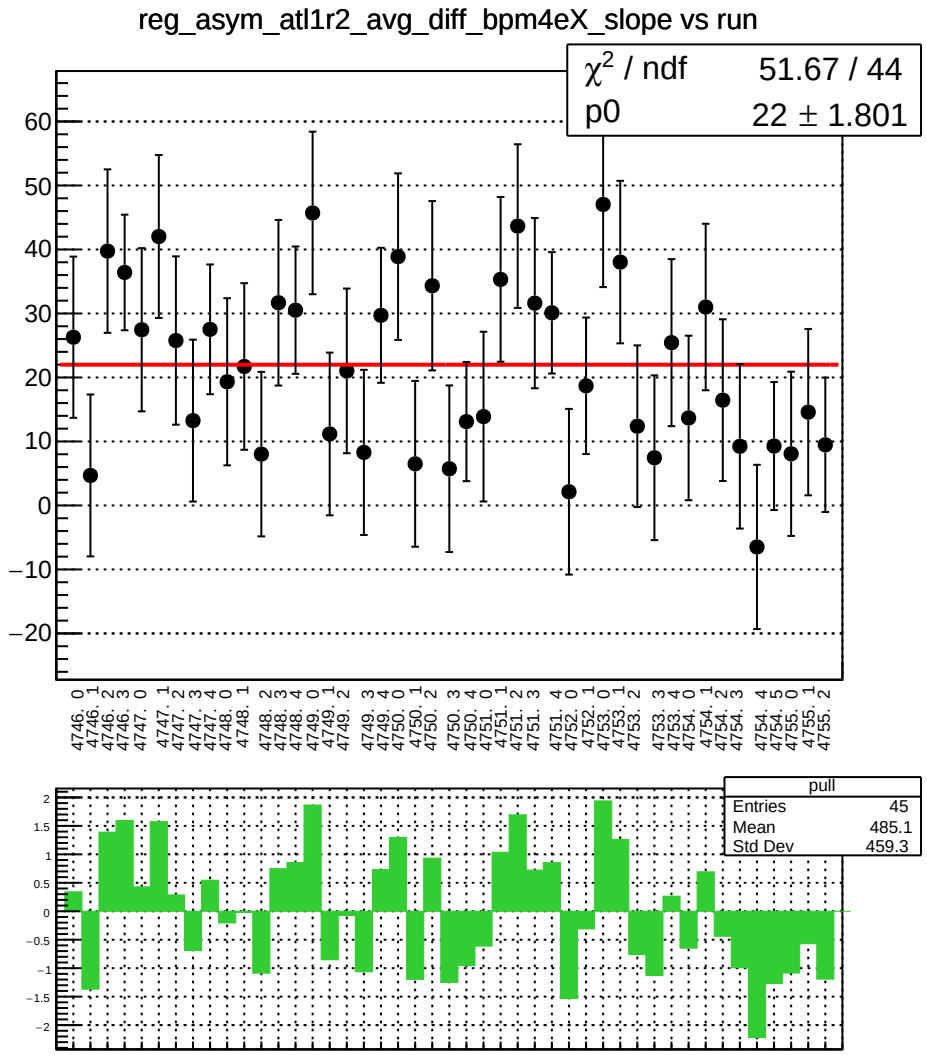

pull1D
Entries 45
Mean 0.002645
Std Dev 0.8559

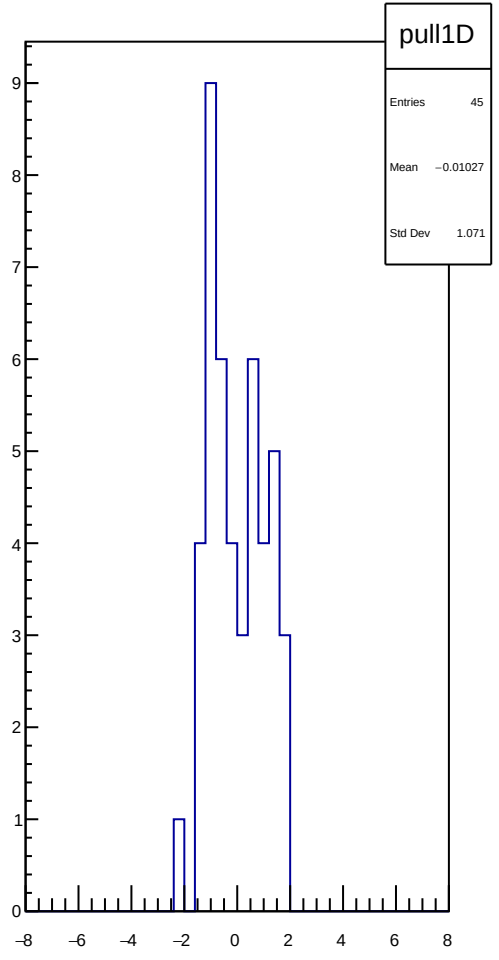

reg_asym_at2_dd_diff_bpm11X_slope vs run
χ² / ndf 34.69 / 44
p0 −5.758 ± 2.64
pull
Entries 45
Mean 182.8
Std Dev 169.5

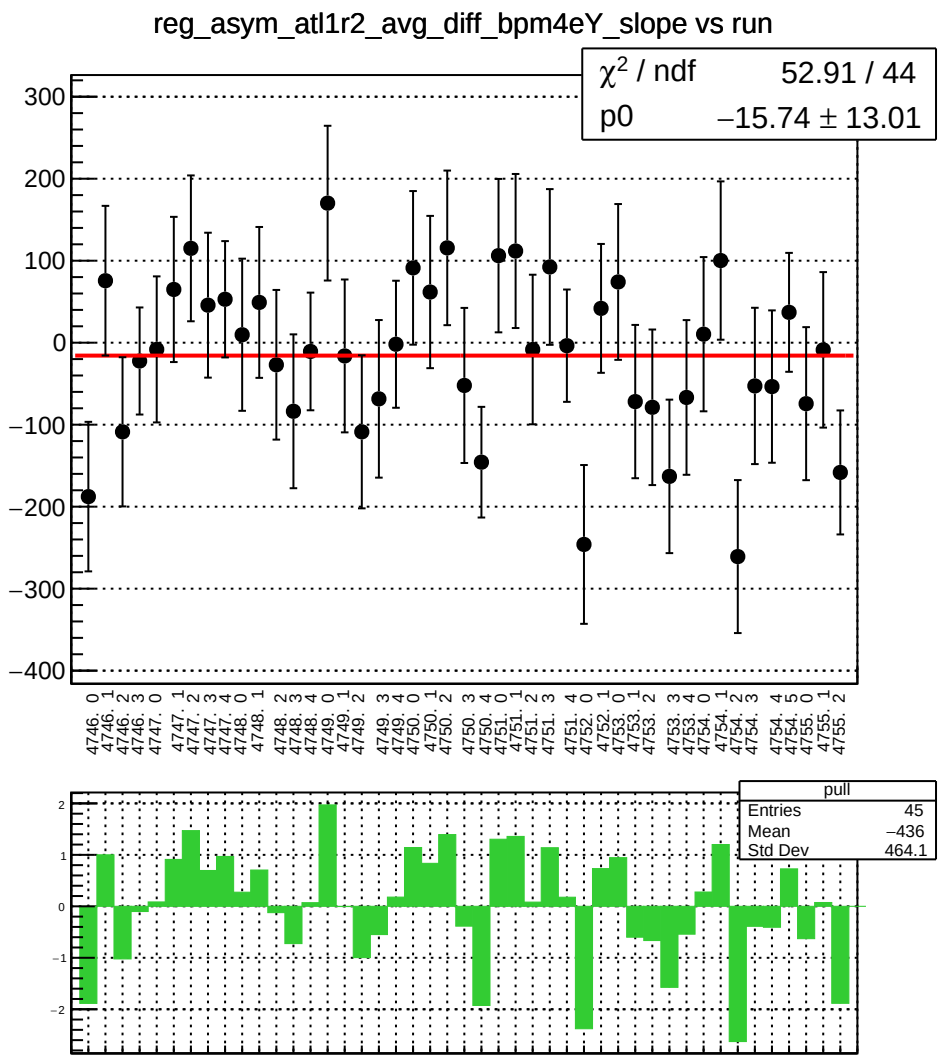

pull1D
Entries 45
Mean 0.009522
Std Dev 0.8779

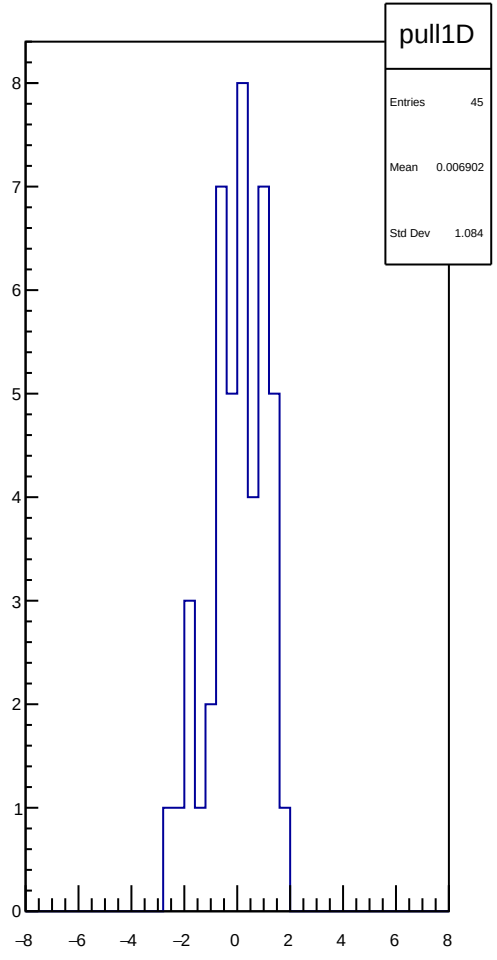

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 48.55 / 44
p0 −19.02 ± 8.955
200
100
0
−100
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 151.4
Std Dev 126.3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.03685
Std Dev 1.038
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

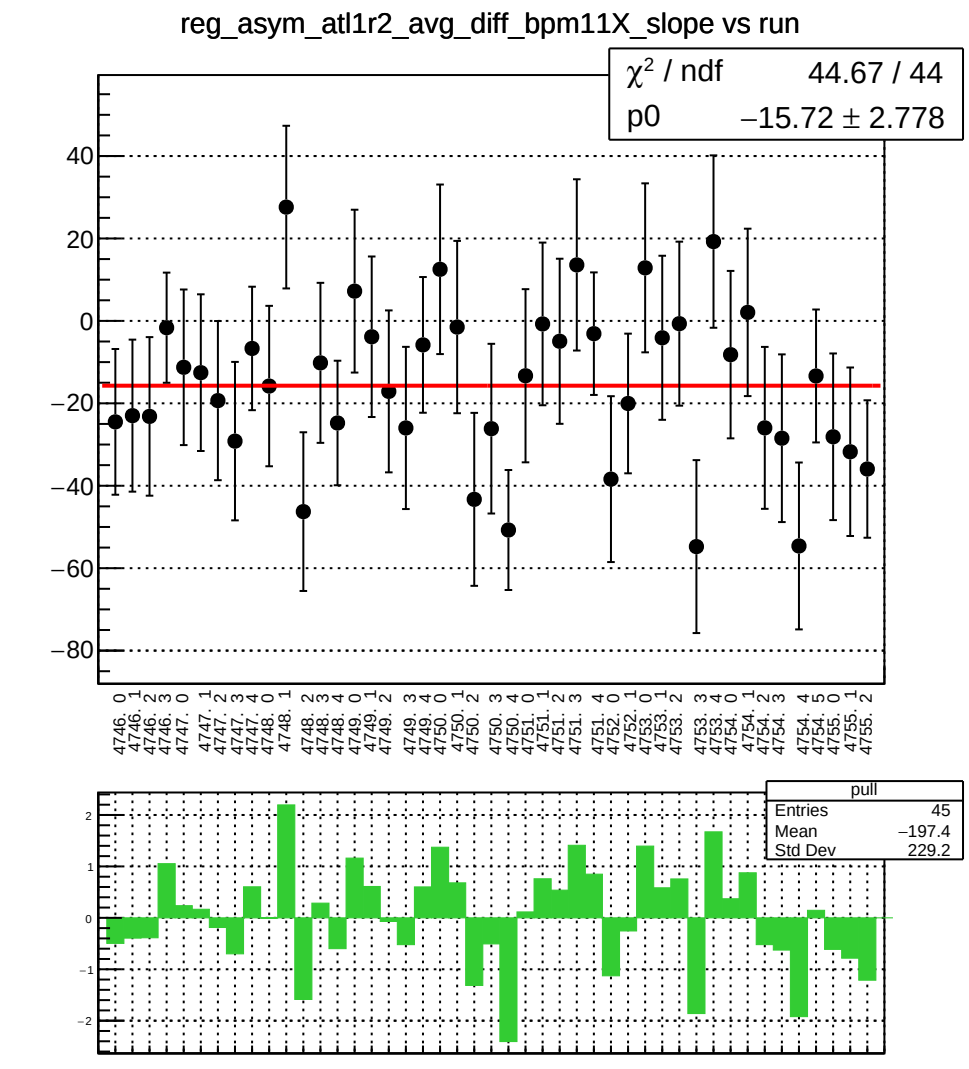

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 59.52 / 44
p0 14.36 ± 11.18
300
200
100
0
−100
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −151.5
Std Dev 182.4
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01262
Std Dev 1.15
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

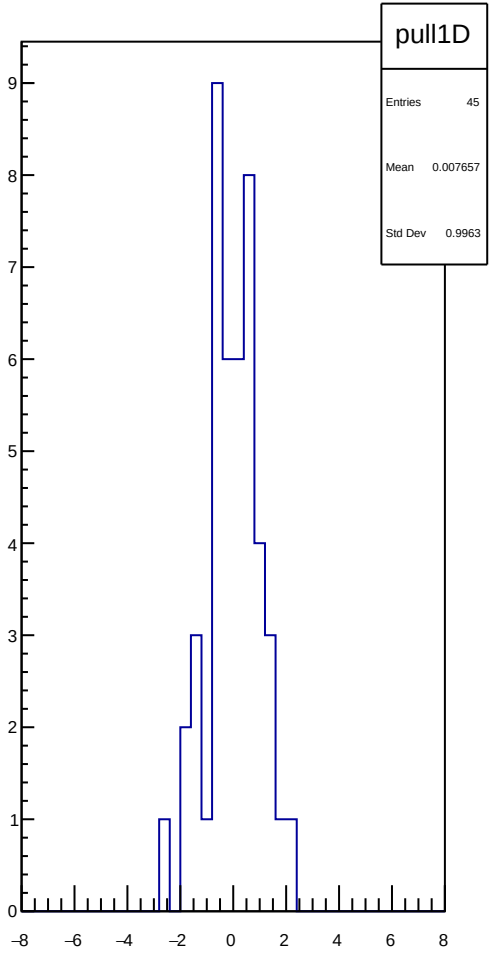

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 51.67 / 44
p0 22 ± 1.801
pull
Entries 45
Mean 485.1
Std Dev 459.3

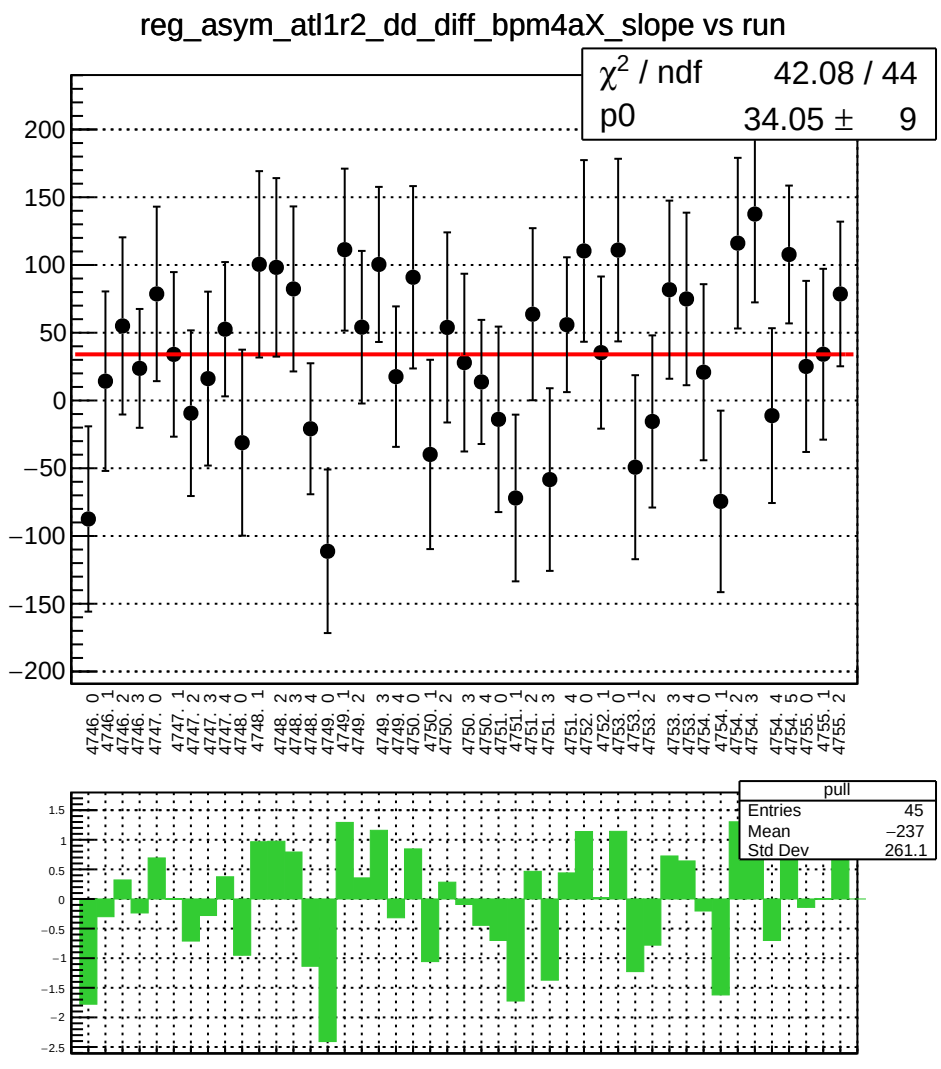

pull1D
Entries 45
Mean −0.01027
Std Dev 1.071

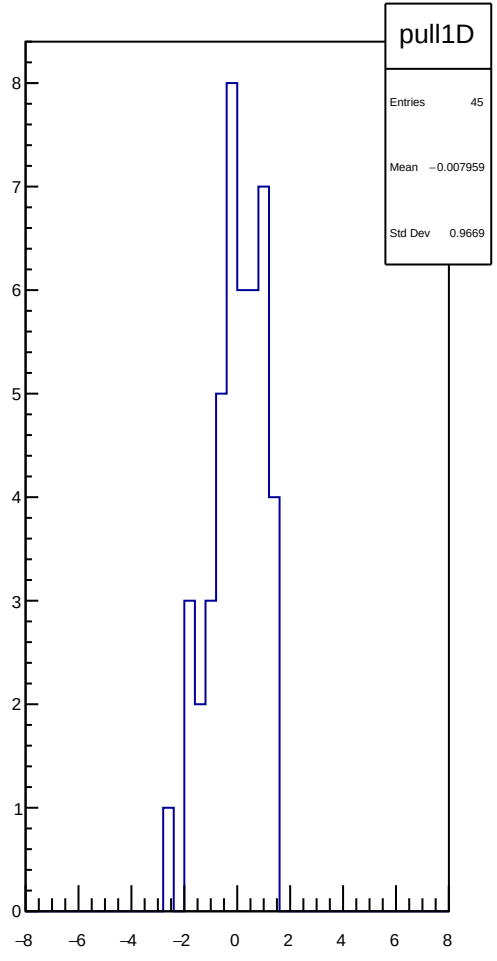

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 52.91 / 44
p0 −15.74 ± 13.01
pull
Entries 45
Mean −436
Std Dev 464.1

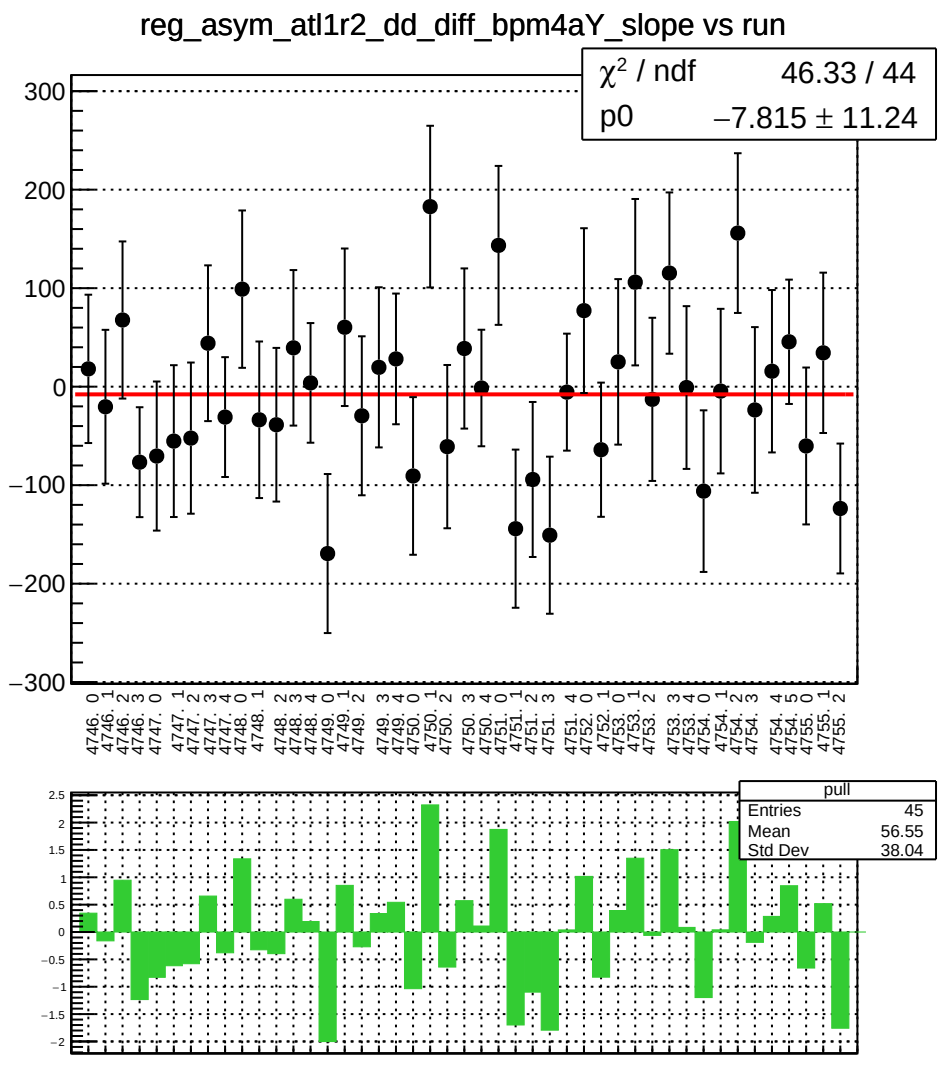

pull1D
Entries 45
Mean 0.006902
Std Dev 1.084

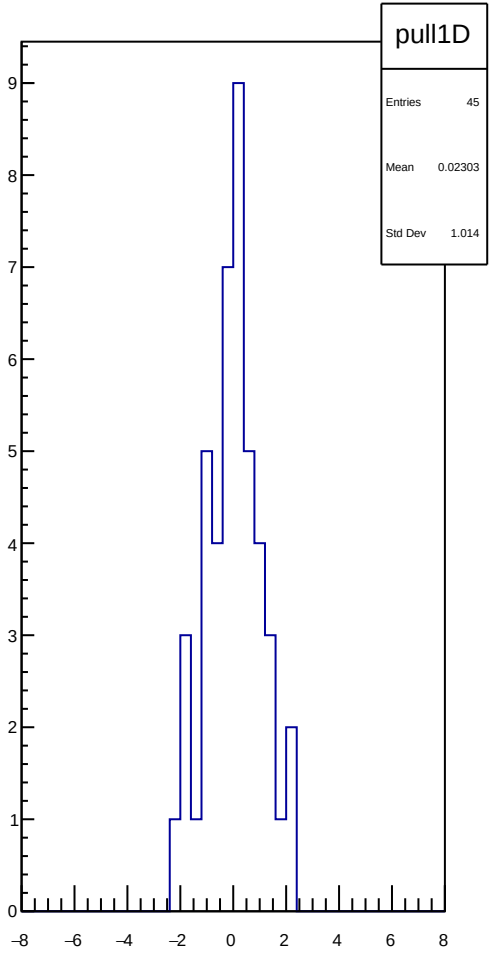

reg_asym_atl1r2_avg_diff_bpm11X_slope vs run
χ² / ndf 44.67 / 44
p0 −15.72 ± 2.778
pull
Entries 45
Mean −197.4
Std Dev 229.2

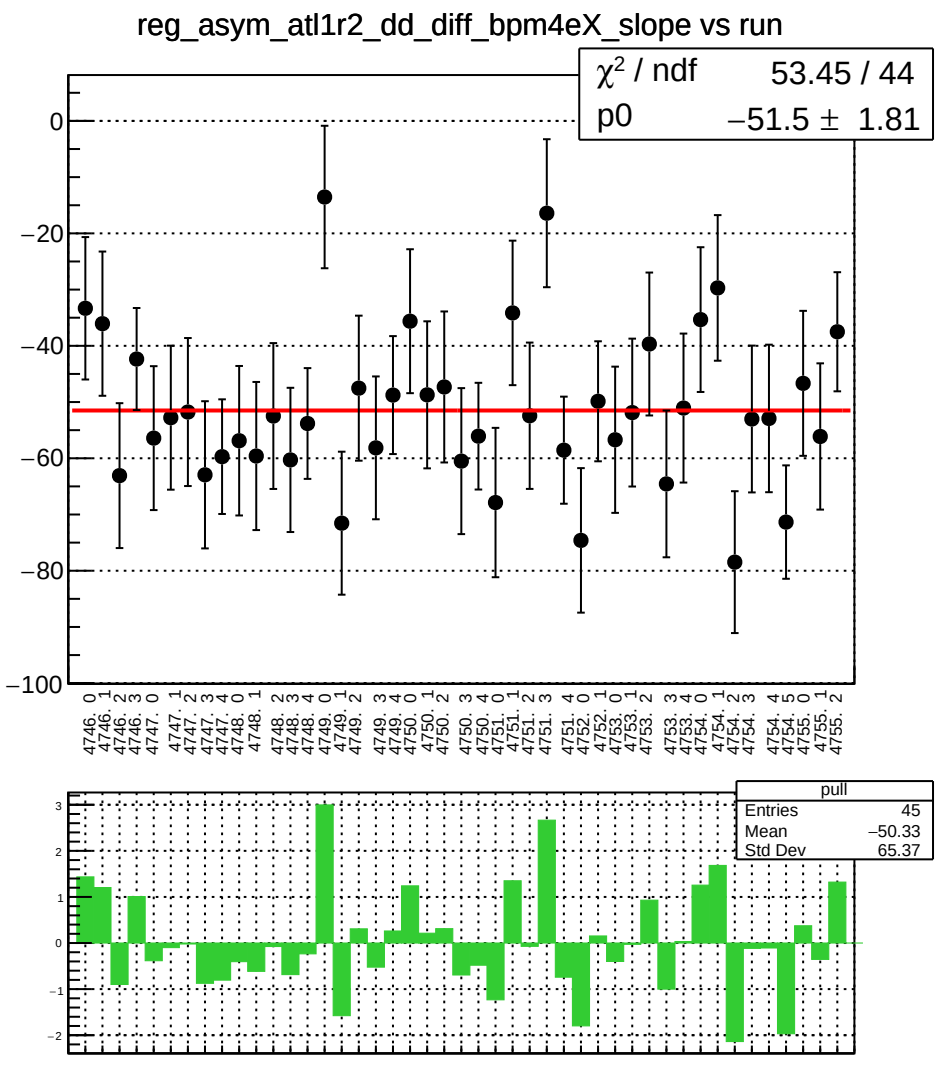

pull1D
Entries 45
Mean 0.007657
Std Dev 0.9963

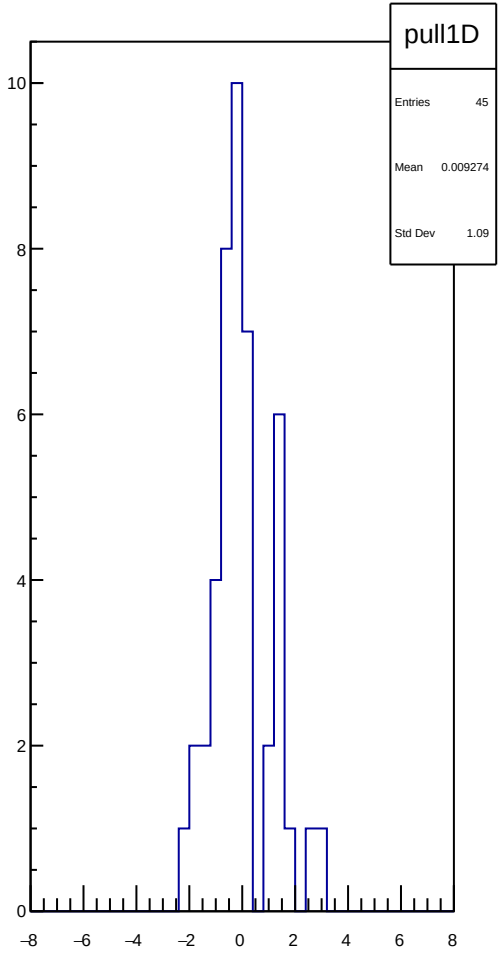

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 42.08 / 44
p0 34.05 ± 9
pull
Entries 45
Mean −237
Std Dev 261.1

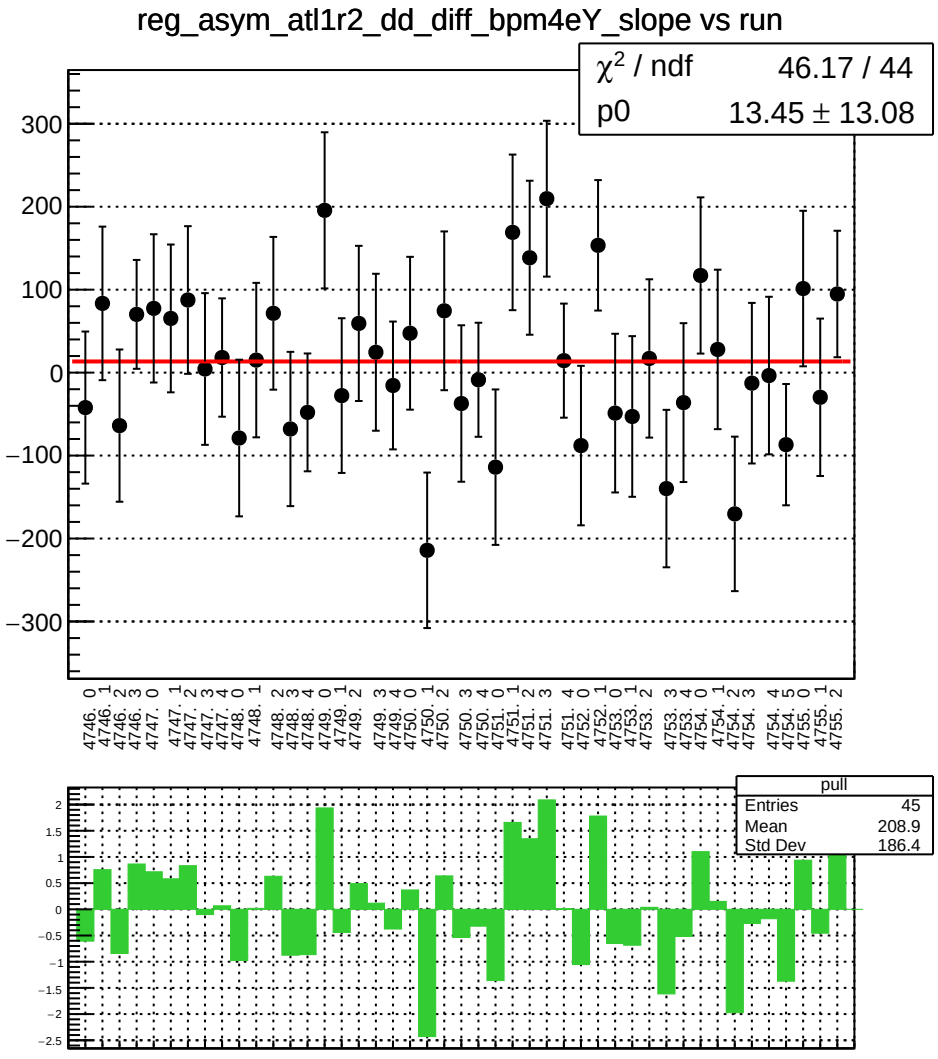

pull1D
Entries 45
Mean −0.007959
Std Dev 0.9669

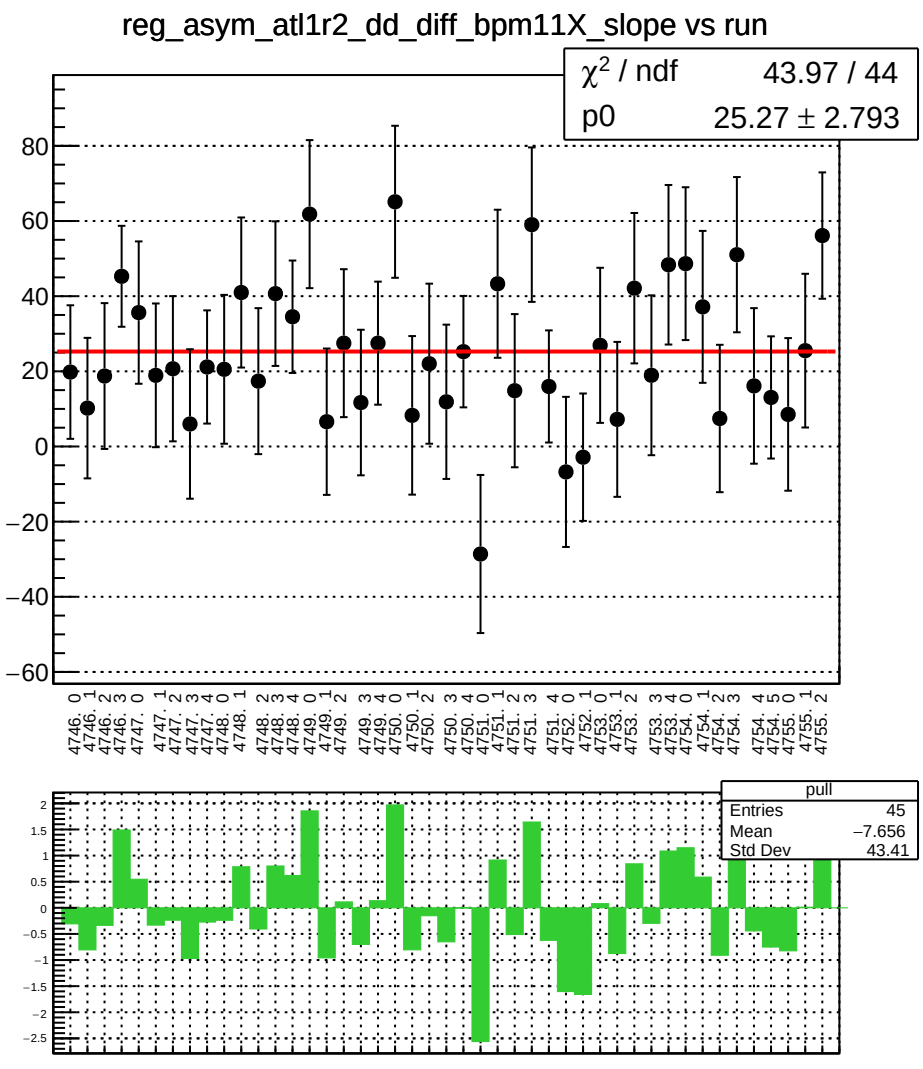

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 46.33 / 44
p0 −7.815 ± 11.24
300
200
100
0
−100
−200
−300
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 56.55
Std Dev 38.04
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

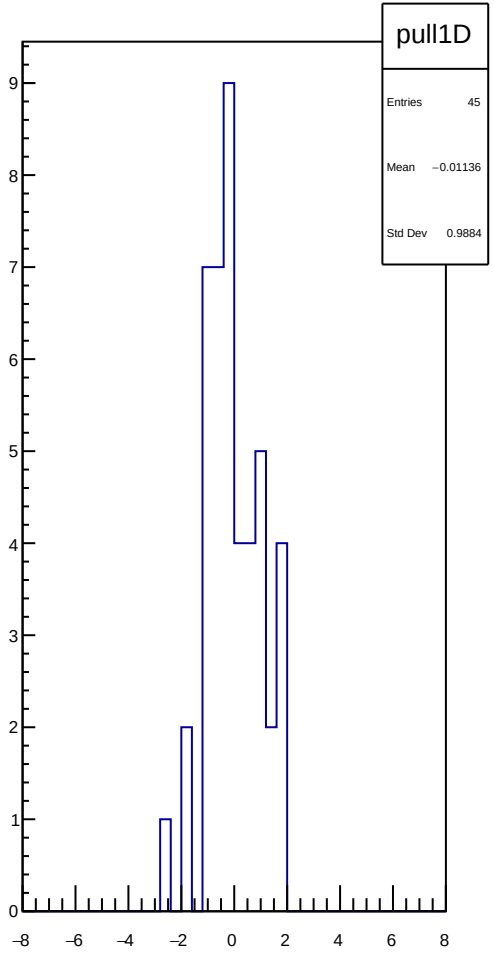

pull1D
Entries 45
Mean 0.02303
Std Dev 1.014
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

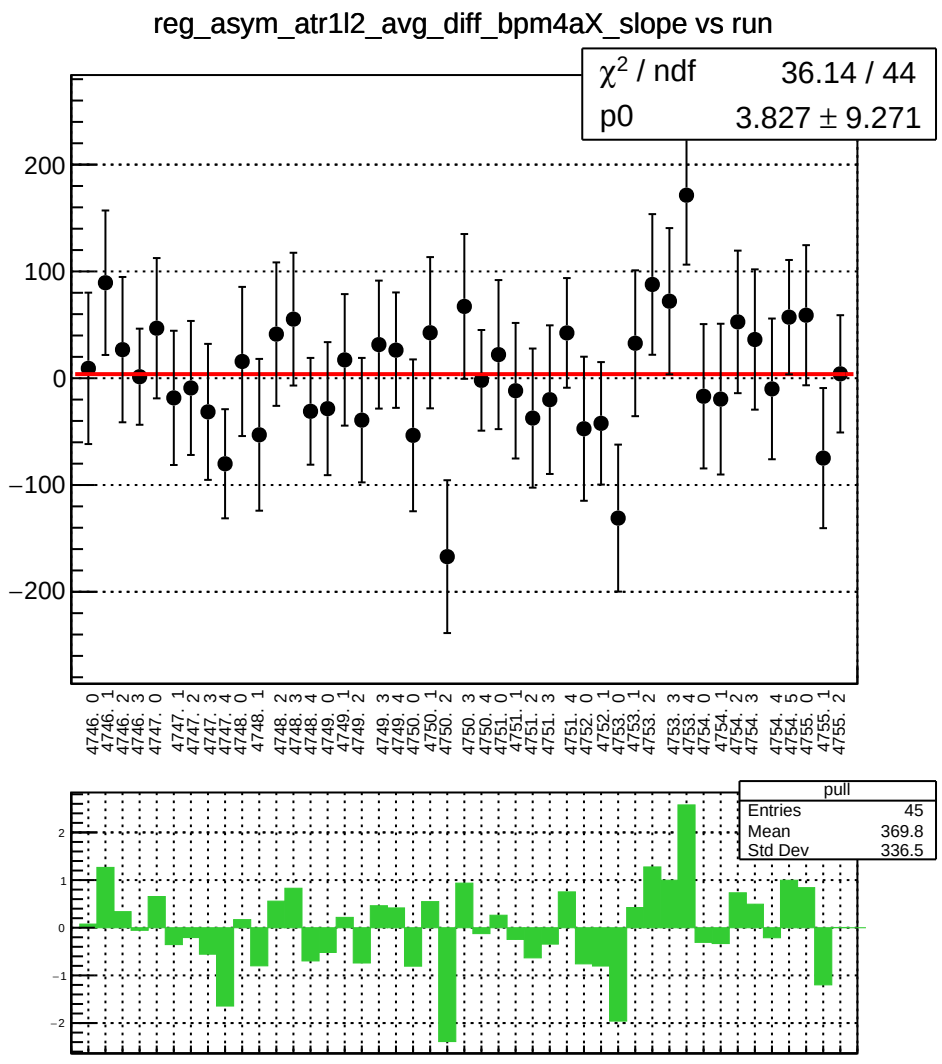

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 53.45 / 44
p0 −51.5 ± 1.81
pull
Entries 45
Mean −50.33
Std Dev 65.37

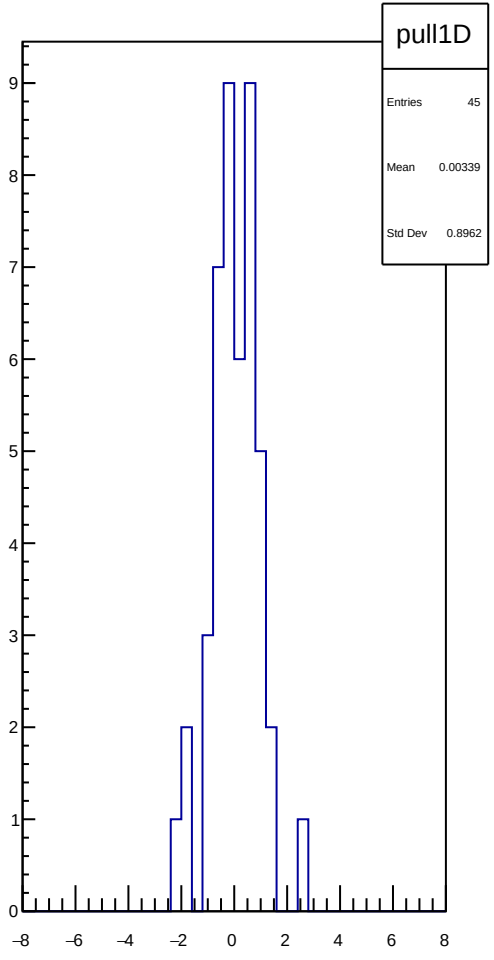

pull1D
Entries 45
Mean 0.009274
Std Dev 1.09

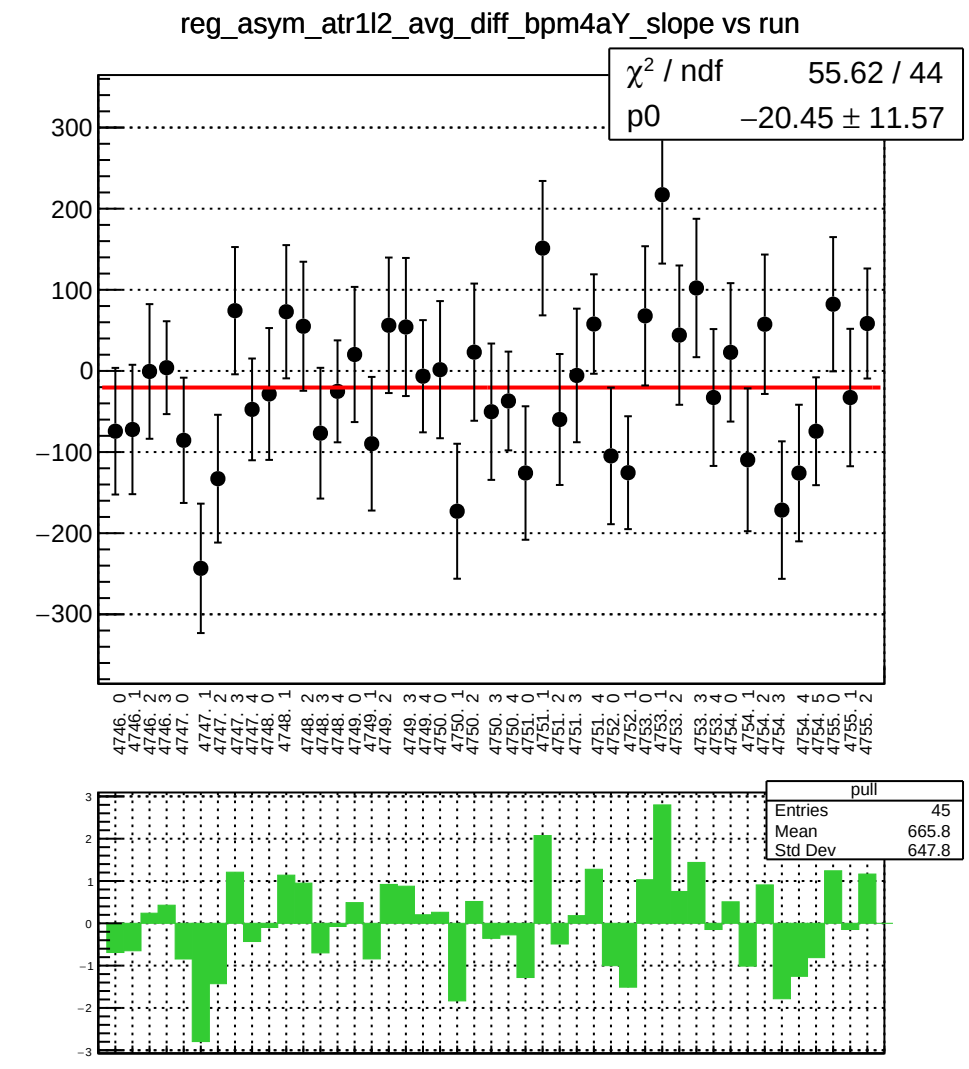

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.17 / 44
p0 13.45 ± 13.08
300
200
100
0
−100
−200
−300
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 208.9
Std Dev 186.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.006638
Std Dev 1.013
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

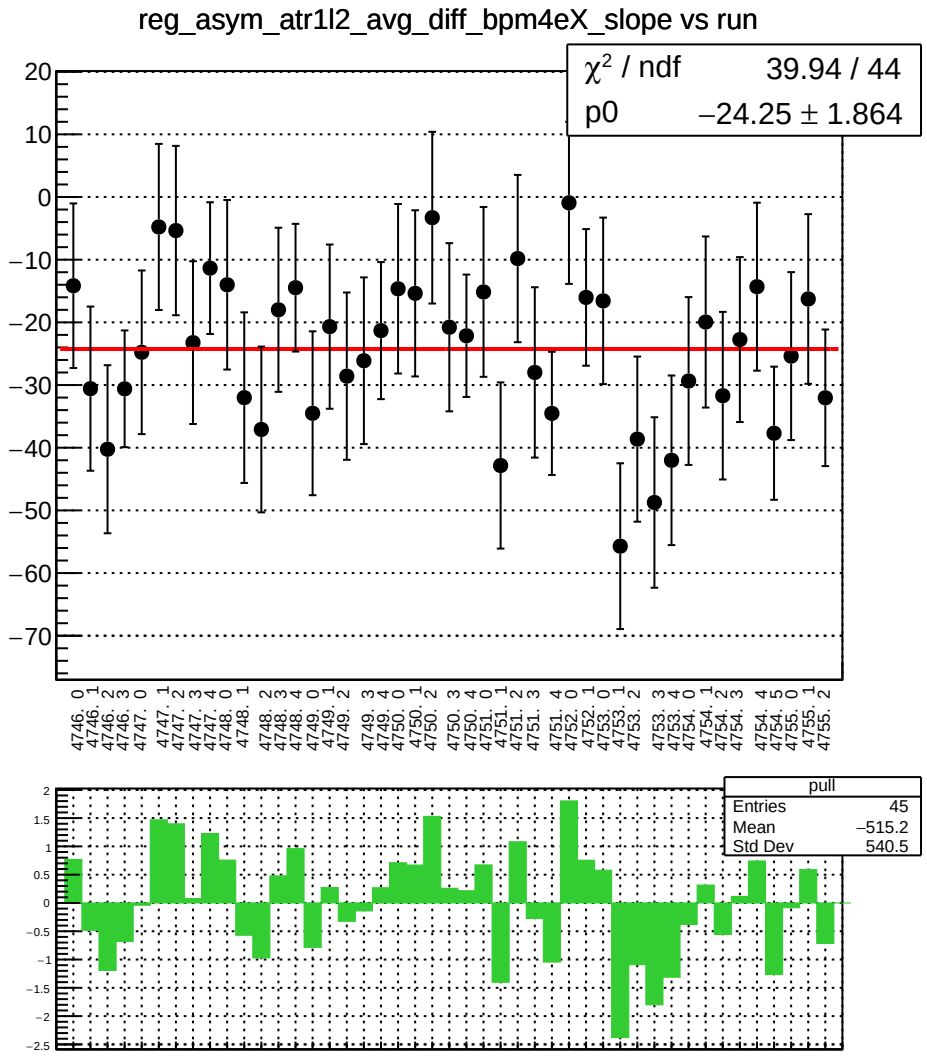

reg_asym_atl1r2_dd_diff_bpm11X_slope vs run
χ² / ndf 43.97 / 44
p0 25.27 ± 2.793
pull
Entries 45
Mean −7.656
Std Dev 43.41

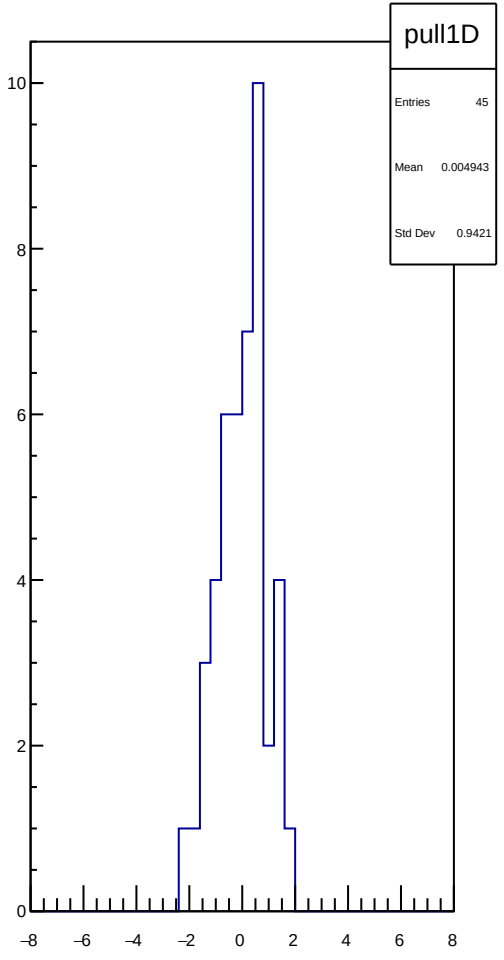

pull1D
Entries 45
Mean −0.01136
Std Dev 0.9884

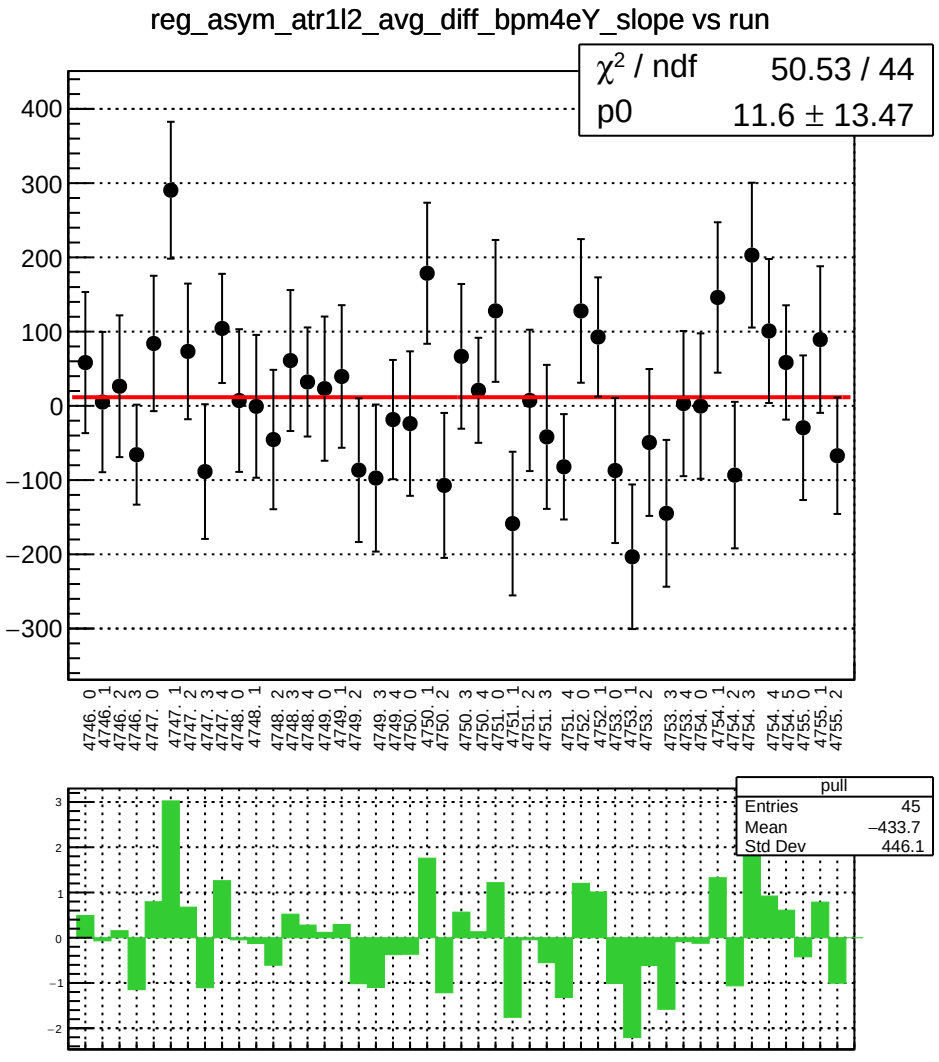

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 36.14 / 44
p0 3.827 ± 9.271
200
100
0
−100
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 369.8
Std Dev 336.5
2
1
0
−1
−2

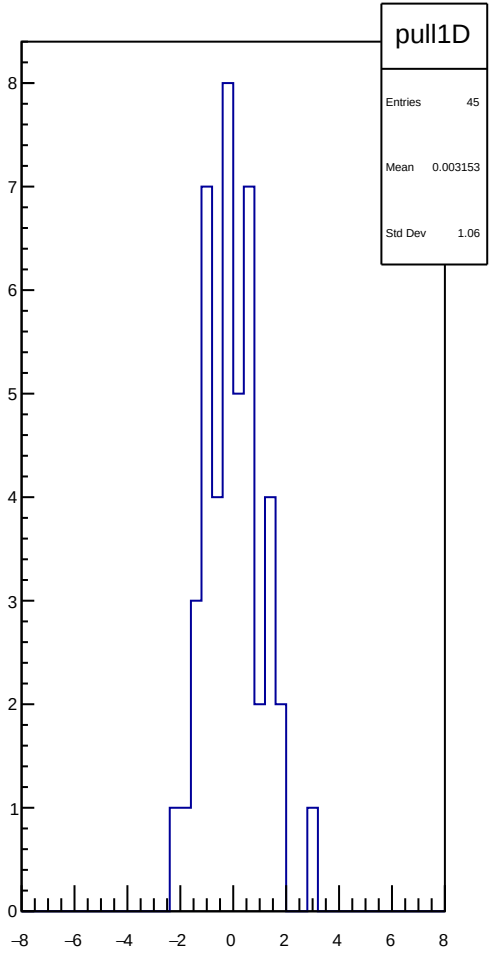

pull1D
Entries 45
Mean 0.00339
Std Dev 0.8962
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

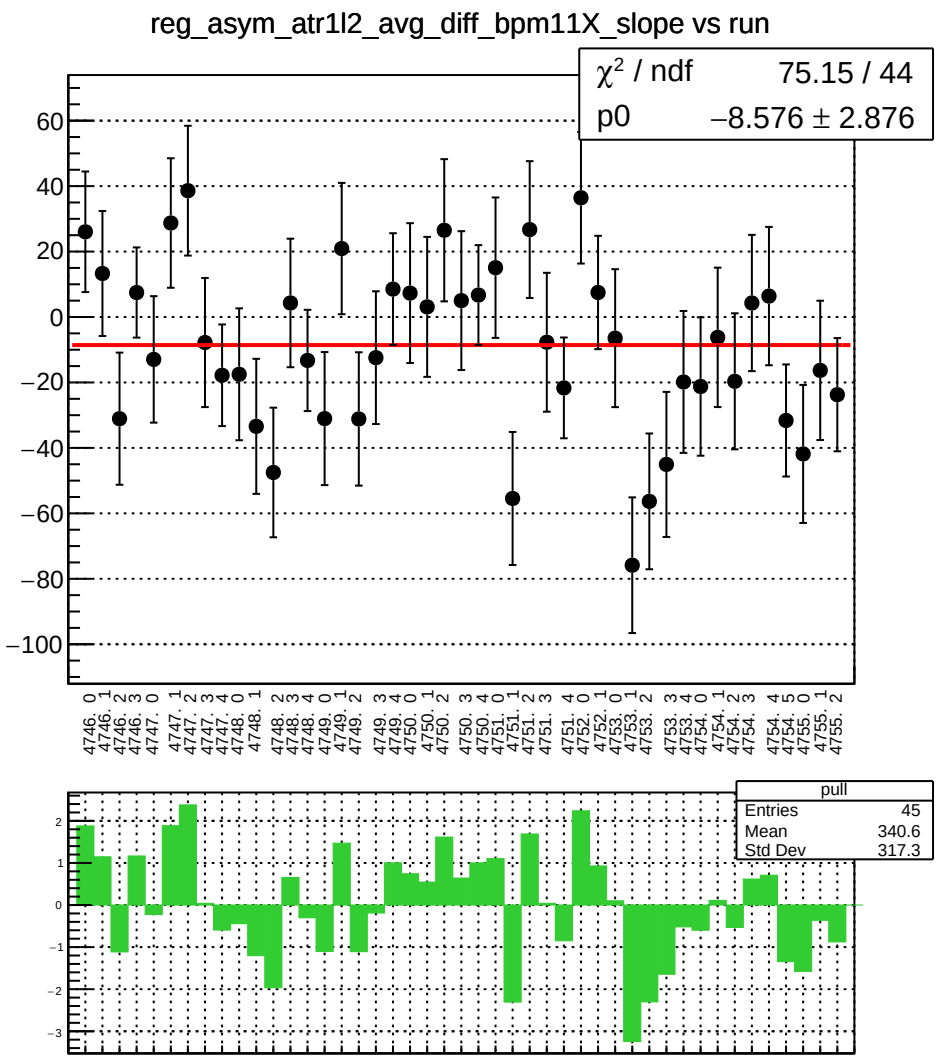

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 55.62 / 44
p0 −20.45 ± 11.57
300
200
100
0
−100
−200
−300
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 665.8
Std Dev 647.8
3
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.003633
Std Dev 1.112
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

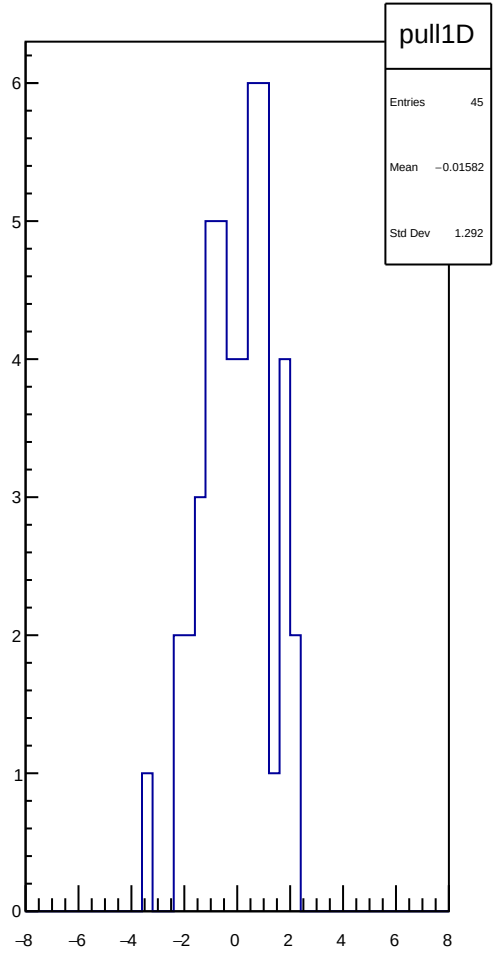

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 39.94 / 44
p0 −24.25 ± 1.864
pull
Entries 45
Mean −515.2
Std Dev 540.5

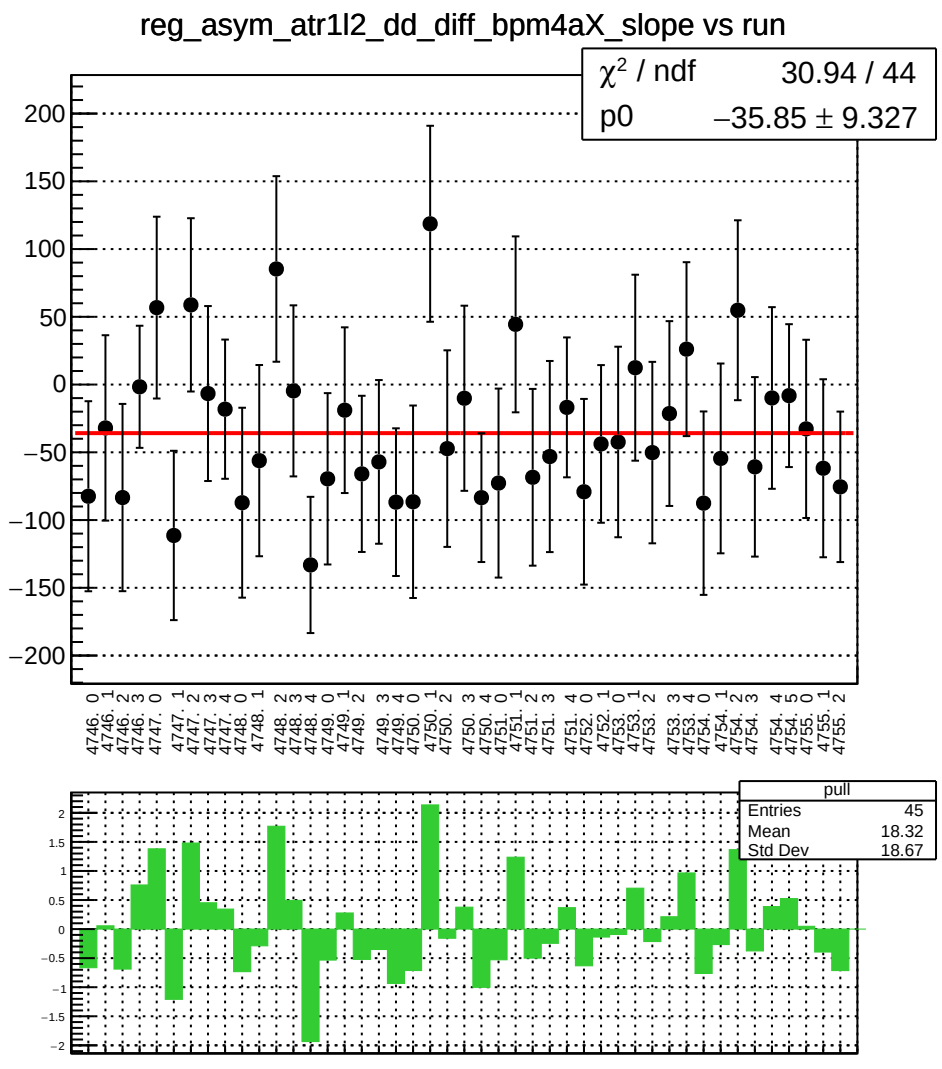

pull1D
Entries 45
Mean 0.004943
Std Dev 0.9421

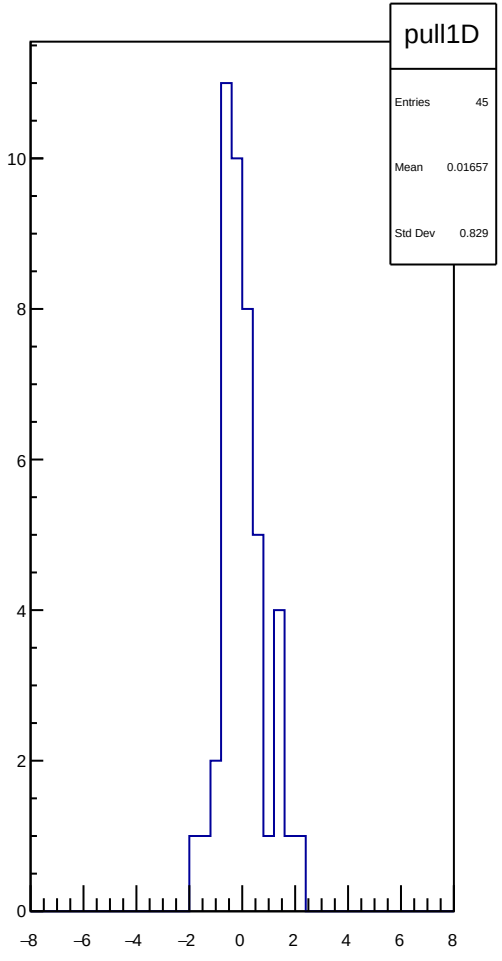

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 50.53 / 44
p0 11.6 ± 13.47
pull
Entries 45
Mean −433.7
Std Dev 446.1

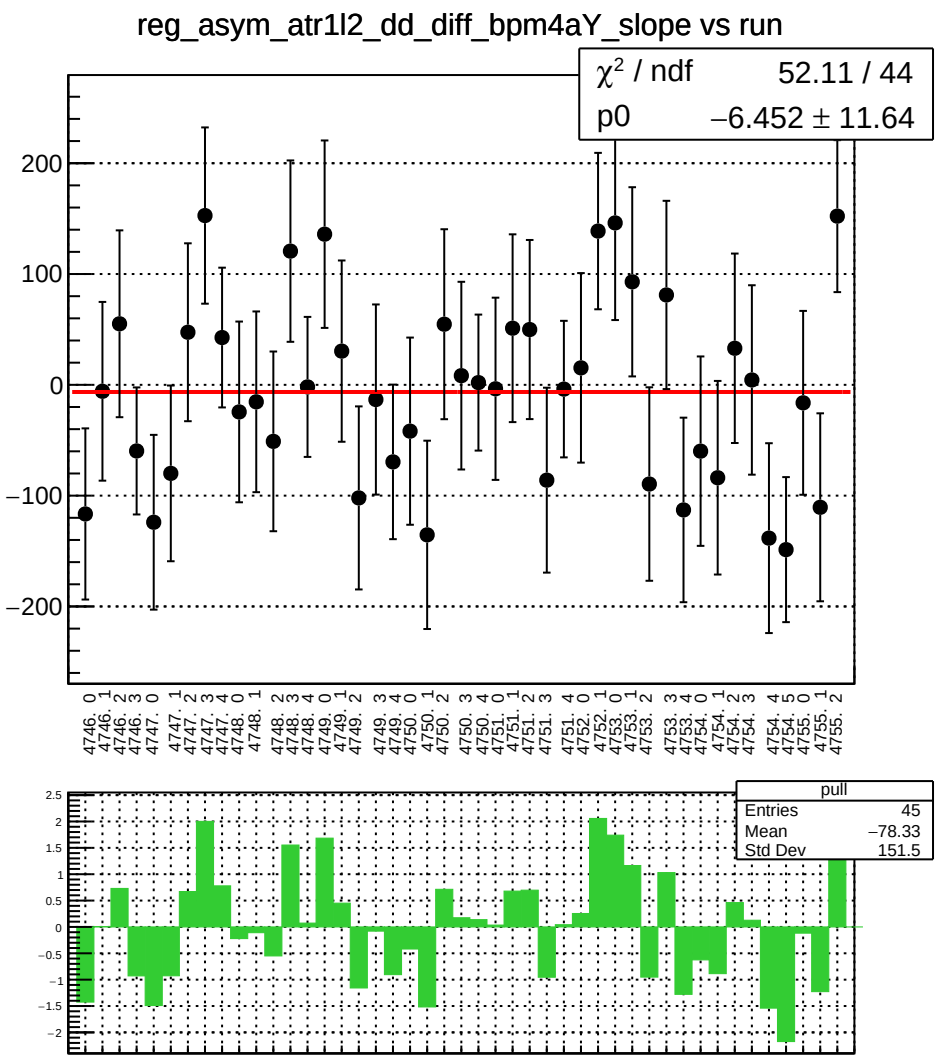

pull1D
Entries 45
Mean 0.003153
Std Dev 1.06

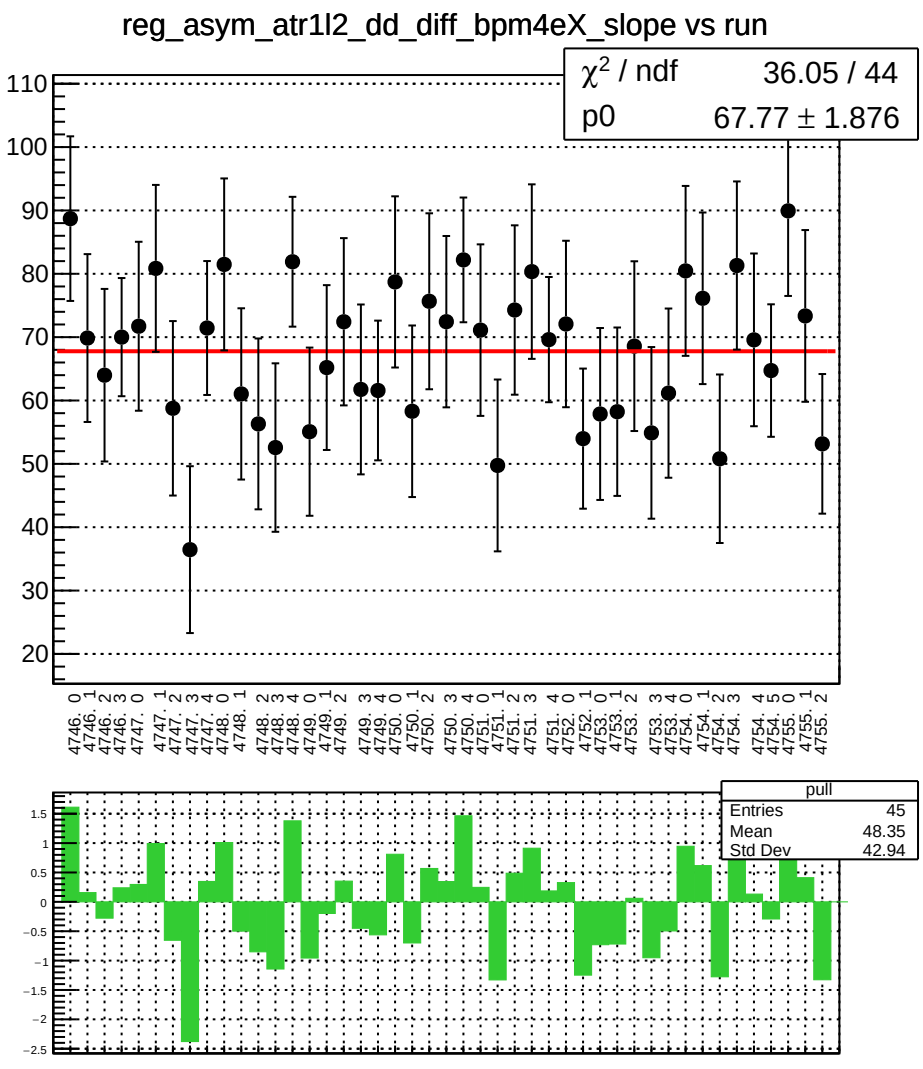

reg_asym_atr1l2_avg_diff_bpm11X_slope vs run
χ² / ndf 75.15 / 44
p0 −8.576 ± 2.876
pull
Entries 45
Mean 340.6
Std Dev 317.3

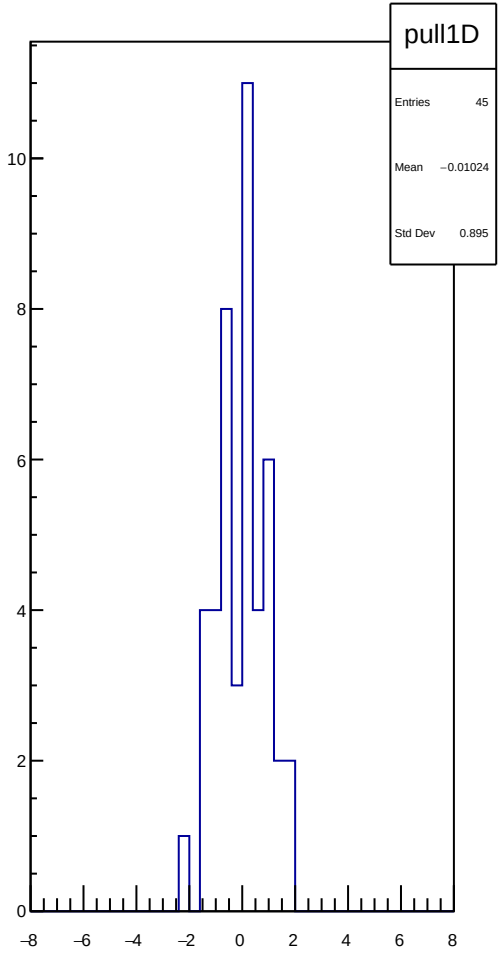

pull1D
Entries 45
Mean −0.01582
Std Dev 1.292

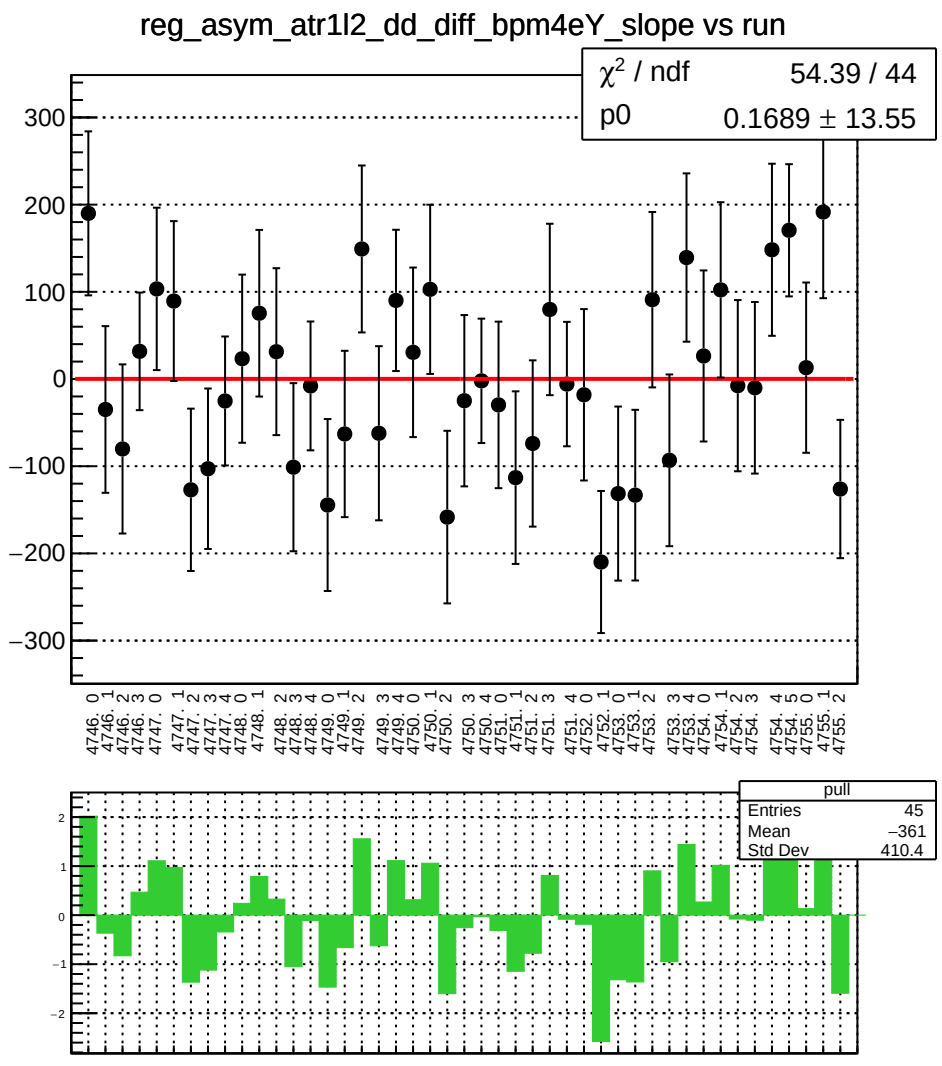

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 30.94 / 44
p0 −35.85 ± 9.327
pull
Entries 45
Mean 18.32
Std Dev 18.67

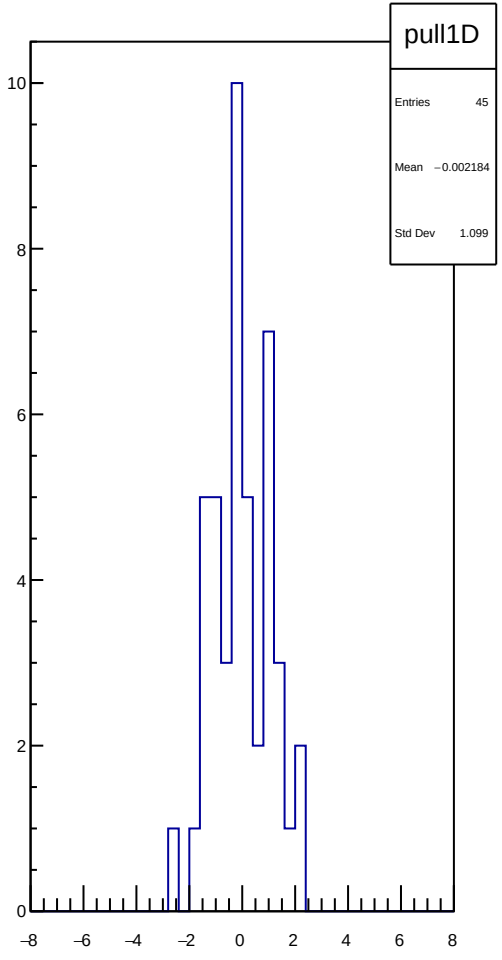

pull1D
Entries 45
Mean 0.01657
Std Dev 0.829

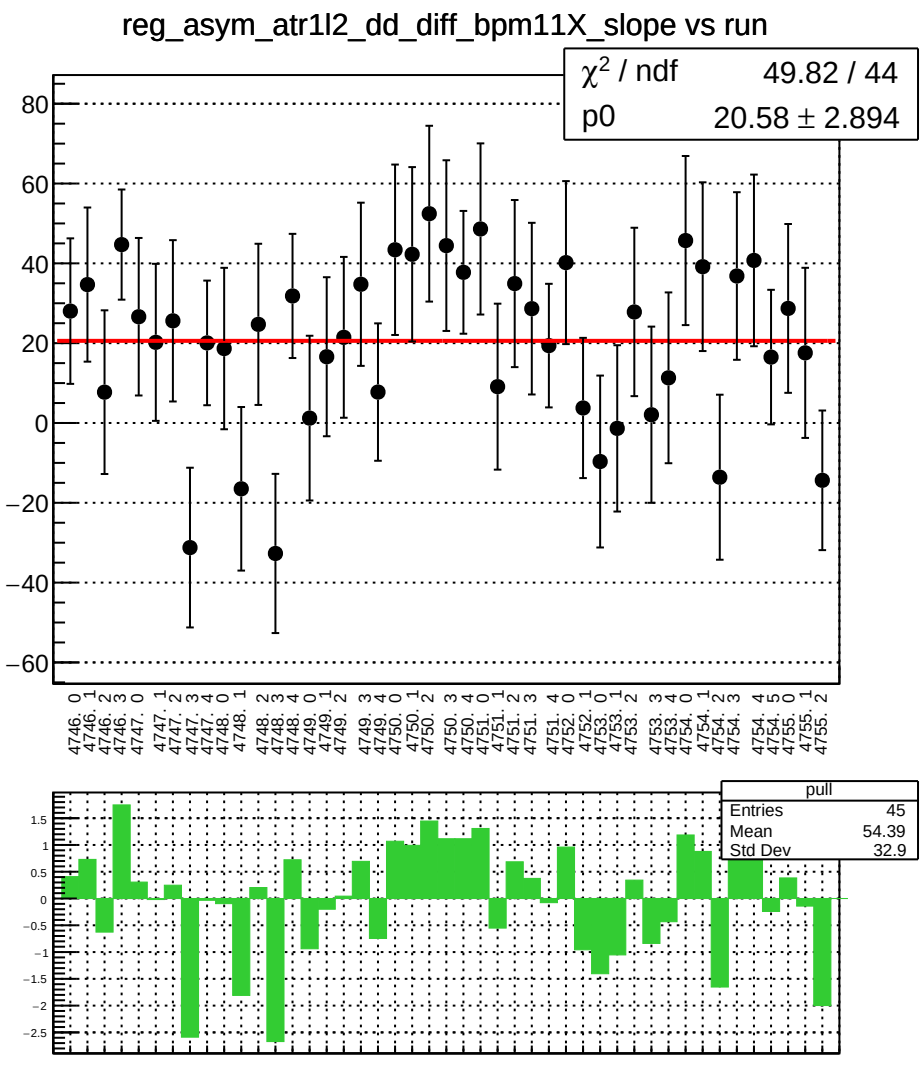

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 52.11 / 44
p0 −6.452 ± 11.64
200
100
0
−100
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −78.33
Std Dev 151.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.00227
Std Dev 1.076
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

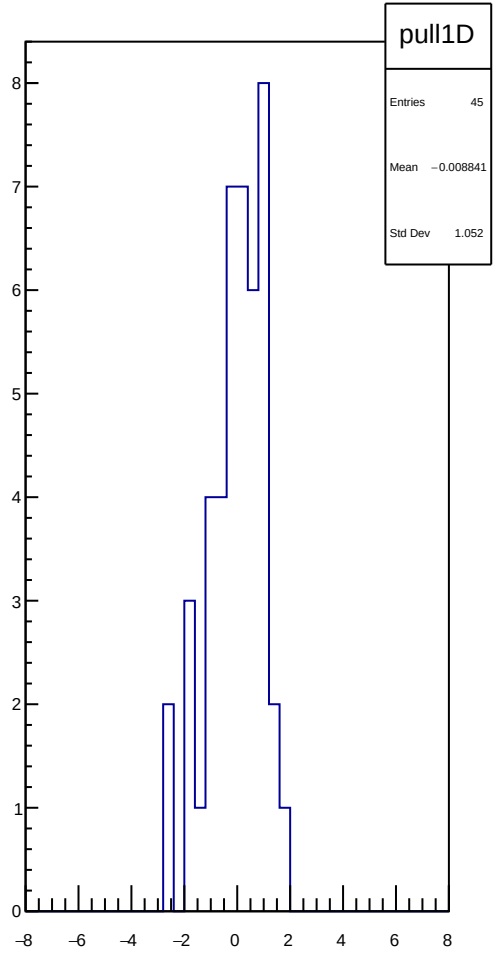

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.05 / 44
p0 67.77 ± 1.876
pull
Entries 45
Mean 48.35
Std Dev 42.94

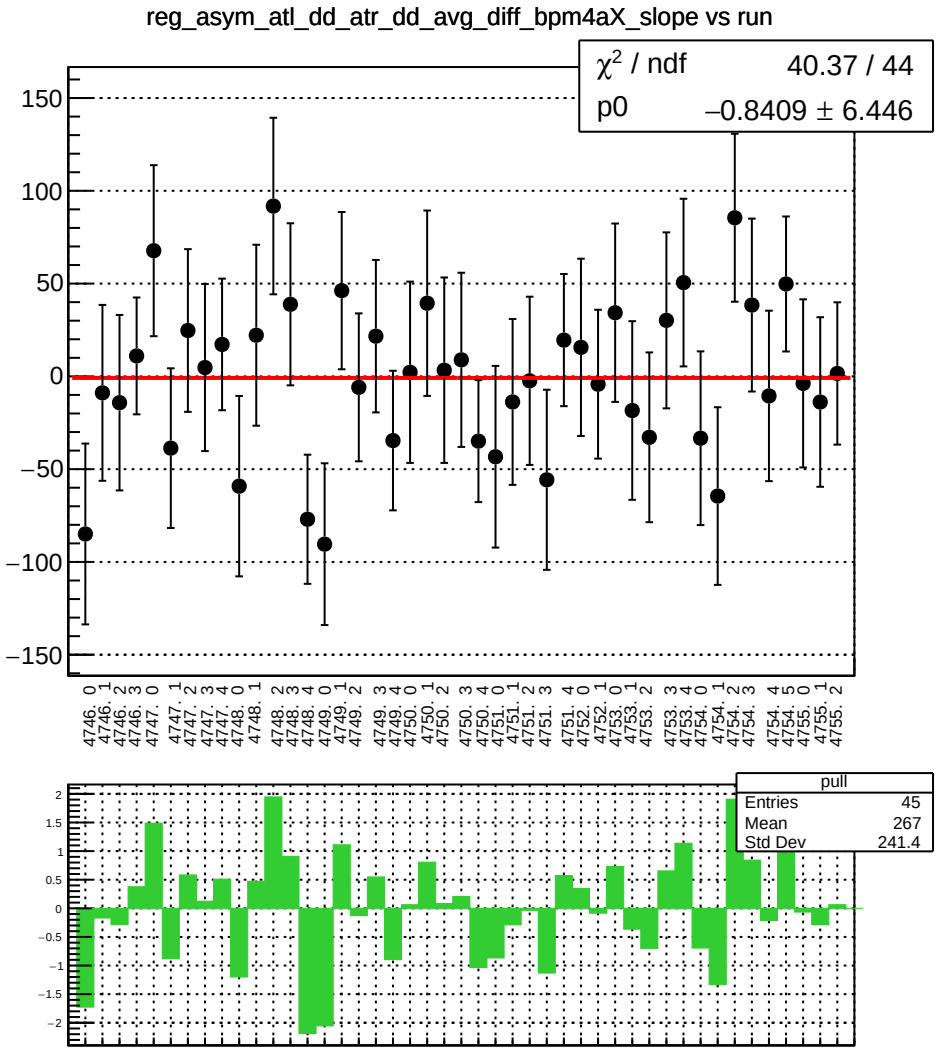

pull1D
Entries 45
Mean −0.01024
Std Dev 0.895

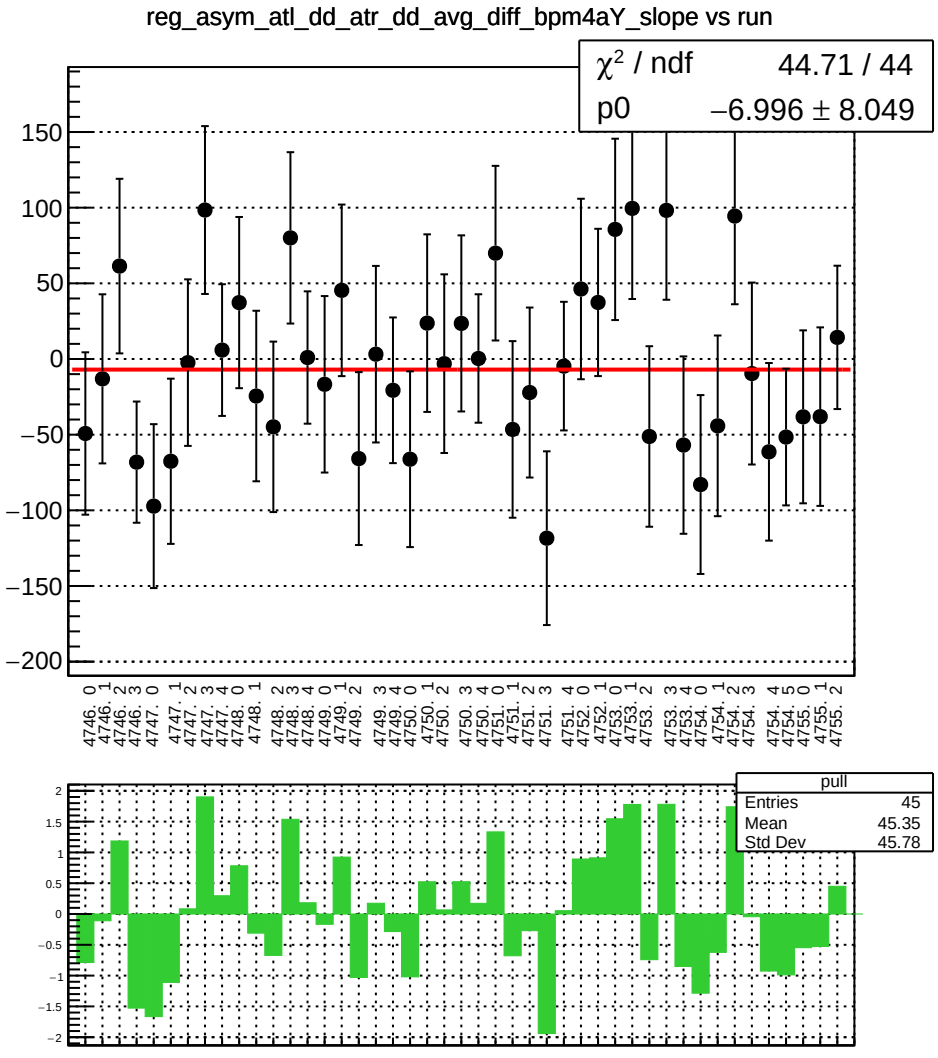

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 54.39 / 44
p0 0.1689 ± 13.55
300
200
100
0
−100
−200
−300
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −361
Std Dev 410.4
2
1
0
−1
−2

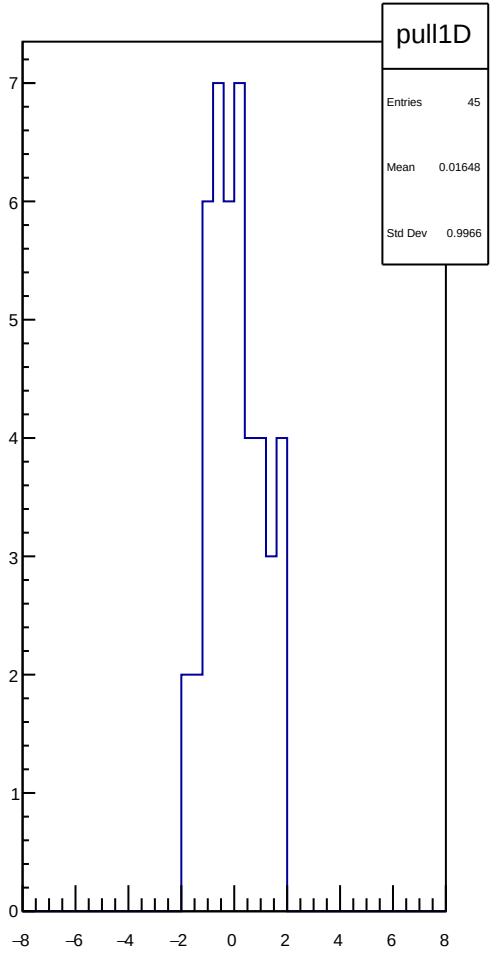

pull1D
Entries 45
Mean −0.002184
Std Dev 1.099
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

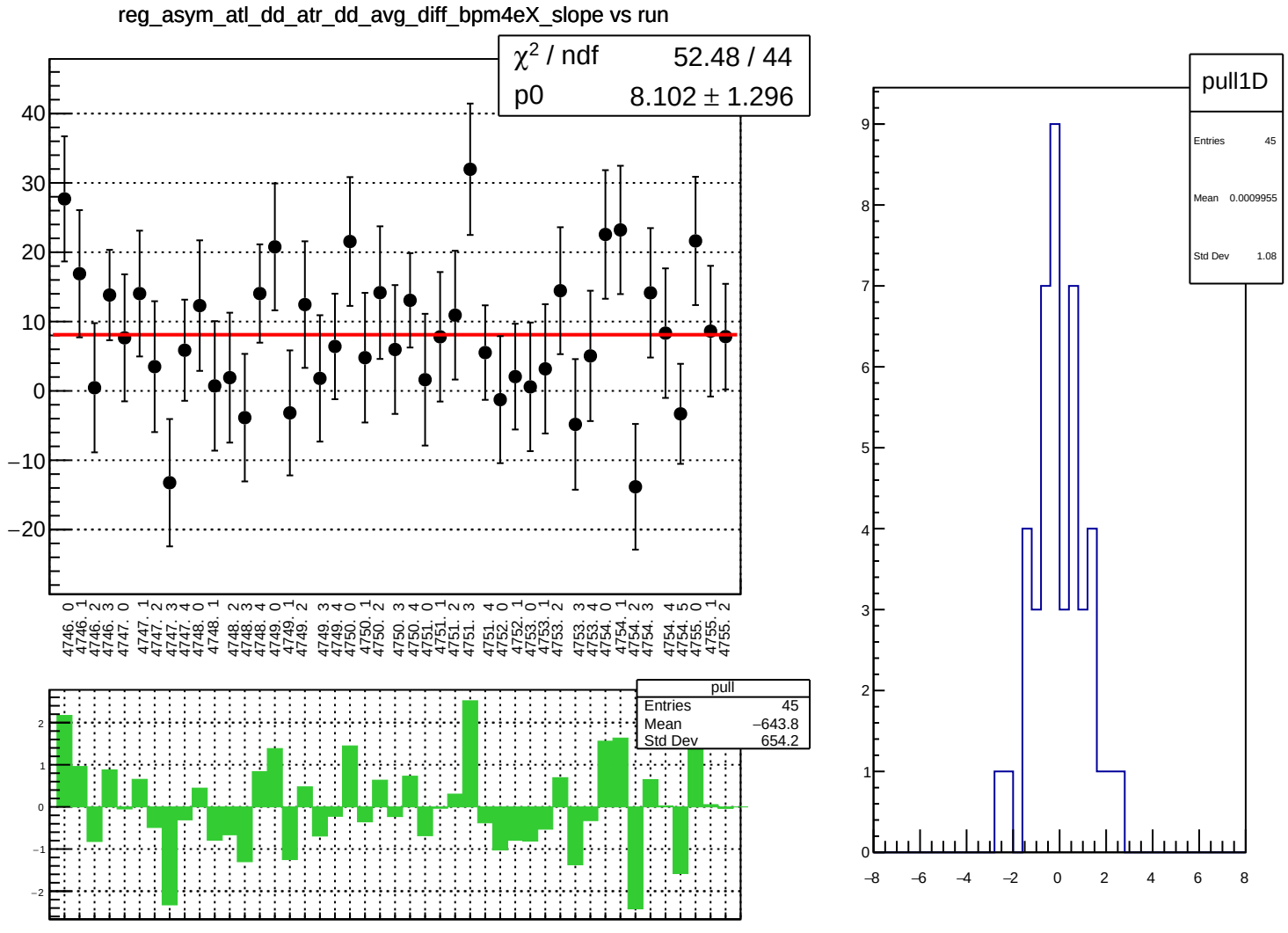

reg_asym_atr1l2_dd_diff_bpm11X_slope vs run
χ² / ndf 49.82 / 44
p0 20.58 ± 2.894
pull
Entries 45
Mean 54.39
Std Dev 32.9

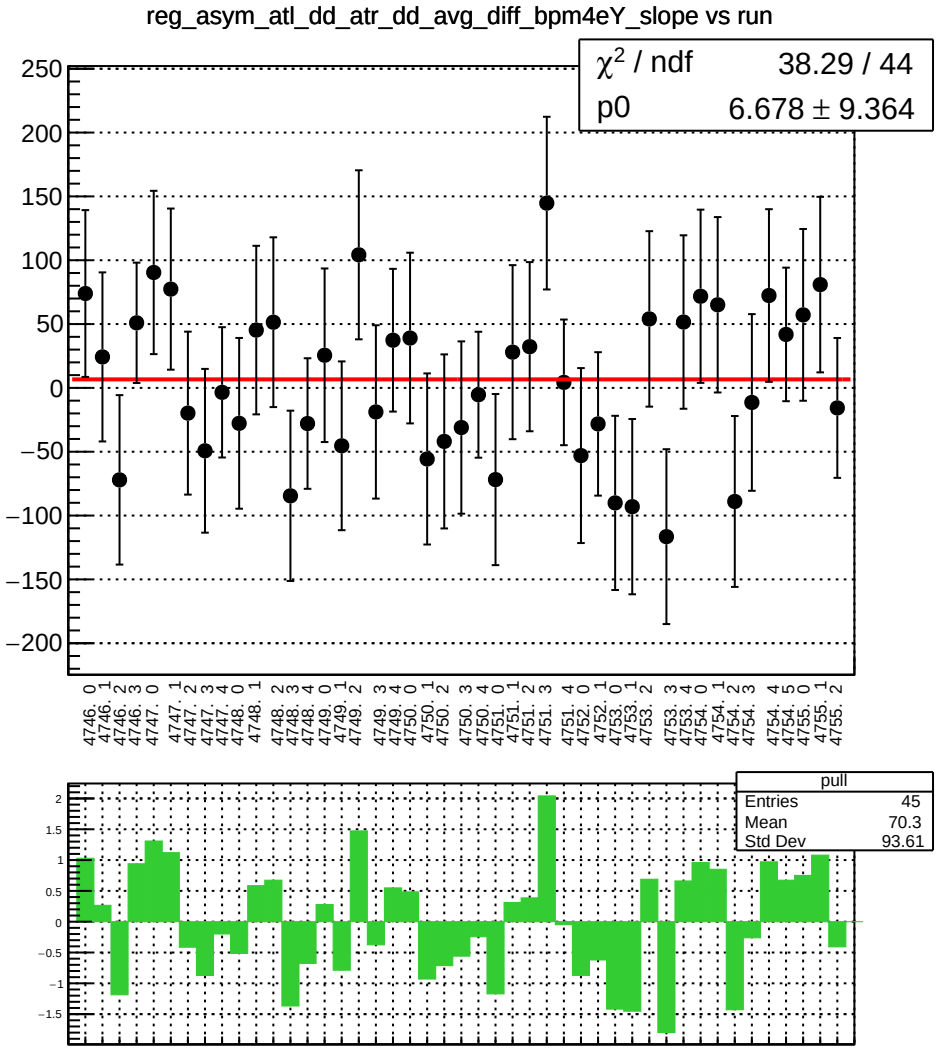

pull1D
Entries 45
Mean −0.008841
Std Dev 1.052

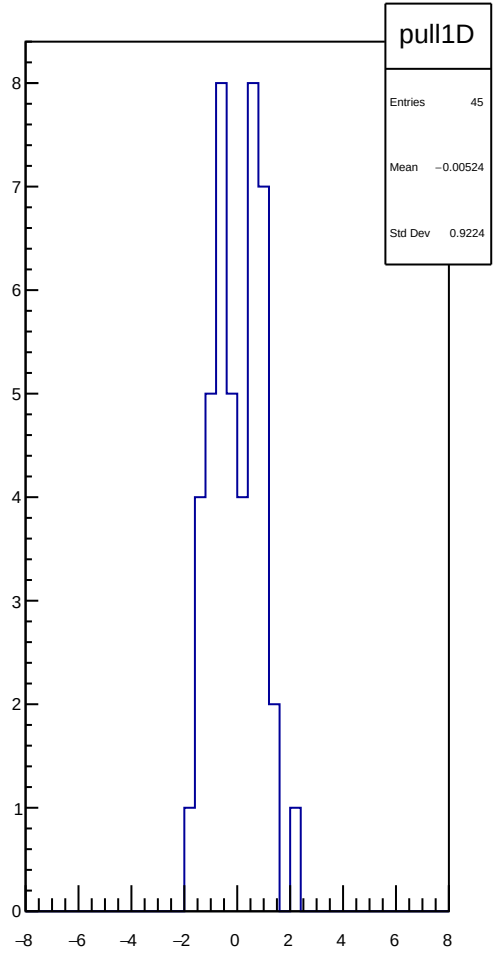

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 40.37 / 44
p0 −0.8409 ± 6.446
150
100
50
0
−50
−100
−150
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 267
Std Dev 241.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.00572
Std Dev 0.9472
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

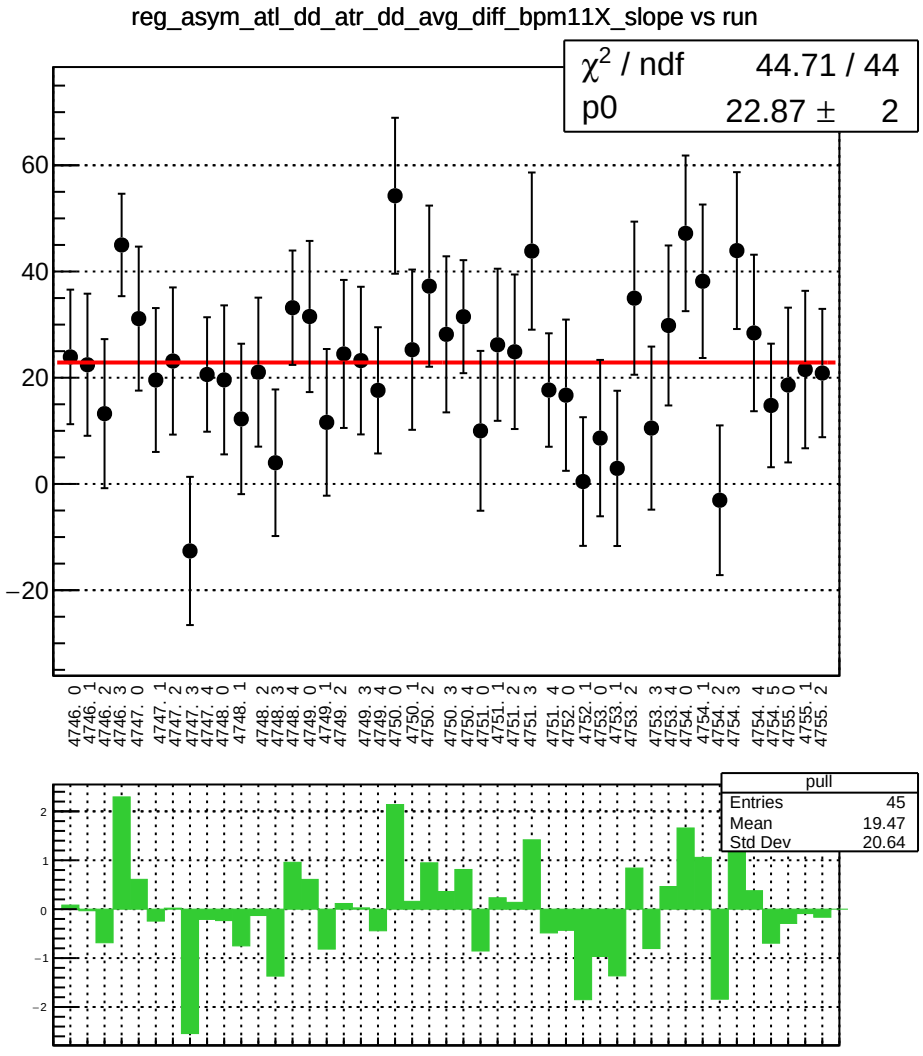

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 44.71 / 44
p0 −6.996 ± 8.049
150
100
50
0
−50
−100
−150
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 45.35
Std Dev 45.78
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

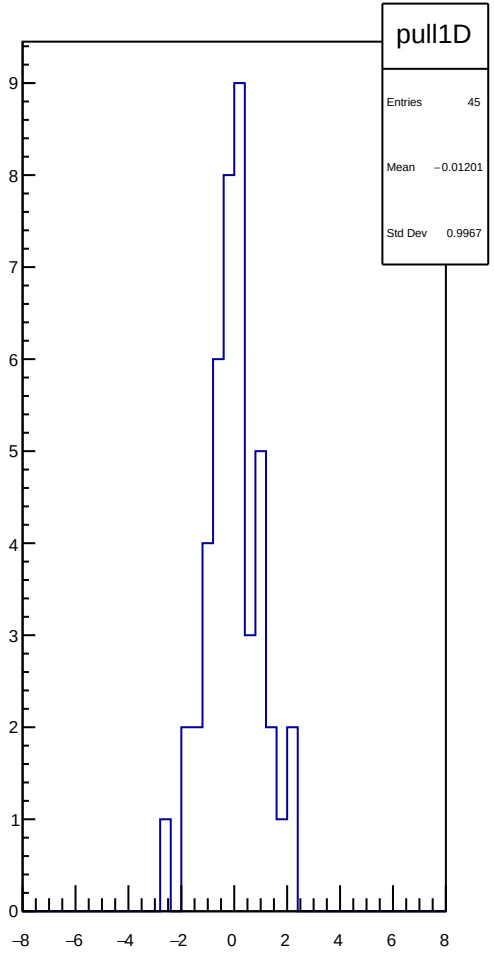

pull1D
Entries 45
Mean 0.01648
Std Dev 0.9966
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

