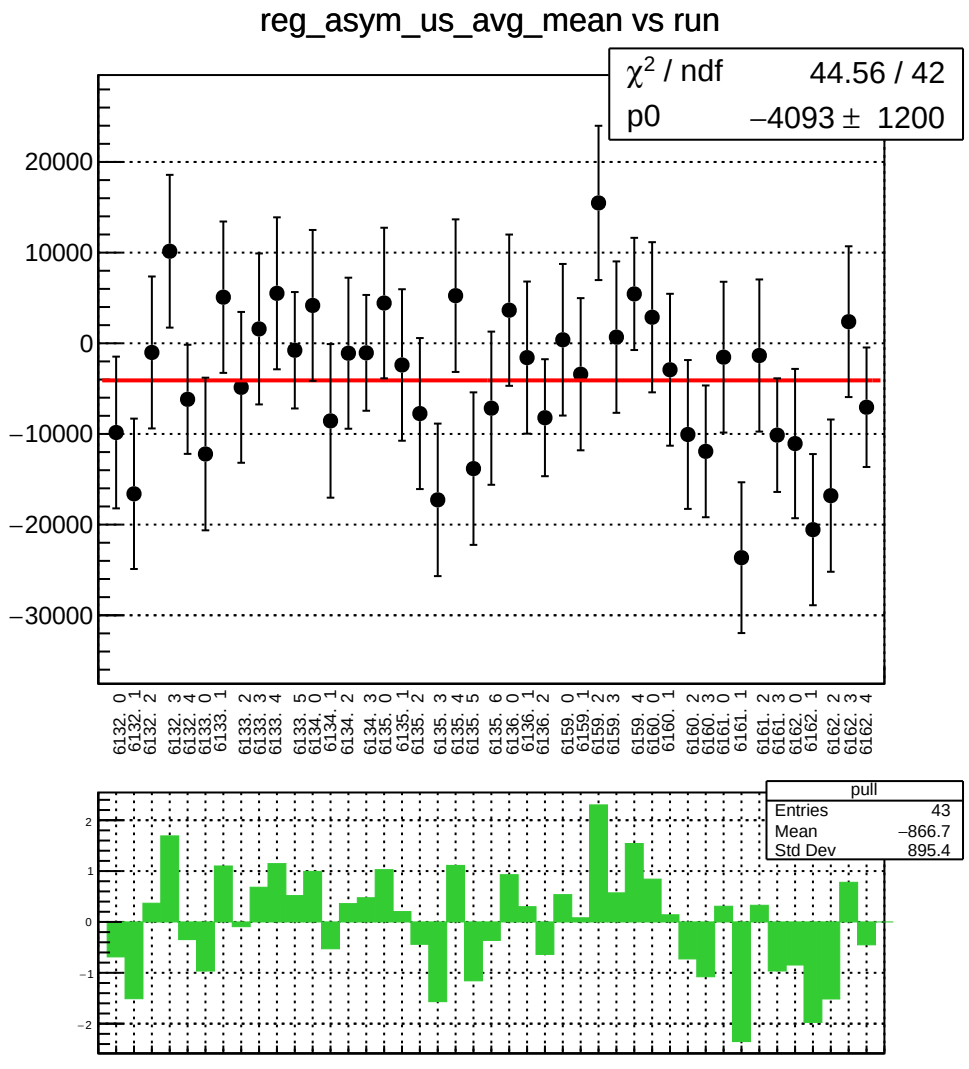
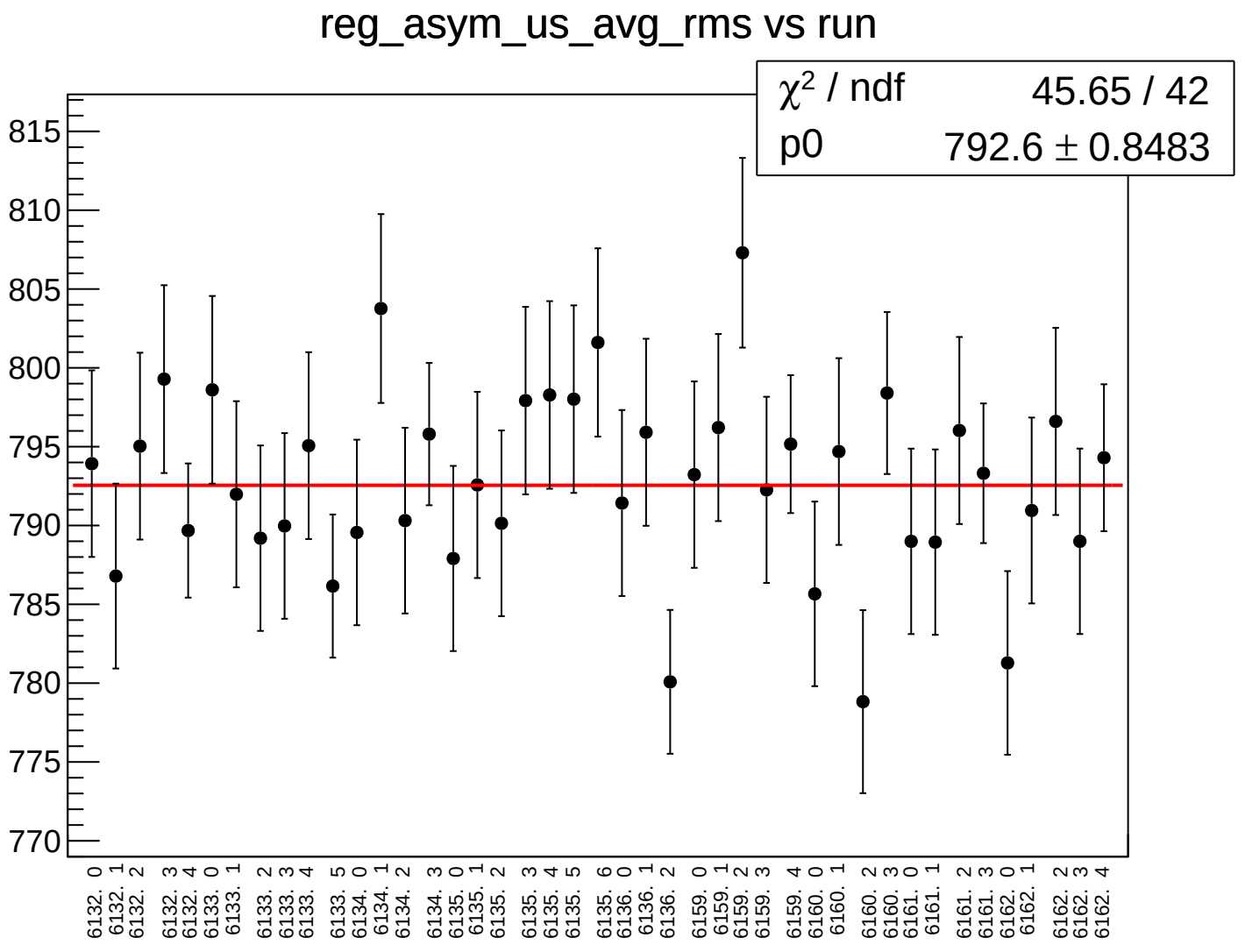
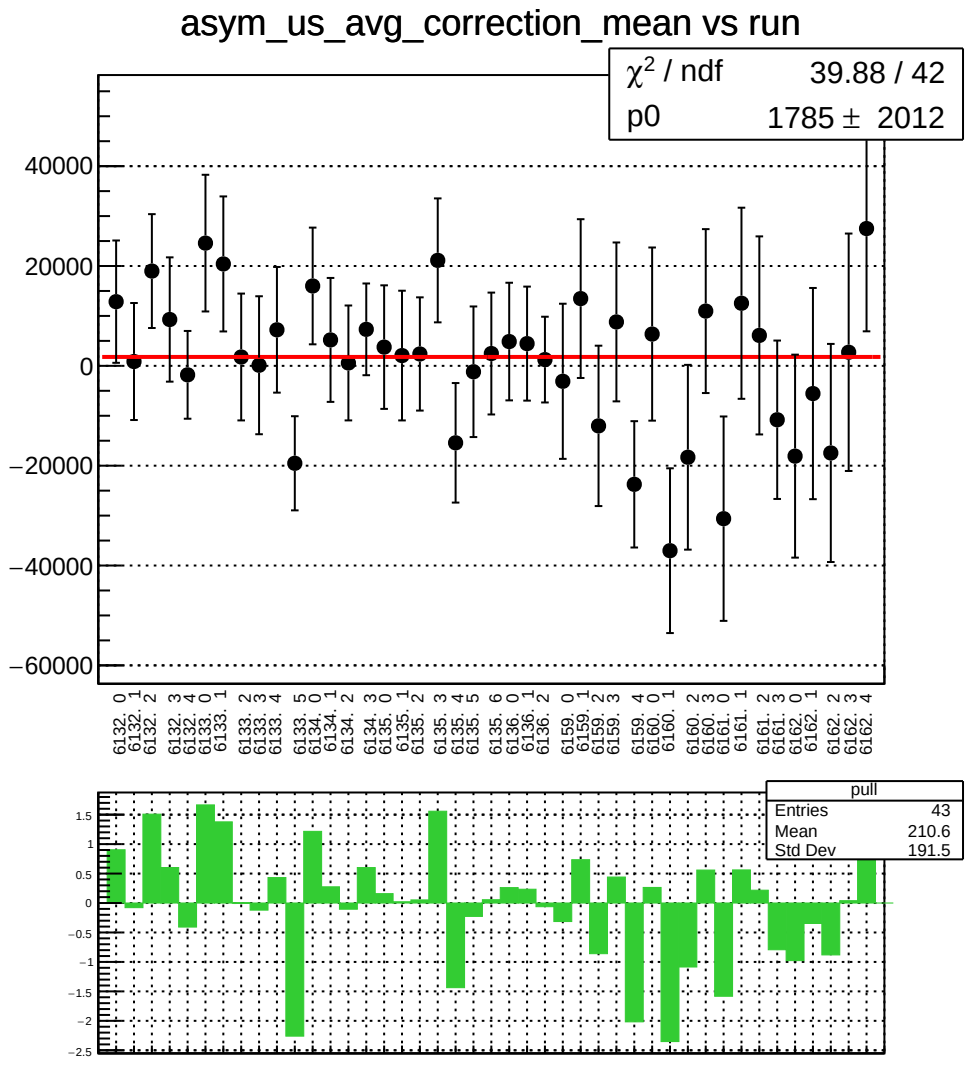
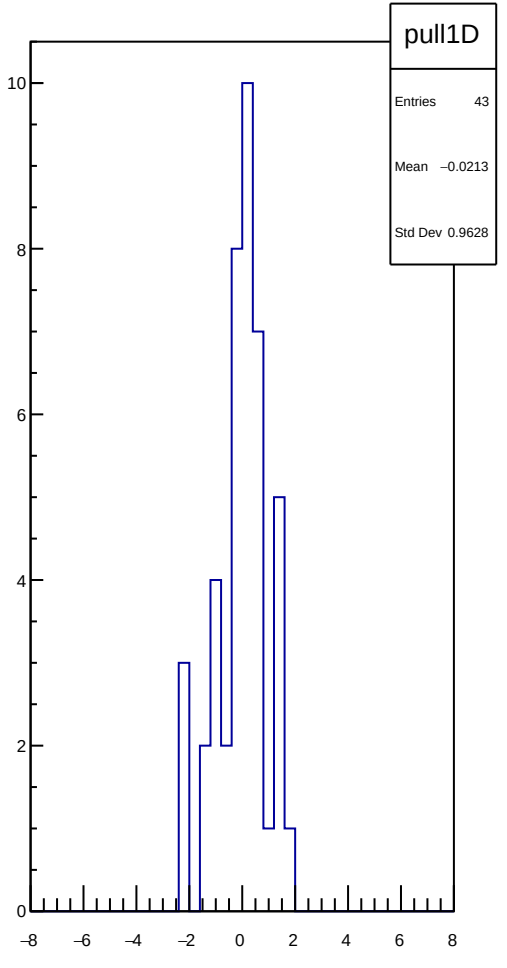
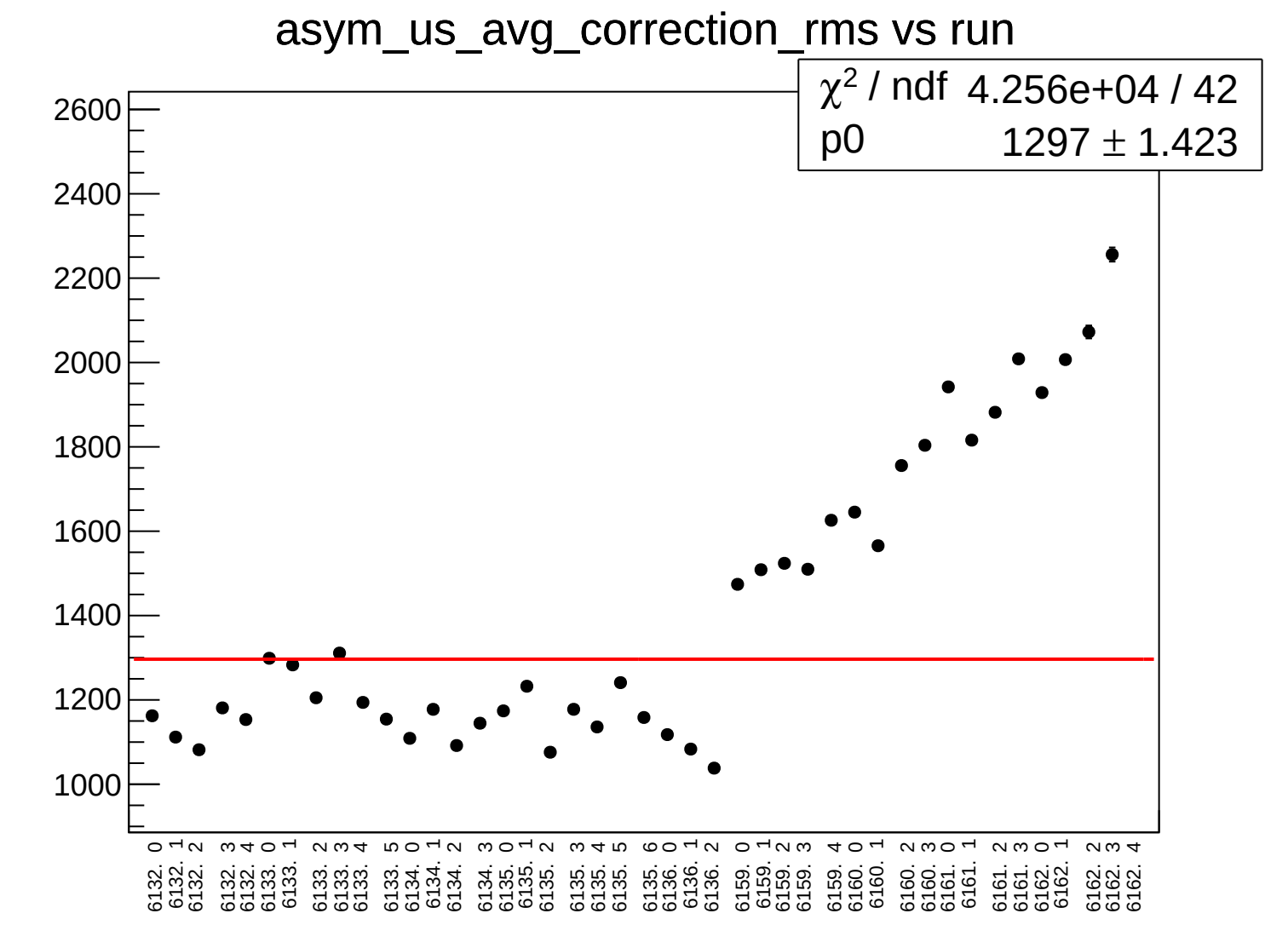
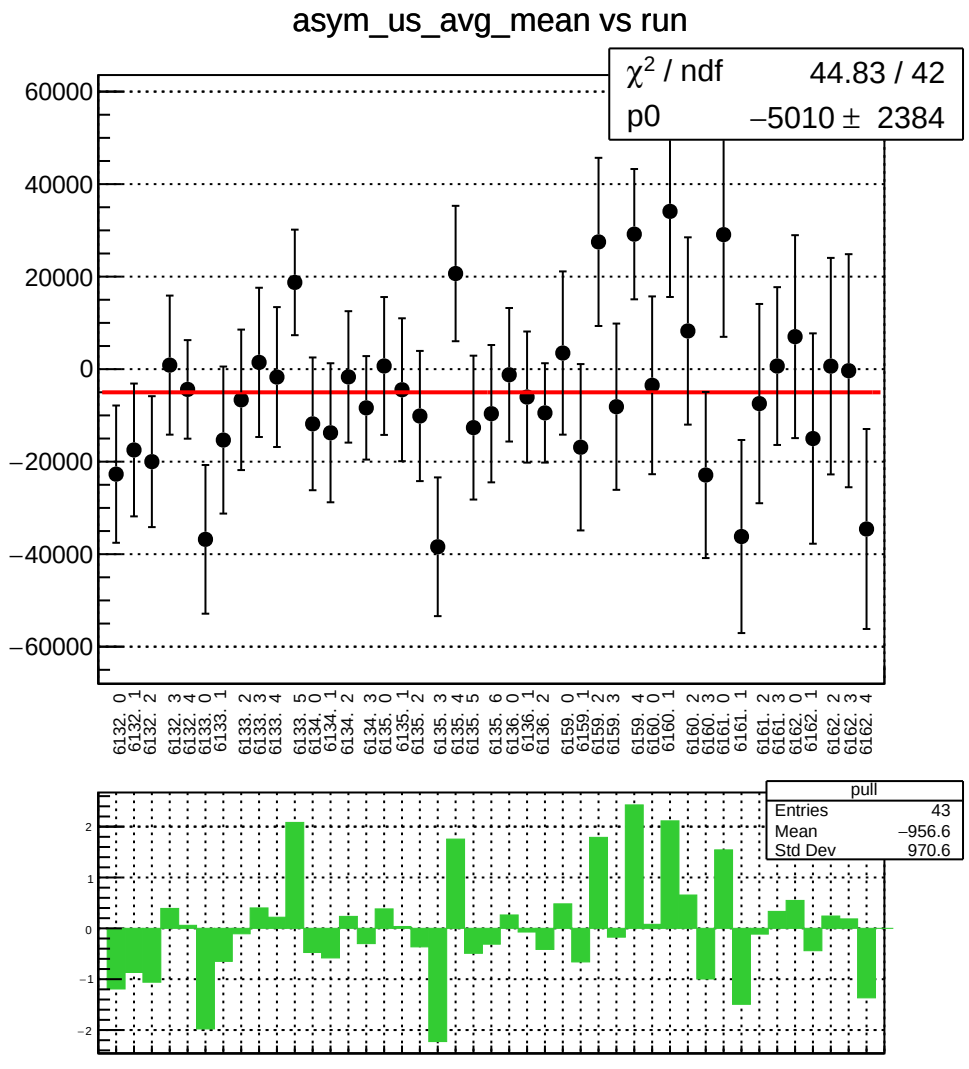

reg_asym_us_avg_mean vs run
χ² / ndf 44.56 / 42
p0 −4093 ± 1200
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −866.7
Std Dev 895.4
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.003137
Std Dev 1.018
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

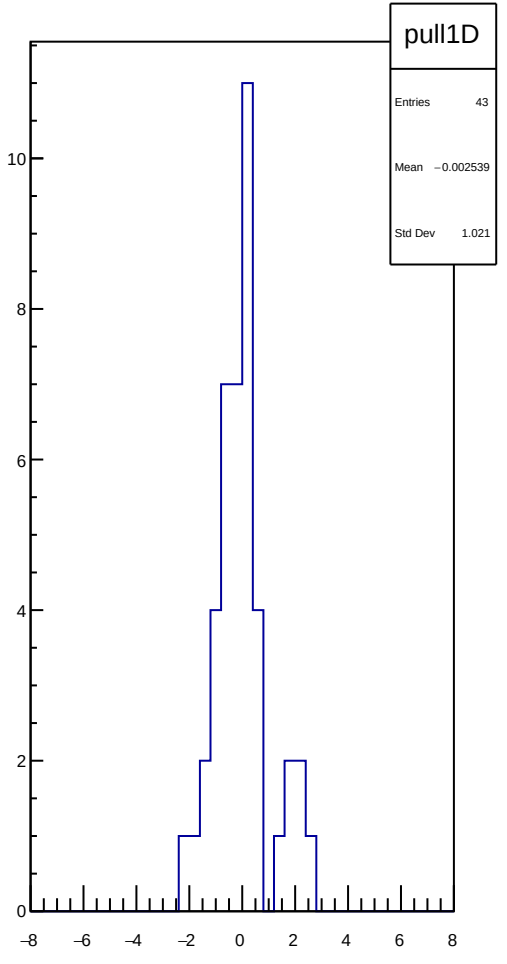

reg_asym_us_avg_rms vs run
χ² / ndf 45.65 / 42
p0 792.6 ± 0.8483
815
810
805
800
795
790
785
780
775
770
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

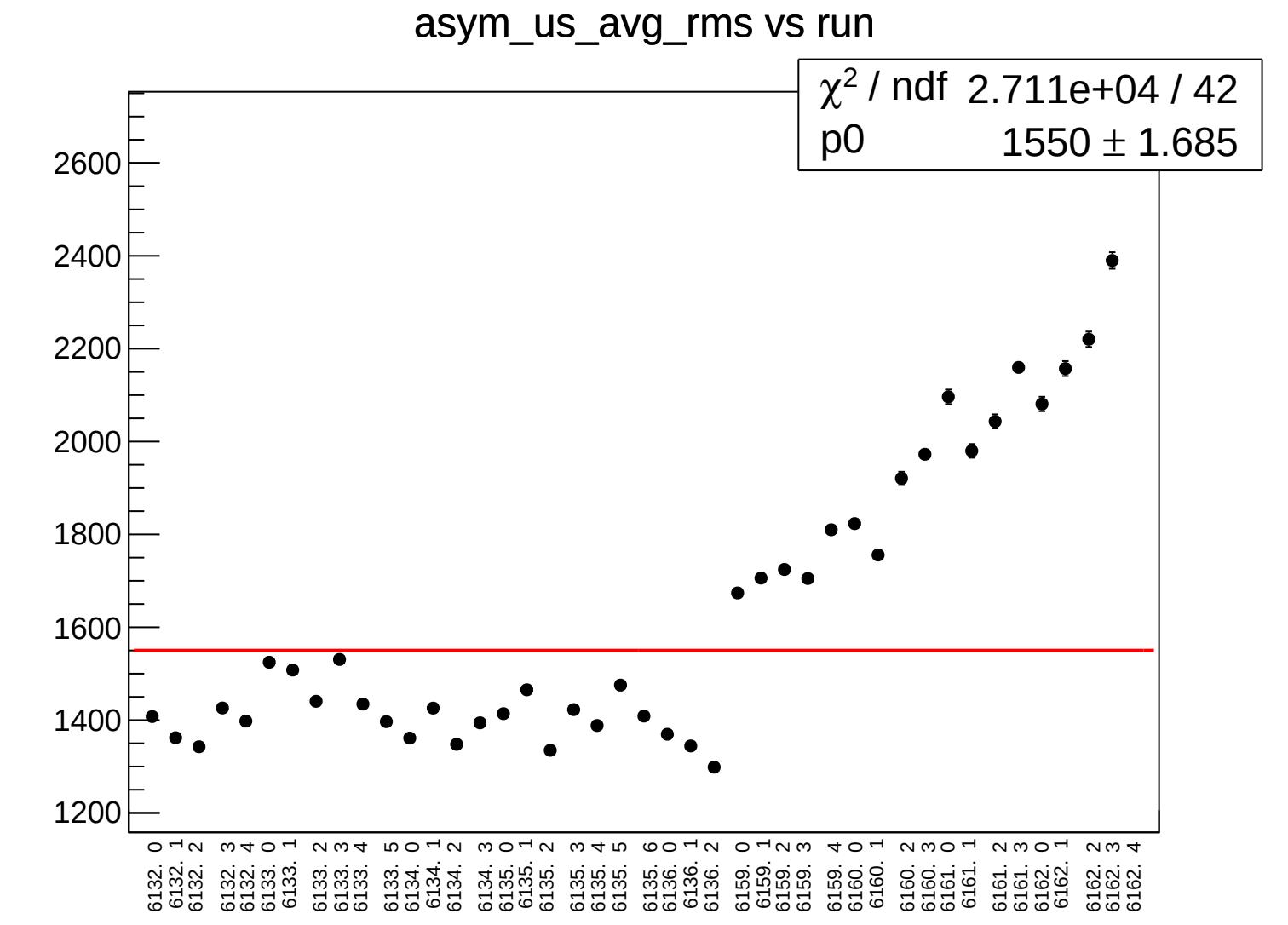

asym_us_avg_correction_mean vs run
χ² / ndf 39.88 / 42
p0 1785 ± 2012
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 210.6
Std Dev 191.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

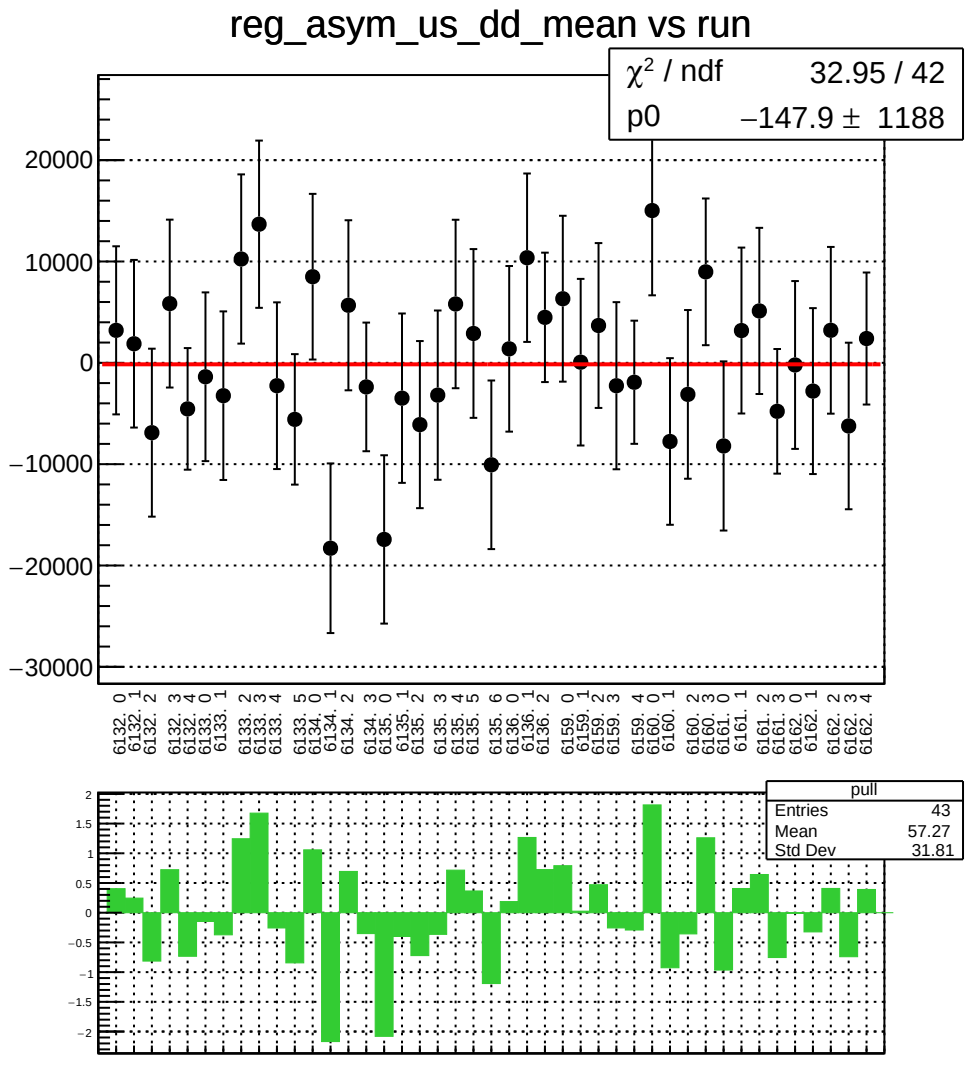

pull1D
Entries 43
Mean −0.0213
Std Dev 0.9628
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

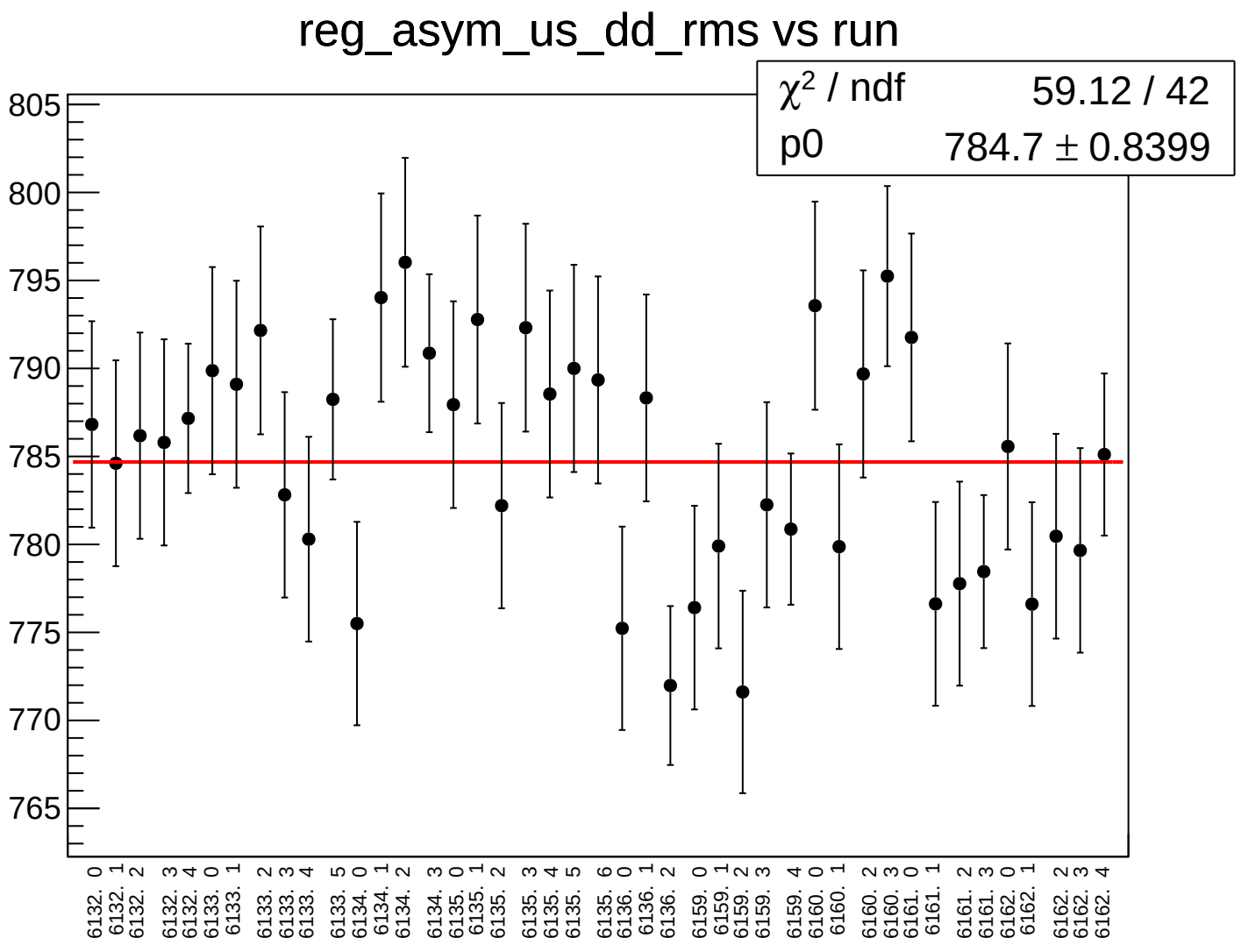

asym_us_avg_correction_rms vs run
χ² / ndf 4.256e+04 / 42
p0 1297 ± 1.423
2600
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

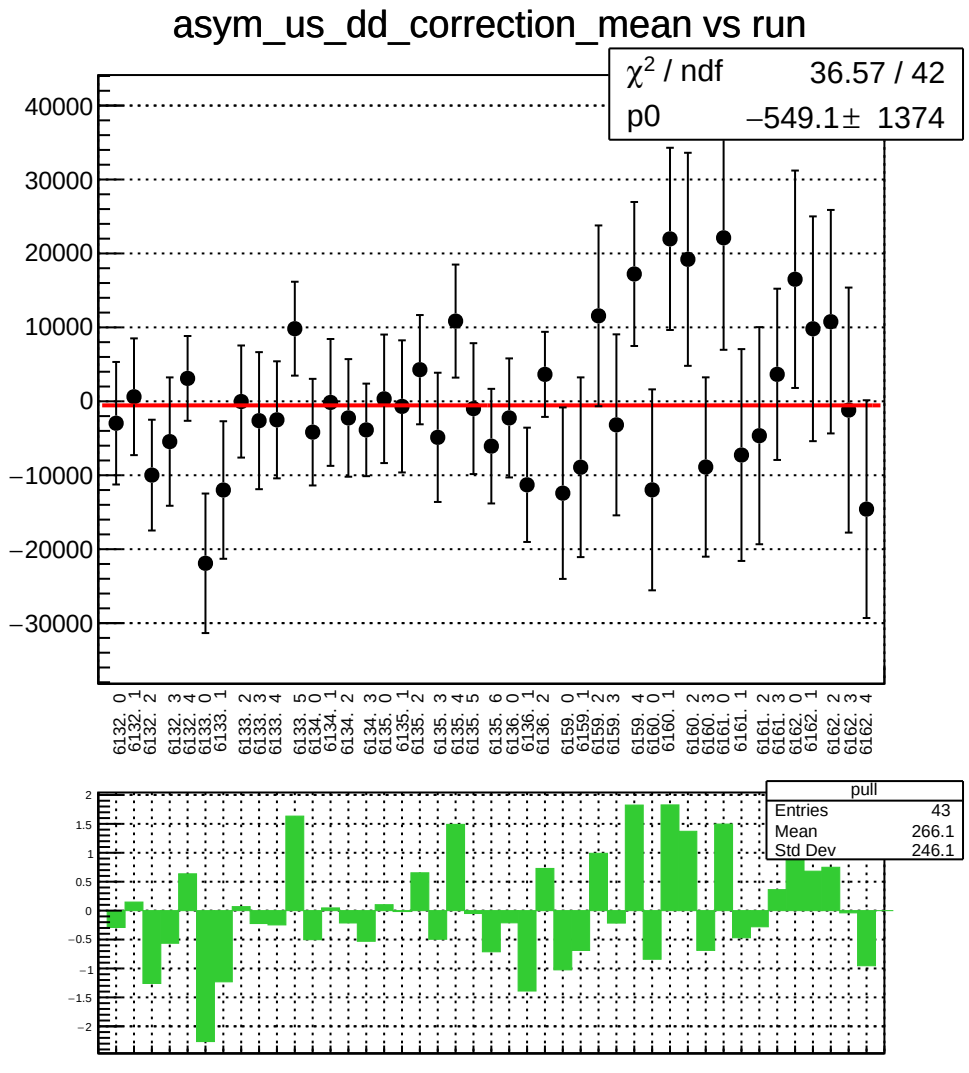

asym_us_avg_mean vs run
χ² / ndf 44.83 / 42
p0 −5010 ± 2384
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −956.6
Std Dev 970.6
2
1
0
−1
−2

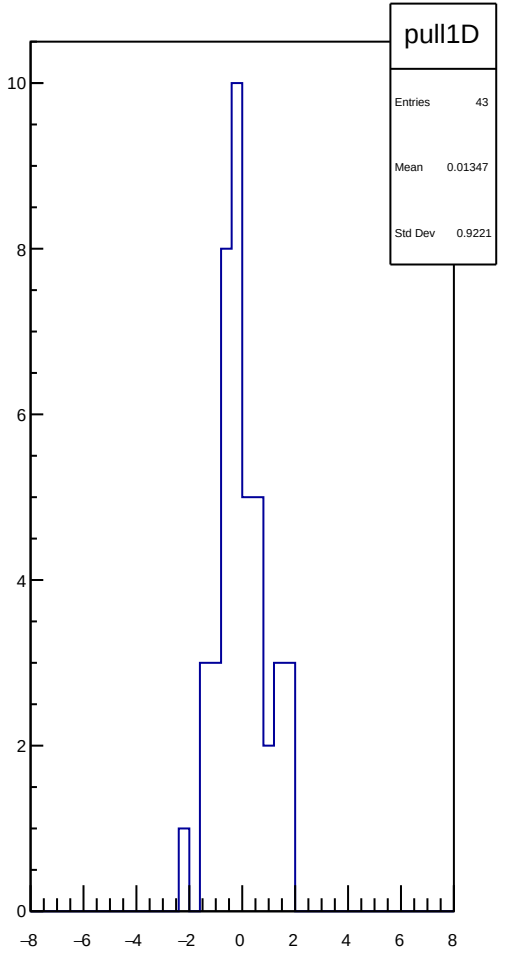

pull1D
Entries 43
Mean −0.002539
Std Dev 1.021
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

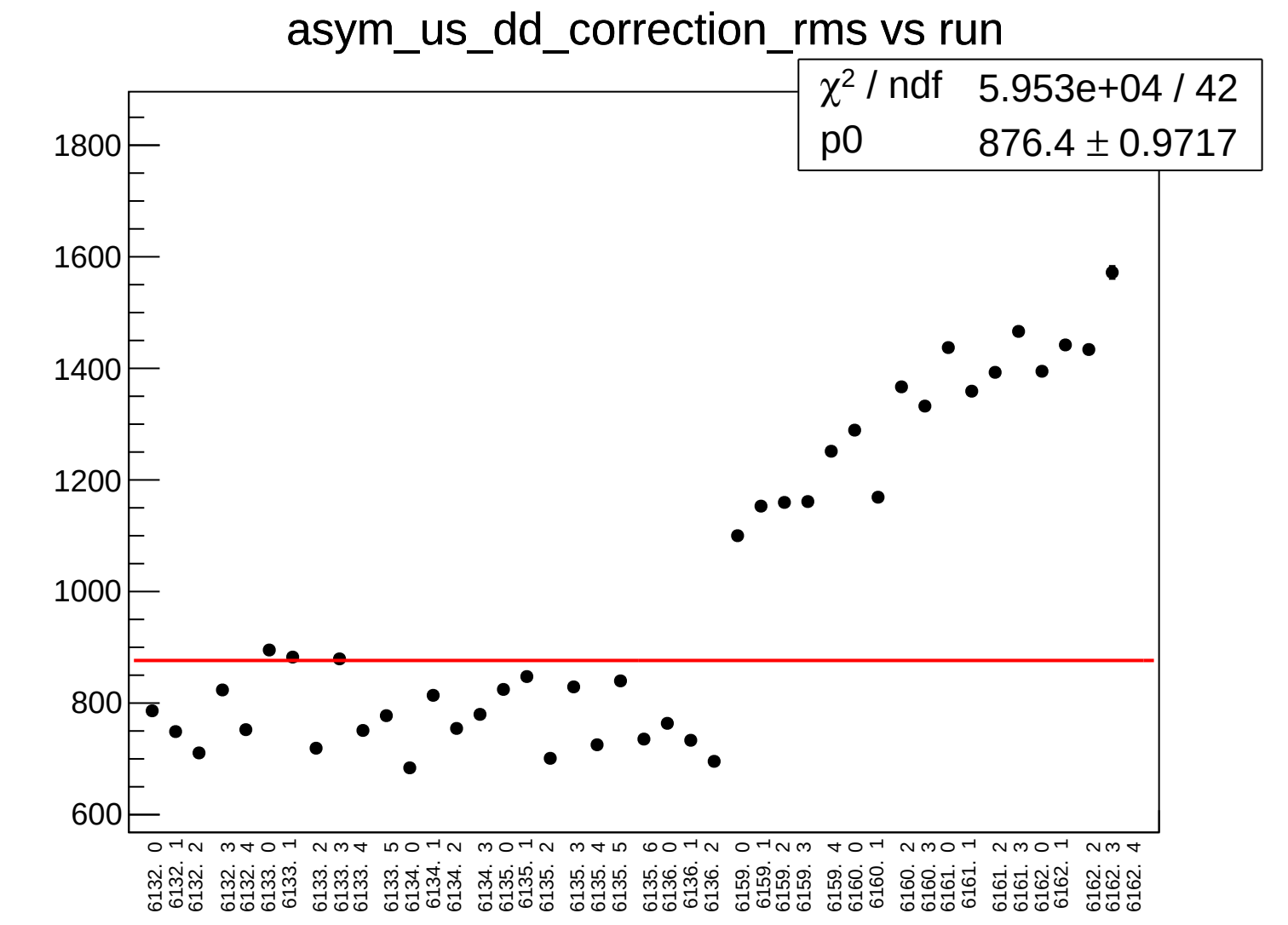

asym_us_avg_rms vs run
χ² / ndf 2.711e+04 / 42
p0 1550 ± 1.685
2600
2400
2200
2000
1800
1600
1400
1200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

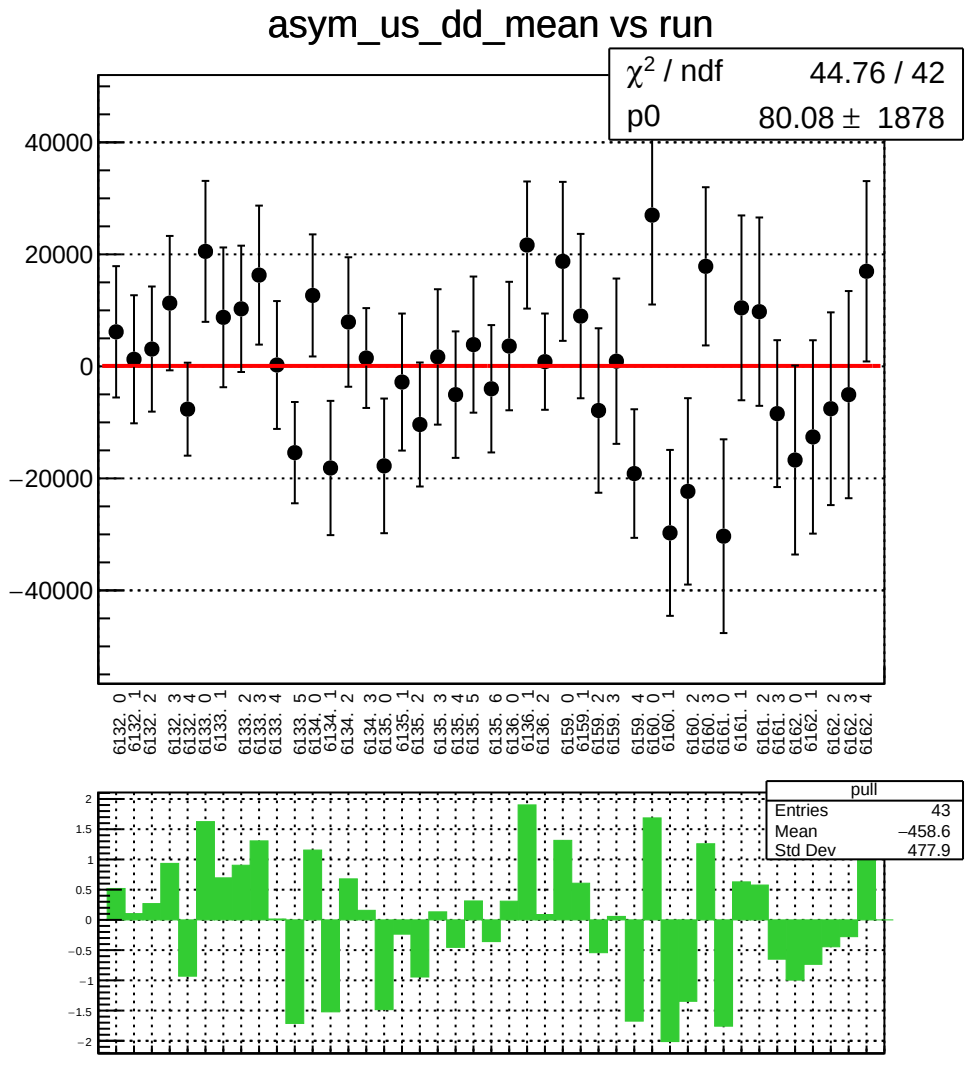

reg_asym_us_dd_mean vs run
χ² / ndf 32.95 / 42
p0 −147.9 ± 1188
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 57.27
Std Dev 31.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01053
Std Dev 0.8754
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

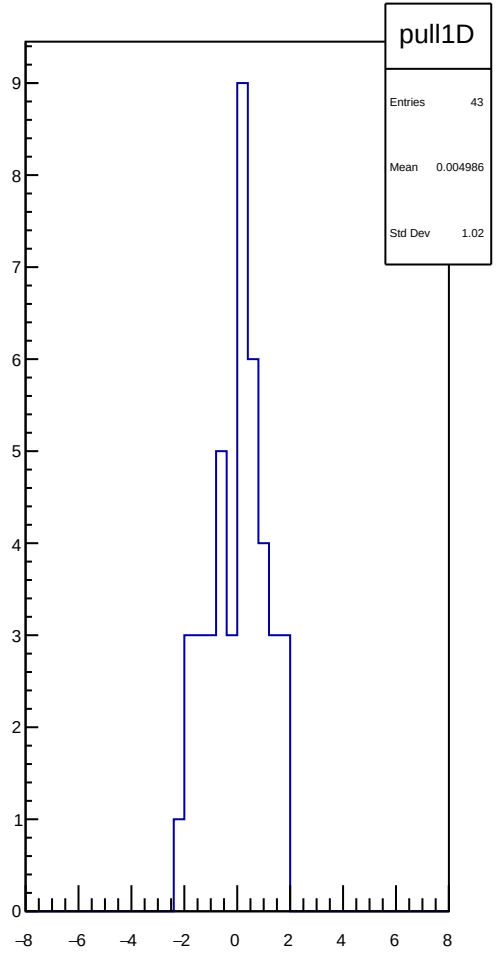

reg_asym_us_dd_rms vs run
χ² / ndf 59.12 / 42
p0 784.7 ± 0.8399
805
800
795
790
785
780
775
770
765
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

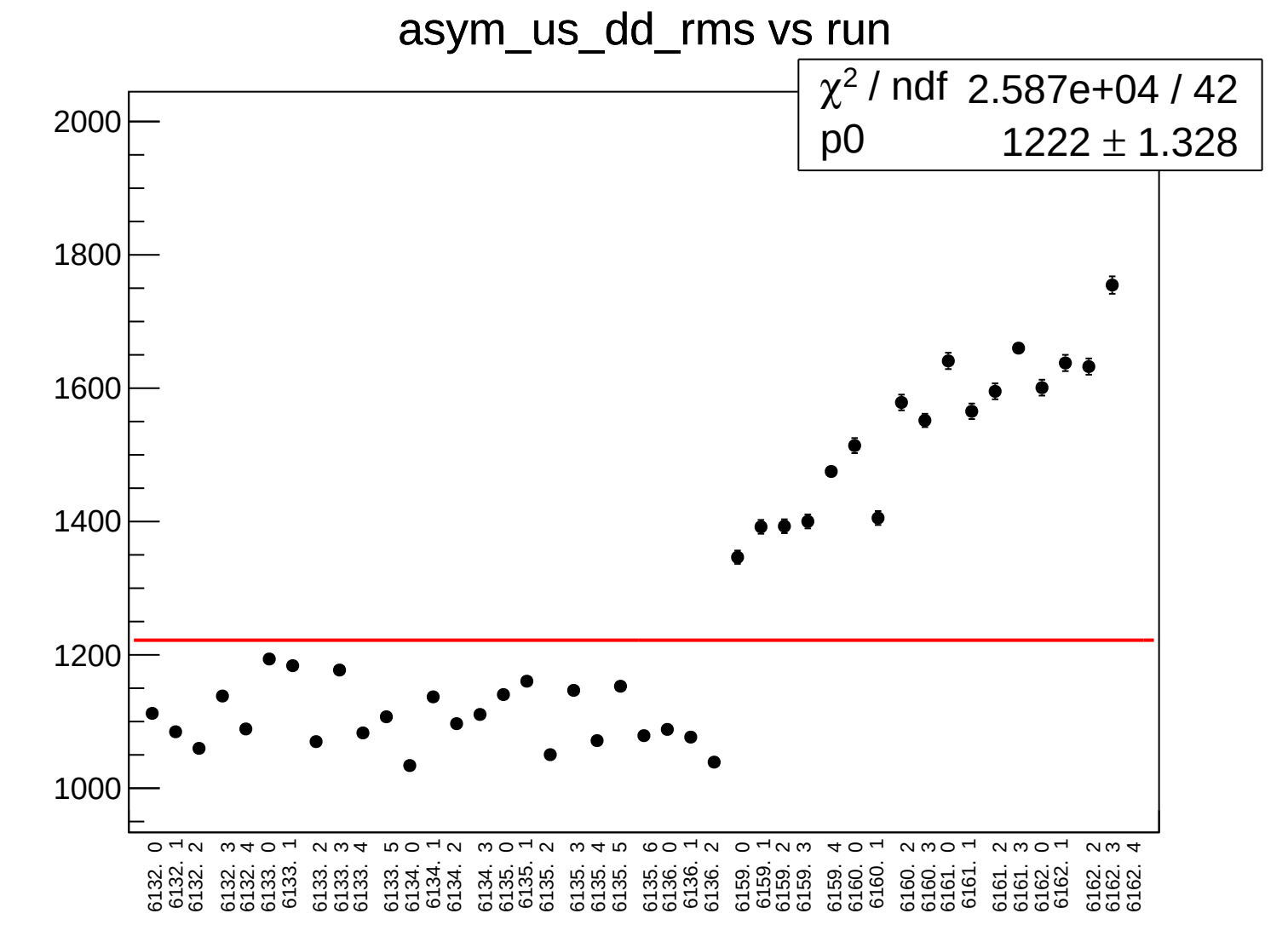

asym_us_dd_correction_mean vs run
χ² / ndf 36.57 / 42
p0 −549.1± 1374
40000
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 266.1
Std Dev 246.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

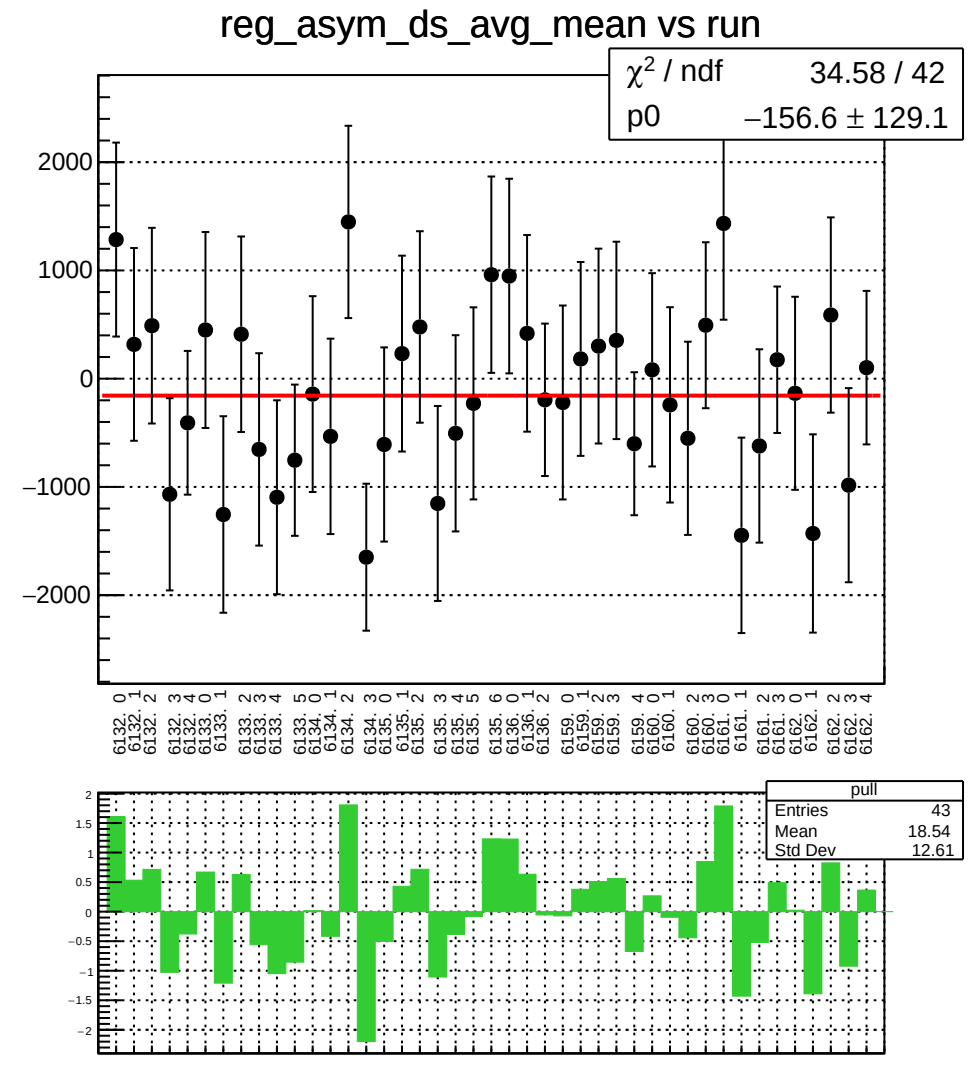

pull1D
Entries 43
Mean 0.01347
Std Dev 0.9221
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

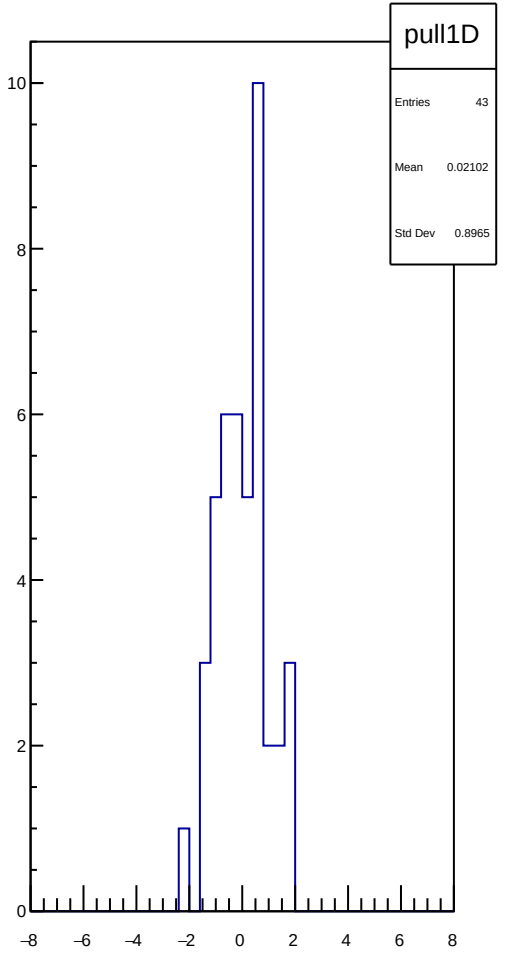

asym_us_dd_correction_rms vs run
χ² / ndf 5.953e+04 / 42
p0 876.4 ± 0.9717
1800
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

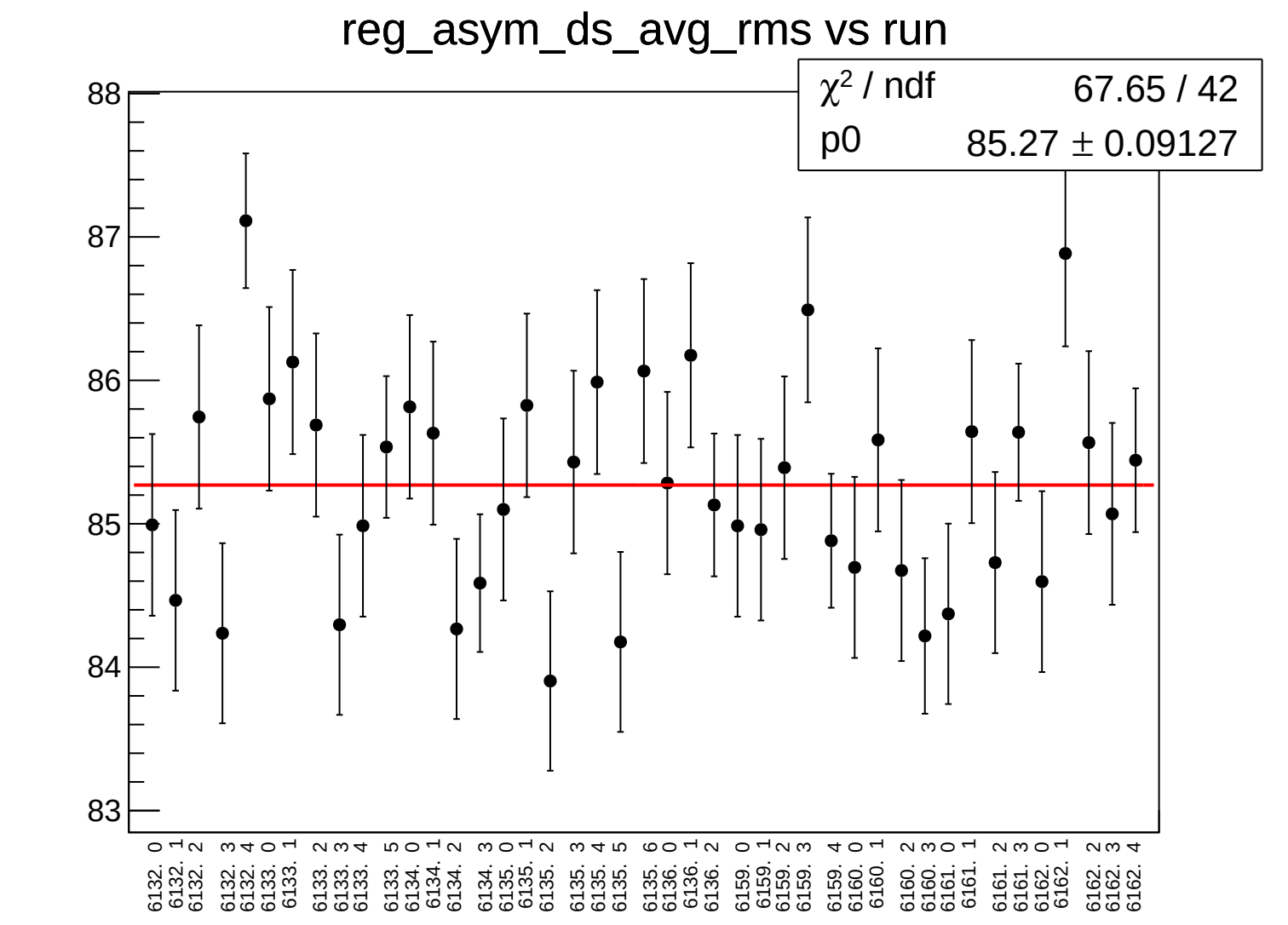

asym_us_dd_mean vs run
χ² / ndf 44.76 / 42
p0 80.08 ± 1878
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −458.6
Std Dev 477.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

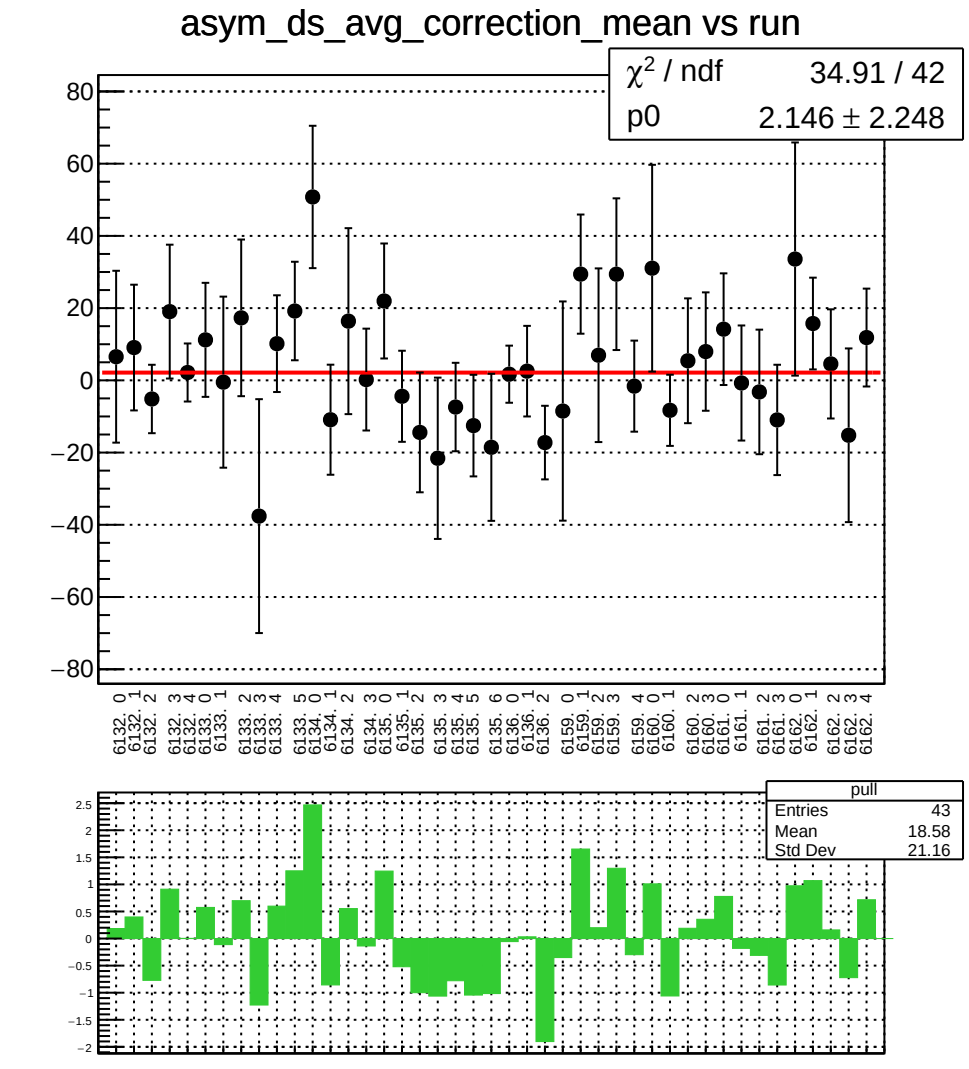

pull1D
Entries 43
Mean 0.004986
Std Dev 1.02
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

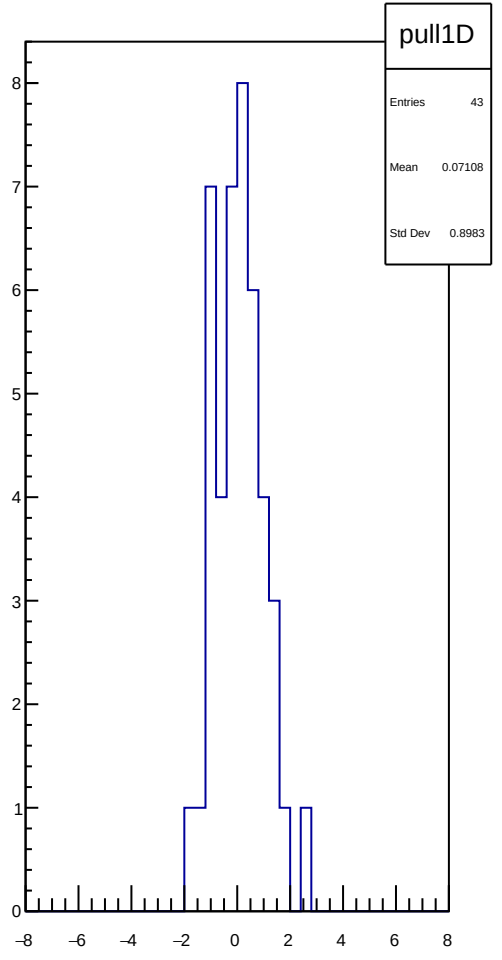

asym_us_dd_rms vs run
χ² / ndf 2.587e+04 / 42
p0 1222 ± 1.328
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

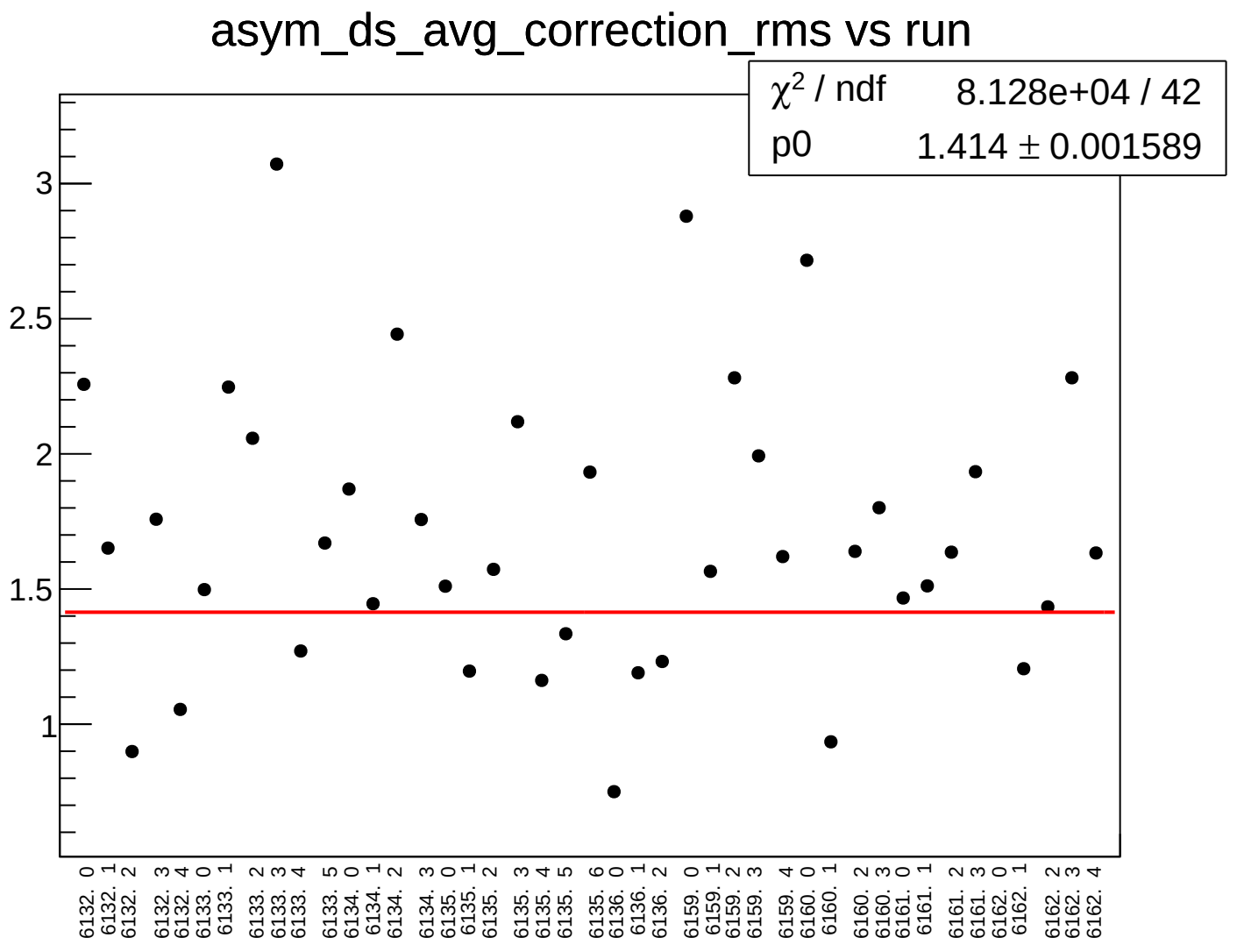

reg_asym_ds_avg_mean vs run
χ² / ndf 34.58 / 42
p0 −156.6 ± 129.1
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 18.54
Std Dev 12.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

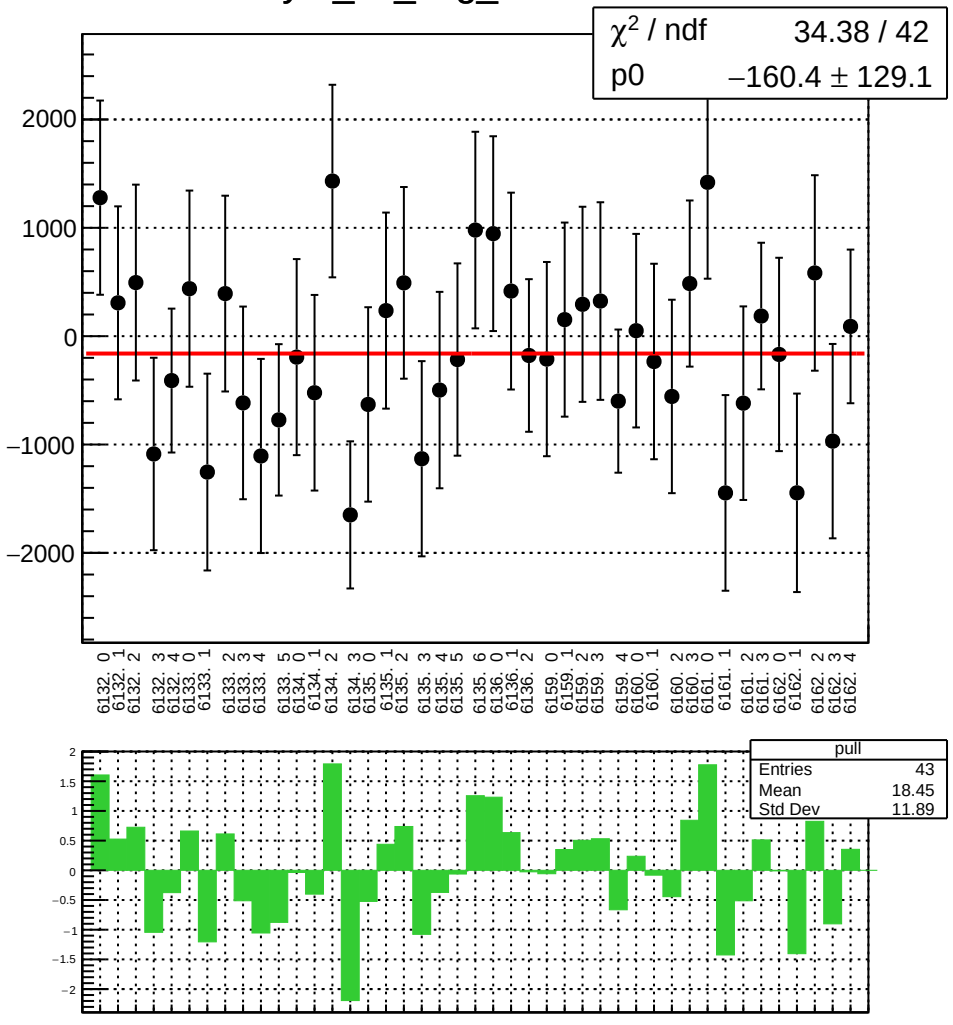

pull1D
Entries 43
Mean 0.02102
Std Dev 0.8965
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

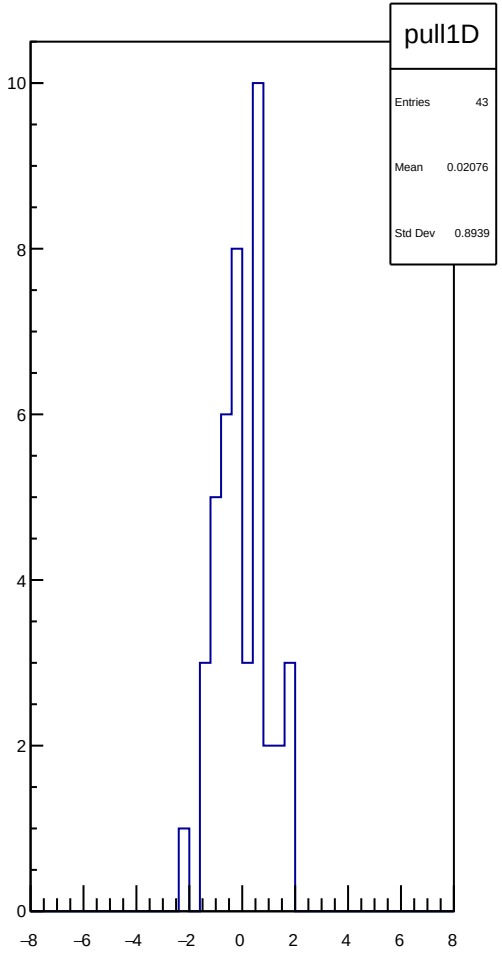

reg_asym_ds_avg_rms vs run
χ² / ndf 67.65 / 42
p0 85.27 ± 0.09127
88
87
86
85
84
83
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

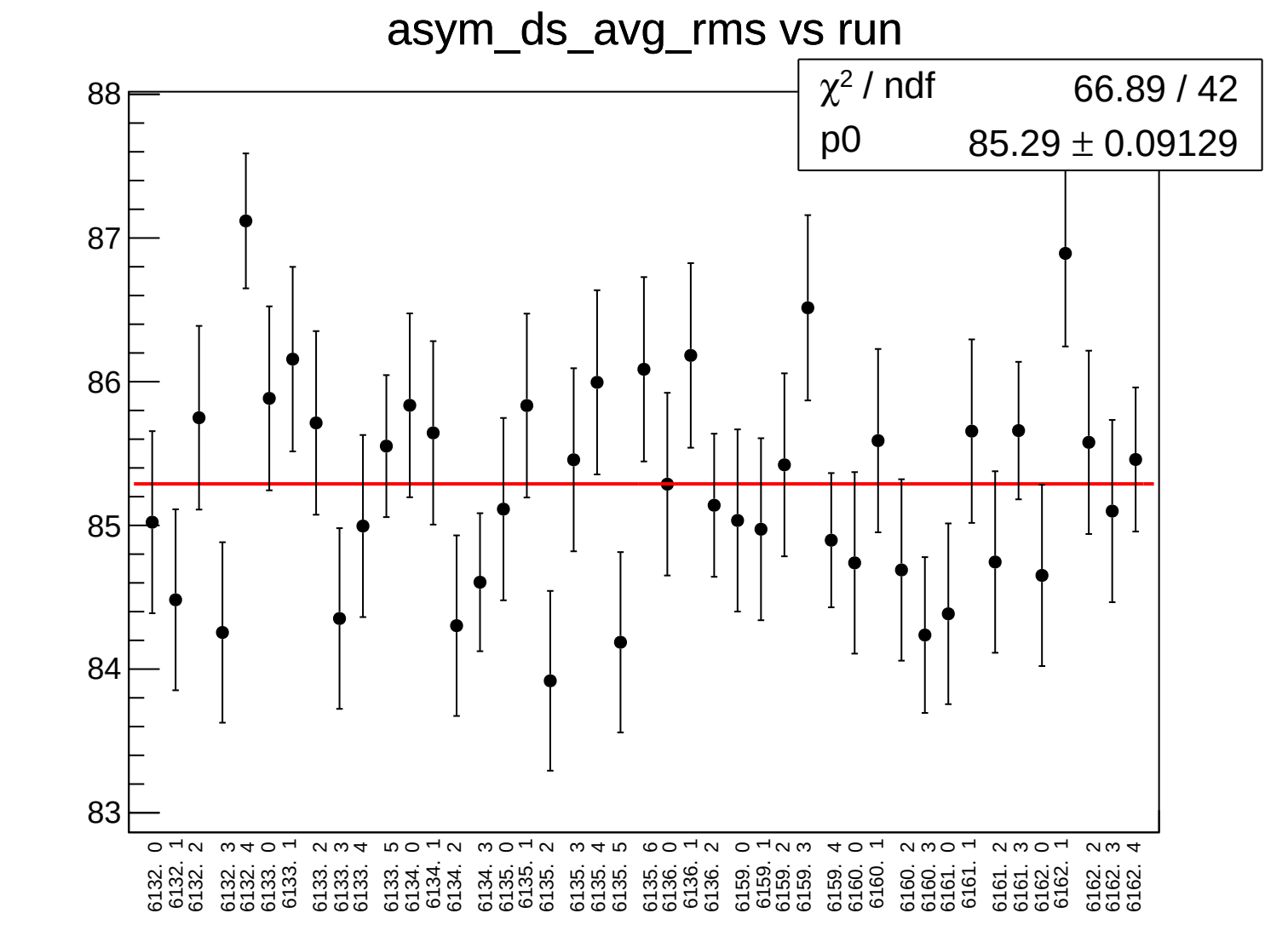

asym_ds_avg_correction_mean vs run
χ² / ndf 34.91 / 42
p0 2.146 ± 2.248
pull
Entries 43
Mean 18.58
Std Dev 21.16

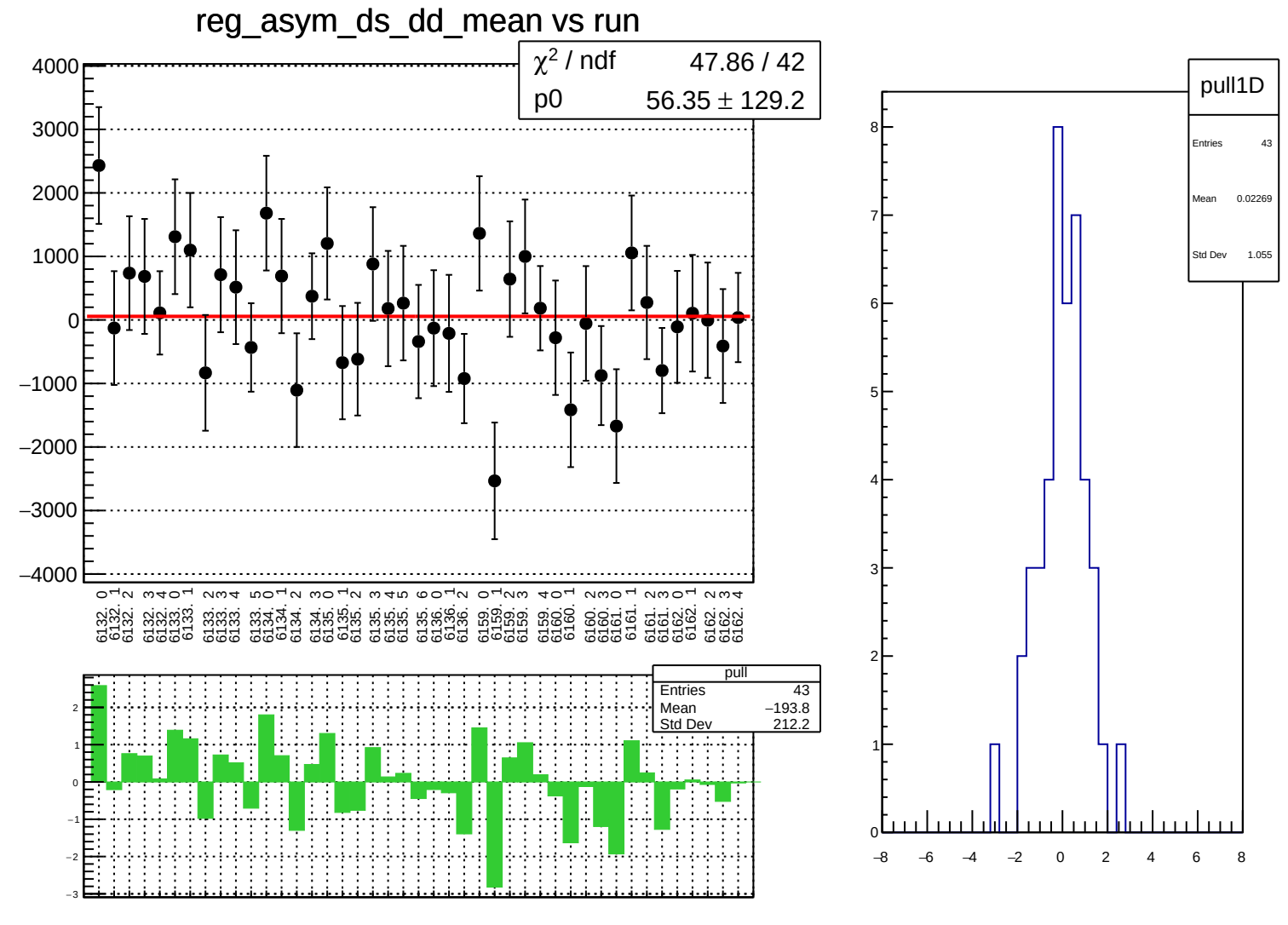

pull1D
Entries 43
Mean 0.07108
Std Dev 0.8983

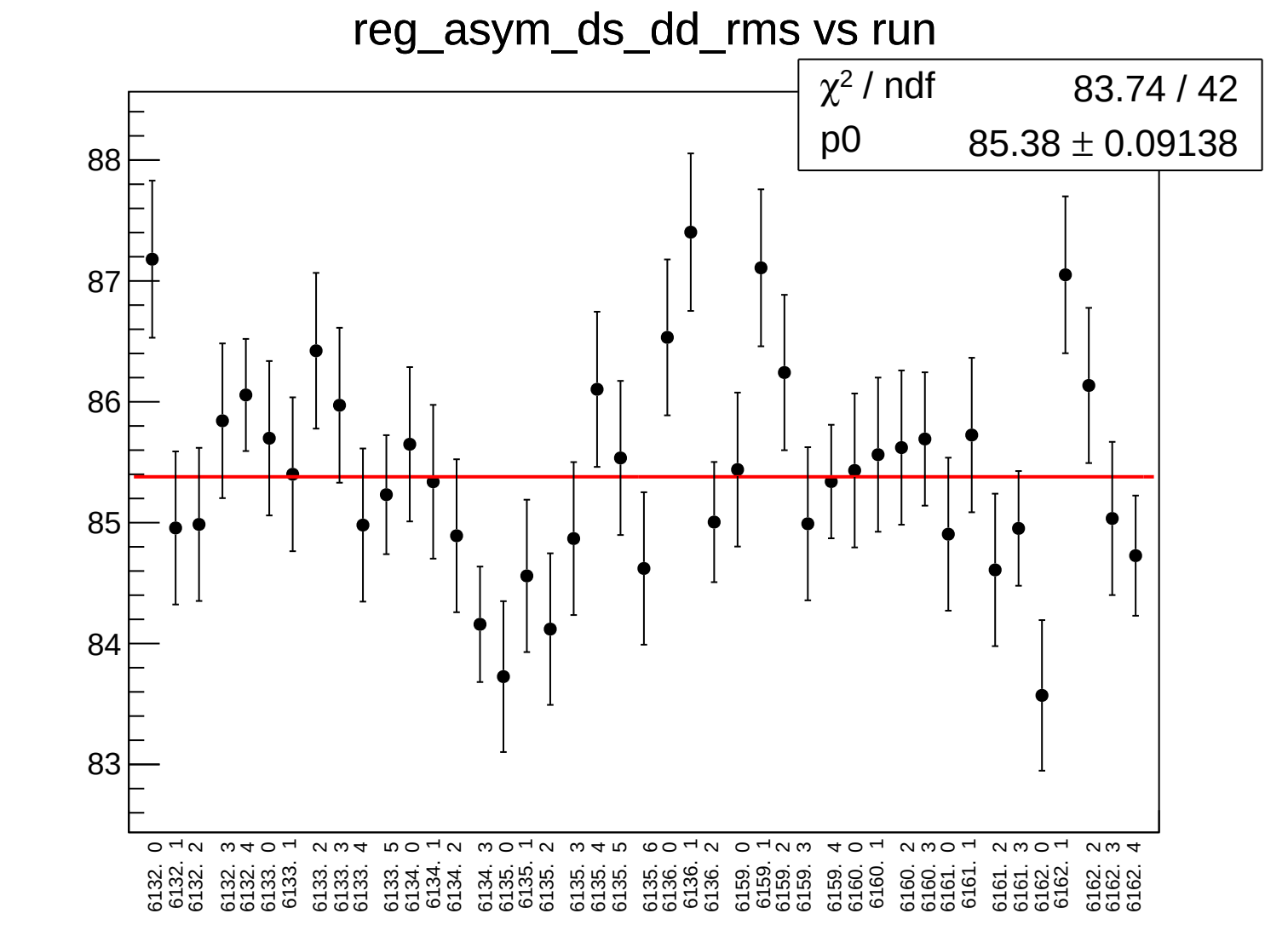

asym_ds_avg_correction_rms vs run
χ² / ndf 8.128e+04 / 42
p0 1.414 ± 0.001589
3
2.5
2
1.5
1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

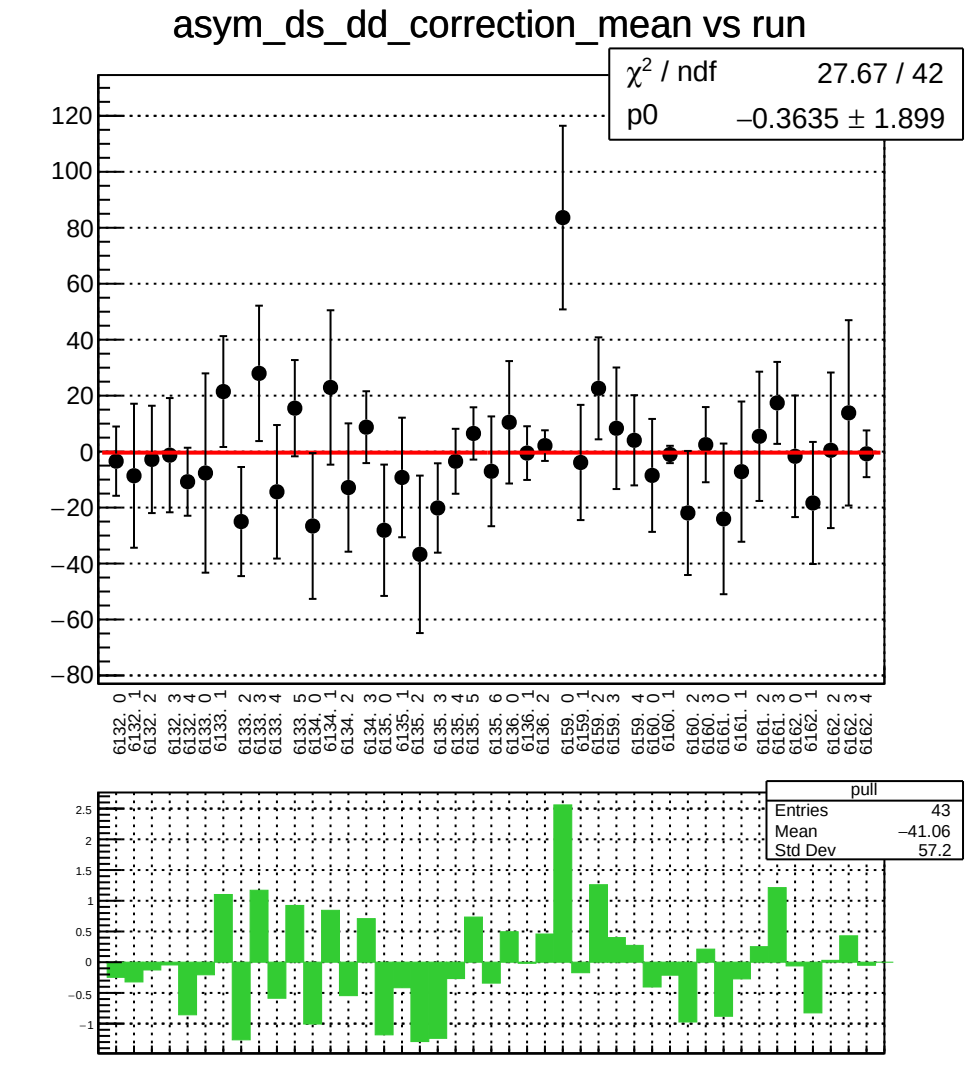

asym_ds_avg_mean vs run
χ² / ndf 34.38 / 42
p0 −160.4 ± 129.1
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 18.45
Std Dev 11.89
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

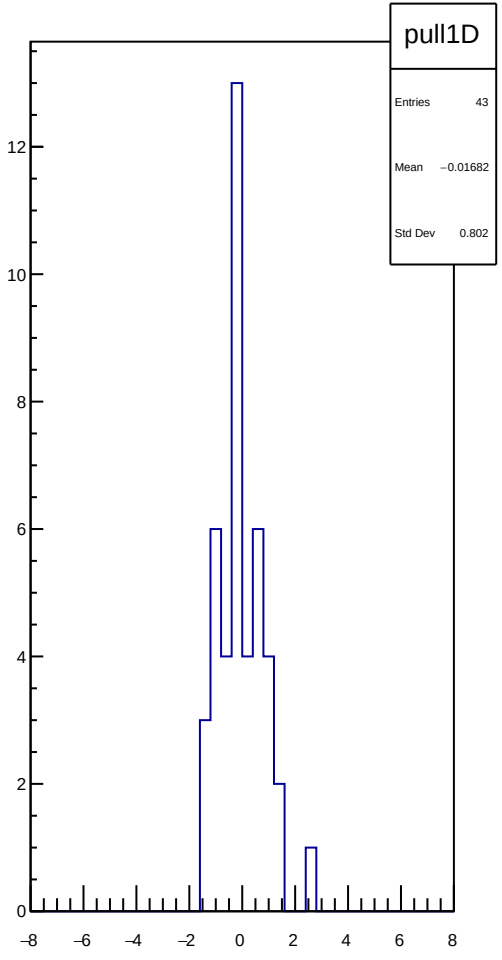

pull1D
Entries 43
Mean 0.02076
Std Dev 0.8939
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

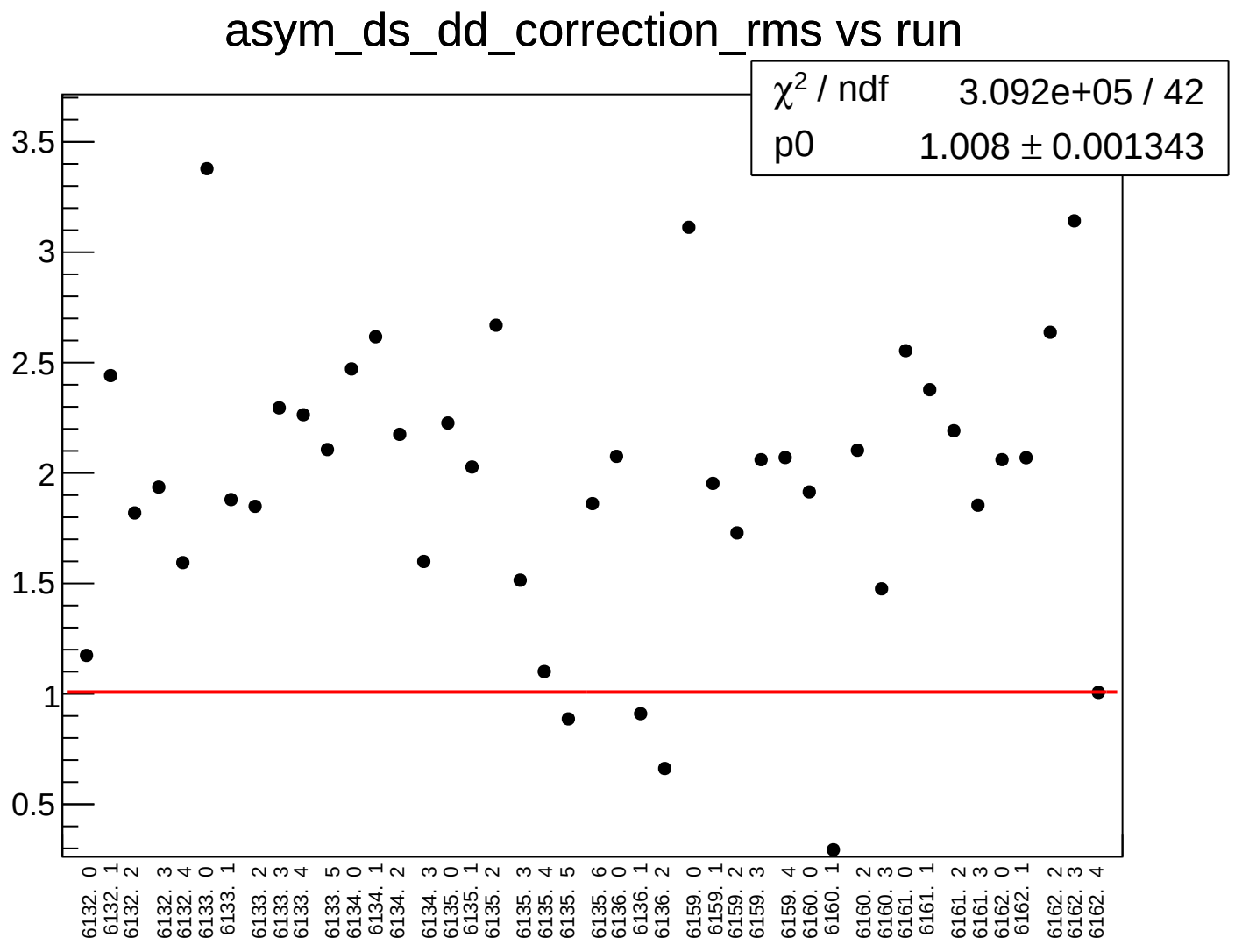

asym_ds_avg_rms vs run
χ² / ndf 66.89 / 42
p0 85.29 ± 0.09129
88
87
86
85
84
83
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

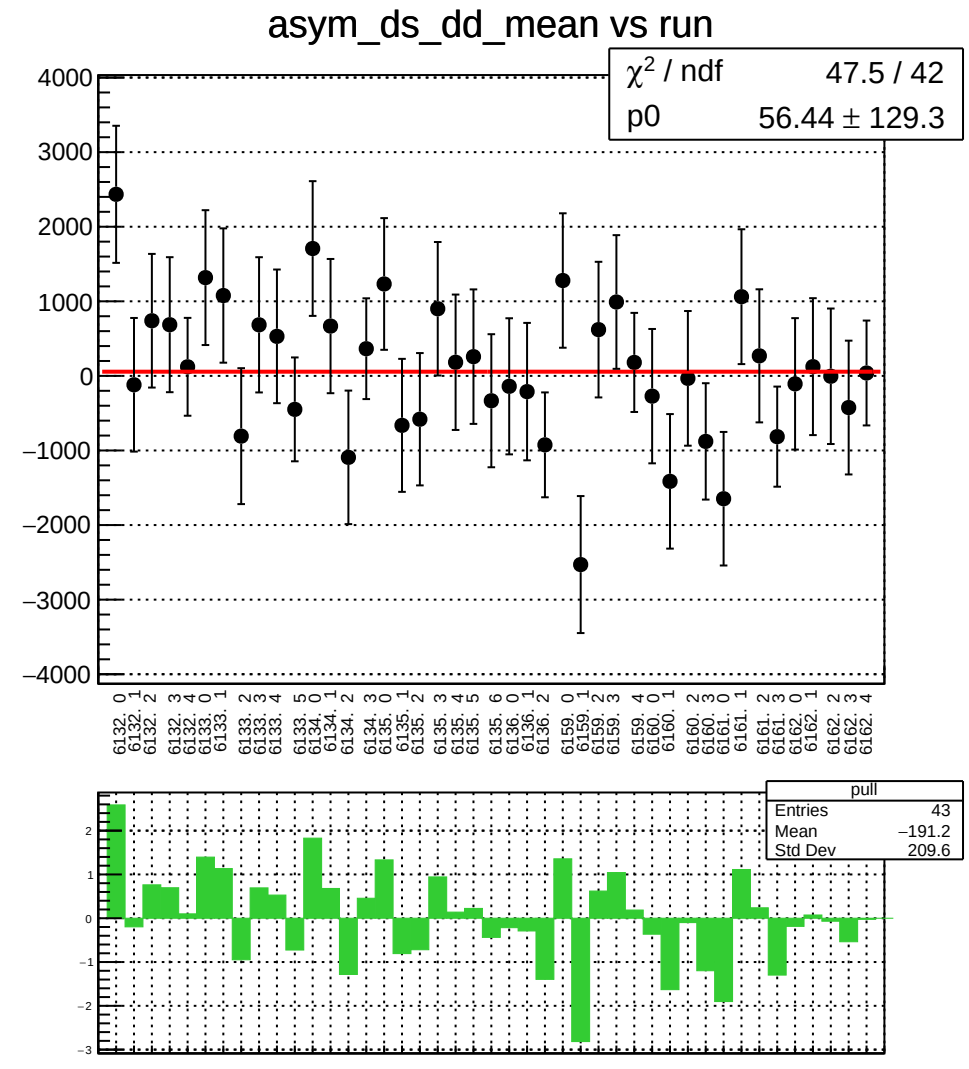

reg_asym_ds_dd_mean vs run
χ² / ndf 47.86 / 42
p0 56.35 ± 129.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −193.8
Std Dev 212.2
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.02269
Std Dev 1.055
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

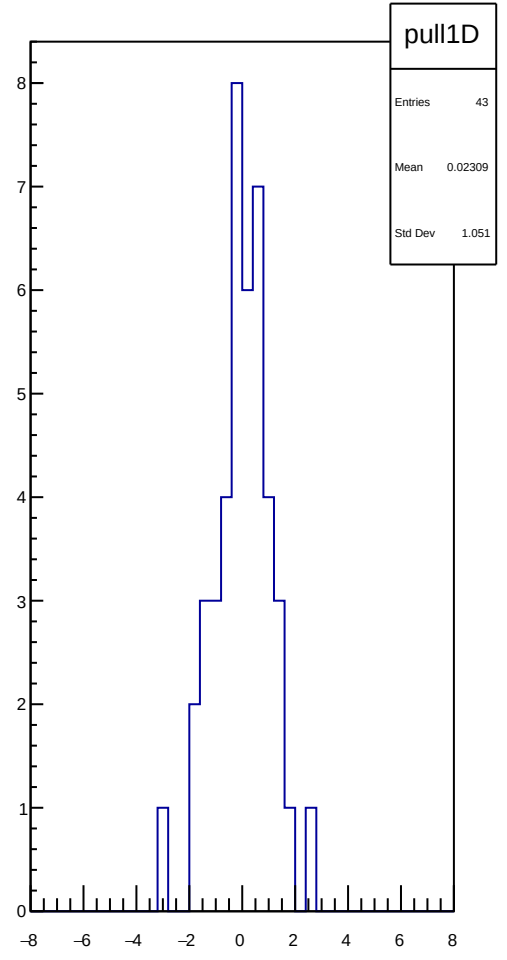

reg_asym_ds_dd_rms vs run
χ² / ndf 83.74 / 42
p0 85.38 ± 0.09138
88
87
86
85
84
83
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

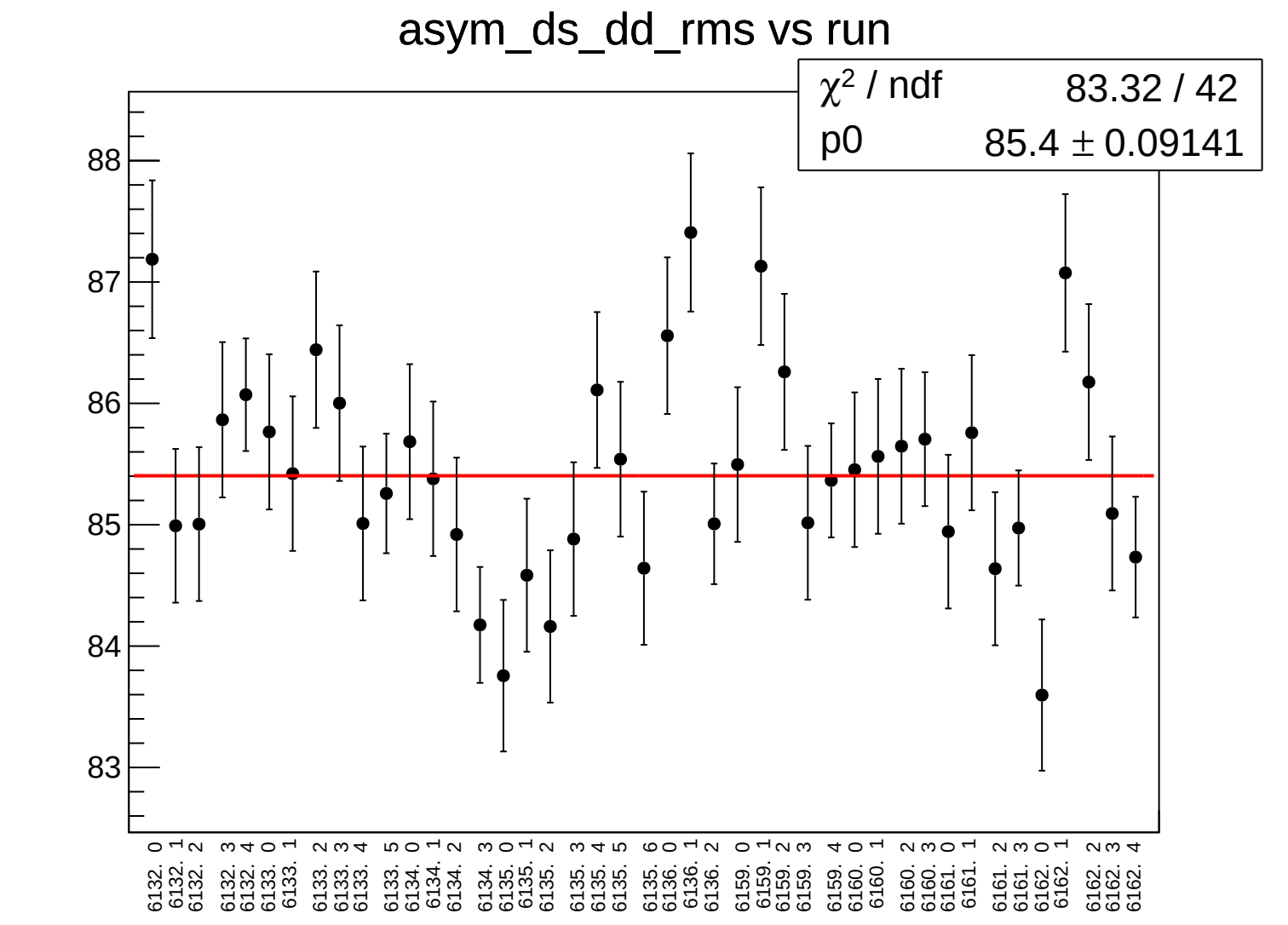

asym_ds_dd_correction_mean vs run
χ² / ndf 27.67 / 42
p0 −0.3635 ± 1.899
pull
Entries 43
Mean −41.06
Std Dev 57.2

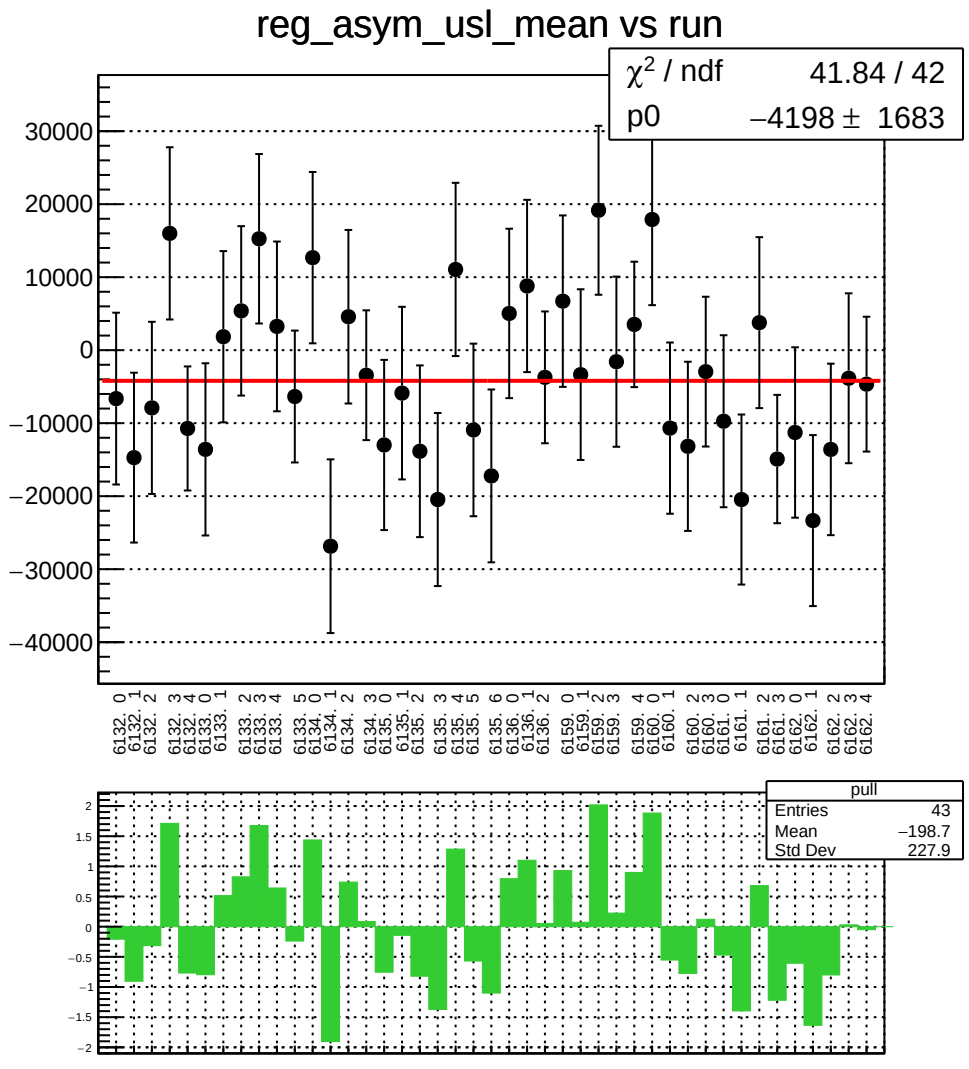

pull1D
Entries 43
Mean −0.01682
Std Dev 0.802

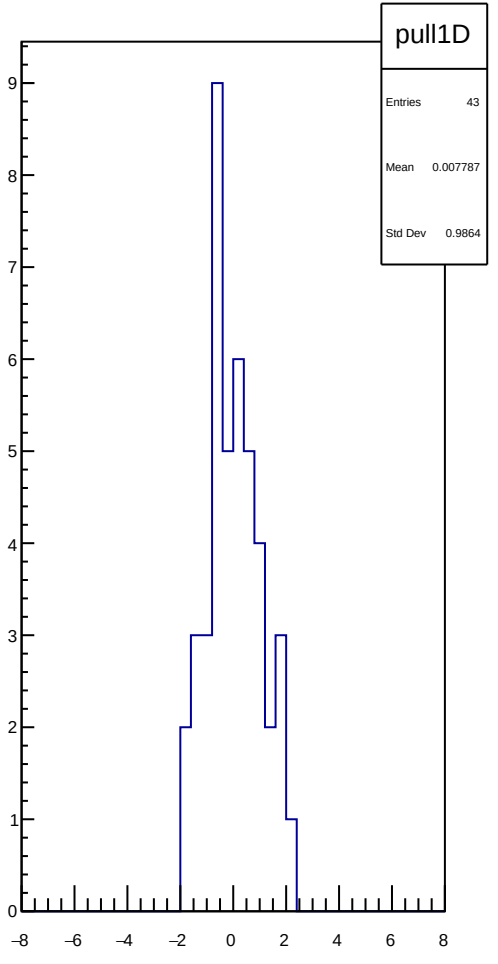

asym_ds_dd_correction_rms vs run
χ² / ndf 3.092e+05 / 42
p0 1.008 ± 0.001343
3.5
3
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

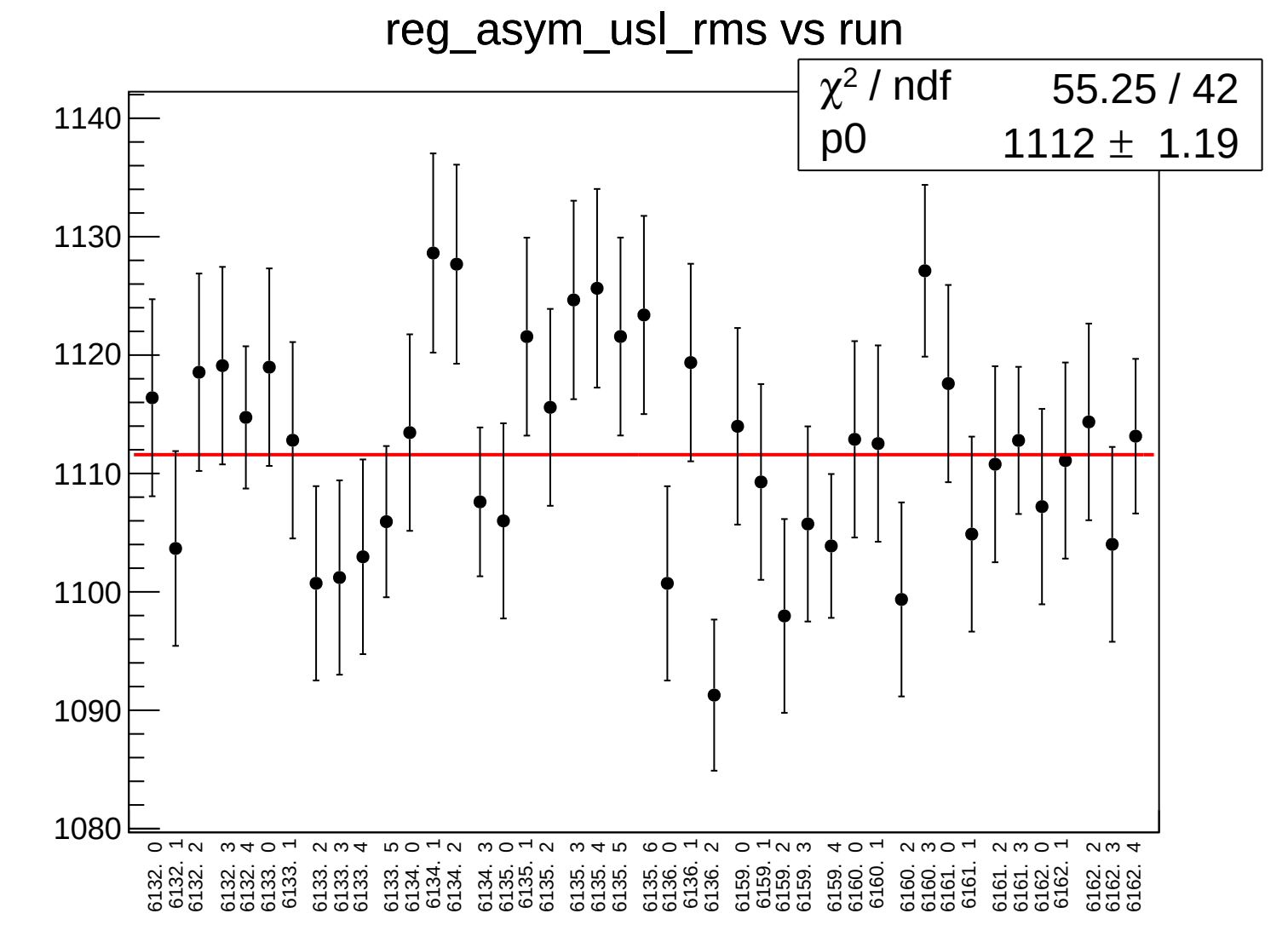

asym_ds_dd_mean vs run
χ² / ndf 47.5 / 42
p0 56.44 ± 129.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −191.2
Std Dev 209.6
2
1
0
−1
−2
−3

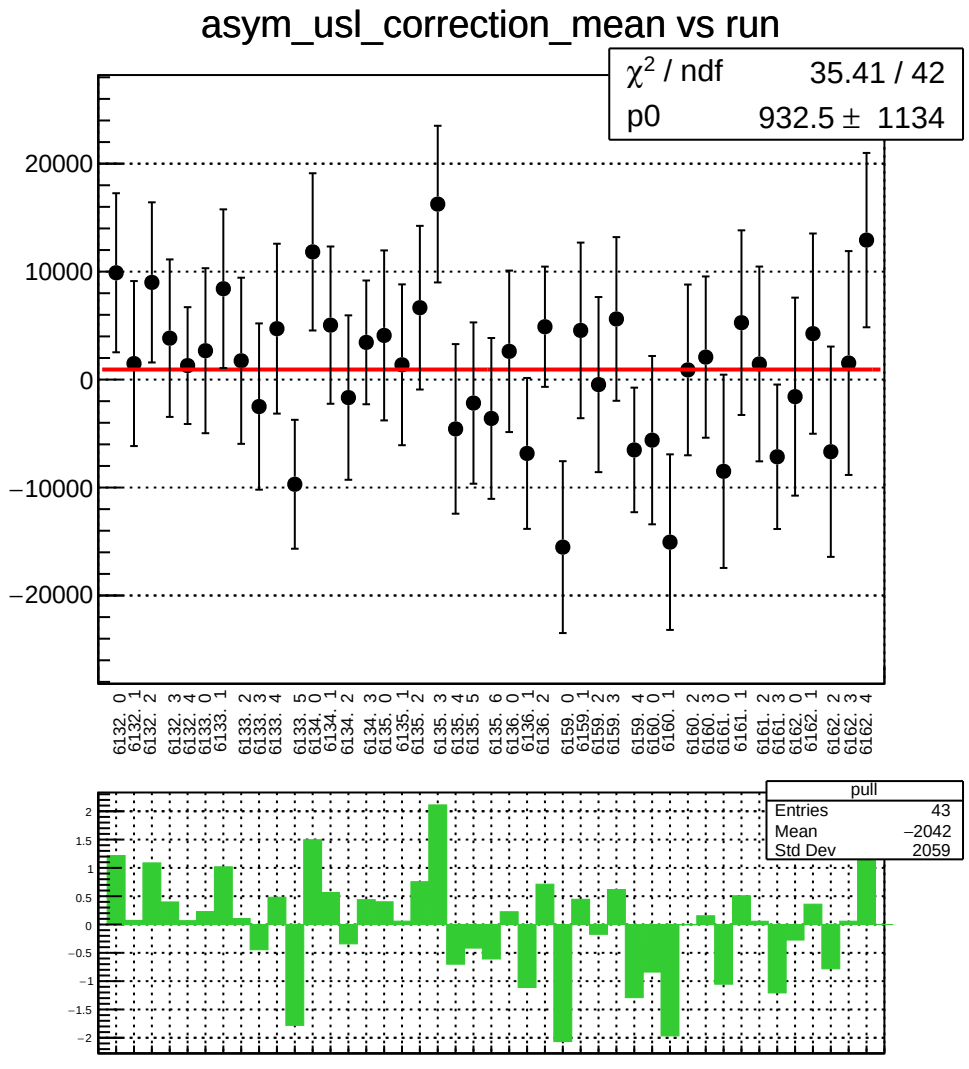

pull1D
Entries 43
Mean 0.02309
Std Dev 1.051
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

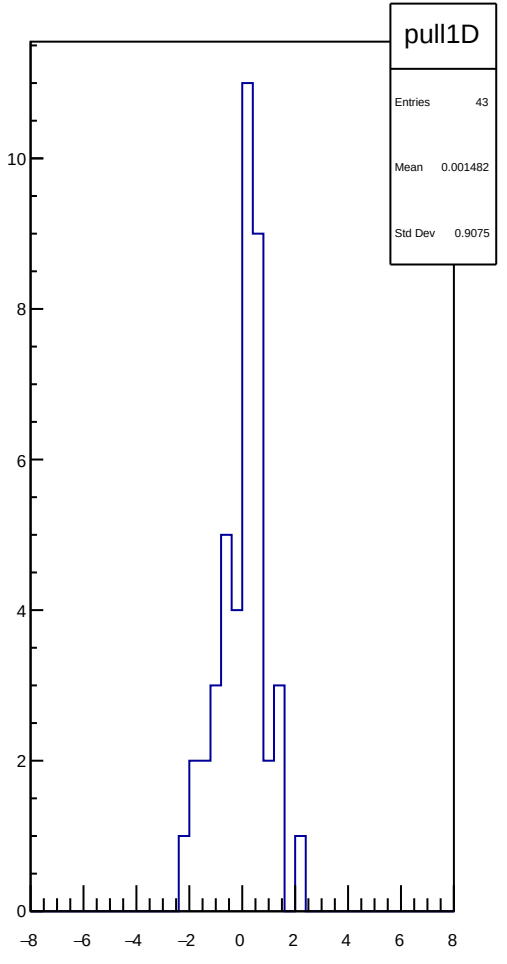

asym_ds_dd_rms vs run
χ² / ndf 83.32 / 42
p0 85.4 ± 0.09141
88
87
86
85
84
83
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

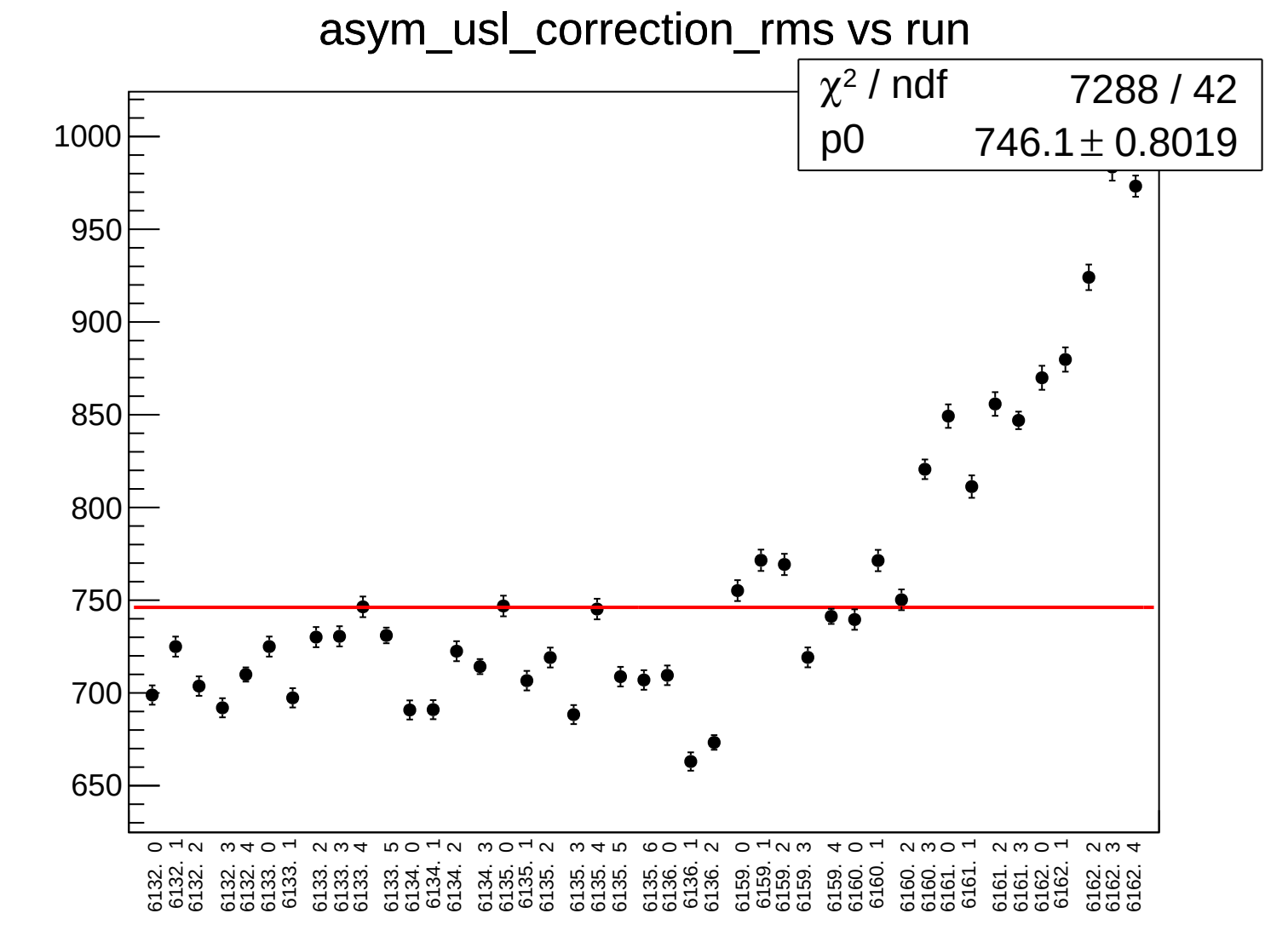

reg_asym_usl_mean vs run
χ² / ndf 41.84 / 42
p0 −4198 ± 1683
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −198.7
Std Dev 227.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

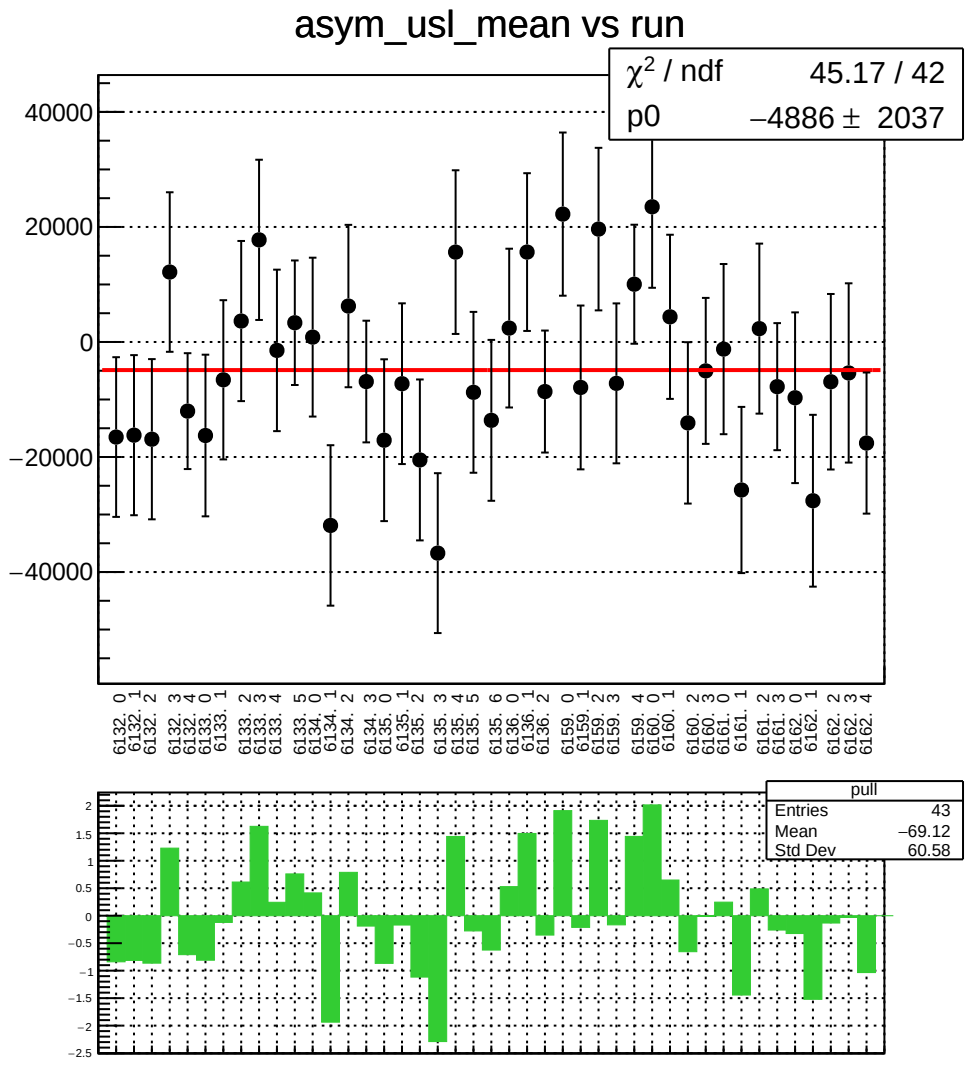

pull1D
Entries 43
Mean 0.007787
Std Dev 0.9864
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

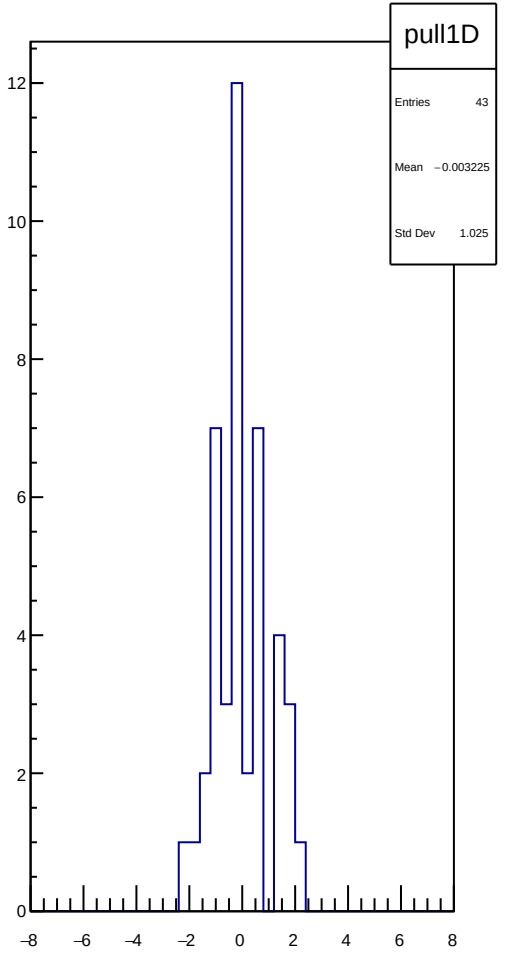

reg_asym_usl_rms vs run
χ² / ndf 55.25 / 42
p0 1112 ± 1.19
1140
1130
1120
1110
1100
1090
1080
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

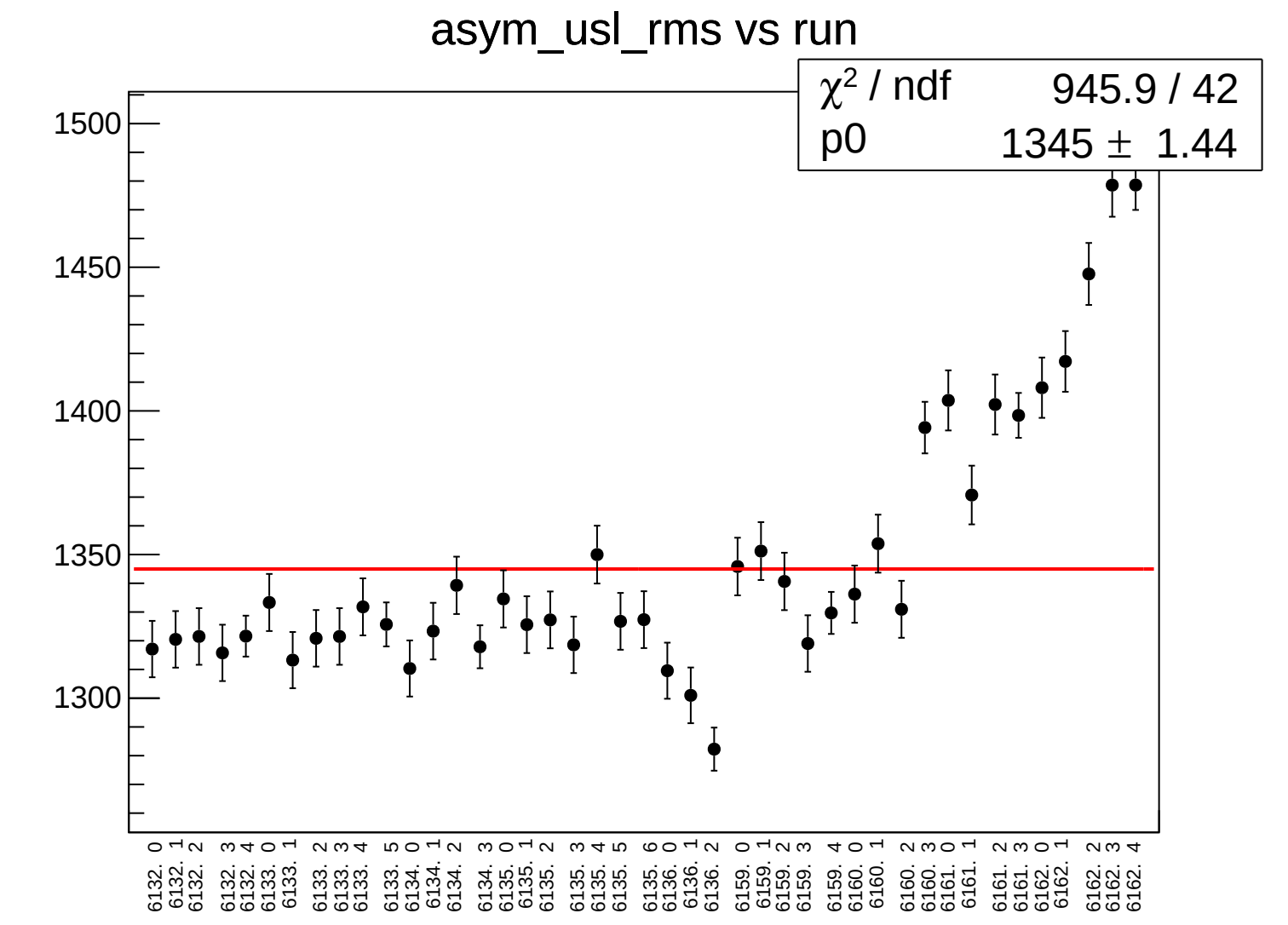

asym_usl_correction_mean vs run
χ² / ndf 35.41 / 42
p0 932.5 ± 1134
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −2042
Std Dev 2059
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

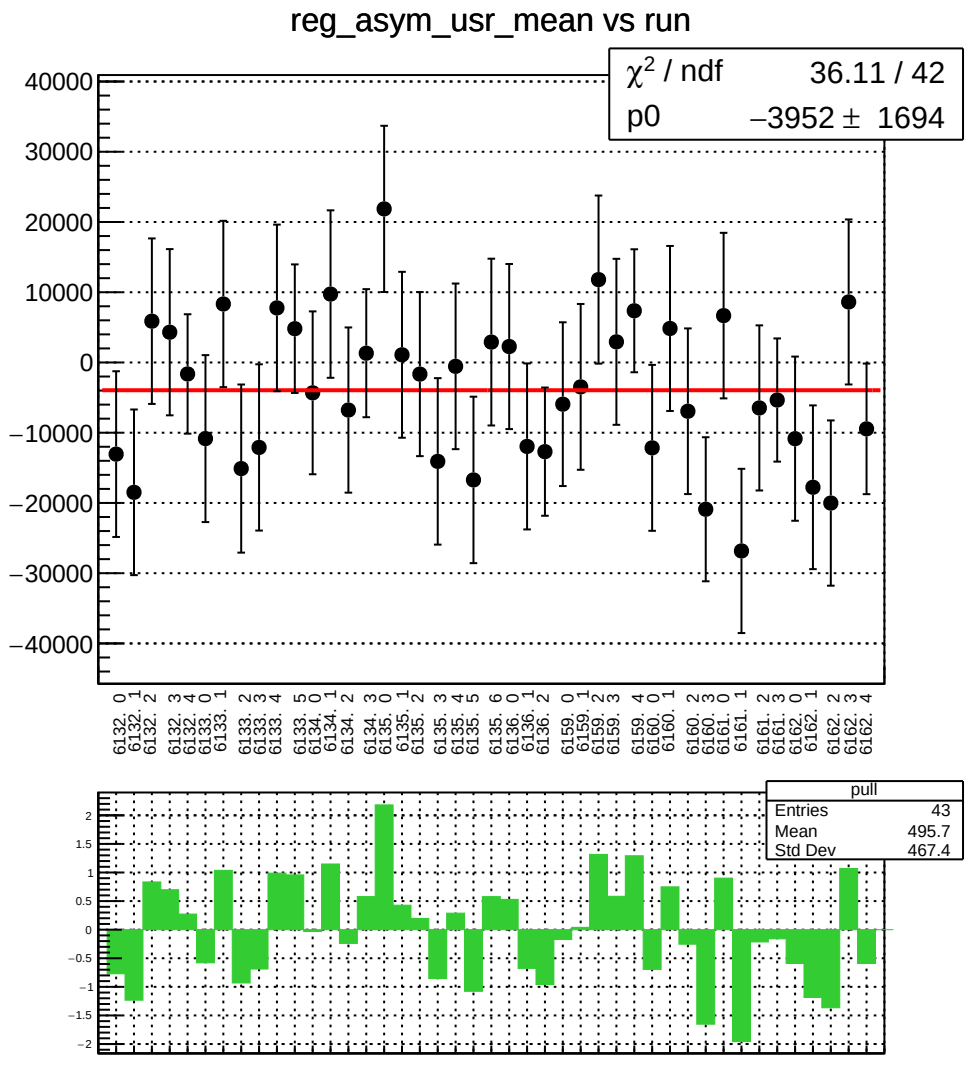

pull1D
Entries 43
Mean 0.001482
Std Dev 0.9075
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

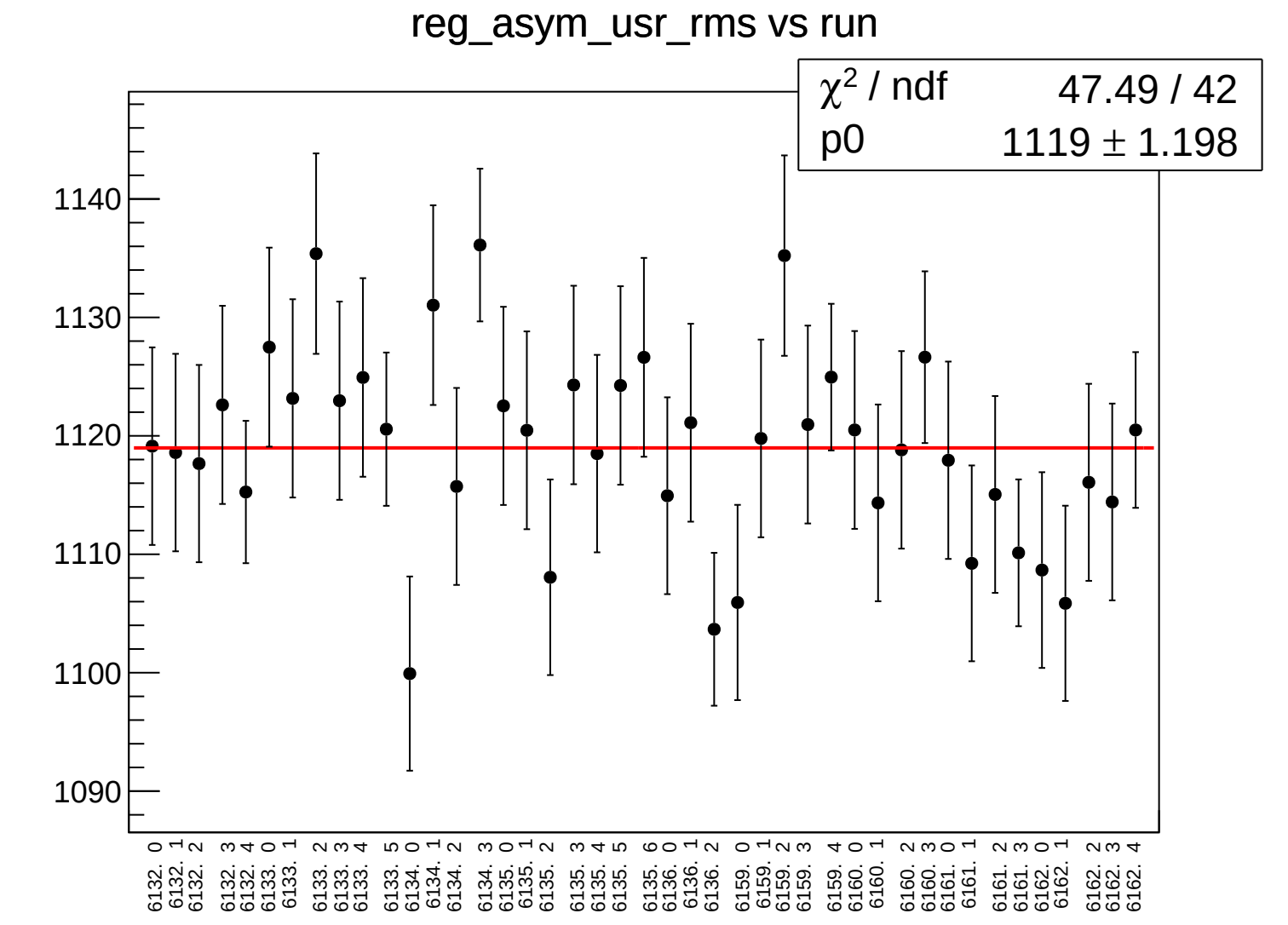

asym_usl_correction_rms vs run
χ² / ndf 7288 / 42
p0 746.1 ± 0.8019
1000
950
900
850
800
750
700
650
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

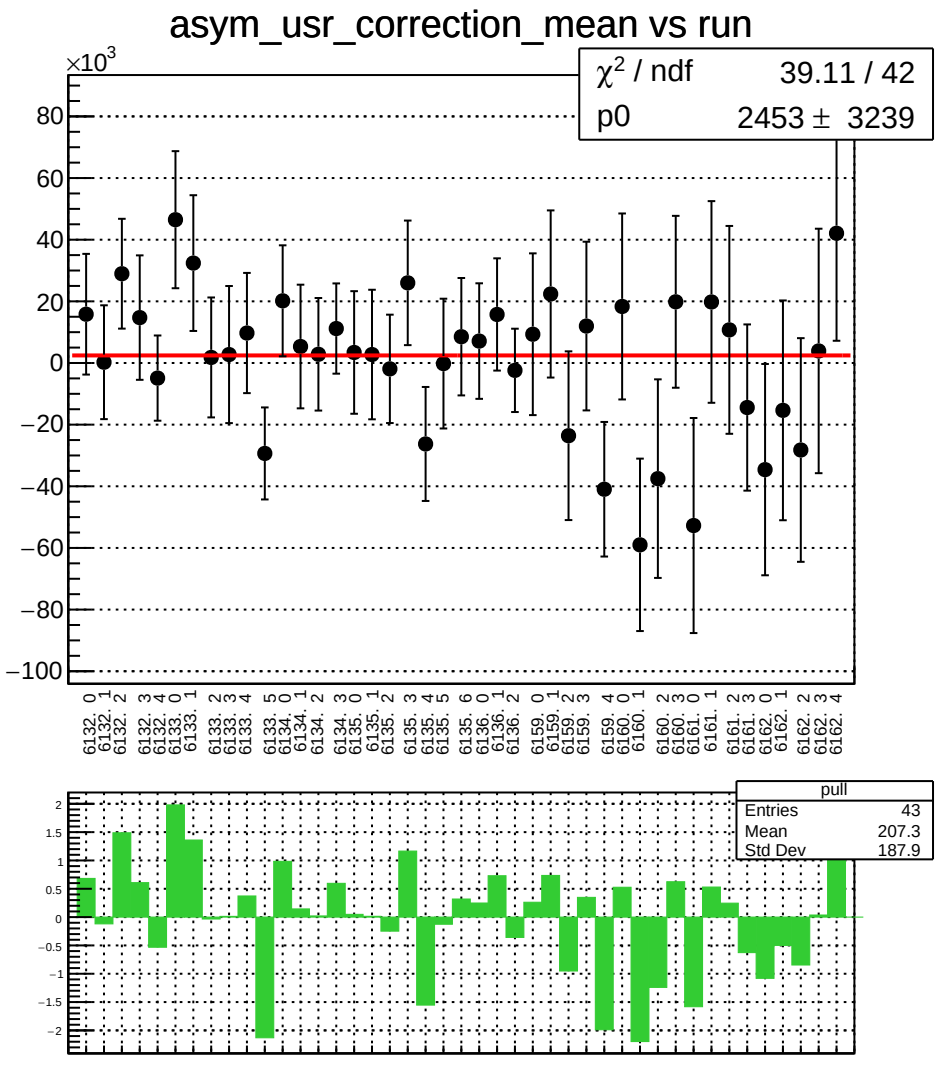

asym_usl_mean vs run
χ² / ndf 45.17 / 42
p0 −4886 ± 2037
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −69.12
Std Dev 60.58
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

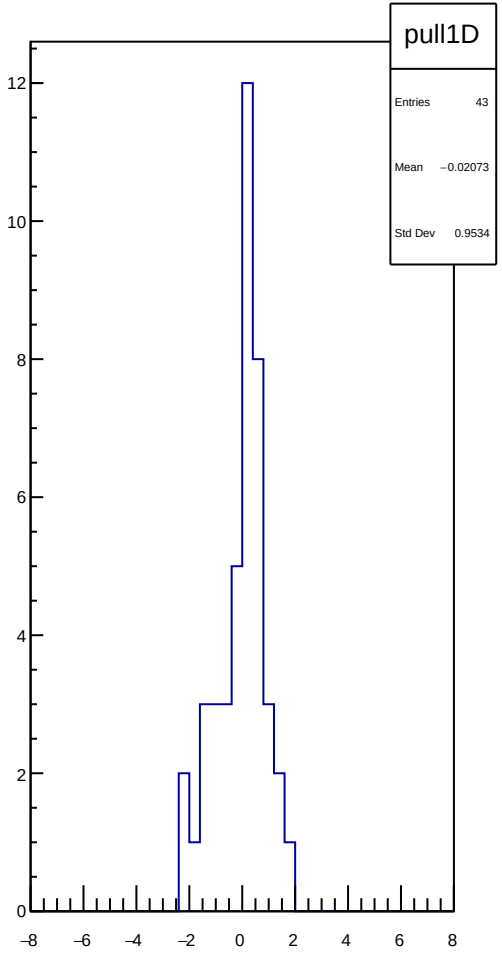

pull1D
Entries 43
Mean −0.003225
Std Dev 1.025
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

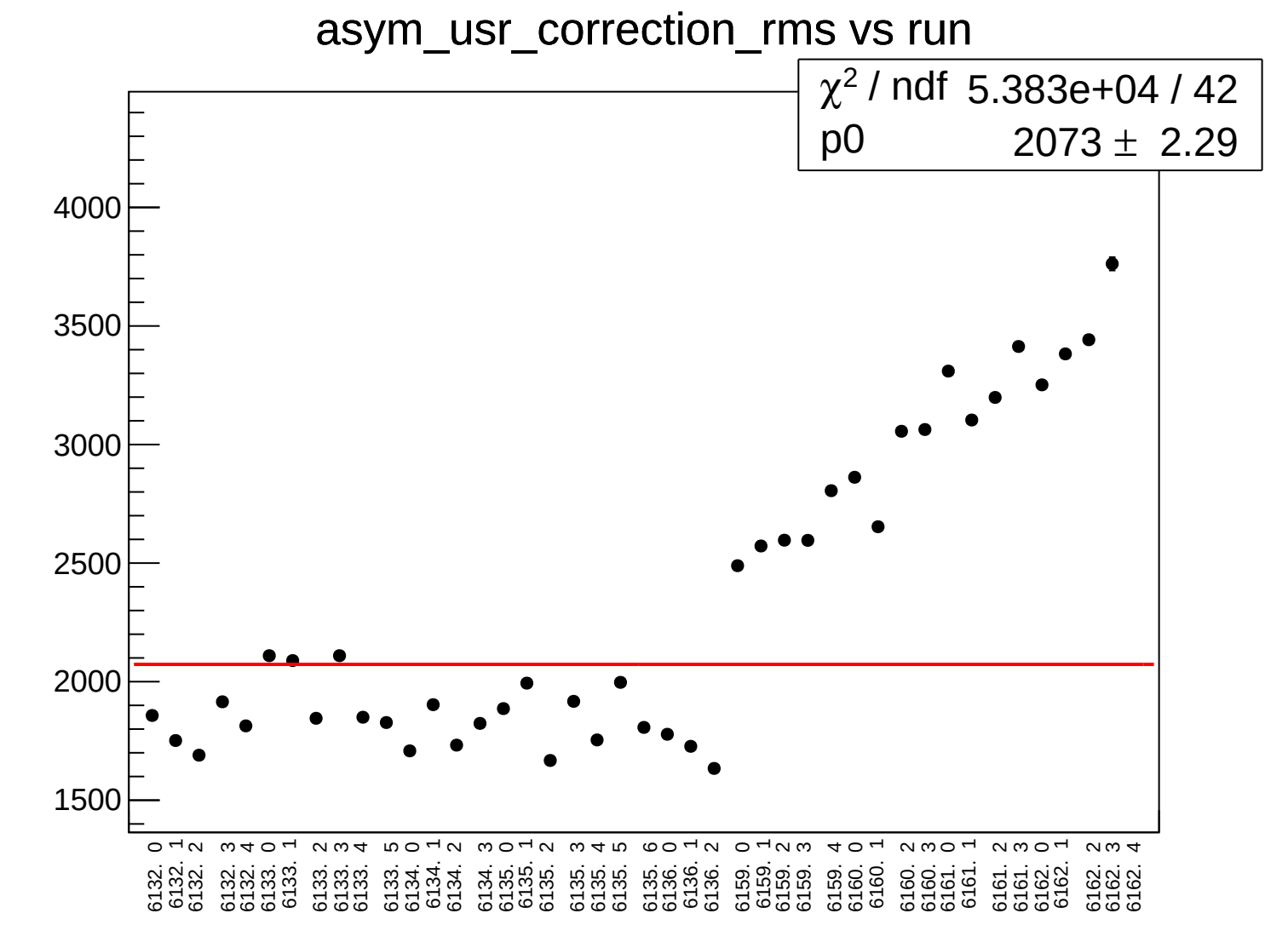

asym_usl_rms vs run
χ² / ndf 945.9 / 42
p0 1345 ± 1.44
1500
1450
1400
1350
1300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

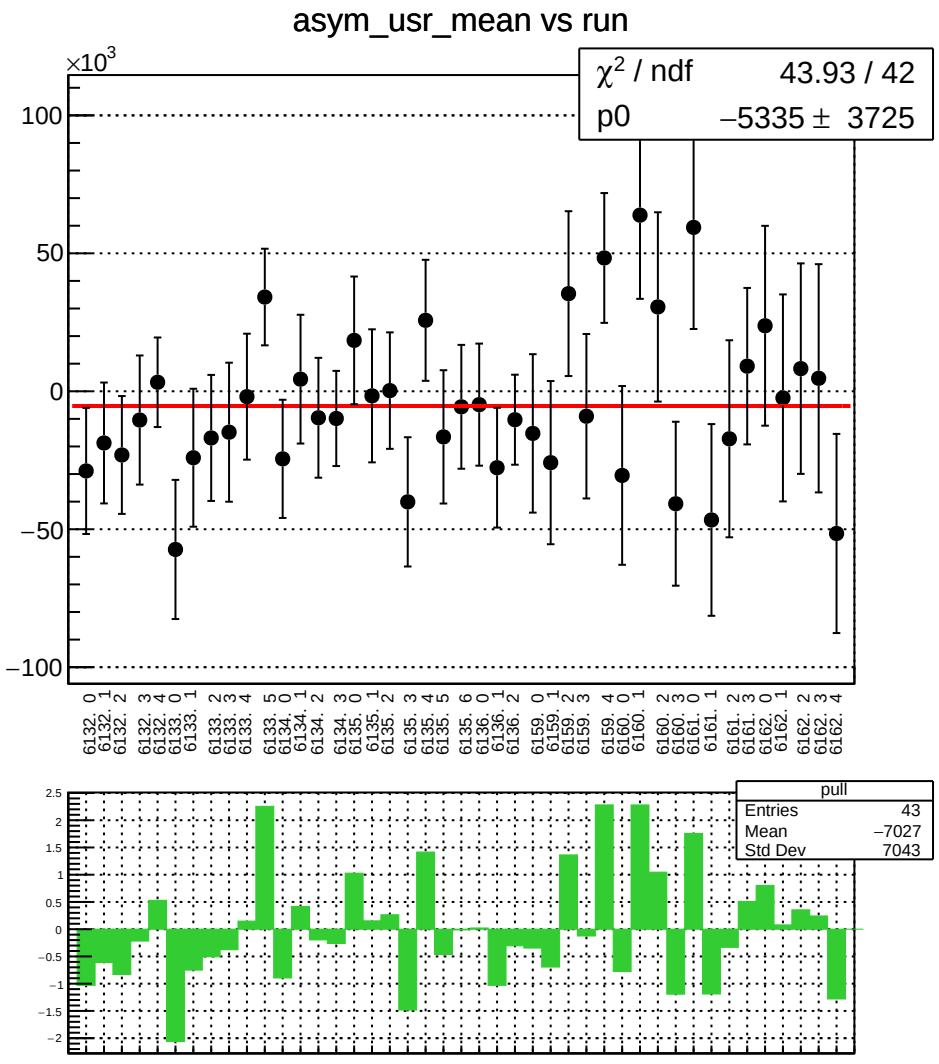

reg_asym_usr_mean vs run
χ² / ndf 36.11 / 42
p0 −3952 ± 1694
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 495.7
Std Dev 467.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.004758
Std Dev 0.9164
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

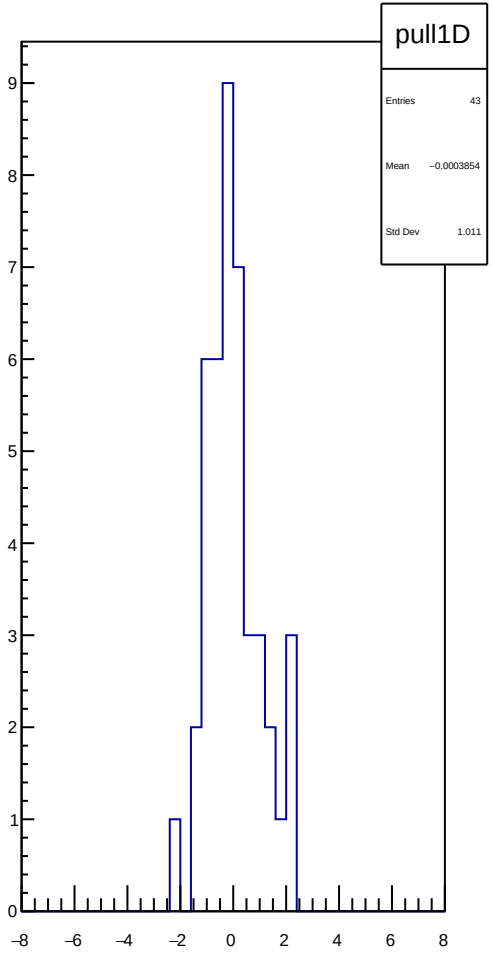

reg_asym_usr_rms vs run
χ² / ndf 47.49 / 42
p0 1119 ± 1.198
1140
1130
1120
1110
1100
1090
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

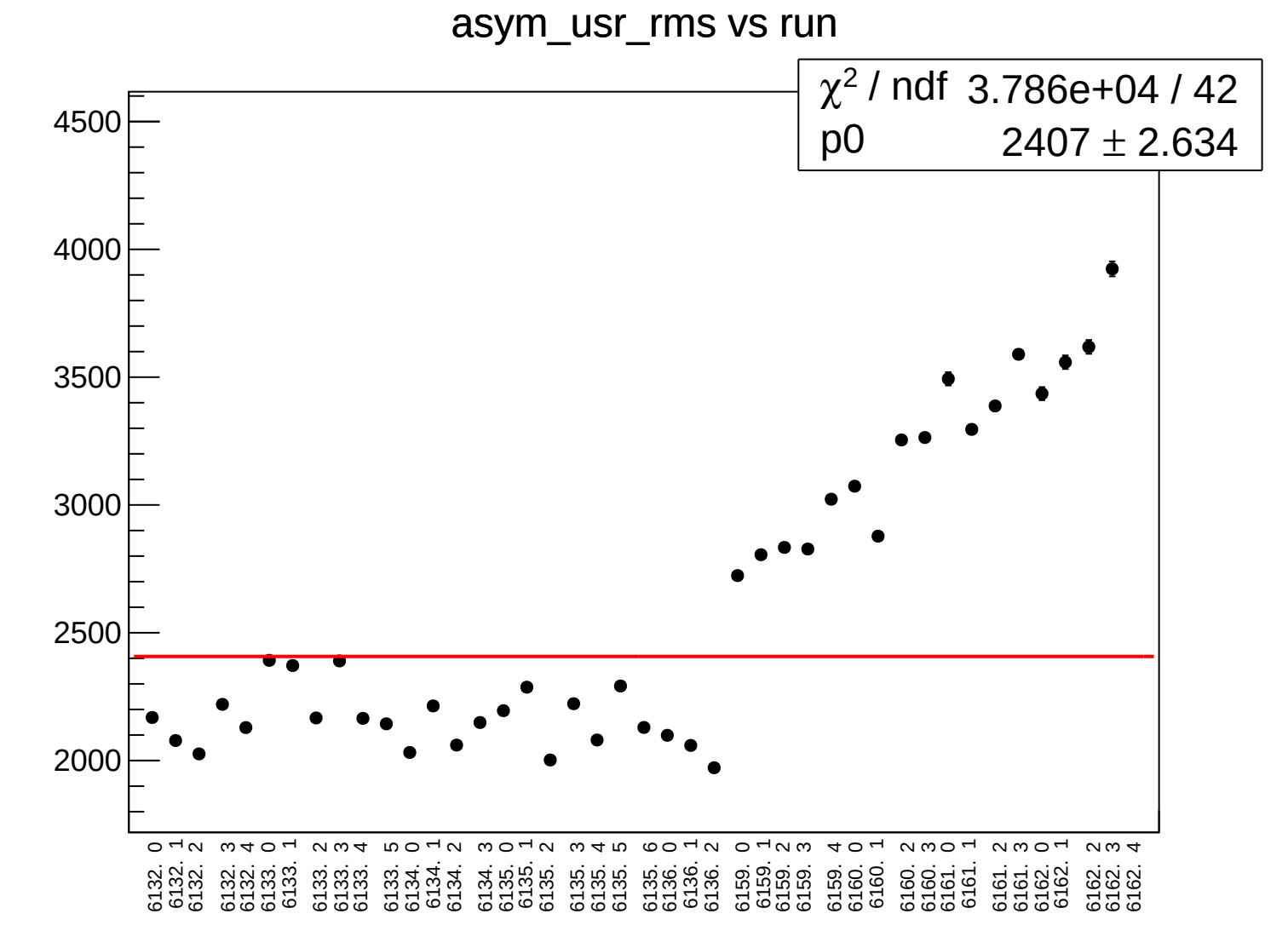

asym_usr_correction_mean vs run
×10^3
χ² / ndf 39.11 / 42
p0 2453 ± 3239
80
60
40
20
0
−20
−40
−60
−80
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 207.3
Std Dev 187.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

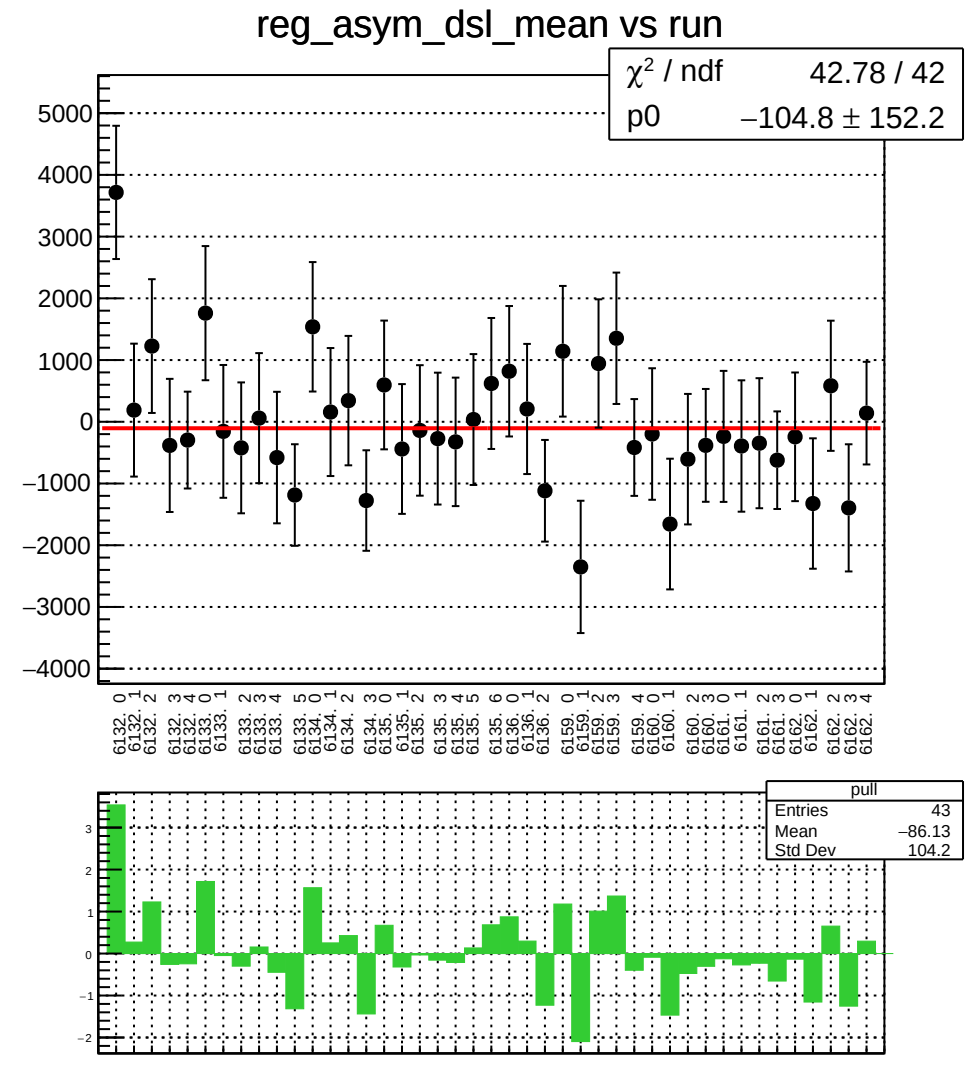

pull1D
Entries 43
Mean −0.02073
Std Dev 0.9534
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

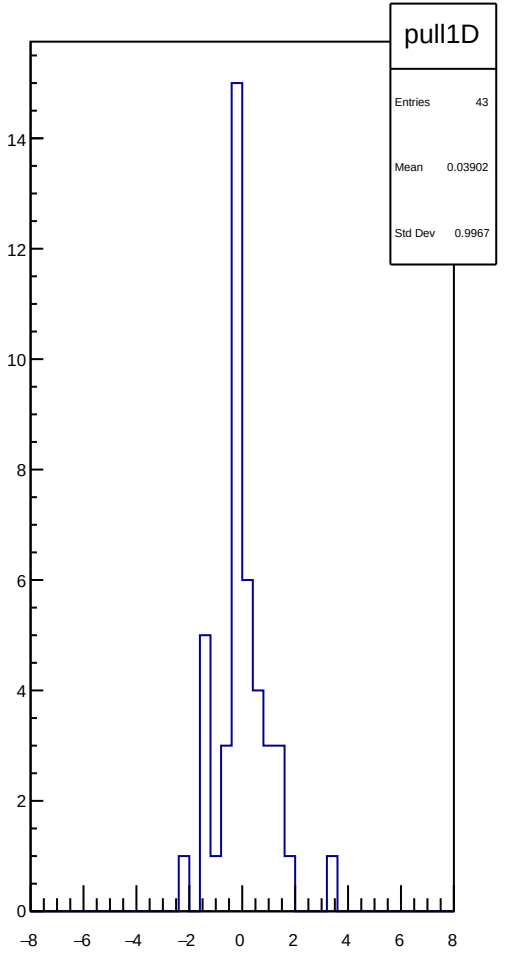

asym_usr_correction_rms vs run
χ² / ndf 5.383e+04 / 42
p0 2073 ± 2.29
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

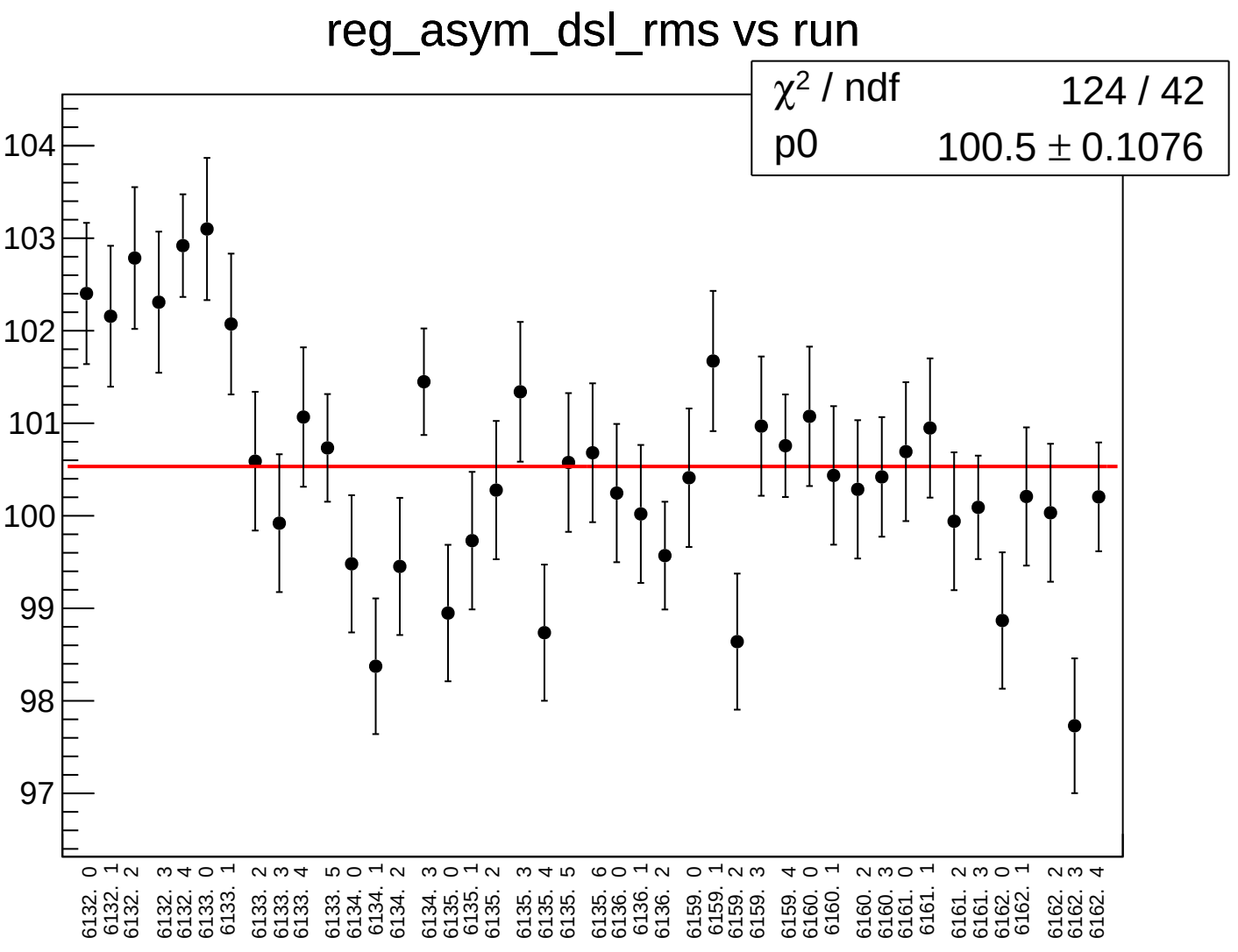

asym_usr_mean vs run
×10^3
χ² / ndf 43.93 / 42
p0 −5335 ± 3725
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −7027
Std Dev 7043
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

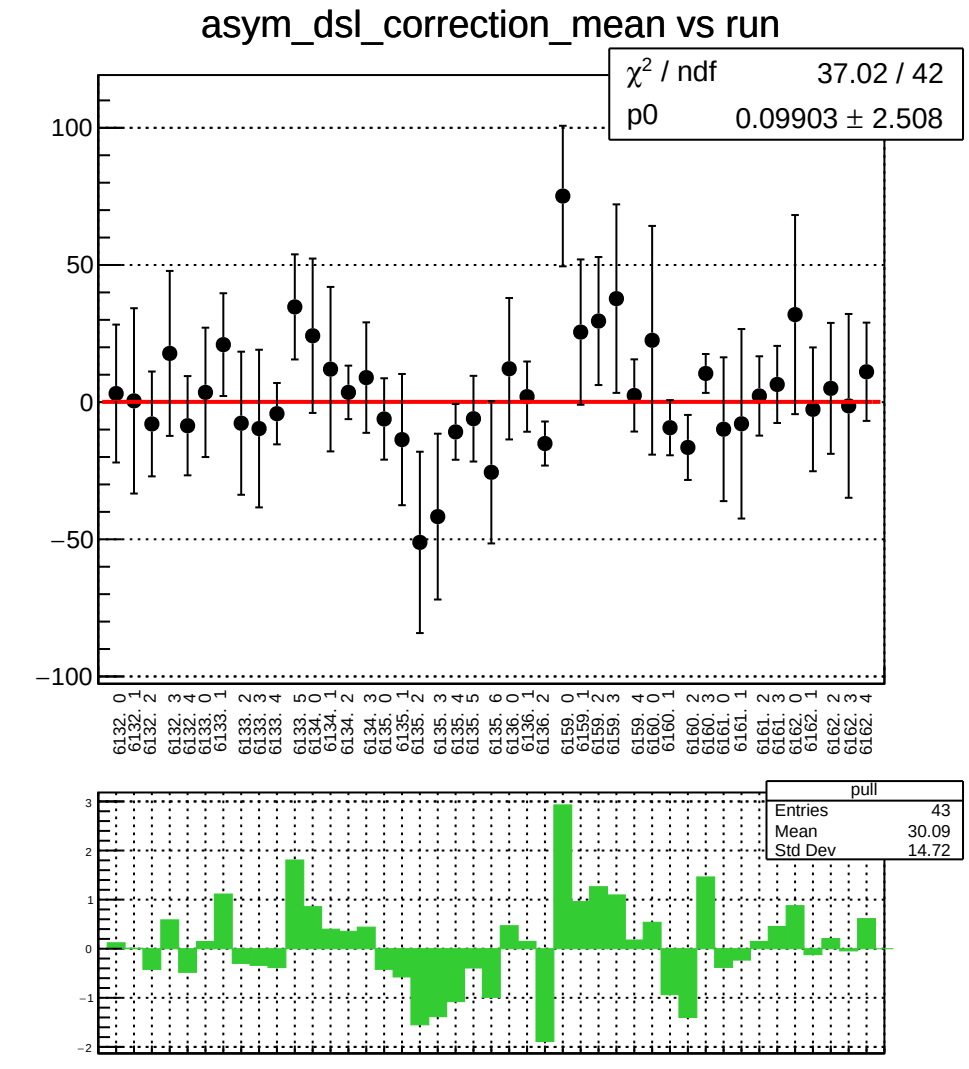

pull1D
Entries 43
Mean −0.0003854
Std Dev 1.011
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

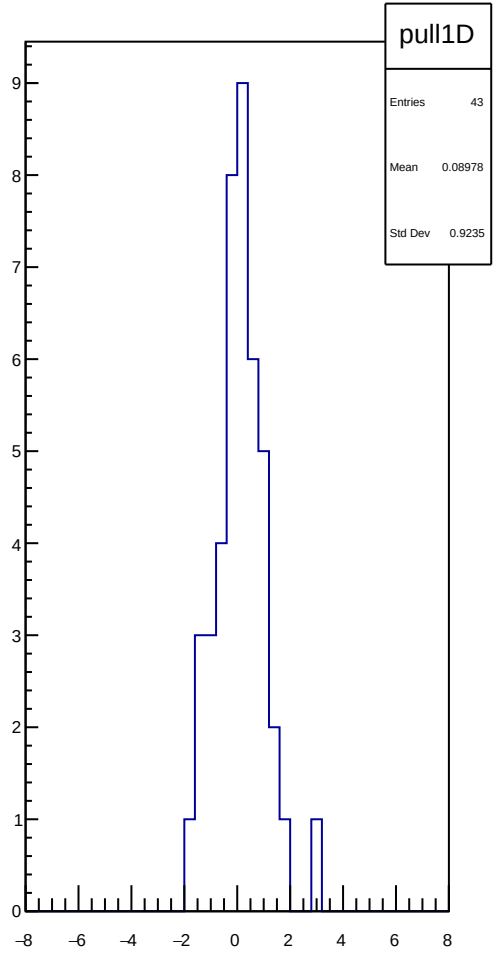

asym_usr_rms vs run
χ² / ndf 3.786e+04 / 42
p0 2407 ± 2.634
4500
4000
3500
3000
2500
2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

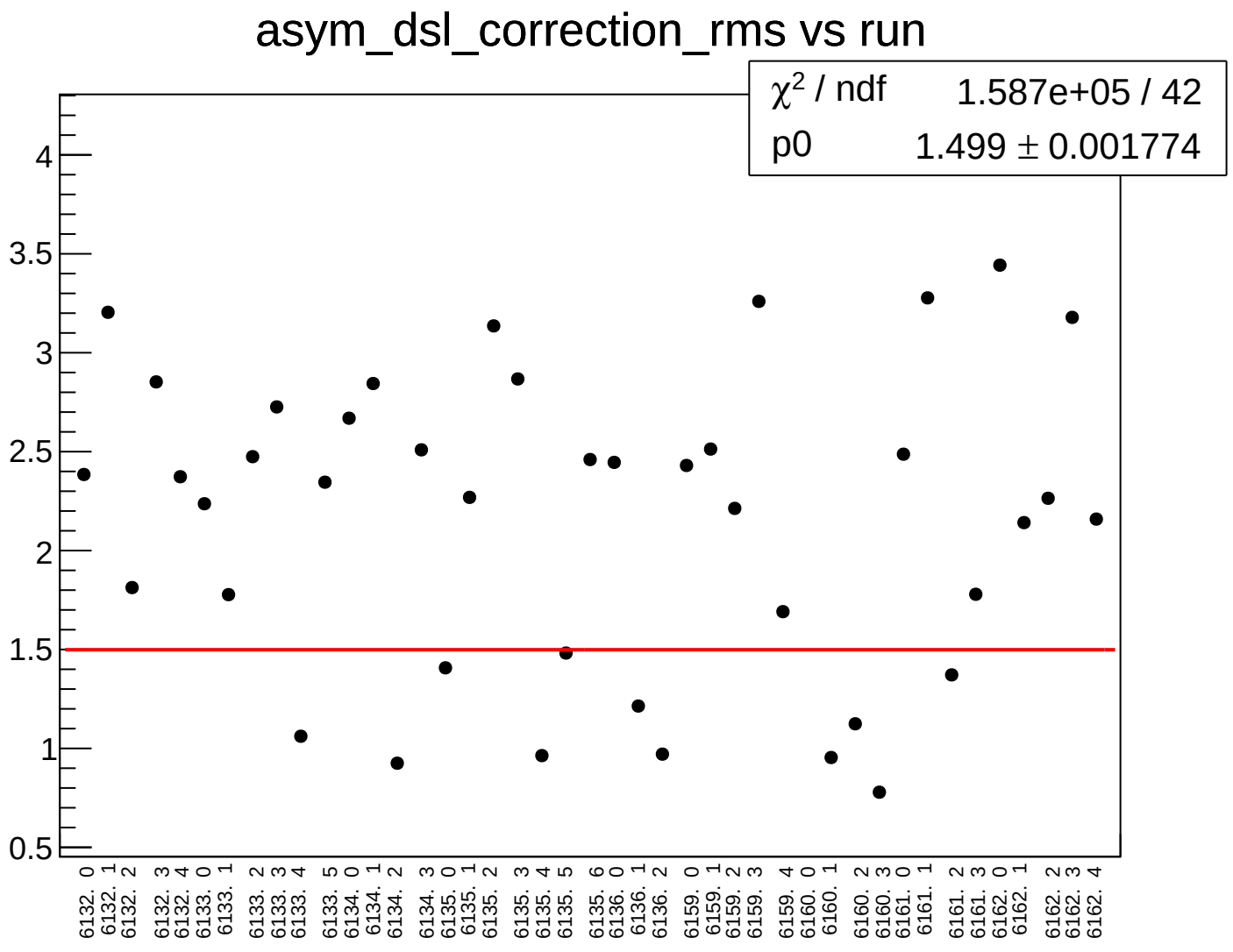

reg_asym_dsl_mean vs run
χ² / ndf 42.78 / 42
p0 −104.8 ± 152.2
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −86.13
Std Dev 104.2
3
2
1
0
−1
−2

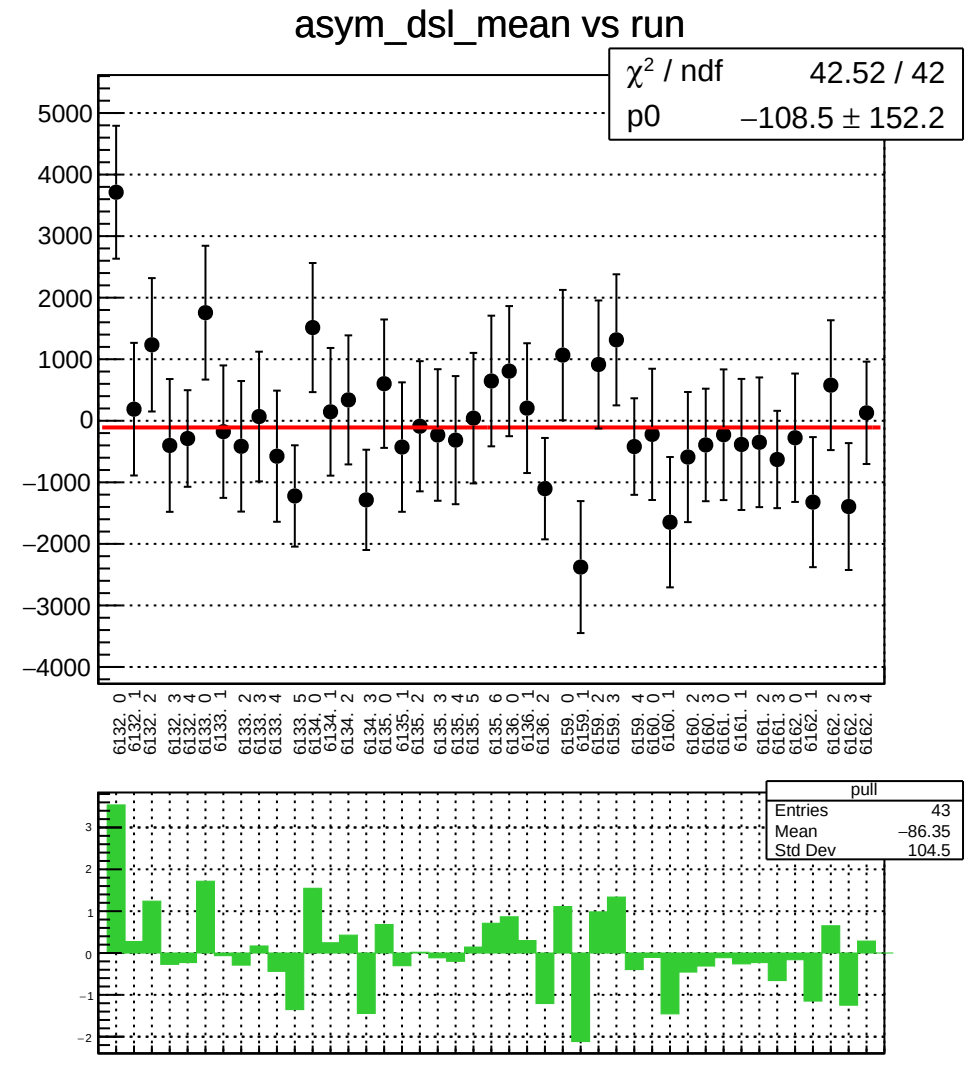

pull1D
Entries 43
Mean 0.03902
Std Dev 0.9967
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

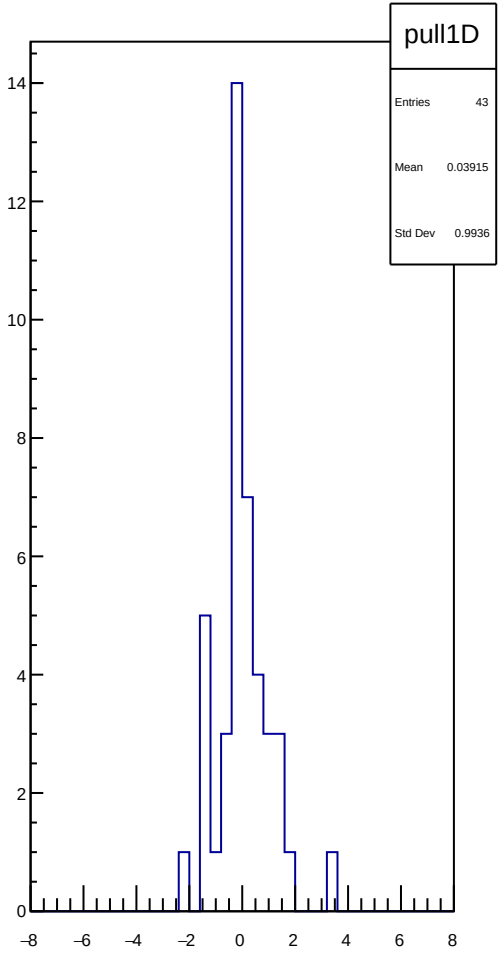

reg_asym_dsl_rms vs run
χ² / ndf 124 / 42
p0 100.5 ± 0.1076
104
103
102
101
100
99
98
97
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

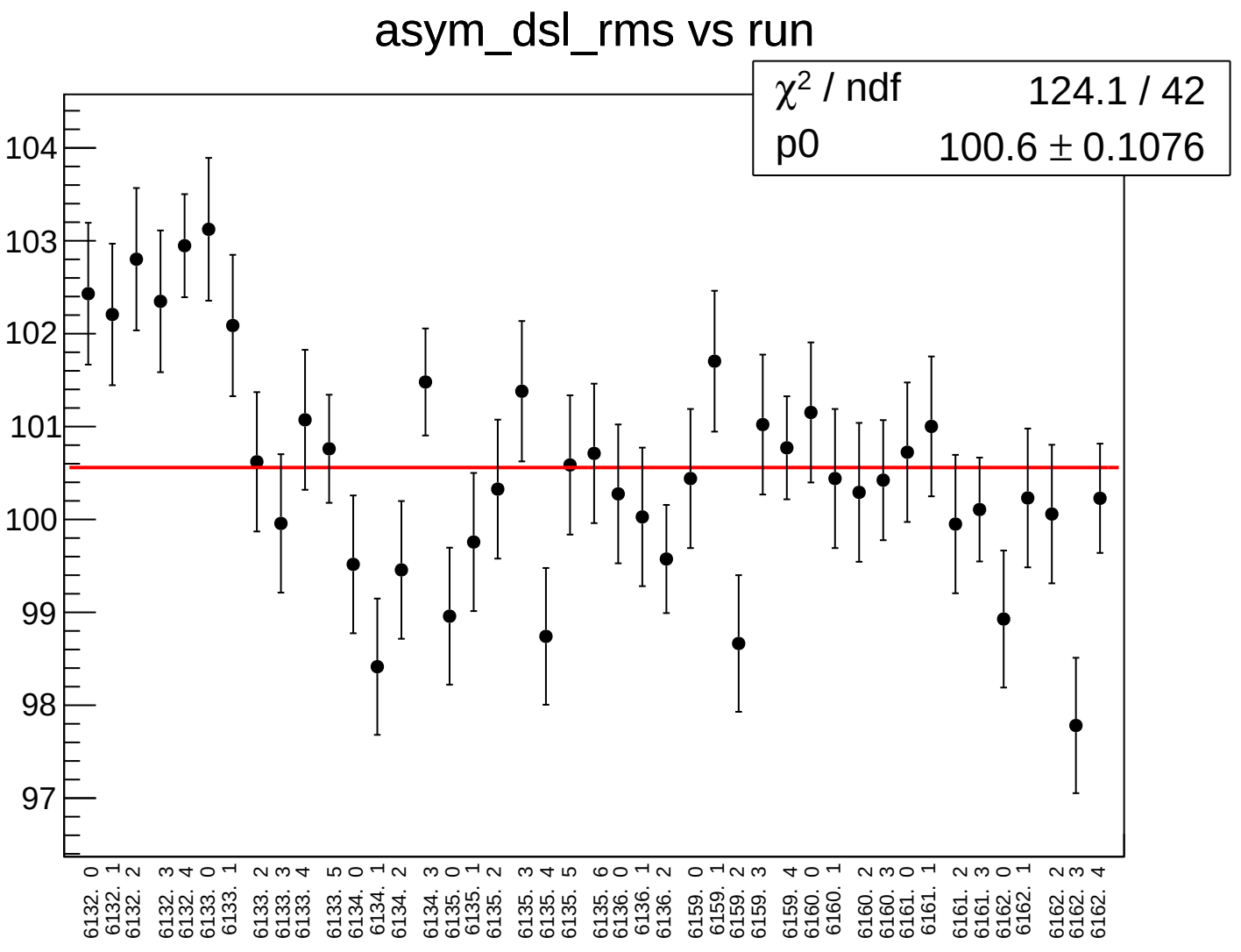

asym_dsl_correction_mean vs run
χ² / ndf 37.02 / 42
p0 0.09903 ± 2.508
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 30.09
Std Dev 14.72
3
2
1
0
−1
−2

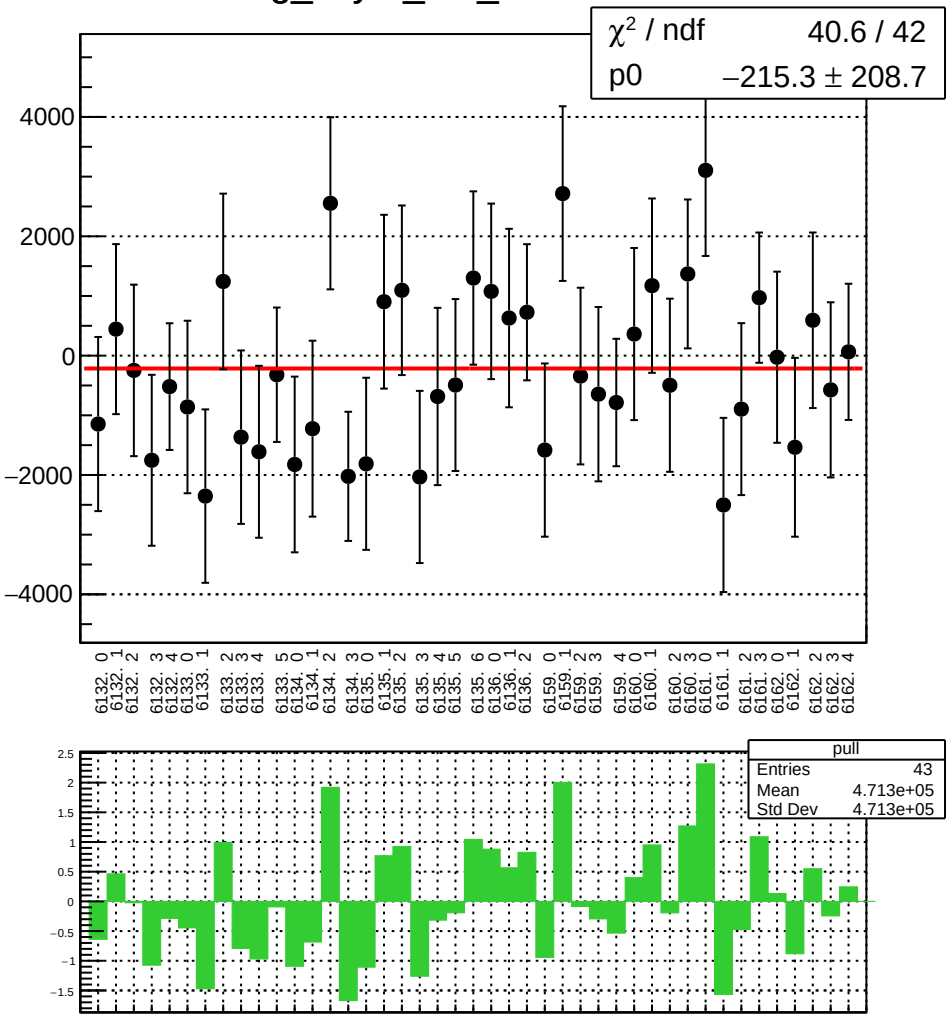

pull1D
Entries 43
Mean 0.08978
Std Dev 0.9235
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

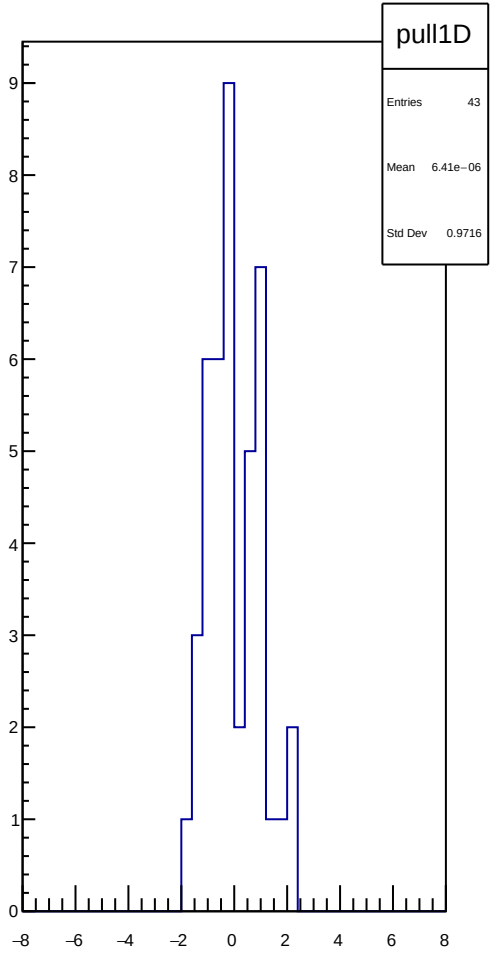

asym_dsl_correction_rms vs run
χ² / ndf 1.587e+05 / 42
p0 1.499 ± 0.001774
4
3.5
3
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

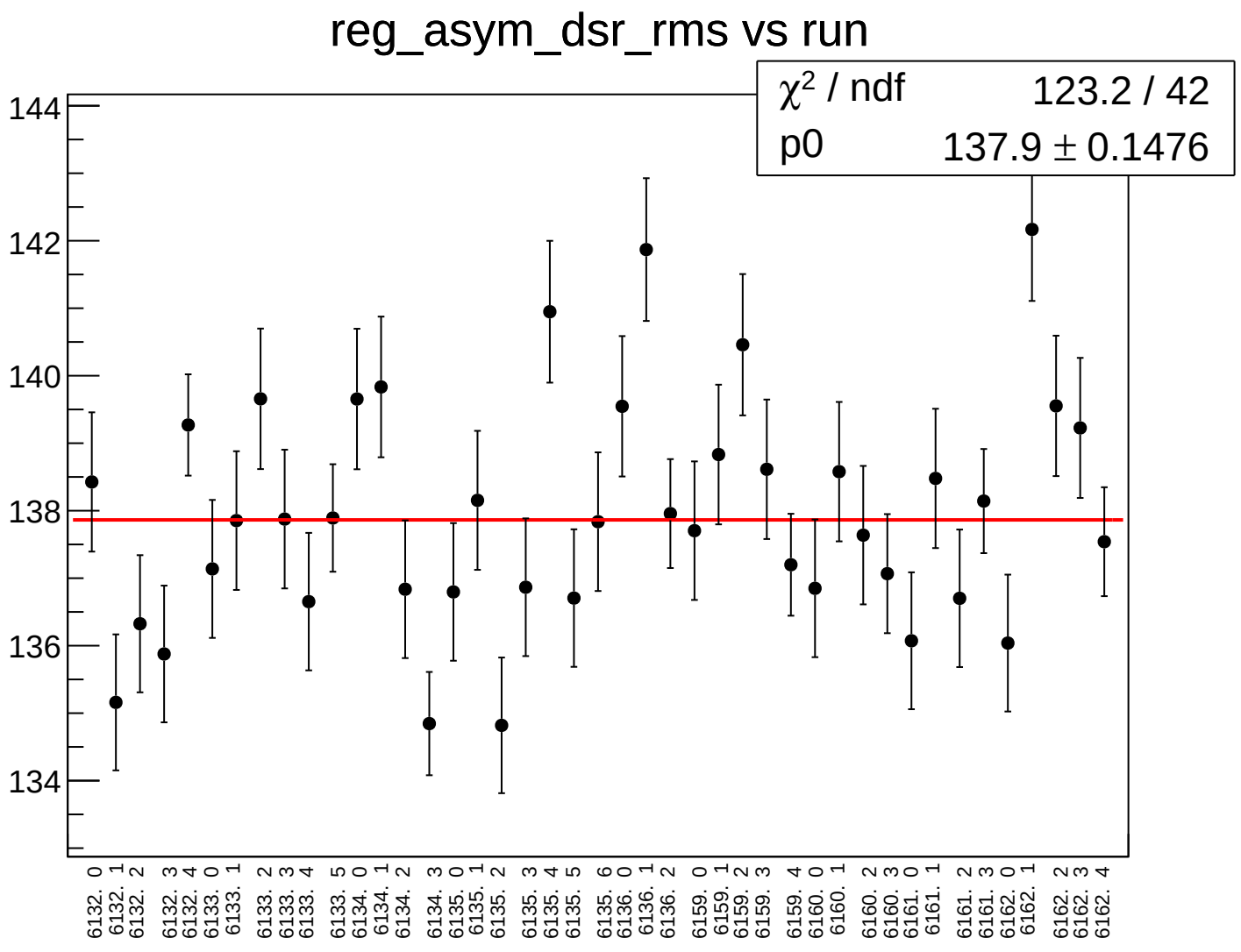

asym_dsl_mean vs run
χ² / ndf 42.52 / 42
p0 −108.5 ± 152.2
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −86.35
Std Dev 104.5
3
2
1
0
−1
−2

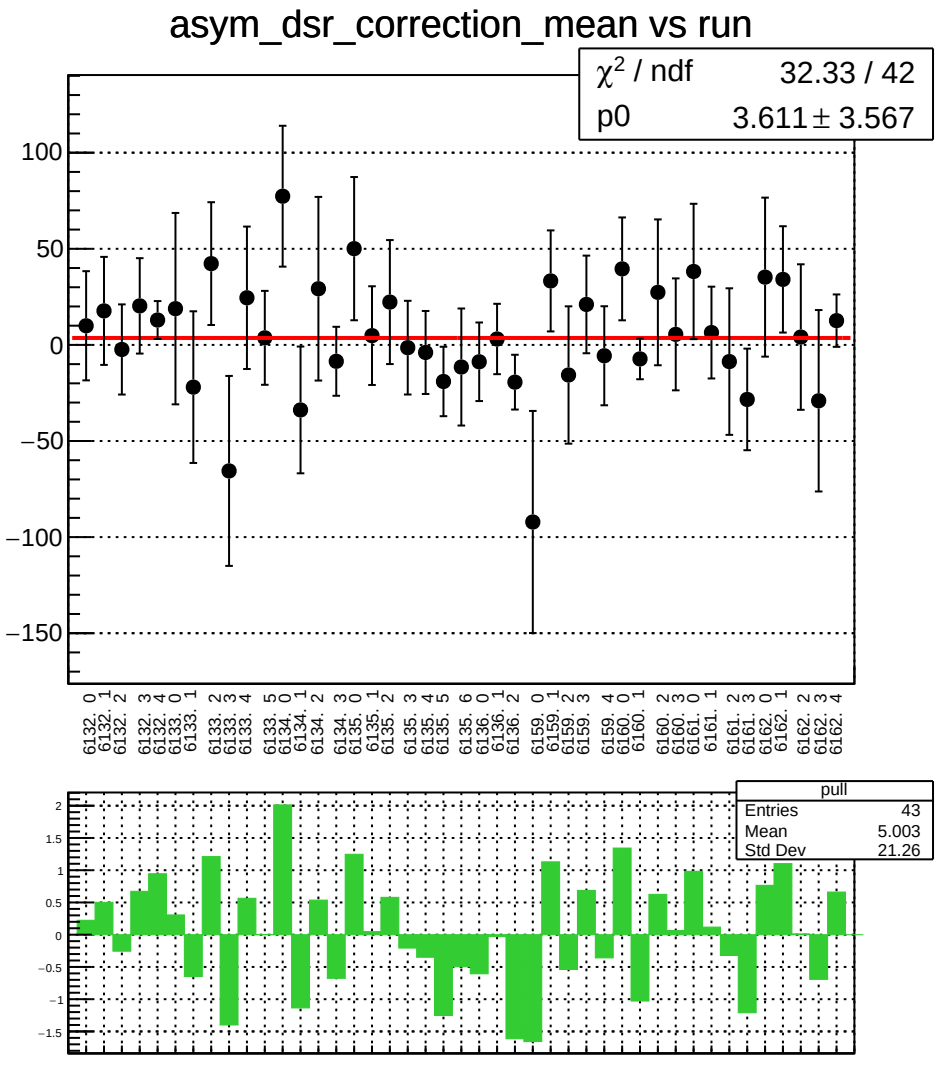

pull1D
Entries 43
Mean 0.03915
Std Dev 0.9936
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

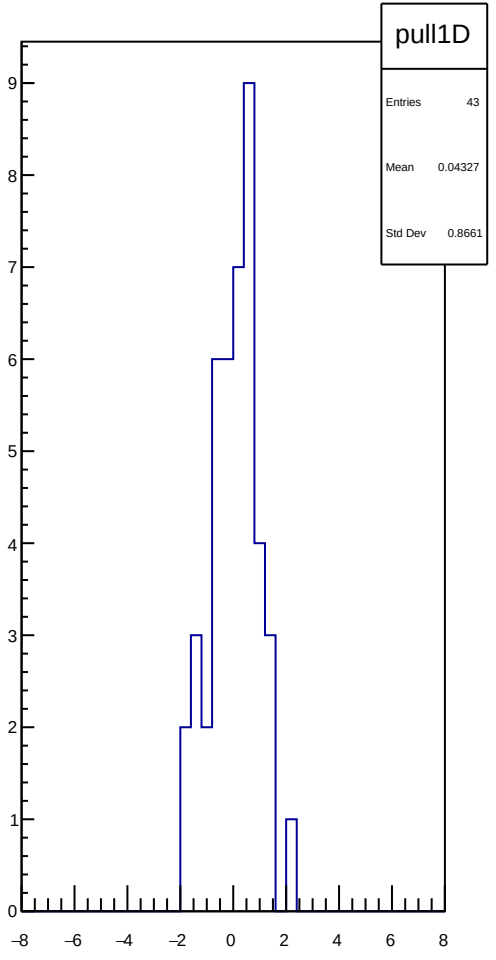

asym_dsl_rms vs run
χ² / ndf 124.1 / 42
p0 100.6 ± 0.1076
104
103
102
101
100
99
98
97
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

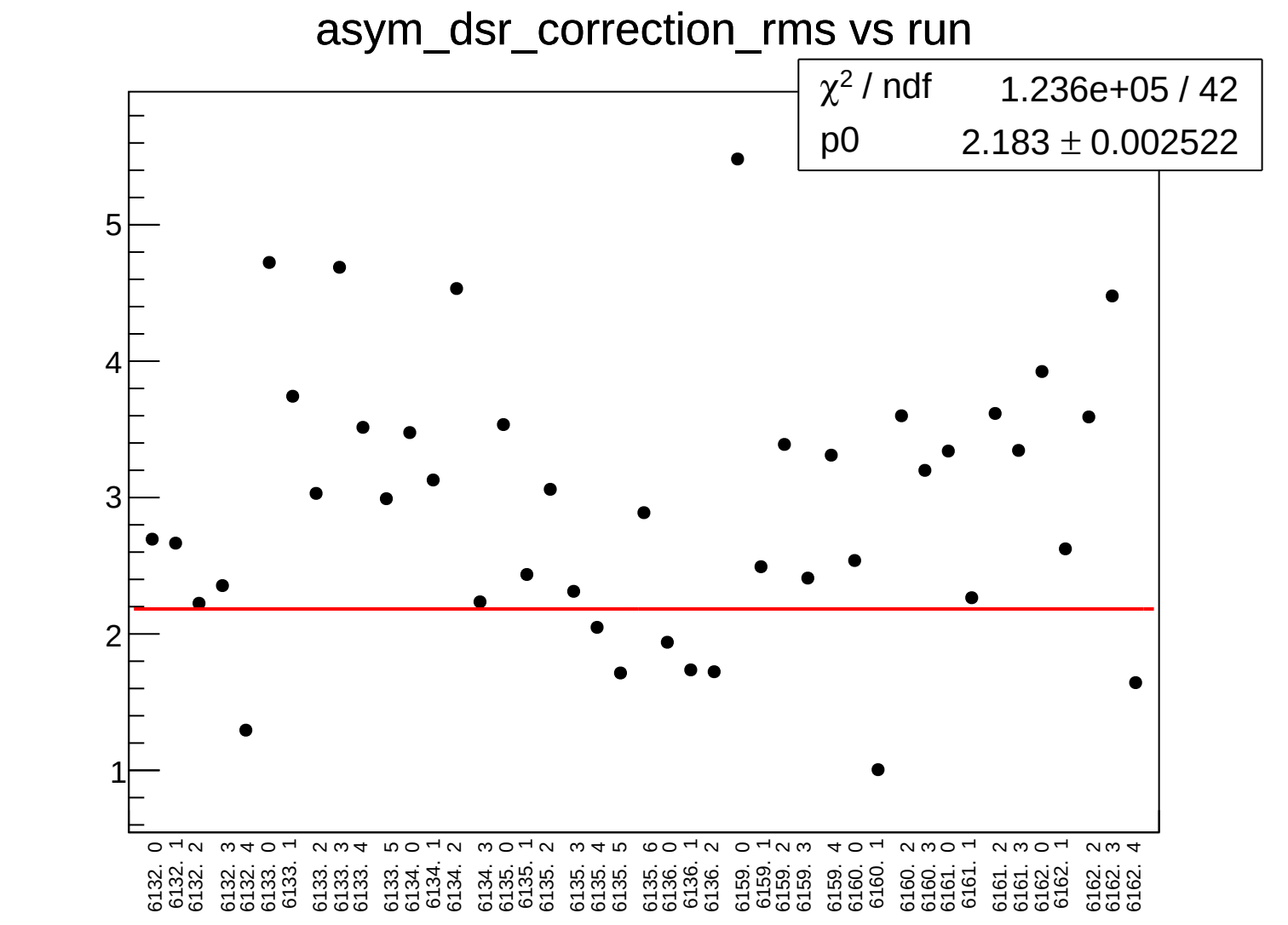

reg_asym_dsr_mean vs run
χ² / ndf 40.6 / 42
p0 −215.3 ± 208.7
4000
2000
0
−2000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 4.713e+05
Std Dev 4.713e+05
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

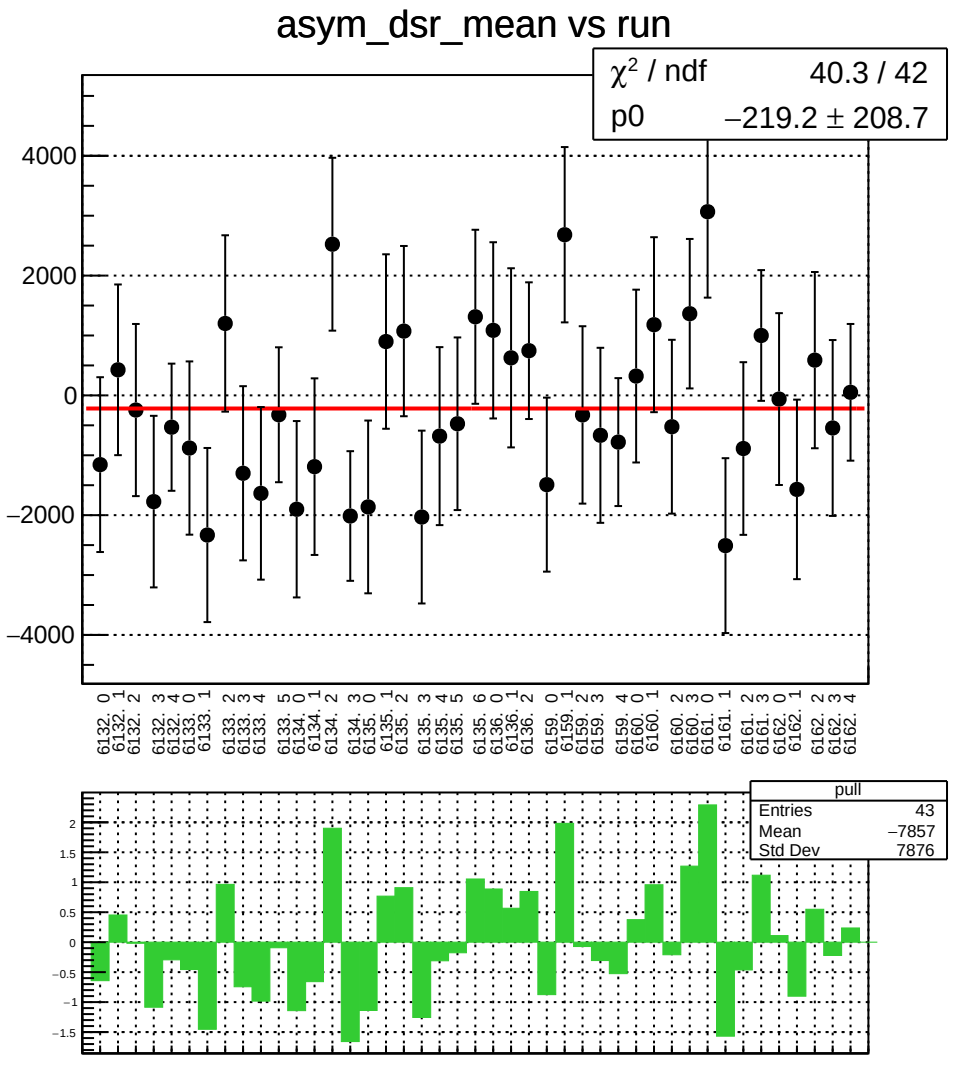

pull1D
Entries 43
Mean 6.41e−06
Std Dev 0.9716
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

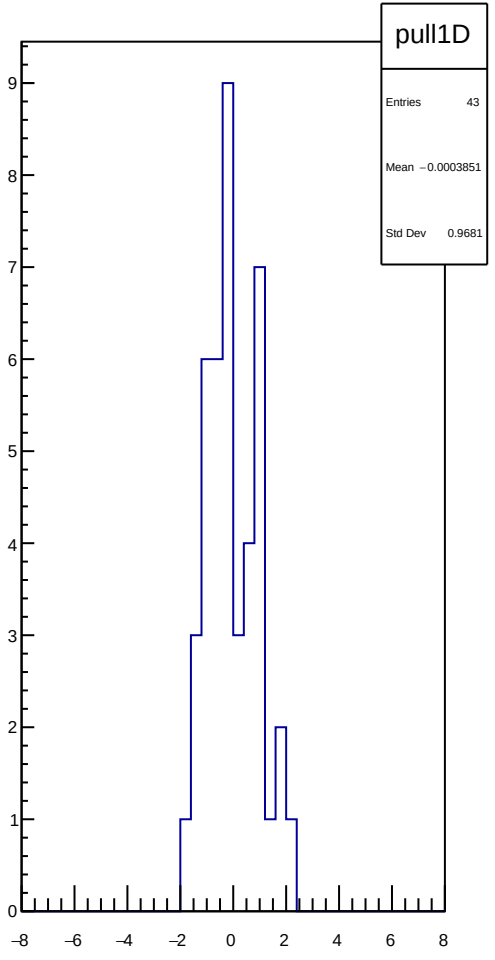

reg_asym_dsr_rms vs run
χ² / ndf 123.2 / 42
p0 137.9 ± 0.1476
144
142
140
138
136
134
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

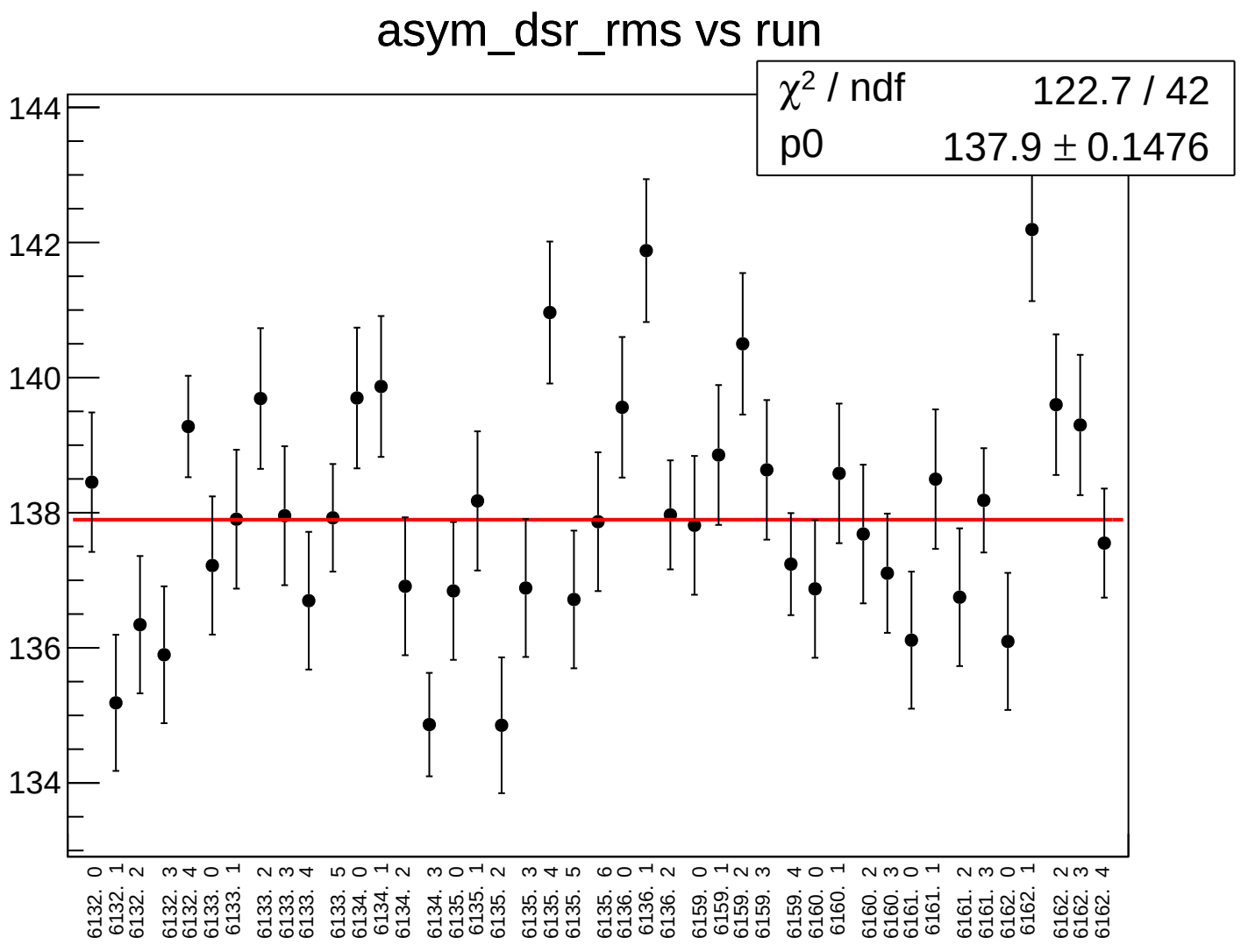

asym_dsr_correction_mean vs run
χ² / ndf 32.33 / 42
p0 3.611 ± 3.567
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 5.003
Std Dev 21.26
2
1.5
1
0.5
0
−0.5
−1
−1.5

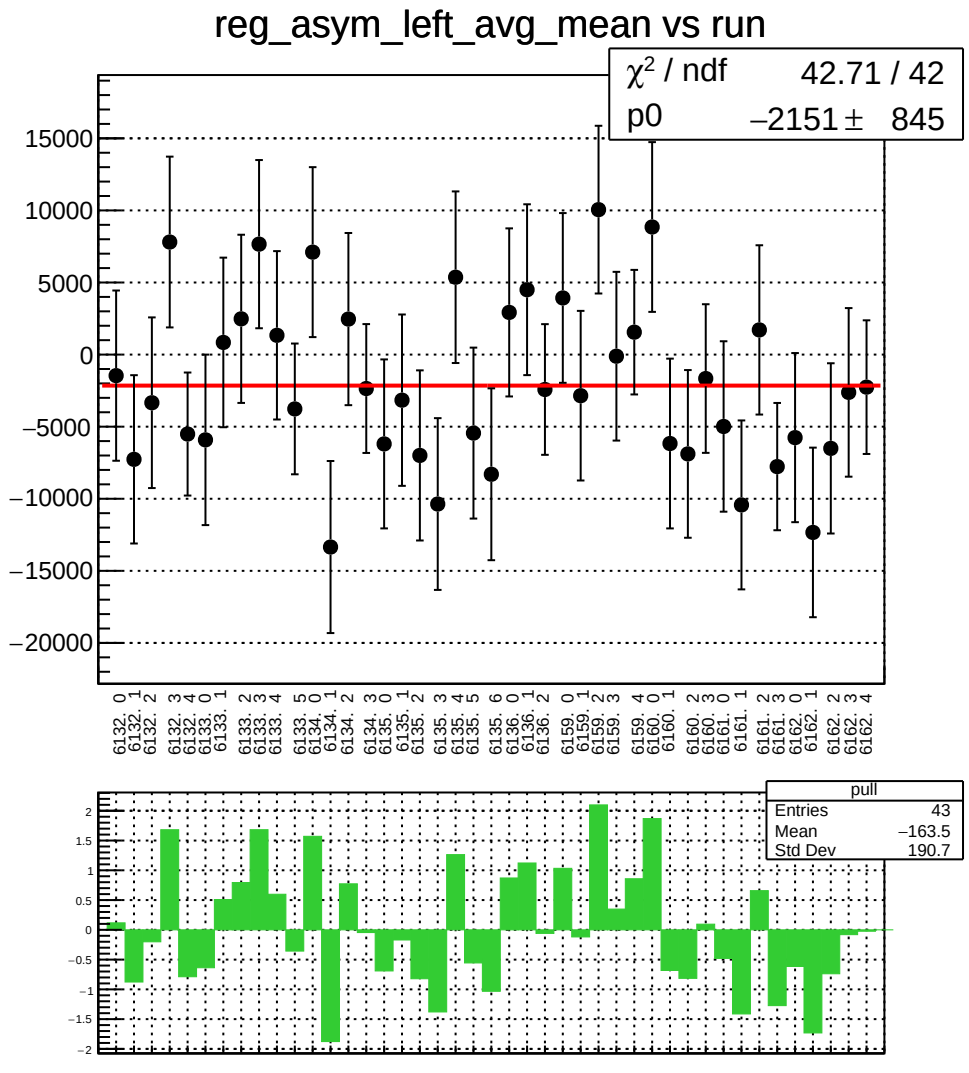

pull1D
Entries 43
Mean 0.04327
Std Dev 0.8661
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

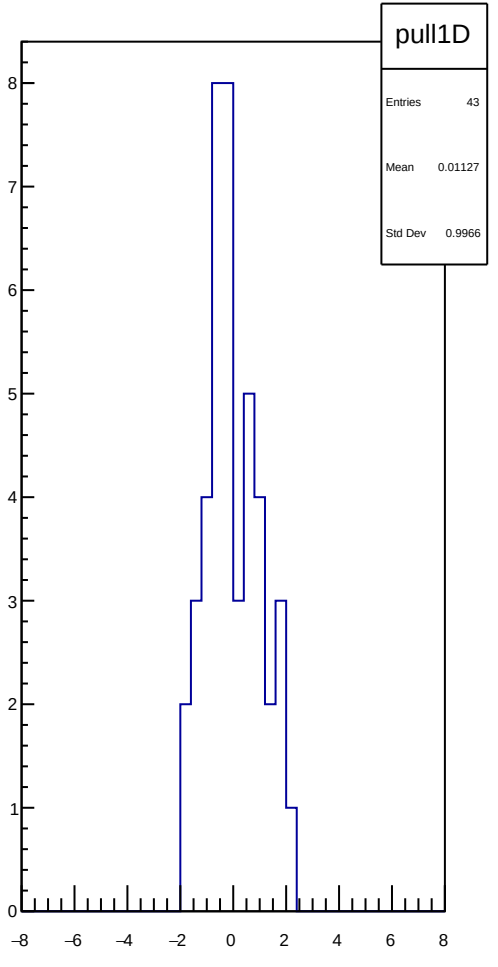

asym_dsr_correction_rms vs run
χ² / ndf 1.236e+05 / 42
p0 2.183 ± 0.002522
5
4
3
2
1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

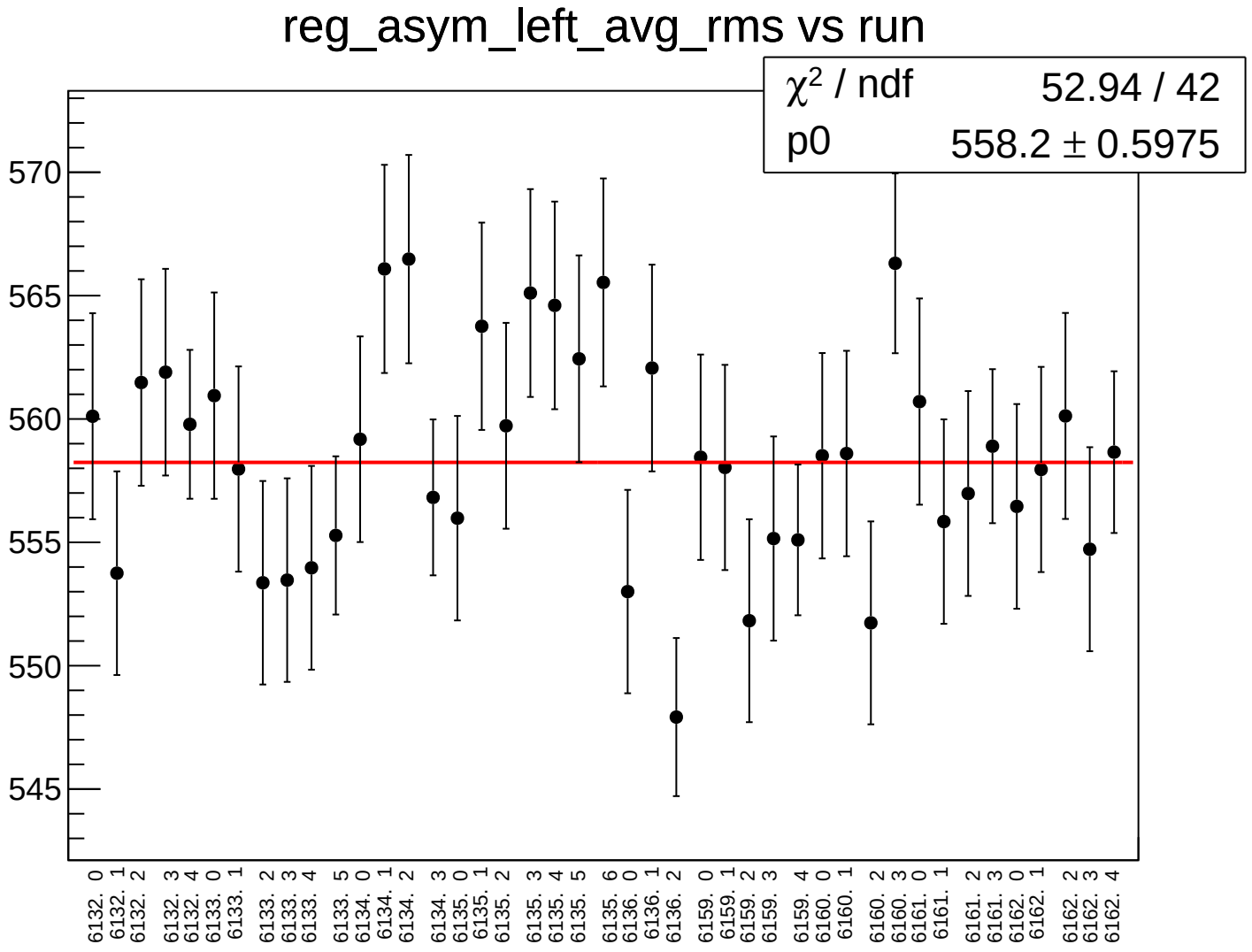

asym_dsr_mean vs run
χ² / ndf 40.3 / 42
p0 −219.2 ± 208.7
4000
2000
0
−2000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −7857
Std Dev 7876
2
1.5
1
0.5
0
−0.5
−1
−1.5

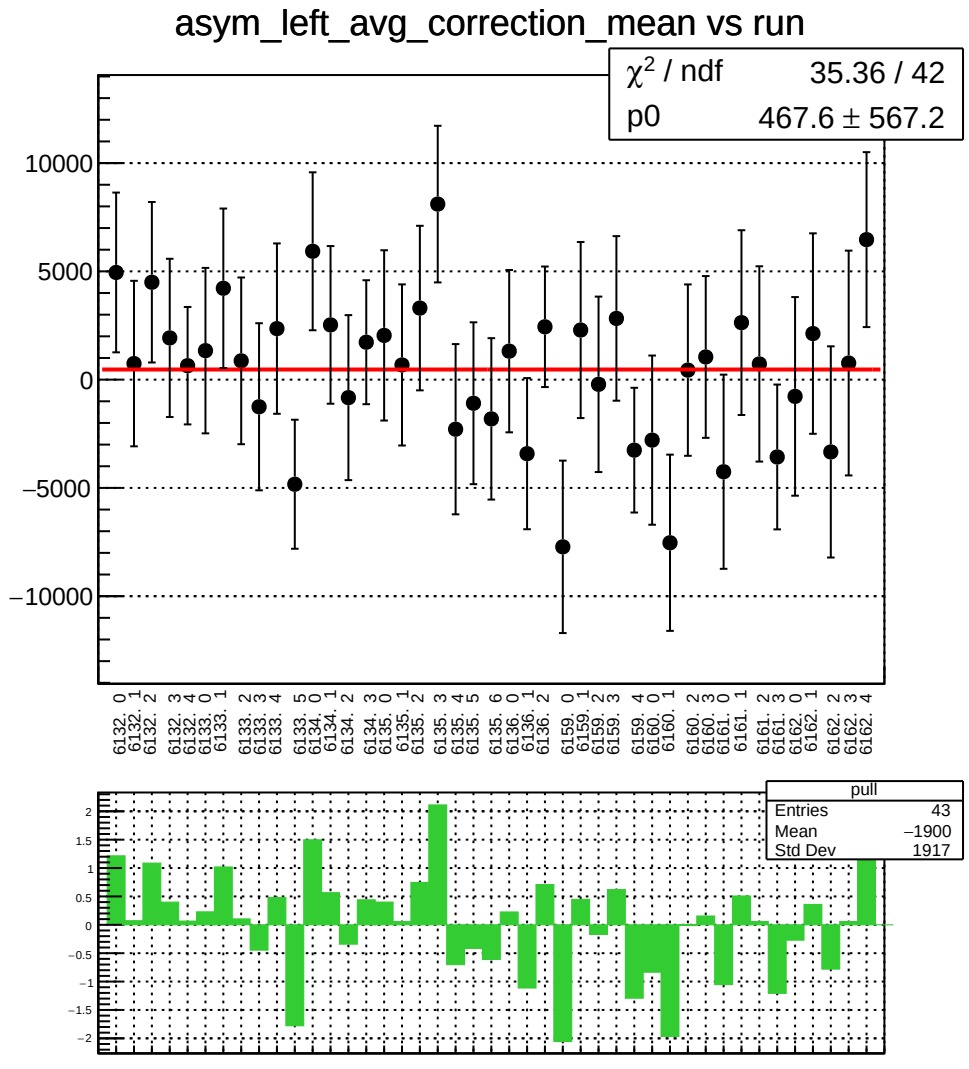

pull1D
Entries 43
Mean −0.0003851
Std Dev 0.9681
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

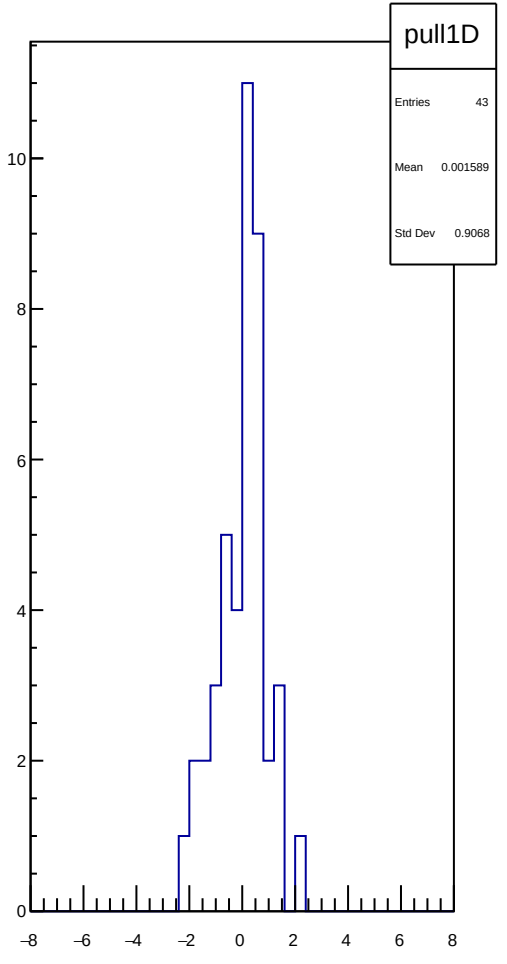

asym_dsr_rms vs run
χ² / ndf 122.7 / 42
p0 137.9 ± 0.1476
144
142
140
138
136
134
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

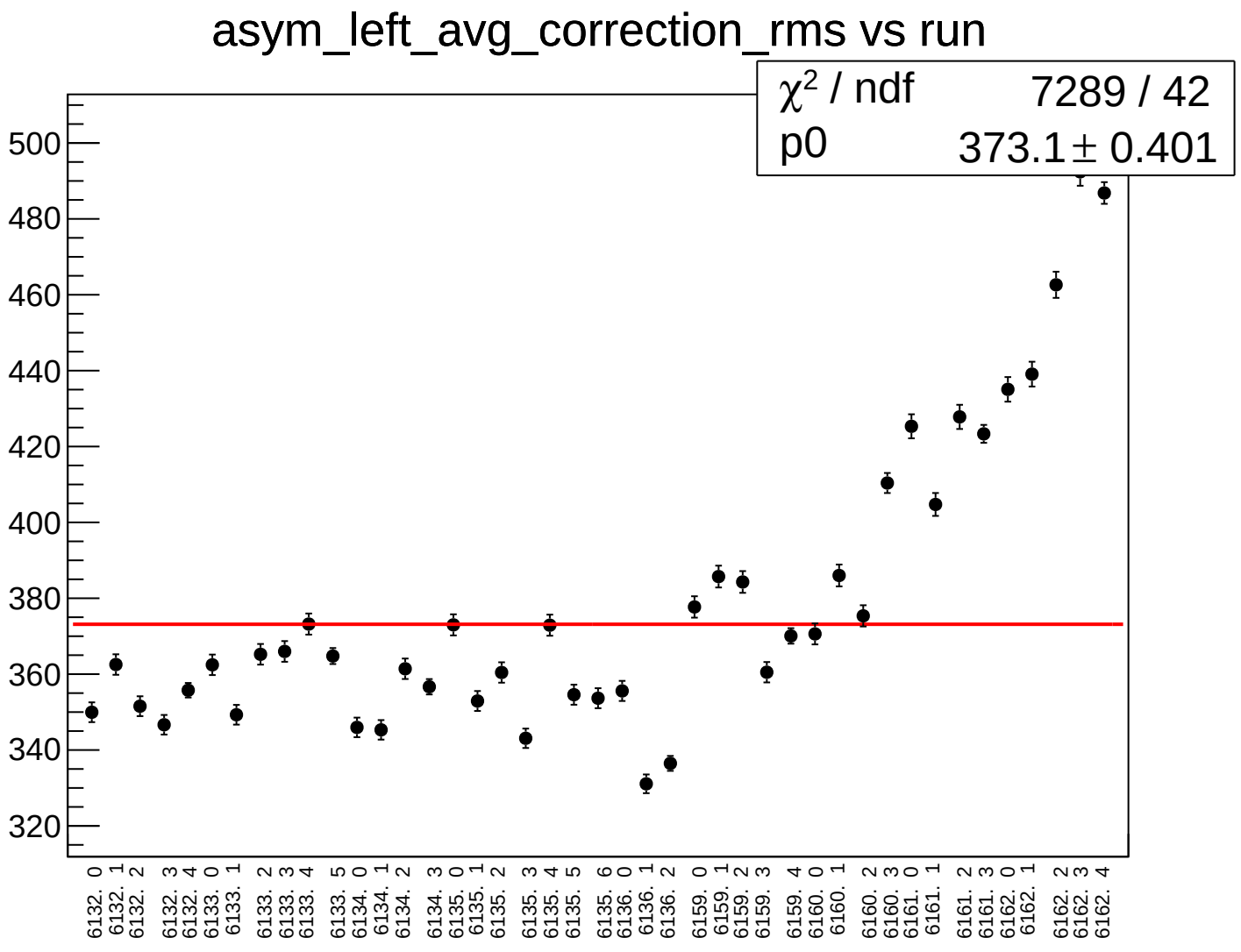

reg_asym_left_avg_mean vs run
χ² / ndf 42.71 / 42
p0 −2151 ± 845
15000
10000
5000
0
−5000
−10000
−15000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −163.5
Std Dev 190.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

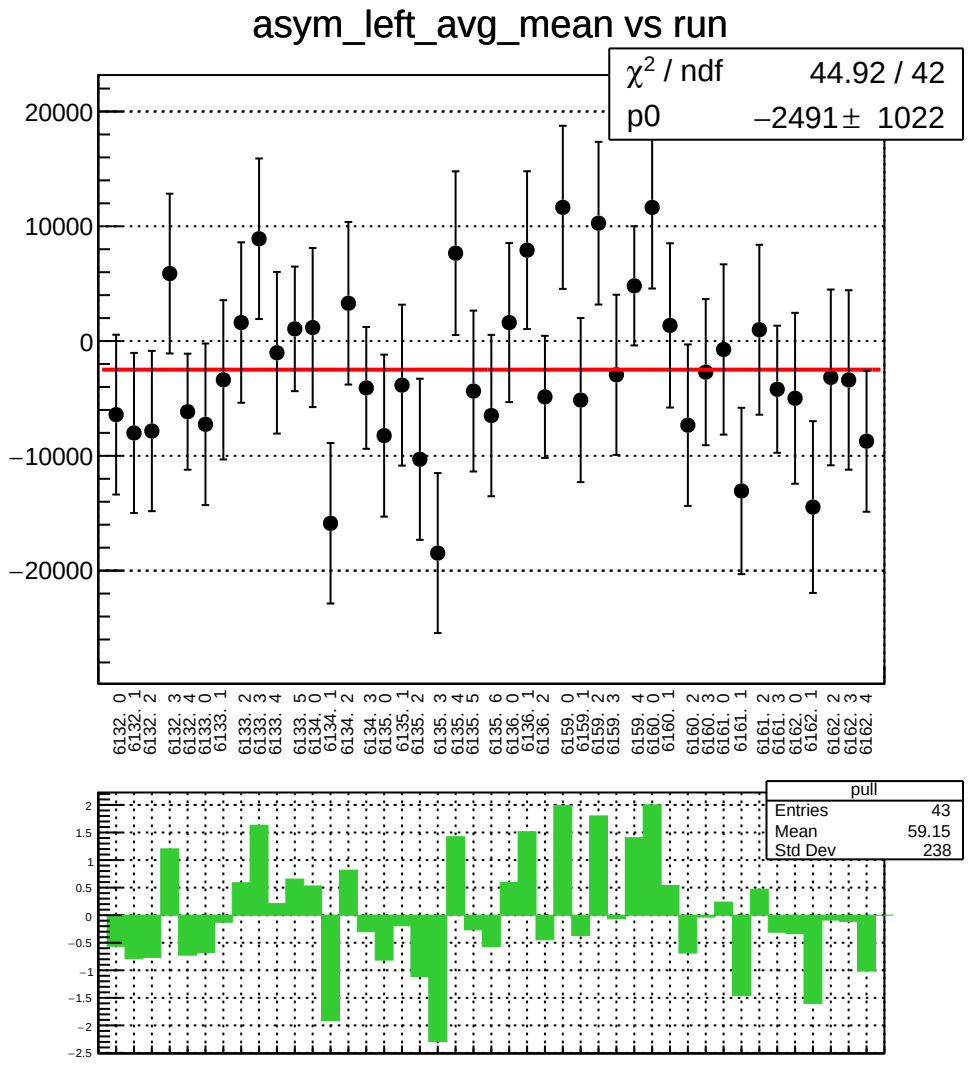

pull1D
Entries 43
Mean 0.01127
Std Dev 0.9966
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

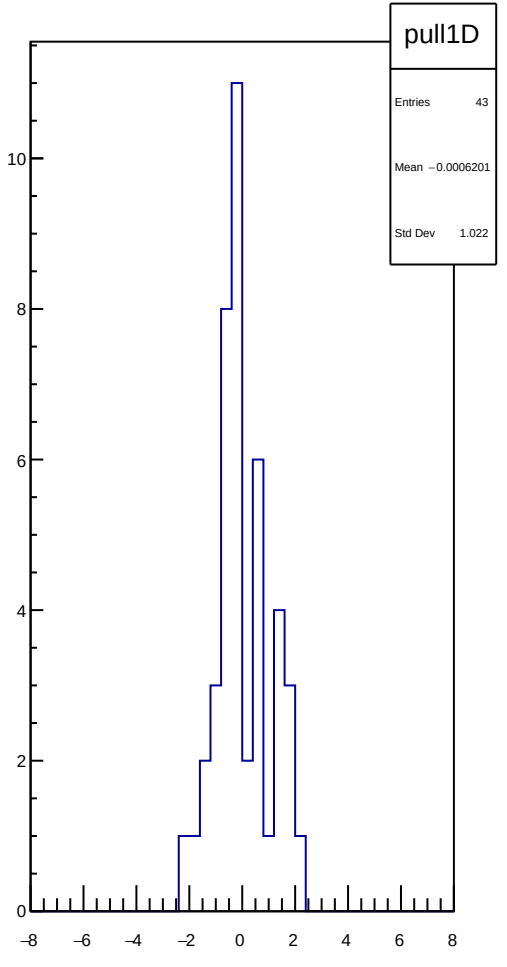

reg_asym_left_avg_rms vs run
χ² / ndf 52.94 / 42
p0 558.2 ± 0.5975
570
565
560
555
550
545
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

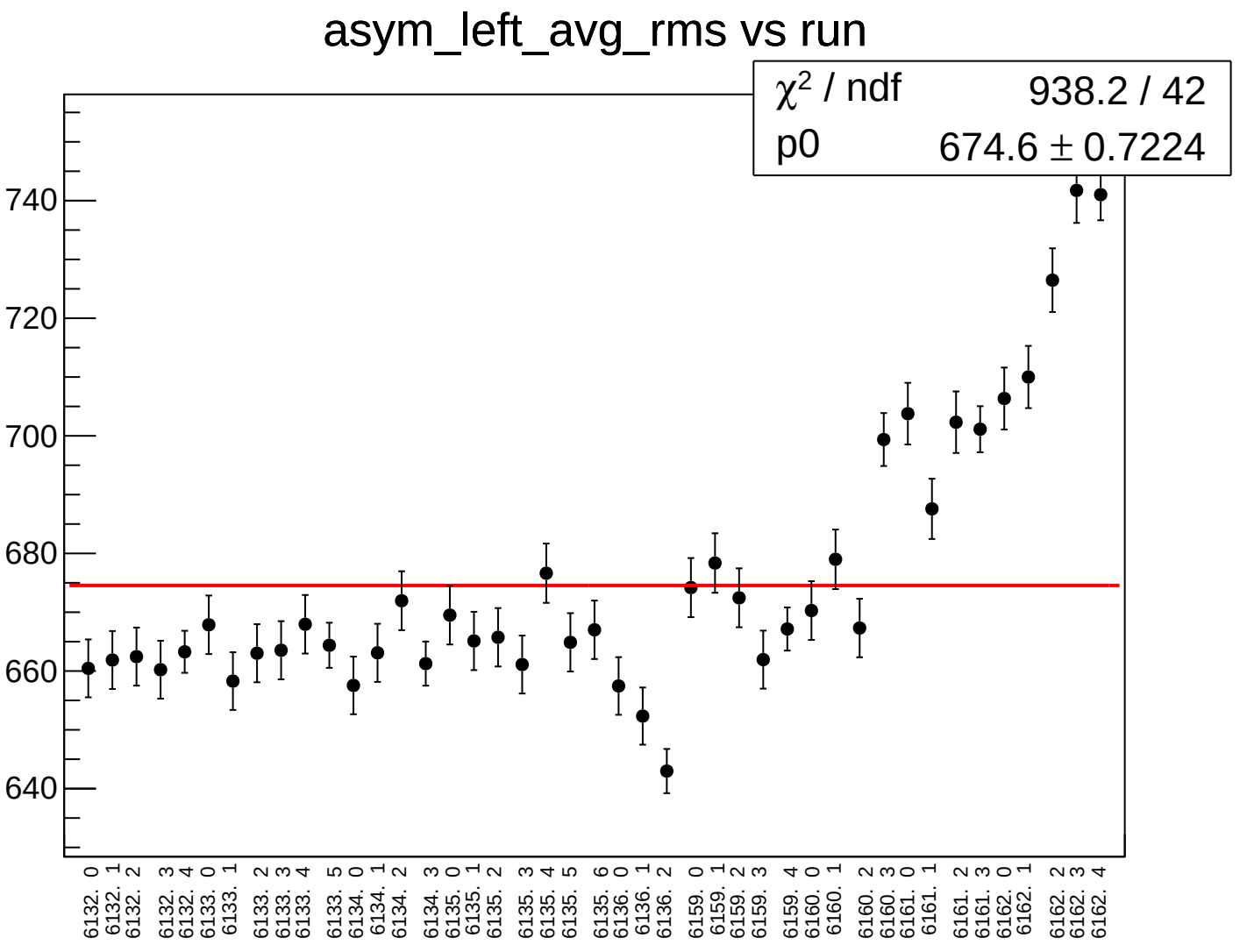

asym_left_avg_correction_mean vs run
χ² / ndf 35.36 / 42
p0 467.6 ± 567.2
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −1900
Std Dev 1917
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

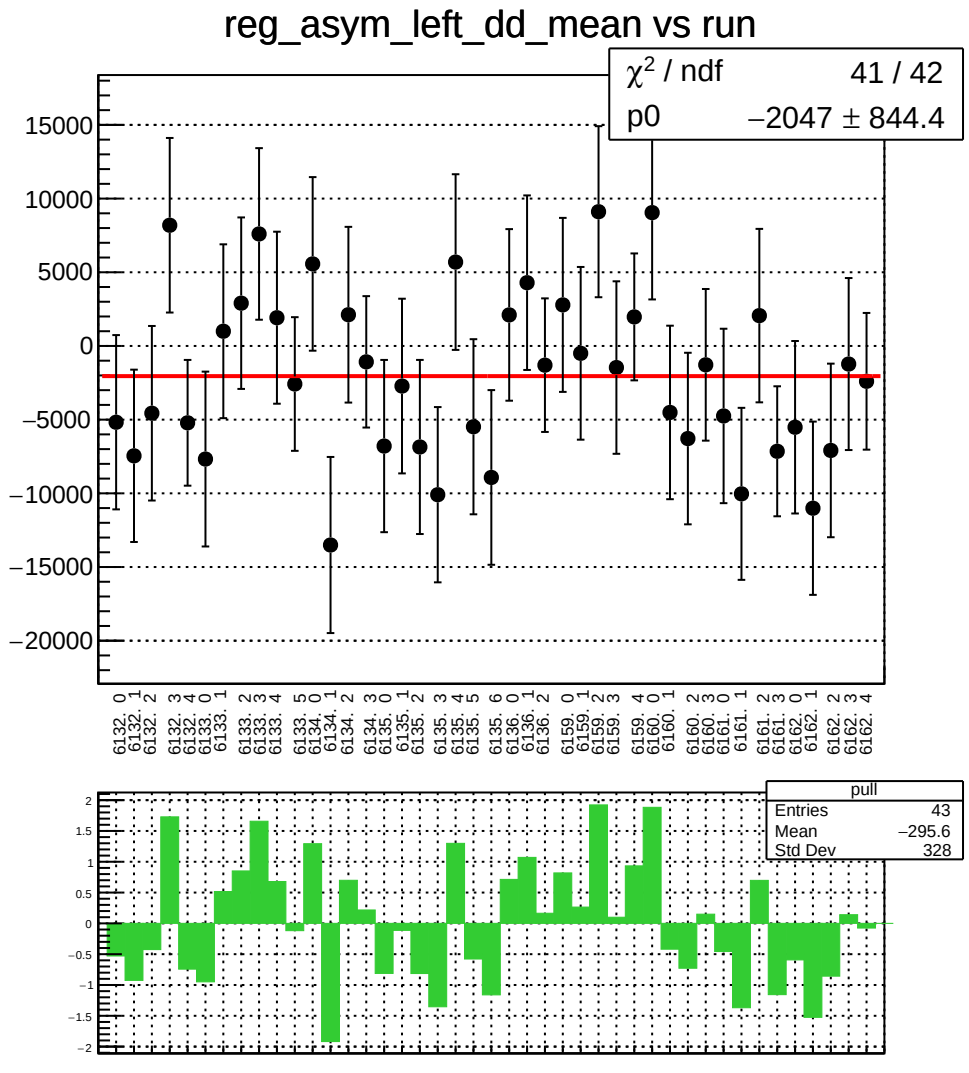

pull1D
Entries 43
Mean 0.001589
Std Dev 0.9068
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

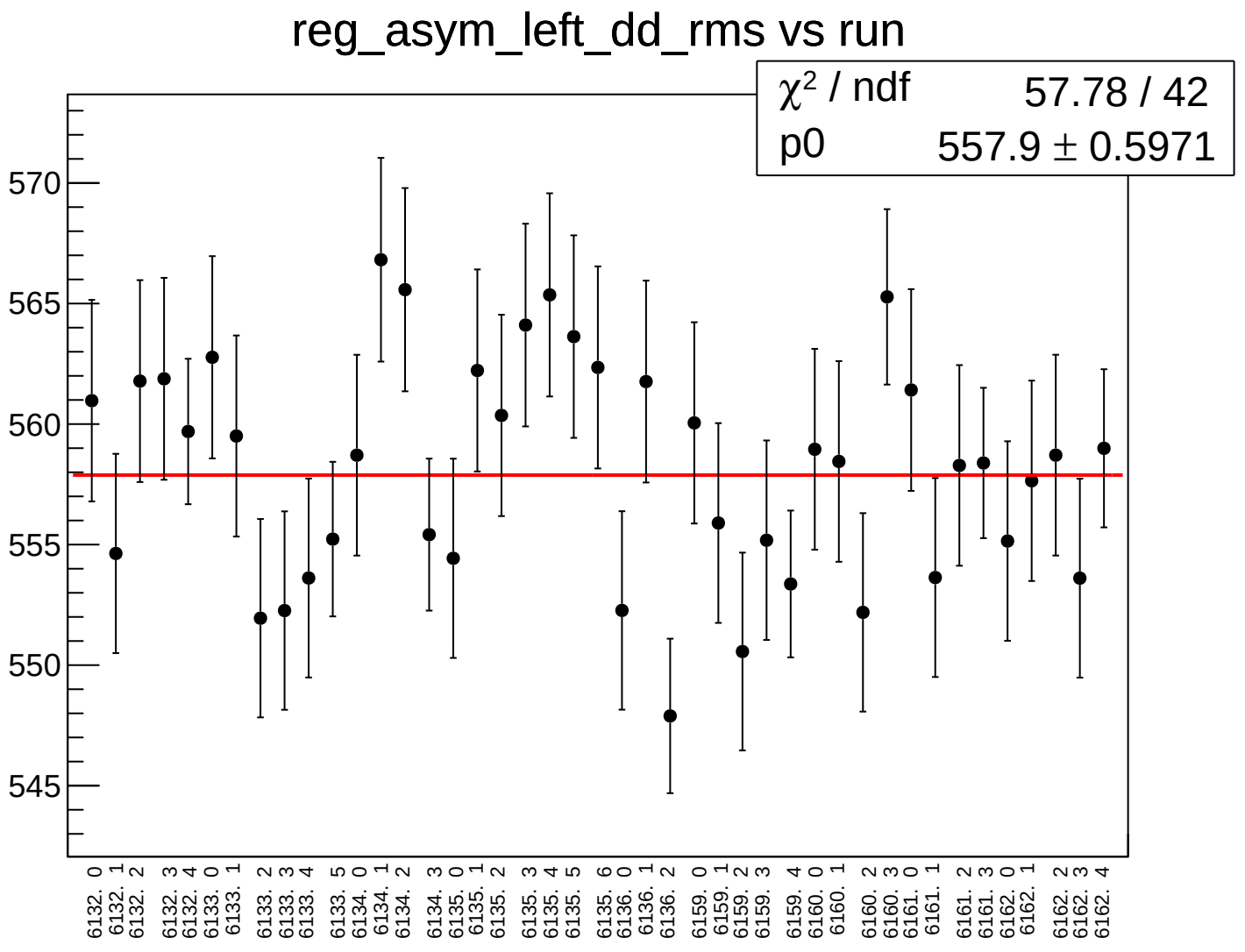

asym_left_avg_correction_rms vs run
χ² / ndf 7289 / 42
p0 373.1 ± 0.401
500
480
460
440
420
400
380
360
340
320
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

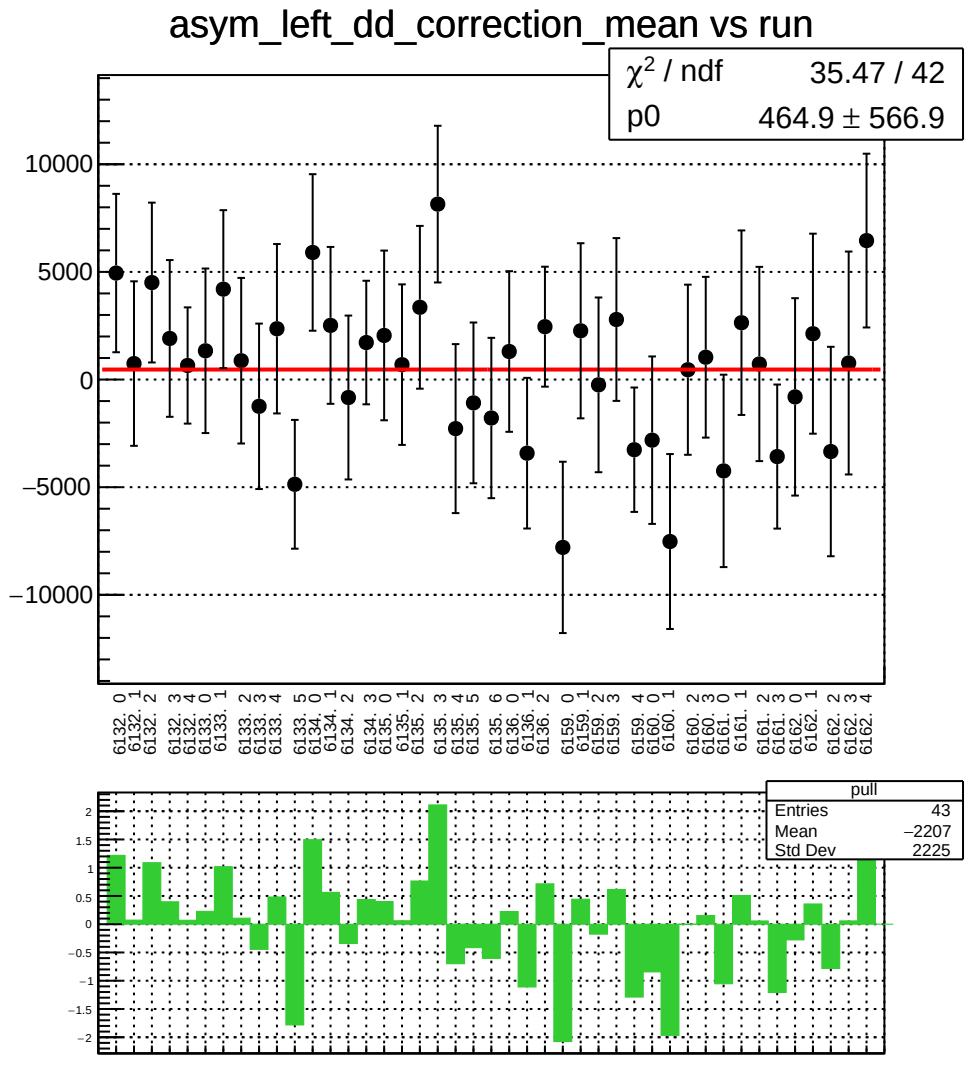

asym_left_avg_mean vs run
χ² / ndf 44.92 / 42
p0 −2491 ± 1022
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 59.15
Std Dev 238
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

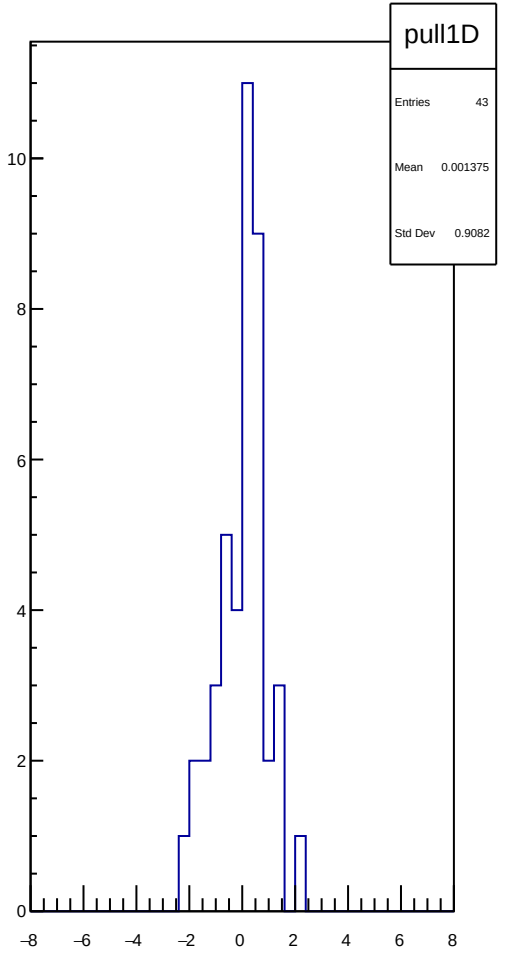

pull1D
Entries 43
Mean −0.0006201
Std Dev 1.022
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

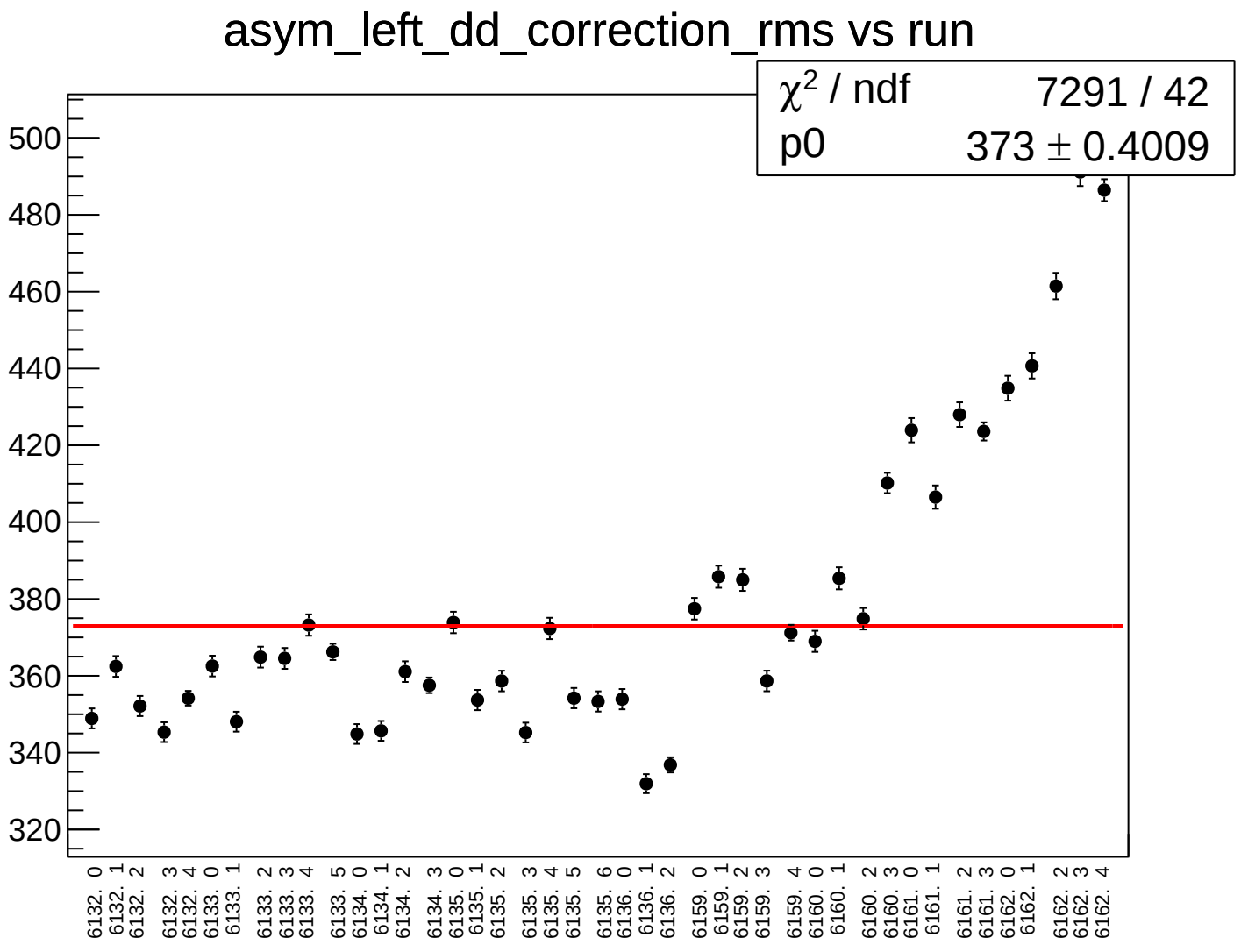

asym_left_avg_rms vs run
χ² / ndf 938.2 / 42
p0 674.6 ± 0.7224
740
720
700
680
660
640
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

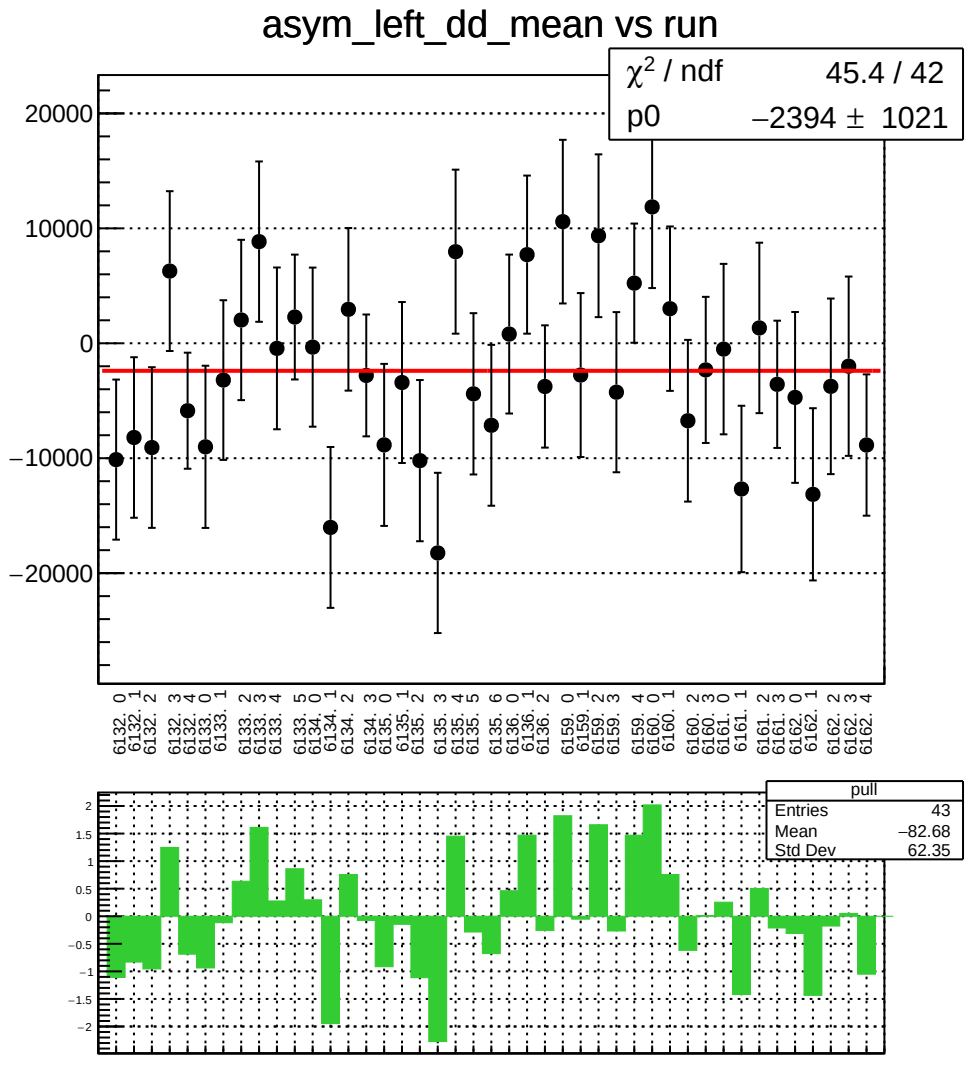

reg_asym_left_dd_mean vs run
χ² / ndf 41 / 42
p0 −2047 ± 844.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −295.6
Std Dev 328
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.004198
Std Dev 0.9765
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

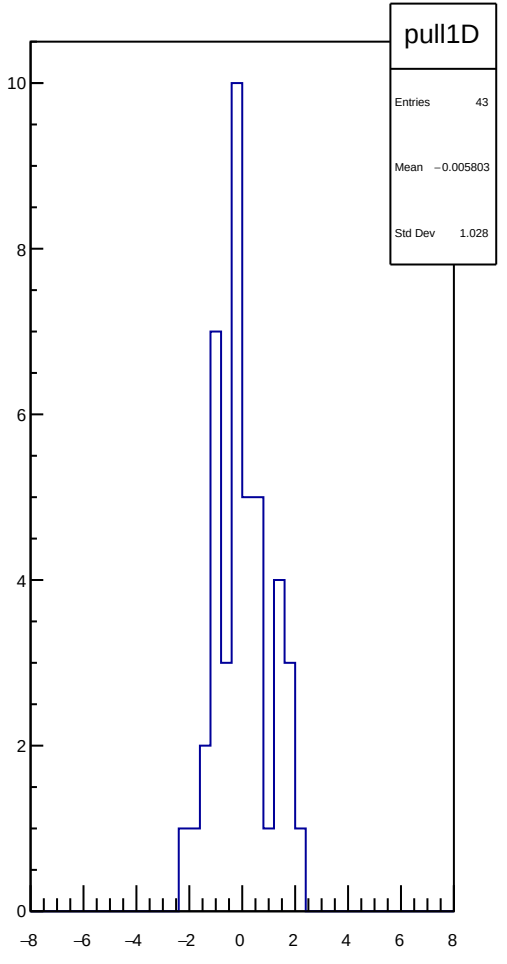

reg_asym_left_dd_rms vs run
χ² / ndf 57.78 / 42
p0 557.9 ± 0.5971
570
565
560
555
550
545
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

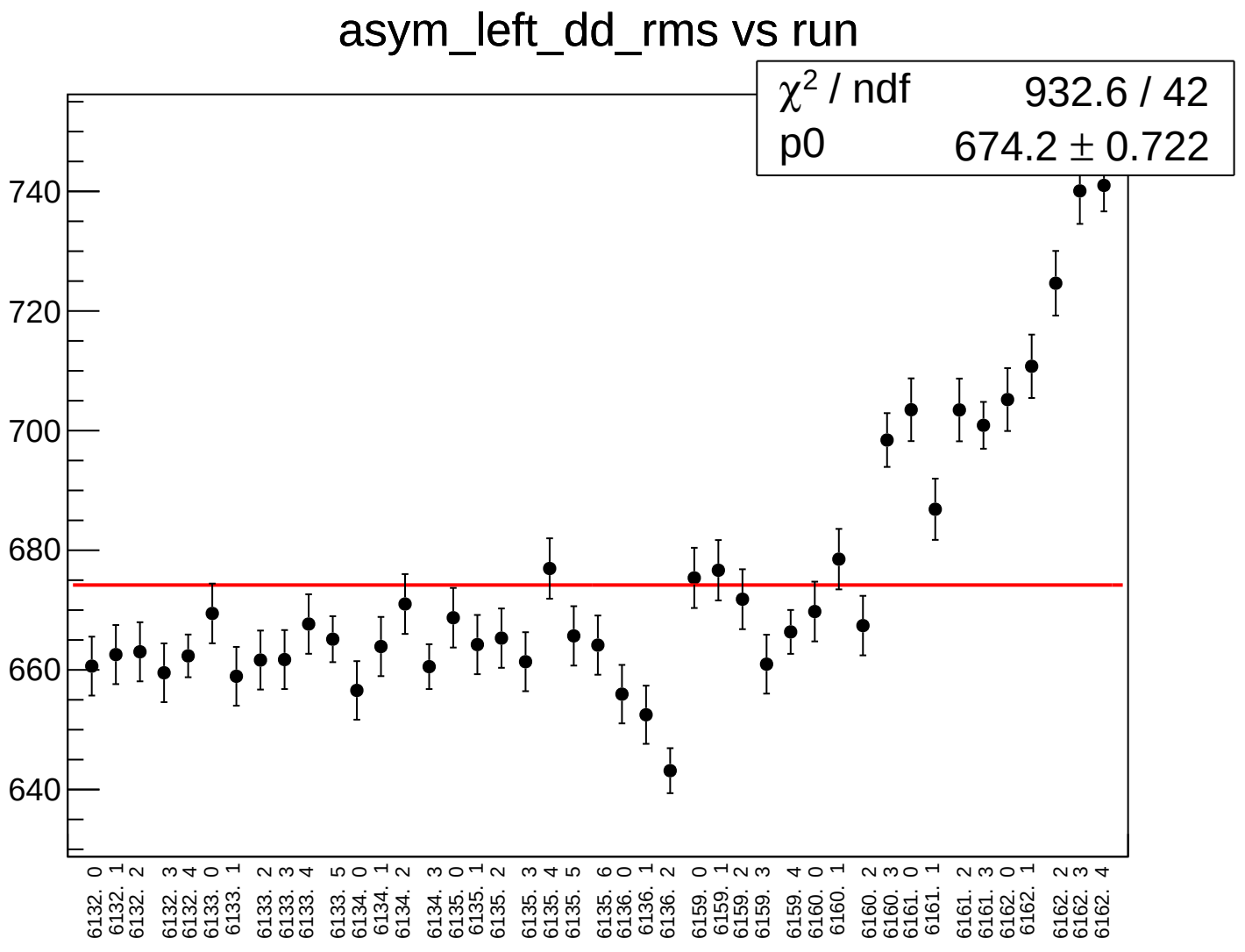

asym_left_dd_correction_mean vs run
χ² / ndf 35.47 / 42
p0 464.9 ± 566.9
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −2207
Std Dev 2225
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

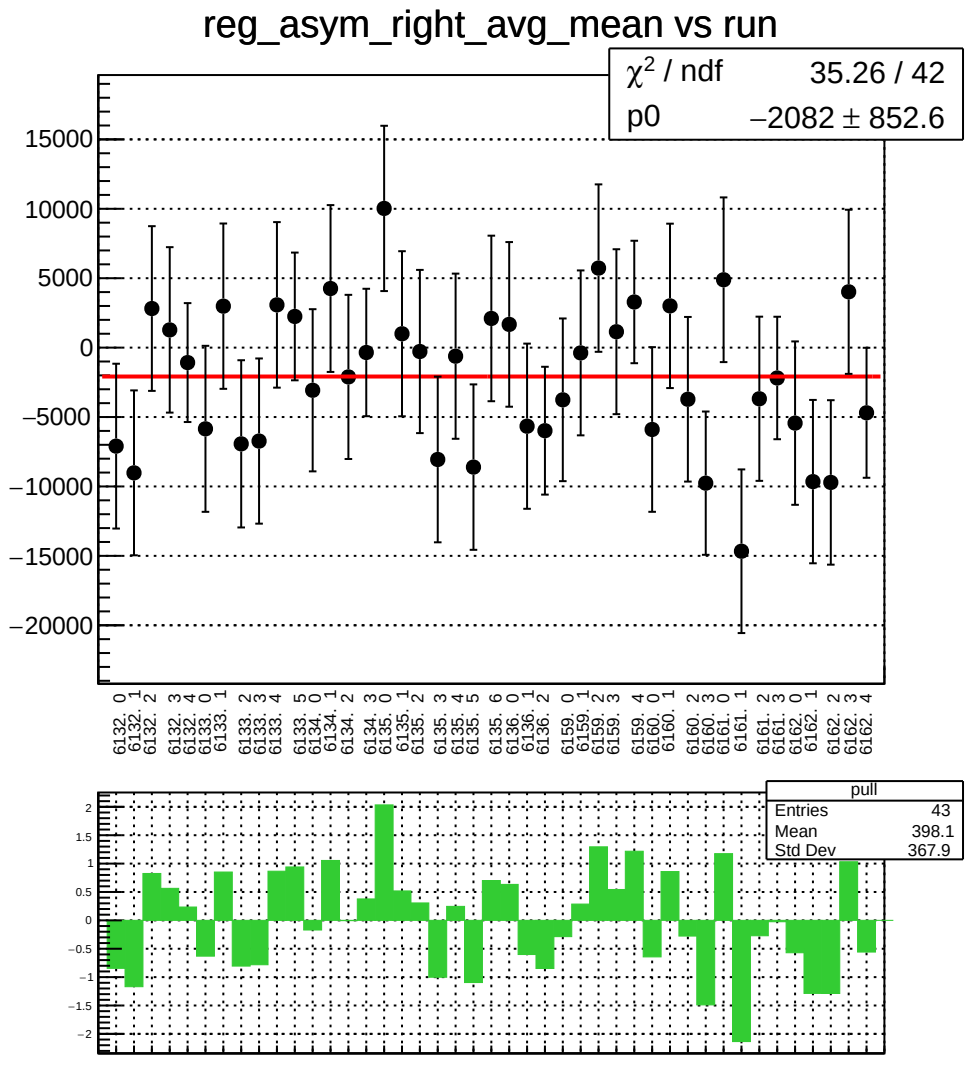

pull1D
Entries 43
Mean 0.001375
Std Dev 0.9082
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

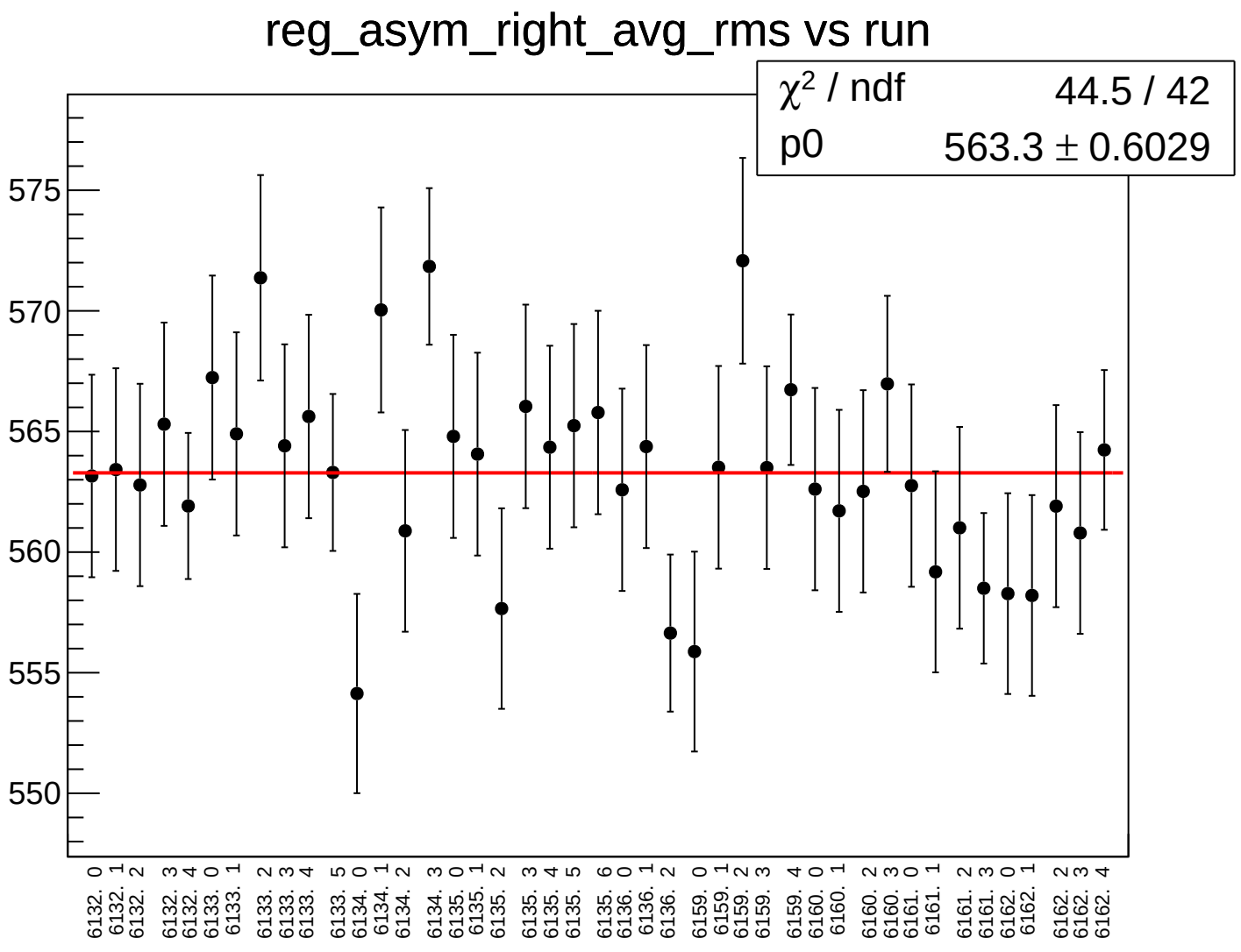

asym_left_dd_correction_rms vs run
χ² / ndf 7291 / 42
p0 373 ± 0.4009
500
480
460
440
420
400
380
360
340
320
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

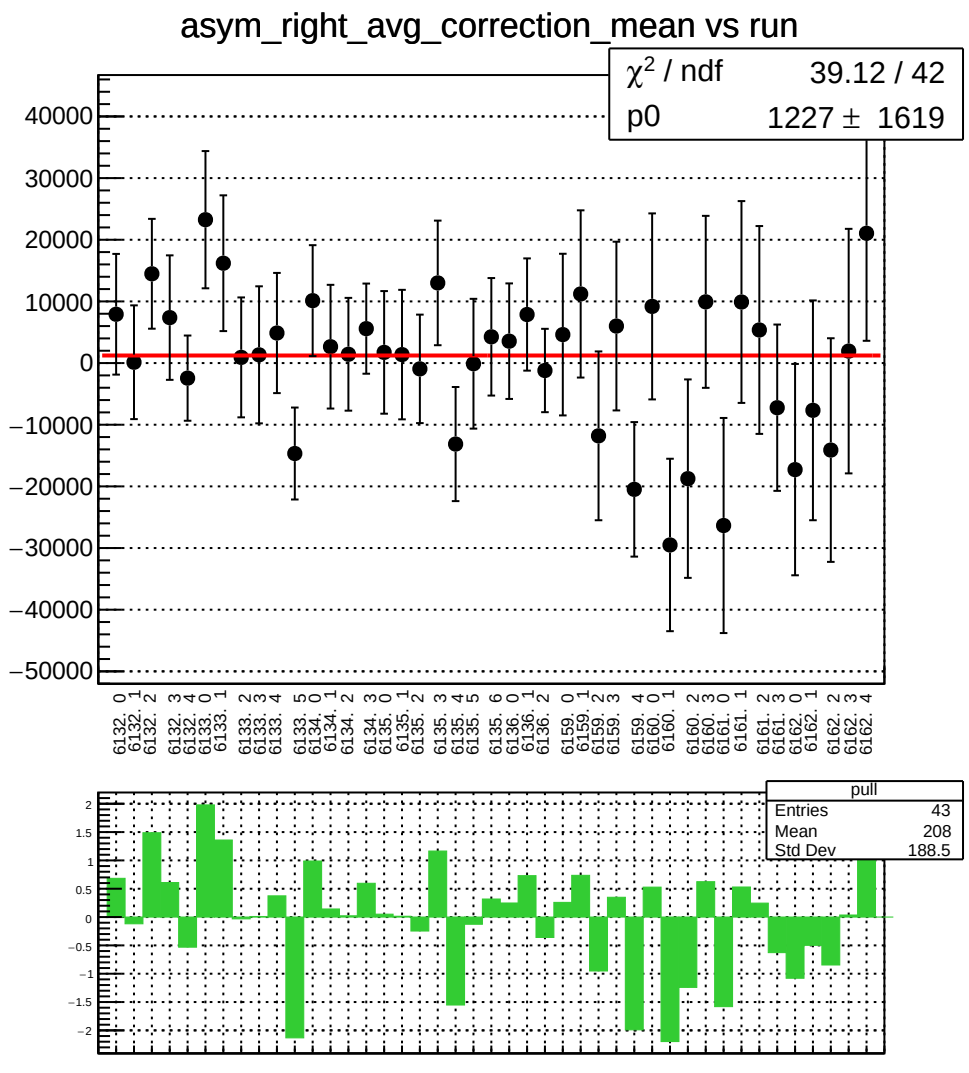

asym_left_dd_mean vs run
χ² / ndf 45.4 / 42
p0 −2394 ± 1021
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −82.68
Std Dev 62.35
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

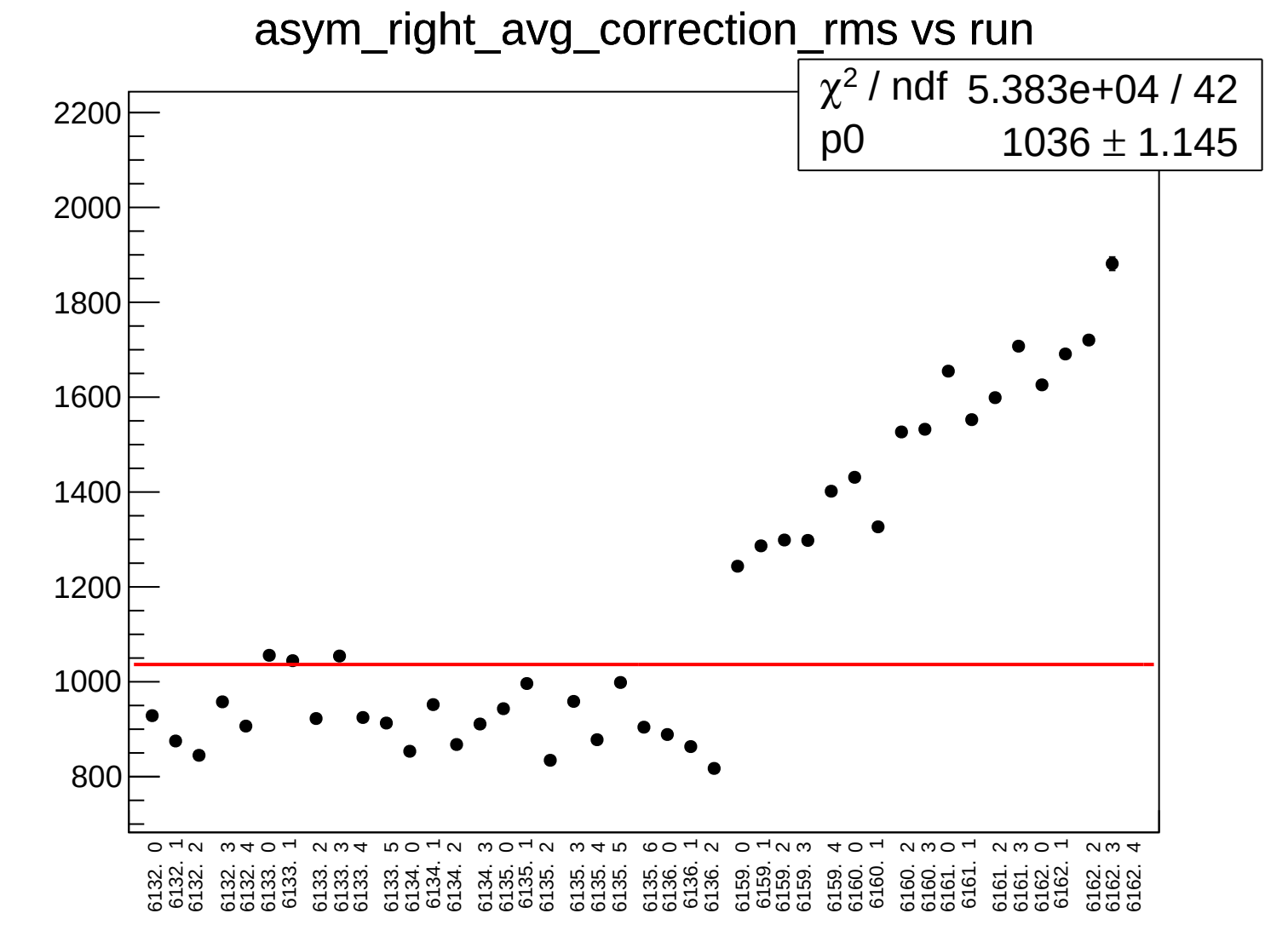

pull1D
Entries 43
Mean −0.005803
Std Dev 1.028
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

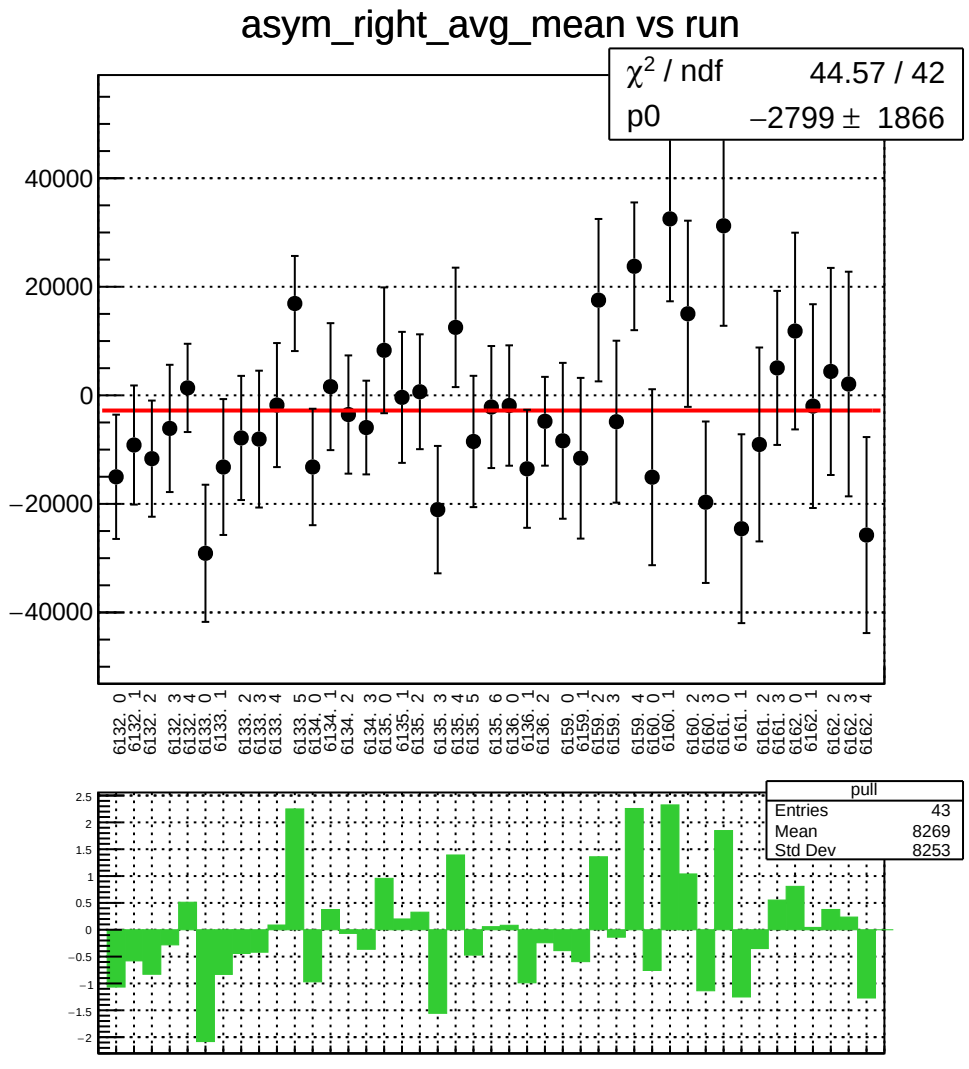

asym_left_dd_rms vs run
χ² / ndf 932.6 / 42
p0 674.2 ± 0.722
740
720
700
680
660
640
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

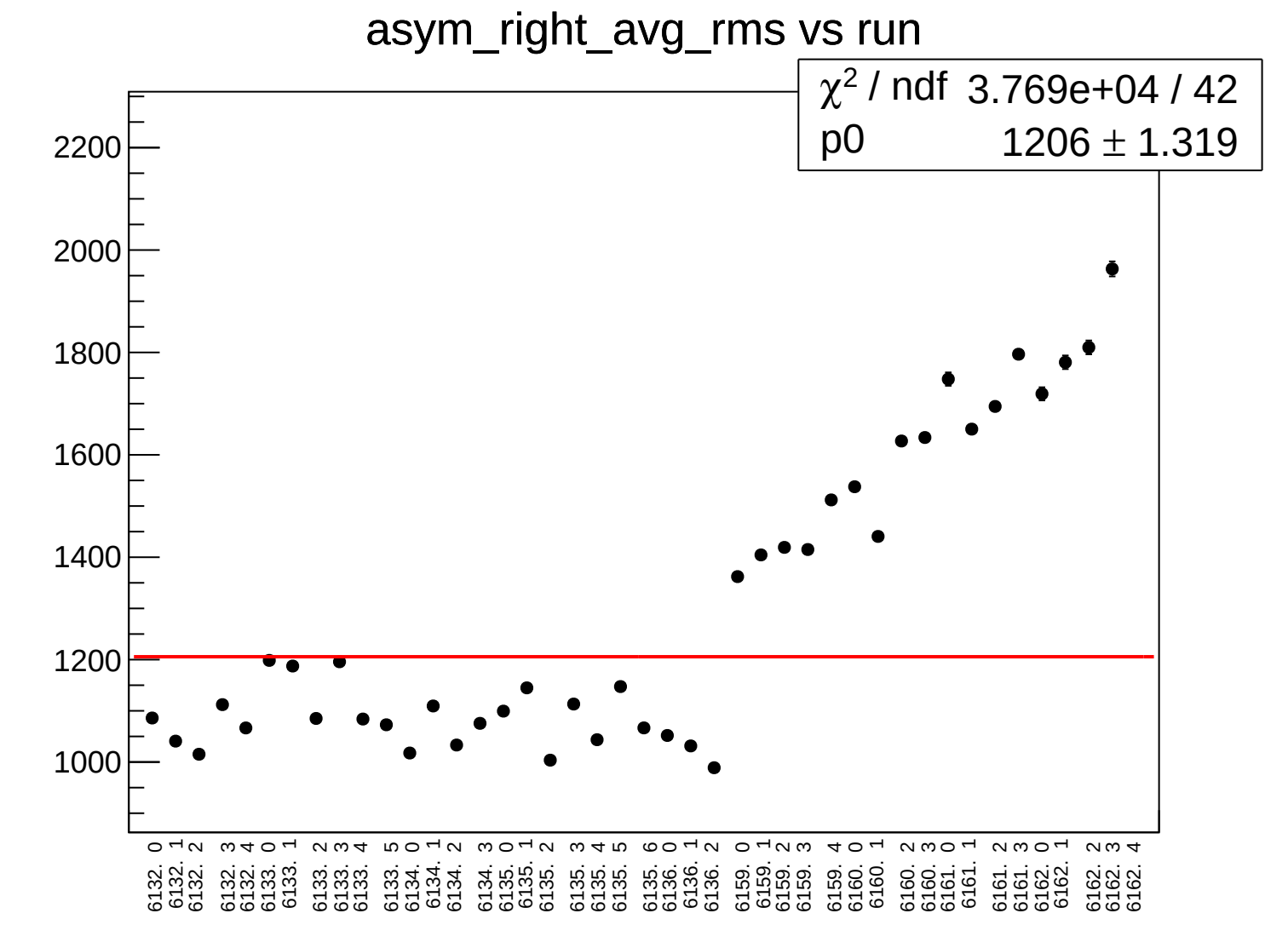

reg_asym_right_avg_mean vs run
χ² / ndf 35.26 / 42
p0 −2082 ± 852.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 398.1
Std Dev 367.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.004976
Std Dev 0.9055
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

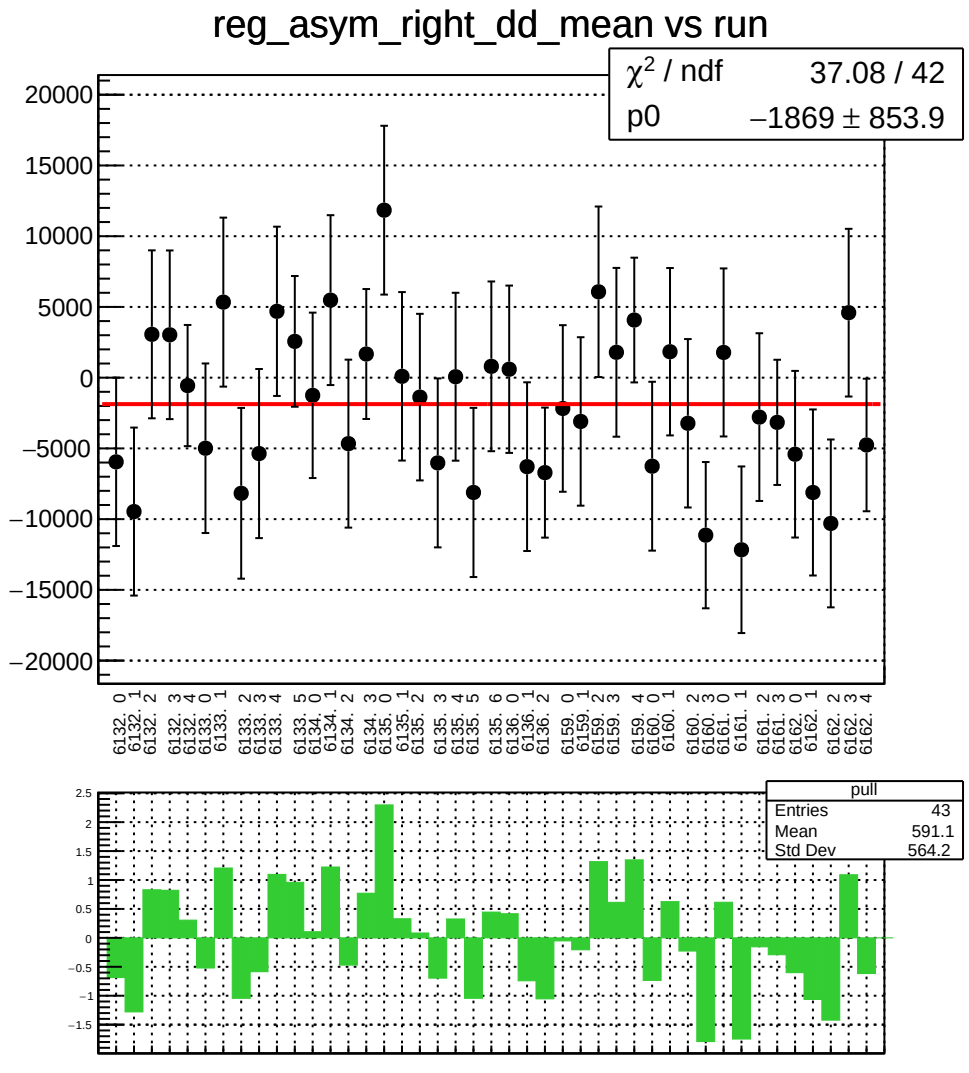

reg_asym_right_avg_rms vs run
χ² / ndf 44.5 / 42
p0 563.3 ± 0.6029
575
570
565
560
555
550
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

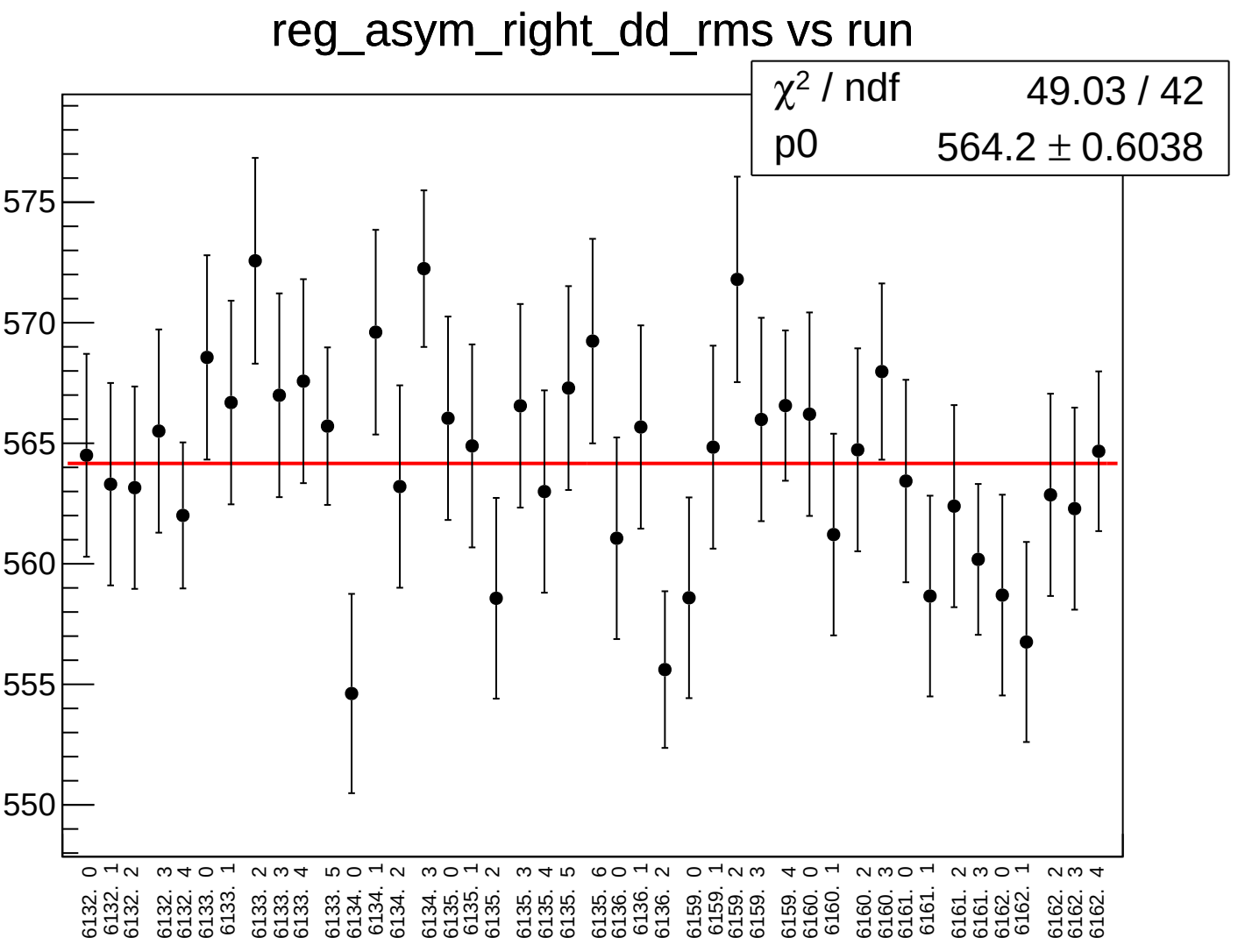

asym_right_avg_correction_mean vs run
χ² / ndf 39.12 / 42
p0 1227 ± 1619
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 208
Std Dev 188.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.02066
Std Dev 0.9536
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

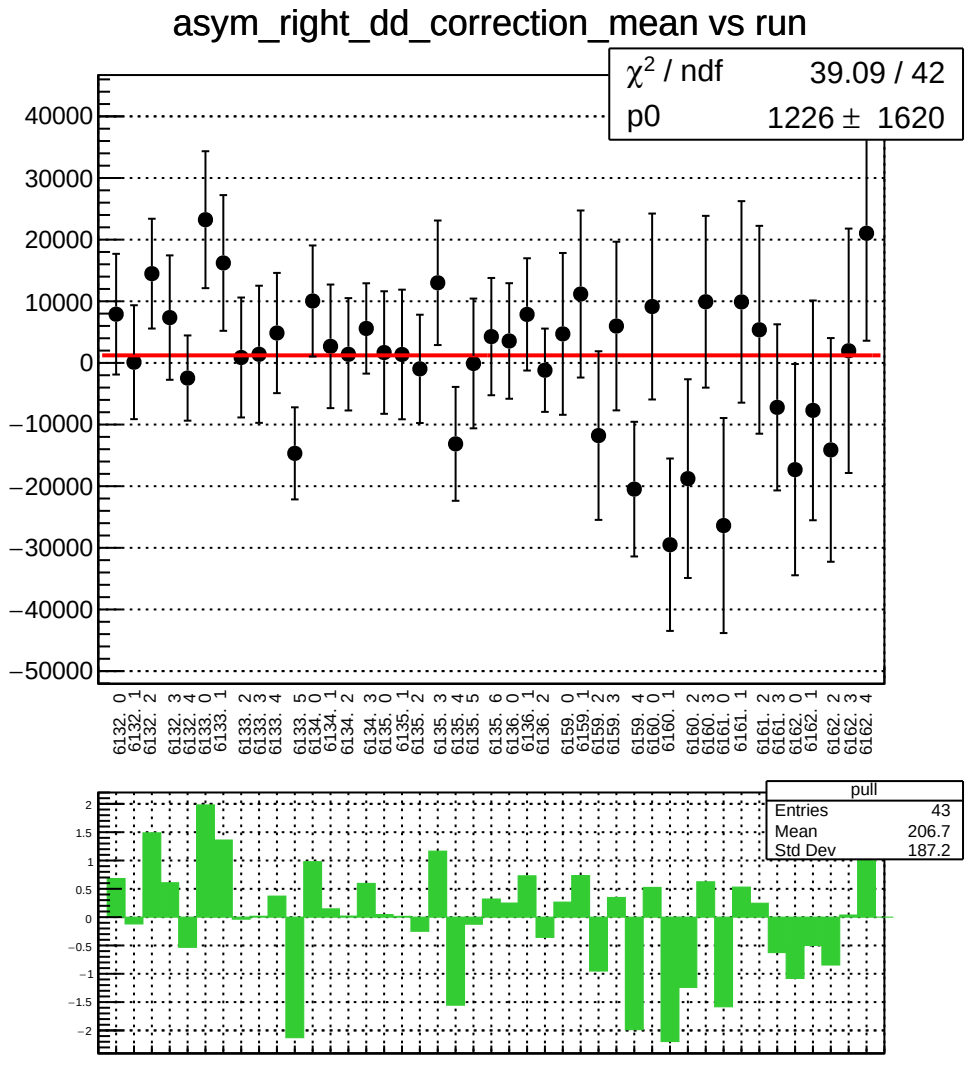

asym_right_avg_correction_rms vs run
χ² / ndf 5.383e+04 / 42
p0 1036 ± 1.145
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

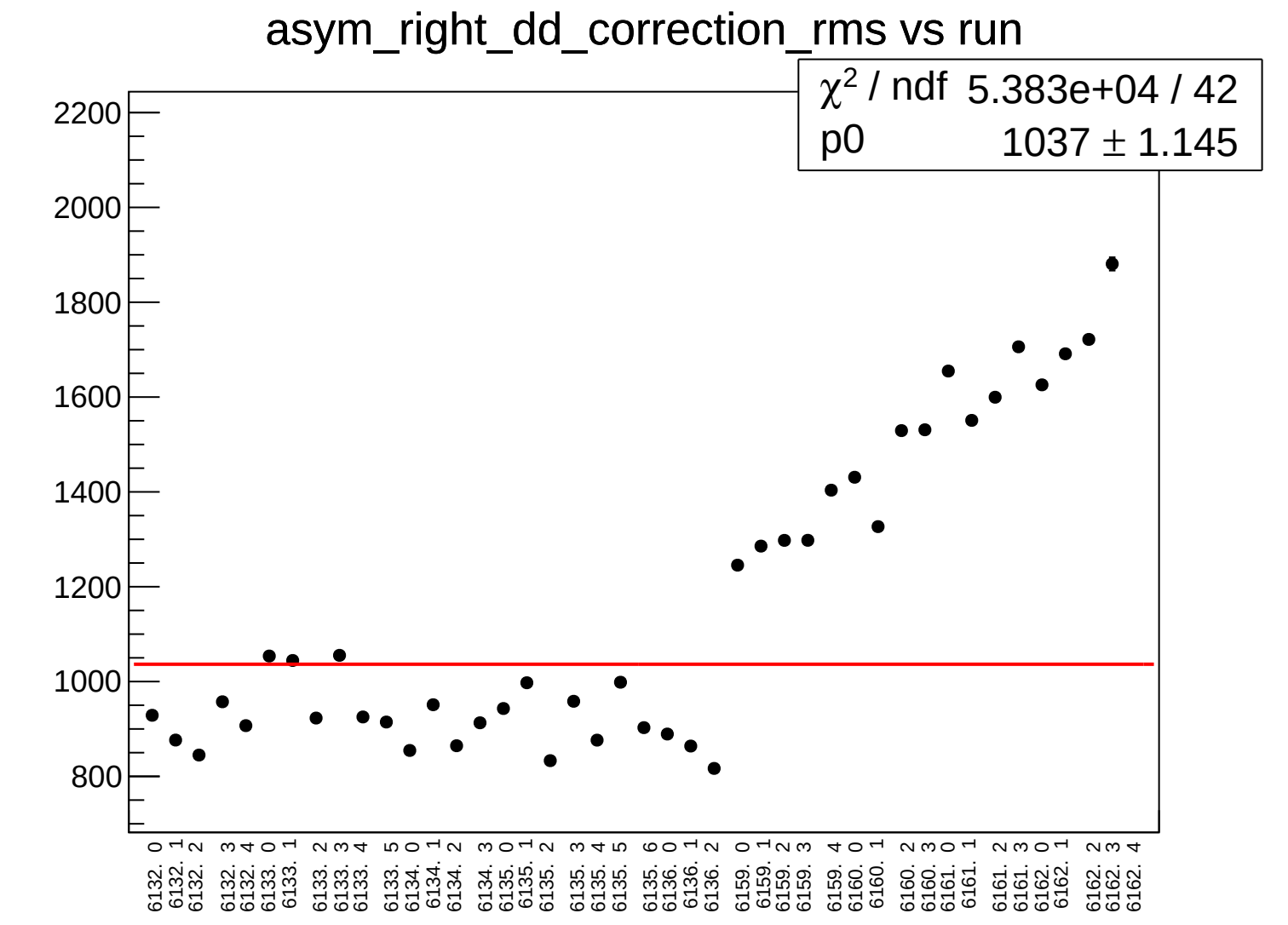

asym_right_avg_mean vs run
χ² / ndf 44.57 / 42
p0 −2799 ± 1866
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 8269
Std Dev 8253
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.0003483
Std Dev 1.018
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

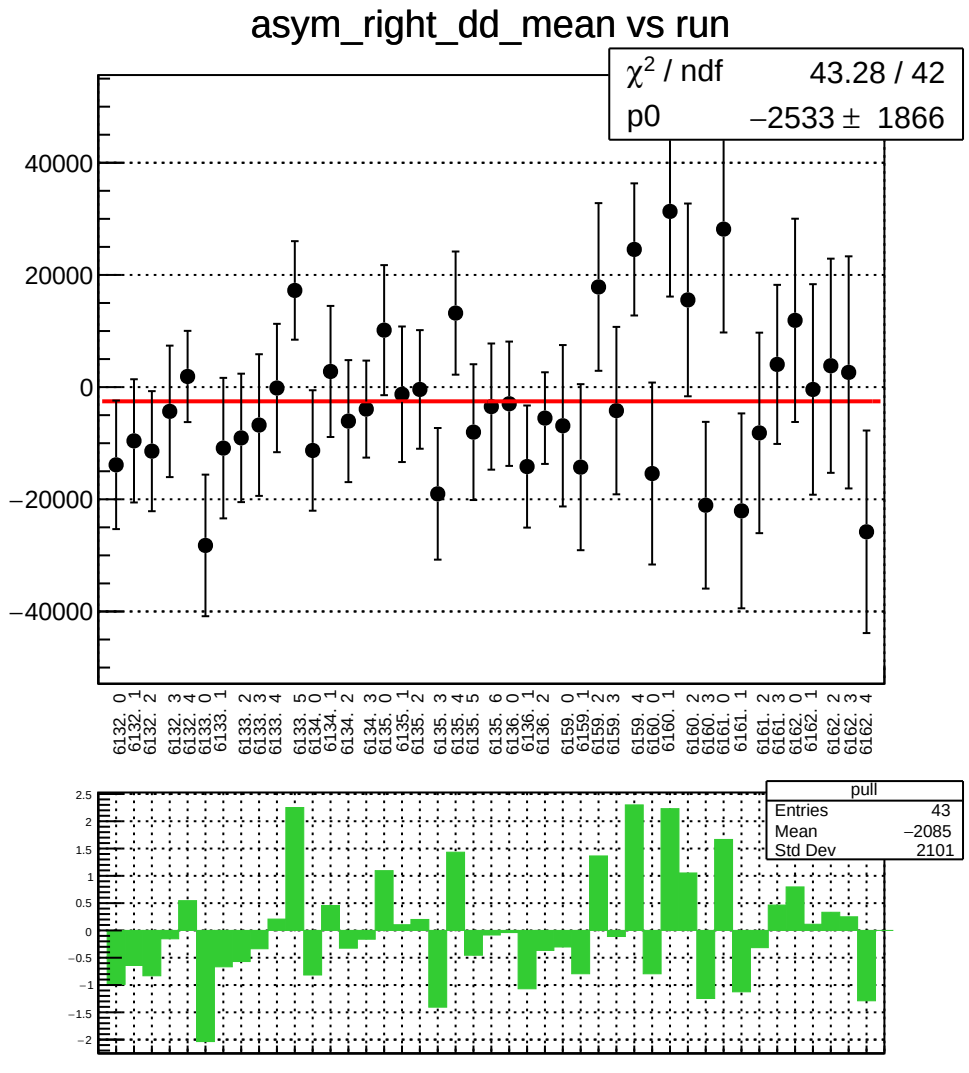

asym_right_avg_rms vs run
χ² / ndf 3.769e+04 / 42
p0 1206 ± 1.319
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

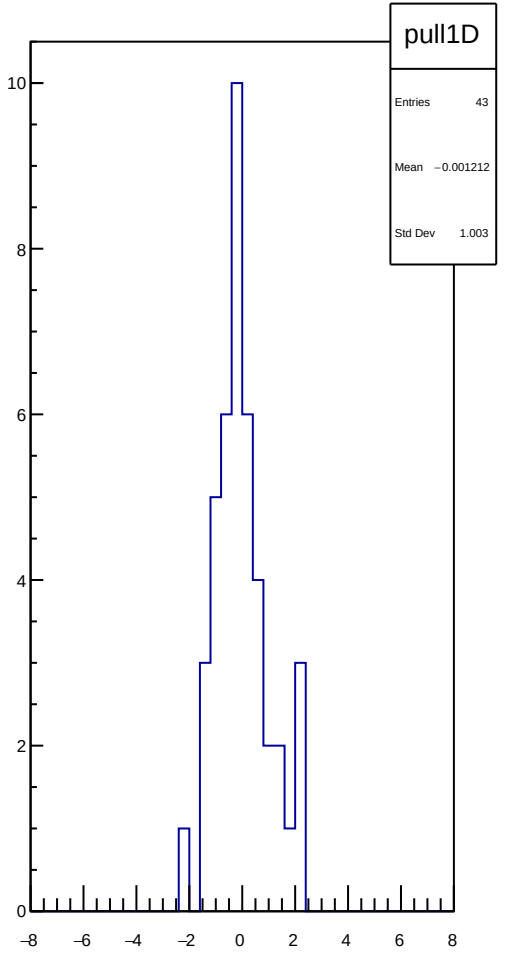

reg_asym_right_dd_mean vs run
χ² / ndf 37.08 / 42
p0 −1869 ± 853.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 591.1
Std Dev 564.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.004569
Std Dev 0.9286
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

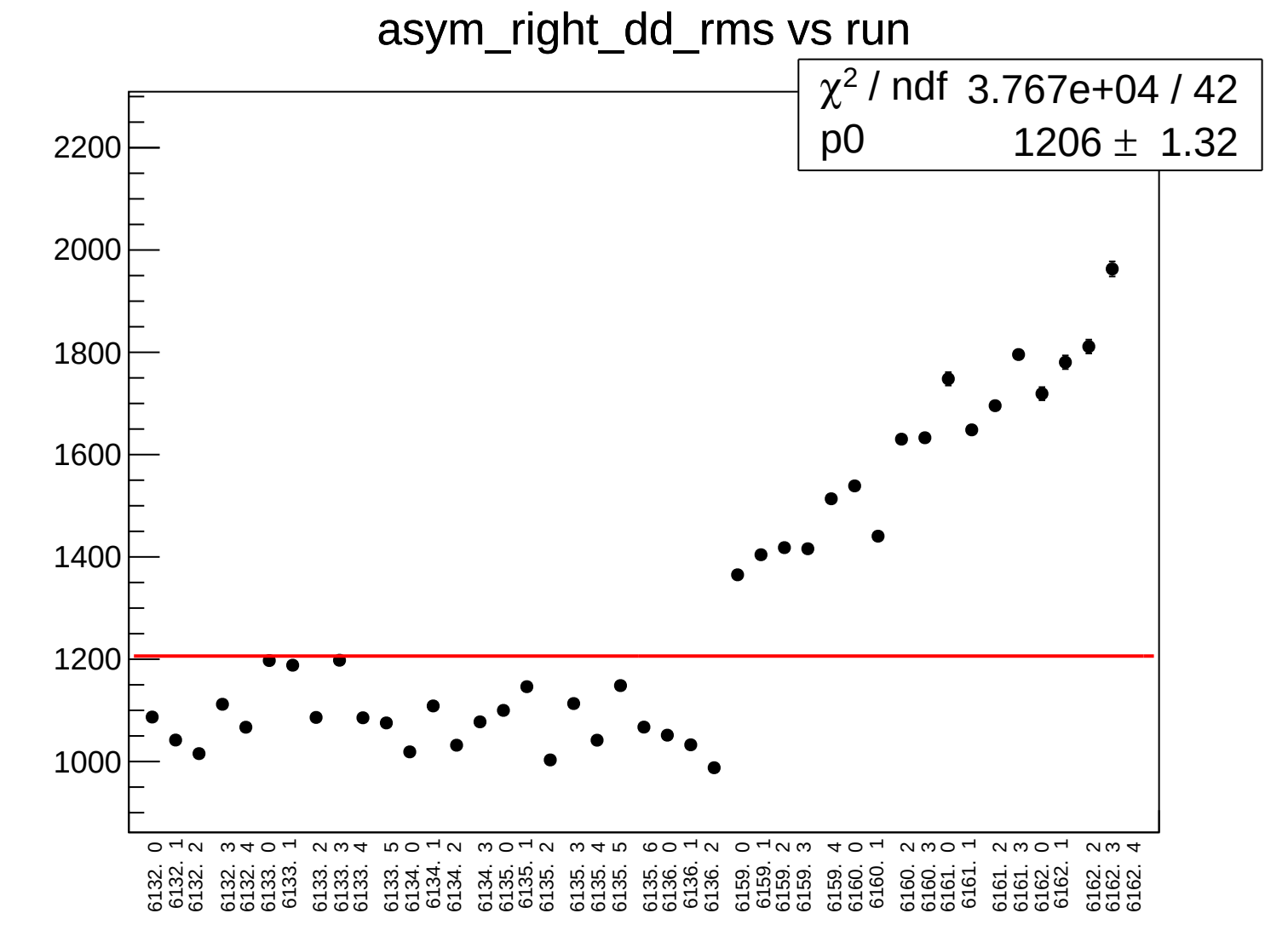

reg_asym_right_dd_rms vs run
χ² / ndf 49.03 / 42
p0 564.2 ± 0.6038
575
570
565
560
555
550
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

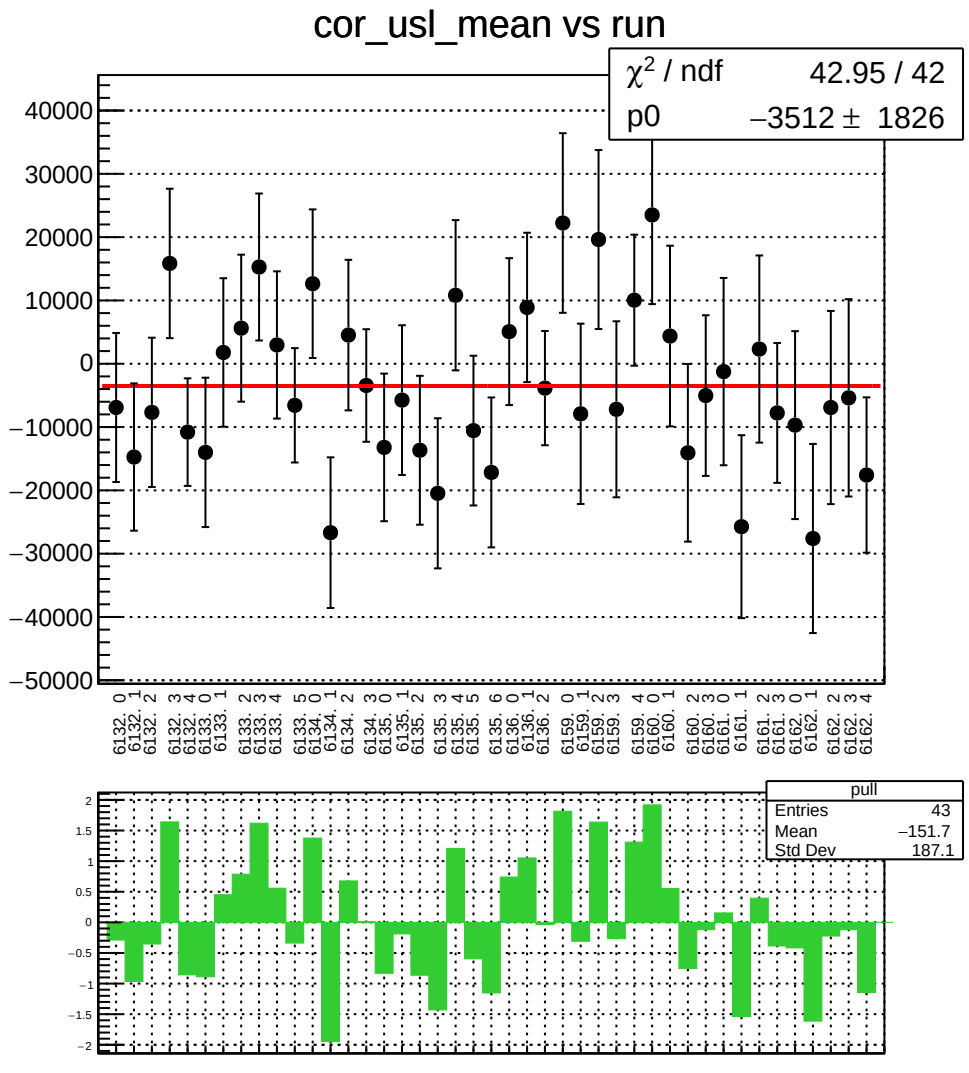

asym_right_dd_correction_mean vs run
χ² / ndf 39.09 / 42
p0 1226 ± 1620
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 206.7
Std Dev 187.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.02079
Std Dev 0.9532
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

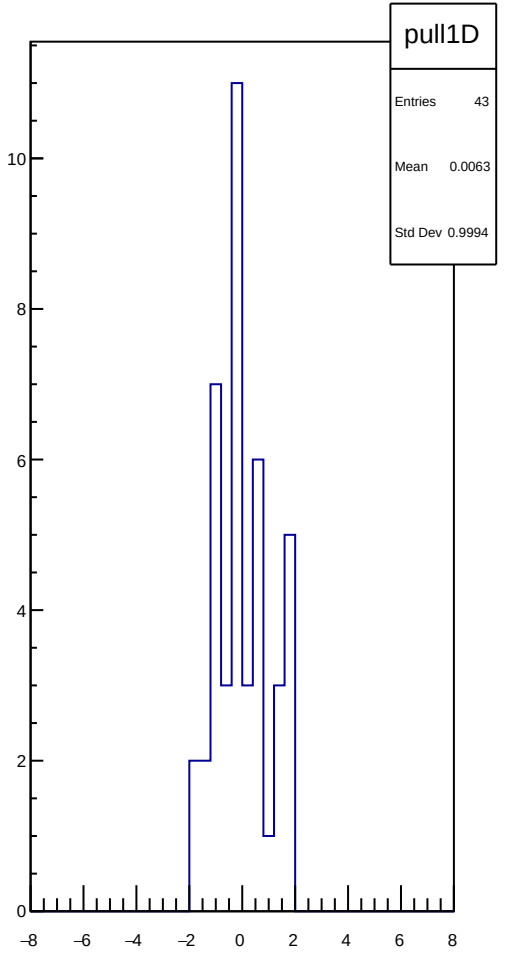

asym_right_dd_correction_rms vs run
χ² / ndf 5.383e+04 / 42
p0 1037 ± 1.145
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

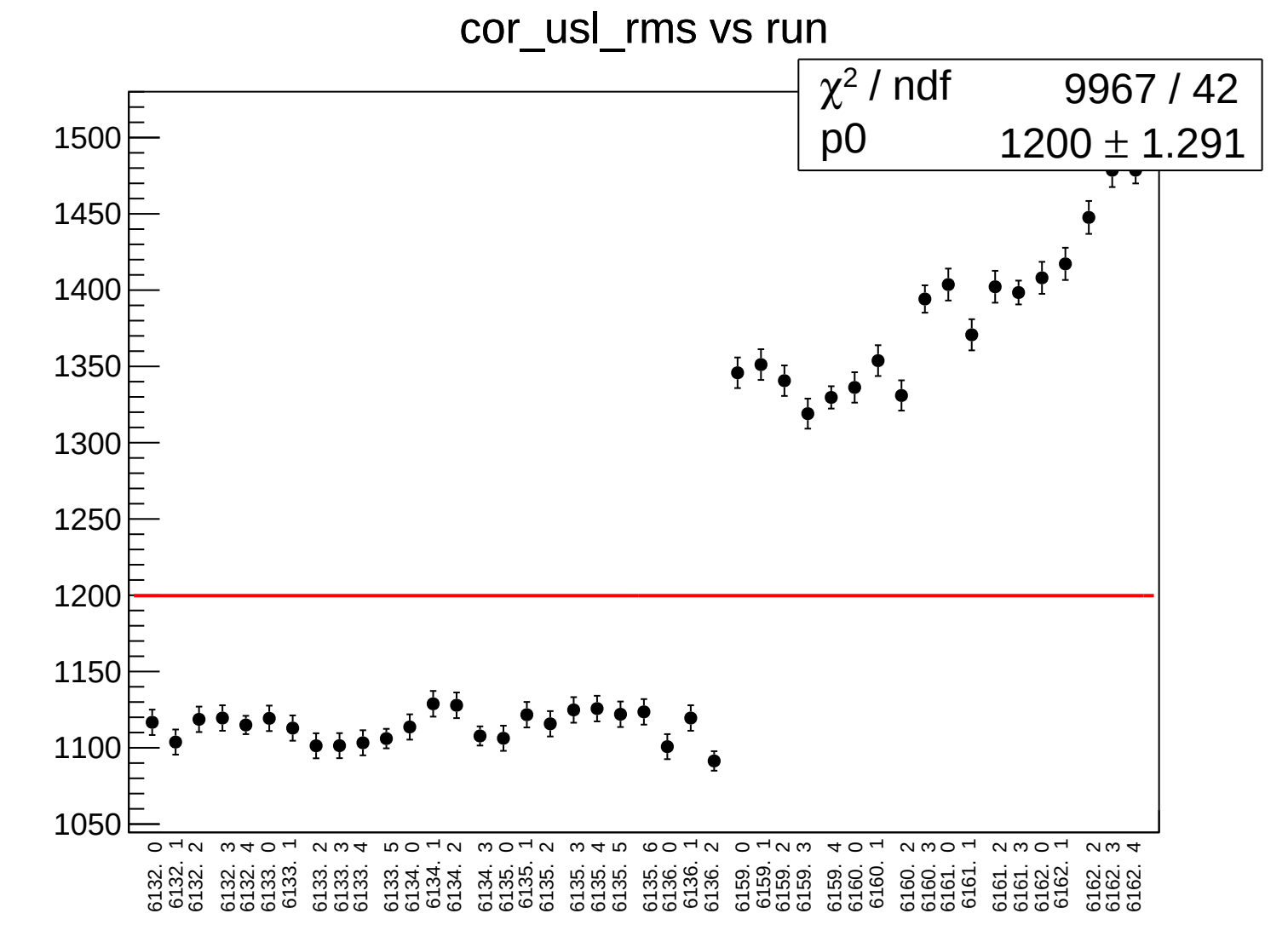

asym_right_dd_mean vs run
χ² / ndf 43.28 / 42
p0 −2533 ± 1866
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −2085
Std Dev 2101
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

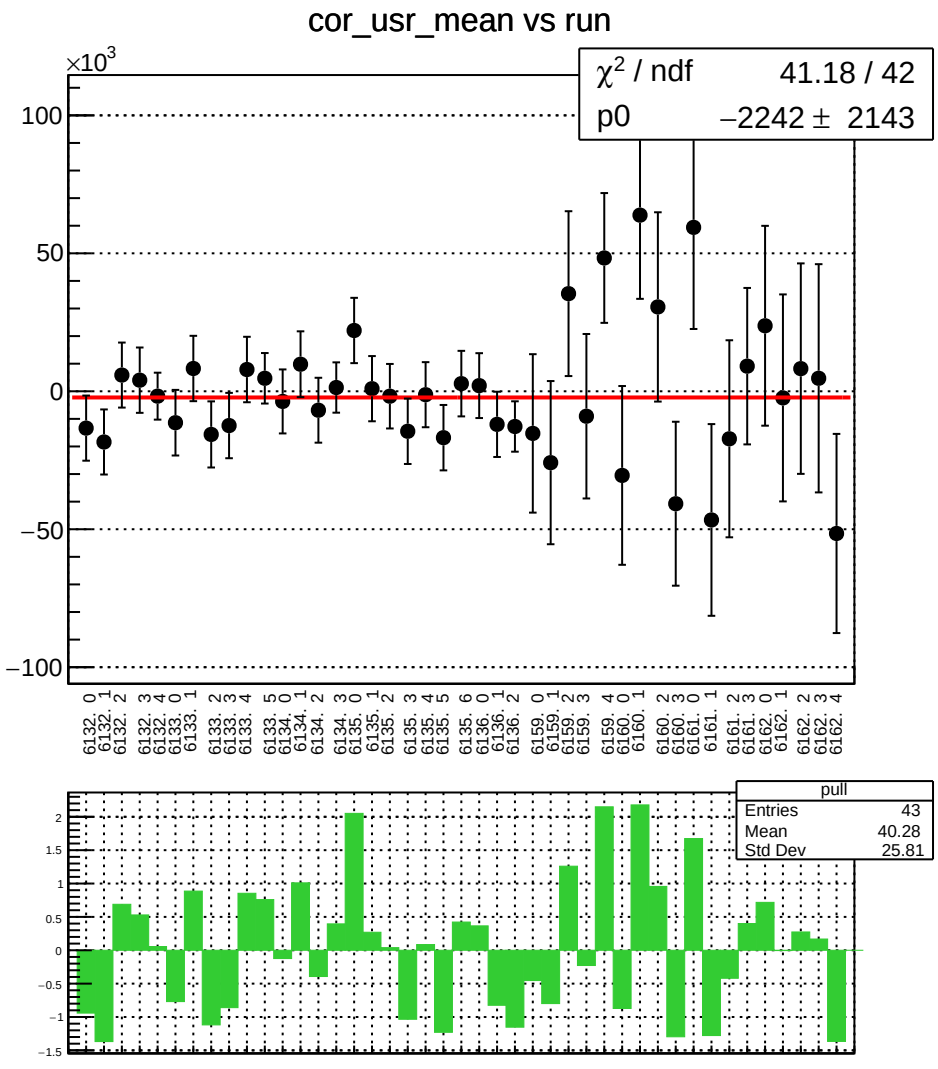

pull1D
Entries 43
Mean −0.001212
Std Dev 1.003
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

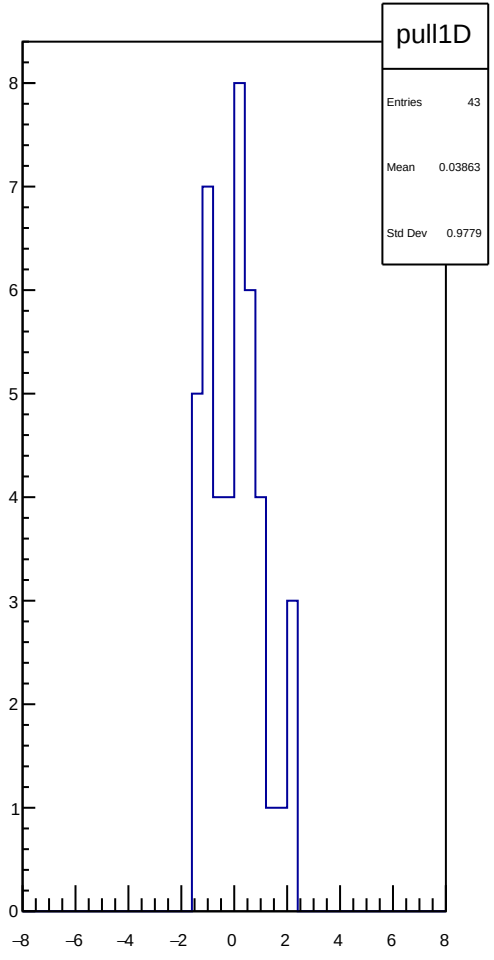

asym_right_dd_rms vs run
χ² / ndf 3.767e+04 / 42
p0 1206 ± 1.32
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

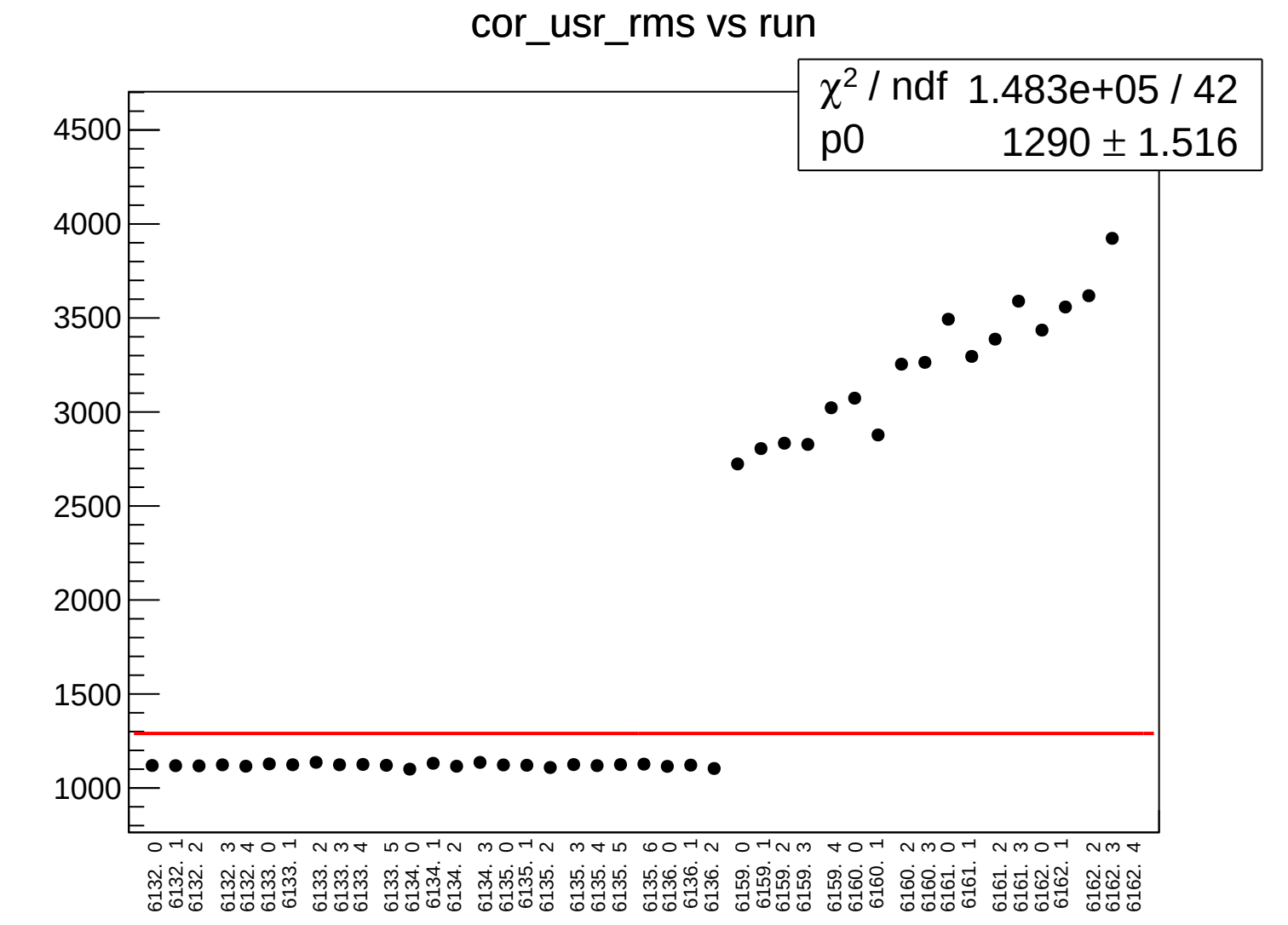

cor_usl_mean vs run
χ² / ndf 42.95 / 42
p0 −3512 ± 1826
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −151.7
Std Dev 187.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

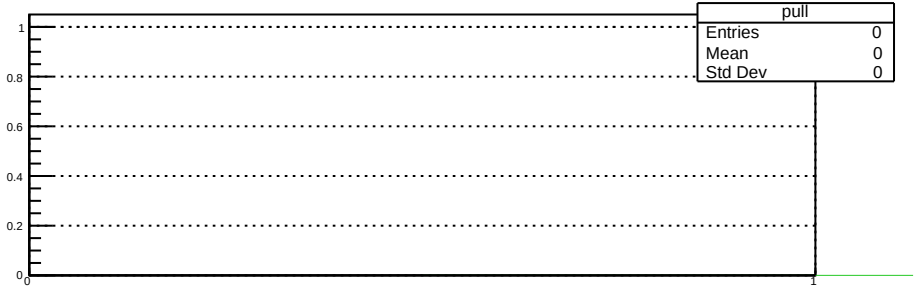

pull1D
Entries 43
Mean 0.0063
Std Dev 0.9994
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

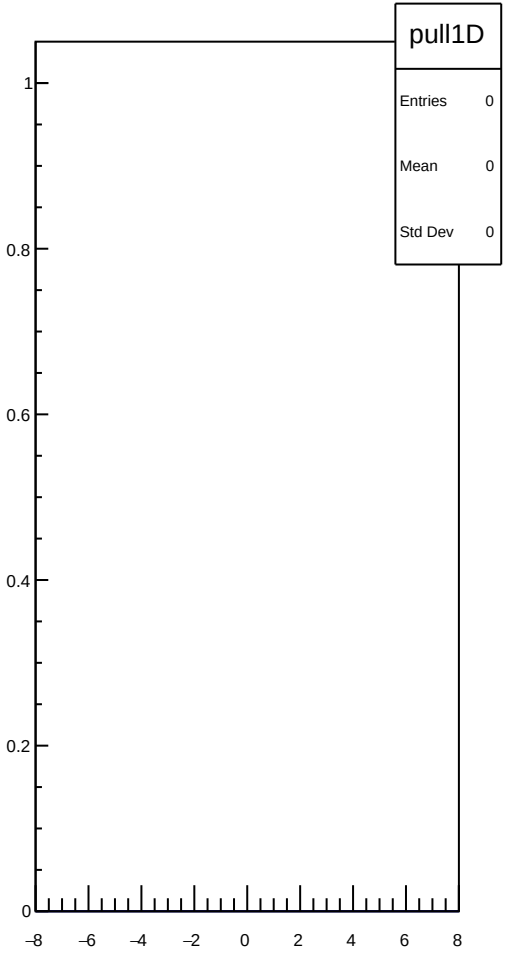

cor_usl_rms vs run
χ² / ndf 9967 / 42
p0 1200 ± 1.291
1500
1450
1400
1350
1300
1250
1200
1150
1100
1050
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

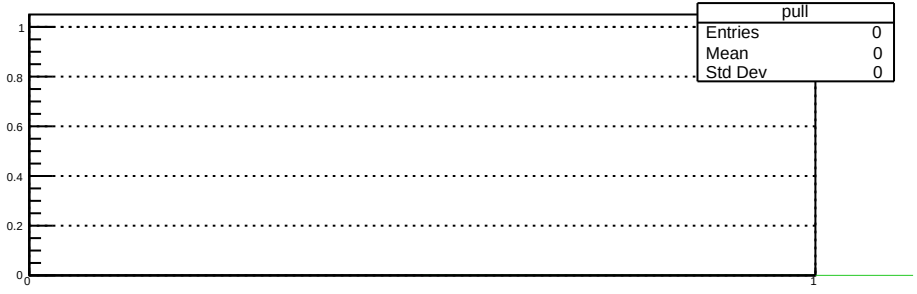

cor_usr_mean vs run
×10^3
χ² / ndf 41.18 / 42
p0 −2242 ± 2143
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 40.28
Std Dev 25.81
2
1.5
1
0.5
0
−0.5
−1
−1.5

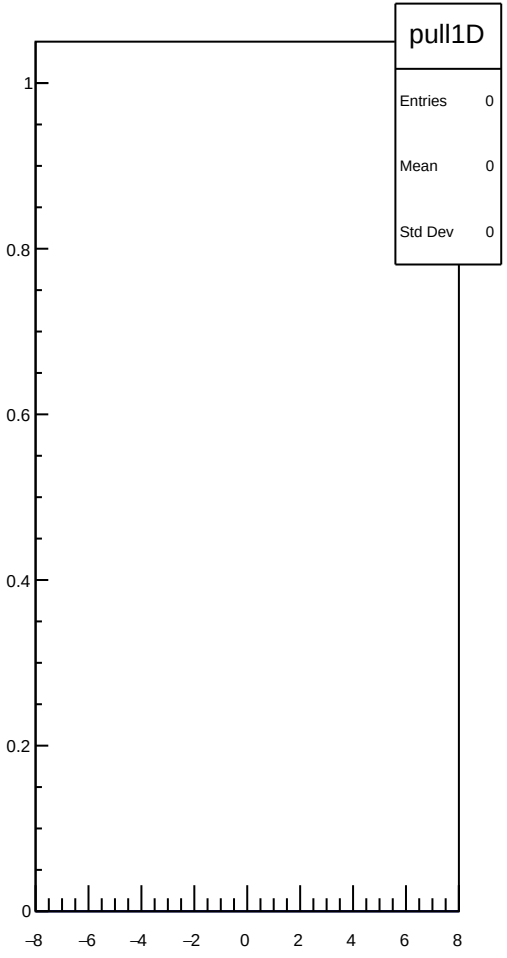

pull1D
Entries 43
Mean 0.03863
Std Dev 0.9779
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

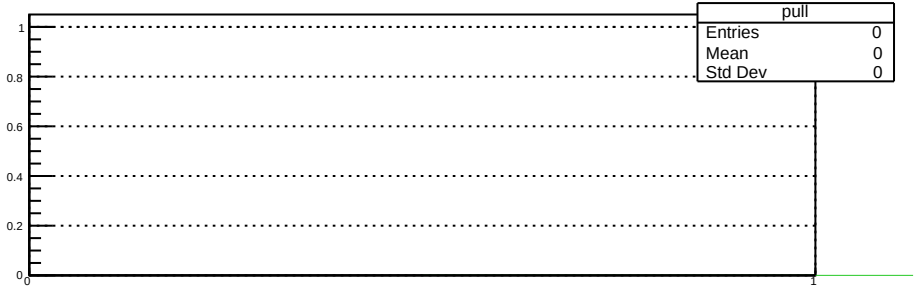

cor_usr_rms vs run
χ² / ndf 1.483e+05 / 42
p0 1290 ± 1.516
4500
4000
3500
3000
2500
2000
1500
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

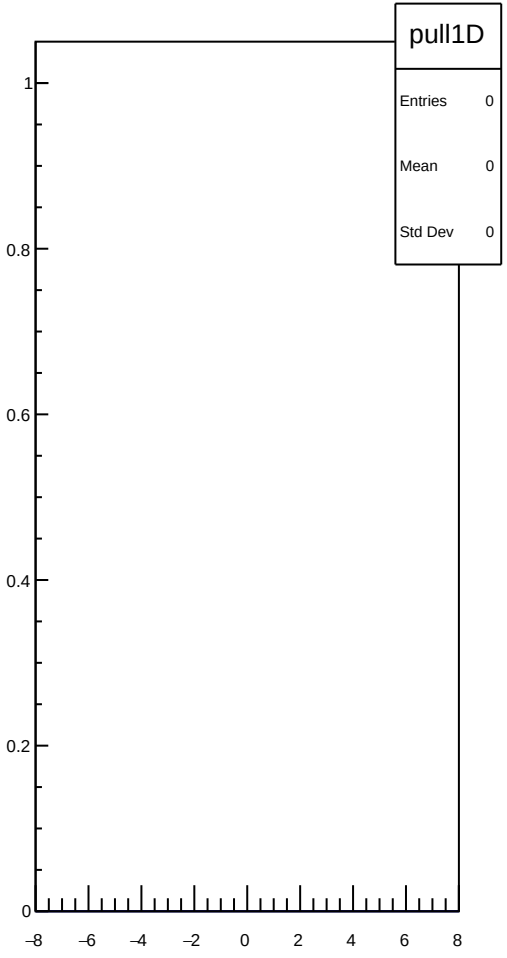

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

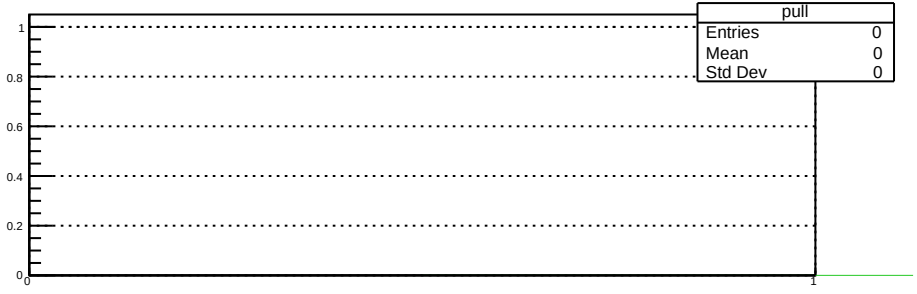

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

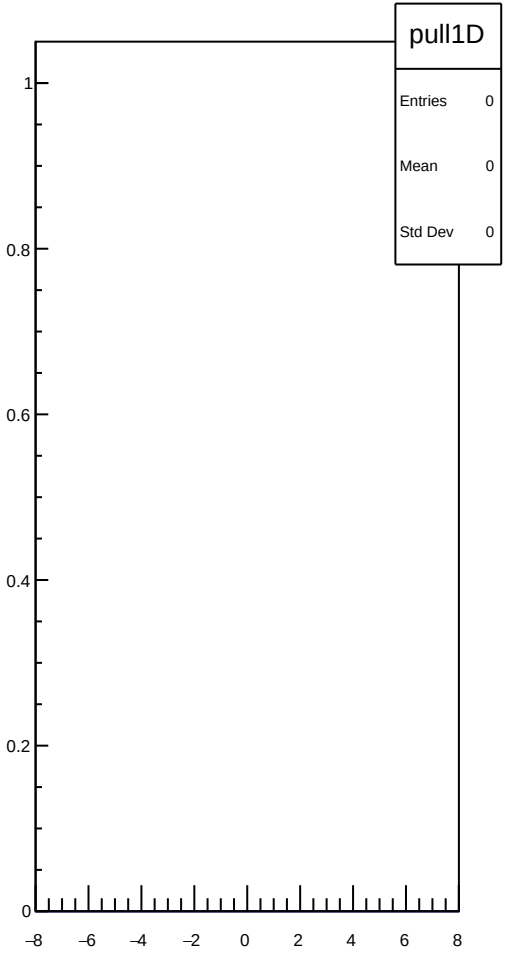

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

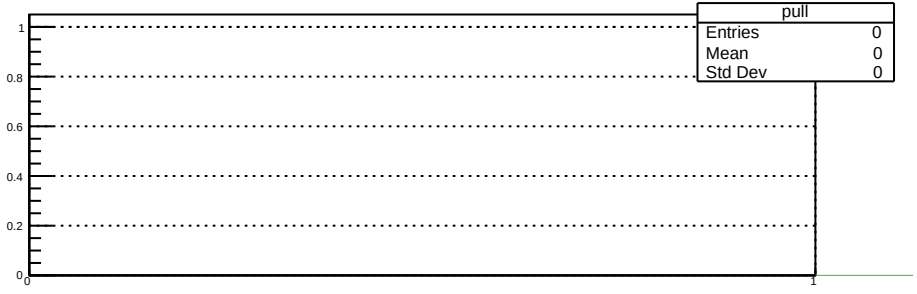

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

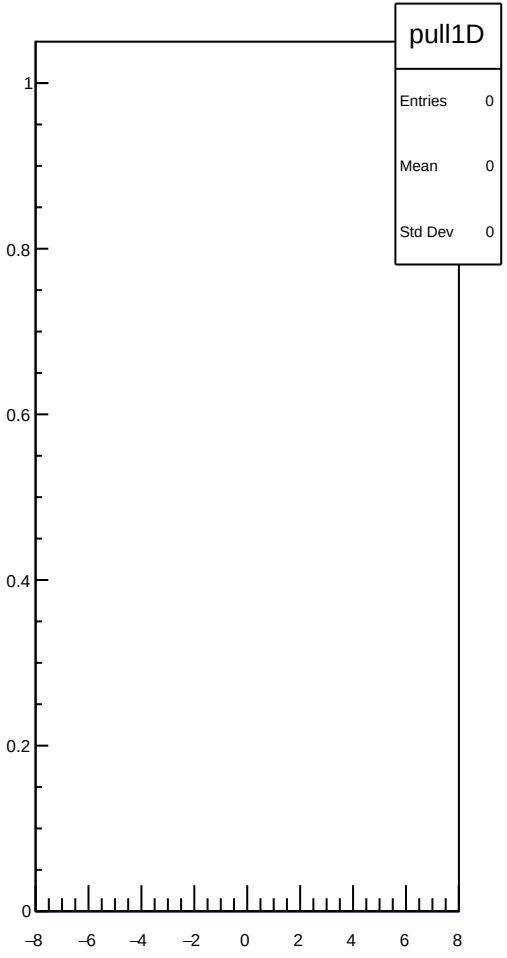

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

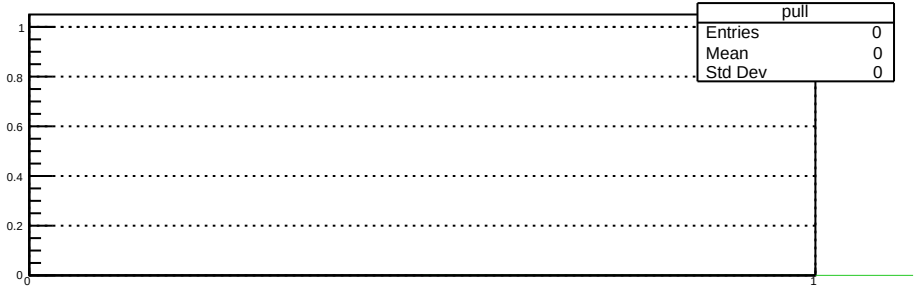

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

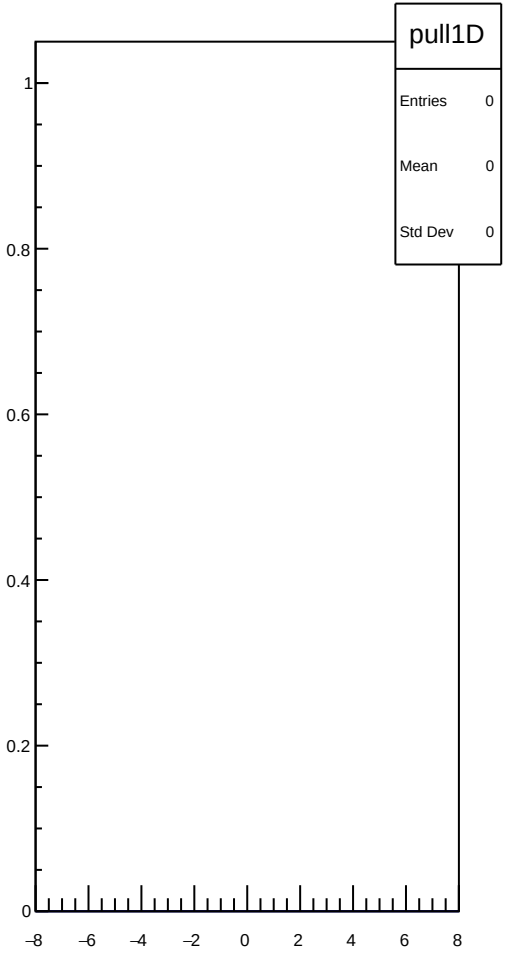

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

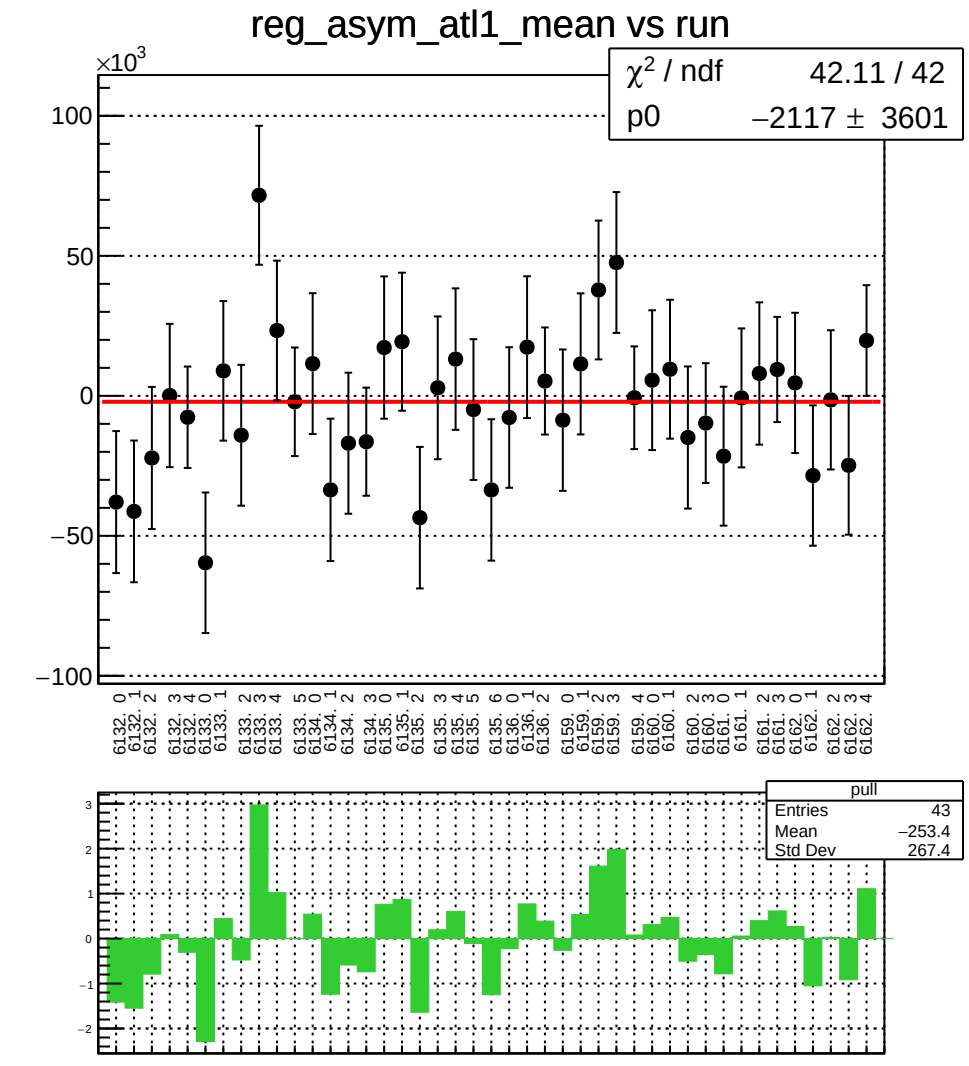

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

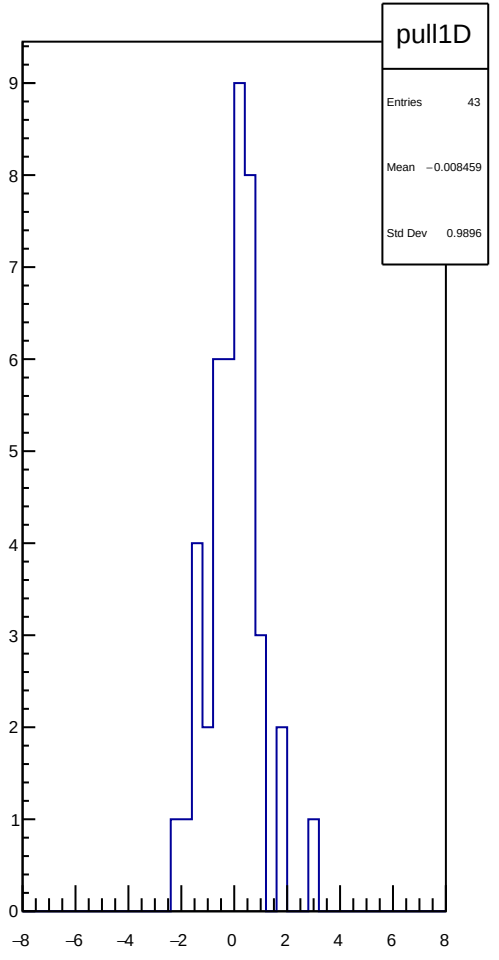

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

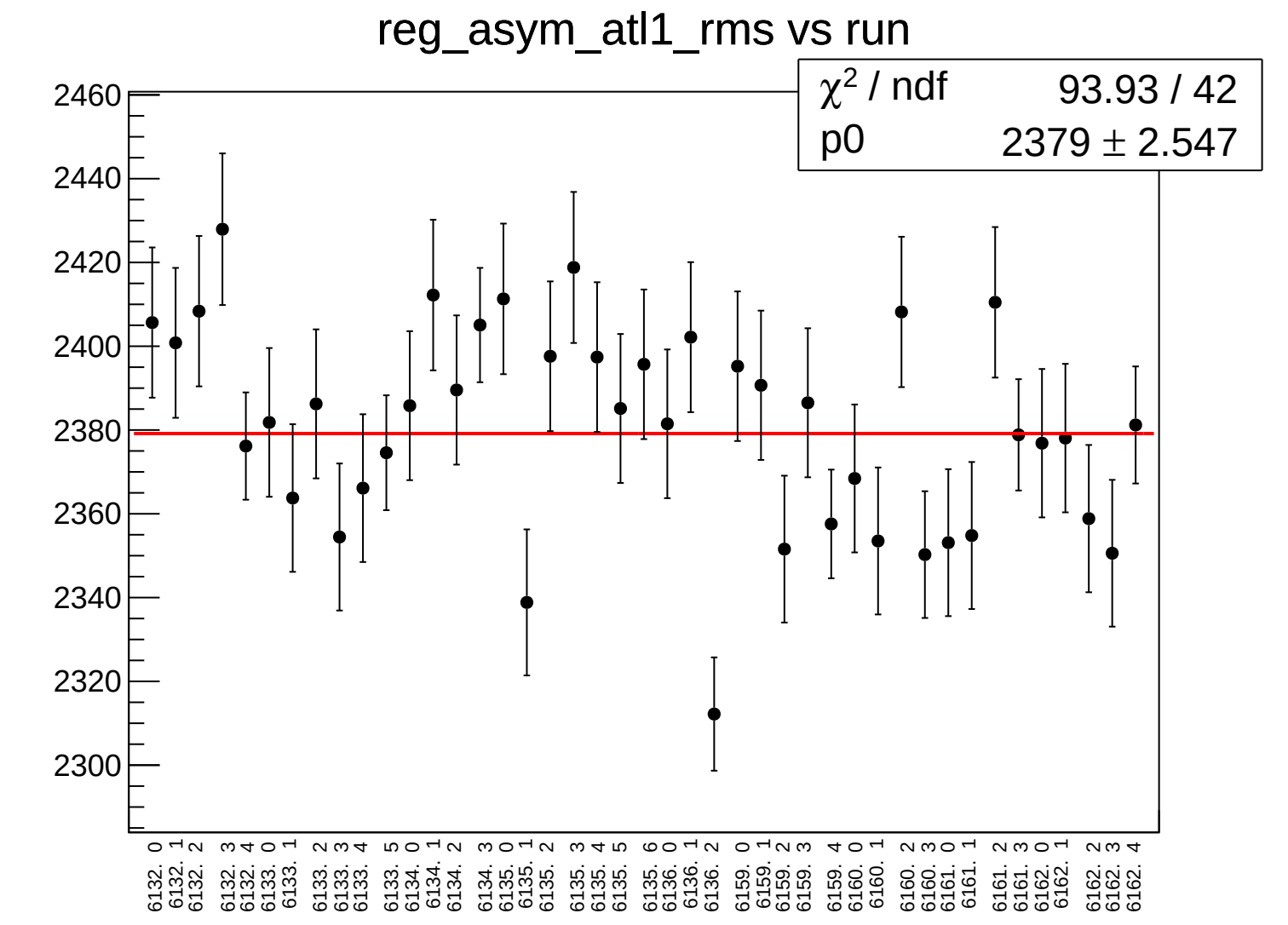

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

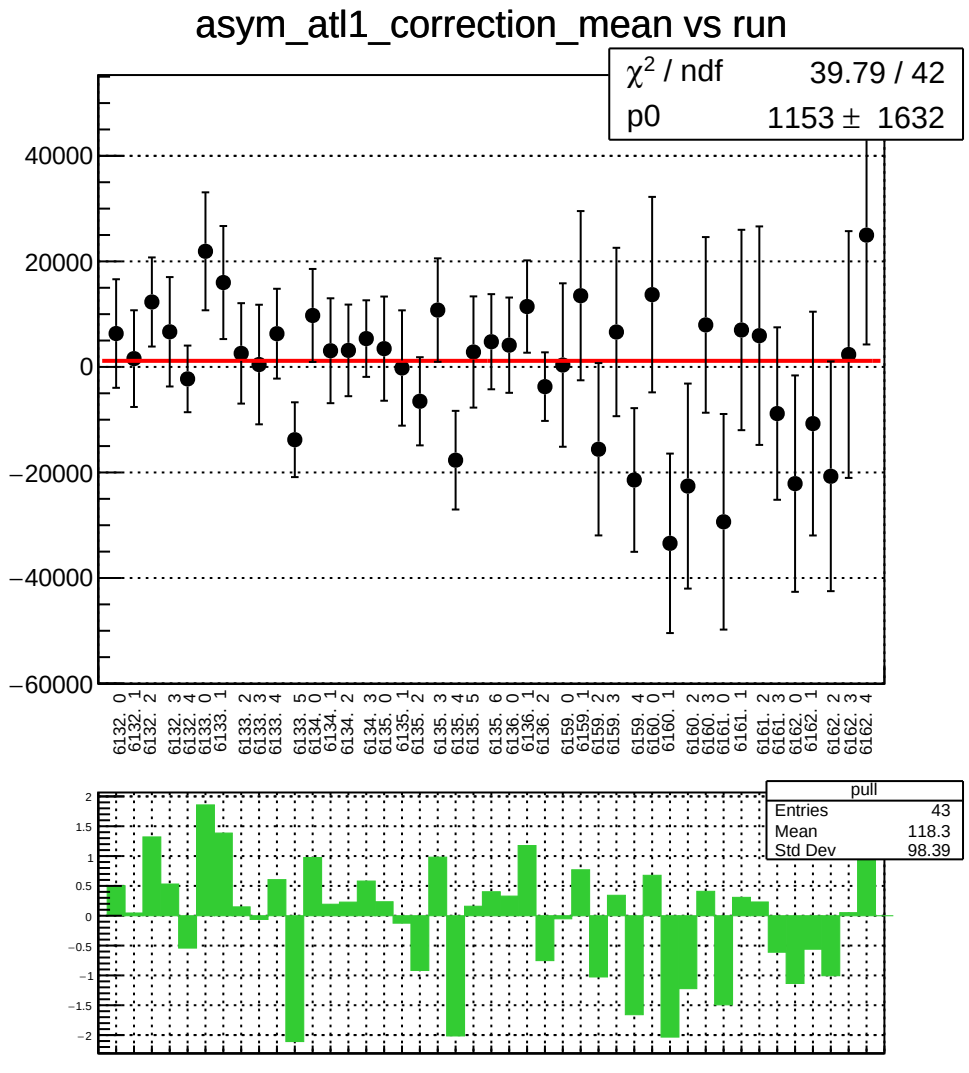

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

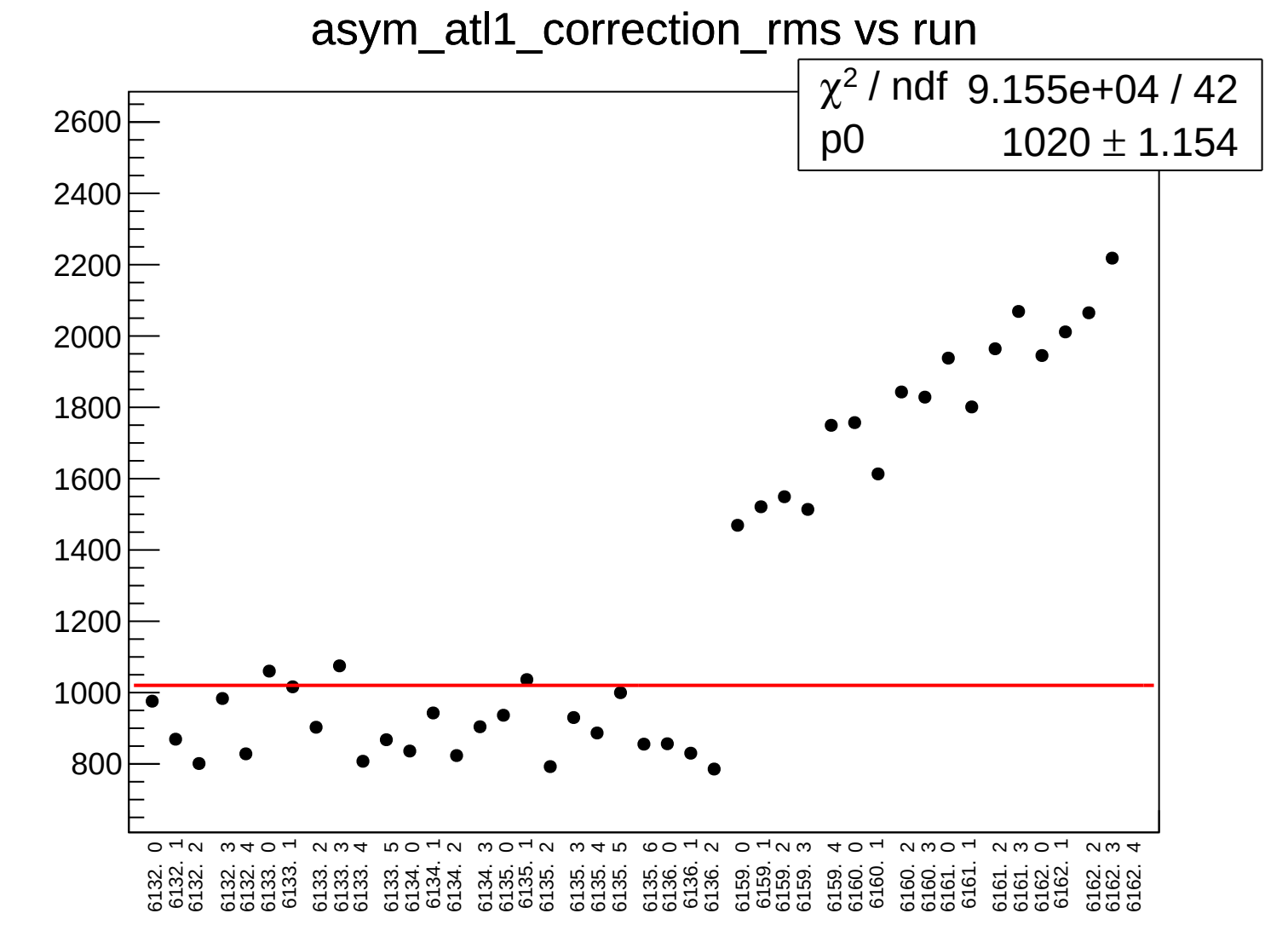

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

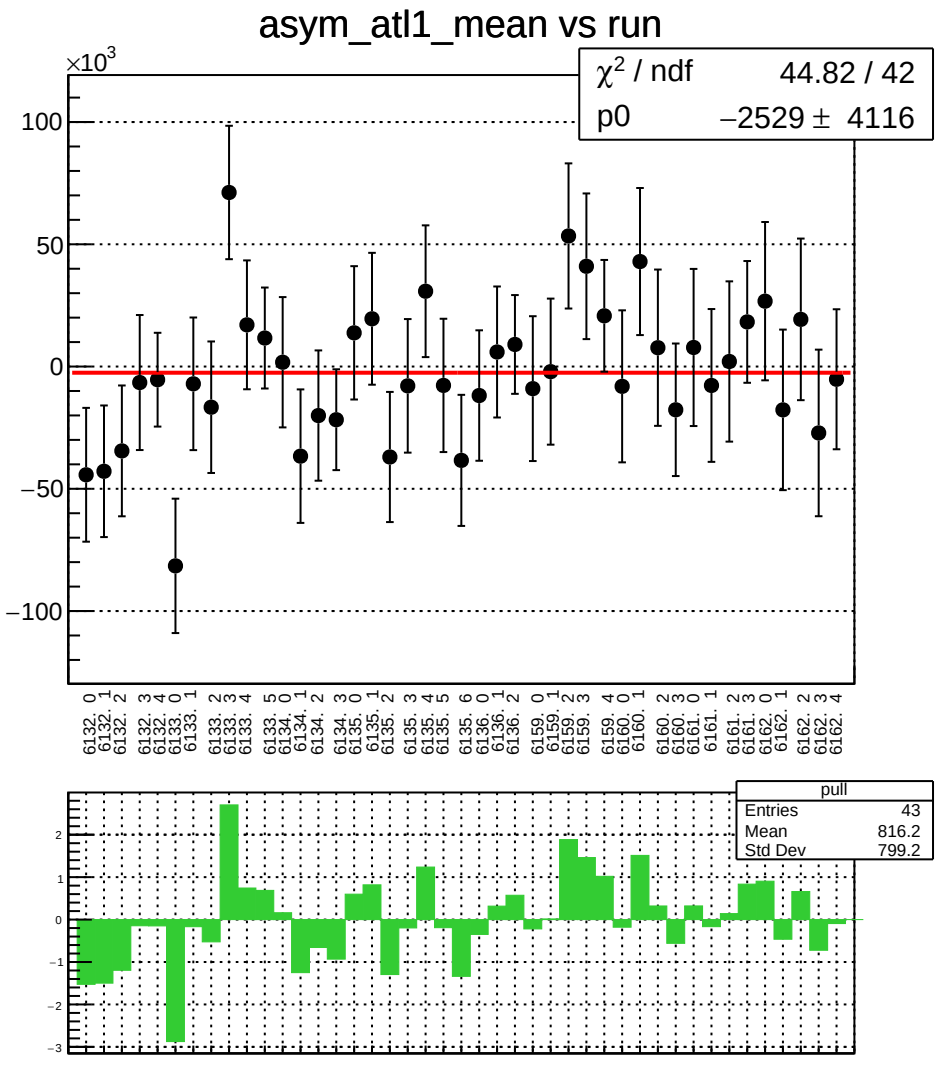

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 42.11 / 42
p0 −2117 ± 3601
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −253.4
Std Dev 267.4
3
2
1
0
−1
−2