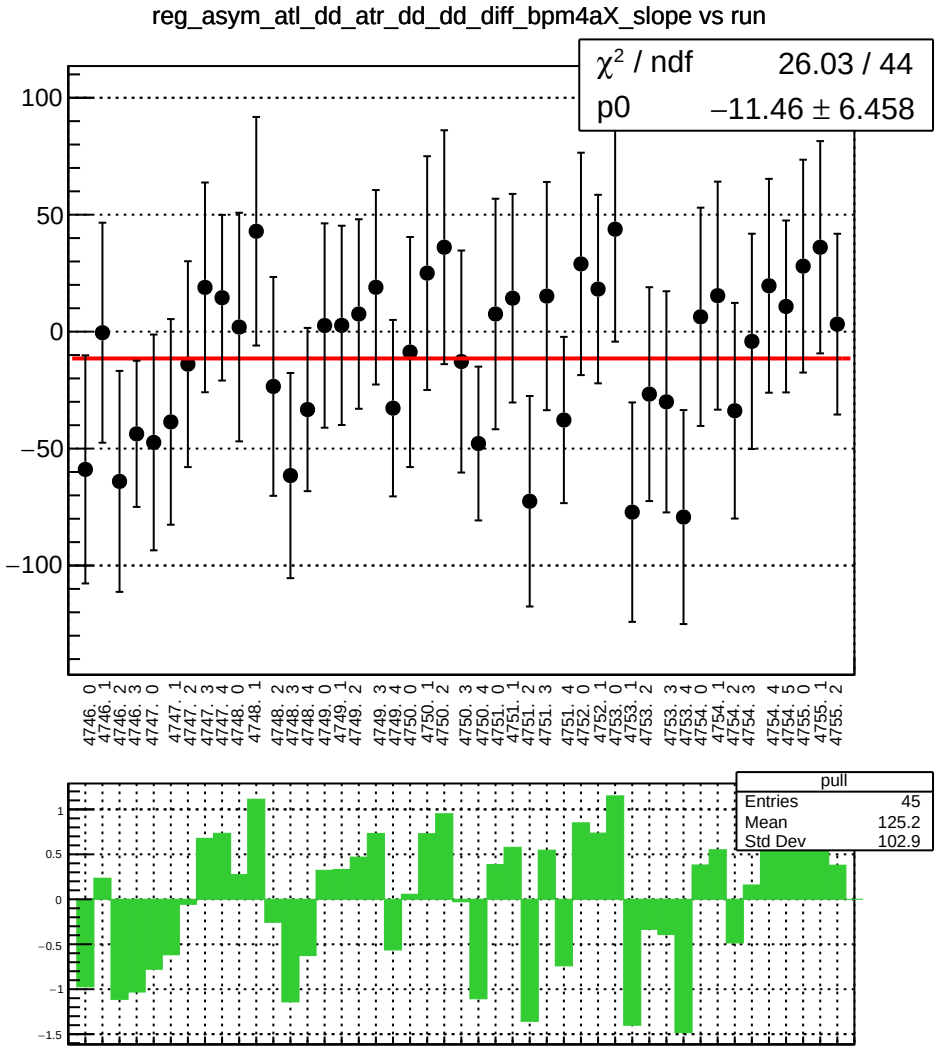

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 52.48 / 44
p0 8.102 ± 1.296
pull
Entries 45
Mean −643.8
Std Dev 654.2
pull1D
Entries 45
Mean 0.0009955
Std Dev 1.08

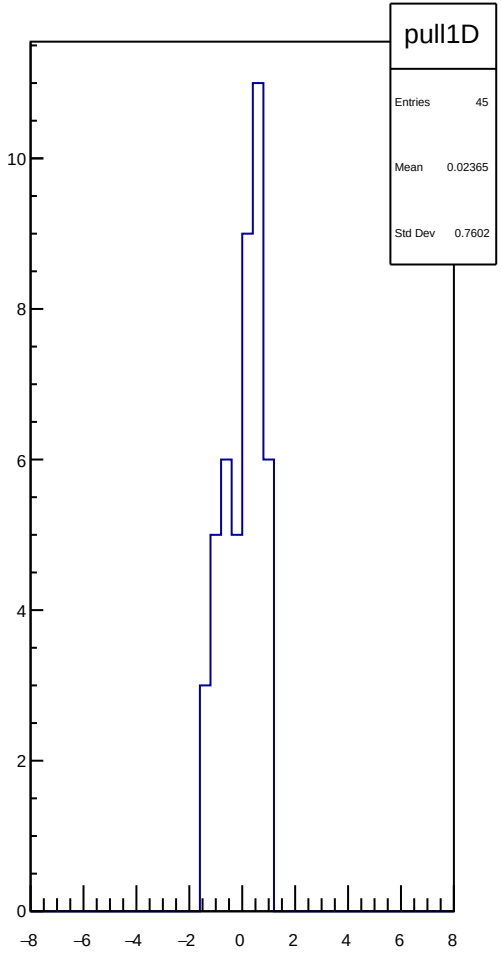

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 38.29 / 44
p0 6.678 ± 9.364
pull
Entries 45
Mean 70.3
Std Dev 93.61

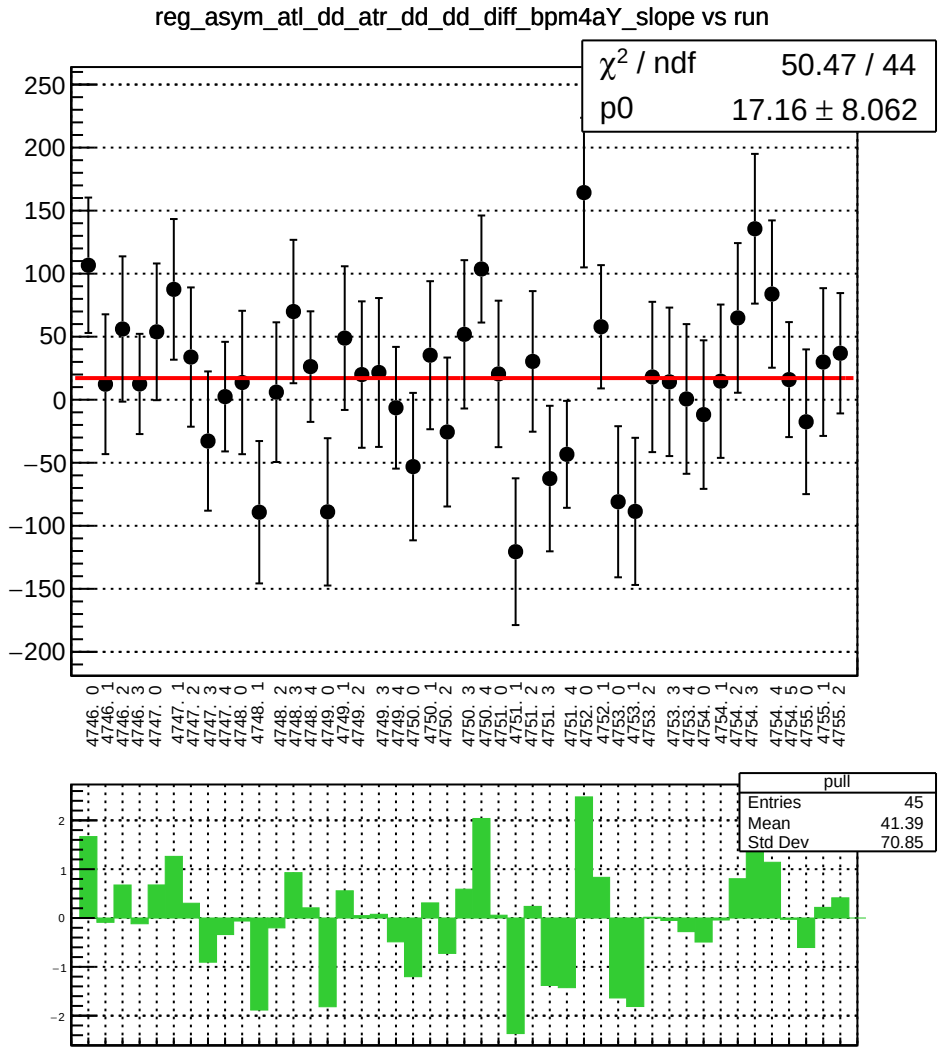

pull1D
Entries 45
Mean −0.00524
Std Dev 0.9224

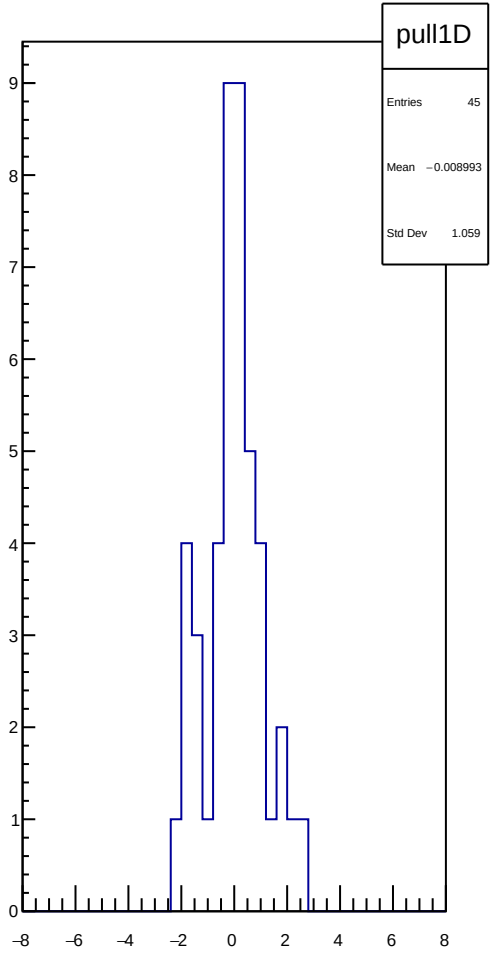

reg_asym_atl_dd_atr_dd_avg_diff_bpm11X_slope vs run
χ² / ndf 44.71 / 44
p0 22.87 ± 2
pull
Entries 45
Mean 19.47
Std Dev 20.64

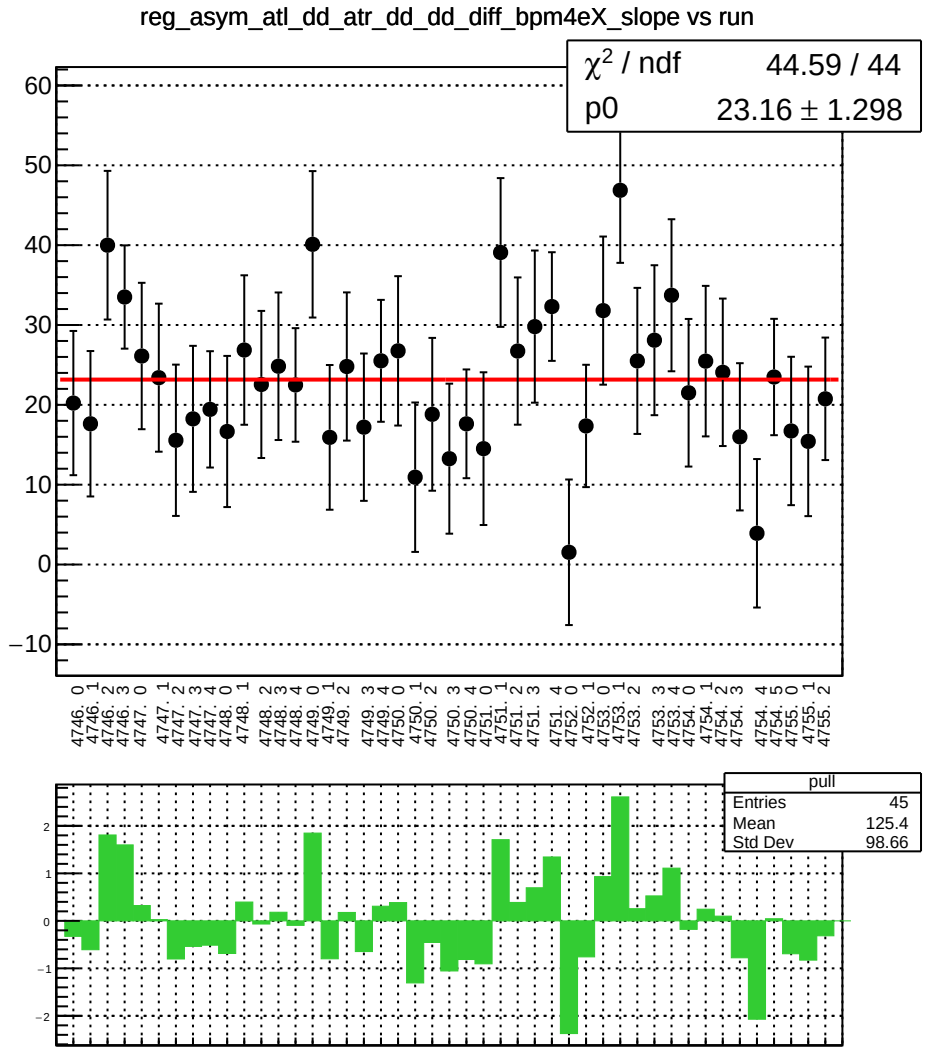

pull1D
Entries 45
Mean −0.01201
Std Dev 0.9967

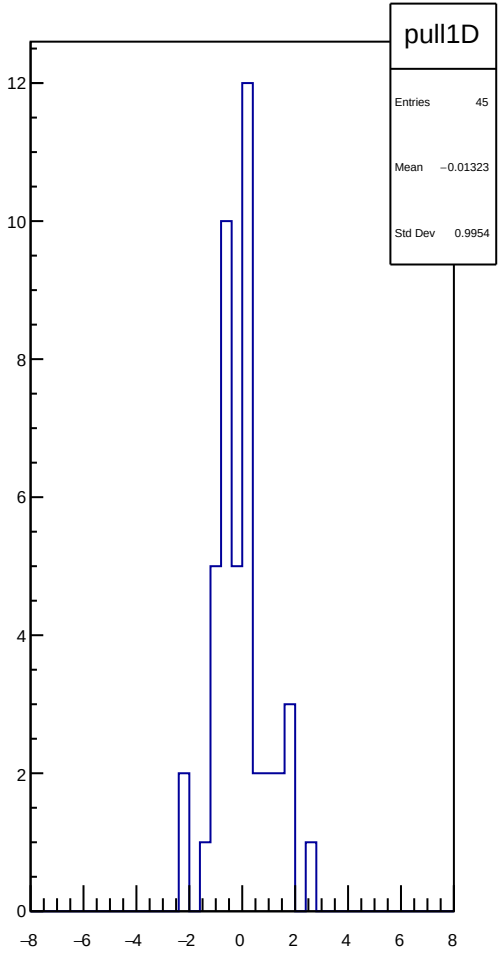

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 26.03 / 44
p0 −11.46 ± 6.458
100
50
0
−50
−100
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 125.2
Std Dev 102.9
1
0.5
0
−0.5
−1
−1.5

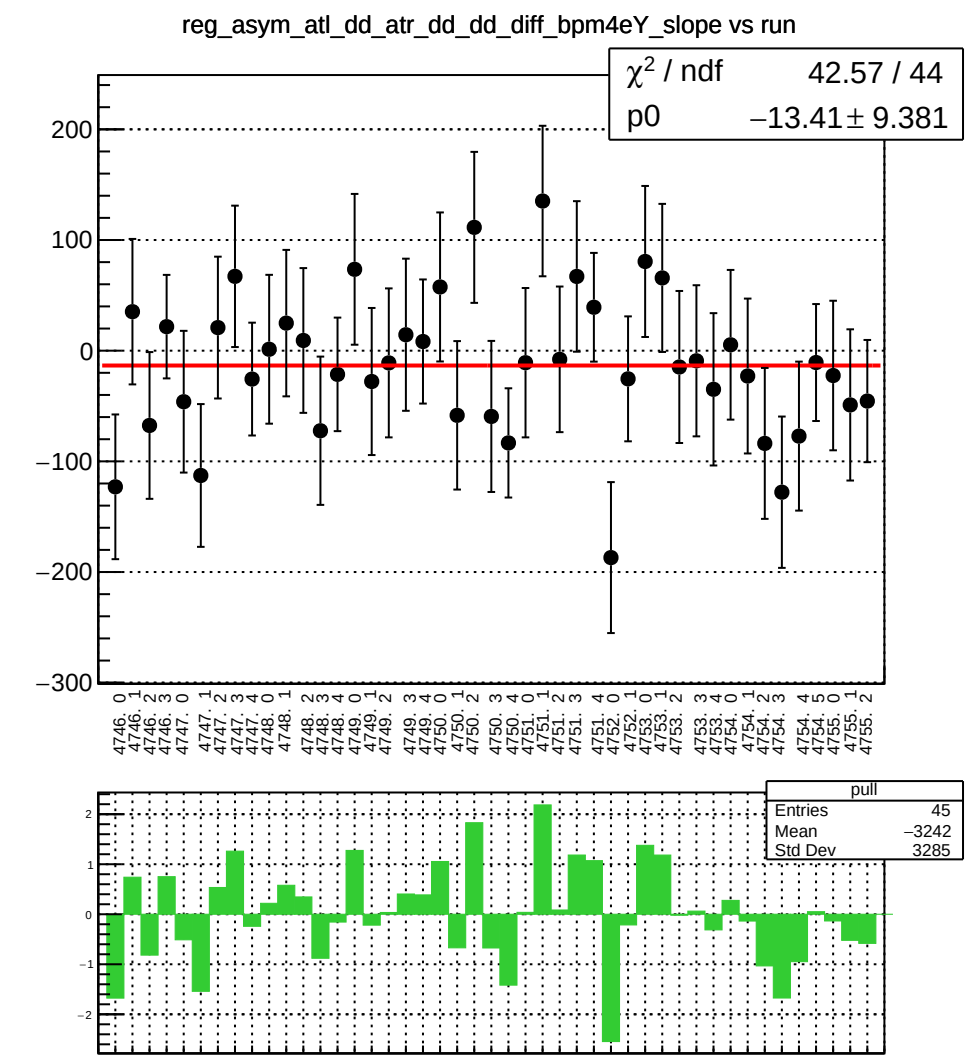

pull1D
Entries 45
Mean 0.02365
Std Dev 0.7602
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

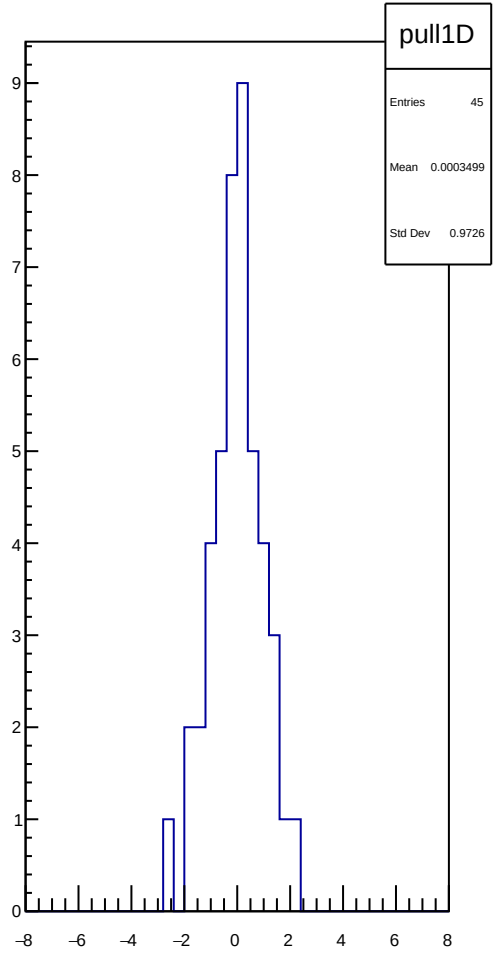

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.47 / 44
p0 17.16 ± 8.062
pull
Entries 45
Mean 41.39
Std Dev 70.85

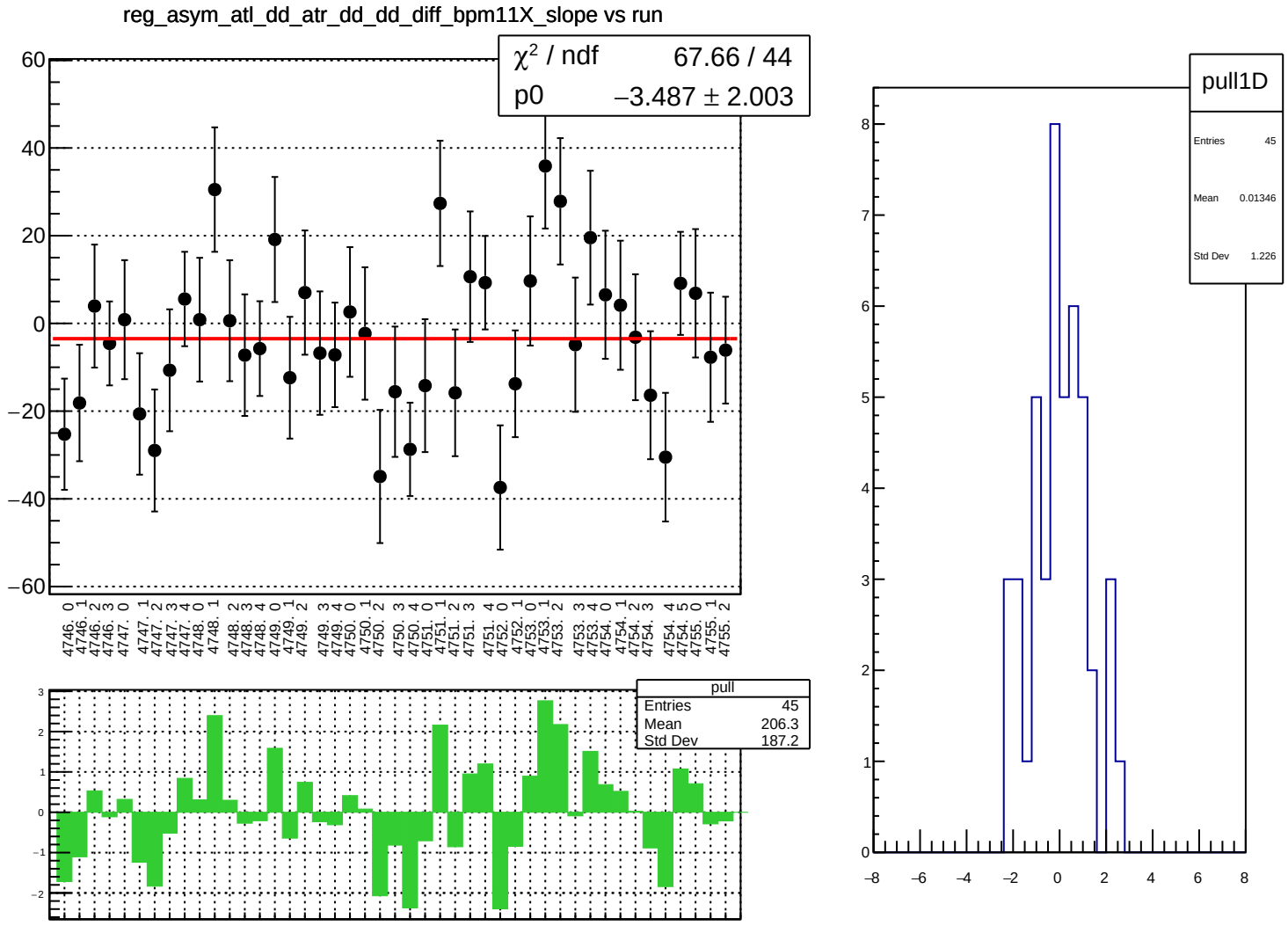

pull1D
Entries 45
Mean −0.008993
Std Dev 1.059

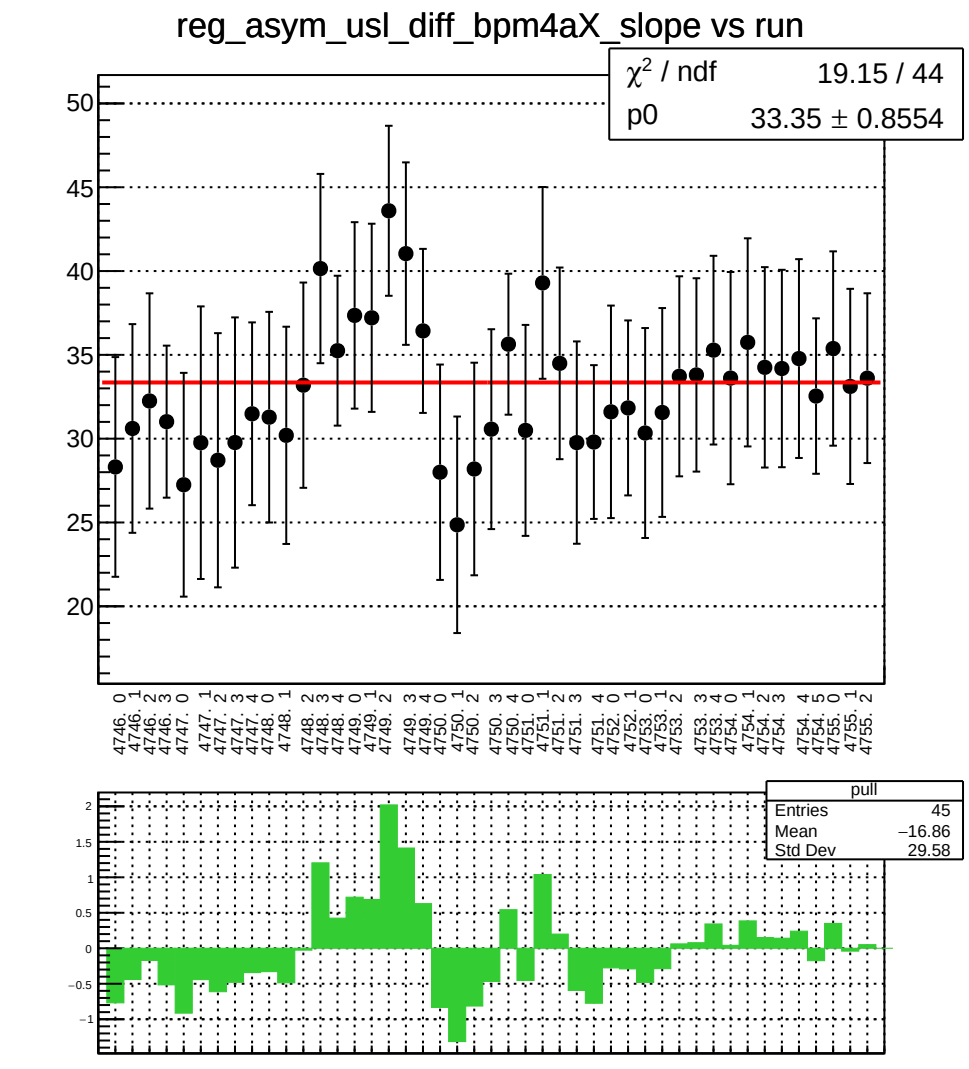

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.59 / 44
p0 23.16 ± 1.298
pull
Entries 45
Mean 125.4
Std Dev 98.66

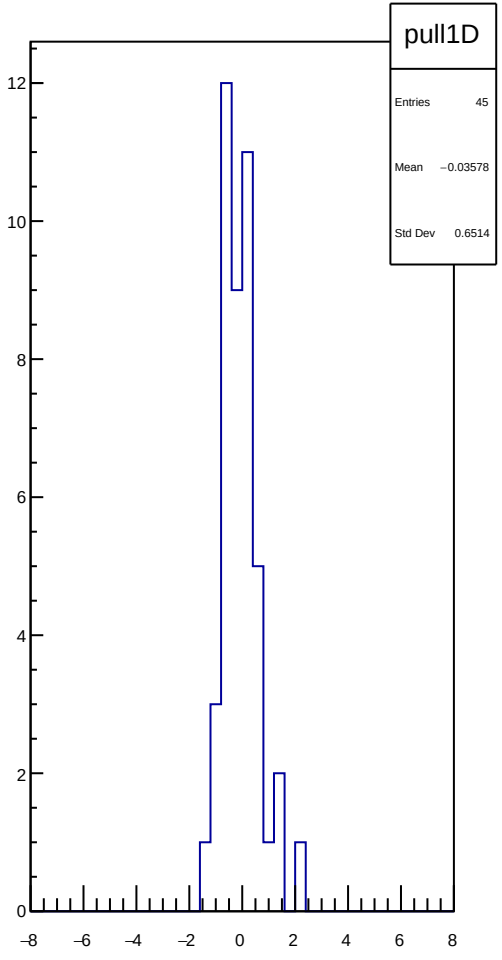

pull1D
Entries 45
Mean −0.01323
Std Dev 0.9954

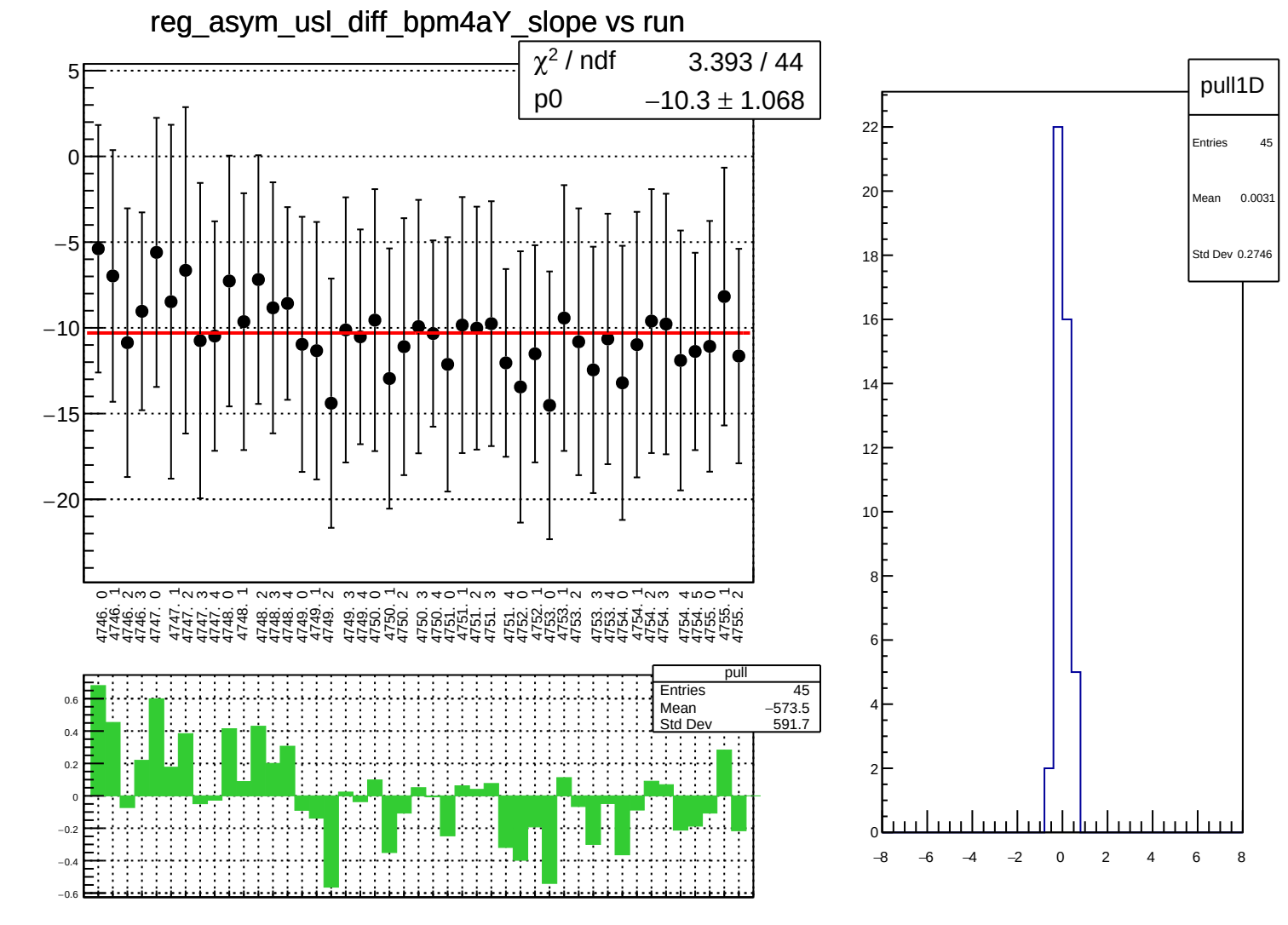

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 42.57 / 44
p0 −13.41 ± 9.381
200
100
0
−100
−200
−300
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −3242
Std Dev 3285
2
1
0
−1
−2

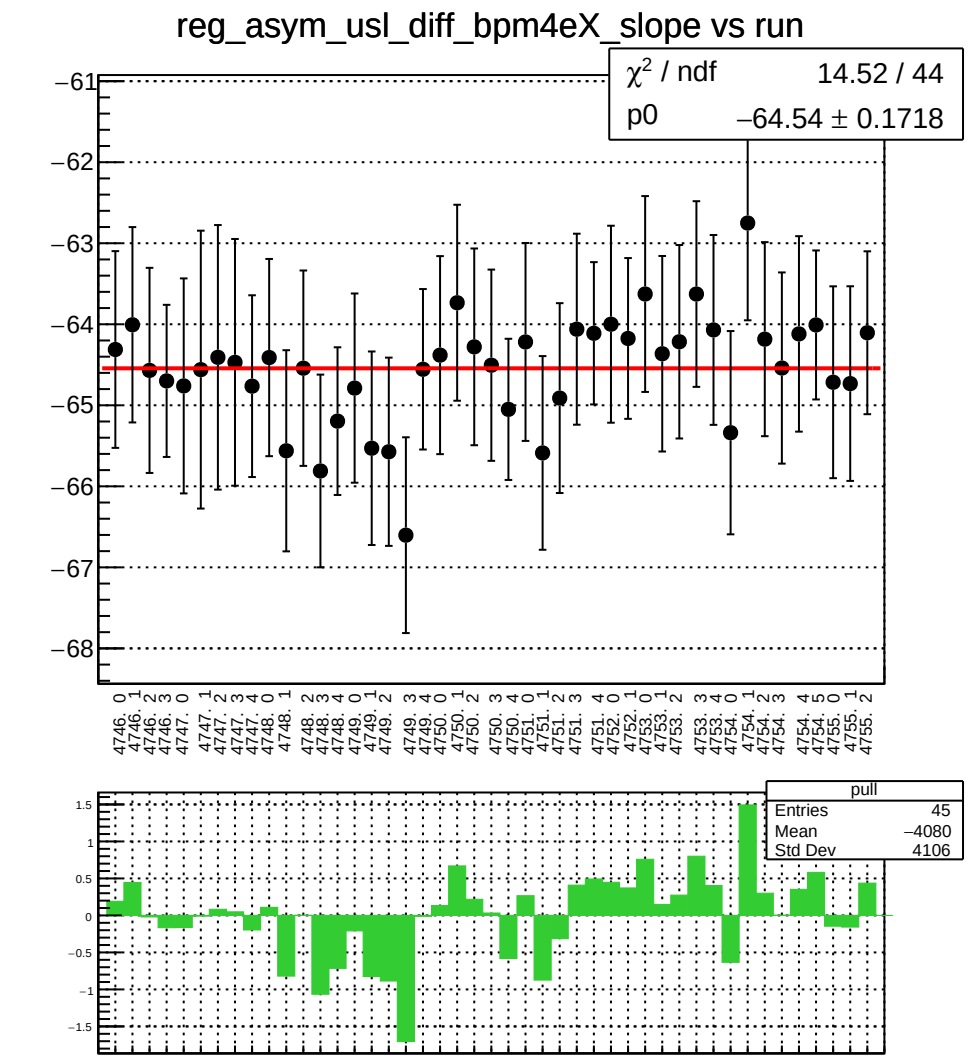

pull1D
Entries 45
Mean 0.0003499
Std Dev 0.9726
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

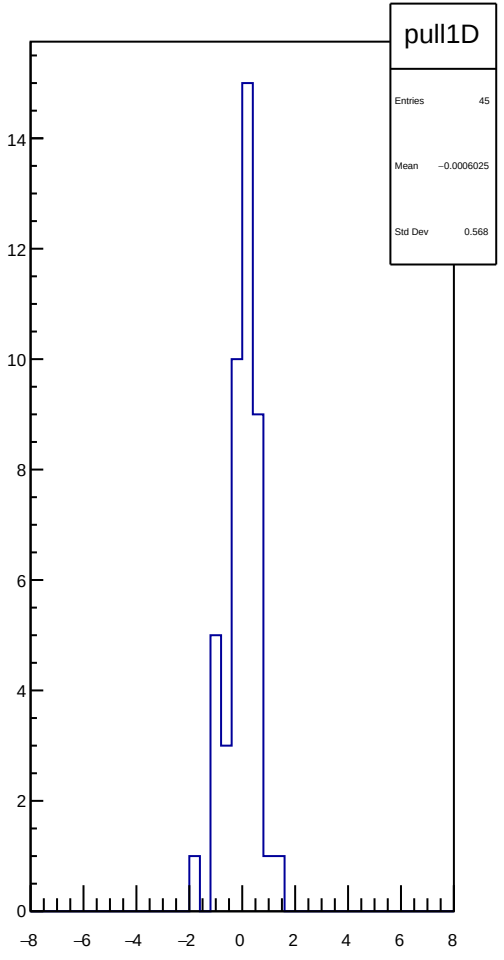

reg_asym_atl_dd_atr_dd_dd_diff_bpm11X_slope vs run
χ² / ndf 67.66 / 44
p0 −3.487 ± 2.003
pull
Entries 45
Mean 206.3
Std Dev 187.2
pull1D
Entries 45
Mean 0.01346
Std Dev 1.226

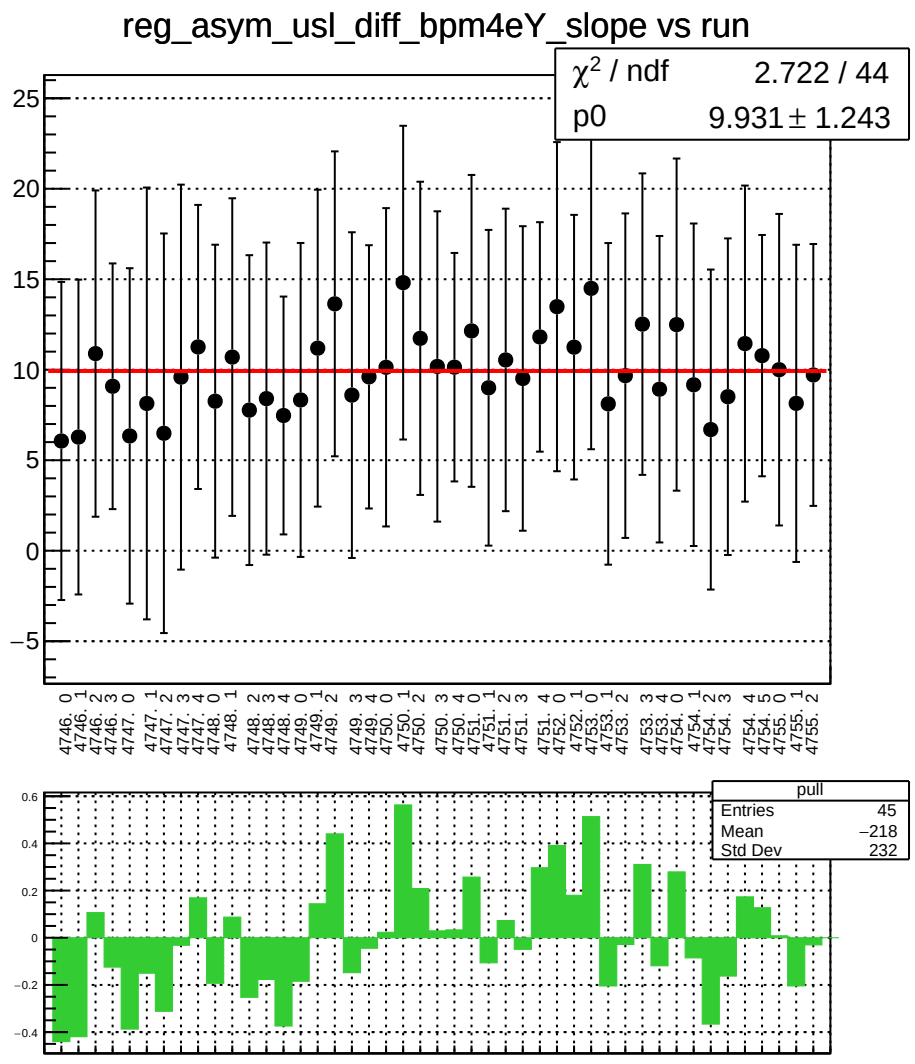

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 19.15 / 44
p0 33.35 ± 0.8554
pull
Entries 45
Mean −16.86
Std Dev 29.58

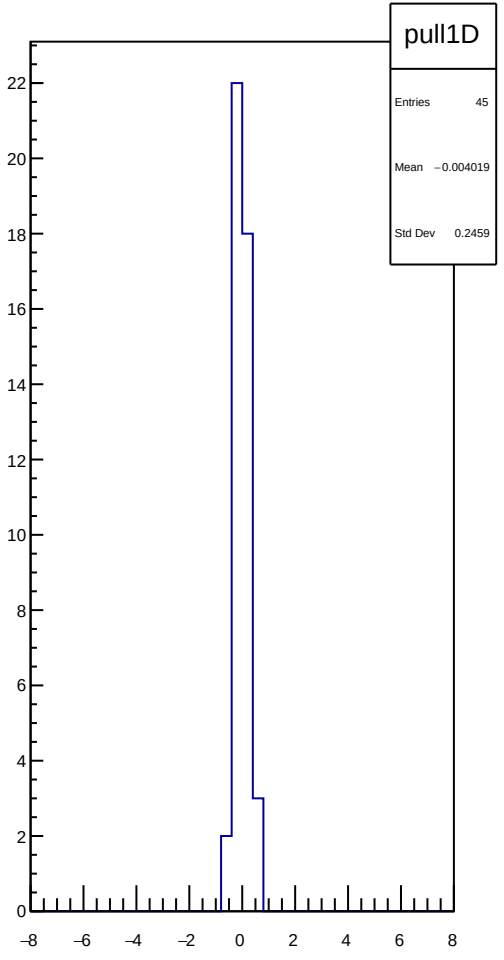

pull1D
Entries 45
Mean −0.03578
Std Dev 0.6514

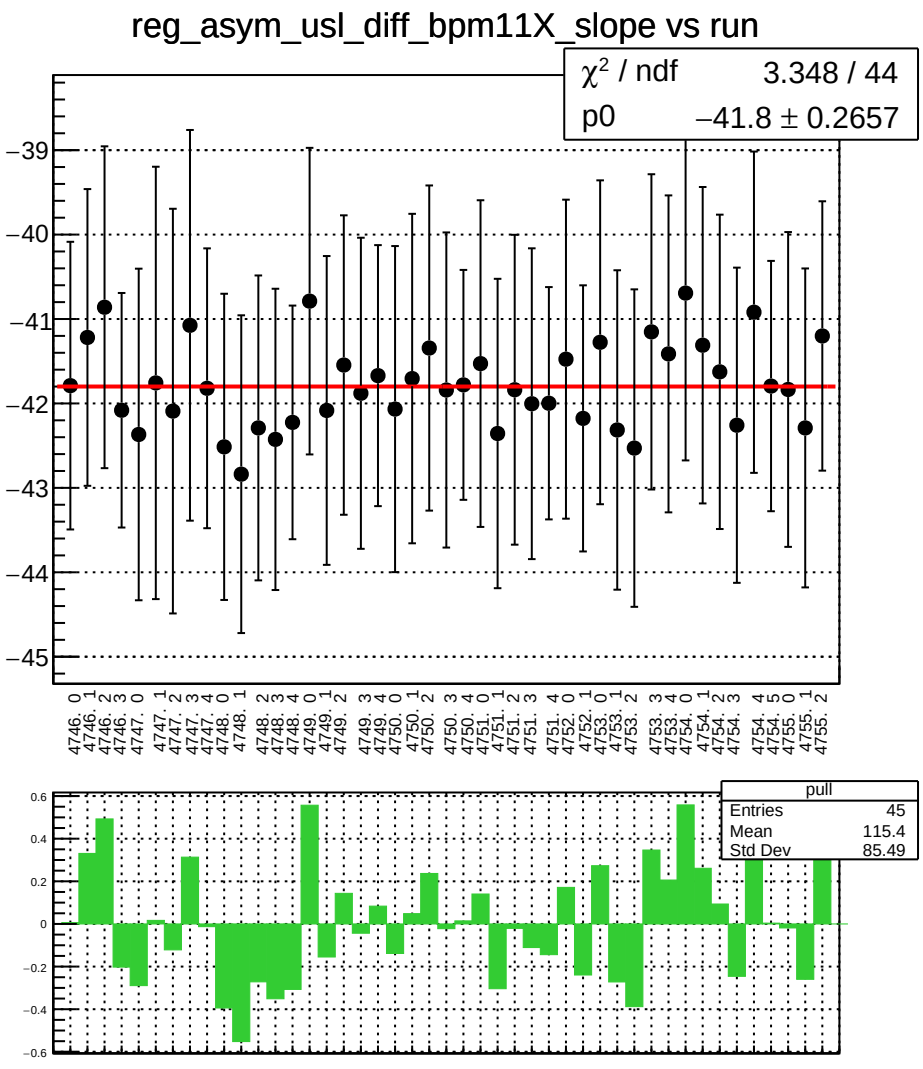

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 3.393 / 44
p0 −10.3 ± 1.068
pull
Entries 45
Mean −573.5
Std Dev 591.7
pull1D
Entries 45
Mean 0.0031
Std Dev 0.2746

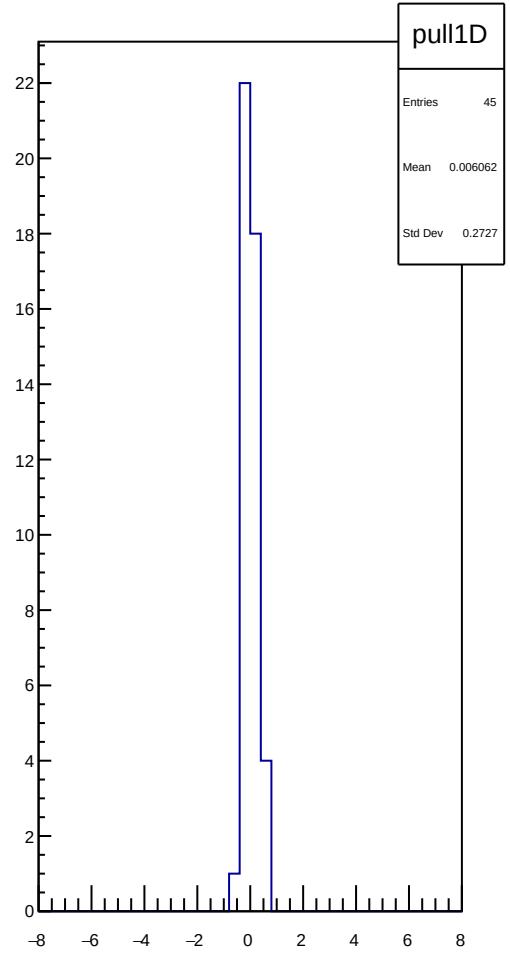

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 14.52 / 44
p0 −64.54 ± 0.1718
pull
Entries 45
Mean −4080
Std Dev 4106

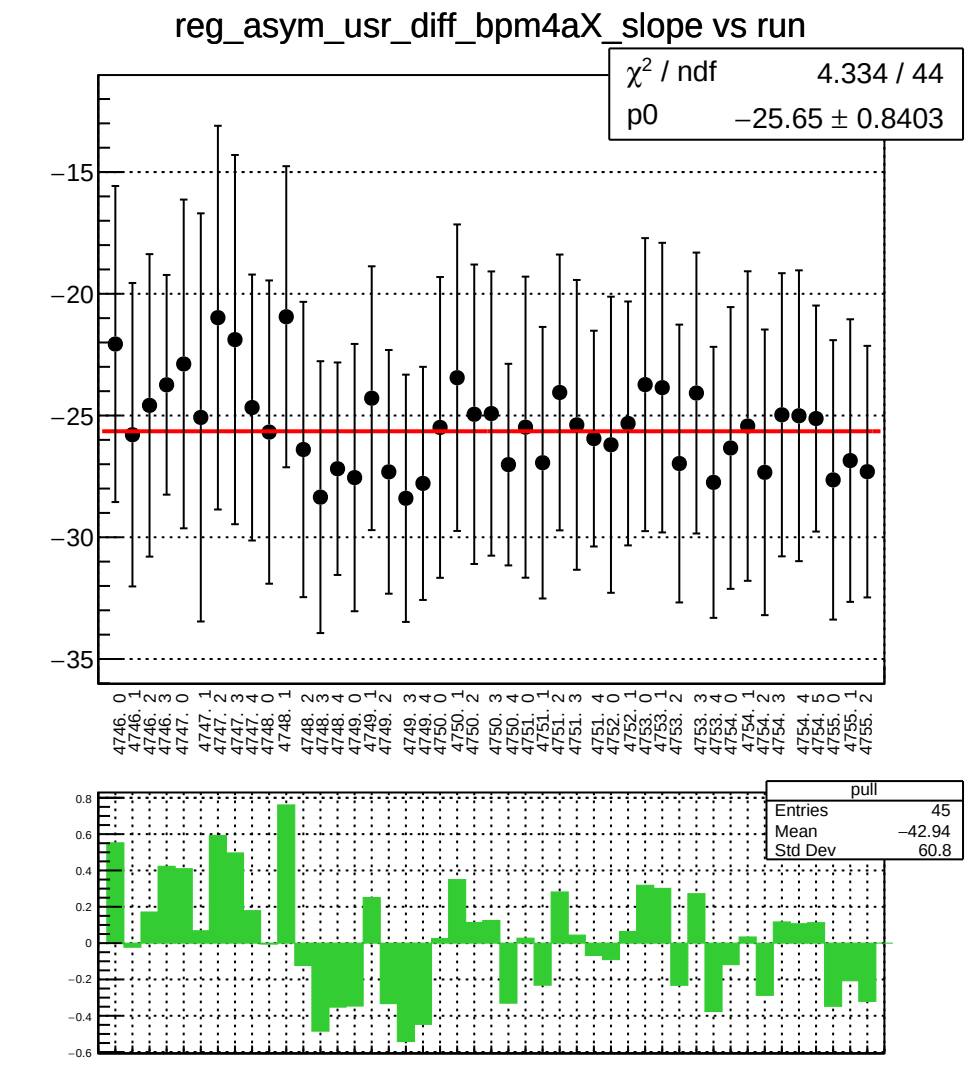

pull1D
Entries 45
Mean −0.0006025
Std Dev 0.568

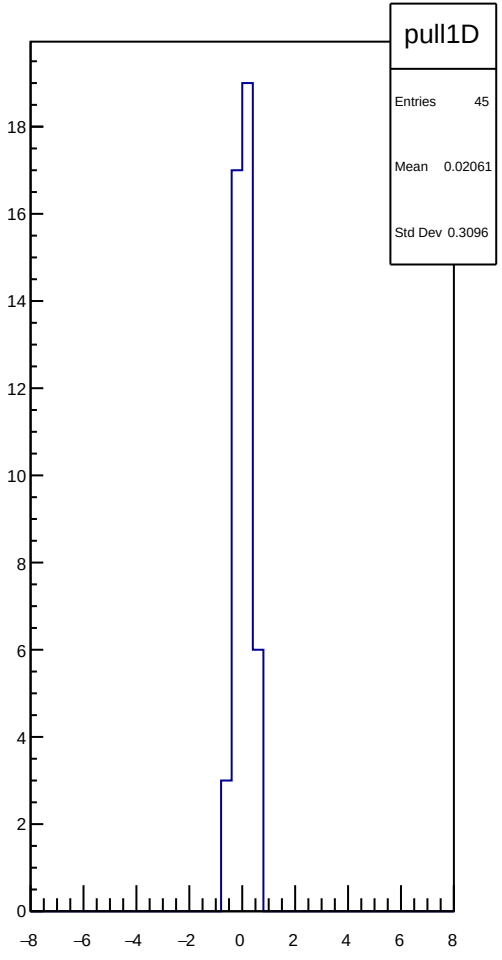

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 2.722 / 44
p0 9.931 ± 1.243
pull
Entries 45
Mean −218
Std Dev 232

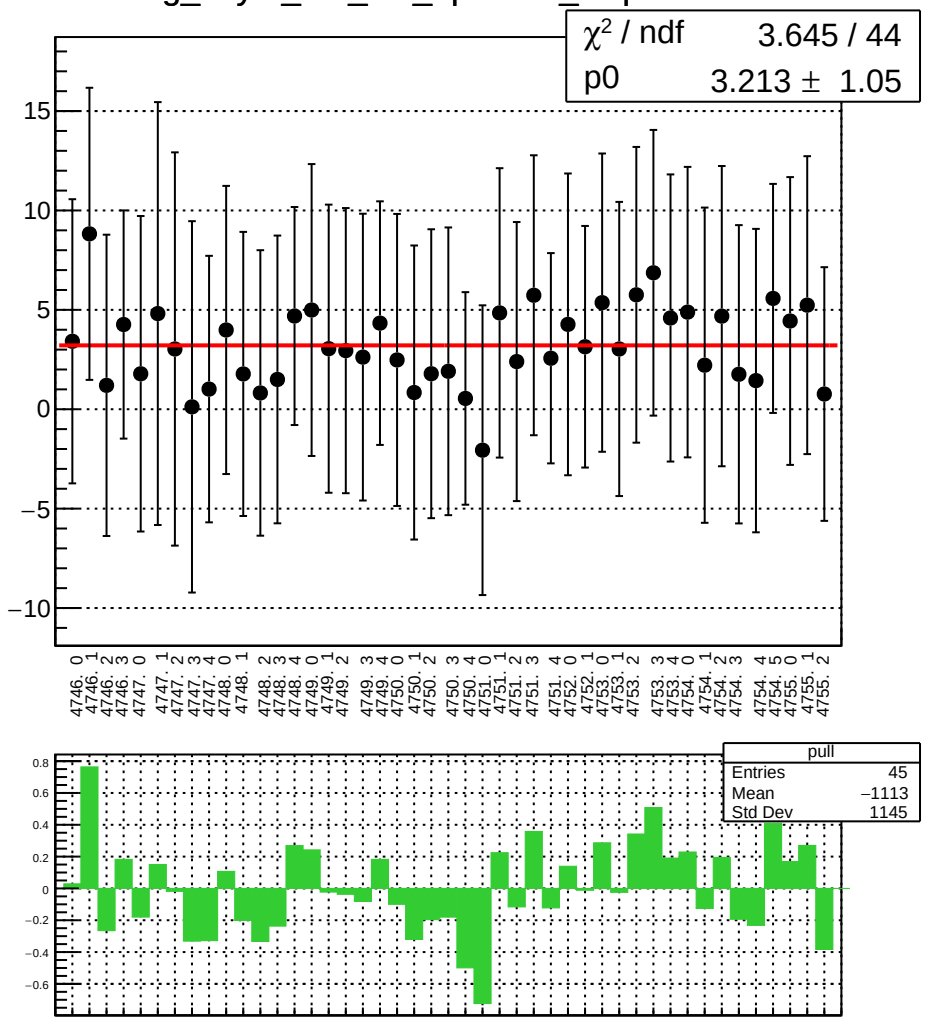

pull1D
Entries 45
Mean −0.004019
Std Dev 0.2459

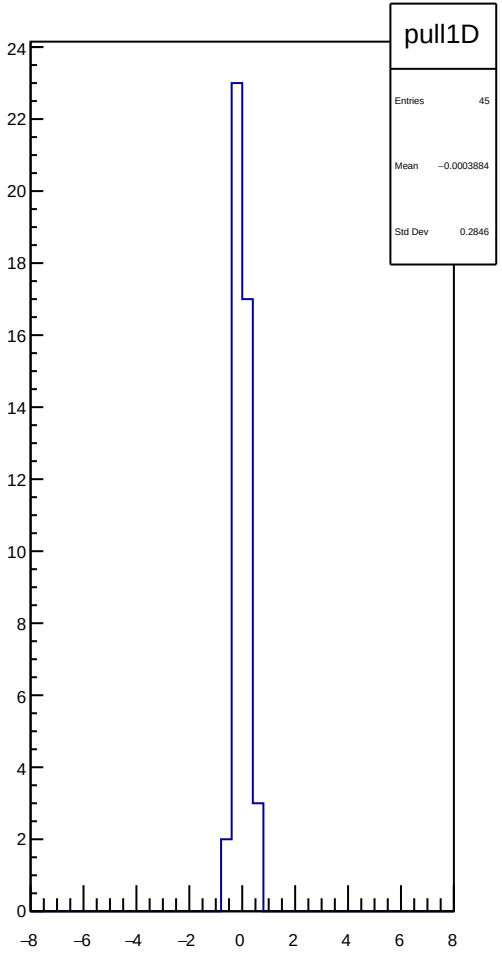

reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 3.348 / 44
p0 −41.8 ± 0.2657
pull
Entries 45
Mean 115.4
Std Dev 85.49

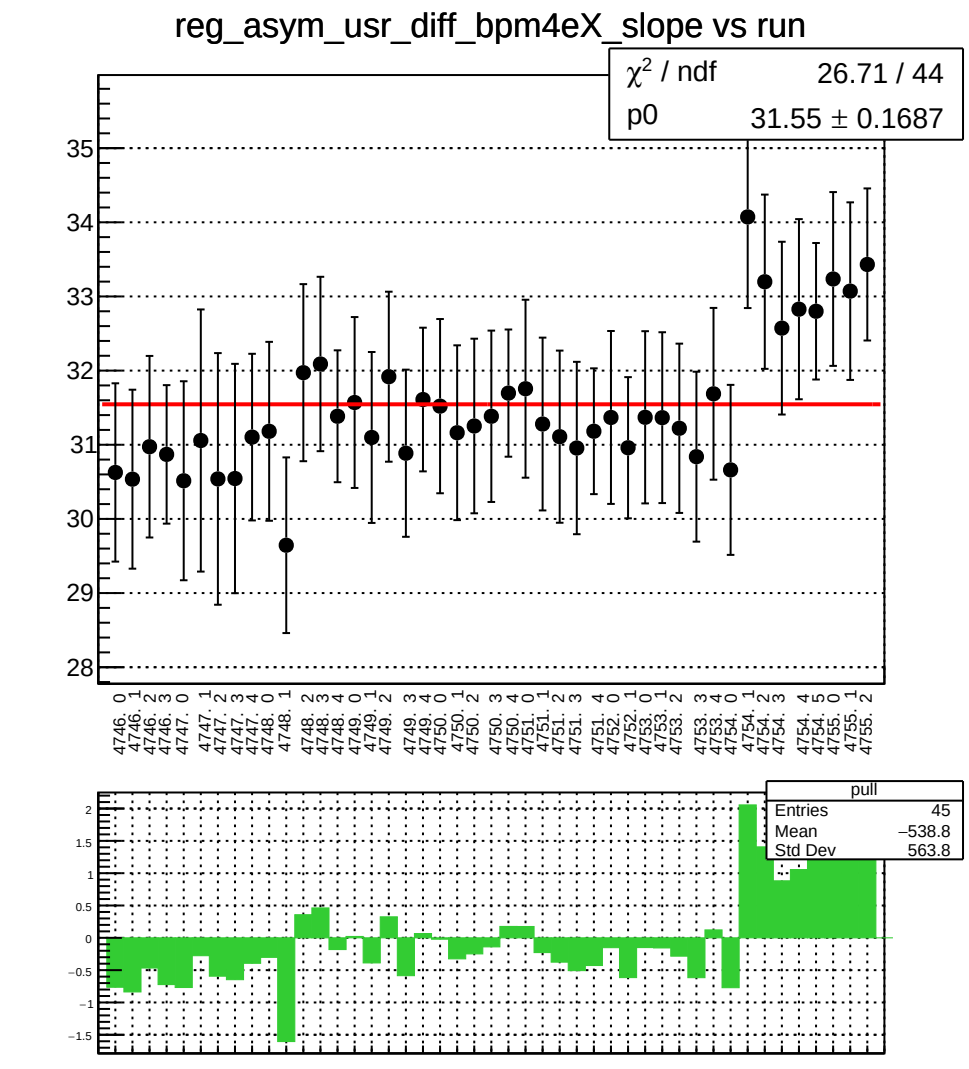

pull1D
Entries 45
Mean 0.006062
Std Dev 0.2727

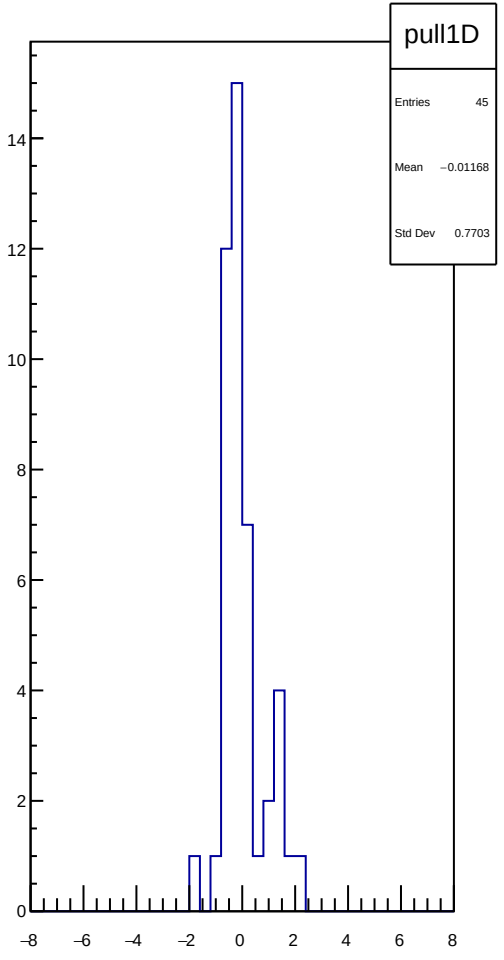

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 4.334 / 44
p0 −25.65 ± 0.8403
−15
−20
−25
−30
−35
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −42.94
Std Dev 60.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

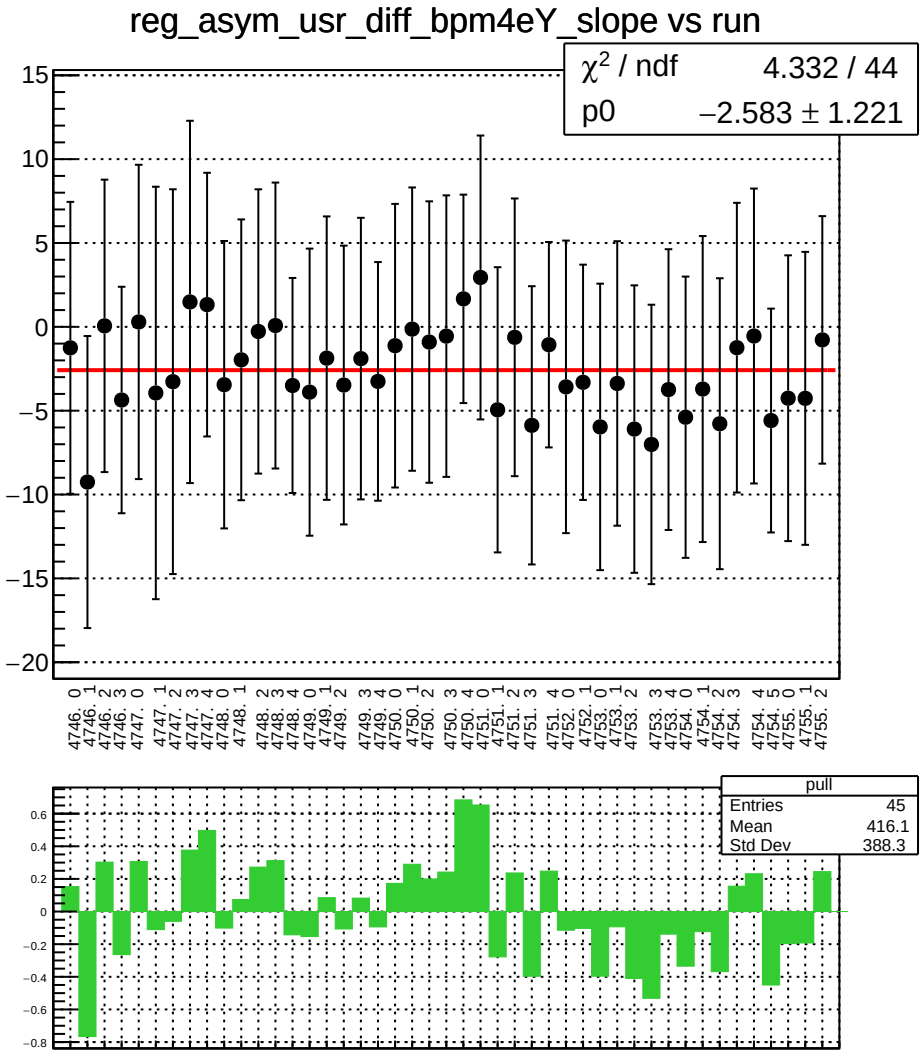

pull1D
Entries 45
Mean 0.02061
Std Dev 0.3096
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

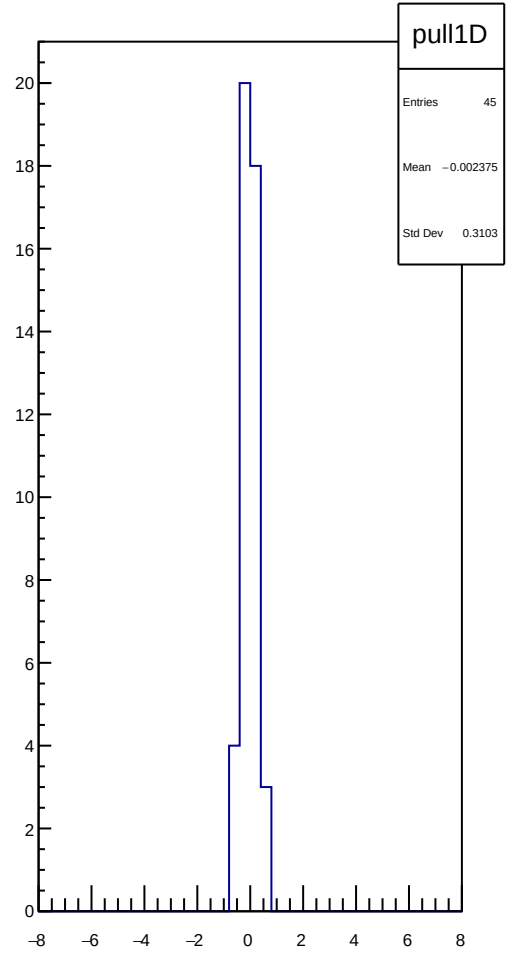

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 3.645 / 44
p0 3.213 ± 1.05
pull
Entries 45
Mean −1113
Std Dev 1145

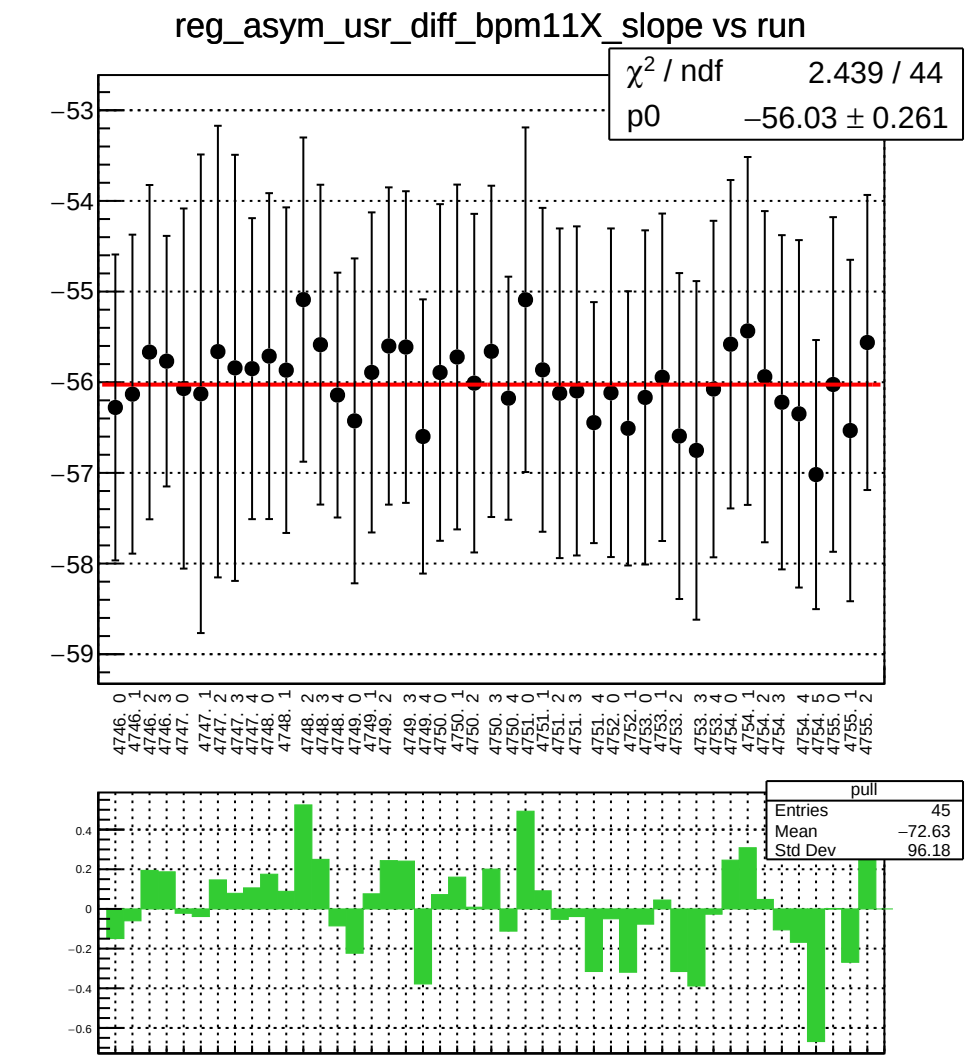

pull1D
Entries 45
Mean −0.0003884
Std Dev 0.2846

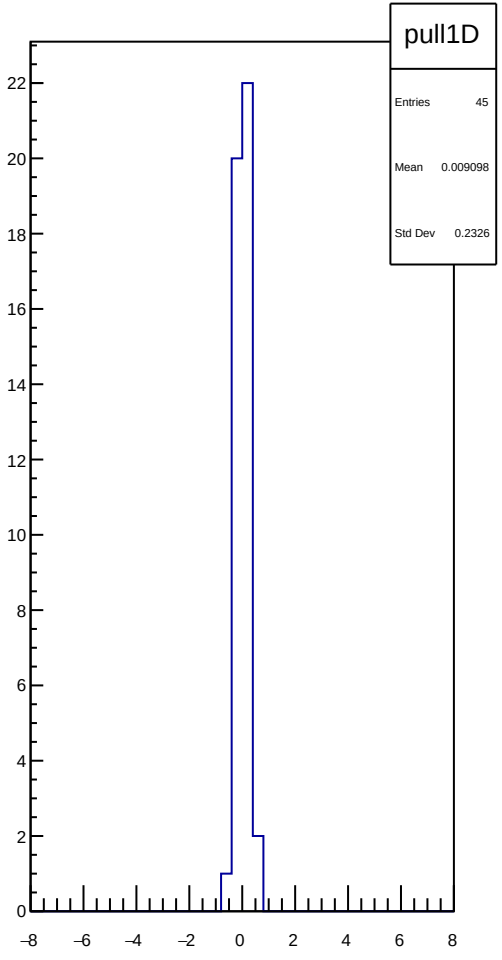

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 26.71 / 44
p0 31.55 ± 0.1687
pull
Entries 45
Mean −538.8
Std Dev 563.8

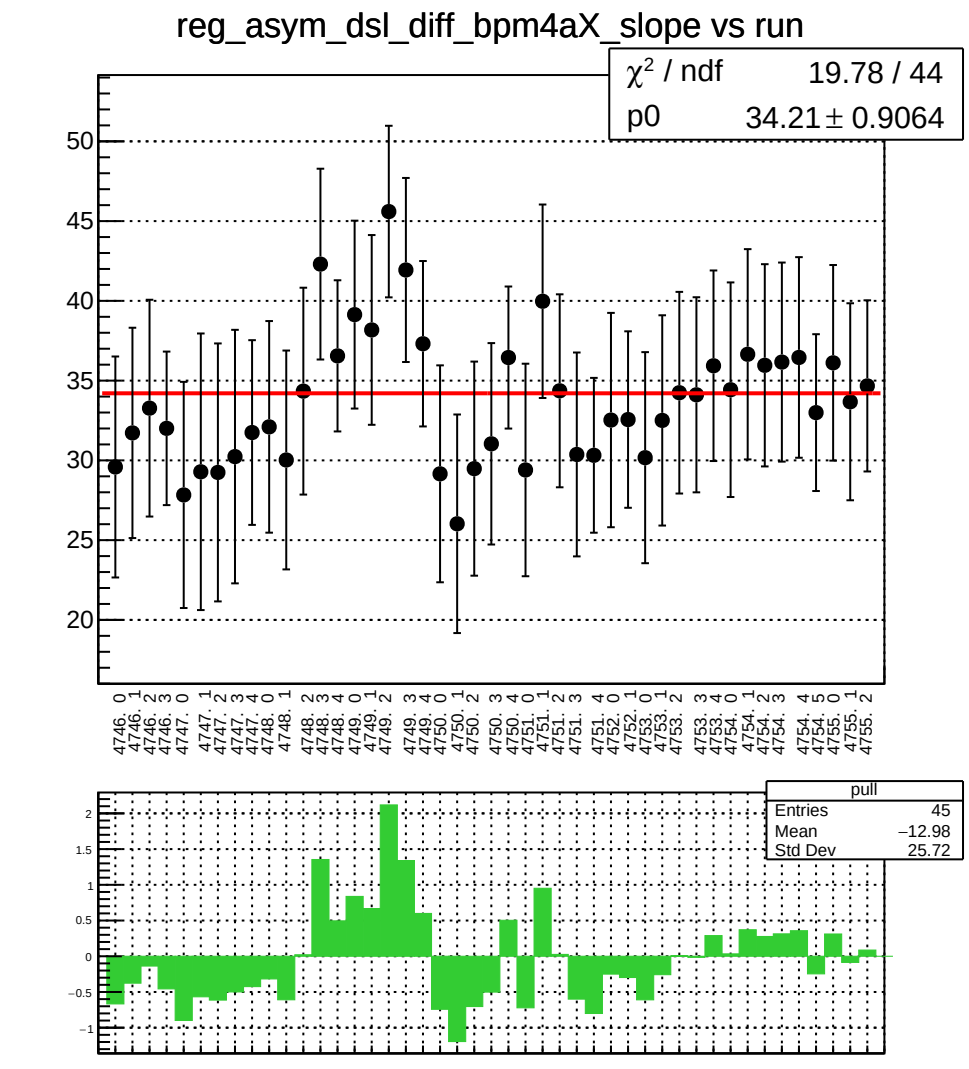

pull1D
Entries 45
Mean −0.01168
Std Dev 0.7703

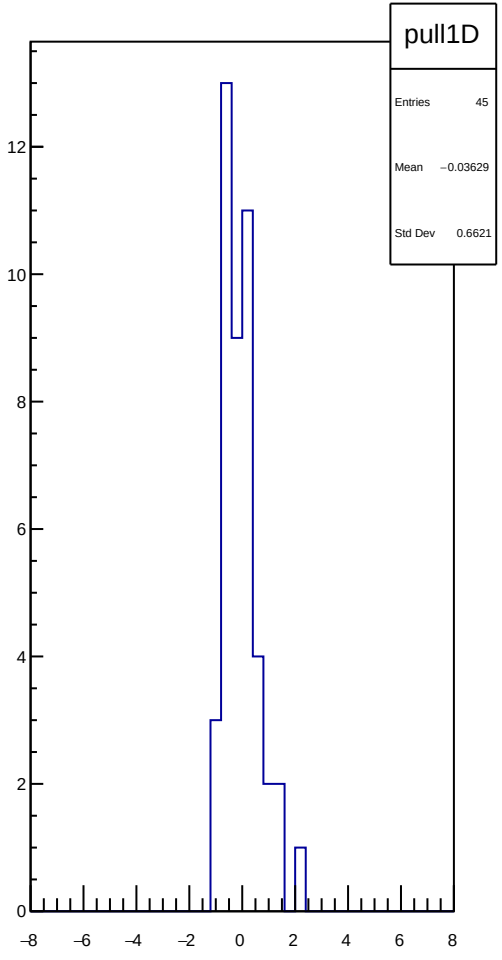

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 4.332 / 44
p0 −2.583 ± 1.221
pull
Entries 45
Mean 416.1
Std Dev 388.3

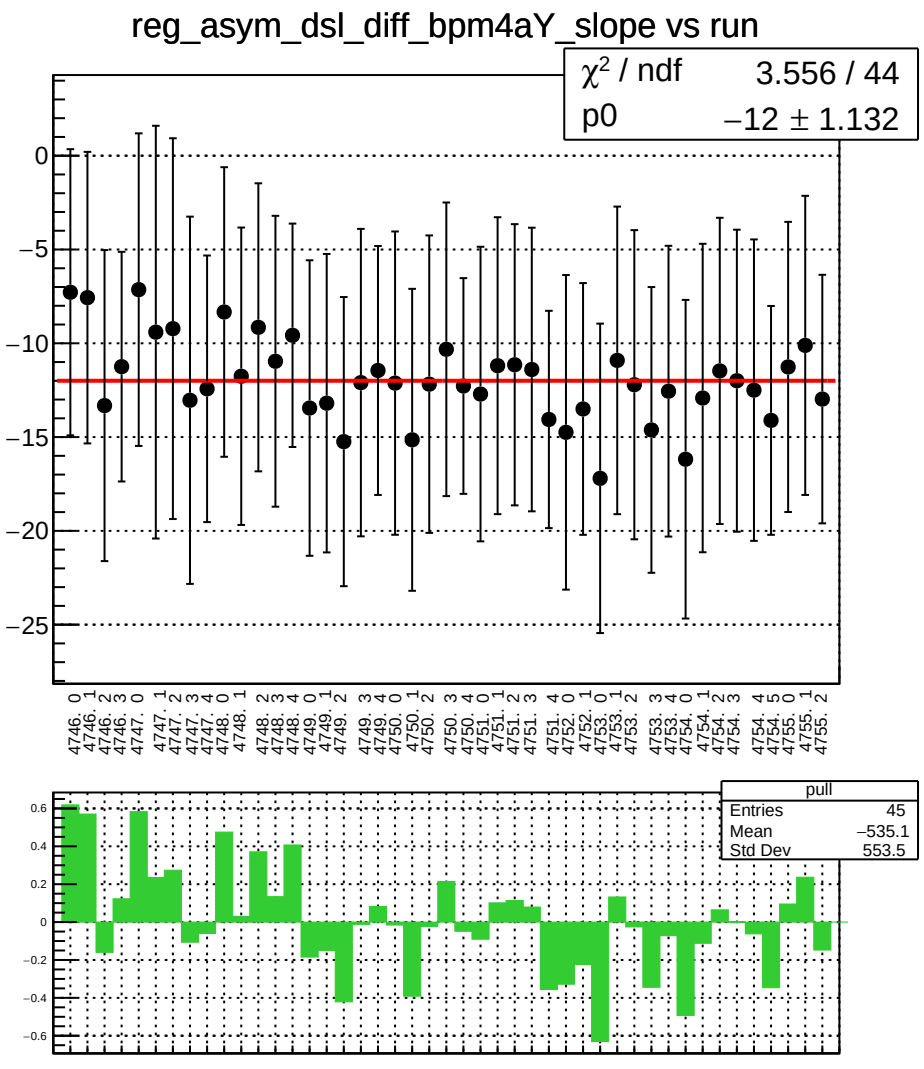

pull1D
Entries 45
Mean −0.002375
Std Dev 0.3103

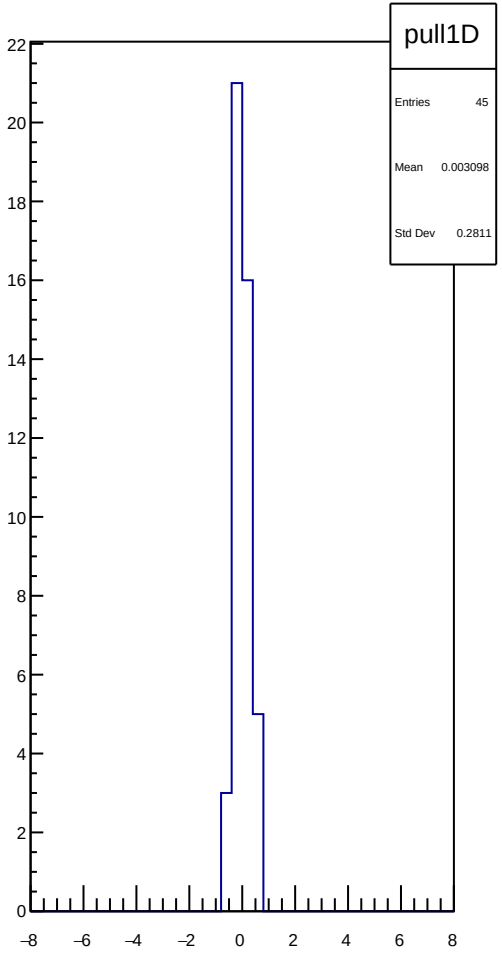

reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 2.439 / 44
p0 −56.03 ± 0.261
pull
Entries 45
Mean −72.63
Std Dev 96.18

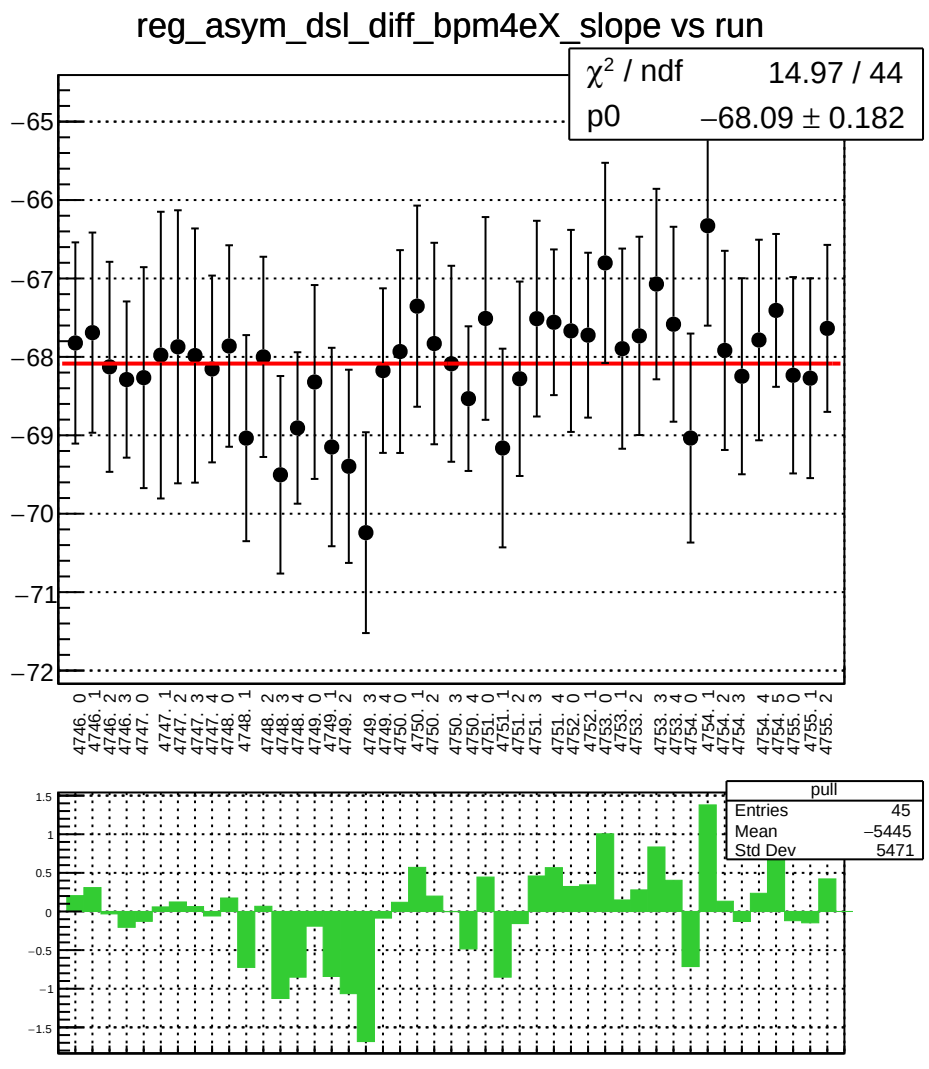

pull1D
Entries 45
Mean 0.009098
Std Dev 0.2326

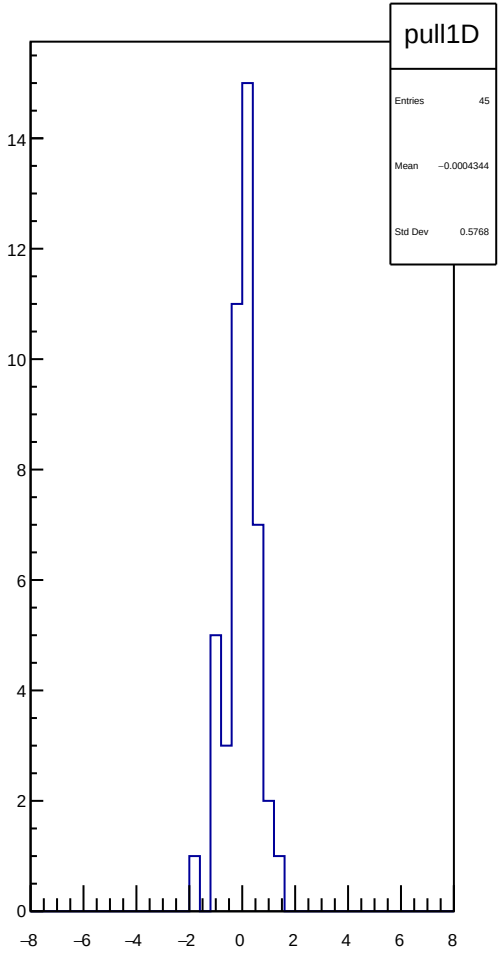

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 19.78 / 44
p0 34.21 ± 0.9064
pull
Entries 45
Mean −12.98
Std Dev 25.72

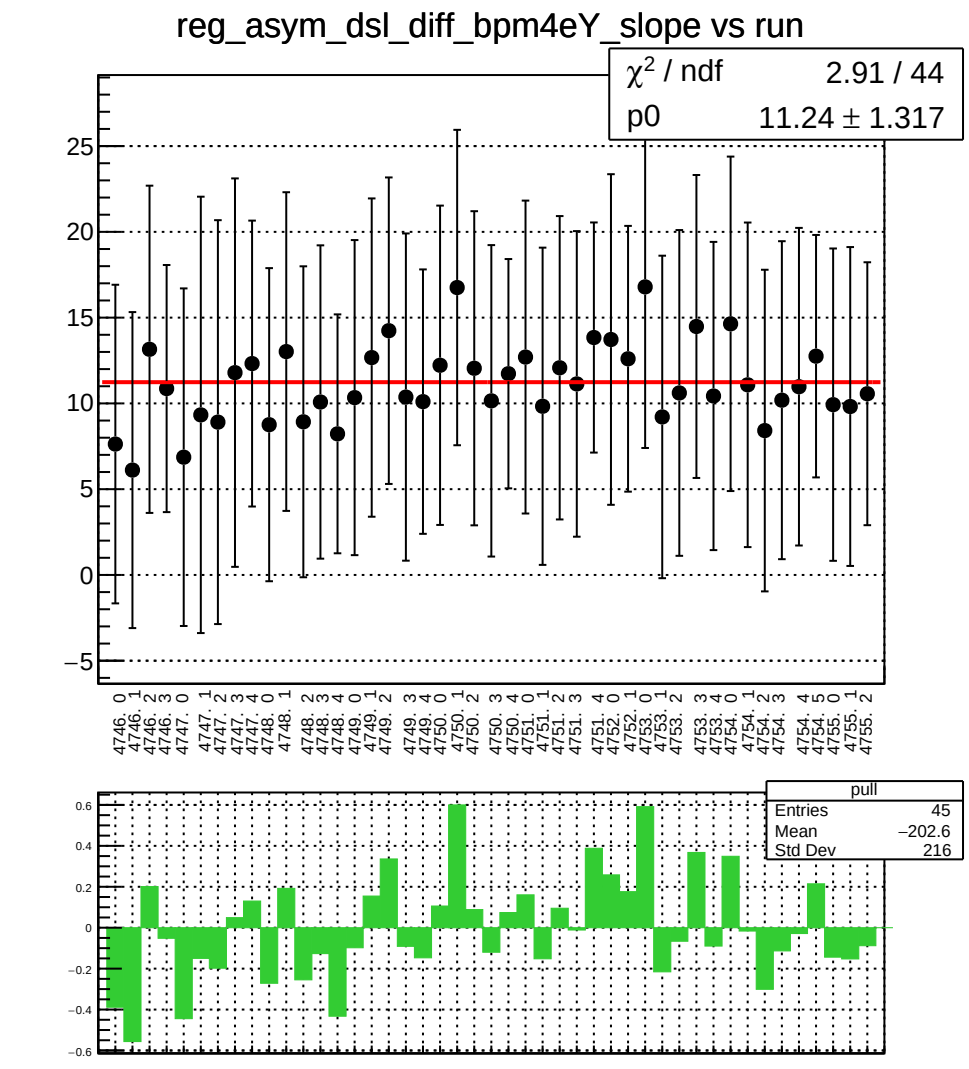

pull1D
Entries 45
Mean −0.03629
Std Dev 0.6621

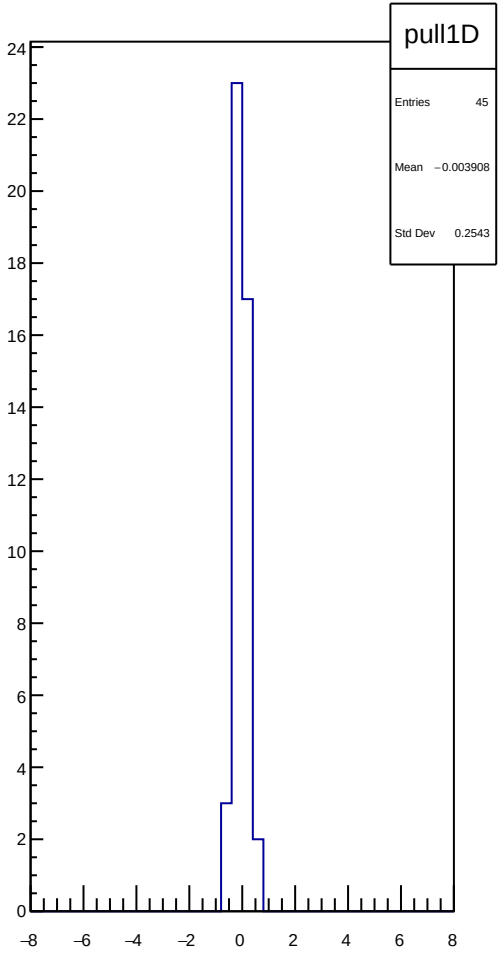

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 3.556 / 44
p0 −12 ± 1.132
pull
Entries 45
Mean −535.1
Std Dev 553.5

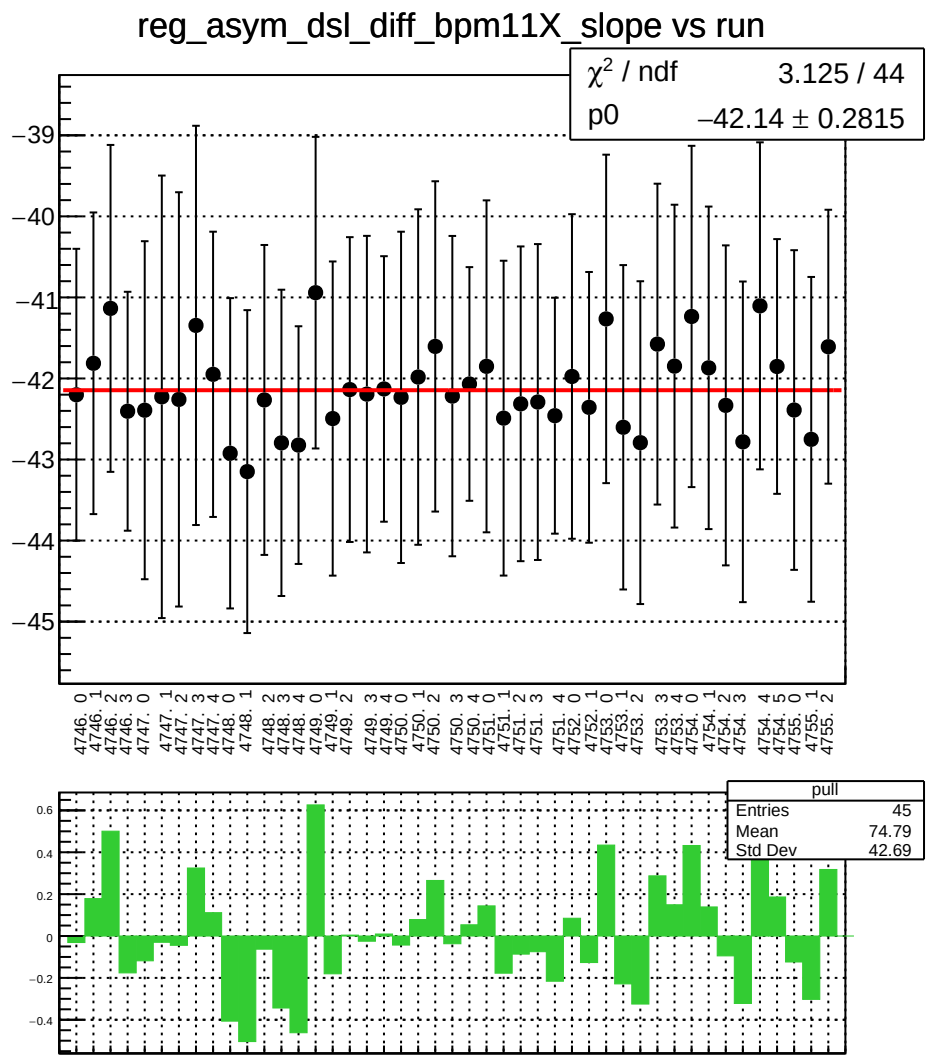

pull1D
Entries 45
Mean 0.003098
Std Dev 0.2811

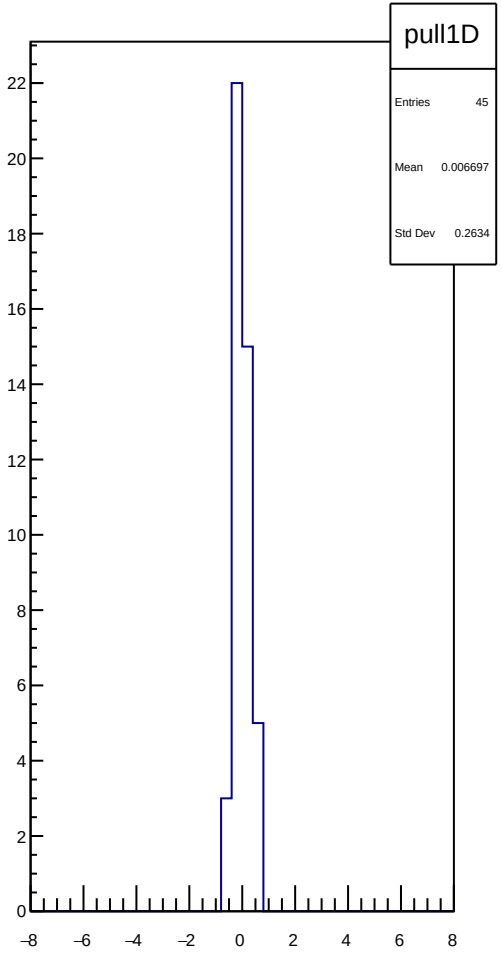

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 14.97 / 44
p0 −68.09 ± 0.182
pull
Entries 45
Mean −5445
Std Dev 5471

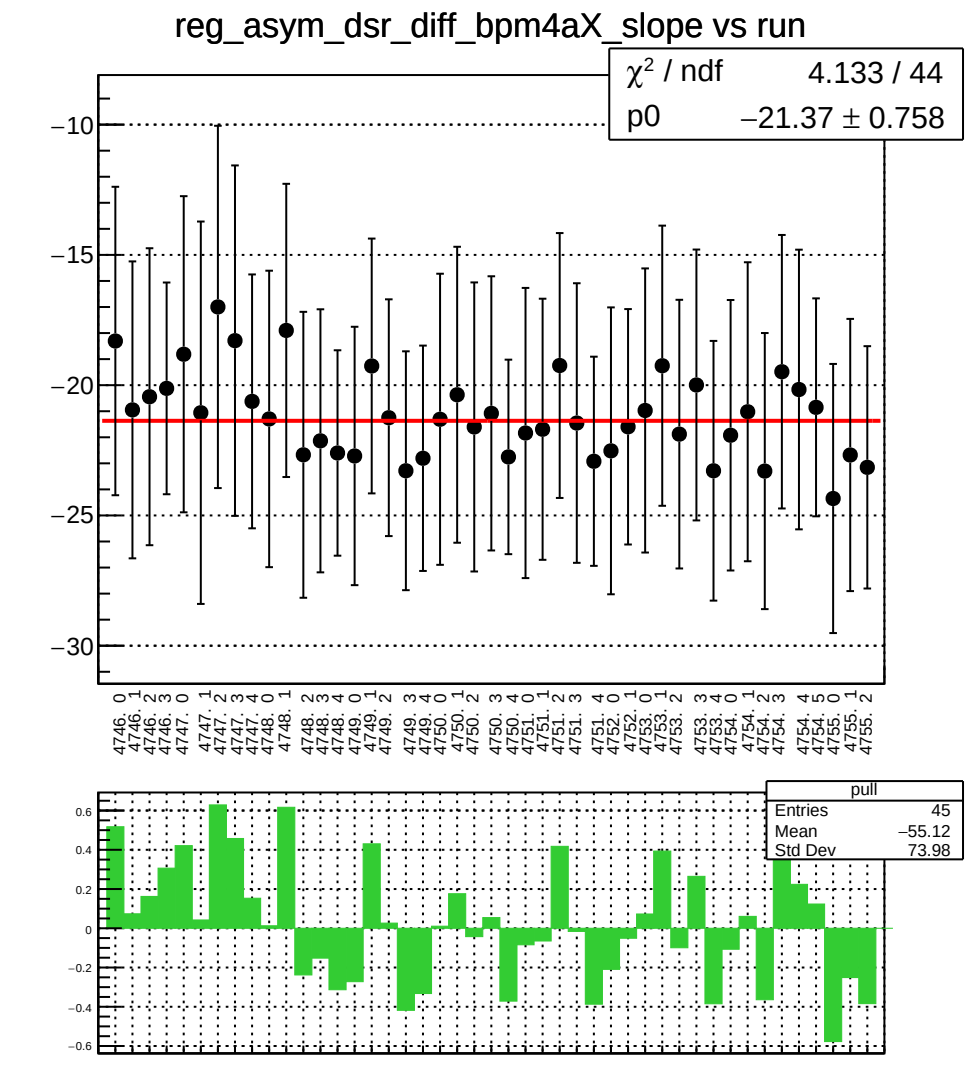

pull1D
Entries 45
Mean −0.0004344
Std Dev 0.5768

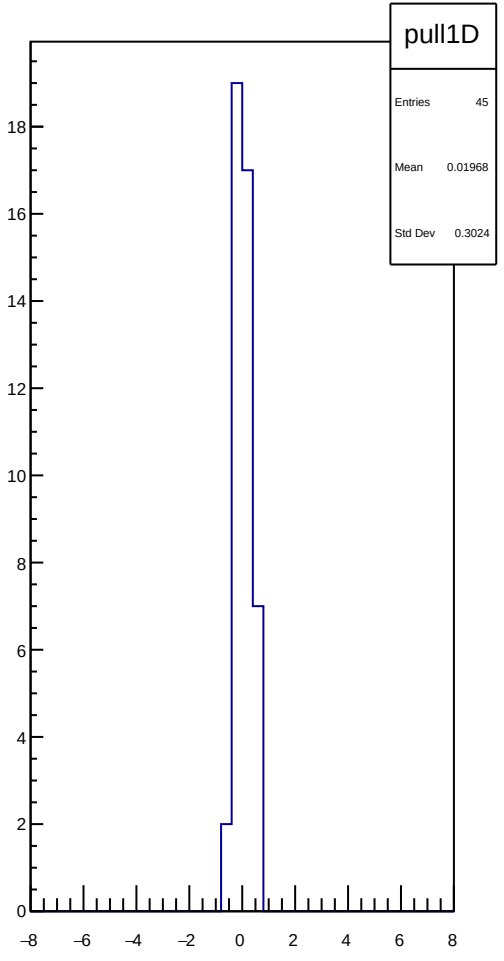

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 2.91 / 44
p0 11.24 ± 1.317
pull
Entries 45
Mean −202.6
Std Dev 216

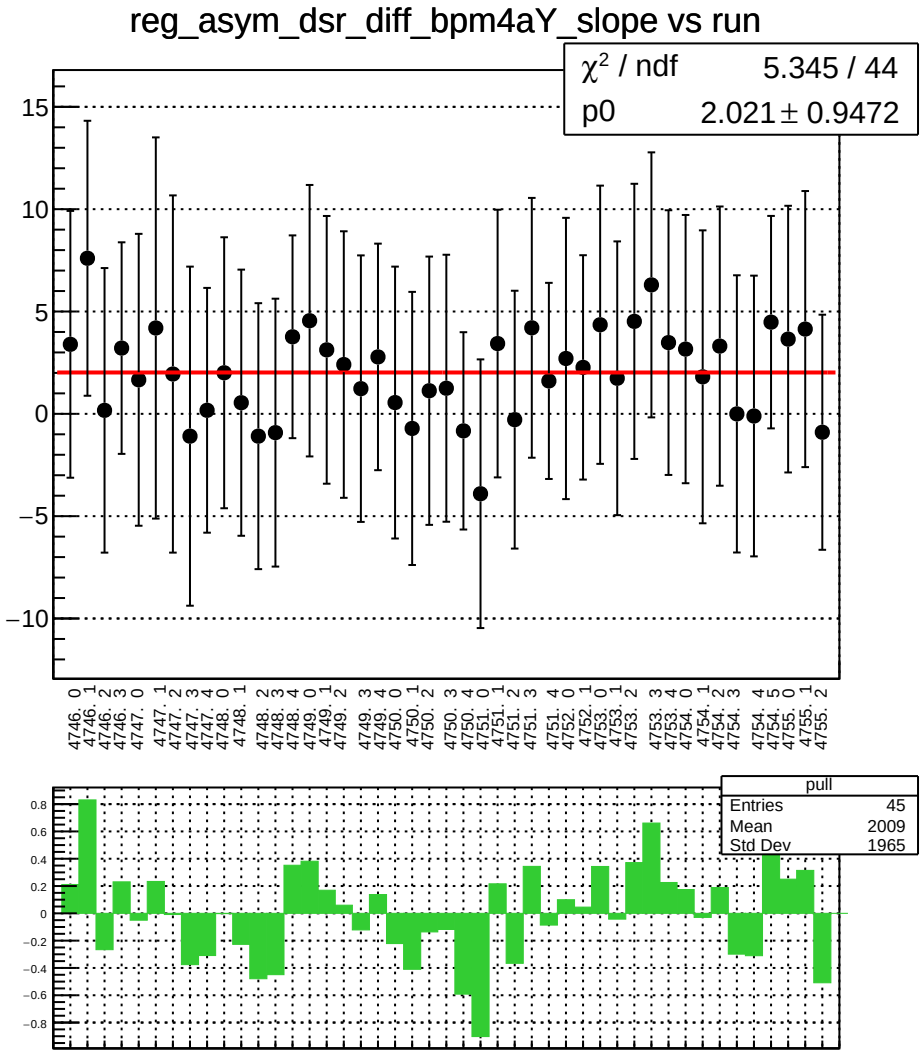

pull1D
Entries 45
Mean −0.003908
Std Dev 0.2543

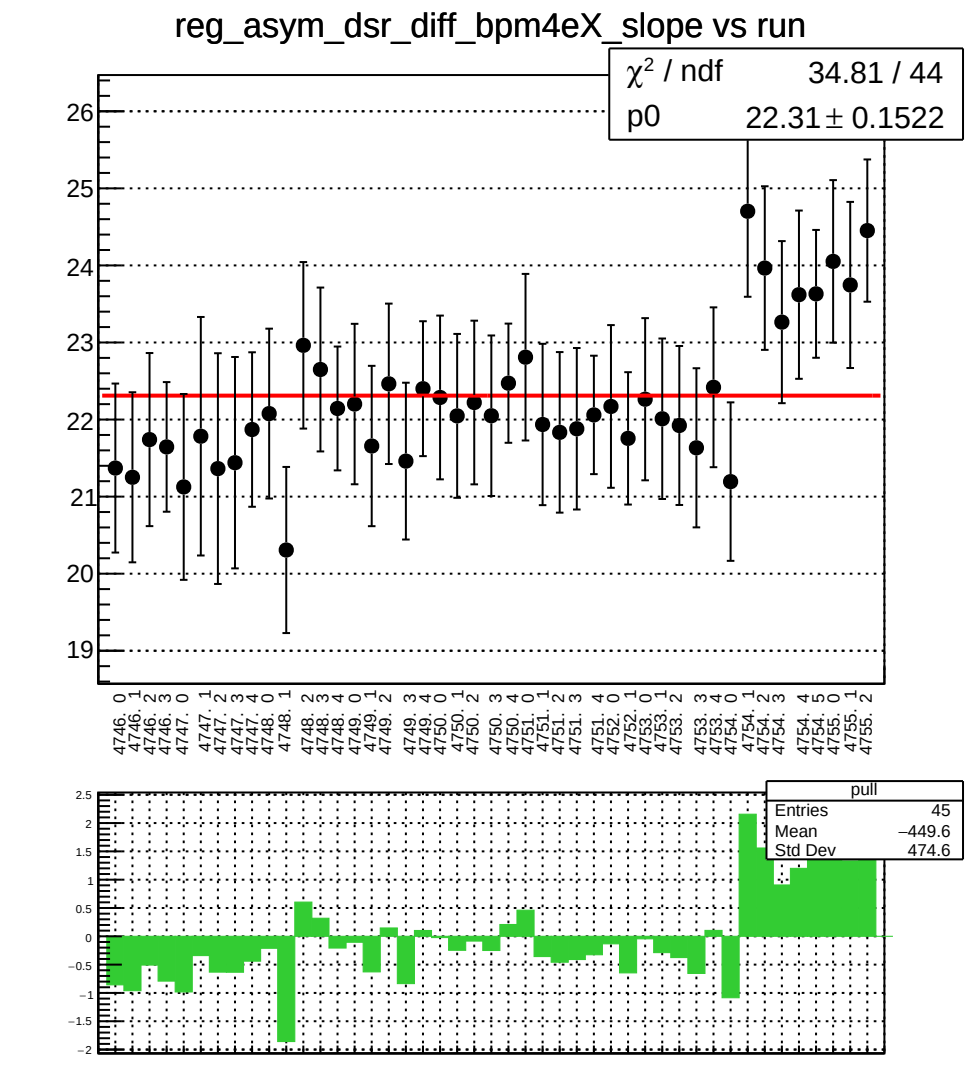

reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 3.125 / 44
p0 −42.14 ± 0.2815
pull
Entries 45
Mean 74.79
Std Dev 42.69

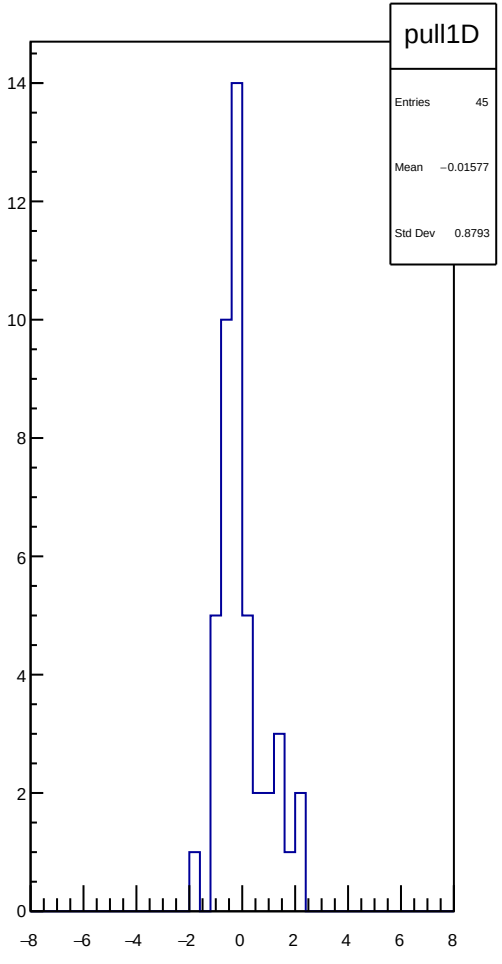

pull1D
Entries 45
Mean 0.006697
Std Dev 0.2634

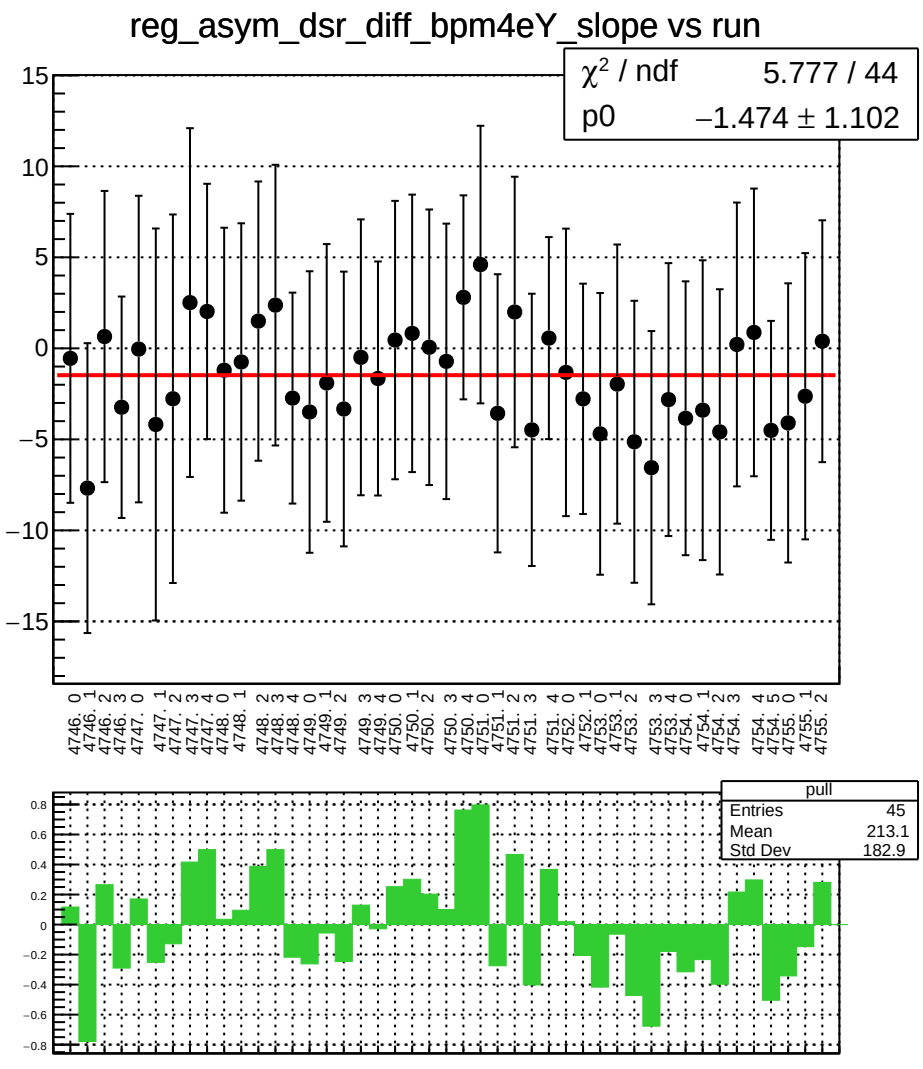

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 4.133 / 44
p0 −21.37 ± 0.758
pull
Entries 45
Mean −55.12
Std Dev 73.98

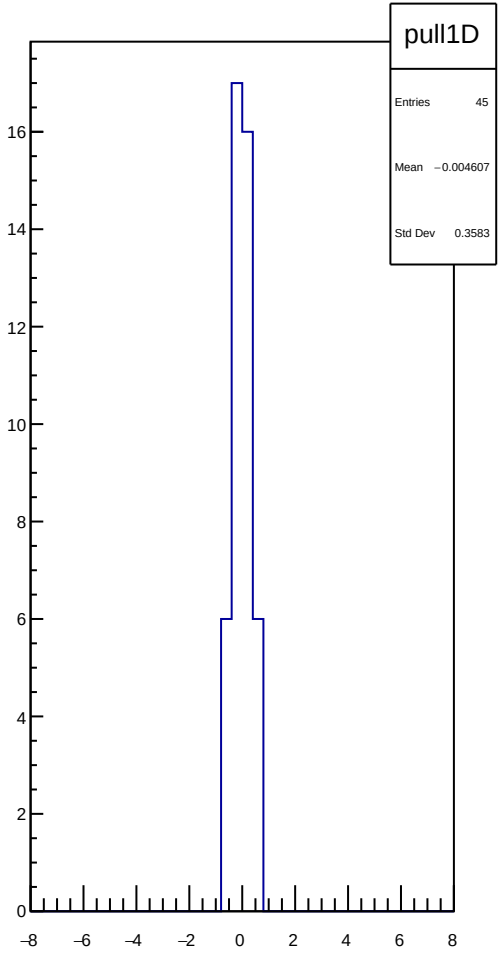

pull1D
Entries 45
Mean 0.01968
Std Dev 0.3024

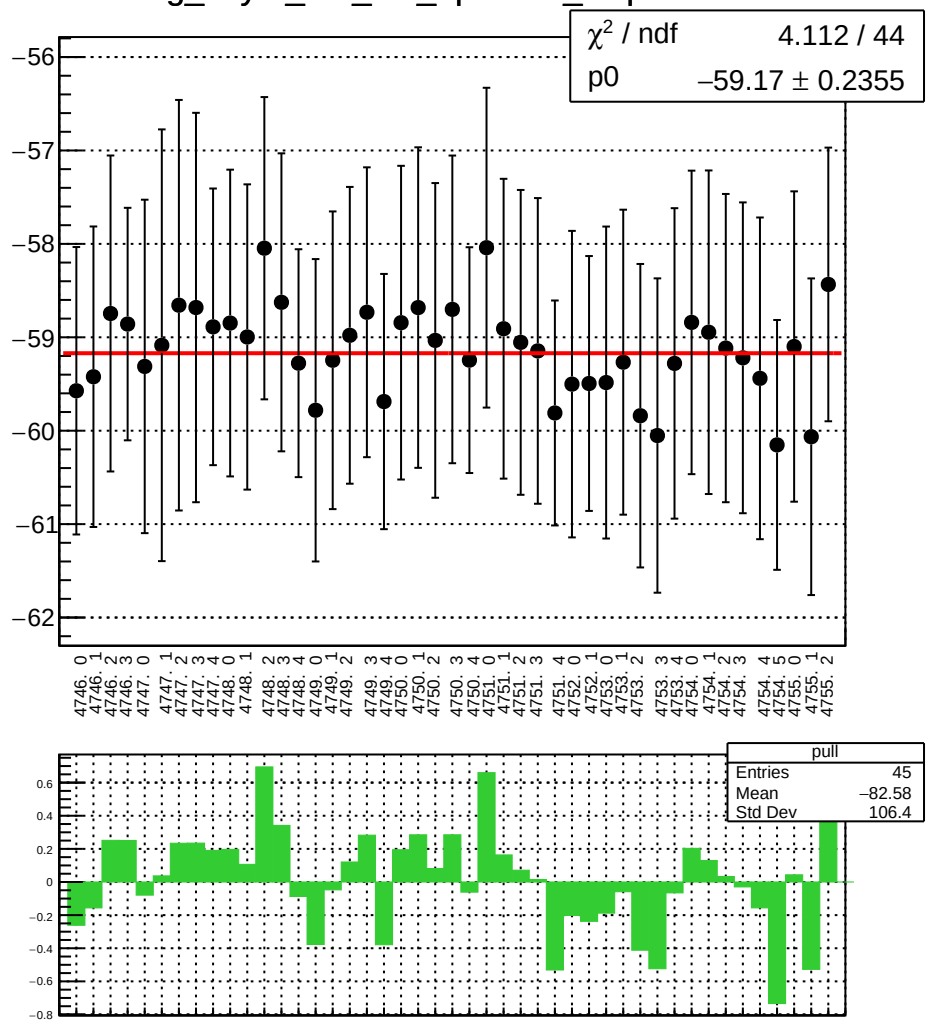

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 5.345 / 44
p0 2.021 ± 0.9472
15
10
5
0
−5
−10
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 2009
Std Dev 1965
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean 0.0001428
Std Dev 0.3446
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

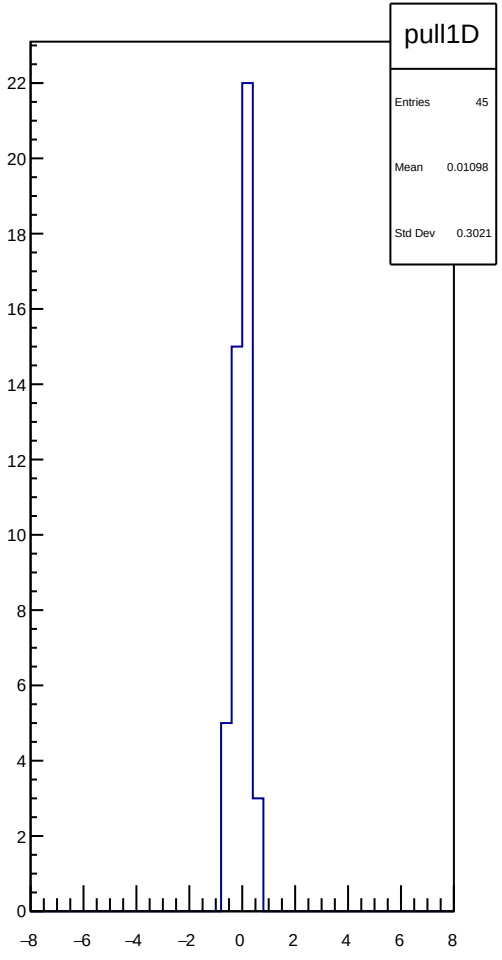

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 34.81 / 44
p0 22.31 ± 0.1522
pull
Entries 45
Mean −449.6
Std Dev 474.6

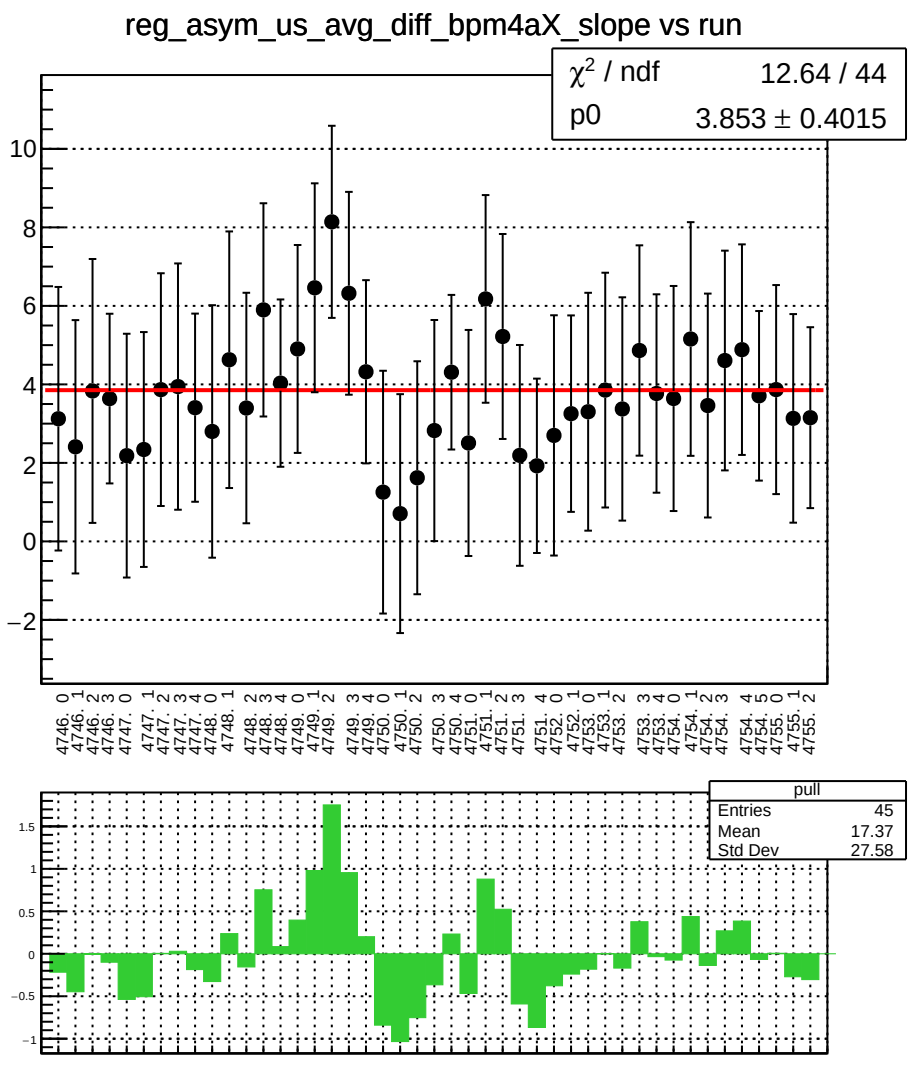

pull1D
Entries 45
Mean −0.01577
Std Dev 0.8793

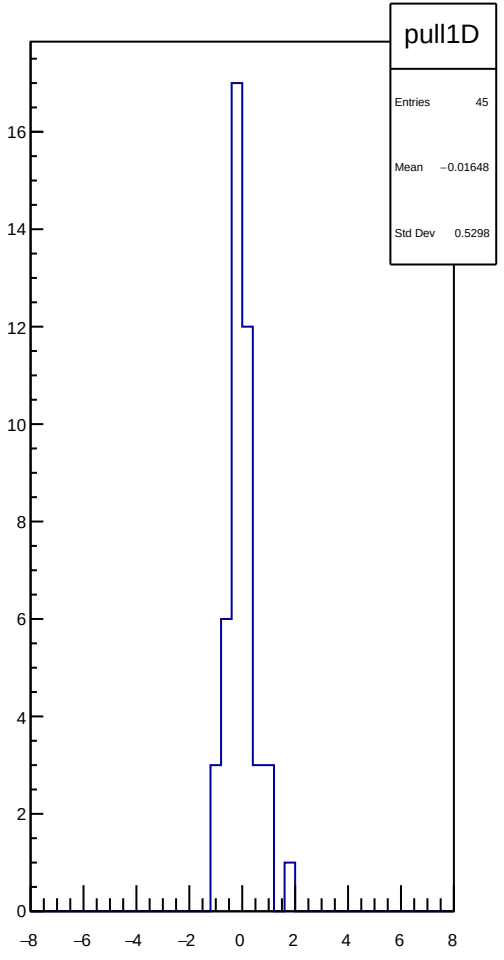

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 5.777 / 44
p0 −1.474 ± 1.102
pull
Entries 45
Mean 213.1
Std Dev 182.9

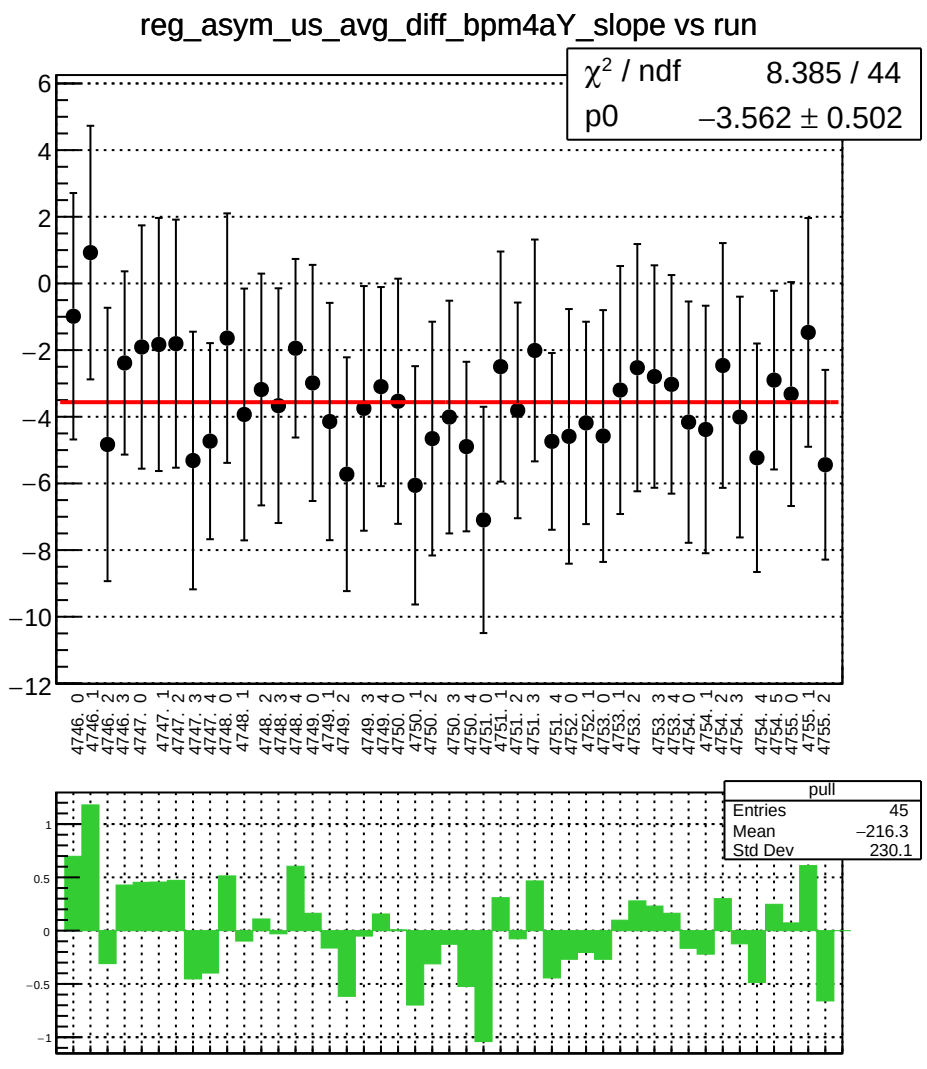

pull1D
Entries 45
Mean −0.004607
Std Dev 0.3583

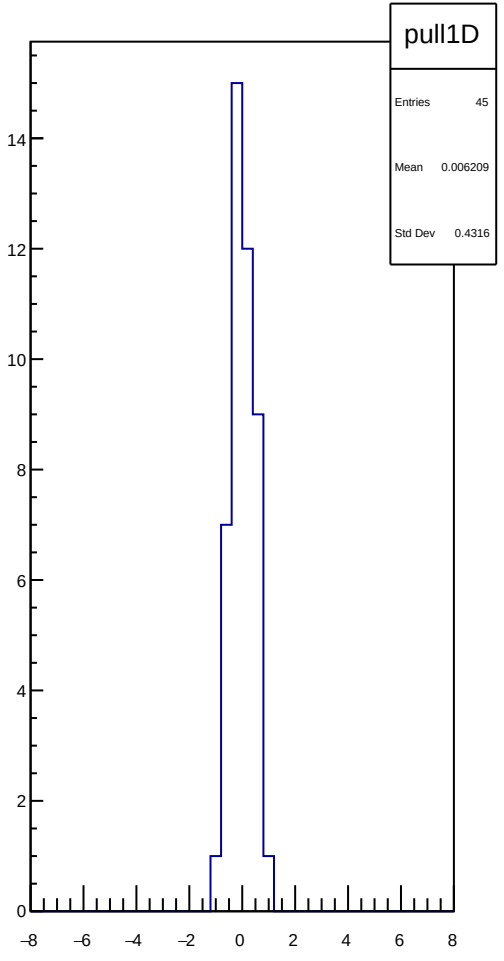

reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 4.112 / 44
p0 −59.17 ± 0.2355
pull
Entries 45
Mean −82.58
Std Dev 106.4

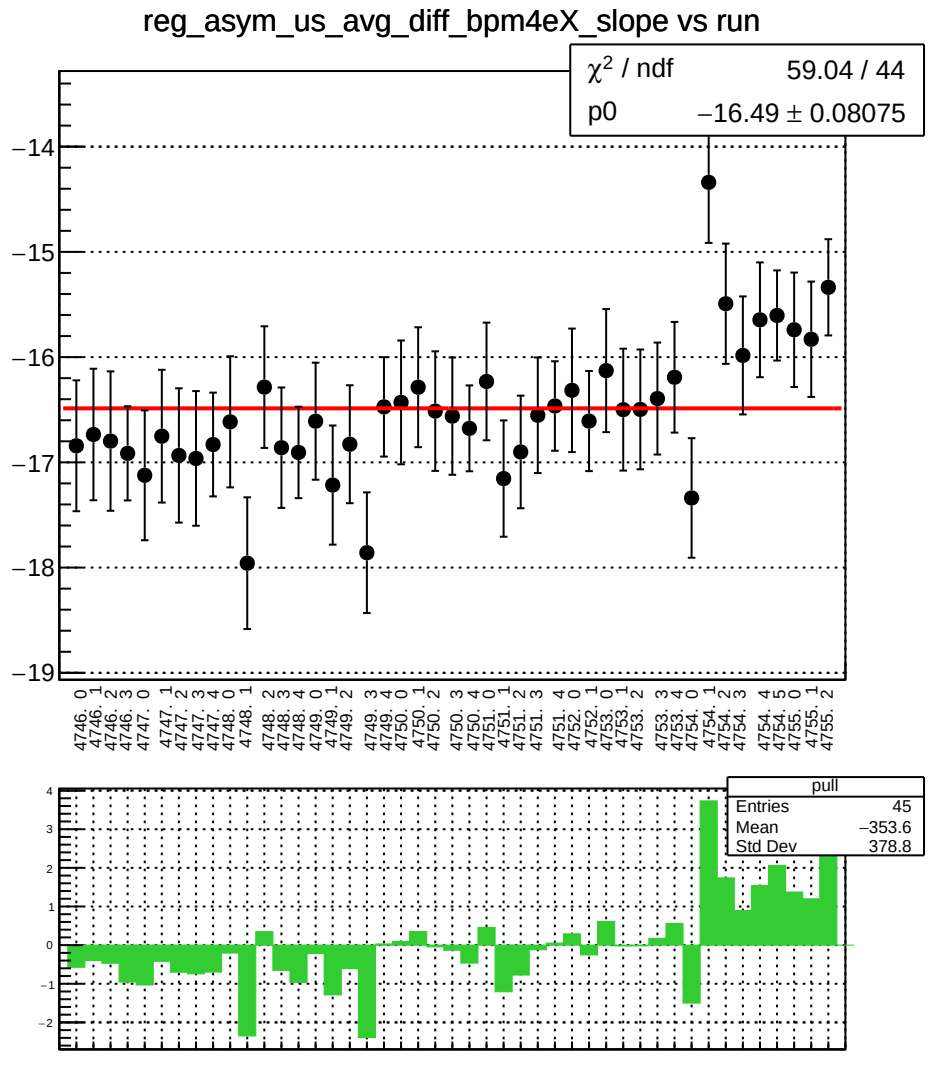

pull1D
Entries 45
Mean 0.01098
Std Dev 0.3021

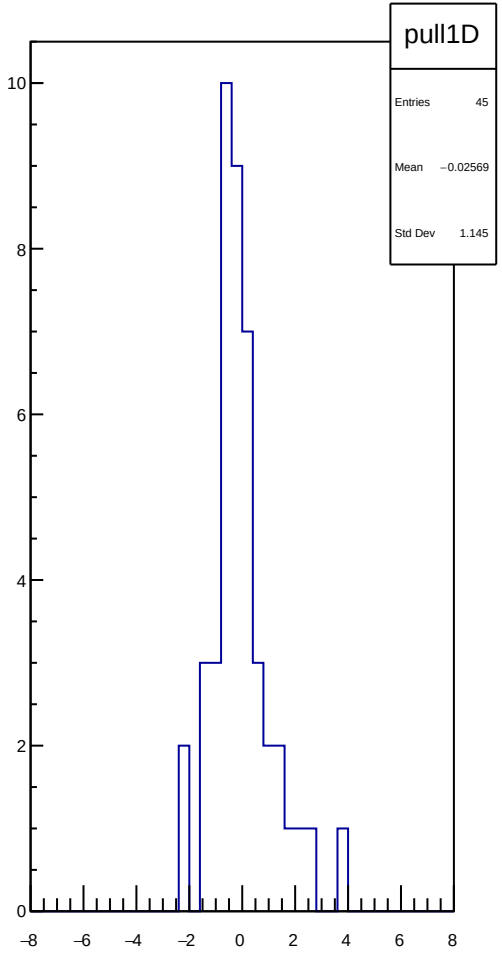

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 12.64 / 44
p0 3.853 ± 0.4015
pull
Entries 45
Mean 17.37
Std Dev 27.58

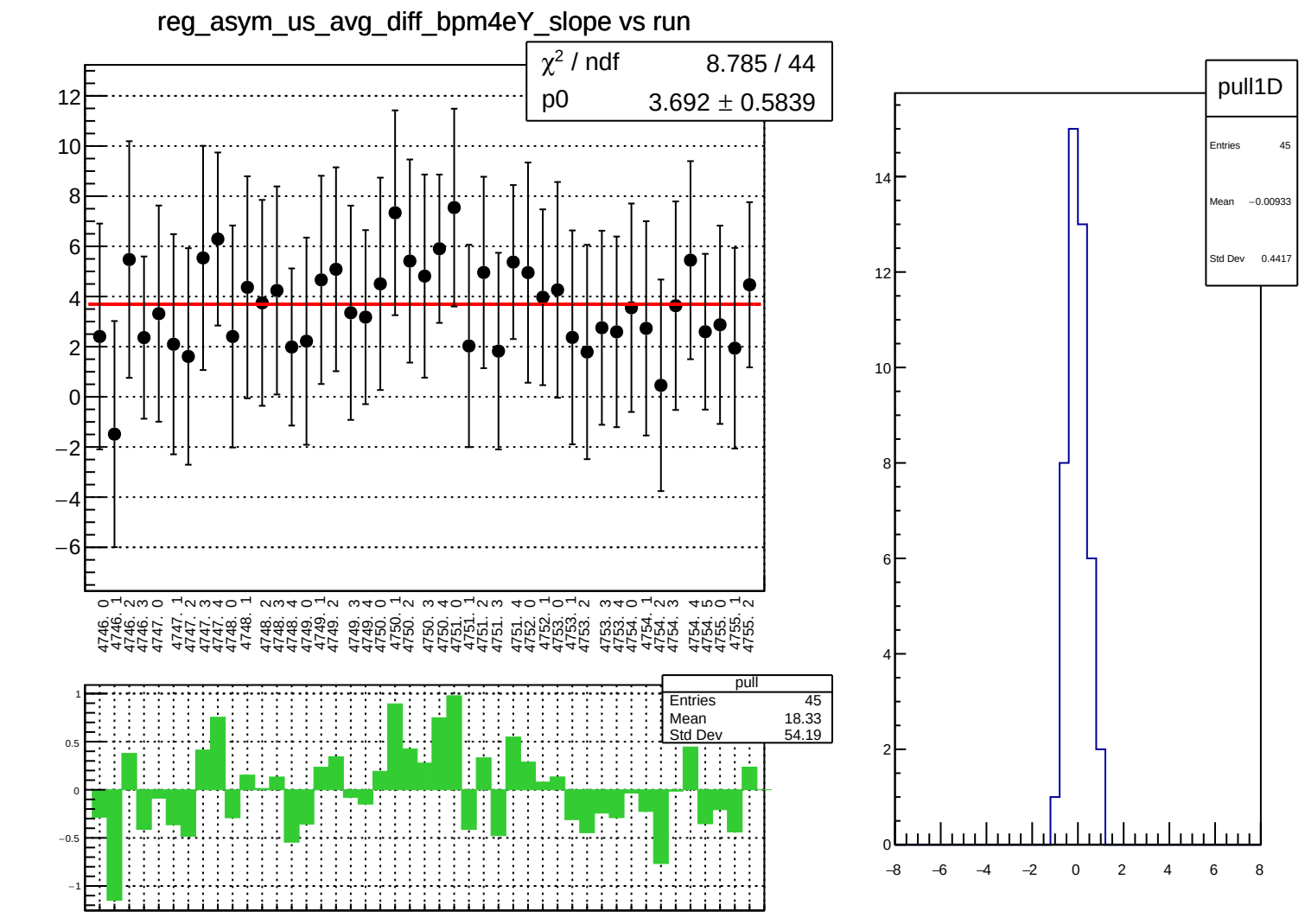

pull1D
Entries 45
Mean −0.01648
Std Dev 0.5298

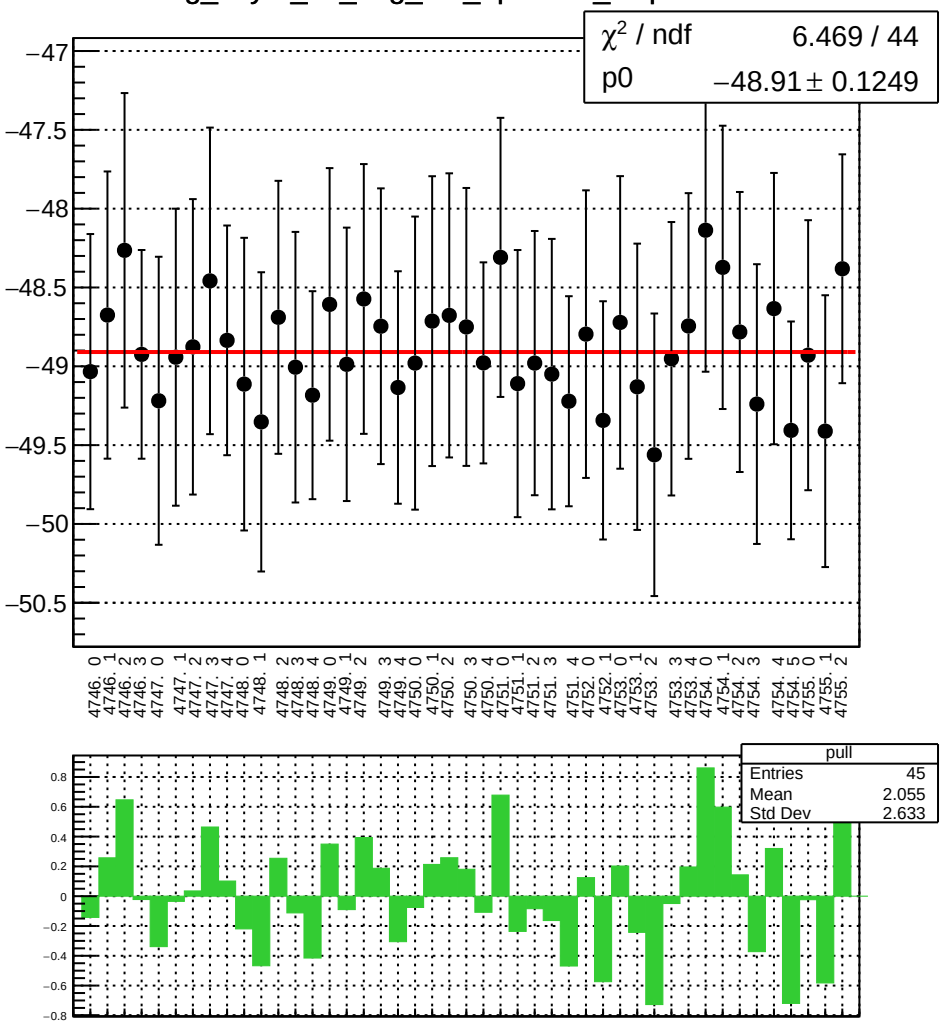

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.385 / 44
p0 −3.562 ± 0.502
pull
Entries 45
Mean −216.3
Std Dev 230.1

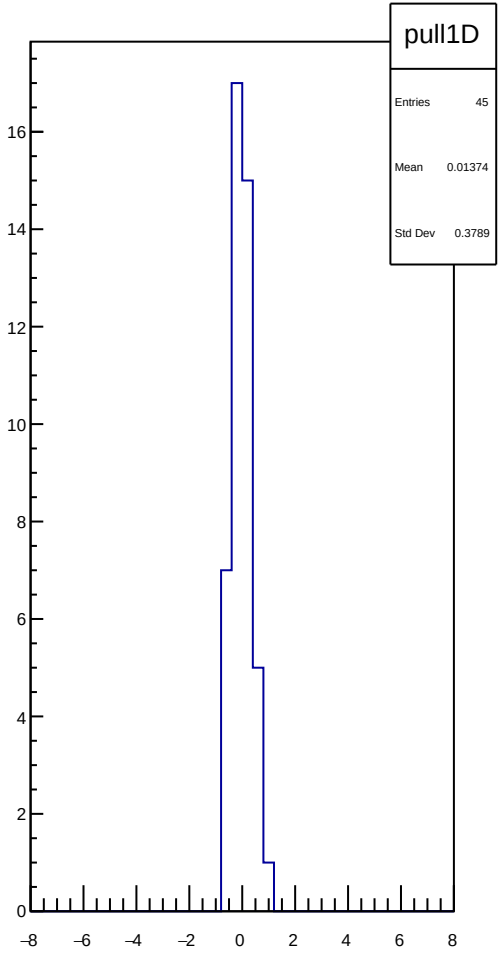

pull1D
Entries 45
Mean 0.006209
Std Dev 0.4316

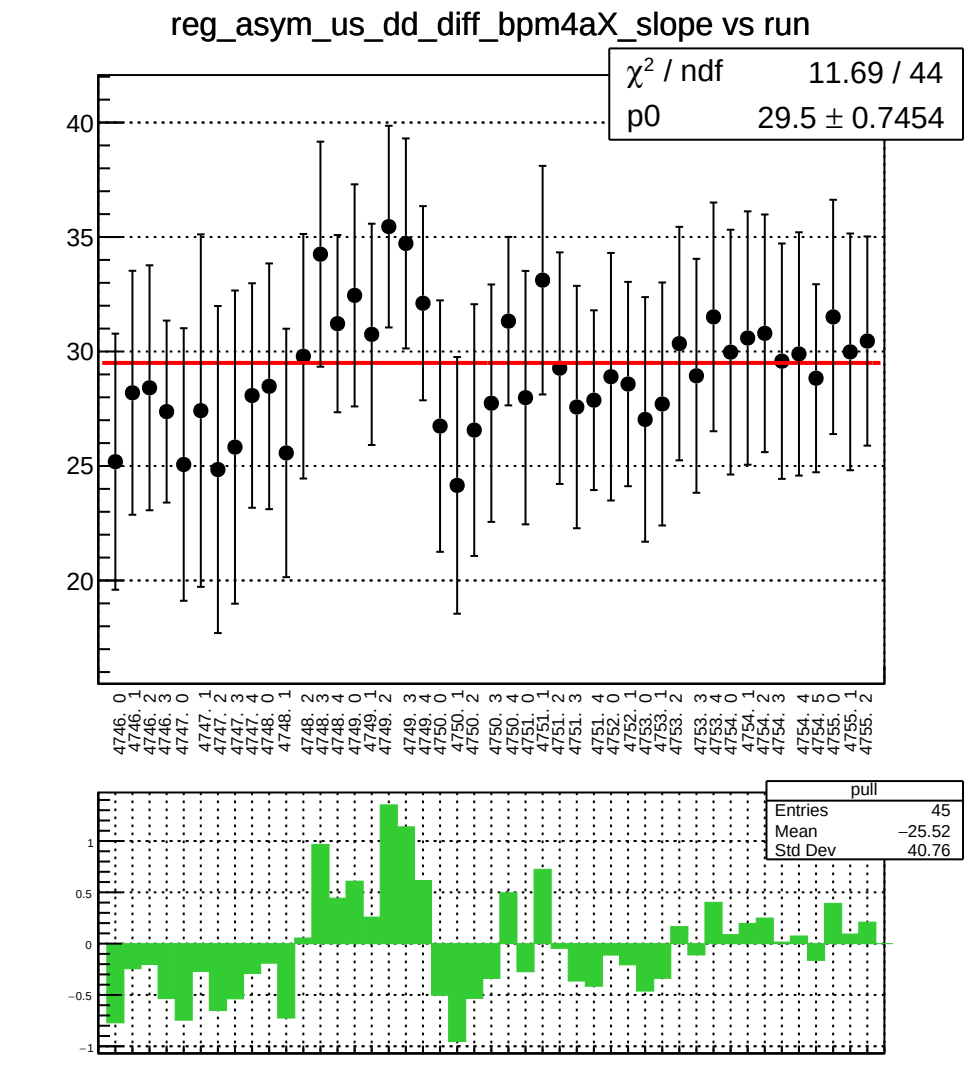

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 59.04 / 44
p0 −16.49 ± 0.08075
pull
Entries 45
Mean −353.6
Std Dev 378.8

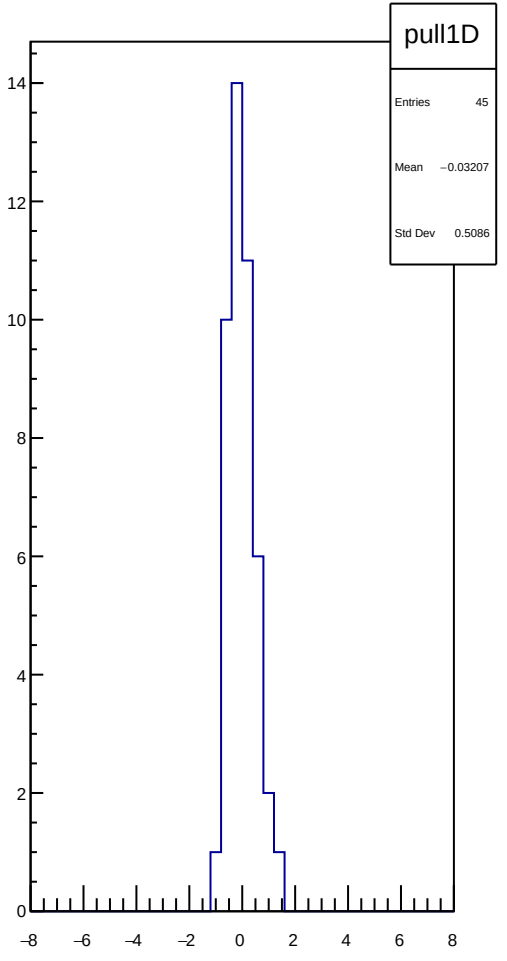

pull1D
Entries 45
Mean −0.02569
Std Dev 1.145

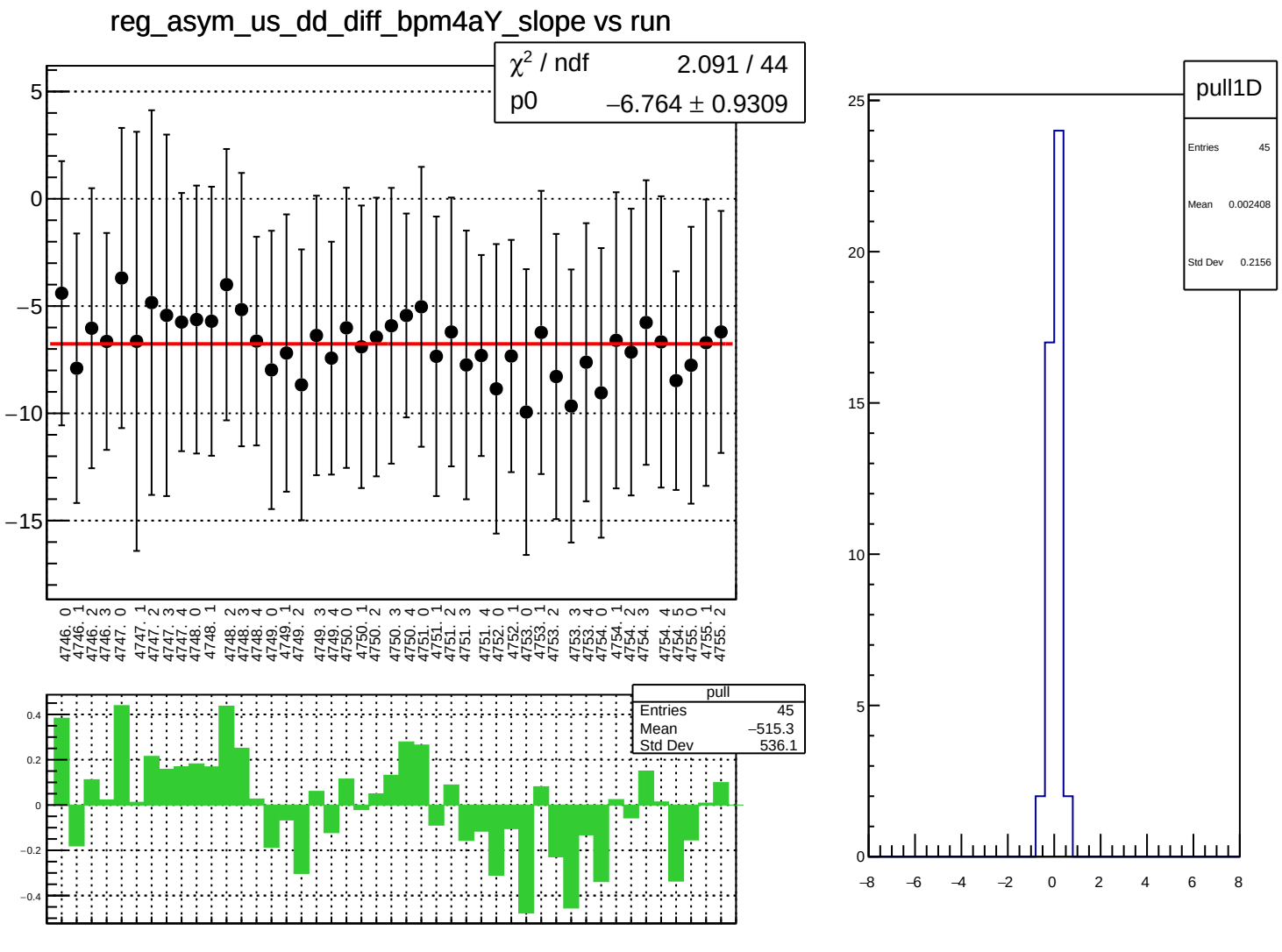

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.785 / 44
p0 3.692 ± 0.5839
pull
Entries 45
Mean 18.33
Std Dev 54.19
pull1D
Entries 45
Mean −0.00933
Std Dev 0.4417

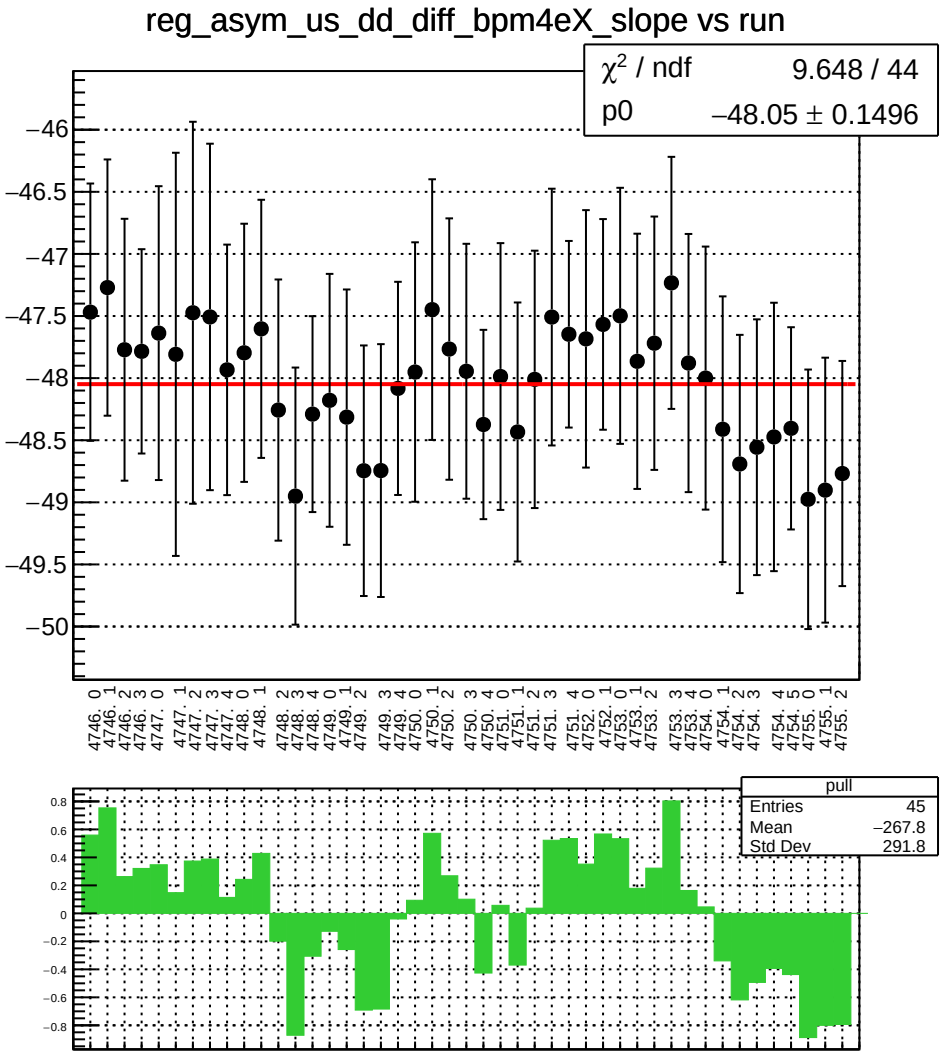

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 6.469 / 44
p0 −48.91 ± 0.1249
pull
Entries 45
Mean 2.055
Std Dev 2.633

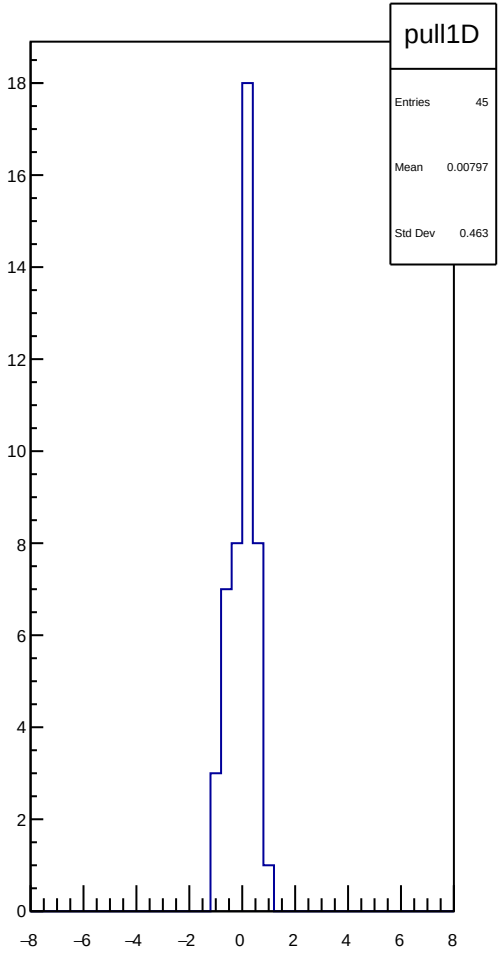

pull1D
Entries 45
Mean 0.01374
Std Dev 0.3789

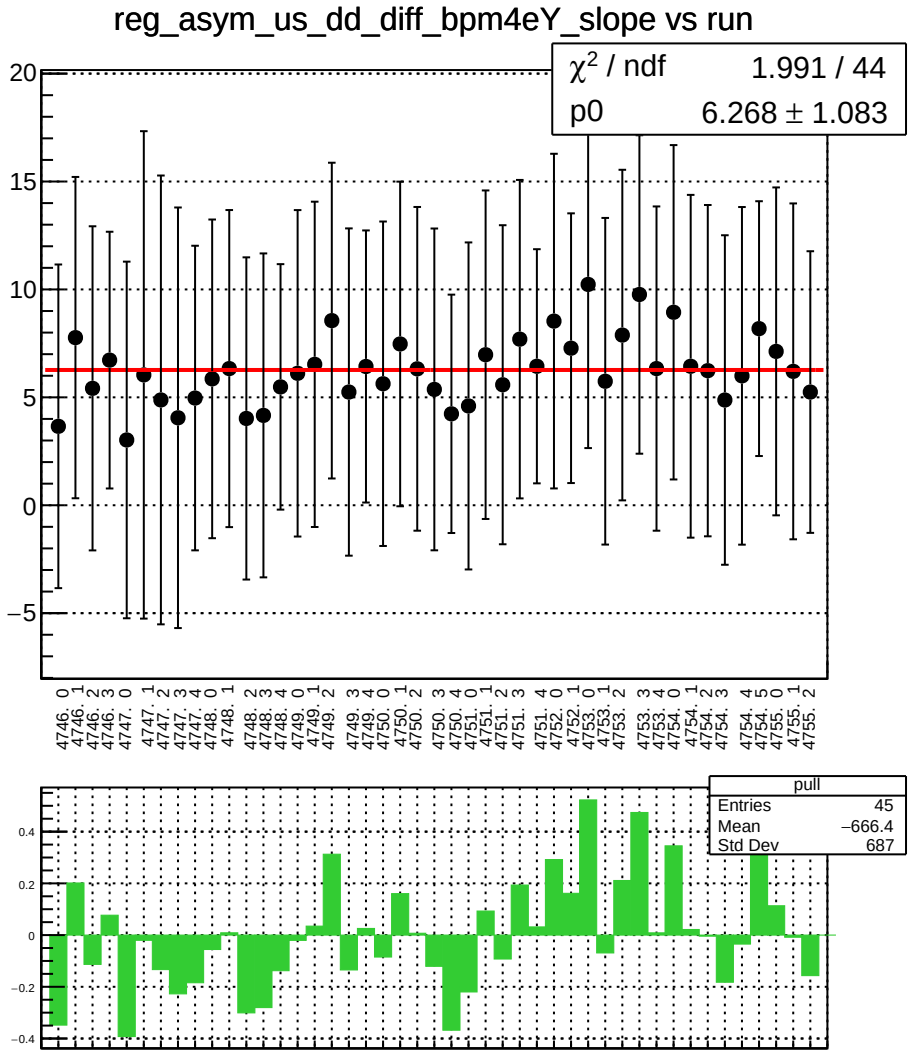

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 11.69 / 44
p0 29.5 ± 0.7454
40
35
30
25
20
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −25.52
Std Dev 40.76
1
0.5
0
−0.5
−1

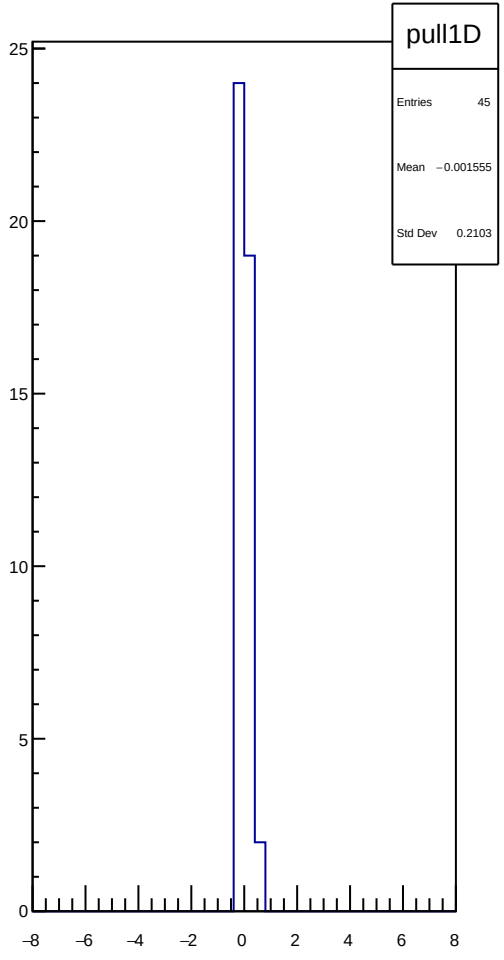

pull1D
Entries 45
Mean −0.03207
Std Dev 0.5086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

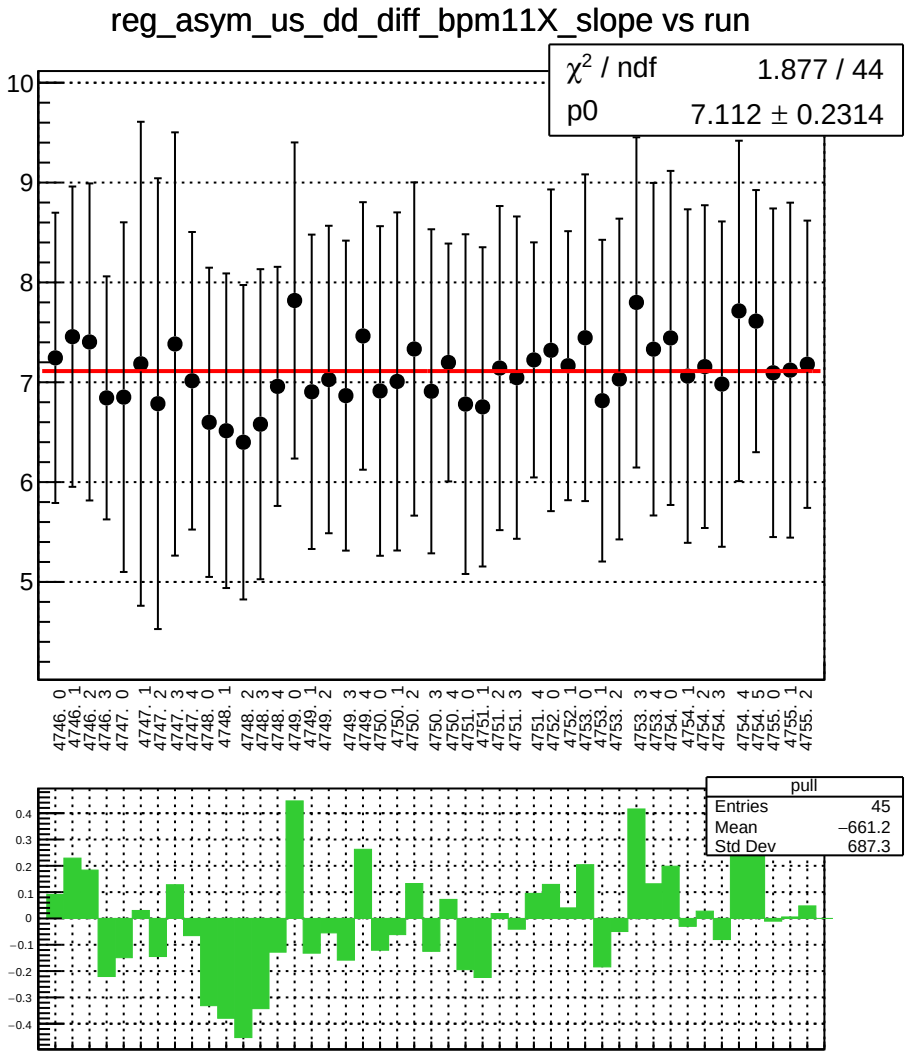

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.091 / 44
p0 −6.764 ± 0.9309
pull
Entries 45
Mean −515.3
Std Dev 536.1
pull1D
Entries 45
Mean 0.002408
Std Dev 0.2156

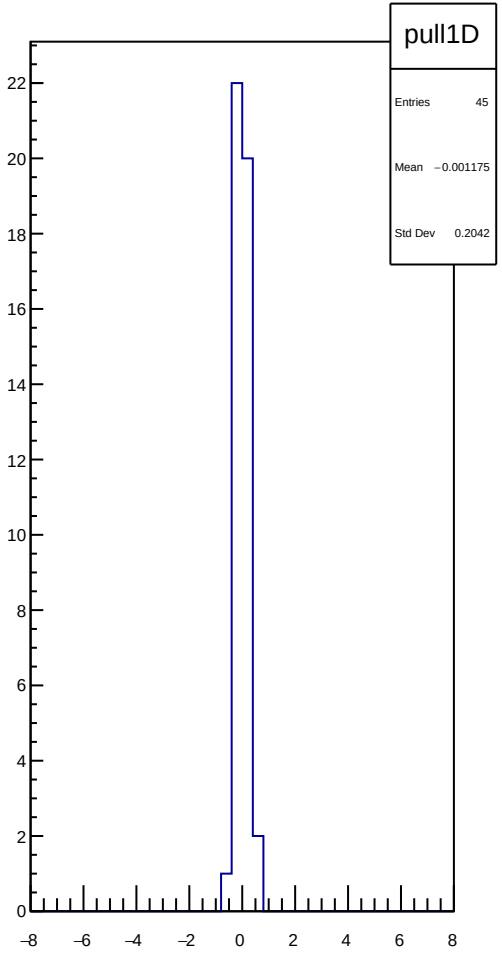

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.648 / 44
p0 −48.05 ± 0.1496
pull
Entries 45
Mean −267.8
Std Dev 291.8

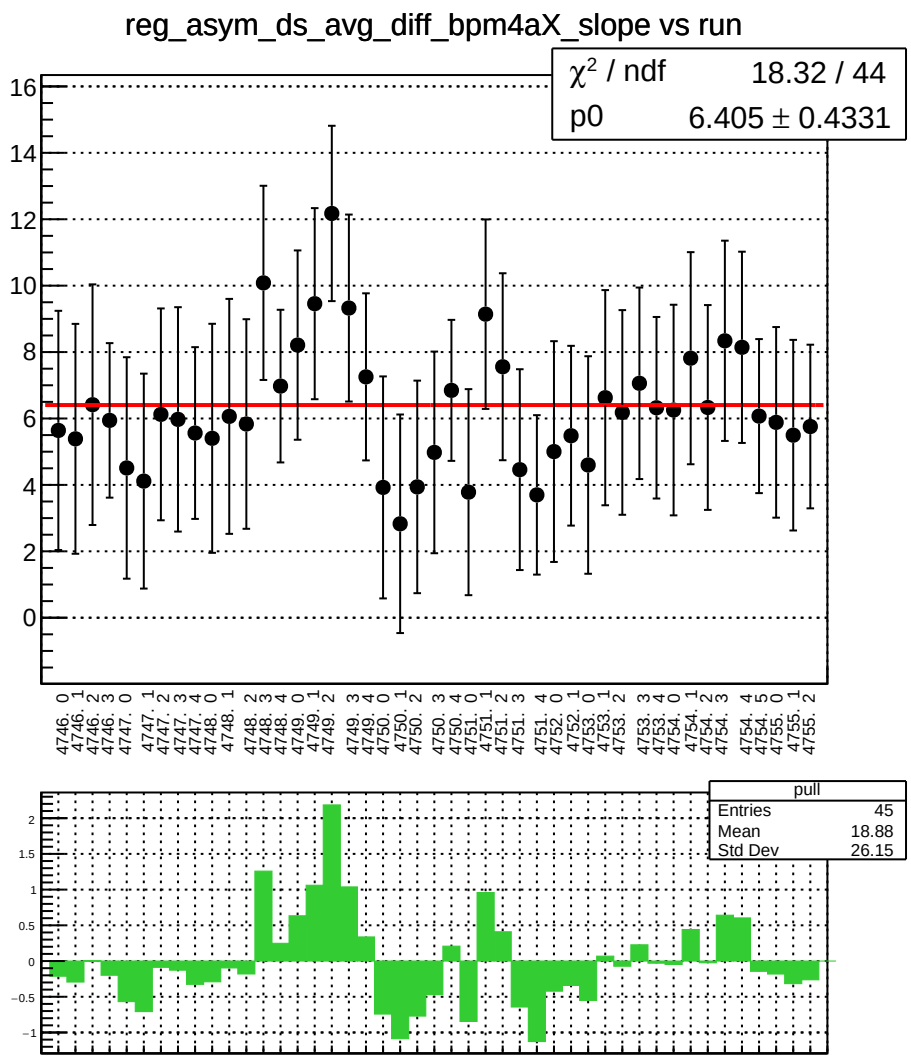

pull1D
Entries 45
Mean 0.00797
Std Dev 0.463

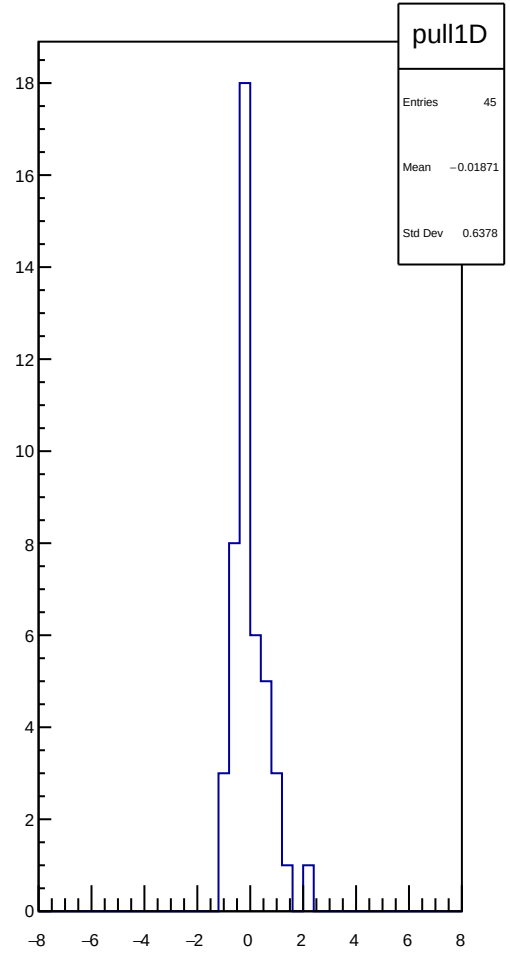

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.991 / 44
p0 6.268 ± 1.083
pull
Entries 45
Mean −666.4
Std Dev 687

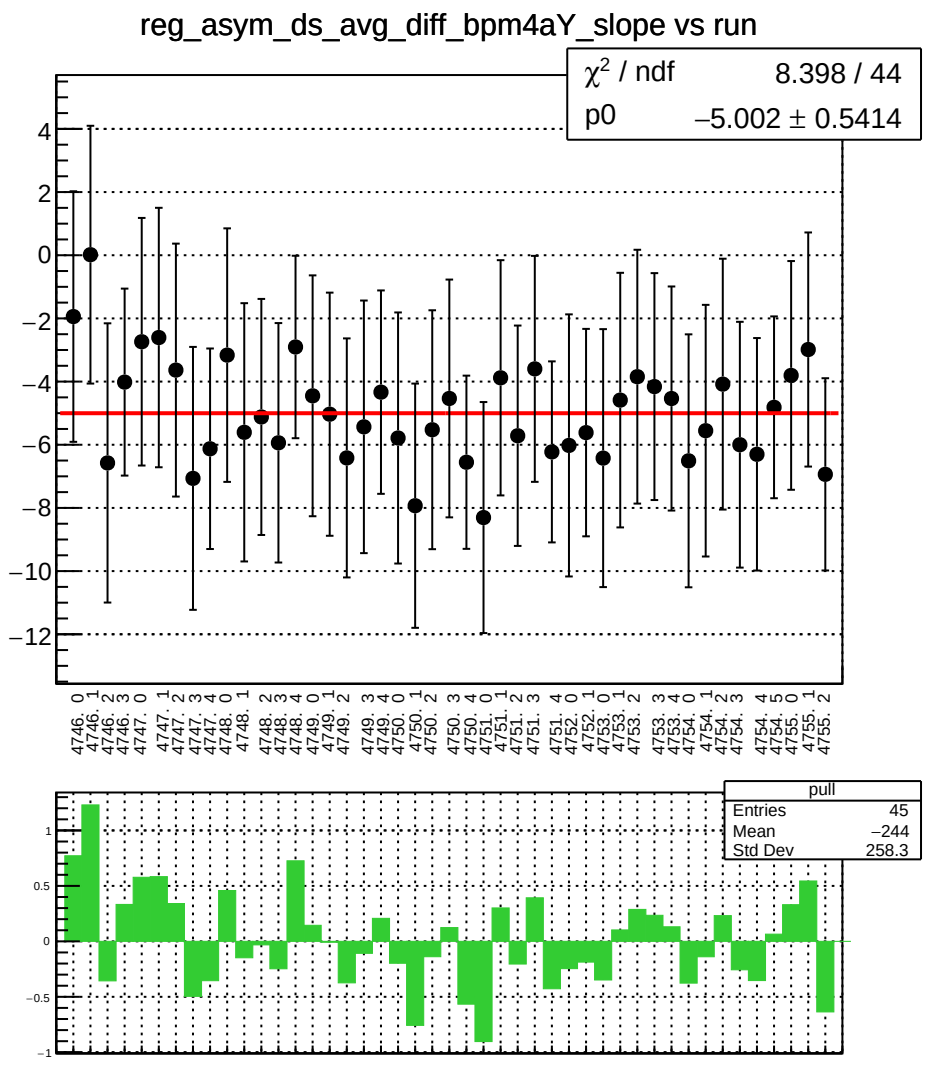

pull1D
Entries 45
Mean −0.001555
Std Dev 0.2103

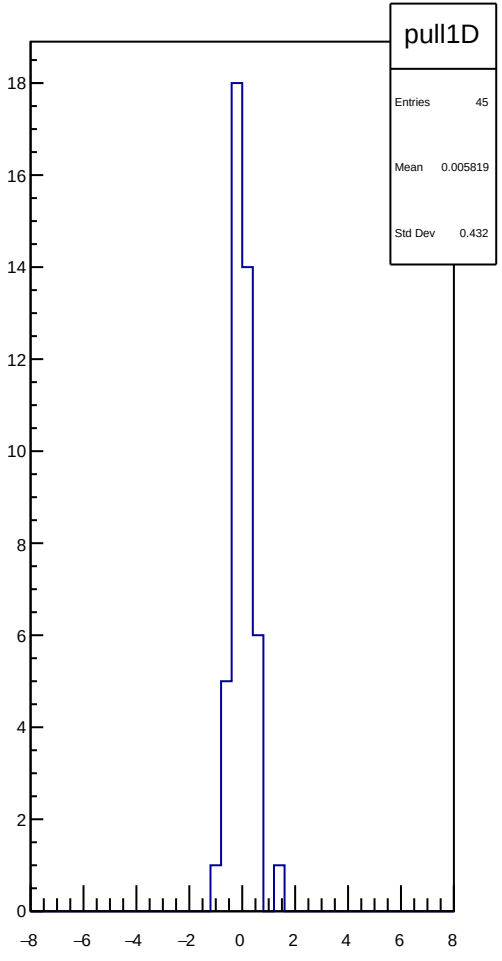

reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 1.877 / 44
p0 7.112 ± 0.2314
pull
Entries 45
Mean −661.2
Std Dev 687.3

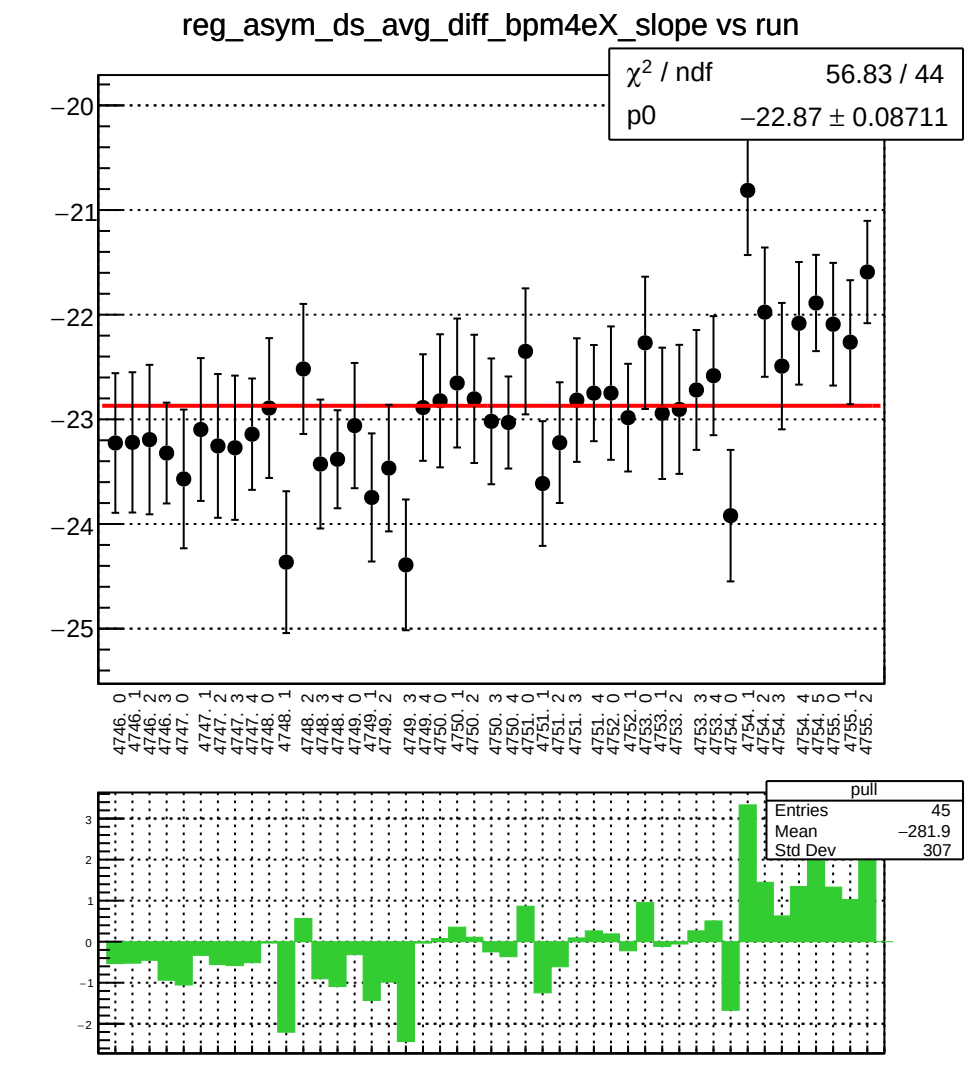

pull1D
Entries 45
Mean −0.001175
Std Dev 0.2042

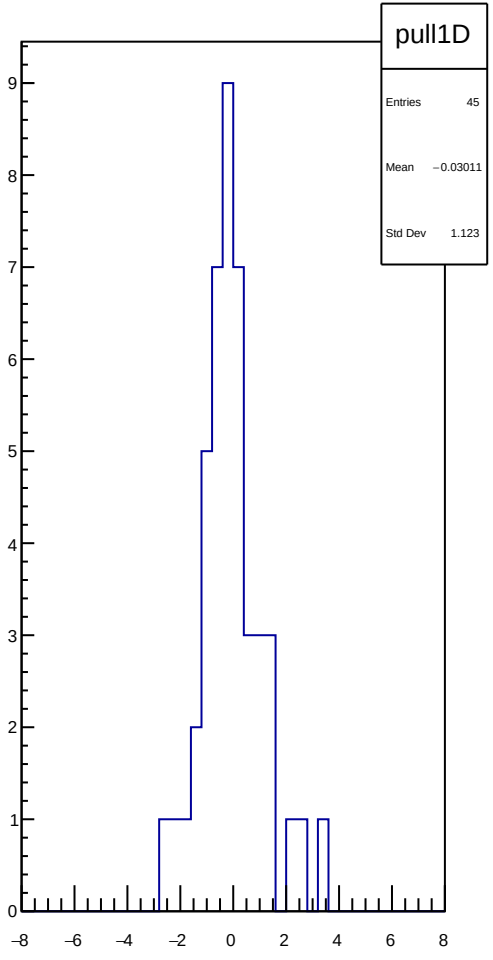

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 18.32 / 44
p0 6.405 ± 0.4331
pull
Entries 45
Mean 18.88
Std Dev 26.15

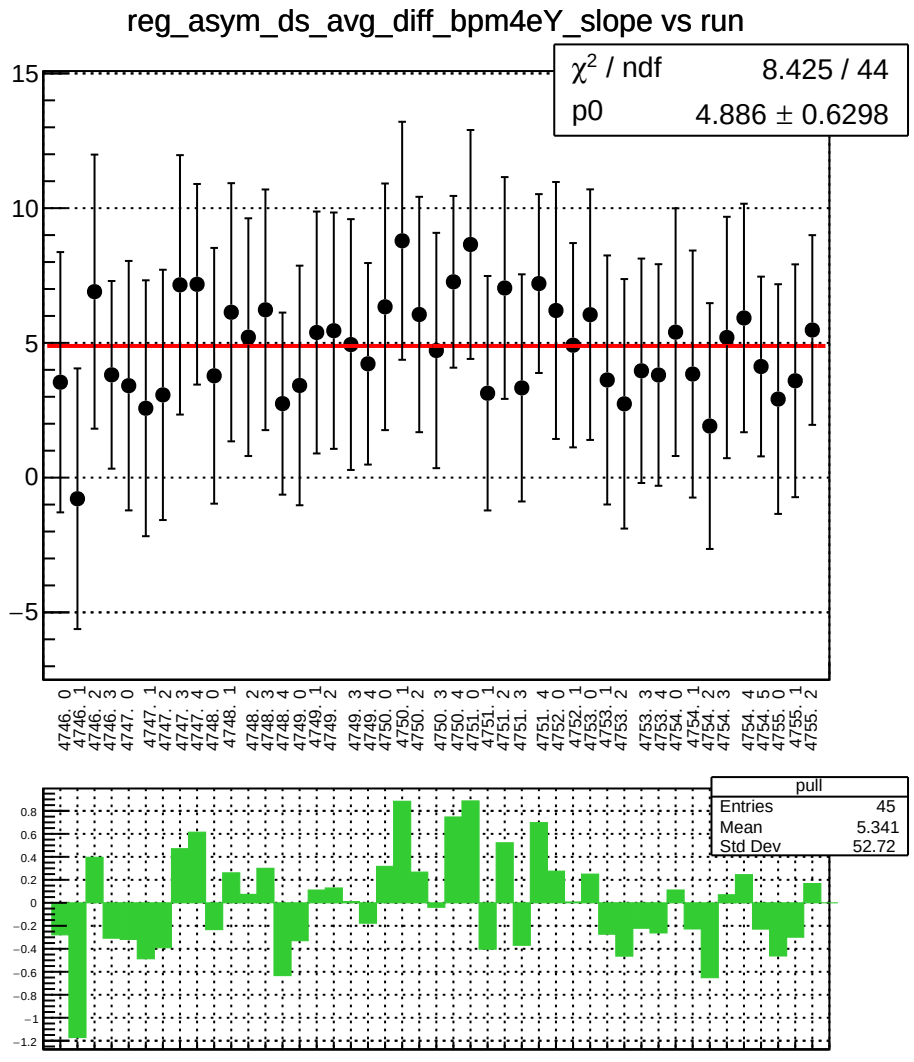

pull1D
Entries 45
Mean −0.01871
Std Dev 0.6378

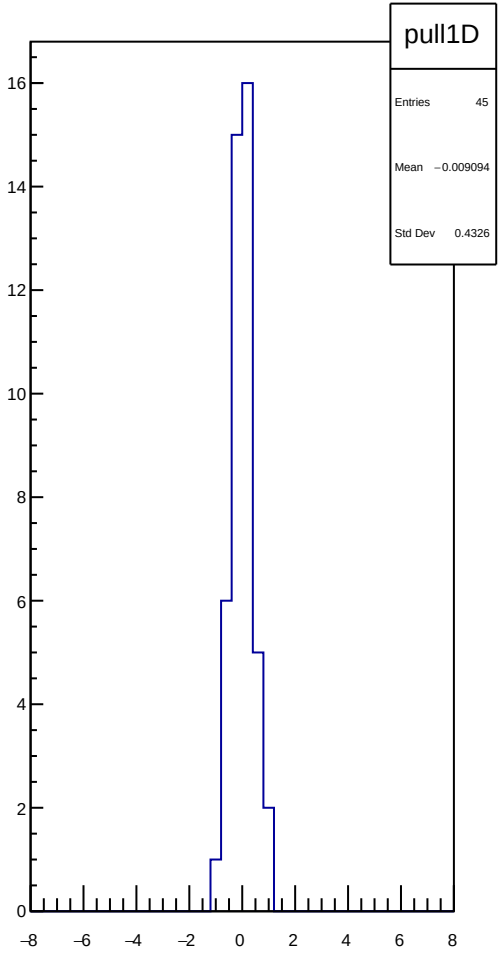

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.398 / 44
p0 −5.002 ± 0.5414
pull
Entries 45
Mean −244
Std Dev 258.3

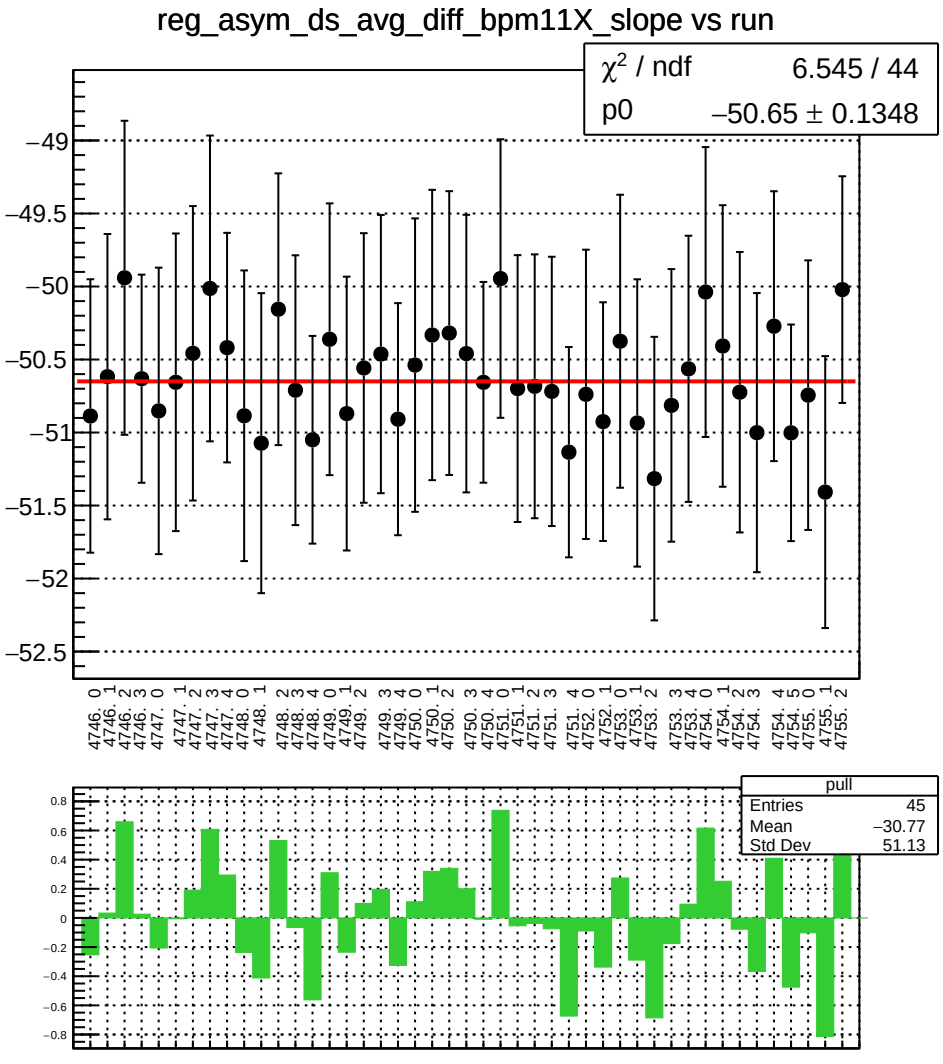

pull1D
Entries 45
Mean 0.005819
Std Dev 0.432

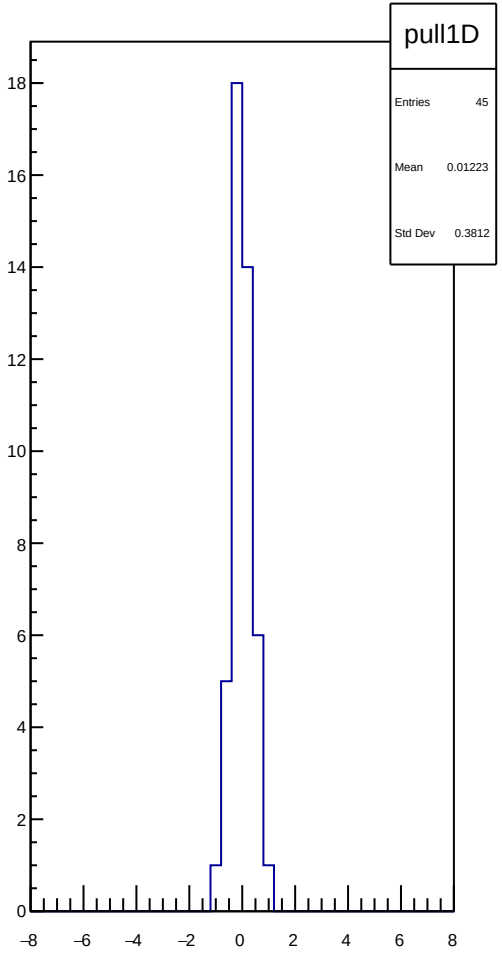

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 56.83 / 44
p0 −22.87 ± 0.08711
−20
−21
−22
−23
−24
−25
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −281.9
Std Dev 307
3
2
1
0
−1
−2

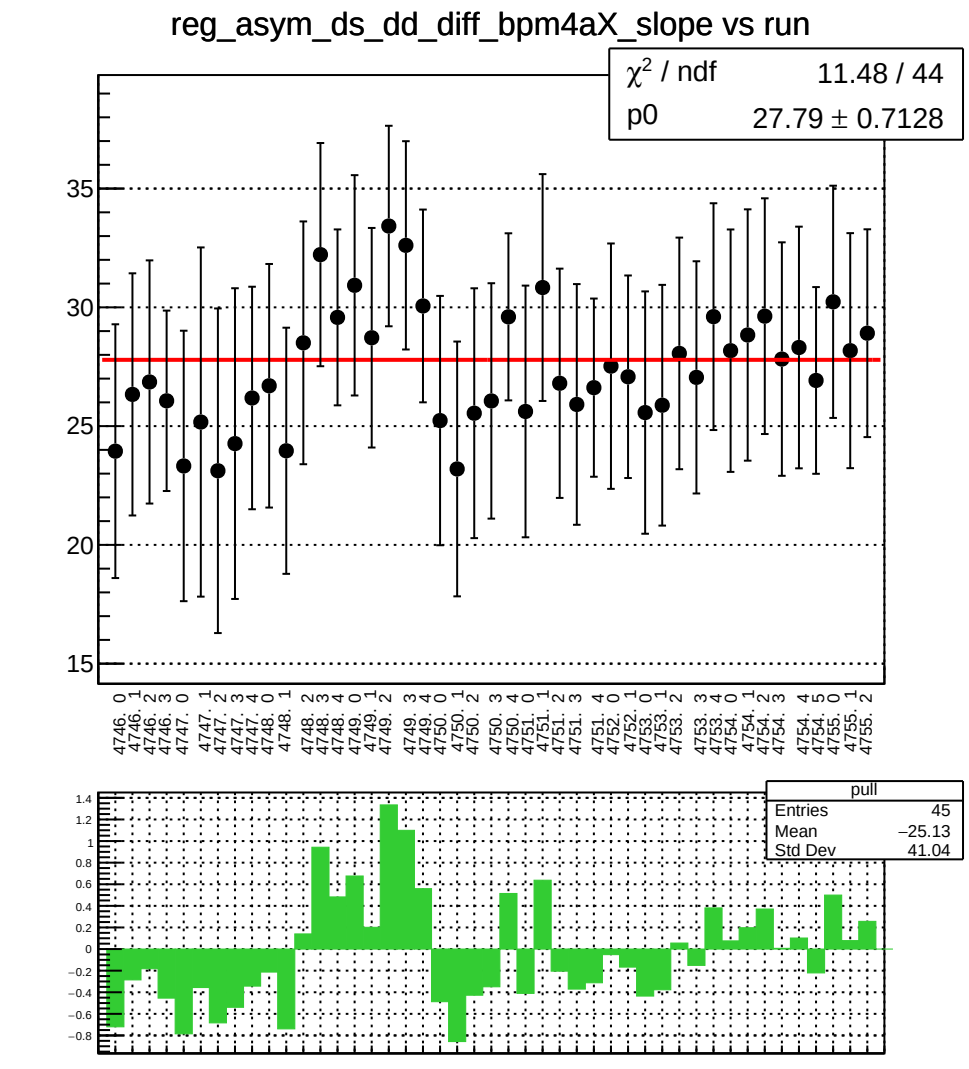

pull1D
Entries 45
Mean −0.03011
Std Dev 1.123
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

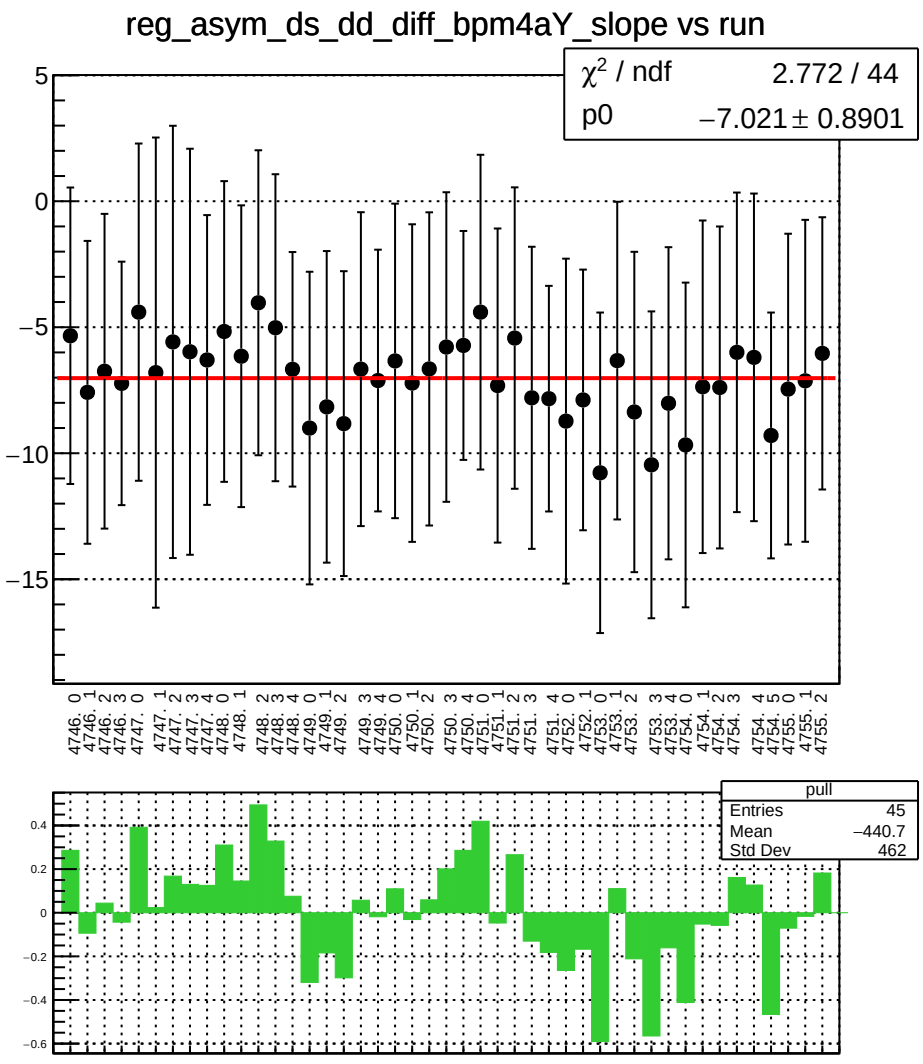

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.425 / 44
p0 4.886 ± 0.6298
pull
Entries 45
Mean 5.341
Std Dev 52.72

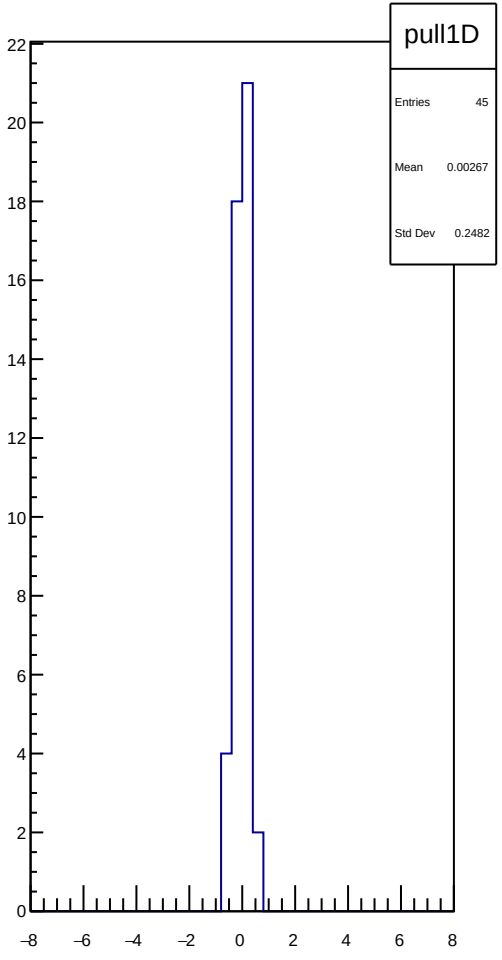

pull1D
Entries 45
Mean −0.009094
Std Dev 0.4326

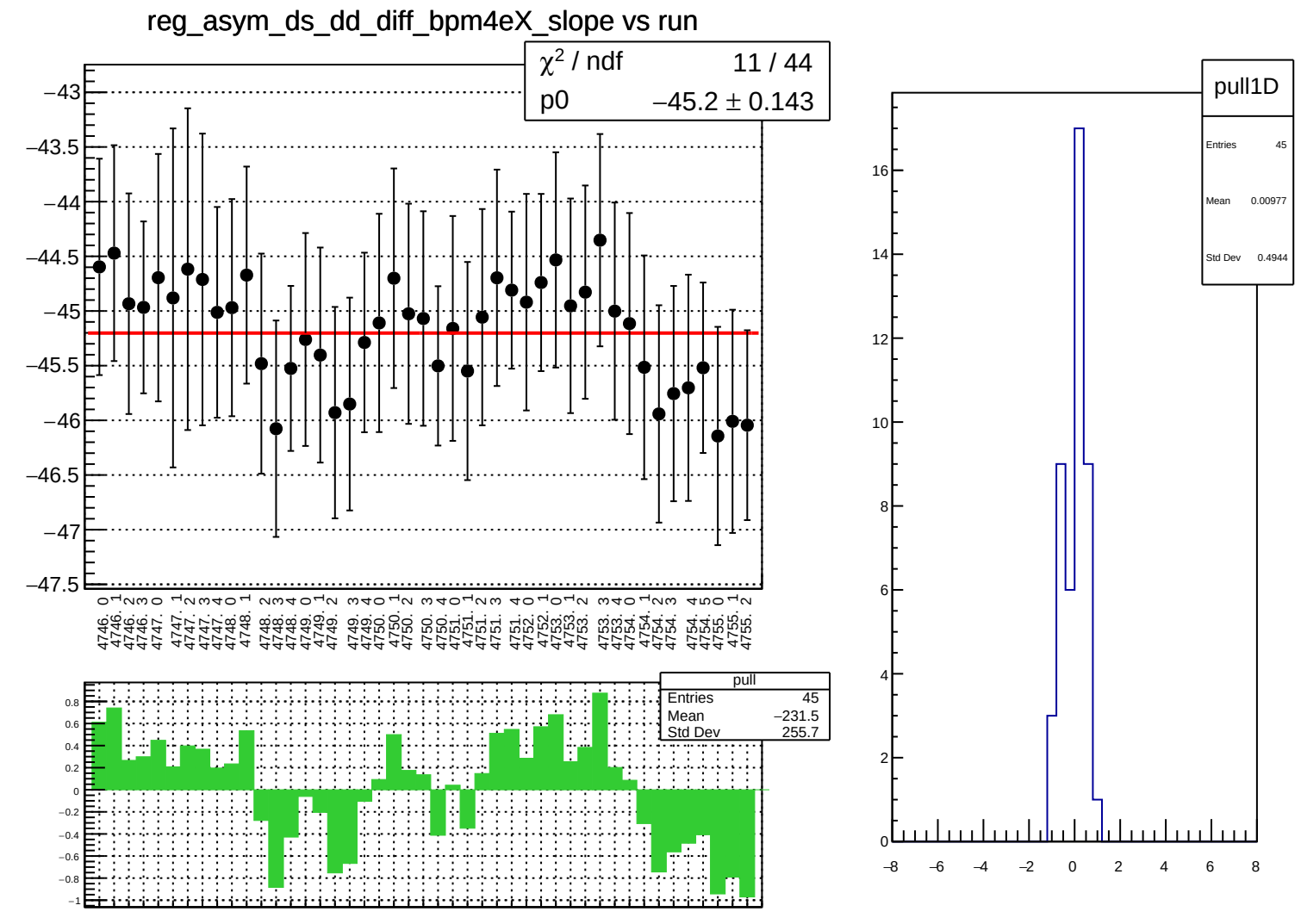

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 6.545 / 44
p0 −50.65 ± 0.1348
pull
Entries 45
Mean −30.77
Std Dev 51.13

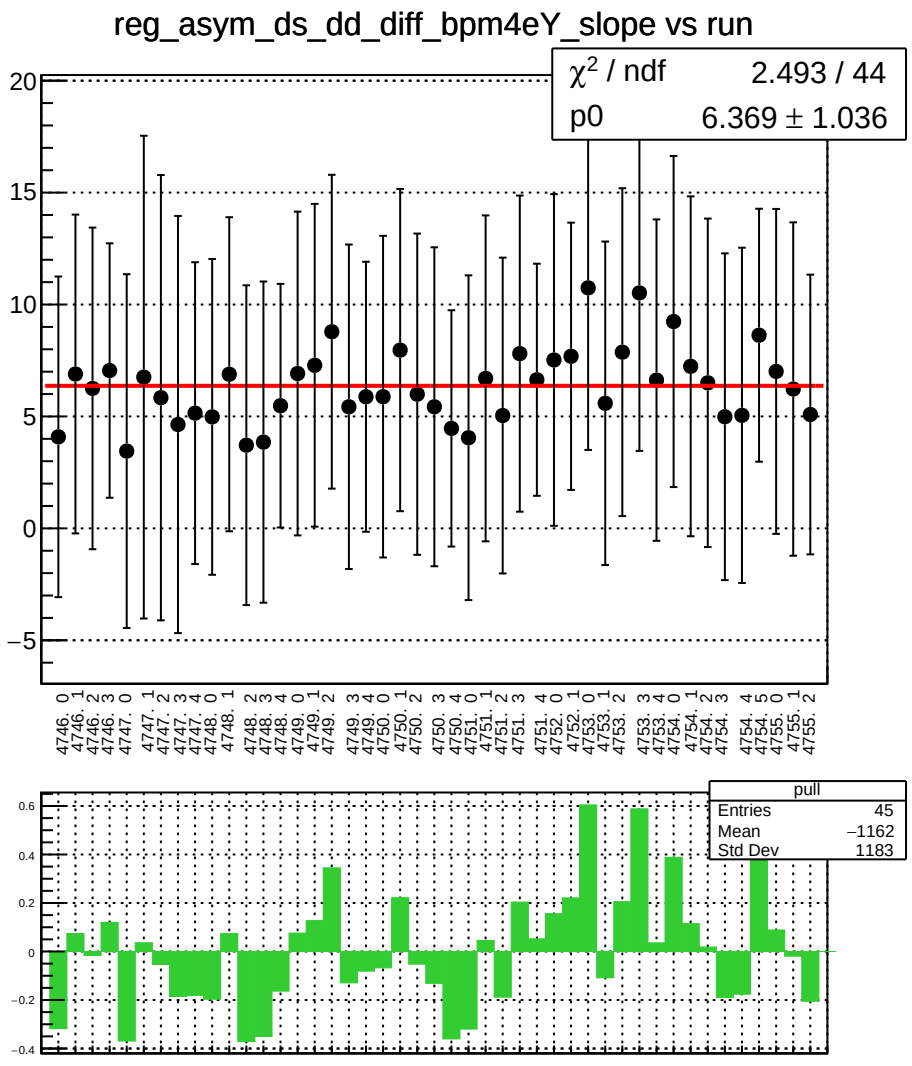

pull1D
Entries 45
Mean 0.01223
Std Dev 0.3812

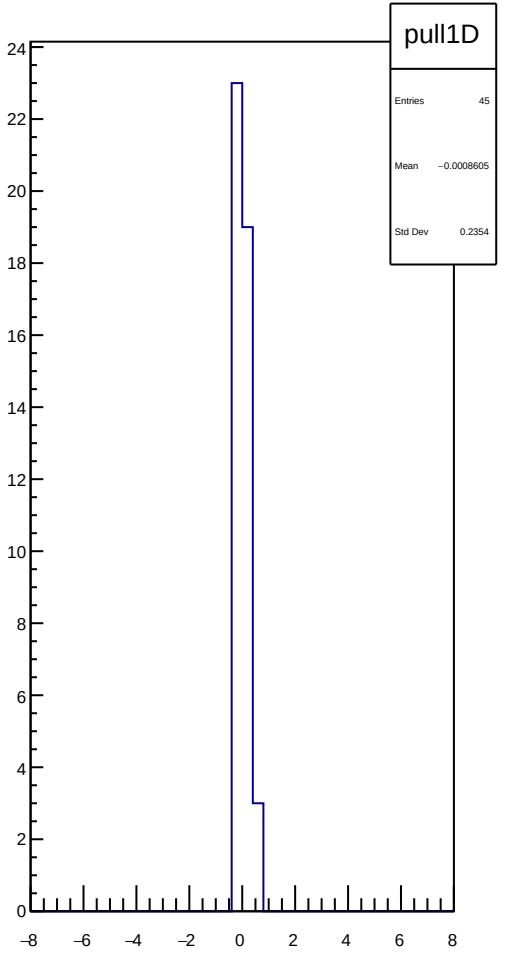

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 11.48 / 44
p0 27.79 ± 0.7128
35
30
25
20
15
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −25.13
Std Dev 41.04
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean −0.03353
Std Dev 0.5039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

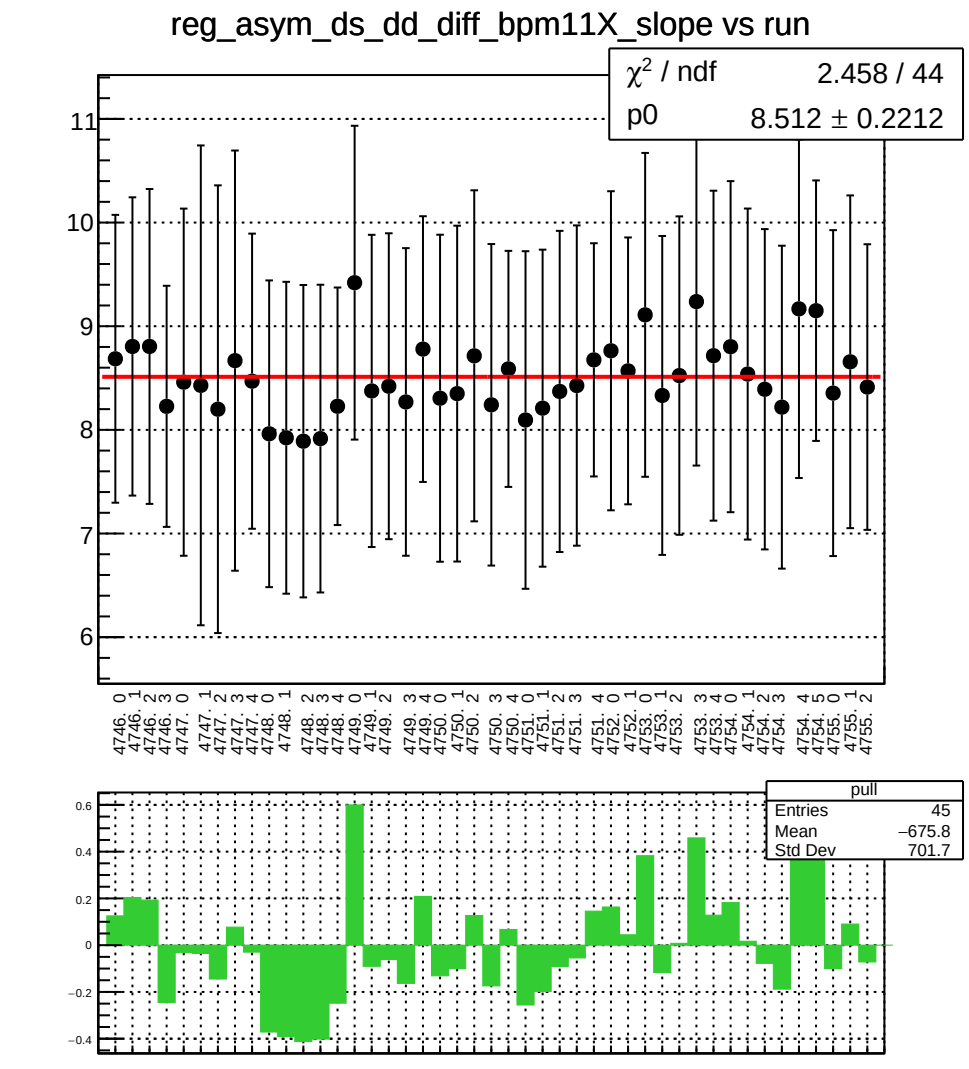

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.772 / 44
p0 −7.021 ± 0.8901
pull
Entries 45
Mean −440.7
Std Dev 462