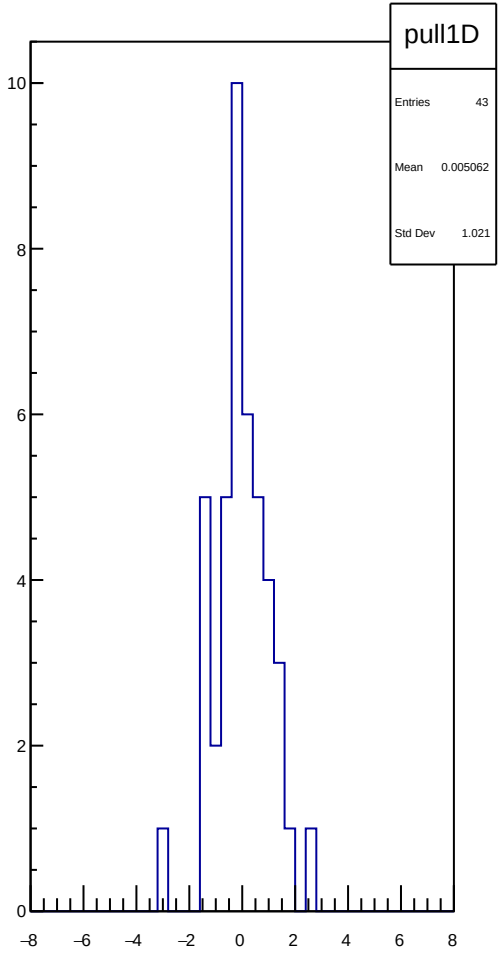

pull1D
Entries 43
Mean −0.008459
Std Dev 0.9896
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

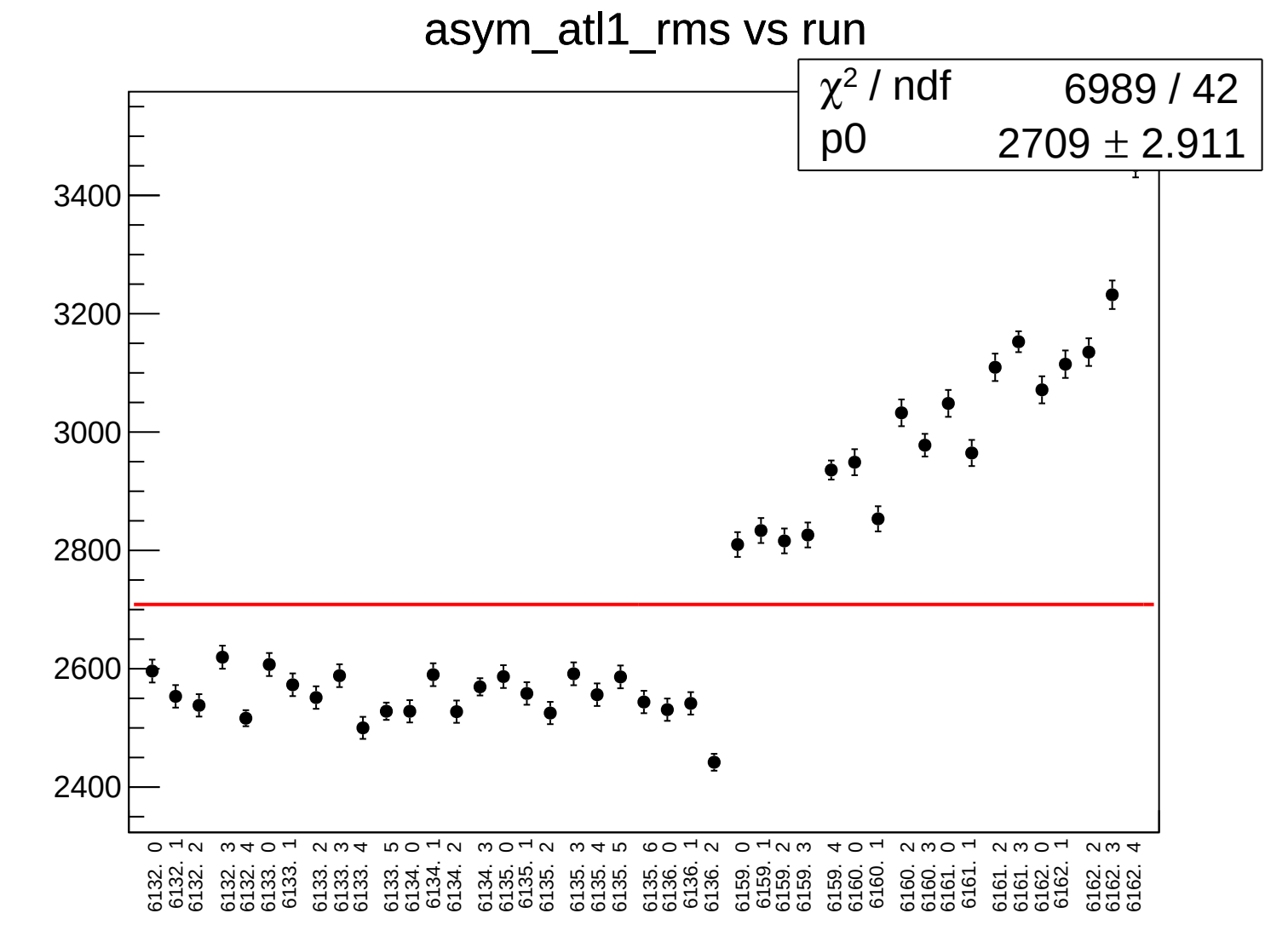

reg_asym_atl1_rms vs run
χ² / ndf 93.93 / 42
p0 2379 ± 2.547
2460
2440
2420
2400
2380
2360
2340
2320
2300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

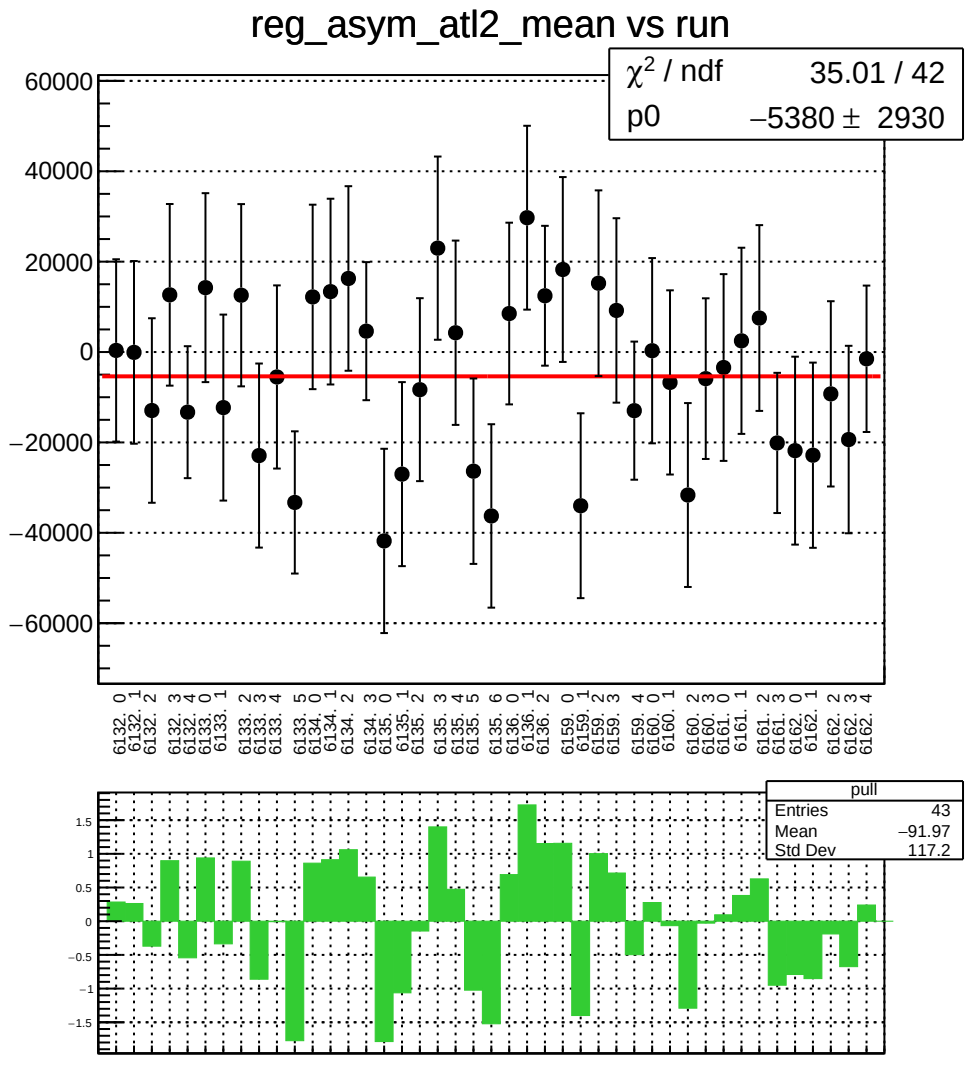

asym_atl1_correction_mean vs run
χ² / ndf 39.79 / 42
p0 1153 ± 1632
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 118.3
Std Dev 98.39
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.04006
Std Dev 0.9612
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

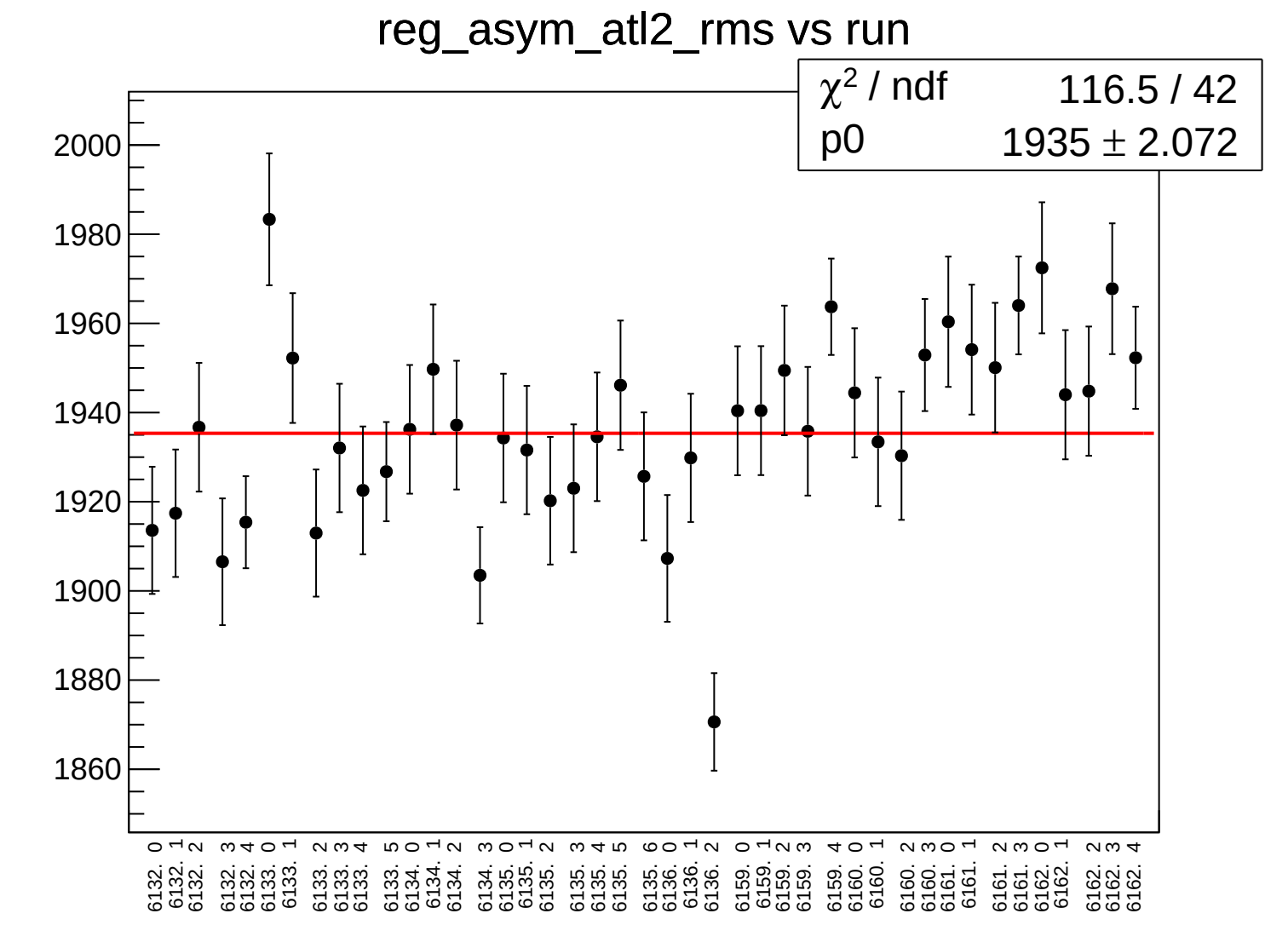

asym_atl1_correction_rms vs run
χ² / ndf 9.155e+04 / 42
p0 1020 ± 1.154
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

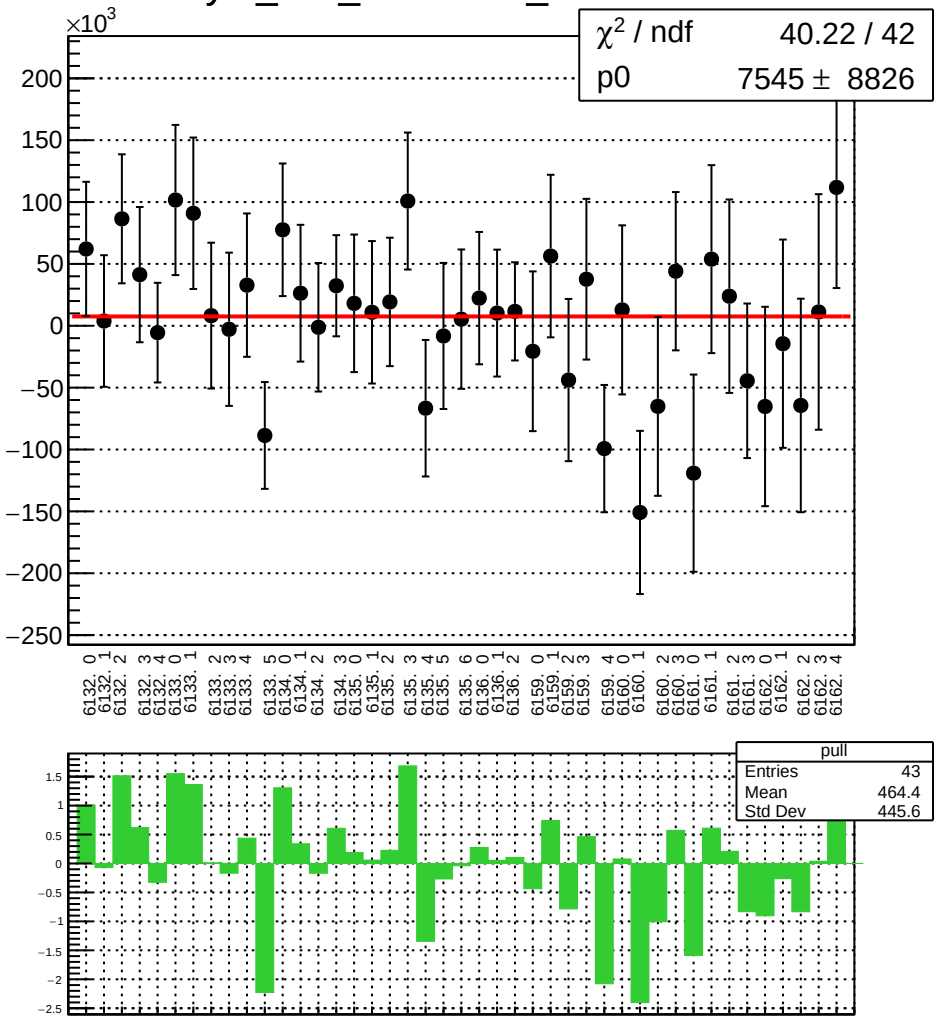

asym_atl1_mean vs run
×10^3
χ² / ndf 44.82 / 42
p0 −2529 ± 4116
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 816.2
Std Dev 799.2
2
1
0
−1
−2
−3

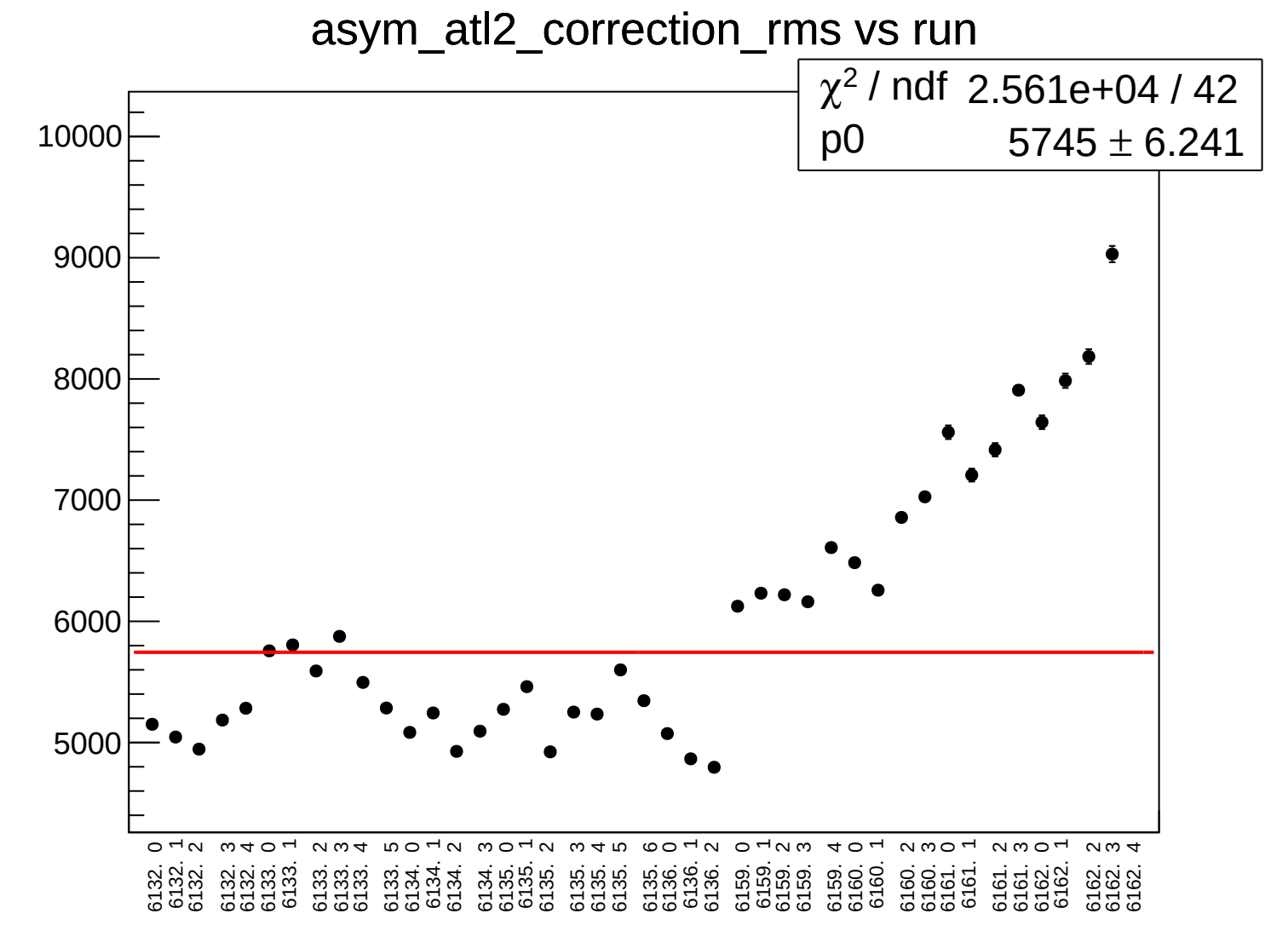

pull1D
Entries 43
Mean 0.005062
Std Dev 1.021
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

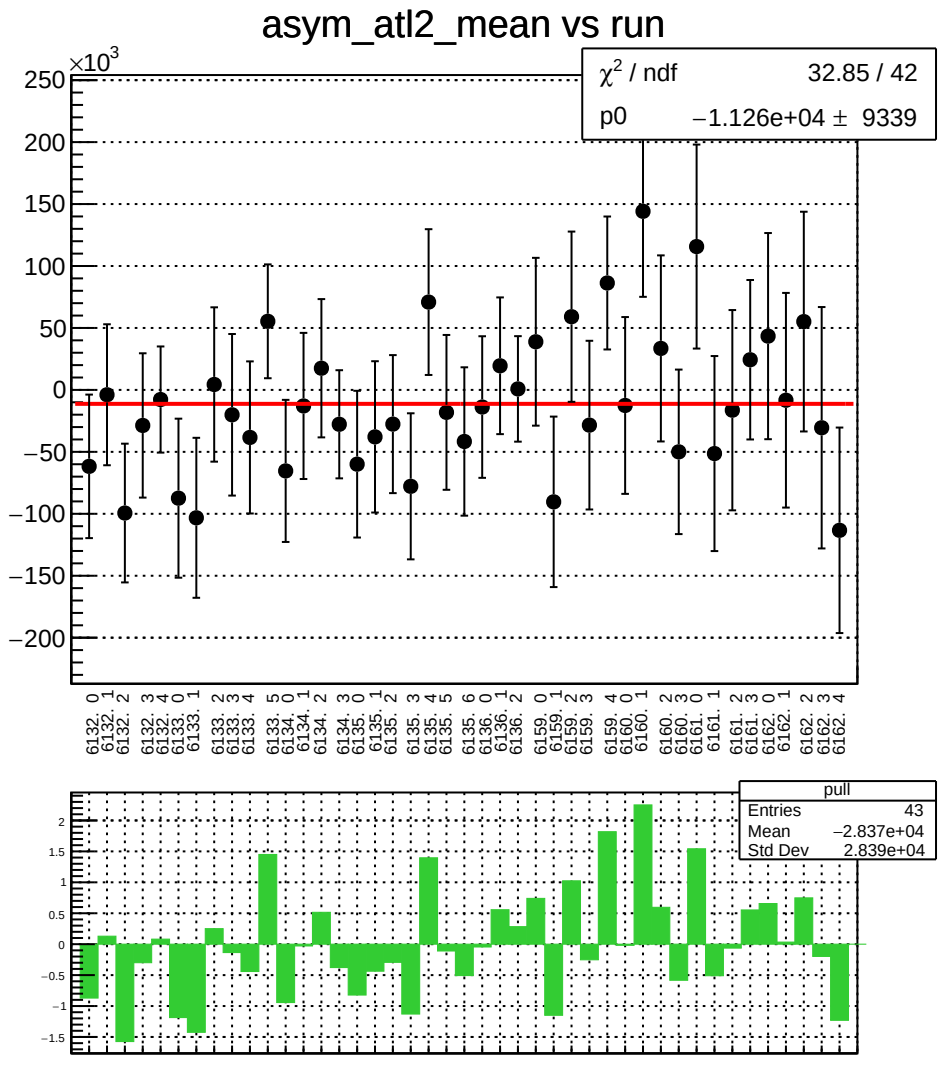

asym_atl1_rms vs run
χ² / ndf 6989 / 42
p0 2709 ± 2.911
3400
3200
3000
2800
2600
2400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

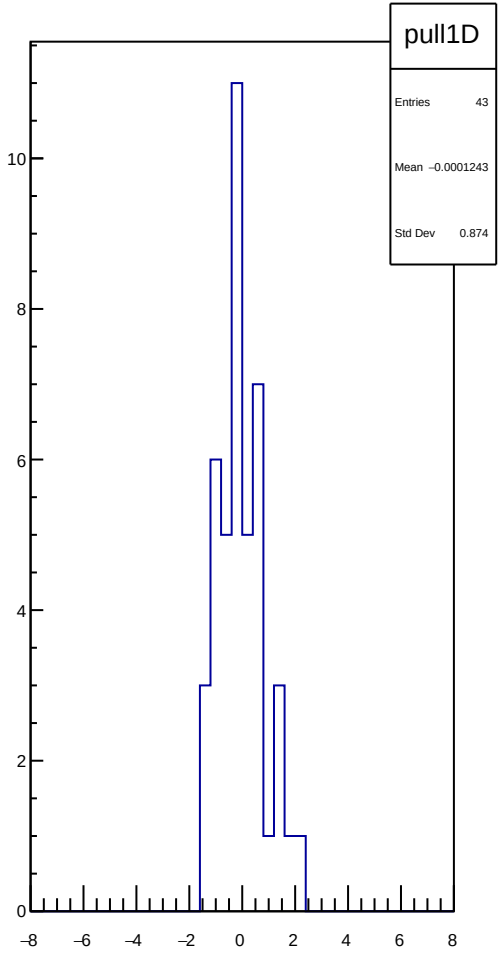

reg_asym_atl2_mean vs run
χ² / ndf 35.01 / 42
p0 −5380 ± 2930
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −91.97
Std Dev 117.2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01243
Std Dev 0.9023
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

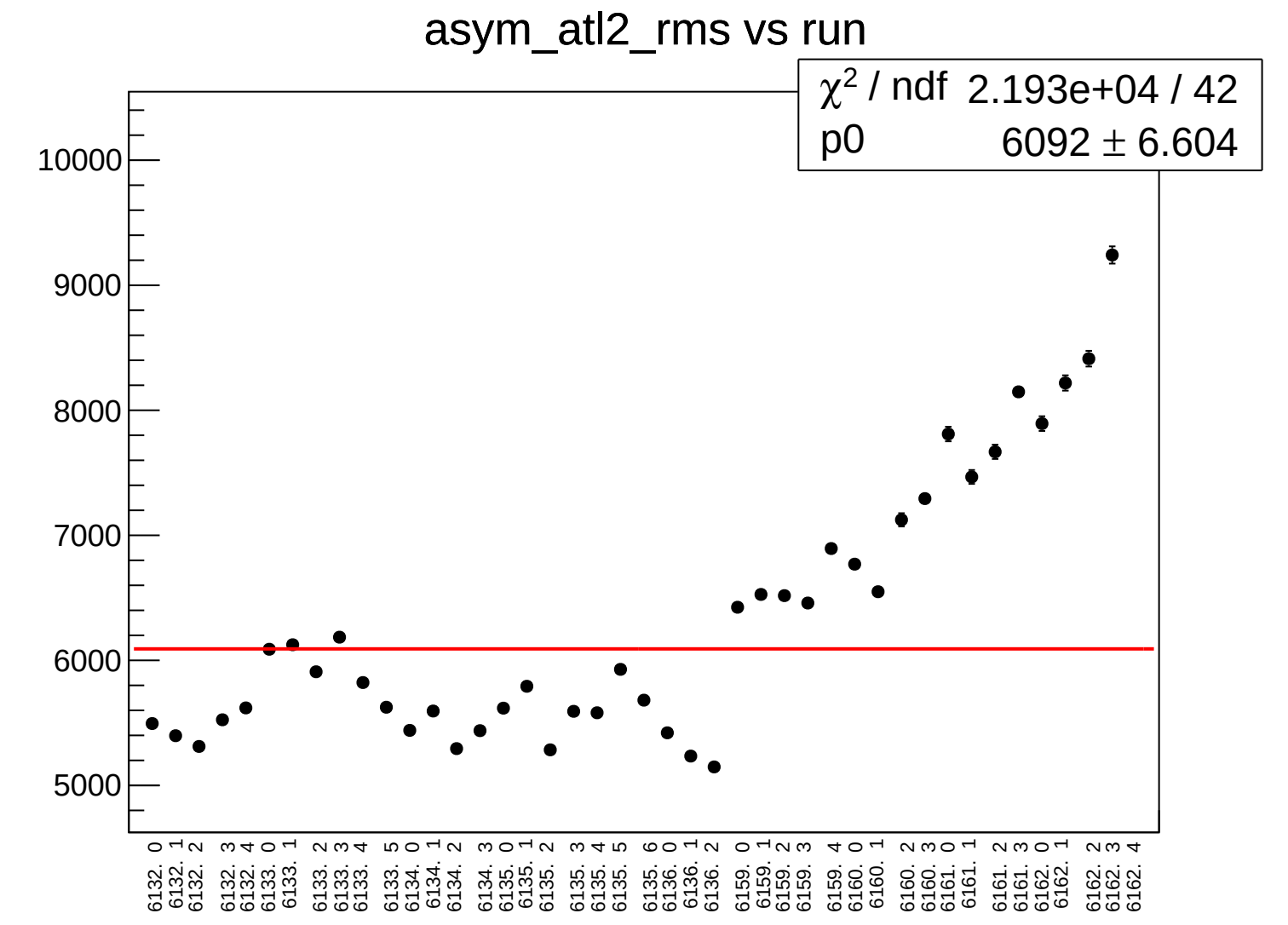

reg_asym_atl2_rms vs run
χ² / ndf 116.5 / 42
p0 1935 ± 2.072
2000
1980
1960
1940
1920
1900
1880
1860
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

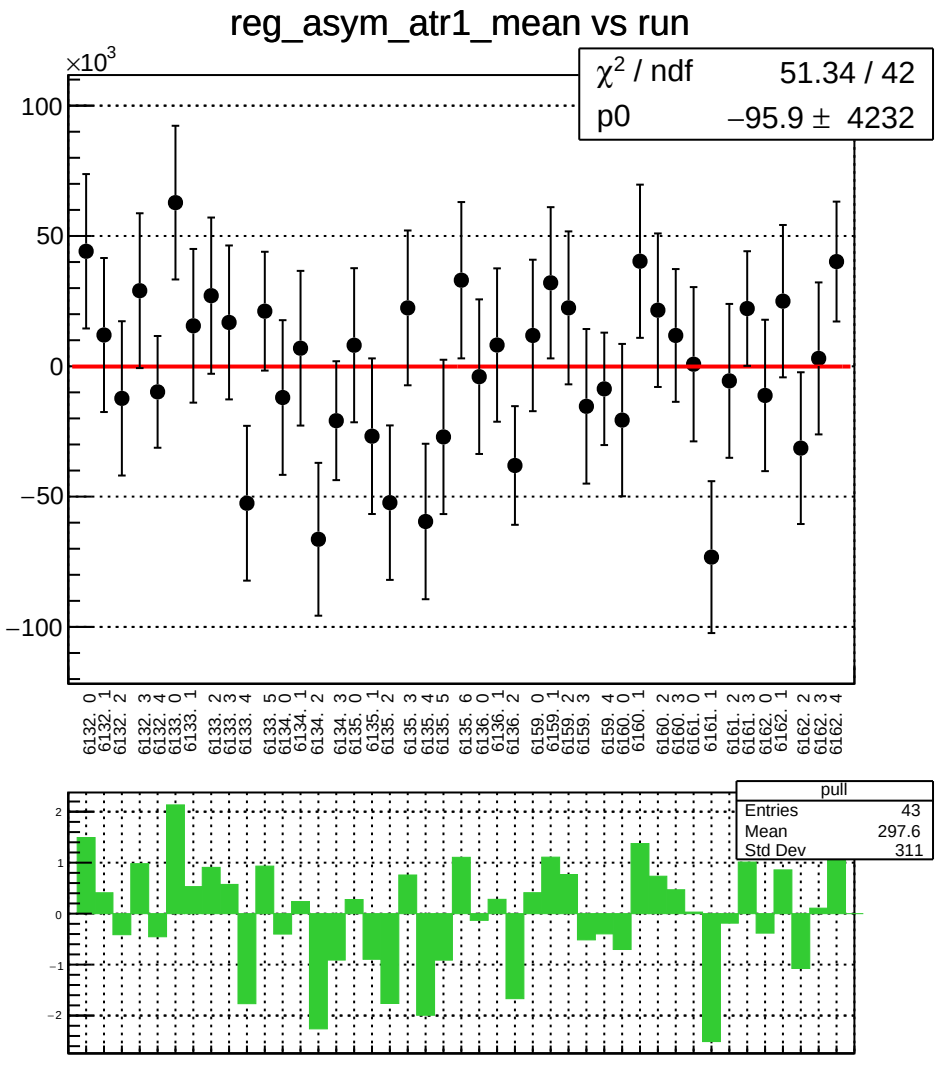

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 40.22 / 42
p0 7545 ± 8826
200
150
100
50
0
−50
−100
−150
−200
−250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 464.4
Std Dev 445.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.009186
Std Dev 0.967
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

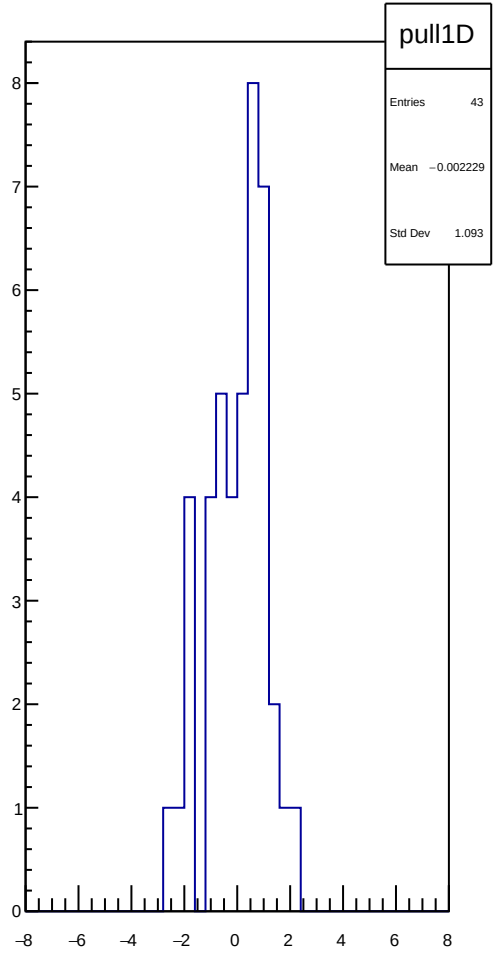

asym_atl2_correction_rms vs run
χ² / ndf 2.561e+04 / 42
p0 5745 ± 6.241
10000
9000
8000
7000
6000
5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

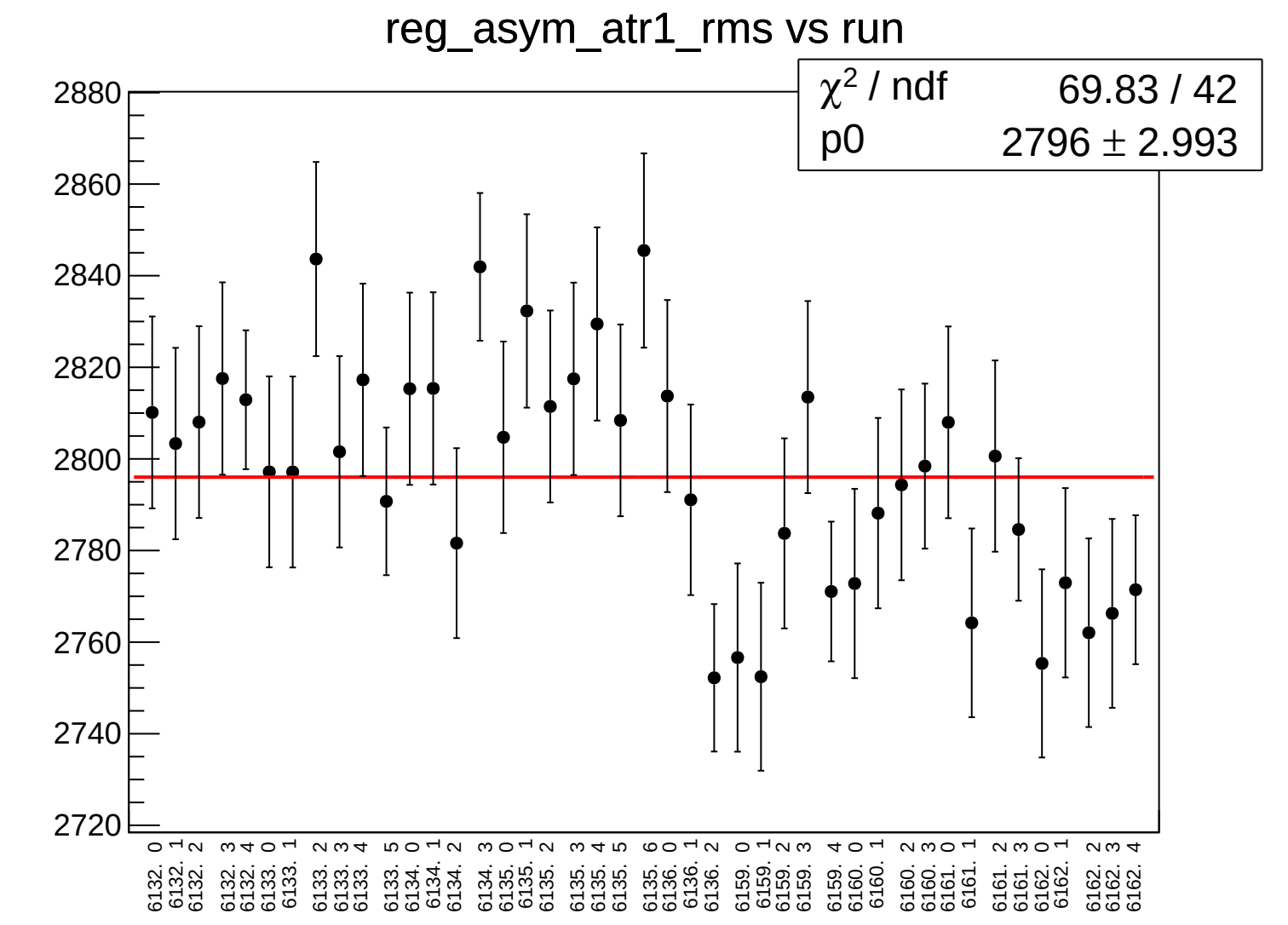

asym_atl2_mean vs run
×10^3
χ² / ndf 32.85 / 42
p0 −1.126e+04 ± 9339
250
200
150
100
50
0
−50
−100
−150
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −2.837e+04
Std Dev 2.839e+04
2
1.5
1
0.5
0
−0.5
−1
−1.5

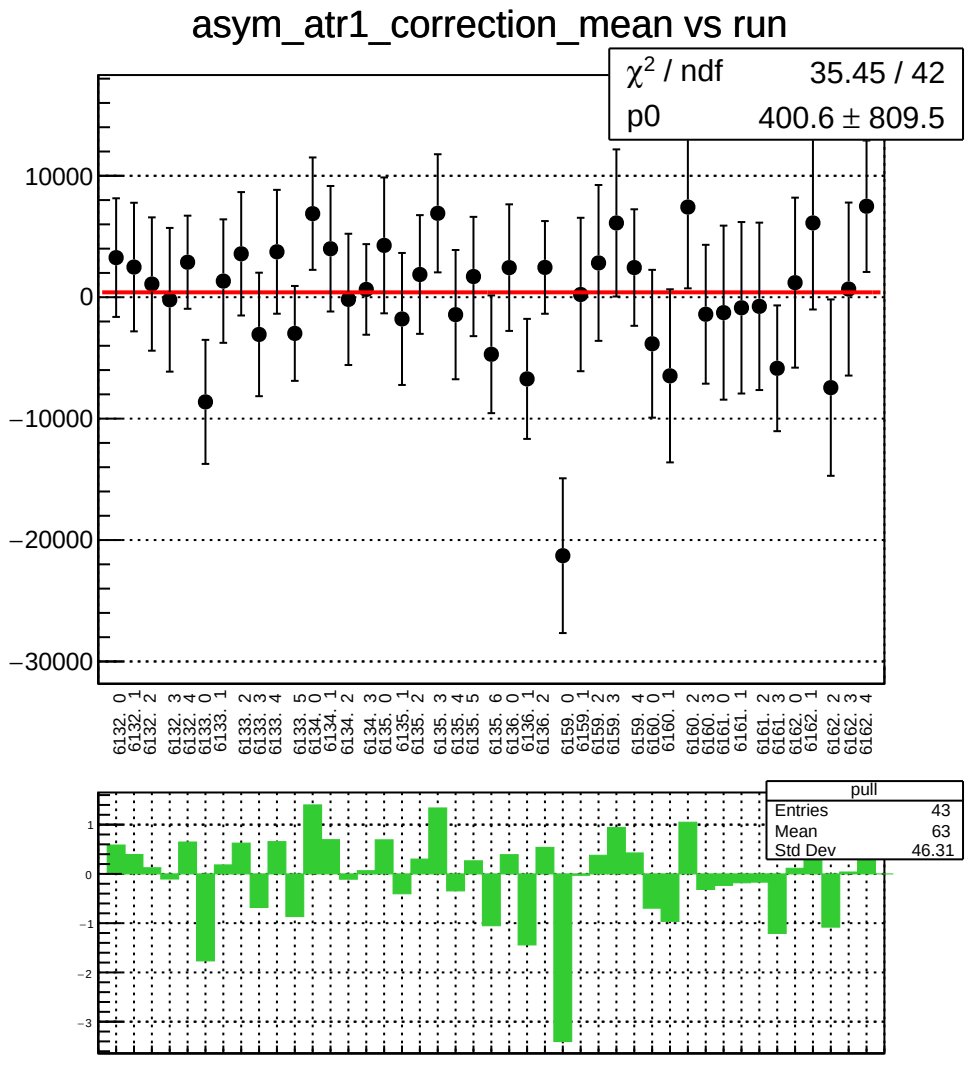

pull1D
Entries 43
Mean −0.0001243
Std Dev 0.874
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

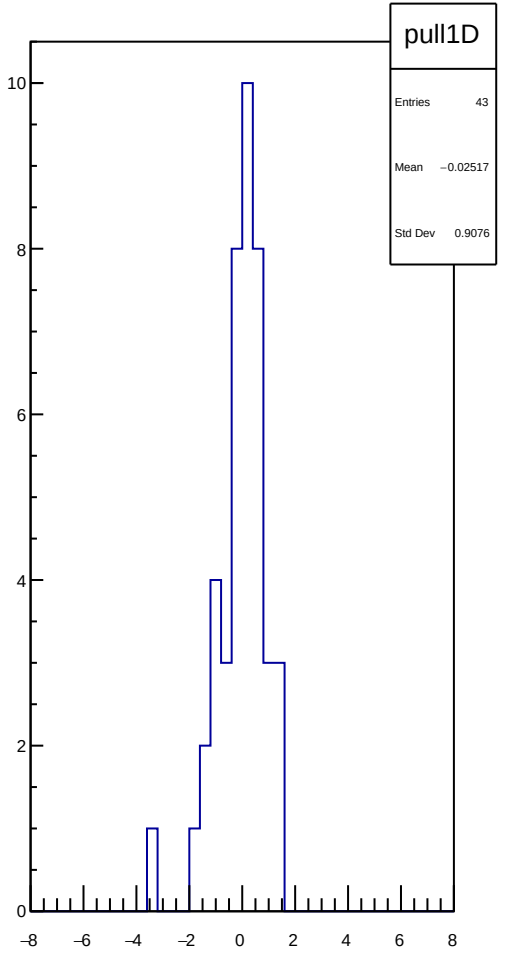

asym_atl2_rms vs run
χ² / ndf 2.193e+04 / 42
p0 6092 ± 6.604
10000
9000
8000
7000
6000
5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

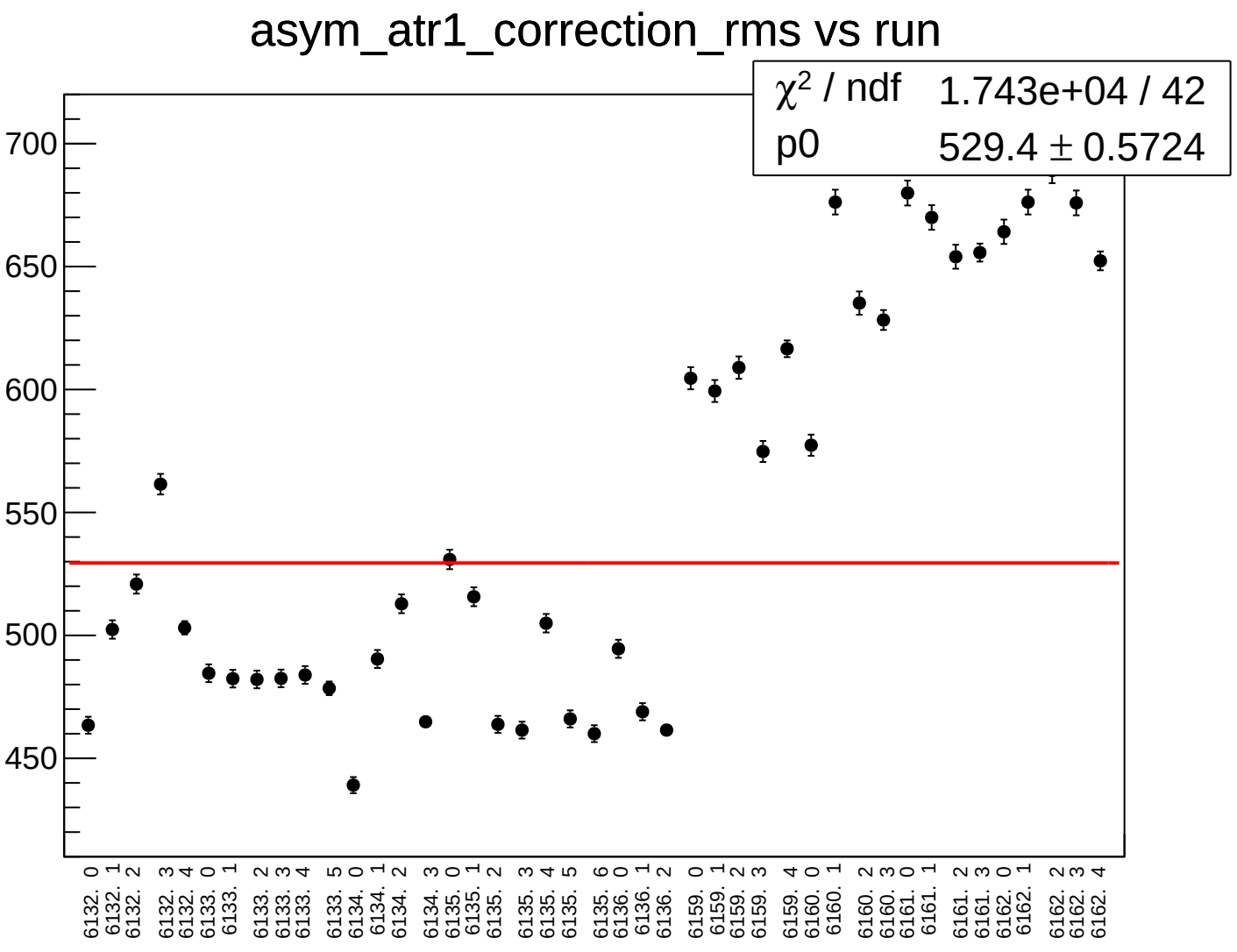

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 51.34 / 42
p0 −95.9 ± 4232
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 297.6
Std Dev 311
2
1
0
−1
−2

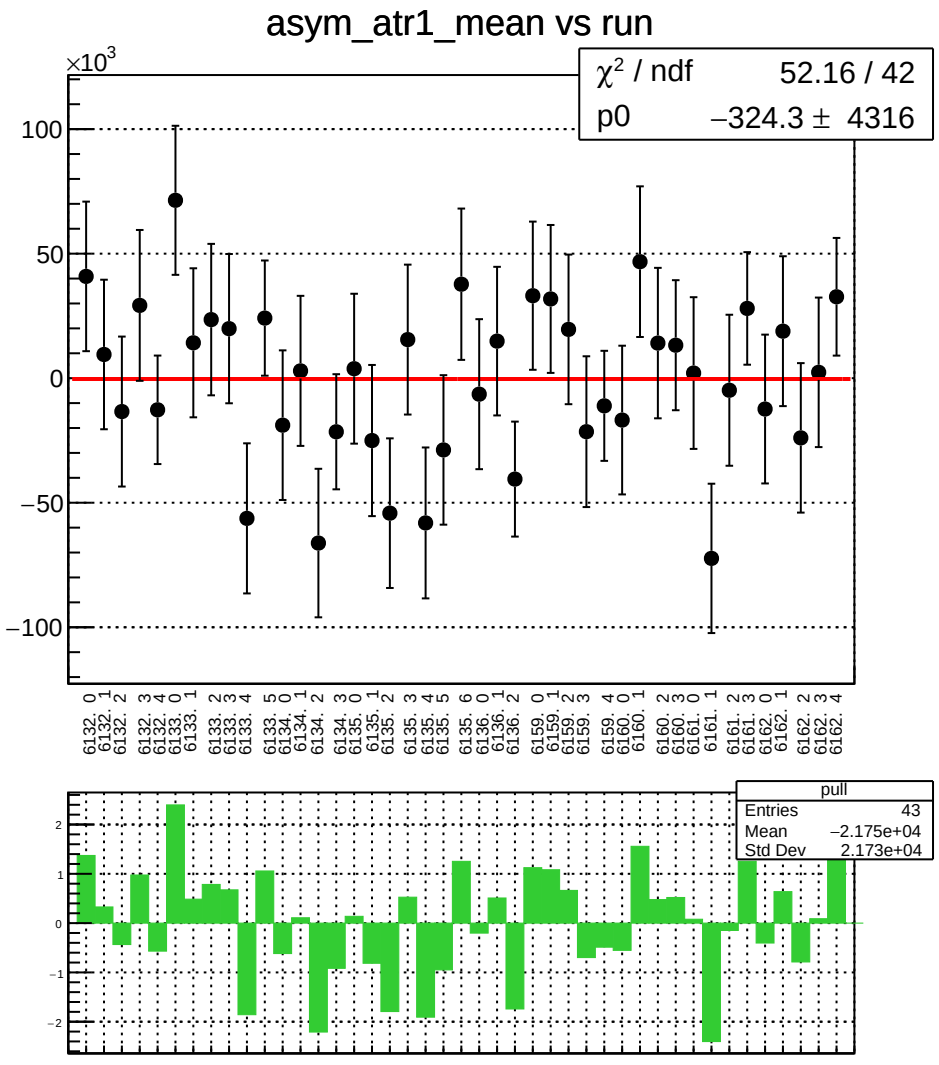

pull1D
Entries 43
Mean −0.002229
Std Dev 1.093
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

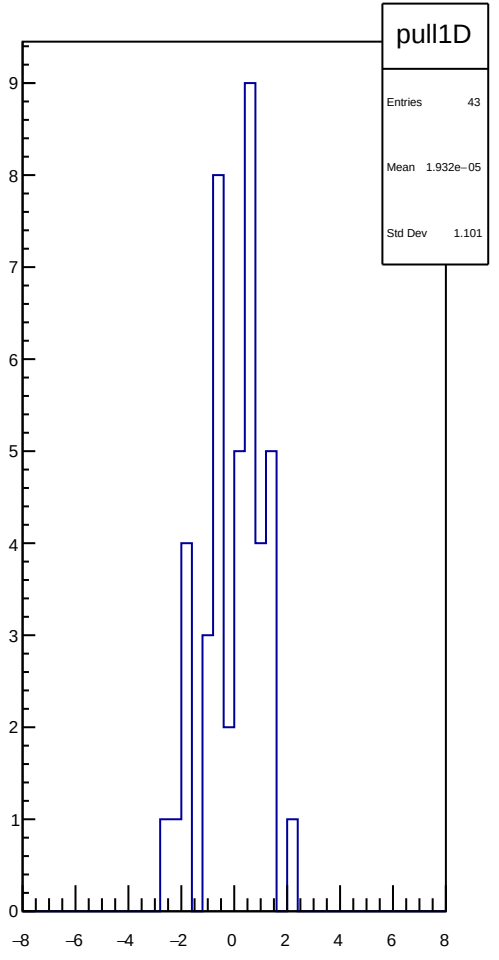

reg_asym_atr1_rms vs run
χ² / ndf 69.83 / 42
p0 2796 ± 2.993
2880
2860
2840
2820
2800
2780
2760
2740
2720
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

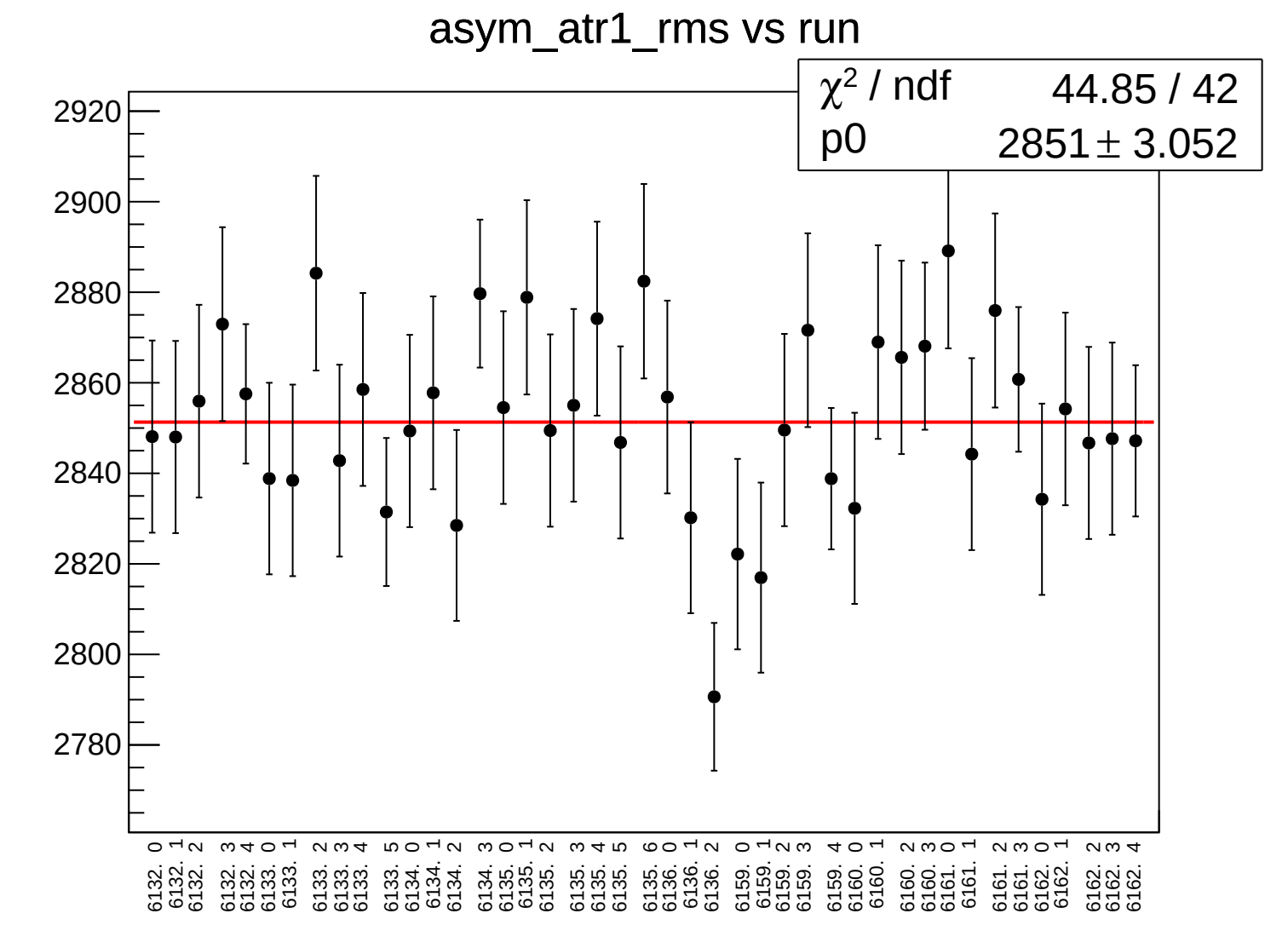

asym_atr1_correction_mean vs run
χ² / ndf 35.45 / 42
p0 400.6 ± 809.5
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 63
Std Dev 46.31
1
0
−1
−2
−3

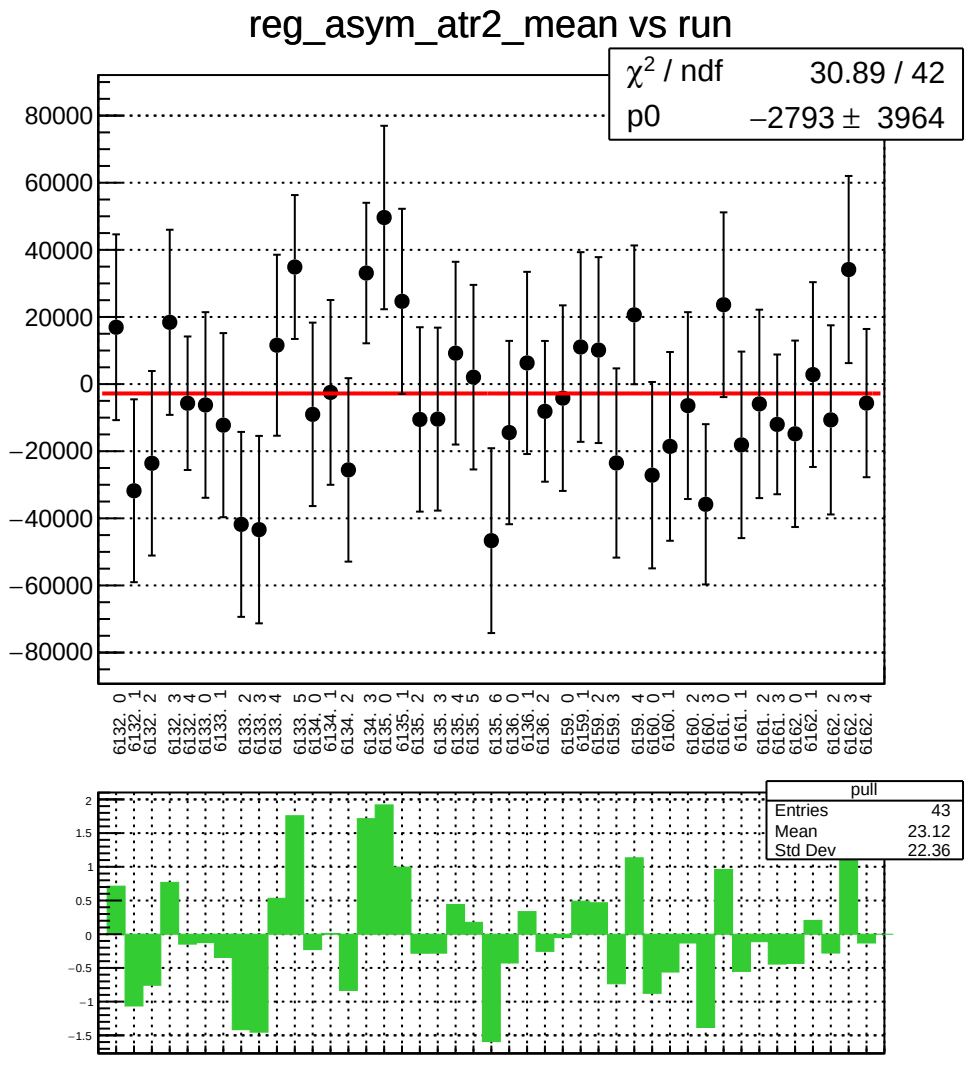

pull1D
Entries 43
Mean −0.02517
Std Dev 0.9076
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

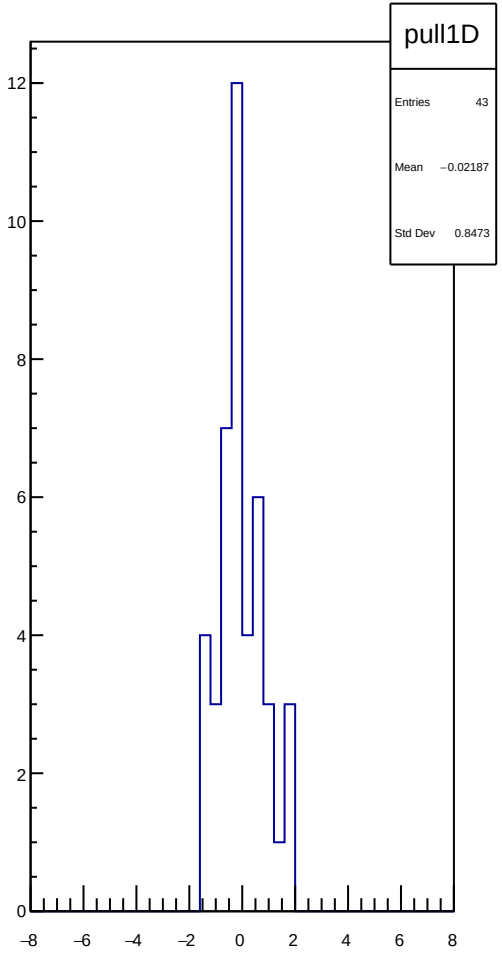

asym_atr1_correction_rms vs run
χ² / ndf 1.743e+04 / 42
p0 529.4 ± 0.5724
700
650
600
550
500
450
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

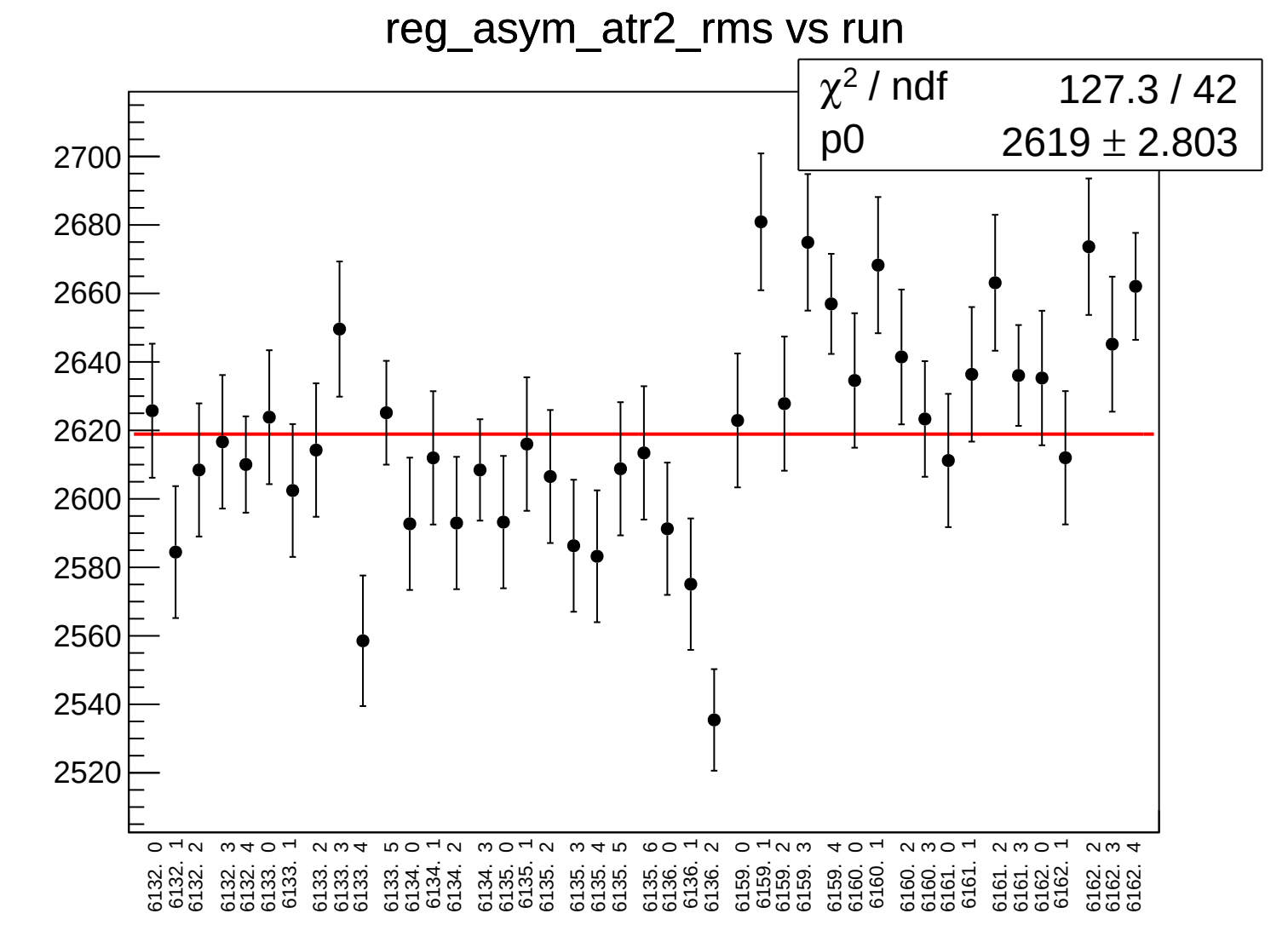

asym_atr1_mean vs run
×10^3
χ² / ndf 52.16 / 42
p0 −324.3 ± 4316
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −2.175e+04
Std Dev 2.173e+04
2
1
0
−1
−2

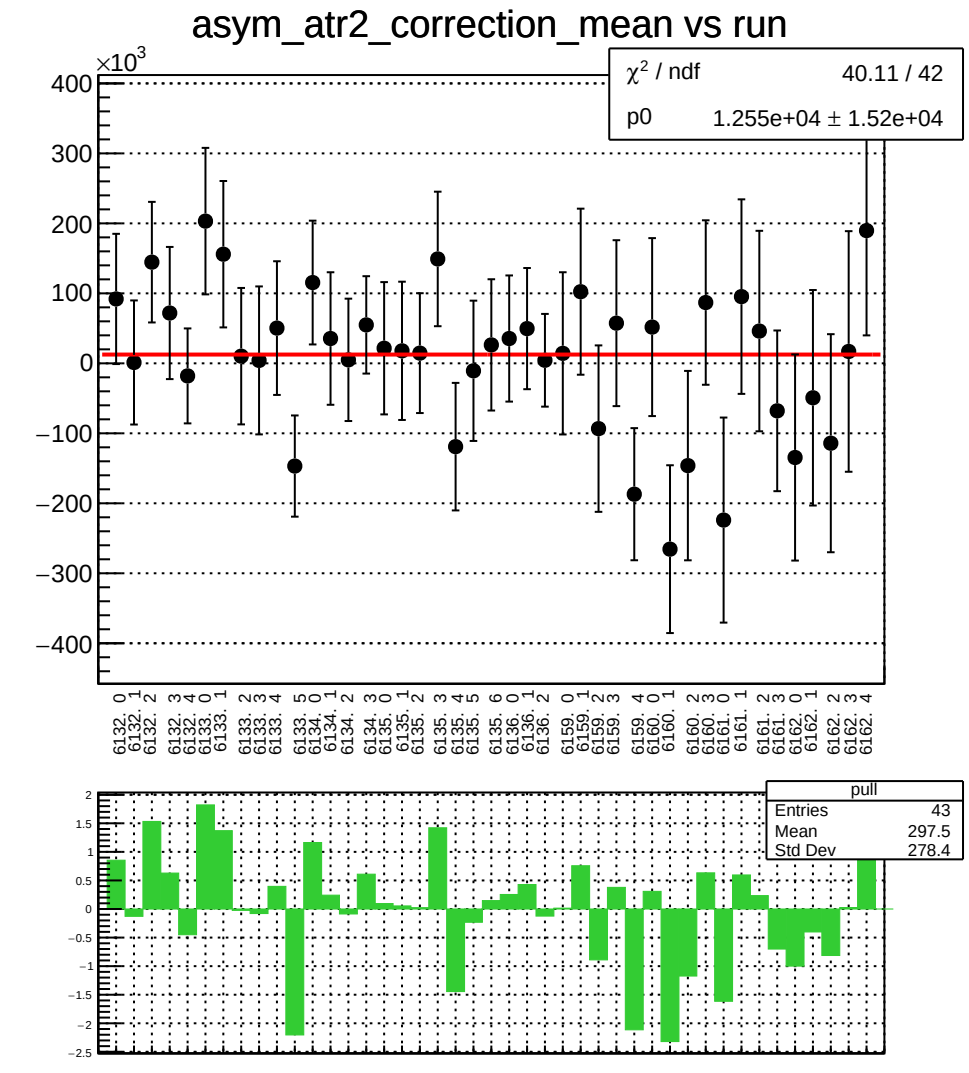

pull1D
Entries 43
Mean 1.932e−05
Std Dev 1.101
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

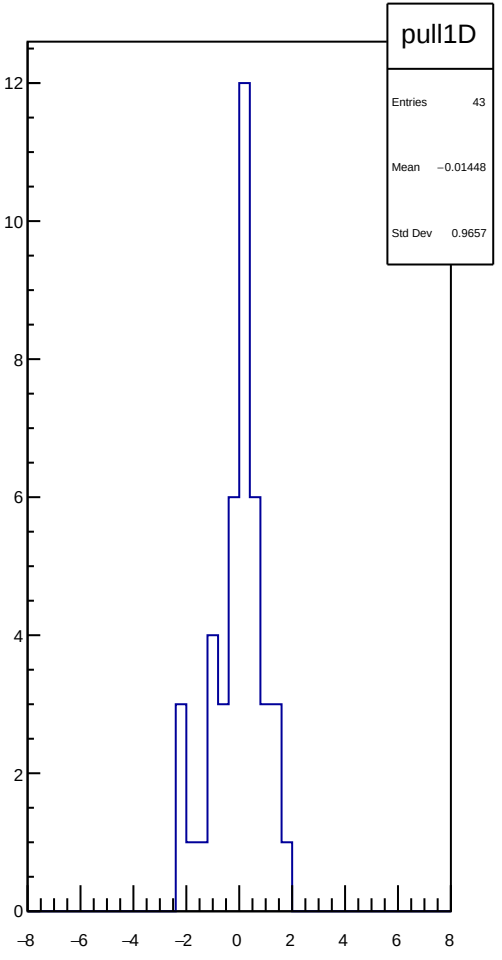

asym_atr1_rms vs run
χ² / ndf 44.85 / 42
p0 2851 ± 3.052
2920
2900
2880
2860
2840
2820
2800
2780
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

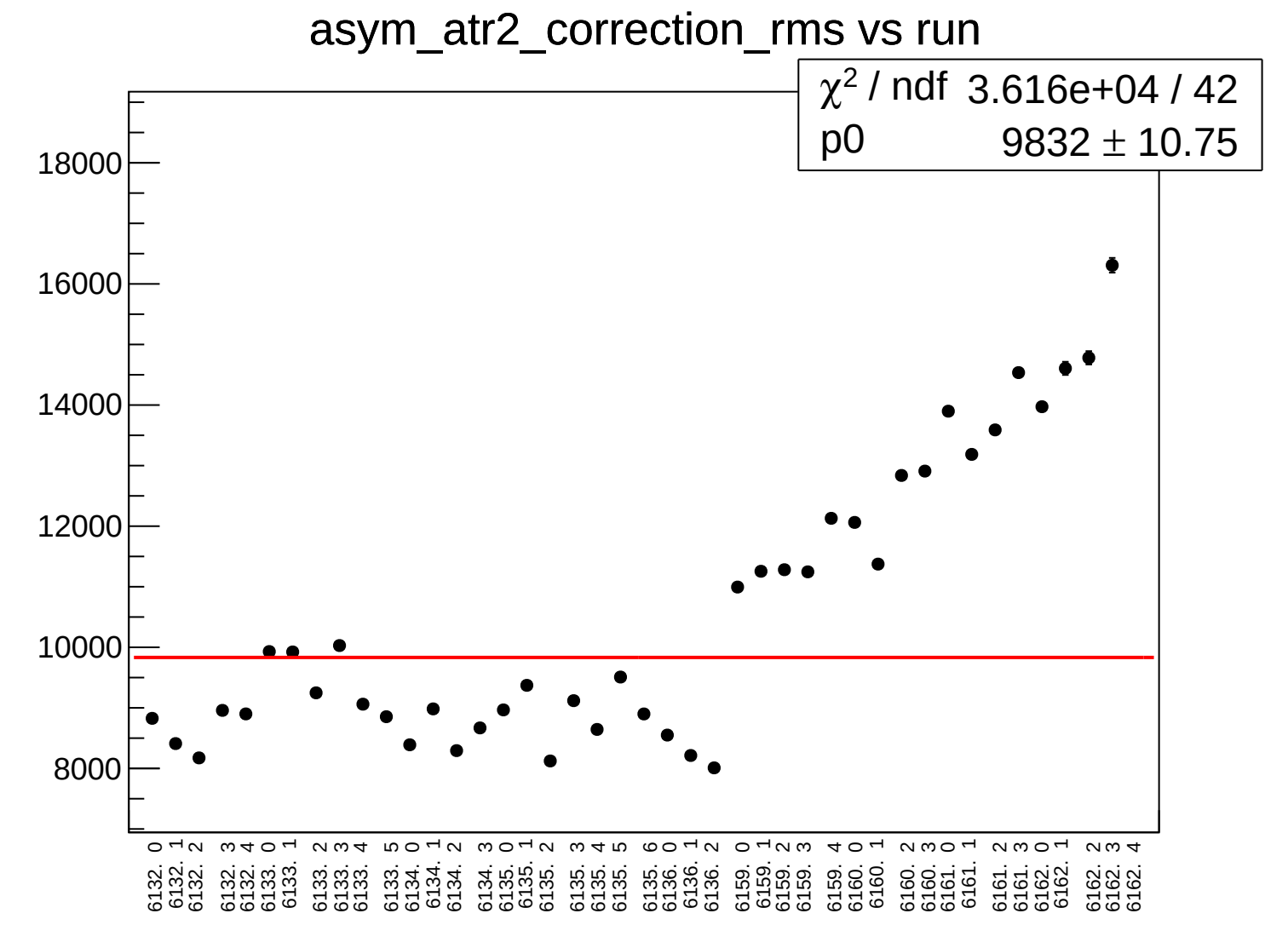

reg_asym_atr2_mean vs run
χ² / ndf 30.89 / 42
p0 −2793 ± 3964
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 23.12
Std Dev 22.36
2
1.5
1
0.5
0
−0.5
−1
−1.5

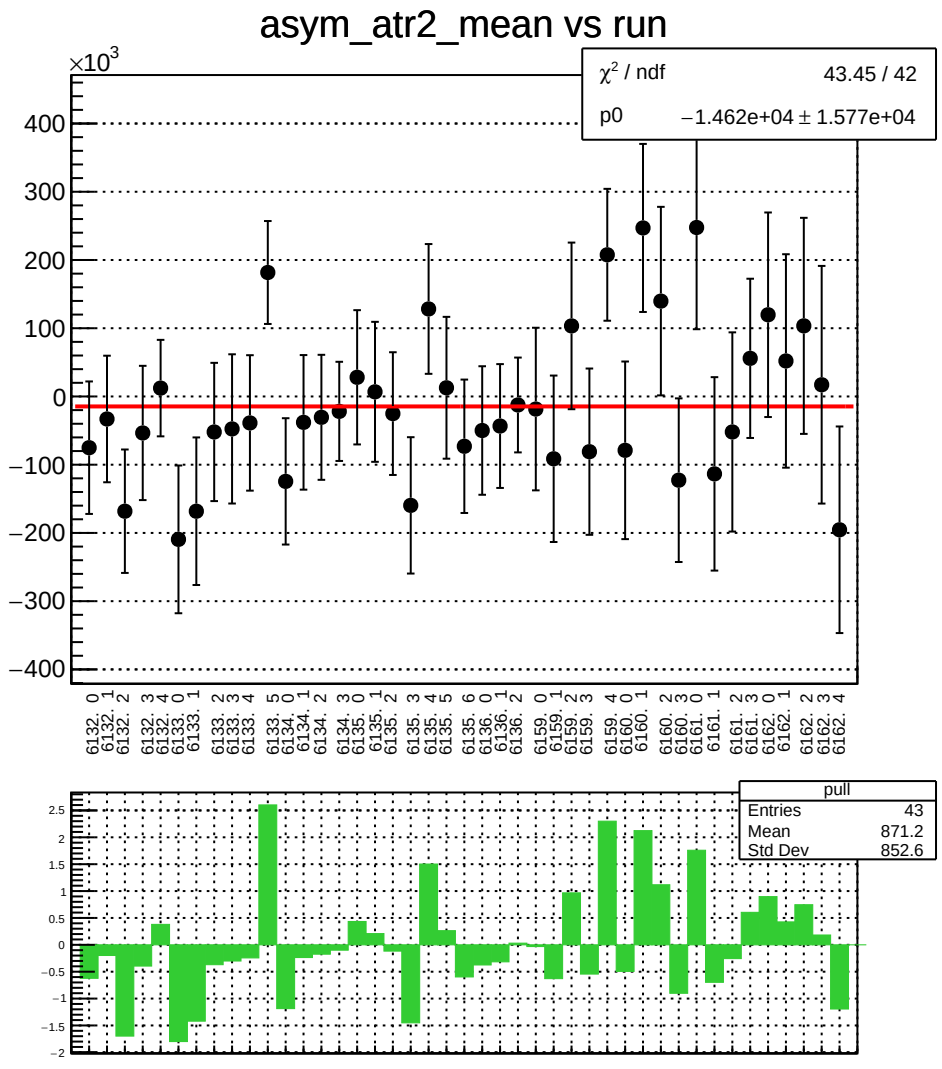

pull1D
Entries 43
Mean −0.02187
Std Dev 0.8473
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

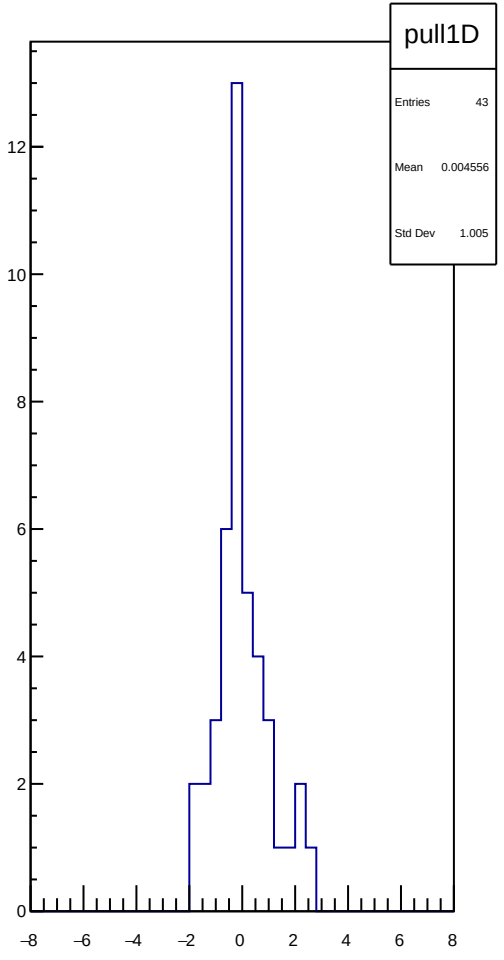

reg_asym_atr2_rms vs run
χ² / ndf 127.3 / 42
p0 2619 ± 2.803
2700
2680
2660
2640
2620
2600
2580
2560
2540
2520
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

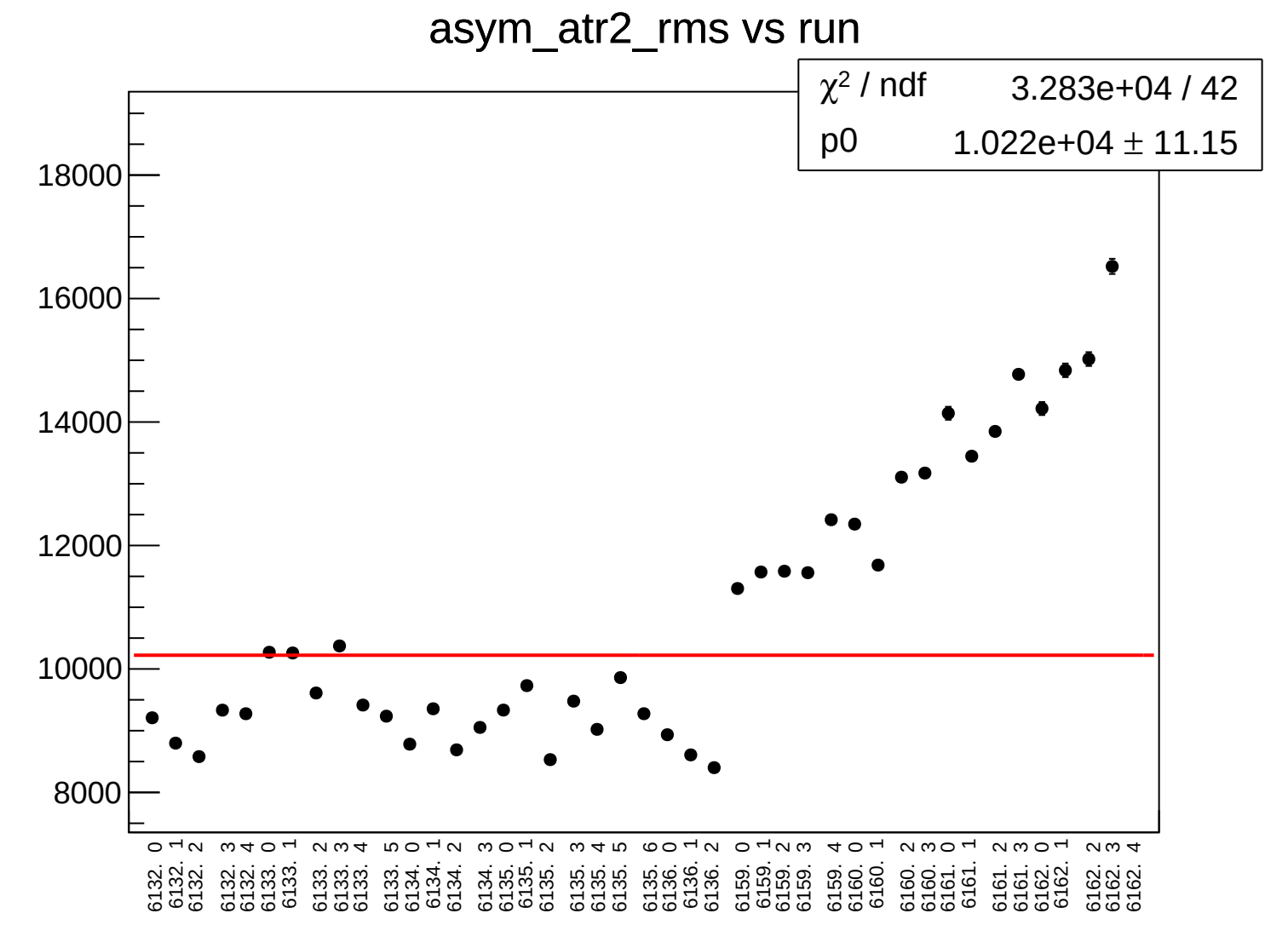

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 40.11 / 42
p0 1.255e+04 ± 1.52e+04
pull
Entries 43
Mean 297.5
Std Dev 278.4

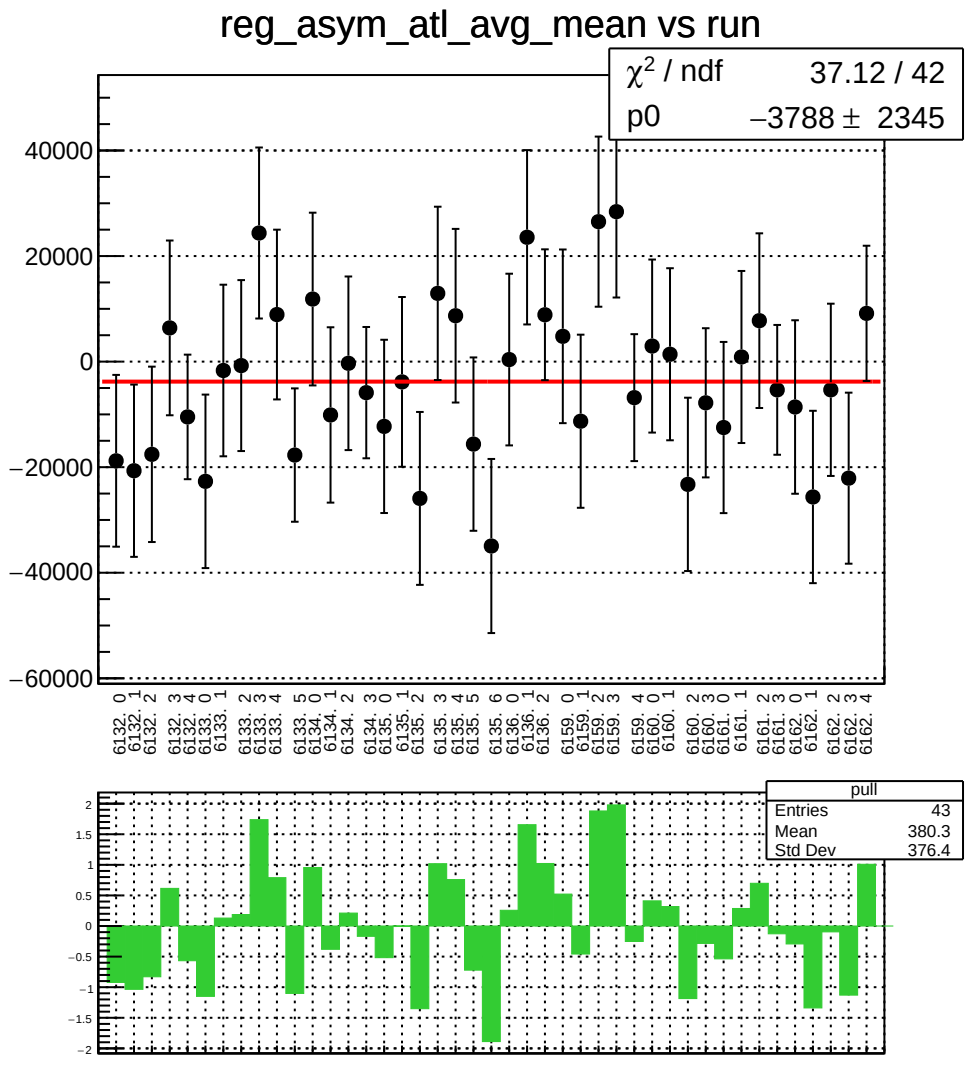

pull1D
Entries 43
Mean −0.01448
Std Dev 0.9657

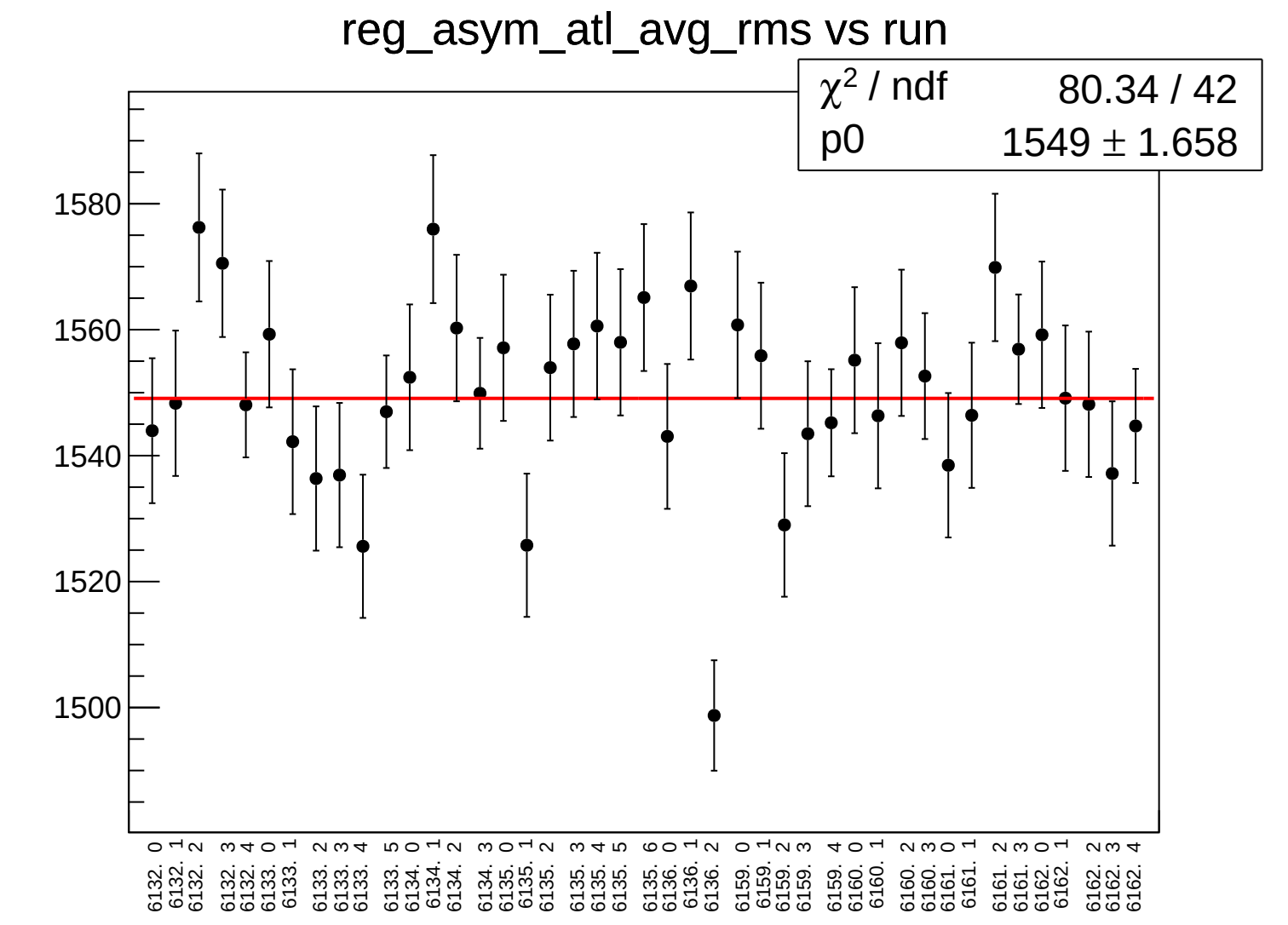

asym_atr2_correction_rms vs run
χ² / ndf 3.616e+04 / 42
p0 9832 ± 10.75
18000
16000
14000
12000
10000
8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

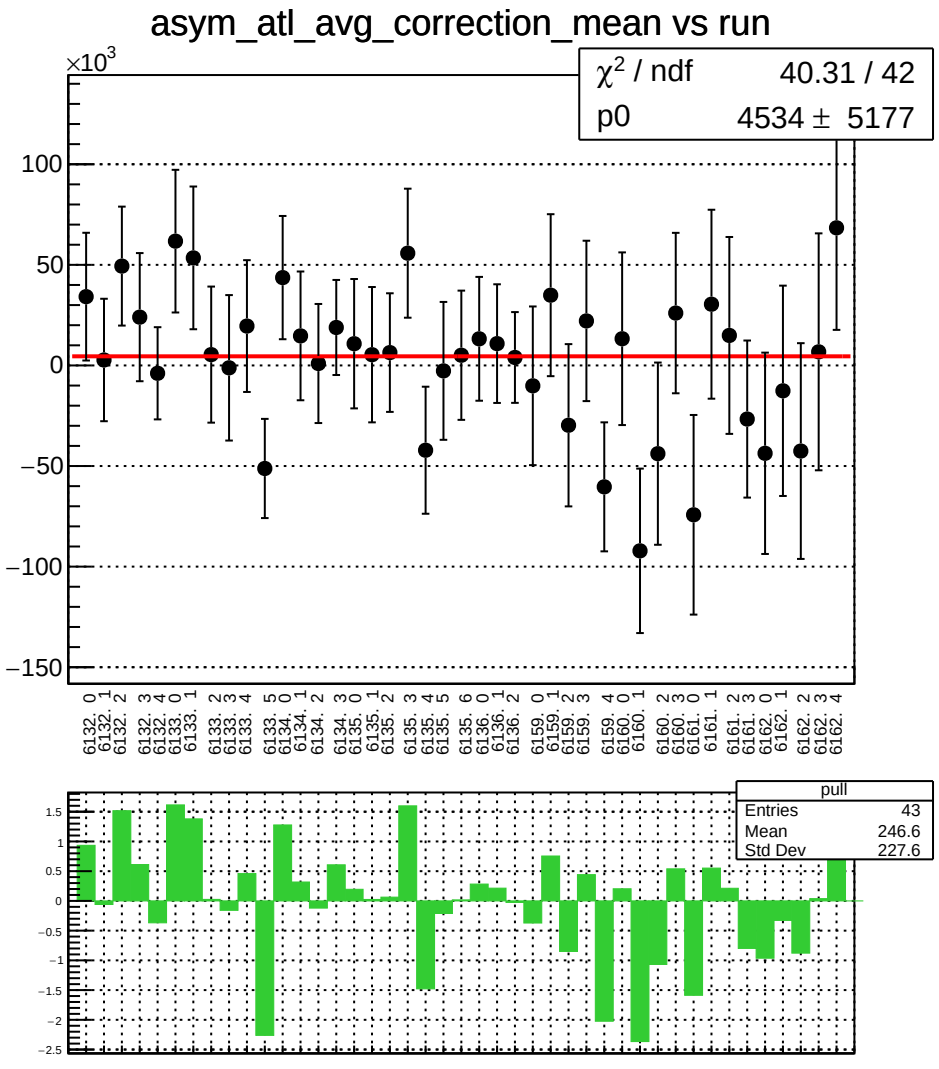

asym_atr2_mean vs run
×10^3
χ² / ndf 43.45 / 42
p0 −1.462e+04 ± 1.577e+04
400
300
200
100
0
−100
−200
−300
−400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 871.2
Std Dev 852.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

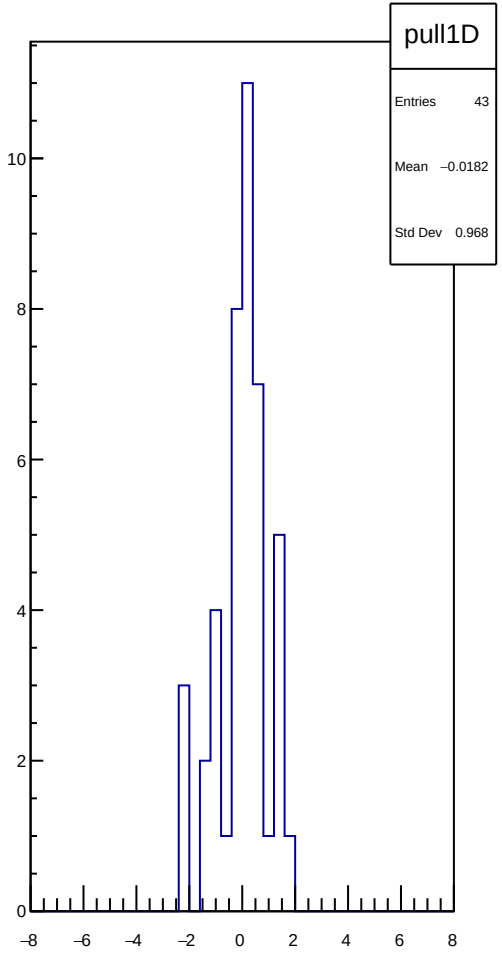

pull1D
Entries 43
Mean 0.004556
Std Dev 1.005
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

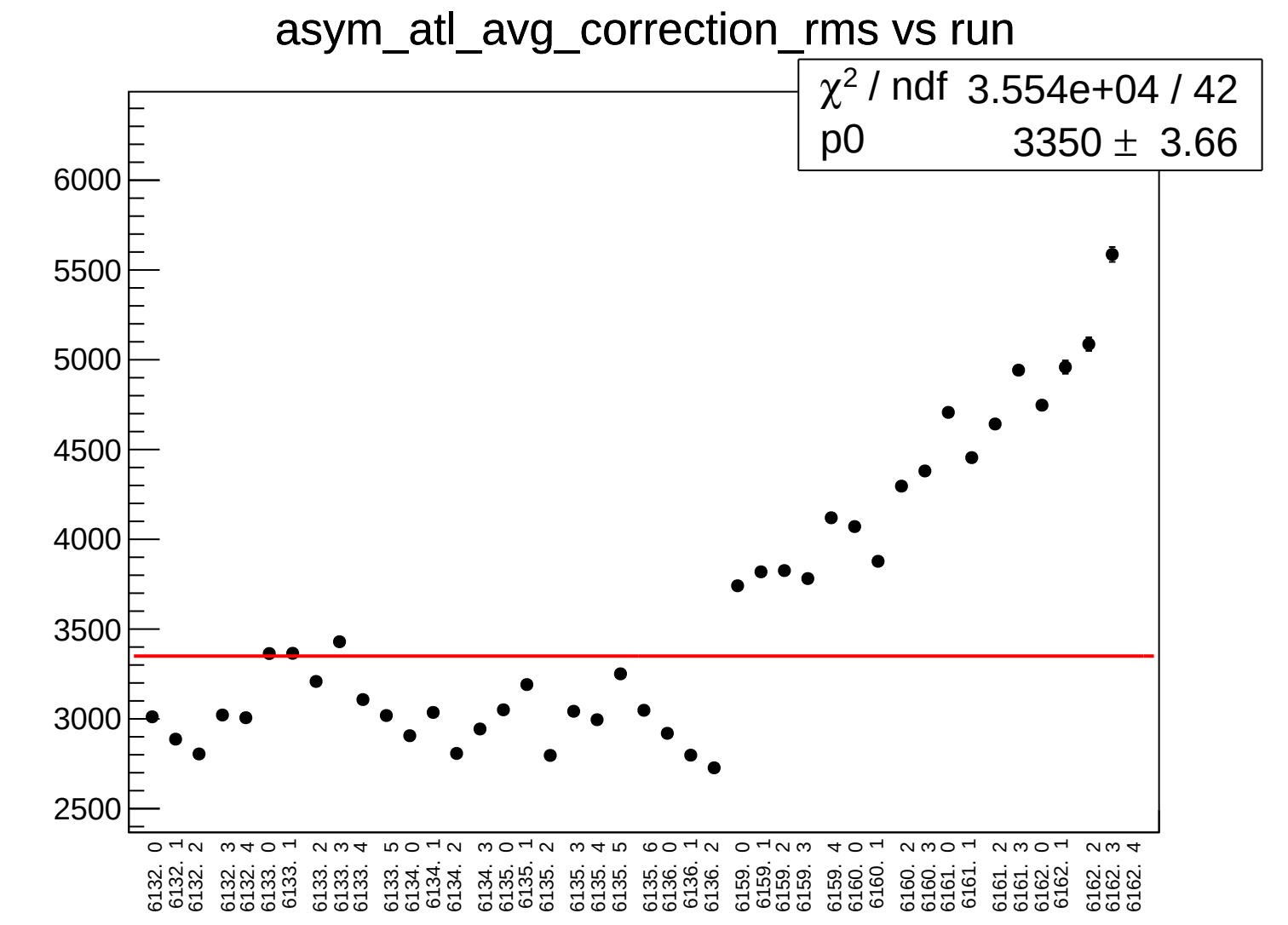

asym_atr2_rms vs run
χ² / ndf 3.283e+04 / 42
p0 1.022e+04 ± 11.15
18000
16000
14000
12000
10000
8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

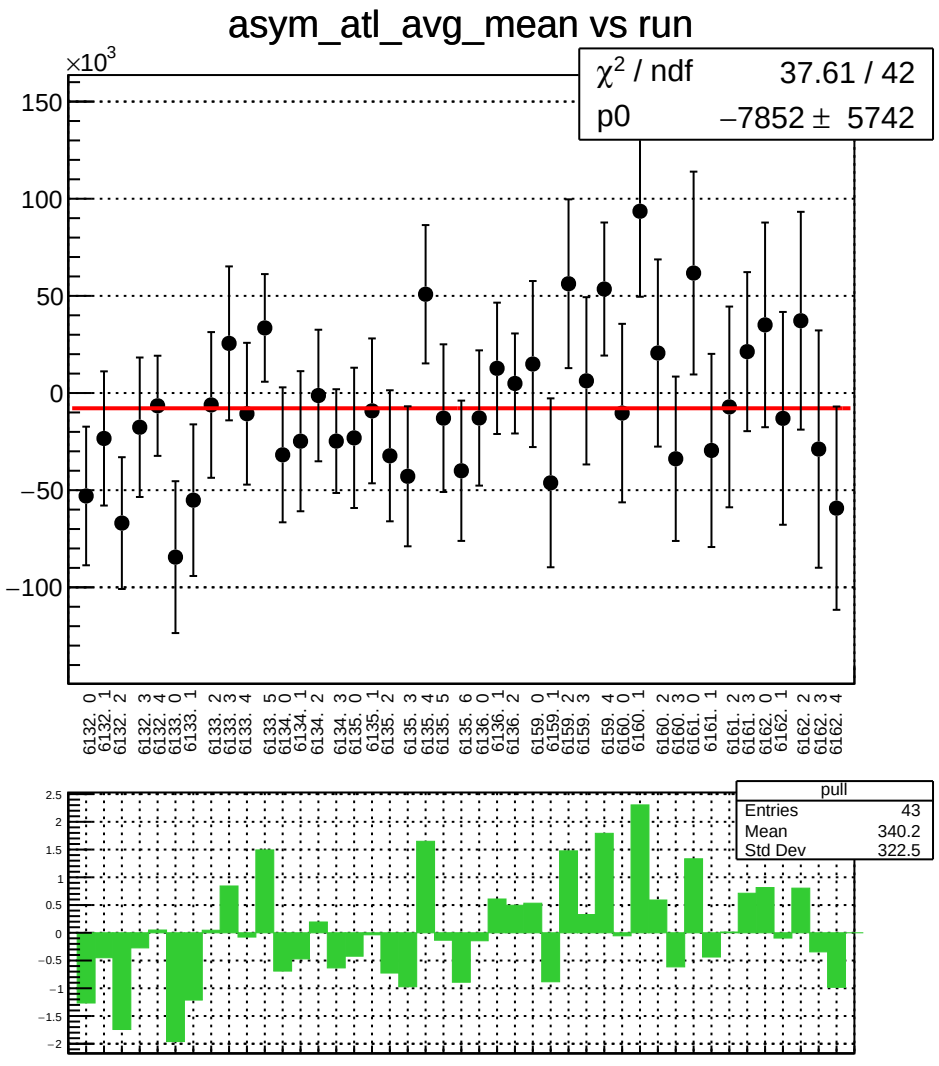

reg_asym_atl_avg_mean vs run
χ² / ndf 37.12 / 42
p0 −3788 ± 2345
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 380.3
Std Dev 376.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.002556
Std Dev 0.9291
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

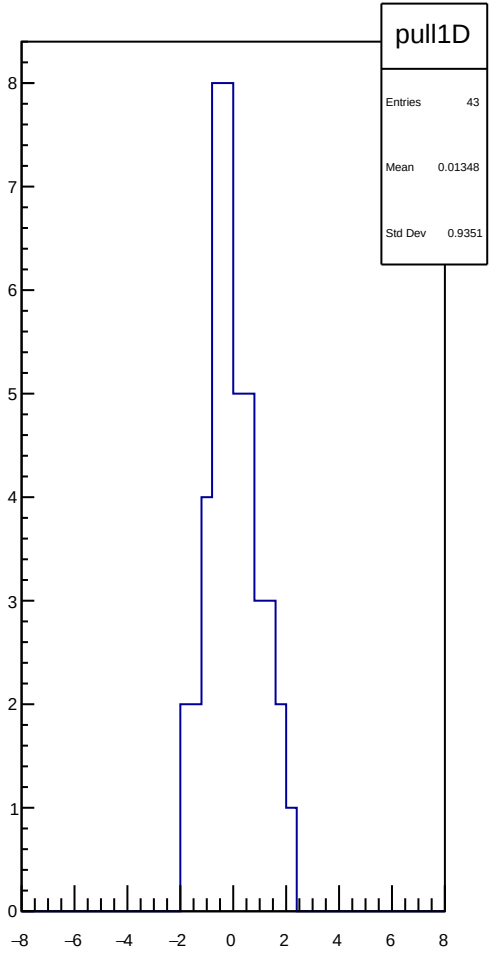

reg_asym_atl_avg_rms vs run
χ² / ndf 80.34 / 42
p0 1549 ± 1.658
1580
1560
1540
1520
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

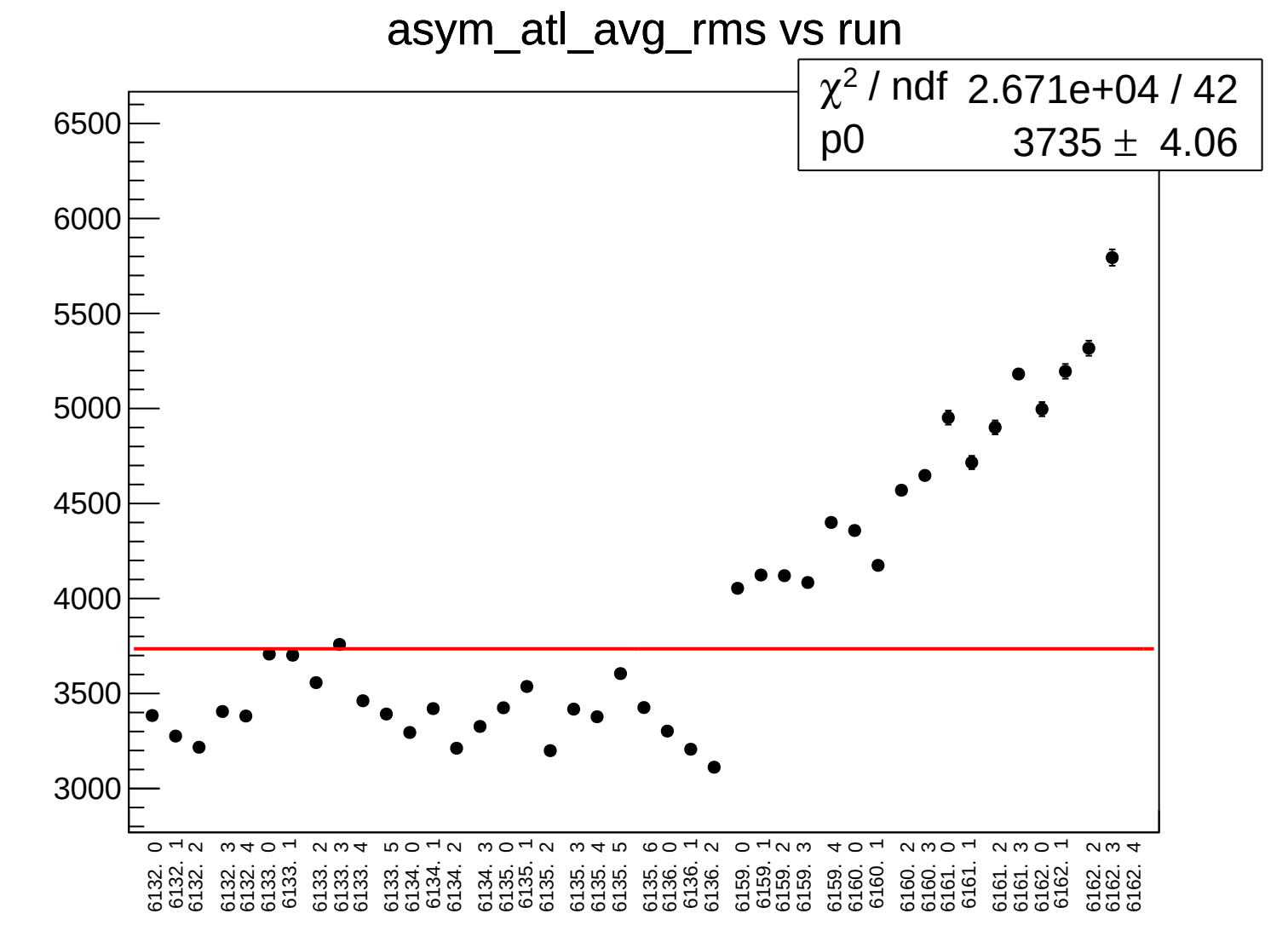

asym_atl_avg_correction_mean vs run
×10^3
χ^2 / ndf 40.31 / 42
p0 4534 ± 5177
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 246.6
Std Dev 227.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

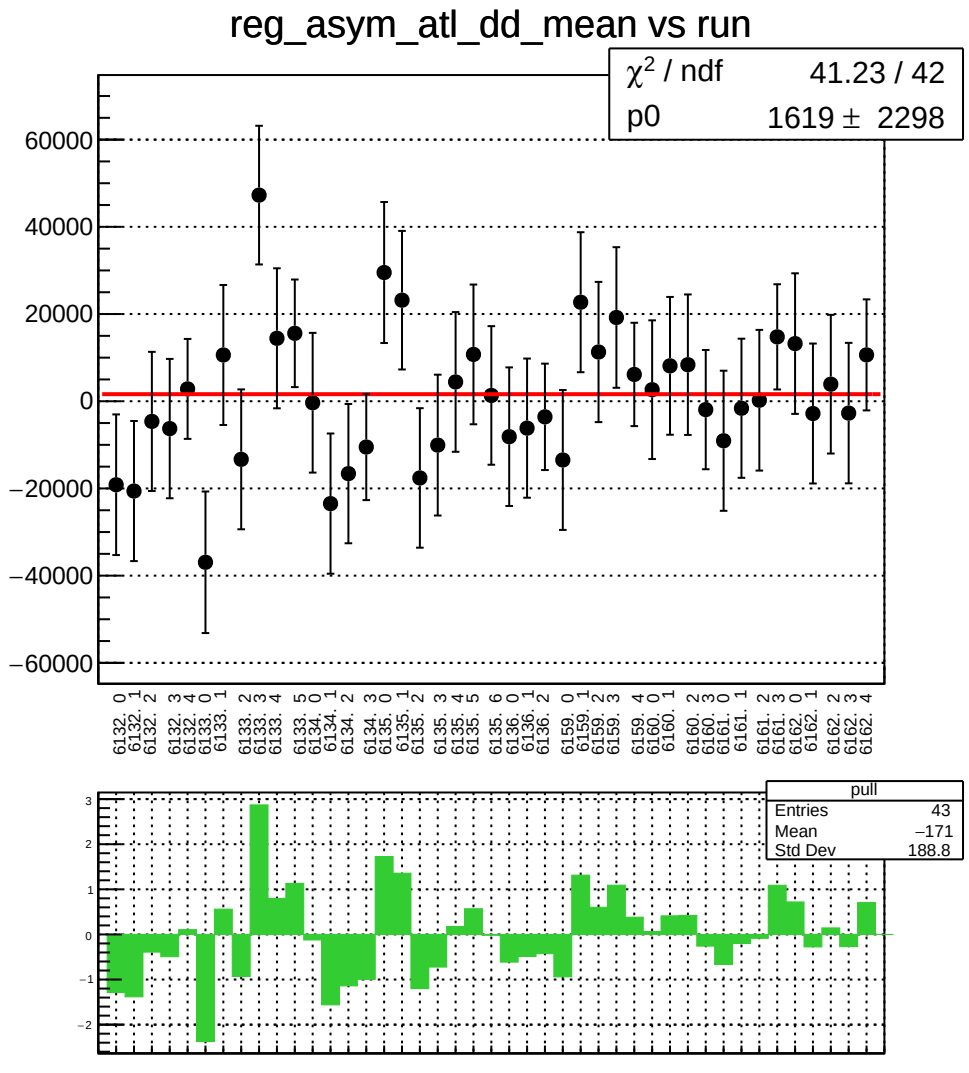

pull1D
Entries 43
Mean −0.0182
Std Dev 0.968
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

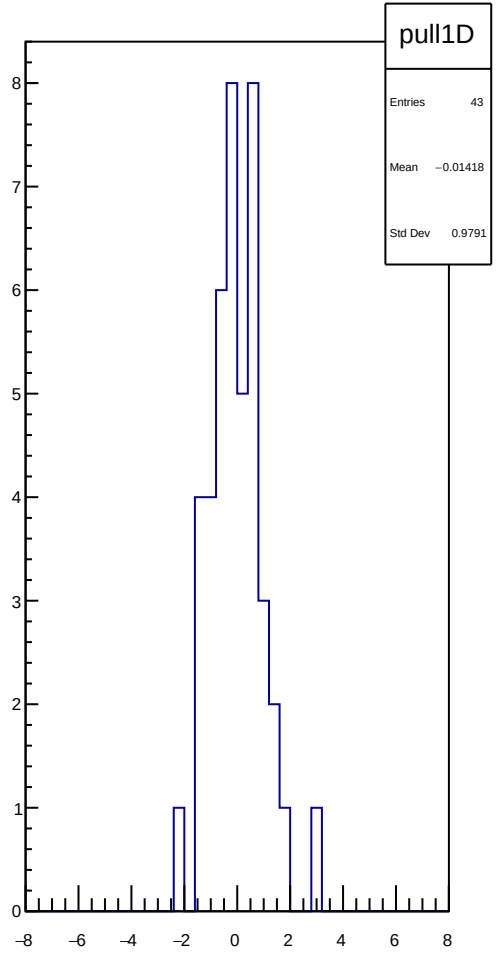

asym_atl_avg_correction_rms vs run
χ² / ndf 3.554e+04 / 42
p0 3350 ± 3.66
6000
5500
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

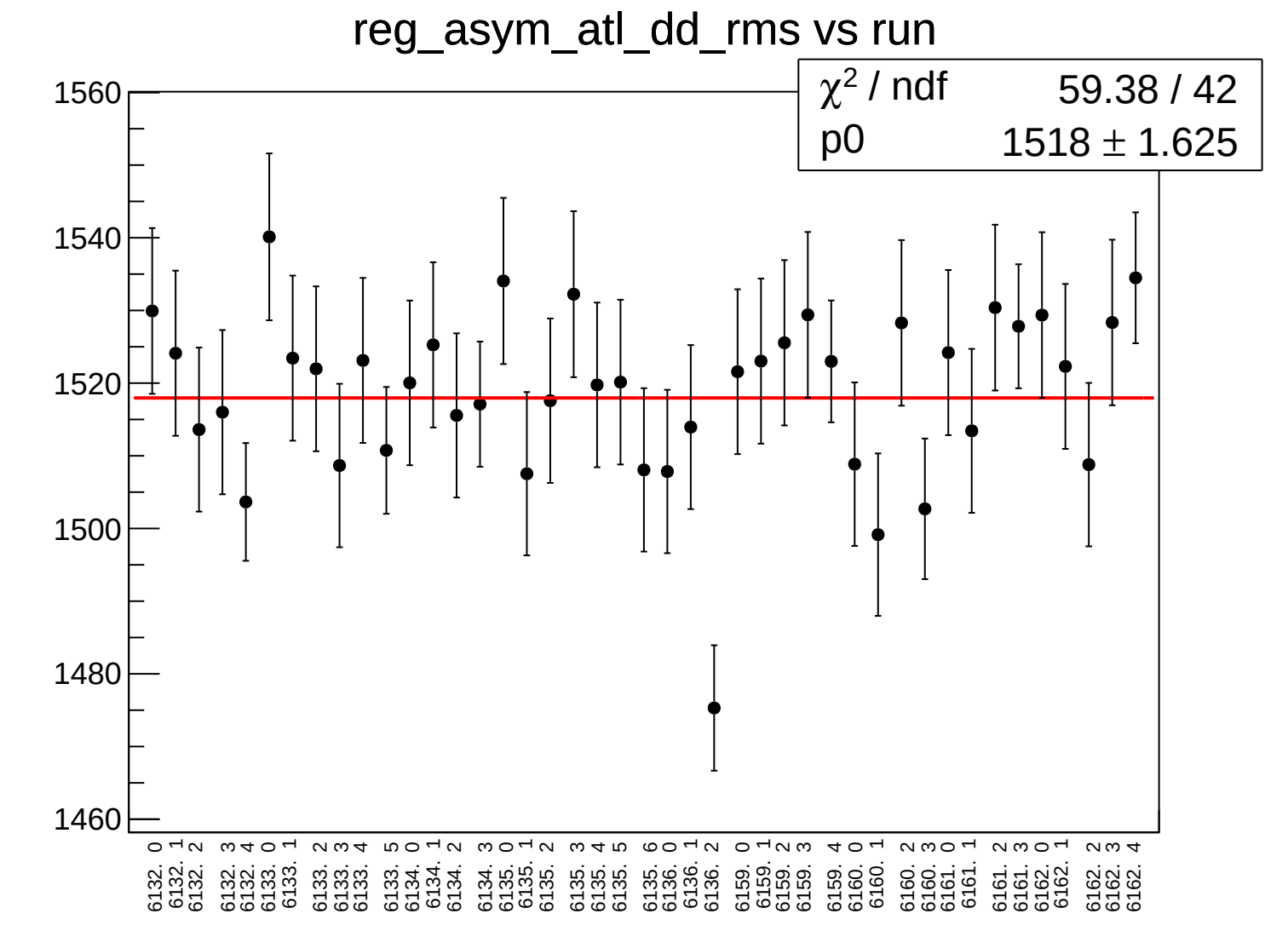

asym_atl_avg_mean vs run
×10^3
χ² / ndf 37.61 / 42
p0 −7852 ± 5742
150
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 340.2
Std Dev 322.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

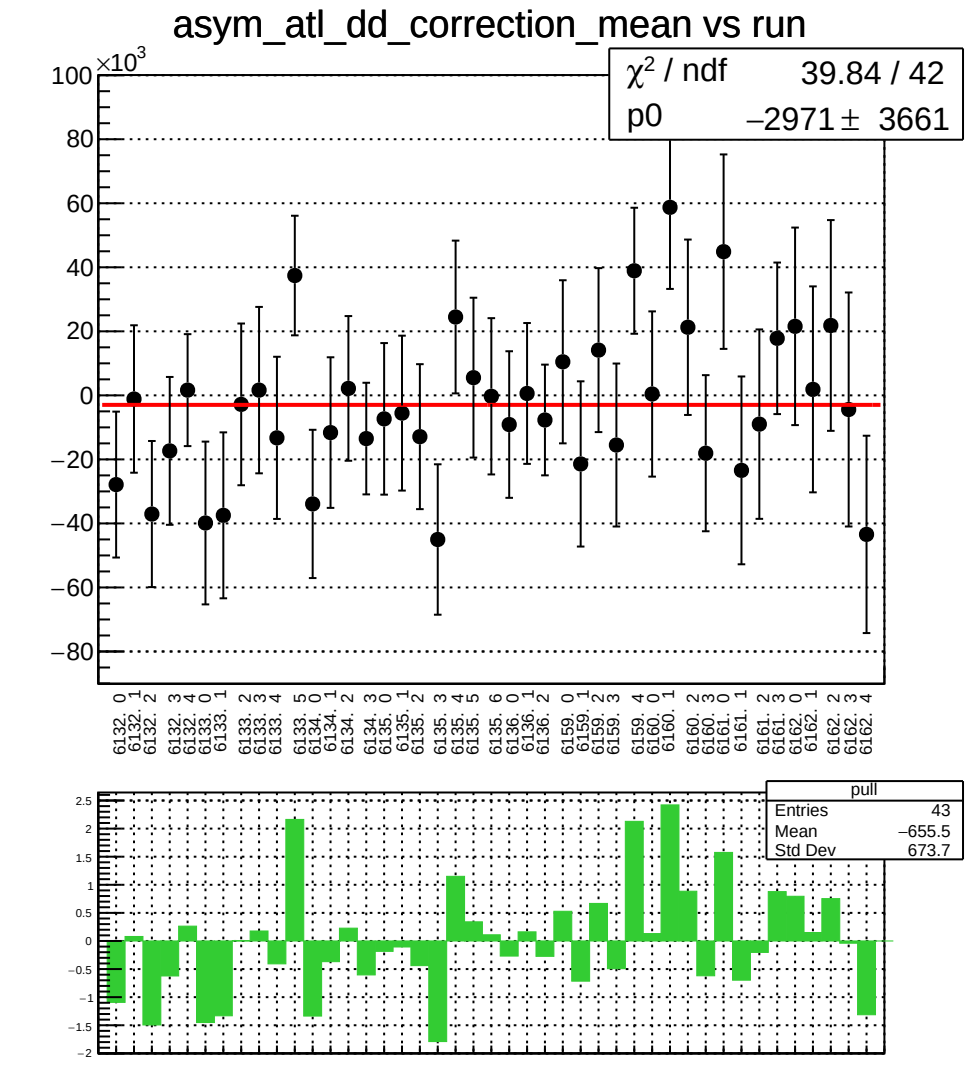

pull1D
Entries 43
Mean 0.01348
Std Dev 0.9351
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

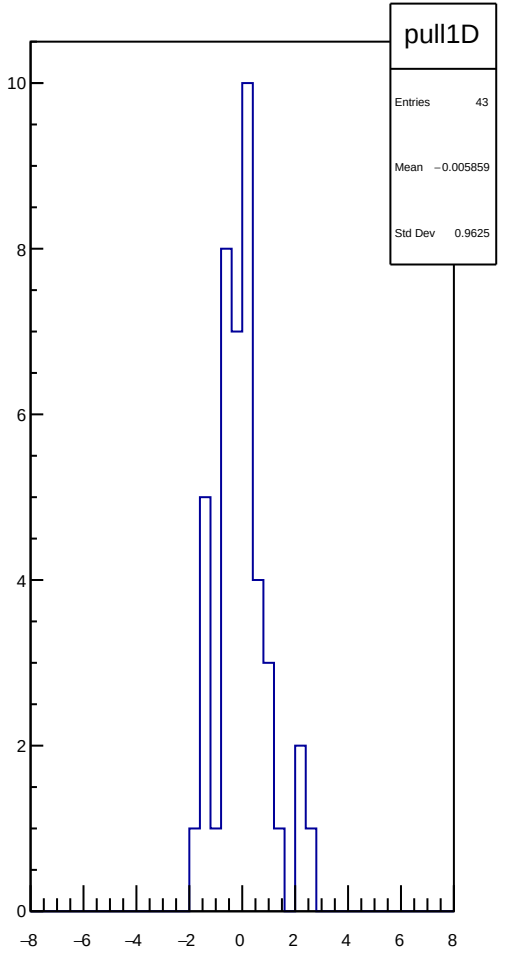

asym_atl_avg_rms vs run
χ² / ndf 2.671e+04 / 42
p0 3735 ± 4.06
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

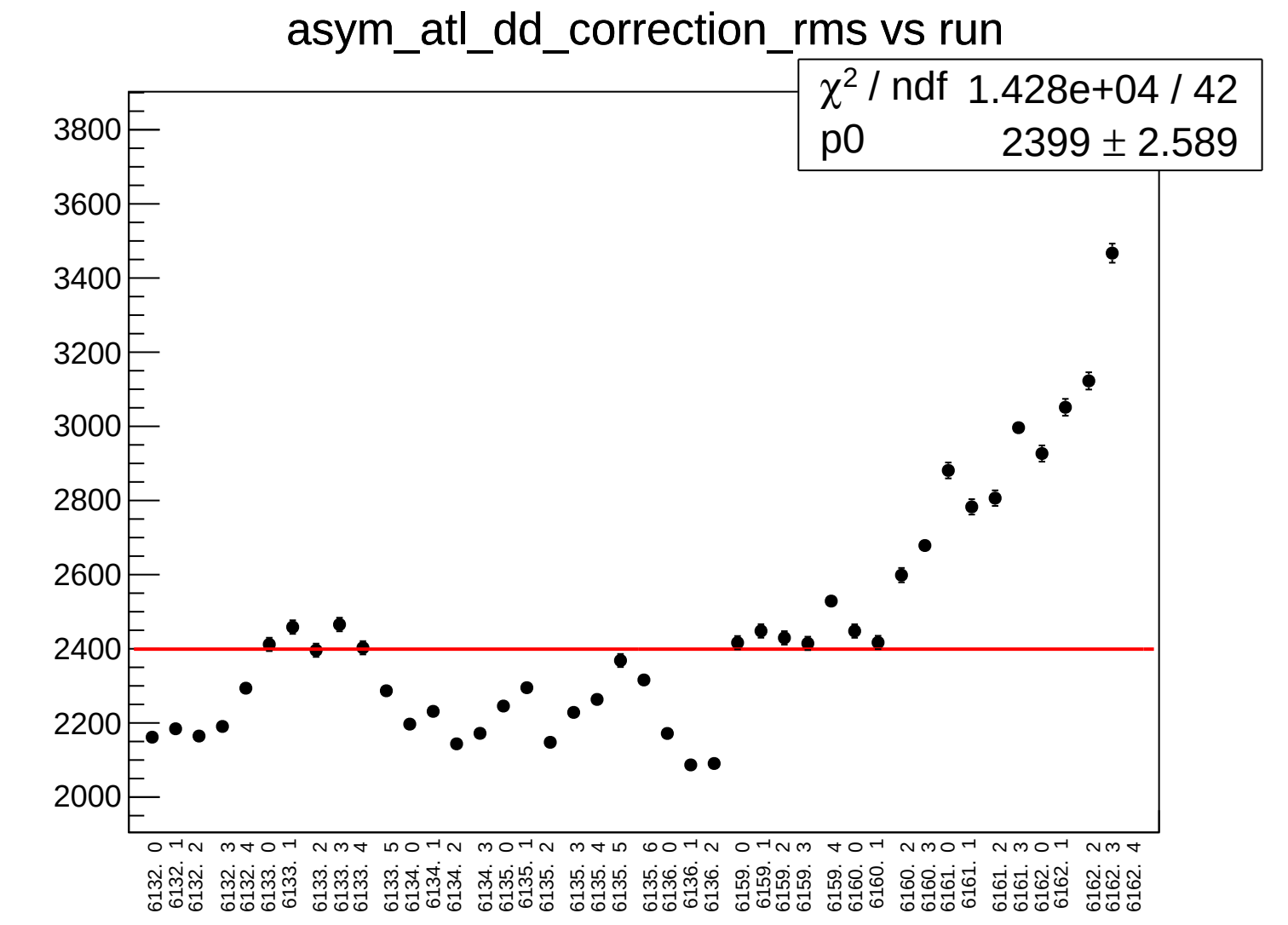

reg_asym_atl_dd_mean vs run
χ² / ndf 41.23 / 42
p0 1619 ± 2298
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −171
Std Dev 188.8
3
2
1
0
−1
−2

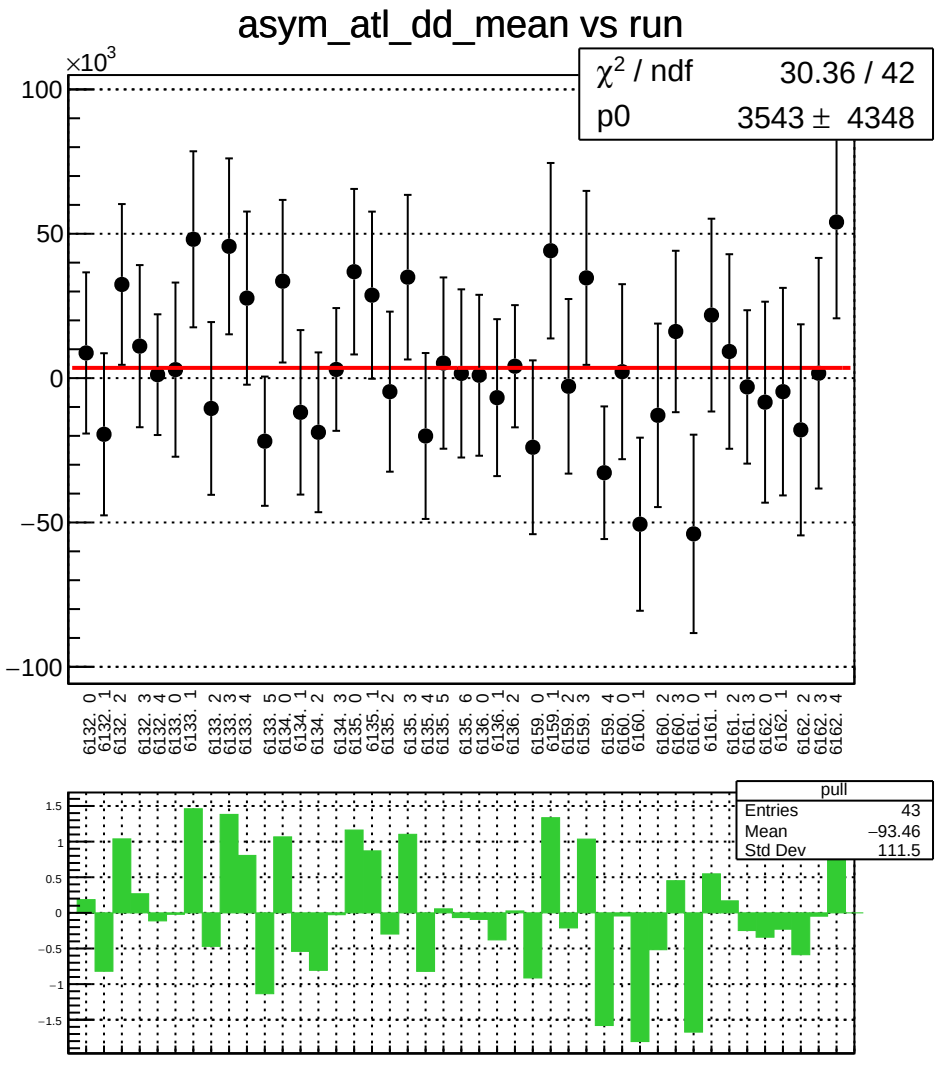


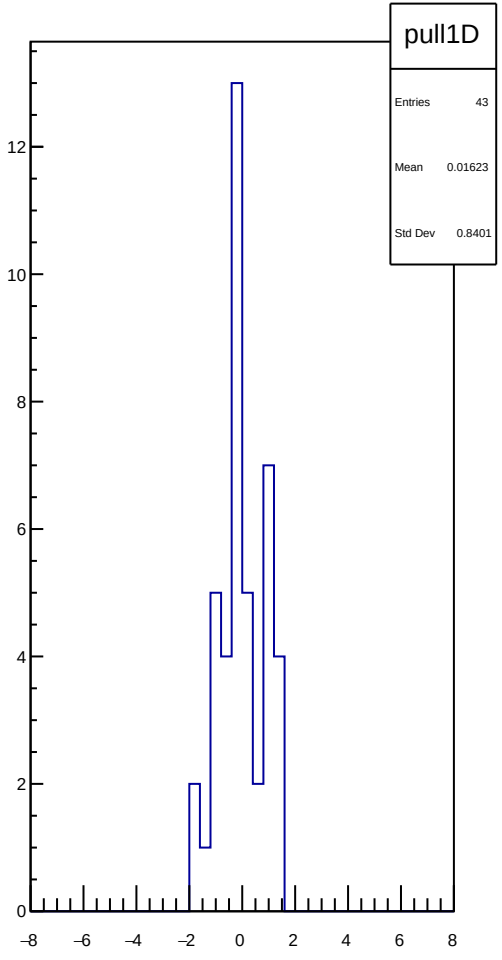

reg_asym_atl_dd_rms vs run
χ² / ndf 59.38 / 42
p0 1518 ± 1.625
1560
1540
1520
1500
1480
1460
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

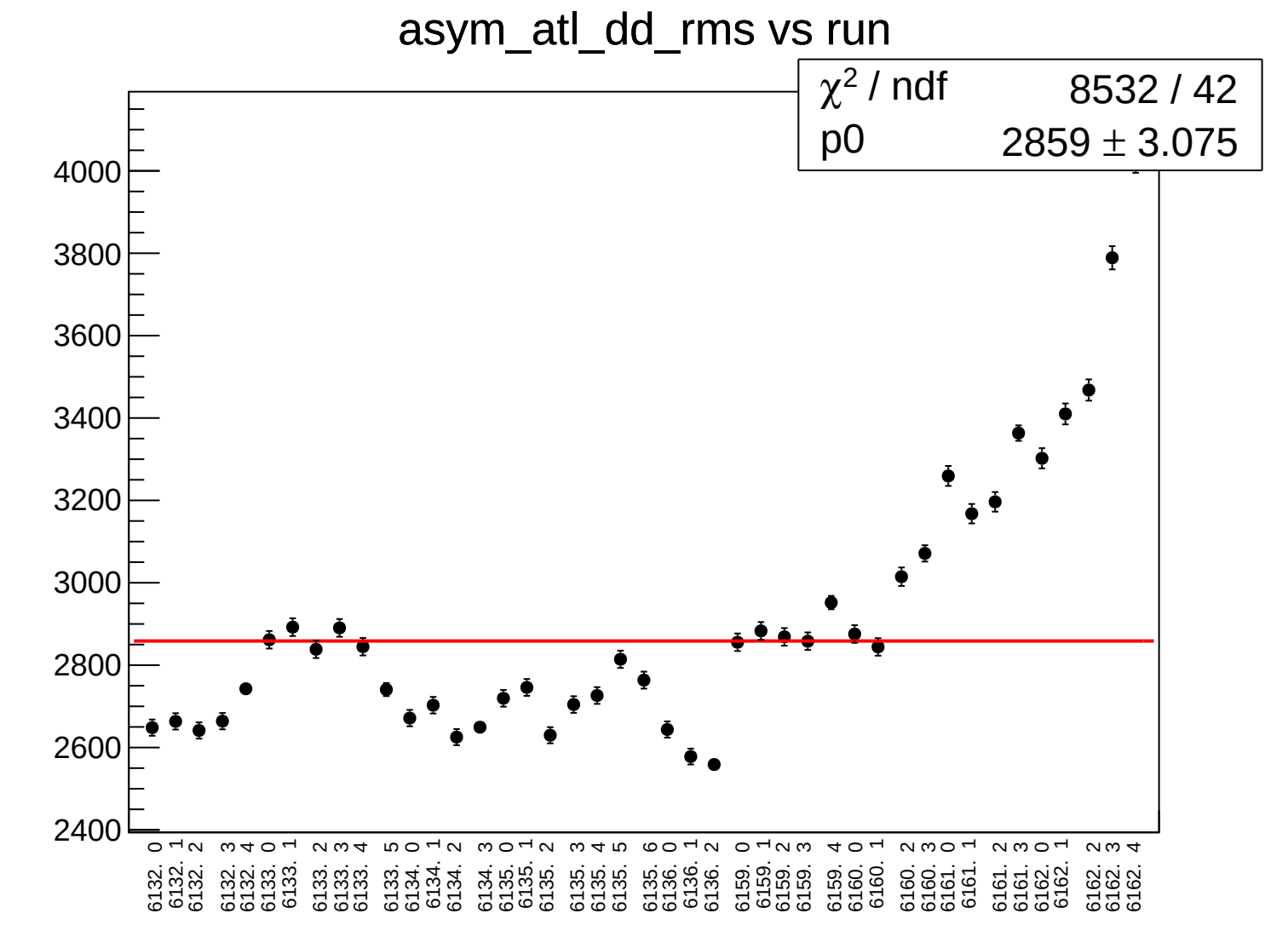

asym_atl_dd_correction_mean vs run
χ² / ndf 39.84 / 42
p0 −2971 ± 3661
×10³
pull
Entries 43
Mean −655.5
Std Dev 673.7

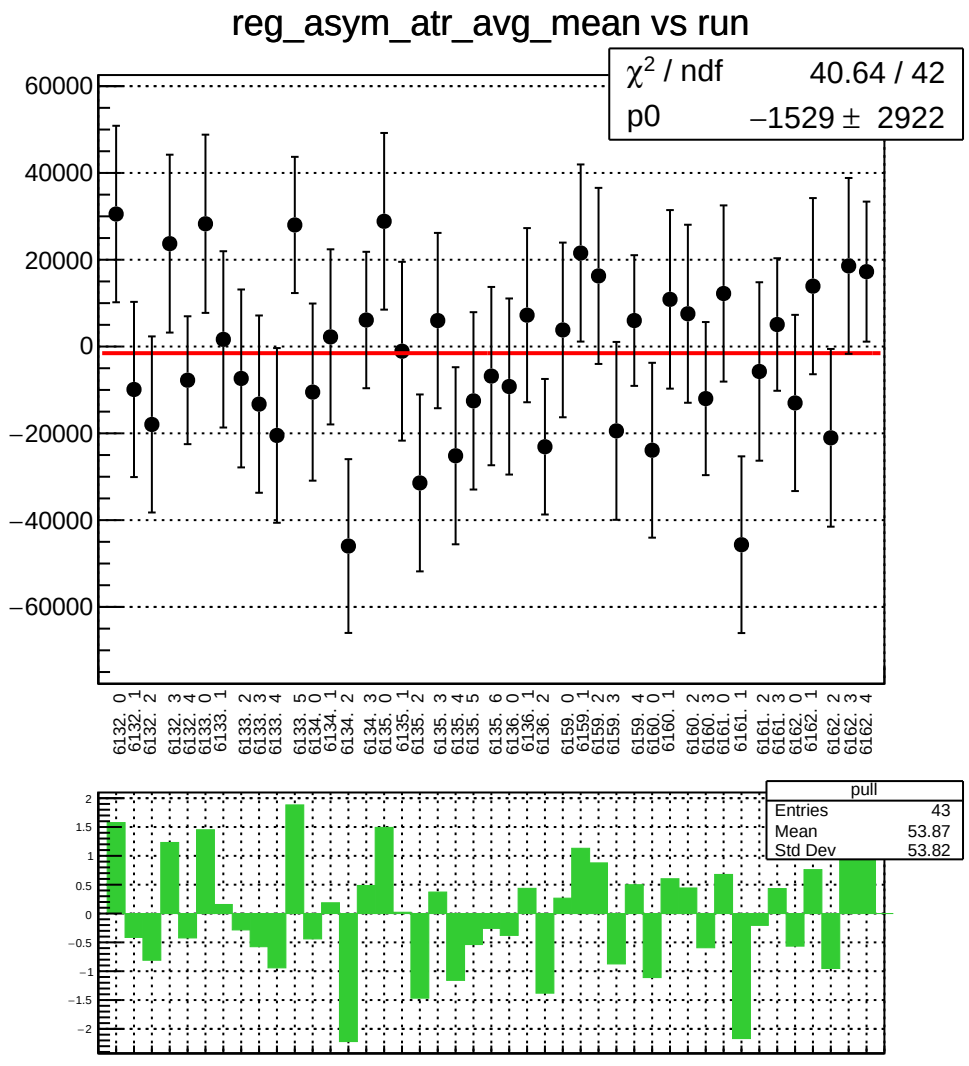

pull1D
Entries 43
Mean −0.005859
Std Dev 0.9625

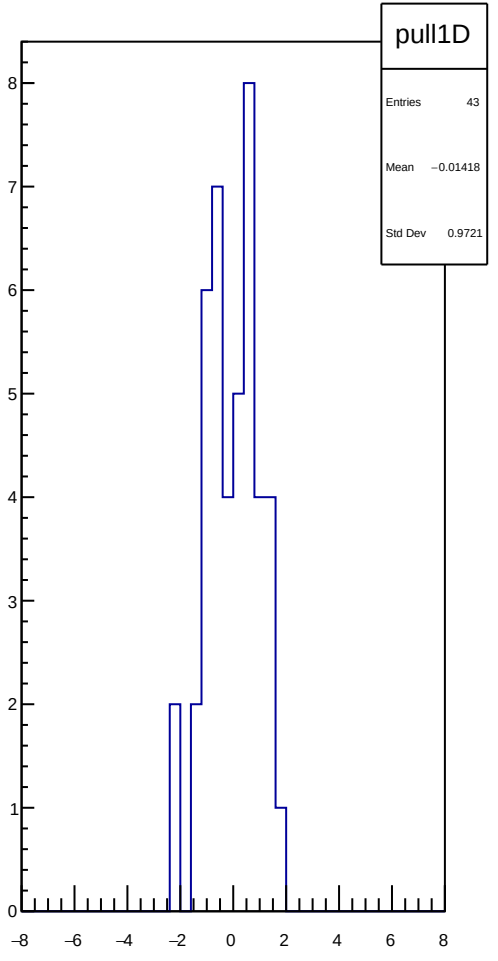

asym_atl_dd_correction_rms vs run
χ² / ndf 1.428e+04 / 42
p0 2399 ± 2.589
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

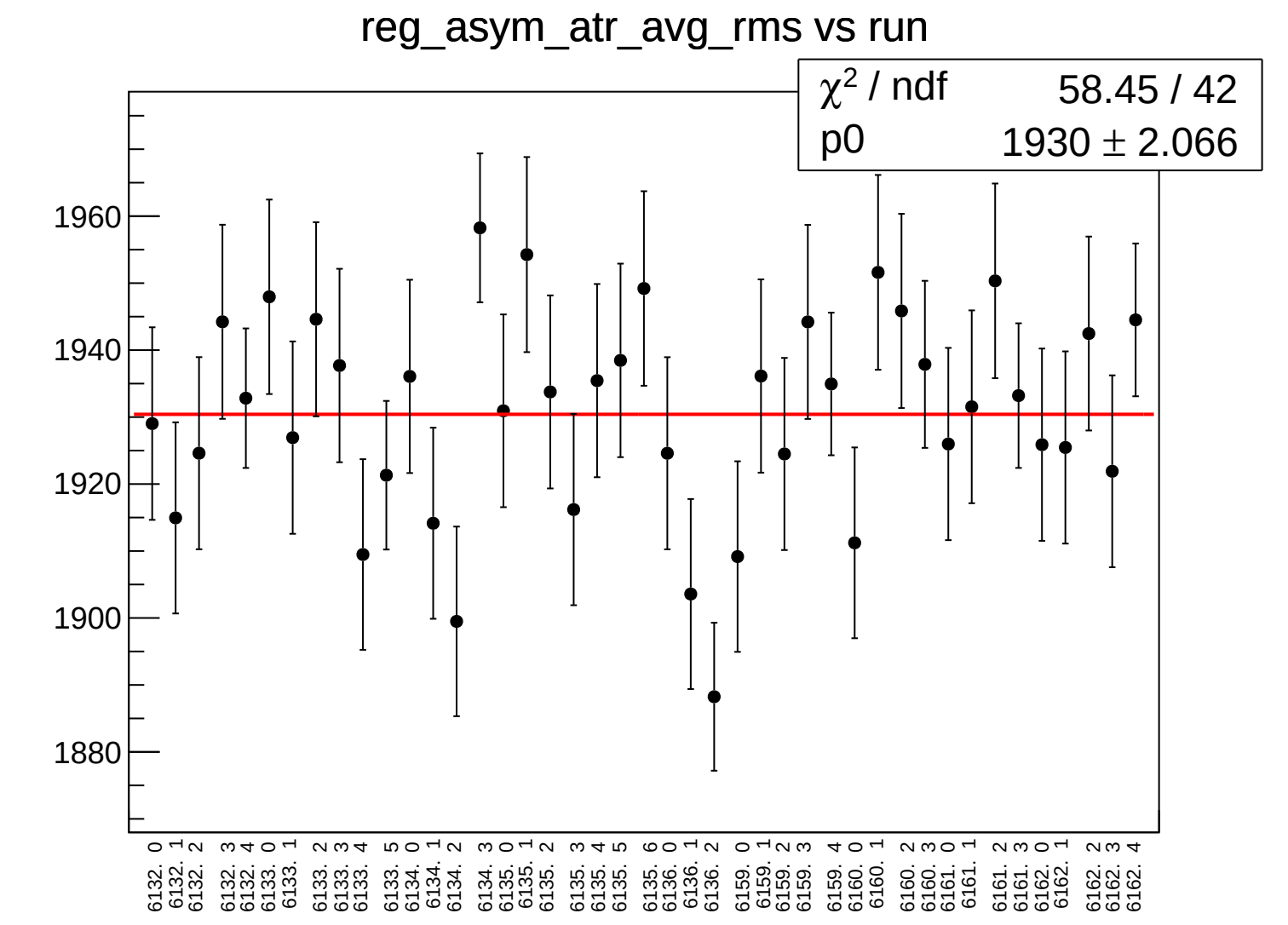

asym_atl_dd_mean vs run
×10^3
χ² / ndf 30.36 / 42
p0 3543 ± 4348
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −93.46
Std Dev 111.5
1.5
1
0.5
0
−0.5
−1
−1.5

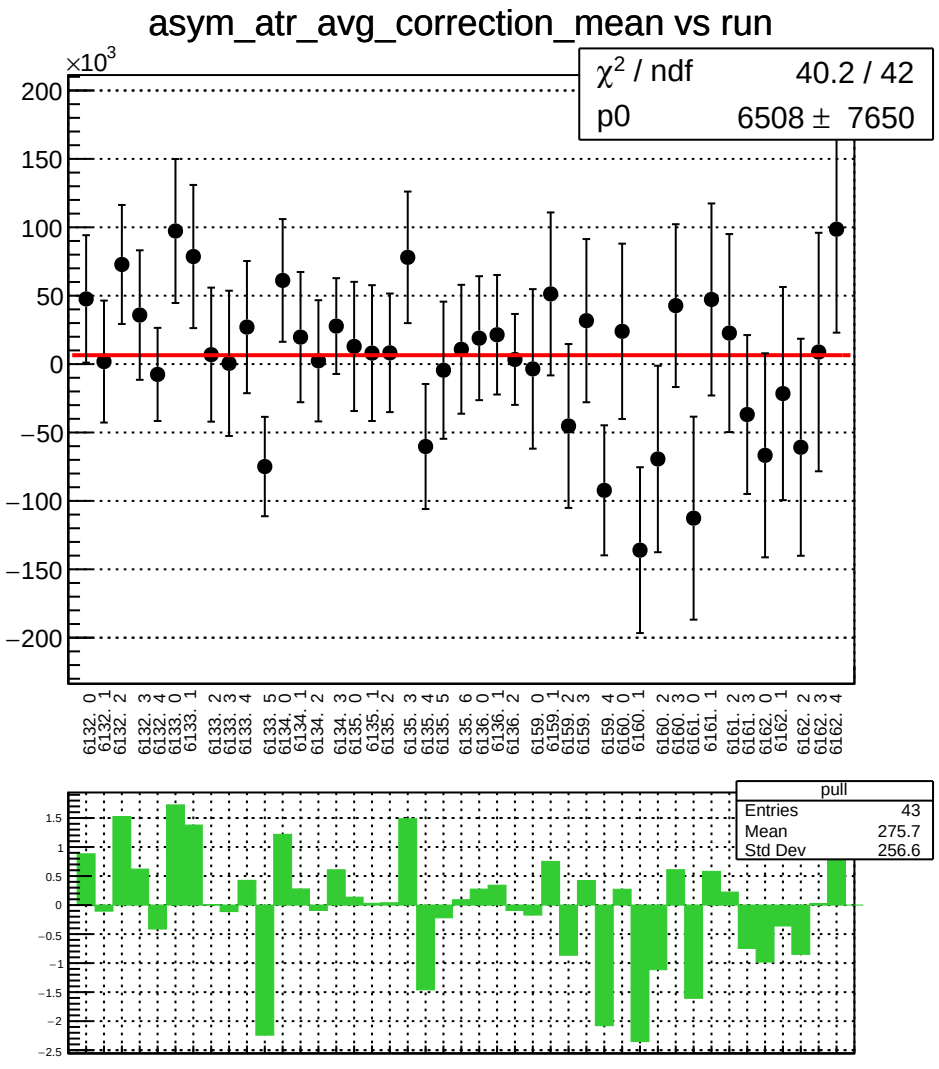

pull1D
Entries 43
Mean 0.01623
Std Dev 0.8401
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

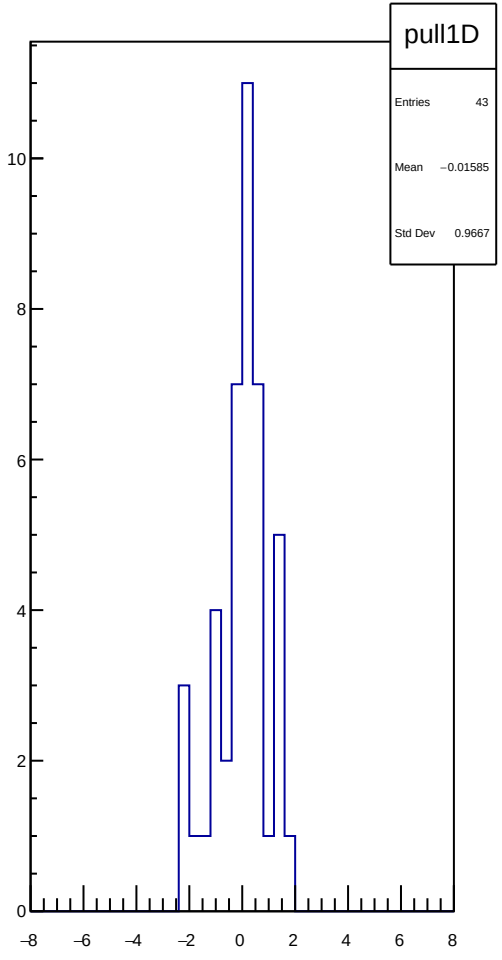

asym_atl_dd_rms vs run
χ² / ndf 8532 / 42
p0 2859 ± 3.075
4000
3800
3600
3400
3200
3000
2800
2600
2400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

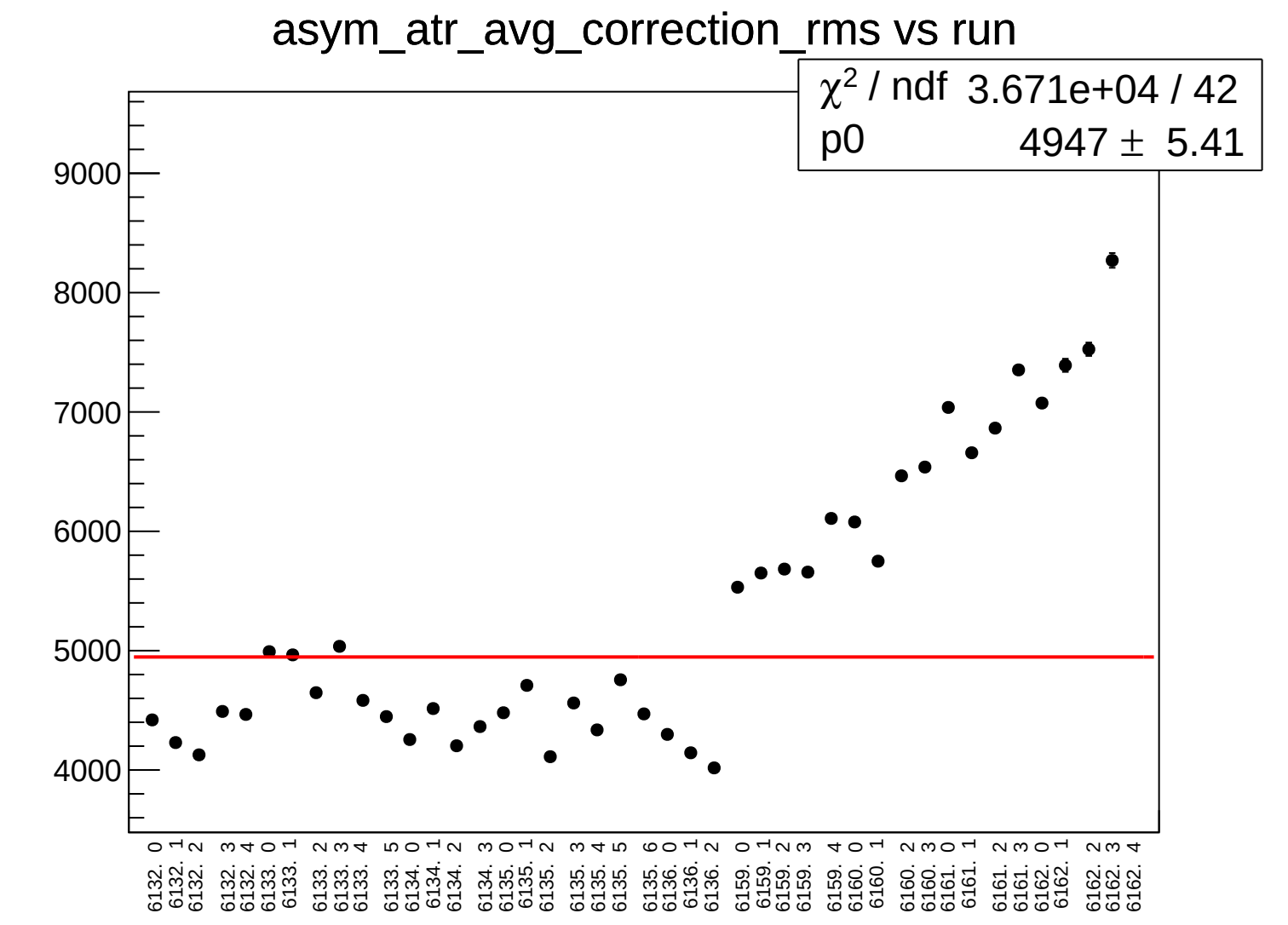

reg_asym_atr_avg_mean vs run
χ² / ndf 40.64 / 42
p0 −1529 ± 2922
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 53.87
Std Dev 53.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

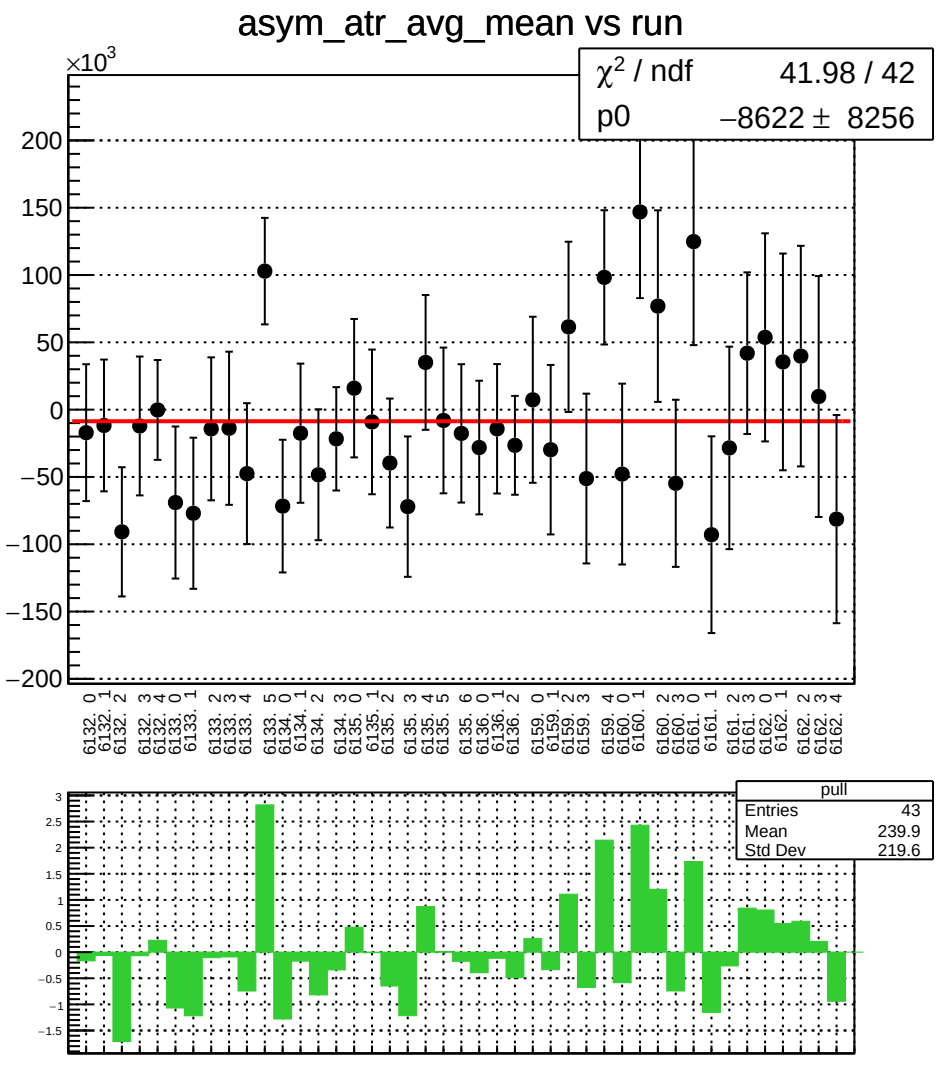

pull1D
Entries 43
Mean −0.01418
Std Dev 0.9721
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

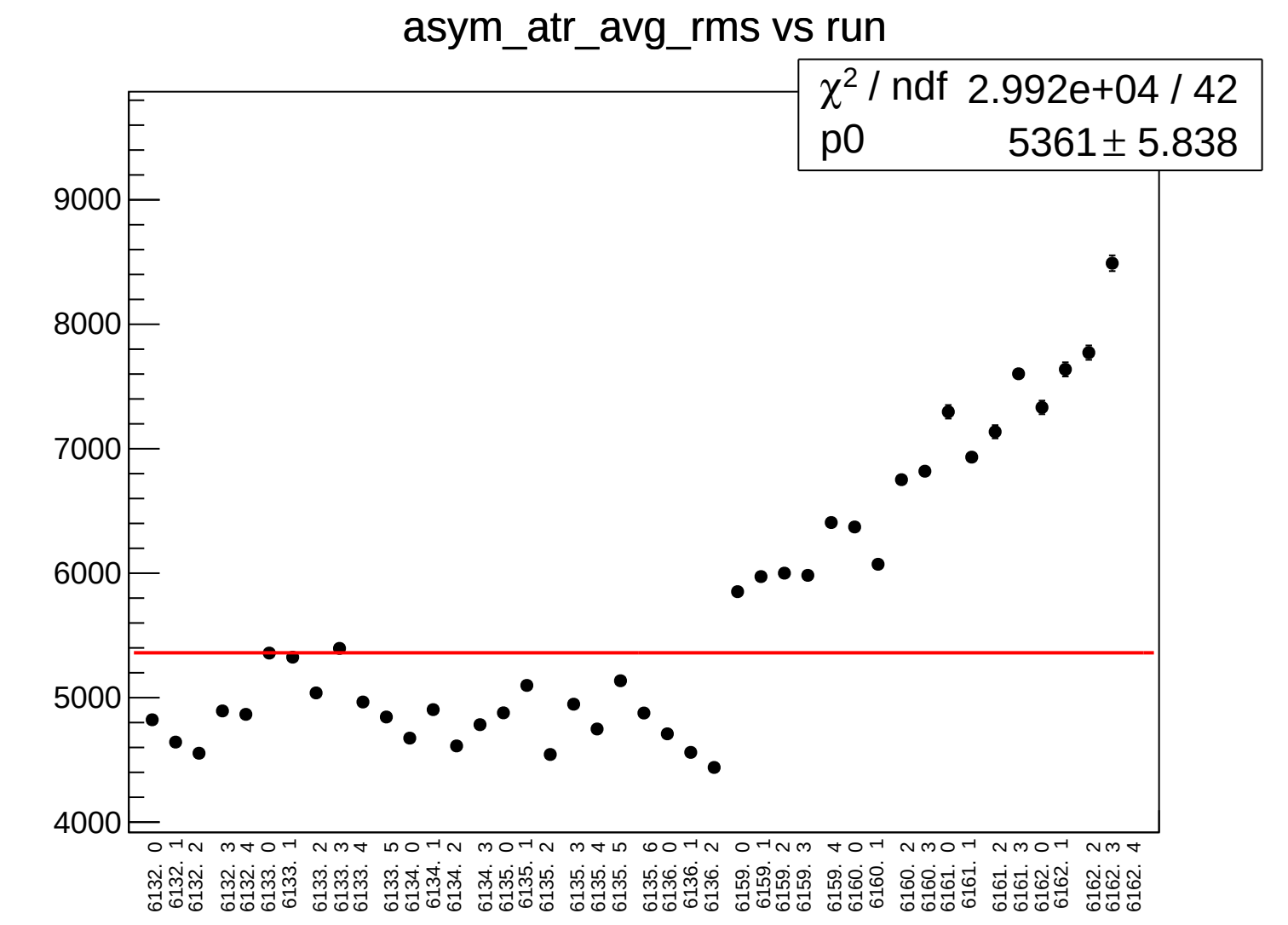

reg_asym_atr_avg_rms vs run
χ² / ndf 58.45 / 42
p0 1930 ± 2.066
1960
1940
1920
1900
1880
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

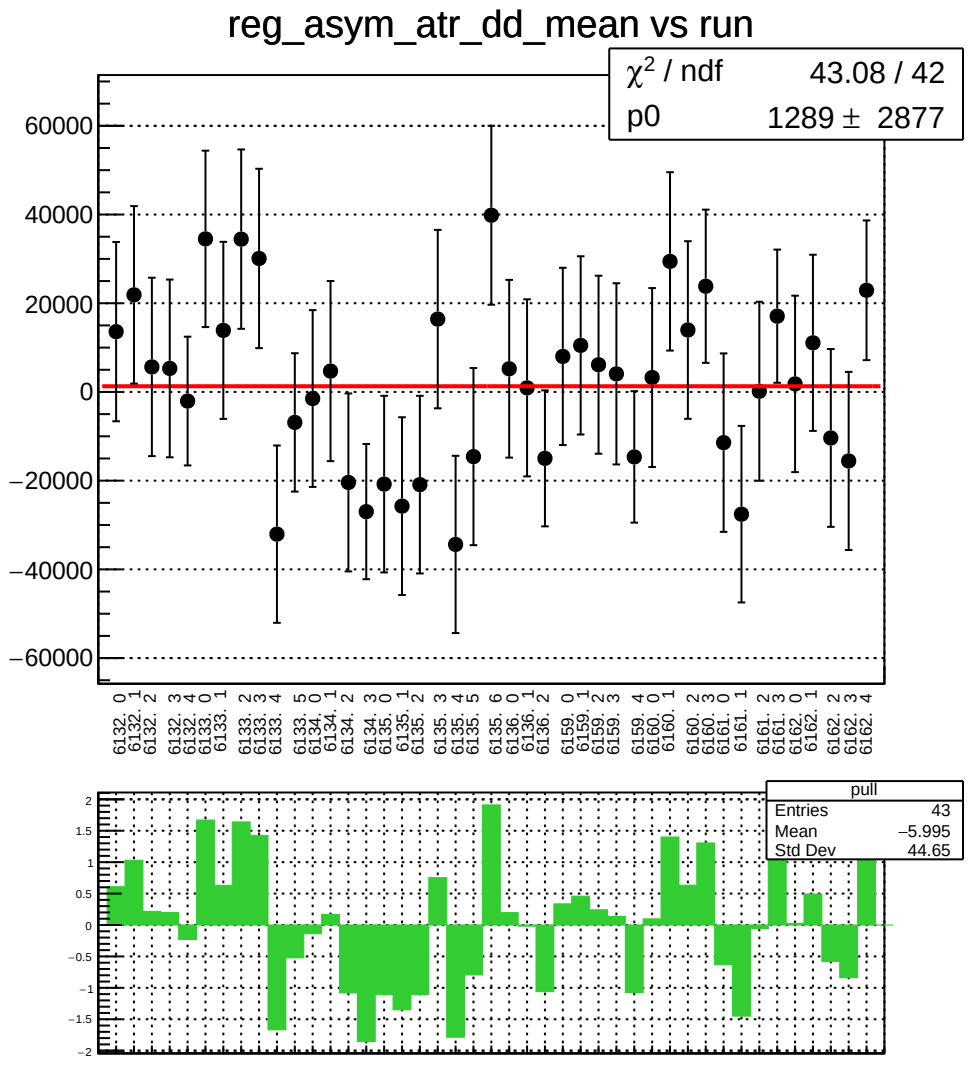

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 40.2 / 42
p0 6508 ± 7650
200
150
100
50
0
−50
−100
−150
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 275.7
Std Dev 256.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

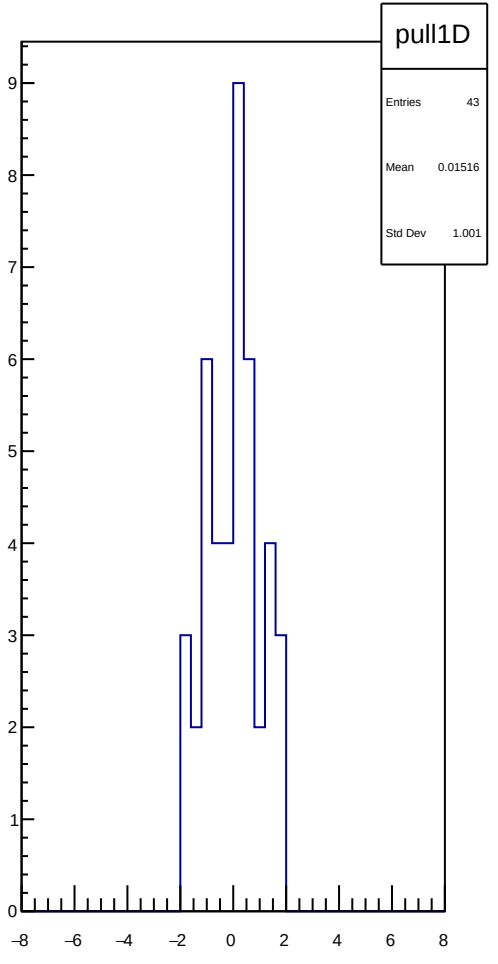

pull1D
Entries 43
Mean −0.01585
Std Dev 0.9667
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

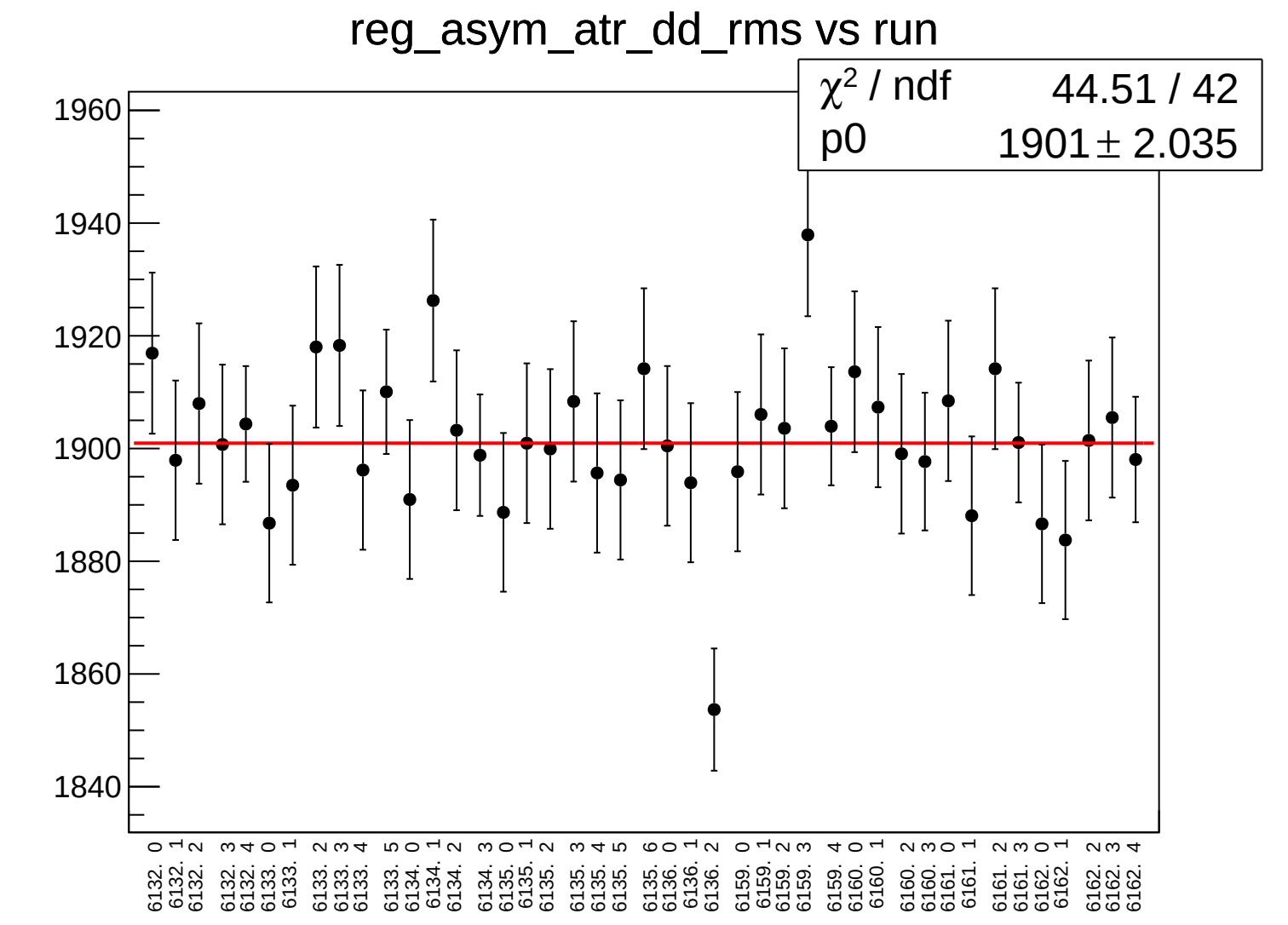

asym_atr_avg_correction_rms vs run
χ² / ndf 3.671e+04 / 42
p0 4947 ± 5.41
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

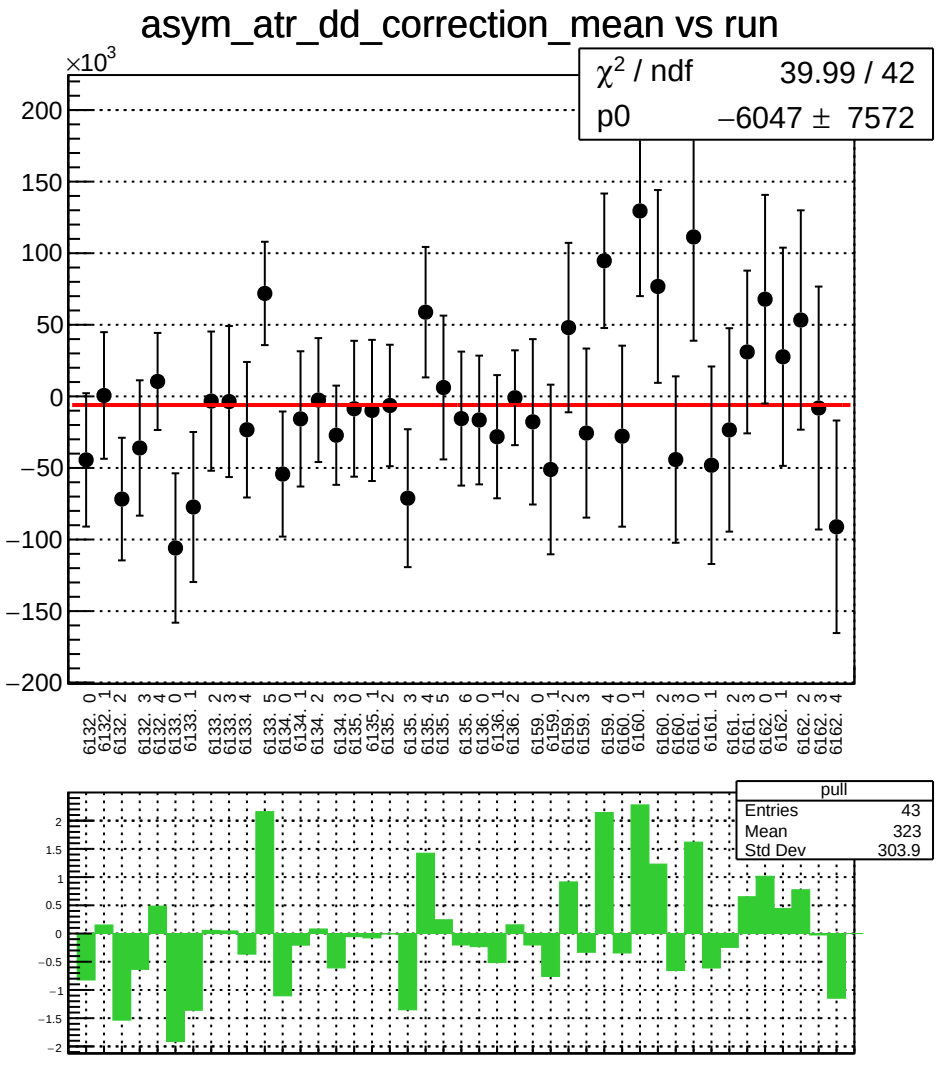

asym_atr_avg_mean vs run
×10^3
χ² / ndf 41.98 / 42
p0 −8622 ± 8256
200
150
100
50
0
−50
−100
−150
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 239.9
Std Dev 219.6
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.016
Std Dev 0.988
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

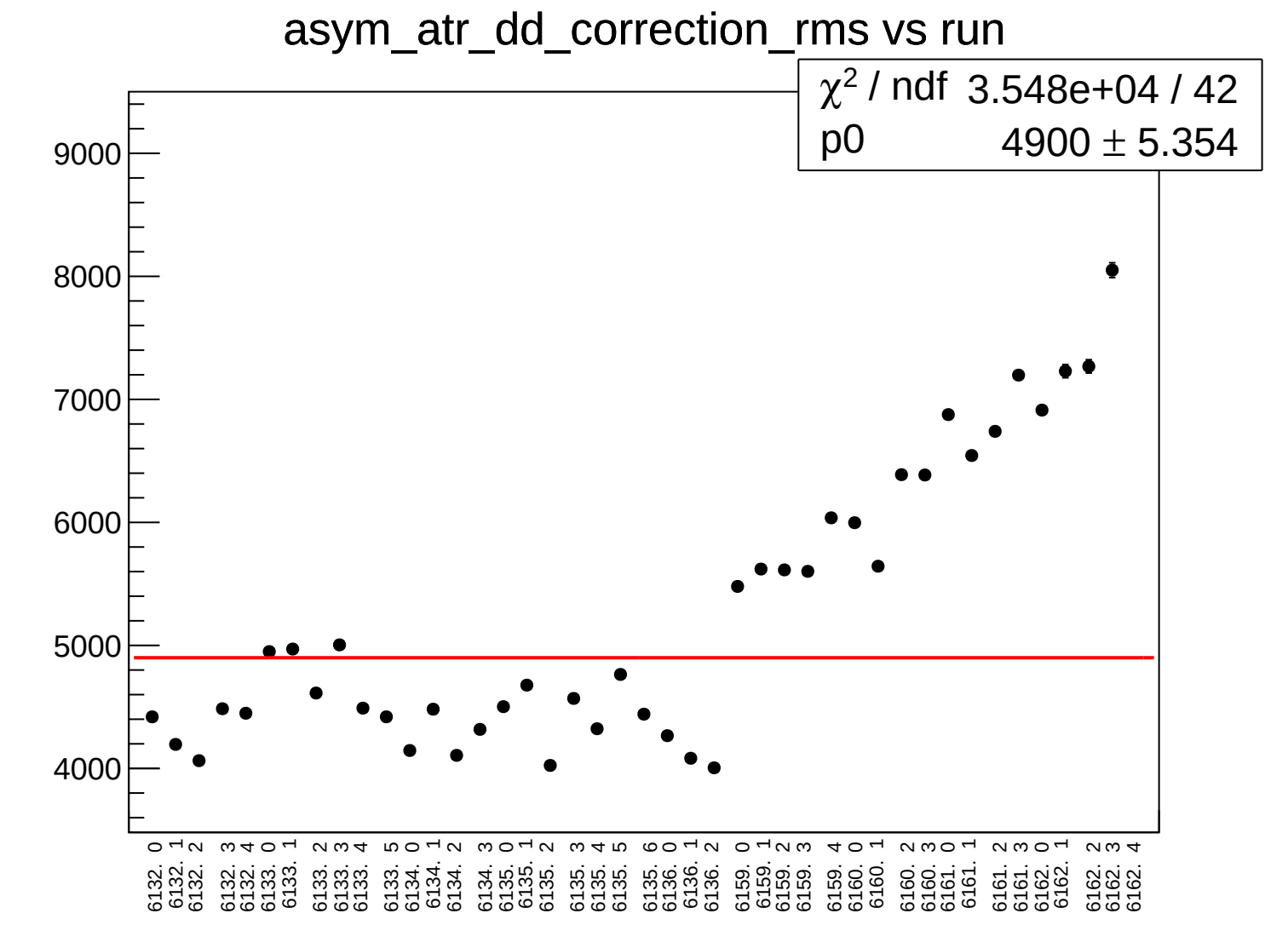

asym_atr_avg_rms vs run
χ² / ndf 2.992e+04 / 42
p0 5361 ± 5.838
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

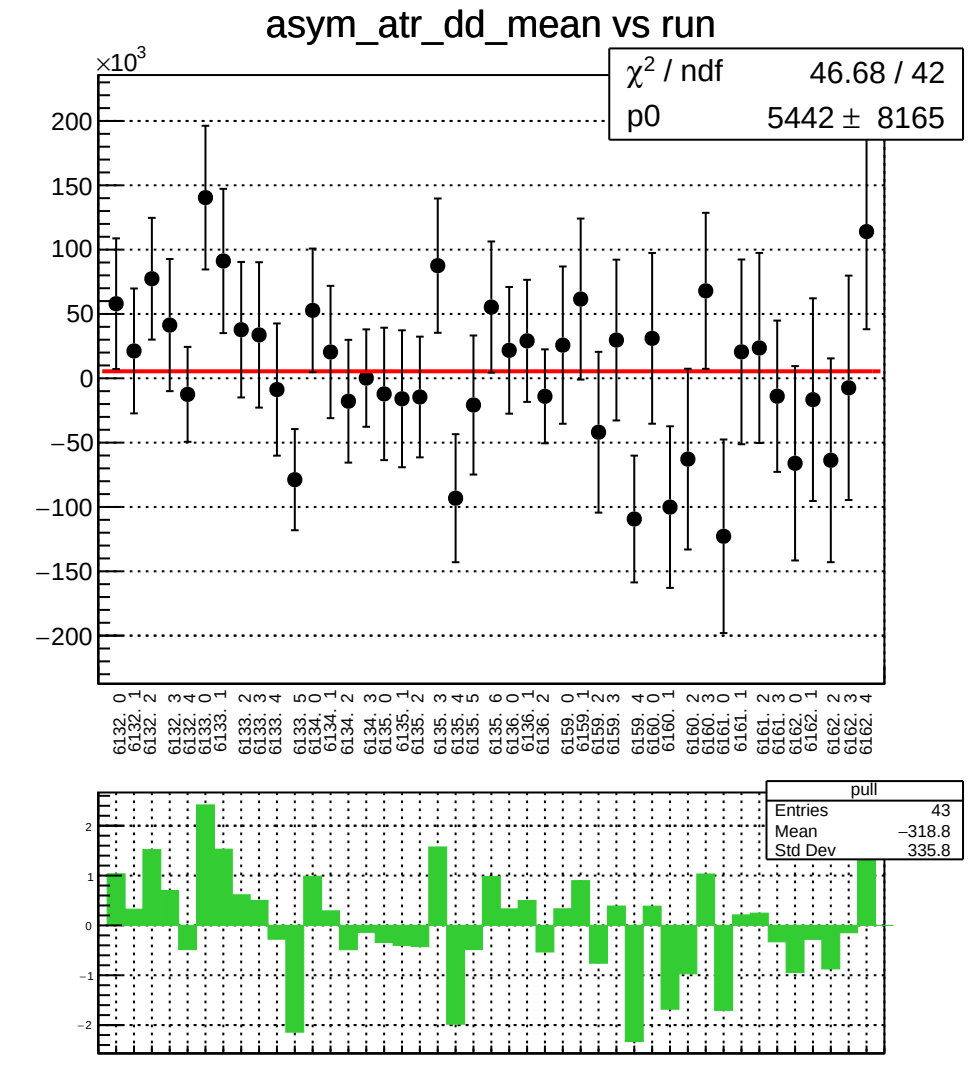

reg_asym_atr_dd_mean vs run
χ² / ndf 43.08 / 42
p0 1289 ± 2877
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −5.995
Std Dev 44.65
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

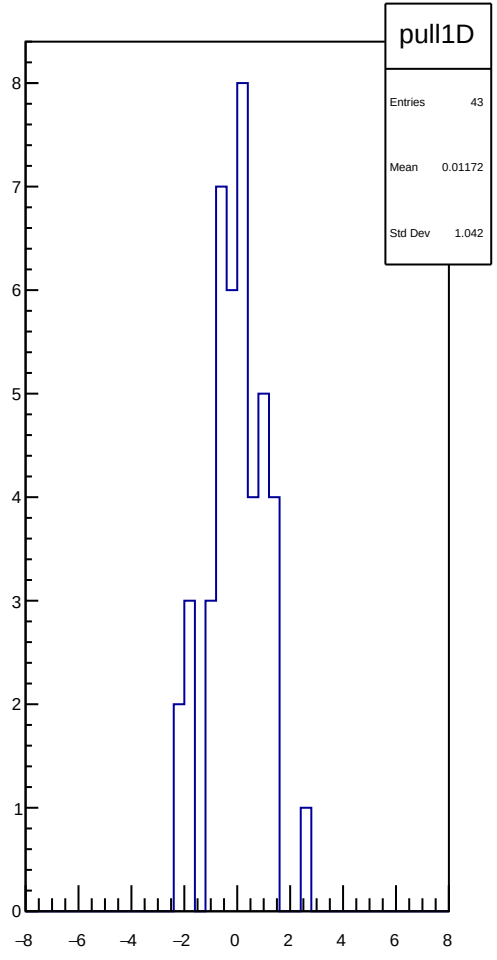

pull1D
Entries 43
Mean 0.01516
Std Dev 1.001
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

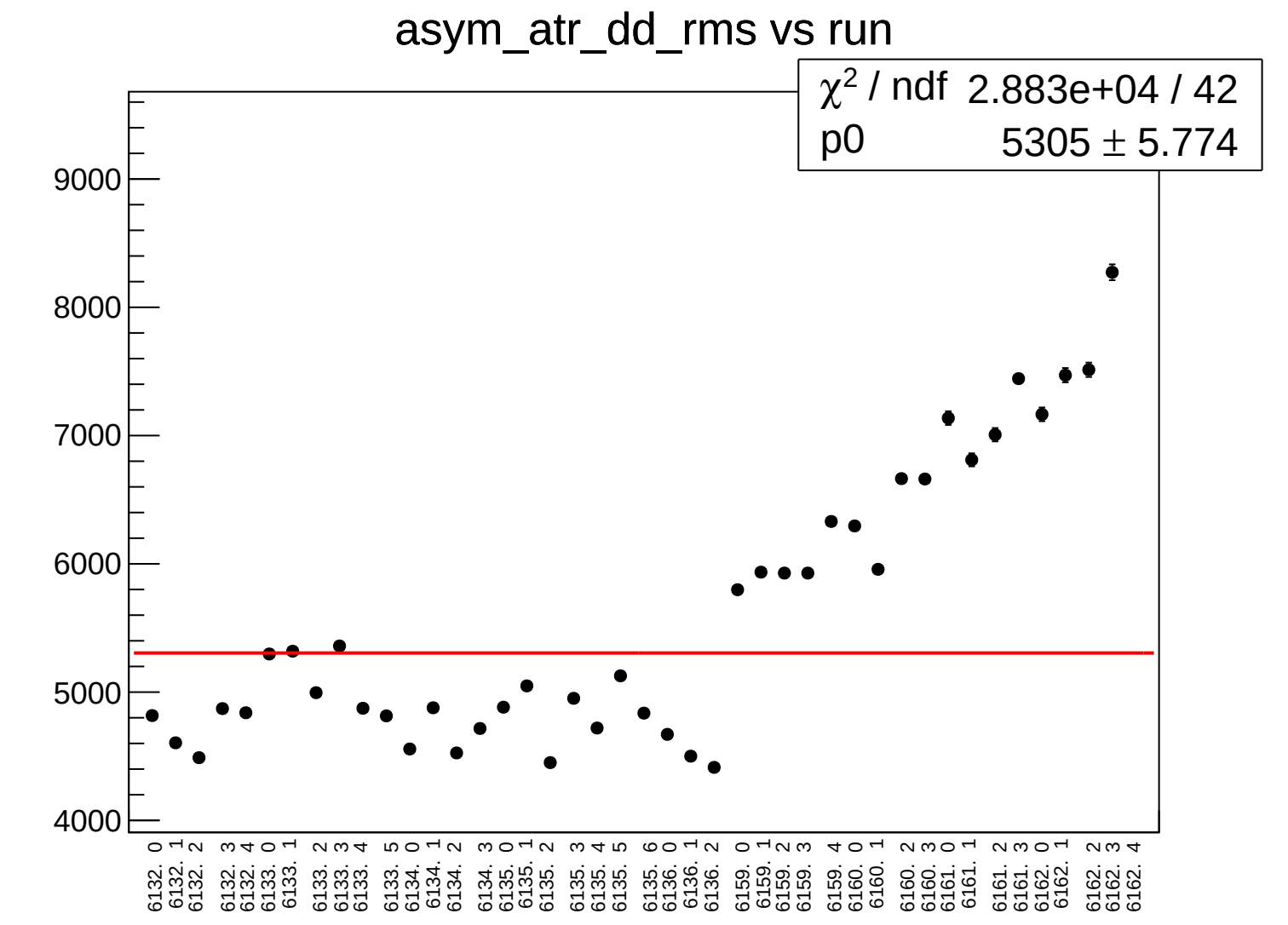

reg_asym_atr_dd_rms vs run
χ² / ndf 44.51 / 42
p0 1901 ± 2.035
1960
1940
1920
1900
1880
1860
1840
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

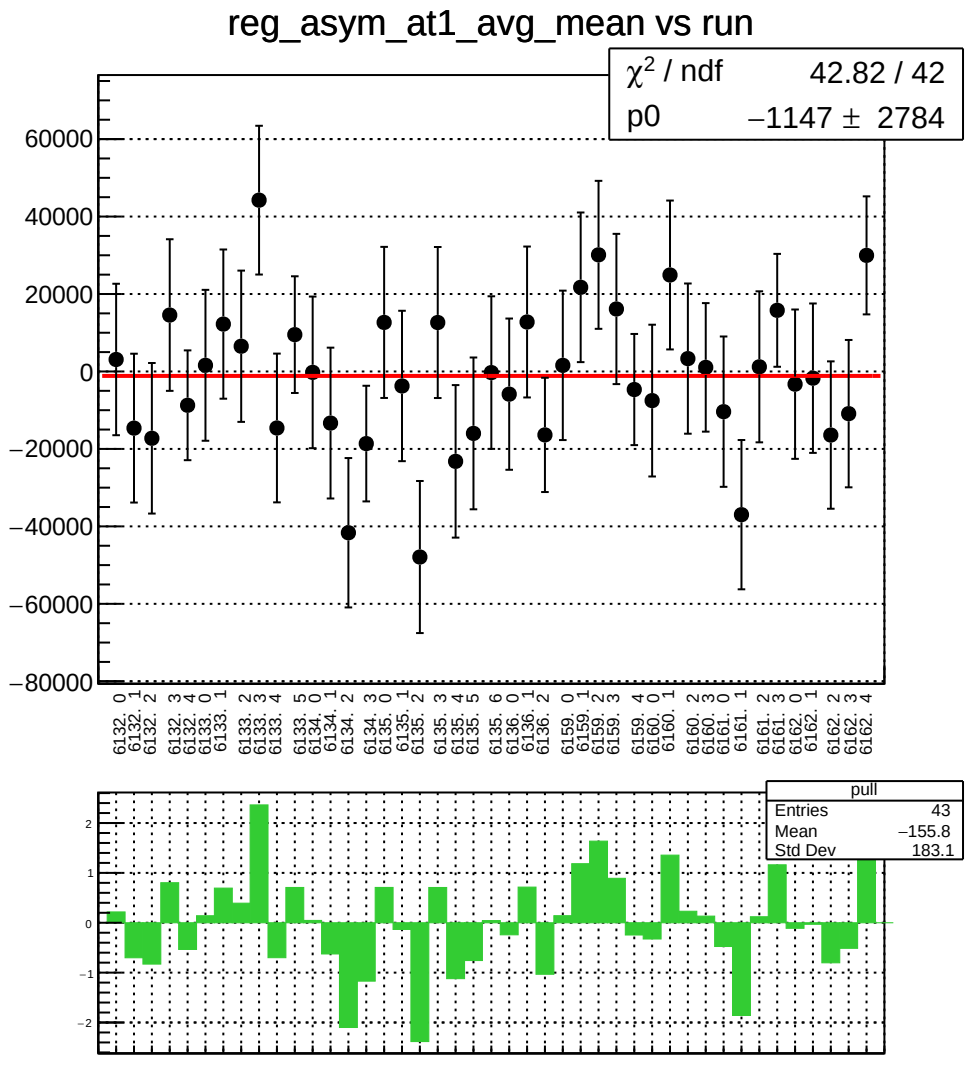

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 39.99 / 42
p0 −6047 ± 7572
200
150
100
50
0
−50
−100
−150
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 323
Std Dev 303.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01311
Std Dev 0.9642
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

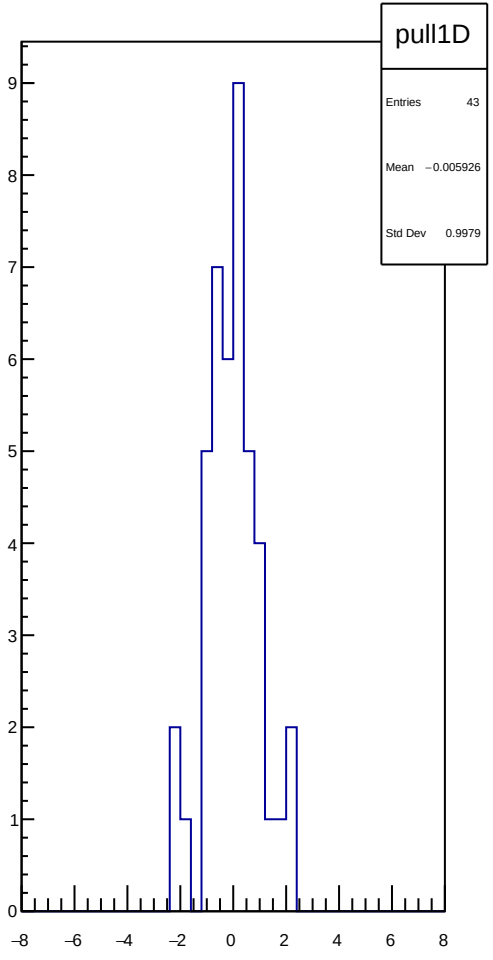

asym_atr_dd_correction_rms vs run
χ² / ndf 3.548e+04 / 42
p0 4900 ± 5.354
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

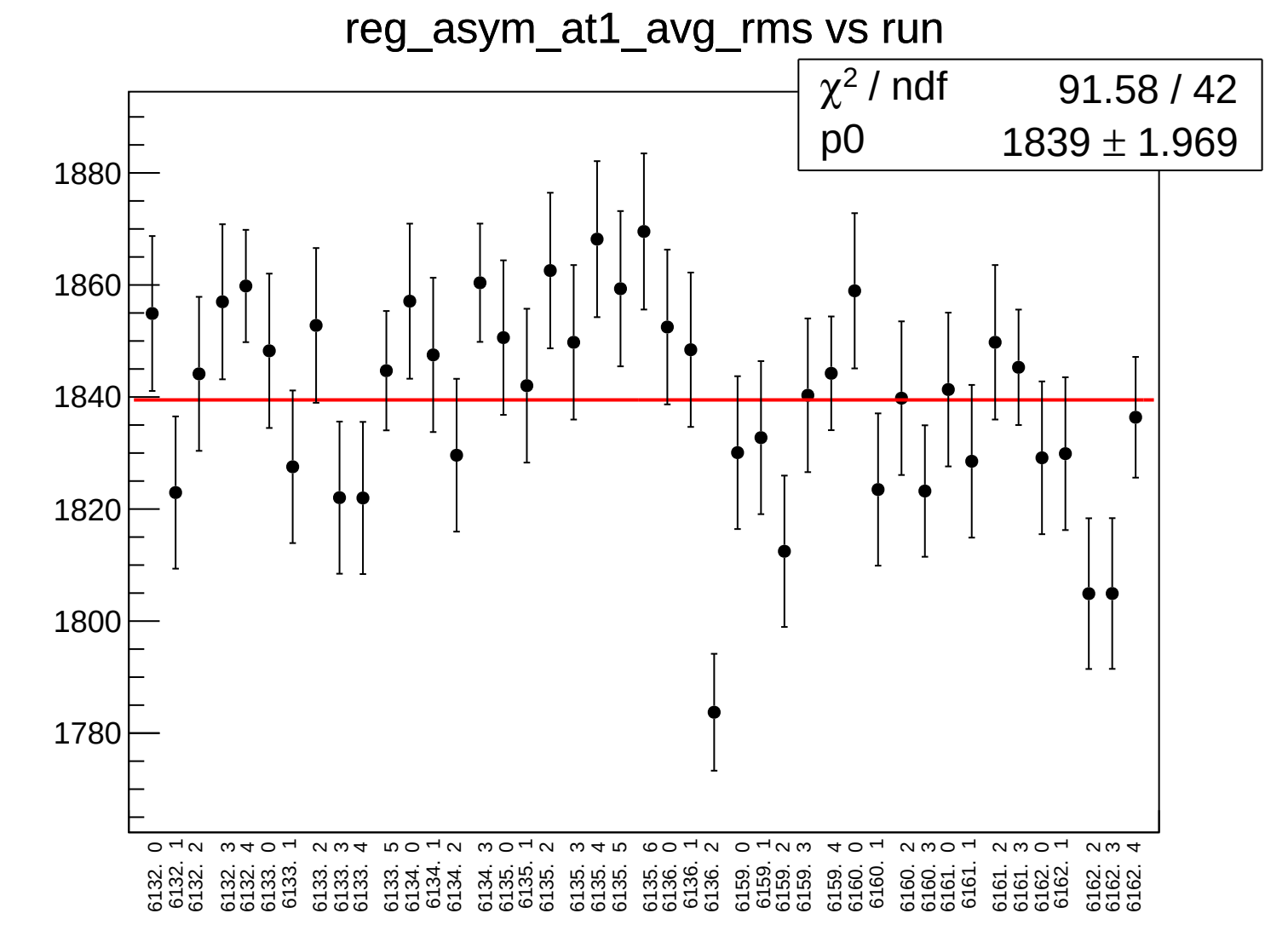

asym_atr_dd_mean vs run
×10^3
χ² / ndf 46.68 / 42
p0 5442 ± 8165
200
150
100
50
0
−50
−100
−150
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −318.8
Std Dev 335.8
2
1
0
−1
−2

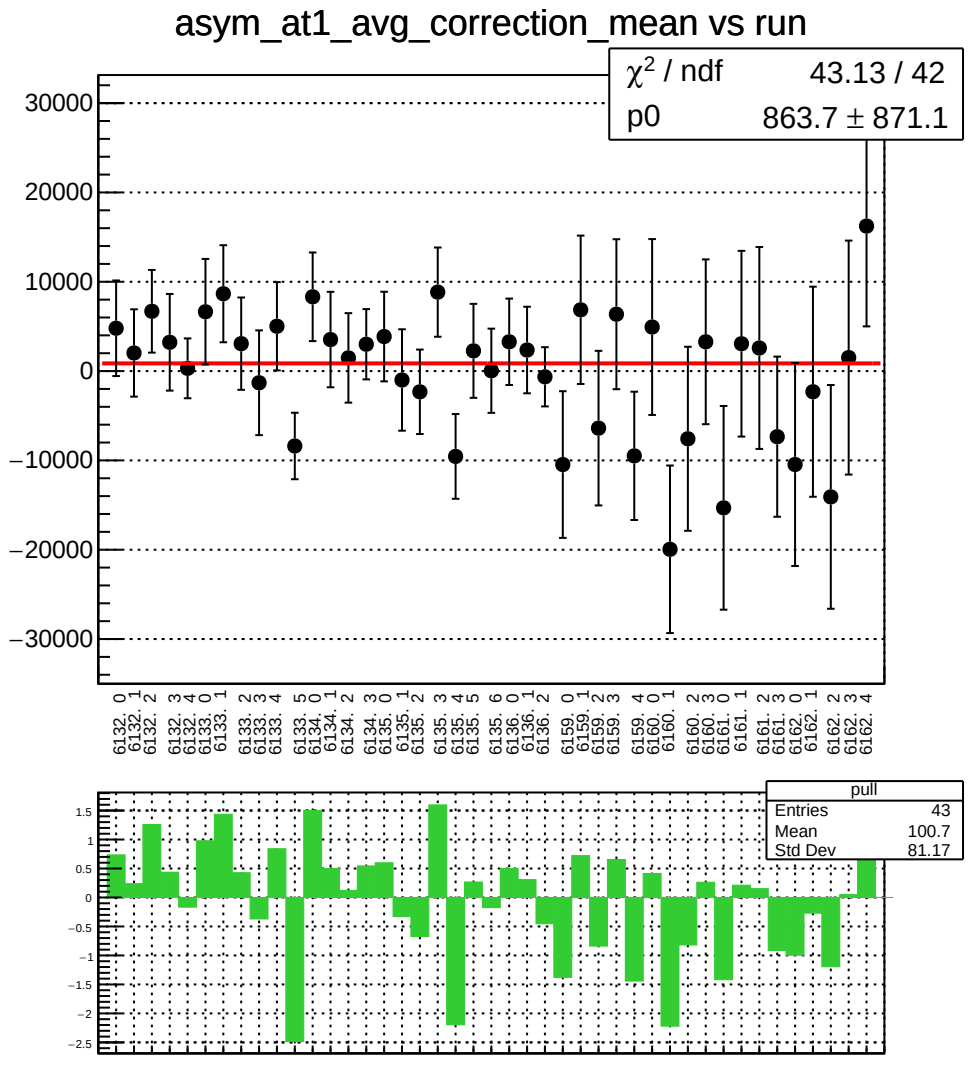

pull1D
Entries 43
Mean 0.01172
Std Dev 1.042
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

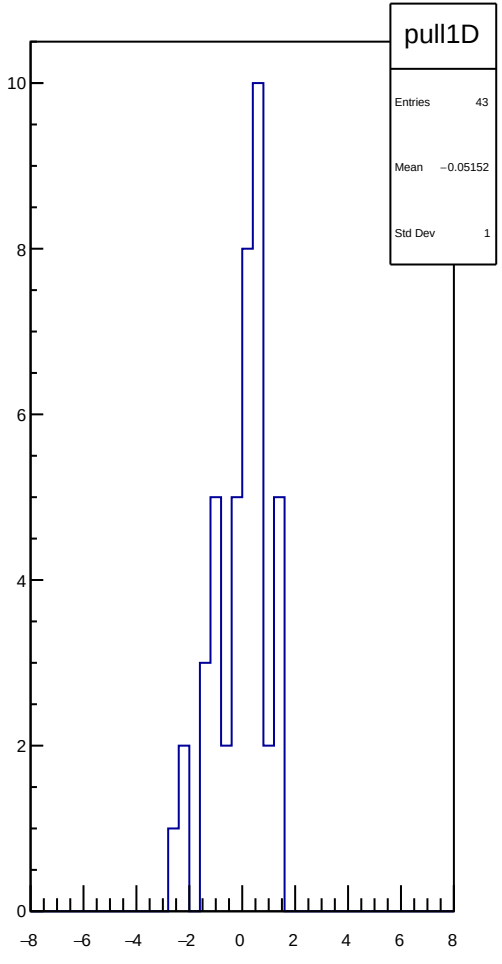

asym_atr_dd_rms vs run
χ² / ndf 2.883e+04 / 42
p0 5305 ± 5.774
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

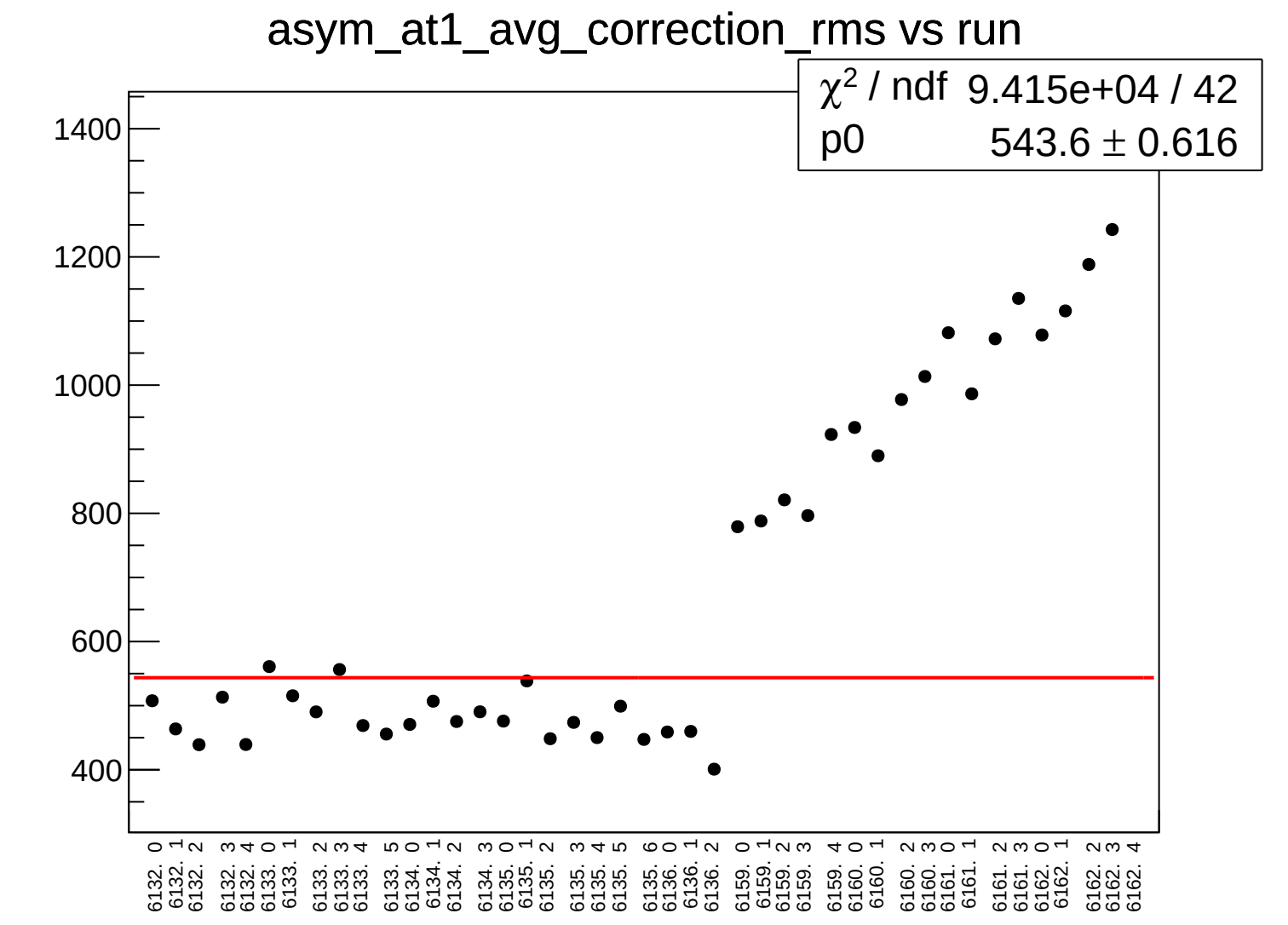

reg_asym_at1_avg_mean vs run
χ² / ndf 42.82 / 42
p0 −1147 ± 2784
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −155.8
Std Dev 183.1
2
1
0
−1
−2

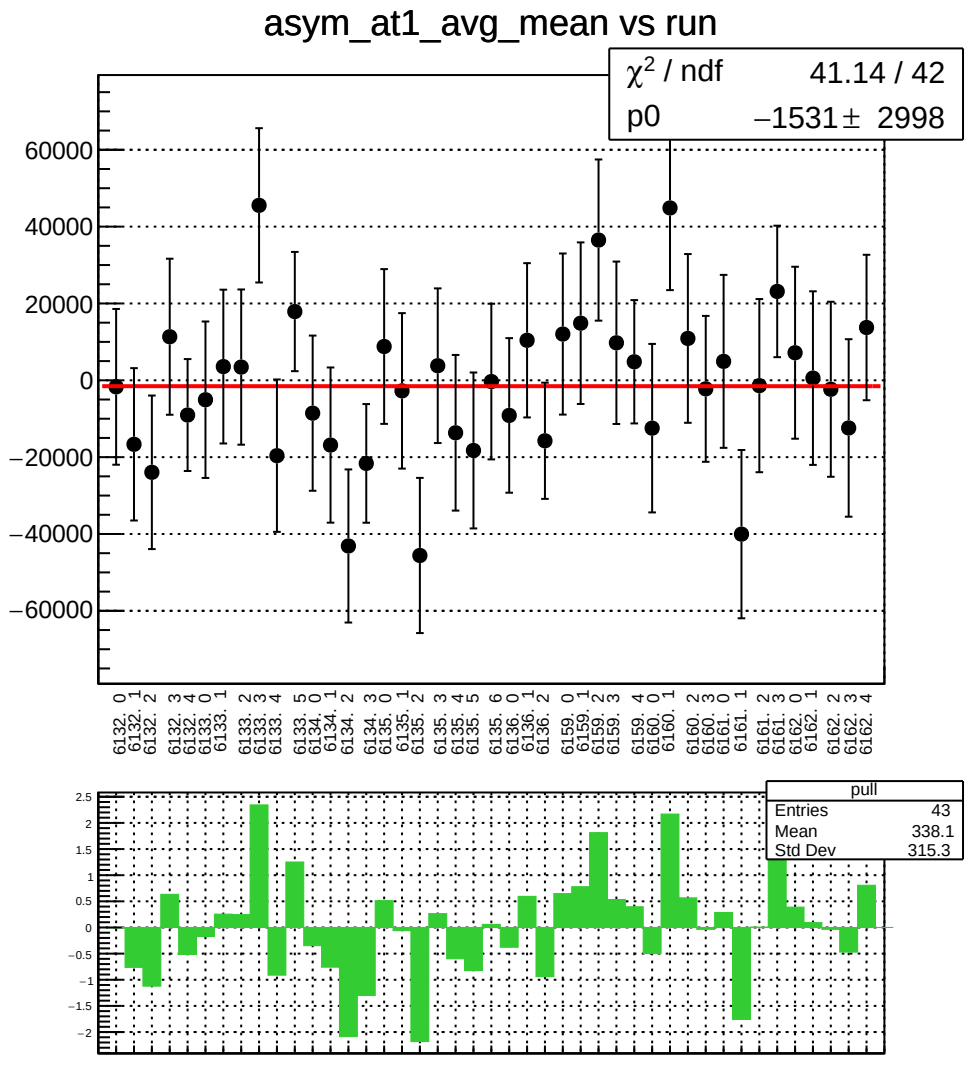

pull1D
Entries 43
Mean −0.005926
Std Dev 0.9979
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

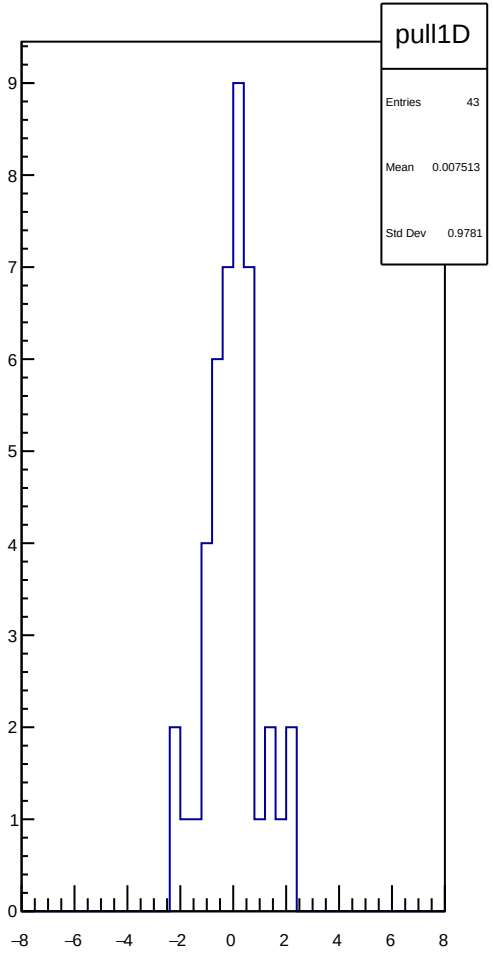

reg_asym_at1_avg_rms vs run
χ² / ndf 91.58 / 42
p0 1839 ± 1.969
1880
1860
1840
1820
1800
1780
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

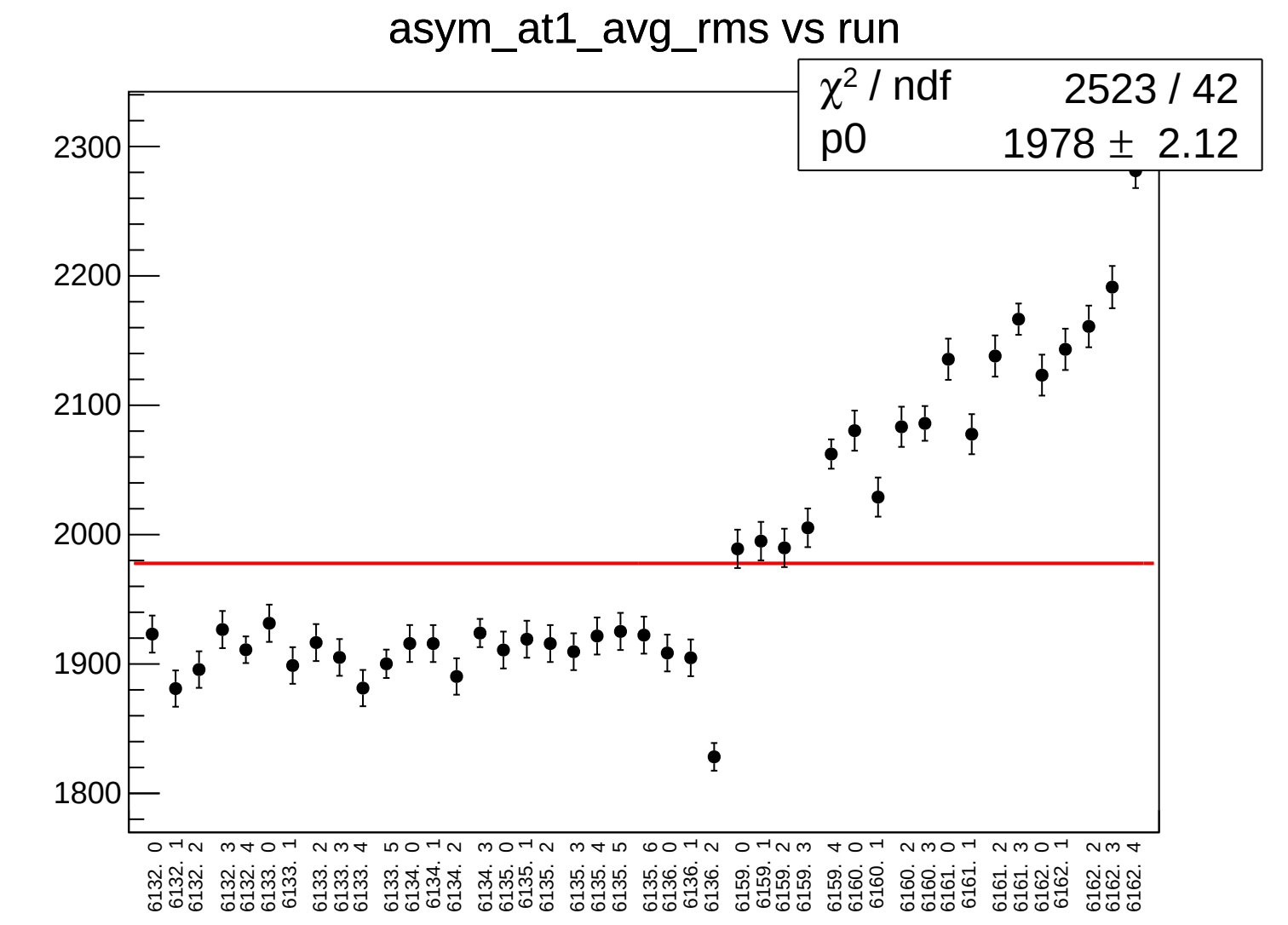

asym_at1_avg_correction_mean vs run
χ² / ndf 43.13 / 42
p0 863.7 ± 871.1
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 100.7
Std Dev 81.17
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

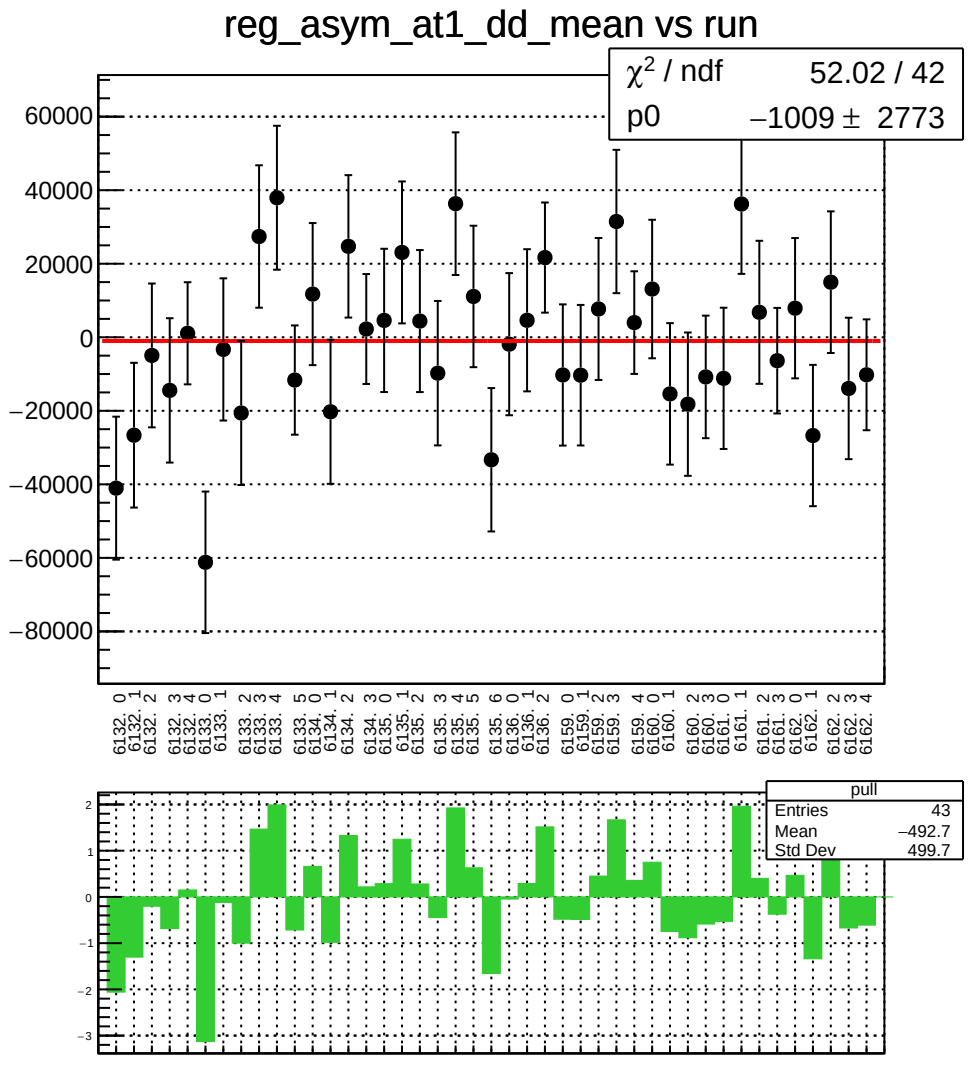

pull1D
Entries 43
Mean −0.05152
Std Dev 1
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

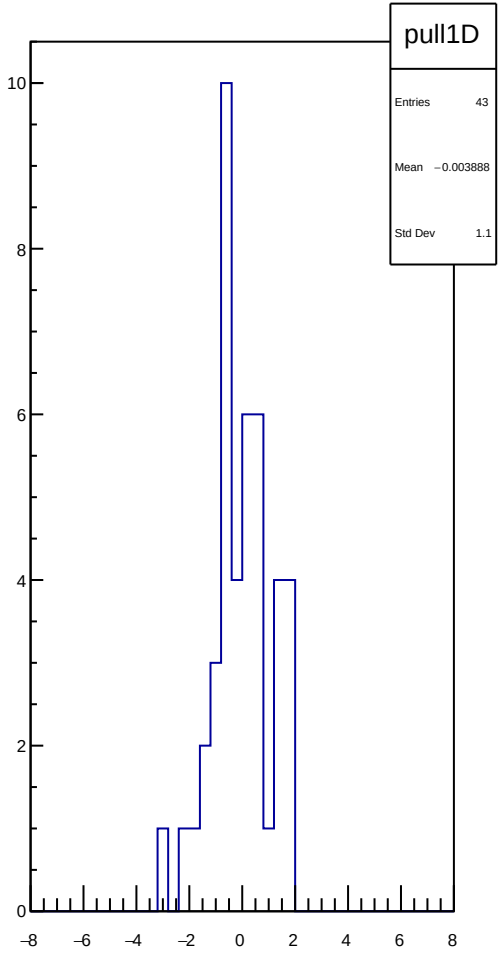

asym_at1_avg_correction_rms vs run
χ² / ndf 9.415e+04 / 42
p0 543.6 ± 0.616
1400
1200
1000
800
600
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

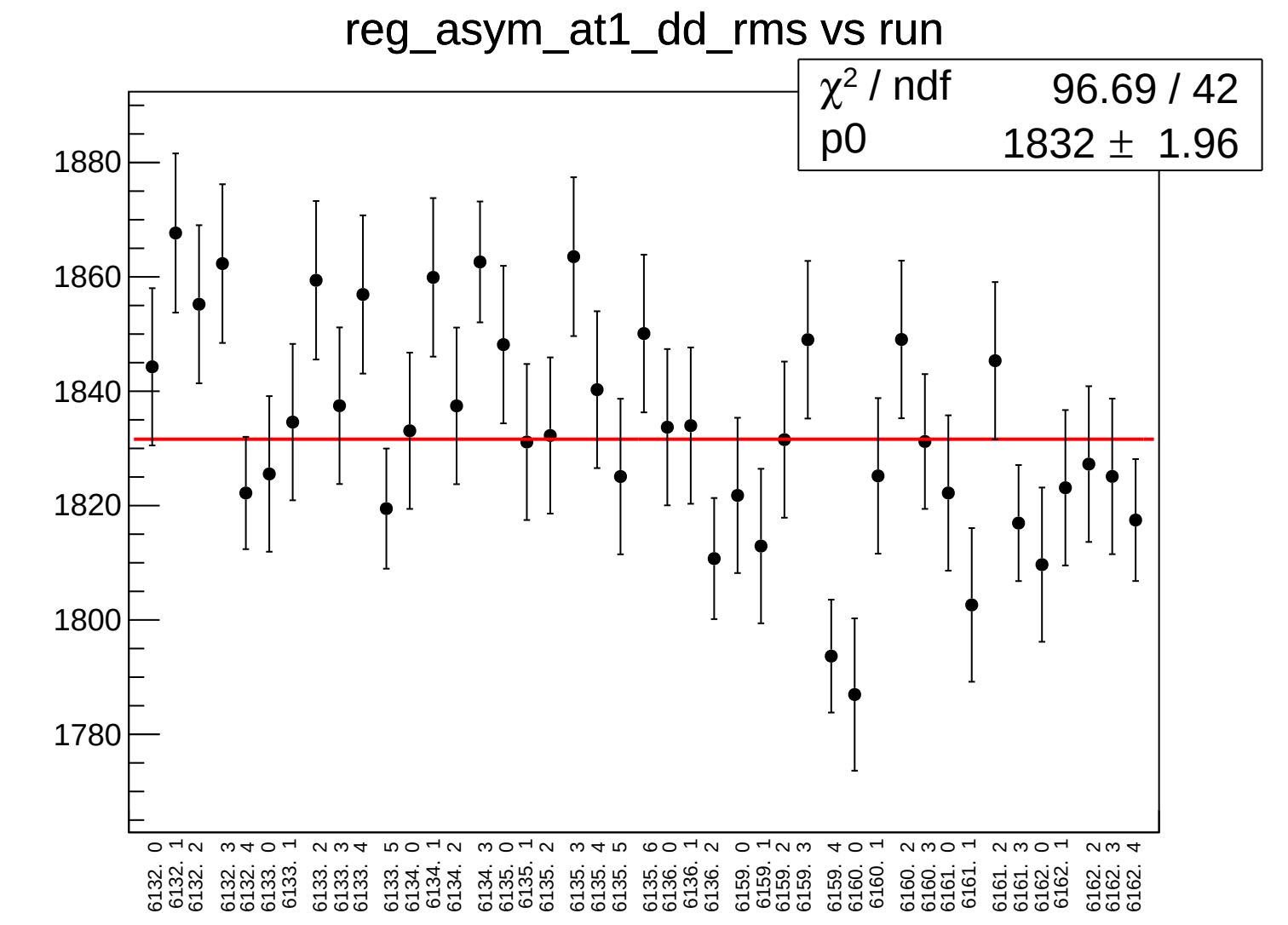

asym_at1_avg_mean vs run
χ² / ndf 41.14 / 42
p0 −1531 ± 2998
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 338.1
Std Dev 315.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

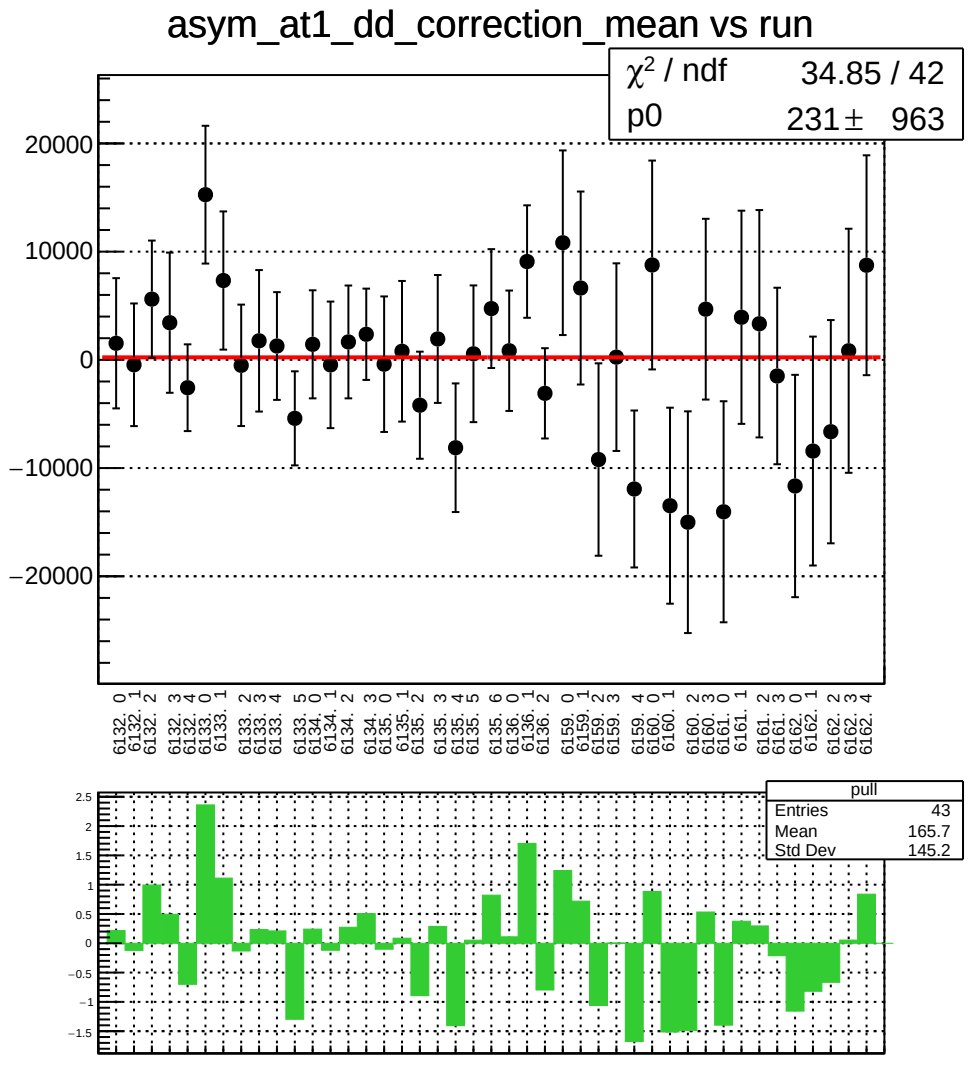

pull1D
Entries 43
Mean 0.007513
Std Dev 0.9781
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

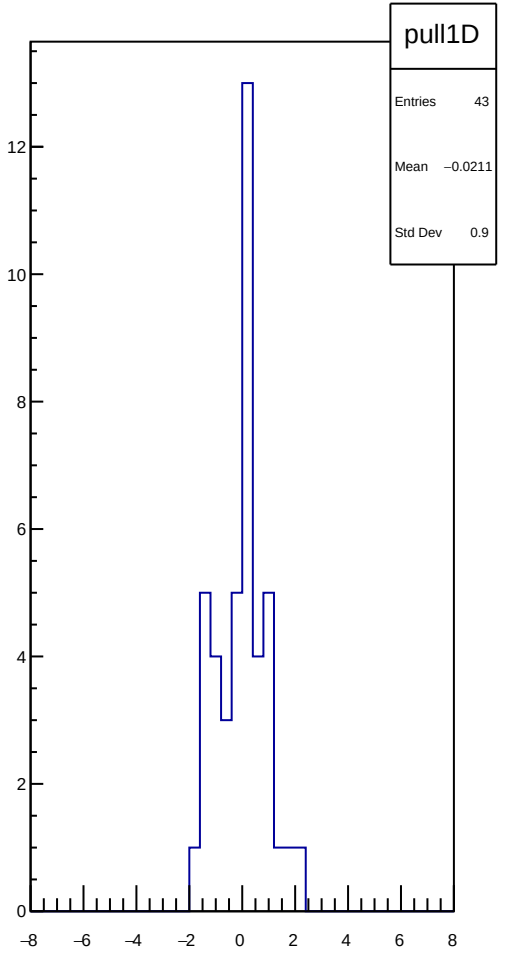

asym_at1_avg_rms vs run
χ² / ndf 2523 / 42
p0 1978 ± 2.12
2300
2200
2100
2000
1900
1800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

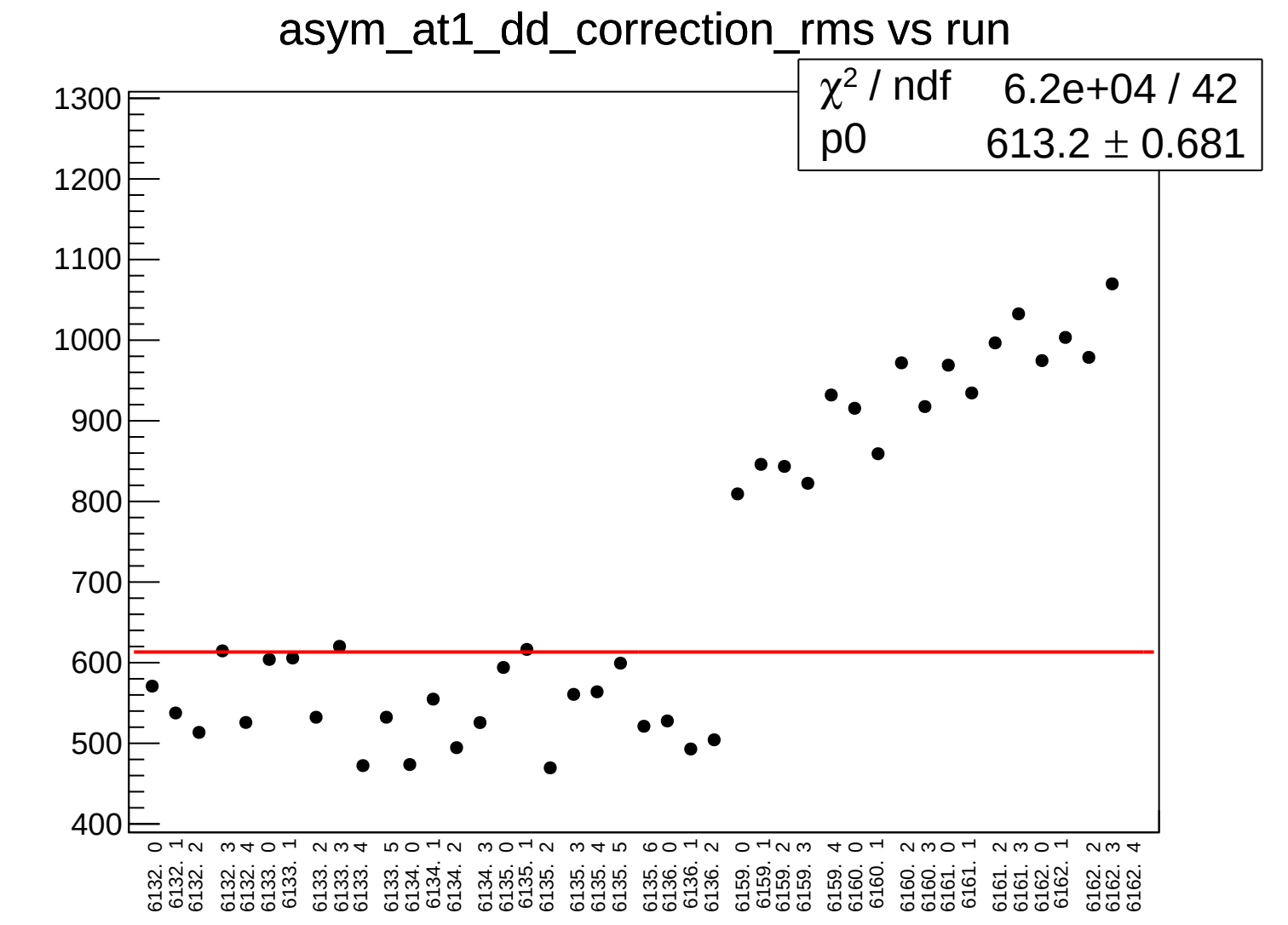

reg_asym_at1_dd_mean vs run
χ² / ndf 52.02 / 42
p0 −1009 ± 2773
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −492.7
Std Dev 499.7
2
1
0
−1
−2
−3

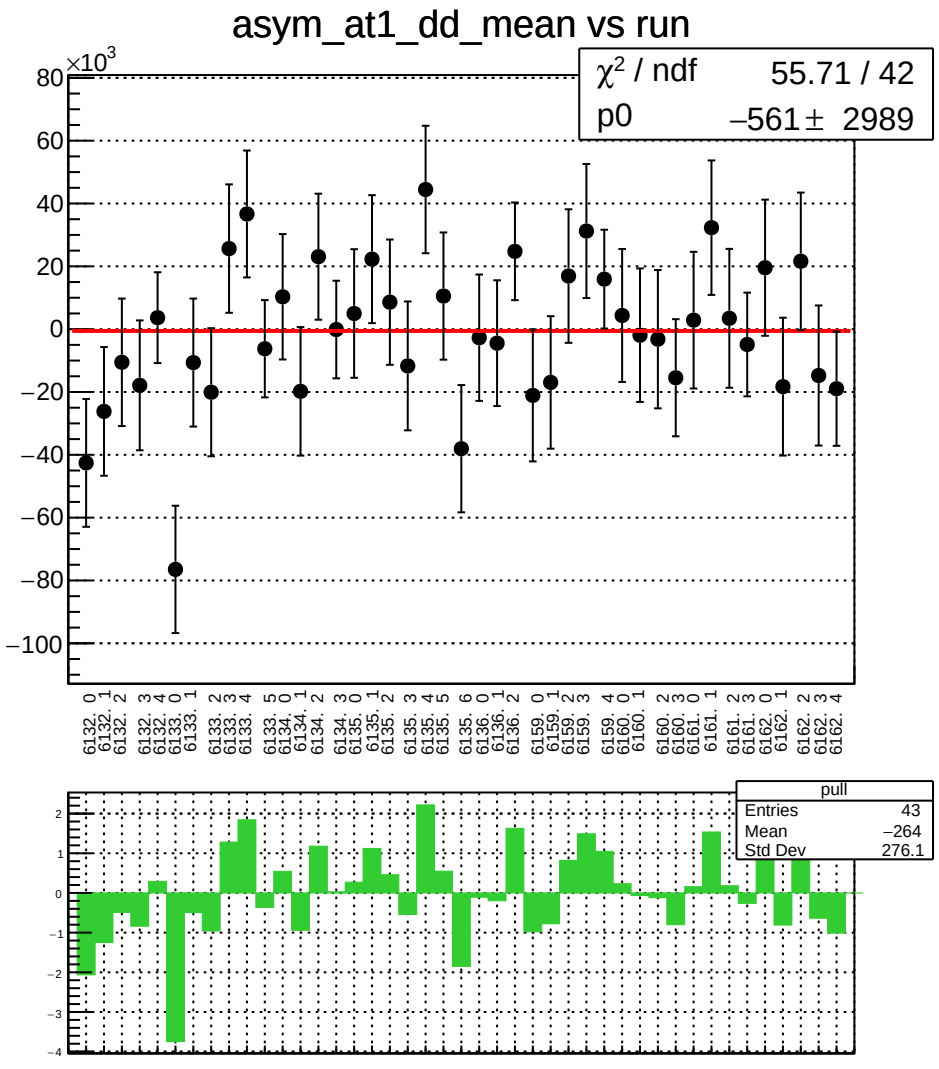

pull1D
Entries 43
Mean −0.003888
Std Dev 1.1
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

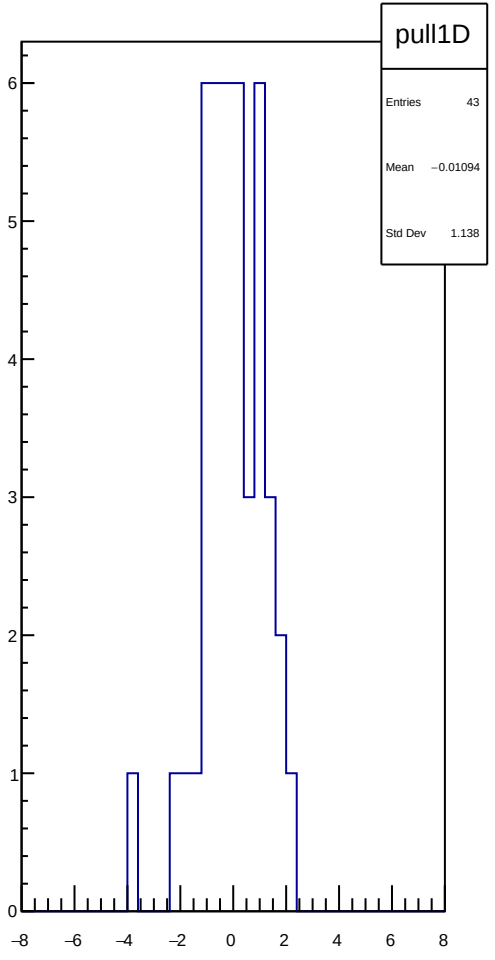

reg_asym_at1_dd_rms vs run
χ² / ndf 96.69 / 42
p0 1832 ± 1.96
1880
1860
1840
1820
1800
1780
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

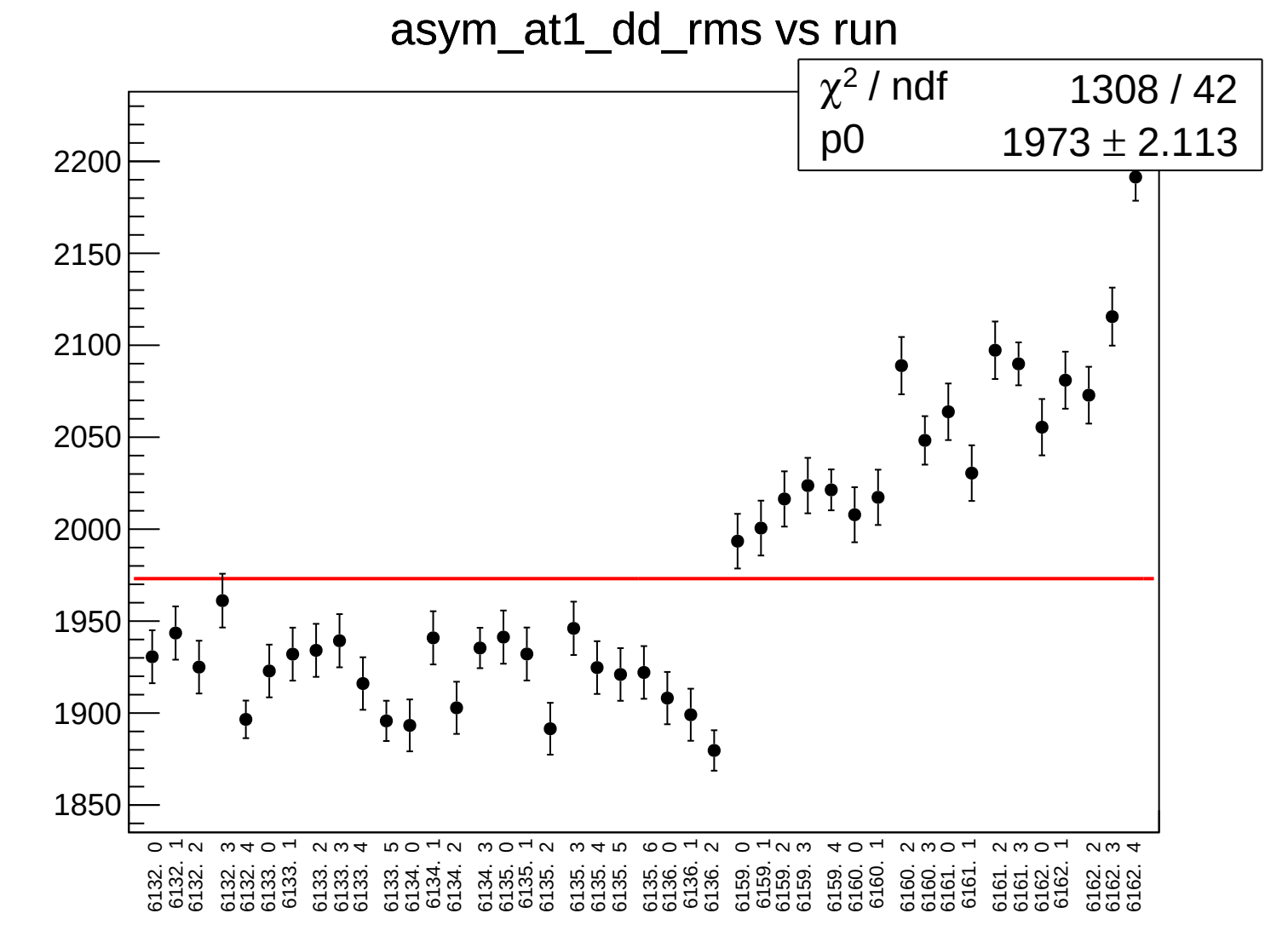

asym_at1_dd_correction_mean vs run
χ² / ndf 34.85 / 42
p0 231 ± 963
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 165.7
Std Dev 145.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

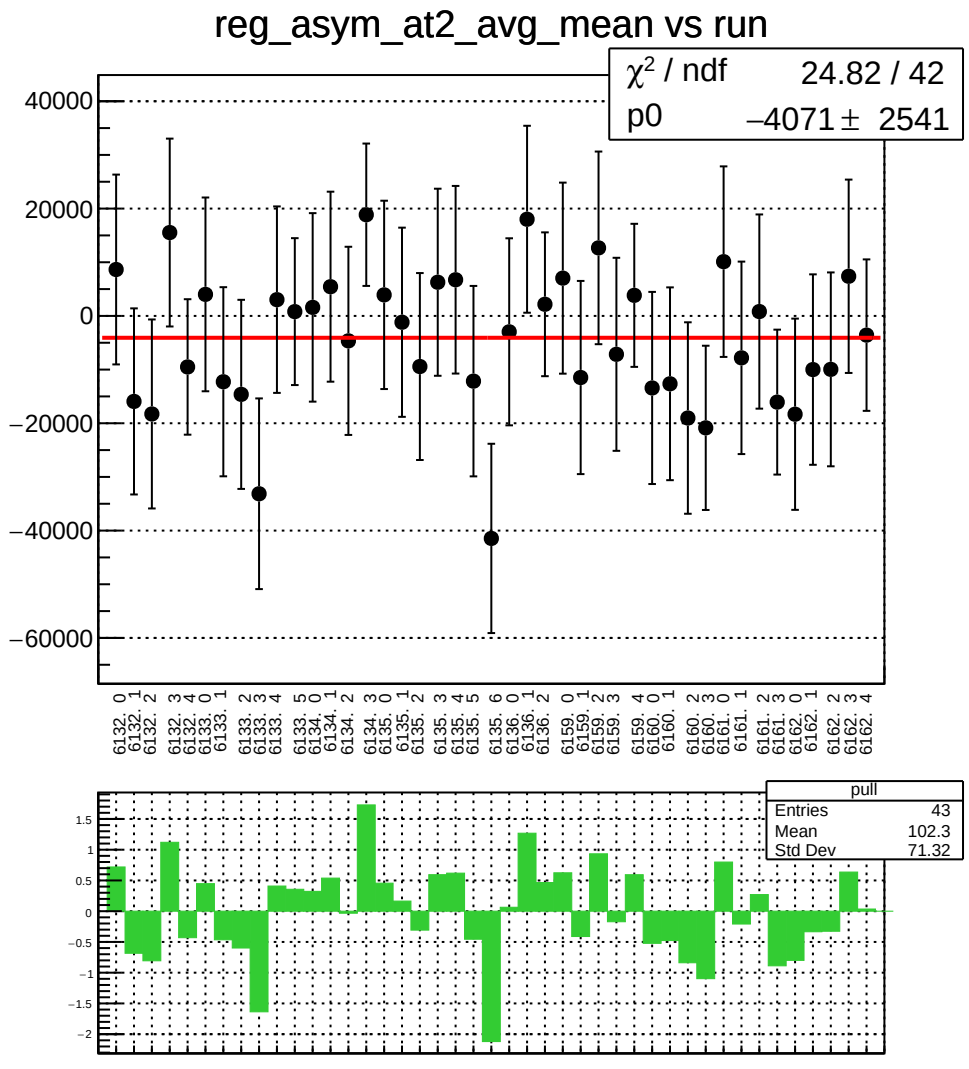

pull1D
Entries 43
Mean −0.0211
Std Dev 0.9
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

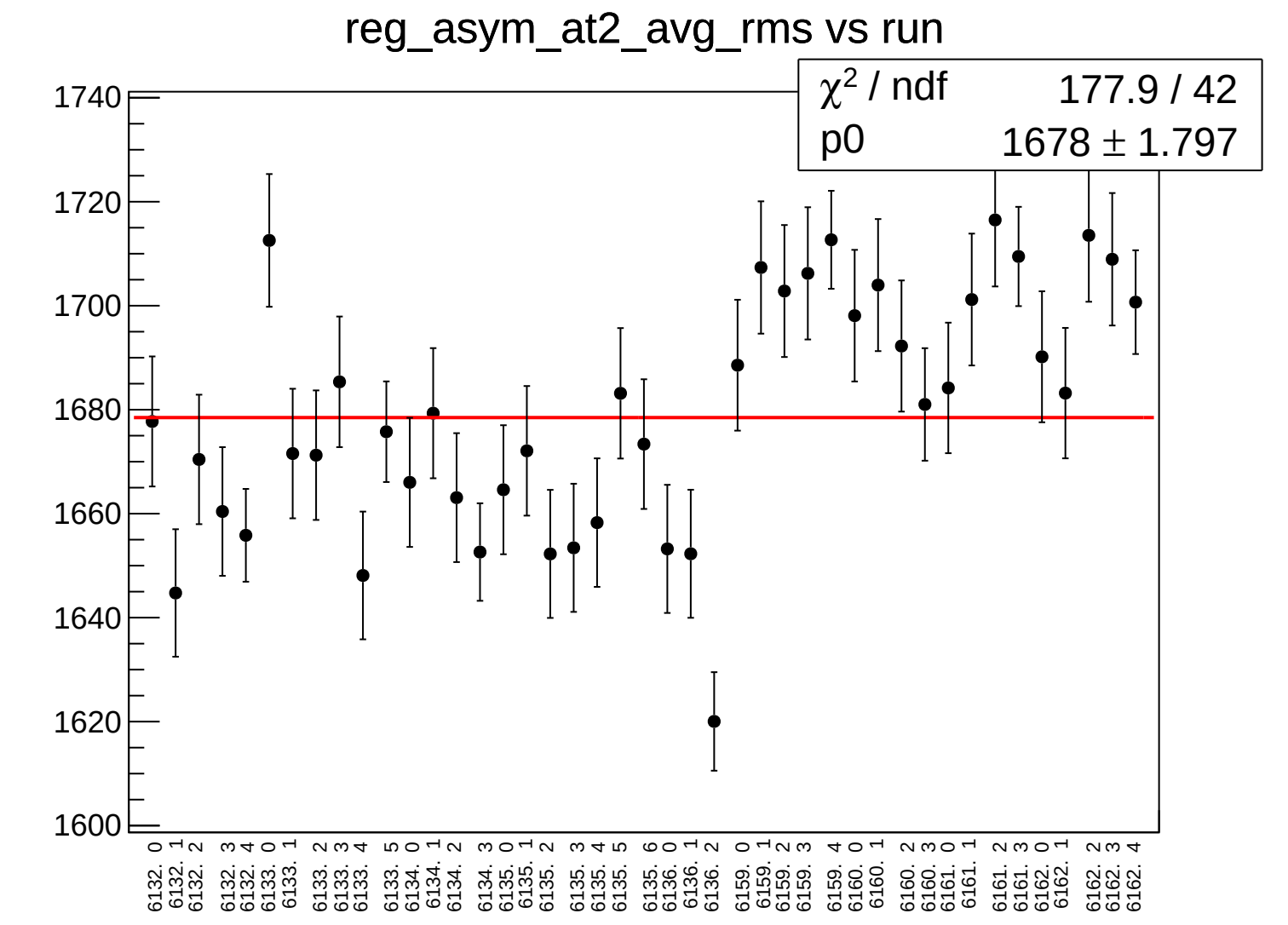

asym_at1_dd_correction_rms vs run
χ² / ndf 6.2e+04 / 42
p0 613.2 ± 0.681
1300
1200
1100
1000
900
800
700
600
500
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

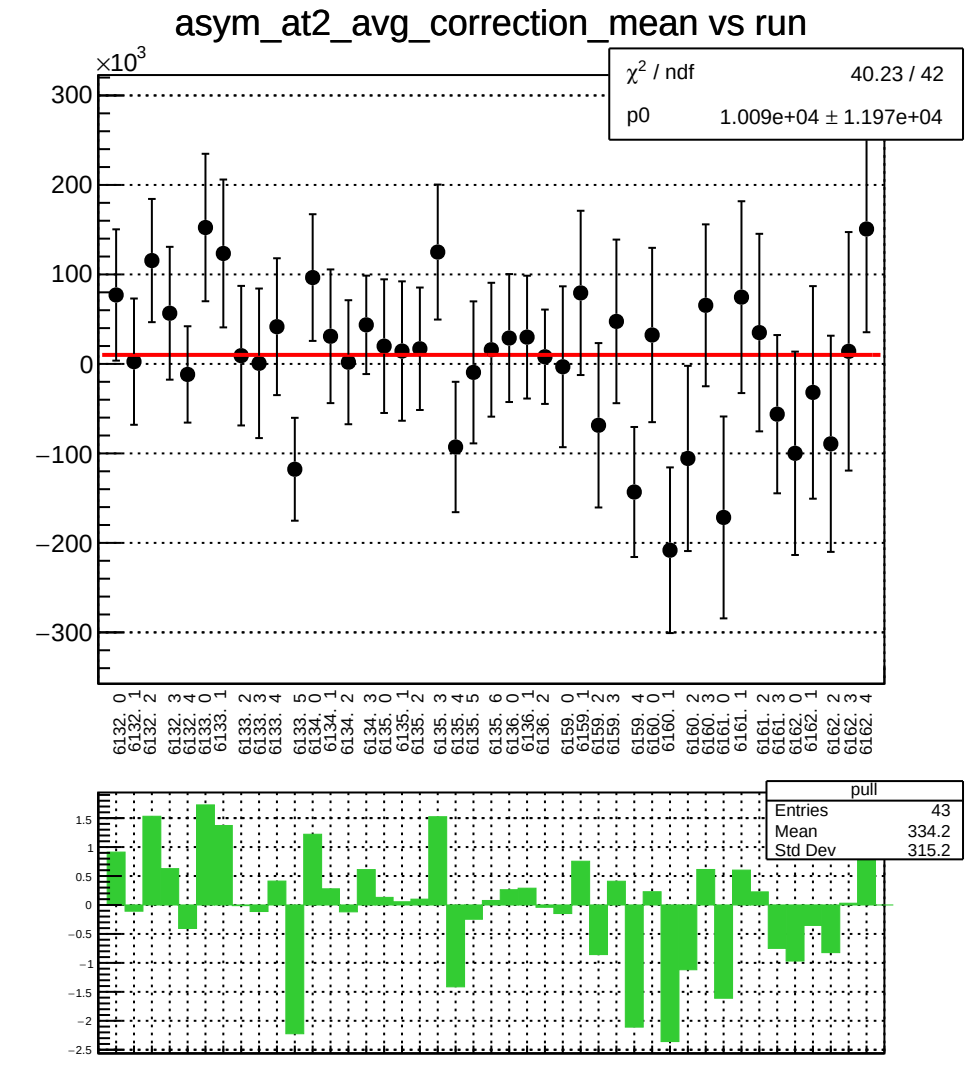

asym_at1_dd_mean vs run
×10^3
χ² / ndf 55.71 / 42
p0 −561 ± 2989
pull
Entries 43
Mean −264
Std Dev 276.1

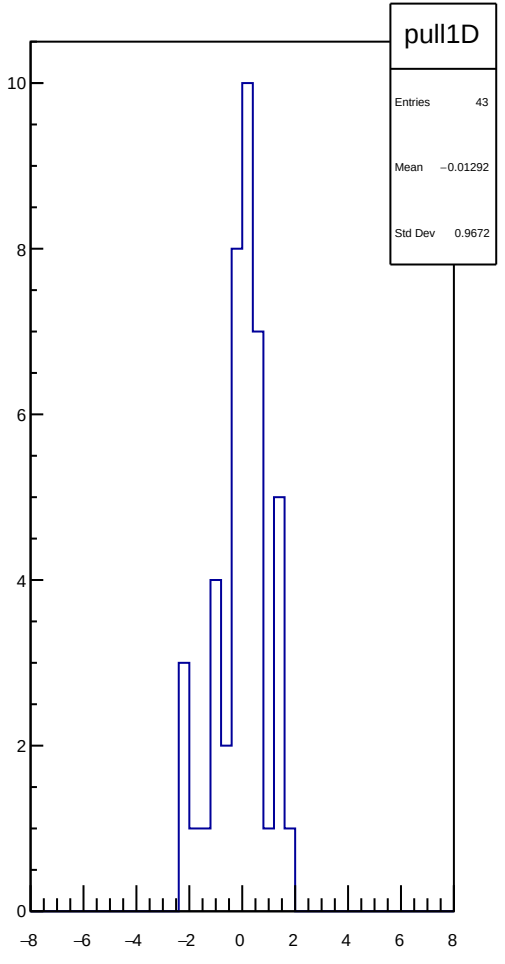

pull1D
Entries 43
Mean −0.01094
Std Dev 1.138

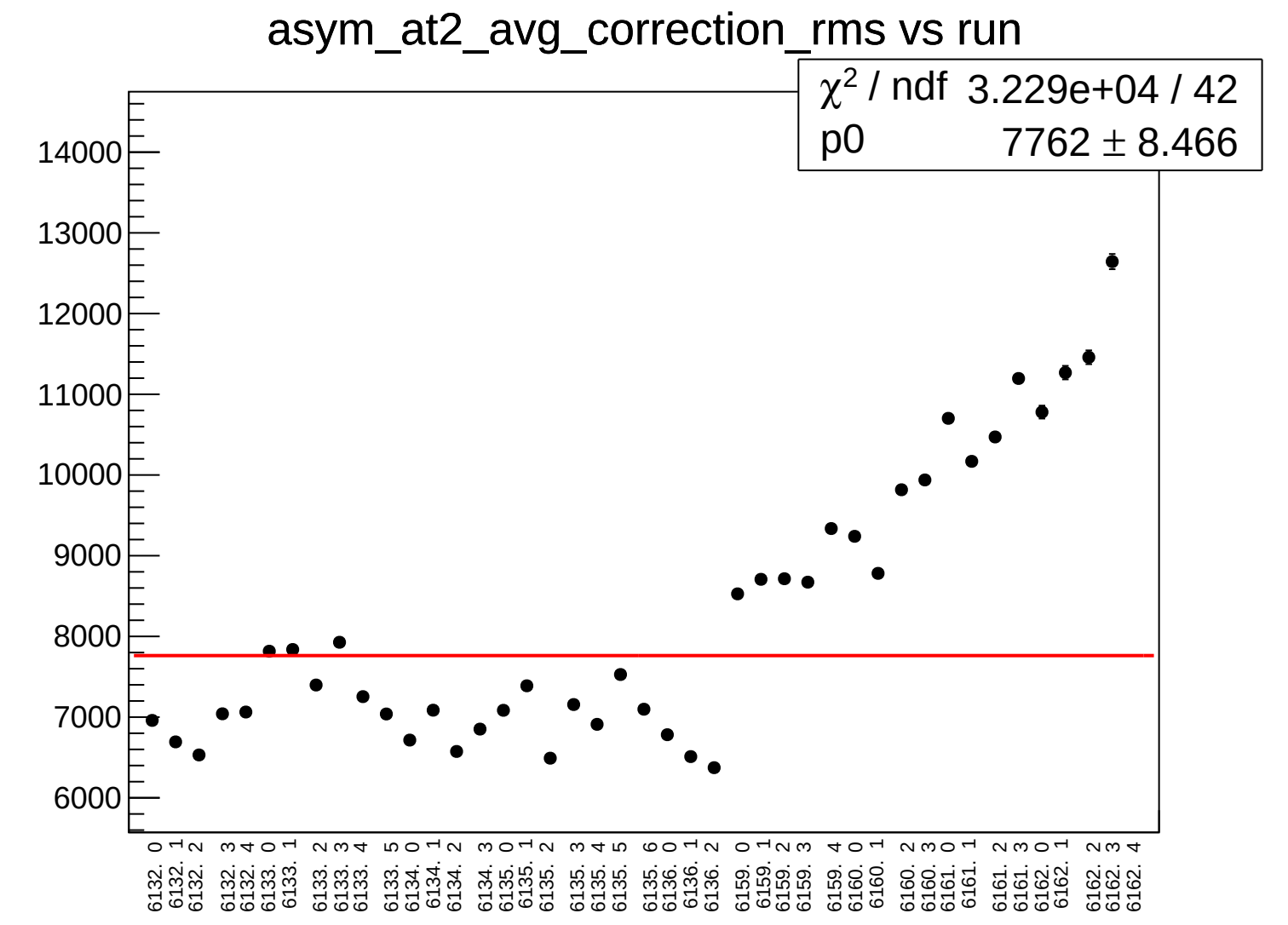

asym_at1_dd_rms vs run
χ² / ndf 1308 / 42
p0 1973 ± 2.113
2200
2150
2100
2050
2000
1950
1900
1850
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

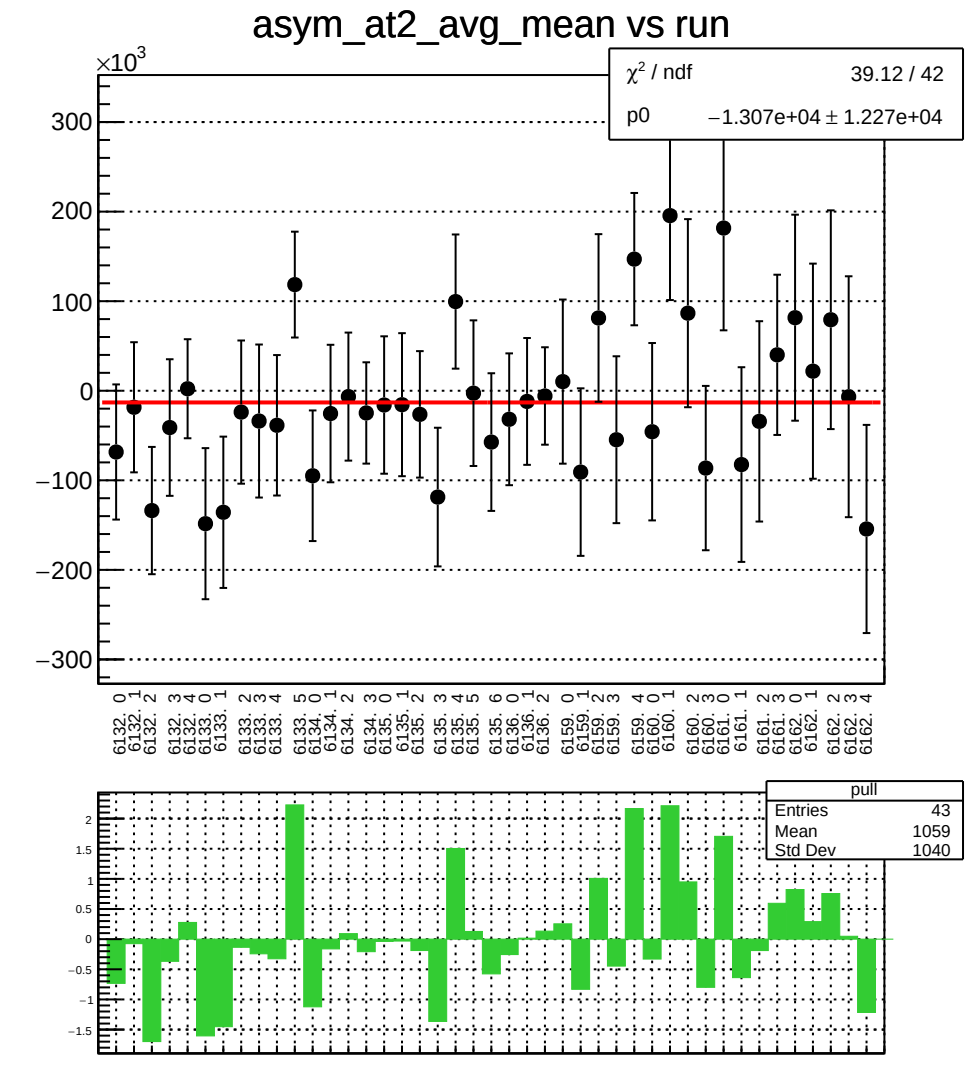

reg_asym_at2_avg_mean vs run
χ² / ndf 24.82 / 42
p0 −4071 ± 2541
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 102.3
Std Dev 71.32
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01048
Std Dev 0.7597
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

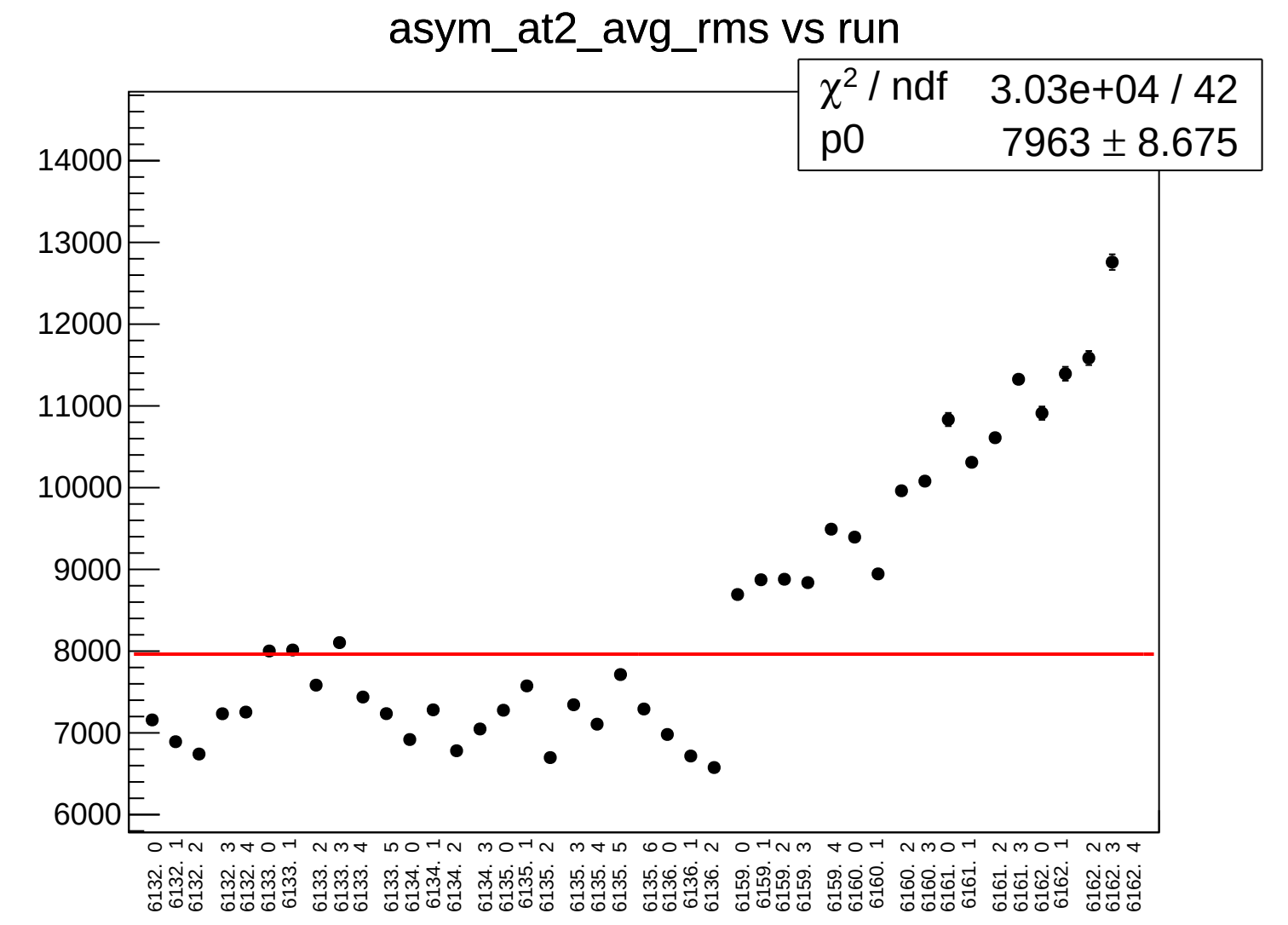

reg_asym_at2_avg_rms vs run
χ² / ndf 177.9 / 42
p0 1678 ± 1.797
1740
1720
1700
1680
1660
1640
1620
1600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

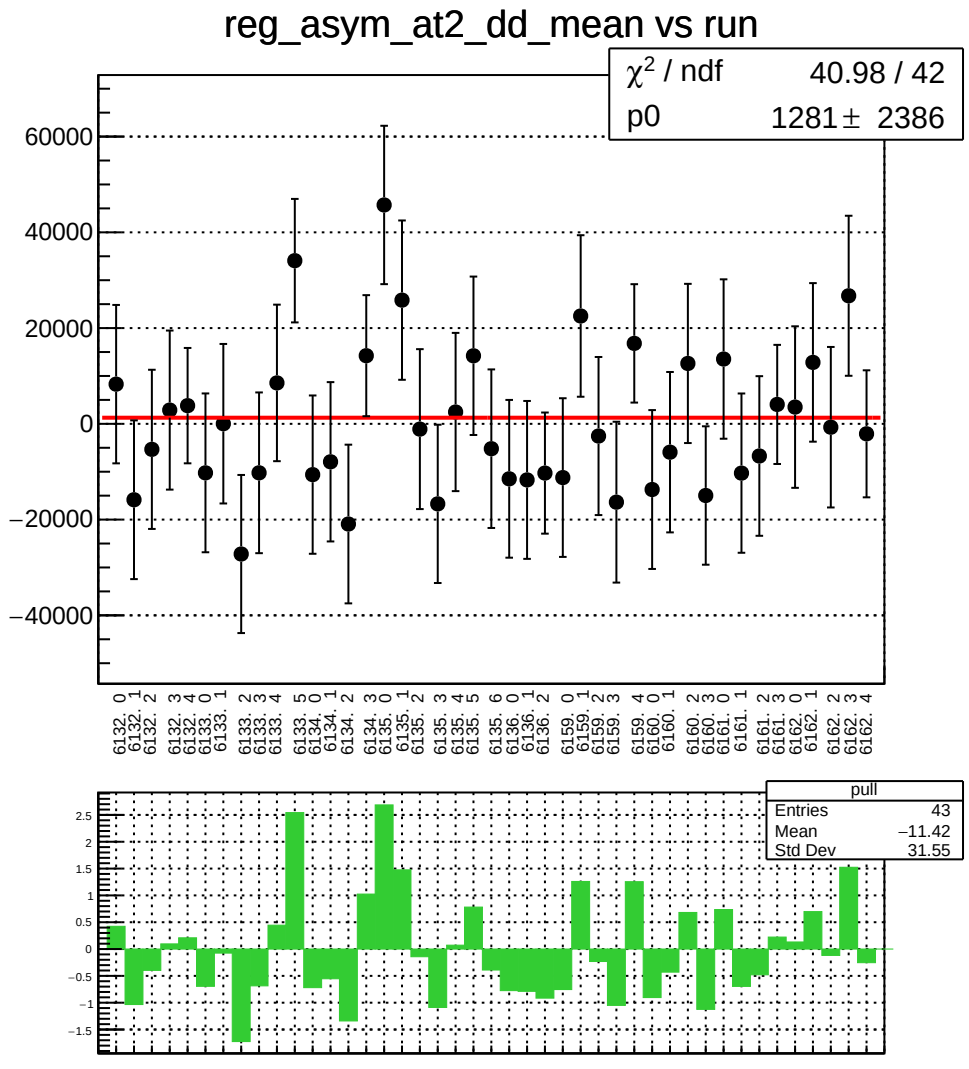

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 40.23 / 42
p0 1.009e+04 ± 1.197e+04
pull
Entries 43
Mean 334.2
Std Dev 315.2

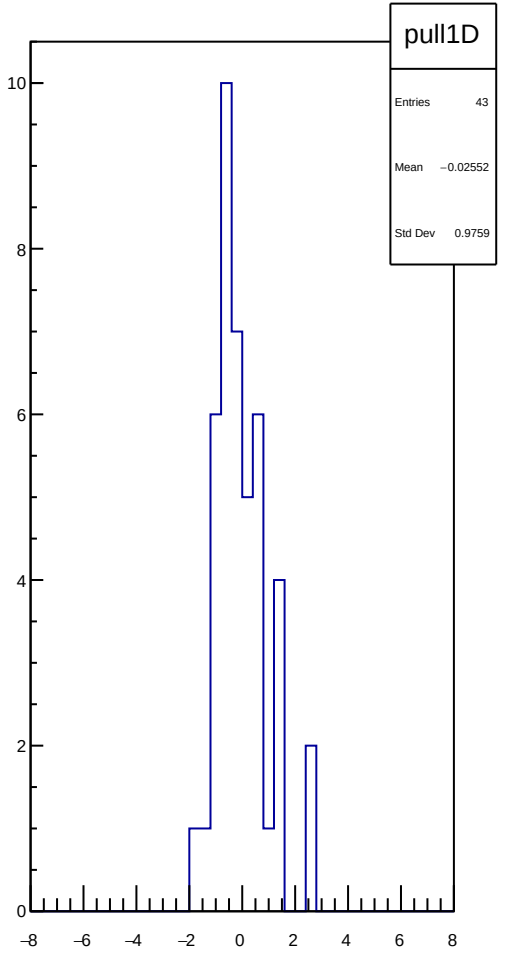

pull1D
Entries 43
Mean −0.01292
Std Dev 0.9672

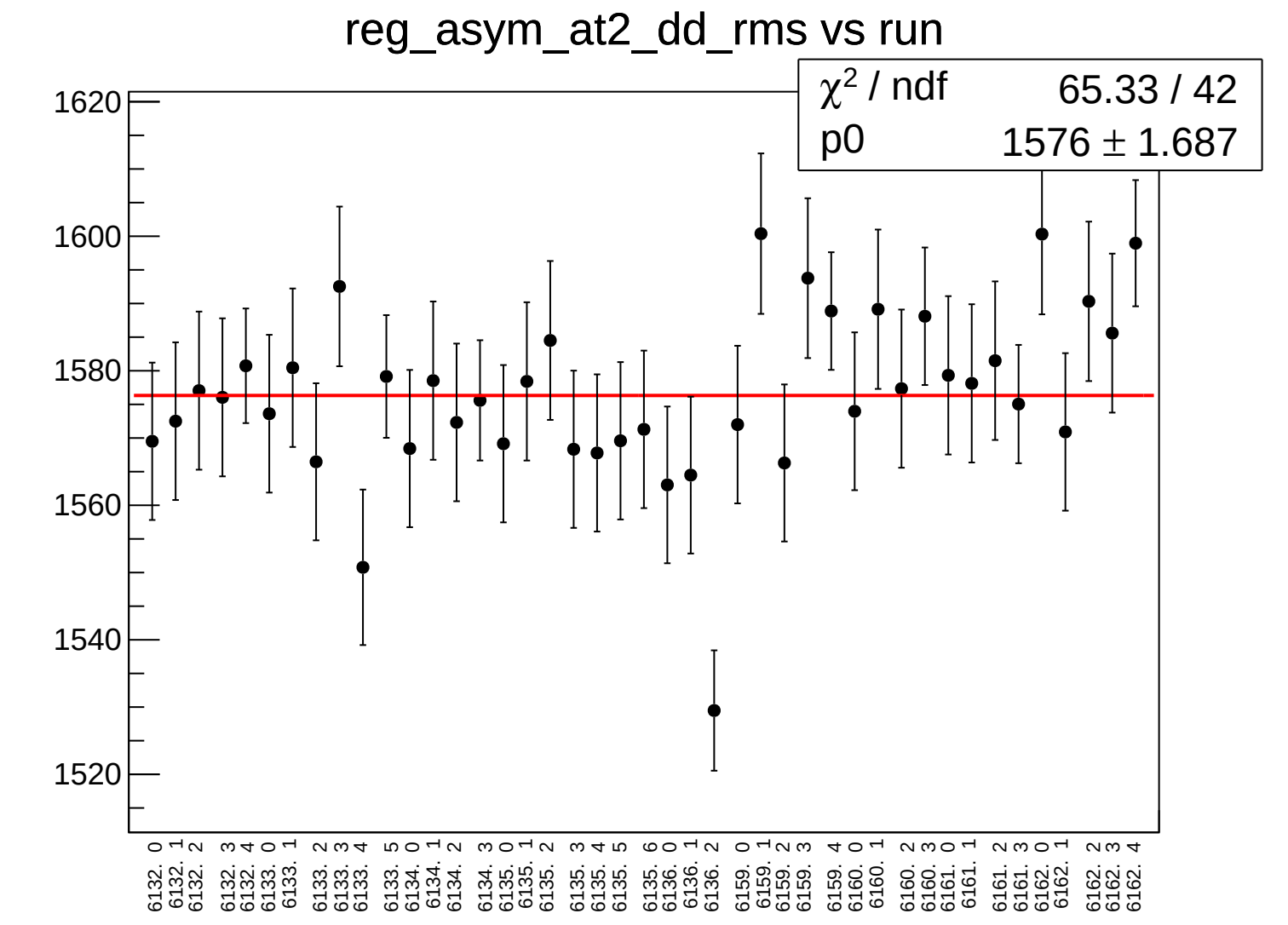

asym_at2_avg_correction_rms vs run
χ² / ndf 3.229e+04 / 42
p0 7762 ± 8.466
14000
13000
12000
11000
10000
9000
8000
7000
6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

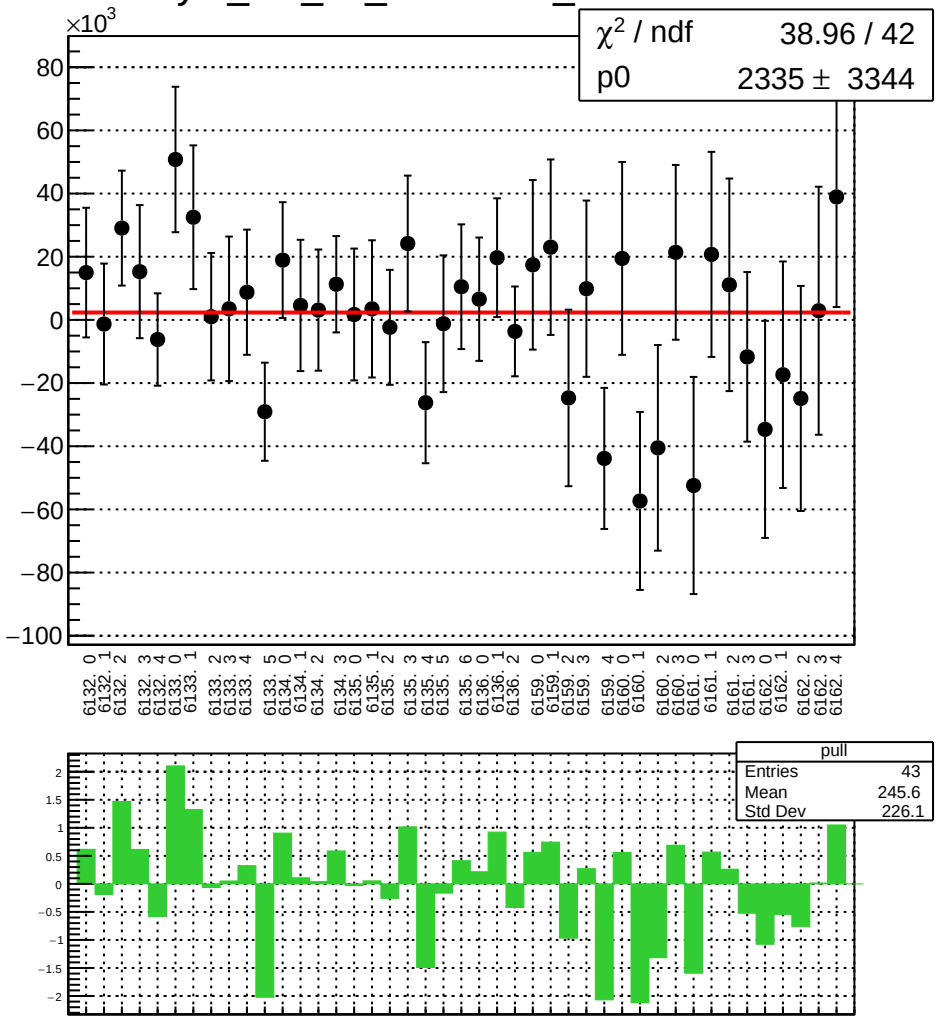

asym_at2_avg_mean vs run
×10^3
χ² / ndf 39.12 / 42
p0 −1.307e+04 ± 1.227e+04
300
200
100
0
−100
−200
−300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 1059
Std Dev 1040
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.003692
Std Dev 0.9538
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

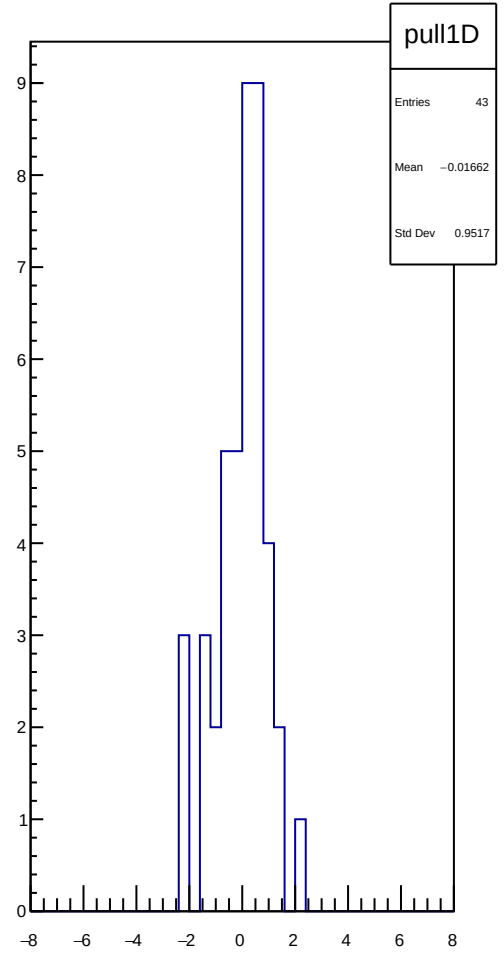

asym_at2_avg_rms vs run
χ² / ndf 3.03e+04 / 42
p0 7963 ± 8.675
14000
13000
12000
11000
10000
9000
8000
7000
6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

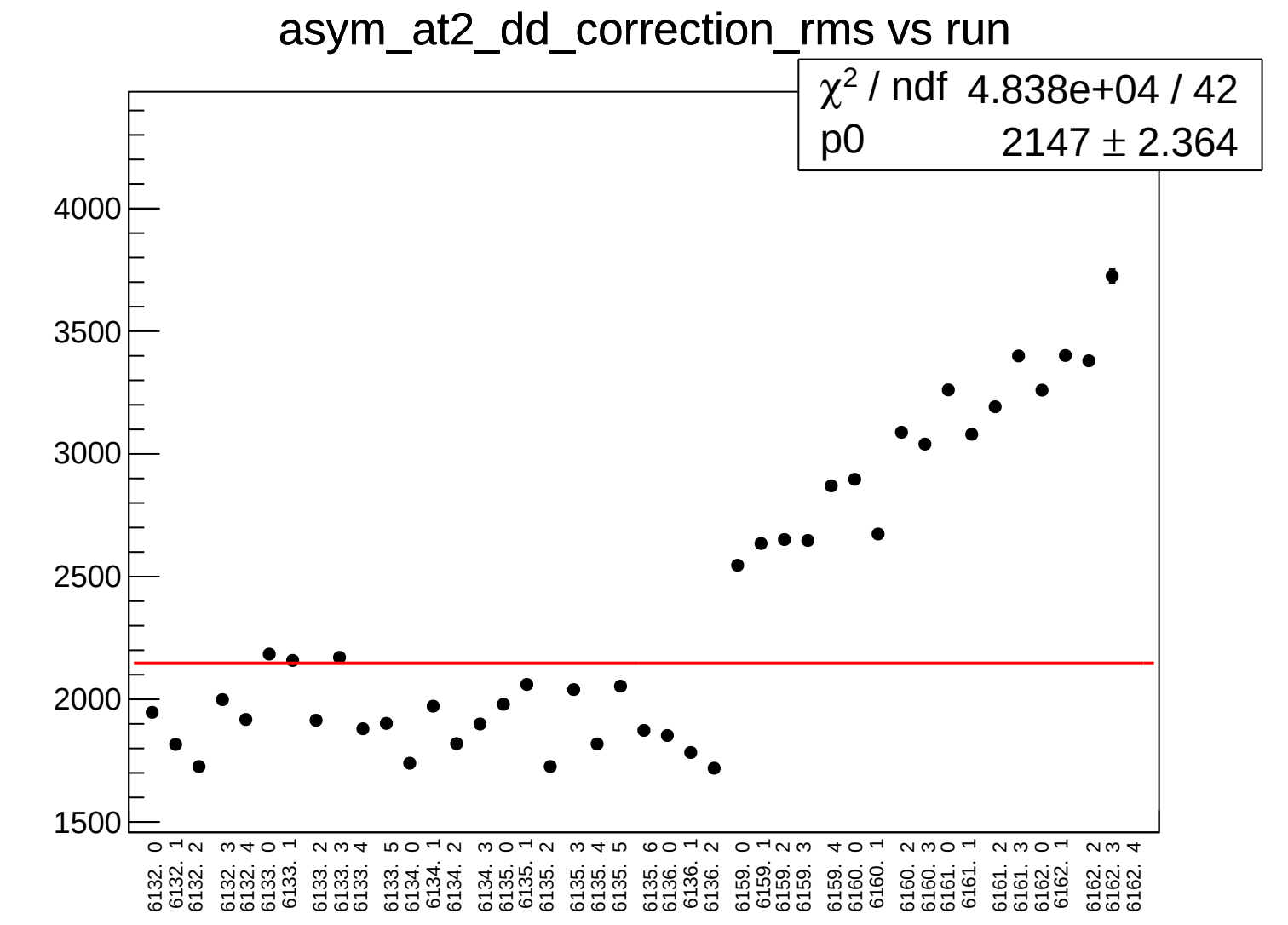

reg_asym_at2_dd_mean vs run
χ² / ndf 40.98 / 42
p0 1281 ± 2386
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −11.42
Std Dev 31.55
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

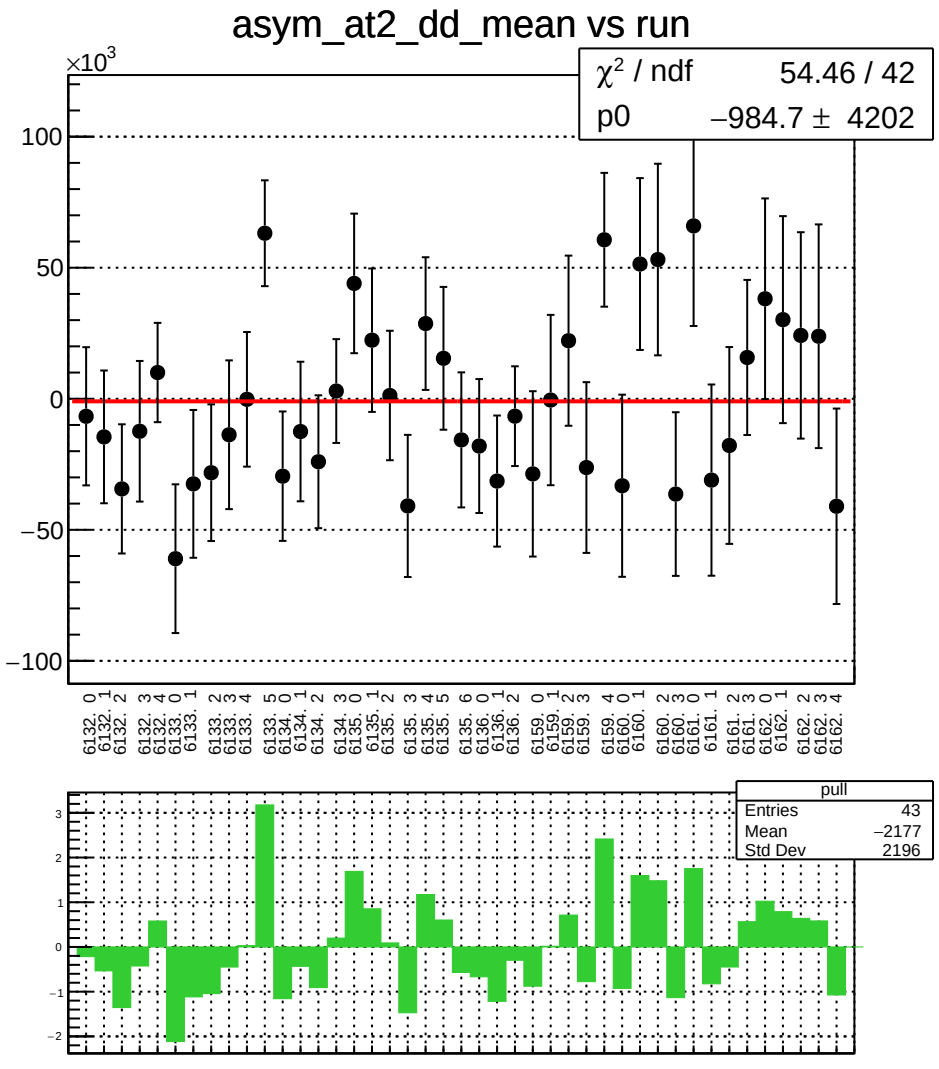

pull1D
Entries 43
Mean −0.02552
Std Dev 0.9759
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

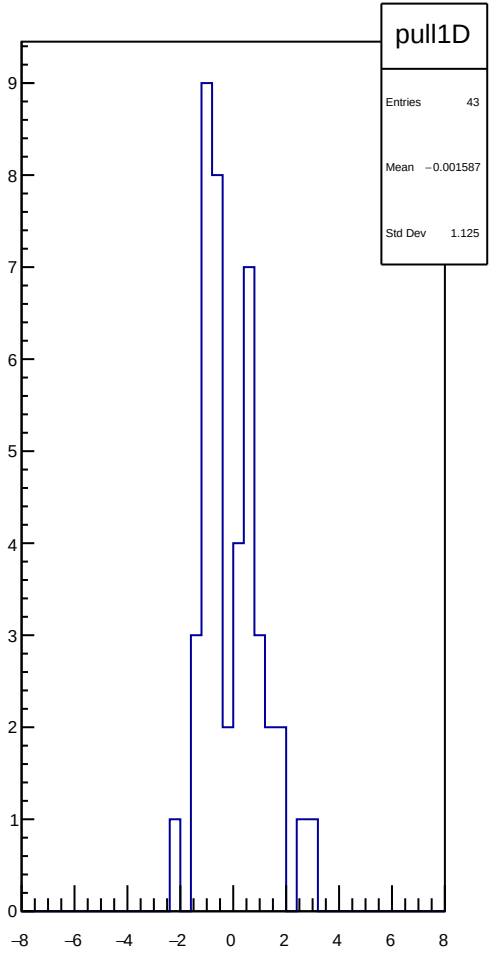

reg_asym_at2_dd_rms vs run
χ² / ndf 65.33 / 42
p0 1576 ± 1.687
1620
1600
1580
1560
1540
1520
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

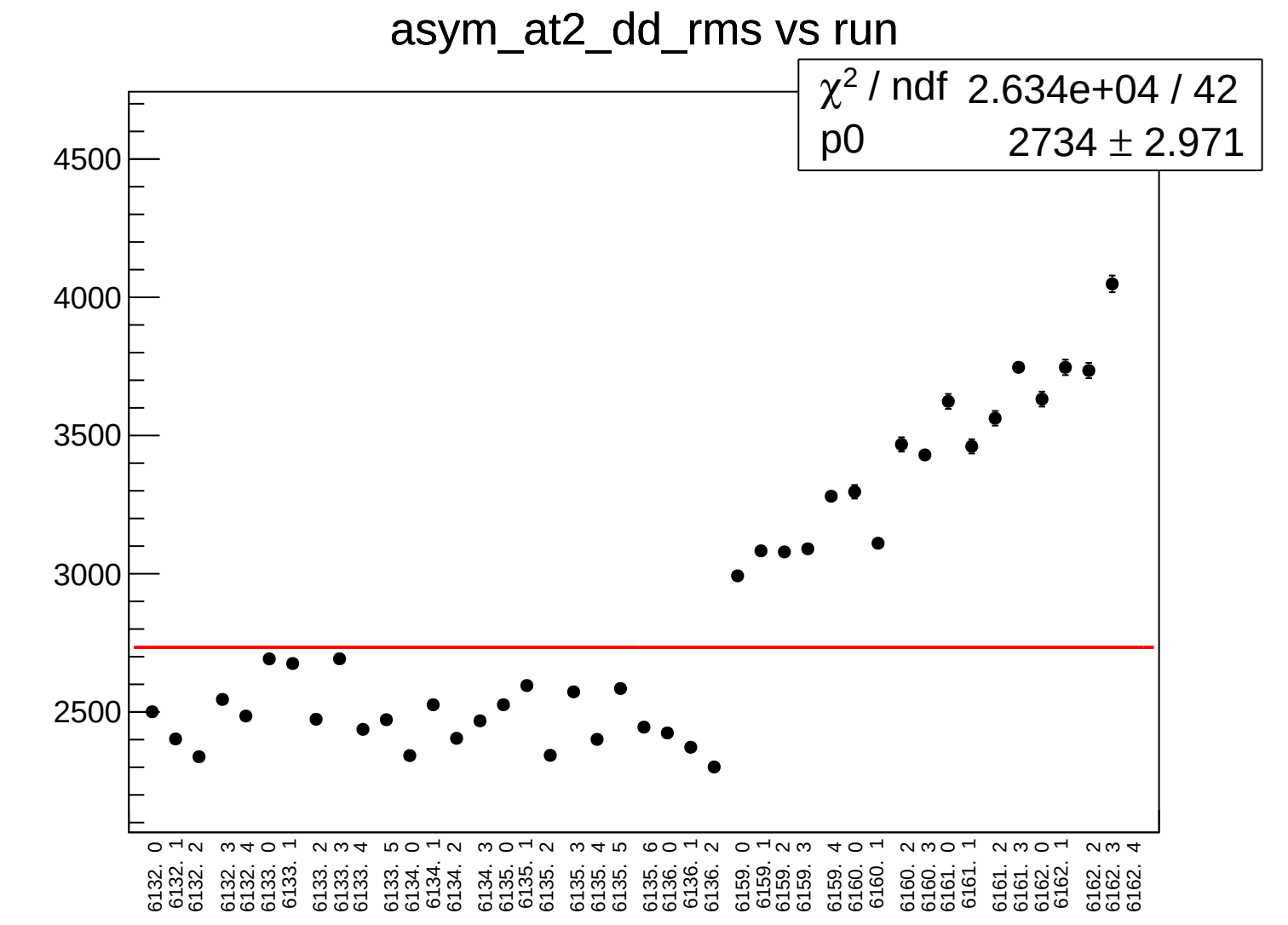

asym_at2_dd_correction_mean vs run
×10^3
χ² / ndf 38.96 / 42
p0 2335 ± 3344
pull
Entries 43
Mean 245.6
Std Dev 226.1

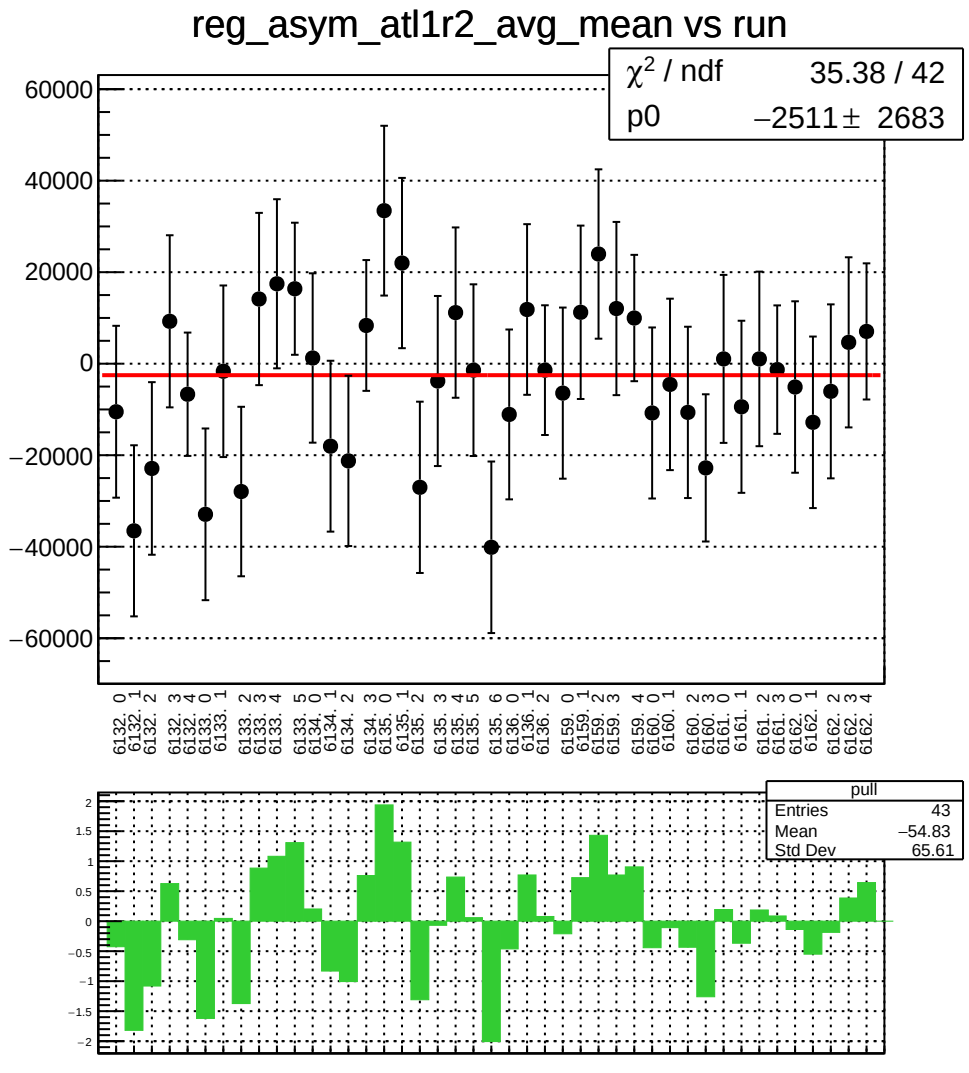

pull1D
Entries 43
Mean −0.01662
Std Dev 0.9517

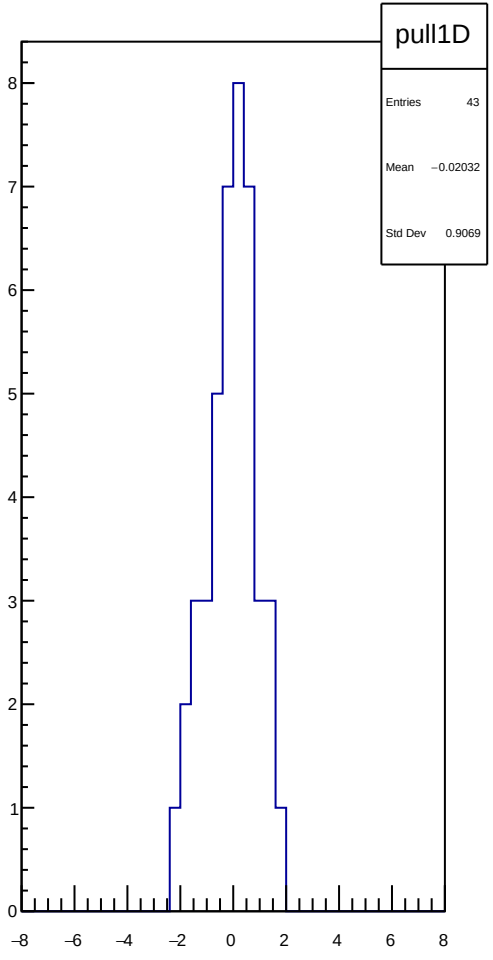

asym_at2_dd_correction_rms vs run
χ² / ndf 4.838e+04 / 42
p0 2147 ± 2.364
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

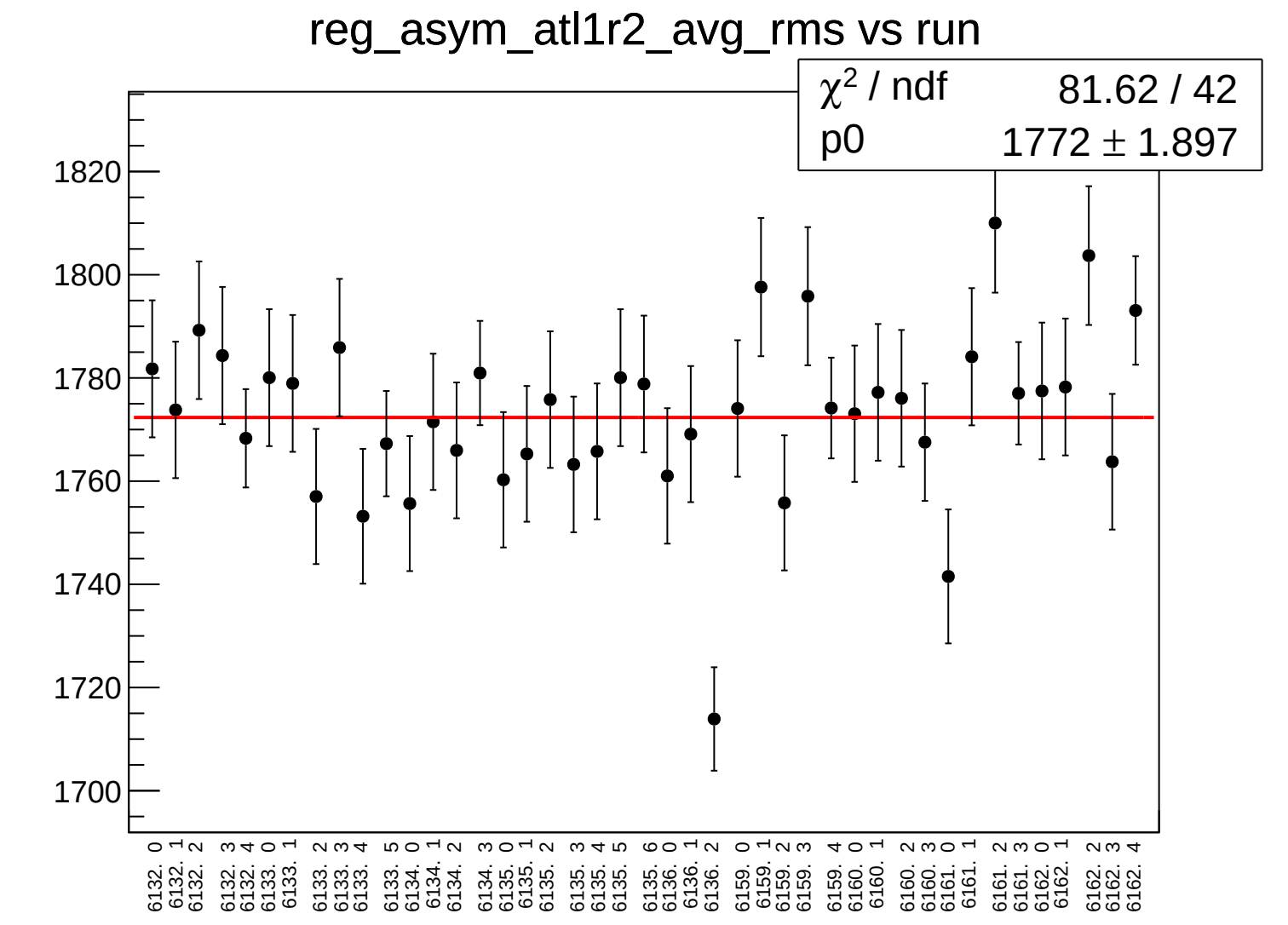

asym_at2_dd_mean vs run
×10^3
χ² / ndf 54.46 / 42
p0 −984.7 ± 4202
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −2177
Std Dev 2196
3
2
1
0
−1
−2

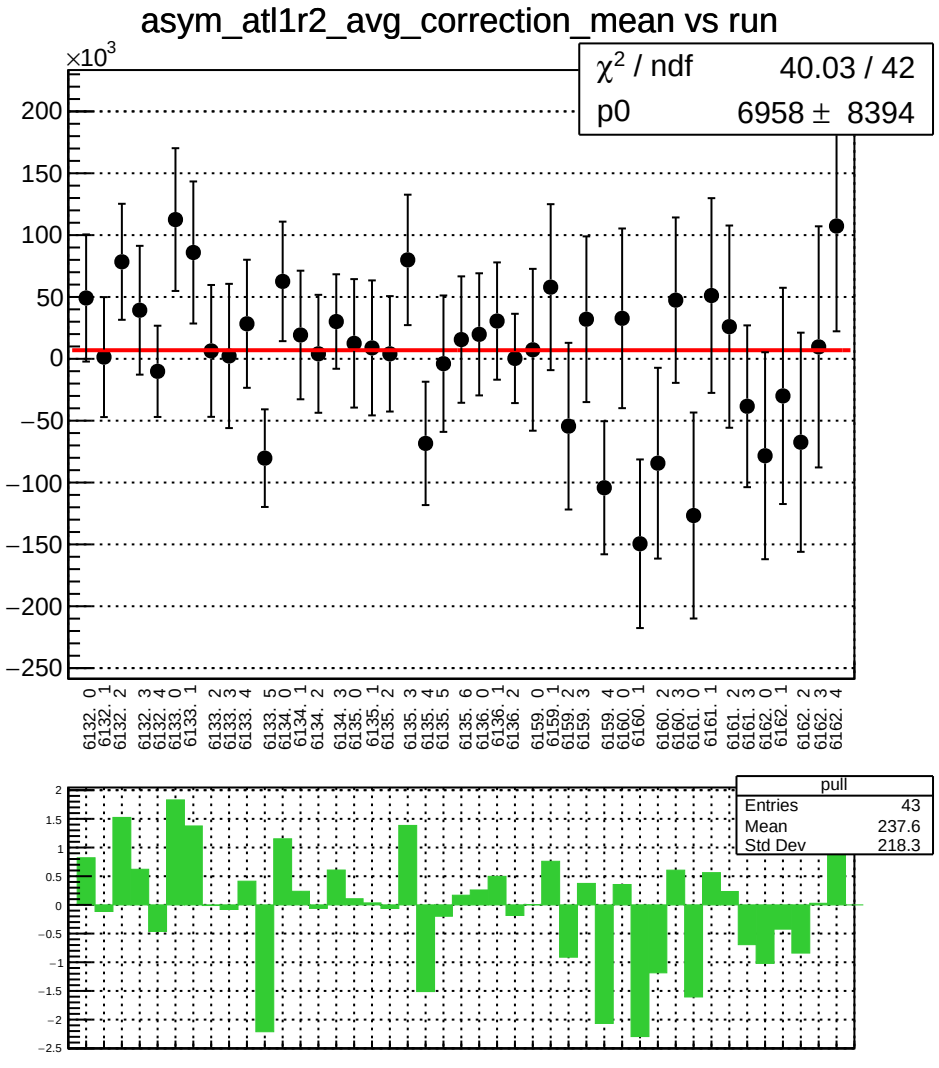

pull1D
Entries 43
Mean −0.001587
Std Dev 1.125
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

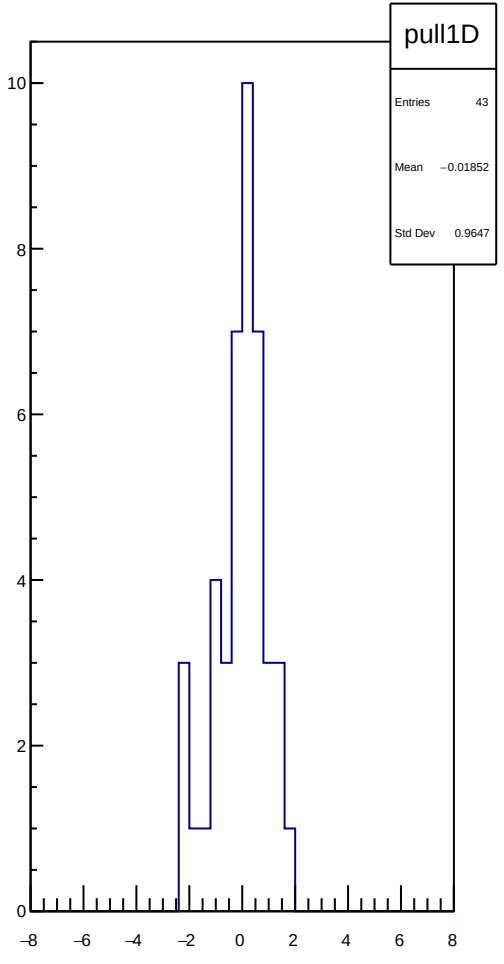

asym_at2_dd_rms vs run
χ² / ndf 2.634e+04 / 42
p0 2734 ± 2.971
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

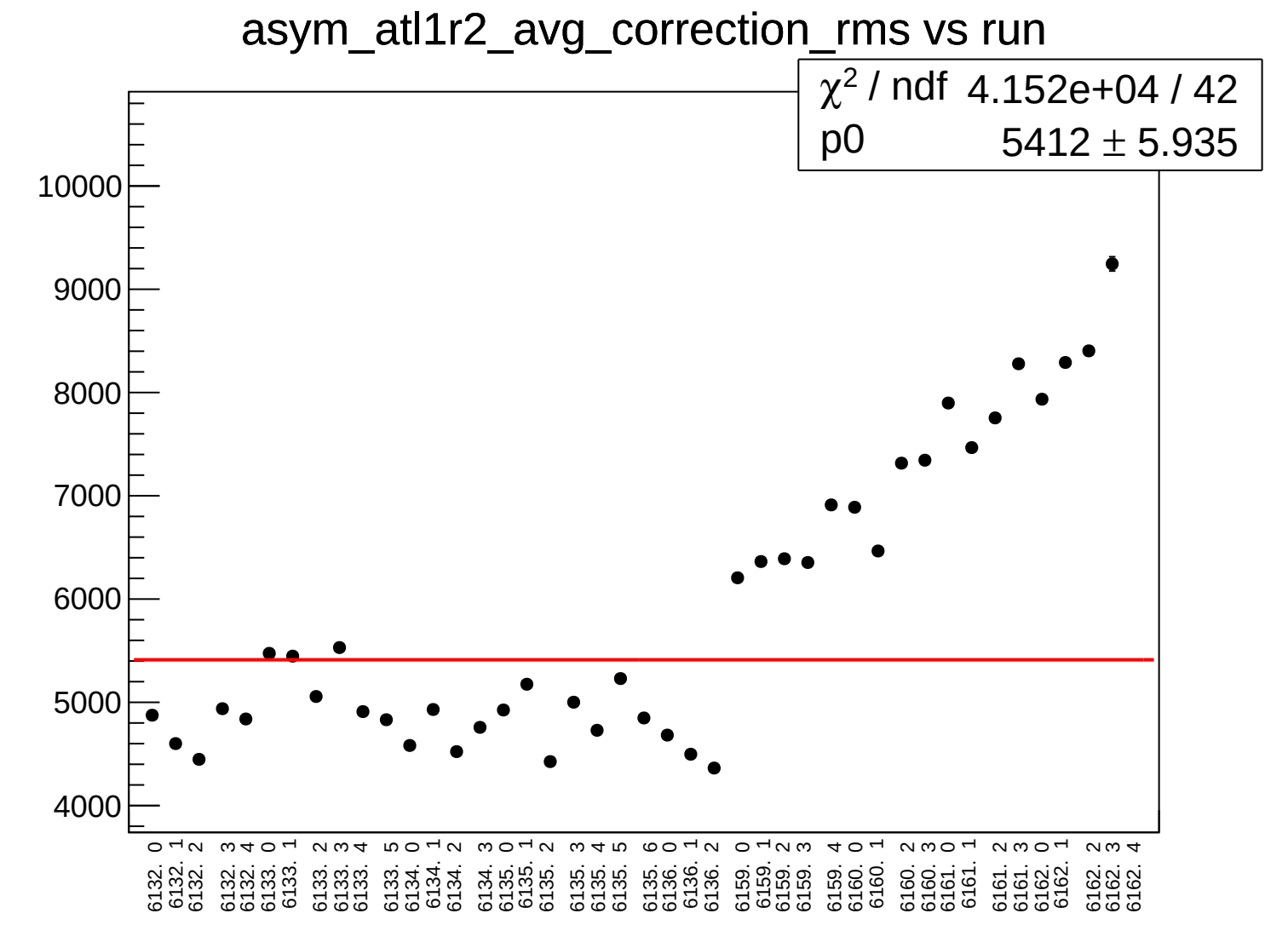

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 35.38 / 42
p0 −2511 ± 2683
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −54.83
Std Dev 65.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

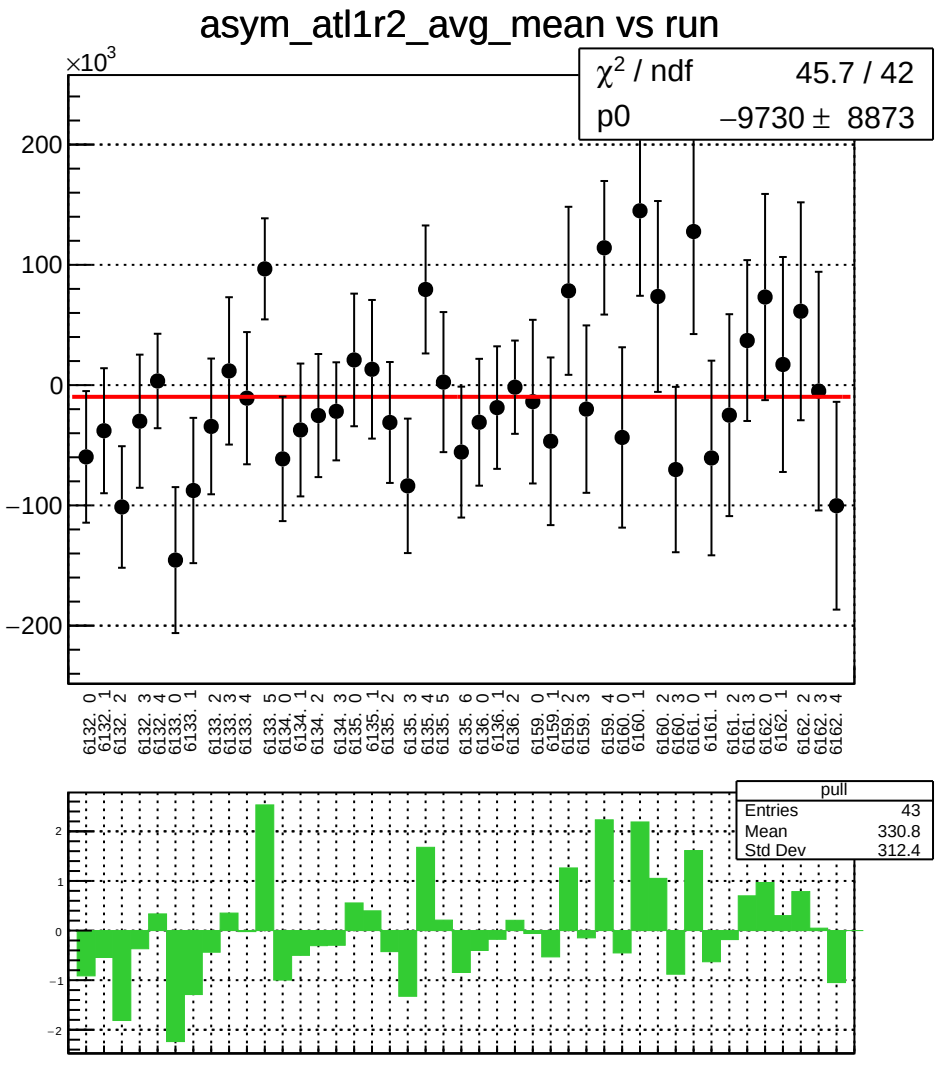

pull1D
Entries 43
Mean −0.02032
Std Dev 0.9069
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

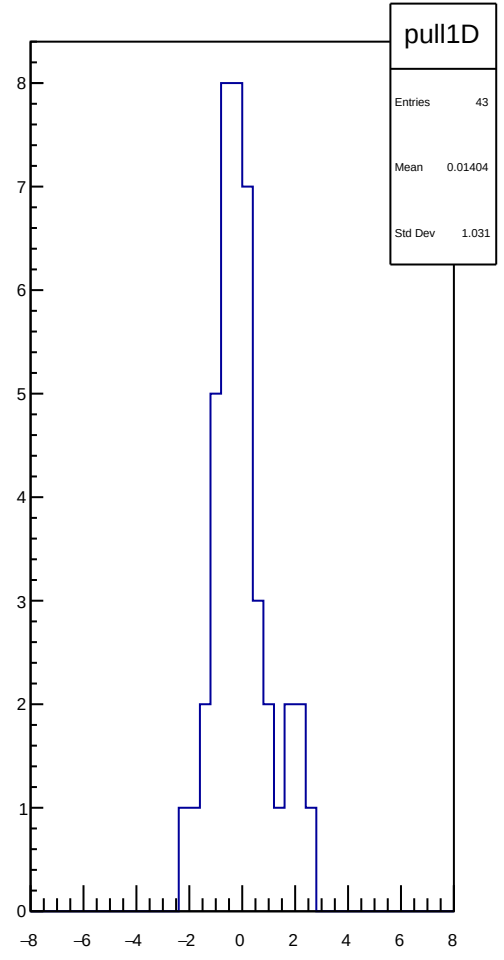

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 81.62 / 42
p0 1772 ± 1.897
1820
1800
1780
1760
1740
1720
1700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

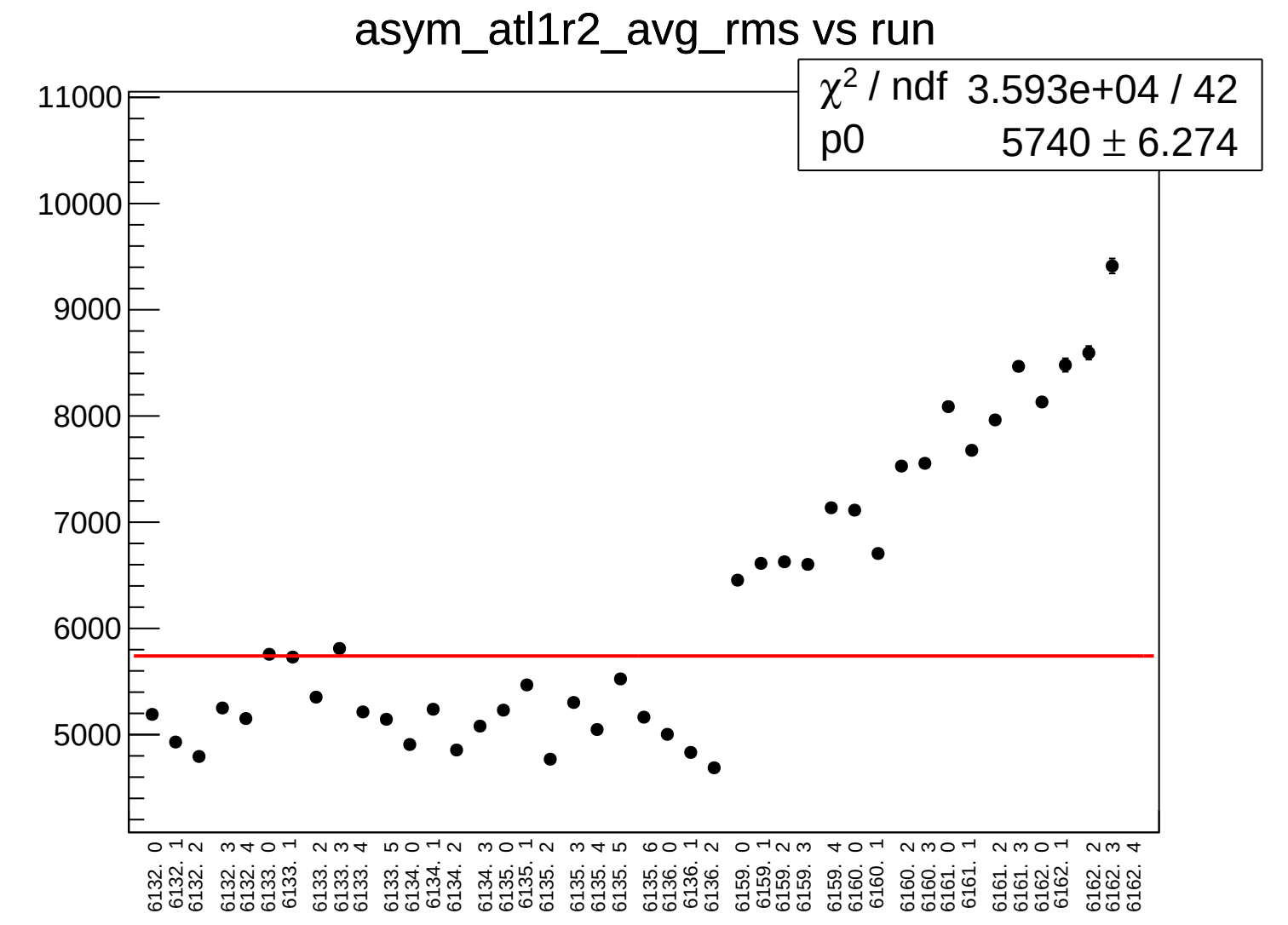

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 40.03 / 42
p0 6958 ± 8394
pull
Entries 43
Mean 237.6
Std Dev 218.3

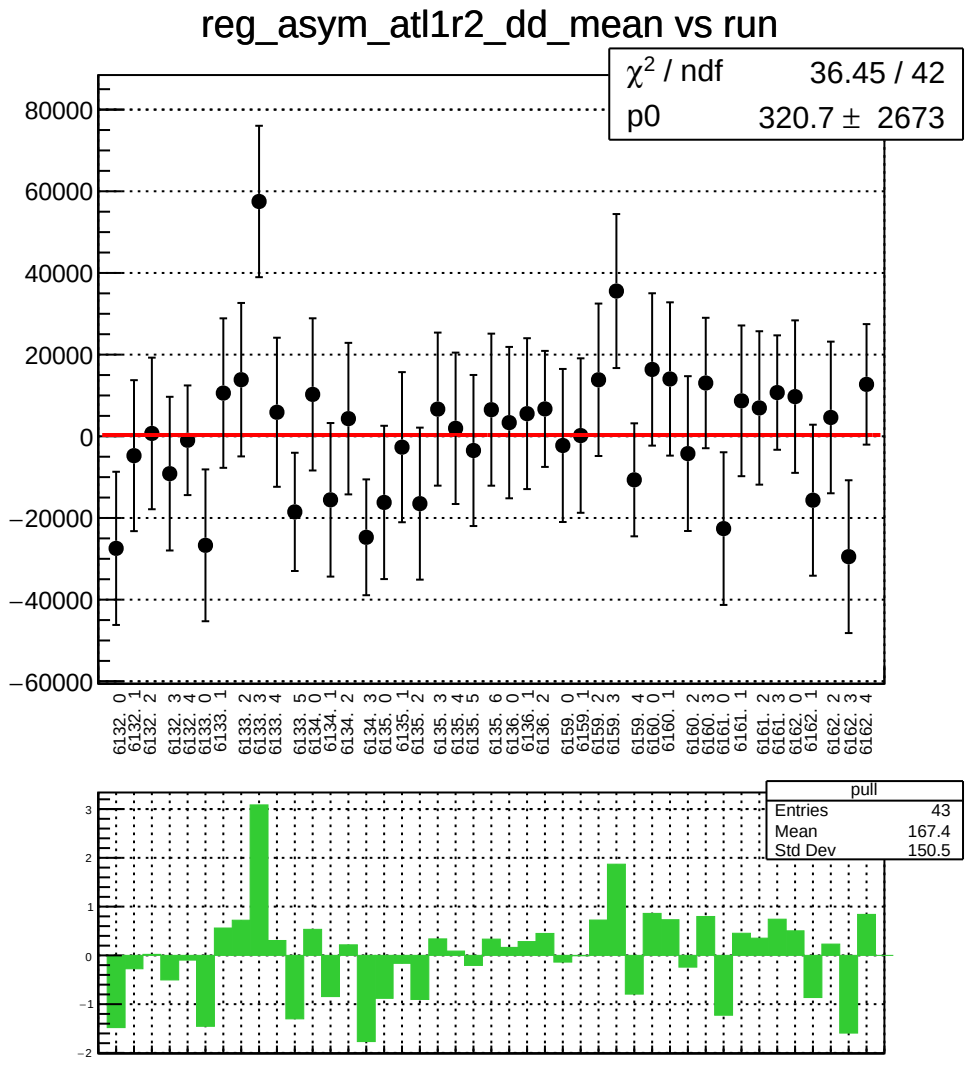

pull1D
Entries 43
Mean −0.01852
Std Dev 0.9647

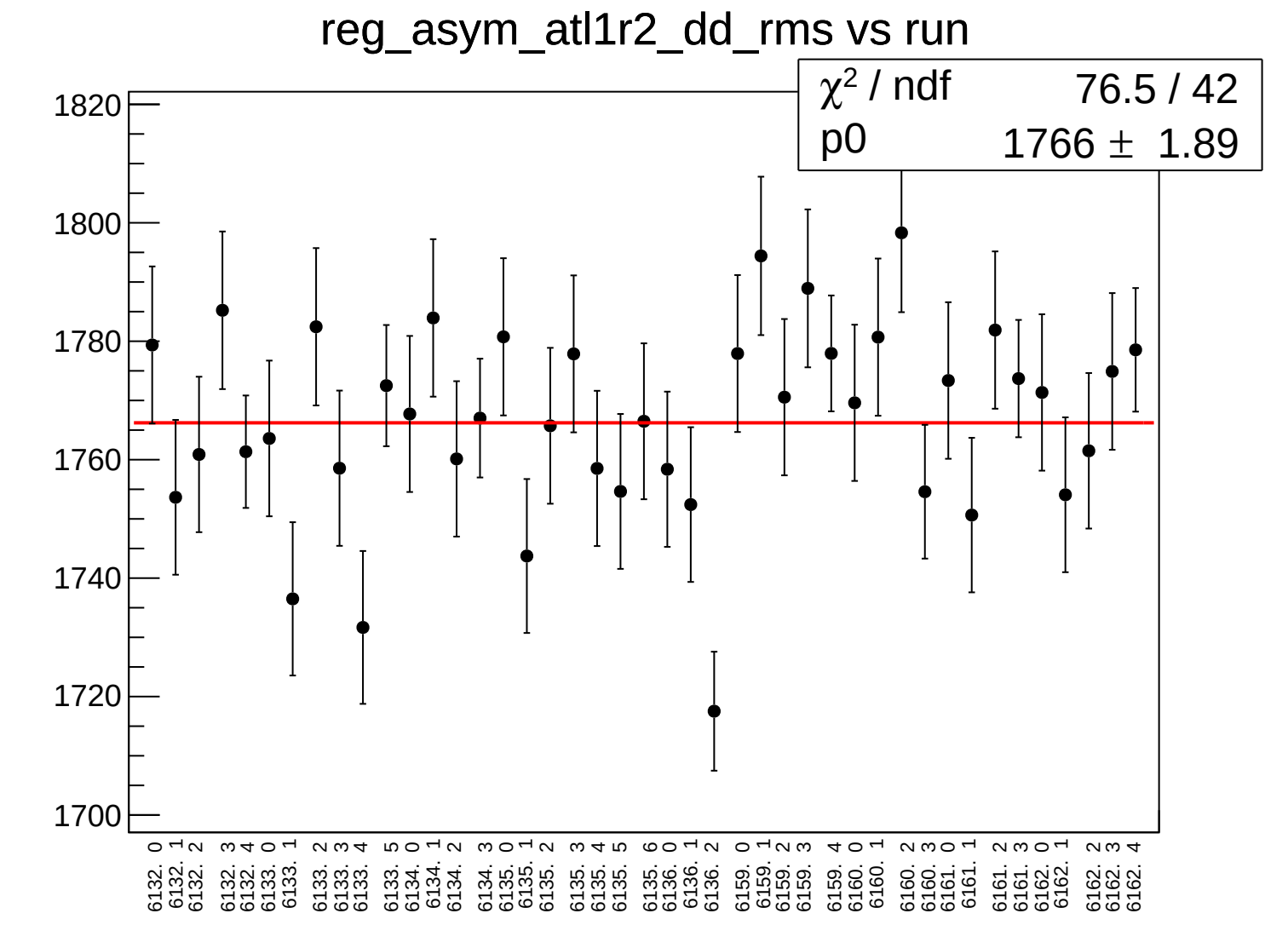

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 4.152e+04 / 42
p0 5412 ± 5.935
10000
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

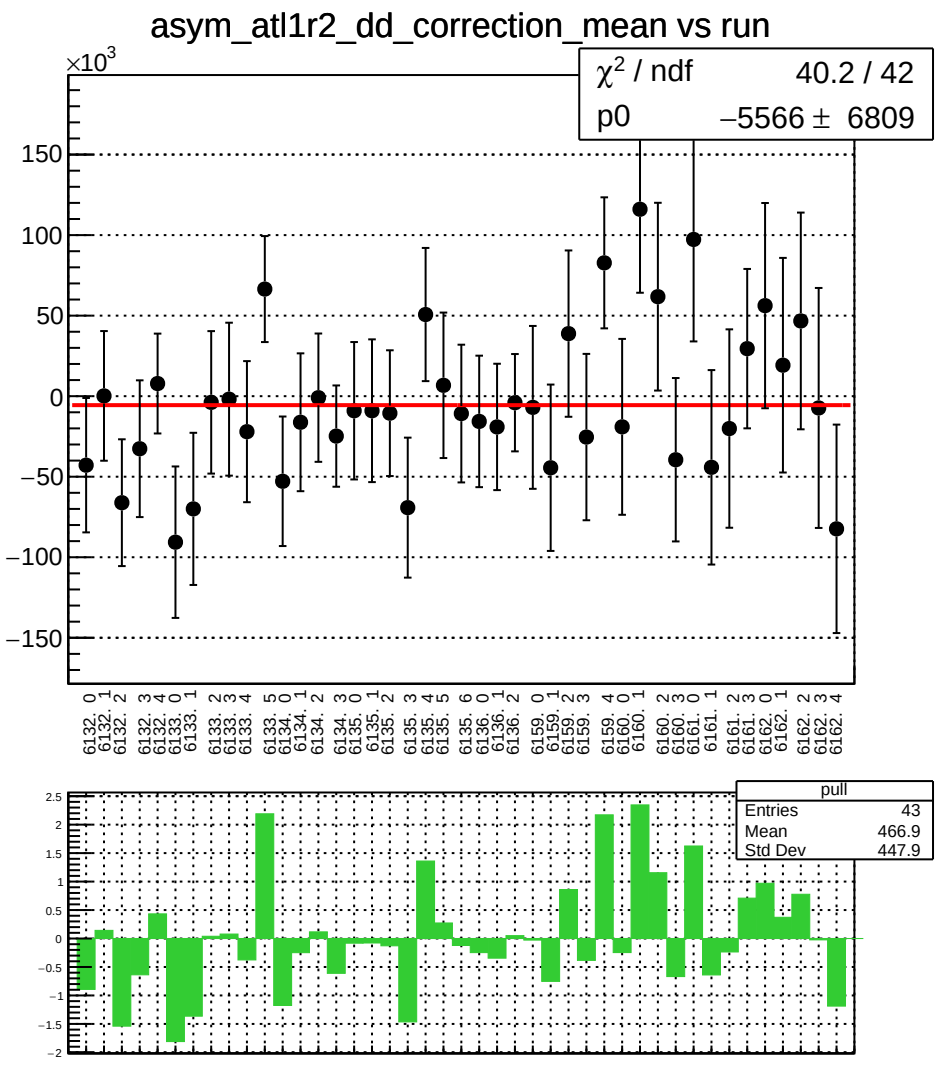

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 45.7 / 42
p0 −9730 ± 8873
200
100
0
−100
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 330.8
Std Dev 312.4
2
1
0
−1
−2

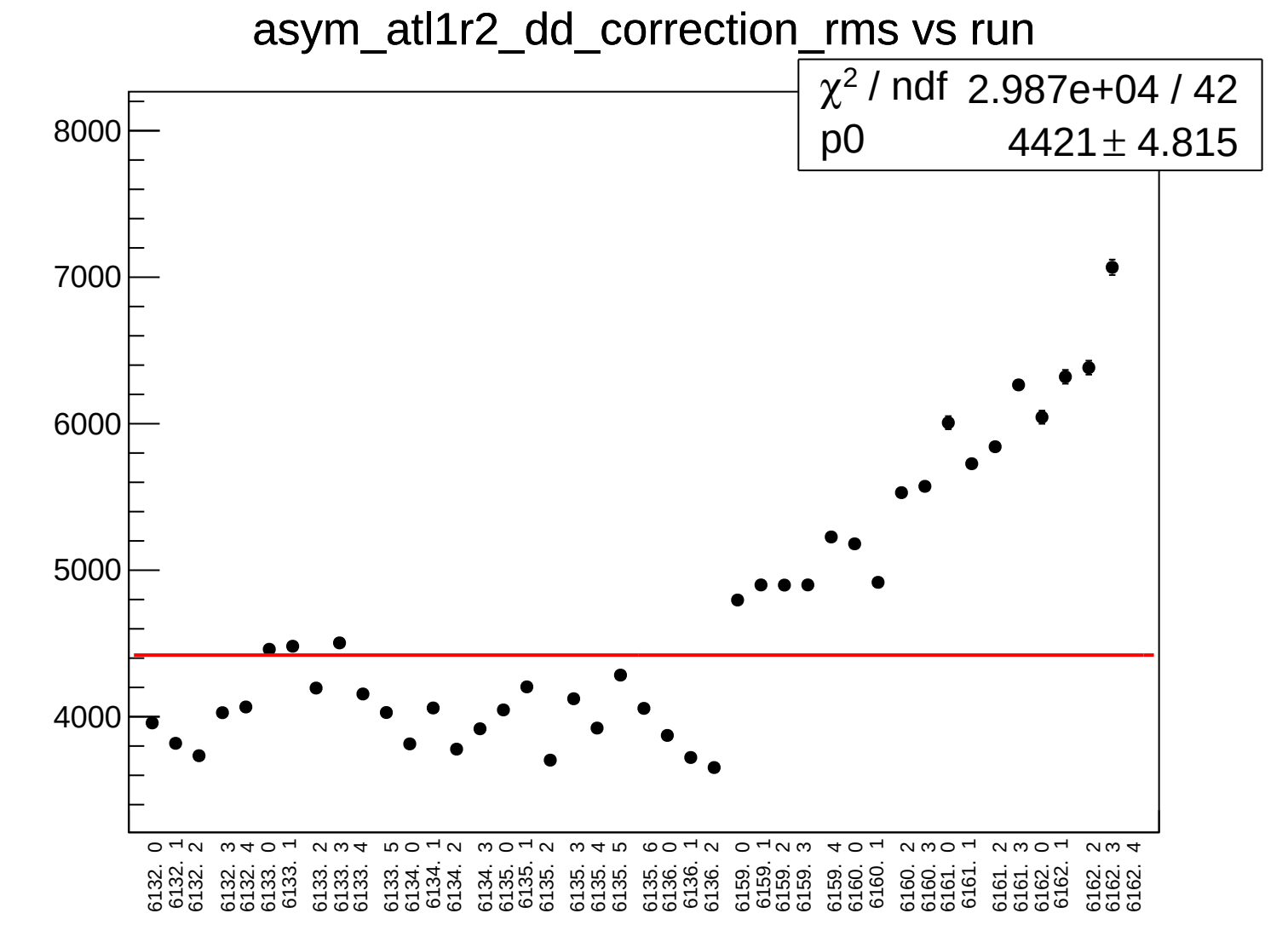

pull1D
Entries 43
Mean 0.01404
Std Dev 1.031
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

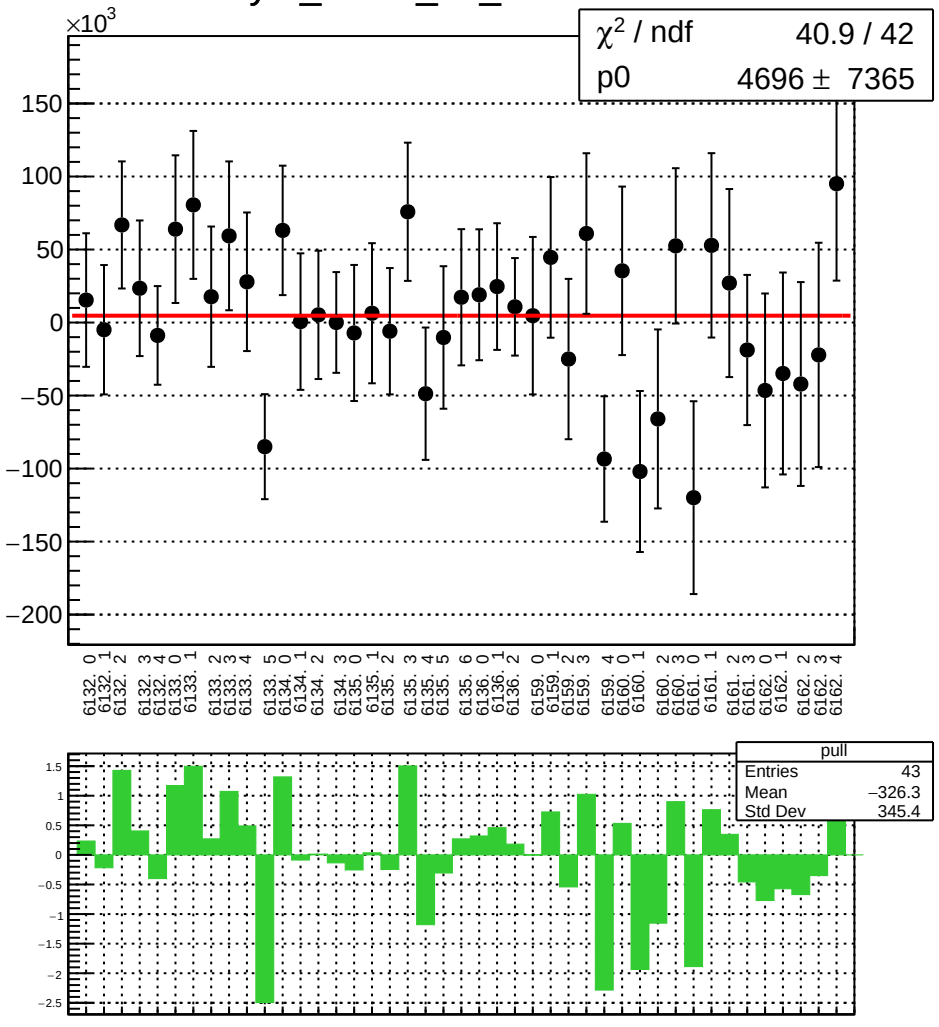

asym_atl1r2_avg_rms vs run
χ² / ndf 3.593e+04 / 42
p0 5740 ± 6.274
11000
10000
9000
8000
7000
6000
5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