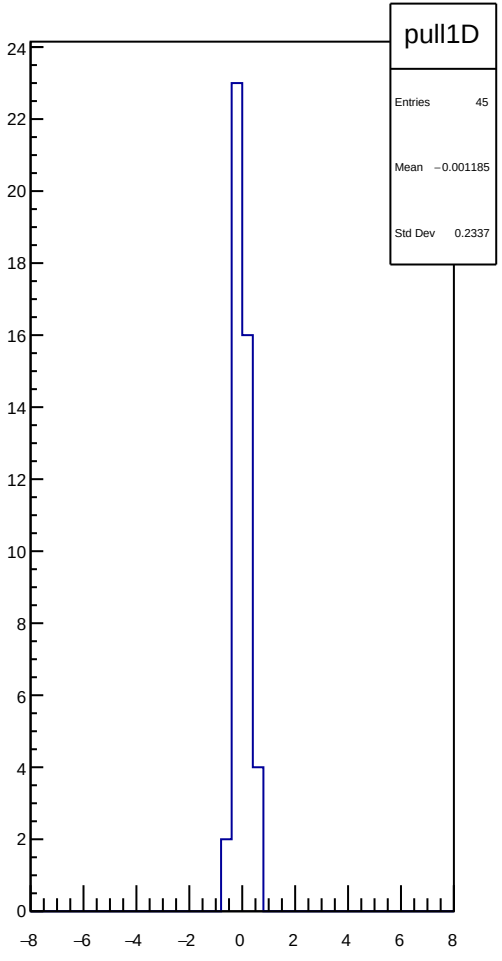

pull1D
Entries 45
Mean 0.00267
Std Dev 0.2482

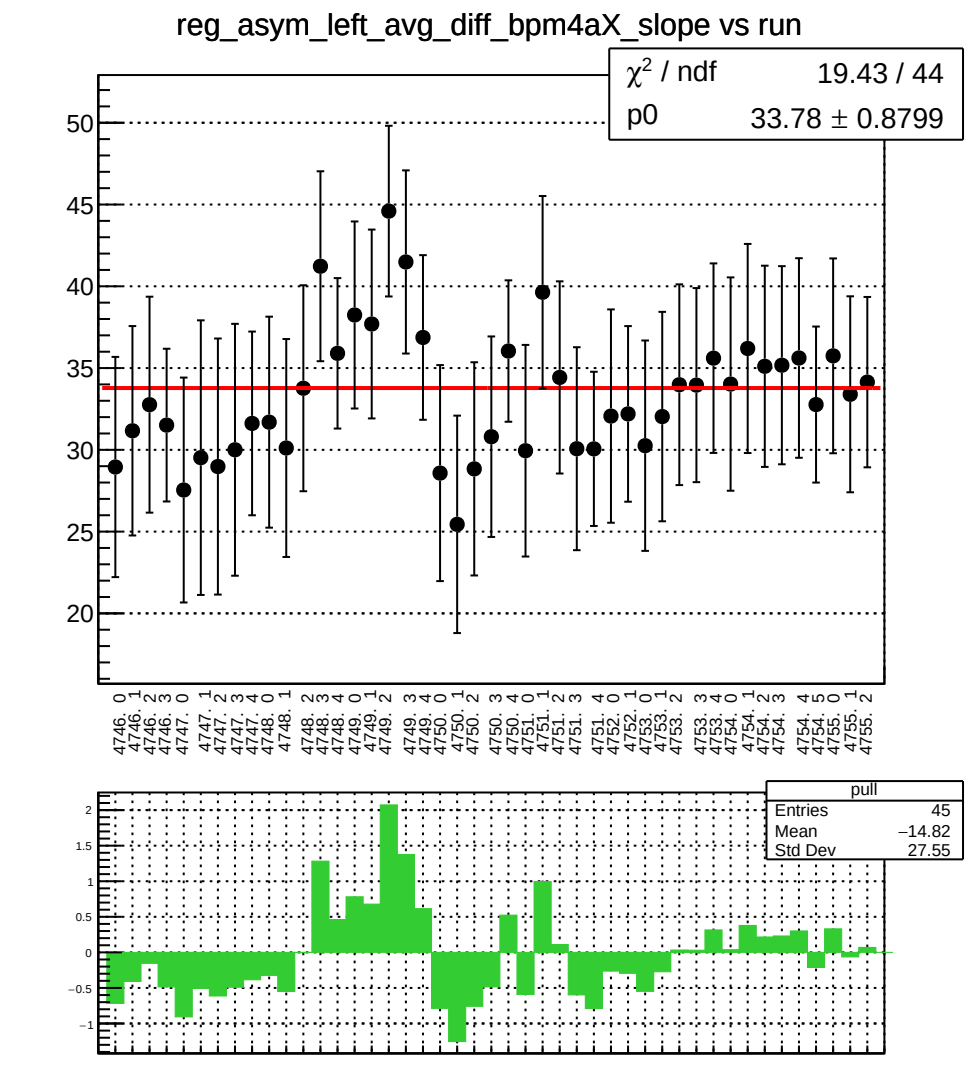

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 11 / 44
p0 −45.2 ± 0.143
pull
Entries 45
Mean −231.5
Std Dev 255.7
pull1D
Entries 45
Mean 0.00977
Std Dev 0.4944

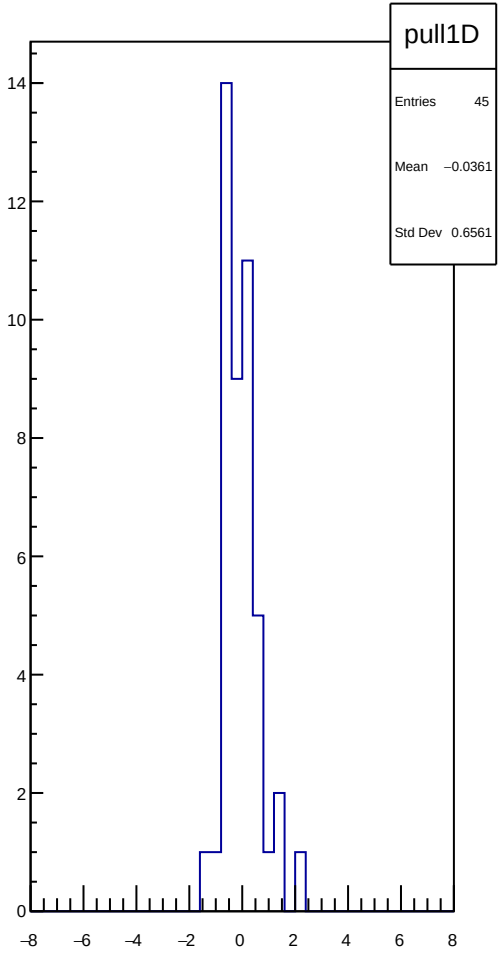

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.493 / 44
p0 6.369 ± 1.036
pull
Entries 45
Mean −1162
Std Dev 1183

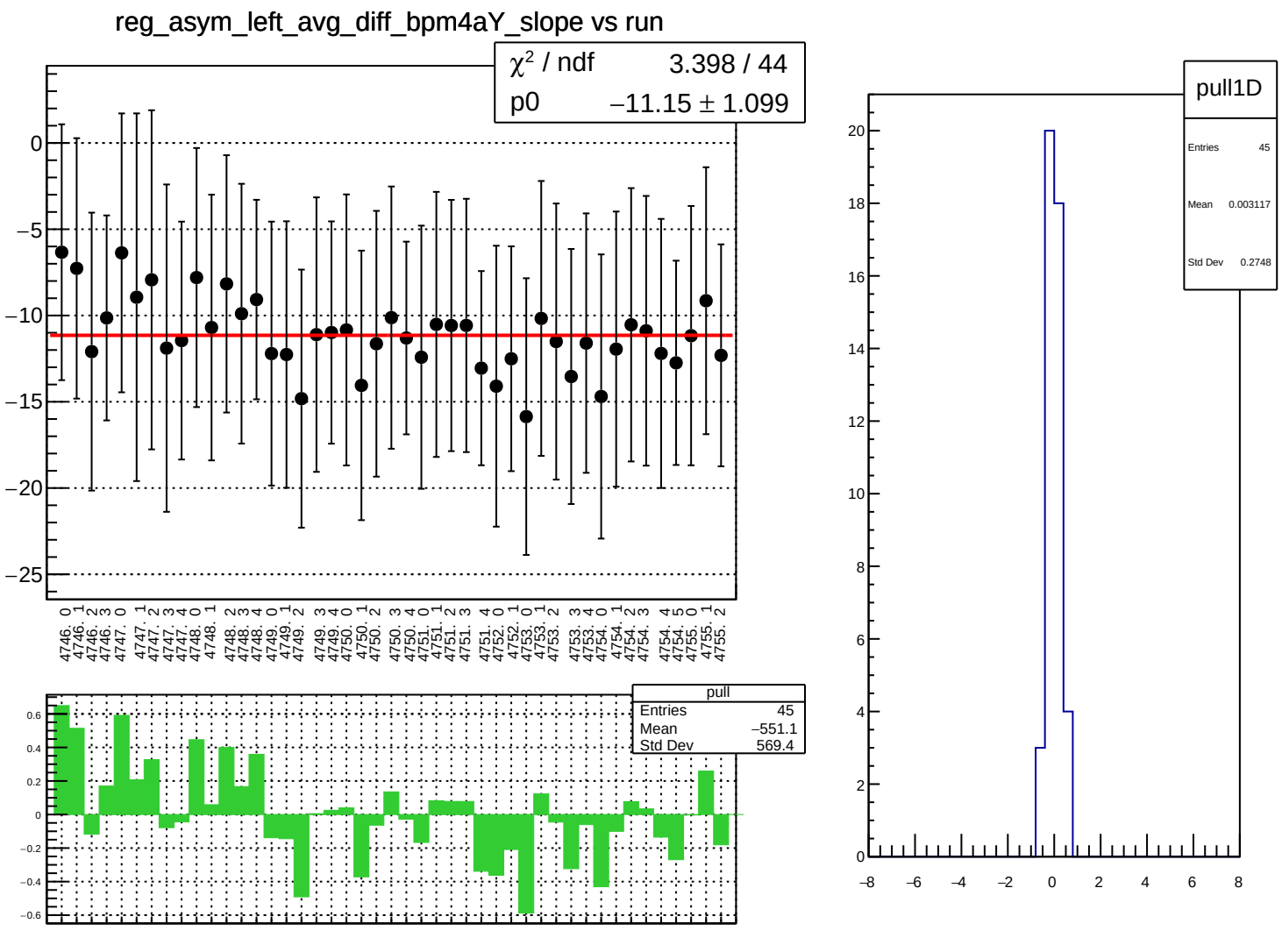

pull1D
Entries 45
Mean −0.0008605
Std Dev 0.2354

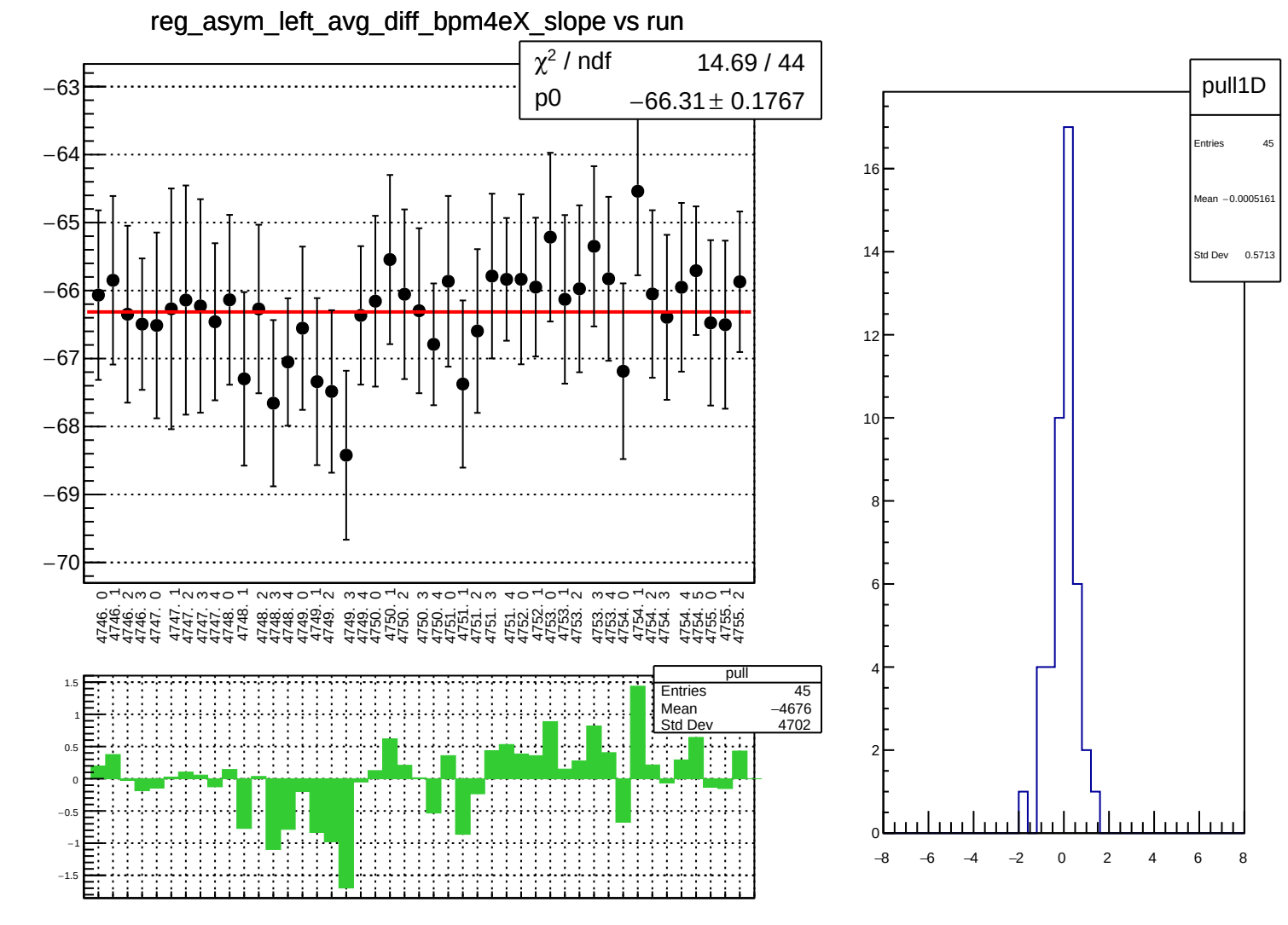

reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 2.458 / 44
p0 8.512 ± 0.2212
pull
Entries 45
Mean −675.8
Std Dev 701.7

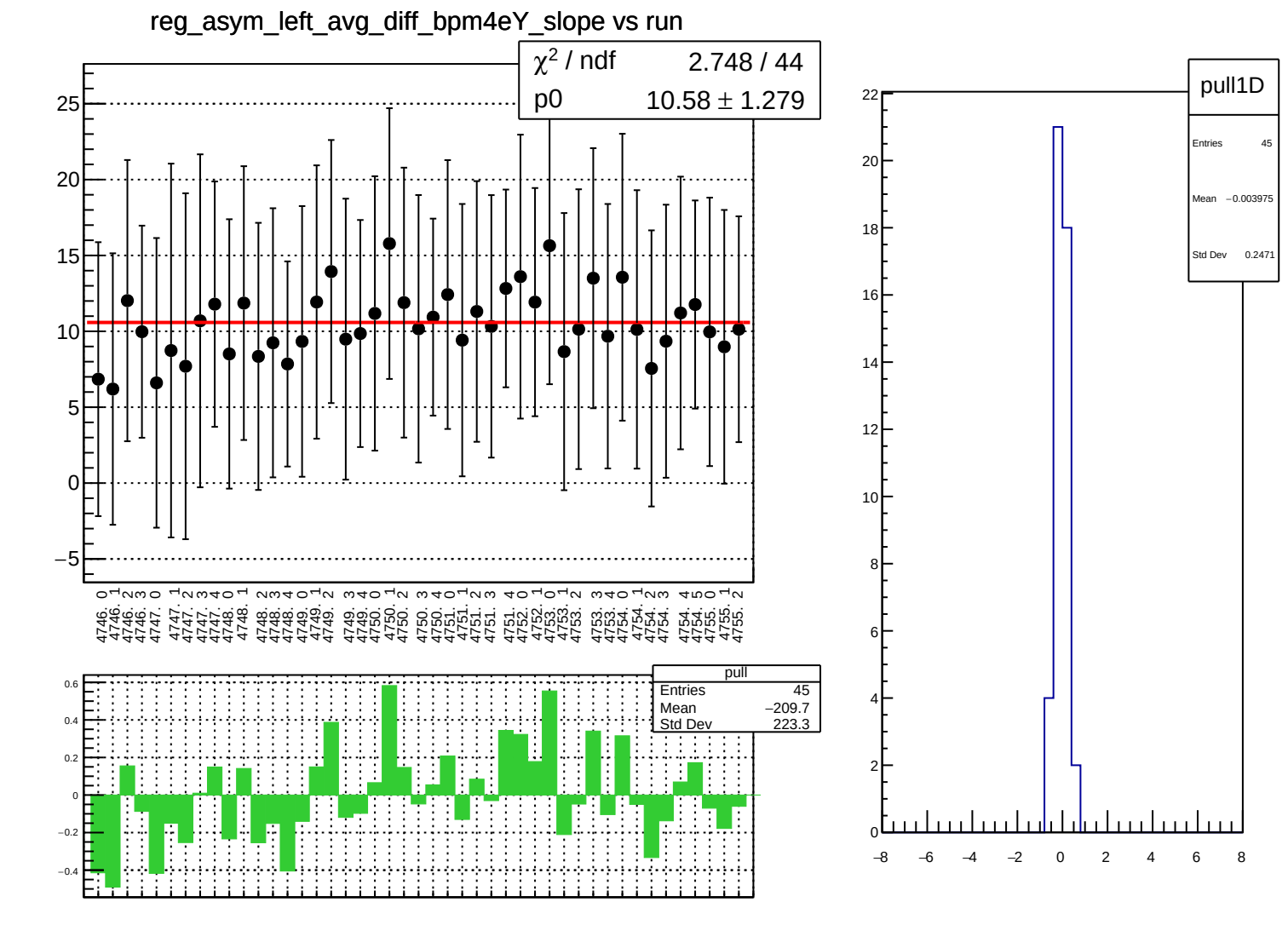

pull1D
Entries 45
Mean −0.001185
Std Dev 0.2337

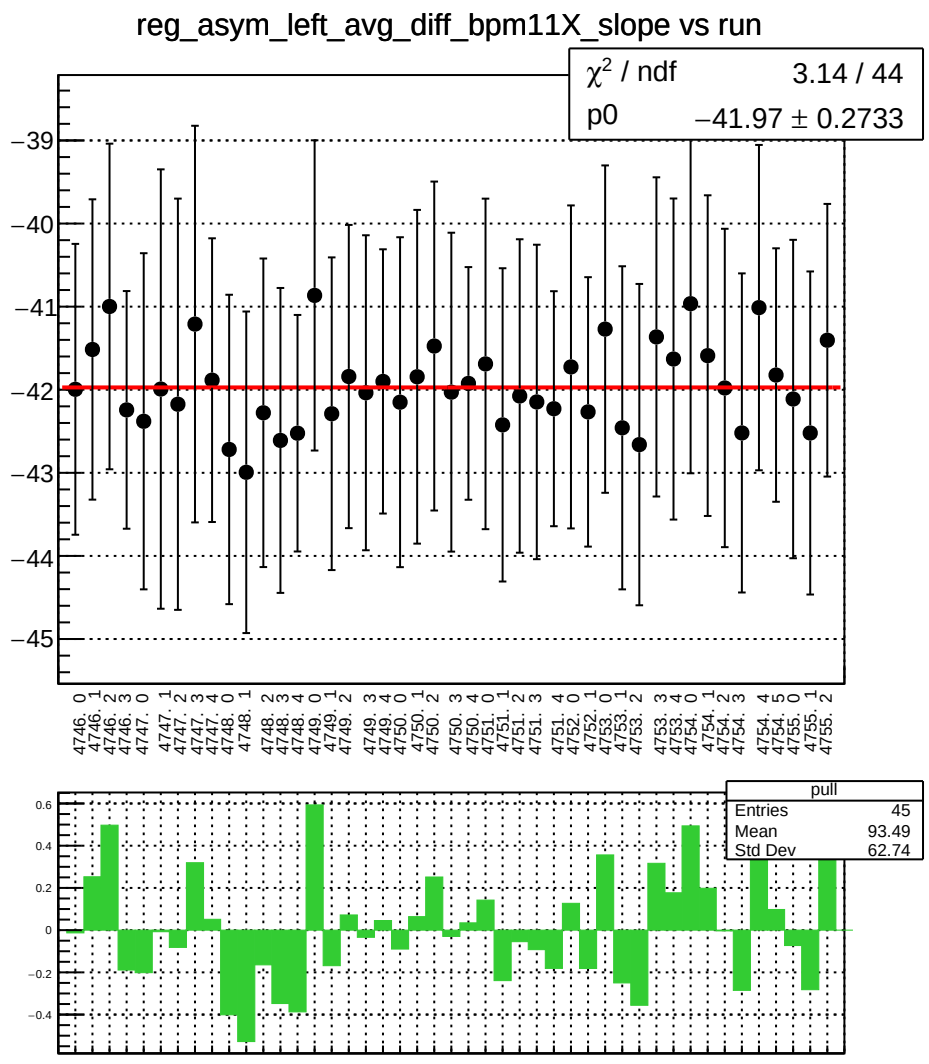

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 19.43 / 44
p0 33.78 ± 0.8799
pull
Entries 45
Mean −14.82
Std Dev 27.55

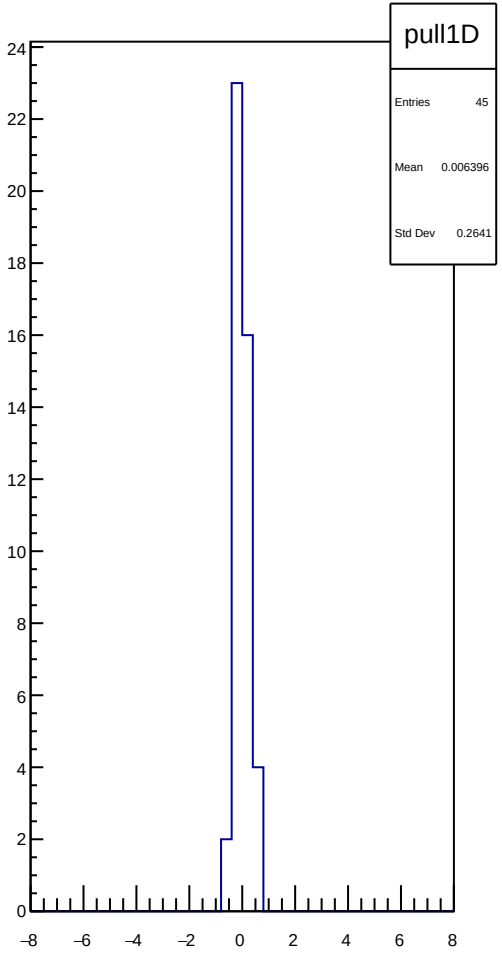

pull1D
Entries 45
Mean −0.0361
Std Dev 0.6561

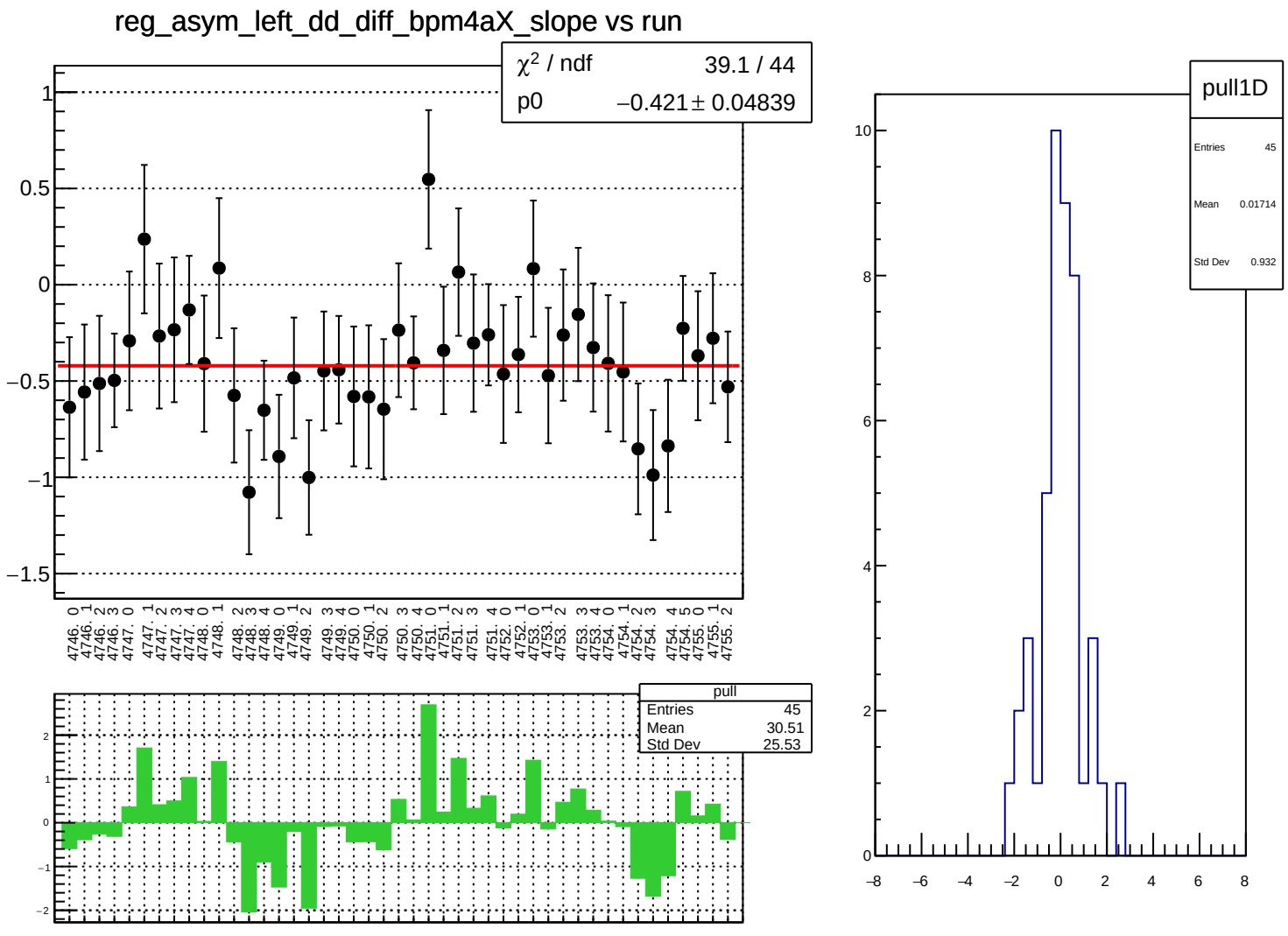

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.398 / 44
p0 −11.15 ± 1.099
pull
Entries 45
Mean −551.1
Std Dev 569.4
pull1D
Entries 45
Mean 0.003117
Std Dev 0.2748

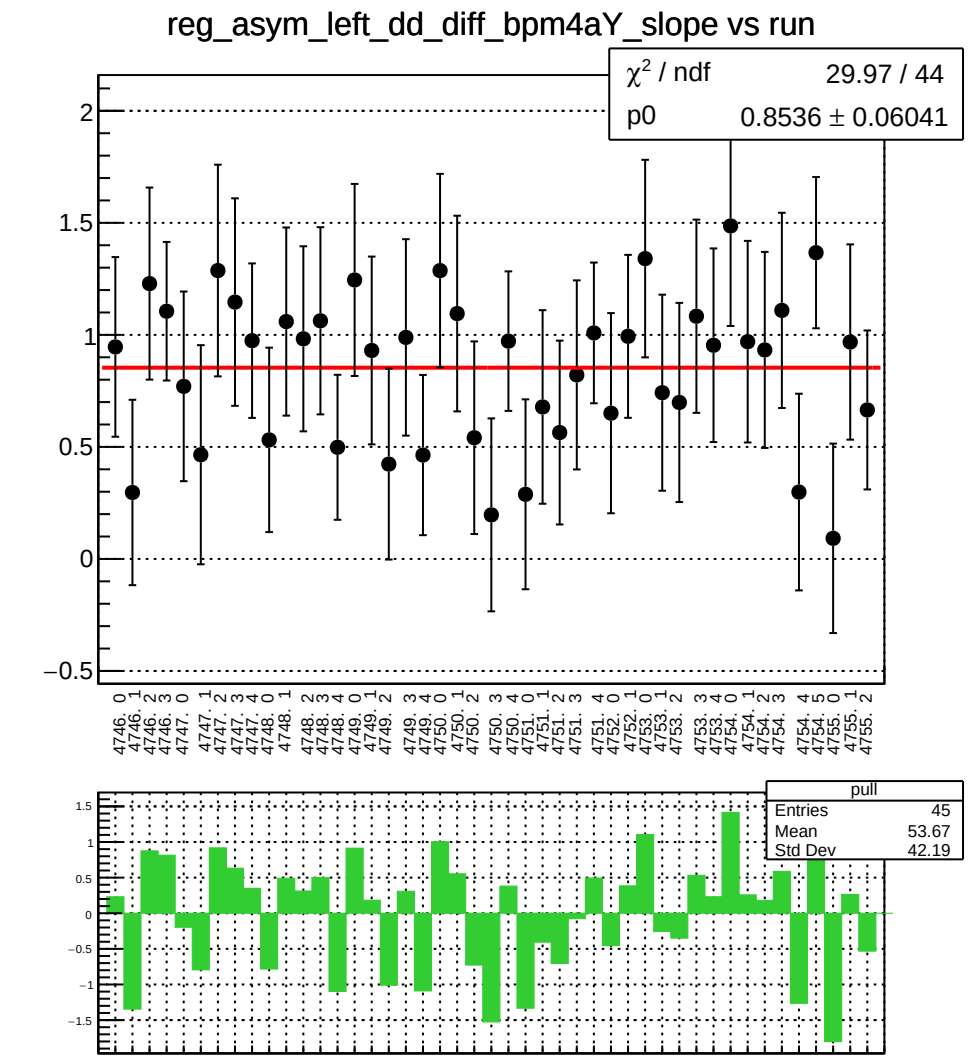

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.69 / 44
p0 −66.31 ± 0.1767
−63
−64
−65
−66
−67
−68
−69
−70
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −4676
Std Dev 4702
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.0005161
Std Dev 0.5713
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

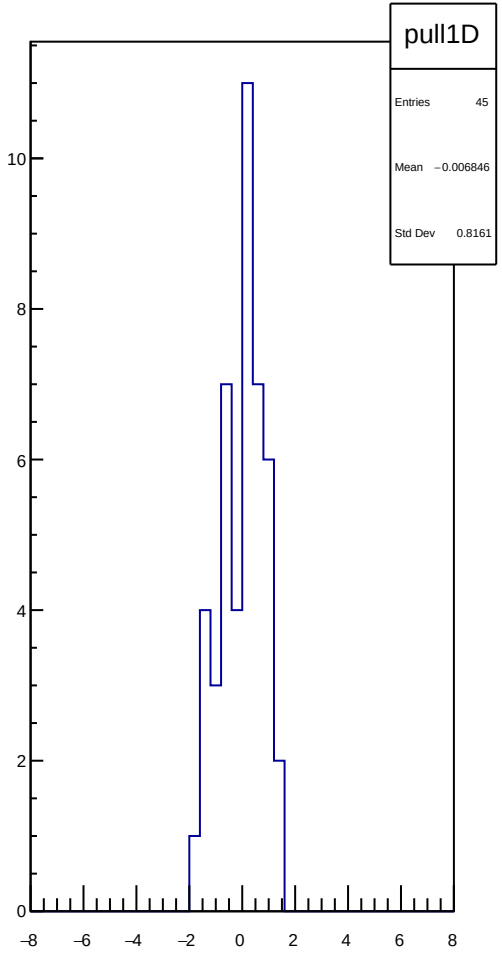

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.748 / 44
p0 10.58 ± 1.279
pull
Entries 45
Mean −209.7
Std Dev 223.3
pull1D
Entries 45
Mean −0.003975
Std Dev 0.2471

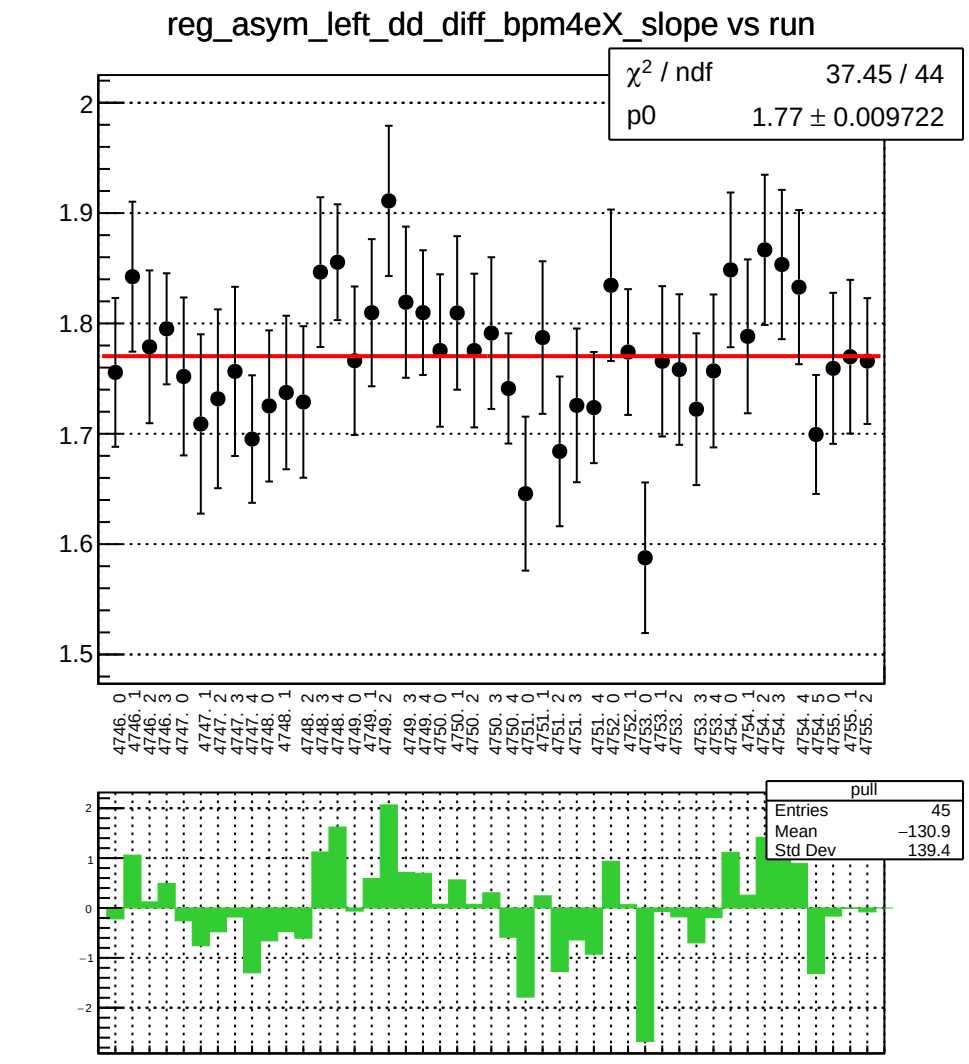

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 3.14 / 44
p0 −41.97 ± 0.2733
pull
Entries 45
Mean 93.49
Std Dev 62.74

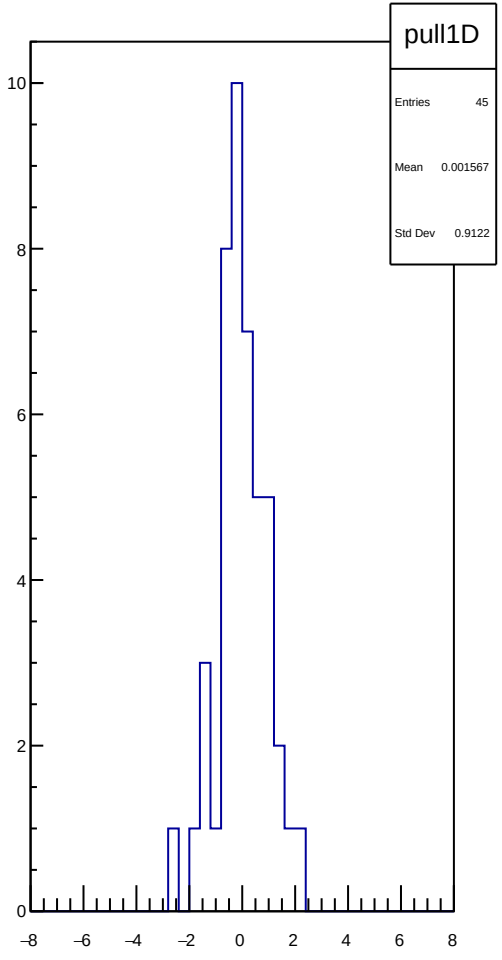

pull1D
Entries 45
Mean 0.006396
Std Dev 0.2641

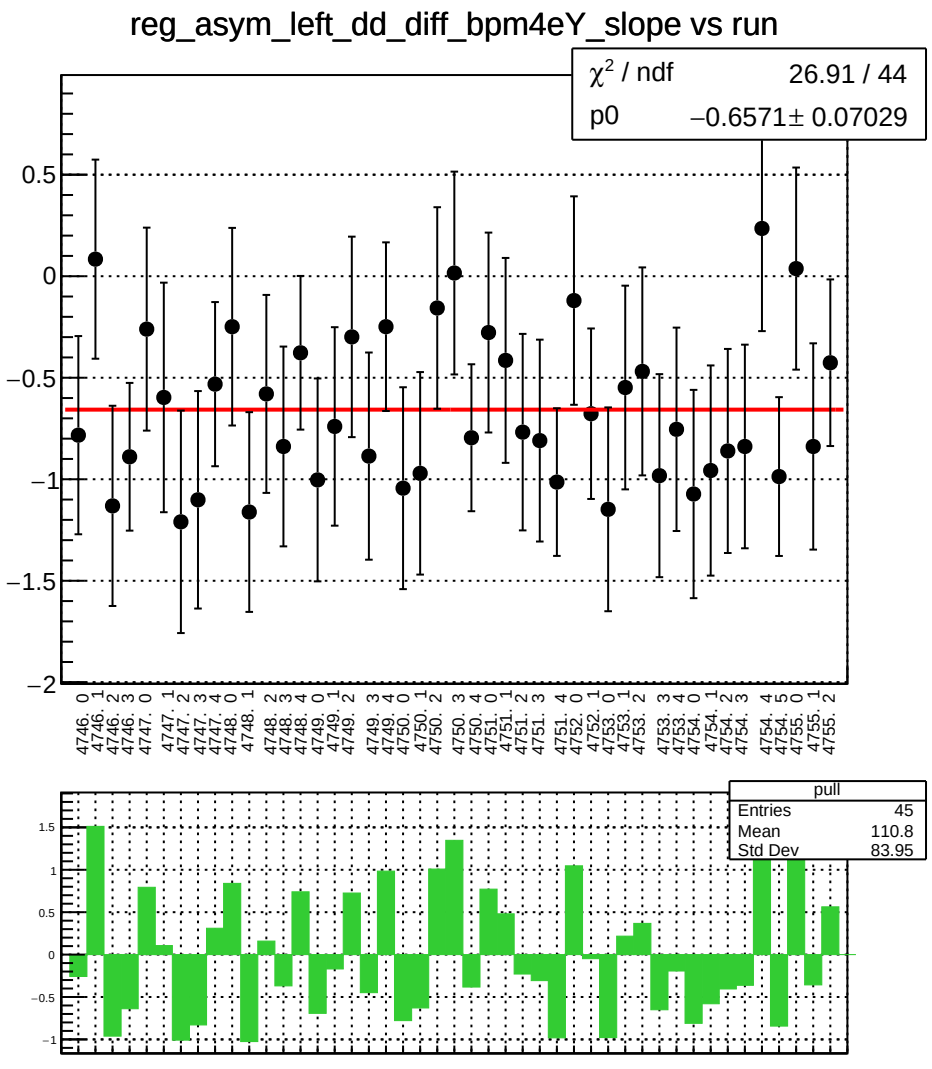

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 39.1 / 44
p0 −0.421 ± 0.04839
pull
Entries 45
Mean 30.51
Std Dev 25.53
pull1D
Entries 45
Mean 0.01714
Std Dev 0.932

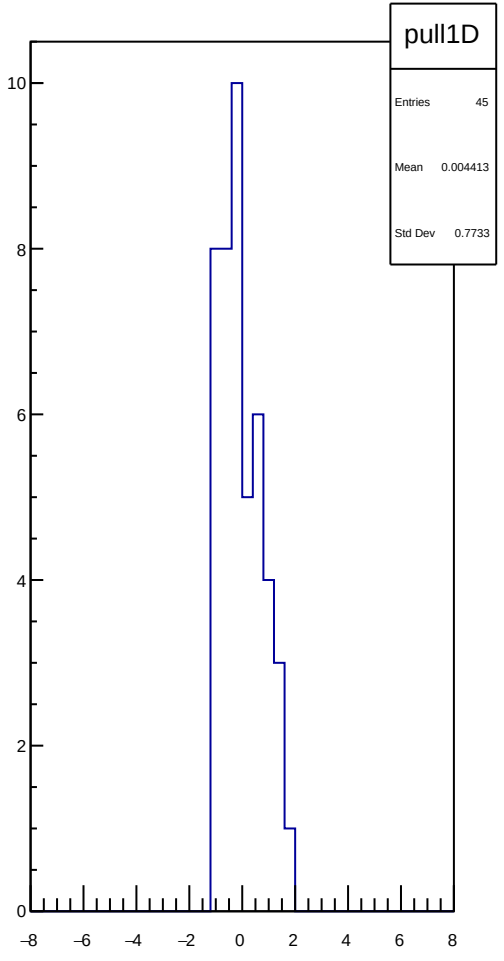

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.97 / 44
p0 0.8536 ± 0.06041
pull
Entries 45
Mean 53.67
Std Dev 42.19

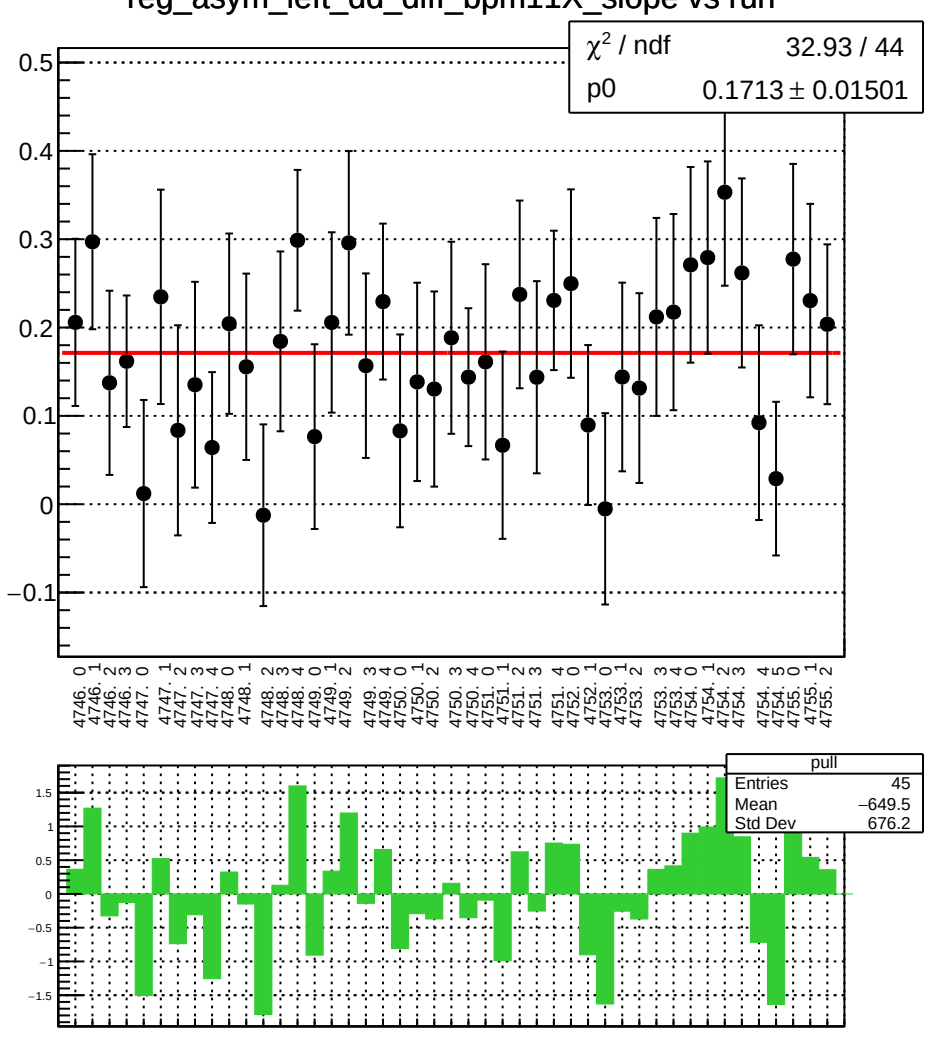

pull1D
Entries 45
Mean −0.006846
Std Dev 0.8161

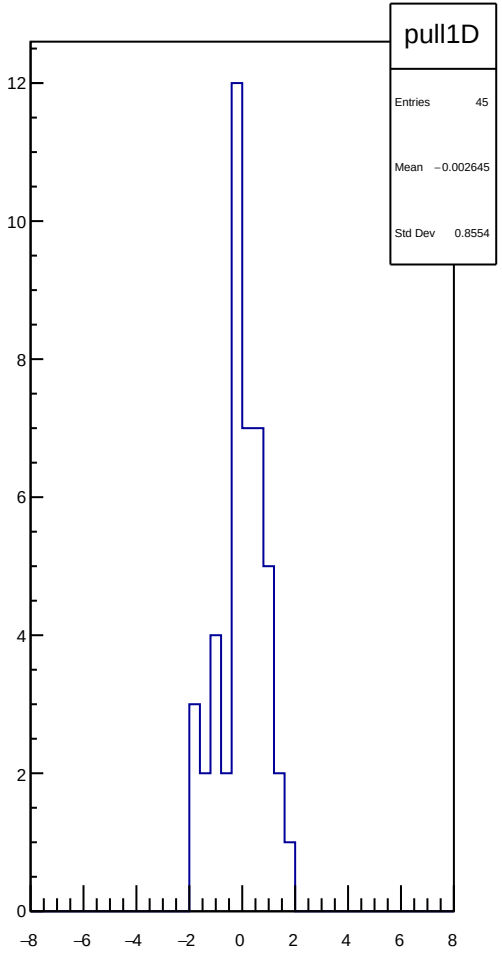

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 37.45 / 44
p0 1.77 ± 0.009722
pull
Entries 45
Mean −130.9
Std Dev 139.4

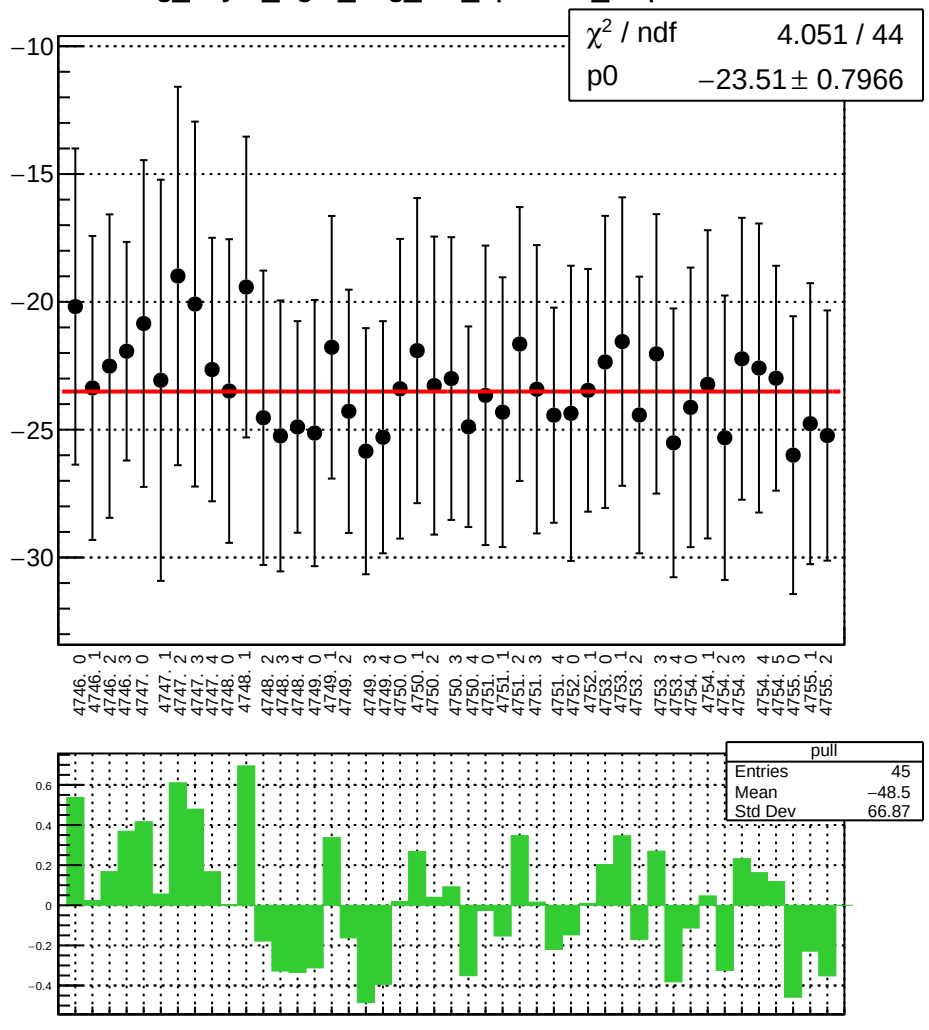

pull1D
Entries 45
Mean 0.001567
Std Dev 0.9122

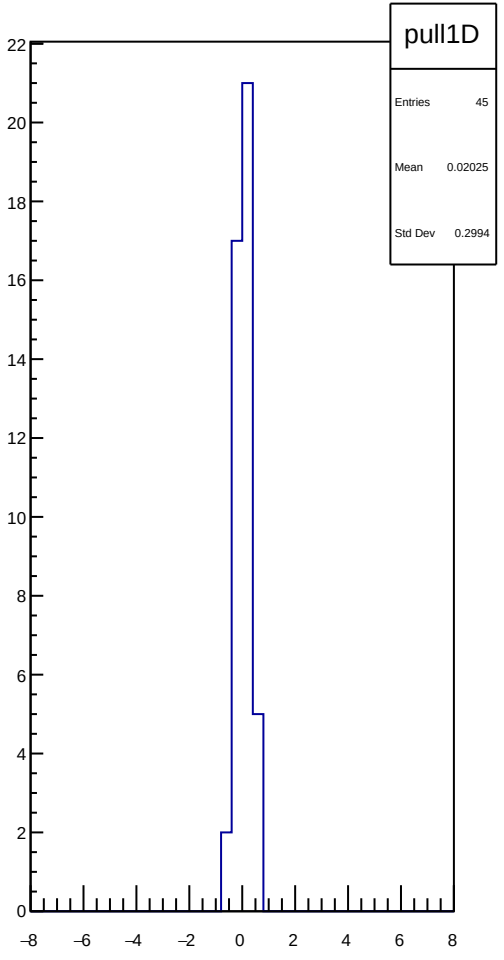

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.91 / 44
p0 −0.6571± 0.07029
pull
Entries 45
Mean 110.8
Std Dev 83.95

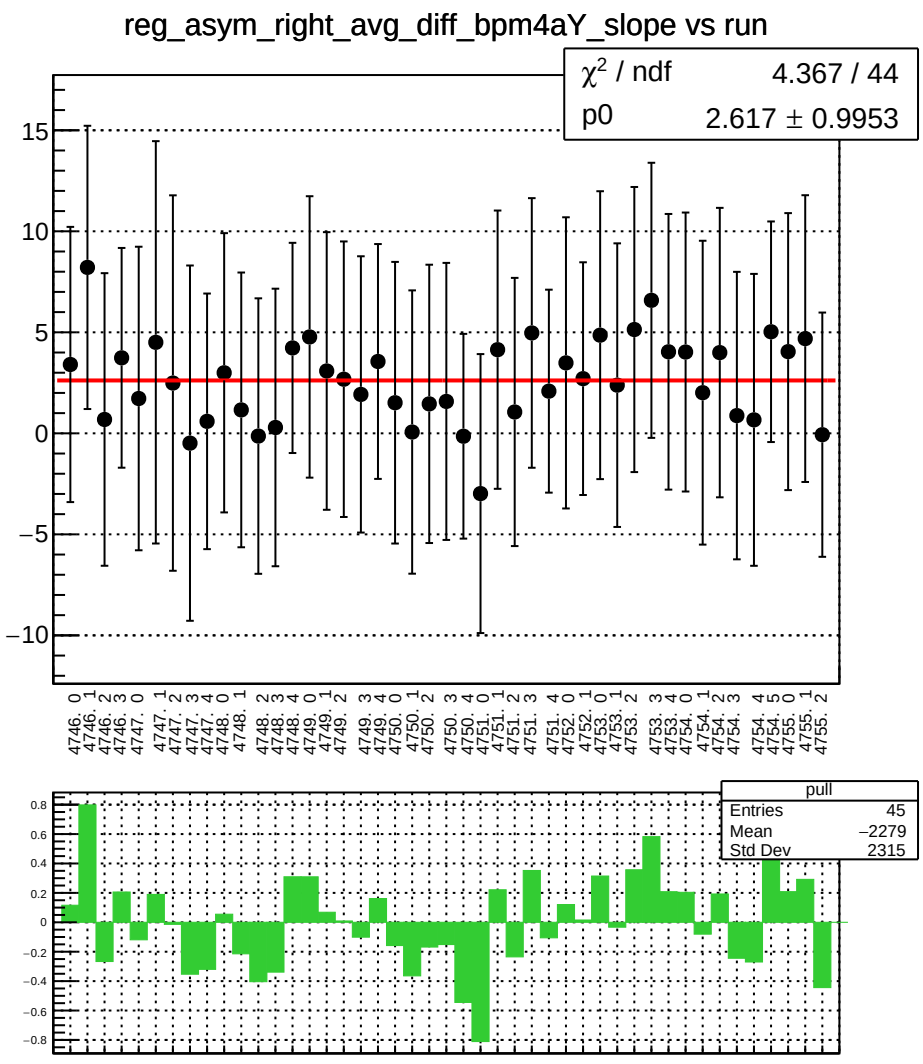

pull1D
Entries 45
Mean 0.004413
Std Dev 0.7733

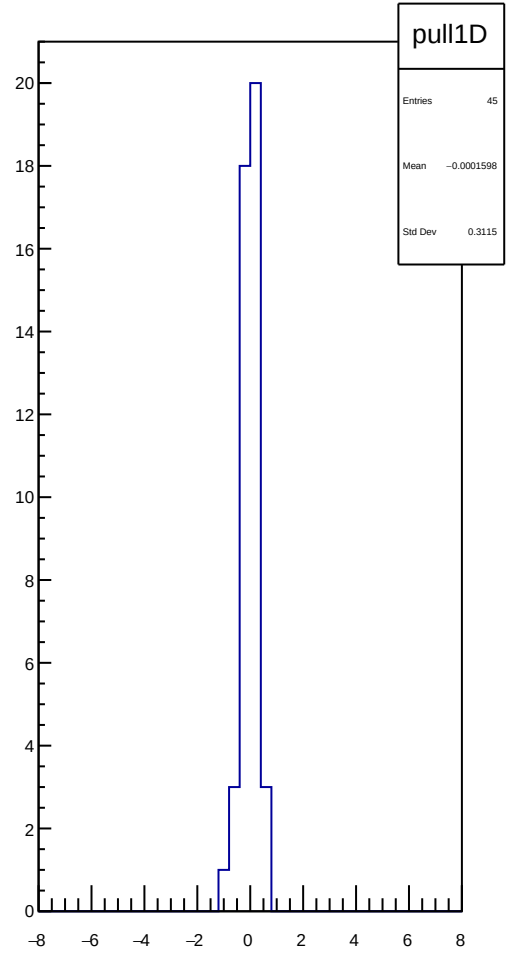

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 32.93 / 44
p0 0.1713 ± 0.01501
pull
Entries 45
Mean −649.5
Std Dev 676.2

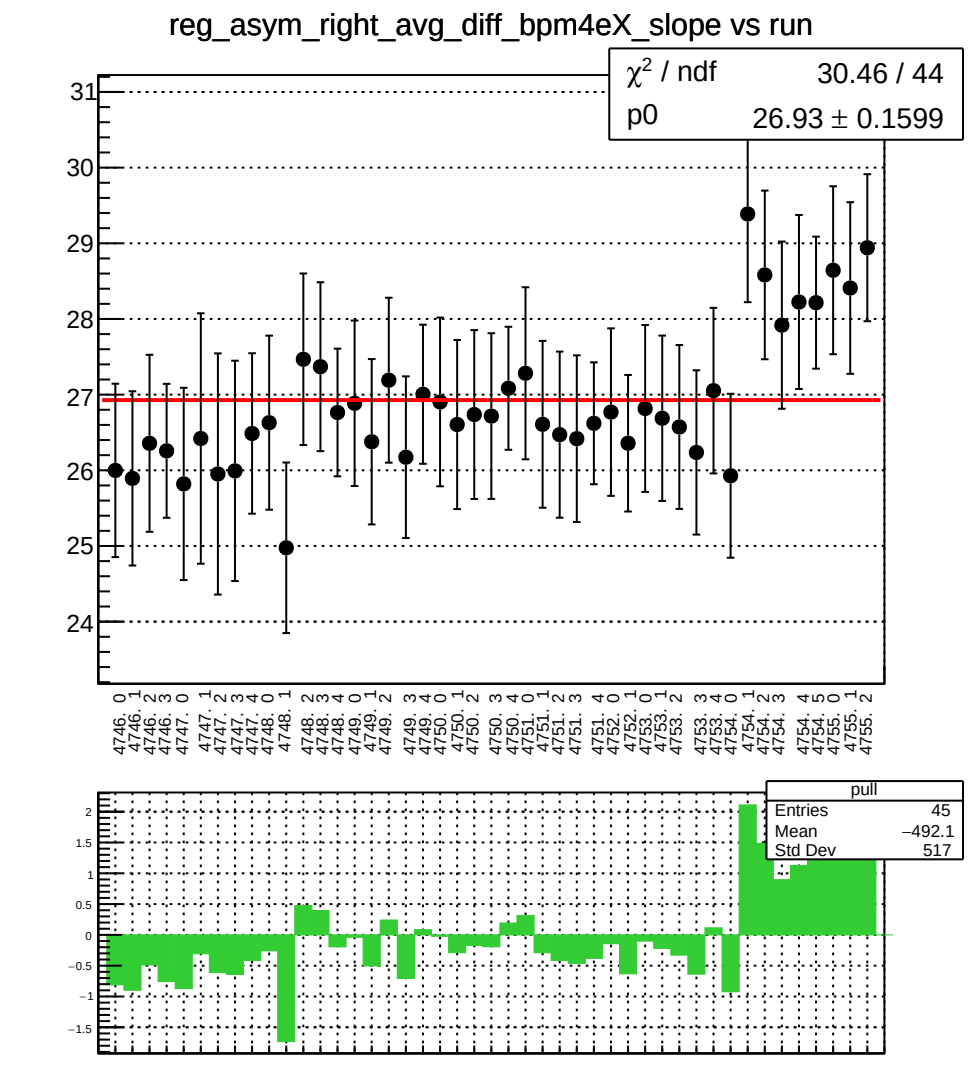

pull1D
Entries 45
Mean −0.002645
Std Dev 0.8554

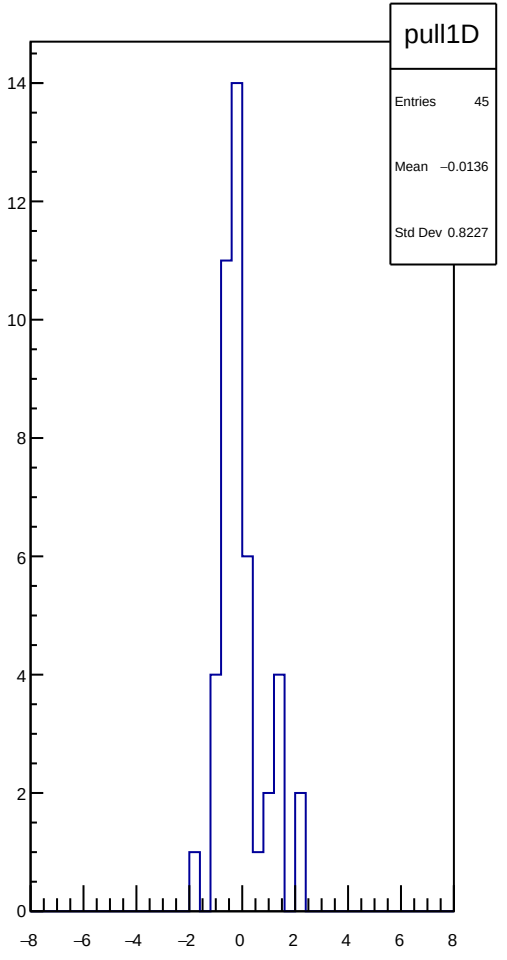

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 4.051 / 44
p0 −23.51 ± 0.7966
pull
Entries 45
Mean −48.5
Std Dev 66.87

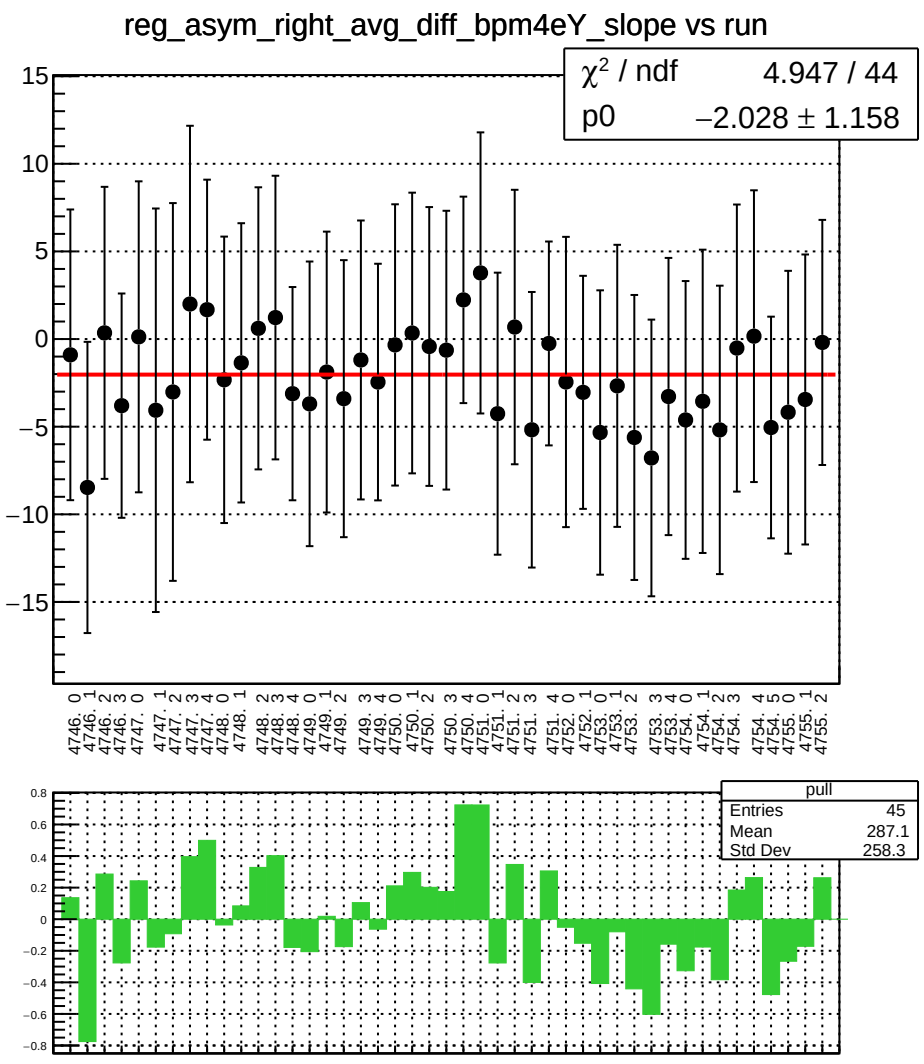

pull1D
Entries 45
Mean 0.02025
Std Dev 0.2994

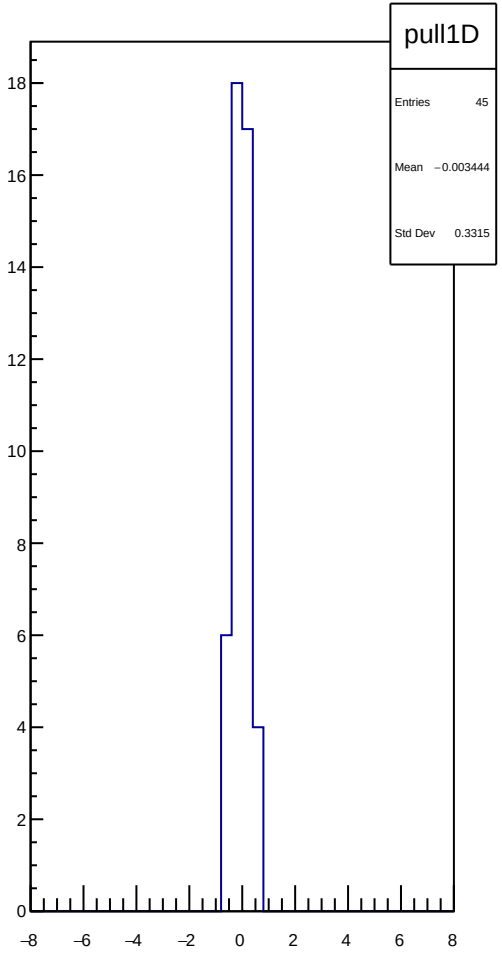

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.367 / 44
p0 2.617 ± 0.9953
pull
Entries 45
Mean −2279
Std Dev 2315

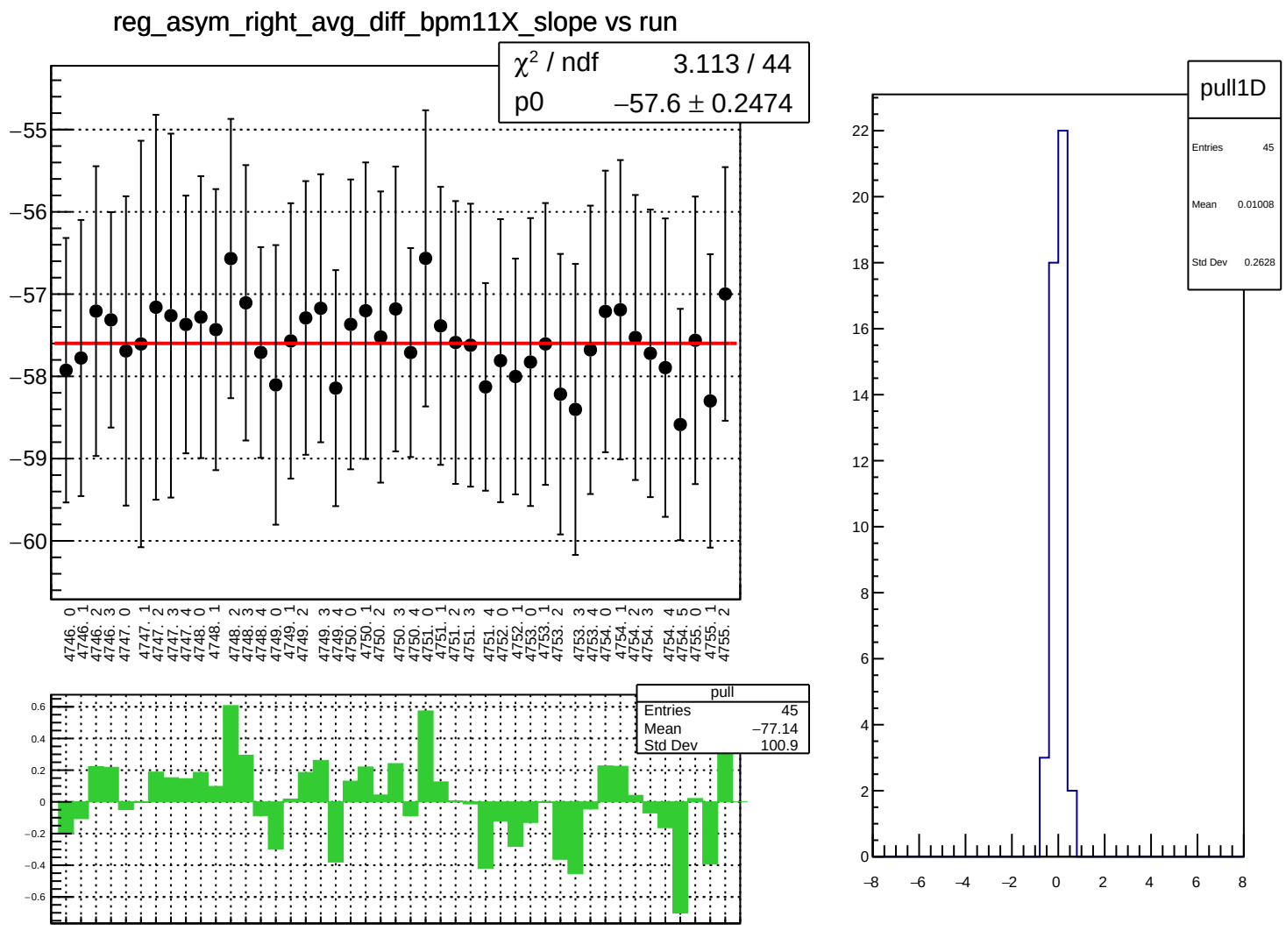

pull1D
Entries 45
Mean −0.0001598
Std Dev 0.3115

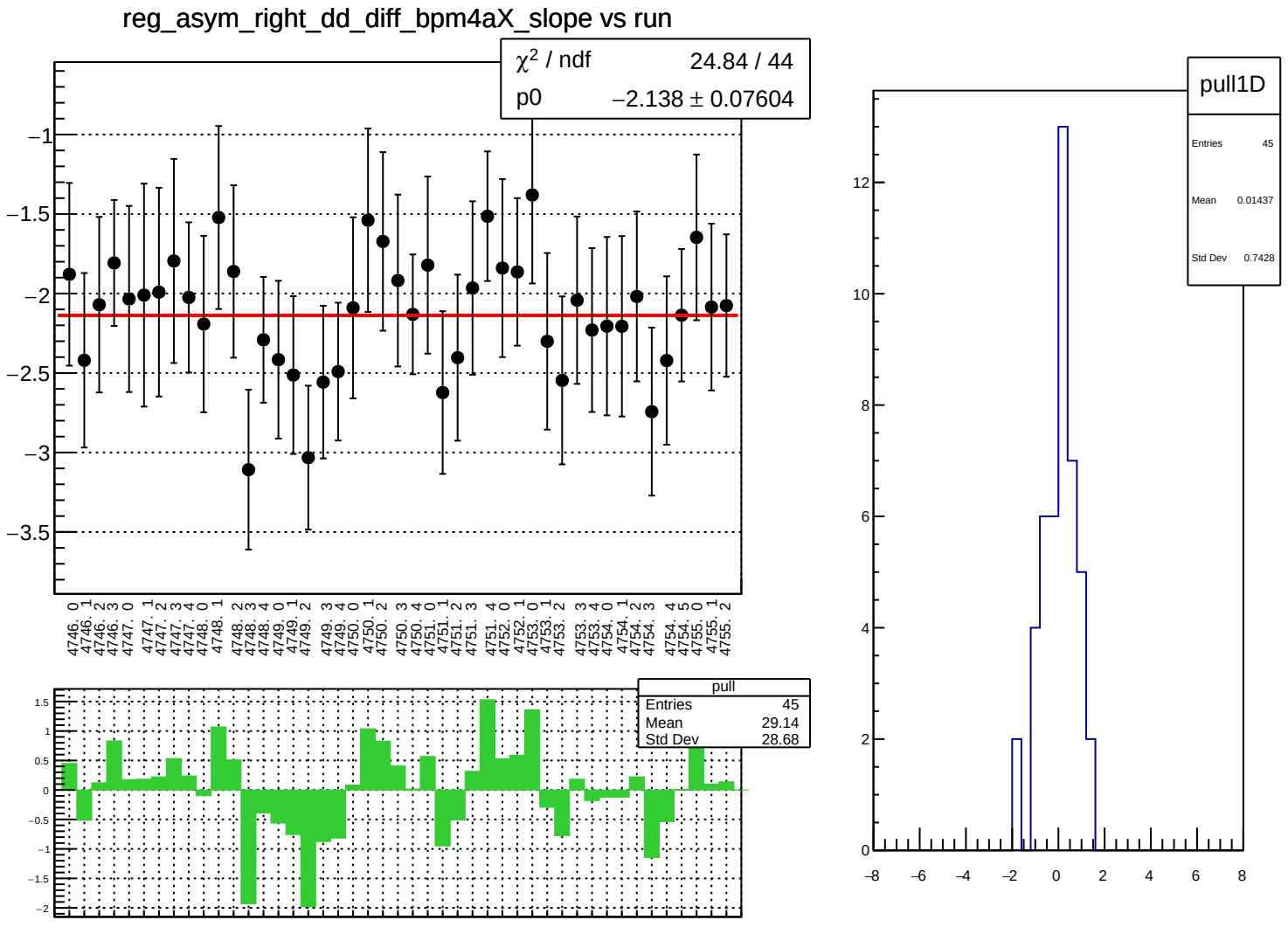

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.46 / 44
p0 26.93 ± 0.1599
pull
Entries 45
Mean −492.1
Std Dev 517

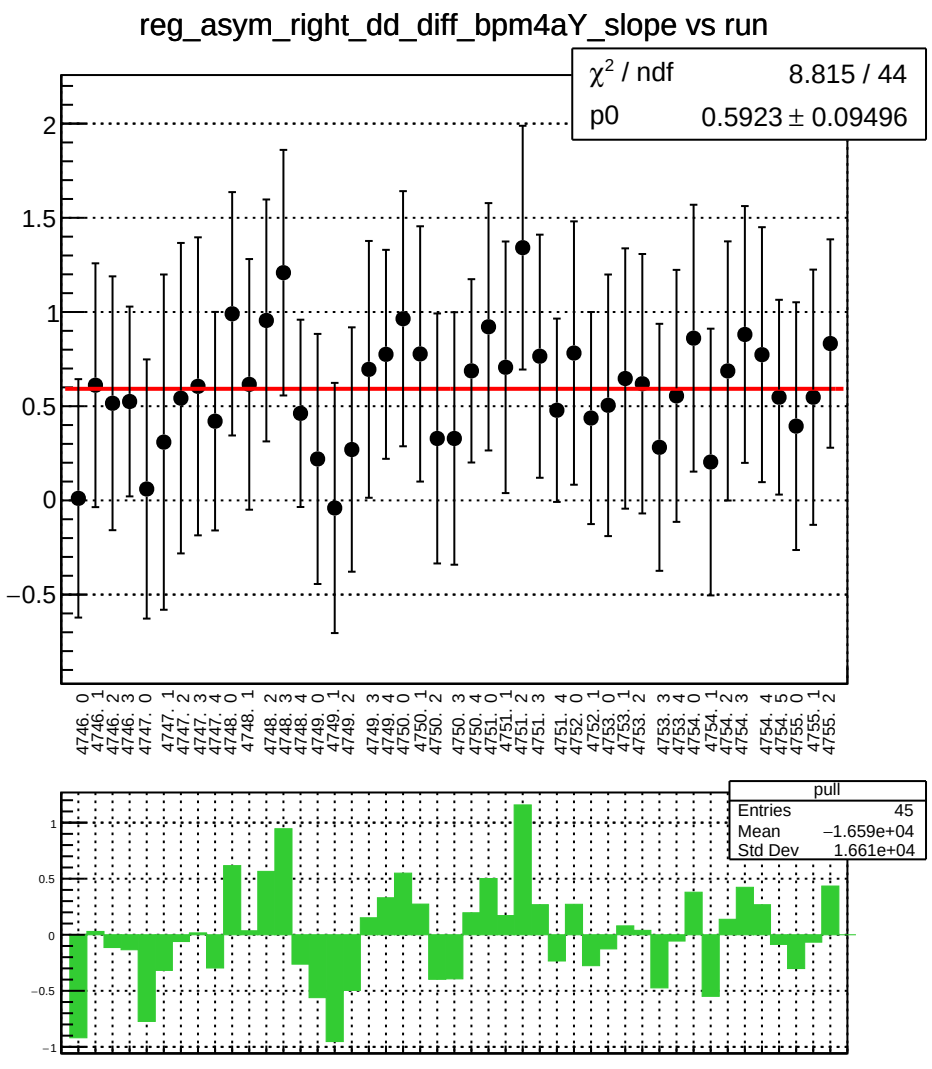

pull1D
Entries 45
Mean −0.0136
Std Dev 0.8227

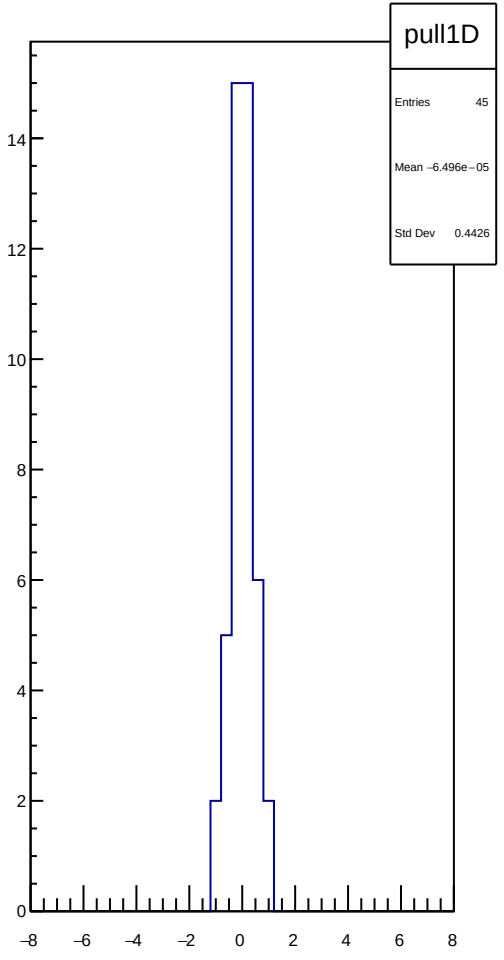

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.947 / 44
p0 −2.028 ± 1.158
pull
Entries 45
Mean 287.1
Std Dev 258.3

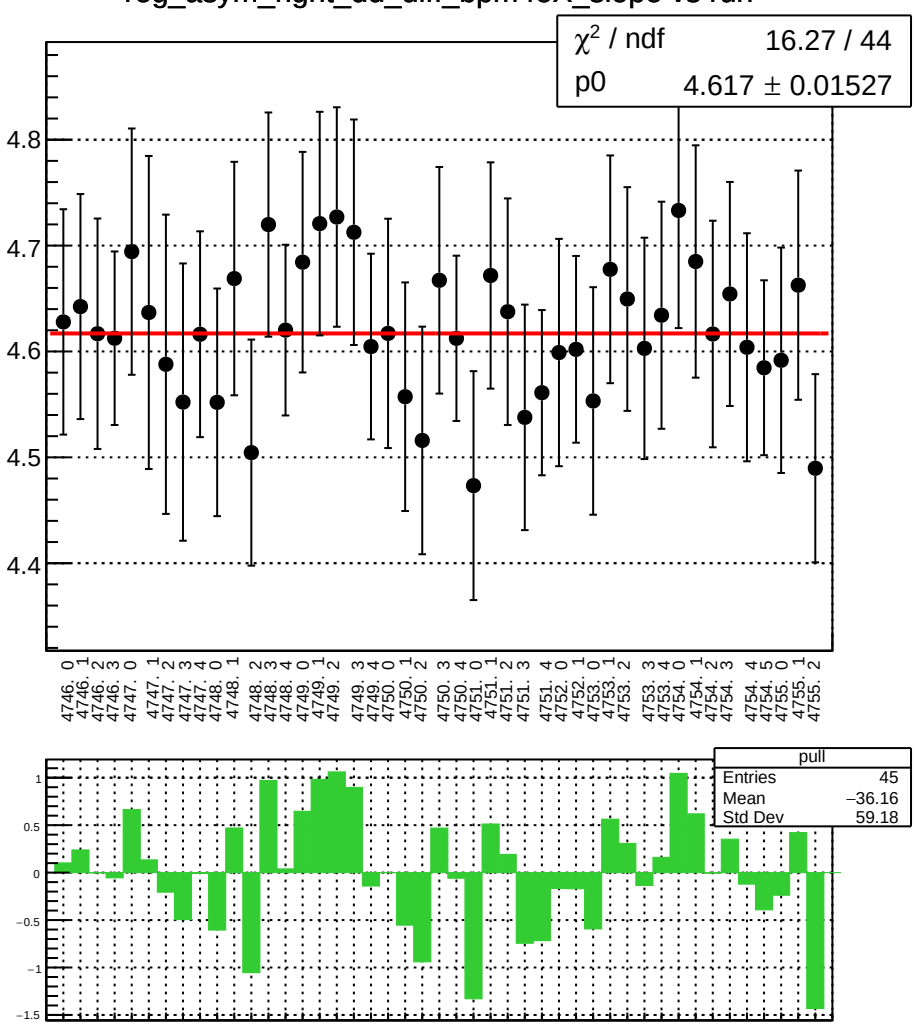

pull1D
Entries 45
Mean −0.003444
Std Dev 0.3315

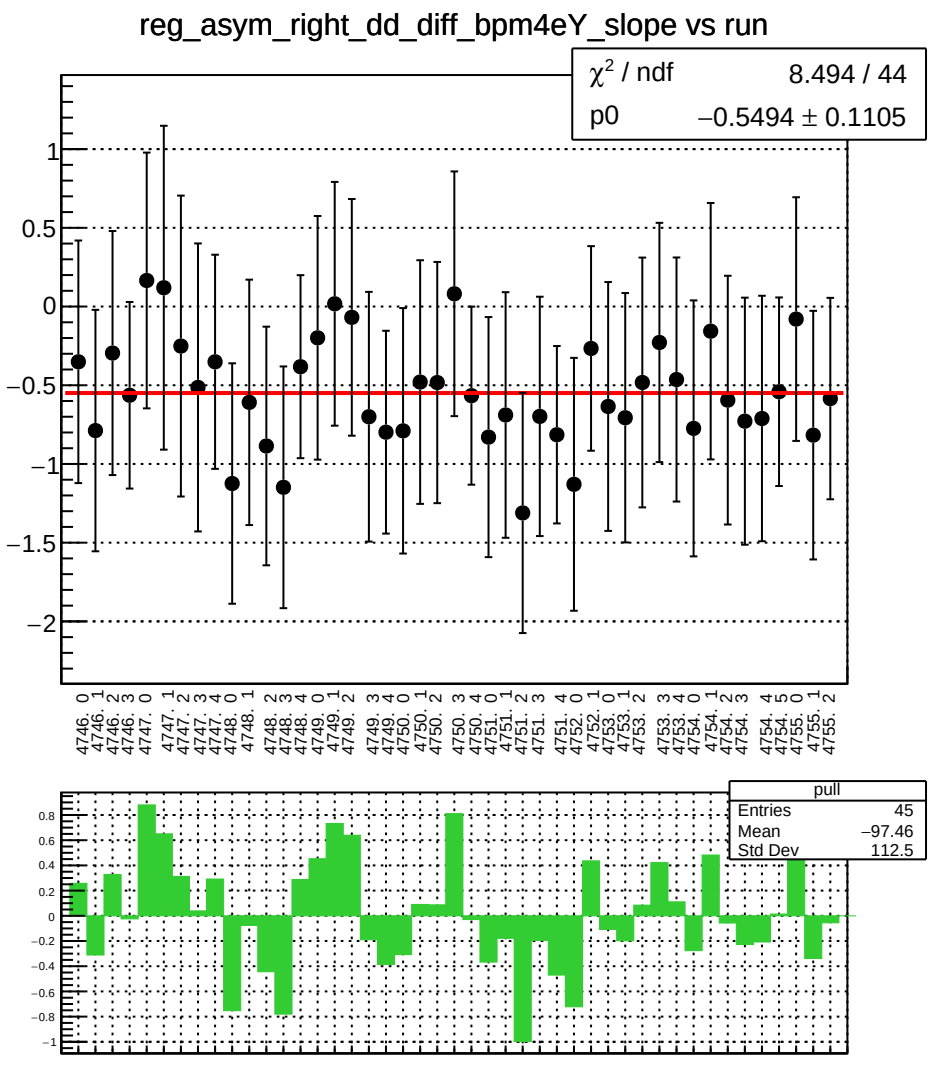

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 3.113 / 44
p0 −57.6 ± 0.2474
−55
−56
−57
−58
−59
−60
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −77.14
Std Dev 100.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean 0.01008
Std Dev 0.2628
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

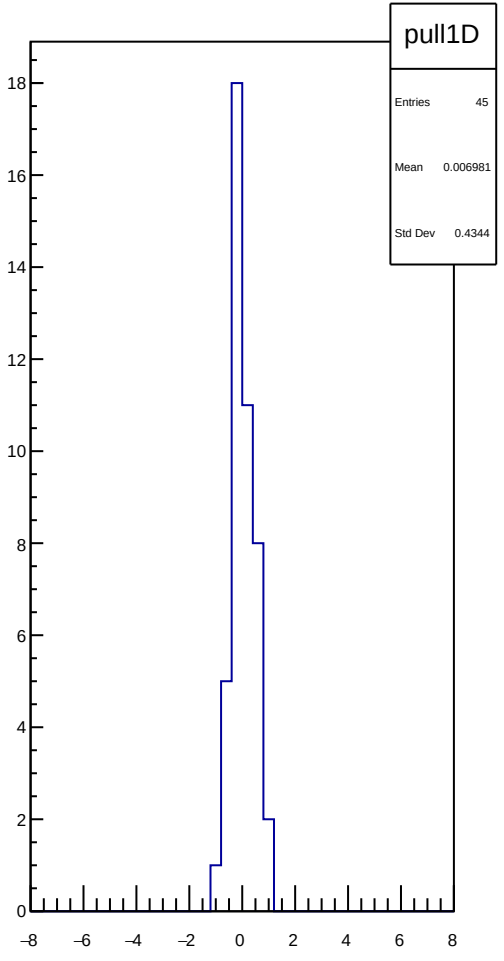

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 24.84 / 44
p0 −2.138 ± 0.07604
pull
Entries 45
Mean 29.14
Std Dev 28.68
pull1D
Entries 45
Mean 0.01437
Std Dev 0.7428

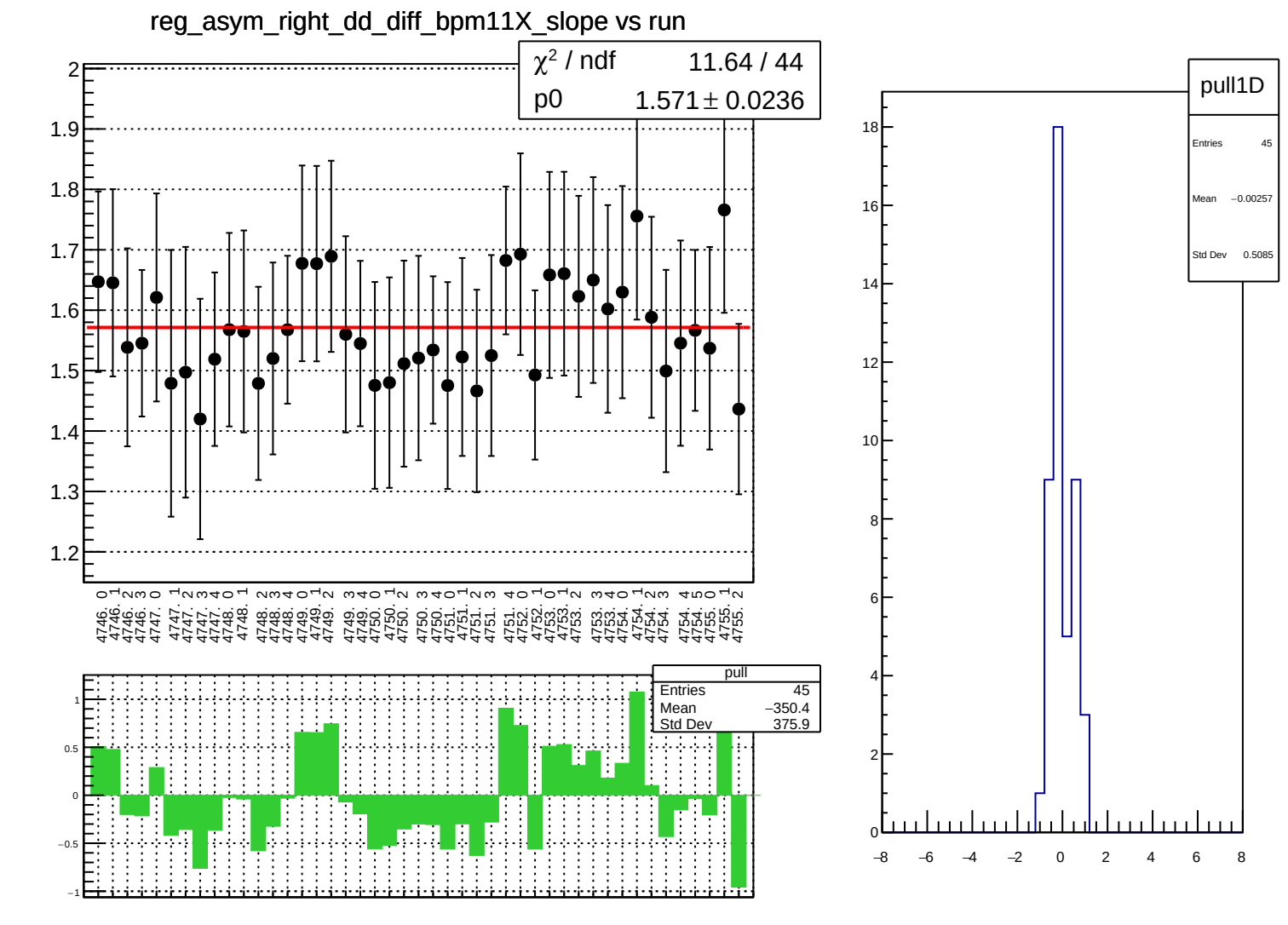

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.815 / 44
p0 0.5923 ± 0.09496
pull
Entries 45
Mean −1.659e+04
Std Dev 1.661e+04


pull1D
Entries 45
Mean −6.496e−05
Std Dev 0.4426

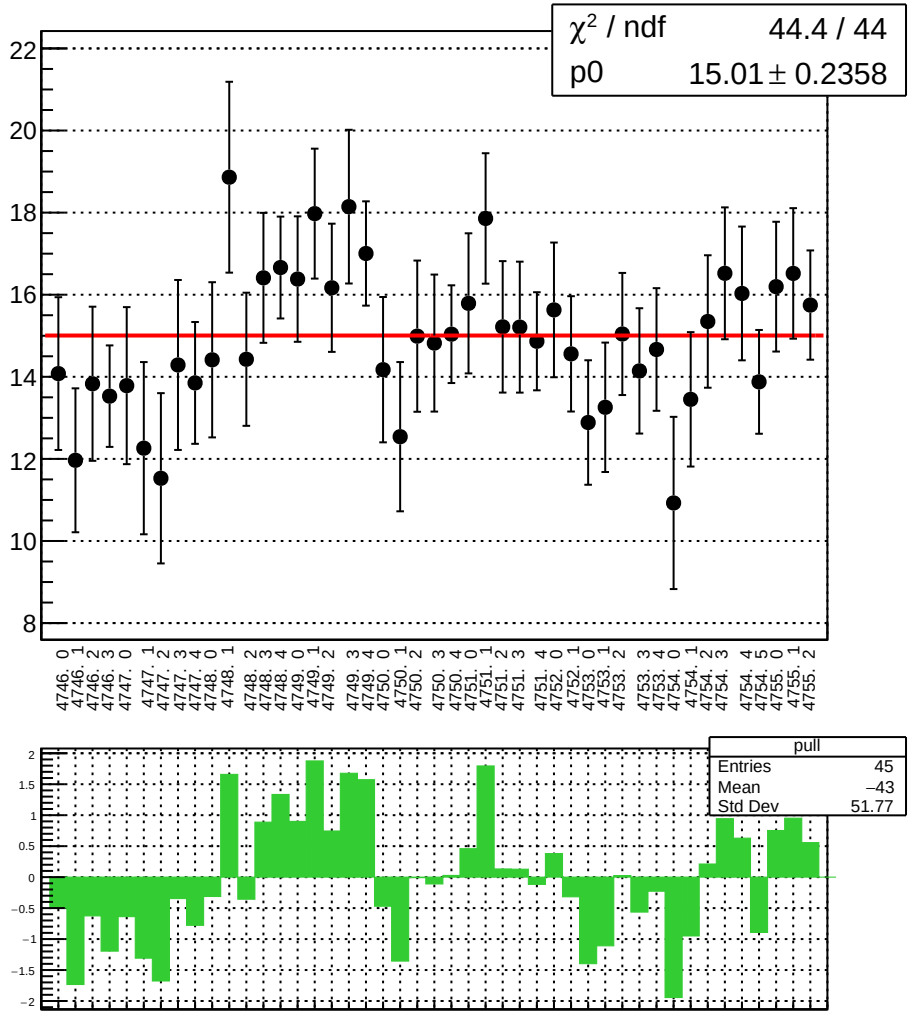

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.27 / 44
p0 4.617 ± 0.01527
4.8
4.7
4.6
4.5
4.4
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −36.16
Std Dev 59.18
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01521
Std Dev 0.601
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

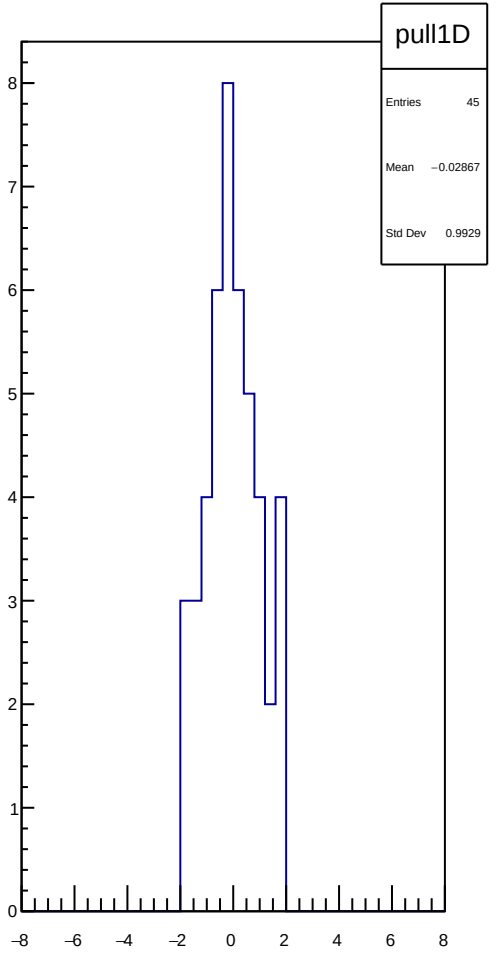

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.494 / 44
p0 −0.5494 ± 0.1105
pull
Entries 45
Mean −97.46
Std Dev 112.5

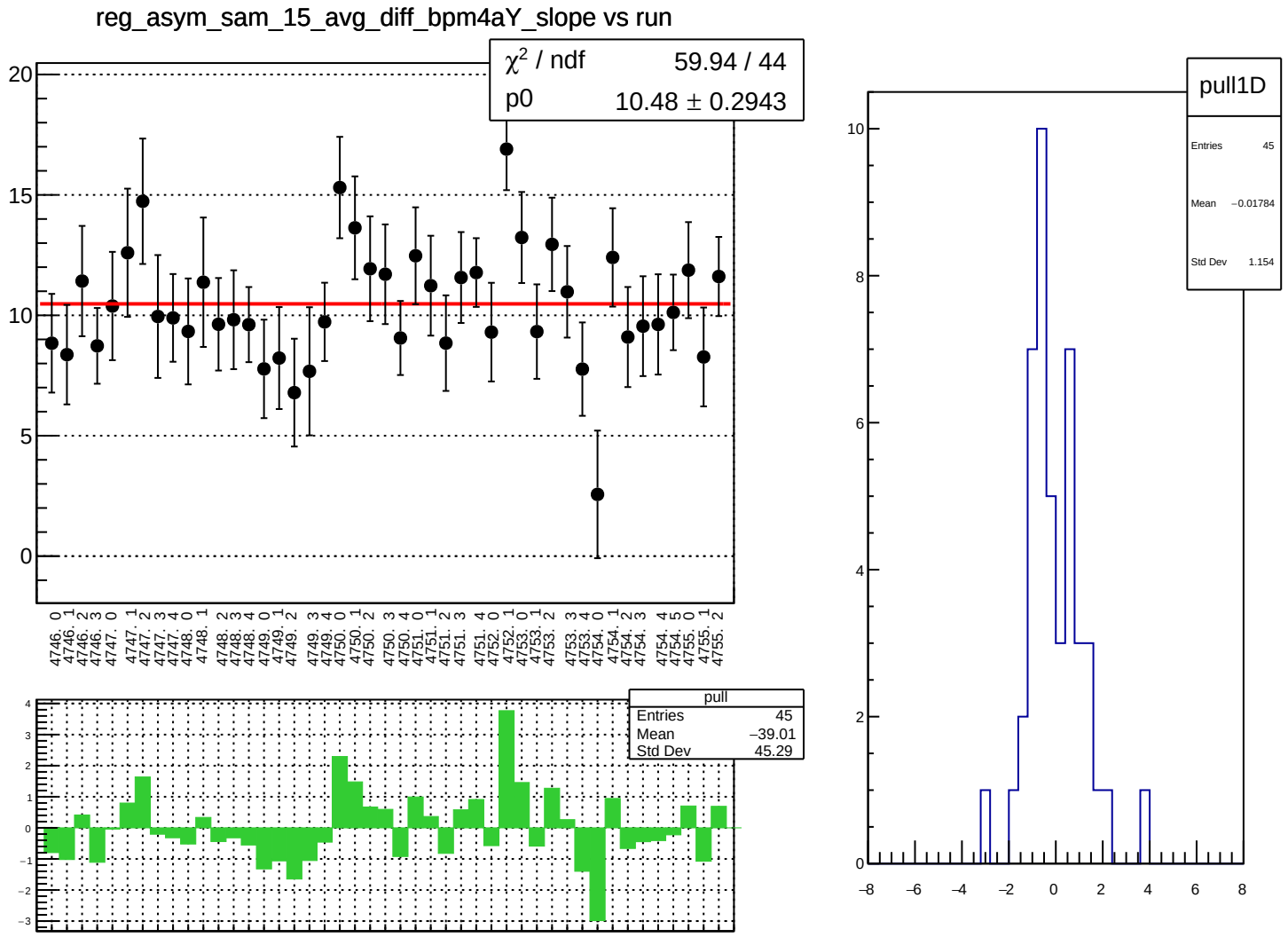

pull1D
Entries 45
Mean 0.006981
Std Dev 0.4344

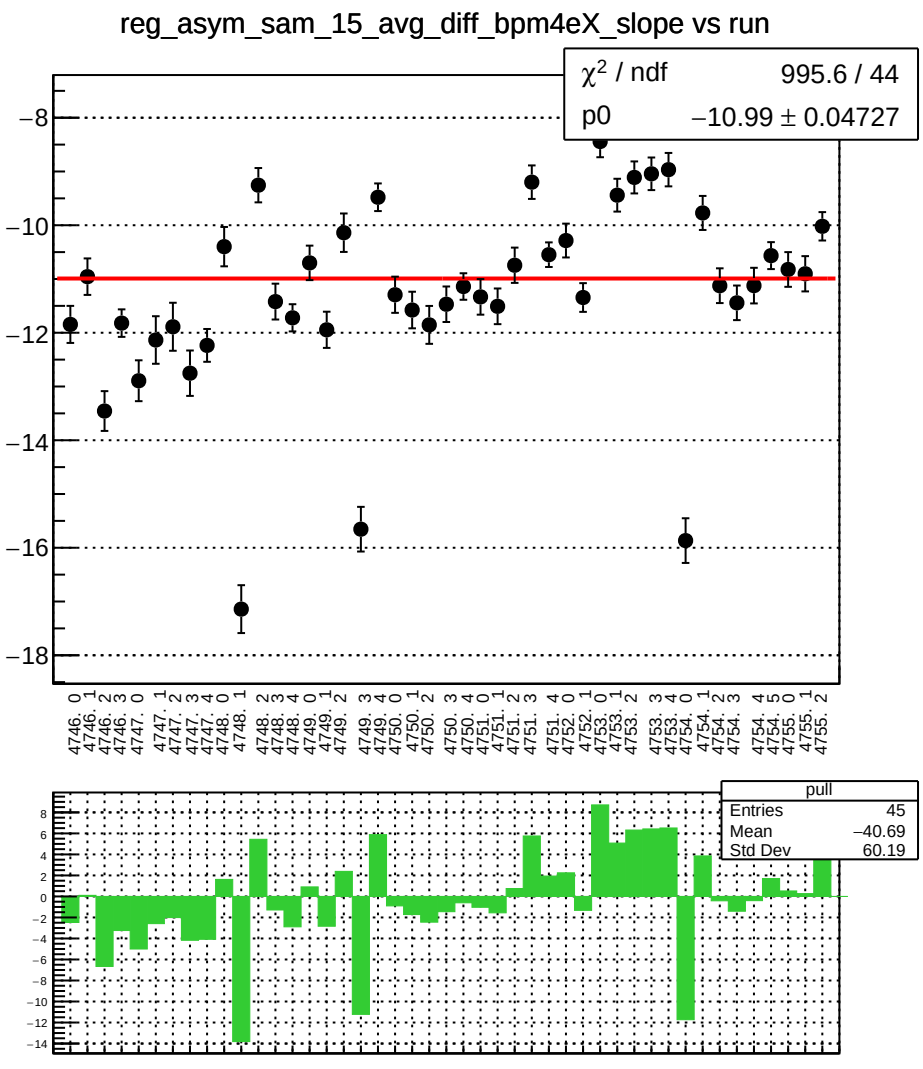

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 11.64 / 44
p0 1.571 ± 0.0236
pull
Entries 45
Mean −350.4
Std Dev 375.9
pull1D
Entries 45
Mean −0.00257
Std Dev 0.5085

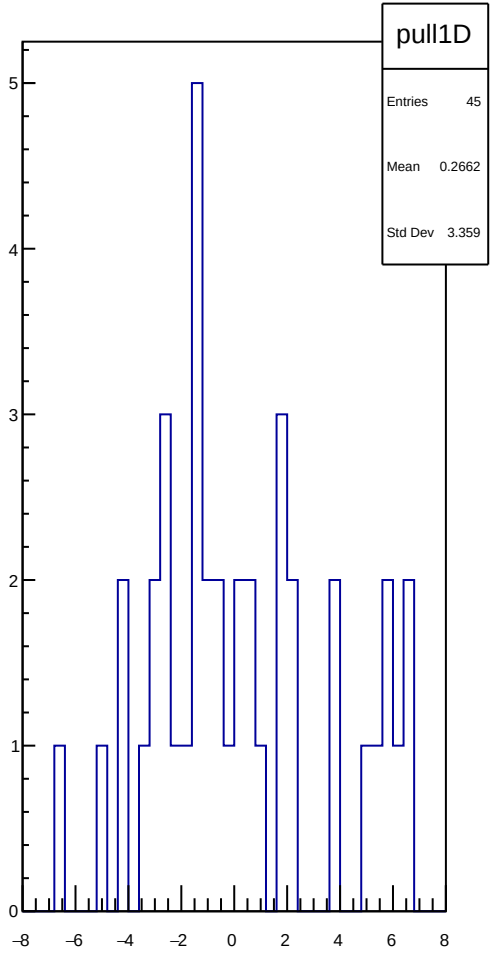
reg_asym_sam_15_avg_diff_bpm4aX_slope vs run