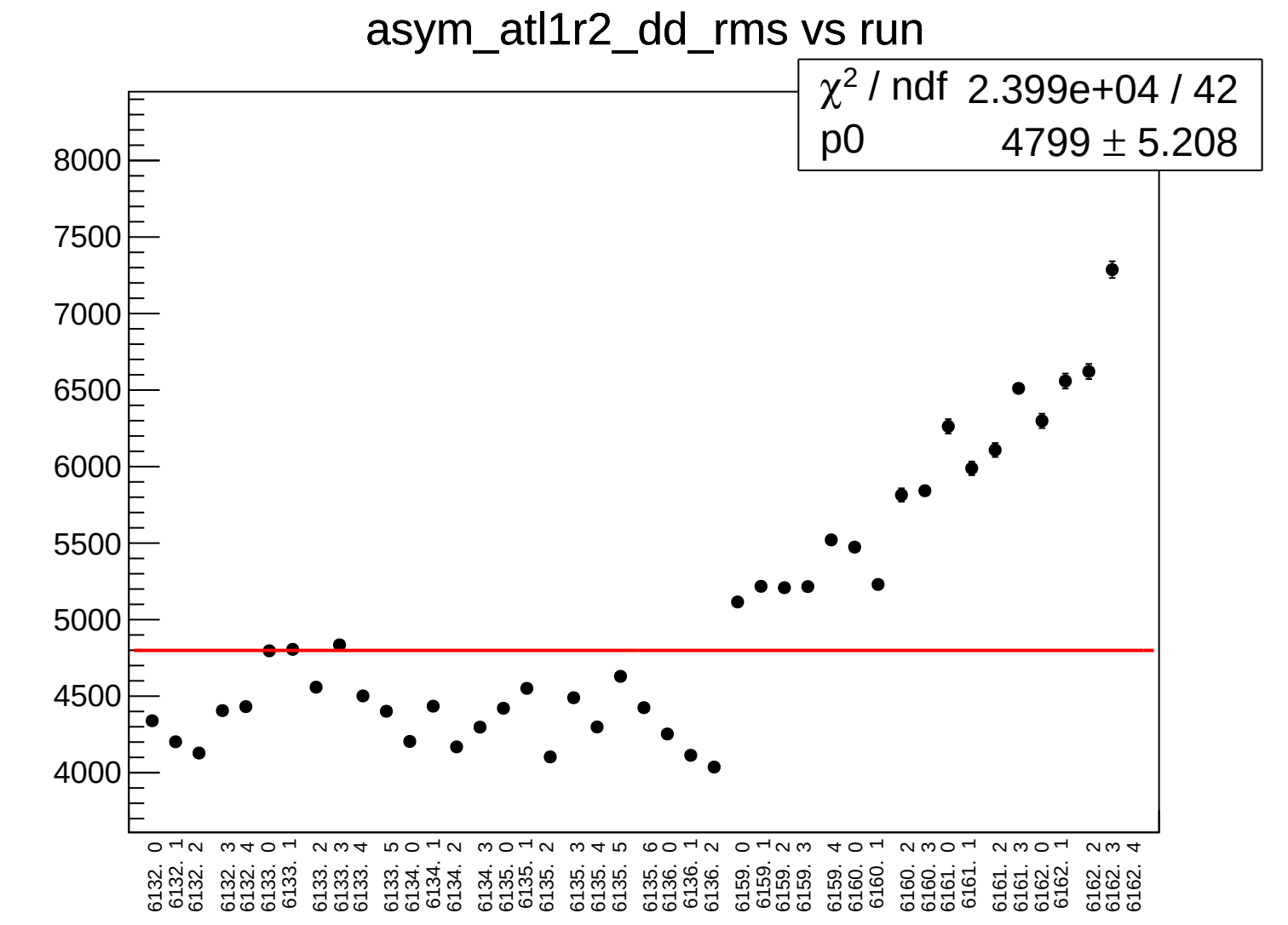

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 36.45 / 42
p0 320.7 ± 2673
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 167.4
Std Dev 150.5
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01101
Std Dev 0.9207
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

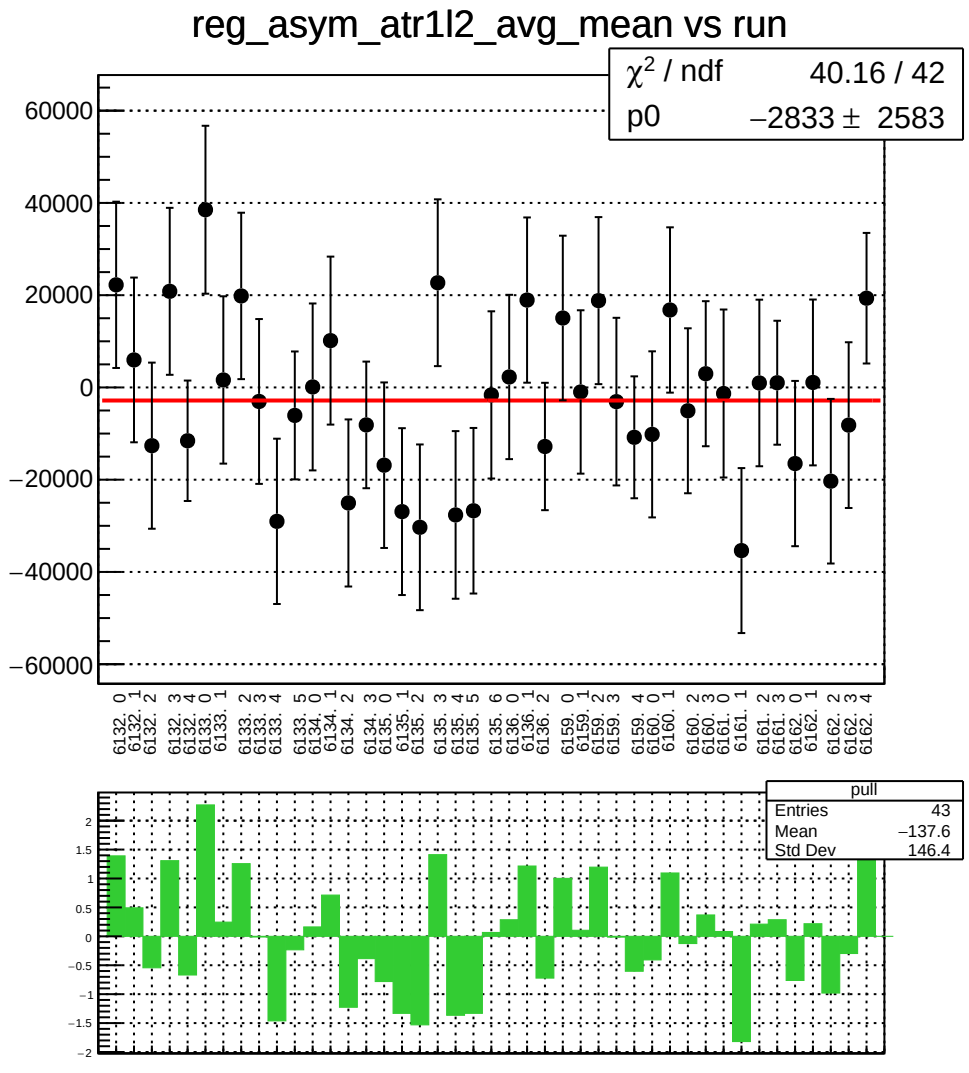

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 76.5 / 42
p0 1766 ± 1.89
1820
1800
1780
1760
1740
1720
1700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

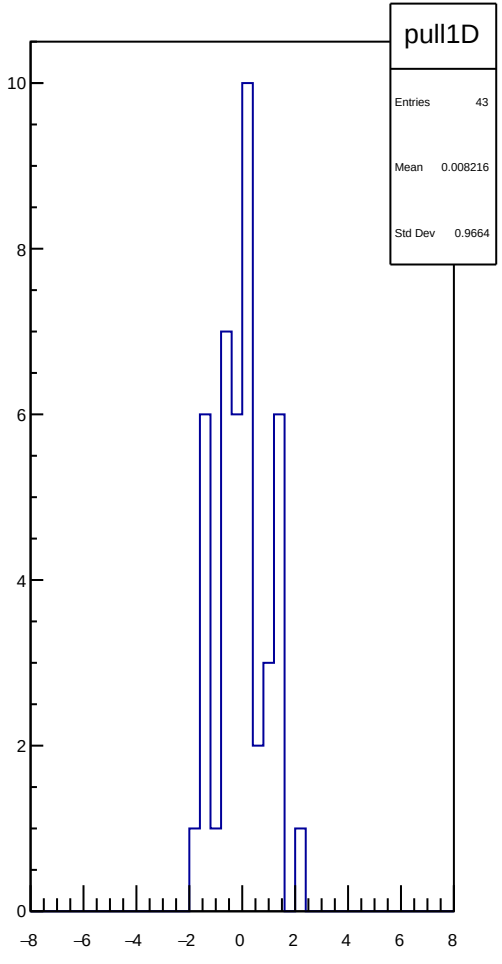

asym_atl1r2_dd_correction_mean vs run
×10^3
χ^2 / ndf 40.2 / 42
p0 −5566 ± 6809
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 466.9
Std Dev 447.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.008945
Std Dev 0.9669
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

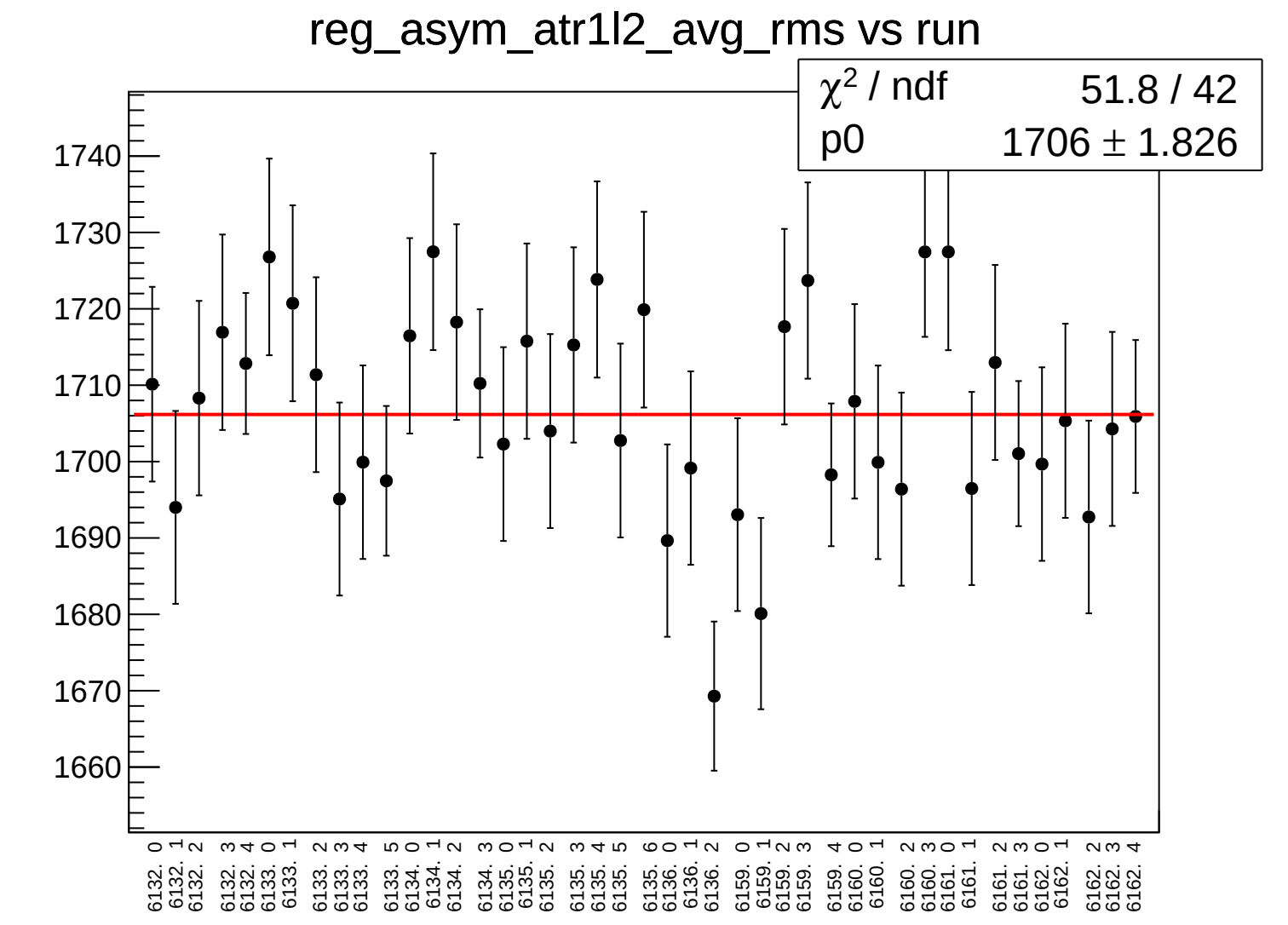

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 2.987e+04 / 42
p0 4421 ± 4.815
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

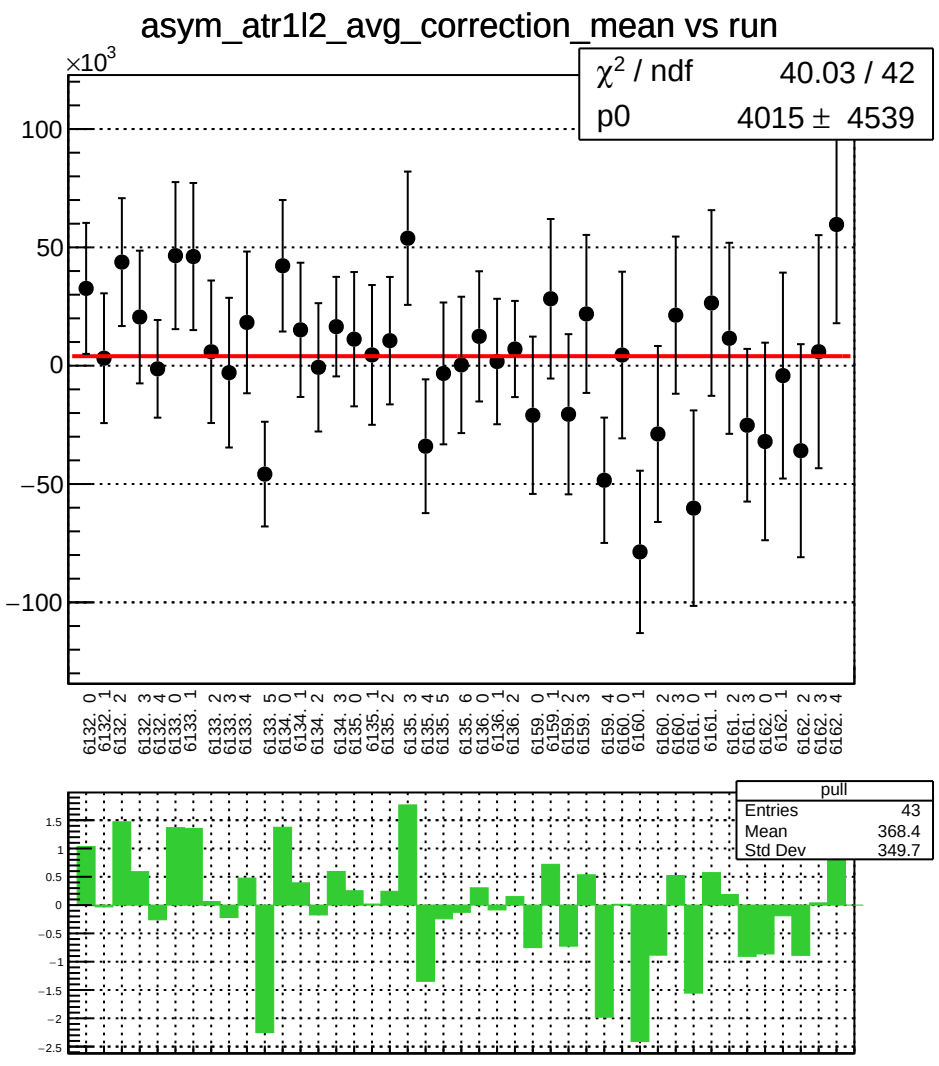

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 40.9 / 42
p0 4696 ± 7365
150
100
50
0
−50
−100
−150
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −326.3
Std Dev 345.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.008861
Std Dev 0.9752
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

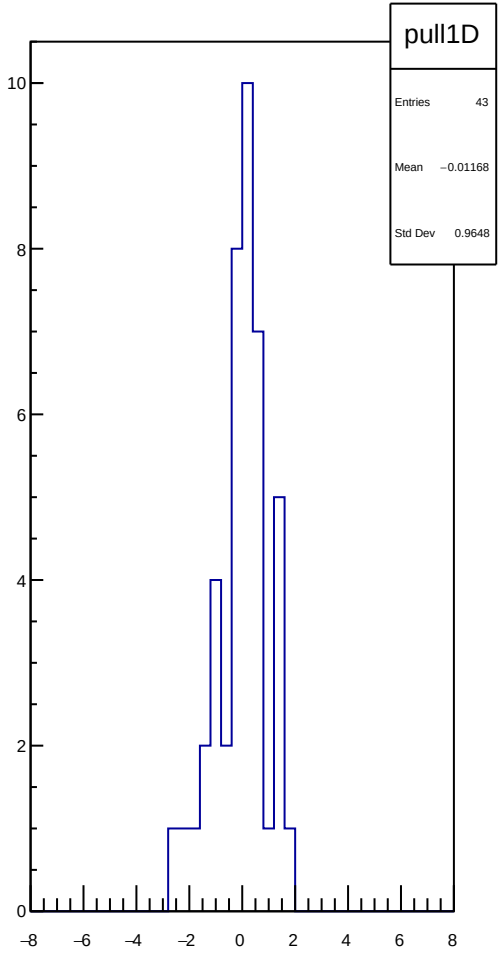

asym_atl1r2_dd_rms vs run
χ² / ndf 2.399e+04 / 42
p0 4799 ± 5.208
8000
7500
7000
6500
6000
5500
5000
4500
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

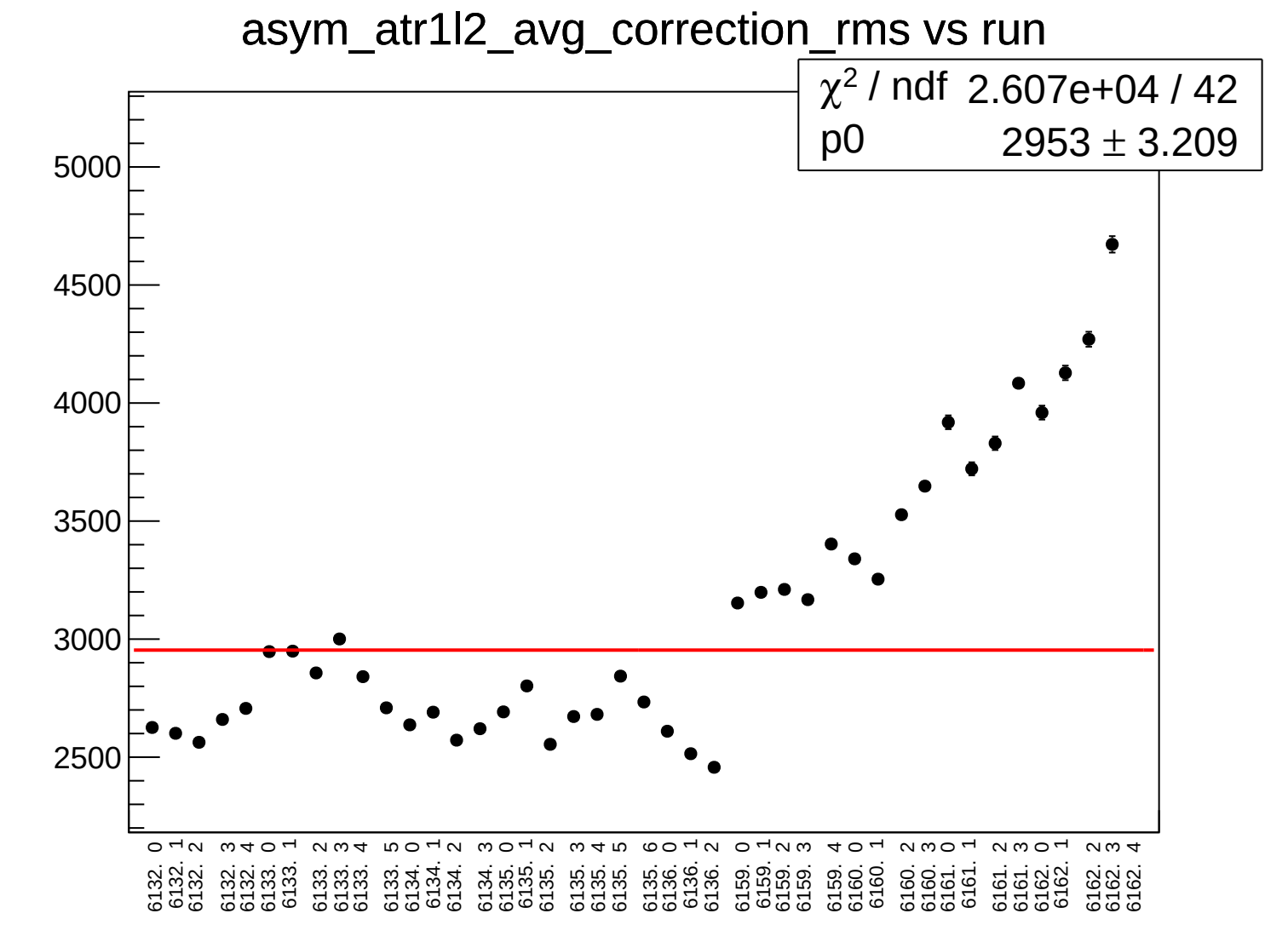

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 40.16 / 42
p0 −2833 ± 2583
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −137.6
Std Dev 146.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

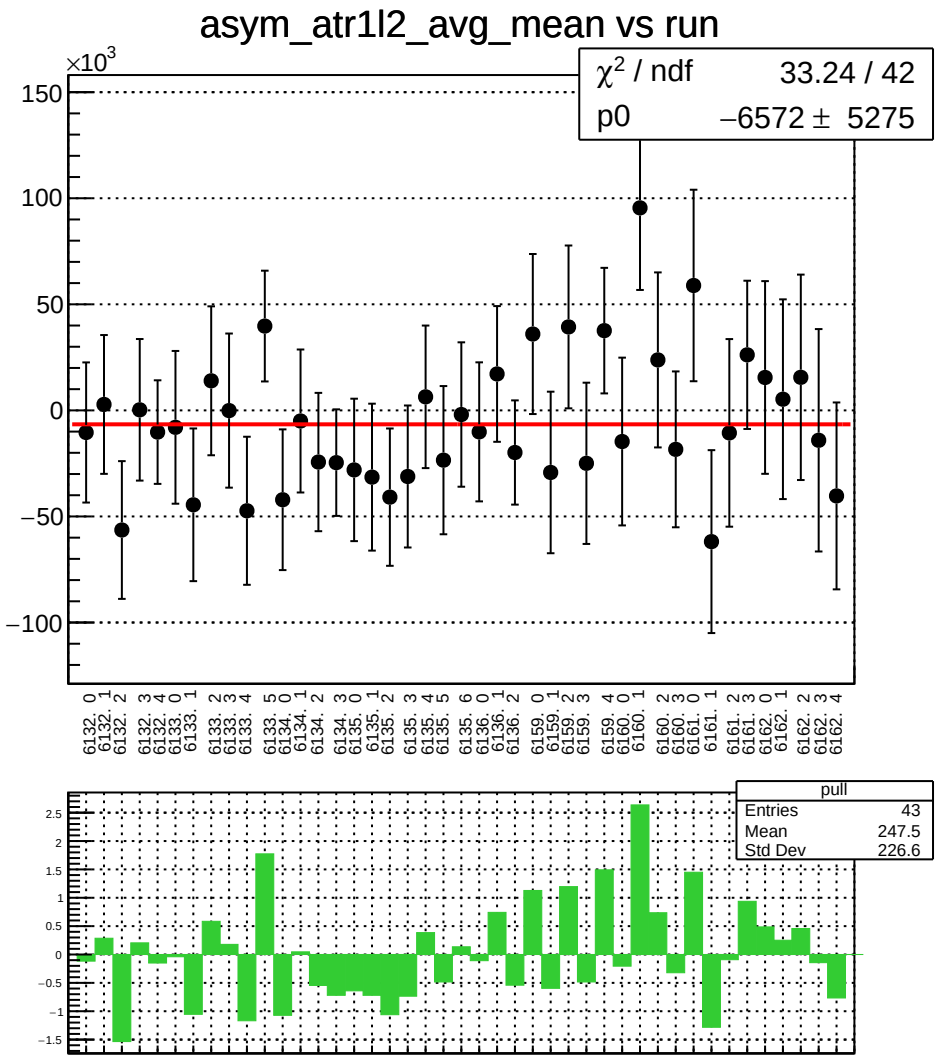

pull1D
Entries 43
Mean 0.008216
Std Dev 0.9664
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

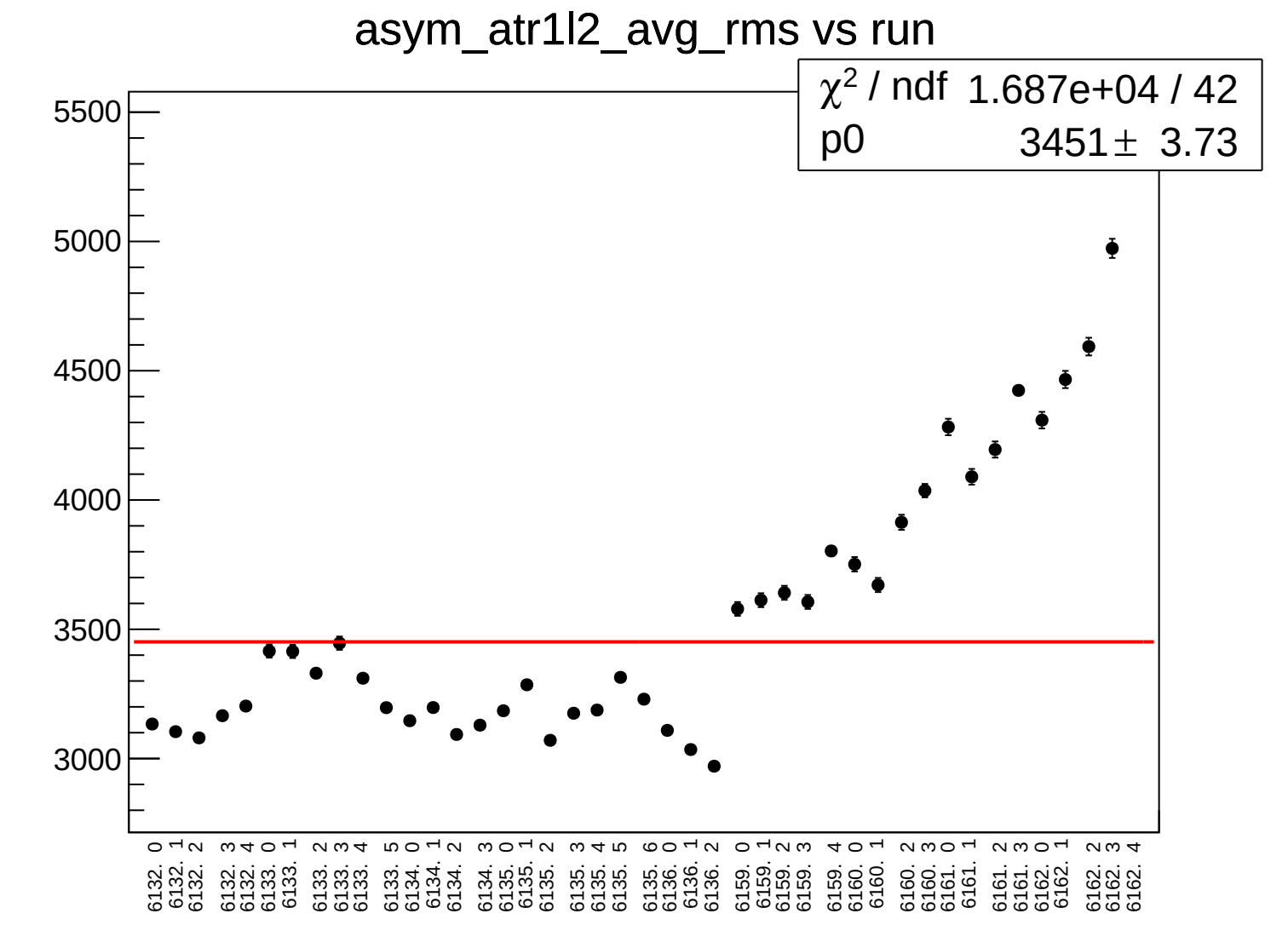

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 51.8 / 42
p0 1706 ± 1.826
1740
1730
1720
1710
1700
1690
1680
1670
1660
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

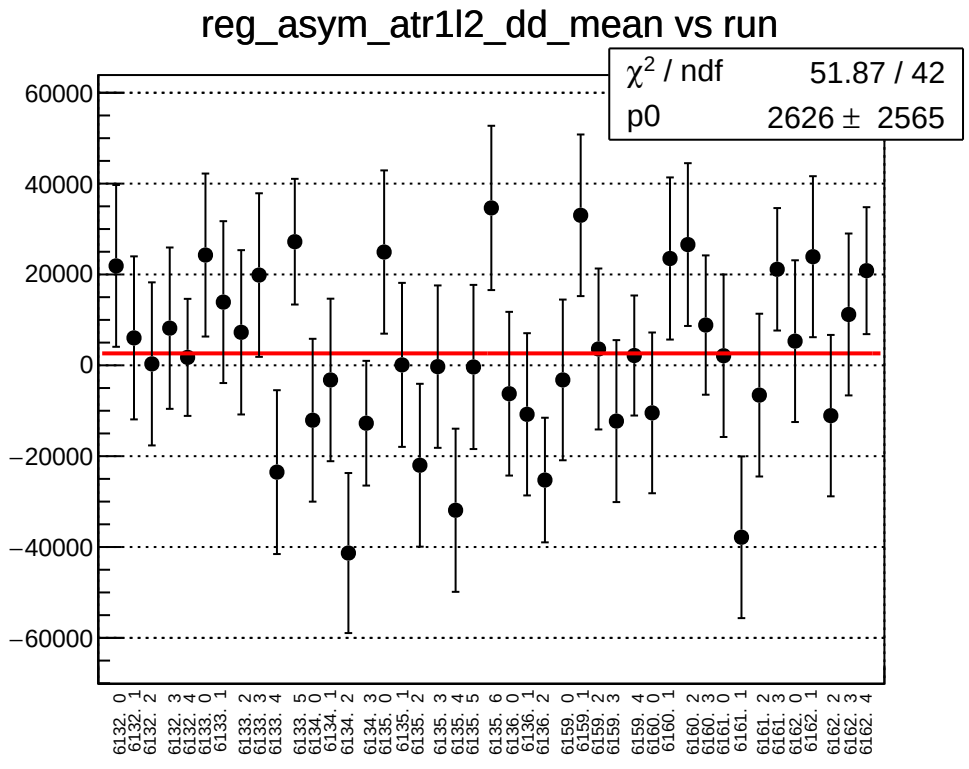

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 40.03 / 42
p0 4015 ± 4539
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 368.4
Std Dev 349.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

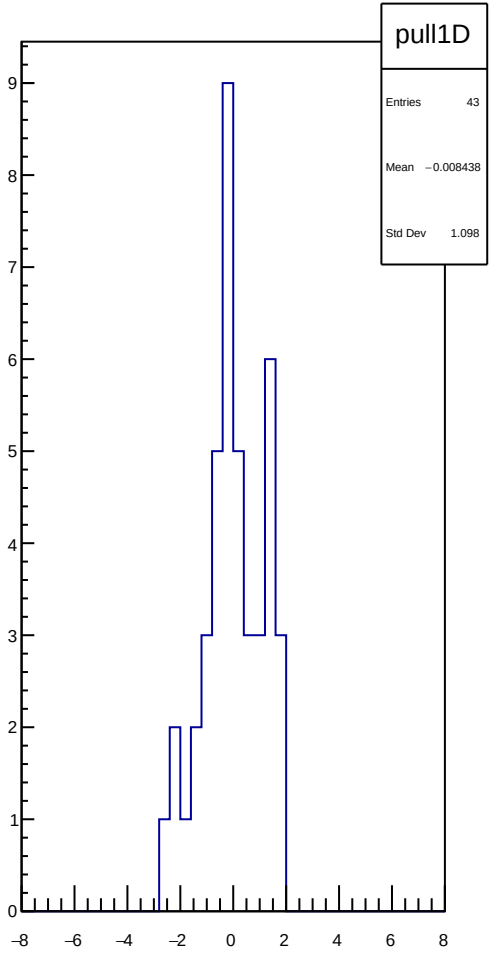

pull1D
Entries 43
Mean −0.01168
Std Dev 0.9648
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

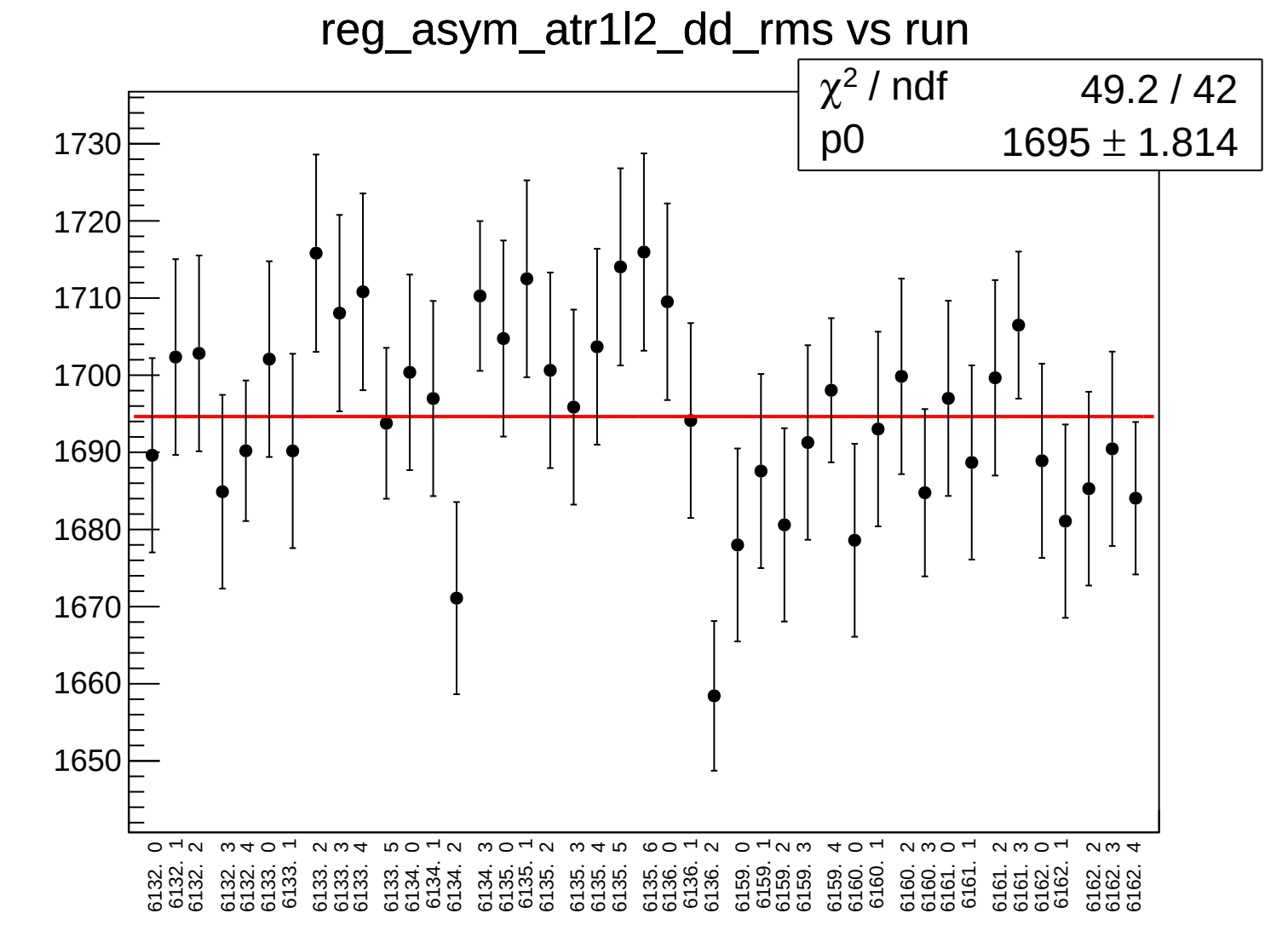

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 2.607e+04 / 42
p0 2953 ± 3.209
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

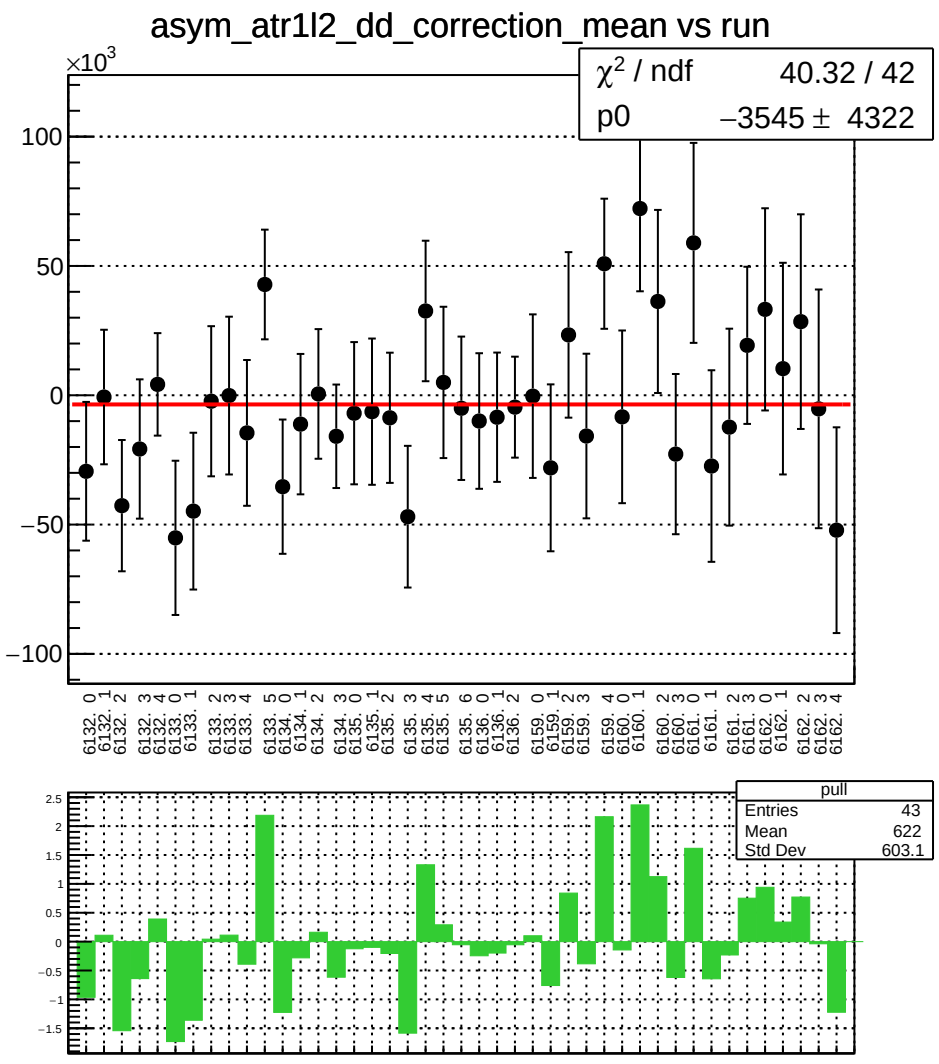

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 33.24 / 42
p0 −6572 ± 5275
150
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 247.5
Std Dev 226.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01248
Std Dev 0.8791
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

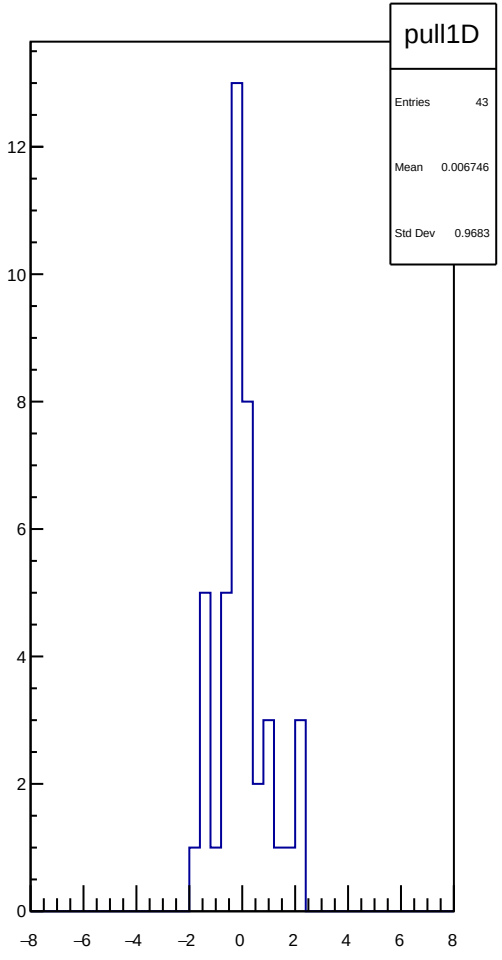

asym_atr1l2_avg_rms vs run
χ² / ndf 1.687e+04 / 42
p0 3451 ± 3.73
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

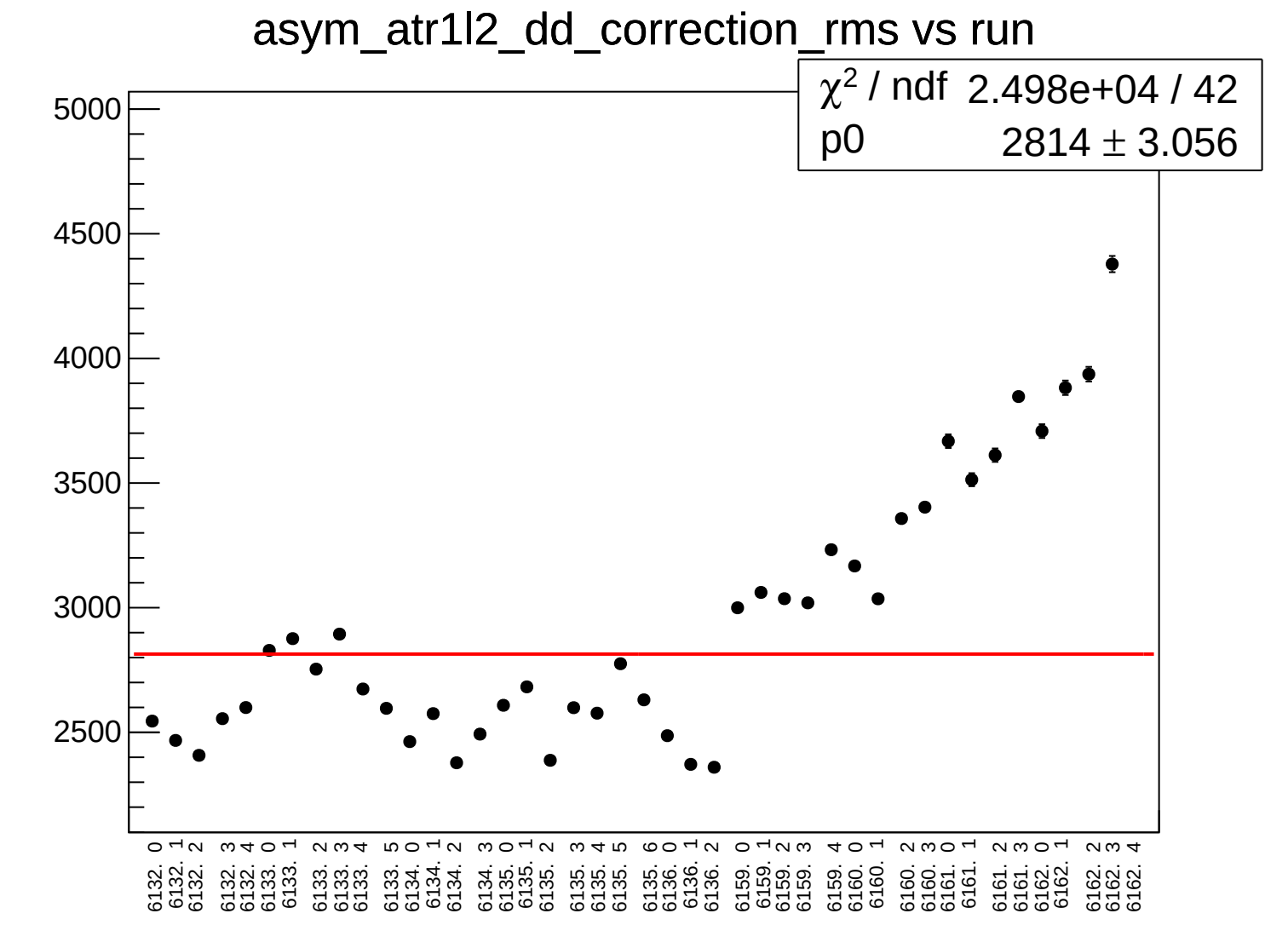

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 51.87 / 42
p0 2626 ± 2565
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −14.89
Std Dev 81.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

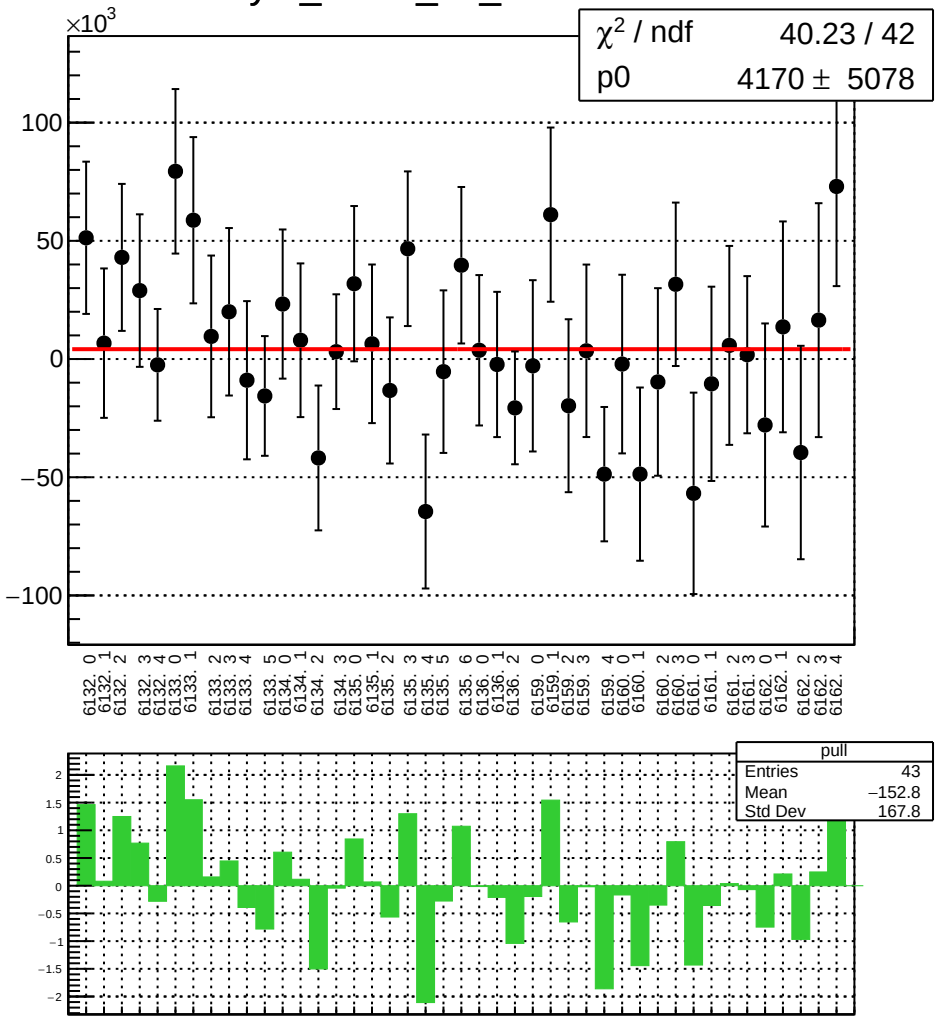

pull1D
Entries 43
Mean −0.008438
Std Dev 1.098
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_dd_rms vs run
χ² / ndf 49.2 / 42
p0 1695 ± 1.814
1730
1720
1710
1700
1690
1680
1670
1660
1650
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atr1l2_dd_correction_mean vs run
×10^3
χ² / ndf 40.32 / 42
p0 −3545 ± 4322
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 622
Std Dev 603.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 43
Mean 0.006746
Std Dev 0.9683
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_correction_rms vs run
χ² / ndf 2.498e+04 / 42
p0 2814 ± 3.056
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 40.23 / 42
p0 4170 ± 5078
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6134. 2
6134. 3
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6135. 1
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6136. 0
6136. 1
6136. 2
6159. 0
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6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
6161. 3
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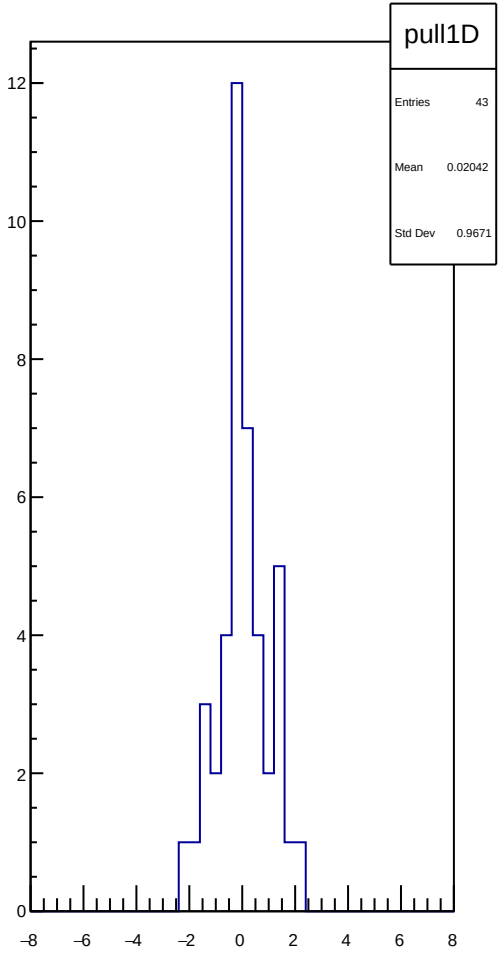
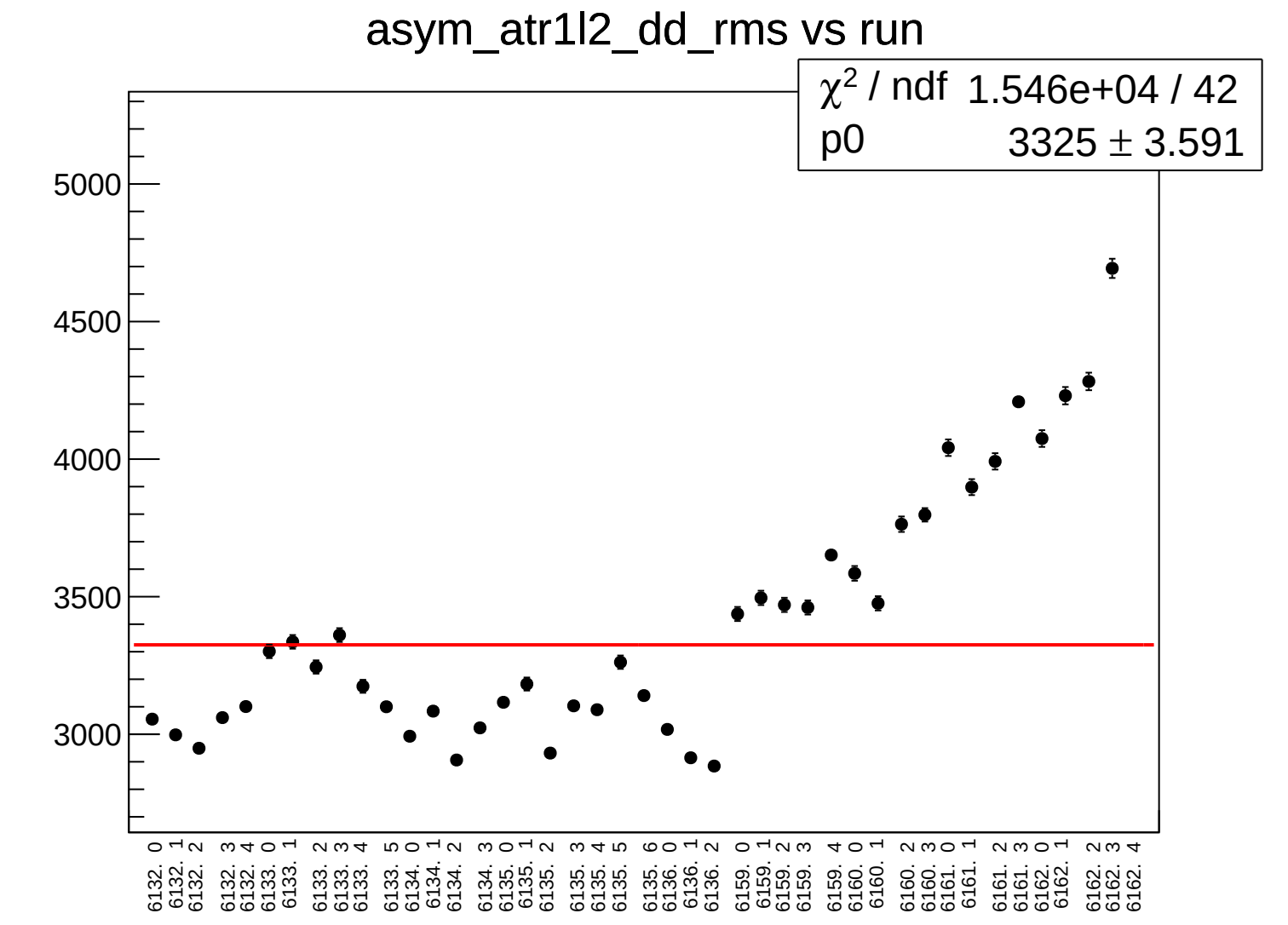
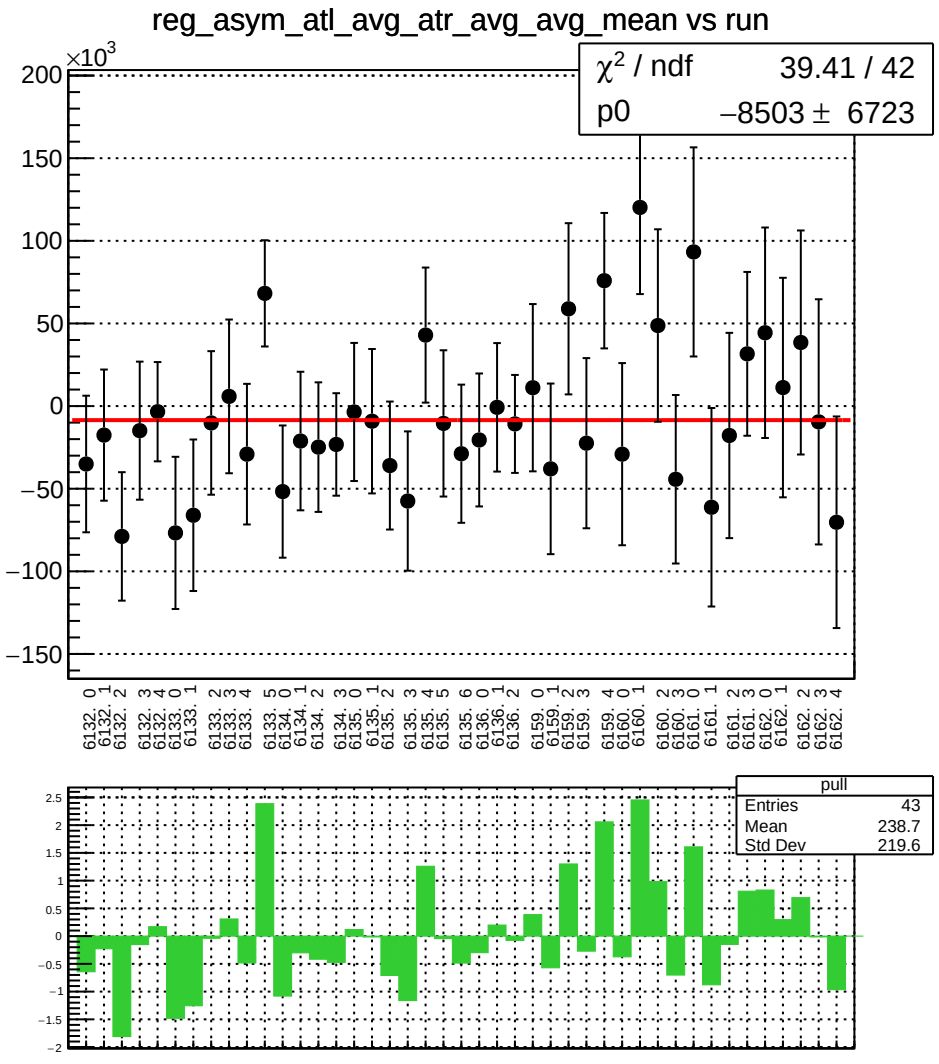
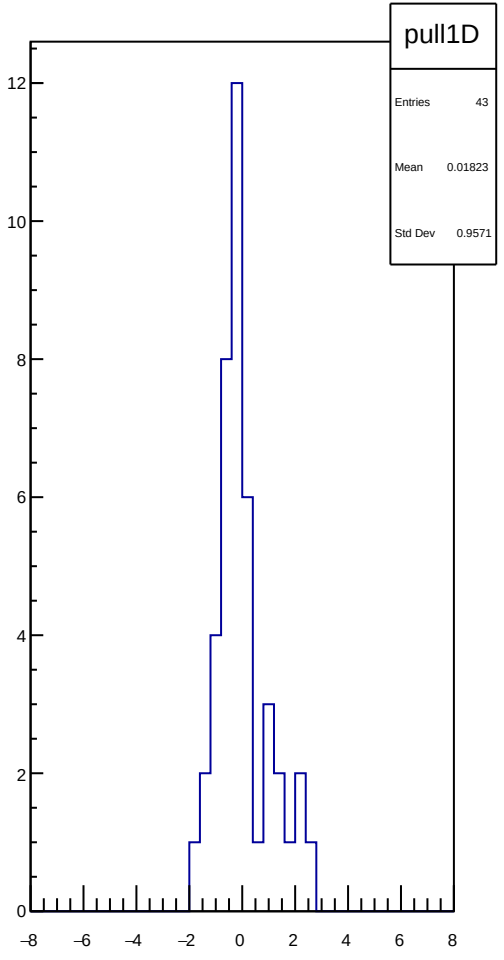
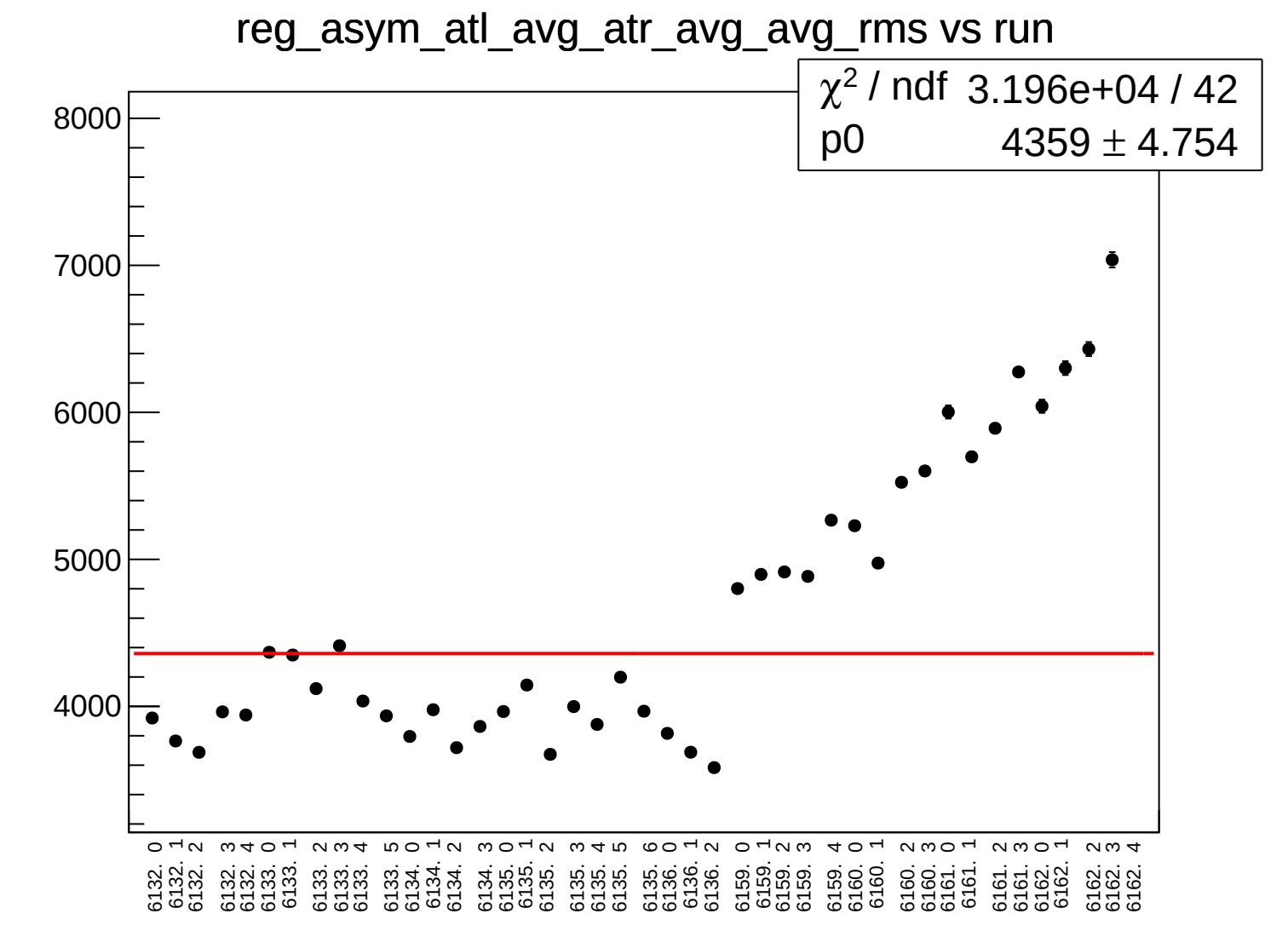
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −152.8
Std Dev 167.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

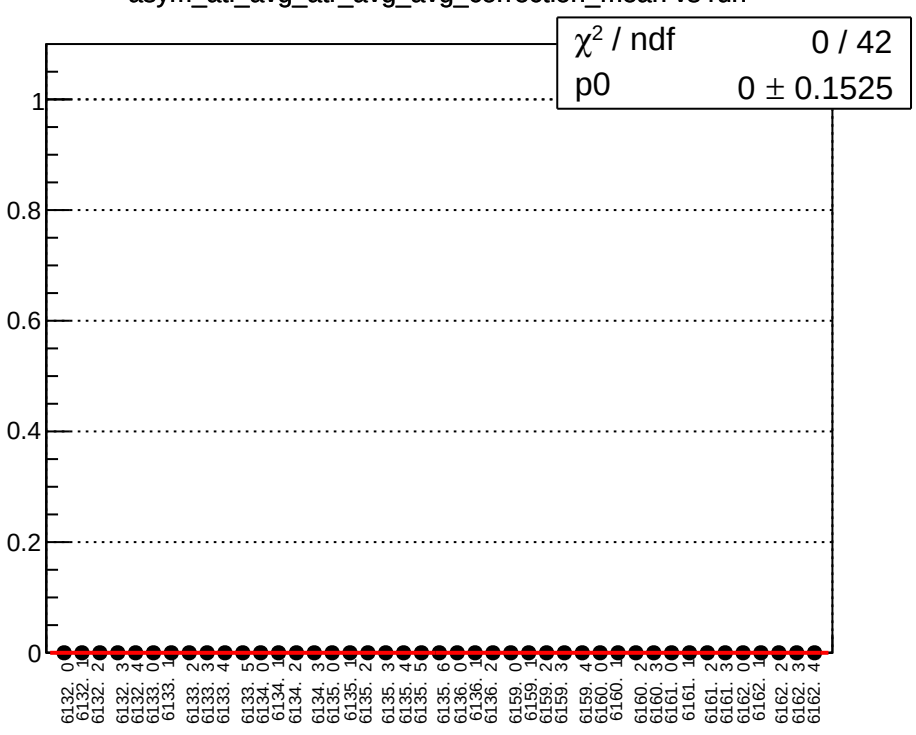

pull1D
Entries 43
Mean 0.02042
Std Dev 0.9671
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

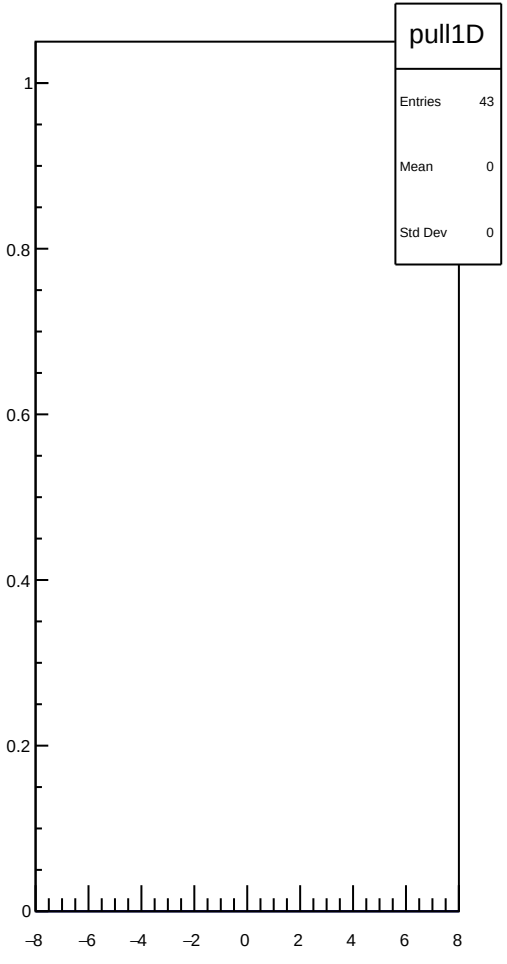

asym_atr1l2_dd_rms vs run
χ² / ndf 1.546e+04 / 42
p0 3325 ± 3.591
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

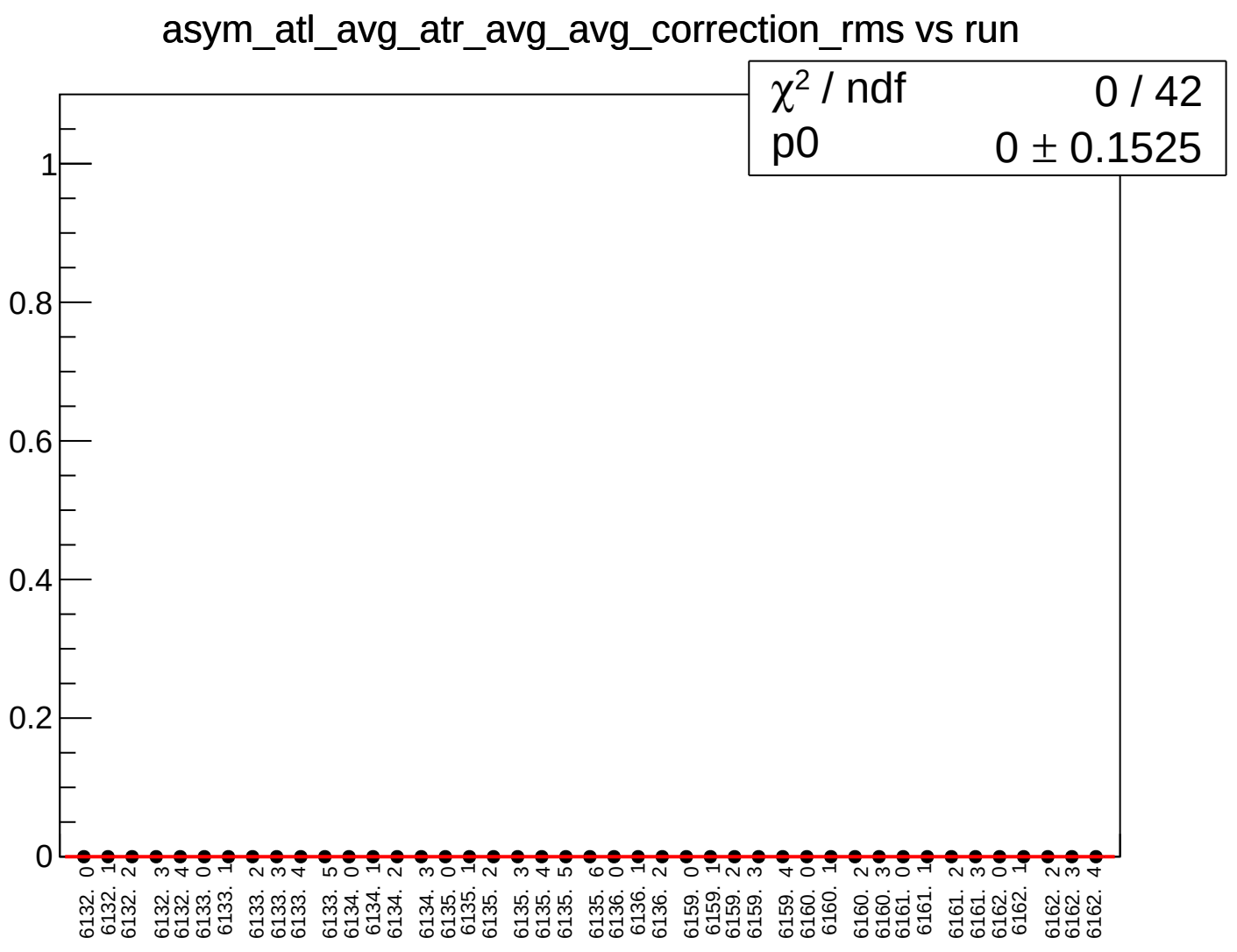

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 39.41 / 42
p0 −8503 ± 6723
×10³
pull
Entries 43
Mean 238.7
Std Dev 219.6

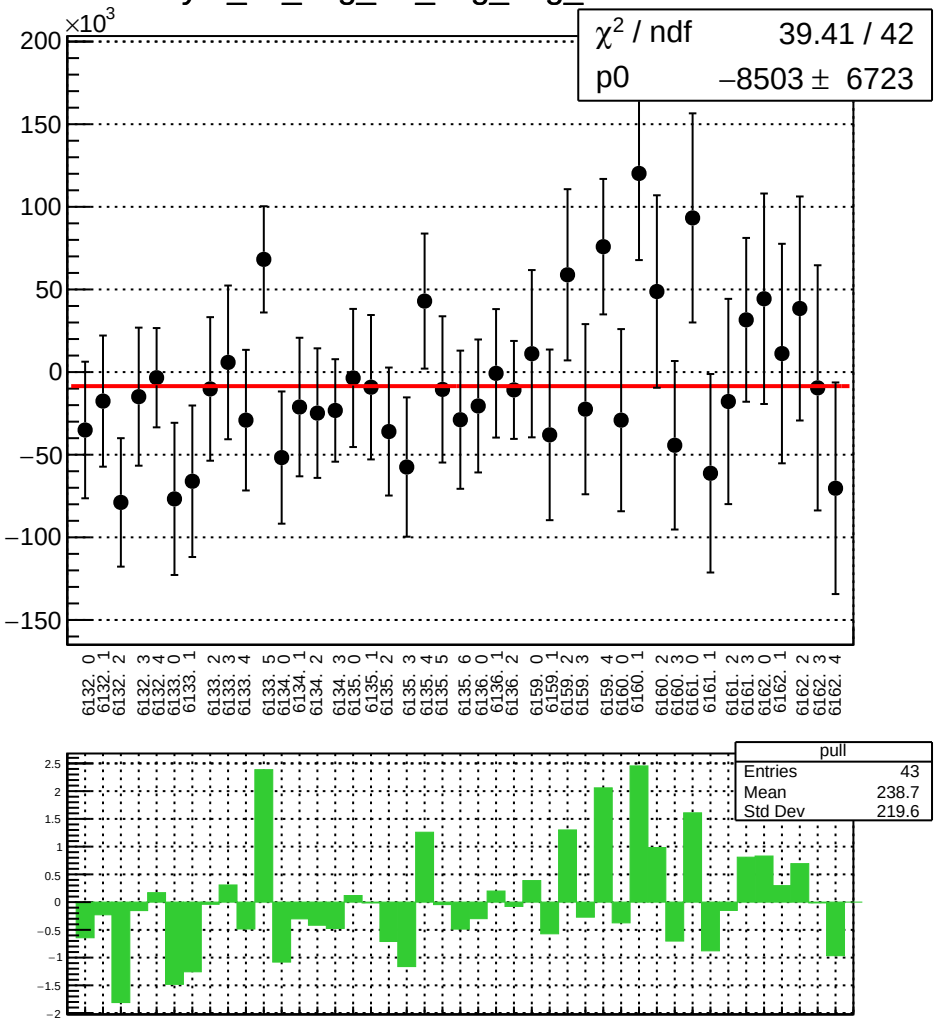

pull1D
Entries 43
Mean 0.01823
Std Dev 0.9571

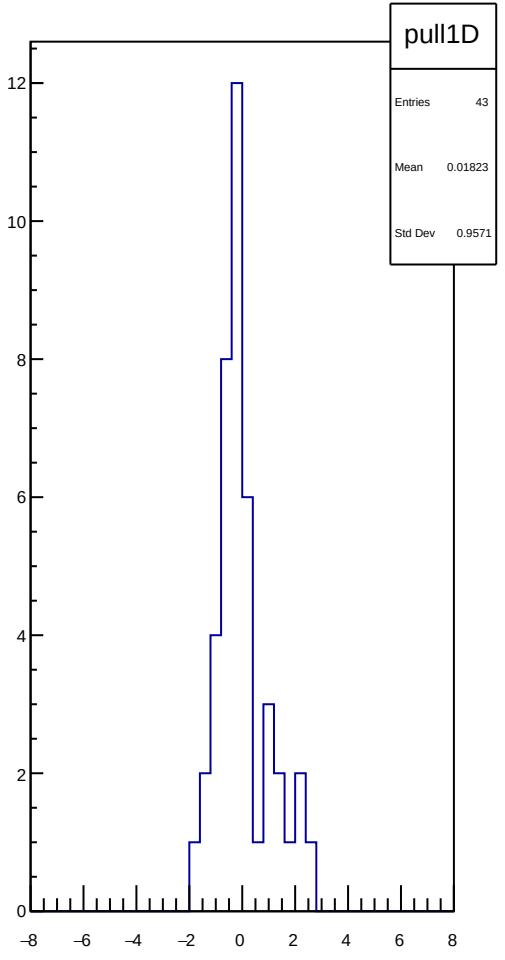

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3.196e+04 / 42
p0 4359 ± 4.754
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

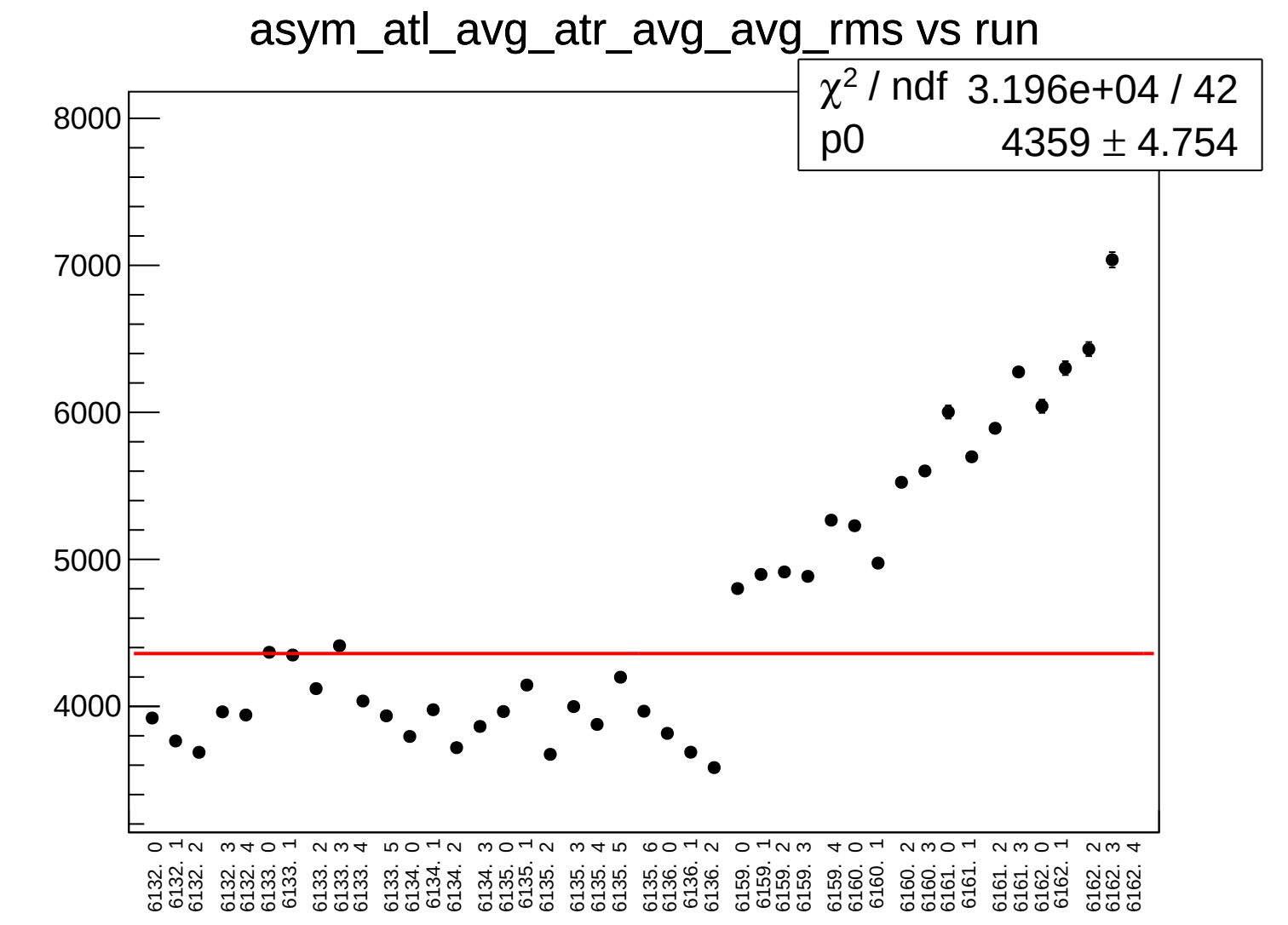

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

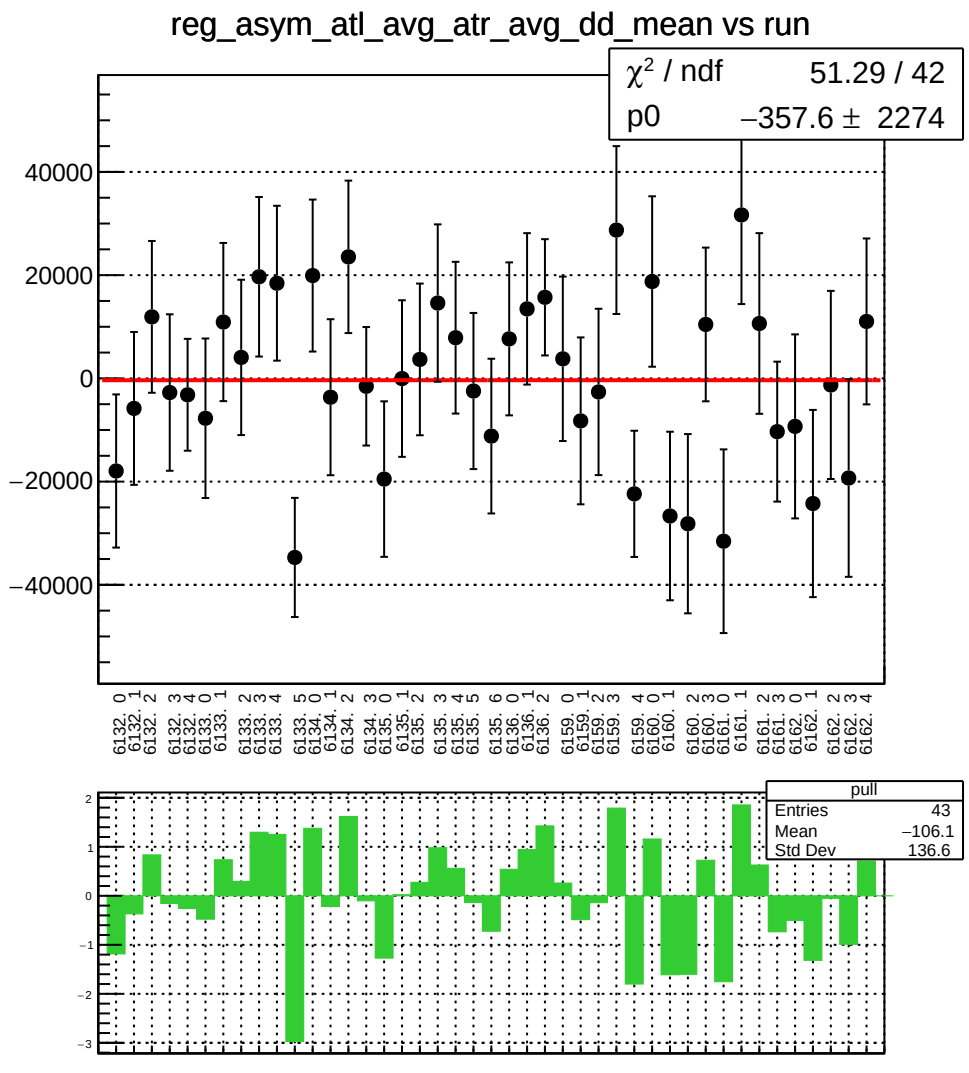

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

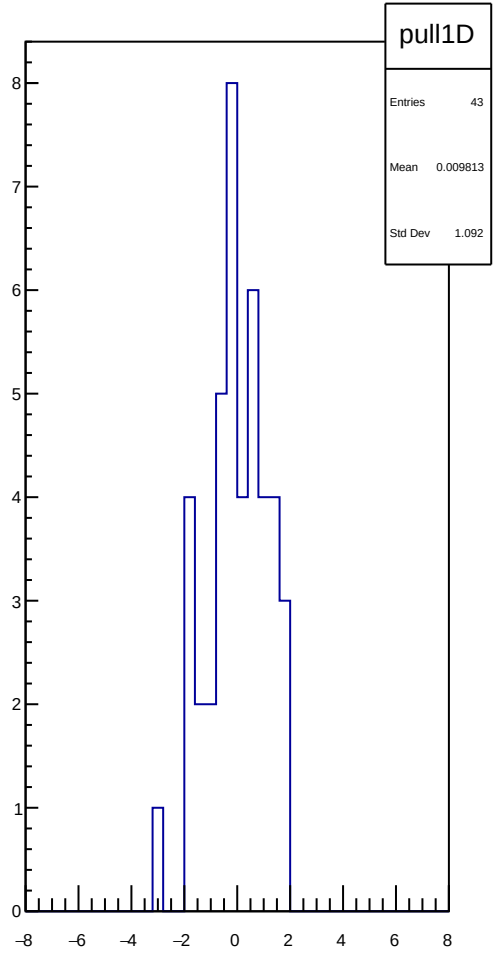

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

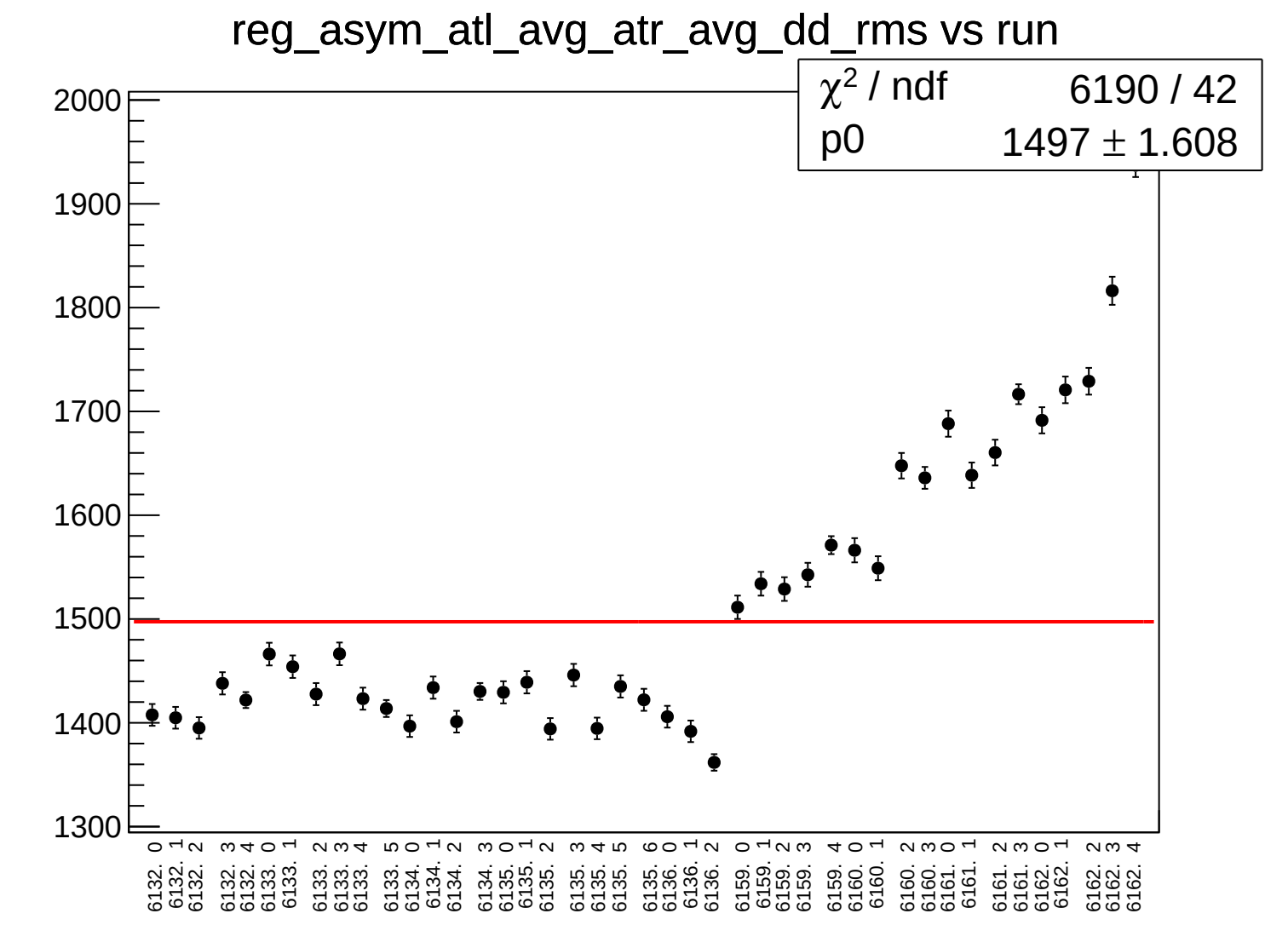

asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 39.41 / 42
p0 −8503 ± 6723
×10³
pull
Entries 43
Mean 238.7
Std Dev 219.6

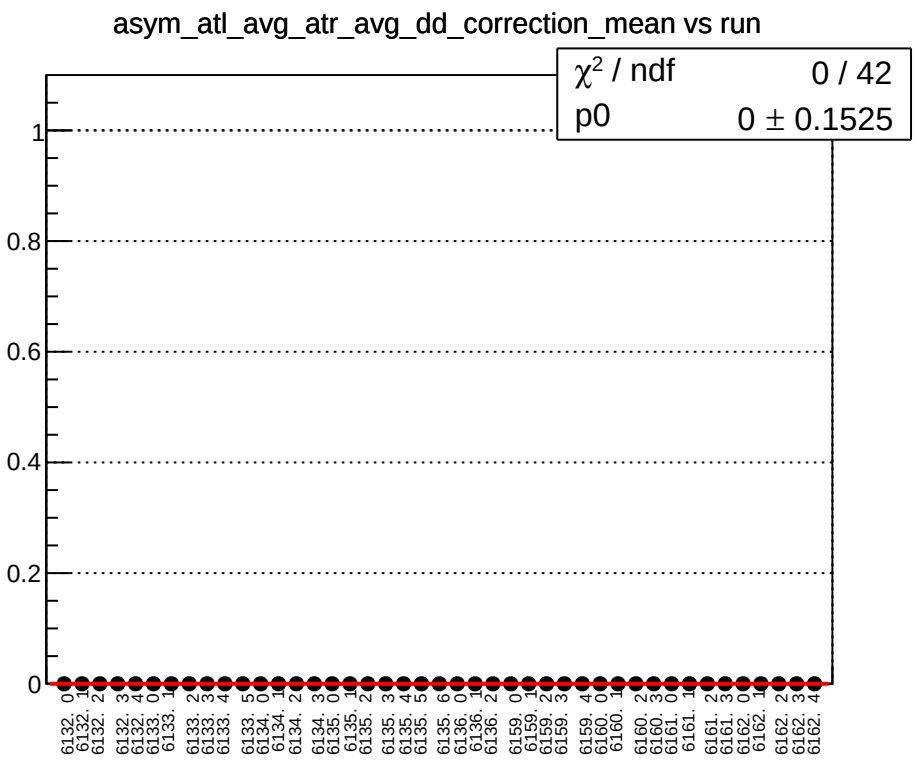

pull1D
Entries 43
Mean 0.01823
Std Dev 0.9571

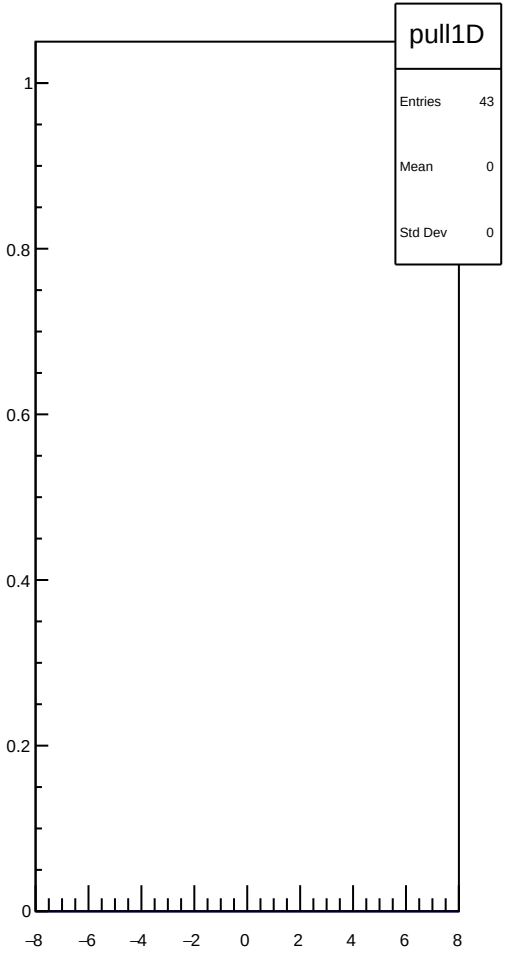

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3.196e+04 / 42
p0 4359 ± 4.754
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

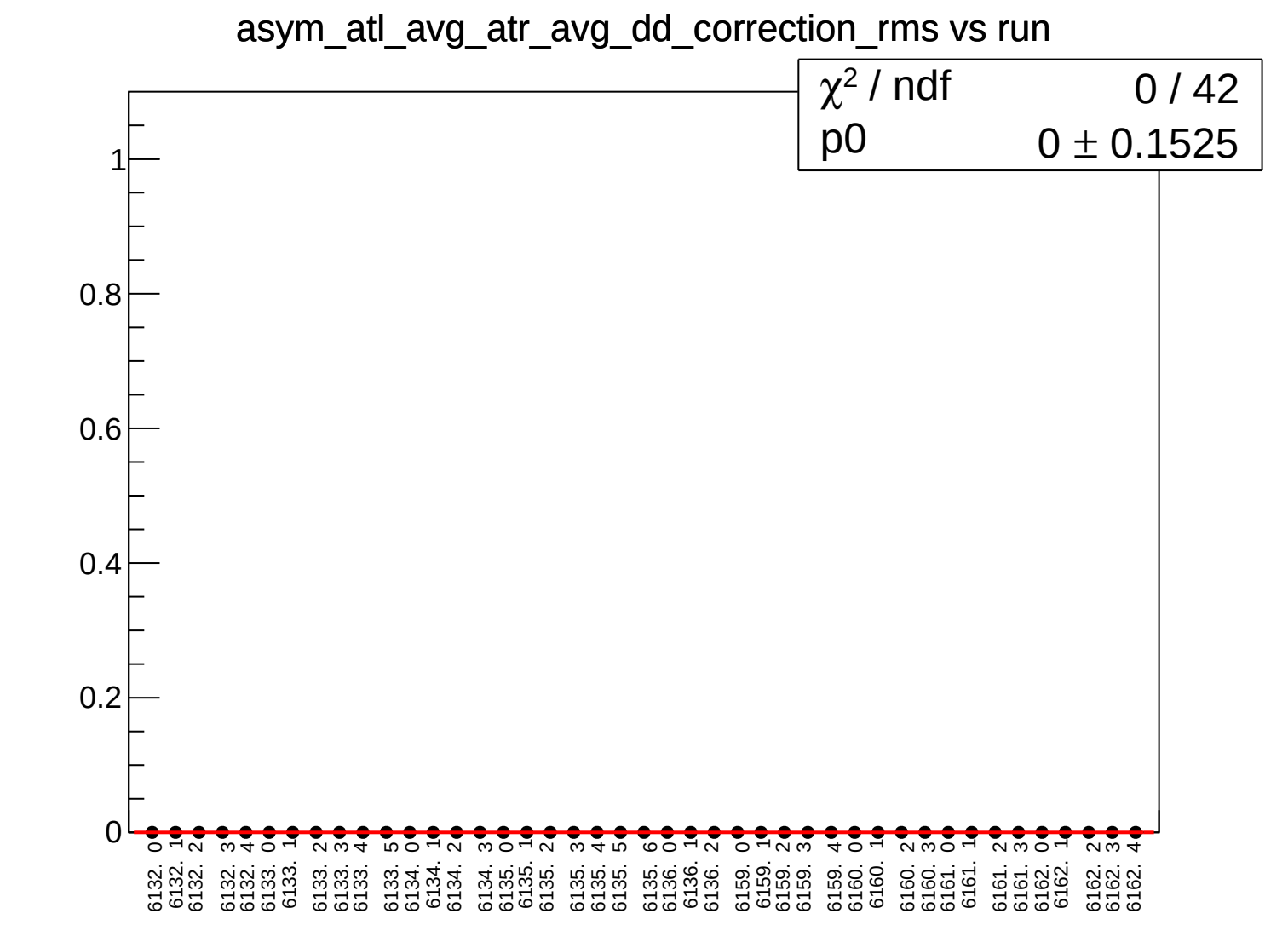

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 51.29 / 42
p0 −357.6 ± 2274
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −106.1
Std Dev 136.6
2
1
0
−1
−2
−3

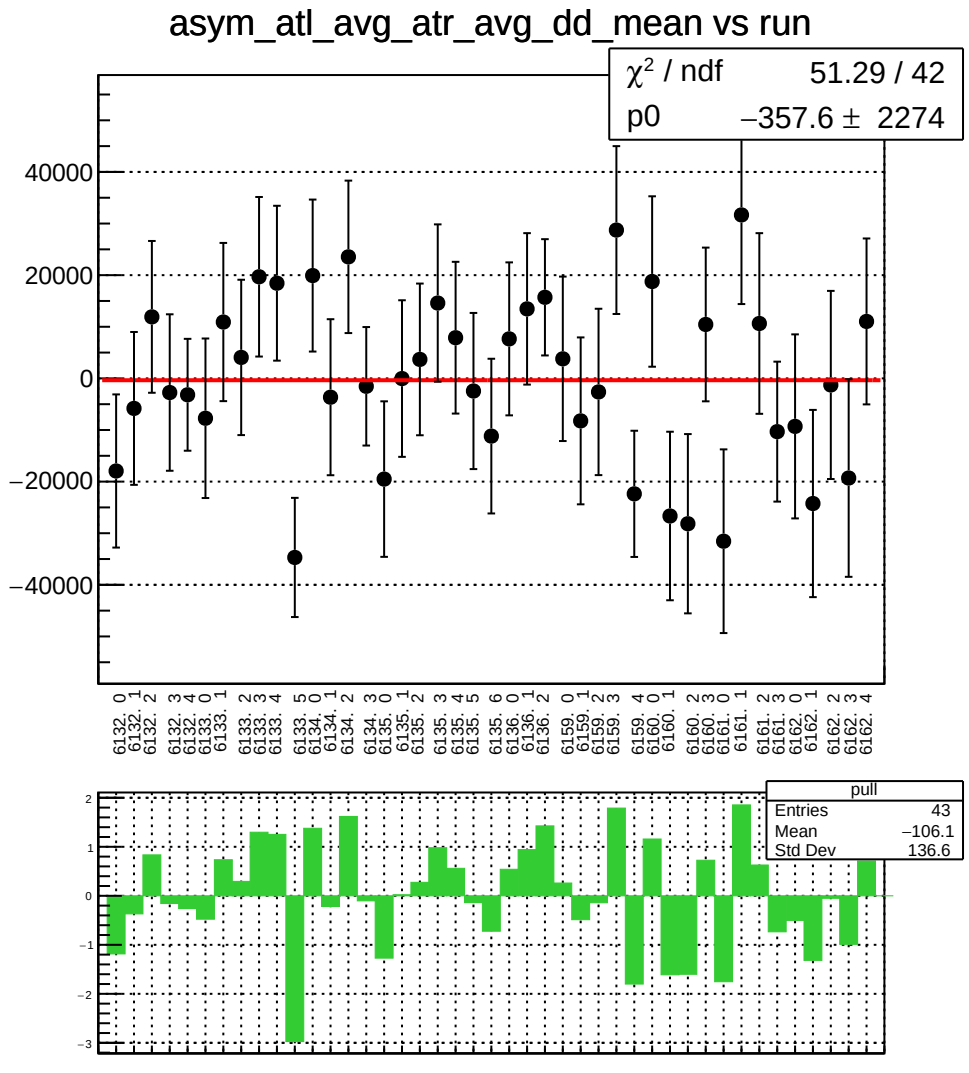

pull1D
Entries 43
Mean 0.009813
Std Dev 1.092
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

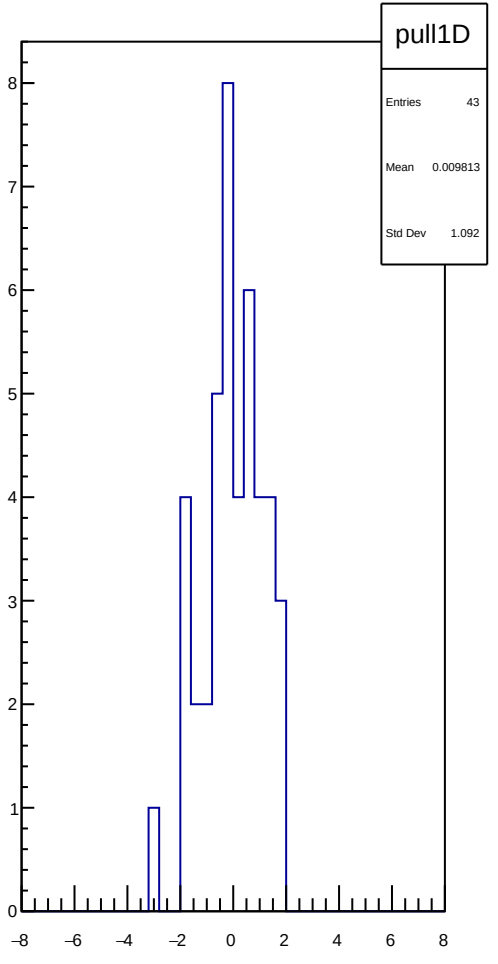

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 6190 / 42
p0 1497 ± 1.608
2000
1900
1800
1700
1600
1500
1400
1300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

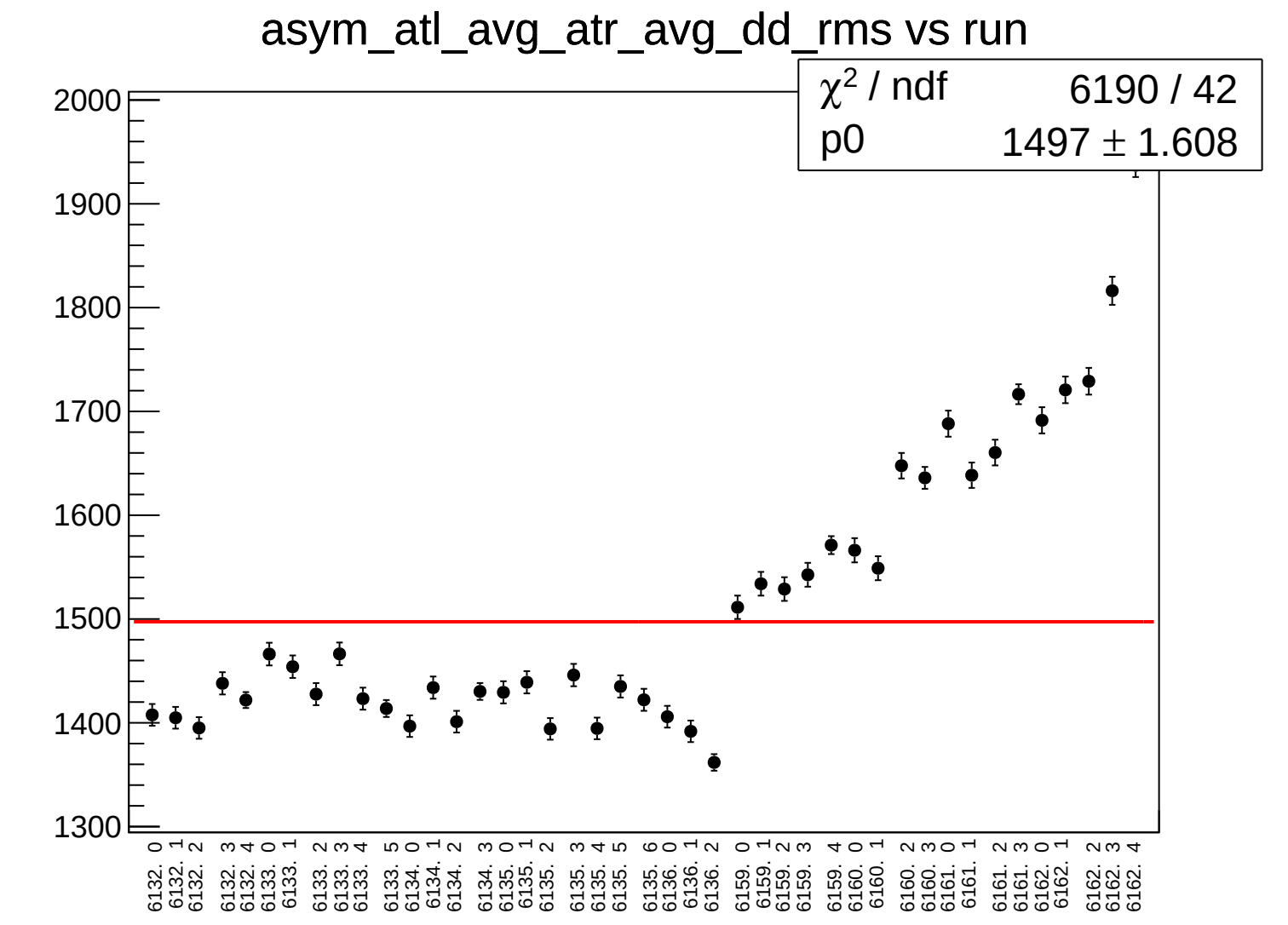

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

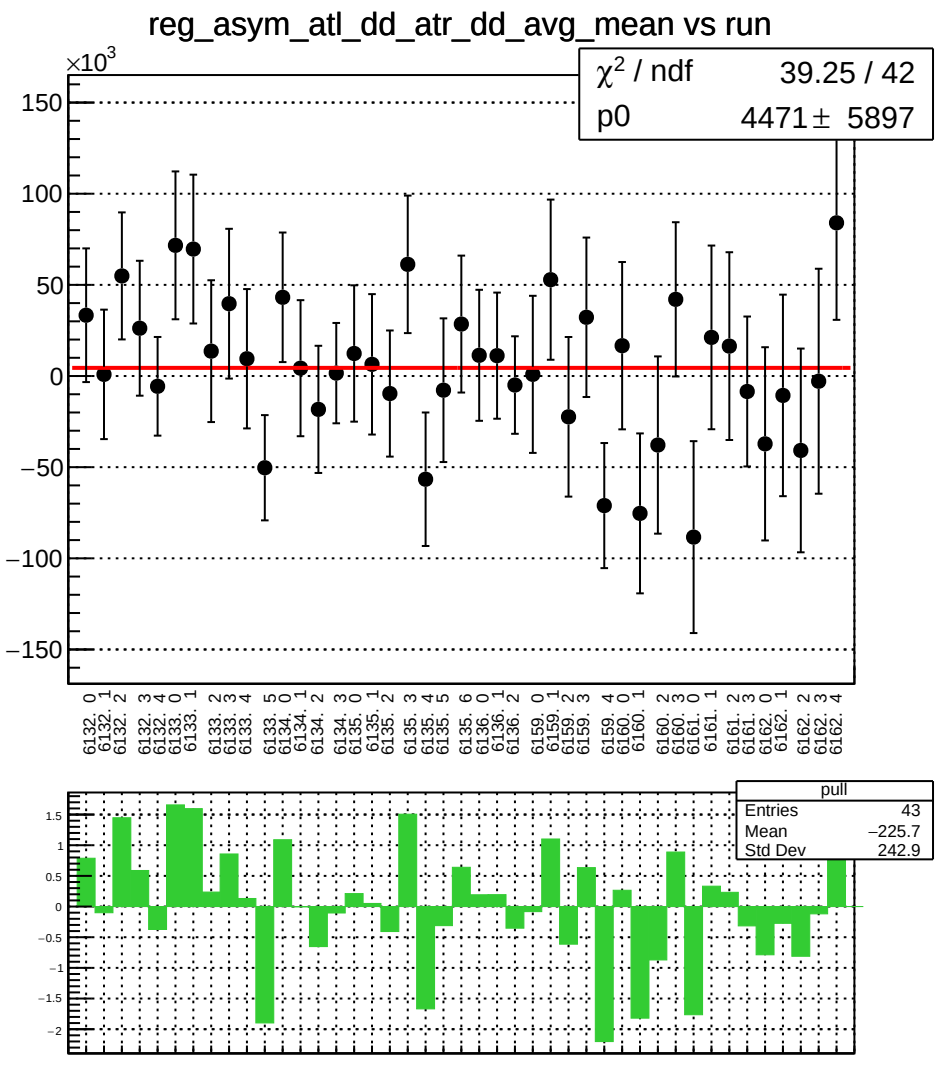

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

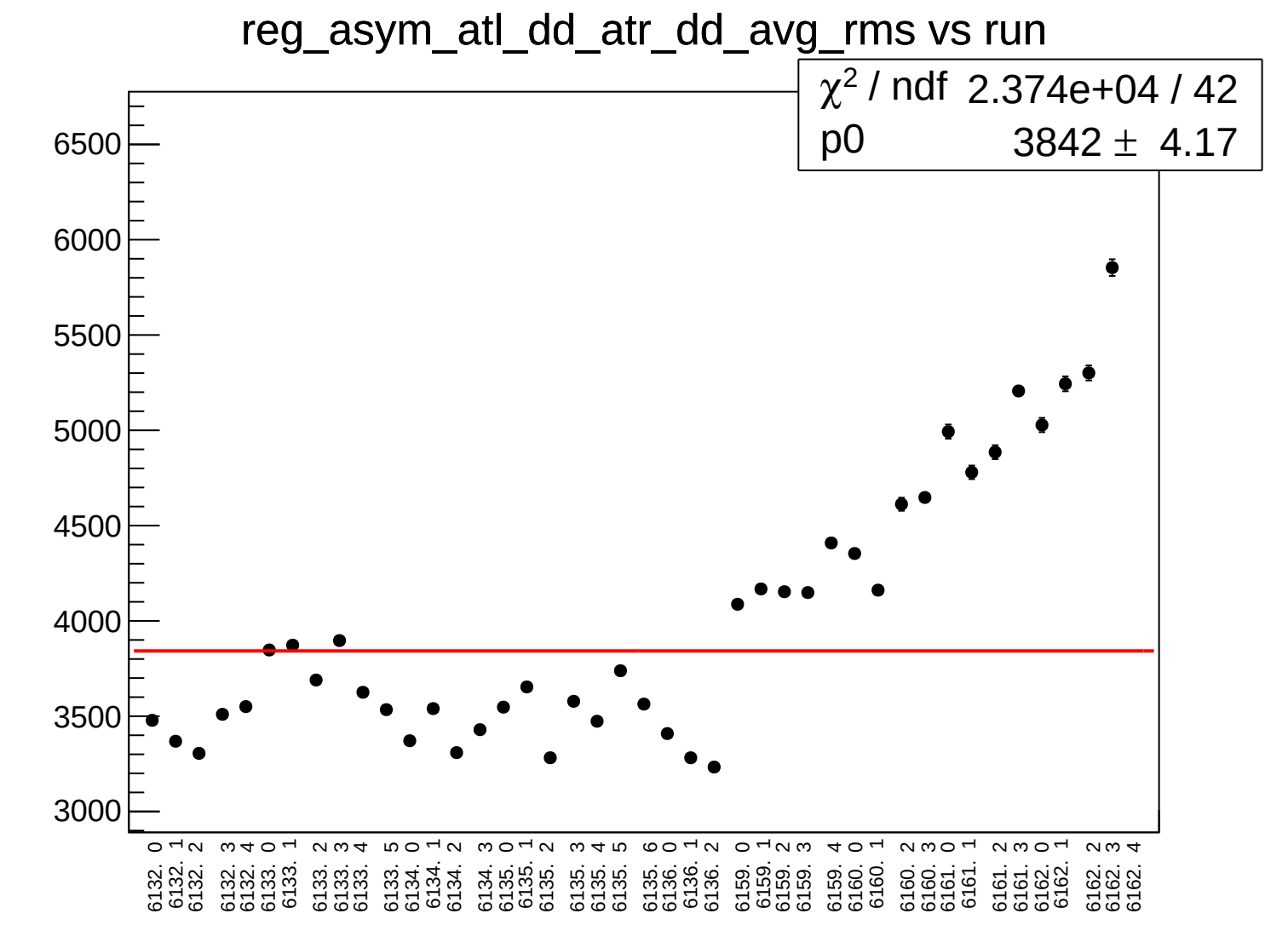

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

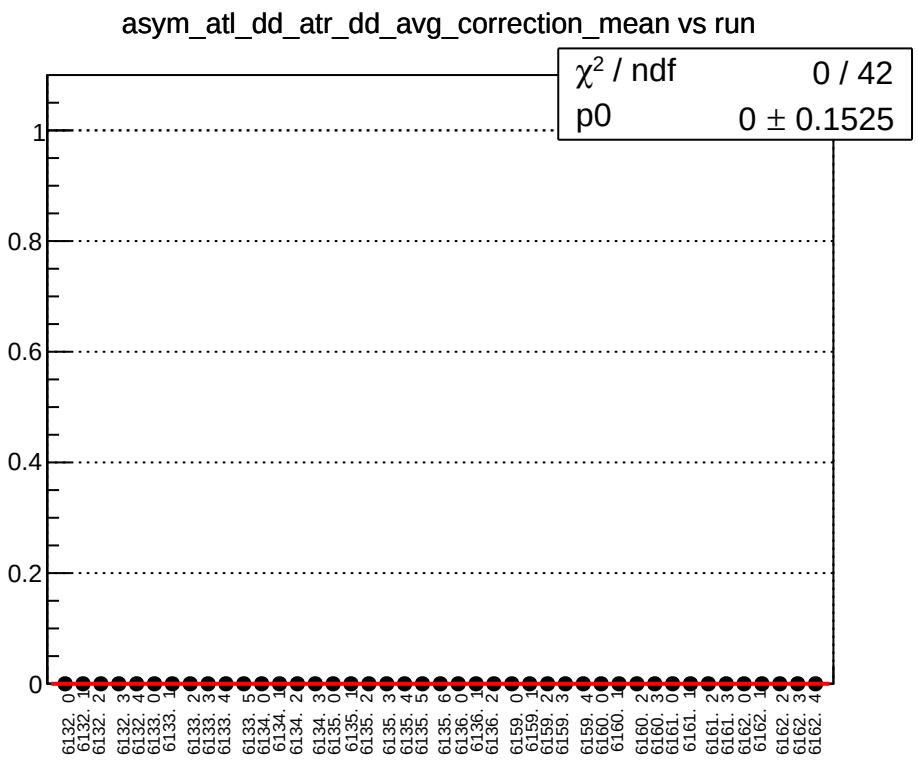

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 51.29 / 42
p0 −357.6 ± 2274
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −106.1
Std Dev 136.6
2
1
0
−1
−2
−3

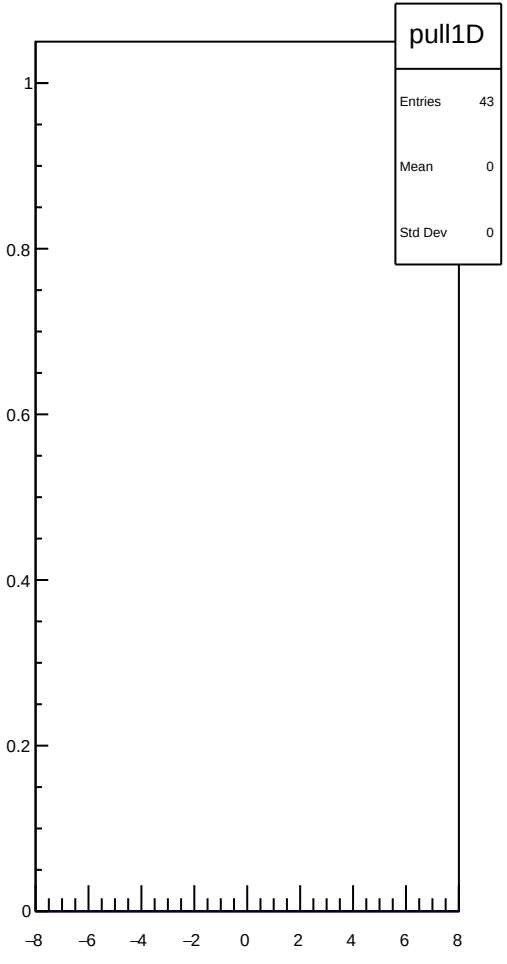

pull1D
Entries 43
Mean 0.009813
Std Dev 1.092
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

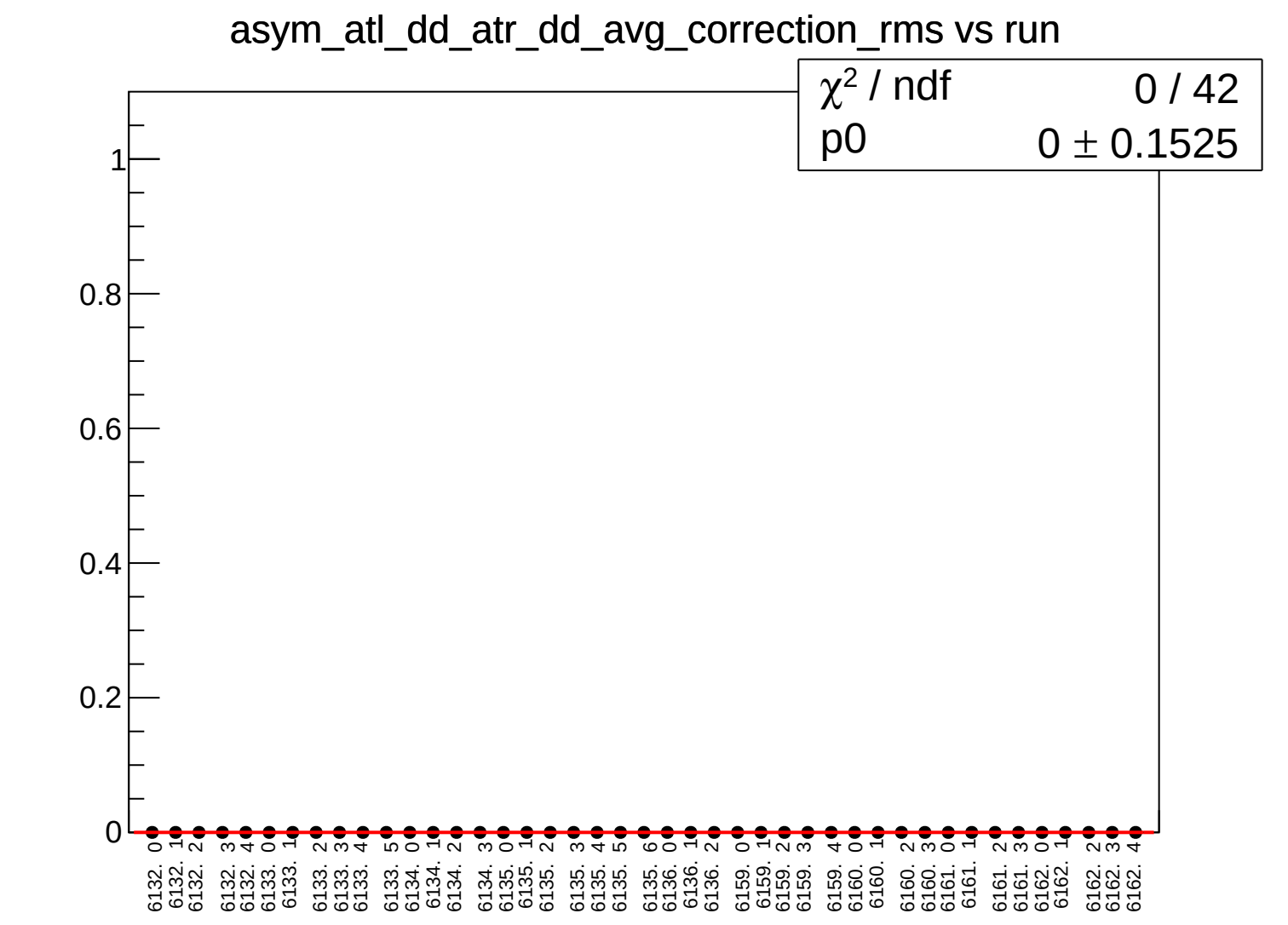

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 6190 / 42
p0 1497 ± 1.608
2000
1900
1800
1700
1600
1500
1400
1300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

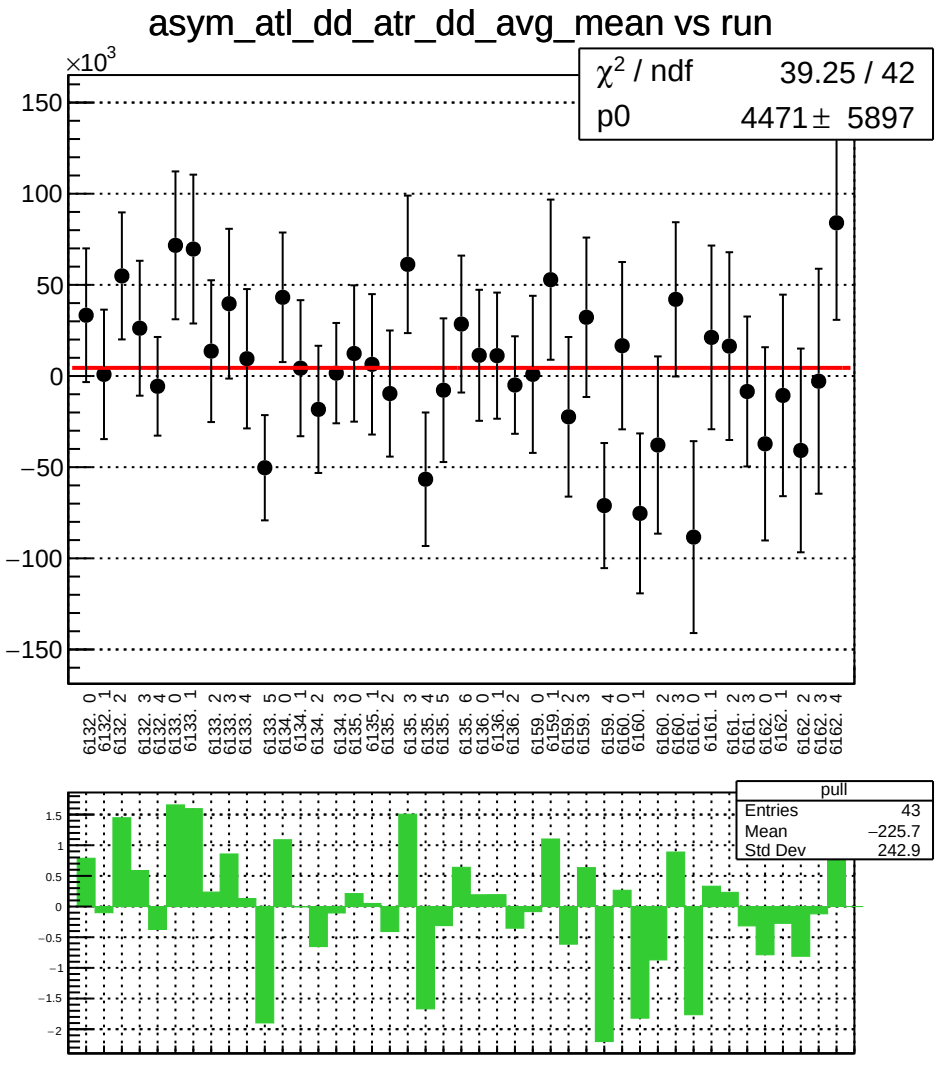

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 39.25 / 42
p0 4471 ± 5897
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −225.7
Std Dev 242.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01401
Std Dev 0.9553
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

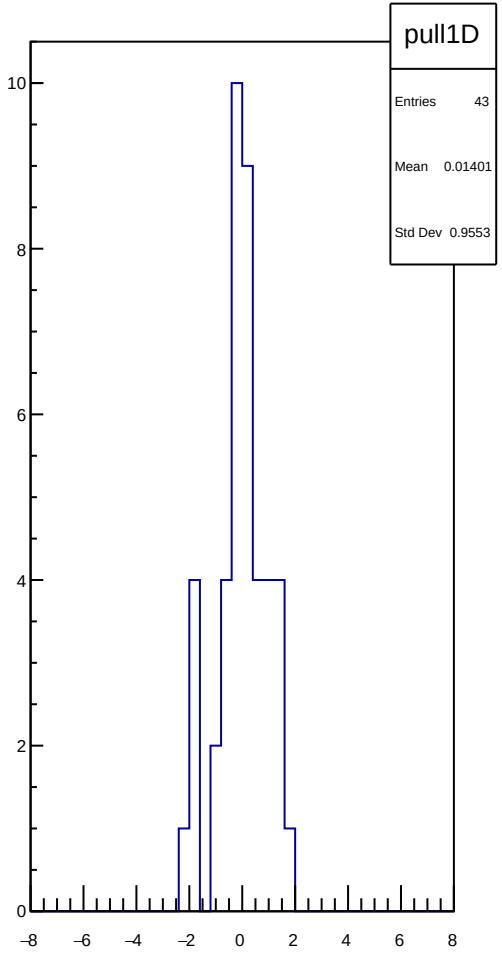

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2.374e+04 / 42
p0 3842 ± 4.17
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

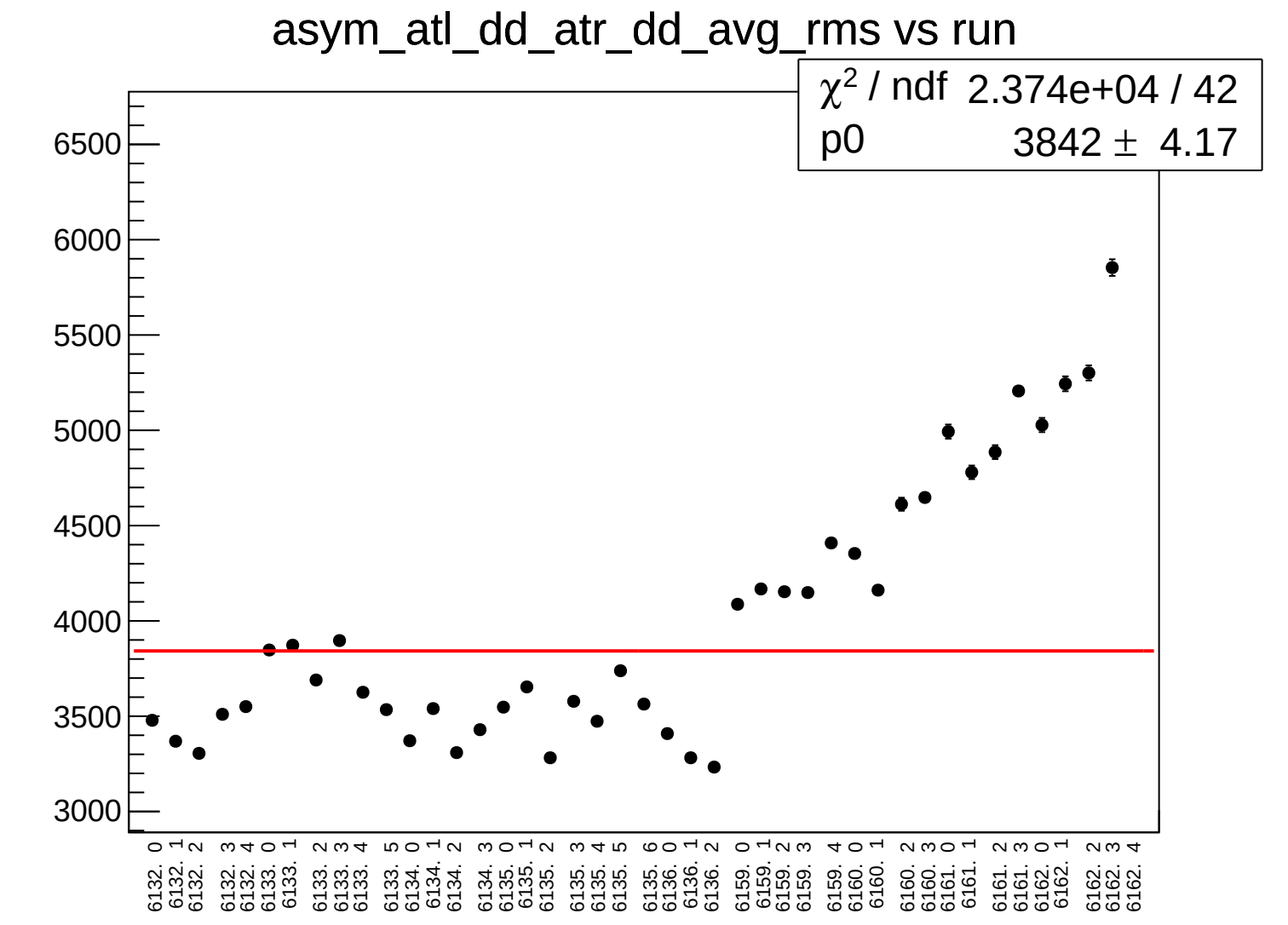

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

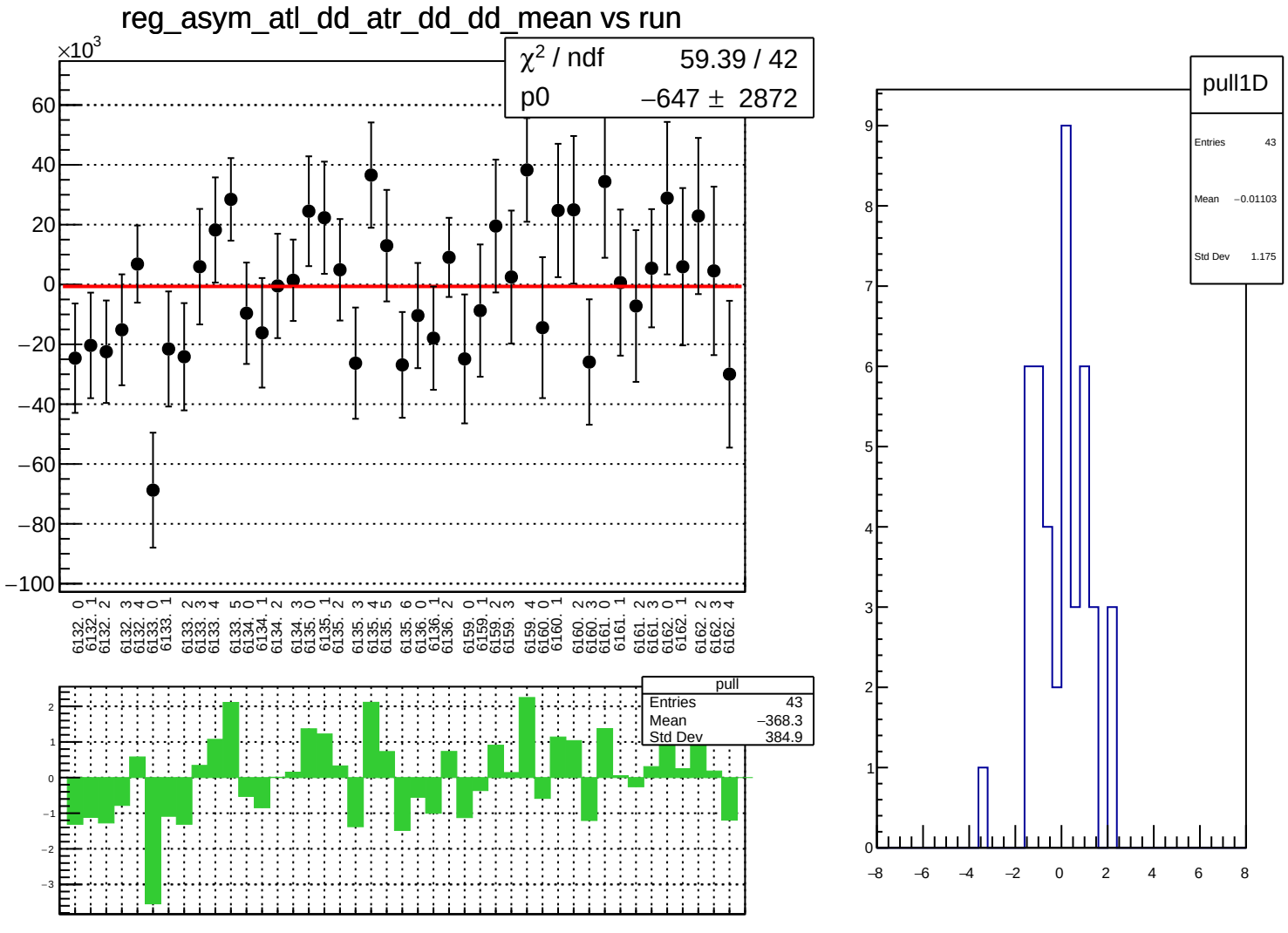

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

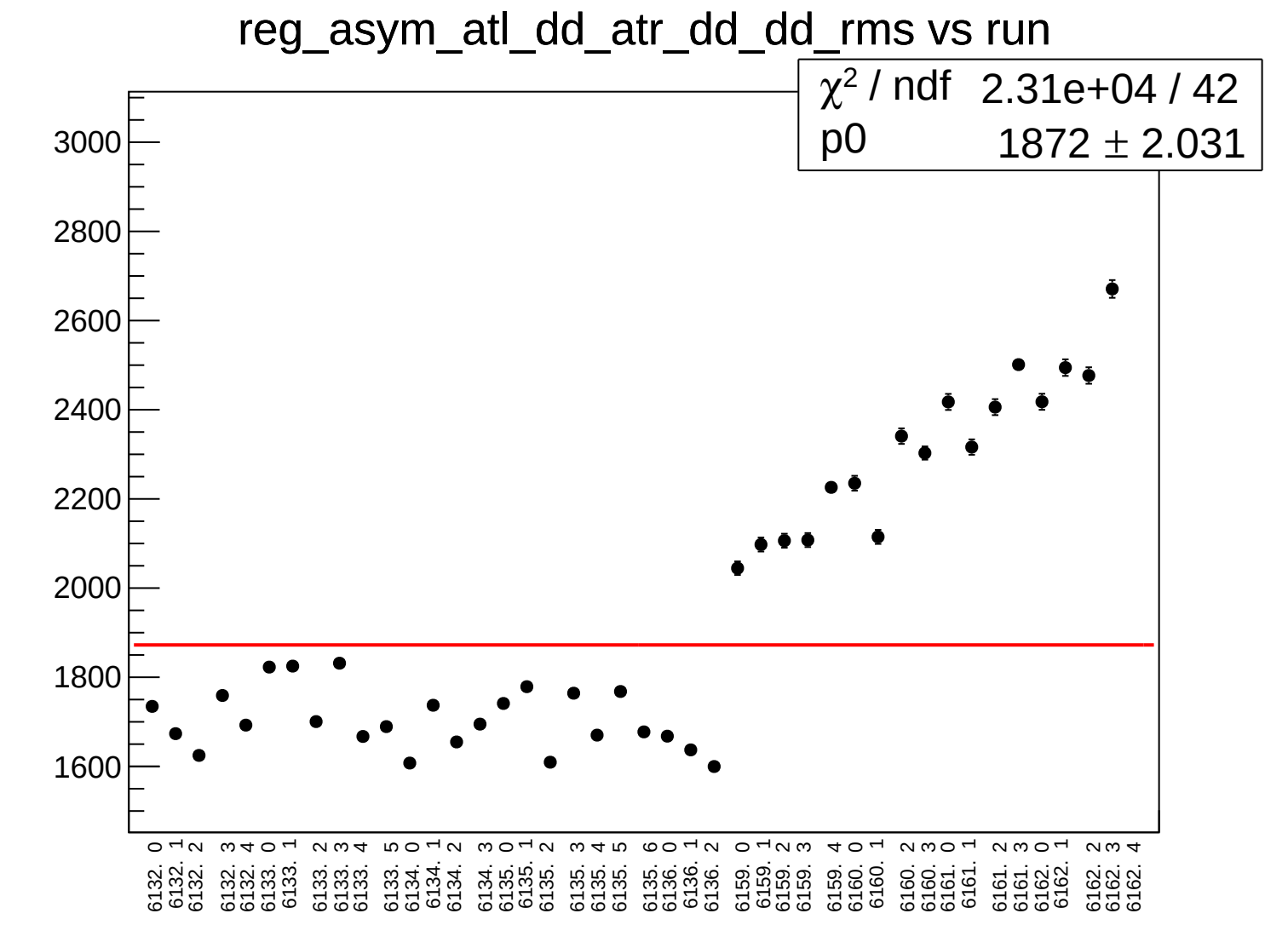

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

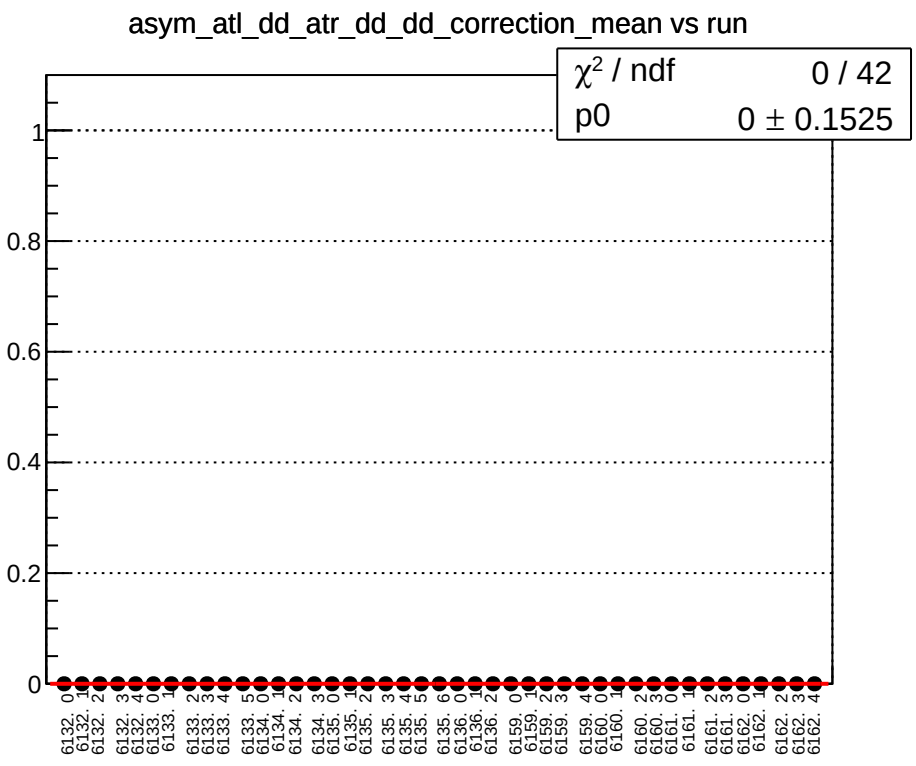

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 39.25 / 42
p0 4471 ± 5897
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −225.7
Std Dev 242.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

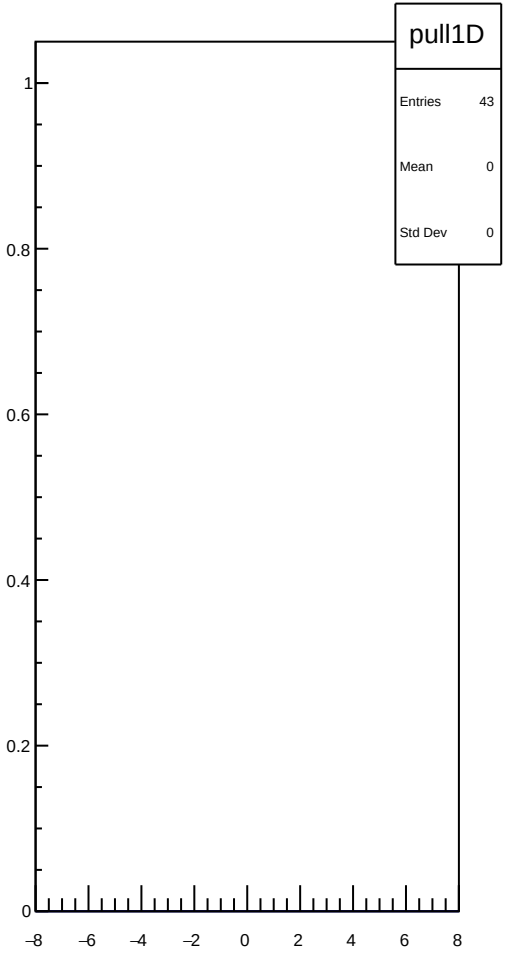

pull1D
Entries 43
Mean 0.01401
Std Dev 0.9553
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

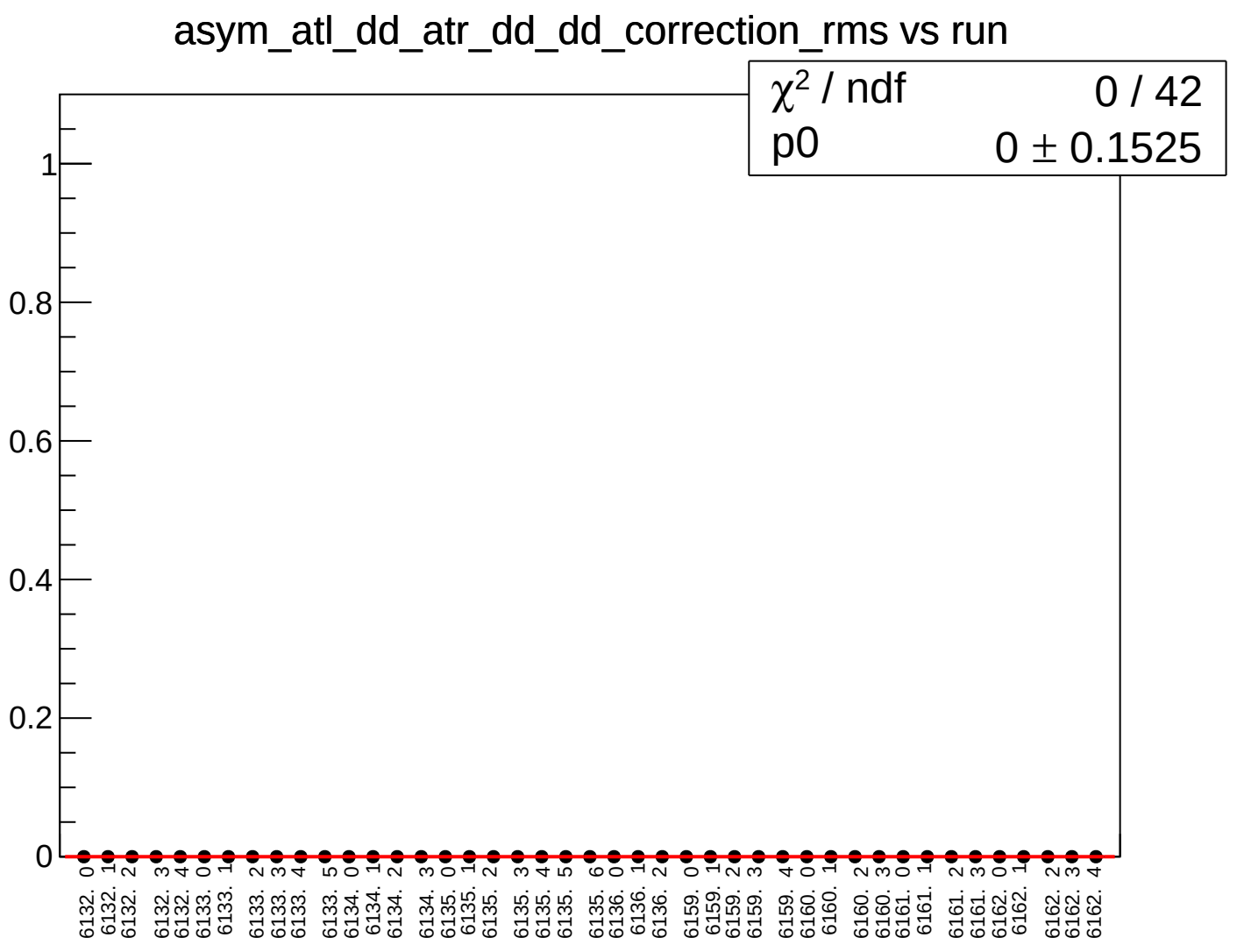

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2.374e+04 / 42
p0 3842 ± 4.17
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

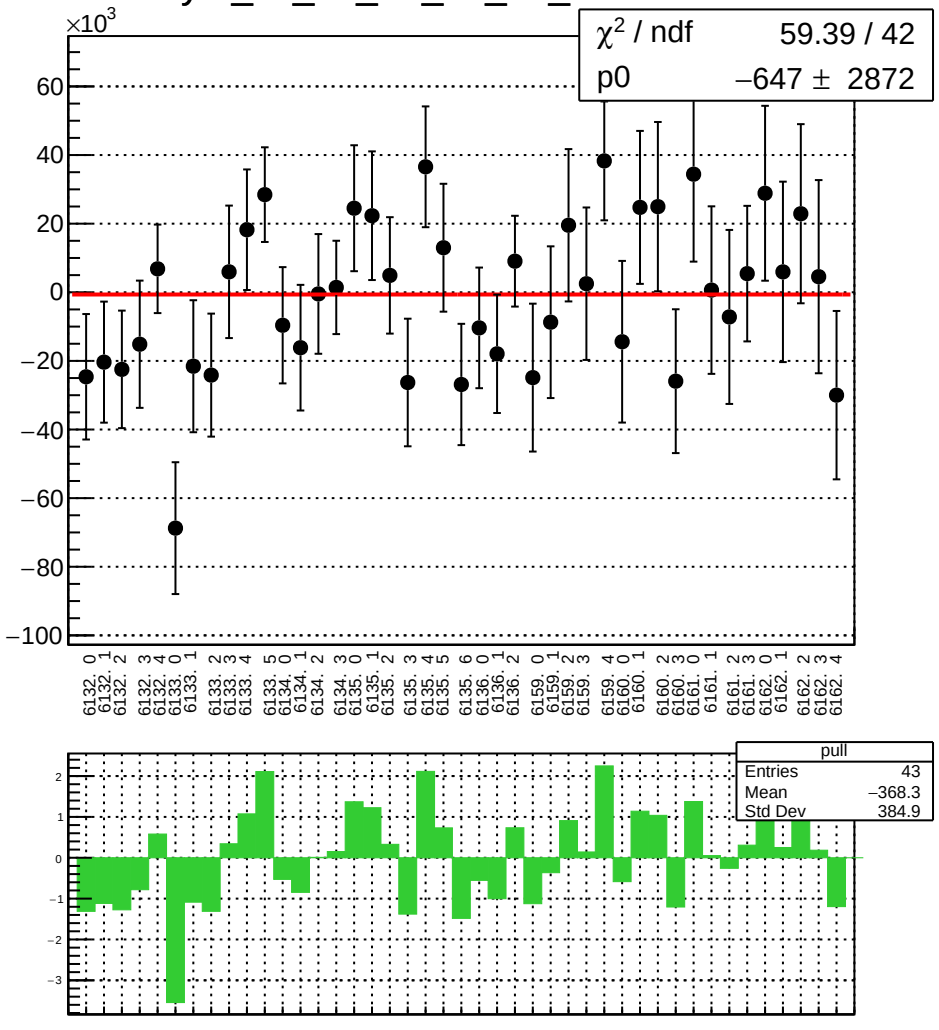

reg_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 59.39 / 42
p0 −647 ± 2872
60
40
20
0
−20
−40
−60
−80
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −368.3
Std Dev 384.9
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.01103
Std Dev 1.175
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

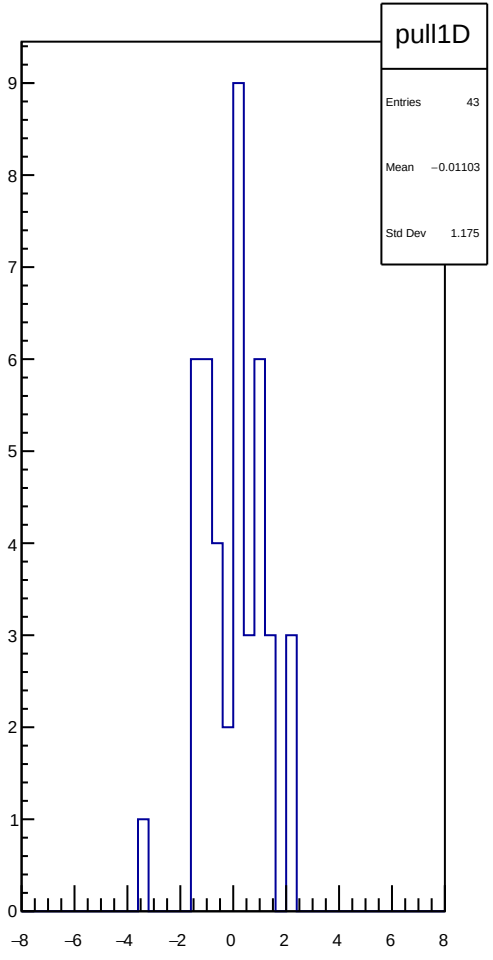

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 2.31e+04 / 42
p0 1872 ± 2.031
3000
2800
2600
2400
2200
2000
1800
1600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

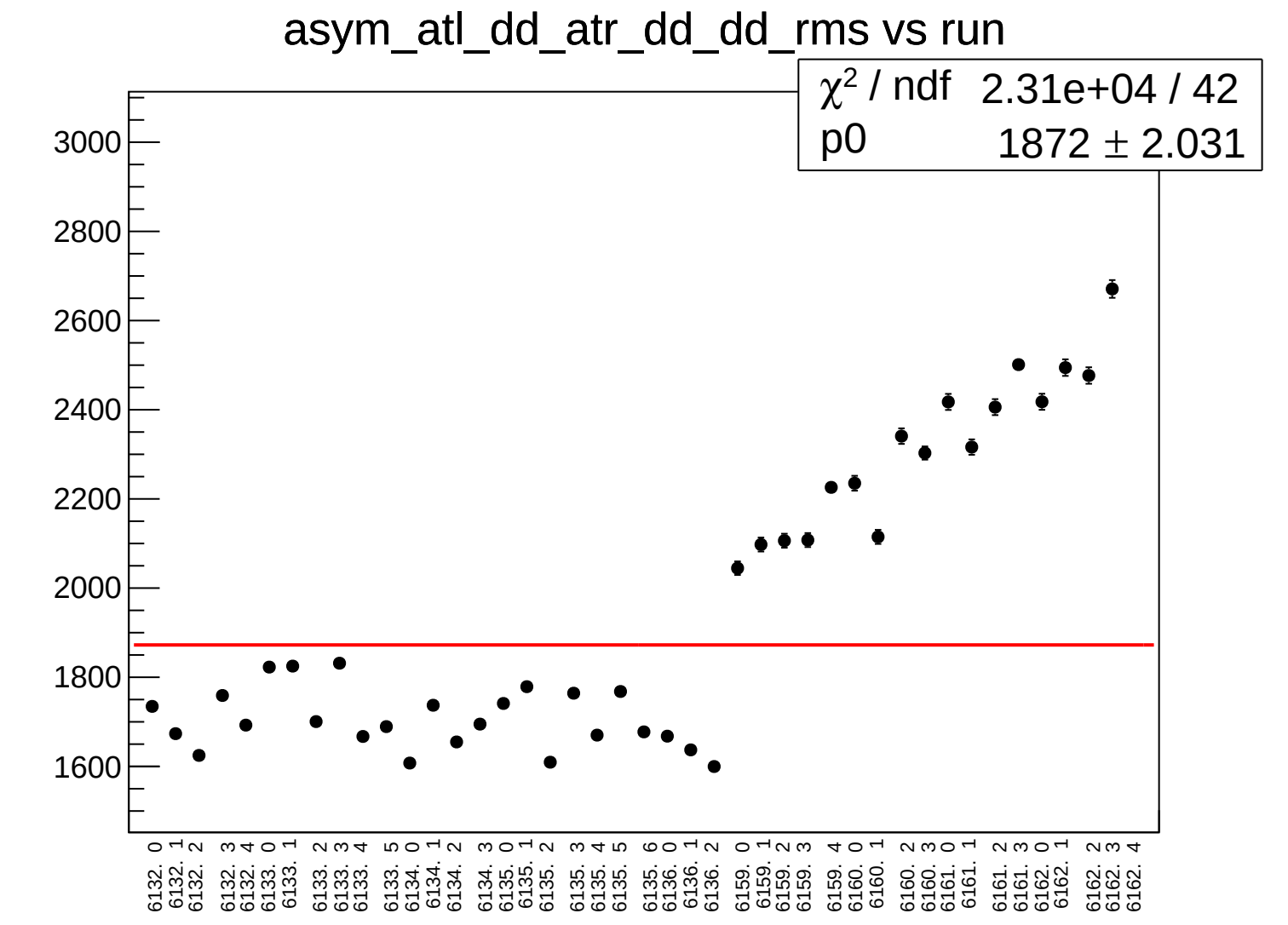

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

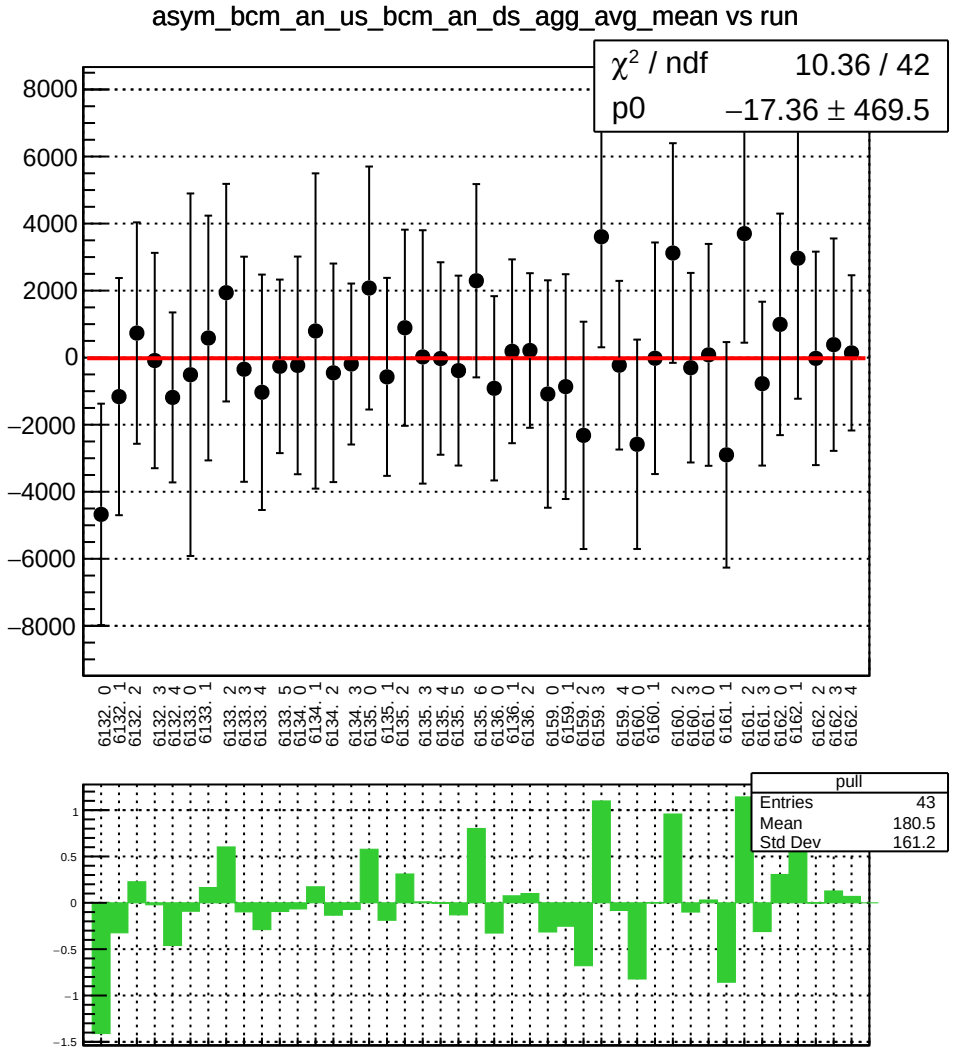

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

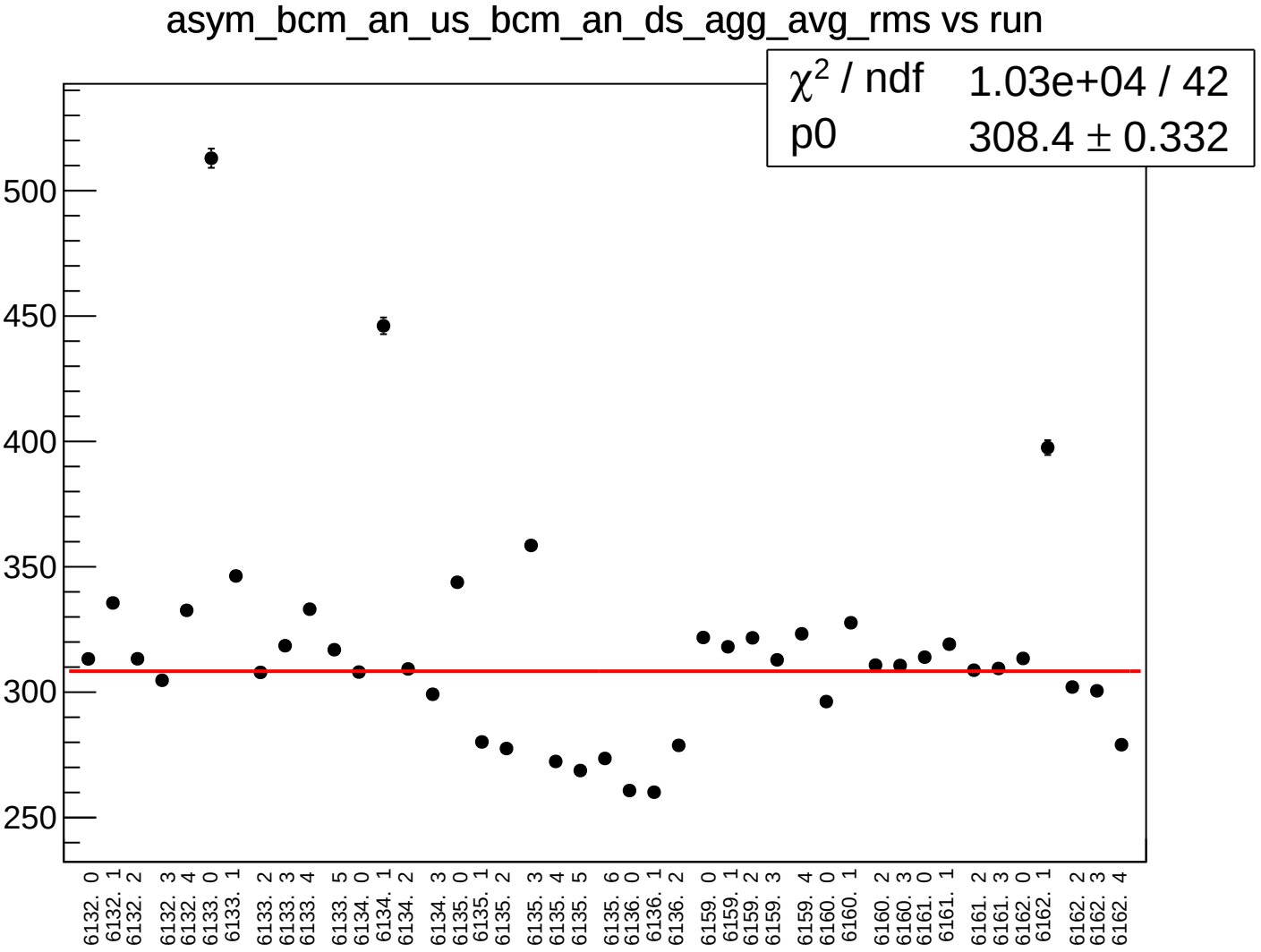

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 42
p0 0 ± 0.1525
1
0.8
0.6
0.4
0.2
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

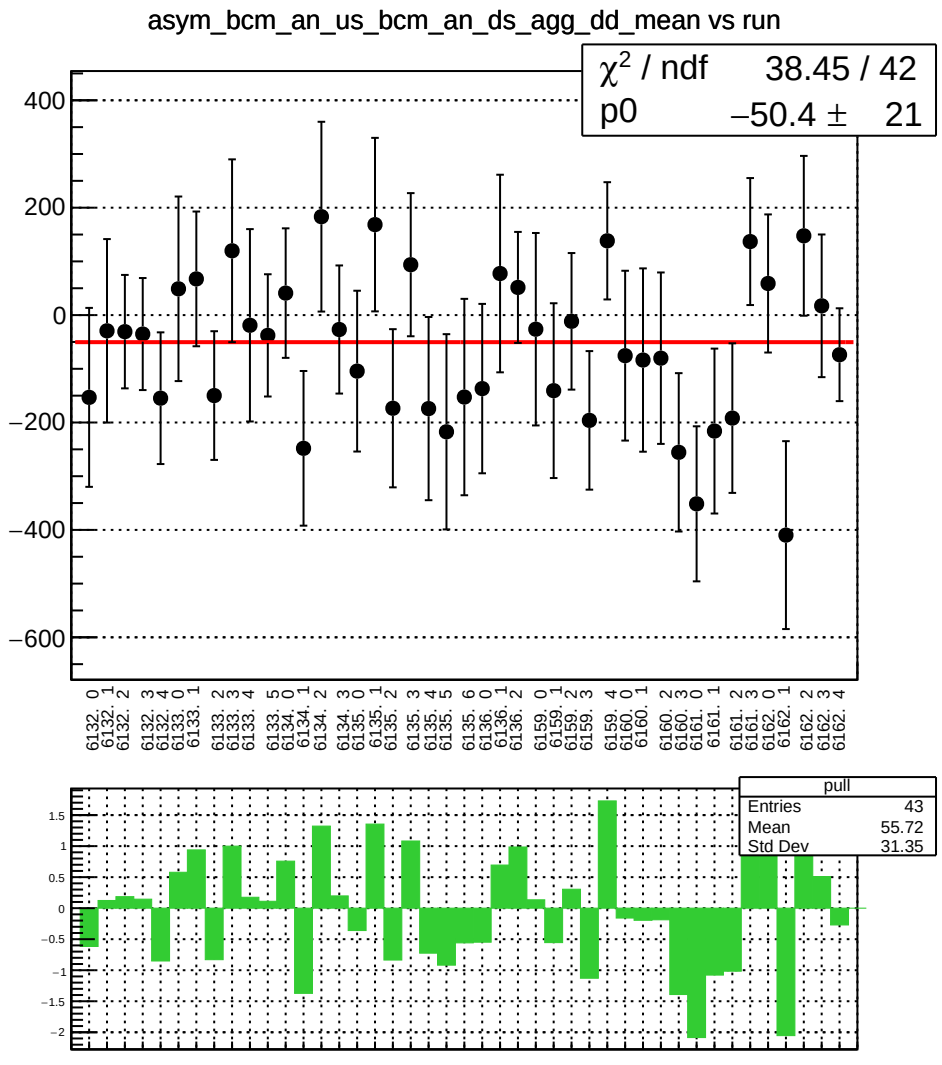

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 59.39 / 42
p0 −647 ± 2872
60
40
20
0
−20
−40
−60
−80
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −368.3
Std Dev 384.9
2
1
0
−1
−2
−3

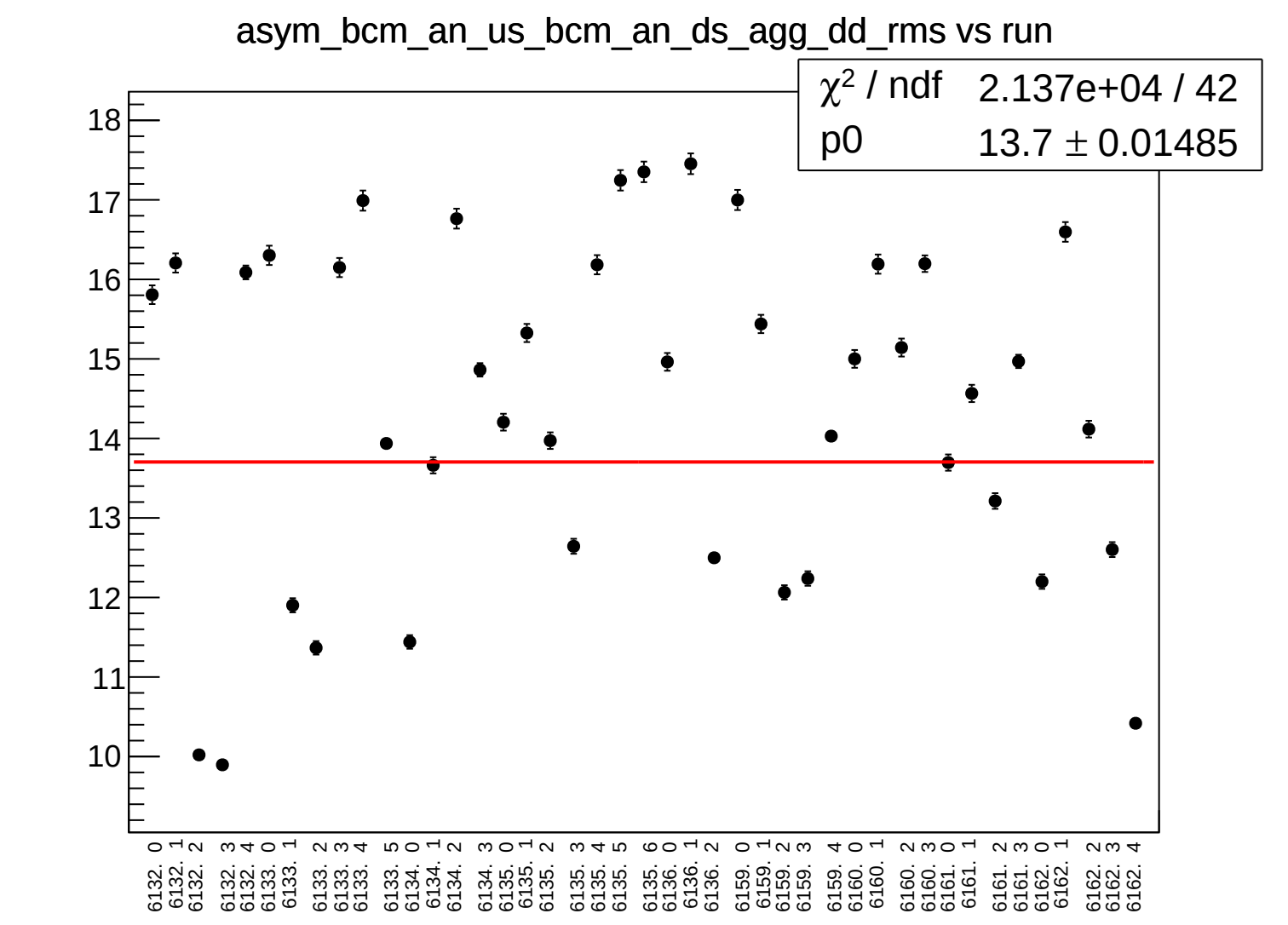

pull1D
Entries 43
Mean −0.01103
Std Dev 1.175
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

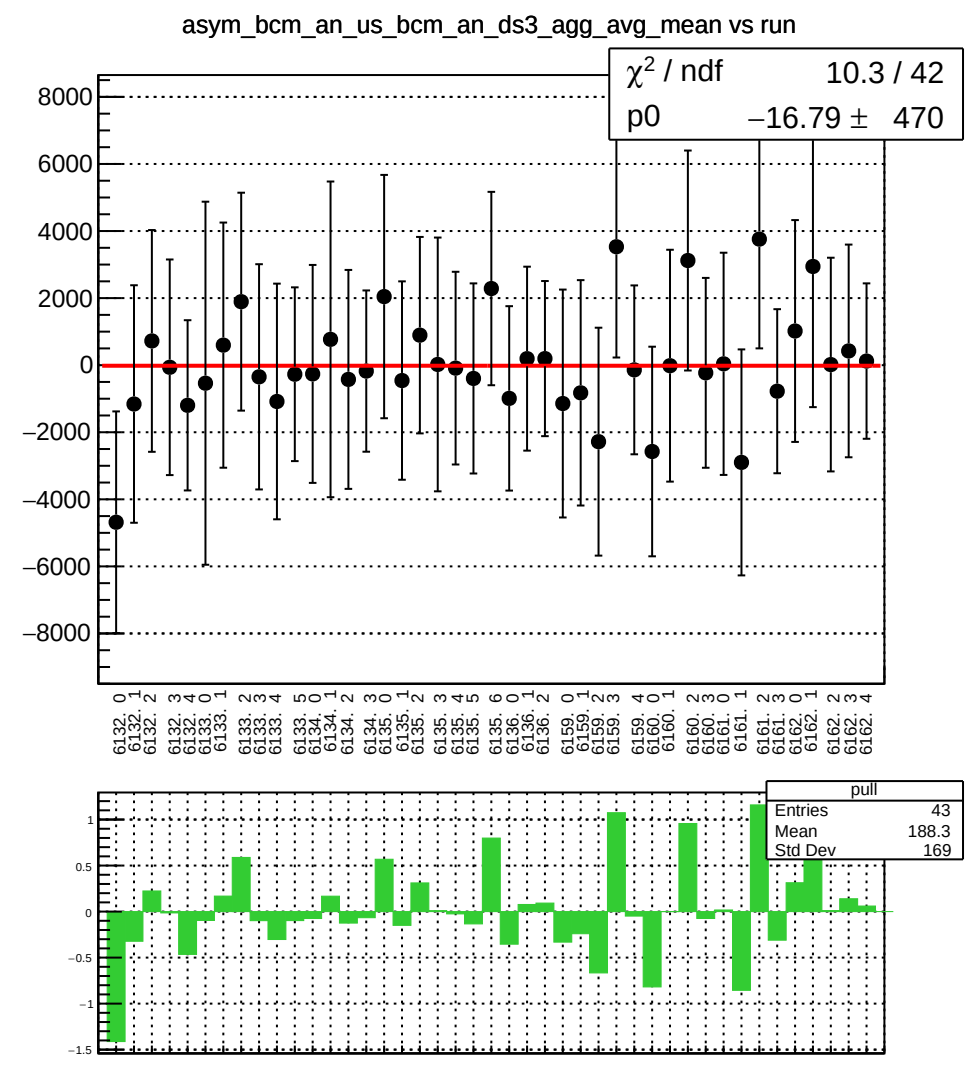

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 2.31e+04 / 42
p0 1872 ± 2.031
3000
2800
2600
2400
2200
2000
1800
1600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

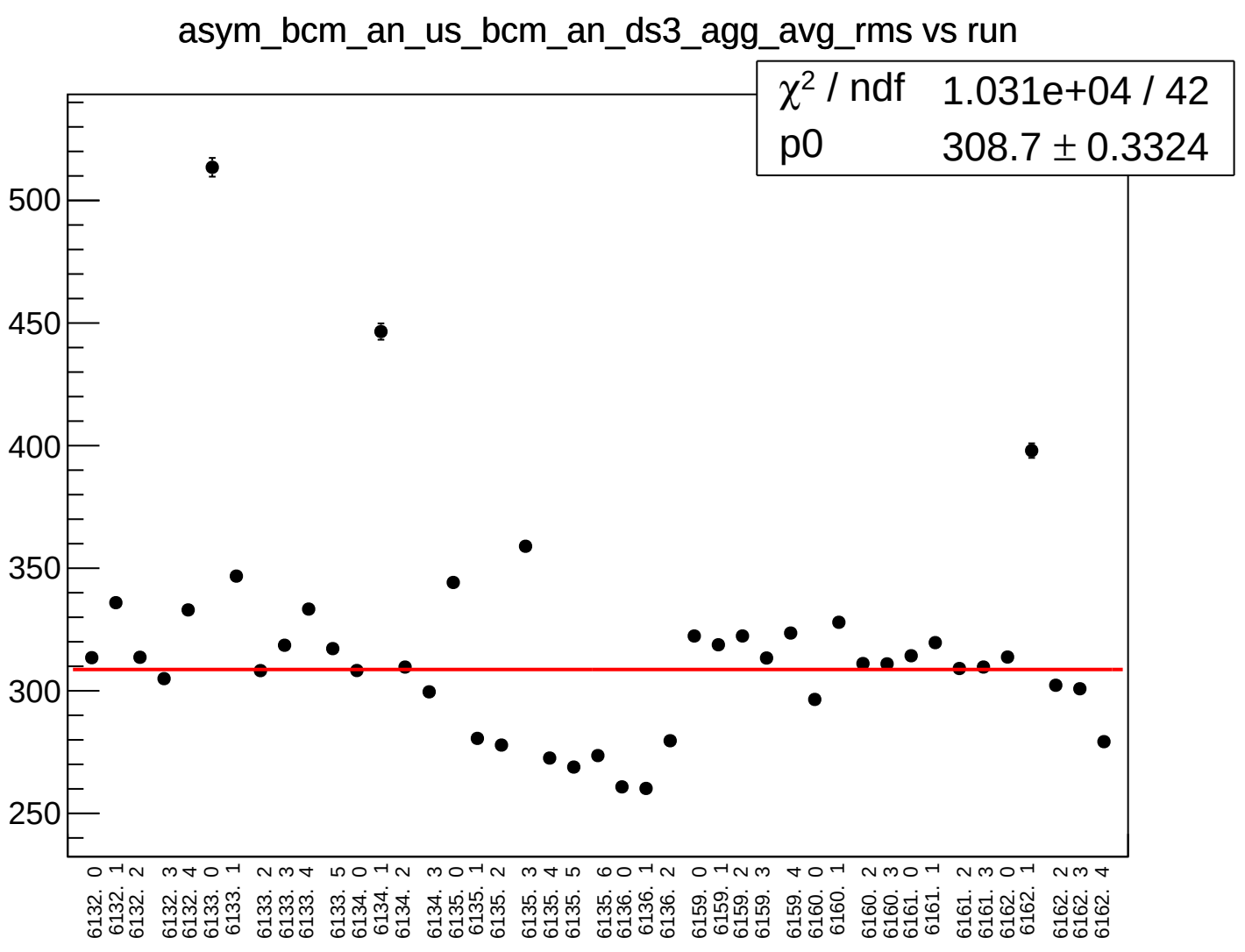

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 10.36 / 42
p0 −17.36 ± 469.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 180.5
Std Dev 161.2
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.008542
Std Dev 0.4909
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

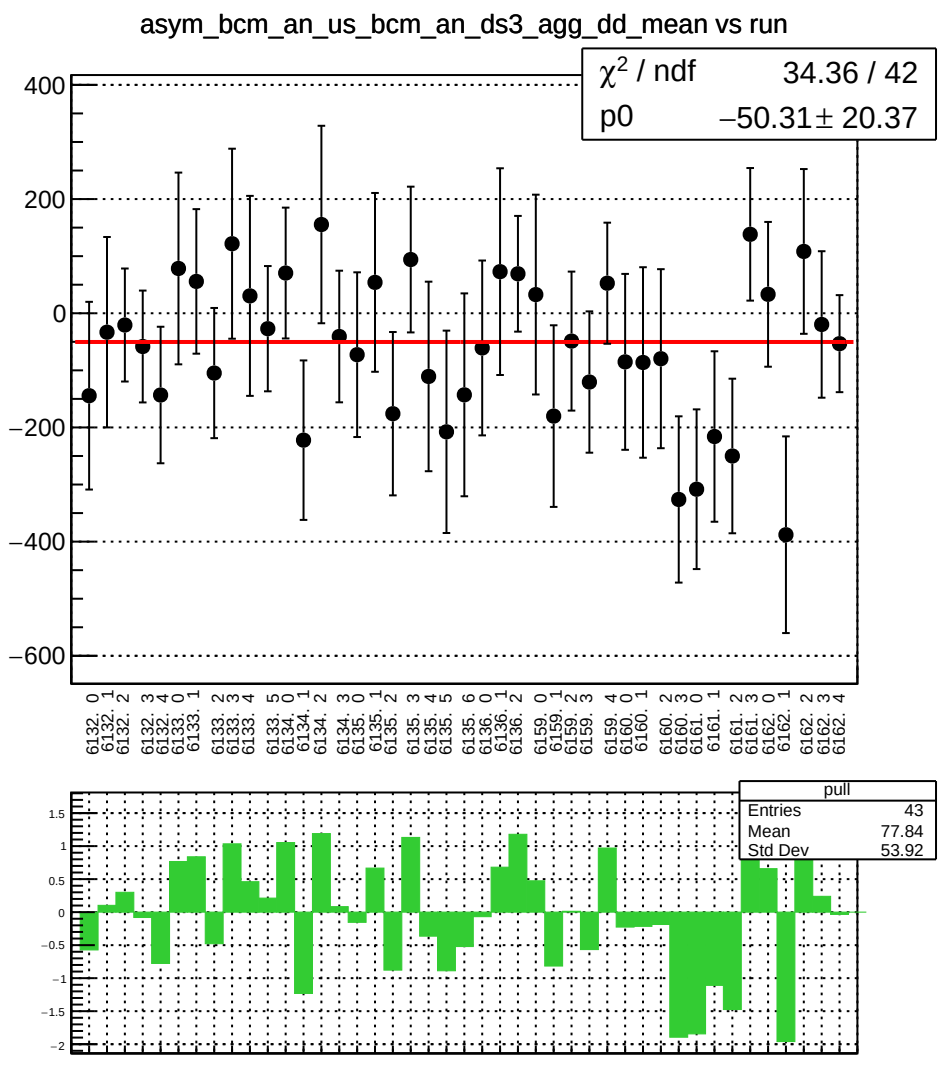

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.03e+04 / 42
p0 308.4 ± 0.332
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

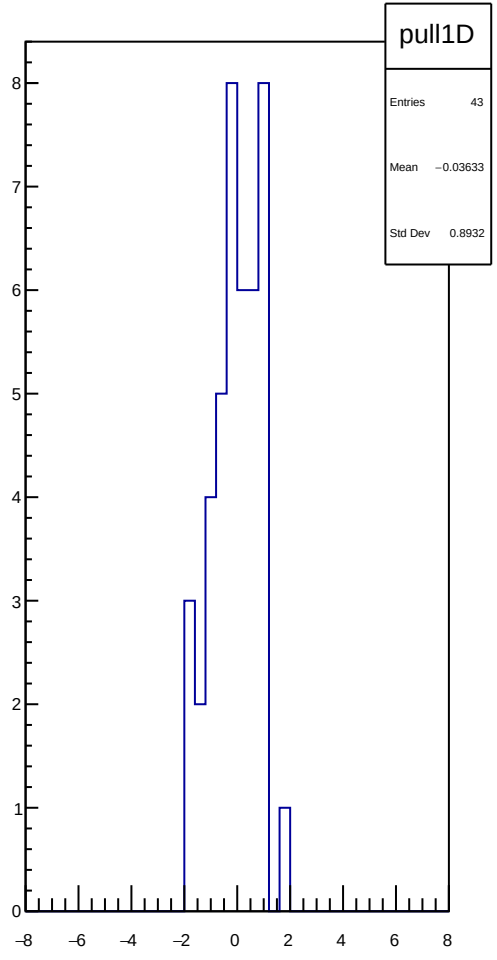

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 38.45 / 42
p0 −50.4 ± 21
400
200
0
−200
−400
−600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 55.72
Std Dev 31.35
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.03816
Std Dev 0.9449
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

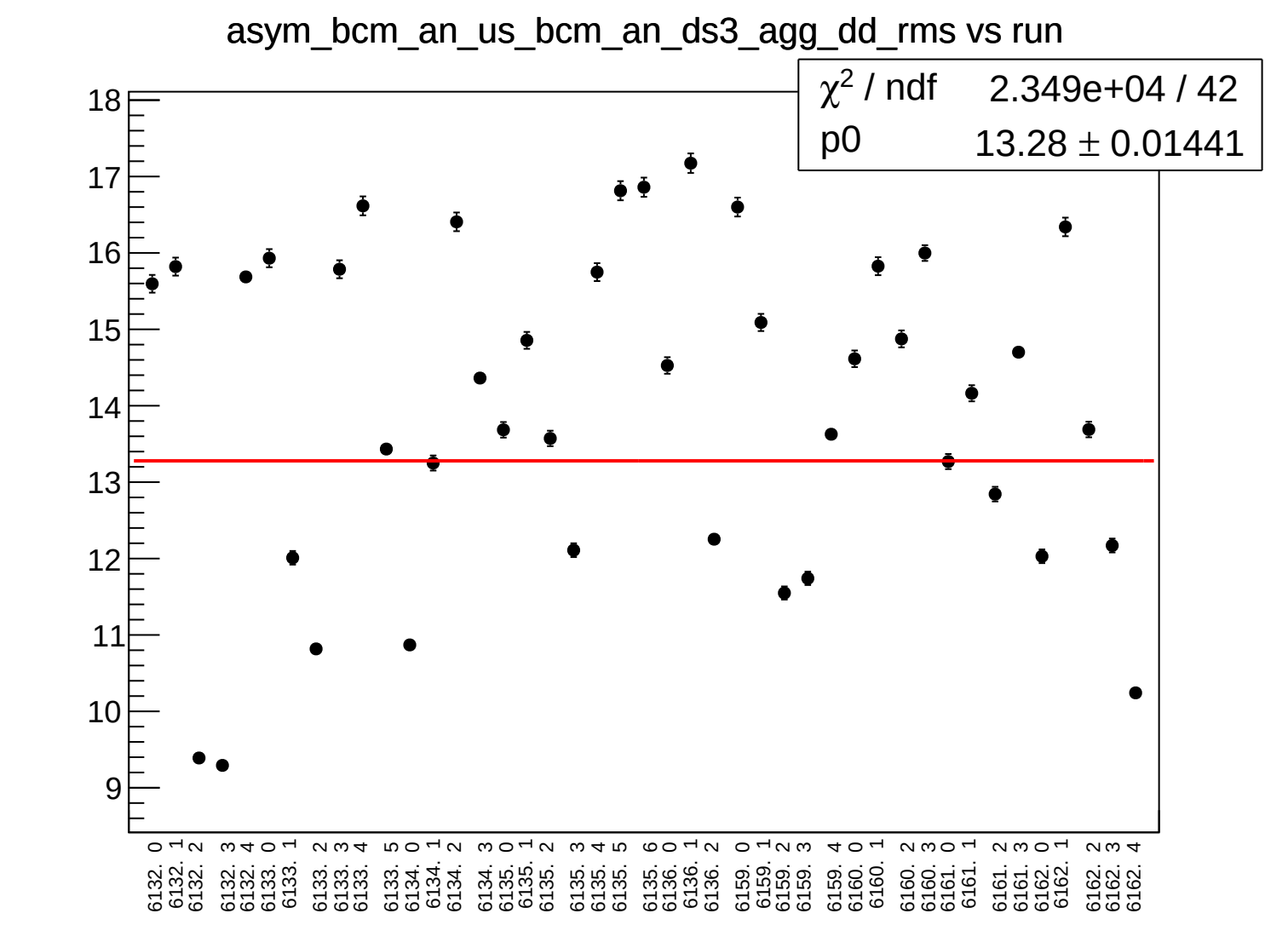

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.137e+04 / 42
p0 13.7 ± 0.01485
18
17
16
15
14
13
12
11
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

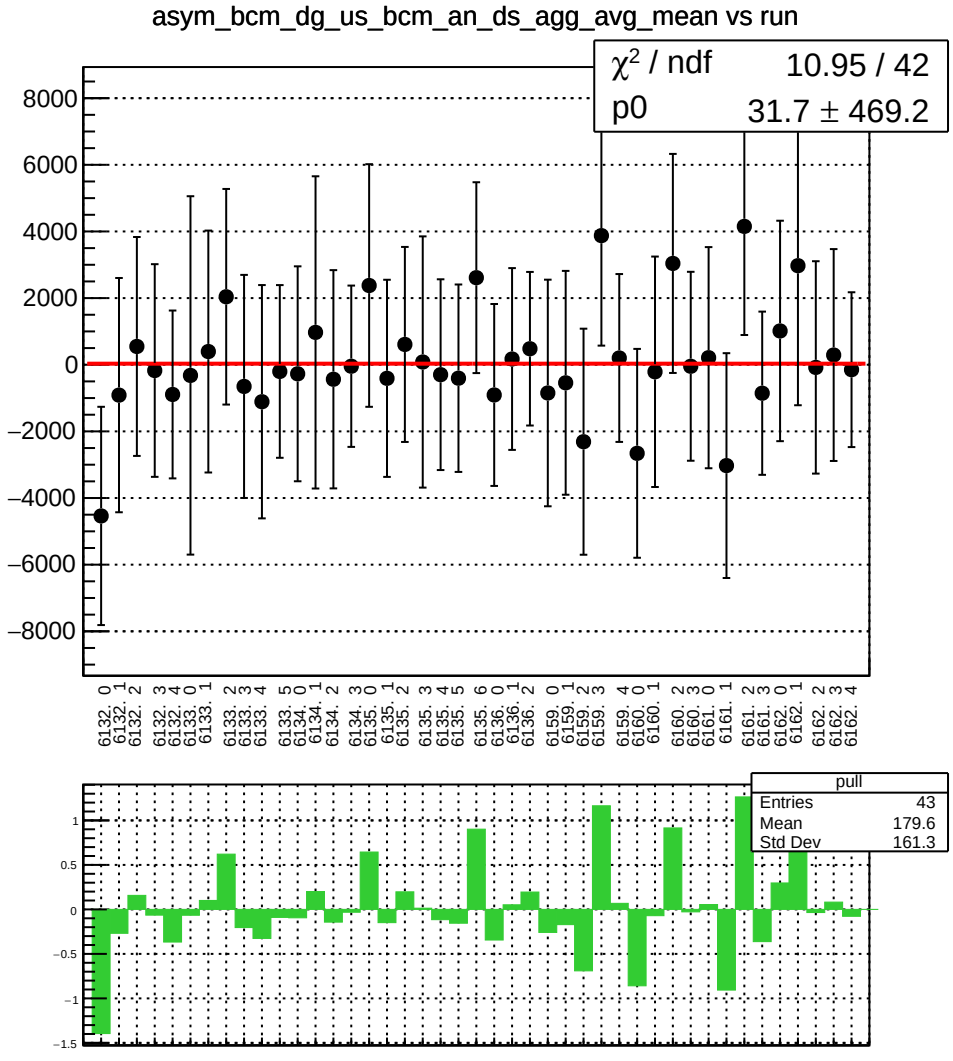

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 10.3 / 42
p0 −16.79 ± 470
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 188.3
Std Dev 169
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.008315
Std Dev 0.4894
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

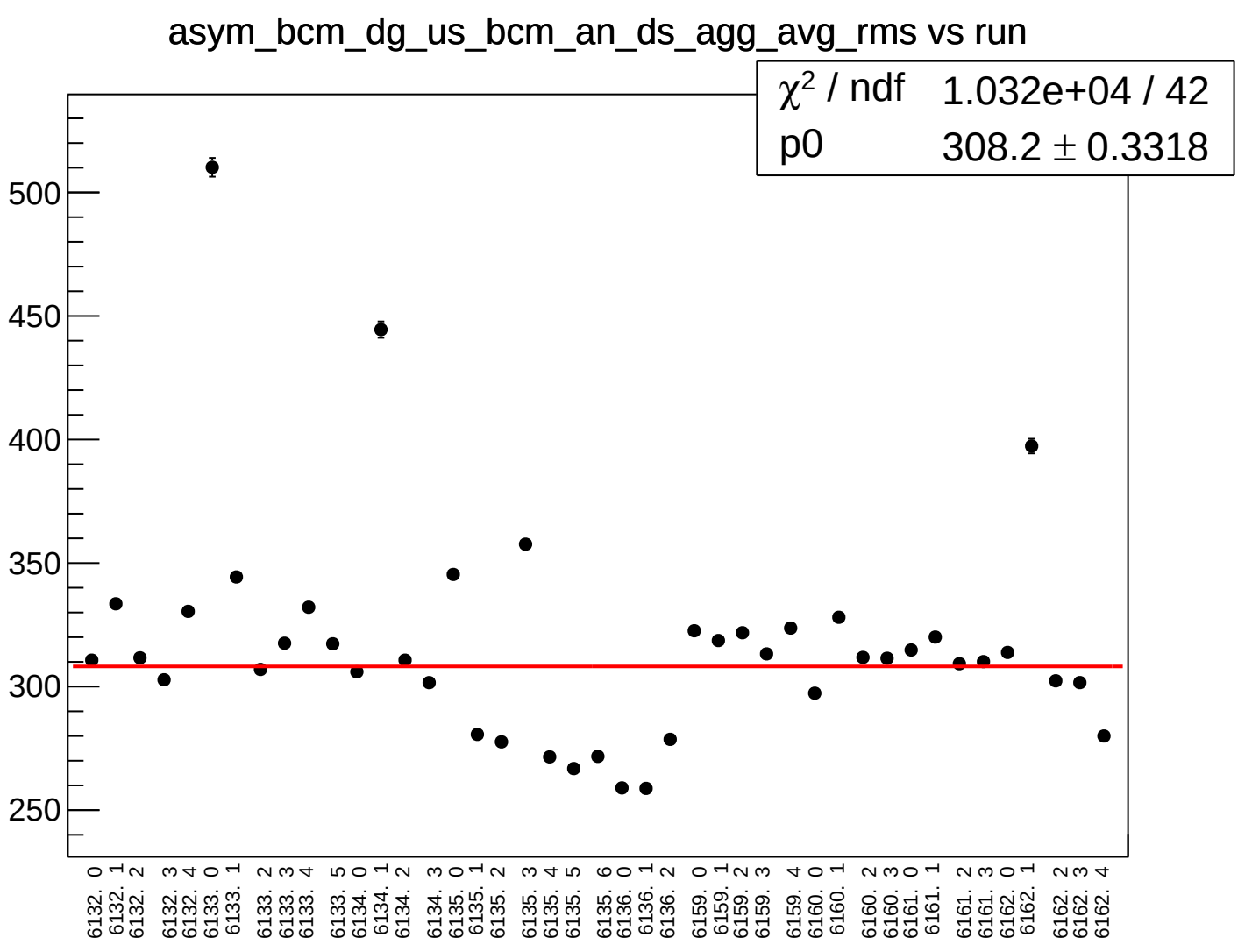

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.031e+04 / 42
p0 308.7 ± 0.3324
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

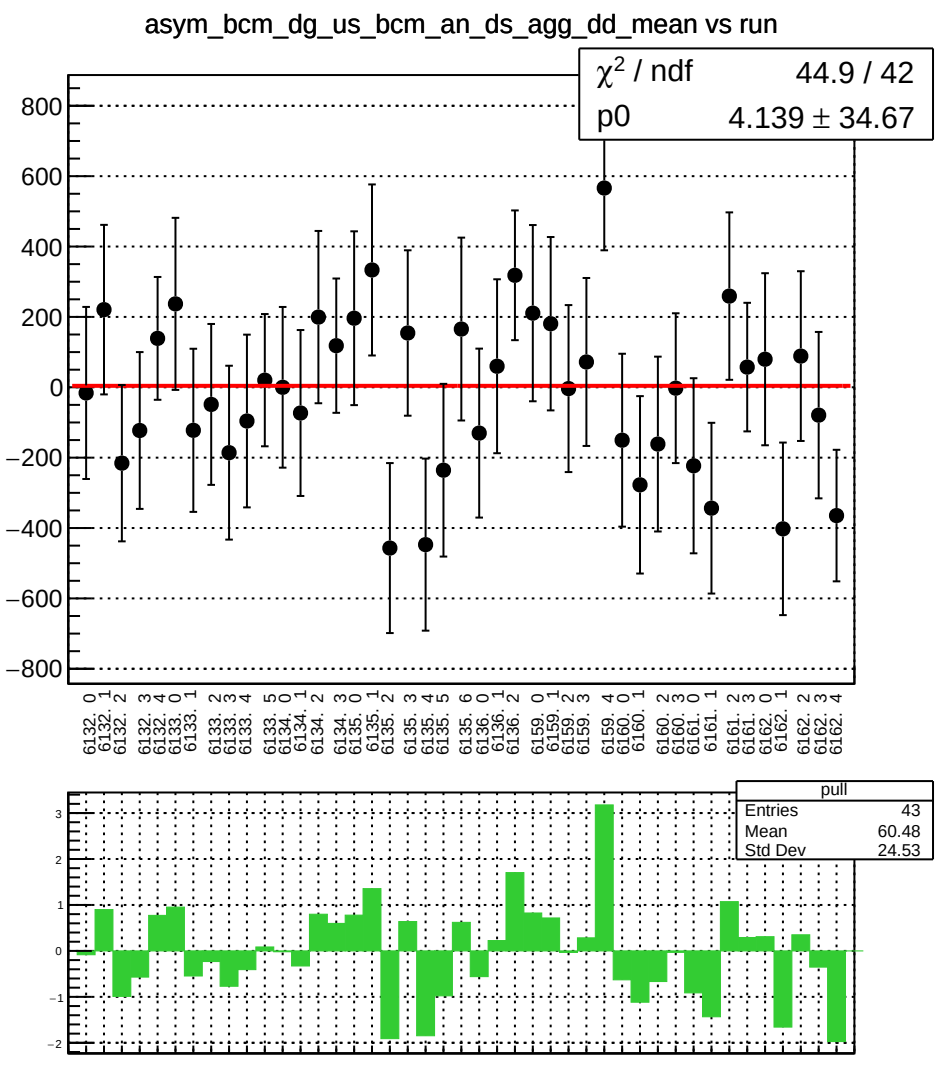

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 34.36 / 42
p0 −50.31 ± 20.37
pull
Entries 43
Mean 77.84
Std Dev 53.92

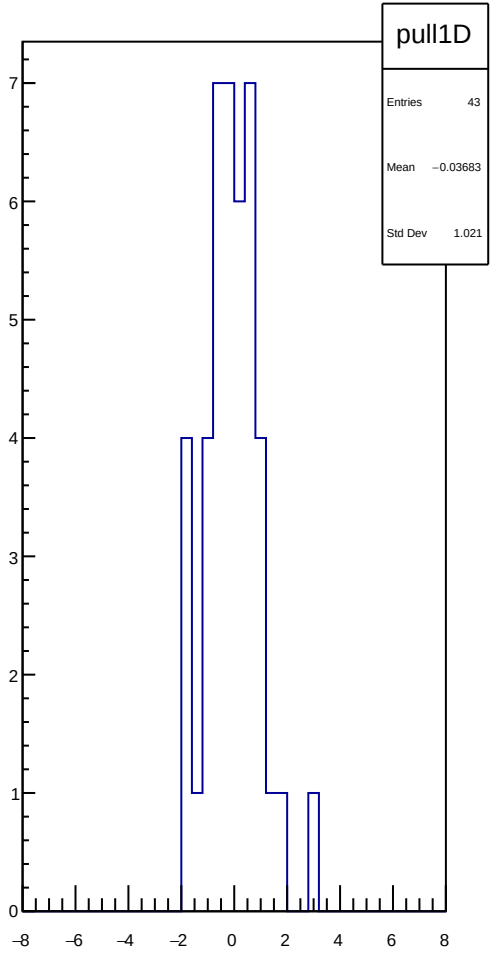

pull1D
Entries 43
Mean −0.03633
Std Dev 0.8932

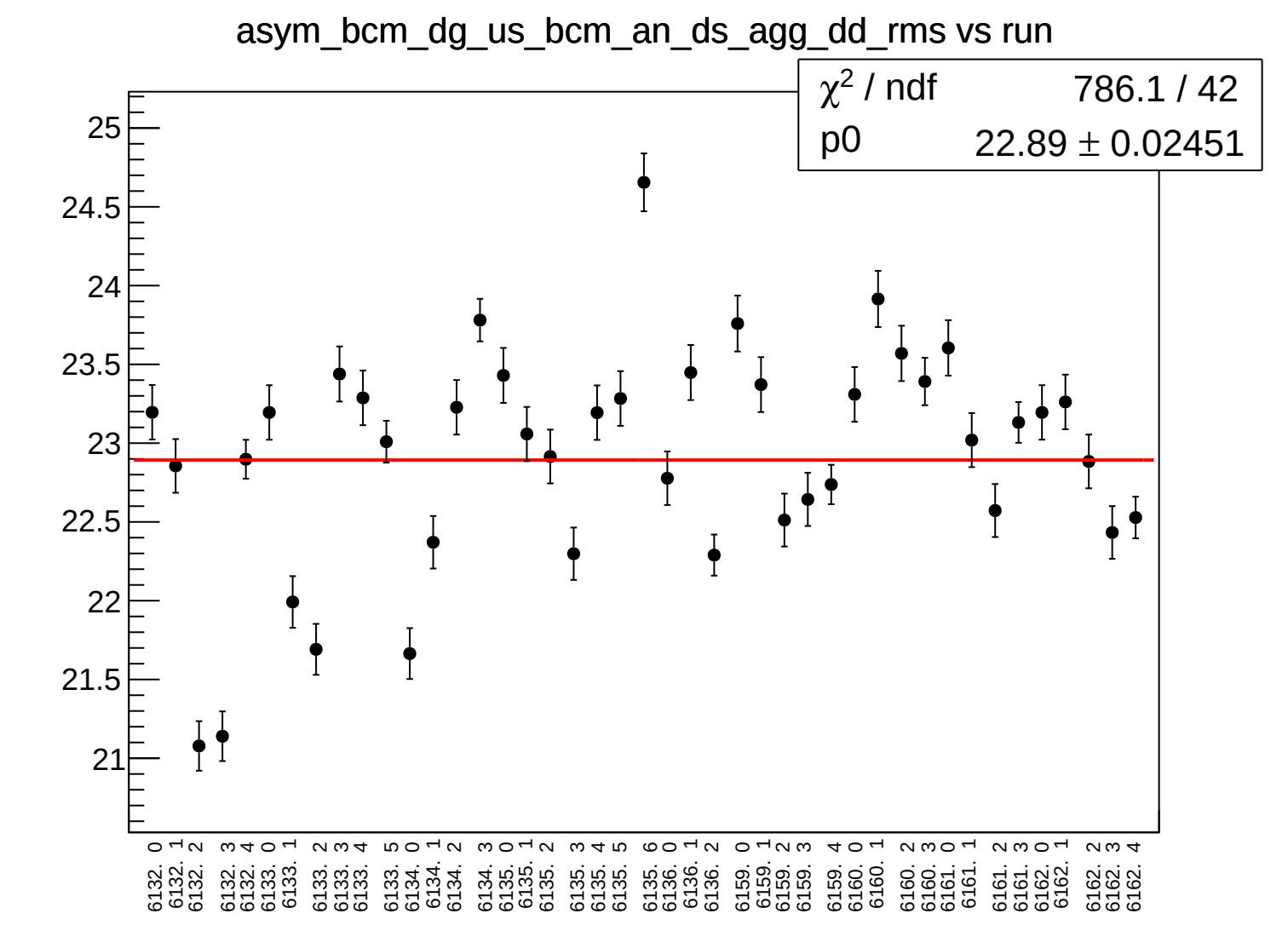

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2.349e+04 / 42
p0 13.28 ± 0.01441
18
17
16
15
14
13
12
11
10
9
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

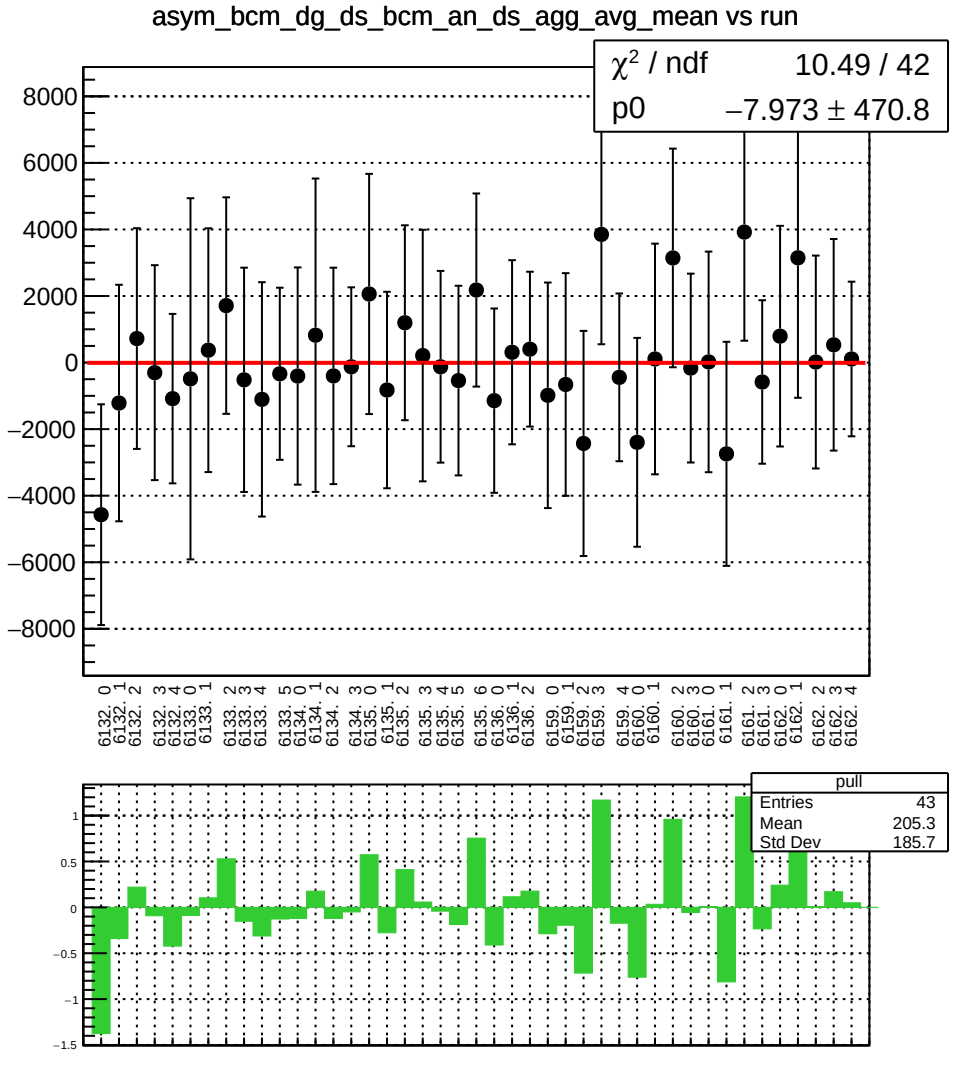

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 10.95 / 42
p0 31.7 ± 469.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 179.6
Std Dev 161.3
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.008373
Std Dev 0.5047
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

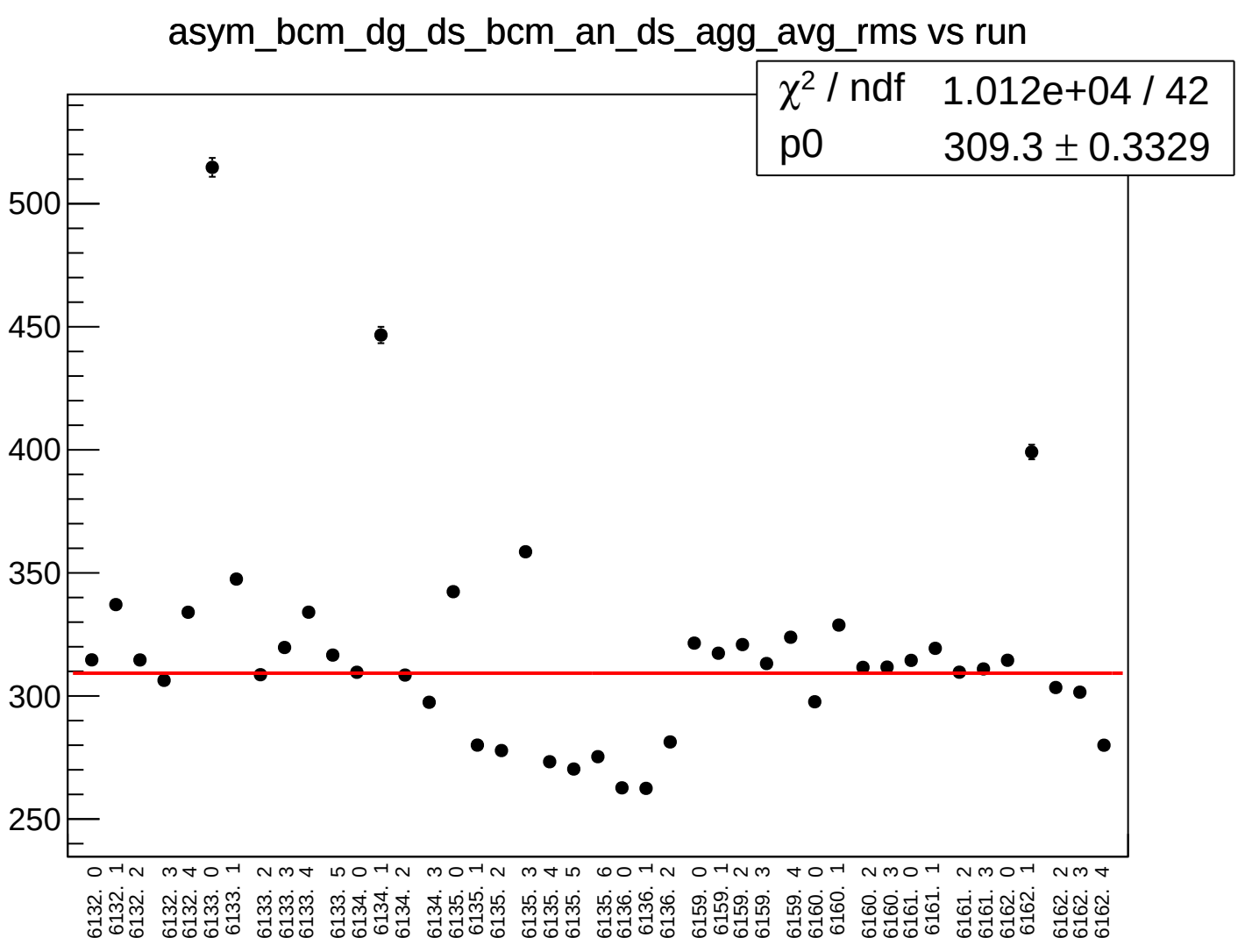

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.032e+04 / 42
p0 308.2 ± 0.3318
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

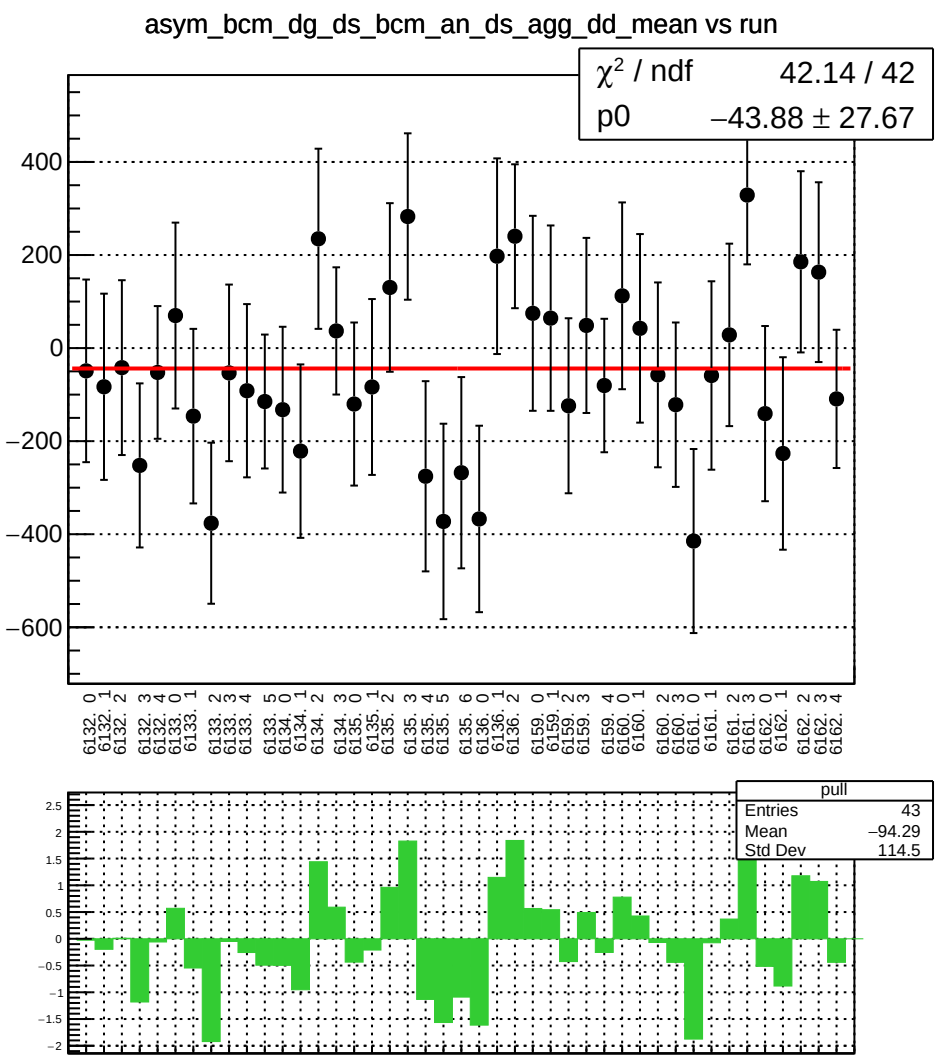

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 44.9 / 42
p0 4.139 ± 34.67
800
600
400
200
0
−200
−400
−600
−800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 60.48
Std Dev 24.53
3
2
1
0
−1
−2

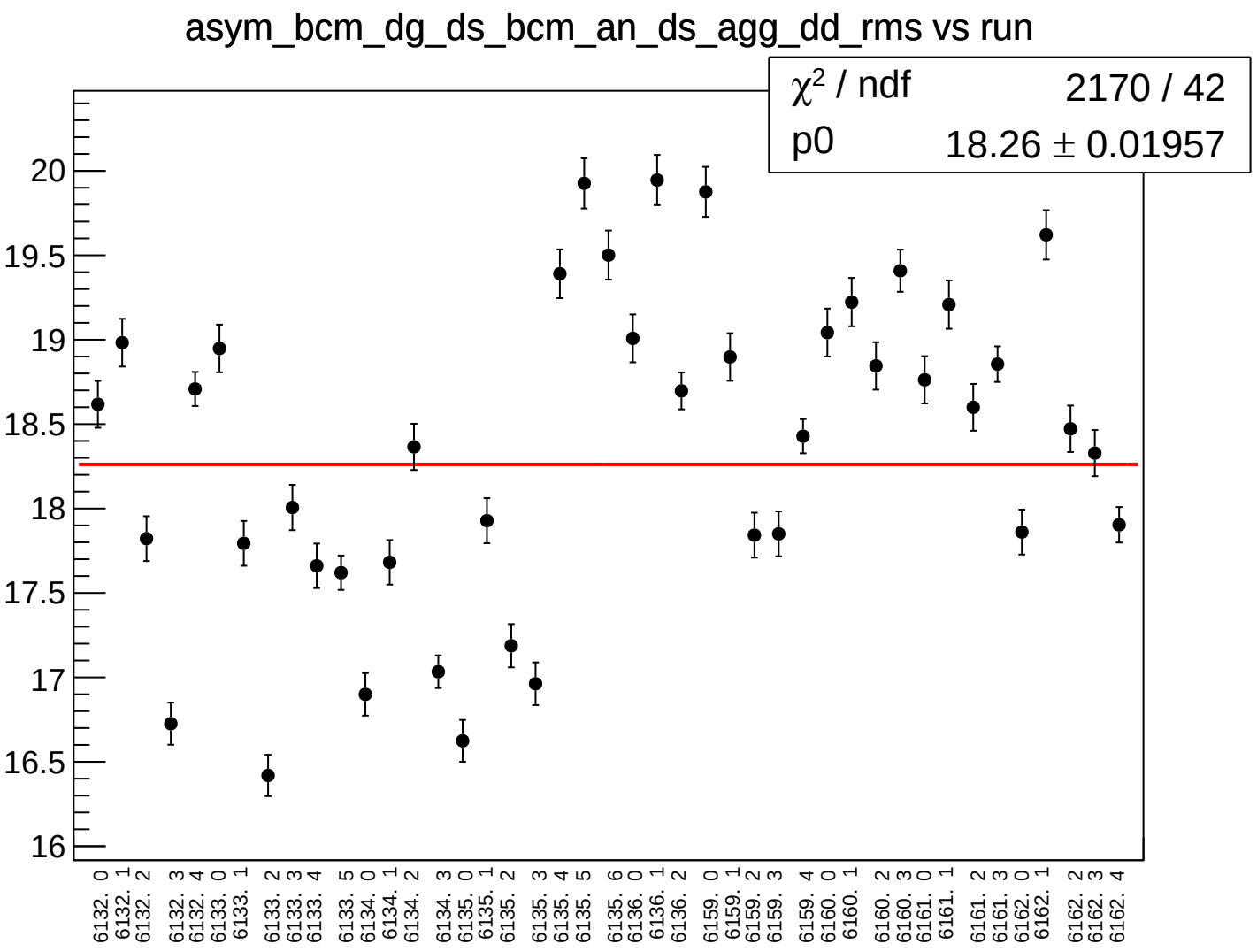

pull1D
Entries 43
Mean −0.03683
Std Dev 1.021
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

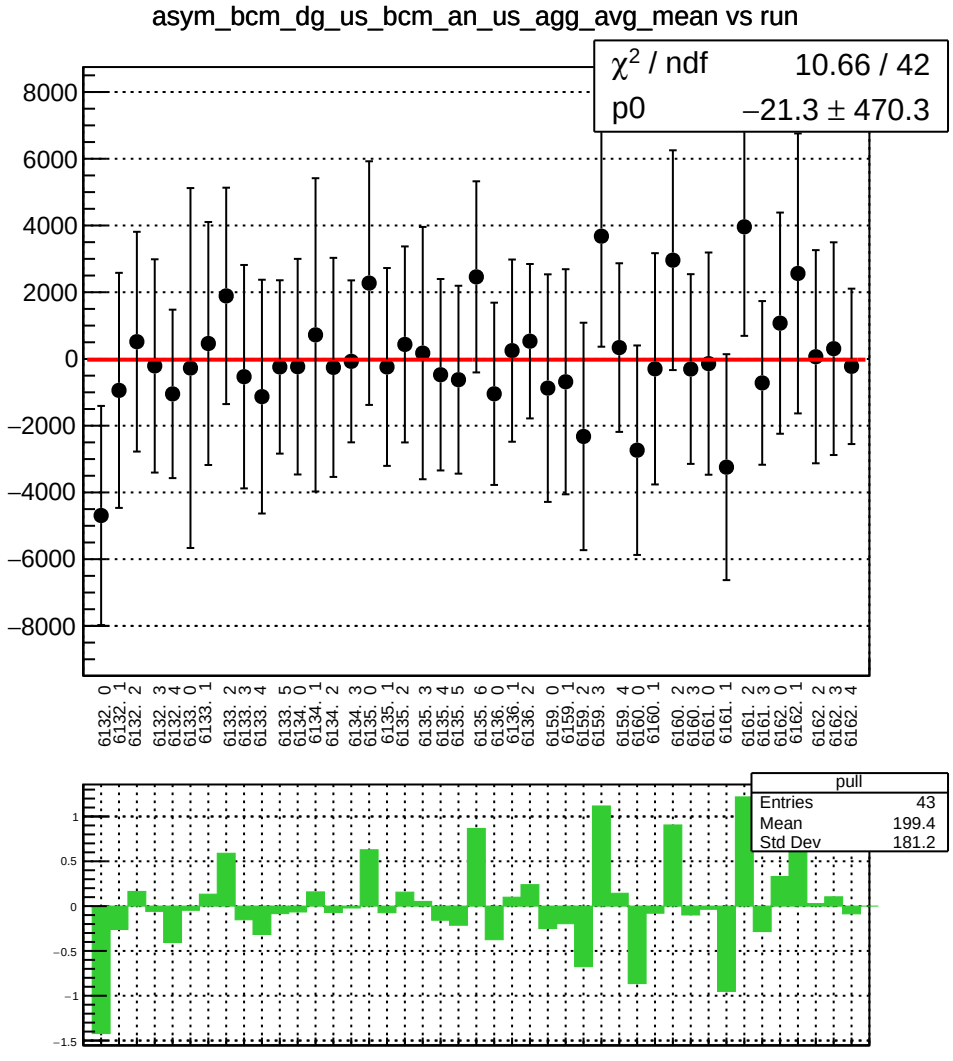

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 786.1 / 42
p0 22.89 ± 0.02451
25
24.5
24
23.5
23
22.5
22
21.5
21
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

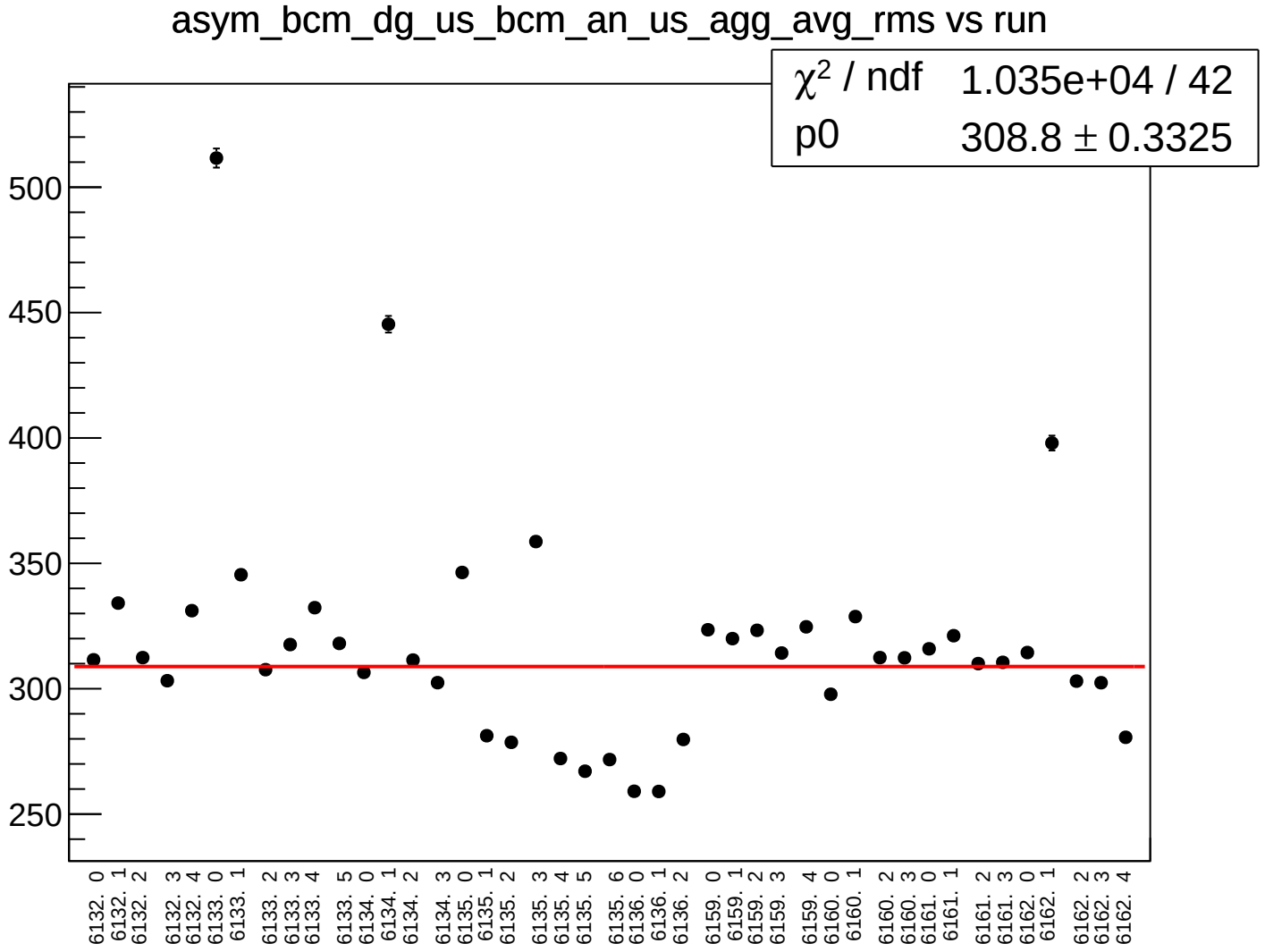

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 10.49 / 42
p0 −7.973 ± 470.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 205.3
Std Dev 185.7
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.008427
Std Dev 0.4938
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

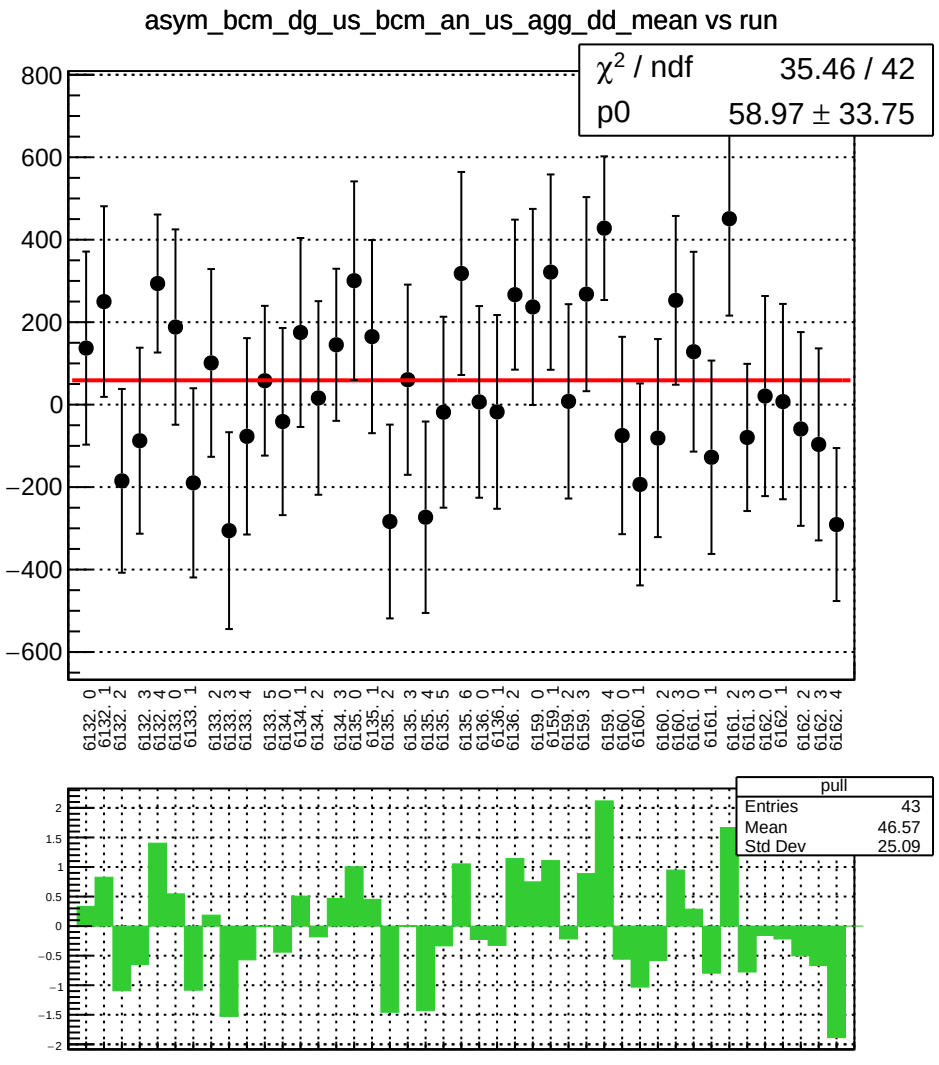

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.012e+04 / 42
p0 309.3 ± 0.3329
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

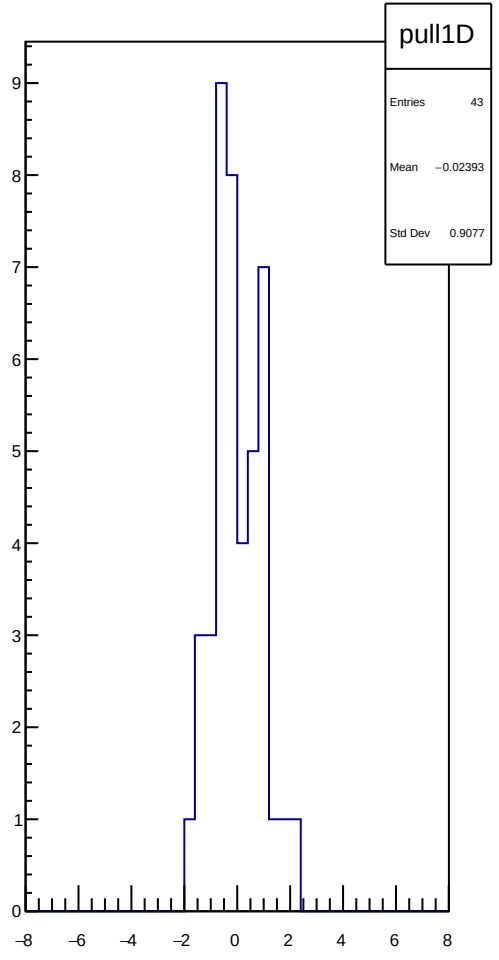

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 42.14 / 42
p0 −43.88 ± 27.67
400
200
0
−200
−400
−600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −94.29
Std Dev 114.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.0207
Std Dev 0.9897
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

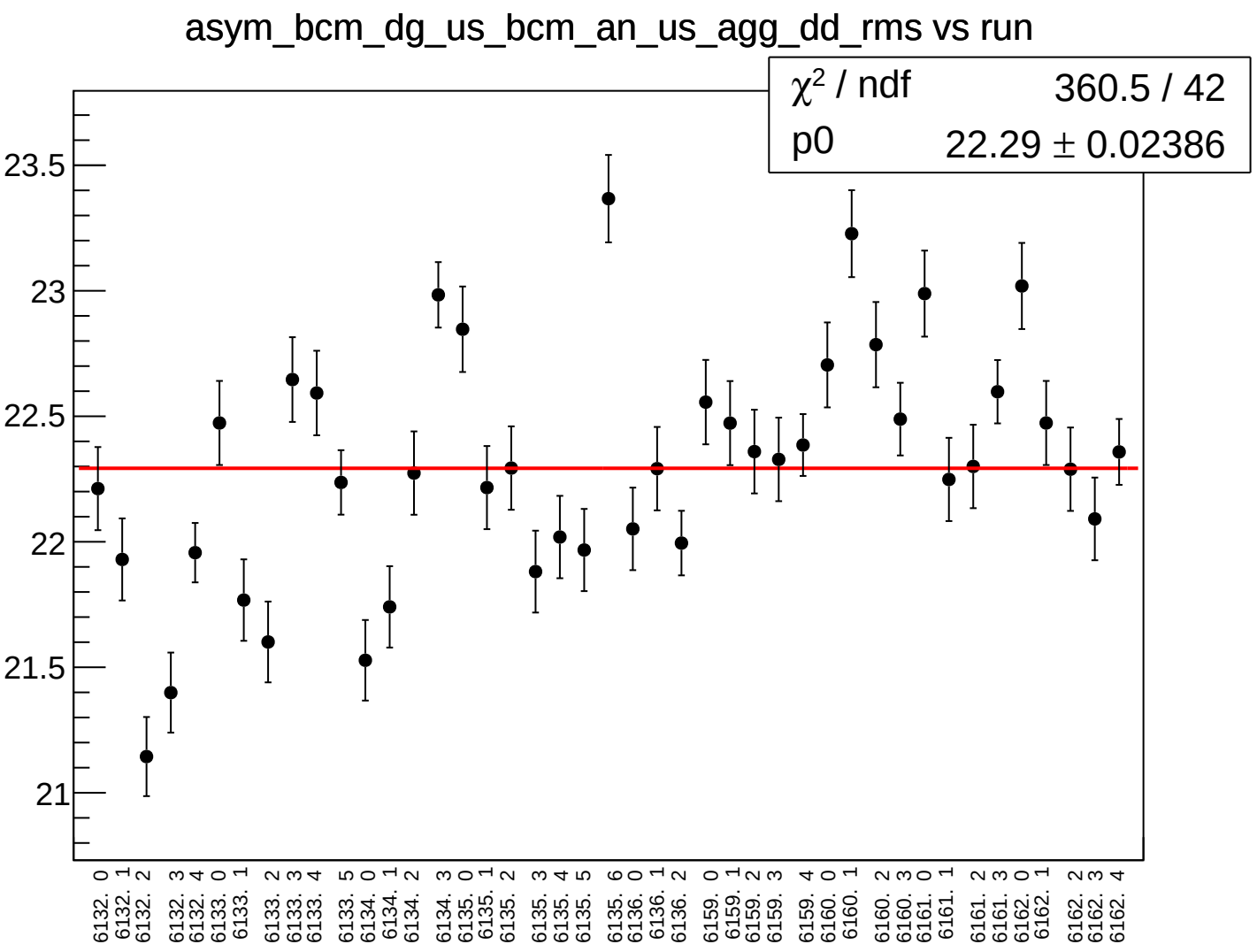

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2170 / 42
p0 18.26 ± 0.01957
20
19.5
19
18.5
18
17.5
17
16.5
16
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 10.66 / 42
p0 −21.3 ± 470.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 199.4
Std Dev 181.2
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.007128
Std Dev 0.4979
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.035e+04 / 42
p0 308.8 ± 0.3325
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 35.46 / 42
p0 58.97 ± 33.75
pull
Entries 43
Mean 46.57
Std Dev 25.09


pull1D
Entries 43
Mean −0.02393
Std Dev 0.9077


asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 360.5 / 42
p0 22.29 ± 0.02386
23.5
23
22.5
22
21.5
21
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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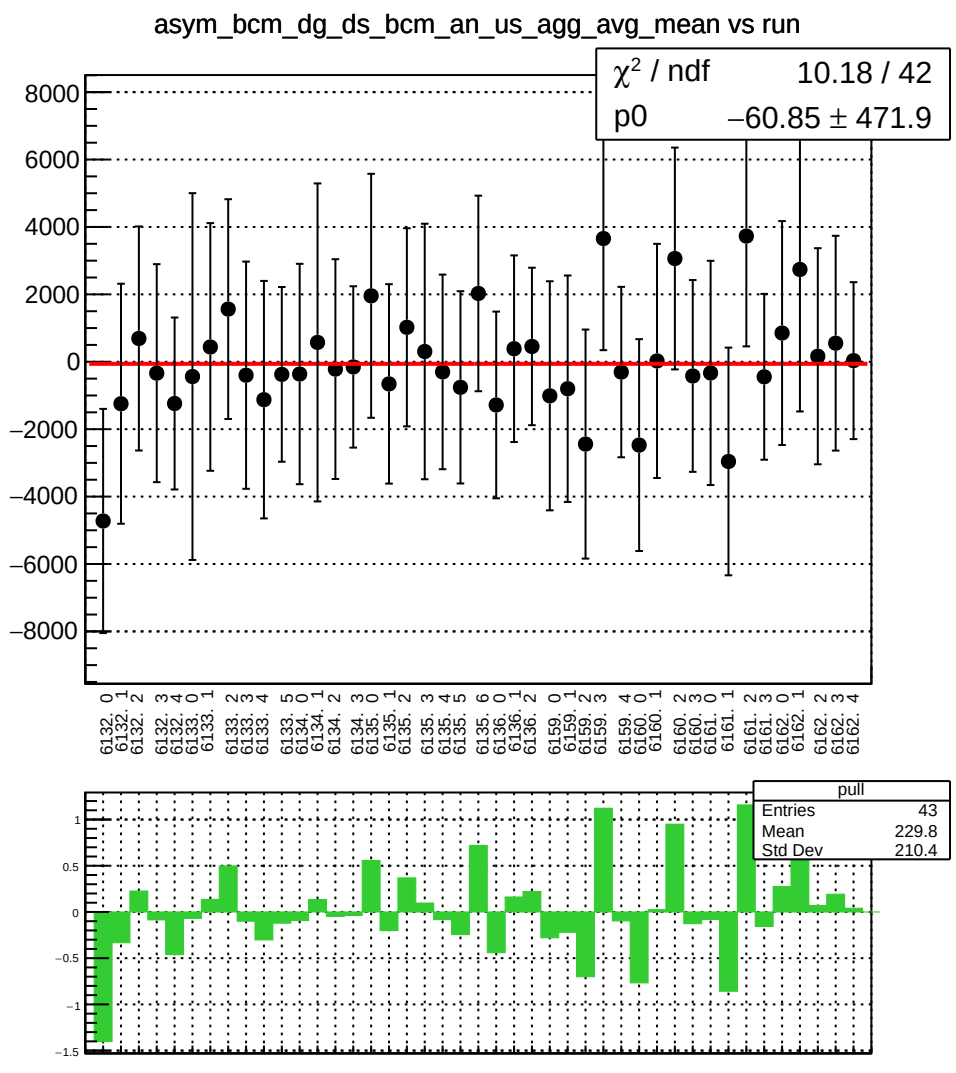
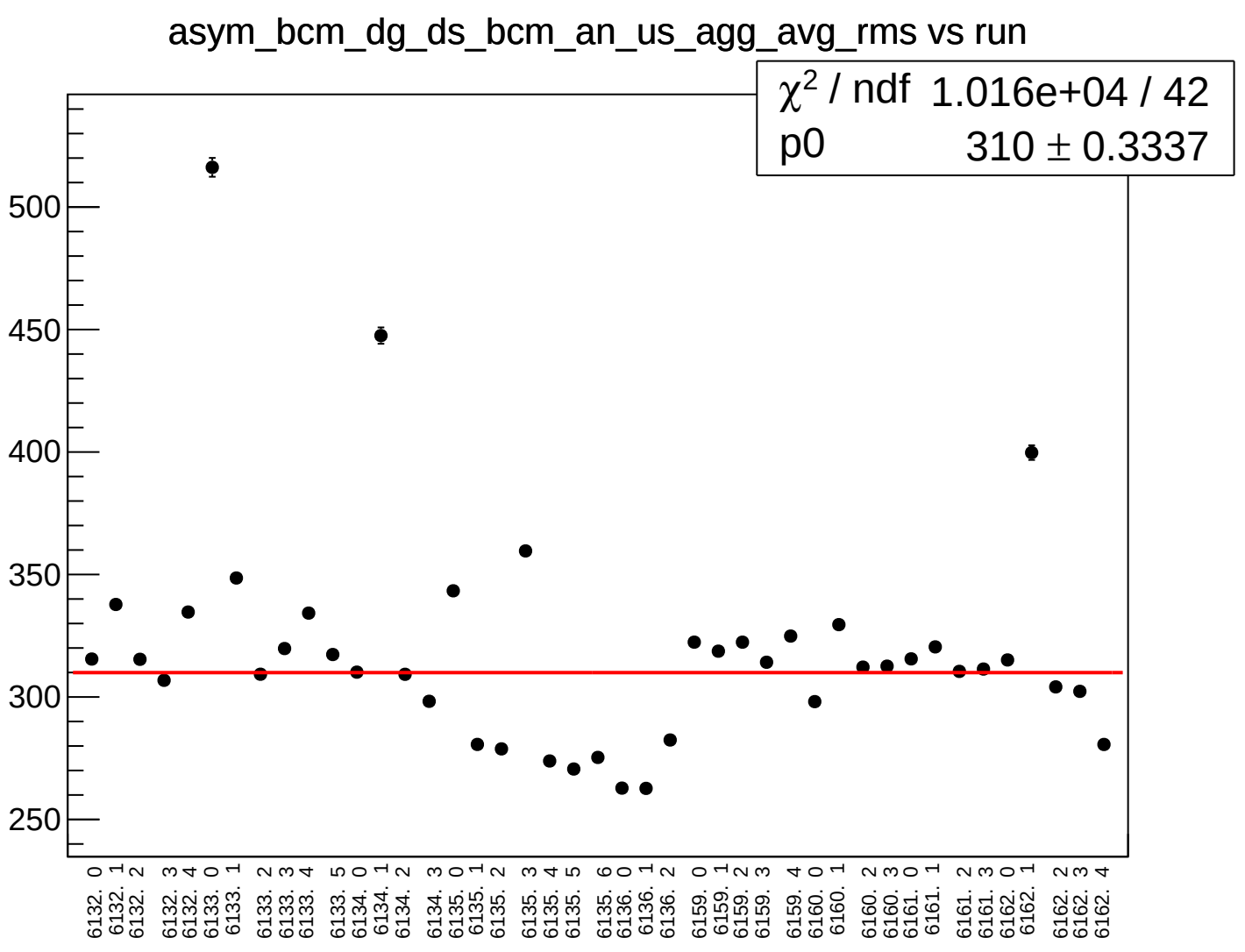
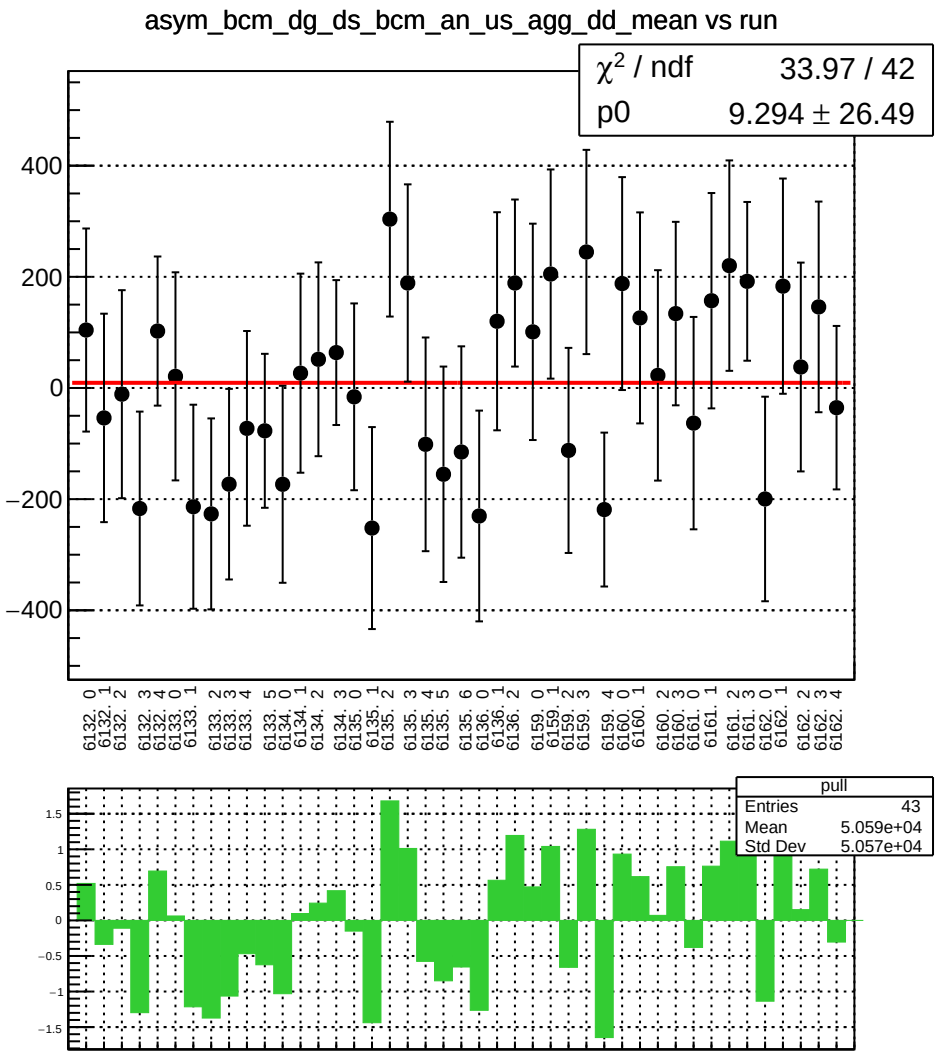
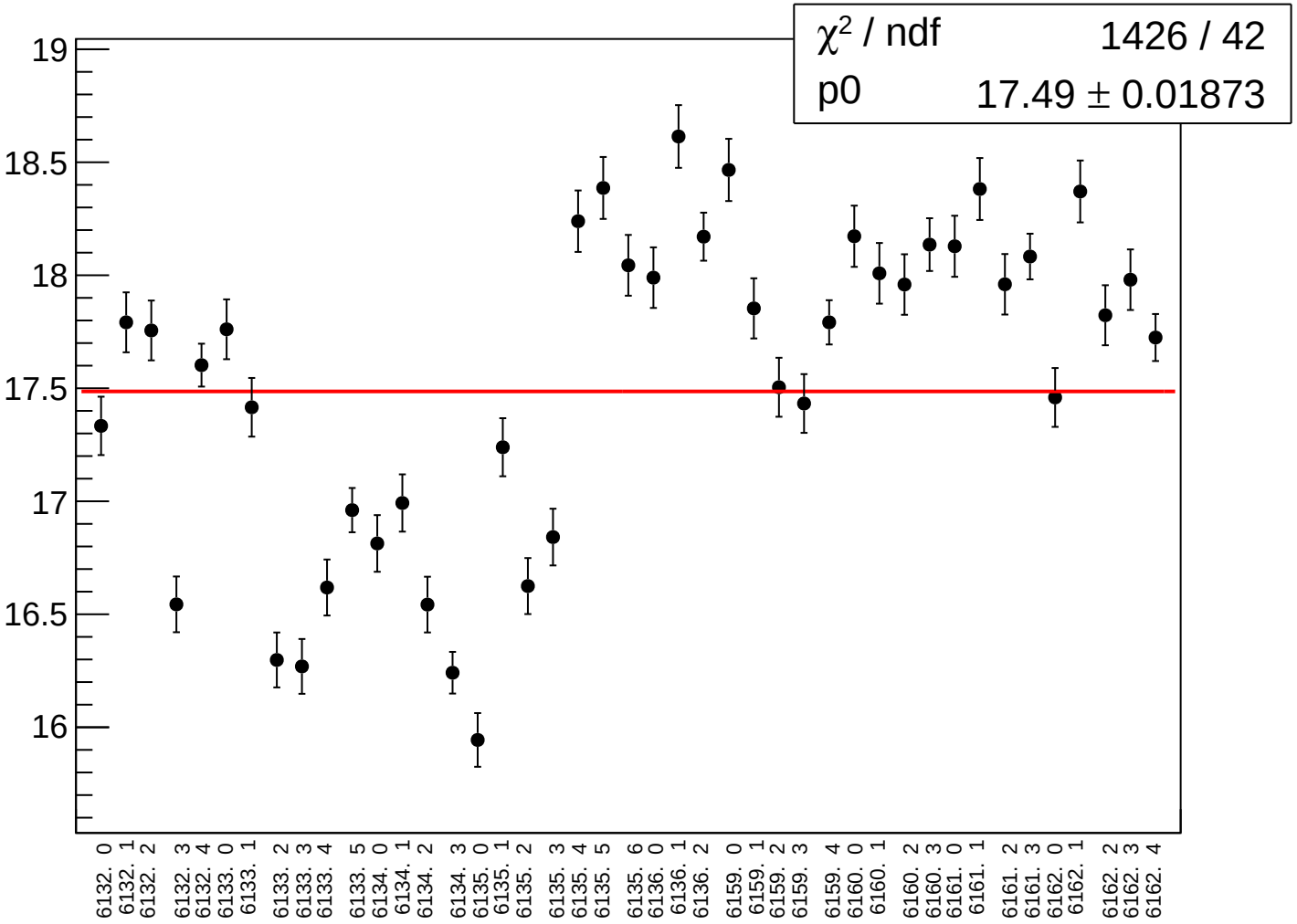
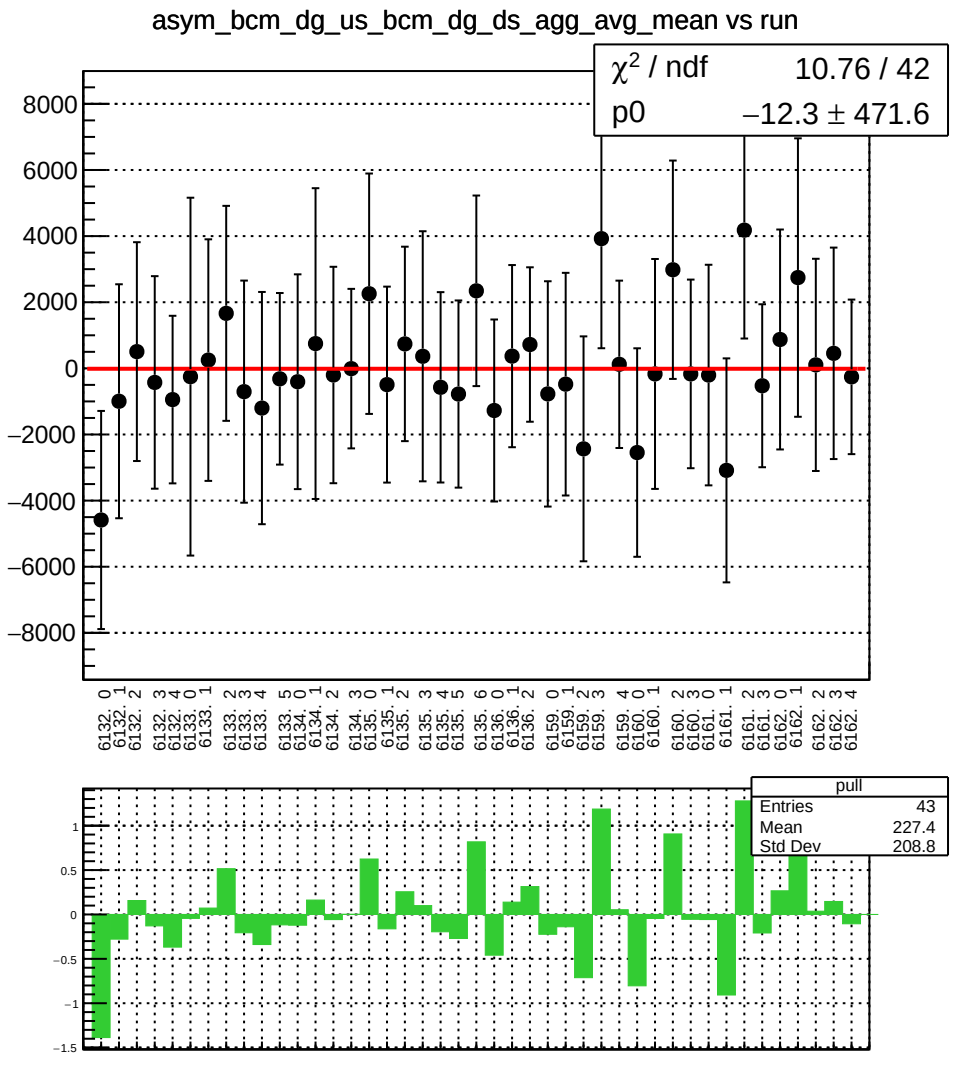
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

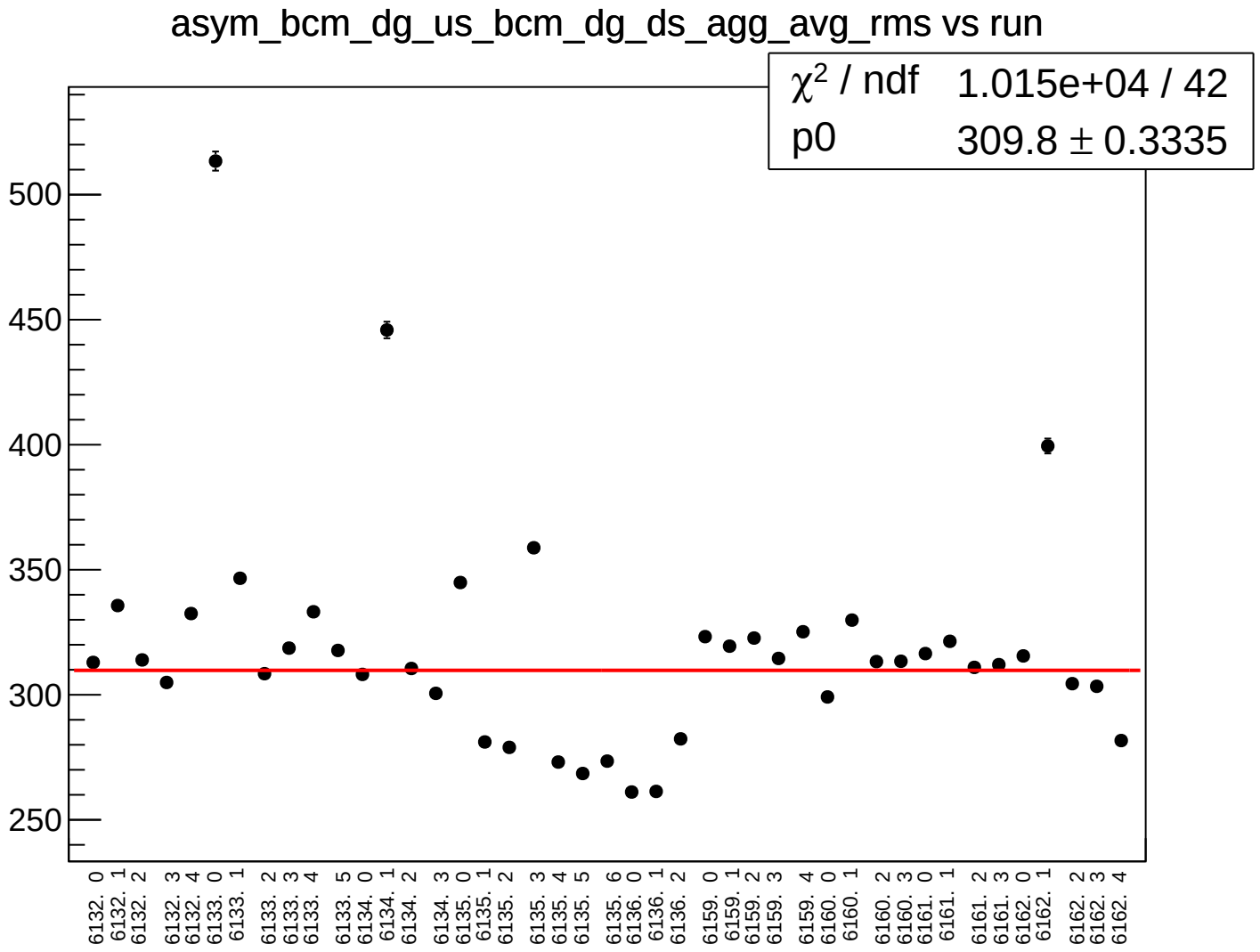

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 10.18 / 42
p0 −60.85 ± 471.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 229.8
Std Dev 210.4
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.007161
Std Dev 0.4865
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

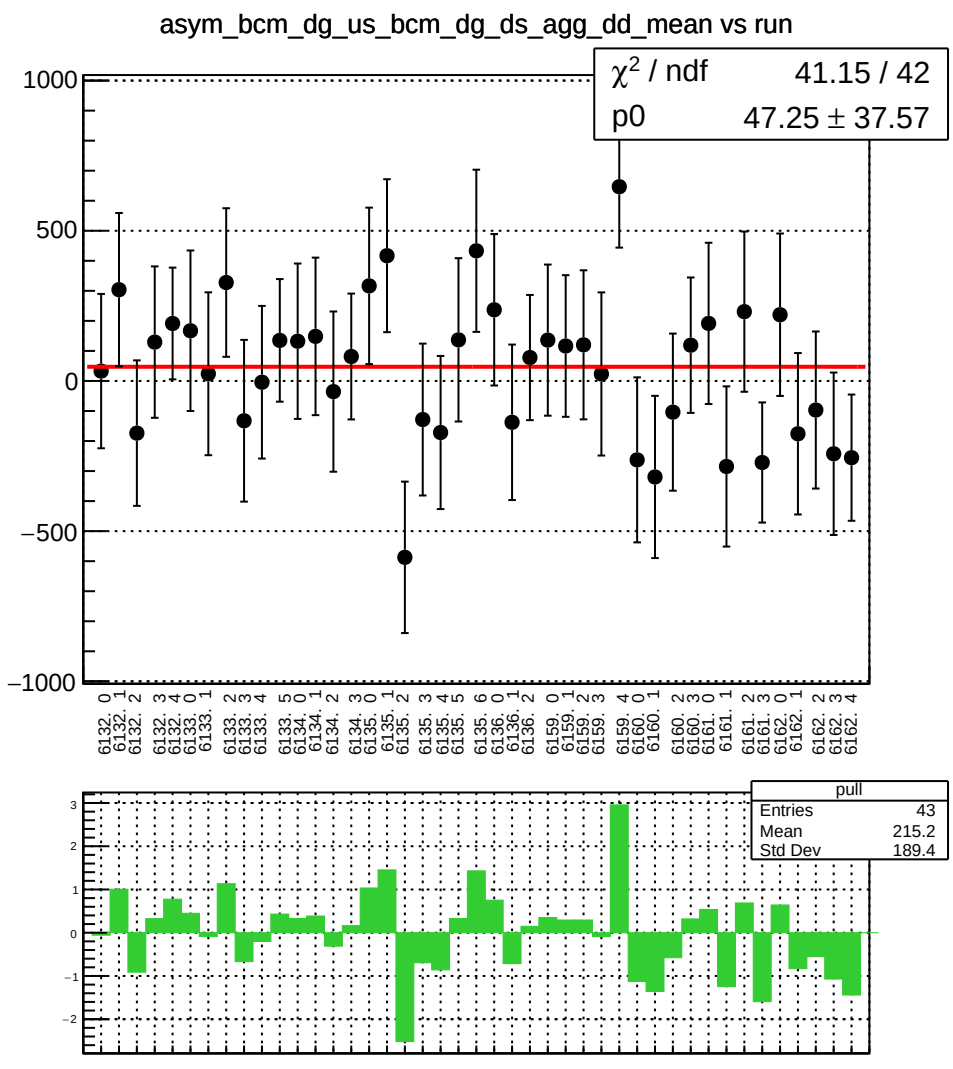

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.016e+04 / 42
p0 310 ± 0.3337
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

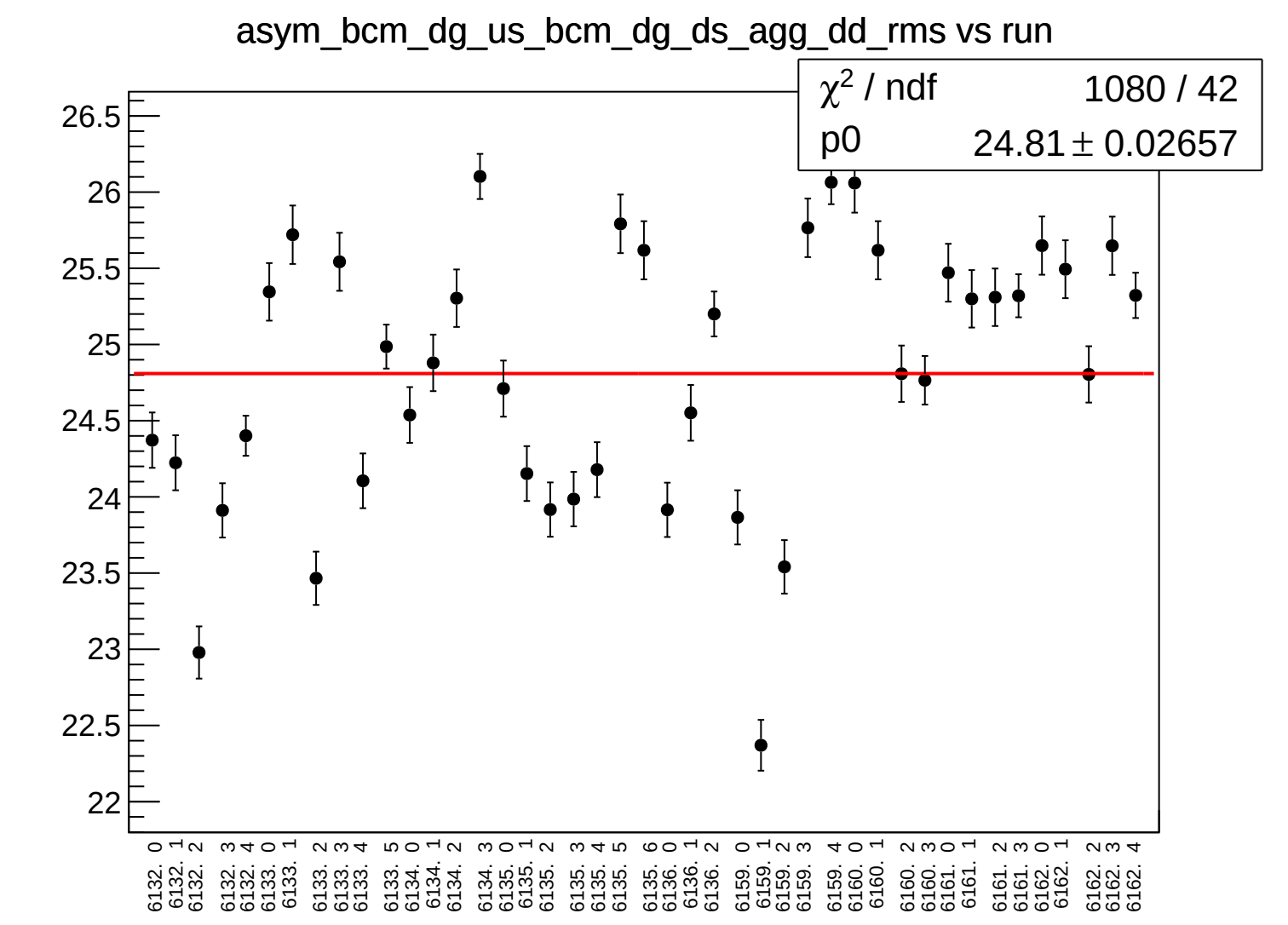

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 33.97 / 42
p0 9.294 ± 26.49
400
200
0
−200
−400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 5.059e+04
Std Dev 5.057e+04
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 7.105e−05
Std Dev 0.8889
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

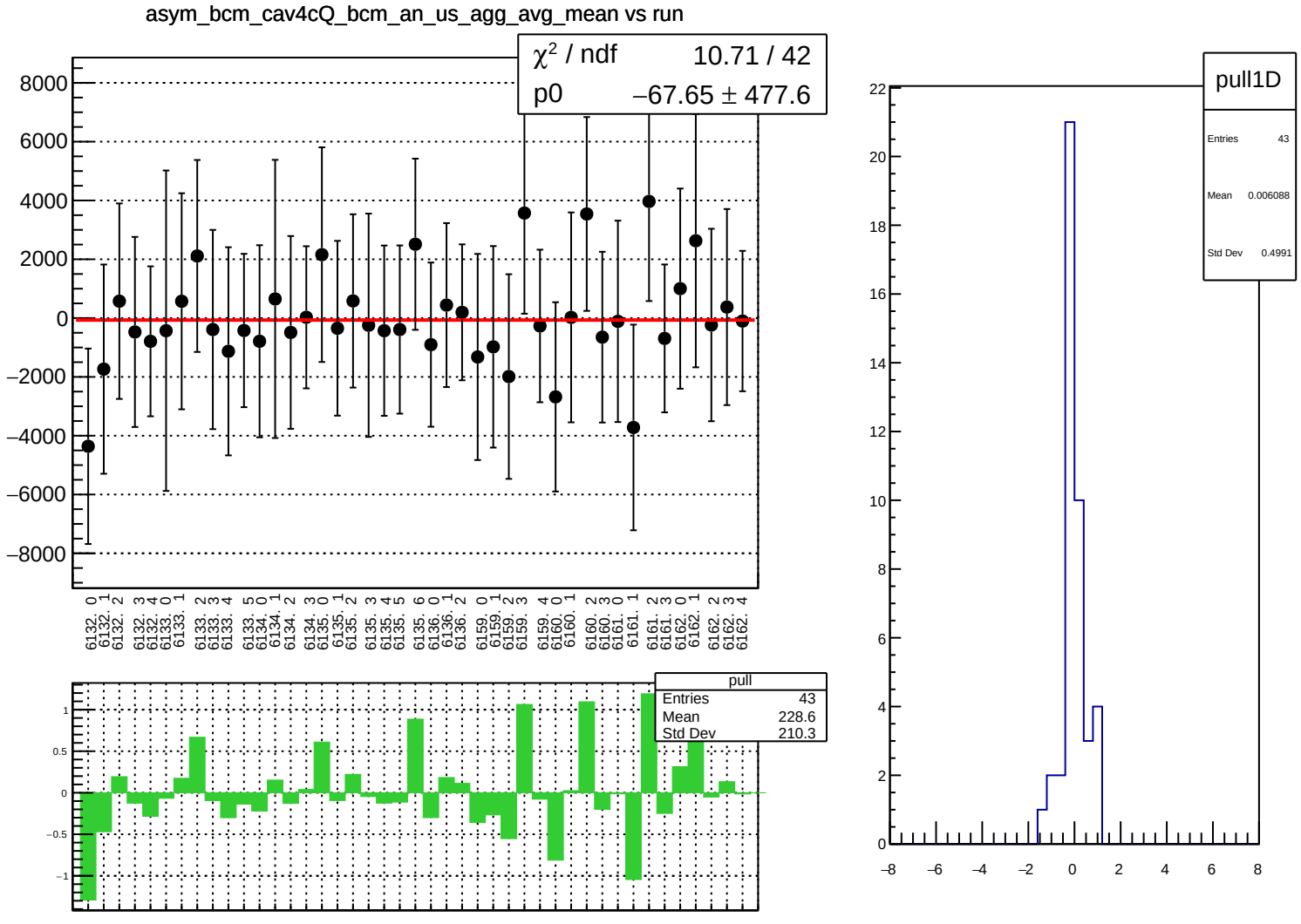

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1426 / 42
p0 17.49 ± 0.01873
19
18.5
18
17.5
17
16.5
16
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

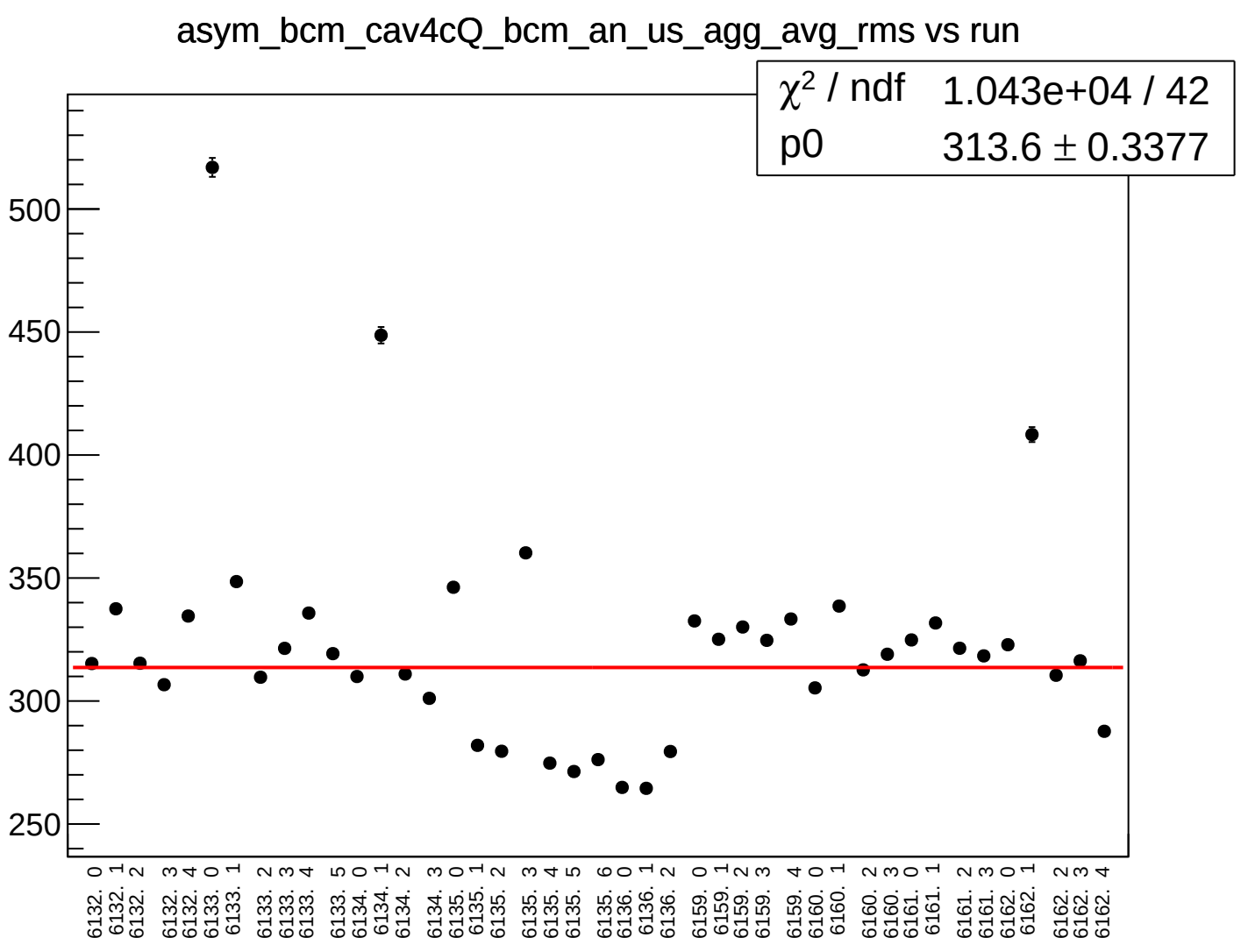

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 10.76 / 42
p0 −12.3 ± 471.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 227.4
Std Dev 208.8
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.007084
Std Dev 0.5003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

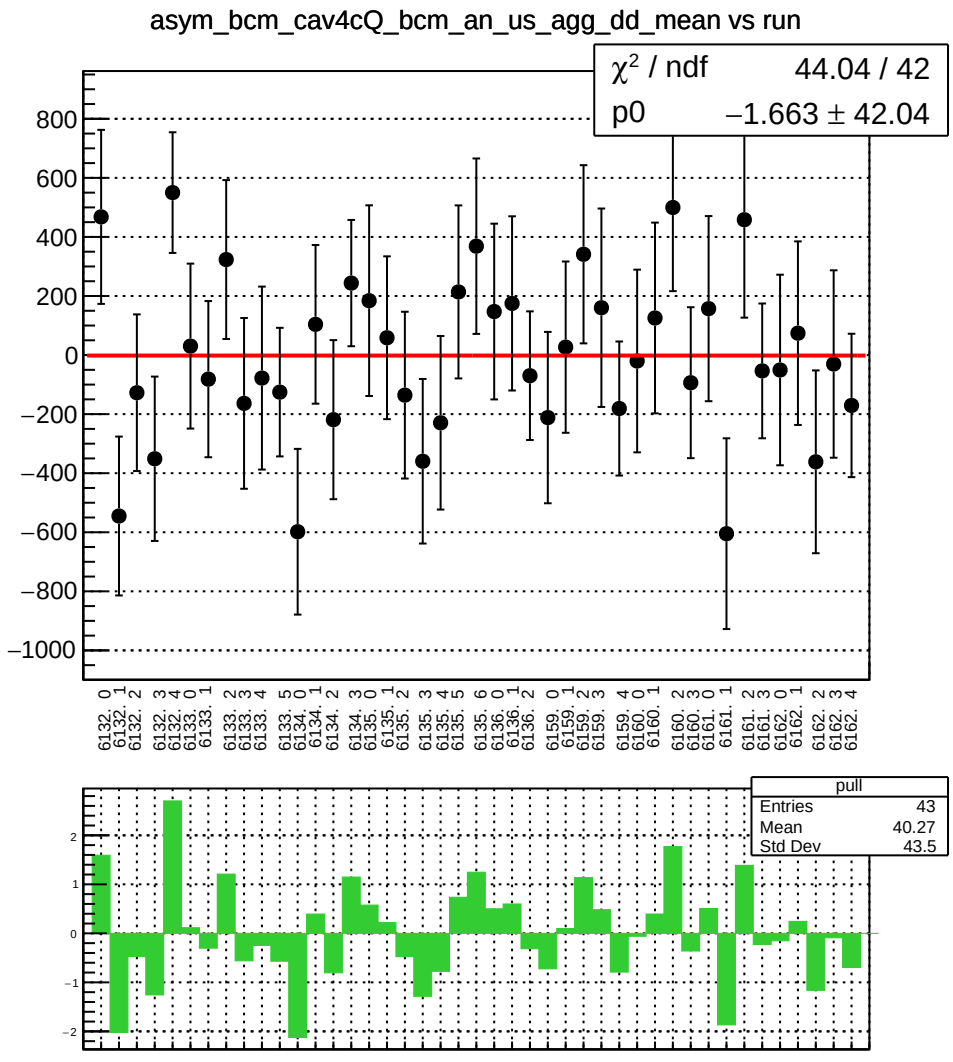

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.015e+04 / 42
p0 309.8 ± 0.3335
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

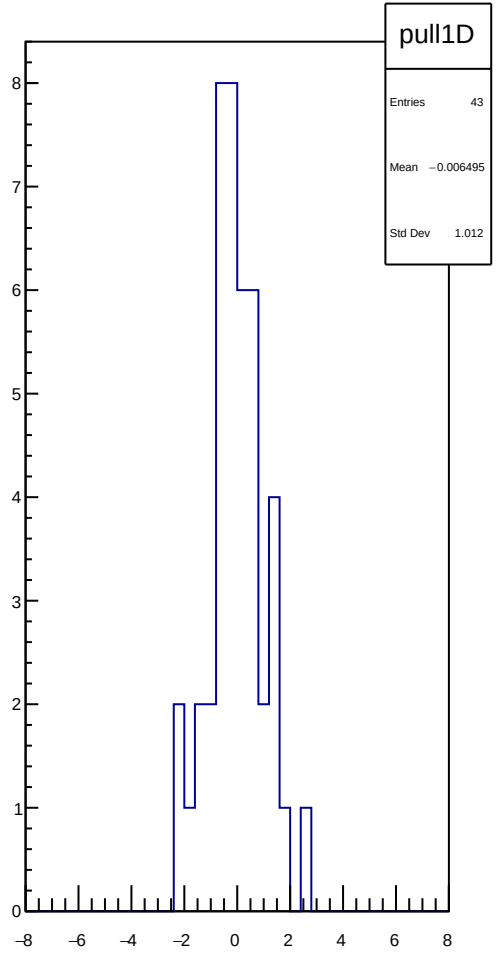

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 41.15 / 42
p0 47.25 ± 37.57
1000
500
0
−500
−1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 215.2
Std Dev 189.4
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01585
Std Dev 0.9782
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

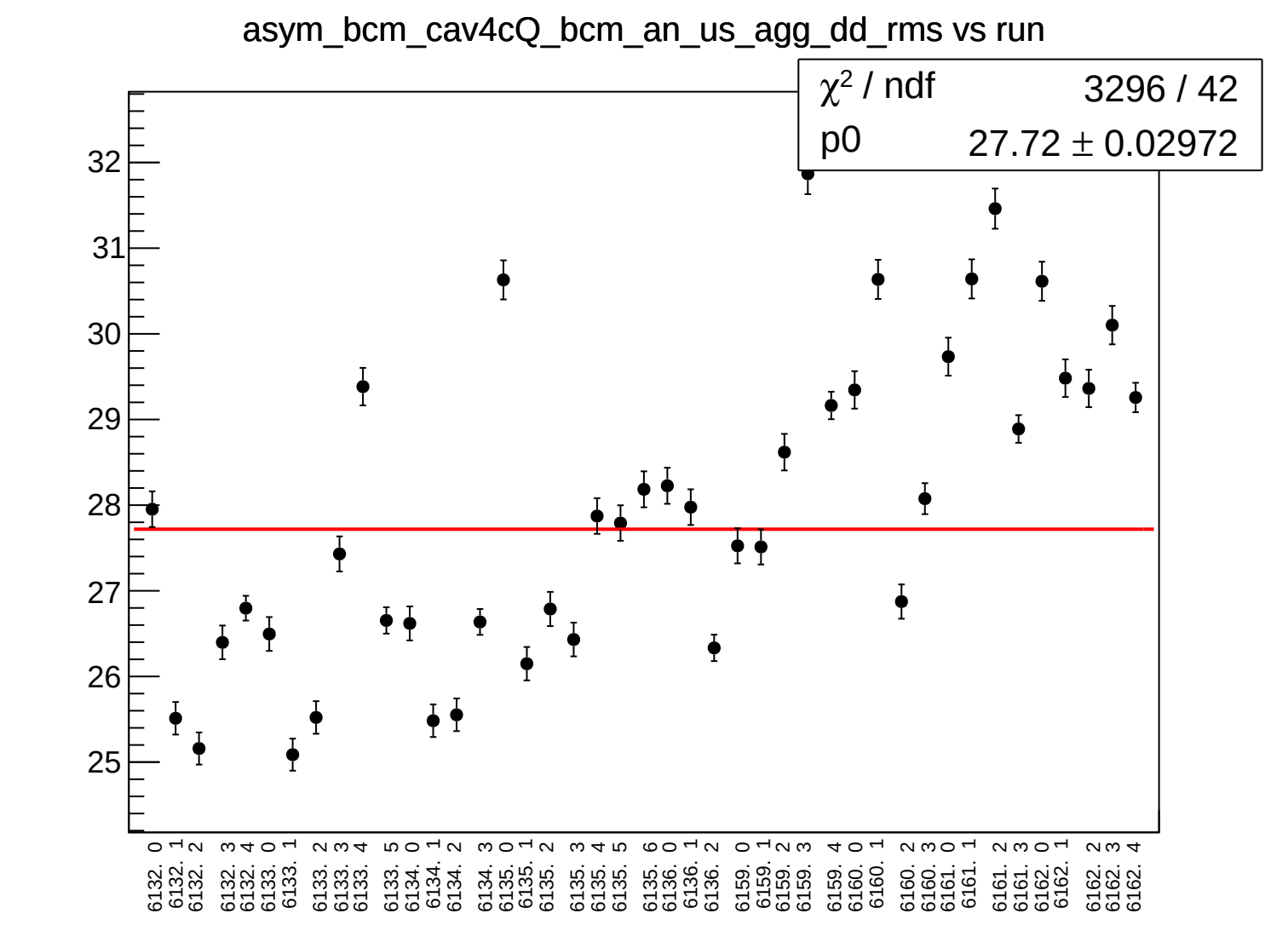

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1080 / 42
p0 24.81 ± 0.02657
26.5
26
25.5
25
24.5
24
23.5
23
22.5
22
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

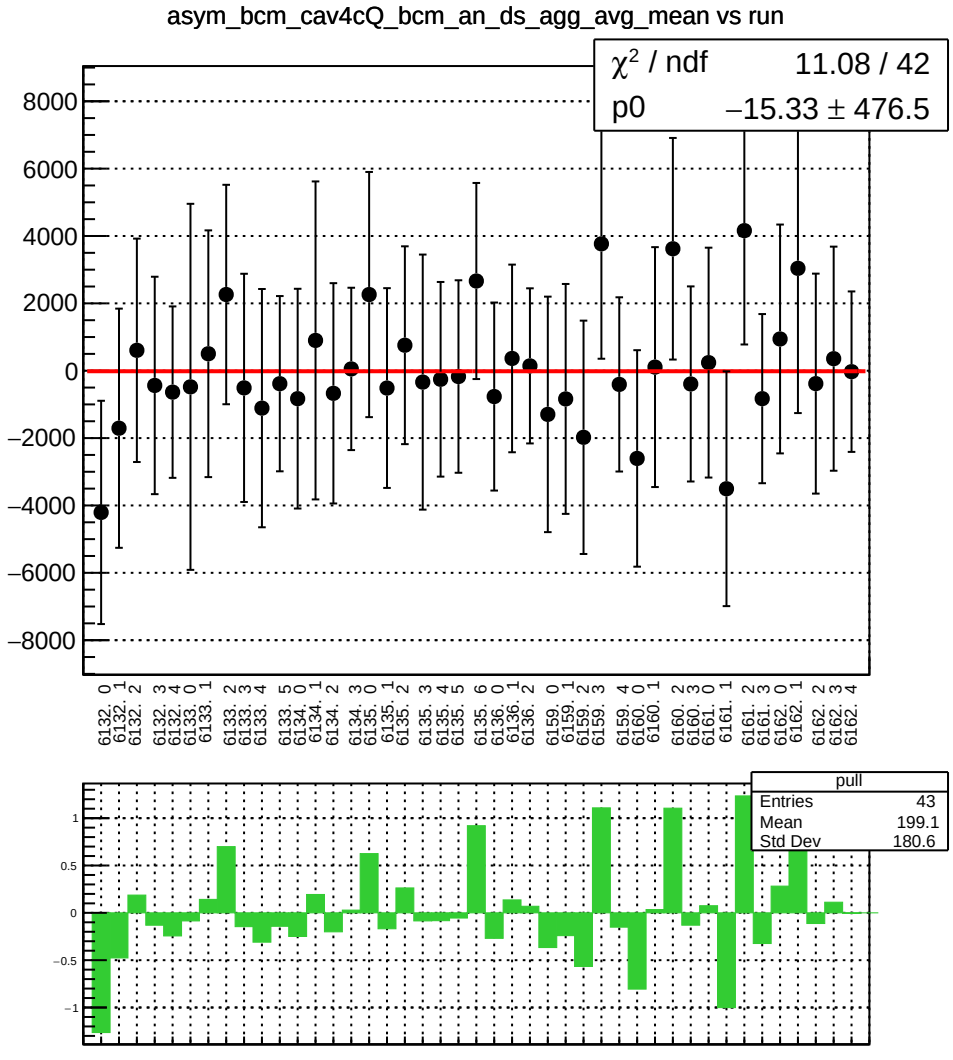

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 10.71 / 42
p0 −67.65 ± 477.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 228.6
Std Dev 210.3
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.006088
Std Dev 0.4991
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

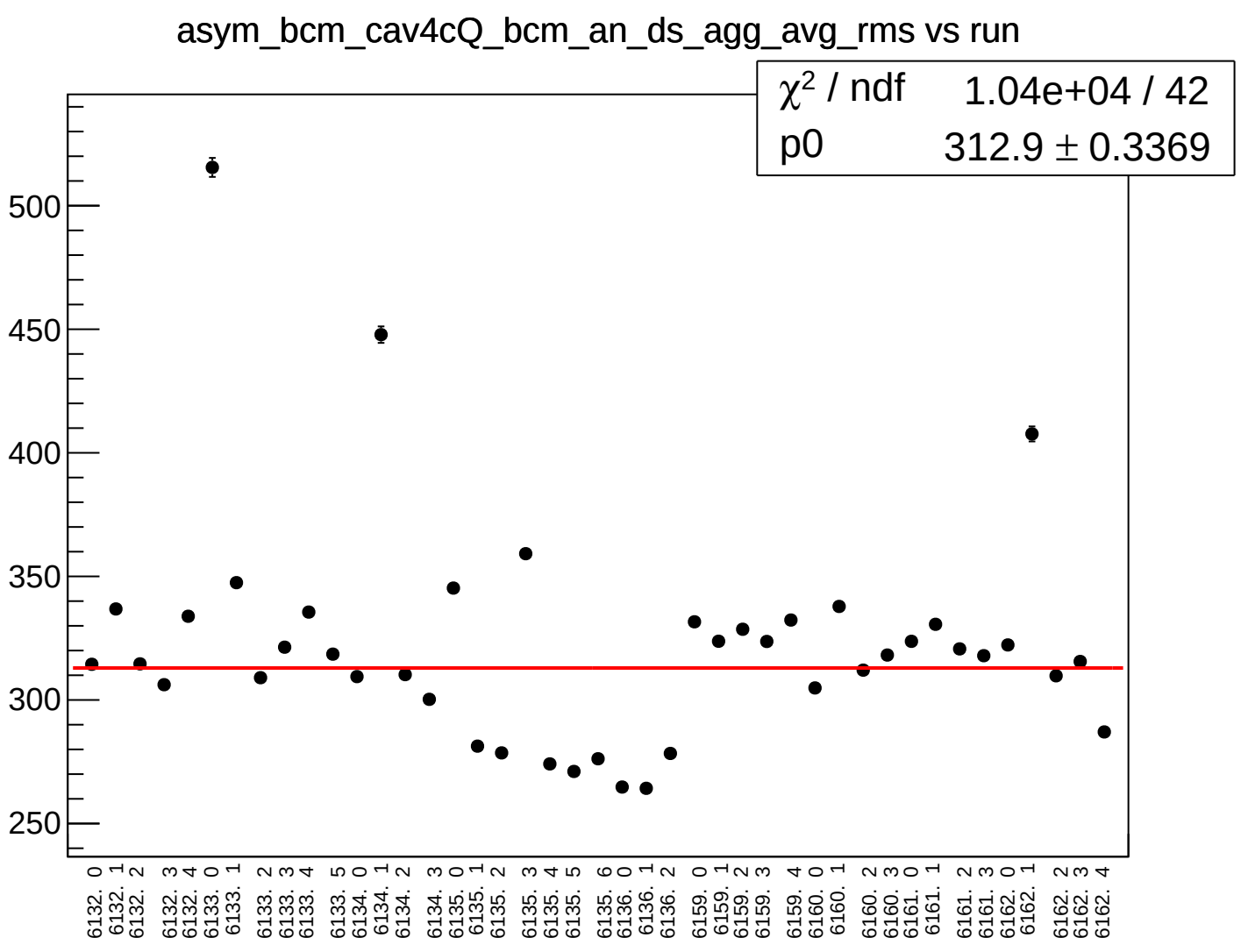

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.043e+04 / 42
p0 313.6 ± 0.3377
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

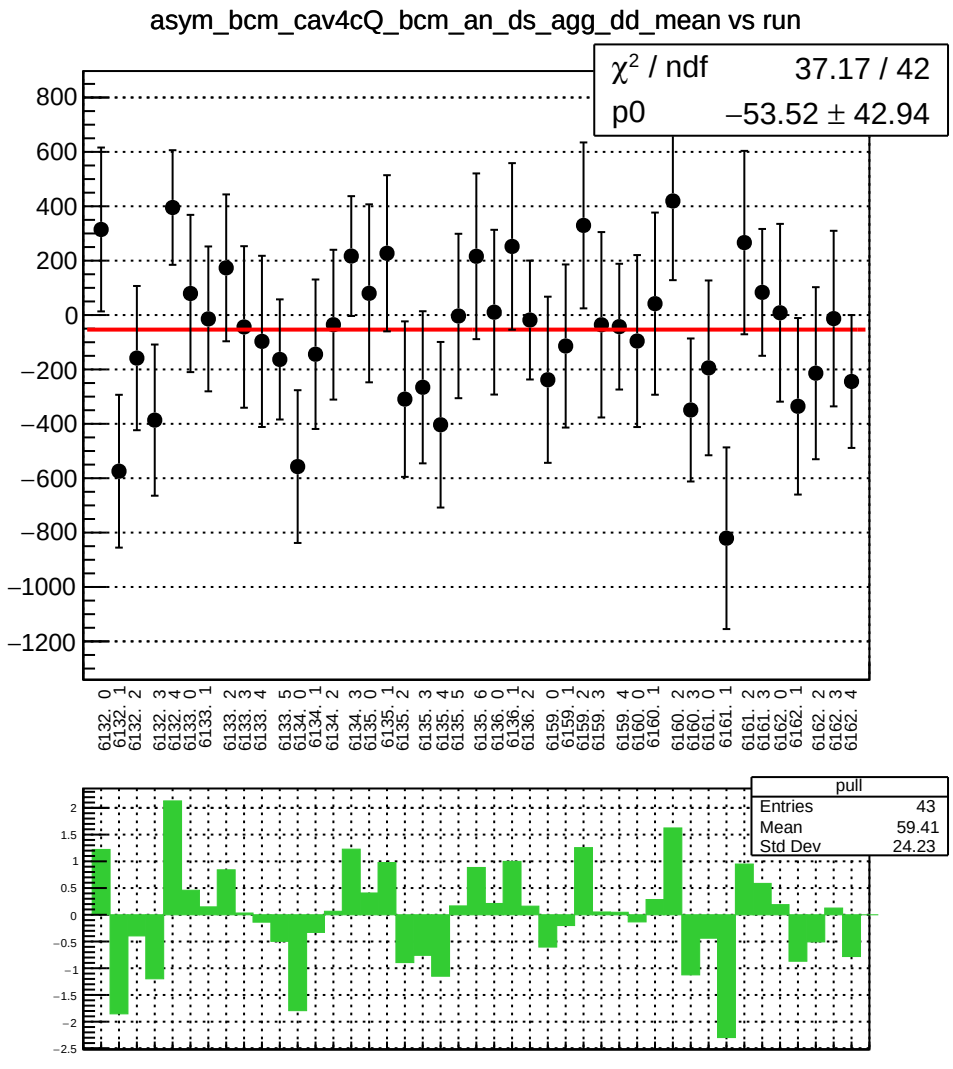

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 44.04 / 42
p0 −1.663 ± 42.04
pull
Entries 43
Mean 40.27
Std Dev 43.5

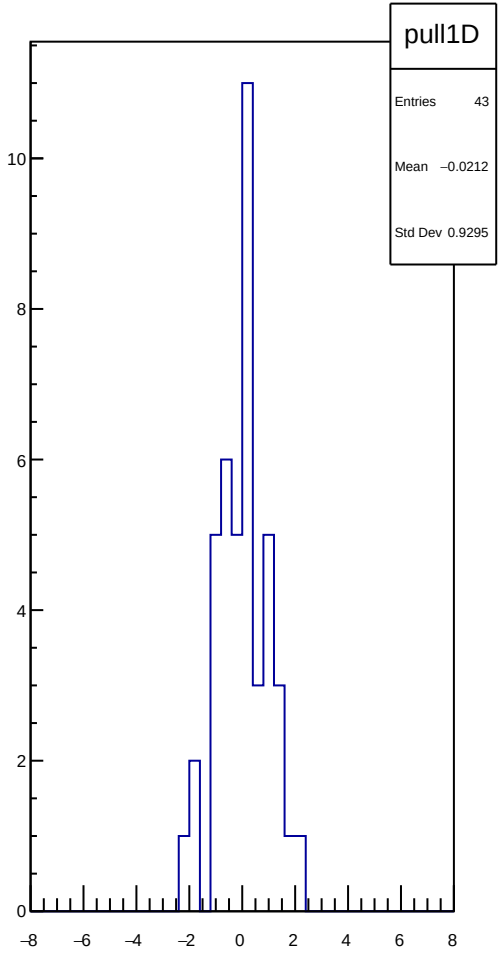

pull1D
Entries 43
Mean −0.006495
Std Dev 1.012

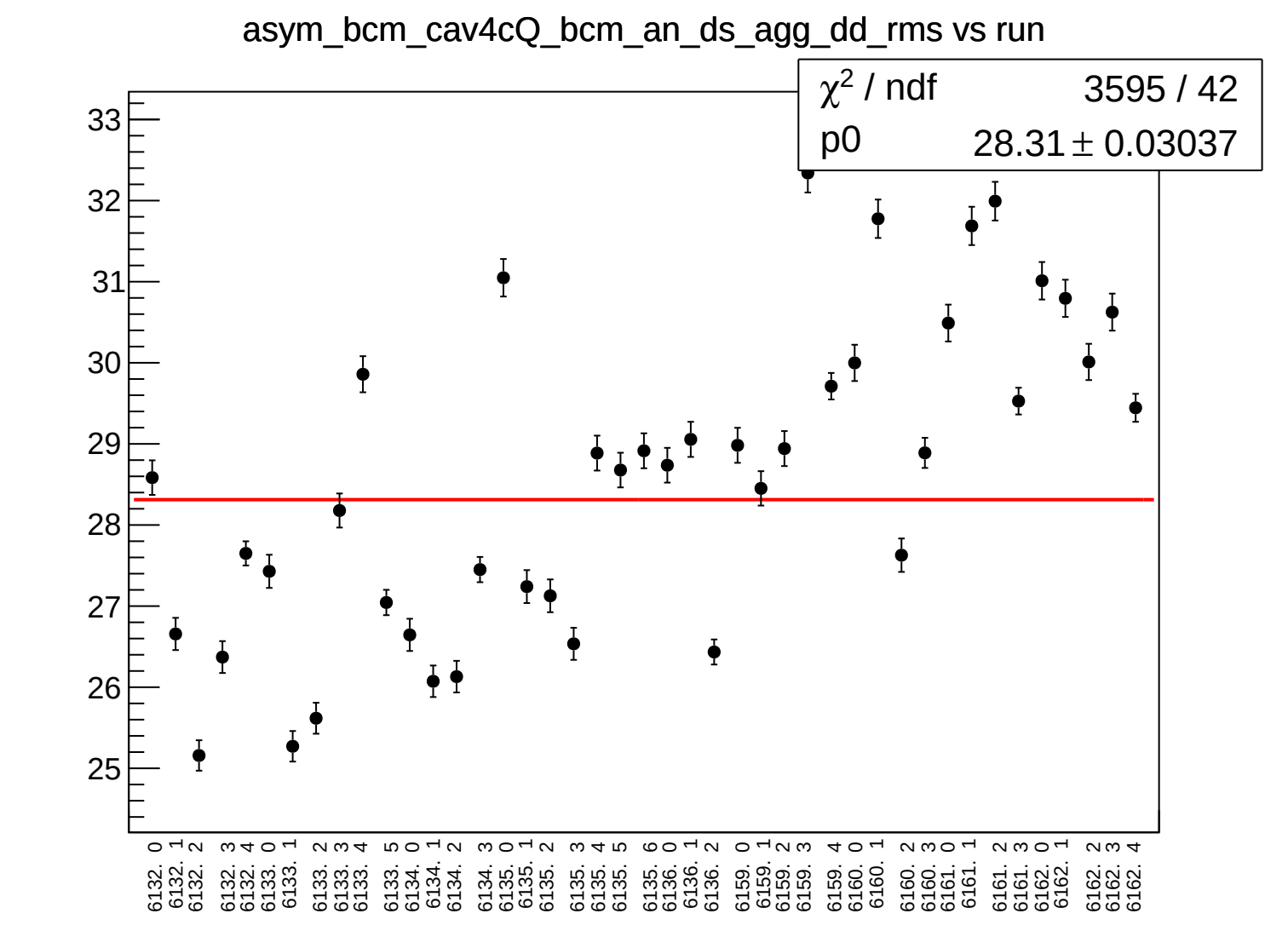

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3296 / 42
p0 27.72 ± 0.02972
32
31
30
29
28
27
26
25
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 11.08 / 42
p0 −15.33 ± 476.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 199.1
Std Dev 180.6
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.007409
Std Dev 0.5076
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.04e+04 / 42
p0 312.9 ± 0.3369
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 37.17 / 42
p0 −53.52 ± 42.94
pull
Entries 43
Mean 59.41
Std Dev 24.23


pull1D
Entries 43
Mean −0.0212
Std Dev 0.9295


asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3595 / 42
p0 28.31 ± 0.03037
33
32
31
30
29
28
27
26
25
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
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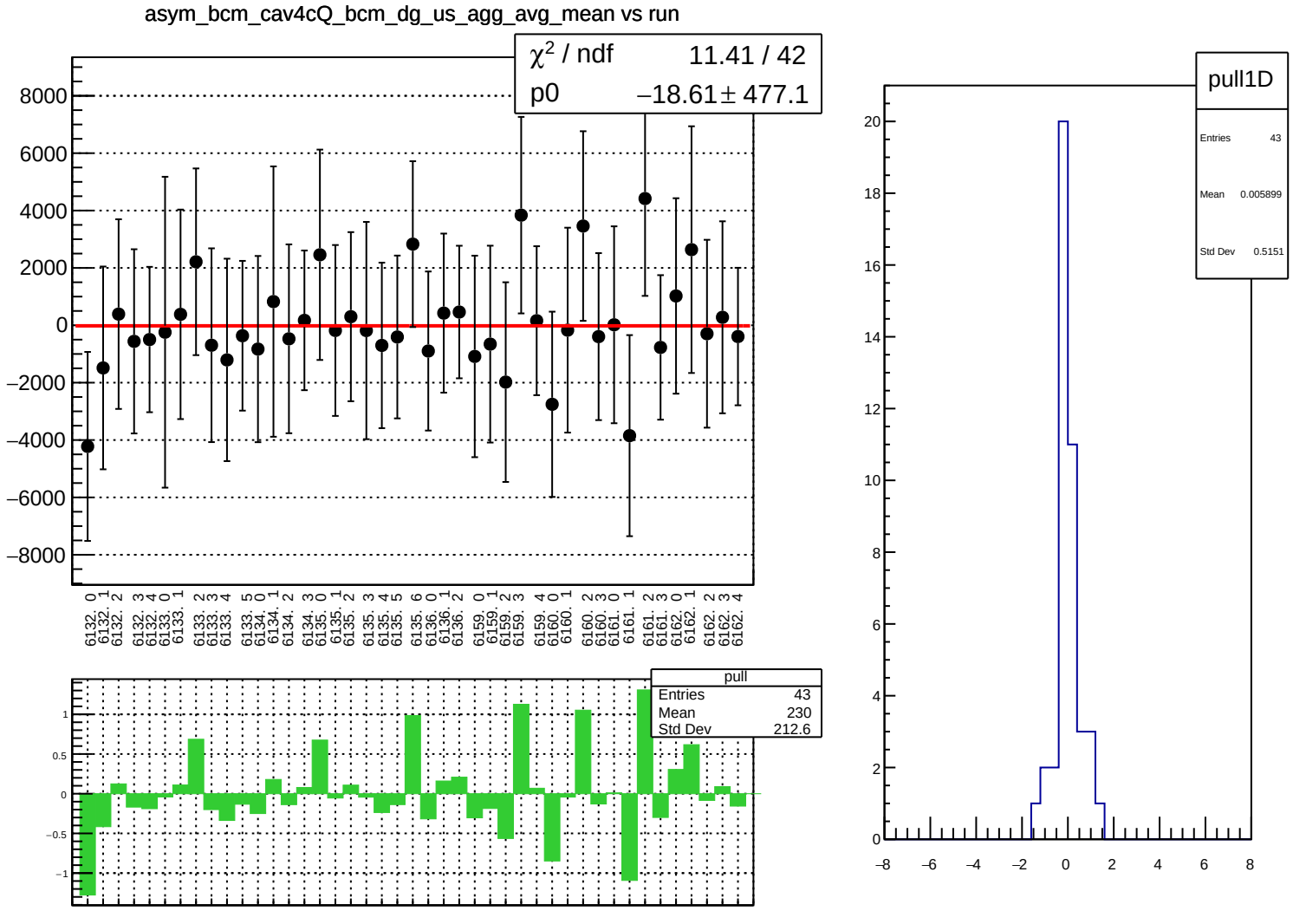
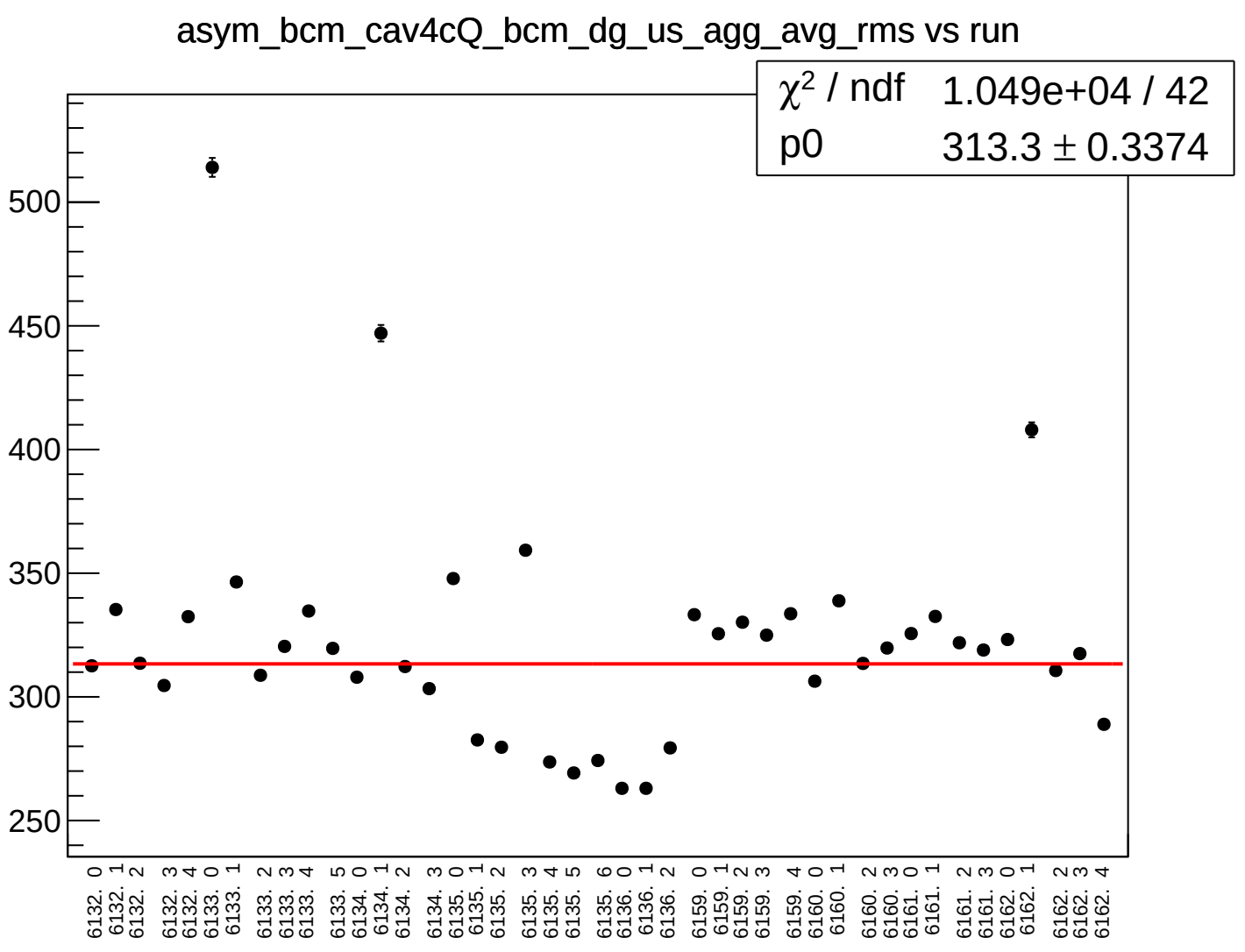
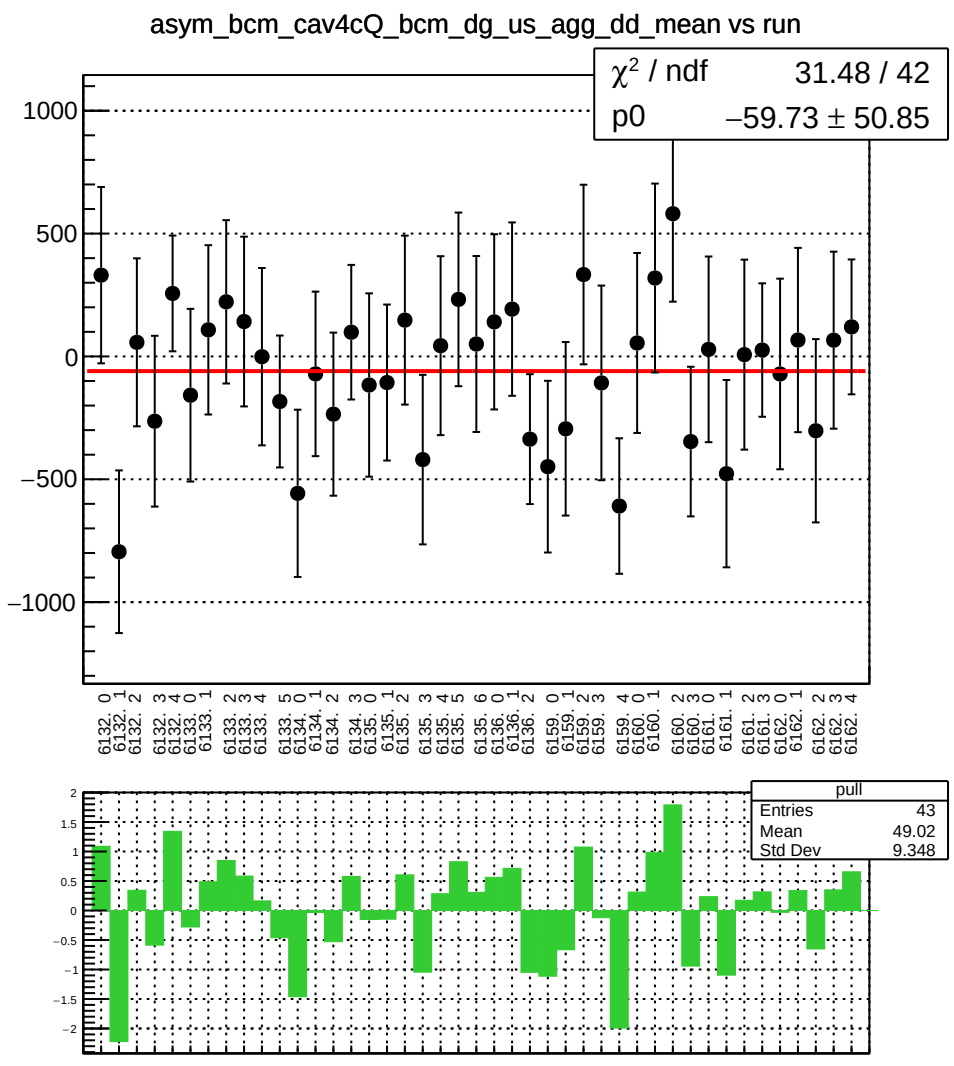
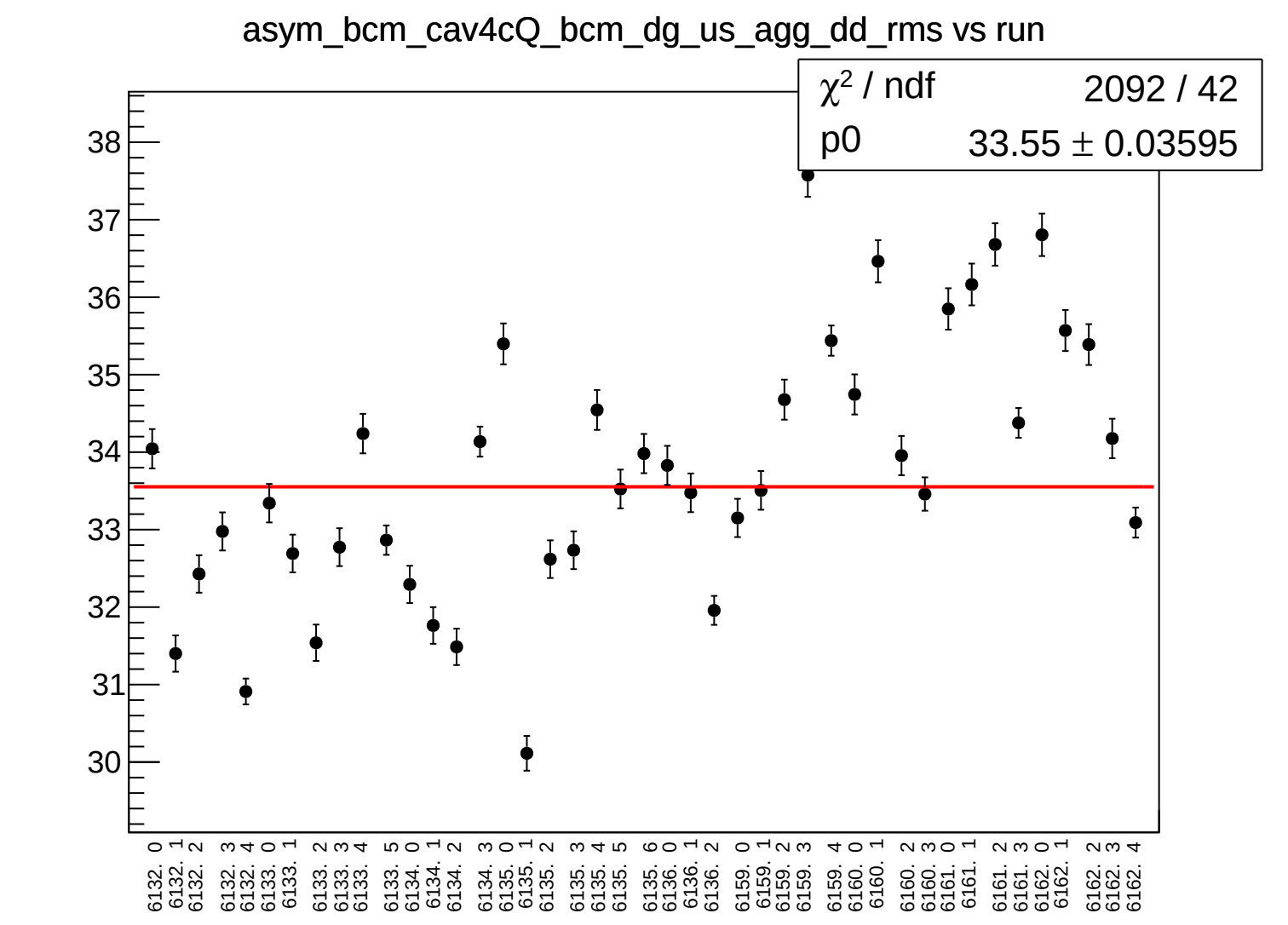
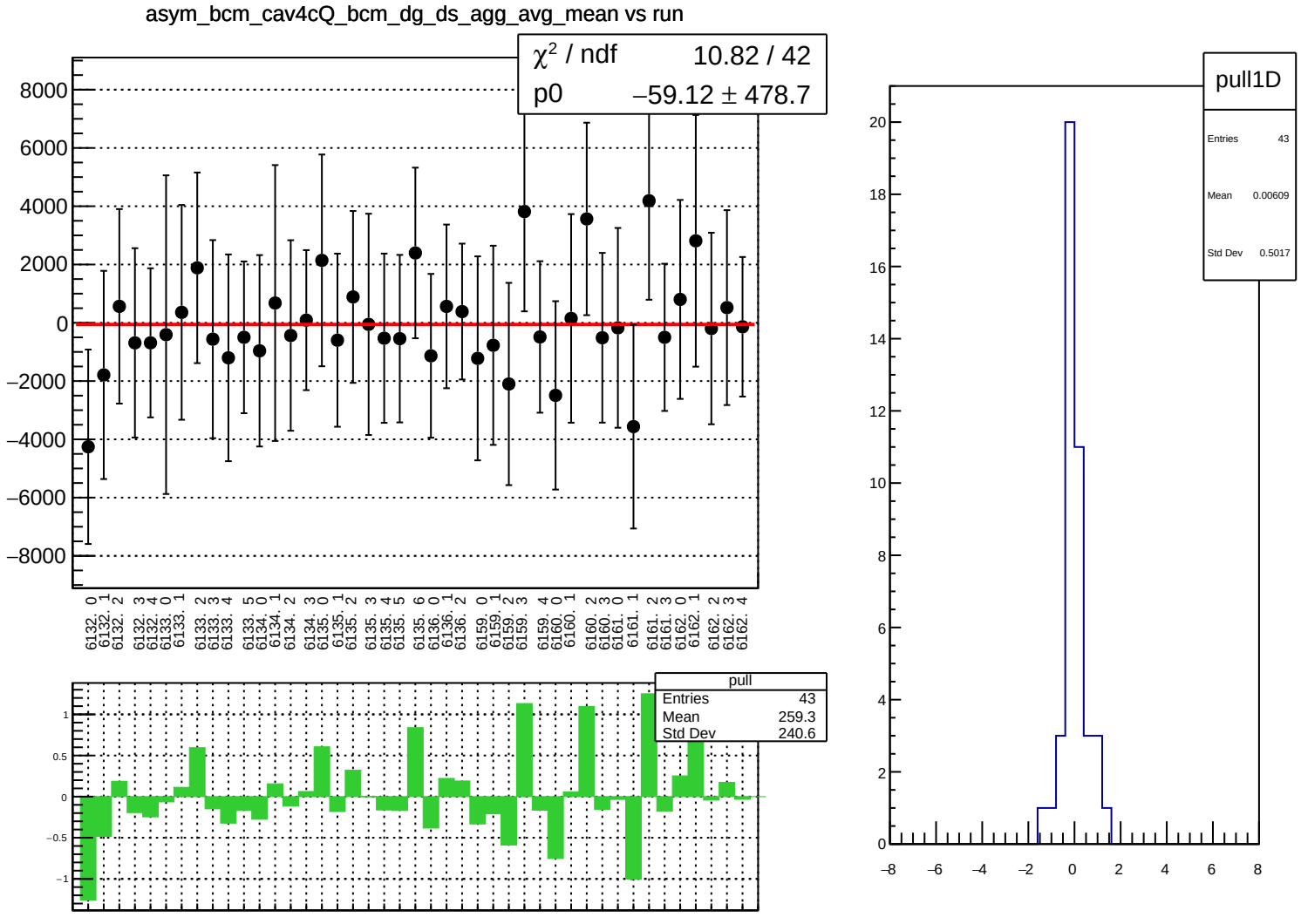
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

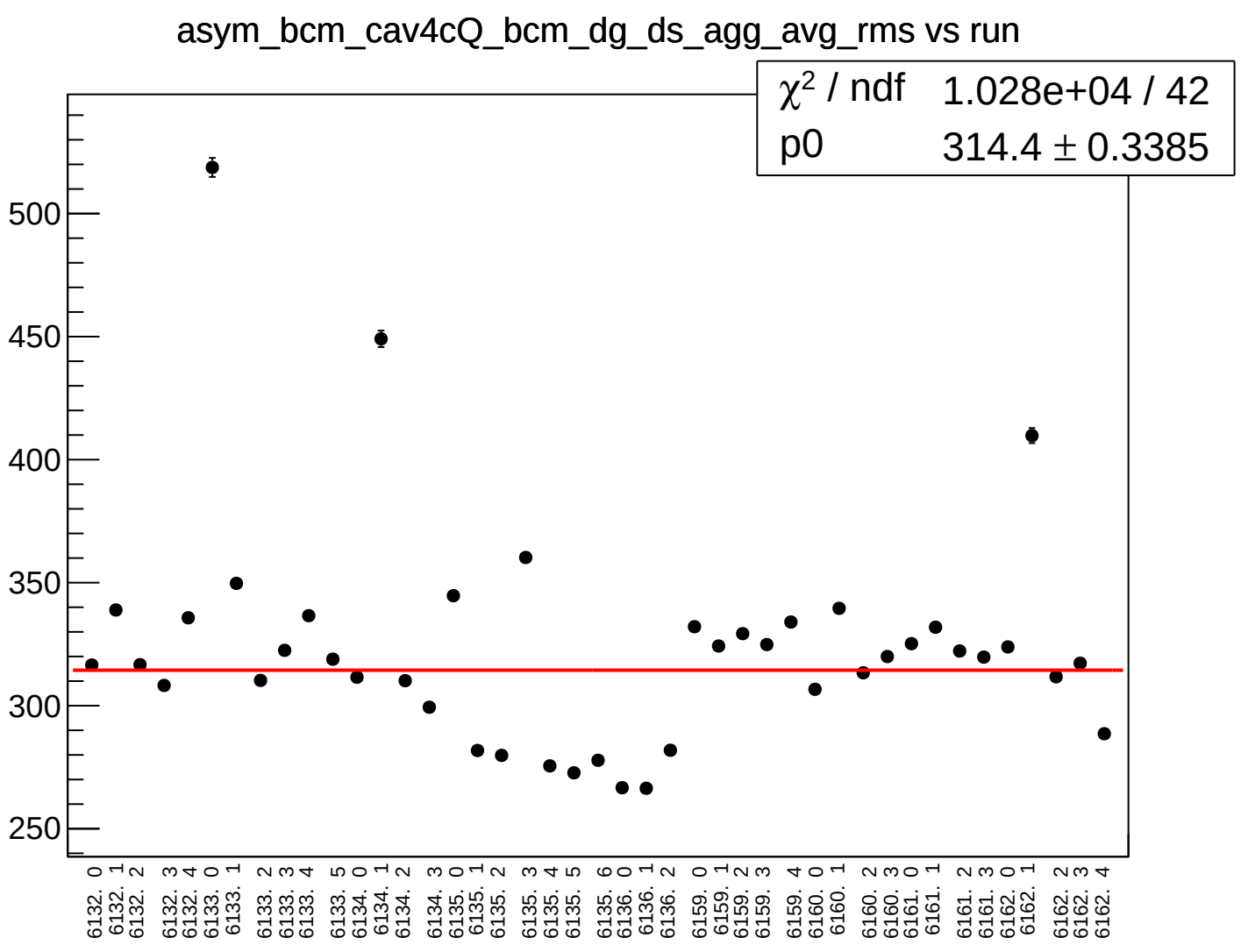

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 11.41 / 42
p0 −18.61 ± 477.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 230
Std Dev 212.6
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.005899
Std Dev 0.5151
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

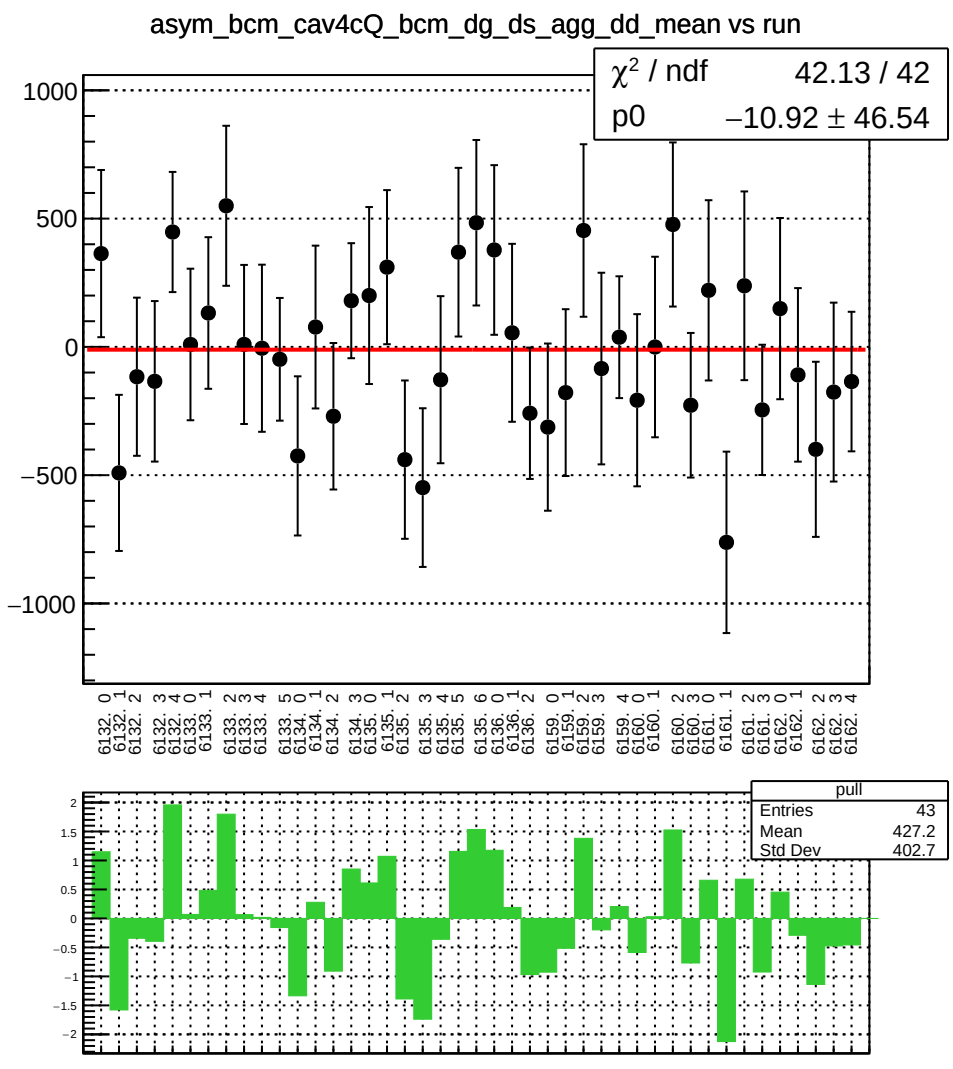

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1.049e+04 / 42
p0 313.3 ± 0.3374
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

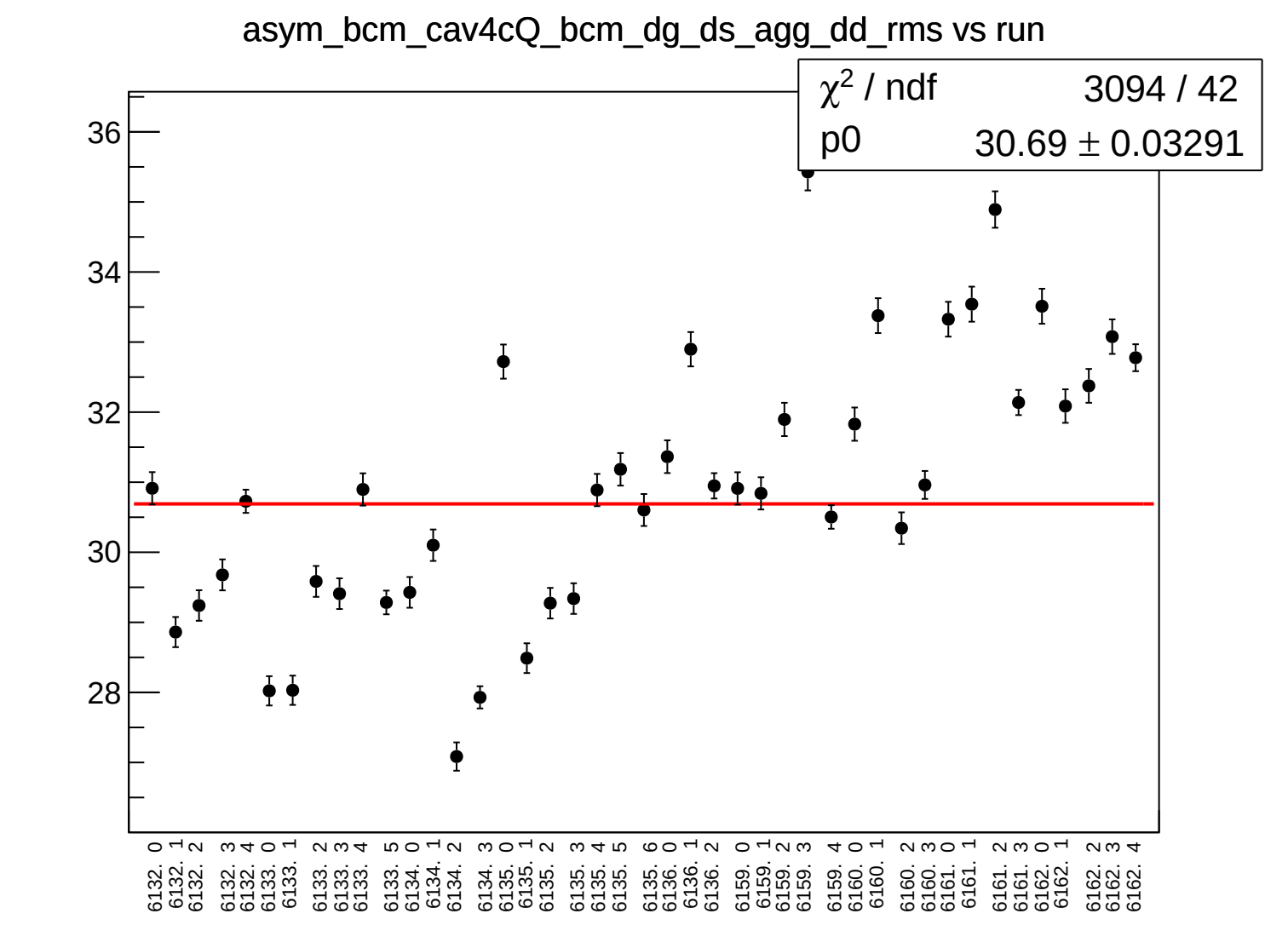

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 31.48 / 42
p0 −59.73 ± 50.85
1000
500
0
−500
−1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 49.02
Std Dev 9.348
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.009131
Std Dev 0.8555
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

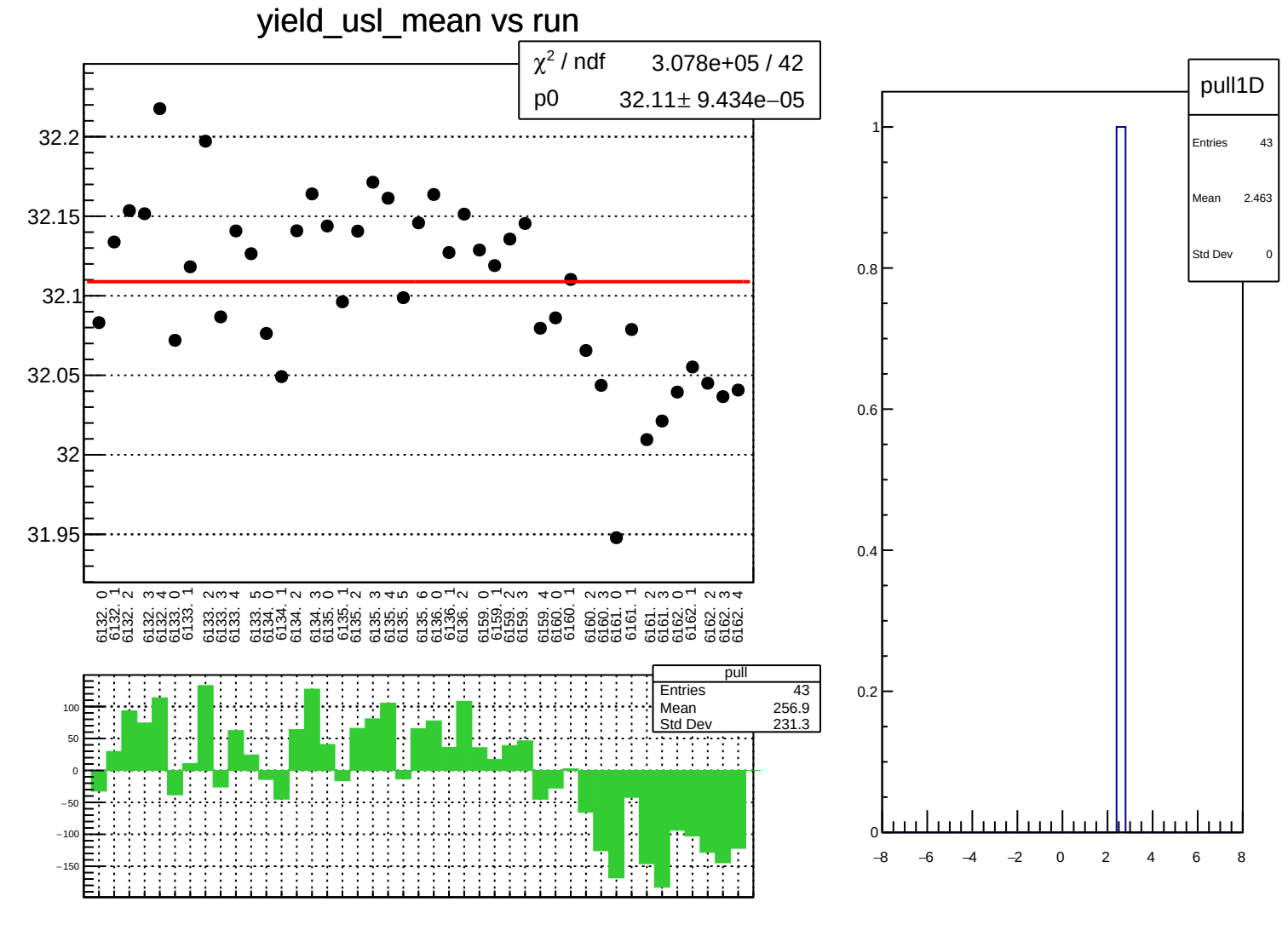

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2092 / 42
p0 33.55 ± 0.03595
38
37
36
35
34
33
32
31
30
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

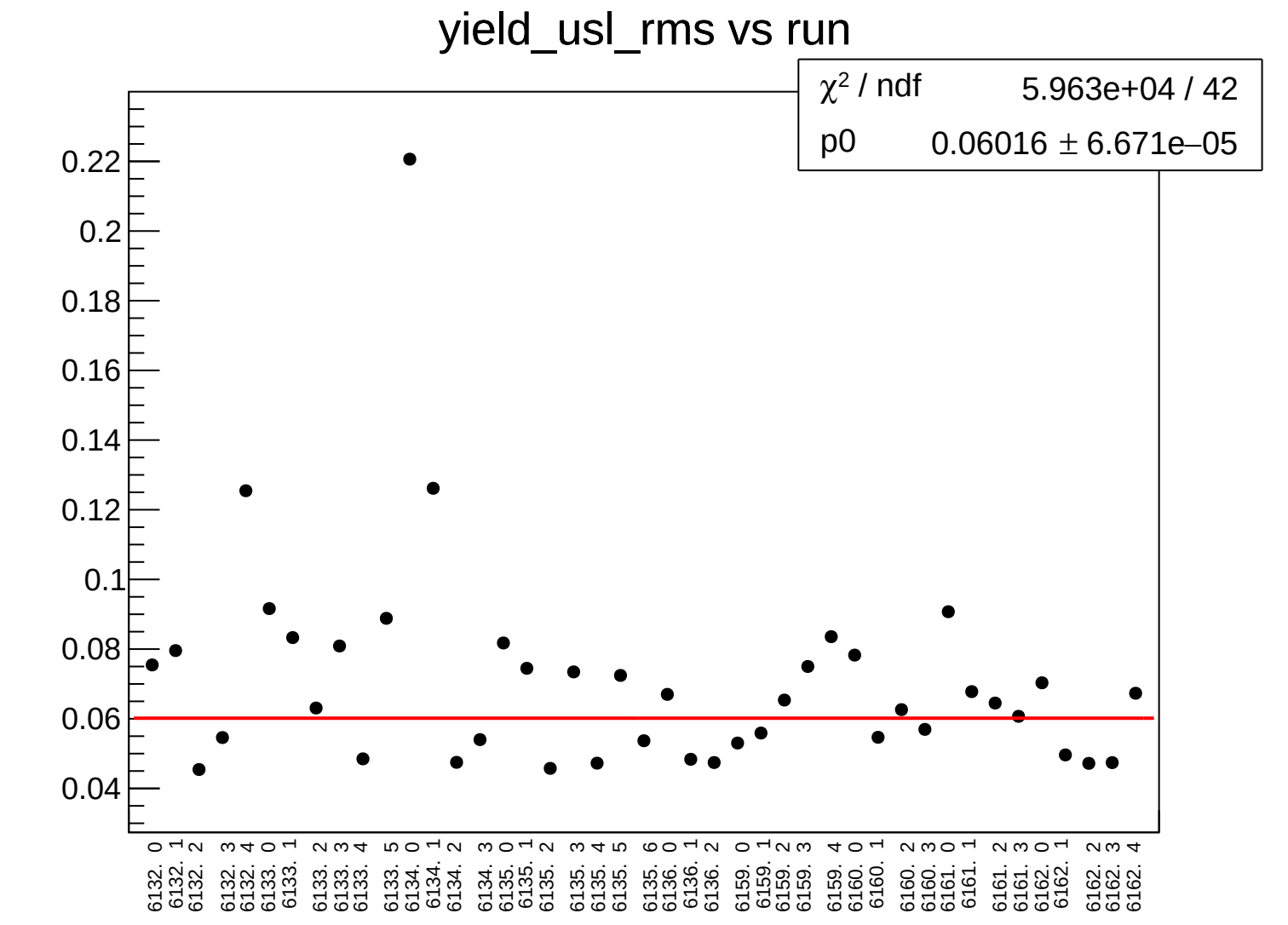

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 10.82 / 42
p0 −59.12 ± 478.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 259.3
Std Dev 240.6
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.00609
Std Dev 0.5017
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

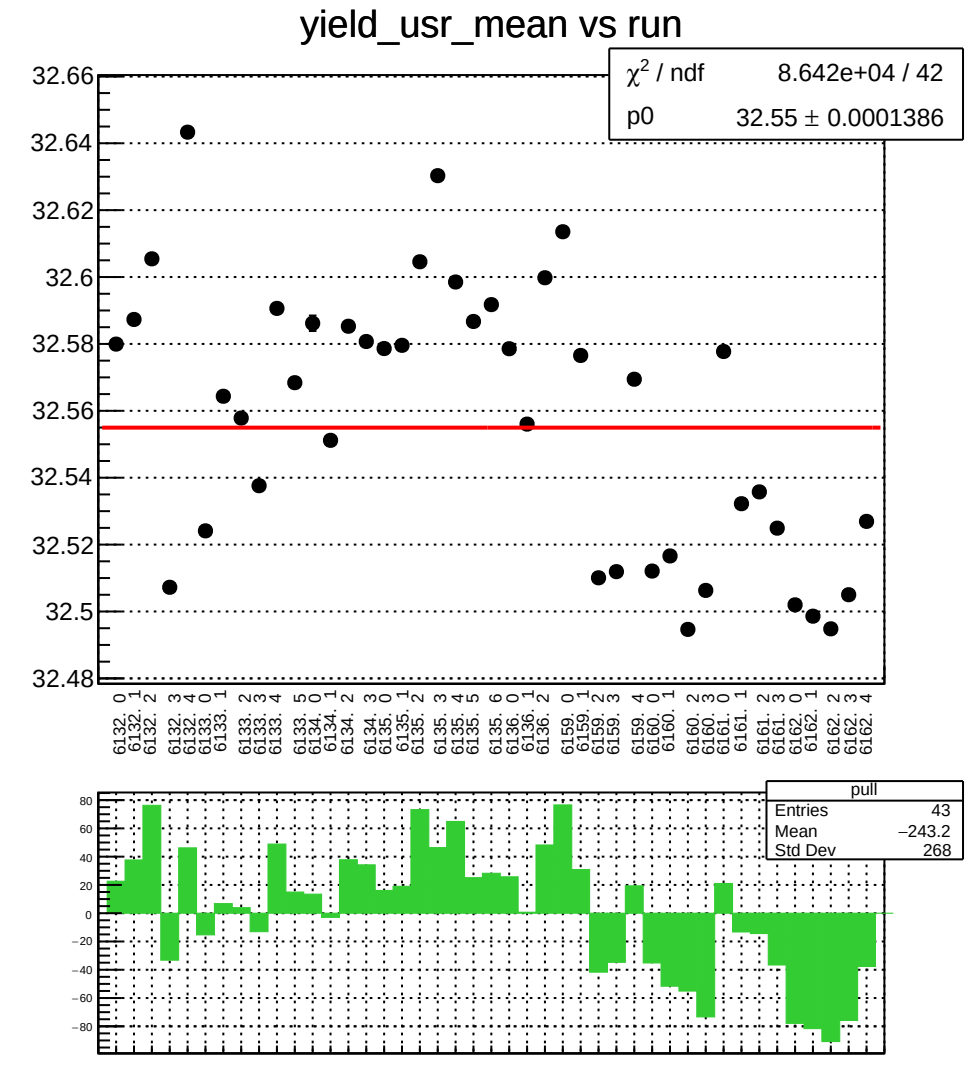

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.028e+04 / 42
p0 314.4 ± 0.3385
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

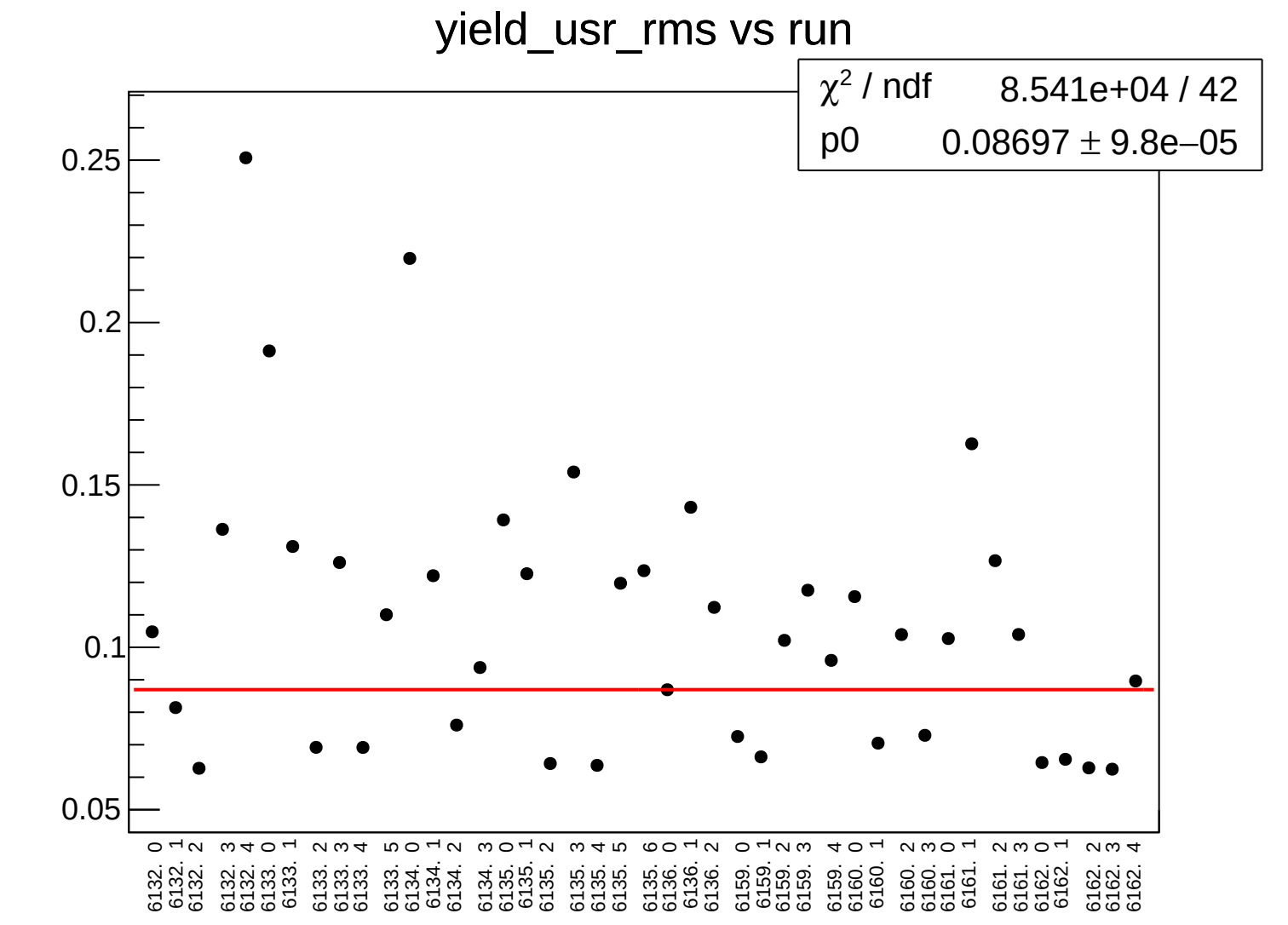

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 42.13 / 42
p0 −10.92 ± 46.54
1000
500
0
−500
−1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 427.2
Std Dev 402.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.005286
Std Dev 0.9898
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

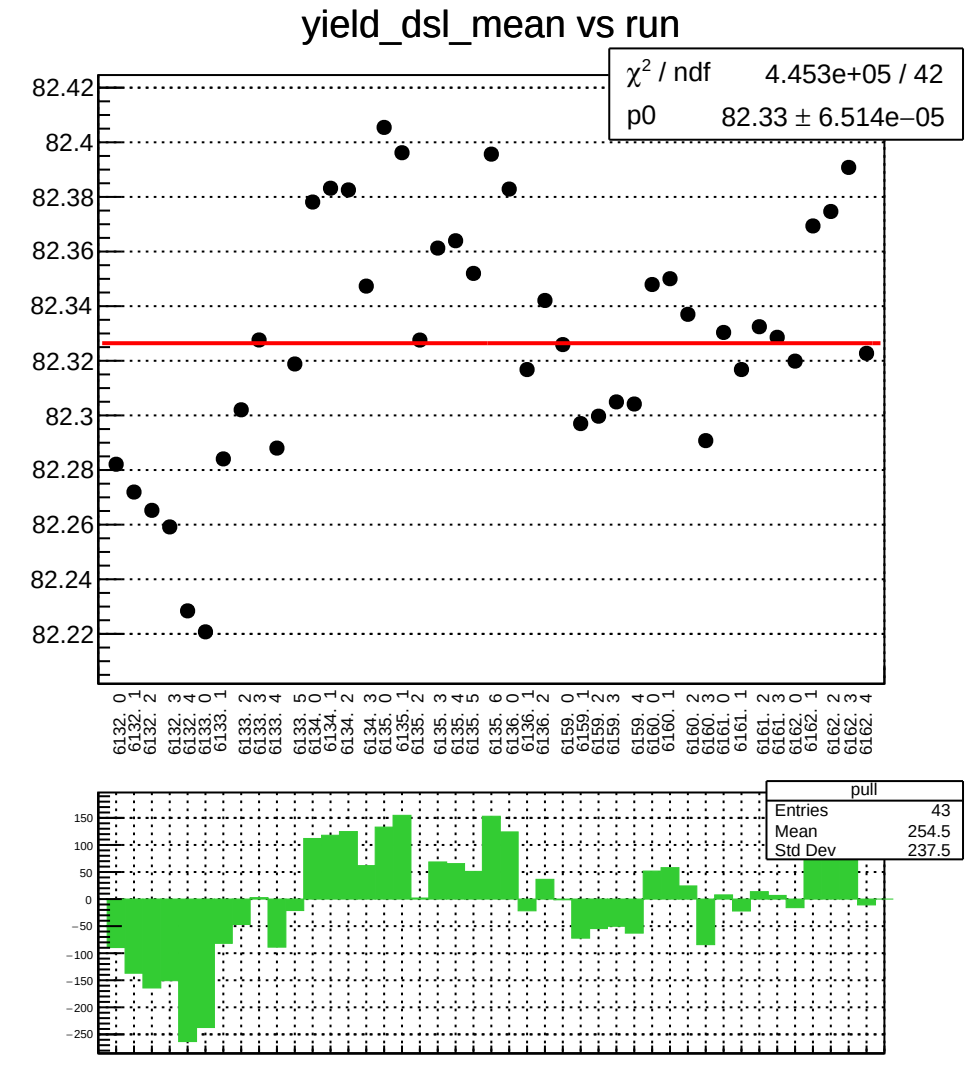

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3094 / 42
p0 30.69 ± 0.03291
36
34
32
30
28
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

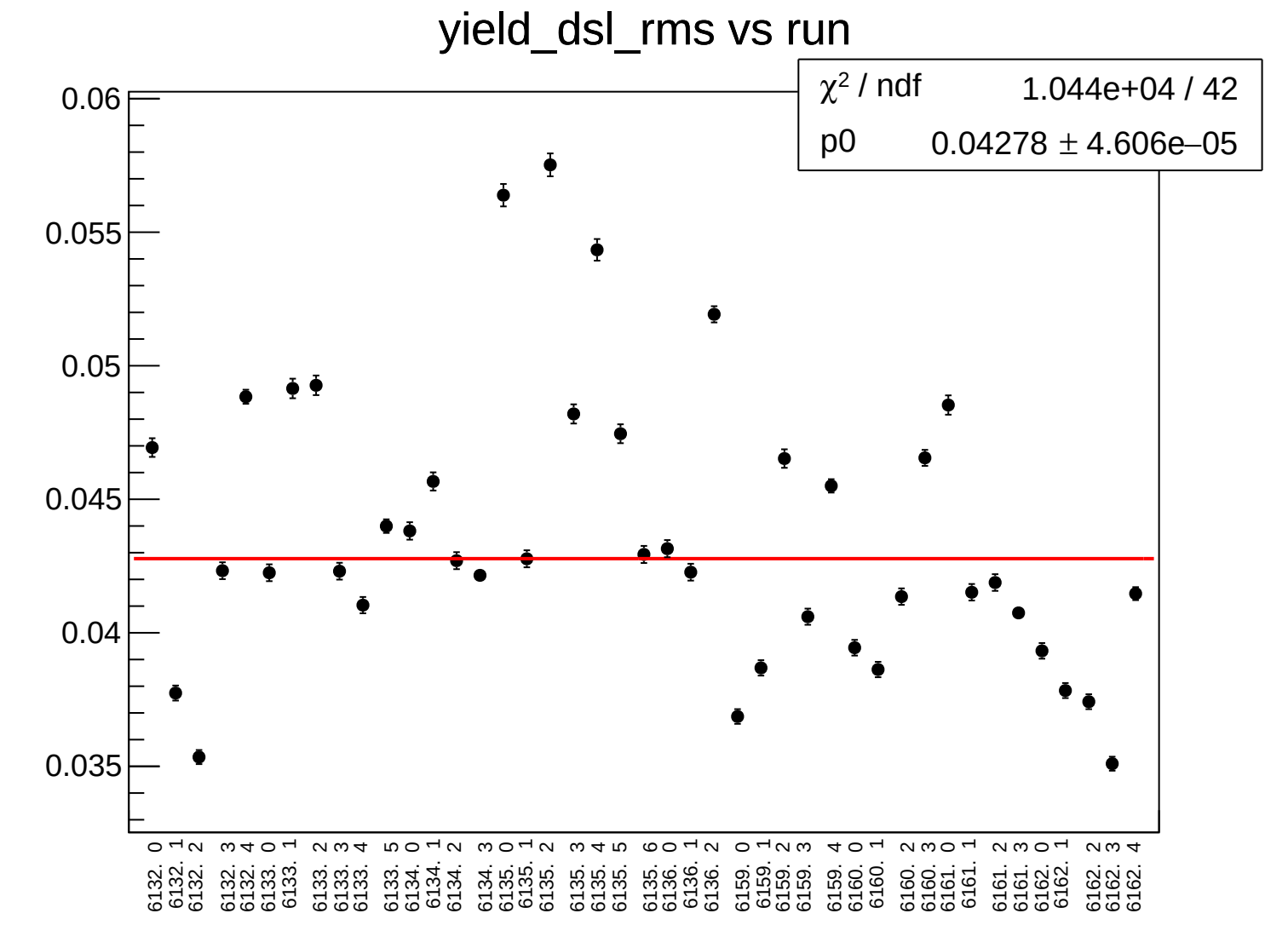

yield_usl_mean vs run
χ² / ndf 3.078e+05 / 42
p0 32.11± 9.434e−05
32.2
32.15
32.1
32.05
32
31.95
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 256.9
Std Dev 231.3
100
50
0
−50
−100
−150
pull1D
Entries 43
Mean 2.463
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 5.963e+04 / 42
p0 0.06016 ± 6.671e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_usr_mean vs run
χ² / ndf 8.642e+04 / 42
p0 32.55 ± 0.0001386
32.66
32.64
32.62
32.6
32.58
32.56
32.54
32.52
32.5
32.48
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −243.2
Std Dev 268
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 43
Mean 2.116
Std Dev 3.635
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 8.541e+04 / 42
p0 0.08697 ± 9.8e−05
0.25
0.2
0.15
0.1
0.05
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_dsl_mean vs run
χ² / ndf 4.453e+05 / 42
p0 82.33 ± 6.514e−05
82.42
82.4
82.38
82.36
82.34
82.32
82.3
82.28
82.26
82.24
82.22
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 254.5
Std Dev 237.5
150
100
50
0
−50
−100
−150
−200
−250
pull1D
Entries 43
Mean 3.539
Std Dev 3.296
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 1.044e+04 / 42
p0 0.04278 ± 4.606e–05
0.06
0.055
0.05
0.045
0.04
0.035
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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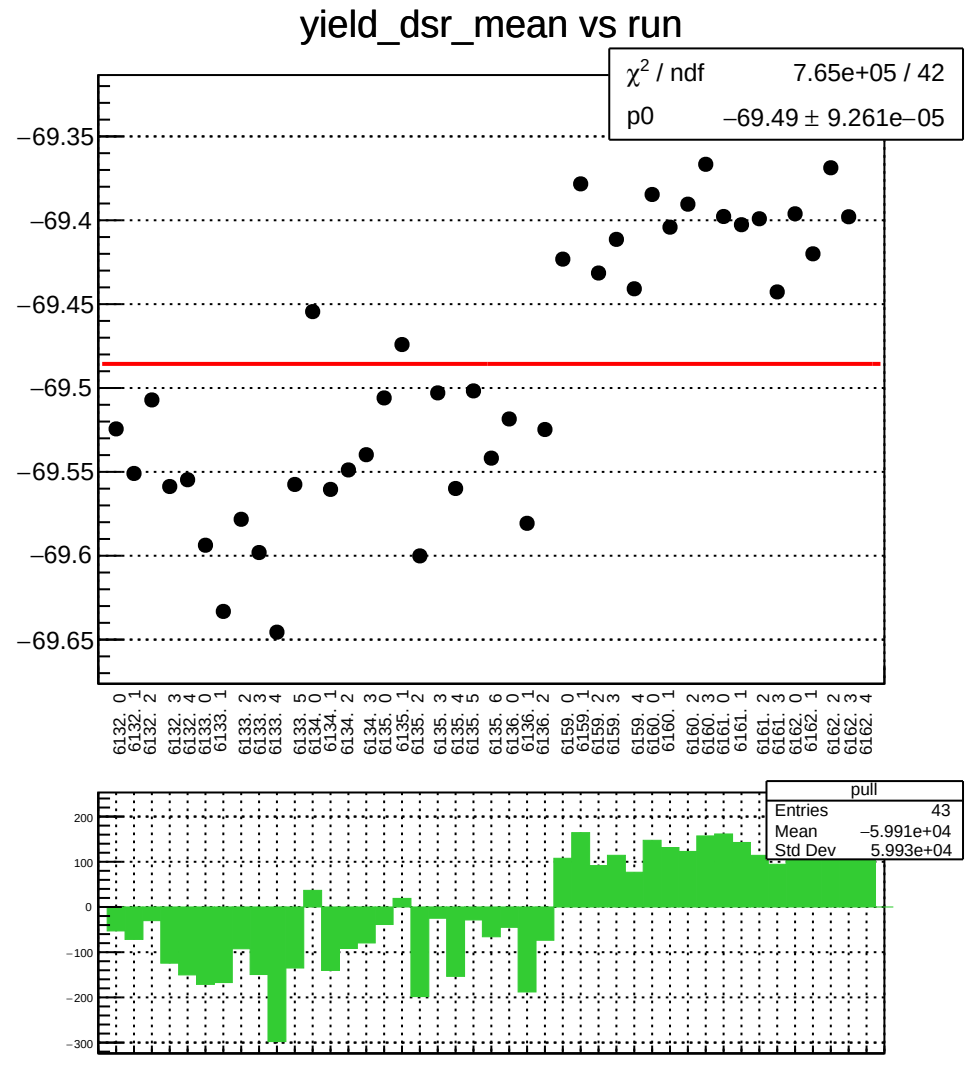
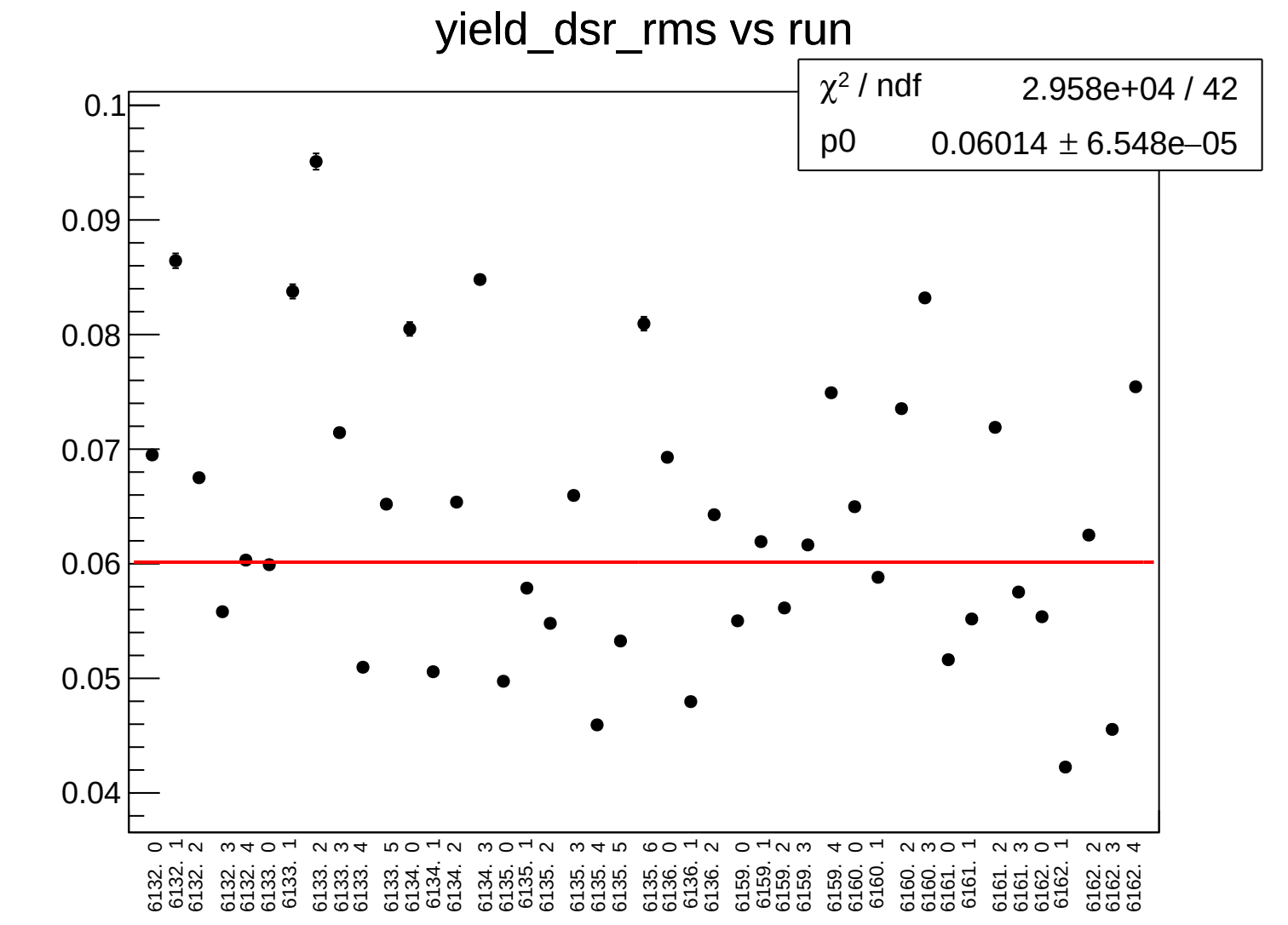
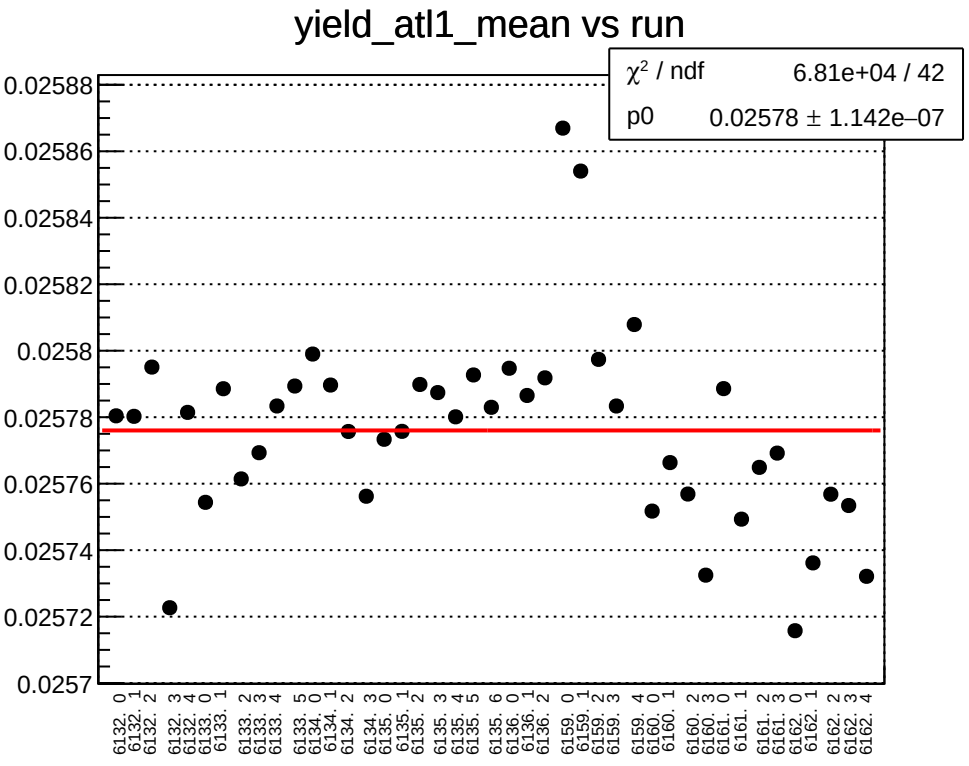
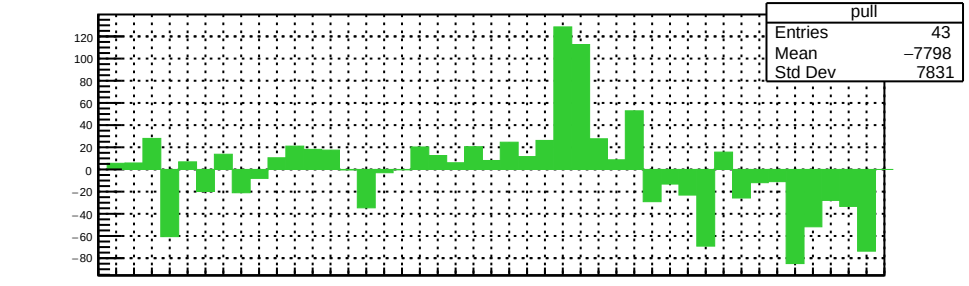
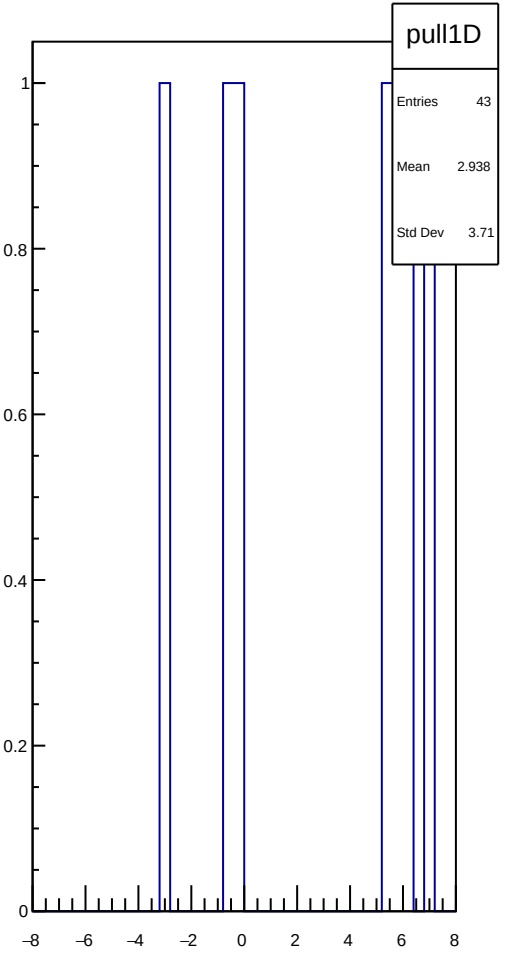
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