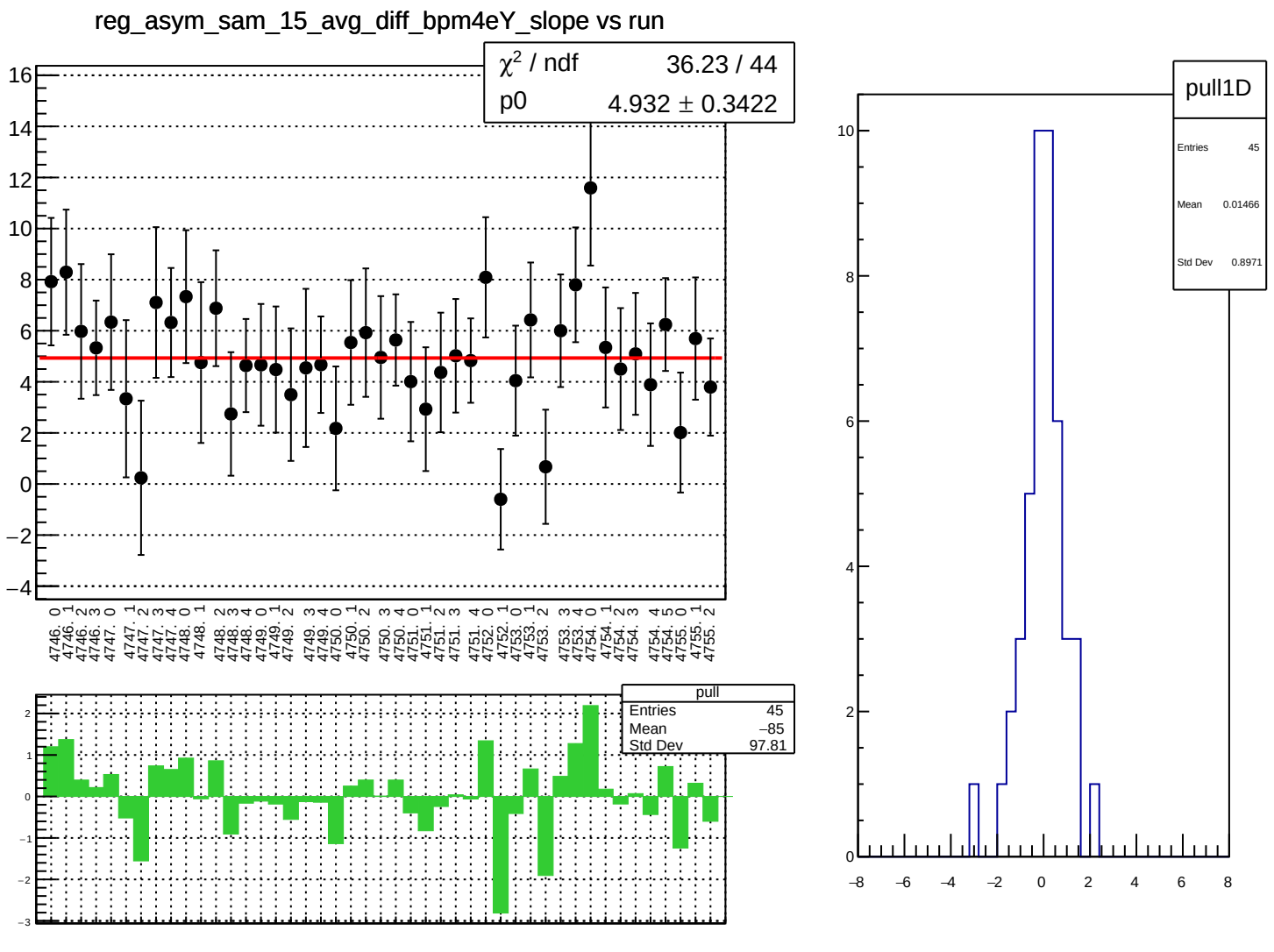


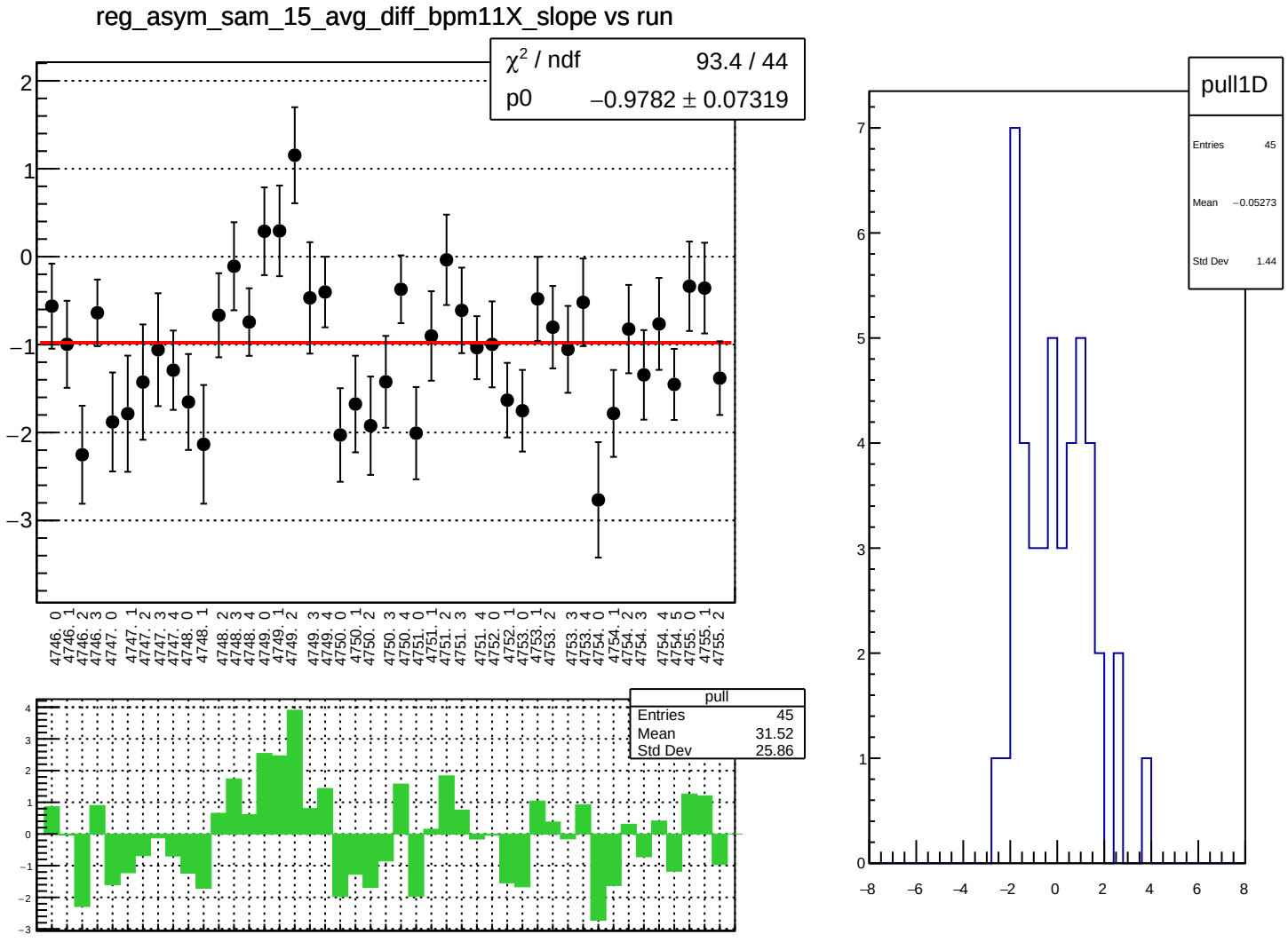


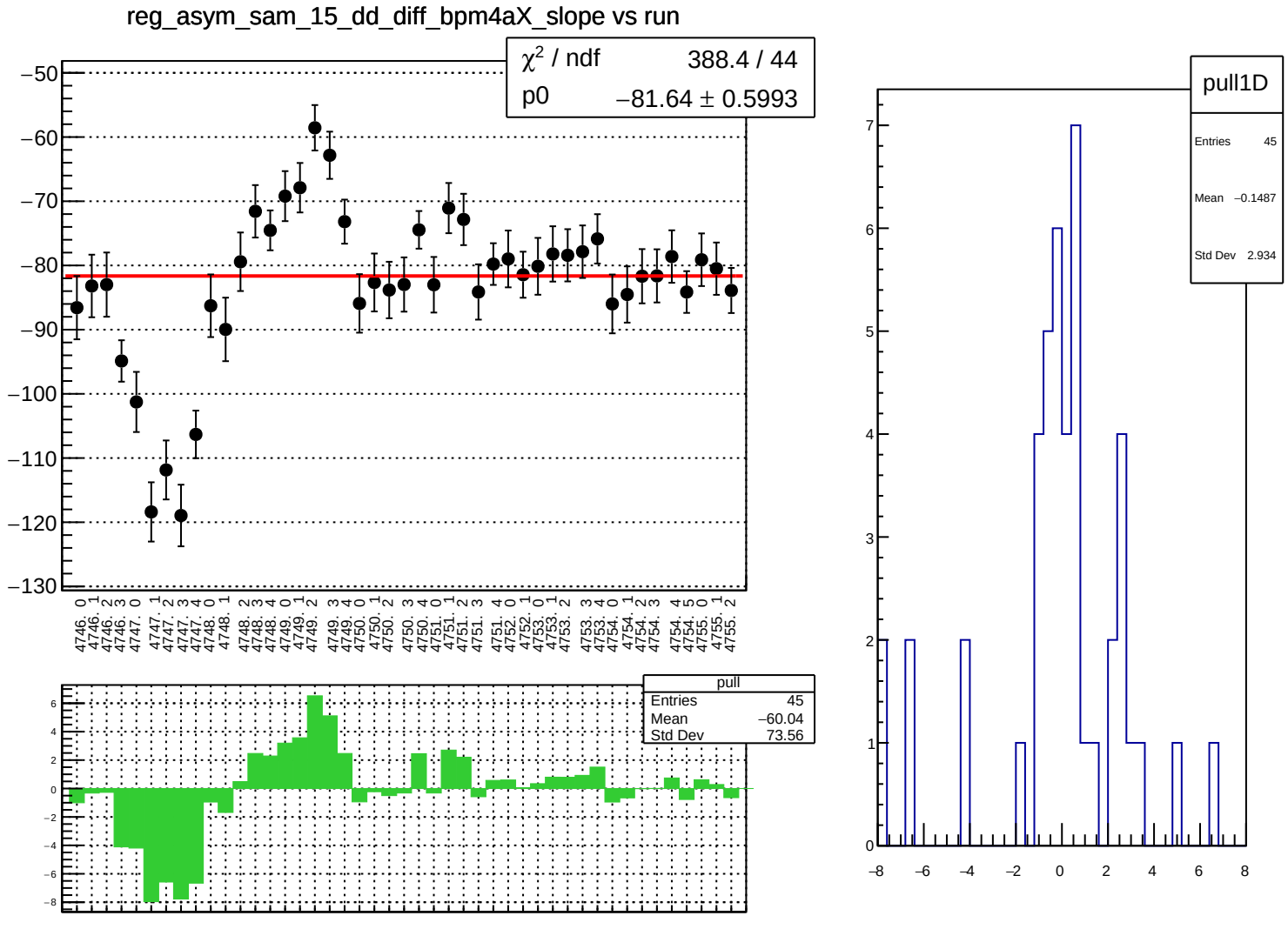

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 59.94 / 44
p0 10.48 ± 0.2943
pull
Entries 45
Mean −39.01
Std Dev 45.29
pull1D
Entries 45
Mean −0.01784
Std Dev 1.154

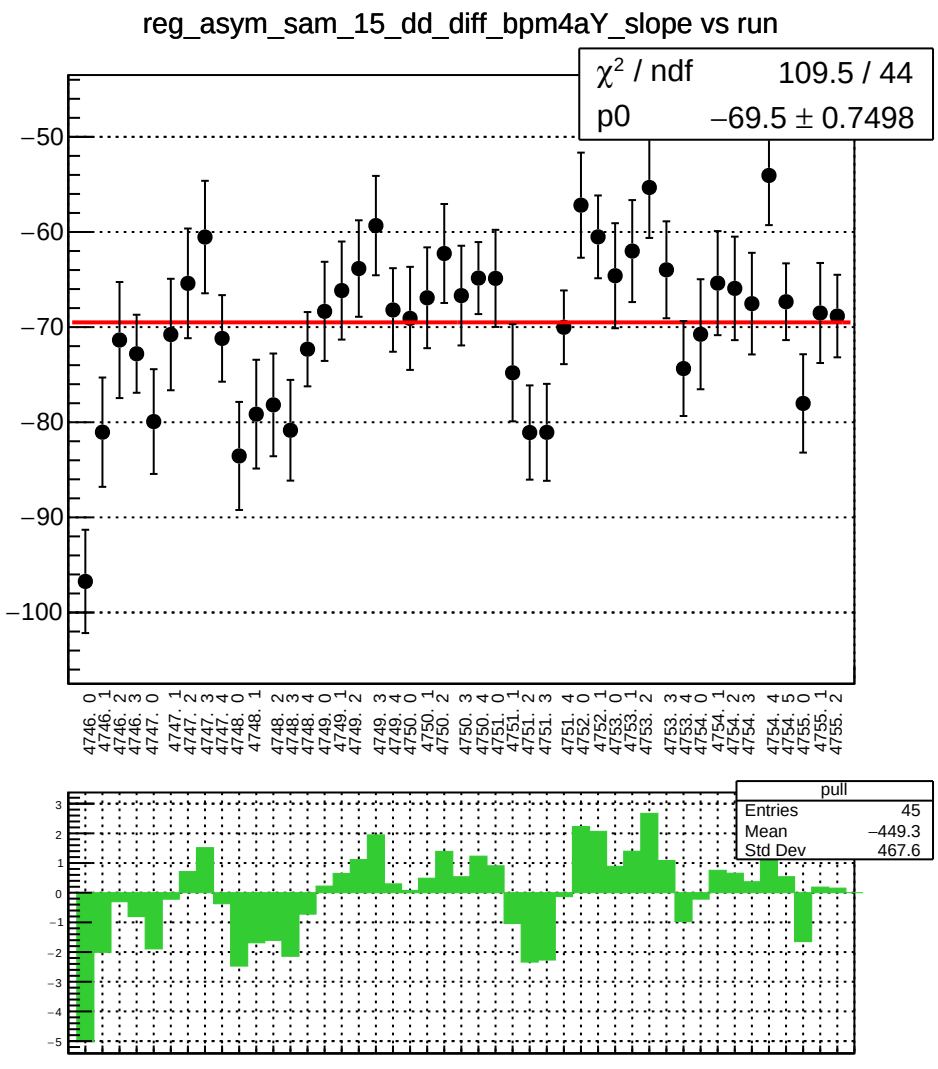

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 995.6 / 44
p0 −10.99 ± 0.04727
pull
Entries 45
Mean −40.69
Std Dev 60.19

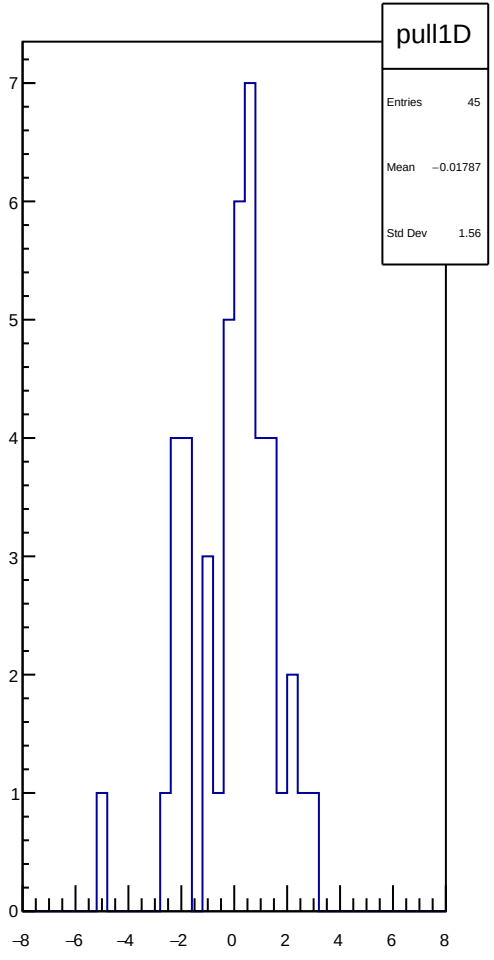

pull1D
Entries 45
Mean 0.2662
Std Dev 3.359

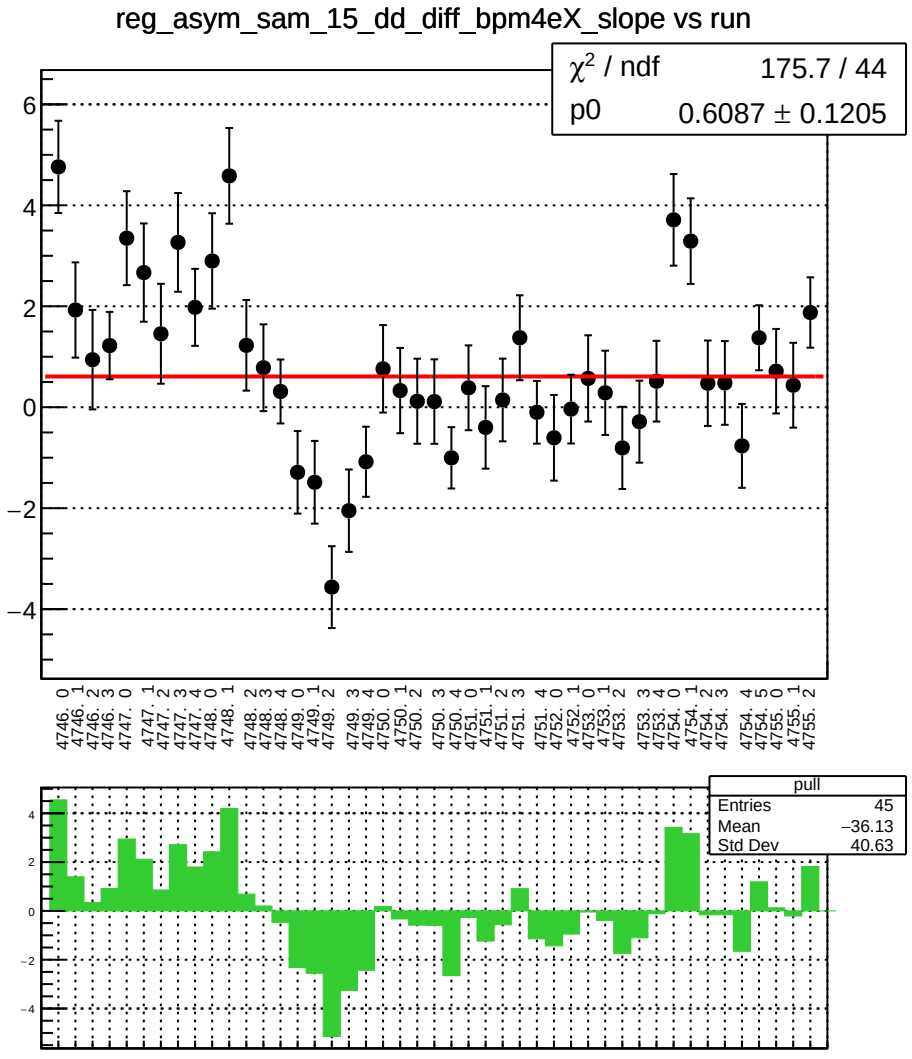

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.23 / 44
p0 4.932 ± 0.3422
pull
Entries 45
Mean −85
Std Dev 97.81
pull1D
Entries 45
Mean 0.01466
Std Dev 0.8971

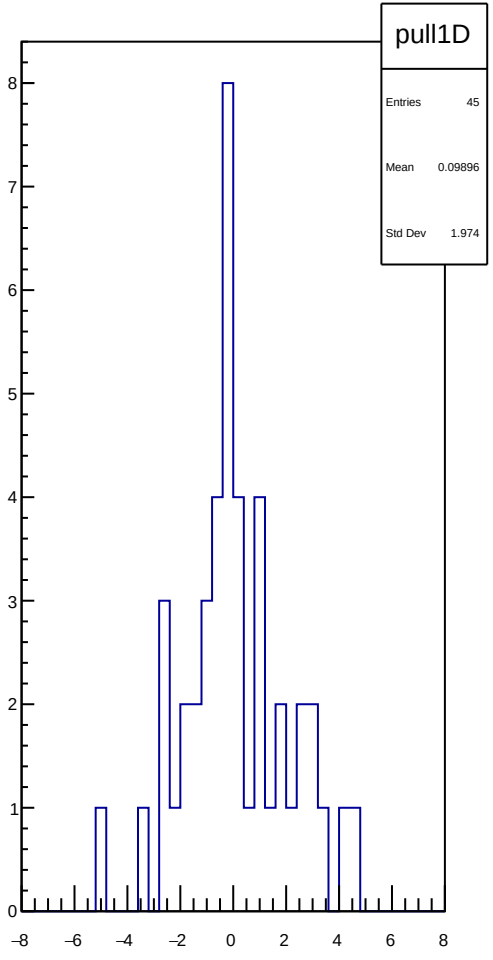

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 93.4 / 44
p0 −0.9782 ± 0.07319
pull
Entries 45
Mean 31.52
Std Dev 25.86
pull1D
Entries 45
Mean −0.05273
Std Dev 1.44

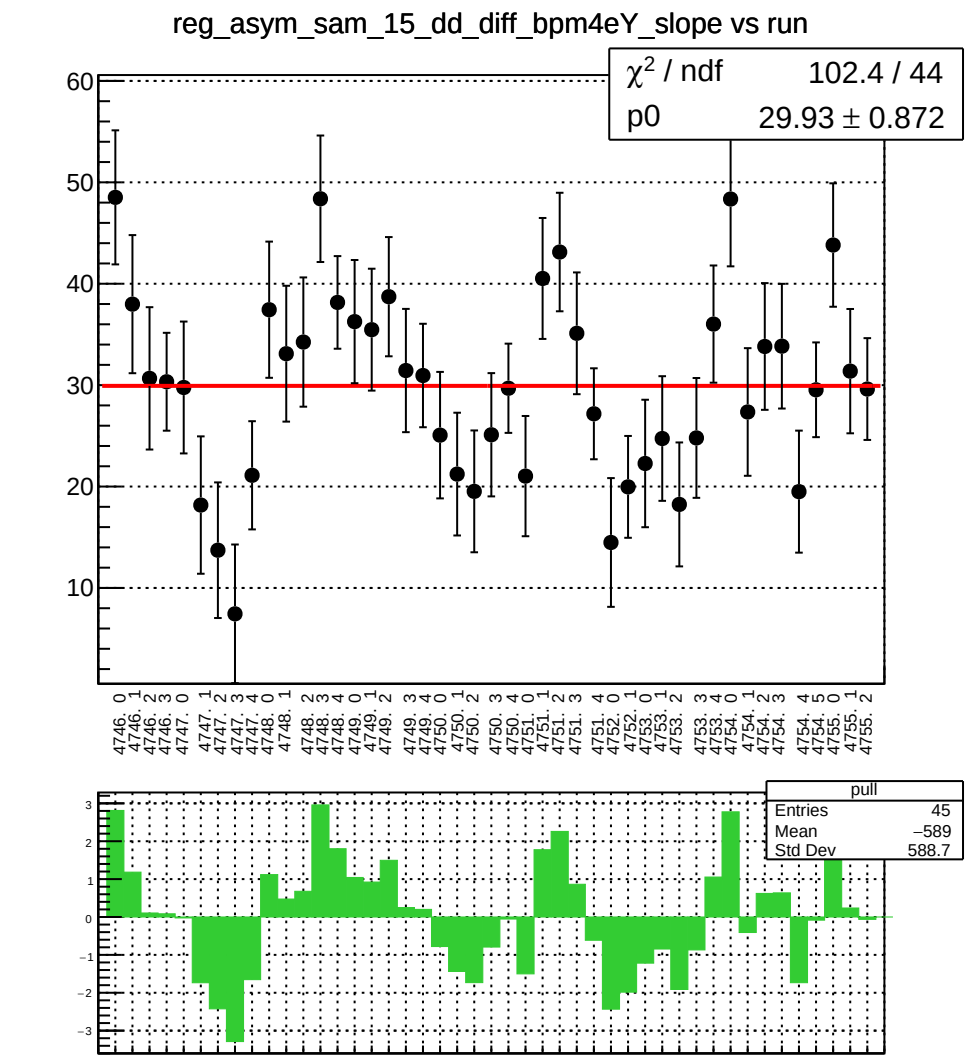

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 388.4 / 44
p0 −81.64 ± 0.5993
pull
Entries 45
Mean −60.04
Std Dev 73.56
pull1D
Entries 45
Mean −0.1487
Std Dev 2.934

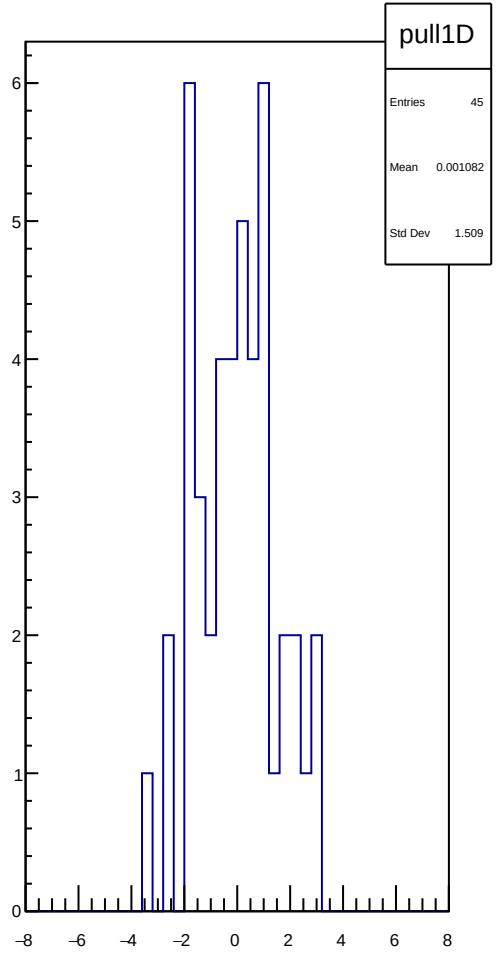

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 109.5 / 44
p0 −69.5 ± 0.7498
−50
−60
−70
−80
−90
−100
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −449.3
Std Dev 467.6
3
2
1
0
−1
−2
−3
−4
−5

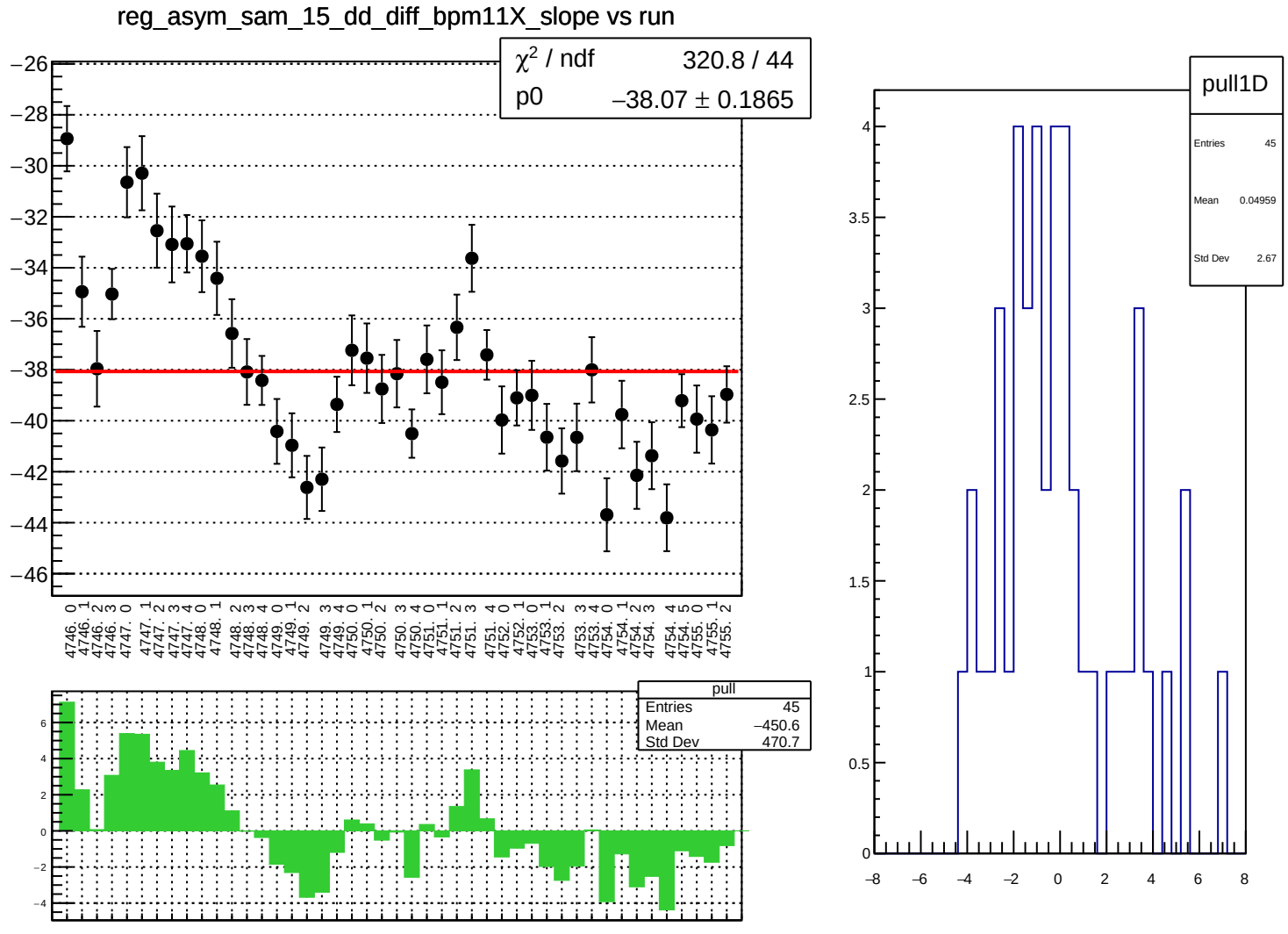

pull1D
Entries 45
Mean −0.01787
Std Dev 1.56
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

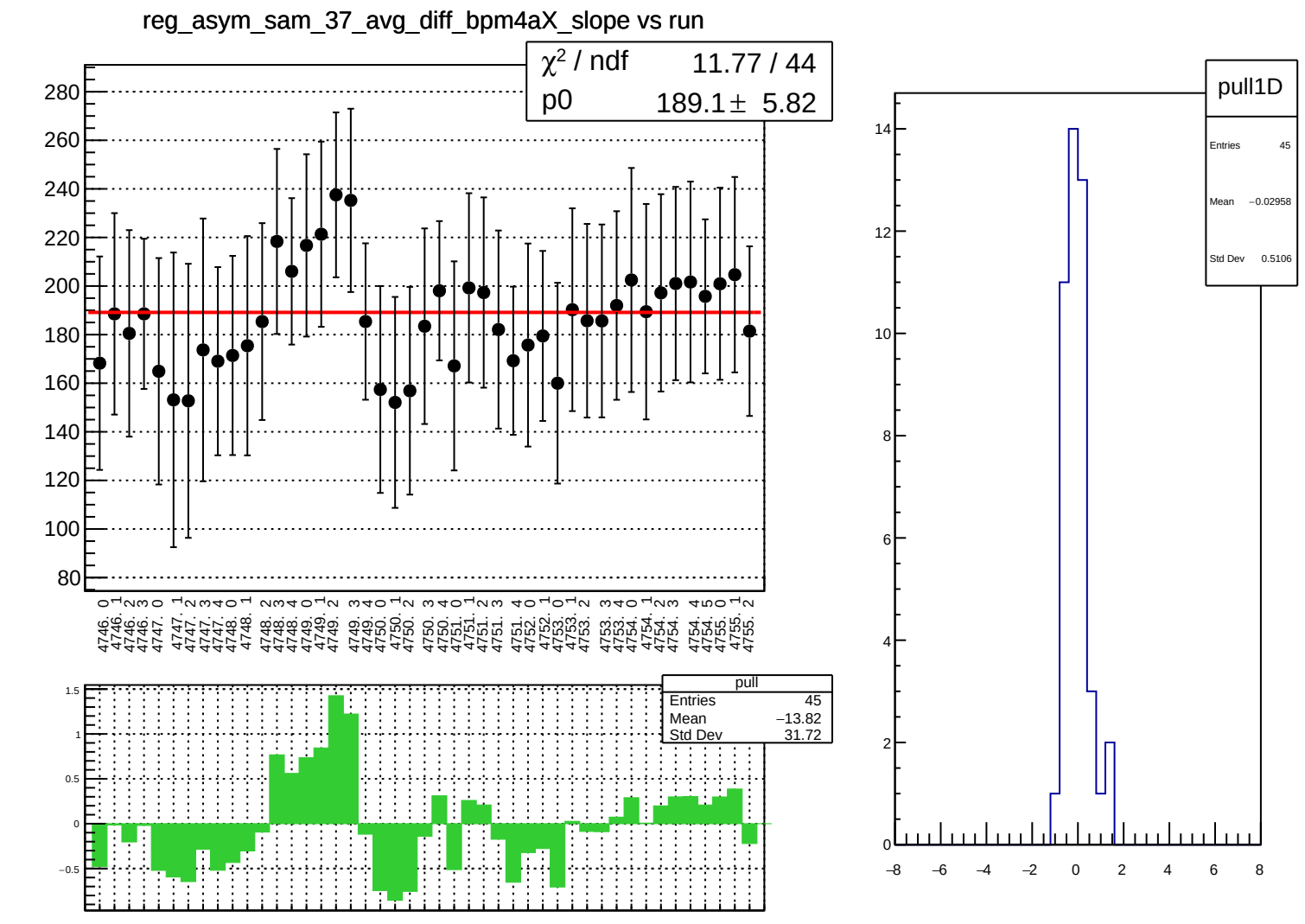

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 175.7 / 44
p0 0.6087 ± 0.1205
pull
Entries 45
Mean −36.13
Std Dev 40.63

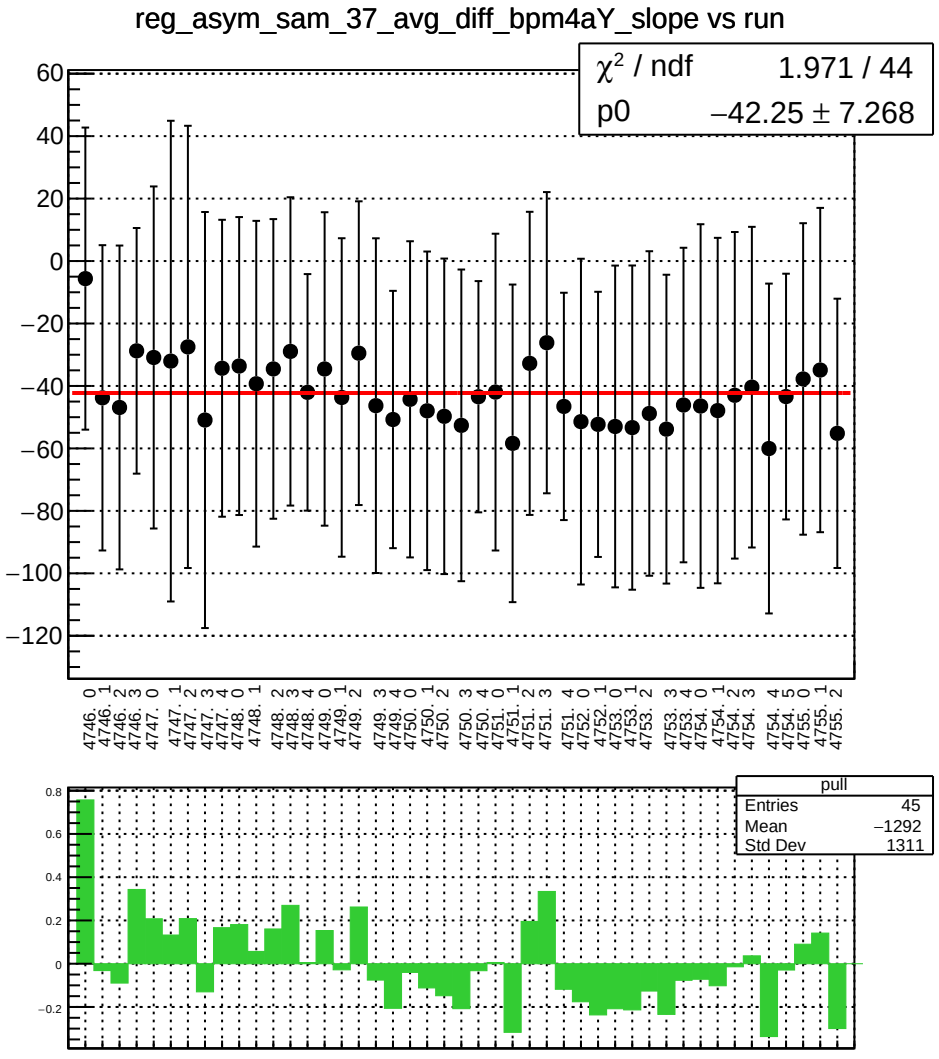

pull1D
Entries 45
Mean 0.09896
Std Dev 1.974

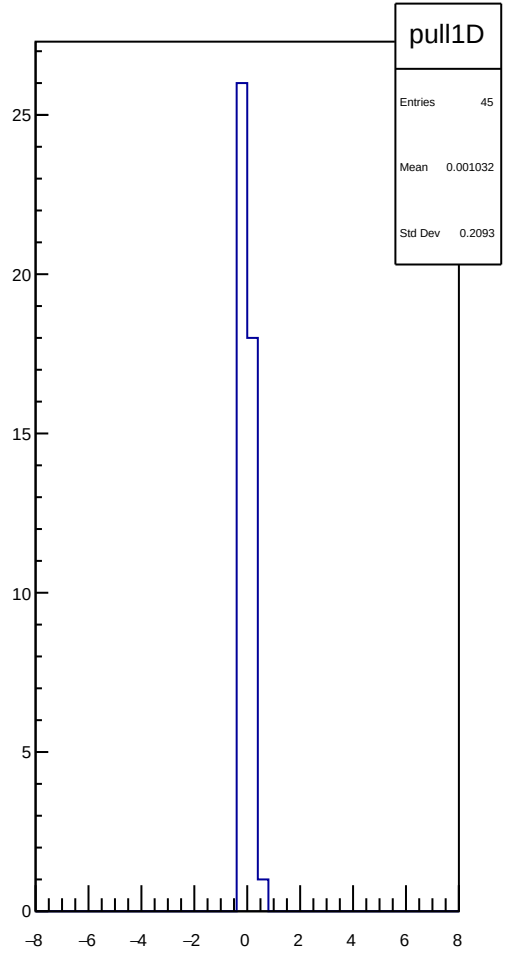

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 102.4 / 44
p0 29.93 ± 0.872
60
50
40
30
20
10
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −589
Std Dev 588.7
3
2
1
0
−1
−2
−3

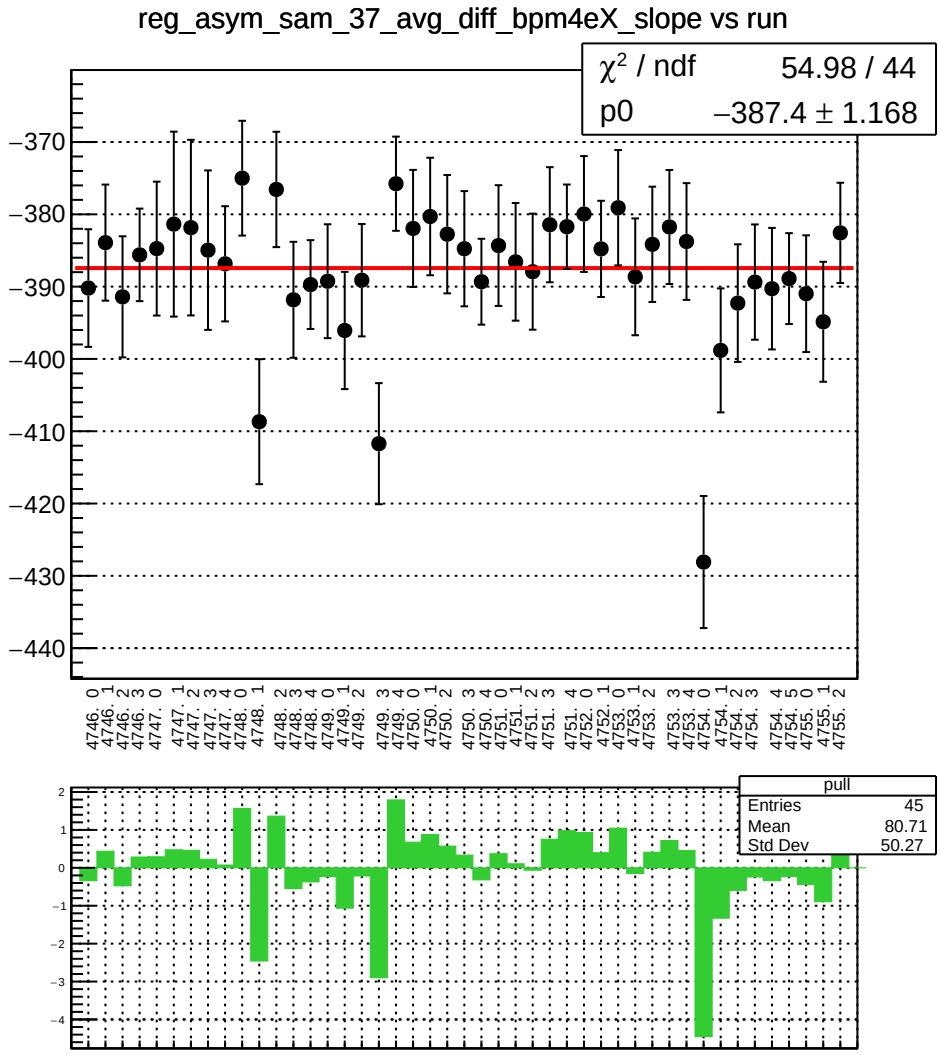

pull1D
Entries 45
Mean 0.001082
Std Dev 1.509
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

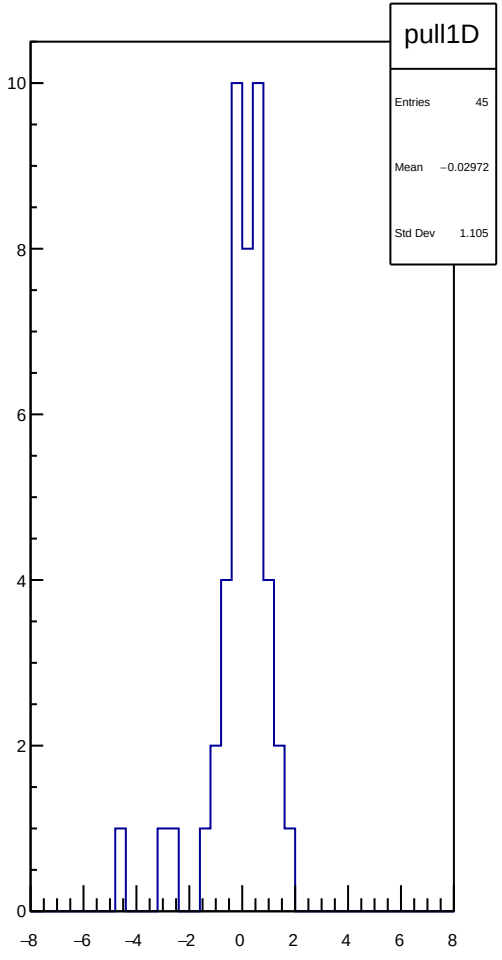

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 320.8 / 44
p0 −38.07 ± 0.1865
pull
Entries 45
Mean −450.6
Std Dev 470.7
pull1D
Entries 45
Mean 0.04959
Std Dev 2.67

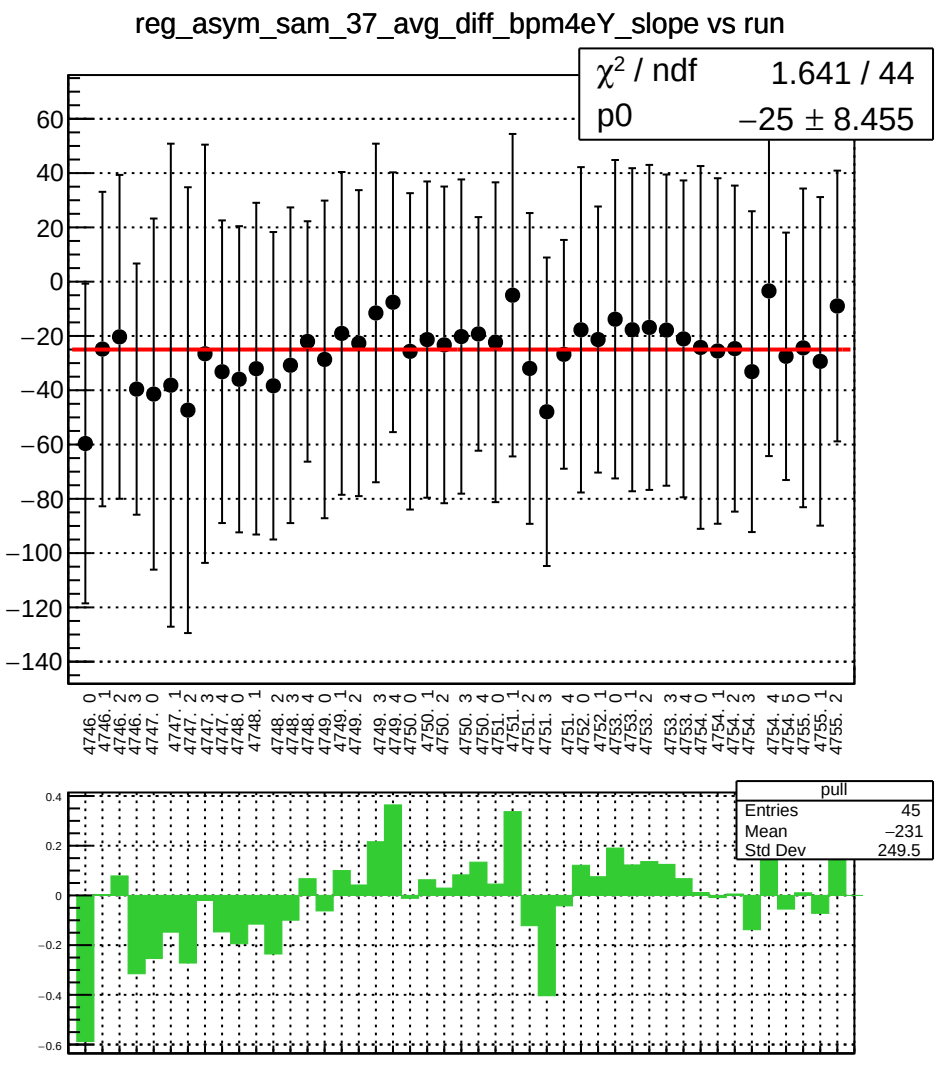

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 11.77 / 44
p0 189.1 ± 5.82
pull
Entries 45
Mean −13.82
Std Dev 31.72
pull1D
Entries 45
Mean −0.02958
Std Dev 0.5106

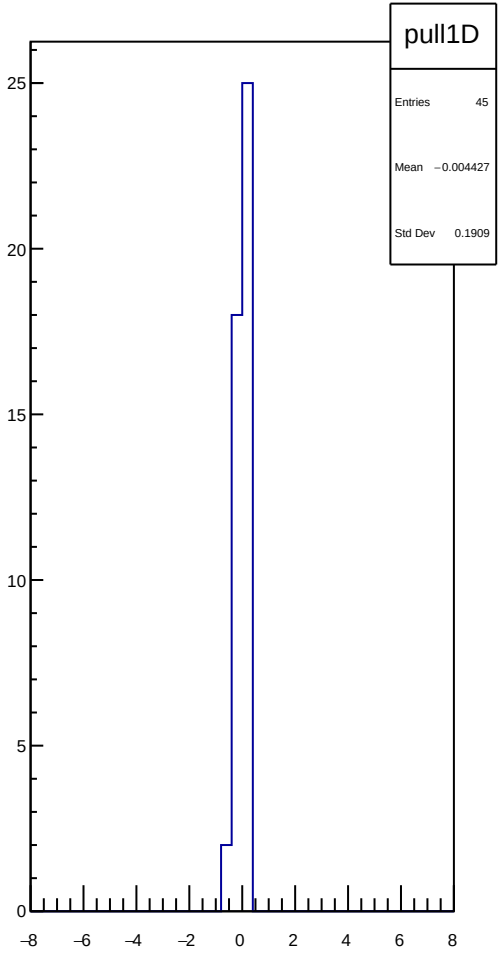

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.971 / 44
p0 −42.25 ± 7.268
pull
Entries 45
Mean −1292
Std Dev 1311

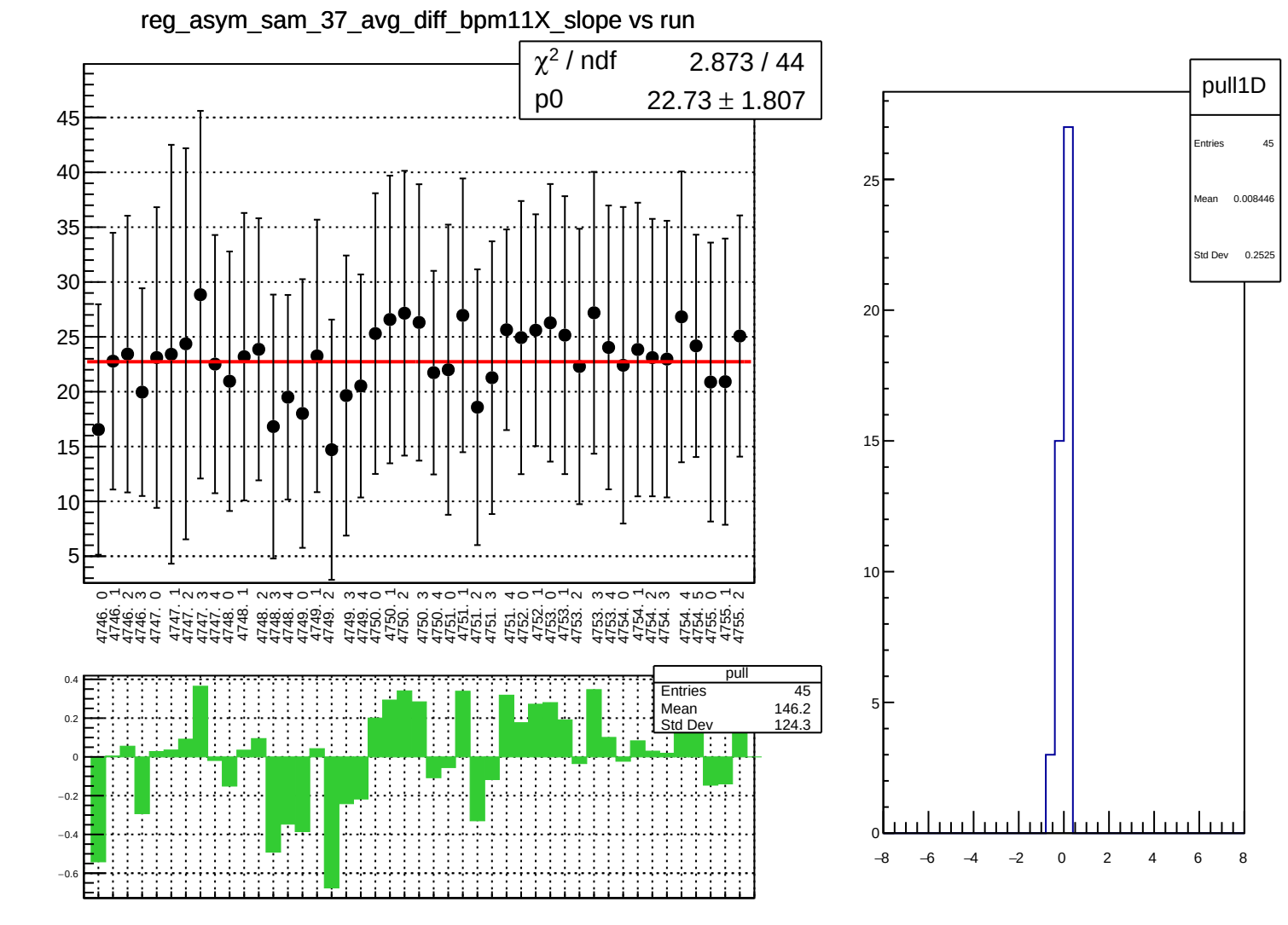

pull1D
Entries 45
Mean 0.001032
Std Dev 0.2093

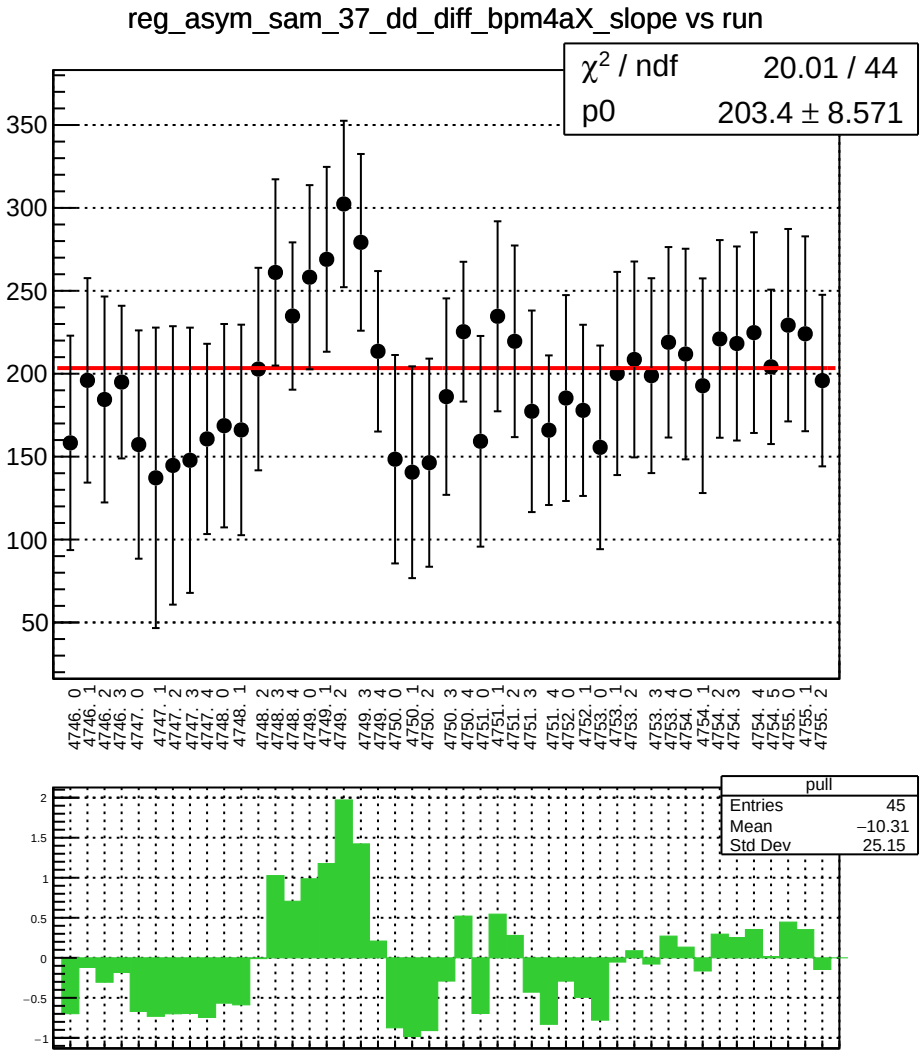

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 54.98 / 44
p0 −387.4 ± 1.168
−370
−380
−390
−400
−410
−420
−430
−440
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 80.71
Std Dev 50.27
2
1
0
−1
−2
−3
−4

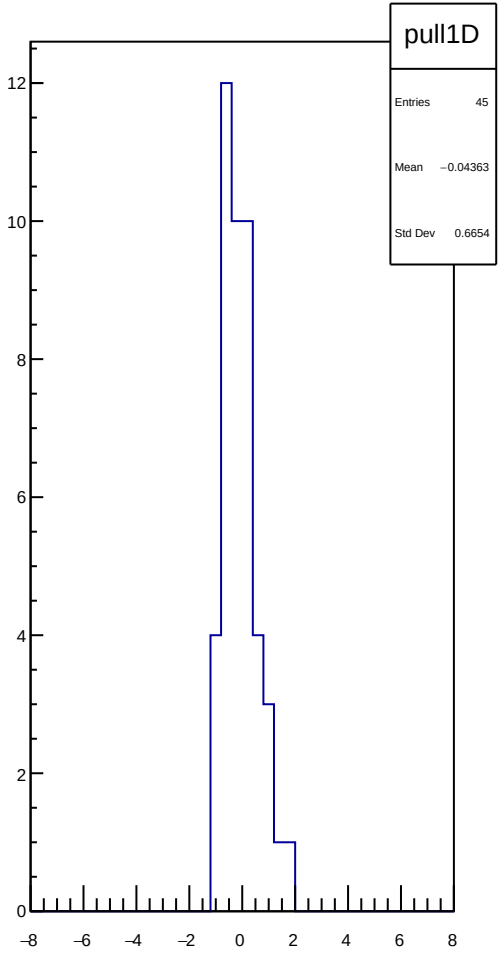

pull1D
Entries 45
Mean −0.02972
Std Dev 1.105
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

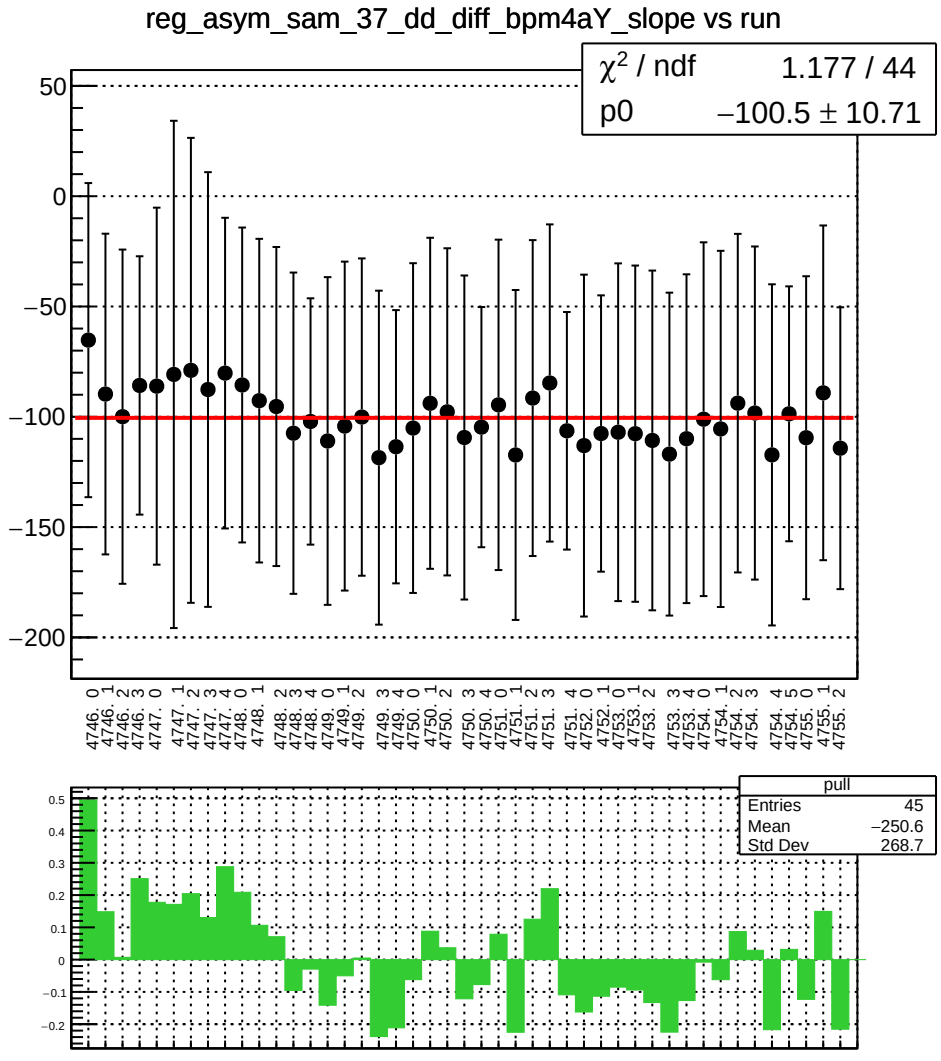

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.641 / 44
p0 −25 ± 8.455
pull
Entries 45
Mean −231
Std Dev 249.5

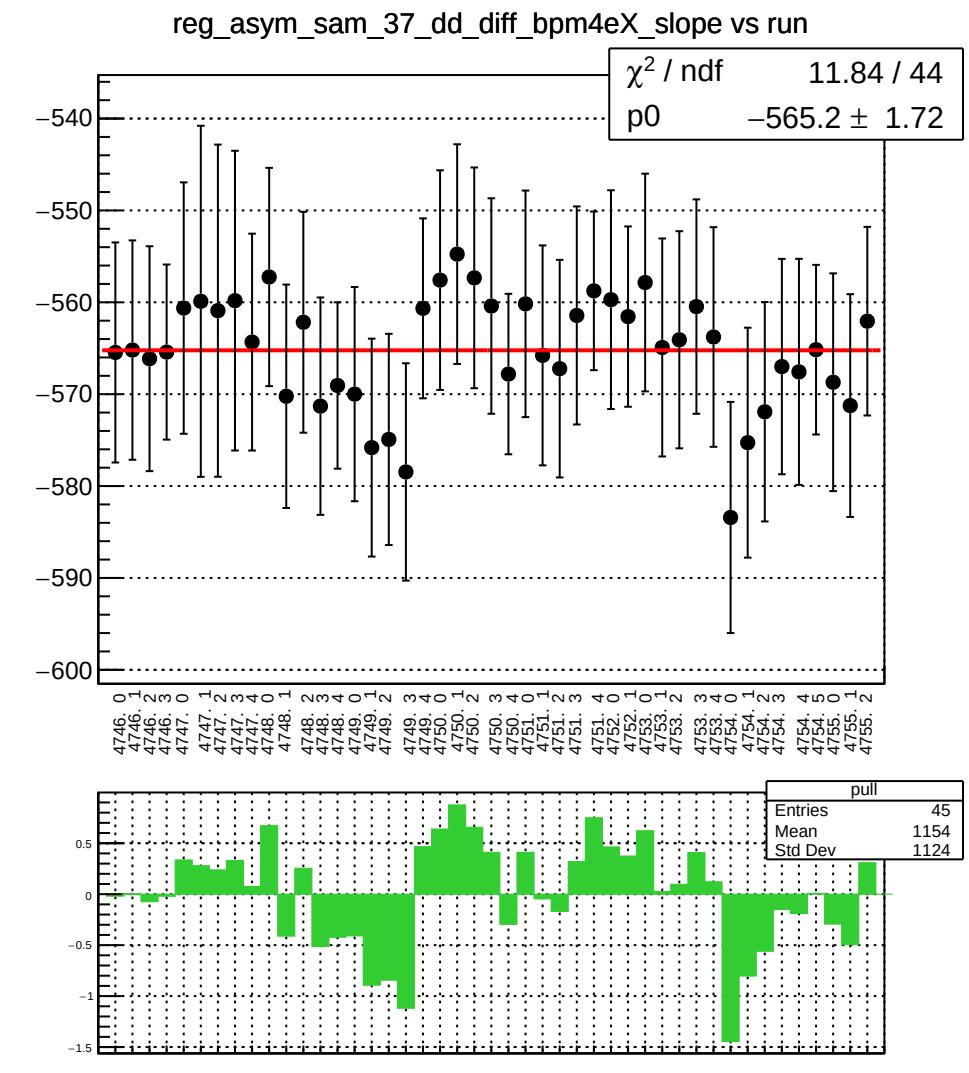

pull1D
Entries 45
Mean −0.004427
Std Dev 0.1909

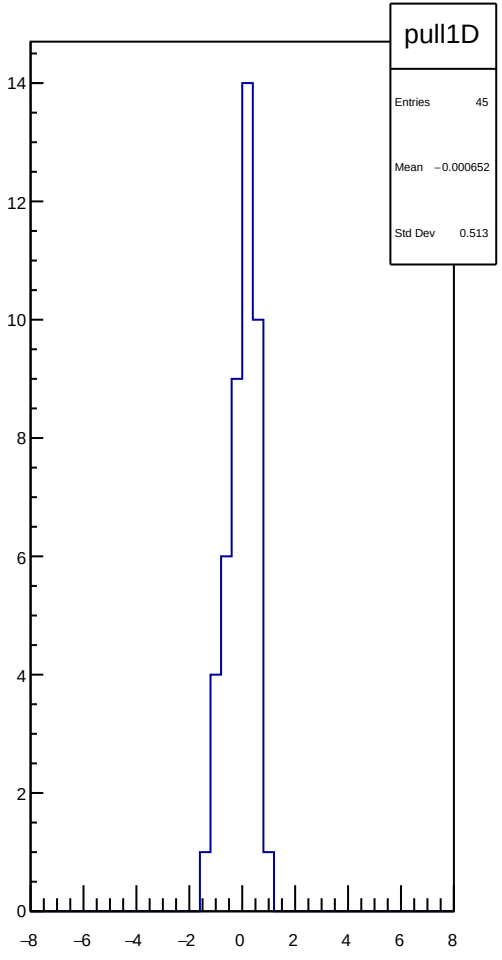

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 2.873 / 44
p0 22.73 ± 1.807
pull
Entries 45
Mean 146.2
Std Dev 124.3
pull1D
Entries 45
Mean 0.008446
Std Dev 0.2525

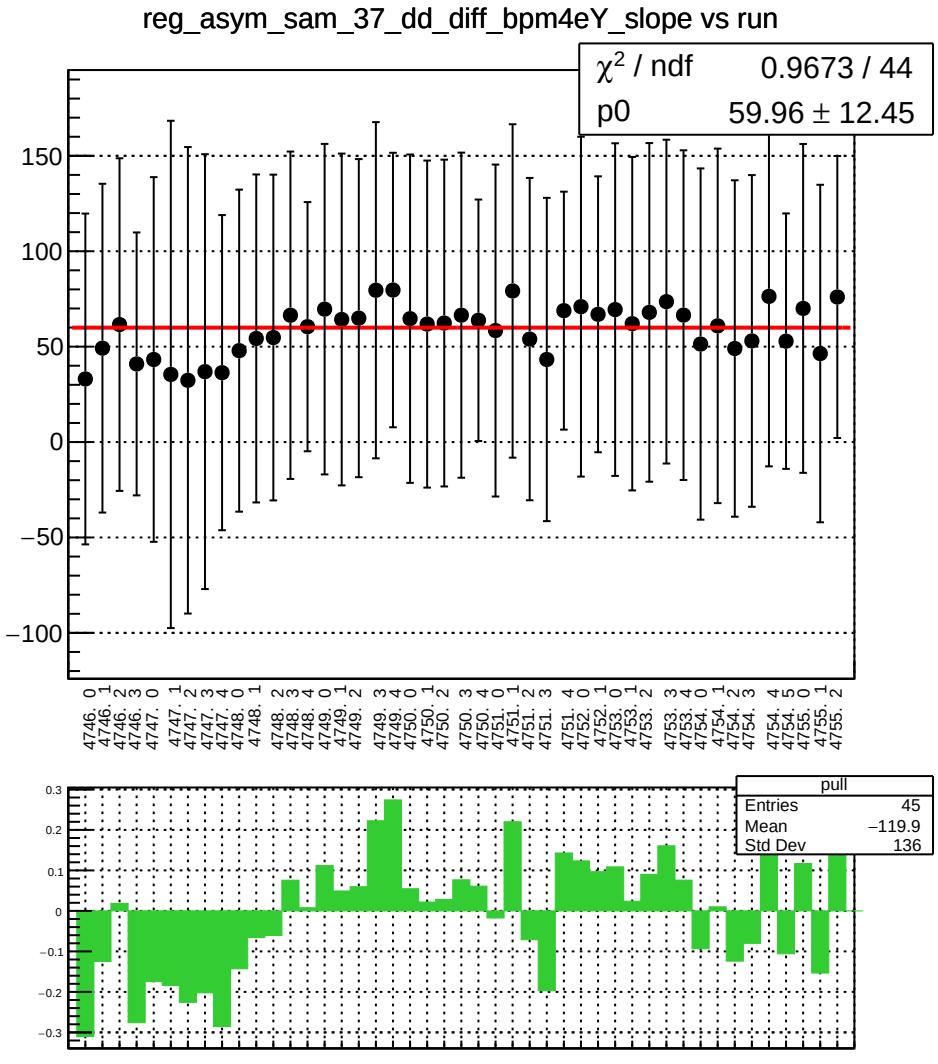

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 20.01 / 44
p0 203.4 ± 8.571
pull
Entries 45
Mean −10.31
Std Dev 25.15

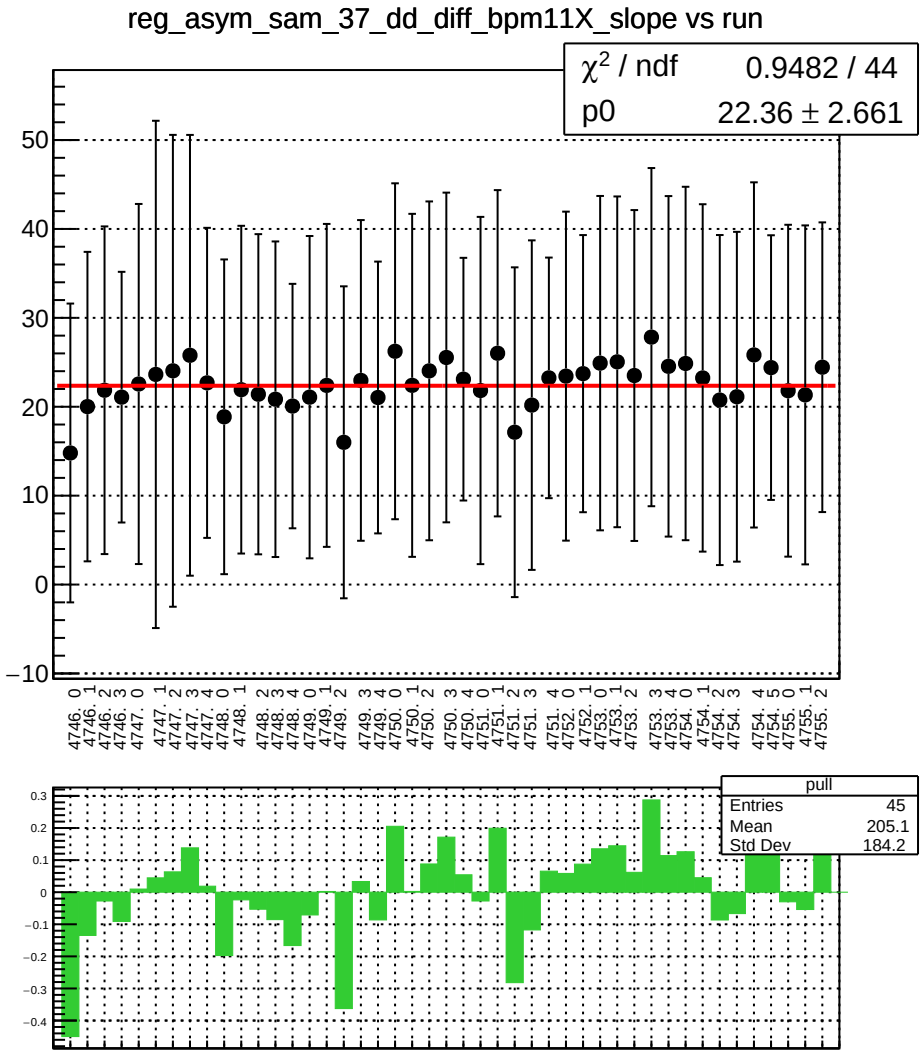

pull1D
Entries 45
Mean −0.04363
Std Dev 0.6654

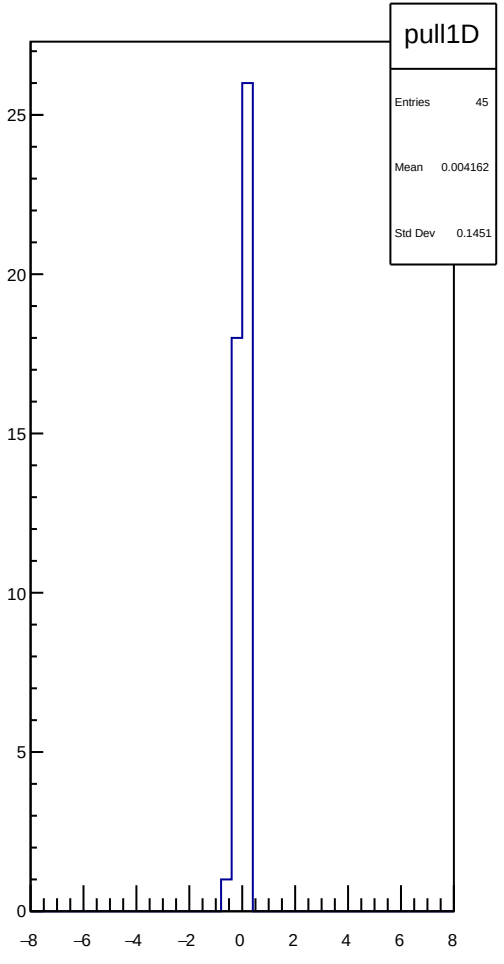

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.177 / 44
p0 −100.5 ± 10.71
50
0
−50
−100
−150
−200
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −250.6
Std Dev 268.7
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 45
Mean 0.004076
Std Dev 0.1616
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

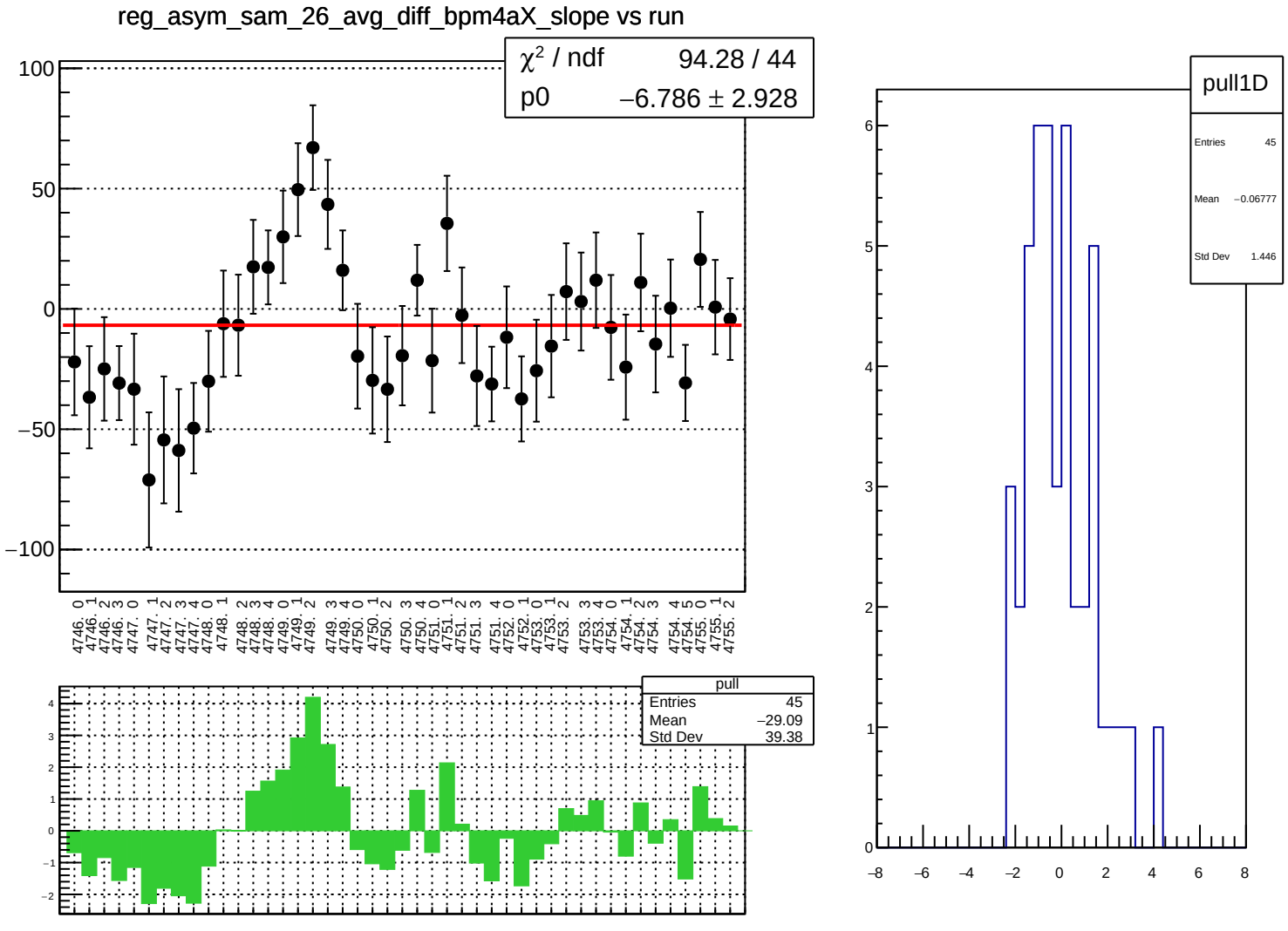

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.84 / 44
p0 −565.2 ± 1.72
pull
Entries 45
Mean 1154
Std Dev 1124

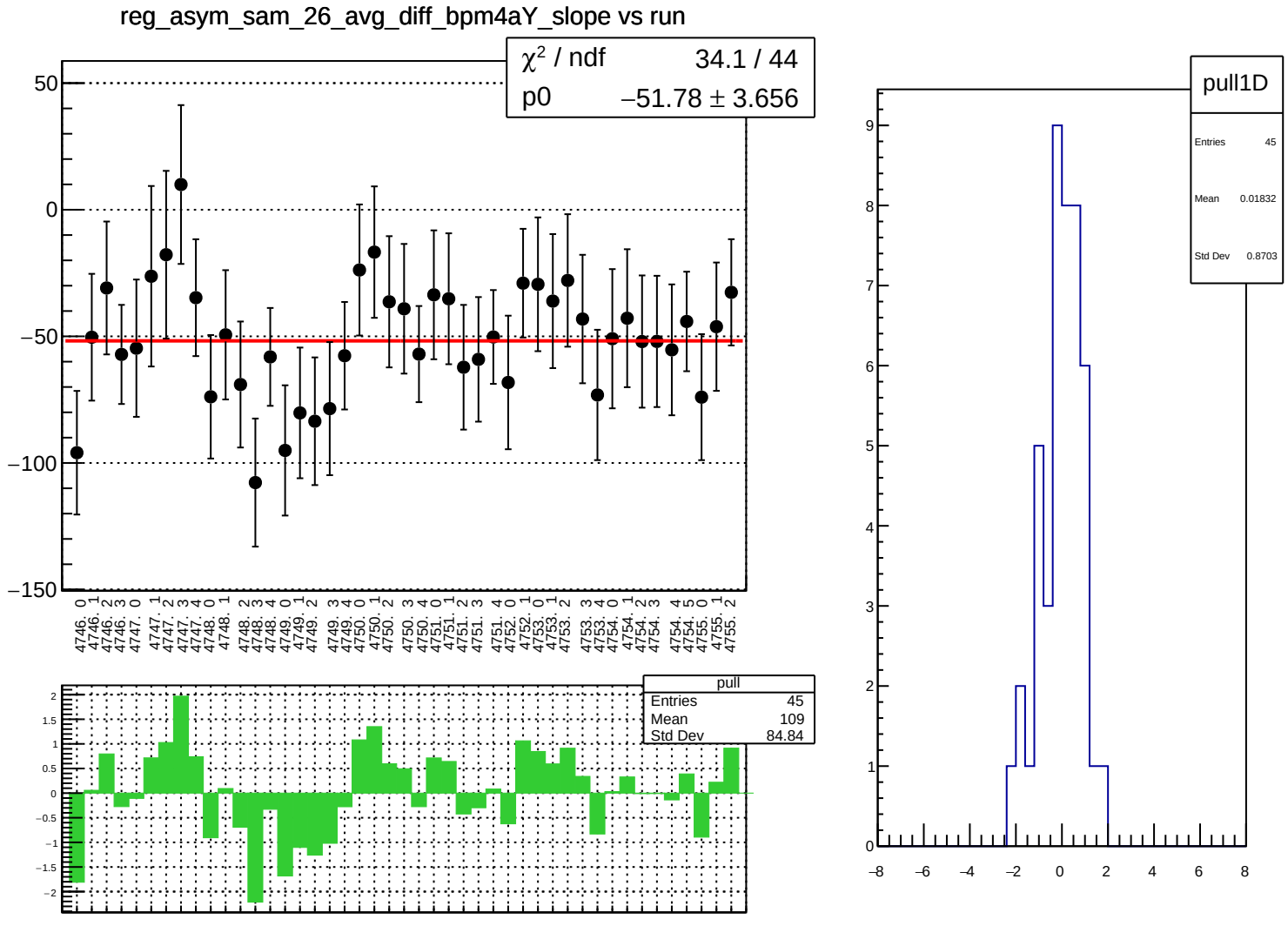

pull1D
Entries 45
Mean −0.000652
Std Dev 0.513

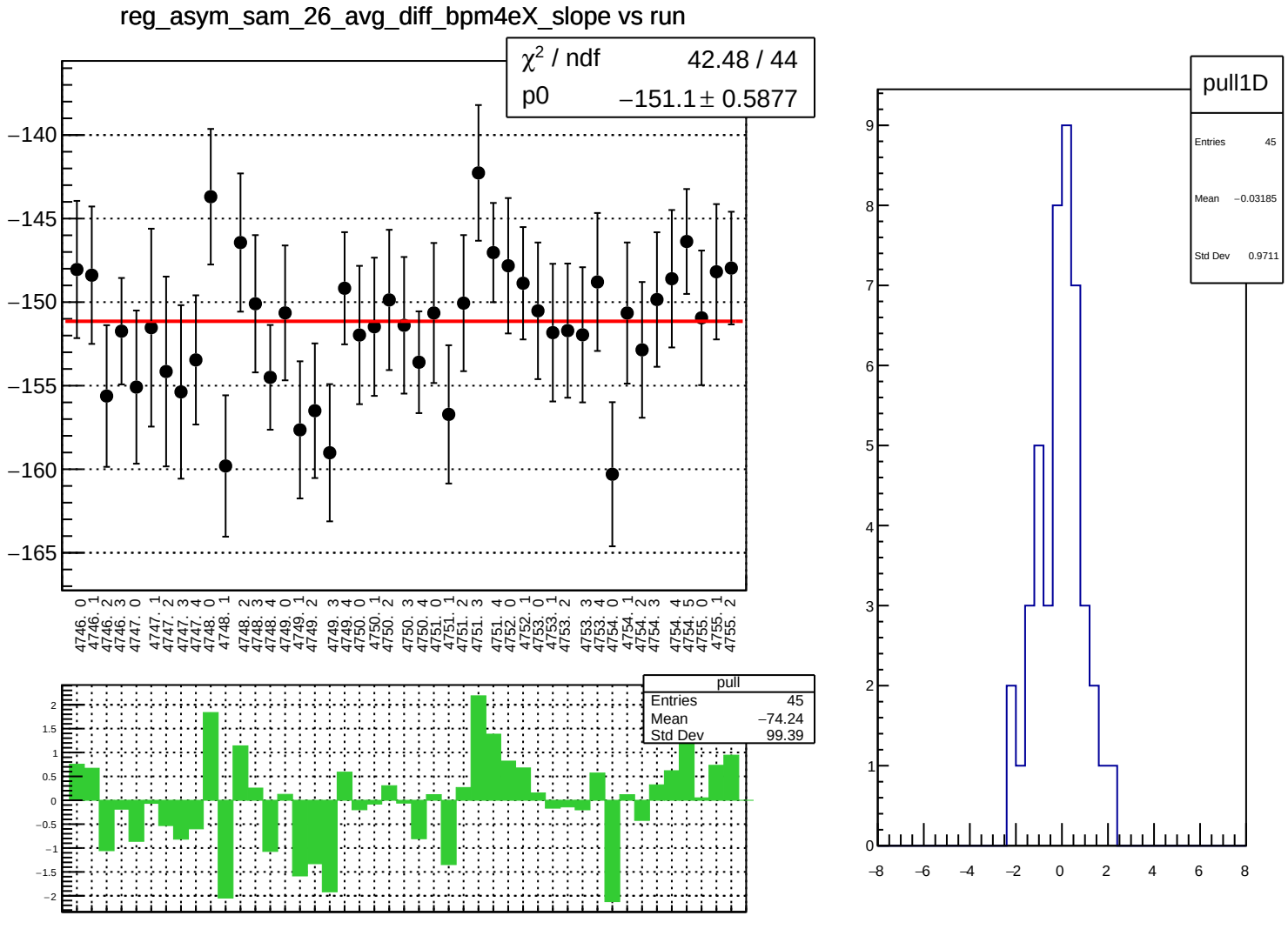

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.9673 / 44
p0 59.96 ± 12.45
150
100
50
0
−50
−100
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −119.9
Std Dev 136
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 45
Mean −0.005838
Std Dev 0.1465
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

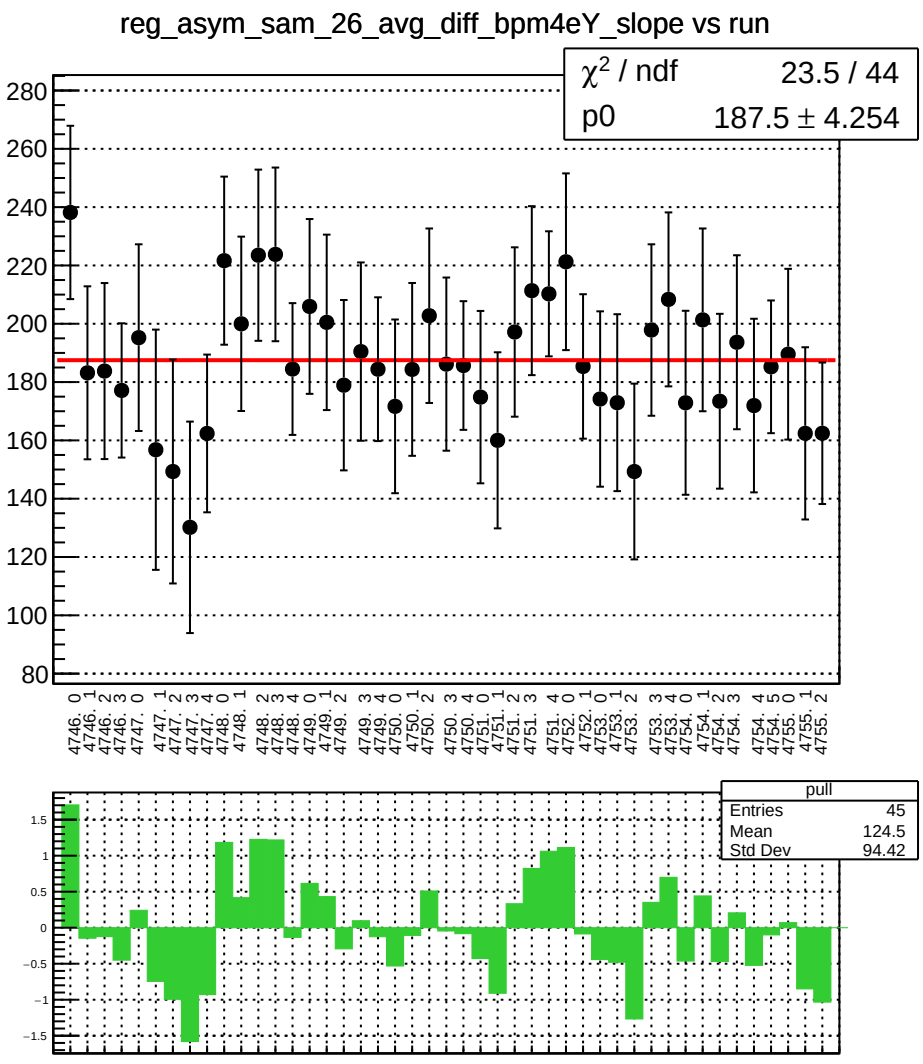

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 0.9482 / 44
p0 22.36 ± 2.661
pull
Entries 45
Mean 205.1
Std Dev 184.2

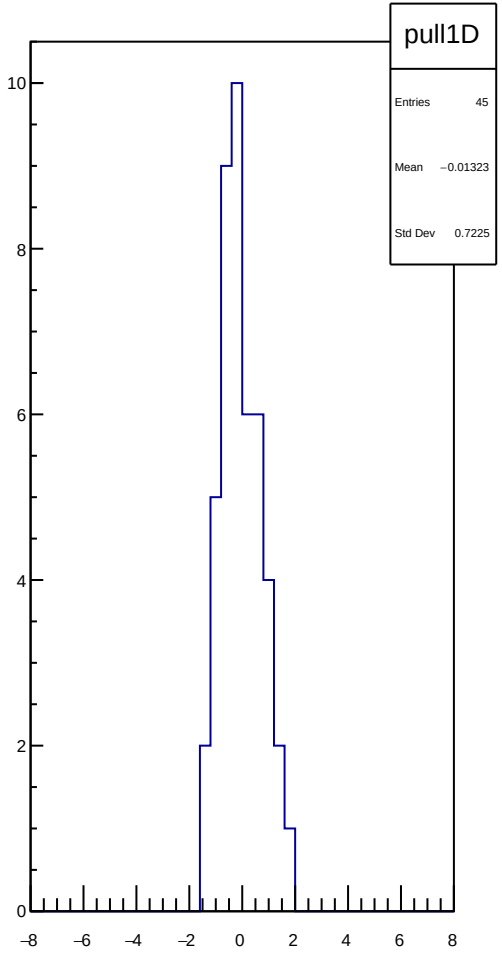

pull1D
Entries 45
Mean 0.004162
Std Dev 0.1451

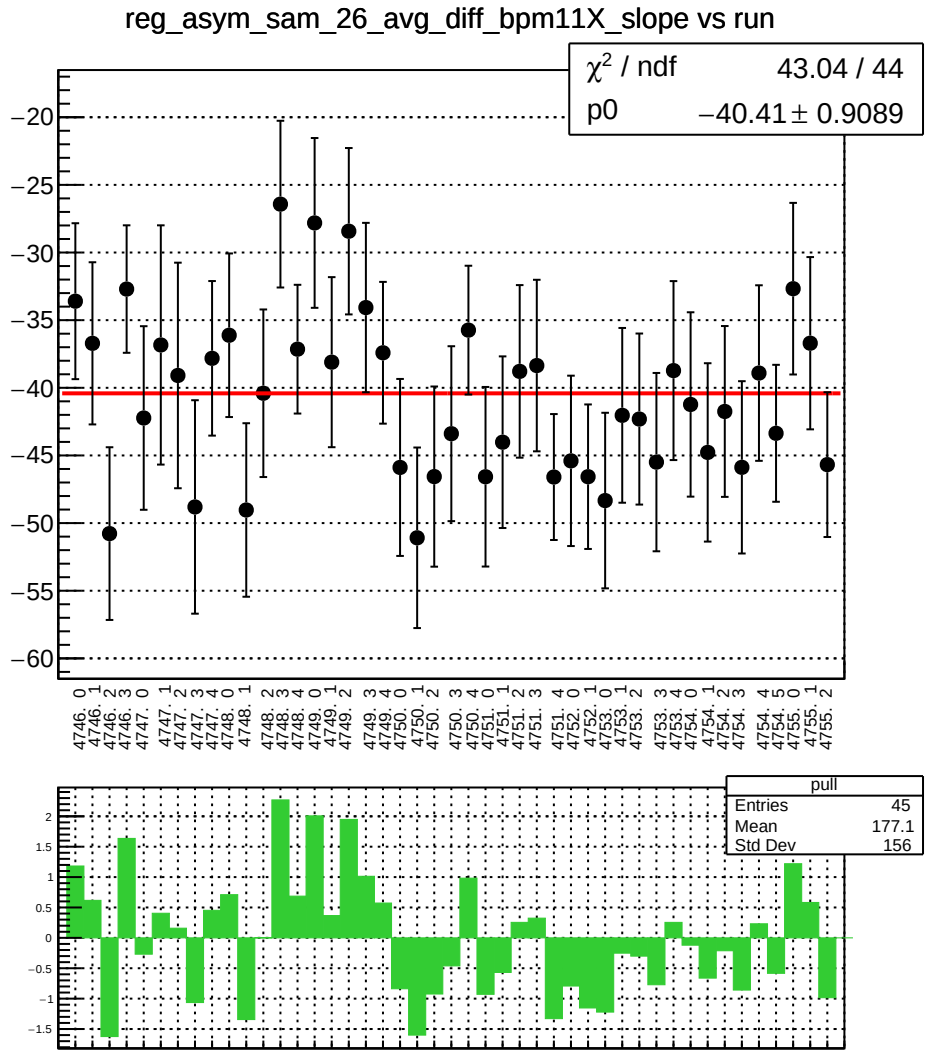

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 94.28 / 44
p0 −6.786 ± 2.928
100
50
0
−50
−100
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −29.09
Std Dev 39.38
4
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.06777
Std Dev 1.446
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

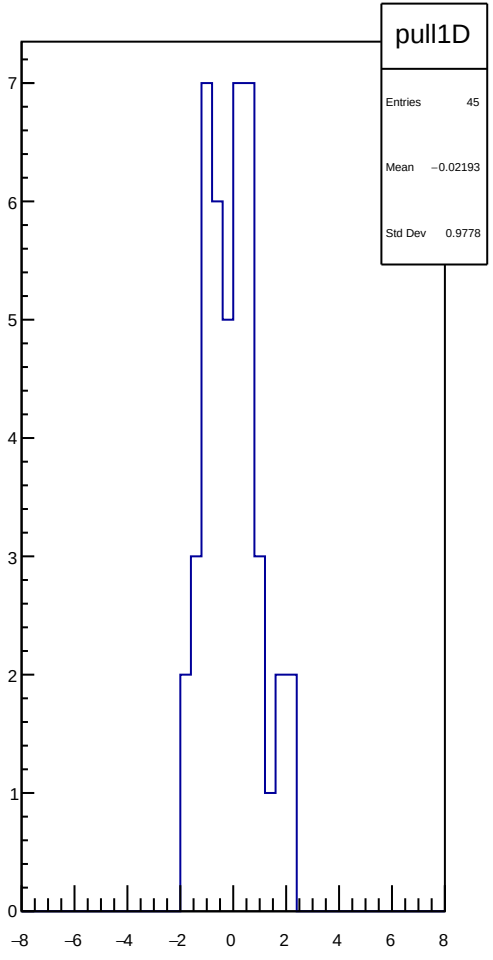

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 34.1 / 44
p0 −51.78 ± 3.656
50
0
−50
−100
−150
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 109
Std Dev 84.84
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01832
Std Dev 0.8703
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

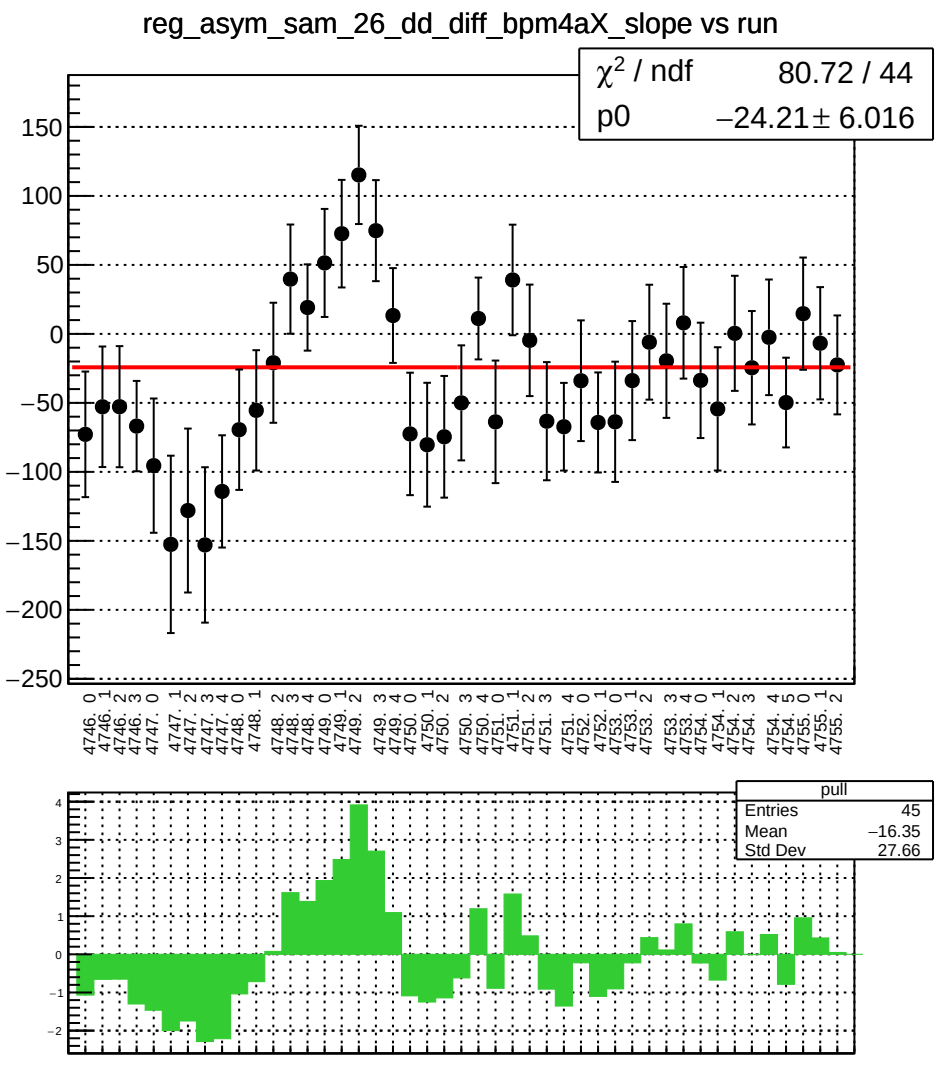

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.48 / 44
p0 −151.1 ± 0.5877
pull
Entries 45
Mean −74.24
Std Dev 99.39
pull1D
Entries 45
Mean −0.03185
Std Dev 0.9711

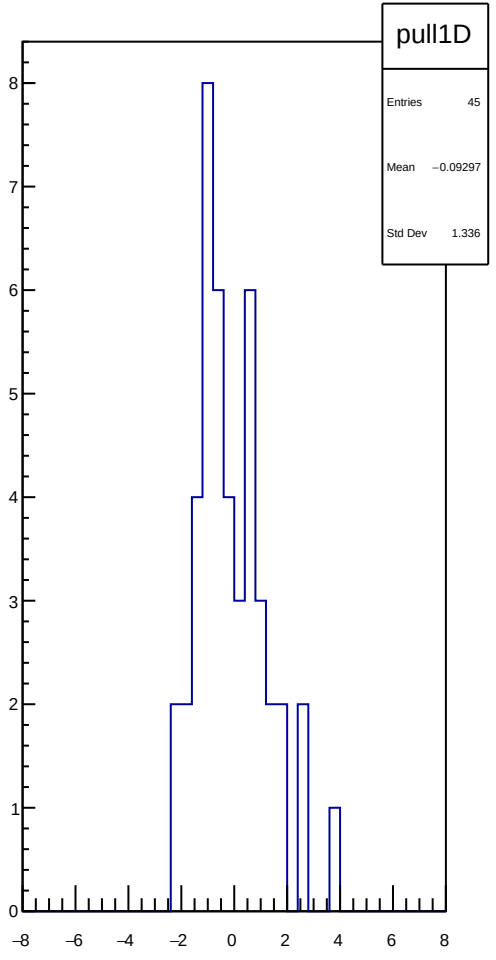

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.5 / 44
p0 187.5 ± 4.254
pull
Entries 45
Mean 124.5
Std Dev 94.42

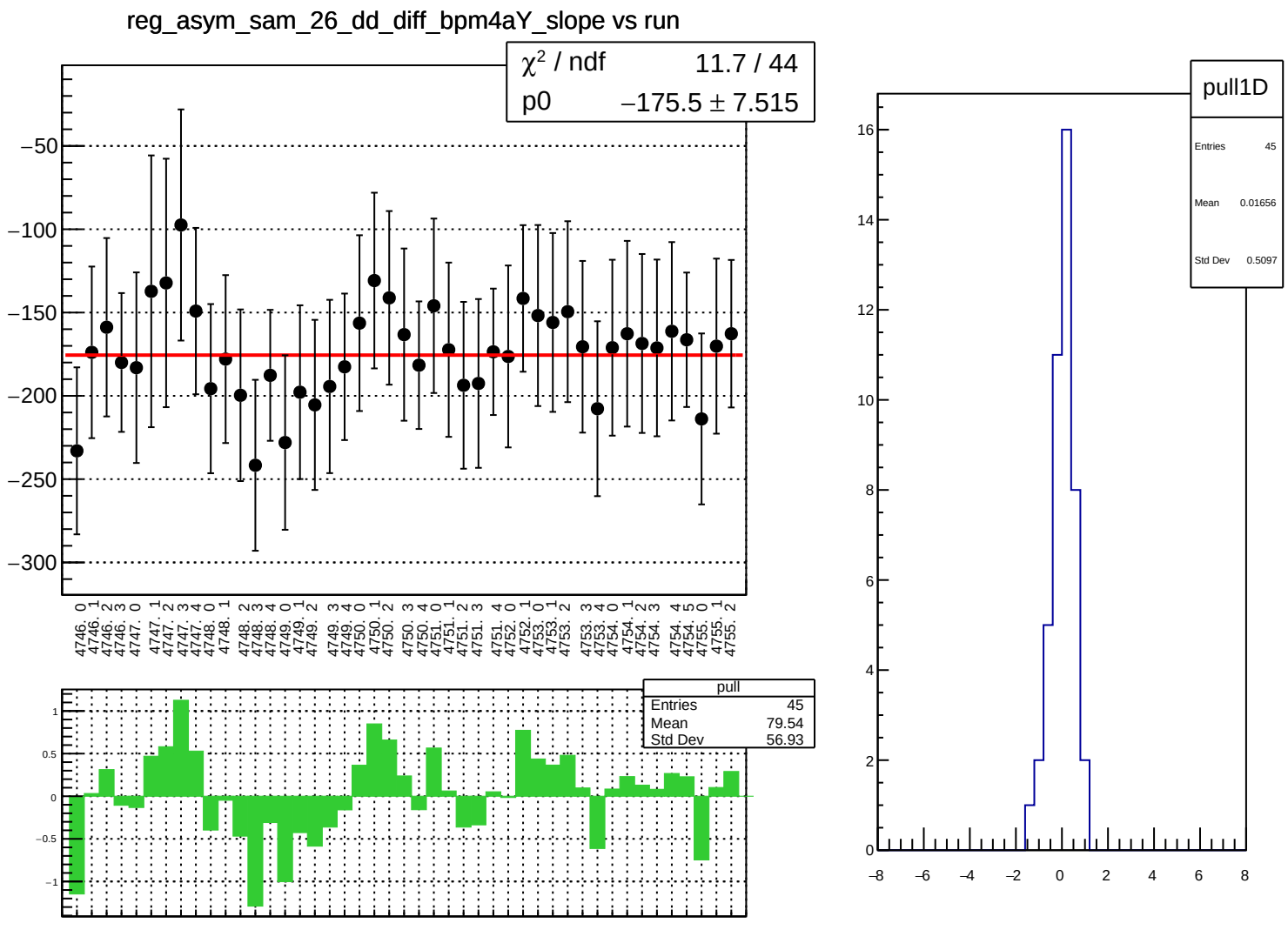

pull1D
Entries 45
Mean −0.01323
Std Dev 0.7225

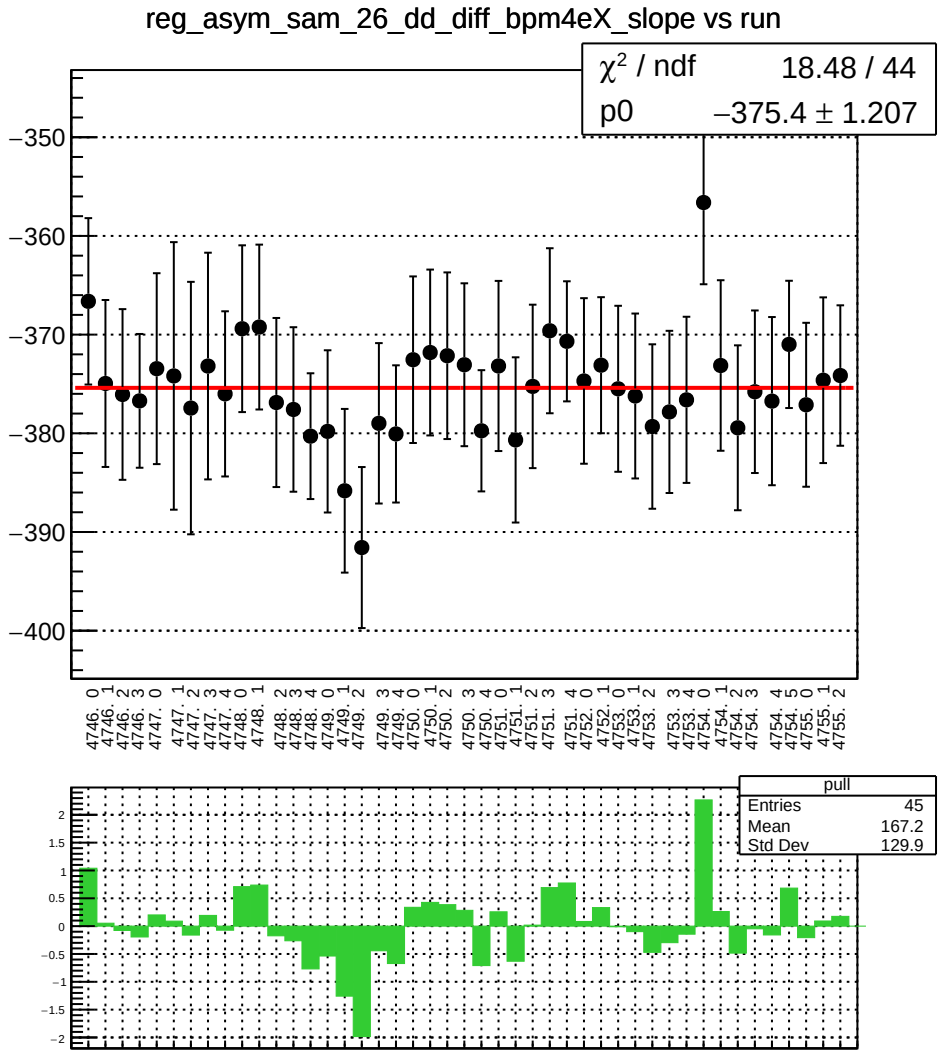

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 43.04 / 44
p0 −40.41 ± 0.9089
pull
Entries 45
Mean 177.1
Std Dev 156