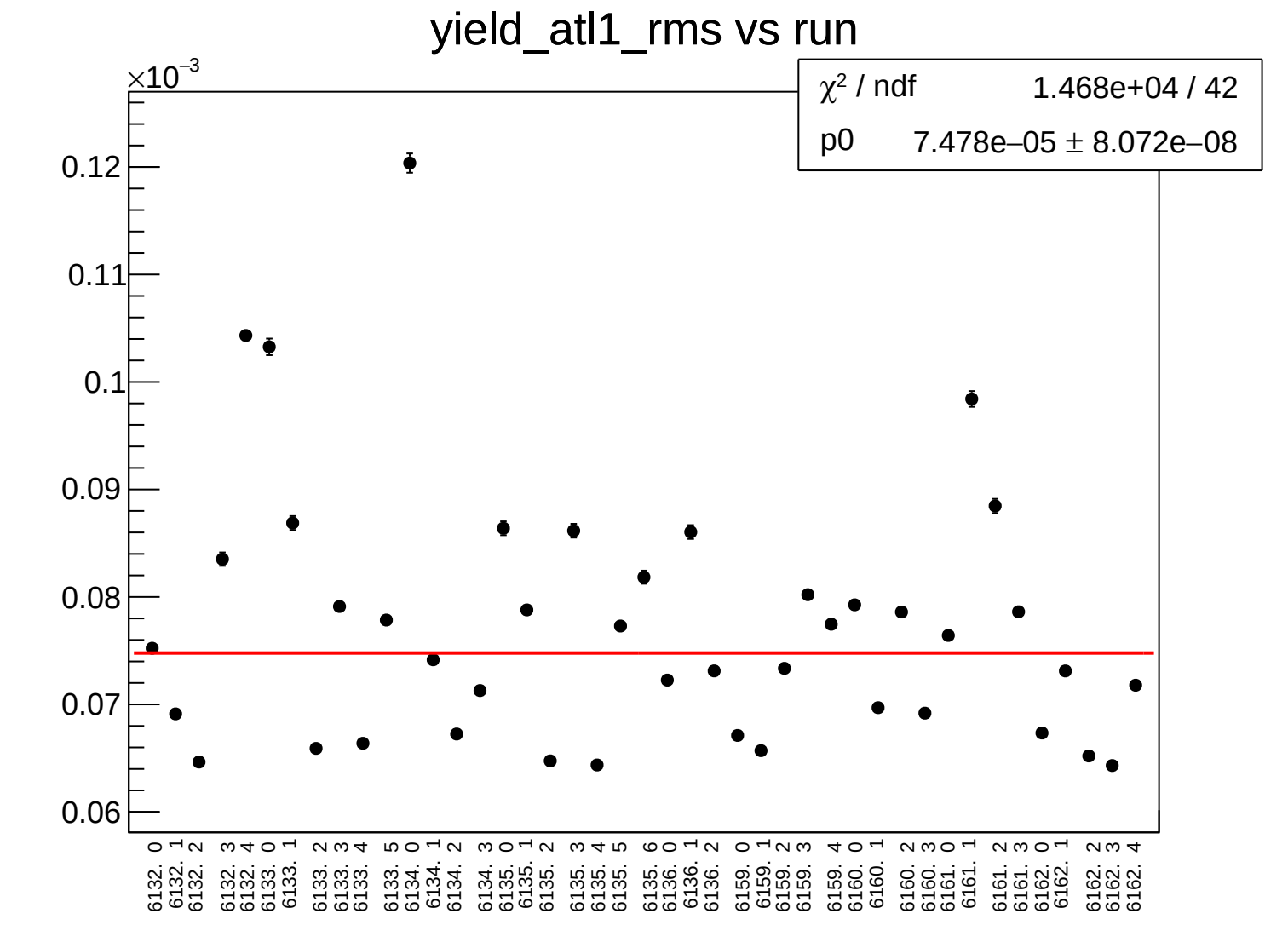

yield_dsr_mean vs run
χ² / ndf 7.65e+05 / 42
p0 −69.49 ± 9.261e−05
−69.35
−69.4
−69.45
−69.5
−69.55
−69.6
−69.65
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −5.991e+04
Std Dev 5.993e+04
200
100
0
−100
−200
−300
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

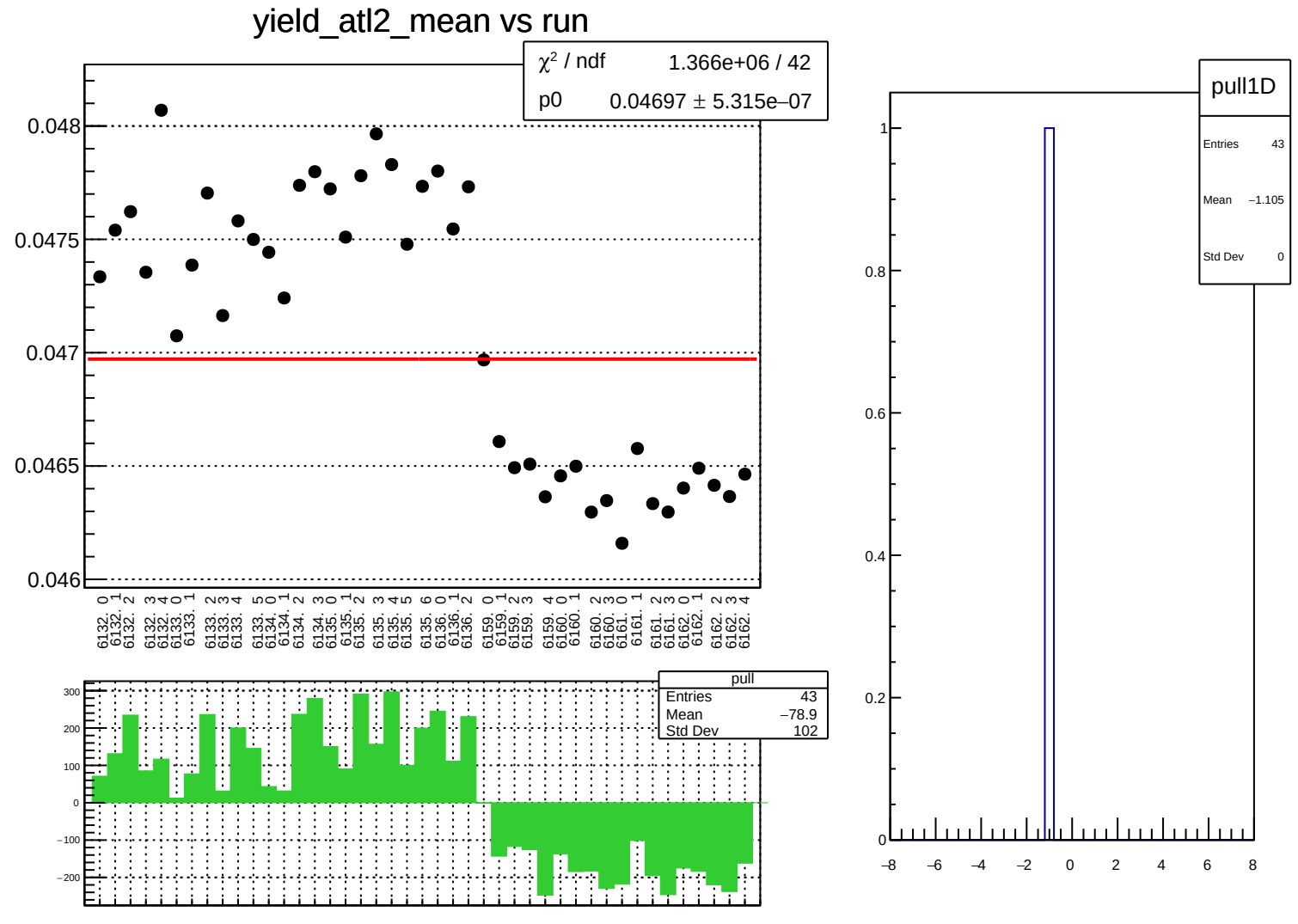

yield_dsr_rms vs run
χ² / ndf 2.958e+04 / 42
p0 0.06014 ± 6.548e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

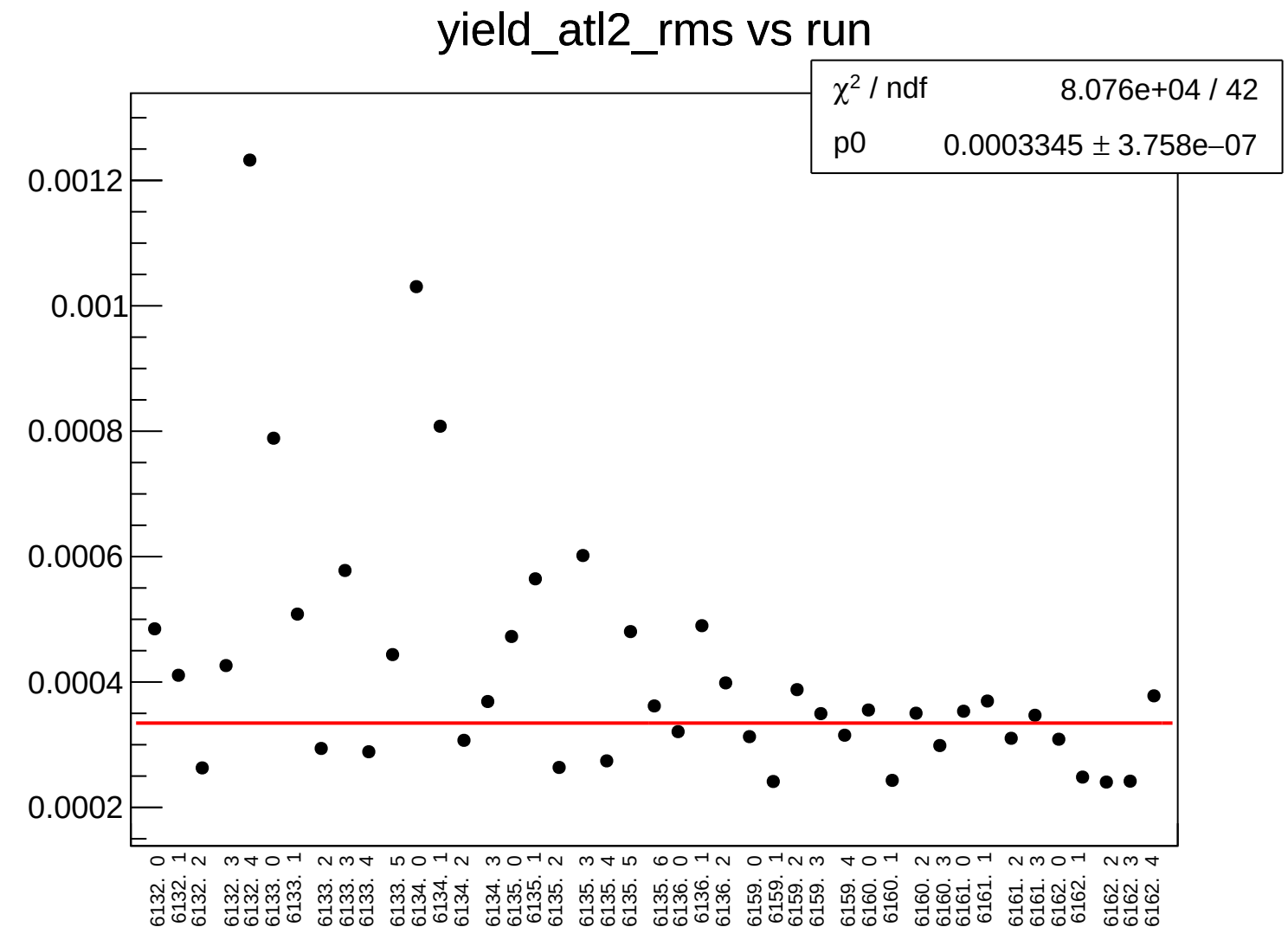

yield_atl1_mean vs run
χ² / ndf 6.81e+04 / 42
p0 0.02578 ± 1.142e−07
0.02588
0.02586
0.02584
0.02582
0.0258
0.02578
0.02576
0.02574
0.02572
0.0257
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

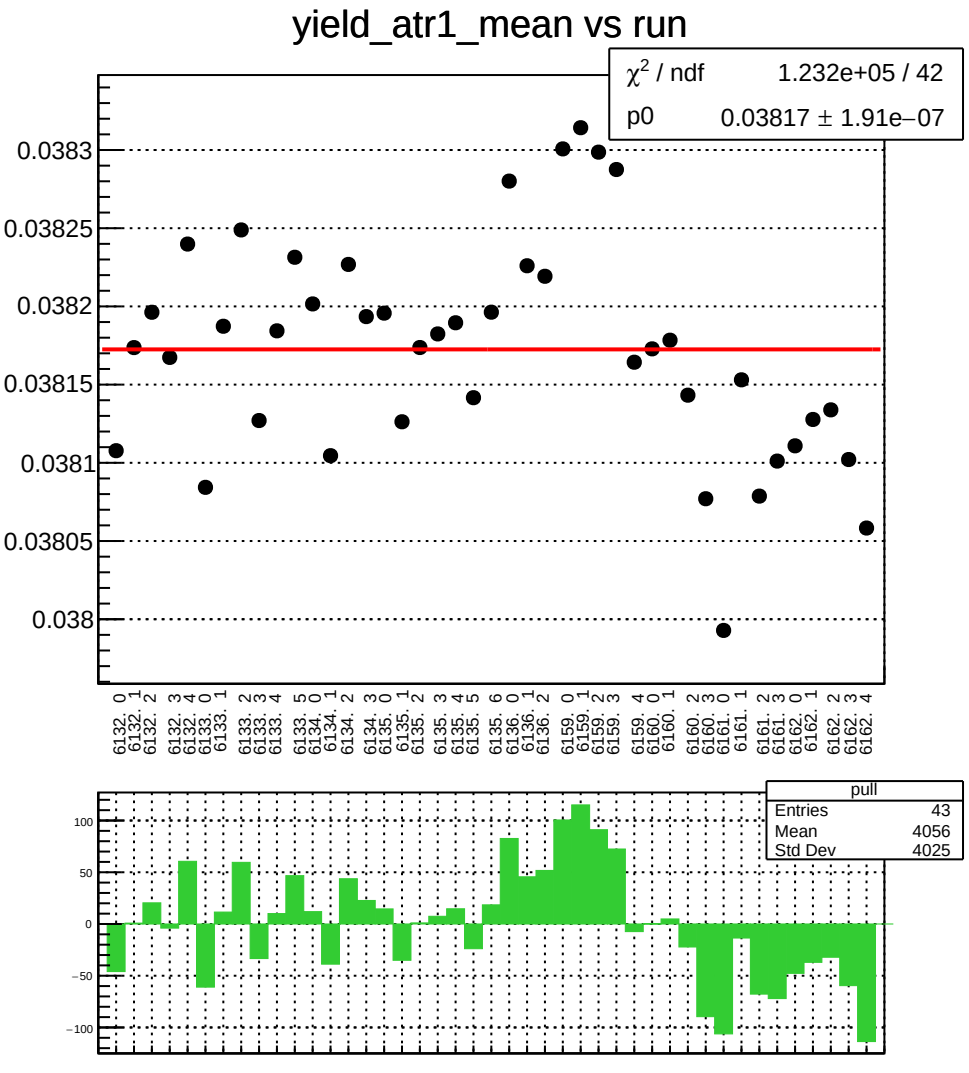

pull
Entries 43
Mean −7798
Std Dev 7831
120
100
80
60
40
20
0
−20
−40
−60
−80

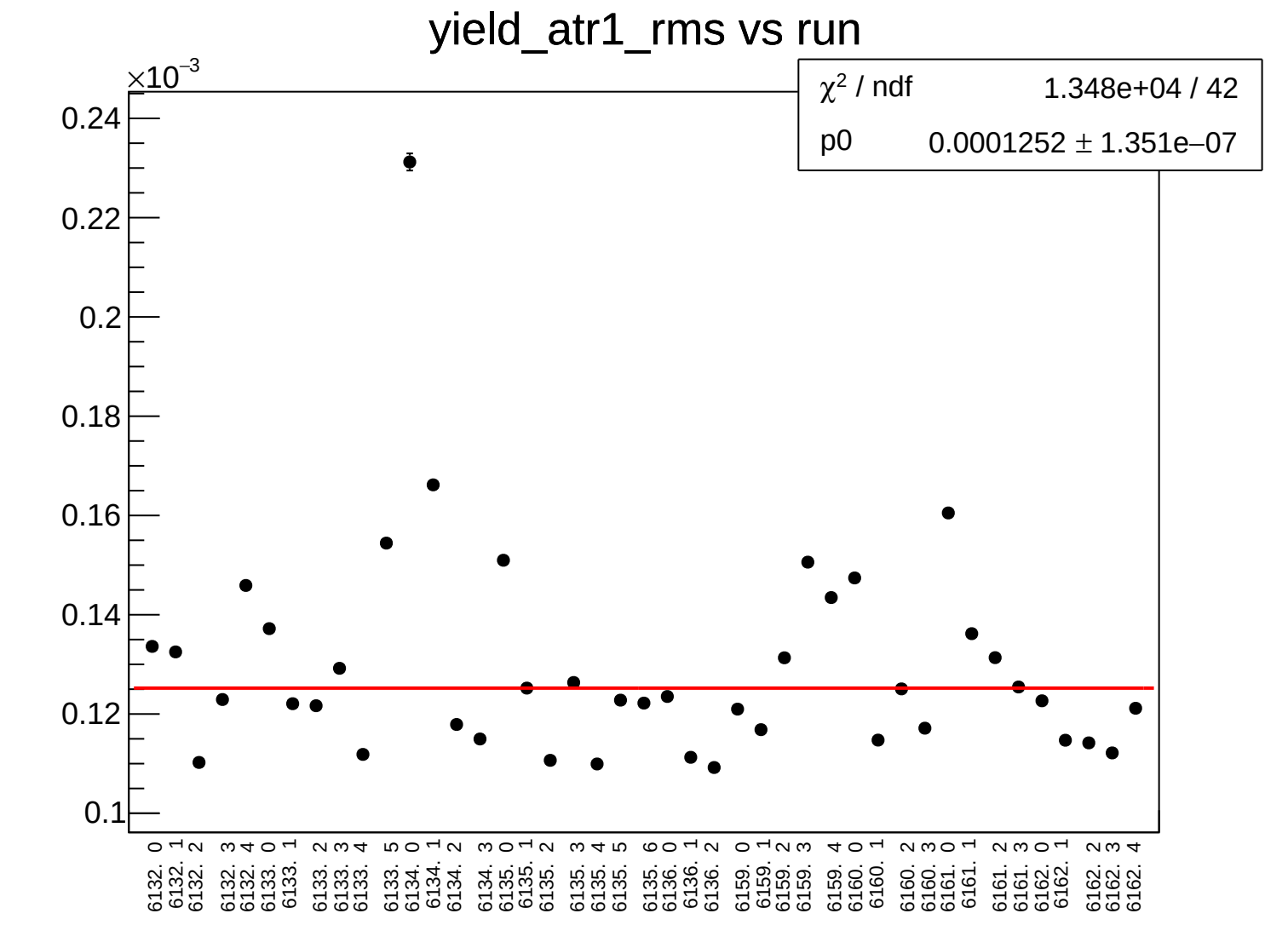

pull1D
Entries 43
Mean 2.938
Std Dev 3.71
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

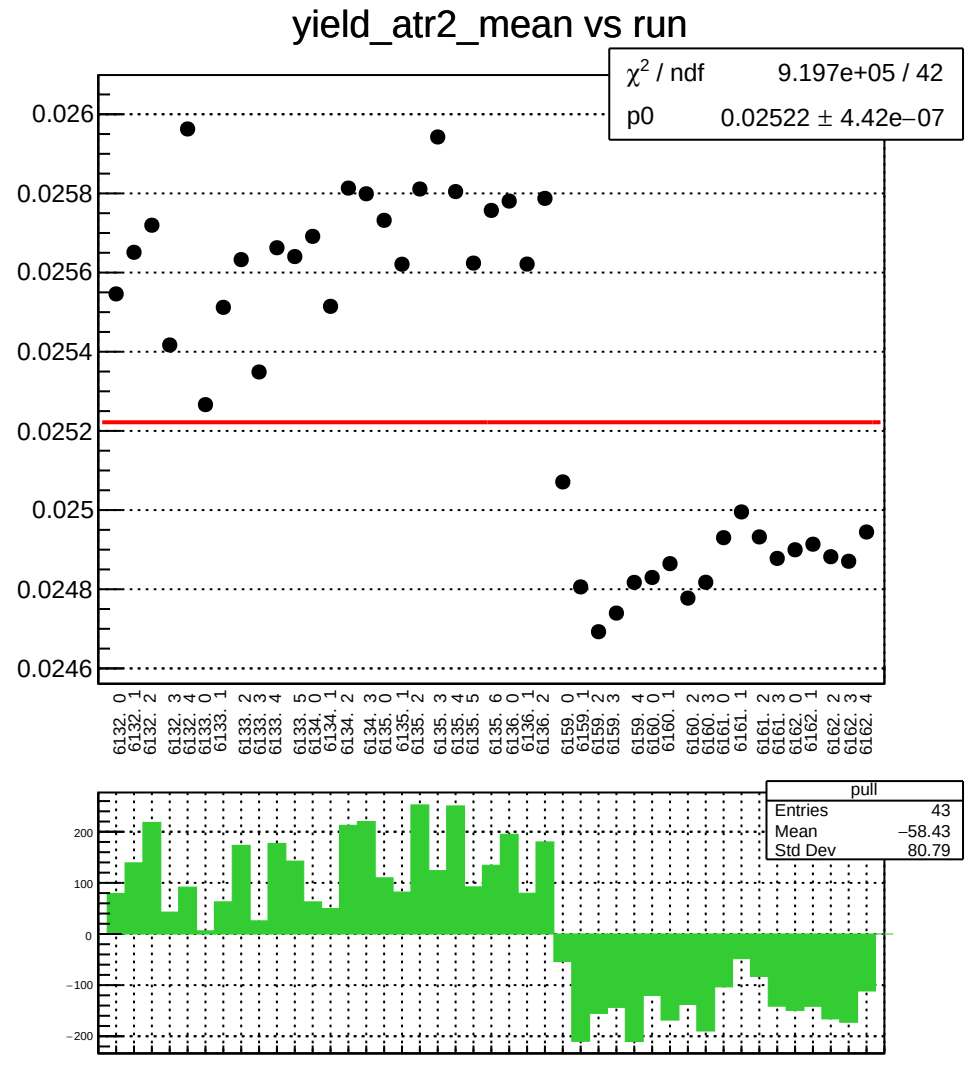

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.468e+04 / 42
p0 7.478e−05 ± 8.072e−08
0.12
0.11
0.1
0.09
0.08
0.07
0.06
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

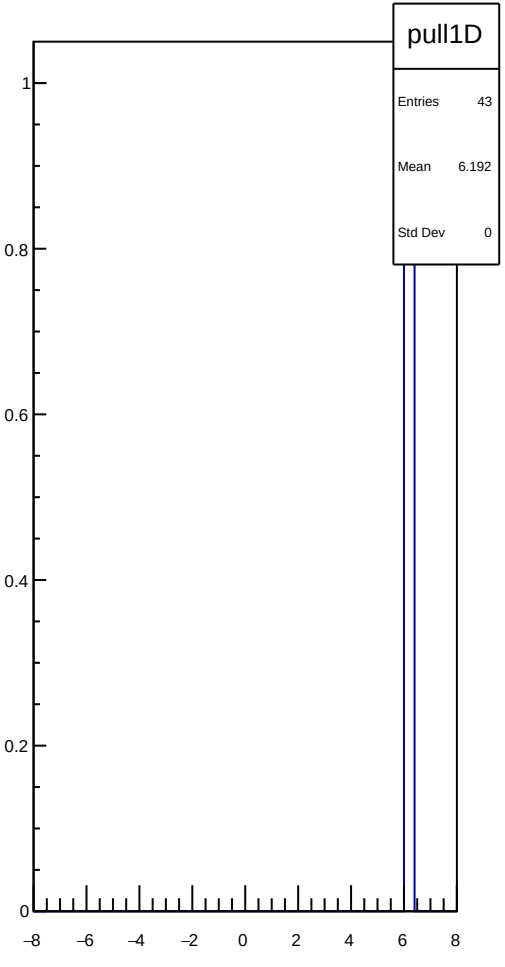

yield_atl2_mean vs run
χ² / ndf 1.366e+06 / 42
p0 0.04697 ± 5.315e−07
0.048
0.0475
0.047
0.0465
0.046
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −78.9
Std Dev 102
300
200
100
0
−100
−200
pull1D
Entries 43
Mean −1.105
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

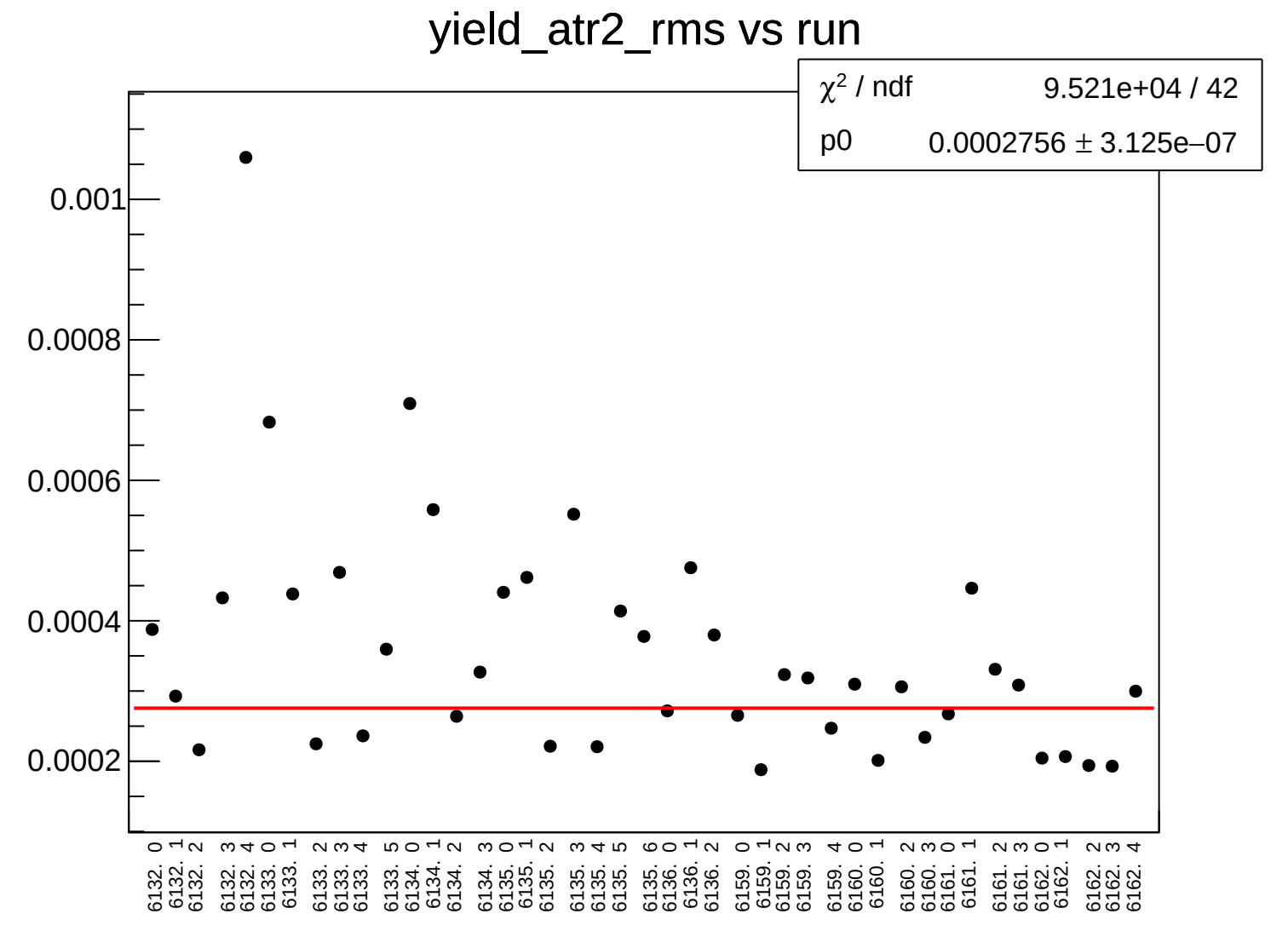

yield_atl2_rms vs run
χ² / ndf 8.076e+04 / 42
p0 0.0003345 ± 3.758e−07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

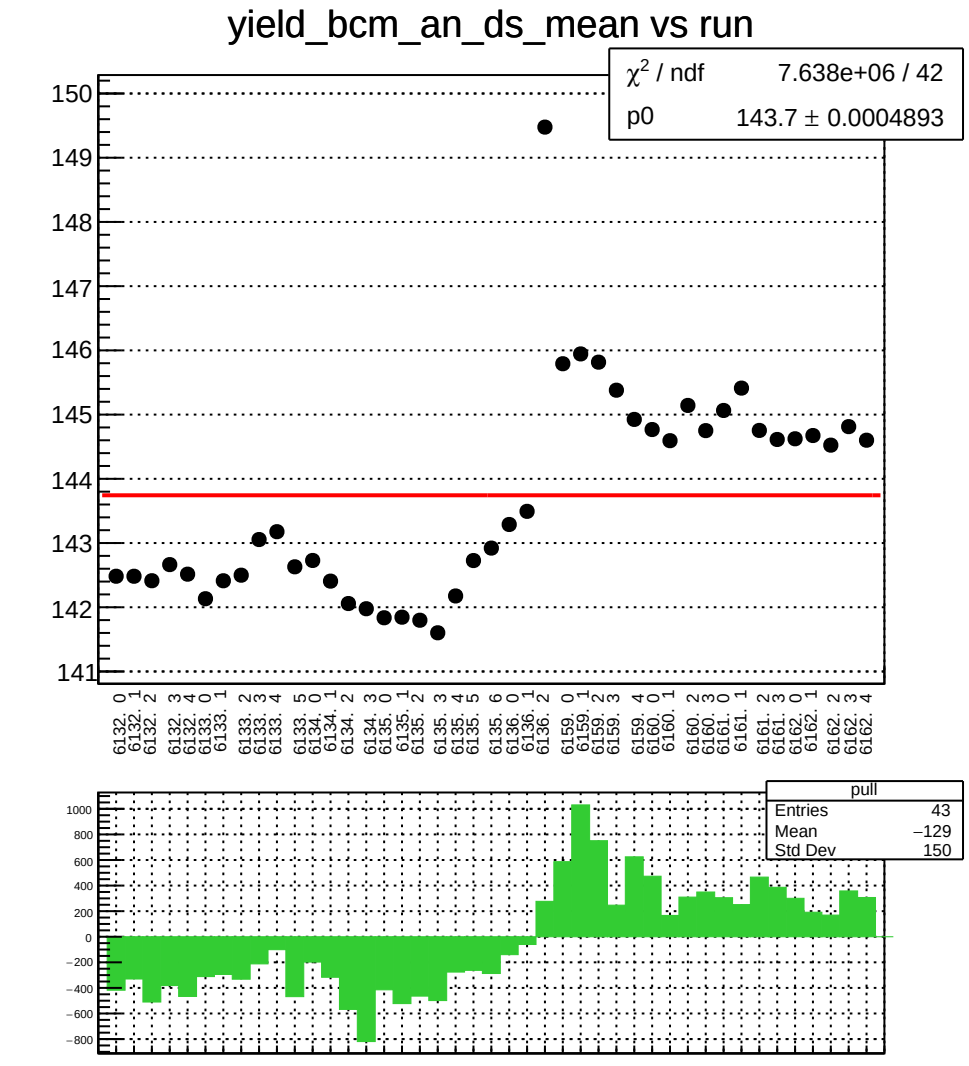

yield_atr1_mean vs run
χ² / ndf 1.232e+05 / 42
p0 0.03817 ± 1.91e−07
0.0383
0.03825
0.0382
0.03815
0.0381
0.03805
0.038
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 4056
Std Dev 4025
100
50
0
−50
−100
pull1D
Entries 43
Mean 0.438
Std Dev 4.61
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

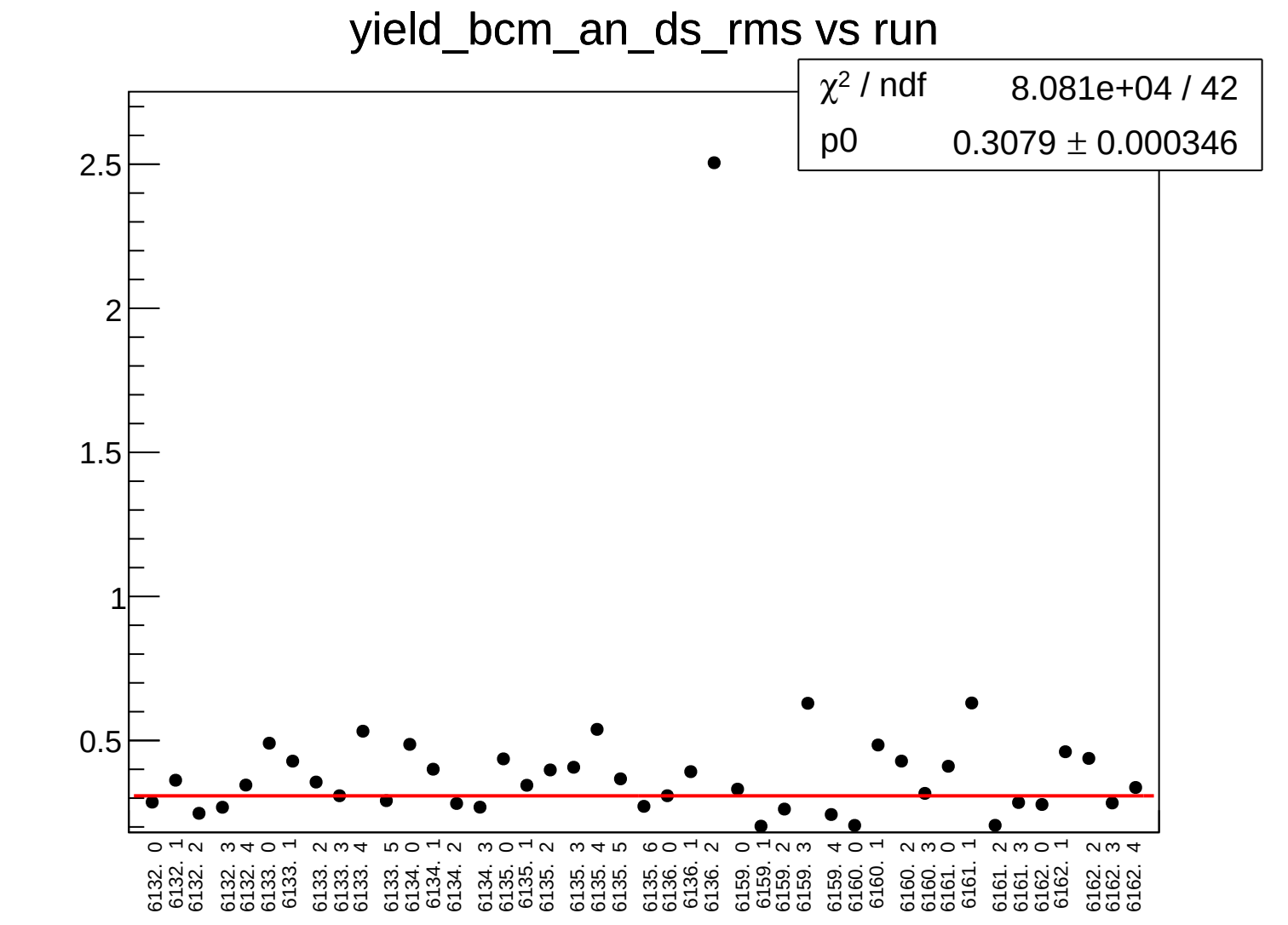

yield_atr1_rms vs run
×10⁻³
χ² / ndf 1.348e+04 / 42
p0 0.0001252 ± 1.351e−07
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

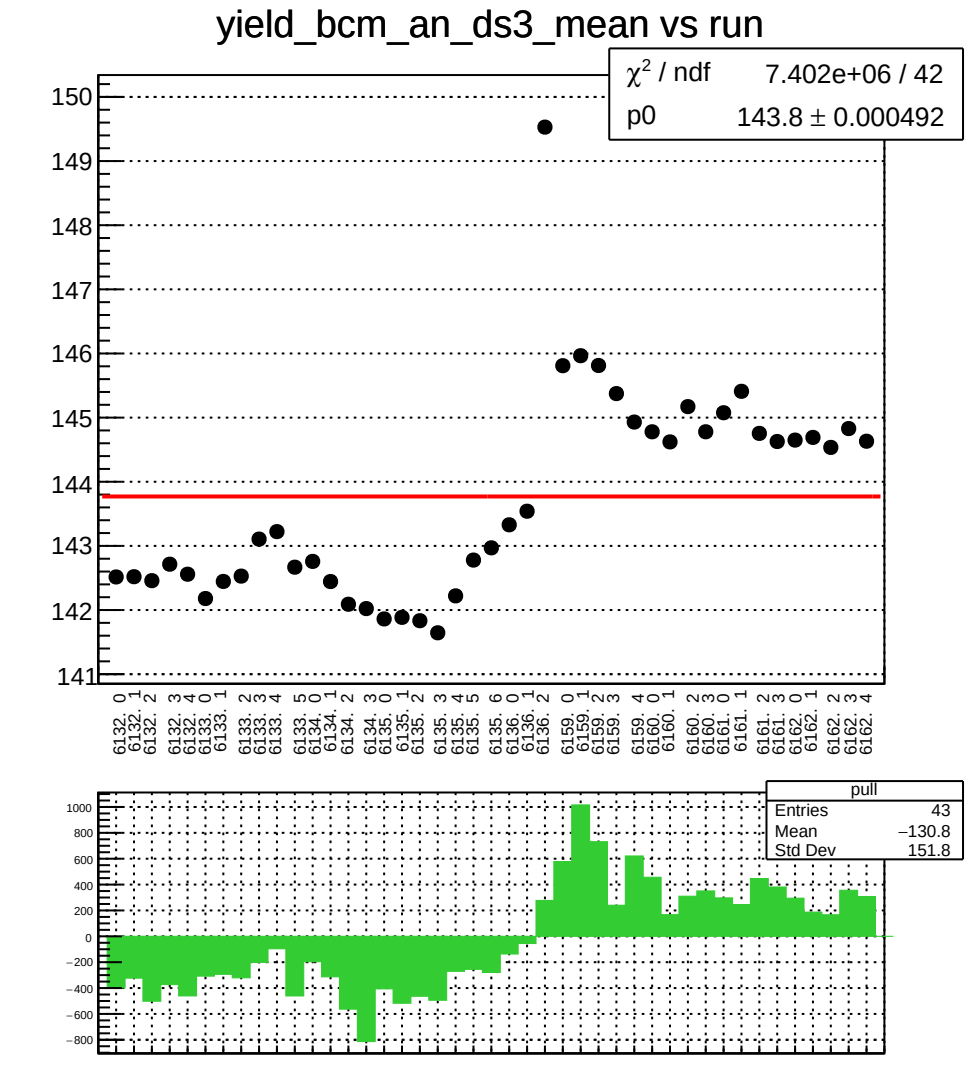

yield_atr2_mean vs run
χ² / ndf 9.197e+05 / 42
p0 0.02522 ± 4.42e−07
0.026
0.0258
0.0256
0.0254
0.0252
0.025
0.0248
0.0246
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −58.43
Std Dev 80.79
200
100
0
−100
−200

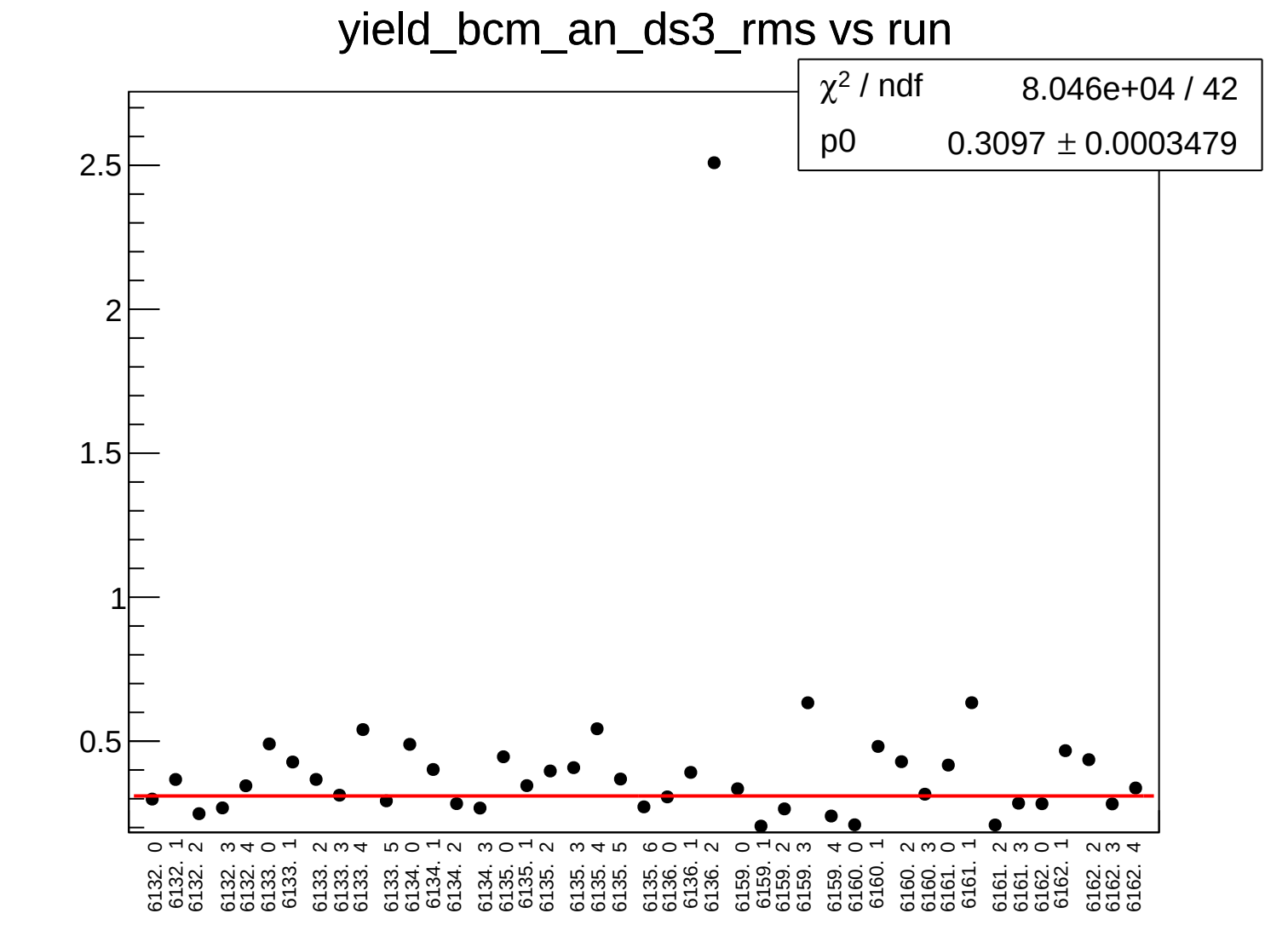

pull1D
Entries 43
Mean 6.192
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

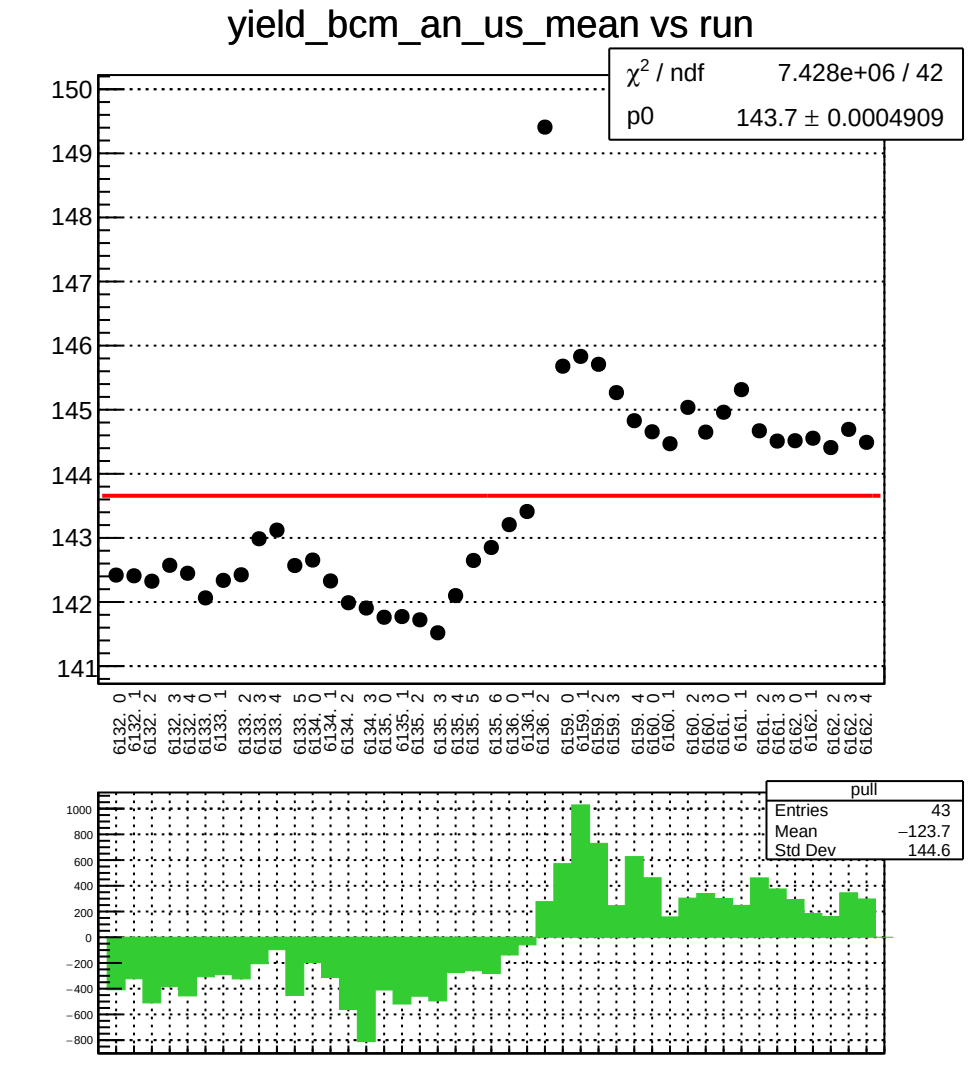

yield_atr2_rms vs run
χ² / ndf 9.521e+04 / 42
p0 0.0002756 ± 3.125e−07
0.001
0.0008
0.0006
0.0004
0.0002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

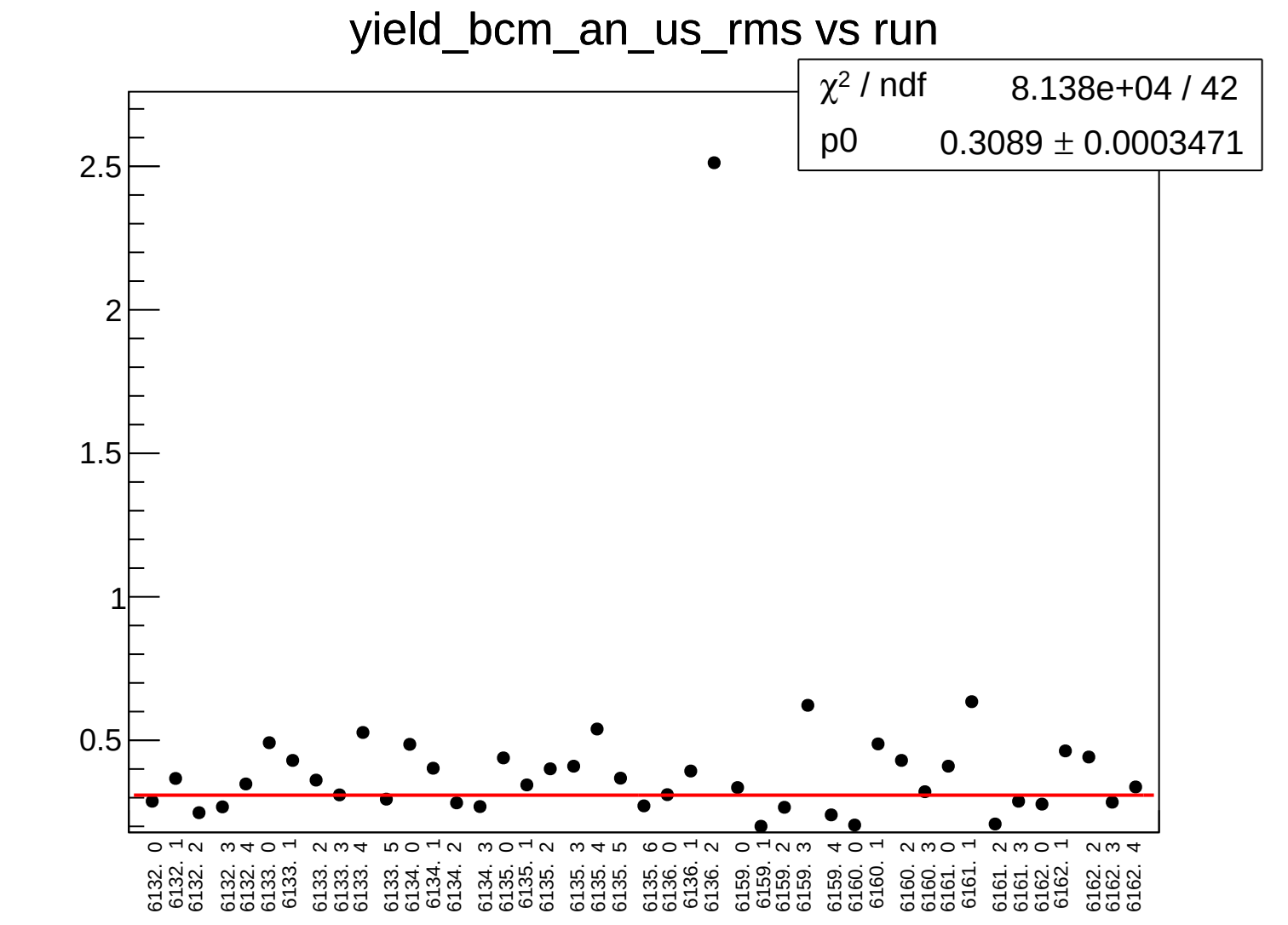

yield_bcm_an_ds_mean vs run
χ² / ndf 7.638e+06 / 42
p0 143.7 ± 0.0004893
150
149
148
147
146
145
144
143
142
141
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −129
Std Dev 150
1000
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

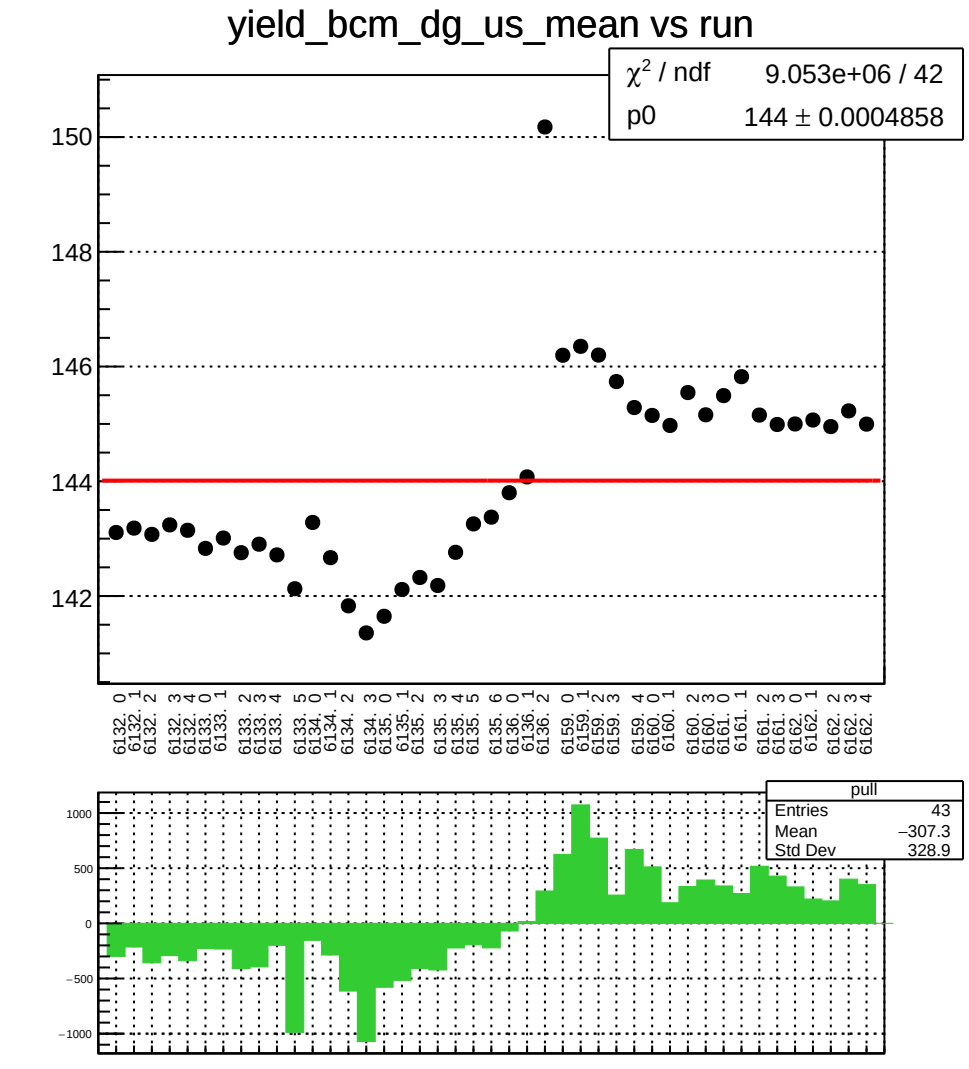

yield_bcm_an_ds_rms vs run
χ² / ndf 8.081e+04 / 42
p0 0.3079 ± 0.000346
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

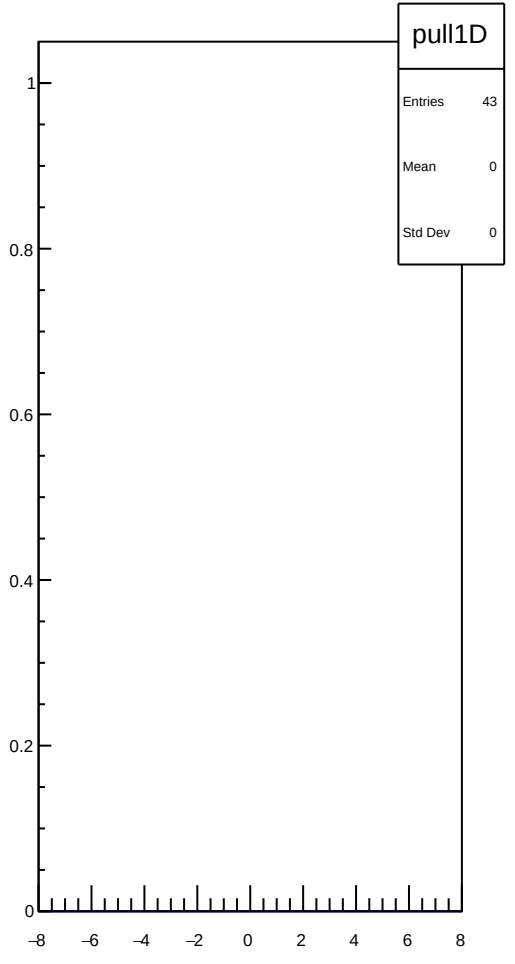

yield_bcm_an_ds3_mean vs run
χ² / ndf 7.402e+06 / 42
p0 143.8 ± 0.000492
150
149
148
147
146
145
144
143
142
141
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −130.8
Std Dev 151.8
1000
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

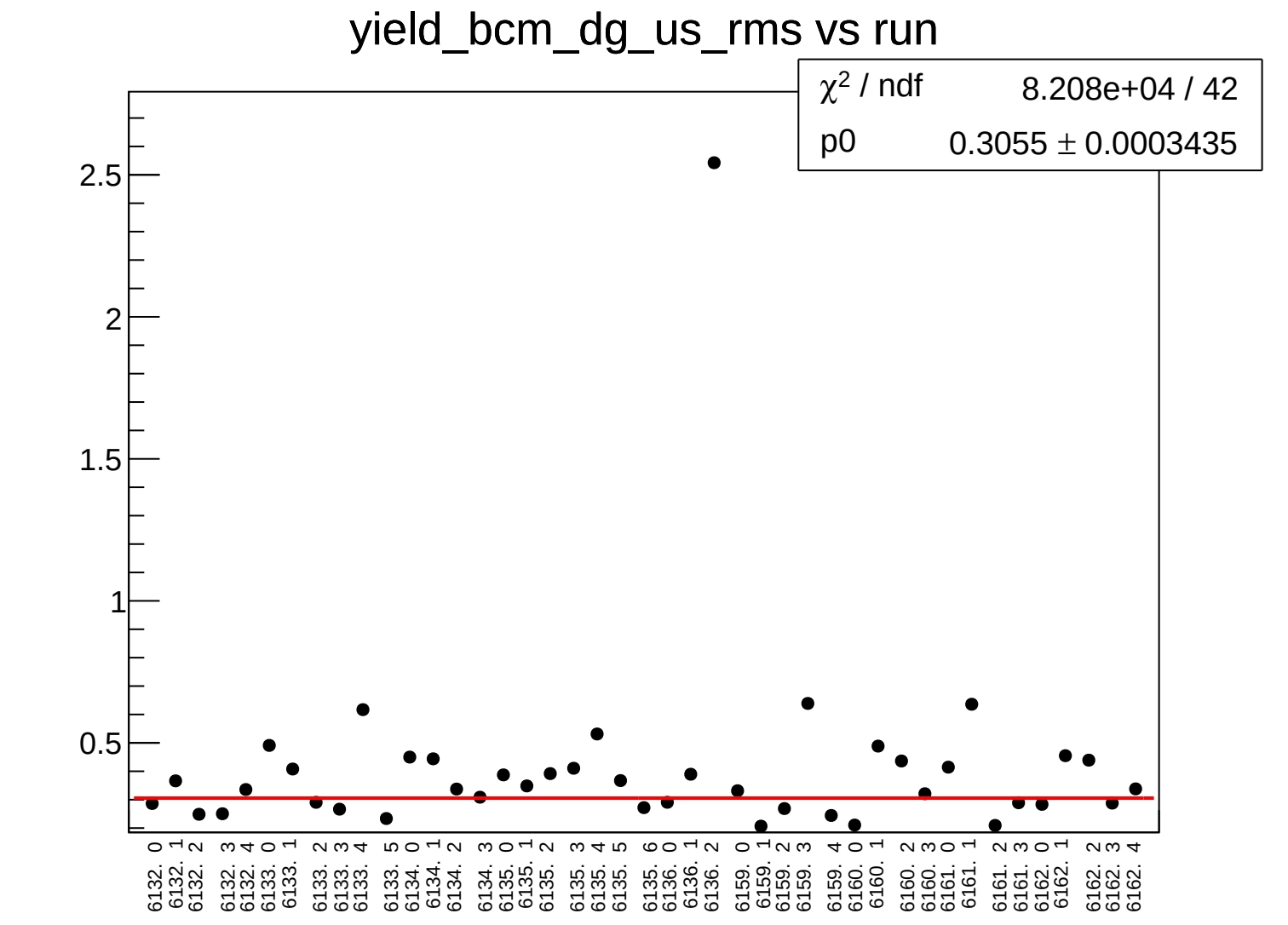

yield_bcm_an_ds3_rms vs run
χ² / ndf 8.046e+04 / 42
p0 0.3097 ± 0.0003479
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

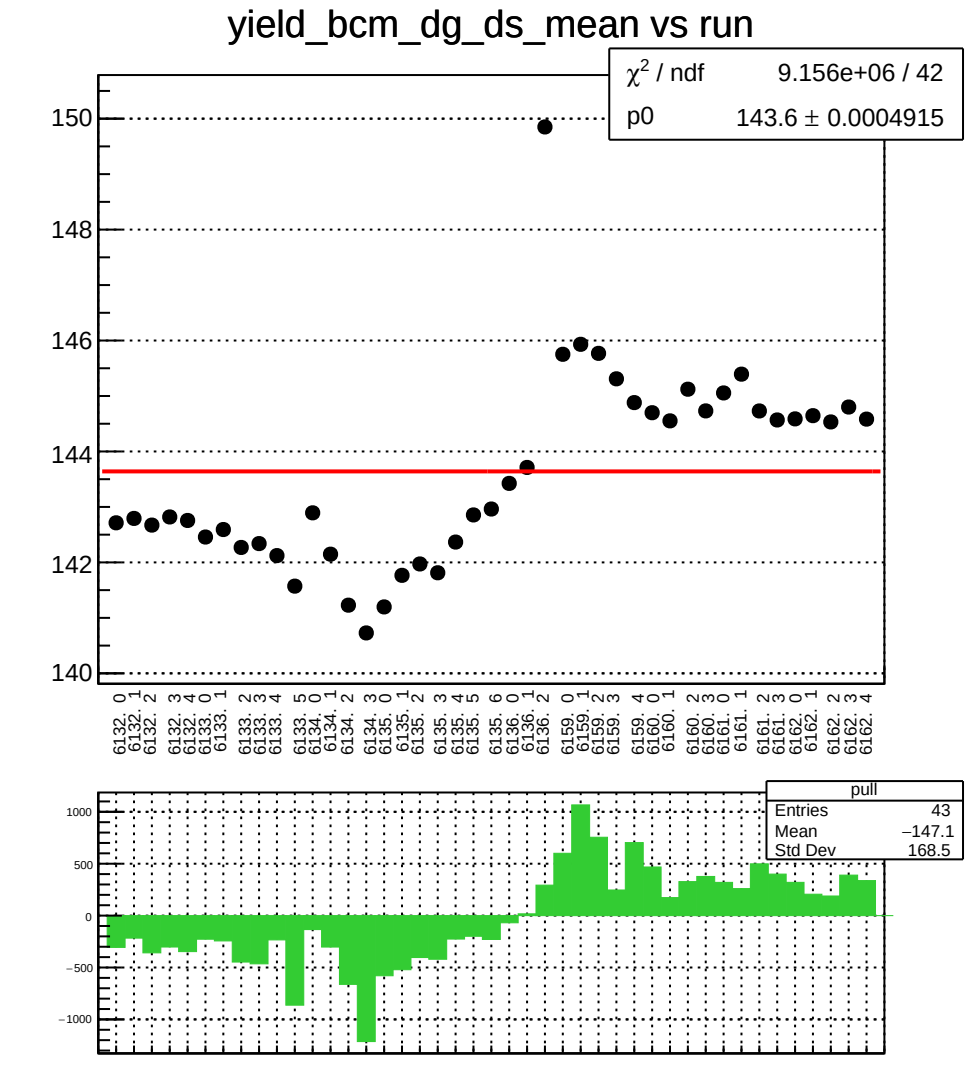

yield_bcm_an_us_mean vs run
χ² / ndf 7.428e+06 / 42
p0 143.7 ± 0.0004909
150
149
148
147
146
145
144
143
142
141
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −123.7
Std Dev 144.6
1000
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

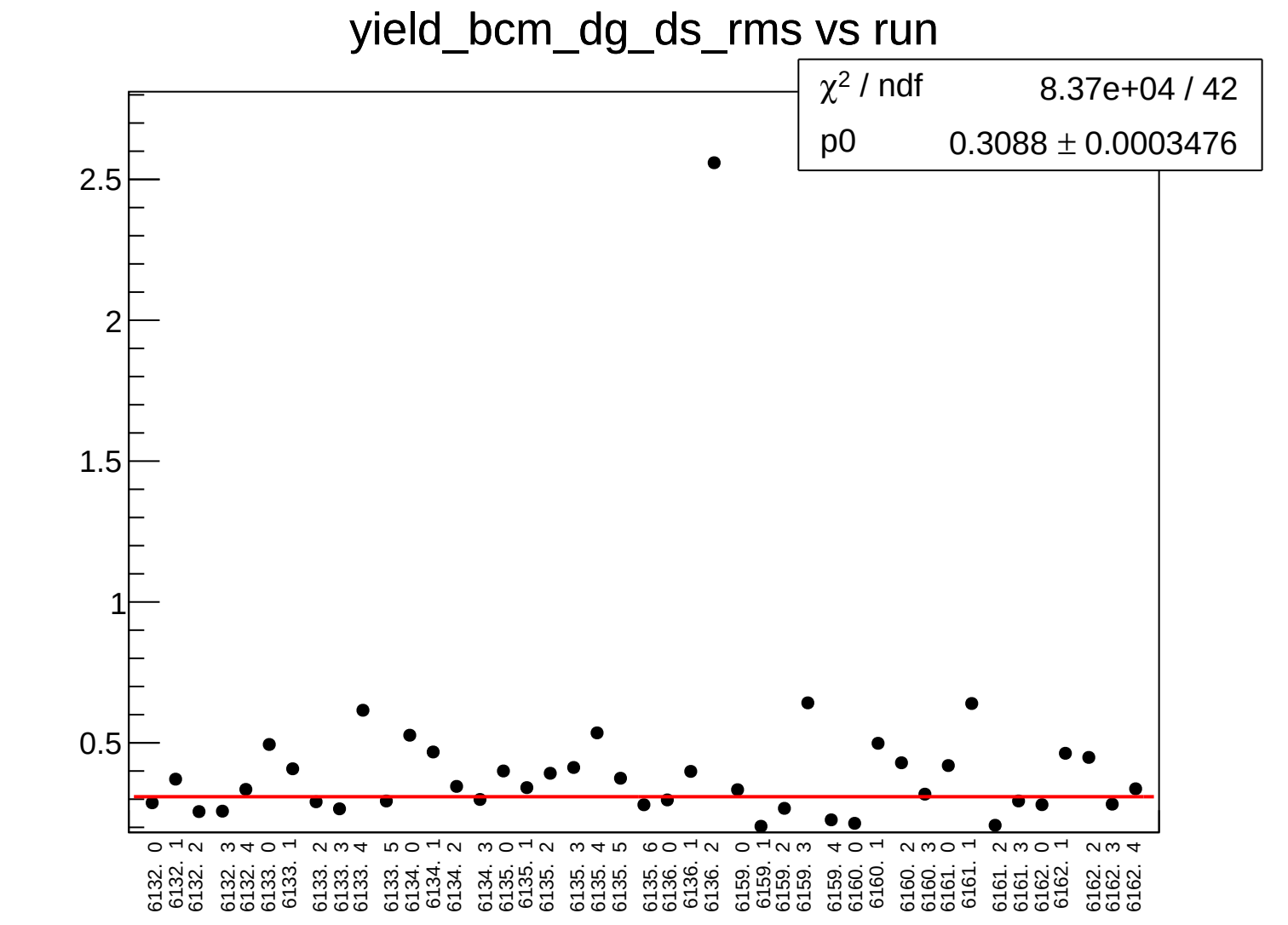

yield_bcm_an_us_rms vs run
χ² / ndf 8.138e+04 / 42
p0 0.3089 ± 0.0003471
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

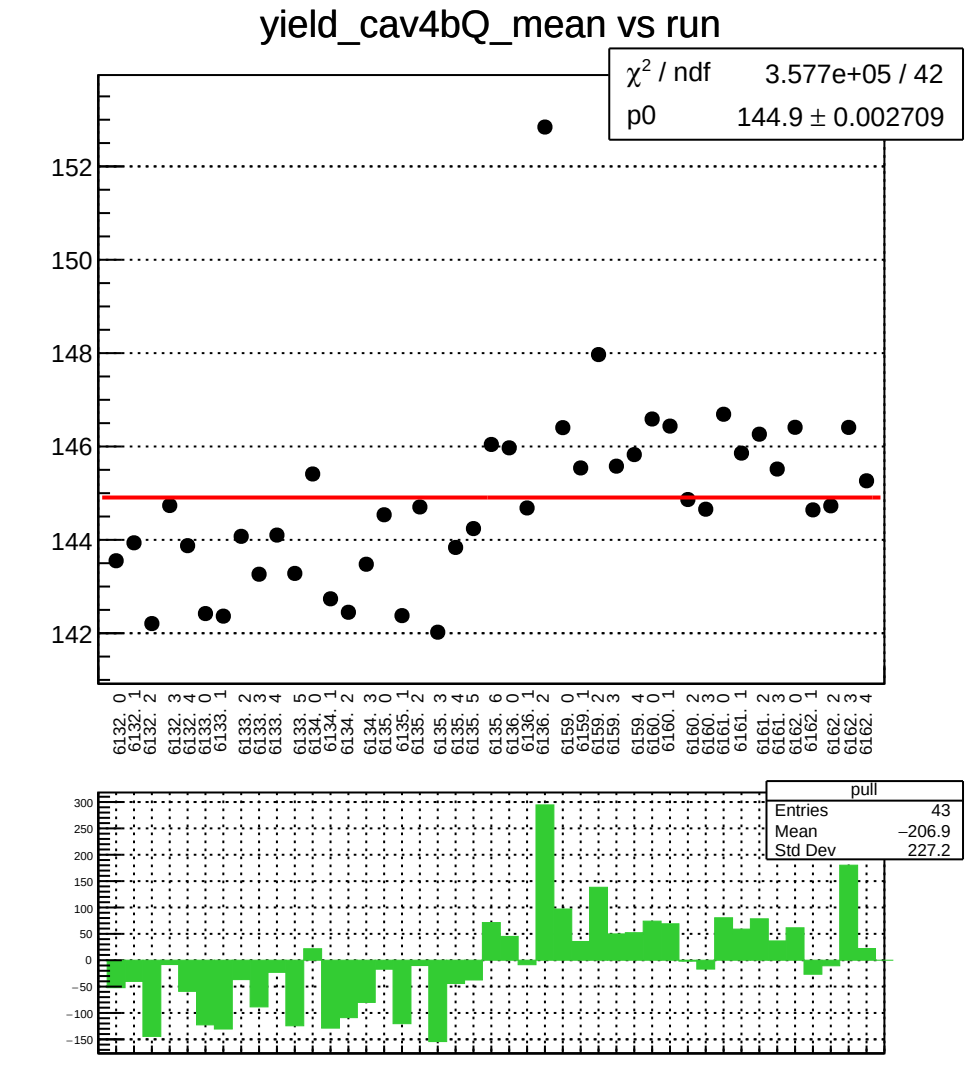

yield_bcm_dg_us_mean vs run
χ² / ndf 9.053e+06 / 42
p0 144 ± 0.0004858
150
148
146
144
142
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −307.3
Std Dev 328.9
1000
500
0
−500
−1000

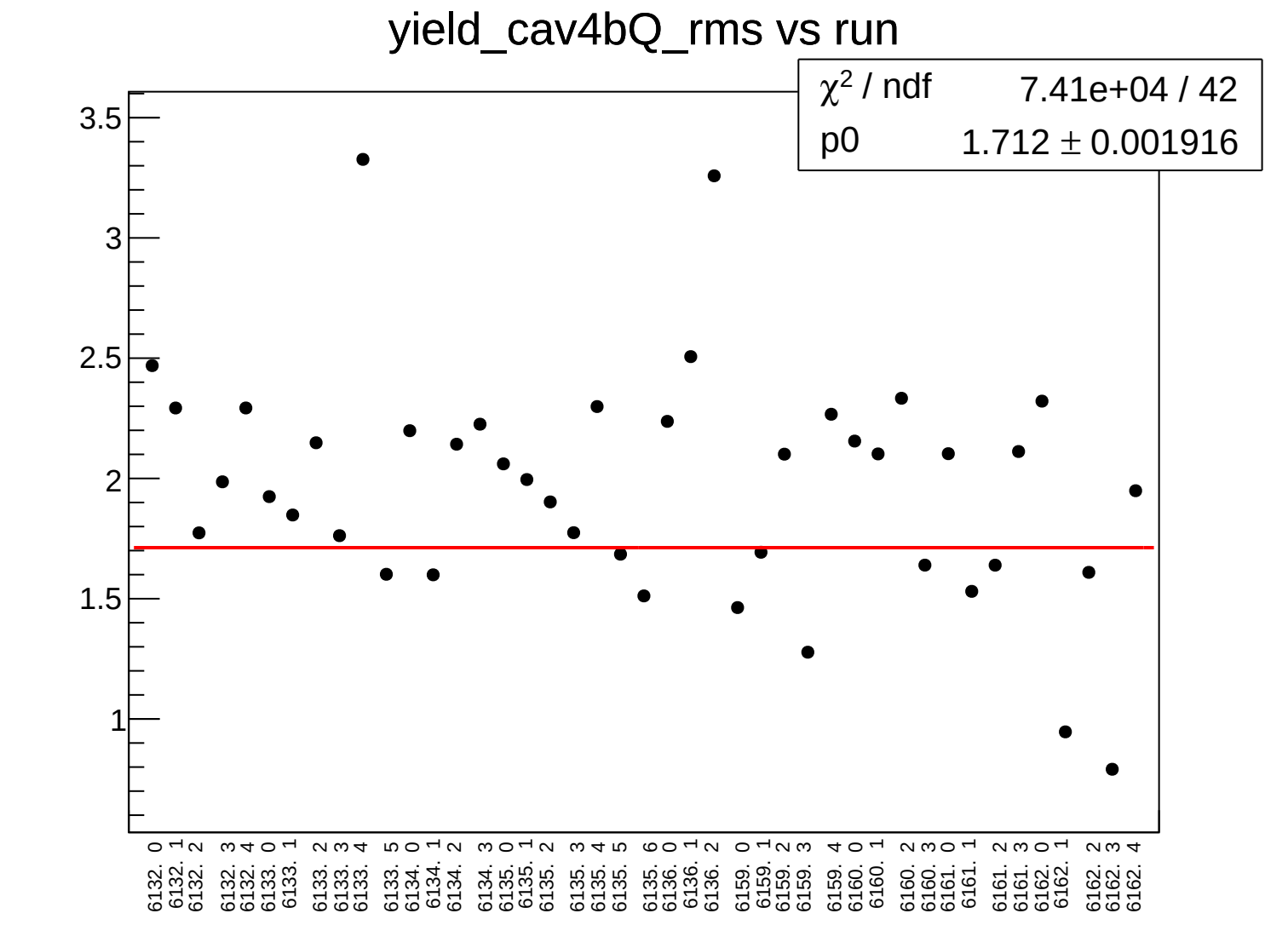

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

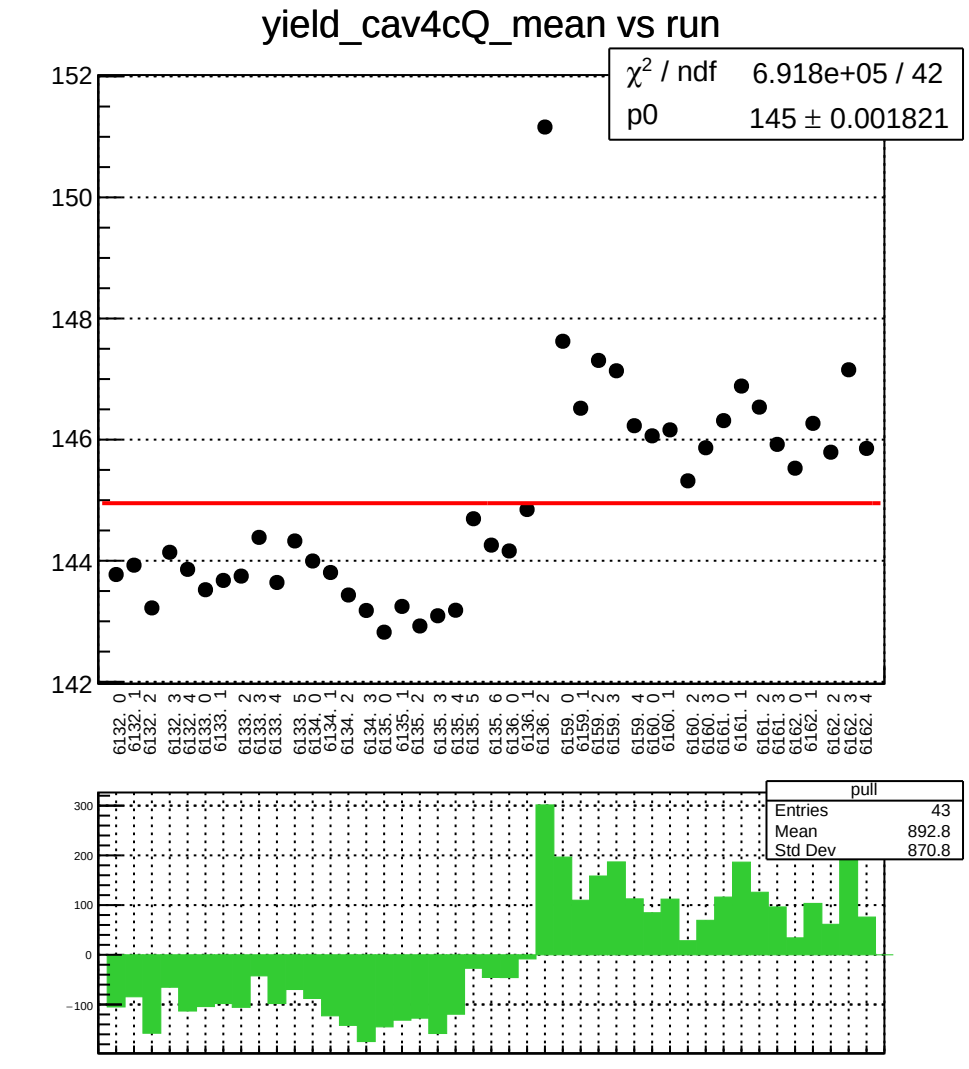

yield_bcm_dg_us_rms vs run
χ² / ndf 8.208e+04 / 42
p0 0.3055 ± 0.0003435
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

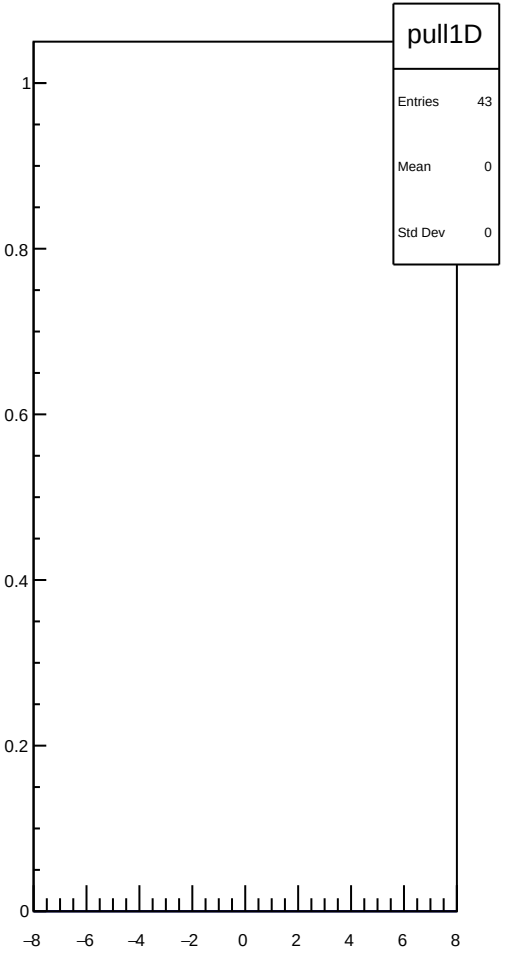

yield_bcm_dg_ds_mean vs run
χ² / ndf 9.156e+06 / 42
p0 143.6 ± 0.0004915
150
148
146
144
142
140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −147.1
Std Dev 168.5
1000
500
0
−500
−1000
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

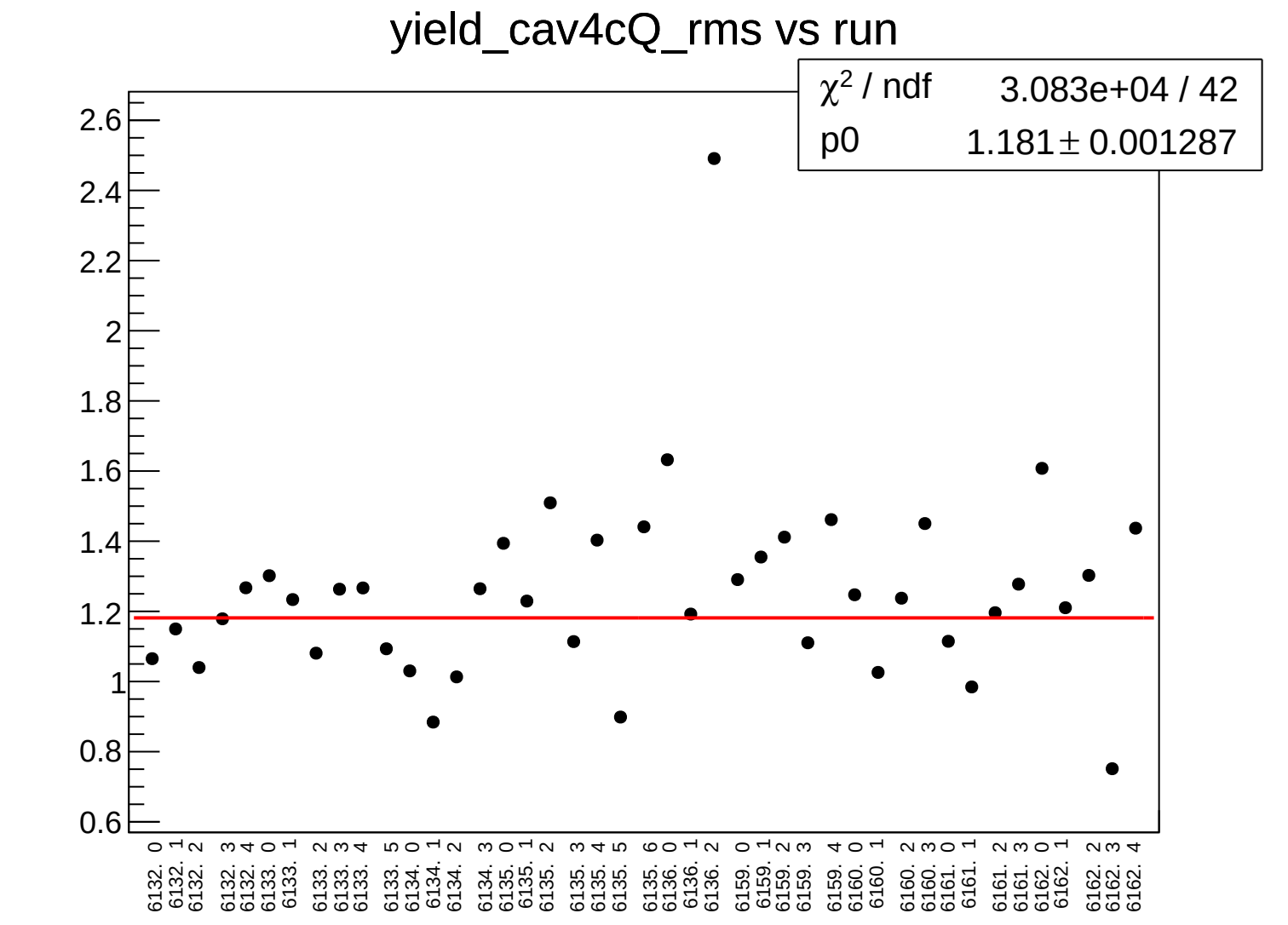

yield_bcm_dg_ds_rms vs run
χ² / ndf 8.37e+04 / 42
p0 0.3088 ± 0.0003476
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

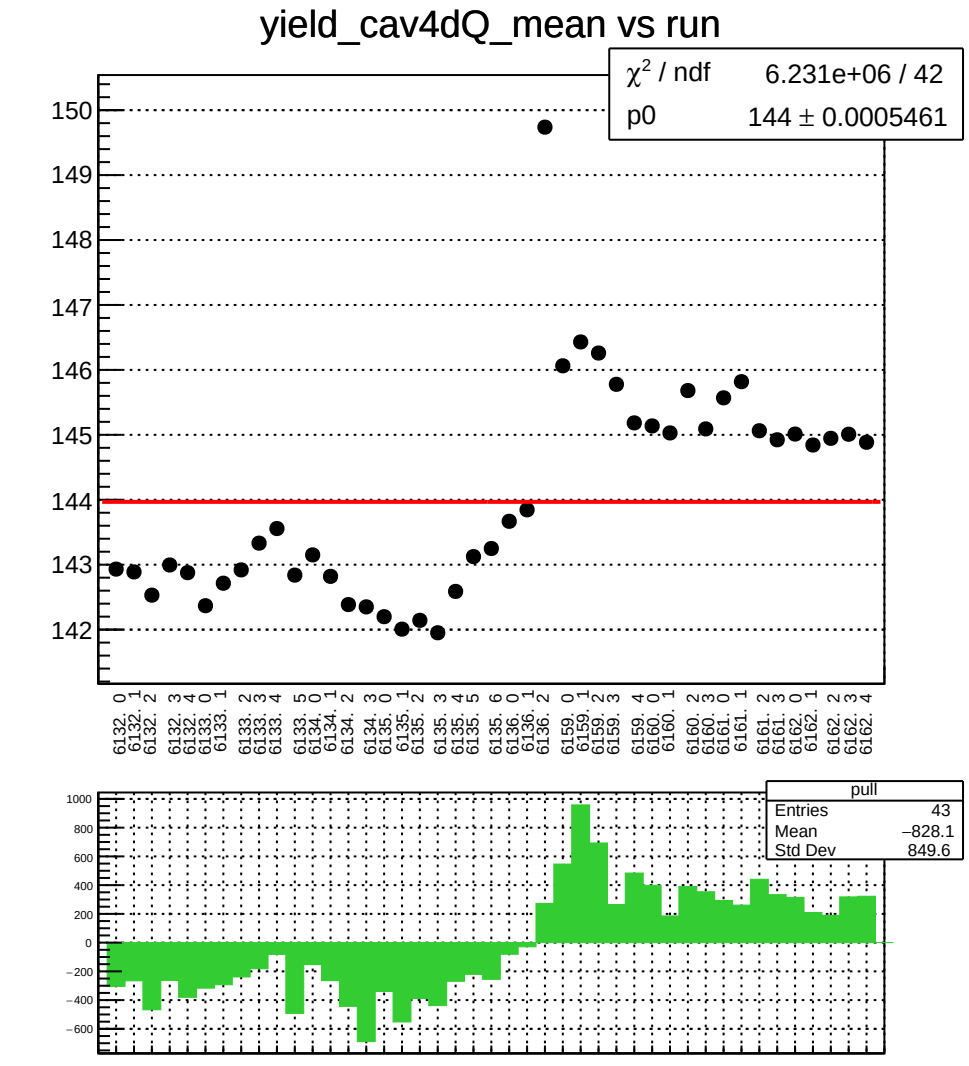

yield_cav4bQ_mean vs run
χ² / ndf 3.577e+05 / 42
p0 144.9 ± 0.002709
152
150
148
146
144
142
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −206.9
Std Dev 227.2
300
250
200
150
100
50
0
−50
−100
−150
pull1D
Entries 43
Mean −1.738
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

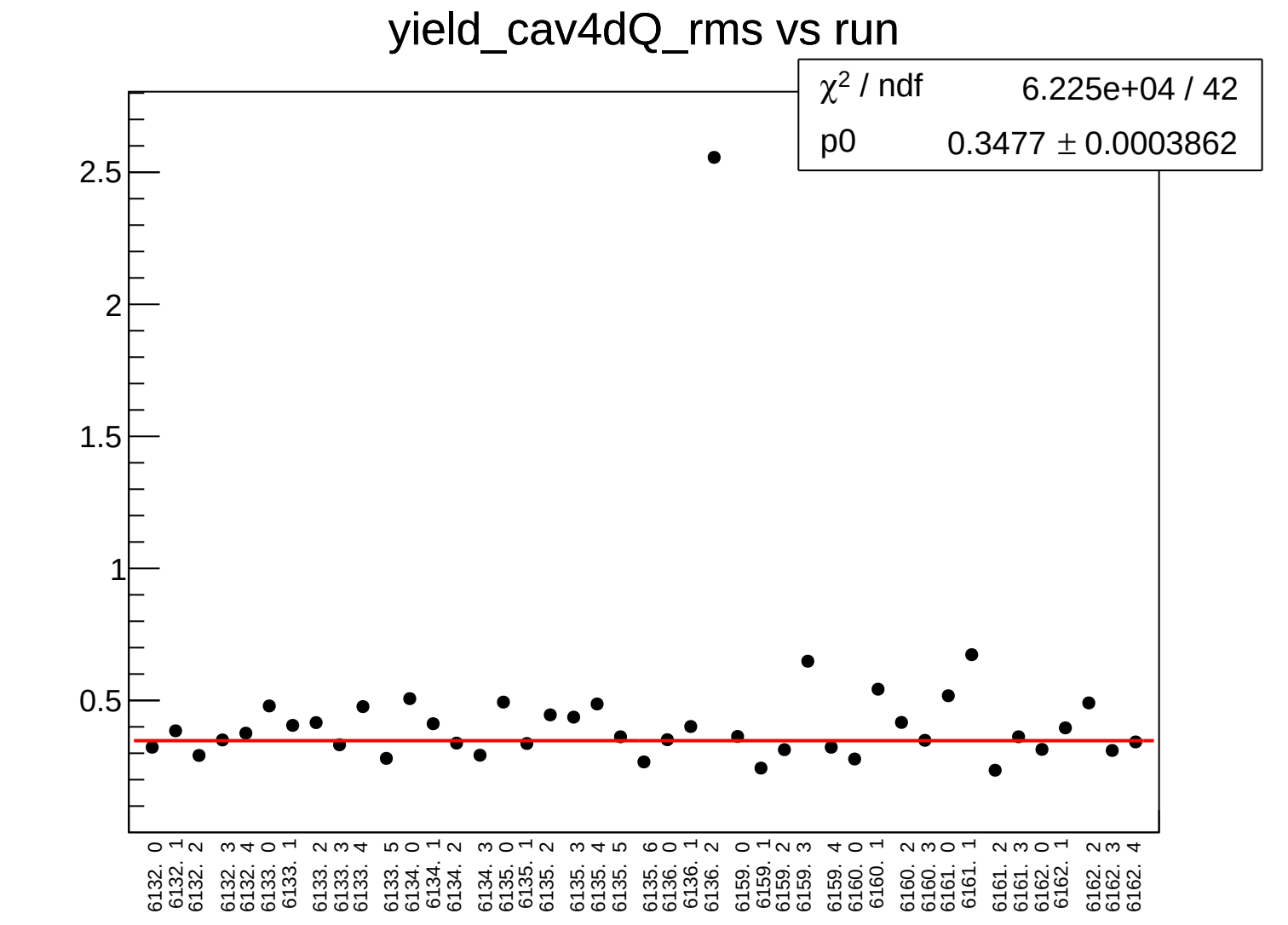

yield_cav4bQ_rms vs run
χ² / ndf 7.41e+04 / 42
p0 1.712 ± 0.001916
3.5
3
2.5
2
1.5
1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

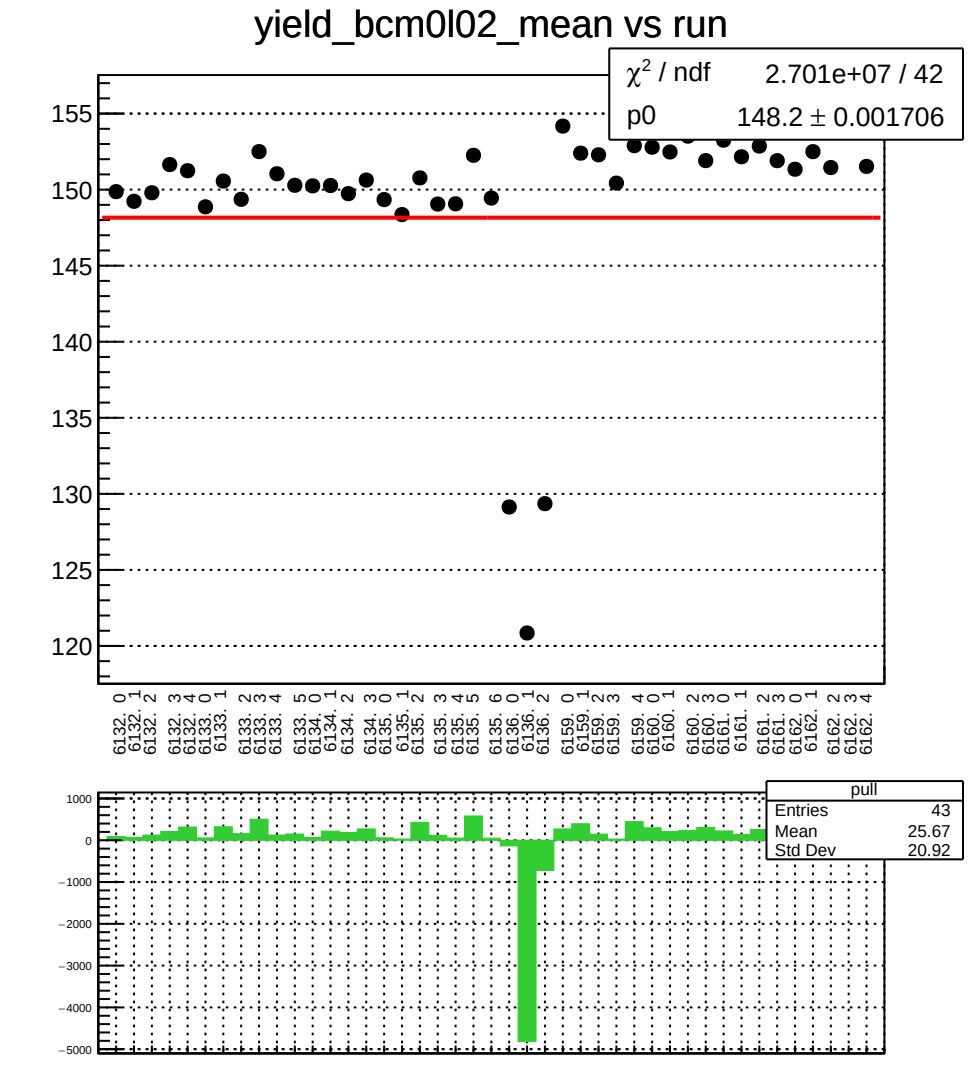

yield_cav4cQ_mean vs run
χ² / ndf 6.918e+05 / 42
p0 145 ± 0.001821
152
150
148
146
144
142
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 892.8
Std Dev 870.8
300
200
100
0
−100

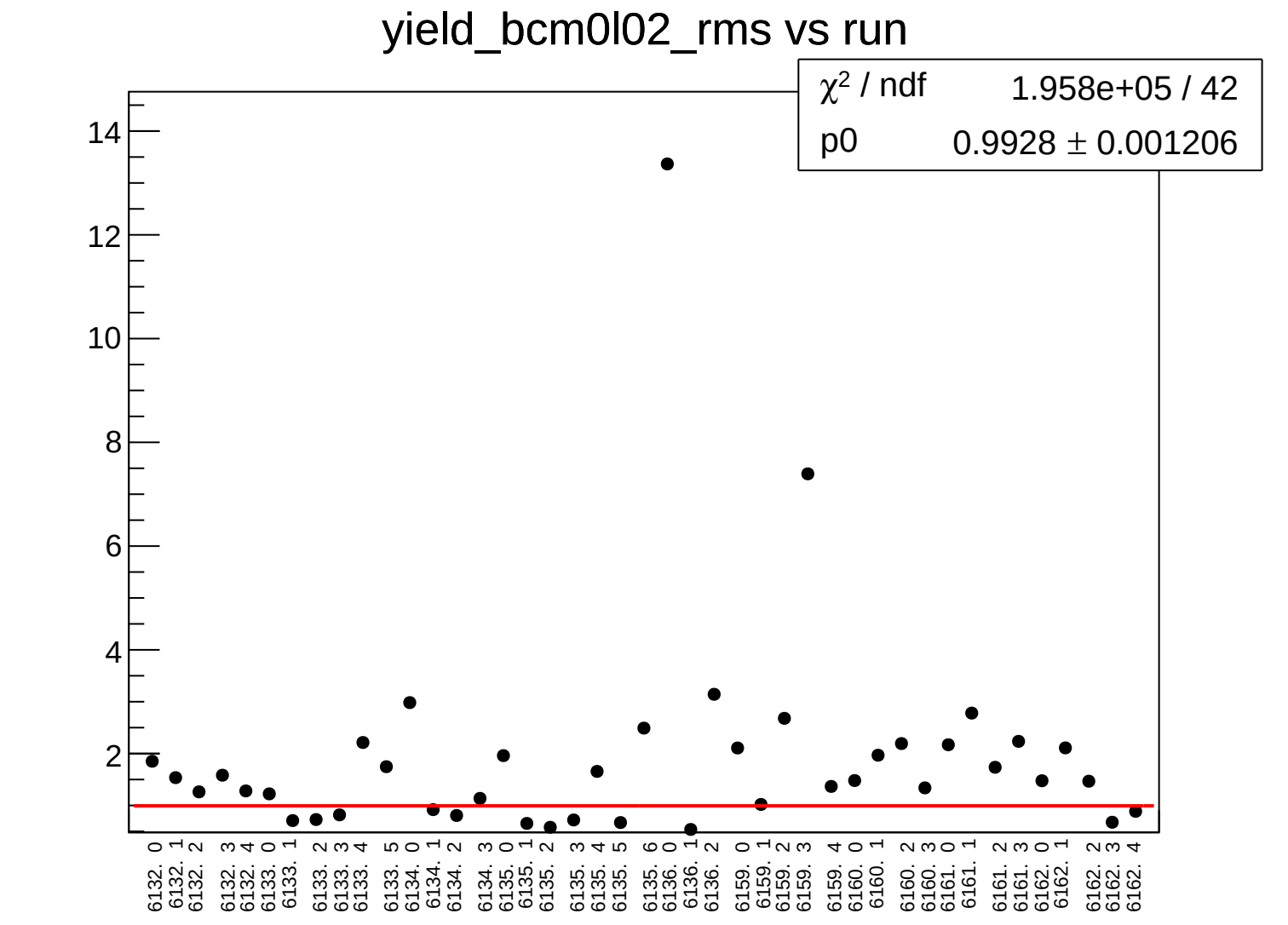

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

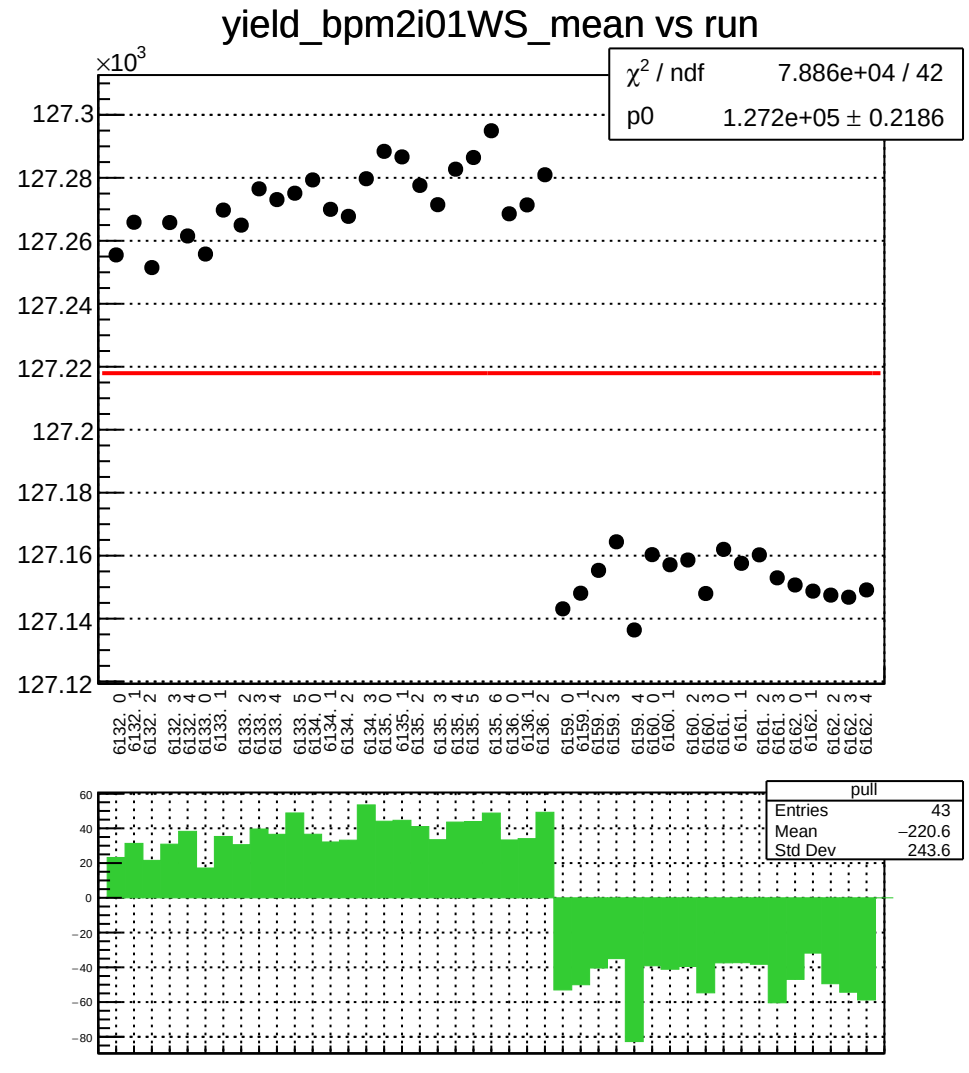

yield_cav4cQ_rms vs run
χ^2 / ndf 3.083e+04 / 42
p0 1.181 ± 0.001287
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

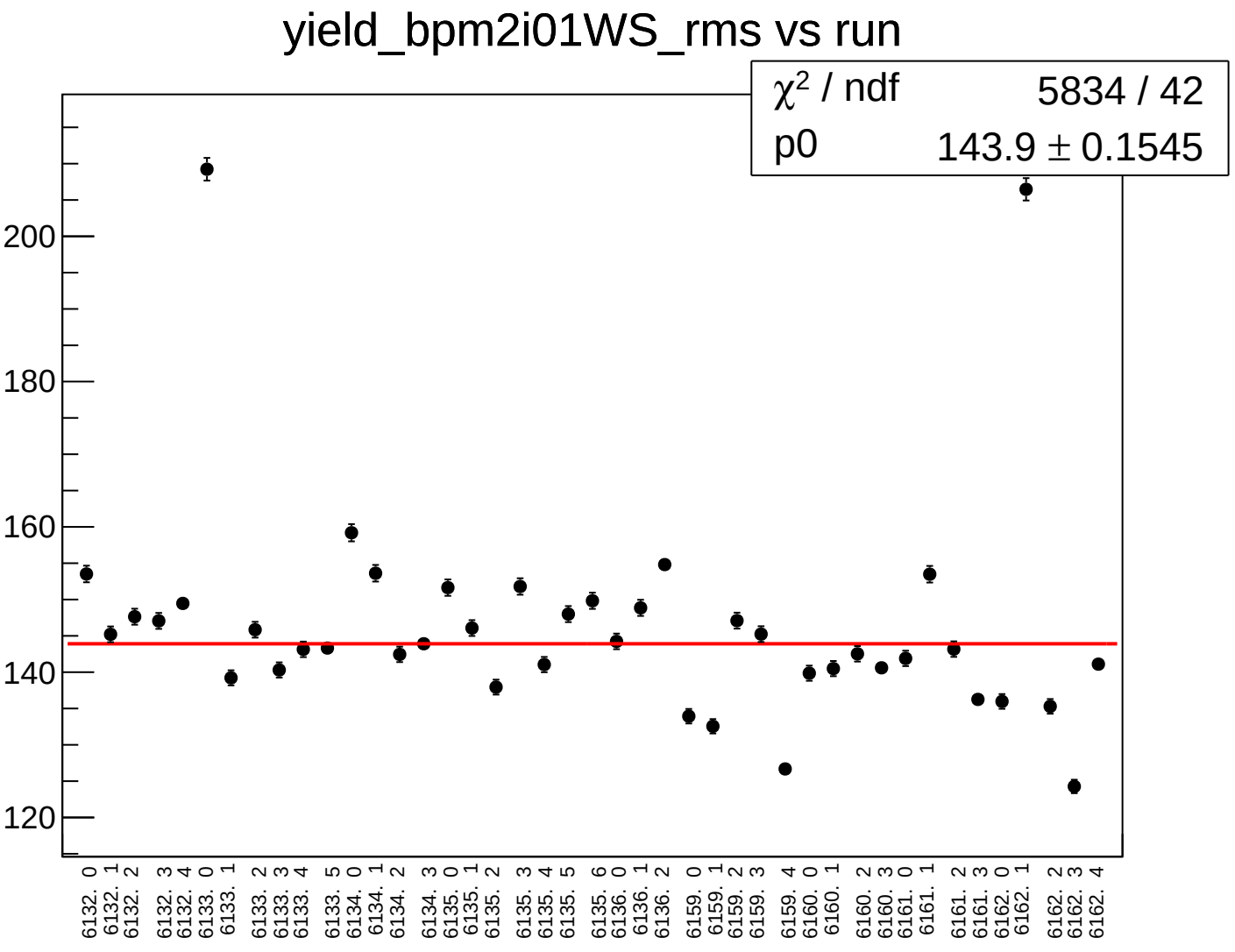

yield_cav4dQ_mean vs run
χ² / ndf 6.231e+06 / 42
p0 144 ± 0.0005461
150
149
148
147
146
145
144
143
142
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −828.1
Std Dev 849.6
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

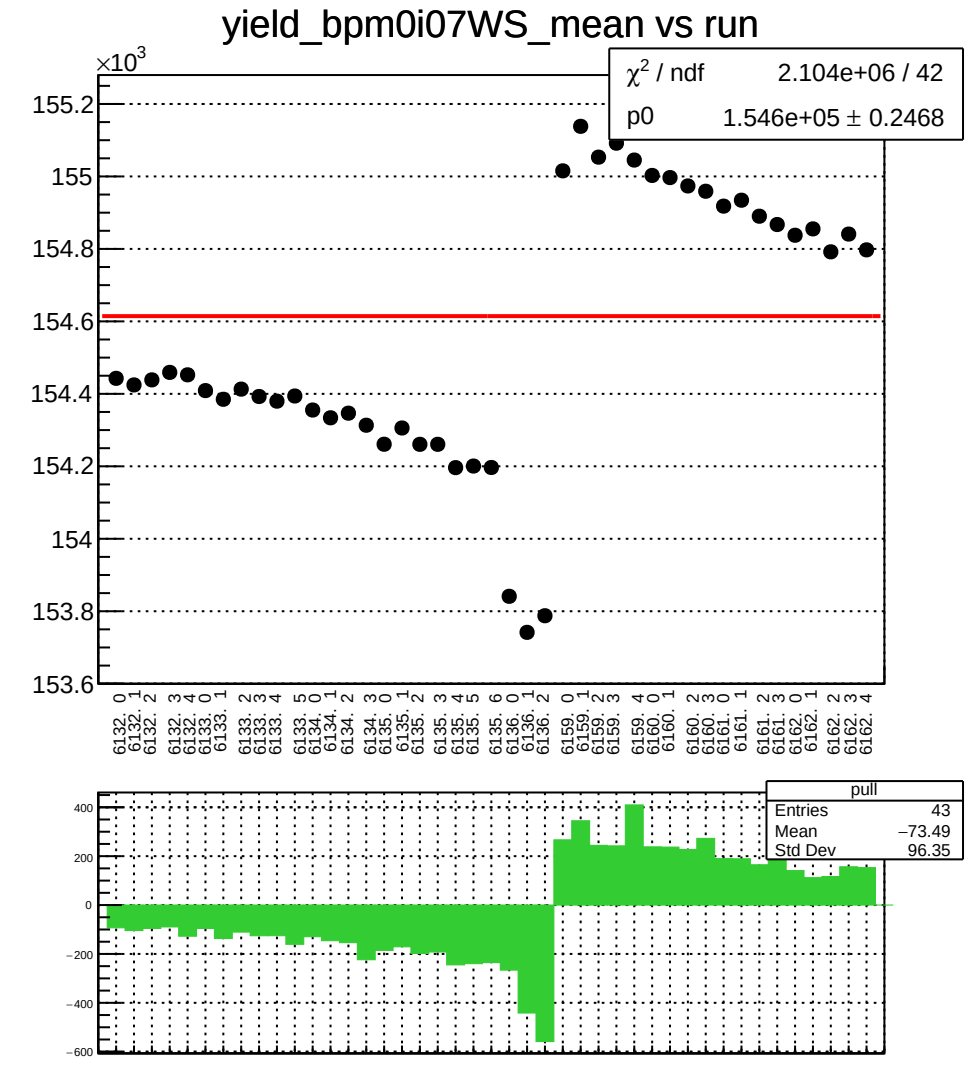

yield_cav4dQ_rms vs run
χ² / ndf 6.225e+04 / 42
p0 0.3477 ± 0.0003862
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

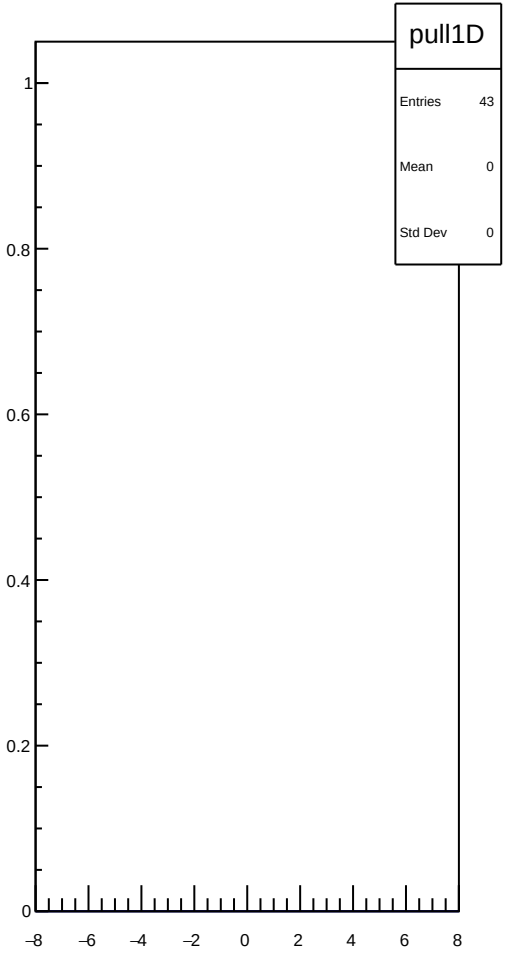

yield_bcm0l02_mean vs run
χ² / ndf 2.701e+07 / 42
p0 148.2 ± 0.001706
155
150
145
140
135
130
125
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 25.67
Std Dev 20.92
1000
0
−1000
−2000
−3000
−4000
−5000
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

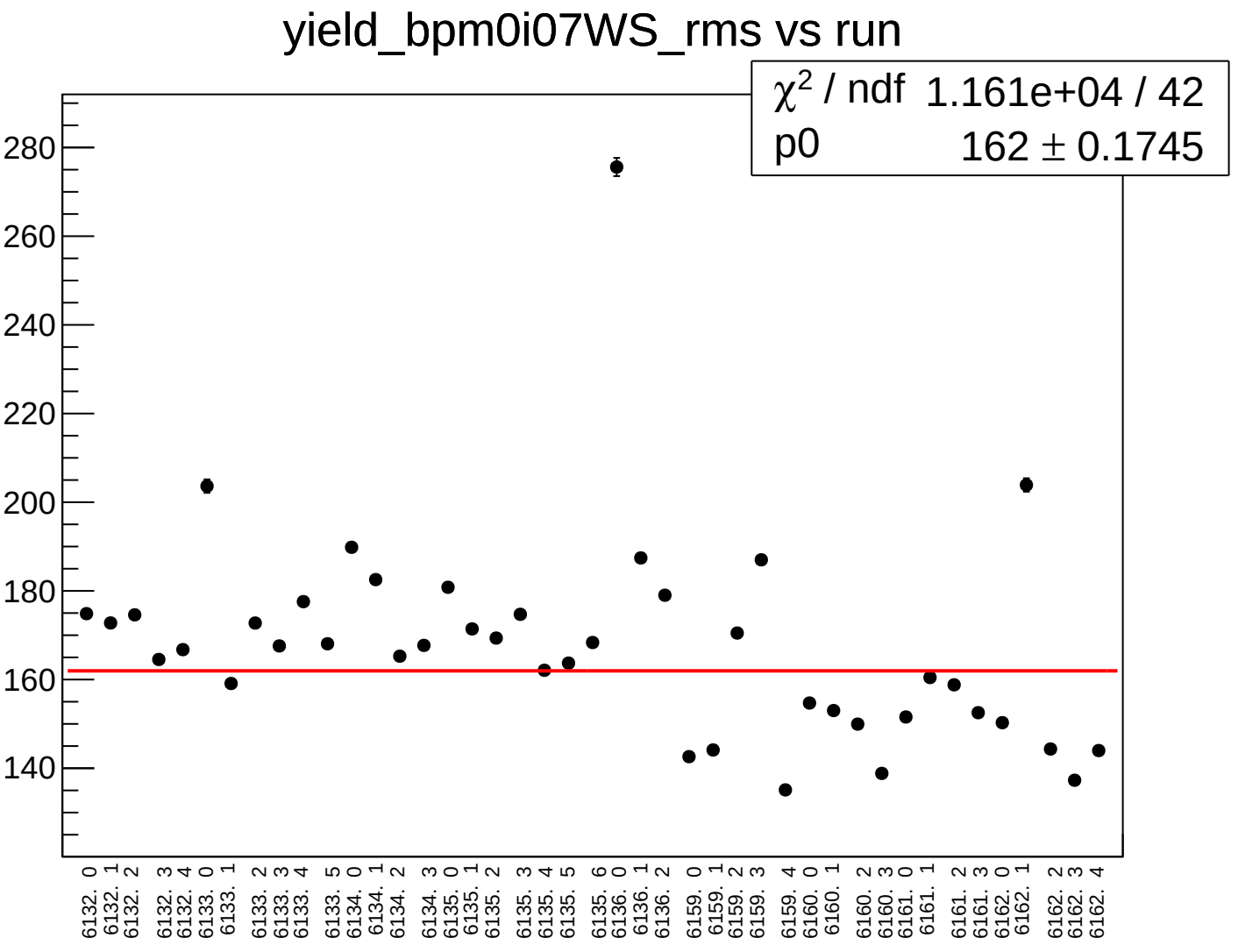

yield_bcm0l02_rms vs run
χ² / ndf 1.958e+05 / 42
p0 0.9928 ± 0.001206
14
12
10
8
6
4
2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

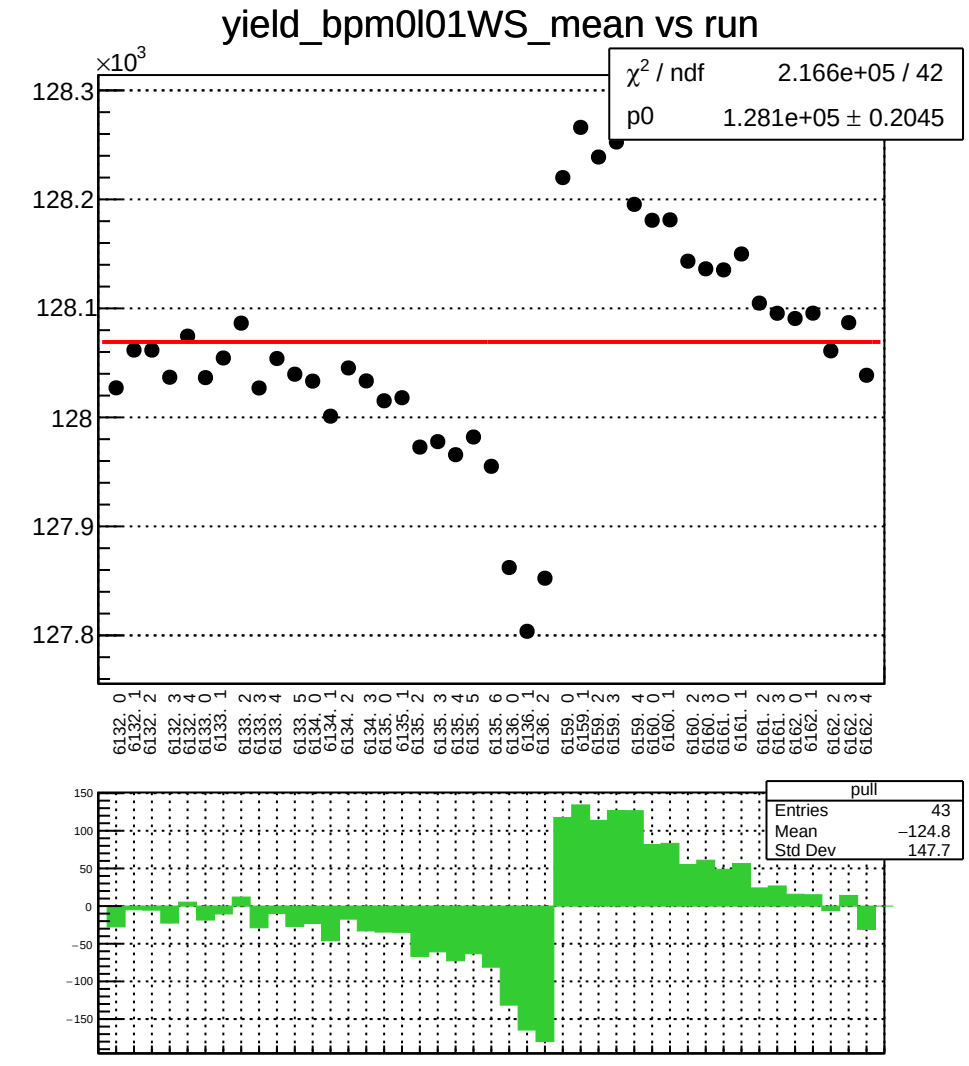

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 7.886e+04 / 42
p0 1.272e+05 ± 0.2186
127.3
127.28
127.26
127.24
127.22
127.2
127.18
127.16
127.14
127.12
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −220.6
Std Dev 243.6
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

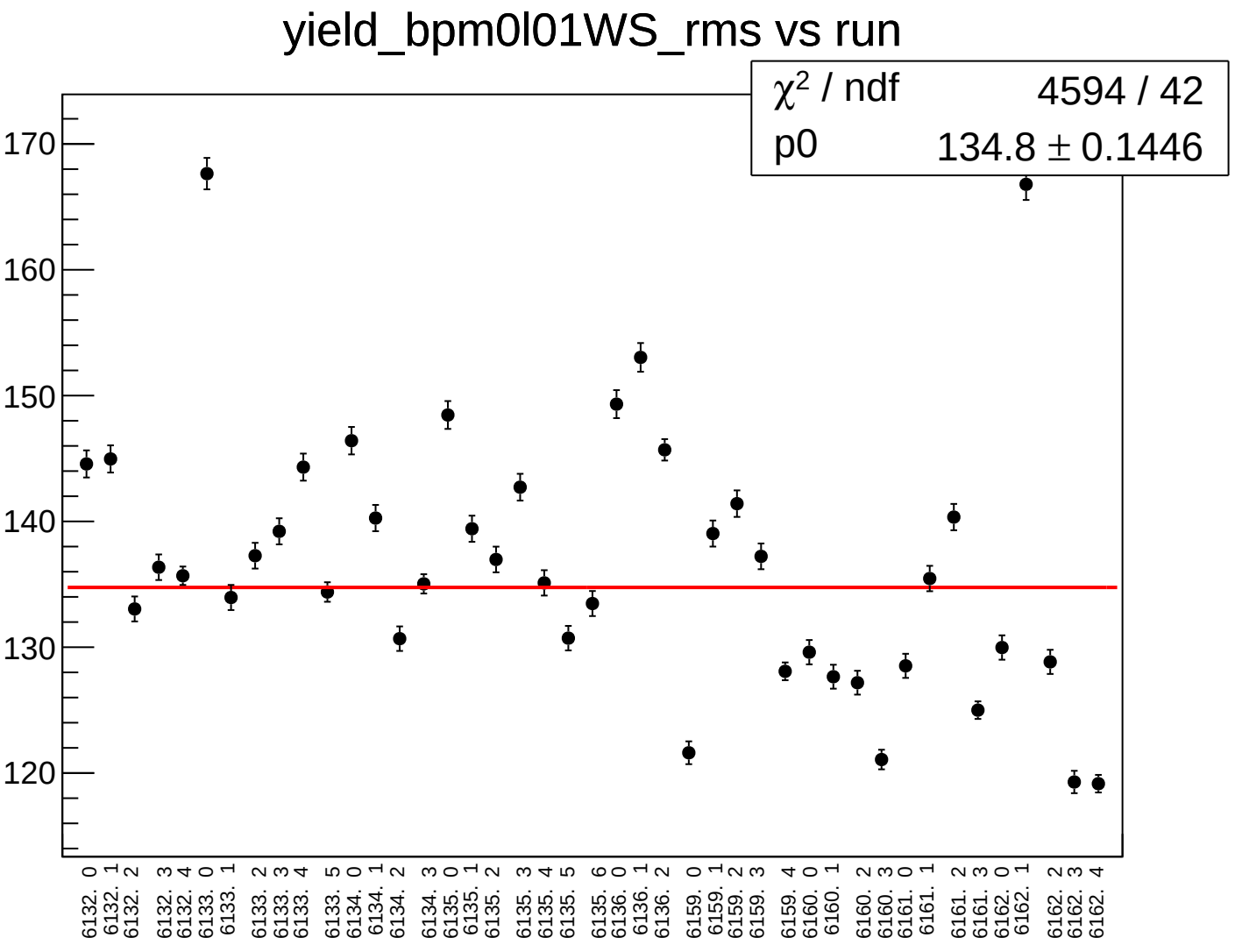

yield_bpm2i01WS_rms vs run
χ² / ndf 5834 / 42
p0 143.9 ± 0.1545
200
180
160
140
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

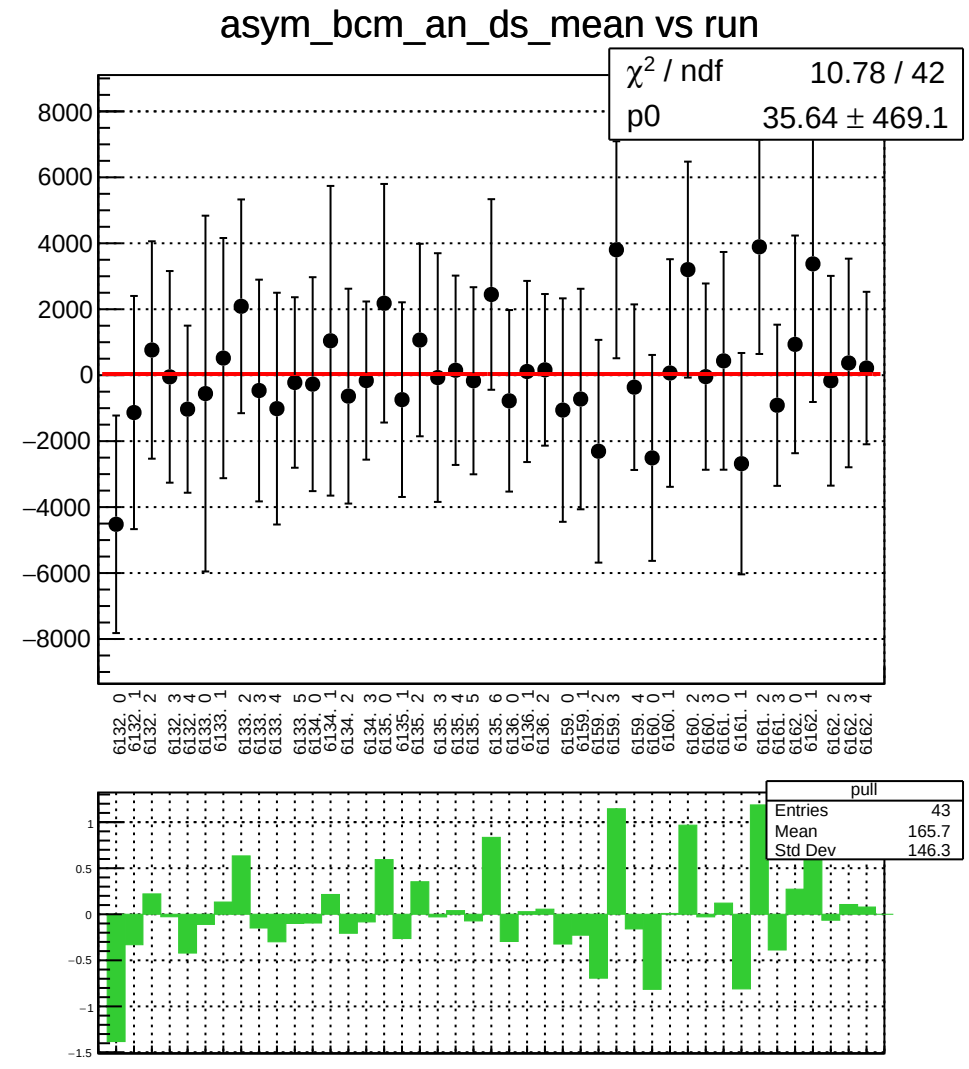

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 2.104e+06 / 42
p0 1.546e+05 ± 0.2468
155.2
155
154.8
154.6
154.4
154.2
154
153.8
153.6
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −73.49
Std Dev 96.35
400
200
0
−200
−400
−600

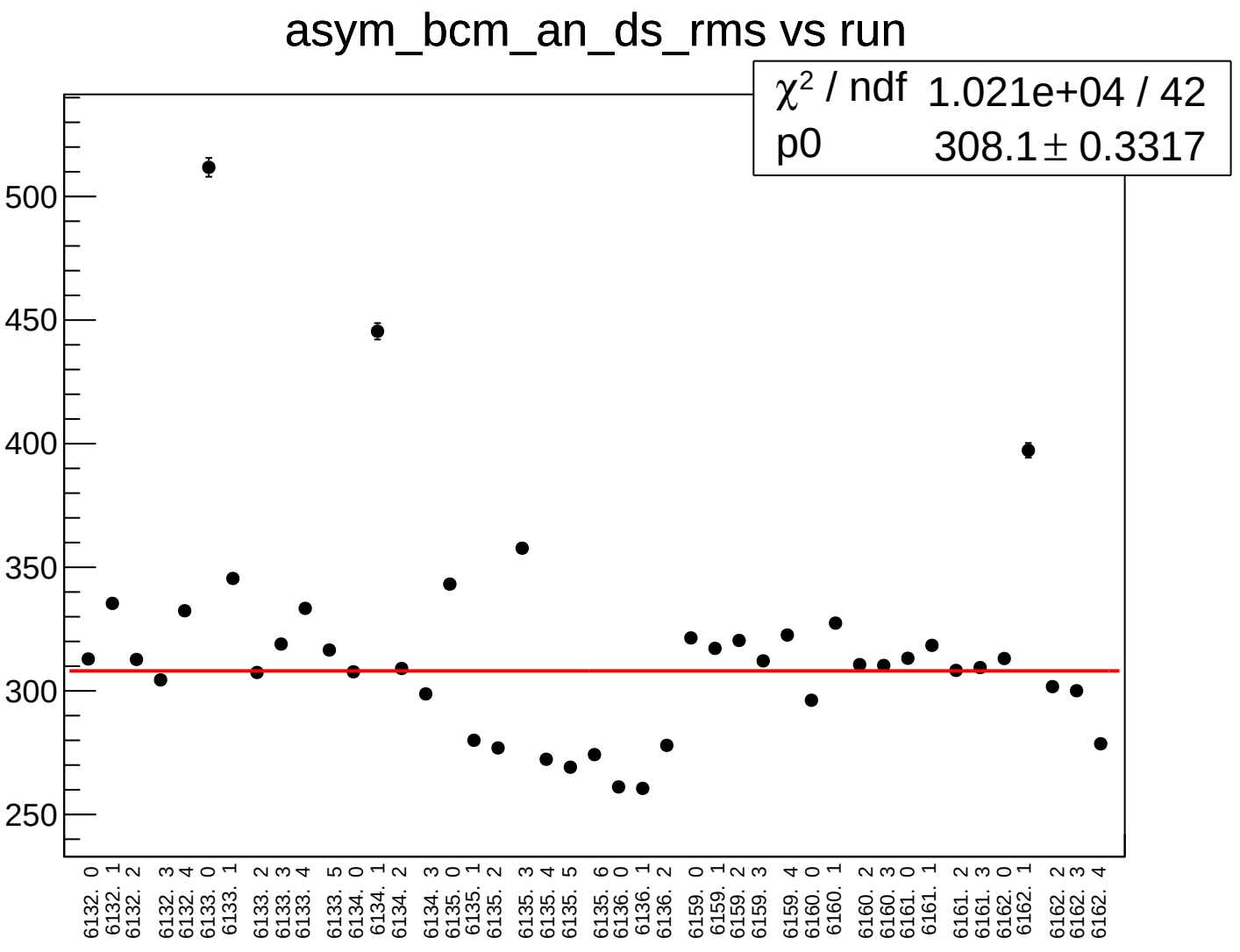

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

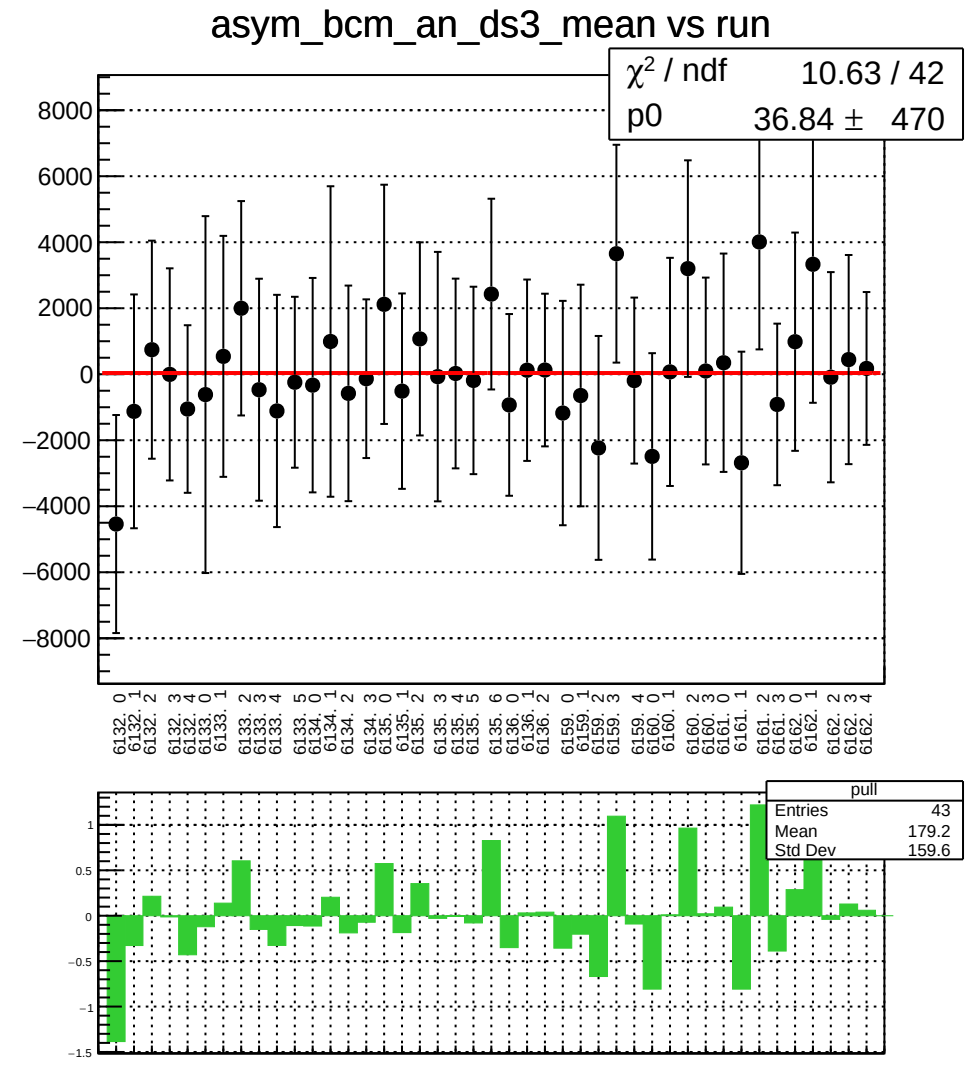

yield_bpm0i07WS_rms vs run
χ² / ndf 1.161e+04 / 42
p0 162 ± 0.1745
280
260
240
220
200
180
160
140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

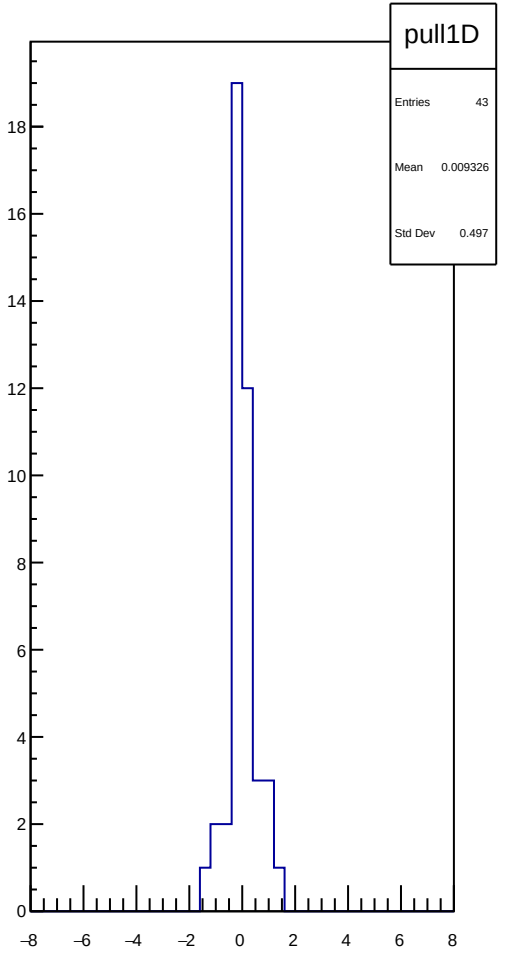

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.166e+05 / 42
p0 1.281e+05 ± 0.2045
128.3
128.2
128.1
128
127.9
127.8
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −124.8
Std Dev 147.7
150
100
50
0
−50
−100
−150
pull1D
Entries 43
Mean −2.77
Std Dev 4.597
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

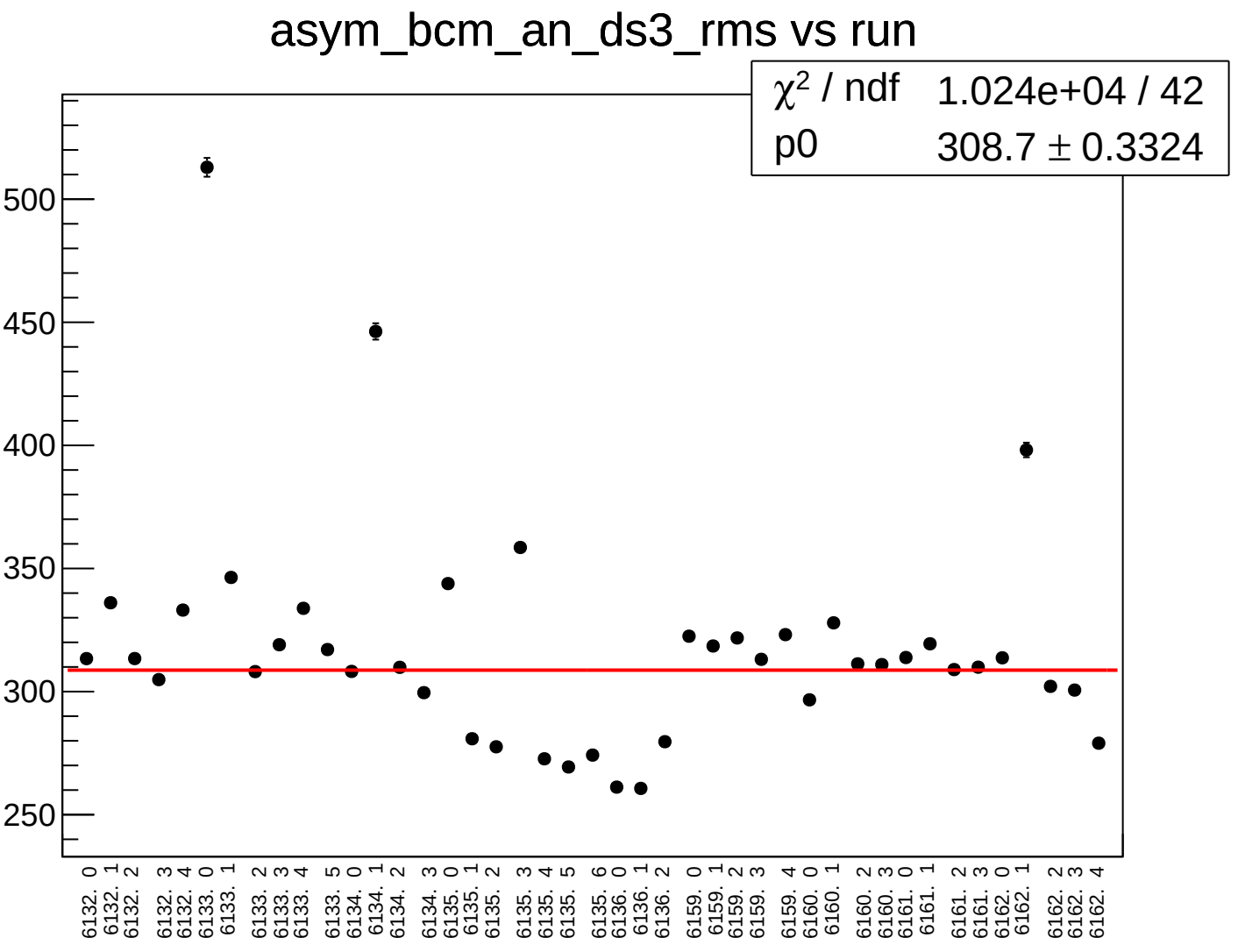

yield_bpm0l01WS_rms vs run
χ² / ndf 4594 / 42
p0 134.8 ± 0.1446
170
160
150
140
130
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

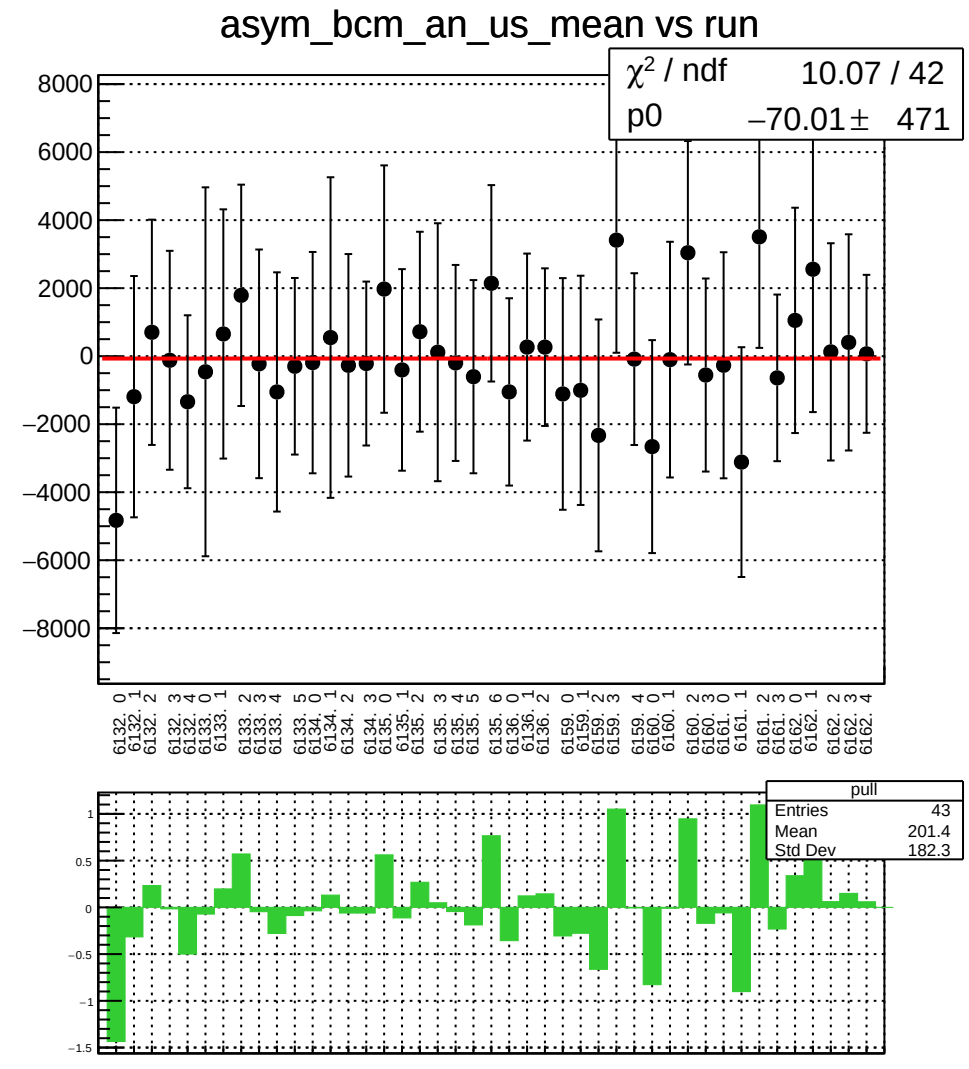

asym_bcm_an_ds_mean vs run
χ² / ndf 10.78 / 42
p0 35.64 ± 469.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 165.7
Std Dev 146.3
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.009793
Std Dev 0.5005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

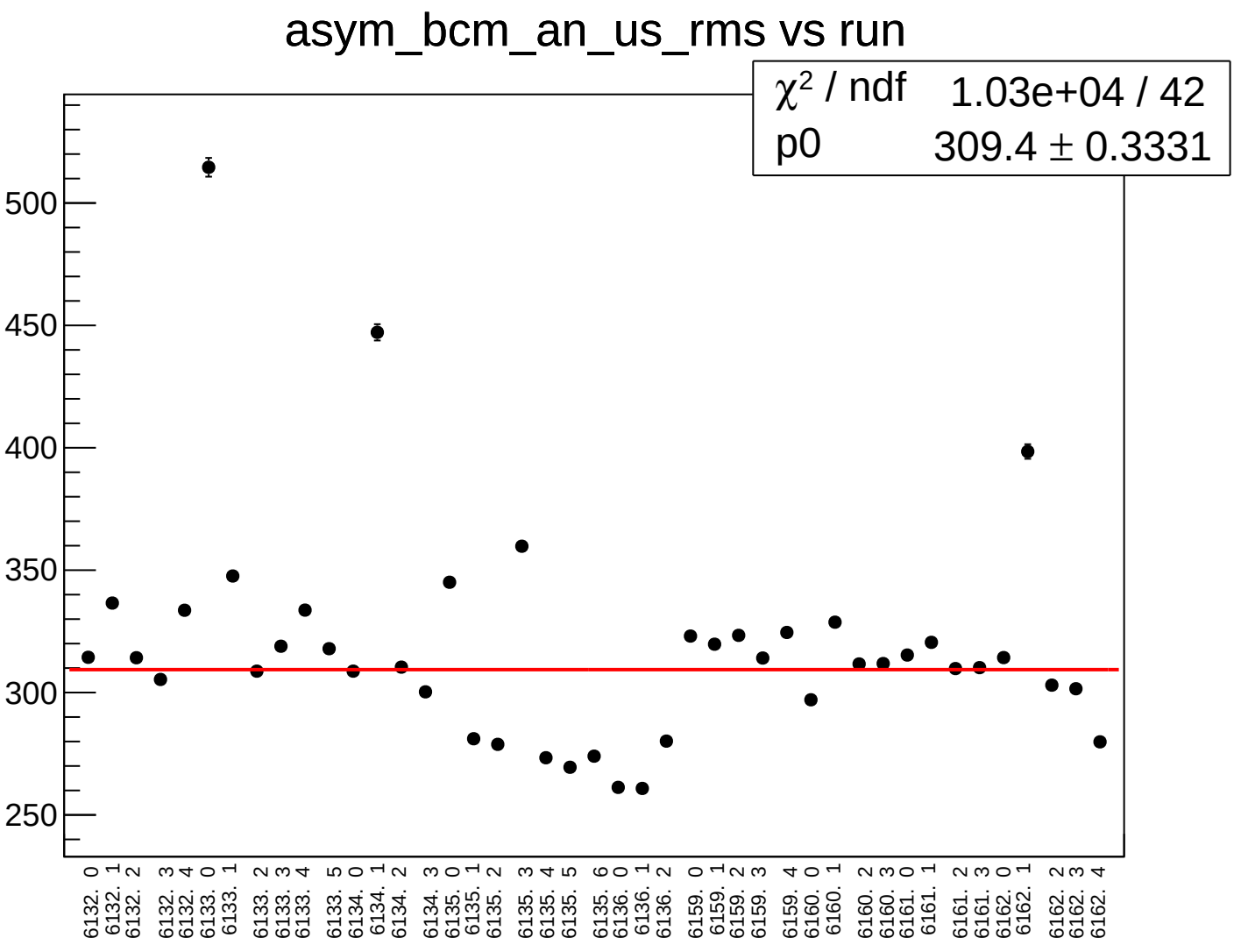

asym_bcm_an_ds_rms vs run
χ² / ndf 1.021e+04 / 42
p0 308.1 ± 0.3317
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

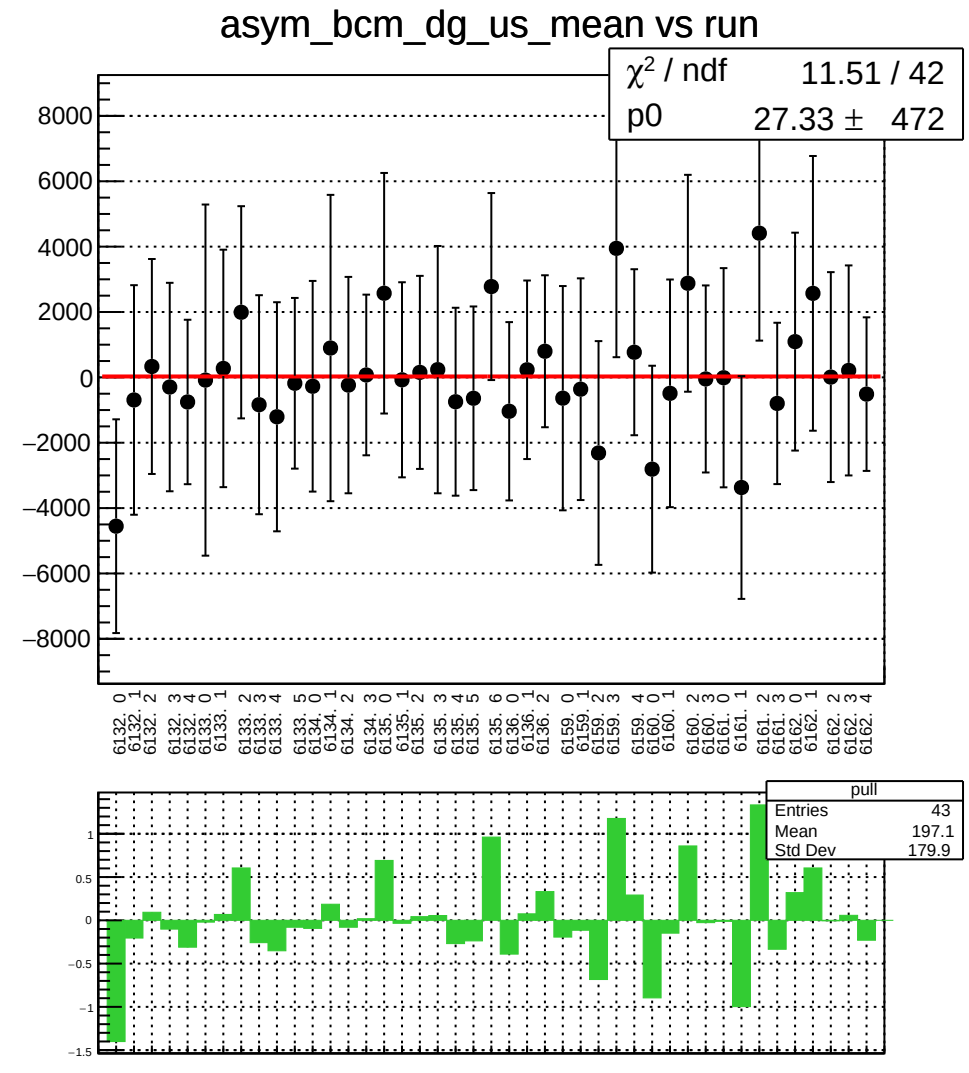

asym_bcm_an_ds3_mean vs run
χ² / ndf 10.63 / 42
p0 36.84 ± 470
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 179.2
Std Dev 159.6
1
0.5
0
−0.5
−1
−1.5

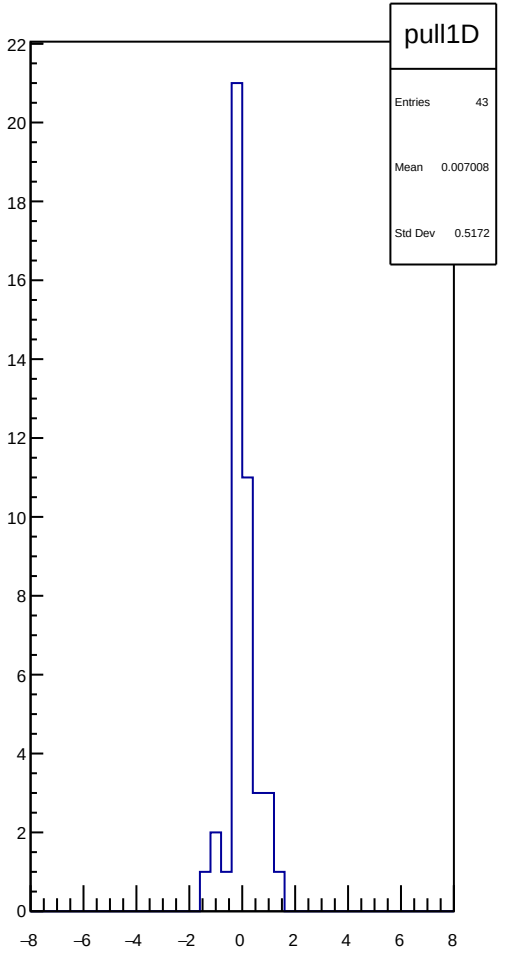

pull1D
Entries 43
Mean 0.009326
Std Dev 0.497
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

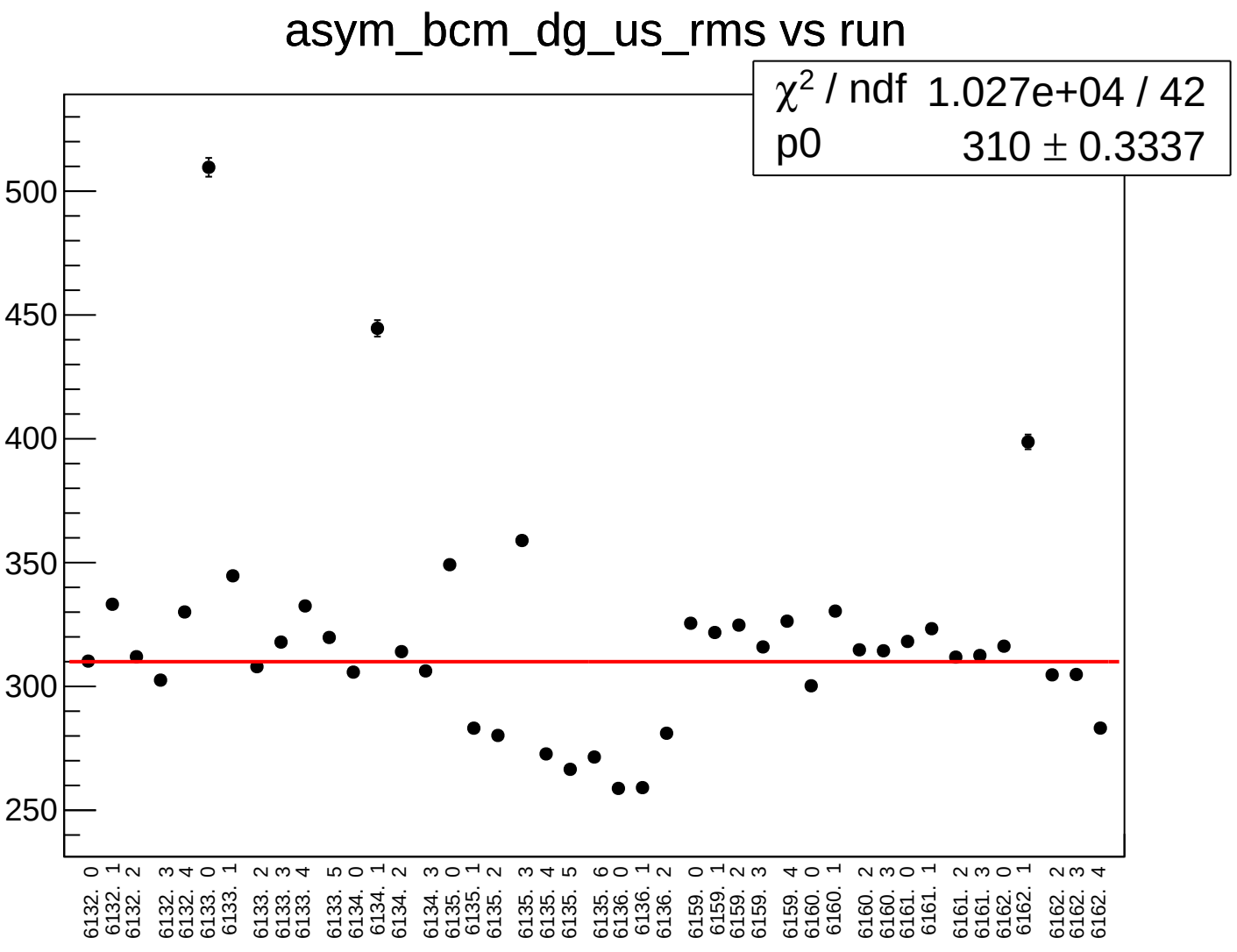

asym_bcm_an_ds3_rms vs run
χ² / ndf 1.024e+04 / 42
p0 308.7 ± 0.3324
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

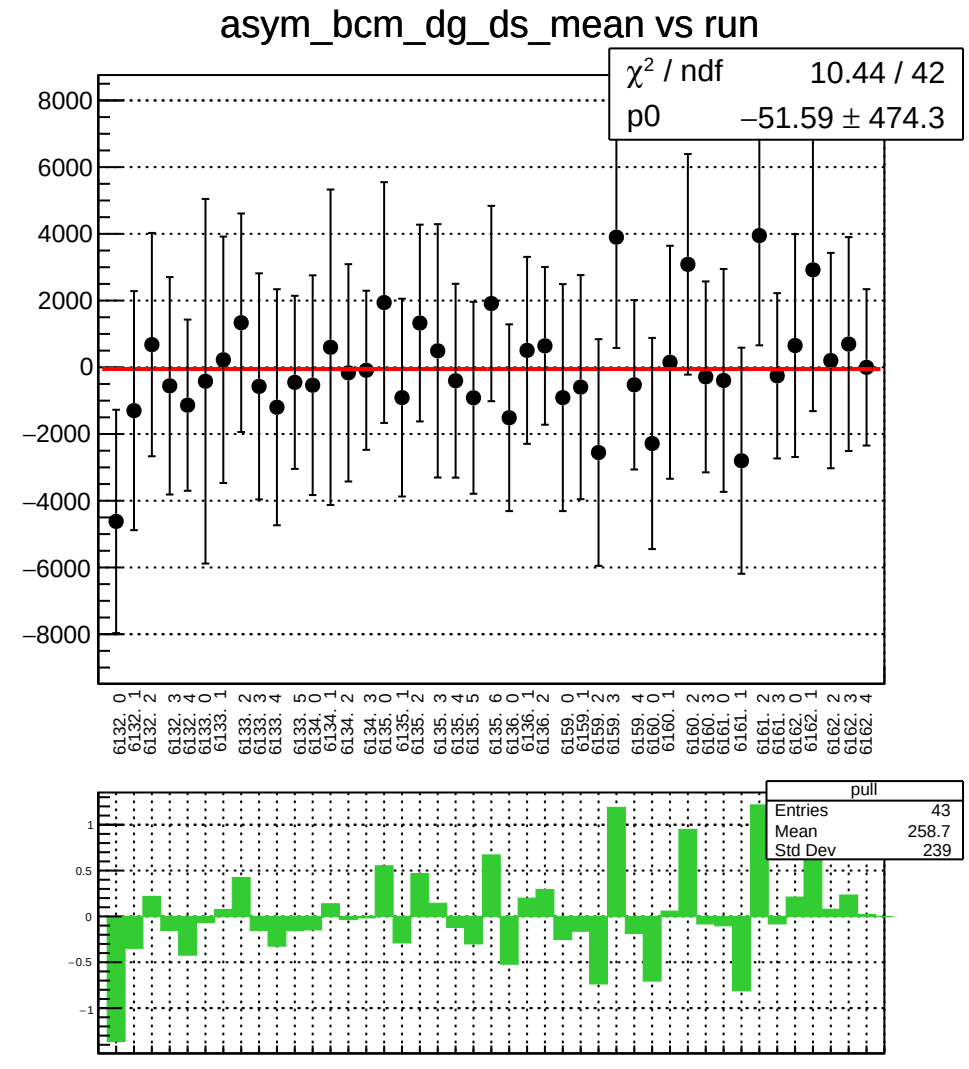

asym_bcm_an_us_mean vs run
χ² / ndf 10.07 / 42
p0 −70.01 ± 471
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 201.4
Std Dev 182.3
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.00723
Std Dev 0.4839
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

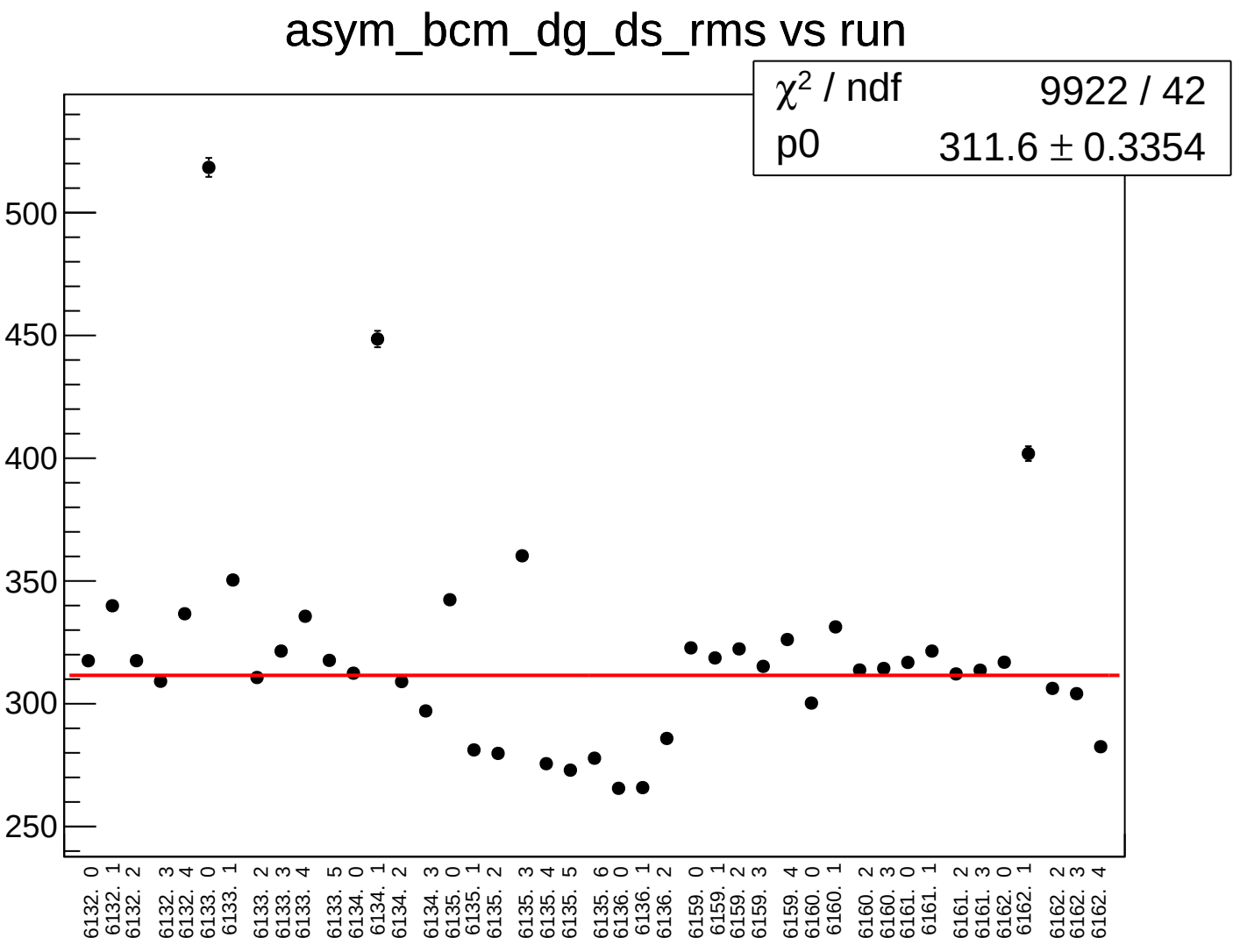

asym_bcm_an_us_rms vs run
χ² / ndf 1.03e+04 / 42
p0 309.4 ± 0.3331
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

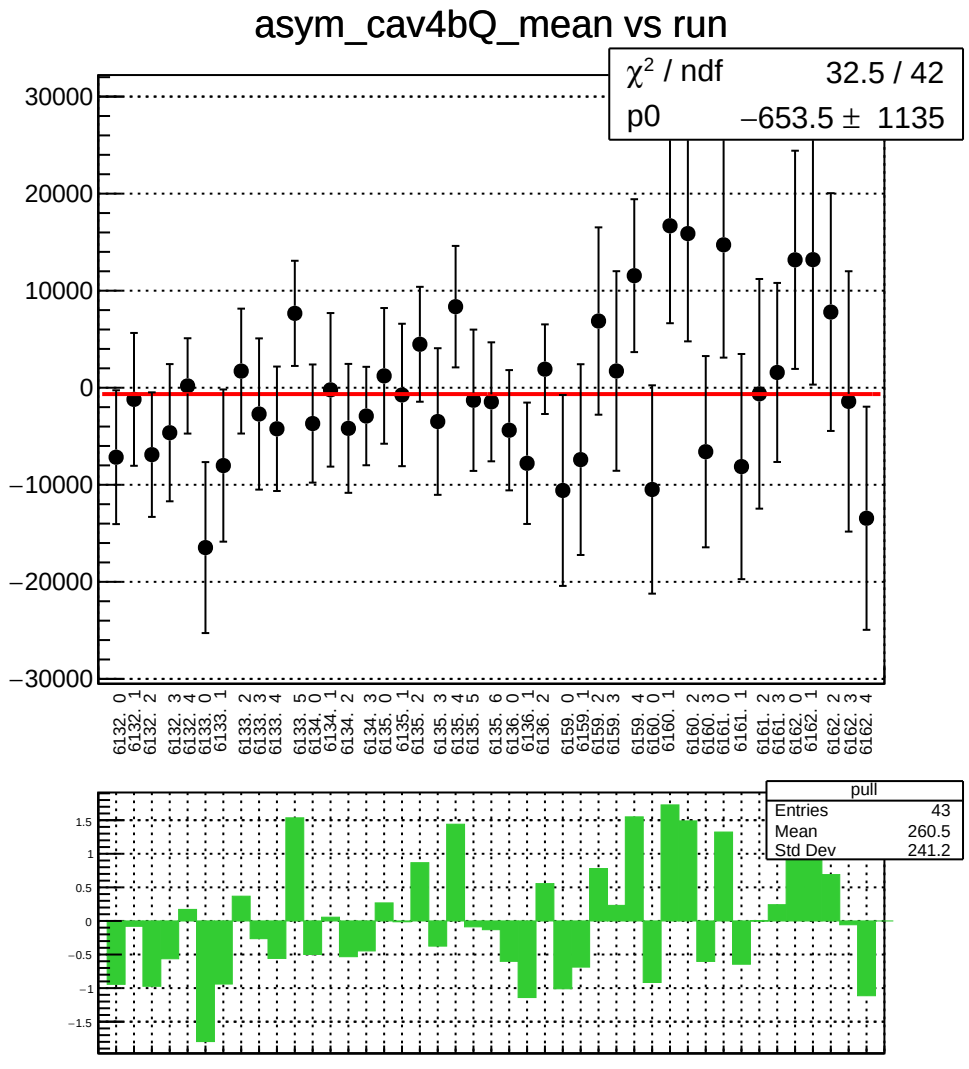

asym_bcm_dg_us_mean vs run
χ² / ndf 11.51 / 42
p0 27.33 ± 472
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 197.1
Std Dev 179.9
1
0.5
0
−0.5
−1
−1.5

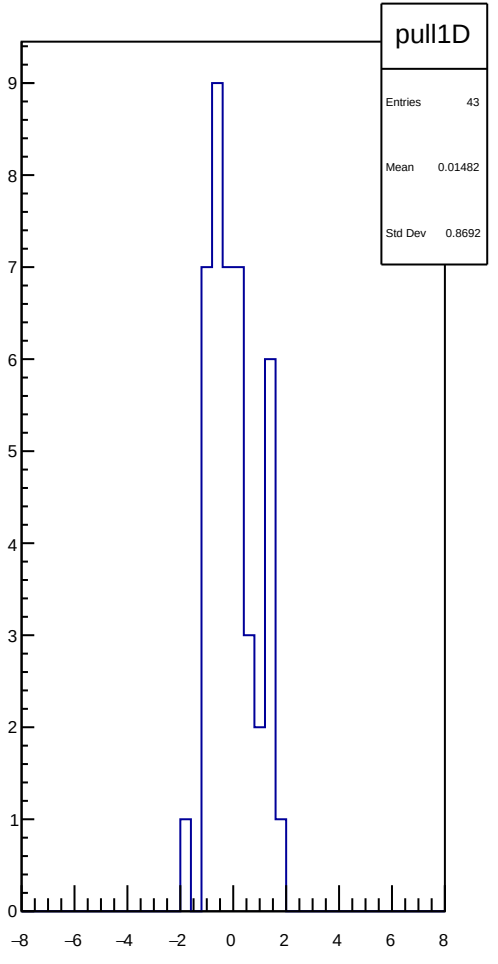

pull1D
Entries 43
Mean 0.007008
Std Dev 0.5172
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

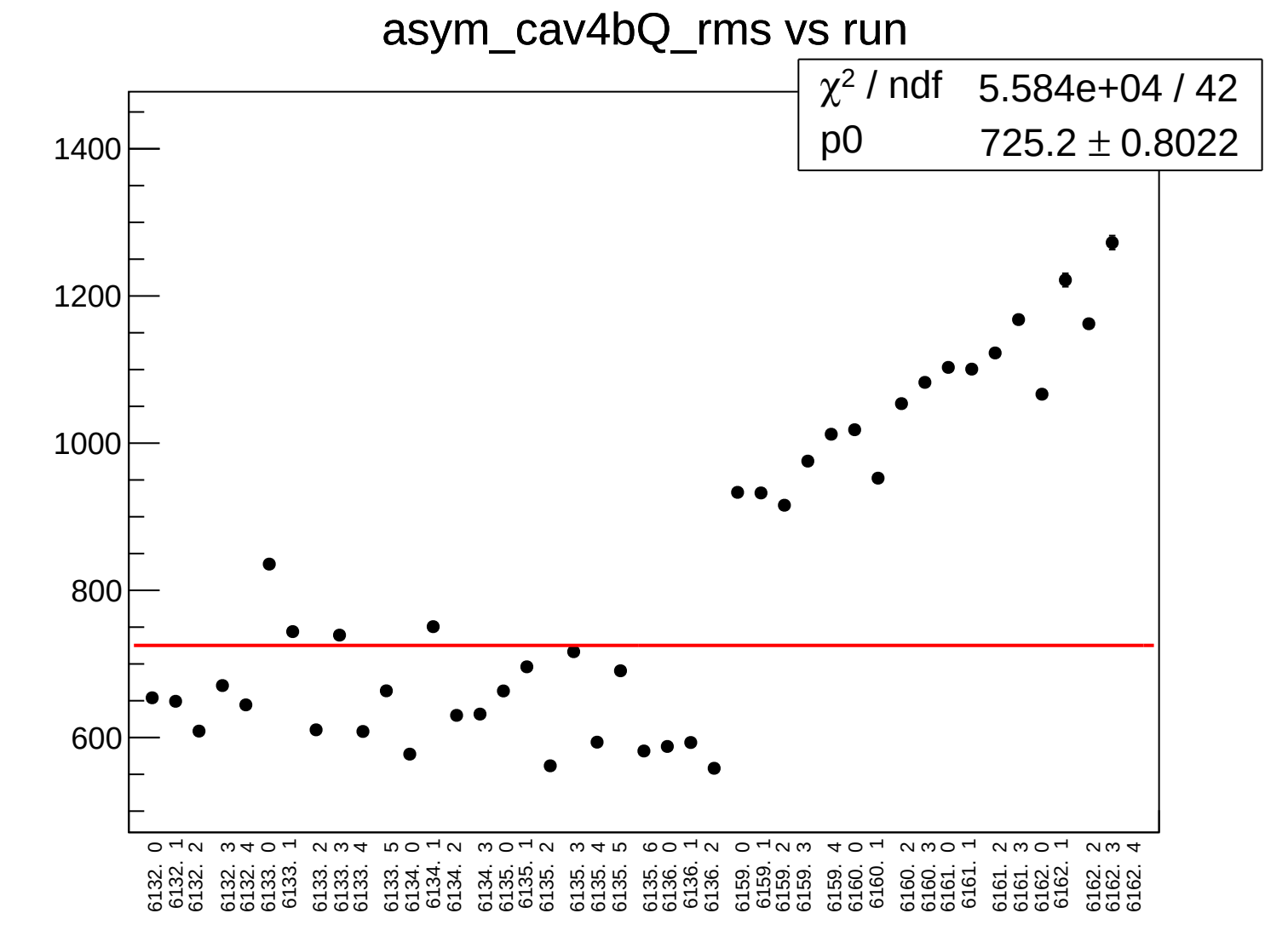

asym_bcm_dg_us_rms vs run
χ² / ndf 1.027e+04 / 42
p0 310 ± 0.3337
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

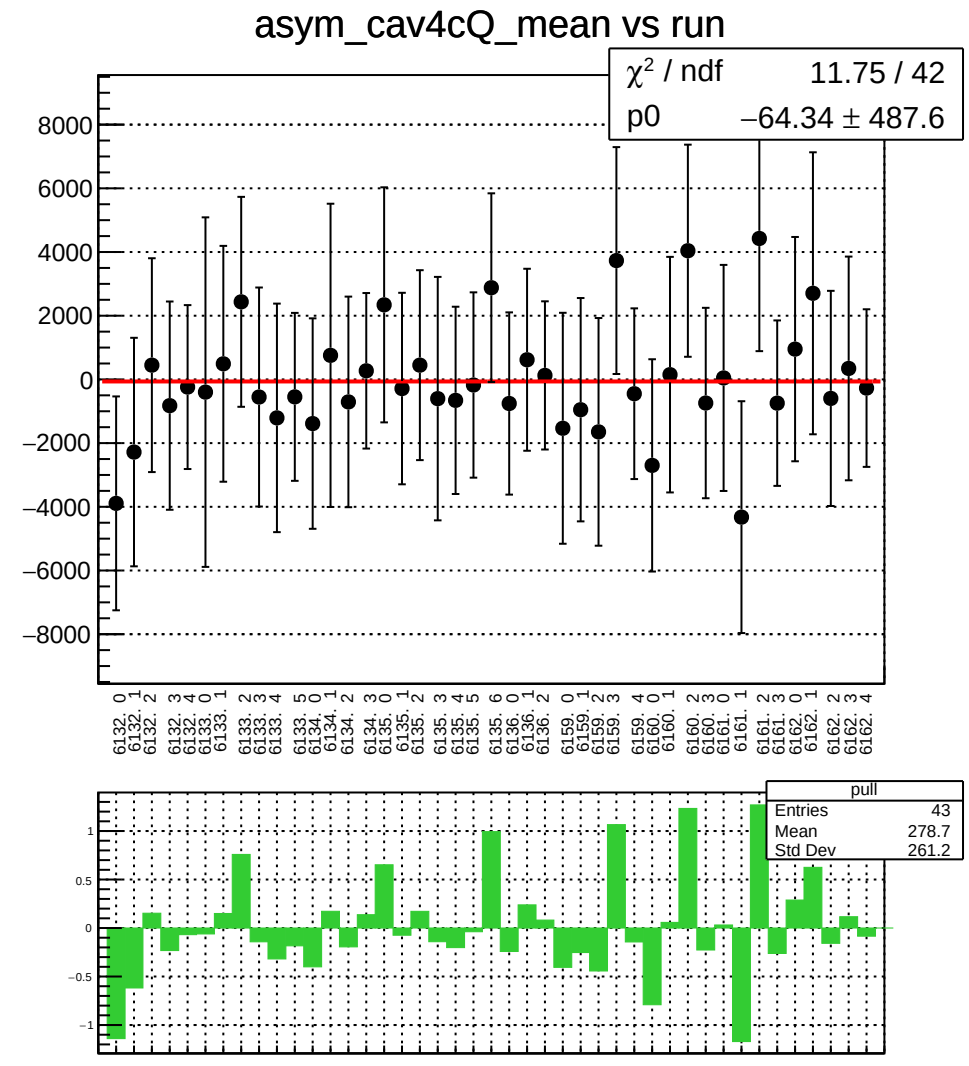

asym_bcm_dg_ds_mean vs run
χ² / ndf 10.44 / 42
p0 −51.59 ± 474.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 258.7
Std Dev 239
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.007071
Std Dev 0.4927
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

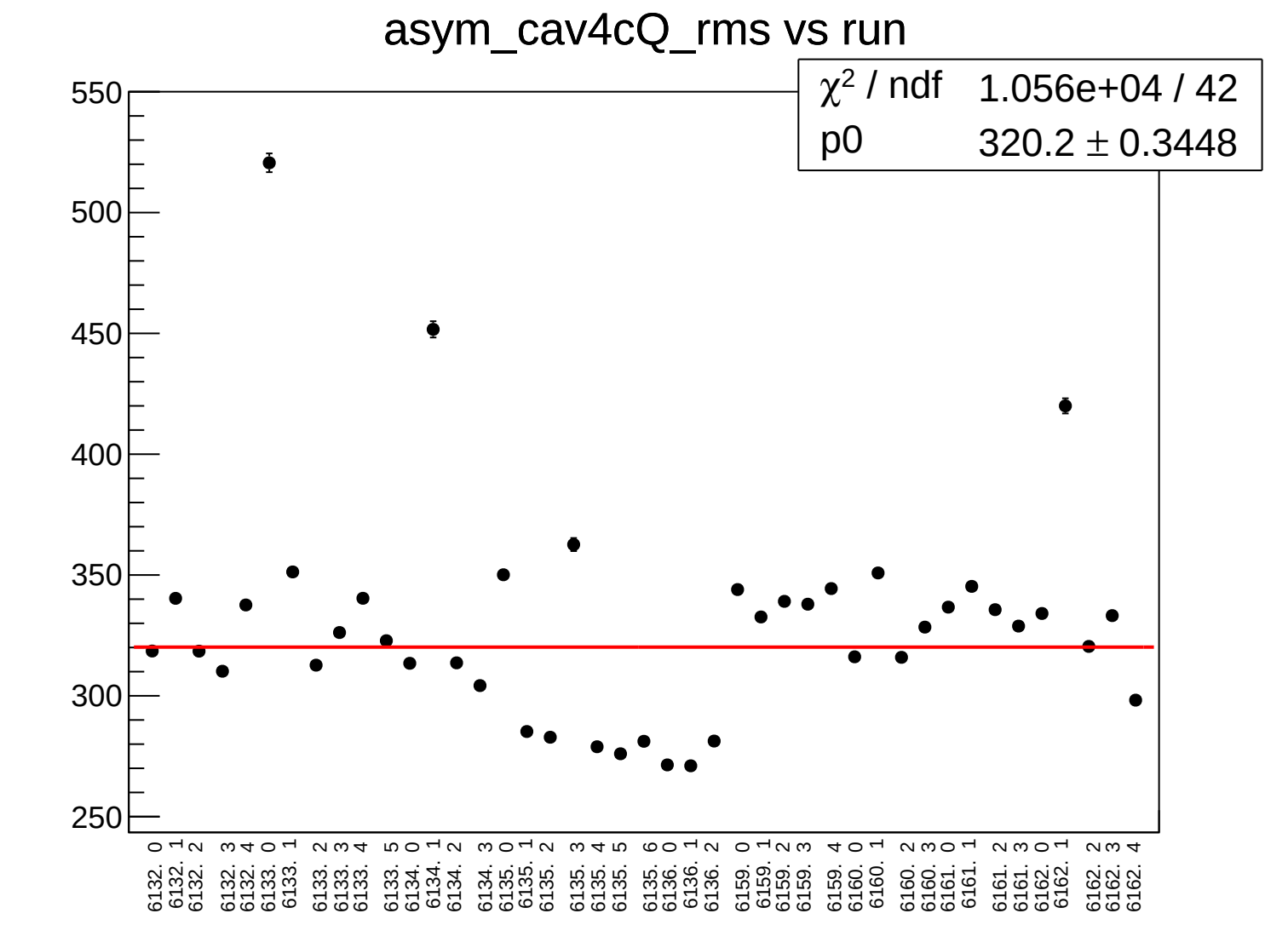

asym_bcm_dg_ds_rms vs run
χ² / ndf 9922 / 42
p0 311.6 ± 0.3354
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

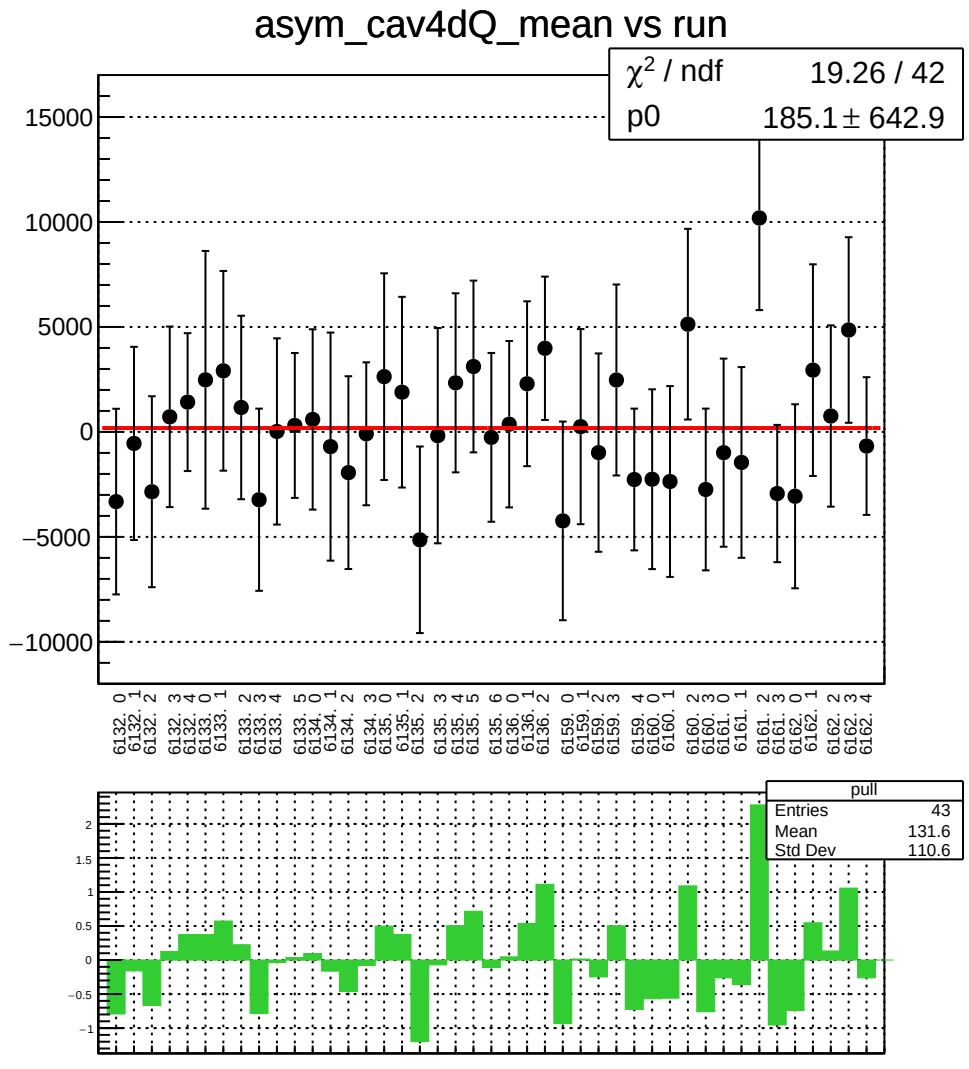

asym_cav4bQ_mean vs run
χ² / ndf 32.5 / 42
p0 −653.5 ± 1135
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 260.5
Std Dev 241.2
1.5
1
0.5
0
−0.5
−1
−1.5

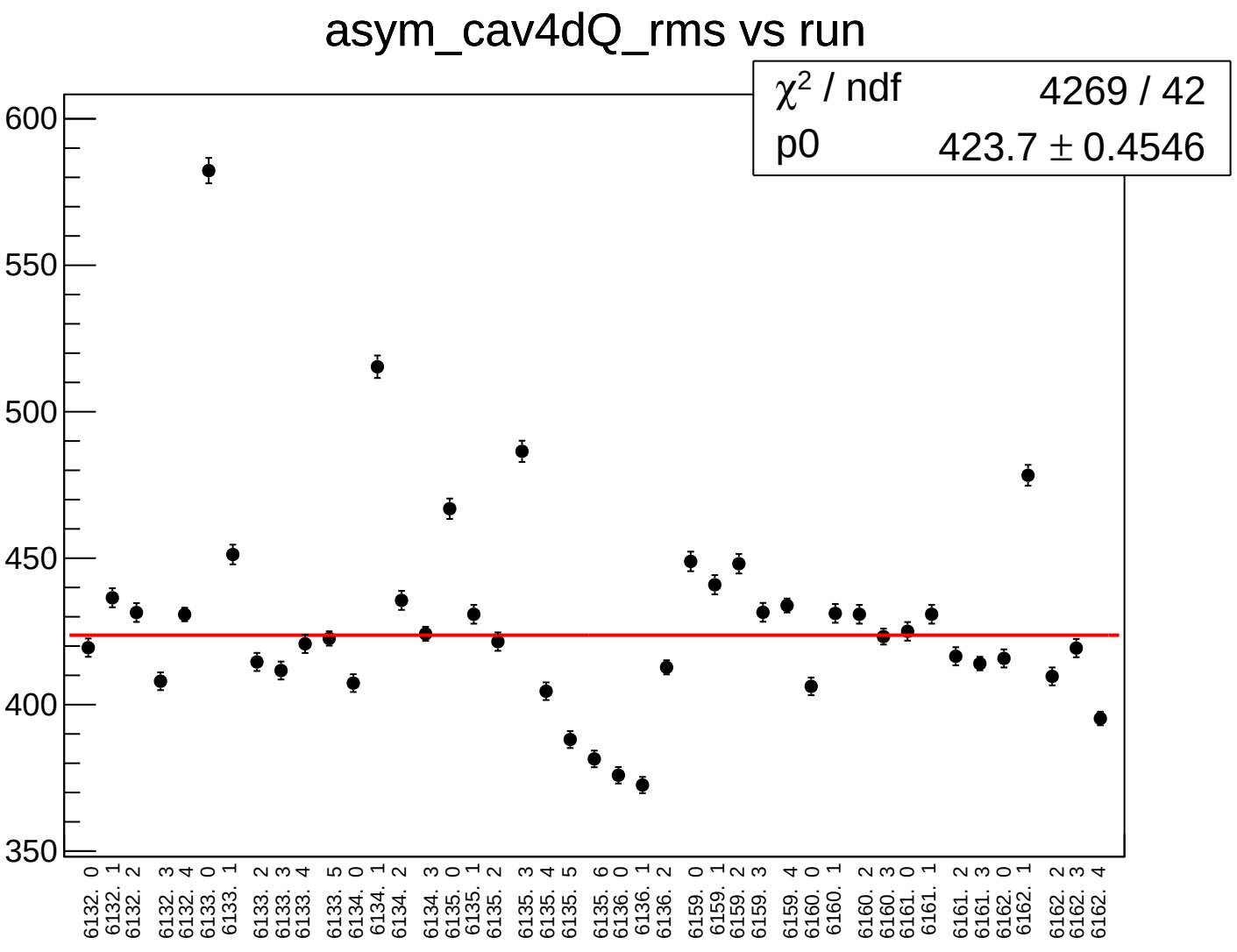

pull1D
Entries 43
Mean 0.01482
Std Dev 0.8692
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

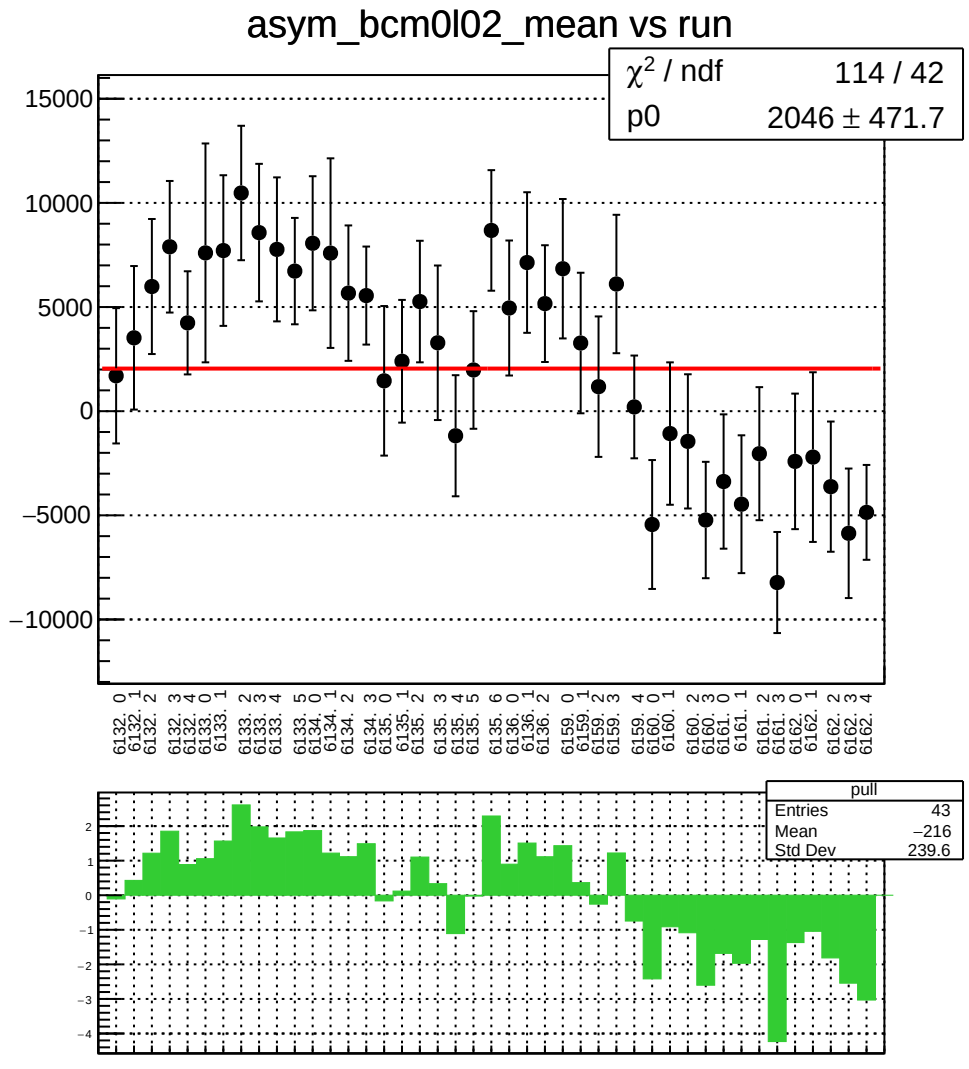

asym_cav4bQ_rms vs run
χ² / ndf 5.584e+04 / 42
p0 725.2 ± 0.8022
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

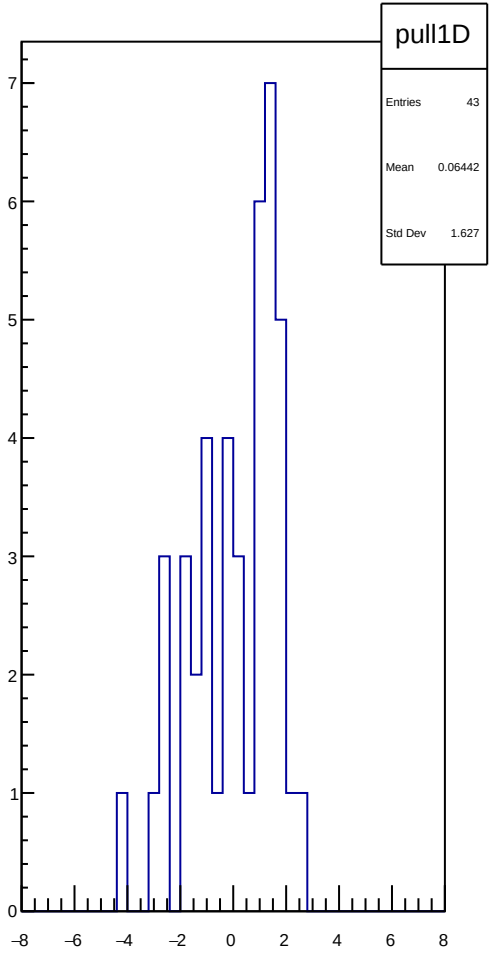

asym_cav4cQ_mean vs run
χ² / ndf 11.75 / 42
p0 −64.34 ± 487.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 278.7
Std Dev 261.2
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.004735
Std Dev 0.5227
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

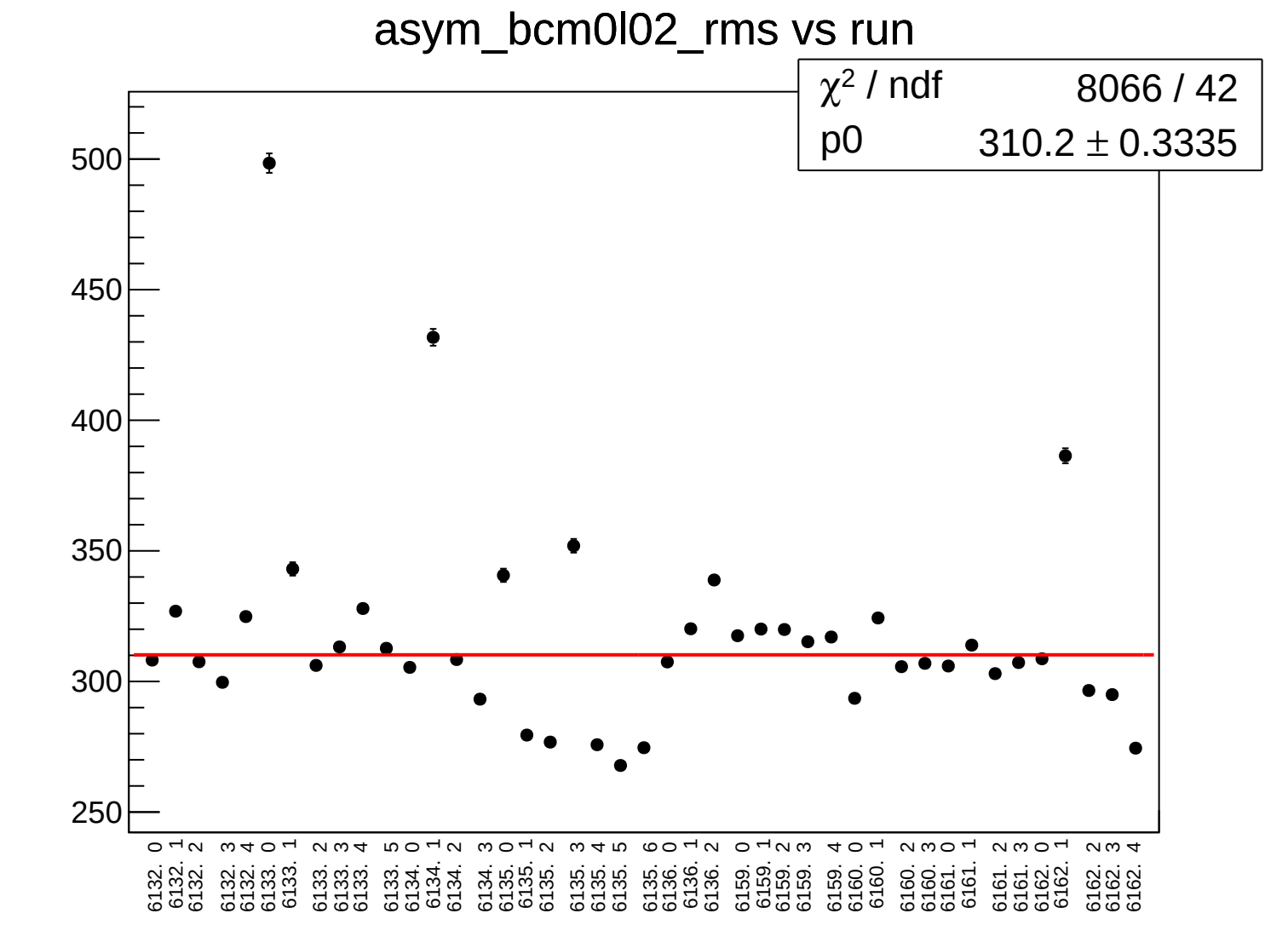

asym_cav4cQ_rms vs run
χ² / ndf 1.056e+04 / 42
p0 320.2 ± 0.3448
550
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

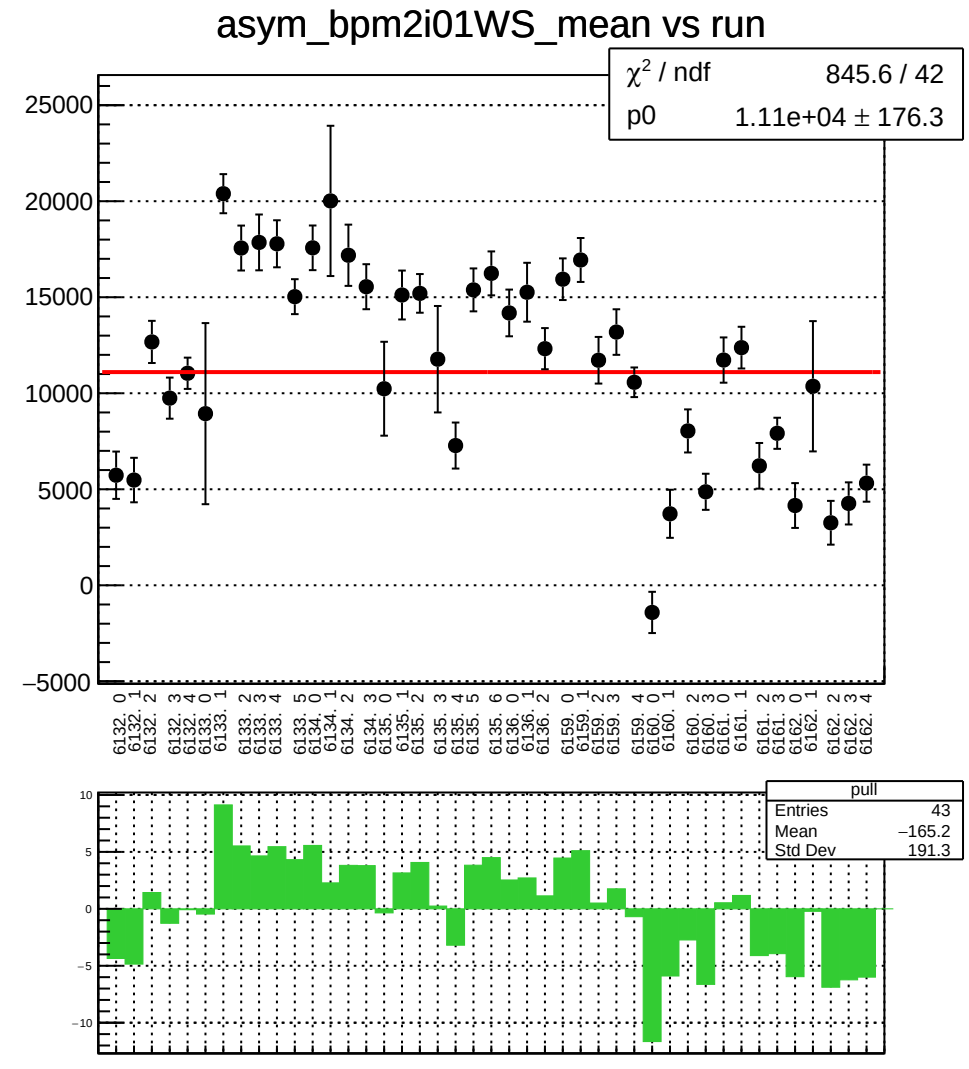

asym_cav4dQ_mean vs run
χ² / ndf 19.26 / 42
p0 185.1 ± 642.9
15000
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 131.6
Std Dev 110.6
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.00732
Std Dev 0.6693
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

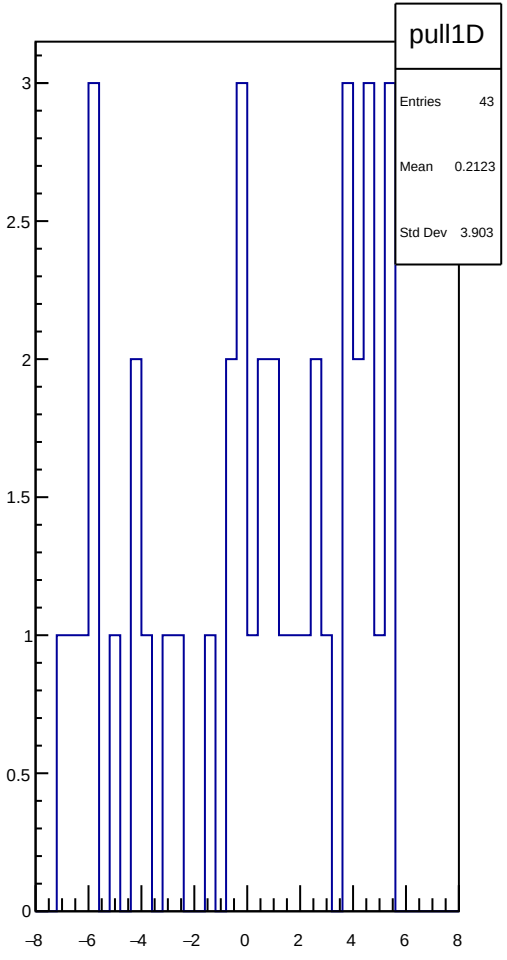

asym_cav4dQ_rms vs run
χ² / ndf 4269 / 42
p0 423.7 ± 0.4546
600
550
500
450
400
350
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

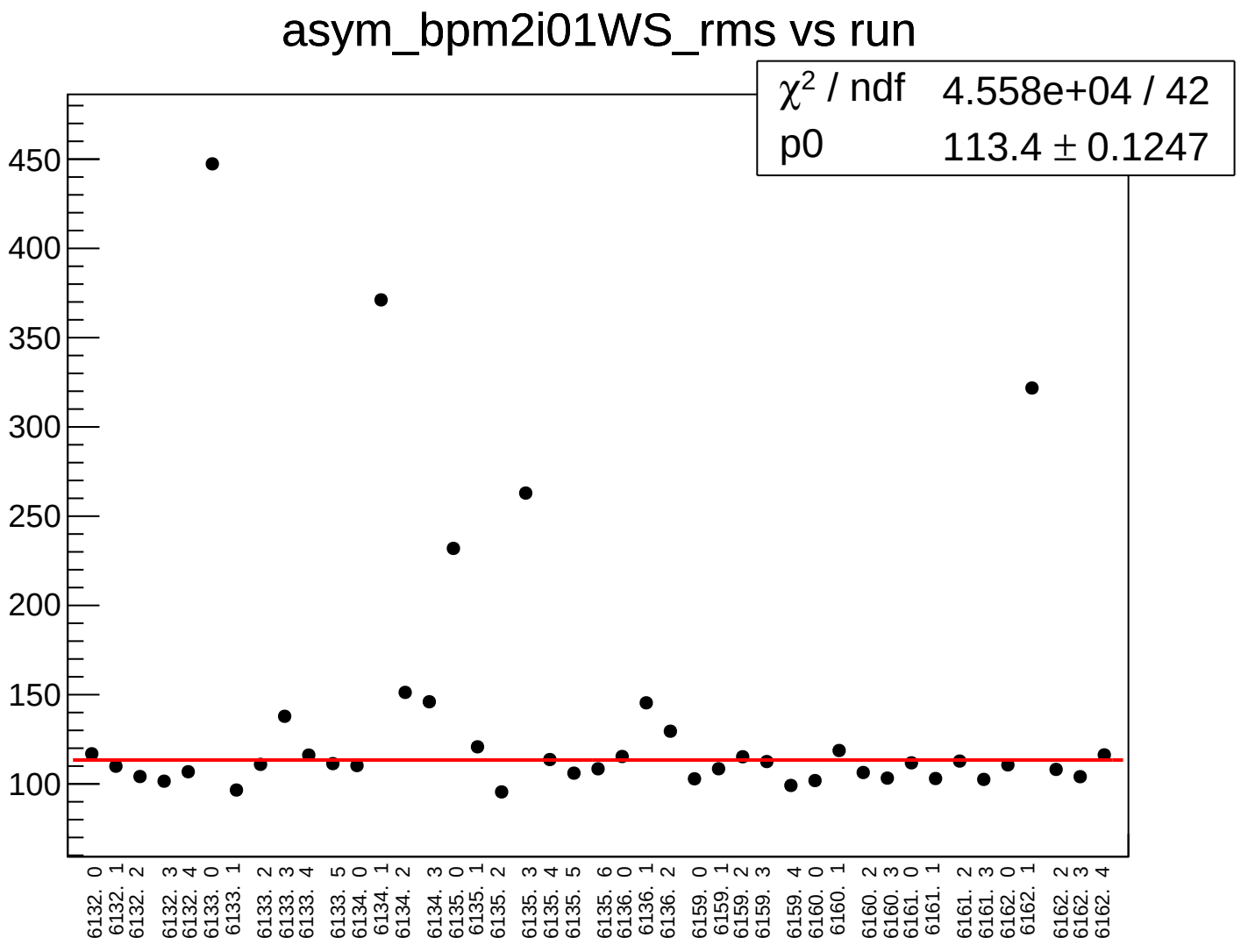

asym_bcm0l02_mean vs run
χ² / ndf 114 / 42
p0 2046 ± 471.7
15000
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −216
Std Dev 239.6
2
1
0
−1
−2
−3
−4

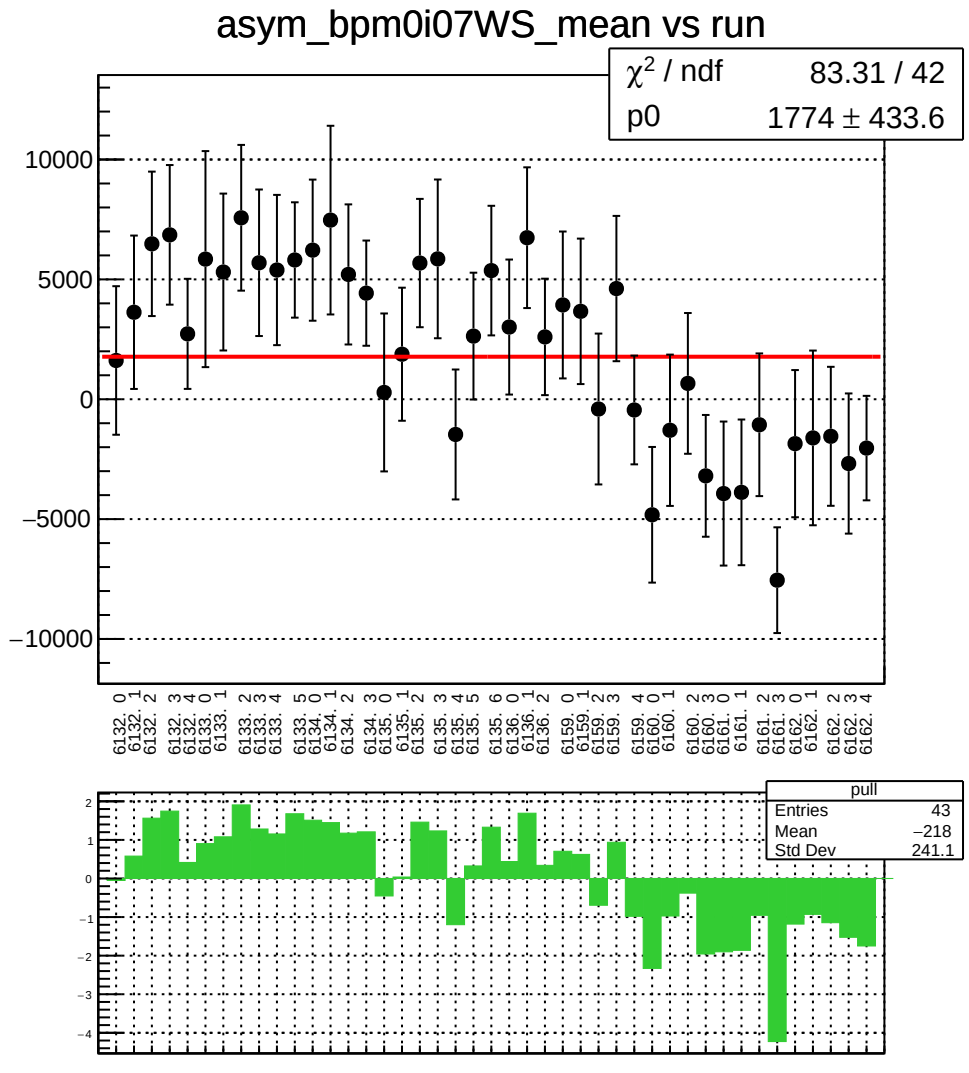

pull1D
Entries 43
Mean 0.06442
Std Dev 1.627
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

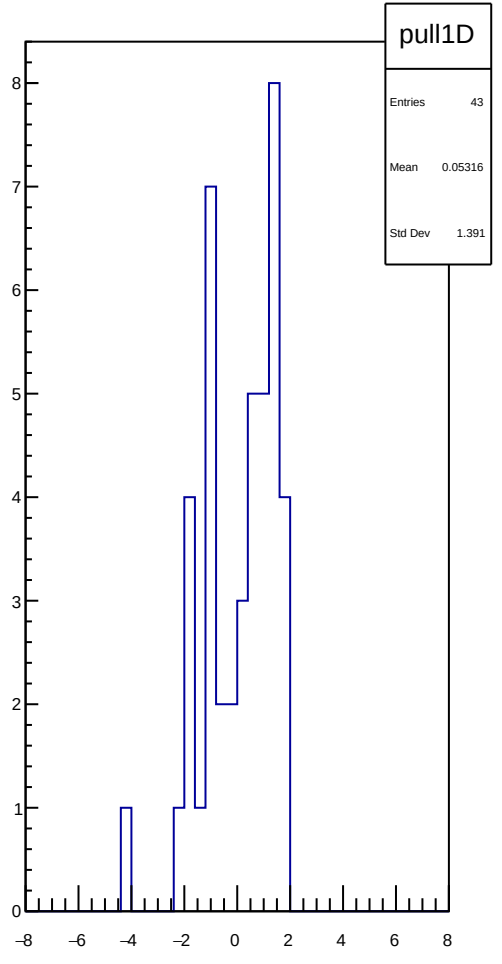

asym_bcm0l02_rms vs run
χ² / ndf 8066 / 42
p0 310.2 ± 0.3335
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

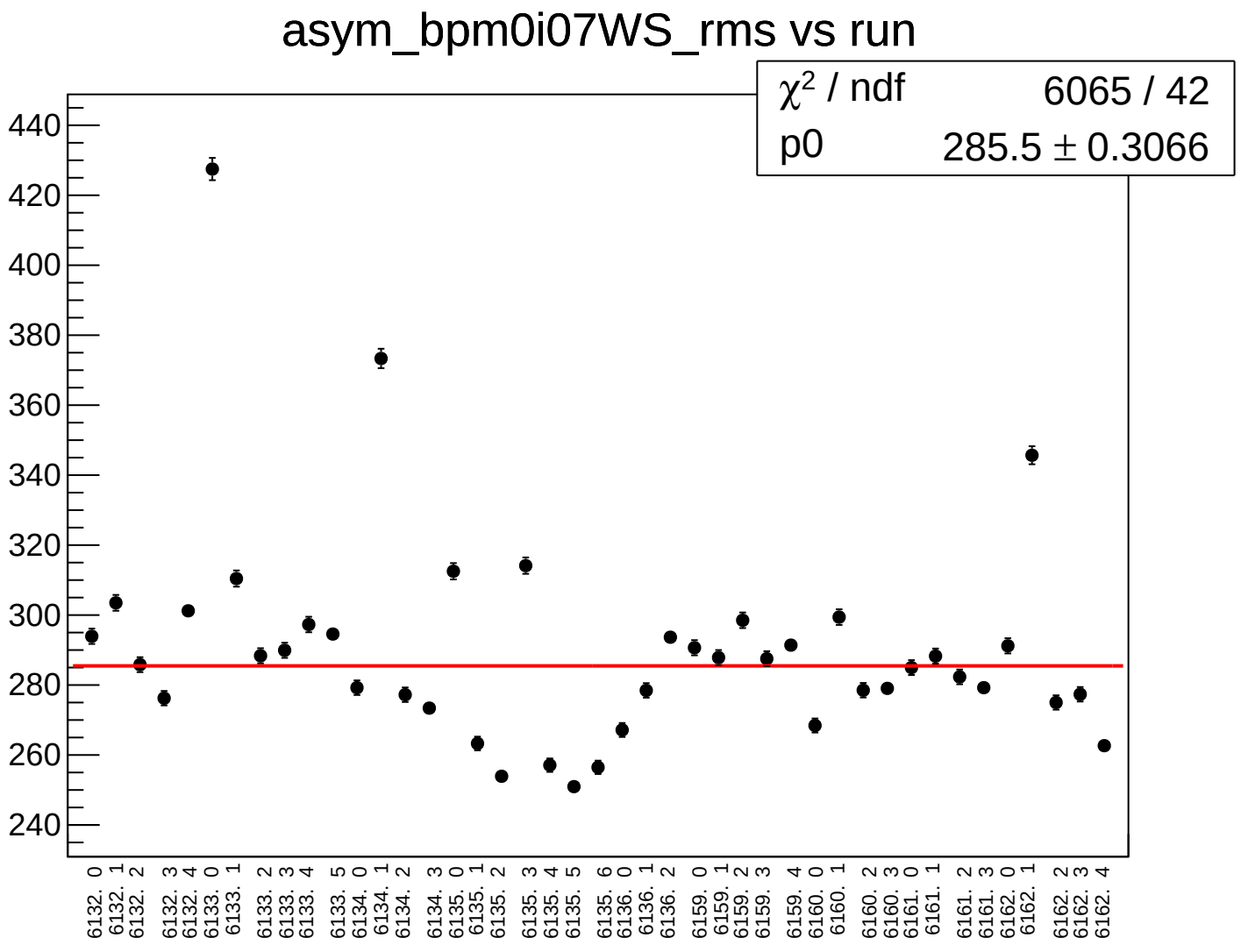

asym_bpm2i01WS_mean vs run
χ² / ndf 845.6 / 42
p0 1.11e+04 ± 176.3
25000
20000
15000
10000
5000
0
−5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −165.2
Std Dev 191.3
10
5
0
−5
−10

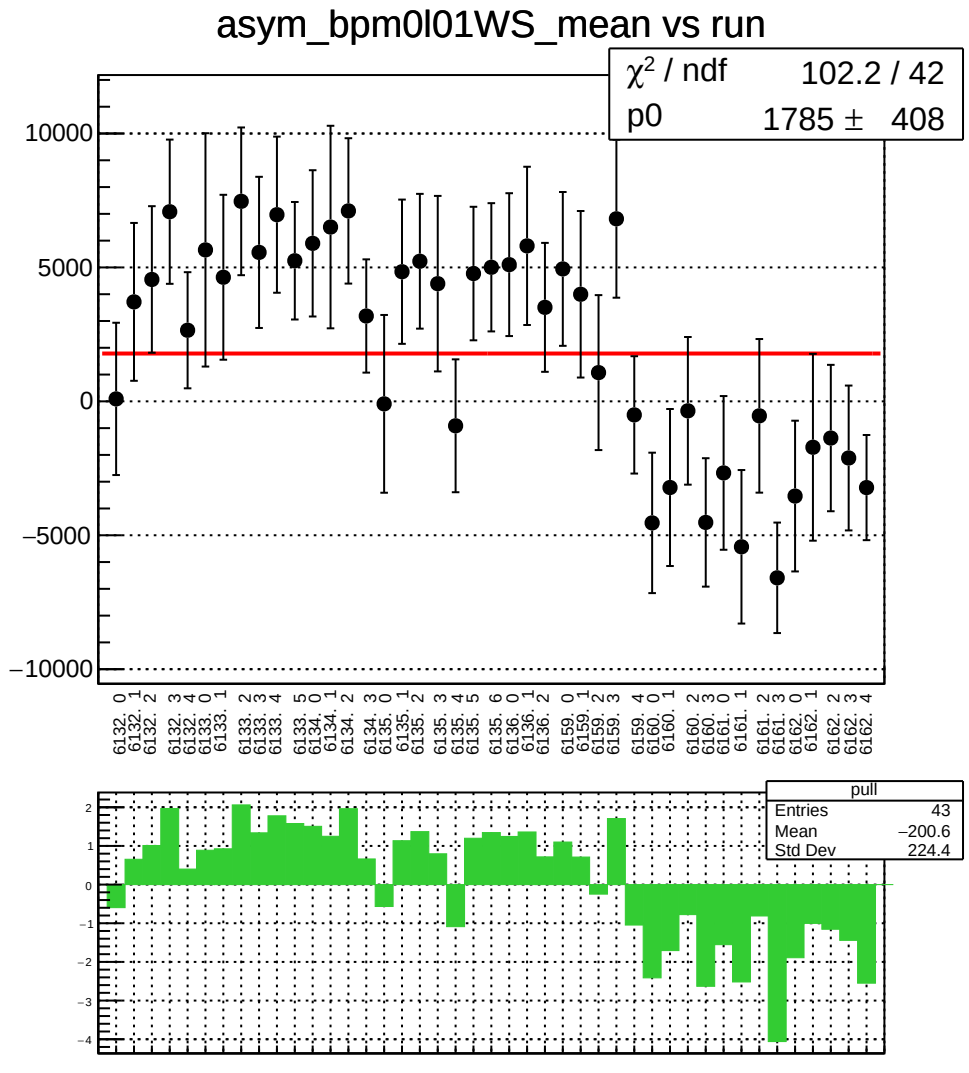

pull1D
Entries 43
Mean 0.2123
Std Dev 3.903
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

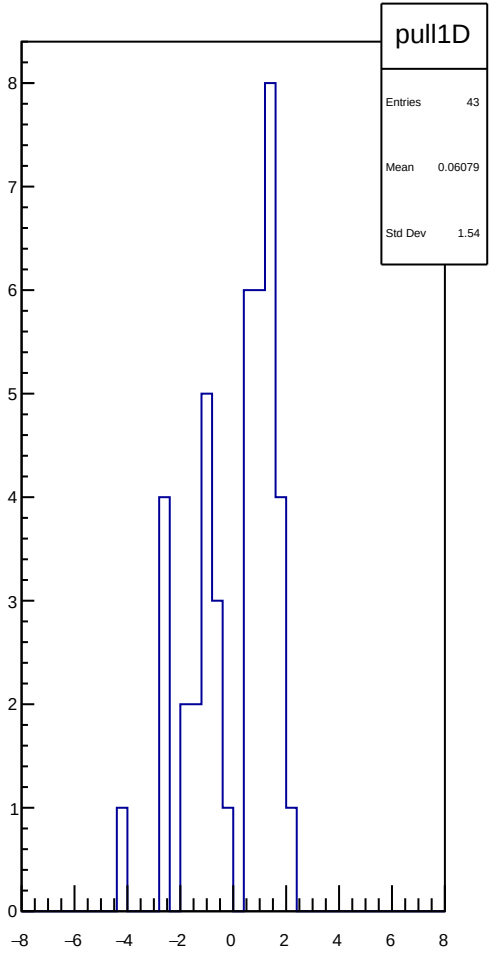

asym_bpm2i01WS_rms vs run
χ² / ndf 4.558e+04 / 42
p0 113.4 ± 0.1247
450
400
350
300
250
200
150
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

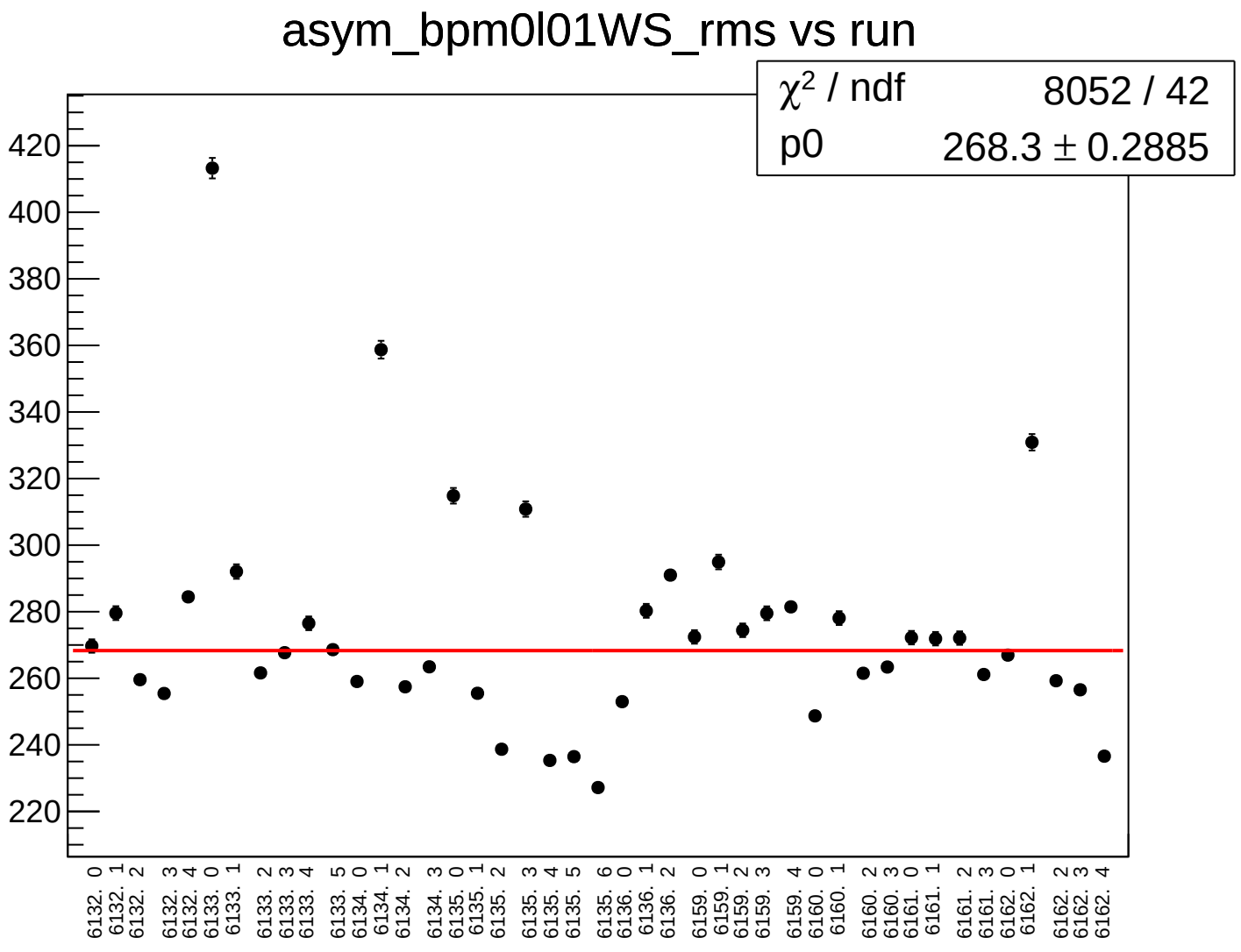

asym_bpm0i07WS_mean vs run
χ² / ndf 83.31 / 42
p0 1774 ± 433.6
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −218
Std Dev 241.1
2
1
0
−1
−2
−3
−4

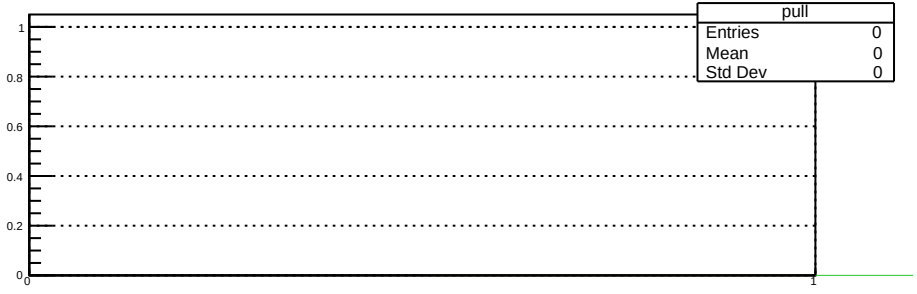

pull1D
Entries 43
Mean 0.05316
Std Dev 1.391
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

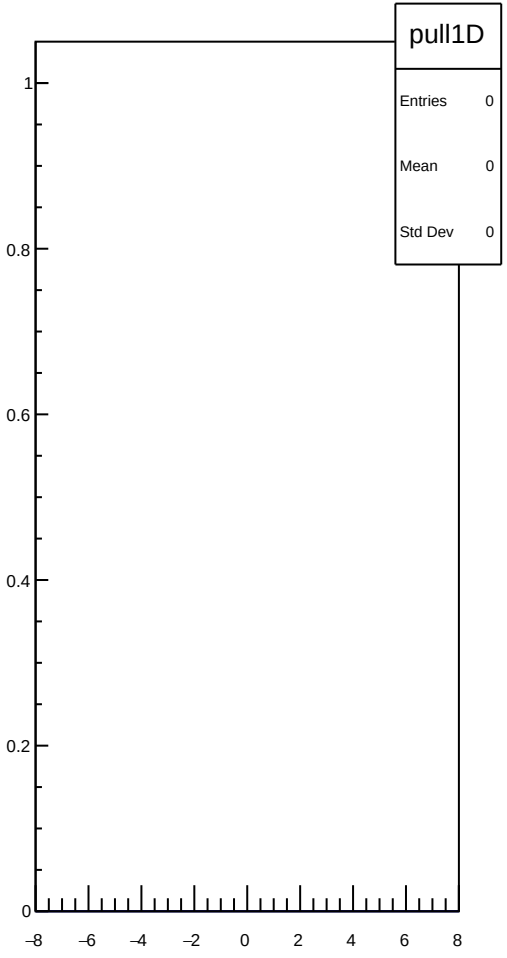

asym_bpm0i07WS_rms vs run
χ² / ndf 6065 / 42
p0 285.5 ± 0.3066
440
420
400
380
360
340
320
300
280
260
240
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

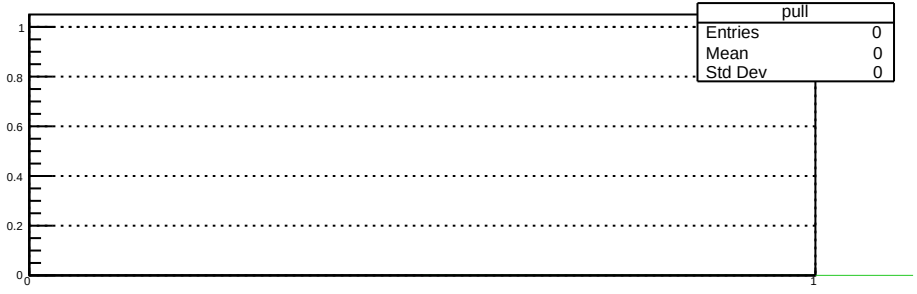

asym_bpm0l01WS_mean vs run
χ² / ndf 102.2 / 42
p0 1785 ± 408
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −200.6
Std Dev 224.4
2
1
0
−1
−2
−3
−4

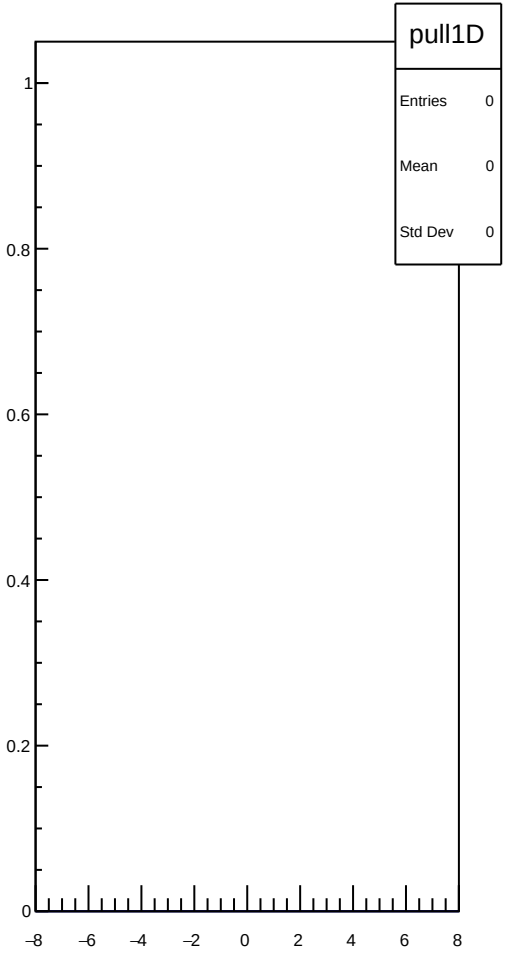

pull1D
Entries 43
Mean 0.06079
Std Dev 1.54
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l01WS_rms vs run
χ² / ndf 8052 / 42
p0 268.3 ± 0.2885
420
400
380
360
340
320
300
280
260
240
220
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1


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


pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1


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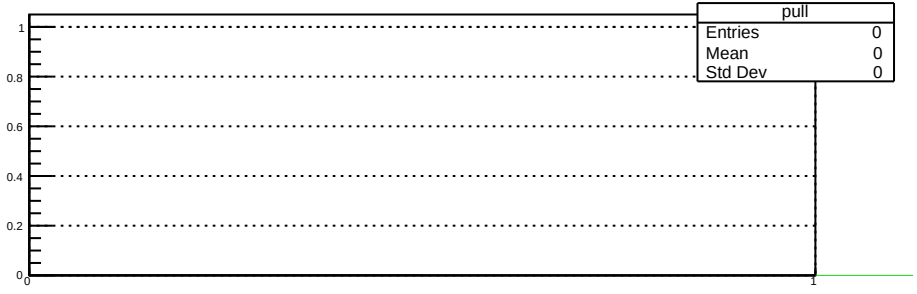
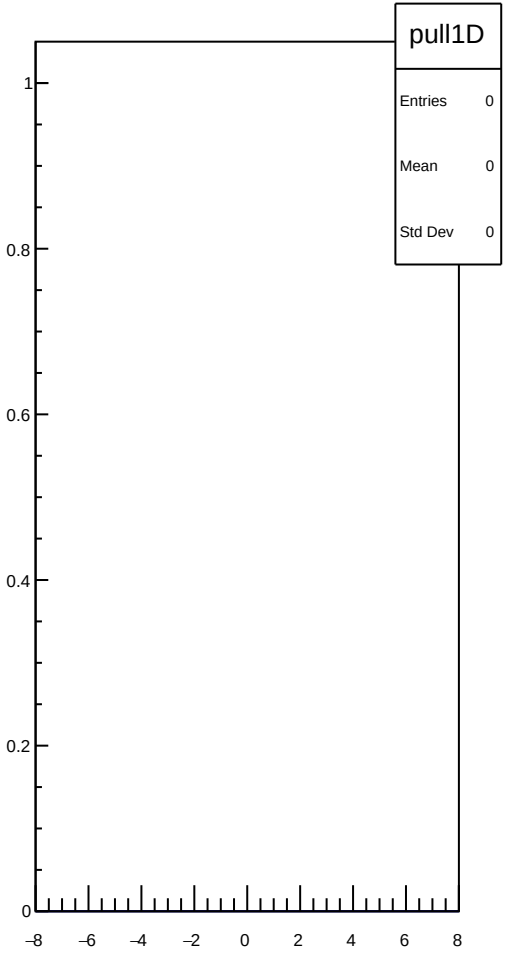
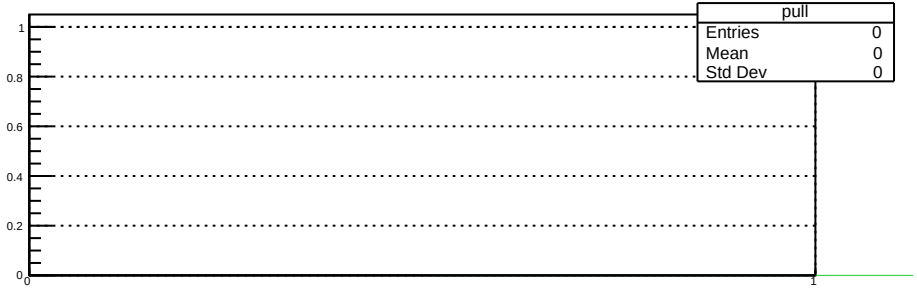
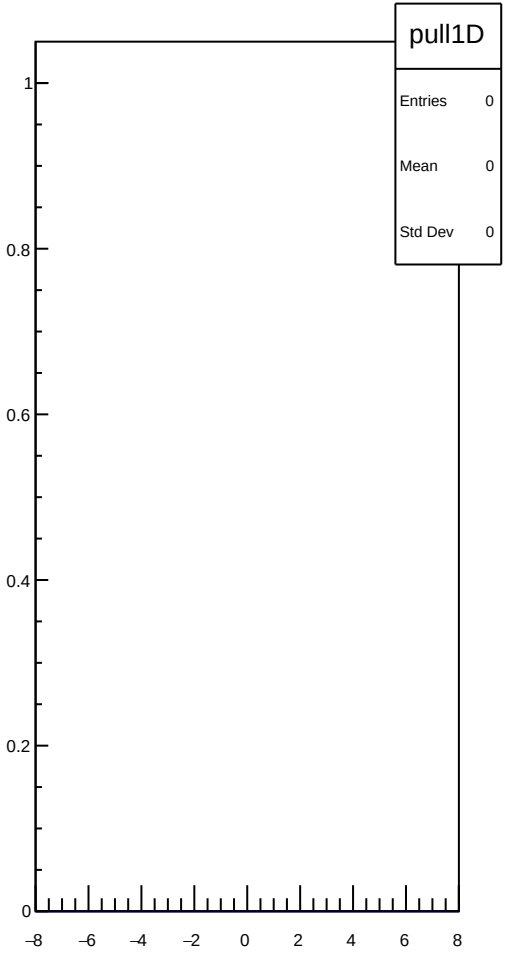
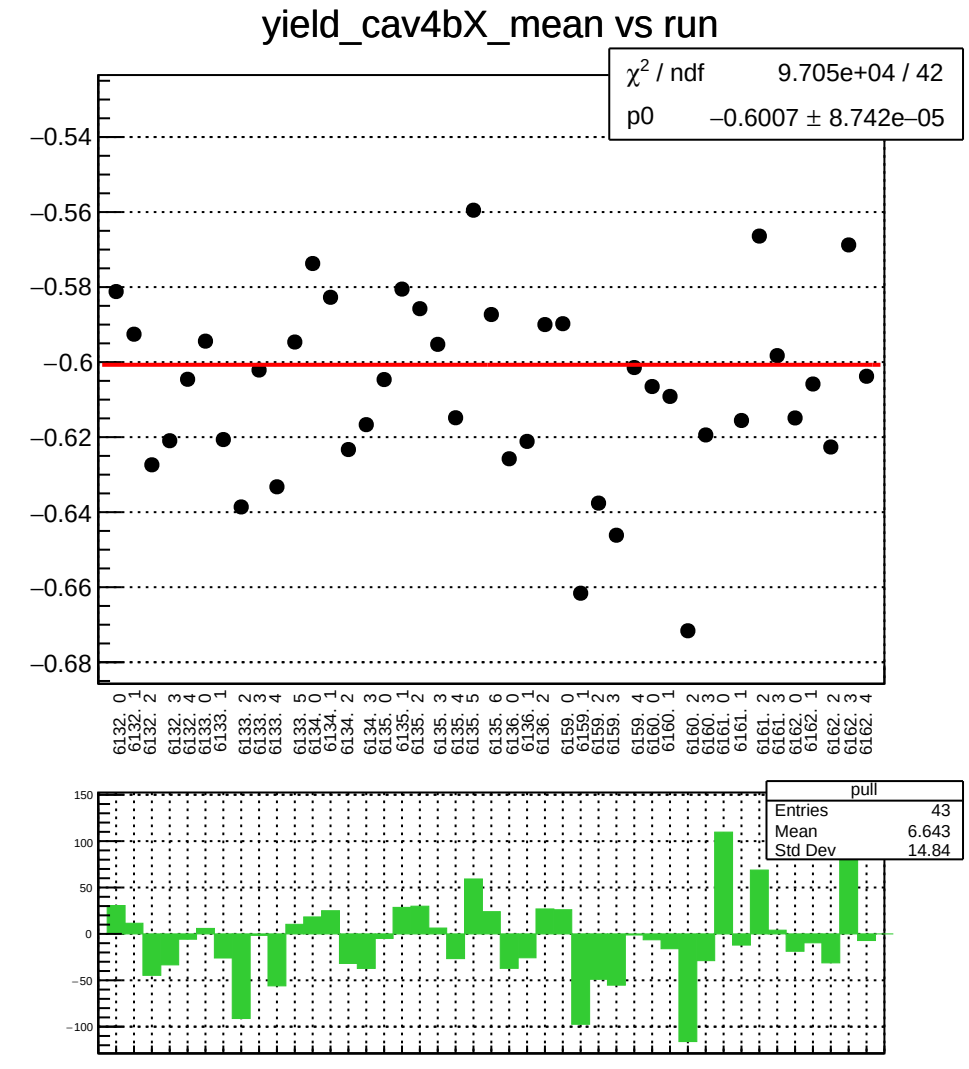
2
4
6
8

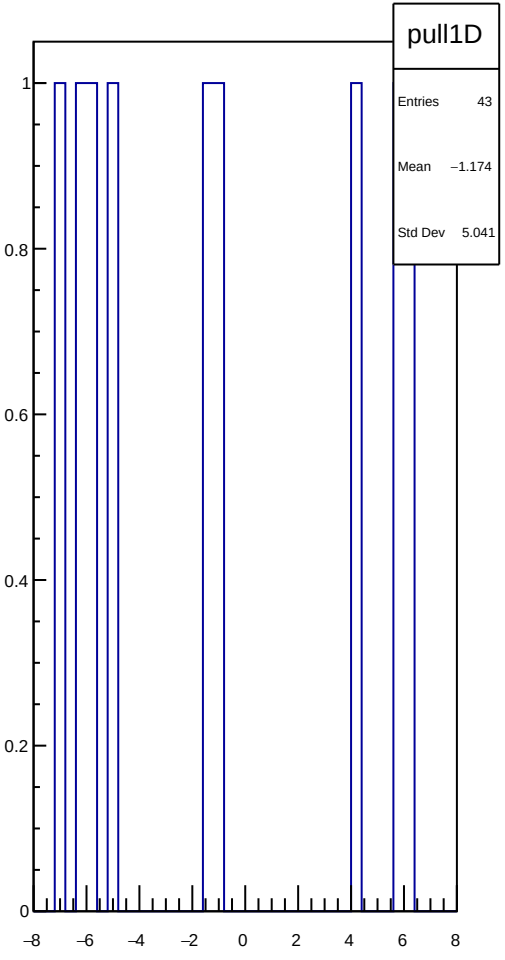

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

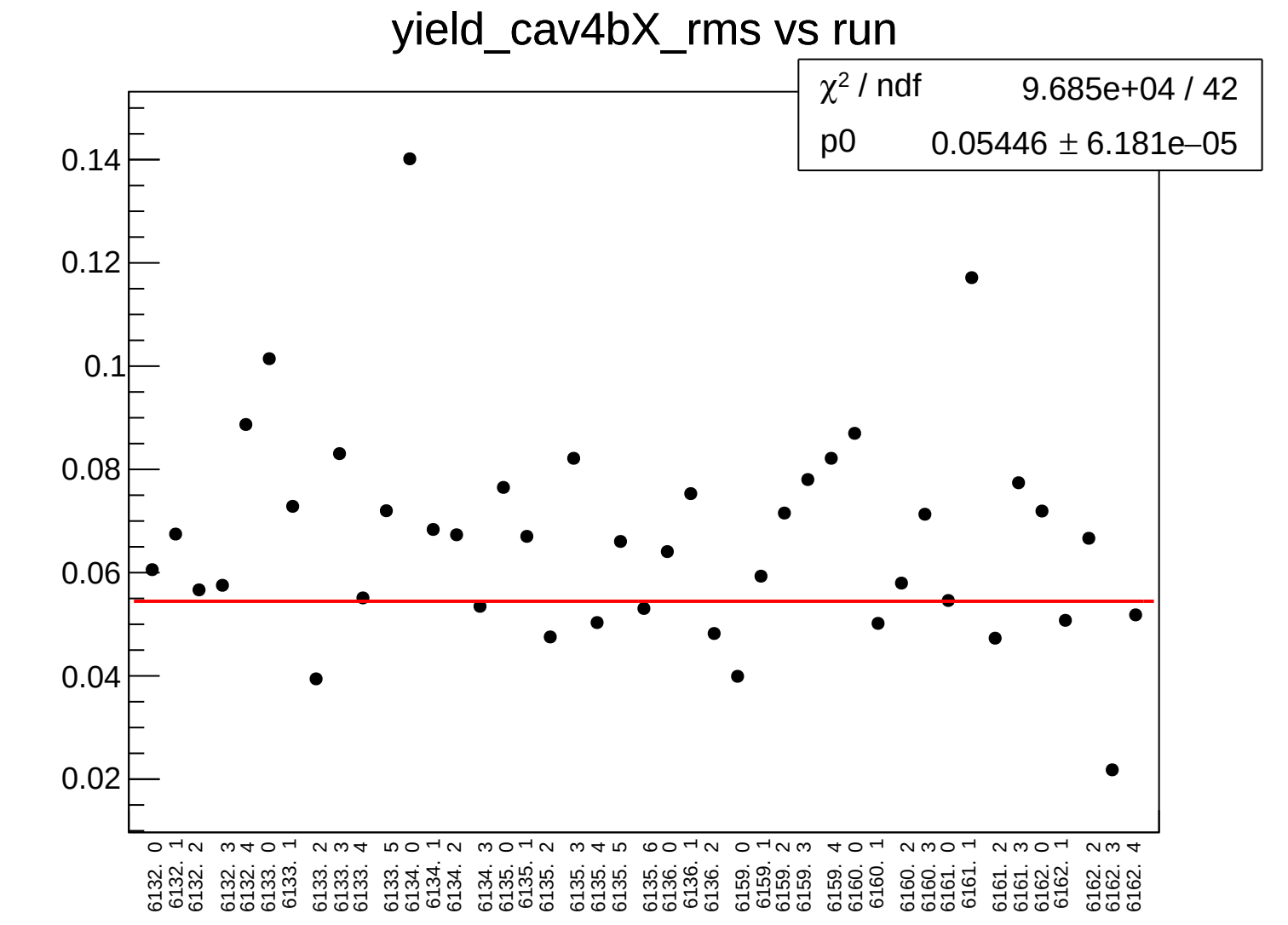

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

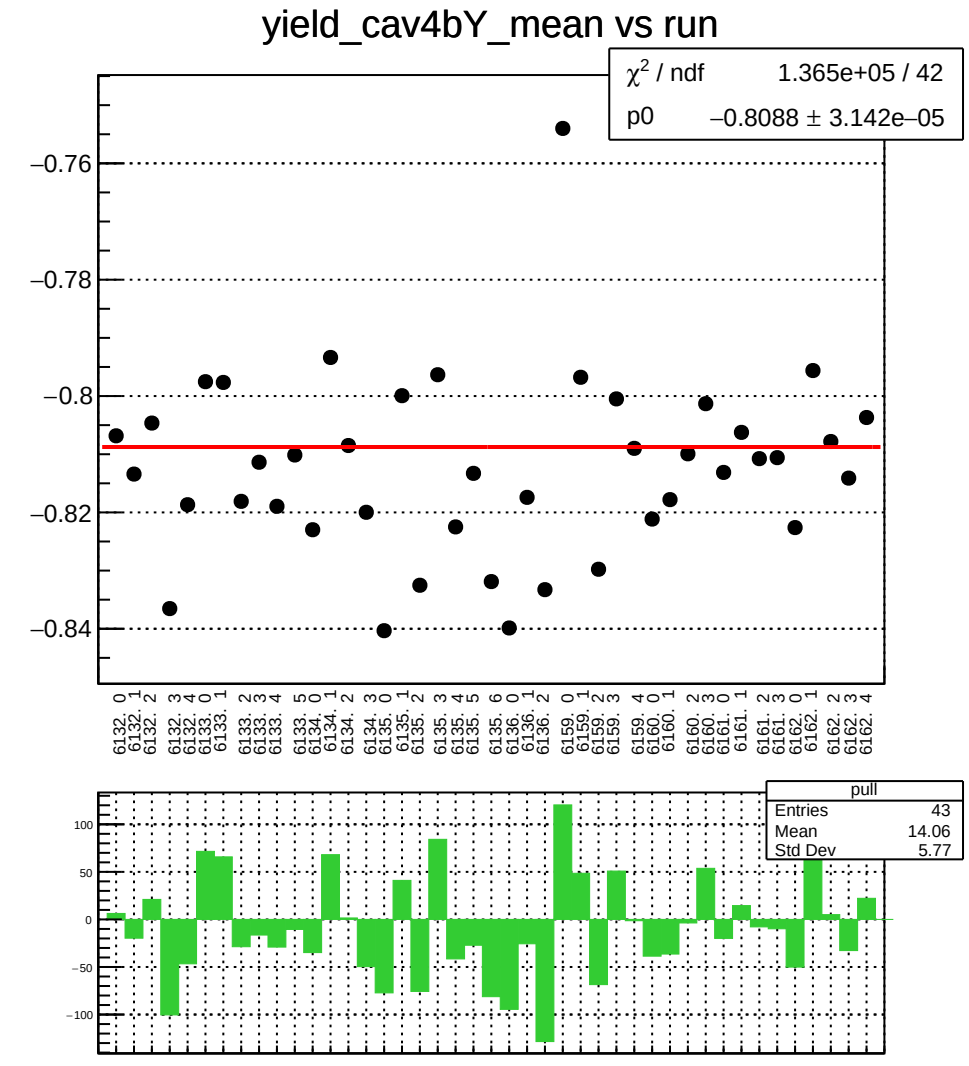

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

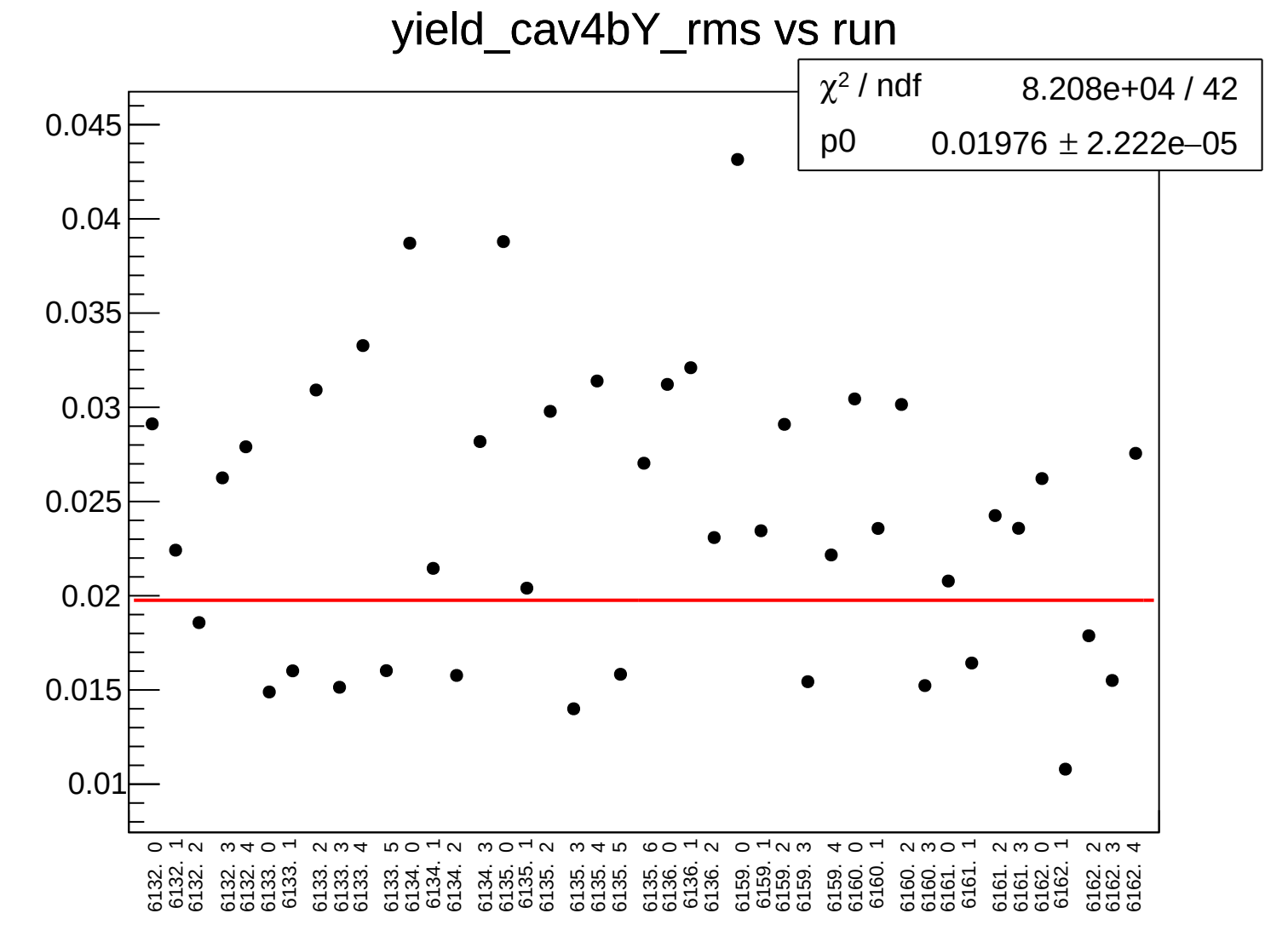

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

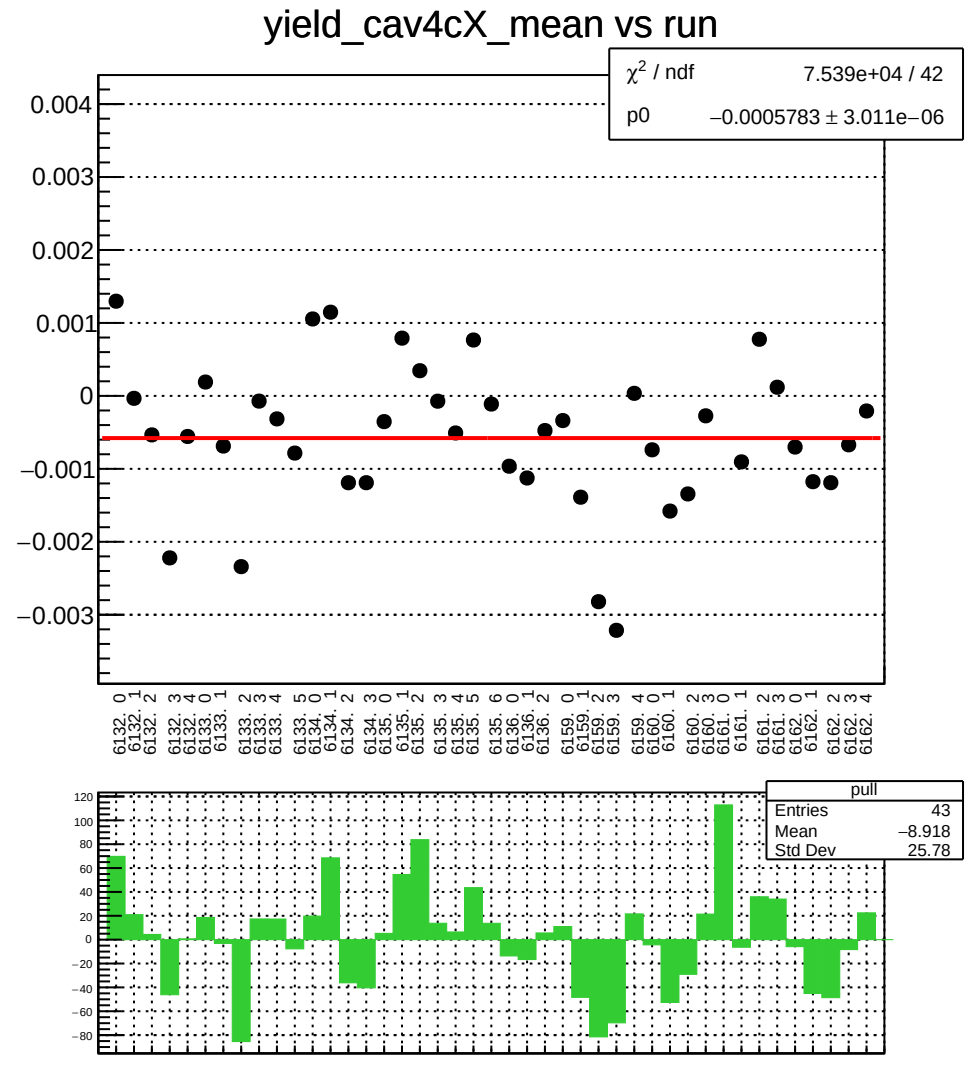

yield_cav4bX_mean vs run
χ² / ndf 9.705e+04 / 42
p0 −0.6007 ± 8.742e−05
−0.54
−0.56
−0.58
−0.6
−0.62
−0.64
−0.66
−0.68
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 6.643
Std Dev 14.84
150
100
50
0
−50
−100

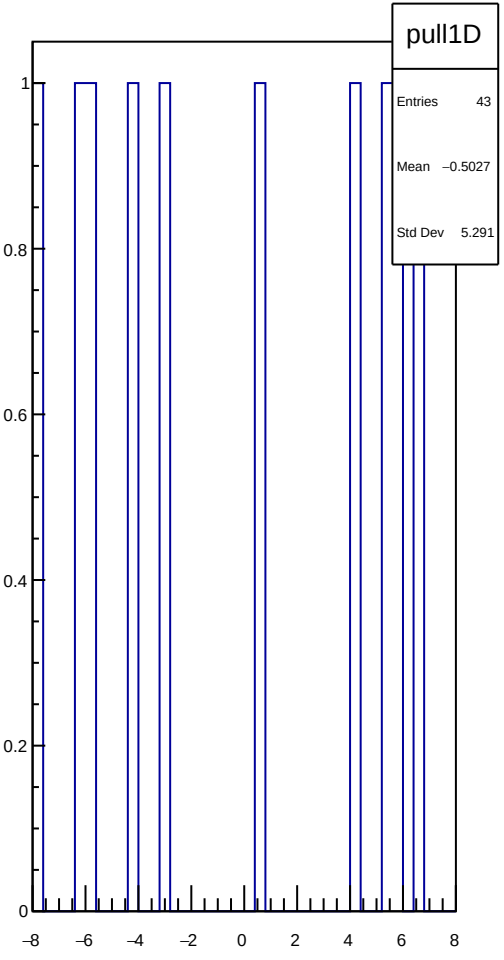

pull1D
Entries 43
Mean −1.174
Std Dev 5.041
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

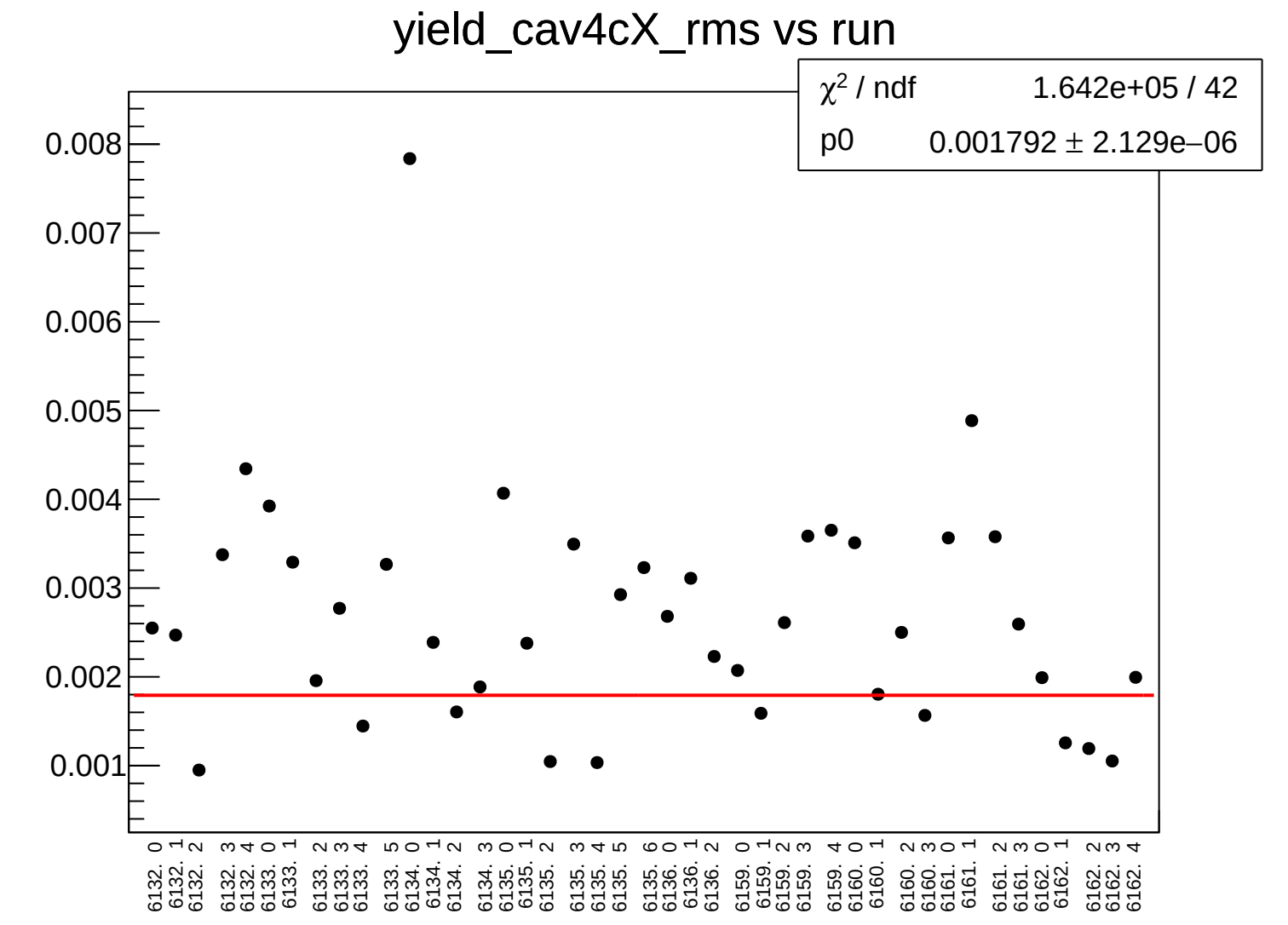

yield_cav4bX_rms vs run
χ² / ndf 9.685e+04 / 42
p0 0.05446 ± 6.181e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

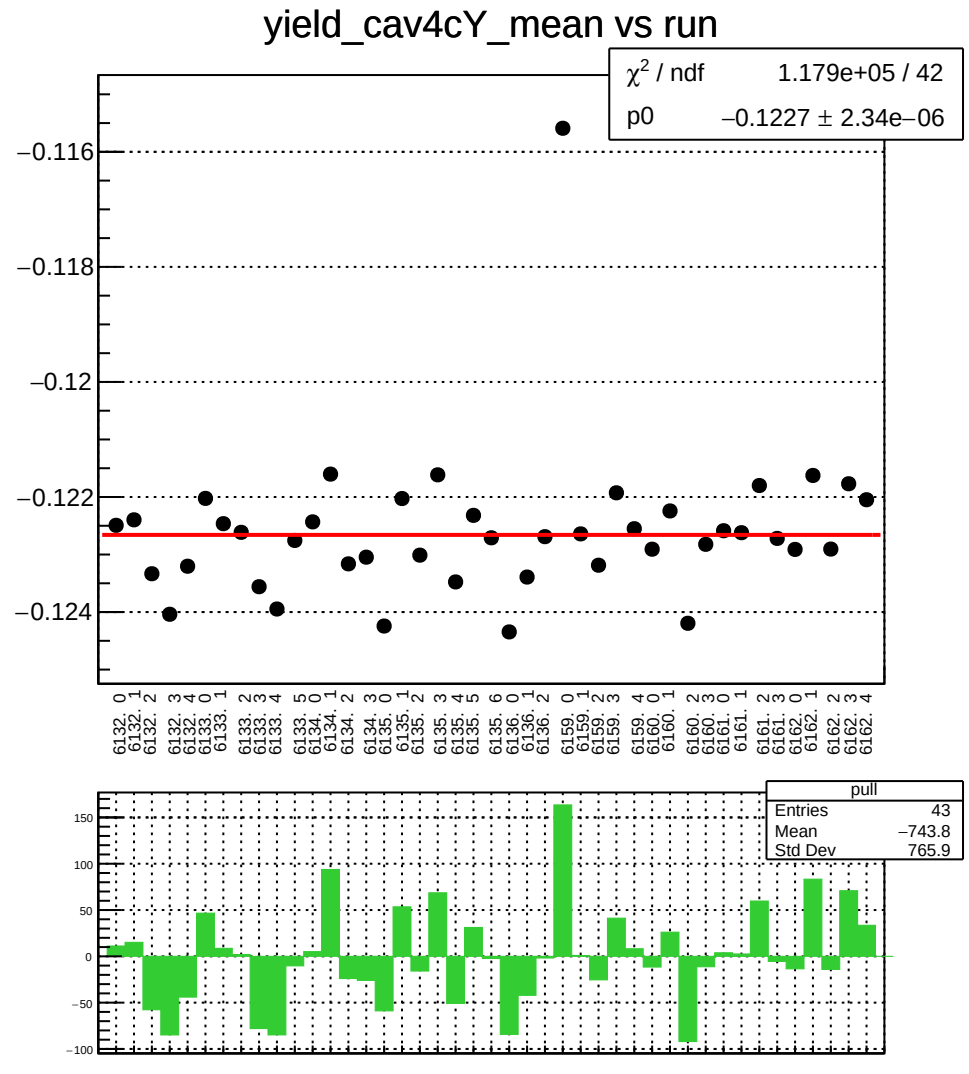

yield_cav4bY_mean vs run
χ² / ndf 1.365e+05 / 42
p0 −0.8088 ± 3.142e−05
−0.76
−0.78
−0.8
−0.82
−0.84
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 14.06
Std Dev 5.77
100
50
0
−50
−100
pull1D
Entries 43
Mean −0.0006791
Std Dev 4.889
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

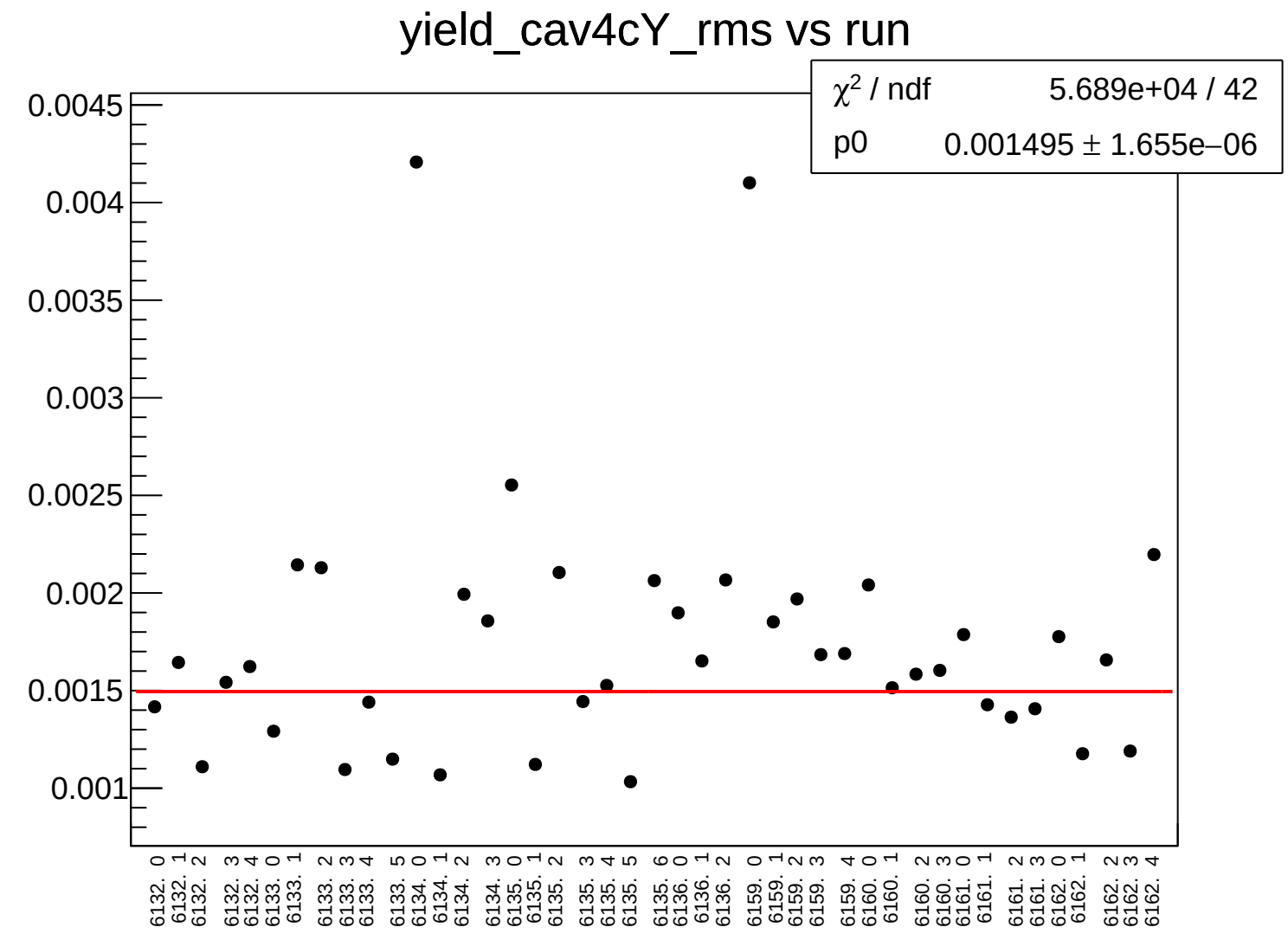

yield_cav4bY_rms vs run
χ² / ndf 8.208e+04 / 42
p0 0.01976 ± 2.222e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

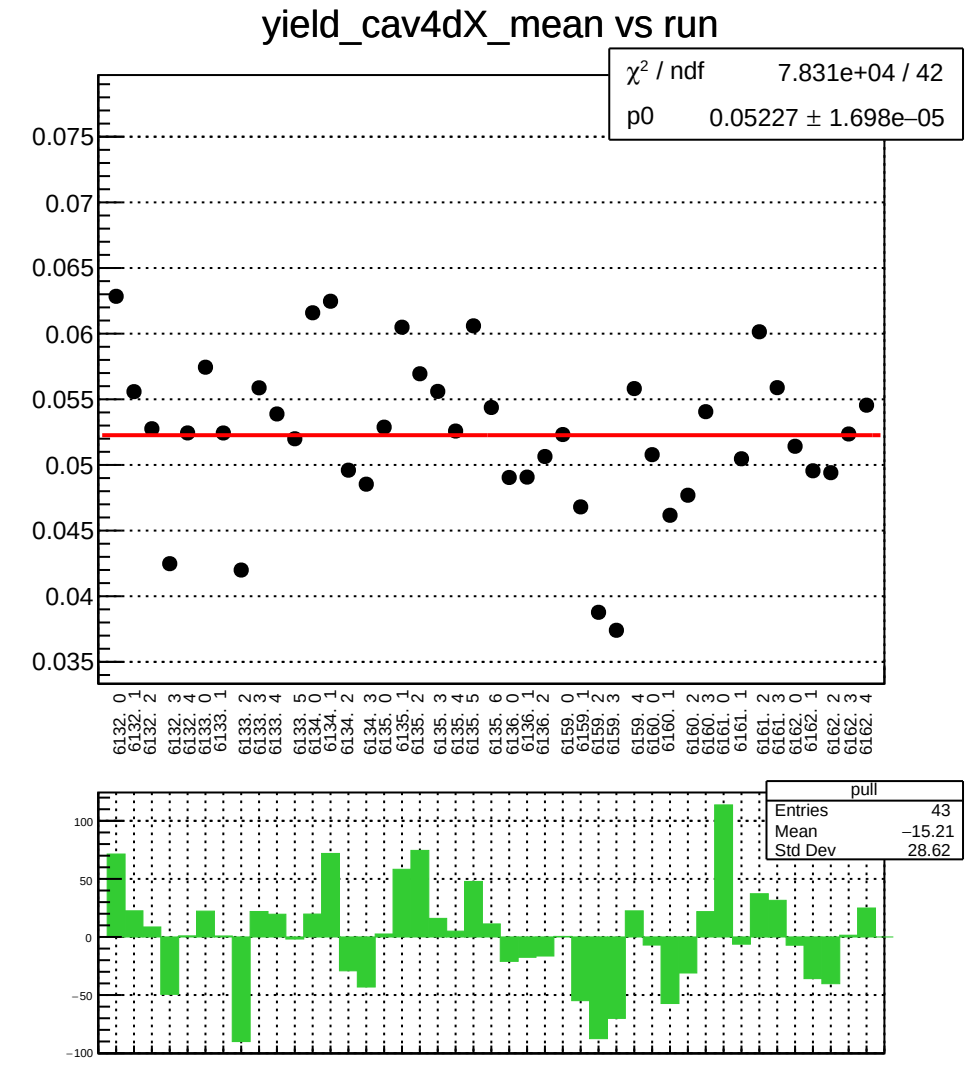

yield_cav4cX_mean vs run
χ² / ndf 7.539e+04 / 42
p0 −0.0005783 ± 3.011e−06
0.004
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −8.918
Std Dev 25.78
120
100
80
60
40
20
0
−20
−40
−60
−80

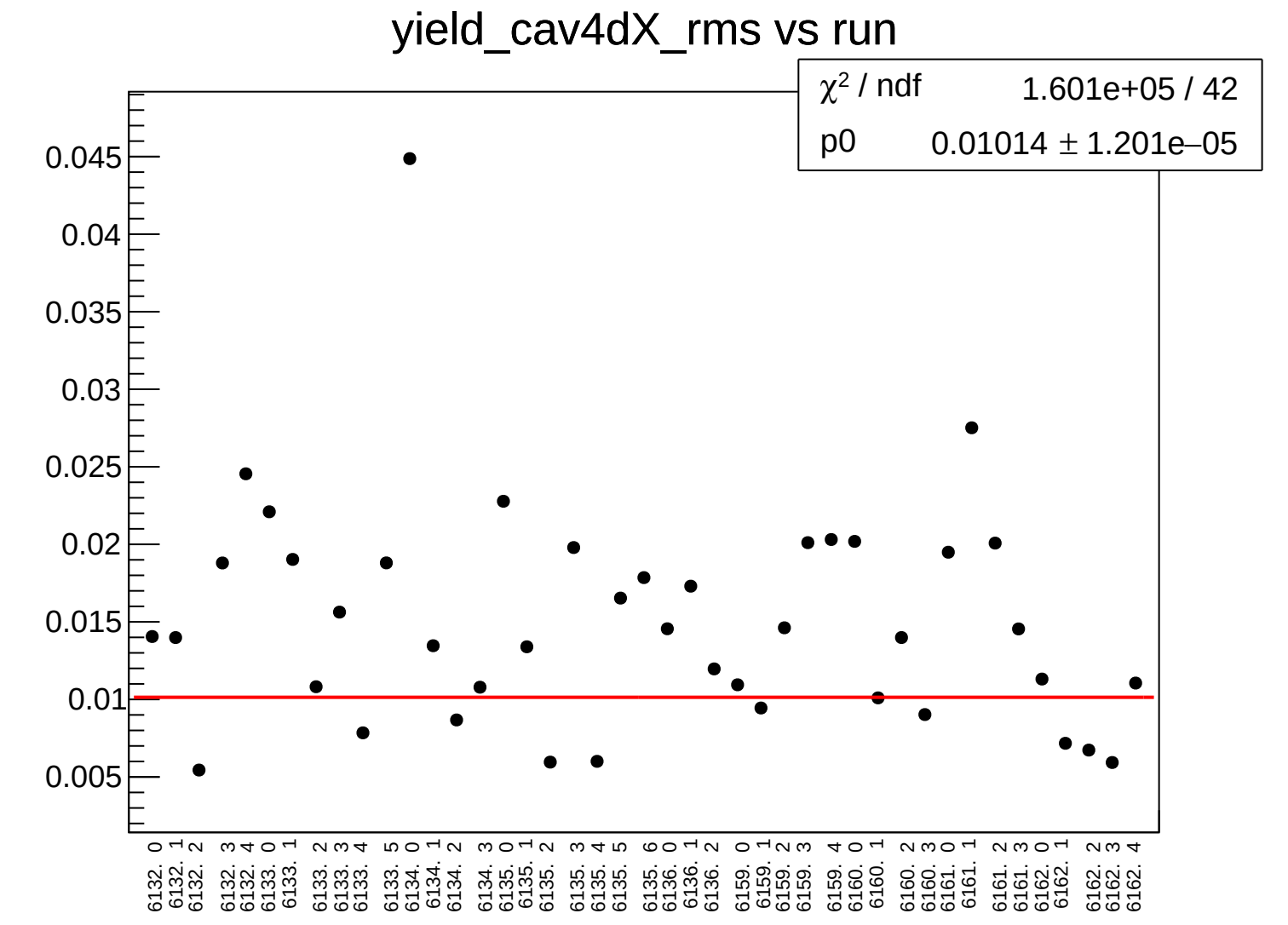

pull1D
Entries 43
Mean −0.5027
Std Dev 5.291
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

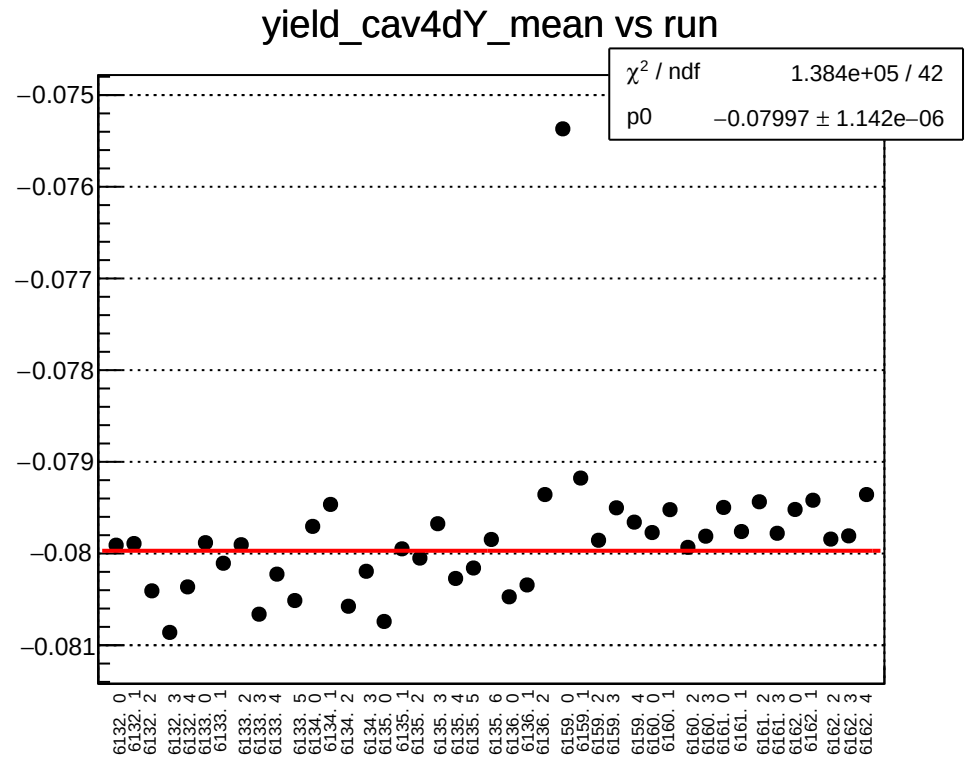

yield_cav4cX_rms vs run
χ² / ndf 1.642e+05 / 42
p0 0.001792 ± 2.129e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

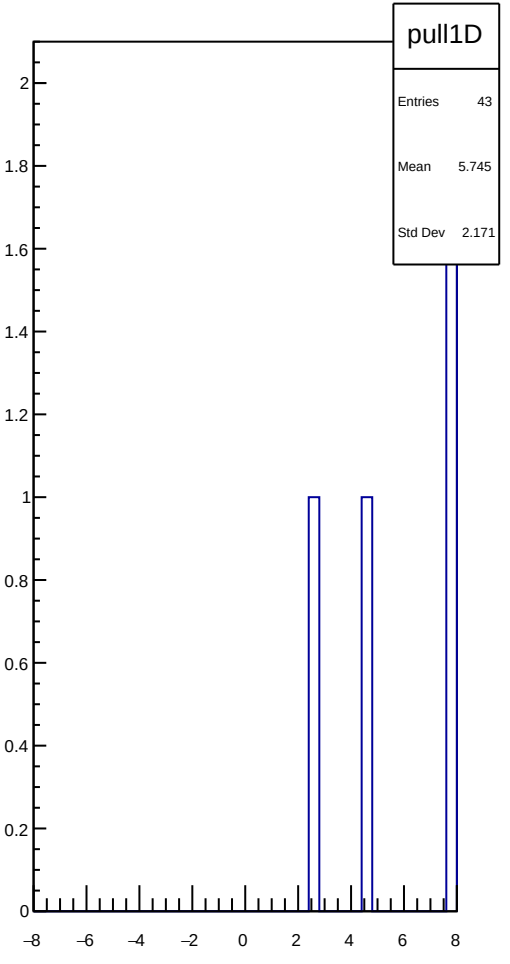

yield_cav4cY_mean vs run
χ² / ndf 1.179e+05 / 42
p0 −0.1227 ± 2.34e−06
−0.116
−0.118
−0.12
−0.122
−0.124
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −743.8
Std Dev 765.9
150
100
50
0
−50
−100
pull1D
Entries 43
Mean 0.6005
Std Dev 3.317
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

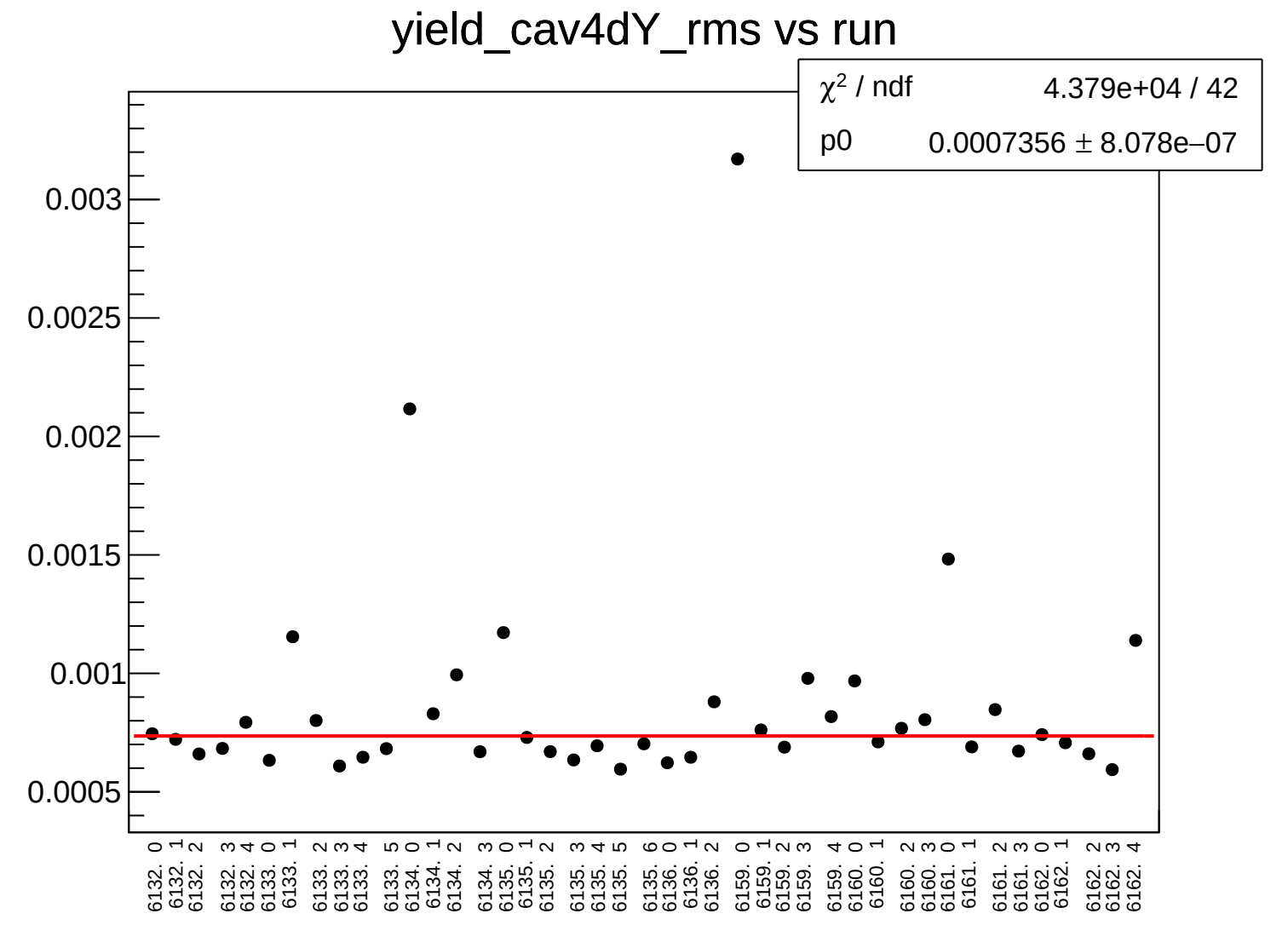

yield_cav4cY_rms vs run
χ² / ndf 5.689e+04 / 42
p0 0.001495 ± 1.655e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

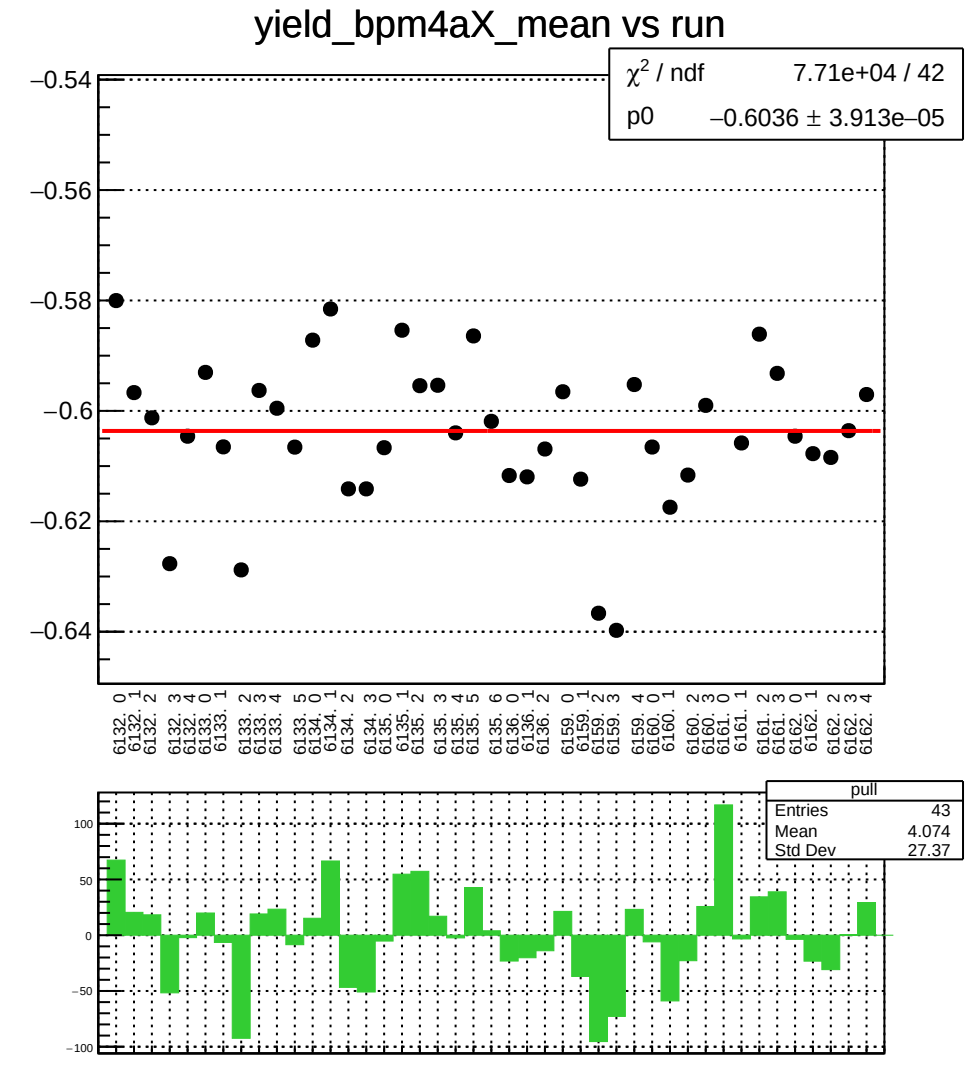

yield_cav4dX_mean vs run
χ² / ndf 7.831e+04 / 42
p0 0.05227 ± 1.698e−05
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04
0.035
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −15.21
Std Dev 28.62
100
50
0
−50
−100
pull1D
Entries 43
Mean −1.075
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

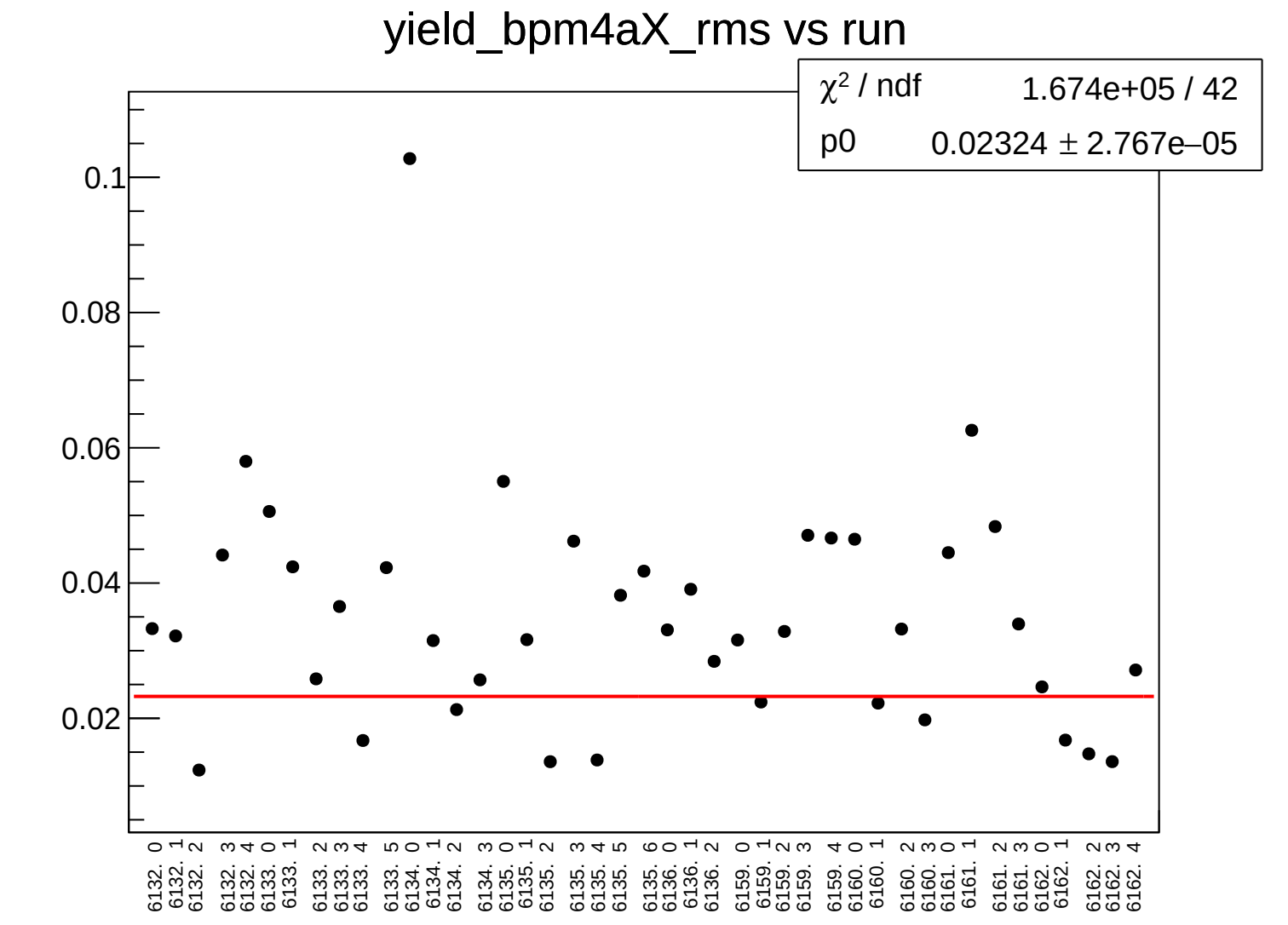

yield_cav4dX_rms vs run
χ² / ndf 1.601e+05 / 42
p0 0.01014 ± 1.201e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

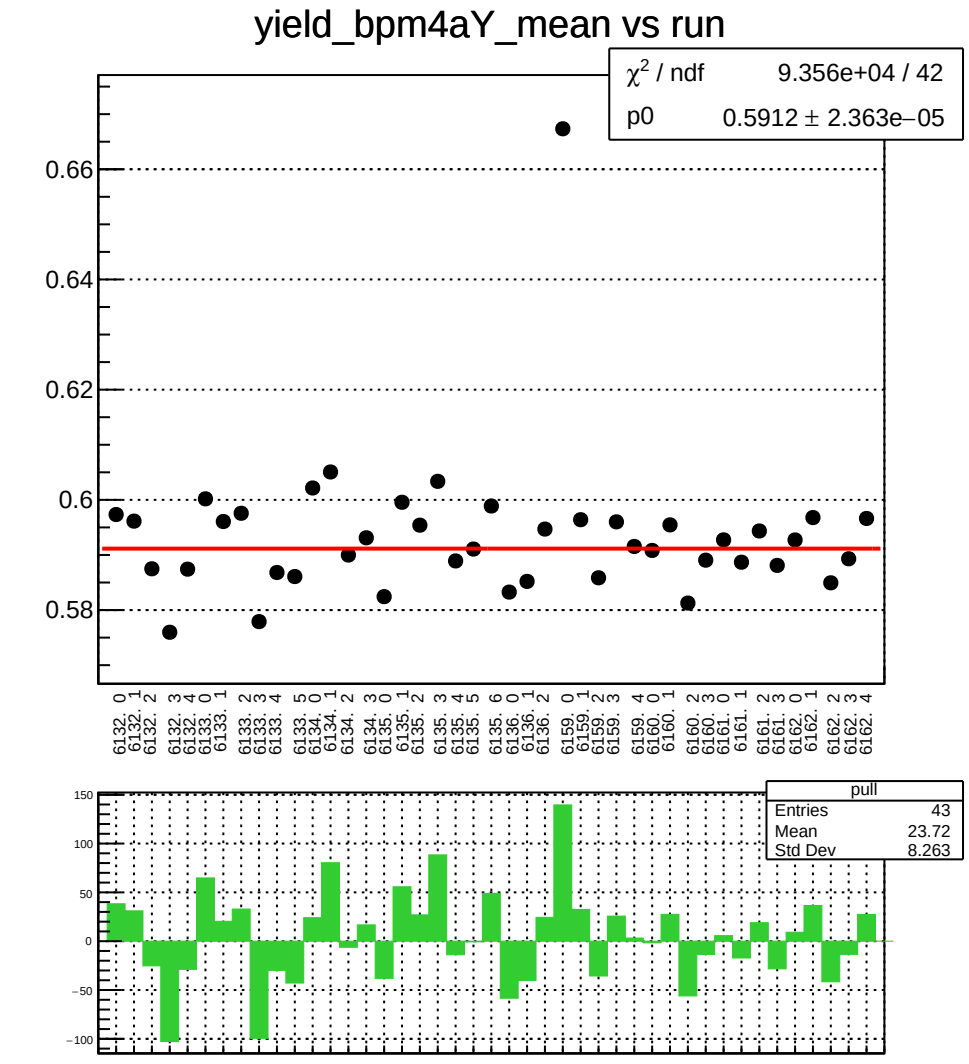

yield_cav4dY_mean vs run
χ² / ndf 1.384e+05 / 42
p0 −0.07997 ± 1.142e−06
−0.075
−0.076
−0.077
−0.078
−0.079
−0.08
−0.081
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
150
100
50
0
−50
−100
pull
Entries 43
Mean 98.48
Std Dev 76.01

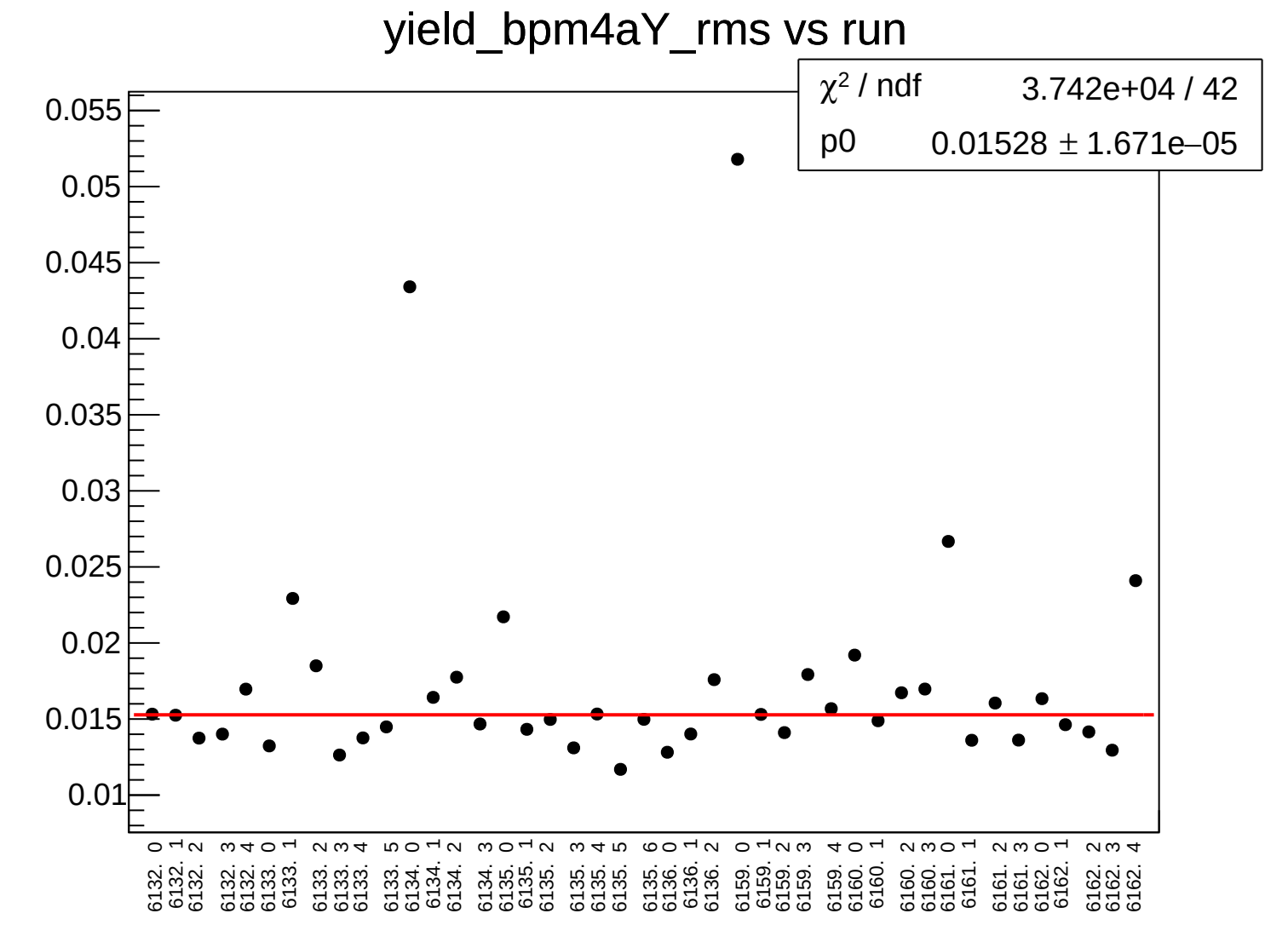

pull1D
Entries 43
Mean 5.745
Std Dev 2.171
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

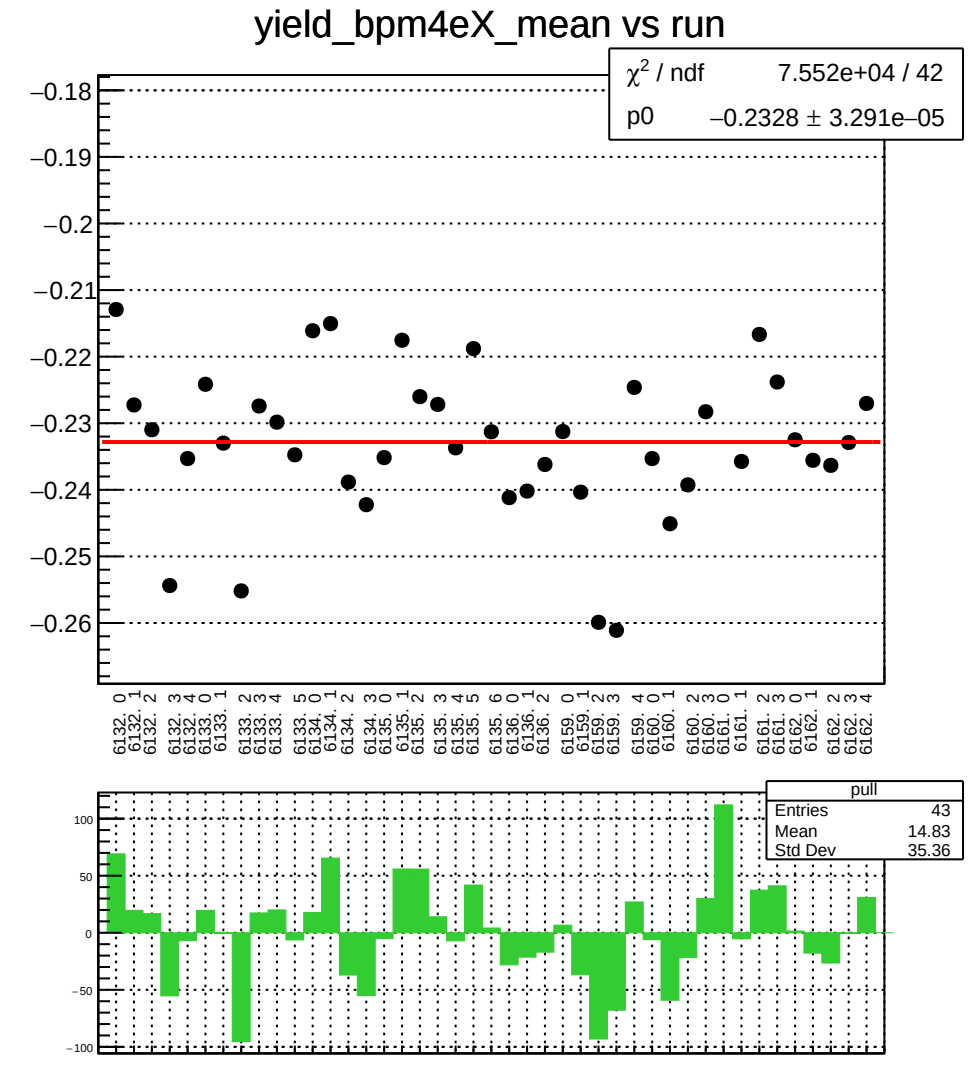

yield_cav4dY_rms vs run
χ² / ndf 4.379e+04 / 42
p0 0.0007356 ± 8.078e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

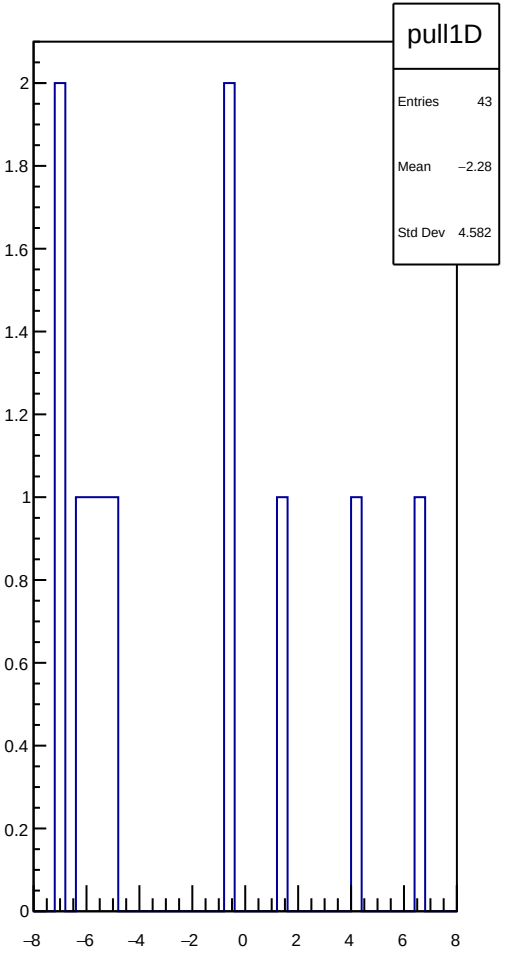

yield_bpm4aX_mean vs run
χ² / ndf 7.71e+04 / 42
p0 −0.6036 ± 3.913e−05
−0.54
−0.56
−0.58
−0.6
−0.62
−0.64
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 4.074
Std Dev 27.37
100
50
0
−50
−100
pull1D
Entries 43
Mean −2.758
Std Dev 3.099
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

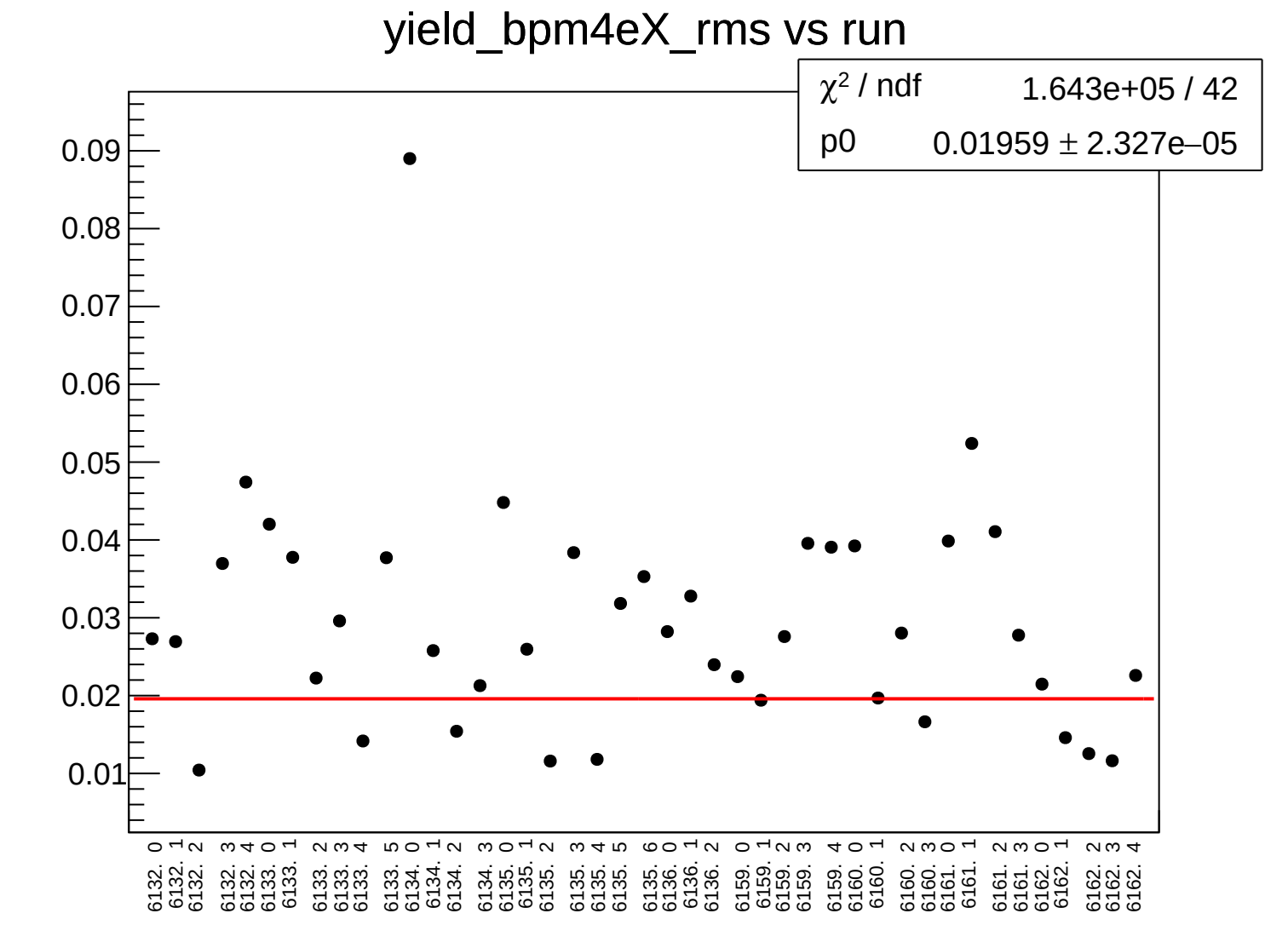

yield_bpm4aX_rms vs run
χ² / ndf 1.674e+05 / 42
p0 0.02324 ± 2.767e–05
0.1
0.08
0.06
0.04
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

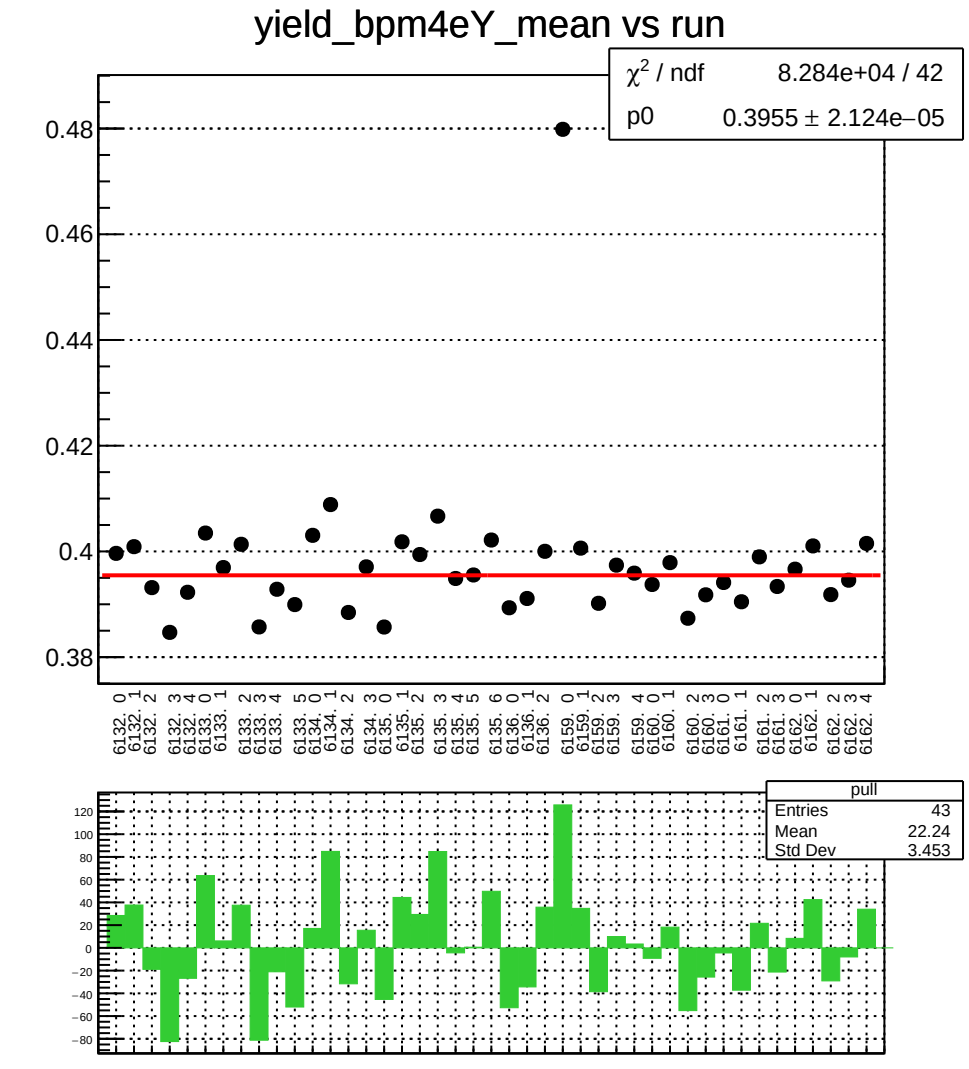

yield_bpm4aY_mean vs run
χ² / ndf 9.356e+04 / 42
p0 0.5912 ± 2.363e−05
0.66
0.64
0.62
0.6
0.58
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 23.72
Std Dev 8.263
150
100
50
0
−50
−100
pull1D
Entries 43
Mean 0.07186
Std Dev 4.095
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

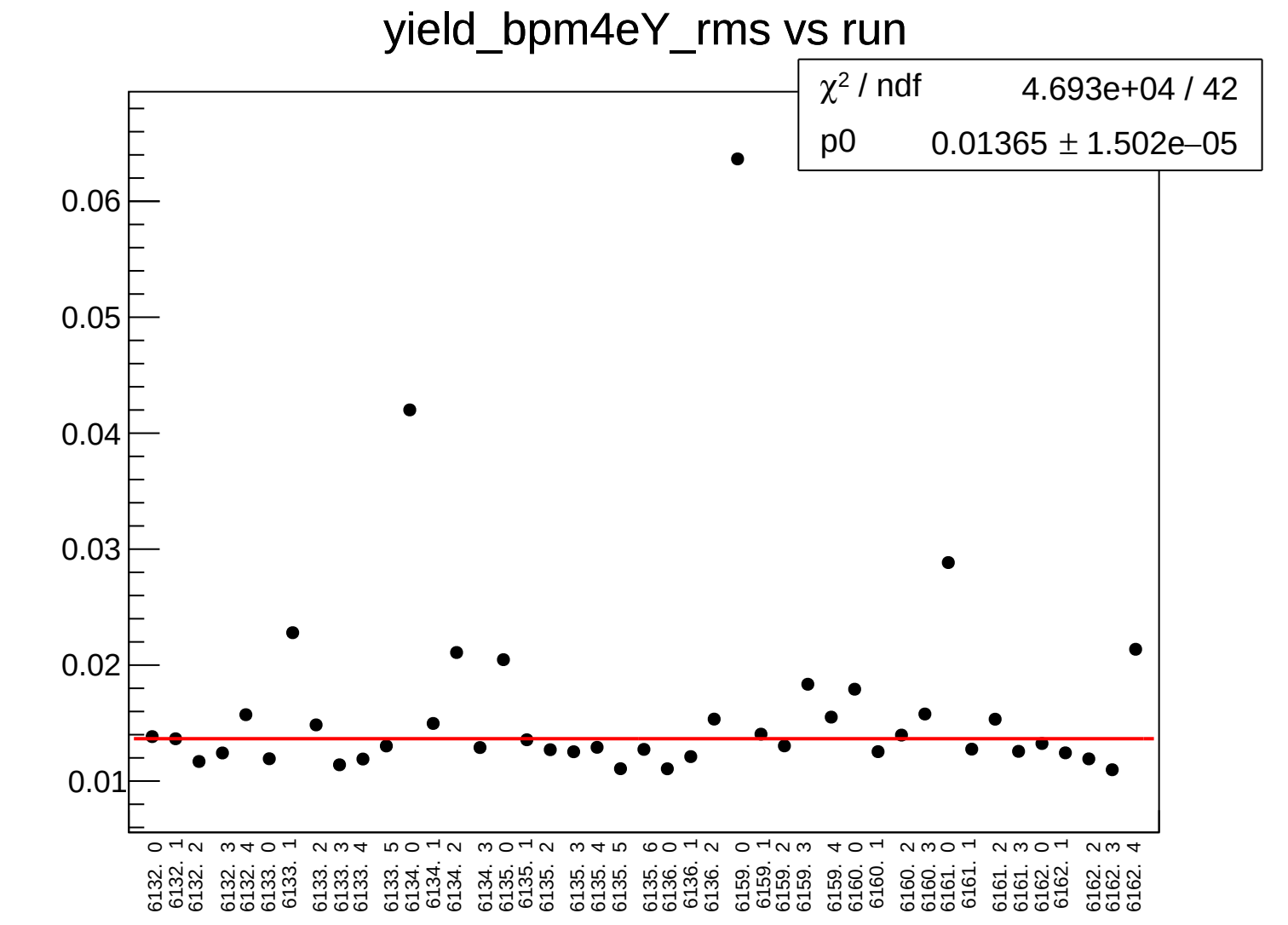

yield_bpm4aY_rms vs run
χ² / ndf 3.742e+04 / 42
p0 0.01528 ± 1.671e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

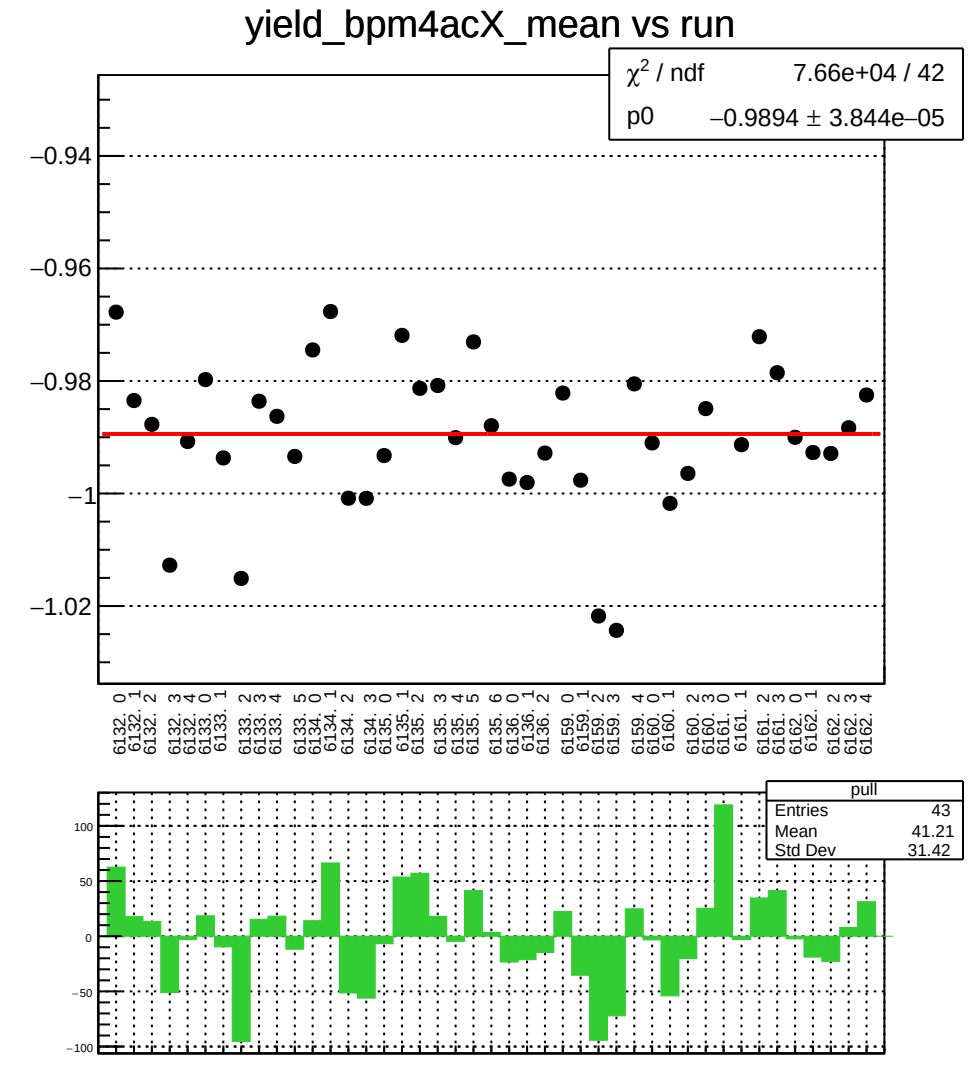

yield_bpm4eX_mean vs run
χ² / ndf 7.552e+04 / 42
p0 −0.2328 ± 3.291e−05
−0.18
−0.19
−0.2
−0.21
−0.22
−0.23
−0.24
−0.25
−0.26
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 14.83
Std Dev 35.36
100
50
0
−50
−100

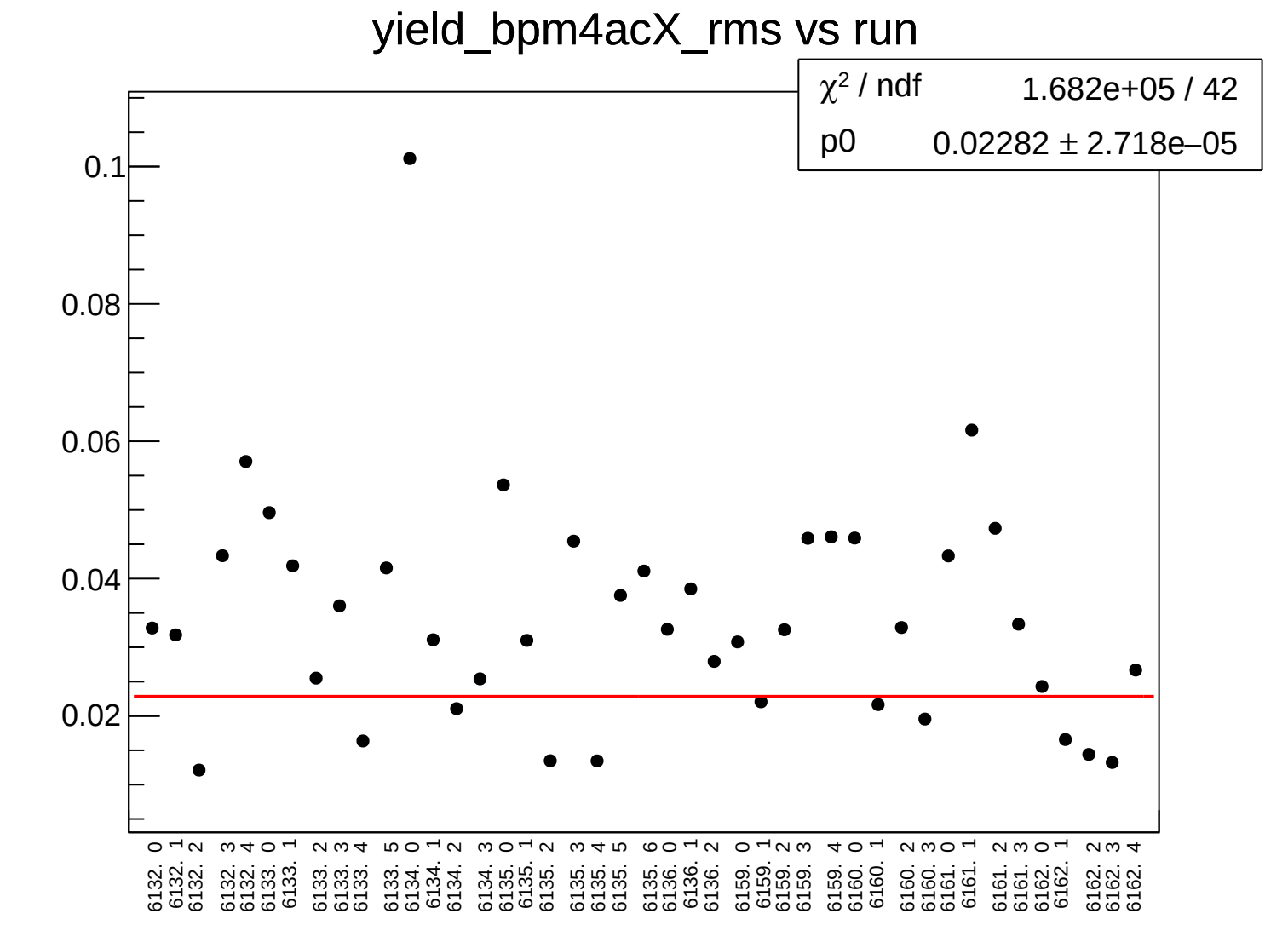

pull1D
Entries 43
Mean −2.28
Std Dev 4.582
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

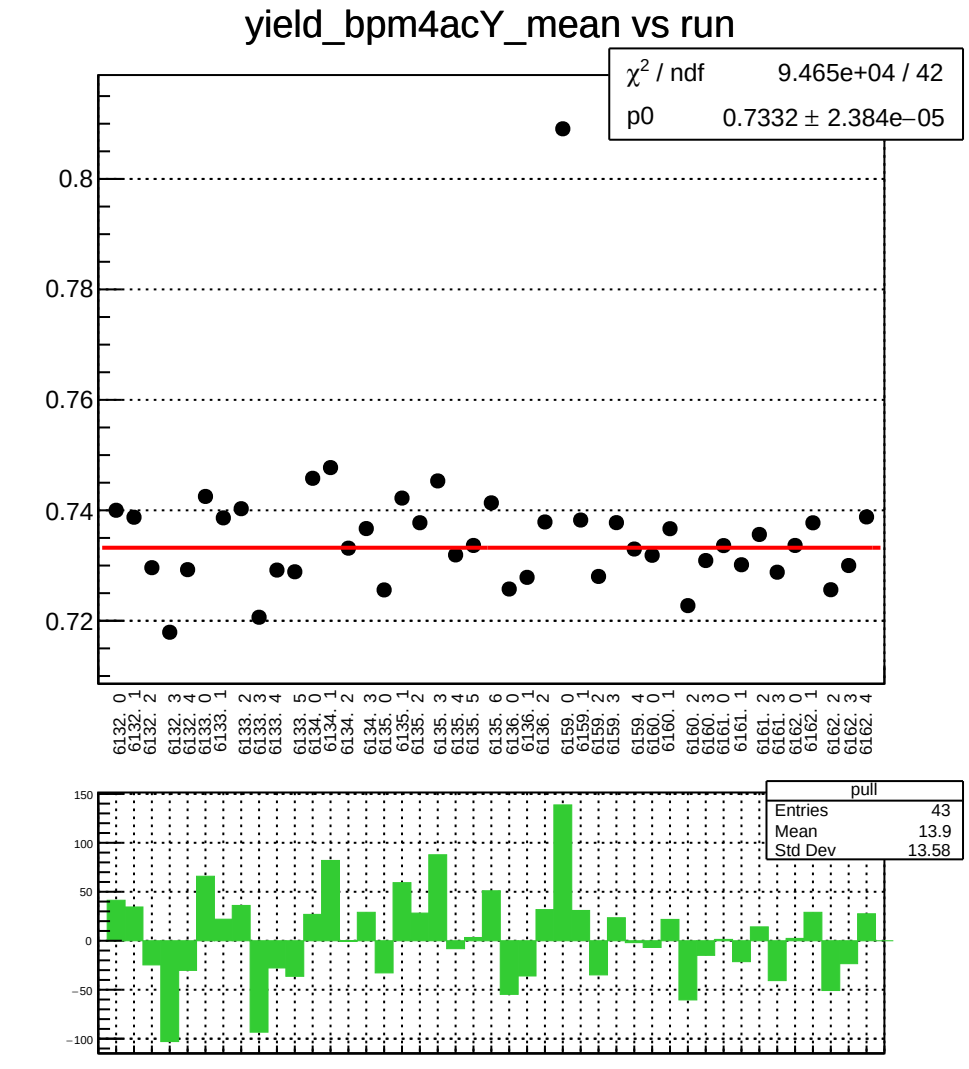

yield_bpm4eX_rms vs run
χ² / ndf 1.643e+05 / 42
p0 0.01959 ± 2.327e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

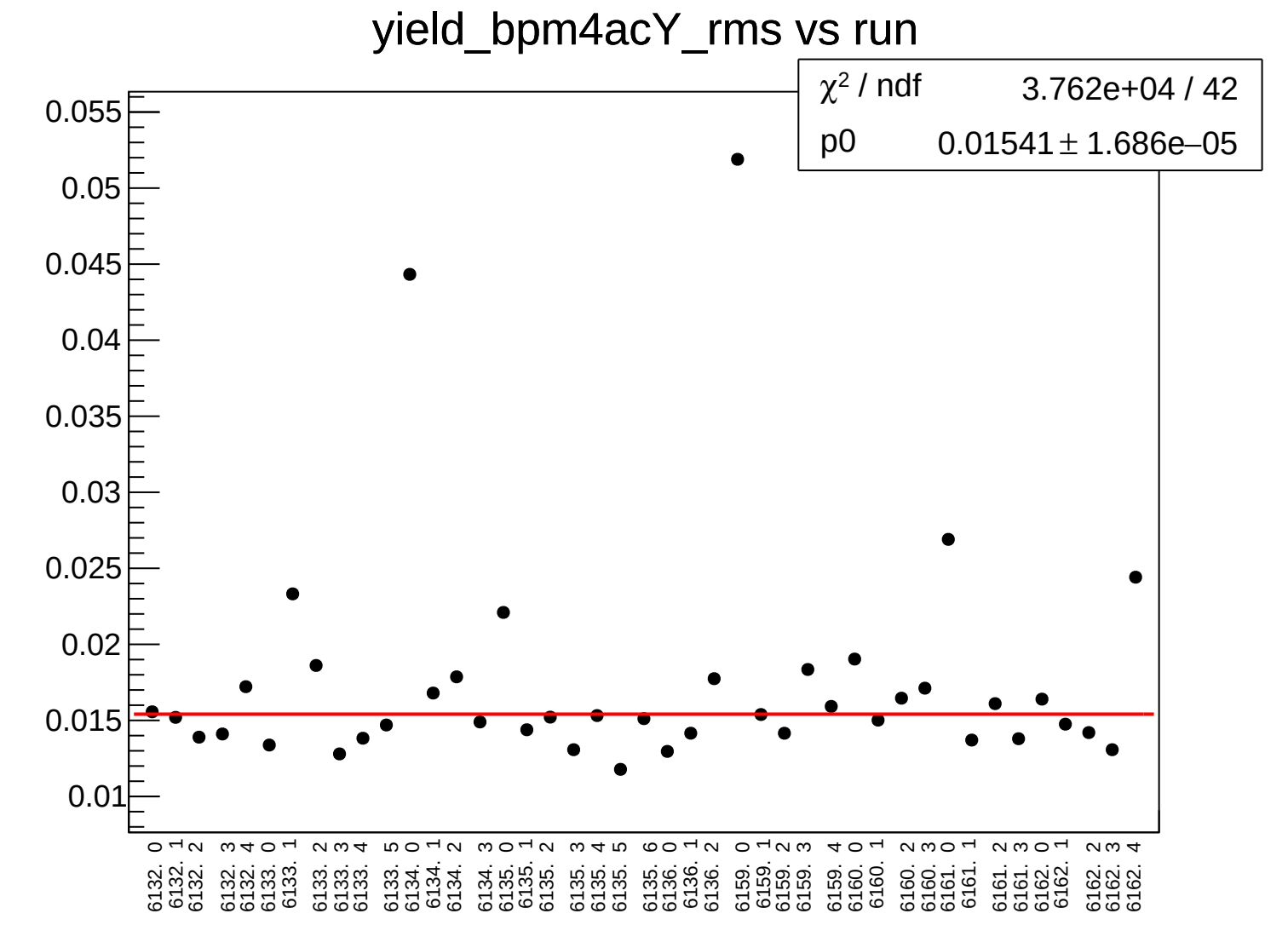

yield_bpm4eY_mean vs run
χ² / ndf 8.284e+04 / 42
p0 0.3955 ± 2.124e−05
0.48
0.46
0.44
0.42
0.4
0.38
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 22.24
Std Dev 3.453
120
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 43
Mean −1.125
Std Dev 4.903
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

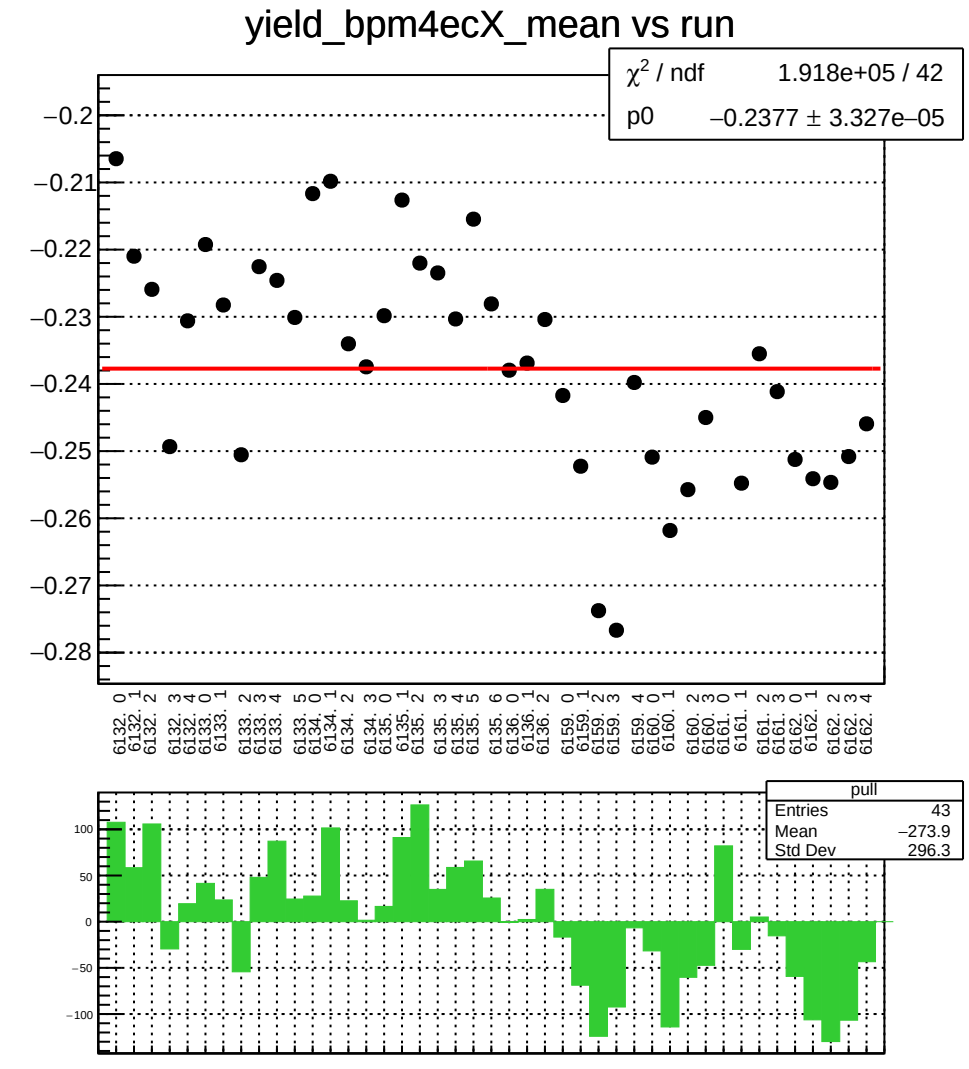

yield_bpm4eY_rms vs run
χ² / ndf 4.693e+04 / 42
p0 0.01365 ± 1.502e–05
0.06
0.05
0.04
0.03
0.02
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

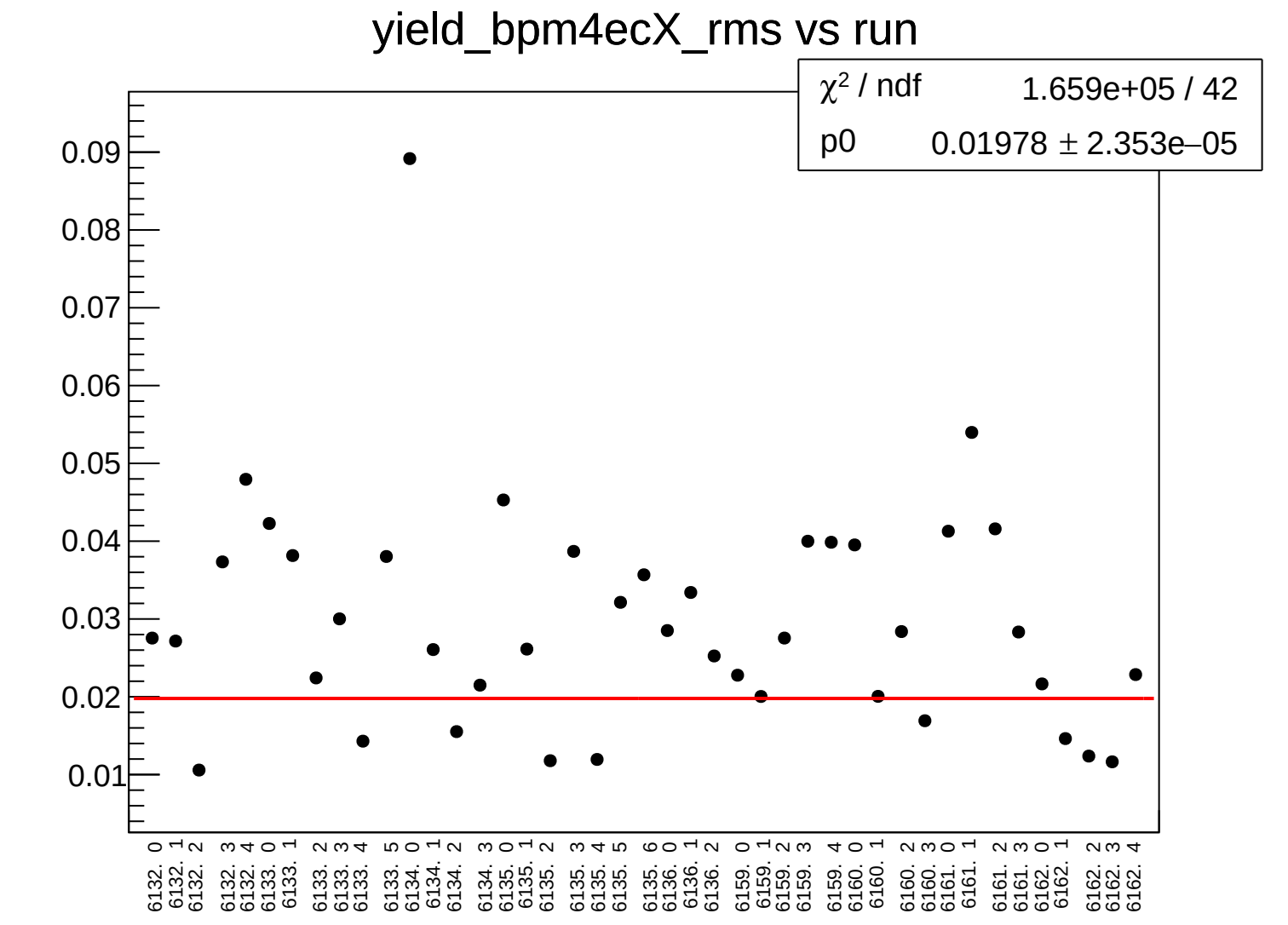

yield_bpm4acX_mean vs run
χ² / ndf 7.66e+04 / 42
p0 −0.9894 ± 3.844e−05
−0.94
−0.96
−0.98
−1
−1.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 41.21
Std Dev 31.42
100
50
0
−50
−100
pull1D
Entries 43
Mean −1.468
Std Dev 4.451
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

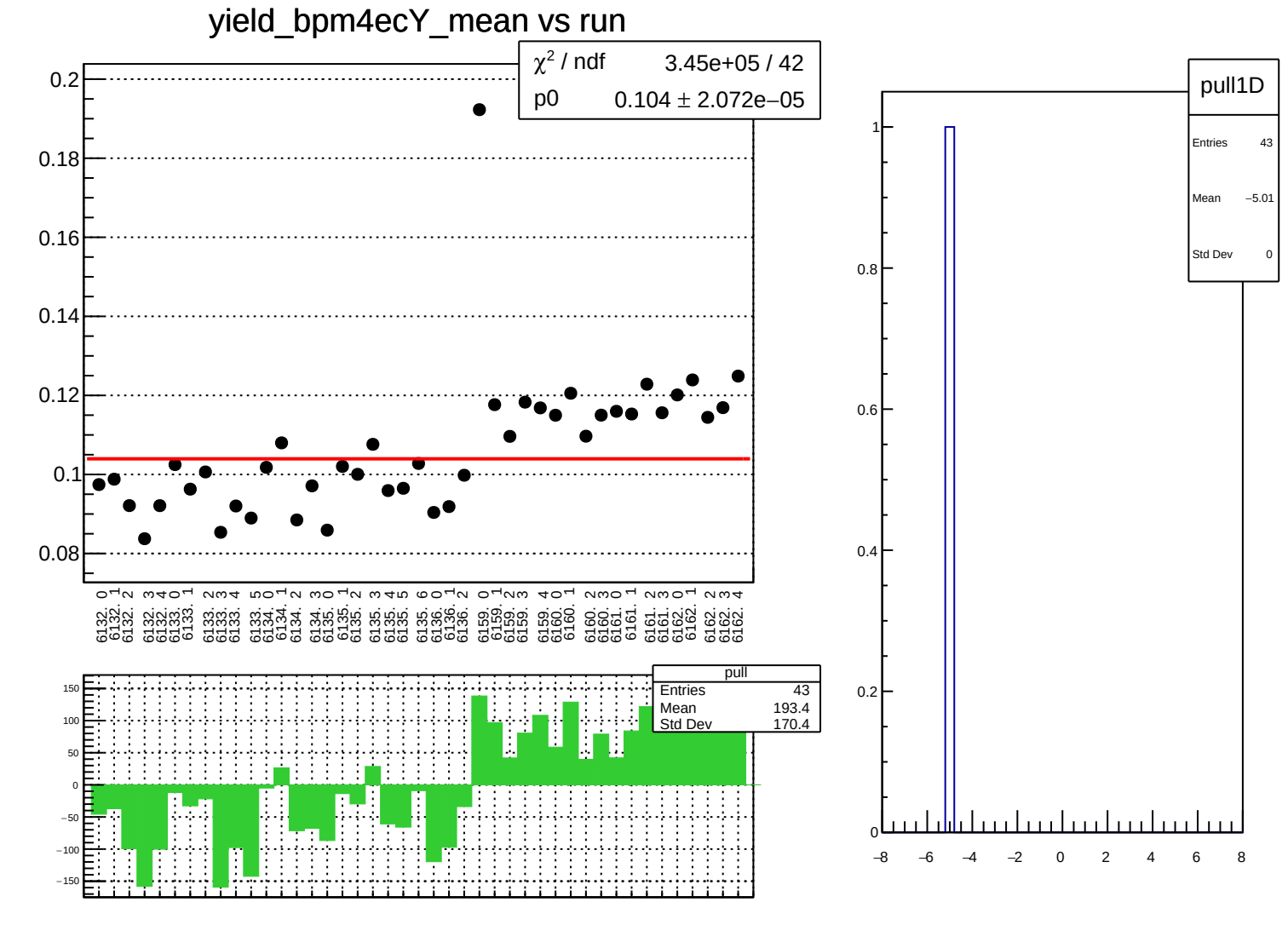

yield_bpm4acX_rms vs run
χ² / ndf 1.682e+05 / 42
p0 0.02282 ± 2.718e–05
0.1
0.08
0.06
0.04
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

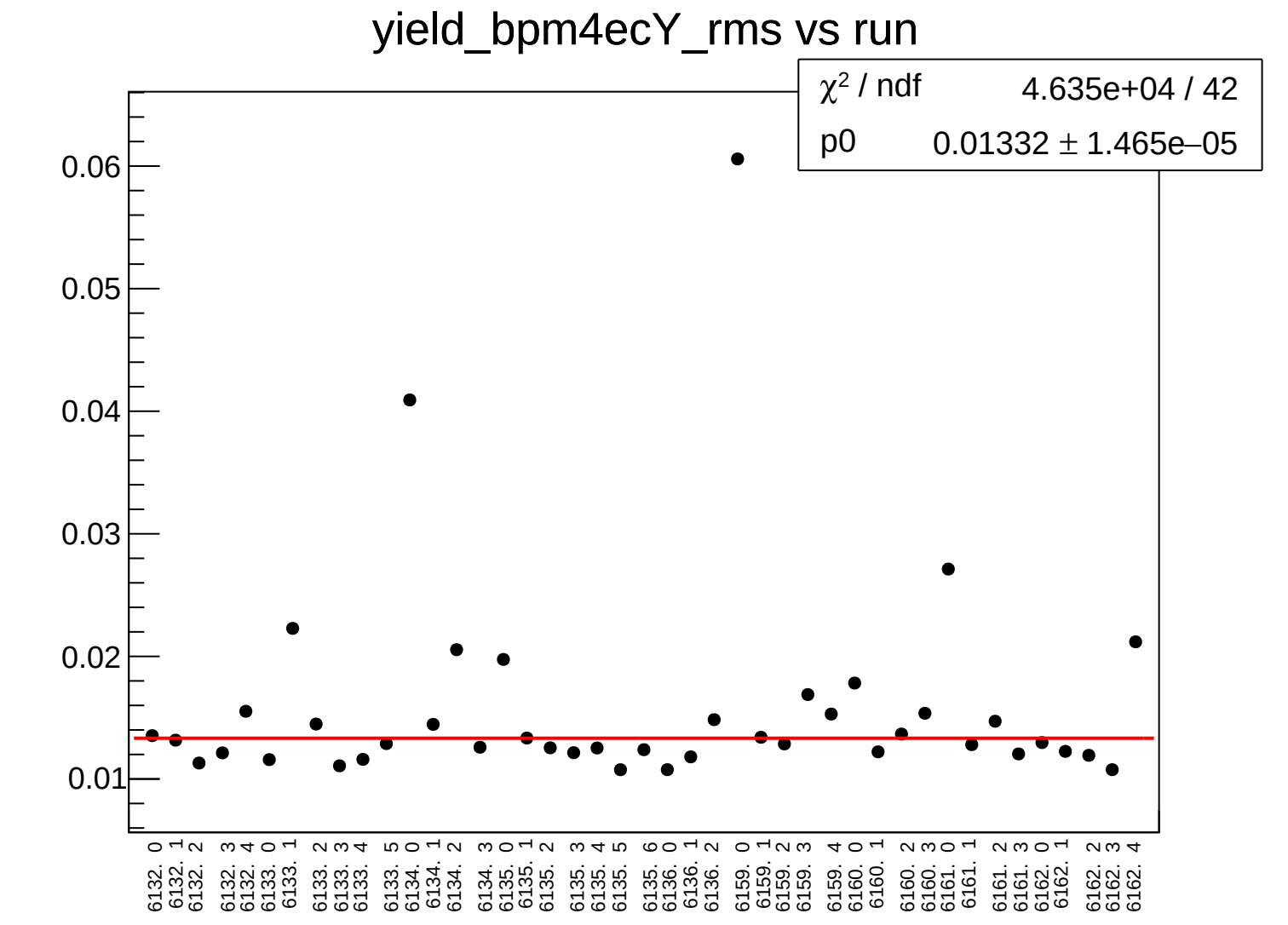

yield_bpm4acY_mean vs run
χ² / ndf 9.465e+04 / 42
p0 0.7332 ± 2.384e−05
0.8
0.78
0.76
0.74
0.72
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 13.9
Std Dev 13.58
150
100
50
0
−50
−100
pull1D
Entries 43
Mean −0.3485
Std Dev 3.37
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

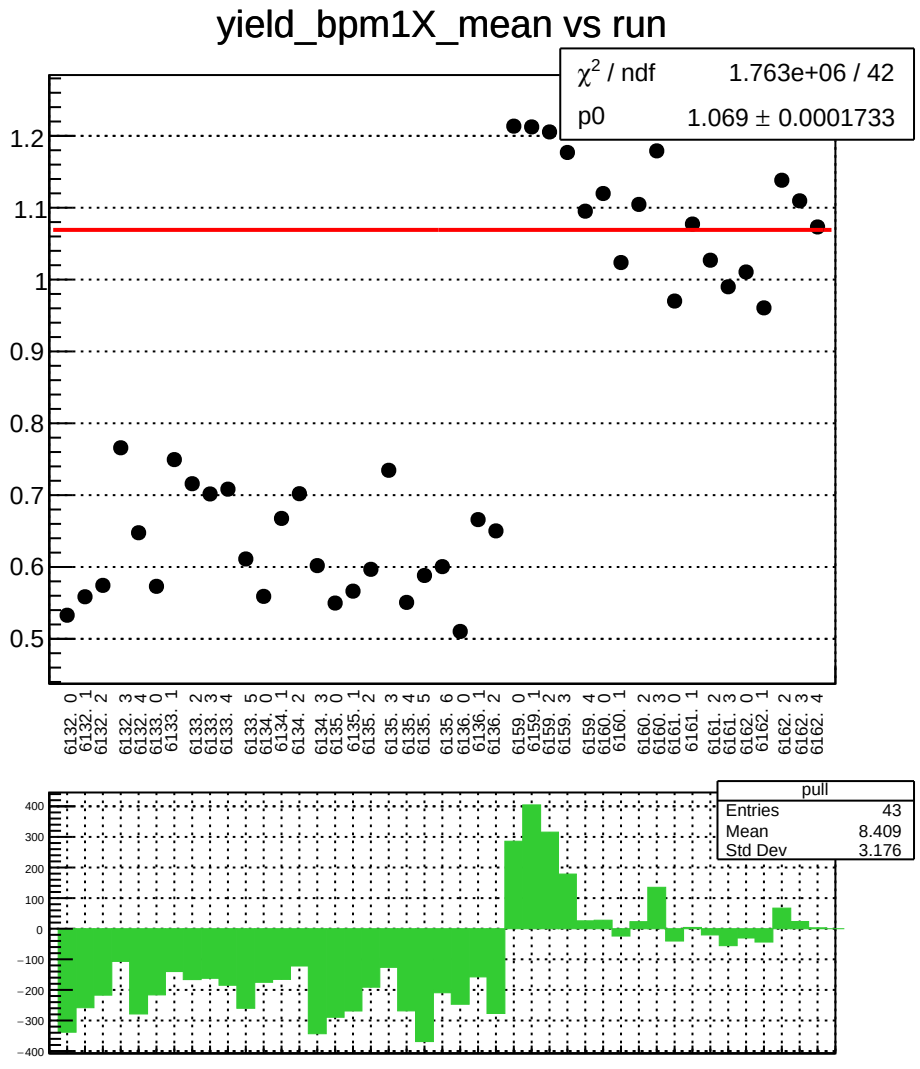

yield_bpm4acY_rms vs run
χ² / ndf 3.762e+04 / 42
p0 0.01541 ± 1.686e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

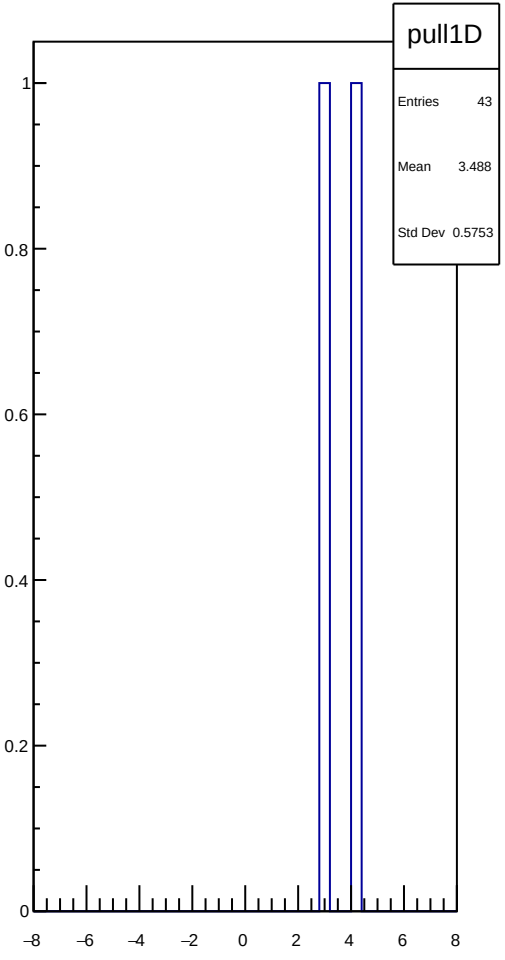

yield_bpm4ecX_mean vs run
χ² / ndf 1.918e+05 / 42
p0 −0.2377 ± 3.327e−05
−0.2
−0.21
−0.22
−0.23
−0.24
−0.25
−0.26
−0.27
−0.28
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −273.9
Std Dev 296.3
100
50
0
−50
−100
pull1D
Entries 43
Mean 0.3052
Std Dev 3.943
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

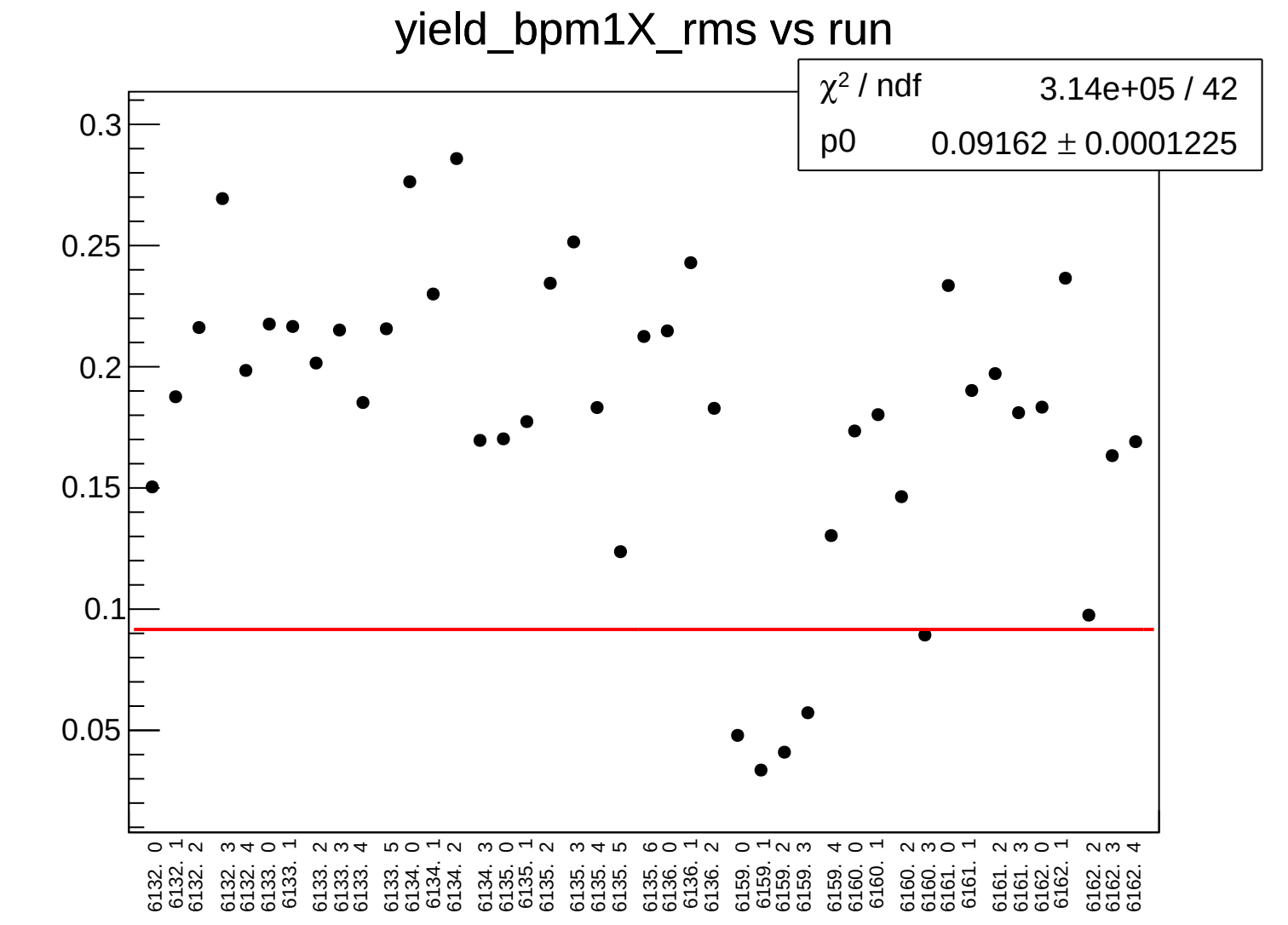

yield_bpm4ecX_rms vs run
χ² / ndf 1.659e+05 / 42
p0 0.01978 ± 2.353e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

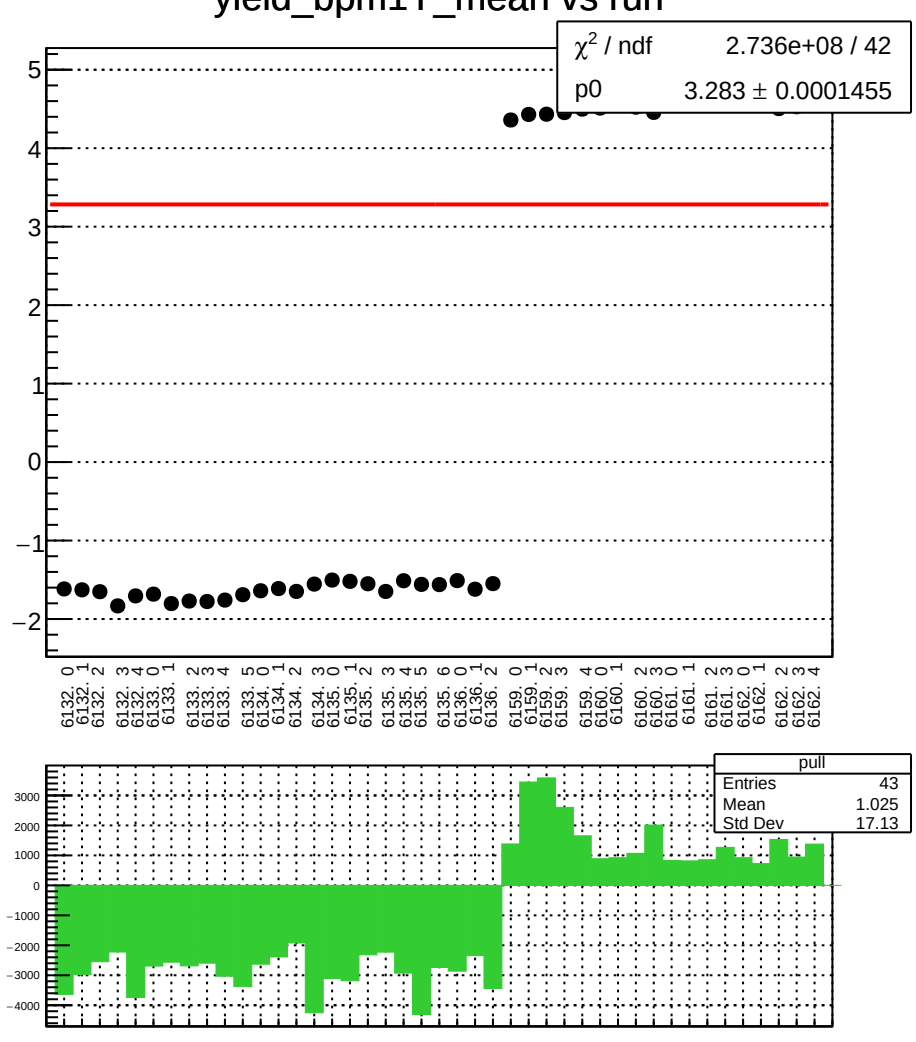

yield_bpm4ecY_mean vs run
χ² / ndf 3.45e+05 / 42
p0 0.104 ± 2.072e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 193.4
Std Dev 170.4
150
100
50
0
−50
−100
−150
pull1D
Entries 43
Mean −5.01
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

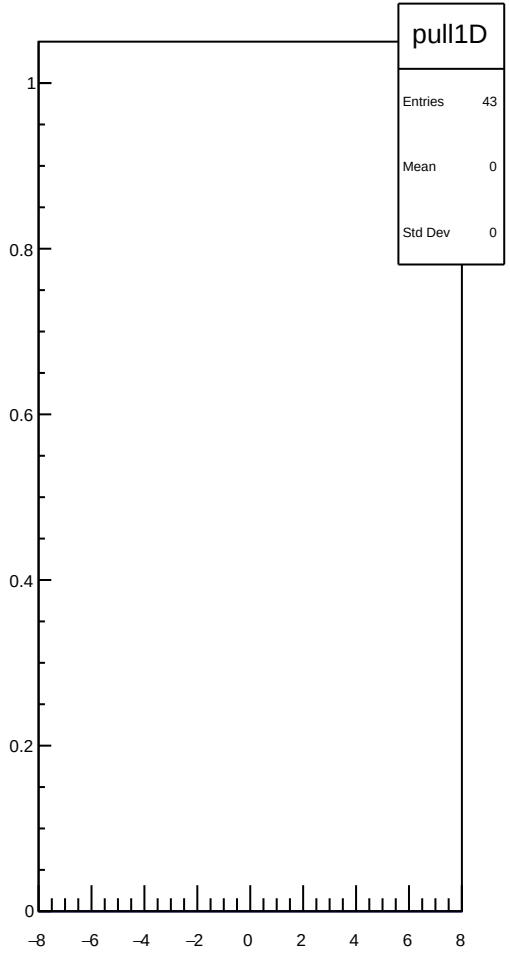

yield_bpm4ecY_rms vs run
χ² / ndf 4.635e+04 / 42
p0 0.01332 ± 1.465e−05
0.06
0.05
0.04
0.03
0.02
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

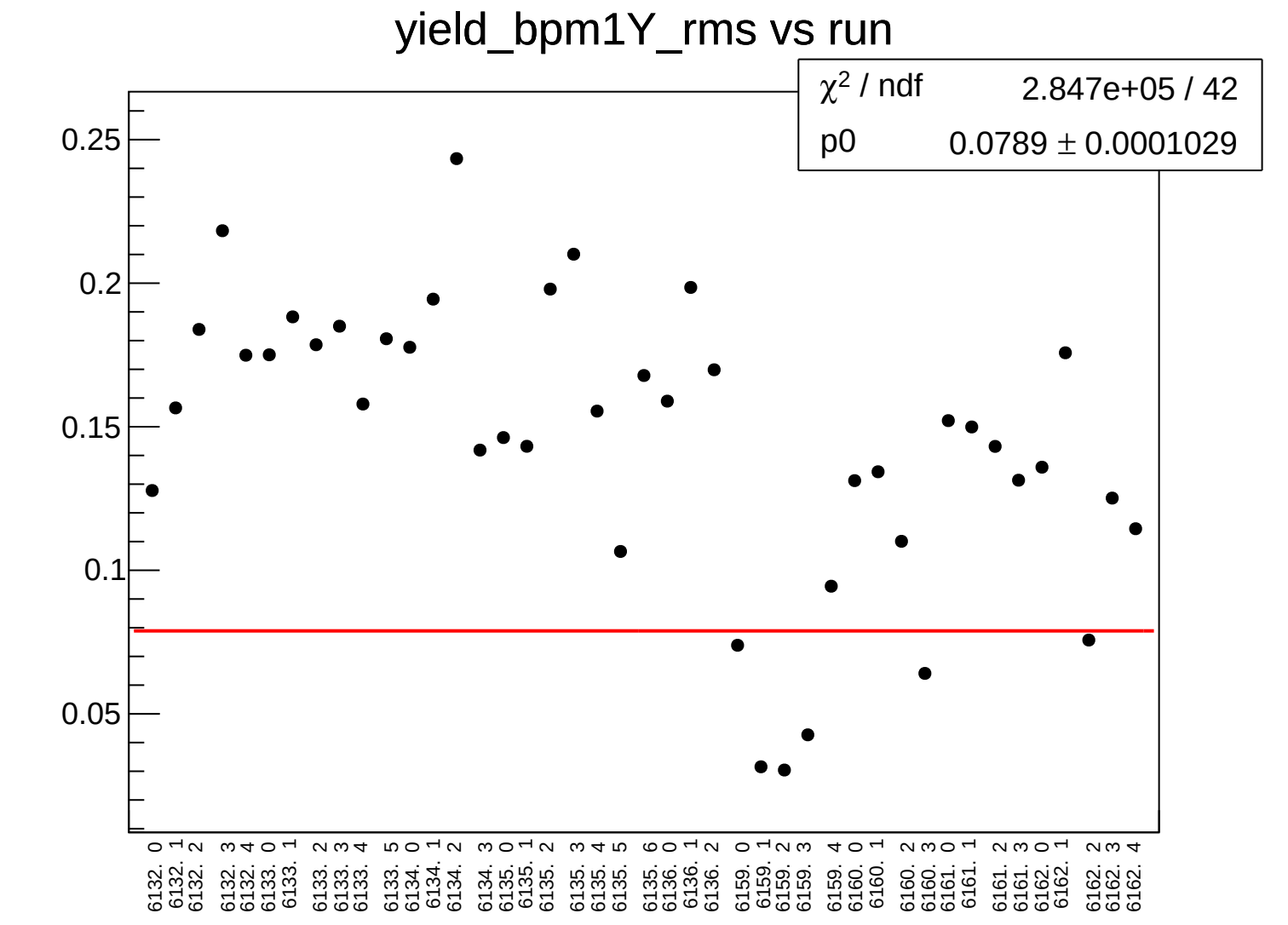

yield_bpm1X_mean vs run
χ² / ndf 1.763e+06 / 42
p0 1.069 ± 0.0001733
pull
Entries 43
Mean 8.409
Std Dev 3.176

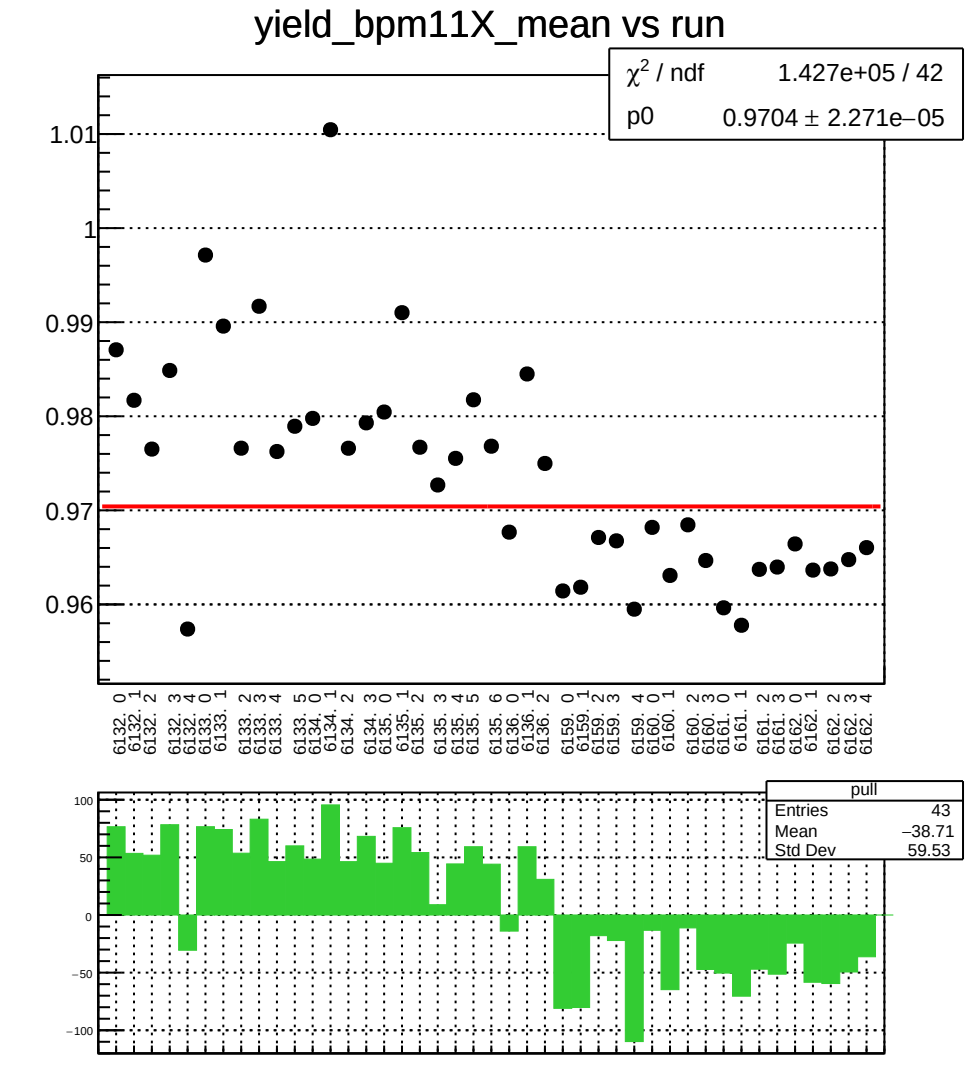

pull1D
Entries 43
Mean 3.488
Std Dev 0.5753

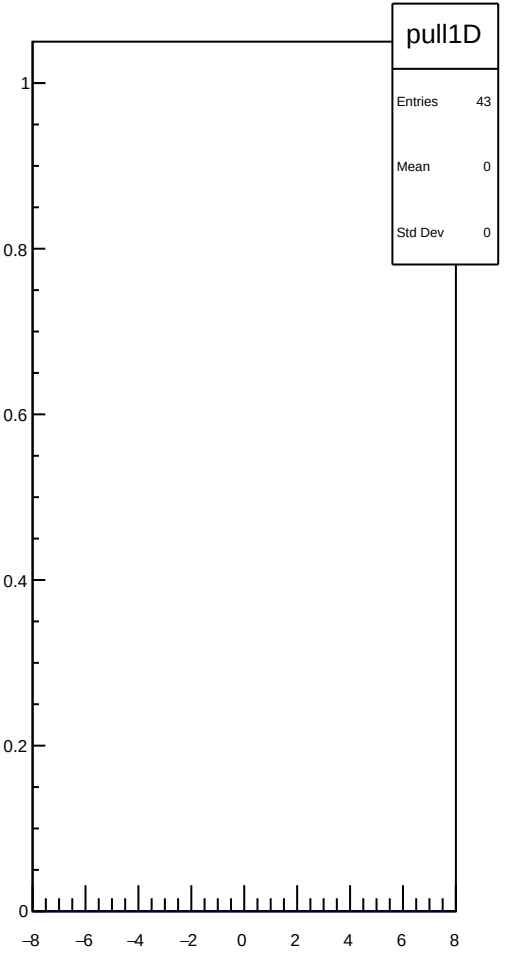

yield_bpm1X_rms vs run
χ² / ndf 3.14e+05 / 42
p0 0.09162 ± 0.0001225
0.3
0.25
0.2
0.15
0.1
0.05
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

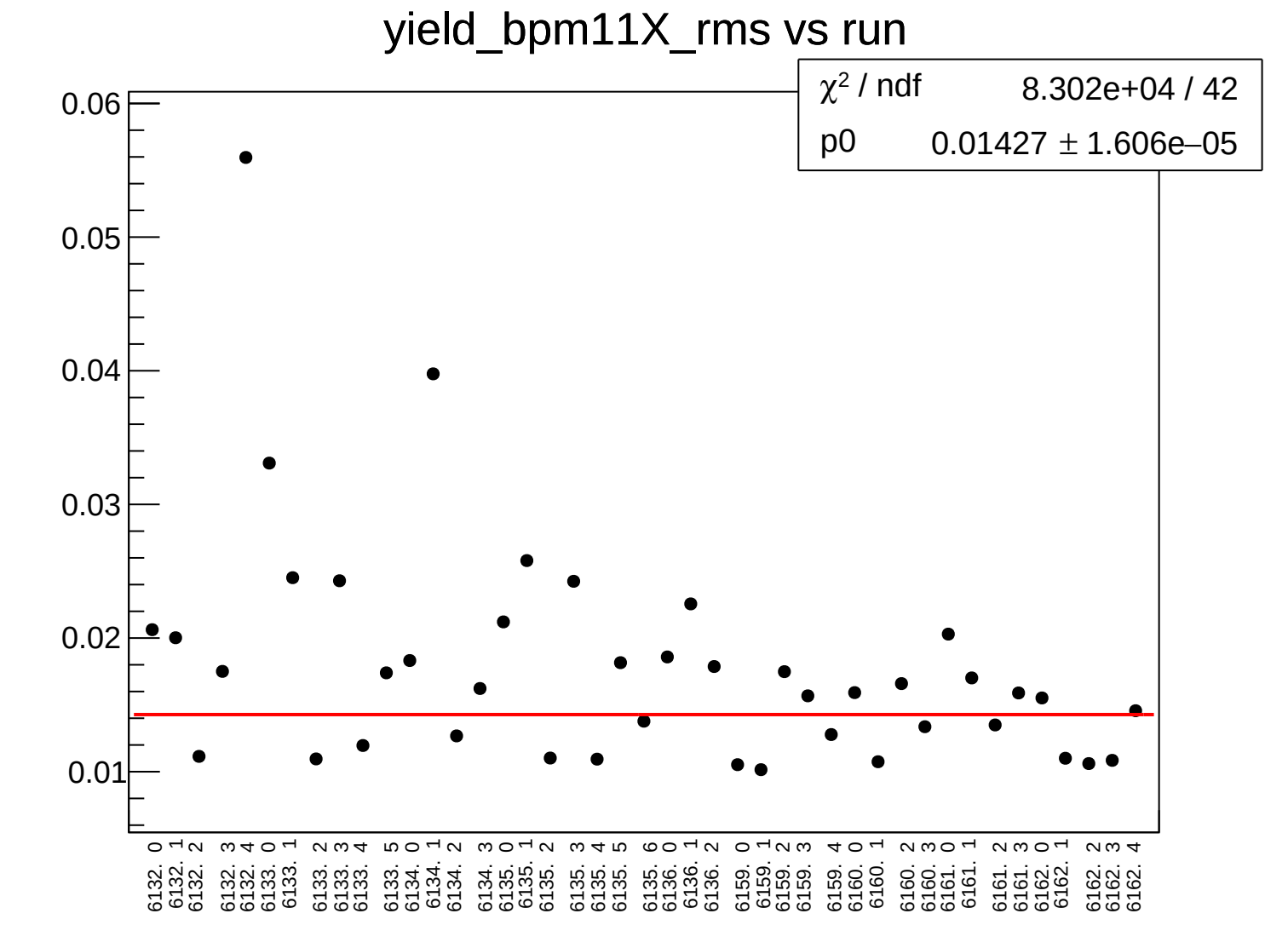

yield_bpm1Y_mean vs run
χ² / ndf 2.736e+08 / 42
p0 3.283 ± 0.0001455
pull
Entries 43
Mean 1.025
Std Dev 17.13

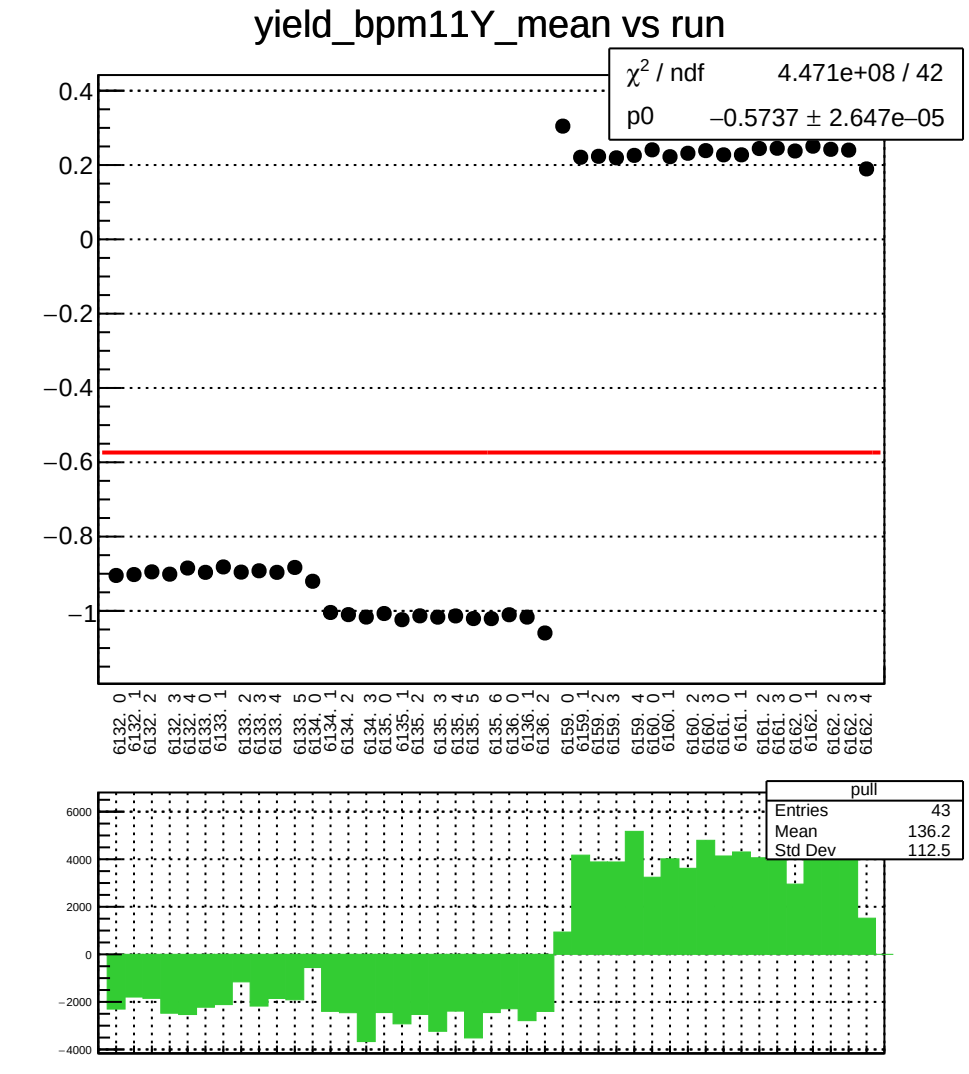

pull1D
Entries 43
Mean 0
Std Dev 0

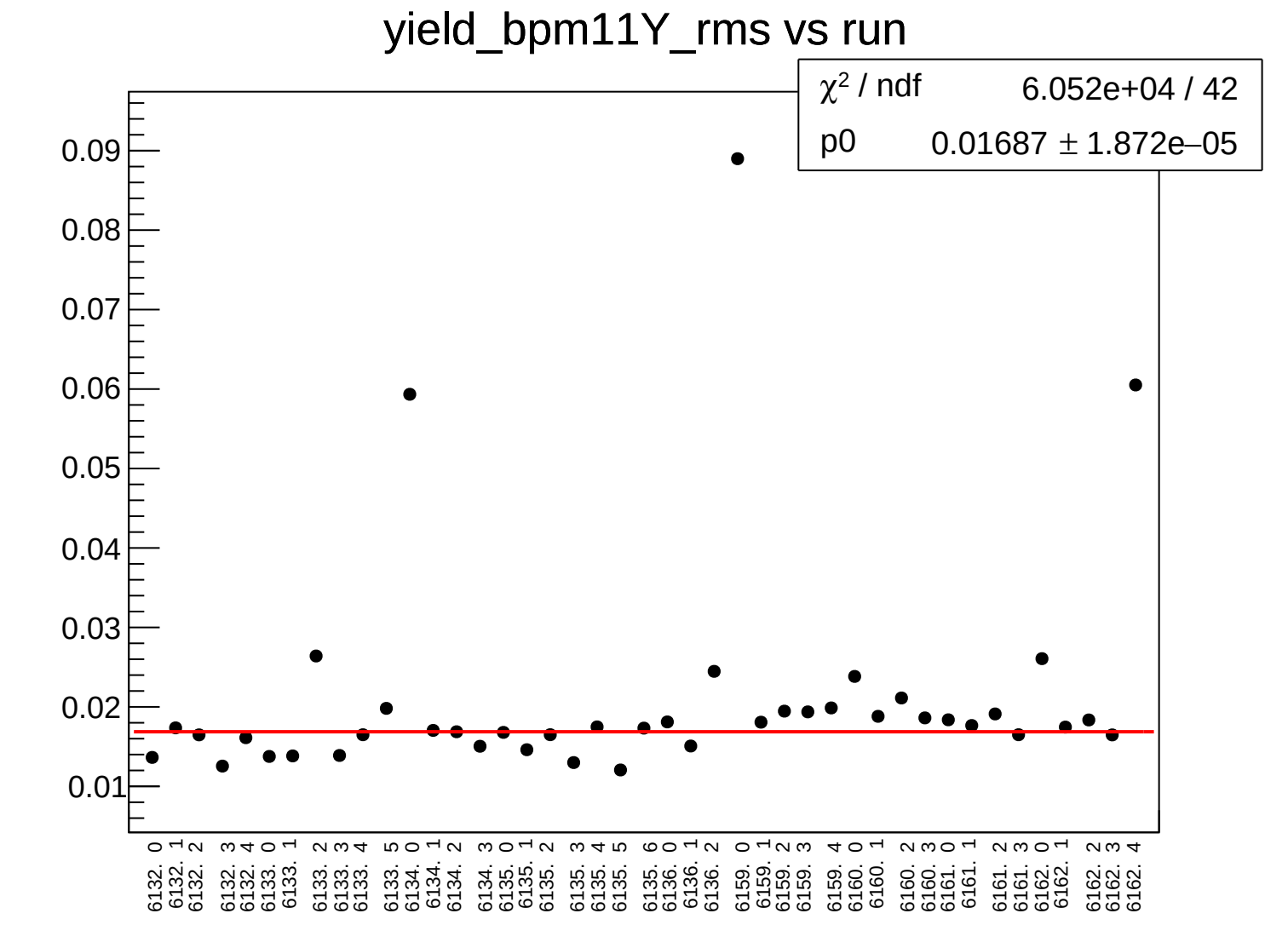

yield_bpm1Y_rms vs run
χ² / ndf 2.847e+05 / 42
p0 0.0789 ± 0.0001029
0.25
0.2
0.15
0.1
0.05
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

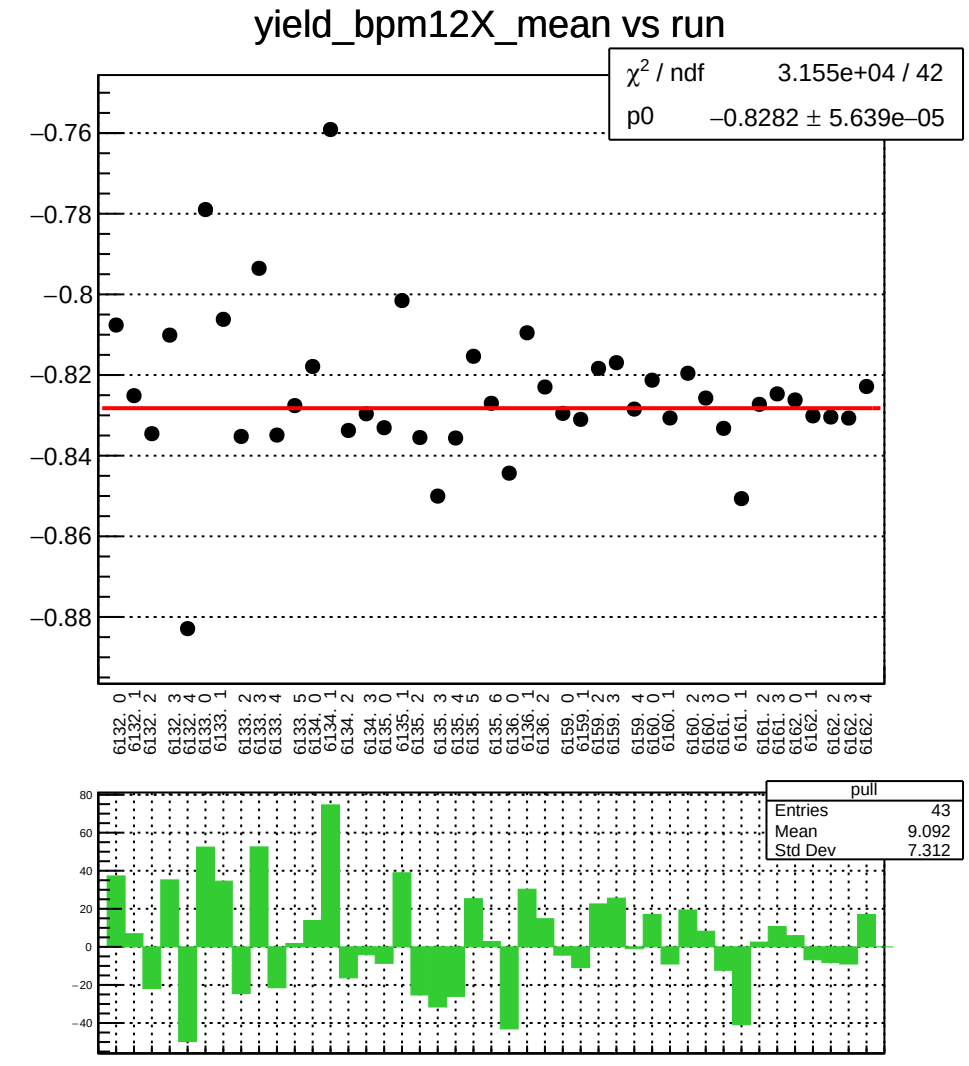

yield_bpm11X_mean vs run
χ² / ndf 1.427e+05 / 42
p0 0.9704 ± 2.271e−05
1.01
1
0.99
0.98
0.97
0.96
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −38.71
Std Dev 59.53
100
50
0
−50
−100

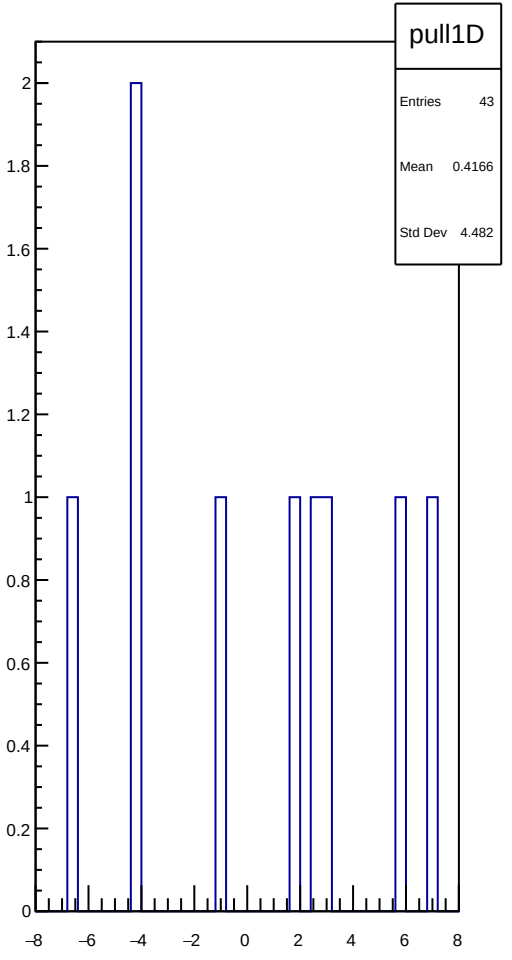

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

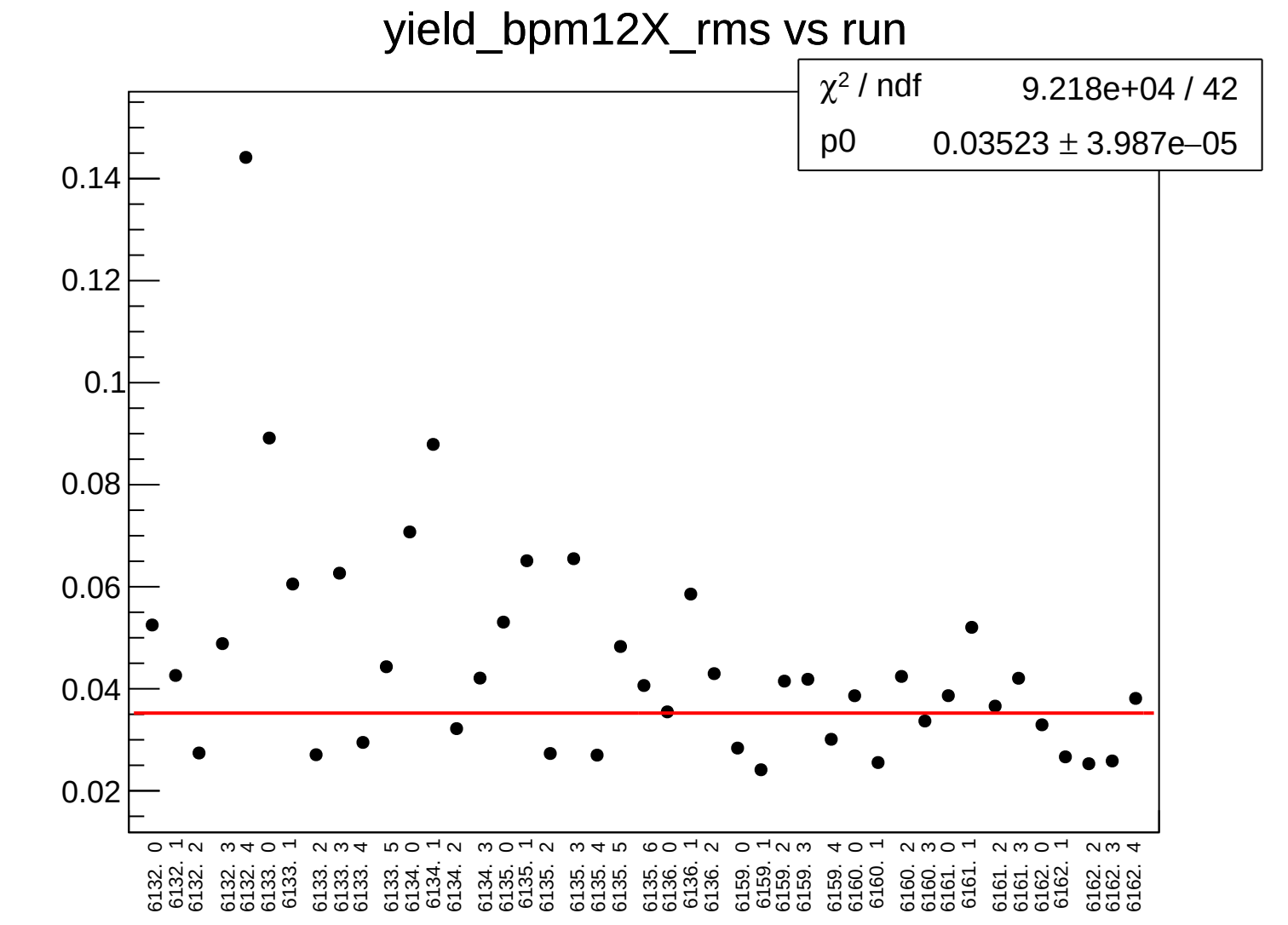

yield_bpm11X_rms vs run
χ² / ndf 8.302e+04 / 42
p0 0.01427 ± 1.606e−05
0.06
0.05
0.04
0.03
0.02
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

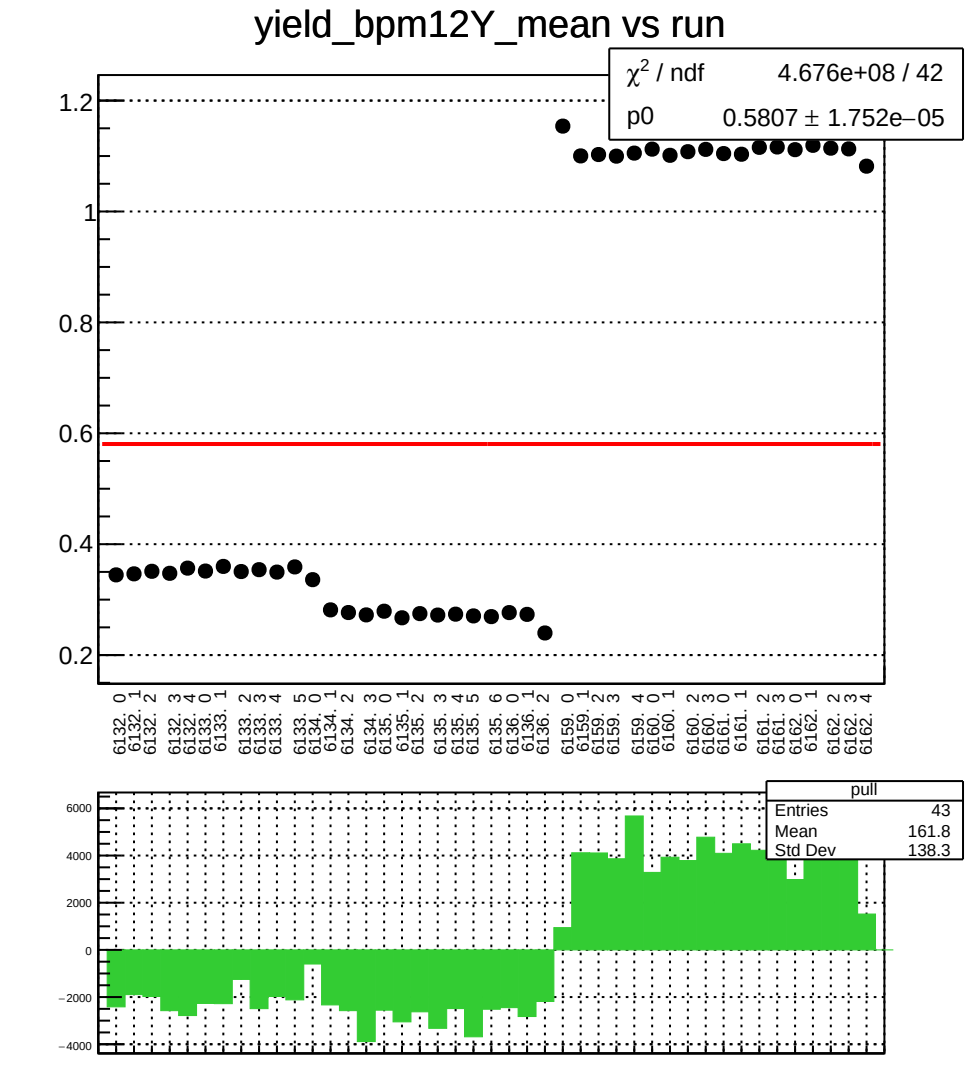

yield_bpm11Y_mean vs run
χ² / ndf 4.471e+08 / 42
p0 −0.5737 ± 2.647e−05
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 136.2
Std Dev 112.5
6000
4000
2000
0
−2000
−4000
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

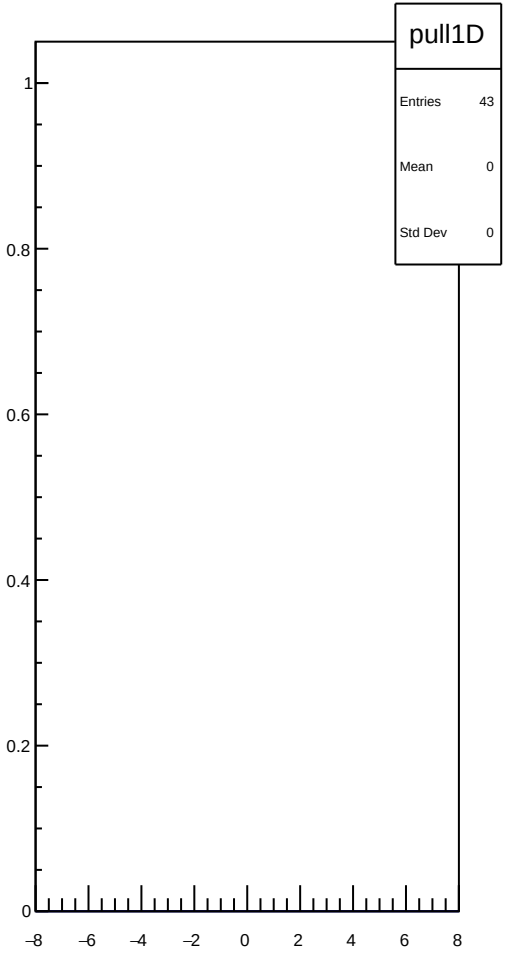

yield_bpm11Y_rms vs run
χ² / ndf 6.052e+04 / 42
p0 0.01687 ± 1.872e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

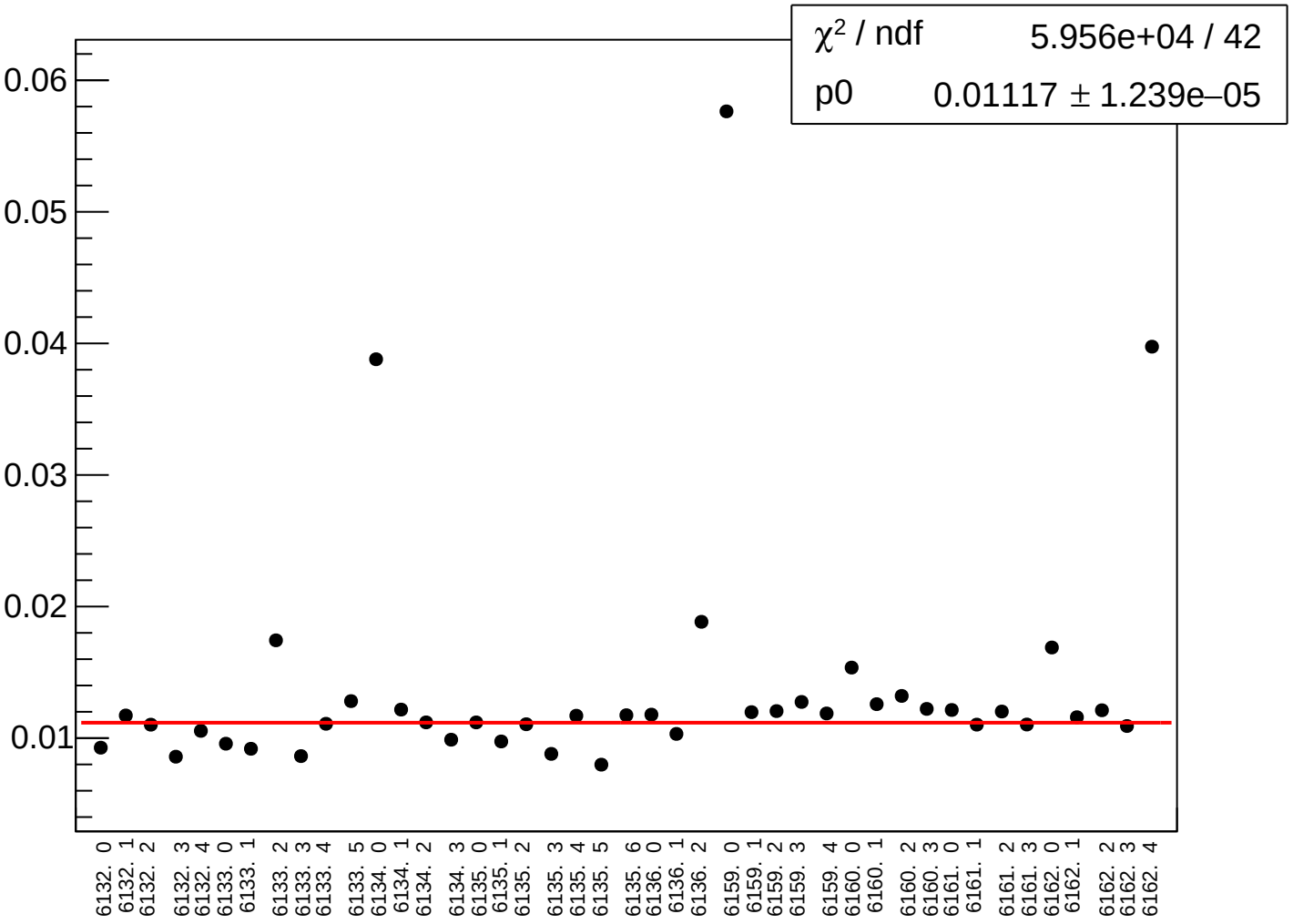

yield_bpm12X_mean vs run
χ² / ndf 3.155e+04 / 42
p0 −0.8282 ± 5.639e−05
−0.76
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 9.092
Std Dev 7.312
80
60
40
20
0
−20
−40

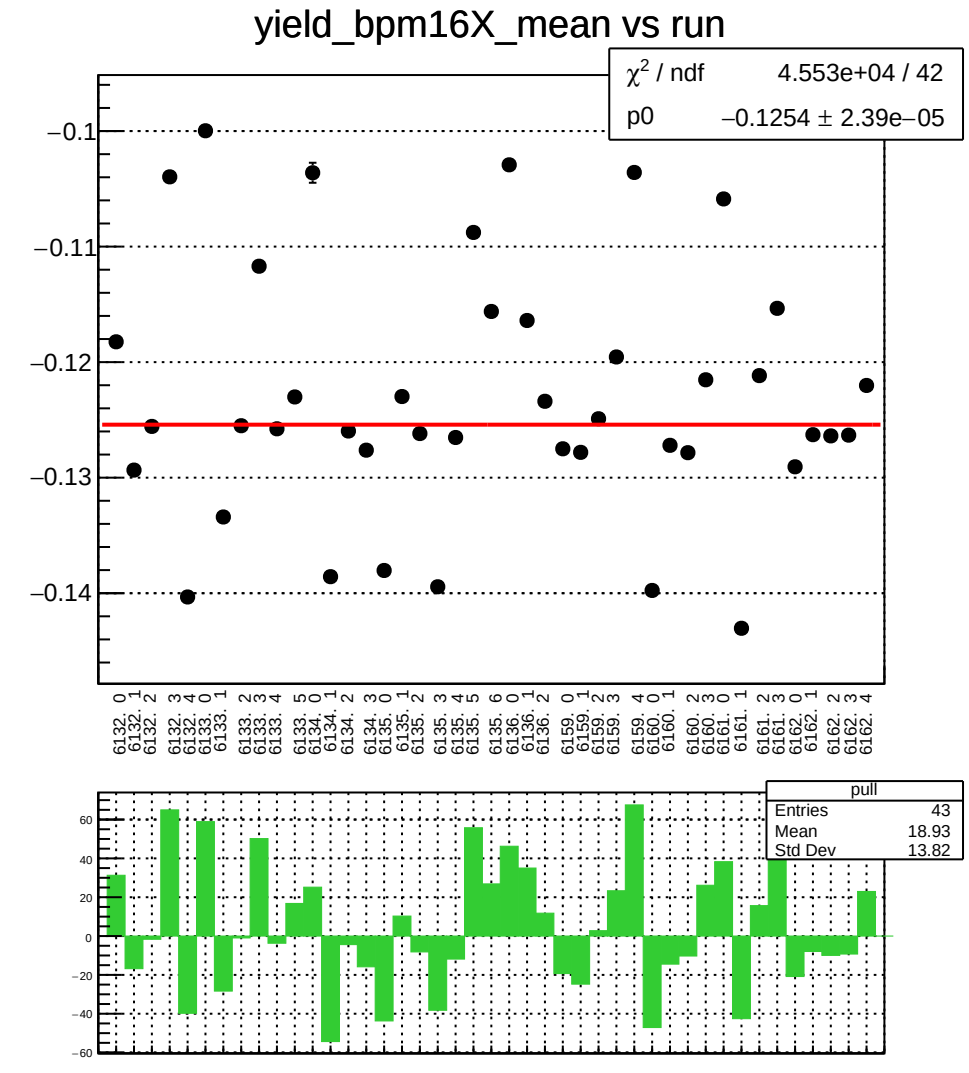

pull1D
Entries 43
Mean 0.4166
Std Dev 4.482
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

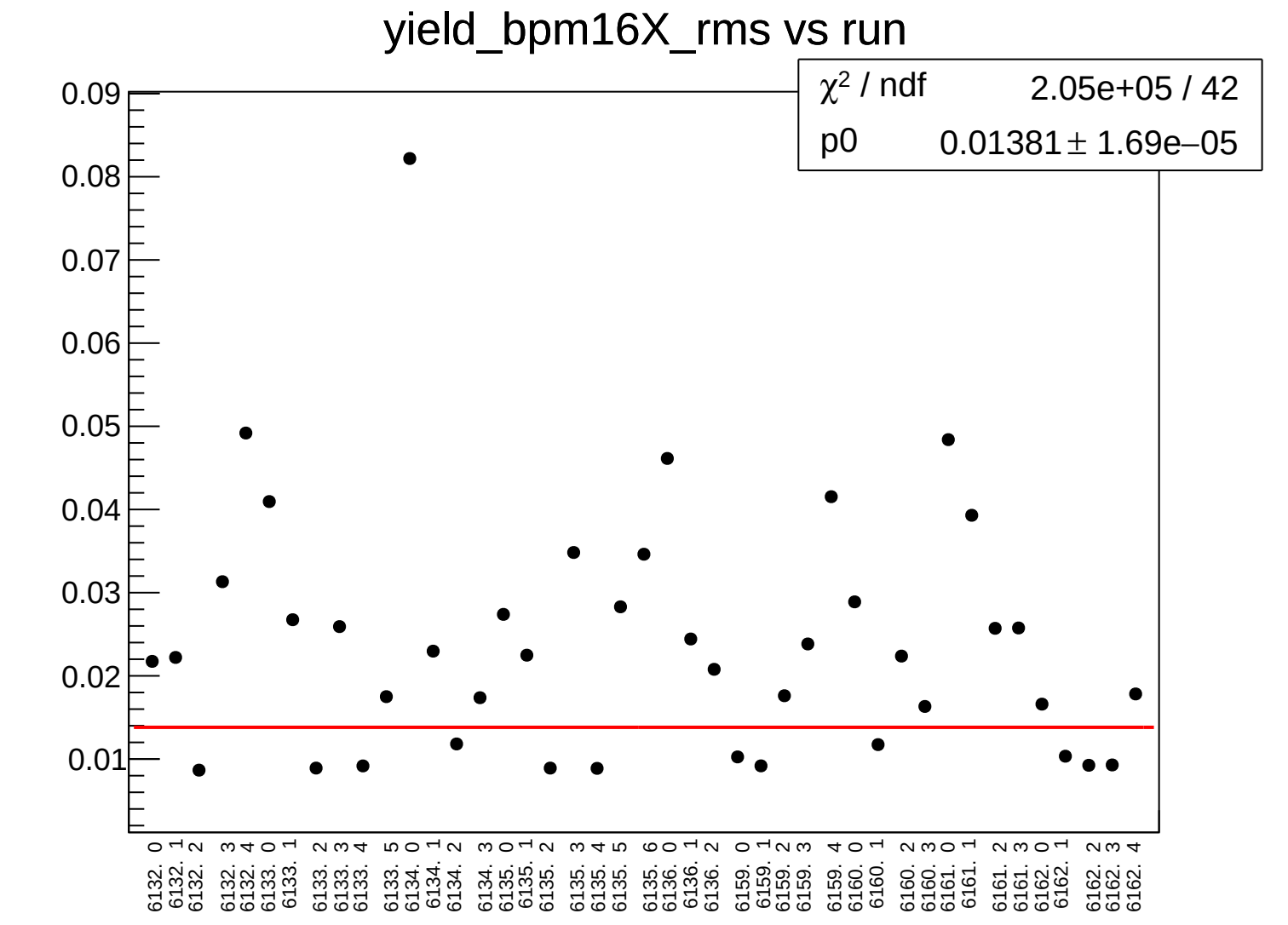

yield_bpm12X_rms vs run
χ² / ndf 9.218e+04 / 42
p0 0.03523 ± 3.987e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

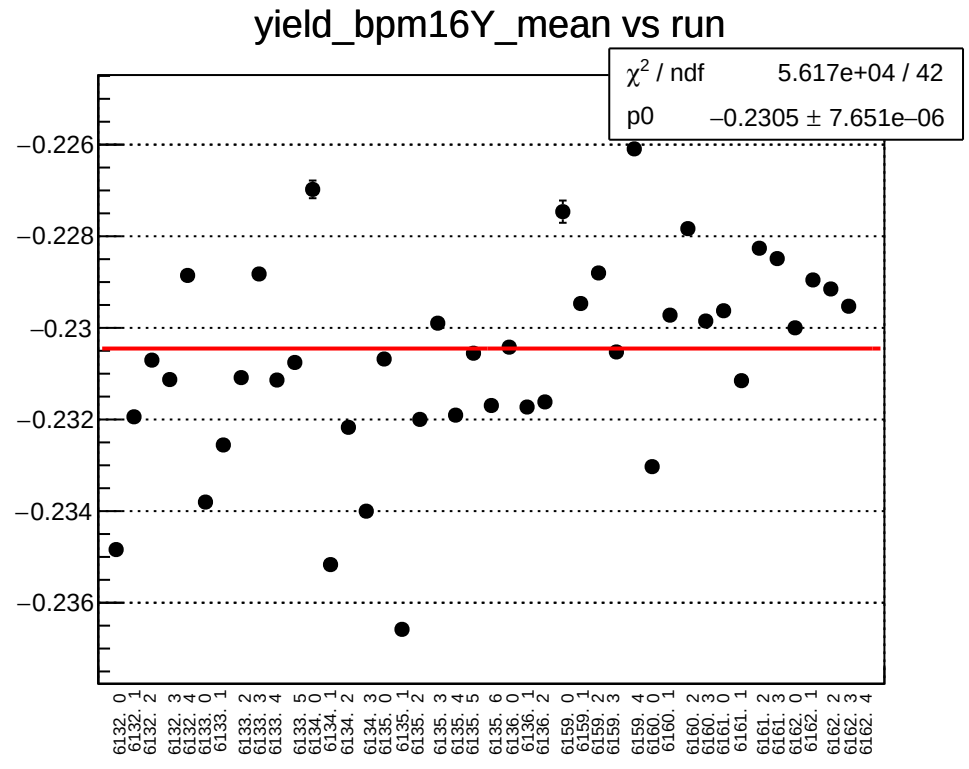

yield_bpm12Y_mean vs run
χ² / ndf 4.676e+08 / 42
p0 0.5807 ± 1.752e−05
1.2
1
0.8
0.6
0.4
0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 161.8
Std Dev 138.3
6000
4000
2000
0
−2000
−4000

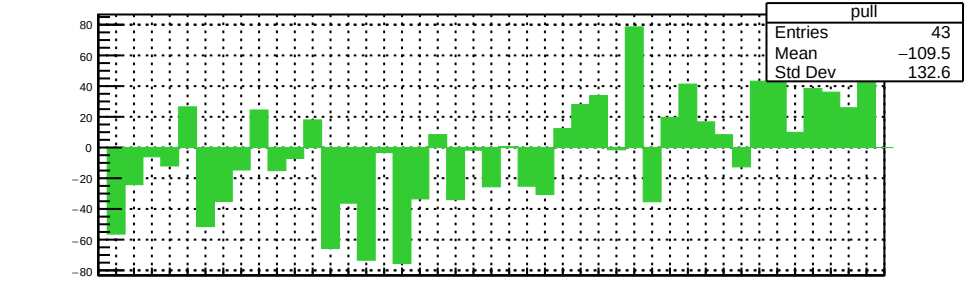

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

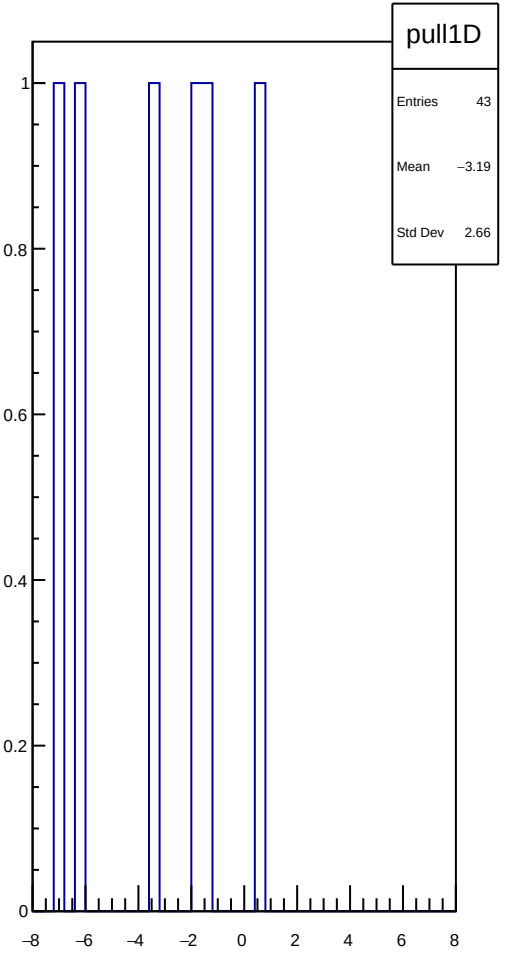

yield_bpm12Y_rms vs run
χ² / ndf 5.956e+04 / 42
p0 0.01117 ± 1.239e–05
0.06
0.05
0.04
0.03
0.02
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

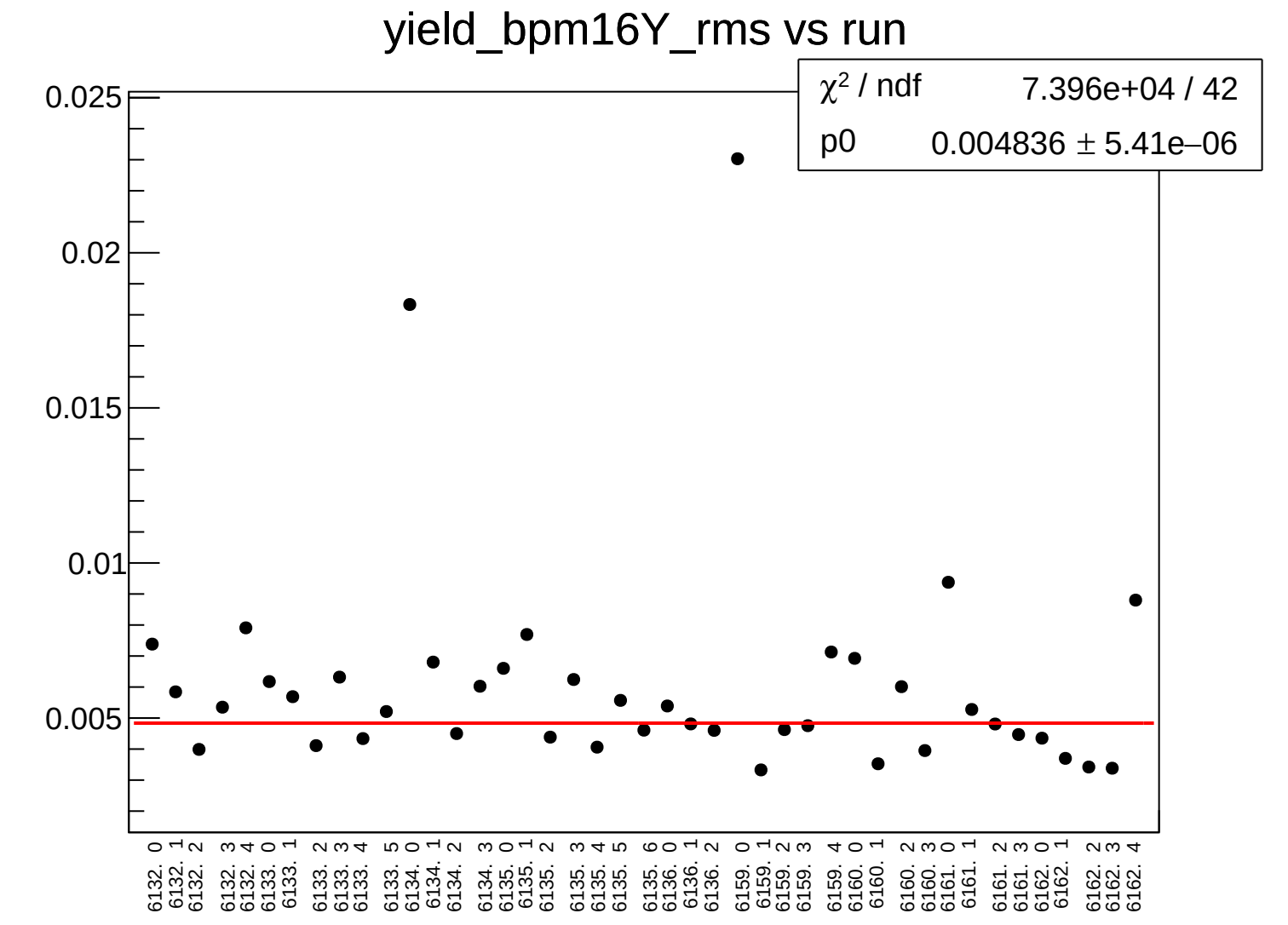

yield_bpm16X_mean vs run
χ² / ndf 4.553e+04 / 42
p0 −0.1254 ± 2.39e−05
−0.1
−0.11
−0.12
−0.13
−0.14
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 18.93
Std Dev 13.82
60
40
20
0
−20
−40
−60
pull1D
Entries 43
Mean −2.647
Std Dev 3.3
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

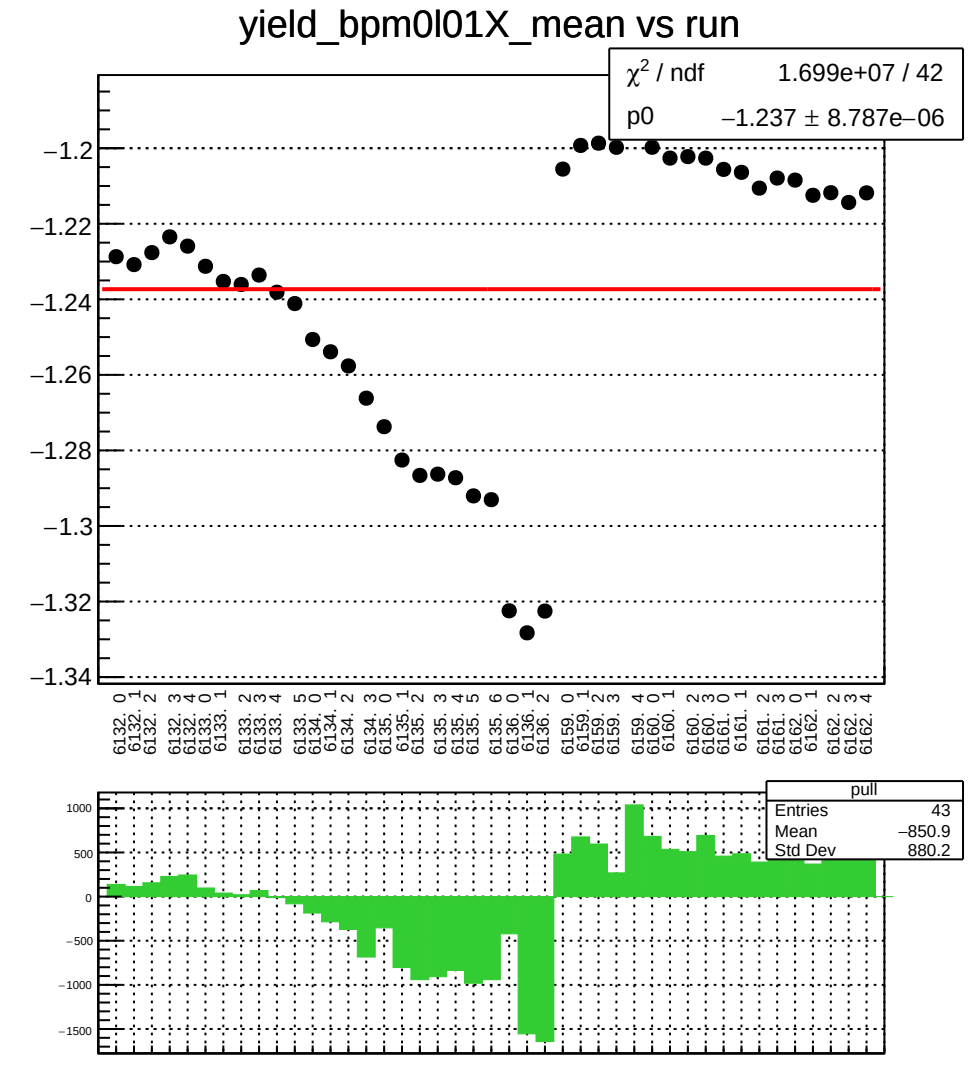

yield_bpm16X_rms vs run
χ² / ndf 2.05e+05 / 42
p0 0.01381 ± 1.69e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

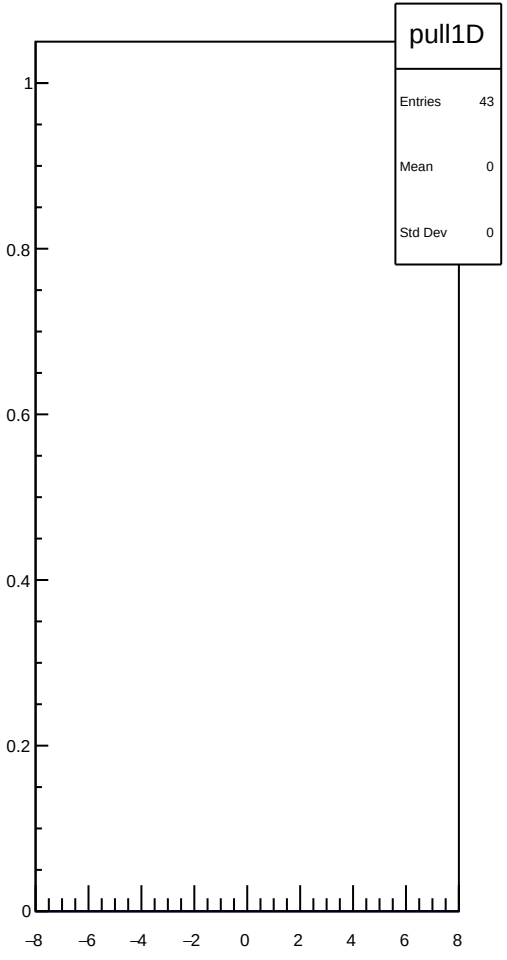

yield_bpm16Y_mean vs run
χ² / ndf 5.617e+04 / 42
p0 −0.2305 ± 7.651e−06
−0.226
−0.228
−0.23
−0.232
−0.234
−0.236
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

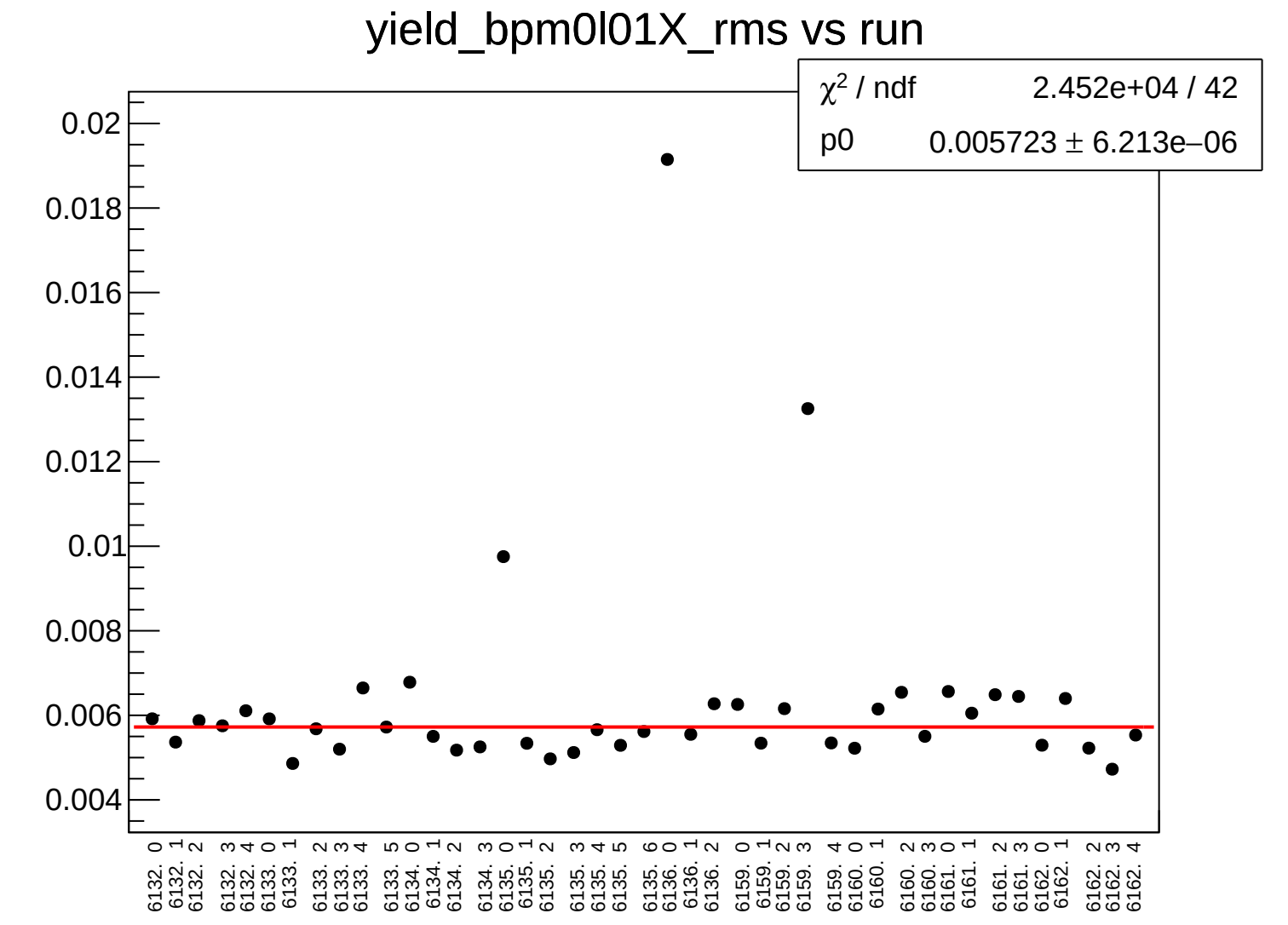

pull
Entries 43
Mean −109.5
Std Dev 132.6
80
60
40
20
0
−20
−40
−60
−80

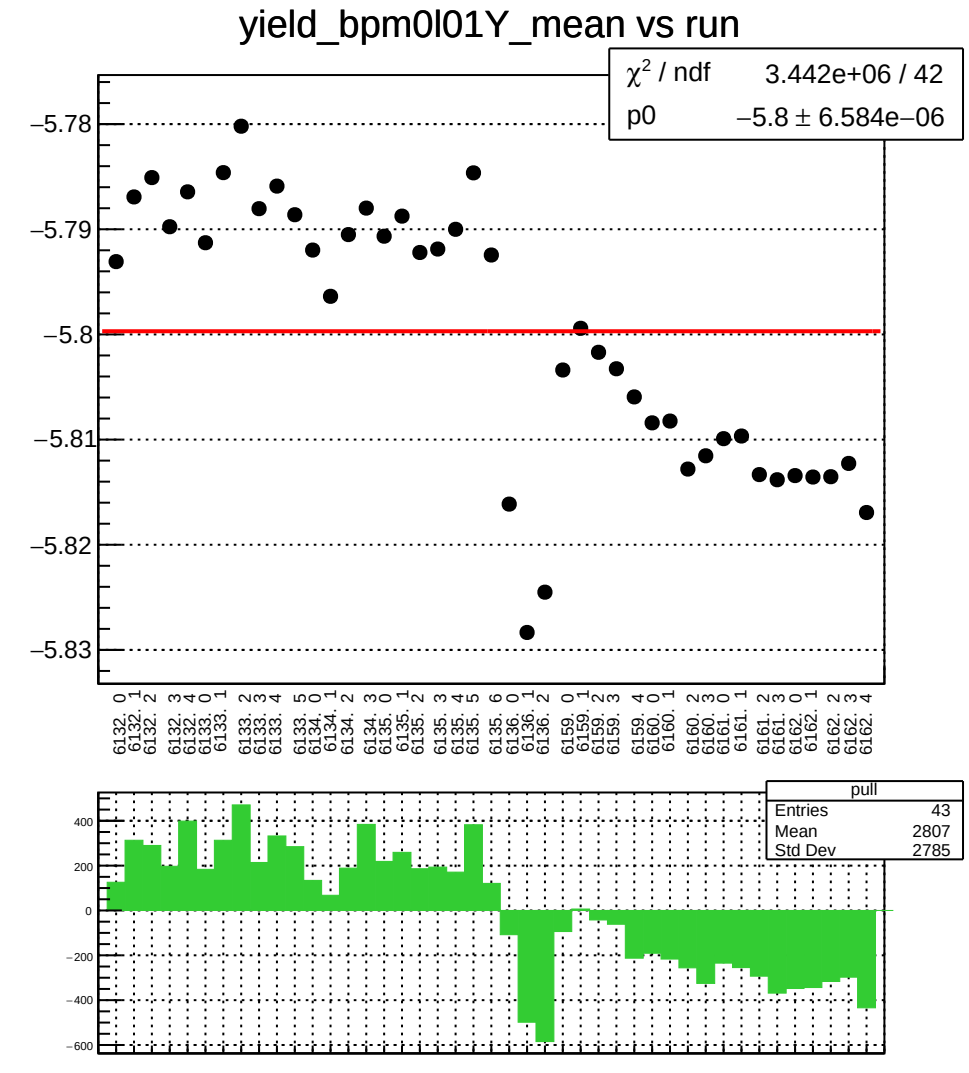

pull1D
Entries 43
Mean −3.19
Std Dev 2.66
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

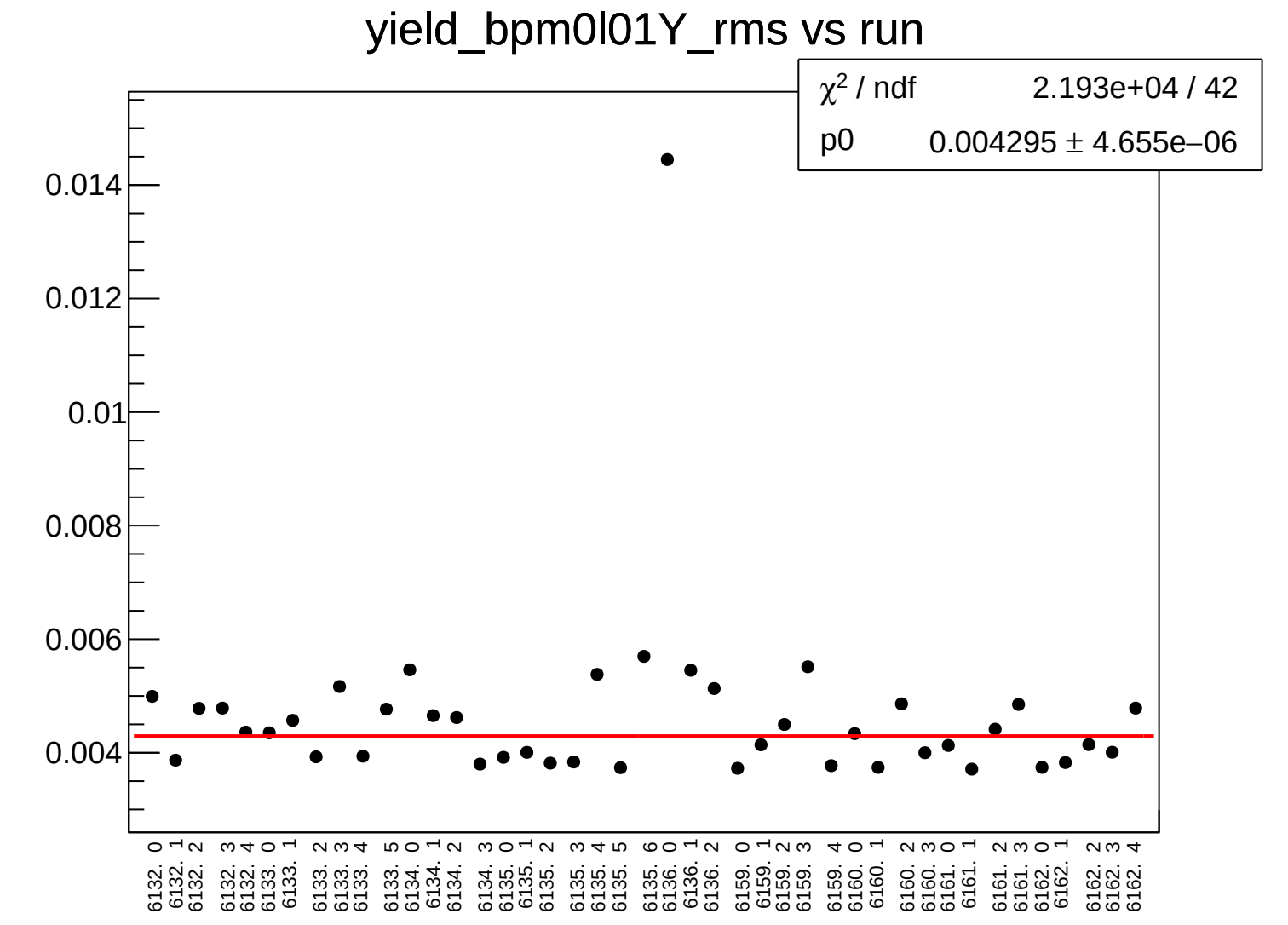

yield_bpm16Y_rms vs run
χ² / ndf 7.396e+04 / 42
p0 0.004836 ± 5.41e–06
0.025
0.02
0.015
0.01
0.005
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

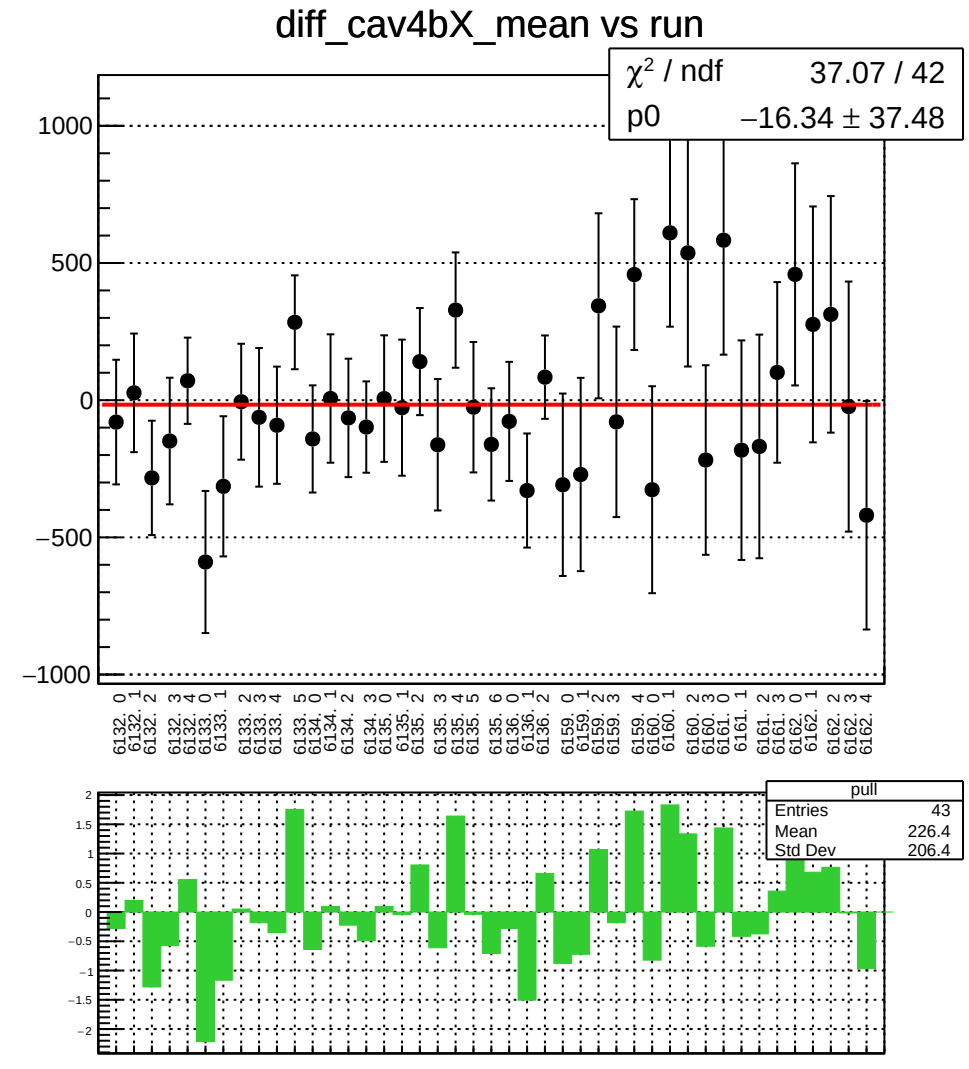

yield_bpm0l01X_mean vs run
χ² / ndf 1.699e+07 / 42
p0 −1.237 ± 8.787e−06
−1.2
−1.22
−1.24
−1.26
−1.28
−1.3
−1.32
−1.34
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −850.9
Std Dev 880.2
1000
500
0
−500
−1000
−1500

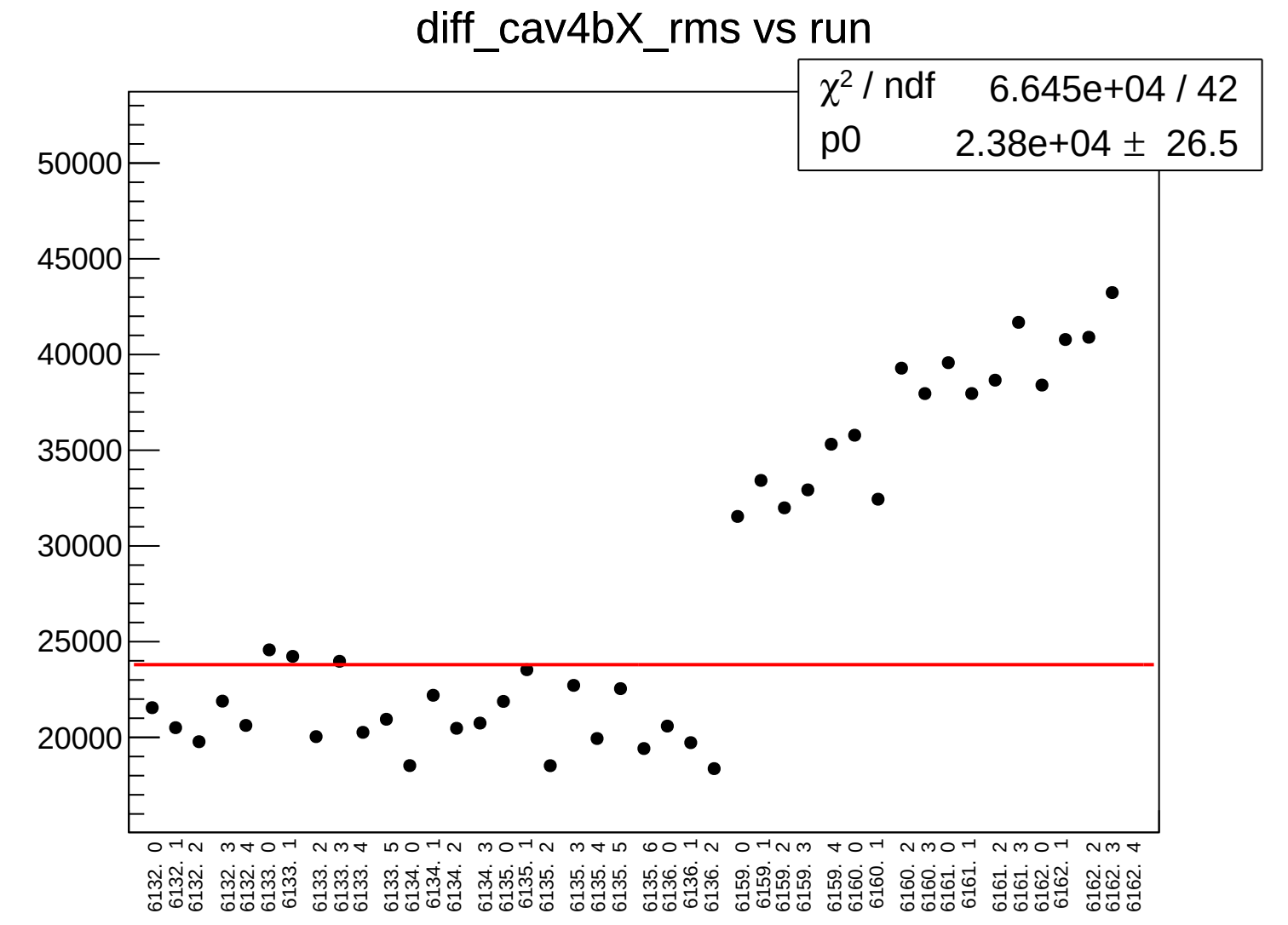

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

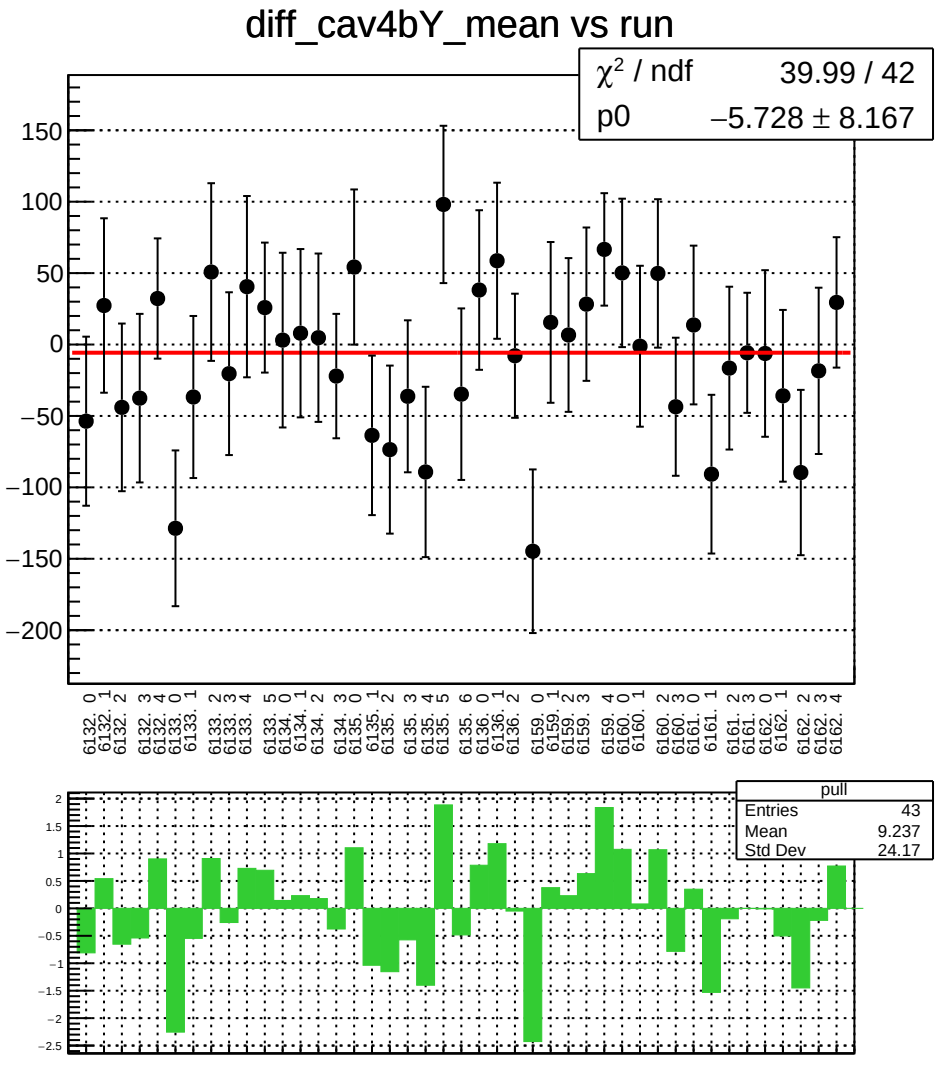

yield_bpm0l01X_rms vs run
χ² / ndf 2.452e+04 / 42
p0 0.005723 ± 6.213e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

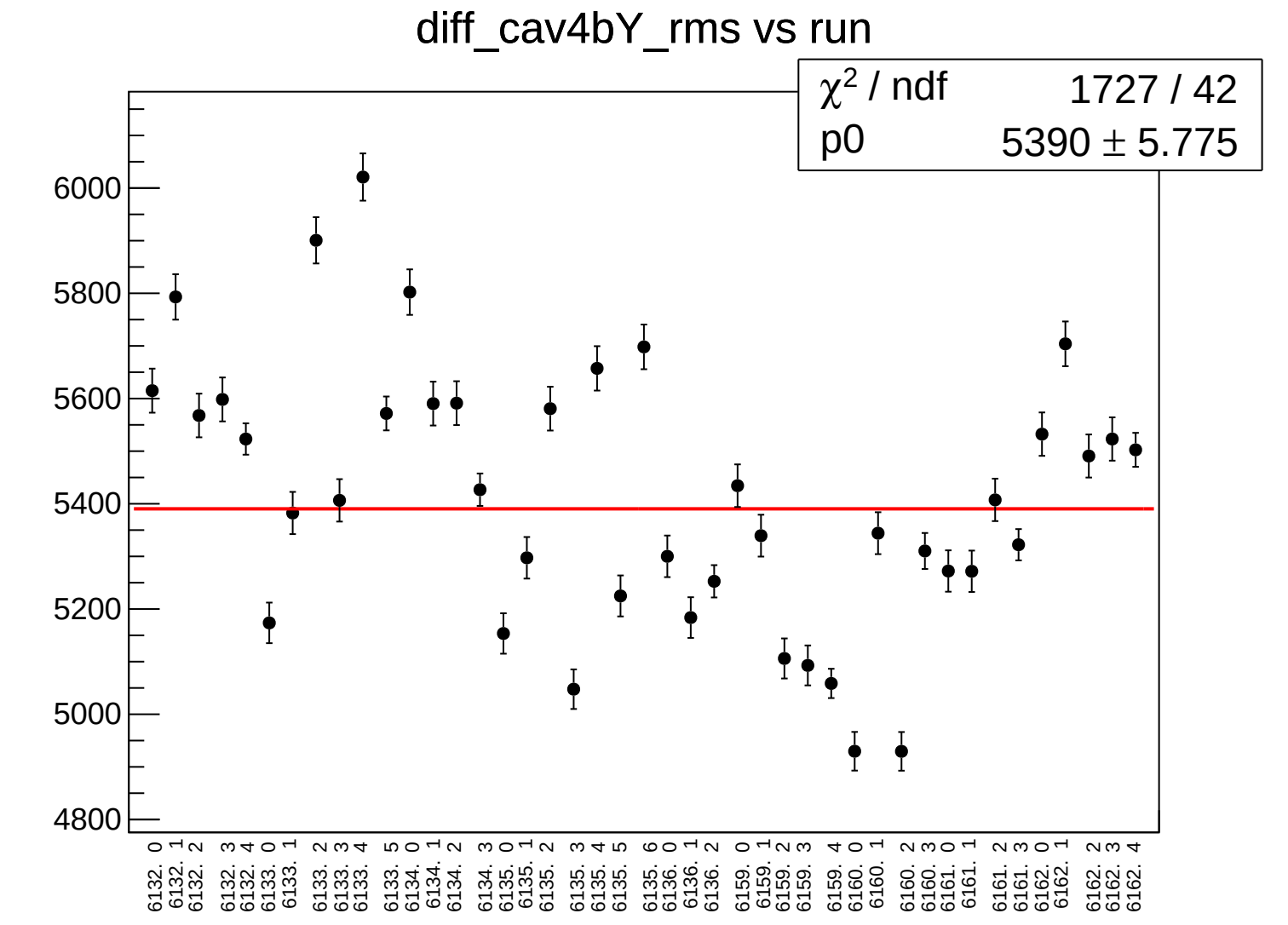

yield_bpm0l01Y_mean vs run
χ² / ndf 3.442e+06 / 42
p0 −5.8 ± 6.584e−06
−5.78
−5.79
−5.8
−5.81
−5.82
−5.83
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 2807
Std Dev 2785
400
200
0
−200
−400
−600
pull1D
Entries 43
Mean 6.404
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

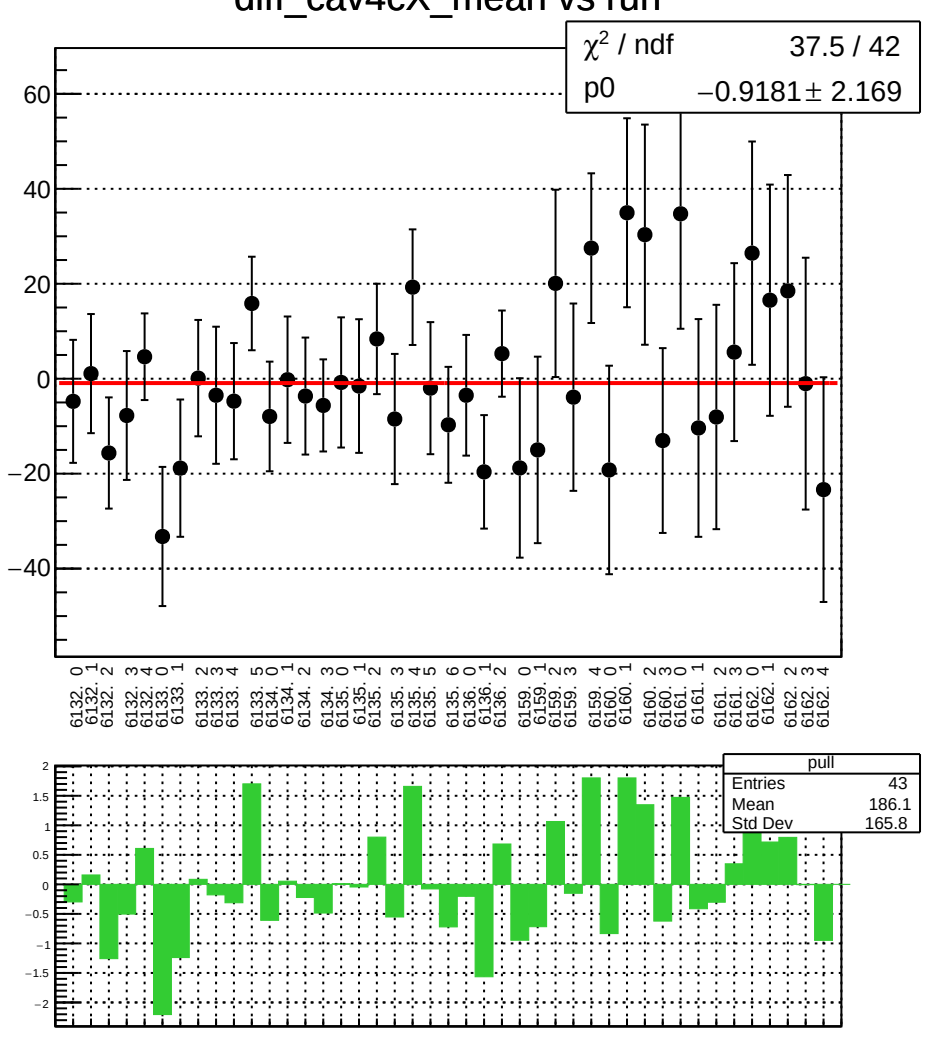

yield_bpm0l01Y_rms vs run
χ² / ndf 2.193e+04 / 42
p0 0.004295 ± 4.655e−06
0.014
0.012
0.01
0.008
0.006
0.004
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

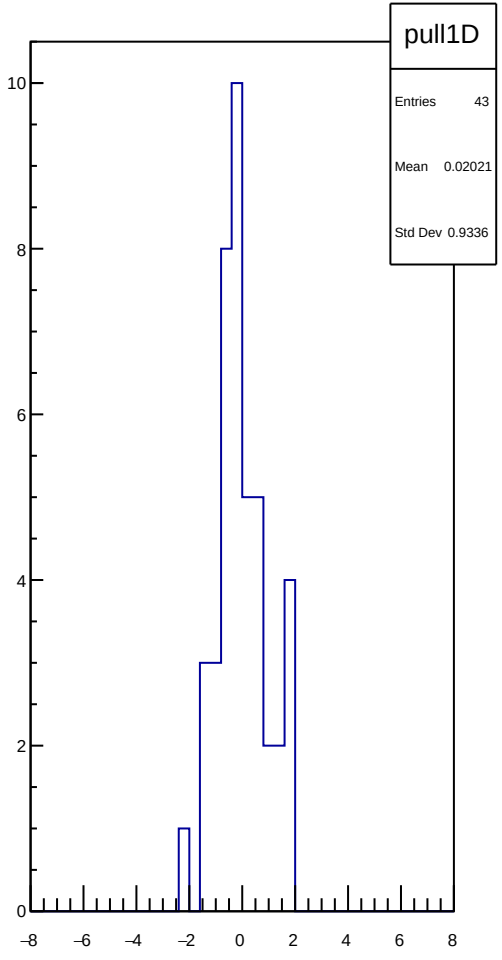

diff_cav4bX_mean vs run
χ² / ndf 37.07 / 42
p0 −16.34 ± 37.48
1000
500
0
−500
−1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 226.4
Std Dev 206.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01596
Std Dev 0.9283
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

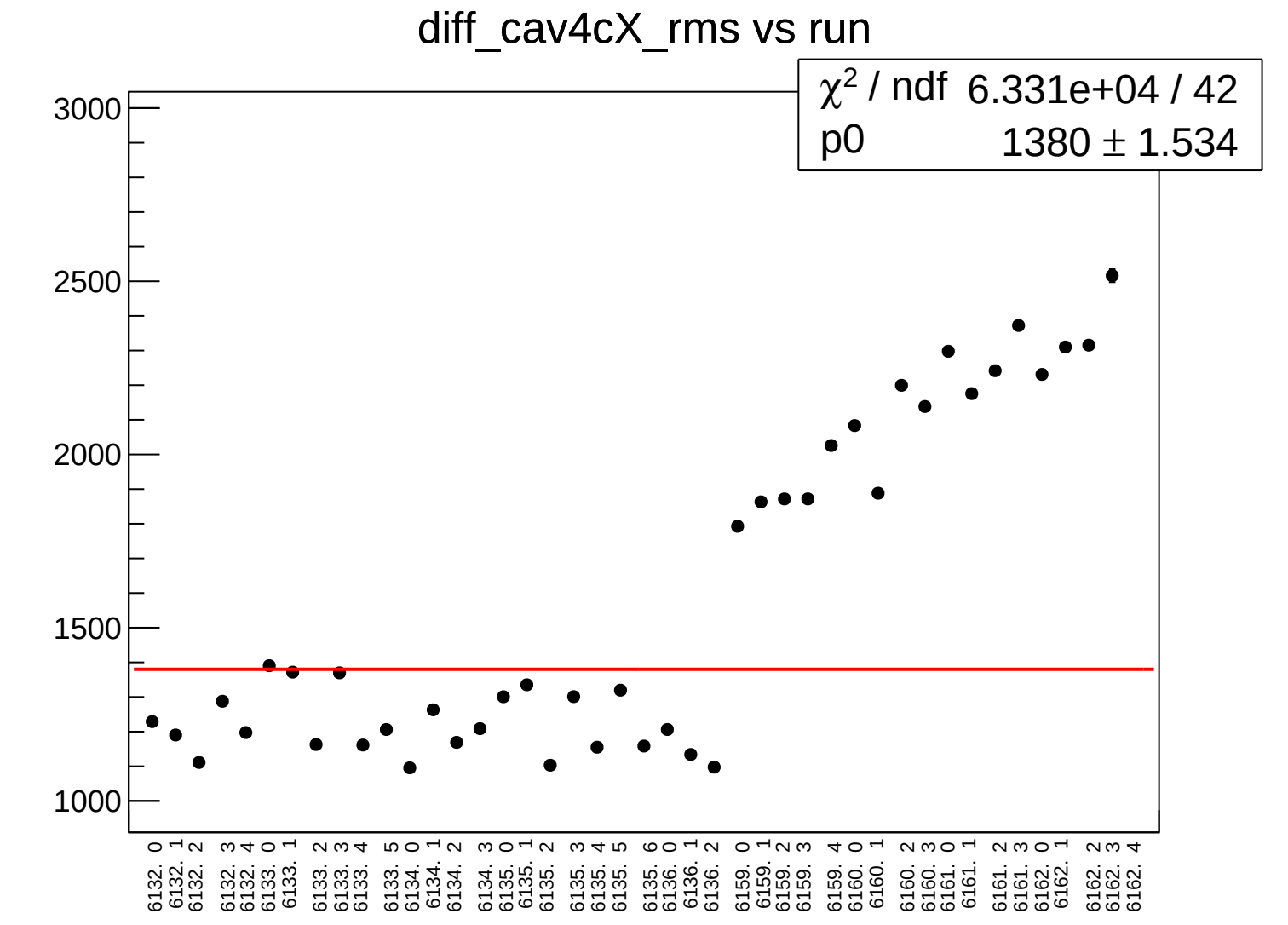

diff_cav4bX_rms vs run
χ² / ndf 6.645e+04 / 42
p0 2.38e+04 ± 26.5
50000
45000
40000
35000
30000
25000
20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

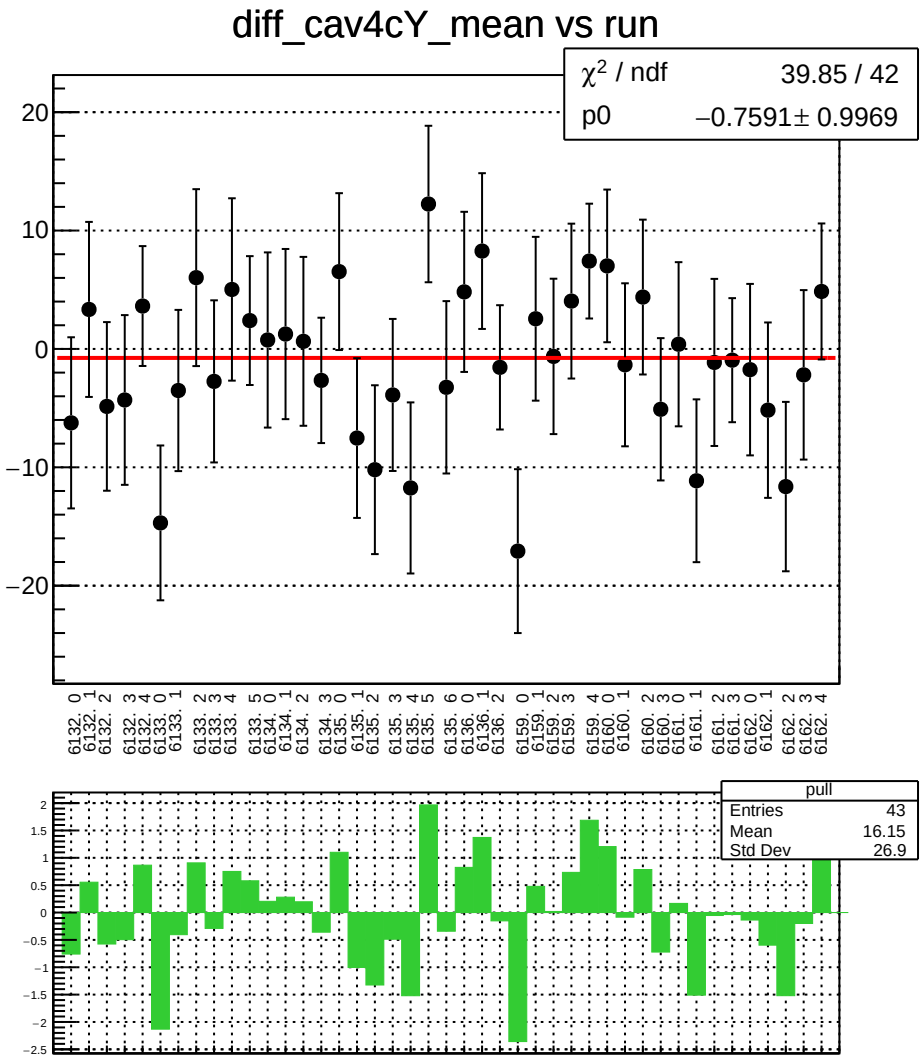

diff_cav4bY_mean vs run
χ² / ndf 39.99 / 42
p0 −5.728 ± 8.167
150
100
50
0
−50
−100
−150
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 9.237
Std Dev 24.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.03576
Std Dev 0.9637
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

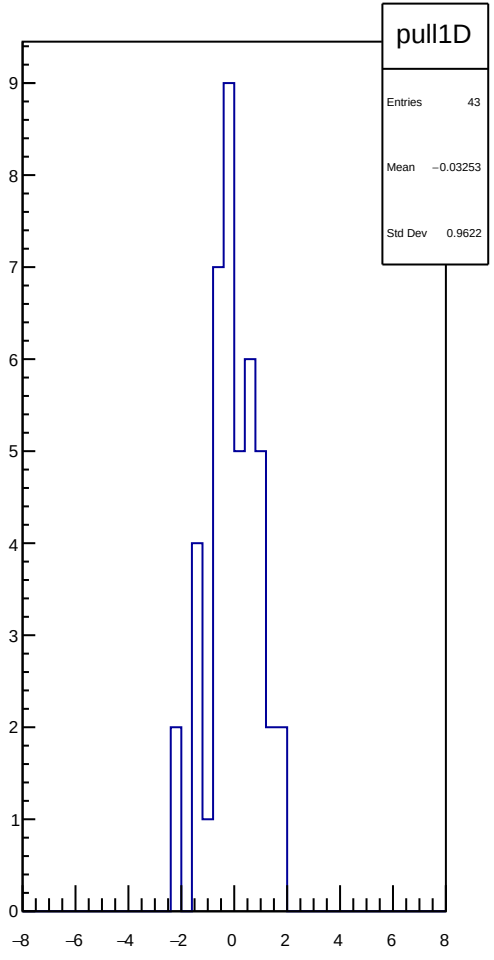

diff_cav4bY_rms vs run
χ² / ndf 1727 / 42
p0 5390 ± 5.775
6000
5800
5600
5400
5200
5000
4800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

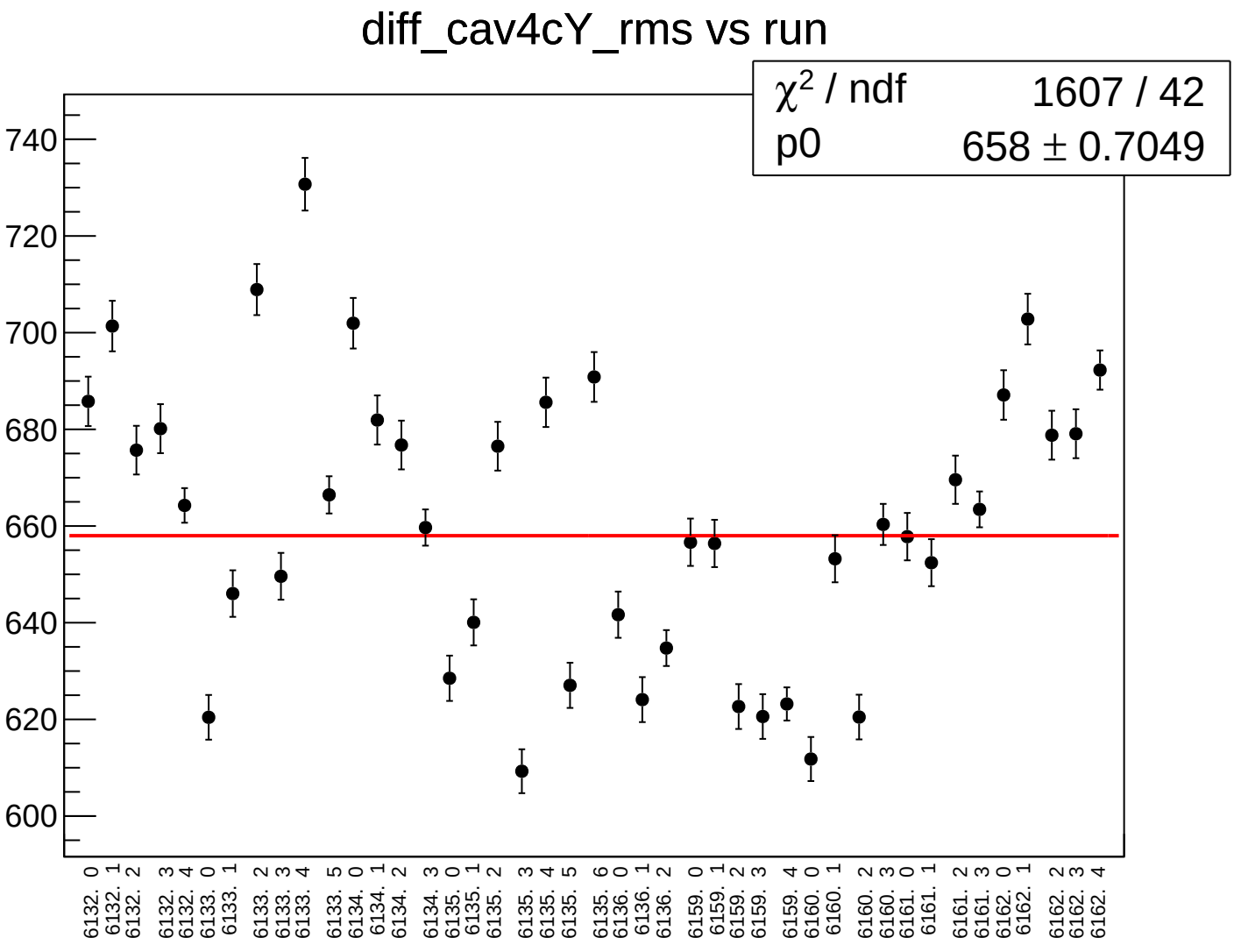

diff_cav4cX_mean vs run
χ² / ndf 37.5 / 42
p0 −0.9181 ± 2.169
60
40
20
0
−20
−40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 186.1
Std Dev 165.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

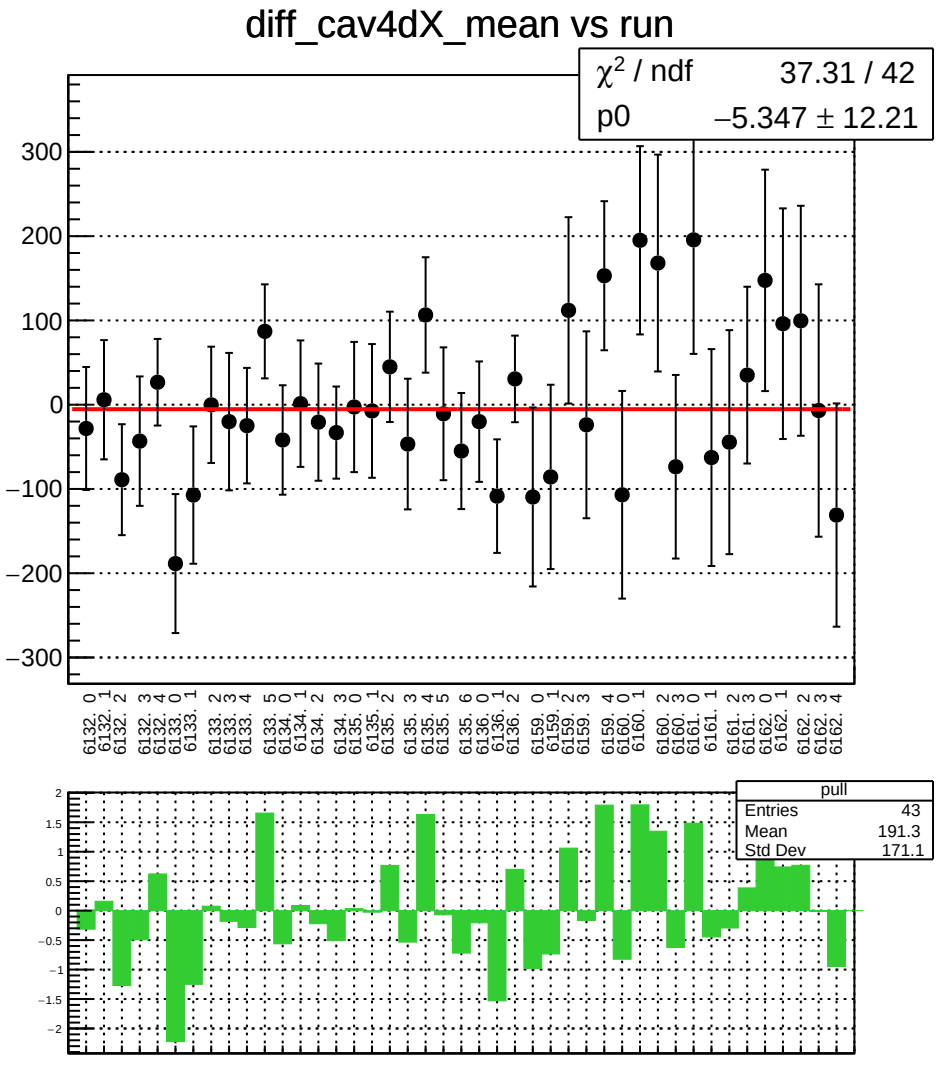

pull1D
Entries 43
Mean 0.02021
Std Dev 0.9336
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

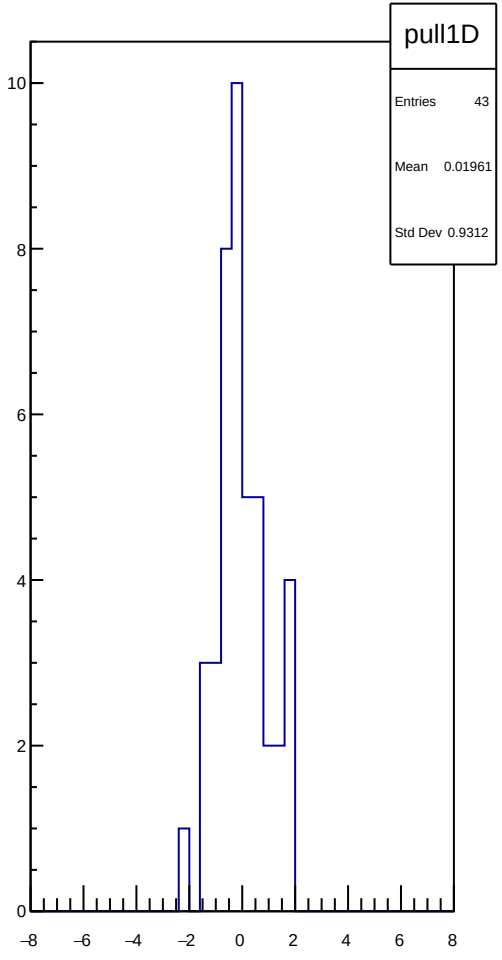

diff_cav4cX_rms vs run
χ² / ndf 6.331e+04 / 42
p0 1380 ± 1.534
3000
2500
2000
1500
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

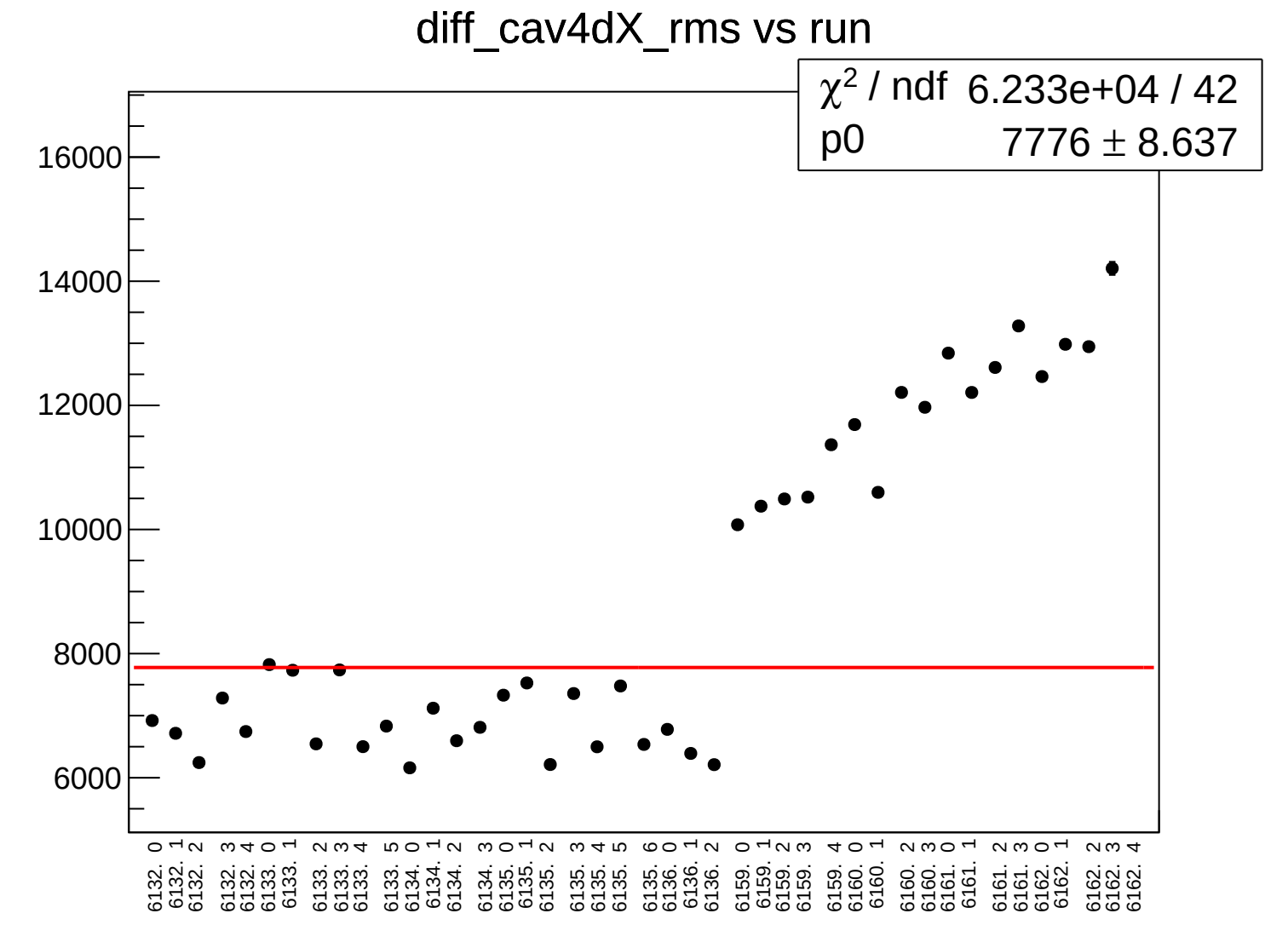

diff_cav4cY_mean vs run
χ² / ndf 39.85 / 42
p0 −0.7591± 0.9969
20
10
0
−10
−20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 16.15
Std Dev 26.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

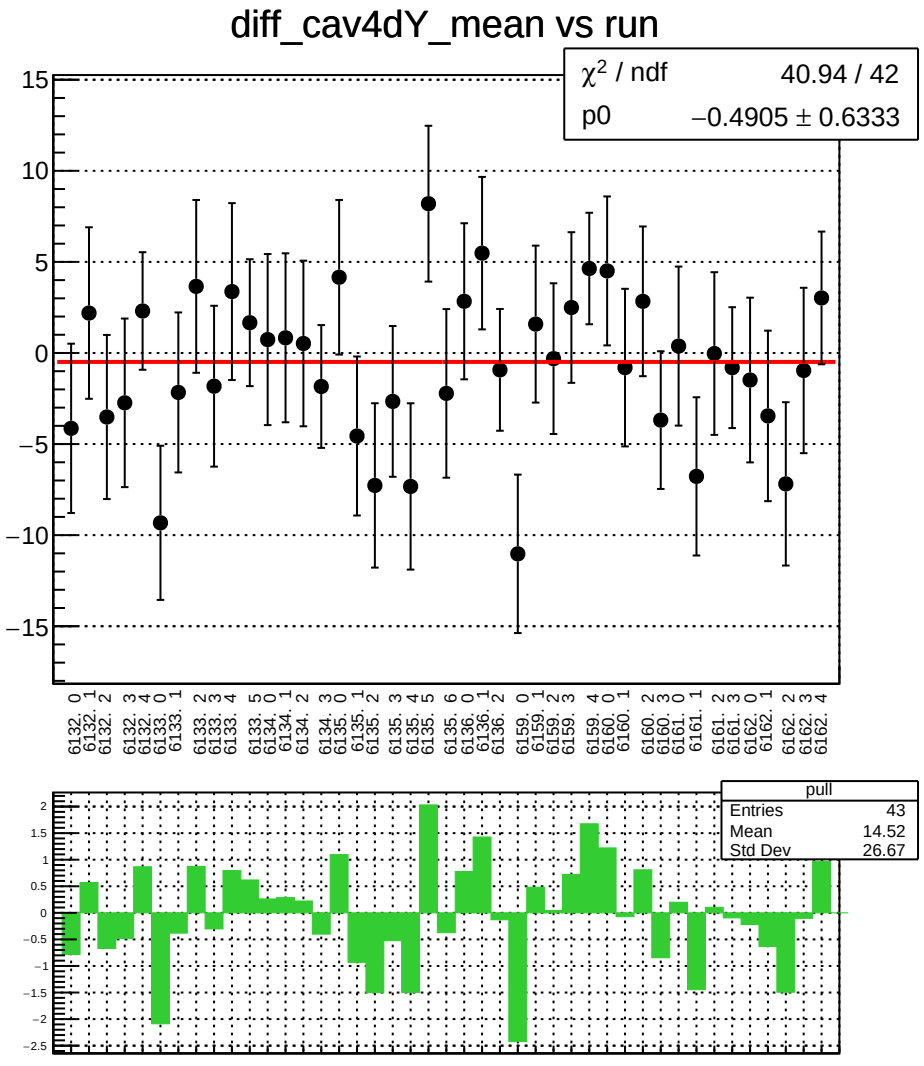

pull1D
Entries 43
Mean −0.03253
Std Dev 0.9622
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

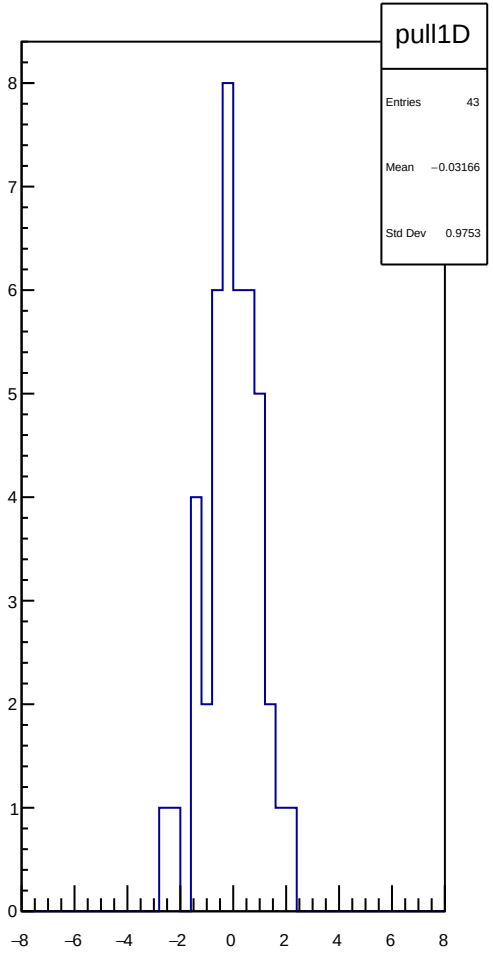

diff_cav4cY_rms vs run
χ² / ndf 1607 / 42
p0 658 ± 0.7049
740
720
700
680
660
640
620
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

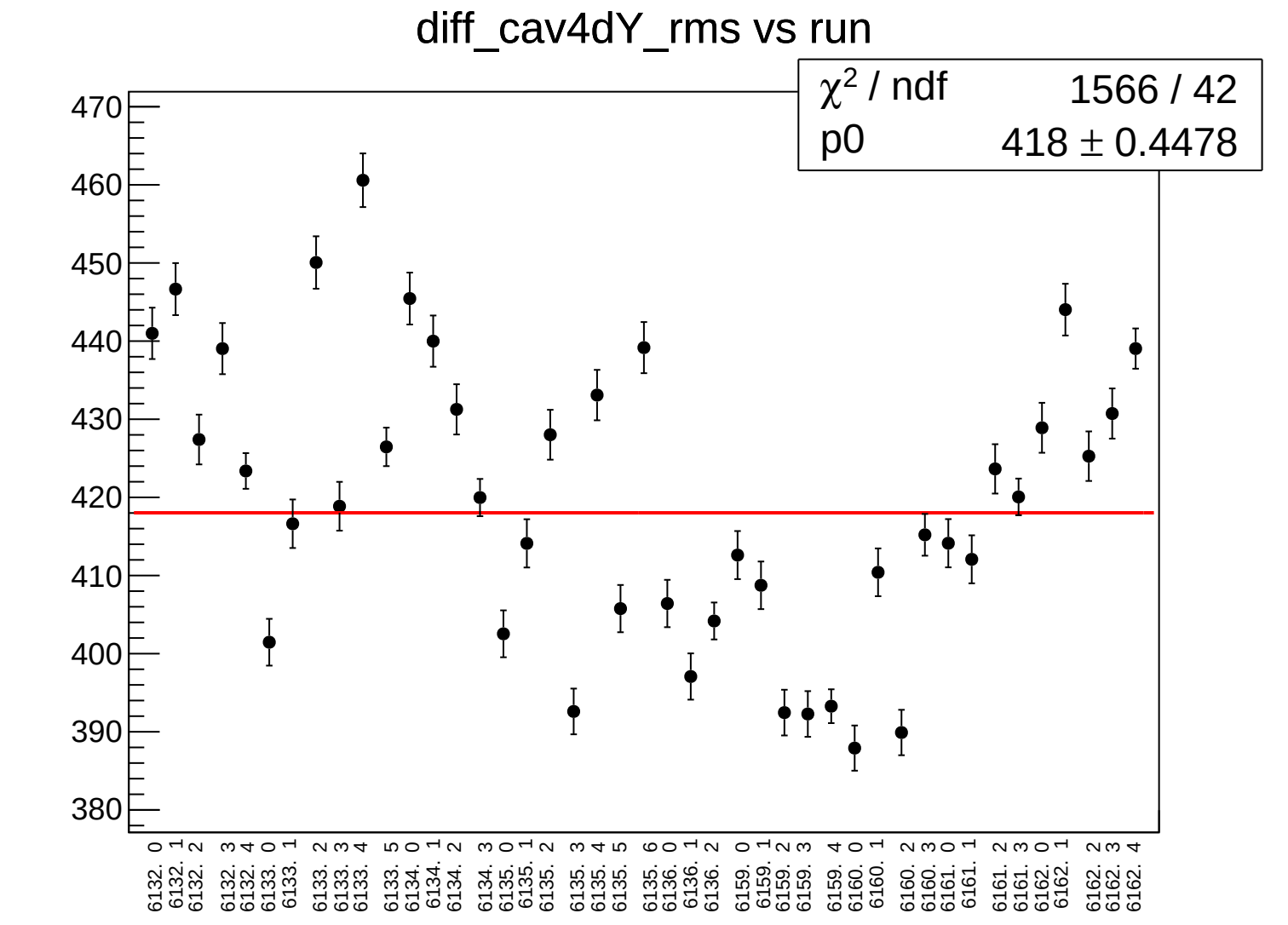

diff_cav4dX_mean vs run
χ² / ndf 37.31 / 42
p0 −5.347 ± 12.21
300
200
100
0
−100
−200
−300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 191.3
Std Dev 171.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

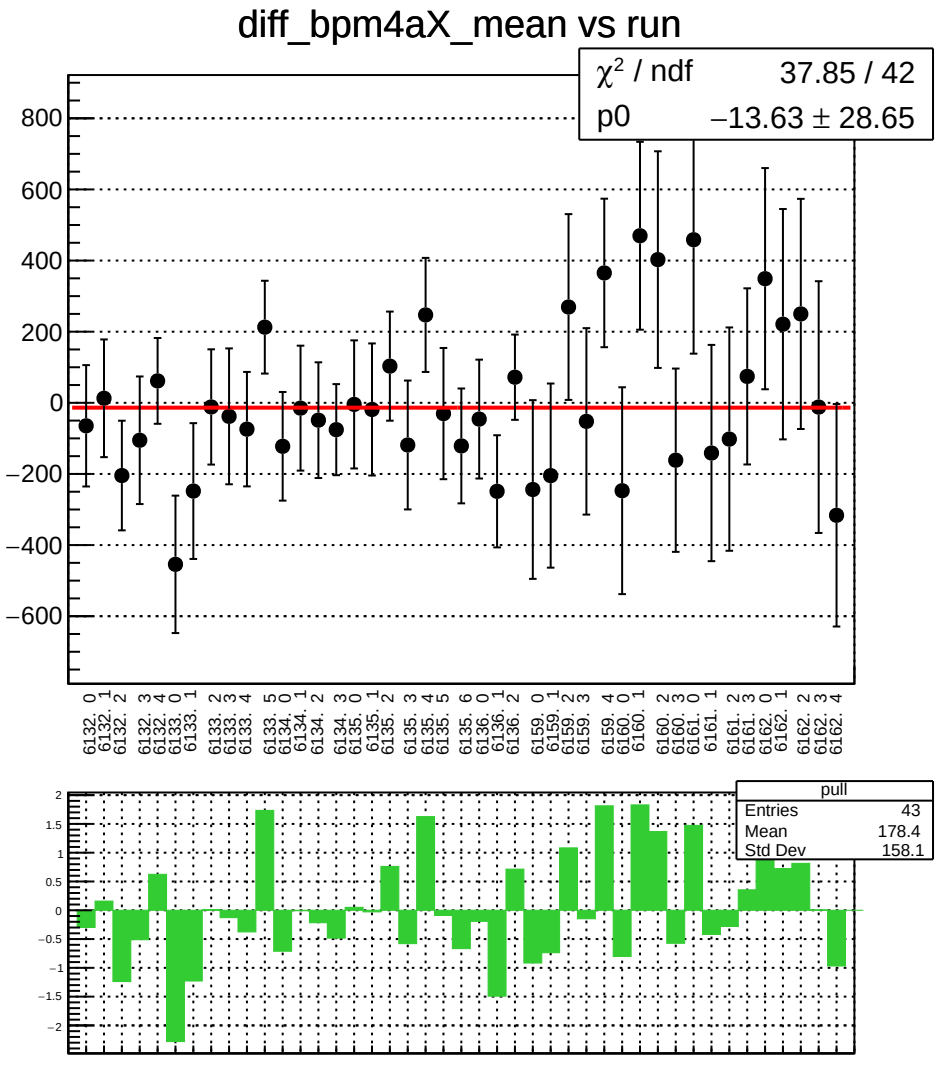

pull1D
Entries 43
Mean 0.01961
Std Dev 0.9312
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

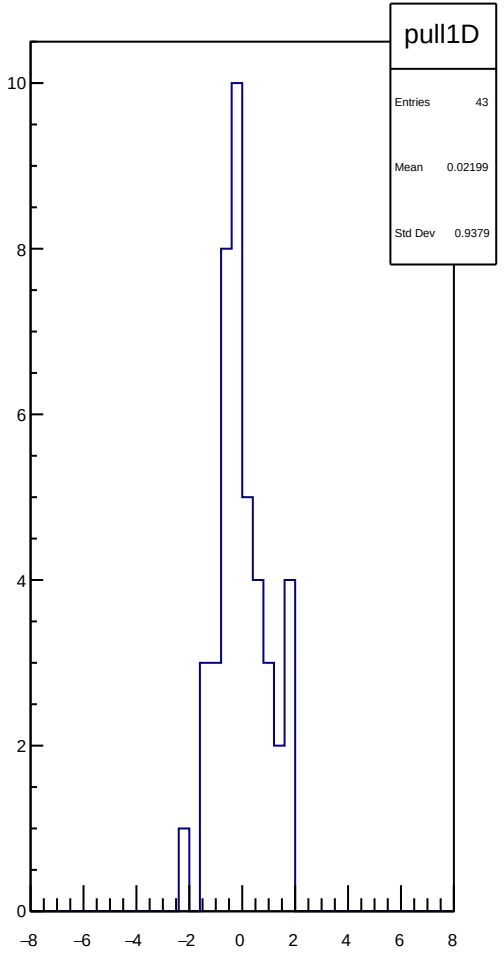

diff_cav4dX_rms vs run
χ² / ndf 6.233e+04 / 42
p0 7776 ± 8.637
16000
14000
12000
10000
8000
6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

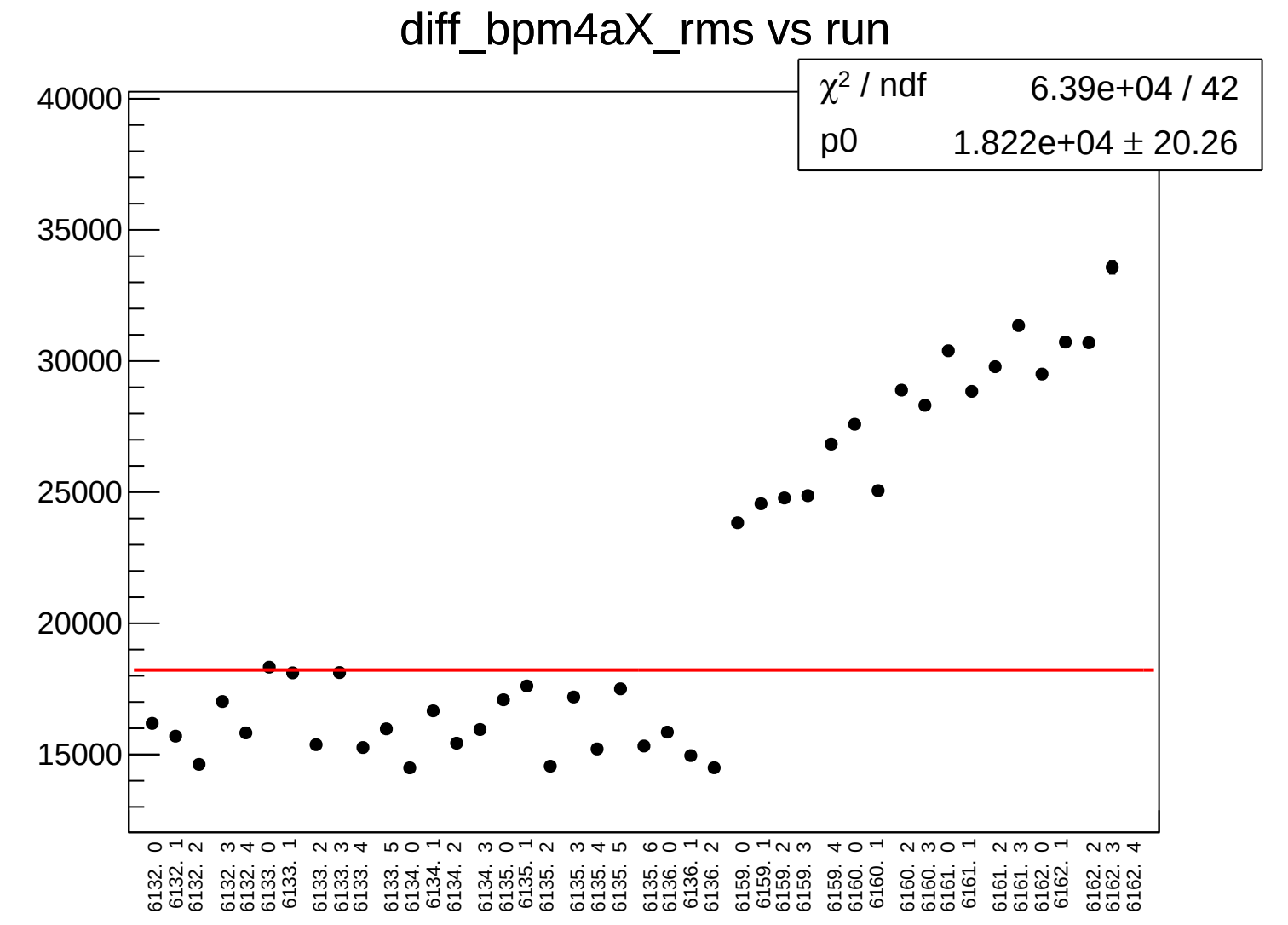

diff_cav4dY_mean vs run
χ² / ndf 40.94 / 42
p0 −0.4905 ± 0.6333
pull
Entries 43
Mean 14.52
Std Dev 26.67

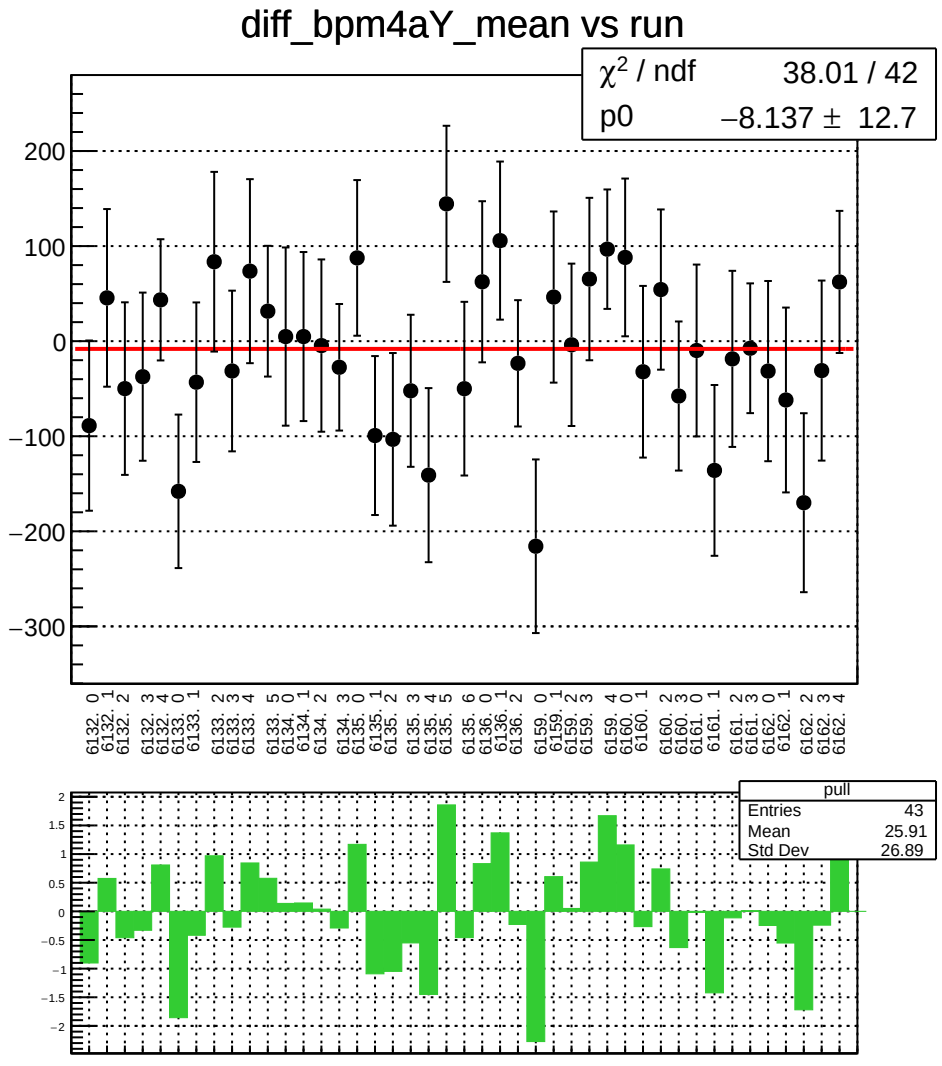

pull1D
Entries 43
Mean −0.03166
Std Dev 0.9753

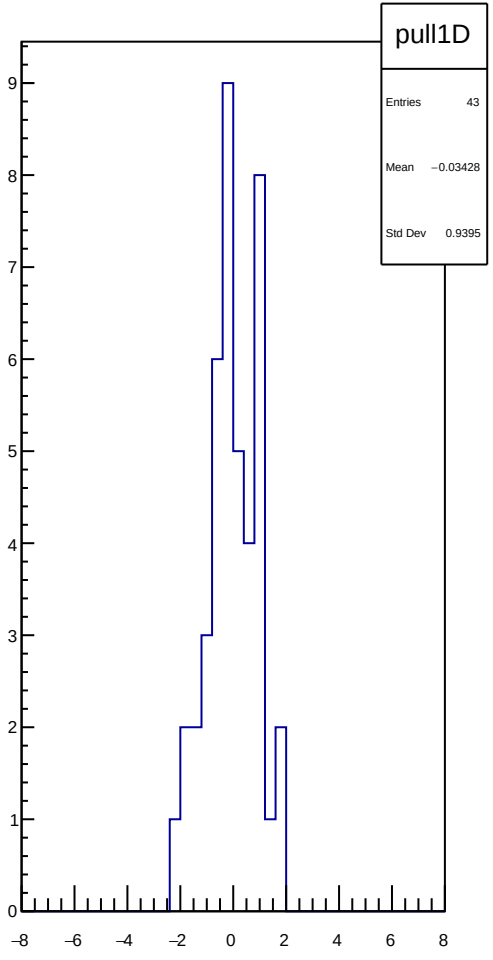

diff_cav4dY_rms vs run
χ² / ndf 1566 / 42
p0 418 ± 0.4478
470
460
450
440
430
420
410
400
390
380
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

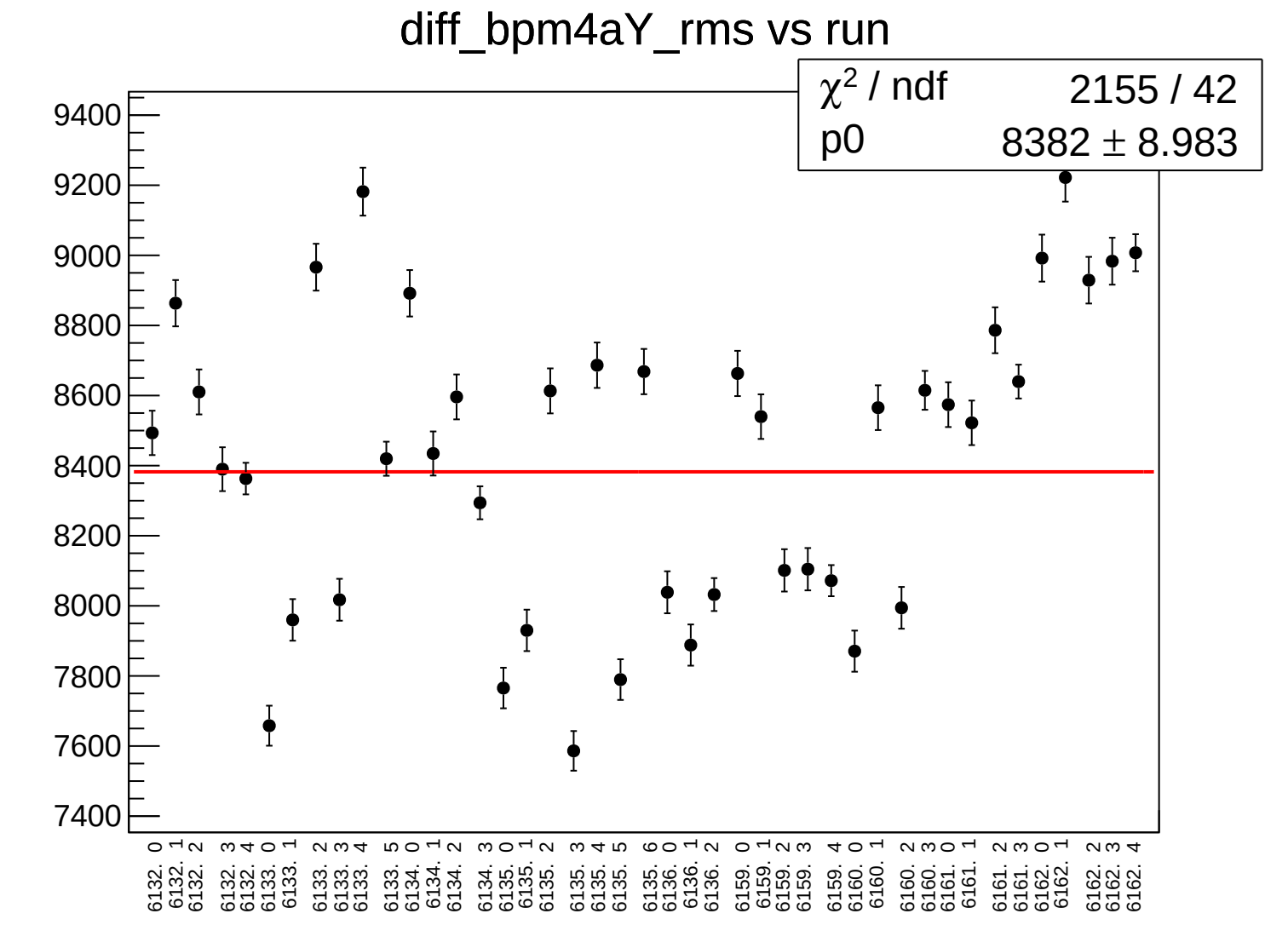

diff_bpm4aX_mean vs run
χ² / ndf 37.85 / 42
p0 −13.63 ± 28.65
800
600
400
200
0
−200
−400
−600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 178.4
Std Dev 158.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

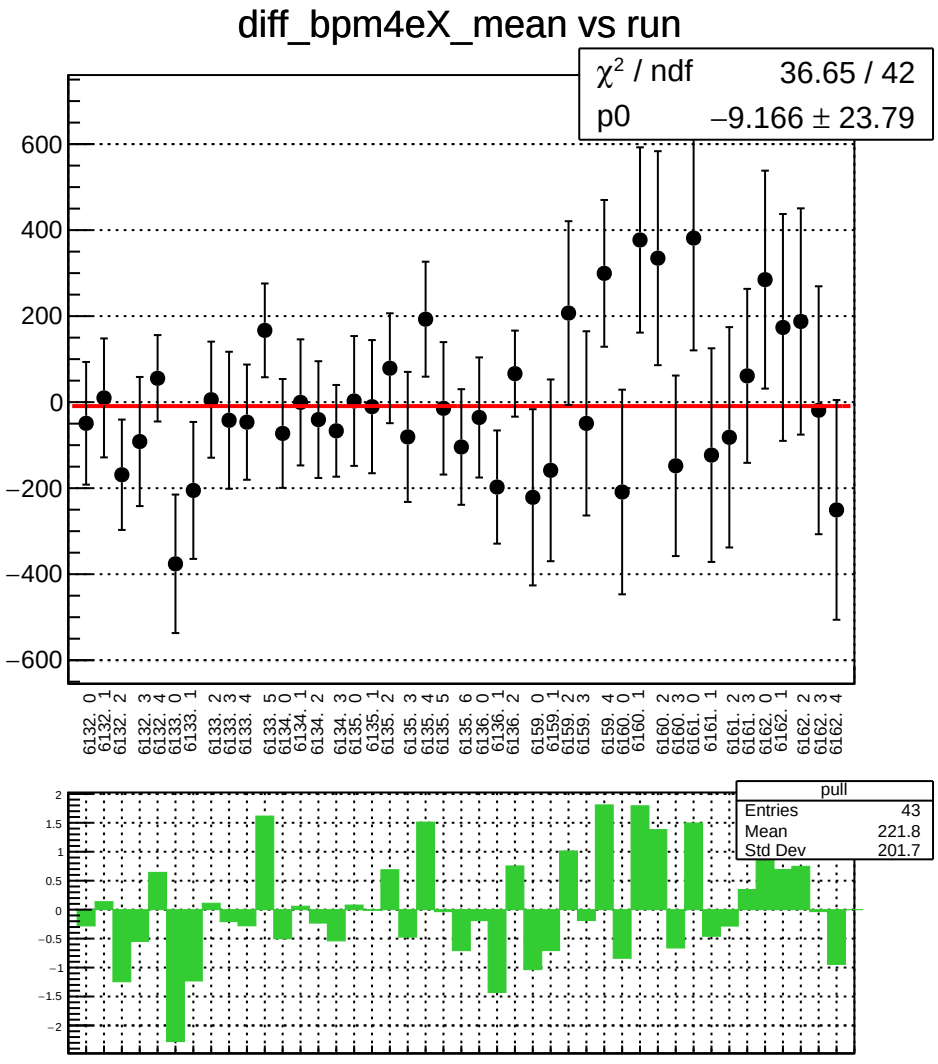

pull1D
Entries 43
Mean 0.02199
Std Dev 0.9379
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

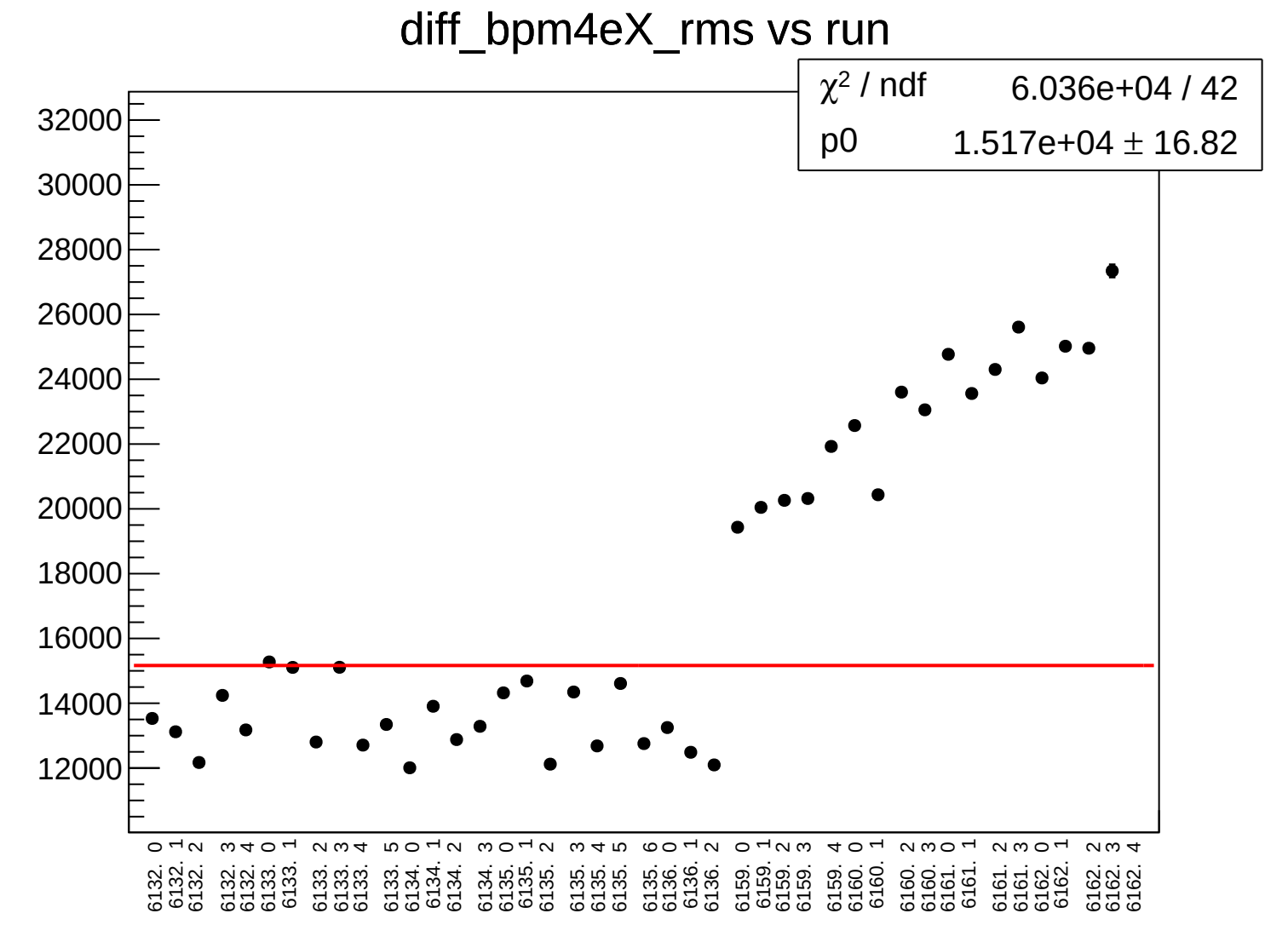

diff_bpm4aX_rms vs run
χ² / ndf 6.39e+04 / 42
p0 1.822e+04 ± 20.26
40000
35000
30000
25000
20000
15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

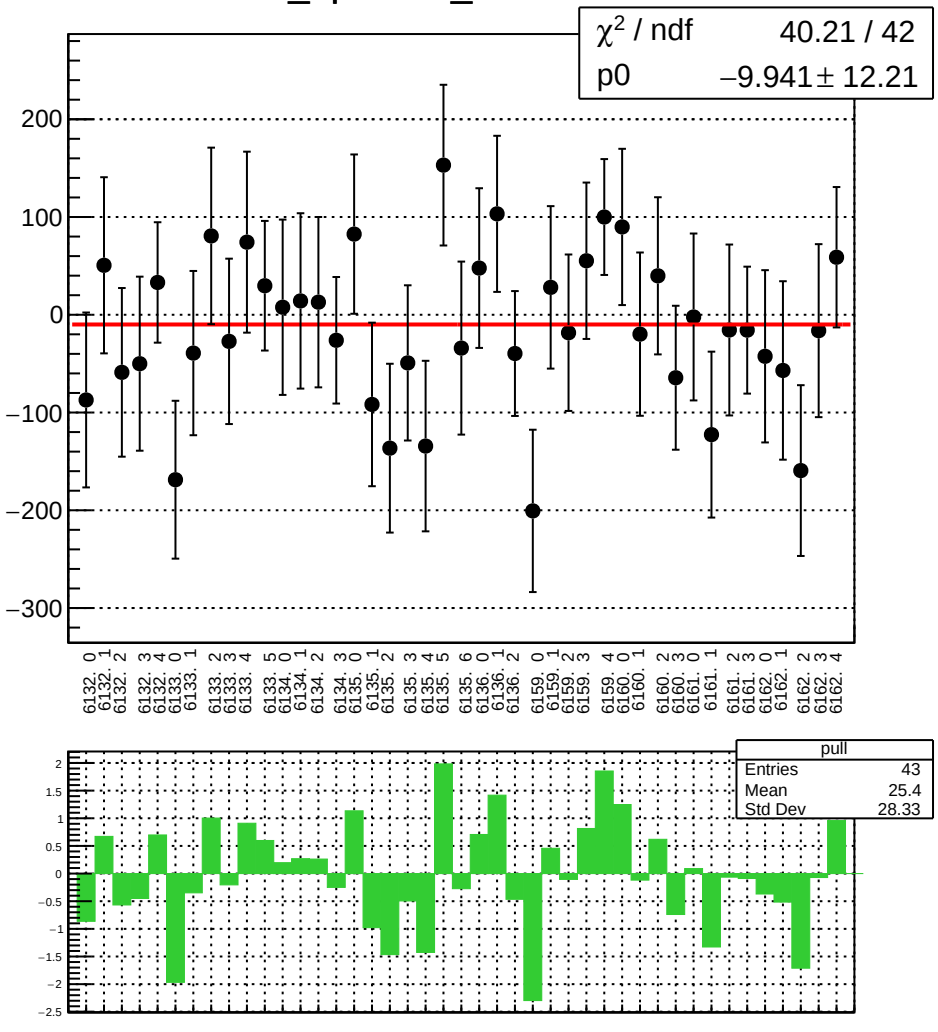

diff_bpm4aY_mean vs run
χ² / ndf 38.01 / 42
p0 −8.137 ± 12.7
200
100
0
−100
−200
−300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 25.91
Std Dev 26.89
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

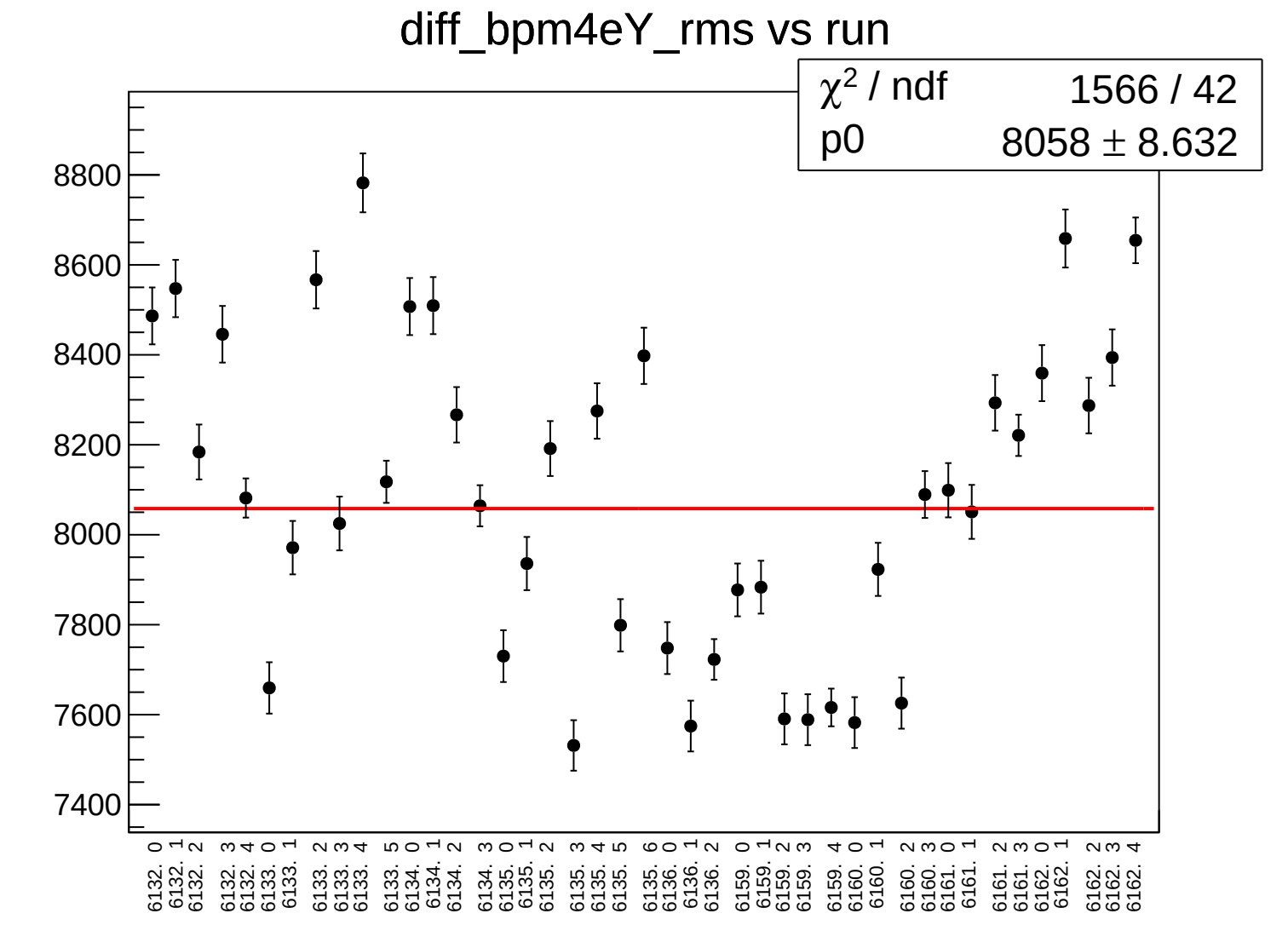

pull1D
Entries 43
Mean −0.03428
Std Dev 0.9395
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

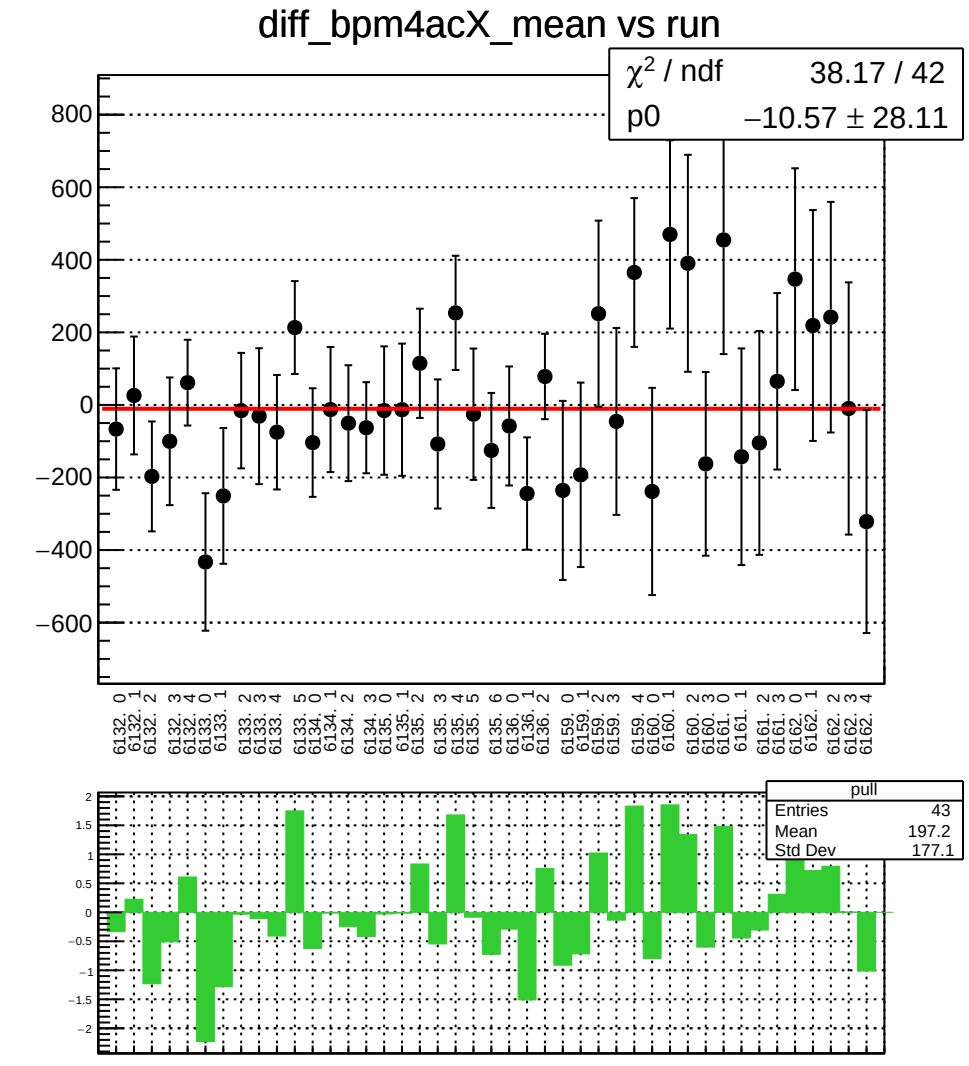

diff_bpm4aY_rms vs run
χ² / ndf 2155 / 42
p0 8382 ± 8.983
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

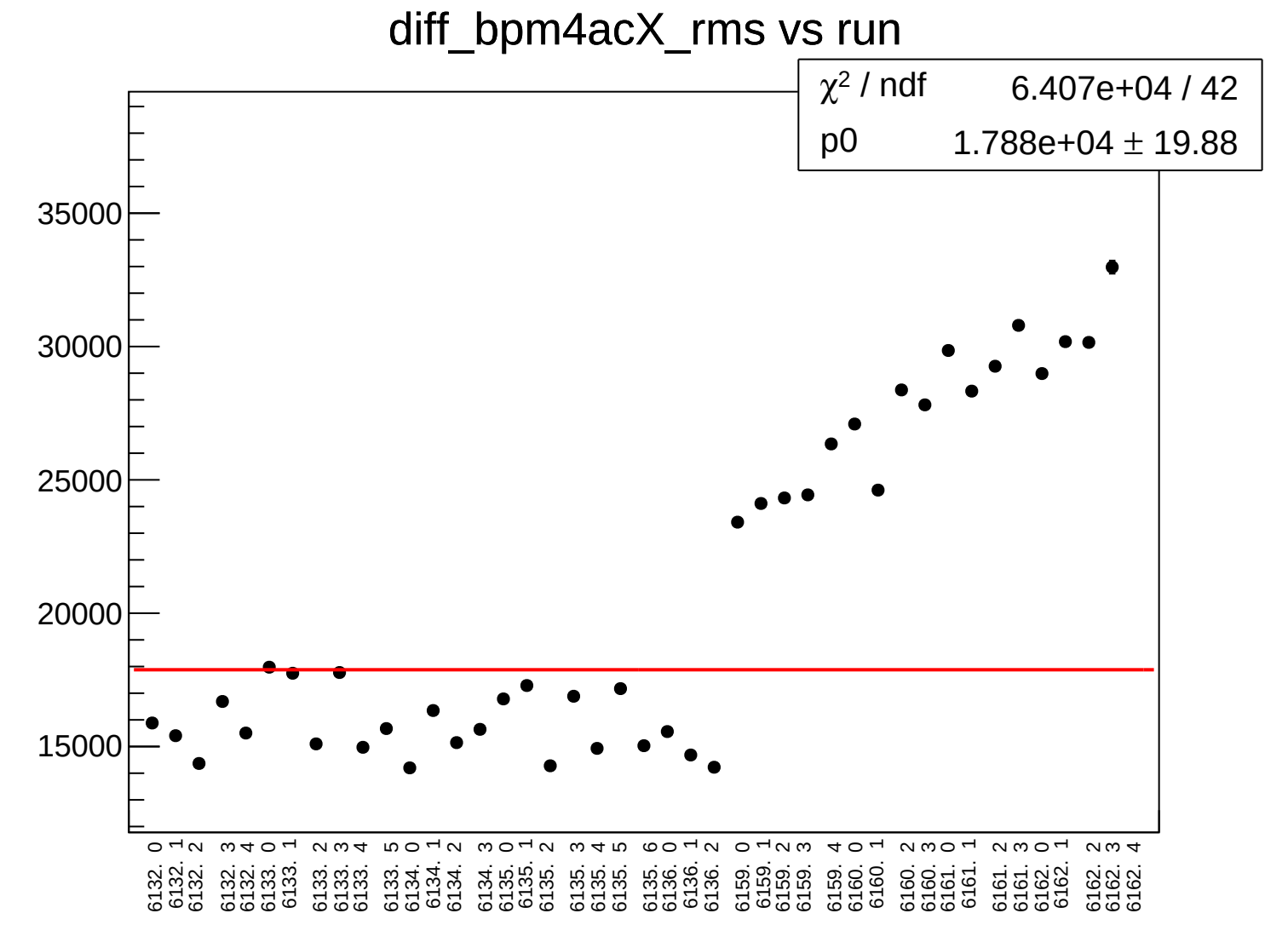

diff_bpm4eX_mean vs run
χ² / ndf 36.65 / 42
p0 −9.166 ± 23.79
600
400
200
0
−200
−400
−600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 221.8
Std Dev 201.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01642
Std Dev 0.9231
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

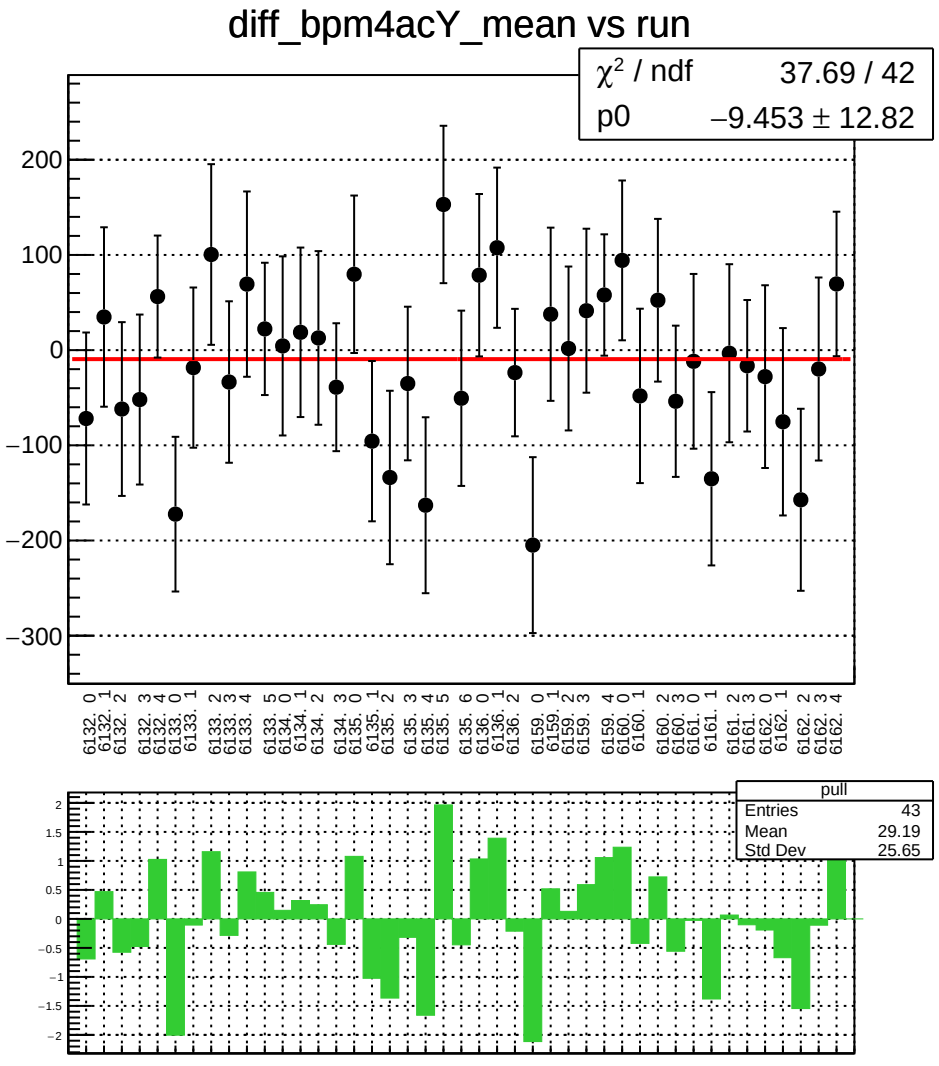

diff_bpm4eX_rms vs run
χ² / ndf 6.036e+04 / 42
p0 1.517e+04 ± 16.82
32000
30000
28000
26000
24000
22000
20000
18000
16000
14000
12000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

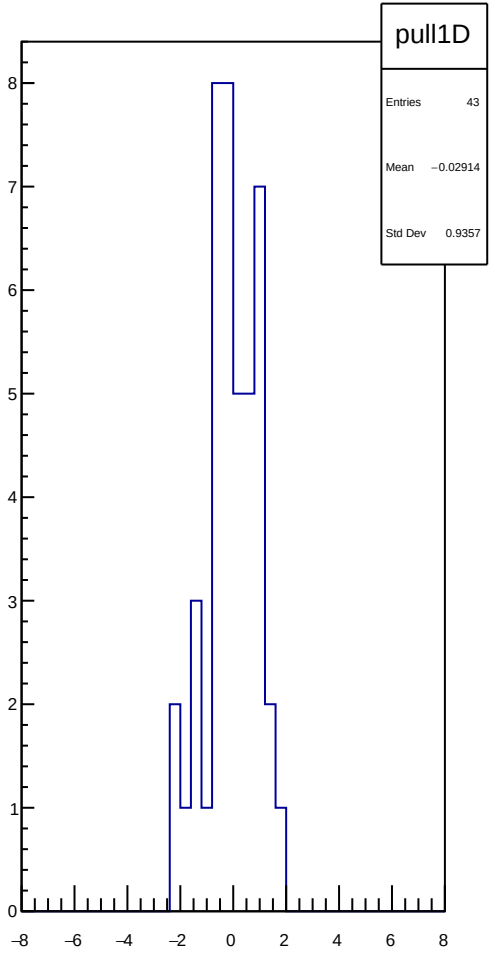

diff_bpm4eY_mean vs run
χ² / ndf 40.21 / 42
p0 −9.941 ± 12.21
200
100
0
−100
−200
−300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 25.4
Std Dev 28.33
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.02949
Std Dev 0.9666
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

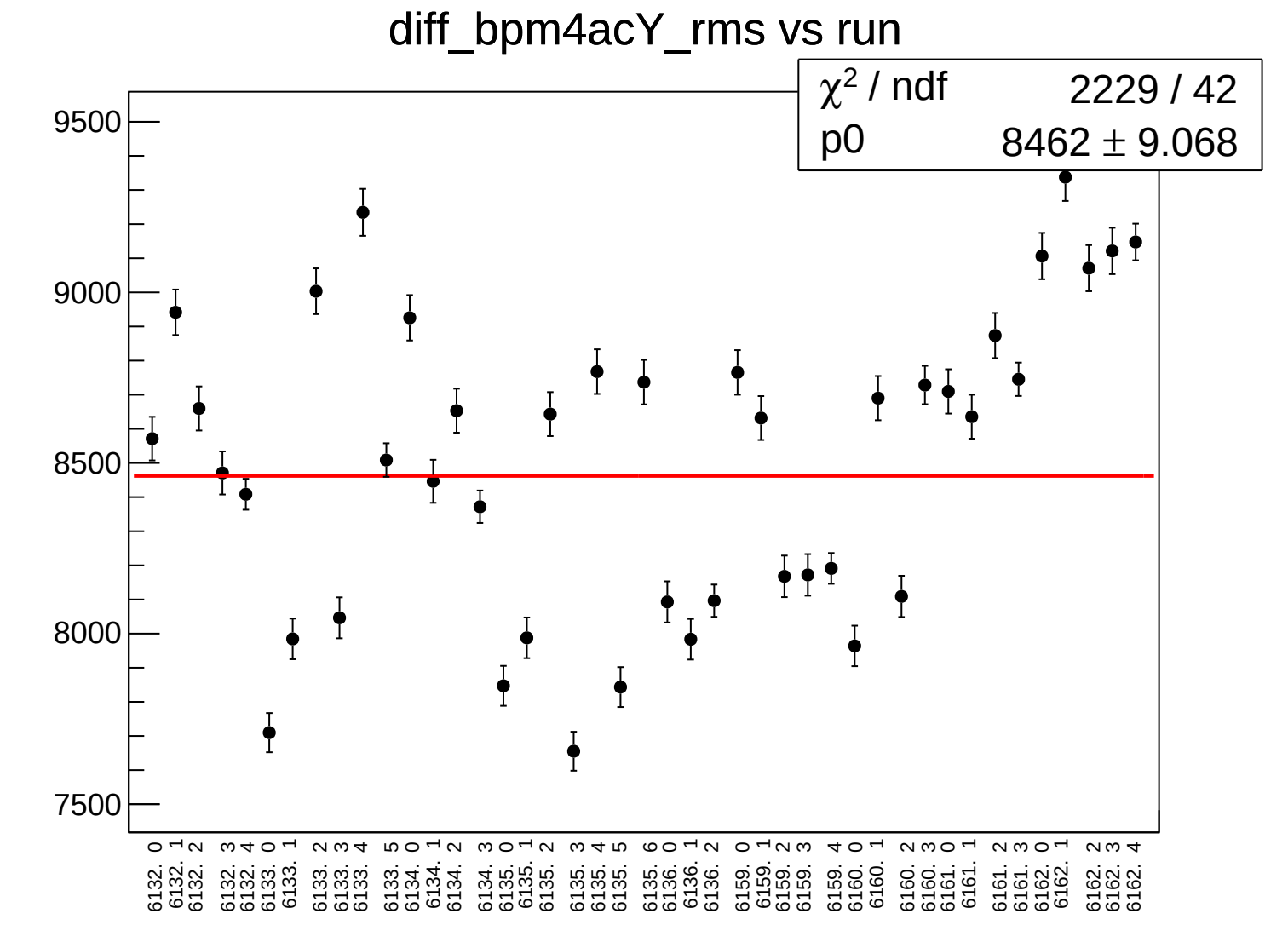

diff_bpm4eY_rms vs run
χ² / ndf 1566 / 42
p0 8058 ± 8.632
8800
8600
8400
8200
8000
7800
7600
7400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

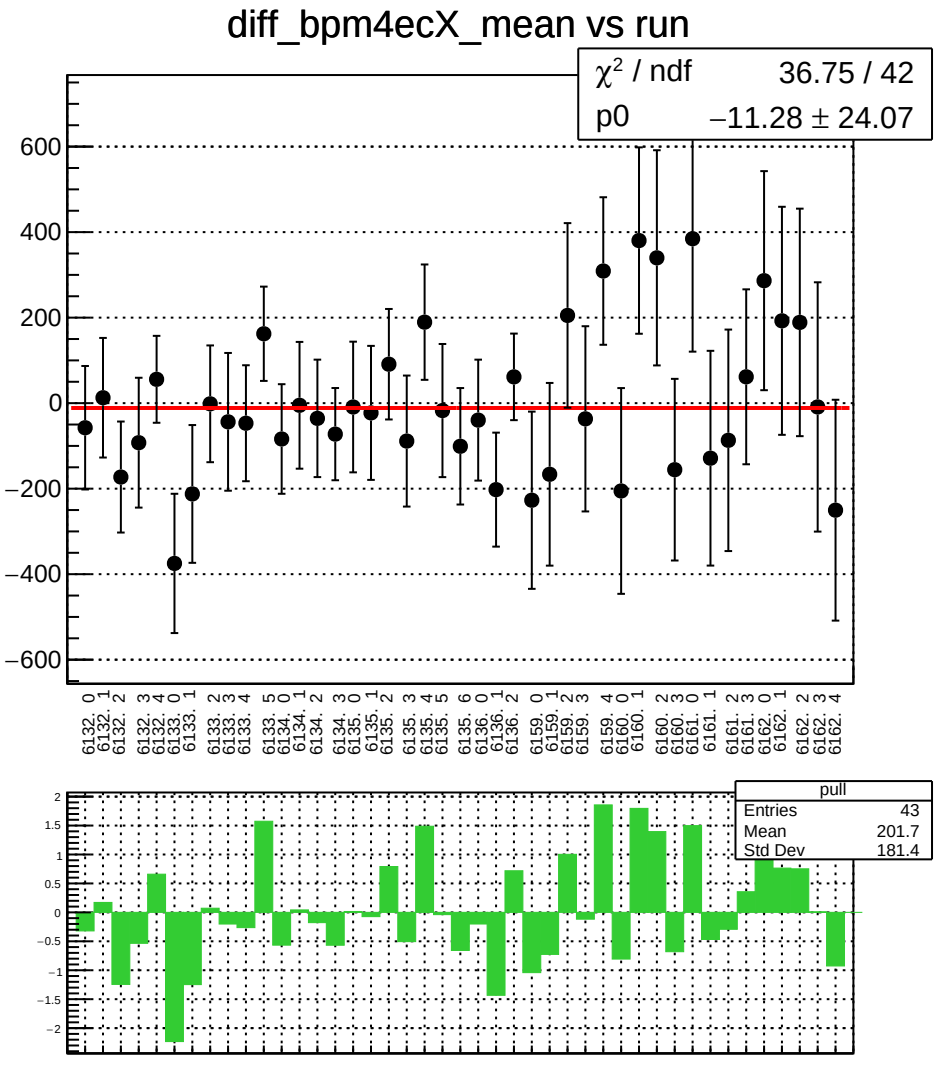

diff_bpm4acX_mean vs run
χ² / ndf 38.17 / 42
p0 −10.57 ± 28.11
800
600
400
200
0
−200
−400
−600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 197.2
Std Dev 177.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.0191
Std Dev 0.9419
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

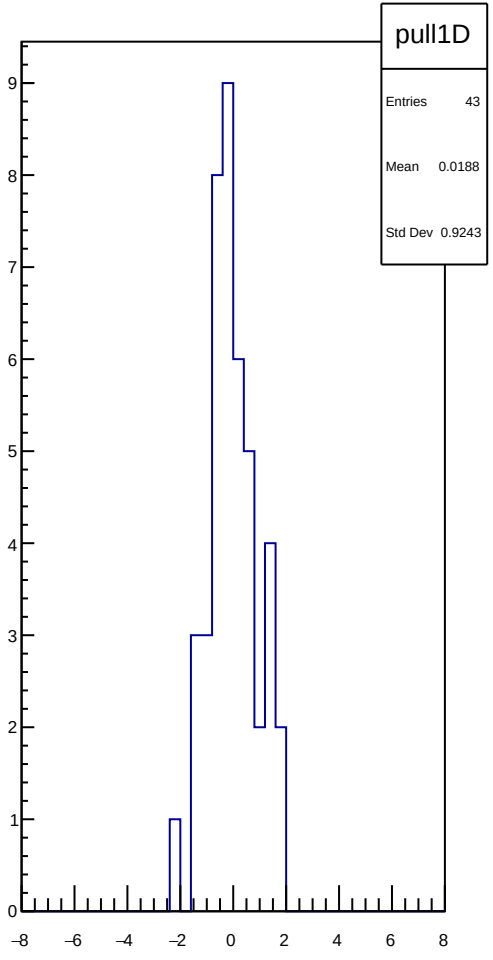

diff_bpm4acX_rms vs run
χ² / ndf 6.407e+04 / 42
p0 1.788e+04 ± 19.88
35000
30000
25000
20000
15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

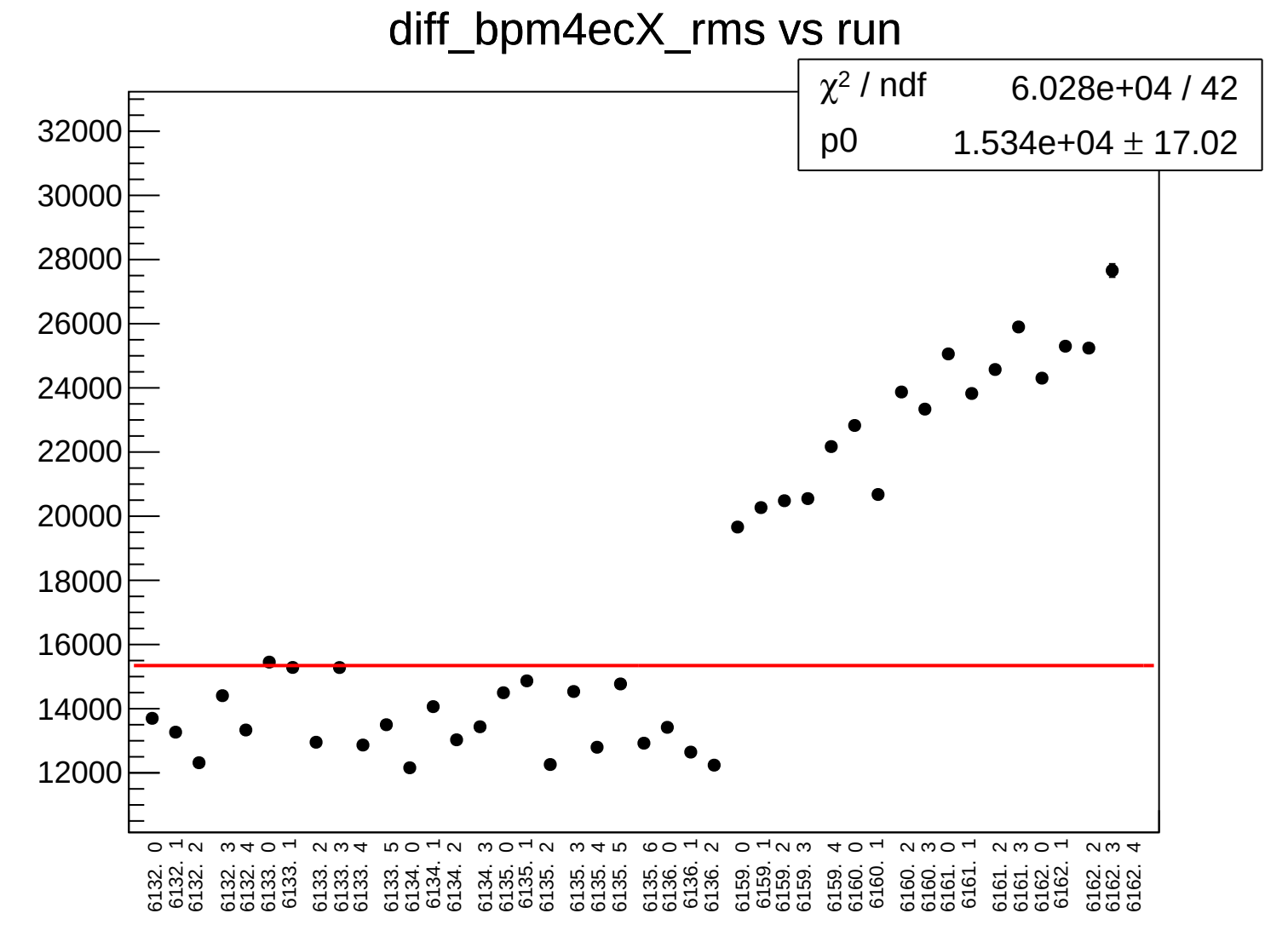

diff_bpm4acY_mean vs run
χ² / ndf 37.69 / 42
p0 −9.453 ± 12.82
200
100
0
−100
−200
−300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 29.19
Std Dev 25.65
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

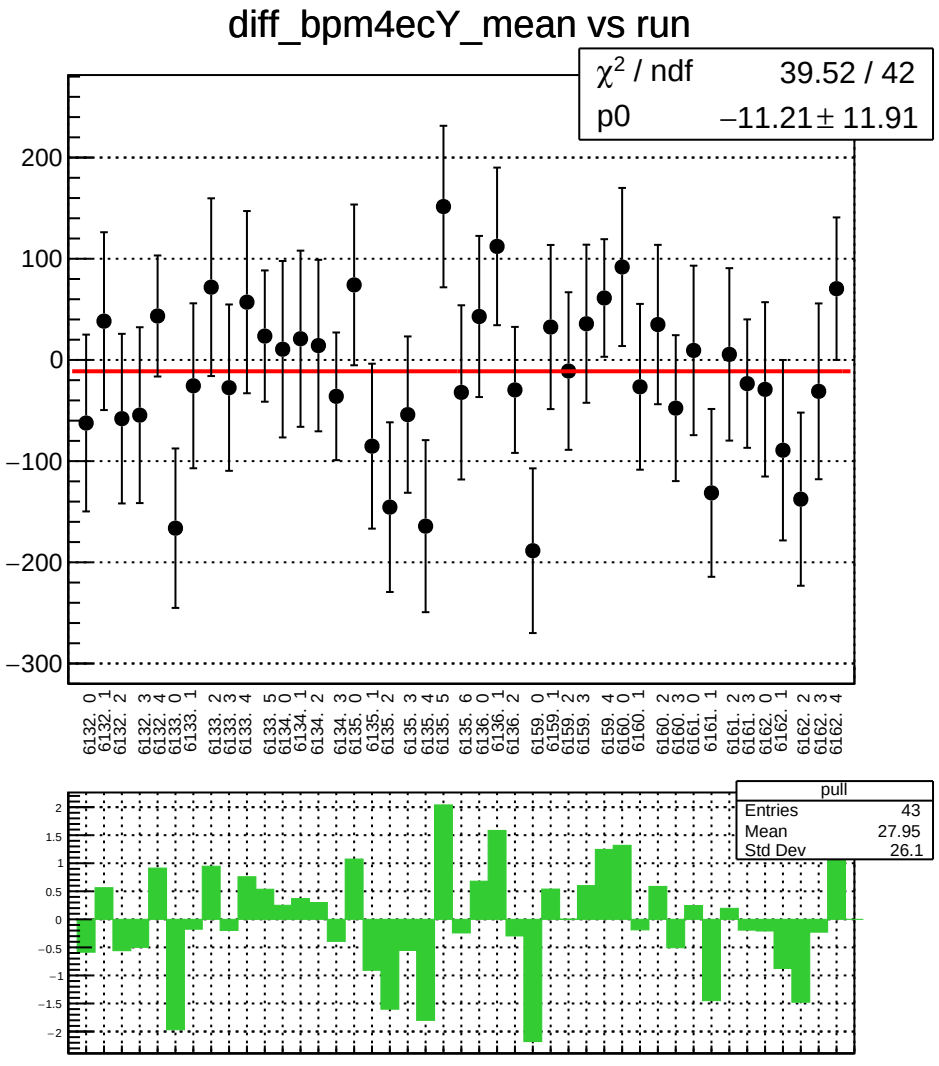

pull1D
Entries 43
Mean −0.02914
Std Dev 0.9357
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

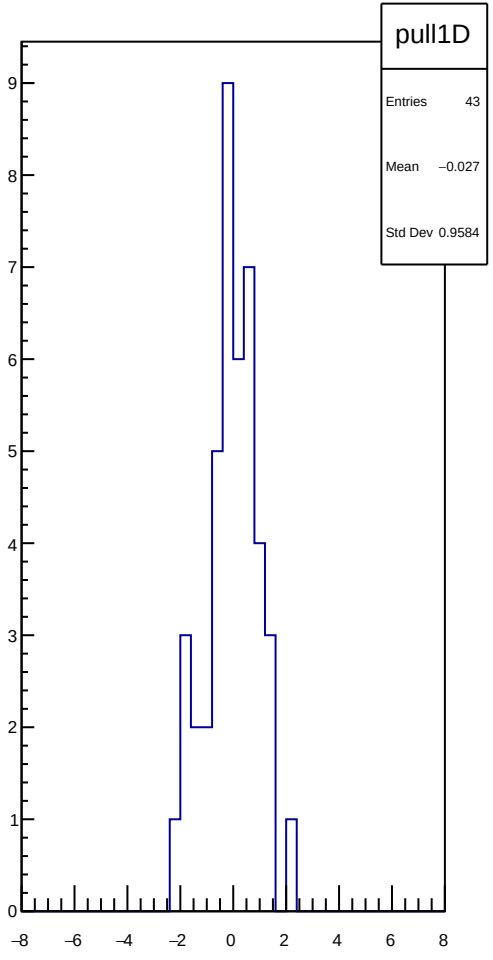

diff_bpm4acY_rms vs run
χ² / ndf 2229 / 42
p0 8462 ± 9.068
9500
9000
8500
8000
7500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

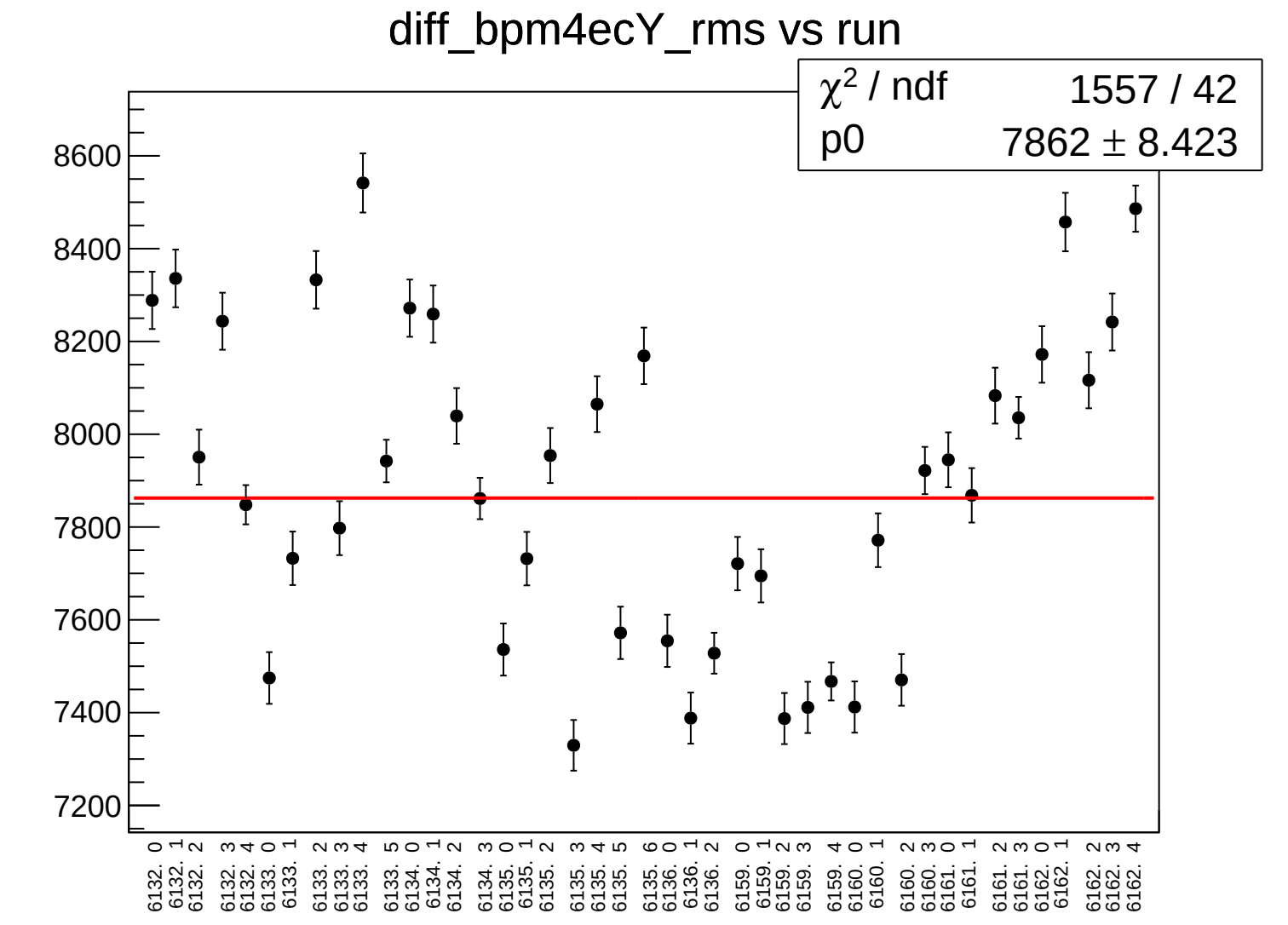

diff_bpm4ecX_mean vs run
χ² / ndf 36.75 / 42
p0 −11.28 ± 24.07
600
400
200
0
−200
−400
−600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 201.7
Std Dev 181.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

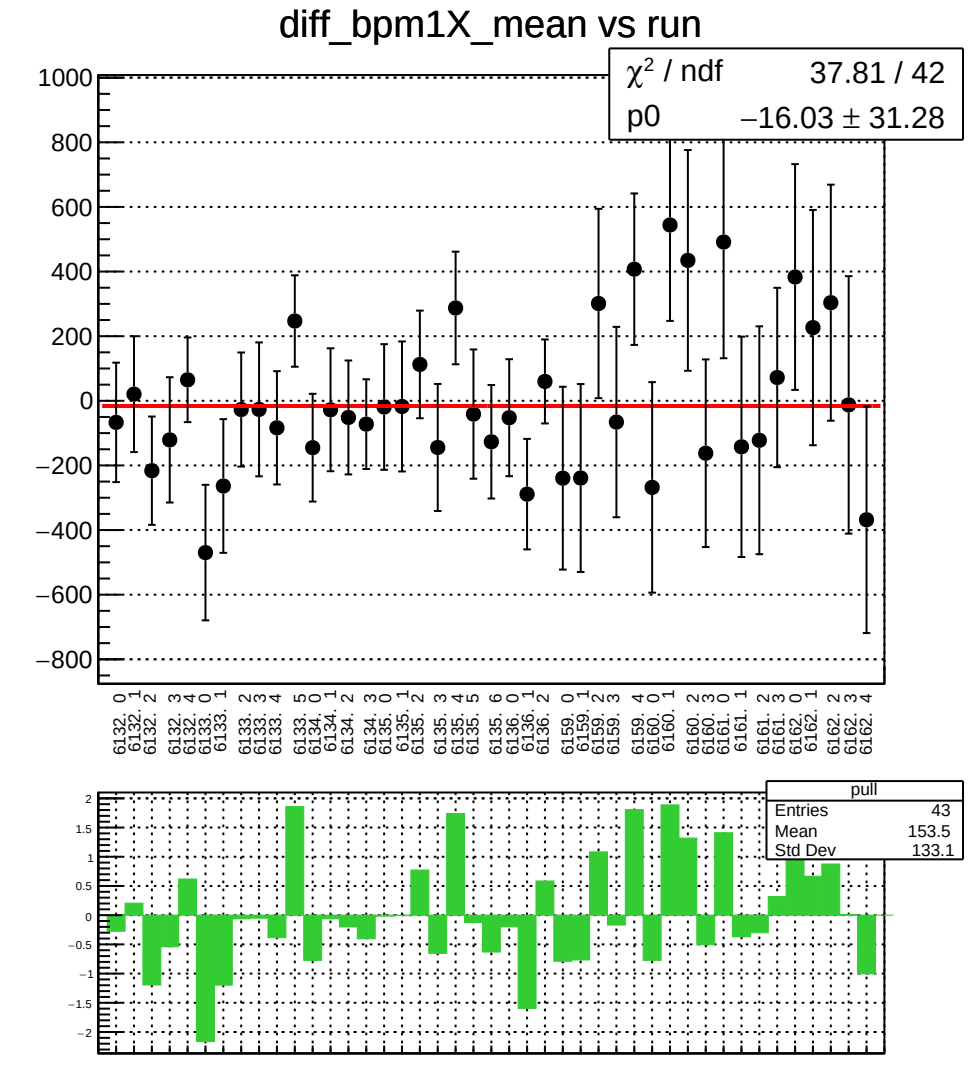

pull1D
Entries 43
Mean 0.0188
Std Dev 0.9243
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

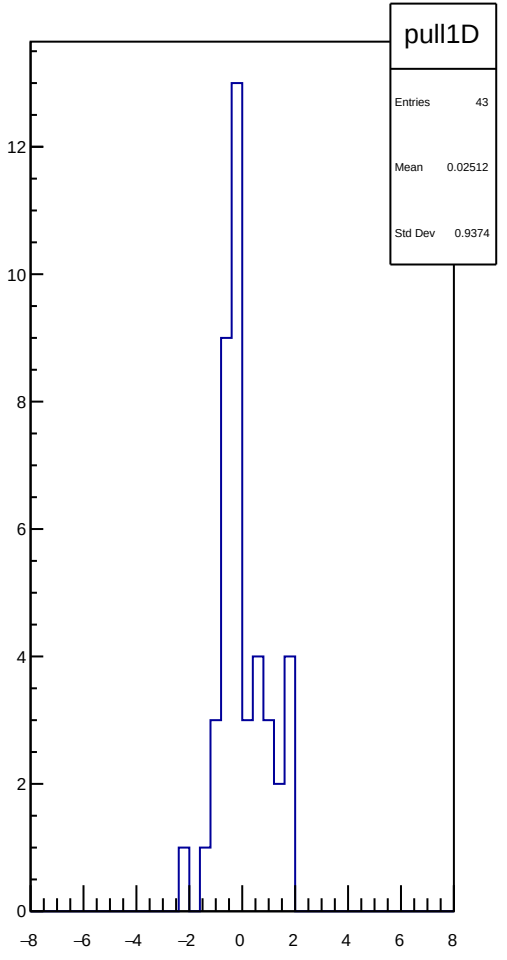

diff_bpm4ecX_rms vs run
χ² / ndf 6.028e+04 / 42
p0 1.534e+04 ± 17.02
32000
30000
28000
26000
24000
22000
20000
18000
16000
14000
12000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

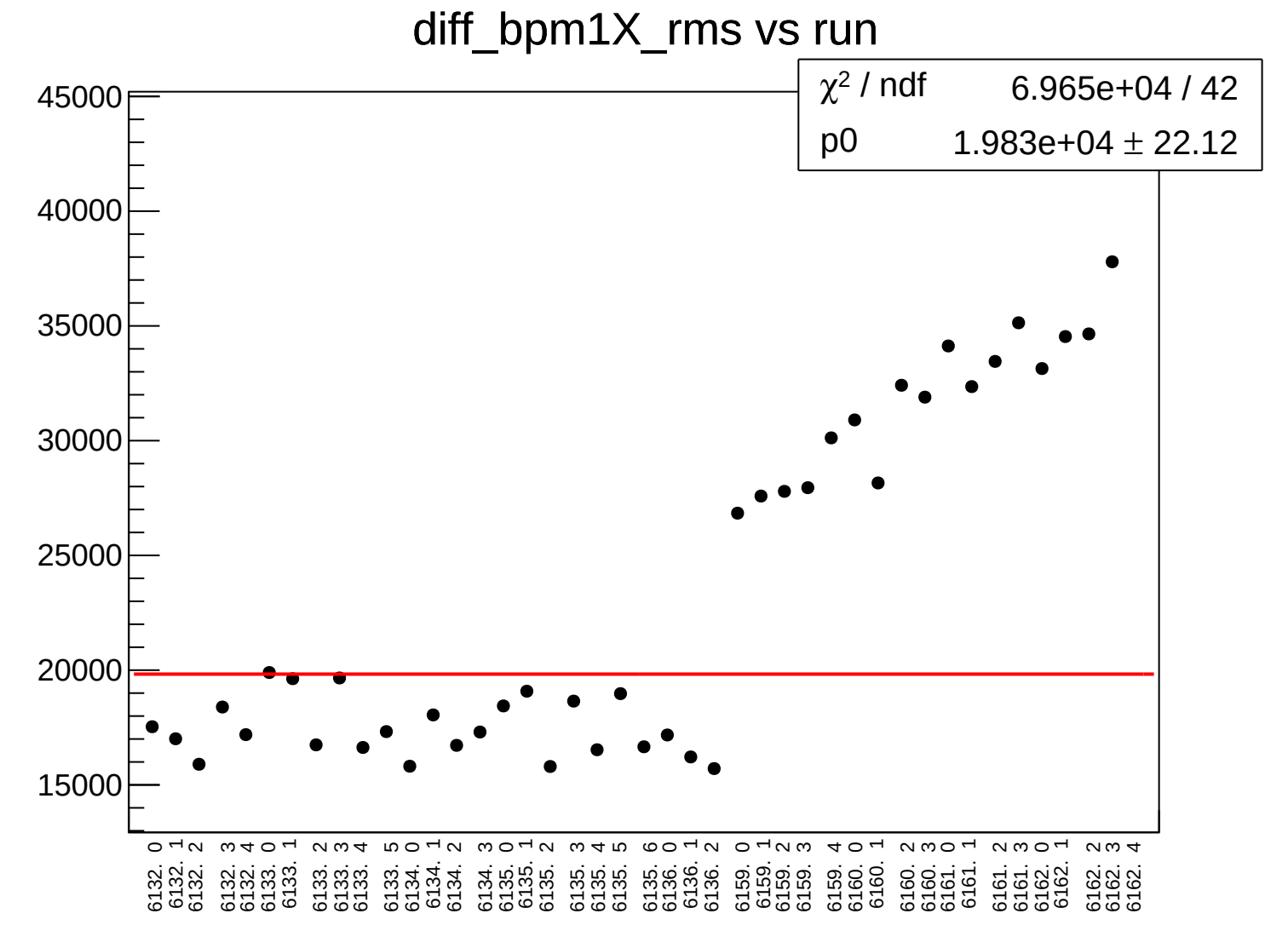

diff_bpm4ecY_mean vs run
χ² / ndf 39.52 / 42
p0 −11.21 ± 11.91
200
100
0
−100
−200
−300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 27.95
Std Dev 26.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

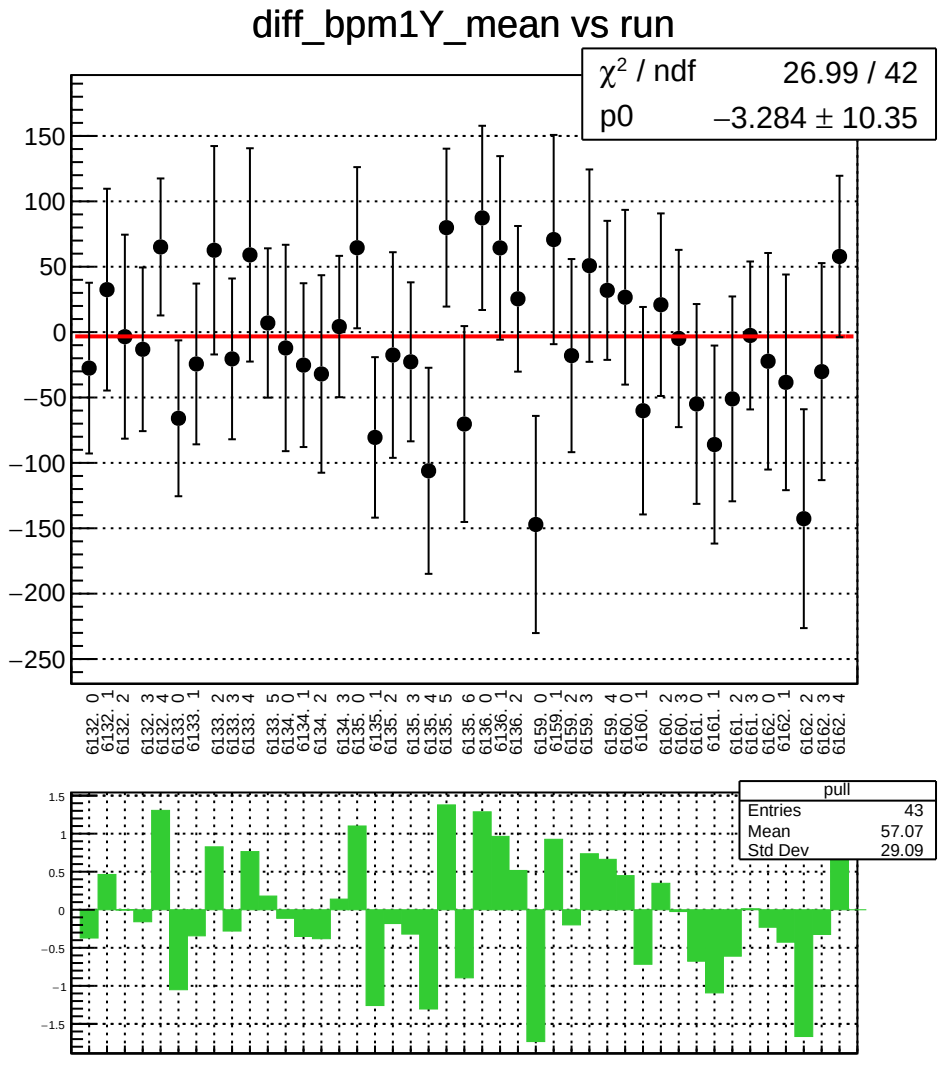

pull1D
Entries 43
Mean −0.027
Std Dev 0.9584
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

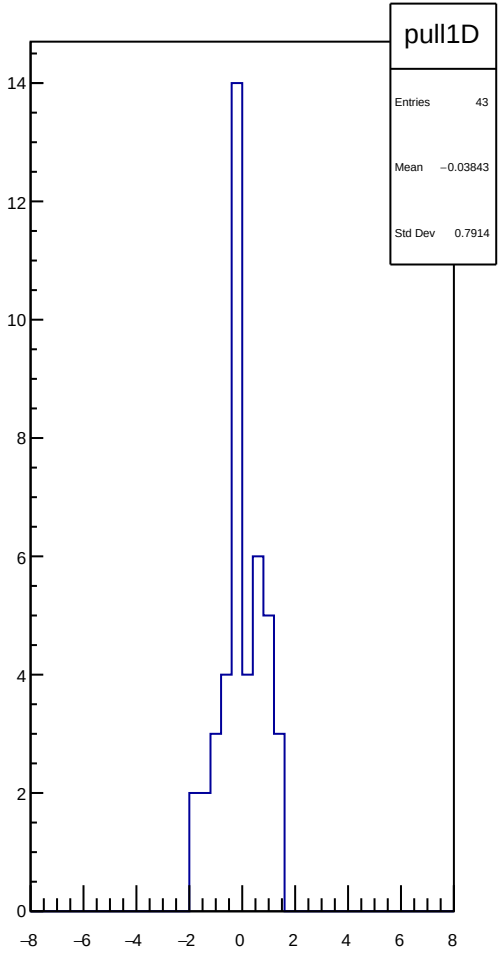

diff_bpm4ecY_rms vs run
χ² / ndf 1557 / 42
p0 7862 ± 8.423
8600
8400
8200
8000
7800
7600
7400
7200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

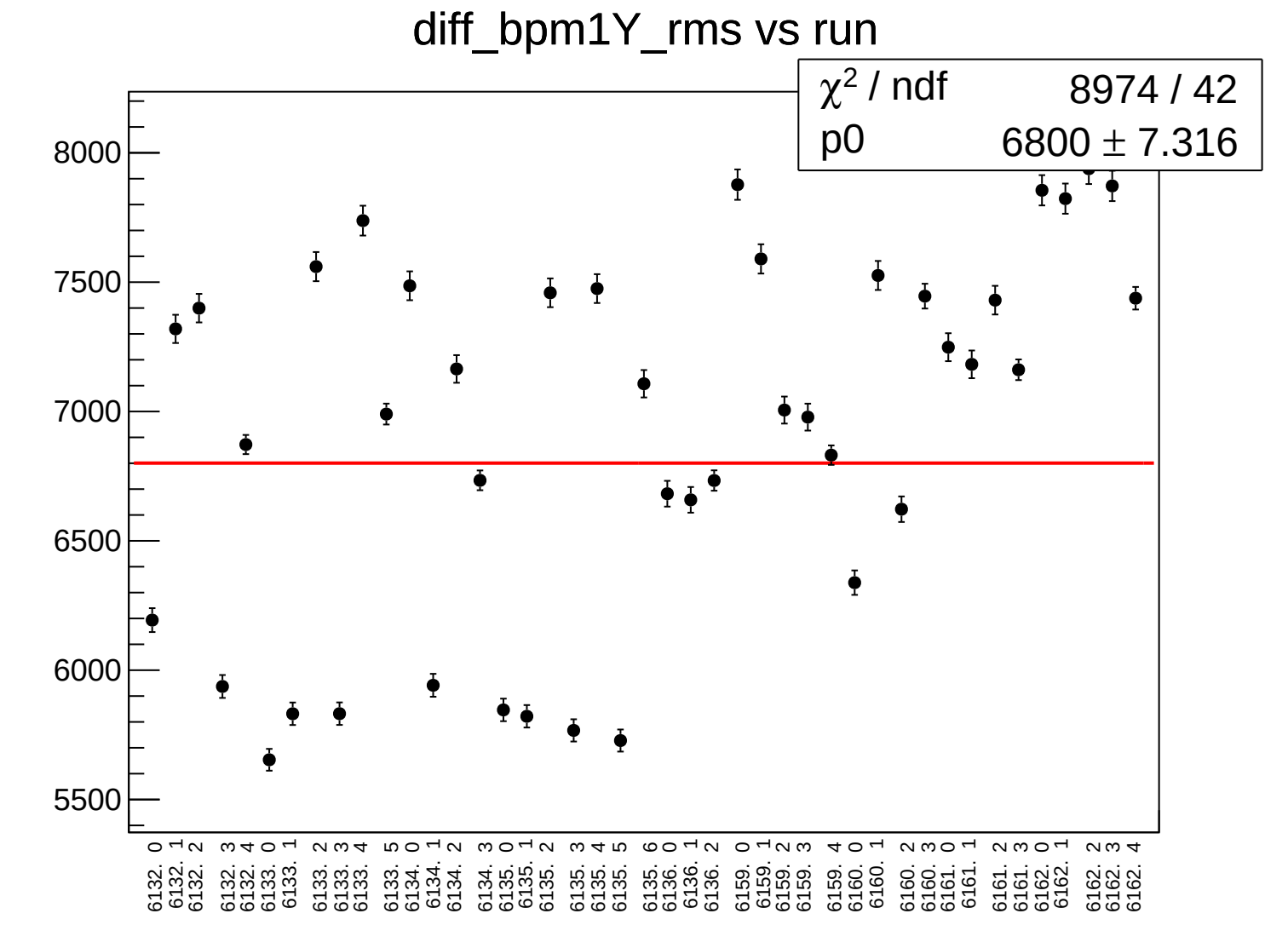

diff_bpm1X_mean vs run
χ² / ndf 37.81 / 42
p0 −16.03 ± 31.28
pull
Entries 43
Mean 153.5
Std Dev 133.1

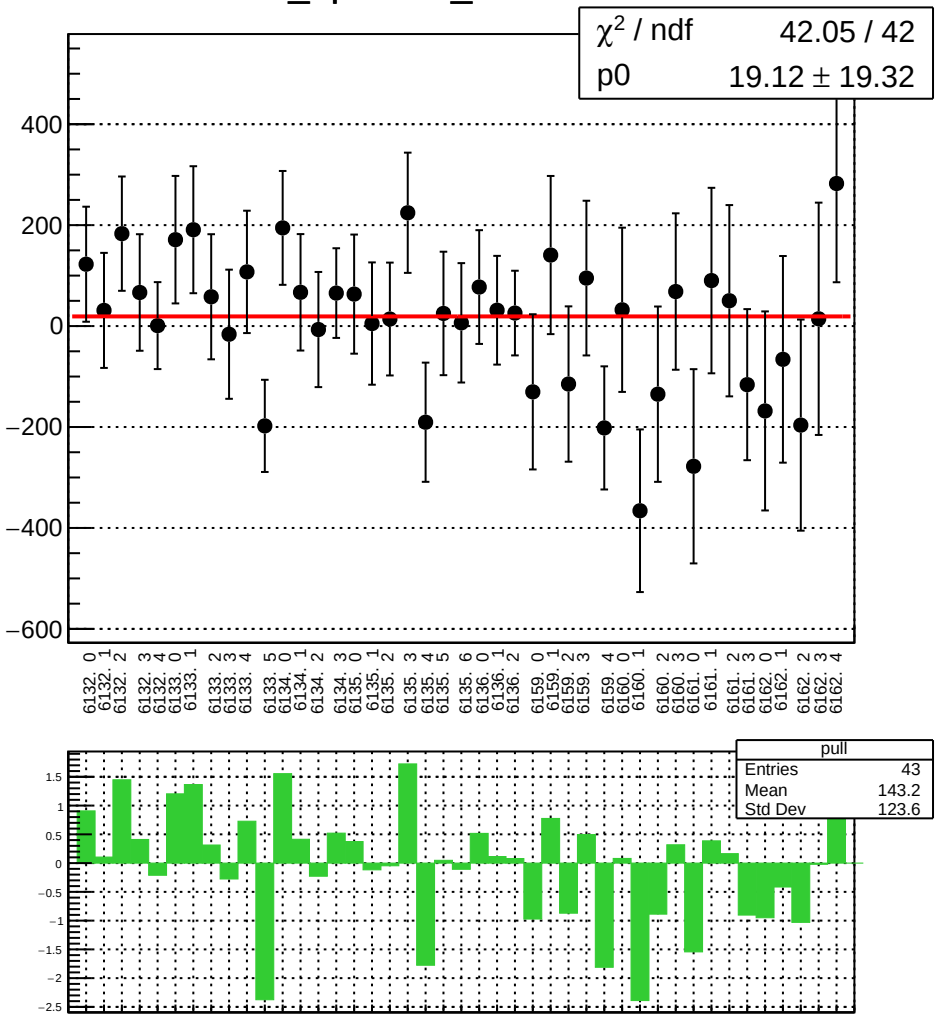

pull1D
Entries 43
Mean 0.02512
Std Dev 0.9374

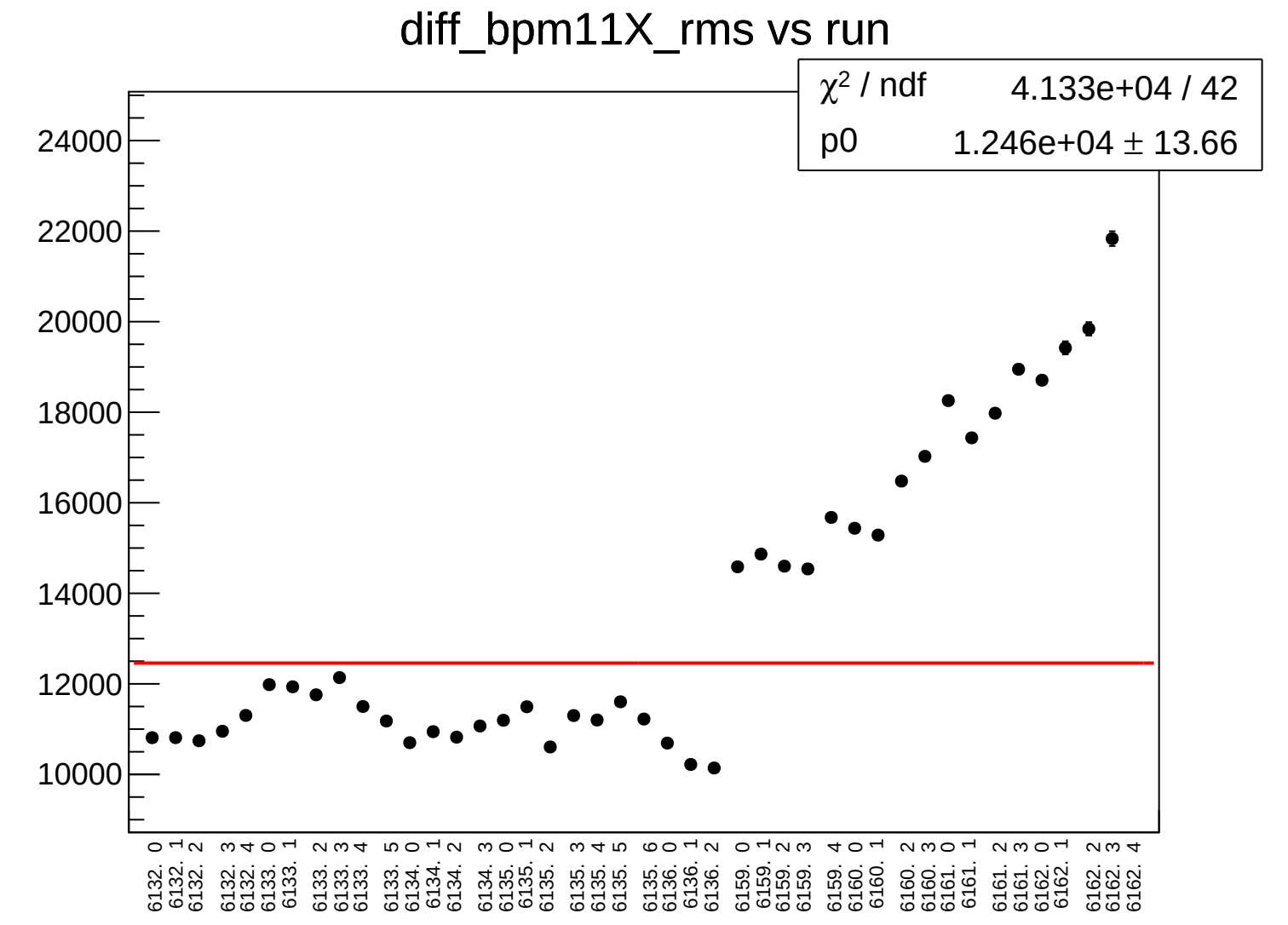

diff_bpm1X_rms vs run
χ² / ndf 6.965e+04 / 42
p0 1.983e+04 ± 22.12
45000
40000
35000
30000
25000
20000
15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

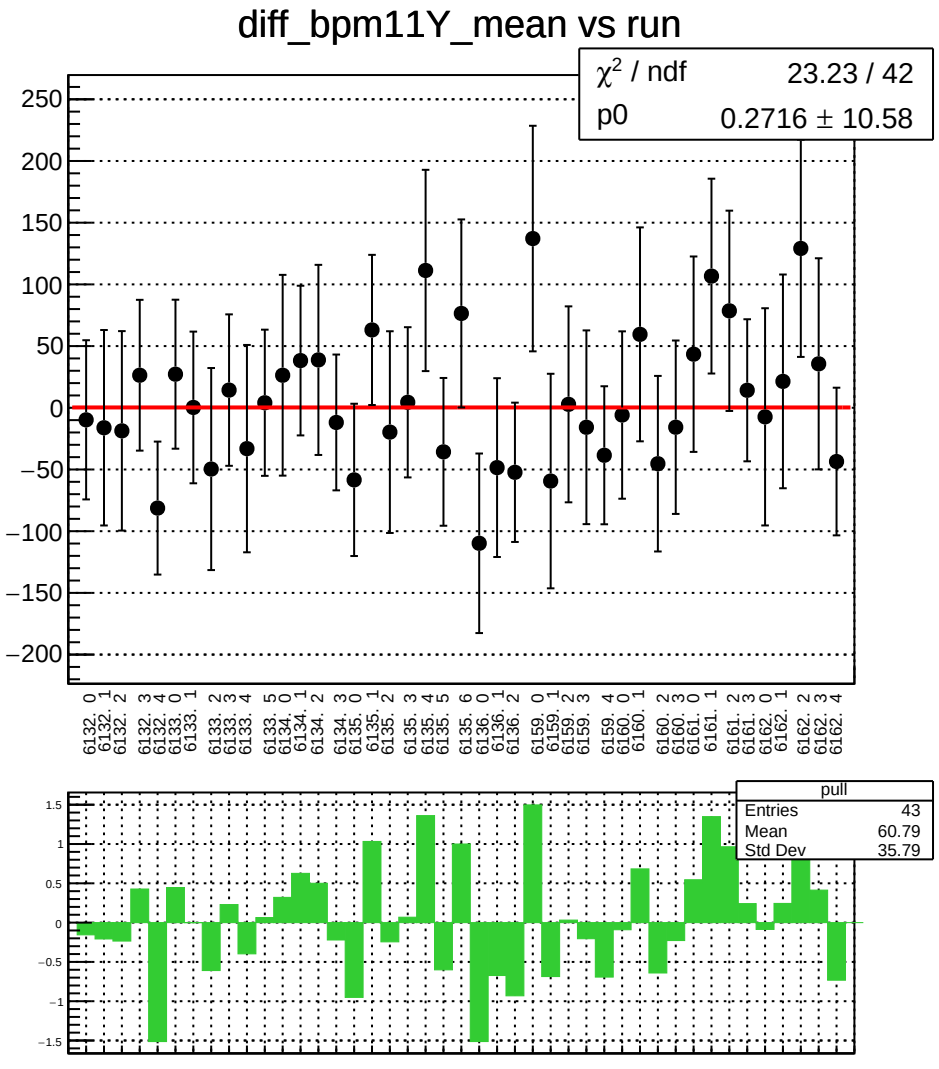

diff_bpm1Y_mean vs run
χ² / ndf 26.99 / 42
p0 −3.284 ± 10.35
150
100
50
0
−50
−100
−150
−200
−250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 57.07
Std Dev 29.09
1.5
1
0.5
0
−0.5
−1
−1.5

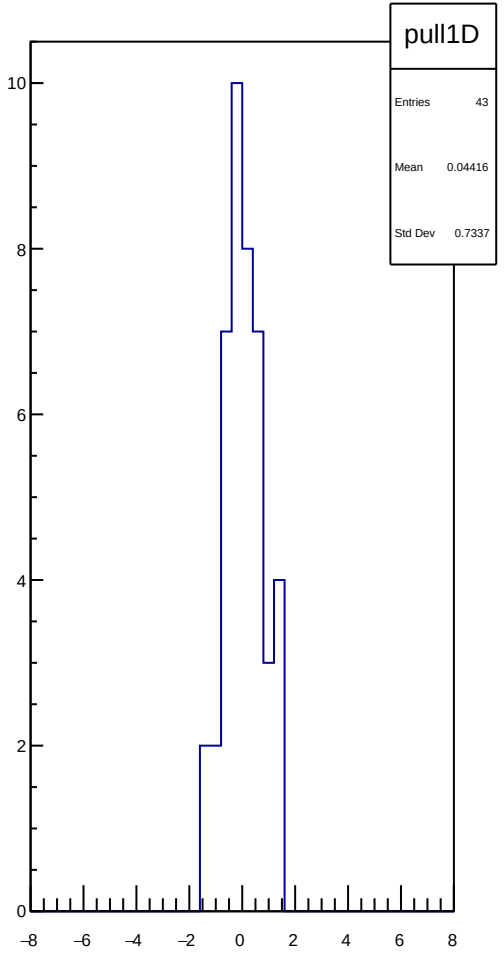

pull1D
Entries 43
Mean −0.03843
Std Dev 0.7914
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

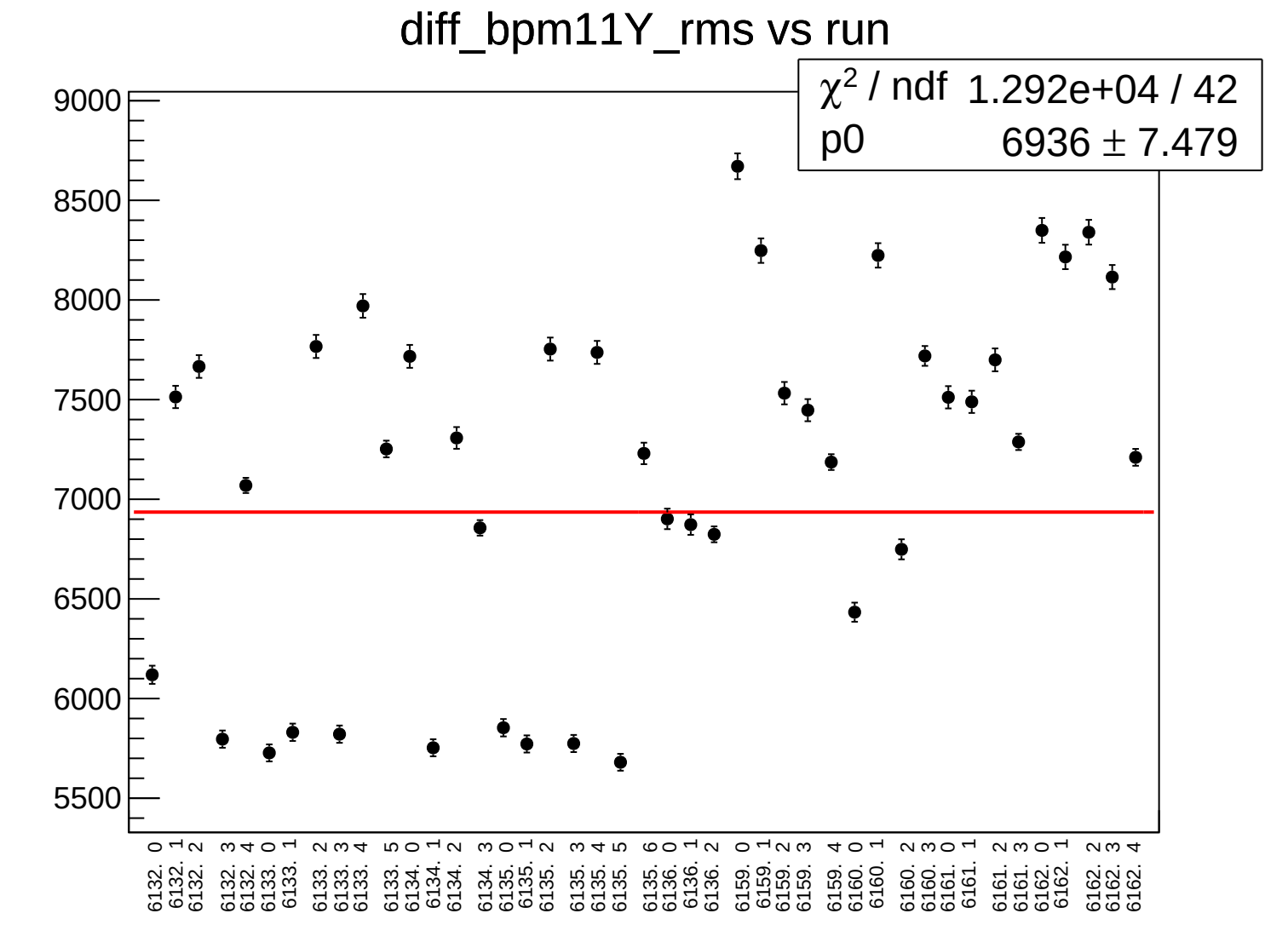

diff_bpm1Y_rms vs run
χ² / ndf 8974 / 42
p0 6800 ± 7.316
8000
7500
7000
6500
6000
5500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

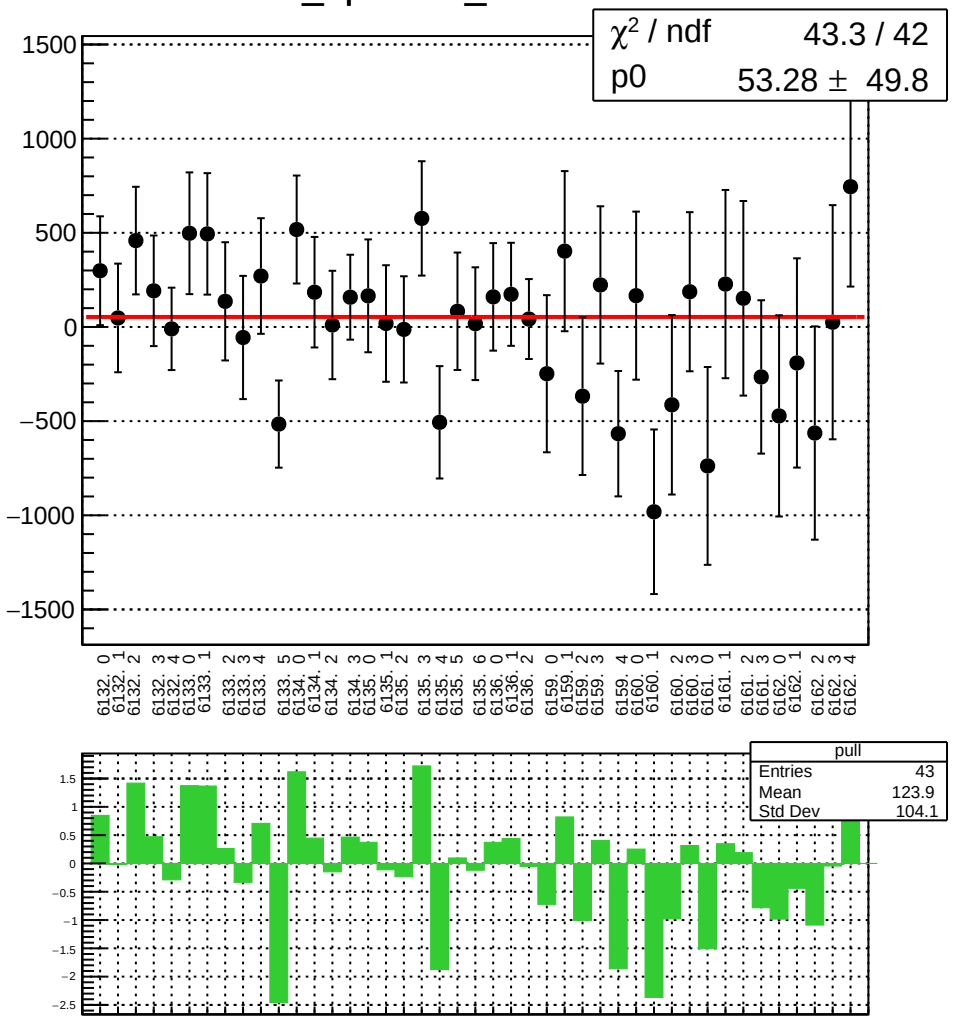

diff_bpm11X_mean vs run
χ² / ndf 42.05 / 42
p0 19.12 ± 19.32
400
200
0
−200
−400
−600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 143.2
Std Dev 123.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.03558
Std Dev 0.9883
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

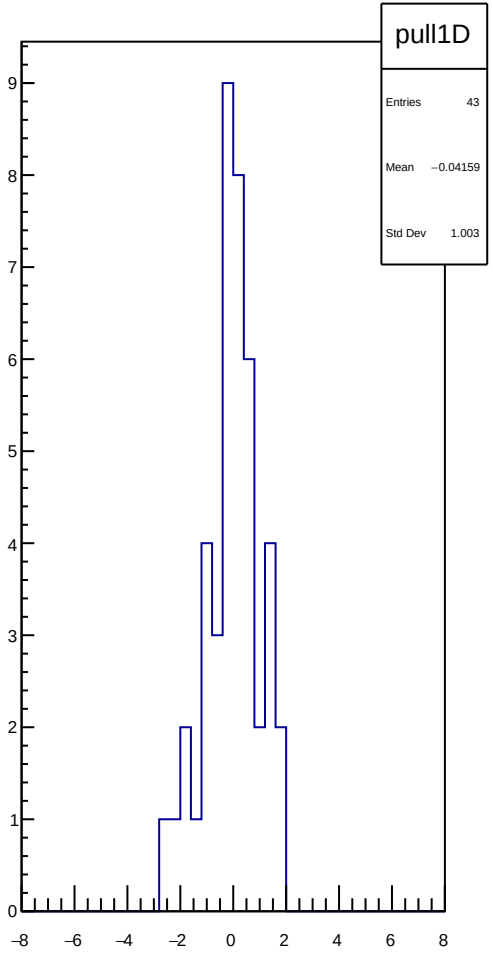

diff_bpm11X_rms vs run
χ² / ndf 4.133e+04 / 42
p0 1.246e+04 ± 13.66
24000
22000
20000
18000
16000
14000
12000
10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

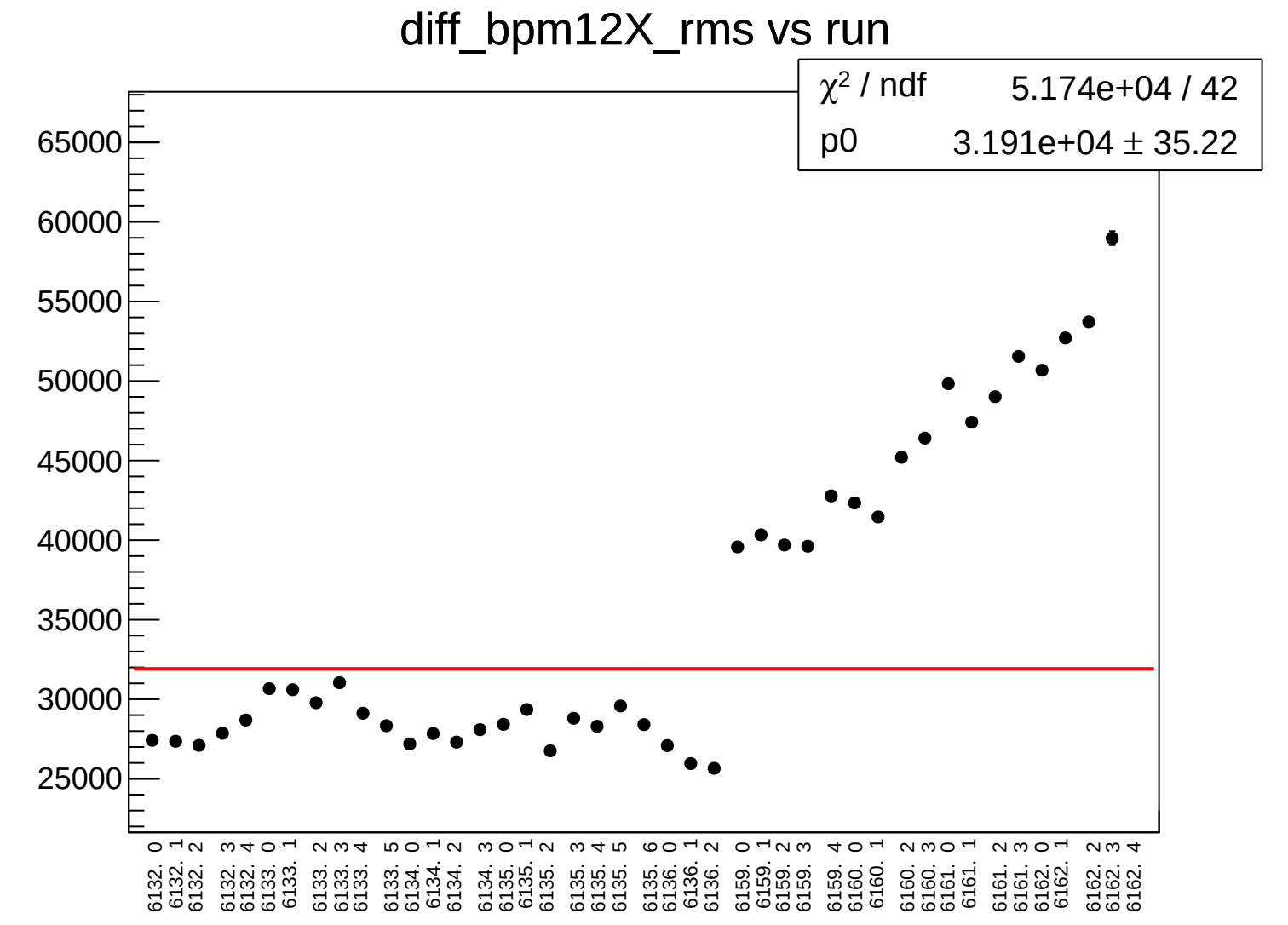

diff_bpm11Y_mean vs run
χ² / ndf 23.23 / 42
p0 0.2716 ± 10.58
pull
Entries 43
Mean 60.79
Std Dev 35.79

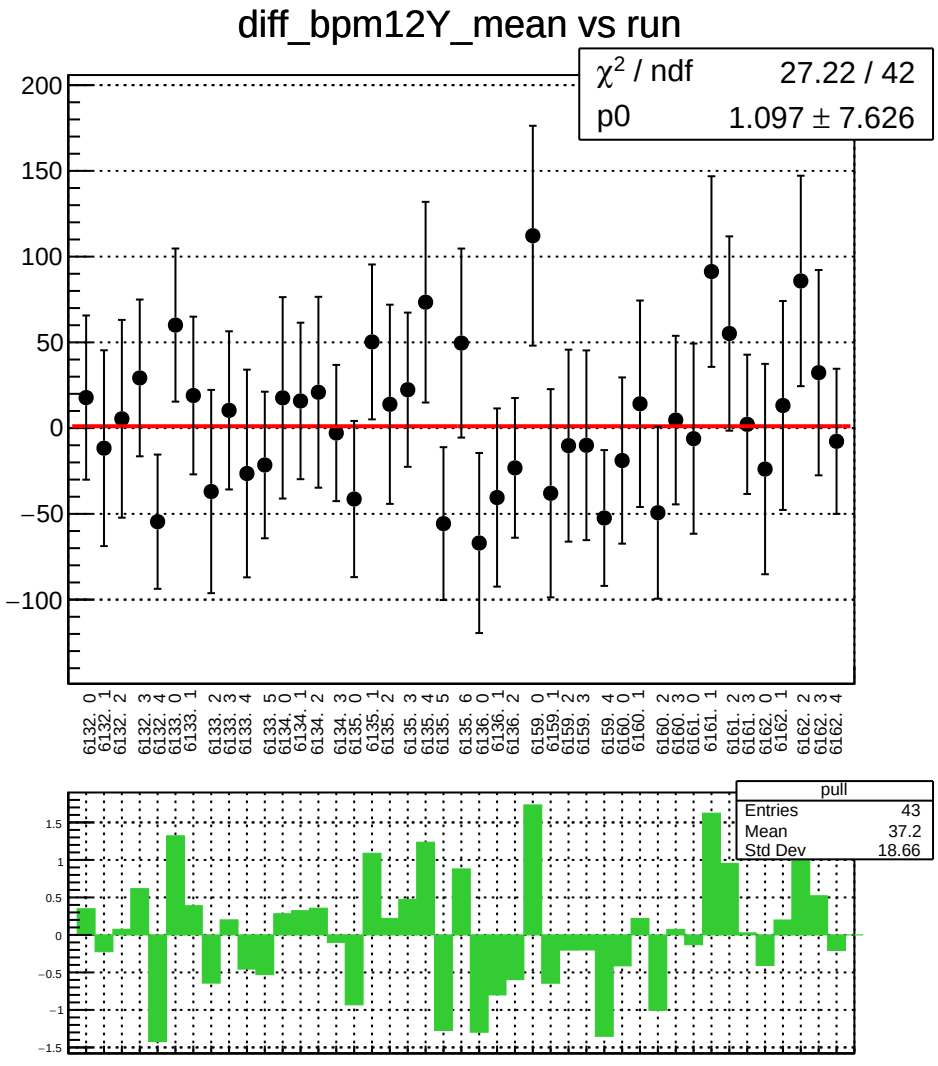

pull1D
Entries 43
Mean 0.04416
Std Dev 0.7337

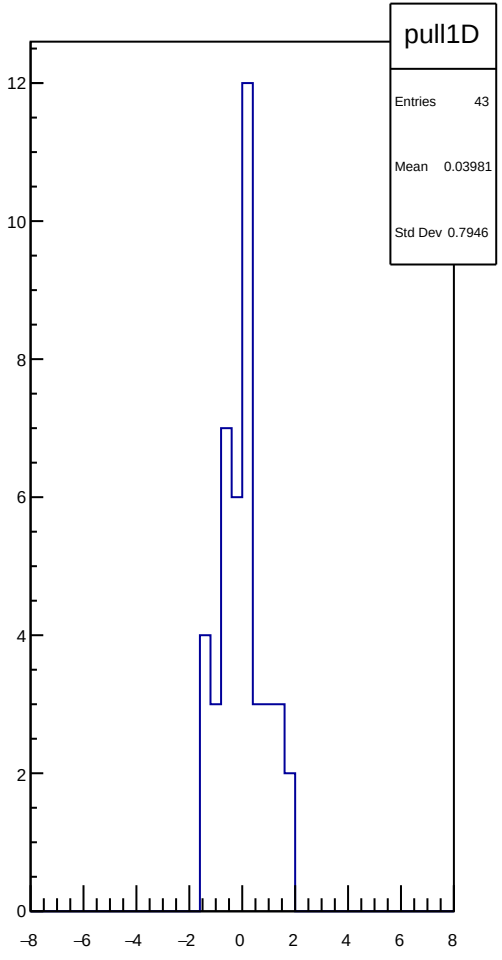

diff_bpm11Y_rms vs run
χ² / ndf 1.292e+04 / 42
p0 6936 ± 7.479
9000
8500
8000
7500
7000
6500
6000
5500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

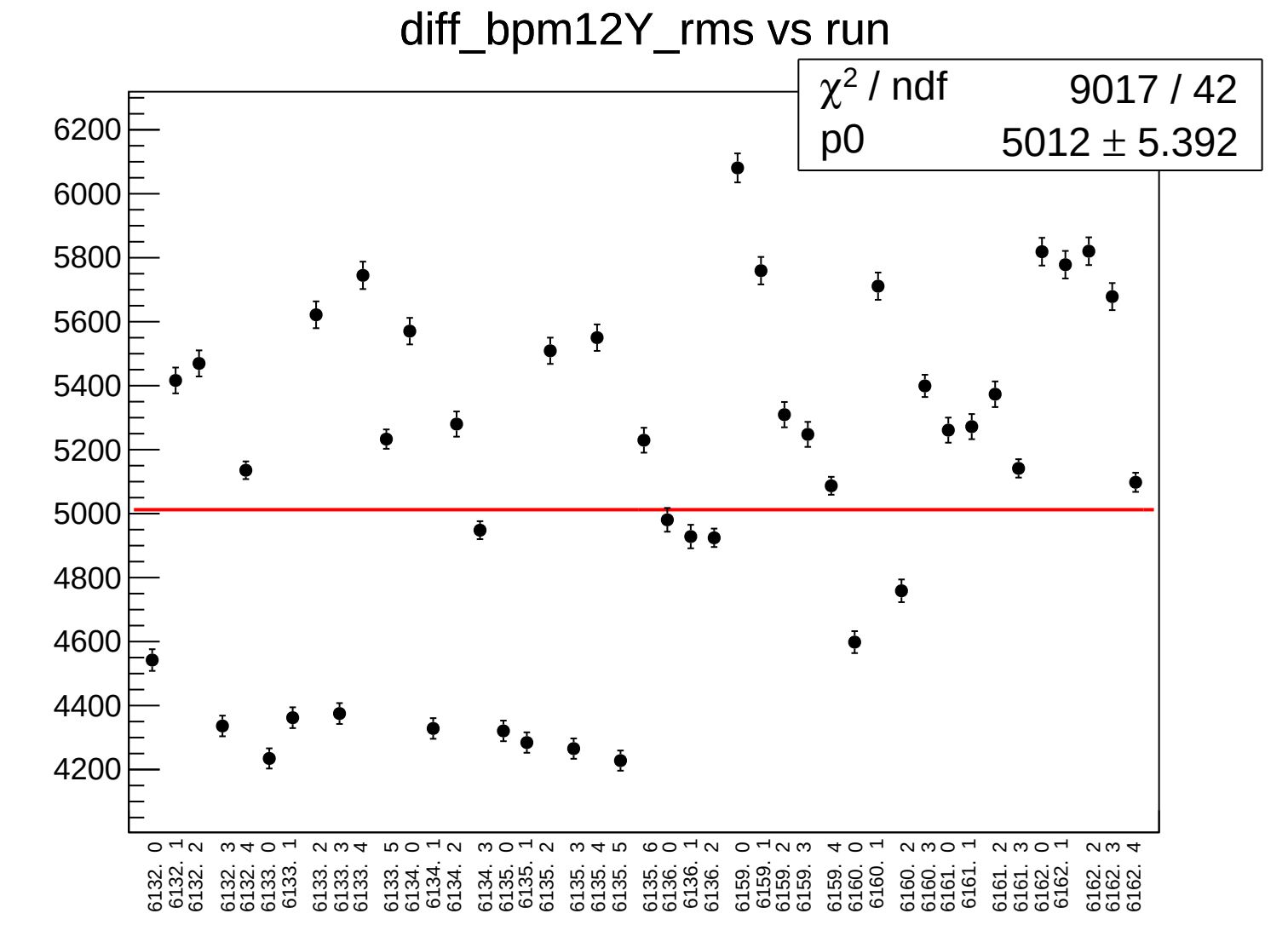

diff_bpm12X_mean vs run
χ² / ndf 43.3 / 42
p0 53.28 ± 49.8
1500
1000
500
0
−500
−1000
−1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 123.9
Std Dev 104.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

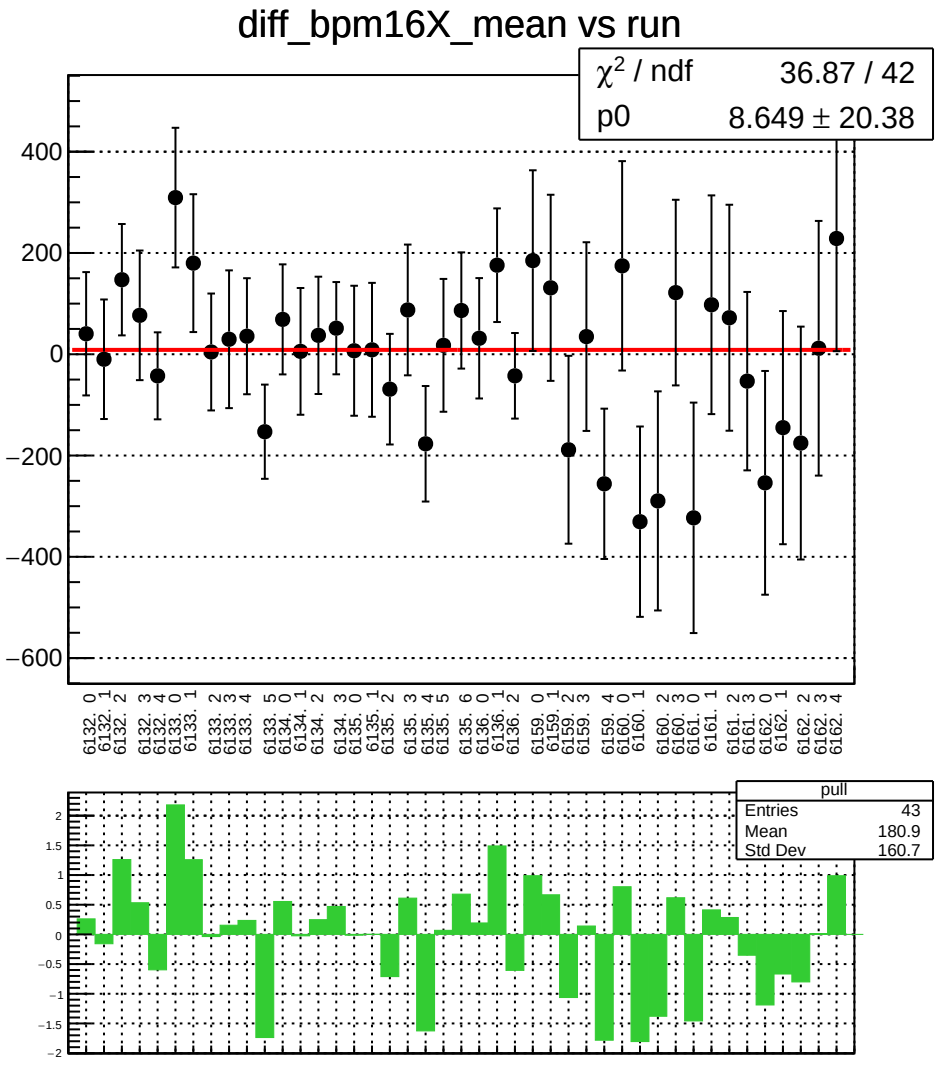

pull1D
Entries 43
Mean −0.04159
Std Dev 1.003
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

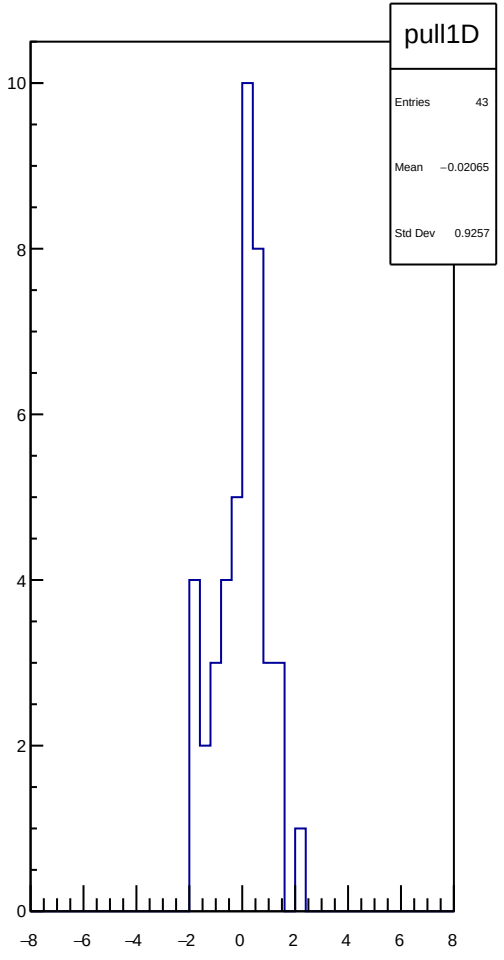

diff_bpm12X_rms vs run
χ² / ndf 5.174e+04 / 42
p0 3.191e+04 ± 35.22
65000
60000
55000
50000
45000
40000
35000
30000
25000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

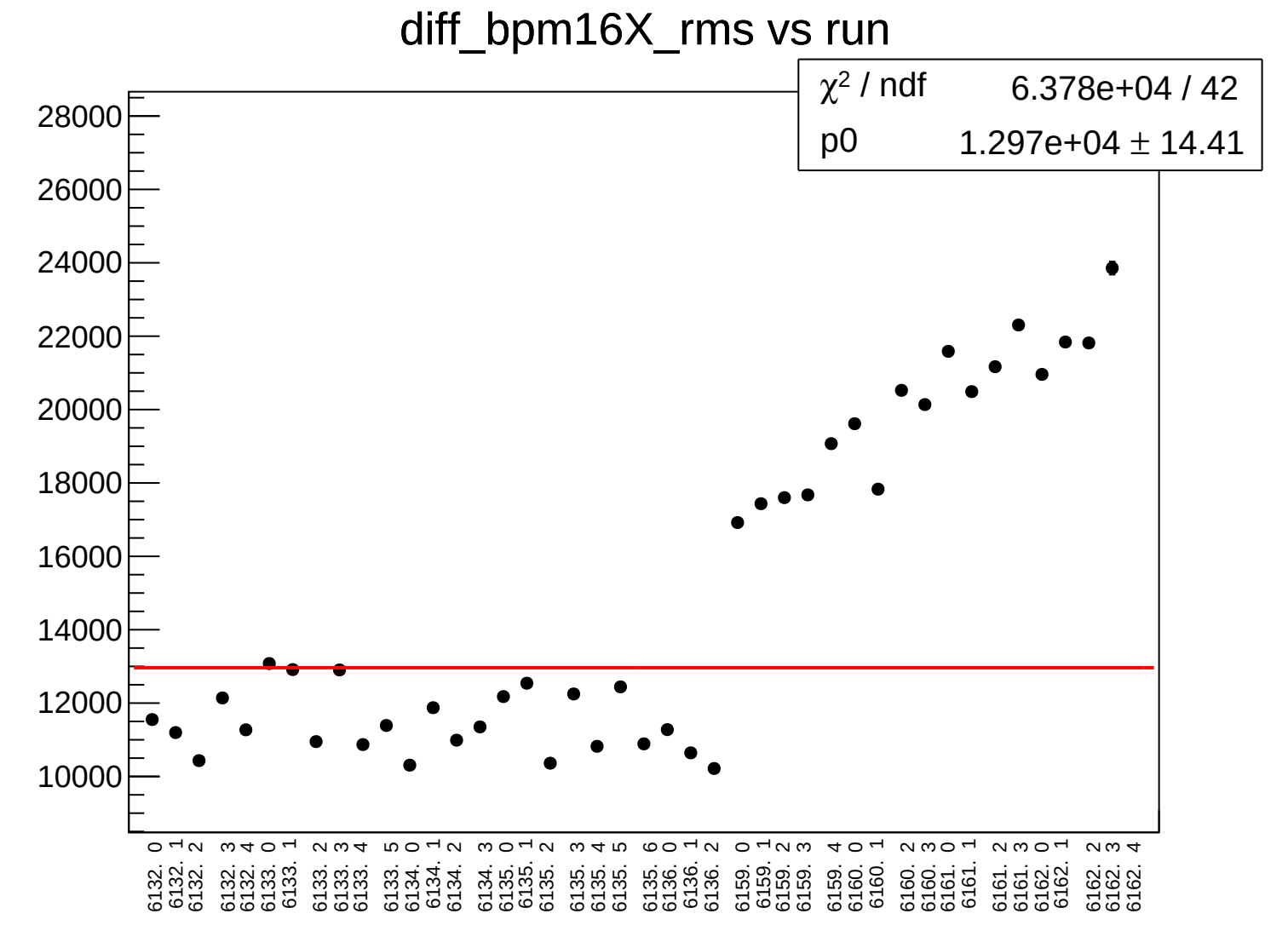

diff_bpm12Y_mean vs run
χ² / ndf 27.22 / 42
p0 1.097 ± 7.626
pull
Entries 43
Mean 37.2
Std Dev 18.66

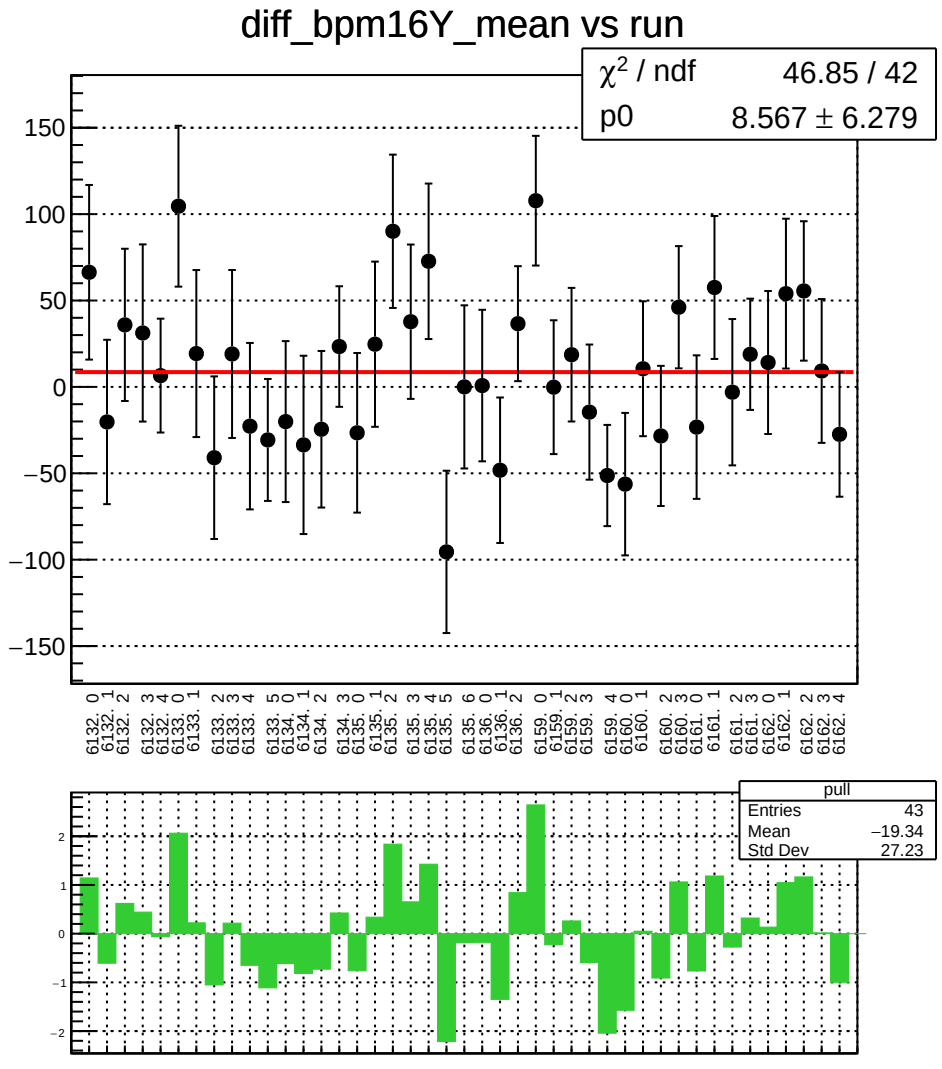

pull1D
Entries 43
Mean 0.03981
Std Dev 0.7946

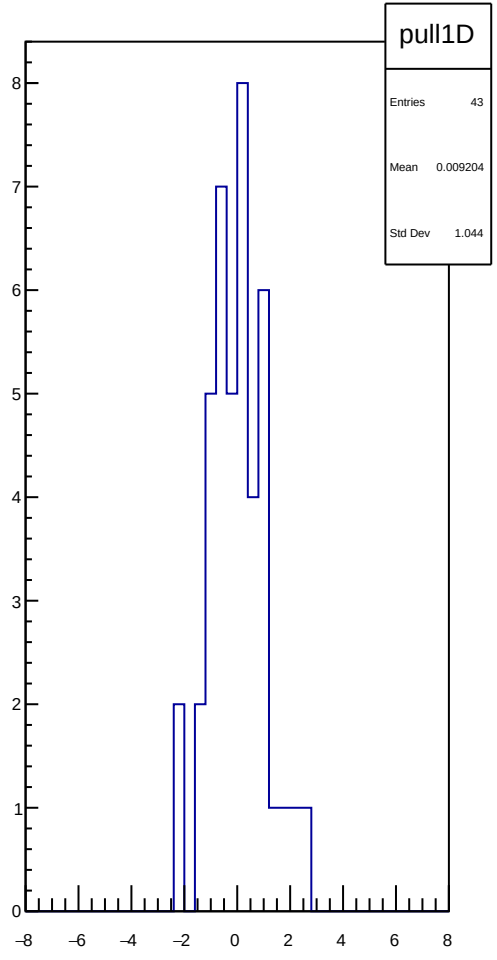

diff_bpm12Y_rms vs run
χ² / ndf 9017 / 42
p0 5012 ± 5.392
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

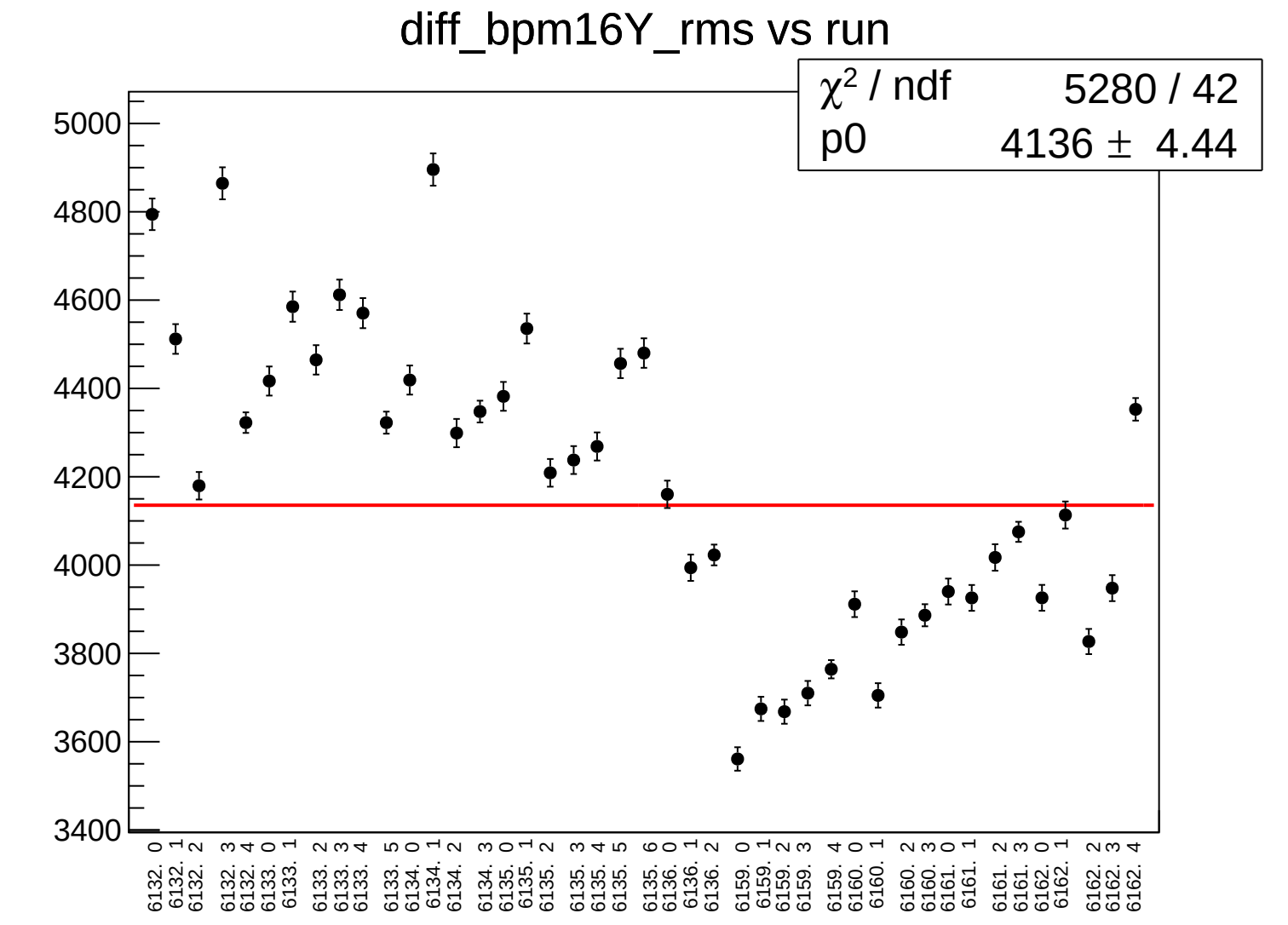

diff_bpm16X_mean vs run
χ² / ndf 36.87 / 42
p0 8.649 ± 20.38
400
200
0
−200
−400
−600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 180.9
Std Dev 160.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

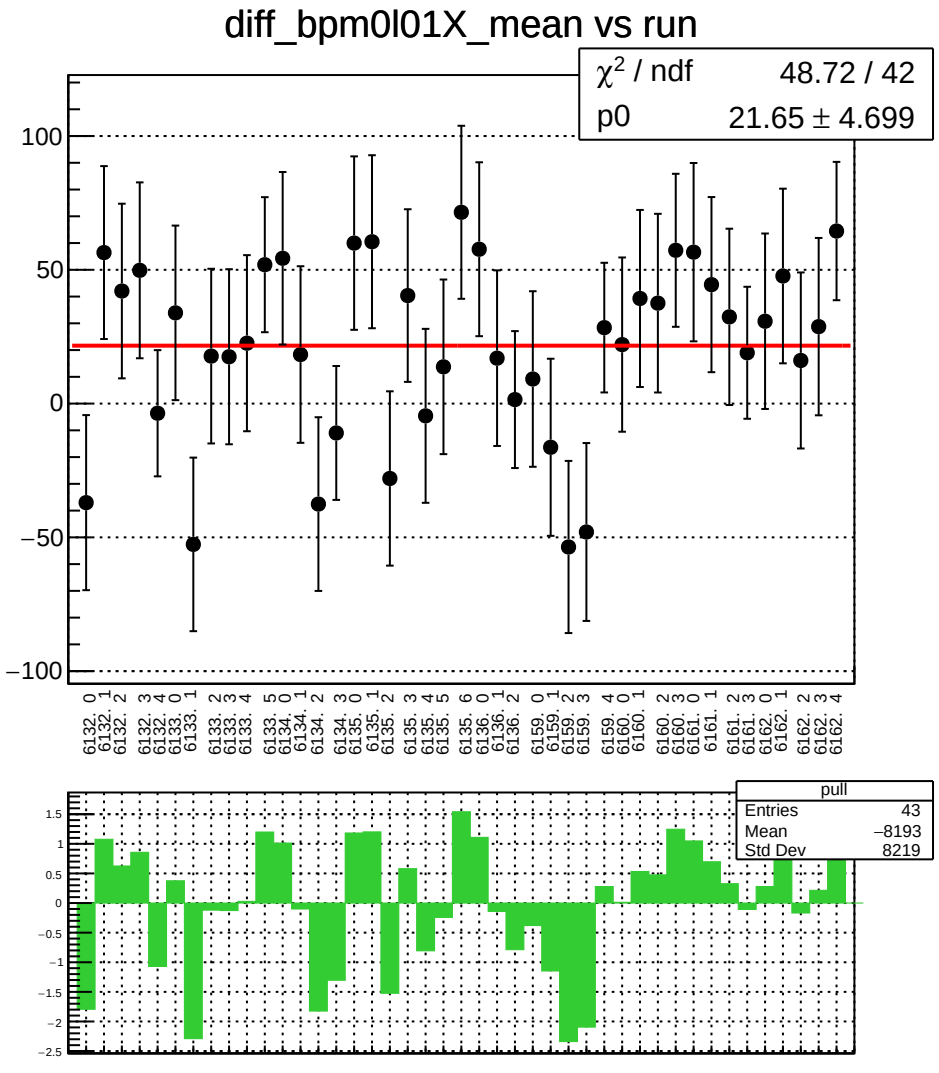

pull1D
Entries 43
Mean −0.02065
Std Dev 0.9257
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

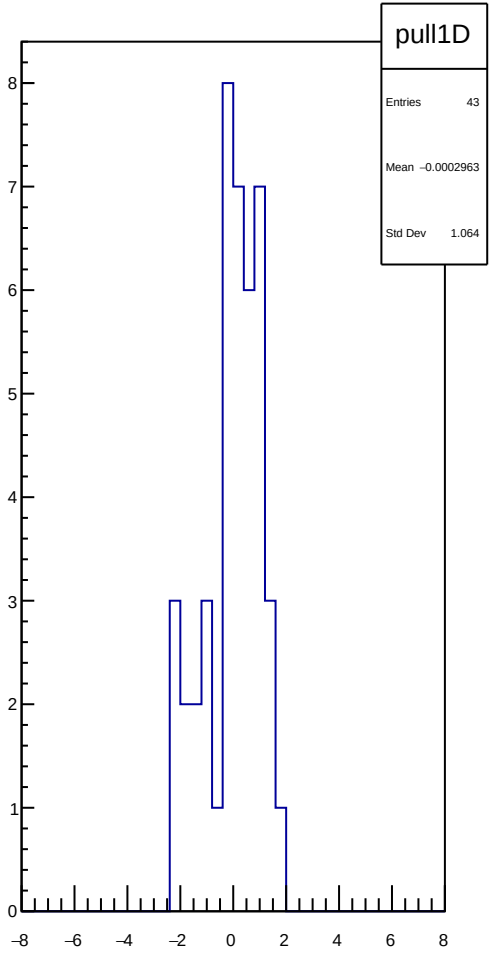

diff_bpm16X_rms vs run
χ² / ndf 6.378e+04 / 42
p0 1.297e+04 ± 14.41
28000
26000
24000
22000
20000
18000
16000
14000
12000
10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

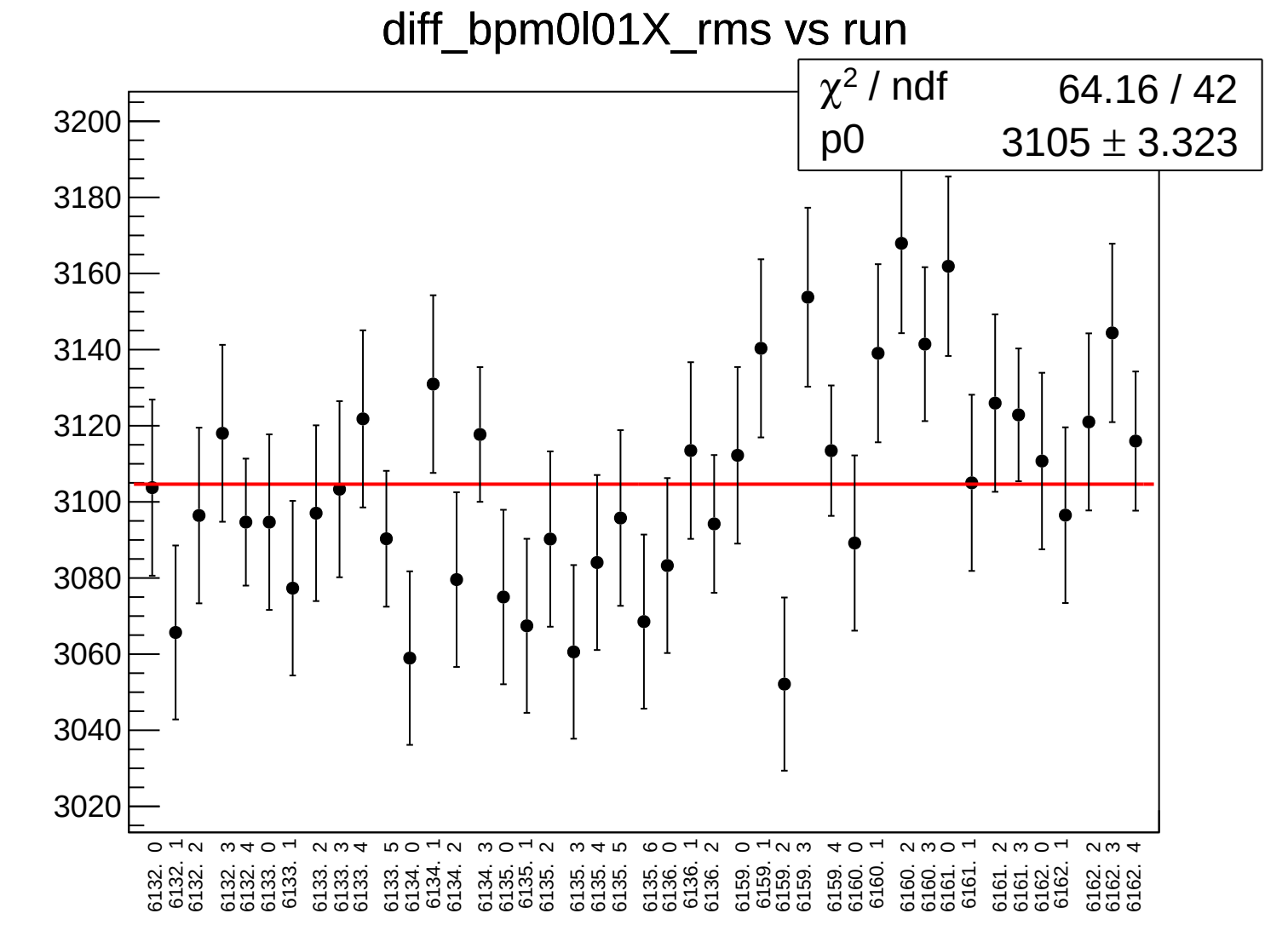

diff_bpm16Y_mean vs run
χ² / ndf 46.85 / 42
p0 8.567 ± 6.279
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −19.34
Std Dev 27.23
2
1
0
−1
−2

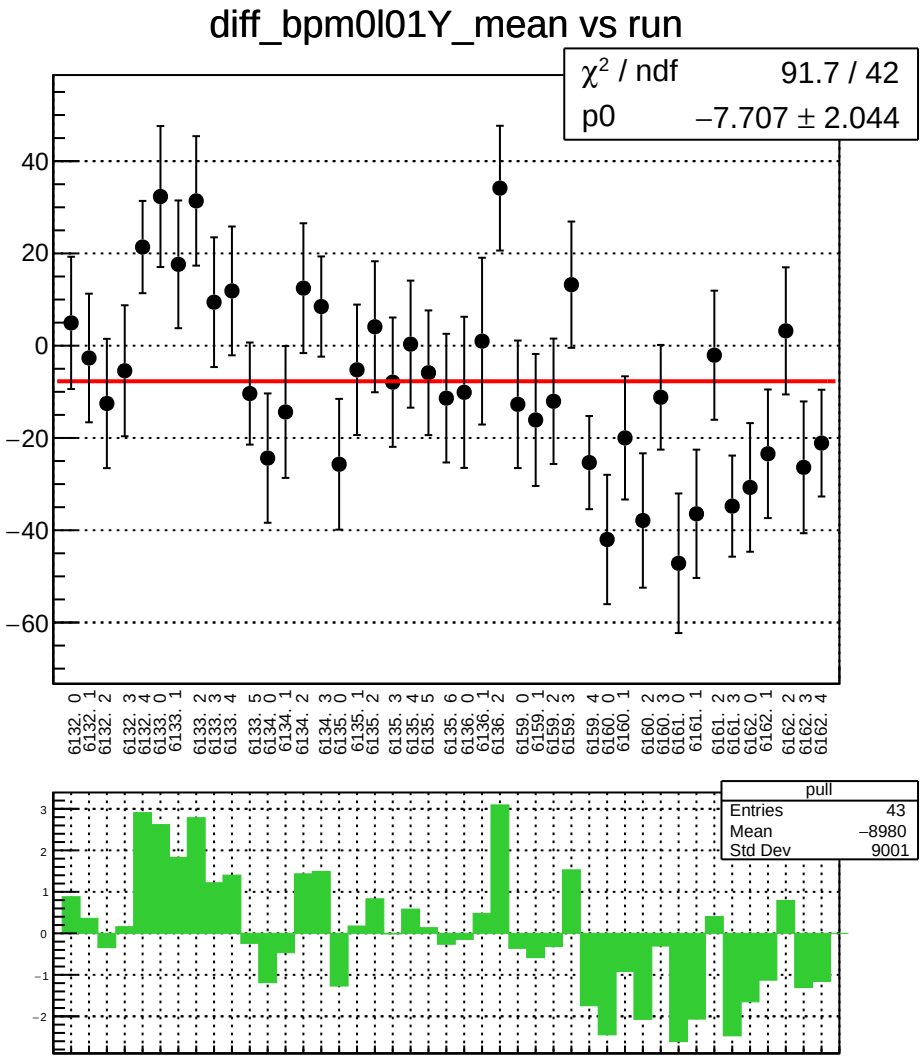

pull1D
Entries 43
Mean 0.009204
Std Dev 1.044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

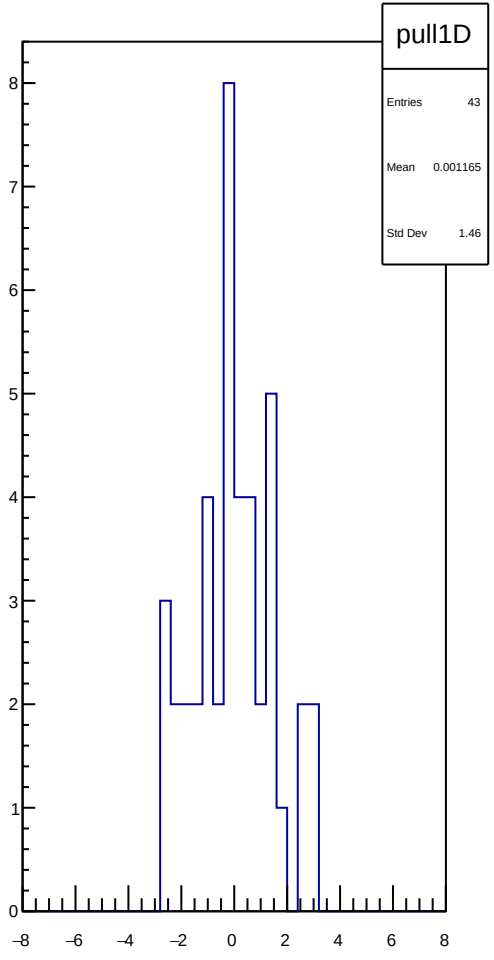

diff_bpm16Y_rms vs run
χ² / ndf 5280 / 42
p0 4136 ± 4.44
5000
4800
4600
4400
4200
4000
3800
3600
3400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

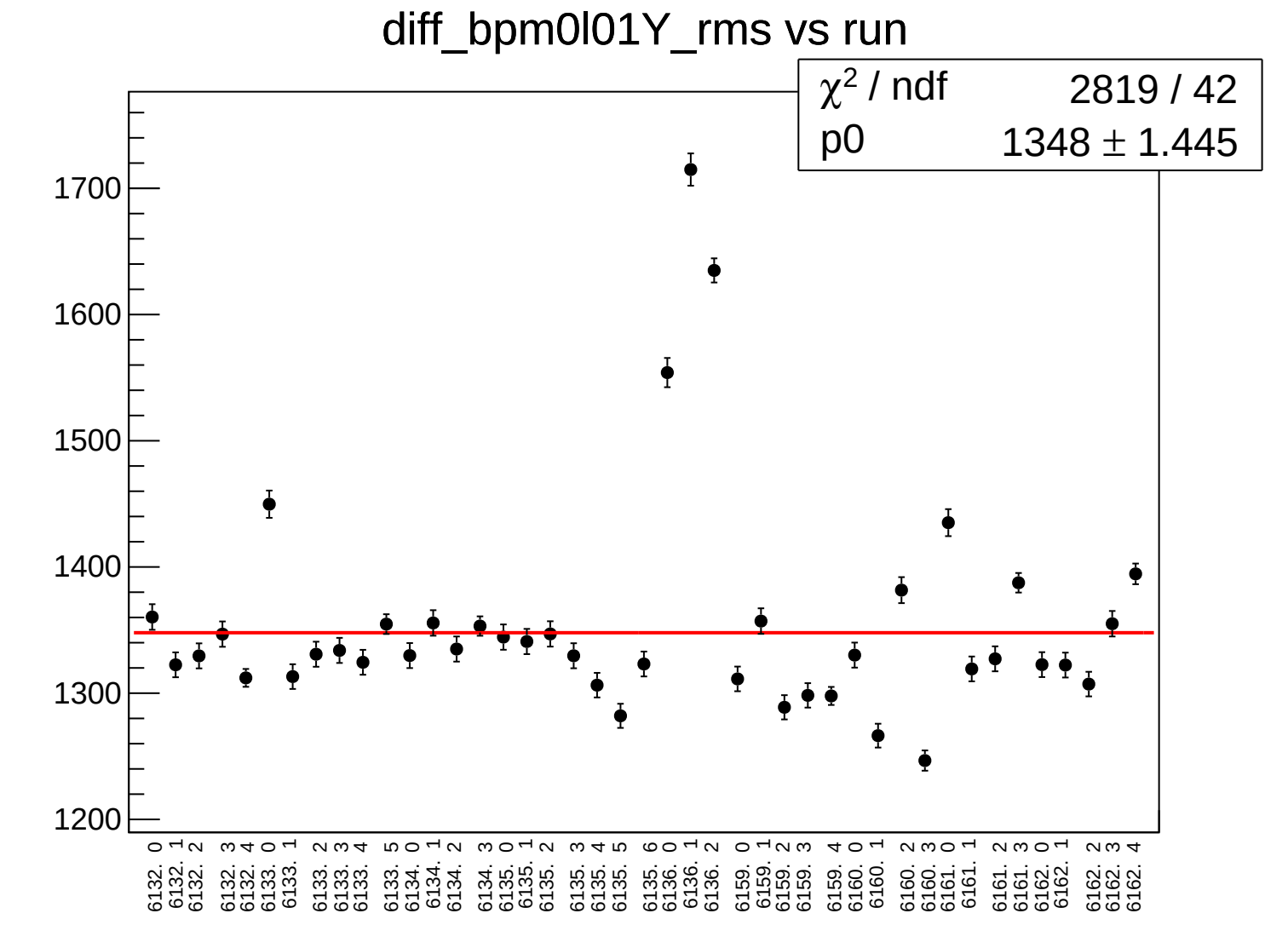

diff_bpm0l01X_mean vs run
χ² / ndf 48.72 / 42
p0 21.65 ± 4.699
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −8193
Std Dev 8219
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

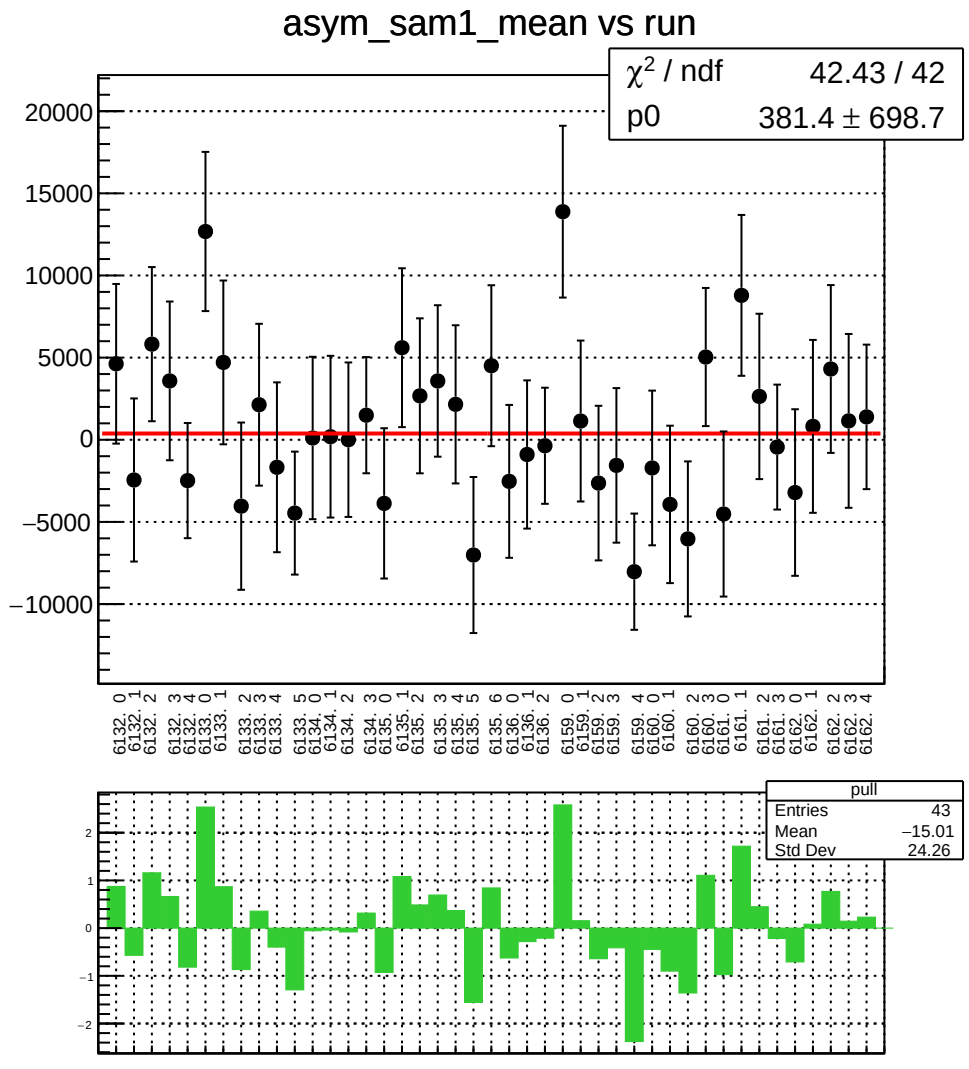

pull1D
Entries 43
Mean −0.0002963
Std Dev 1.064
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

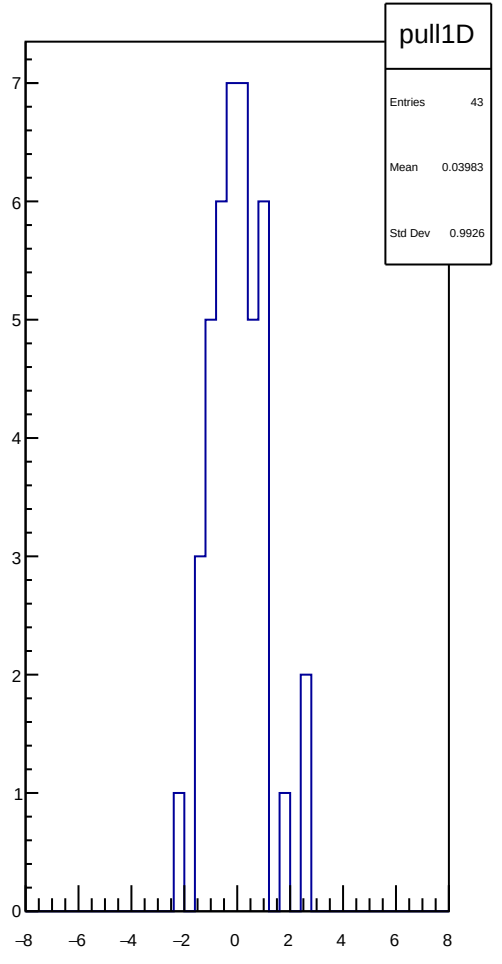

diff_bpm0l01X_rms vs run
χ² / ndf 64.16 / 42
p0 3105 ± 3.323
3200
3180
3160
3140
3120
3100
3080
3060
3040
3020
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

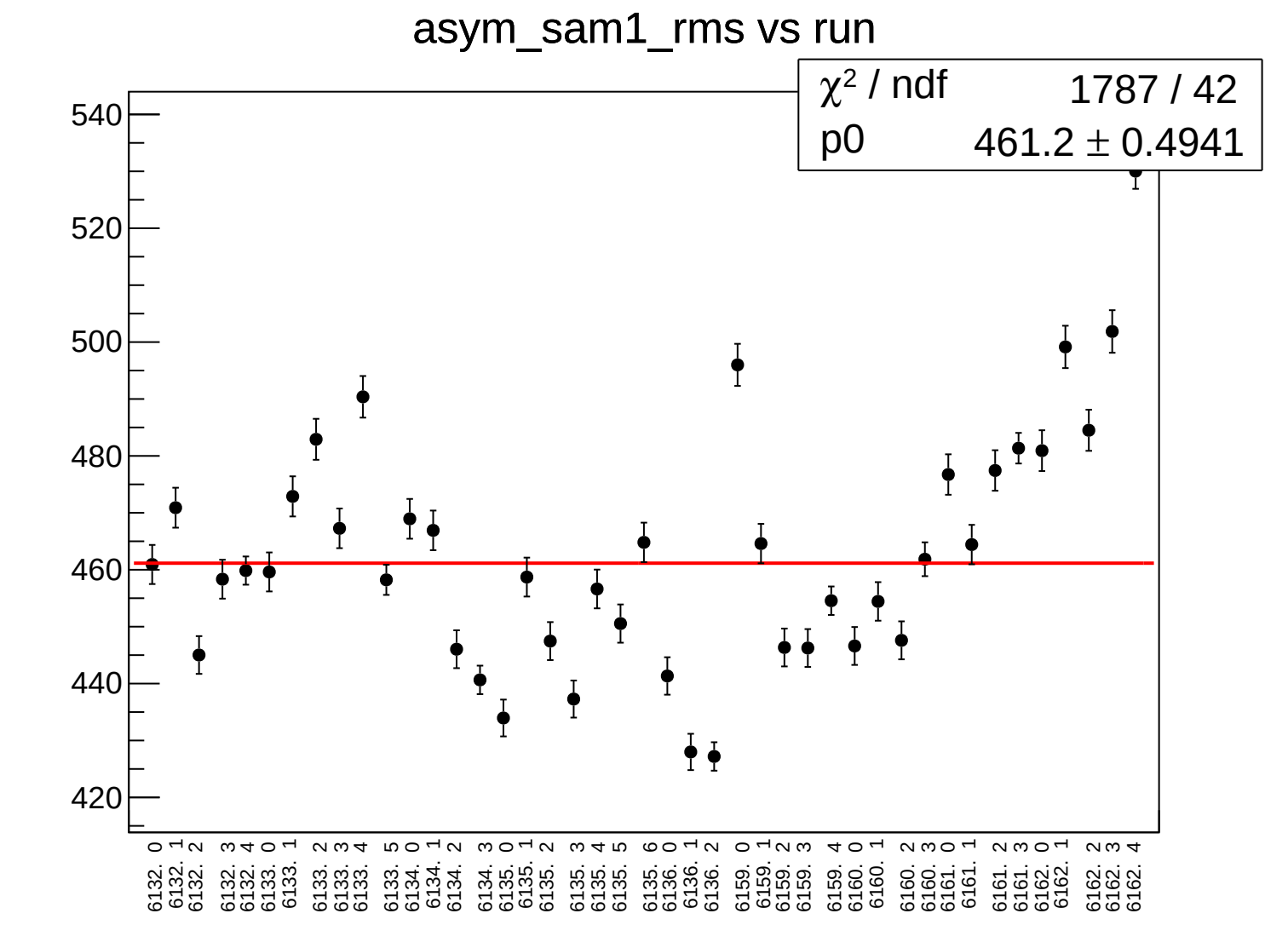

diff_bpm0l01Y_mean vs run
χ² / ndf 91.7 / 42
p0 −7.707 ± 2.044
40
20
0
−20
−40
−60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −8980
Std Dev 9001
3
2
1
0
−1
−2

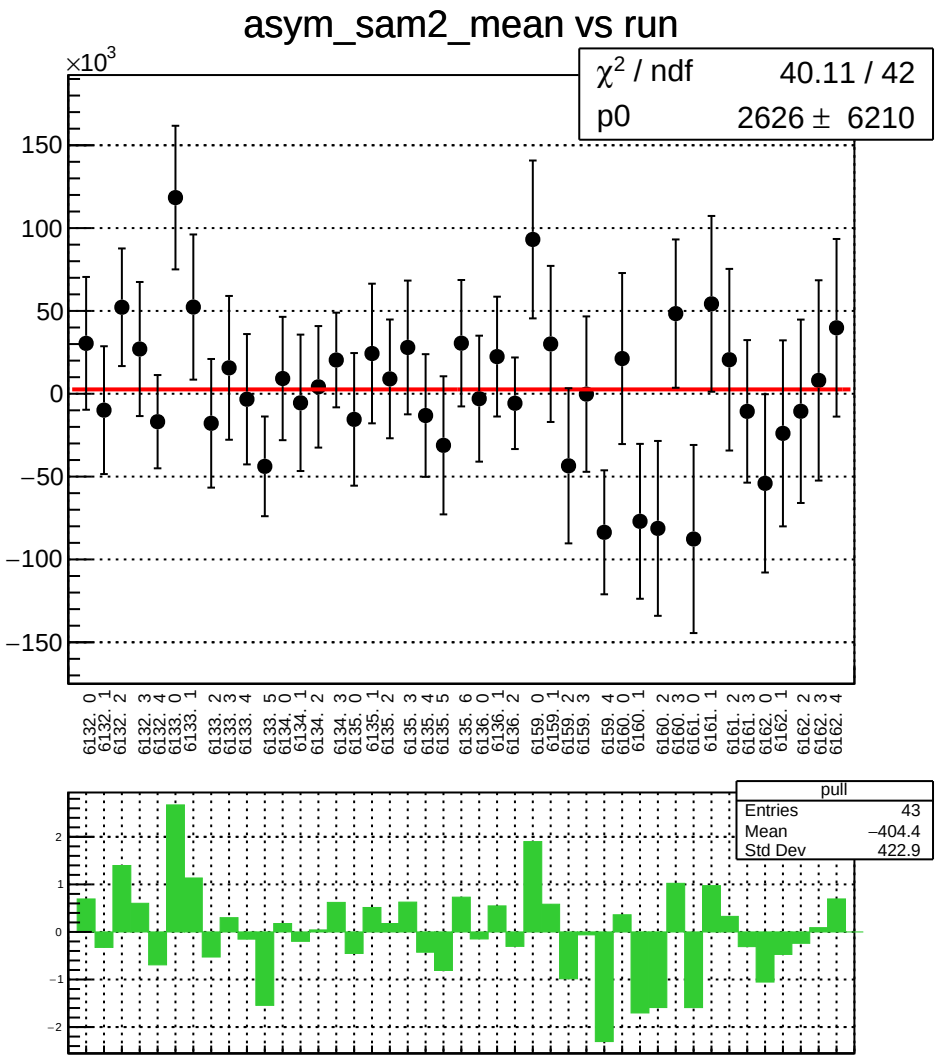

pull1D
Entries 43
Mean 0.001165
Std Dev 1.46
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

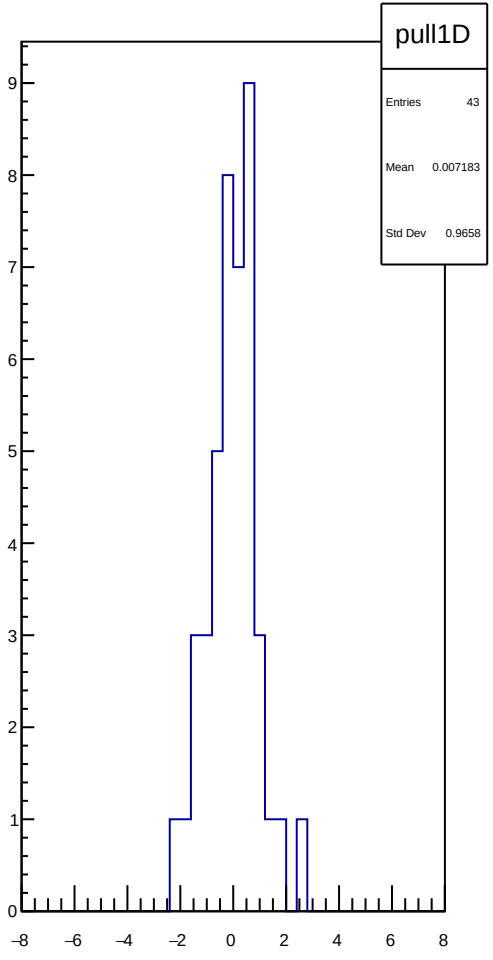

diff_bpm0l01Y_rms vs run
χ² / ndf 2819 / 42
p0 1348 ± 1.445
1700
1600
1500
1400
1300
1200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

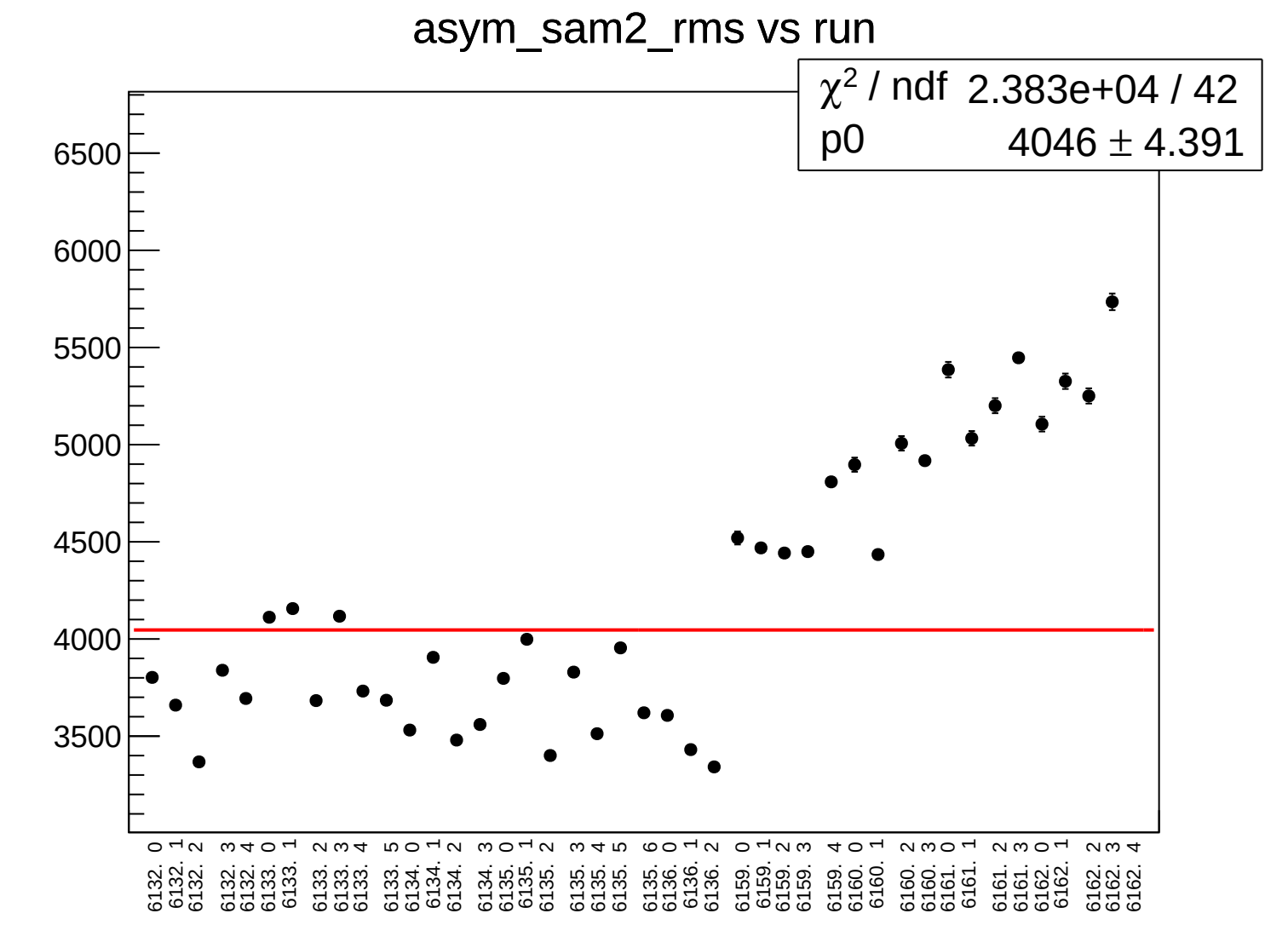

asym_sam1_mean vs run
χ² / ndf 42.43 / 42
p0 381.4 ± 698.7
20000
15000
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −15.01
Std Dev 24.26
2
1
0
−1
−2

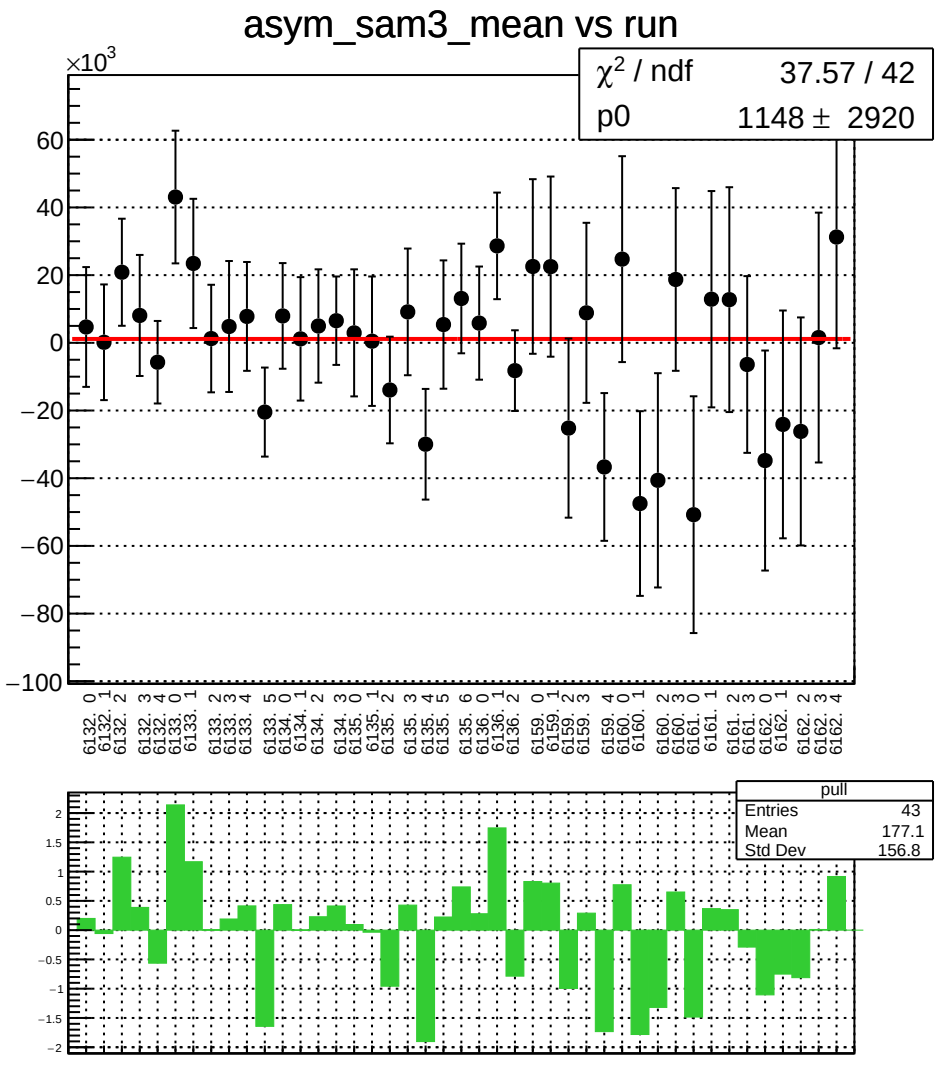

pull1D
Entries 43
Mean 0.03983
Std Dev 0.9926
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

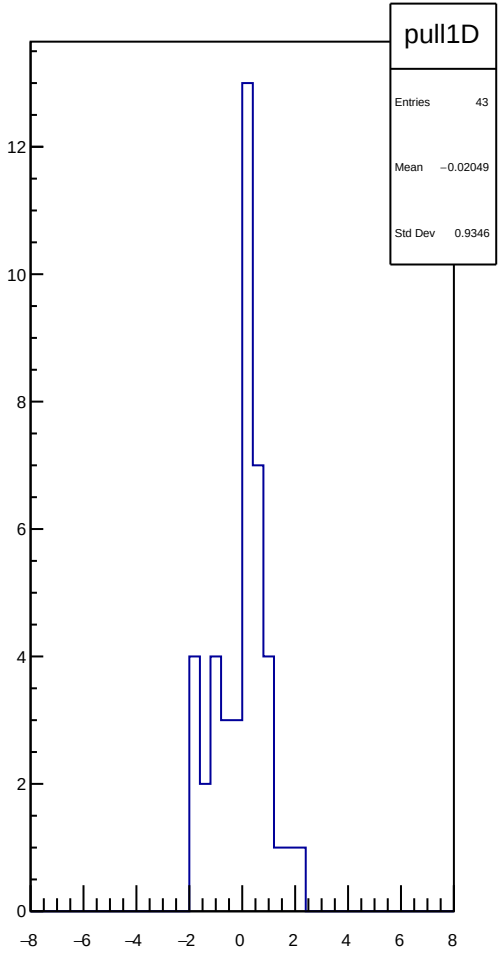

asym_sam1_rms vs run
χ² / ndf 1787 / 42
p0 461.2 ± 0.4941
540
520
500
480
460
440
420
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

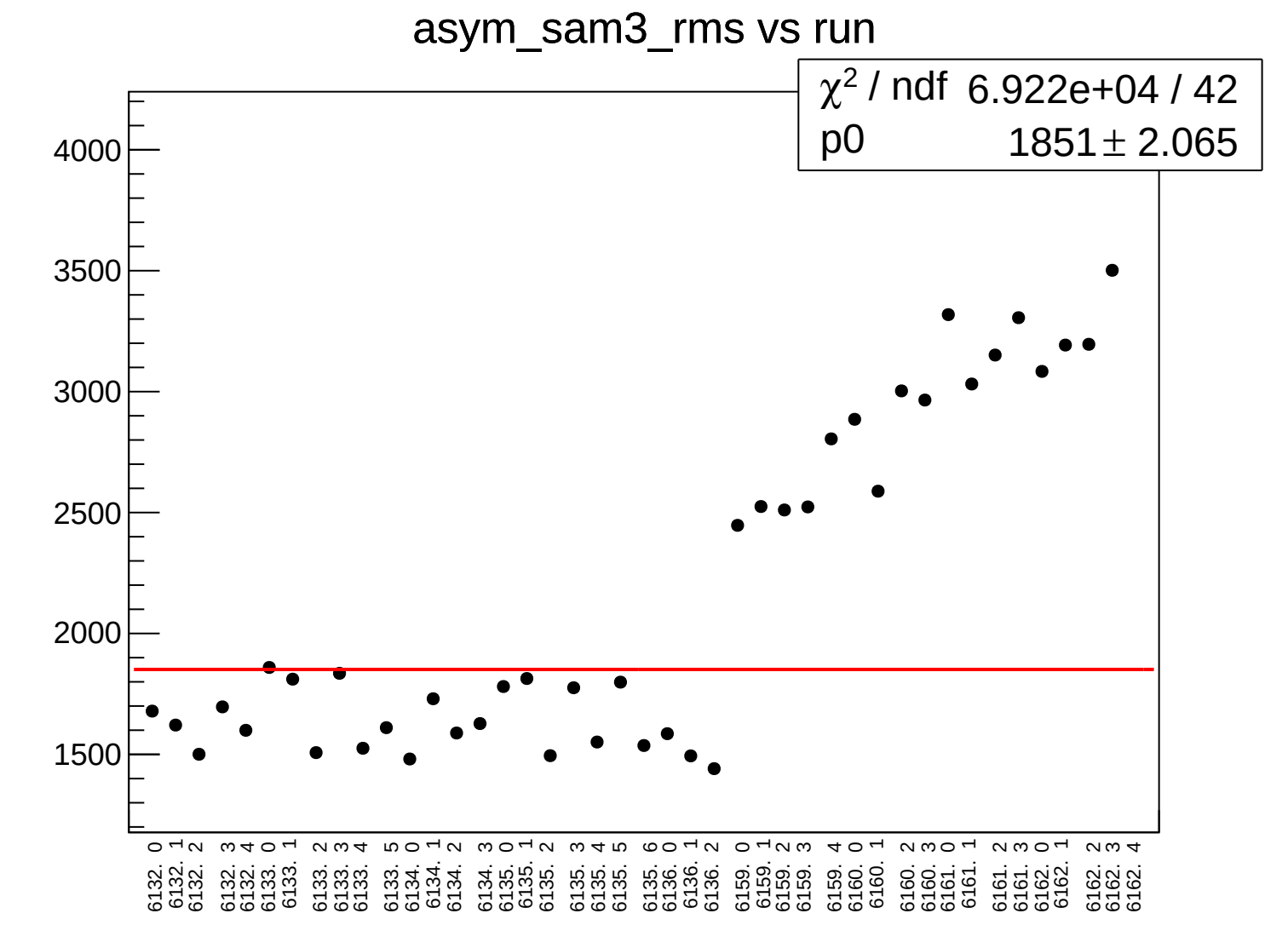

asym_sam2_mean vs run
×10^3
χ^2 / ndf 40.11 / 42
p0 2626 ± 6210
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −404.4
Std Dev 422.9
2
1
0
−1
−2

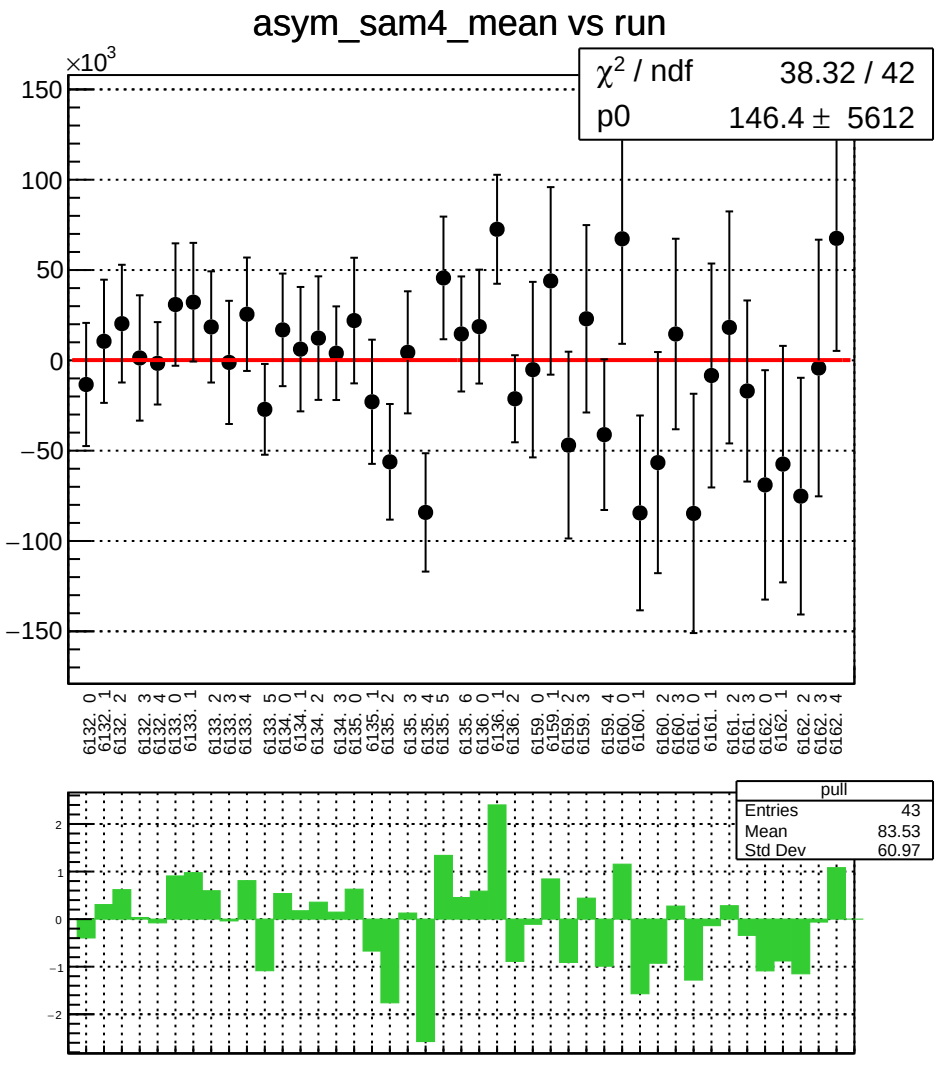

pull1D
Entries 43
Mean 0.007183
Std Dev 0.9658
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

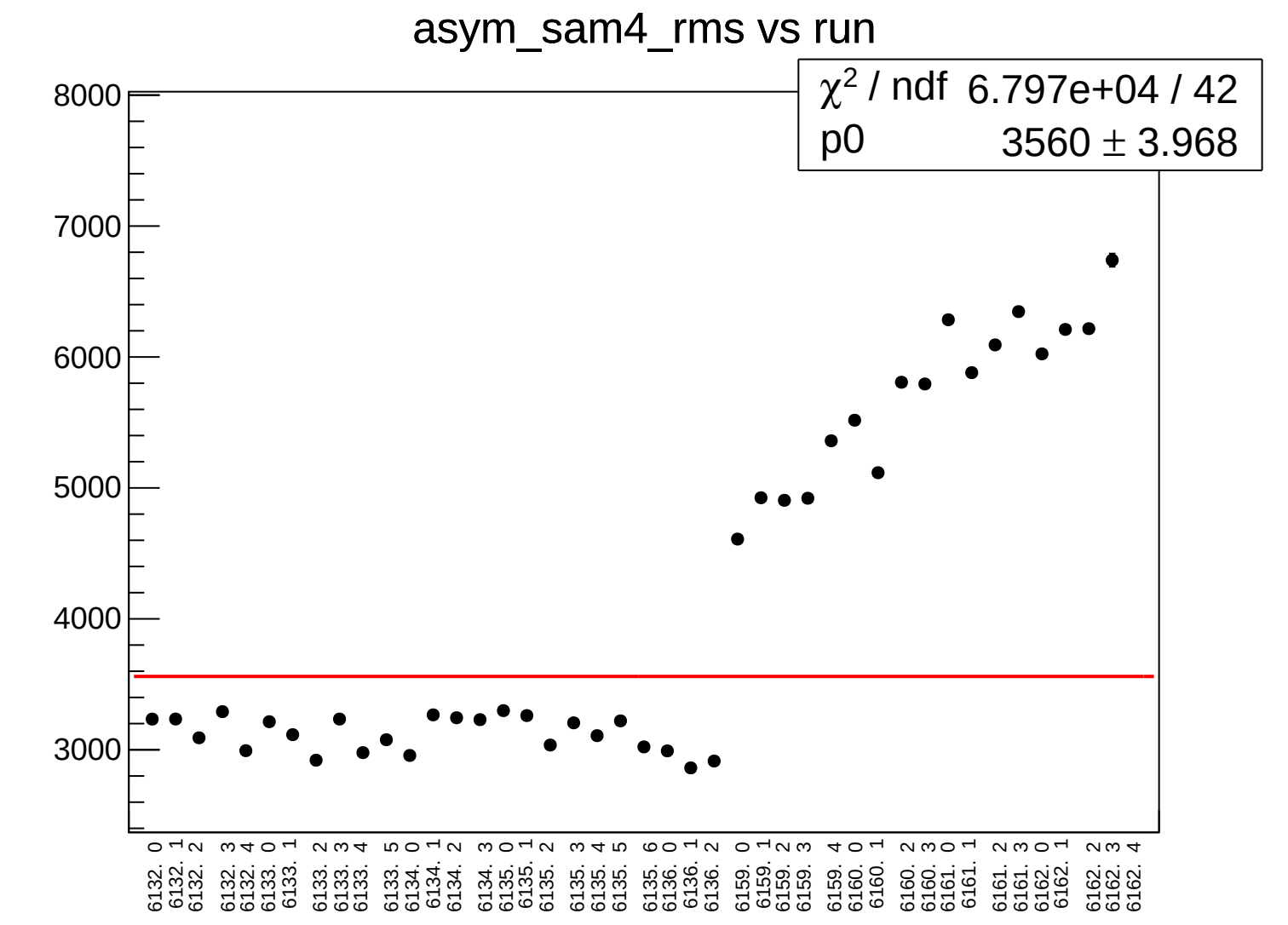

asym_sam2_rms vs run
χ² / ndf 2.383e+04 / 42
p0 4046 ± 4.391
6500
6000
5500
5000
4500
4000
3500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

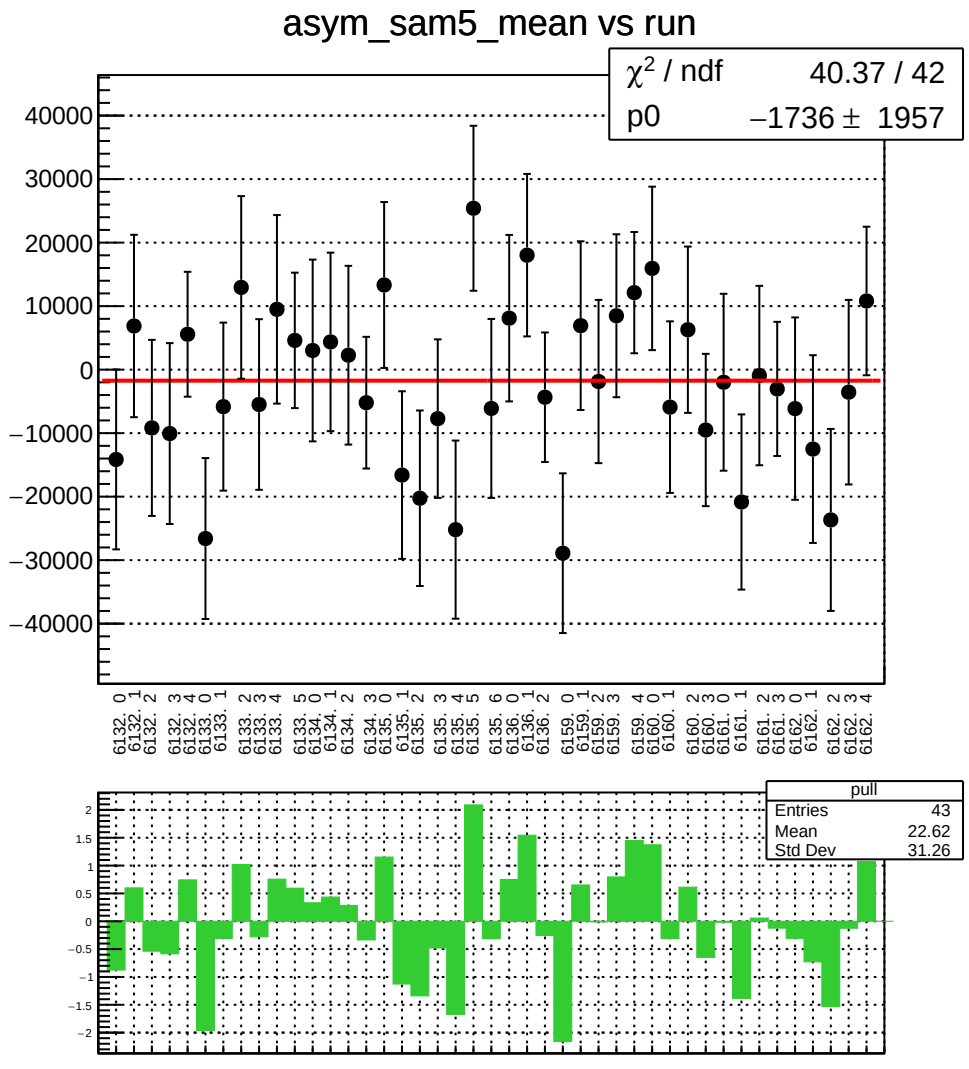

asym_sam3_mean vs run
×10^3
χ² / ndf 37.57 / 42
p0 1148 ± 2920
pull
Entries 43
Mean 177.1
Std Dev 156.8

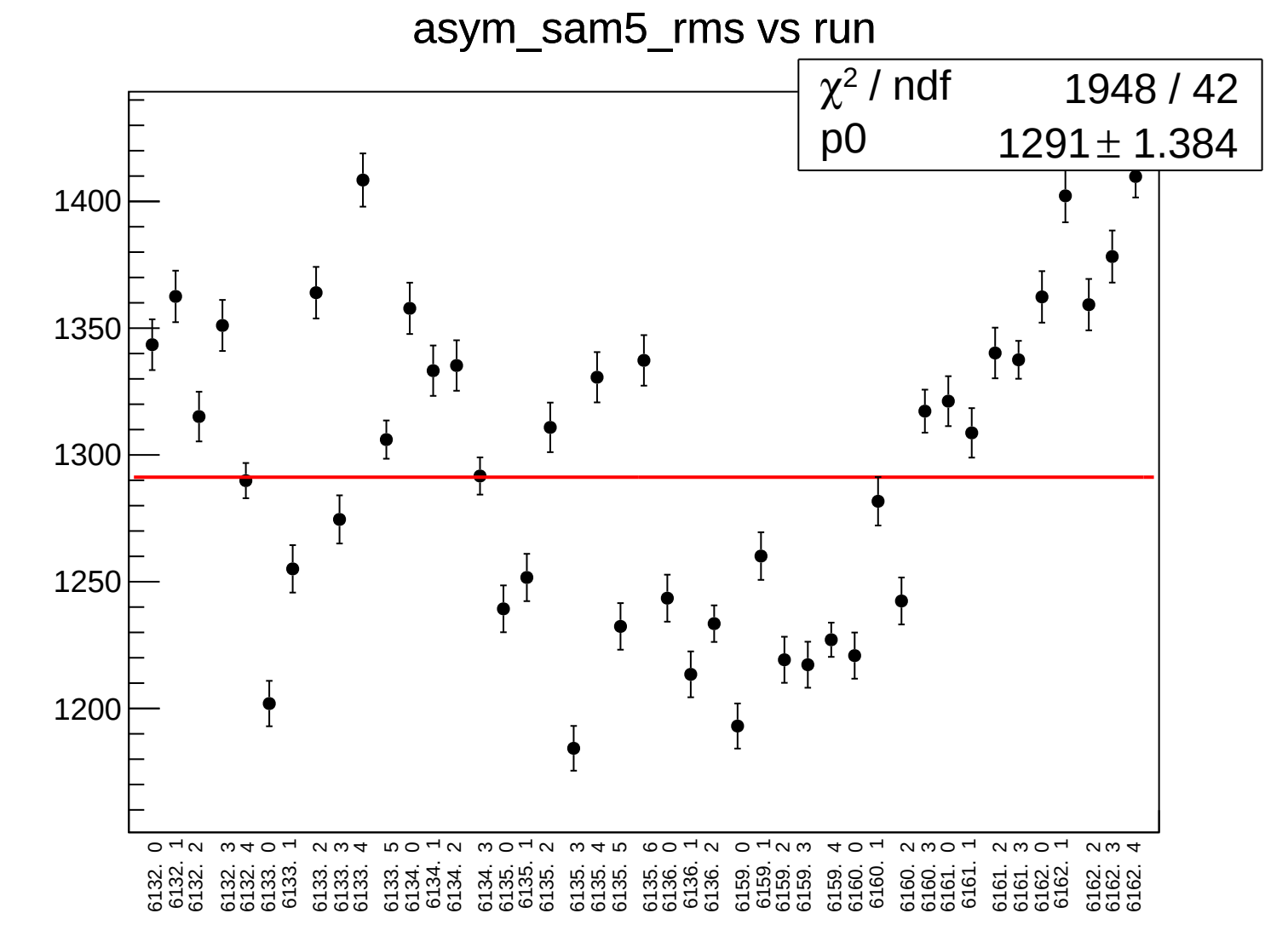

pull1D
Entries 43
Mean −0.02049
Std Dev 0.9346

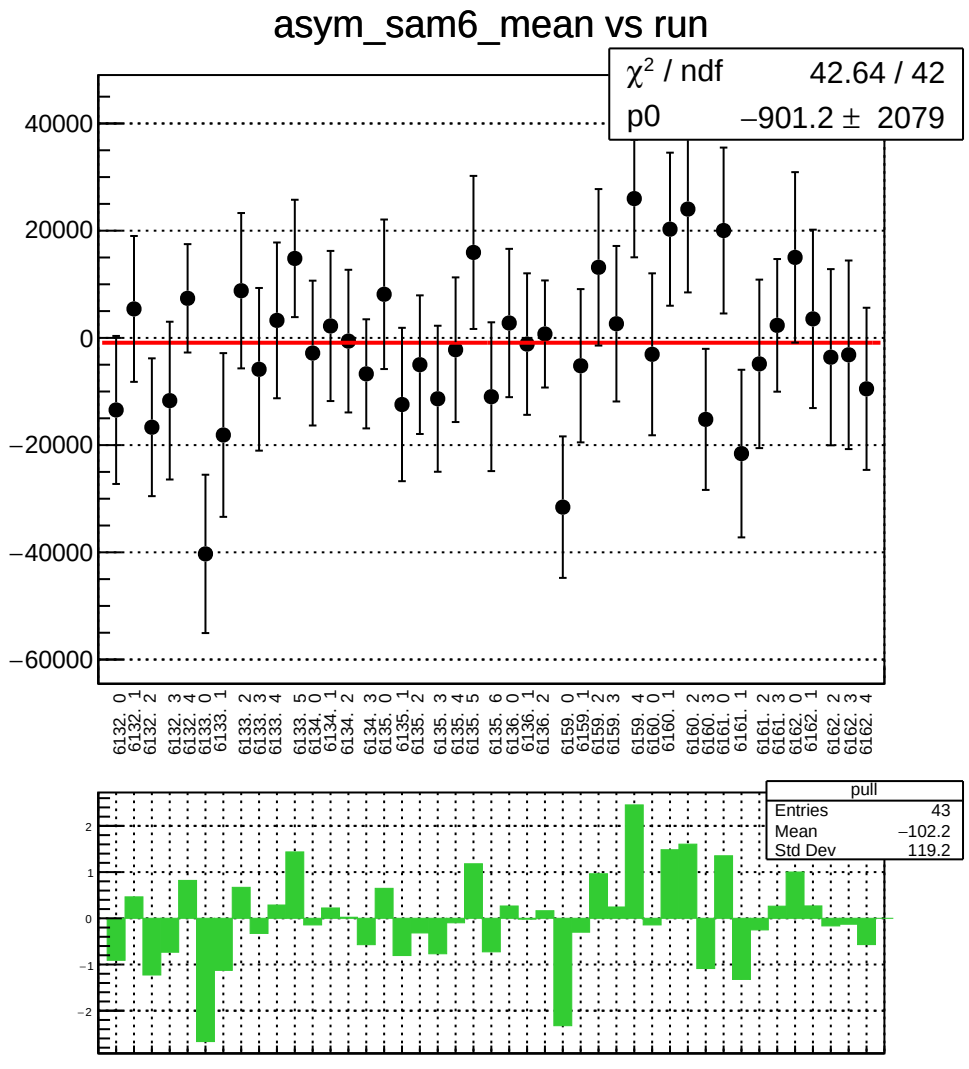

asym_sam3_rms vs run
χ² / ndf 6.922e+04 / 42
p0 1851 ± 2.065
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

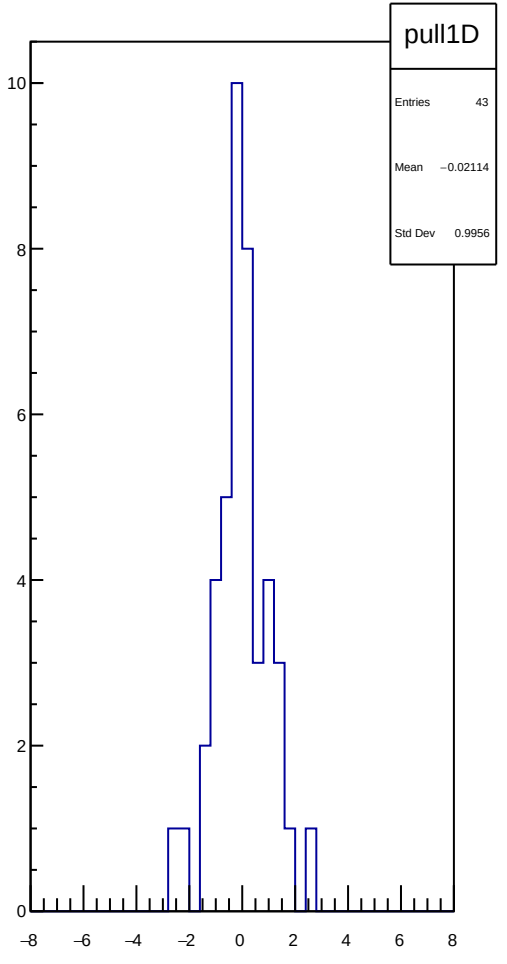

asym_sam4_mean vs run
×10^3
χ^2 / ndf 38.32 / 42
p0 146.4 ± 5612
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 83.53
Std Dev 60.97
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.04308
Std Dev 0.9431
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

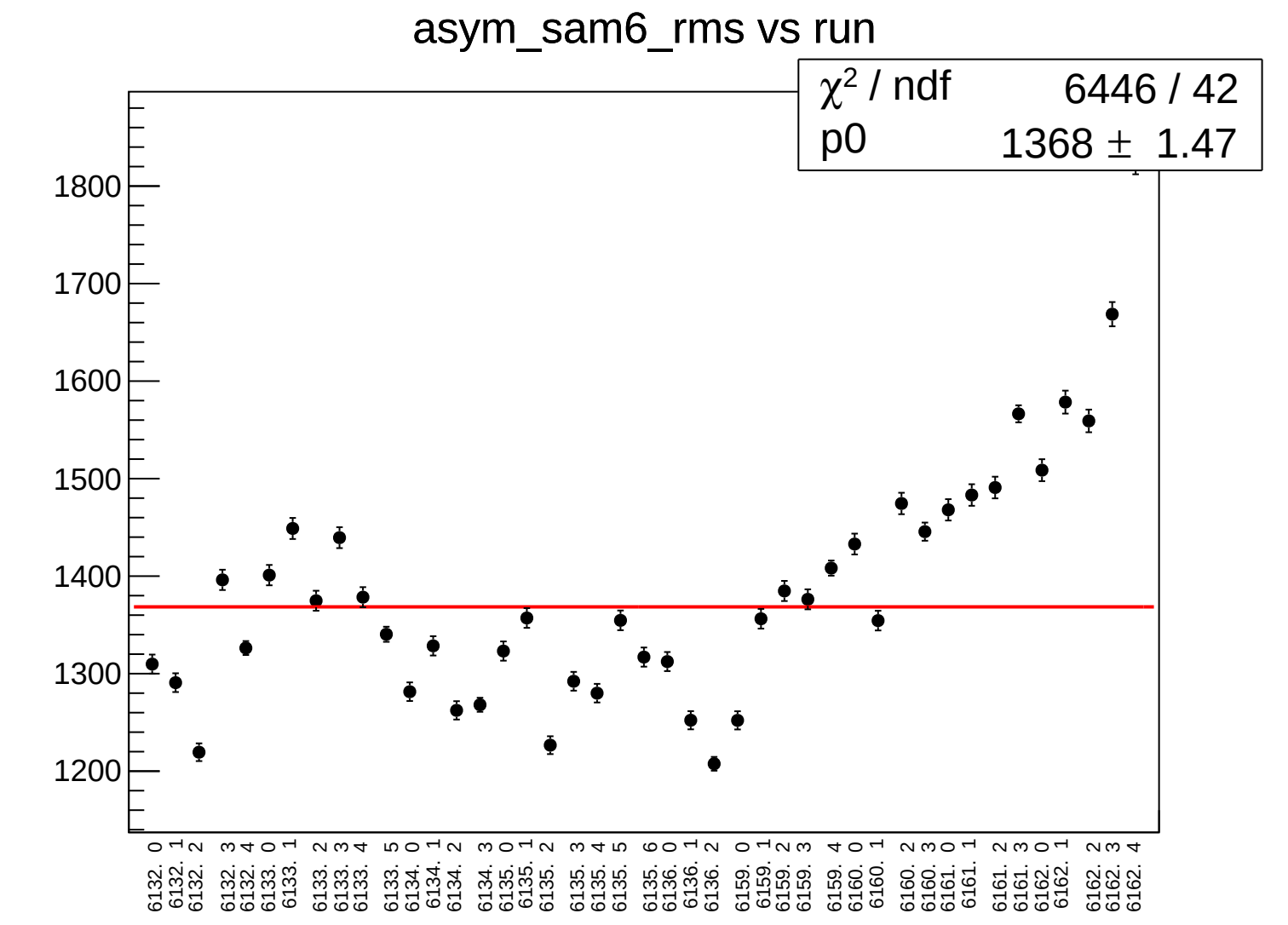

asym_sam4_rms vs run
χ² / ndf 6.797e+04 / 42
p0 3560 ± 3.968
8000
7000
6000
5000
4000
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

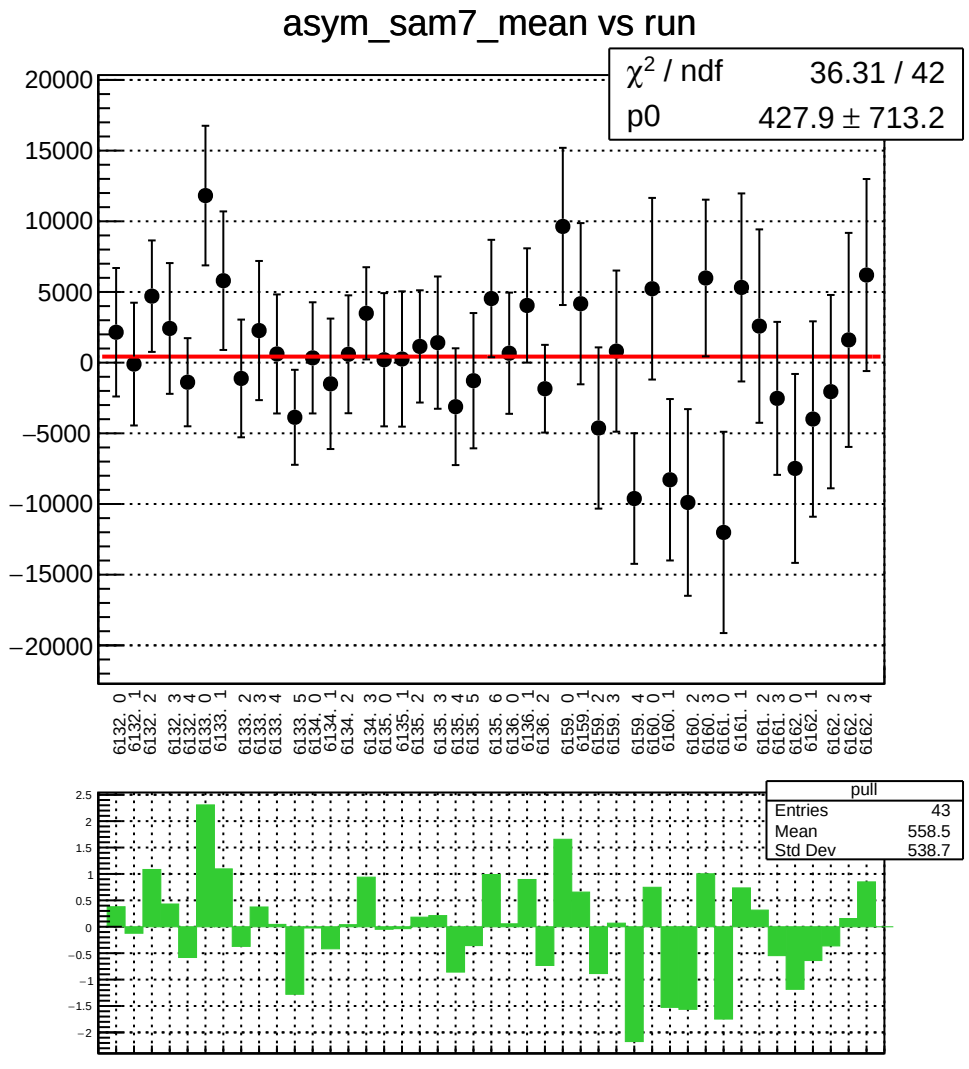

asym_sam5_mean vs run
χ² / ndf 40.37 / 42
p0 −1736 ± 1957
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 22.62
Std Dev 31.26
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.02539
Std Dev 0.9687
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