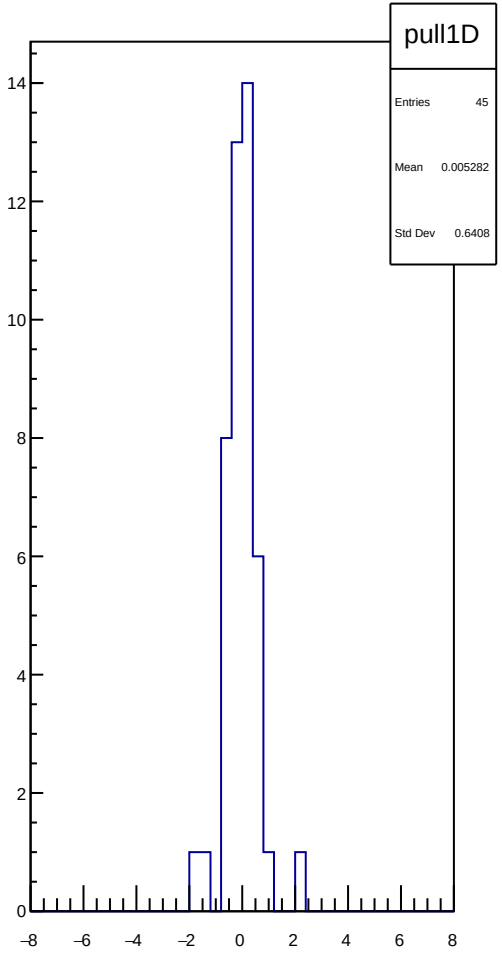

pull1D
Entries 45
Mean −0.02193
Std Dev 0.9778

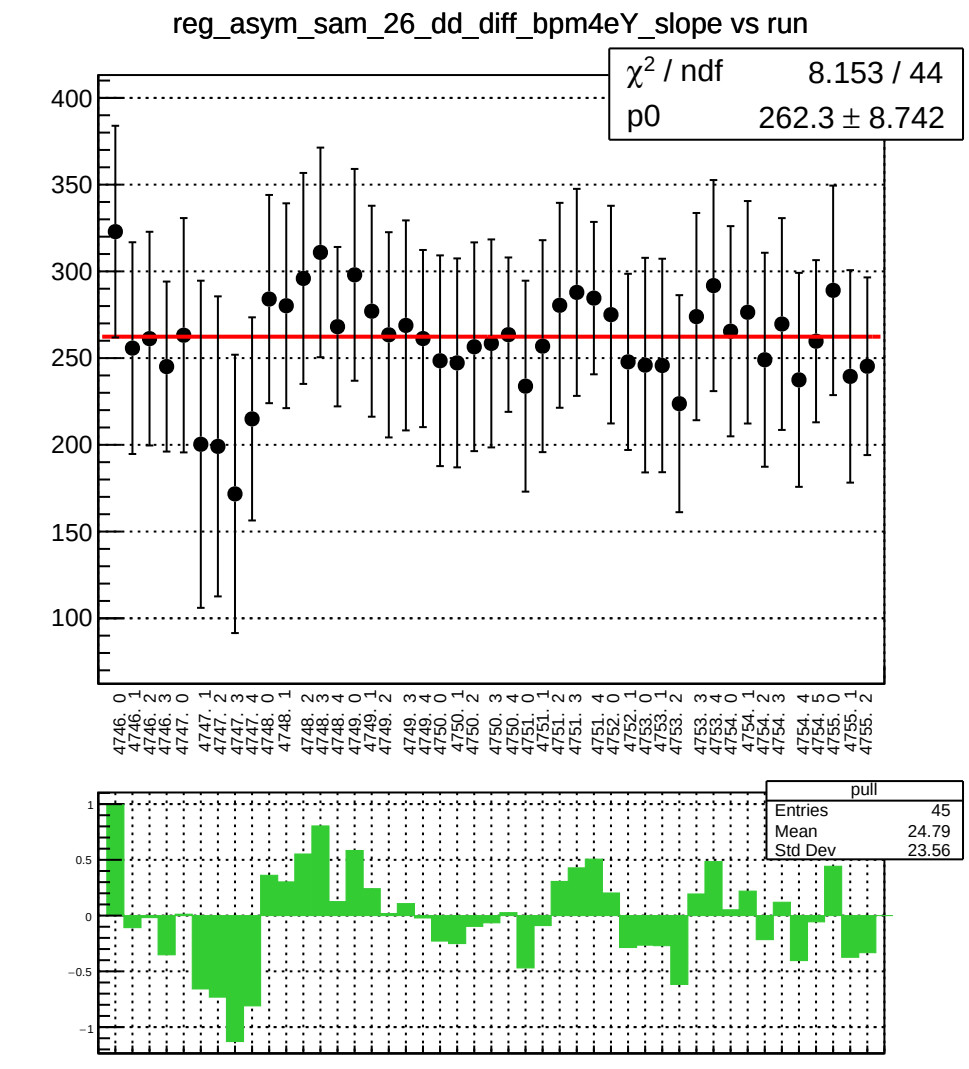

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 80.72 / 44
p0 −24.21± 6.016
pull
Entries 45
Mean −16.35
Std Dev 27.66

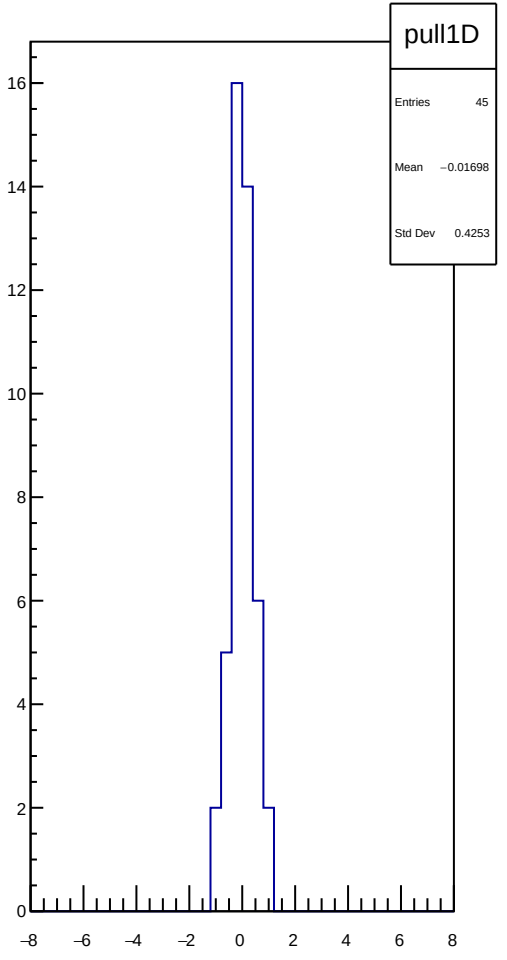

pull1D
Entries 45
Mean −0.09297
Std Dev 1.336

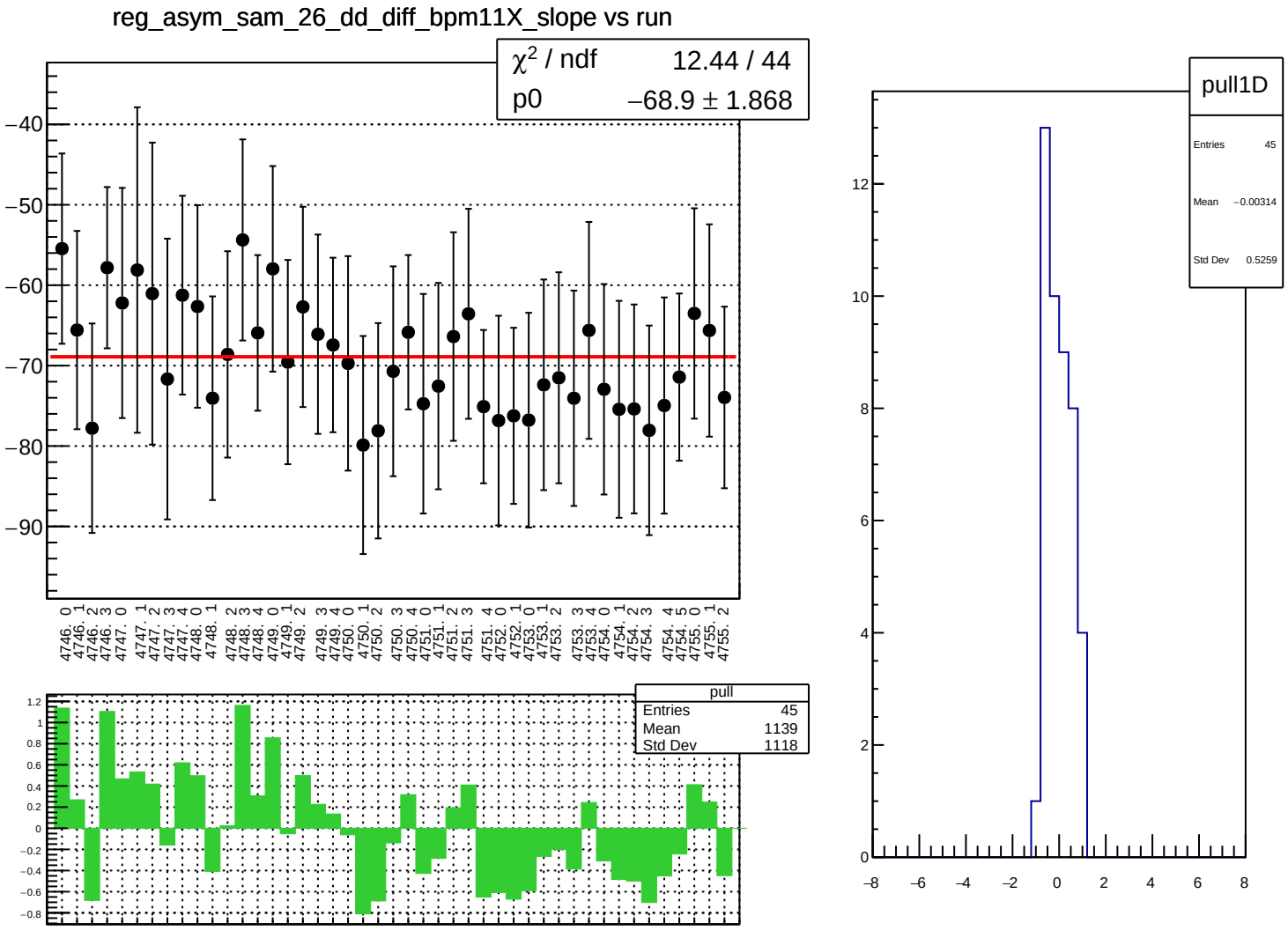

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.7 / 44
p0 −175.5 ± 7.515
pull
Entries 45
Mean 79.54
Std Dev 56.93
pull1D
Entries 45
Mean 0.01656
Std Dev 0.5097

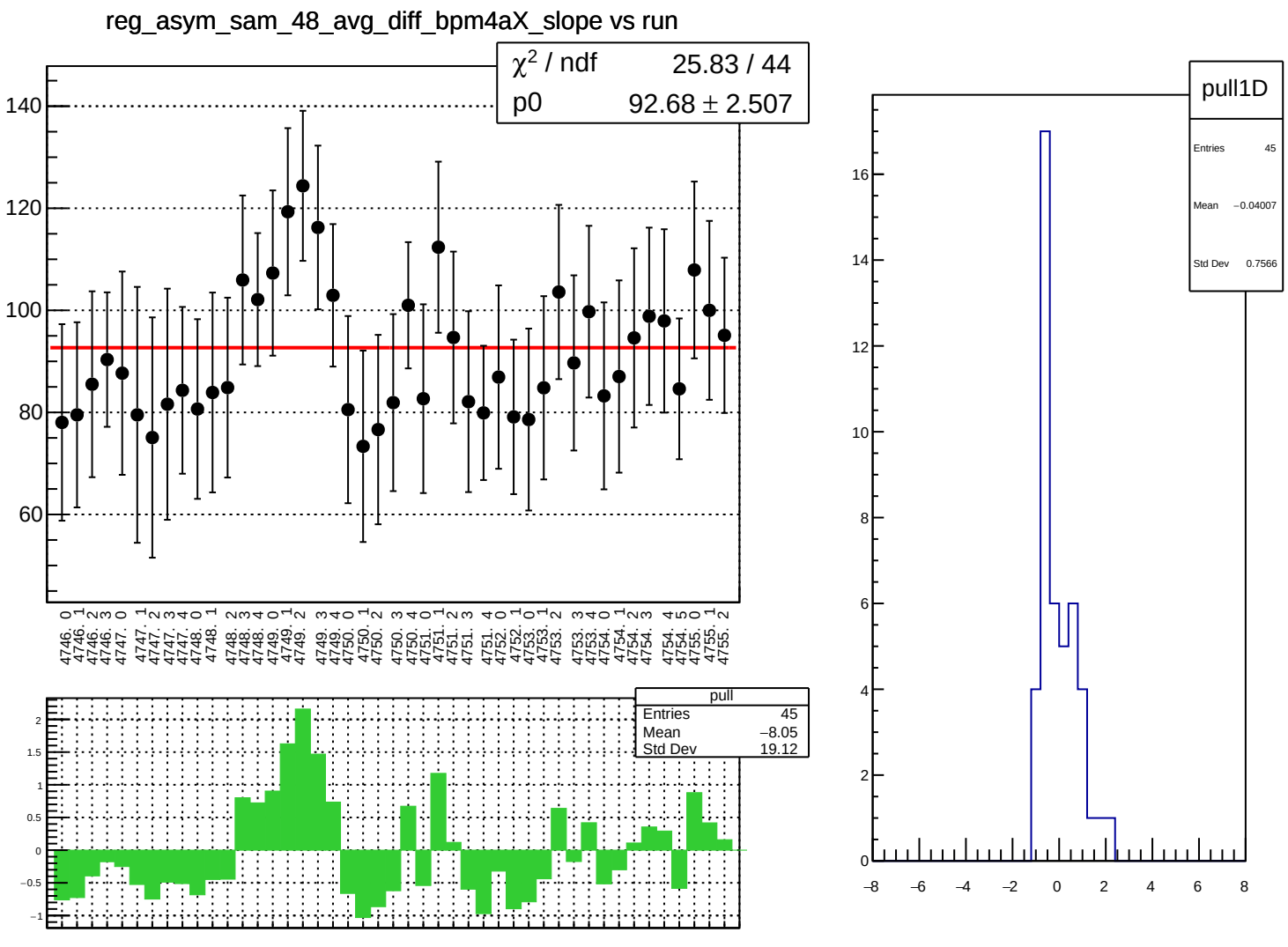

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.48 / 44
p0 −375.4 ± 1.207
−350
−360
−370
−380
−390
−400
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 167.2
Std Dev 129.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

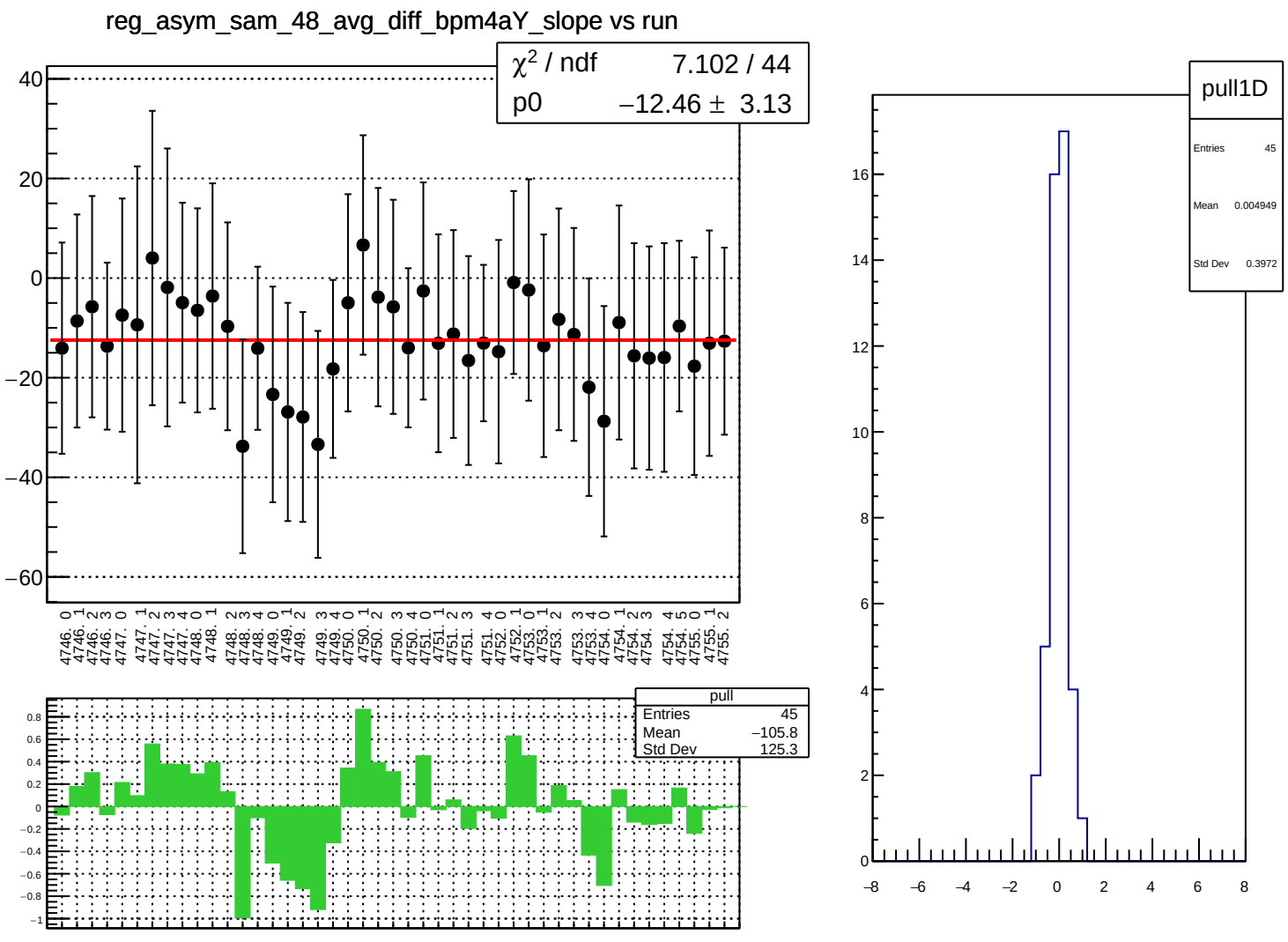

pull1D
Entries 45
Mean 0.005282
Std Dev 0.6408
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

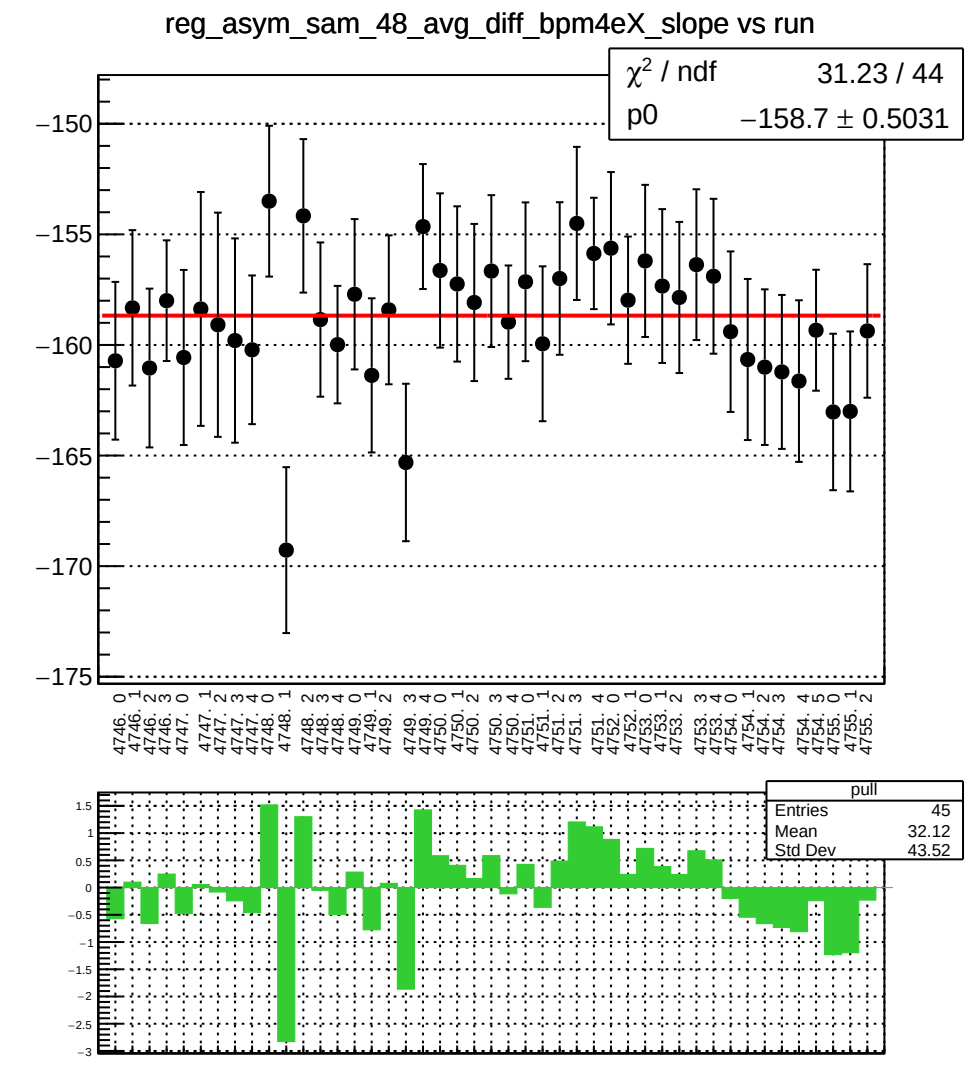

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.153 / 44
p0 262.3 ± 8.742
400
350
300
250
200
150
100
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 24.79
Std Dev 23.56
1
0.5
0
−0.5
−1

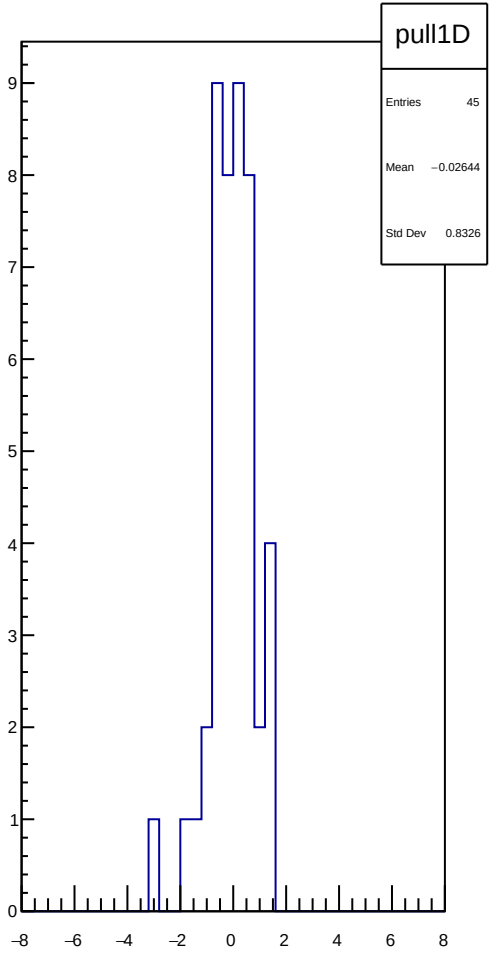

pull1D
Entries 45
Mean −0.01698
Std Dev 0.4253
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

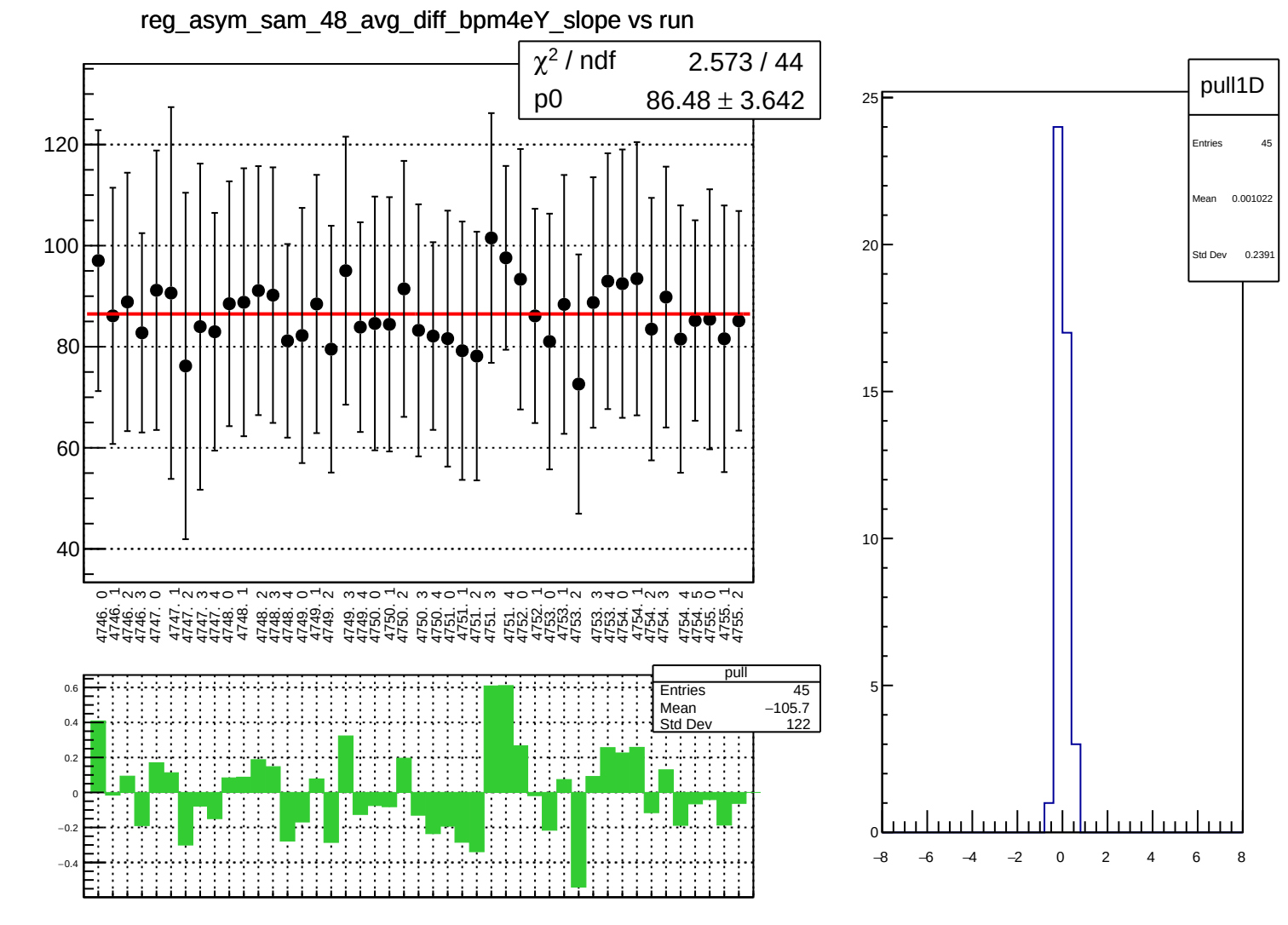

reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 12.44 / 44
p0 −68.9 ± 1.868
pull
Entries 45
Mean 1139
Std Dev 1118
pull1D
Entries 45
Mean −0.00314
Std Dev 0.5259

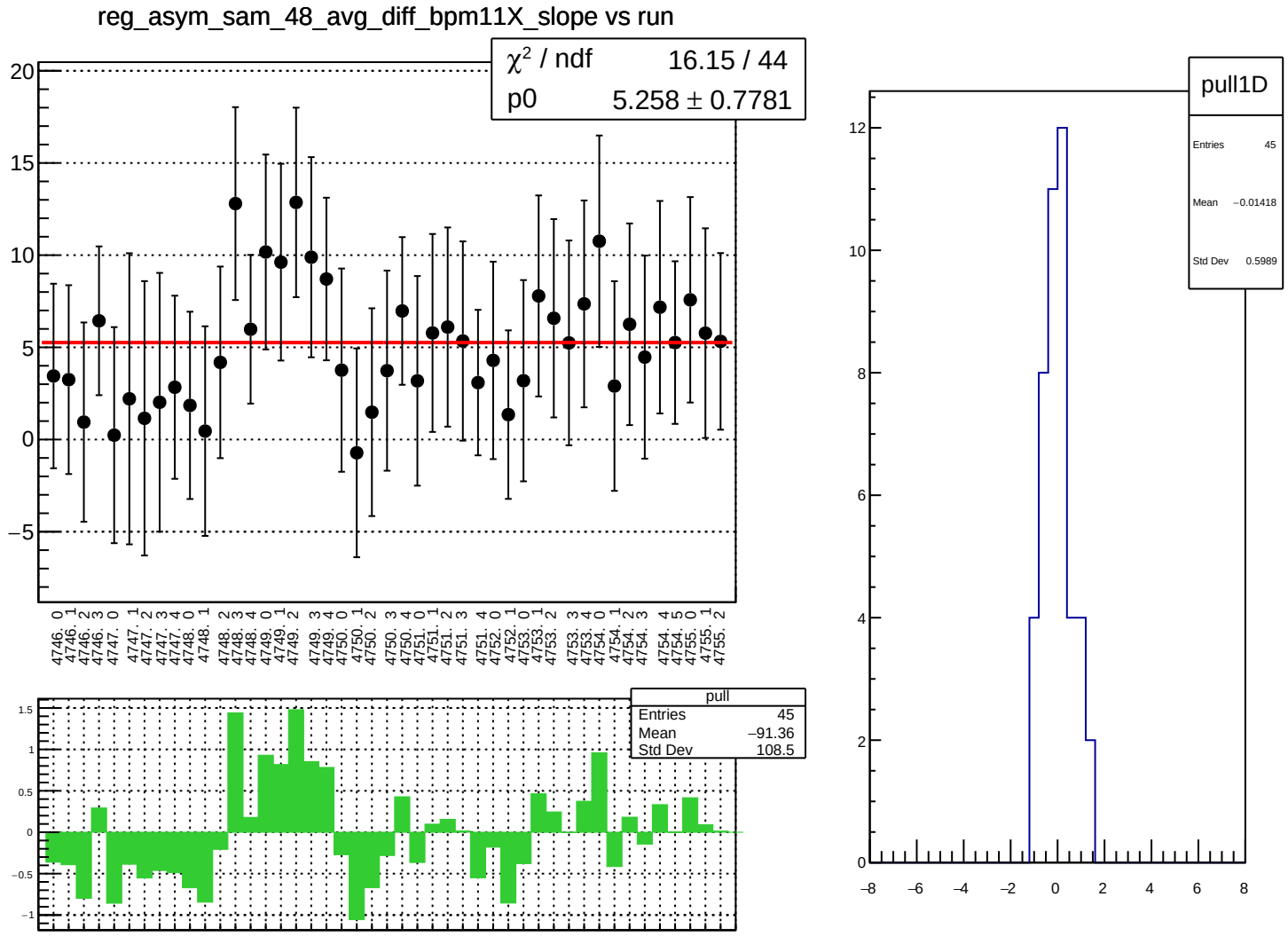

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 25.83 / 44
p0 92.68 ± 2.507
140
120
100
80
60
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −8.05
Std Dev 19.12
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.04007
Std Dev 0.7566
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

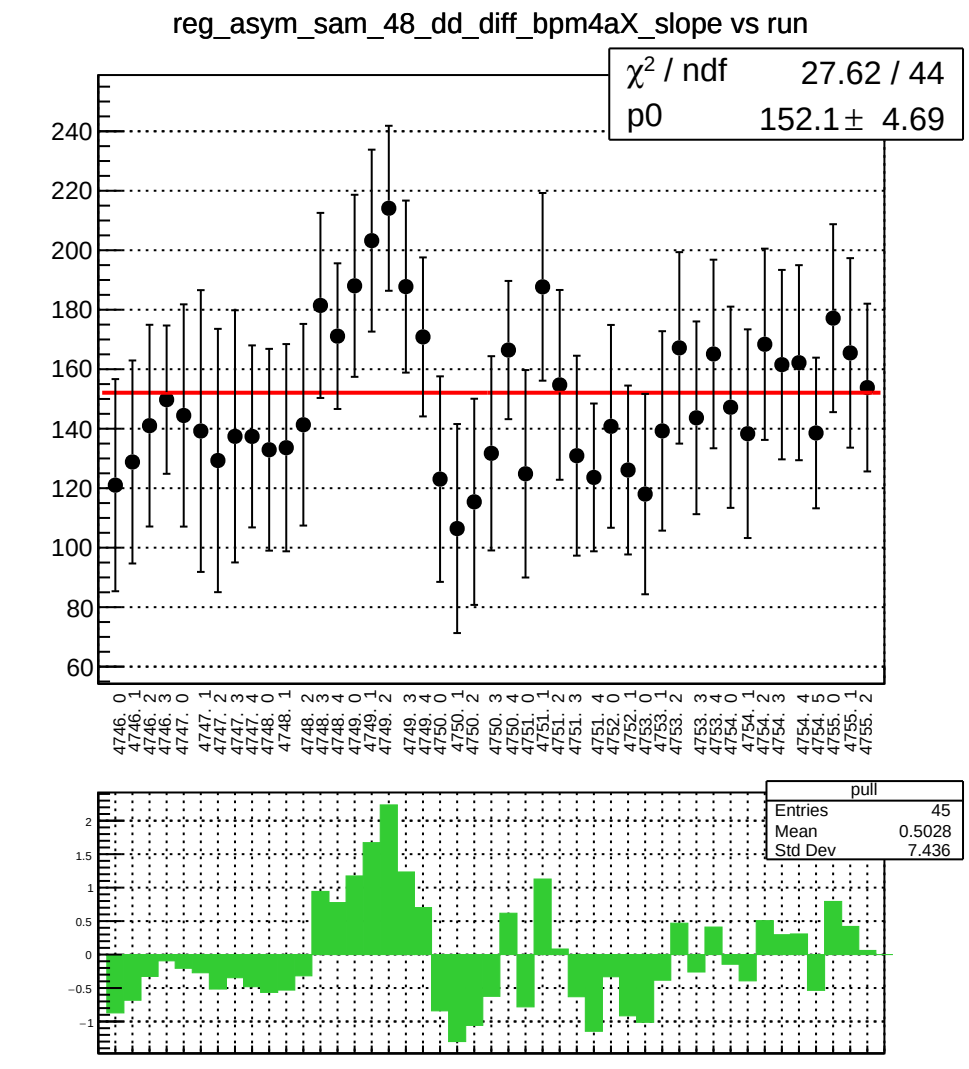

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.102 / 44
p0 −12.46 ± 3.13
pull
Entries 45
Mean −105.8
Std Dev 125.3
pull1D
Entries 45
Mean 0.004949
Std Dev 0.3972

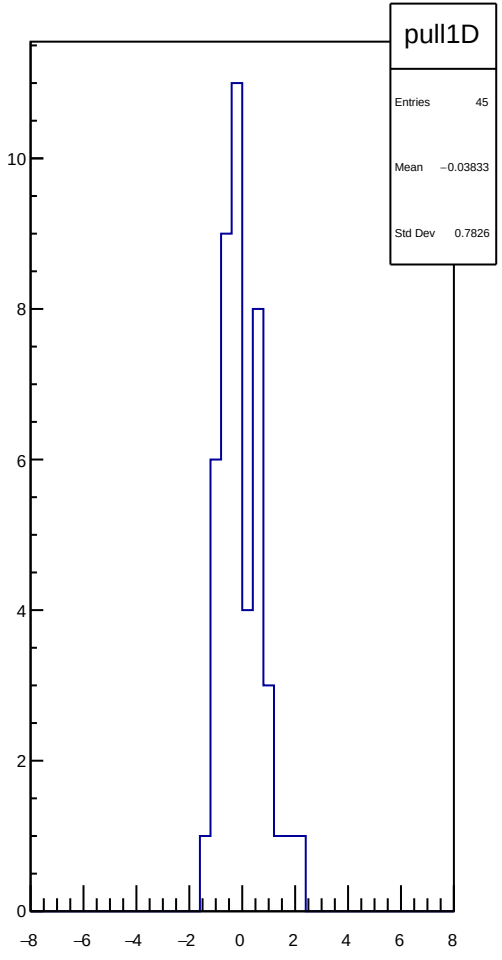

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.23 / 44
p0 −158.7 ± 0.5031
pull
Entries 45
Mean 32.12
Std Dev 43.52

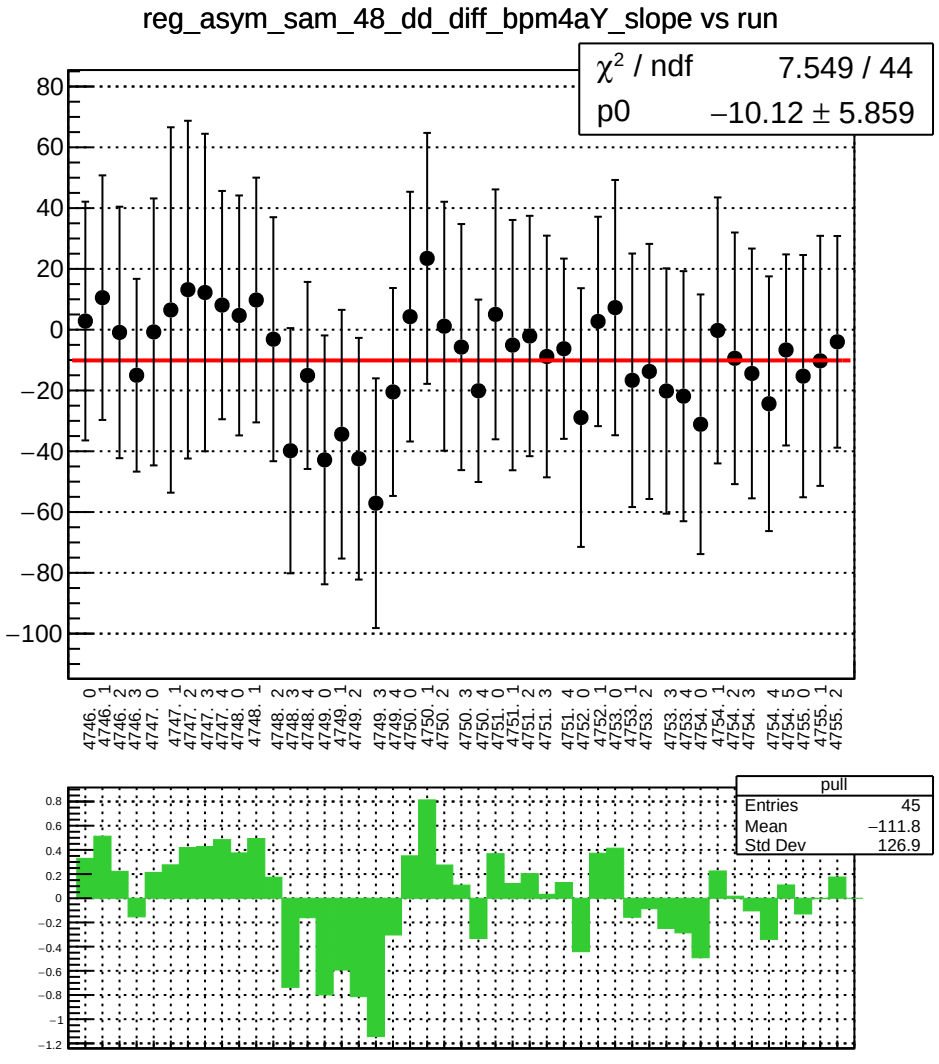

pull1D
Entries 45
Mean −0.02644
Std Dev 0.8326

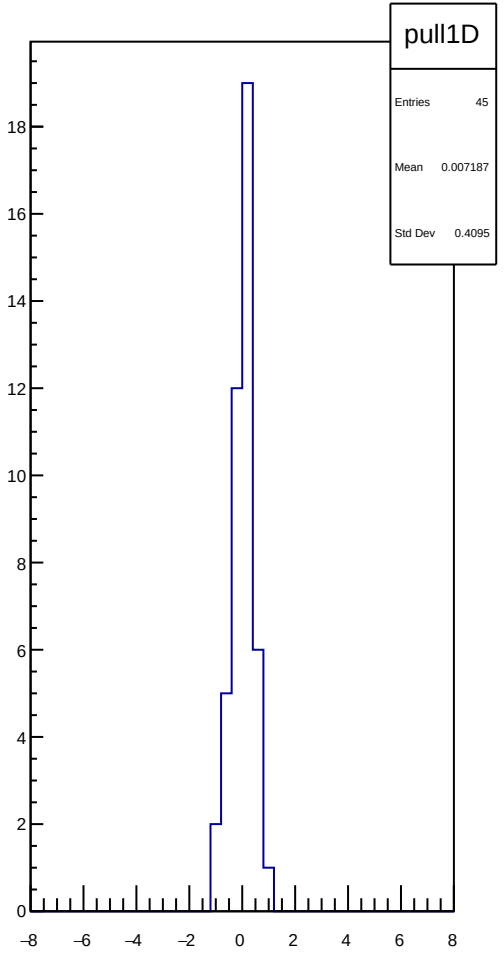

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.573 / 44
p0 86.48 ± 3.642
120
100
80
60
40
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −105.7
Std Dev 122
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 45
Mean 0.001022
Std Dev 0.2391
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

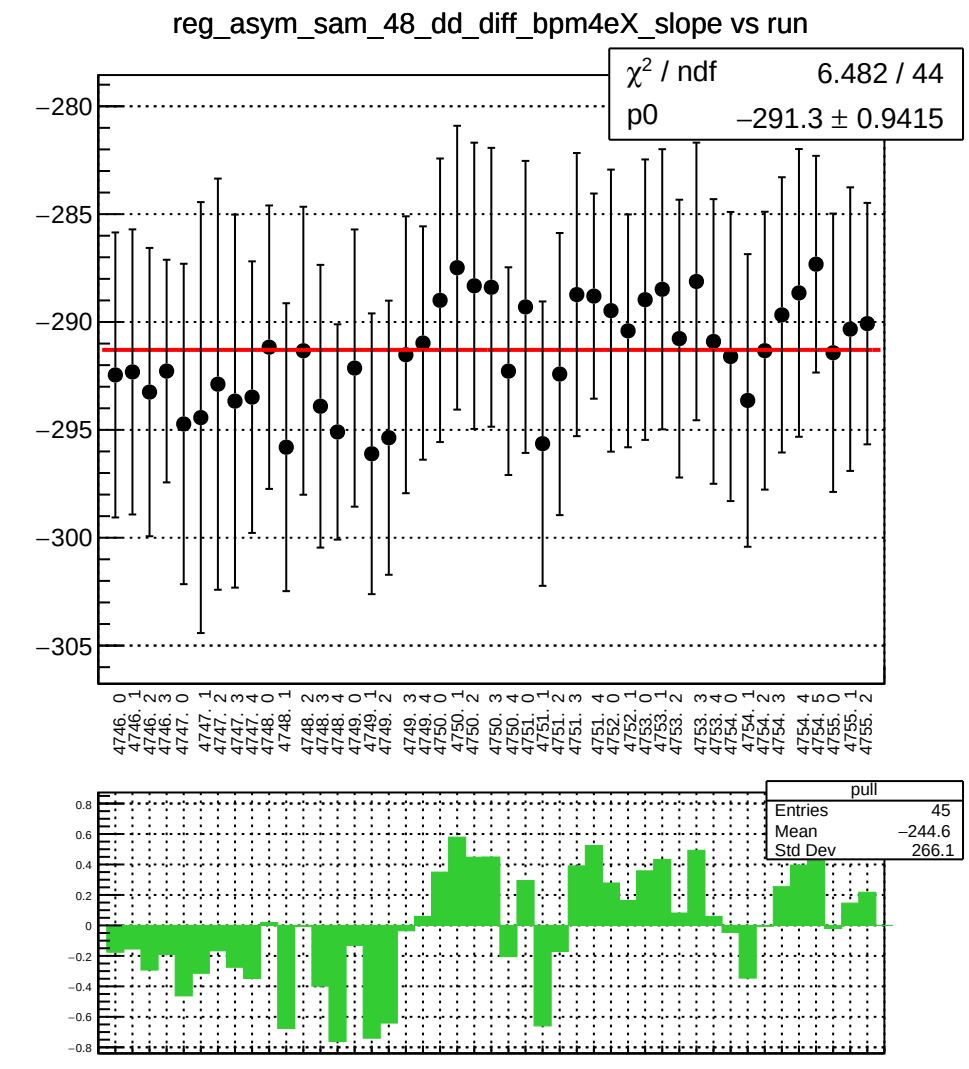

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 16.15 / 44
p0 5.258 ± 0.7781
pull
Entries 45
Mean −91.36
Std Dev 108.5
pull1D
Entries 45
Mean −0.01418
Std Dev 0.5989

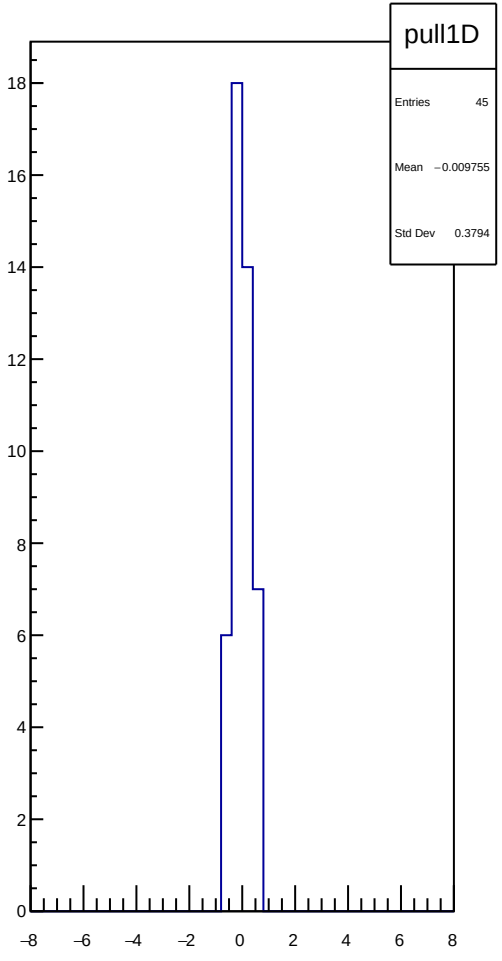

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 27.62 / 44
p0 152.1 ± 4.69
240
220
200
180
160
140
120
100
80
60
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 0.5028
Std Dev 7.436
2
1.5
1
0.5
0
−0.5
−1

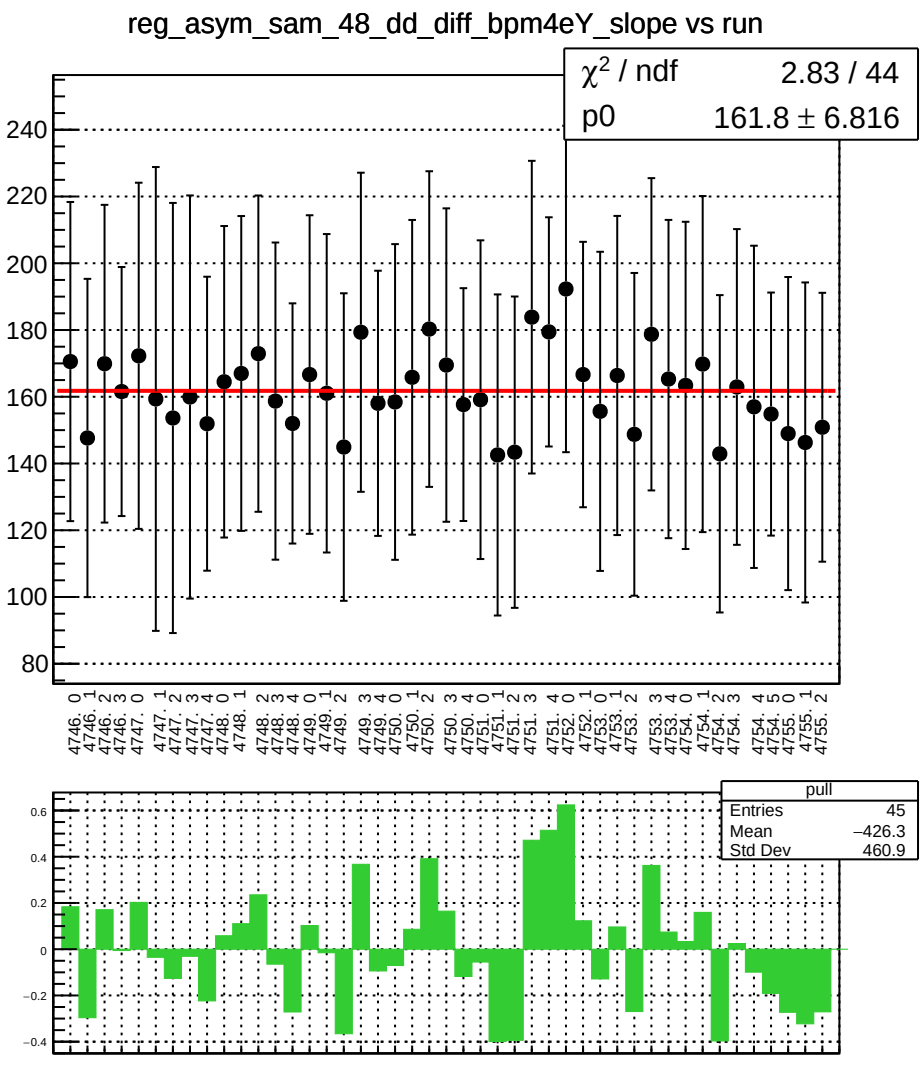

pull1D
Entries 45
Mean −0.03833
Std Dev 0.7826
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

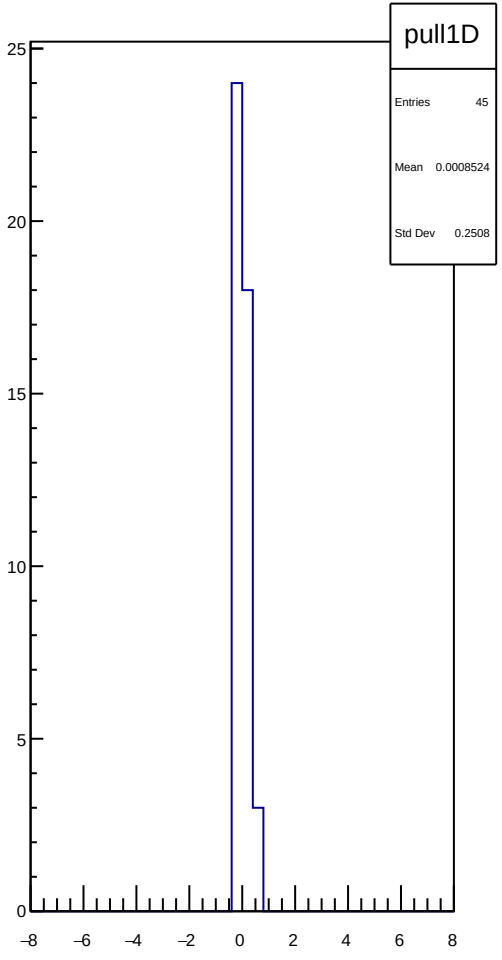

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.549 / 44
p0 −10.12 ± 5.859
pull
Entries 45
Mean −111.8
Std Dev 126.9

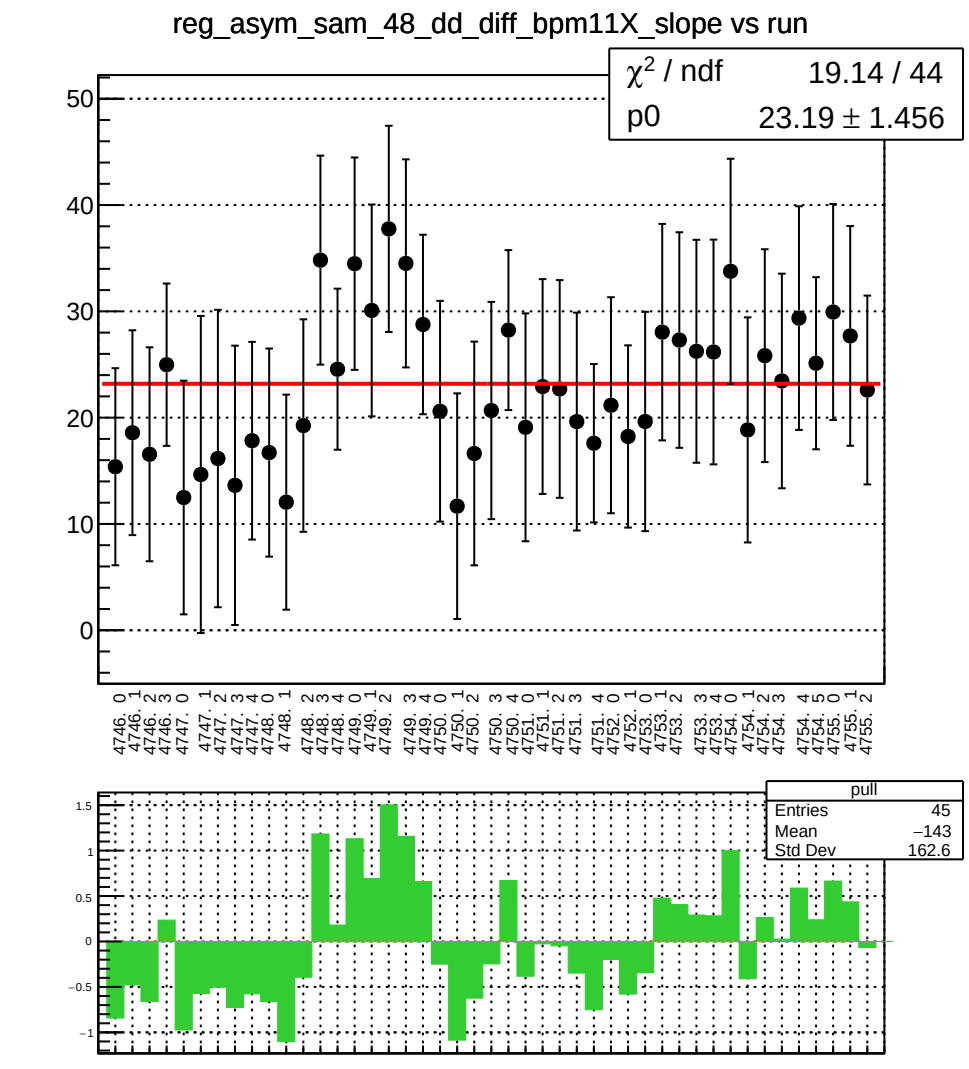

pull1D
Entries 45
Mean 0.007187
Std Dev 0.4095

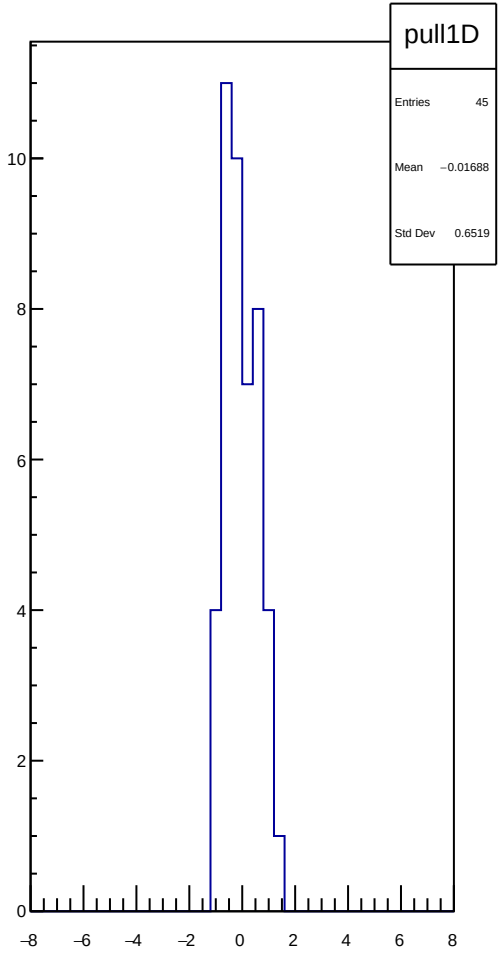

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.482 / 44
p0 −291.3 ± 0.9415
pull
Entries 45
Mean −244.6
Std Dev 266.1

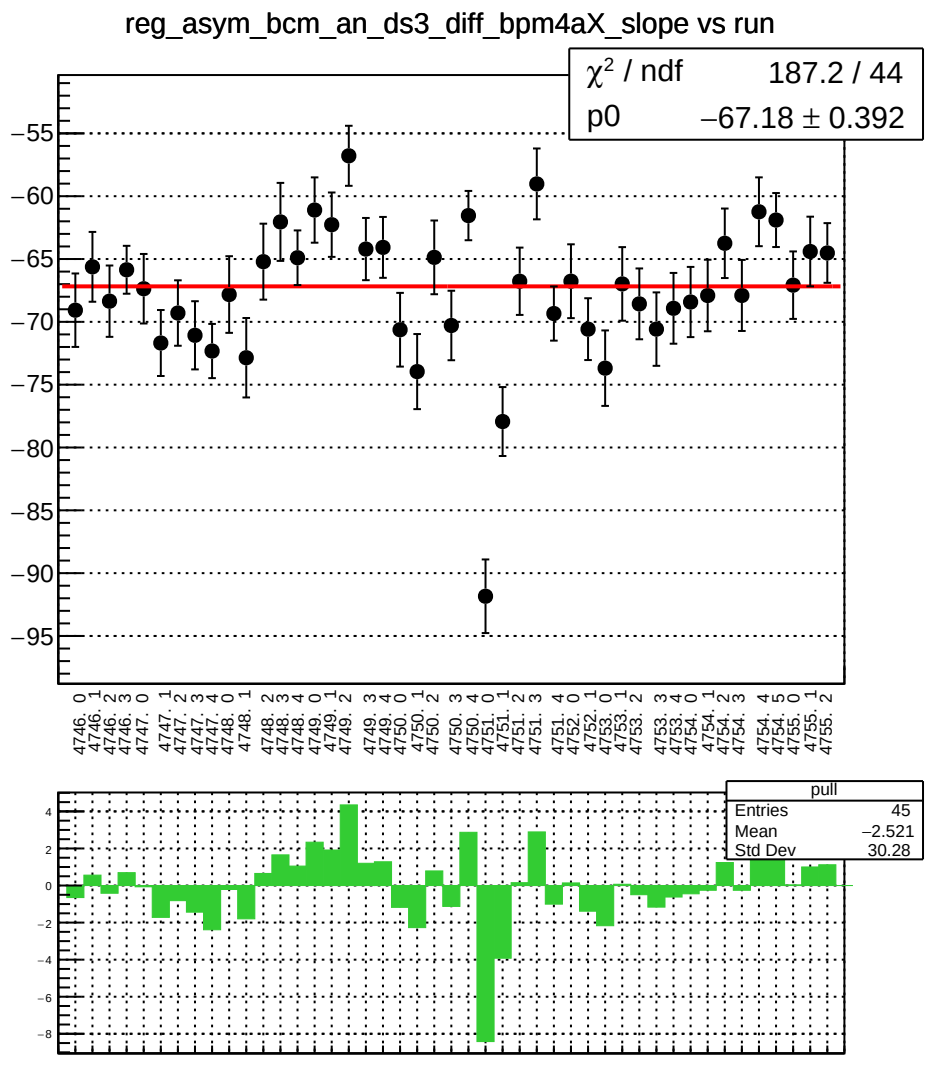

pull1D
Entries 45
Mean −0.009755
Std Dev 0.3794

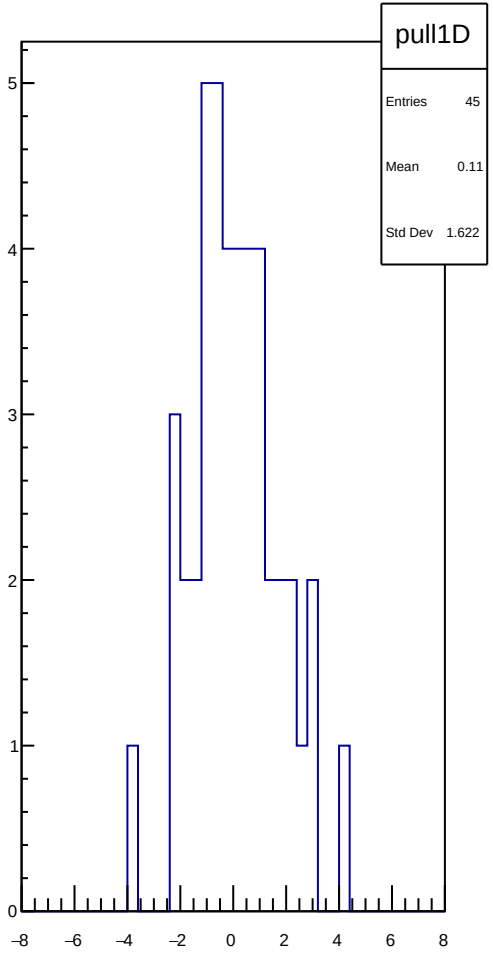

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.83 / 44
p0 161.8 ± 6.816
240
220
200
180
160
140
120
100
80
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −426.3
Std Dev 460.9
0.6
0.4
0.2
0
−0.2
−0.4

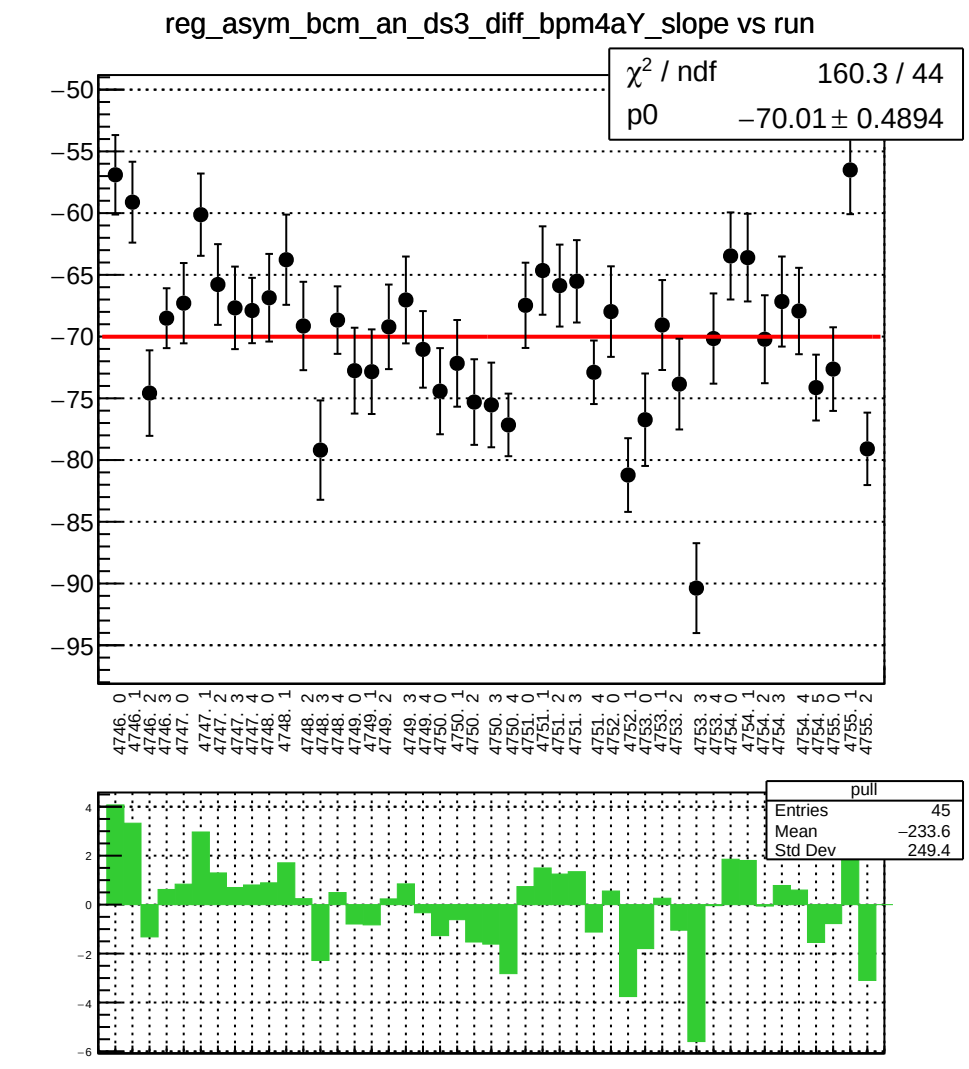

pull1D
Entries 45
Mean 0.0008524
Std Dev 0.2508
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

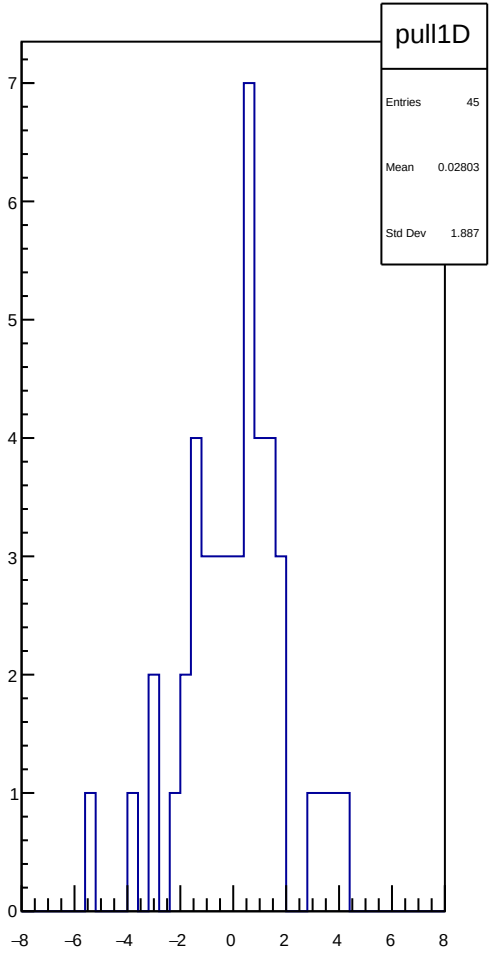

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 19.14 / 44
p0 23.19 ± 1.456
pull
Entries 45
Mean −143
Std Dev 162.6

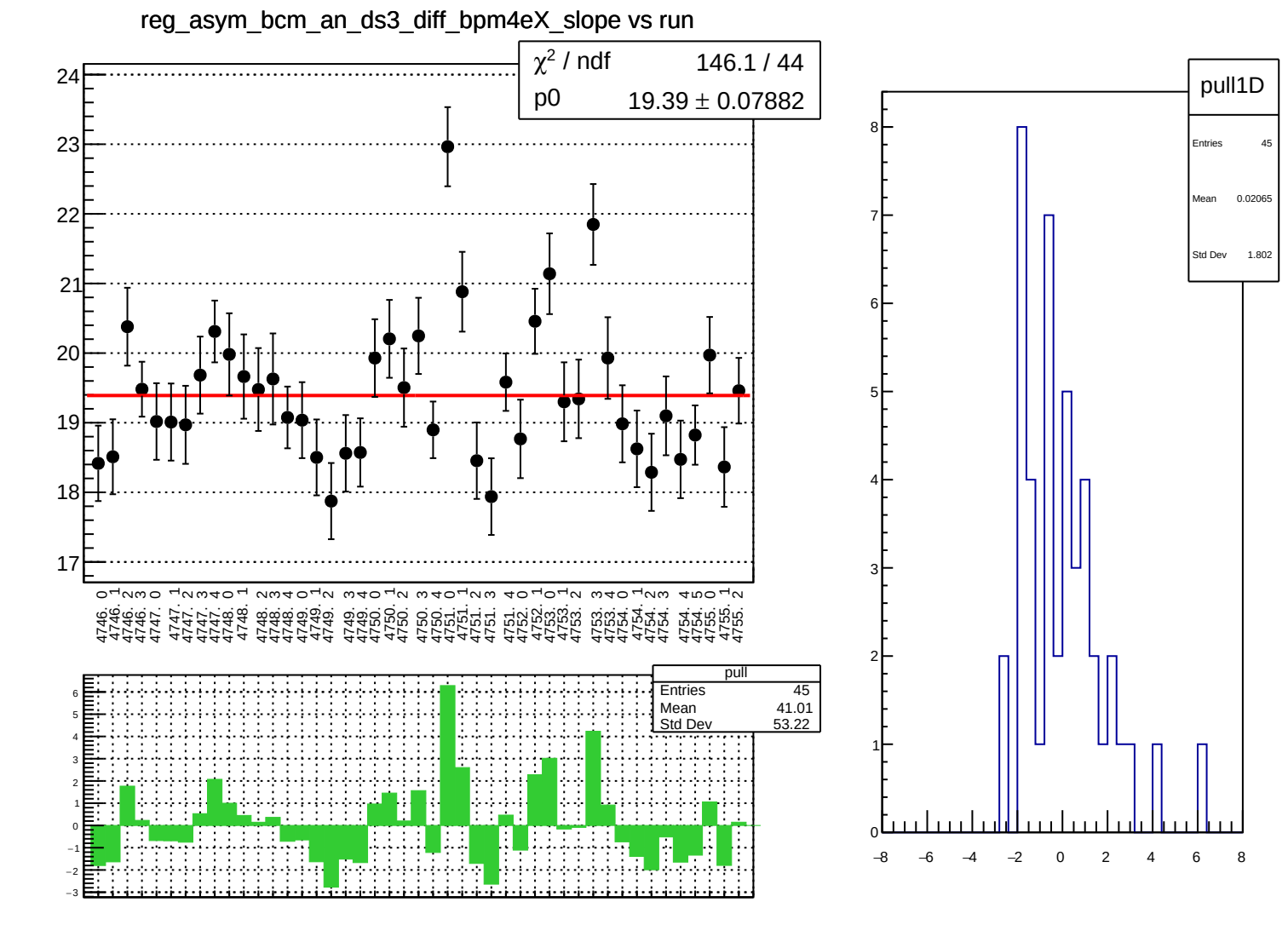

pull1D
Entries 45
Mean −0.01688
Std Dev 0.6519

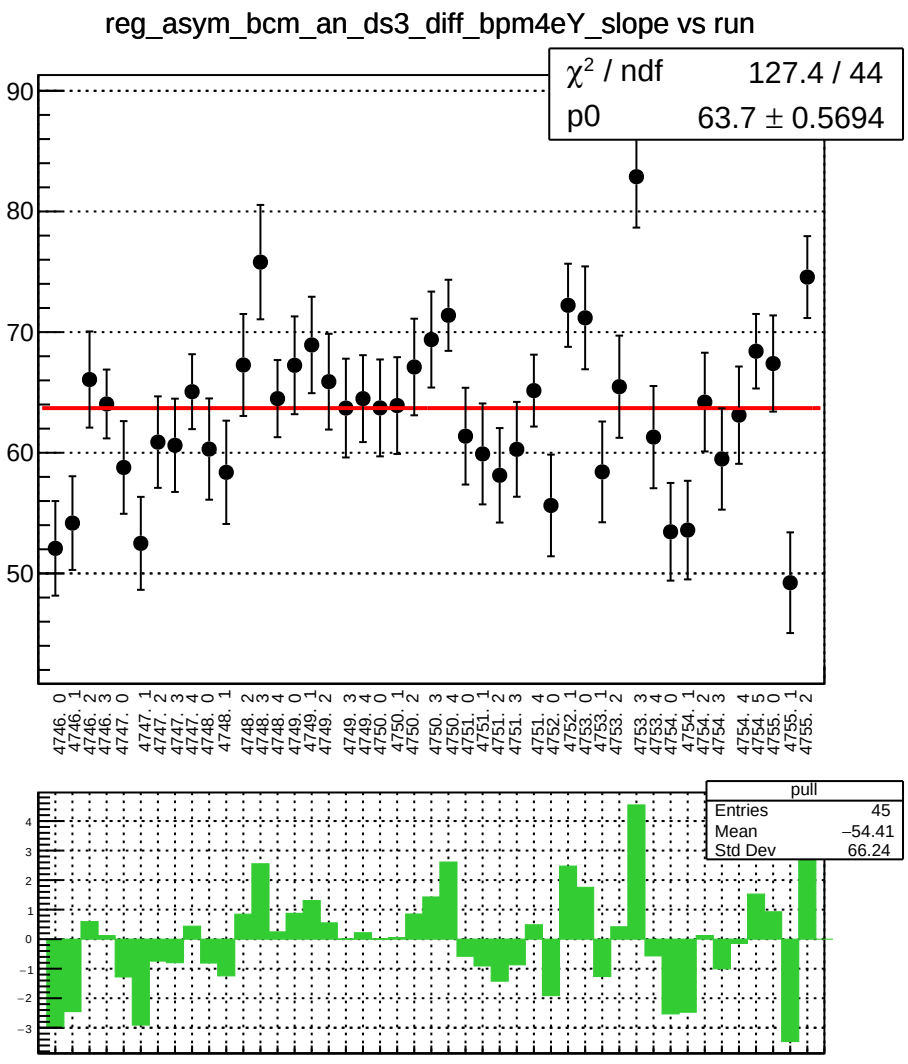

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 187.2 / 44
p0 −67.18 ± 0.392
pull
Entries 45
Mean −2.521
Std Dev 30.28

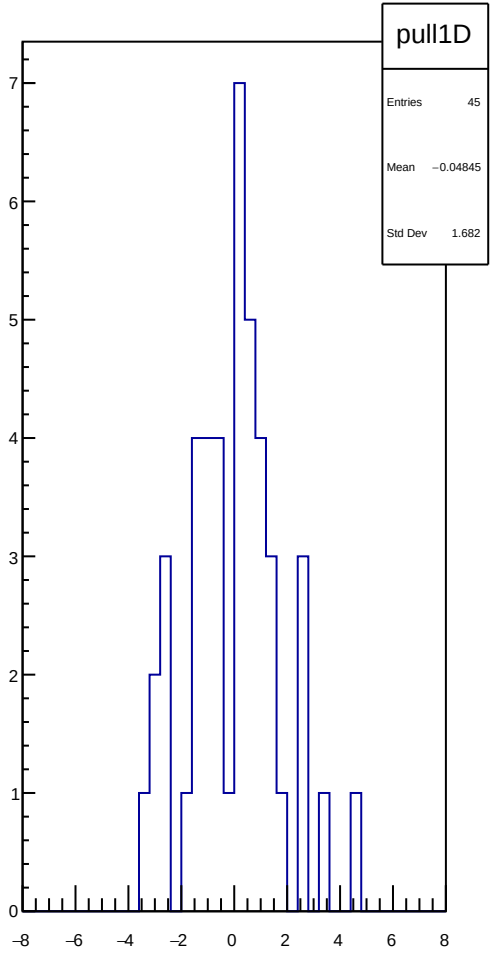

pull1D
Entries 45
Mean 0.11
Std Dev 1.622

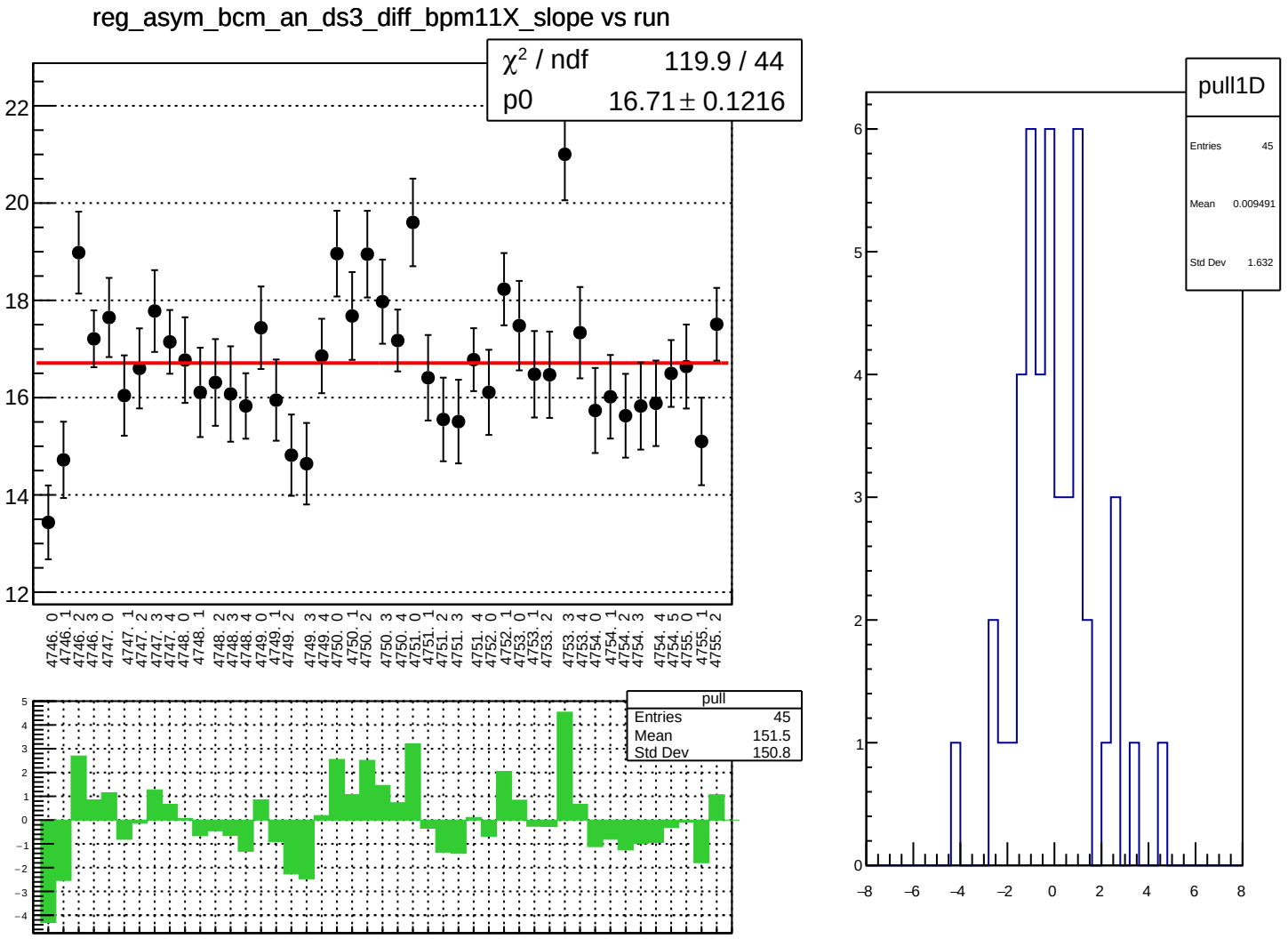

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 160.3 / 44
p0 −70.01 ± 0.4894
pull
Entries 45
Mean −233.6
Std Dev 249.4

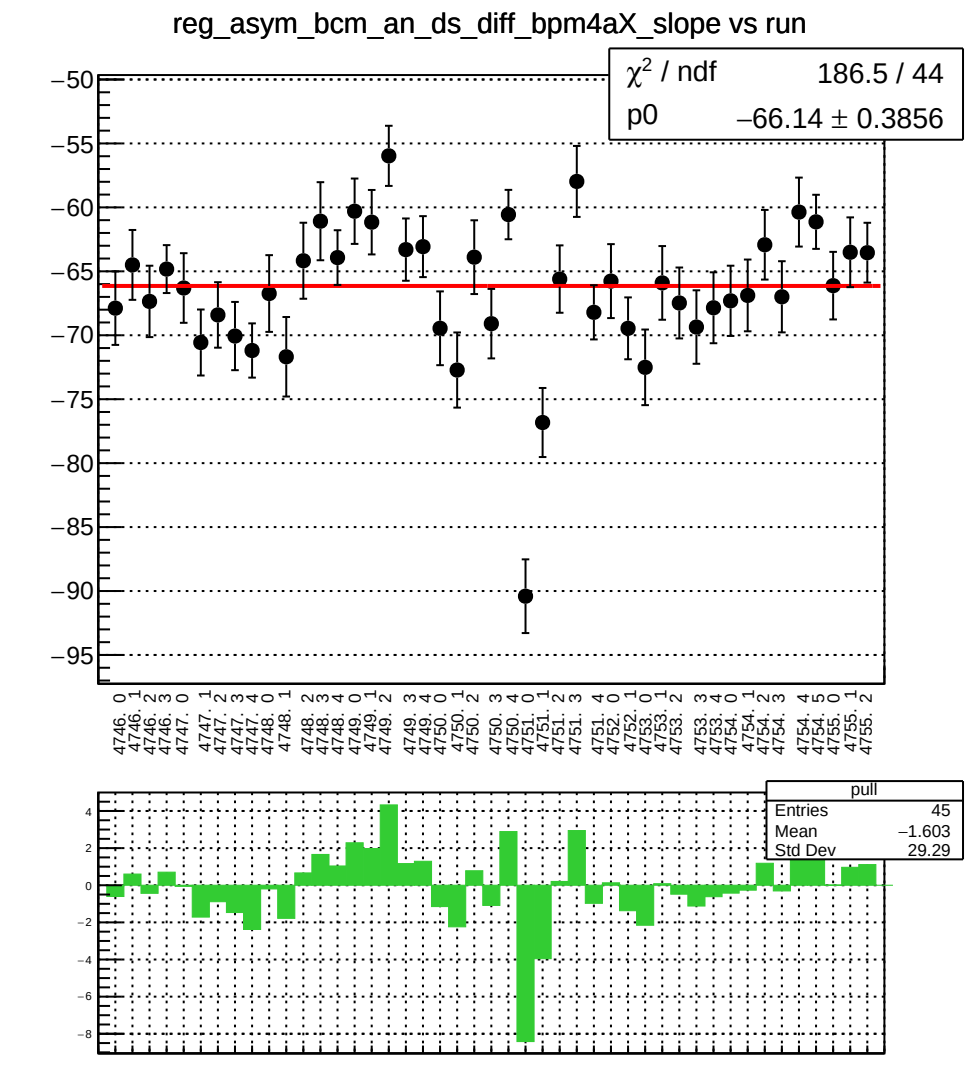

pull1D
Entries 45
Mean 0.02803
Std Dev 1.887

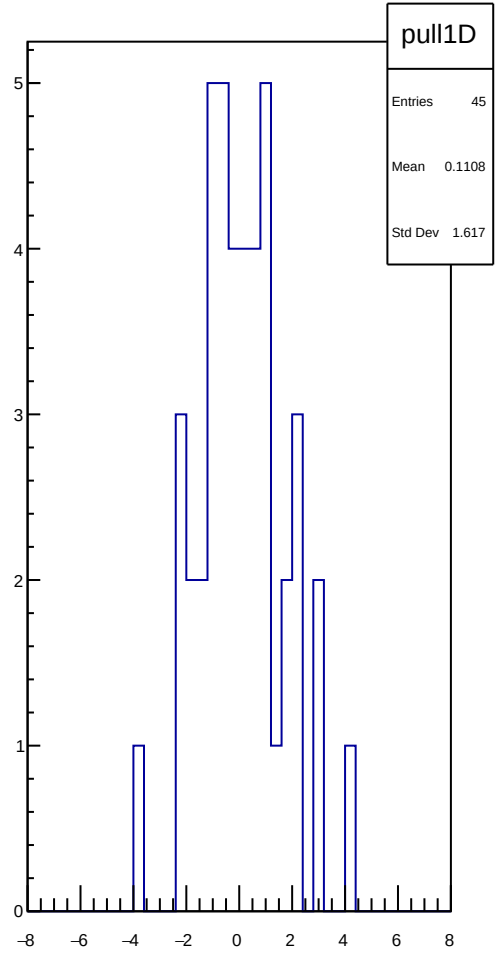

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 146.1 / 44
p0 19.39 ± 0.07882
pull
Entries 45
Mean 41.01
Std Dev 53.22
pull1D
Entries 45
Mean 0.02065
Std Dev 1.802

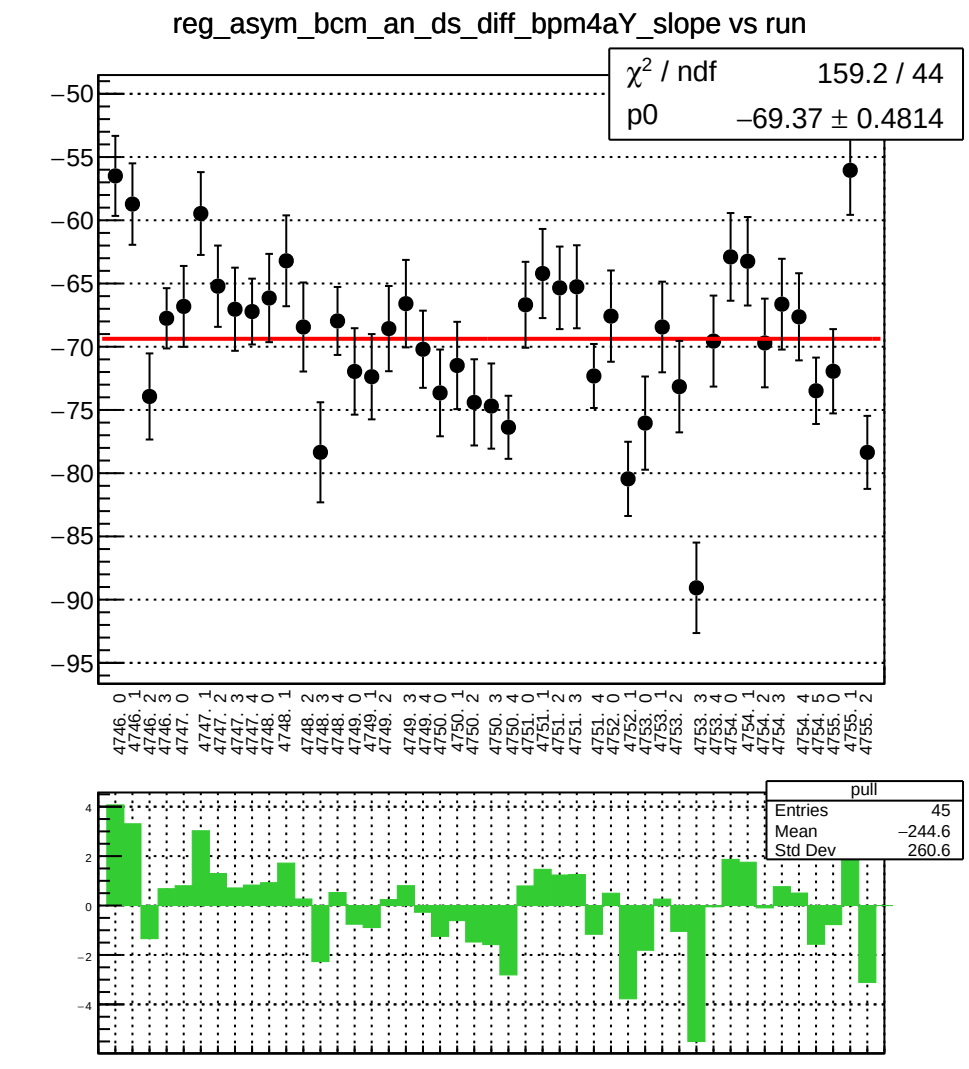

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 127.4 / 44
p0 63.7 ± 0.5694
pull
Entries 45
Mean −54.41
Std Dev 66.24

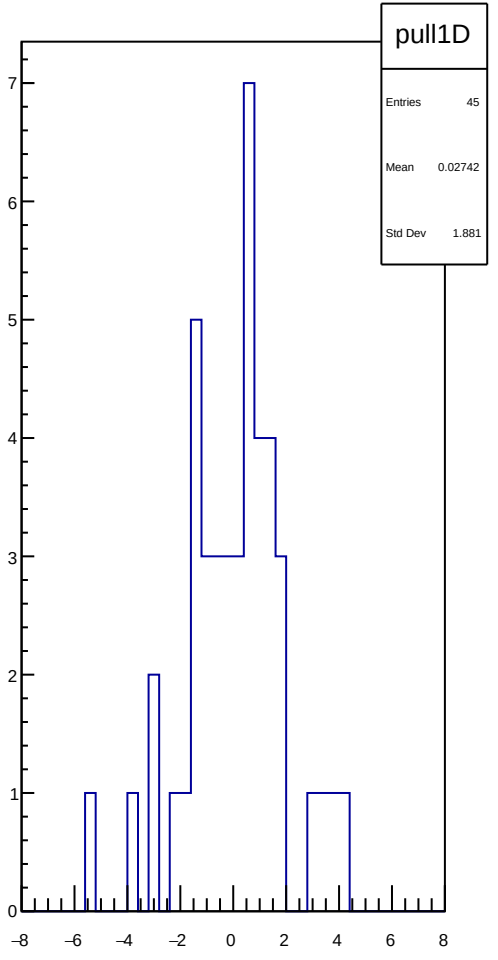

pull1D
Entries 45
Mean −0.04845
Std Dev 1.682

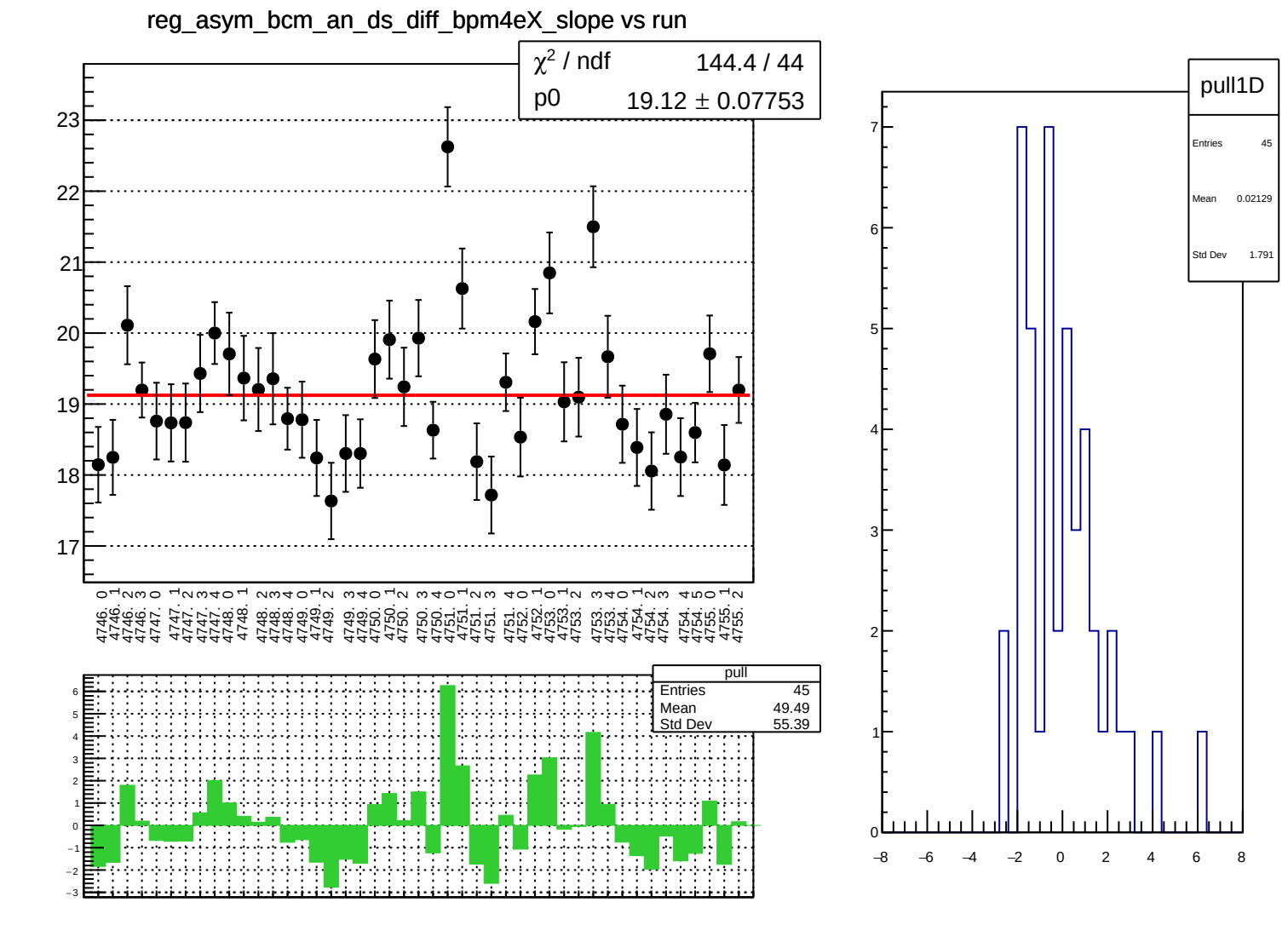

reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 119.9 / 44
p0 16.71 ± 0.1216
pull
Entries 45
Mean 151.5
Std Dev 150.8
pull1D
Entries 45
Mean 0.009491
Std Dev 1.632

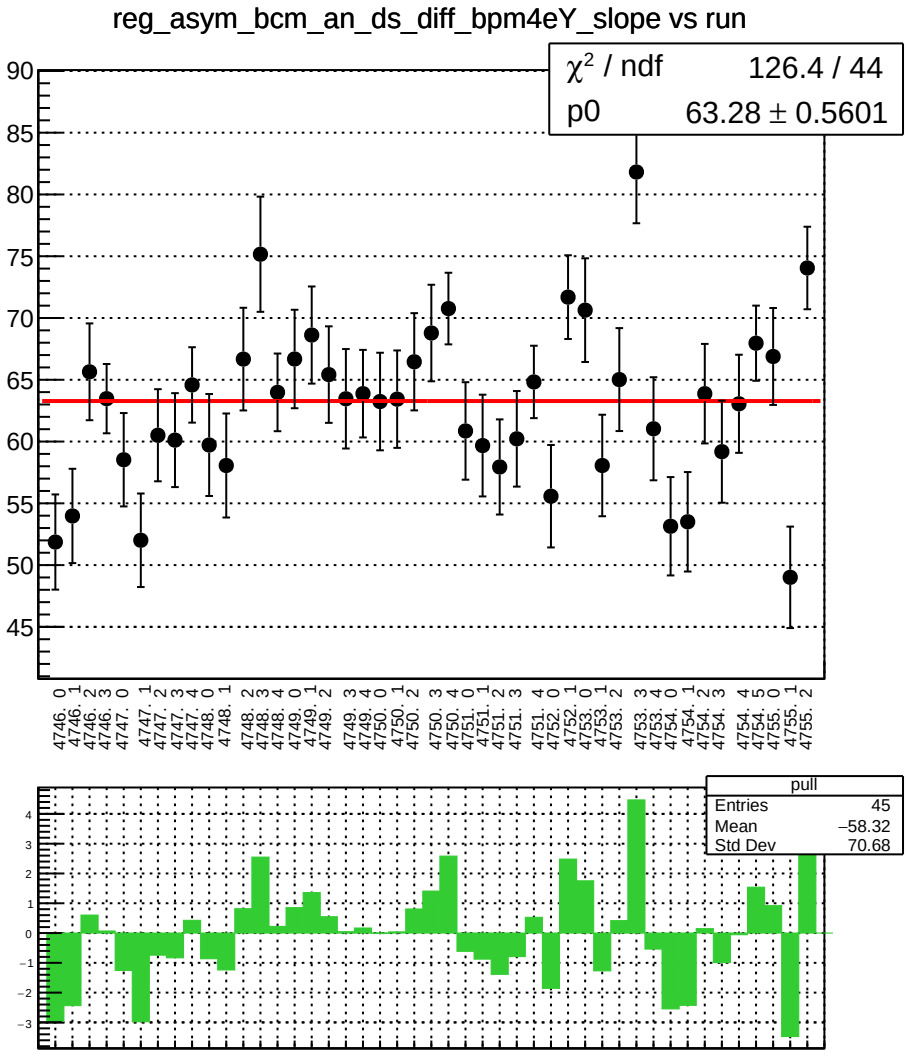

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 186.5 / 44
p0 −66.14 ± 0.3856
pull
Entries 45
Mean −1.603
Std Dev 29.29

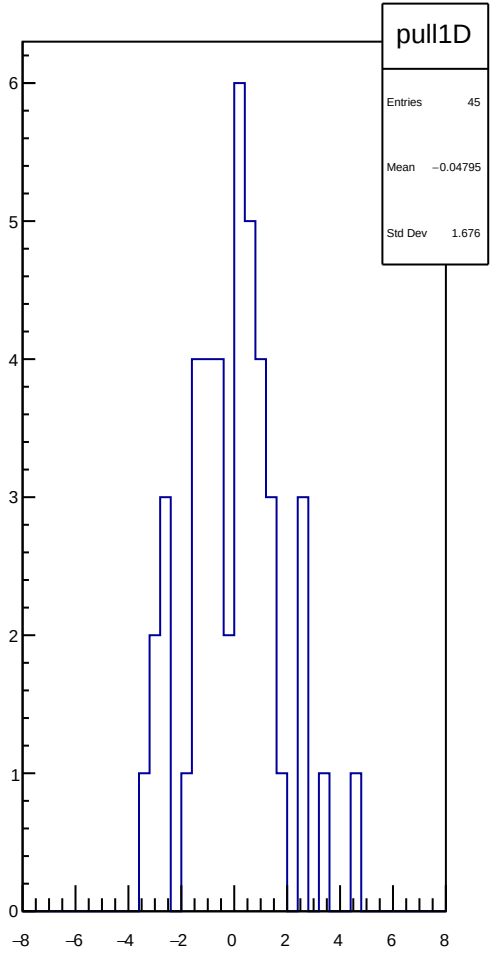

pull1D
Entries 45
Mean 0.1108
Std Dev 1.617

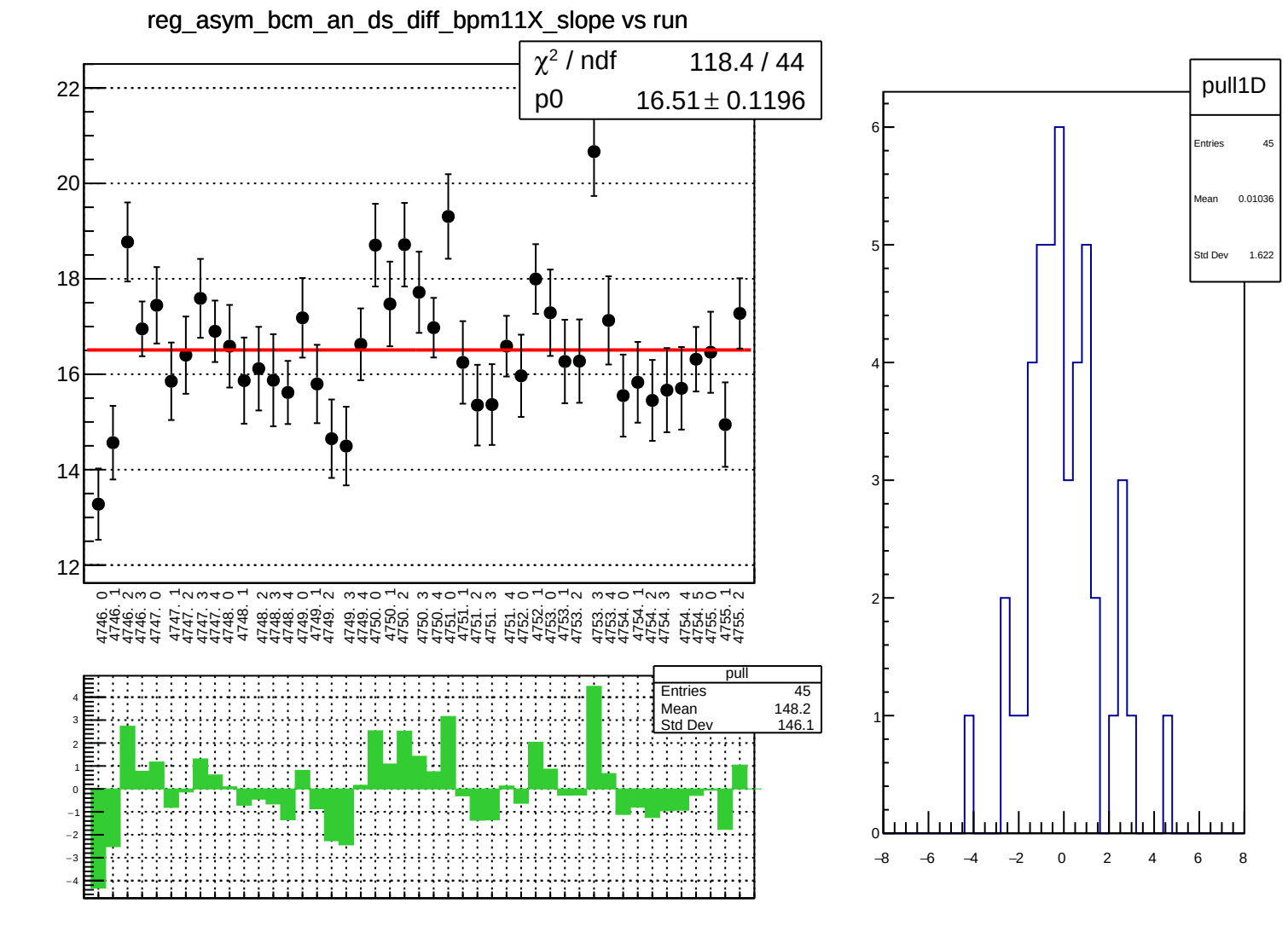

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 159.2 / 44
p0 −69.37 ± 0.4814
pull
Entries 45
Mean −244.6
Std Dev 260.6