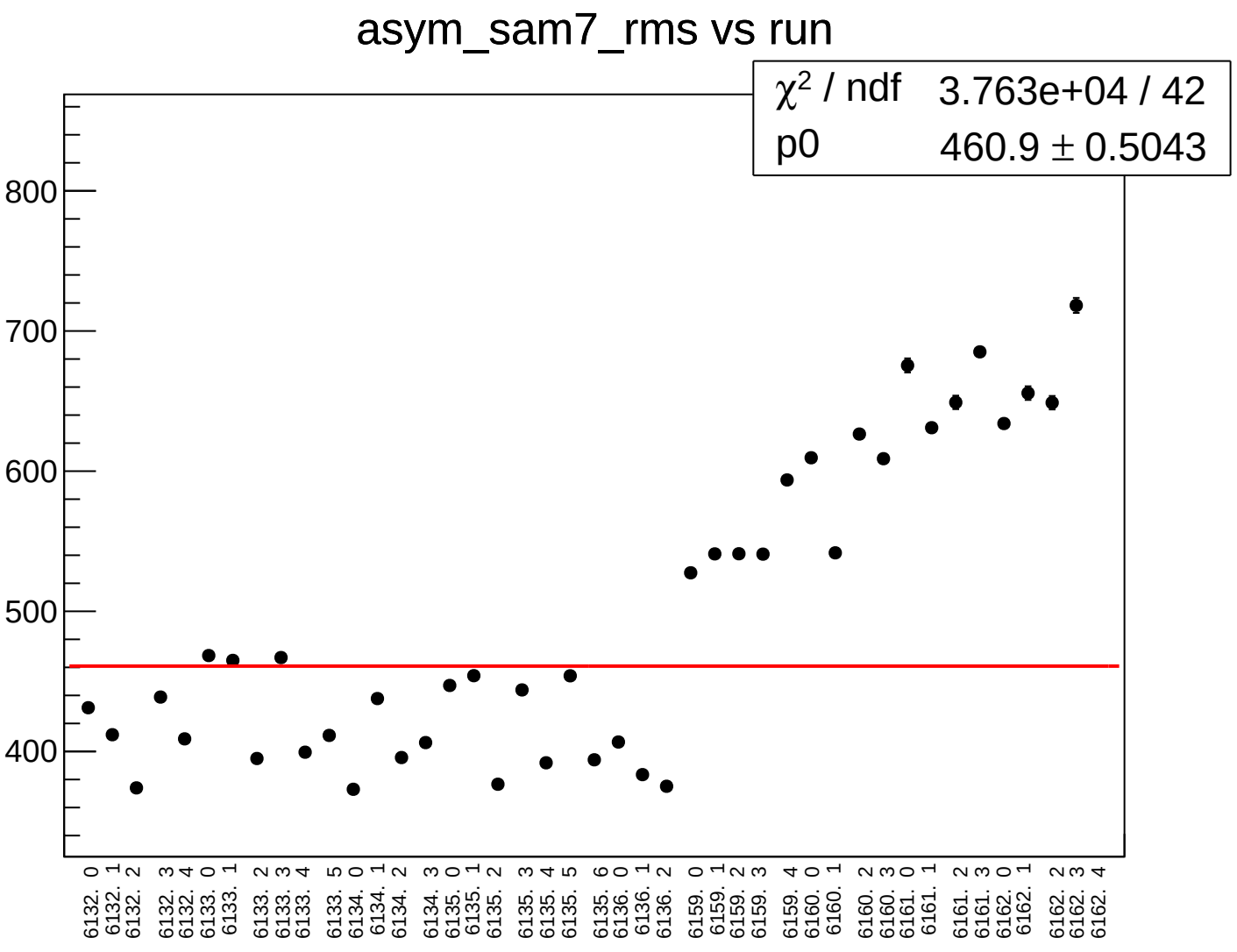

asym_sam5_rms vs run
χ² / ndf 1948 / 42
p0 1291 ± 1.384
1400
1350
1300
1250
1200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

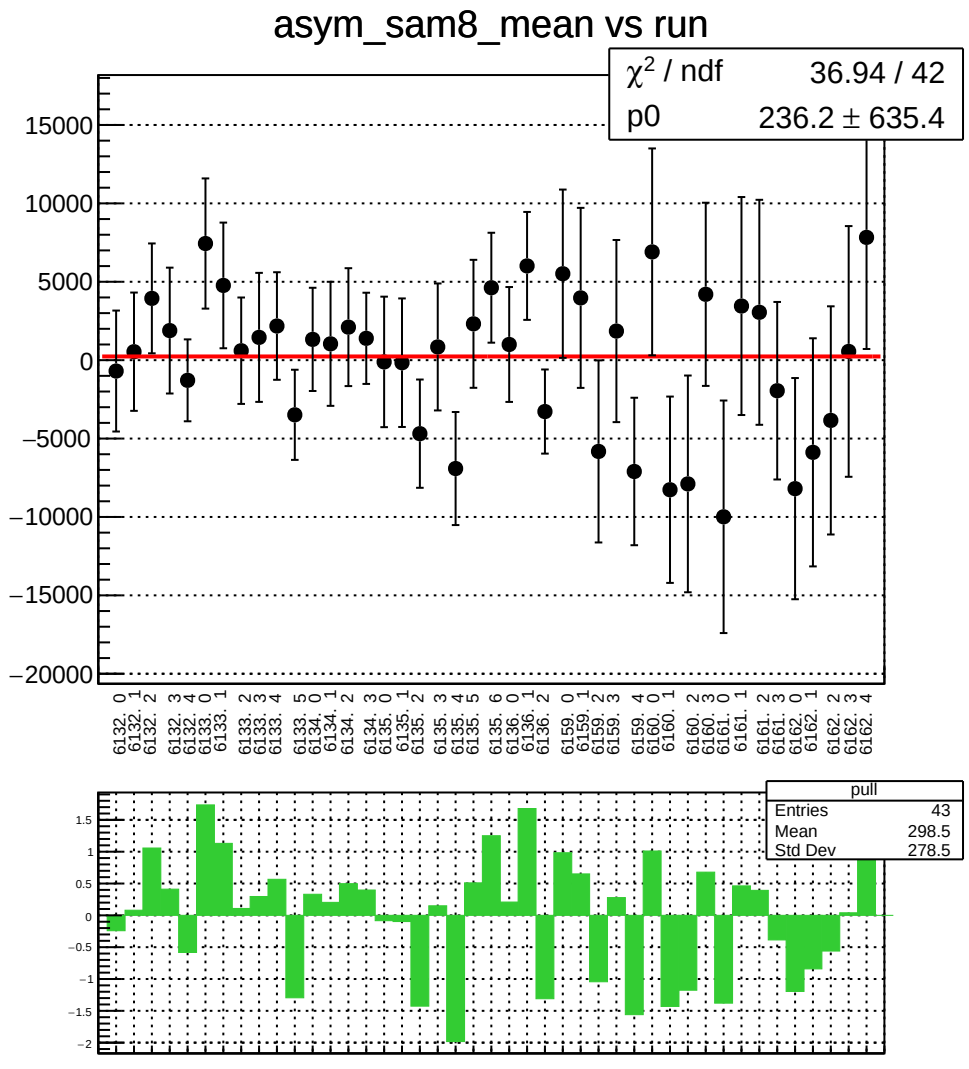

asym_sam6_mean vs run
χ² / ndf 42.64 / 42
p0 −901.2 ± 2079
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −102.2
Std Dev 119.2
2
1
0
−1
−2

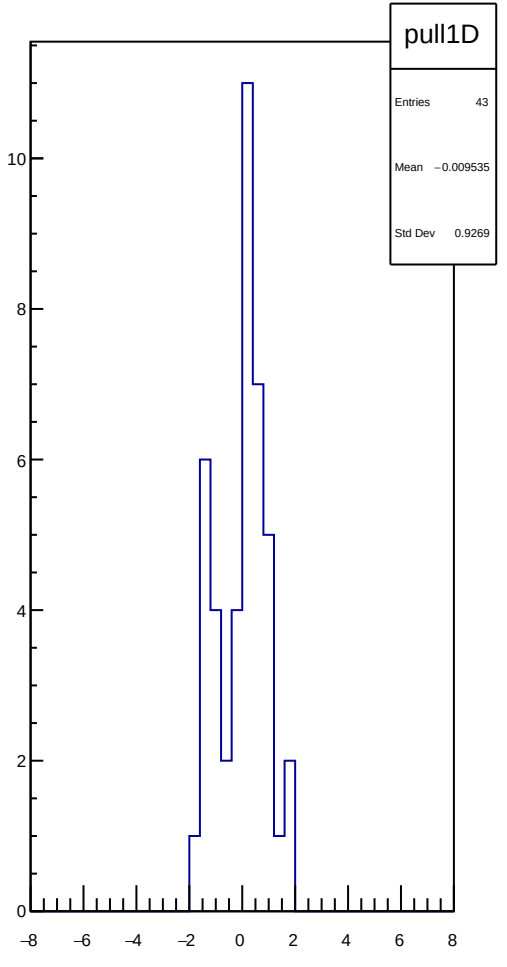

pull1D
Entries 43
Mean −0.02114
Std Dev 0.9956
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

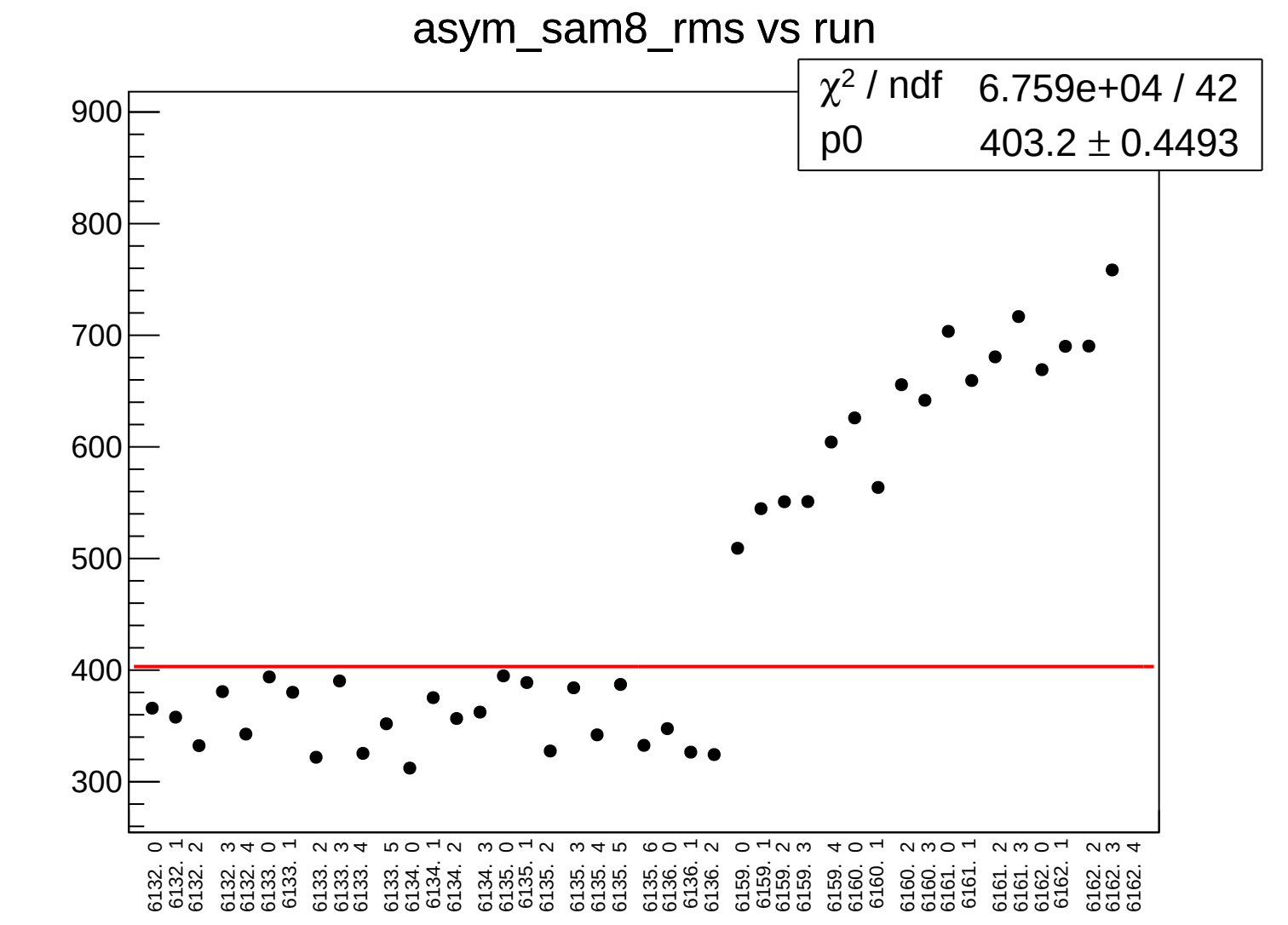

asym_sam6_rms vs run
χ² / ndf 6446 / 42
p0 1368 ± 1.47
1800
1700
1600
1500
1400
1300
1200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

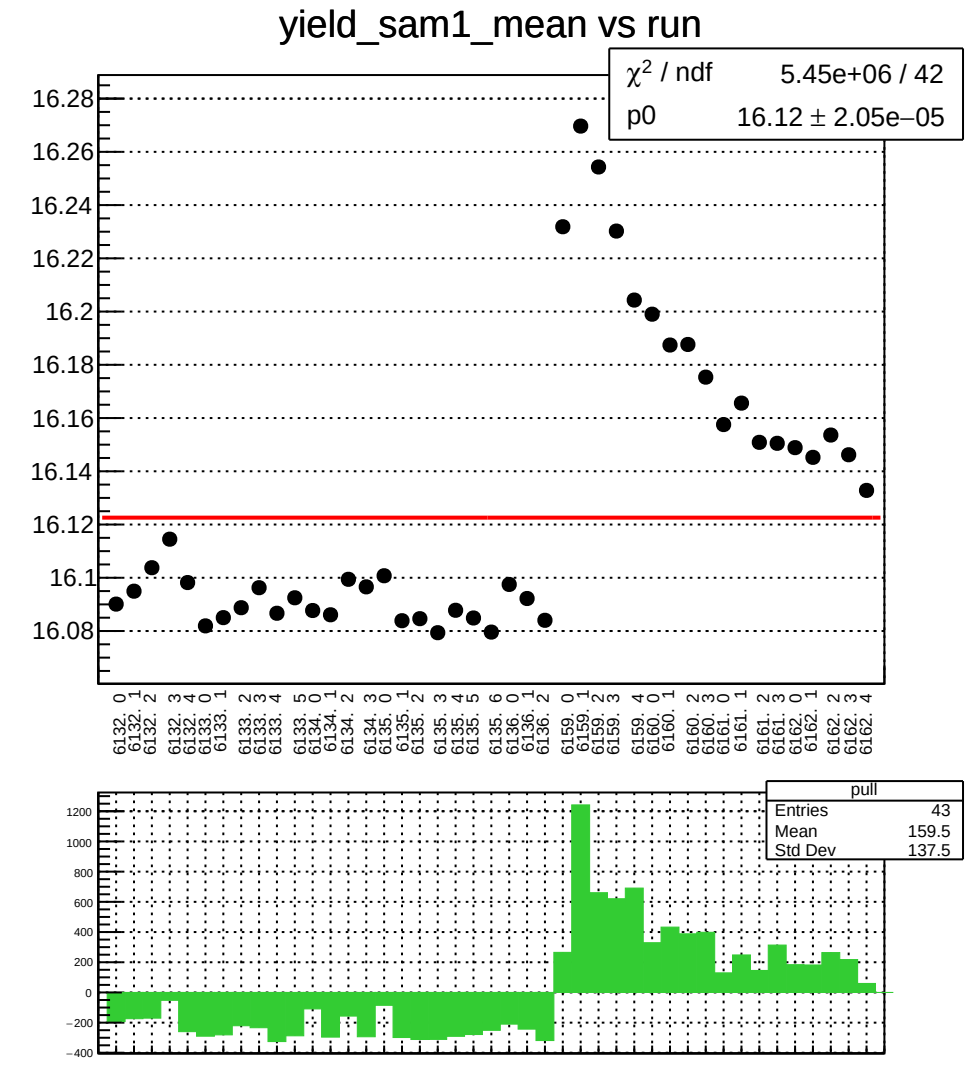

asym_sam7_mean vs run
χ² / ndf 36.31 / 42
p0 427.9 ± 713.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 558.5
Std Dev 538.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.005437
Std Dev 0.9189
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

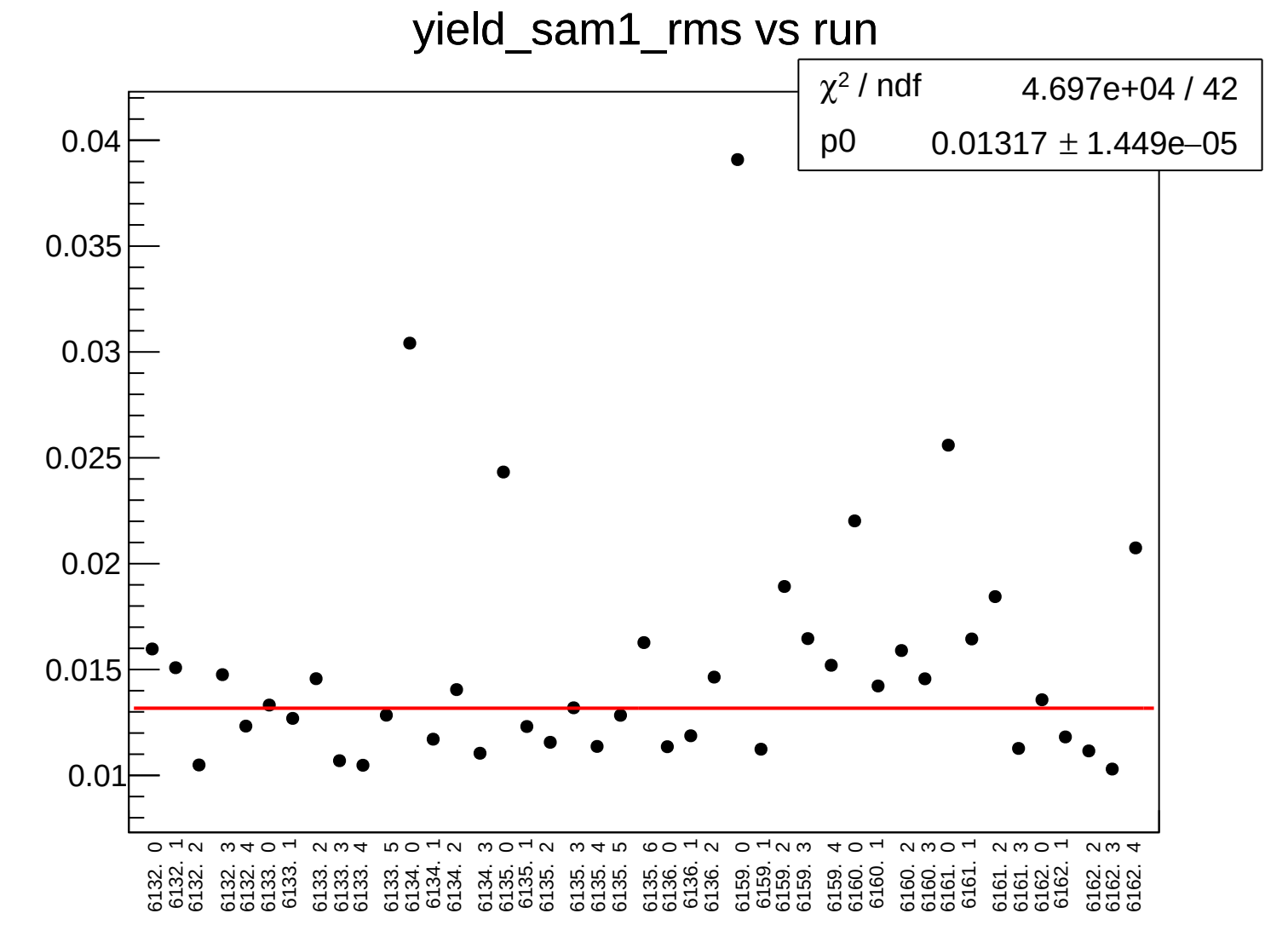

asym_sam7_rms vs run
χ² / ndf 3.763e+04 / 42
p0 460.9 ± 0.5043
800
700
600
500
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

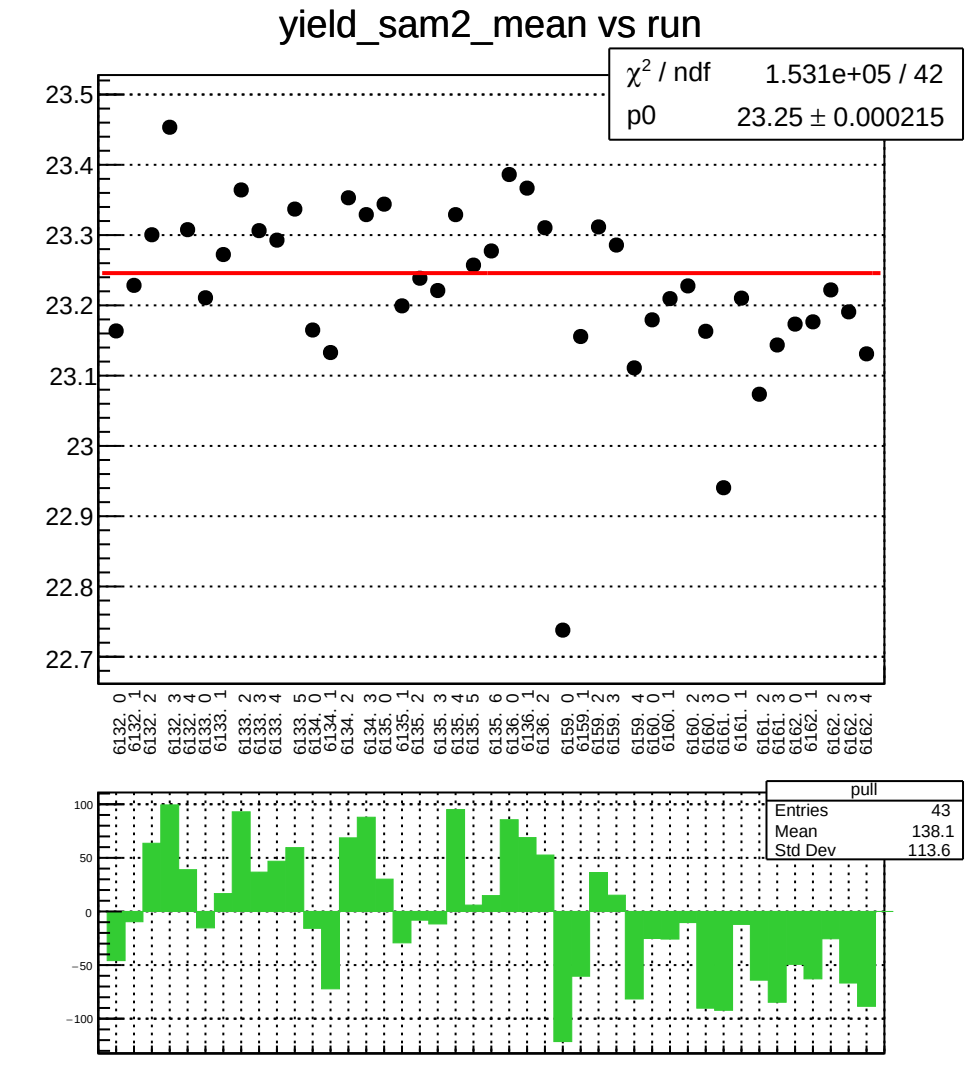

asym_sam8_mean vs run
χ² / ndf 36.94 / 42
p0 236.2 ± 635.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 298.5
Std Dev 278.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

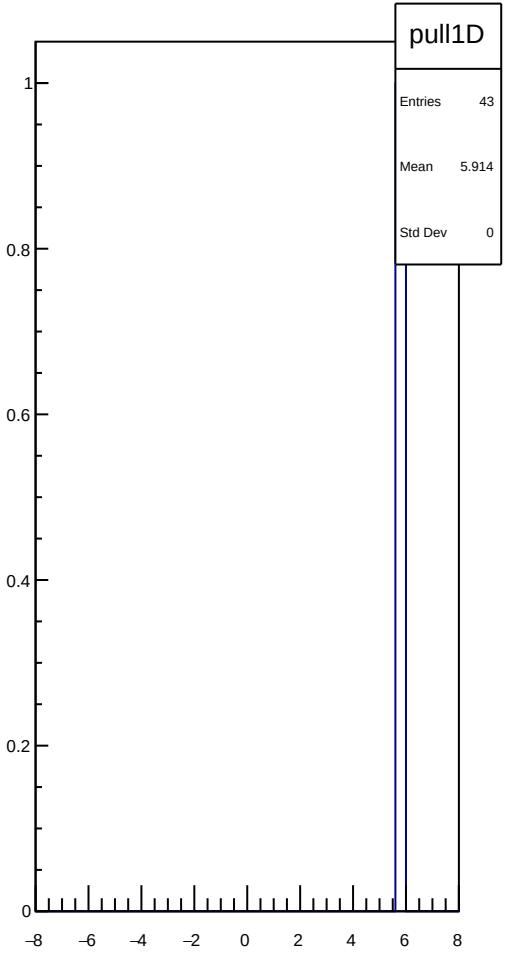

pull1D
Entries 43
Mean −0.009535
Std Dev 0.9269
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

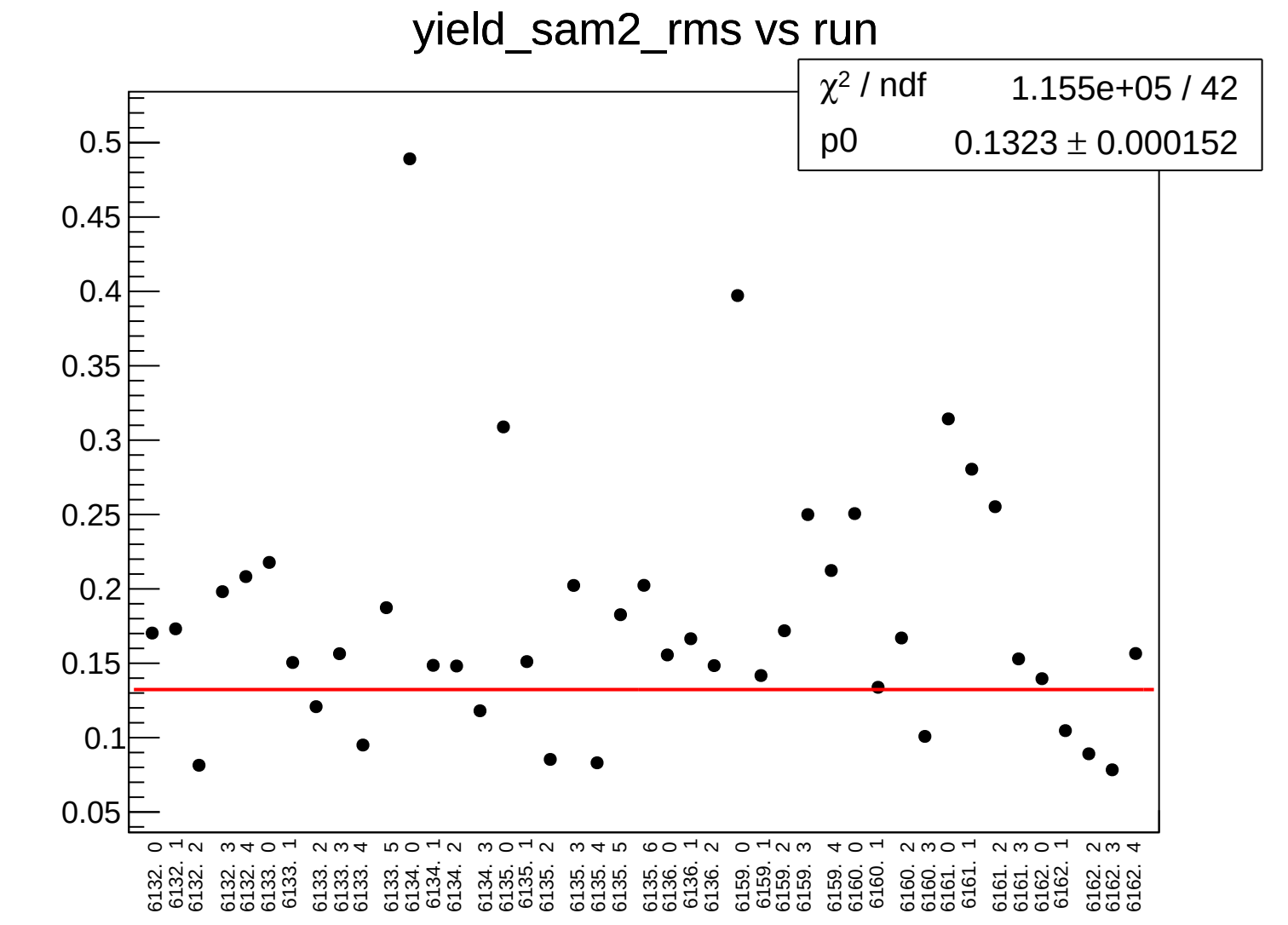

asym_sam8_rms vs run
χ² / ndf 6.759e+04 / 42
p0 403.2 ± 0.4493
900
800
700
600
500
400
300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

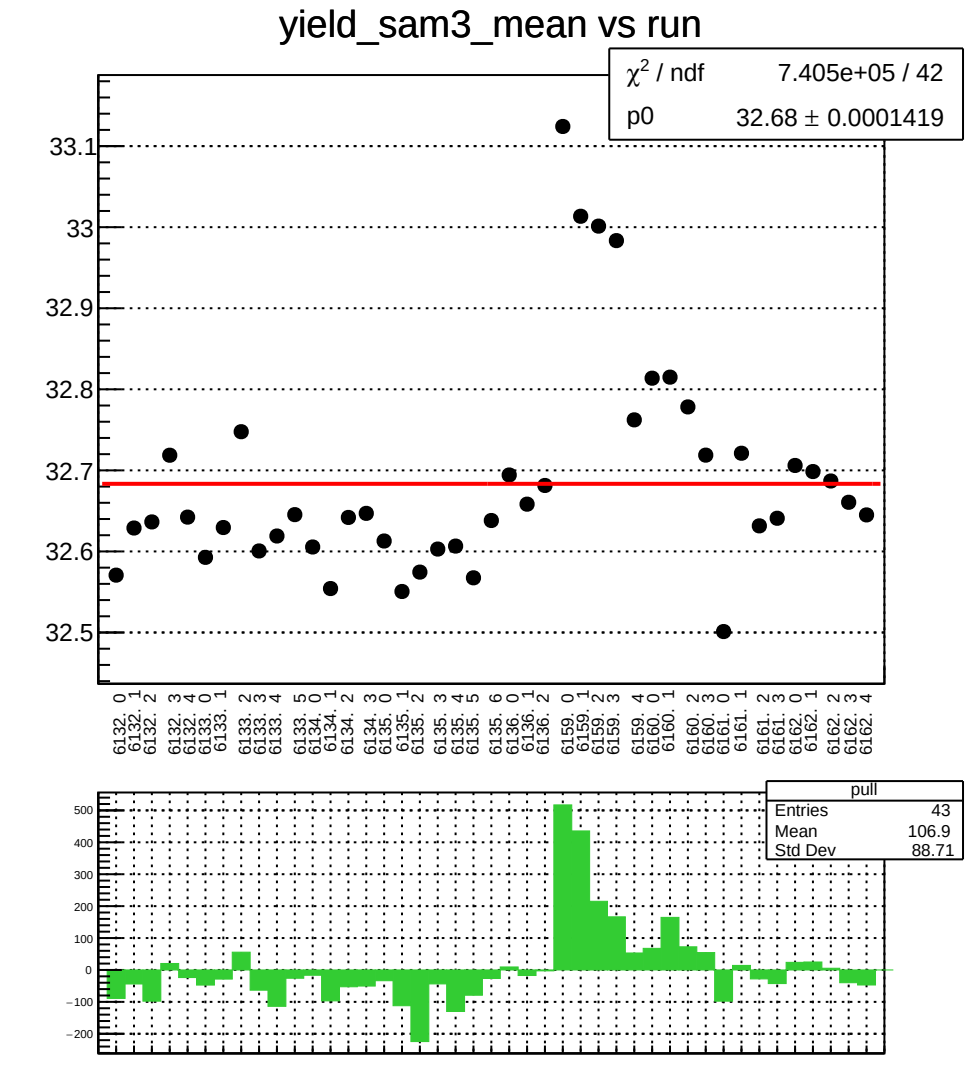

yield_sam1_mean vs run
χ² / ndf 5.45e+06 / 42
p0 16.12 ± 2.05e−05
16.28
16.26
16.24
16.22
16.2
16.18
16.16
16.14
16.12
16.1
16.08
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 159.5
Std Dev 137.5
1200
1000
800
600
400
200
0
−200
−400
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

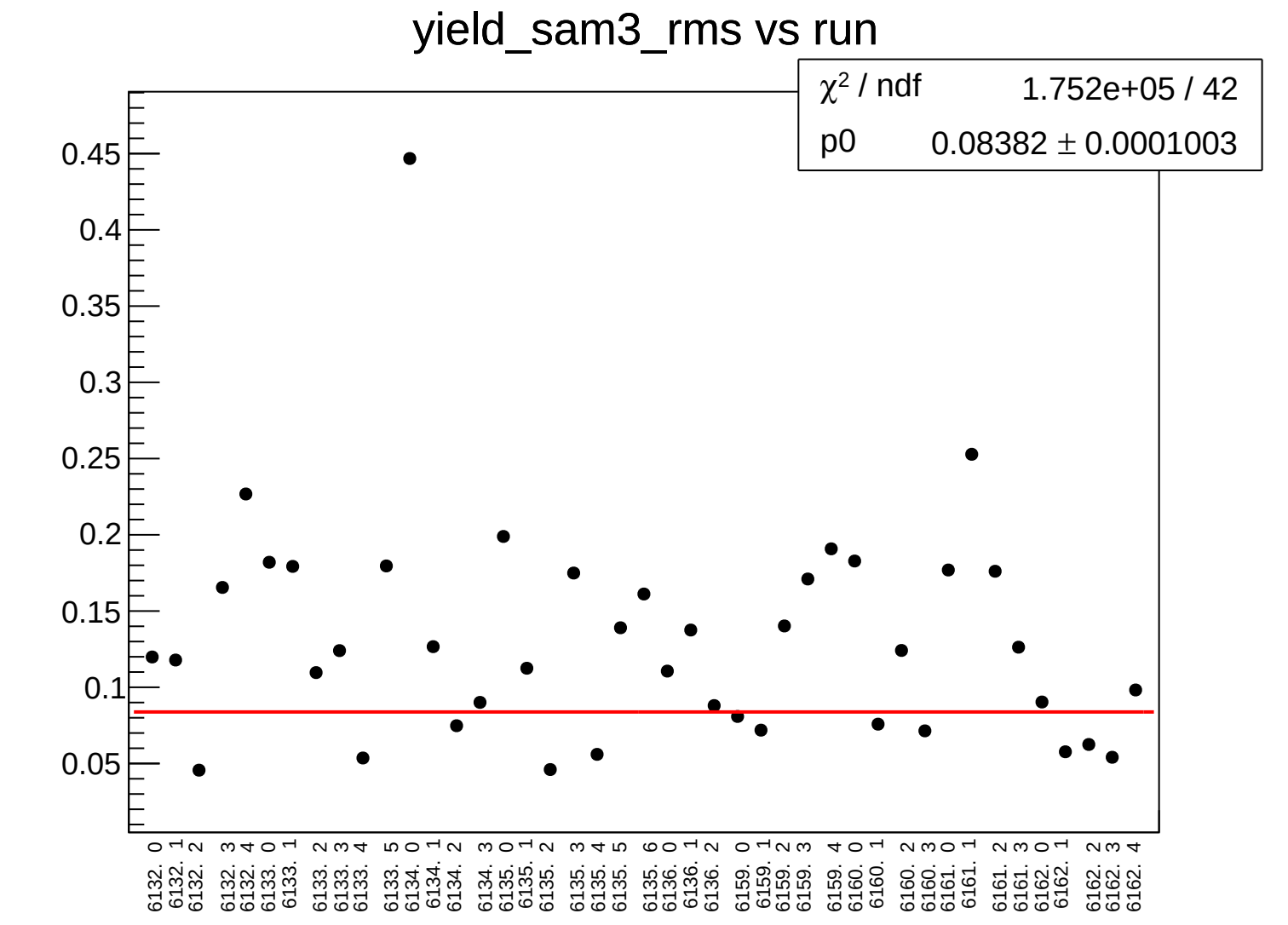

yield_sam1_rms vs run
χ² / ndf 4.697e+04 / 42
p0 0.01317 ± 1.449e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

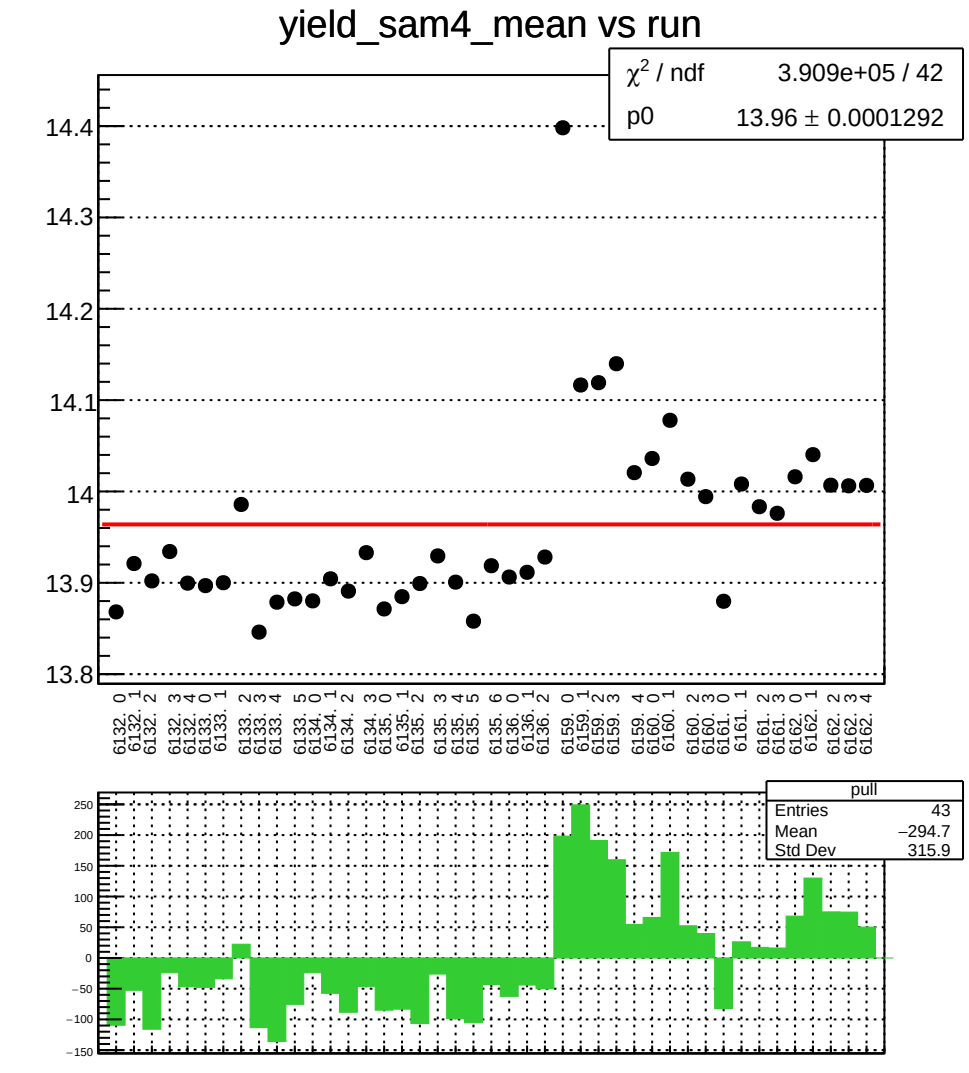

yield_sam2_mean vs run
χ² / ndf 1.531e+05 / 42
p0 23.25 ± 0.000215
23.5
23.4
23.3
23.2
23.1
23
22.9
22.8
22.7
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 138.1
Std Dev 113.6
100
50
0
−50
−100

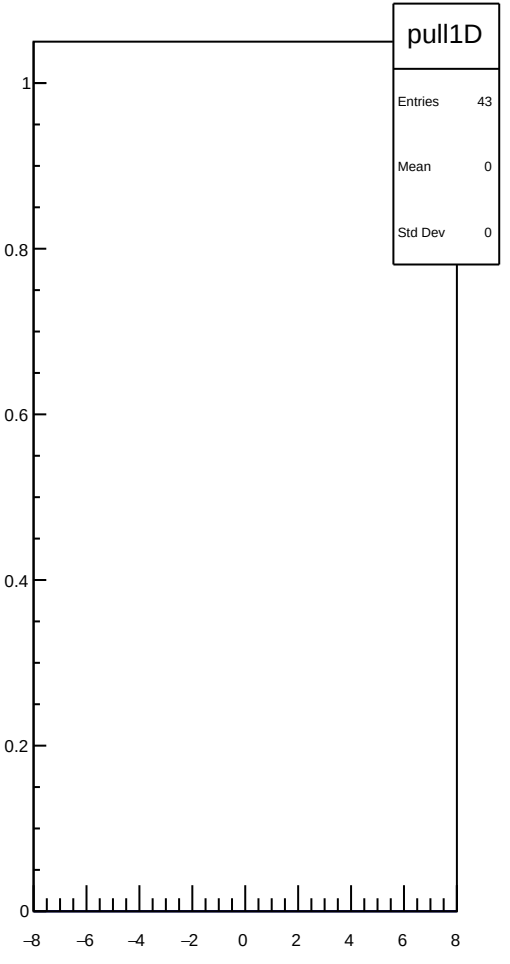

pull1D
Entries 43
Mean 5.914
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

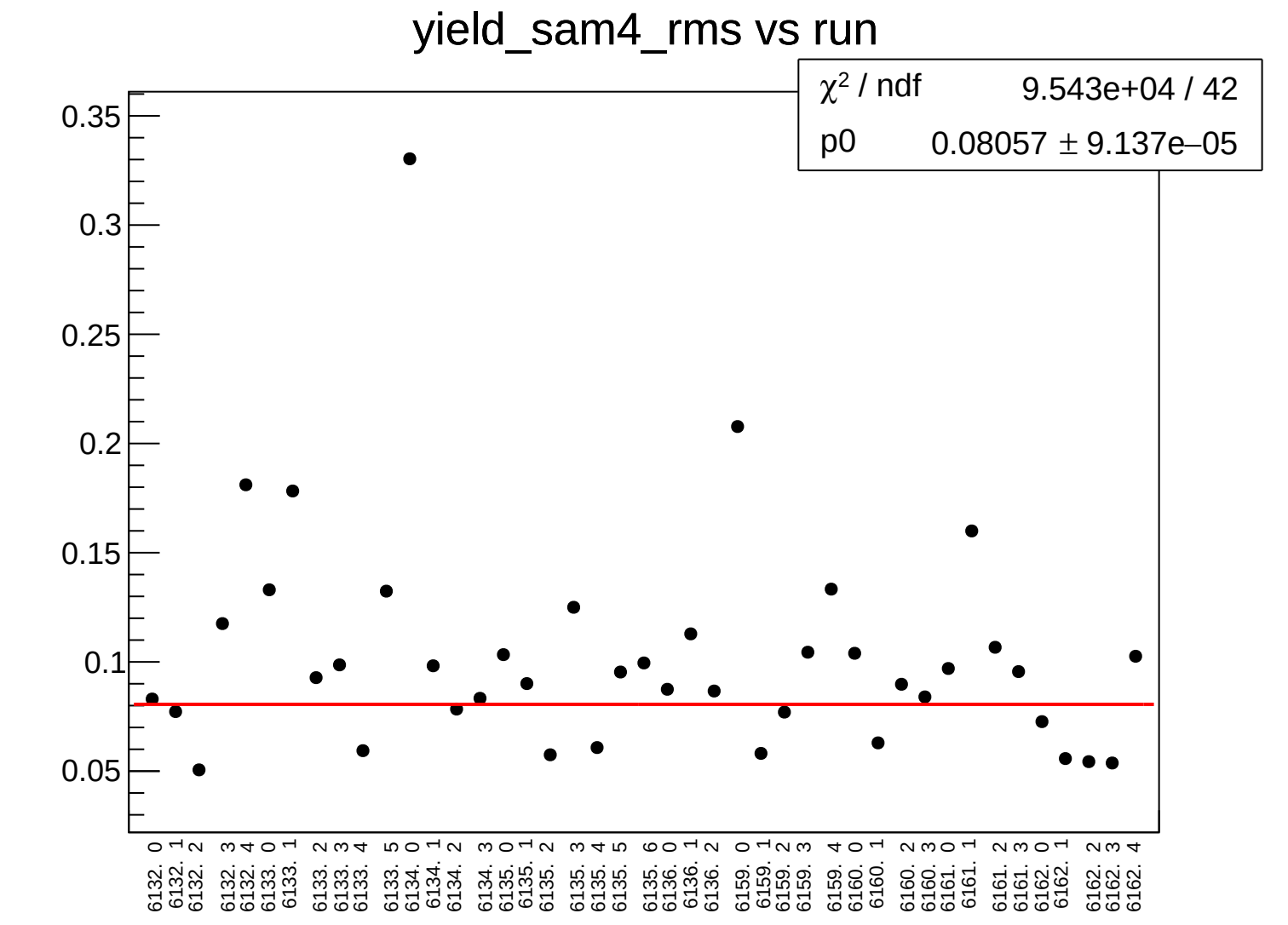

yield_sam2_rms vs run
χ² / ndf 1.155e+05 / 42
p0 0.1323 ± 0.000152
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

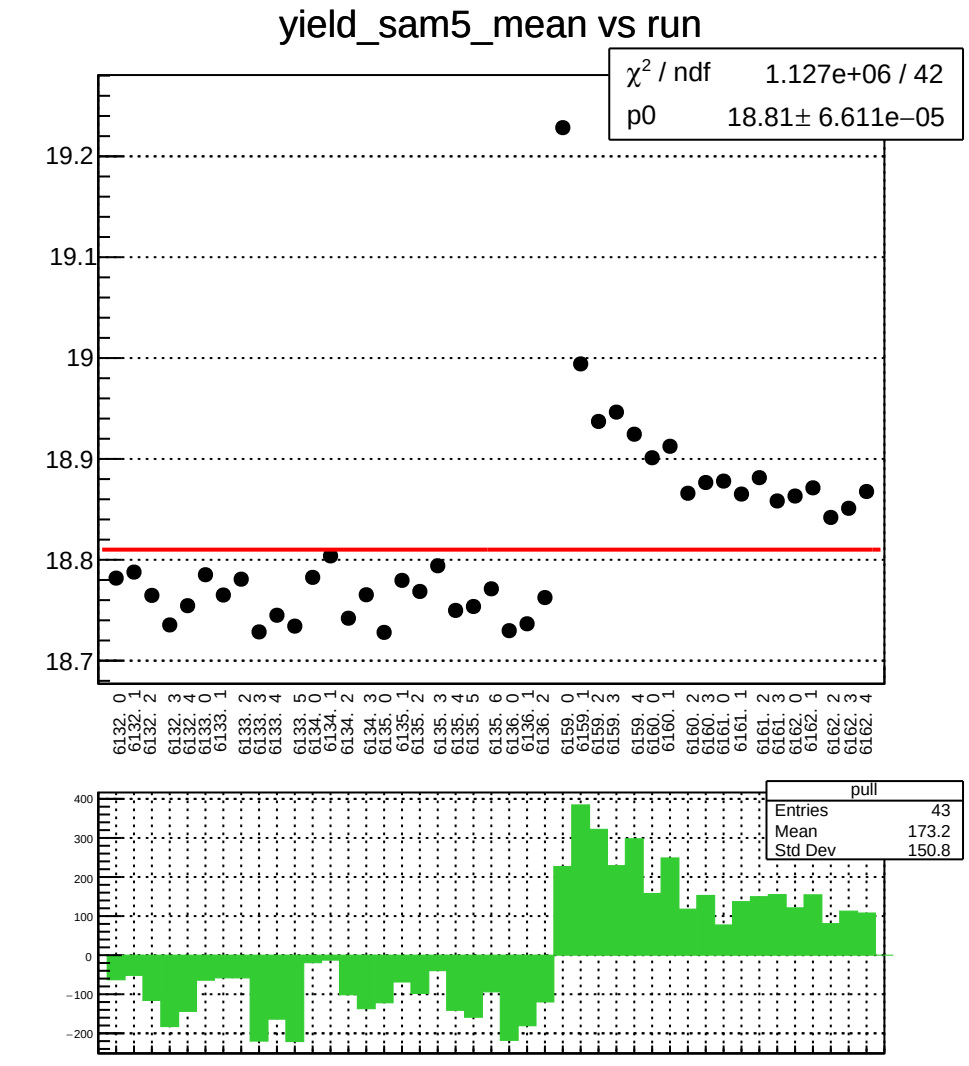

yield_sam3_mean vs run
χ² / ndf 7.405e+05 / 42
p0 32.68 ± 0.0001419
33.1
33
32.9
32.8
32.7
32.6
32.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 106.9
Std Dev 88.71
500
400
300
200
100
0
−100
−200
pull1D
Entries 43
Mean 1.249
Std Dev 4.042
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

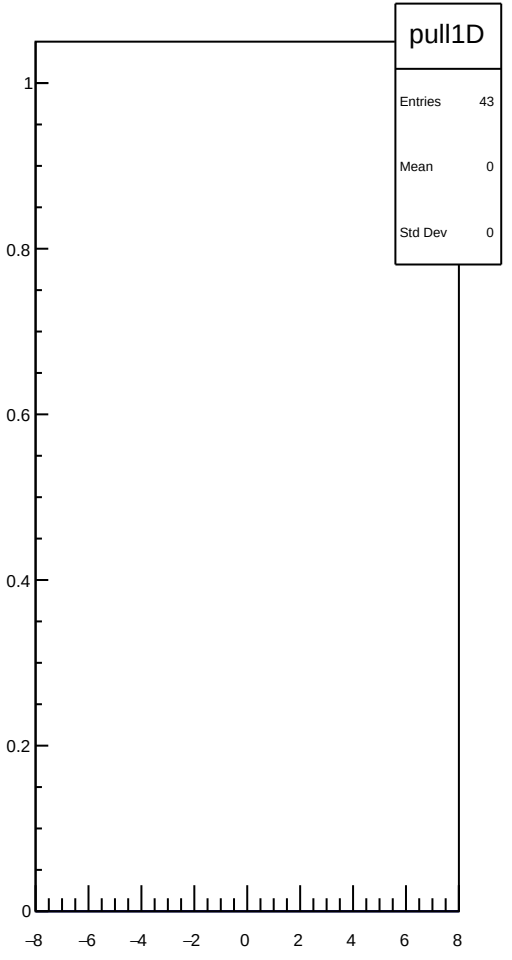

yield_sam3_rms vs run
χ² / ndf 1.752e+05 / 42
p0 0.08382 ± 0.0001003
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

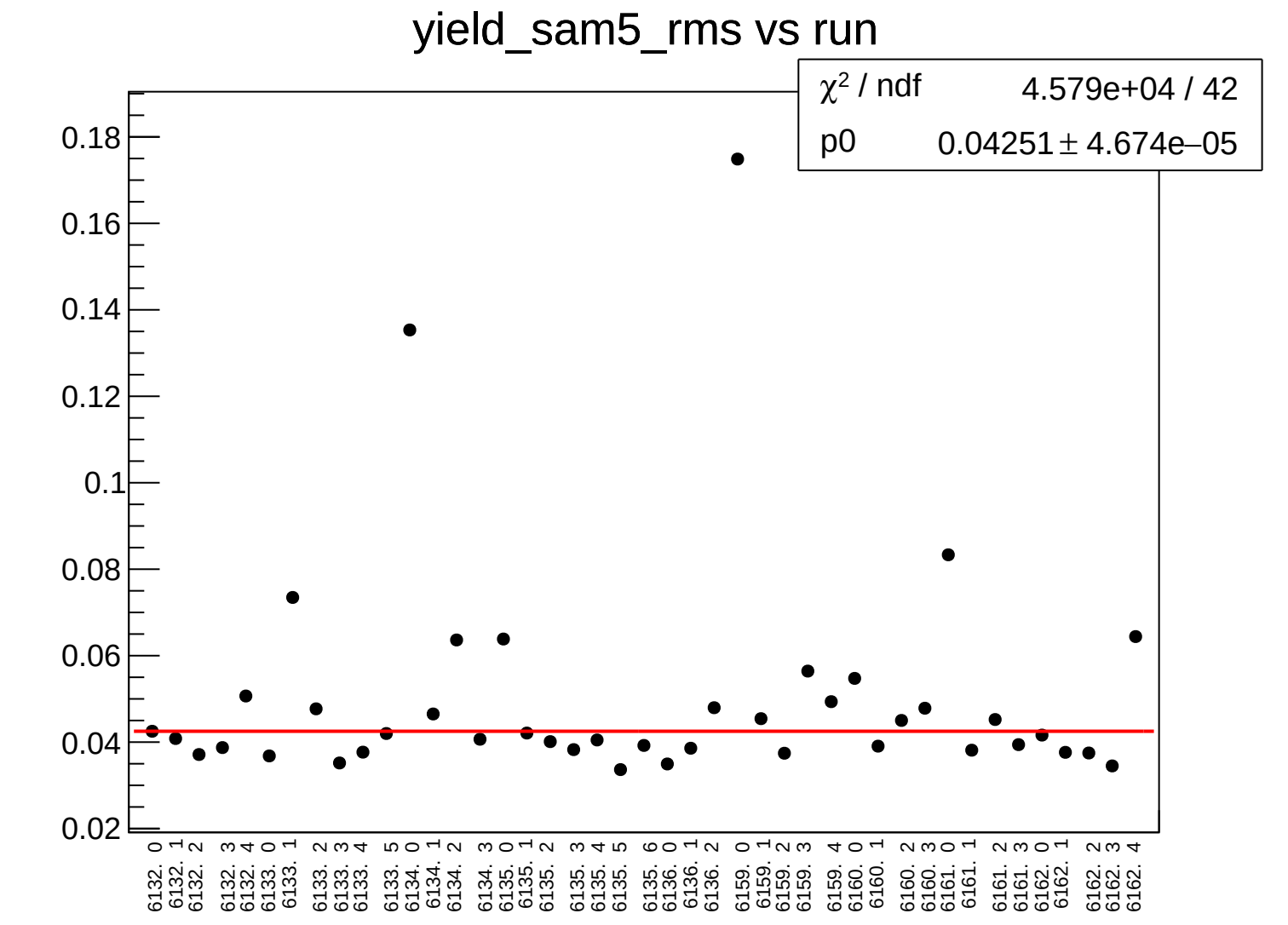

yield_sam4_mean vs run
χ² / ndf 3.909e+05 / 42
p0 13.96 ± 0.0001292
14.4
14.3
14.2
14.1
14
13.9
13.8
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −294.7
Std Dev 315.9
250
200
150
100
50
0
−50
−100
−150

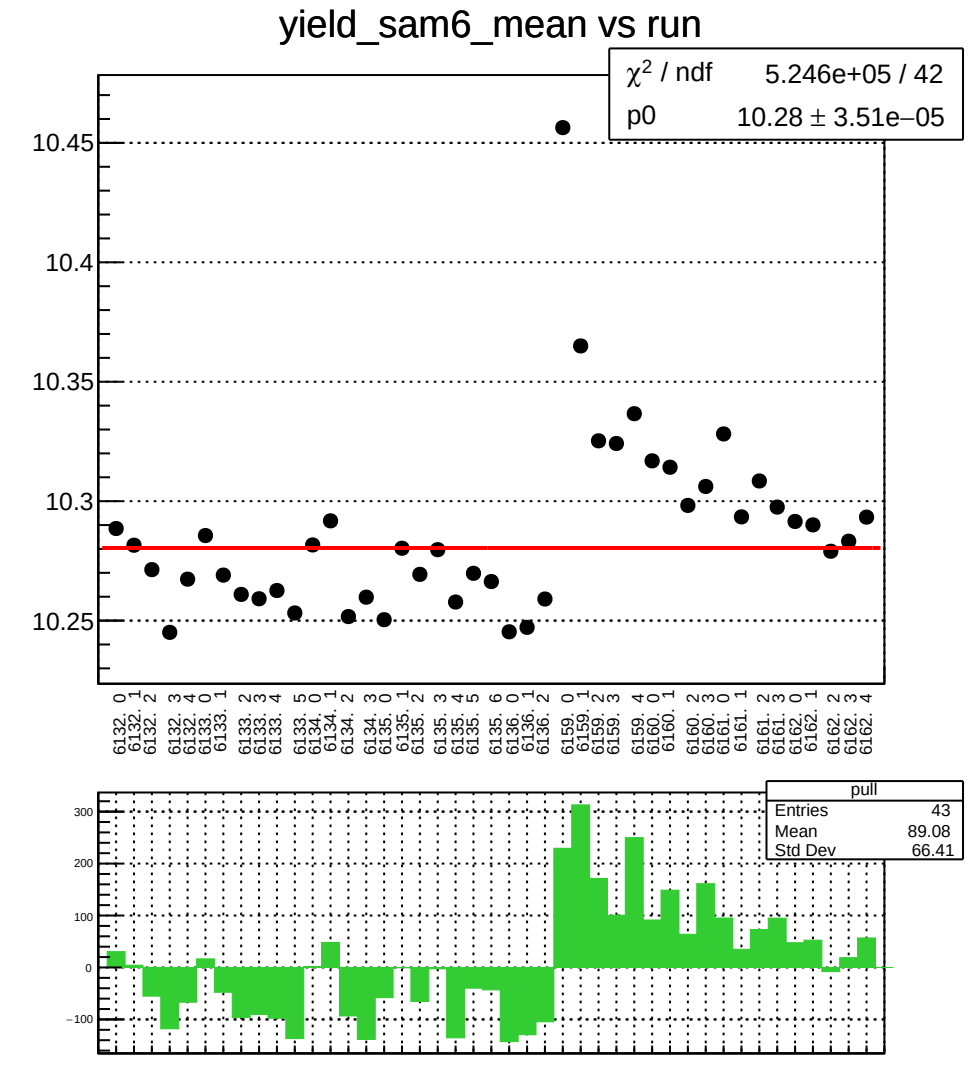

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

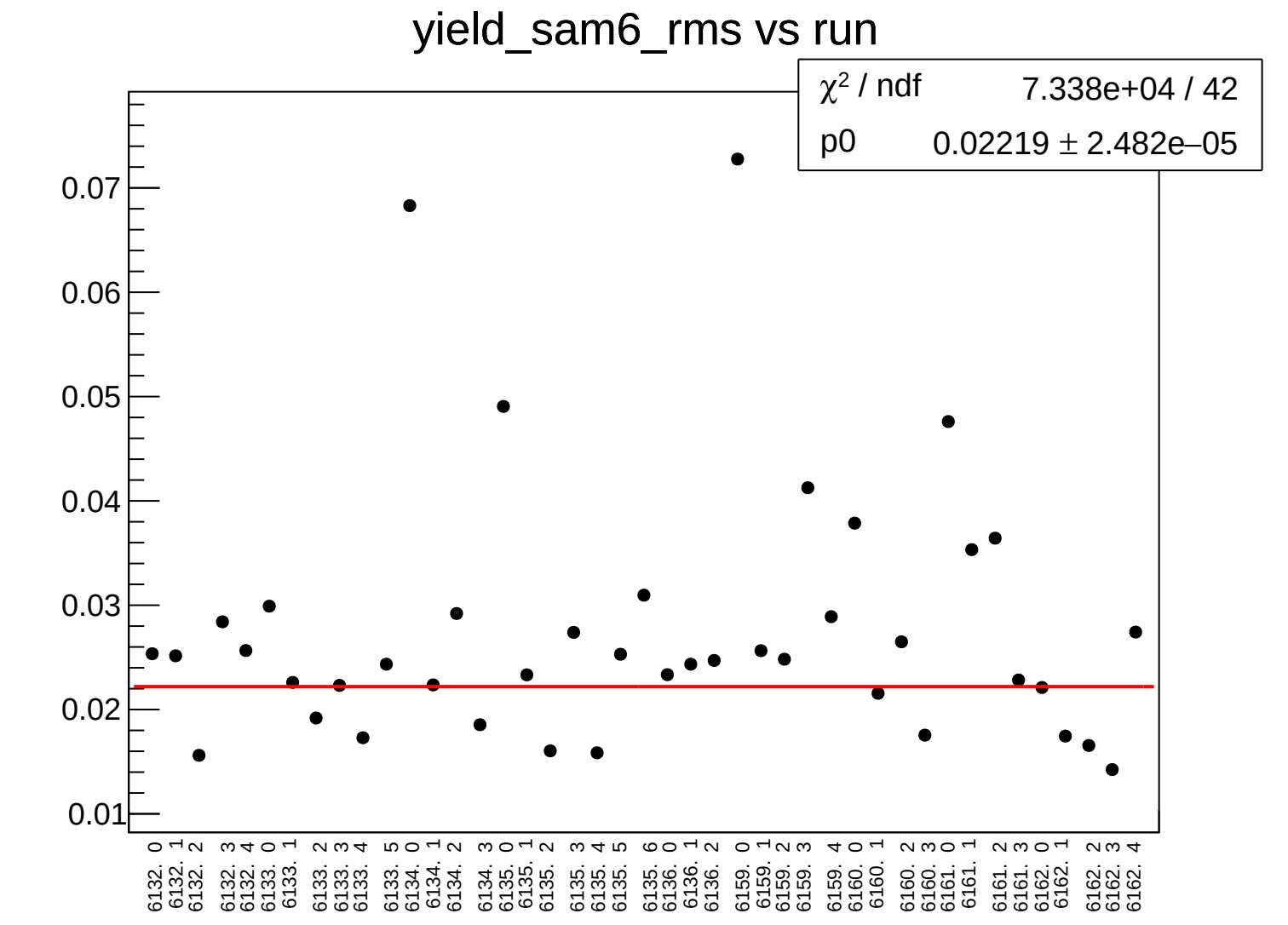

yield_sam4_rms vs run
χ² / ndf 9.543e+04 / 42
p0 0.08057 ± 9.137e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

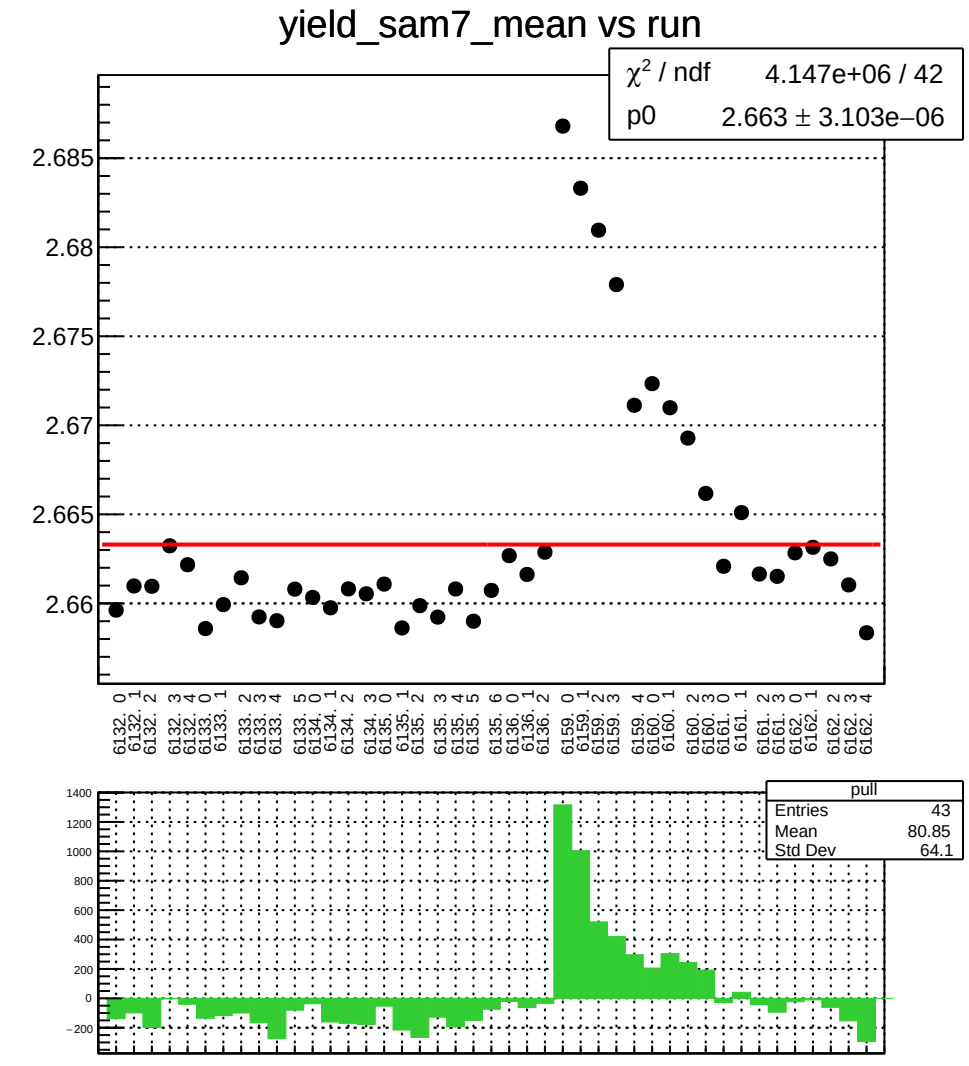

yield_sam5_mean vs run
χ² / ndf 1.127e+06 / 42
p0 18.81± 6.611e−05
19.2
19.1
19
18.9
18.8
18.7
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 173.2
Std Dev 150.8
400
300
200
100
0
−100
−200

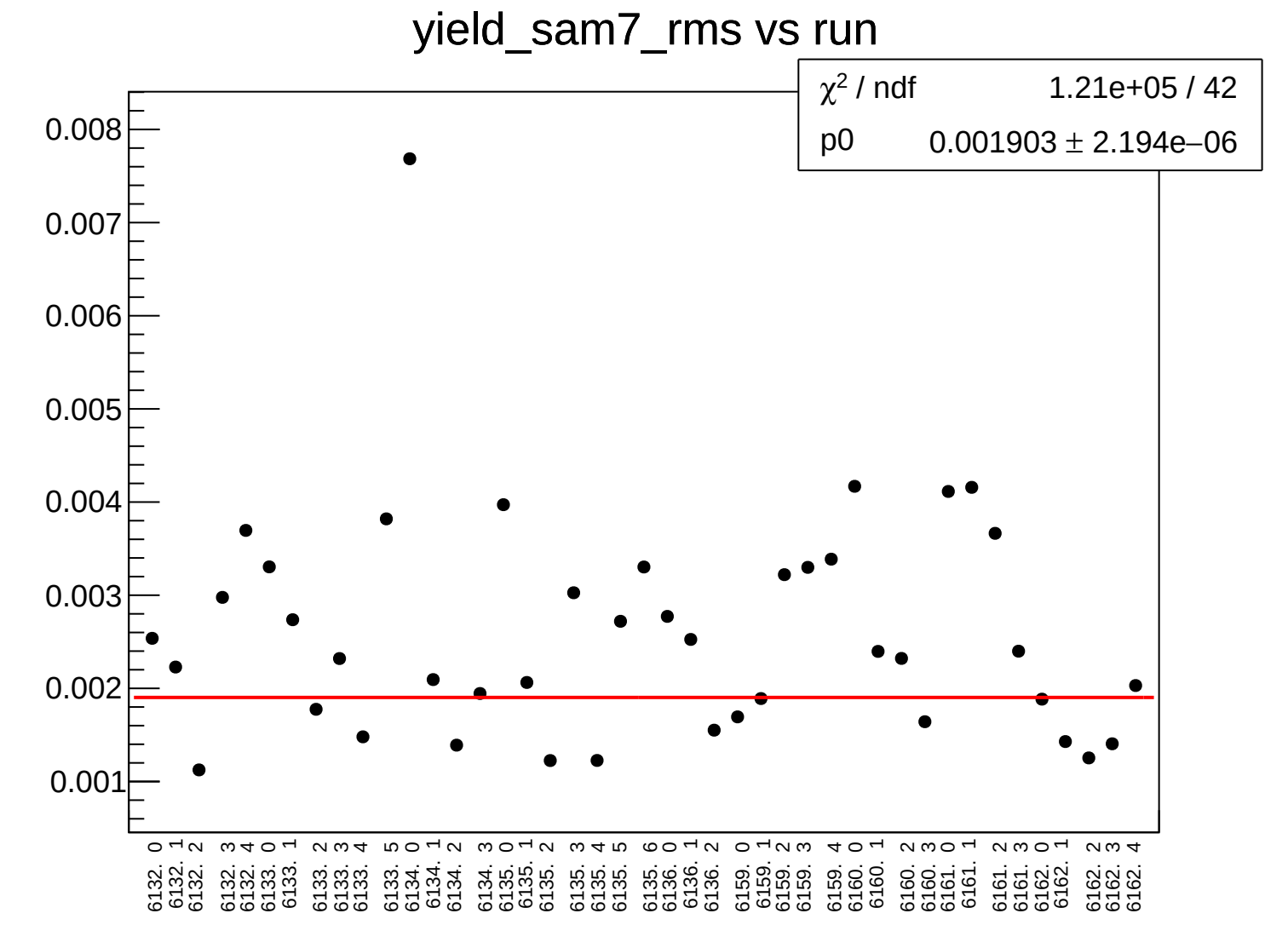

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

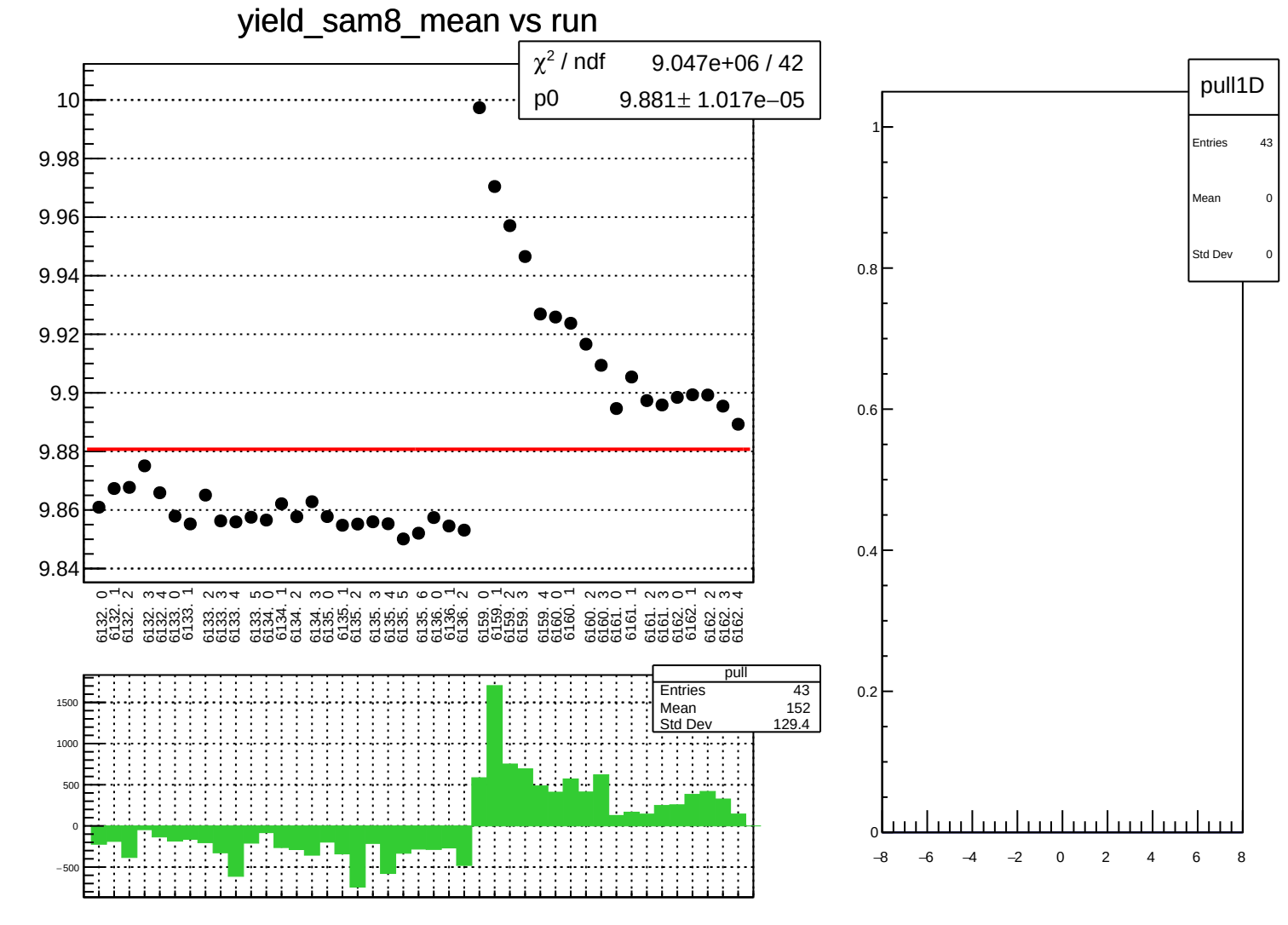

yield_sam5_rms vs run
χ² / ndf 4.579e+04 / 42
p0 0.04251 ± 4.674e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

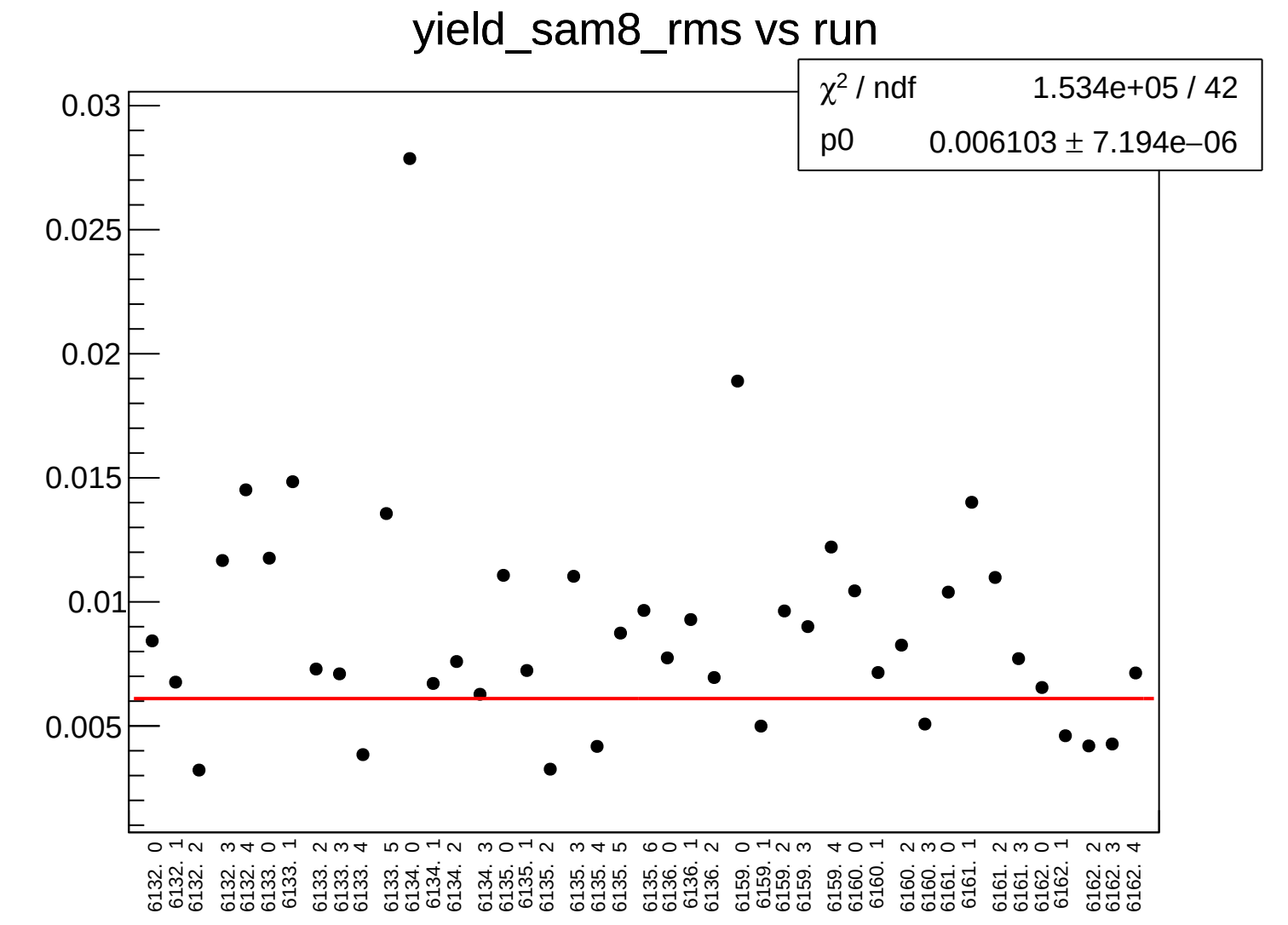

yield_sam6_mean vs run
χ² / ndf 5.246e+05 / 42
p0 10.28 ± 3.51e−05
10.45
10.4
10.35
10.3
10.25
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 89.08
Std Dev 66.41
300
200
100
0
−100
pull1D
Entries 43
Mean −0.9491
Std Dev 4.148
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

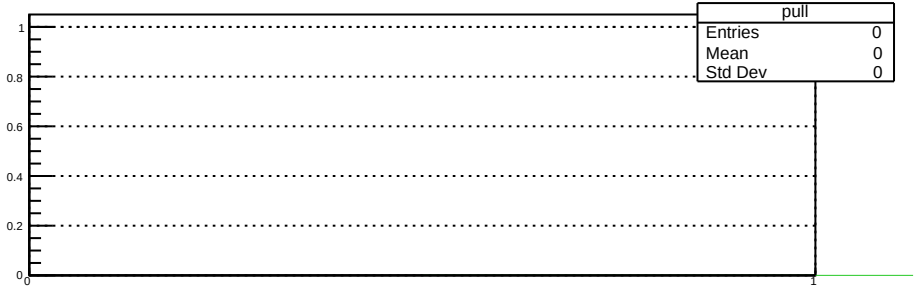

yield_sam6_rms vs run
χ² / ndf 7.338e+04 / 42
p0 0.02219 ± 2.482e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

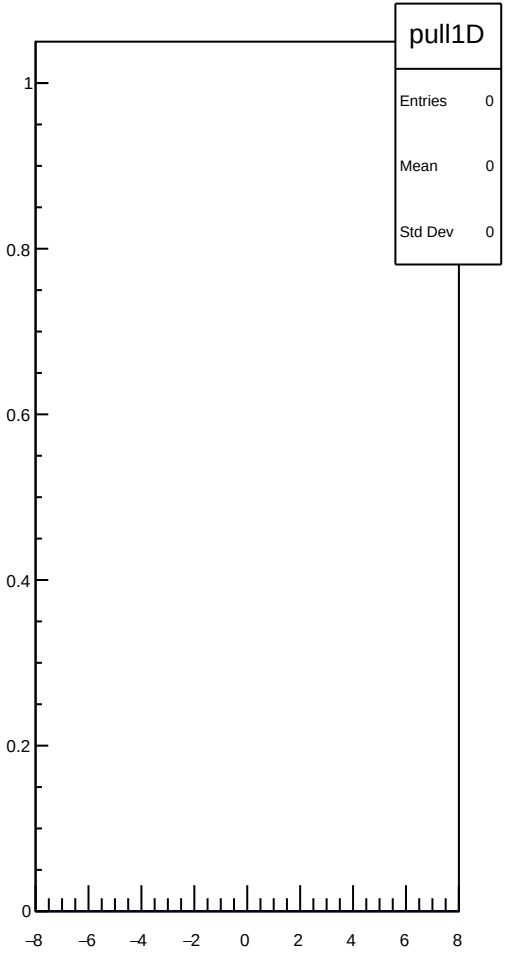

yield_sam7_mean vs run
χ² / ndf 4.147e+06 / 42
p0 2.663 ± 3.103e−06
2.685
2.68
2.675
2.67
2.665
2.66
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 80.85
Std Dev 64.1
1400
1200
1000
800
600
400
200
0
−200
pull1D
Entries 43
Mean −2.279
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

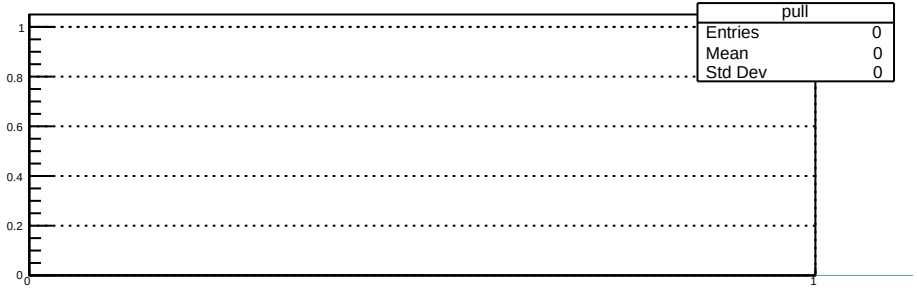

yield_sam7_rms vs run
χ² / ndf 1.21e+05 / 42
p0 0.001903 ± 2.194e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

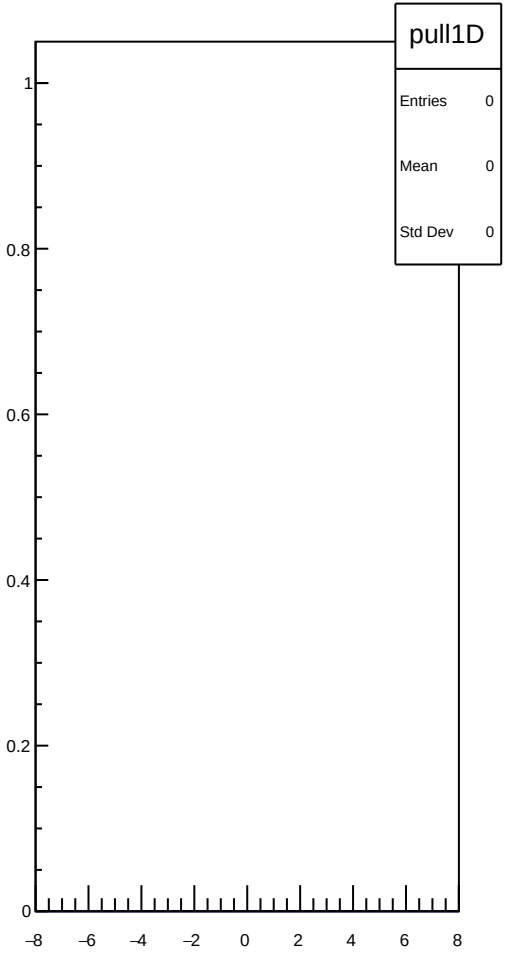

yield_sam8_mean vs run
χ² / ndf 9.047e+06 / 42
p0 9.881± 1.017e−05
10
9.98
9.96
9.94
9.92
9.9
9.88
9.86
9.84
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 152
Std Dev 129.4
1500
1000
500
0
−500
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

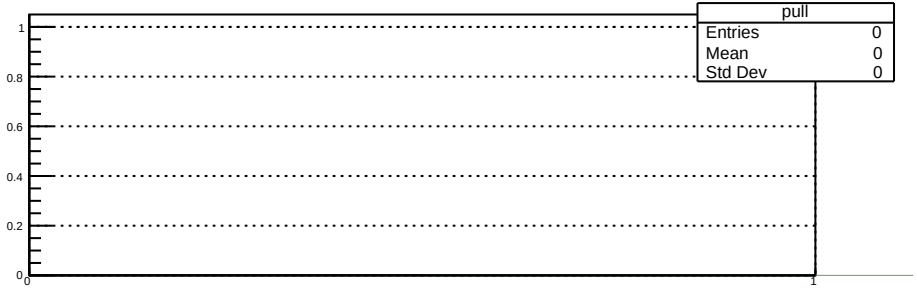

yield_sam8_rms vs run
χ² / ndf 1.534e+05 / 42
p0 0.006103 ± 7.194e−06
0.03
0.025
0.02
0.015
0.01
0.005
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

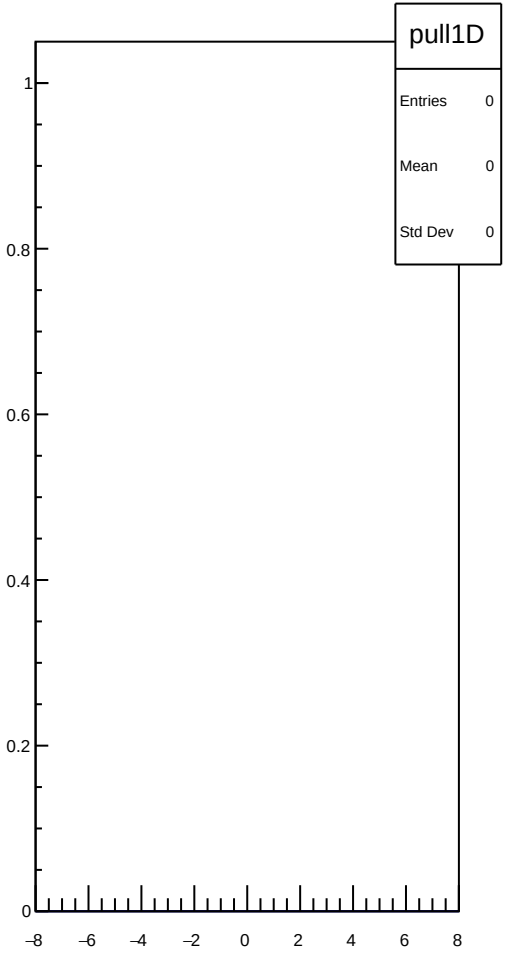

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

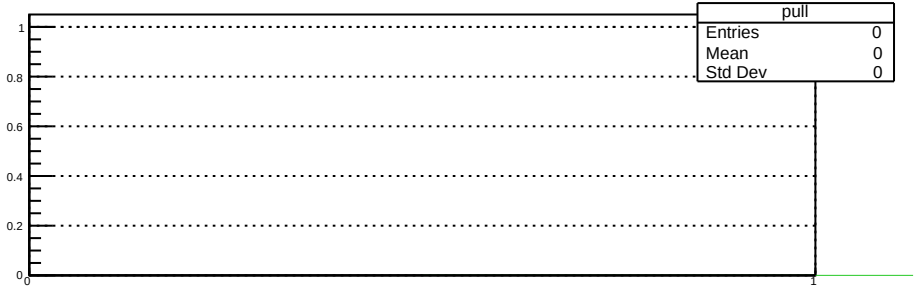

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

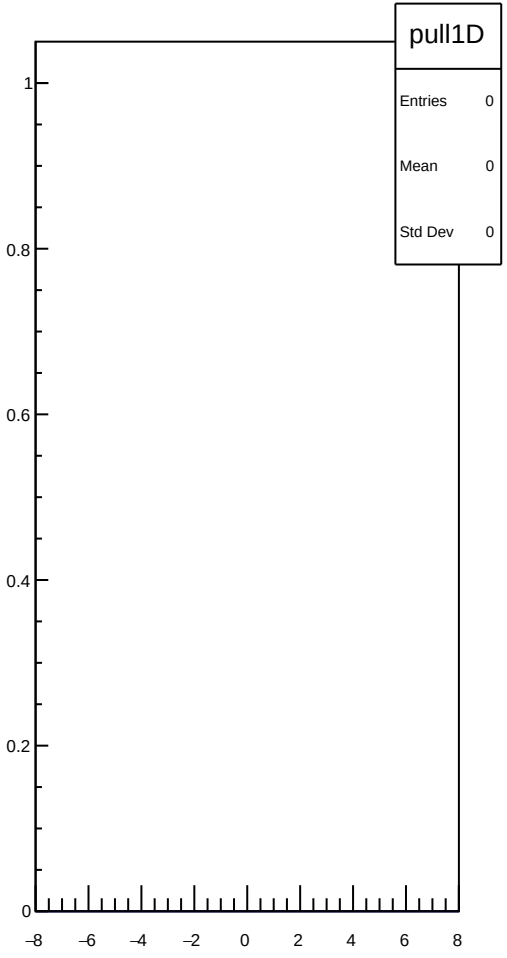

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

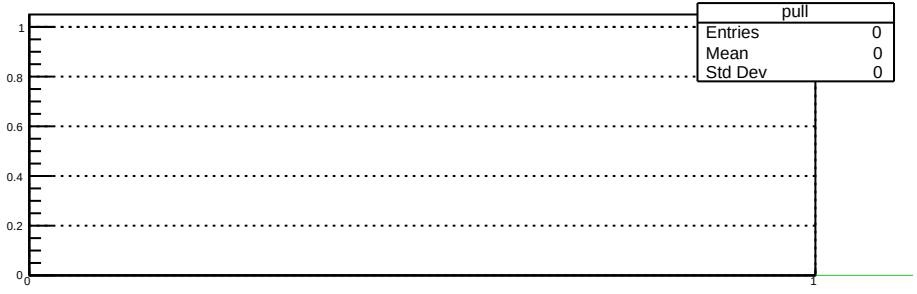

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

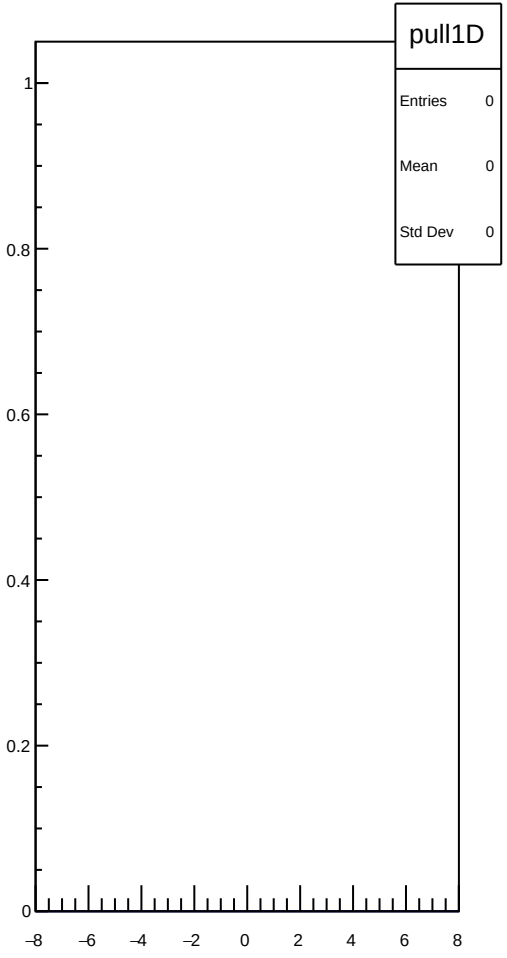

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

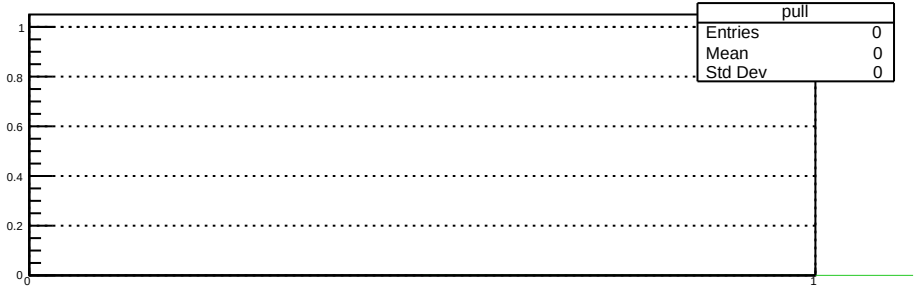

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

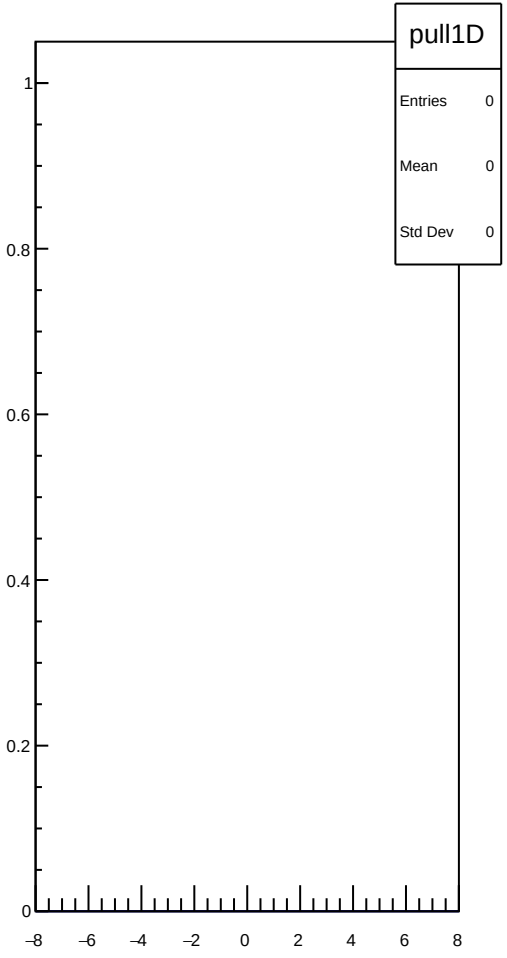

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

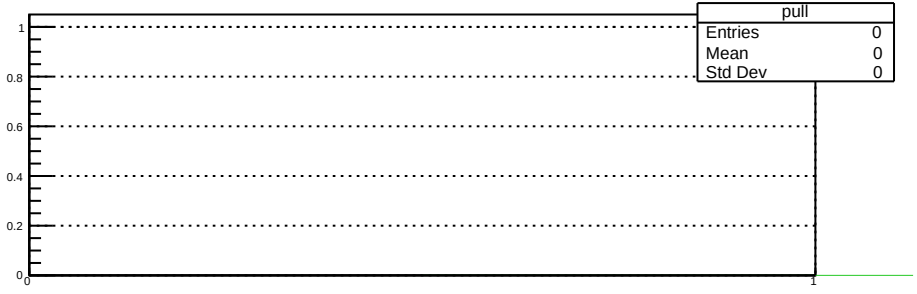

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

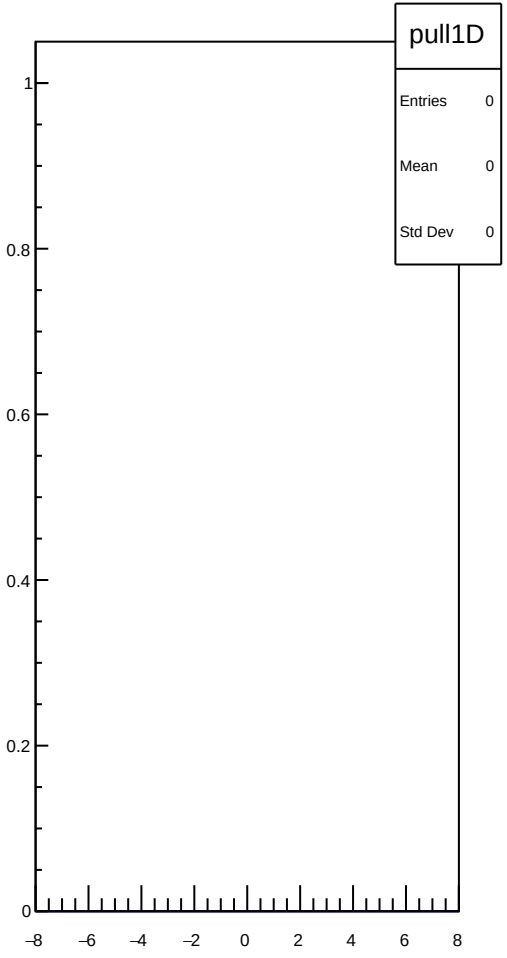

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

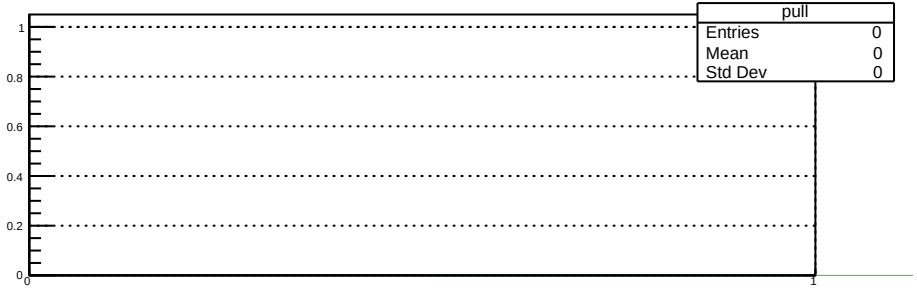

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

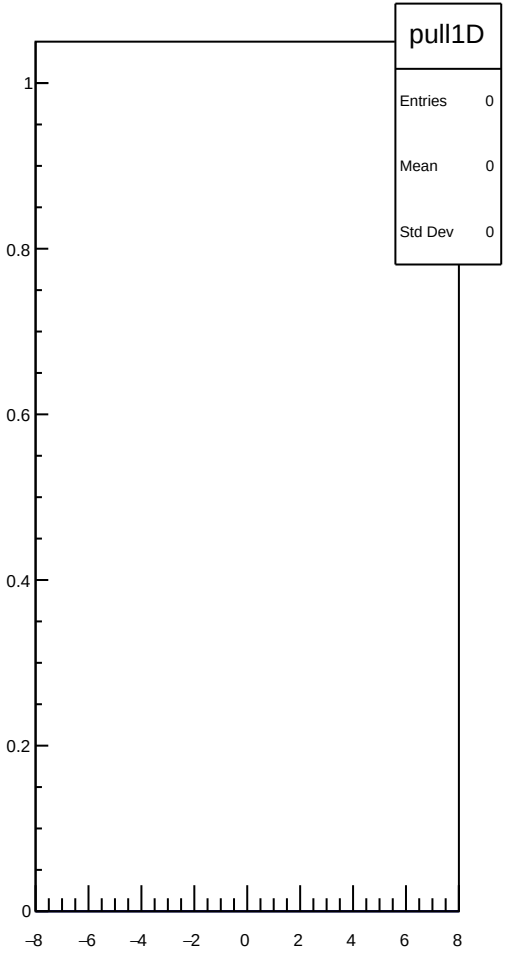

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

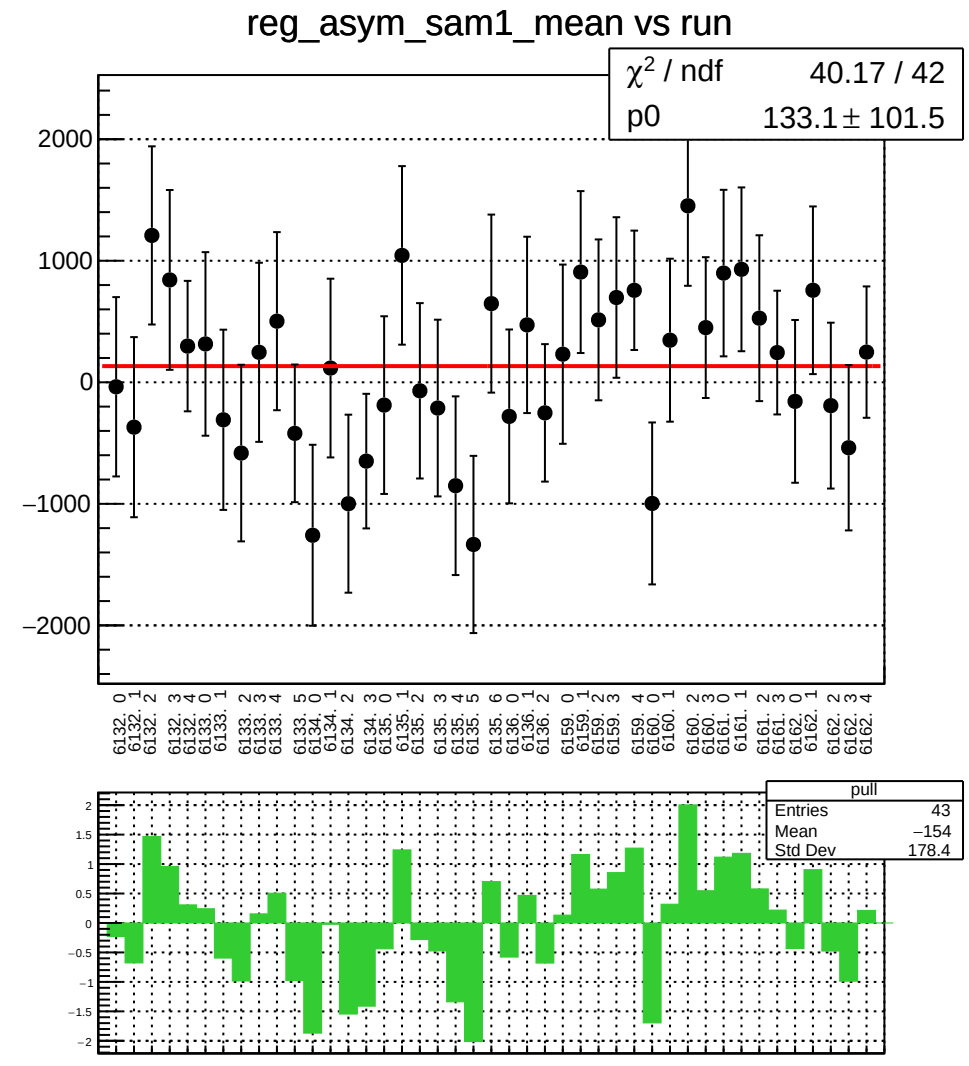

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

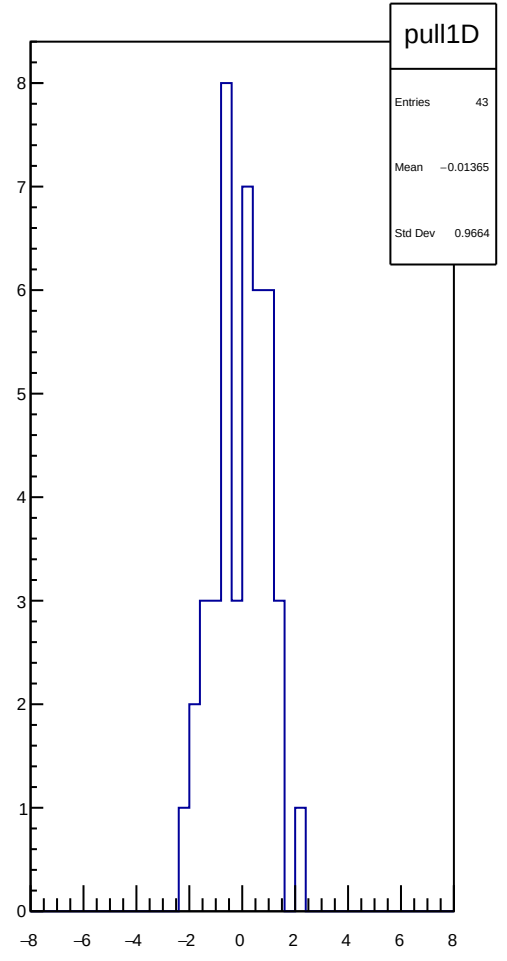

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

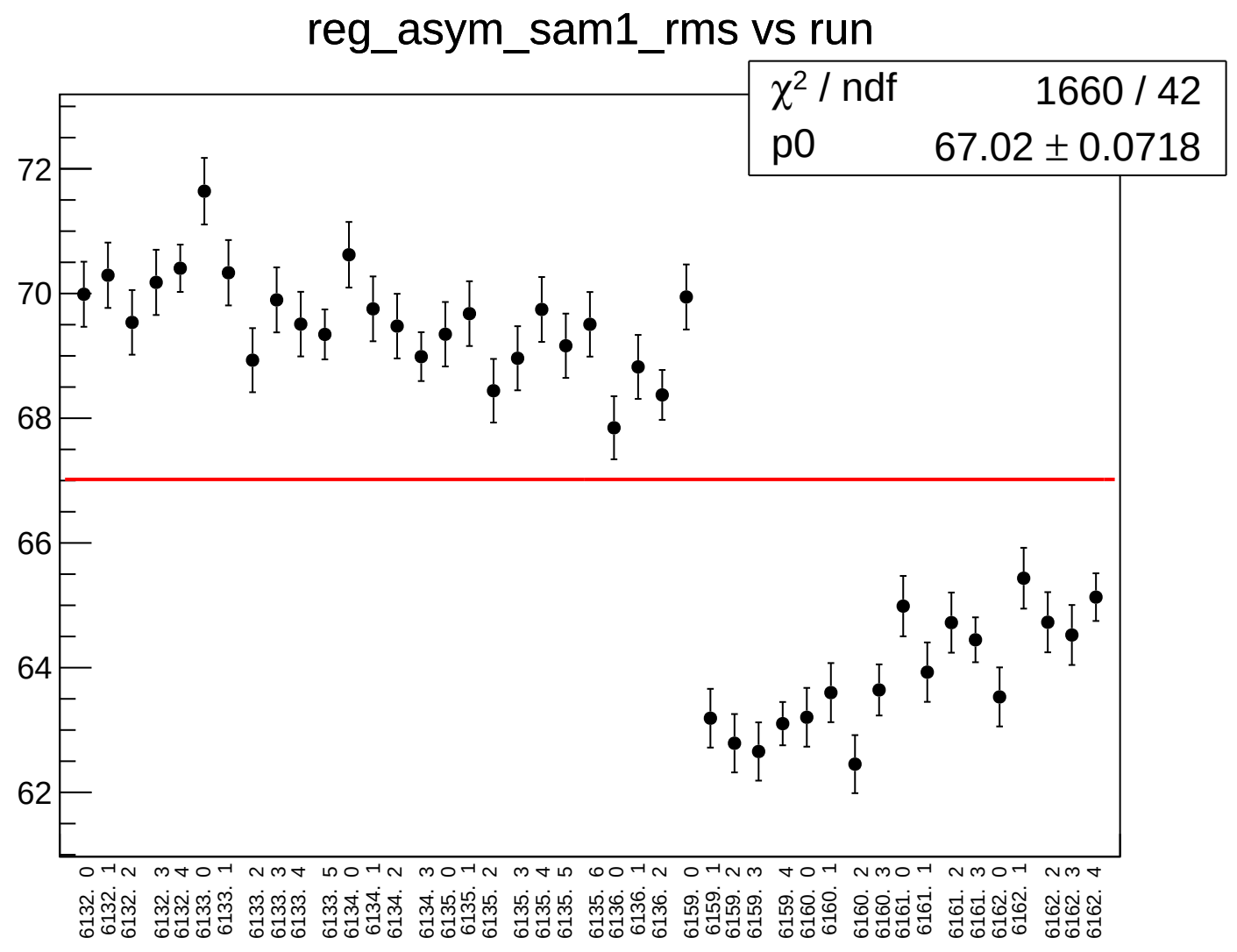

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

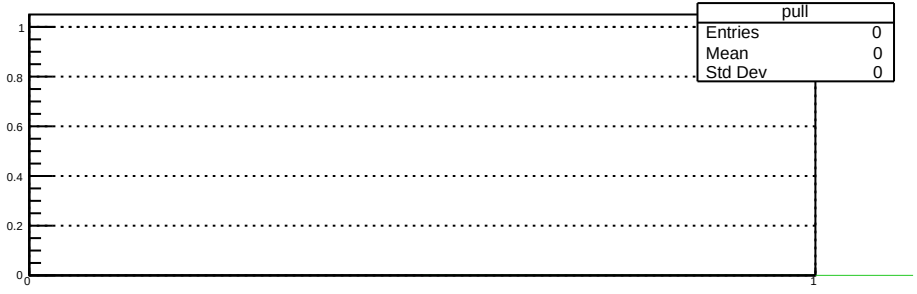

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

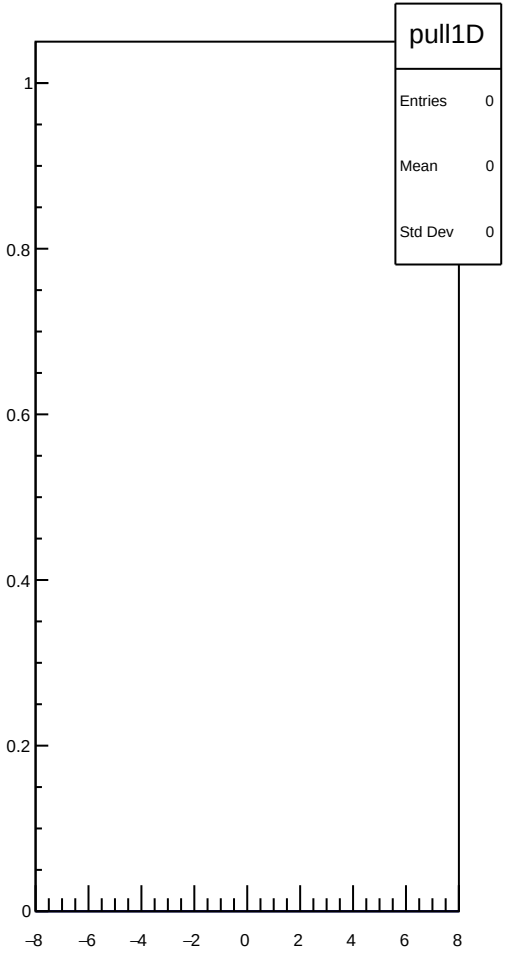

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

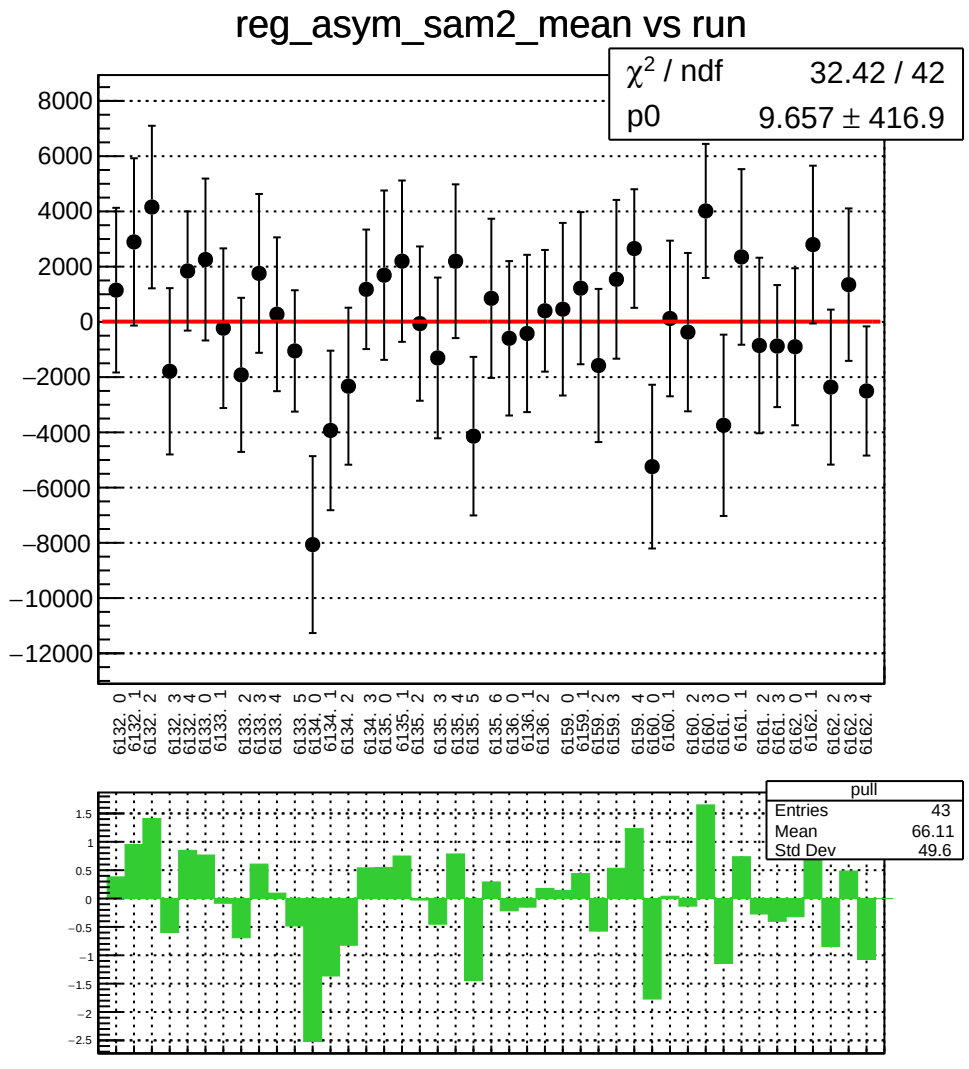

reg_asym_sam1_mean vs run
χ² / ndf 40.17 / 42
p0 133.1 ± 101.5
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −154
Std Dev 178.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

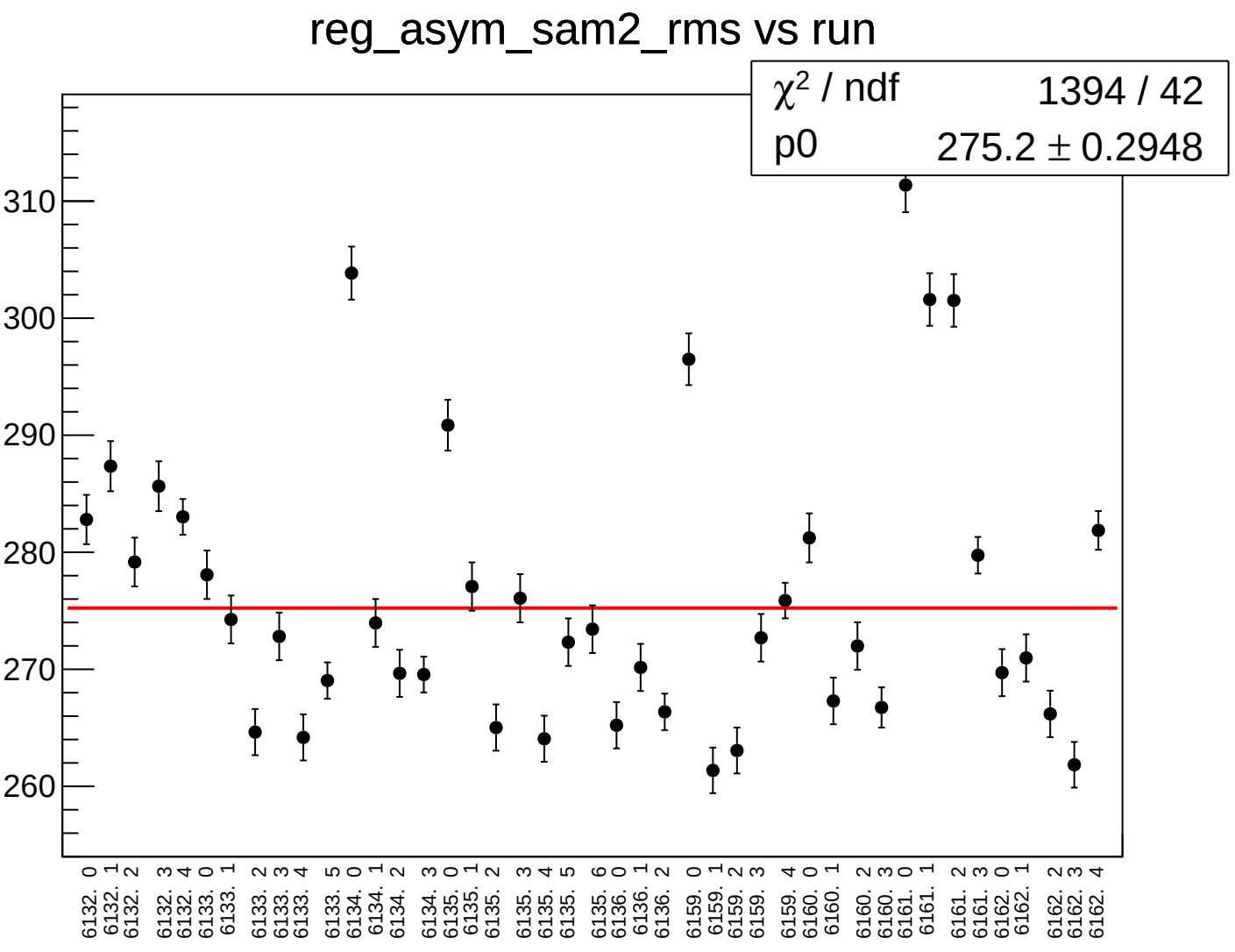

pull1D
Entries 43
Mean −0.01365
Std Dev 0.9664
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

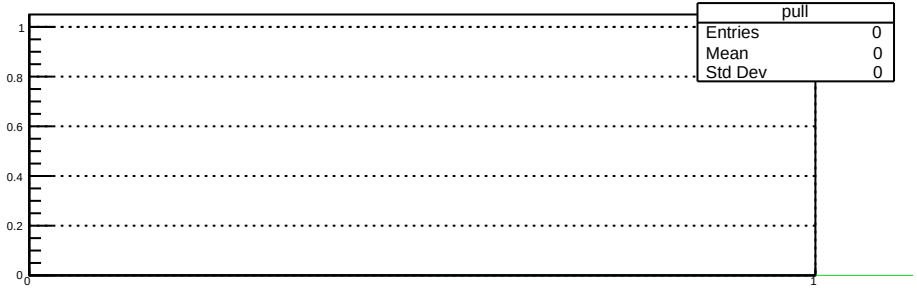

reg_asym_sam1_rms vs run
χ² / ndf 1660 / 42
p0 67.02 ± 0.0718
72
70
68
66
64
62
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

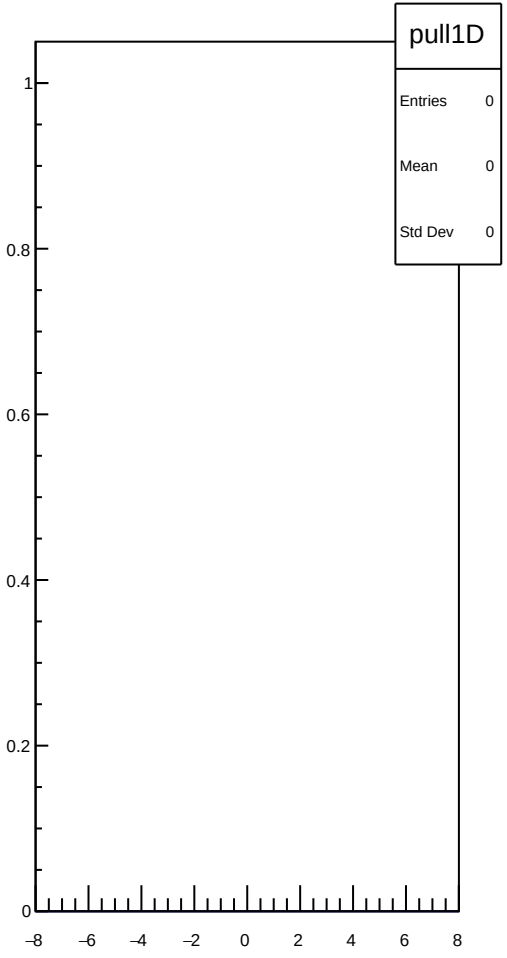

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

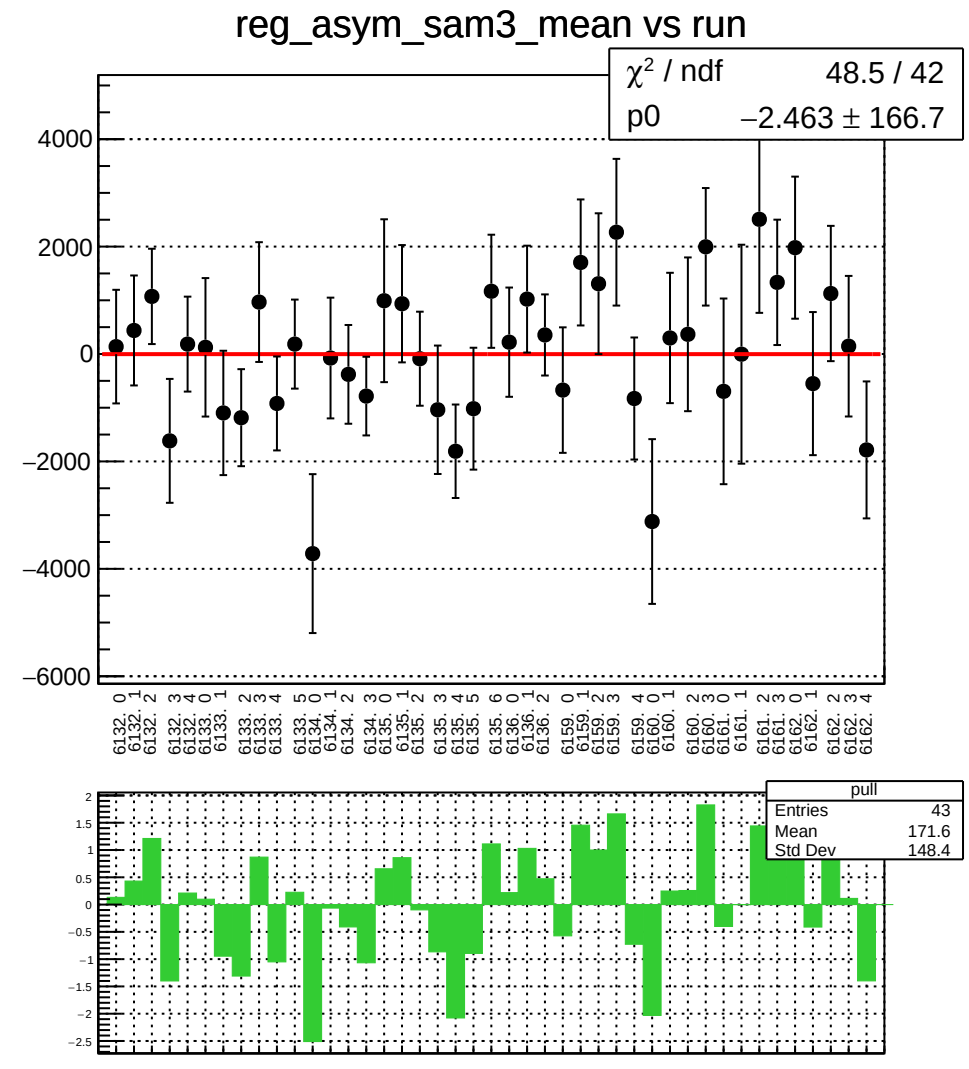

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

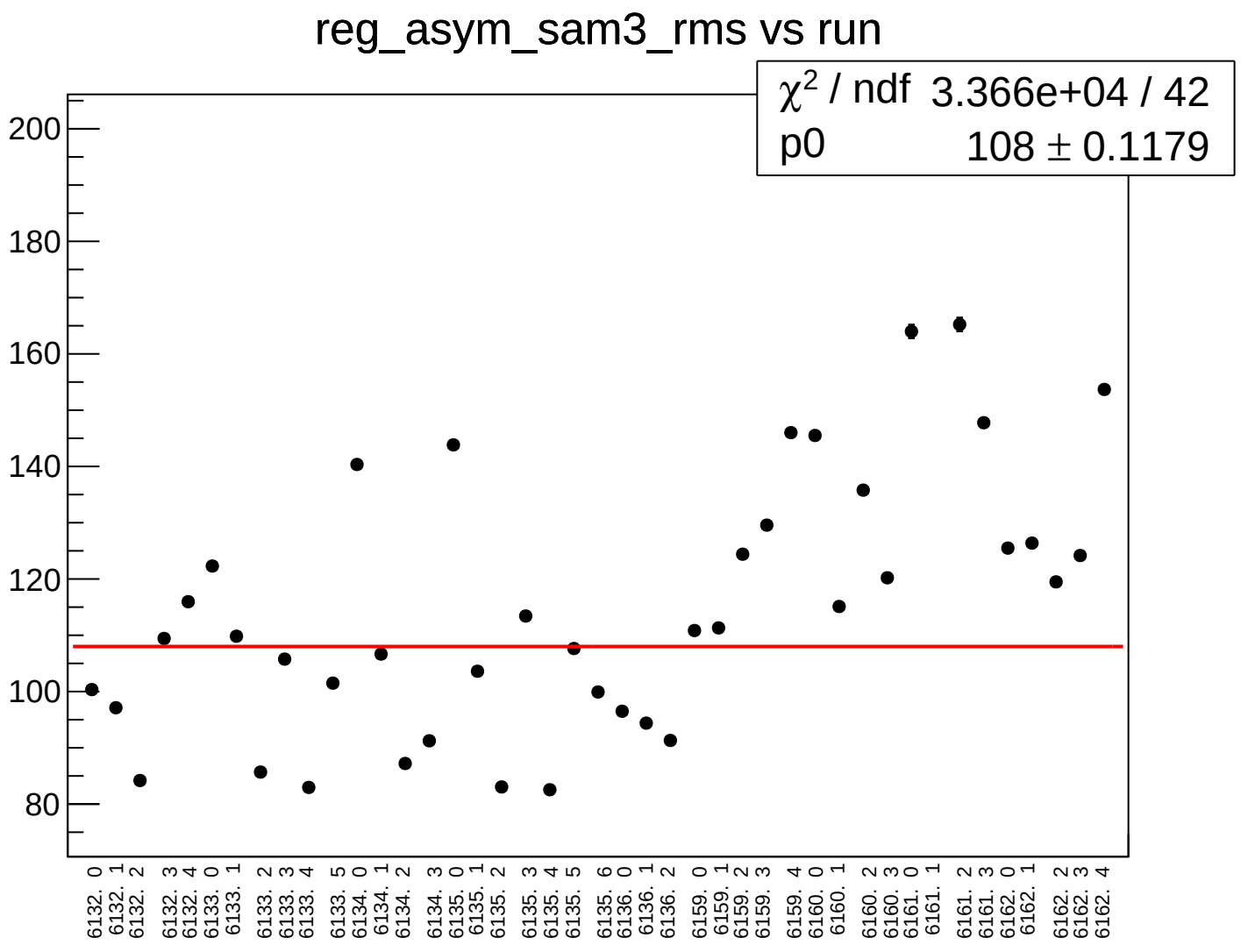

reg_asym_sam2_mean vs run
χ² / ndf 32.42 / 42
p0 9.657 ± 416.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 66.11
Std Dev 49.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.02301
Std Dev 0.868
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

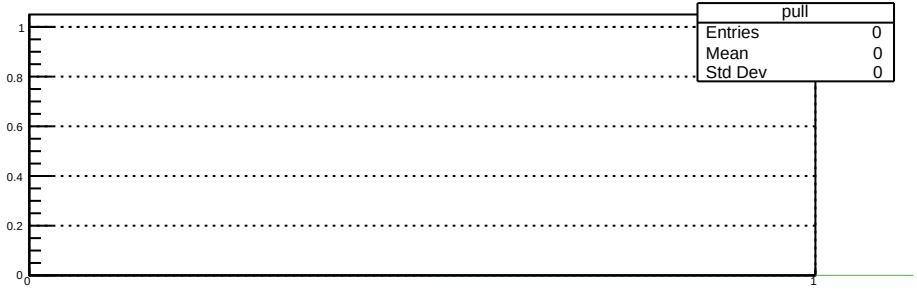

reg_asym_sam2_rms vs run
χ² / ndf 1394 / 42
p0 275.2 ± 0.2948
310
300
290
280
270
260
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

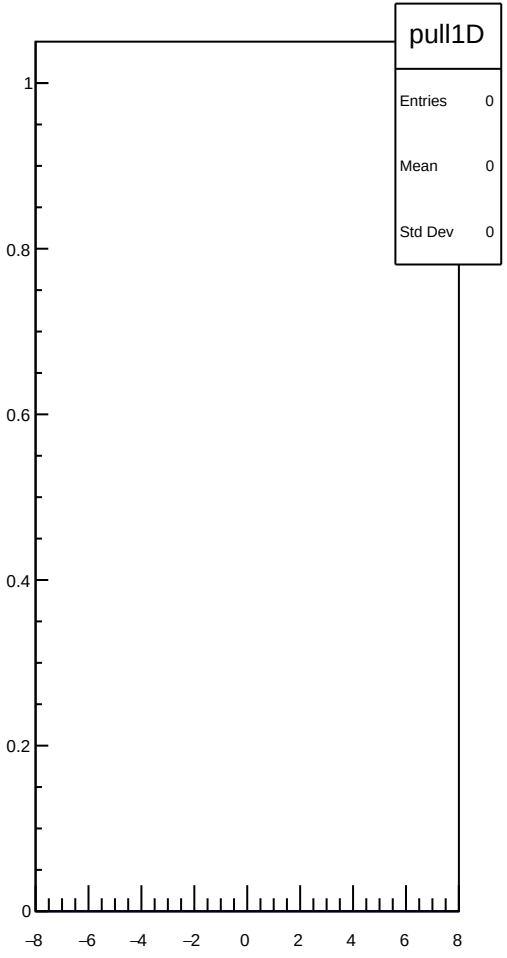

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

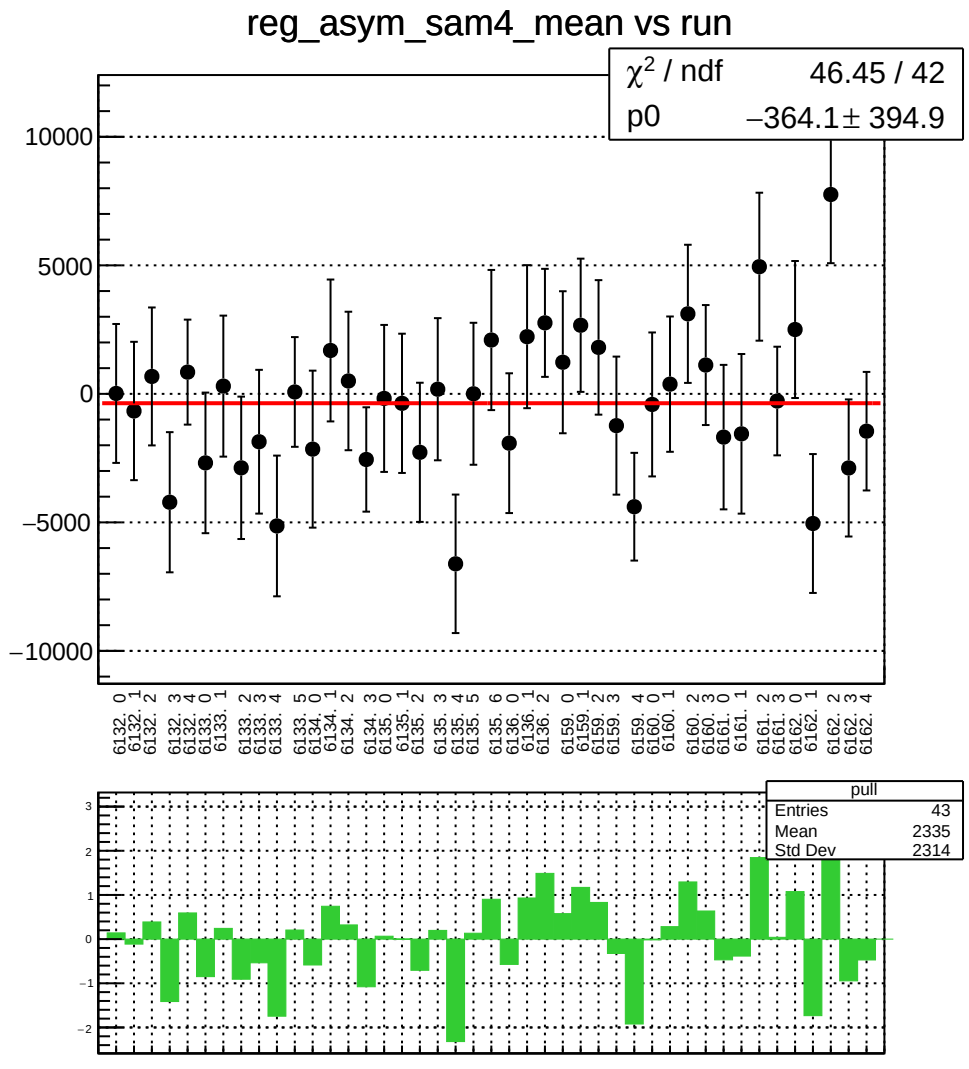

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

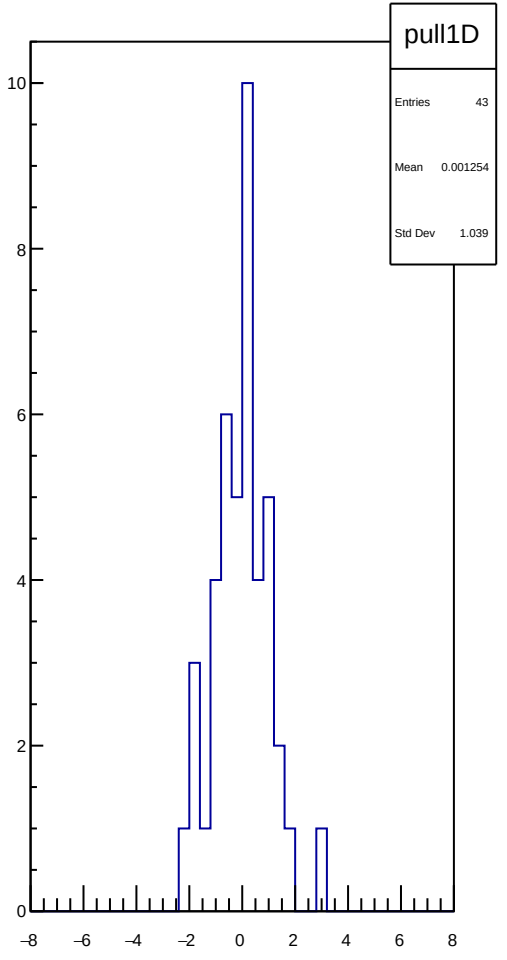

reg_asym_sam3_mean vs run
χ² / ndf 48.5 / 42
p0 −2.463 ± 166.7
4000
2000
0
−2000
−4000
−6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 171.6
Std Dev 148.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.01943
Std Dev 1.062
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

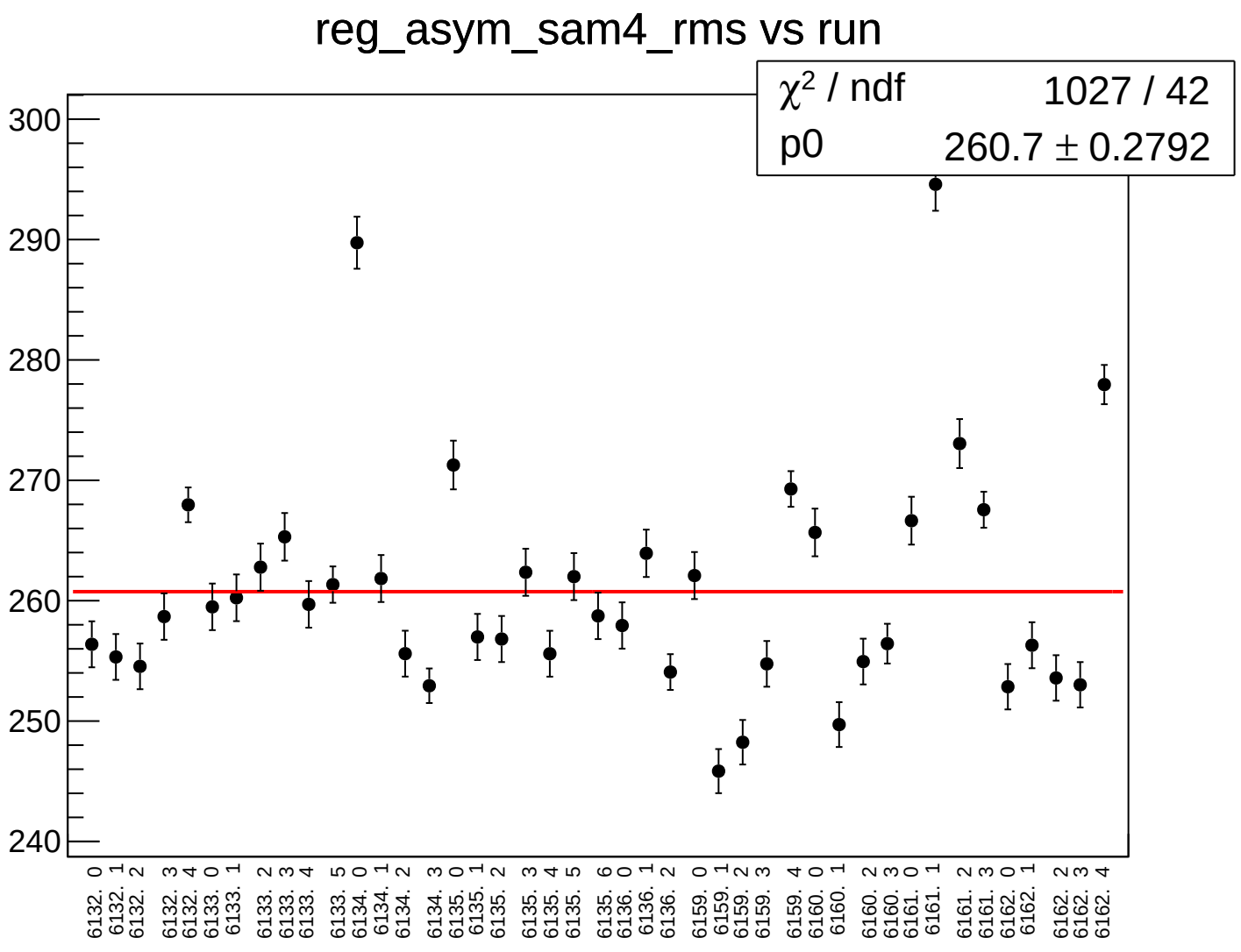

reg_asym_sam3_rms vs run
χ² / ndf 3.366e+04 / 42
p0 108 ± 0.1179
200
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

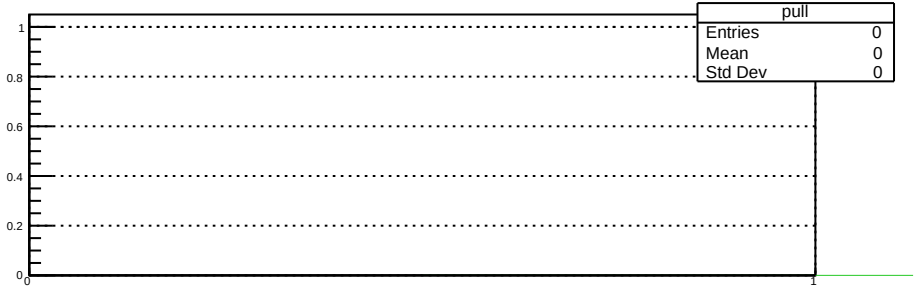

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

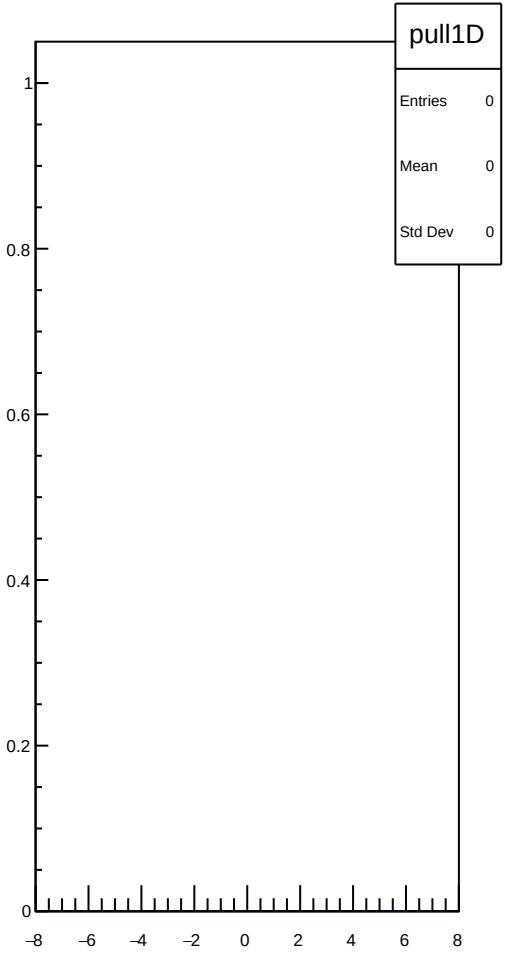

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

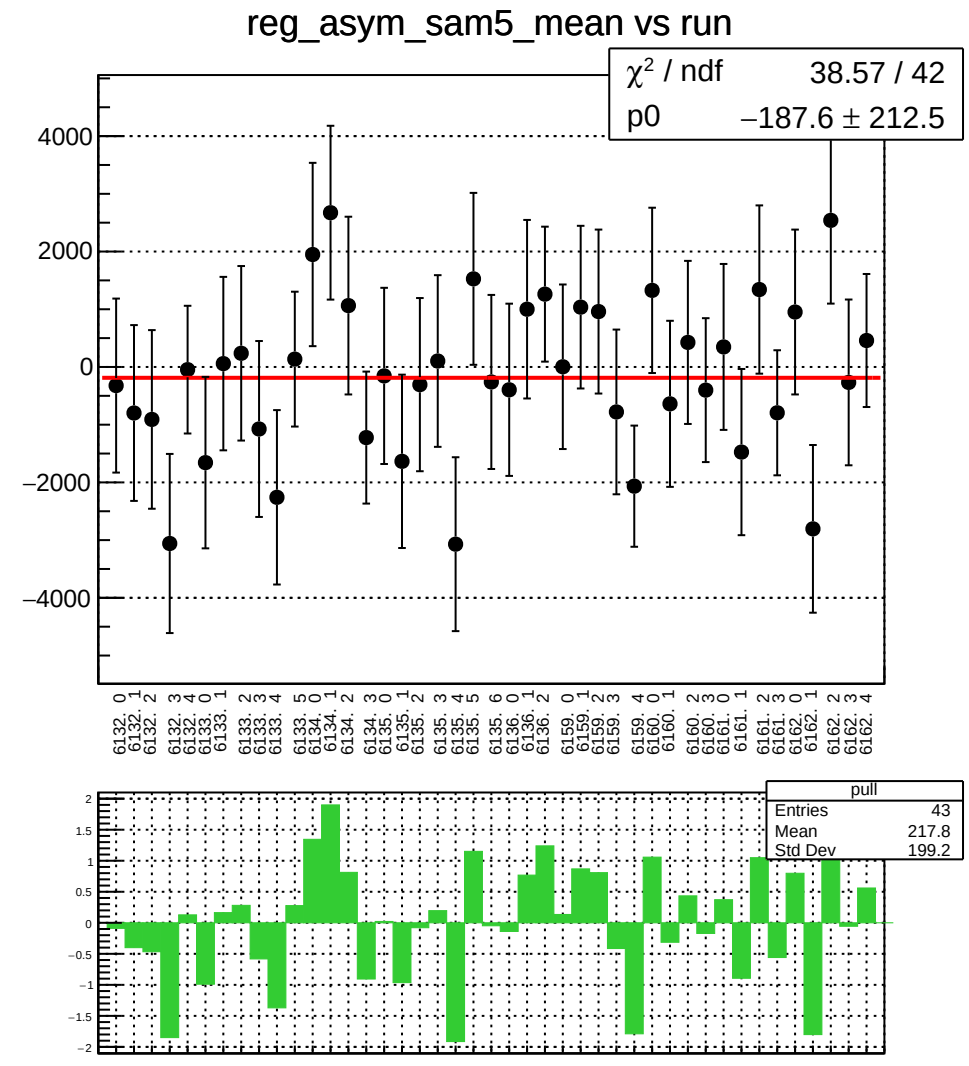

reg_asym_sam4_mean vs run
χ² / ndf 46.45 / 42
p0 −364.1± 394.9
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 2335
Std Dev 2314
3
2
1
0
−1
−2

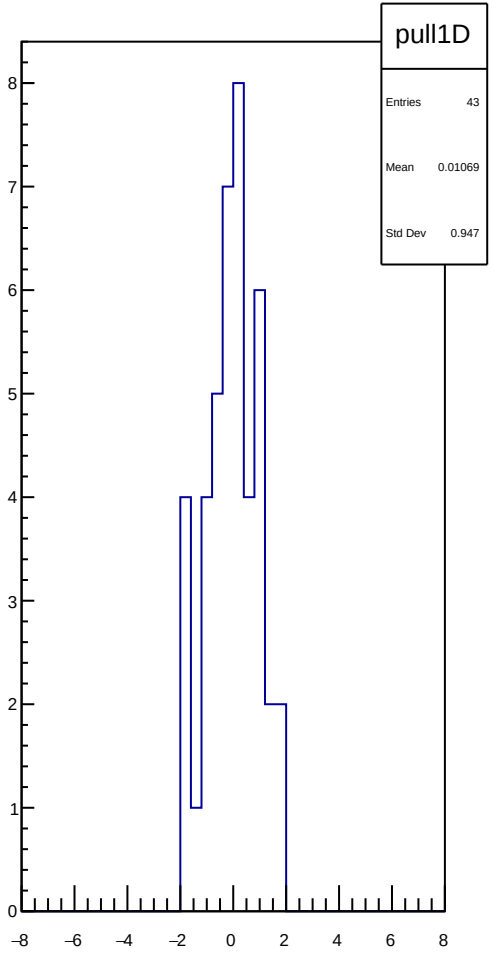

pull1D
Entries 43
Mean 0.001254
Std Dev 1.039
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

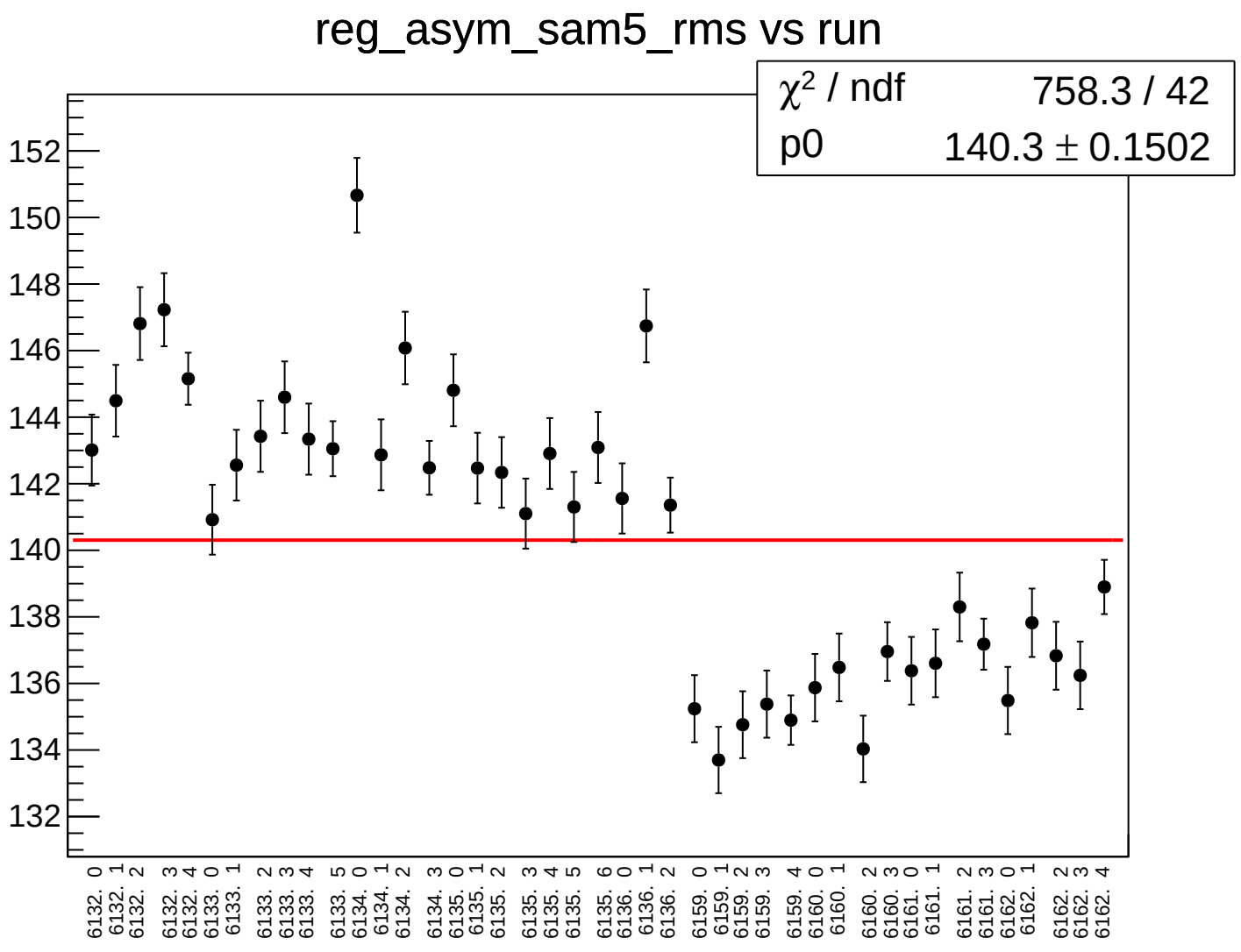

reg_asym_sam4_rms vs run
χ² / ndf 1027 / 42
p0 260.7 ± 0.2792
300
290
280
270
260
250
240
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

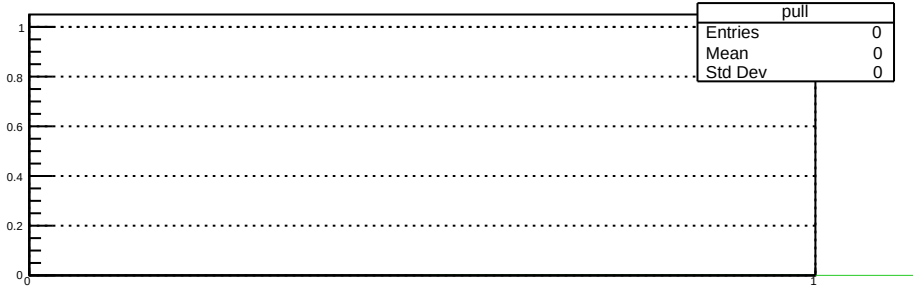

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

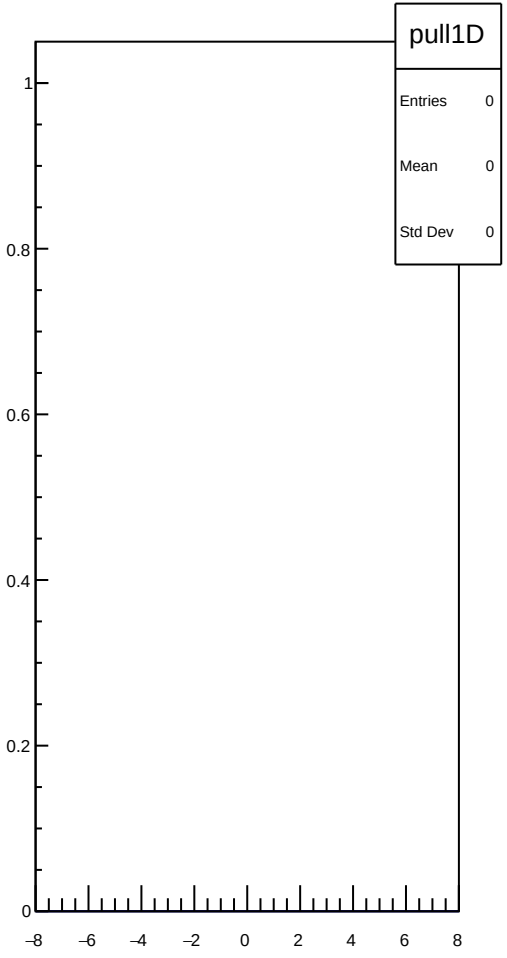

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

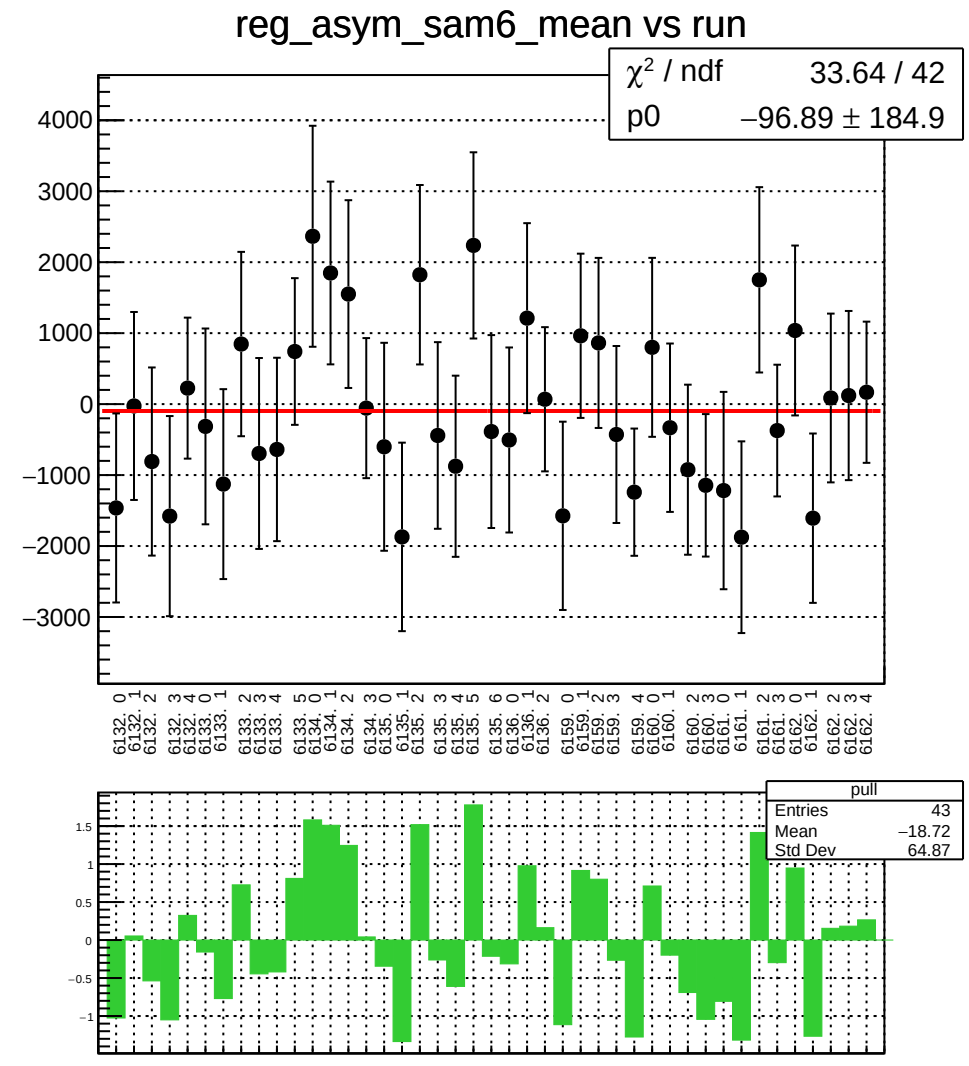

reg_asym_sam5_mean vs run
χ² / ndf 38.57 / 42
p0 −187.6 ± 212.5
4000
2000
0
−2000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 217.8
Std Dev 199.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

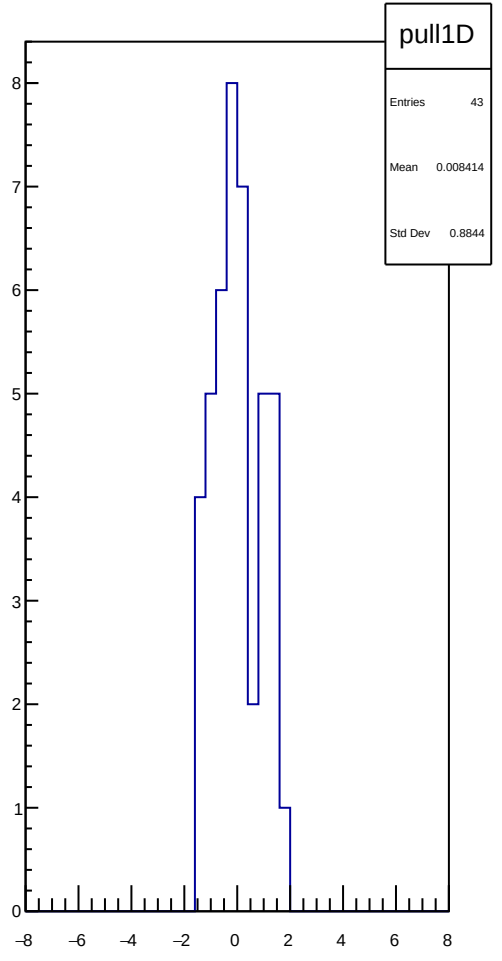

pull1D
Entries 43
Mean 0.01069
Std Dev 0.947
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

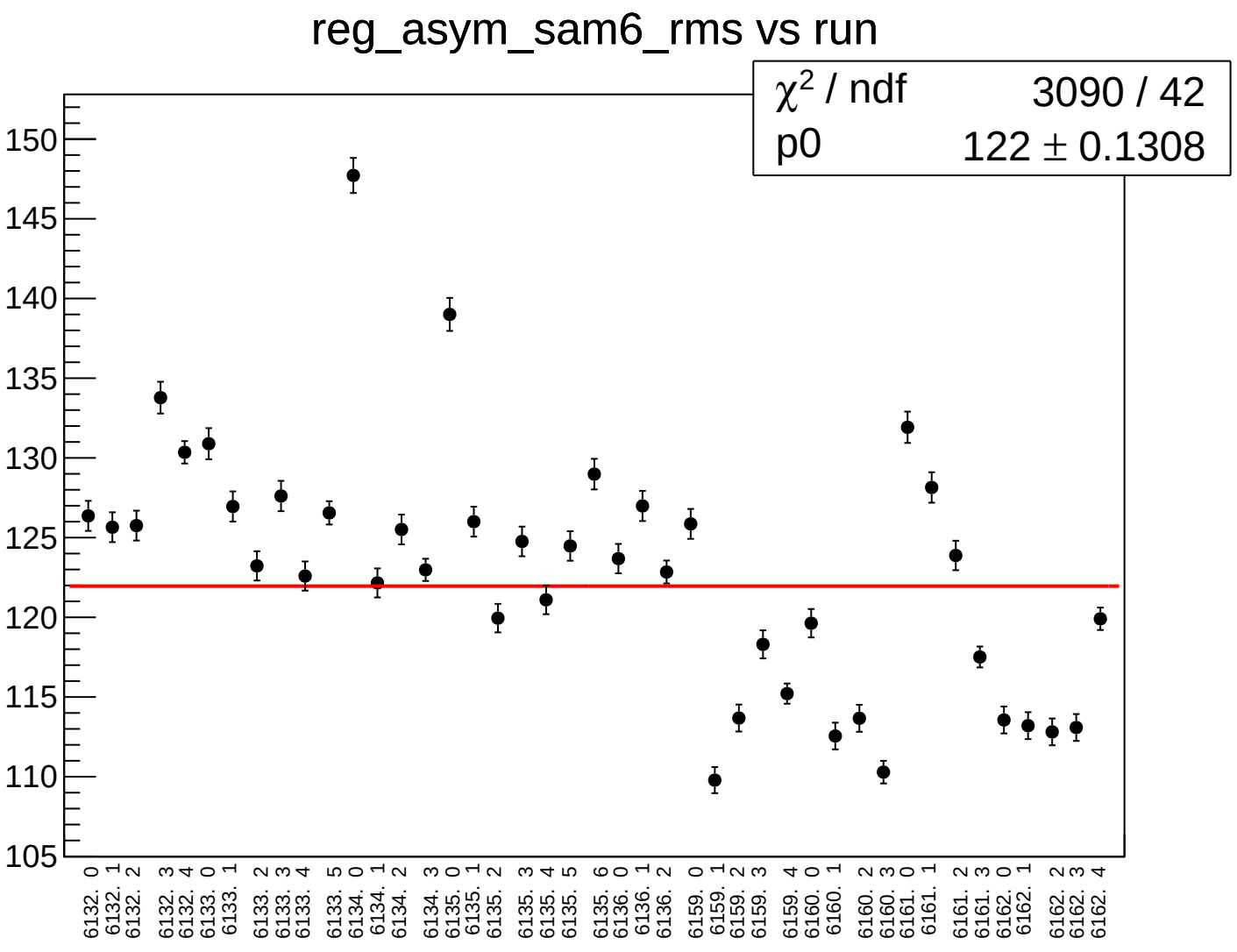

reg_asym_sam5_rms vs run
χ² / ndf 758.3 / 42
p0 140.3 ± 0.1502
152
150
148
146
144
142
140
138
136
134
132
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

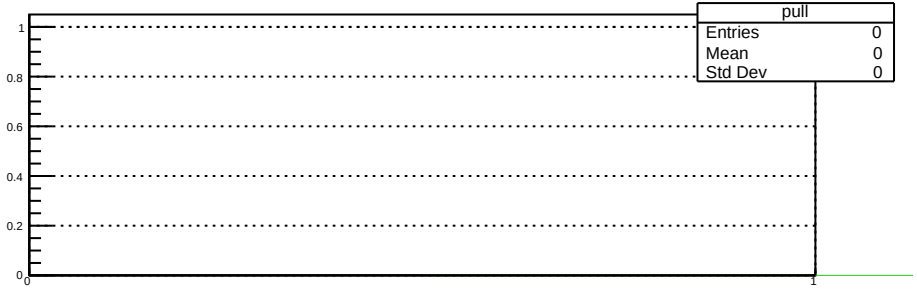

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

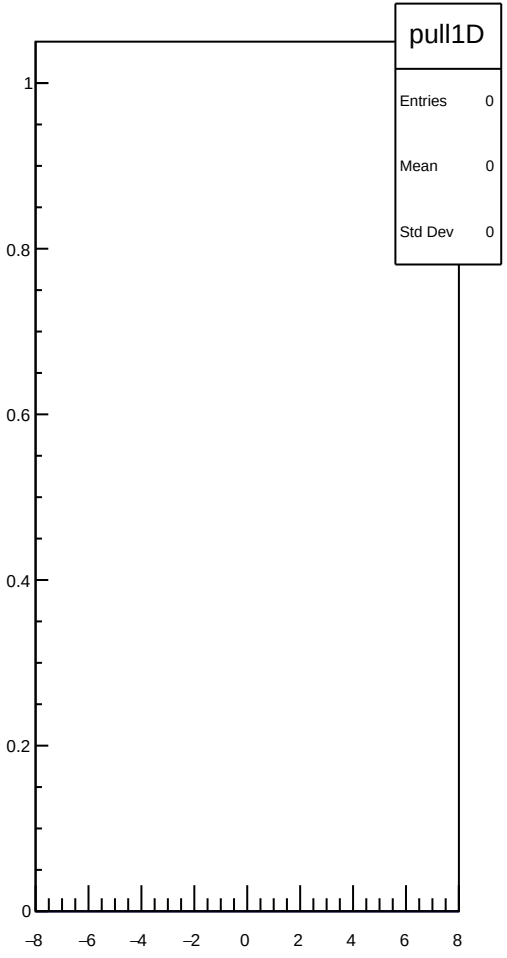

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

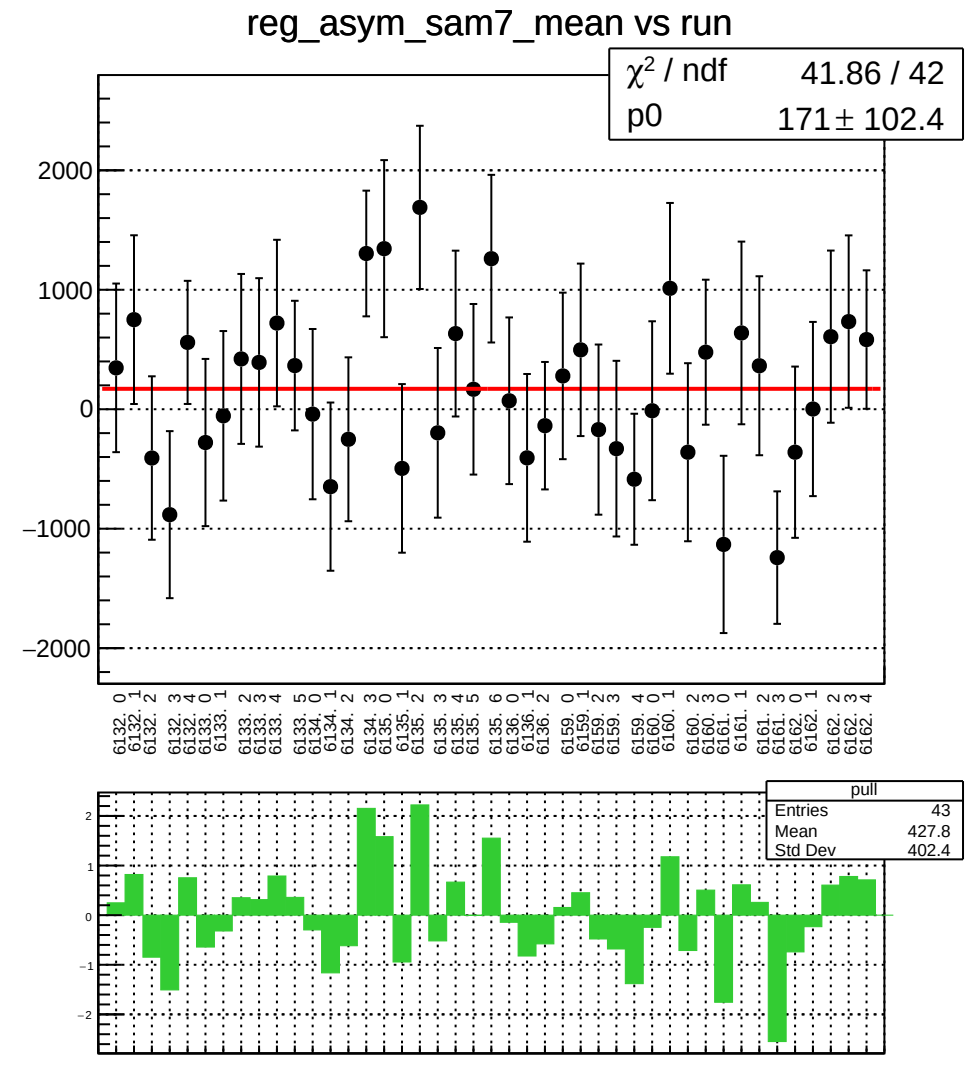

reg_asym_sam6_mean vs run
χ² / ndf 33.64 / 42
p0 −96.89 ± 184.9
4000
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −18.72
Std Dev 64.87
1.5
1
0.5
0
−0.5
−1

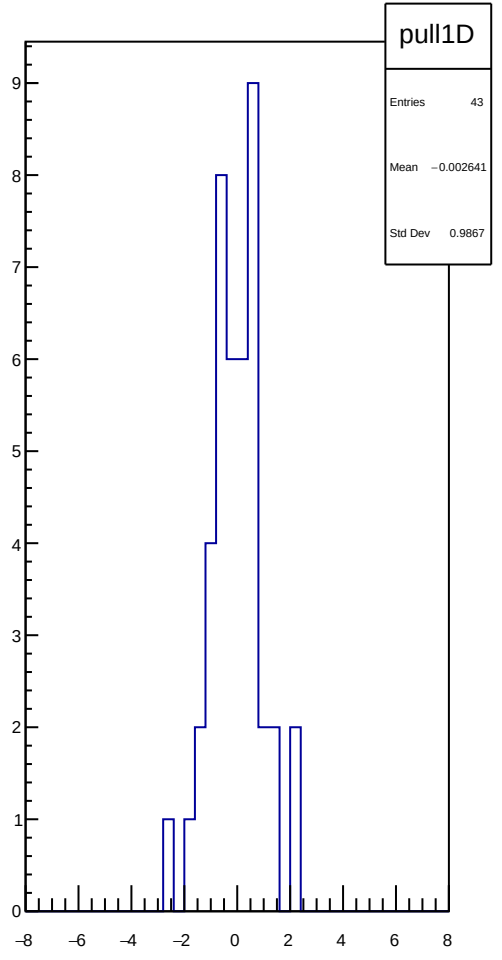

pull1D
Entries 43
Mean 0.008414
Std Dev 0.8844
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

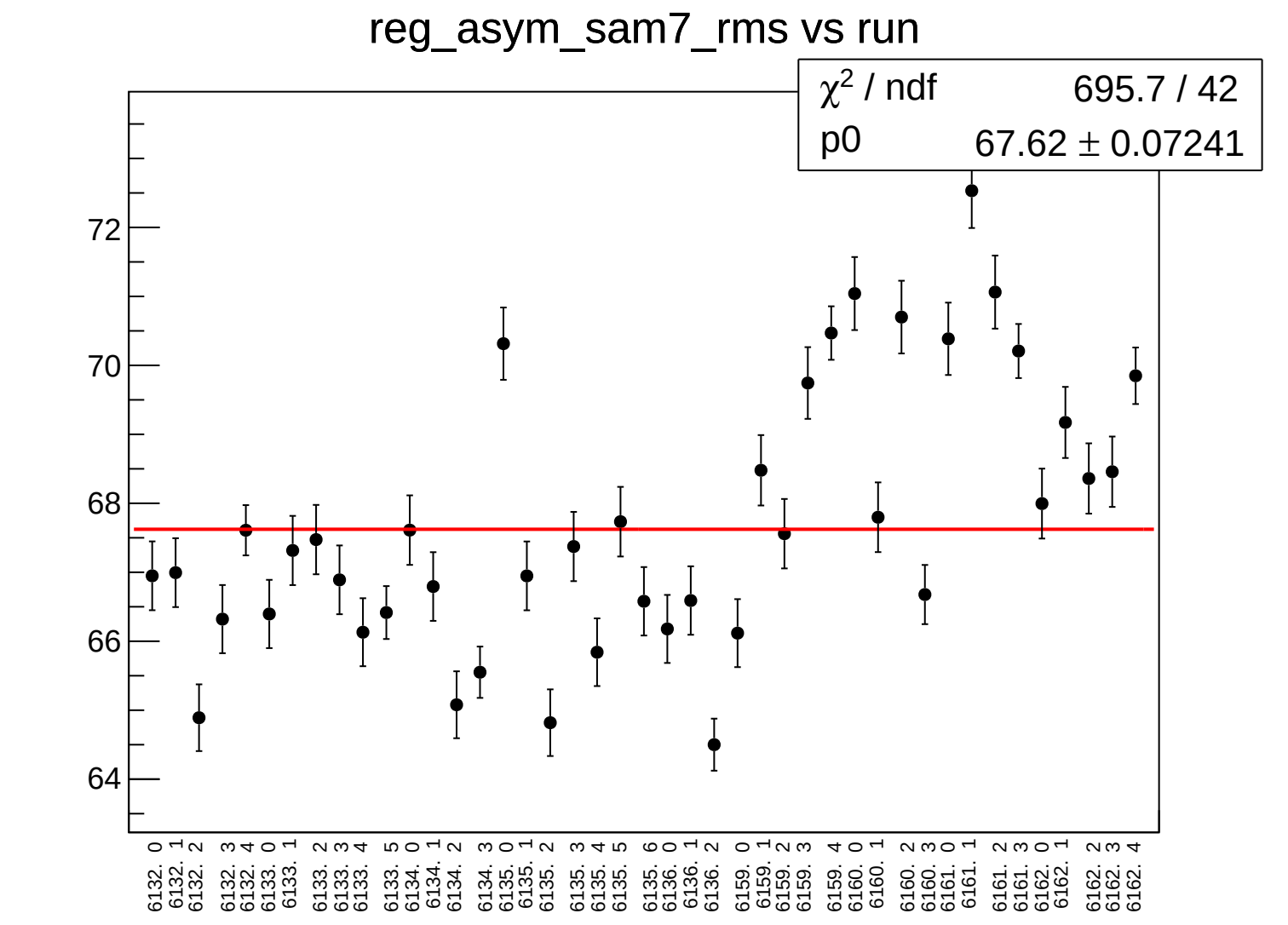

reg_asym_sam6_rms vs run
χ² / ndf 3090 / 42
p0 122 ± 0.1308
150
145
140
135
130
125
120
115
110
105
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

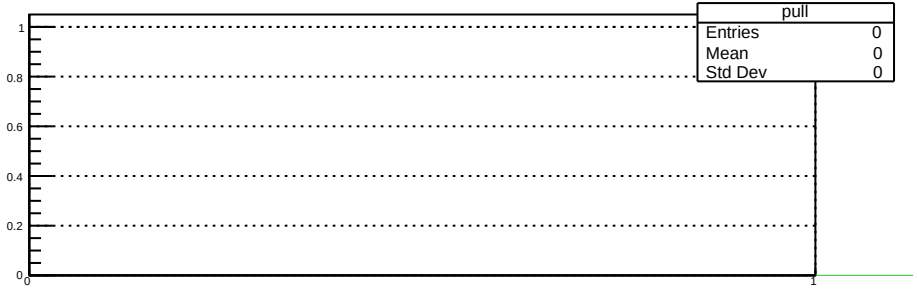

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

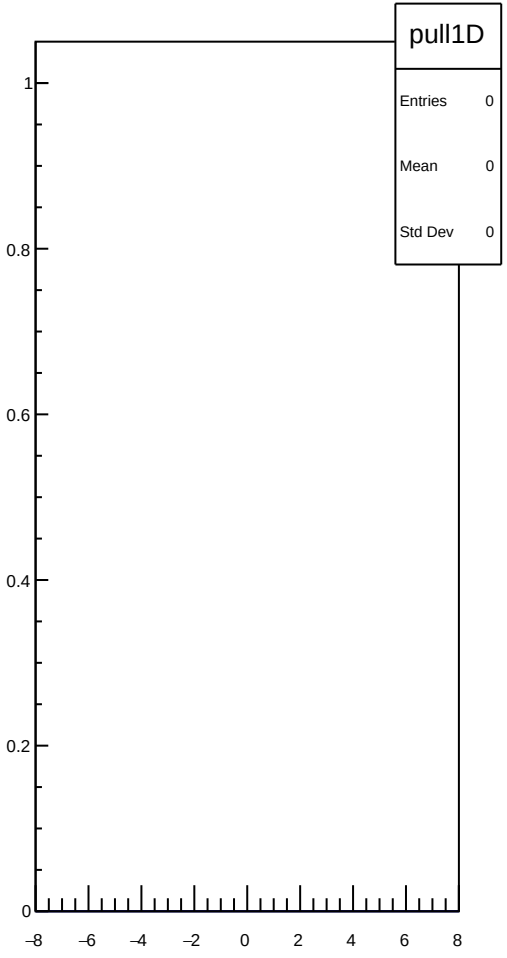

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

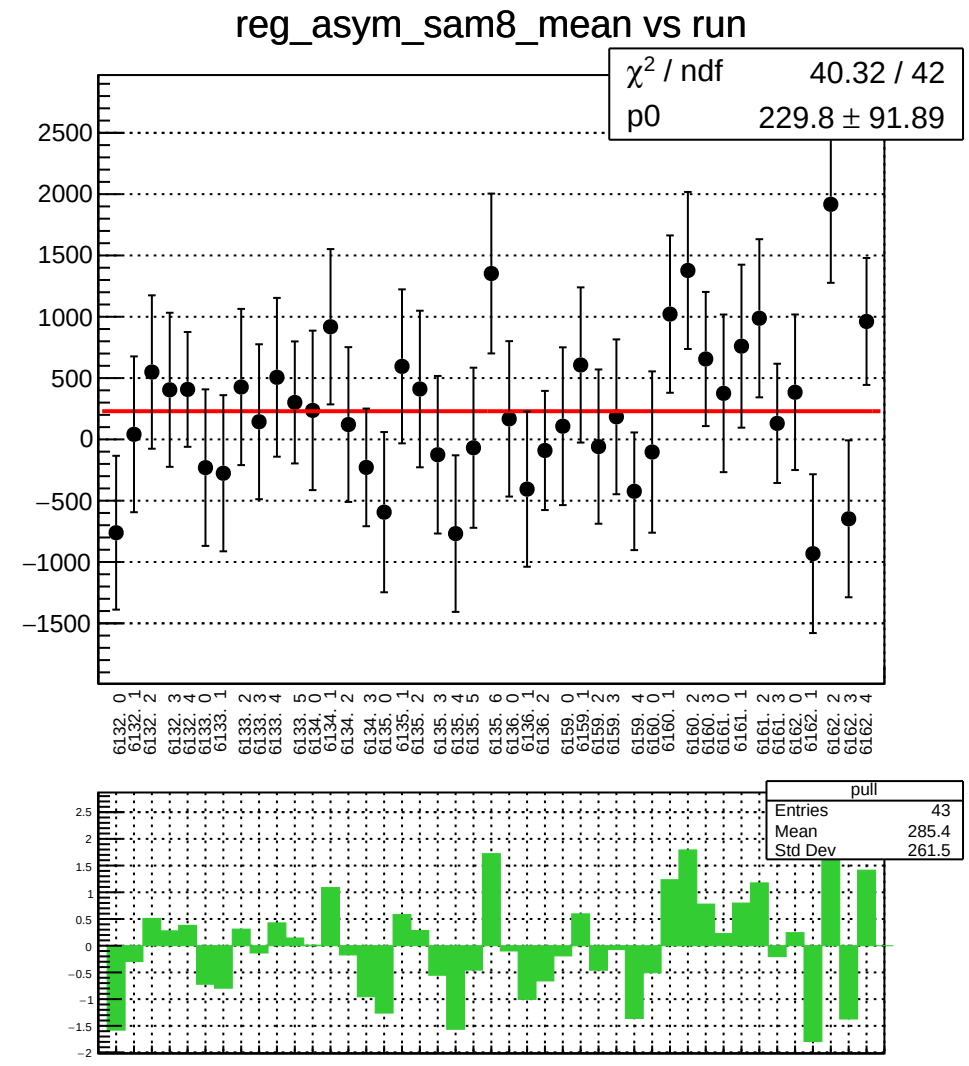

reg_asym_sam7_mean vs run
χ² / ndf 41.86 / 42
p0 171 ± 102.4
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 427.8
Std Dev 402.4
2
1
0
−1
−2

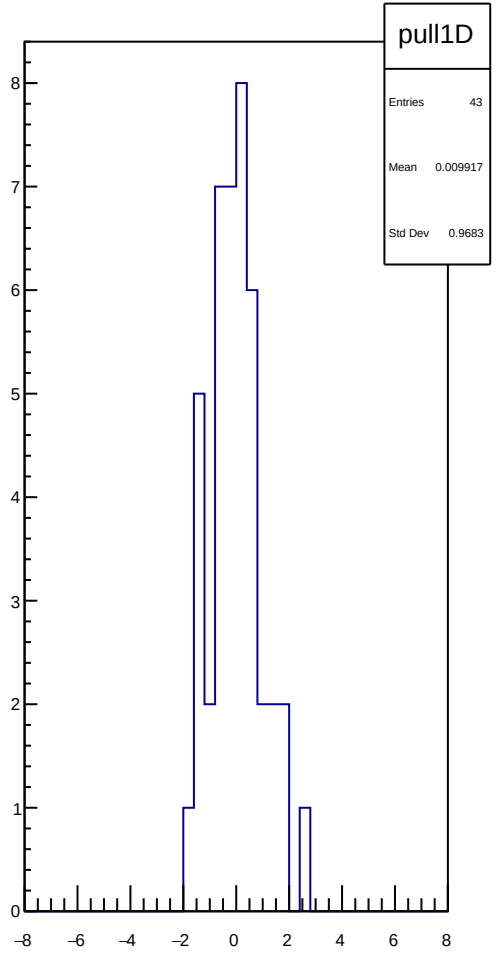

pull1D
Entries 43
Mean −0.002641
Std Dev 0.9867
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

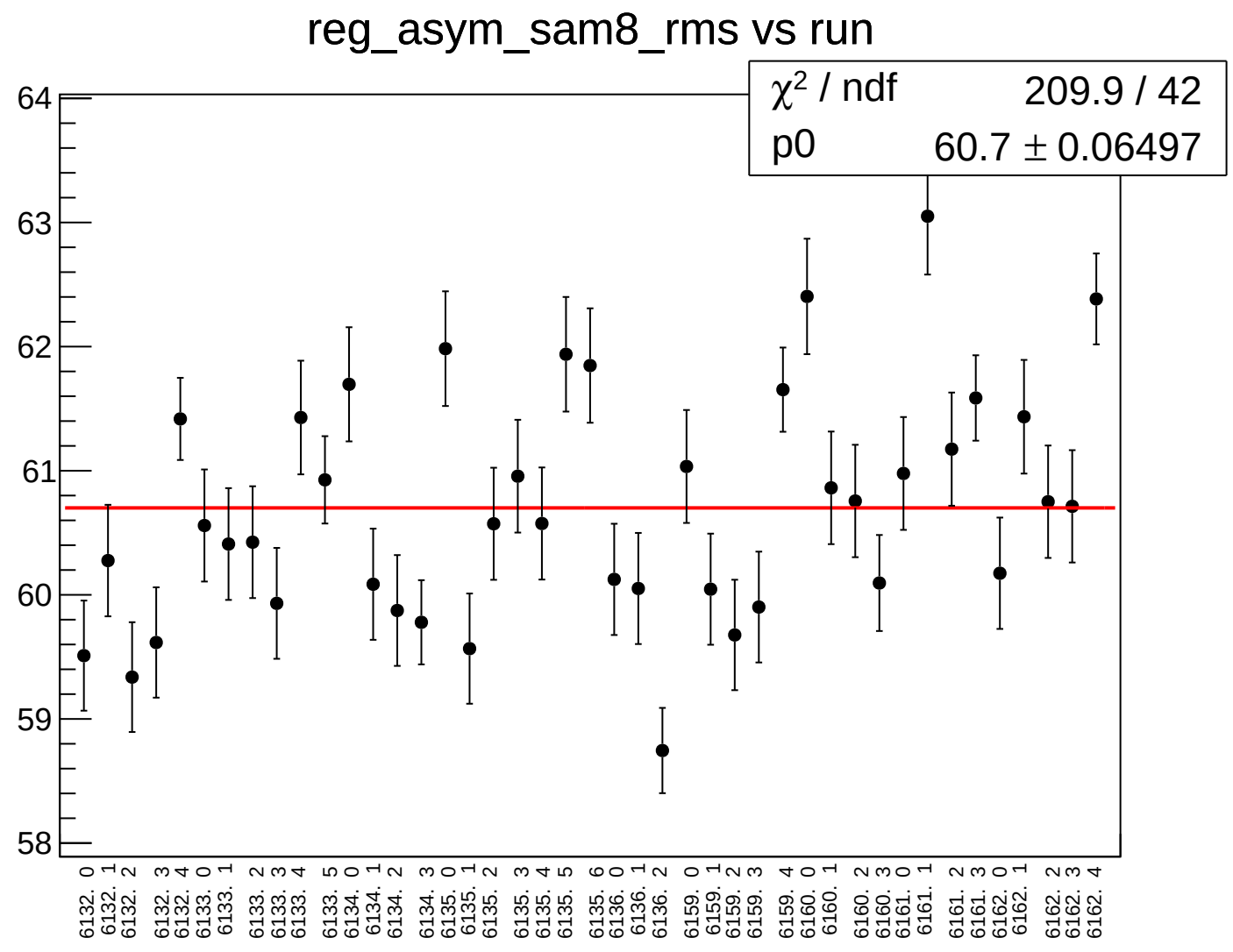

reg_asym_sam7_rms vs run
χ² / ndf 695.7 / 42
p0 67.62 ± 0.07241
72
70
68
66
64
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

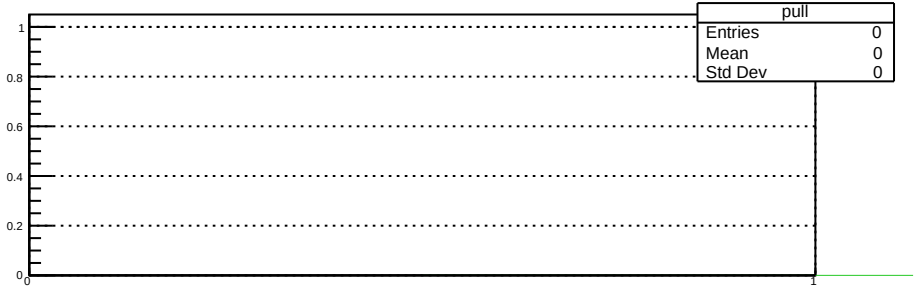

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

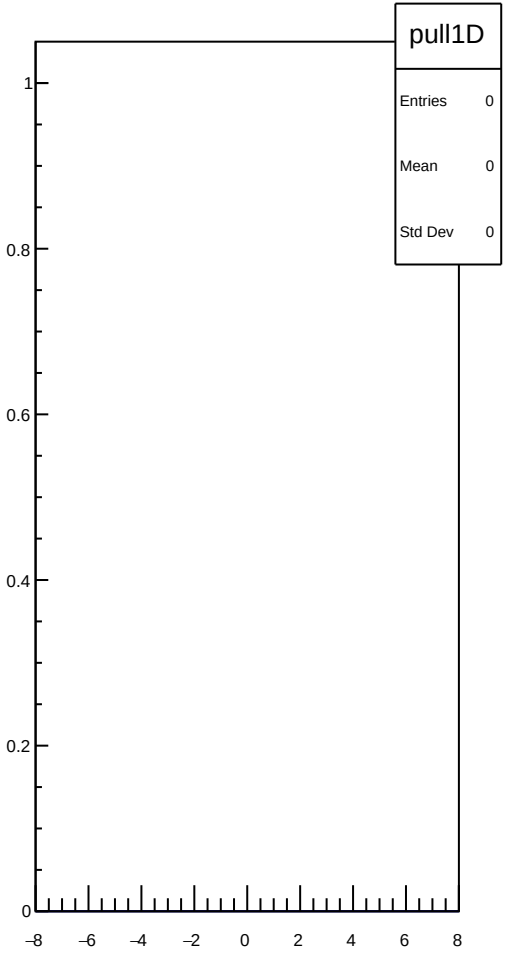

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

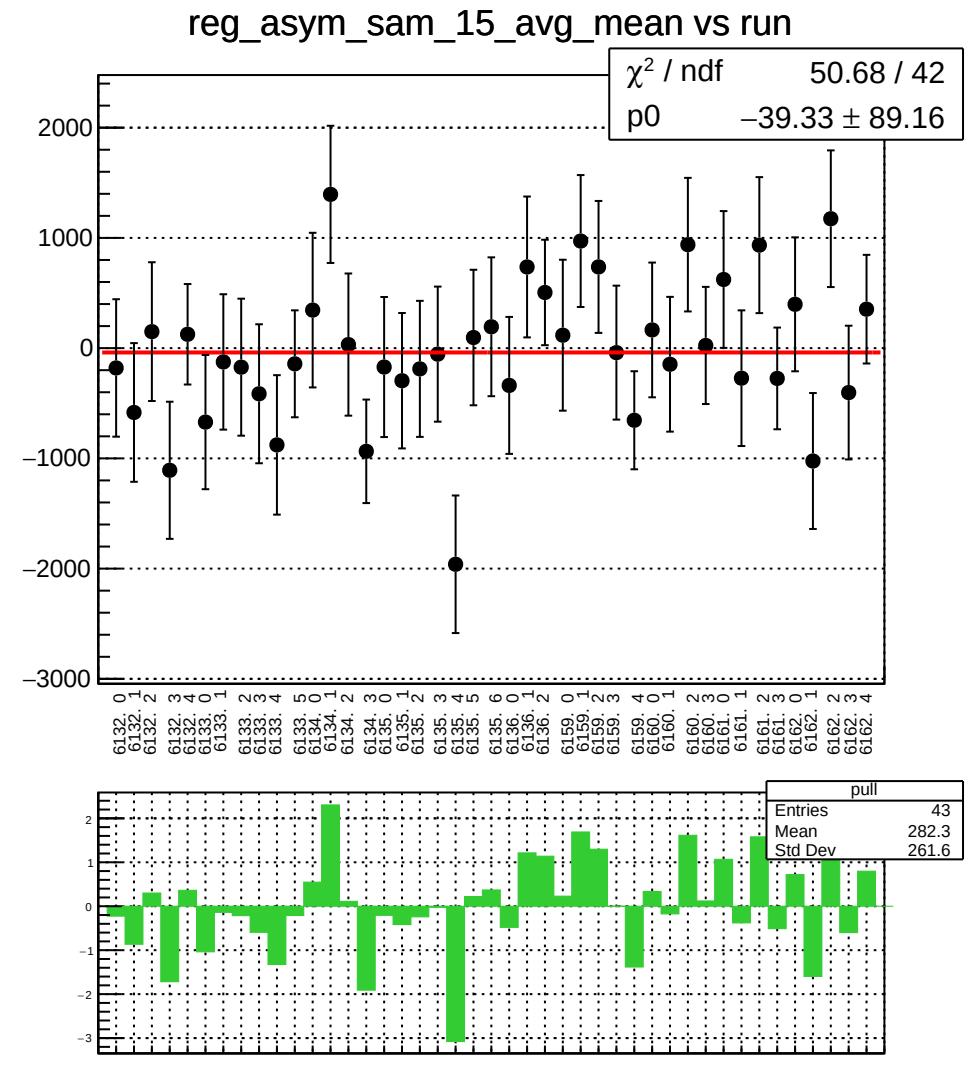

reg_asym_sam8_mean vs run
χ² / ndf 40.32 / 42
p0 229.8 ± 91.89
2500
2000
1500
1000
500
0
−500
−1000
−1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 285.4
Std Dev 261.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

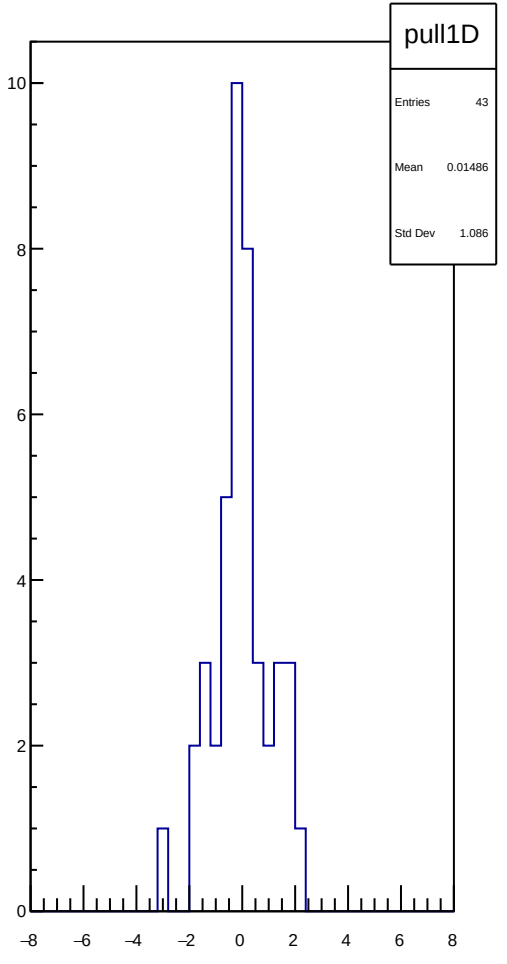

pull1D
Entries 43
Mean 0.009917
Std Dev 0.9683
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

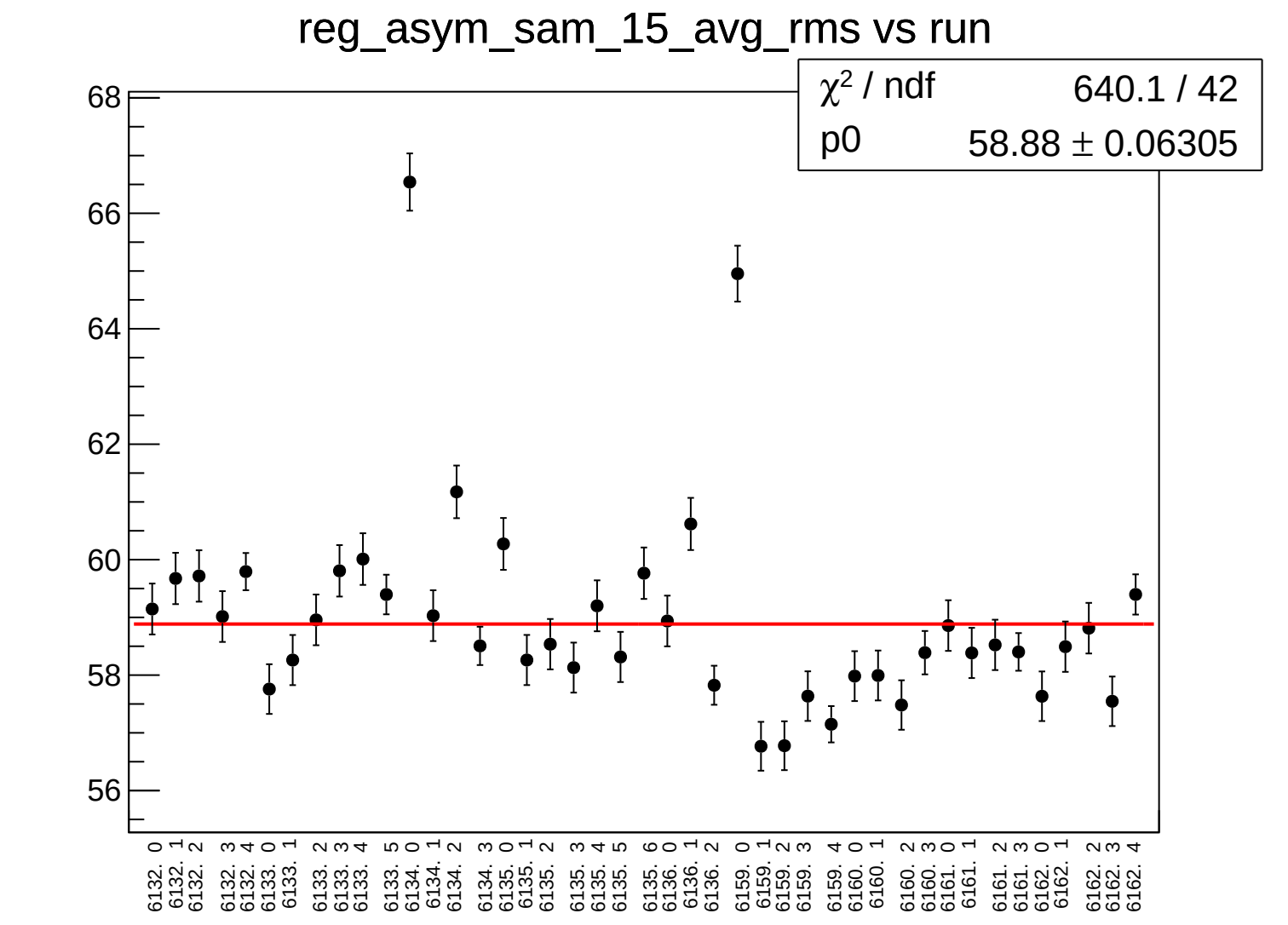

reg_asym_sam8_rms vs run
χ² / ndf 209.9 / 42
p0 60.7 ± 0.06497
64
63
62
61
60
59
58
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

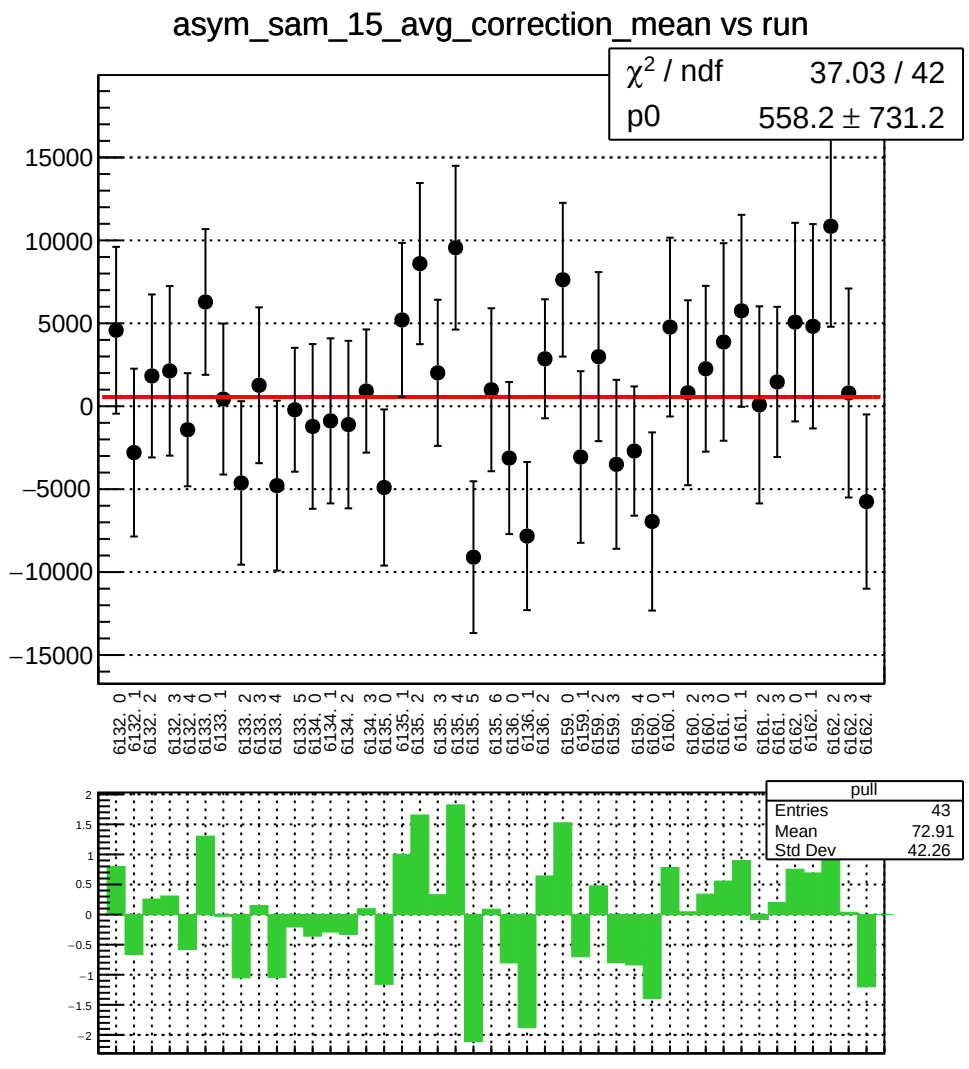

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

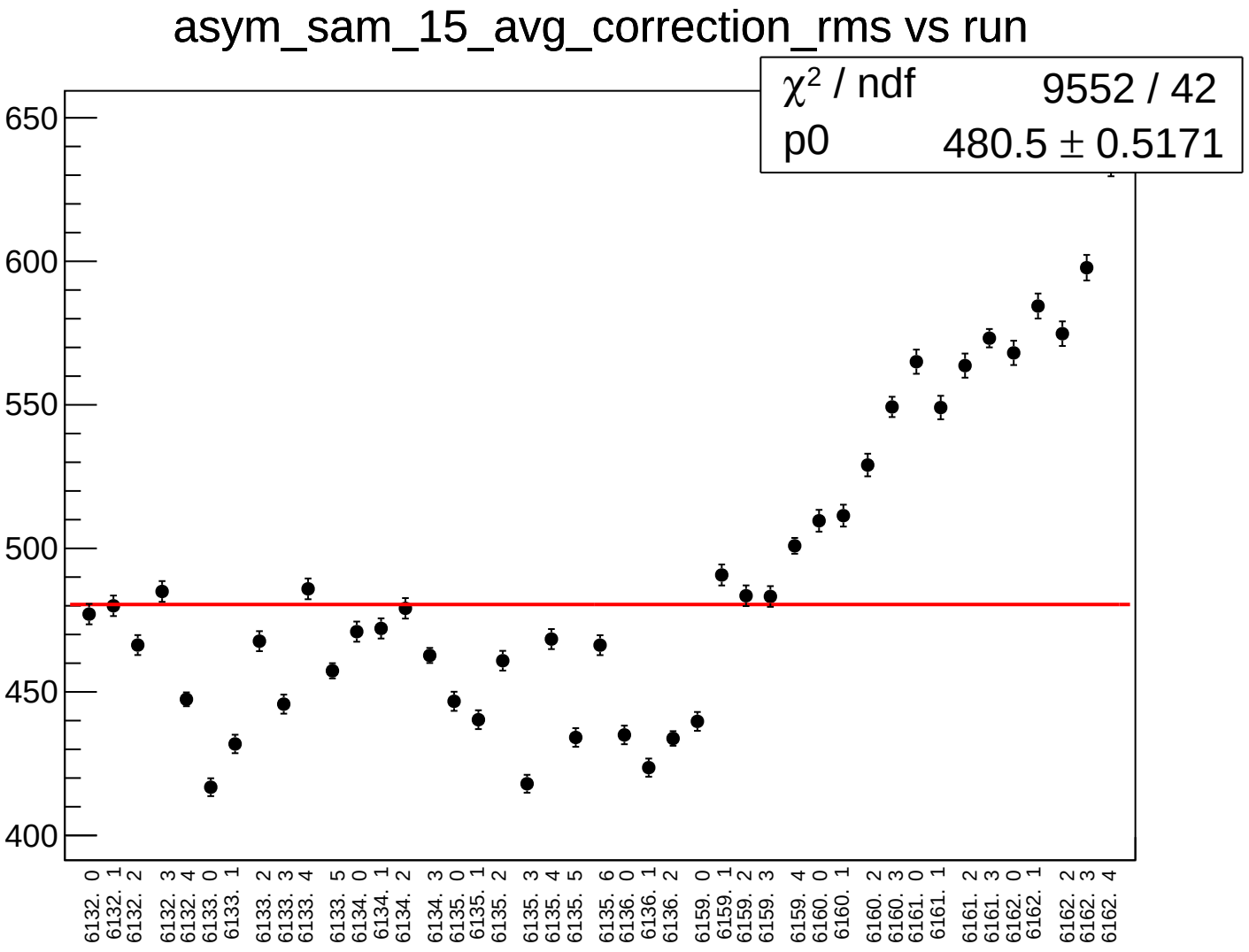

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

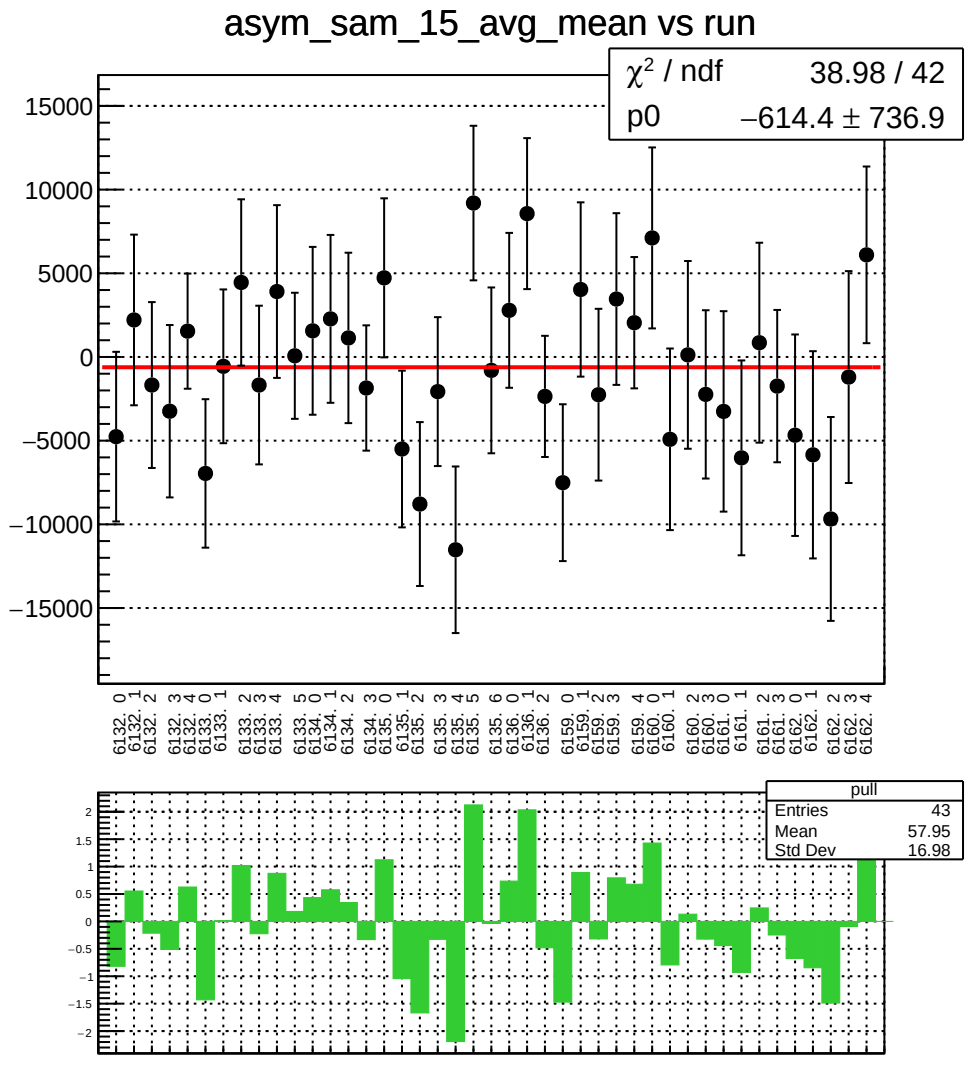

reg_asym_sam_15_avg_mean vs run
χ² / ndf 50.68 / 42
p0 −39.33 ± 89.16
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 282.3
Std Dev 261.6
2
1
0
−1
−2
−3

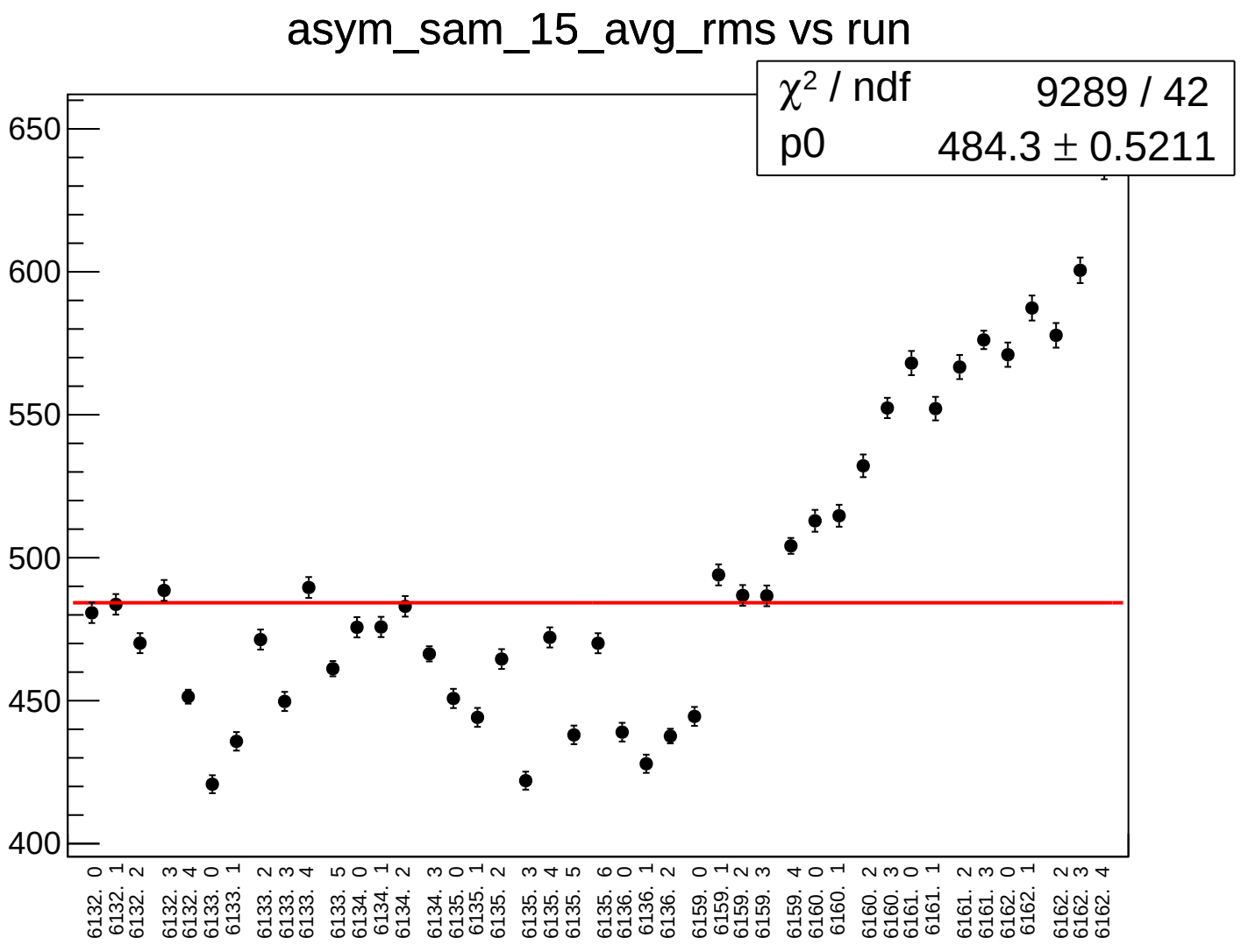

pull1D
Entries 43
Mean 0.01486
Std Dev 1.086
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

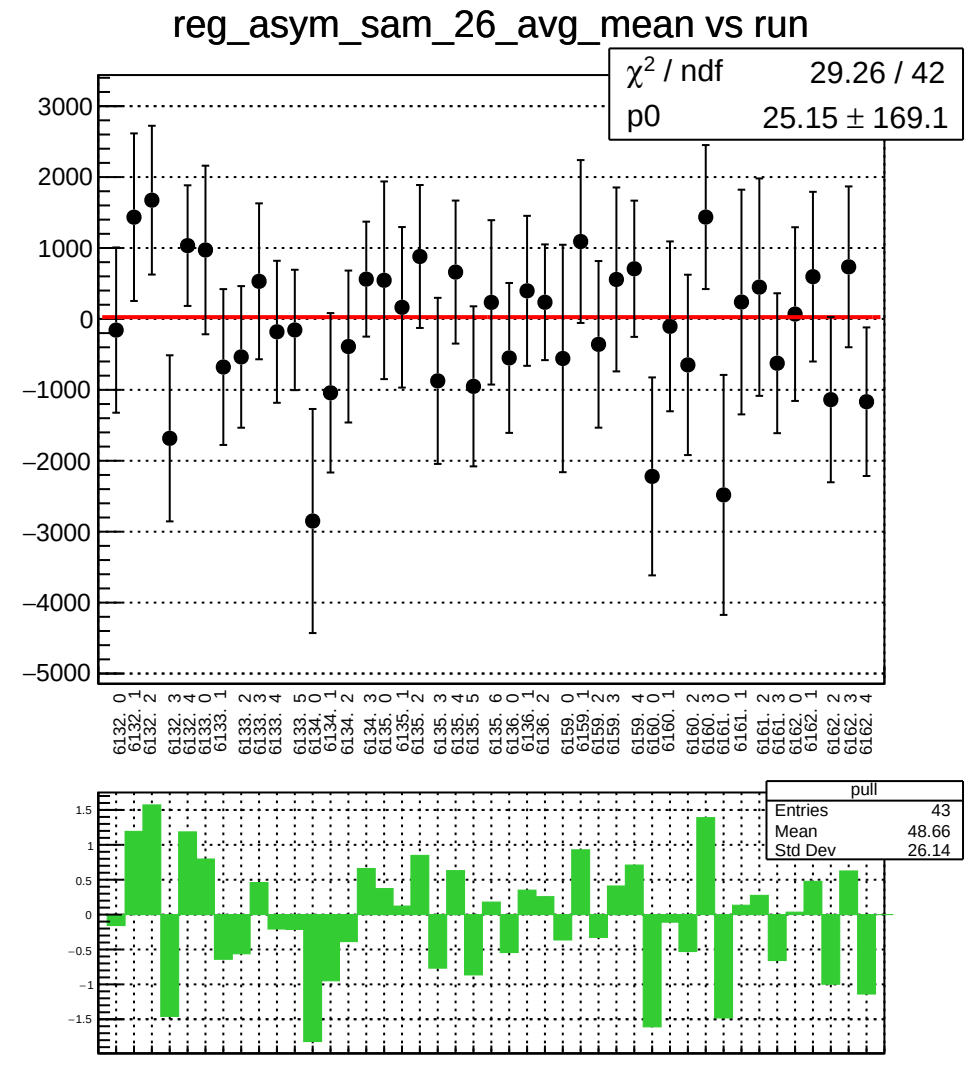

reg_asym_sam_15_avg_rms vs run
χ² / ndf 640.1 / 42
p0 58.88 ± 0.06305
68
66
64
62
60
58
56
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

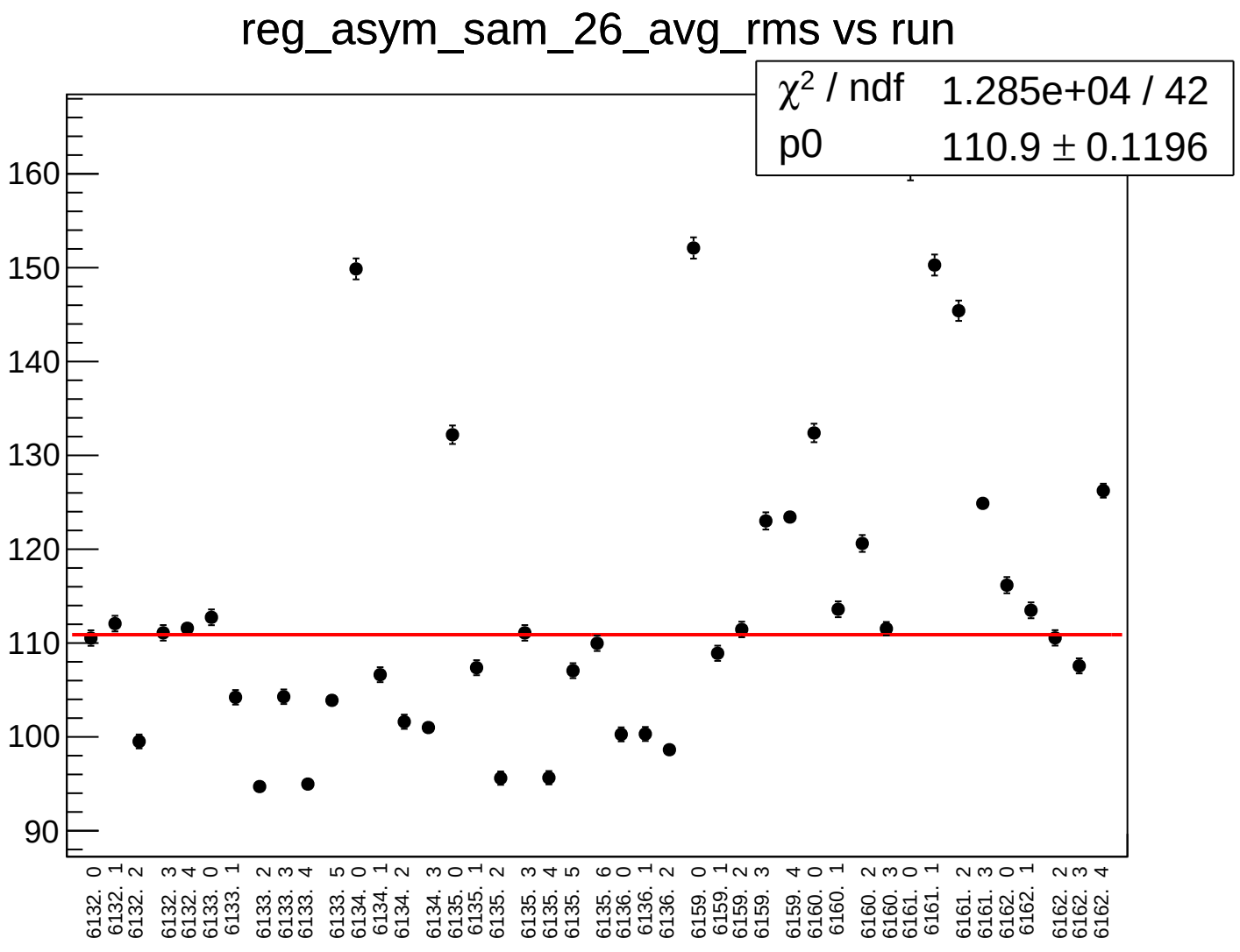

asym_sam_15_avg_correction_mean vs run
χ^2 / ndf 37.03 / 42
p0 558.2 ± 731.2
15000
10000
5000
0
−5000
−10000
−15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 72.91
Std Dev 42.26
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.02227
Std Dev 0.9277
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

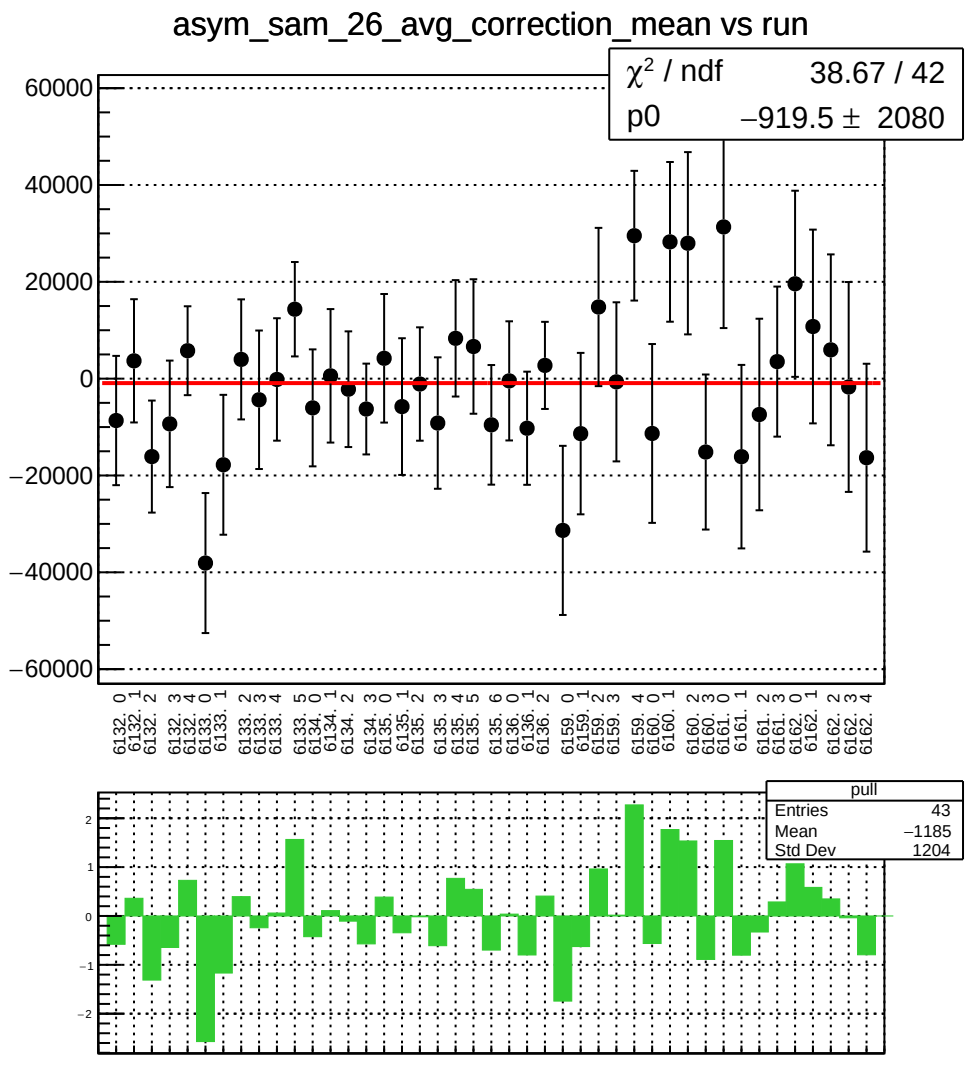

asym_sam_15_avg_correction_rms vs run
χ² / ndf 9552 / 42
p0 480.5 ± 0.5171
650
600
550
500
450
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

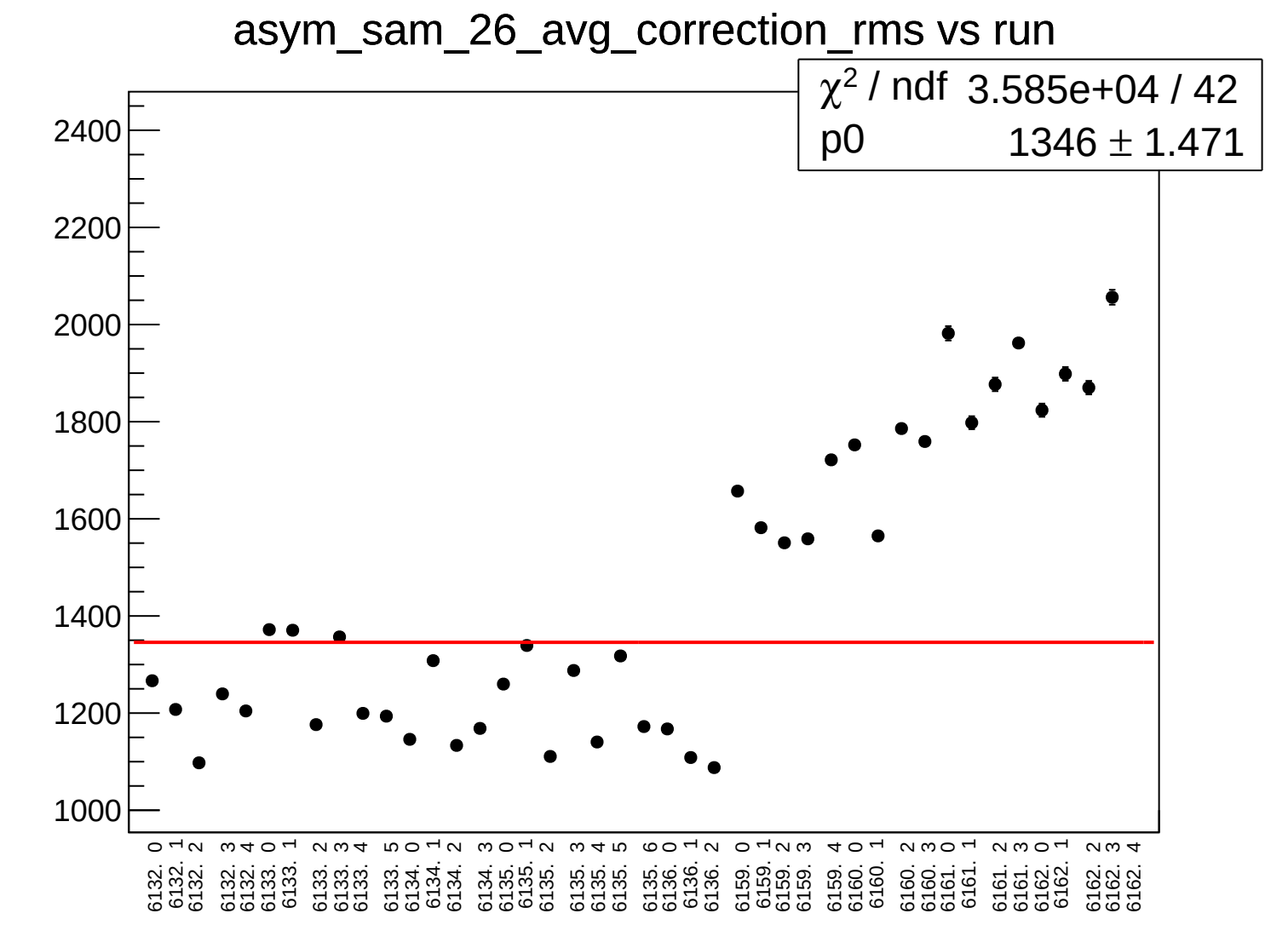

asym_sam_15_avg_mean vs run
χ² / ndf 38.98 / 42
p0 −614.4 ± 736.9
15000
10000
5000
0
−5000
−10000
−15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 57.95
Std Dev 16.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01892
Std Dev 0.9519
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

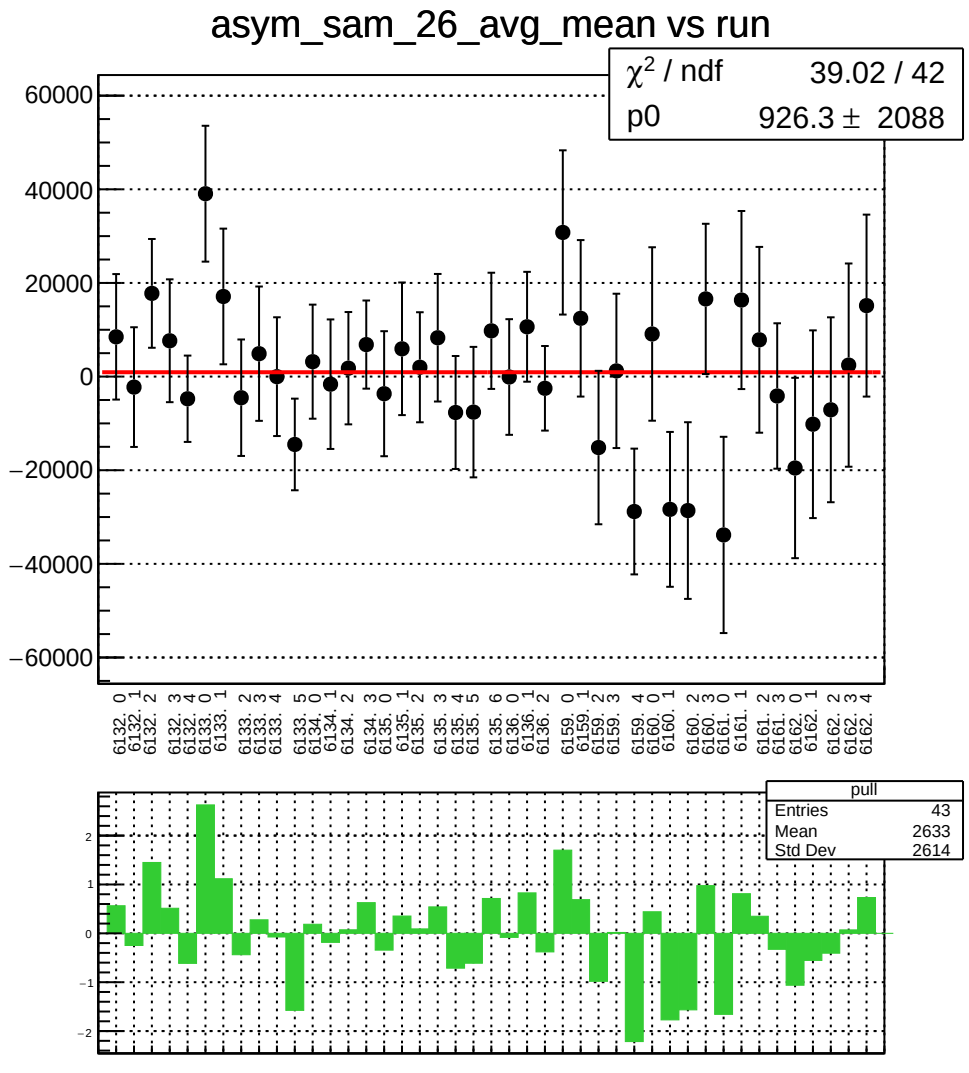

asym_sam_15_avg_rms vs run
χ² / ndf 9289 / 42
p0 484.3 ± 0.5211
650
600
550
500
450
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

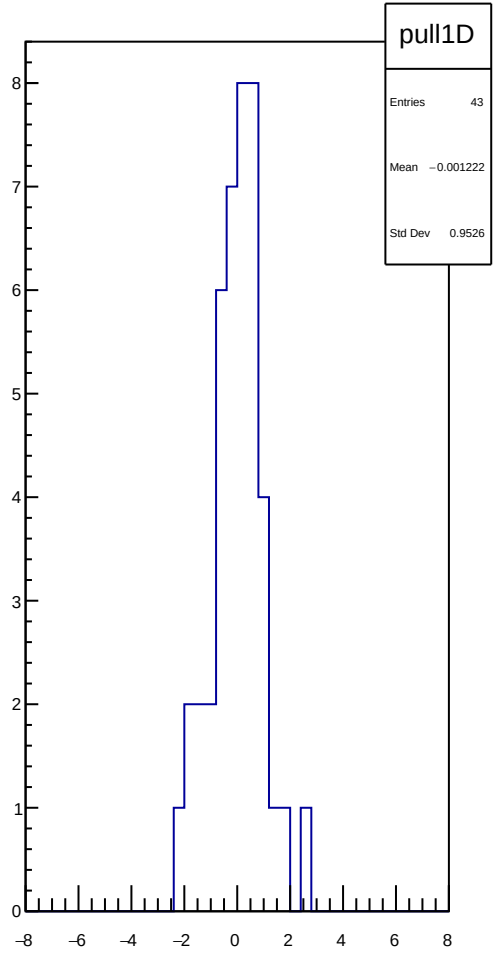

reg_asym_sam_26_avg_mean vs run
χ² / ndf 29.26 / 42
p0 25.15 ± 169.1
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 48.66
Std Dev 26.14
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.05039
Std Dev 0.8234
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

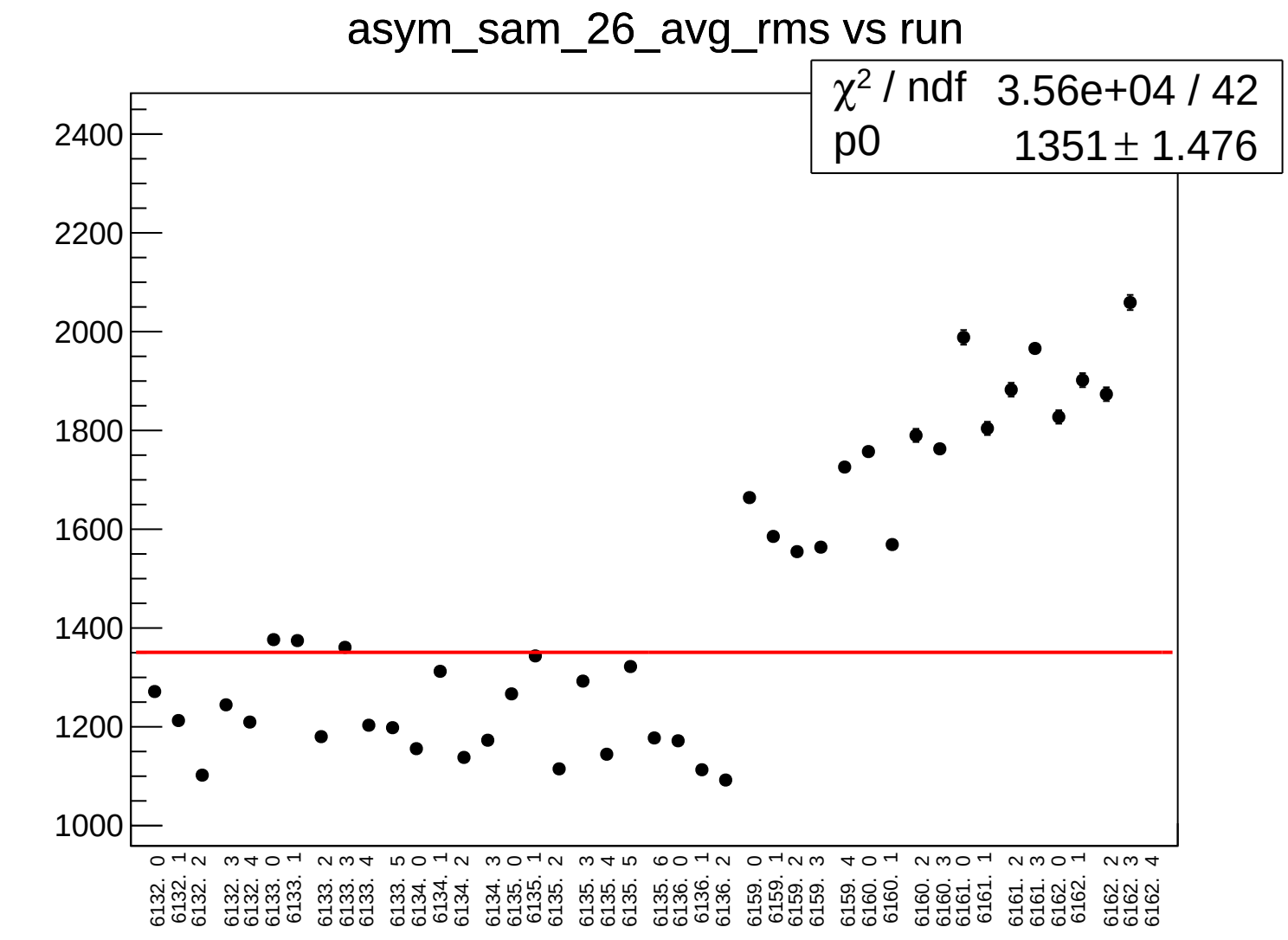

reg_asym_sam_26_avg_rms vs run
χ² / ndf 1.285e+04 / 42
p0 110.9 ± 0.1196
160
150
140
130
120
110
100
90
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

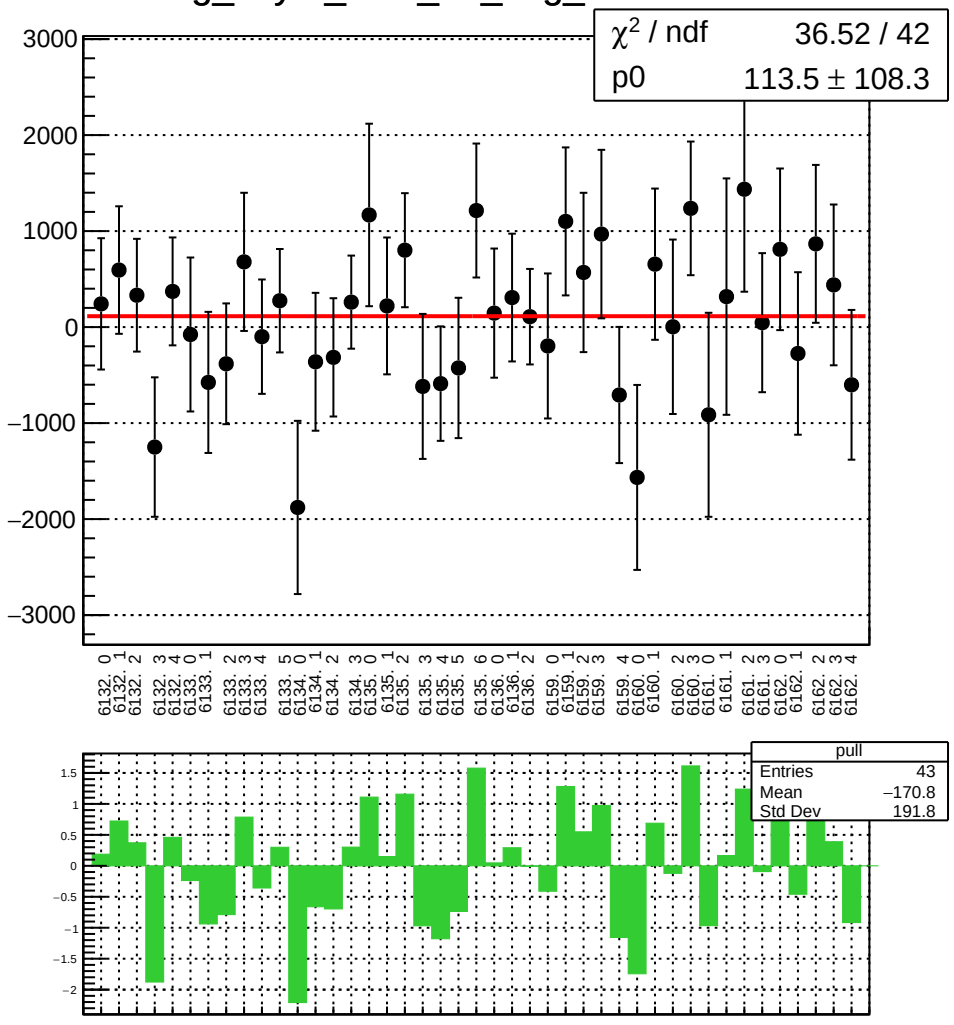

asym_sam_26_avg_correction_mean vs run
χ² / ndf 38.67 / 42
p0 −919.5 ± 2080
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −1185
Std Dev 1204
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.002575
Std Dev 0.9483
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

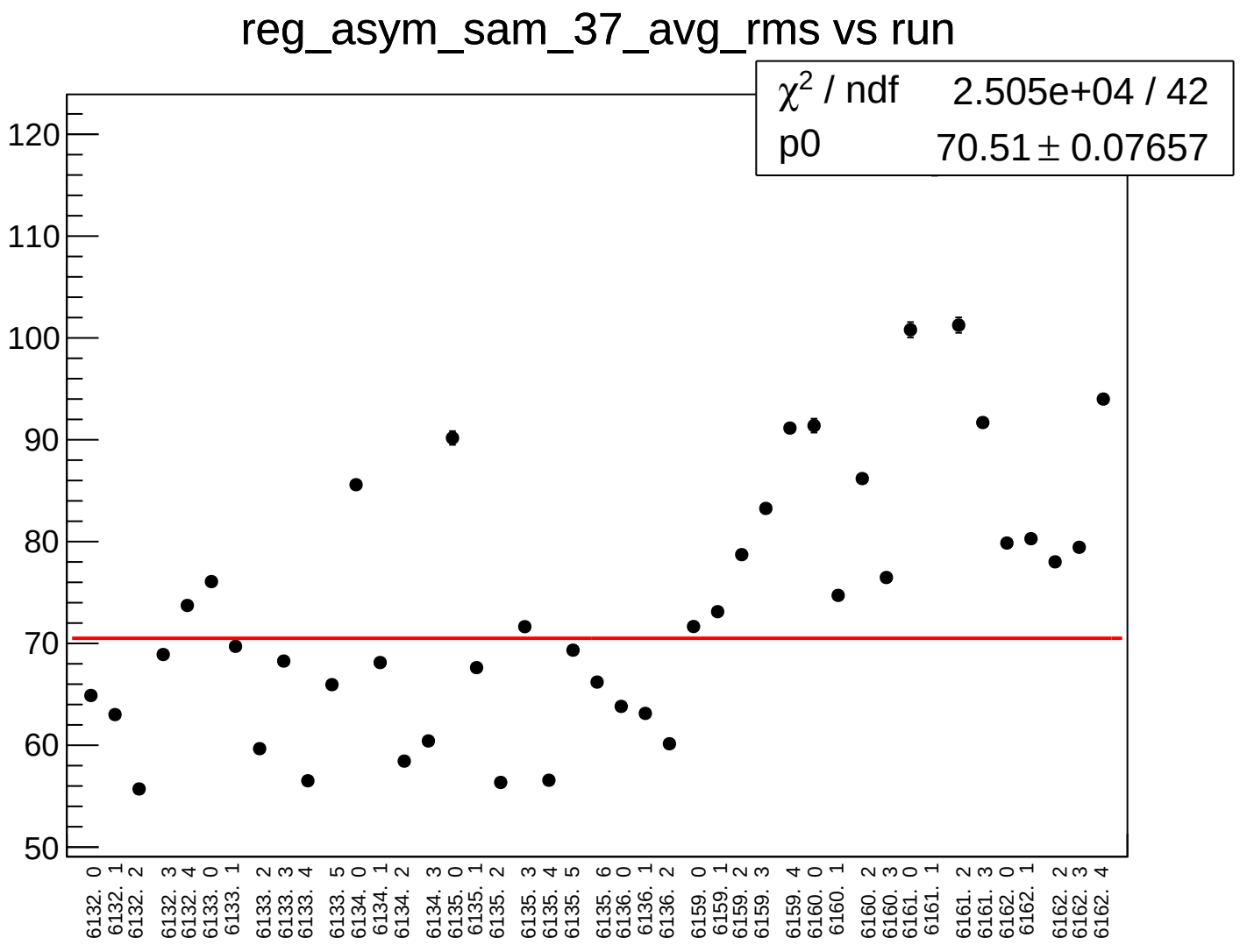

asym_sam_26_avg_correction_rms vs run
χ² / ndf 3.585e+04 / 42
p0 1346 ± 1.471
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

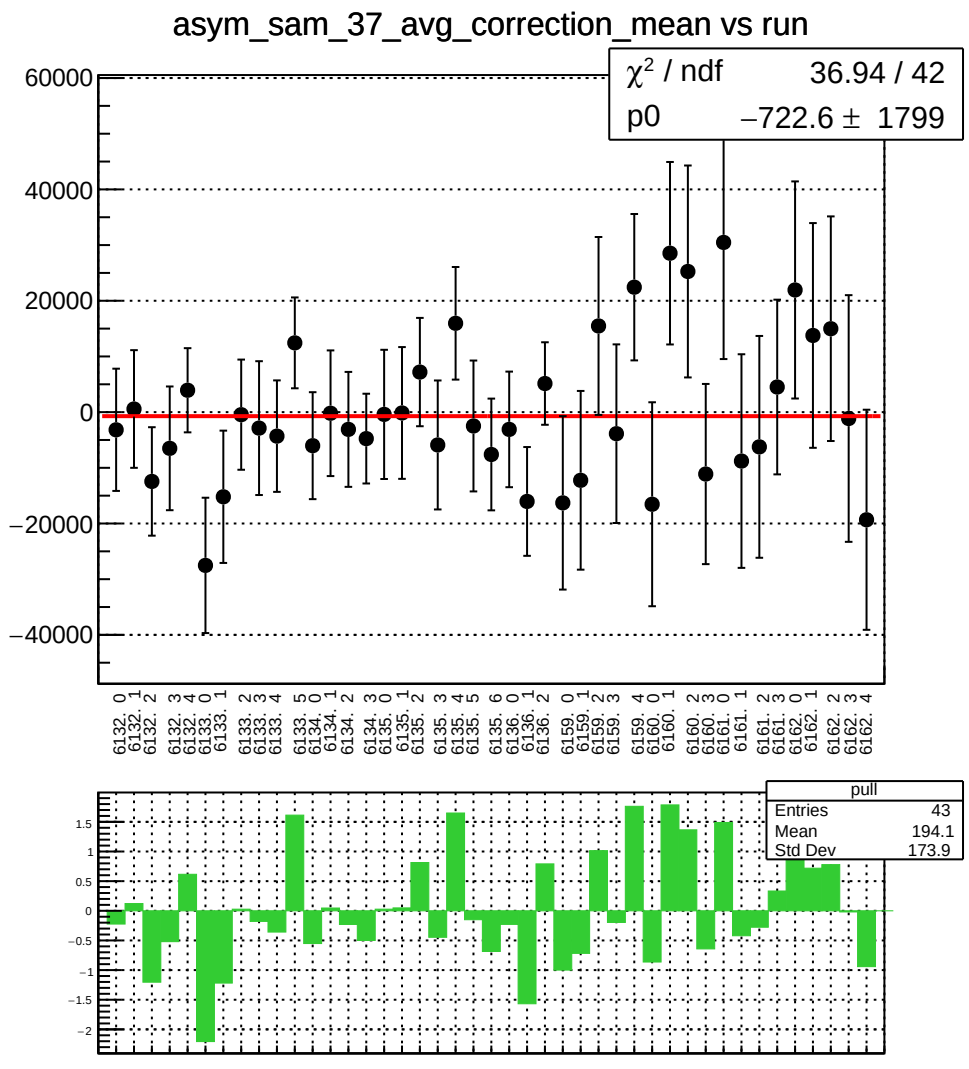

asym_sam_26_avg_mean vs run
χ² / ndf 39.02 / 42
p0 926.3 ± 2088
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 2633
Std Dev 2614
2
1
0
−1
−2

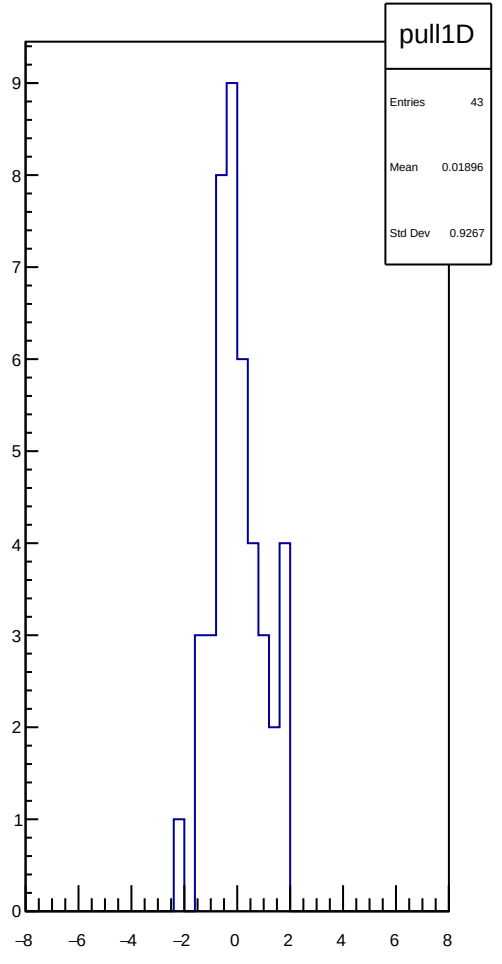

pull1D
Entries 43
Mean −0.001222
Std Dev 0.9526
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

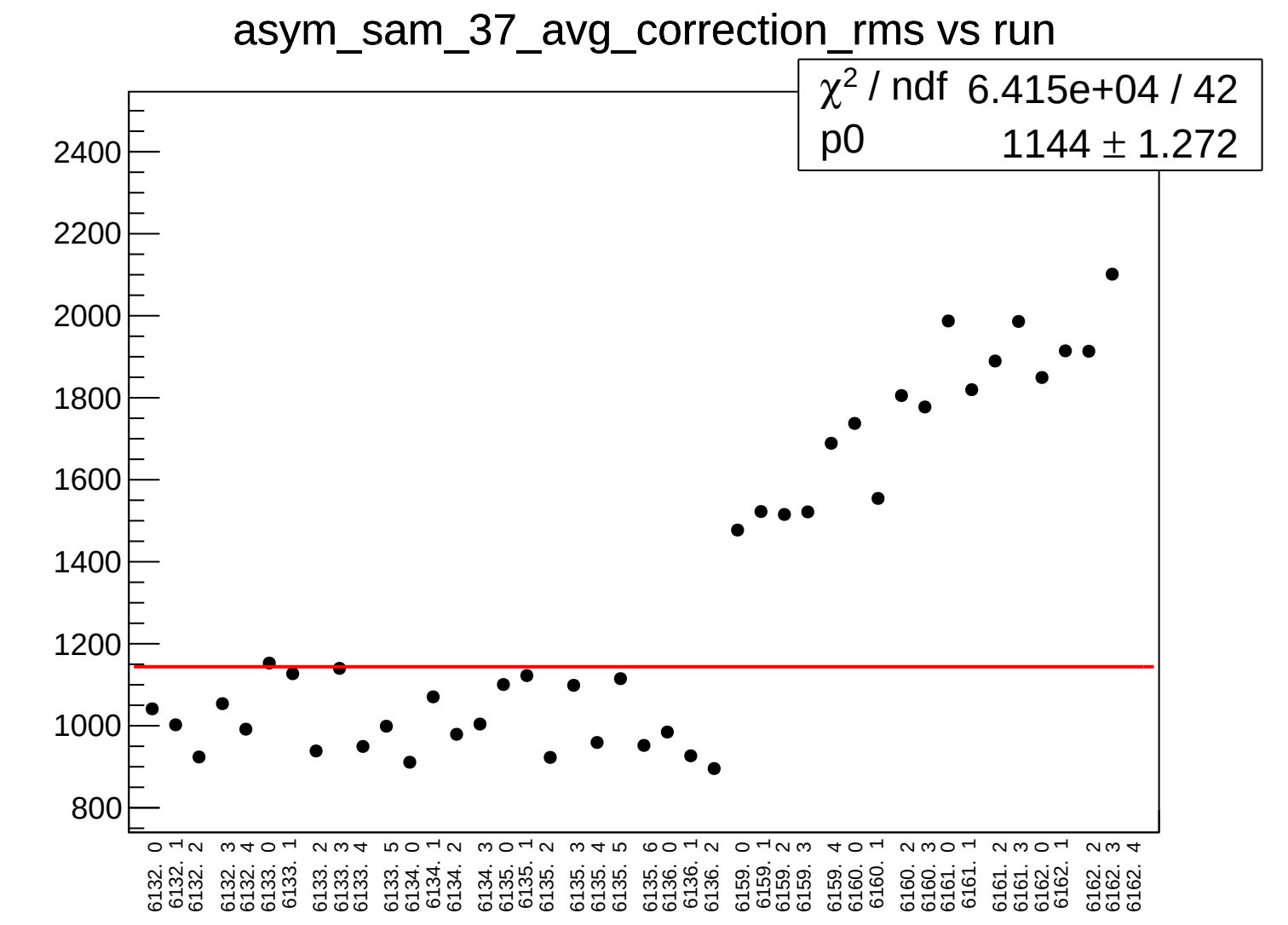

asym_sam_26_avg_rms vs run
χ² / ndf 3.56e+04 / 42
p0 1351 ± 1.476
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

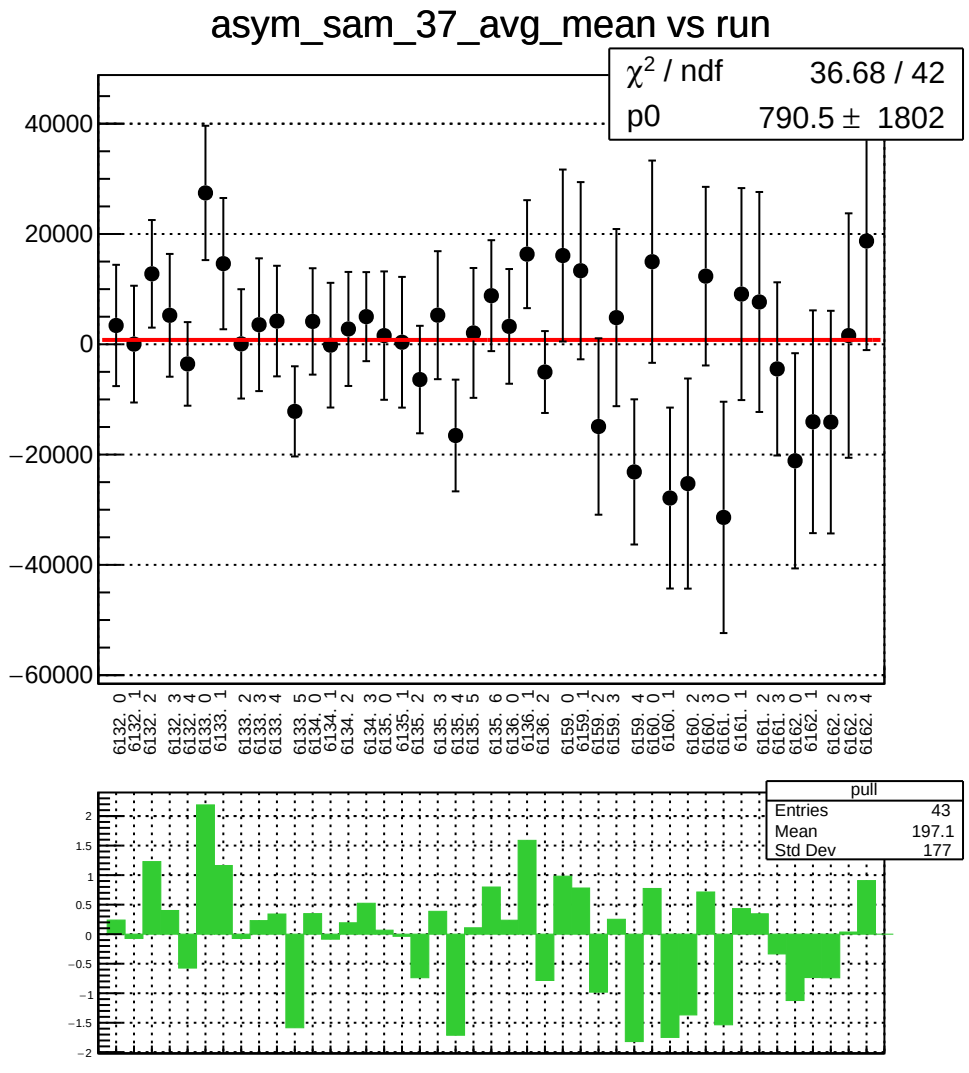

reg_asym_sam_37_avg_mean vs run
χ² / ndf 36.52 / 42
p0 113.5 ± 108.3
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −170.8
Std Dev 191.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.009638
Std Dev 0.9215
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

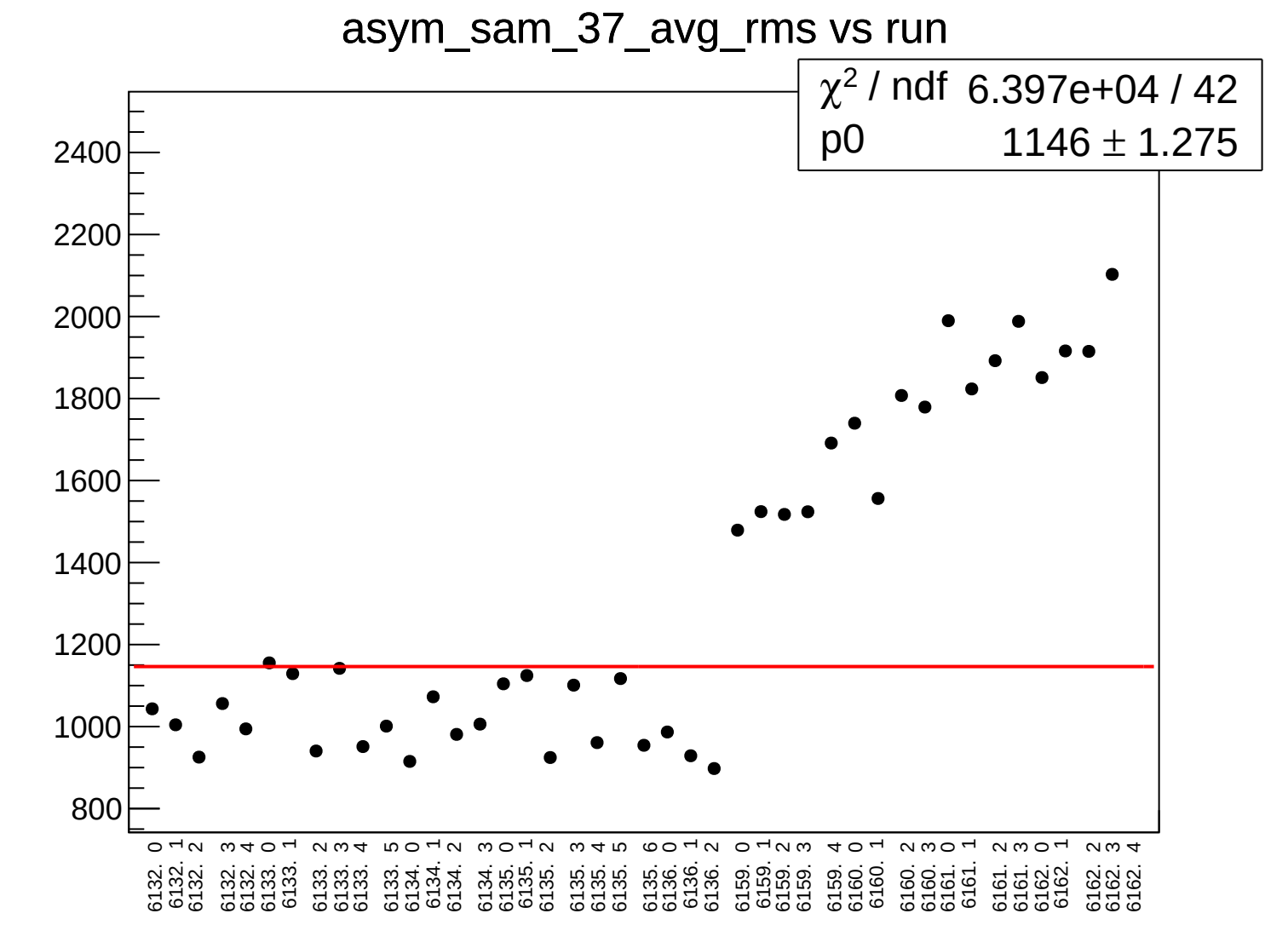

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 2.505e+04 / 42
p0 70.51 ± 0.07657
120
110
100
90
80
70
60
50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

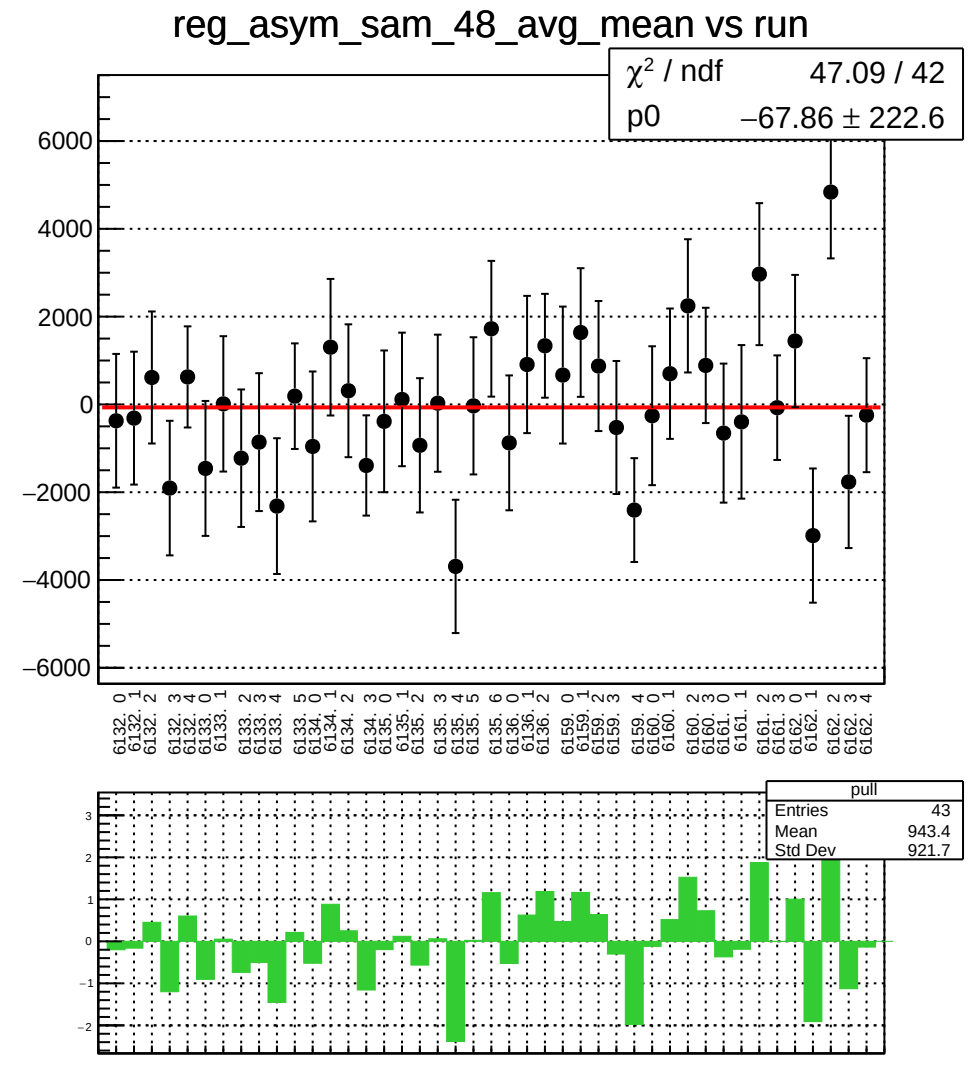

asym_sam_37_avg_correction_mean vs run
χ² / ndf 36.94 / 42
p0 −722.6 ± 1799
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 194.1
Std Dev 173.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

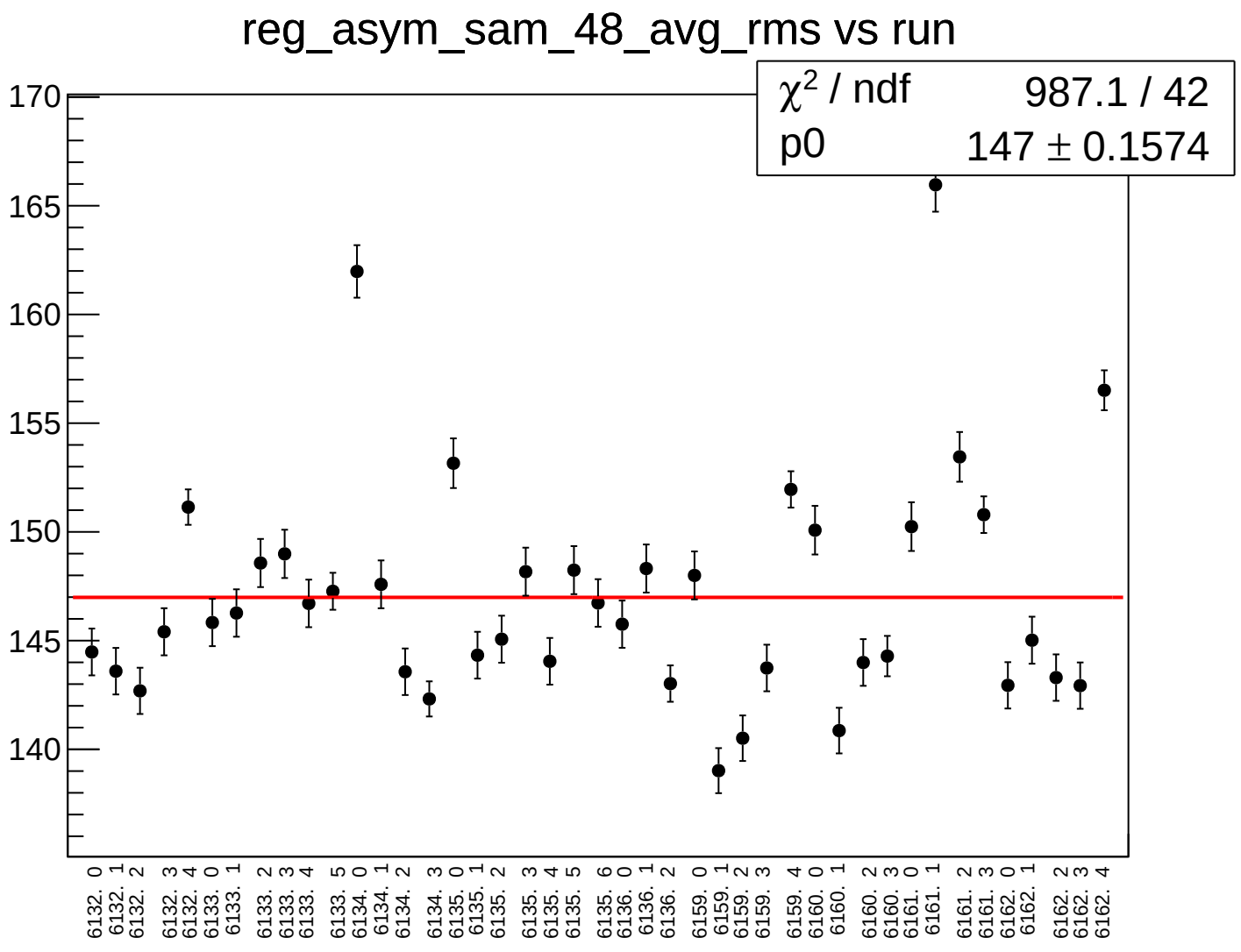

pull1D
Entries 43
Mean 0.01896
Std Dev 0.9267
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

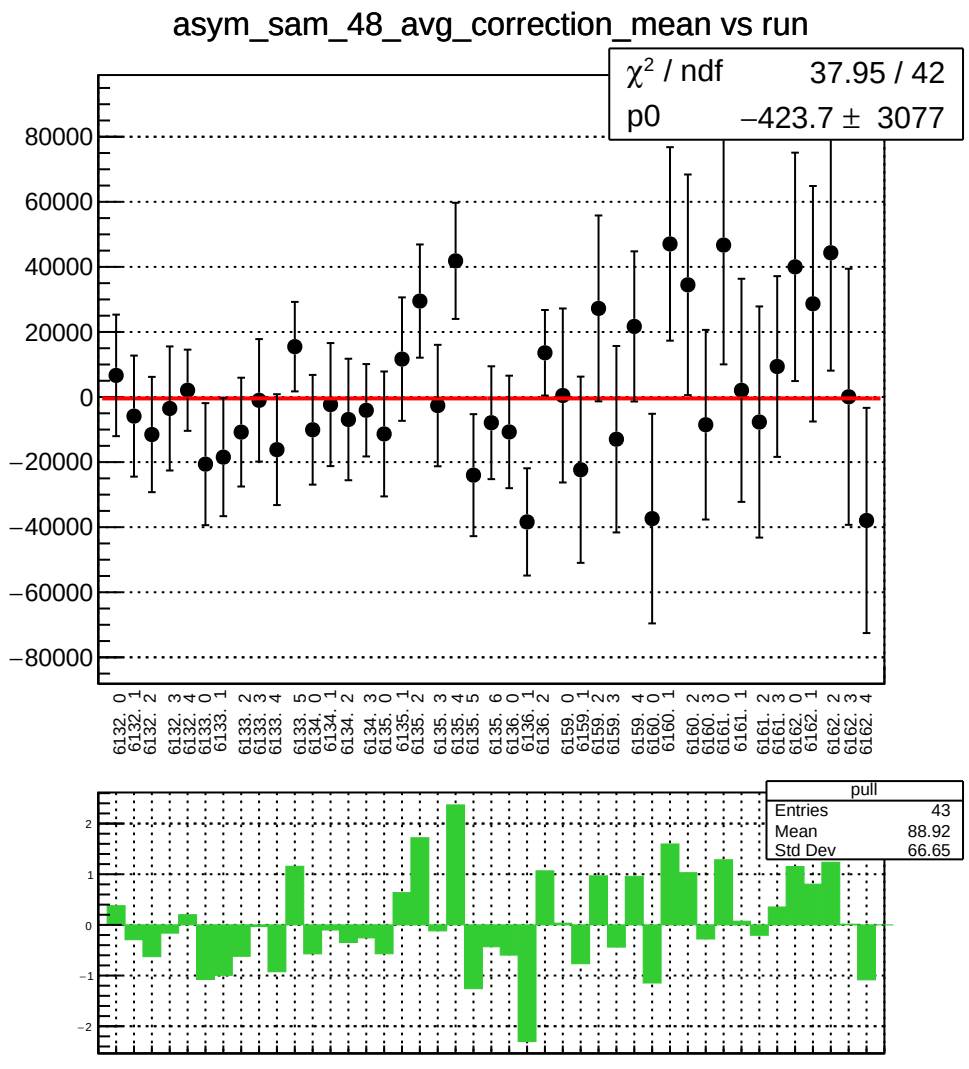

asym_sam_37_avg_correction_rms vs run
χ² / ndf 6.415e+04 / 42
p0 1144 ± 1.272
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

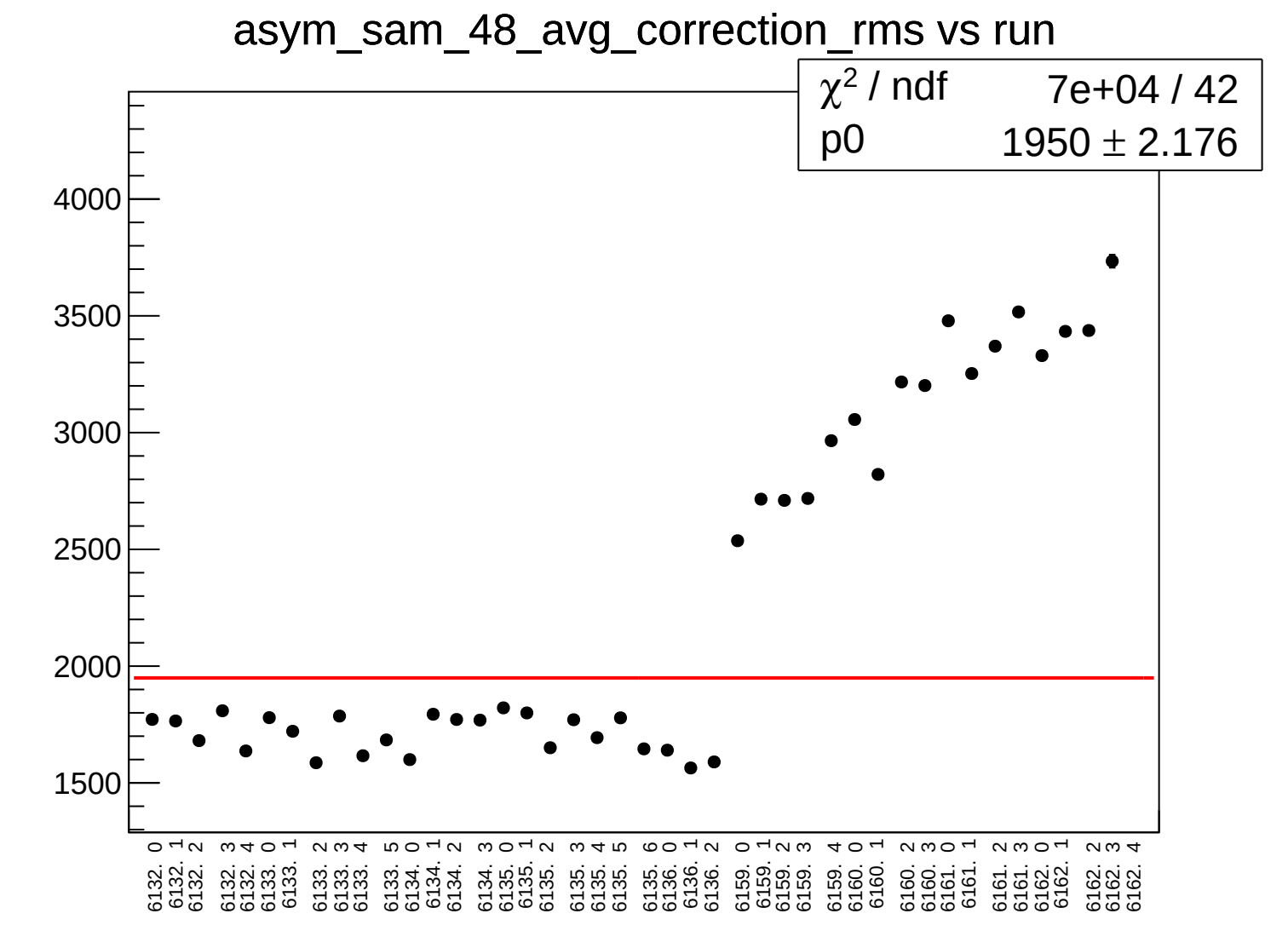

asym_sam_37_avg_mean vs run
χ² / ndf 36.68 / 42
p0 790.5 ± 1802
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 197.1
Std Dev 177
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.018
Std Dev 0.9234
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

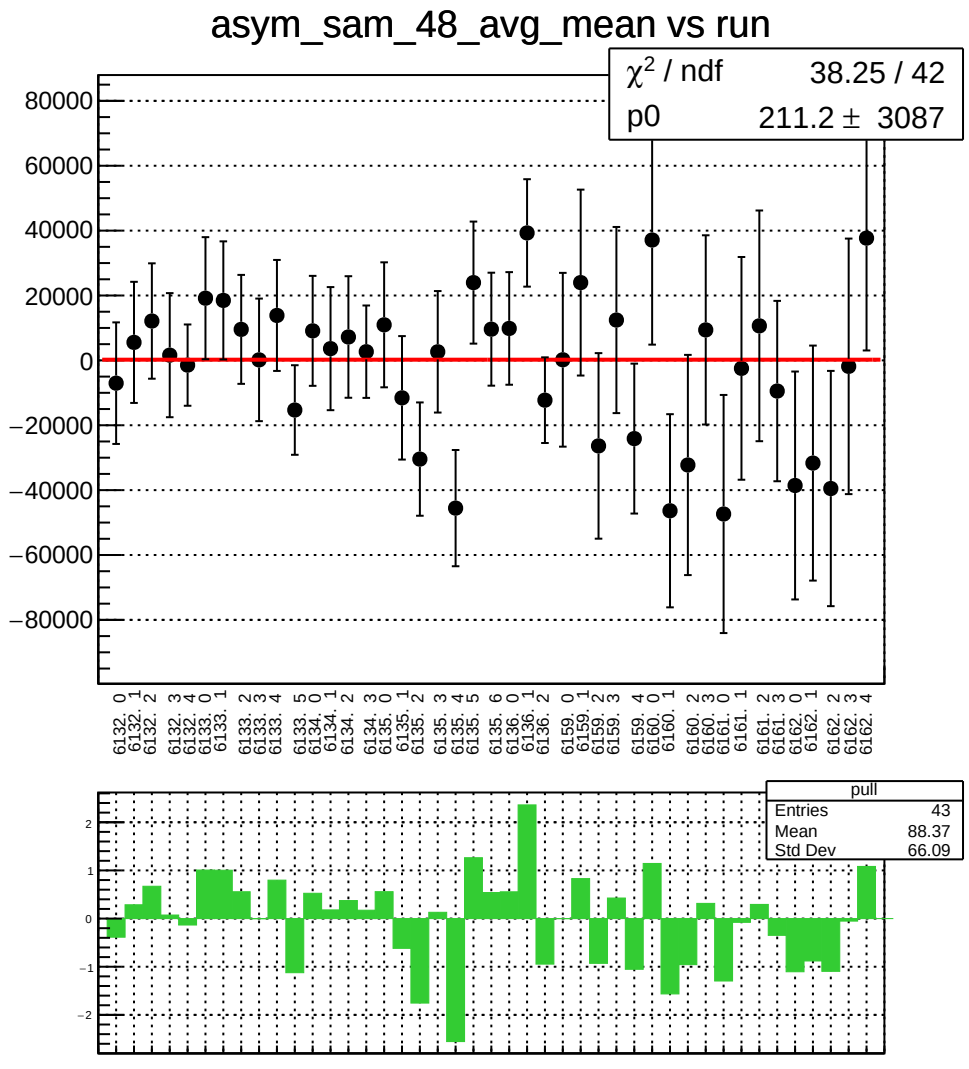

asym_sam_37_avg_rms vs run
χ² / ndf 6.397e+04 / 42
p0 1146 ± 1.275
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

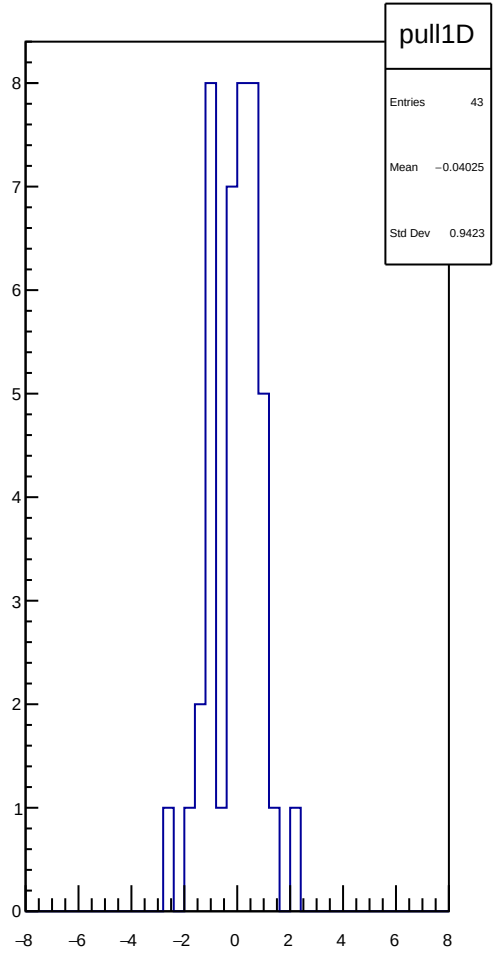

reg_asym_sam_48_avg_mean vs run
χ² / ndf 47.09 / 42
p0 −67.86 ± 222.6
6000
4000
2000
0
−2000
−4000
−6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 943.4
Std Dev 921.7
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.003373
Std Dev 1.047
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

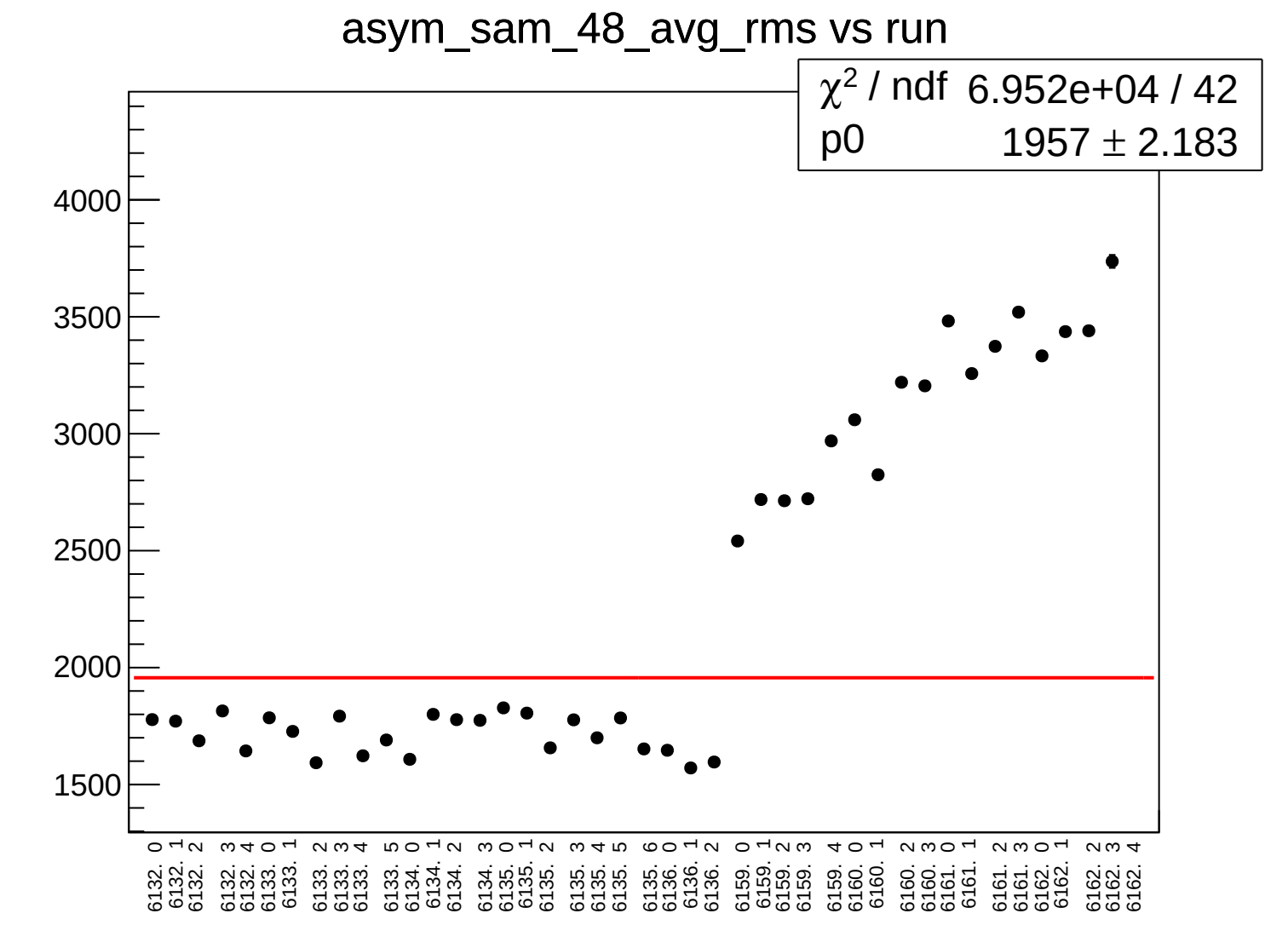

reg_asym_sam_48_avg_rms vs run
χ² / ndf 987.1 / 42
p0 147 ± 0.1574
170
165
160
155
150
145
140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

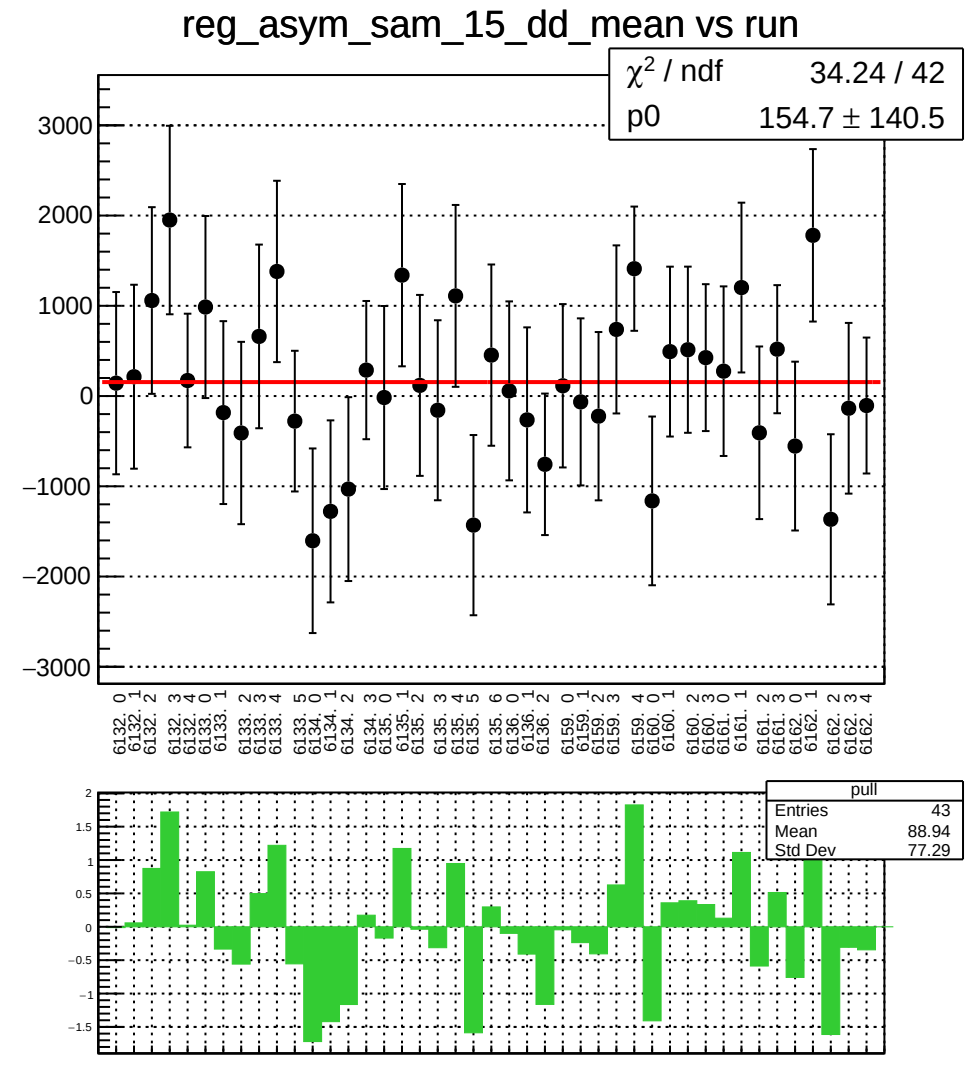

asym_sam_48_avg_correction_mean vs run
χ² / ndf 37.95 / 42
p0 −423.7 ± 3077
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 88.92
Std Dev 66.65
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.04278
Std Dev 0.9385
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

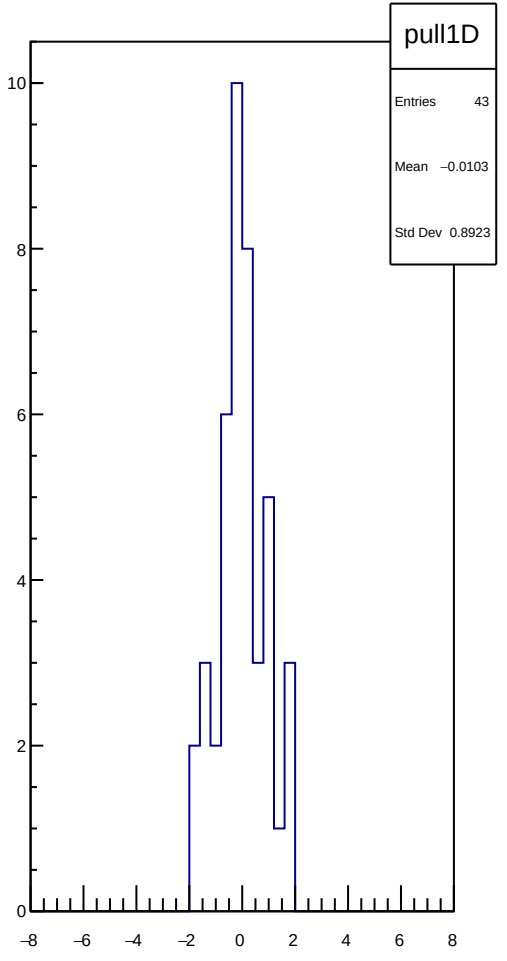

asym_sam_48_avg_correction_rms vs run
χ² / ndf 7e+04 / 42
p0 1950 ± 2.176
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

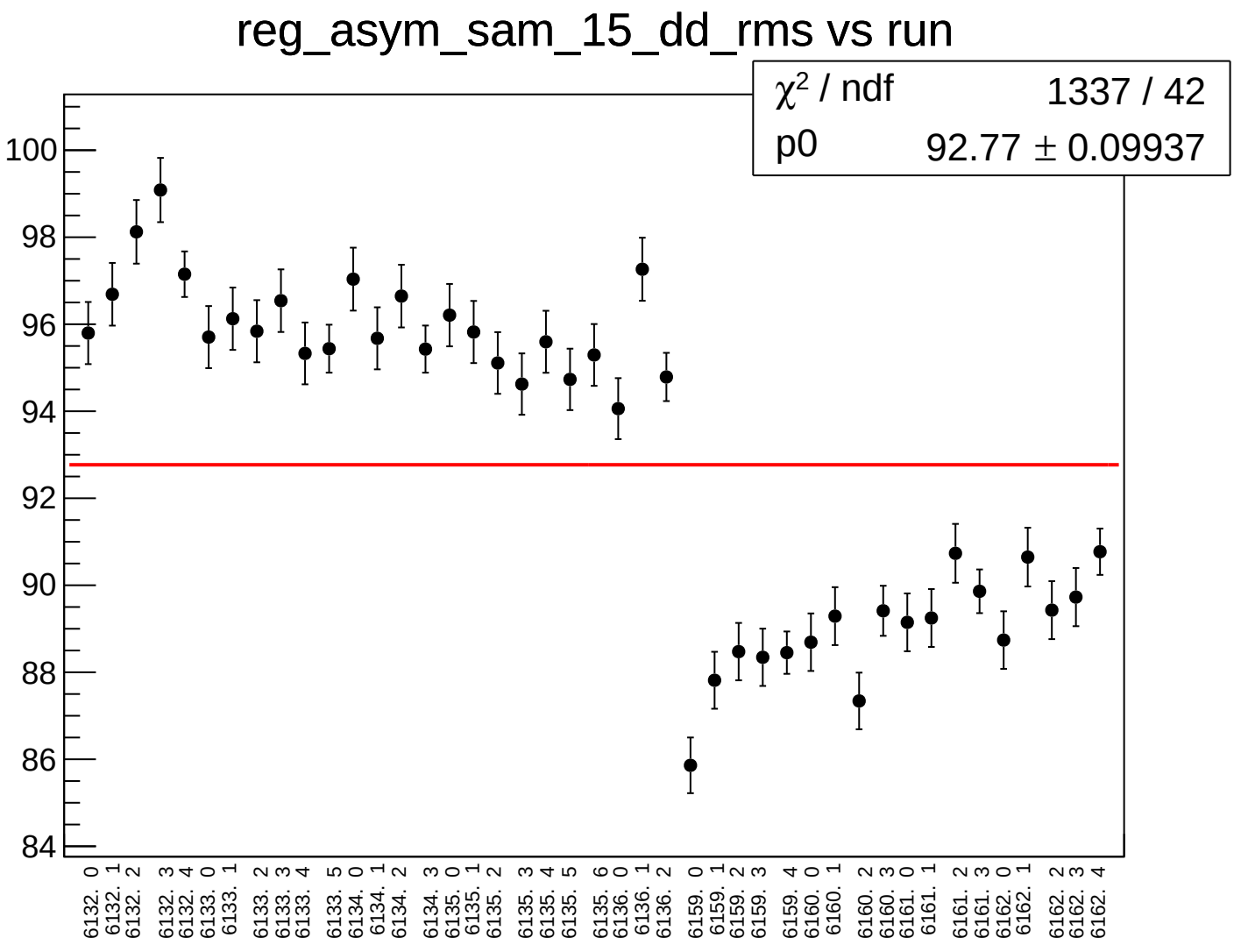

asym_sam_48_avg_mean vs run
χ² / ndf 38.25 / 42
p0 211.2 ± 3087
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 88.37
Std Dev 66.09
2
1
0
−1
−2

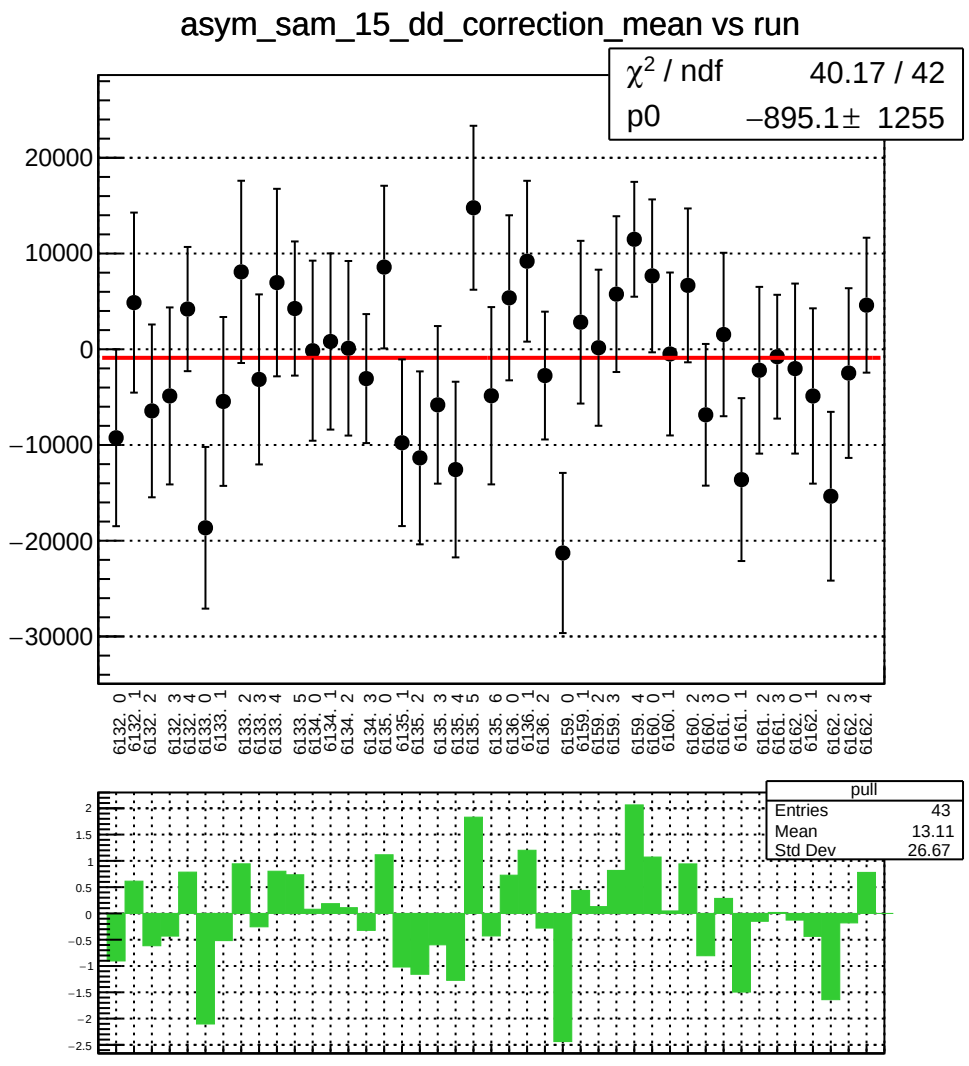

pull1D
Entries 43
Mean −0.04025
Std Dev 0.9423
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

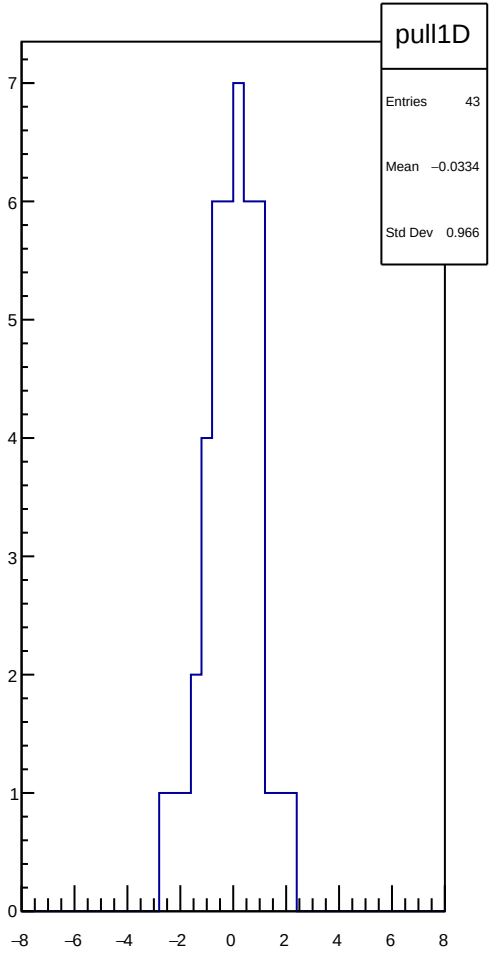

asym_sam_48_avg_rms vs run
χ² / ndf 6.952e+04 / 42
p0 1957 ± 2.183
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

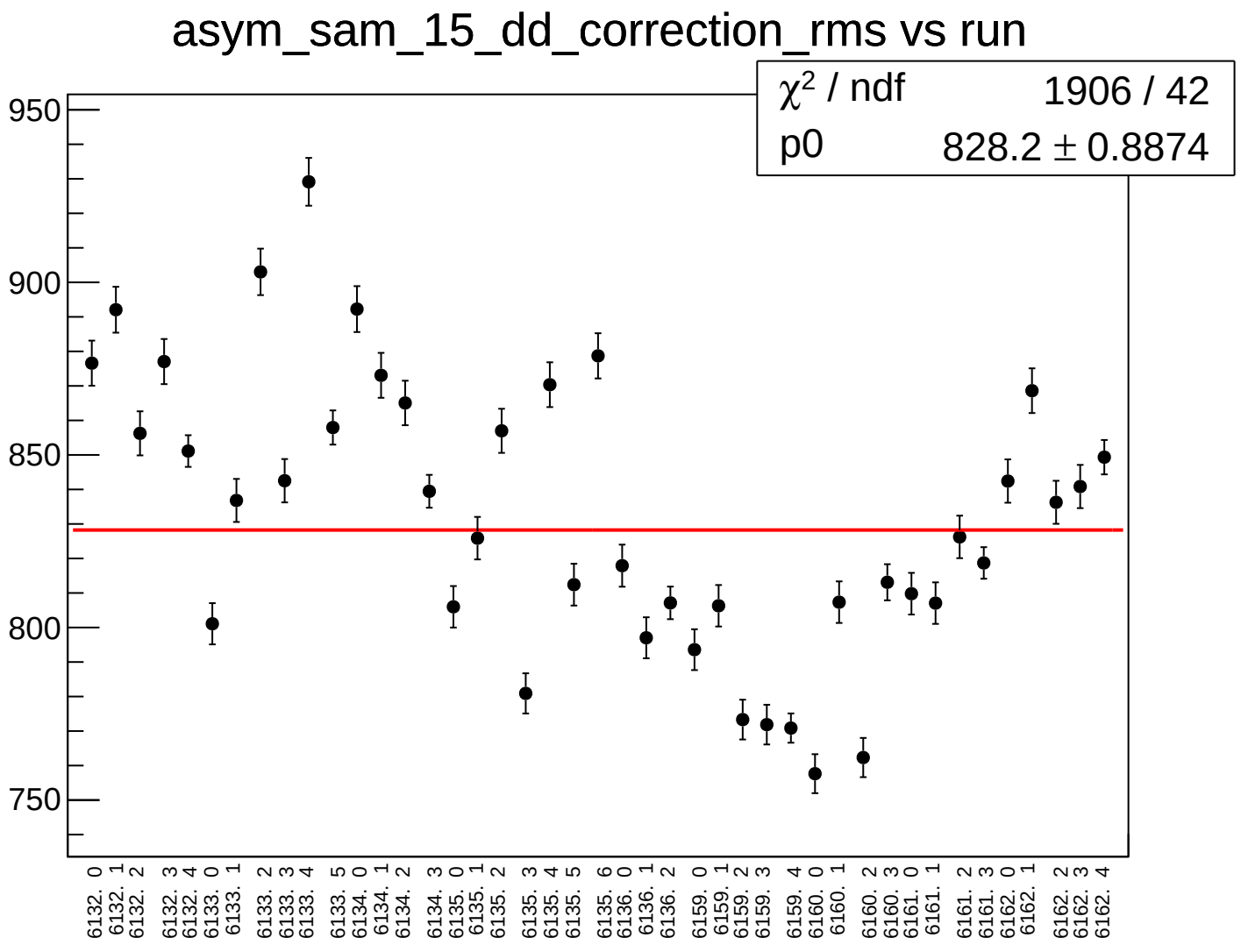

reg_asym_sam_15_dd_mean vs run
χ² / ndf 34.24 / 42
p0 154.7 ± 140.5
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 88.94
Std Dev 77.29
2
1.5
1
0.5
0
−0.5
−1
−1.5

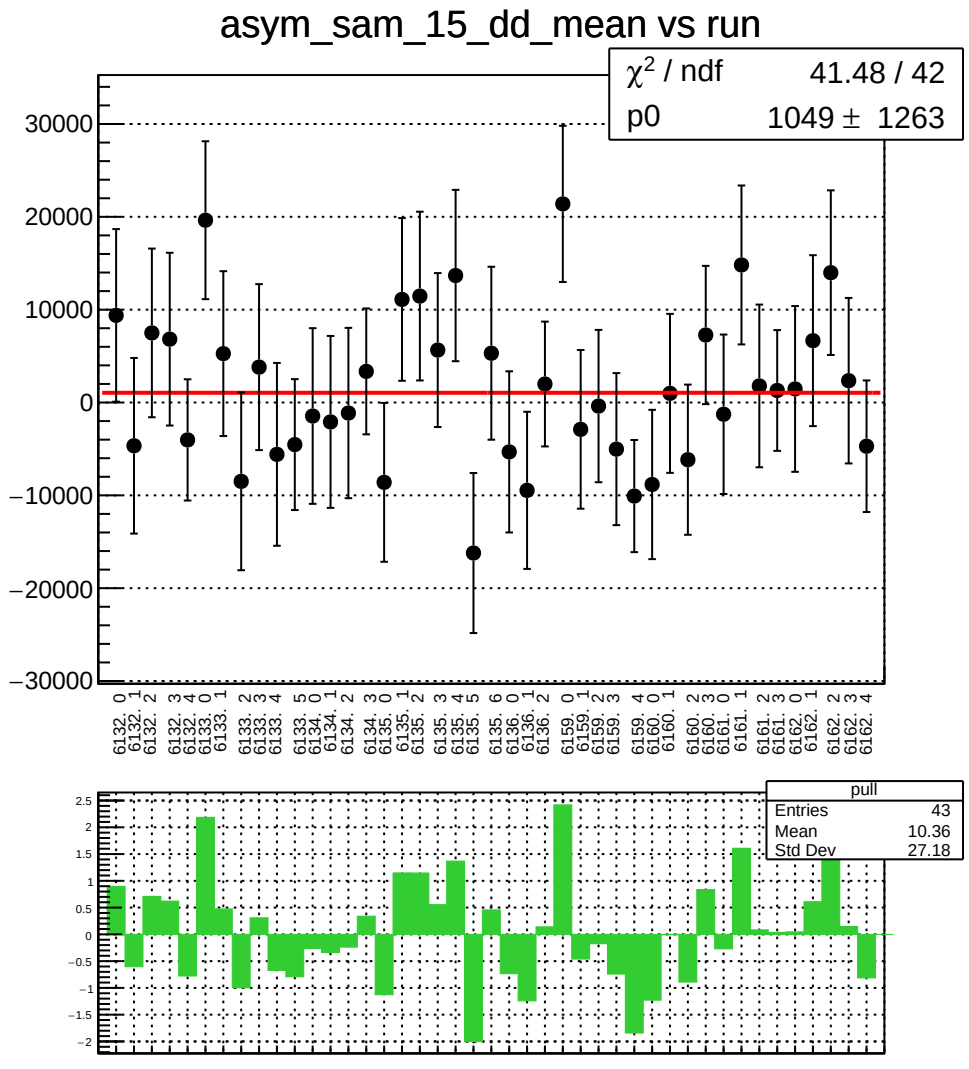

pull1D
Entries 43
Mean −0.0103
Std Dev 0.8923
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

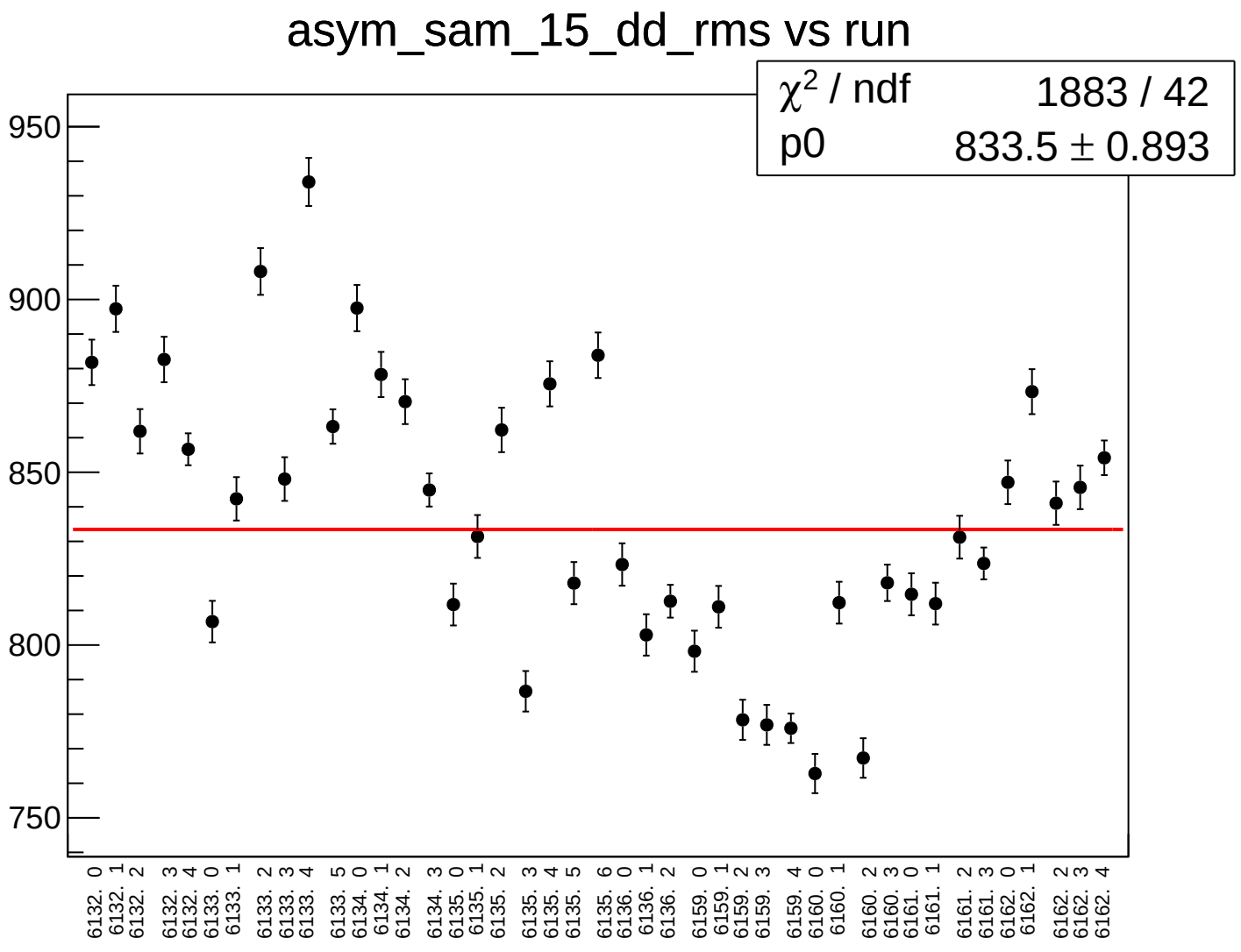

reg_asym_sam_15_dd_rms vs run
χ² / ndf 1337 / 42
p0 92.77 ± 0.09937
100
98
96
94
92
90
88
86
84
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

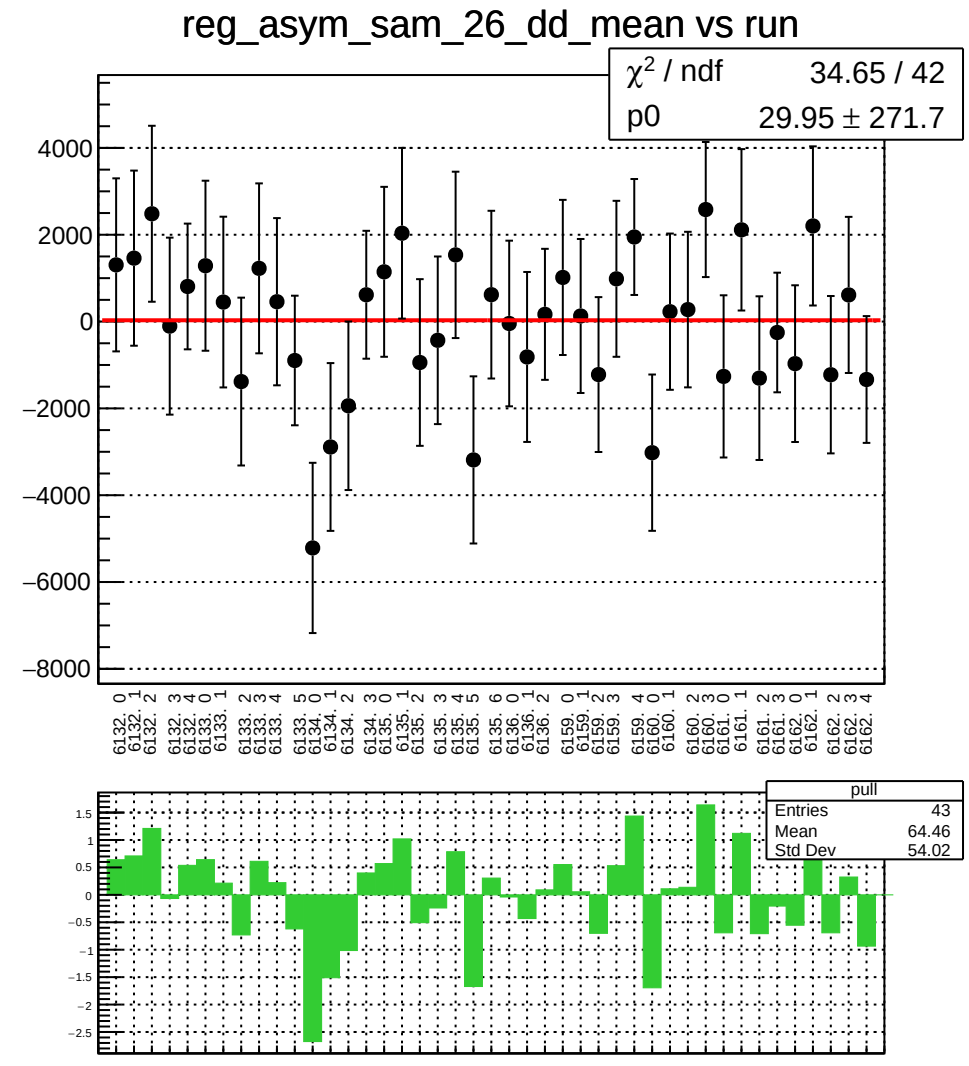

asym_sam_15_dd_correction_mean vs run
χ² / ndf 40.17 / 42
p0 −895.1± 1255
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 13.11
Std Dev 26.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

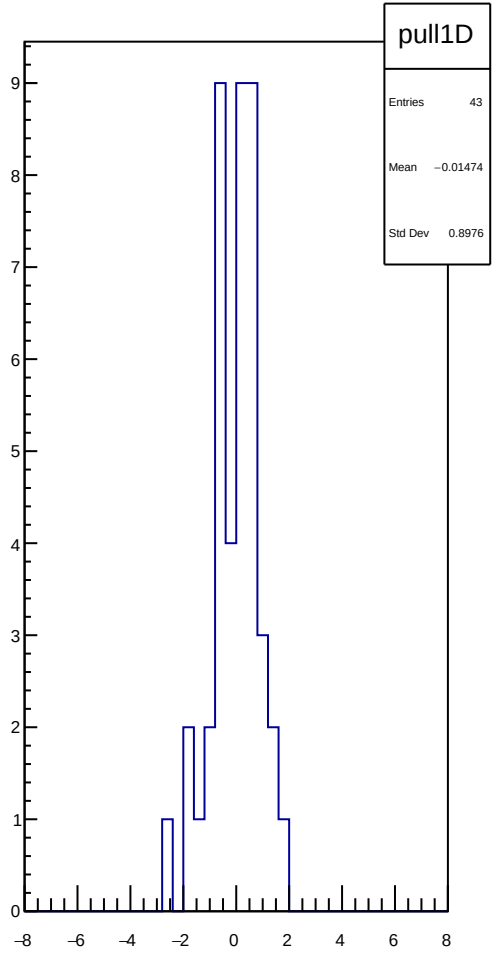

pull1D
Entries 43
Mean −0.0334
Std Dev 0.966
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

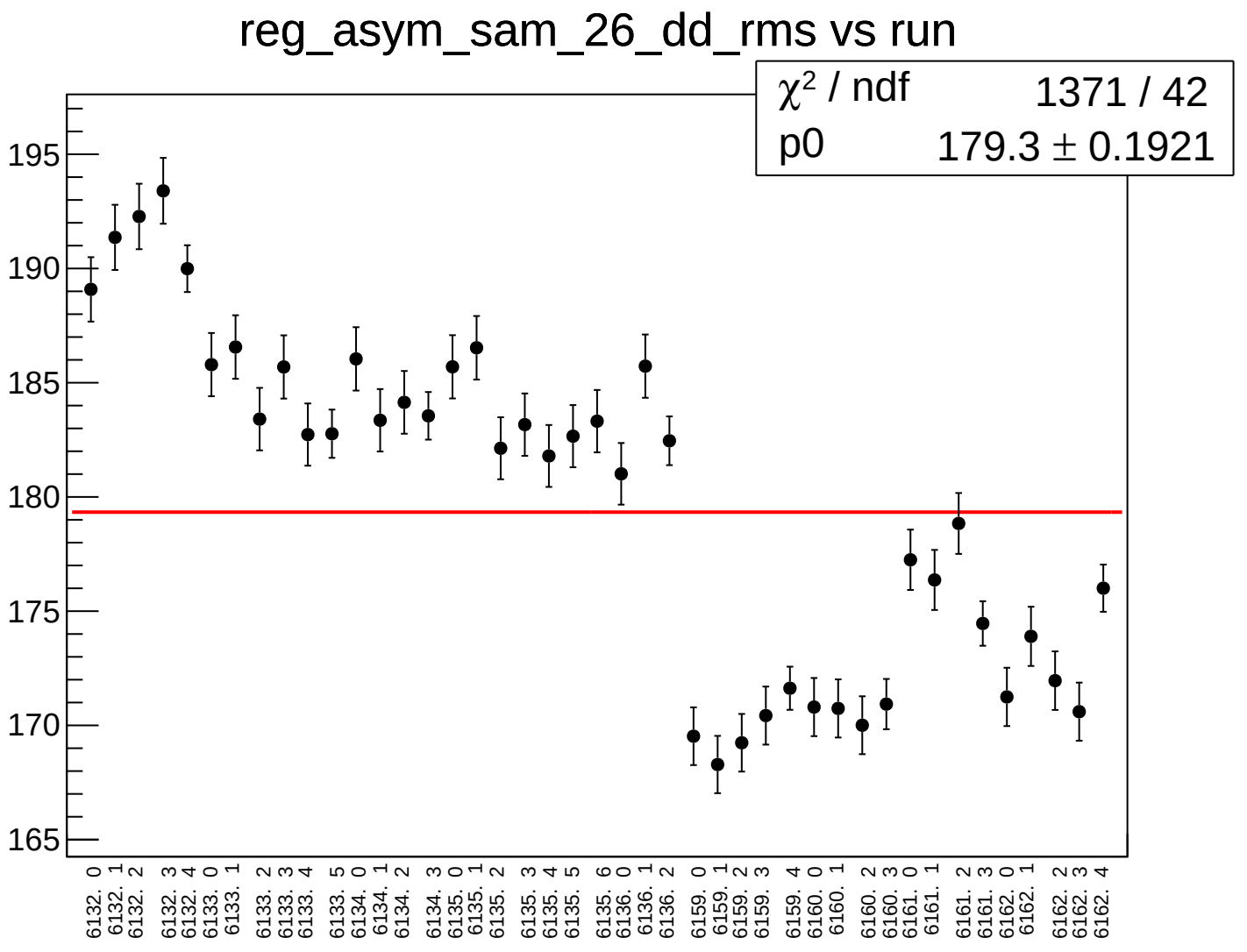

asym_sam_15_dd_correction_rms vs run
χ² / ndf 1906 / 42
p0 828.2 ± 0.8874
950
900
850
800
750
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_15_dd_mean vs run
χ^2 / ndf 41.48 / 42
p0 1049 ± 1263
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 10.36
Std Dev 27.18
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.03208
Std Dev 0.9816
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 1883 / 42
p0 833.5 ± 0.893
950
900
850
800
750
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_sam_26_dd_mean vs run
χ² / ndf 34.65 / 42
p0 29.95 ± 271.7
4000
2000
0
−2000
−4000
−6000
−8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 64.46
Std Dev 54.02
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 43
Mean −0.01474
Std Dev 0.8976
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_26_dd_rms vs run
χ² / ndf 1371 / 42
p0 179.3 ± 0.1921
195
190
185
180
175
170
165
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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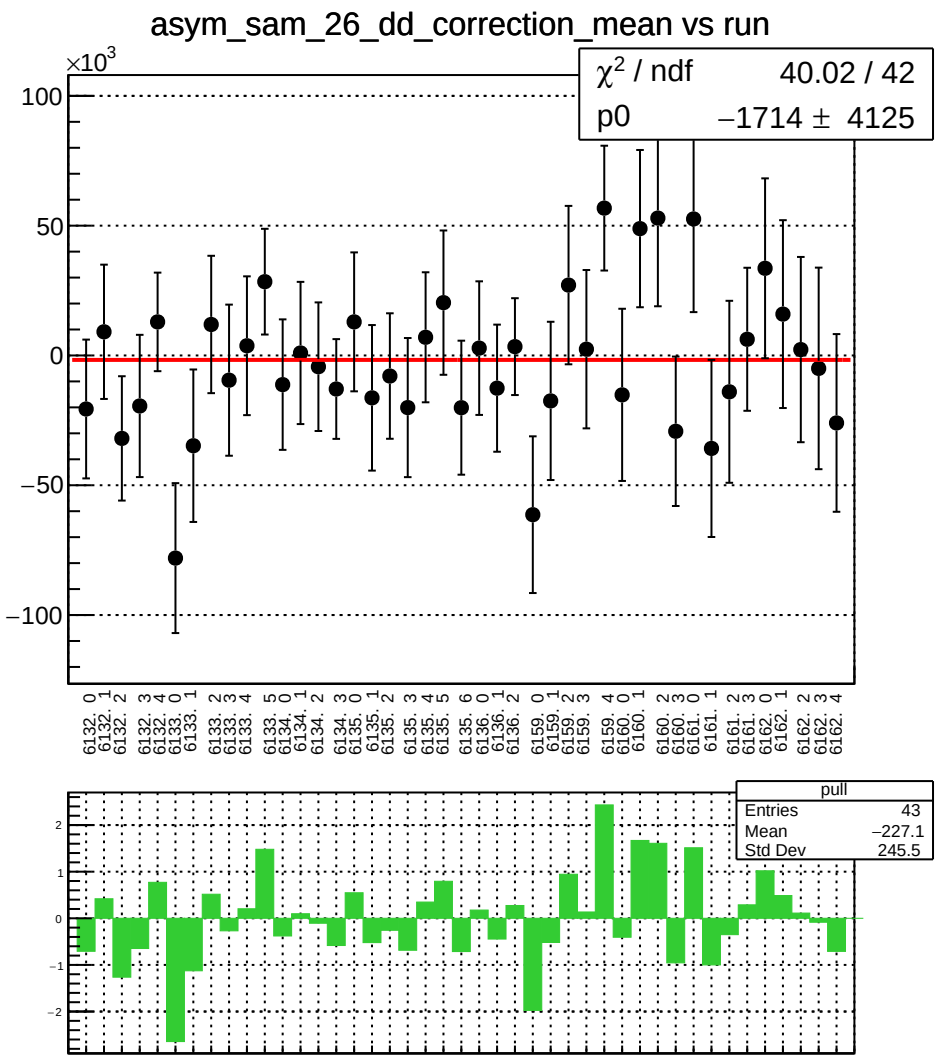
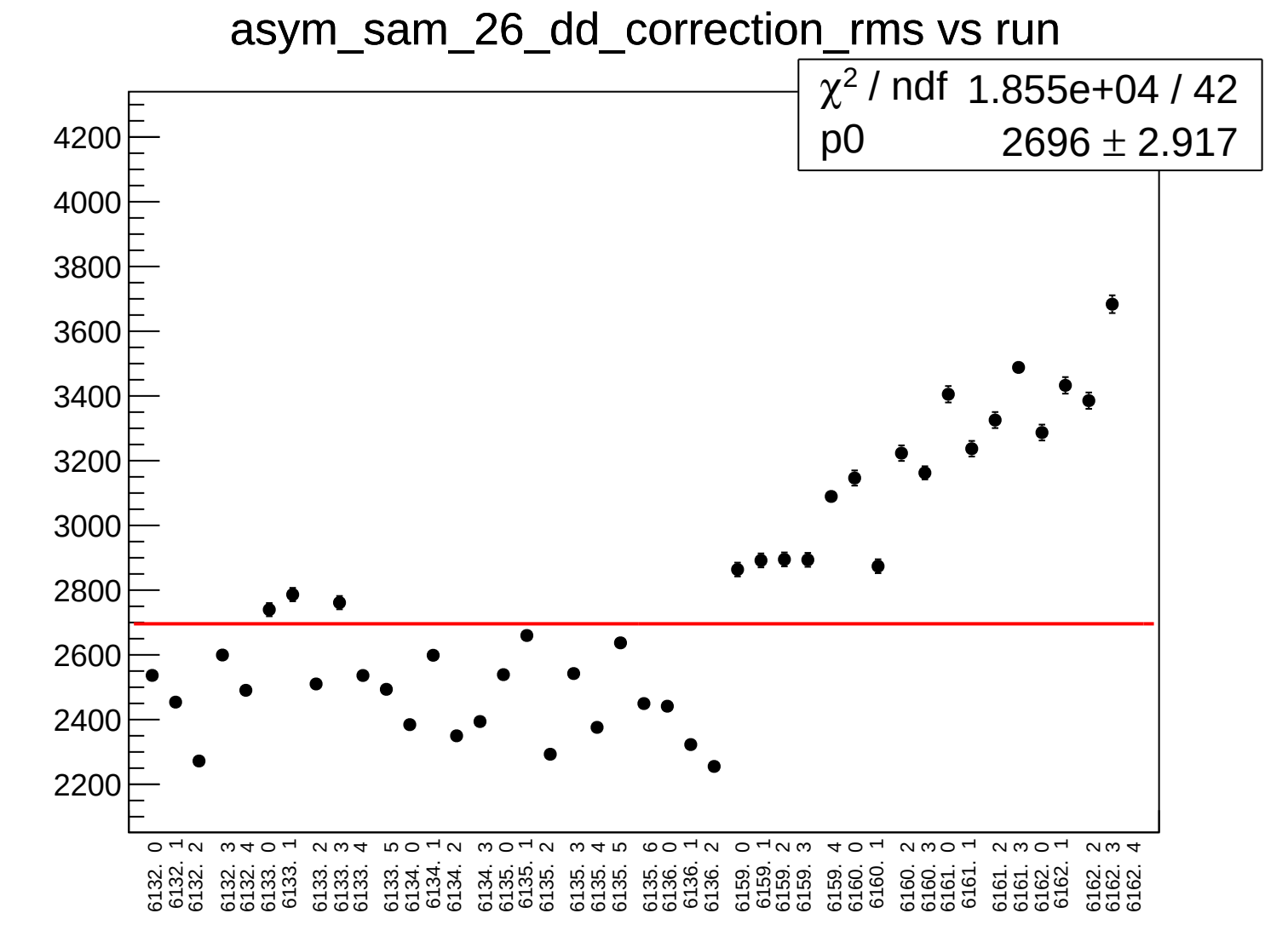
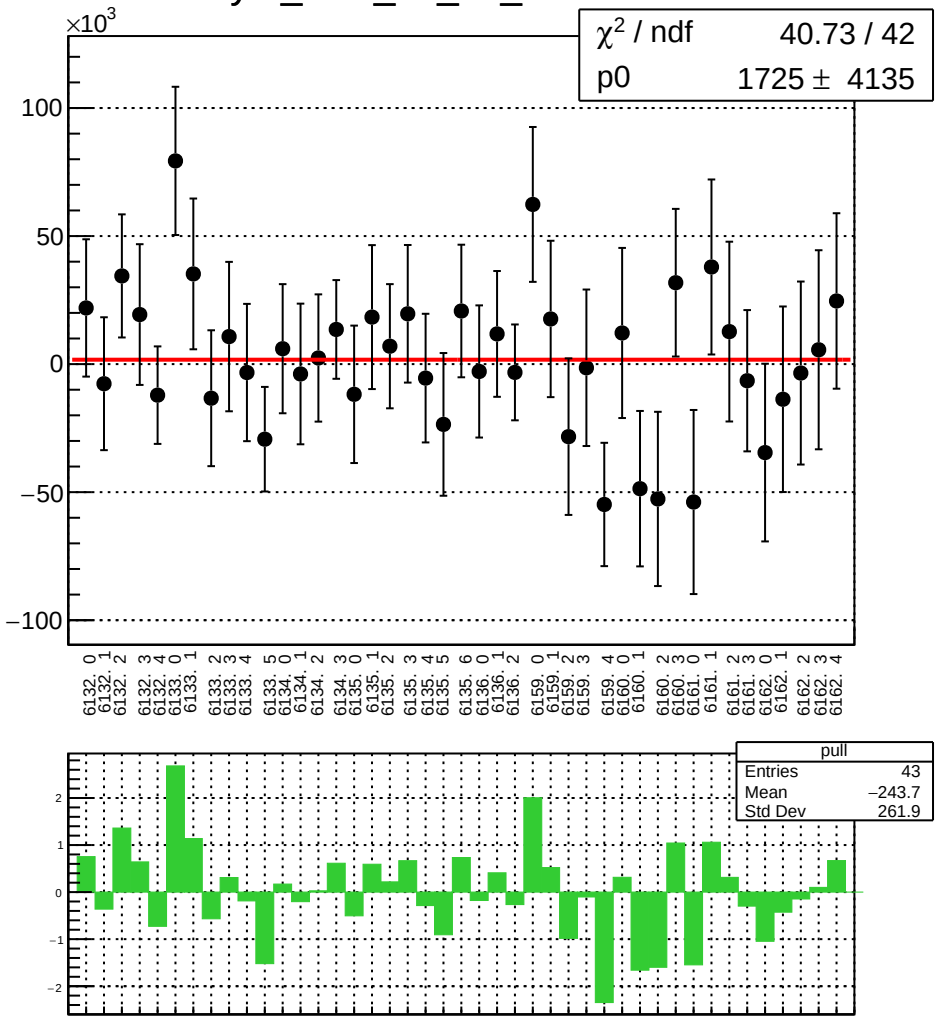
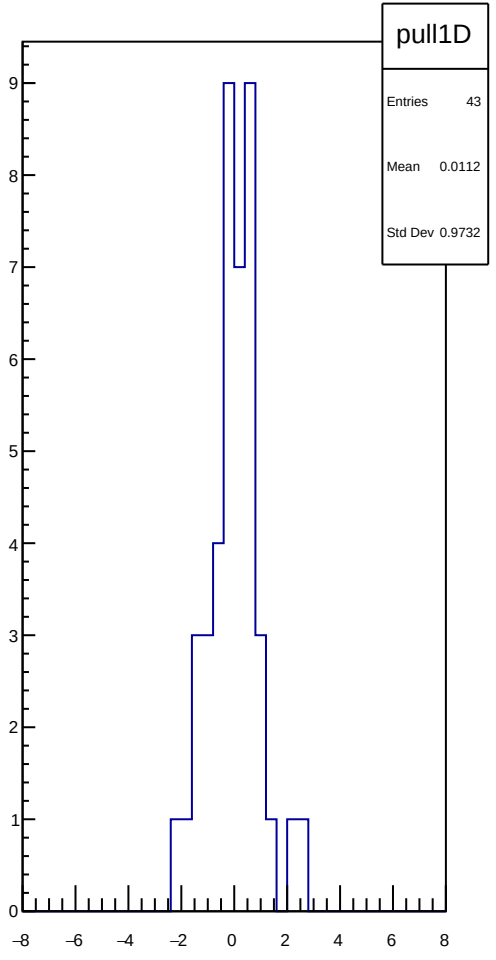
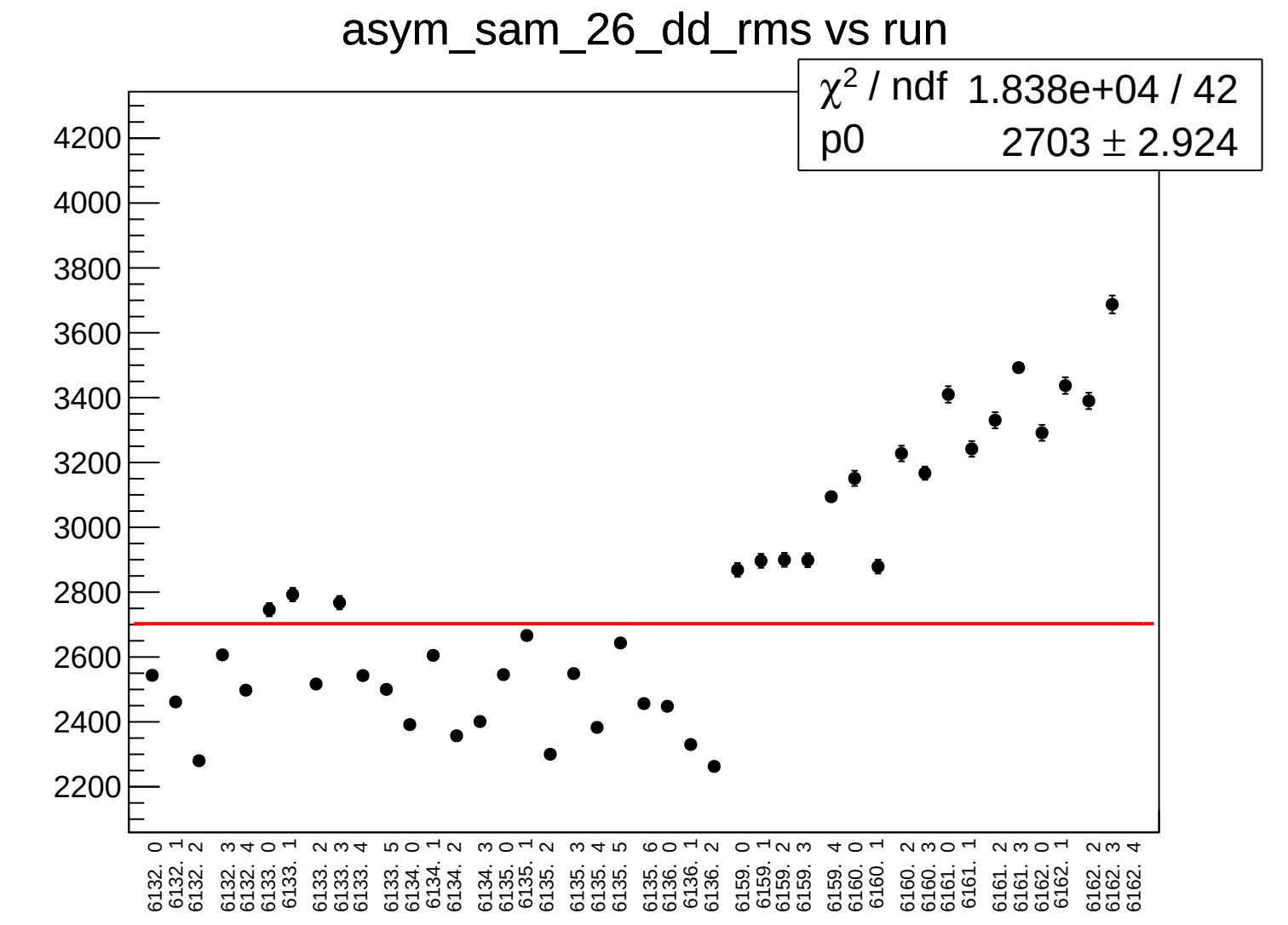
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

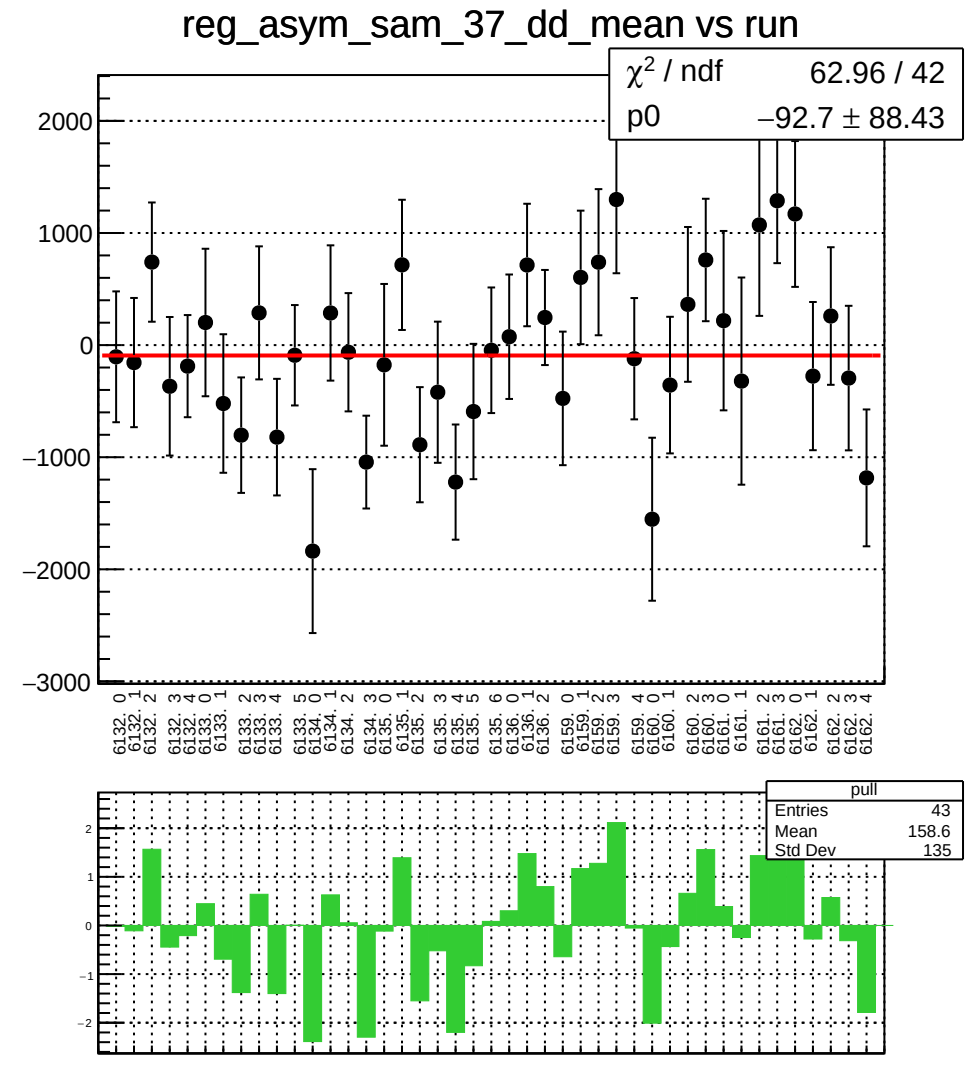

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 40.02 / 42
p0 −1714 ± 4125
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −227.1
Std Dev 245.5
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0118
Std Dev 0.9647
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

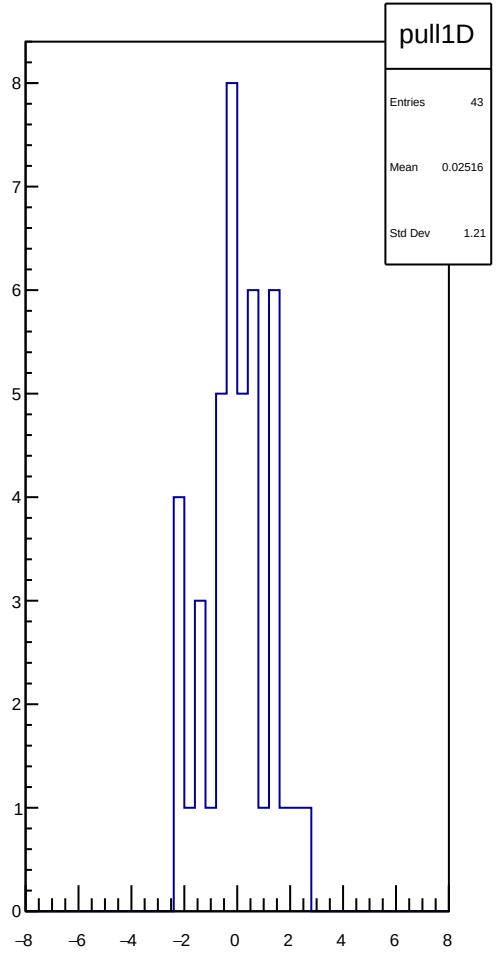

asym_sam_26_dd_correction_rms vs run
χ² / ndf 1.855e+04 / 42
p0 2696 ± 2.917
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

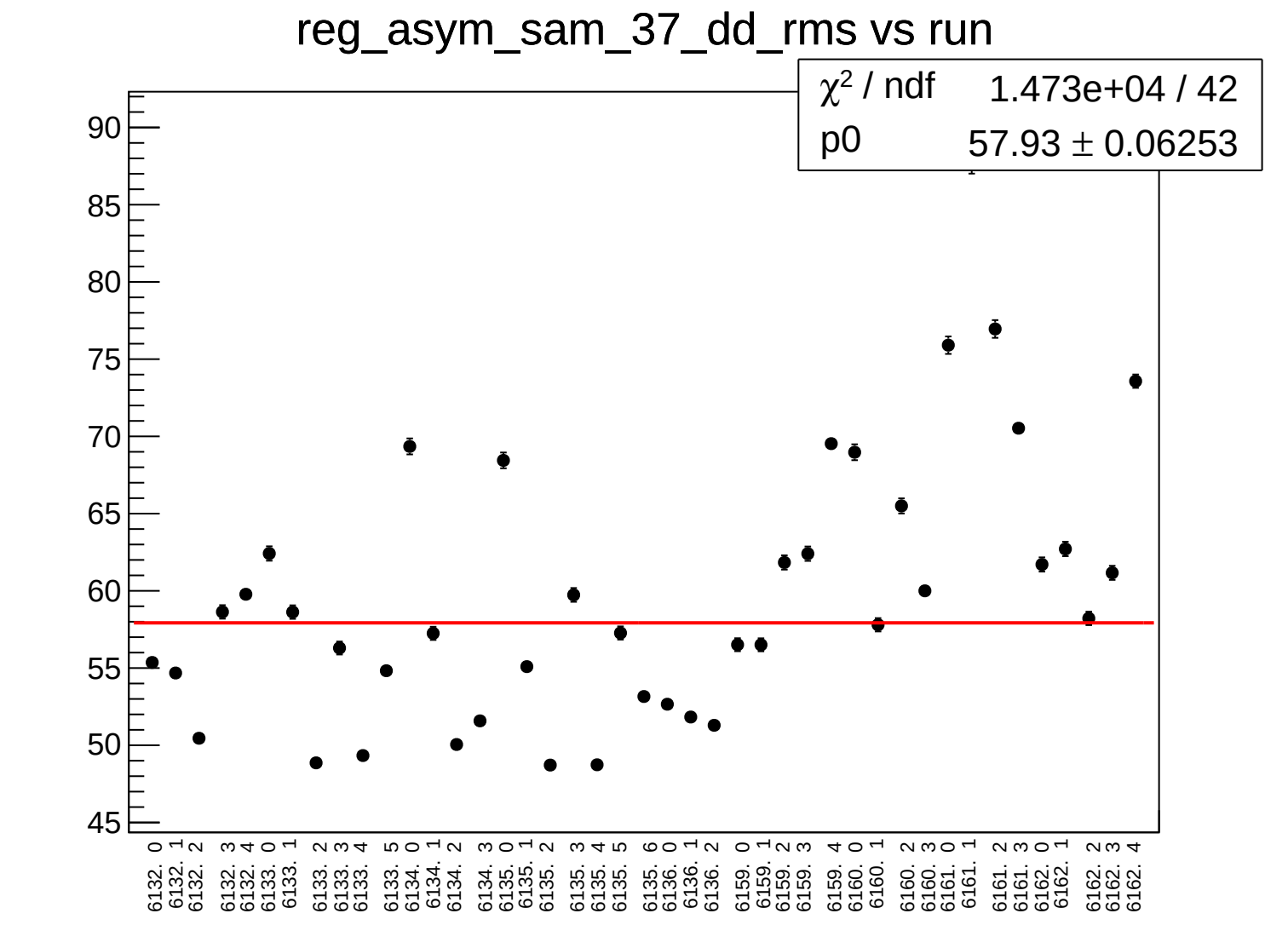

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 40.73 / 42
p0 1725 ± 4135
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −243.7
Std Dev 261.9
2
1
0
−1
−2

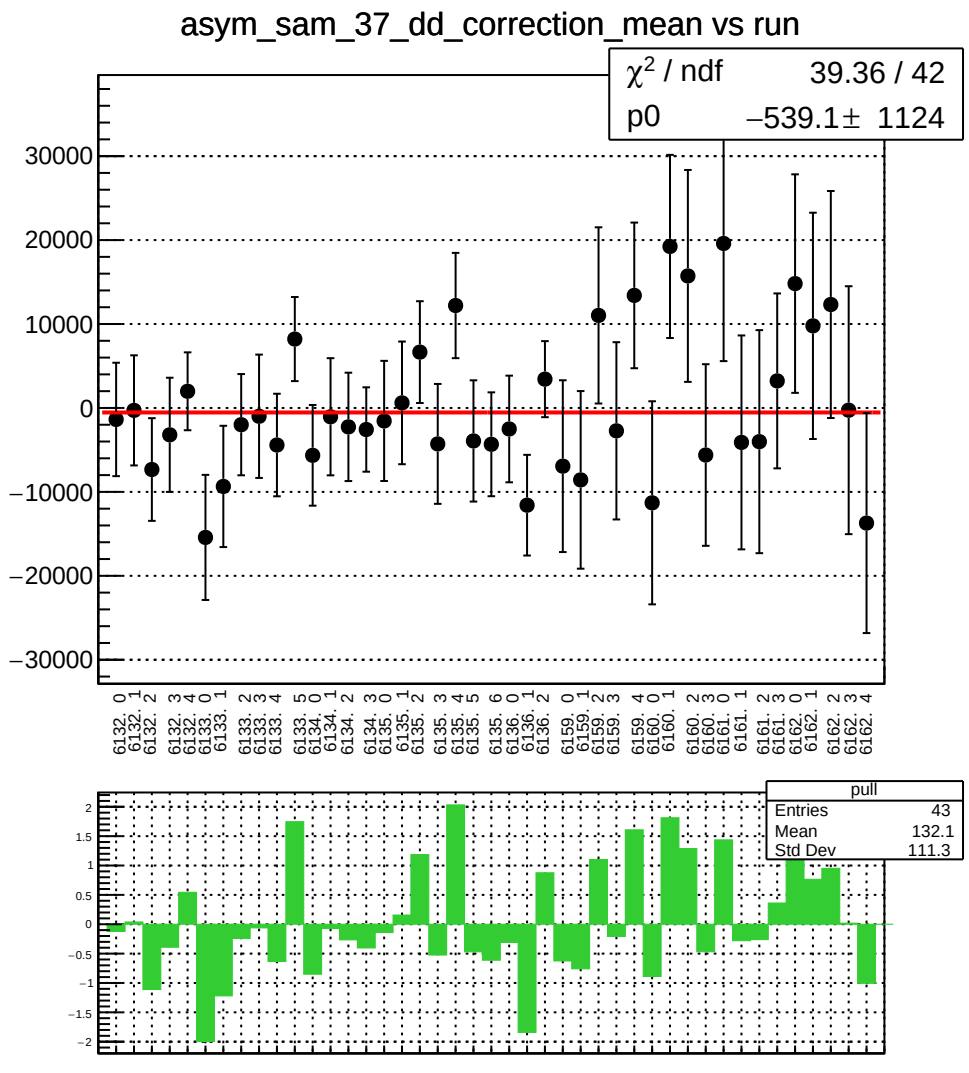

pull1D
Entries 43
Mean 0.0112
Std Dev 0.9732
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

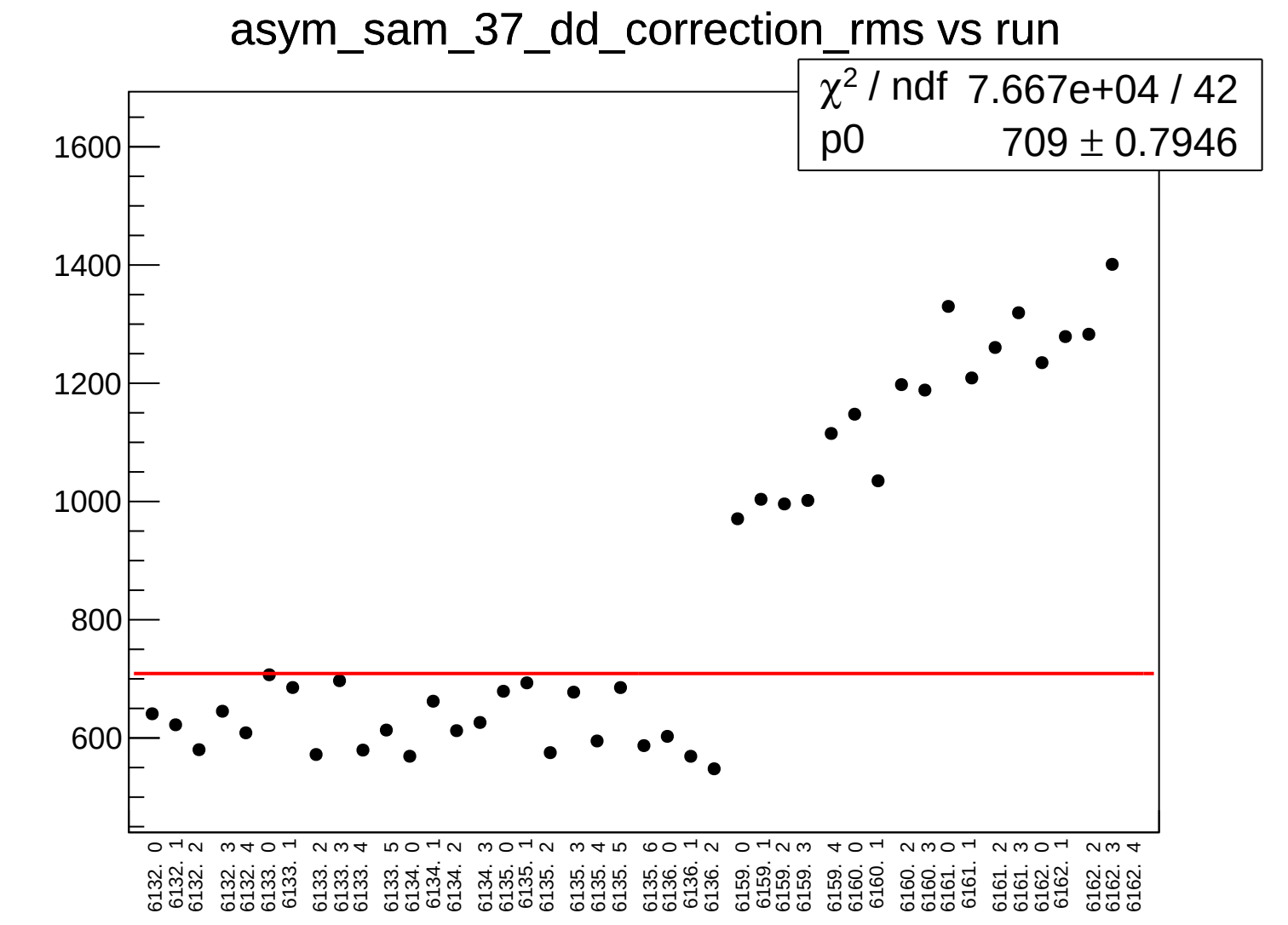

asym_sam_26_dd_rms vs run
χ² / ndf 1.838e+04 / 42
p0 2703 ± 2.924
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

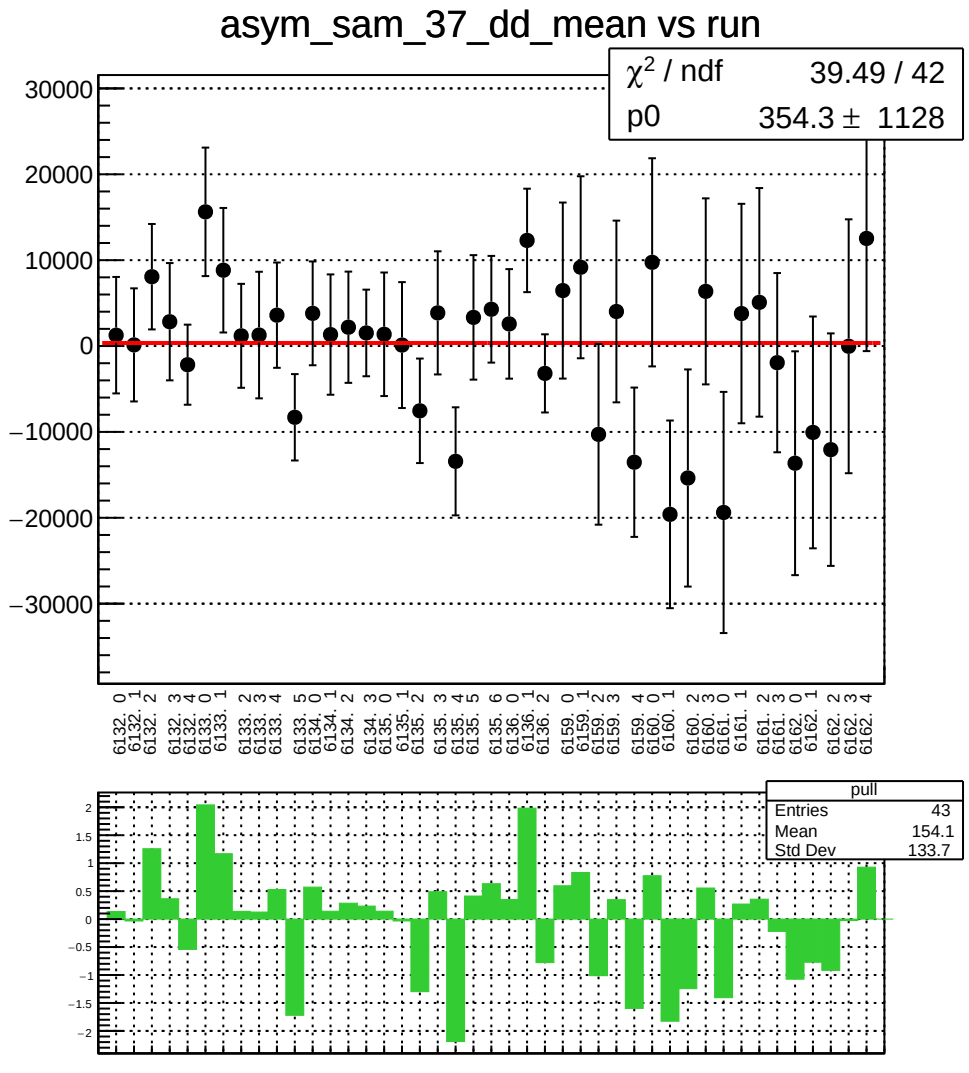

reg_asym_sam_37_dd_mean vs run
χ² / ndf 62.96 / 42
p0 −92.7 ± 88.43
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 158.6
Std Dev 135
2
1
0
−1
−2

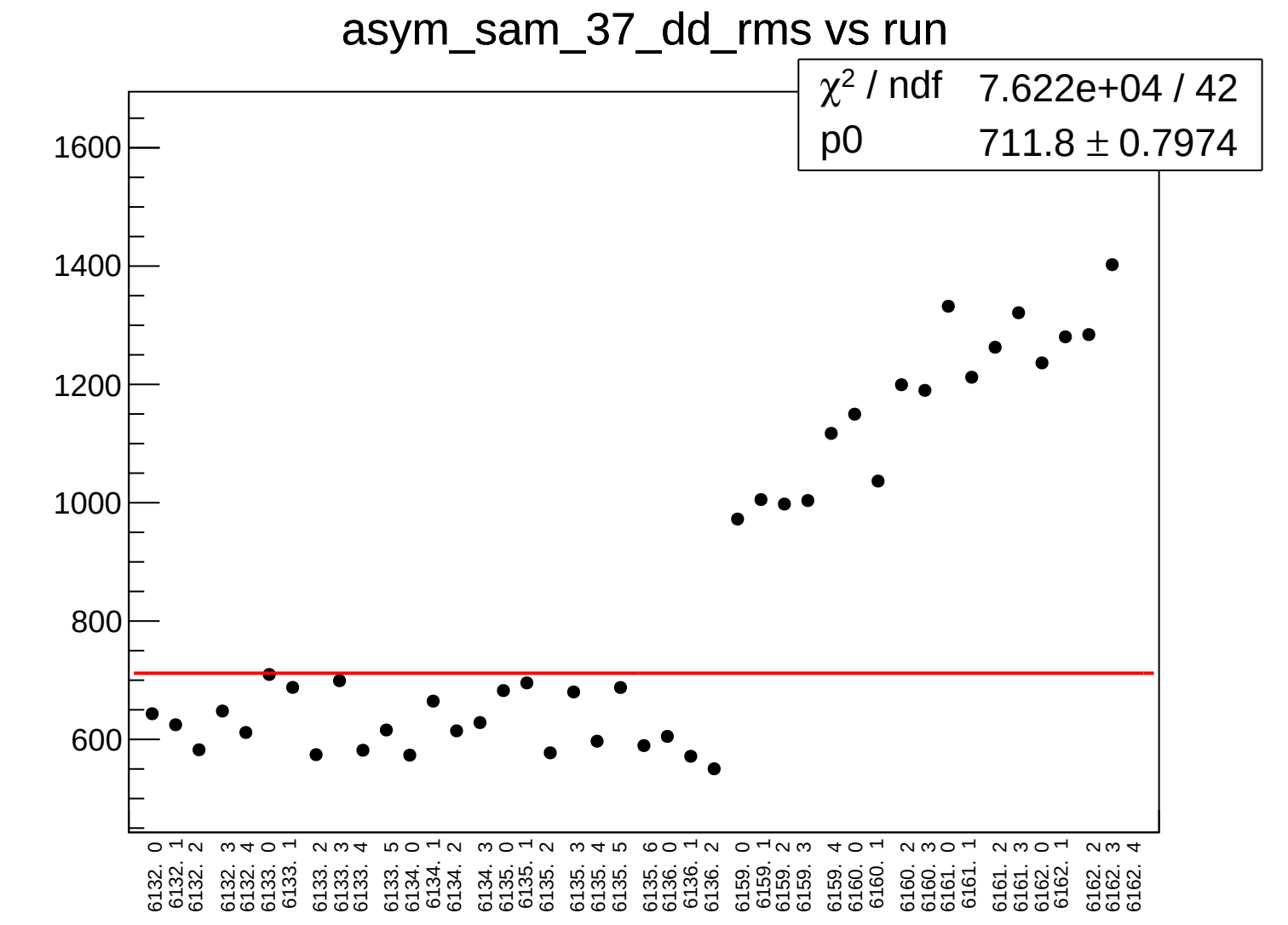

pull1D
Entries 43
Mean 0.02516
Std Dev 1.21
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

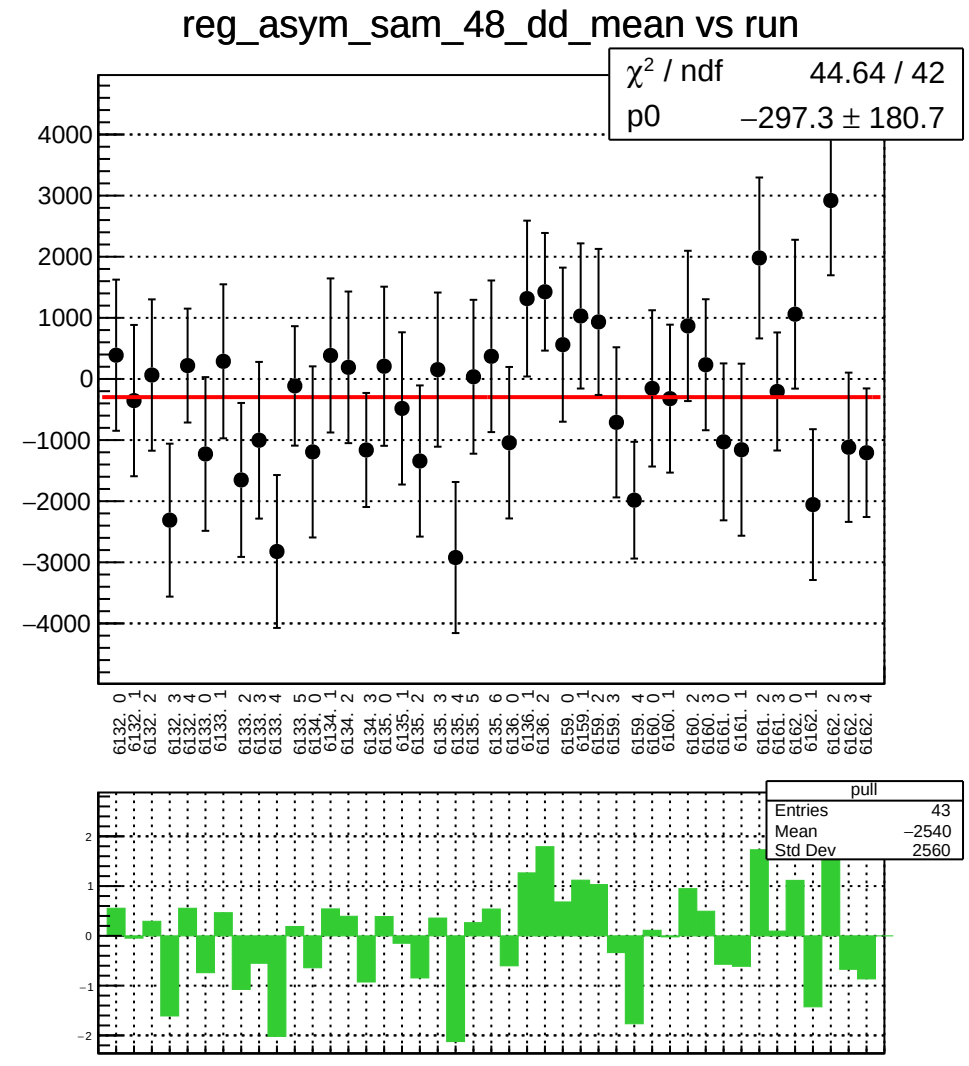

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.473e+04 / 42
p0 57.93 ± 0.06253
90
85
80
75
70
65
60
55
50
45
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

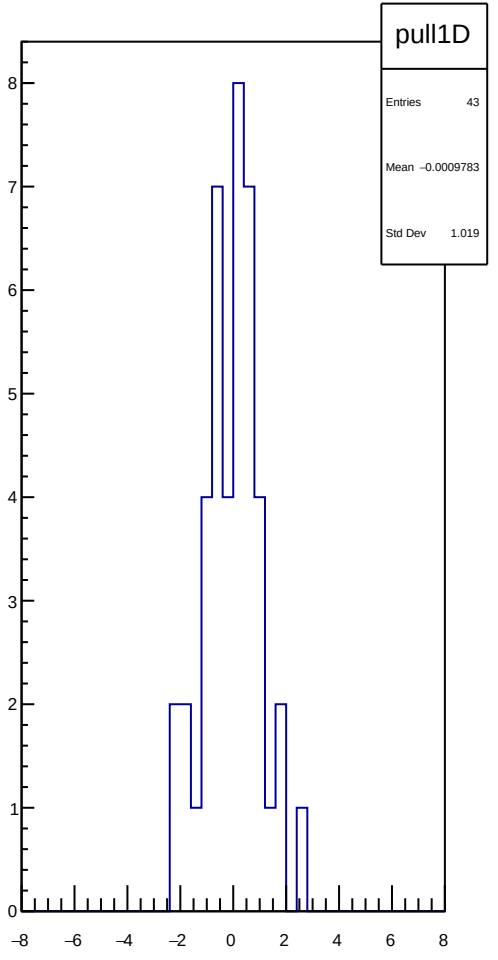

asym_sam_37_dd_correction_mean vs run
χ² / ndf 39.36 / 42
p0 −539.1± 1124
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 132.1
Std Dev 111.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.03108
Std Dev 0.9562
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

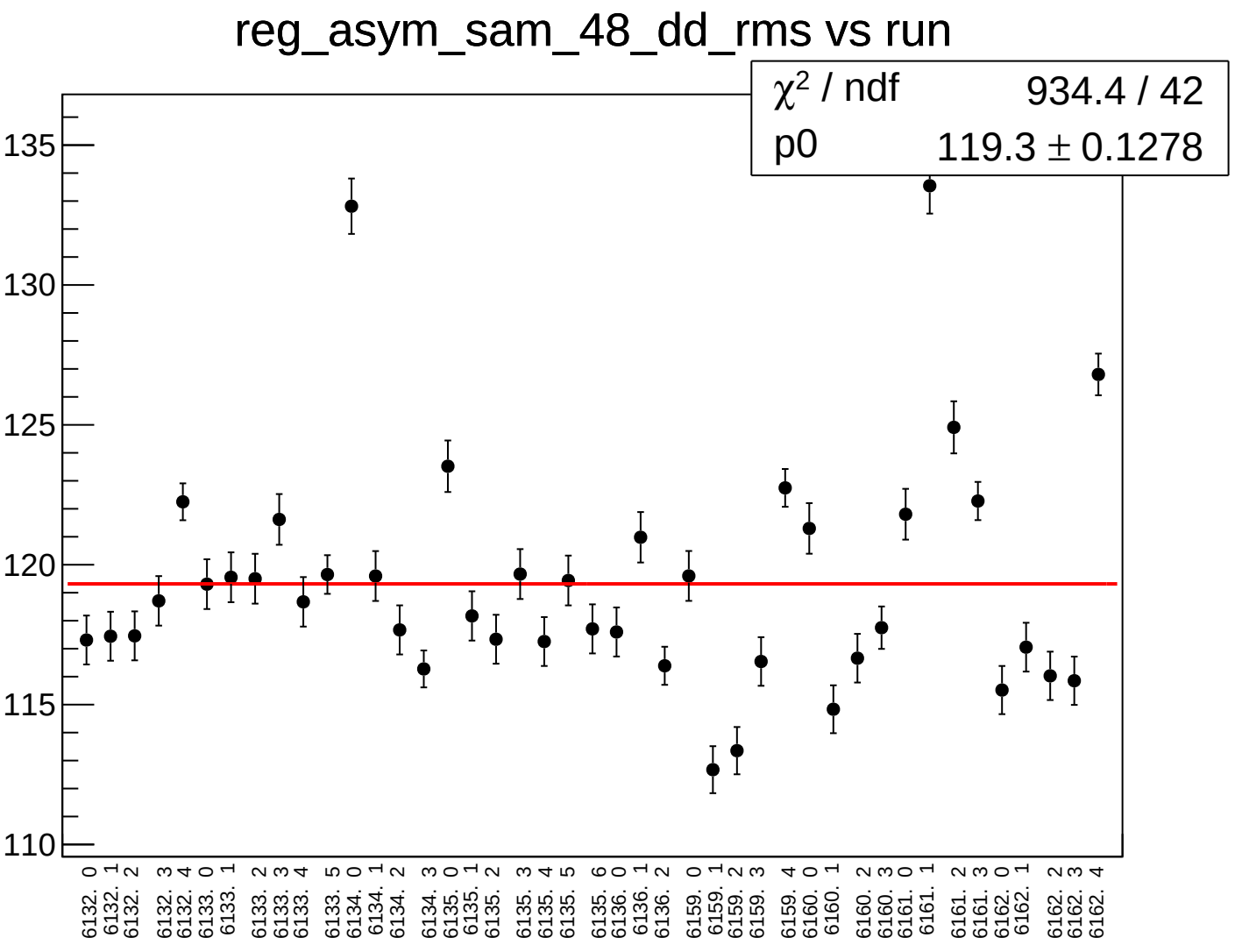

asym_sam_37_dd_correction_rms vs run
χ² / ndf 7.667e+04 / 42
p0 709 ± 0.7946
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

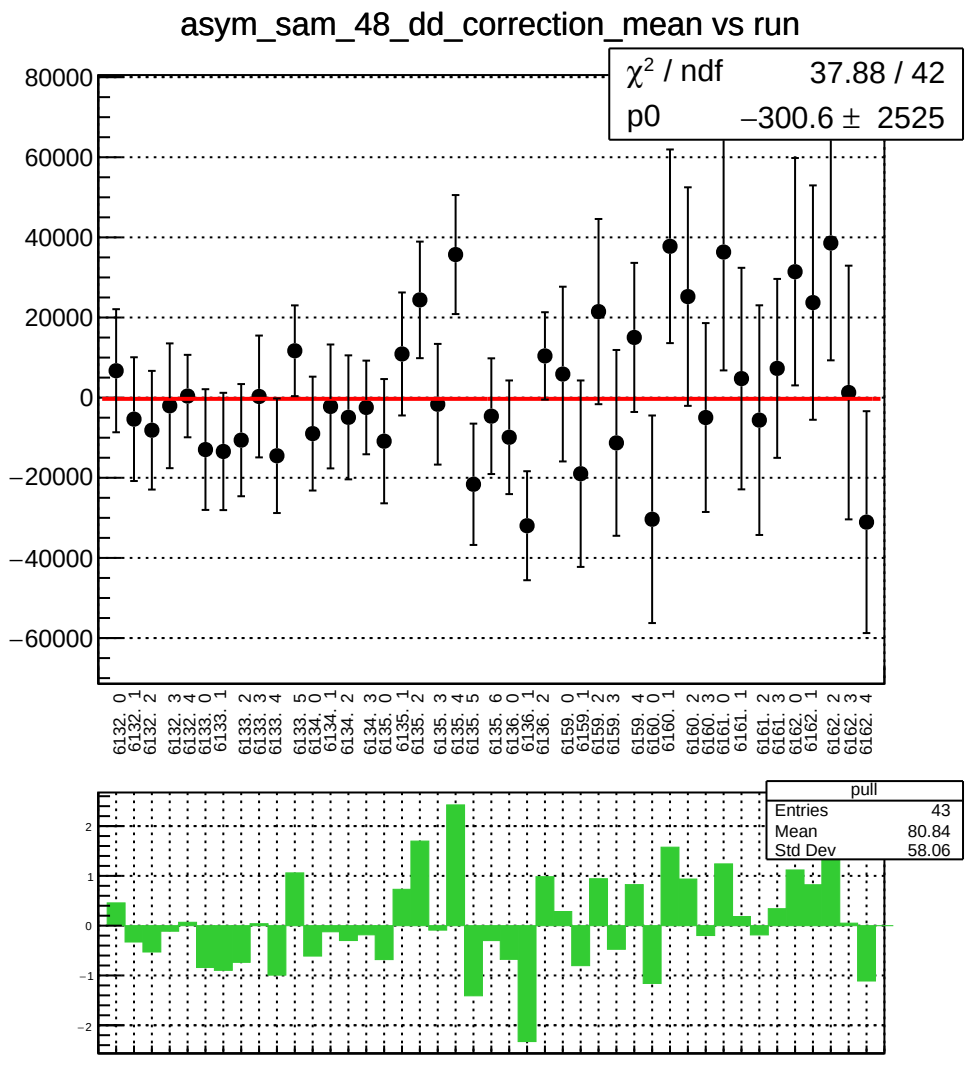

asym_sam_37_dd_mean vs run
χ² / ndf 39.49 / 42
p0 354.3 ± 1128
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 154.1
Std Dev 133.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.02418
Std Dev 0.958
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

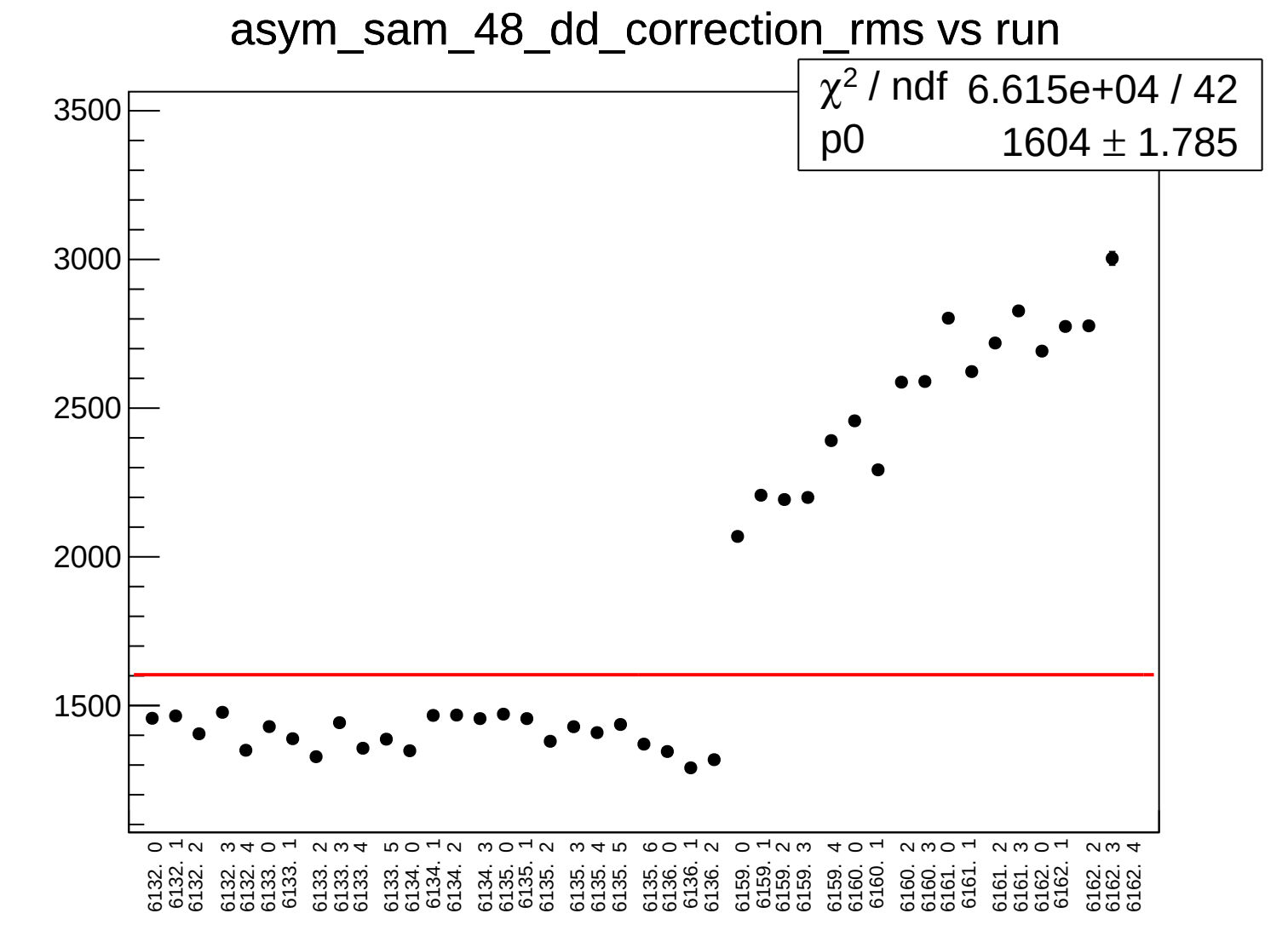

asym_sam_37_dd_rms vs run
χ² / ndf 7.622e+04 / 42
p0 711.8 ± 0.7974
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

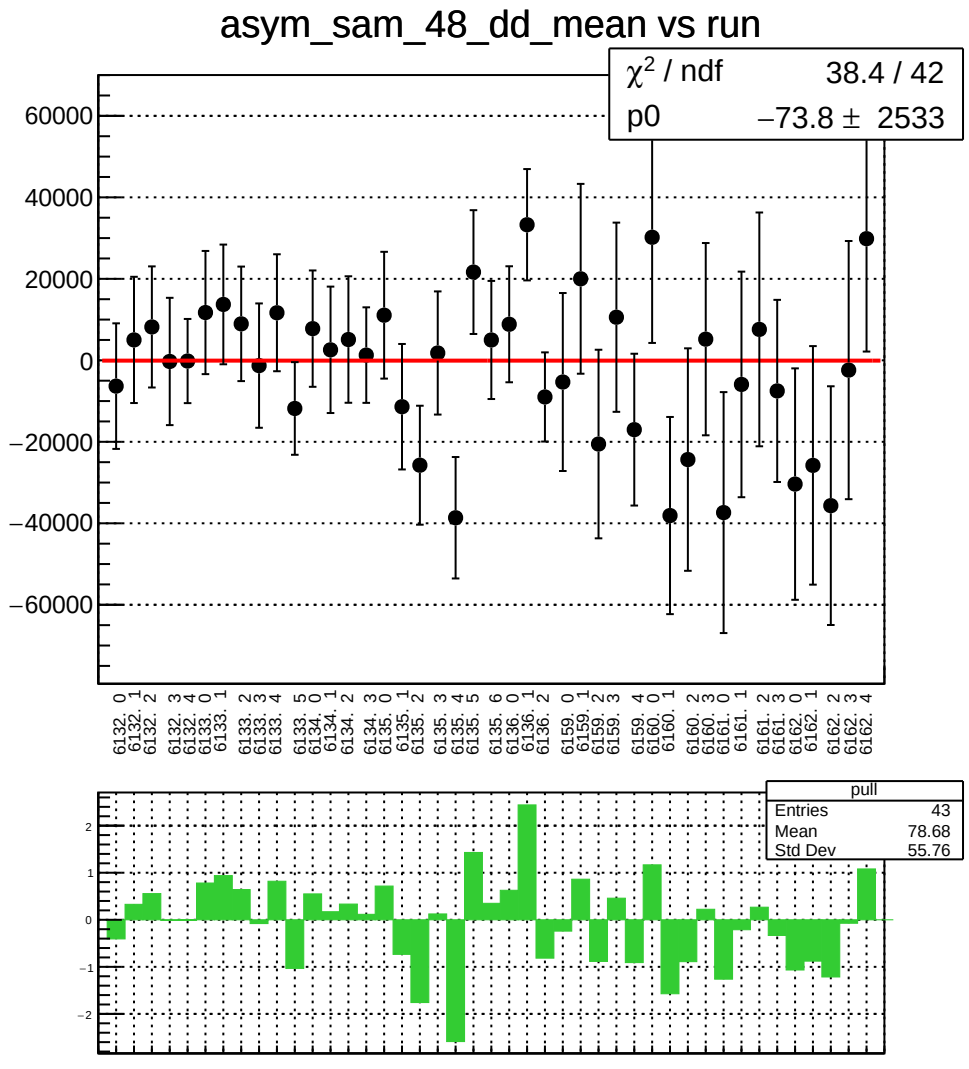

reg_asym_sam_48_dd_mean vs run
χ² / ndf 44.64 / 42
p0 −297.3 ± 180.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −2540
Std Dev 2560
2
1
0
−1
−2

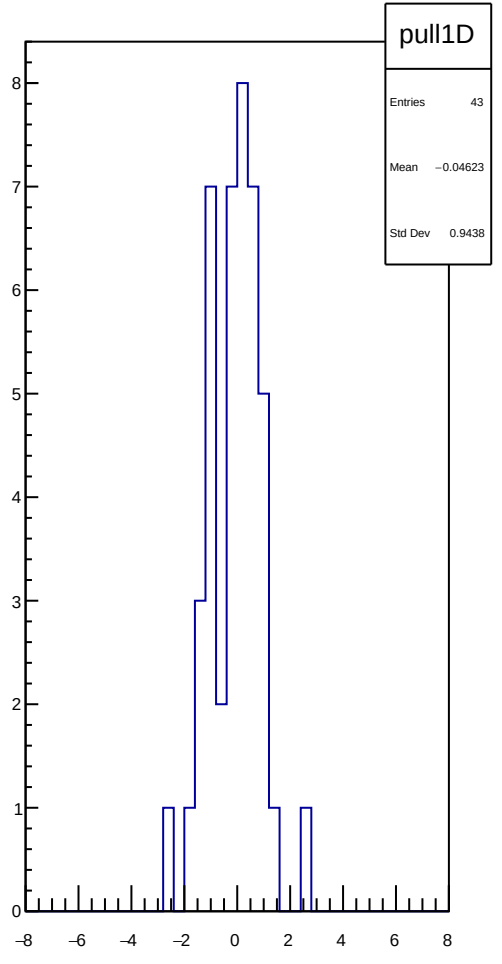

pull1D
Entries 43
Mean −0.0009783
Std Dev 1.019
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

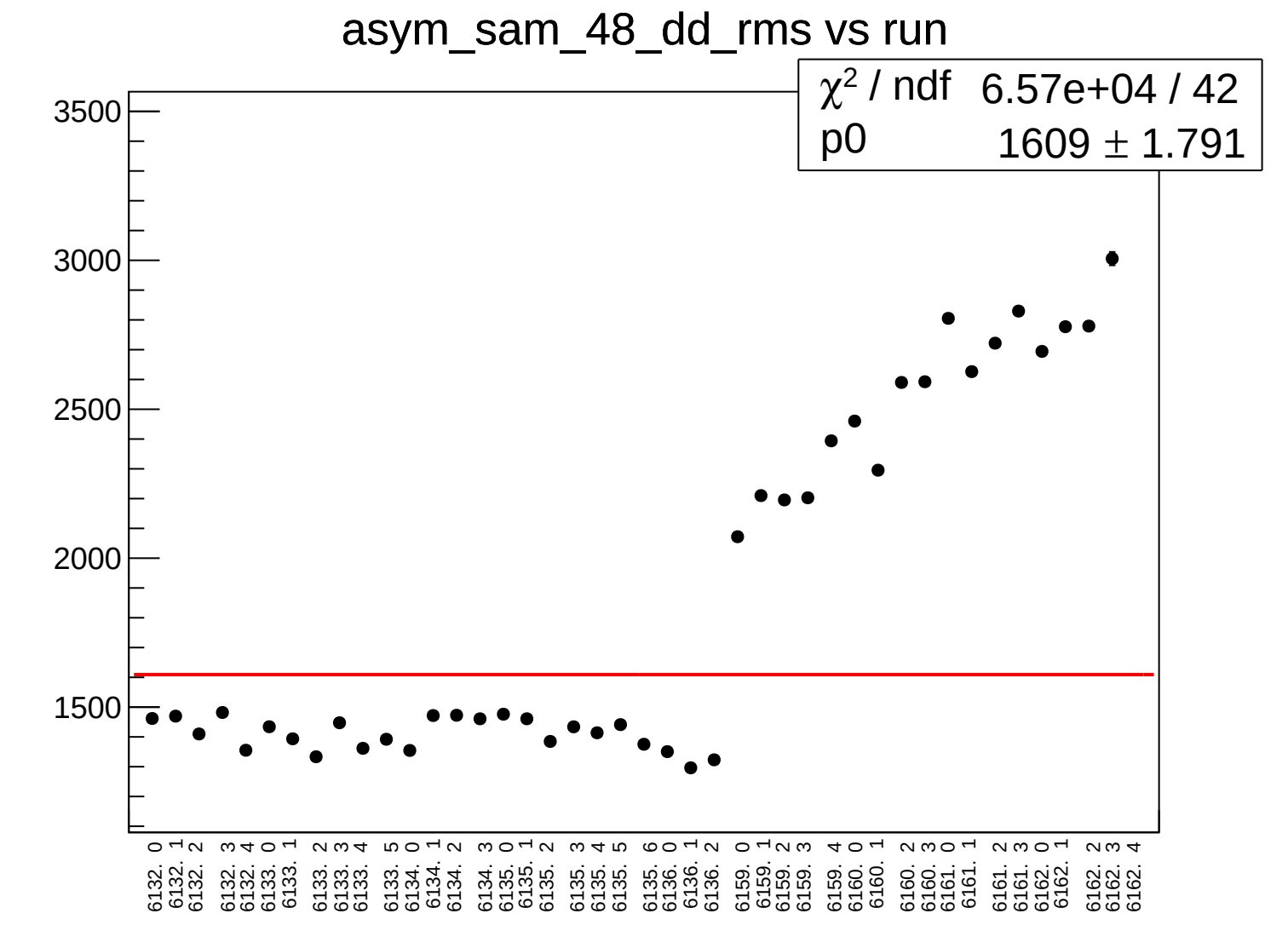

reg_asym_sam_48_dd_rms vs run
χ² / ndf 934.4 / 42
p0 119.3 ± 0.1278
135
130
125
120
115
110
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

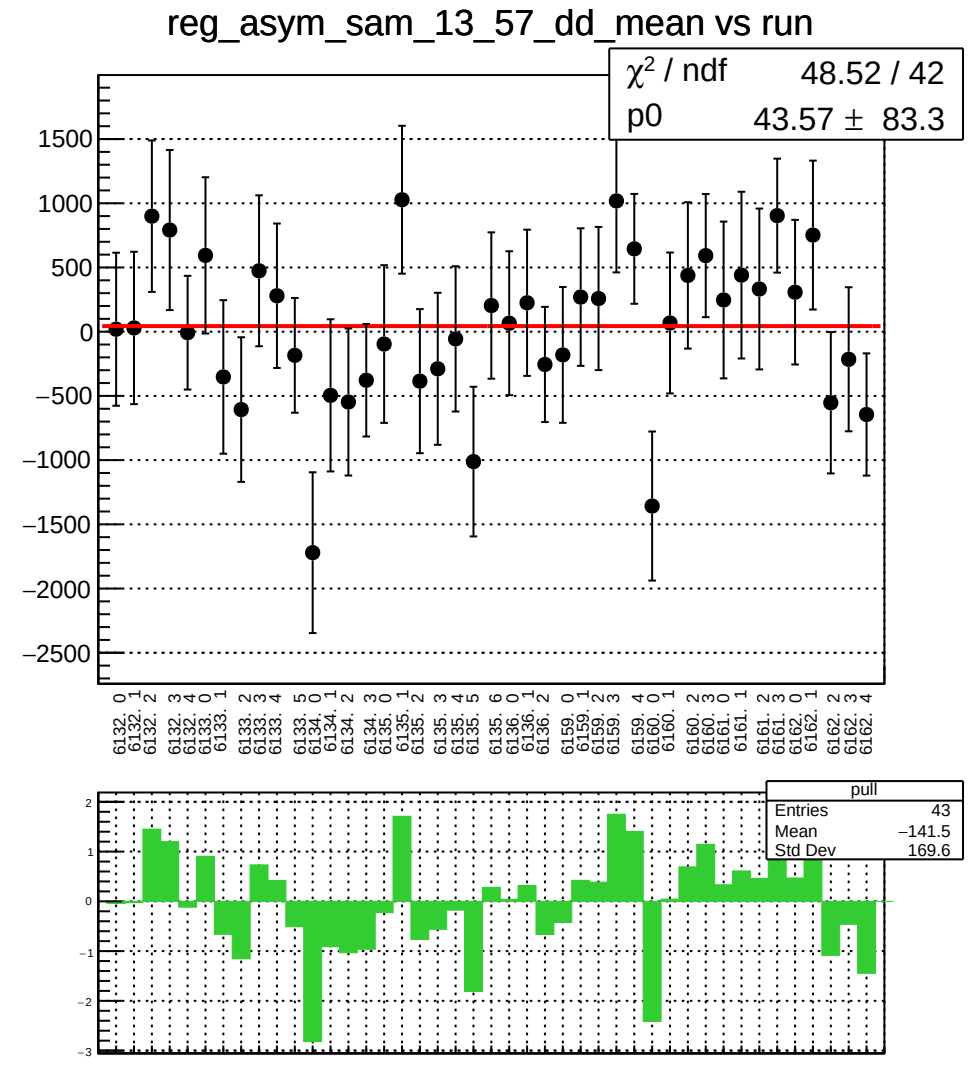

asym_sam_48_dd_correction_mean vs run
χ² / ndf 37.88 / 42
p0 −300.6 ± 2525
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 80.84
Std Dev 58.06
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.04747
Std Dev 0.9374
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

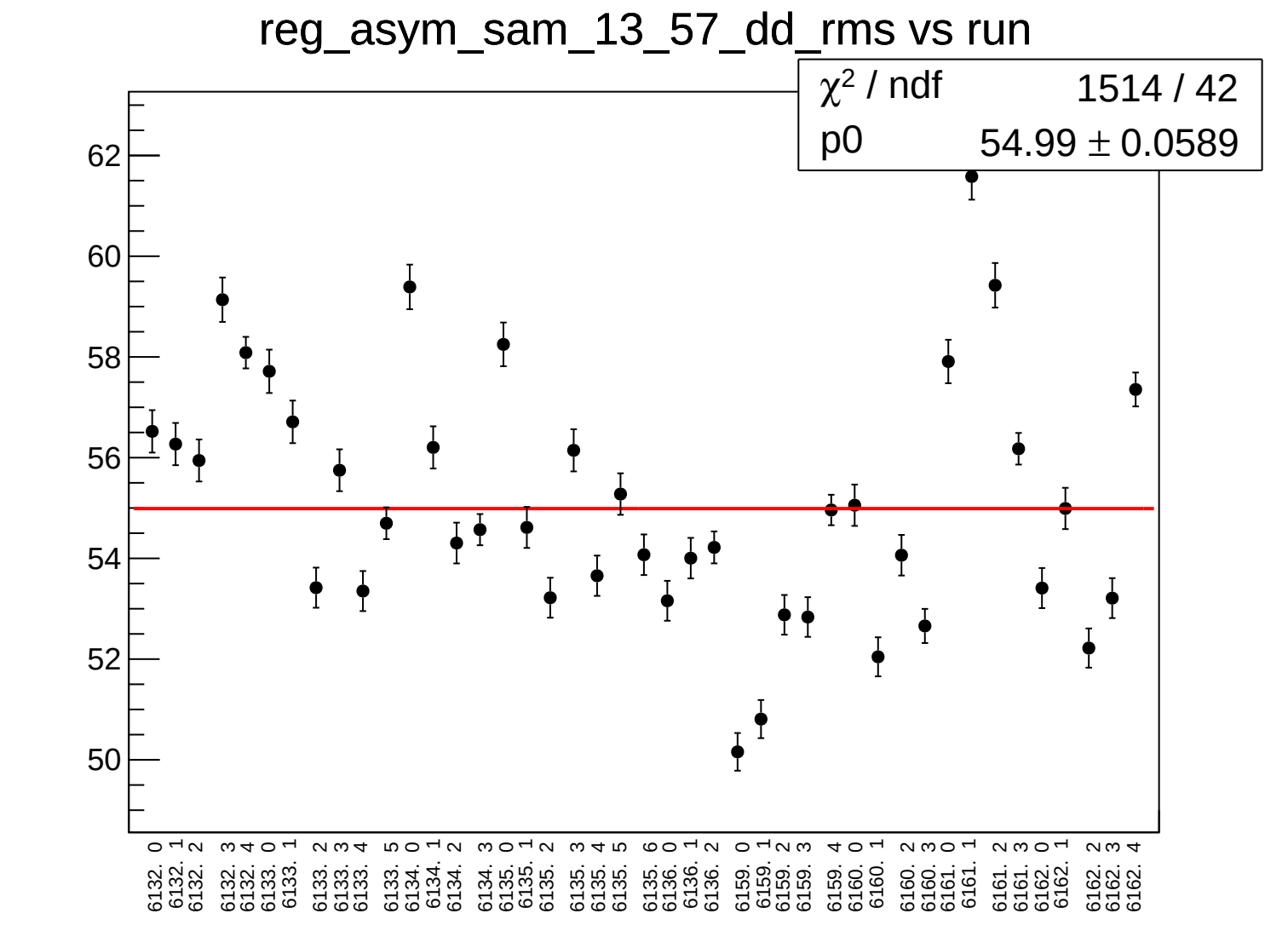

asym_sam_48_dd_correction_rms vs run
χ² / ndf 6.615e+04 / 42
p0 1604 ± 1.785
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

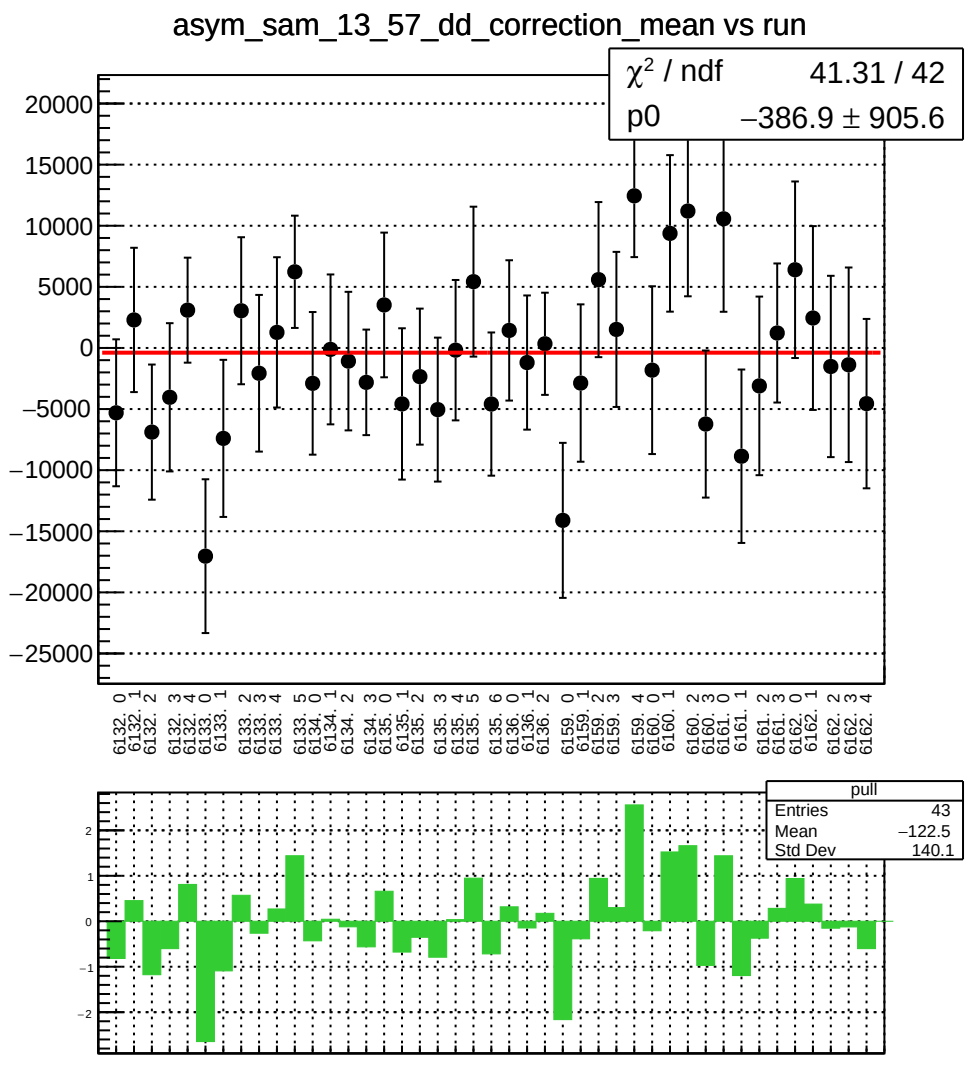

asym_sam_48_dd_mean vs run
χ² / ndf 38.4 / 42
p0 −73.8 ± 2533
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 78.68
Std Dev 55.76
2
1
0
−1
−2

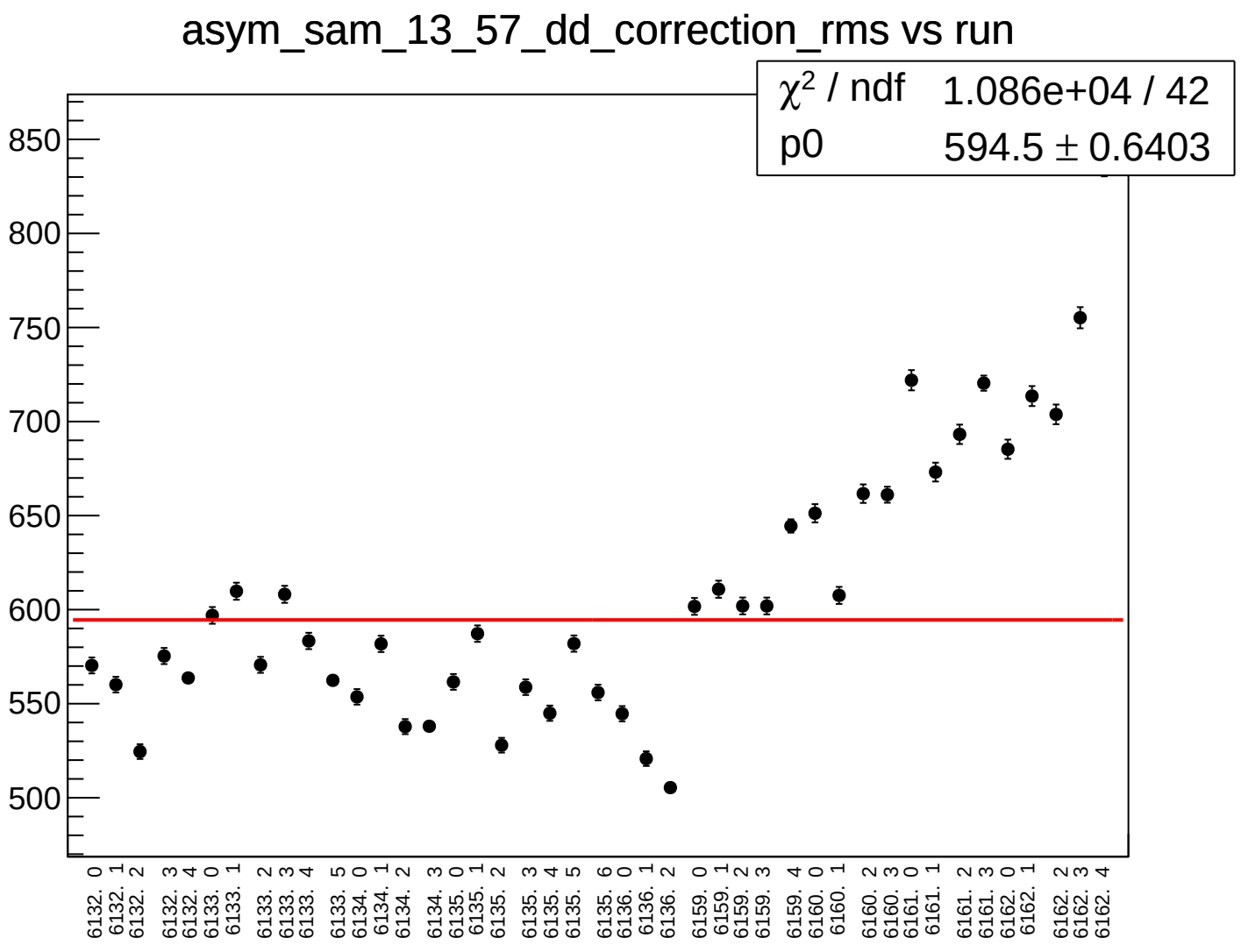

pull1D
Entries 43
Mean −0.04623
Std Dev 0.9438
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

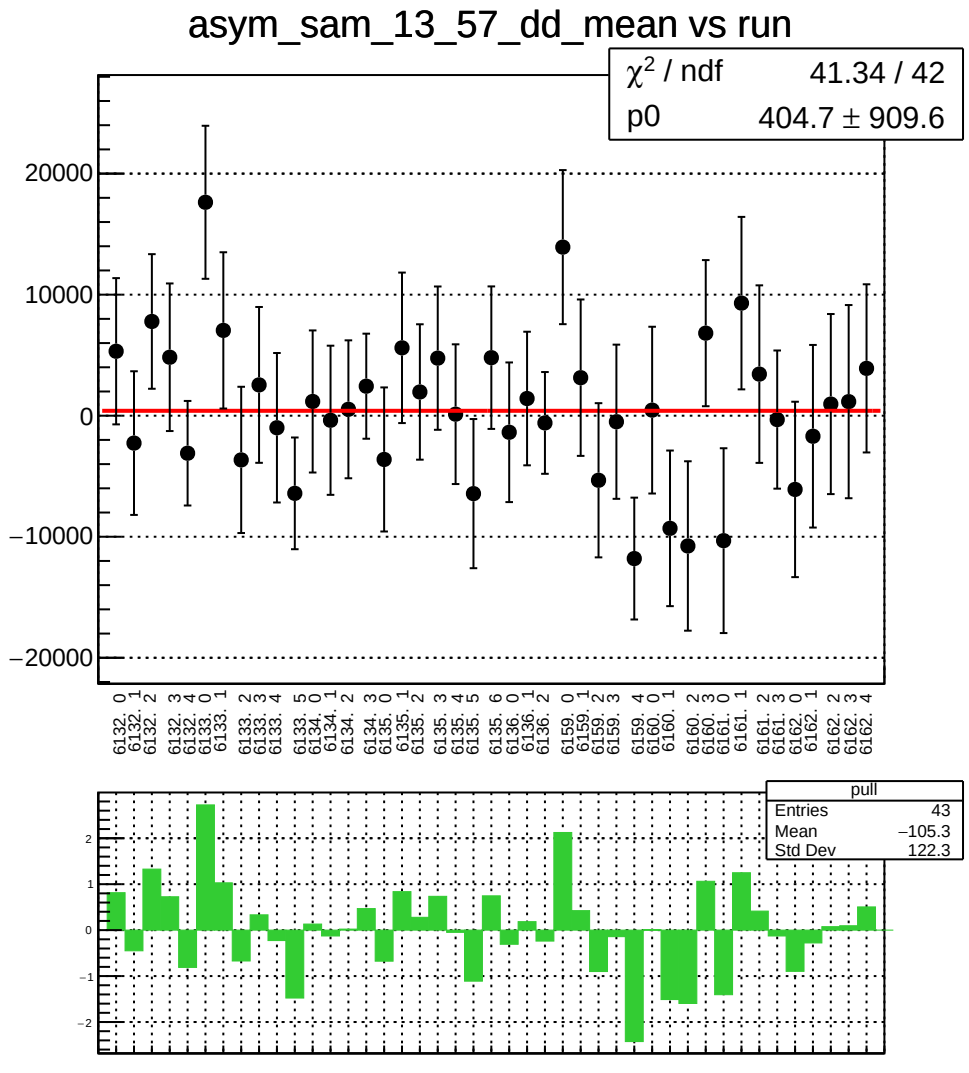

asym_sam_48_dd_rms vs run
χ² / ndf 6.57e+04 / 42
p0 1609 ± 1.791
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

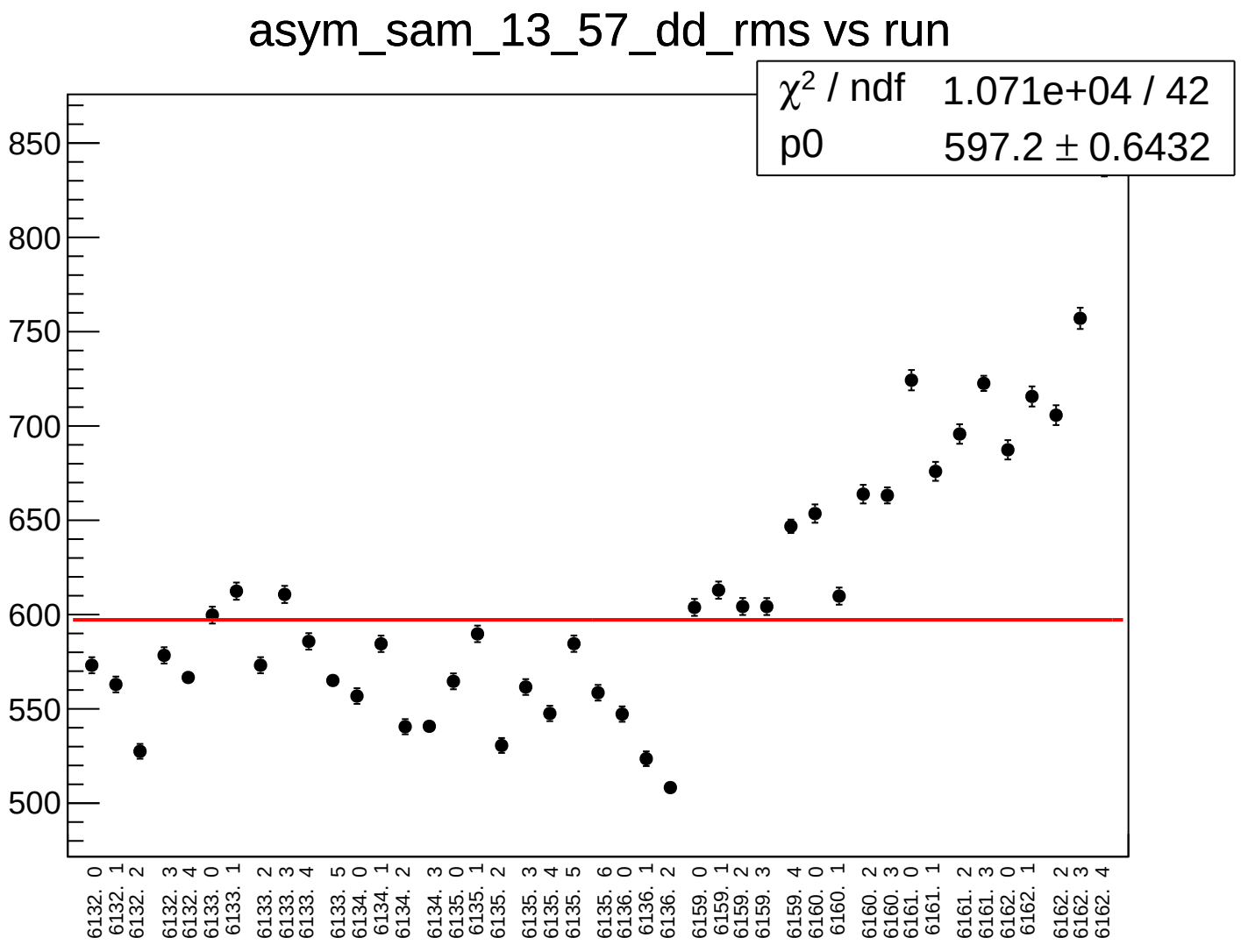

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 48.52 / 42
p0 43.57 ± 83.3
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −141.5
Std Dev 169.6
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.007629
Std Dev 1.062
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

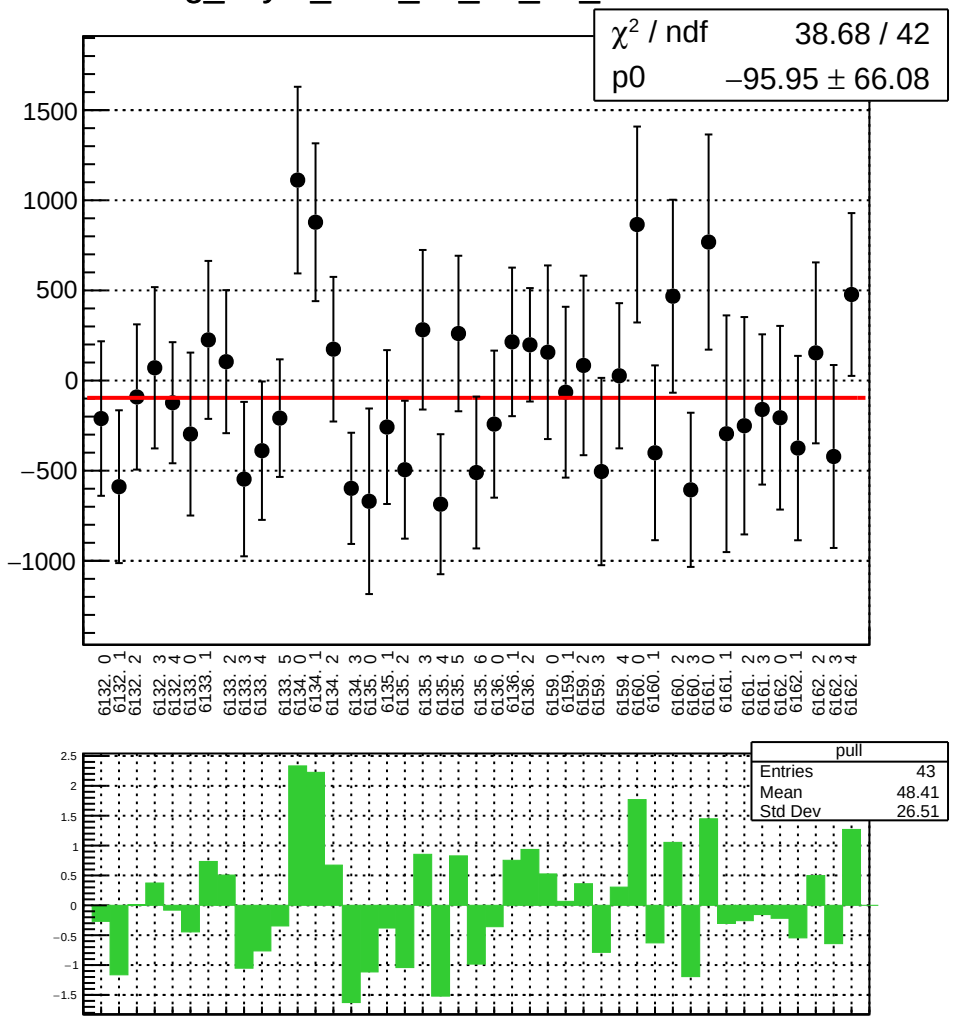

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 1514 / 42
p0 54.99 ± 0.0589
62
60
58
56
54
52
50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

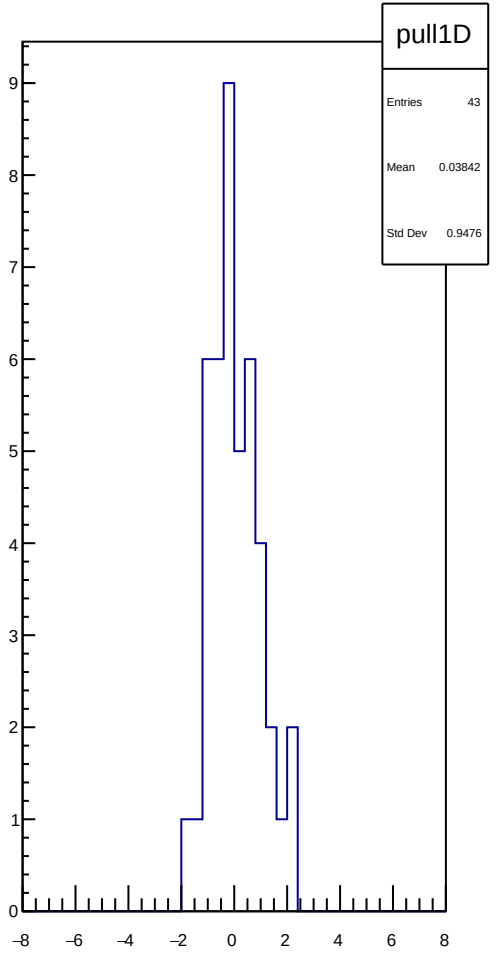

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 41.31 / 42
p0 −386.9 ± 905.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −122.5
Std Dev 140.1
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01897
Std Dev 0.9799
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

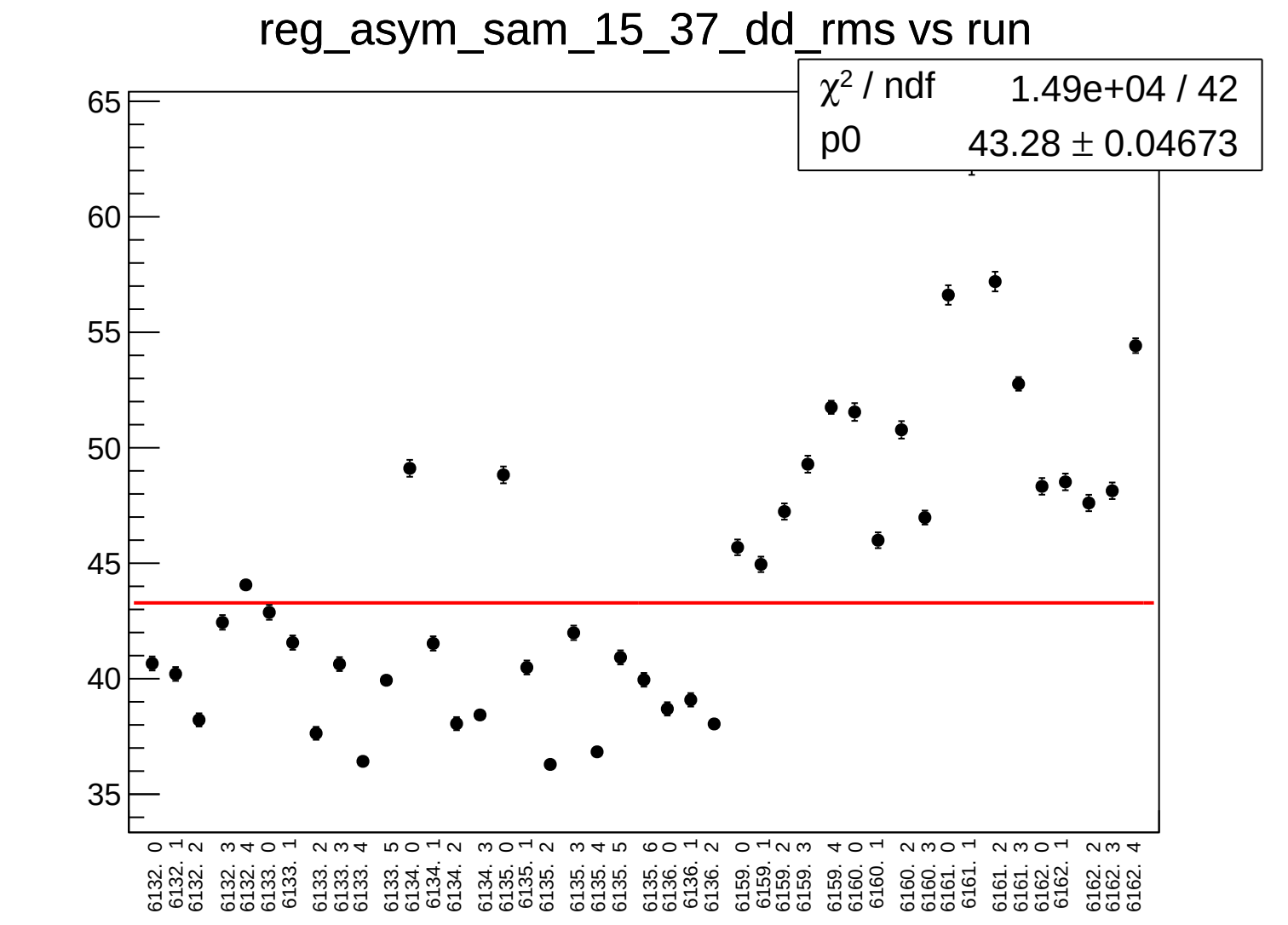

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 1.086e+04 / 42
p0 594.5 ± 0.6403
850
800
750
700
650
600
550
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

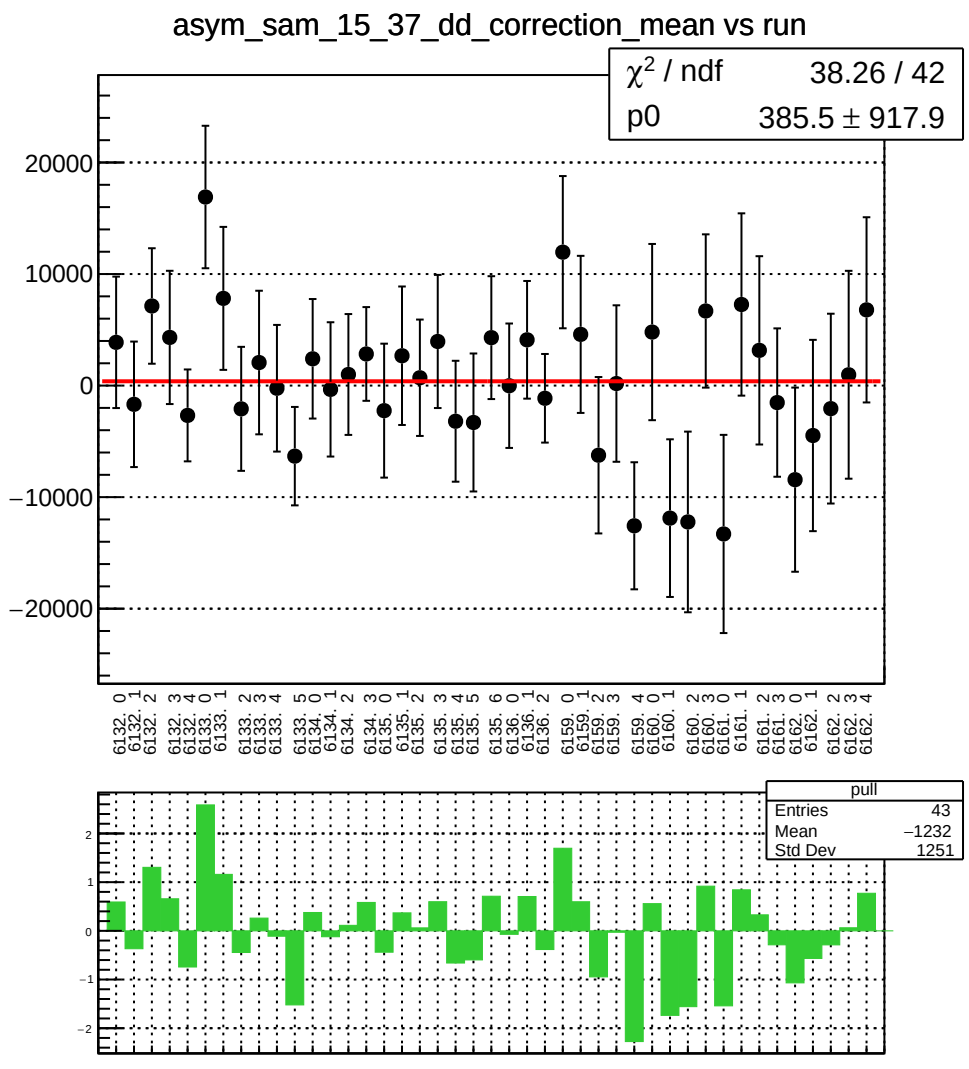

asym_sam_13_57_dd_mean vs run
χ² / ndf 41.34 / 42
p0 404.7 ± 909.6
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −105.3
Std Dev 122.3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02055
Std Dev 0.9802
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

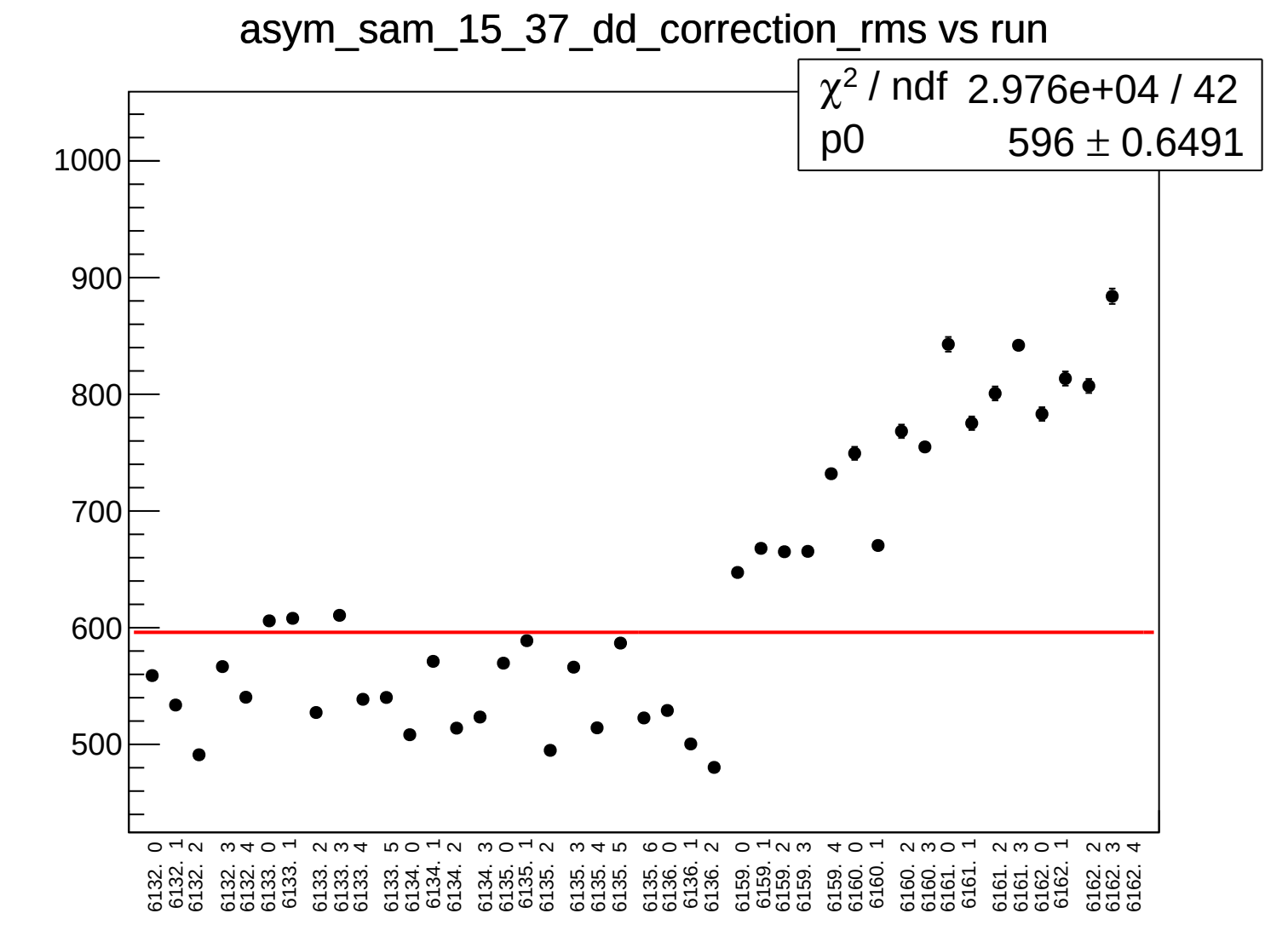

asym_sam_13_57_dd_rms vs run
χ² / ndf 1.071e+04 / 42
p0 597.2 ± 0.6432
850
800
750
700
650
600
550
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

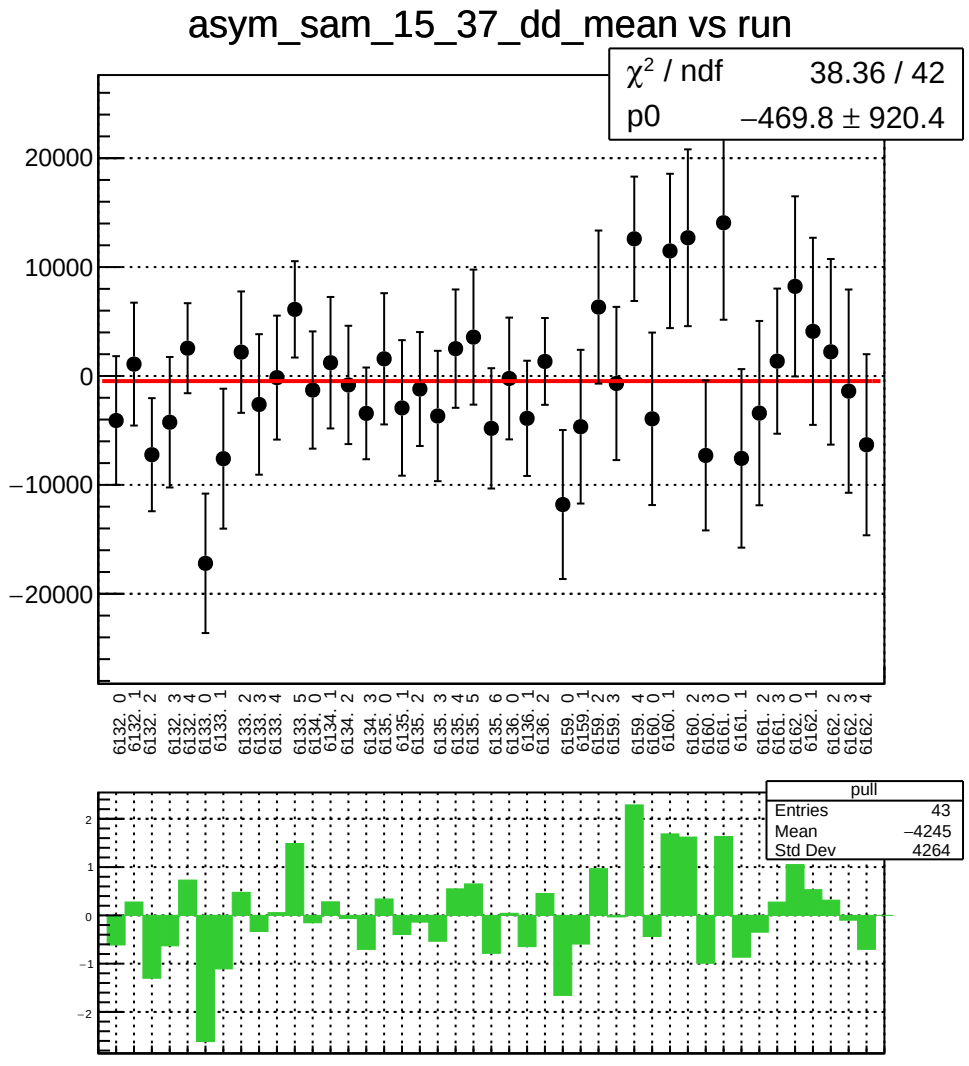

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 38.68 / 42
p0 −95.95 ± 66.08
1500
1000
500
0
−500
−1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 48.41
Std Dev 26.51
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

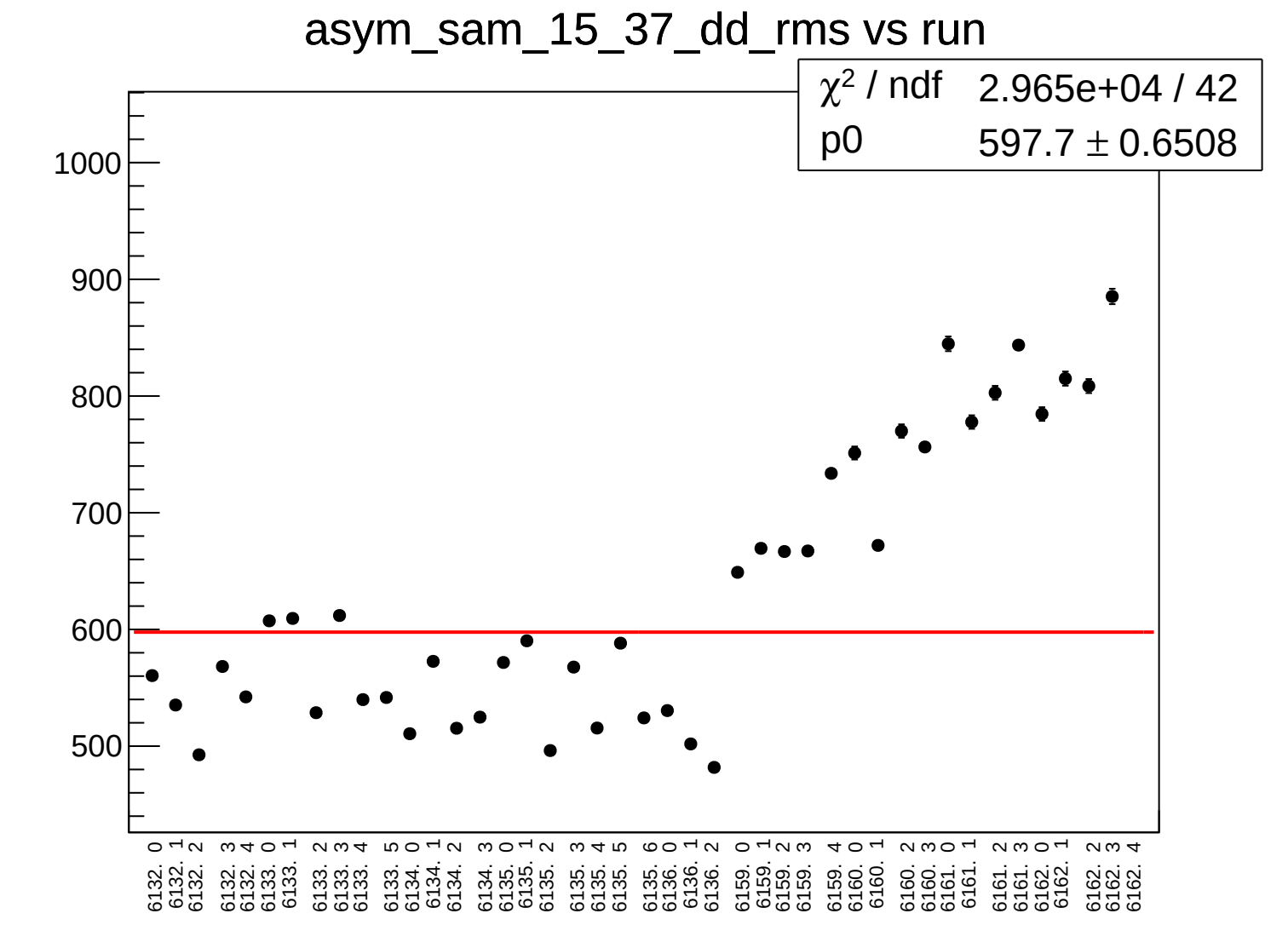

pull1D
Entries 43
Mean 0.03842
Std Dev 0.9476
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

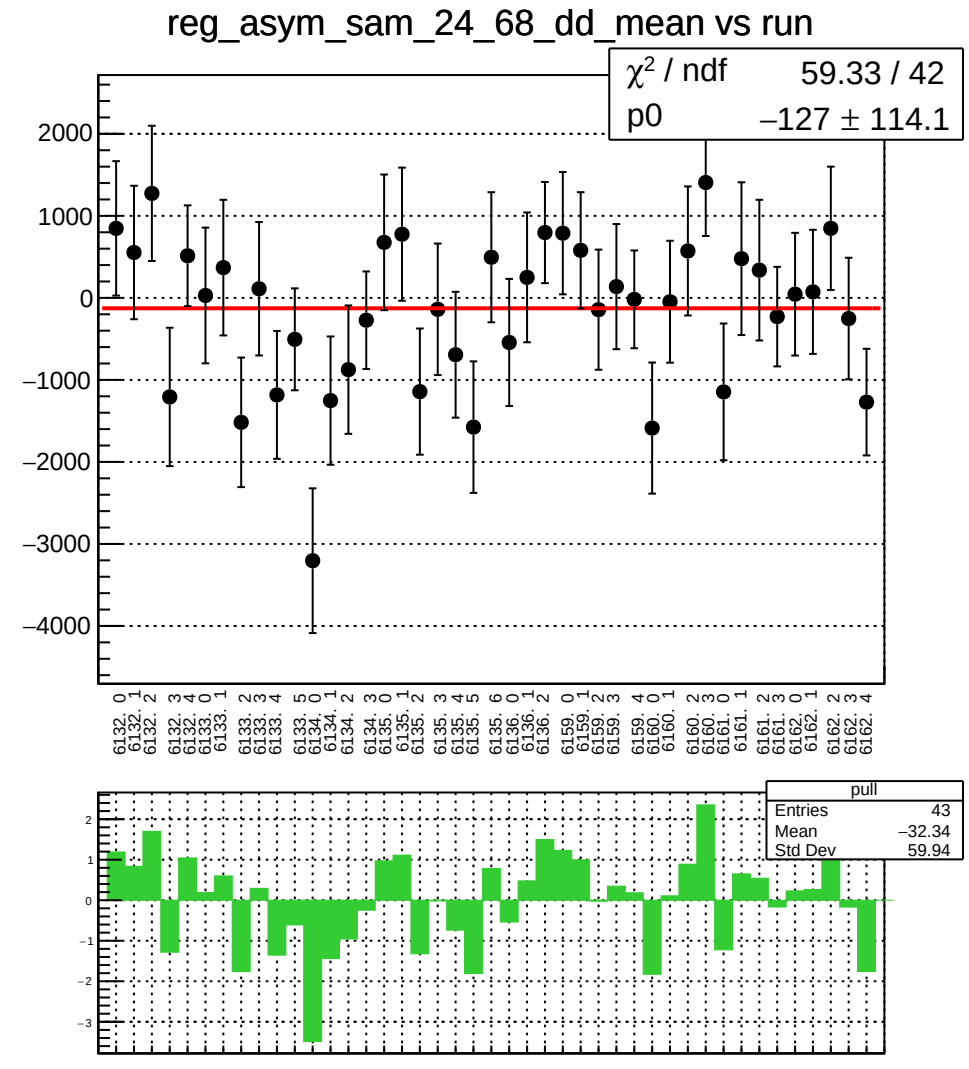

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.49e+04 / 42
p0 43.28 ± 0.04673
65
60
55
50
45
40
35
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

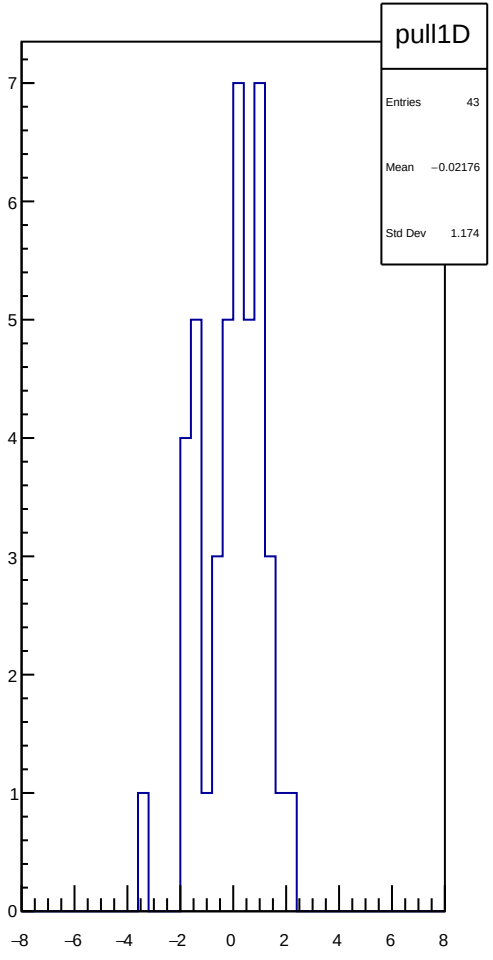

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 38.26 / 42
p0 385.5 ± 917.9
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −1232
Std Dev 1251
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.002428
Std Dev 0.9432
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

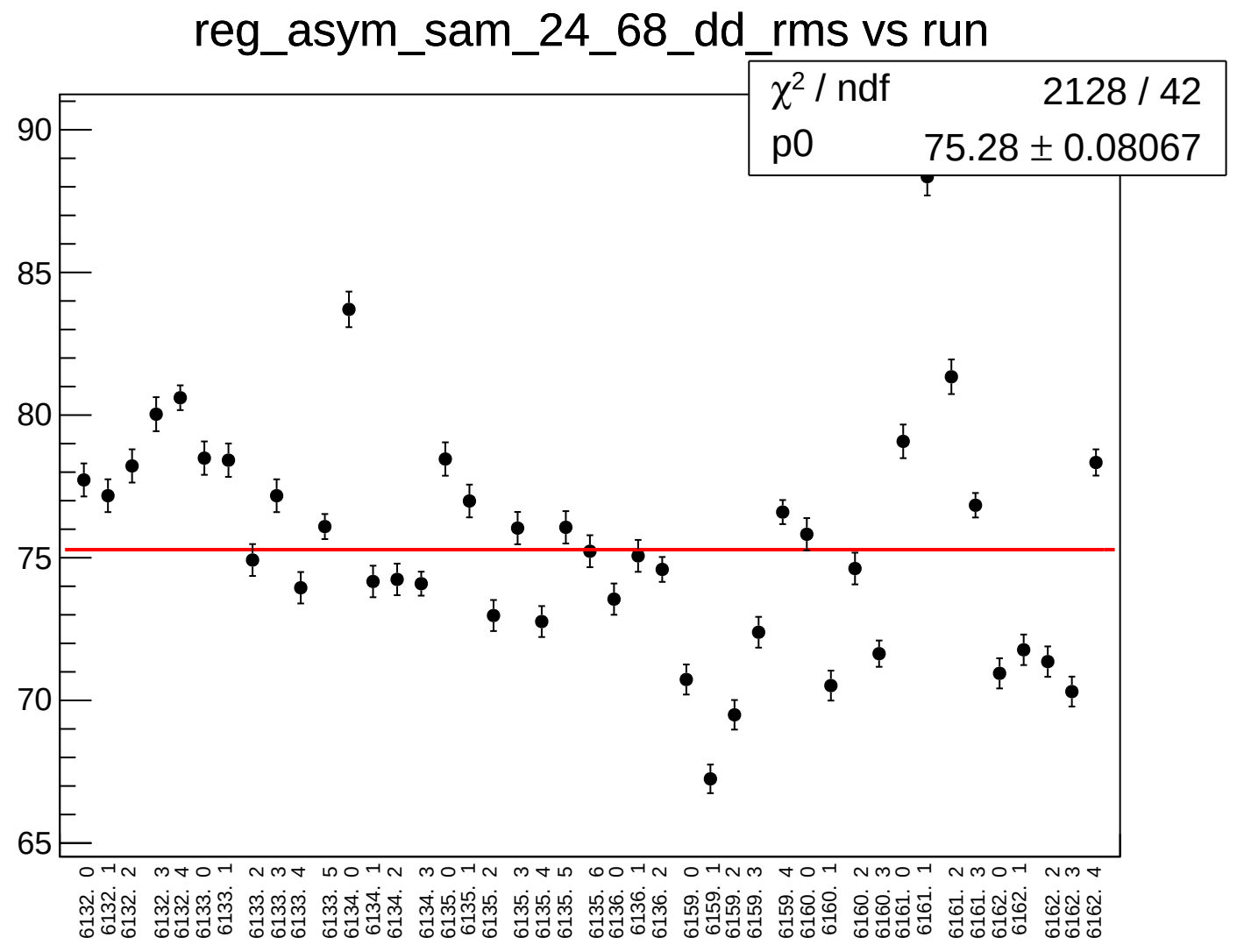

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 2.976e+04 / 42
p0 596 ± 0.6491
1000
900
800
700
600
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

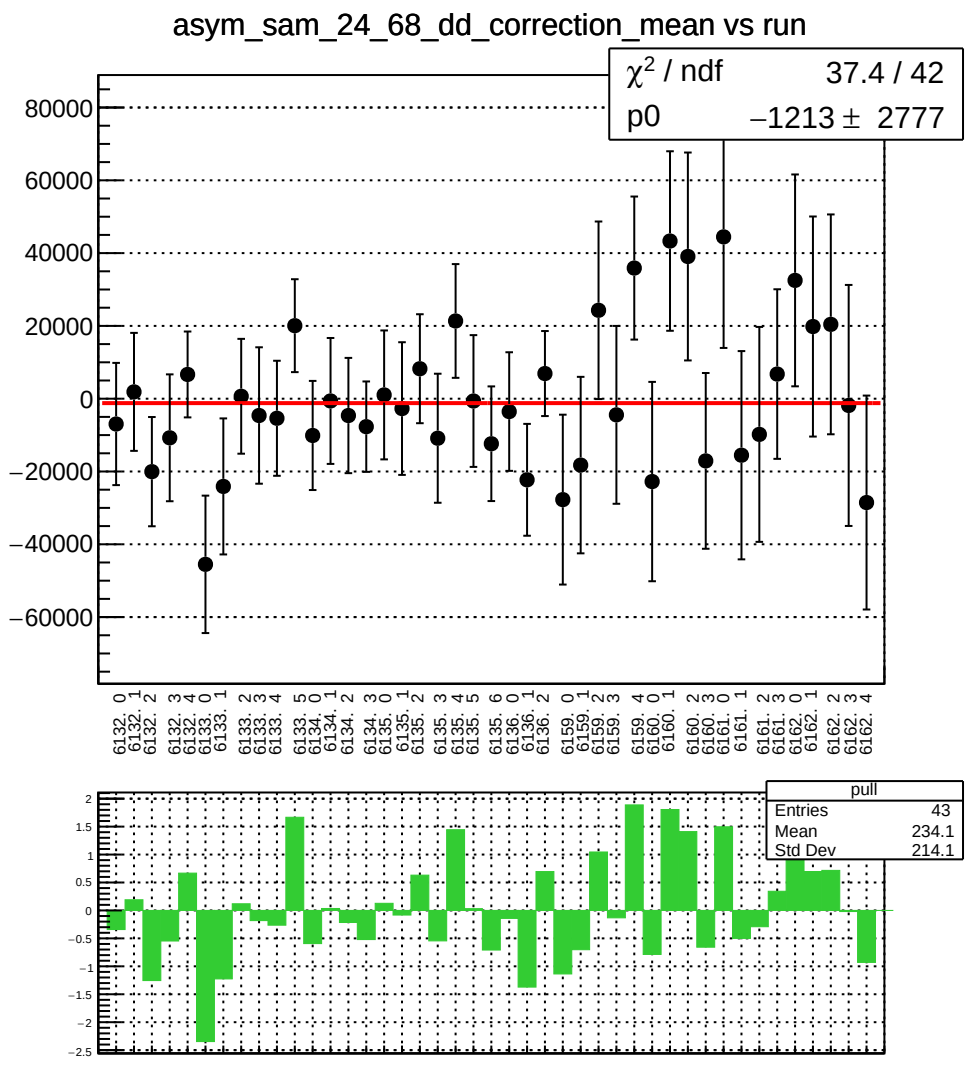

asym_sam_15_37_dd_mean vs run
χ² / ndf 38.36 / 42
p0 −469.8 ± 920.4
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −4245
Std Dev 4264
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0007257
Std Dev 0.9446
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

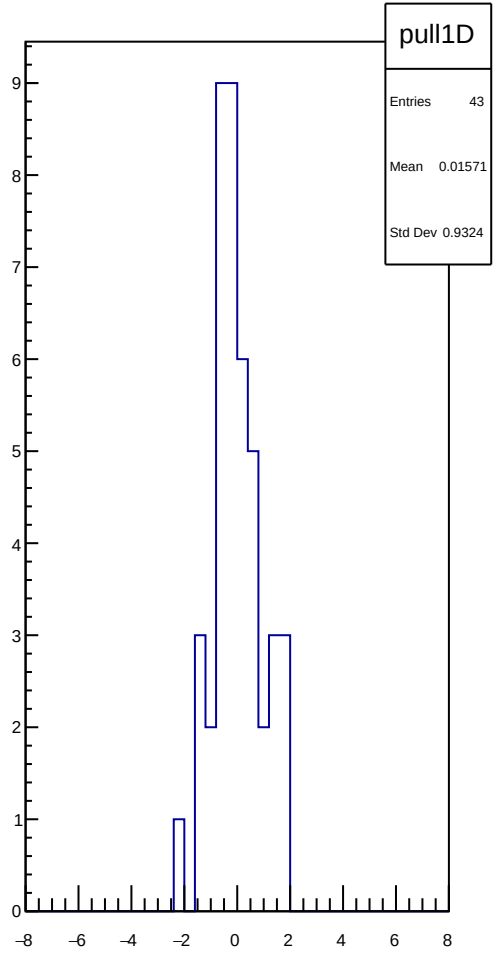

asym_sam_15_37_dd_rms vs run
χ² / ndf 2.965e+04 / 42
p0 597.7 ± 0.6508
1000
900
800
700
600
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

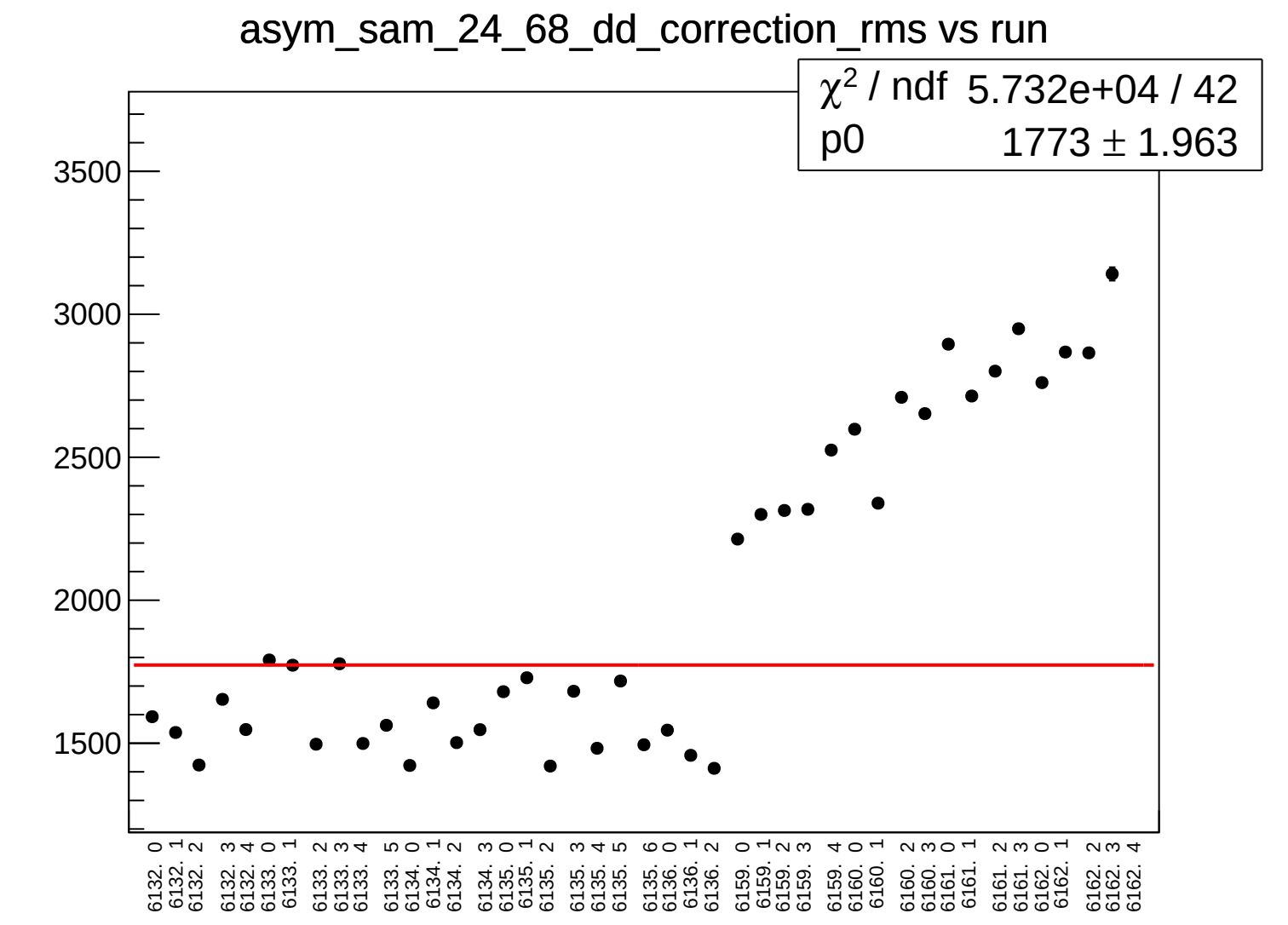

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 59.33 / 42
p0 −127 ± 114.1
2000
1000
0
−1000
−2000
−3000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −32.34
Std Dev 59.94
2
1
0
−1
−2
−3

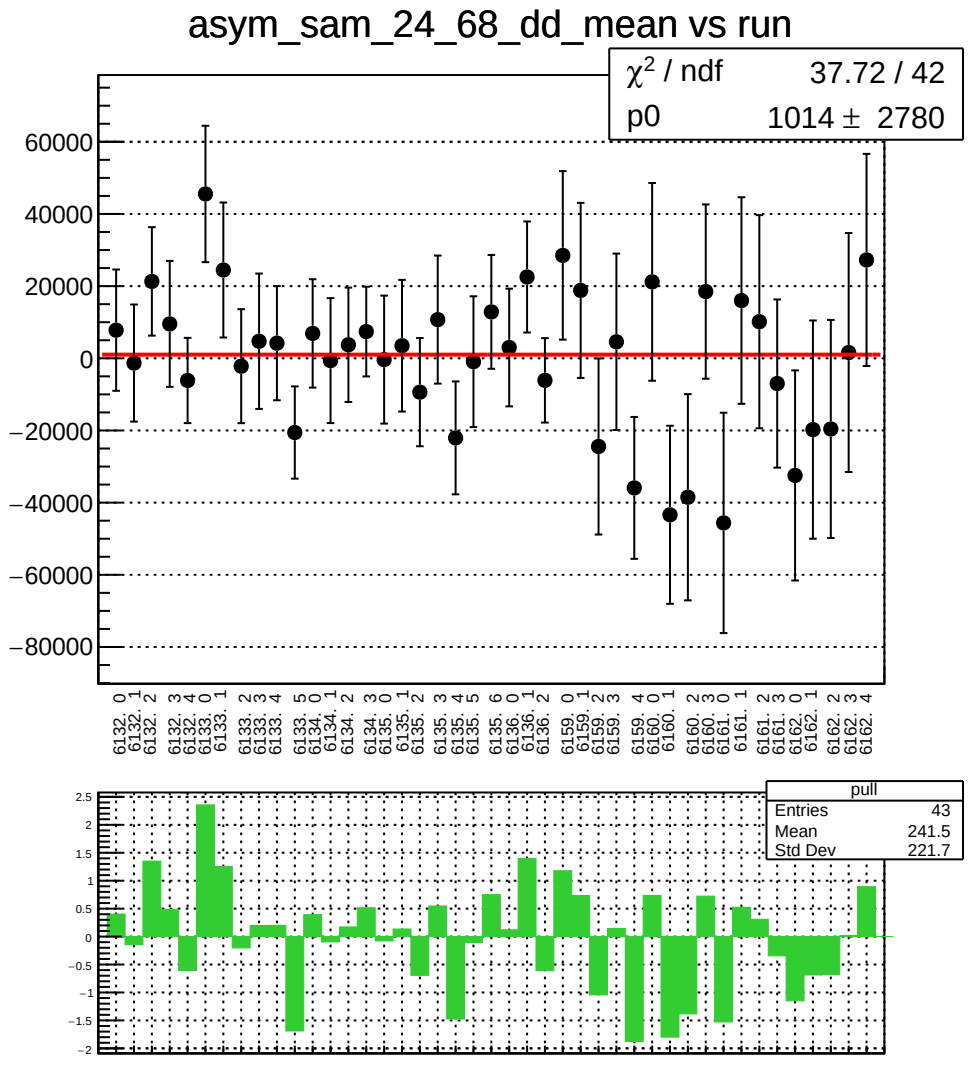

pull1D
Entries 43
Mean −0.02176
Std Dev 1.174
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

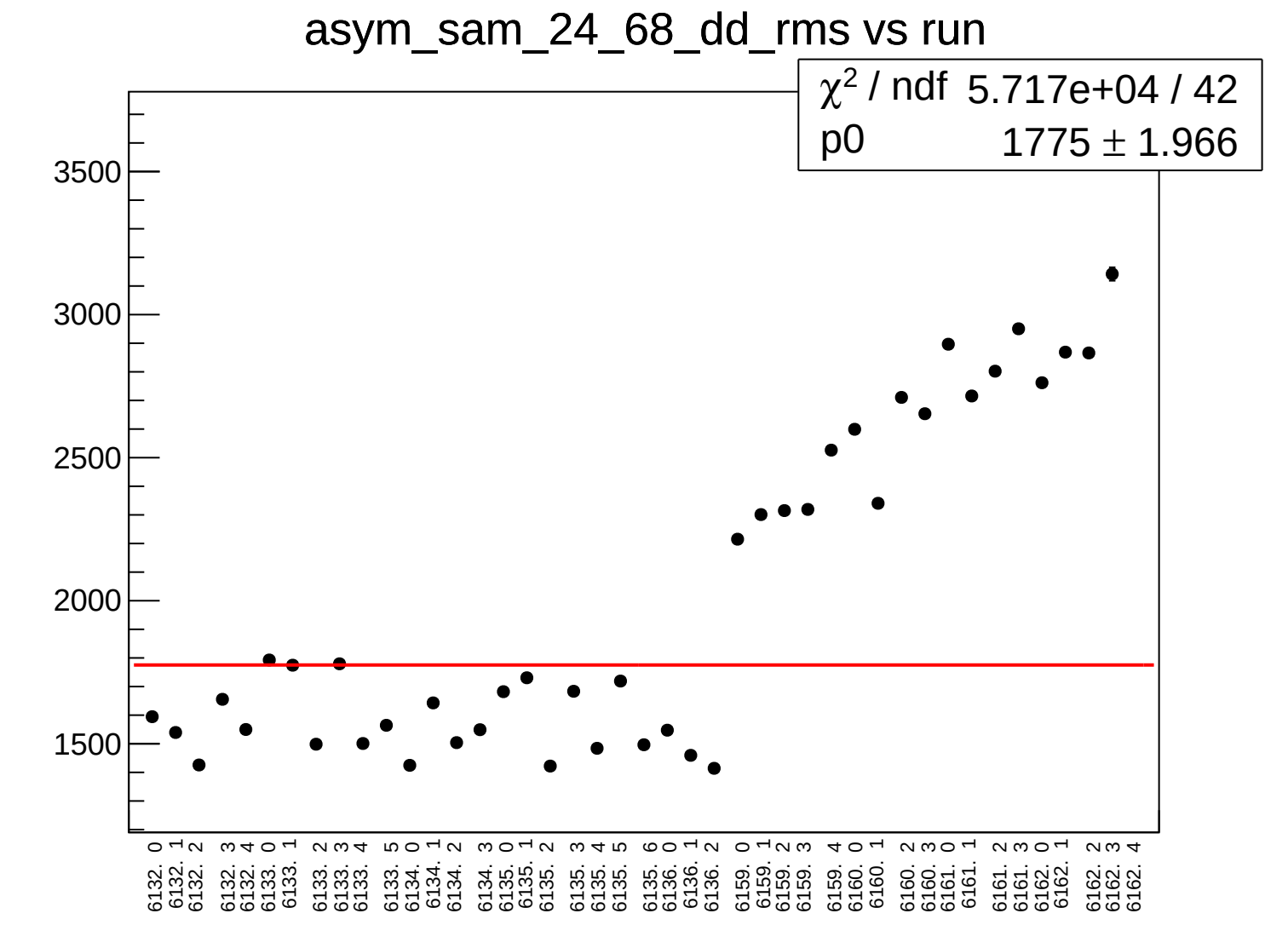

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 2128 / 42
p0 75.28 ± 0.08067
90
85
80
75
70
65
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

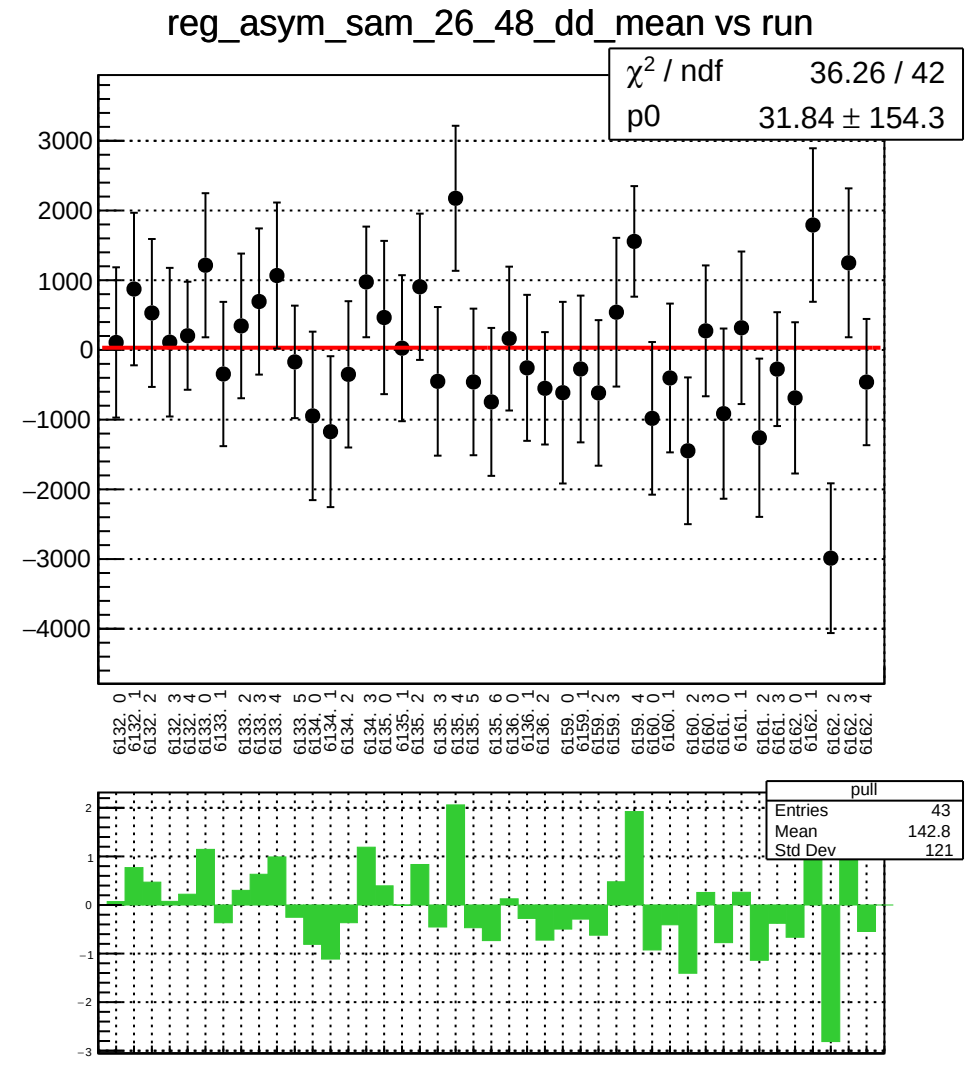

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 37.4 / 42
p0 −1213 ± 2777
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 234.1
Std Dev 214.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

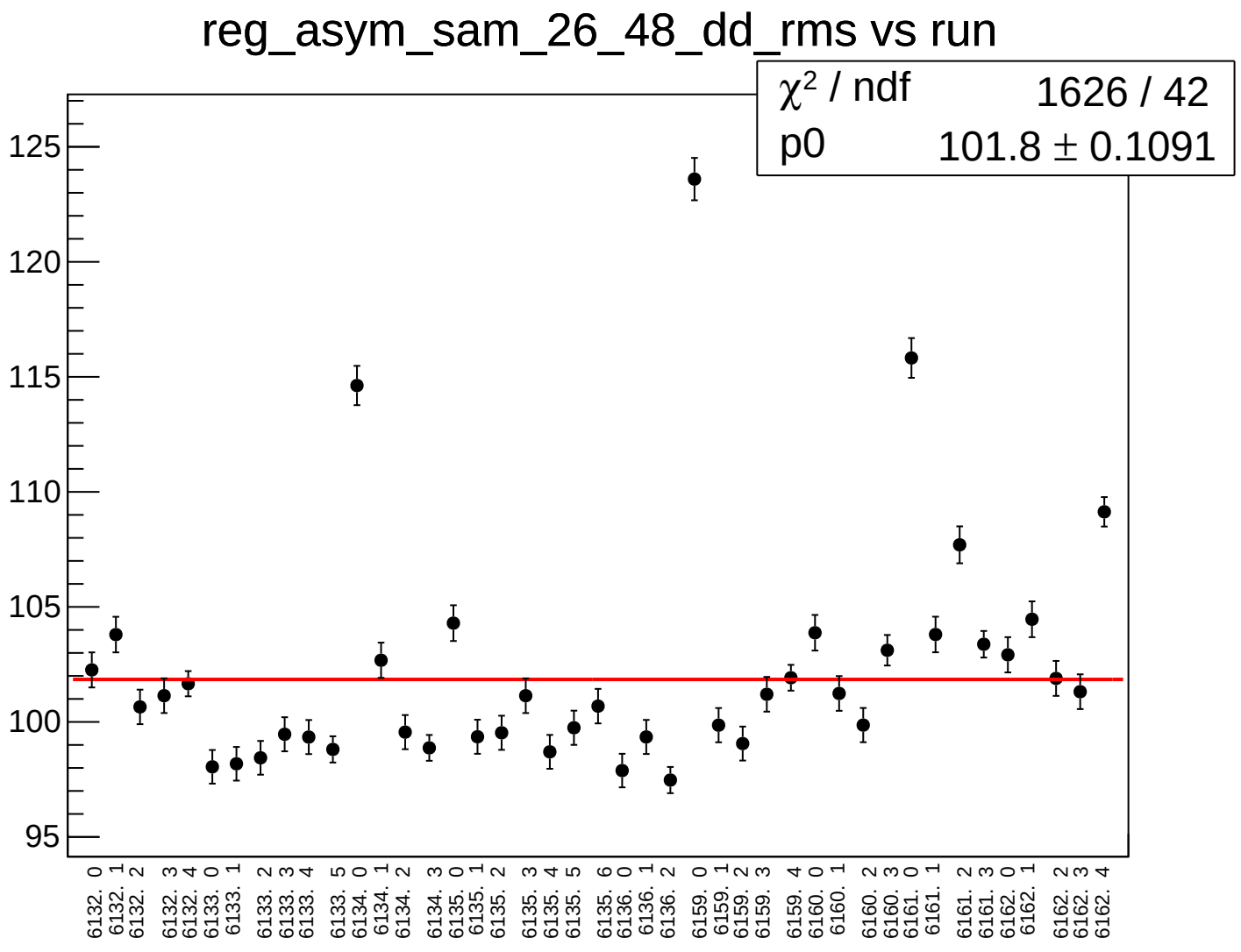

pull1D
Entries 43
Mean 0.01571
Std Dev 0.9324
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

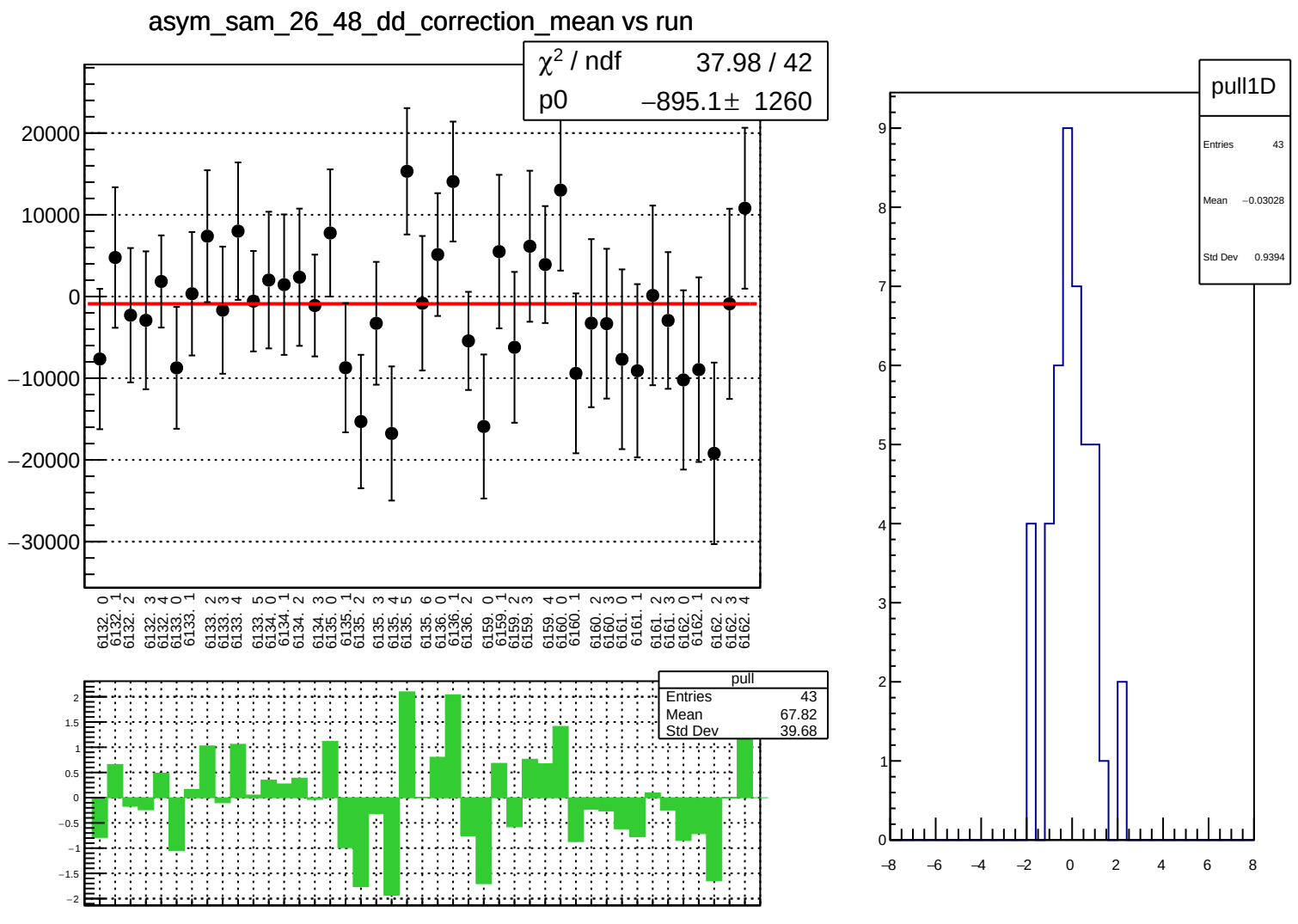

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 5.732e+04 / 42
p0 1773 ± 1.963
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

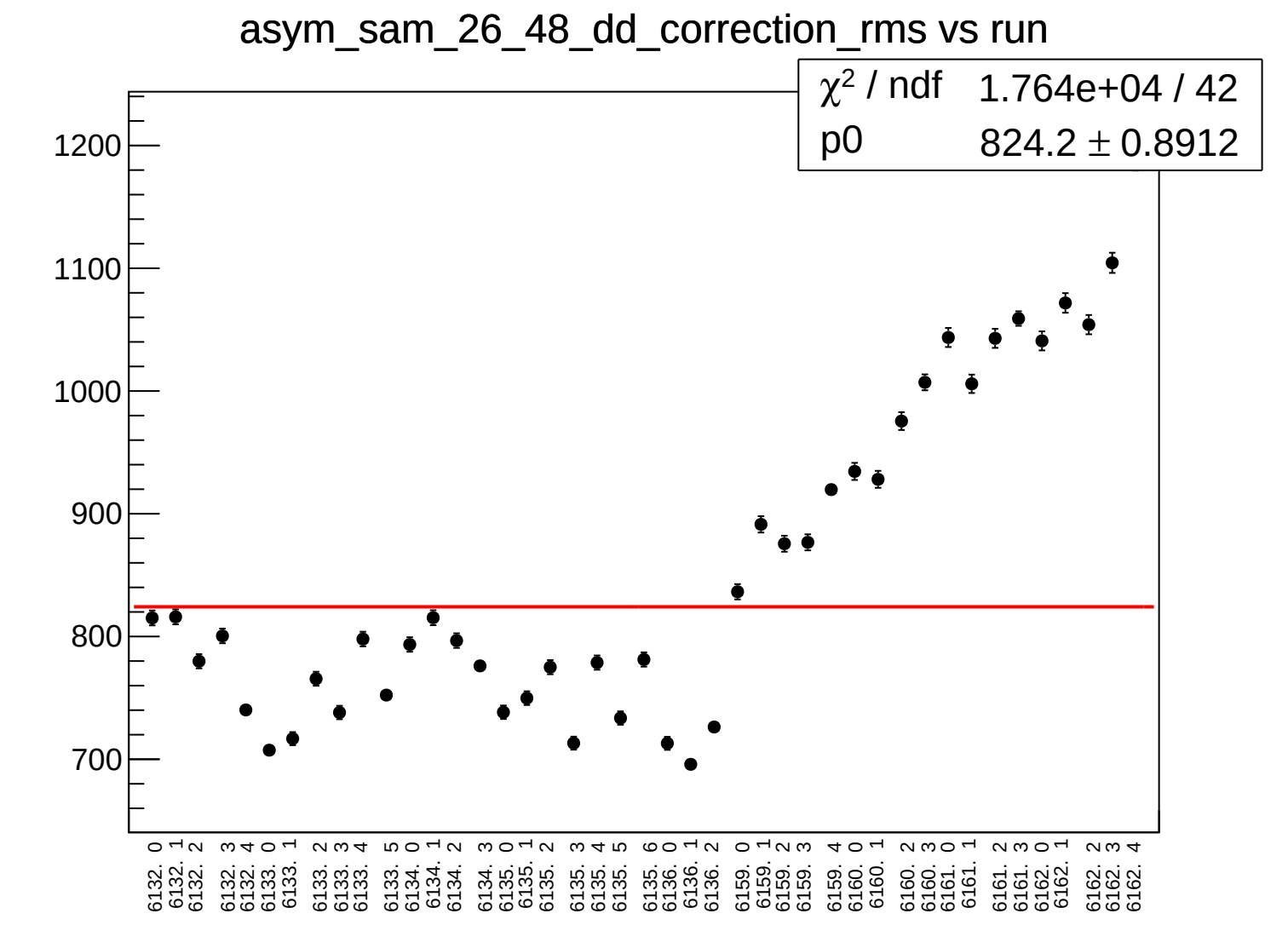

asym_sam_24_68_dd_mean vs run
χ² / ndf 37.72 / 42
p0 1014 ± 2780
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 241.5
Std Dev 221.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01498
Std Dev 0.9365
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

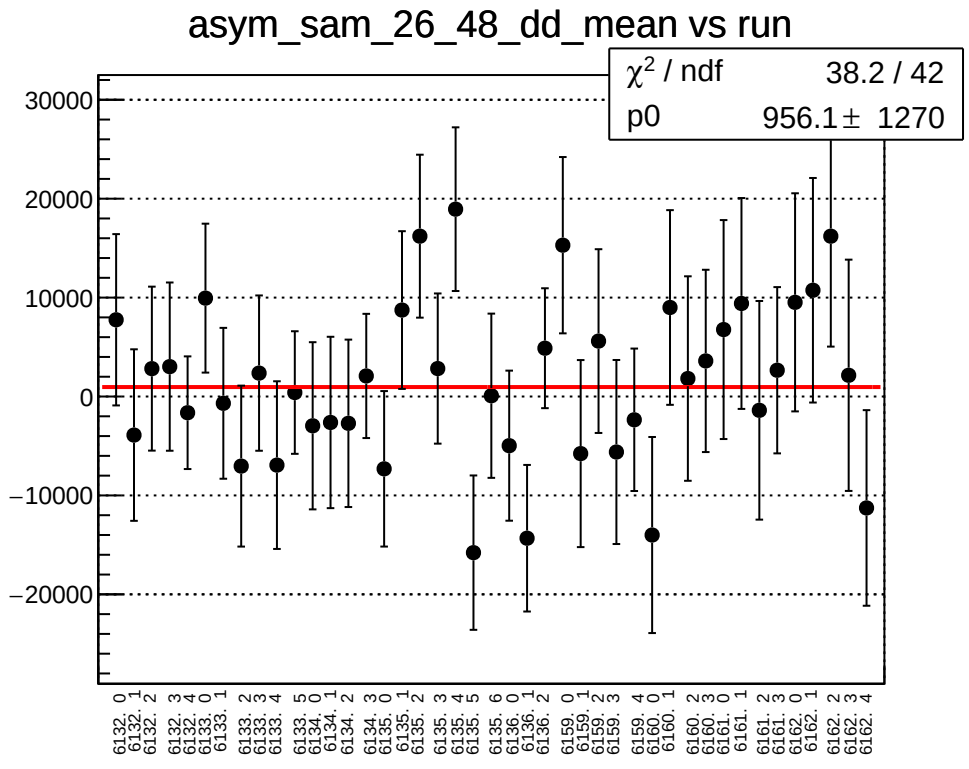

asym_sam_24_68_dd_rms vs run
χ² / ndf 5.717e+04 / 42
p0 1775 ± 1.966
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

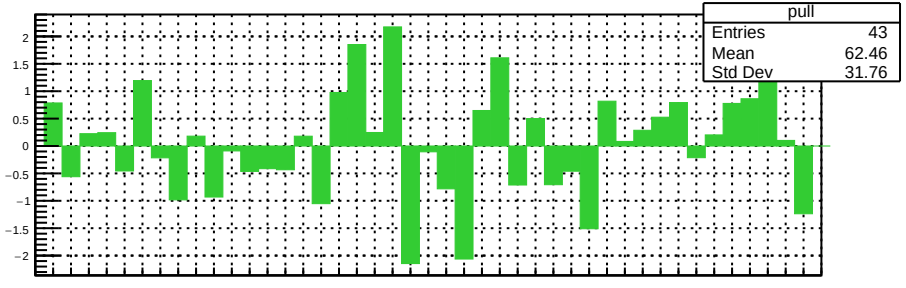

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 36.26 / 42
p0 31.84 ± 154.3
3000
2000
1000
0
−1000
−2000
−3000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 142.8
Std Dev 121
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.02499
Std Dev 0.9179
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

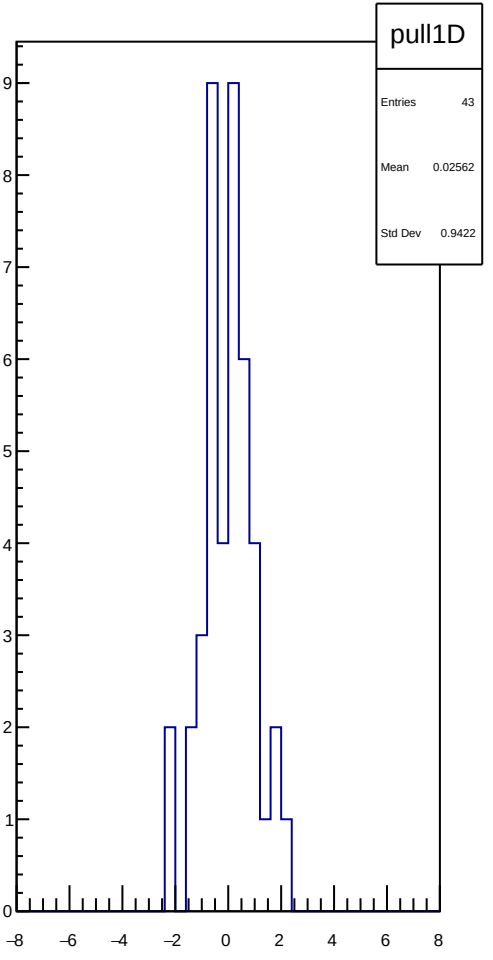

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 1626 / 42
p0 101.8 ± 0.1091
125
120
115
110
105
100
95
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

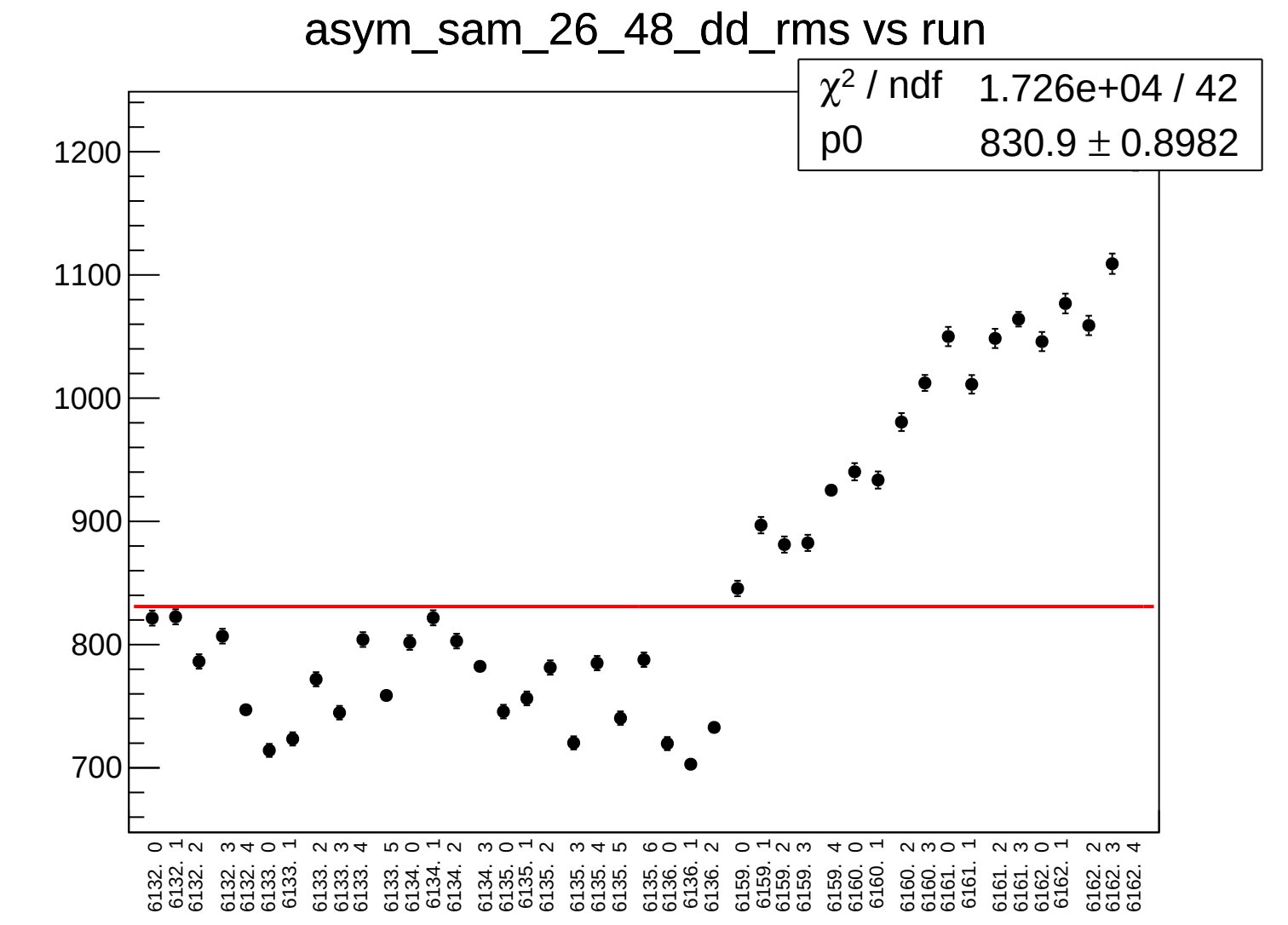

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 37.98 / 42
p0 −895.1± 1260
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 67.82
Std Dev 39.68
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.03028
Std Dev 0.9394
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

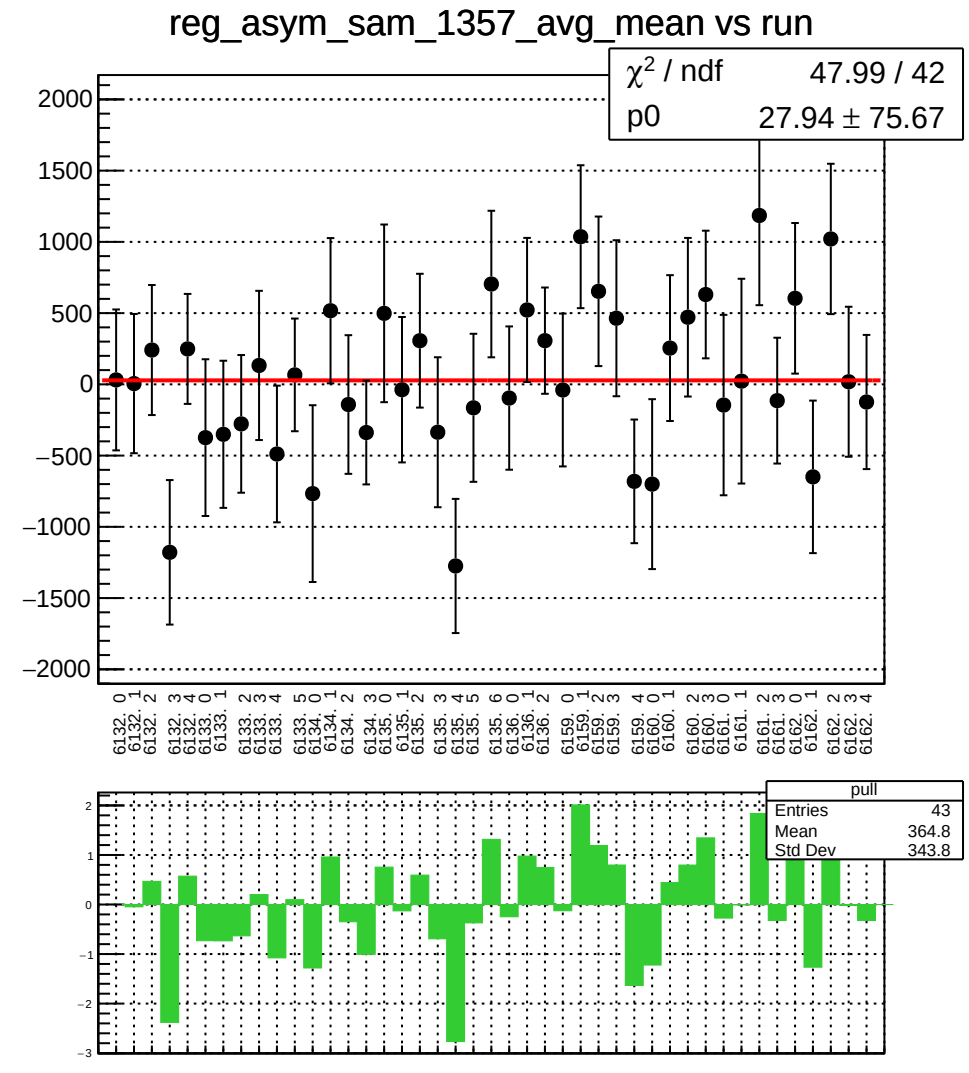

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 1.764e+04 / 42
p0 824.2 ± 0.8912
1200
1100
1000
900
800
700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

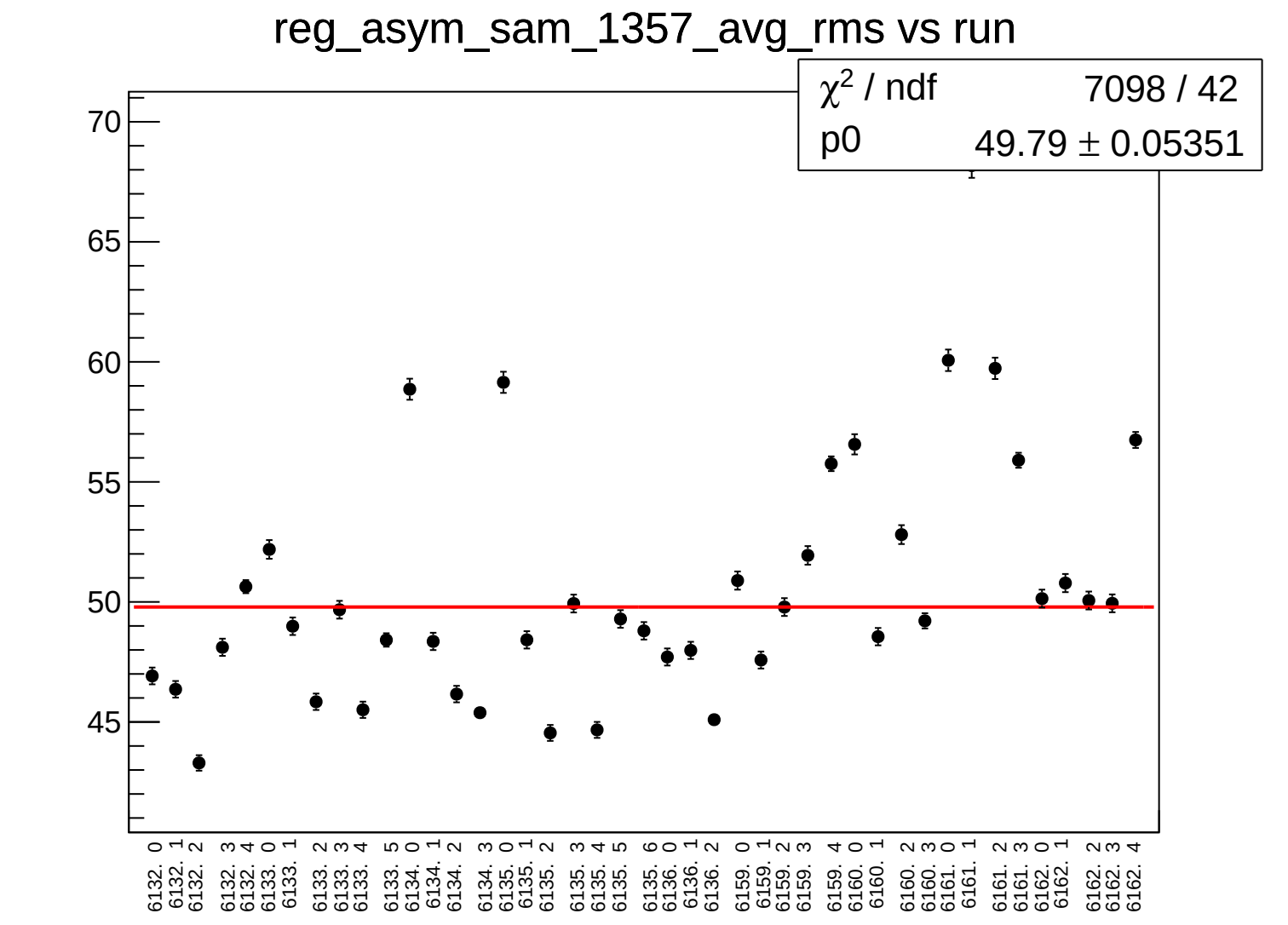

asym_sam_26_48_dd_mean vs run
χ² / ndf 38.2 / 42
p0 956.1 ± 1270
30000
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

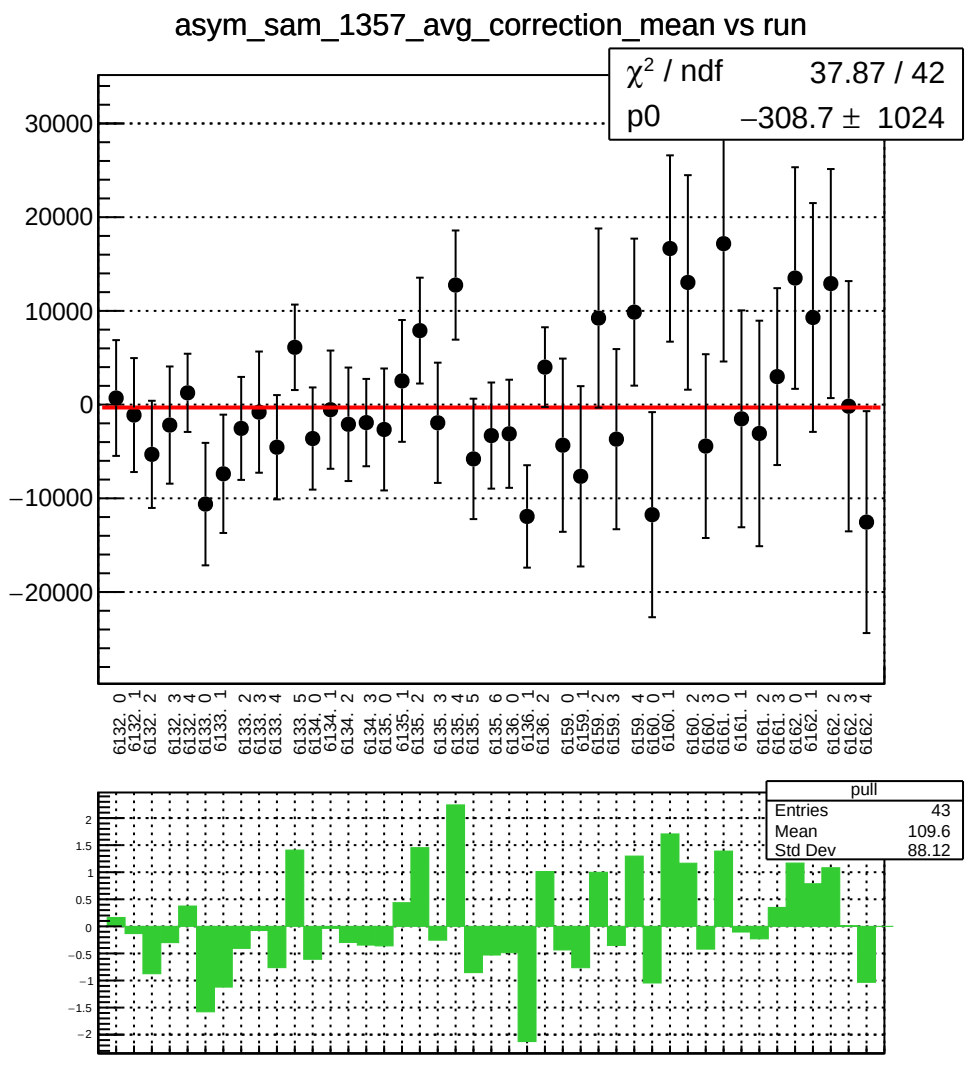

pull
Entries 43
Mean 62.46
Std Dev 31.76
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

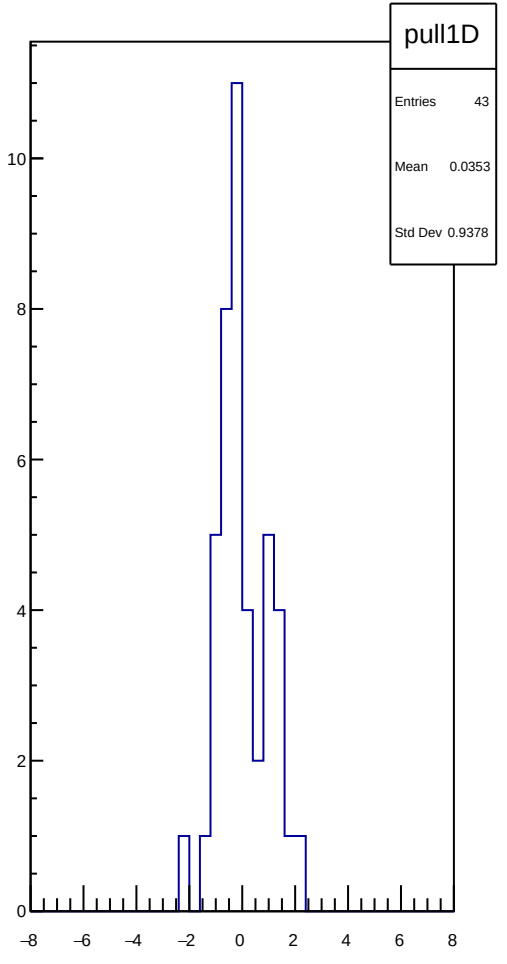

pull1D
Entries 43
Mean 0.02562
Std Dev 0.9422
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

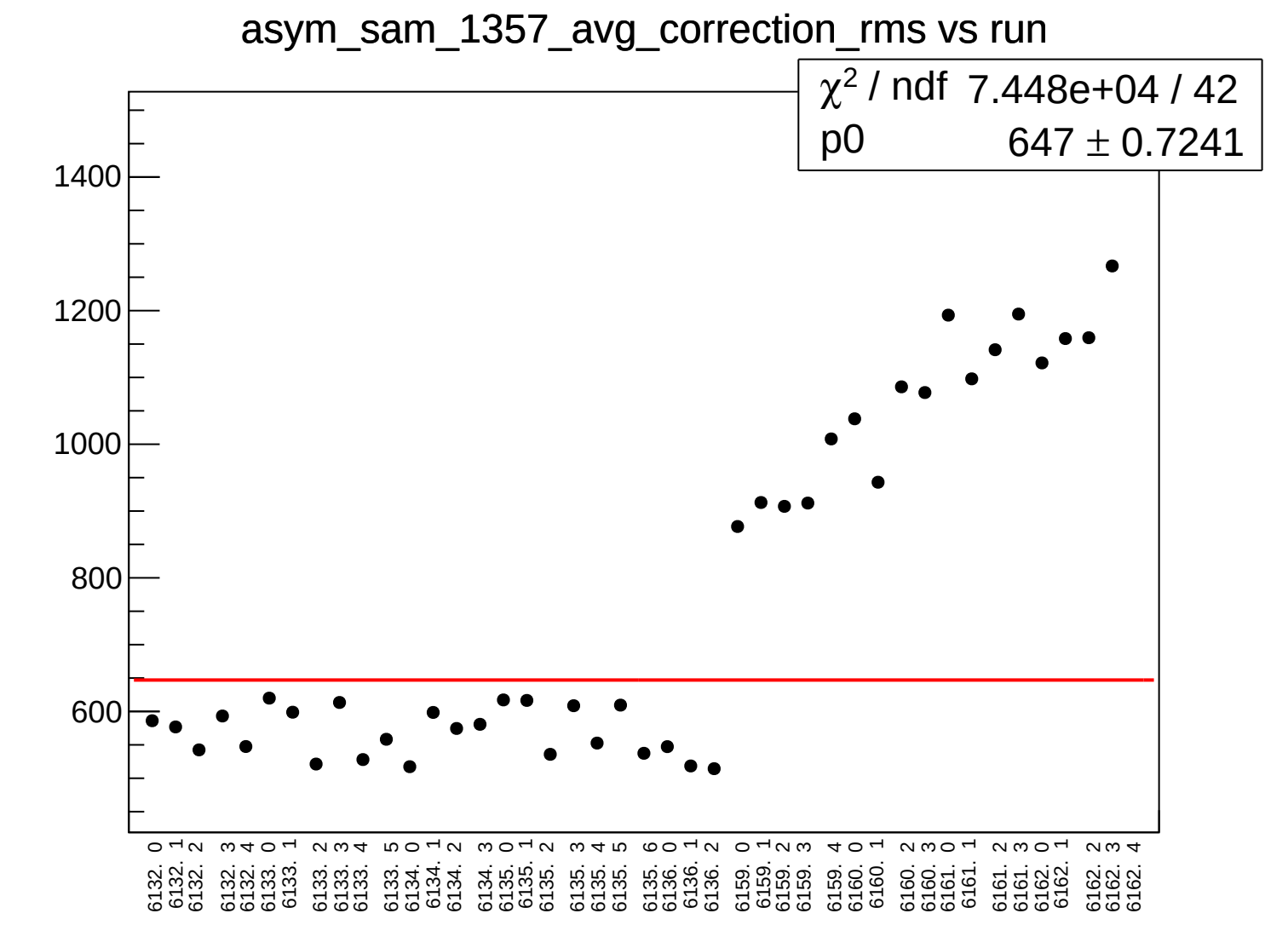

asym_sam_26_48_dd_rms vs run
χ² / ndf 1.726e+04 / 42
p0 830.9 ± 0.8982
1200
1100
1000
900
800
700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

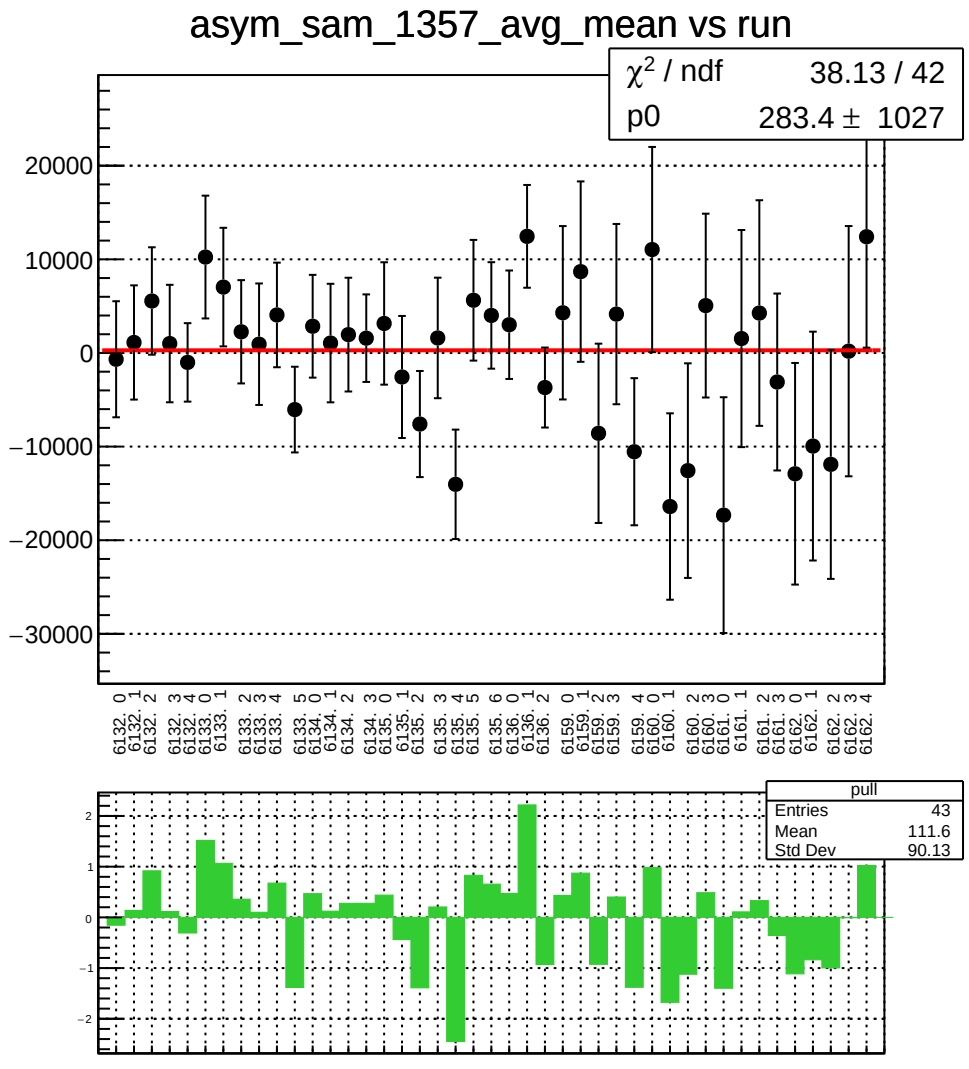

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 47.99 / 42
p0 27.94 ± 75.67
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 364.8
Std Dev 343.8
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.01058
Std Dev 1.056
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

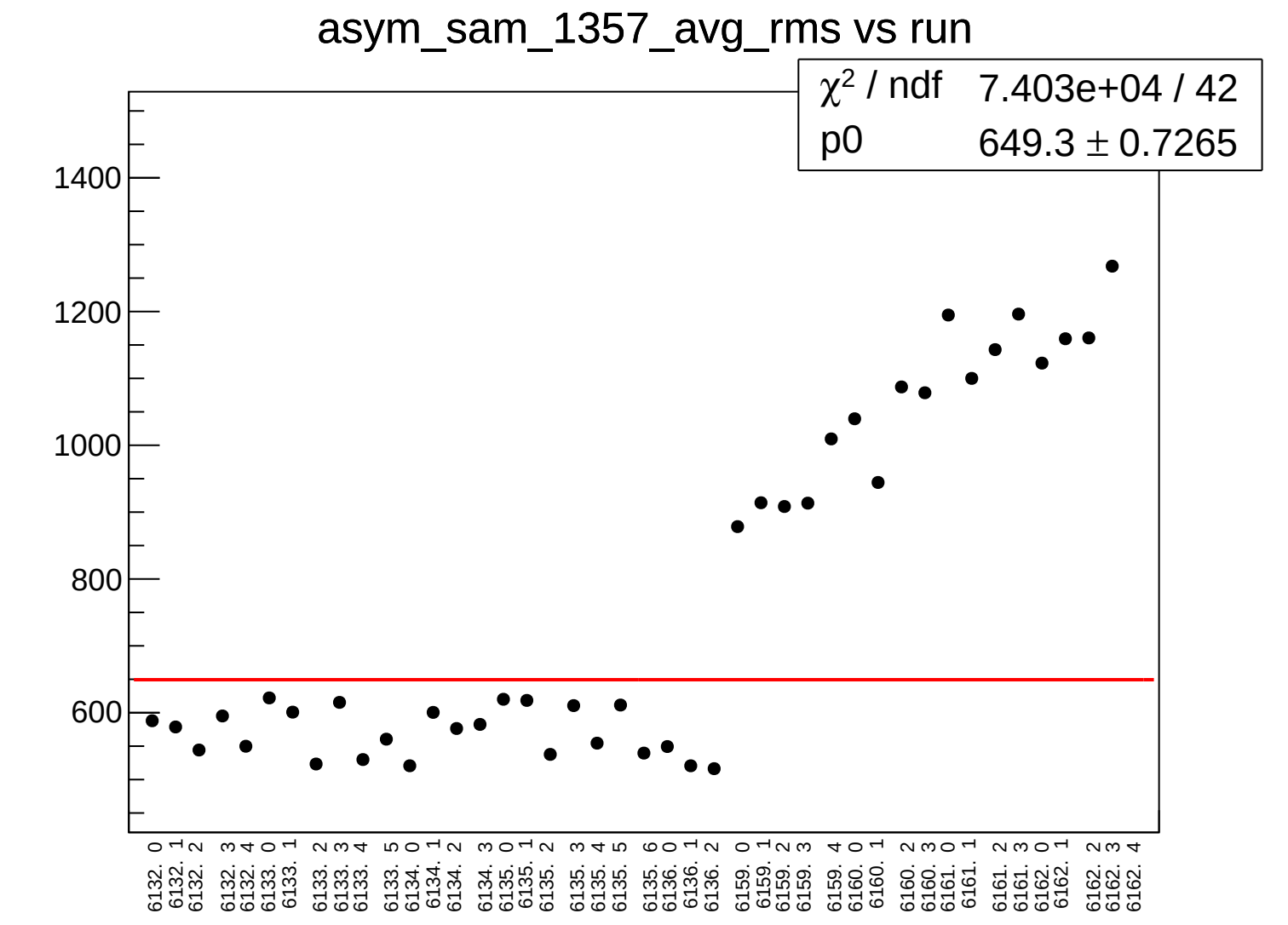

reg_asym_sam_1357_avg_rms vs run
χ2 / ndf 7098 / 42
p0 49.79 ± 0.05351
70
65
60
55
50
45
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

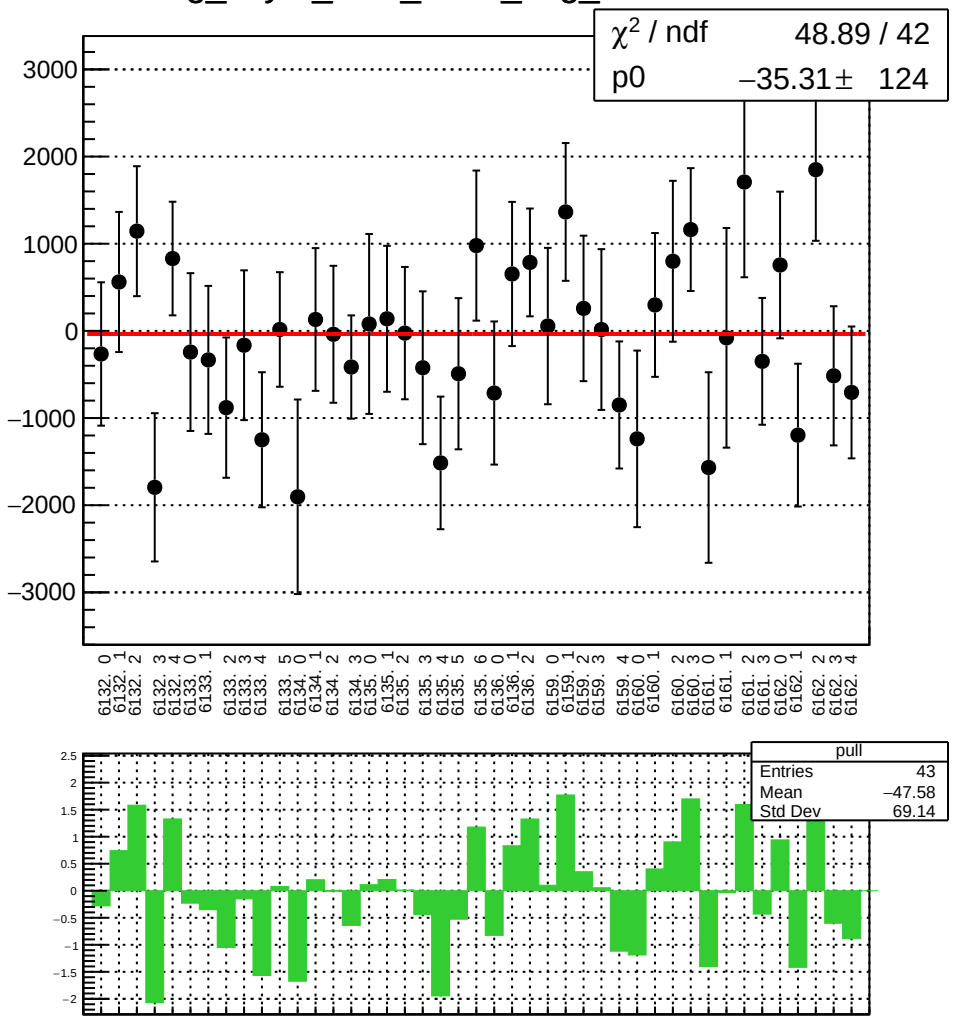

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 37.87 / 42
p0 −308.7 ± 1024
30000
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 109.6
Std Dev 88.12
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

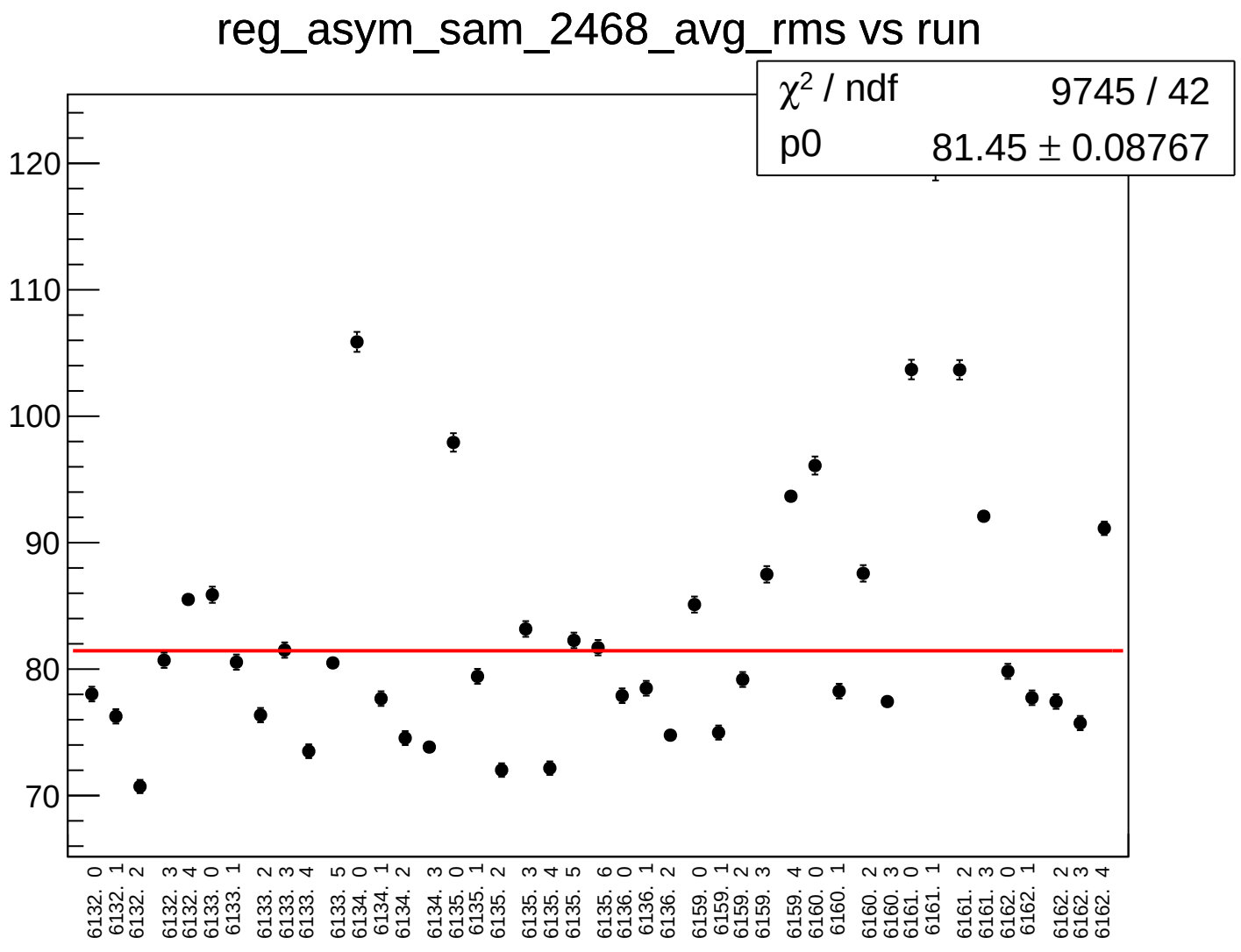

pull1D
Entries 43
Mean 0.0353
Std Dev 0.9378
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

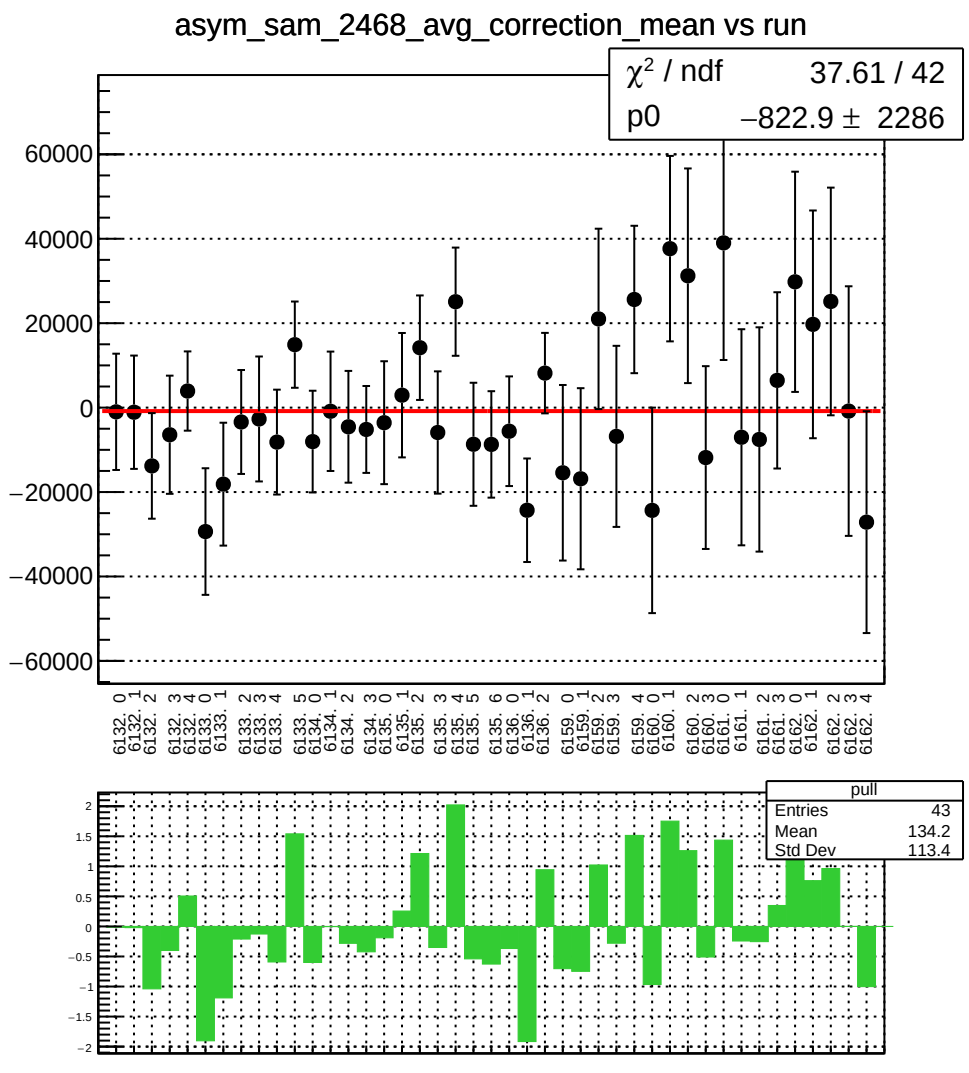

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 7.448e+04 / 42
p0 647 ± 0.7241
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

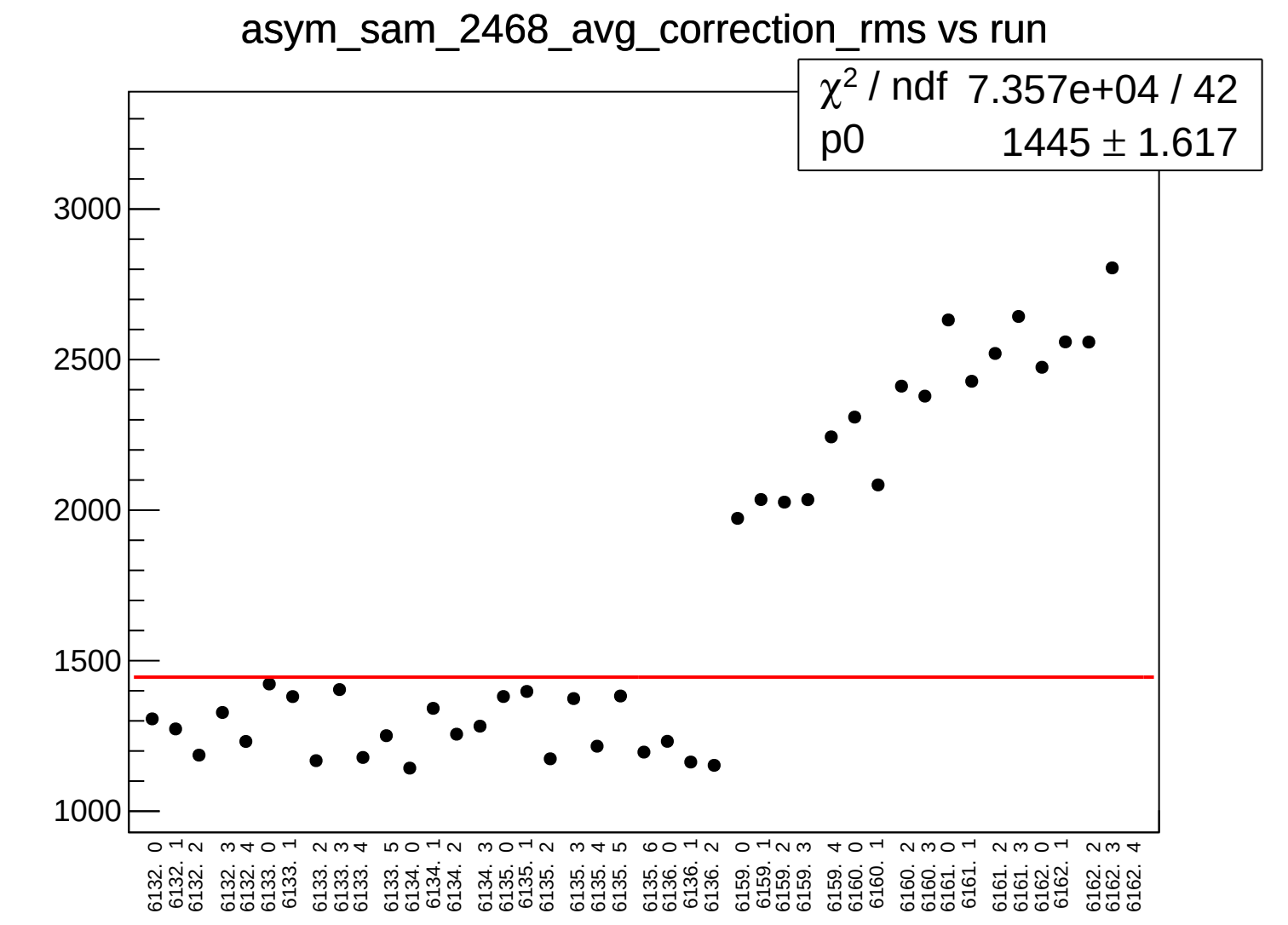

asym_sam_1357_avg_mean vs run
χ² / ndf 38.13 / 42
p0 283.4 ± 1027
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 111.6
Std Dev 90.13
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03193
Std Dev 0.9412
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

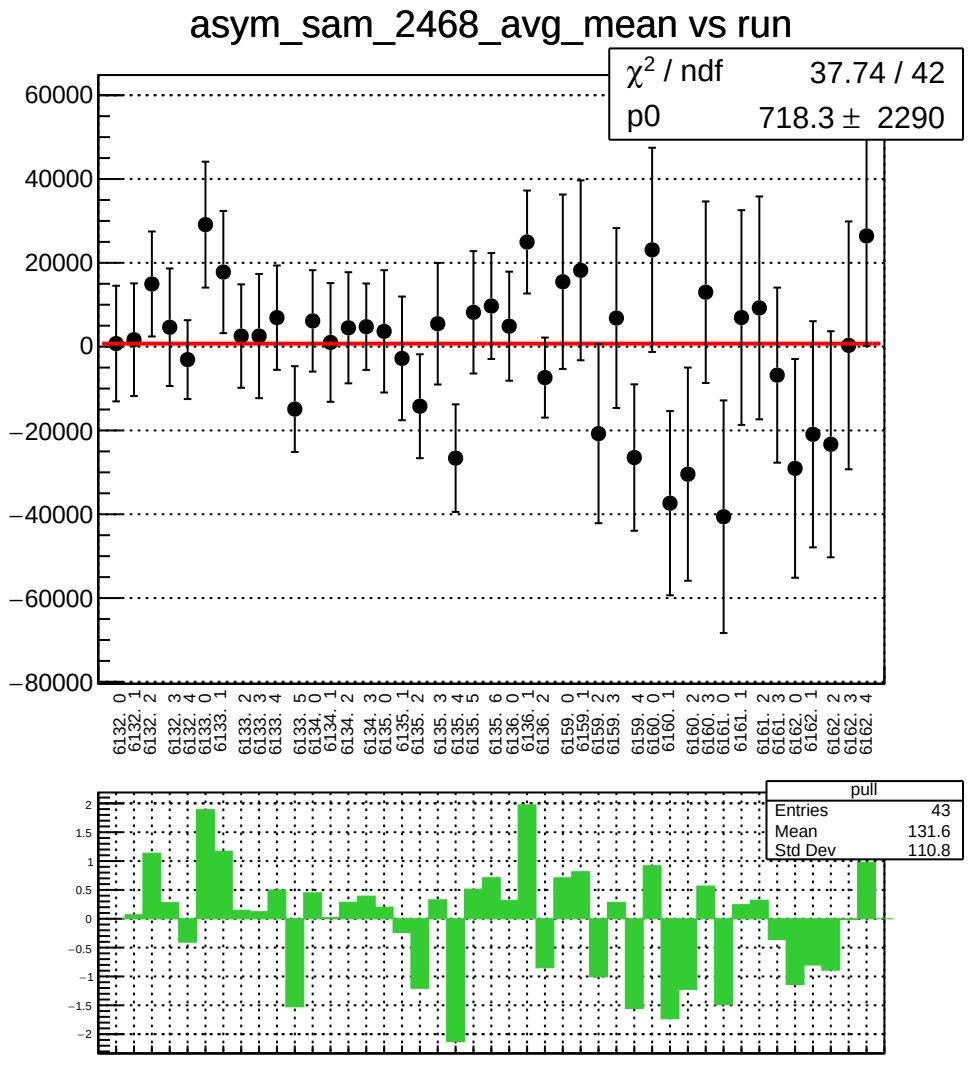

asym_sam_1357_avg_rms vs run
χ² / ndf 7.403e+04 / 42
p0 649.3 ± 0.7265
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

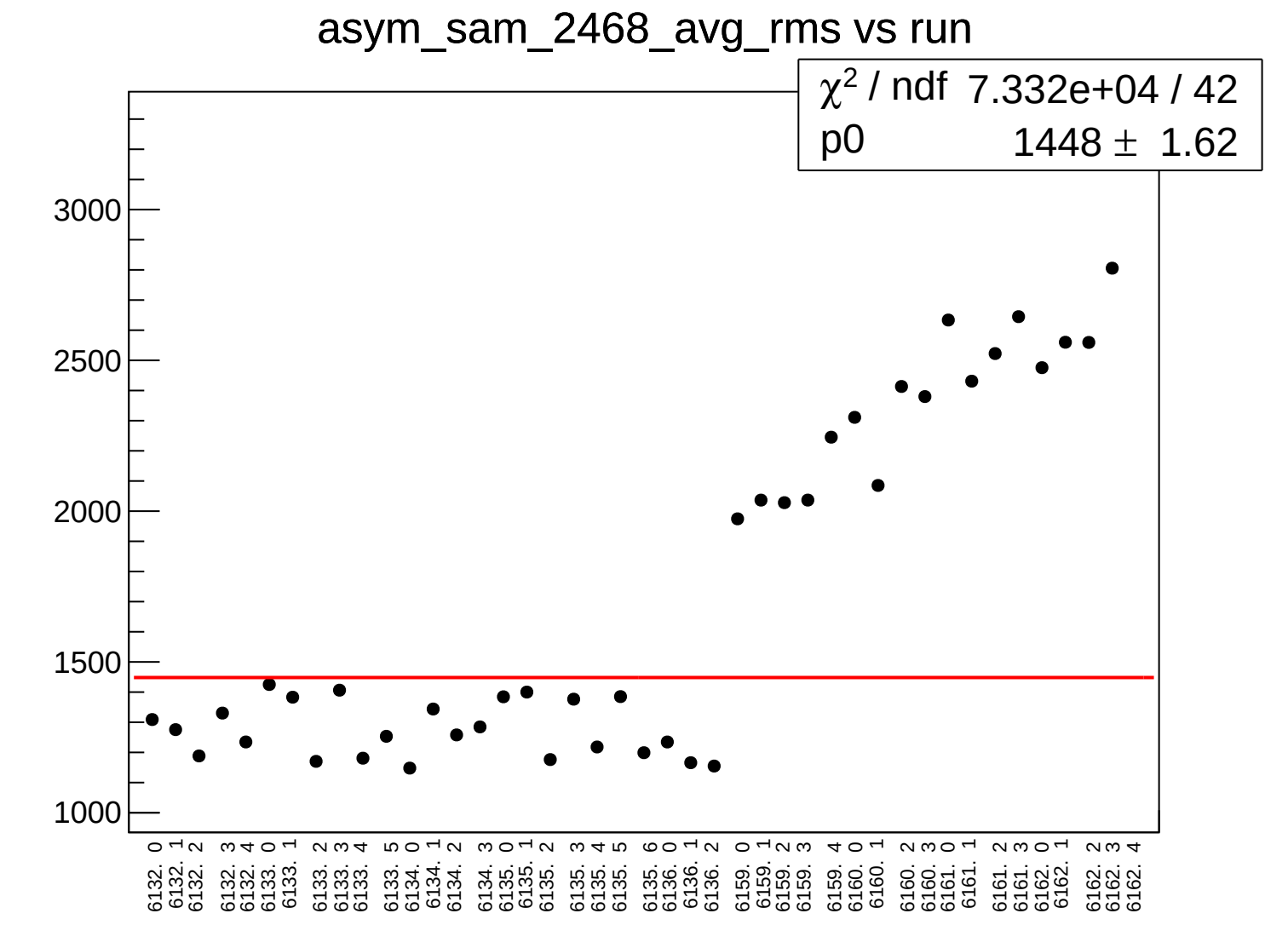

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 48.89 / 42
p0 −35.31 ± 124
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −47.58
Std Dev 69.14
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.02554
Std Dev 1.066
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

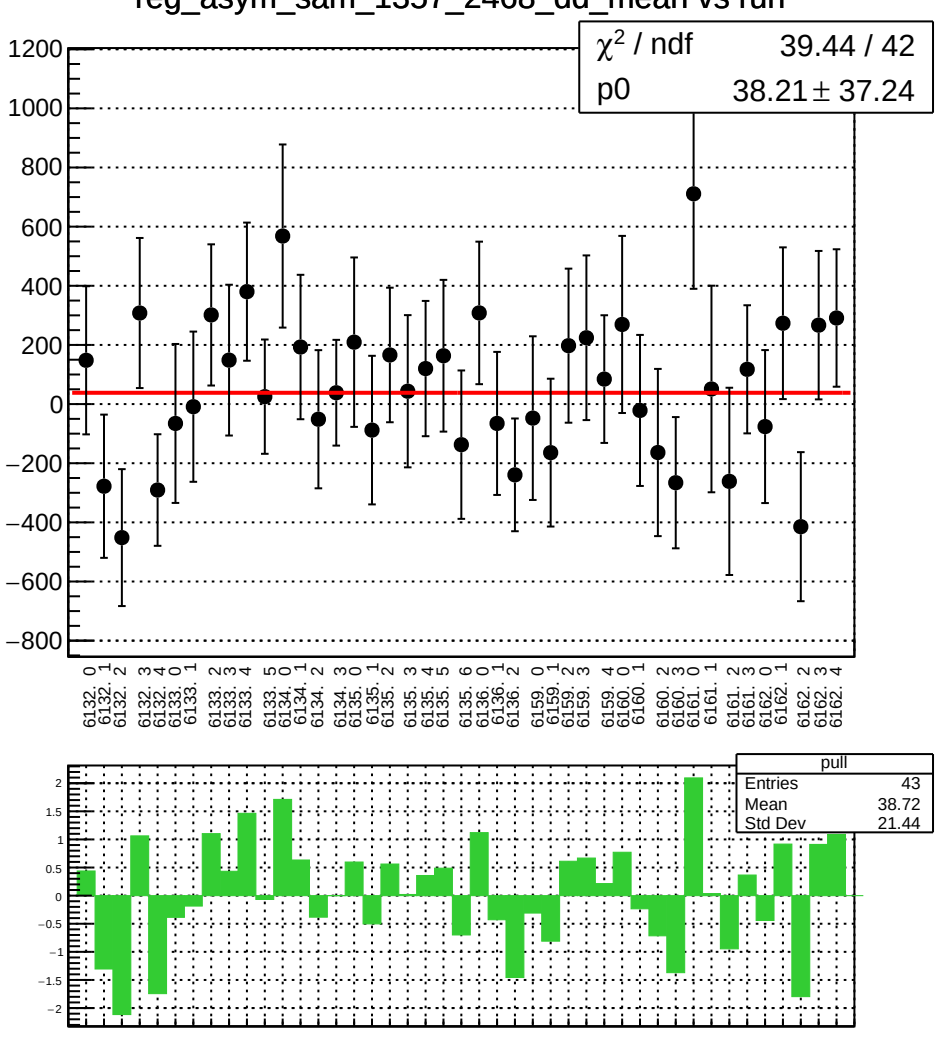

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 9745 / 42
p0 81.45 ± 0.08767
120
110
100
90
80
70
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

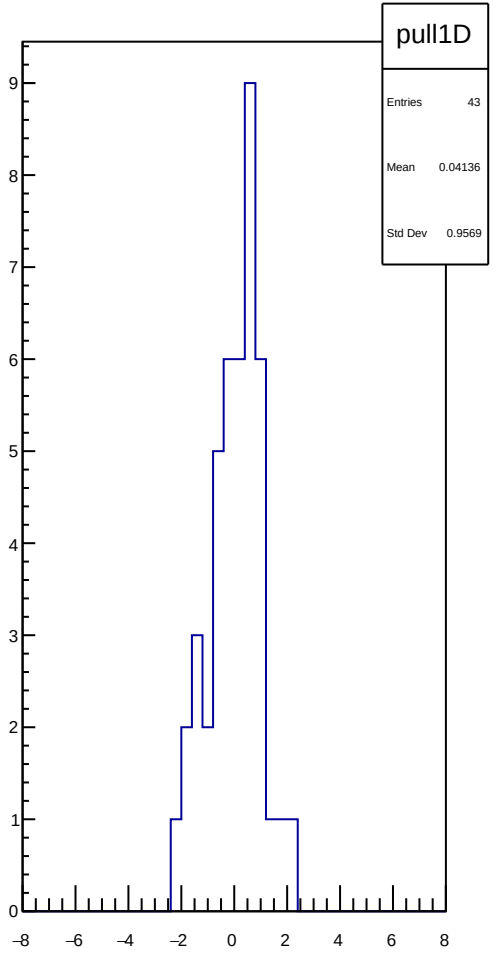

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 37.61 / 42
p0 −822.9 ± 2286
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 134.2
Std Dev 113.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.02863
Std Dev 0.9348
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

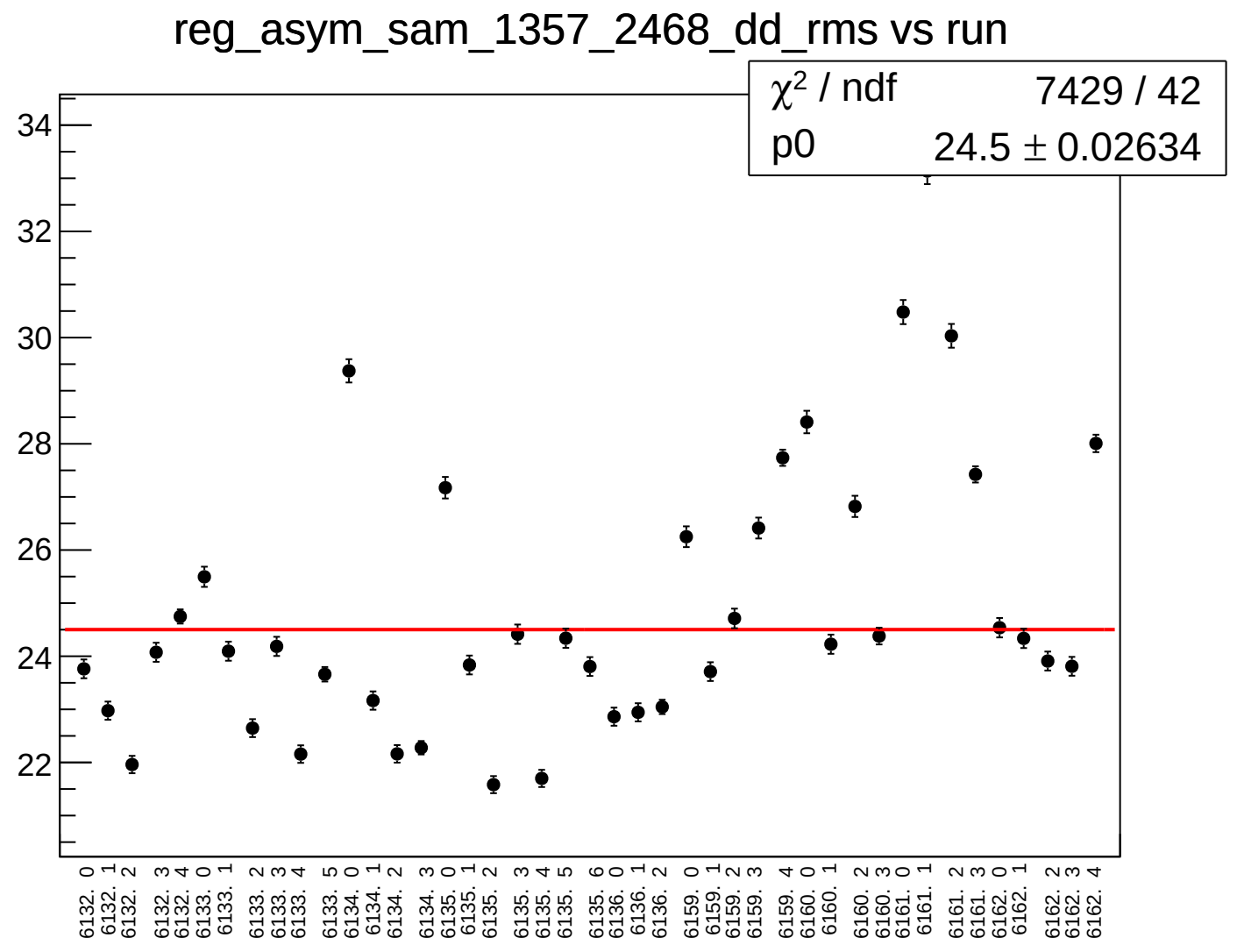

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 7.357e+04 / 42
p0 1445 ± 1.617
3000
2500
2000
1500
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

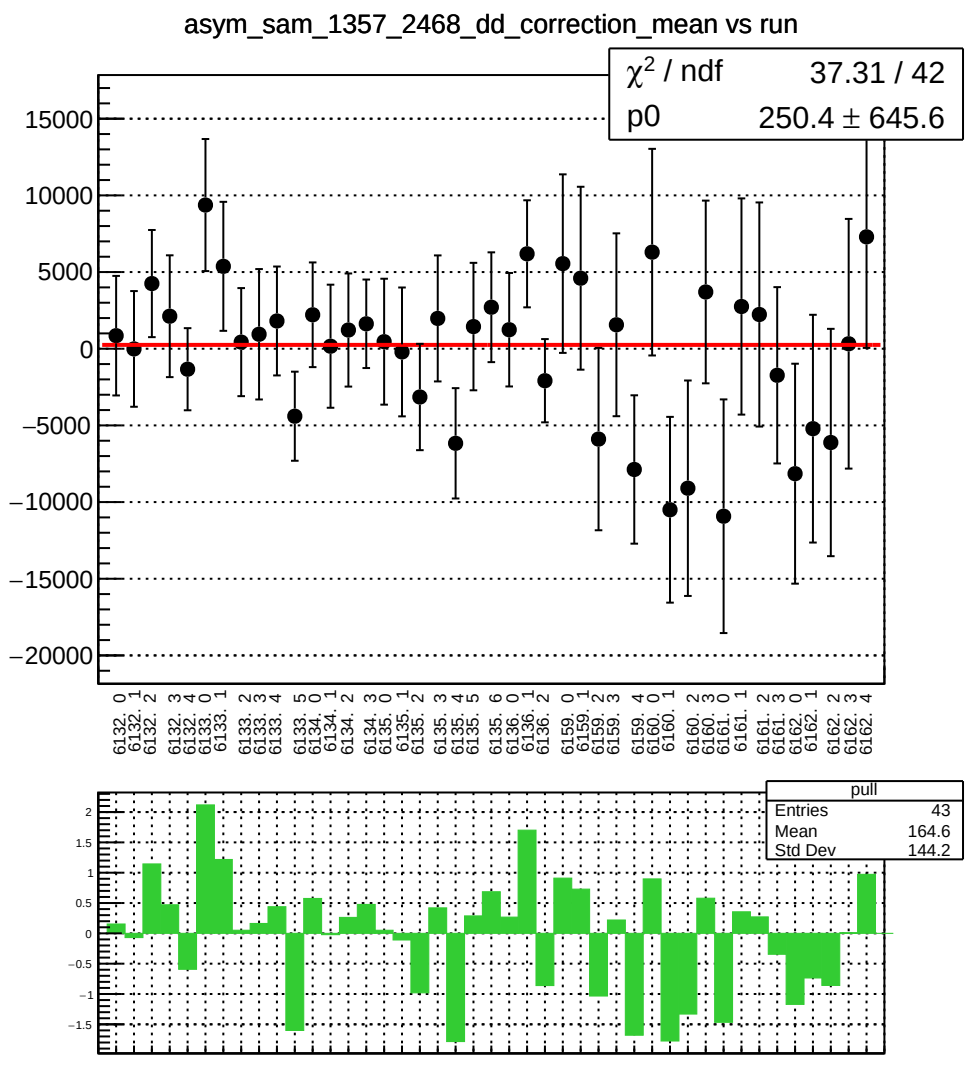

asym_sam_2468_avg_mean vs run
χ² / ndf 37.74 / 42
p0 718.3 ± 2290
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 131.6
Std Dev 110.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.02847
Std Dev 0.9364
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

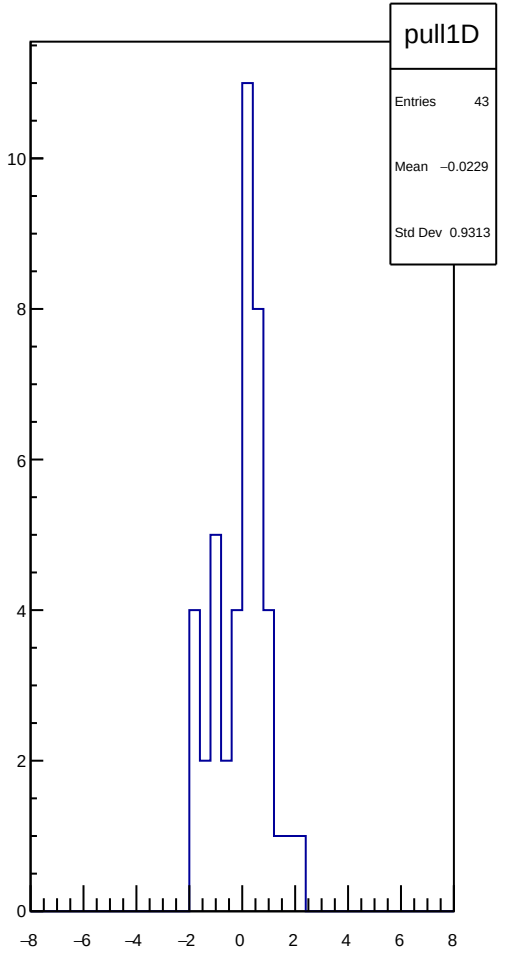

asym_sam_2468_avg_rms vs run
χ² / ndf 7.332e+04 / 42
p0 1448 ± 1.62
3000
2500
2000
1500
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

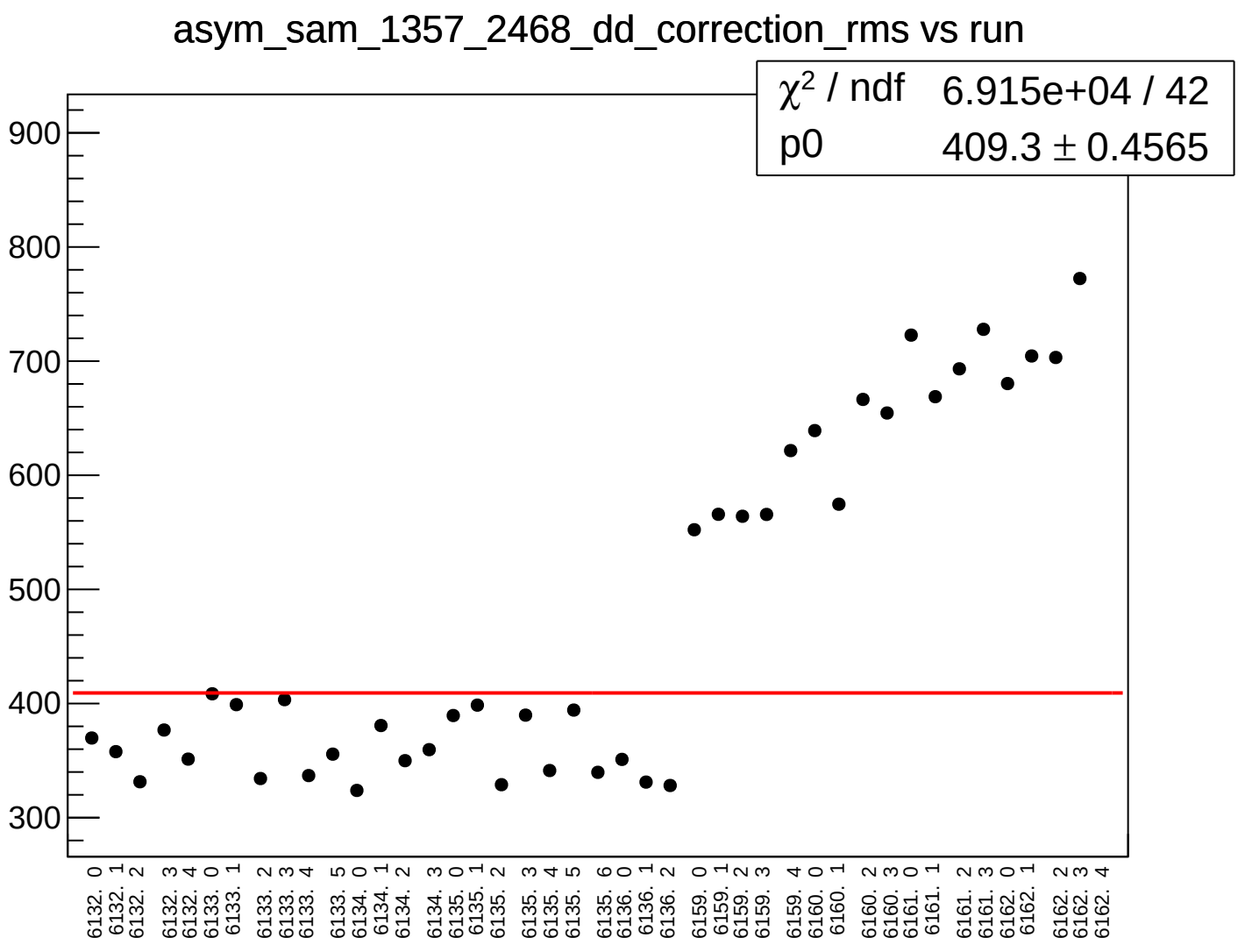

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 39.44 / 42
p0 38.21 ± 37.24
pull
Entries 43
Mean 38.72
Std Dev 21.44

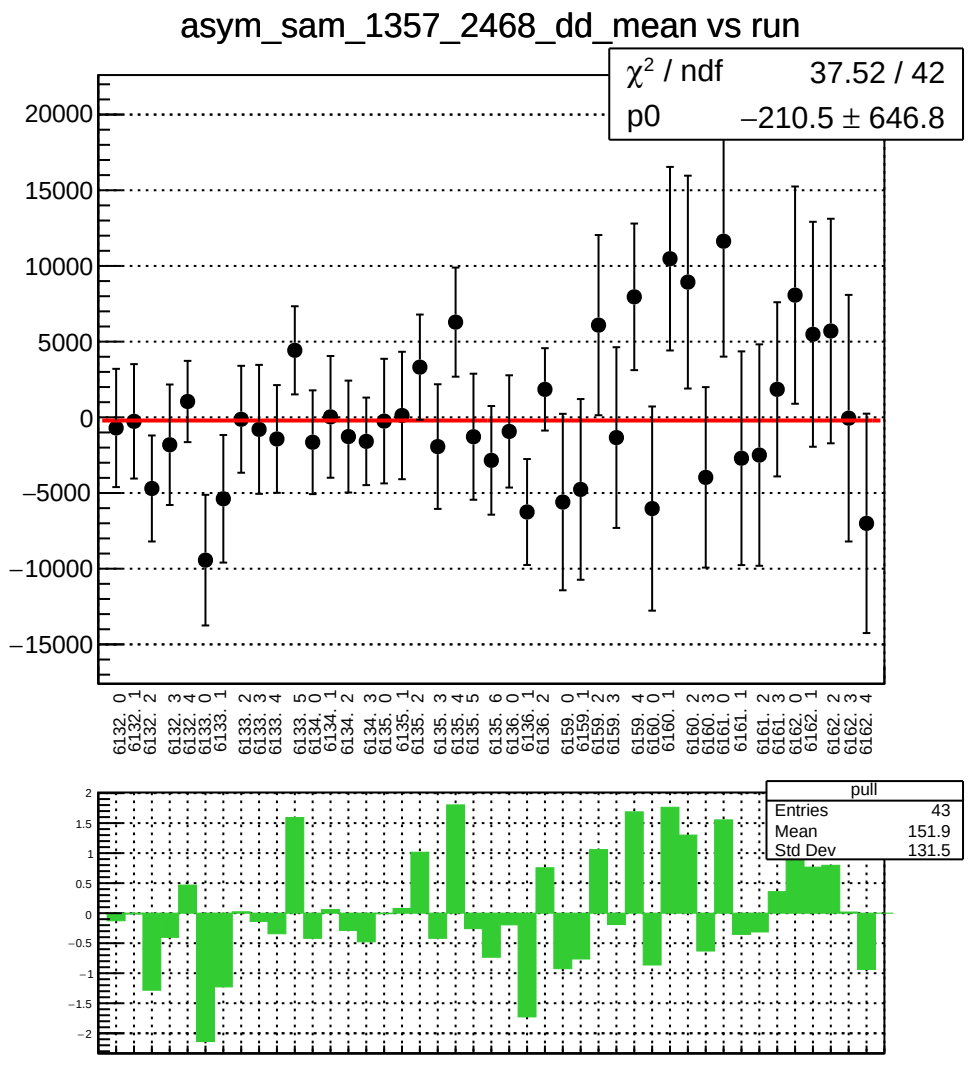

pull1D
Entries 43
Mean 0.04136
Std Dev 0.9569

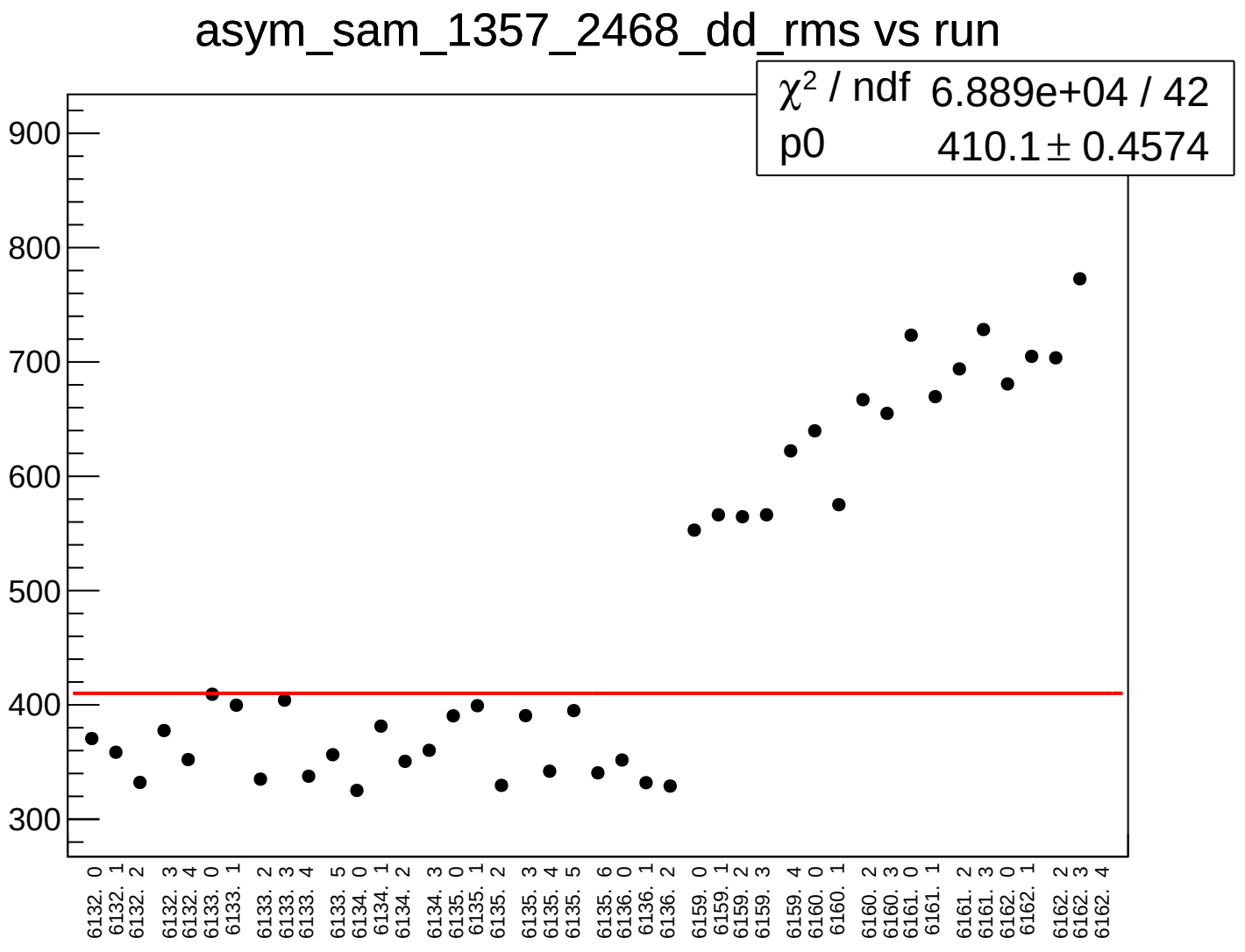

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 7429 / 42
p0 24.5 ± 0.02634
34
32
30
28
26
24
22
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

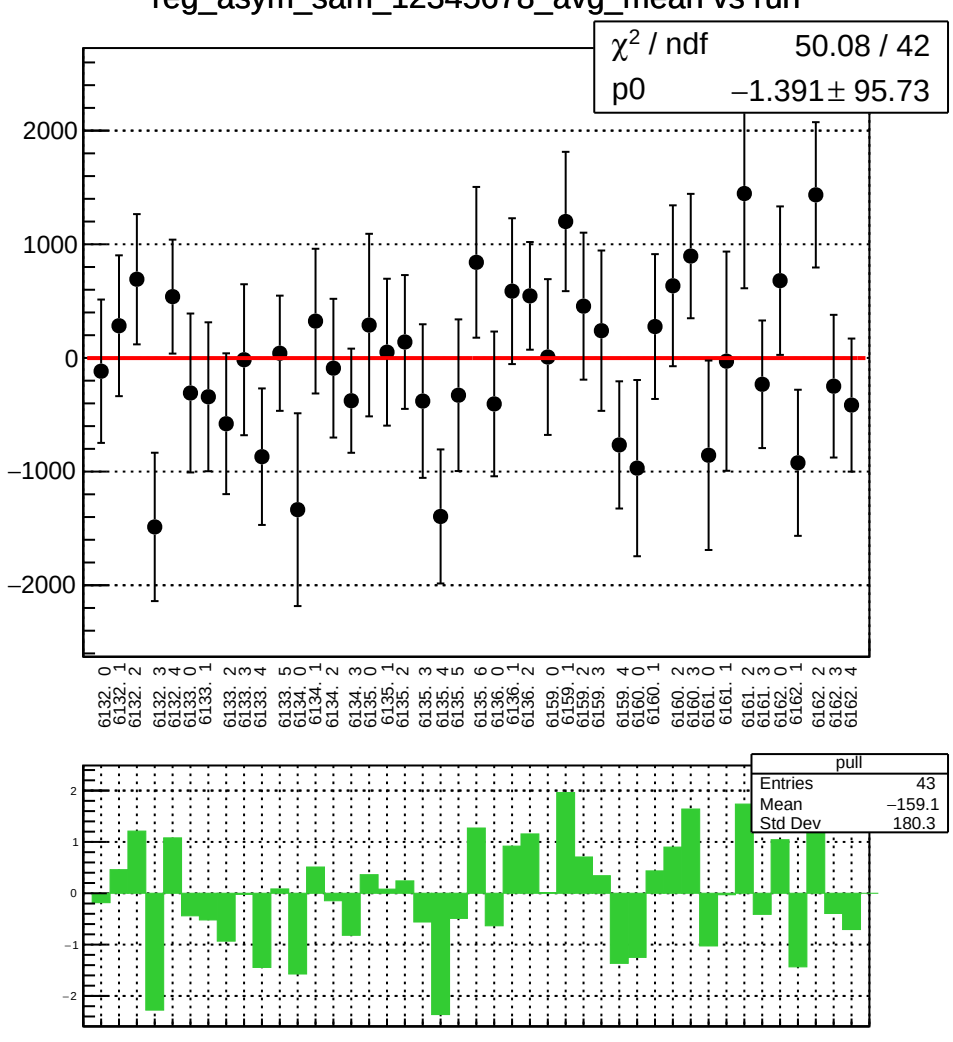

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 37.31 / 42
p0 250.4 ± 645.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 164.6
Std Dev 144.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

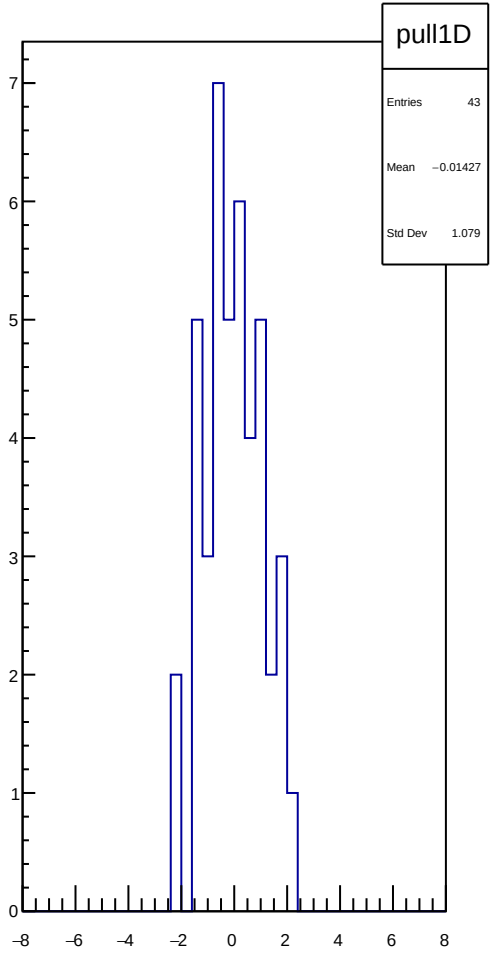

pull1D
Entries 43
Mean −0.0229
Std Dev 0.9313
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

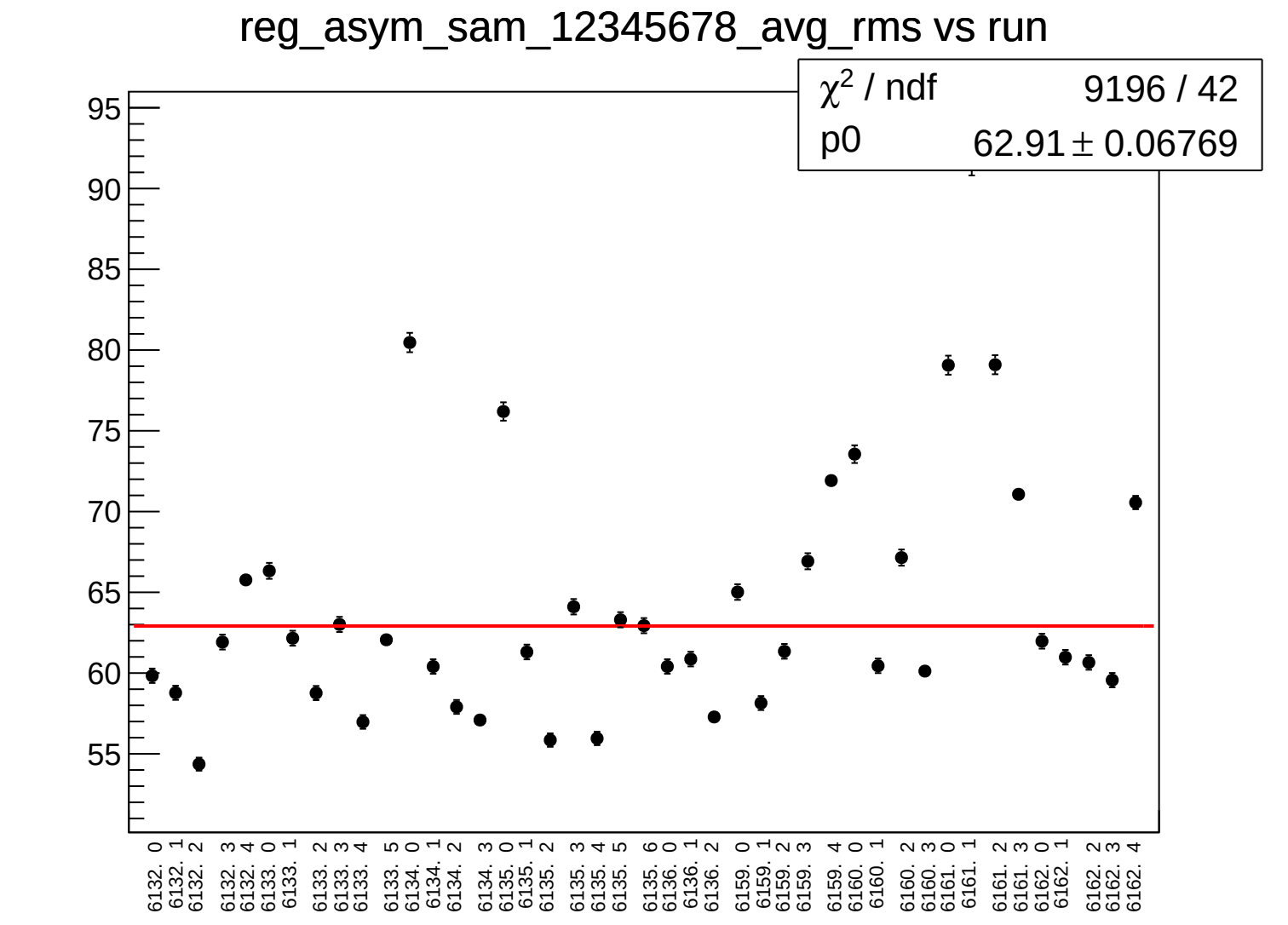

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 6.915e+04 / 42
p0 409.3 ± 0.4565
900
800
700
600
500
400
300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

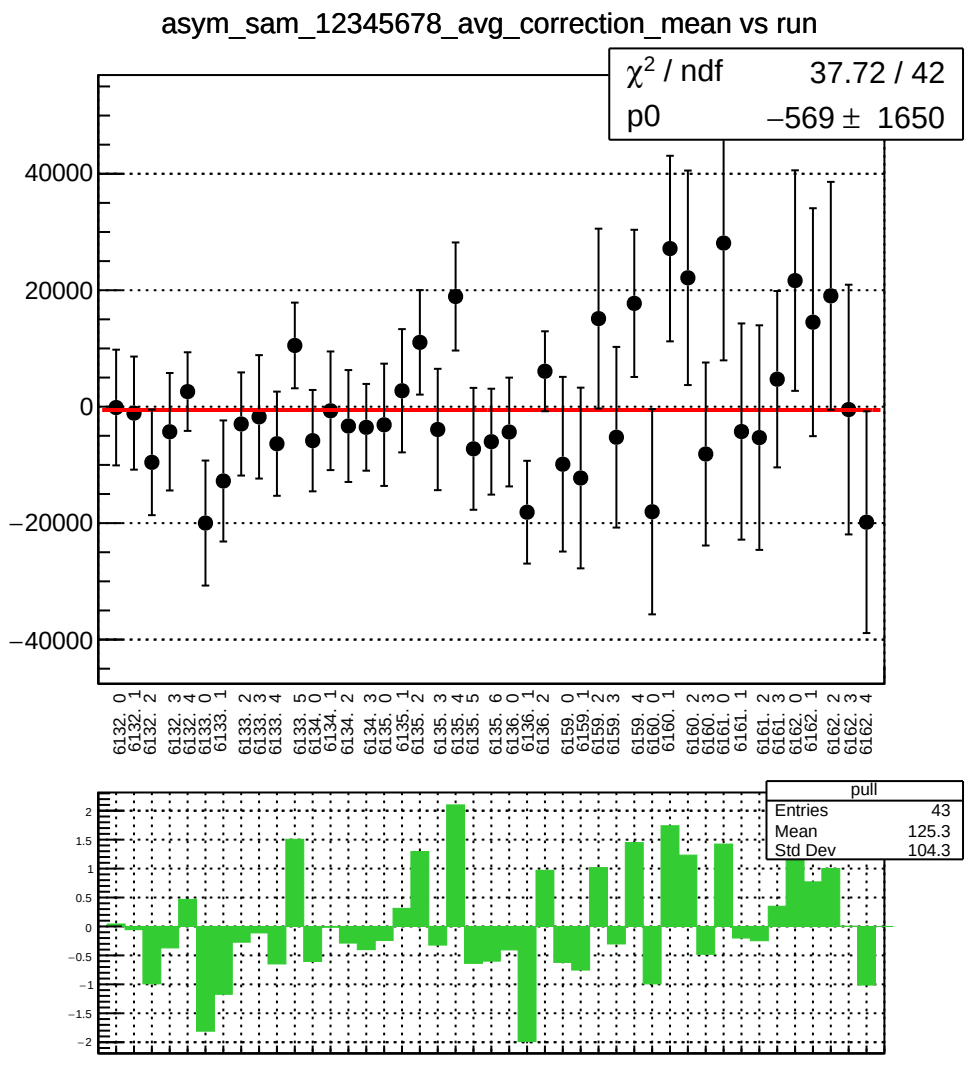

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 37.52 / 42
p0 −210.5 ± 646.8
20000
15000
10000
5000
0
−5000
−10000
−15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 151.9
Std Dev 131.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.02531
Std Dev 0.9337
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

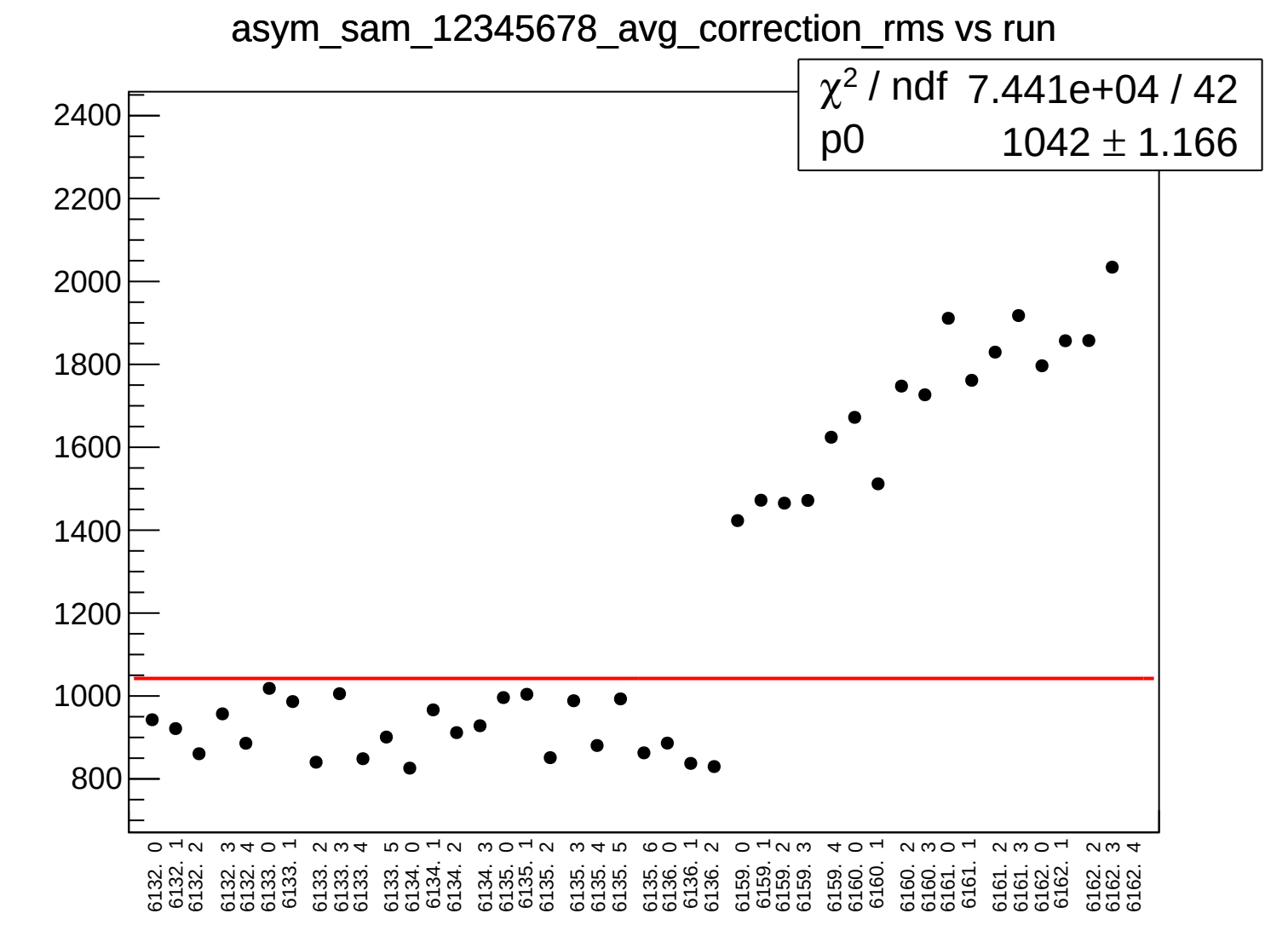

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6.889e+04 / 42
p0 410.1 ± 0.4574
900
800
700
600
500
400
300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

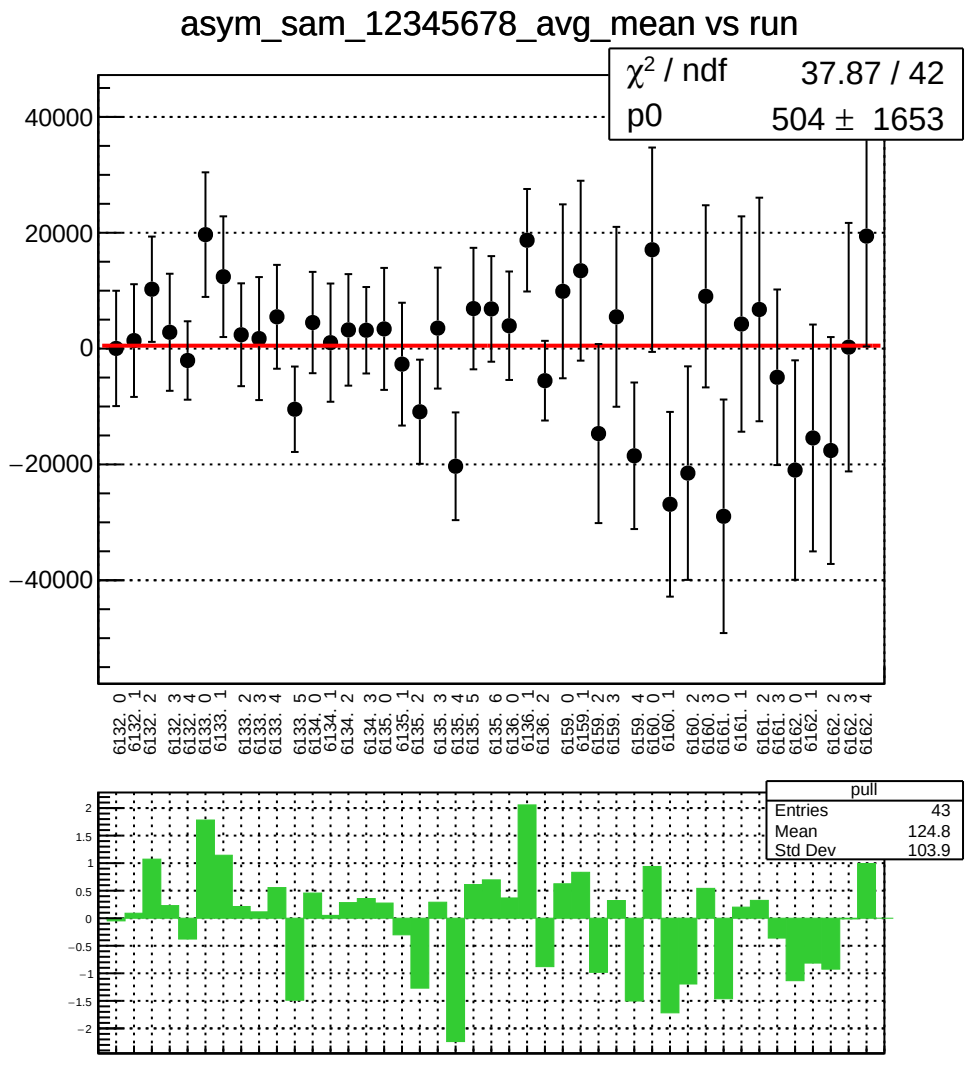

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 50.08 / 42
p0 −1.391 ± 95.73
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −159.1
Std Dev 180.3
2
1
0
−1
−2

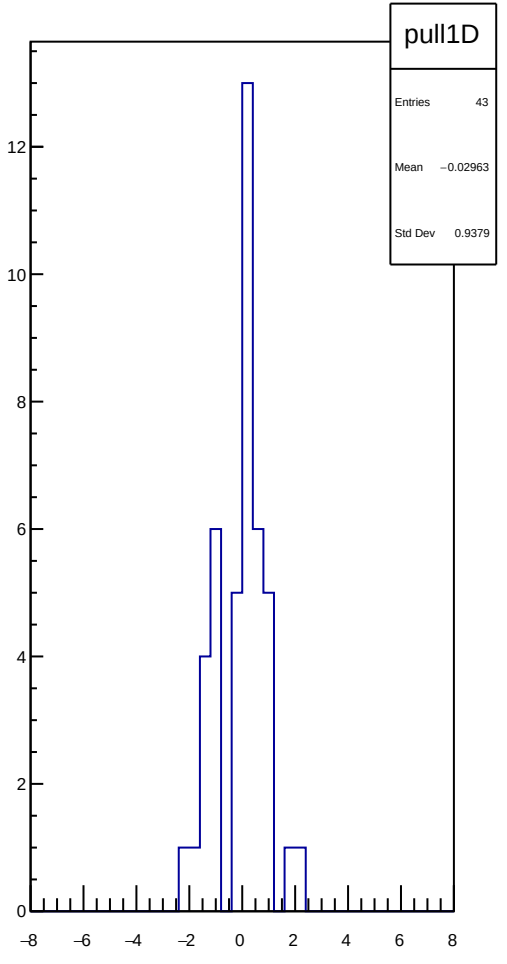

pull1D
Entries 43
Mean −0.01427
Std Dev 1.079
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

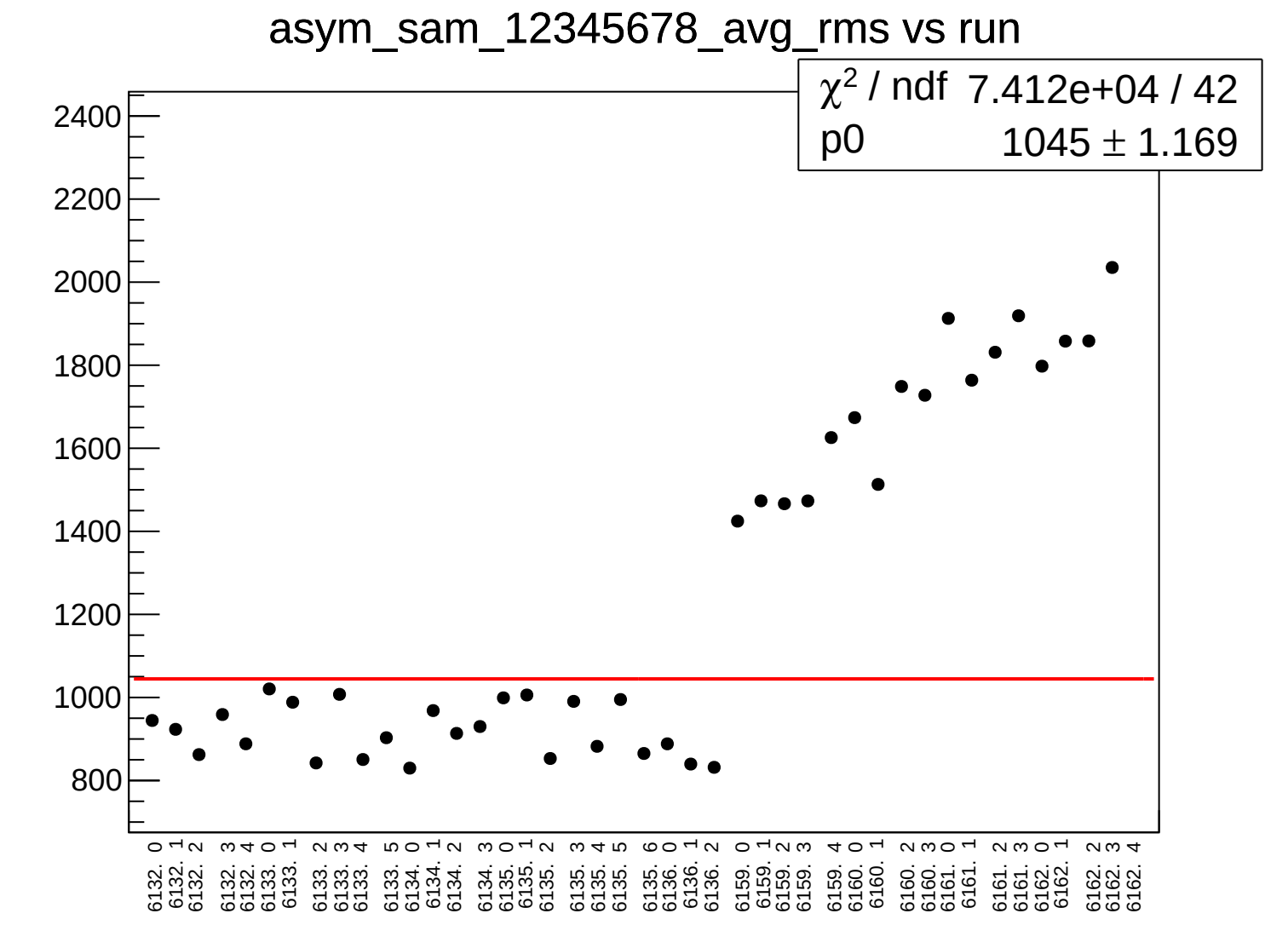

reg_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 9196 / 42
p0 62.91 ± 0.06769
95
90
85
80
75
70
65
60
55
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

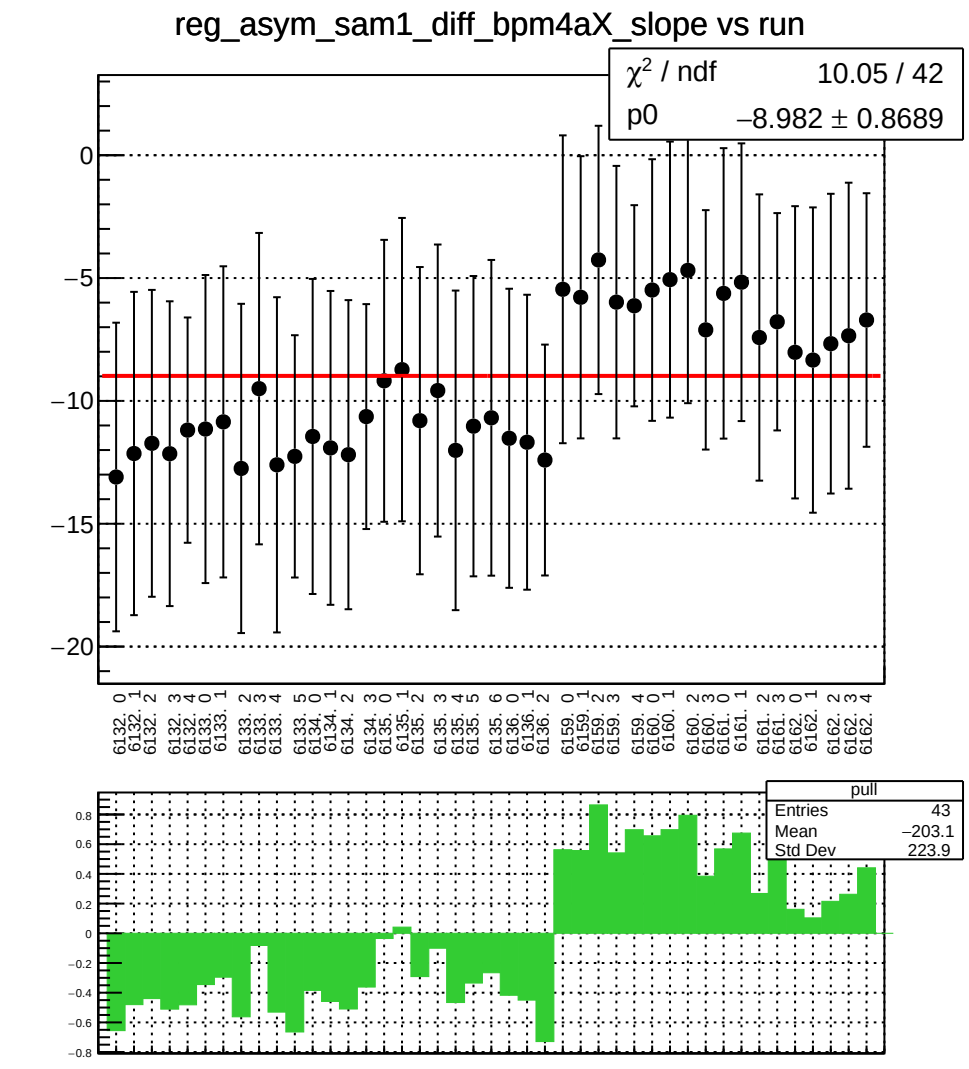

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 37.72 / 42
p0 −569 ± 1650
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 125.3
Std Dev 104.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.03078
Std Dev 0.936
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

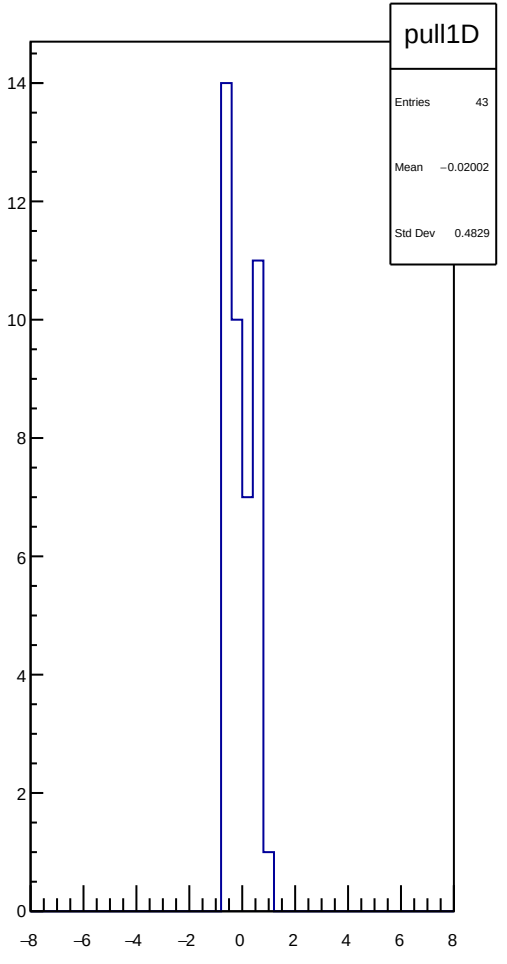

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 7.441e+04 / 42
p0 1042 ± 1.166
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

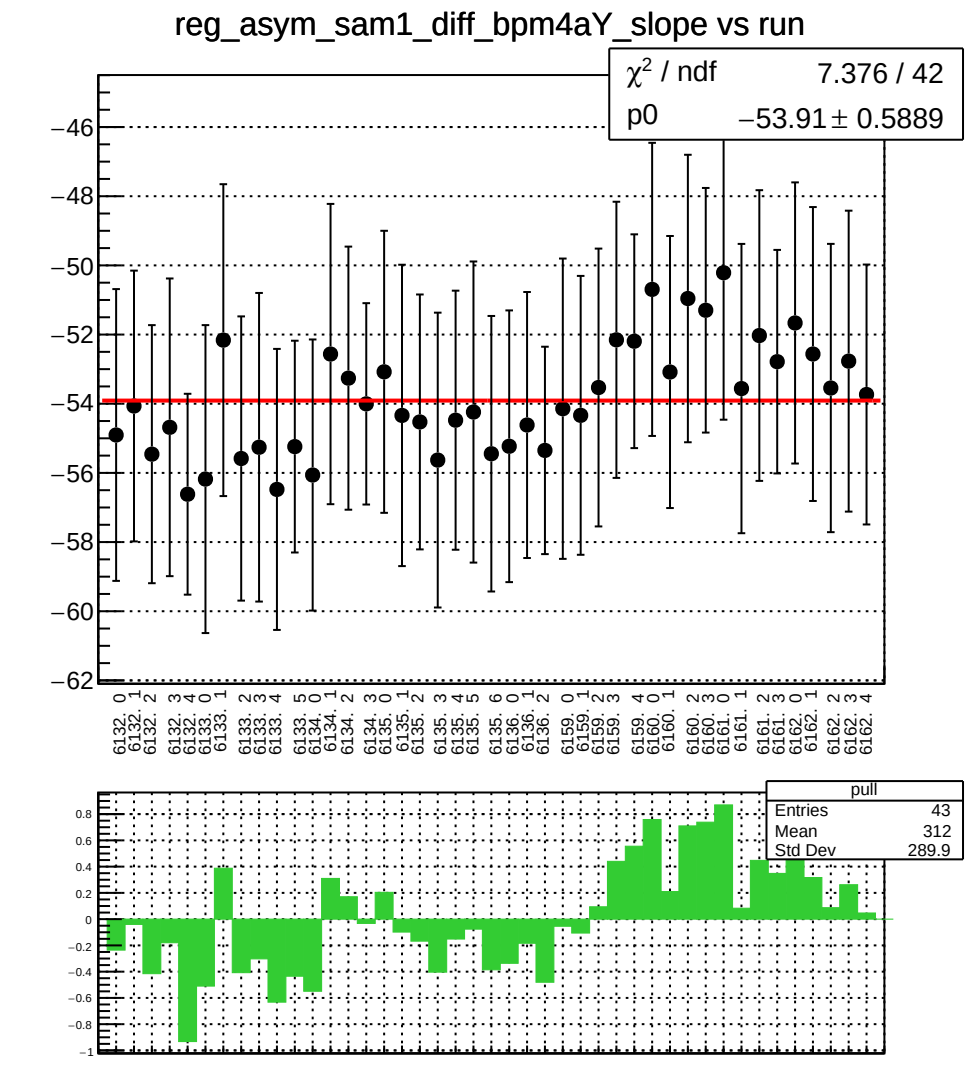

asym_sam_12345678_avg_mean vs run
χ² / ndf 37.87 / 42
p0 504 ± 1653
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 124.8
Std Dev 103.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

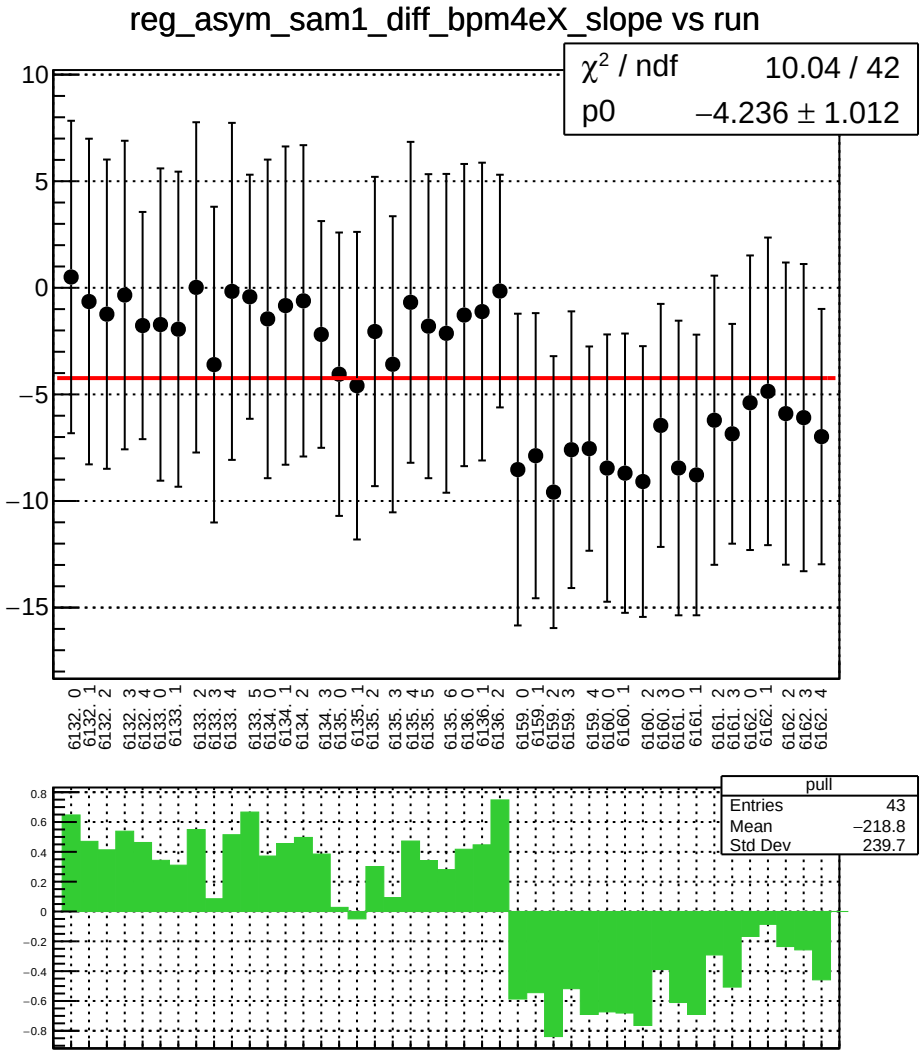

pull1D
Entries 43
Mean −0.02963
Std Dev 0.9379
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

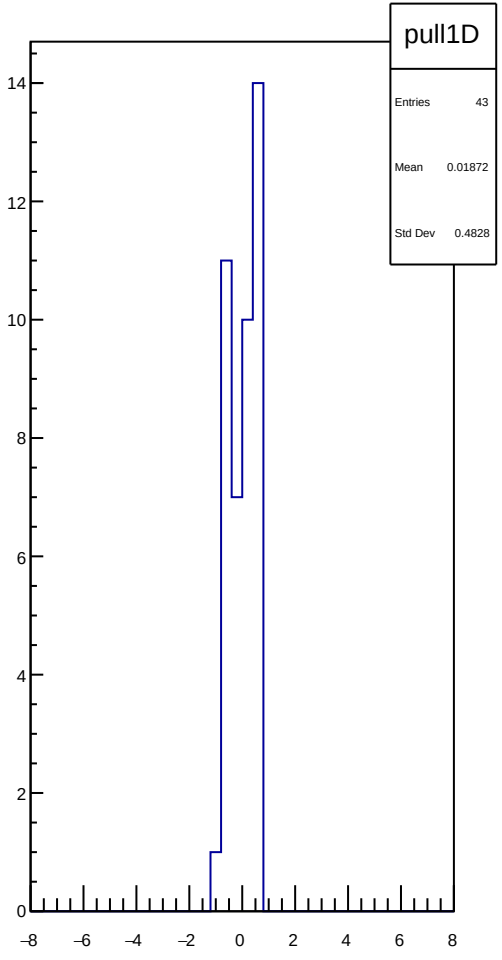

asym_sam_12345678_avg_rms vs run
χ² / ndf 7.412e+04 / 42
p0 1045 ± 1.169
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

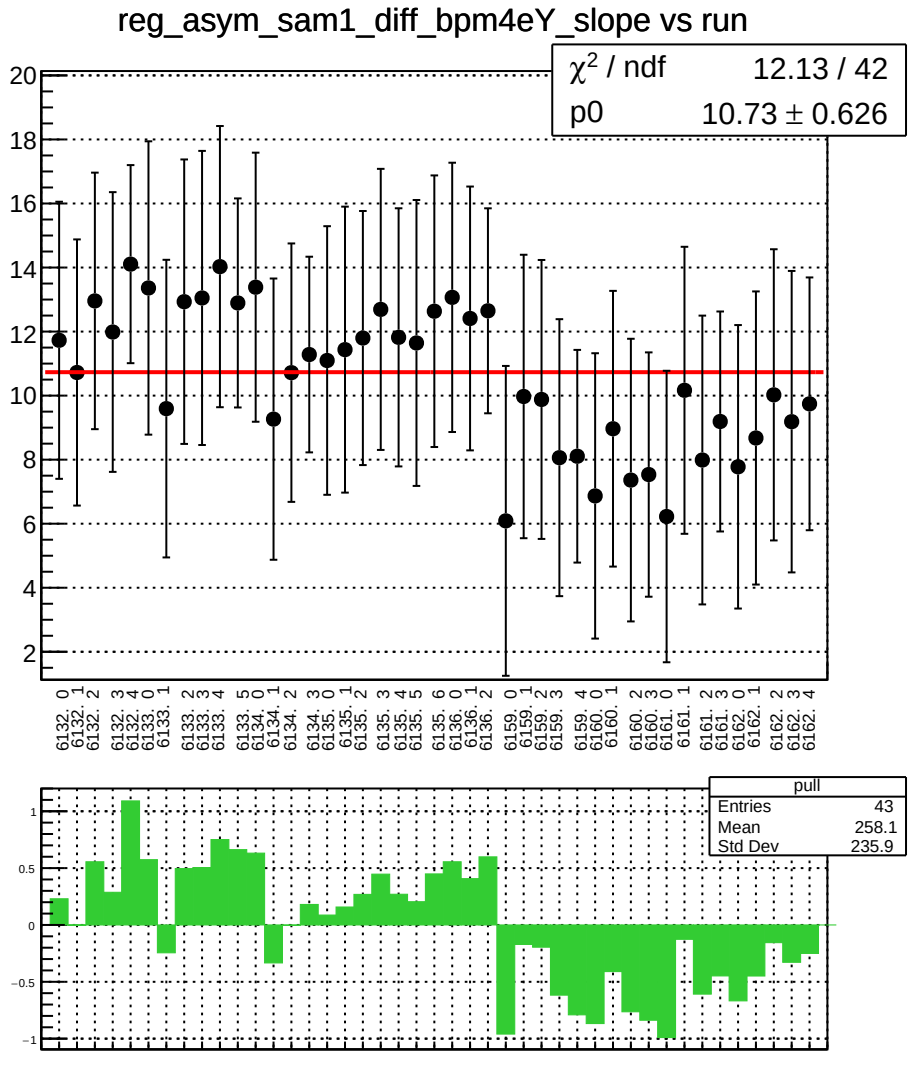

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 10.05 / 42
p0 −8.982 ± 0.8689
0
−5
−10
−15
−20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −203.1
Std Dev 223.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

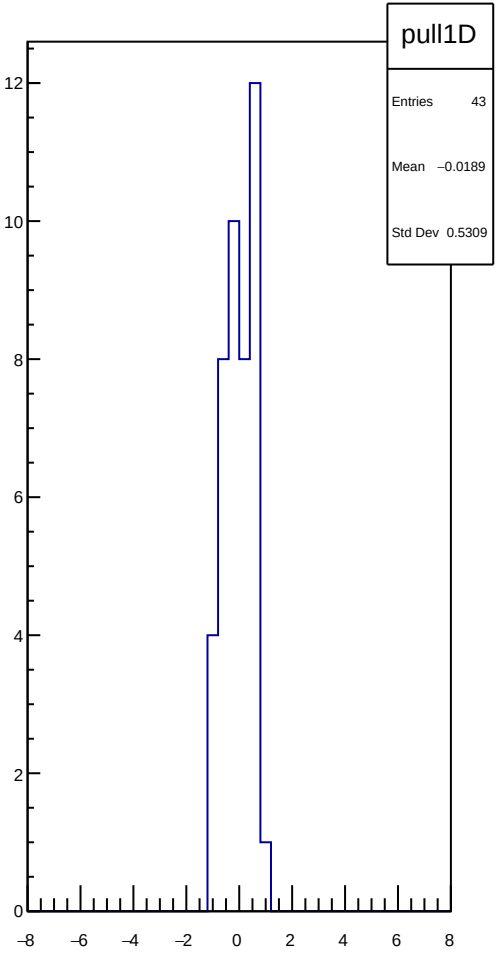

pull1D
Entries 43
Mean −0.02002
Std Dev 0.4829
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

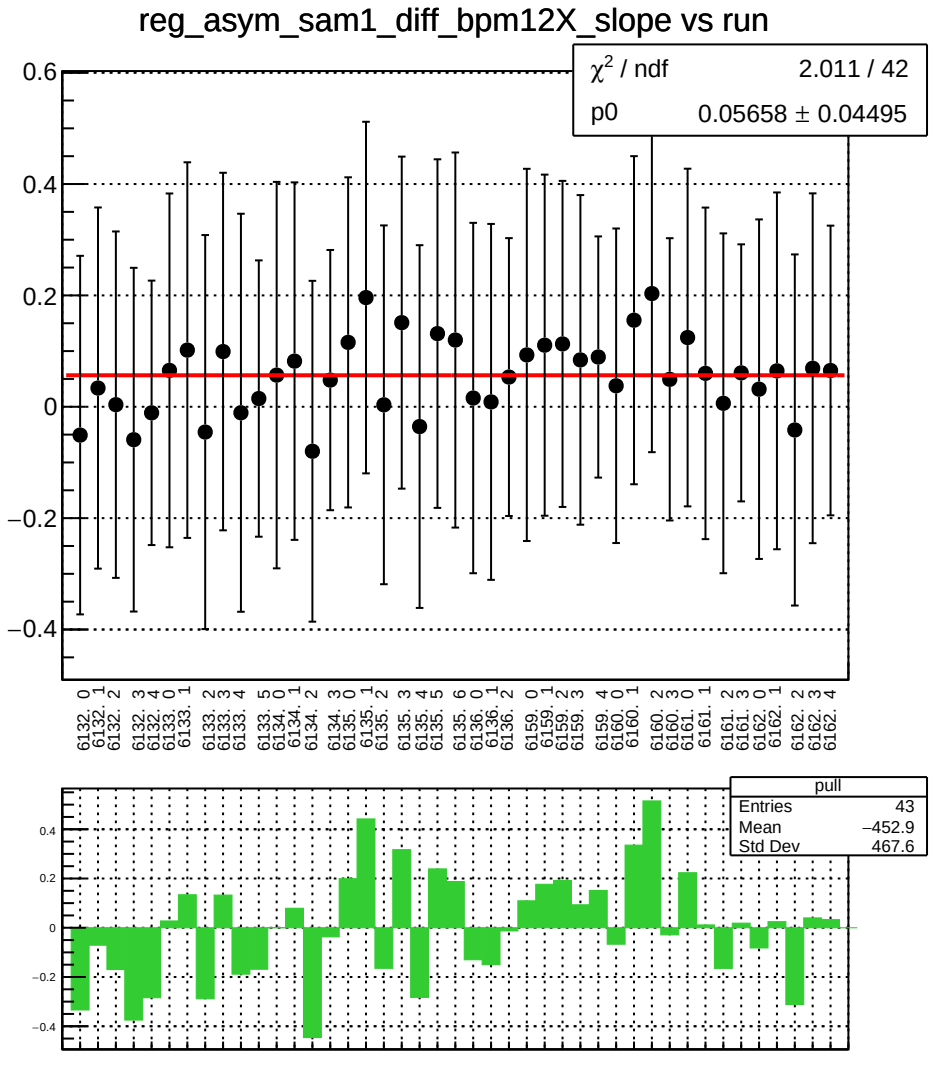

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 7.376 / 42
p0 −53.91 ± 0.5889
−46
−48
−50
−52
−54
−56
−58
−60
−62
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 312
Std Dev 289.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 43
Mean 0.0111
Std Dev 0.414
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

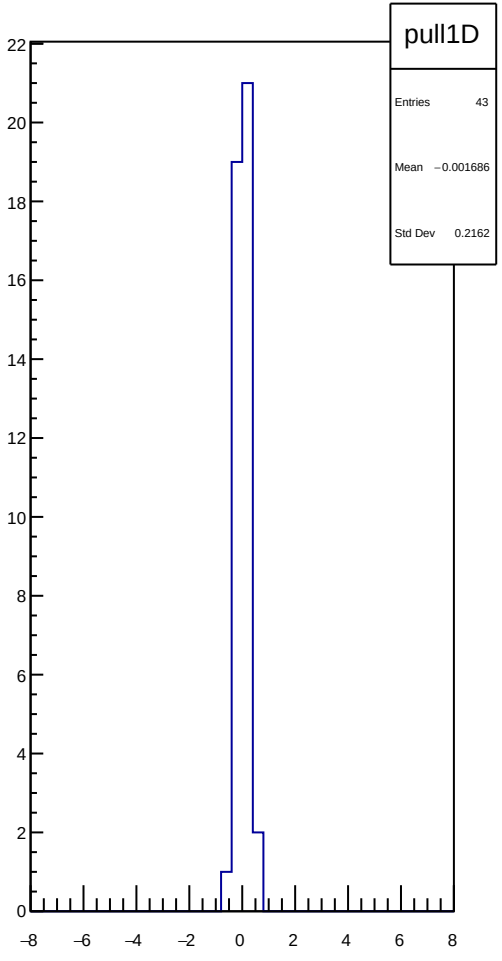

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 10.04 / 42
p0 −4.236 ± 1.012
10
5
0
−5
−10
−15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −218.8
Std Dev 239.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

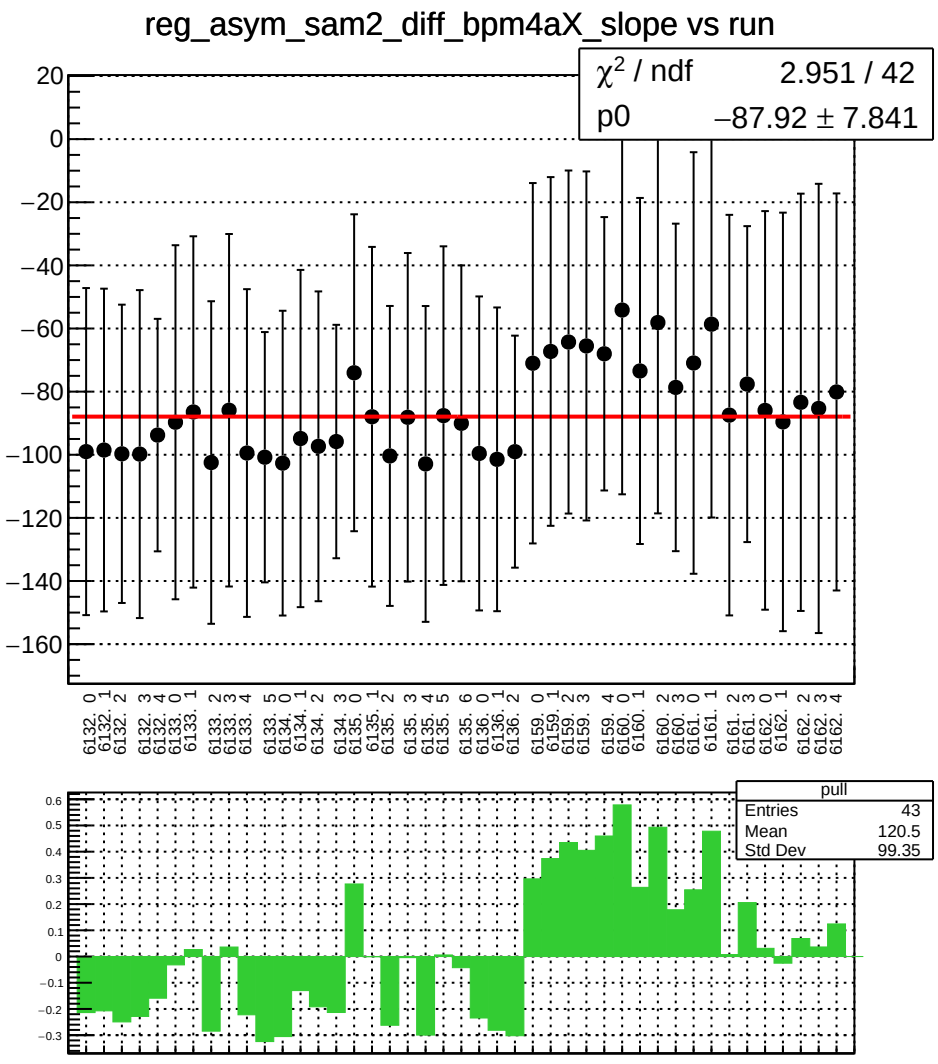

pull1D
Entries 43
Mean 0.01872
Std Dev 0.4828
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

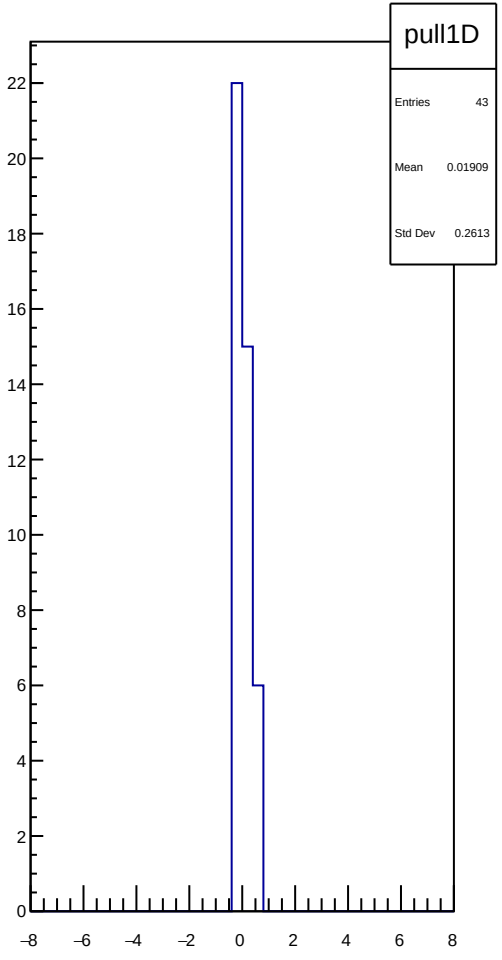

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 12.13 / 42
p0 10.73 ± 0.626
pull
Entries 43
Mean 258.1
Std Dev 235.9

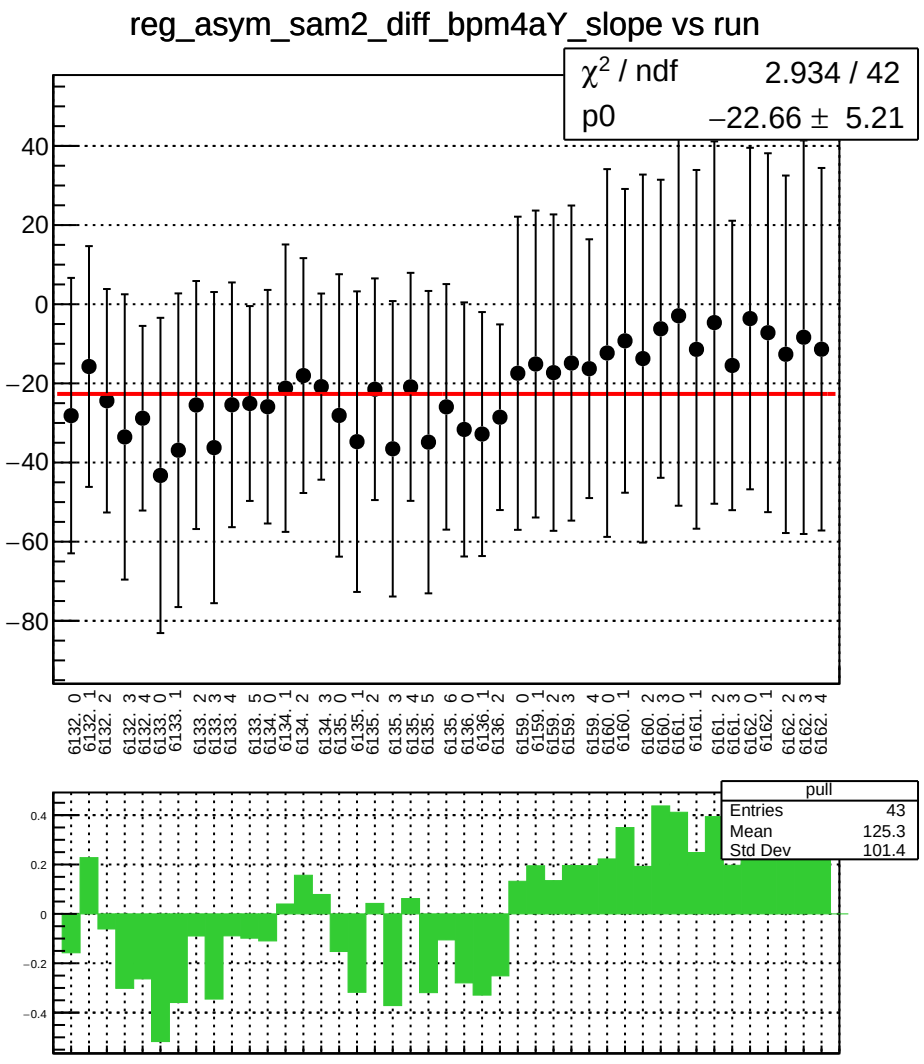

pull1D
Entries 43
Mean −0.0189
Std Dev 0.5309

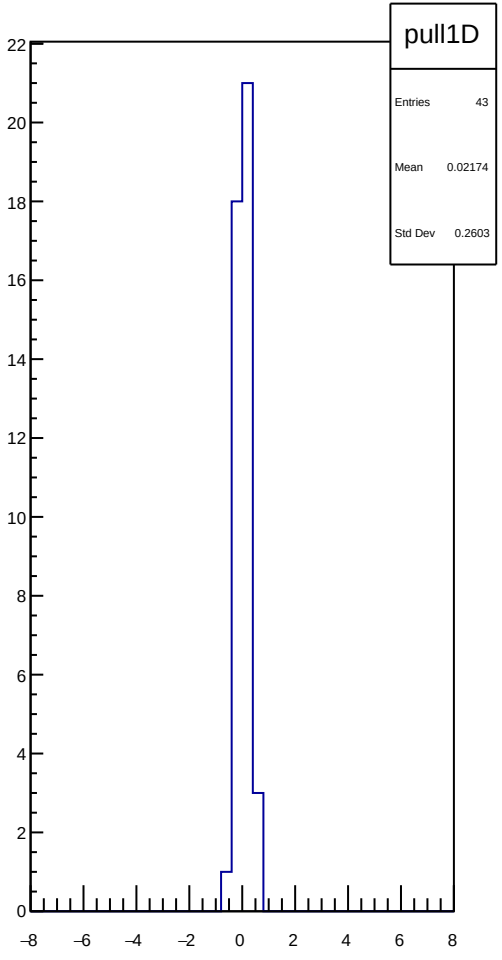

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 2.011 / 42
p0 0.05658 ± 0.04495
pull
Entries 43
Mean −452.9
Std Dev 467.6

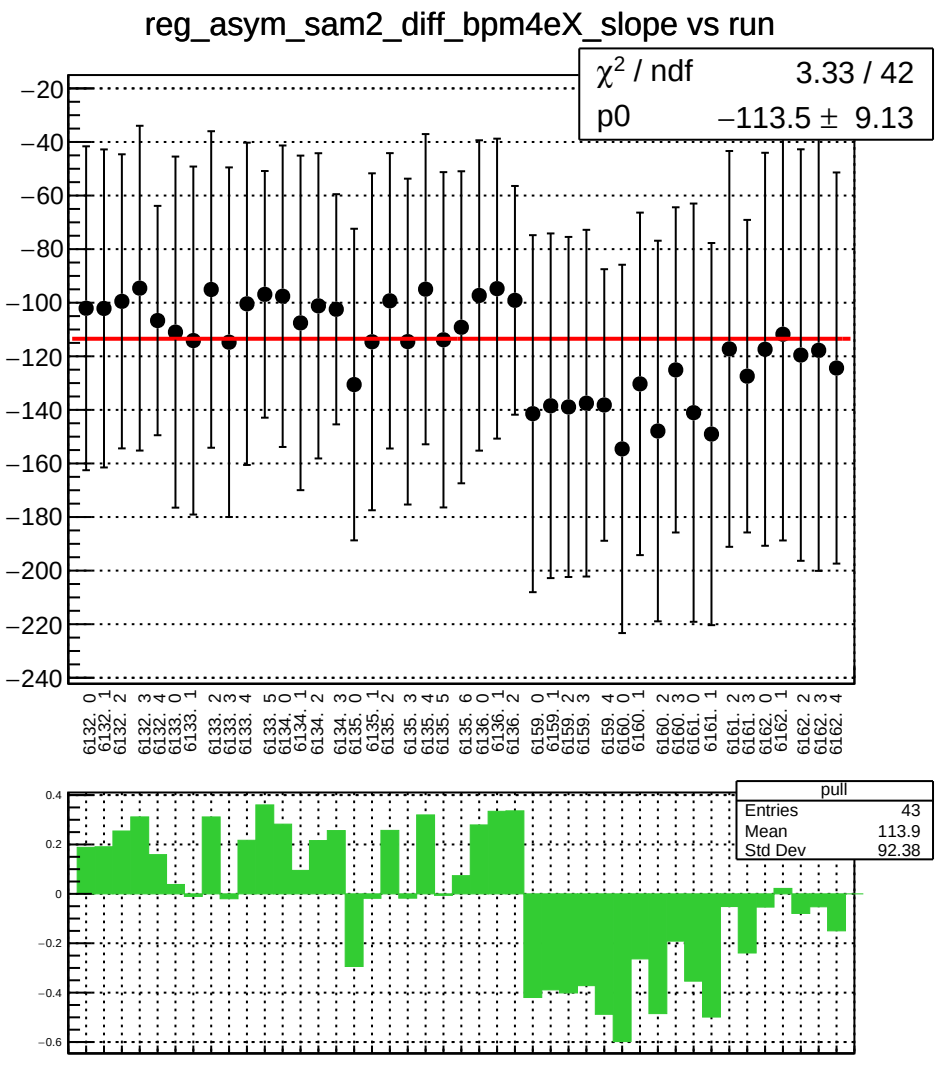

pull1D
Entries 43
Mean −0.001686
Std Dev 0.2162

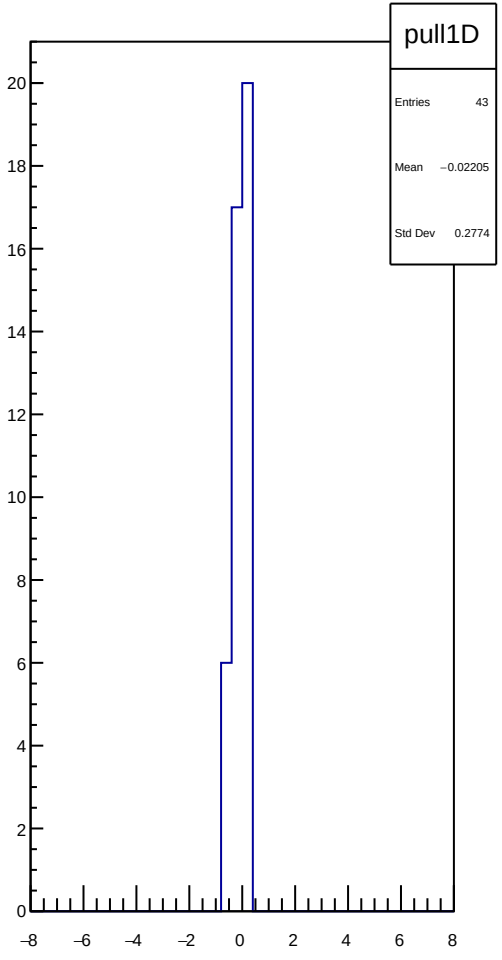

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 2.951 / 42
p0 −87.92 ± 7.841
pull
Entries 43
Mean 120.5
Std Dev 99.35

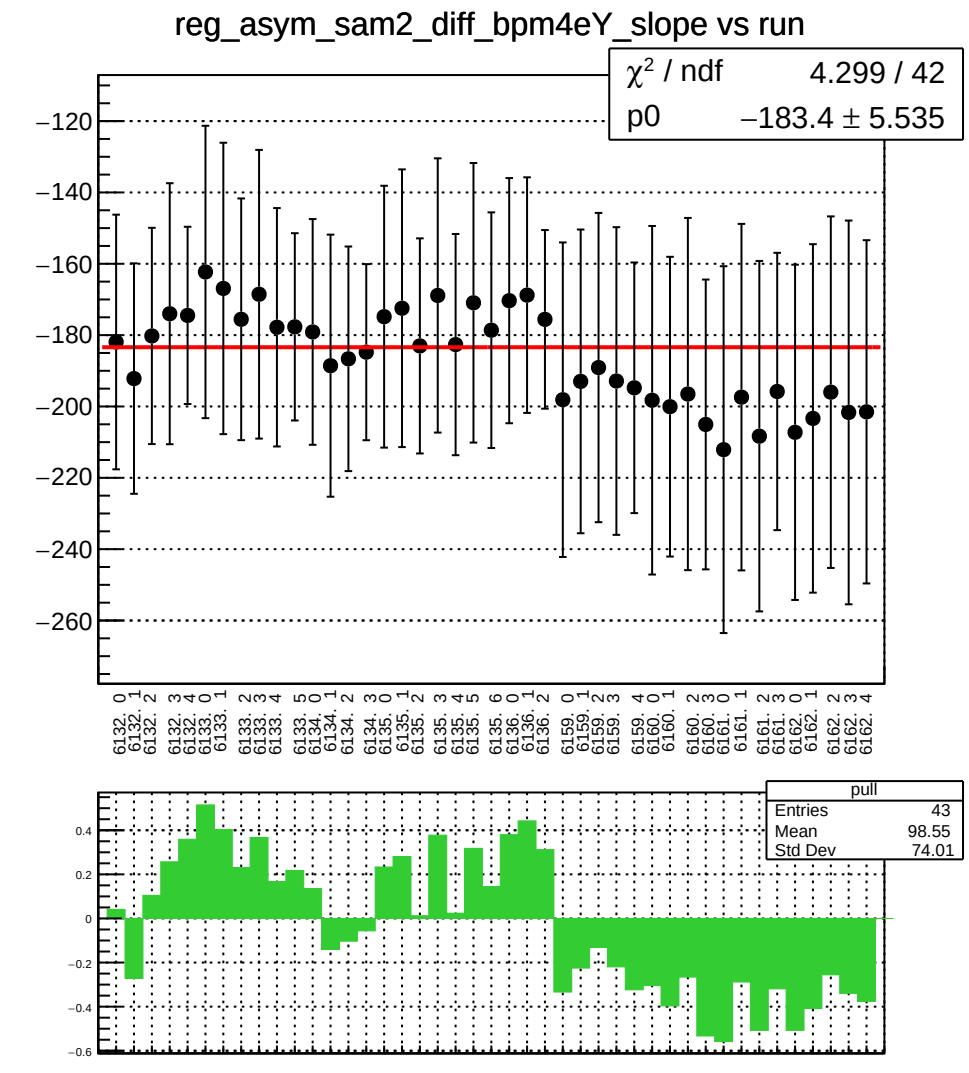

pull1D
Entries 43
Mean 0.01909
Std Dev 0.2613

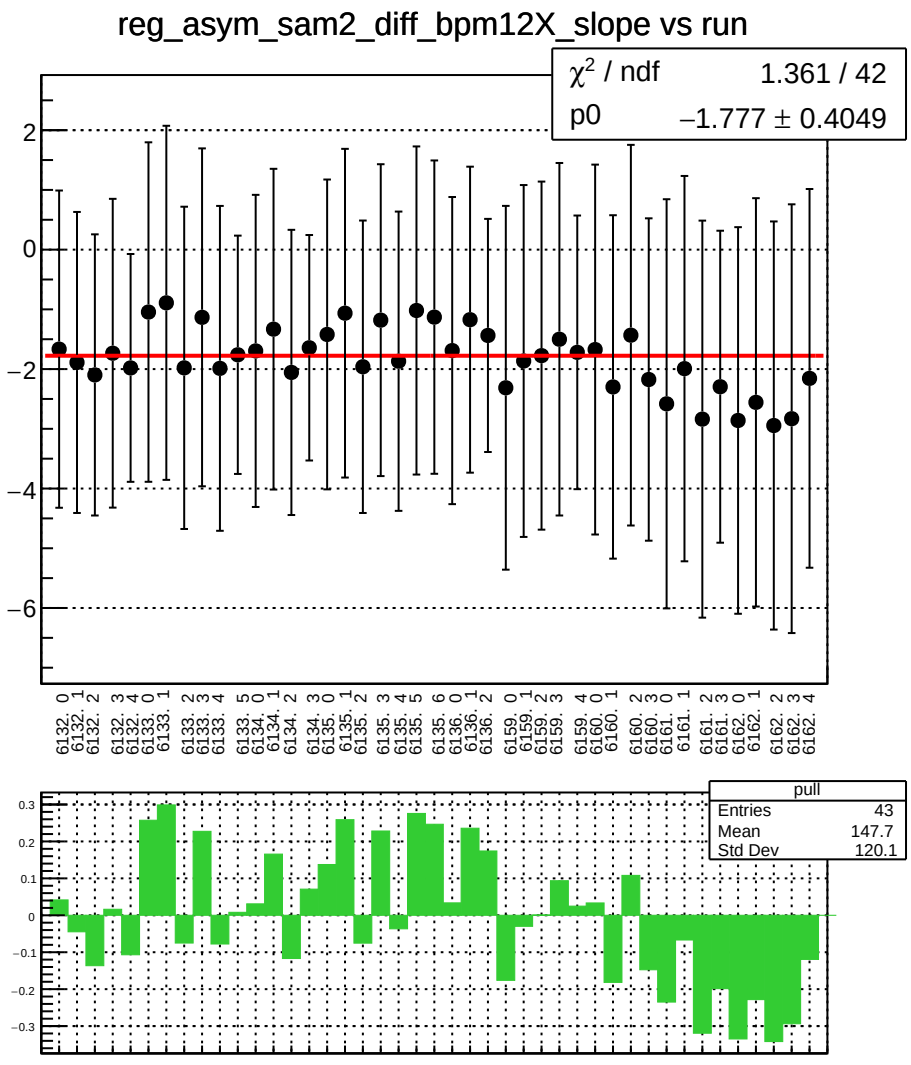

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 2.934 / 42
p0 −22.66 ± 5.21
40
20
0
−20
−40
−60
−80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 125.3
Std Dev 101.4
0.4
0.2
0
−0.2
−0.4

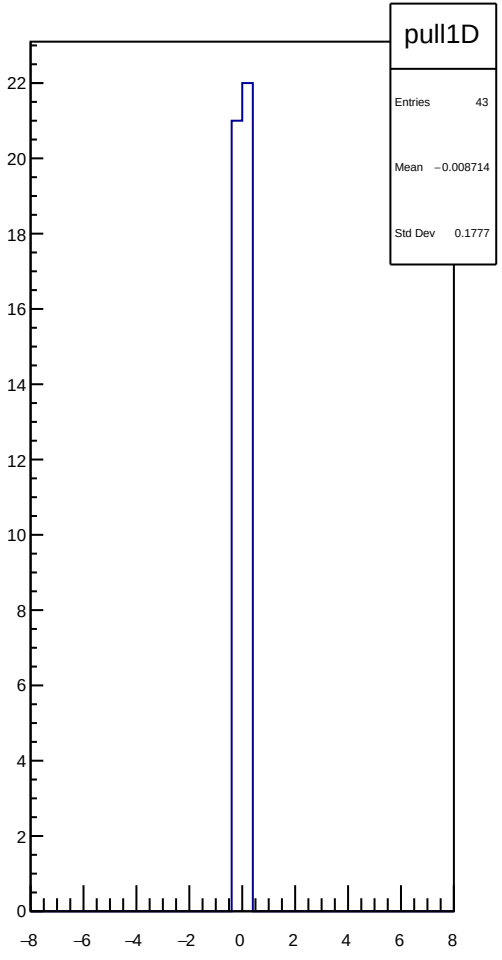

pull1D
Entries 43
Mean 0.02174
Std Dev 0.2603
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

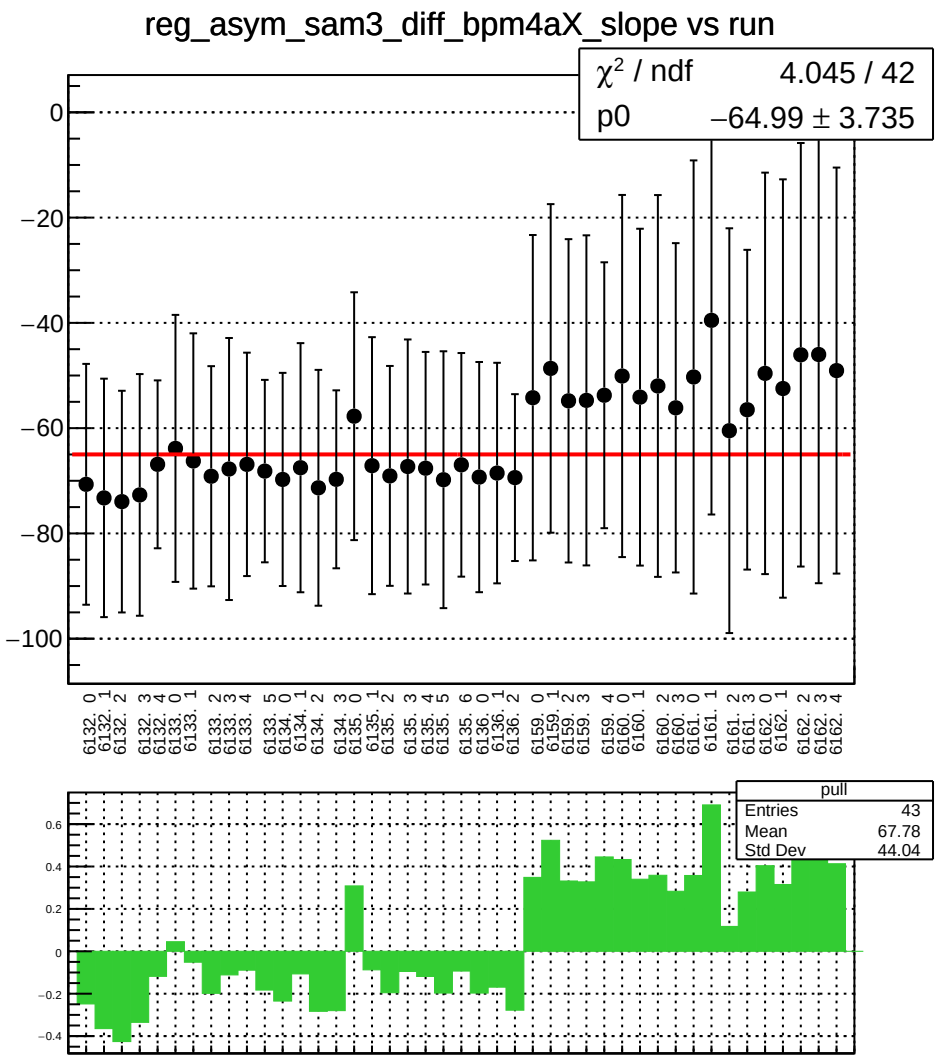

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 3.33 / 42
p0 −113.5 ± 9.13
pull
Entries 43
Mean 113.9
Std Dev 92.38

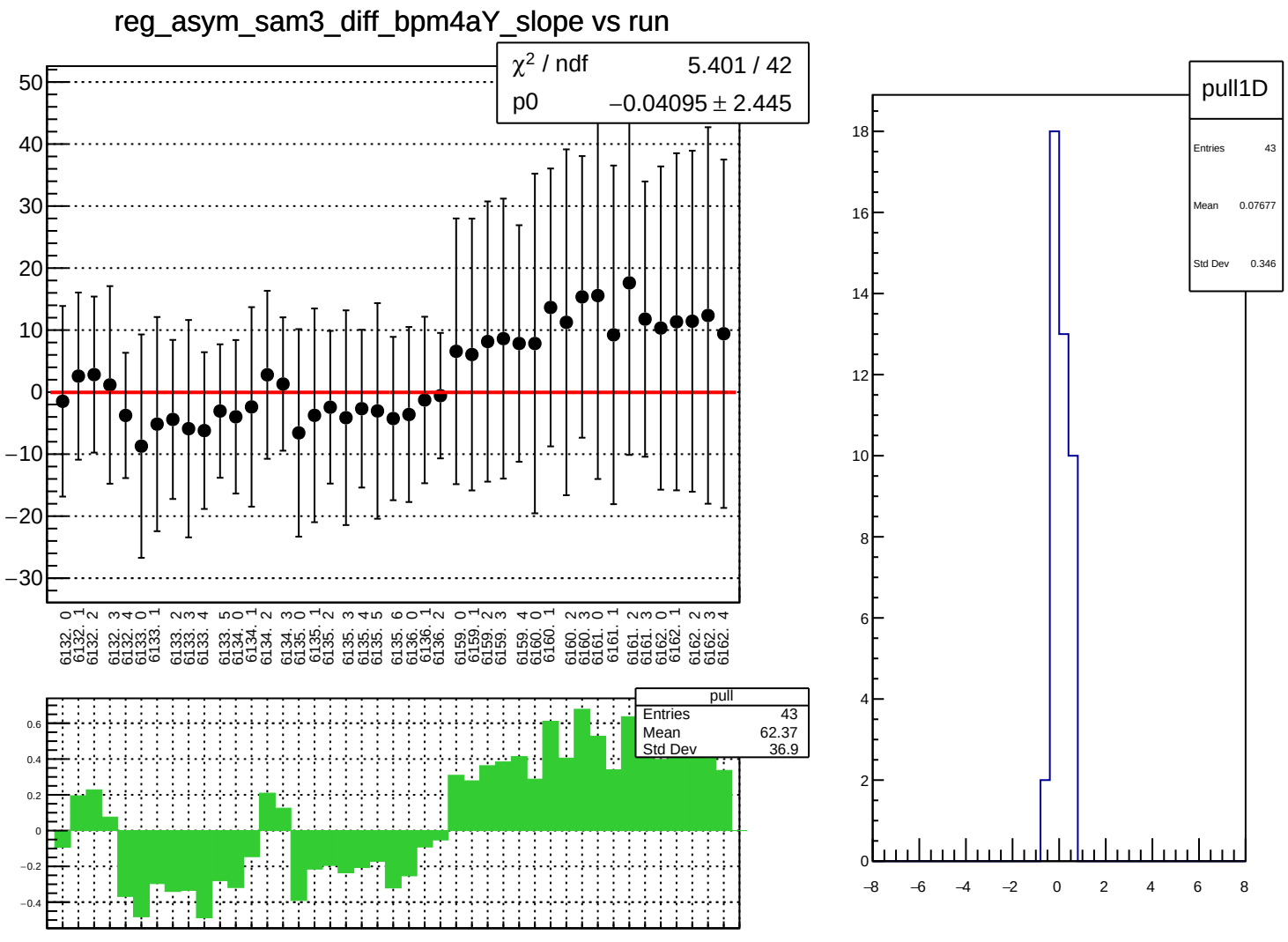

pull1D
Entries 43
Mean −0.02205
Std Dev 0.2774

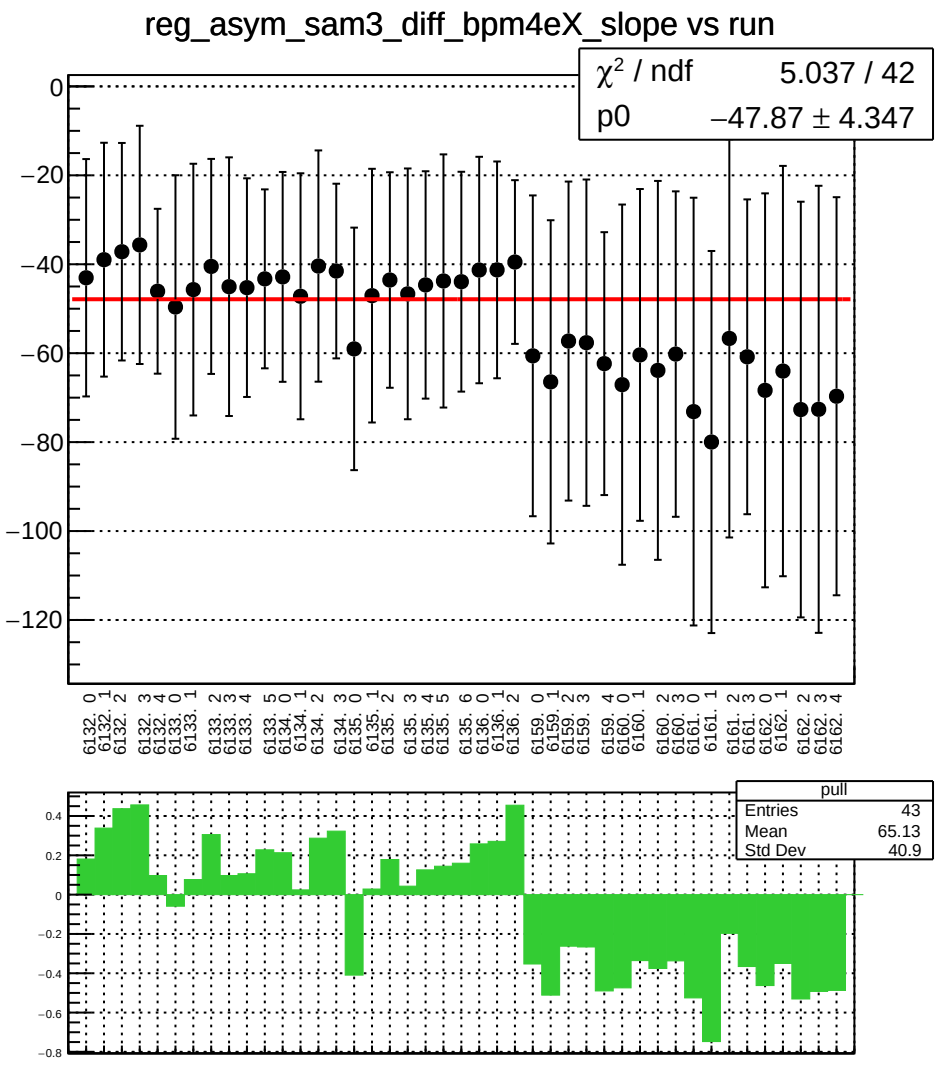

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 4.299 / 42
p0 −183.4 ± 5.535
−120
−140
−160
−180
−200
−220
−240
−260
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 98.55
Std Dev 74.01
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean −0.03586
Std Dev 0.3142
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

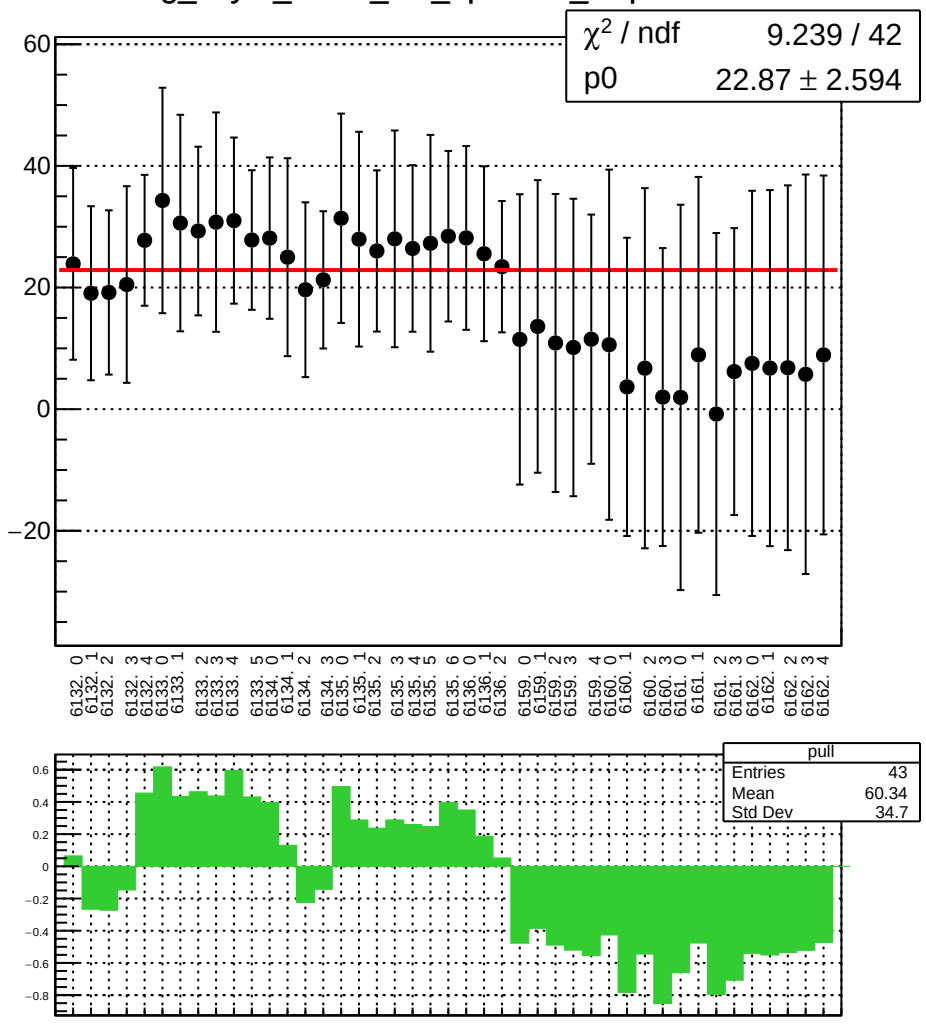

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 1.361 / 42
p0 −1.777 ± 0.4049
pull
Entries 43
Mean 147.7
Std Dev 120.1

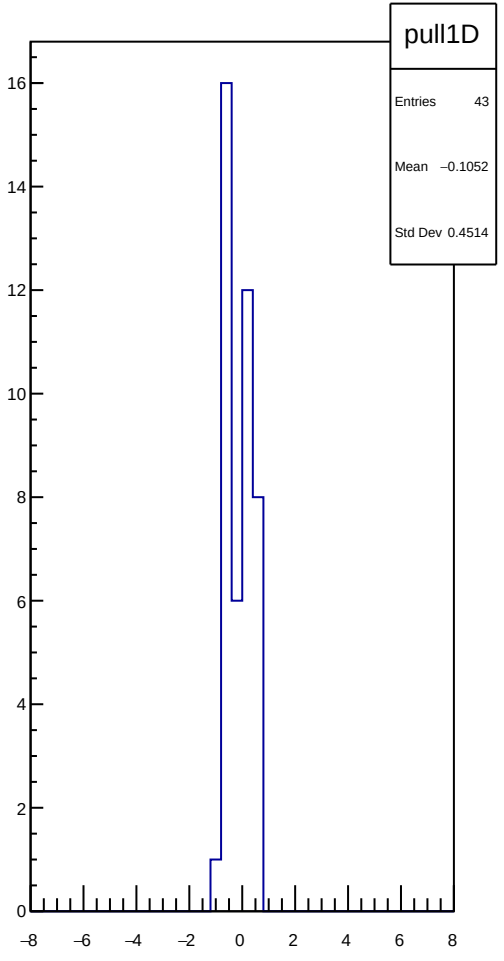

pull1D
Entries 43
Mean −0.008714
Std Dev 0.1777

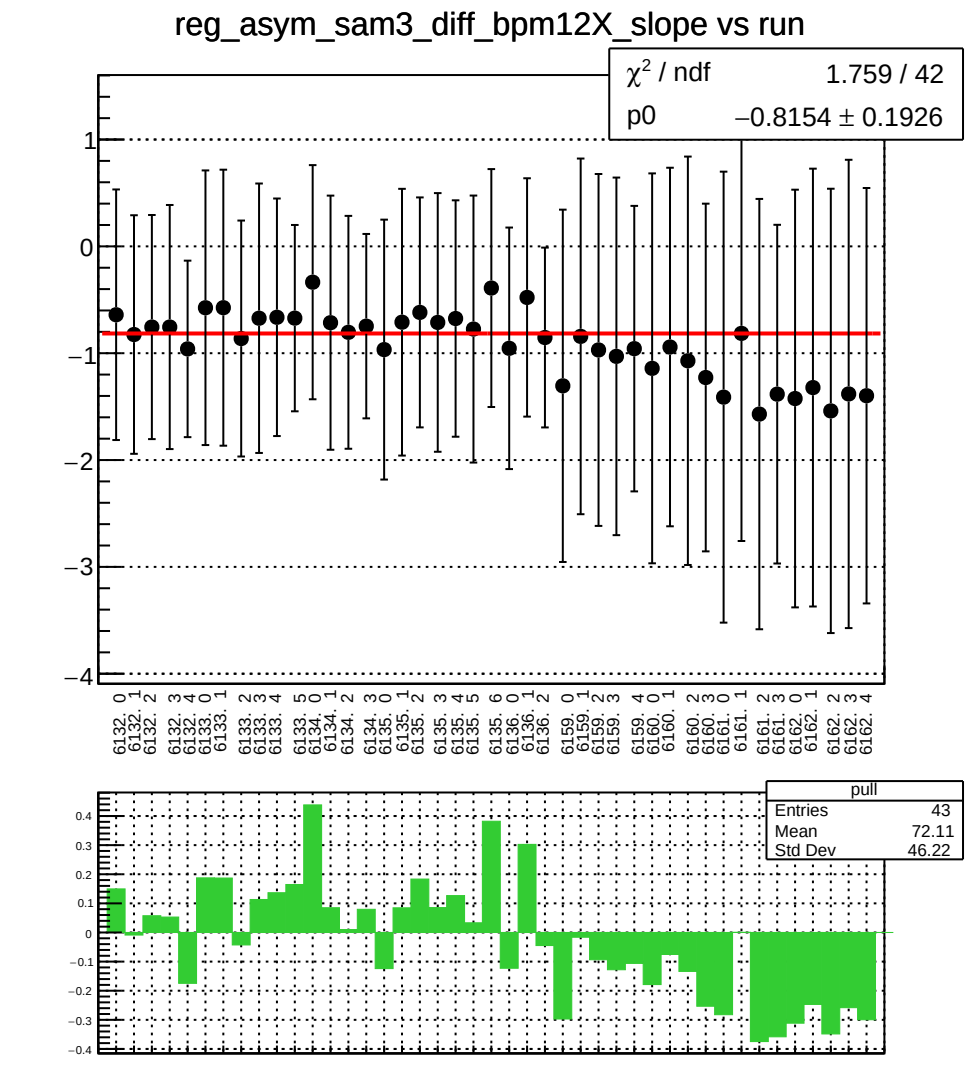

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 4.045 / 42
p0 −64.99 ± 3.735
0
−20
−40
−60
−80
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 67.78
Std Dev 44.04
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 43
Mean 0.0644
Std Dev 0.2999
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

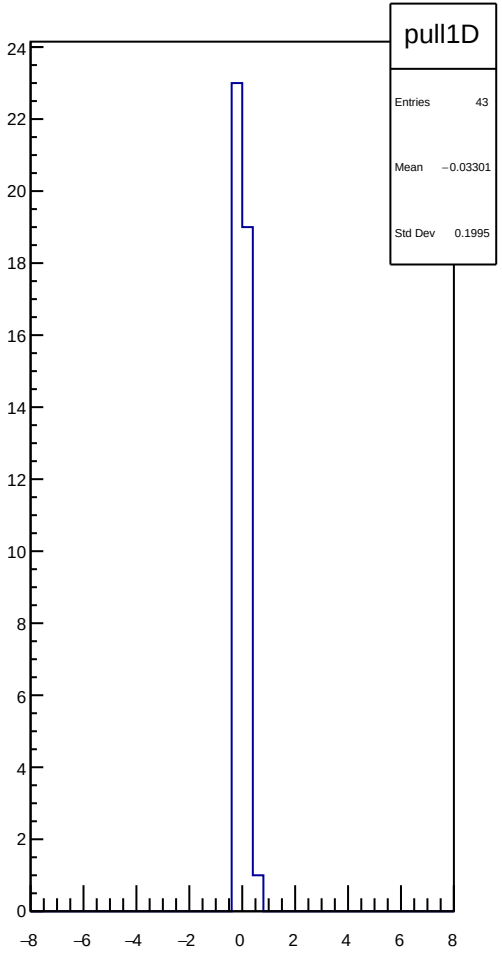

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 5.401 / 42
p0 −0.04095 ± 2.445
pull
Entries 43
Mean 62.37
Std Dev 36.9
pull1D
Entries 43
Mean 0.07677
Std Dev 0.346

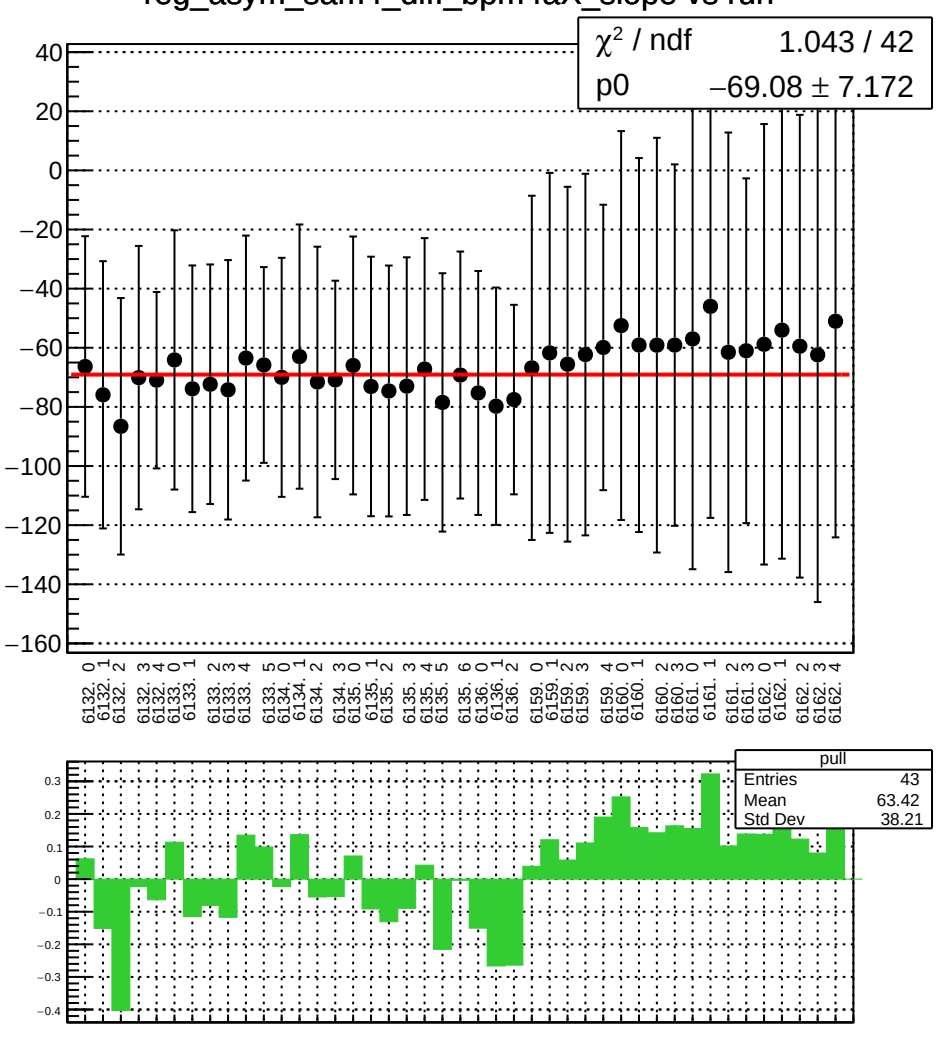

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 5.037 / 42
p0 −47.87 ± 4.347
0
−20
−40
−60
−80
−100
−120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 65.13
Std Dev 40.9
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean −0.07434
Std Dev 0.3341
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

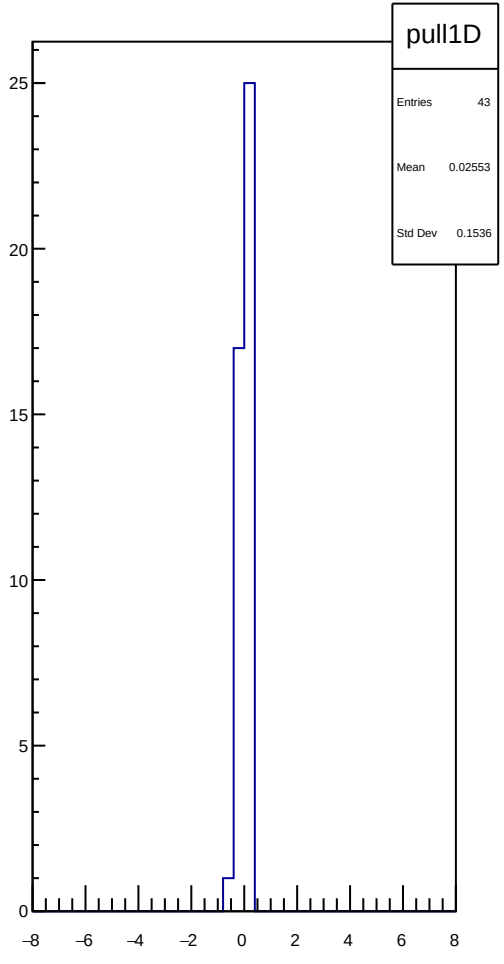

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 9.239 / 42
p0 22.87 ± 2.594
pull
Entries 43
Mean 60.34
Std Dev 34.7

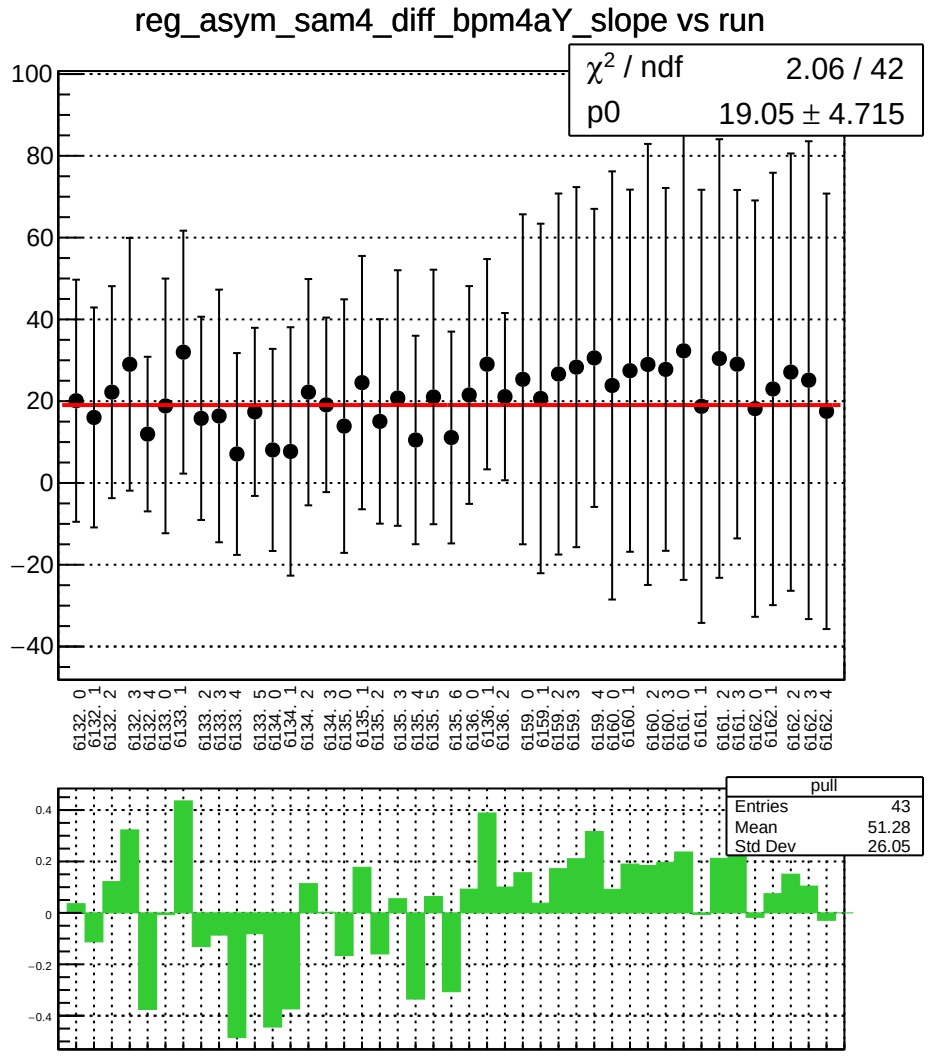

pull1D
Entries 43
Mean −0.1052
Std Dev 0.4514

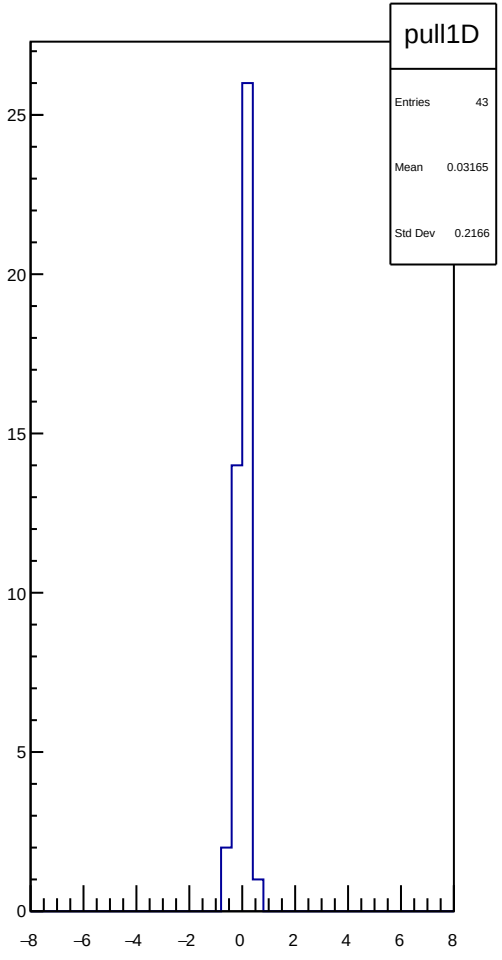

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 1.759 / 42
p0 −0.8154 ± 0.1926
pull
Entries 43
Mean 72.11
Std Dev 46.22

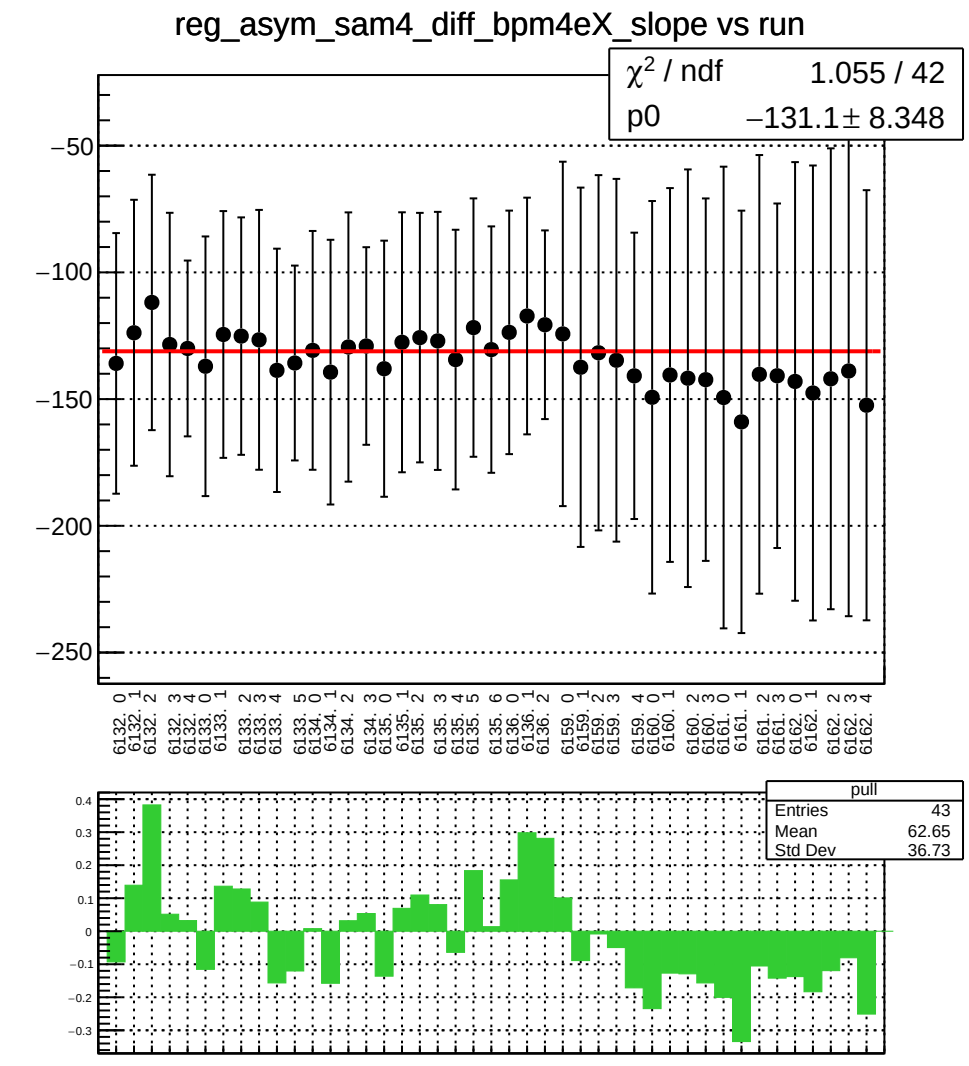

pull1D
Entries 43
Mean −0.03301
Std Dev 0.1995

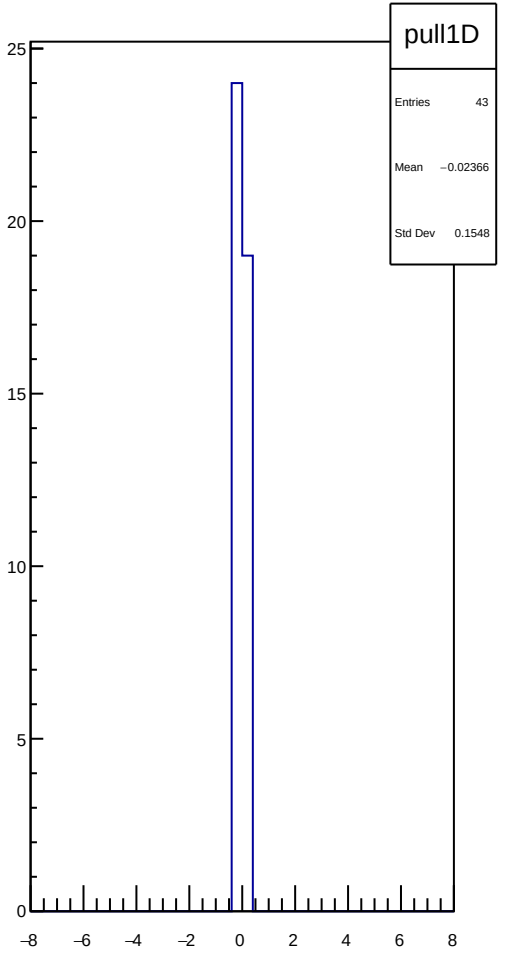

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 1.043 / 42
p0 −69.08 ± 7.172
pull
Entries 43
Mean 63.42
Std Dev 38.21

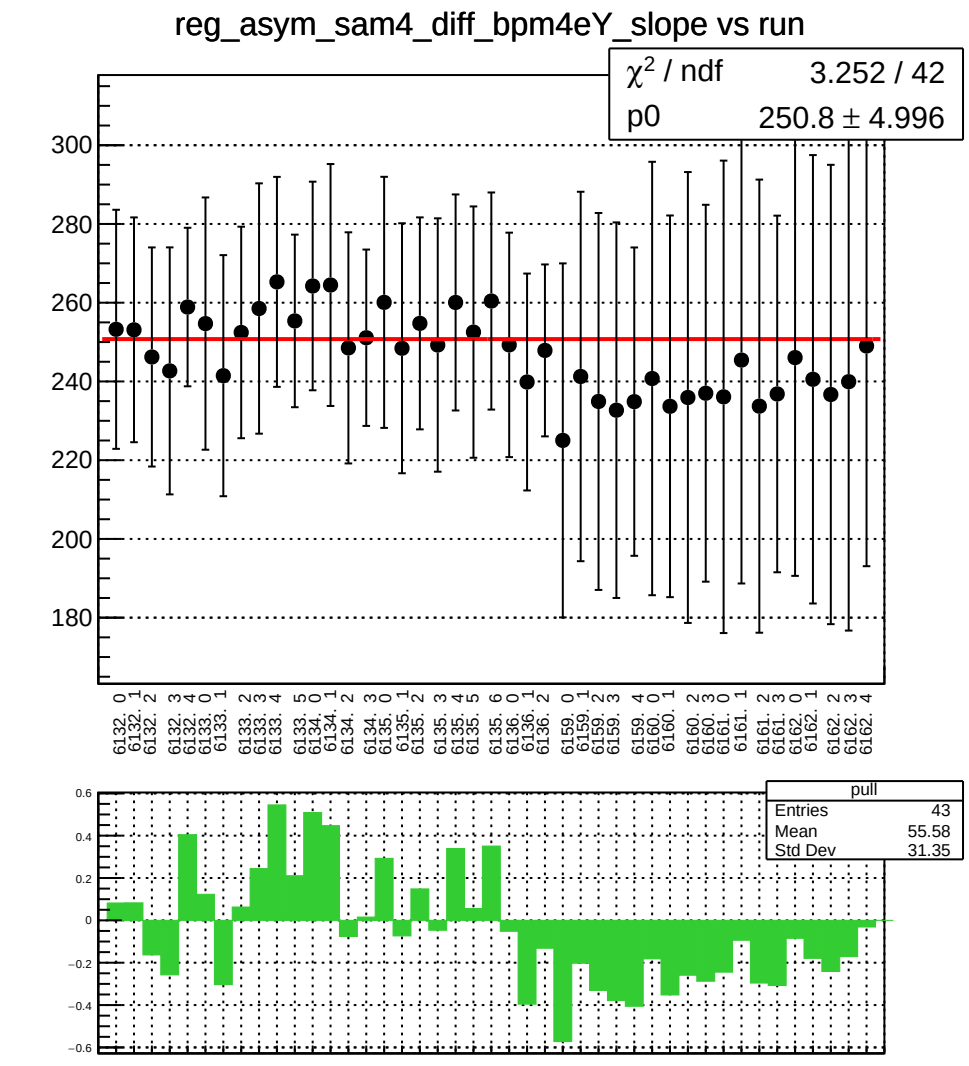

pull1D
Entries 43
Mean 0.02553
Std Dev 0.1536

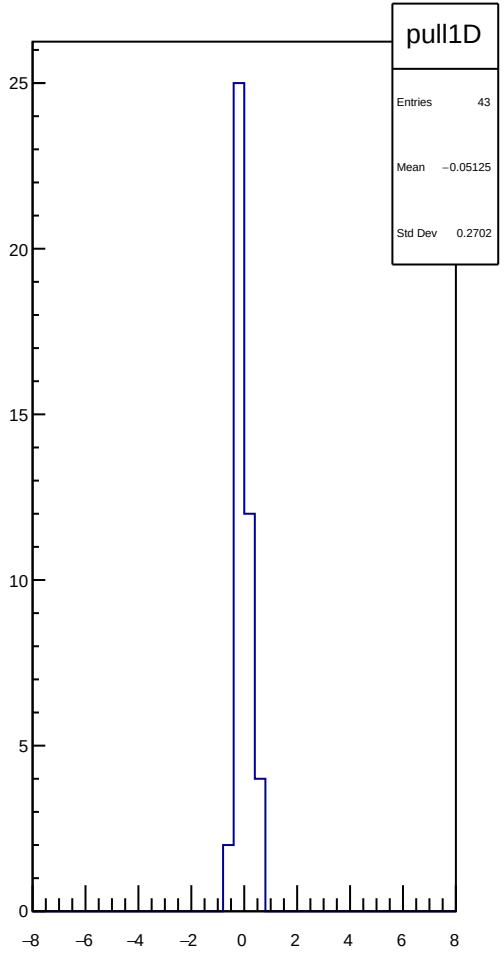

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 2.06 / 42
p0 19.05 ± 4.715
pull
Entries 43
Mean 51.28
Std Dev 26.05

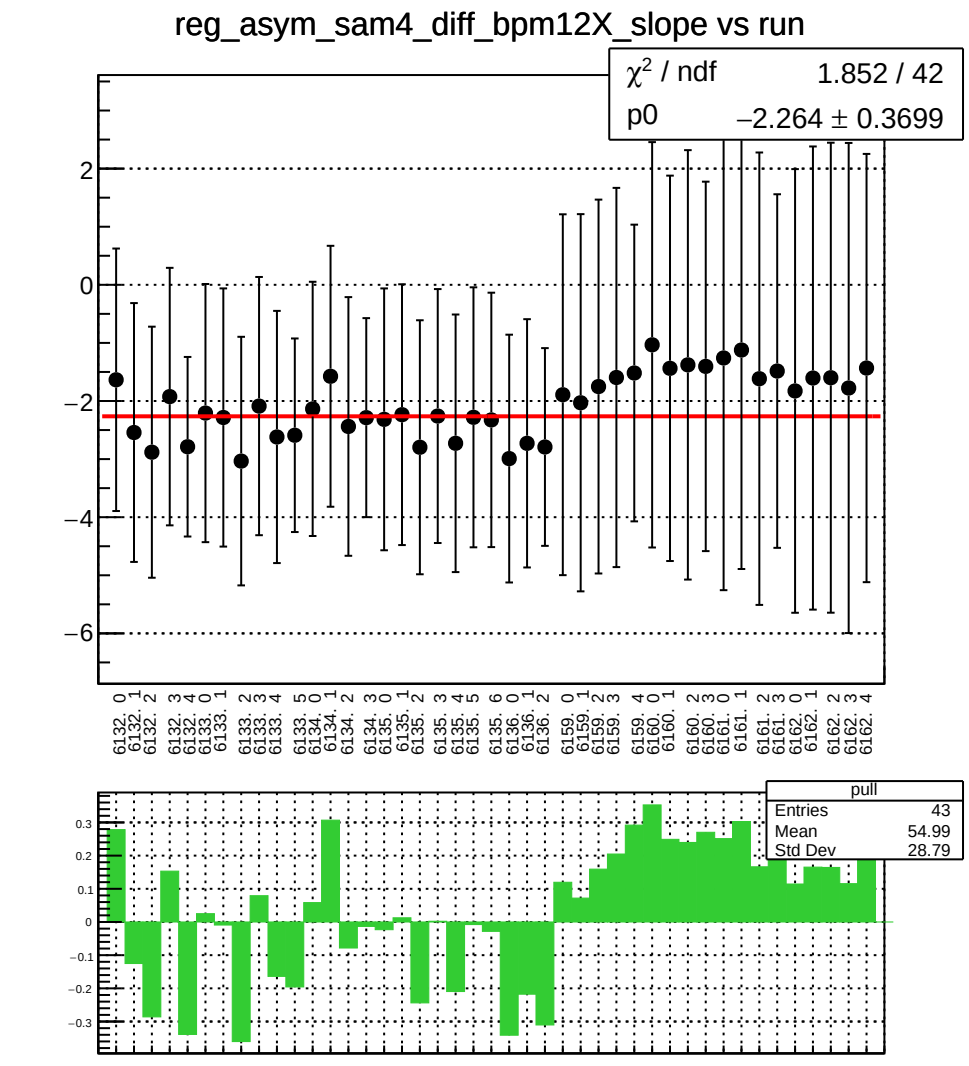

pull1D
Entries 43
Mean 0.03165
Std Dev 0.2166

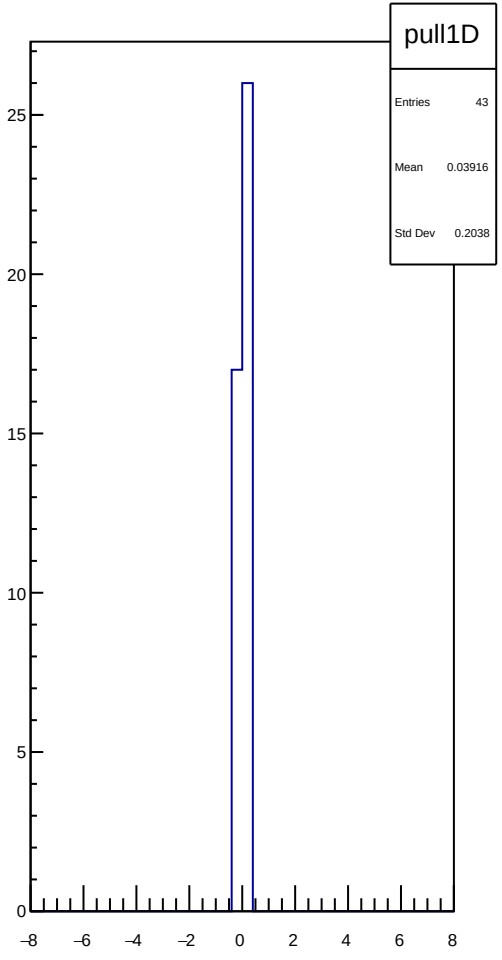

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 1.055 / 42
p0 −131.1 ± 8.348
−50
−100
−150
−200
−250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 62.65
Std Dev 36.73
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

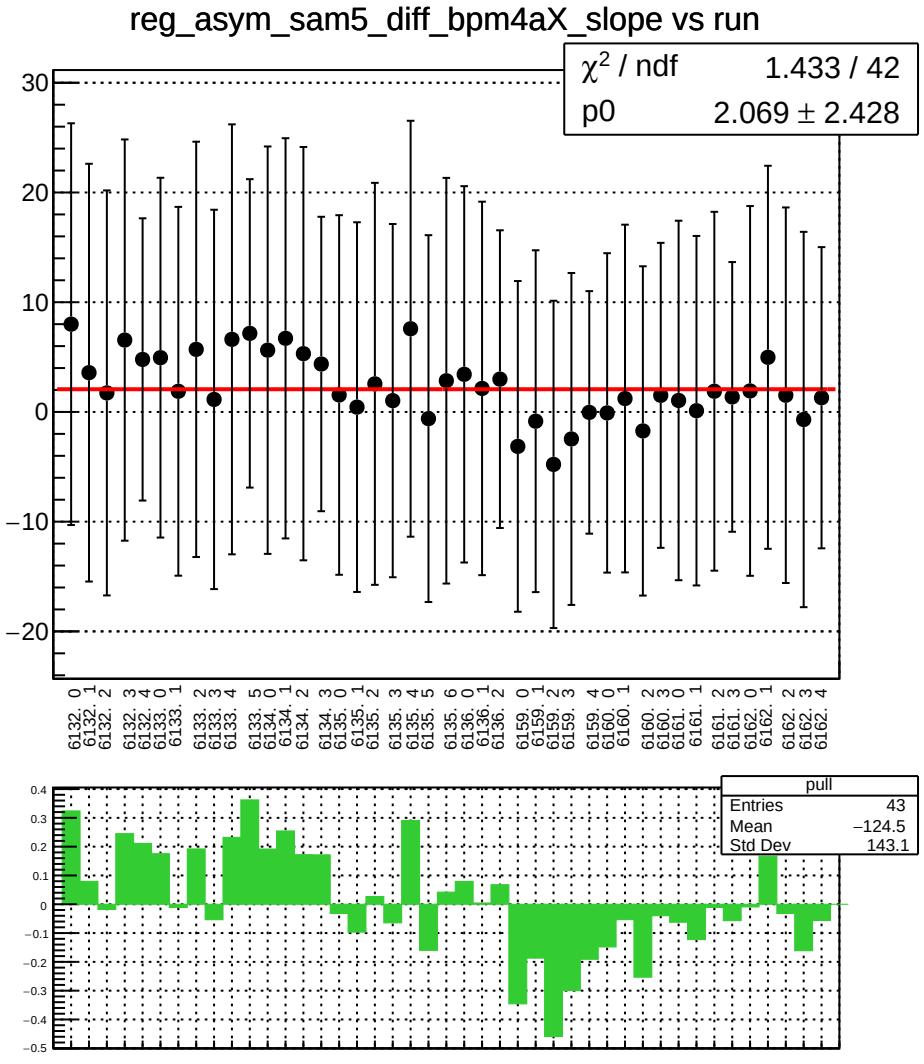

pull1D
Entries 43
Mean −0.02366
Std Dev 0.1548
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

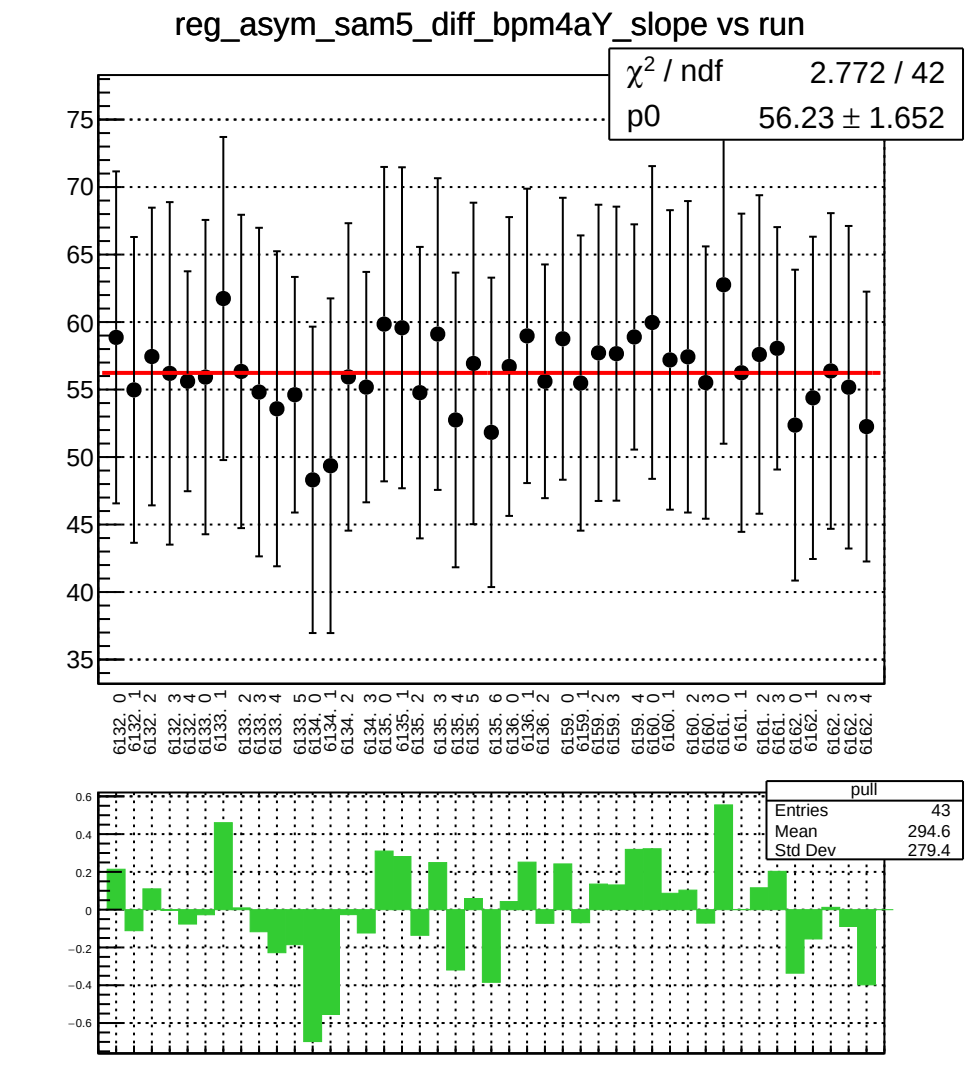

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 3.252 / 42
p0 250.8 ± 4.996
300
280
260
240
220
200
180
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 55.58
Std Dev 31.35
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

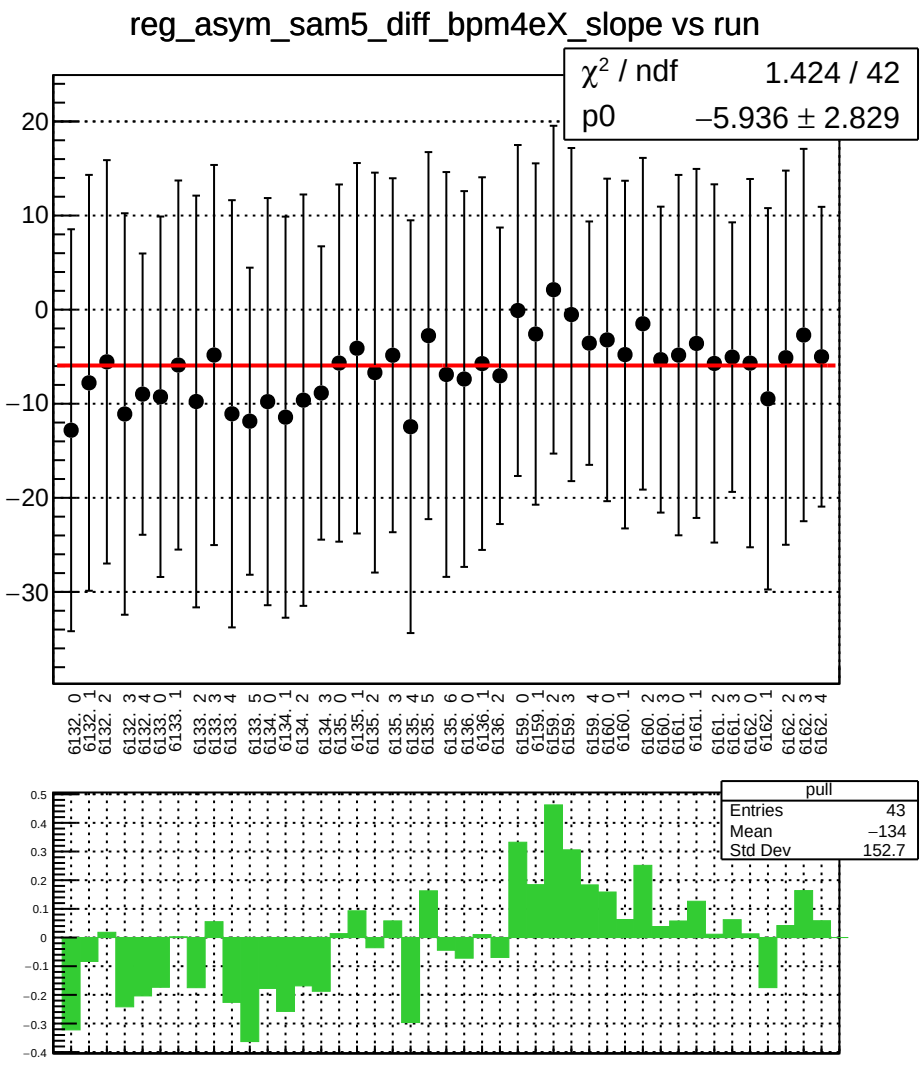

pull1D
Entries 43
Mean −0.05125
Std Dev 0.2702
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

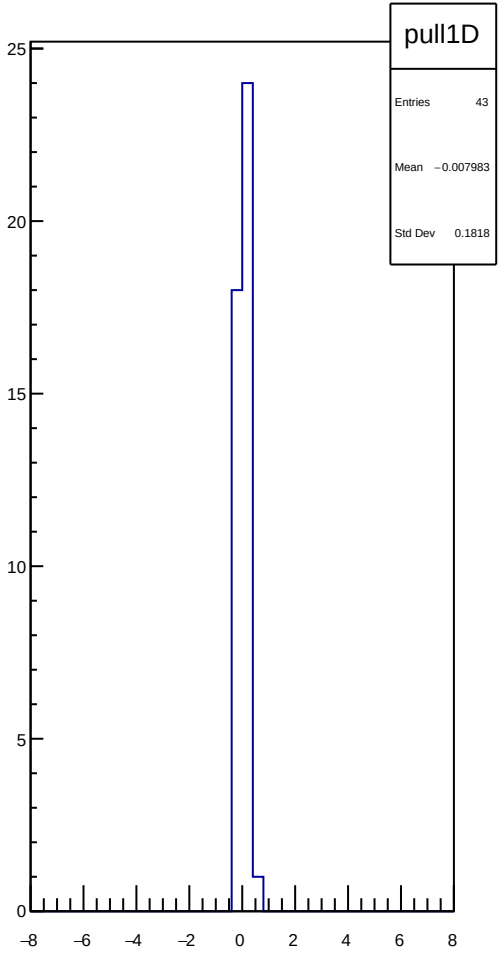

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 1.852 / 42
p0 −2.264 ± 0.3699
pull
Entries 43
Mean 54.99
Std Dev 28.79

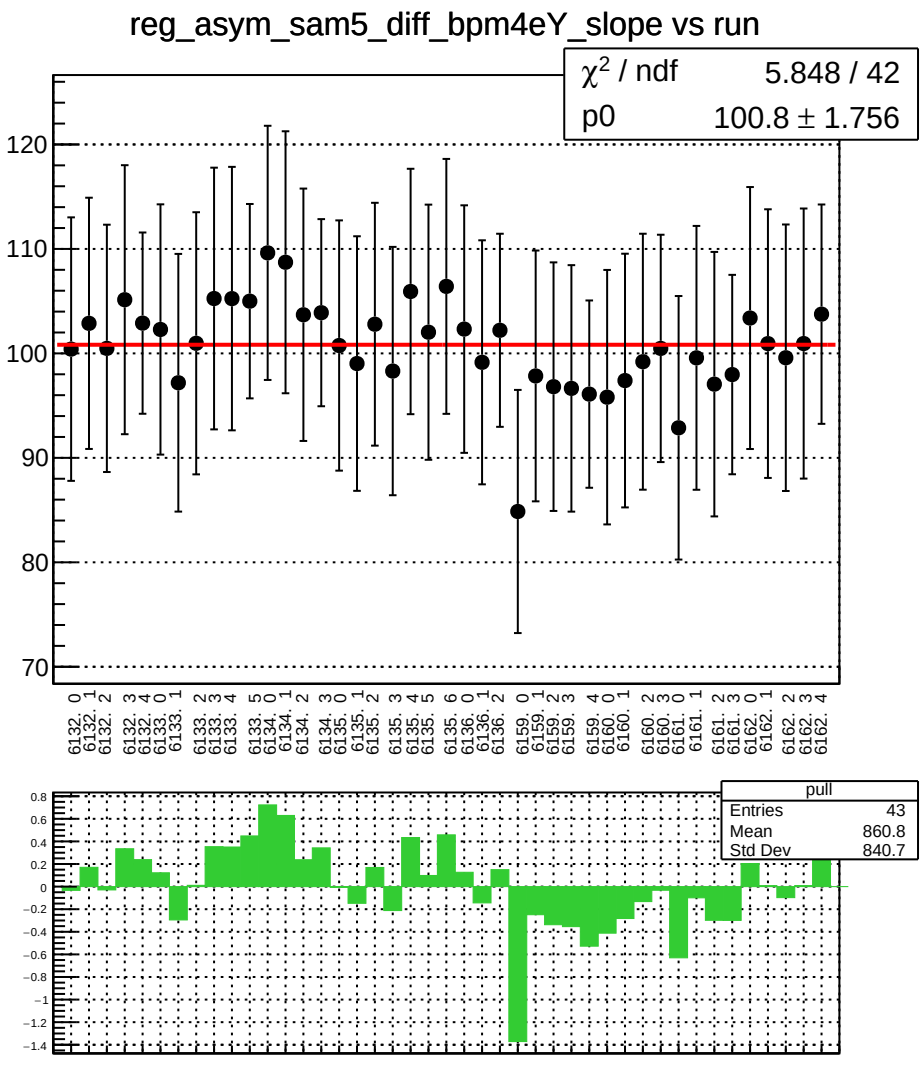

pull1D
Entries 43
Mean 0.03916
Std Dev 0.2038

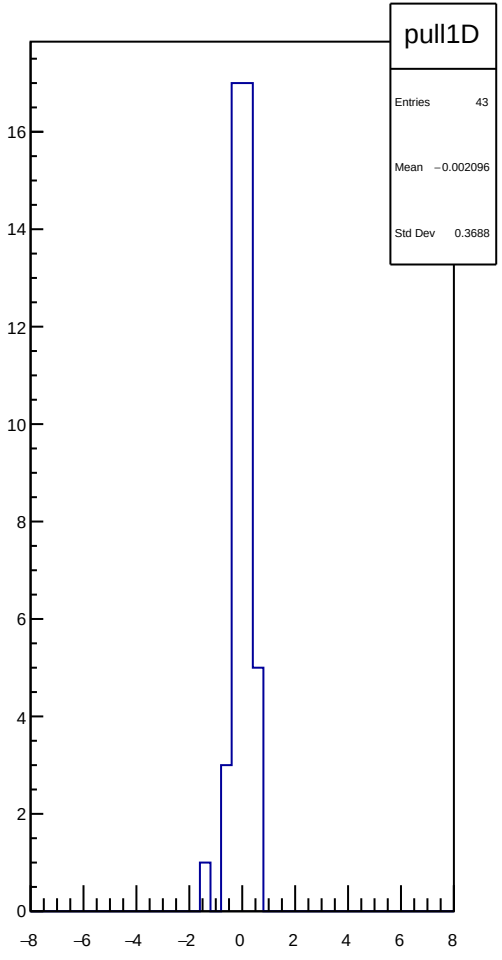

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 1.433 / 42
p0 2.069 ± 2.428
pull
Entries 43
Mean −124.5
Std Dev 143.1
pull1D
Entries 43
Mean 0.008476
Std Dev 0.1824

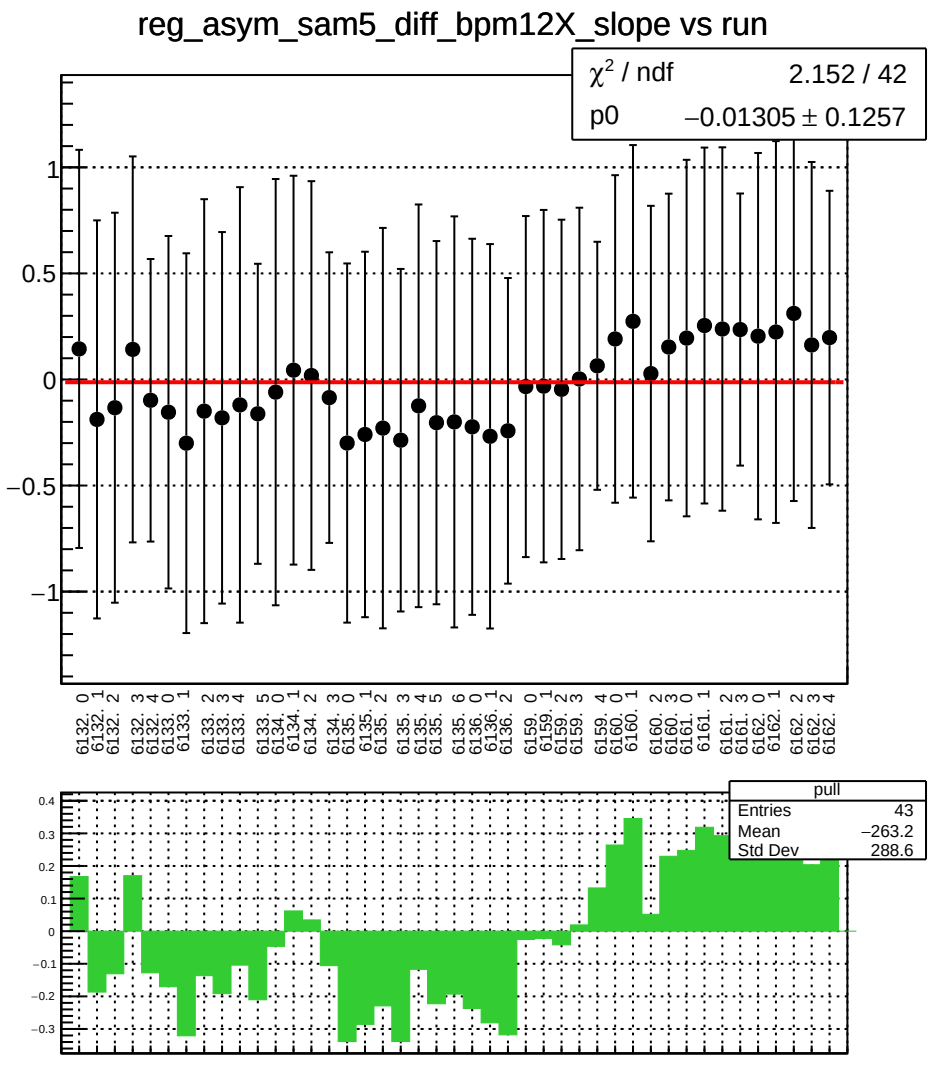

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 2.772 / 42
p0 56.23 ± 1.652
75
70
65
60
55
50
45
40
35
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 294.6
Std Dev 279.4
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean 0.0008433
Std Dev 0.2539
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

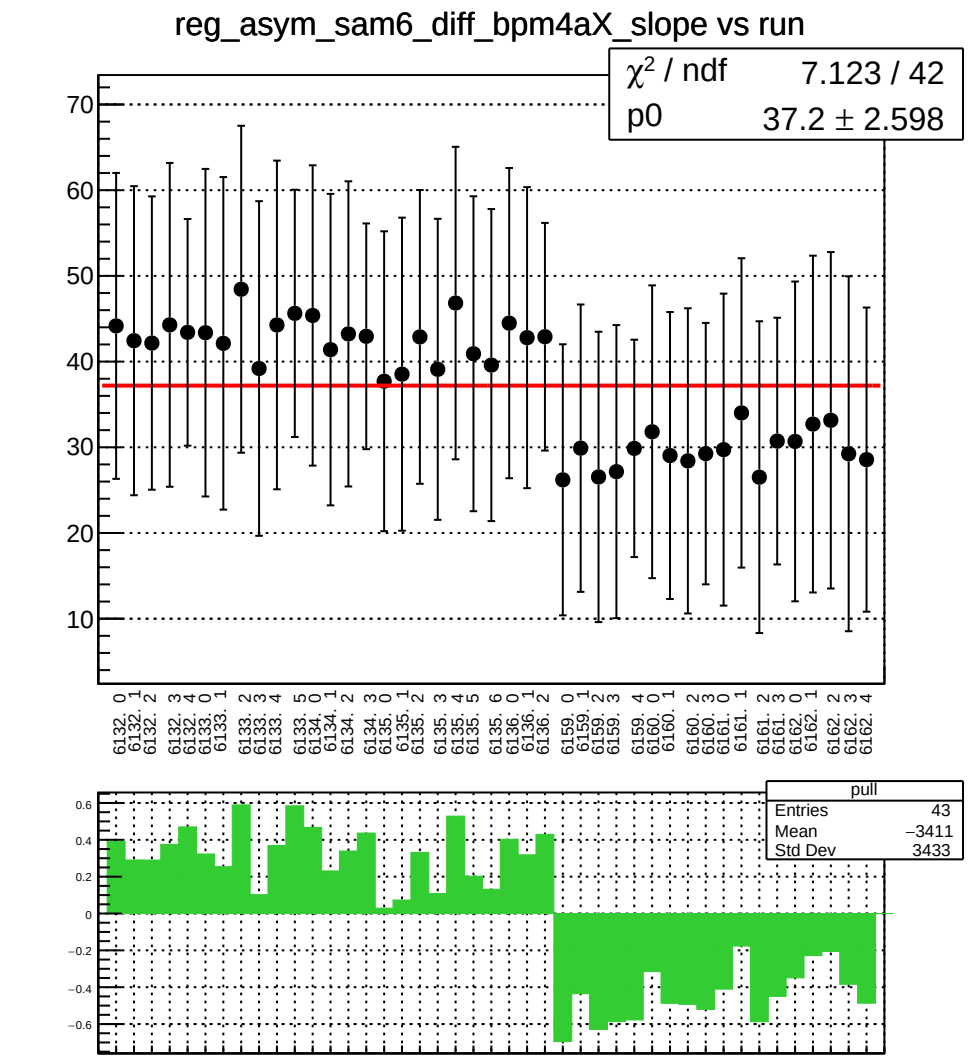

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 1.424 / 42
p0 −5.936 ± 2.829
pull
Entries 43
Mean −134
Std Dev 152.7

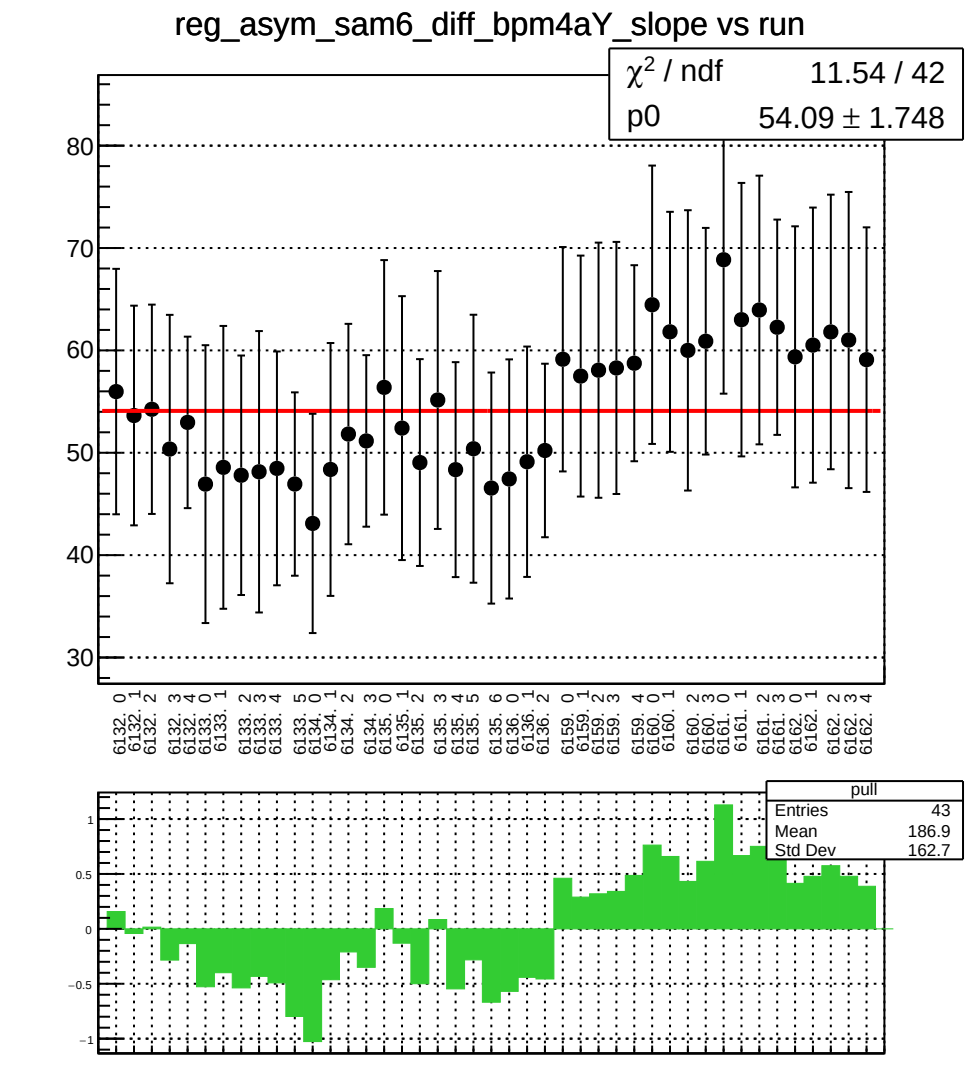

pull1D
Entries 43
Mean −0.007983
Std Dev 0.1818

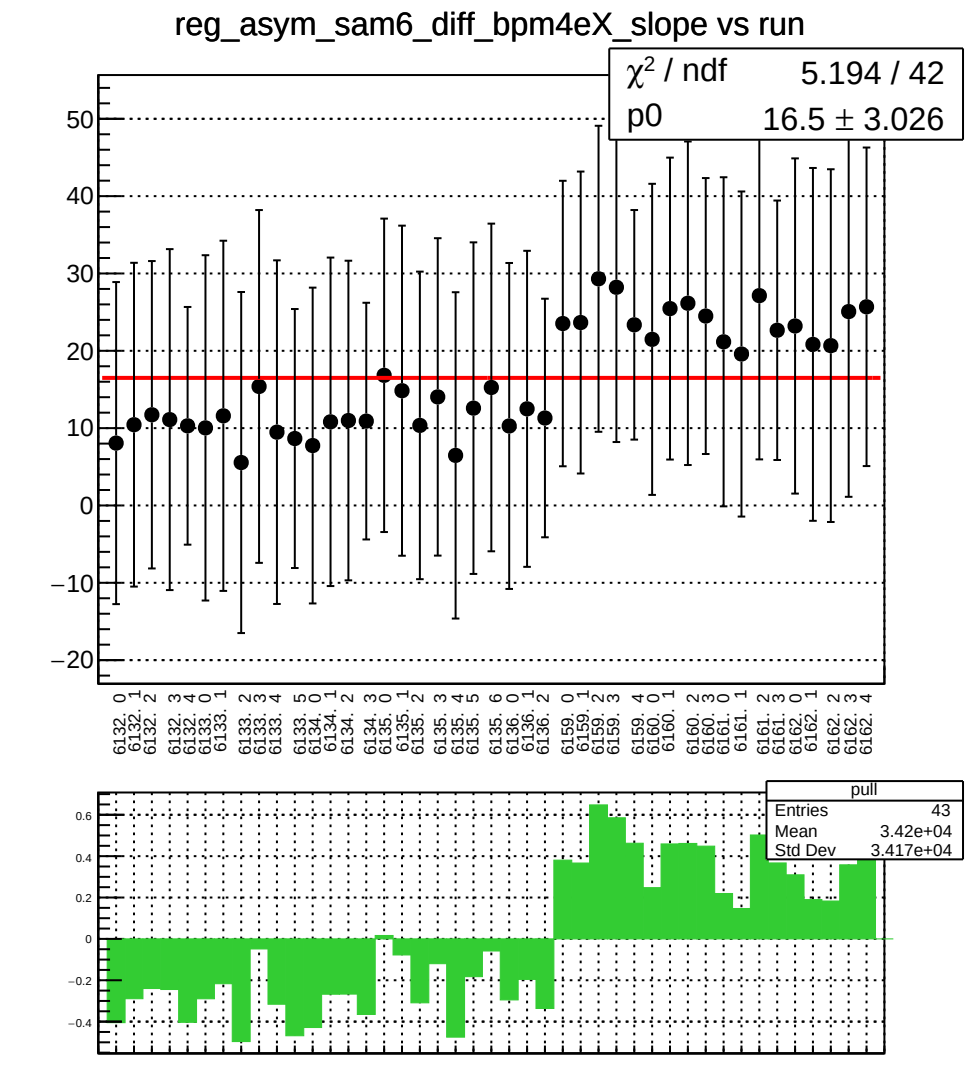

reg_asym_sam5_diff_bpm4eY_slope vs run
χ^2 / ndf 5.848 / 42
p0 100.8 ± 1.756
120
110
100
90
80
70
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 860.8
Std Dev 840.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

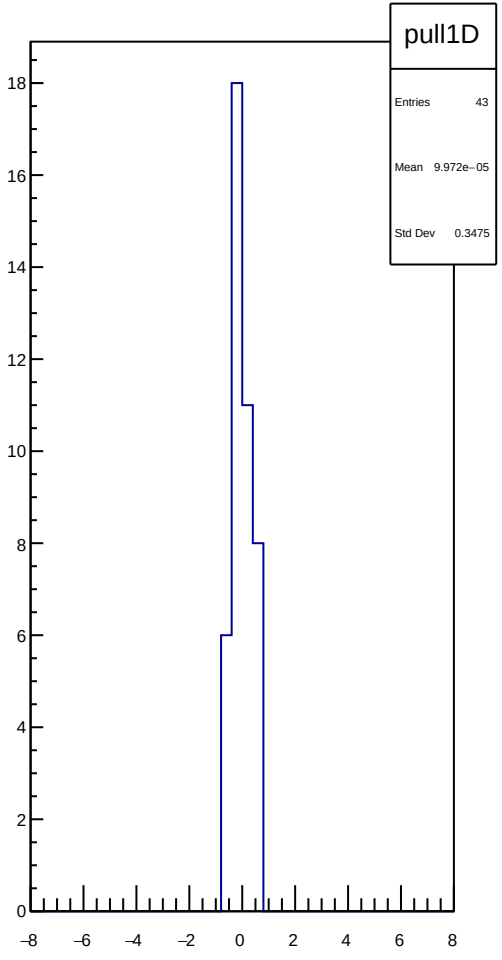

pull1D
Entries 43
Mean −0.002096
Std Dev 0.3688
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

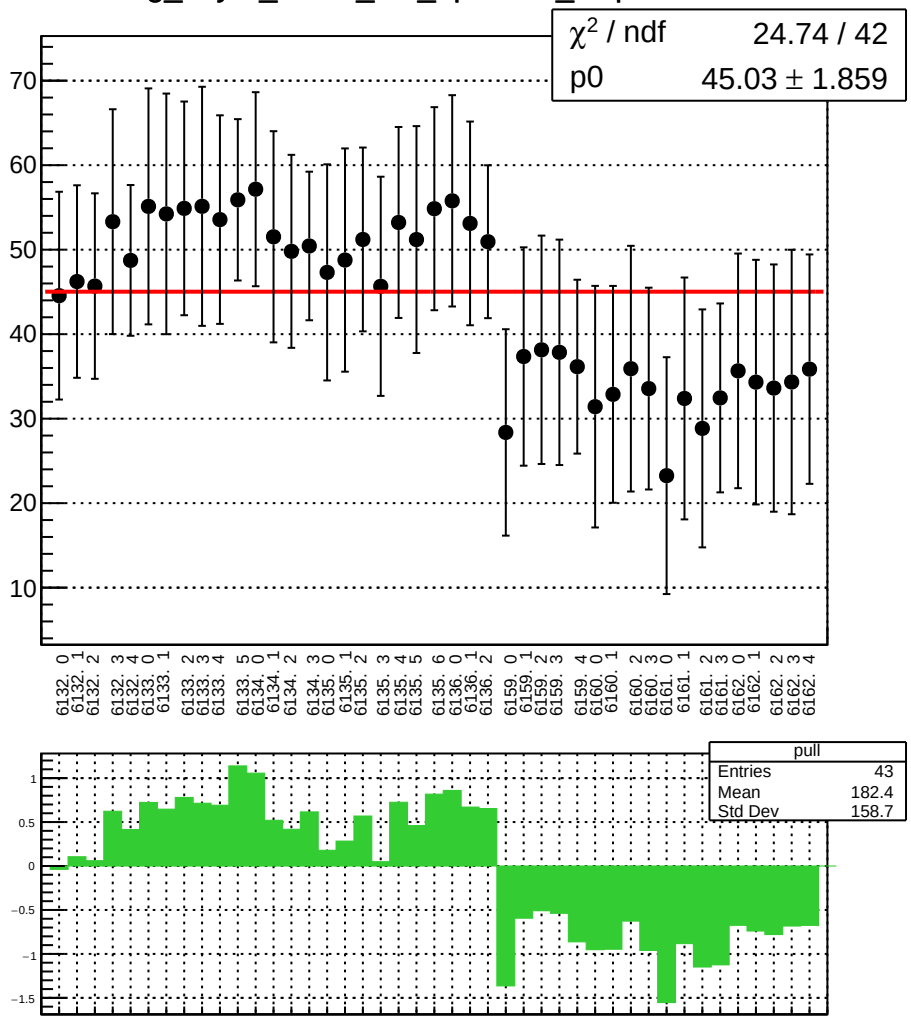

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 2.152 / 42
p0 −0.01305 ± 0.1257
1
0.5
0
−0.5
−1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −263.2
Std Dev 288.6
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 43
Mean −0.006239
Std Dev 0.2236
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