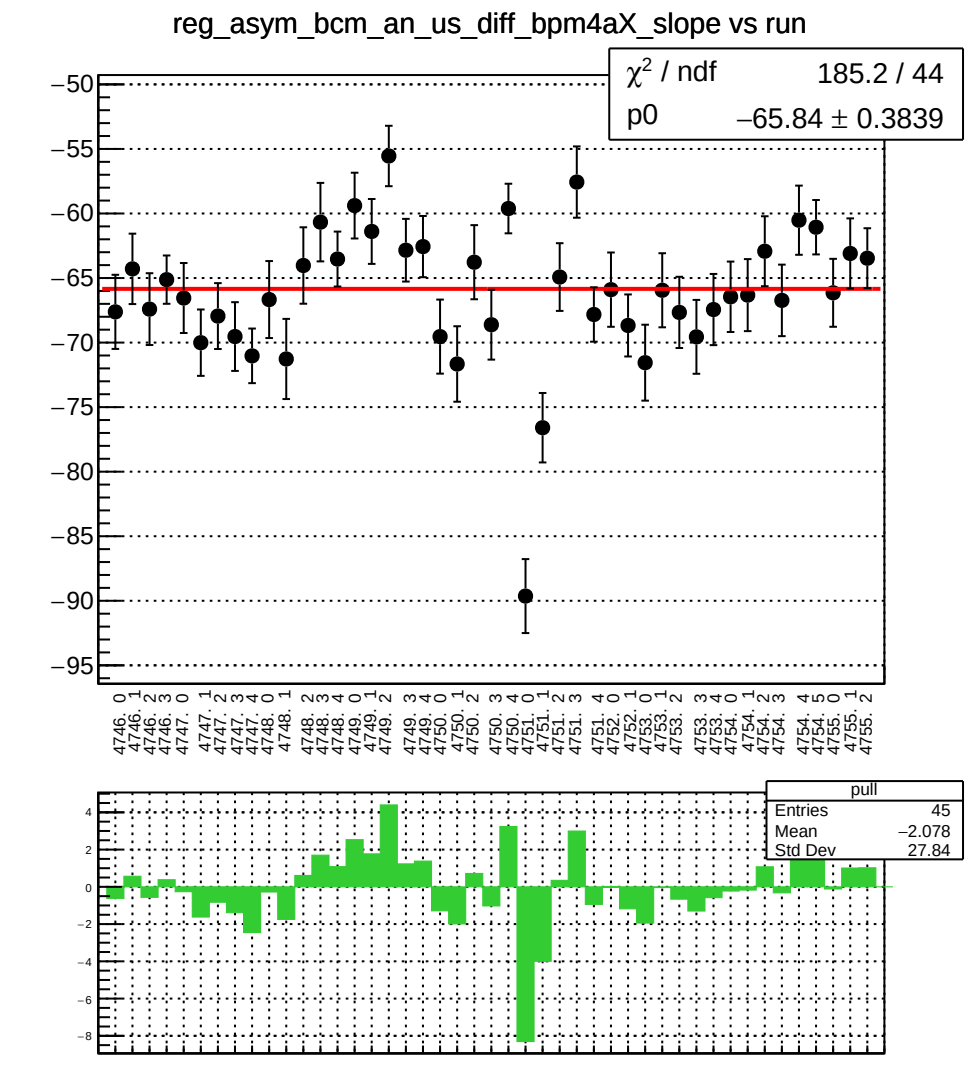

pull1D
Entries 45
Mean 0.02742
Std Dev 1.881

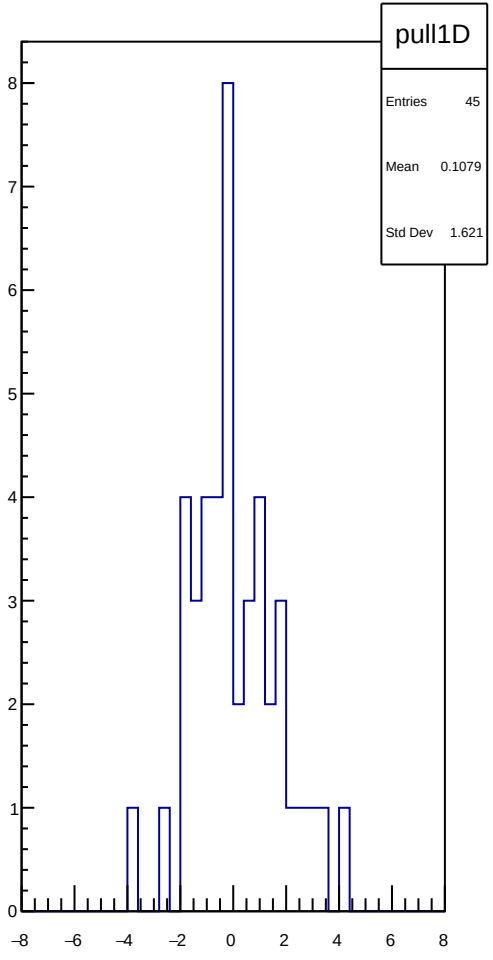

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 144.4 / 44
p0 19.12 ± 0.07753
pull
Entries 45
Mean 49.49
Std Dev 55.39
pull1D
Entries 45
Mean 0.02129
Std Dev 1.791

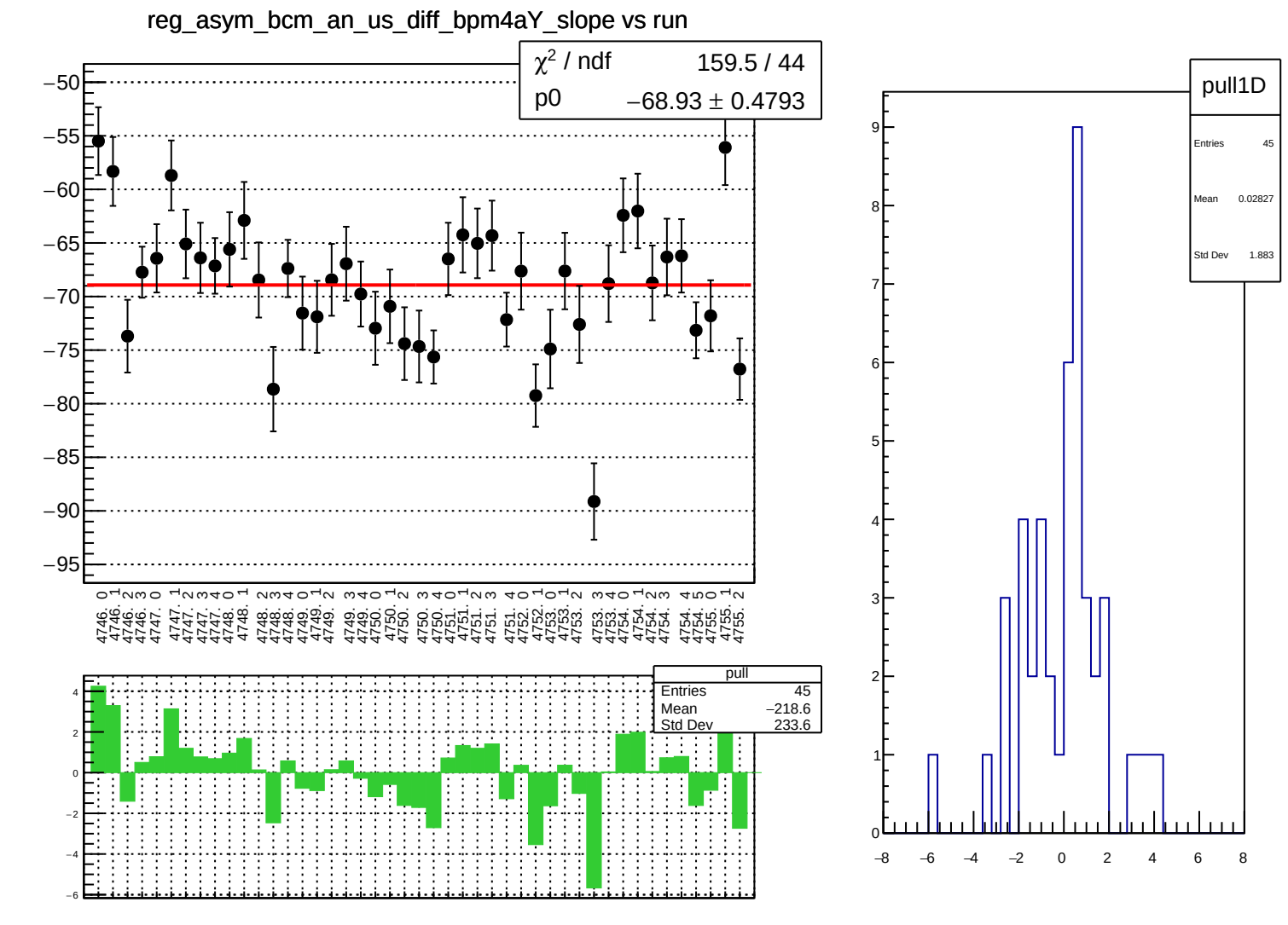

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 126.4 / 44
p0 63.28 ± 0.5601
pull
Entries 45
Mean −58.32
Std Dev 70.68

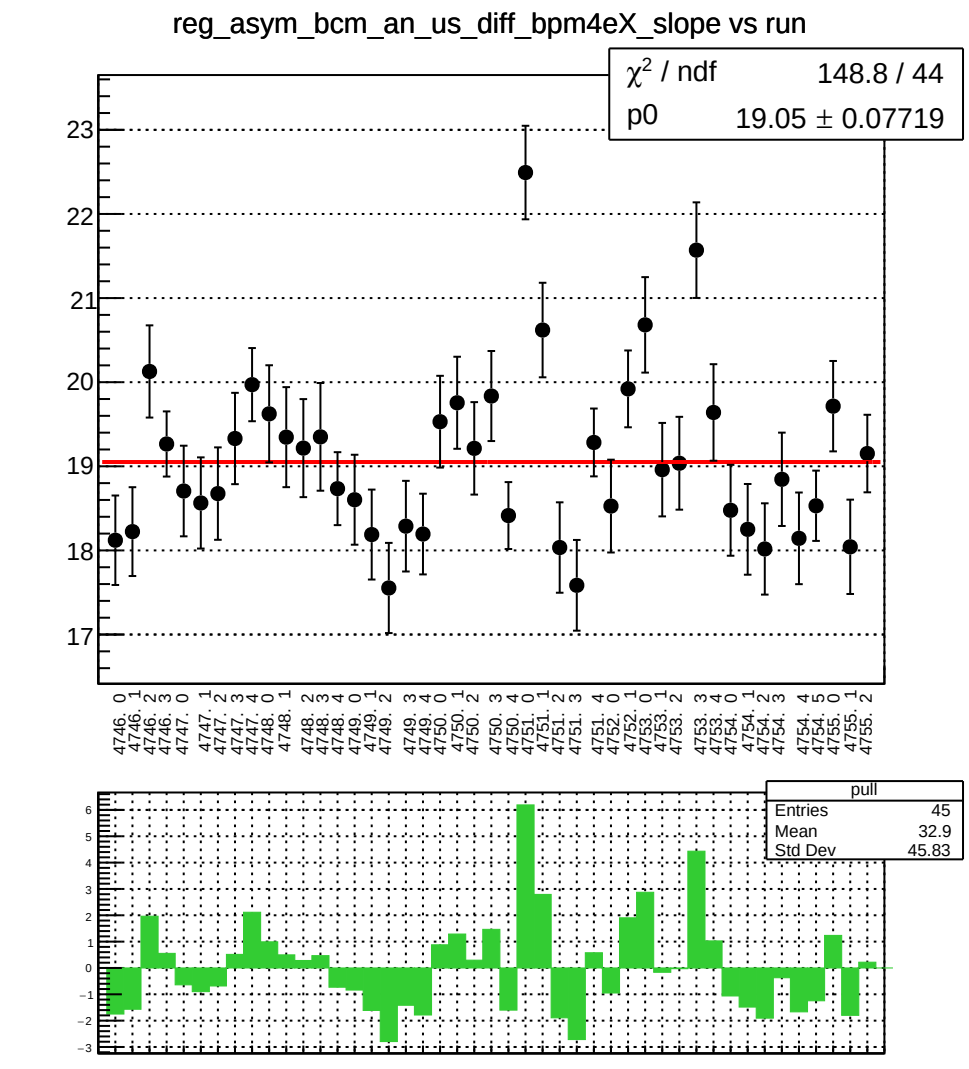

pull1D
Entries 45
Mean −0.04795
Std Dev 1.676

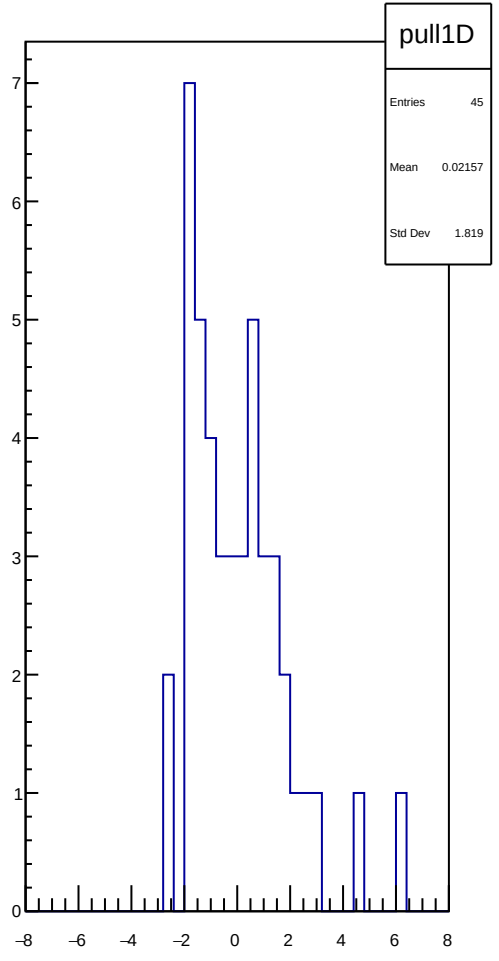

reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 118.4 / 44
p0 16.51 ± 0.1196
pull
Entries 45
Mean 148.2
Std Dev 146.1
pull1D
Entries 45
Mean 0.01036
Std Dev 1.622

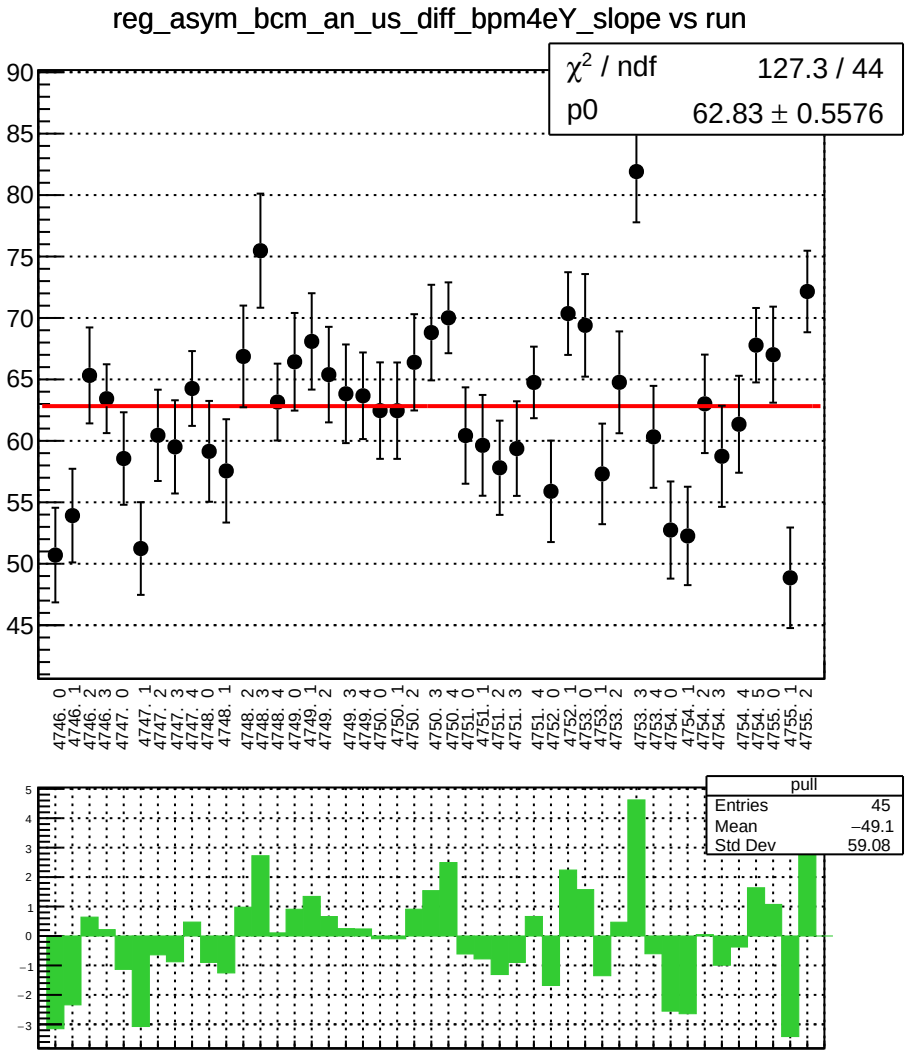

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 185.2 / 44
p0 −65.84 ± 0.3839
pull
Entries 45
Mean −2.078
Std Dev 27.84

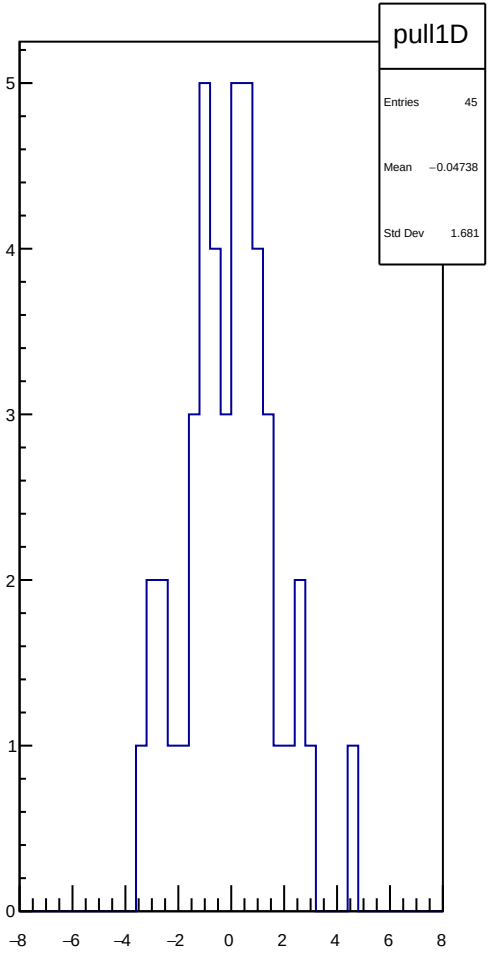

pull1D
Entries 45
Mean 0.1079
Std Dev 1.621

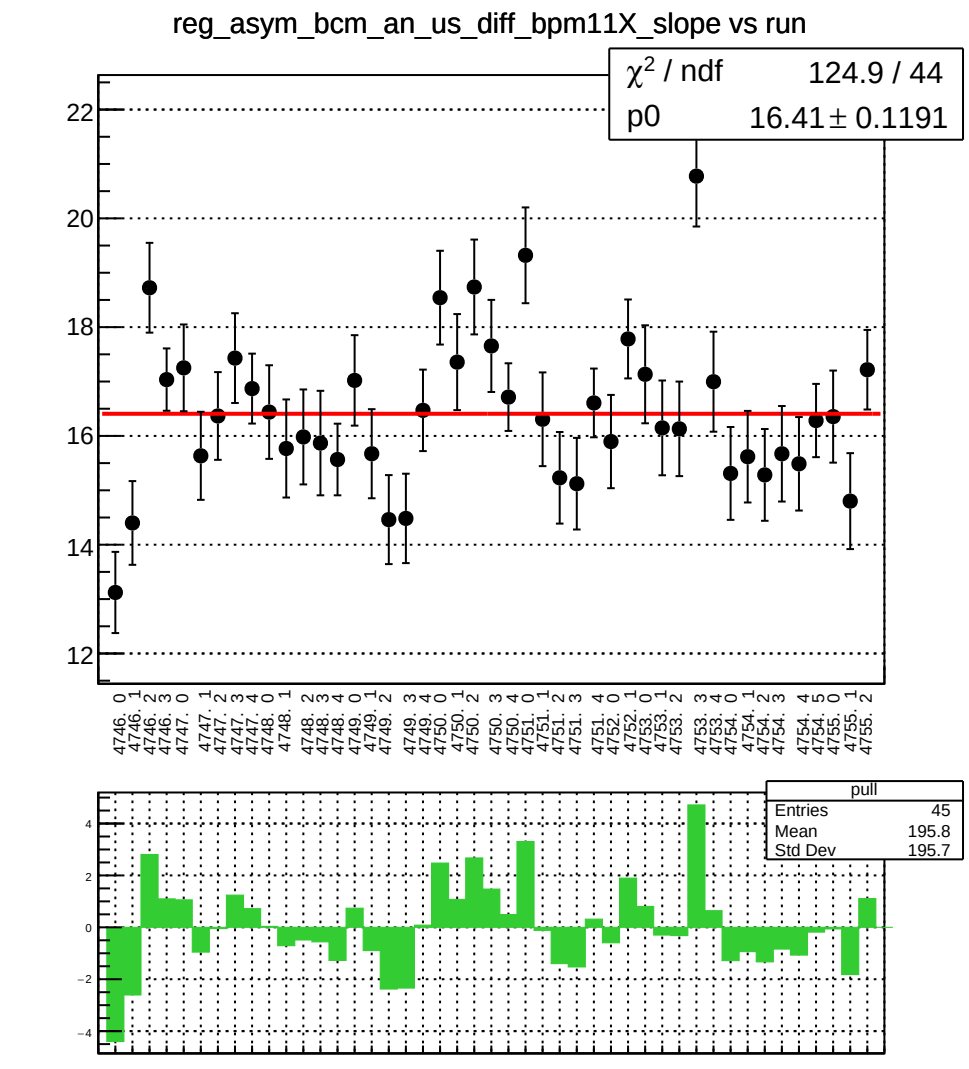

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 159.5 / 44
p0 −68.93 ± 0.4793
pull
Entries 45
Mean −218.6
Std Dev 233.6
pull1D
Entries 45
Mean 0.02827
Std Dev 1.883

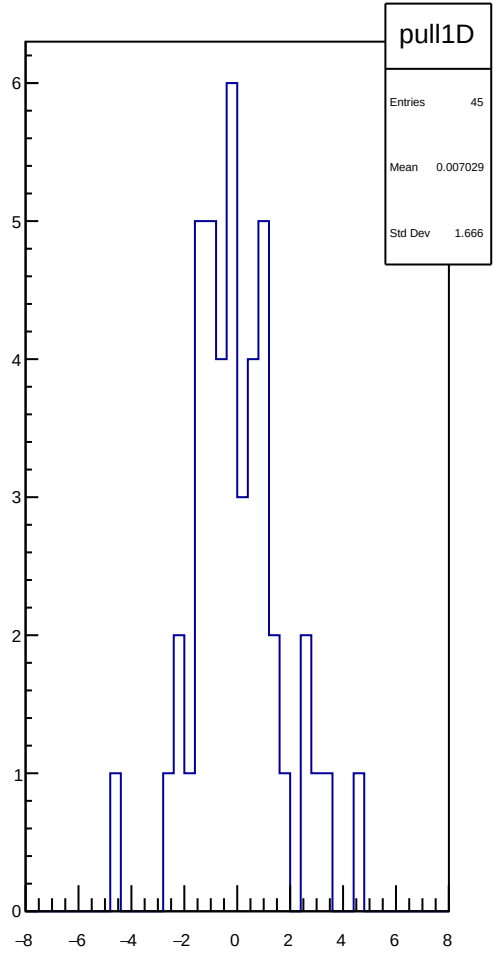

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 148.8 / 44
p0 19.05 ± 0.07719
pull
Entries 45
Mean 32.9
Std Dev 45.83

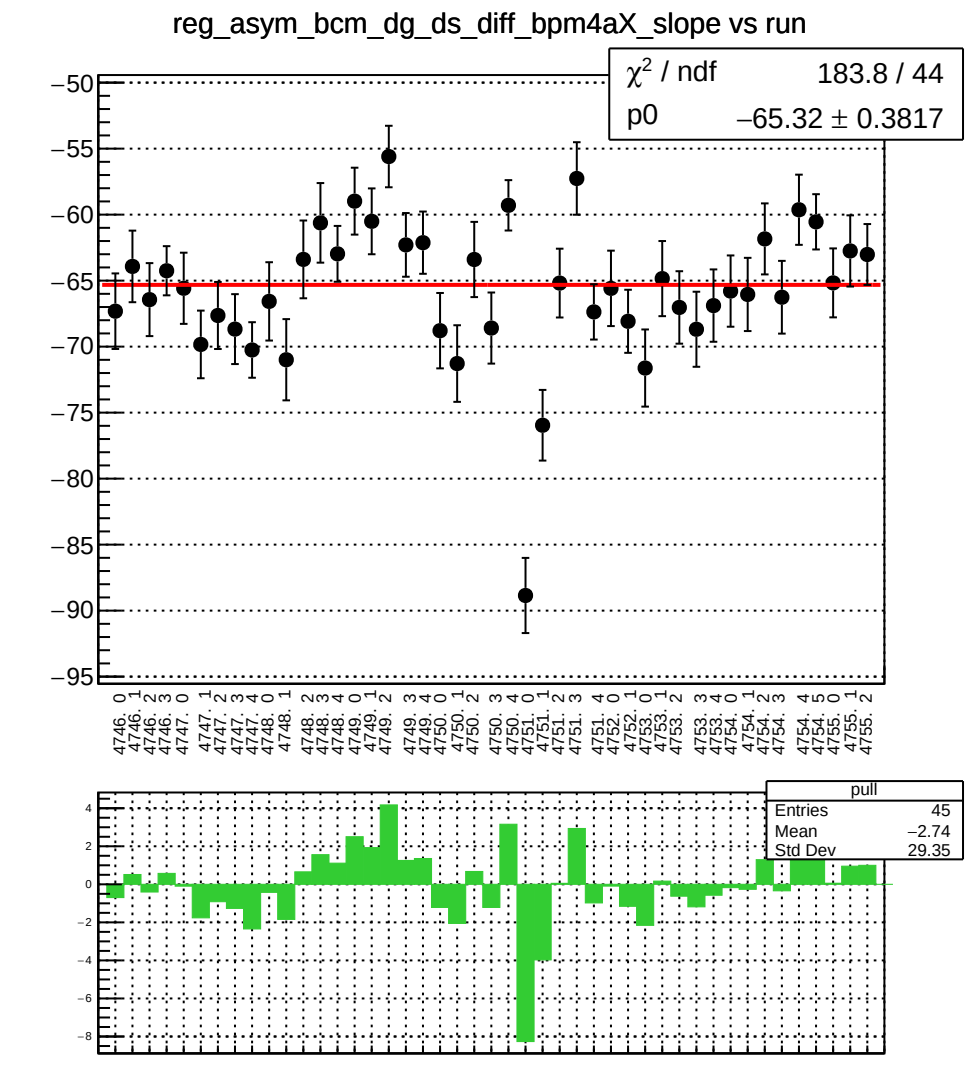

pull1D
Entries 45
Mean 0.02157
Std Dev 1.819

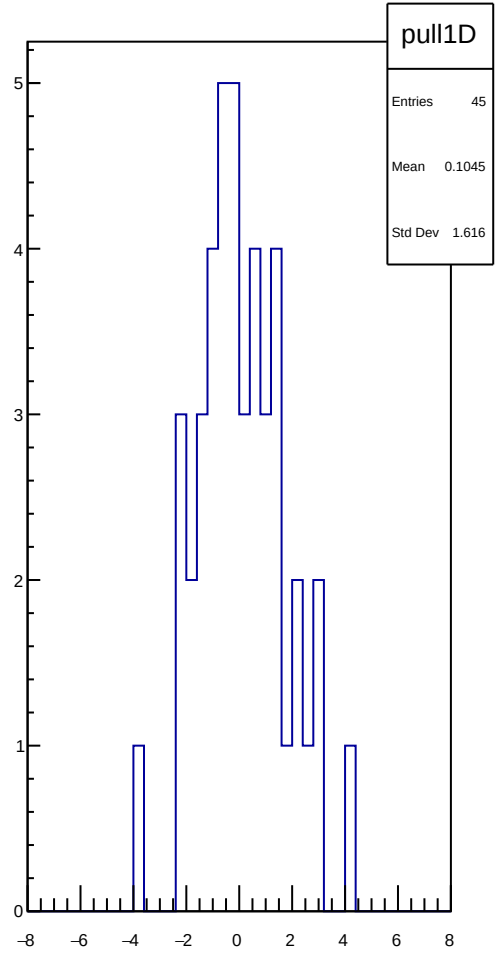

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 127.3 / 44
p0 62.83 ± 0.5576
pull
Entries 45
Mean −49.1
Std Dev 59.08

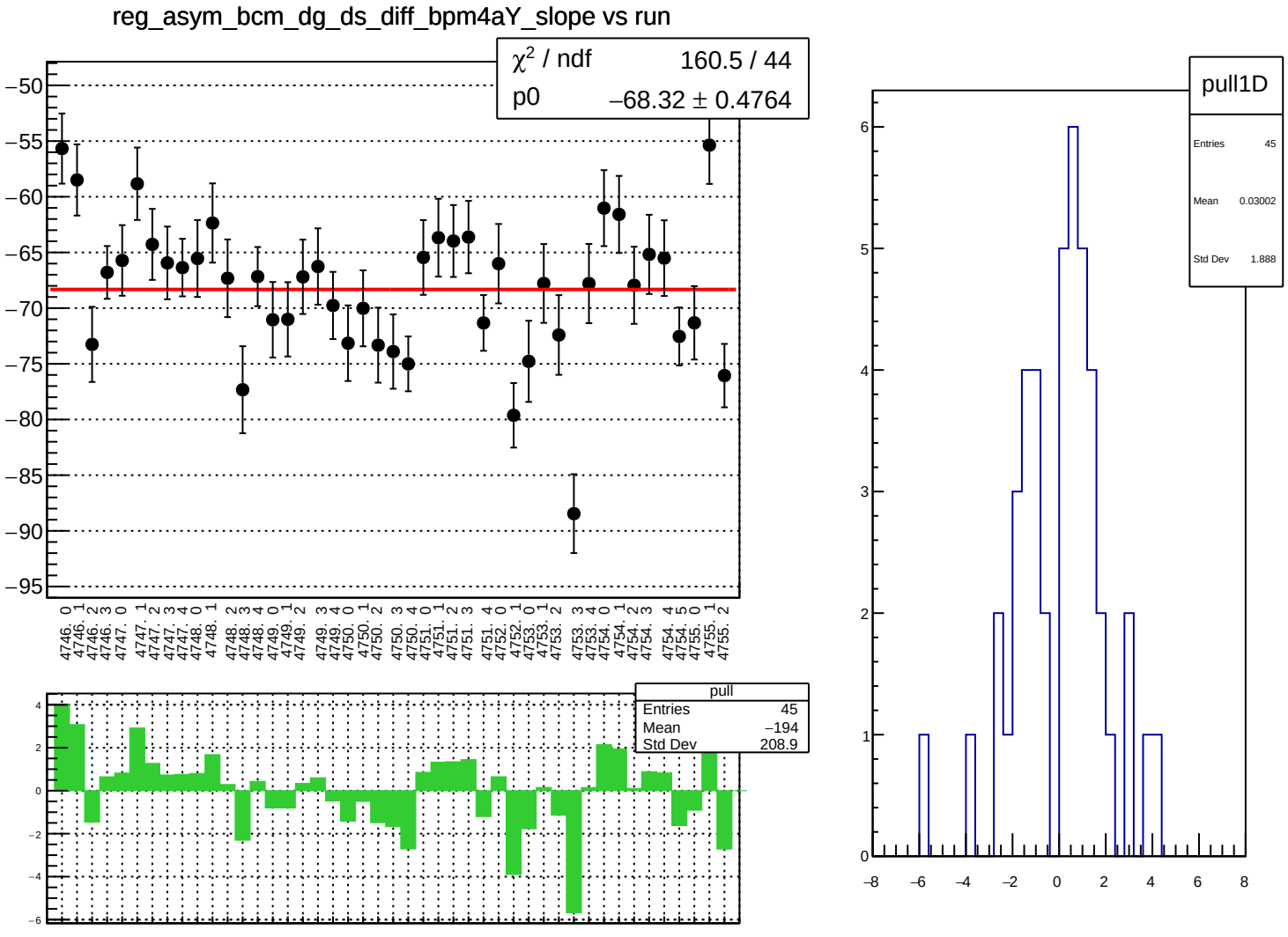

pull1D
Entries 45
Mean −0.04738
Std Dev 1.681

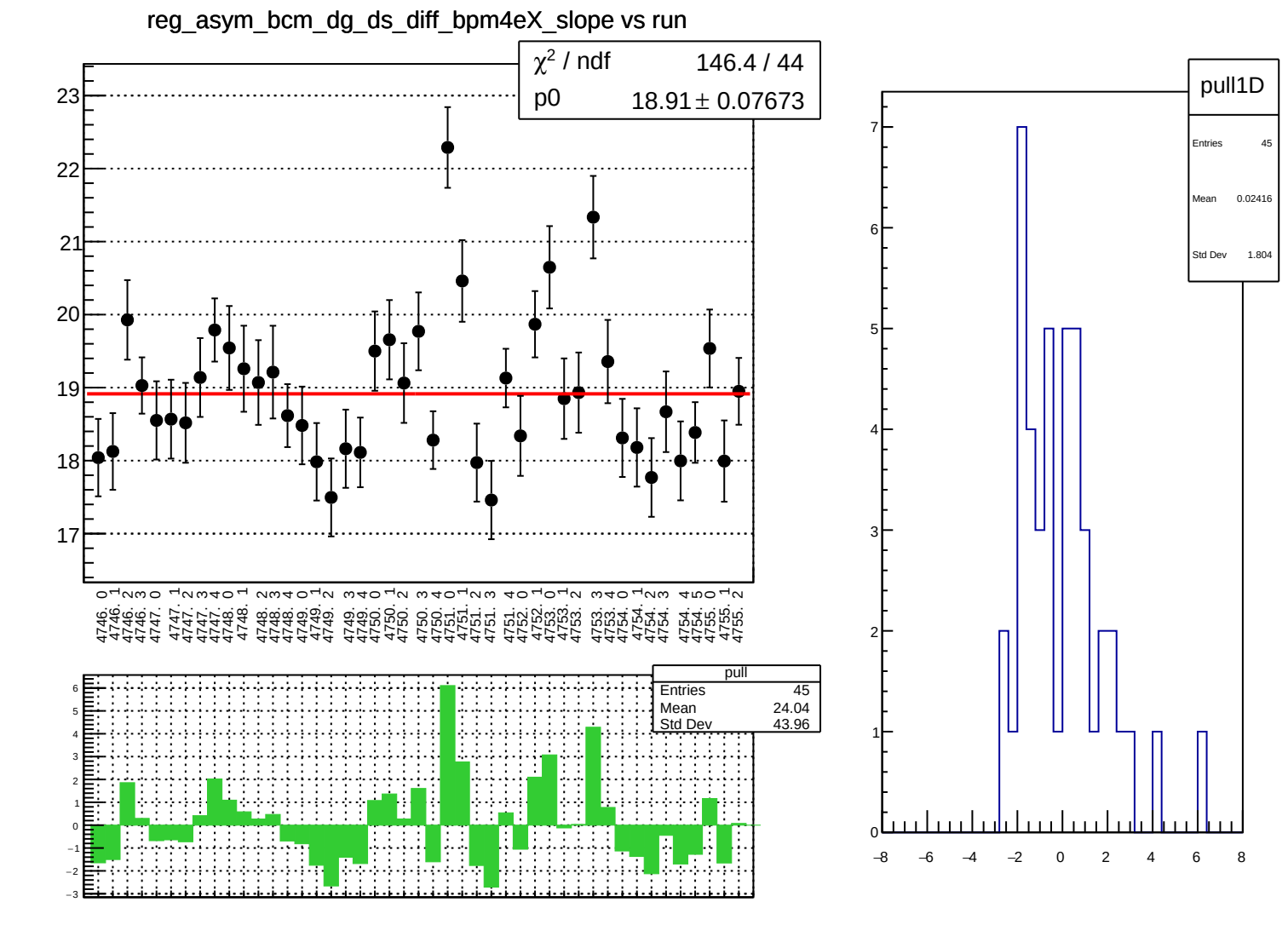

reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 124.9 / 44
p0 16.41 ± 0.1191
pull
Entries 45
Mean 195.8
Std Dev 195.7

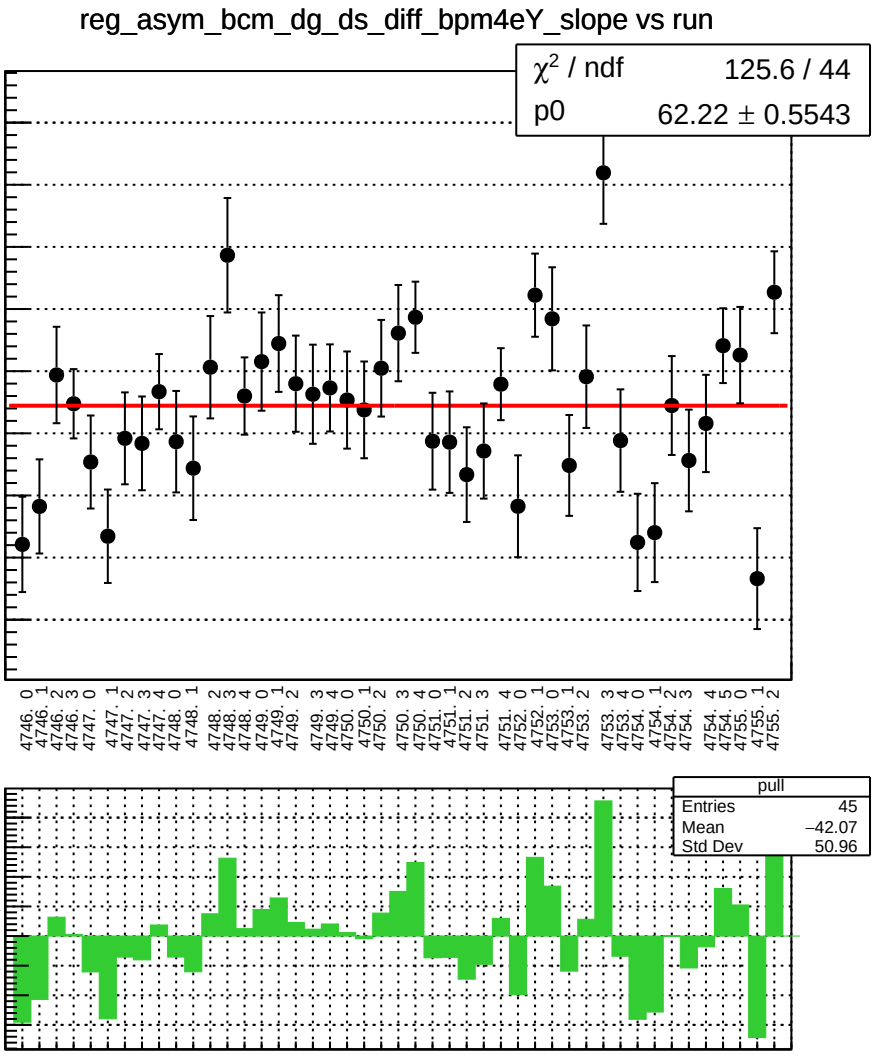

pull1D
Entries 45
Mean 0.007029
Std Dev 1.666

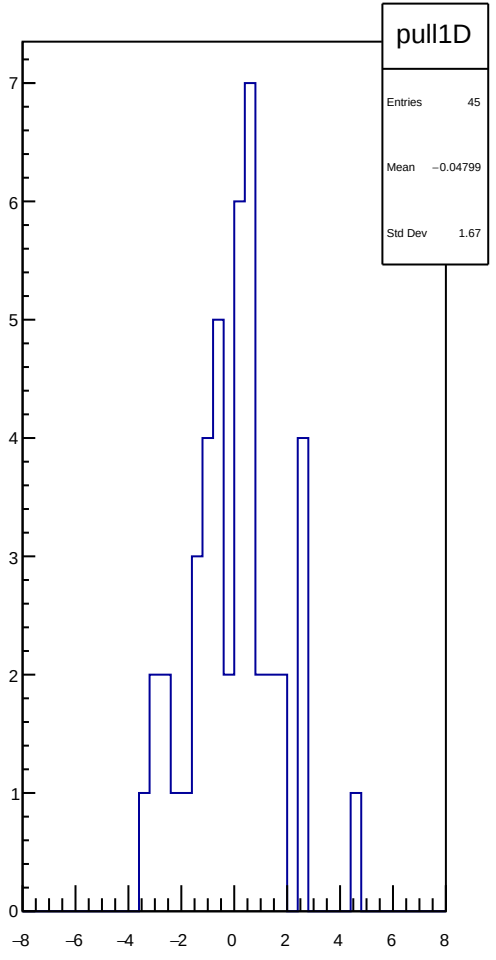

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 183.8 / 44
p0 −65.32 ± 0.3817
pull
Entries 45
Mean −2.74
Std Dev 29.35

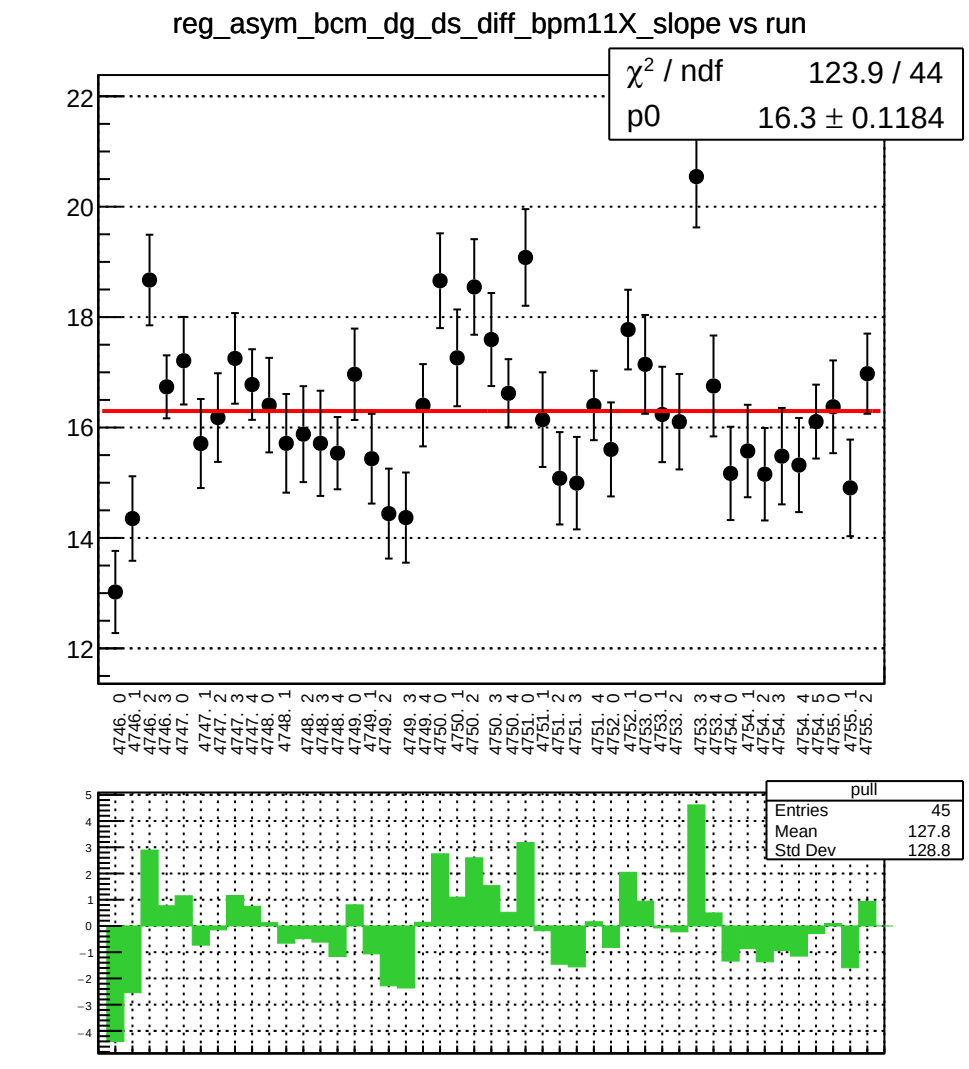

pull1D
Entries 45
Mean 0.1045
Std Dev 1.616

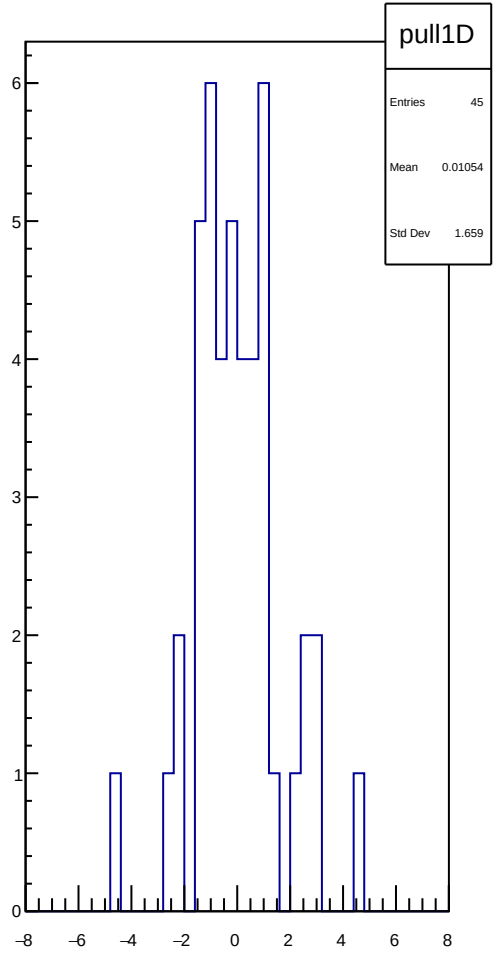

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 160.5 / 44
p0 −68.32 ± 0.4764
pull
Entries 45
Mean −194
Std Dev 208.9
pull1D
Entries 45
Mean 0.03002
Std Dev 1.888

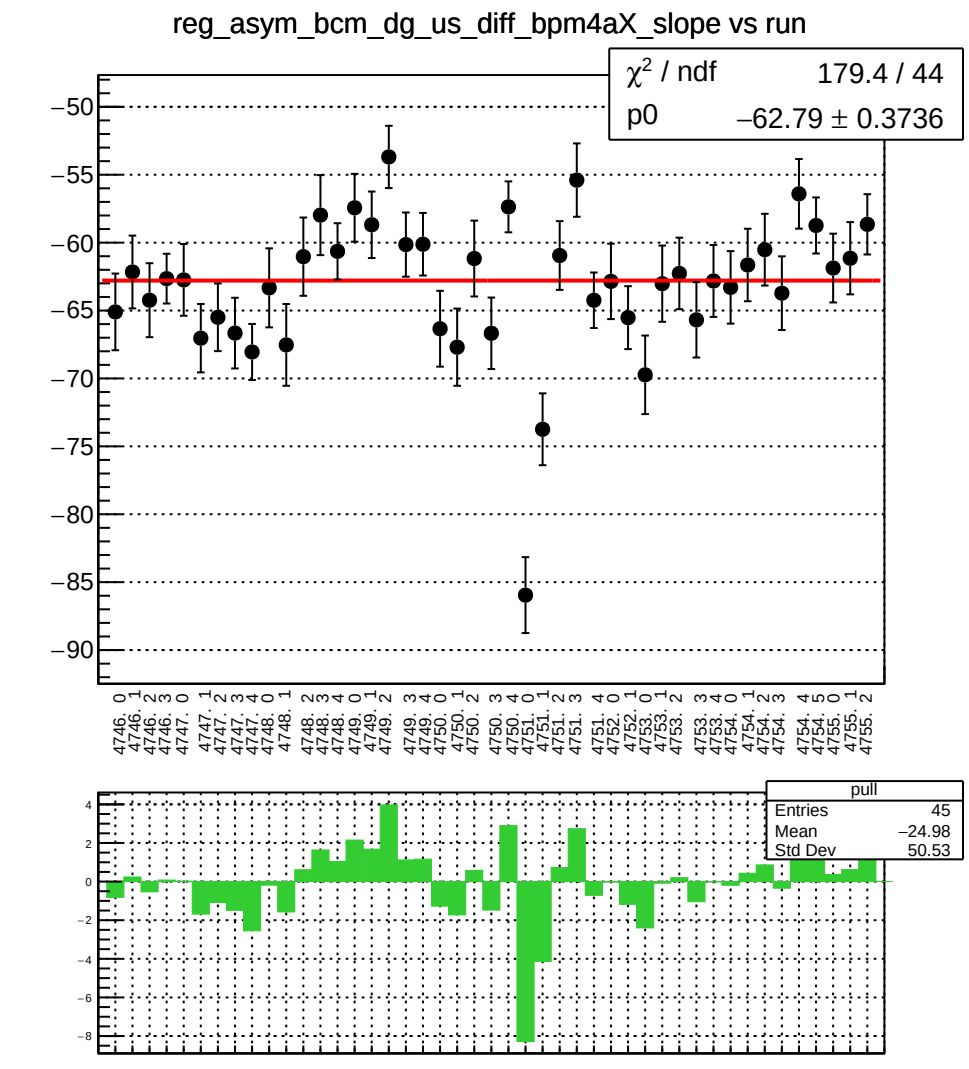

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 146.4 / 44
p0 18.91 ± 0.07673
pull
Entries 45
Mean 24.04
Std Dev 43.96
pull1D
Entries 45
Mean 0.02416
Std Dev 1.804

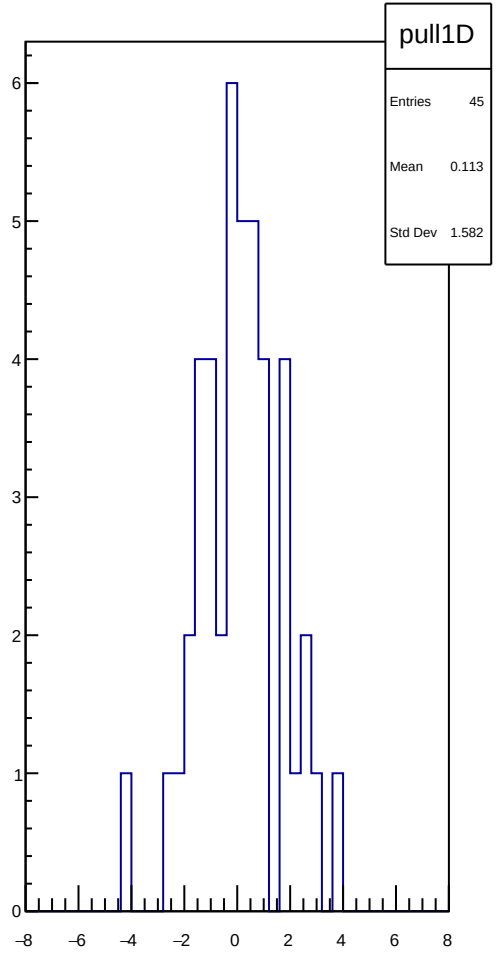

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 125.6 / 44
p0 62.22 ± 0.5543
pull
Entries 45
Mean −42.07
Std Dev 50.96

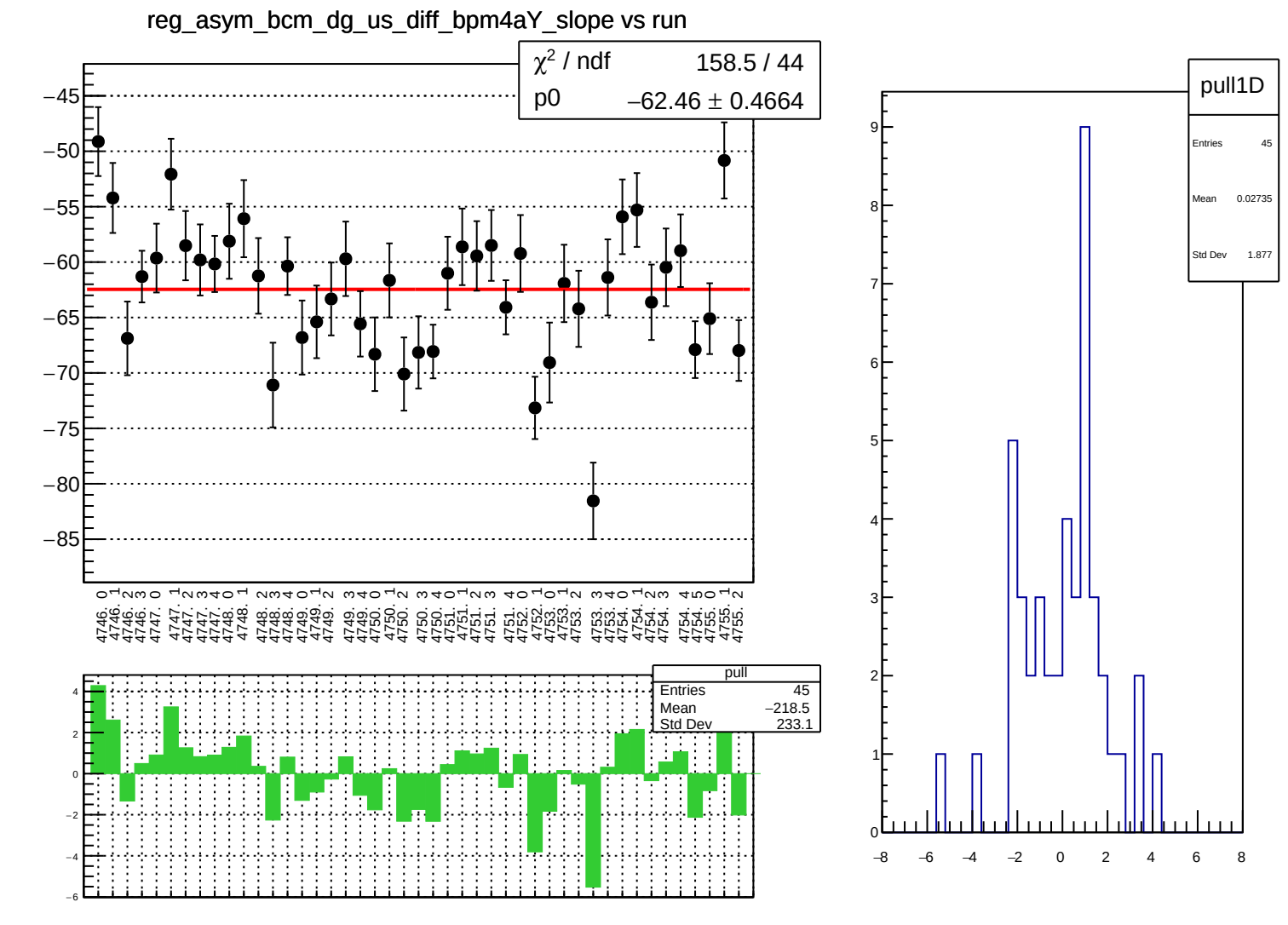

pull1D
Entries 45
Mean −0.04799
Std Dev 1.67

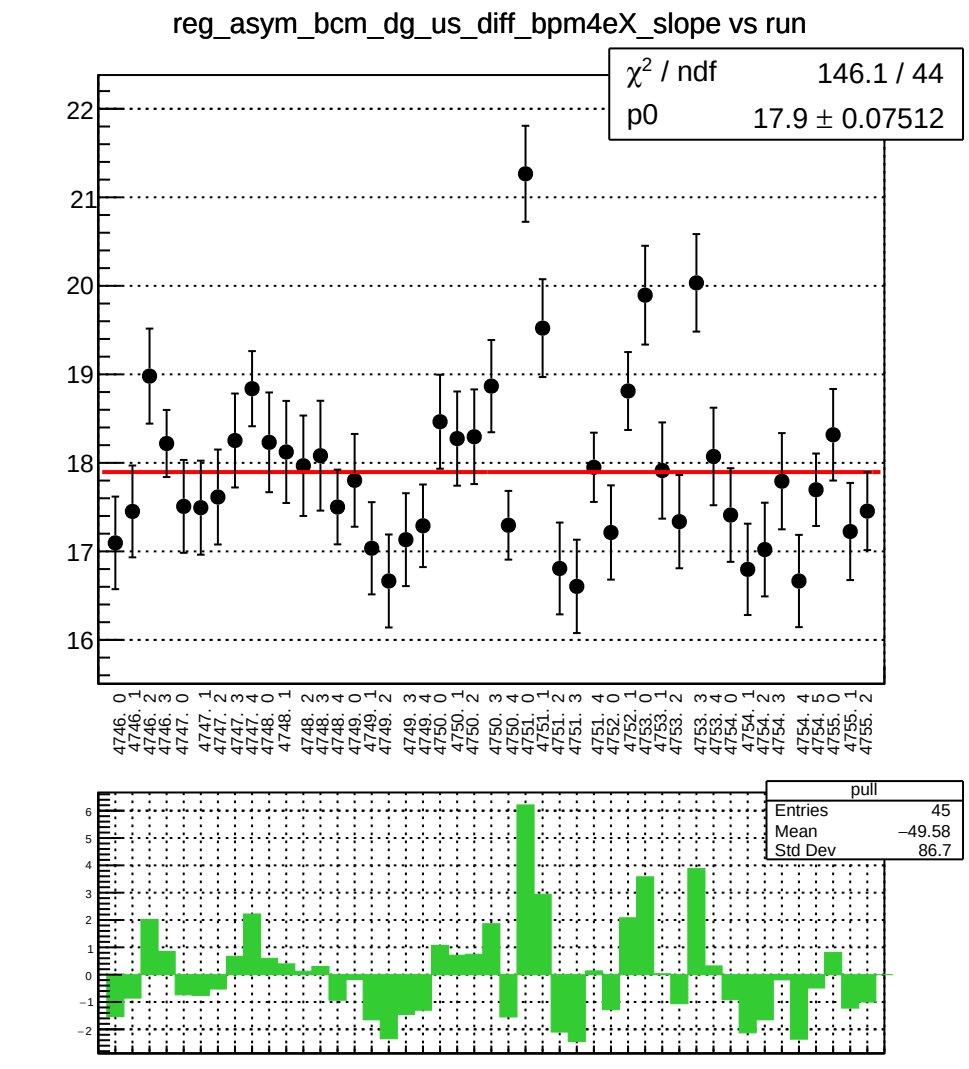

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 123.9 / 44
p0 16.3 ± 0.1184
pull
Entries 45
Mean 127.8
Std Dev 128.8

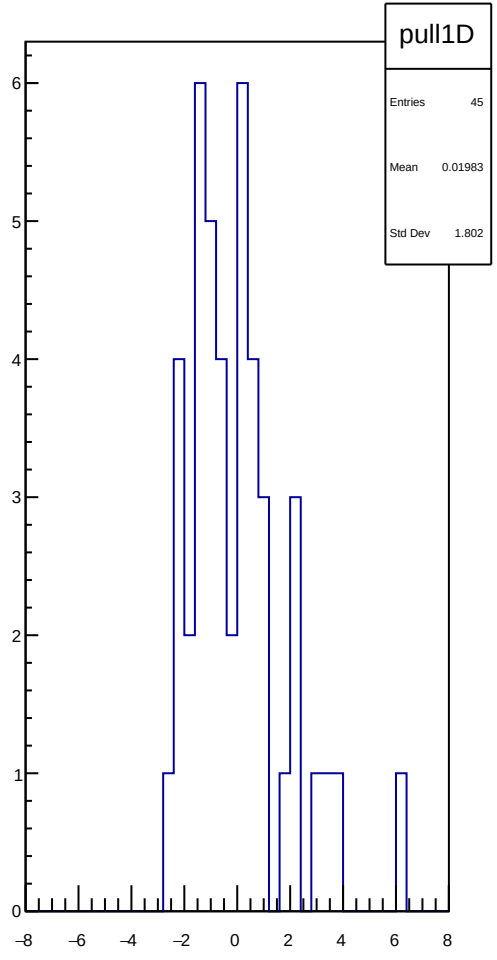

pull1D
Entries 45
Mean 0.01054
Std Dev 1.659

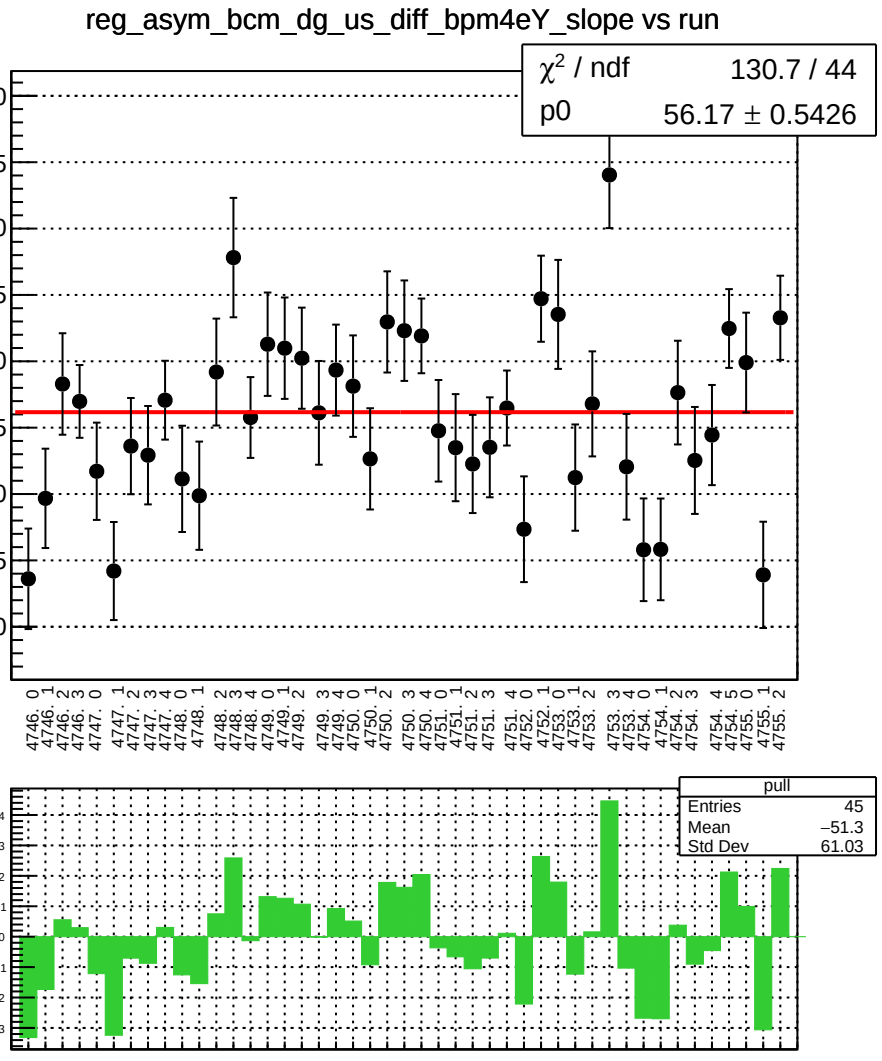

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 179.4 / 44
p0 −62.79 ± 0.3736
pull
Entries 45
Mean −24.98
Std Dev 50.53

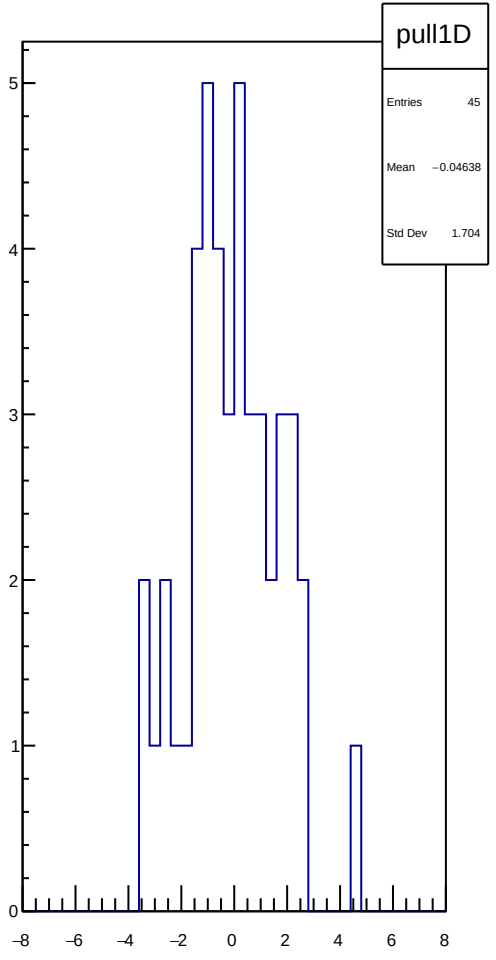

pull1D
Entries 45
Mean 0.113
Std Dev 1.582

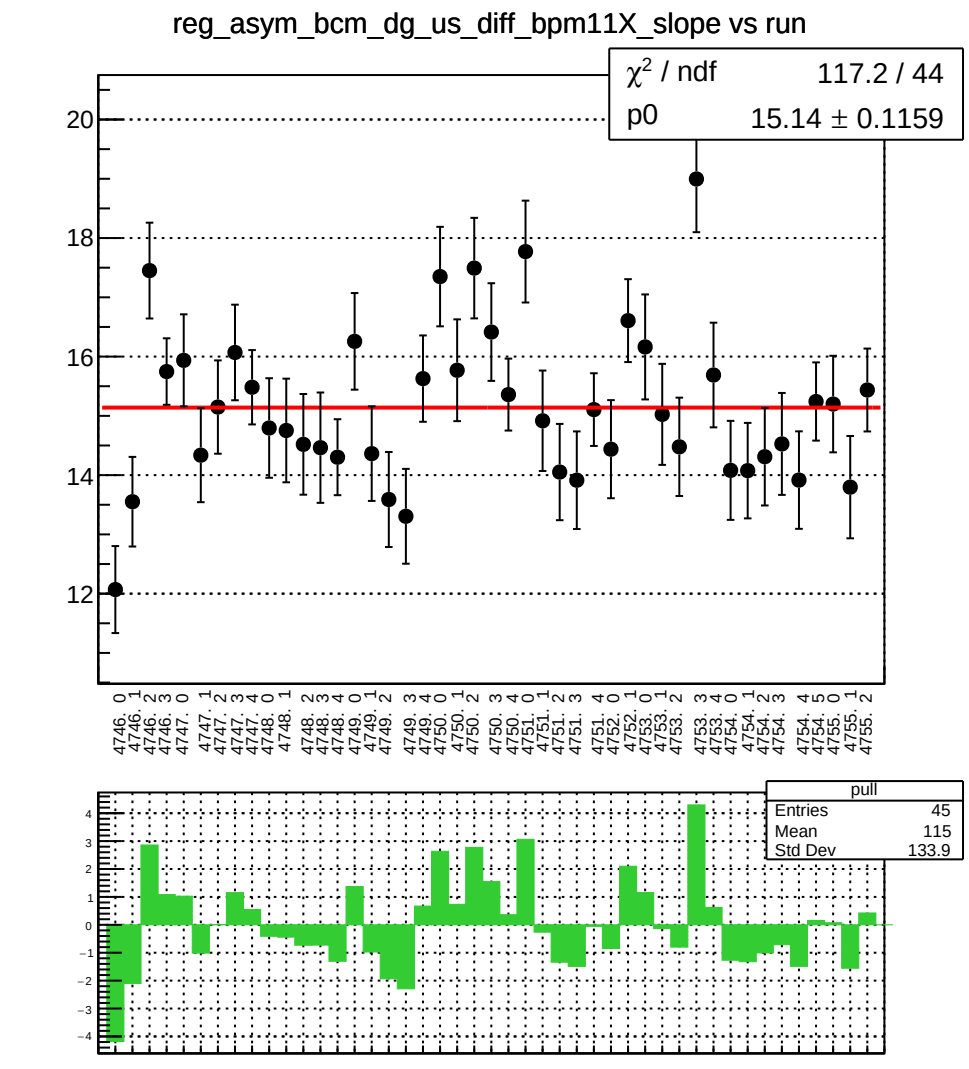

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 158.5 / 44
p0 −62.46 ± 0.4664
pull
Entries 45
Mean −218.5
Std Dev 233.1
pull1D
Entries 45
Mean 0.02735
Std Dev 1.877

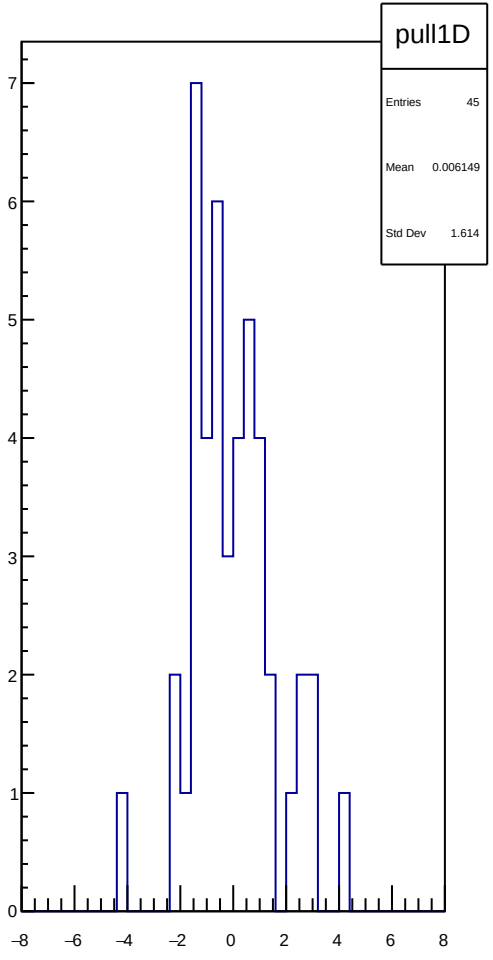

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 146.1 / 44
p0 17.9 ± 0.07512
pull
Entries 45
Mean −49.58
Std Dev 86.7

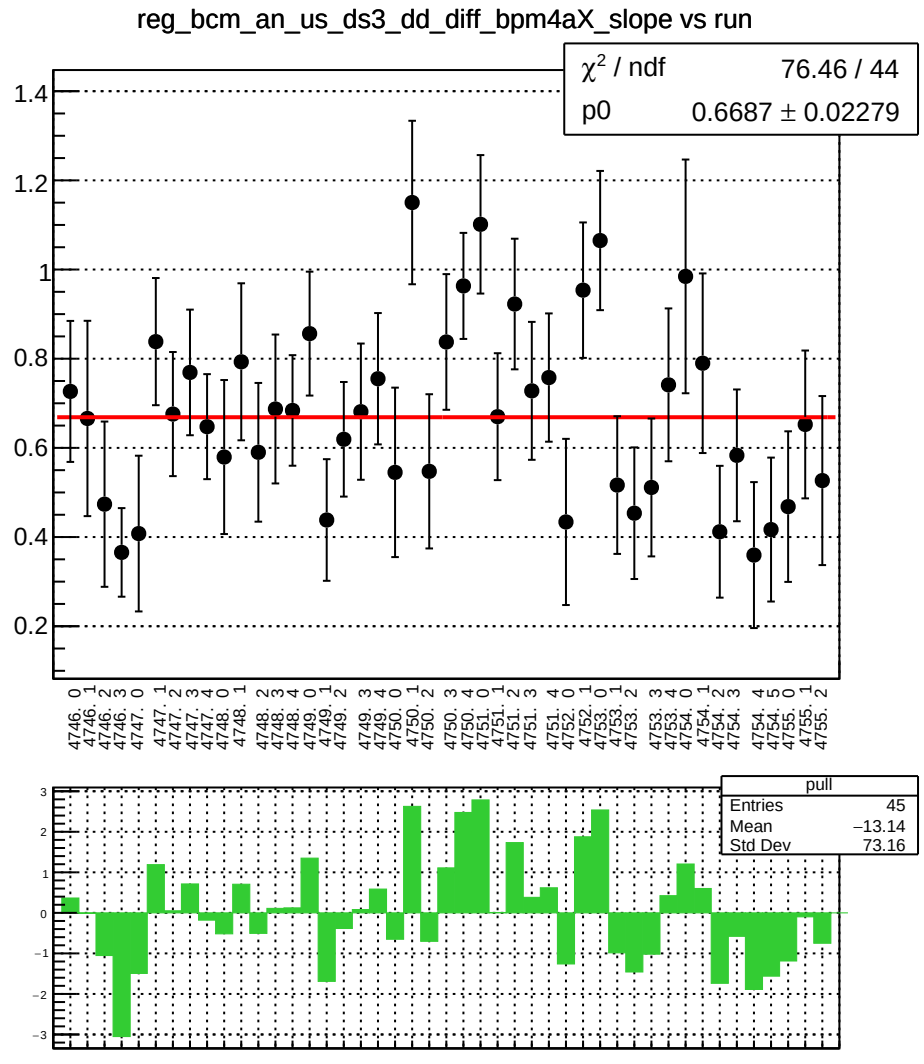

pull1D
Entries 45
Mean 0.01983
Std Dev 1.802

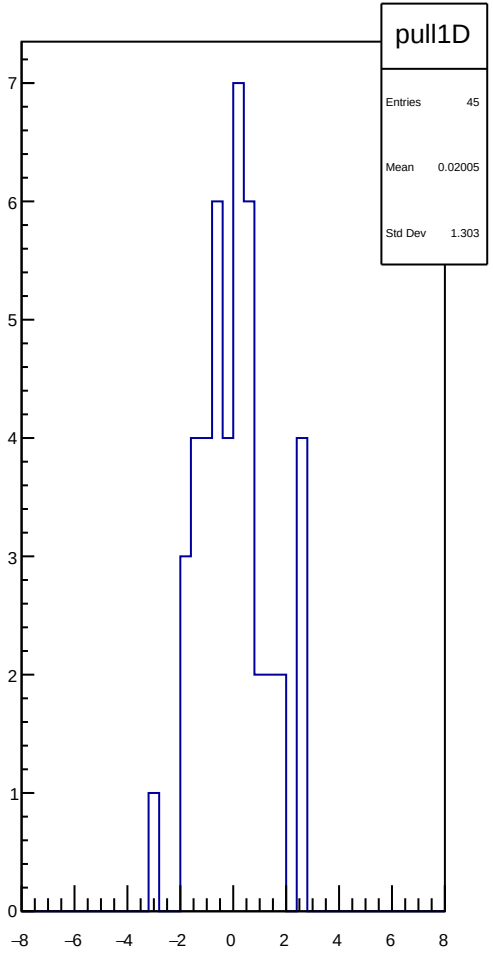

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 130.7 / 44
p0 56.17 ± 0.5426
pull
Entries 45
Mean −51.3
Std Dev 61.03

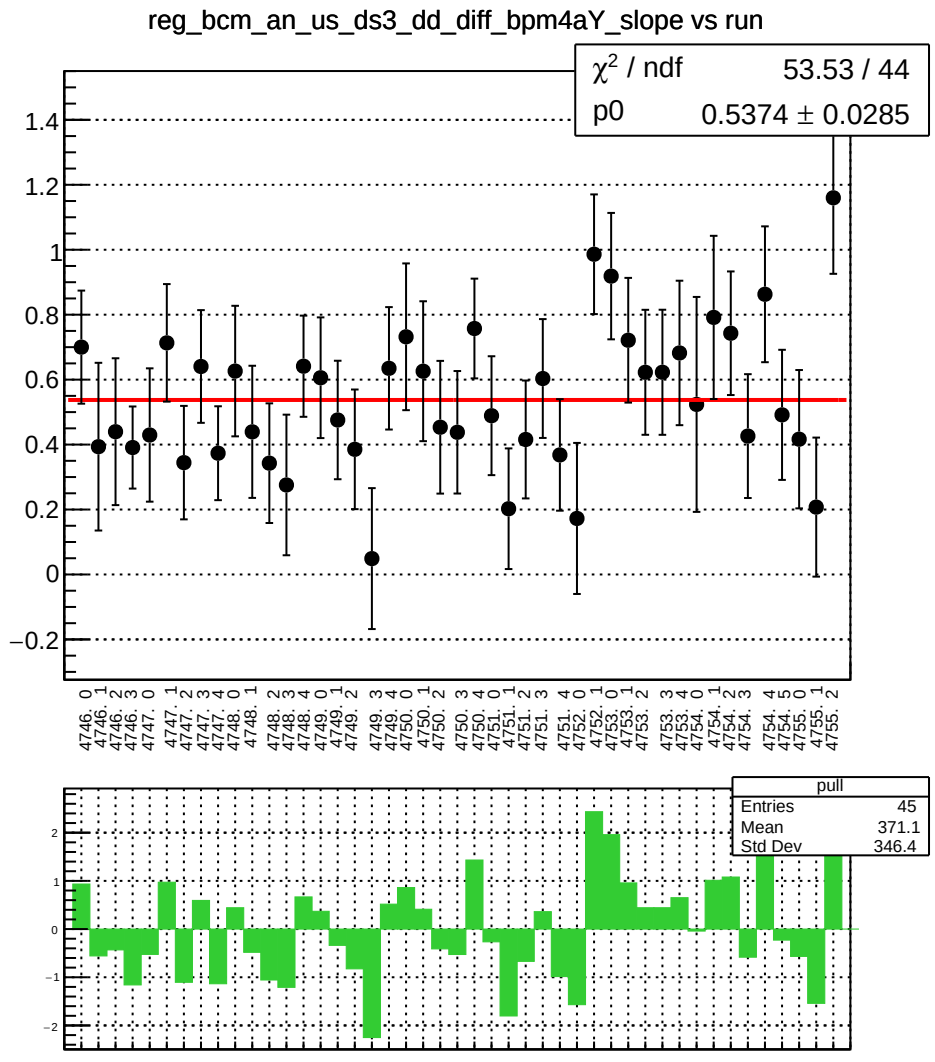

pull1D
Entries 45
Mean −0.04638
Std Dev 1.704

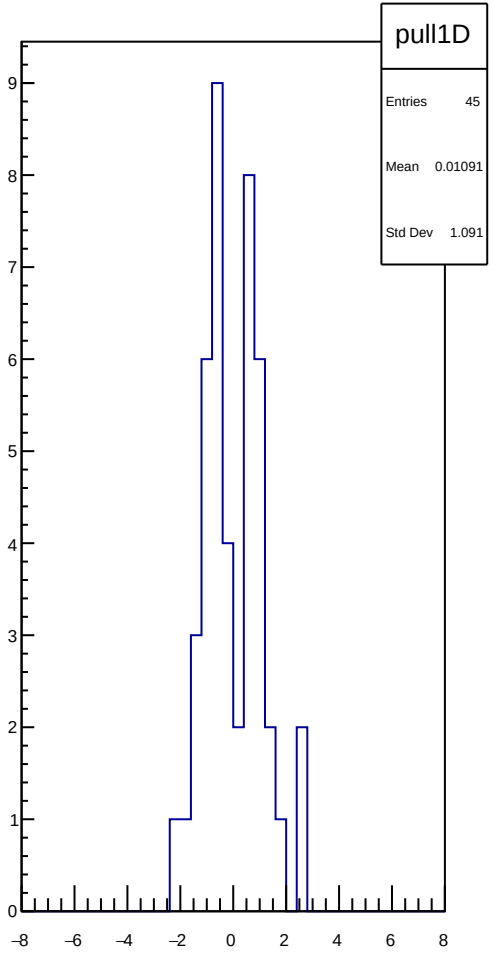

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 117.2 / 44
p0 15.14 ± 0.1159
20
18
16
14
12
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 115
Std Dev 133.9
4
3
2
1
0
−1
−2
−3
−4

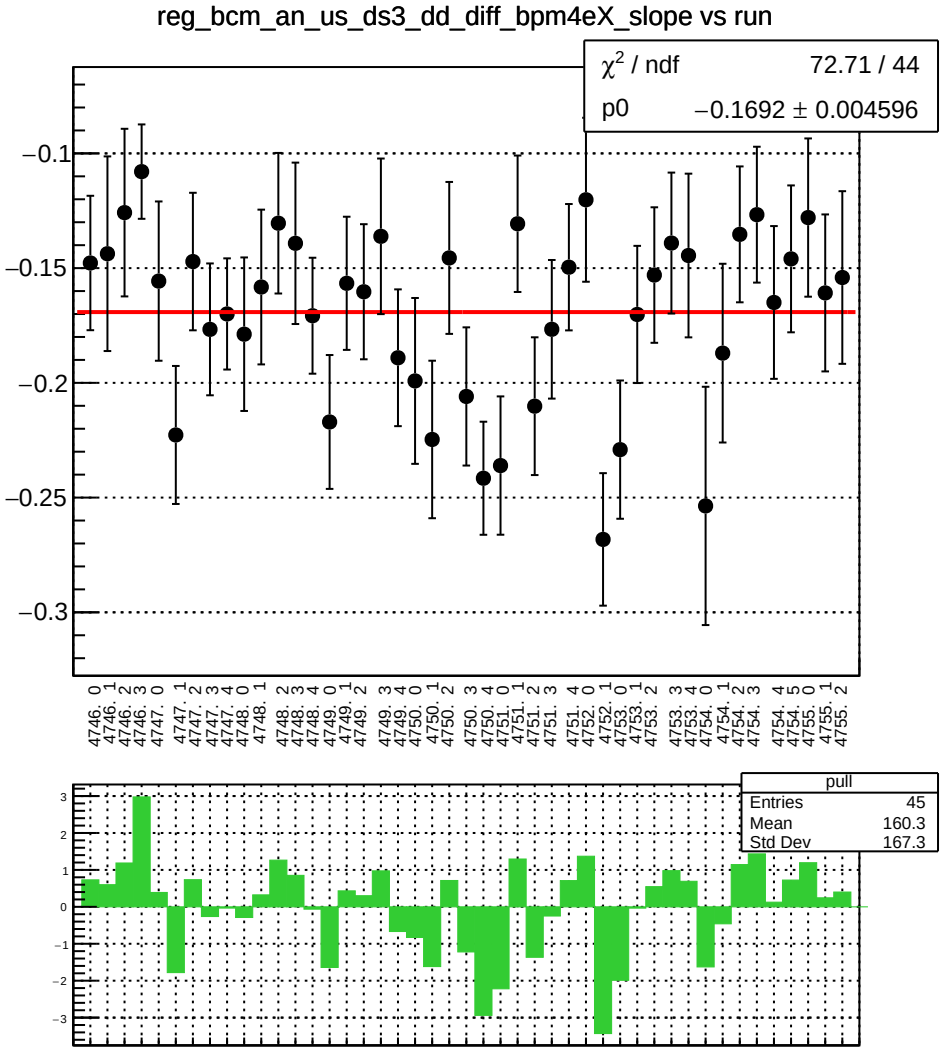

pull1D
Entries 45
Mean 0.006149
Std Dev 1.614
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

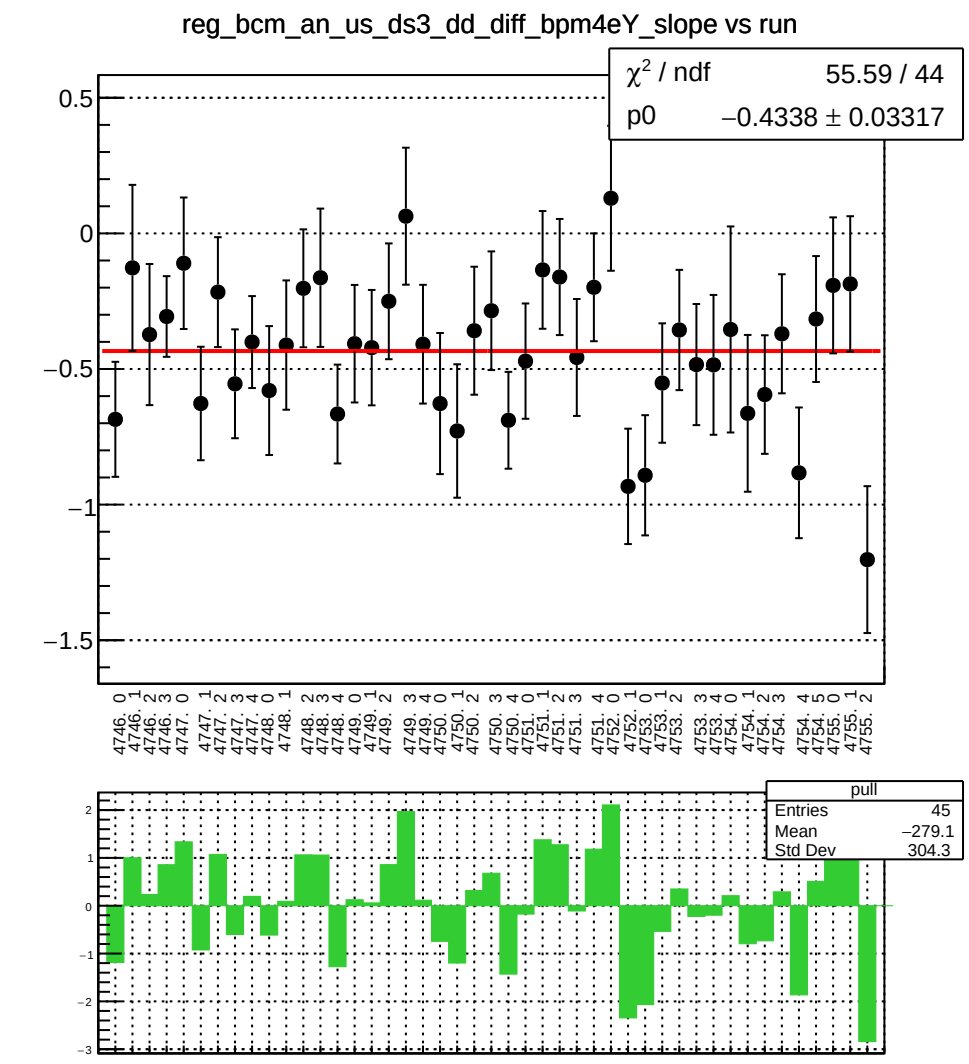

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 76.46 / 44
p0 0.6687 ± 0.02279
pull
Entries 45
Mean −13.14
Std Dev 73.16

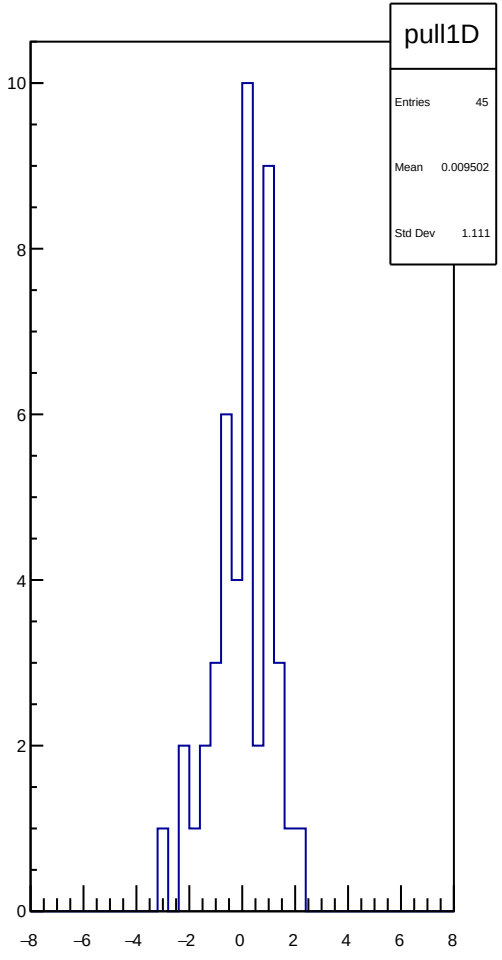

pull1D
Entries 45
Mean 0.02005
Std Dev 1.303

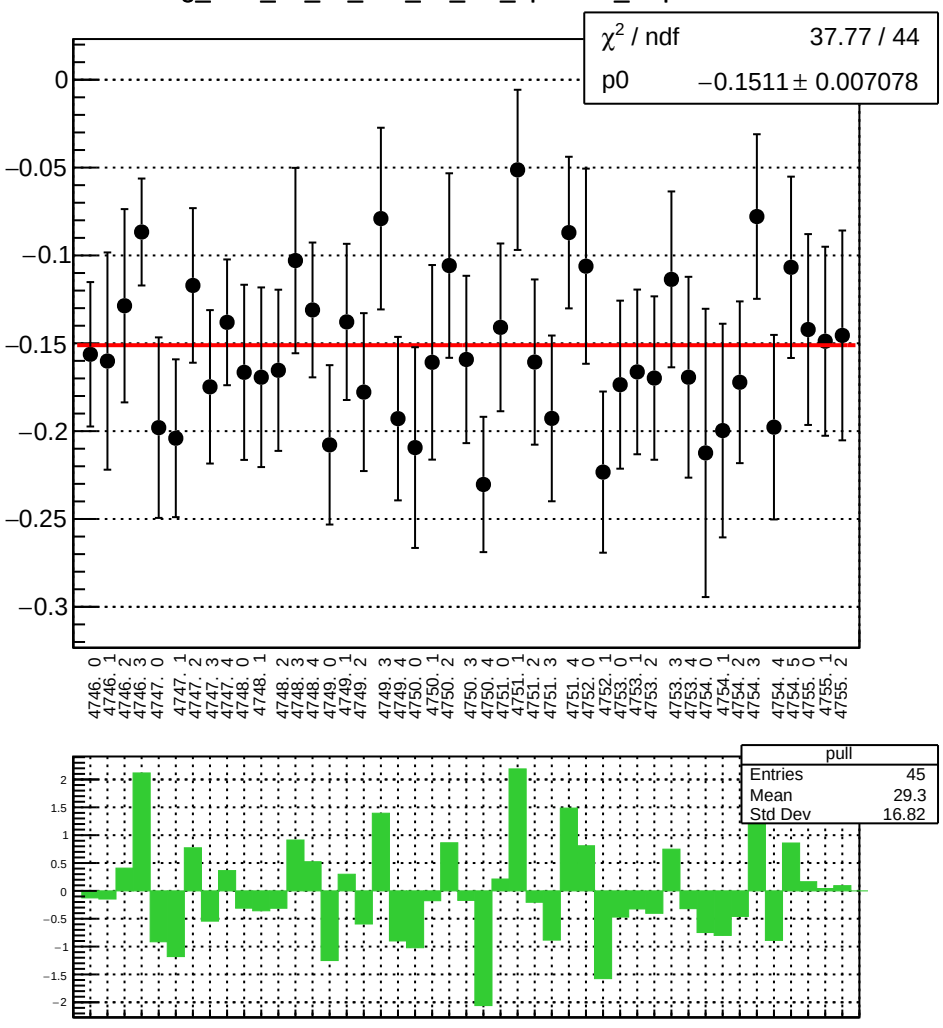

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 53.53 / 44
p0 0.5374 ± 0.0285
pull
Entries 45
Mean 371.1
Std Dev 346.4

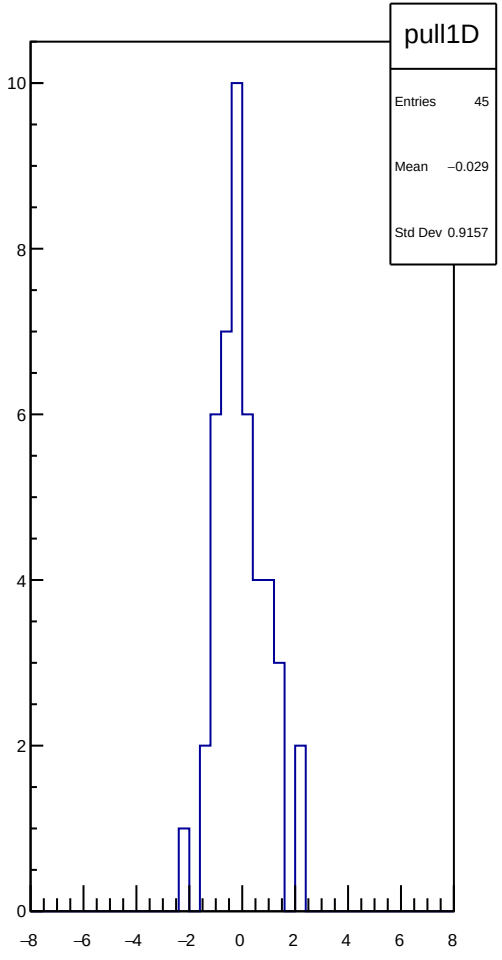

pull1D
Entries 45
Mean 0.01091
Std Dev 1.091

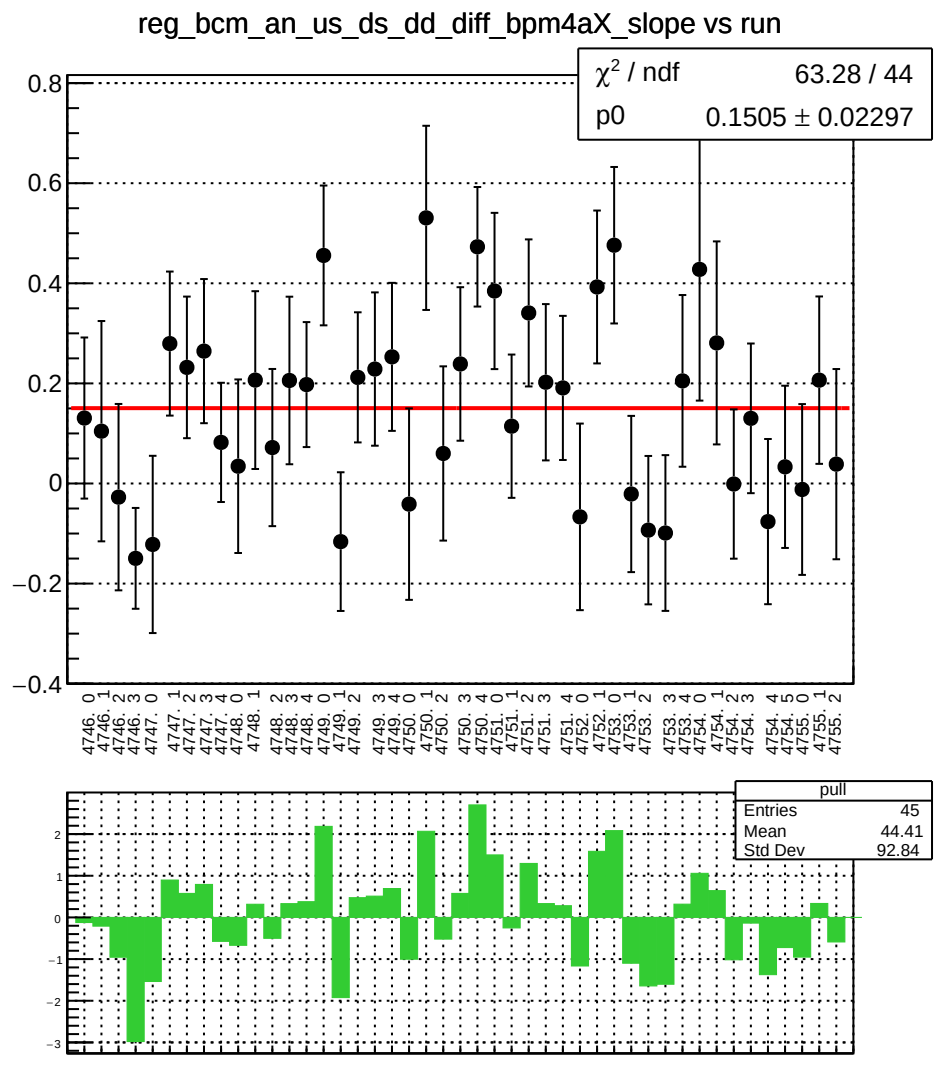

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 72.71 / 44
p0 −0.1692 ± 0.004596
−0.1
−0.15
−0.2
−0.25
−0.3
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 160.3
Std Dev 167.3
3
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.008446
Std Dev 1.271
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

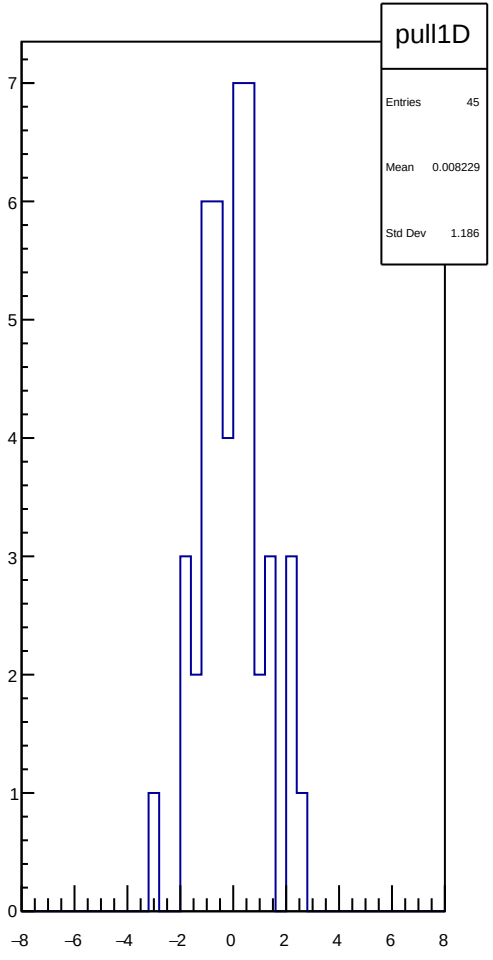

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.59 / 44
p0 −0.4338 ± 0.03317
0.5
0
−0.5
−1
−1.5
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean −279.1
Std Dev 304.3
2
1
0
−1
−2
−3

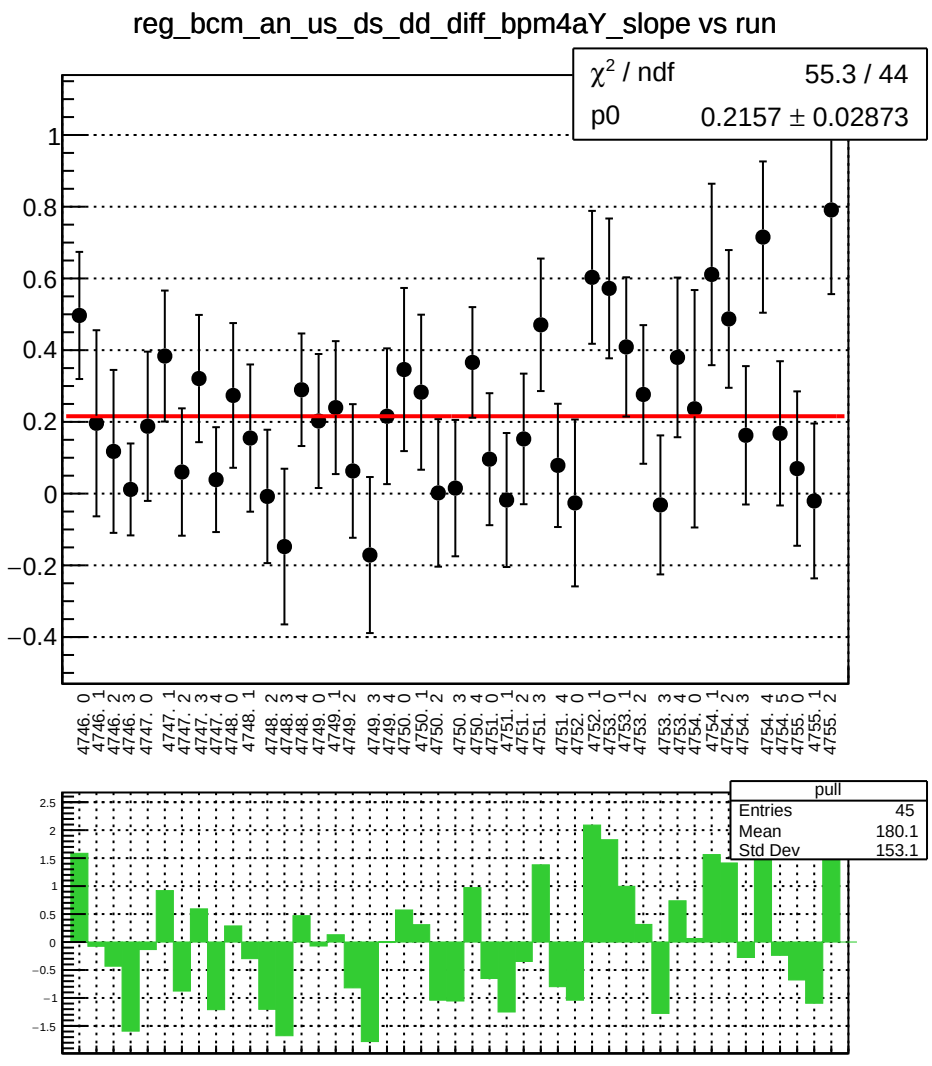

pull1D
Entries 45
Mean 0.009502
Std Dev 1.111
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

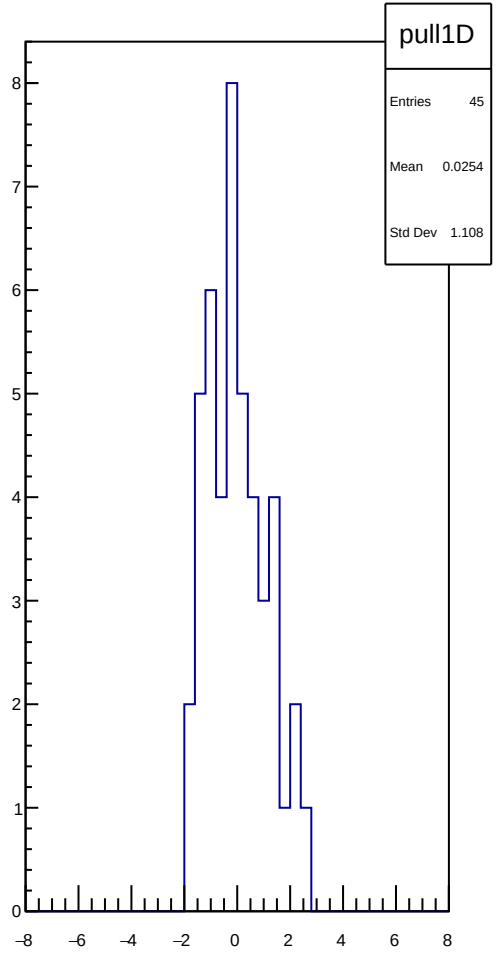

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 37.77 / 44
p0 −0.1511 ± 0.007078
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 29.3
Std Dev 16.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

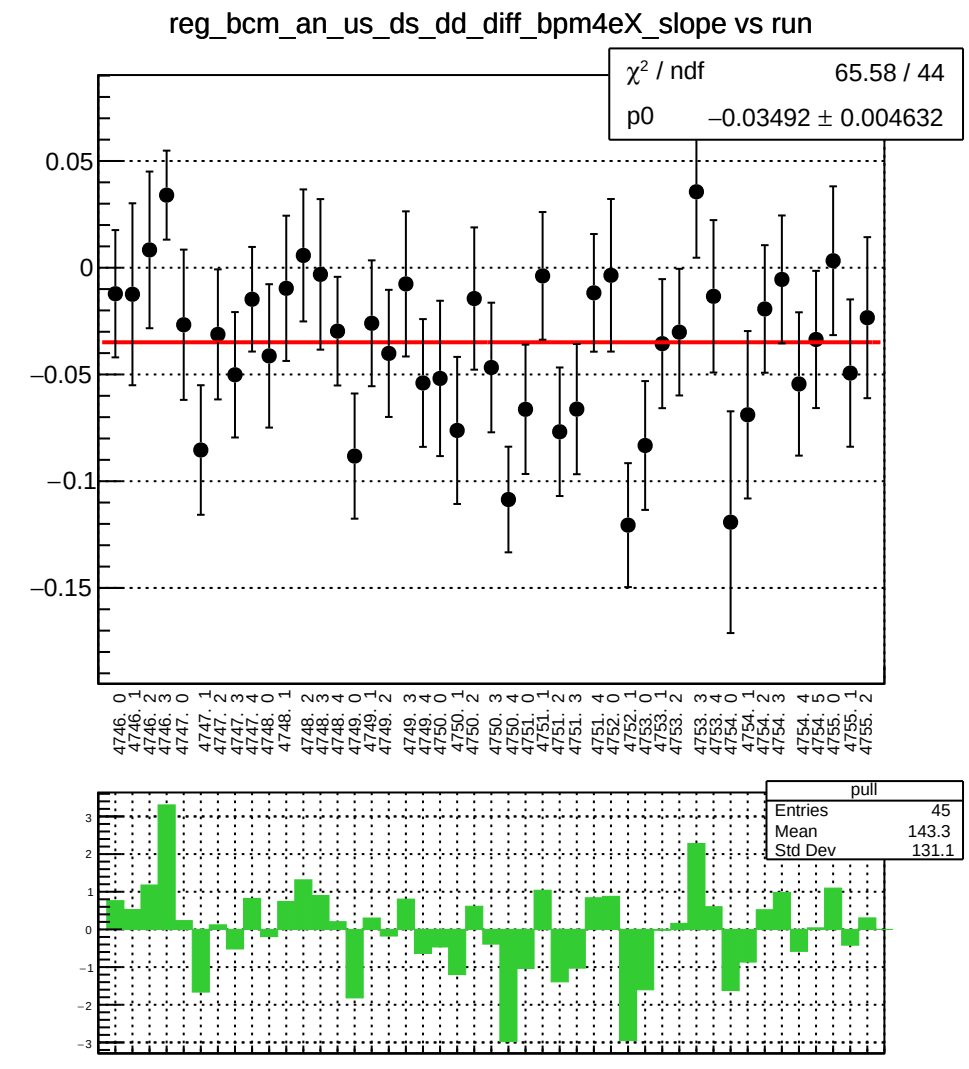

pull1D
Entries 45
Mean −0.029
Std Dev 0.9157
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

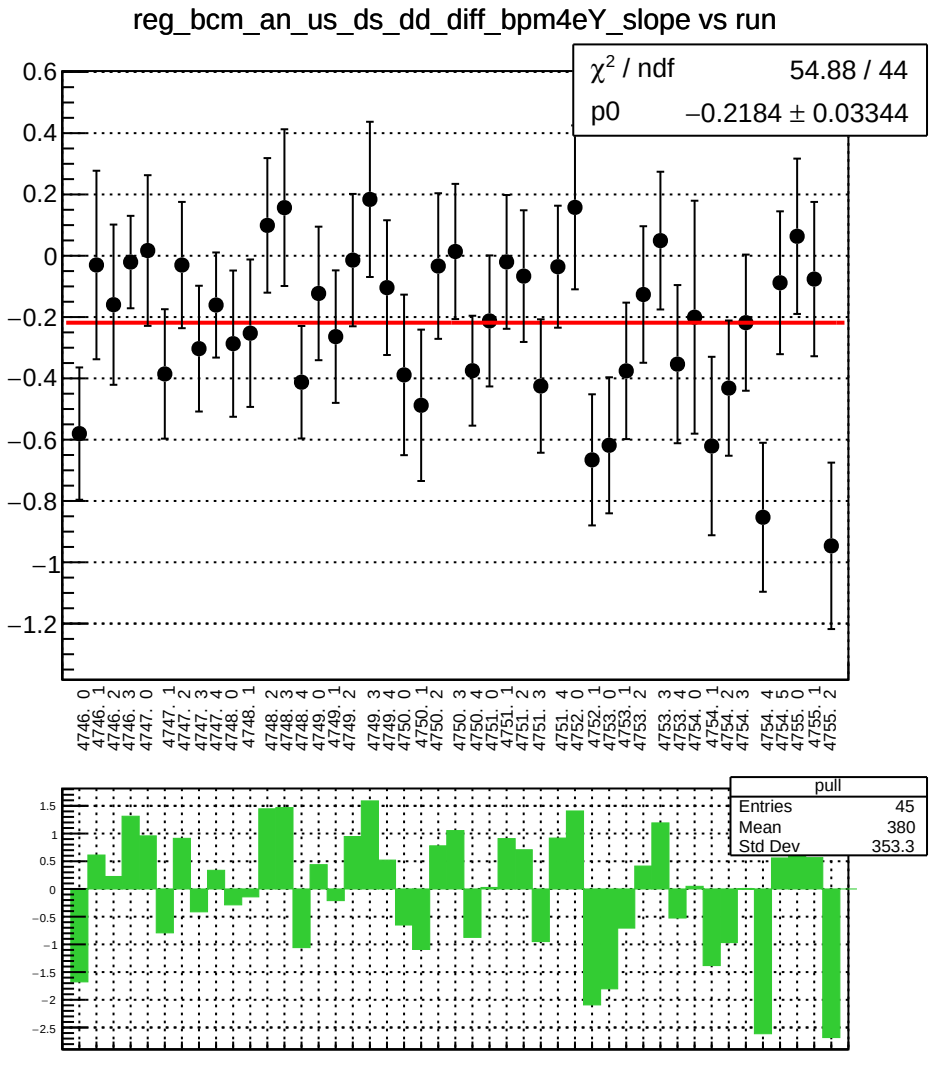

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 63.28 / 44
p0 0.1505 ± 0.02297
pull
Entries 45
Mean 44.41
Std Dev 92.84

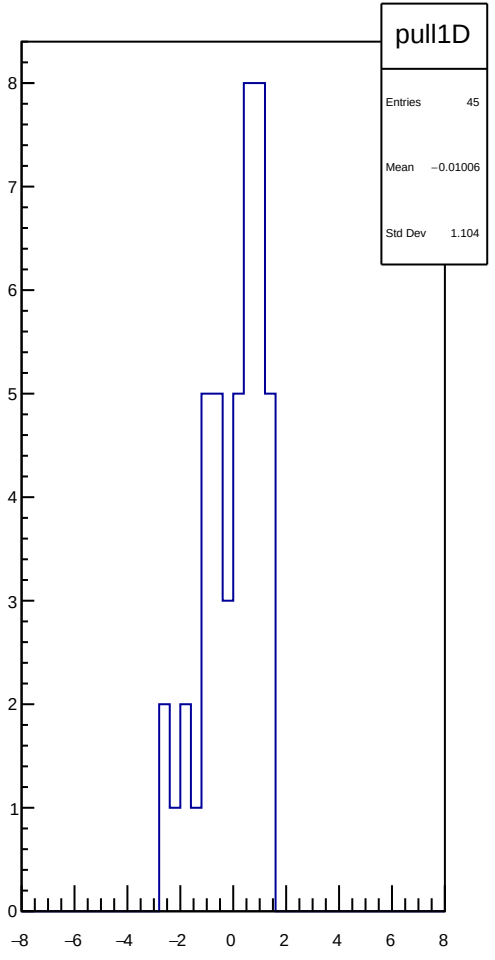

pull1D
Entries 45
Mean 0.008229
Std Dev 1.186

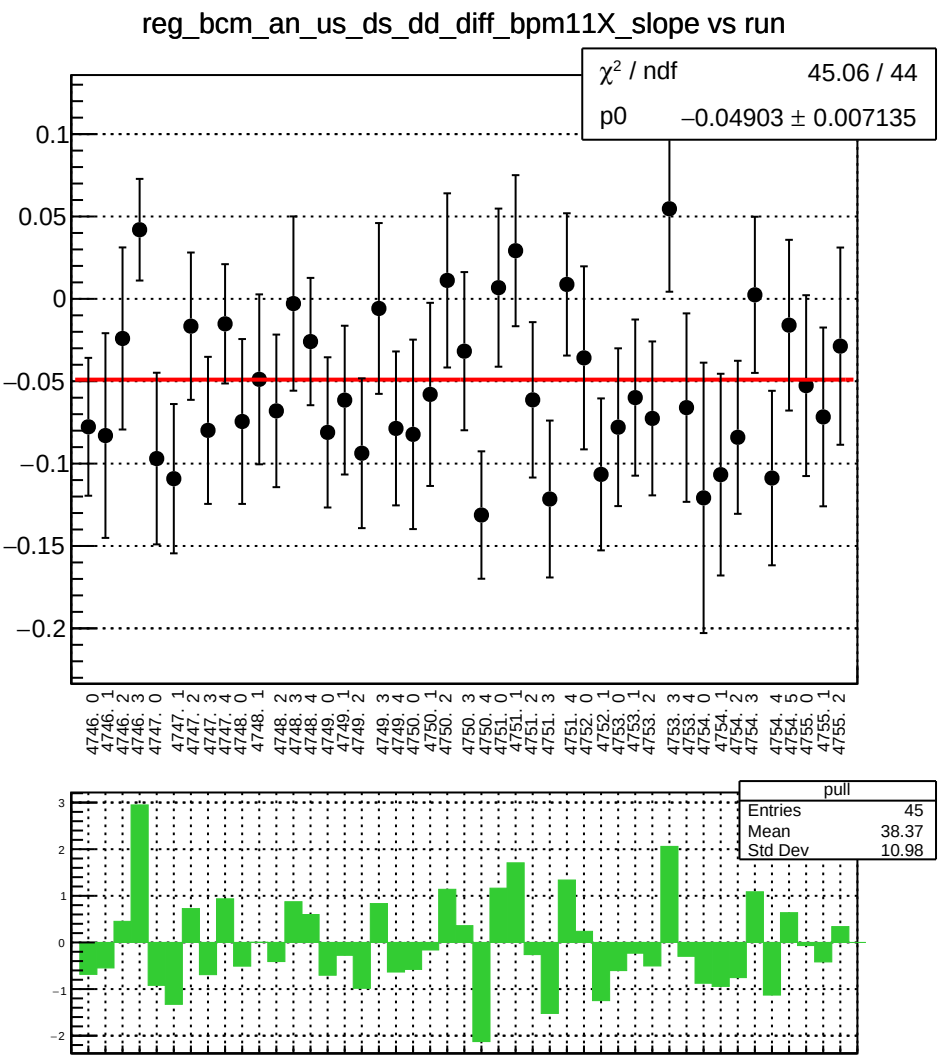

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 55.3 / 44
p0 0.2157 ± 0.02873
pull
Entries 45
Mean 180.1
Std Dev 153.1

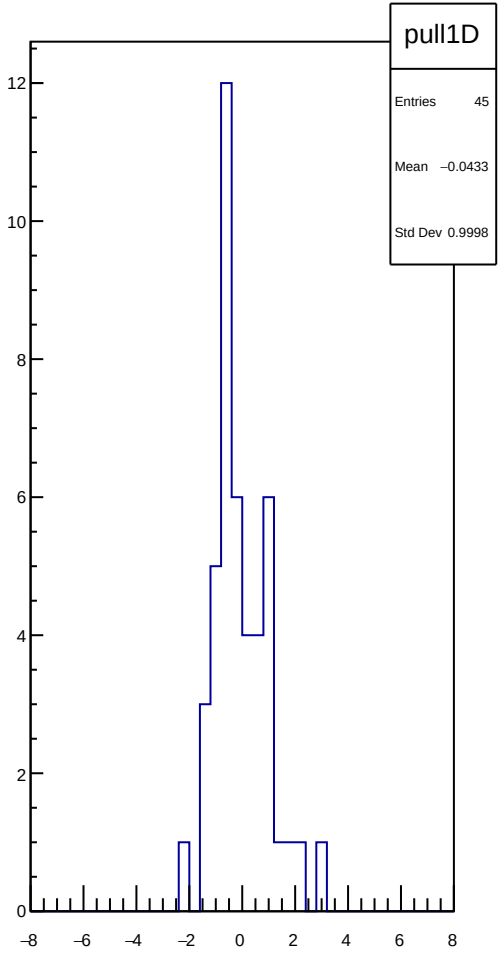

pull1D
Entries 45
Mean 0.0254
Std Dev 1.108

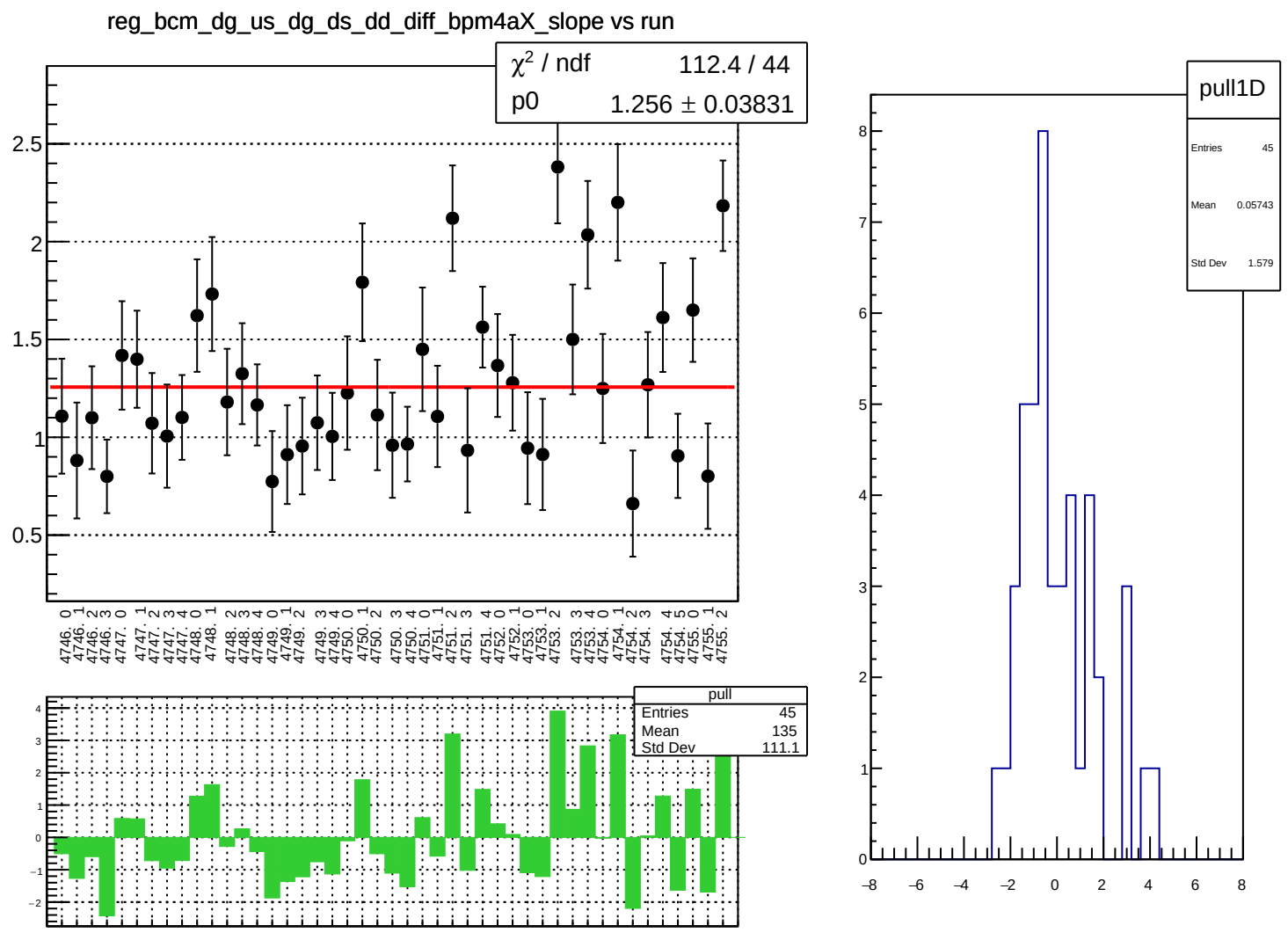

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 65.58 / 44
p0 −0.03492 ± 0.004632
0.05
0
−0.05
−0.1
−0.15
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 143.3
Std Dev 131.1
3
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.02126
Std Dev 1.207
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

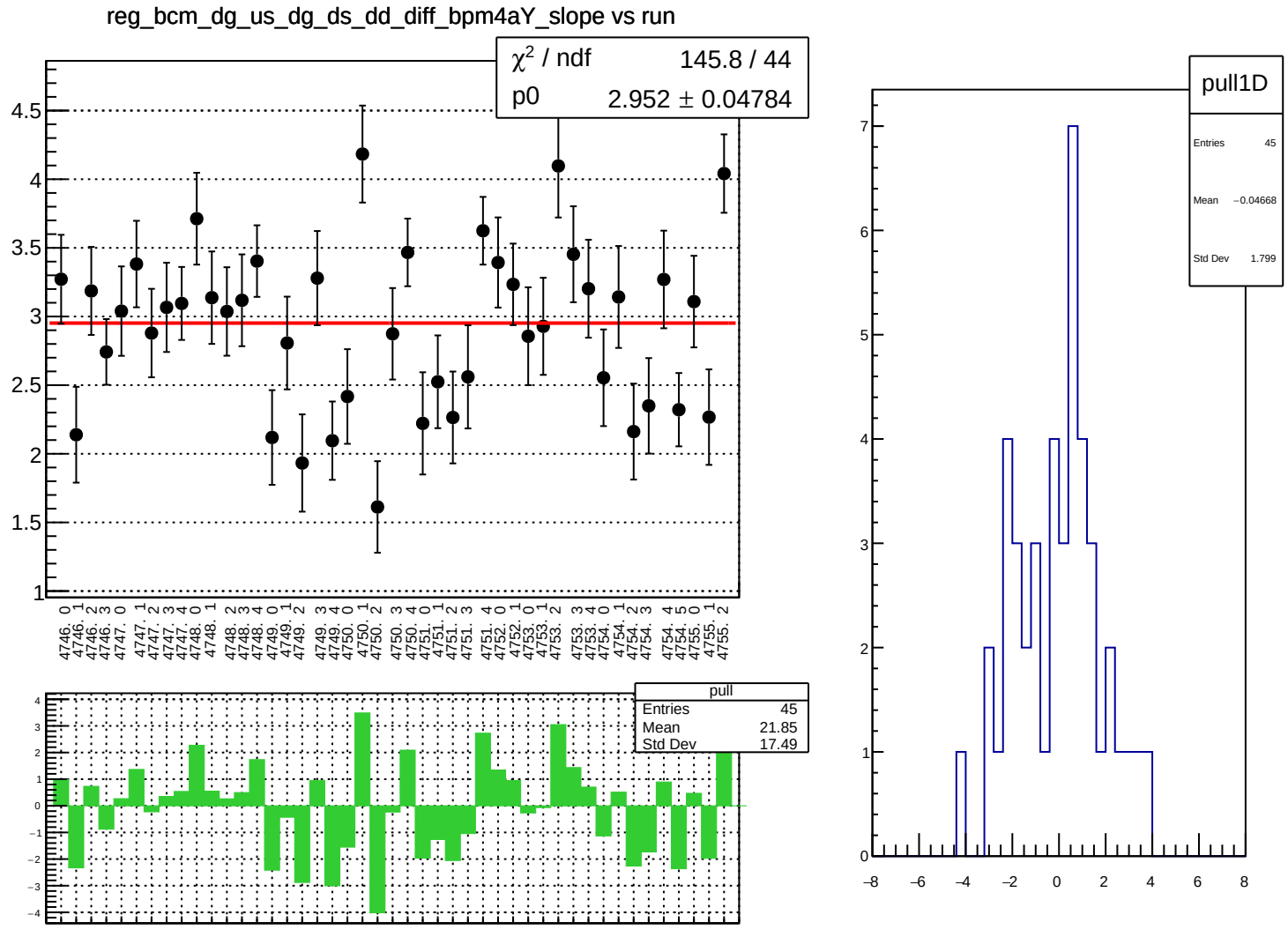

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 54.88 / 44
p0 −0.2184 ± 0.03344
pull
Entries 45
Mean 380
Std Dev 353.3

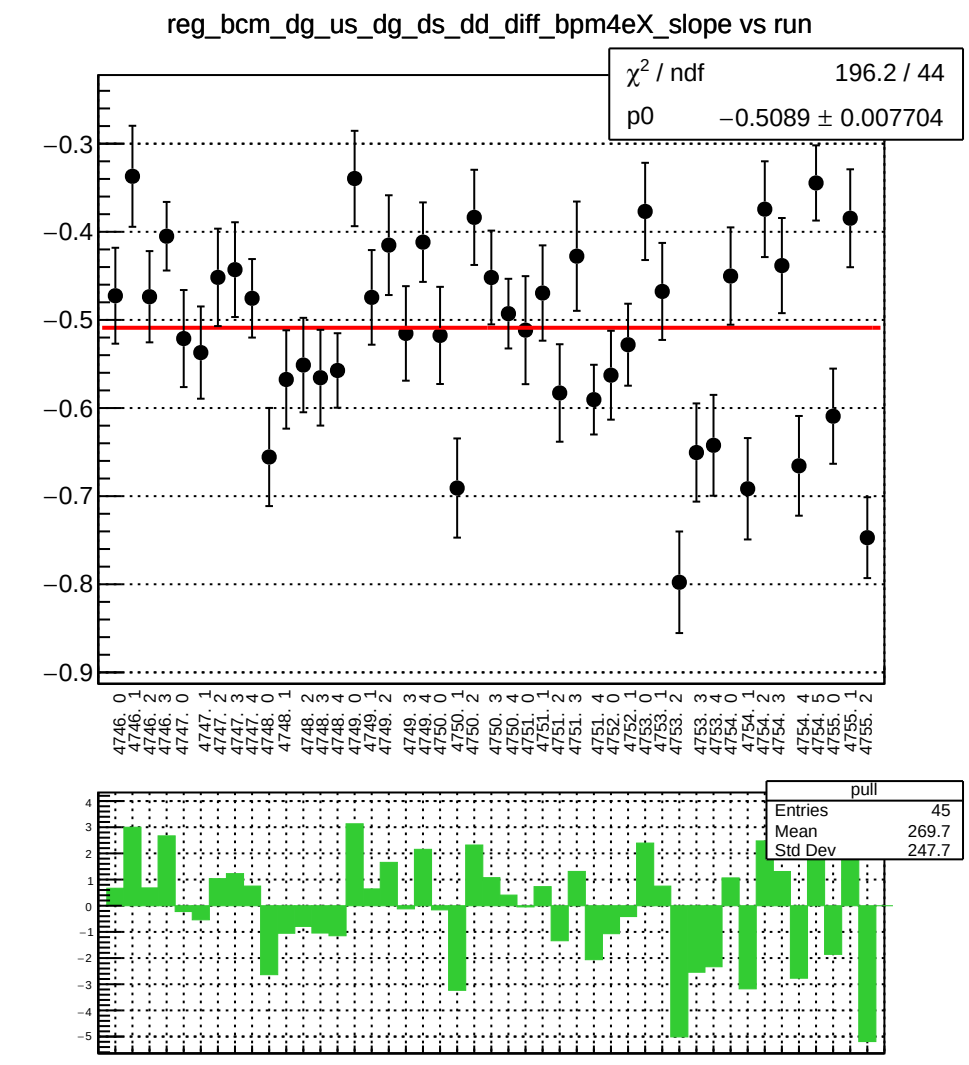

pull1D
Entries 45
Mean −0.01006
Std Dev 1.104

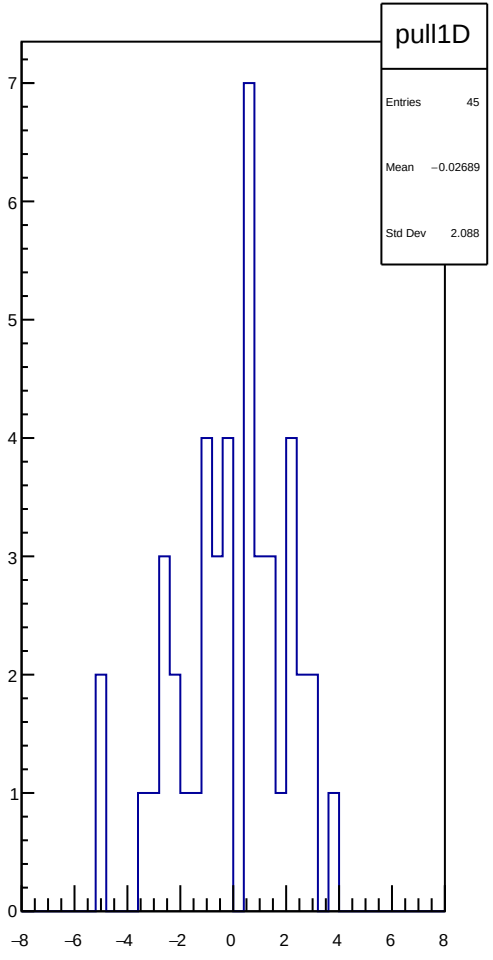

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 45.06 / 44
p0 −0.04903 ± 0.007135
pull
Entries 45
Mean 38.37
Std Dev 10.98

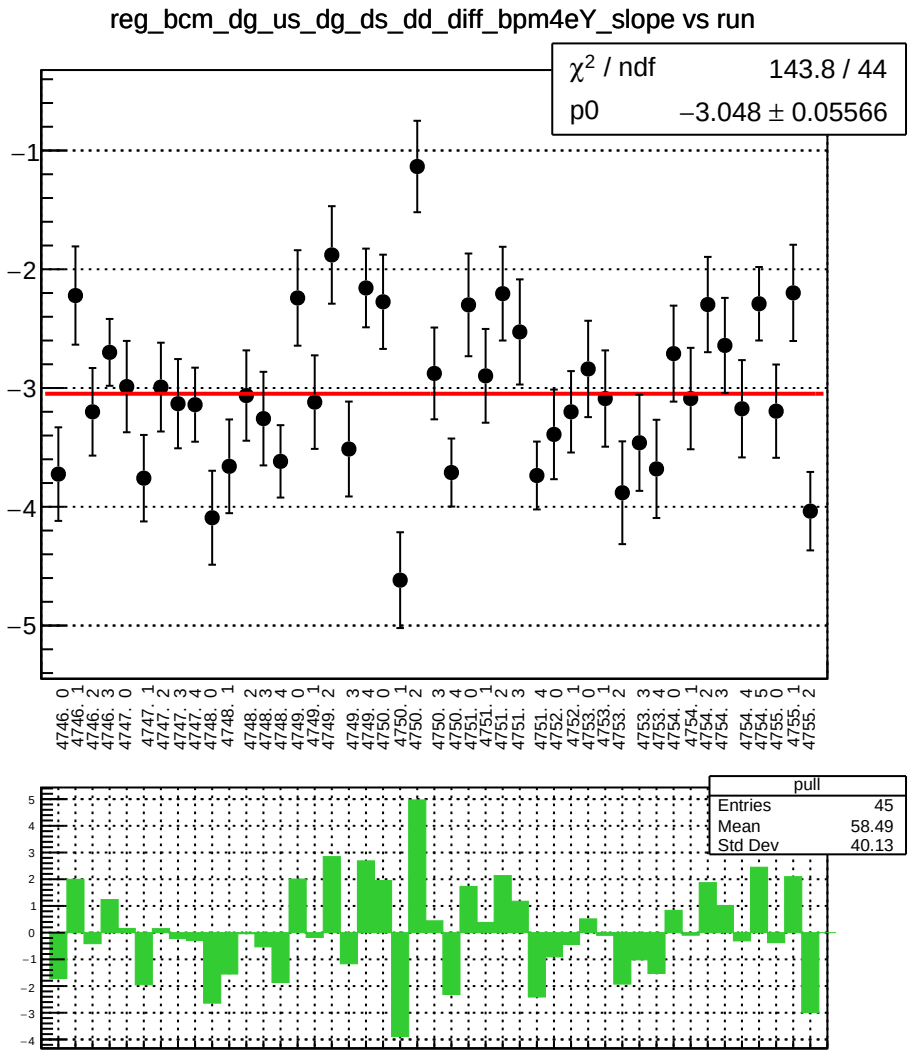

pull1D
Entries 45
Mean −0.0433
Std Dev 0.9998

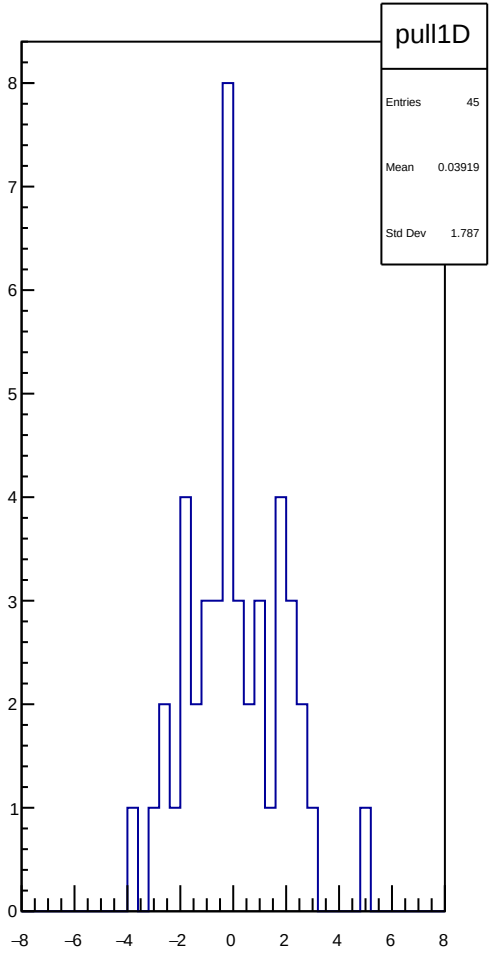

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 112.4 / 44
p0 1.256 ± 0.03831
2.5
2
1.5
1
0.5
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 135
Std Dev 111.1
4
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.05743
Std Dev 1.579
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

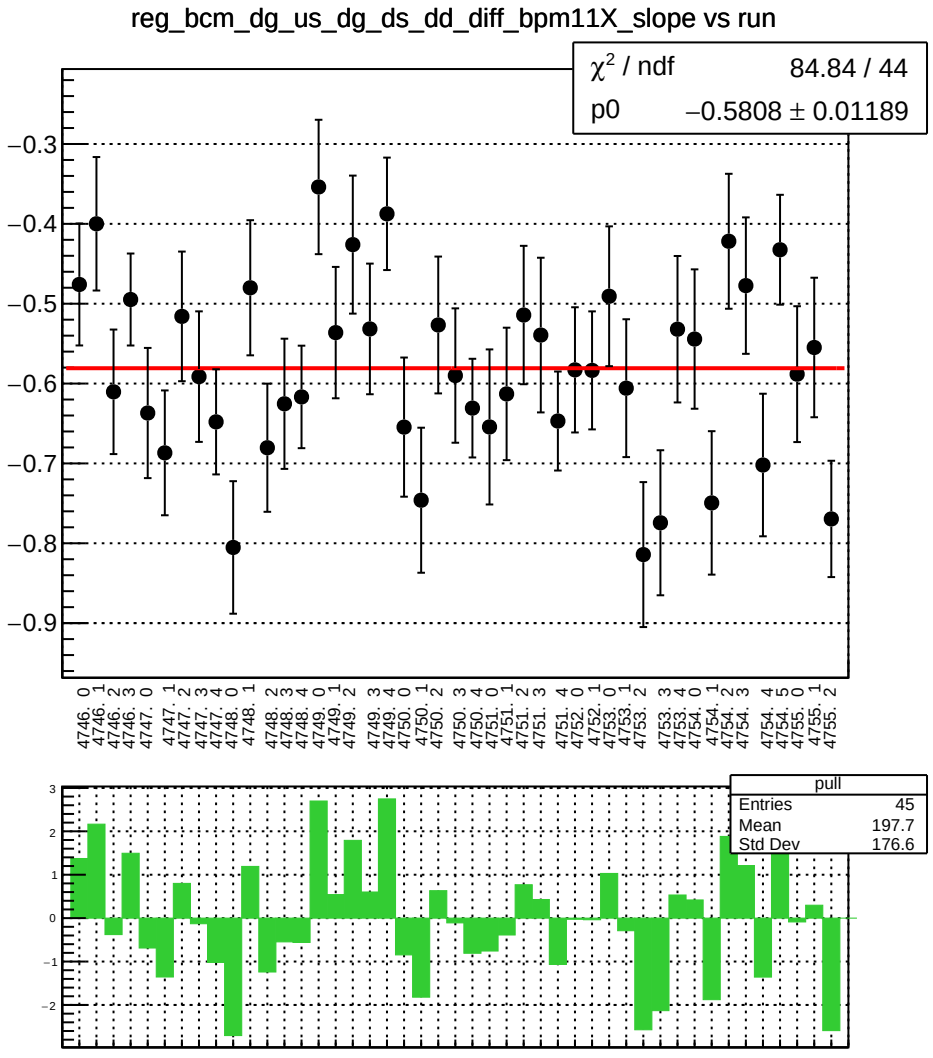

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 145.8 / 44
p0 2.952 ± 0.04784
pull
Entries 45
Mean 21.85
Std Dev 17.49
pull1D
Entries 45
Mean −0.04668
Std Dev 1.799

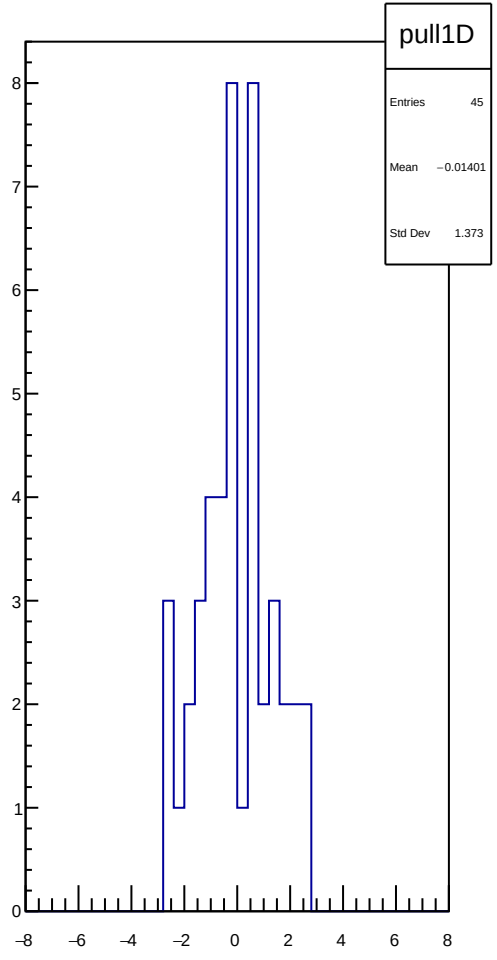

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 196.2 / 44
p0 −0.5089 ± 0.007704
pull
Entries 45
Mean 269.7
Std Dev 247.7

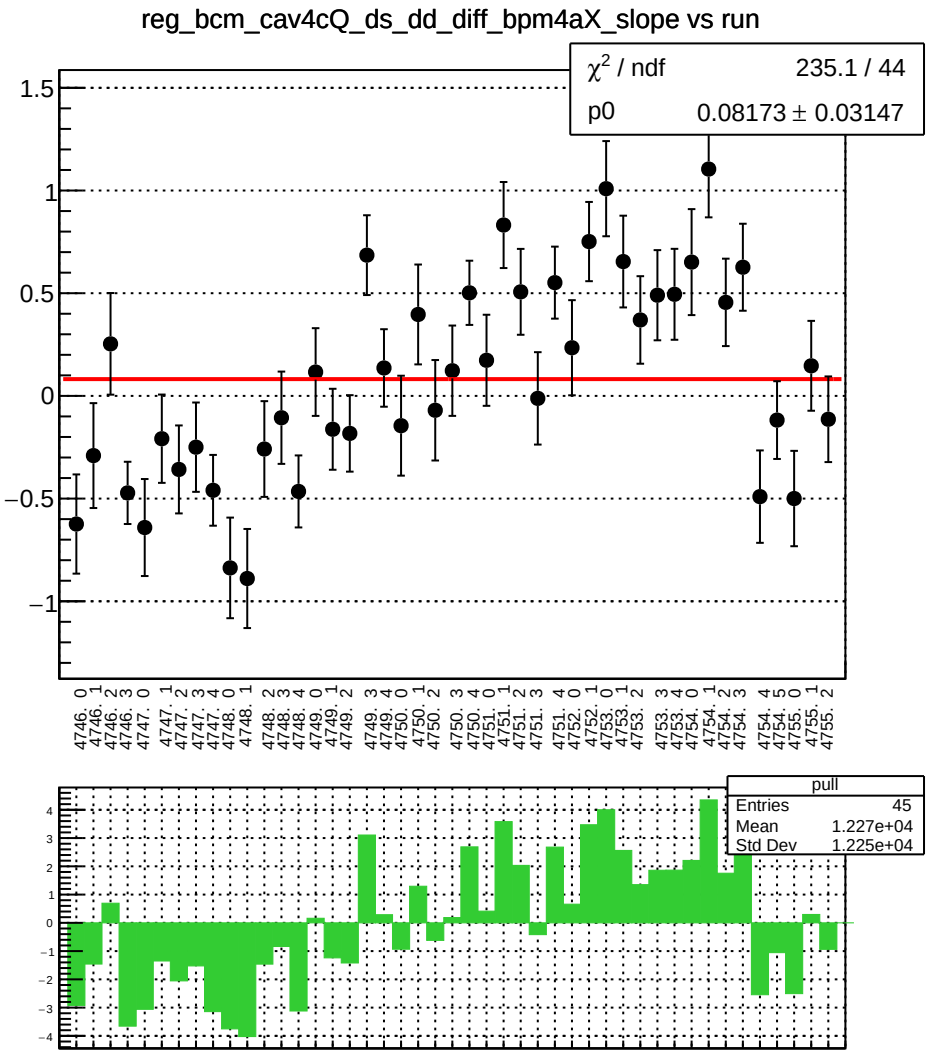

pull1D
Entries 45
Mean −0.02689
Std Dev 2.088

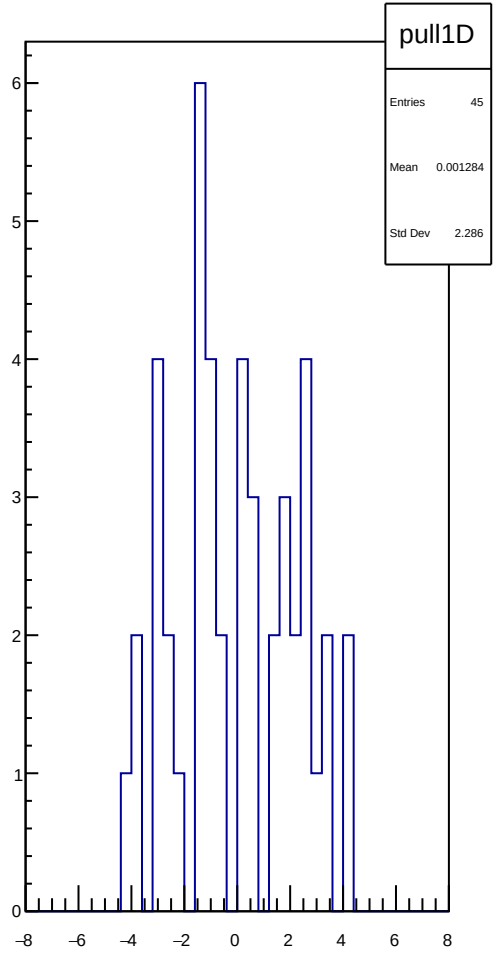

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 143.8 / 44
p0 −3.048 ± 0.05566
pull
Entries 45
Mean 58.49
Std Dev 40.13

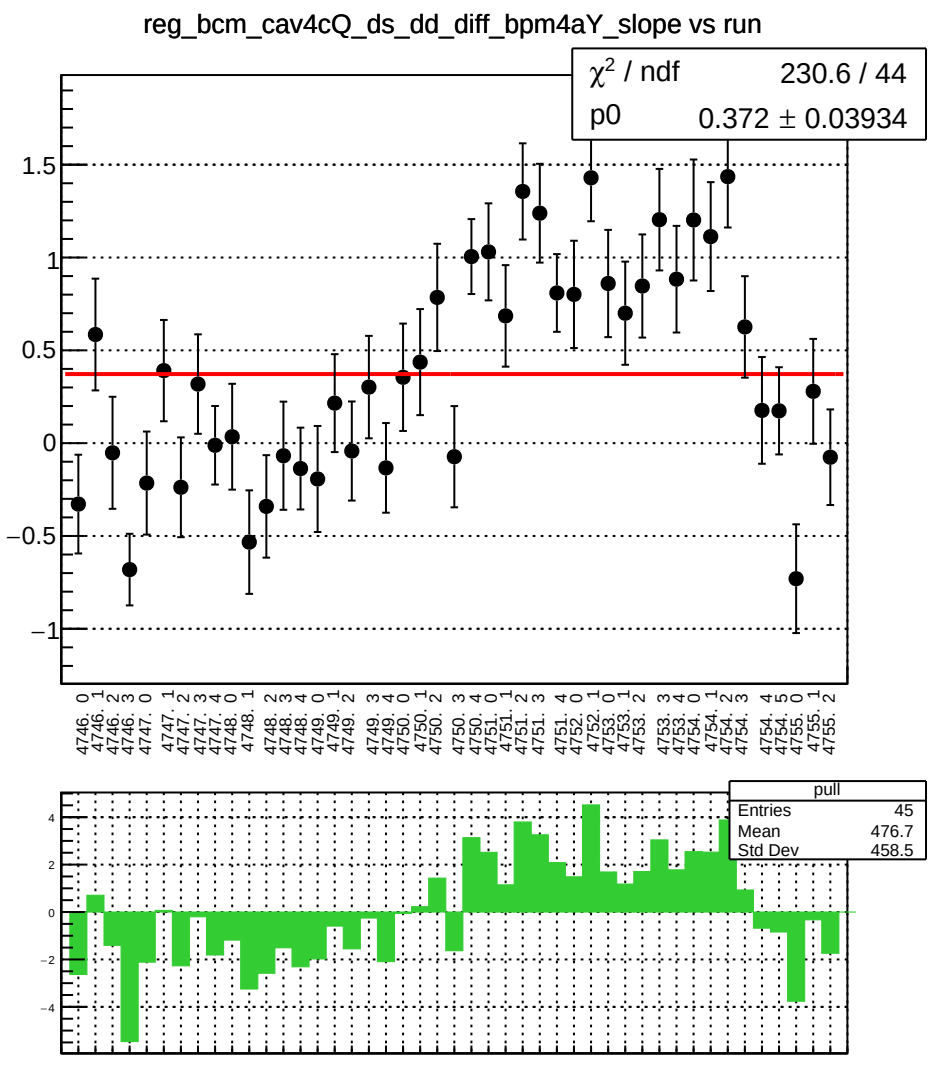

pull1D
Entries 45
Mean 0.03919
Std Dev 1.787

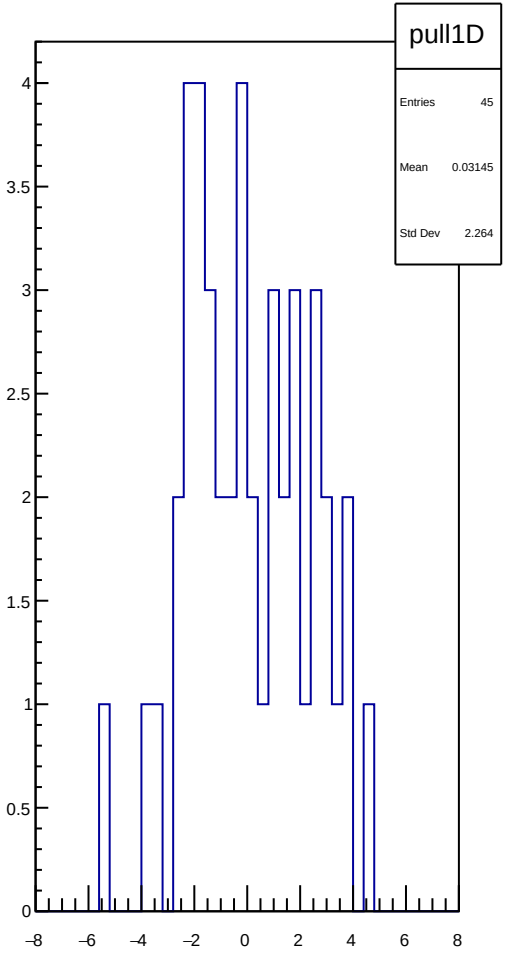

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 84.84 / 44
p0 −0.5808 ± 0.01189
pull
Entries 45
Mean 197.7
Std Dev 176.6

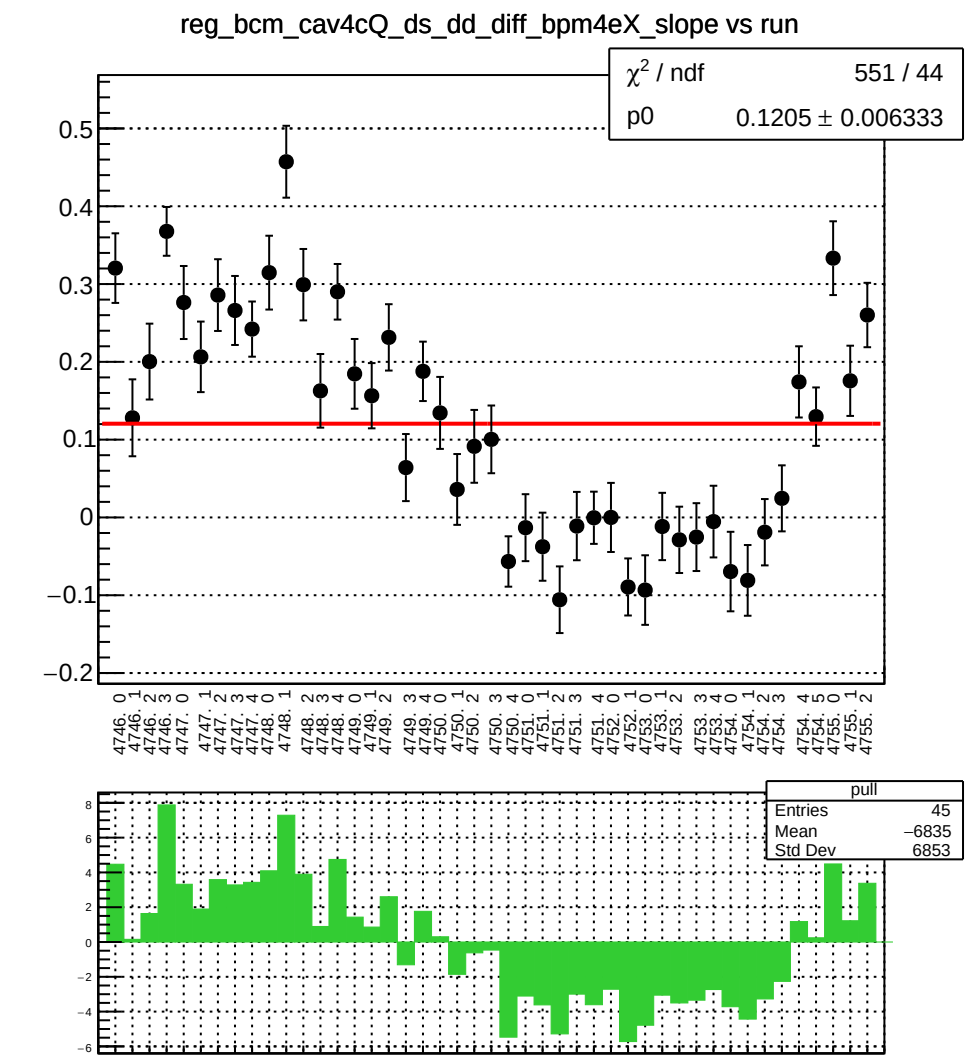

pull1D
Entries 45
Mean −0.01401
Std Dev 1.373

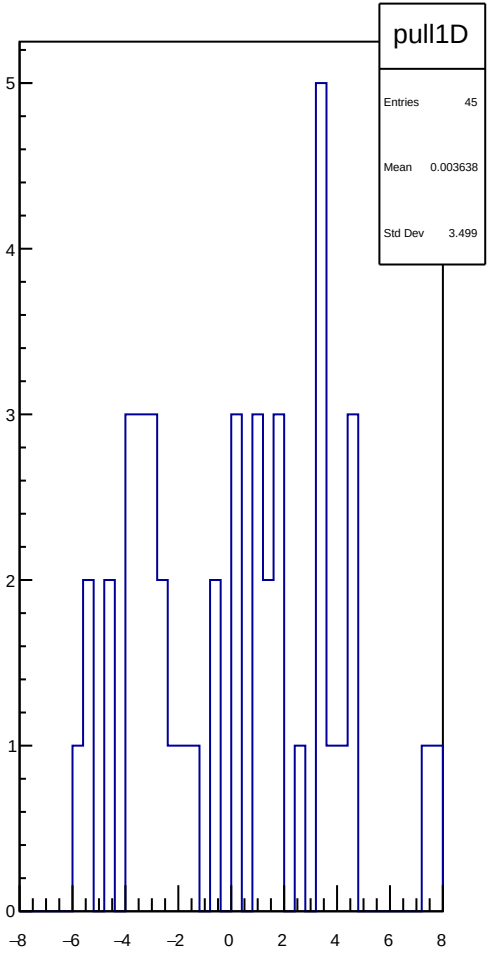

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 235.1 / 44
p0 0.08173 ± 0.03147
pull
Entries 45
Mean 1.227e+04
Std Dev 1.225e+04

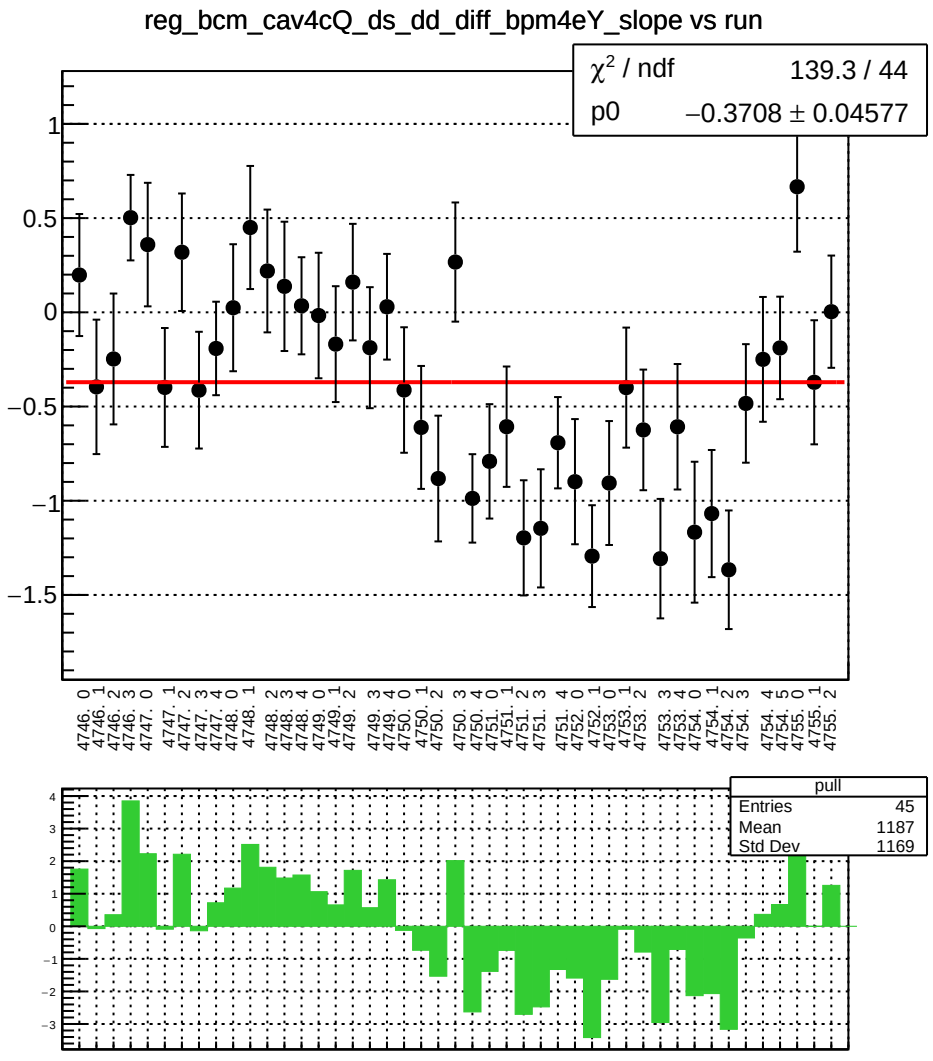

pull1D
Entries 45
Mean 0.001284
Std Dev 2.286

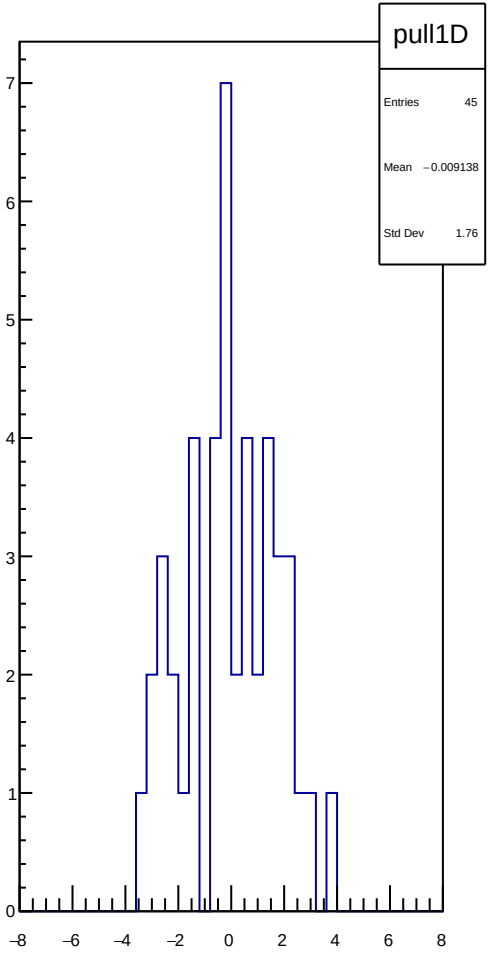

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 230.6 / 44
p0 0.372 ± 0.03934
pull
Entries 45
Mean 476.7
Std Dev 458.5

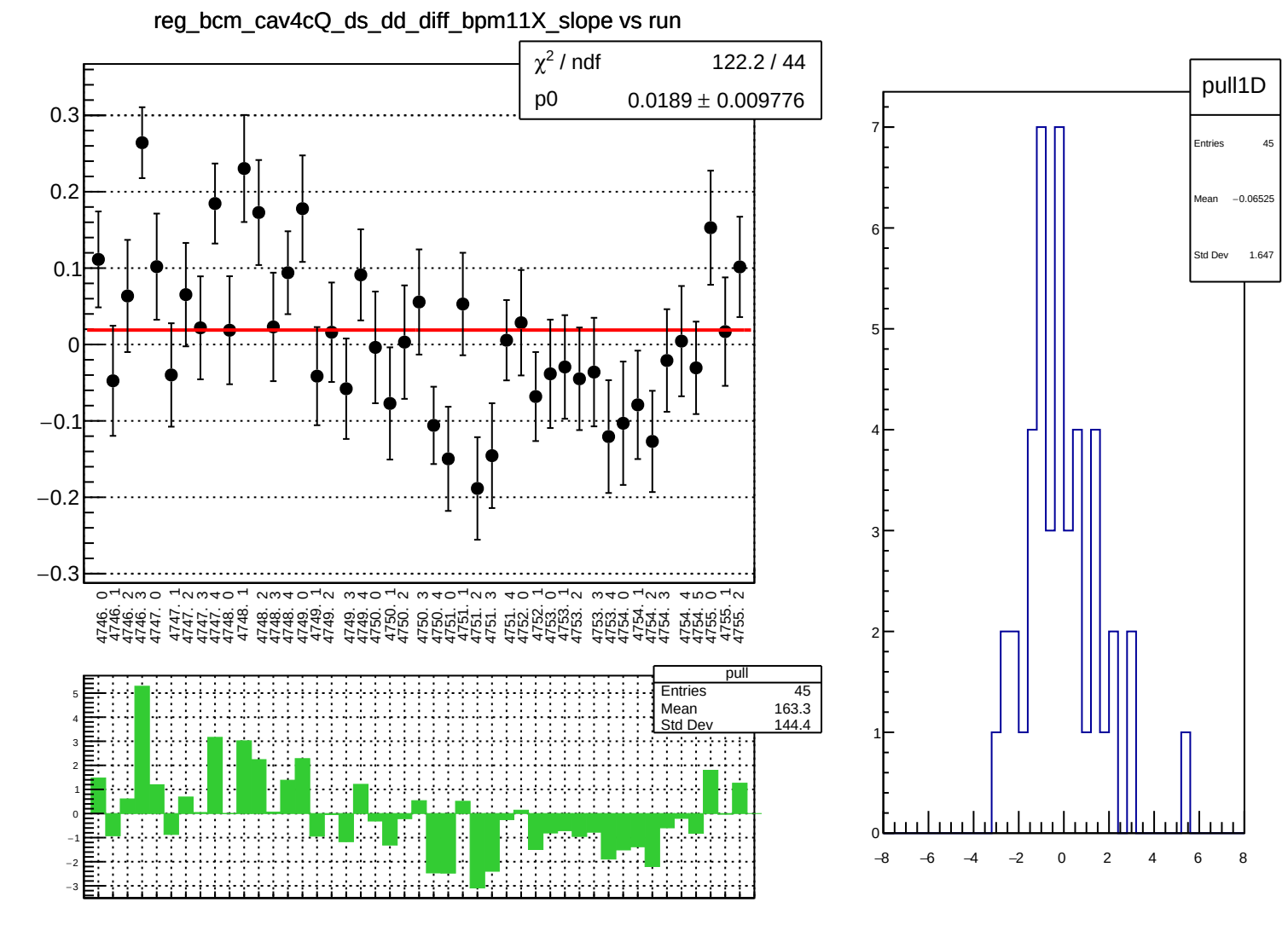

pull1D
Entries 45
Mean 0.03145
Std Dev 2.264

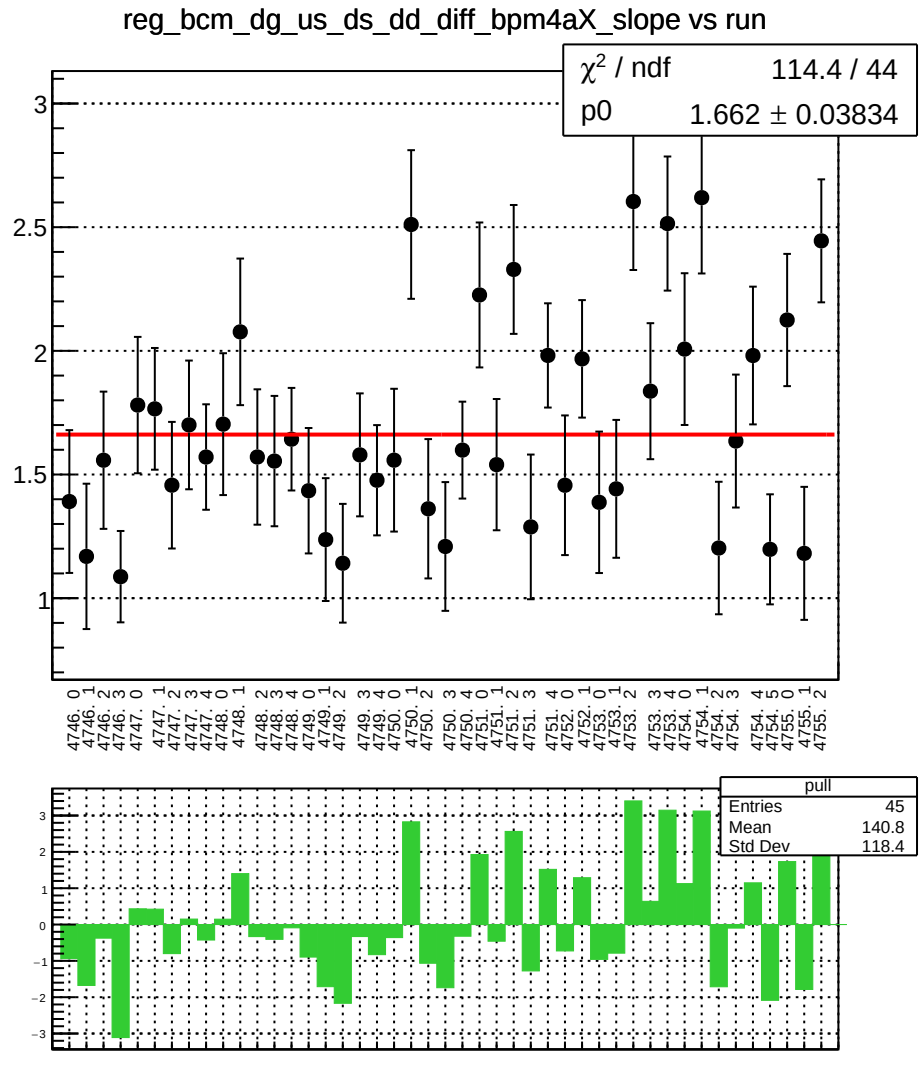

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 551 / 44
p0 0.1205 ± 0.006333
pull
Entries 45
Mean −6835
Std Dev 6853

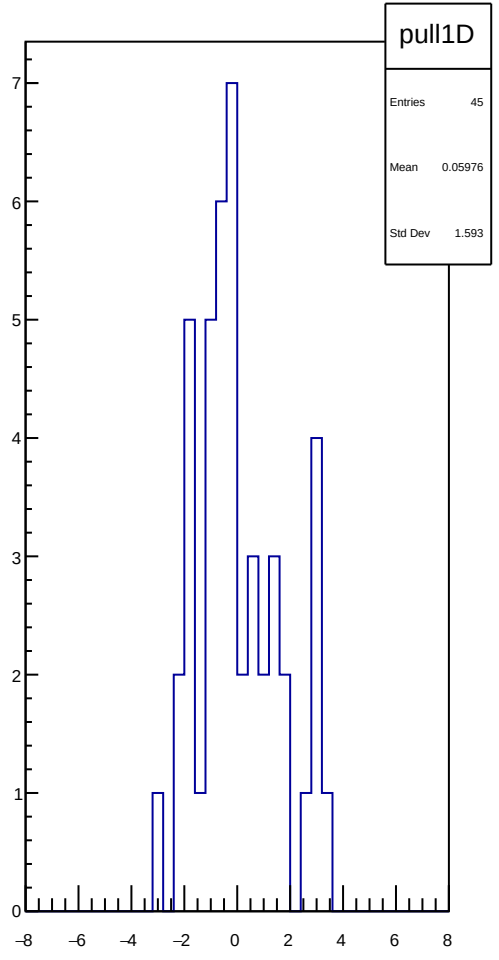

pull1D
Entries 45
Mean 0.003638
Std Dev 3.499

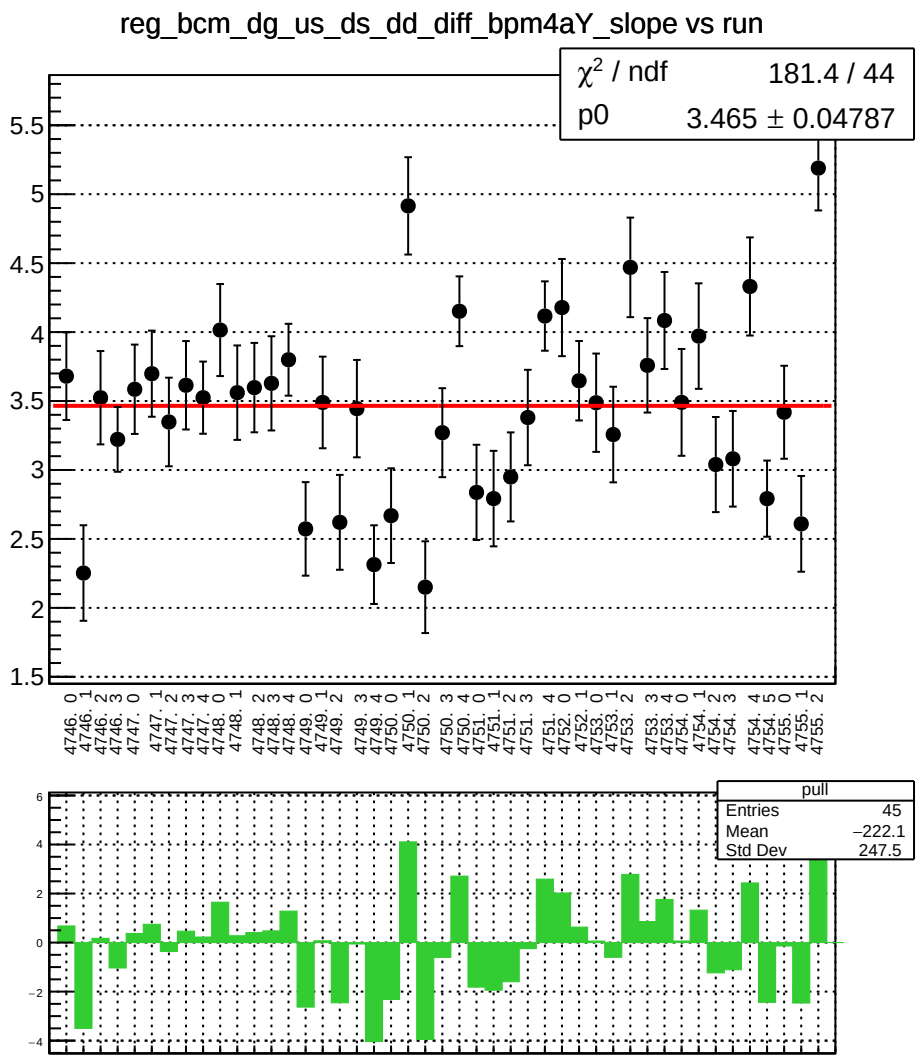

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 139.3 / 44
p0 −0.3708 ± 0.04577
pull
Entries 45
Mean 1187
Std Dev 1169

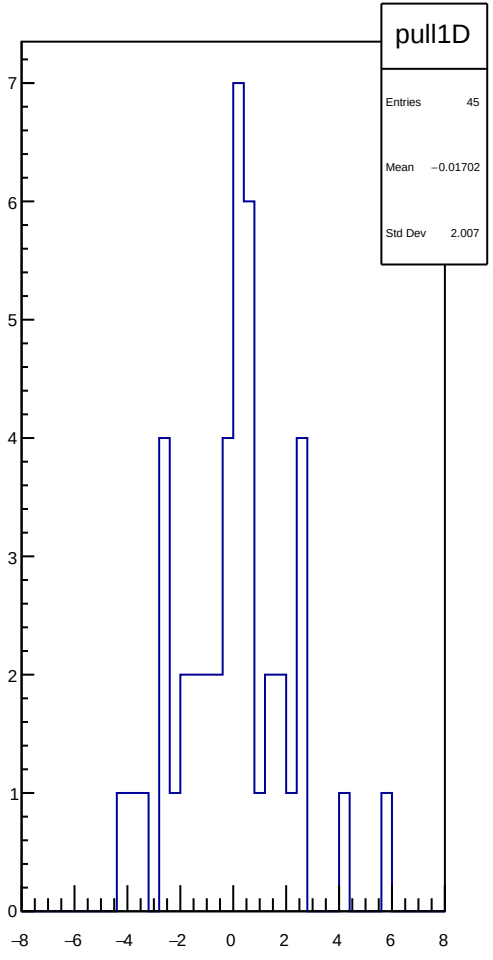

pull1D
Entries 45
Mean −0.009138
Std Dev 1.76

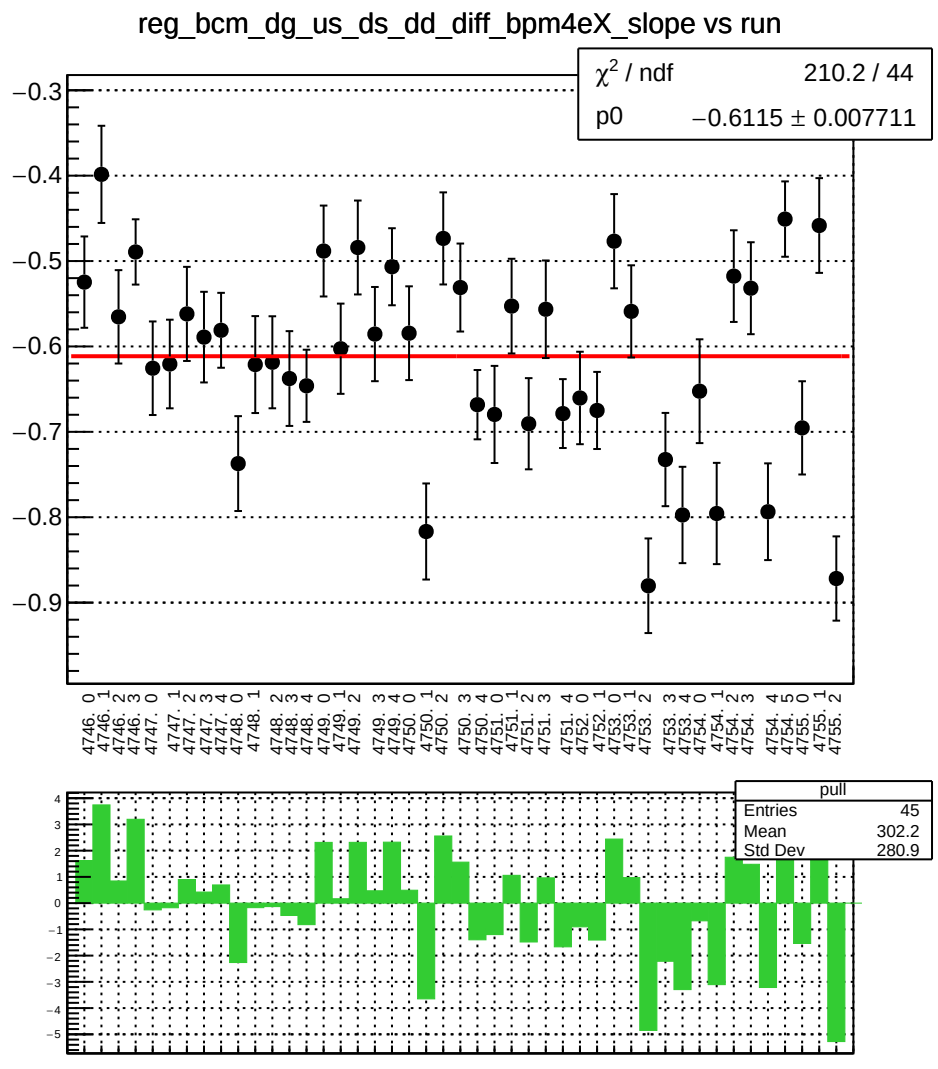

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 122.2 / 44
p0 0.0189 ± 0.009776
pull
Entries 45
Mean 163.3
Std Dev 144.4
pull1D
Entries 45
Mean −0.06525
Std Dev 1.647

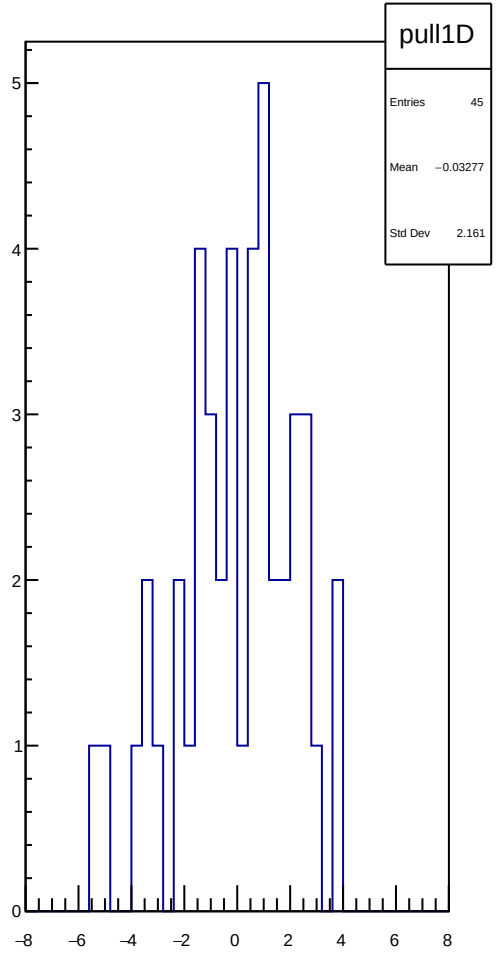

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 114.4 / 44
p0 1.662 ± 0.03834
pull
Entries 45
Mean 140.8
Std Dev 118.4

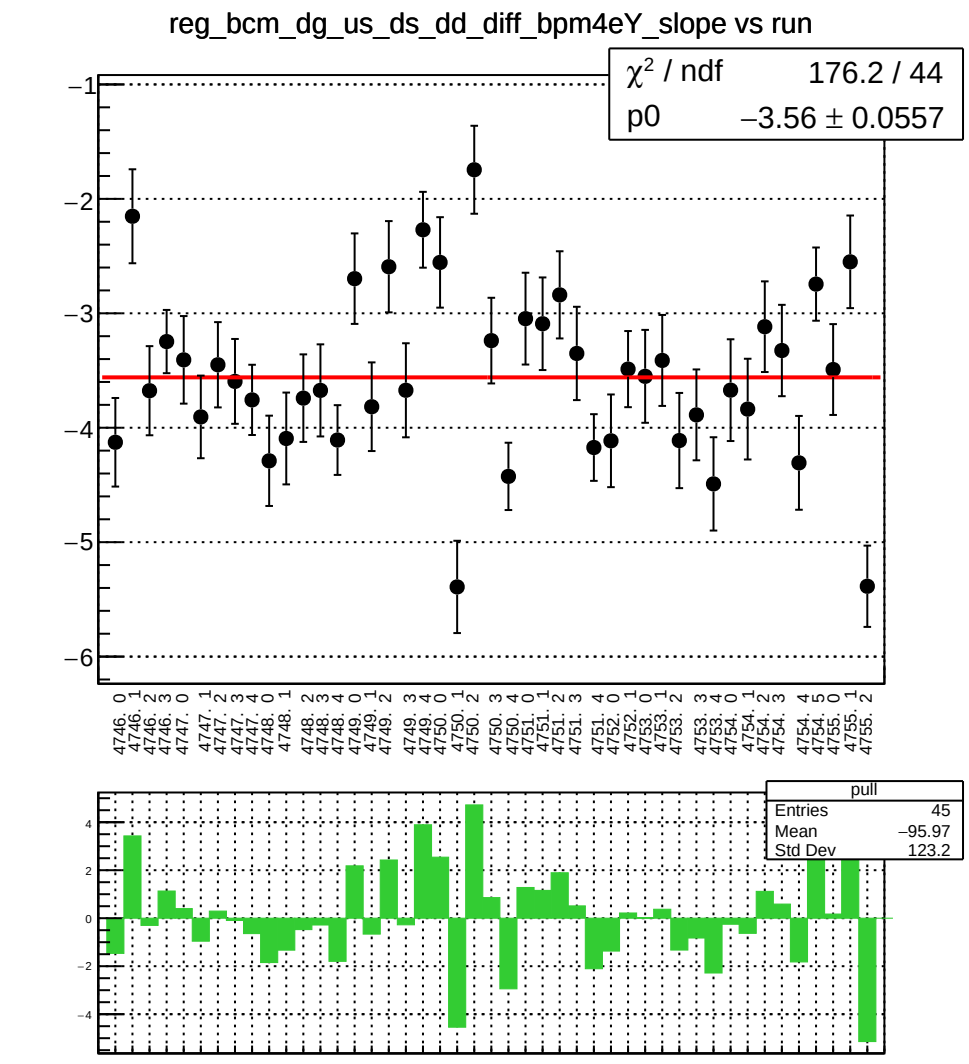

pull1D
Entries 45
Mean 0.05976
Std Dev 1.593

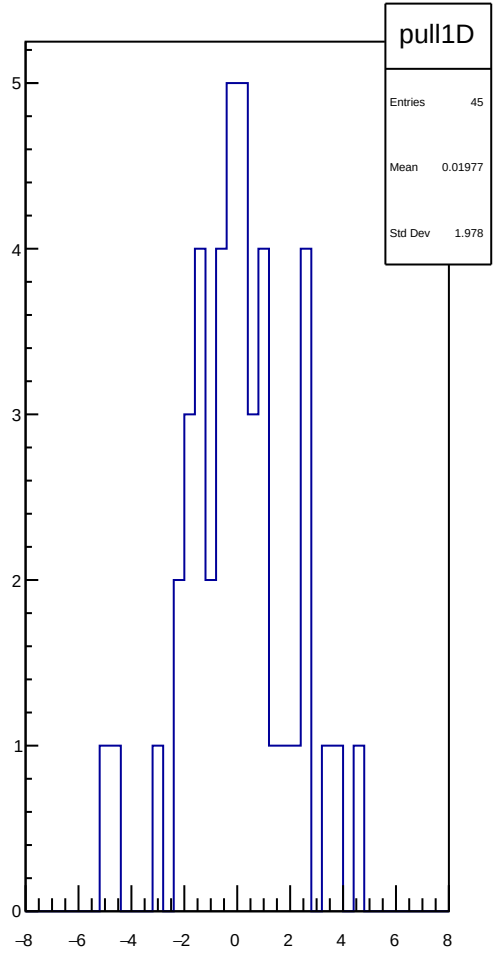

reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 181.4 / 44
p0 3.465 ± 0.04787
pull
Entries 45
Mean −222.1
Std Dev 247.5

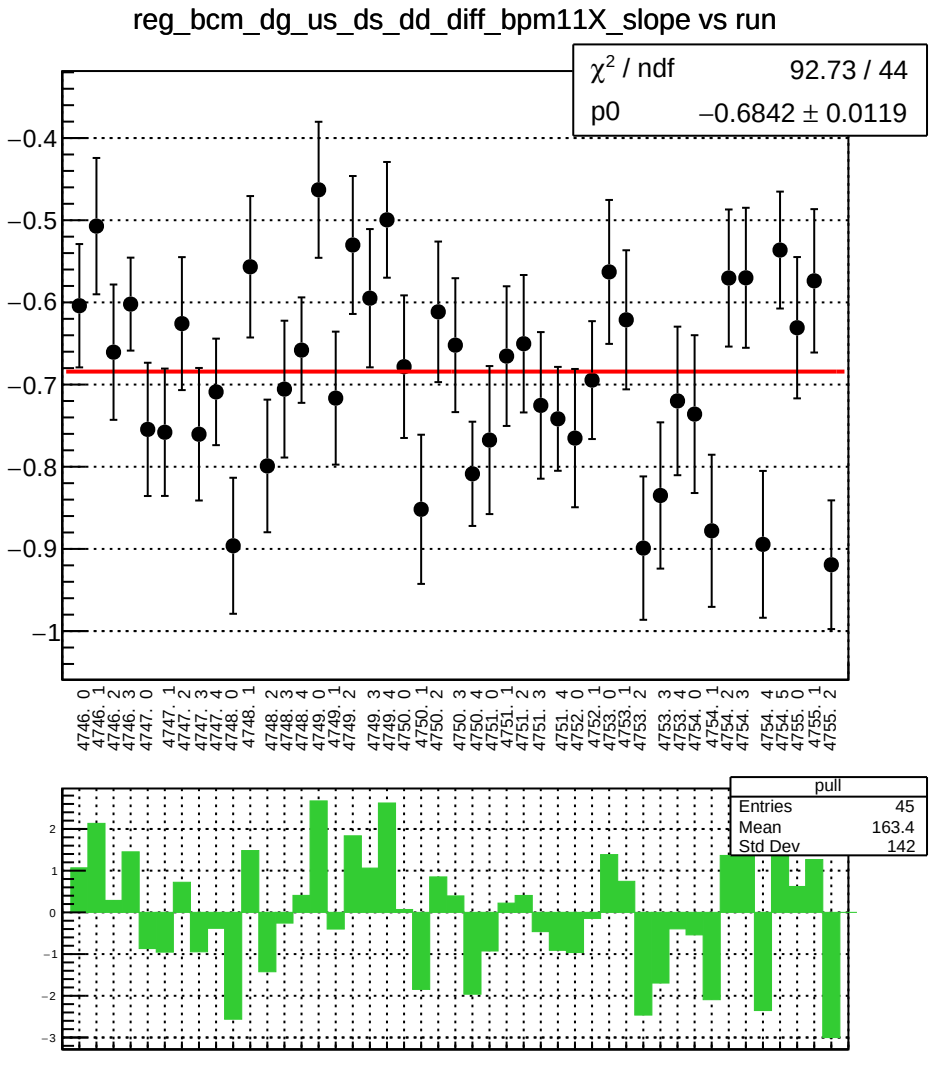

pull1D
Entries 45
Mean −0.01702
Std Dev 2.007

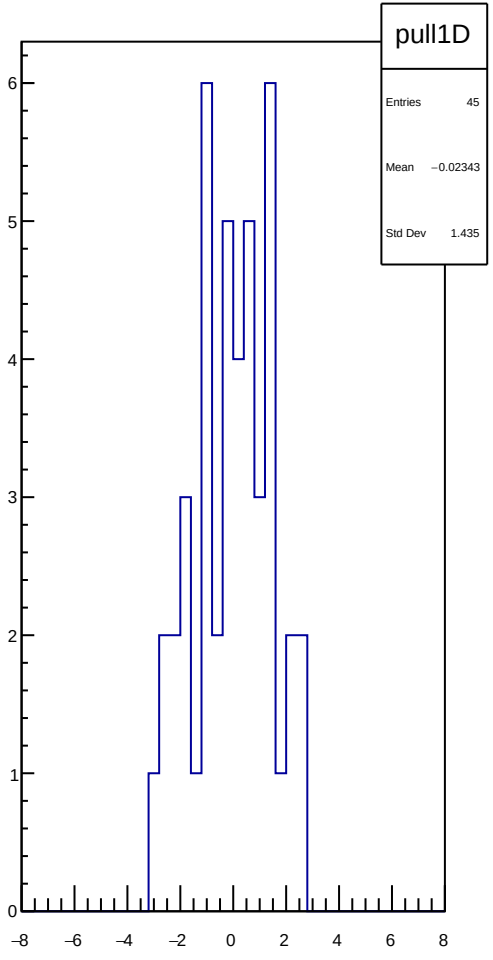

reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 210.2 / 44
p0 −0.6115 ± 0.007711
pull
Entries 45
Mean 302.2
Std Dev 280.9

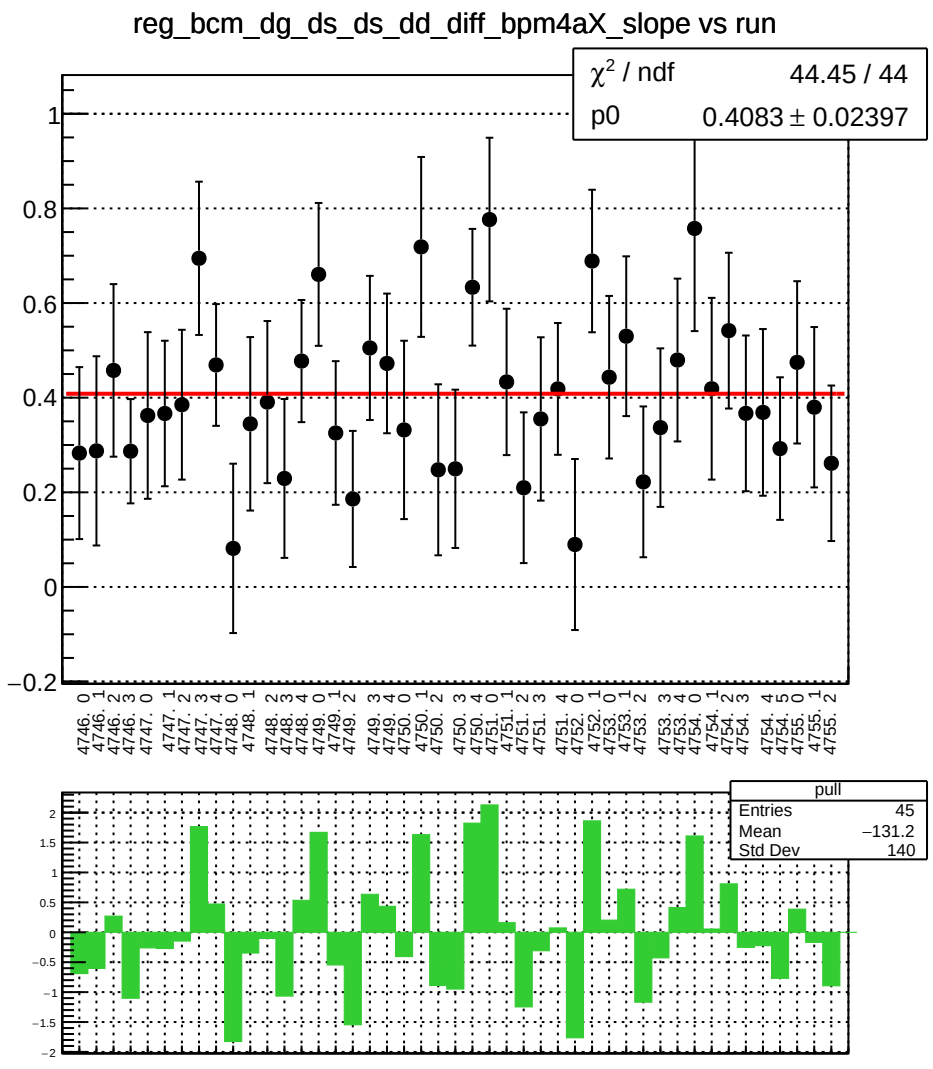

pull1D
Entries 45
Mean −0.03277
Std Dev 2.161

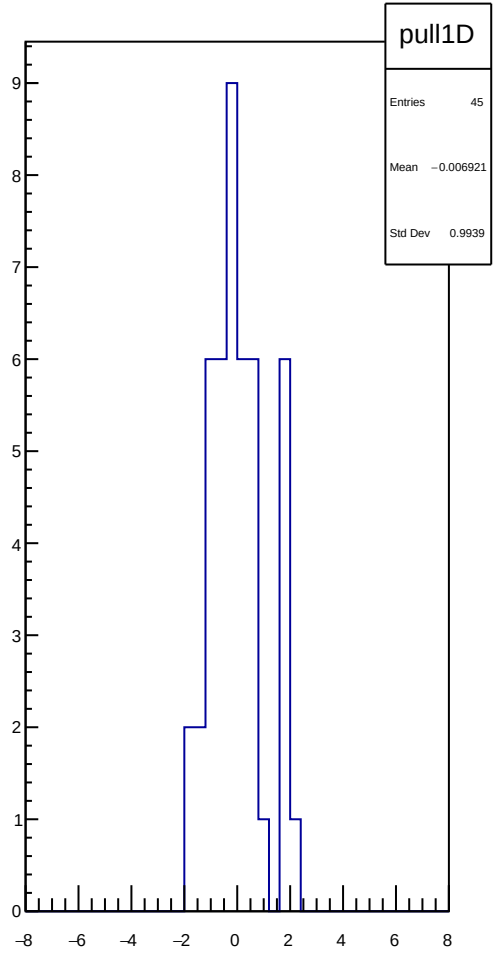

reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 176.2 / 44
p0 −3.56 ± 0.0557
pull
Entries 45
Mean −95.97
Std Dev 123.2

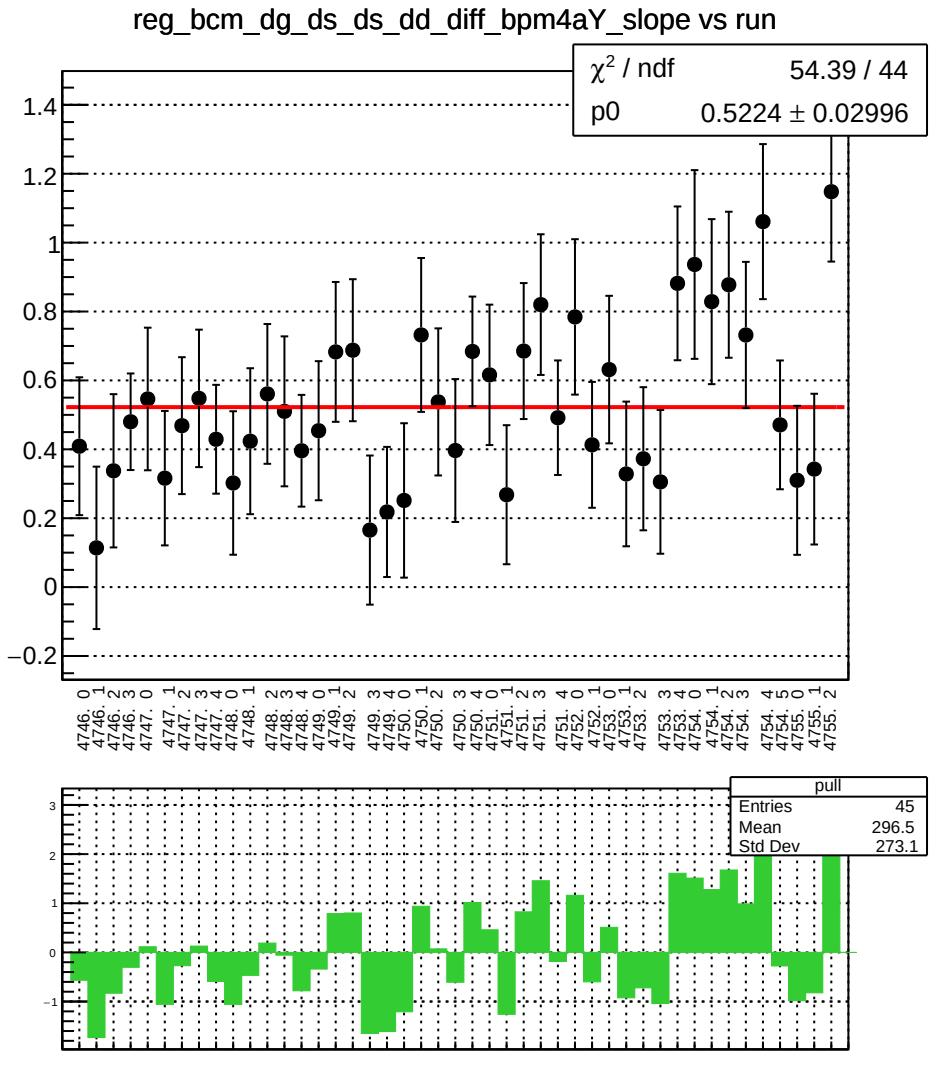

pull1D
Entries 45
Mean 0.01977
Std Dev 1.978

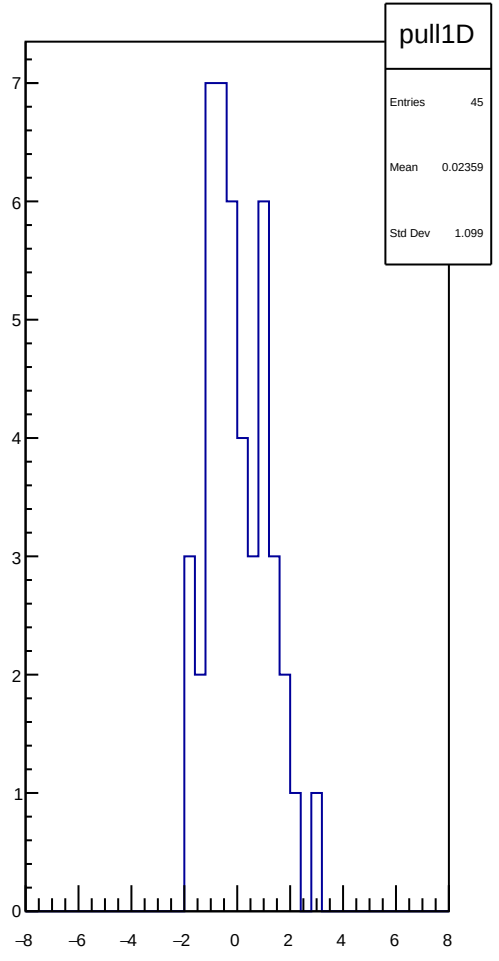

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 92.73 / 44
p0 −0.6842 ± 0.0119
pull
Entries 45
Mean 163.4
Std Dev 142

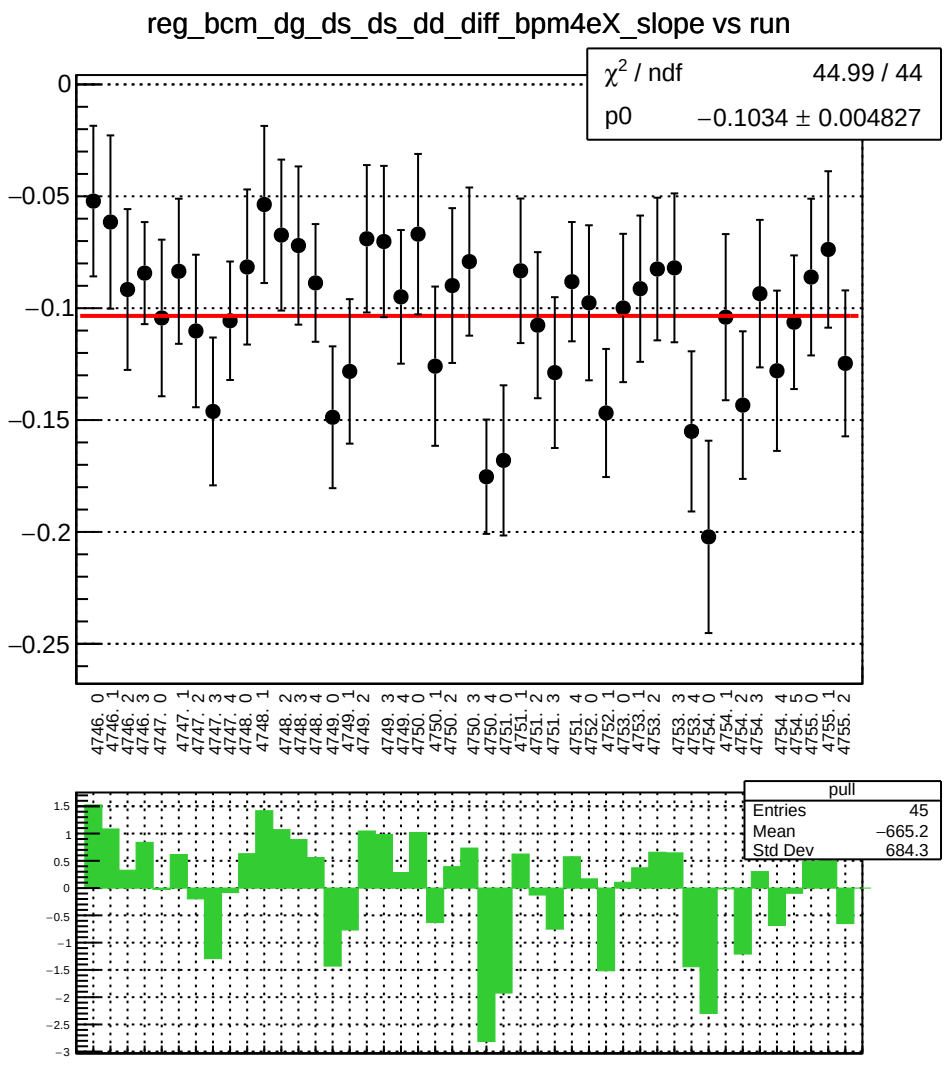

pull1D
Entries 45
Mean −0.02343
Std Dev 1.435

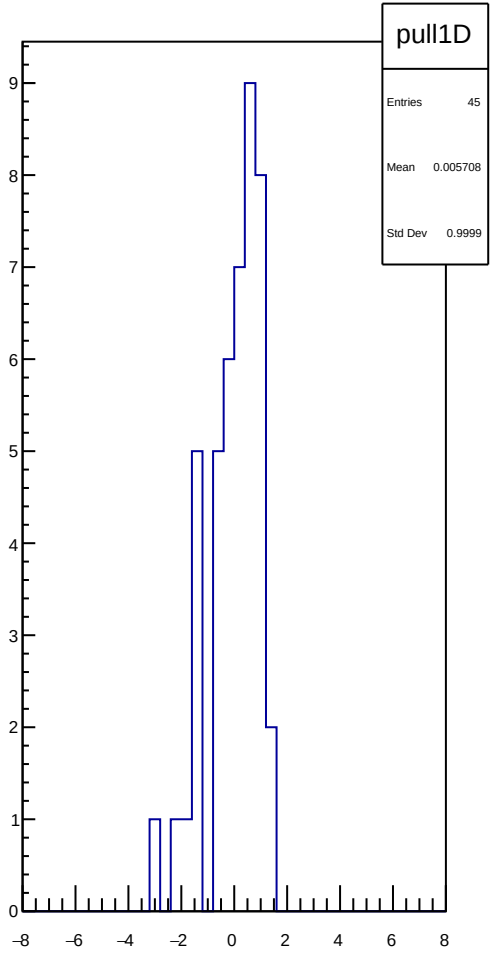

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 44.45 / 44
p0 0.4083 ± 0.02397
pull
Entries 45
Mean −131.2
Std Dev 140

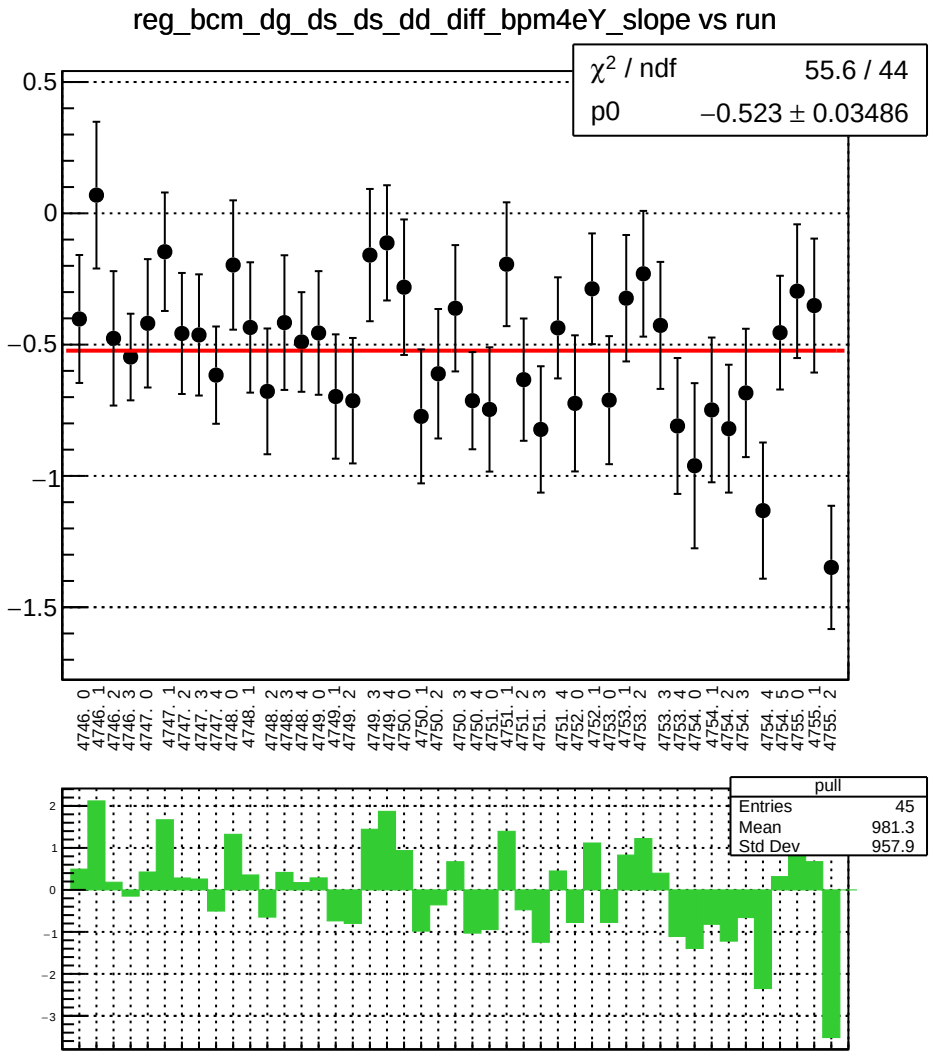

pull1D
Entries 45
Mean −0.006921
Std Dev 0.9939

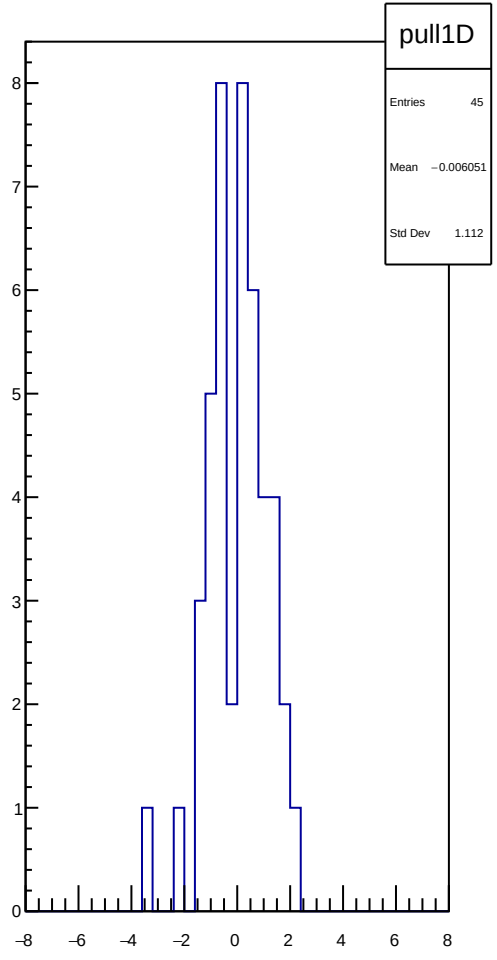

reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 54.39 / 44
p0 0.5224 ± 0.02996
pull
Entries 45
Mean 296.5
Std Dev 273.1

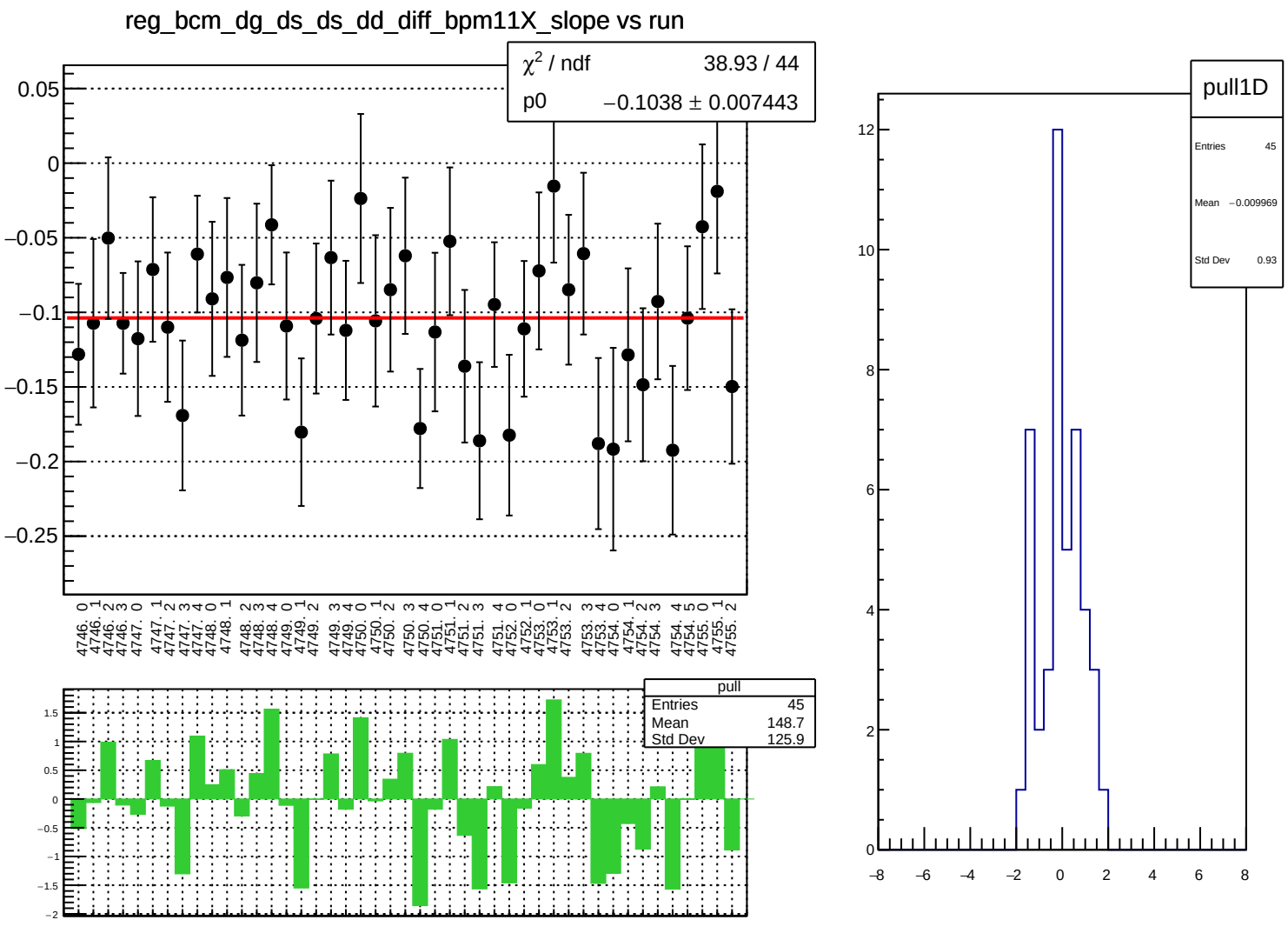

pull1D
Entries 45
Mean 0.02359
Std Dev 1.099


reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.99 / 44
p0 −0.1034 ± 0.004827
pull
Entries 45
Mean −665.2
Std Dev 684.3


pull1D
Entries 45
Mean 0.005708
Std Dev 0.9999


reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.6 / 44
p0 −0.523 ± 0.03486
pull
Entries 45
Mean 981.3
Std Dev 957.9


pull1D
Entries 45
Mean −0.006051
Std Dev 1.112


reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 38.93 / 44
p0 −0.1038 ± 0.007443
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
4746. 0
4746. 1
4746. 2
4746. 3
4747. 0
4747. 1
4747. 2
4747. 3
4747. 4
4748. 0
4748. 1
4748. 2
4748. 3
4748. 4
4749. 0
4749. 1
4749. 2
4749. 3
4749. 4
4750. 0
4750. 1
4750. 2
4750. 3
4750. 4
4751. 0
4751. 1
4751. 2
4751. 3
4751. 4
4752. 0
4752. 1
4753. 0
4753. 1
4753. 2
4753. 3
4753. 4
4754. 0
4754. 1
4754. 2
4754. 3
4754. 4
4754. 5
4755. 0
4755. 1
4755. 2
pull
Entries 45
Mean 148.7
Std Dev 125.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.009969
Std Dev 0.93
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8