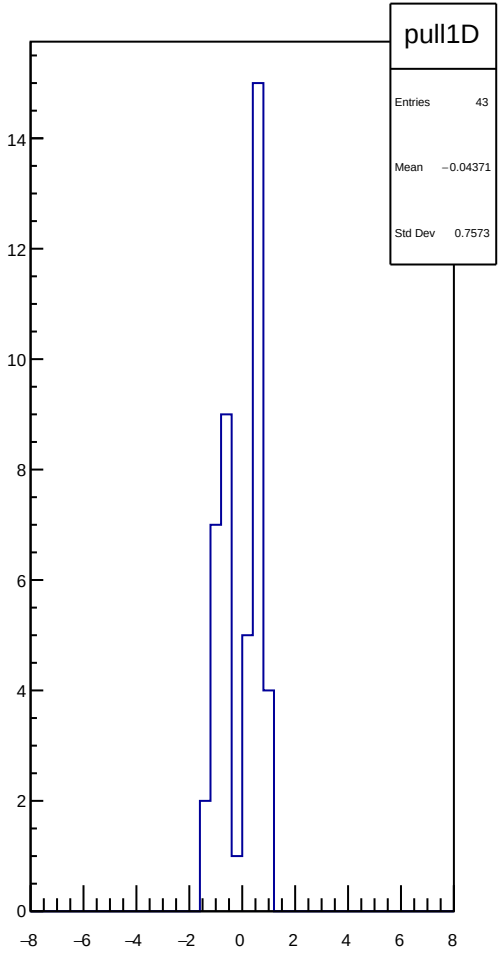

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 7.123 / 42
p0 37.2 ± 2.598
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −3411
Std Dev 3433
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean 0.001151
Std Dev 0.407
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

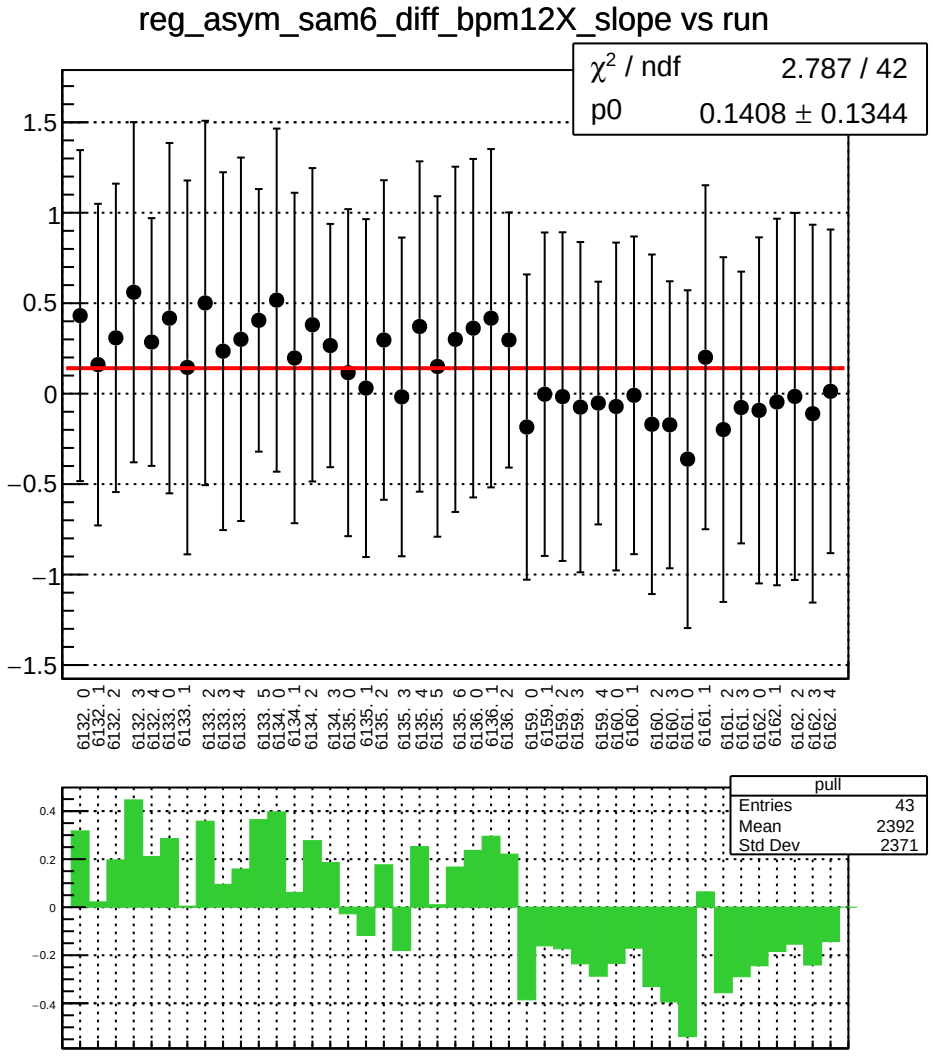

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 11.54 / 42
p0 54.09 ± 1.748
80
70
60
50
40
30
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 186.9
Std Dev 162.7
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.02733
Std Dev 0.5173
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

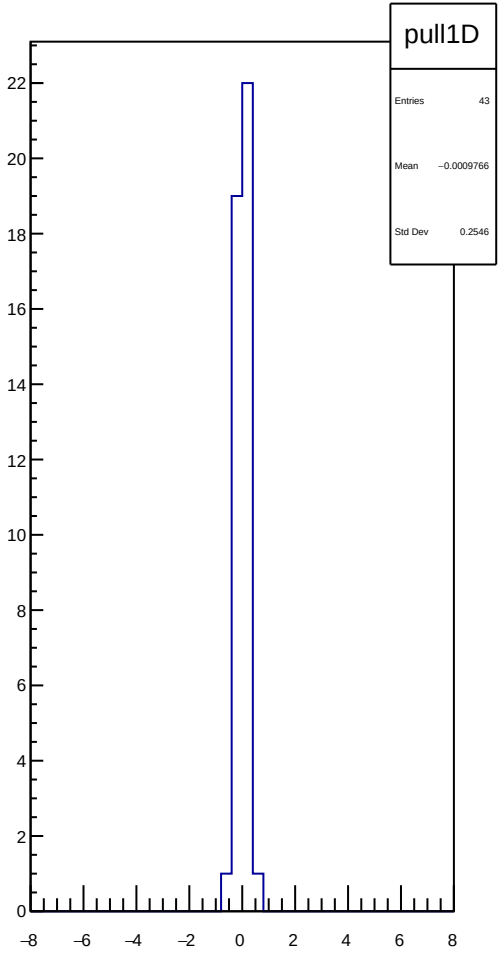

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 5.194 / 42
p0 16.5 ± 3.026
pull
Entries 43
Mean 3.42e+04
Std Dev 3.417e+04

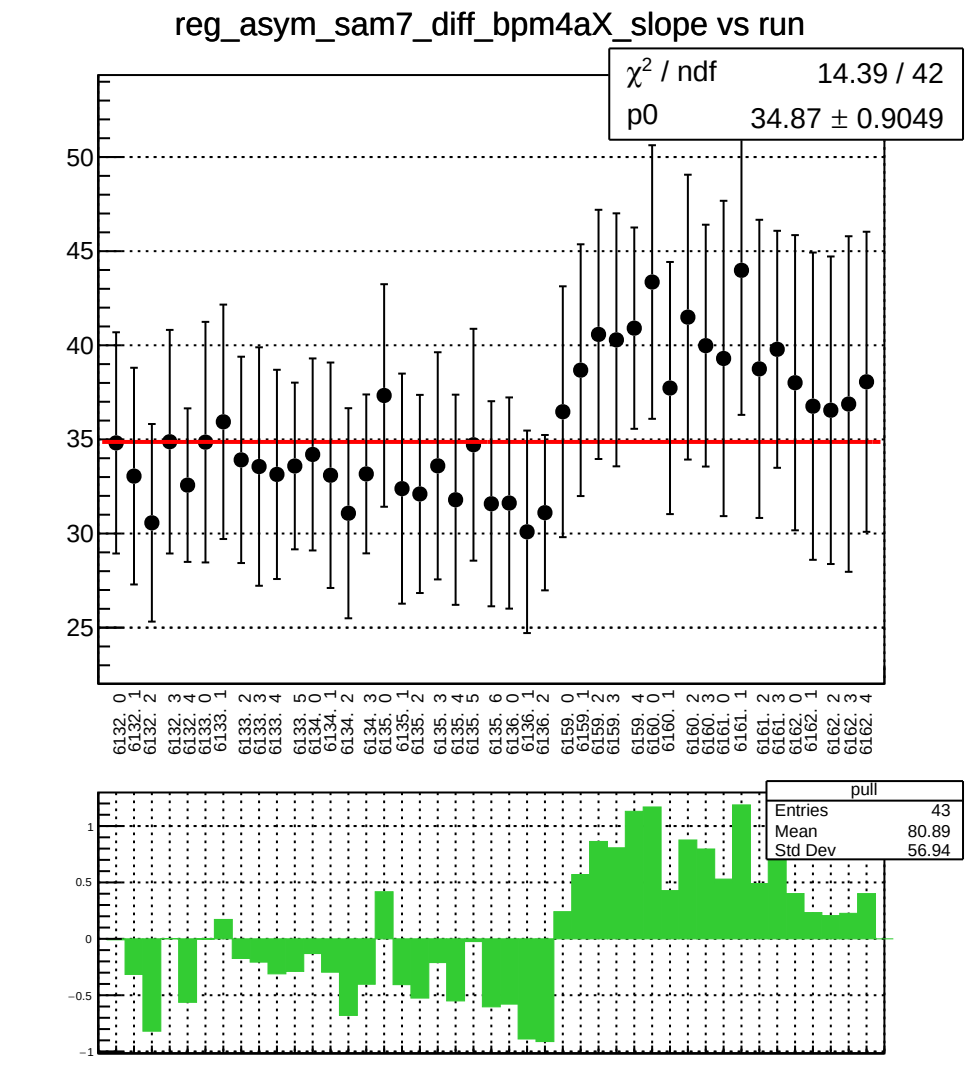

pull1D
Entries 43
Mean 9.972e−05
Std Dev 0.3475

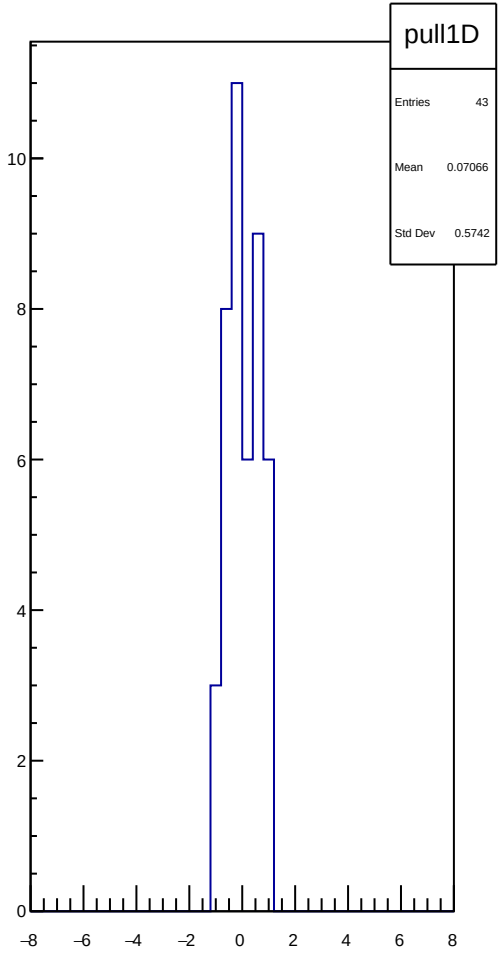

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 24.74 / 42
p0 45.03 ± 1.859
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 182.4
Std Dev 158.7
1
0.5
0
−0.5
−1
−1.5

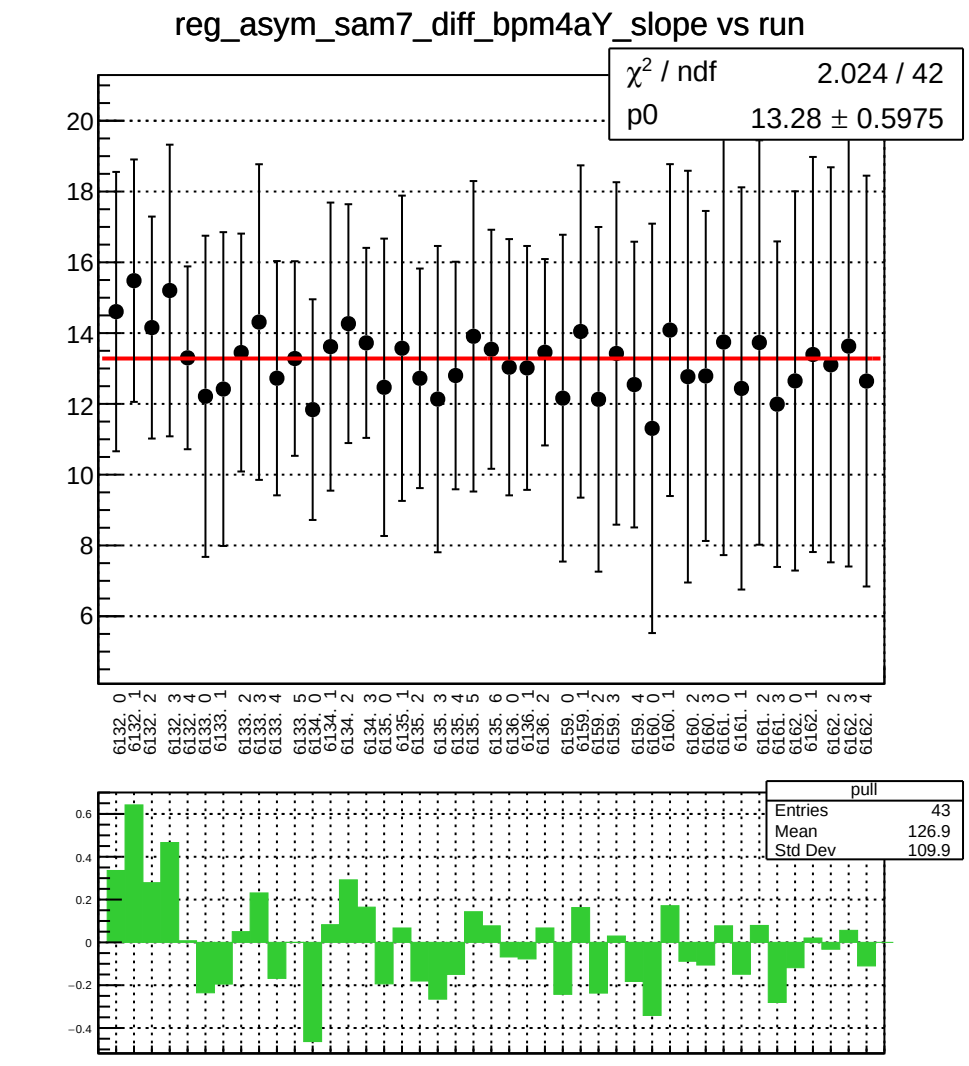

pull1D
Entries 43
Mean −0.04371
Std Dev 0.7573
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

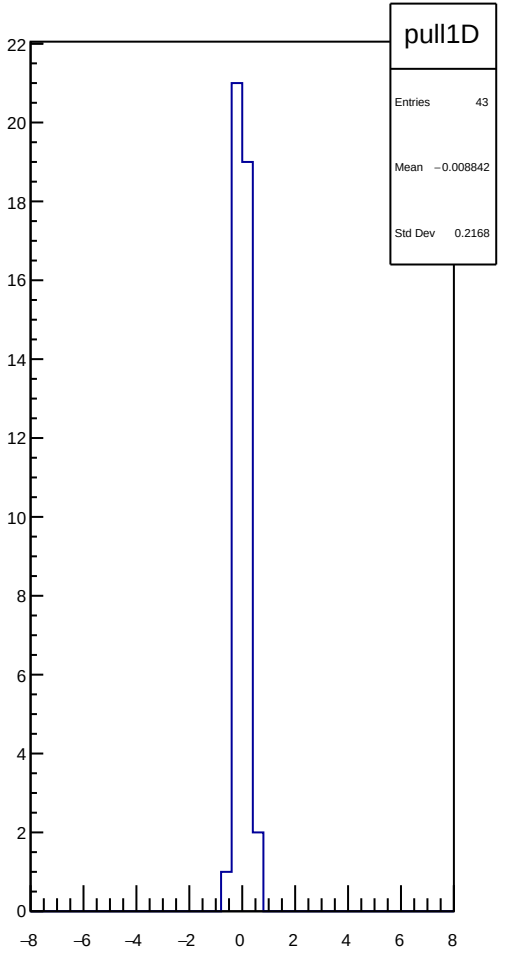

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 2.787 / 42
p0 0.1408 ± 0.1344
1.5
1
0.5
0
−0.5
−1
−1.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 2392
Std Dev 2371
0.4
0.2
0
−0.2
−0.4

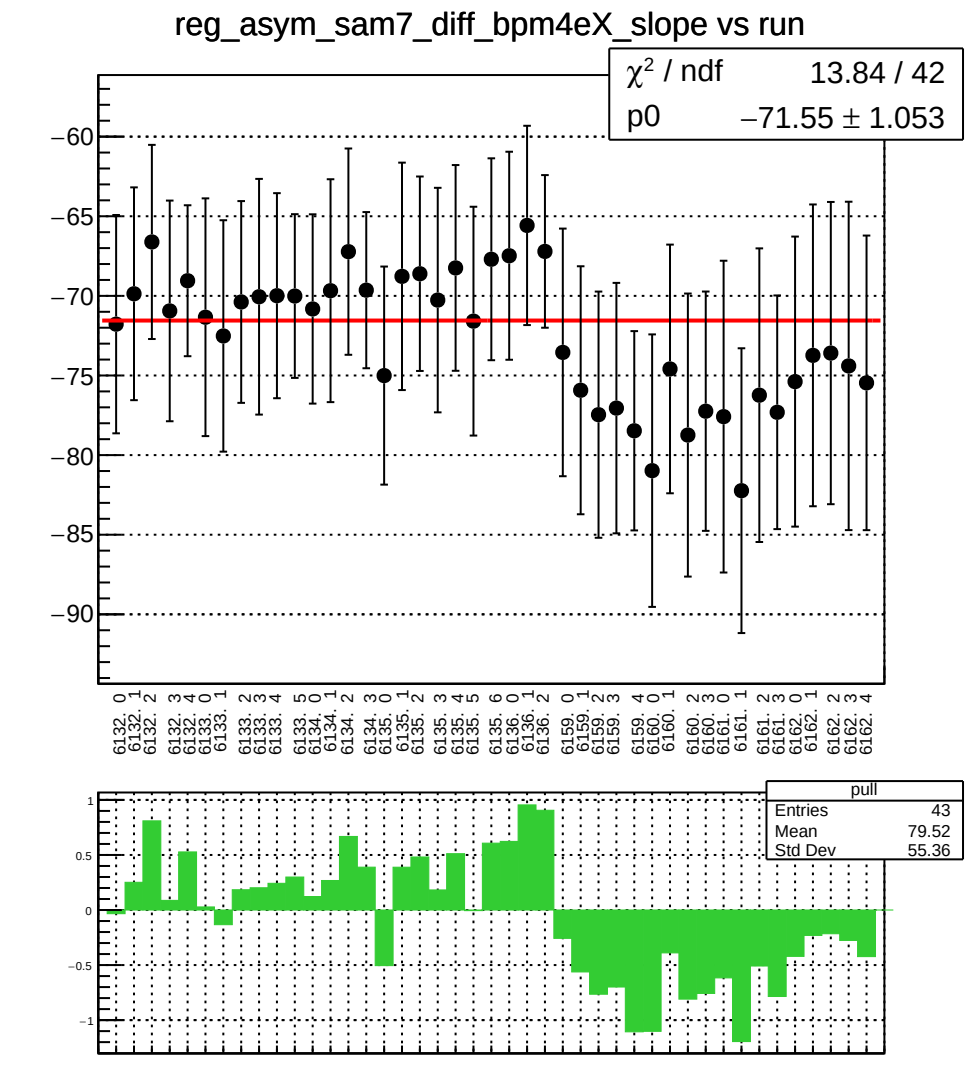

pull1D
Entries 43
Mean −0.0009766
Std Dev 0.2546
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

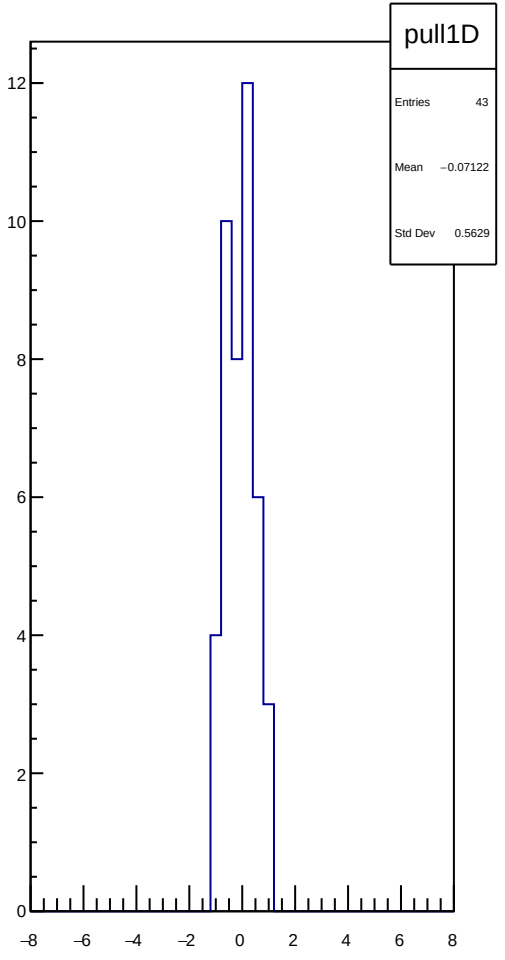

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 14.39 / 42
p0 34.87 ± 0.9049
pull
Entries 43
Mean 80.89
Std Dev 56.94

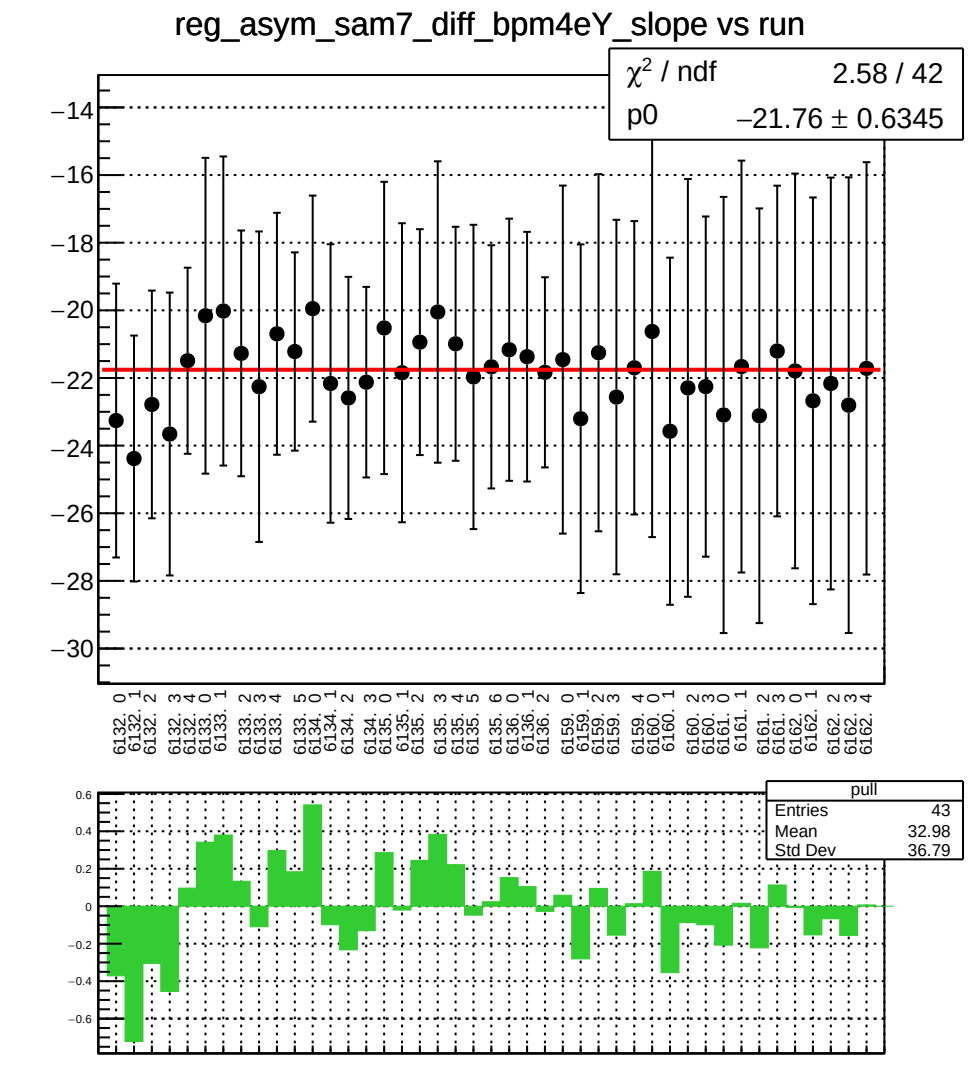

pull1D
Entries 43
Mean 0.07066
Std Dev 0.5742

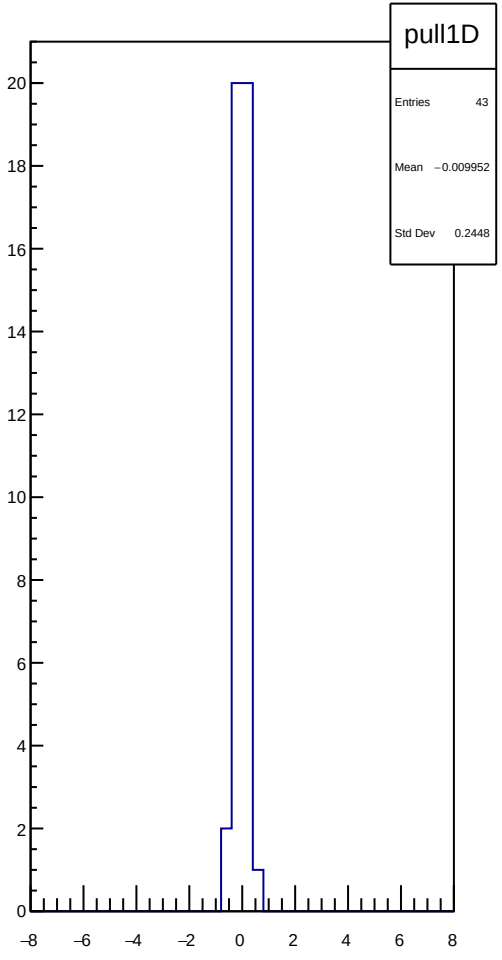

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 2.024 / 42
p0 13.28 ± 0.5975
pull
Entries 43
Mean 126.9
Std Dev 109.9

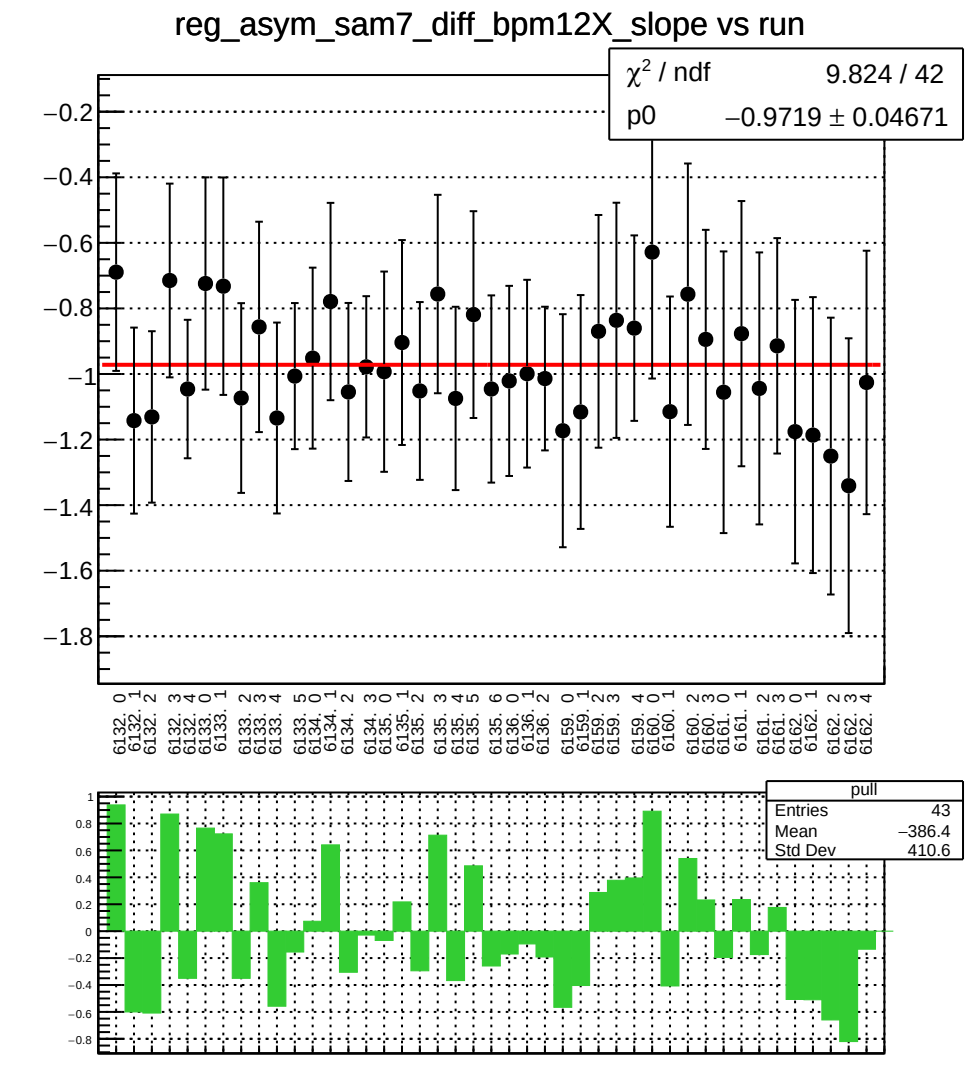

pull1D
Entries 43
Mean −0.008842
Std Dev 0.2168

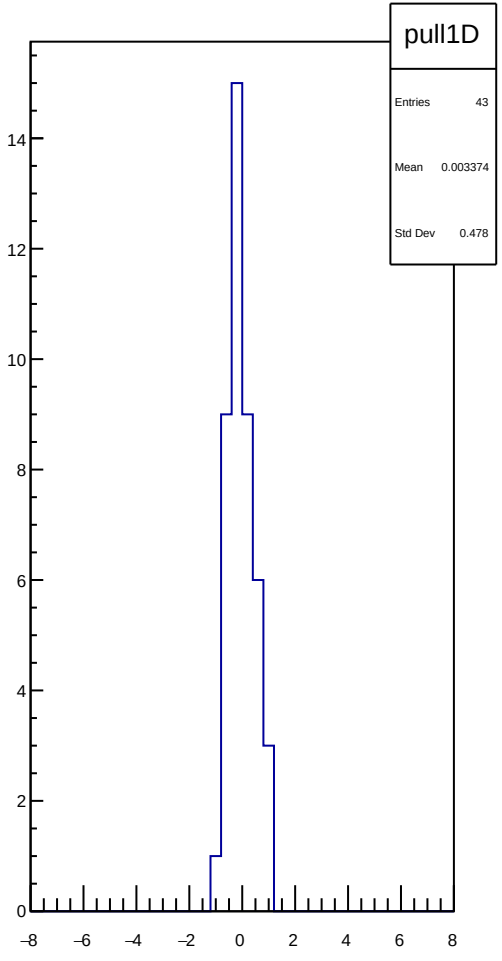

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 13.84 / 42
p0 −71.55 ± 1.053
pull
Entries 43
Mean 79.52
Std Dev 55.36

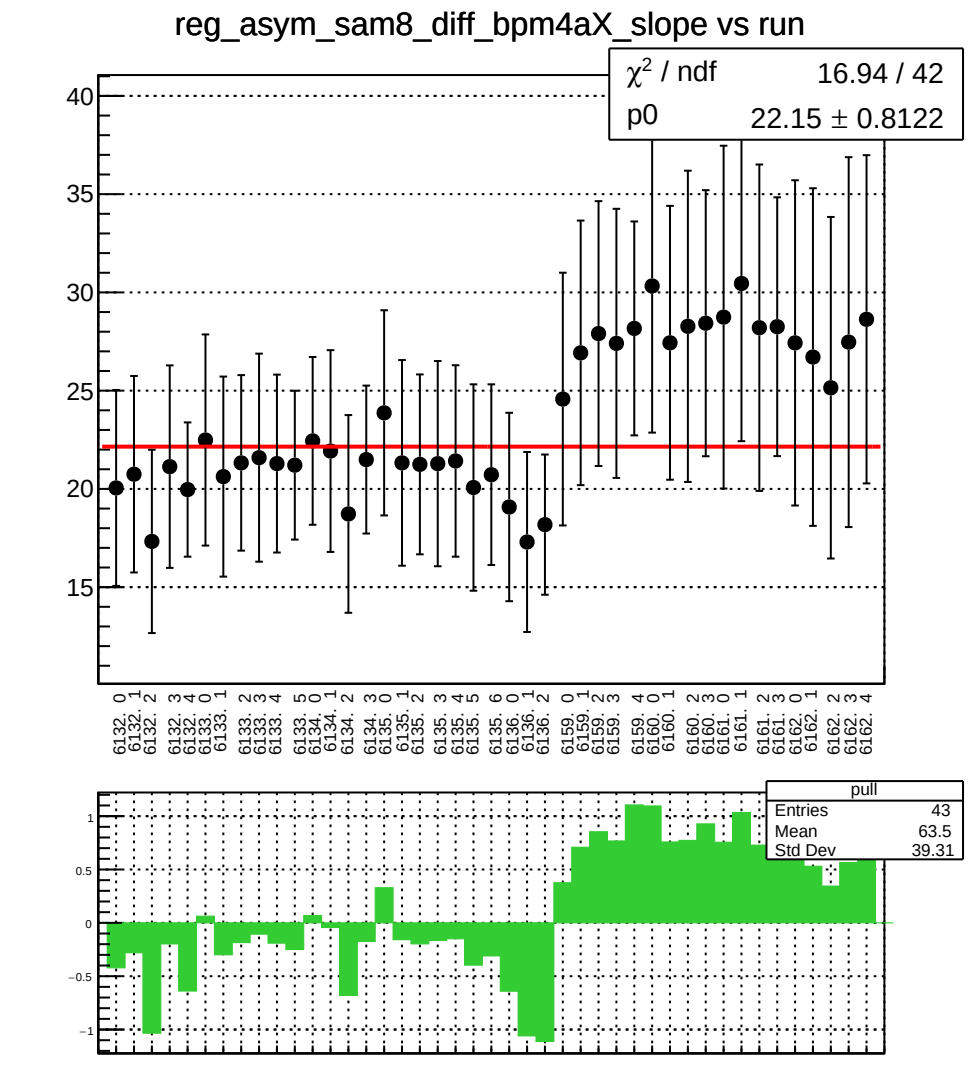

pull1D
Entries 43
Mean −0.07122
Std Dev 0.5629

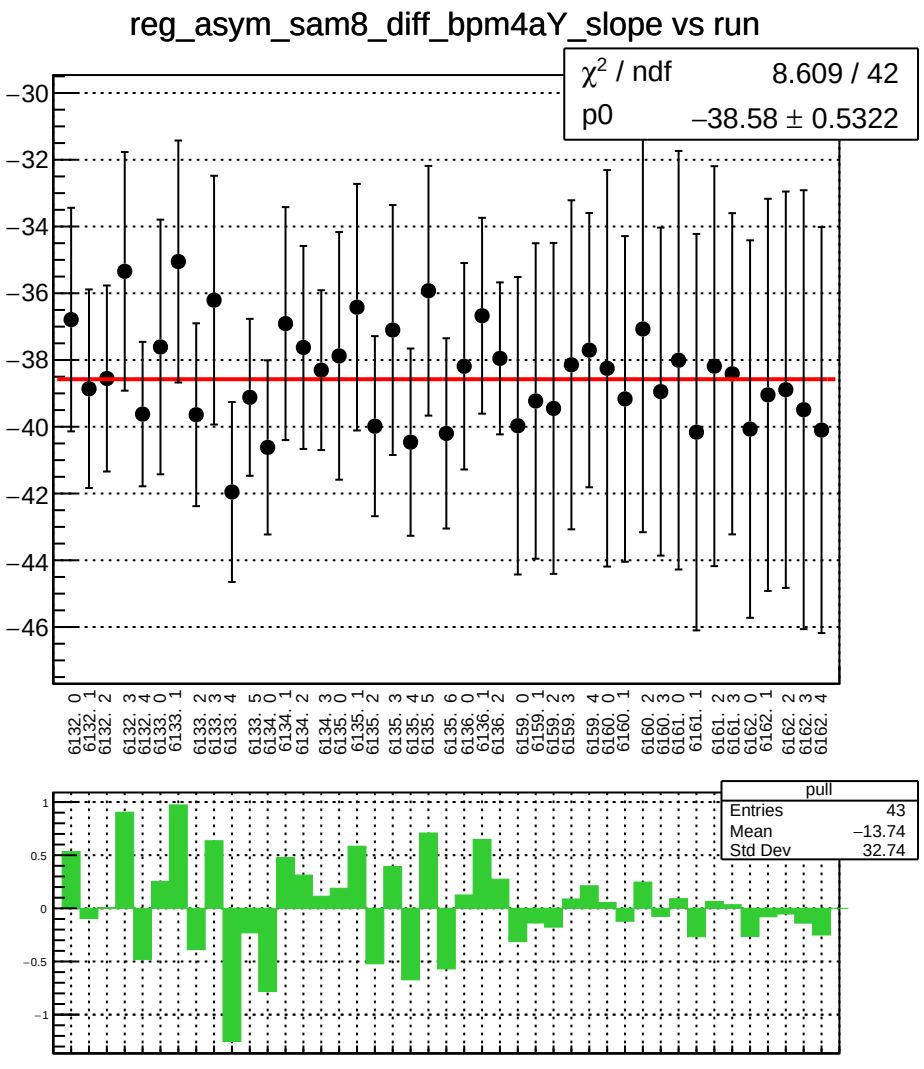

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 2.58 / 42
p0 −21.76 ± 0.6345
pull
Entries 43
Mean 32.98
Std Dev 36.79

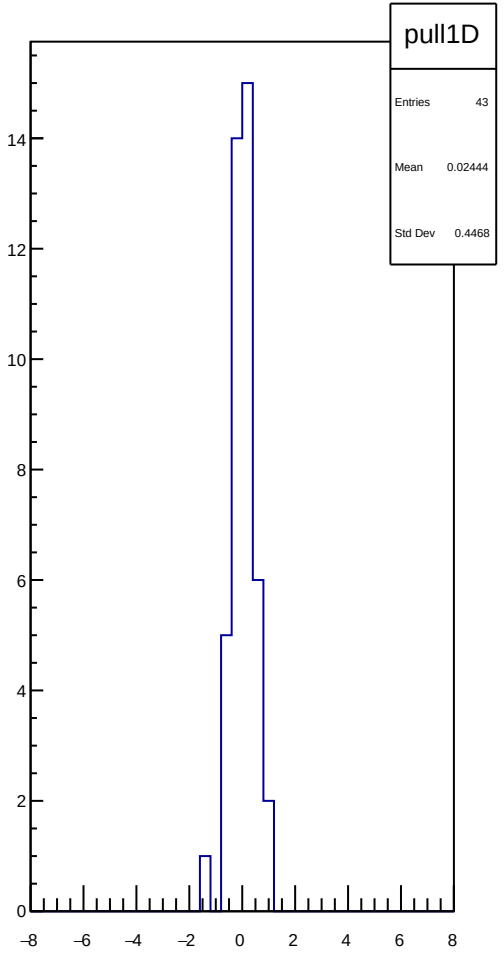

pull1D
Entries 43
Mean −0.009952
Std Dev 0.2448

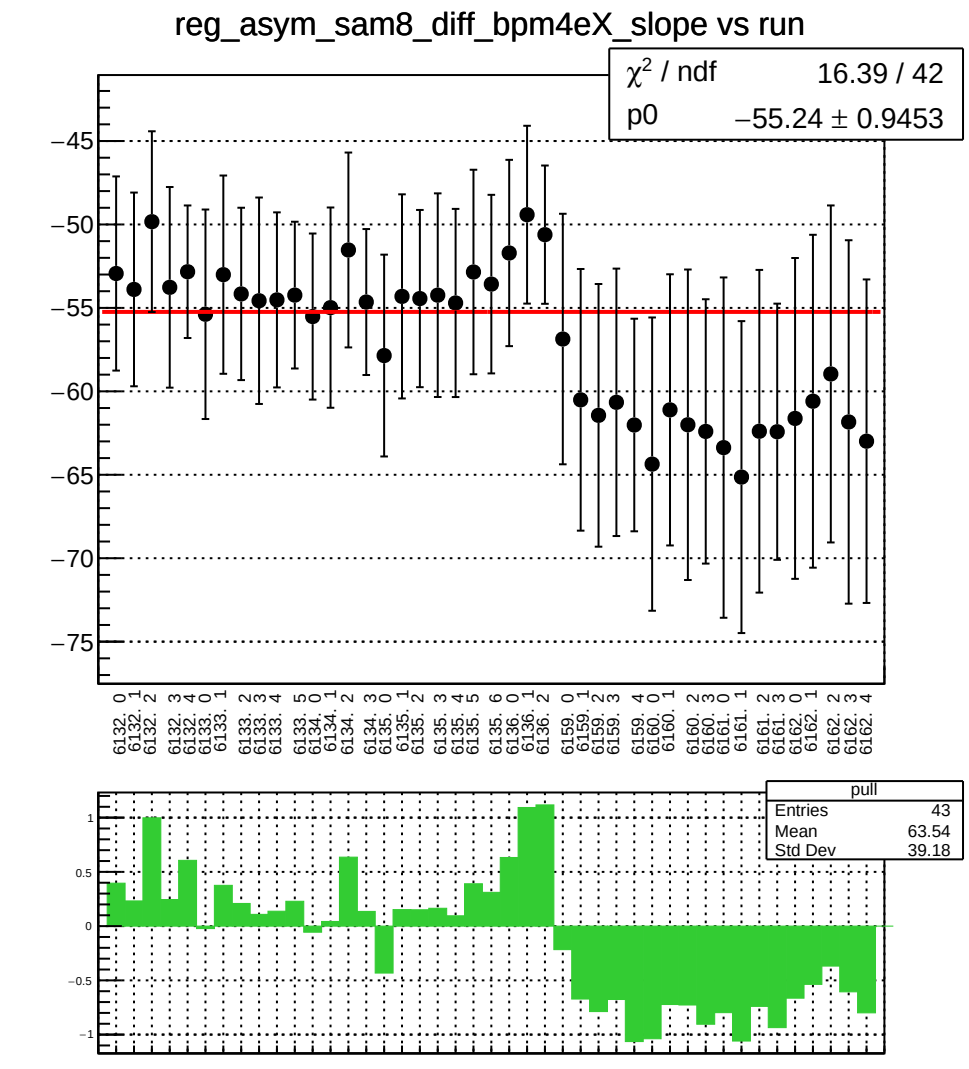

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 9.824 / 42
p0 −0.9719 ± 0.04671
pull
Entries 43
Mean −386.4
Std Dev 410.6

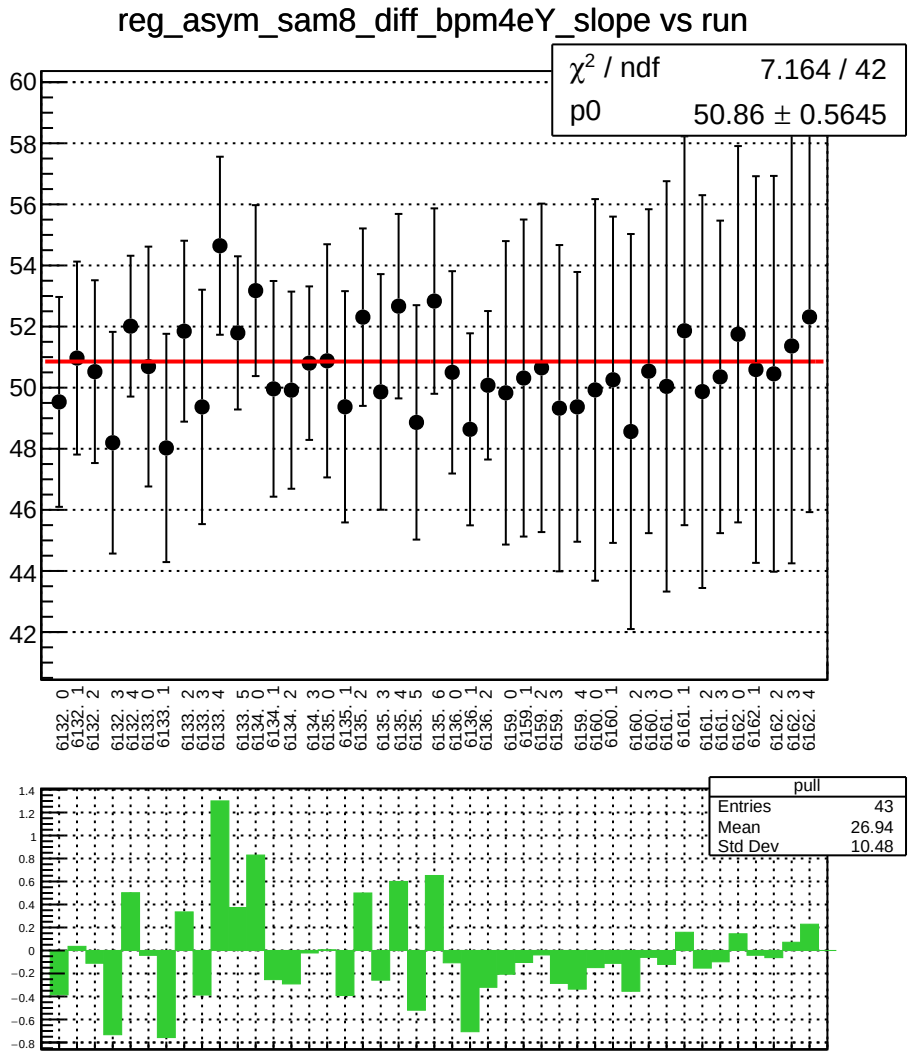

pull1D
Entries 43
Mean 0.003374
Std Dev 0.478

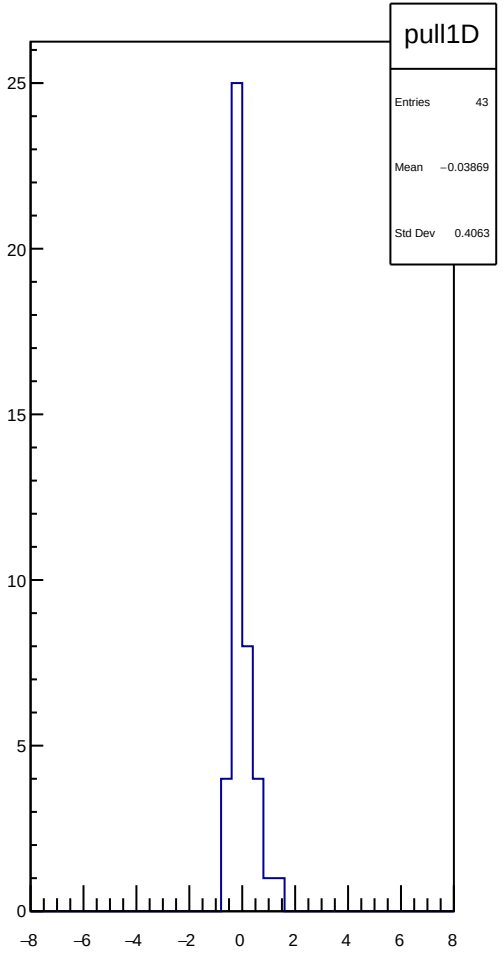

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 16.94 / 42
p0 22.15 ± 0.8122
40
35
30
25
20
15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 63.5
Std Dev 39.31
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.1263
Std Dev 0.6147
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

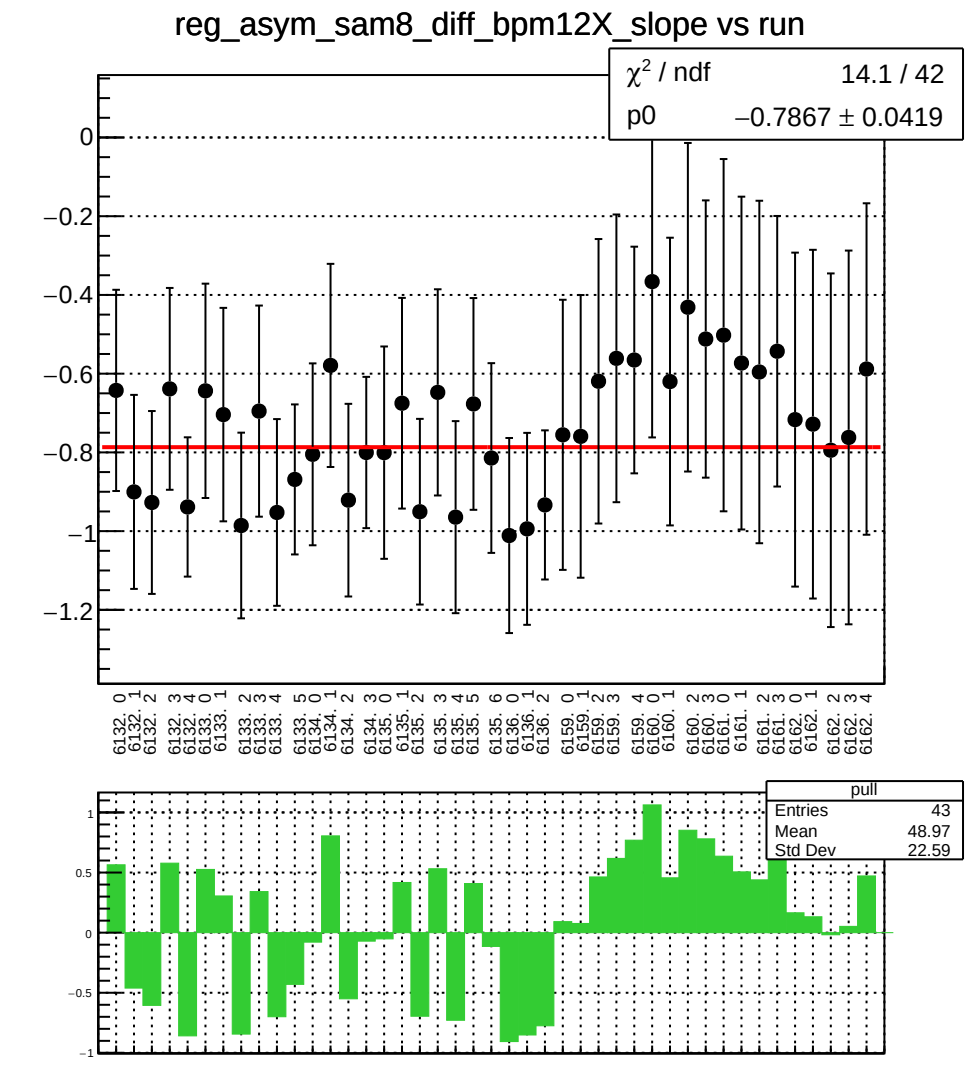

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 8.609 / 42
p0 −38.58 ± 0.5322
pull
Entries 43
Mean −13.74
Std Dev 32.74

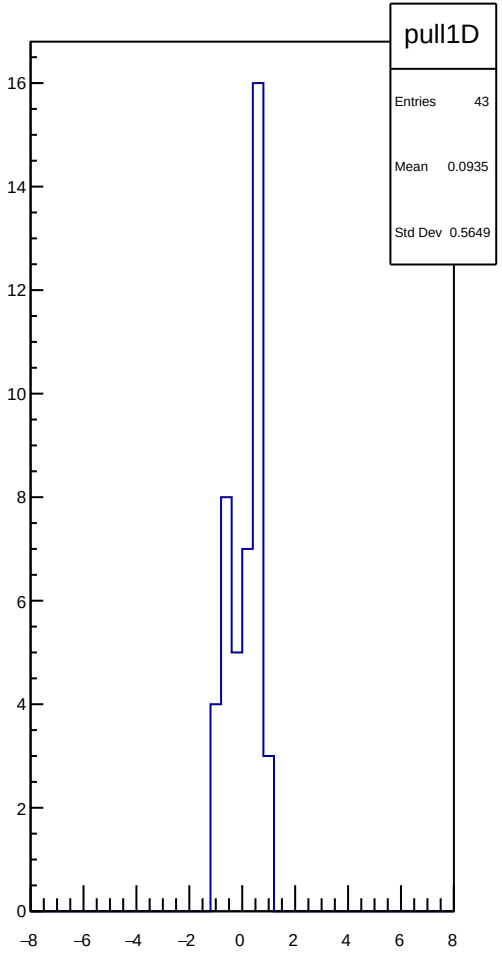

pull1D
Entries 43
Mean 0.02444
Std Dev 0.4468

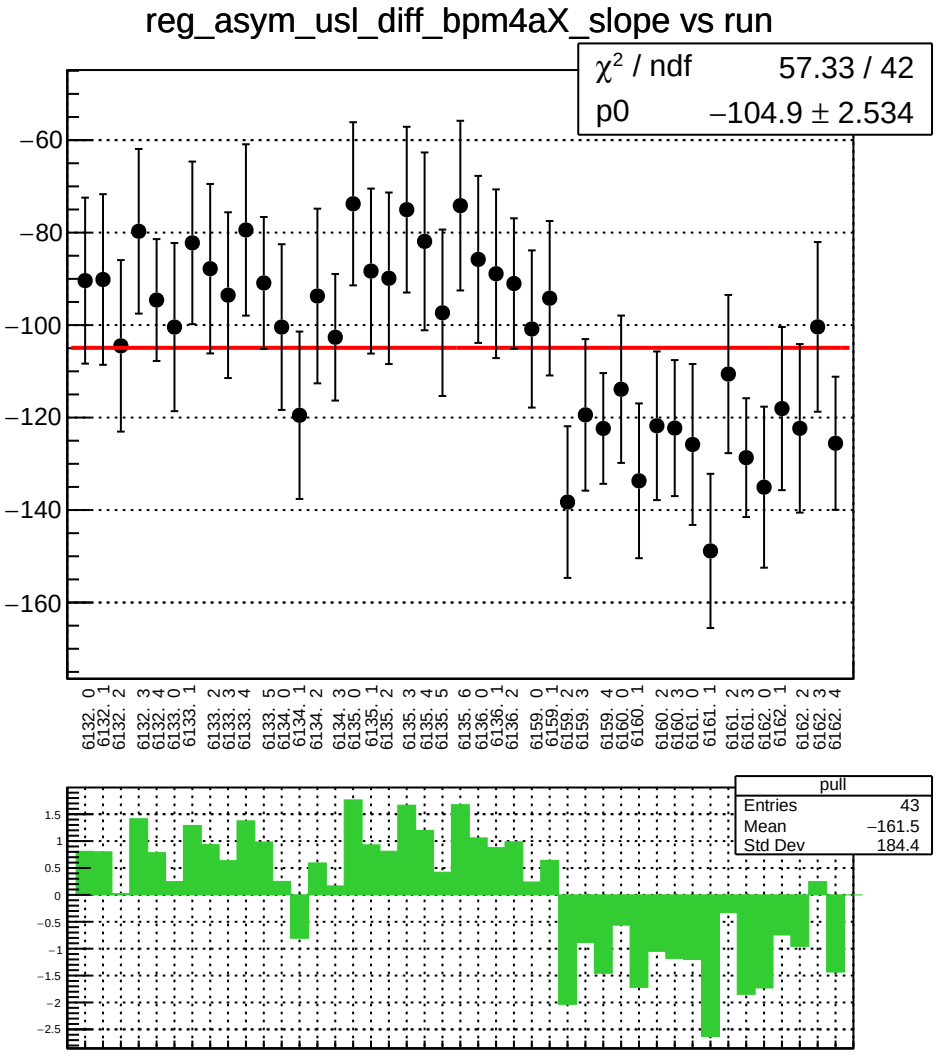

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 16.39 / 42
p0 −55.24 ± 0.9453
−45
−50
−55
−60
−65
−70
−75
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 63.54
Std Dev 39.18
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.1248
Std Dev 0.6047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

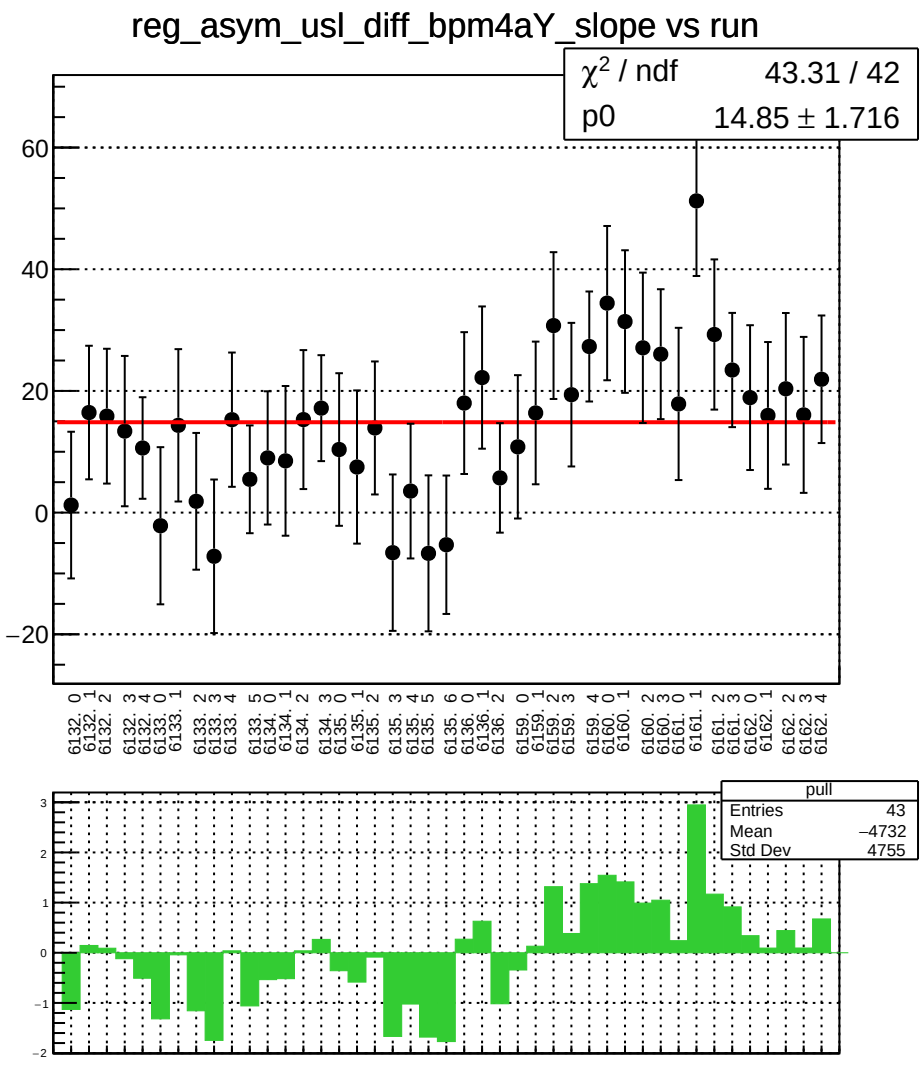

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 7.164 / 42
p0 50.86 ± 0.5645
pull
Entries 43
Mean 26.94
Std Dev 10.48

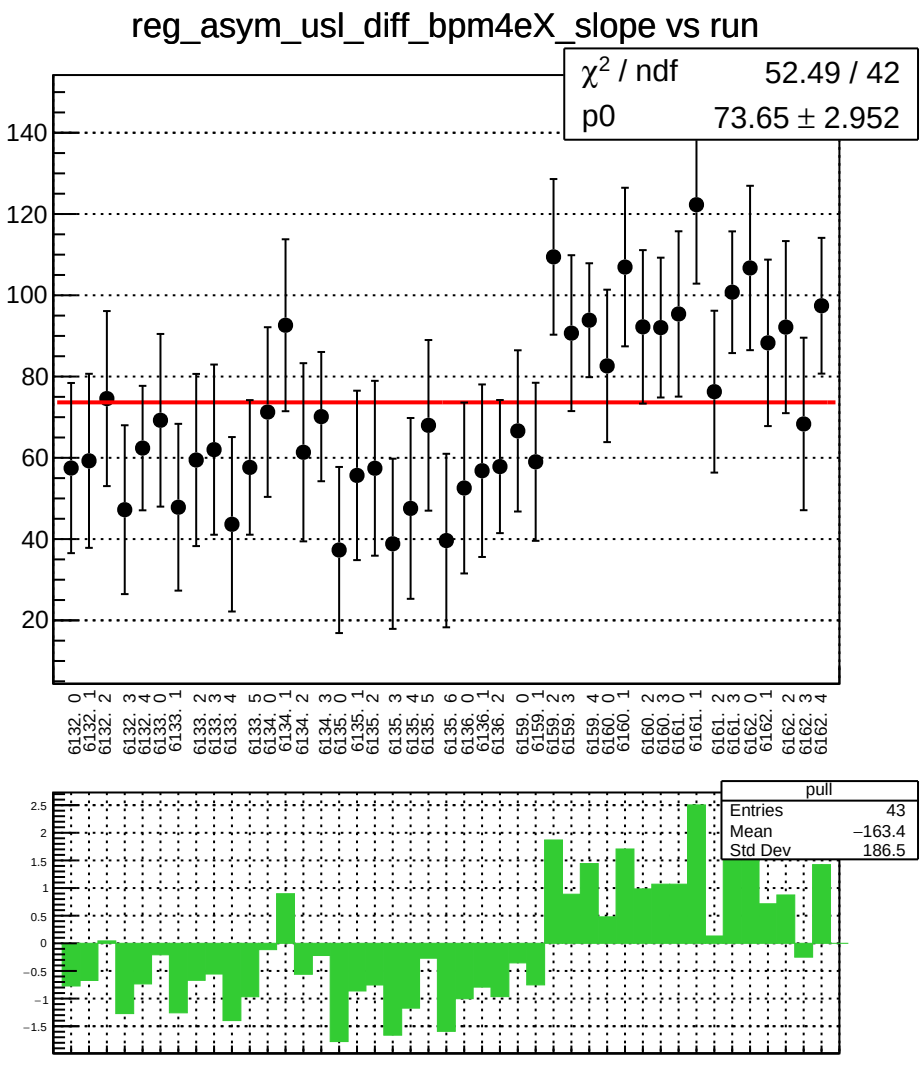

pull1D
Entries 43
Mean −0.03869
Std Dev 0.4063

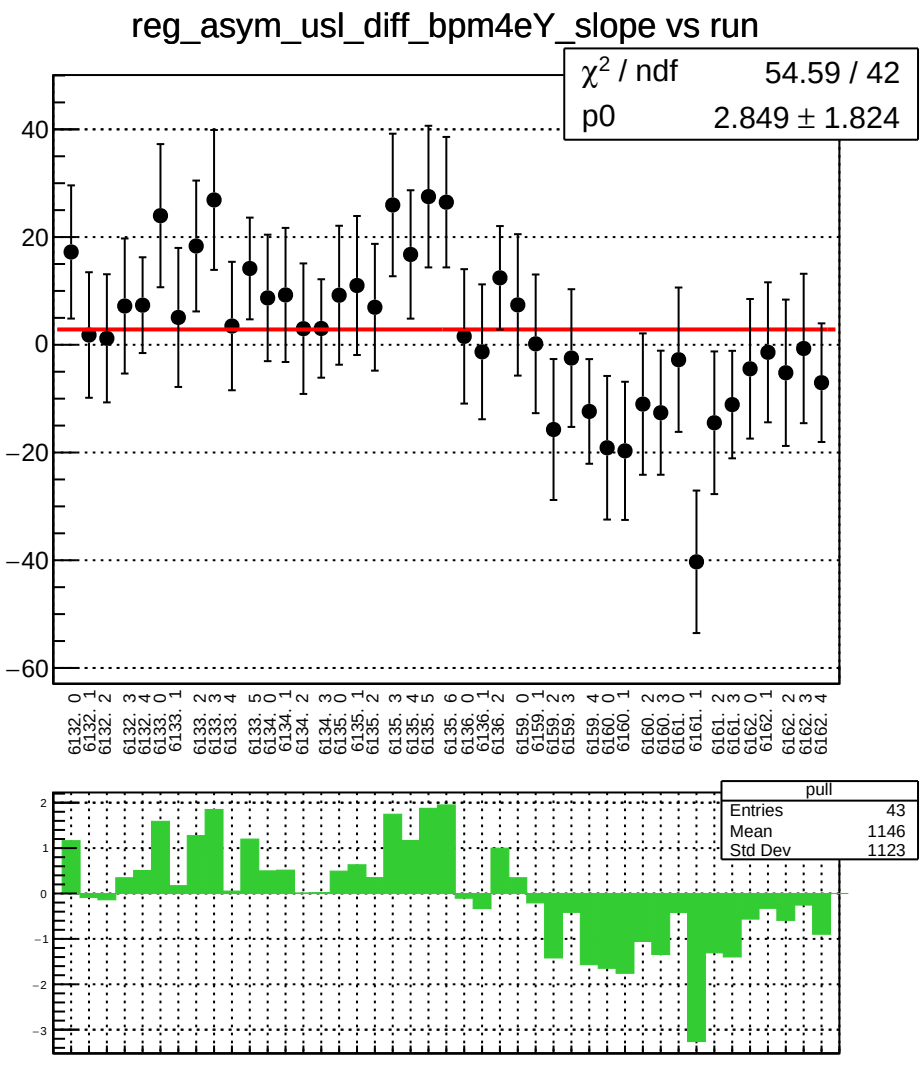

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 14.1 / 42
p0 −0.7867 ± 0.0419
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 48.97
Std Dev 22.59
1
0.5
0
−0.5
−1

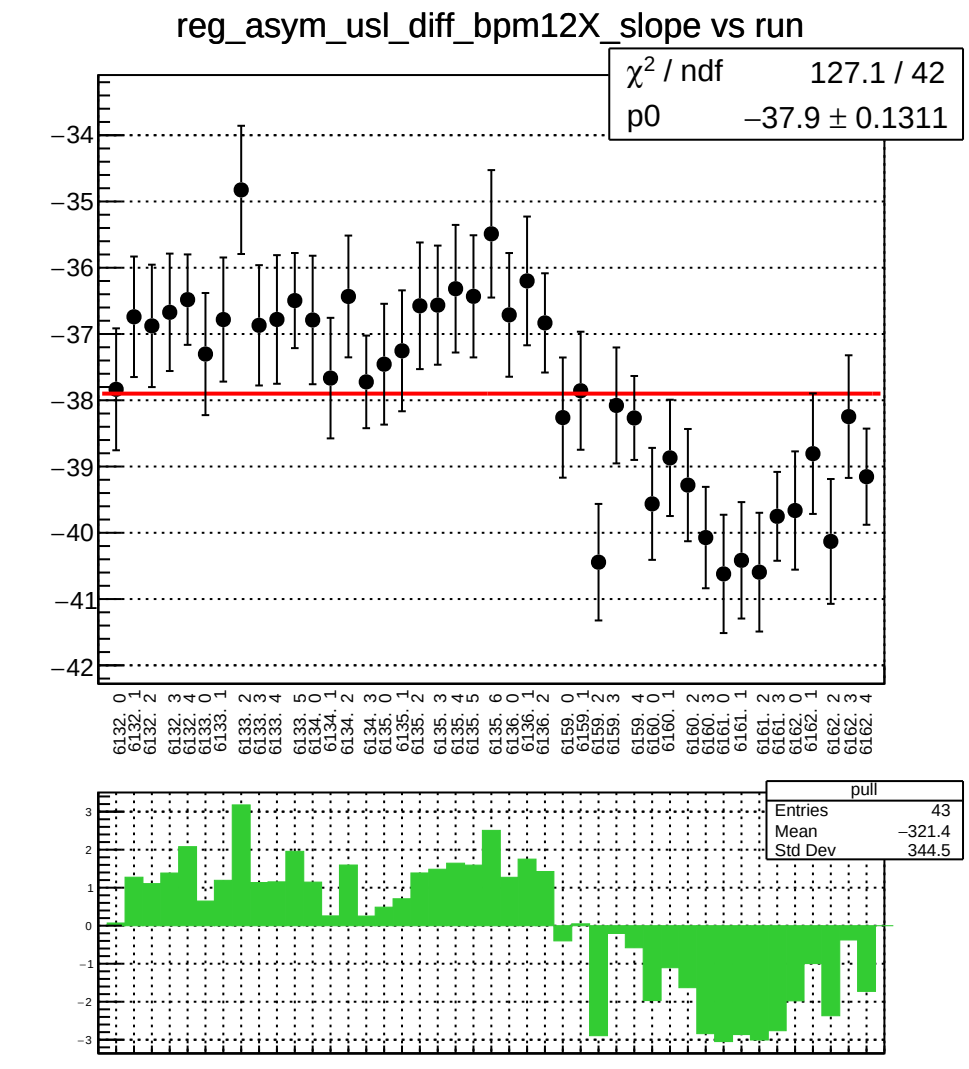

pull1D
Entries 43
Mean 0.0935
Std Dev 0.5649
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

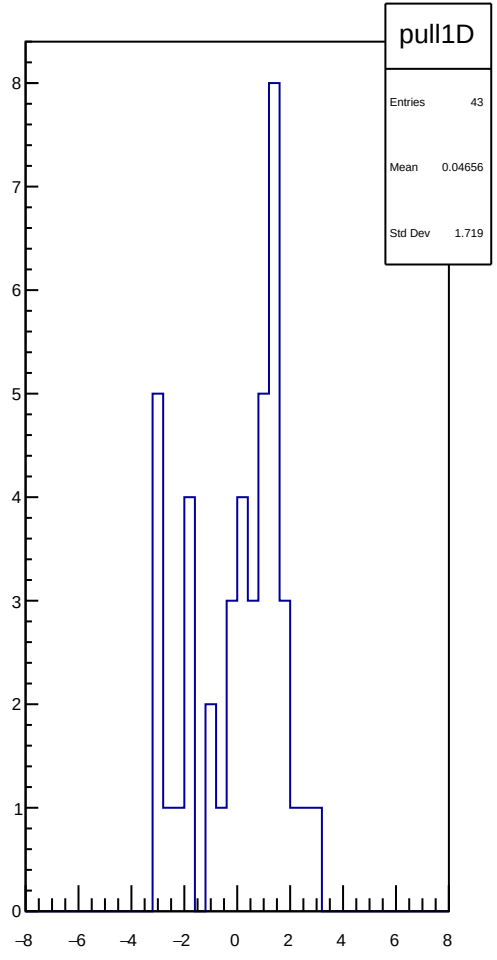

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 57.33 / 42
p0 −104.9 ± 2.534
−60
−80
−100
−120
−140
−160
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −161.5
Std Dev 184.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.05247
Std Dev 1.153
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

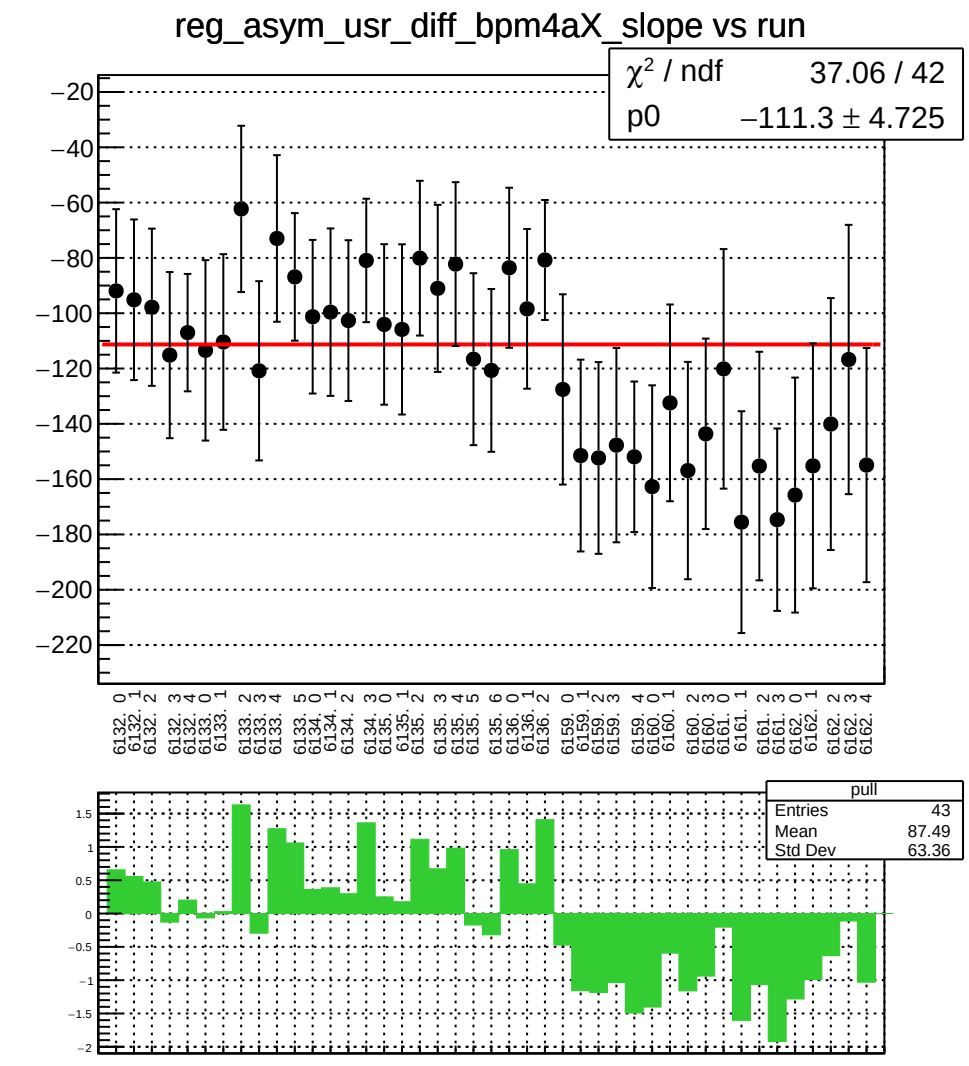

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 43.31 / 42
p0 14.85 ± 1.716
60
40
20
0
−20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −4732
Std Dev 4755
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.001482
Std Dev 1.004
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

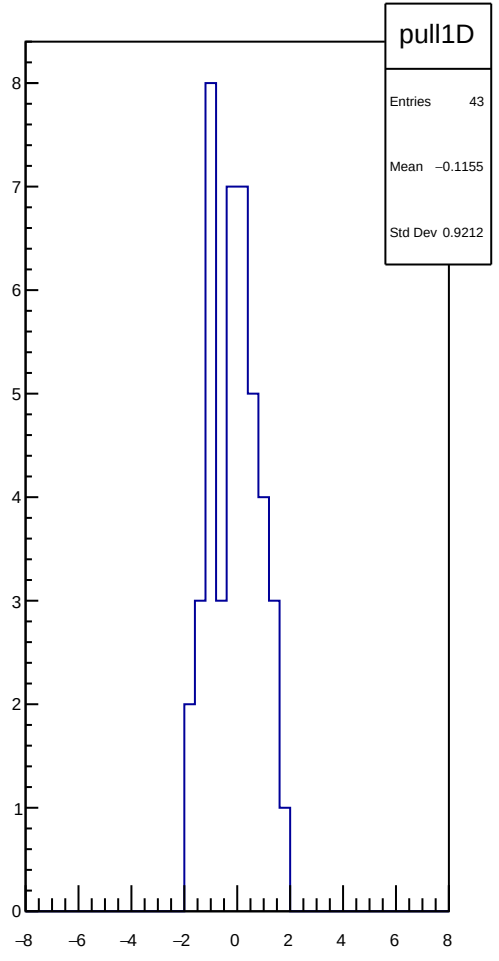

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 52.49 / 42
p0 73.65 ± 2.952
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −163.4
Std Dev 186.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.04785
Std Dev 1.104
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

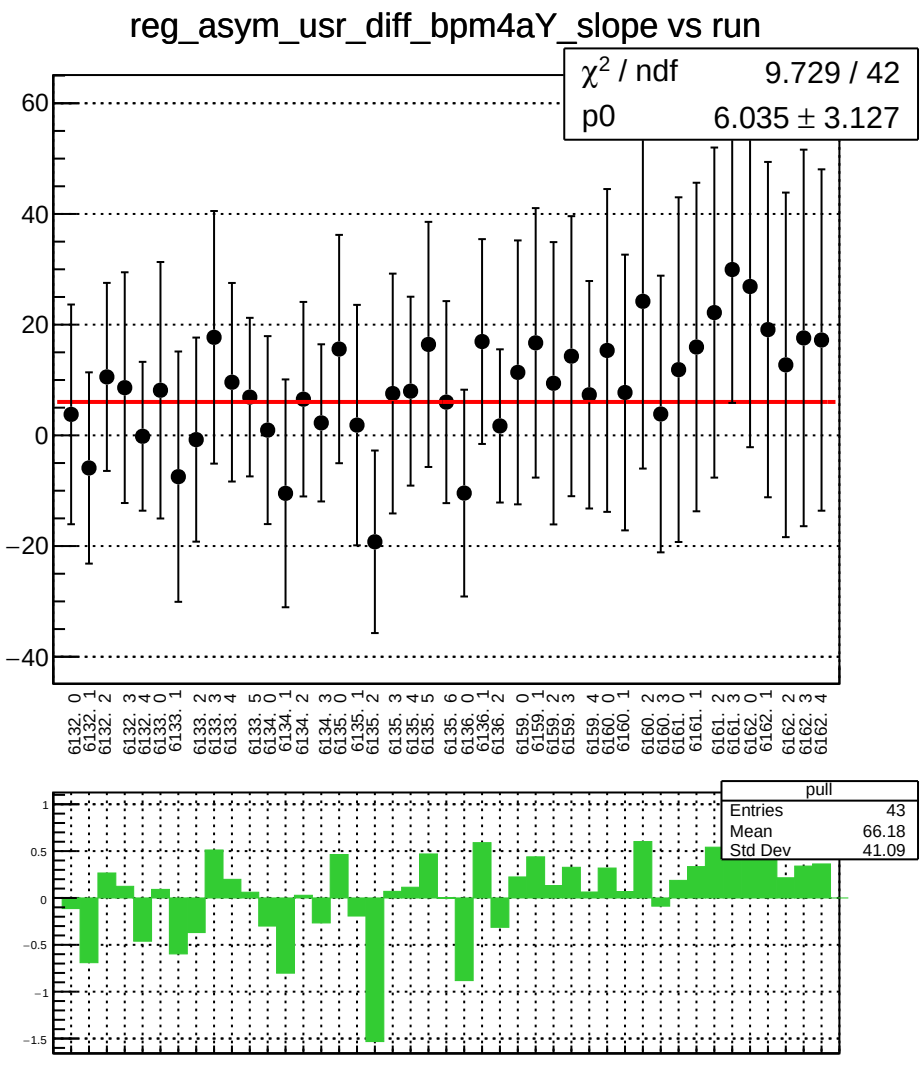

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 54.59 / 42
p0 2.849 ± 1.824
40
20
0
−20
−40
−60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 1146
Std Dev 1123
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.007665
Std Dev 1.127
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

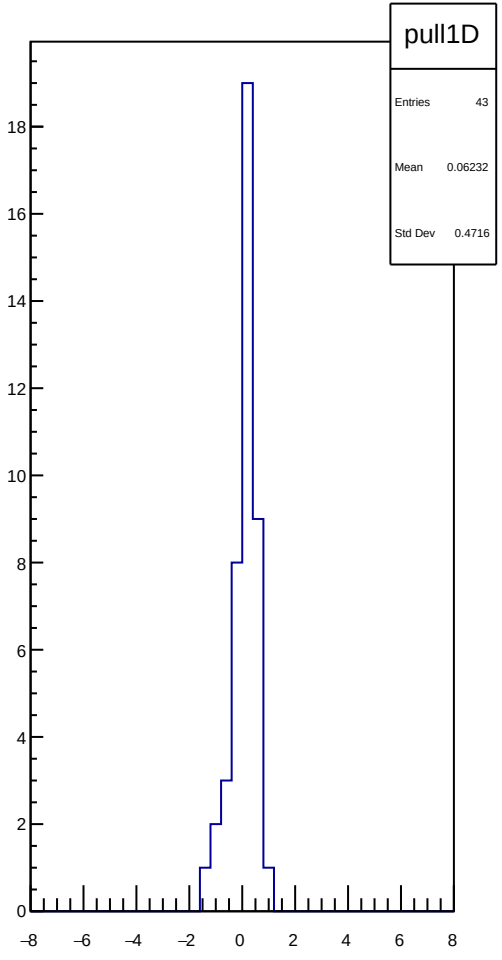

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 127.1 / 42
p0 −37.9 ± 0.1311
pull
Entries 43
Mean −321.4
Std Dev 344.5

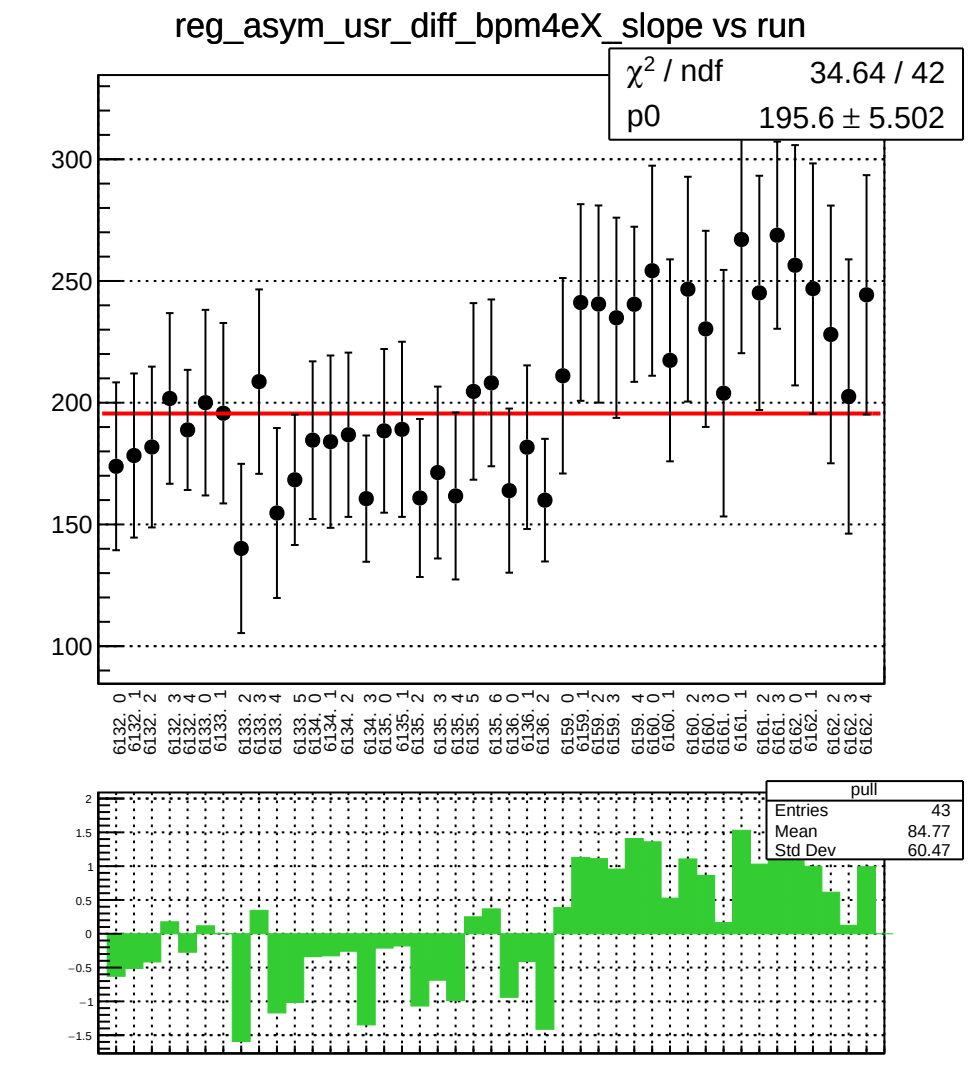

pull1D
Entries 43
Mean 0.04656
Std Dev 1.719

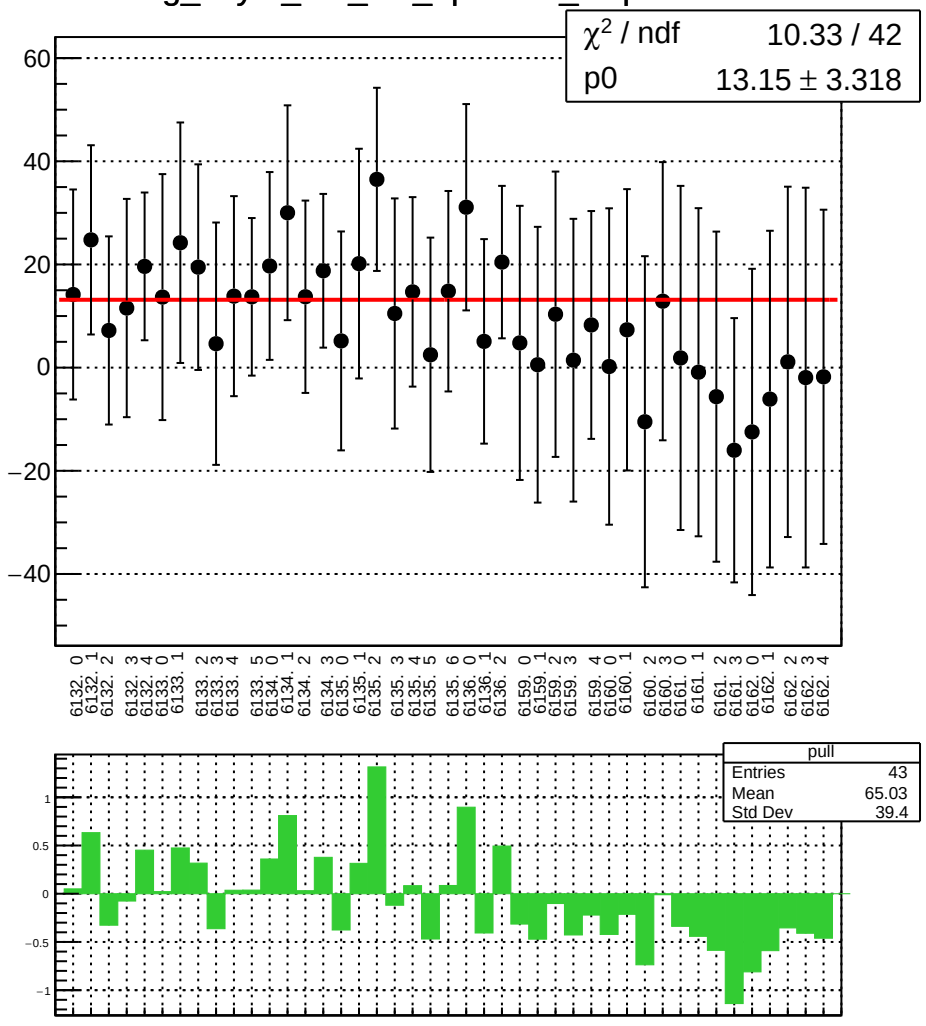

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 37.06 / 42
p0 −111.3 ± 4.725
pull
Entries 43
Mean 87.49
Std Dev 63.36

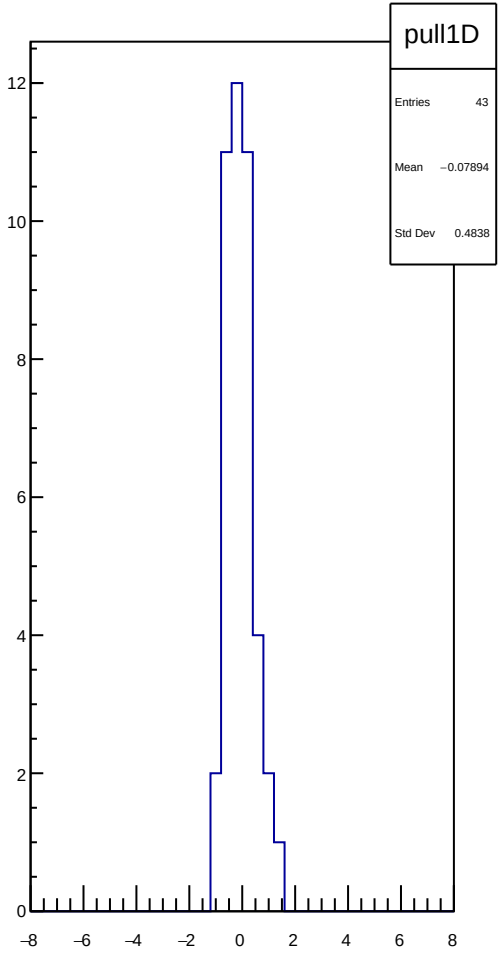

pull1D
Entries 43
Mean −0.1155
Std Dev 0.9212

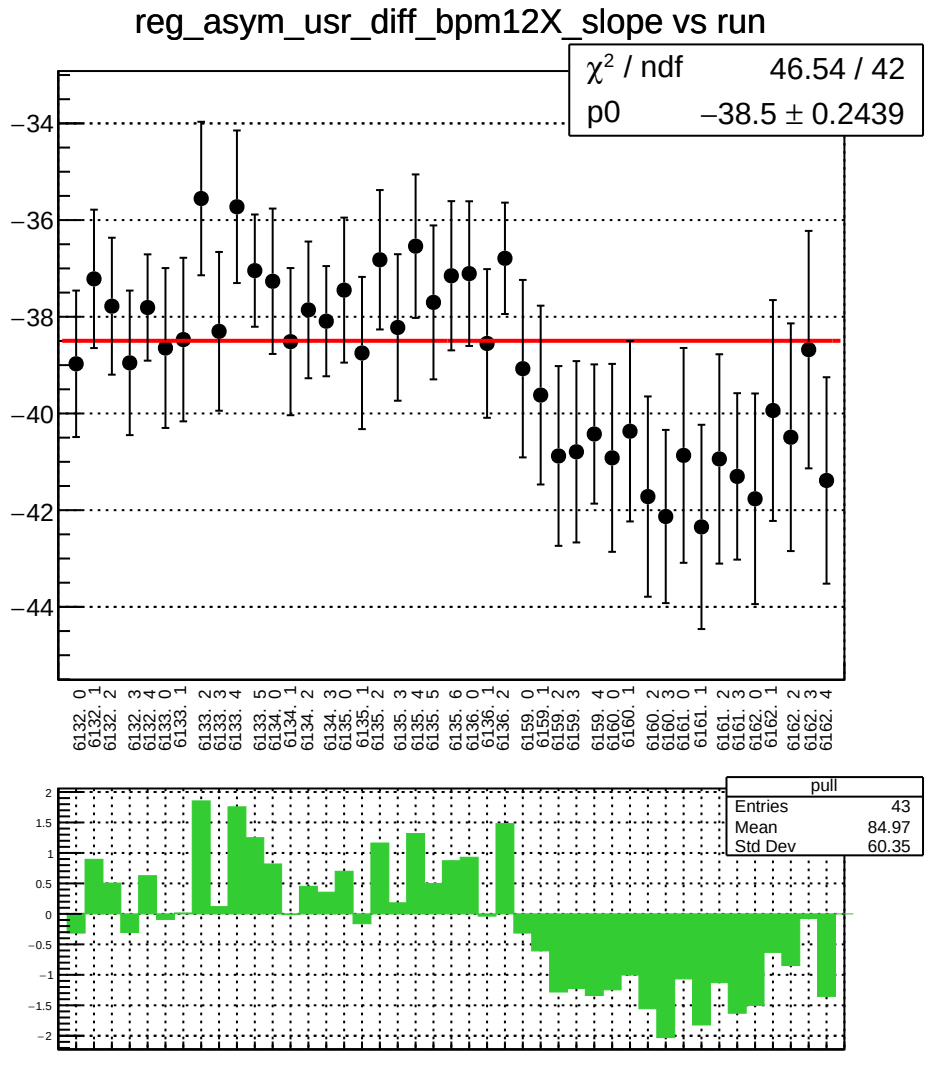

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 9.729 / 42
p0 6.035 ± 3.127
pull
Entries 43
Mean 66.18
Std Dev 41.09

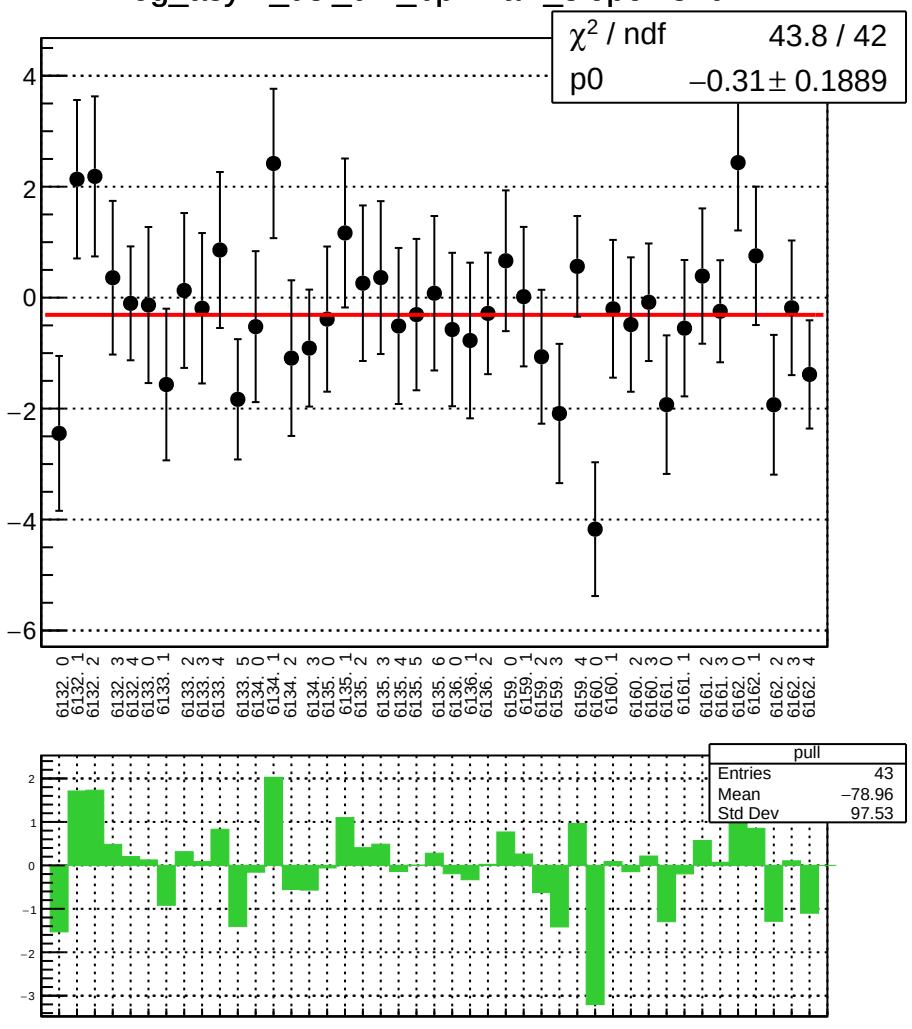

pull1D
Entries 43
Mean 0.06232
Std Dev 0.4716

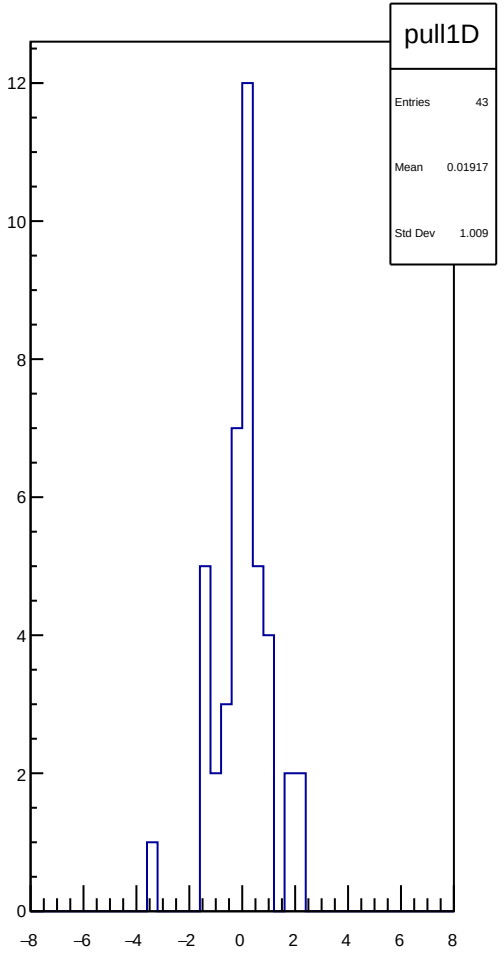

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 34.64 / 42
p0 195.6 ± 5.502
300
250
200
150
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 84.77
Std Dev 60.47
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.1144
Std Dev 0.8902
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

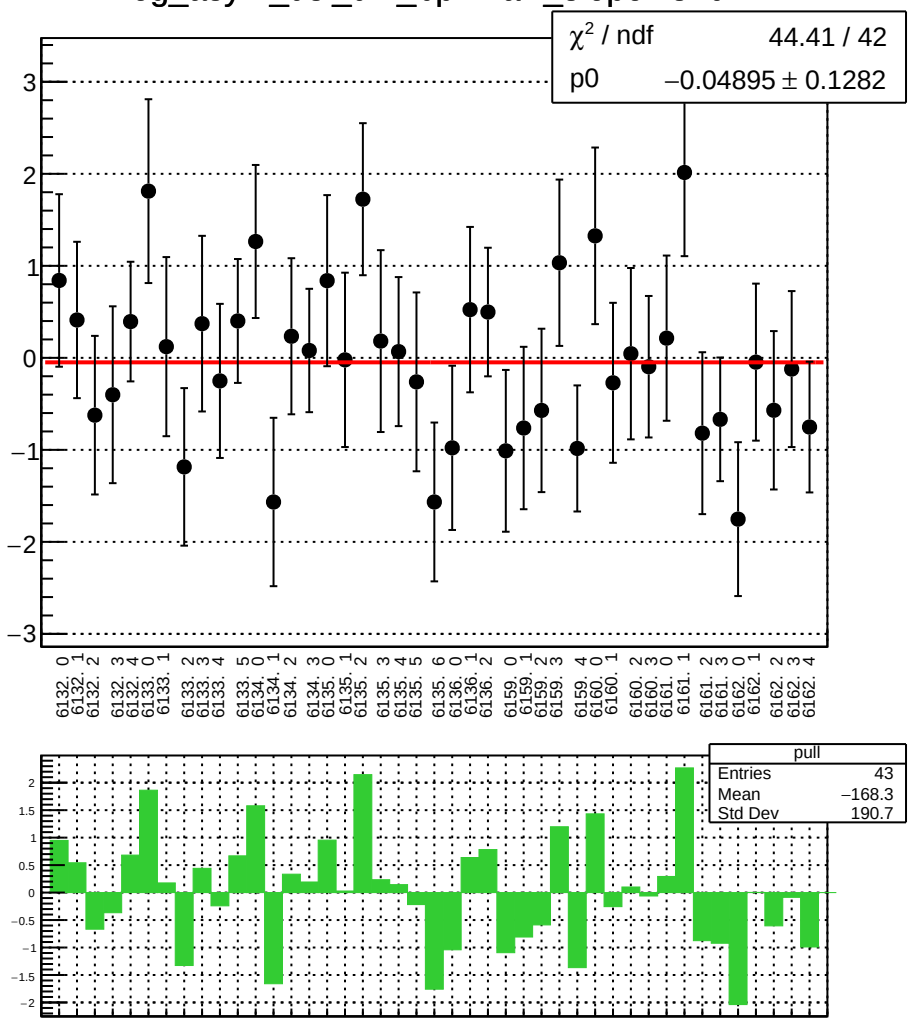

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 10.33 / 42
p0 13.15 ± 3.318
pull
Entries 43
Mean 65.03
Std Dev 39.4

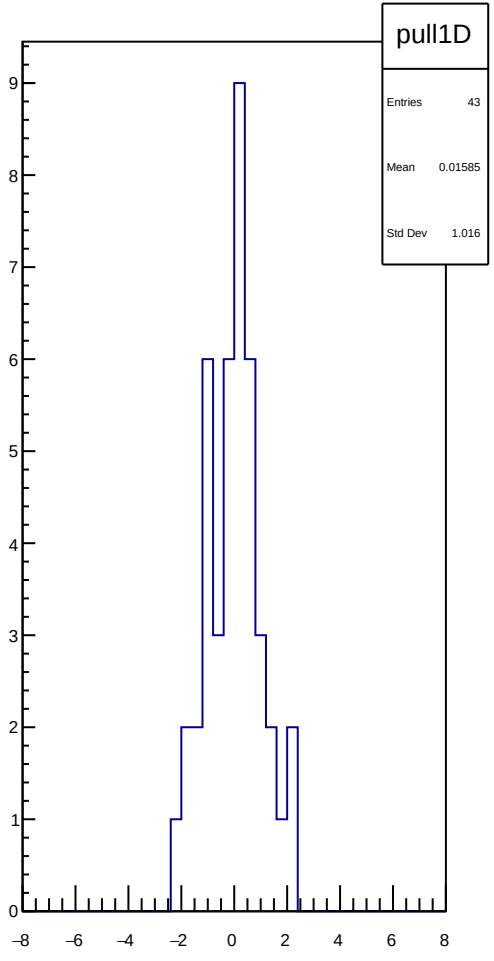

pull1D
Entries 43
Mean −0.07894
Std Dev 0.4838

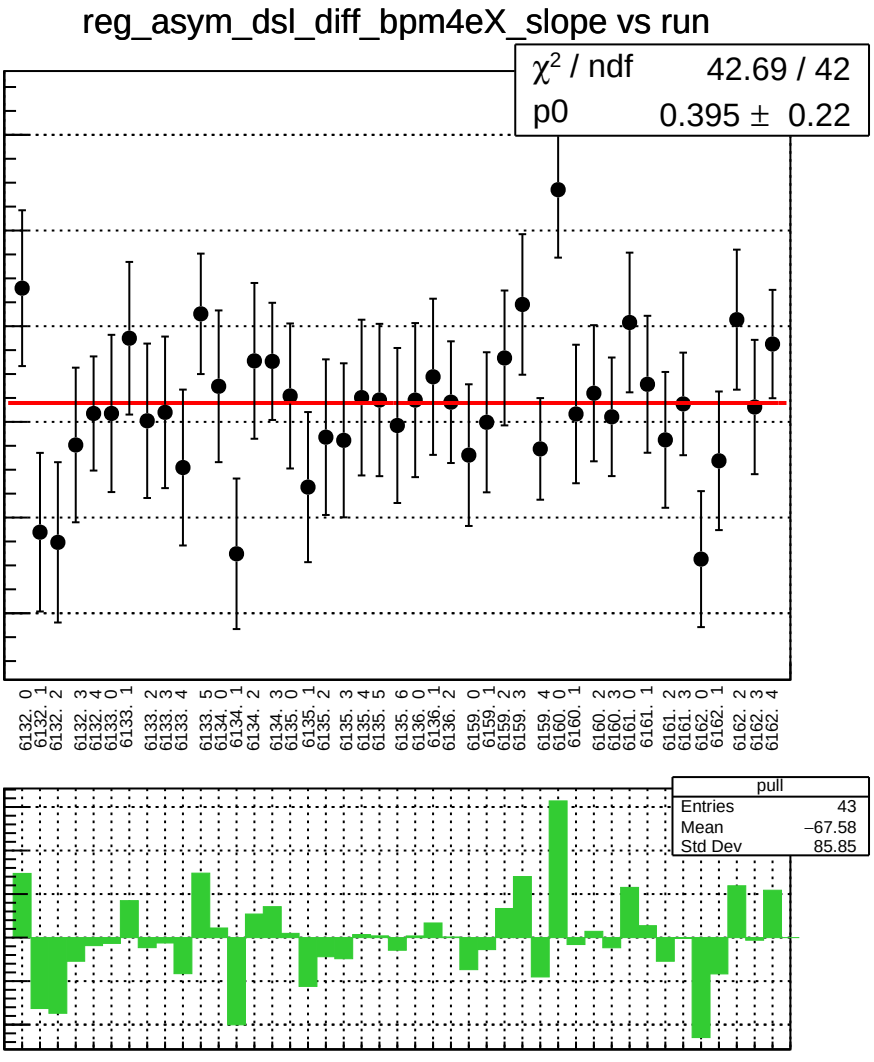

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 46.54 / 42
p0 −38.5 ± 0.2439
−34
−36
−38
−40
−42
−44
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 84.97
Std Dev 60.35
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.1345
Std Dev 1.032
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

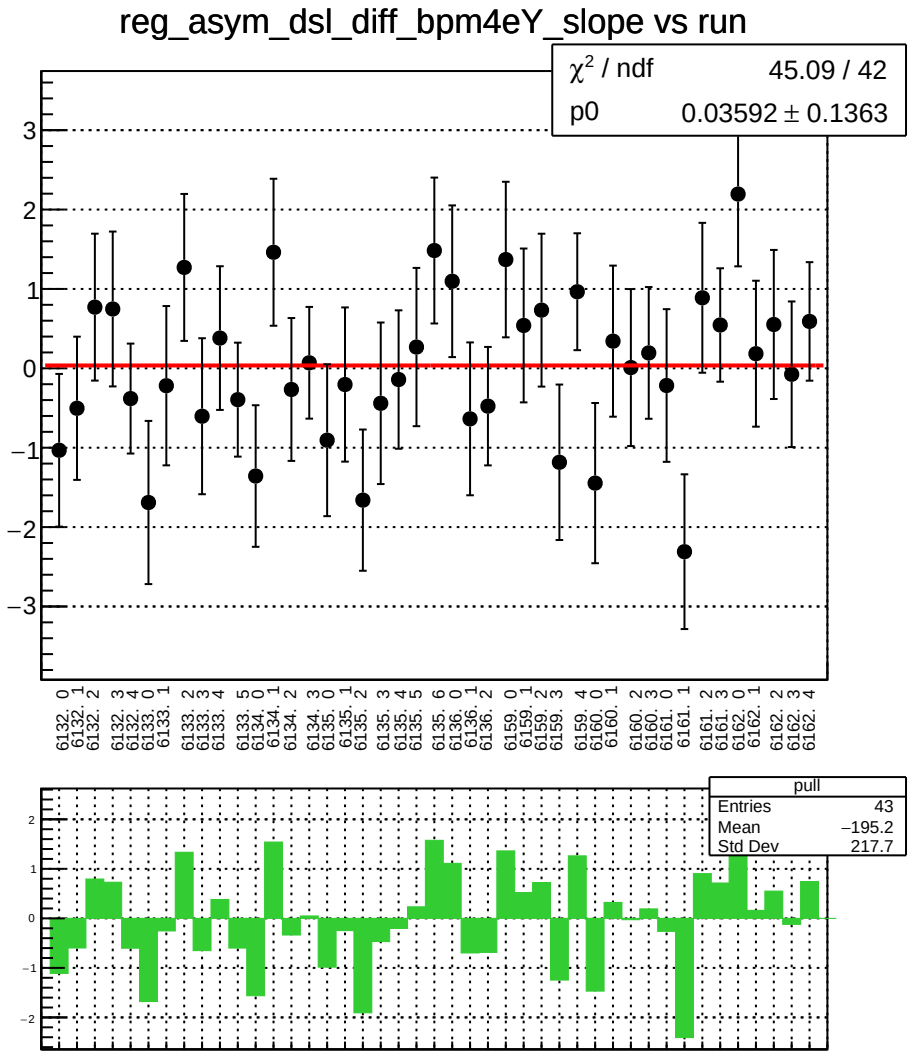

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 43.8 / 42
p0 −0.31 ± 0.1889
pull
Entries 43
Mean −78.96
Std Dev 97.53

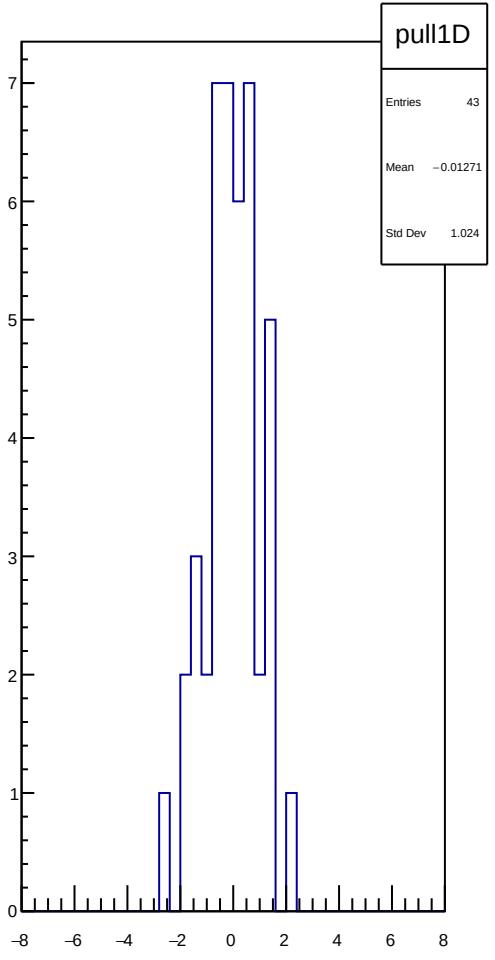

pull1D
Entries 43
Mean 0.01917
Std Dev 1.009

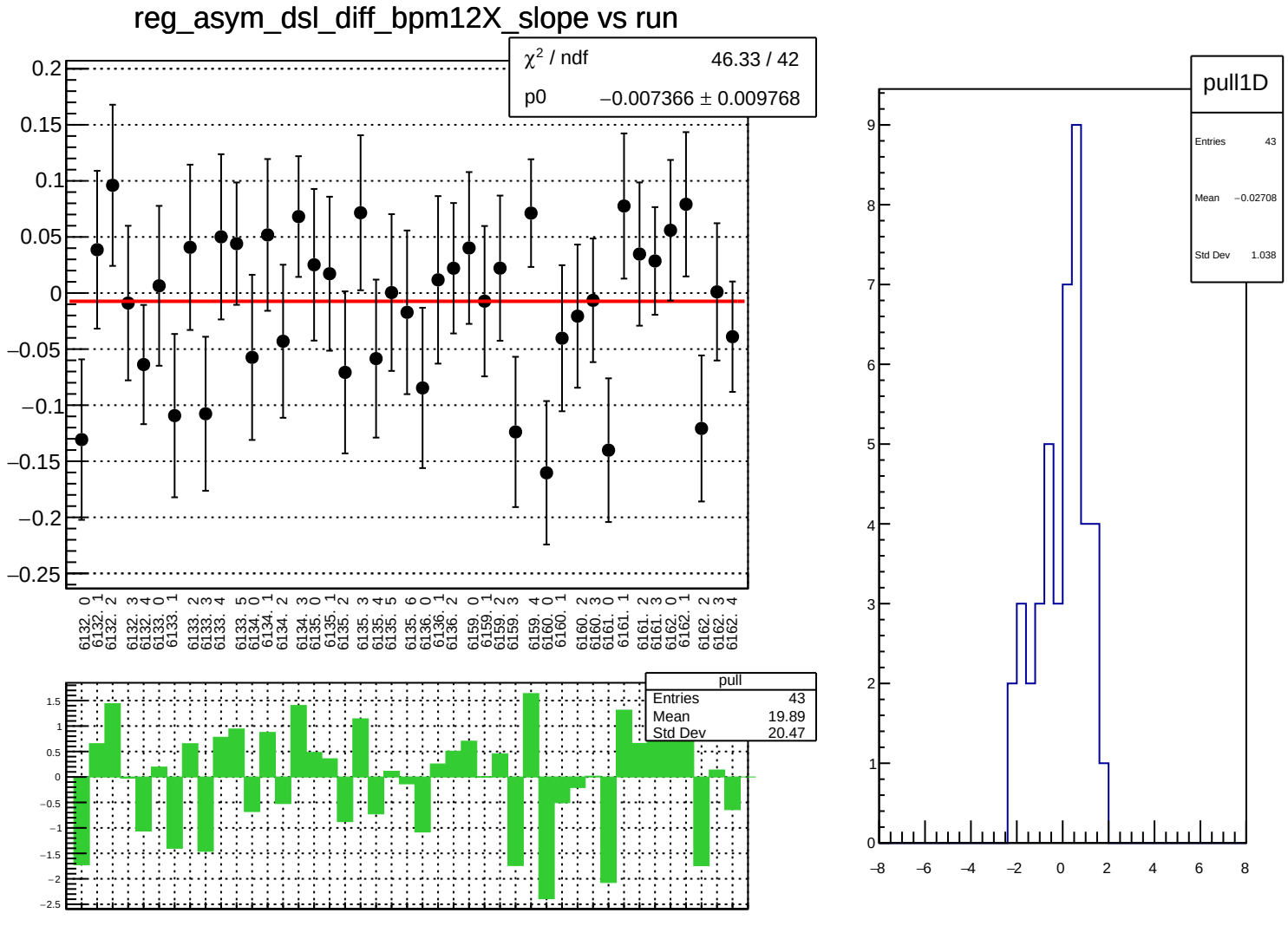

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 44.41 / 42
p0 −0.04895 ± 0.1282
pull
Entries 43
Mean −168.3
Std Dev 190.7

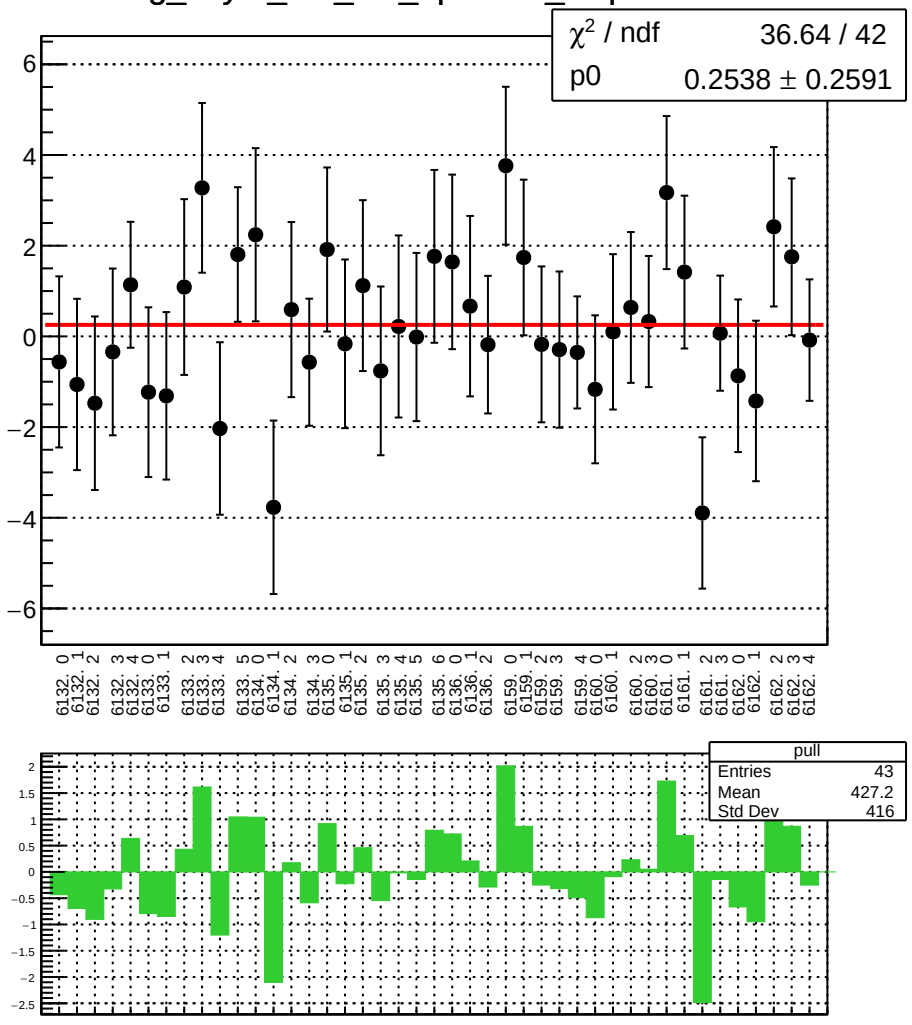

pull1D
Entries 43
Mean 0.01585
Std Dev 1.016

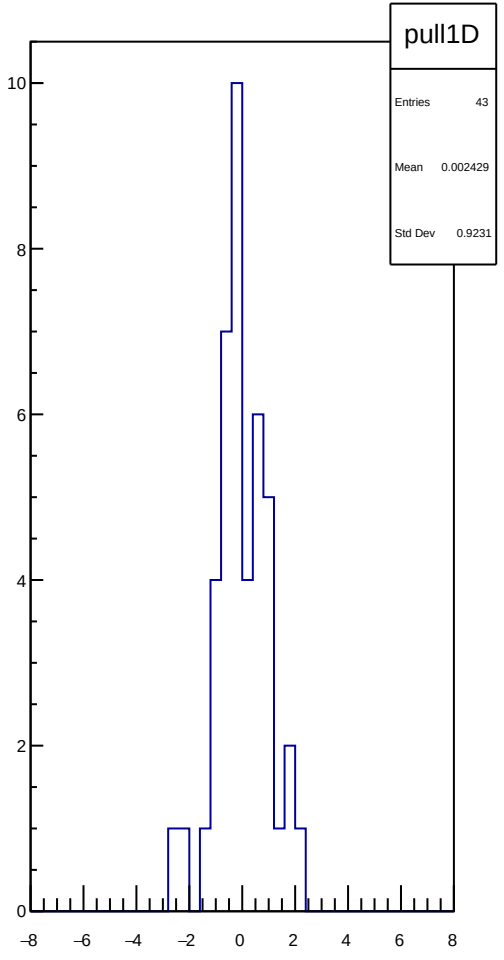

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 42.69 / 42
p0 0.395 ± 0.22
pull
Entries 43
Mean −67.58
Std Dev 85.85
pull1D
Entries 43
Mean −0.02065
Std Dev 0.9962

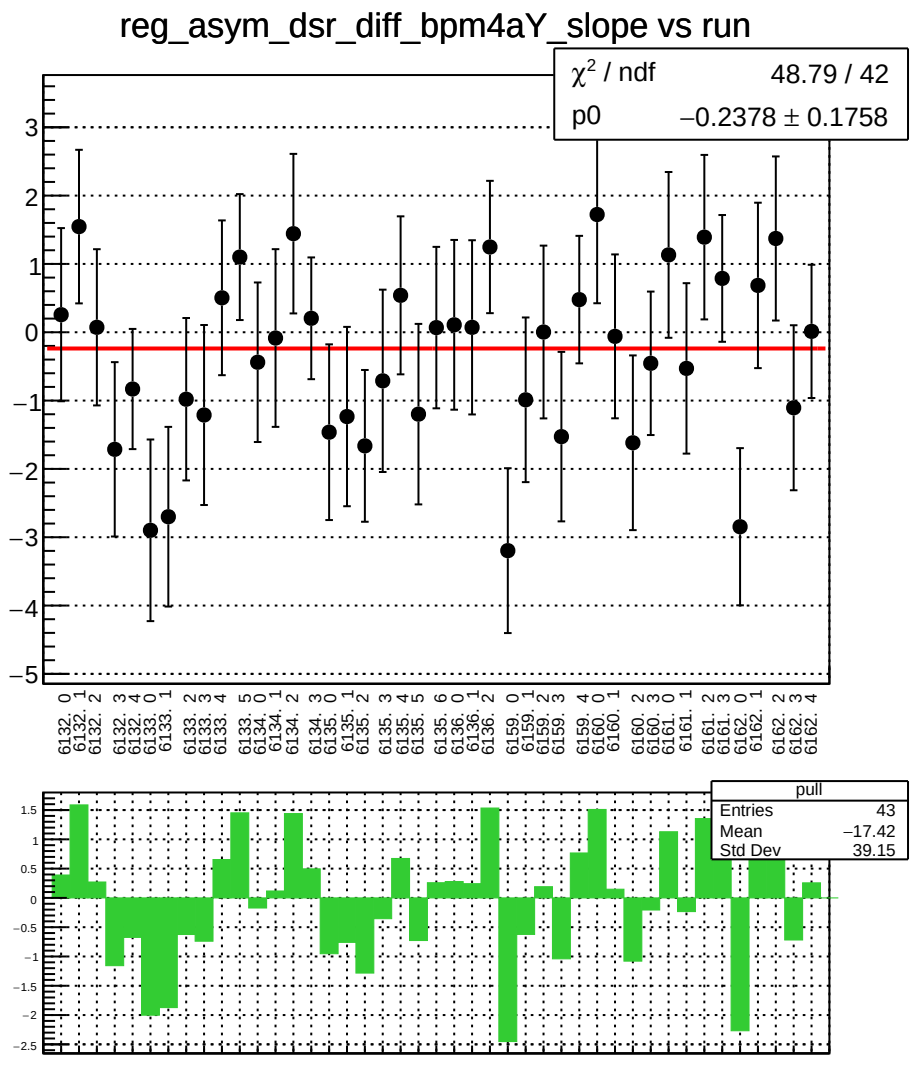

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 45.09 / 42
p0 0.03592 ± 0.1363
pull
Entries 43
Mean −195.2
Std Dev 217.7

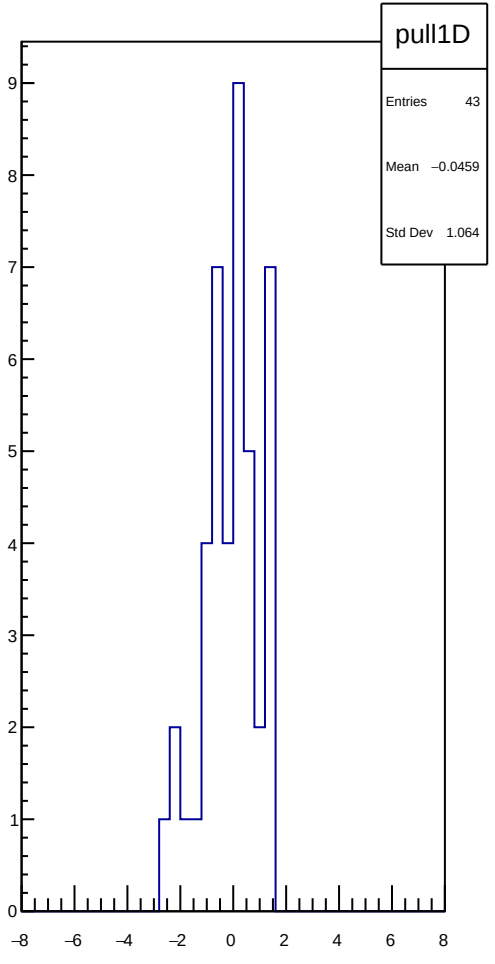

pull1D
Entries 43
Mean −0.01271
Std Dev 1.024

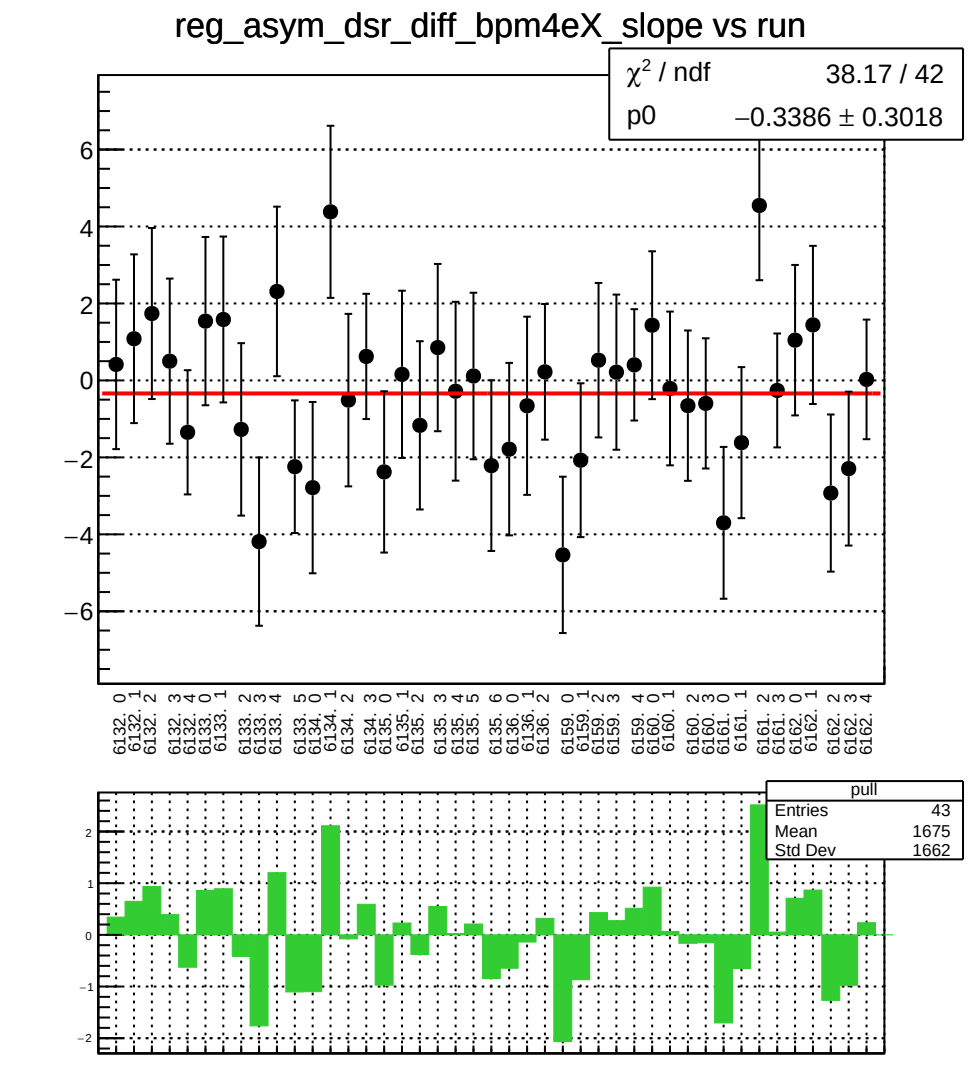

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 46.33 / 42
p0 −0.007366 ± 0.009768
pull
Entries 43
Mean 19.89
Std Dev 20.47
pull1D
Entries 43
Mean −0.02708
Std Dev 1.038

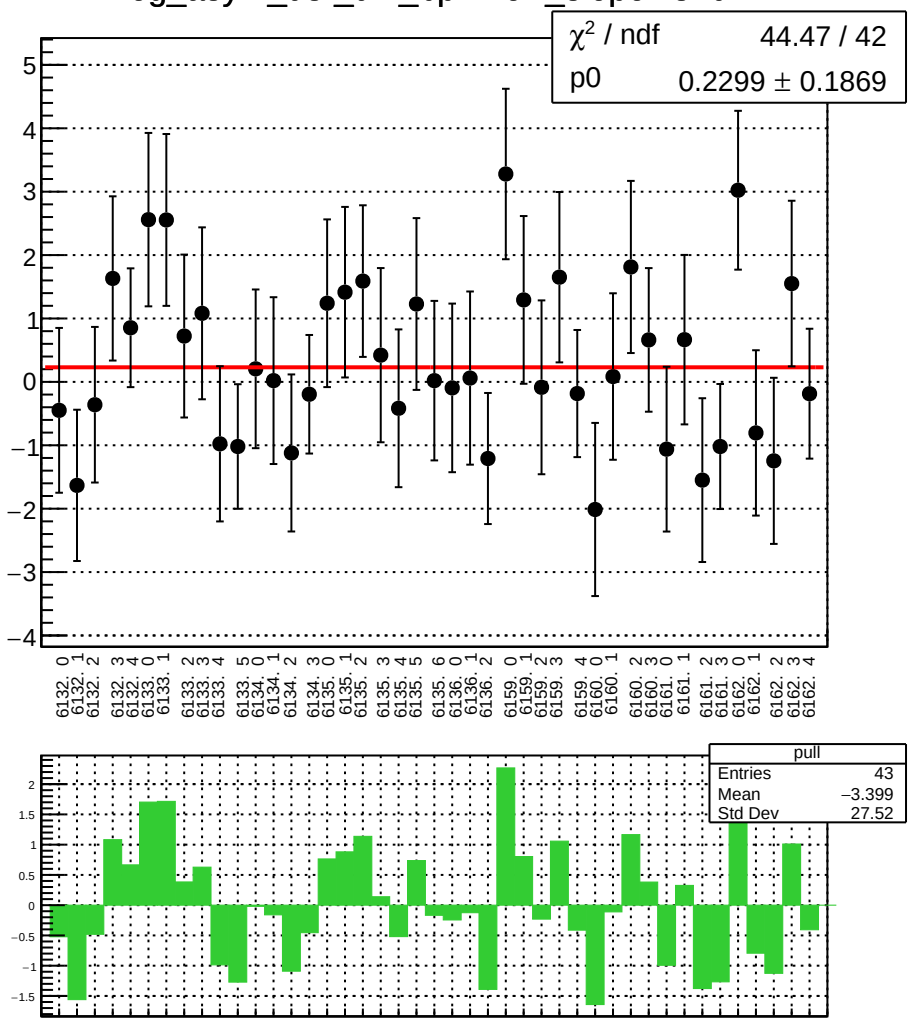

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 36.64 / 42
p0 0.2538 ± 0.2591
pull
Entries 43
Mean 427.2
Std Dev 416

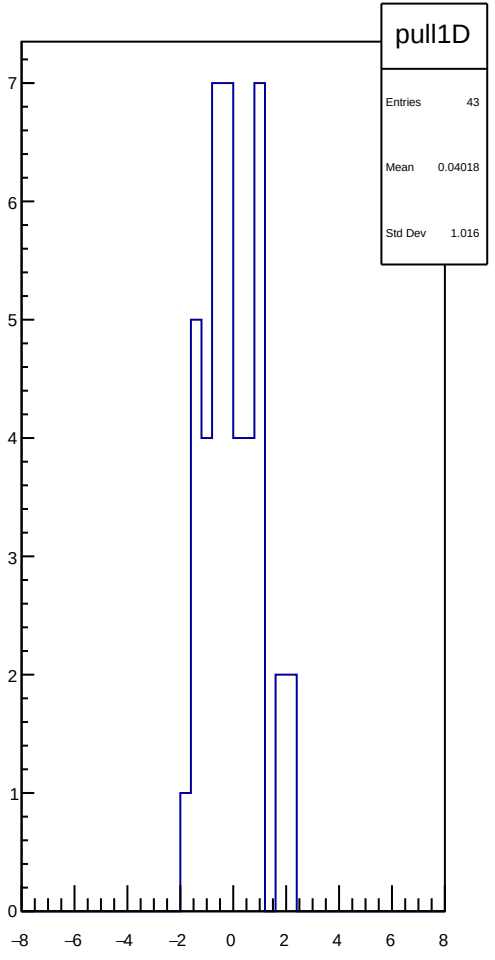

pull1D
Entries 43
Mean 0.002429
Std Dev 0.9231

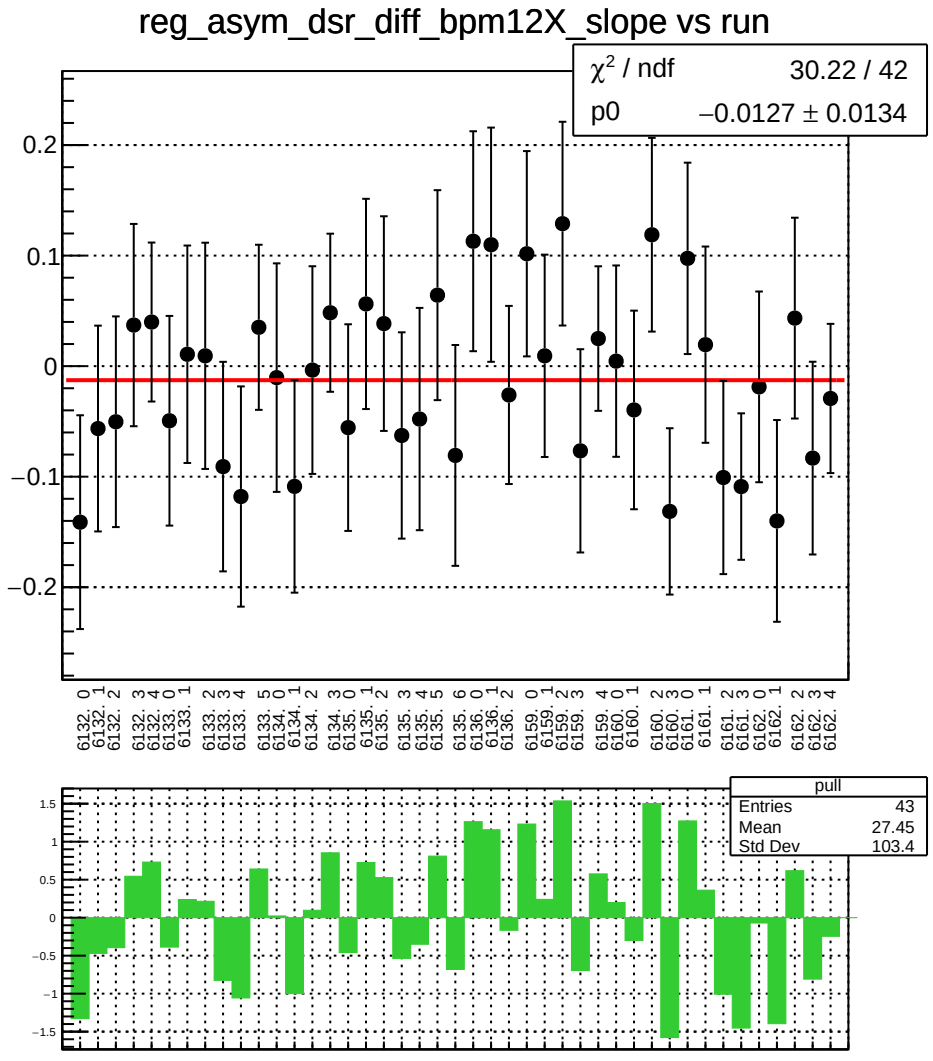

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 48.79 / 42
p0 −0.2378 ± 0.1758
pull
Entries 43
Mean −17.42
Std Dev 39.15

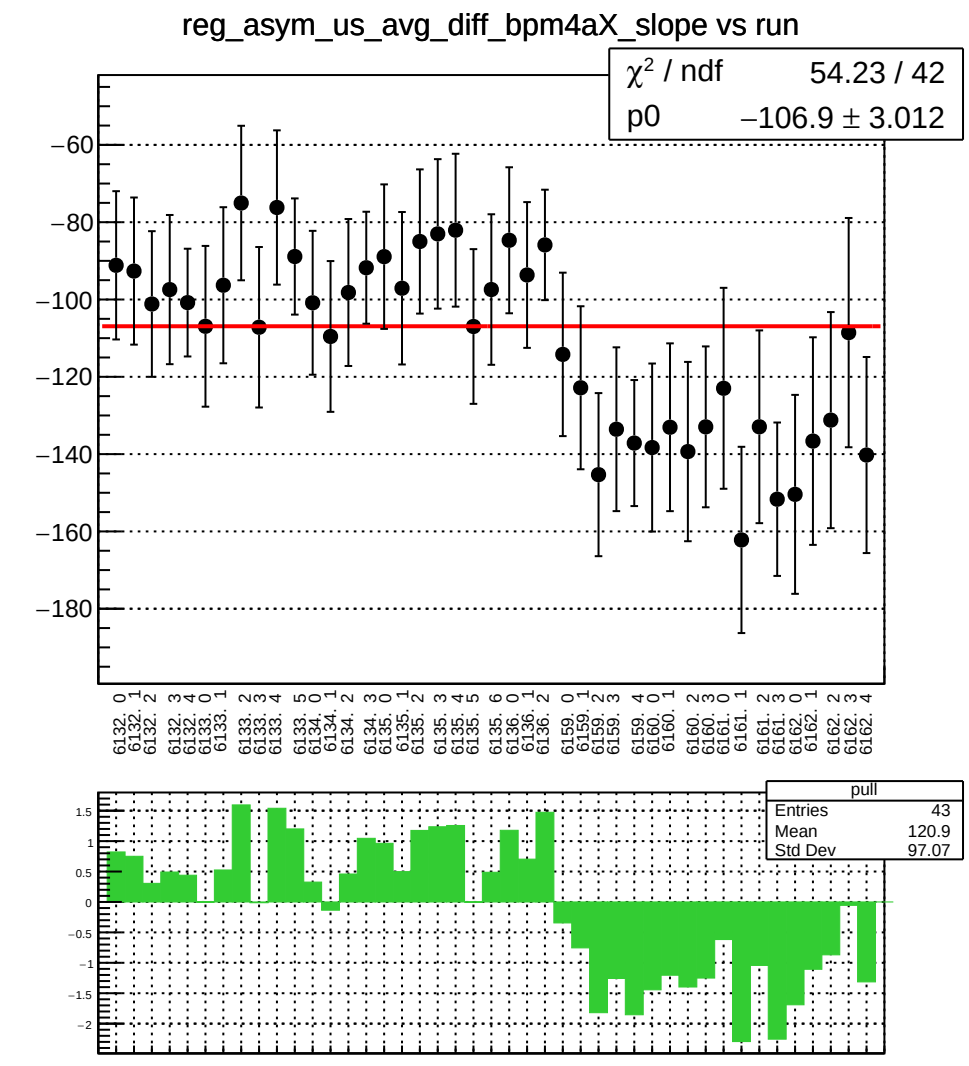

pull1D
Entries 43
Mean −0.0459
Std Dev 1.064

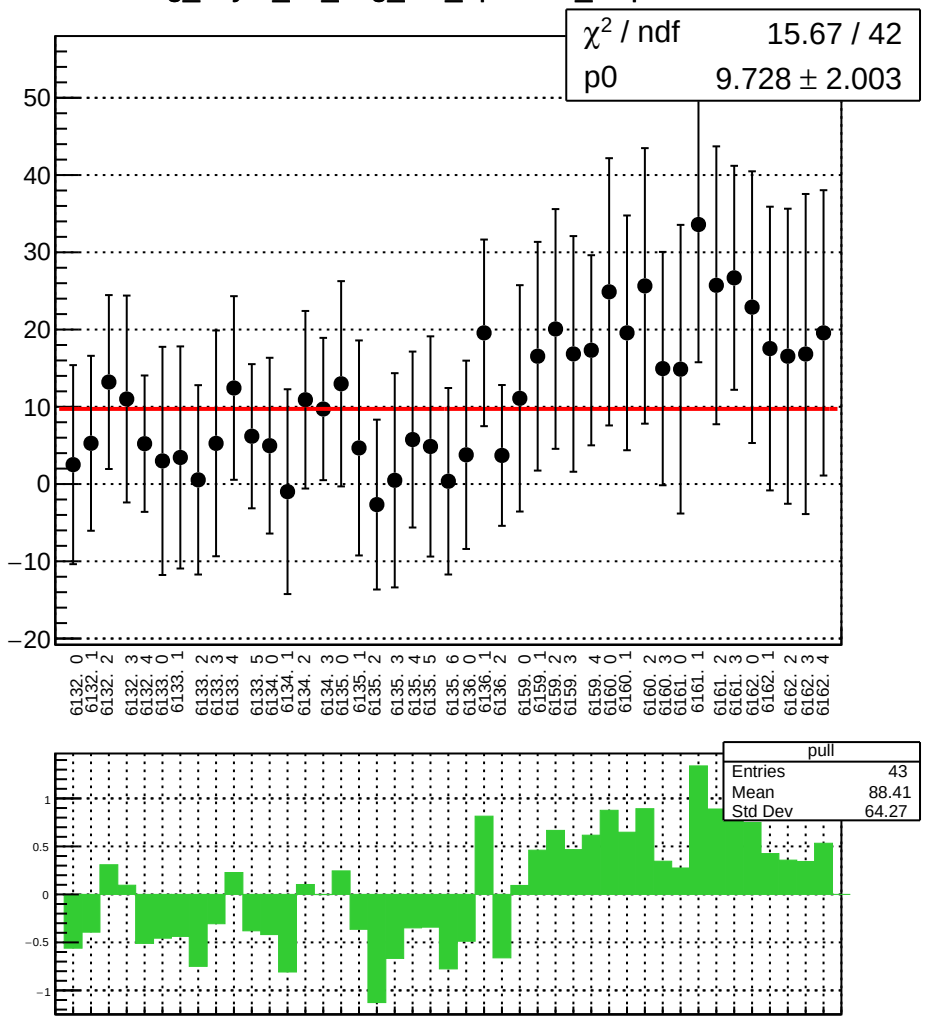

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 38.17 / 42
p0 −0.3386 ± 0.3018
6
4
2
0
−2
−4
−6
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 1675
Std Dev 1662
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0006275
Std Dev 0.9421
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

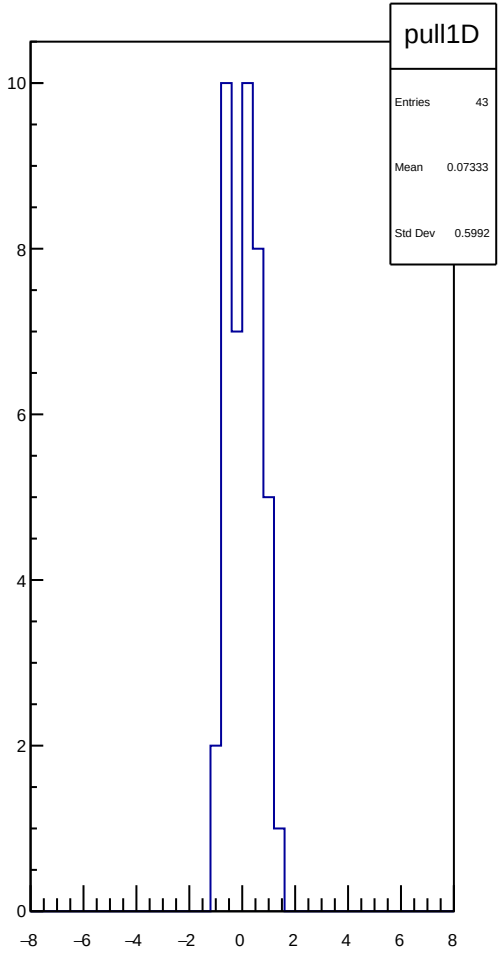

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 44.47 / 42
p0 0.2299 ± 0.1869
pull
Entries 43
Mean −3.399
Std Dev 27.52

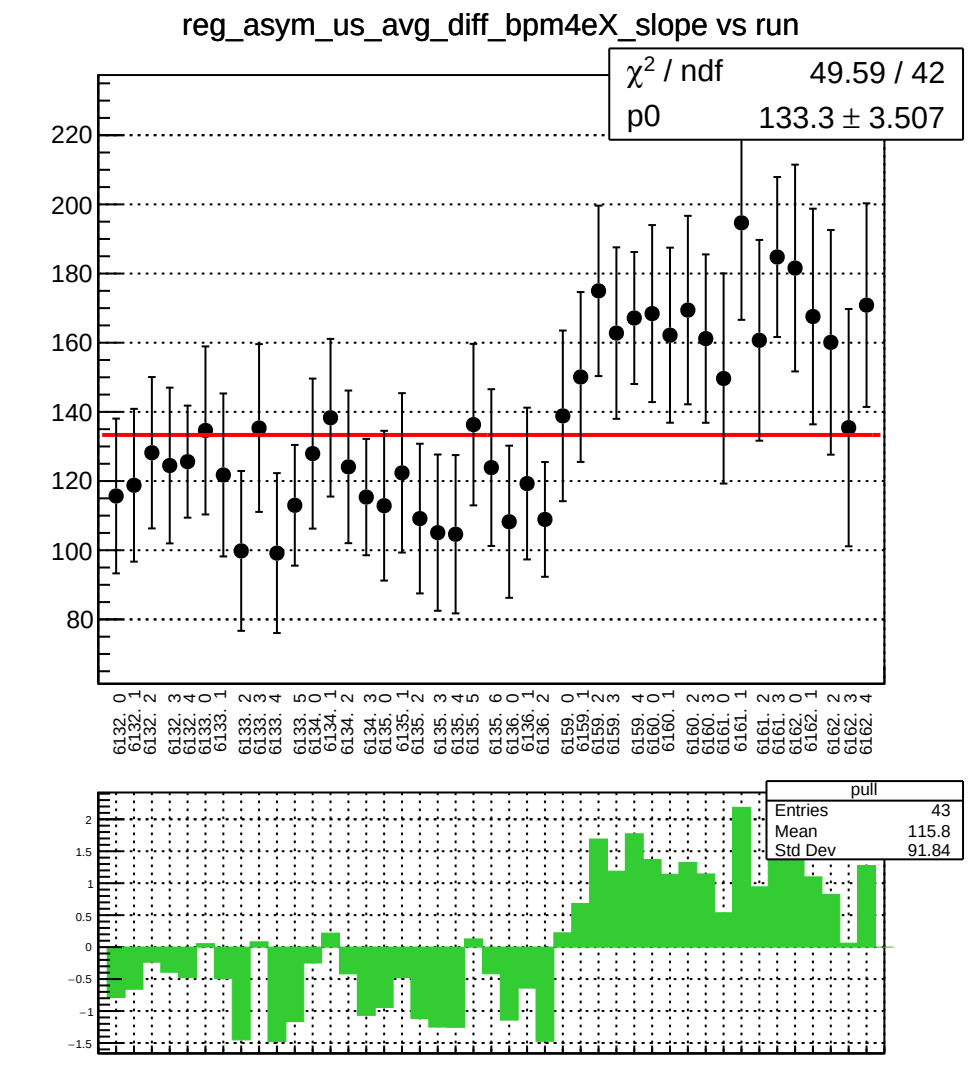

pull1D
Entries 43
Mean 0.04018
Std Dev 1.016

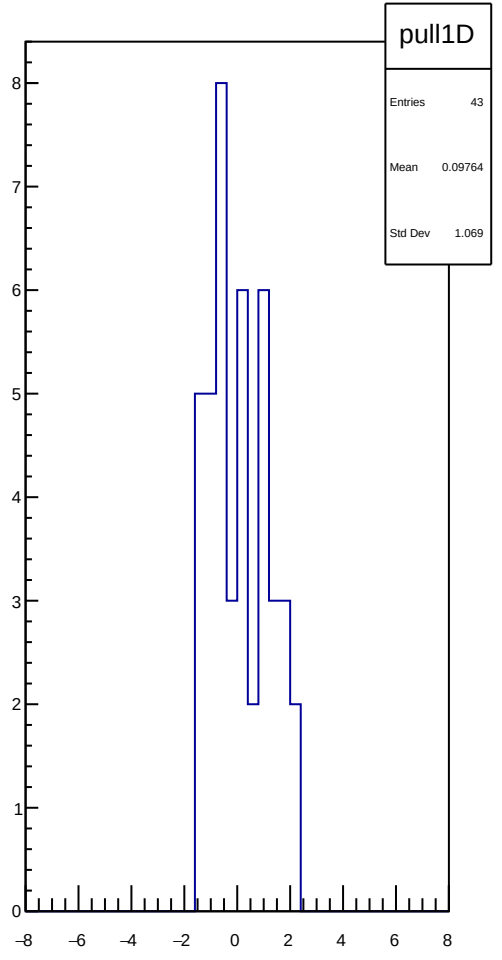

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 30.22 / 42
p0 −0.0127 ± 0.0134
0.2
0.1
0
−0.1
−0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 27.45
Std Dev 103.4
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.003789
Std Dev 0.8384
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

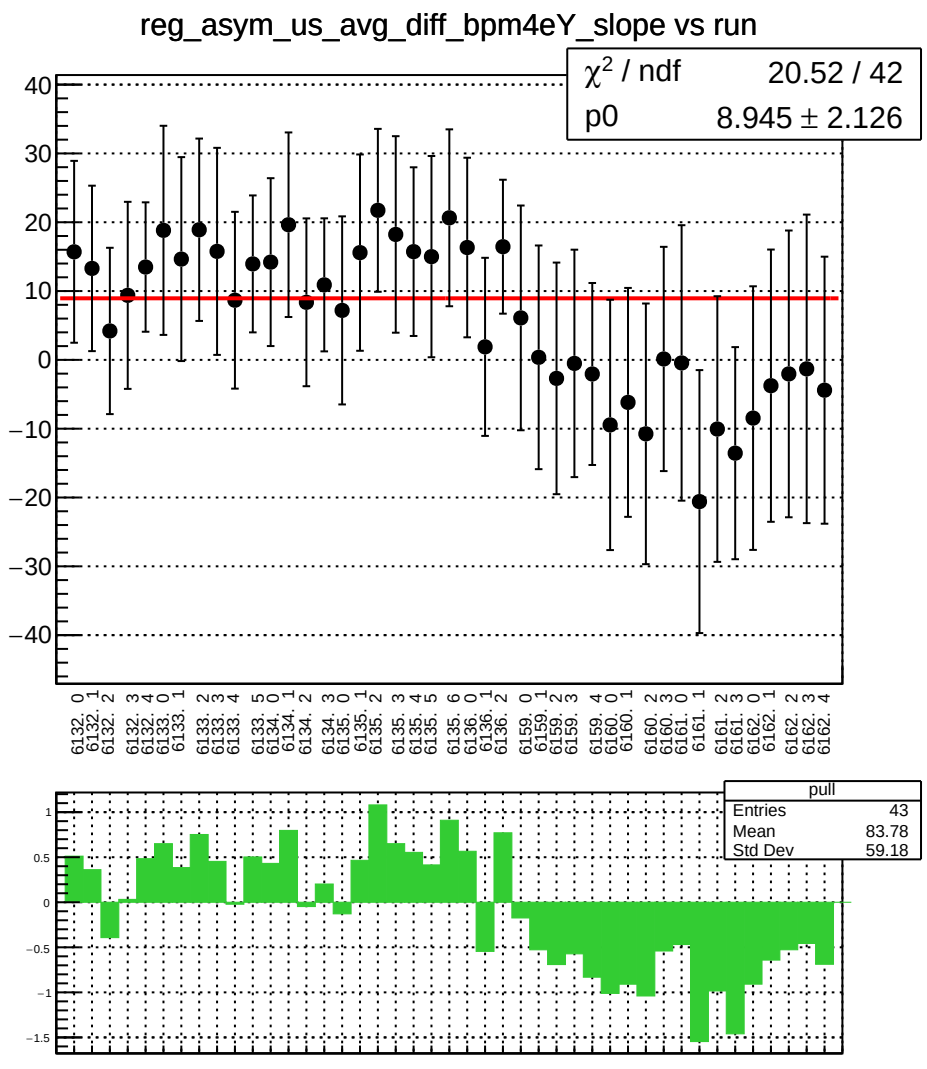

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 54.23 / 42
p0 −106.9 ± 3.012
−60
−80
−100
−120
−140
−160
−180
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 120.9
Std Dev 97.07
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.09879
Std Dev 1.119
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

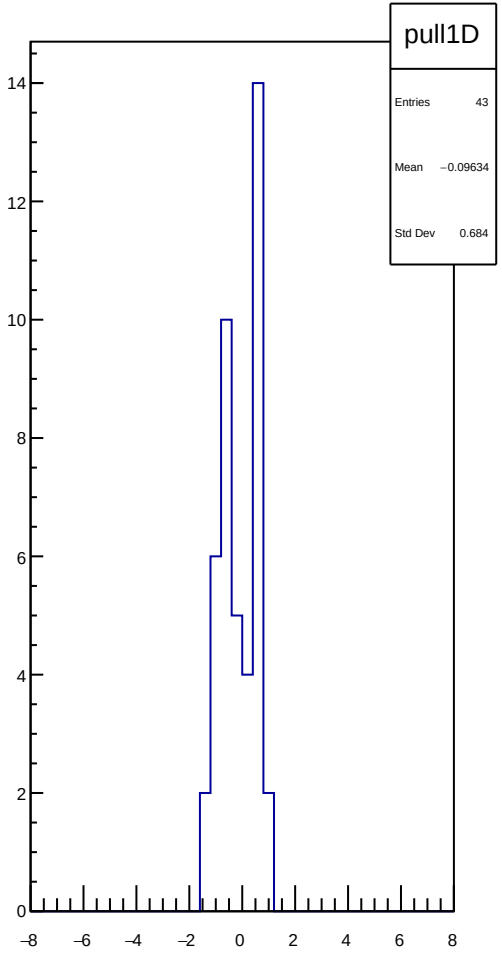

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.67 / 42
p0 9.728 ± 2.003
pull
Entries 43
Mean 88.41
Std Dev 64.27

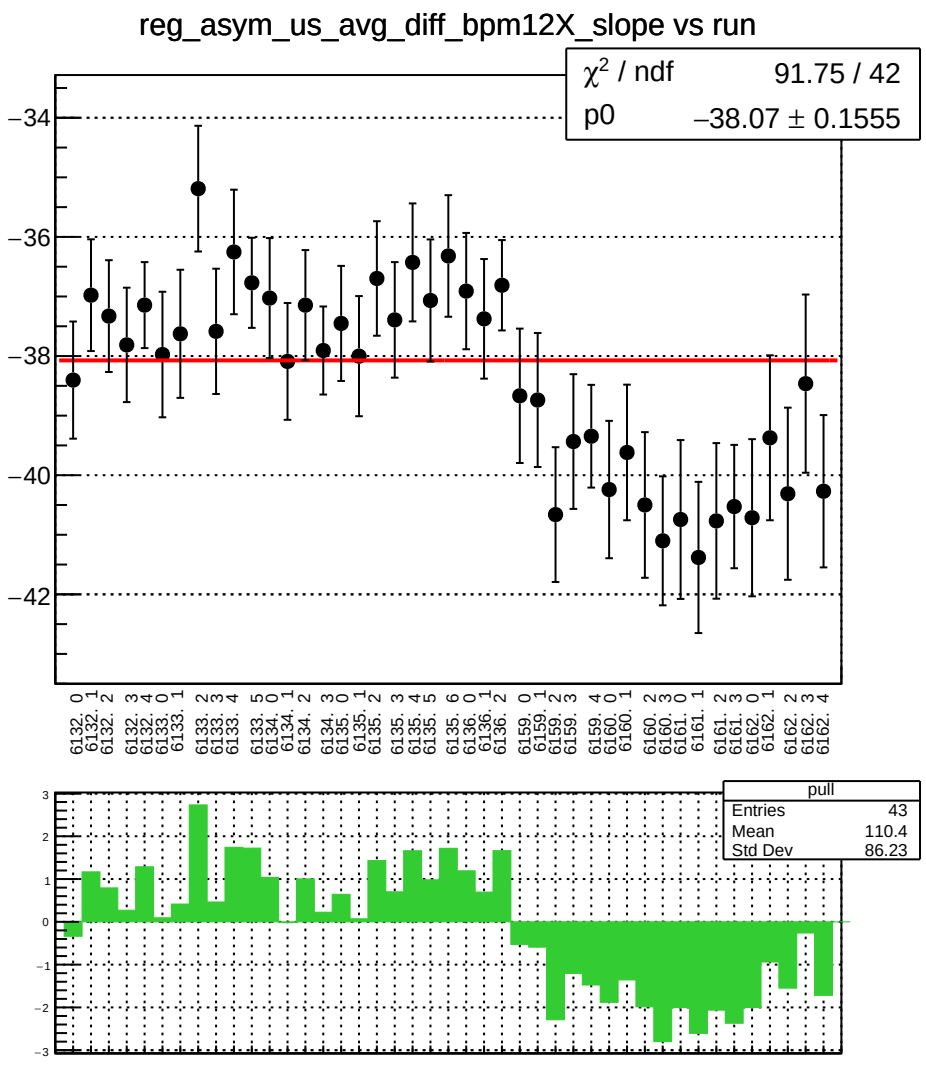

pull1D
Entries 43
Mean 0.07333
Std Dev 0.5992

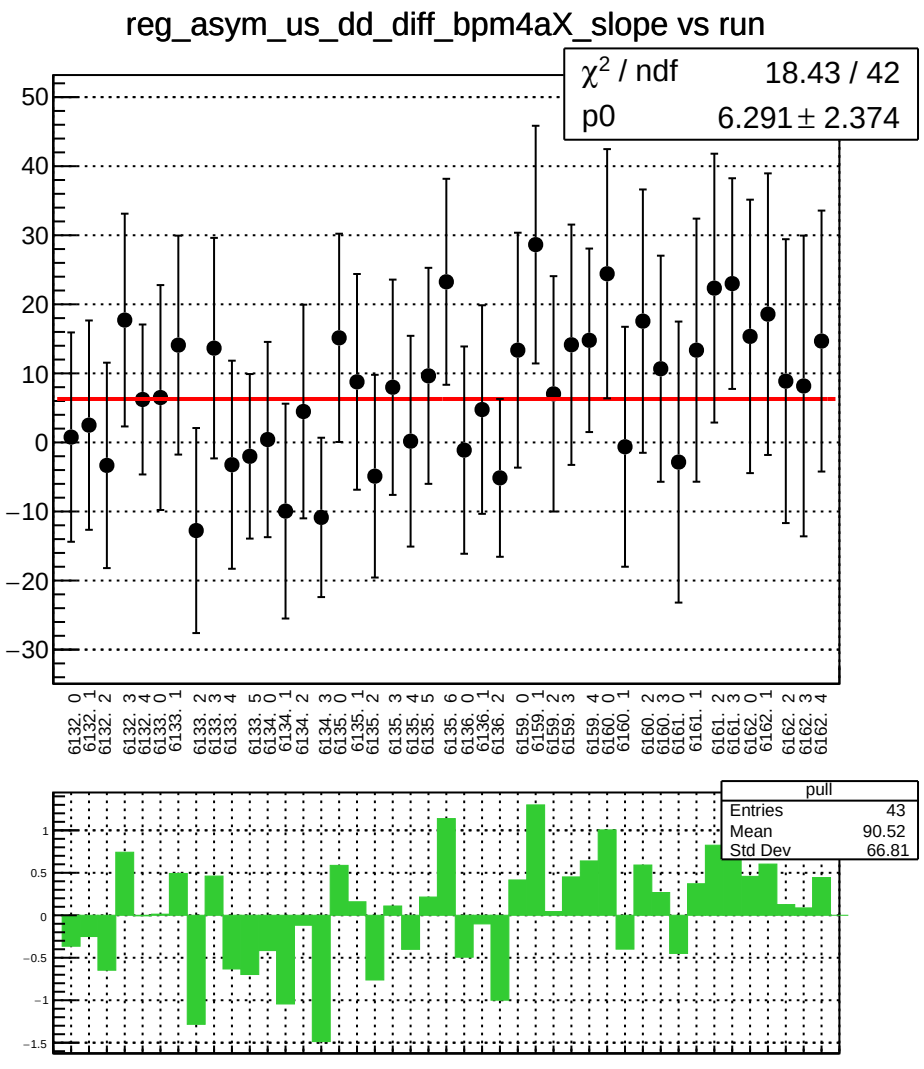

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 49.59 / 42
p0 133.3 ± 3.507
220
200
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 115.8
Std Dev 91.84
2
1.5
1
0.5
0
−0.5
−1
−1.5

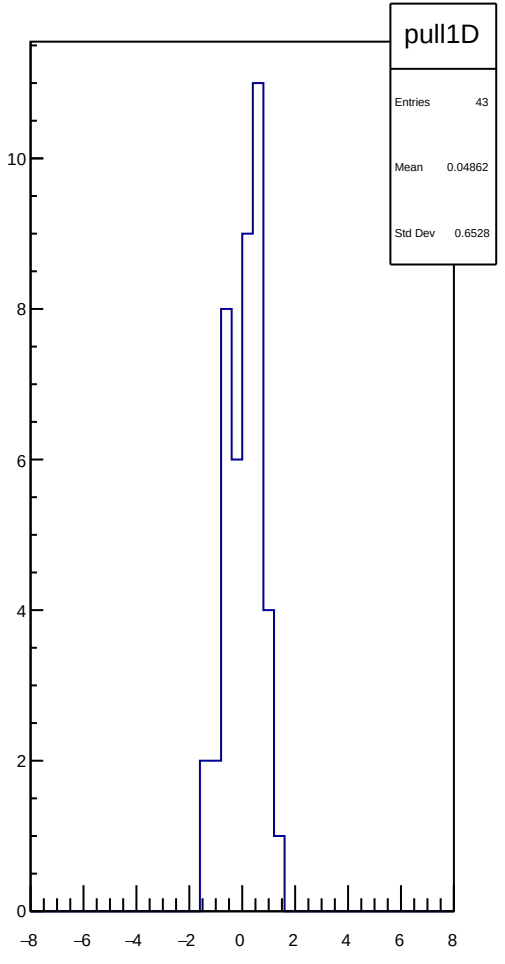

pull1D
Entries 43
Mean 0.09764
Std Dev 1.069
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

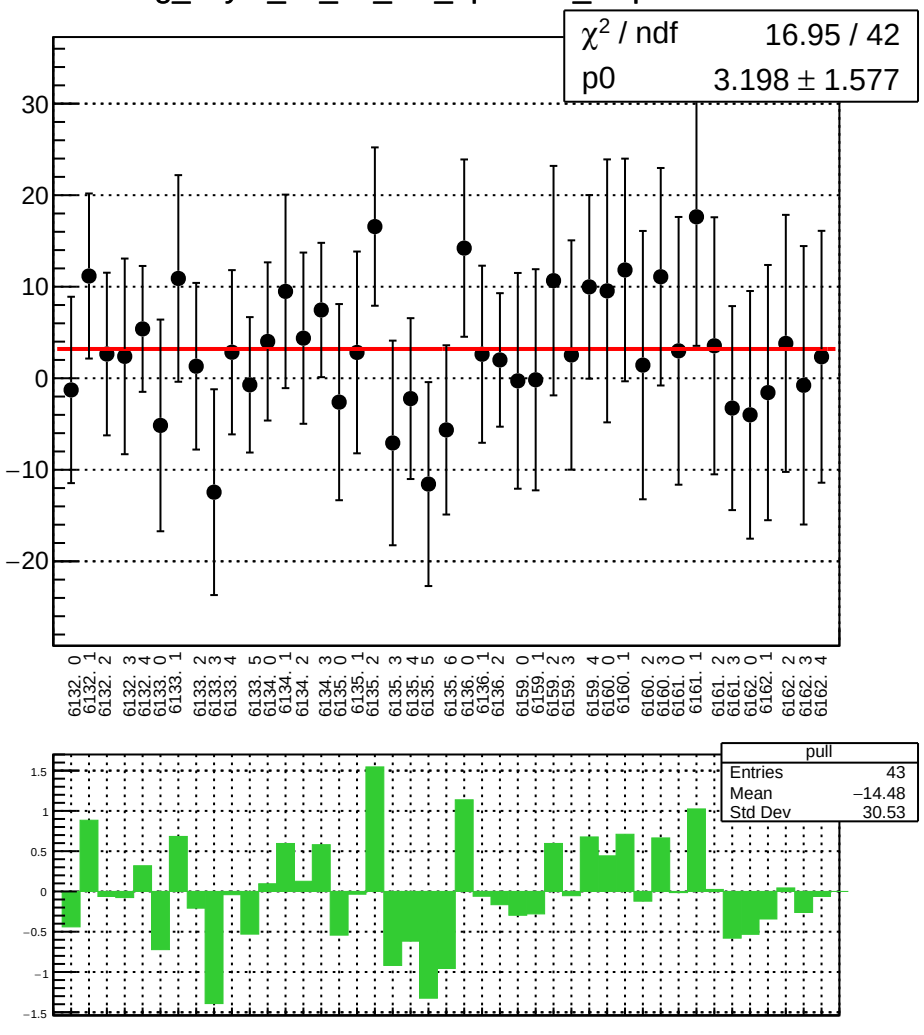

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.52 / 42
p0 8.945 ± 2.126
pull
Entries 43
Mean 83.78
Std Dev 59.18

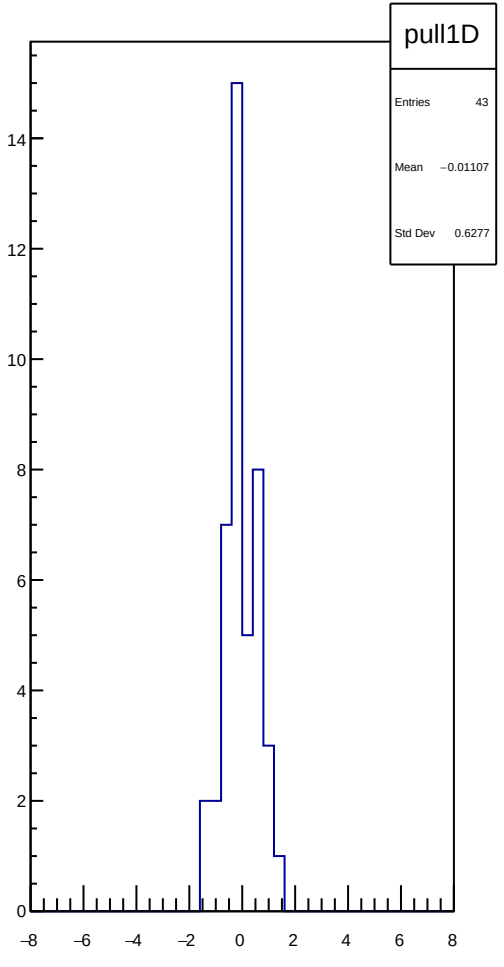

pull1D
Entries 43
Mean −0.09634
Std Dev 0.684

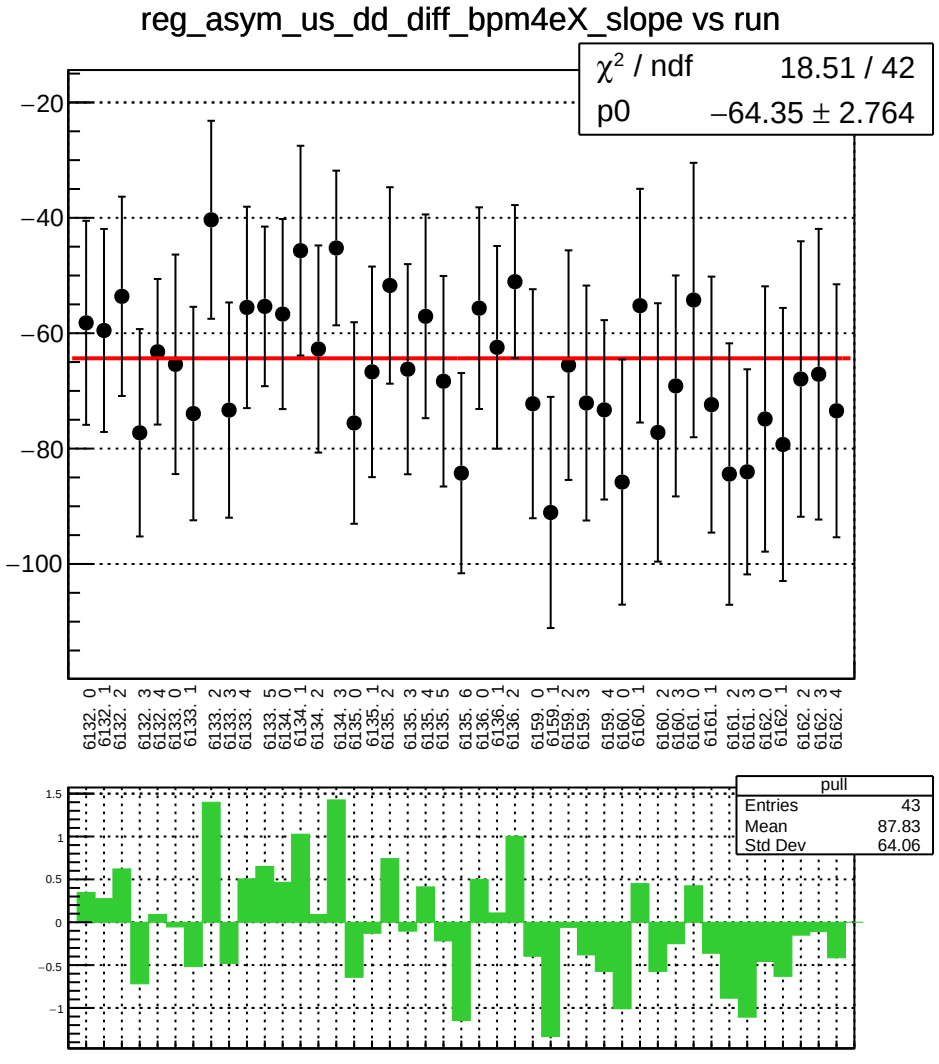

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 91.75 / 42
p0 −38.07 ± 0.1555
−34
−36
−38
−40
−42
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 110.4
Std Dev 86.23
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.1456
Std Dev 1.453
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

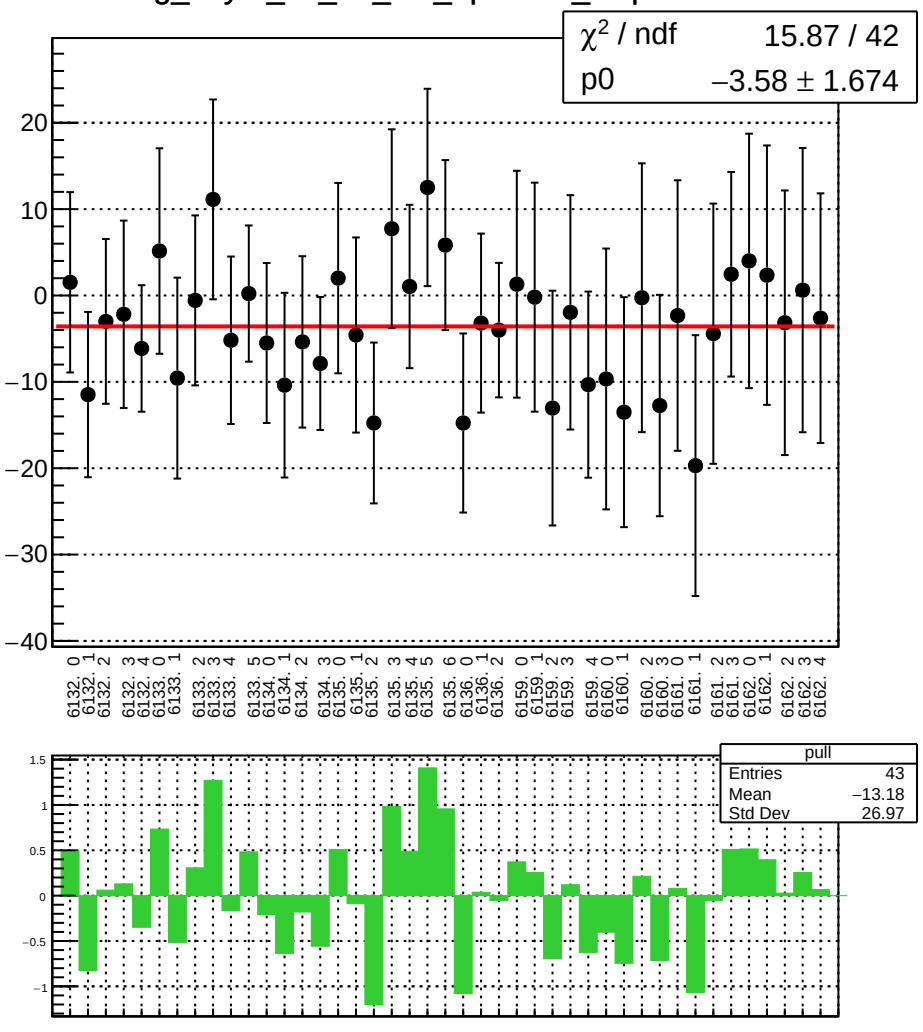

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 18.43 / 42
p0 6.291 ± 2.374
pull
Entries 43
Mean 90.52
Std Dev 66.81

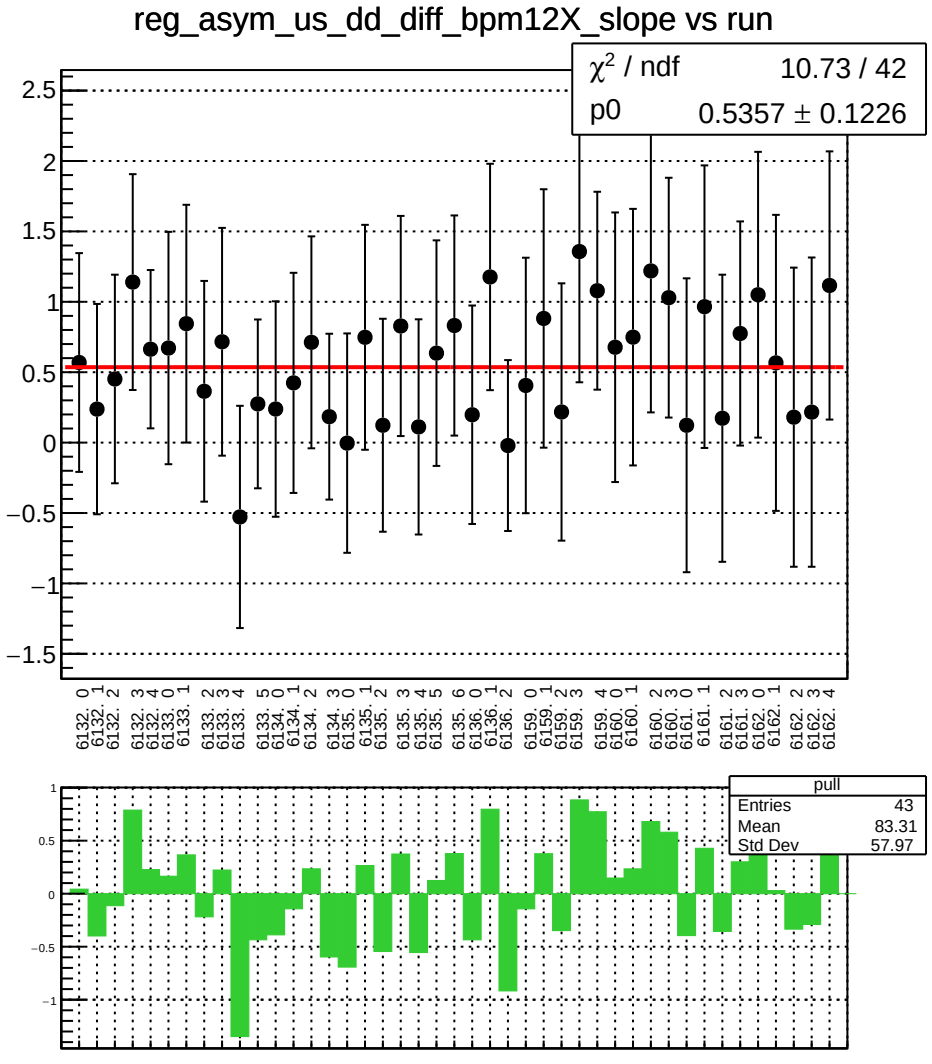

pull1D
Entries 43
Mean 0.04862
Std Dev 0.6528

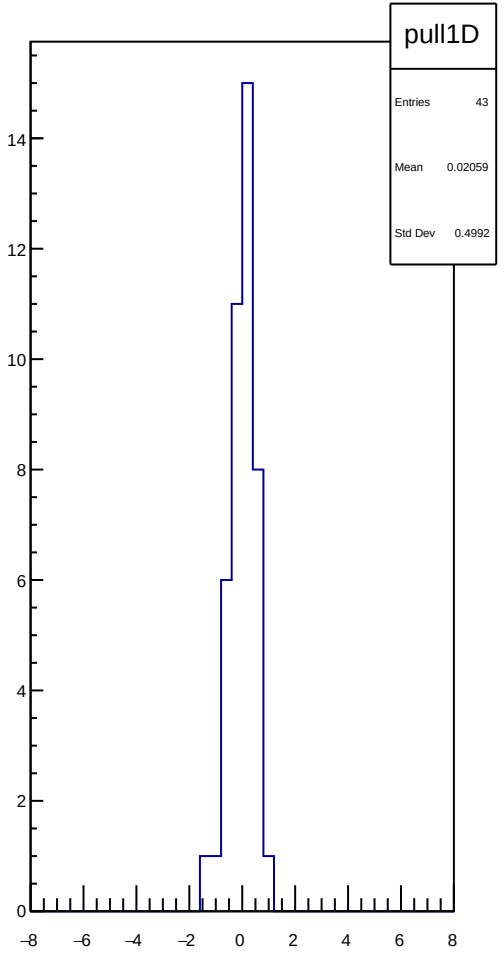

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.95 / 42
p0 3.198 ± 1.577
pull
Entries 43
Mean −14.48
Std Dev 30.53

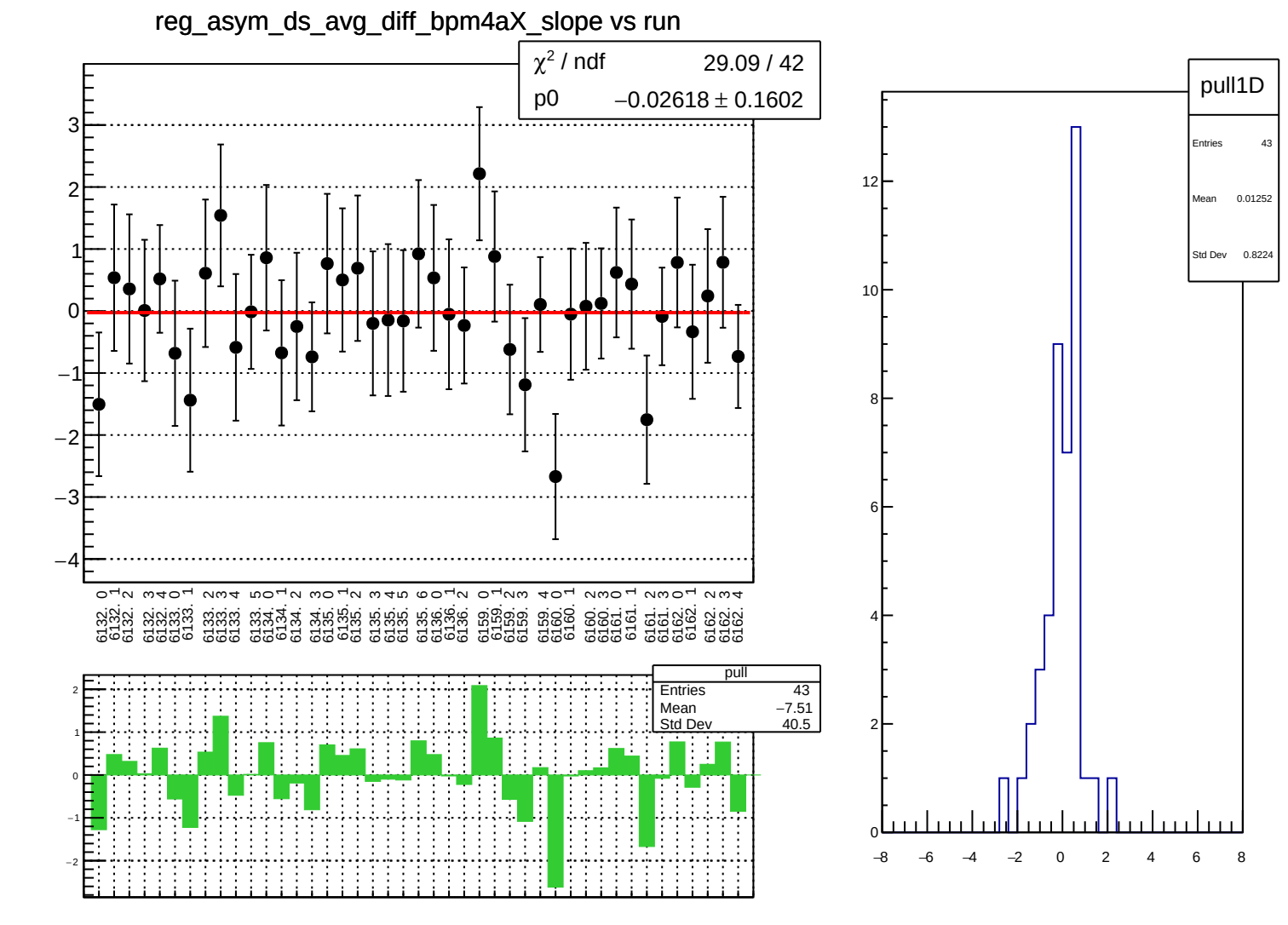

pull1D
Entries 43
Mean −0.01107
Std Dev 0.6277

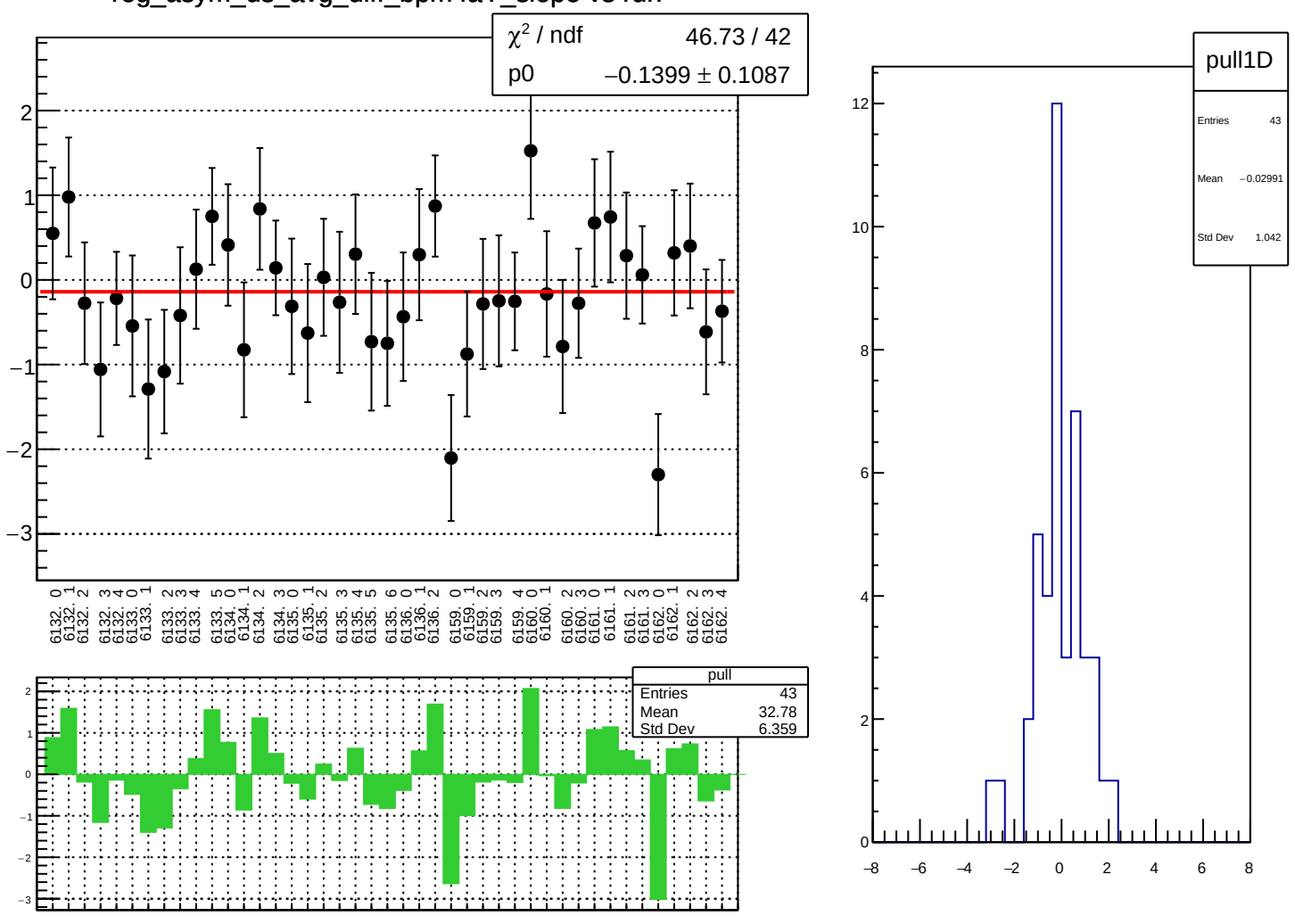

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.51 / 42
p0 −64.35 ± 2.764
−20
−40
−60
−80
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 87.83
Std Dev 64.06
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.05048
Std Dev 0.6541
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

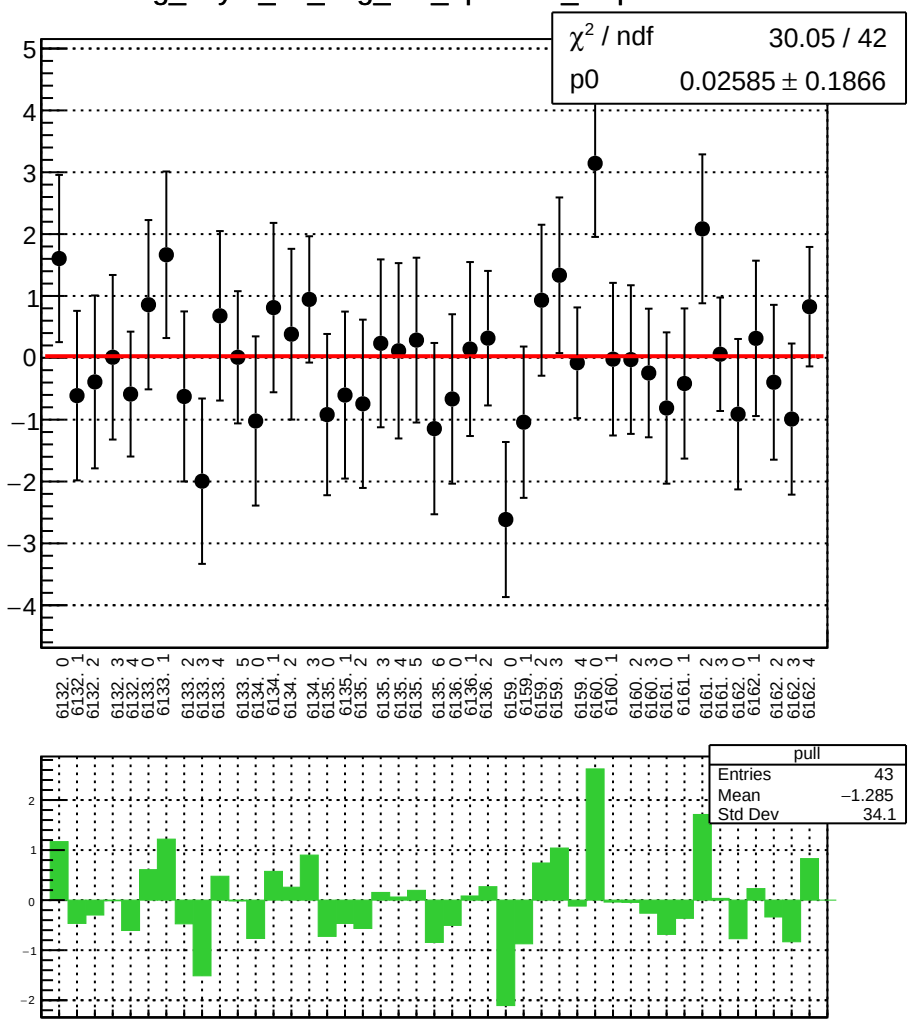

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.87 / 42
p0 −3.58 ± 1.674
20
10
0
−10
−20
−30
−40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −13.18
Std Dev 26.97
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.01156
Std Dev 0.6074
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

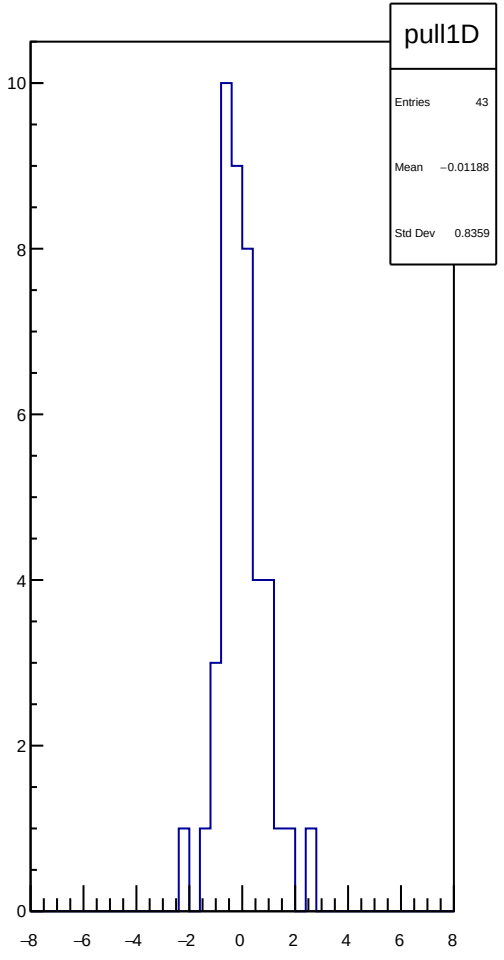

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 10.73 / 42
p0 0.5357 ± 0.1226
pull
Entries 43
Mean 83.31
Std Dev 57.97

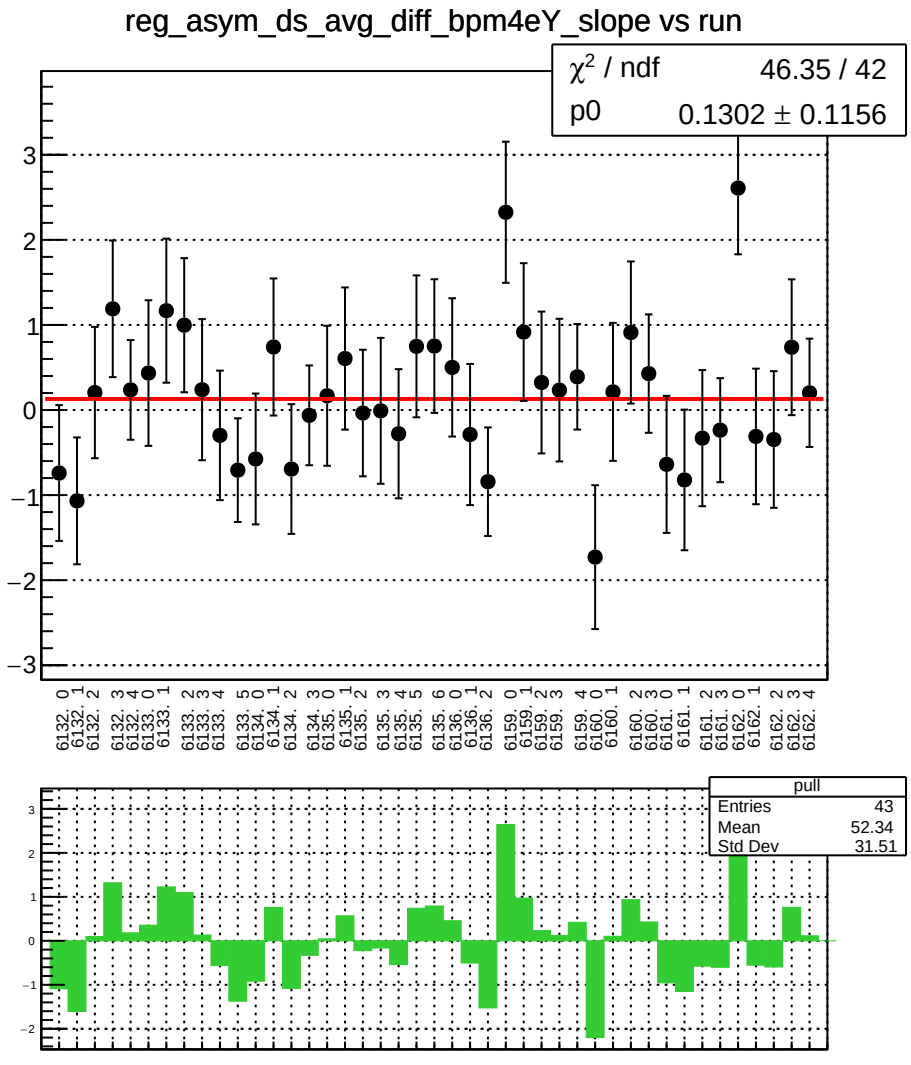

pull1D
Entries 43
Mean 0.02059
Std Dev 0.4992

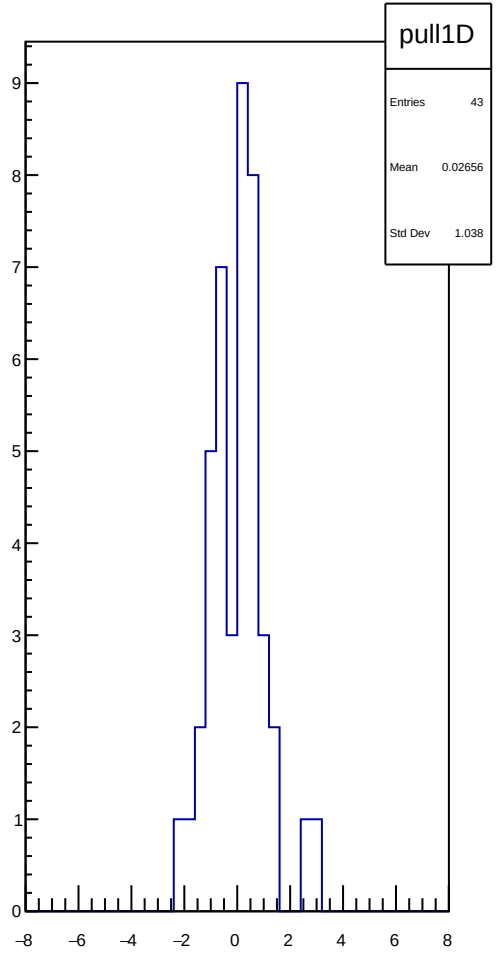

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 29.09 / 42
p0 −0.02618 ± 0.1602
pull
Entries 43
Mean −7.51
Std Dev 40.5
pull1D
Entries 43
Mean 0.01252
Std Dev 0.8224

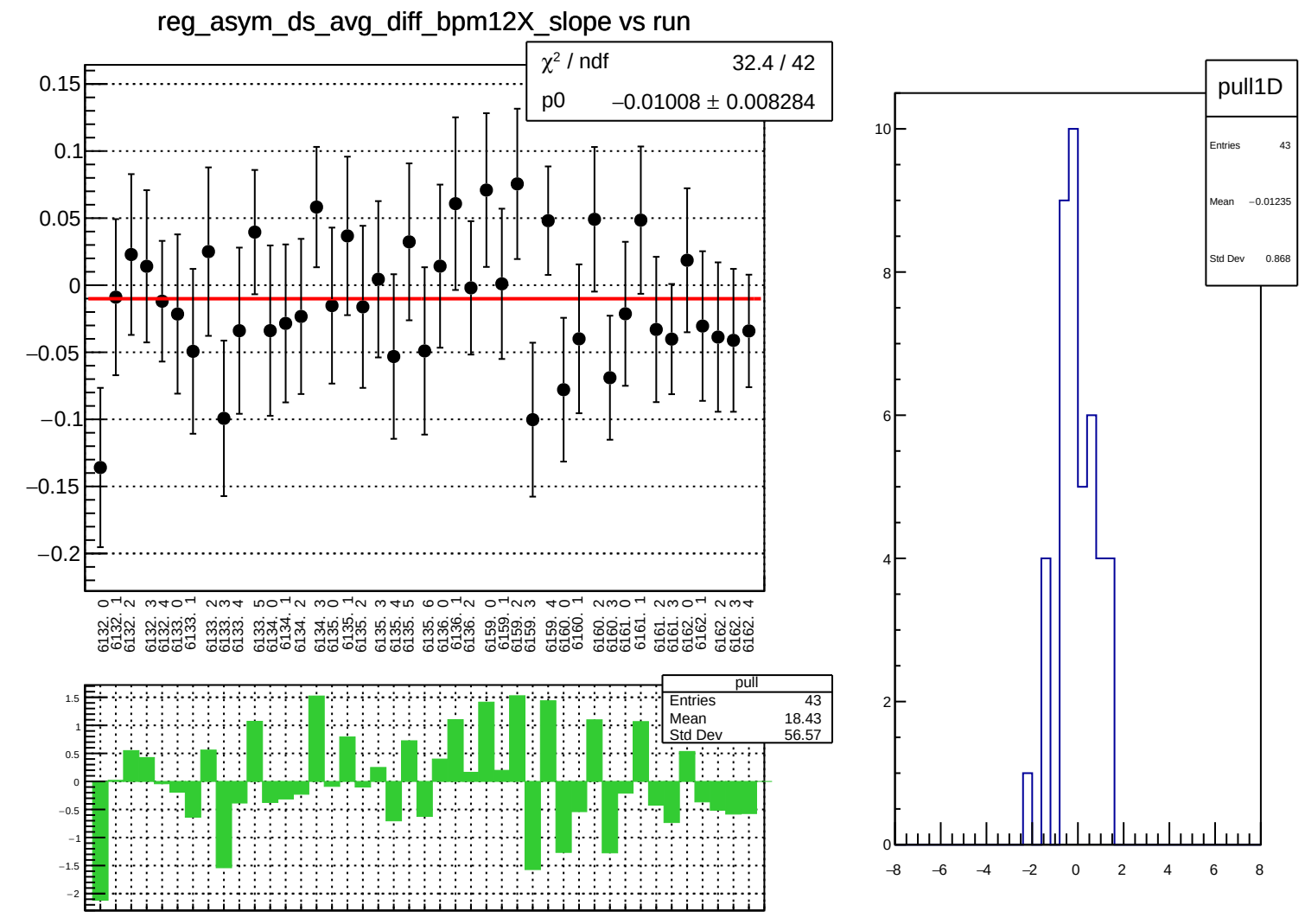

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 46.73 / 42
p0 −0.1399 ± 0.1087
pull
Entries 43
Mean 32.78
Std Dev 6.359
pull1D
Entries 43
Mean −0.02991
Std Dev 1.042

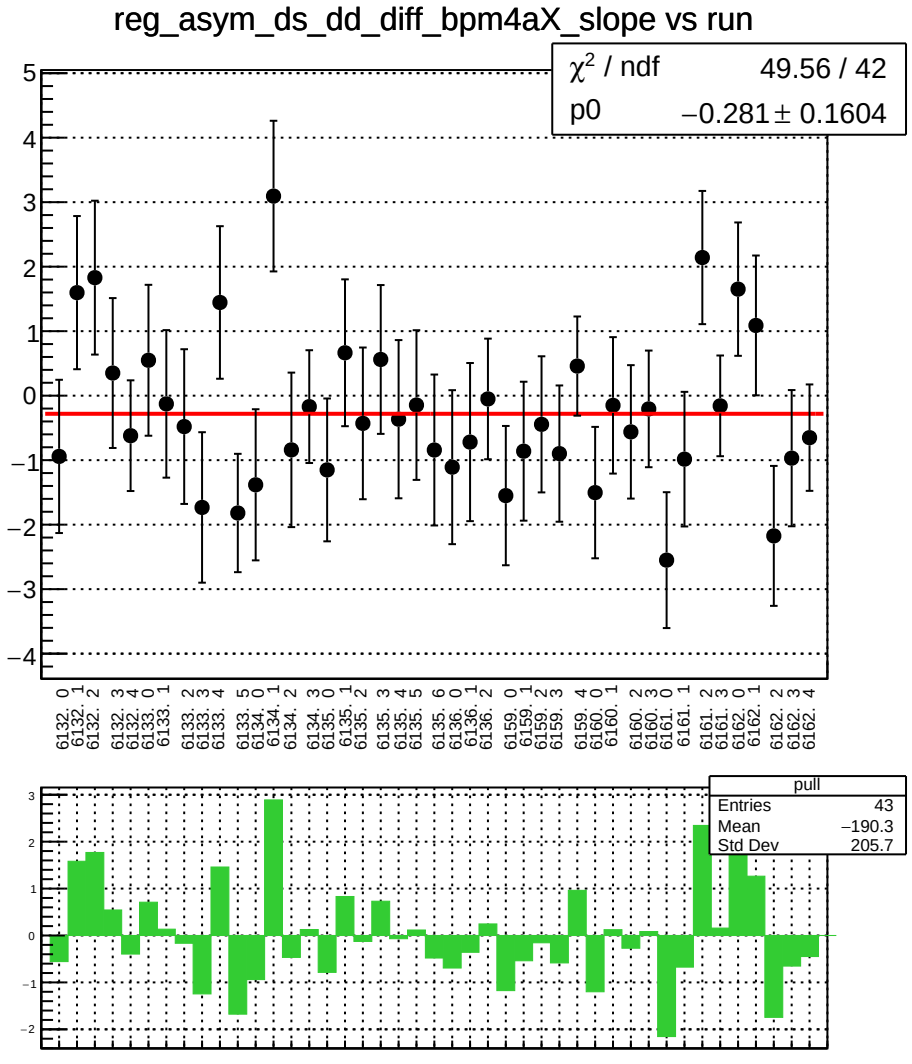

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.05 / 42
p0 0.02585 ± 0.1866
pull
Entries 43
Mean −1.285
Std Dev 34.1

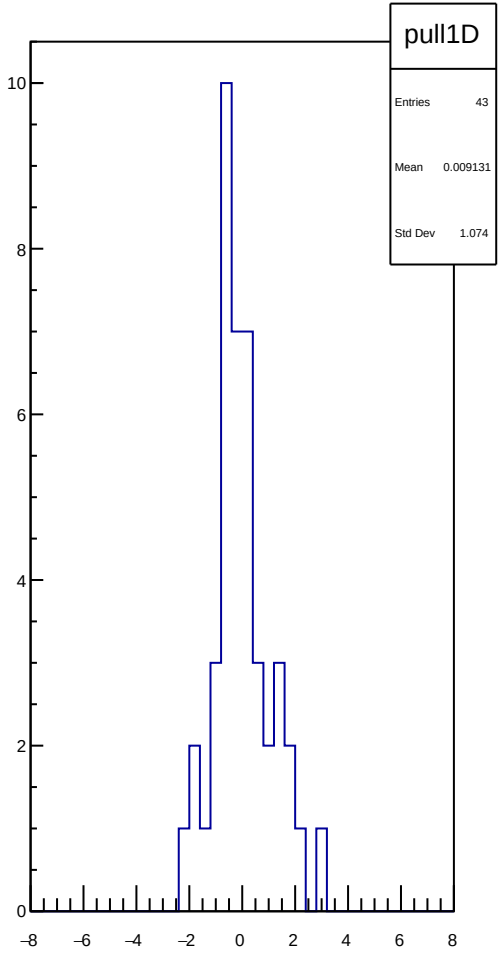

pull1D
Entries 43
Mean −0.01188
Std Dev 0.8359

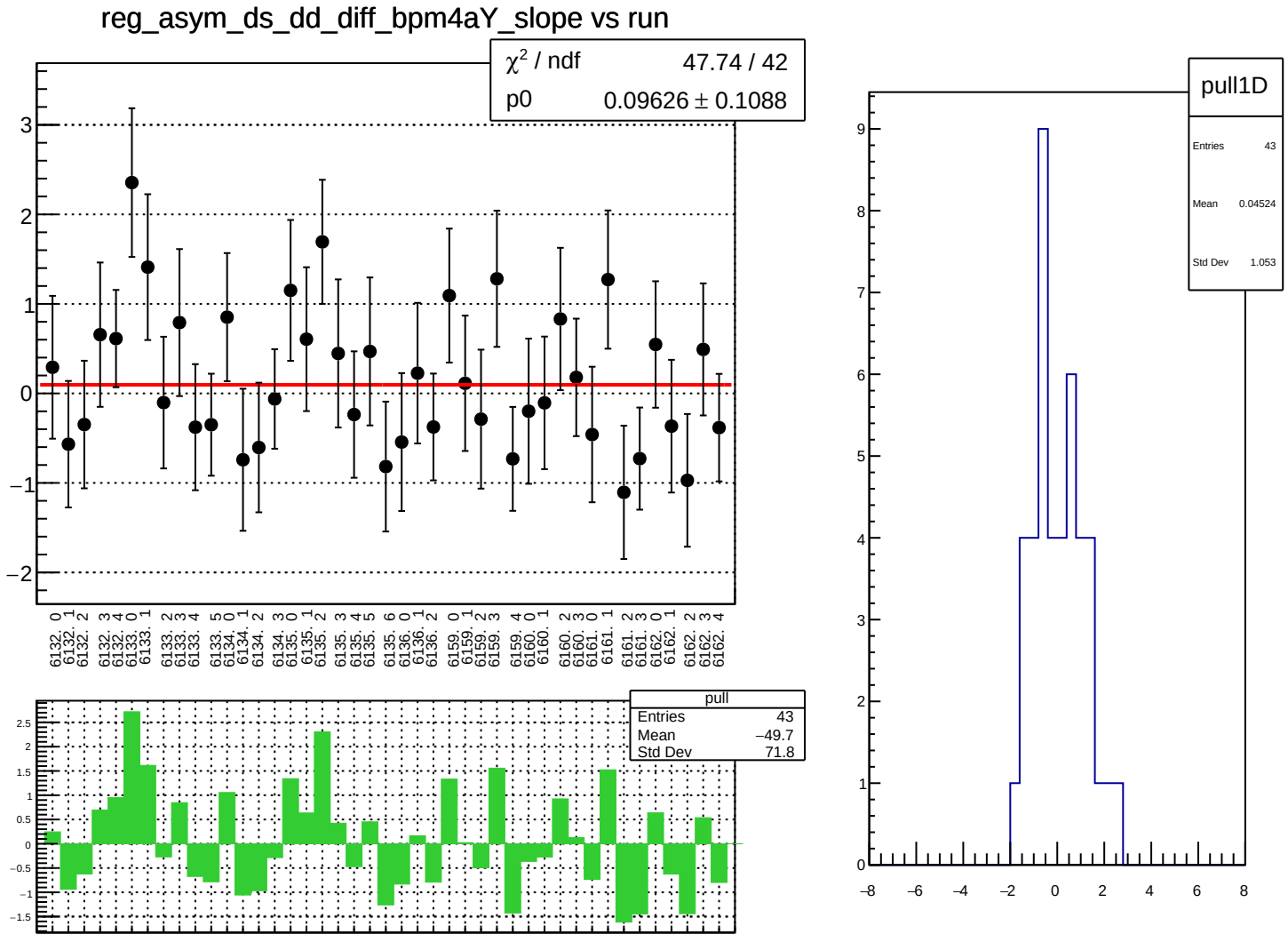

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 46.35 / 42
p0 0.1302 ± 0.1156
pull
Entries 43
Mean 52.34
Std Dev 31.51

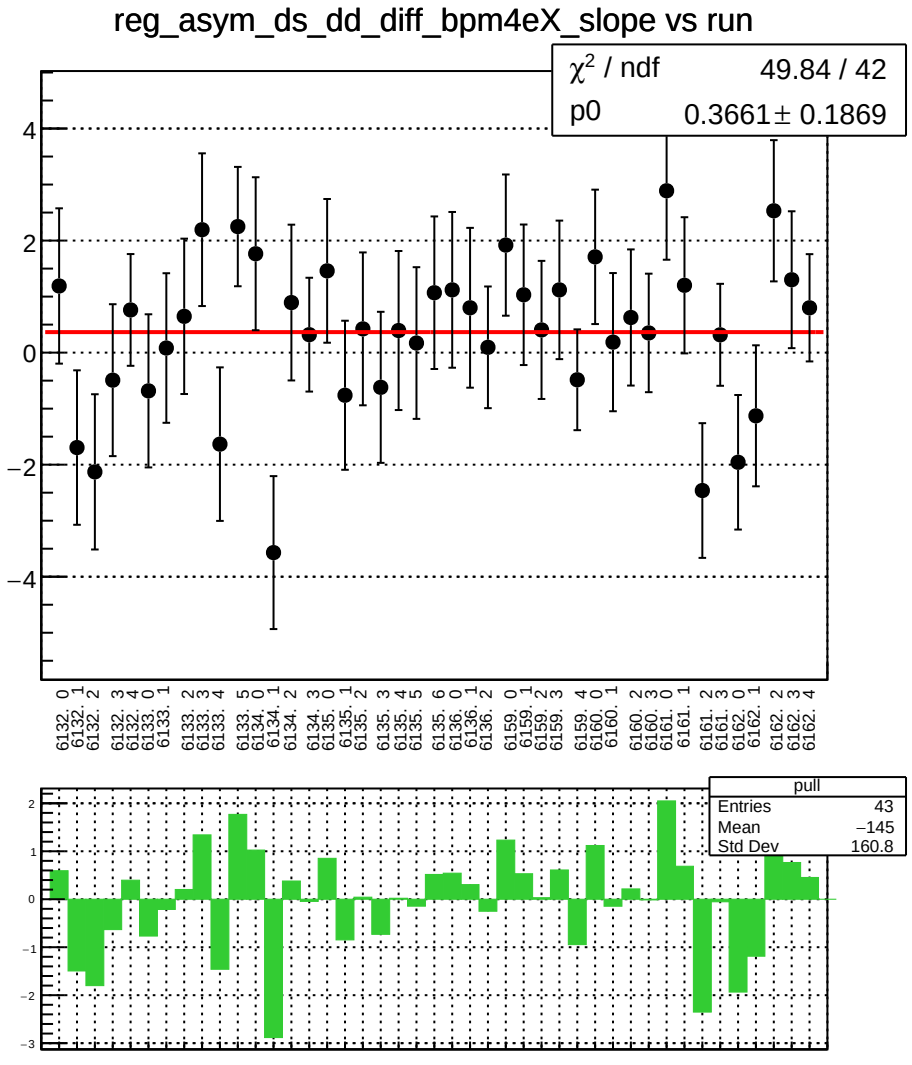

pull1D
Entries 43
Mean 0.02656
Std Dev 1.038

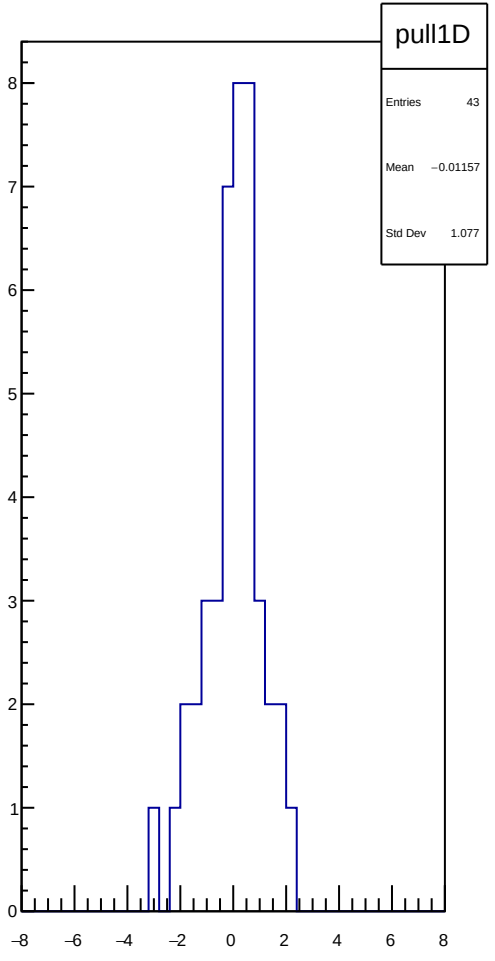

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 32.4 / 42
p0 −0.01008 ± 0.008284
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 18.43
Std Dev 56.57
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01235
Std Dev 0.868
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

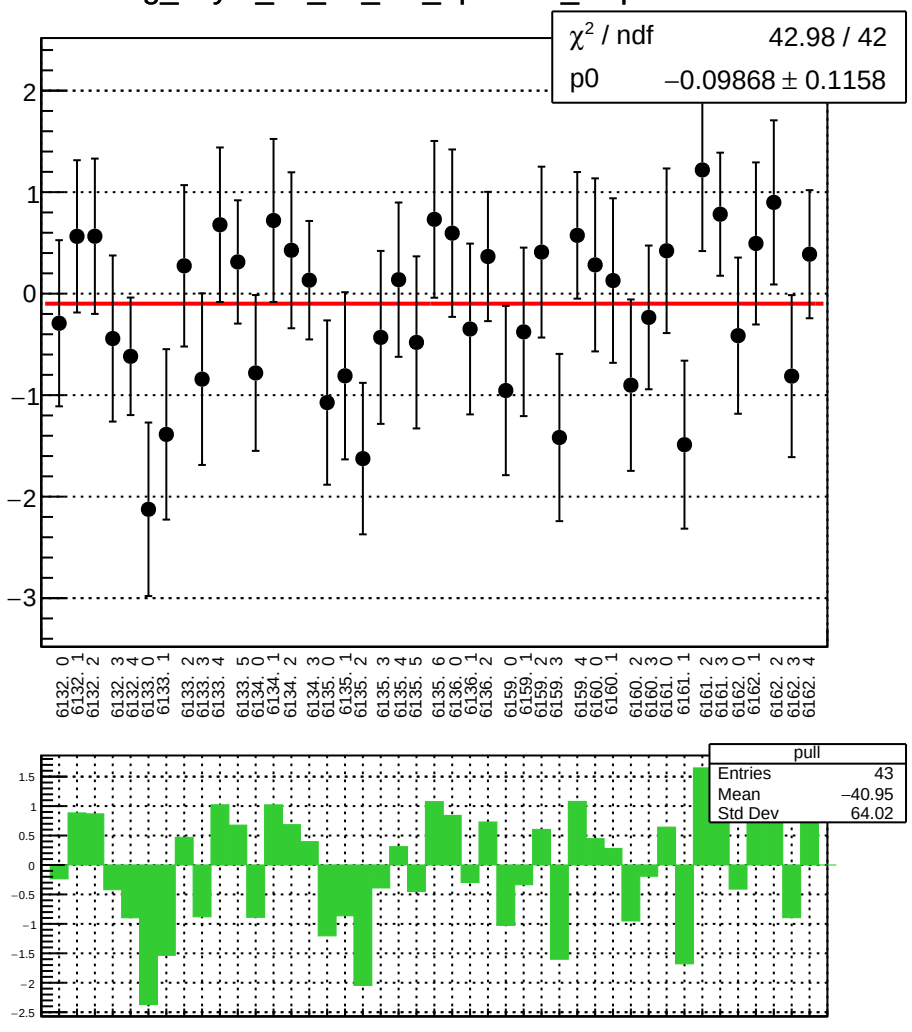

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 49.56 / 42
p0 −0.281 ± 0.1604
pull
Entries 43
Mean −190.3
Std Dev 205.7

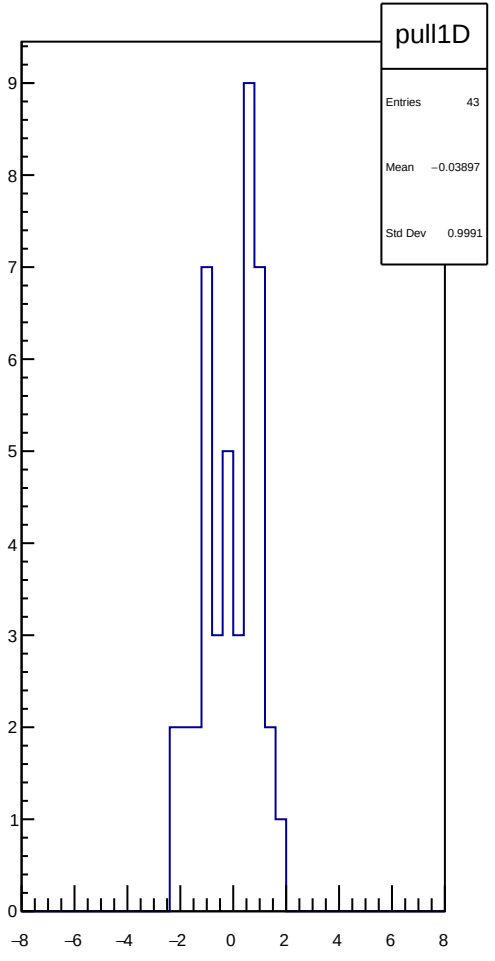

pull1D
Entries 43
Mean 0.009131
Std Dev 1.074

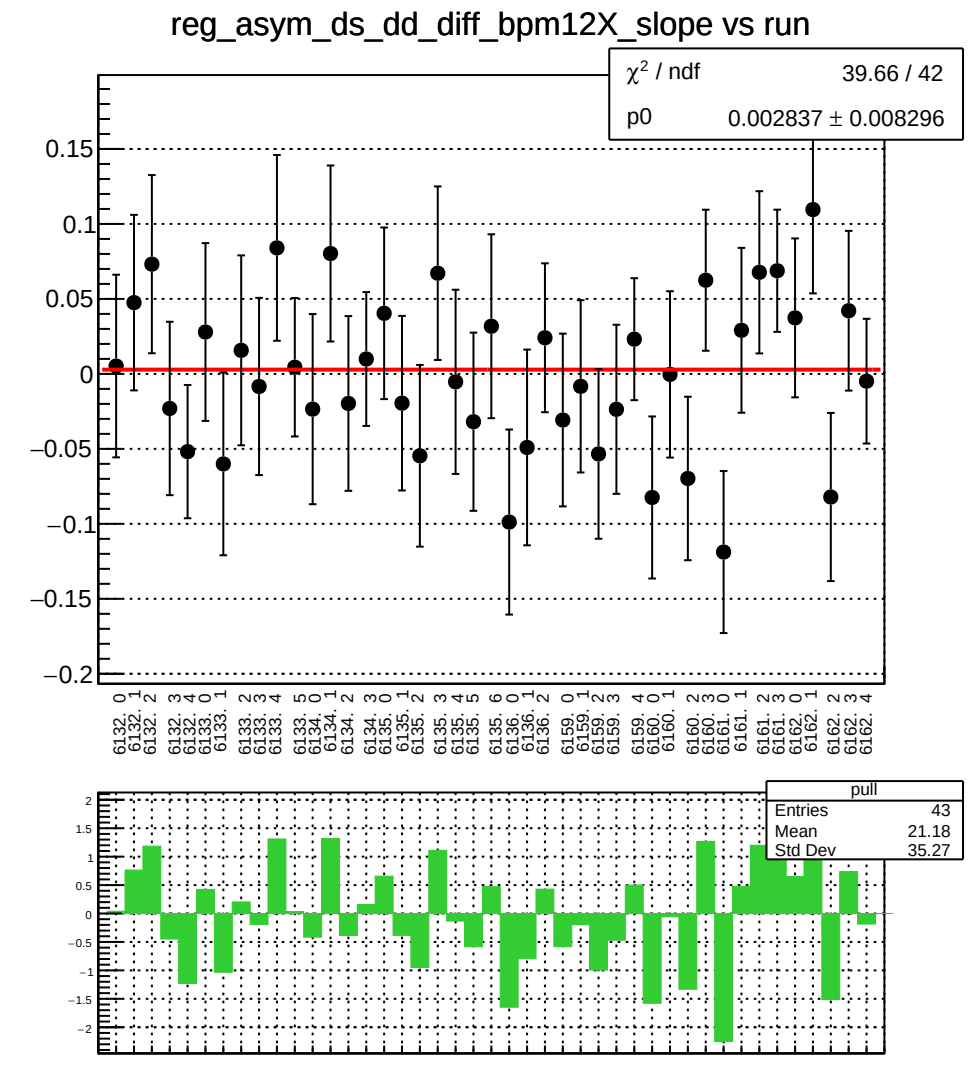

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.74 / 42
p0 0.09626 ± 0.1088
pull
Entries 43
Mean −49.7
Std Dev 71.8
pull1D
Entries 43
Mean 0.04524
Std Dev 1.053

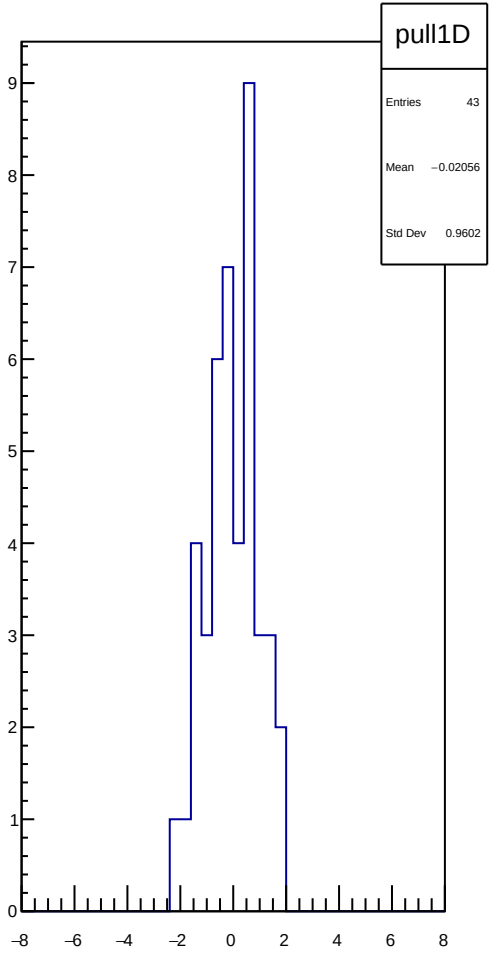

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.84 / 42
p0 0.3661 ± 0.1869
pull
Entries 43
Mean −145
Std Dev 160.8

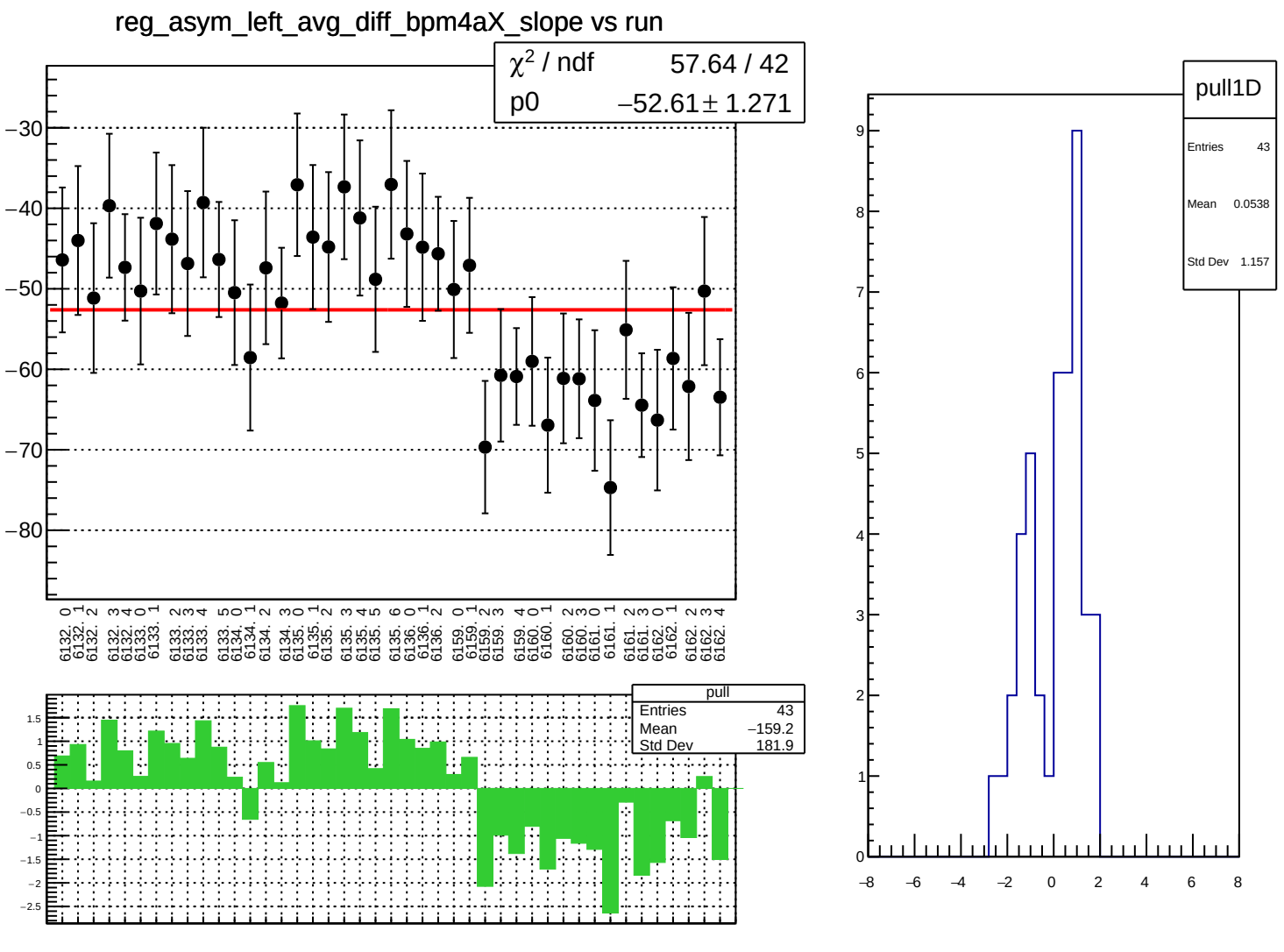

pull1D
Entries 43
Mean −0.01157
Std Dev 1.077

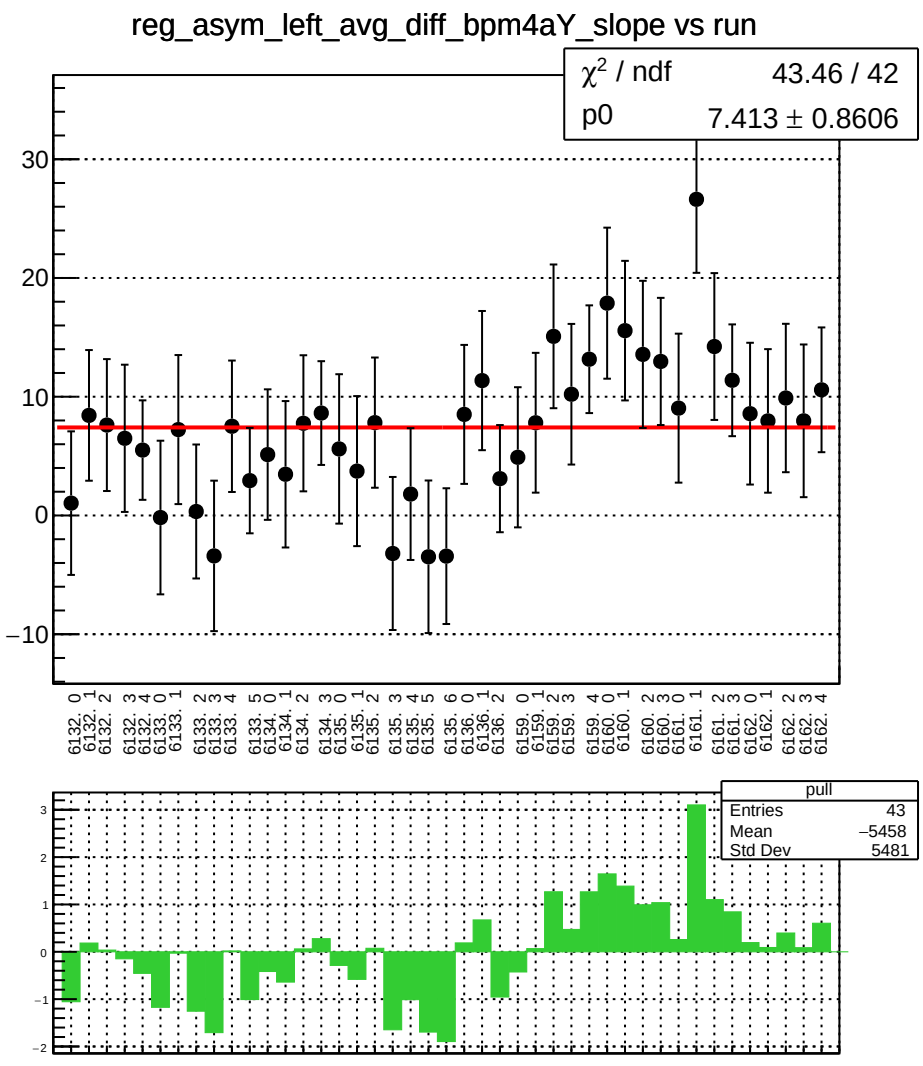

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 42.98 / 42
p0 −0.09868 ± 0.1158
pull
Entries 43
Mean −40.95
Std Dev 64.02

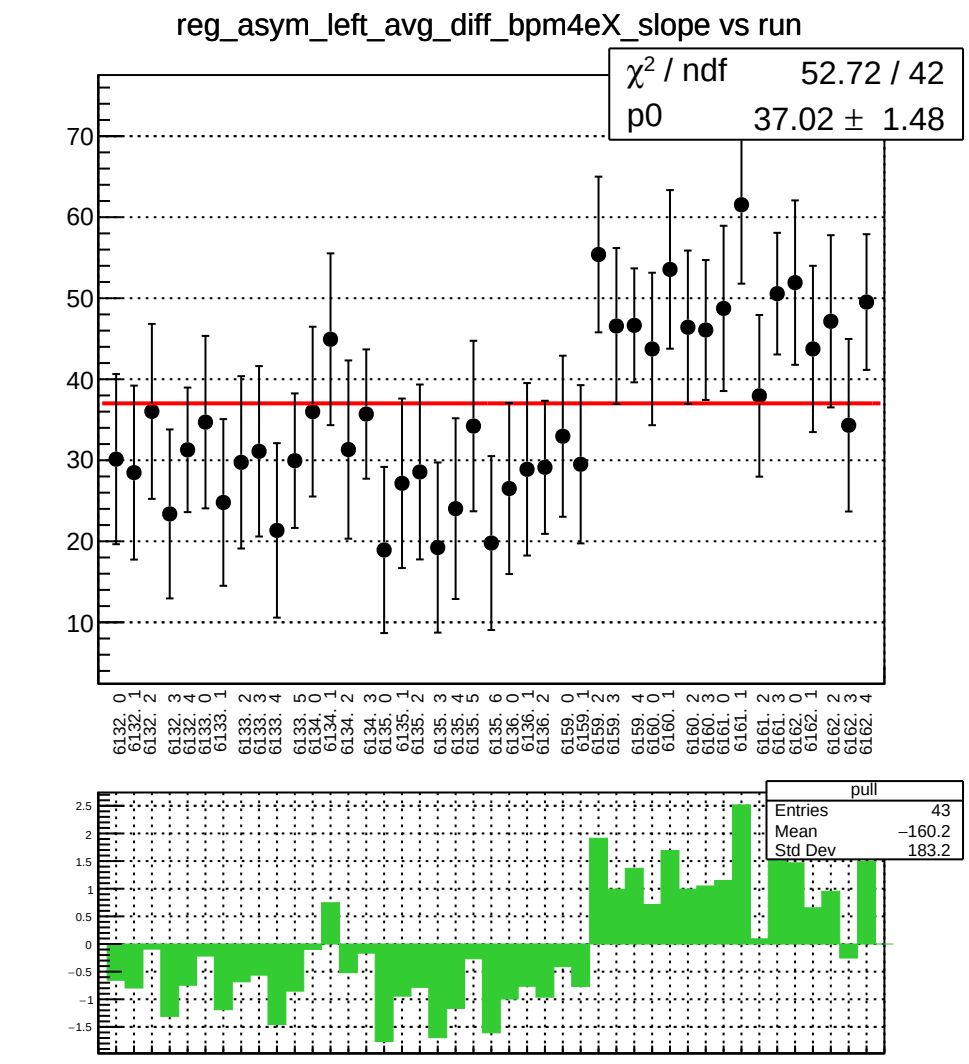

pull1D
Entries 43
Mean −0.03897
Std Dev 0.9991

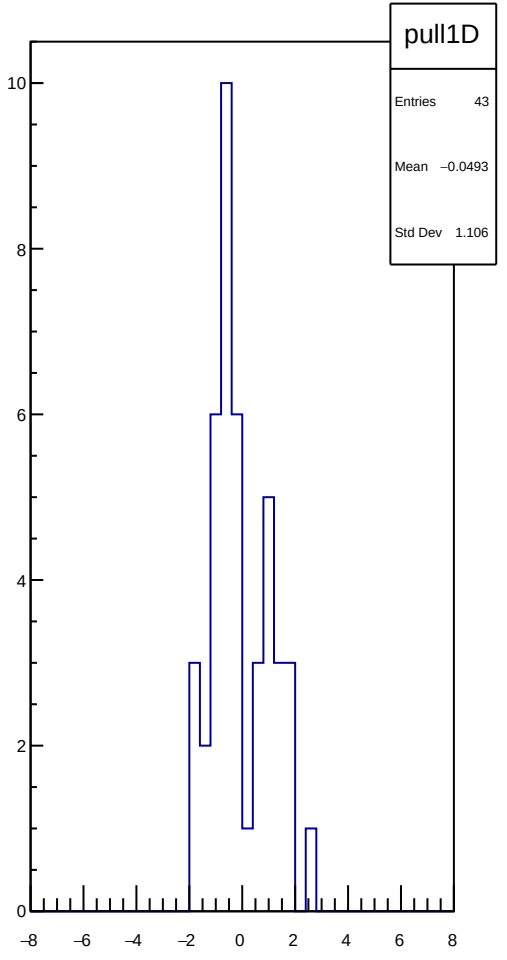

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 39.66 / 42
p0 0.002837 ± 0.008296
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 21.18
Std Dev 35.27
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

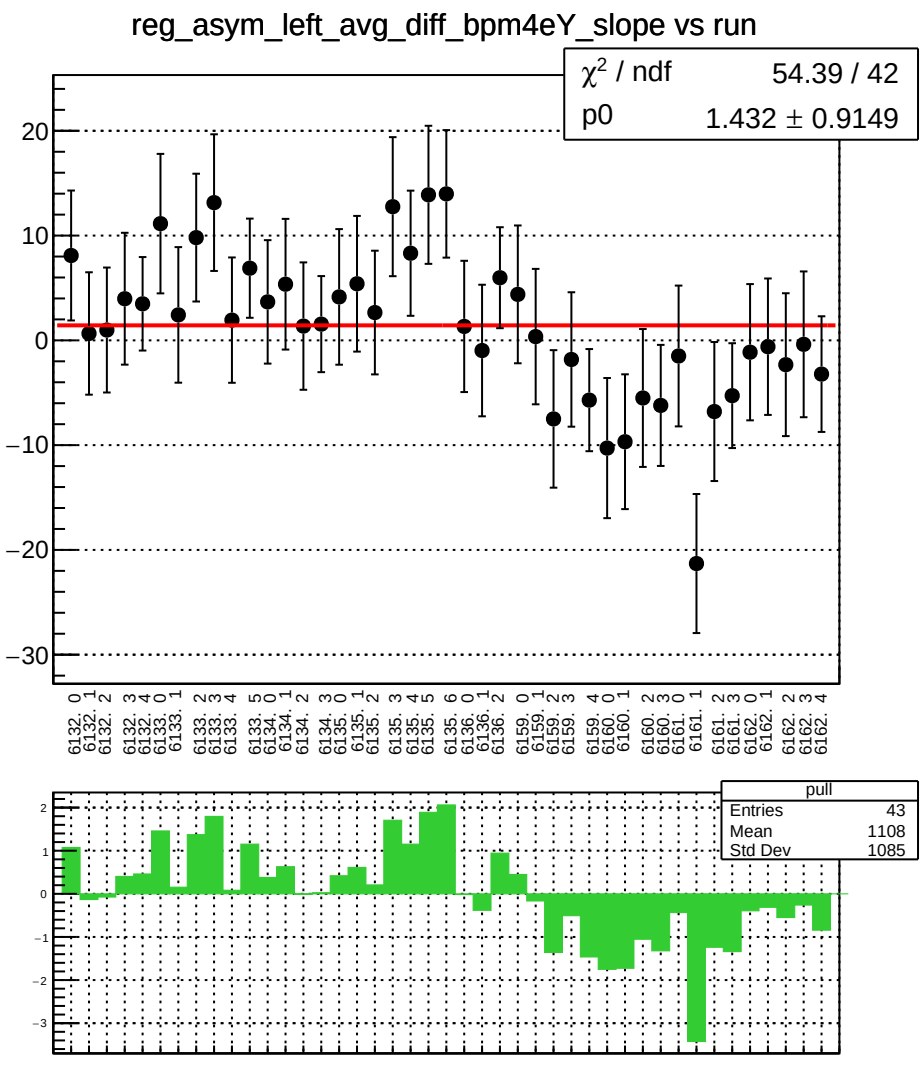

pull1D
Entries 43
Mean −0.02056
Std Dev 0.9602
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

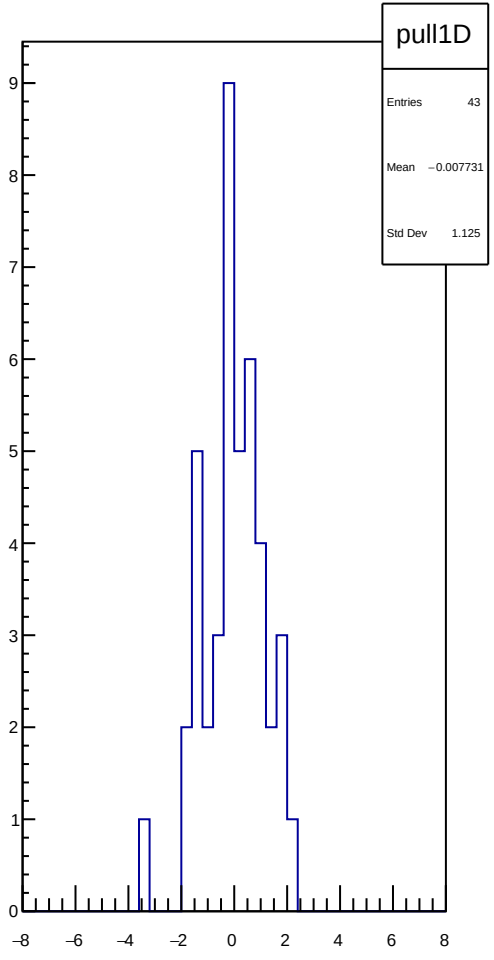

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 57.64 / 42
p0 −52.61 ± 1.271
pull
Entries 43
Mean −159.2
Std Dev 181.9
pull1D
Entries 43
Mean 0.0538
Std Dev 1.157

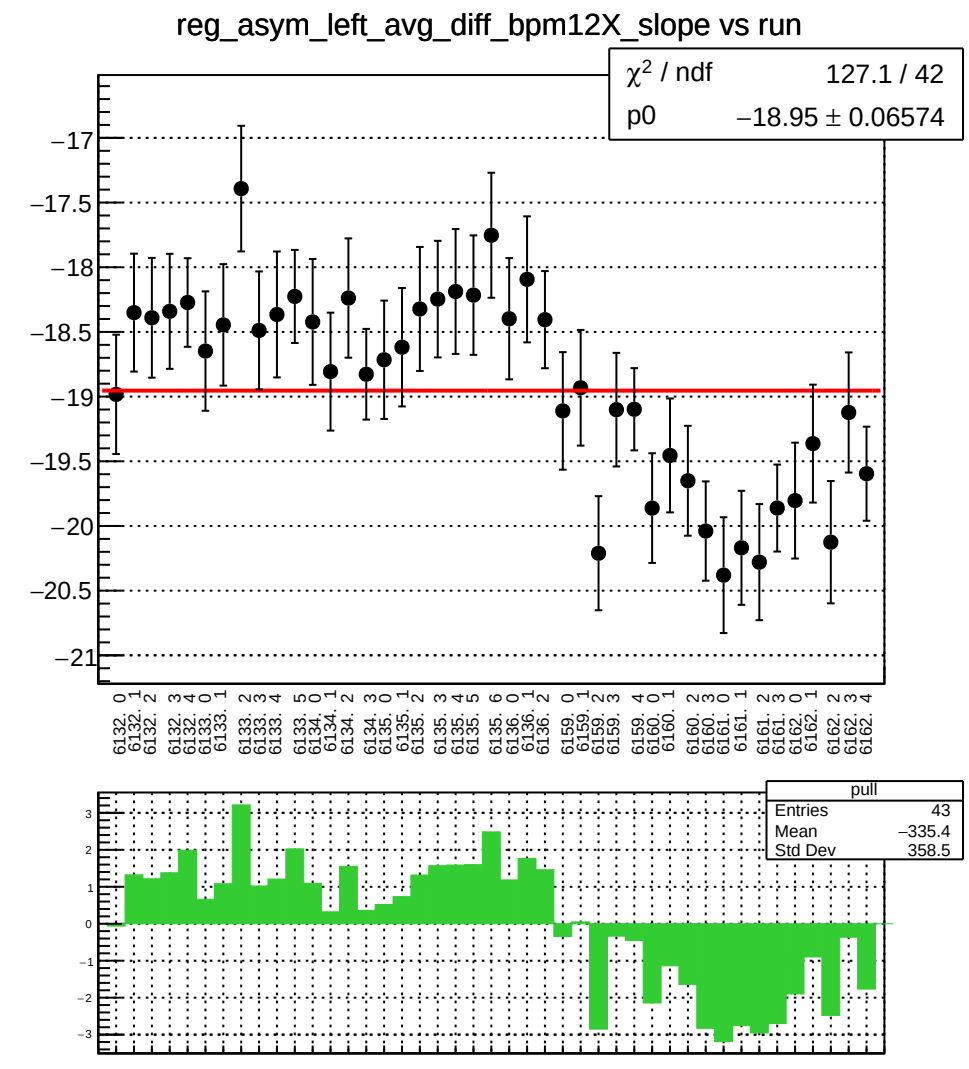

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.46 / 42
p0 7.413 ± 0.8606
30
20
10
0
−10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −5458
Std Dev 5481
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.001242
Std Dev 1.005
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

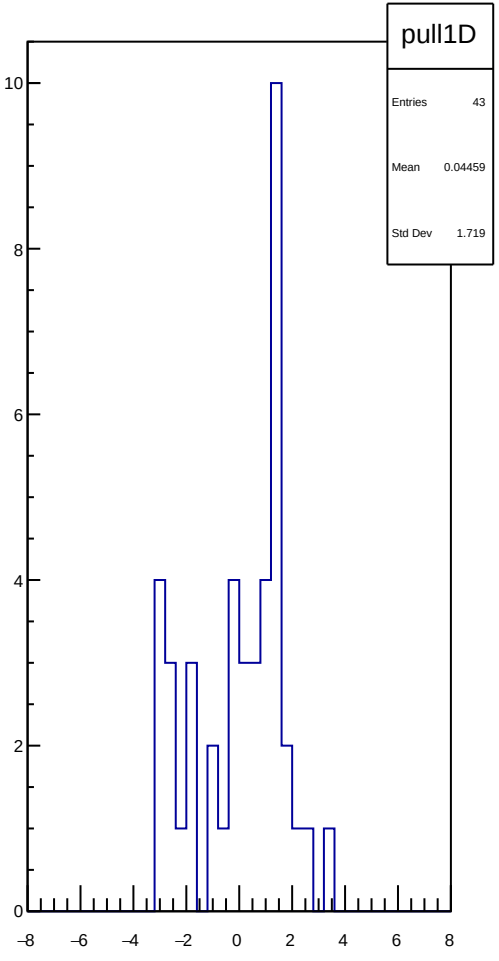

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 52.72 / 42
p0 37.02 ± 1.48
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −160.2
Std Dev 183.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

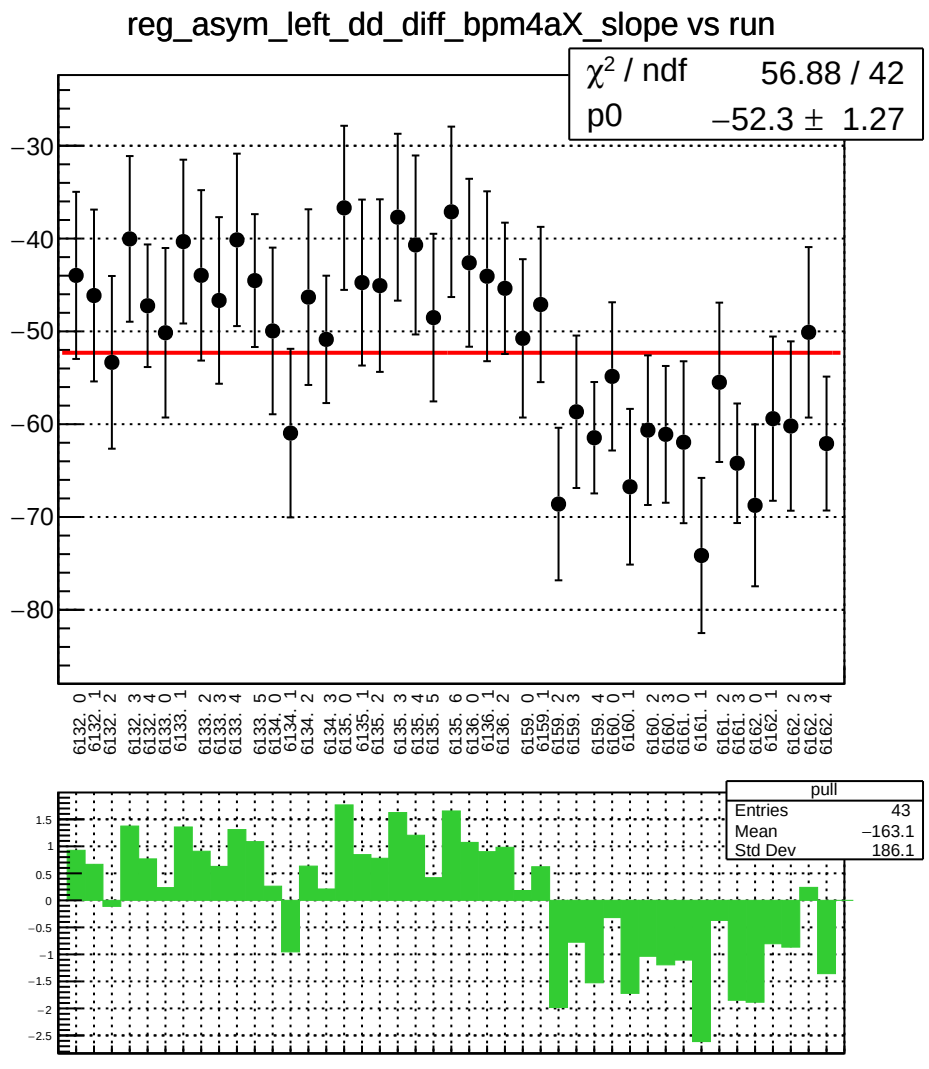

pull1D
Entries 43
Mean −0.0493
Std Dev 1.106
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

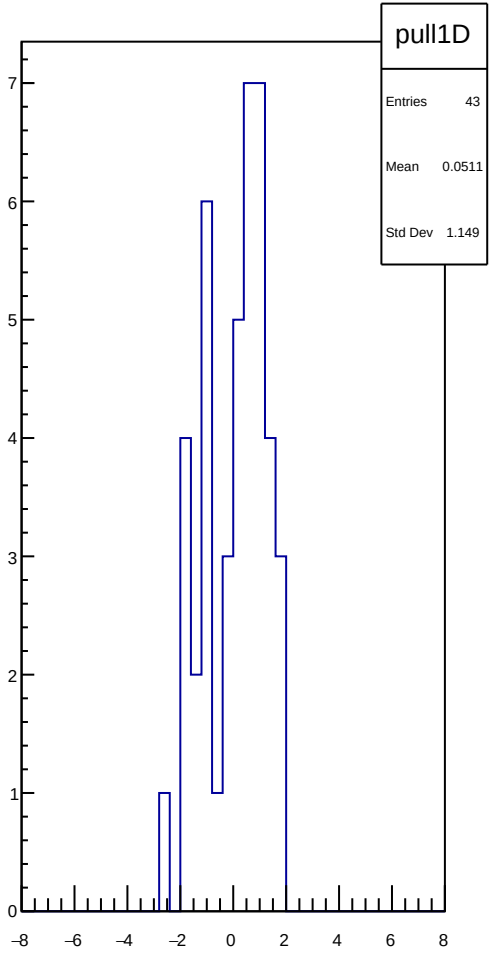

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 54.39 / 42
p0 1.432 ± 0.9149
20
10
0
−10
−20
−30
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 1108
Std Dev 1085
2
1
0
−1
−2
−3

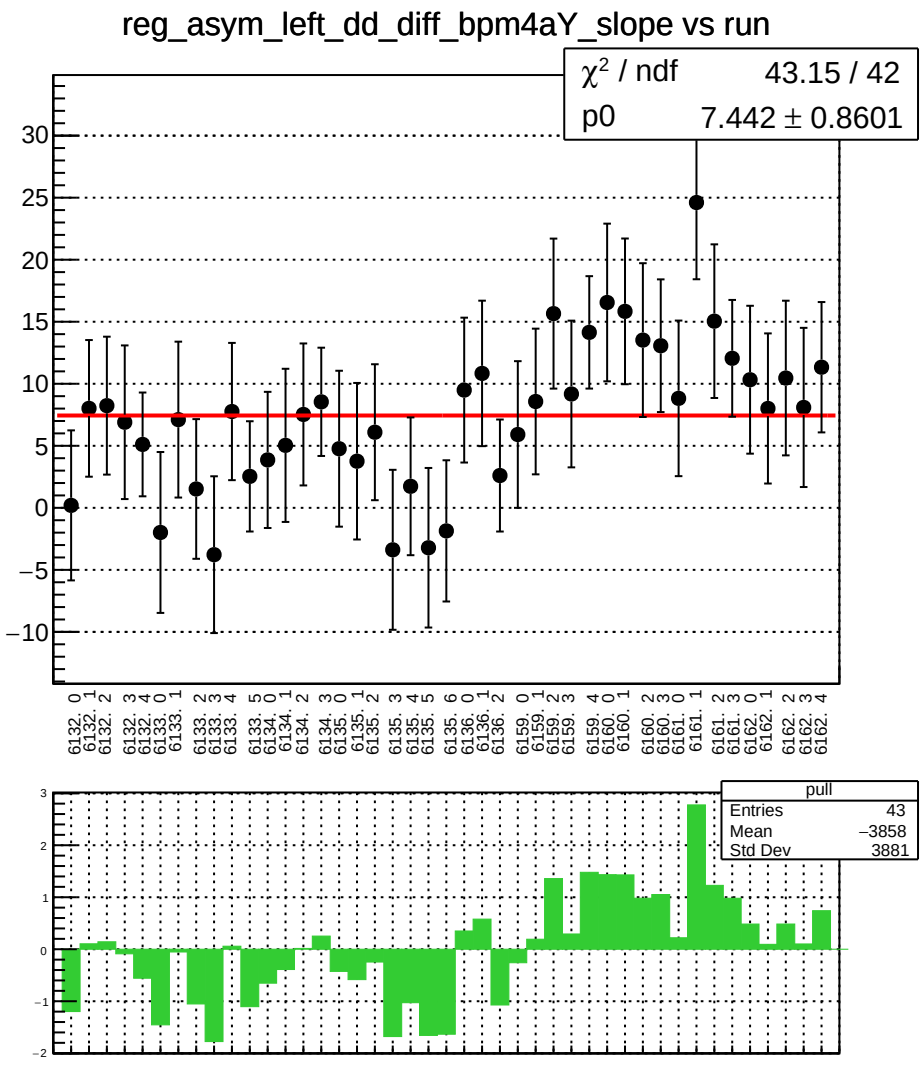

pull1D
Entries 43
Mean −0.007731
Std Dev 1.125
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

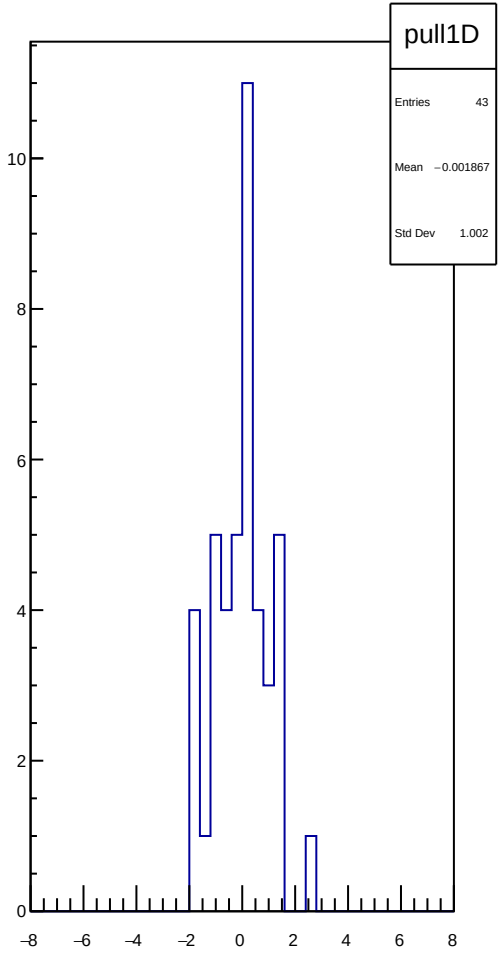

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 127.1 / 42
p0 −18.95 ± 0.06574
pull
Entries 43
Mean −335.4
Std Dev 358.5

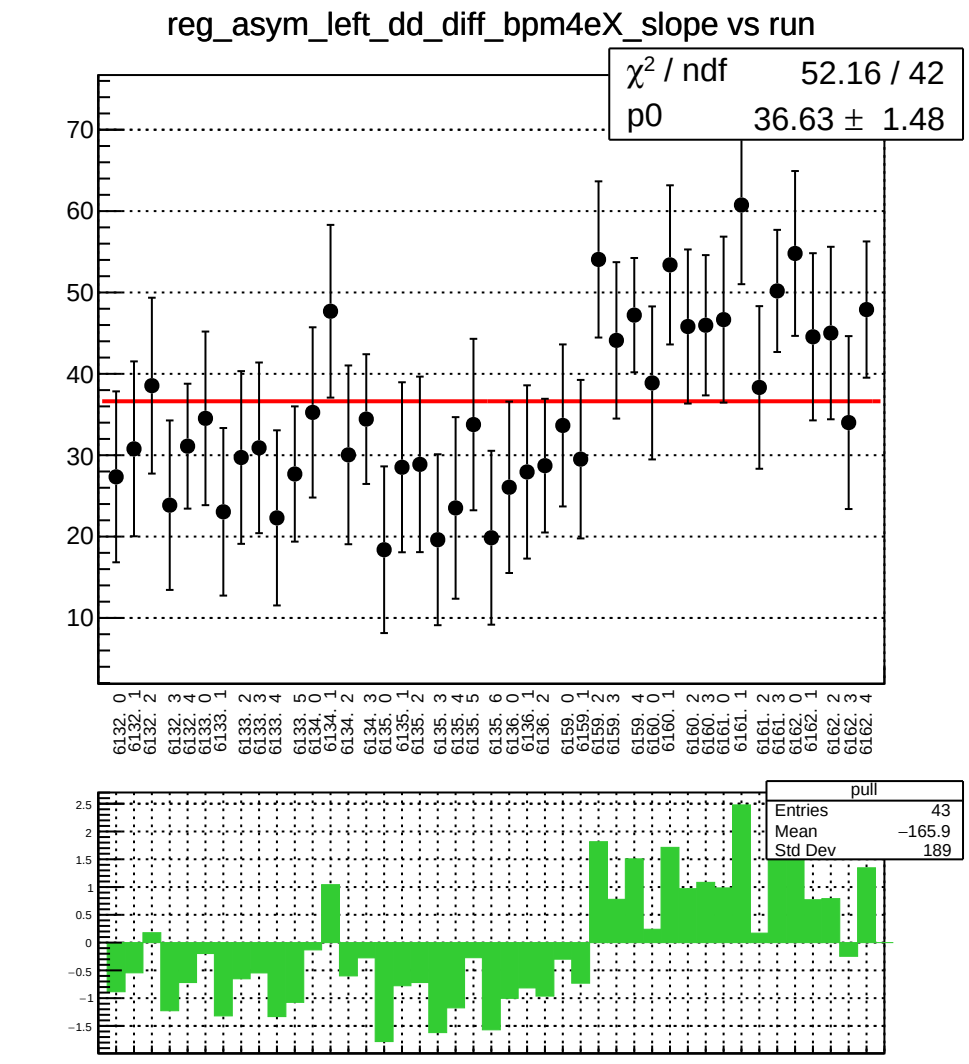

pull1D
Entries 43
Mean 0.04459
Std Dev 1.719

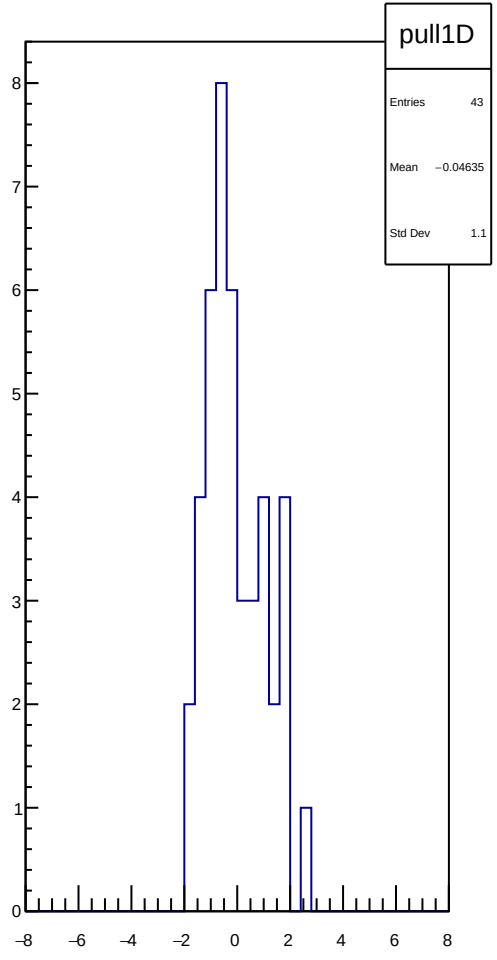

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 56.88 / 42
p0 −52.3 ± 1.27
−30
−40
−50
−60
−70
−80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −163.1
Std Dev 186.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

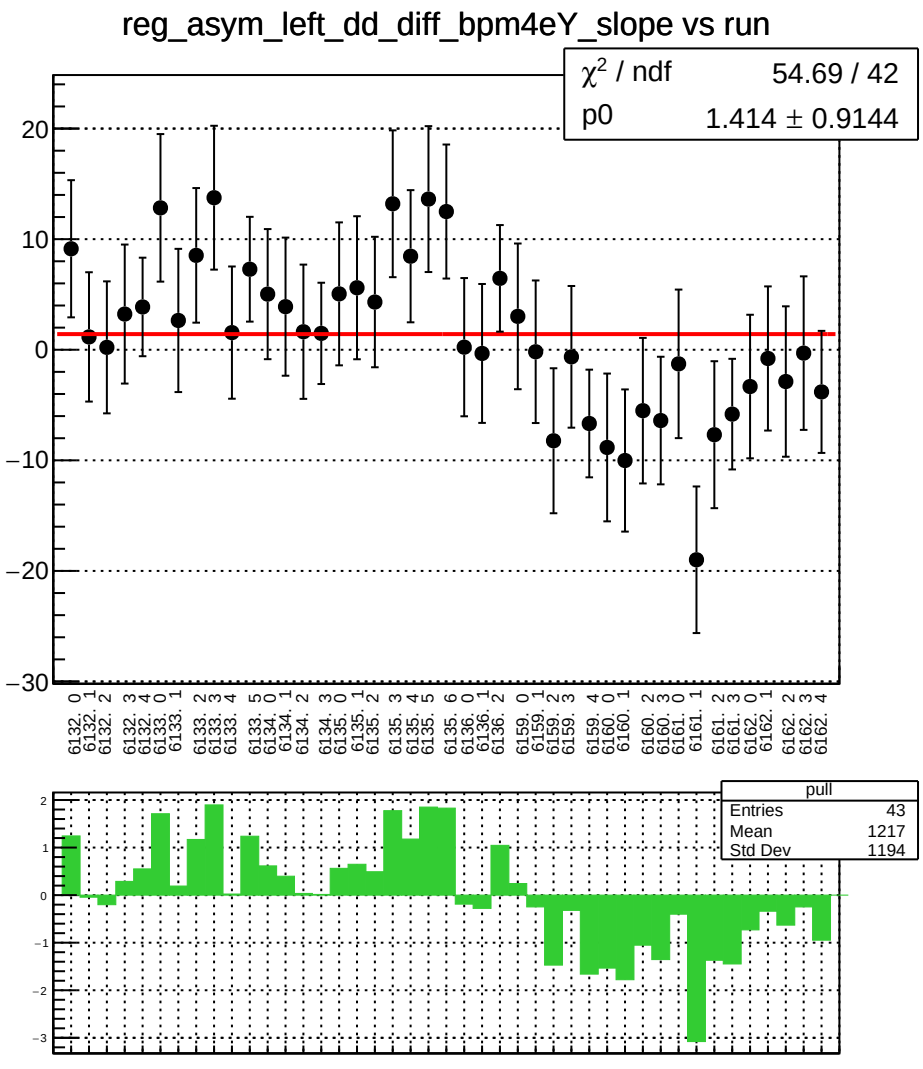

pull1D
Entries 43
Mean 0.0511
Std Dev 1.149
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

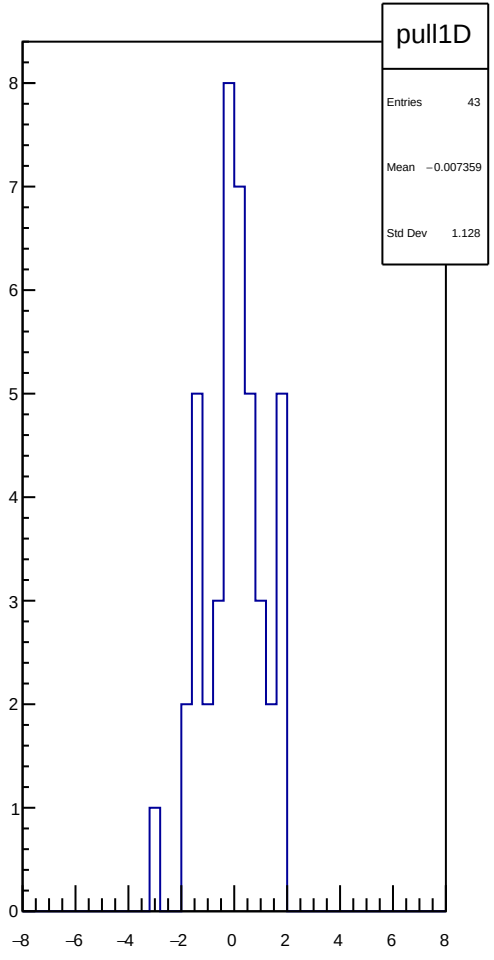

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 43.15 / 42
p0 7.442 ± 0.8601
pull
Entries 43
Mean −3858
Std Dev 3881

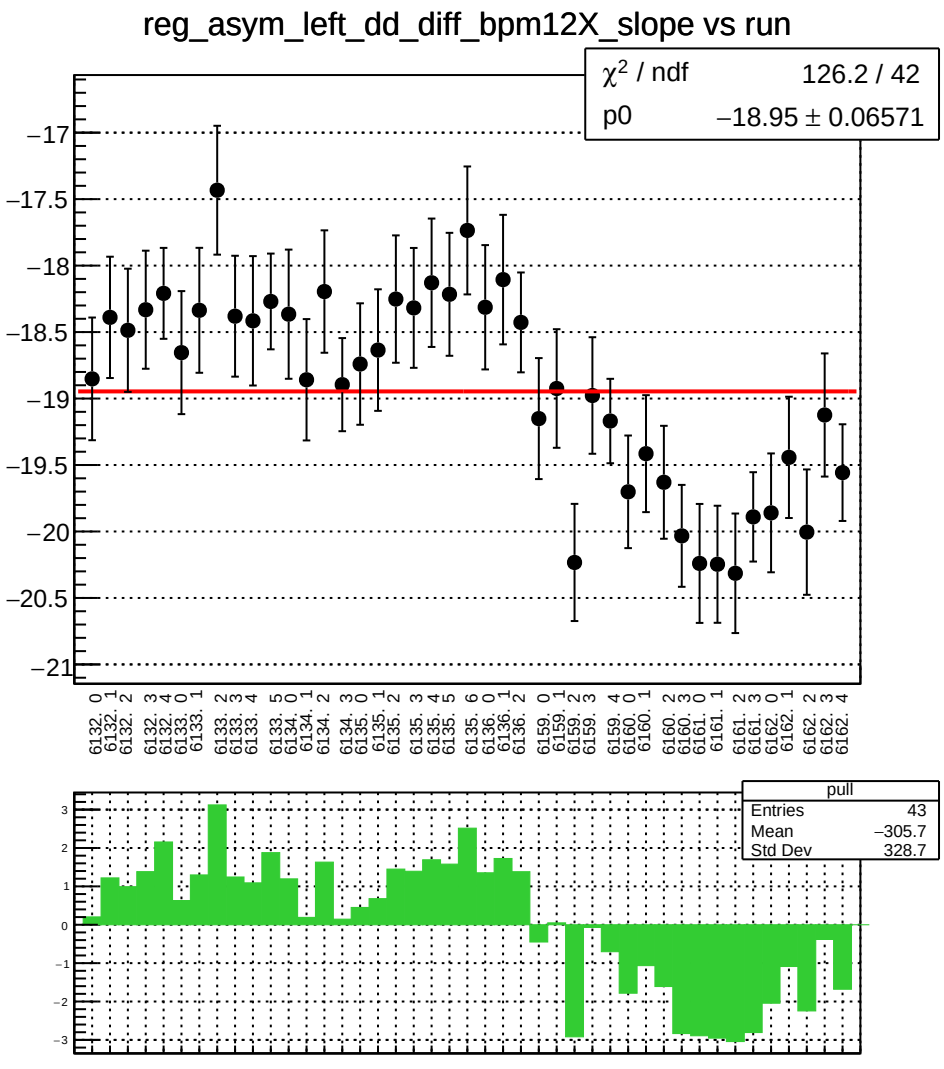

pull1D
Entries 43
Mean −0.001867
Std Dev 1.002

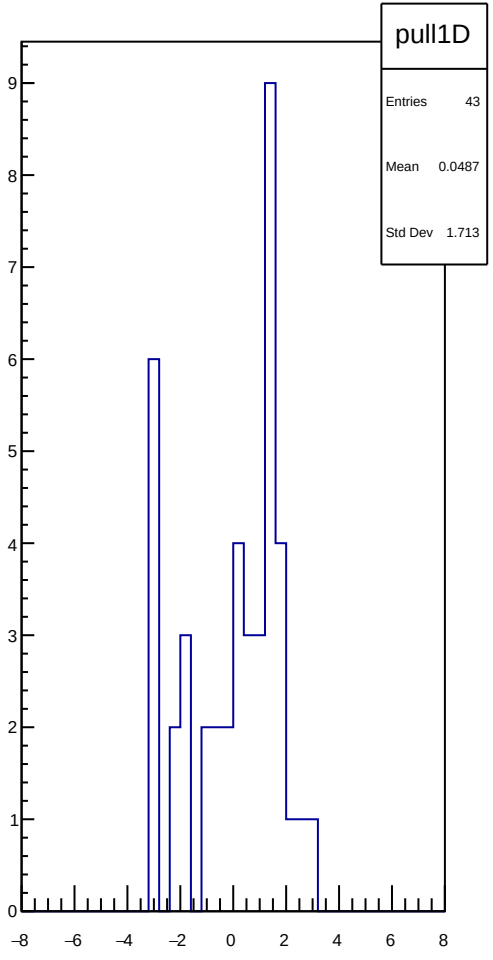

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 52.16 / 42
p0 36.63 ± 1.48
pull
Entries 43
Mean −165.9
Std Dev 189

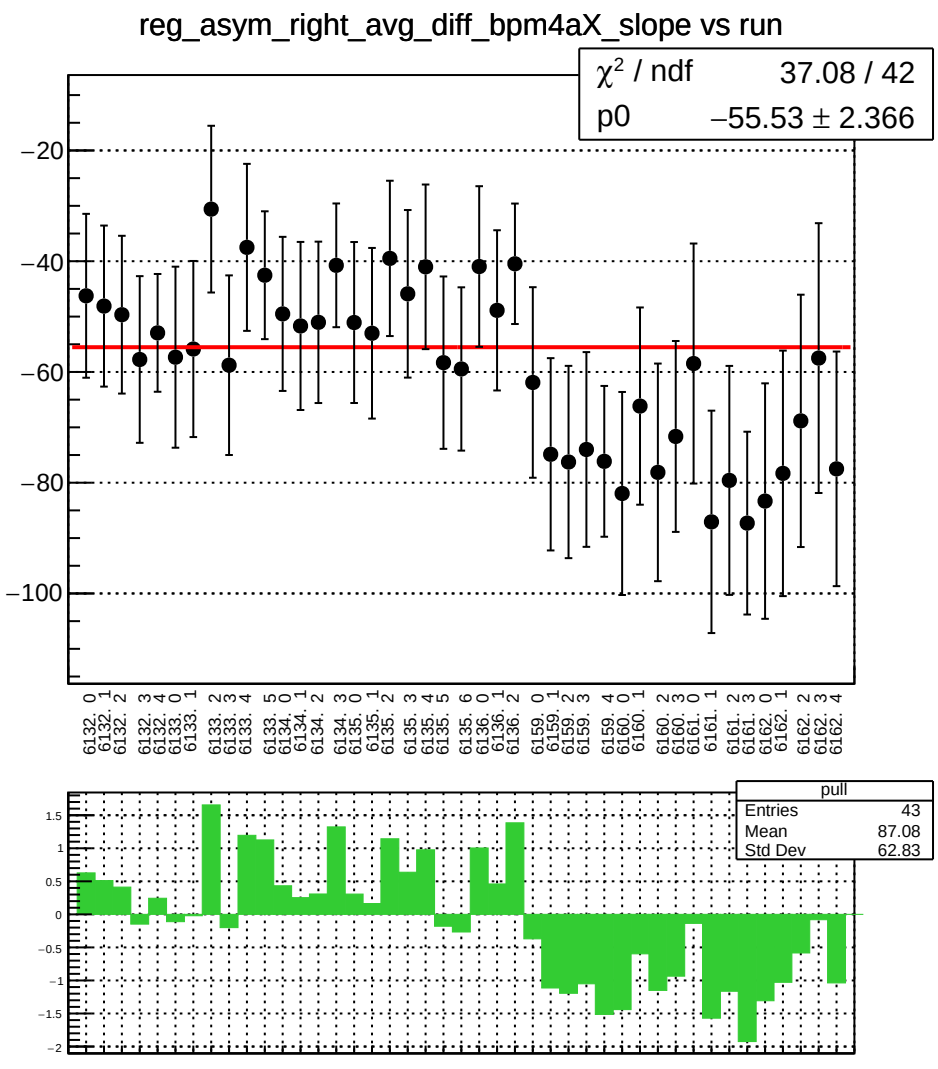

pull1D
Entries 43
Mean −0.04635
Std Dev 1.1

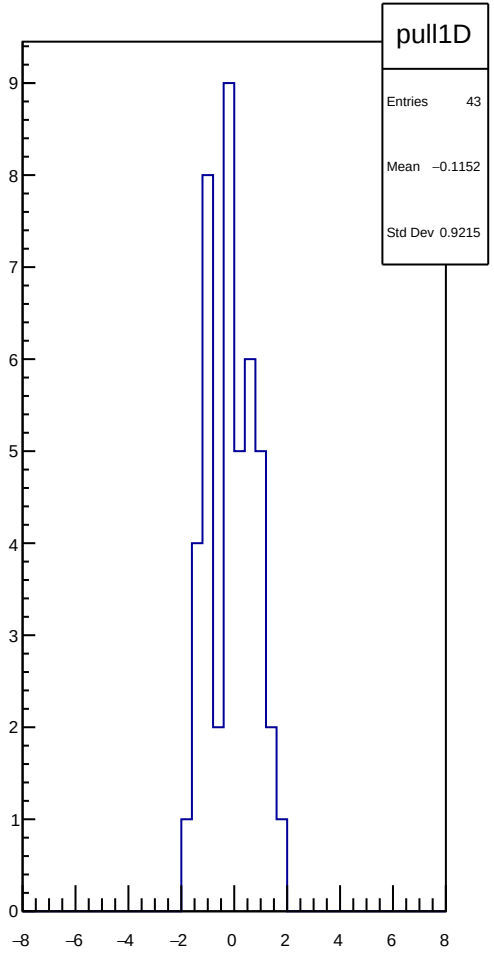

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 54.69 / 42
p0 1.414 ± 0.9144
pull
Entries 43
Mean 1217
Std Dev 1194

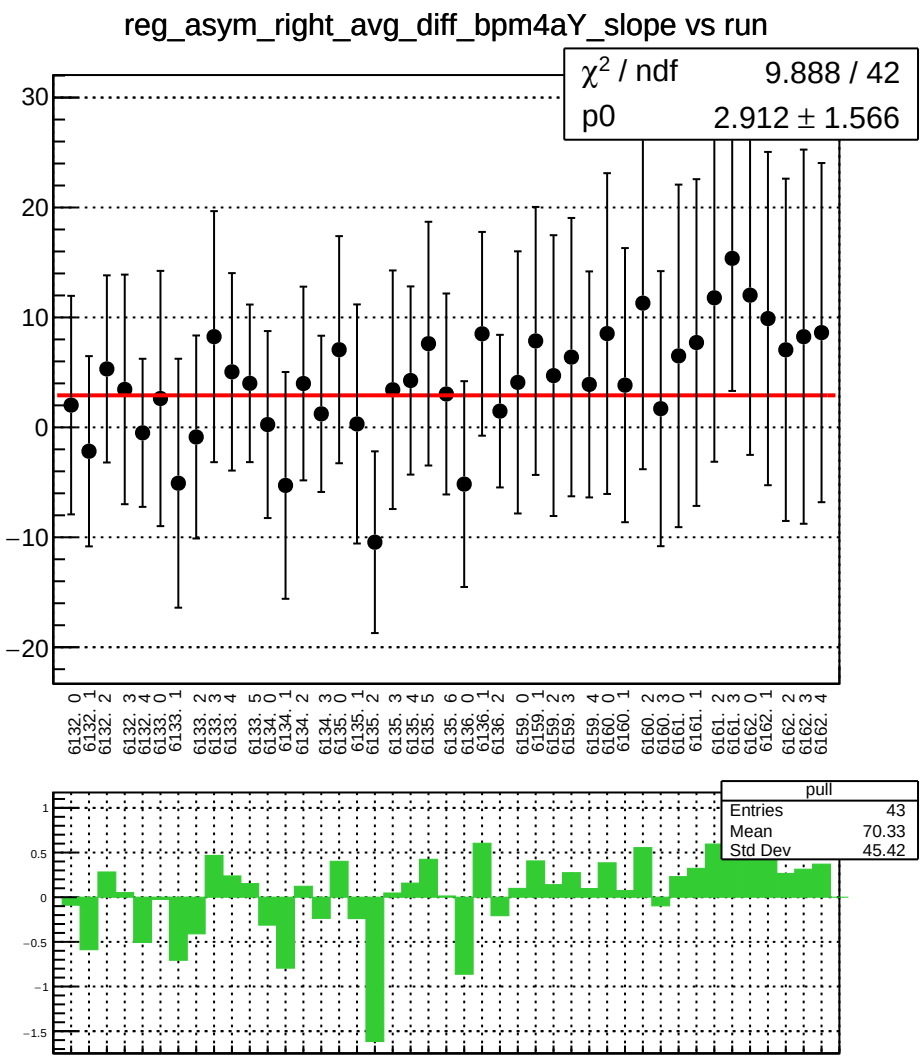

pull1D
Entries 43
Mean −0.007359
Std Dev 1.128

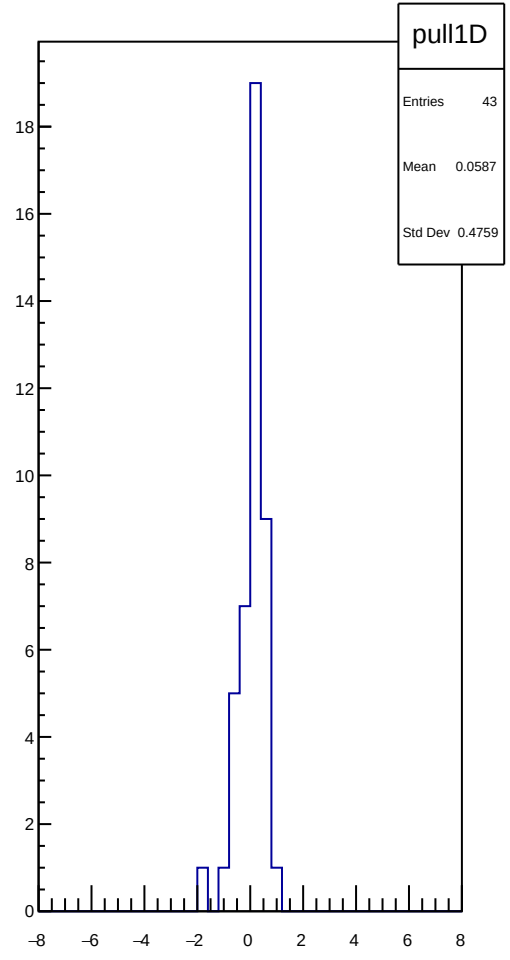

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 126.2 / 42
p0 −18.95 ± 0.06571
pull
Entries 43
Mean −305.7
Std Dev 328.7

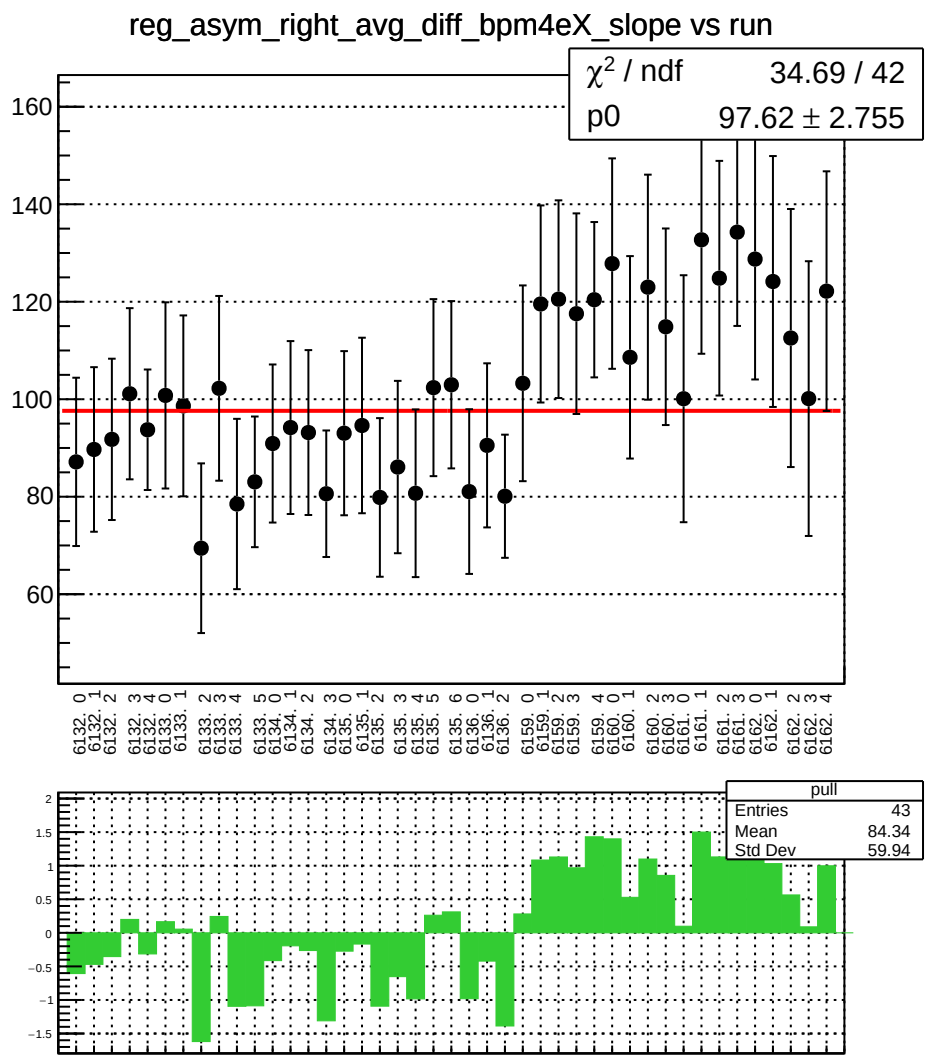

pull1D
Entries 43
Mean 0.0487
Std Dev 1.713

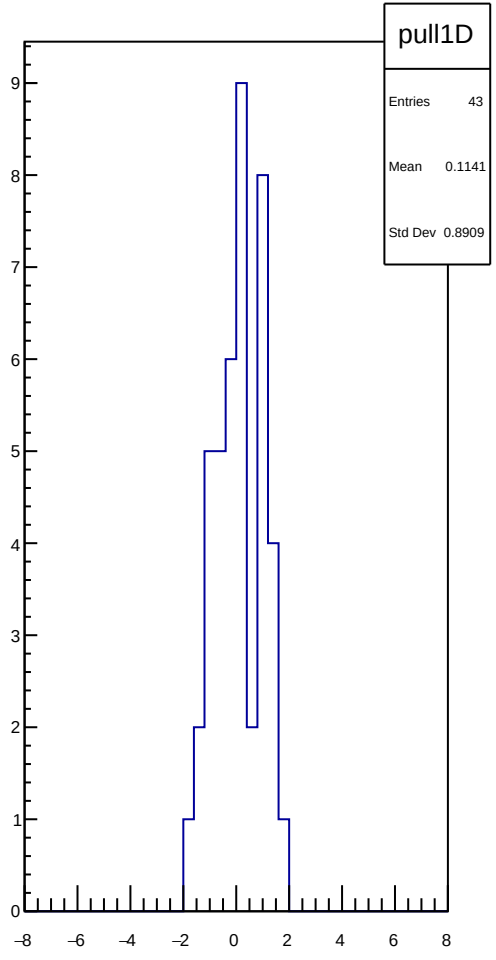

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 37.08 / 42
p0 −55.53 ± 2.366
−20
−40
−60
−80
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 87.08
Std Dev 62.83
1.5
1
0.5
0
−0.5
−1
−1.5
−2

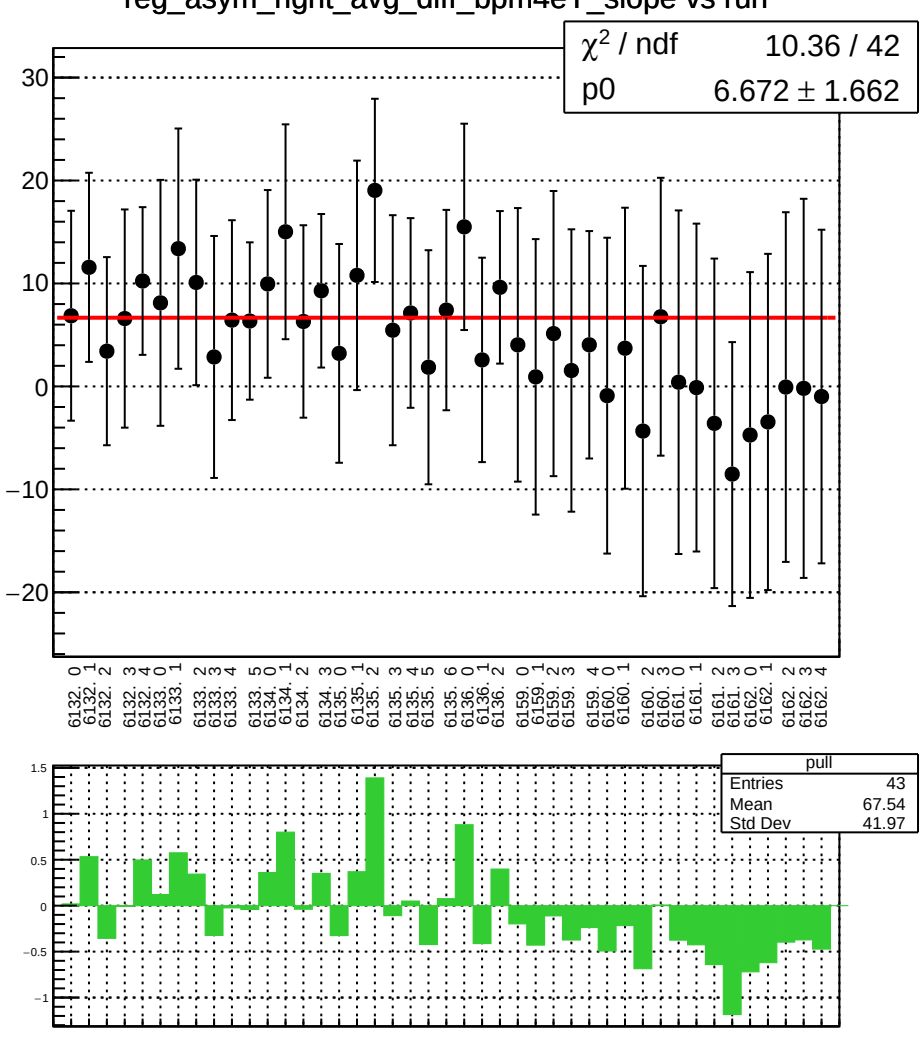

pull1D
Entries 43
Mean −0.1152
Std Dev 0.9215
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

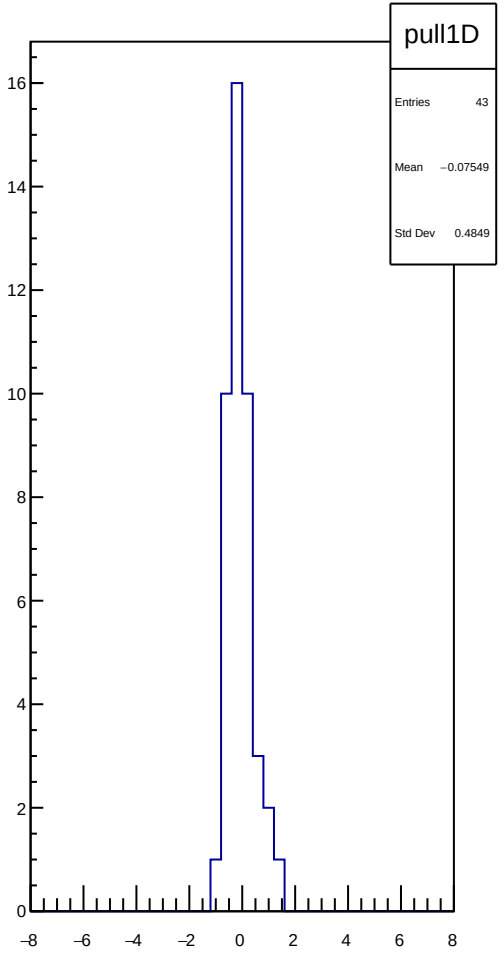

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.888 / 42
p0 2.912 ± 1.566
pull
Entries 43
Mean 70.33
Std Dev 45.42

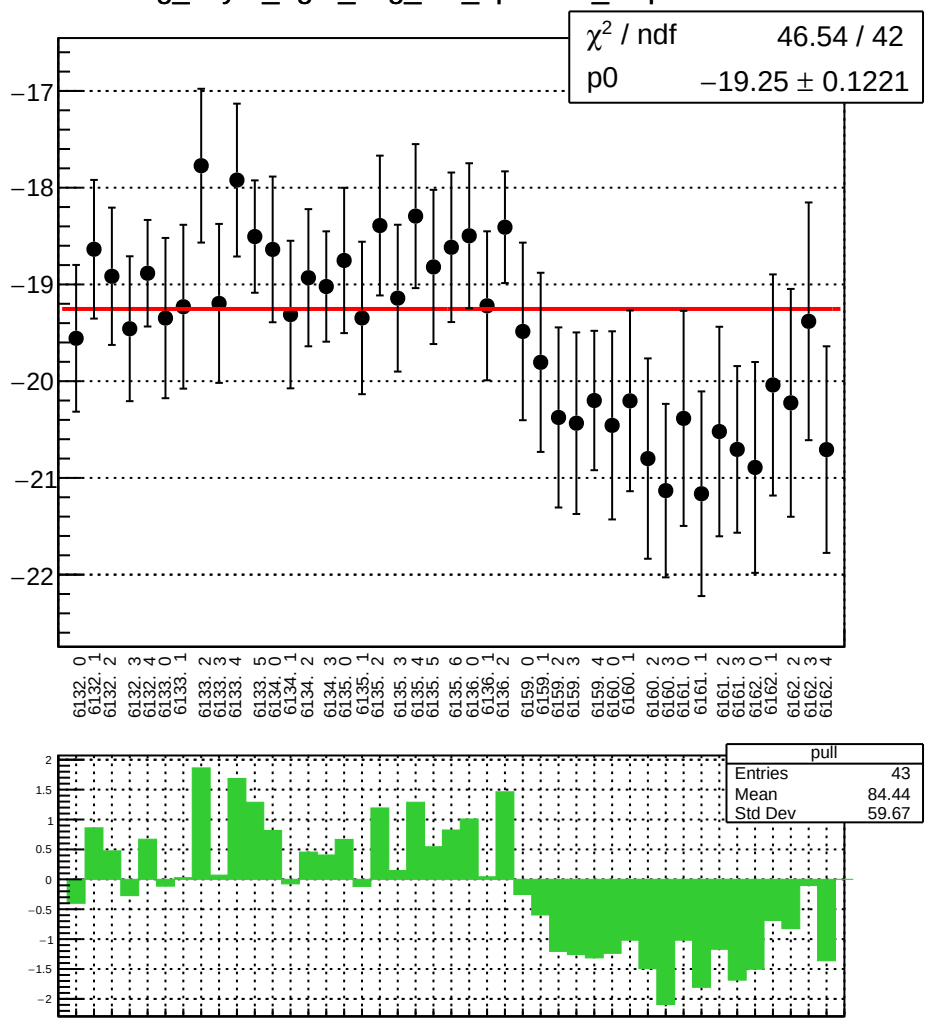

pull1D
Entries 43
Mean 0.0587
Std Dev 0.4759

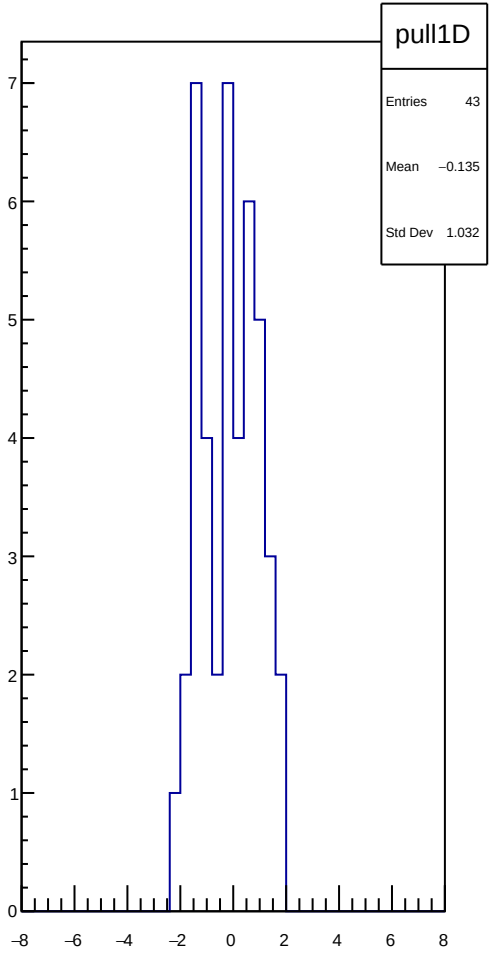

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 34.69 / 42
p0 97.62 ± 2.755
160
140
120
100
80
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 84.34
Std Dev 59.94
2
1.5
1
0.5
0
−0.5
−1
−1.5

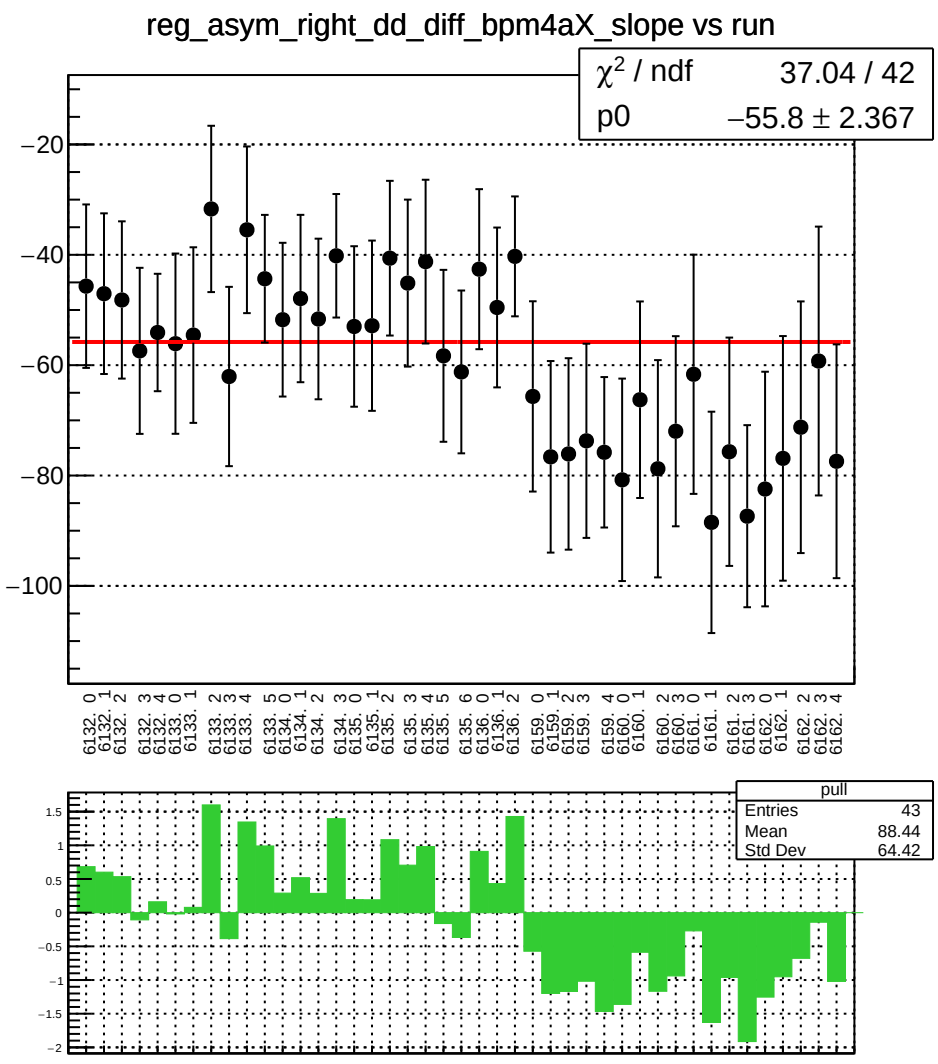

pull1D
Entries 43
Mean 0.1141
Std Dev 0.8909
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

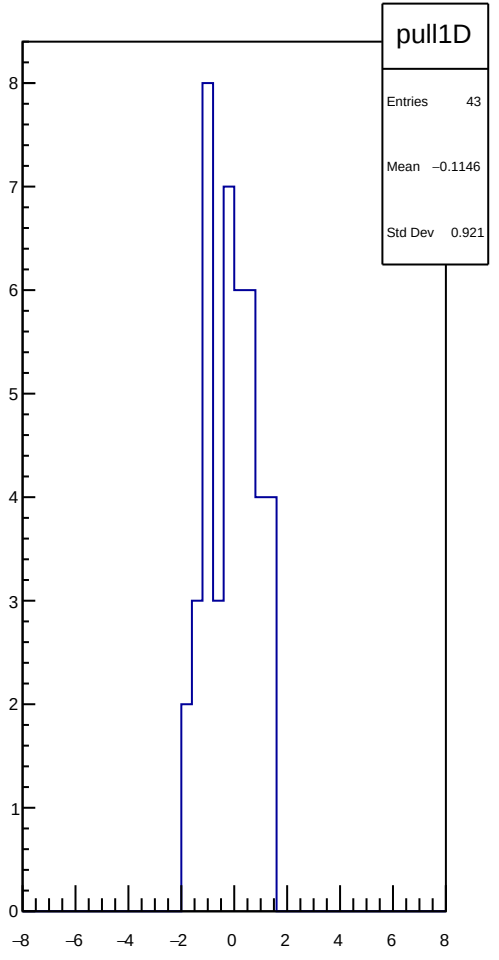

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.36 / 42
p0 6.672 ± 1.662
pull
Entries 43
Mean 67.54
Std Dev 41.97

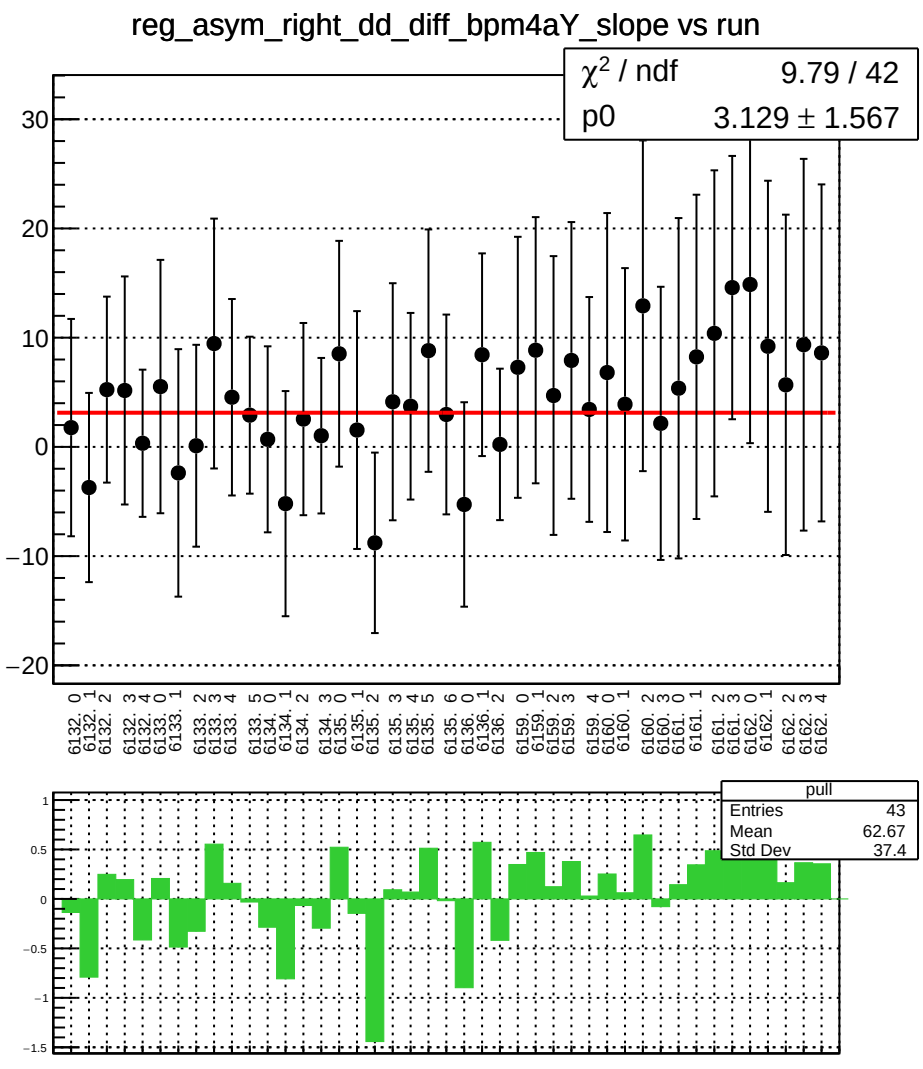

pull1D
Entries 43
Mean −0.07549
Std Dev 0.4849

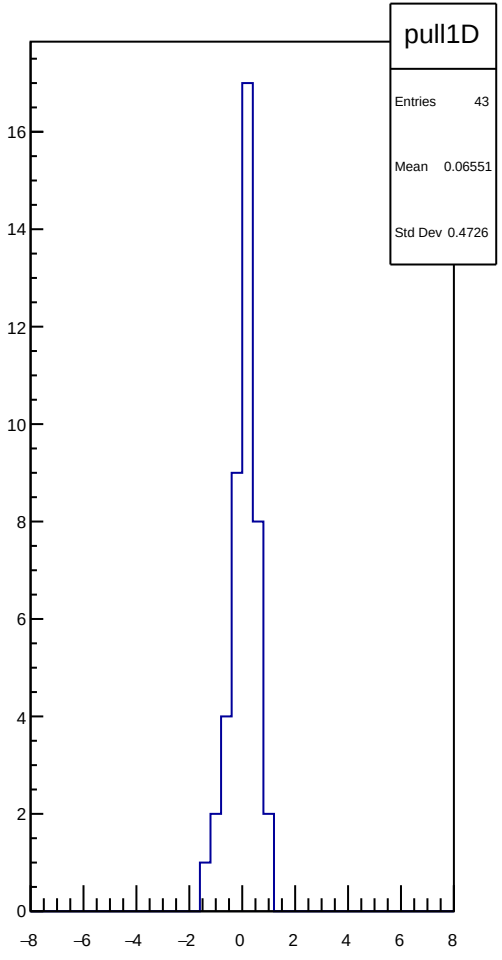

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 46.54 / 42
p0 −19.25 ± 0.1221
pull
Entries 43
Mean 84.44
Std Dev 59.67

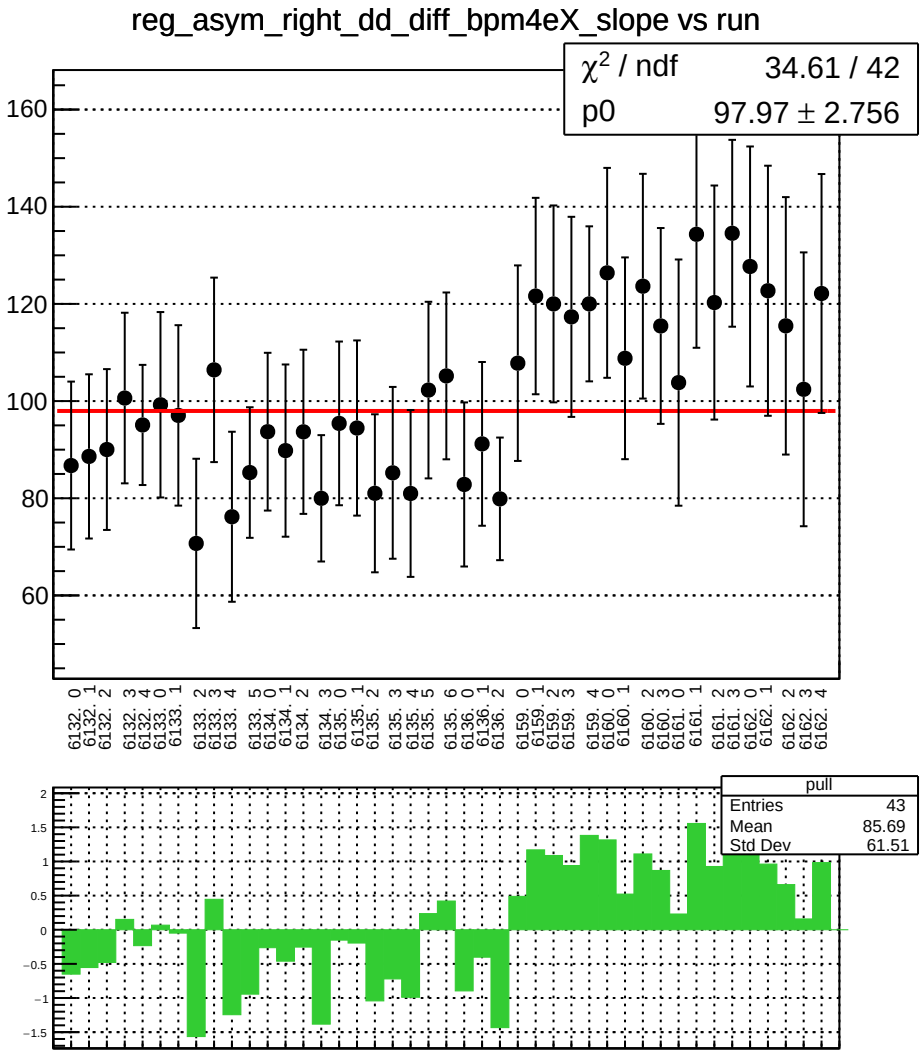

pull1D
Entries 43
Mean −0.135
Std Dev 1.032

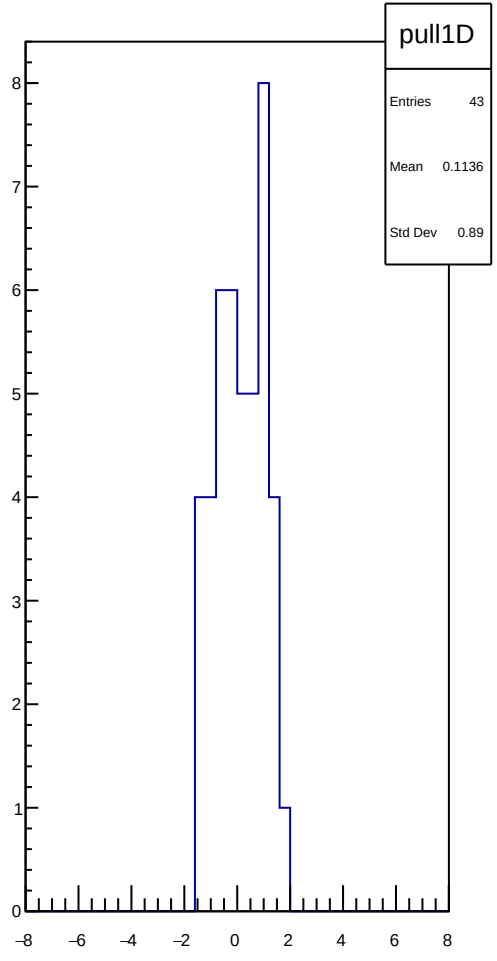

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 37.04 / 42
p0 −55.8 ± 2.367
−20
−40
−60
−80
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 88.44
Std Dev 64.42
1.5
1
0.5
0
−0.5
−1
−1.5
−2

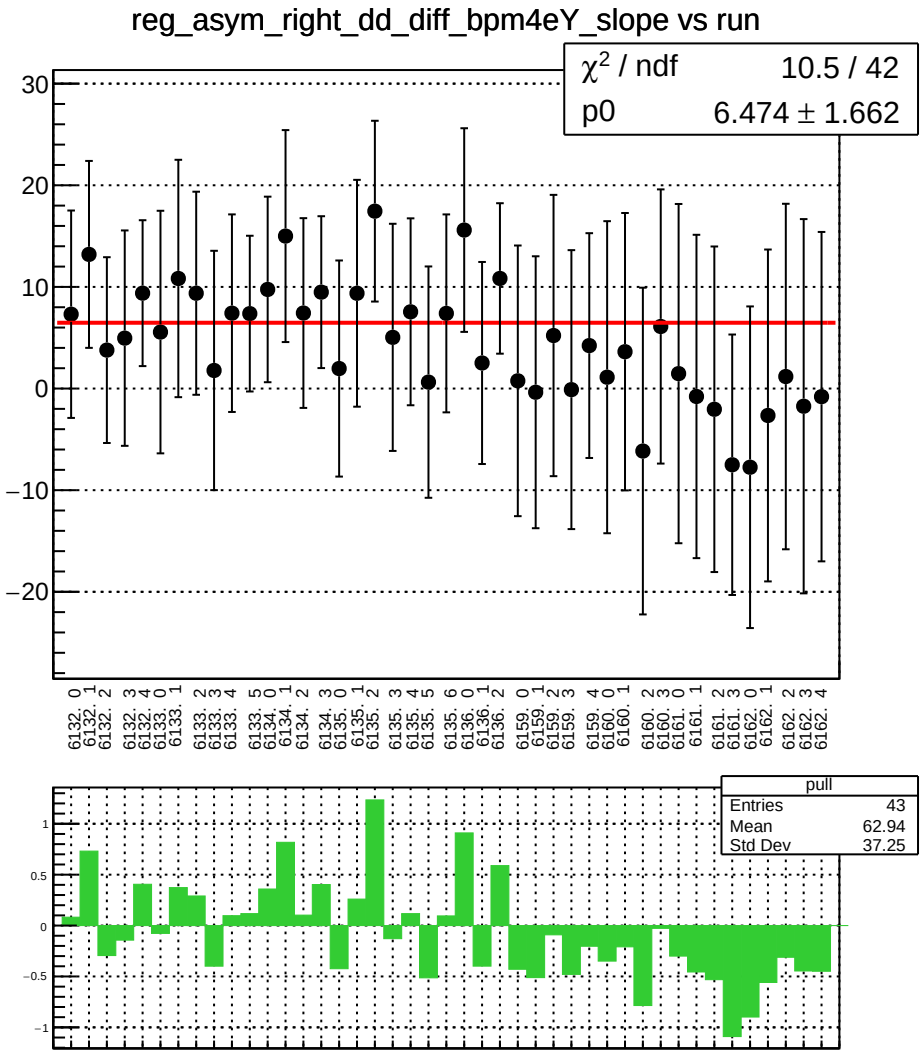

pull1D
Entries 43
Mean −0.1146
Std Dev 0.921
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

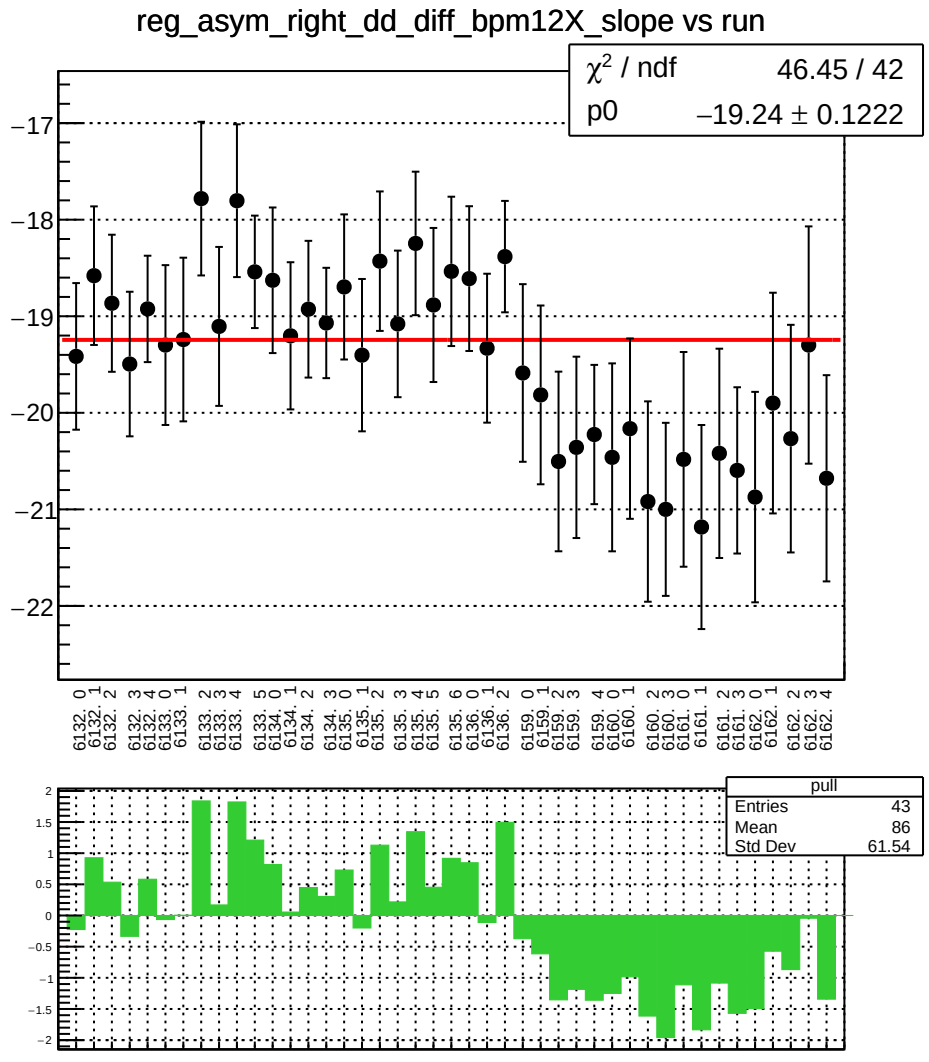

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.79 / 42
p0 3.129 ± 1.567
pull
Entries 43
Mean 62.67
Std Dev 37.4

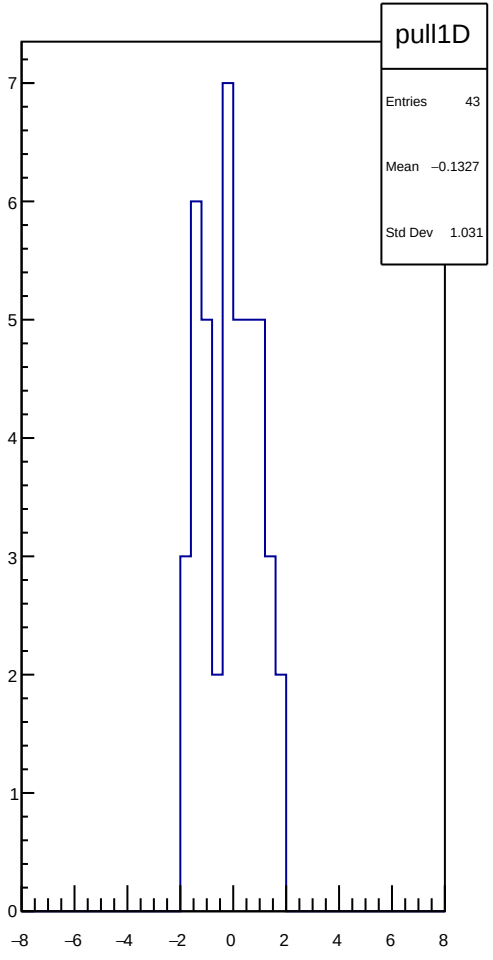

pull1D
Entries 43
Mean 0.06551
Std Dev 0.4726

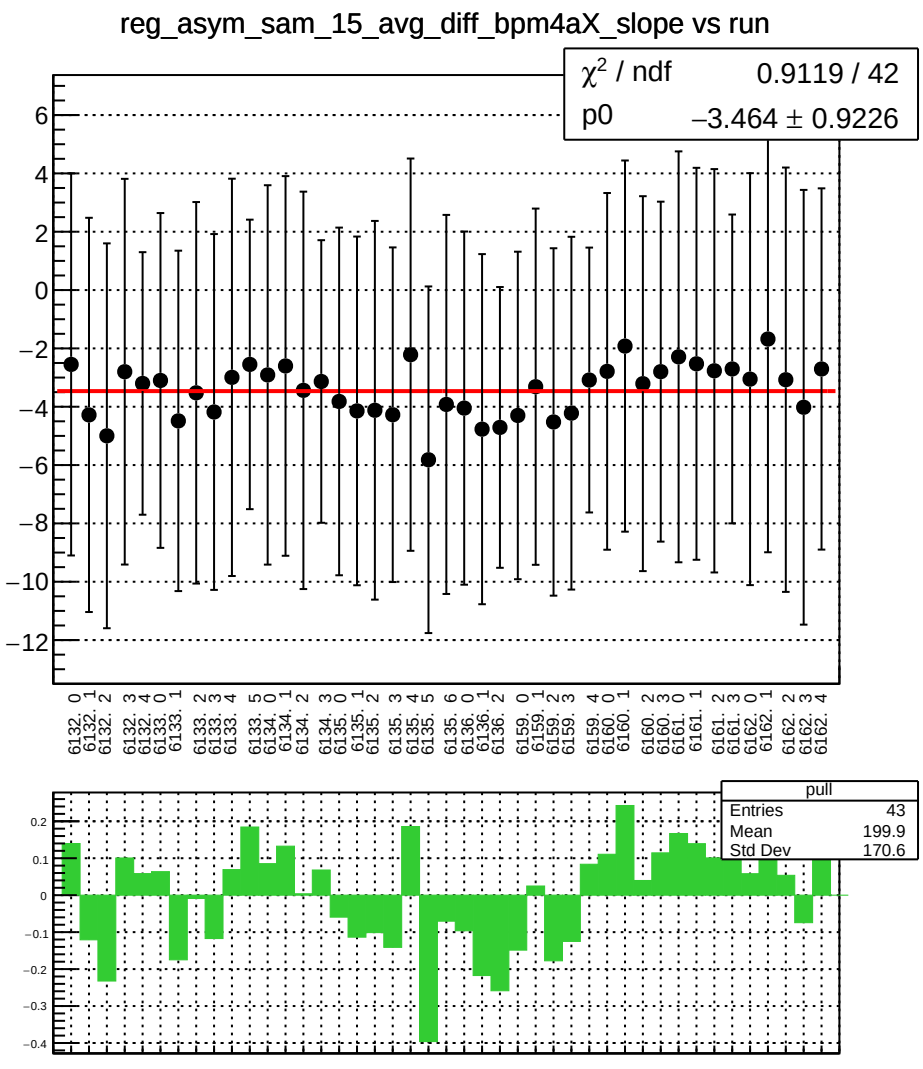

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.61 / 42
p0 97.97 ± 2.756
160
140
120
100
80
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 85.69
Std Dev 61.51
2
1.5
1
0.5
0
−0.5
−1
−1.5

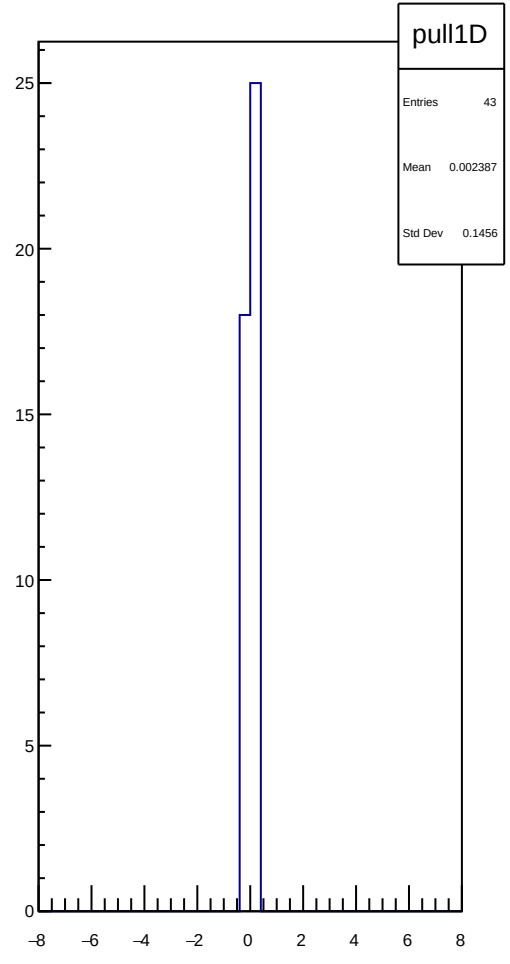

pull1D
Entries 43
Mean 0.1136
Std Dev 0.89
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

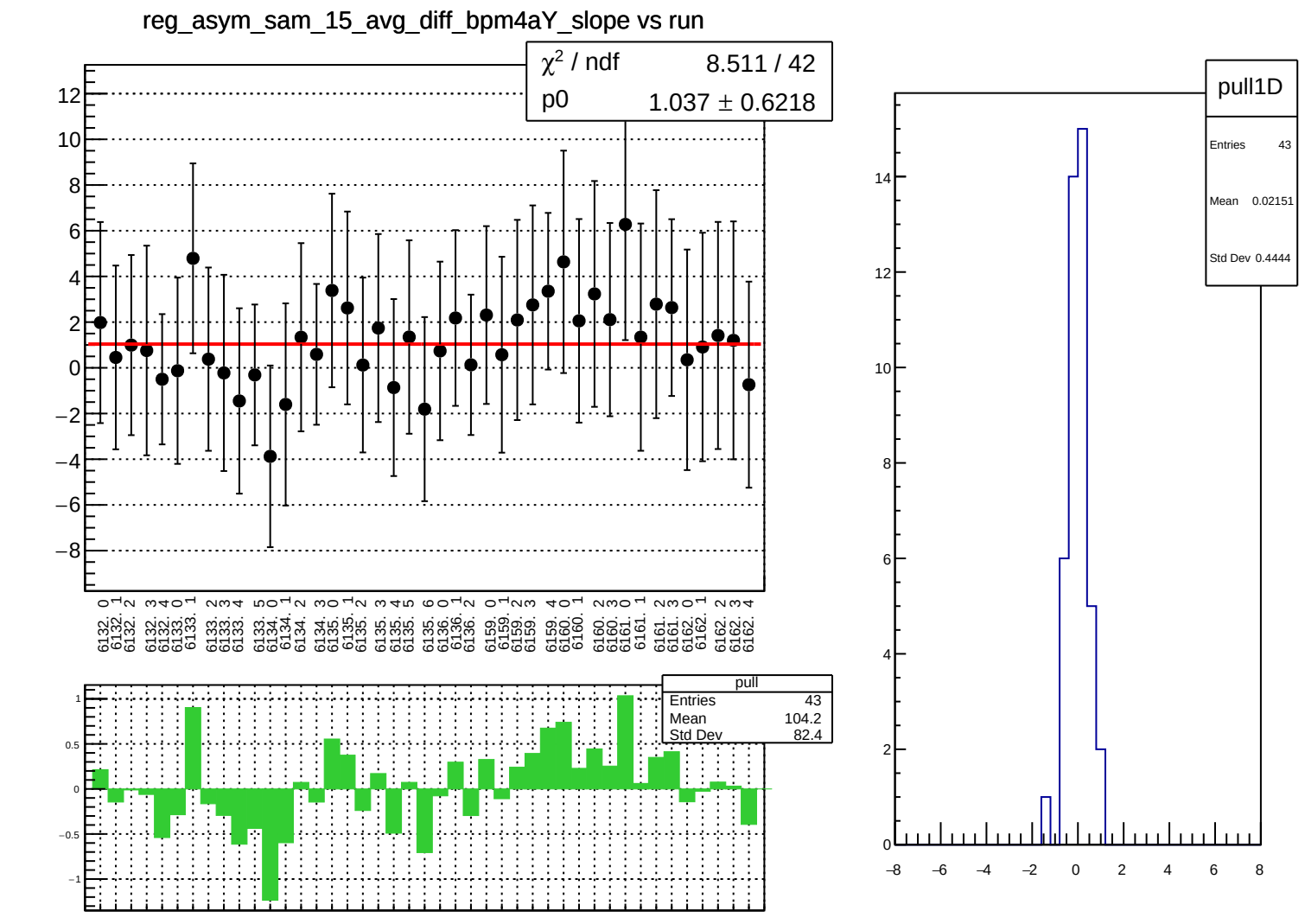

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.5 / 42
p0 6.474 ± 1.662
30
20
10
0
−10
−20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 62.94
Std Dev 37.25
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.08184
Std Dev 0.4873
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

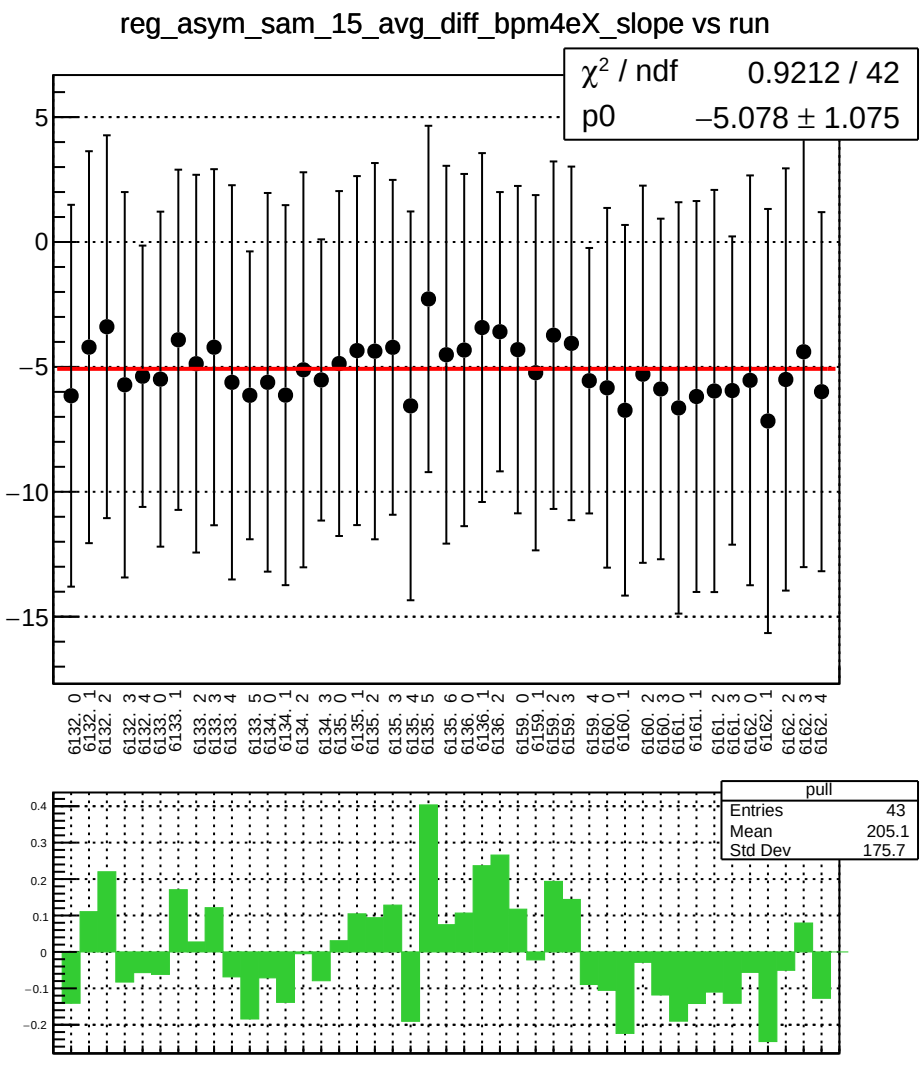

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 46.45 / 42
p0 −19.24 ± 0.1222
pull
Entries 43
Mean 86
Std Dev 61.54

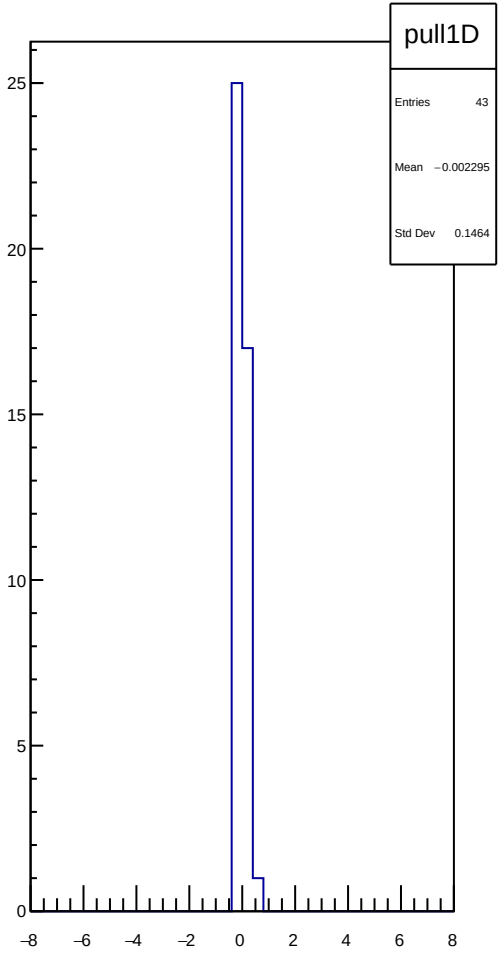

pull1D
Entries 43
Mean −0.1327
Std Dev 1.031

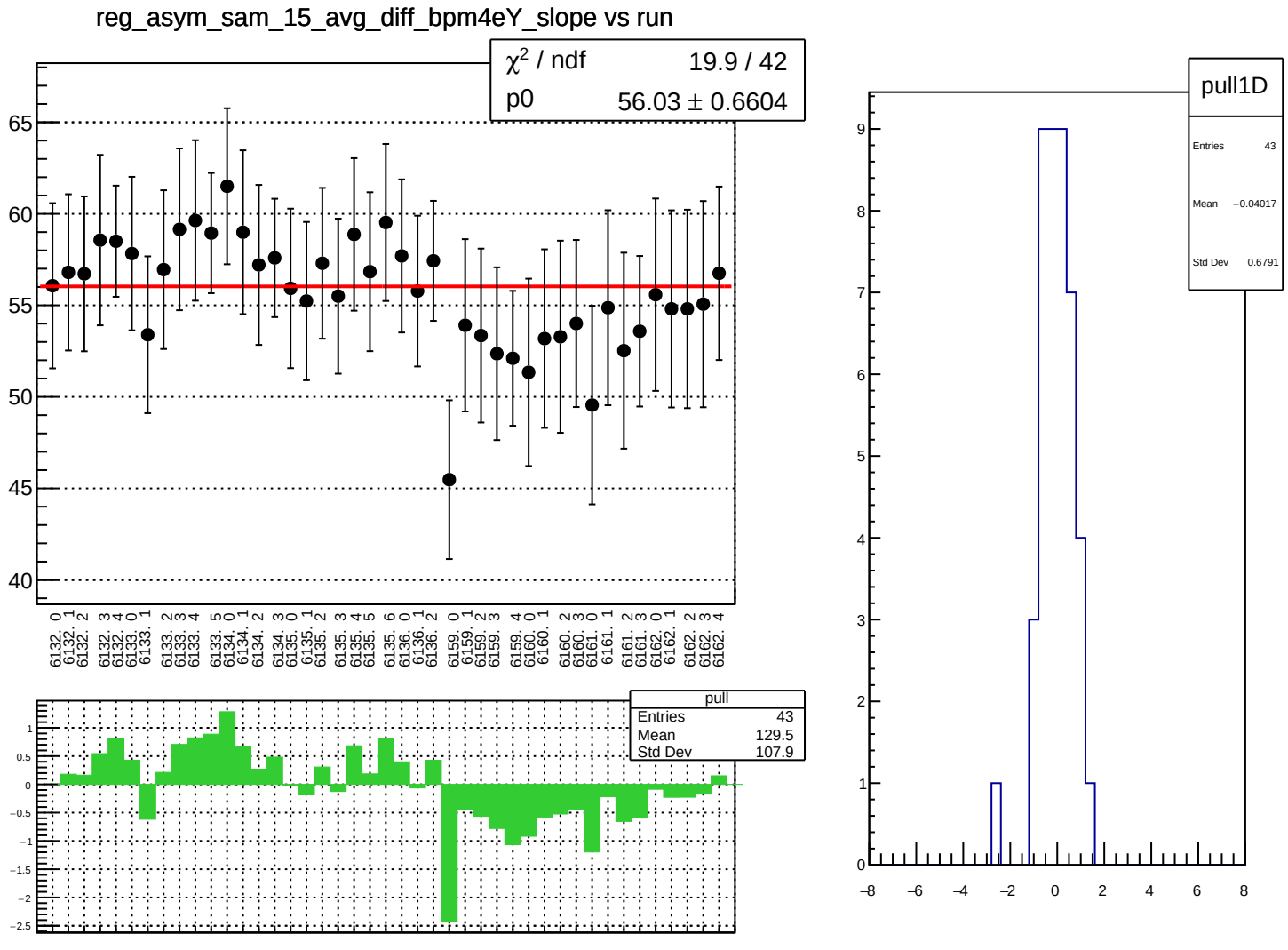

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.9119 / 42
p0 −3.464 ± 0.9226
pull
Entries 43
Mean 199.9
Std Dev 170.6

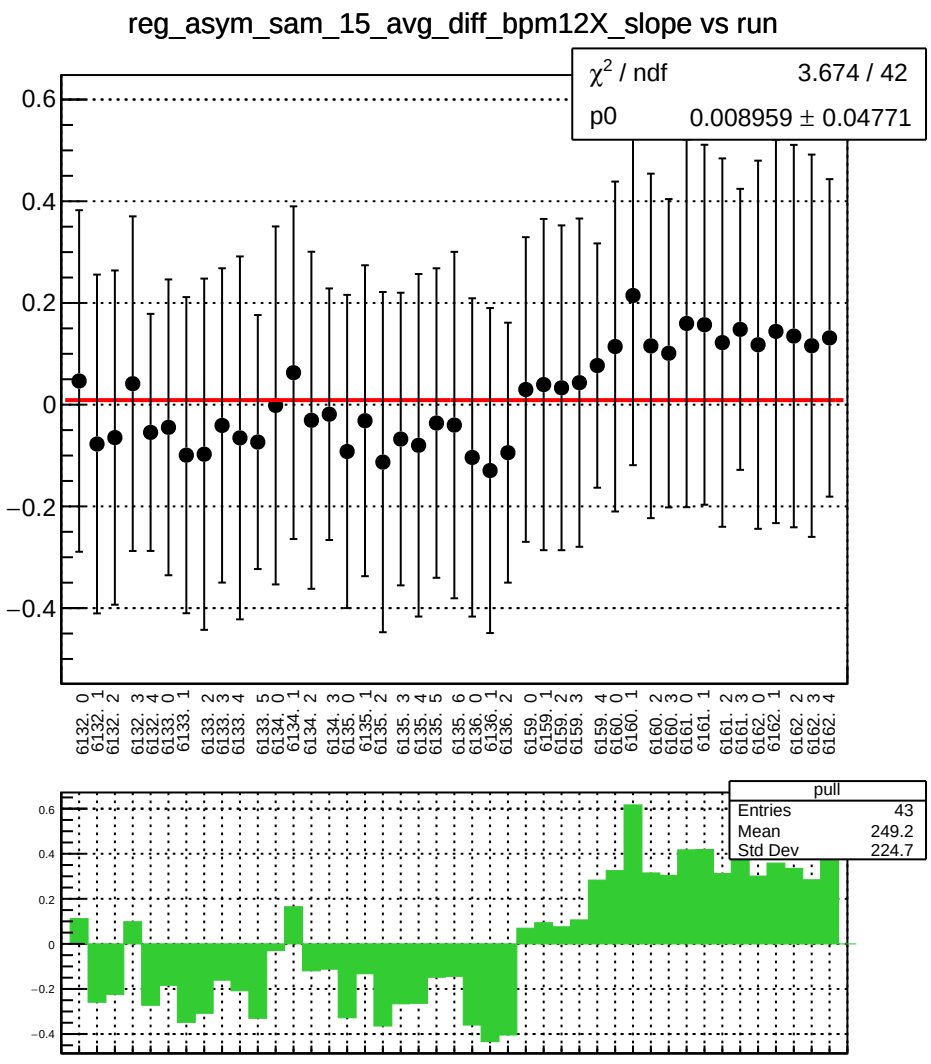

pull1D
Entries 43
Mean 0.002387
Std Dev 0.1456

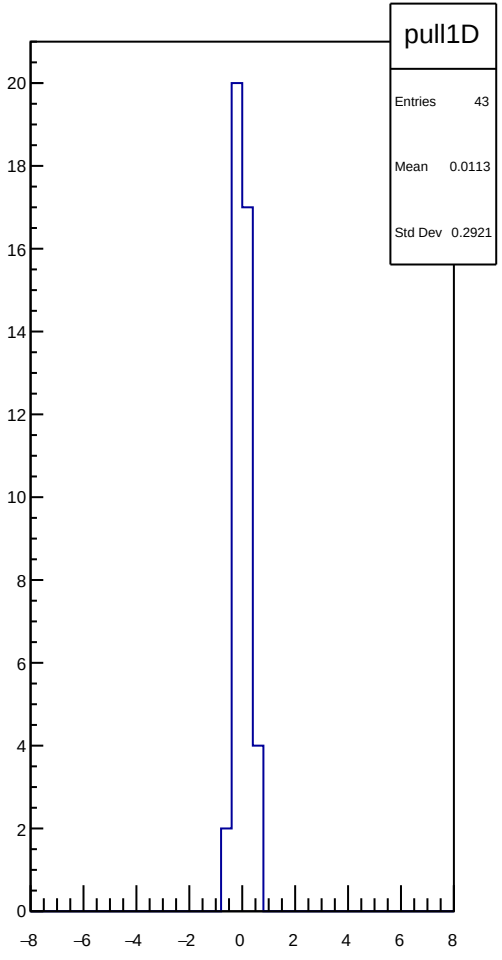

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.511 / 42
p0 1.037 ± 0.6218
pull
Entries 43
Mean 104.2
Std Dev 82.4
pull1D
Entries 43
Mean 0.02151
Std Dev 0.4444

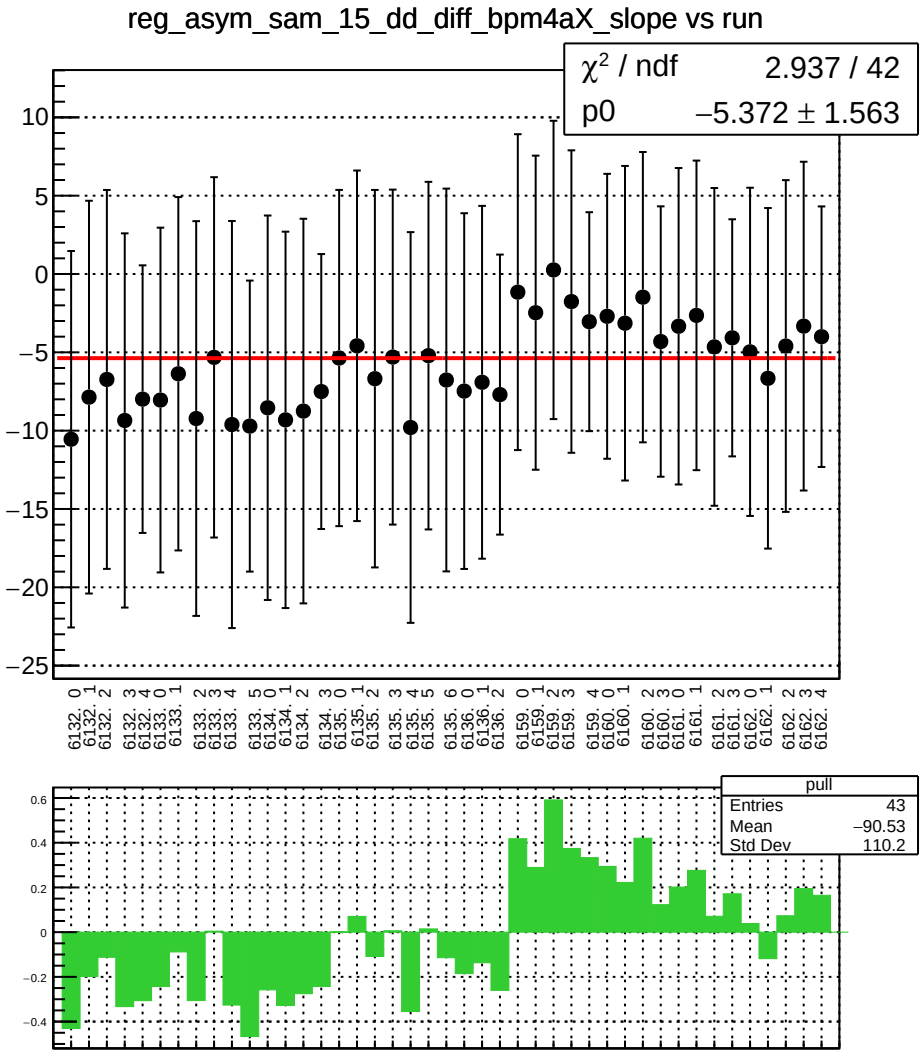

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.9212 / 42
p0 −5.078 ± 1.075
5
0
−5
−10
−15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 205.1
Std Dev 175.7
0.4
0.3
0.2
0.1
0
−0.1
−0.2

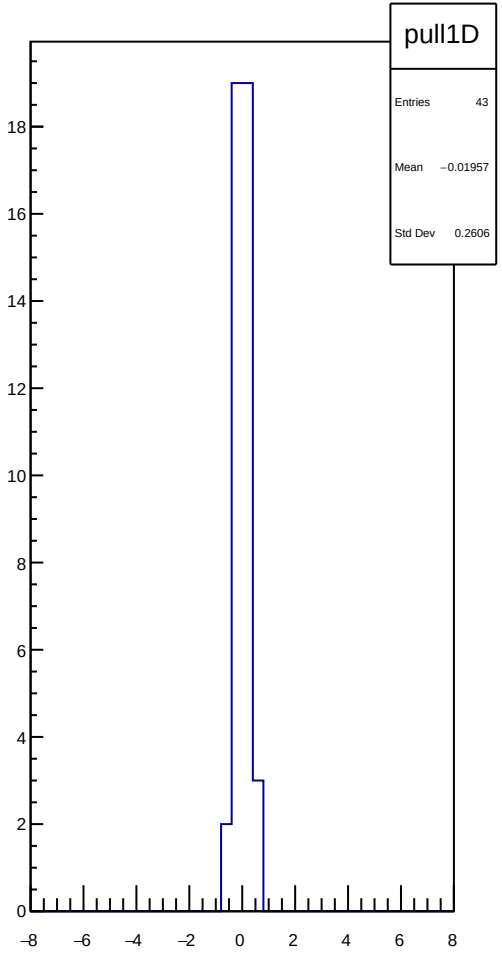

pull1D
Entries 43
Mean −0.002295
Std Dev 0.1464
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

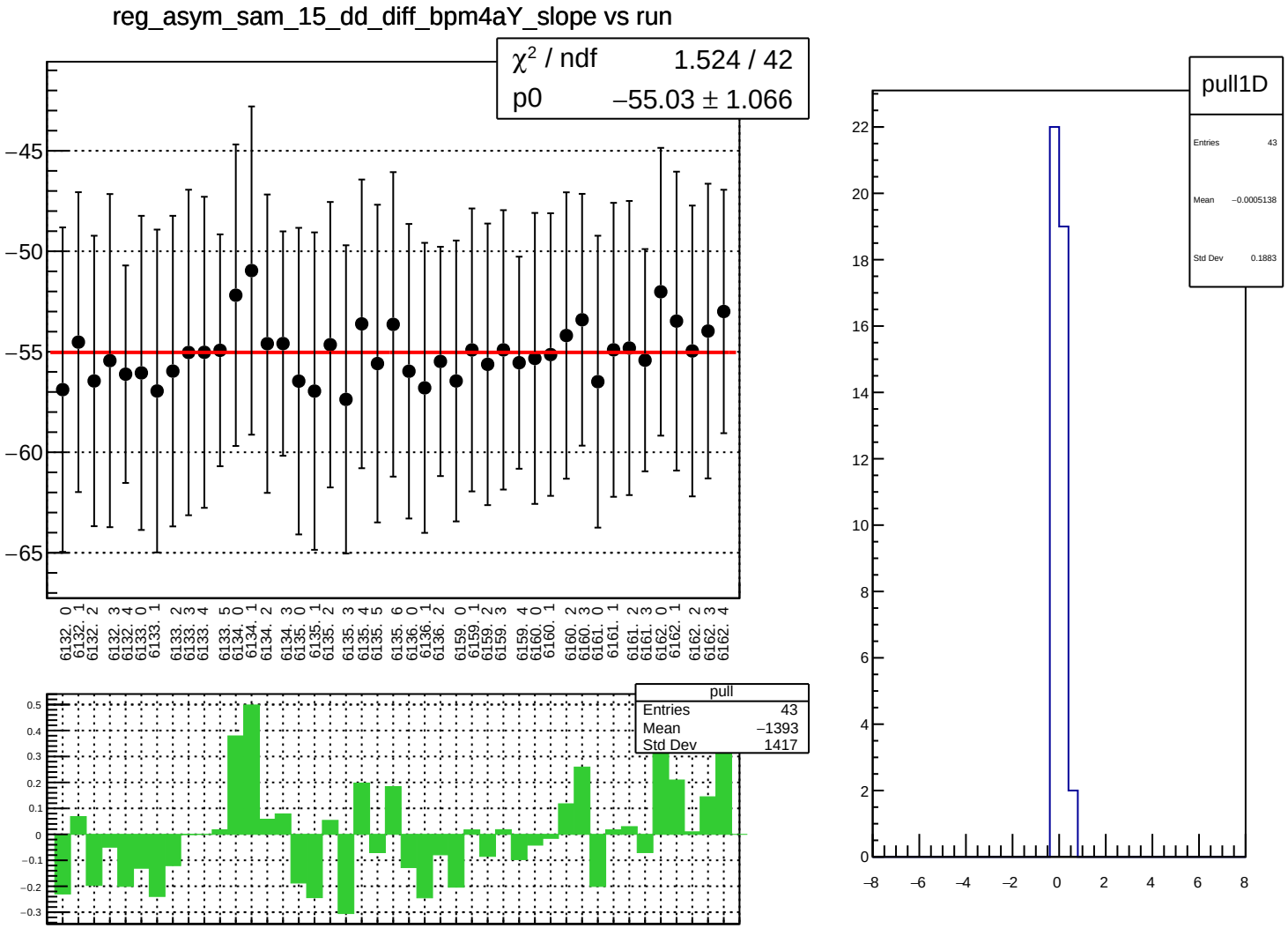

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.9 / 42
p0 56.03 ± 0.6604
65
60
55
50
45
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 129.5
Std Dev 107.9
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.04017
Std Dev 0.6791
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

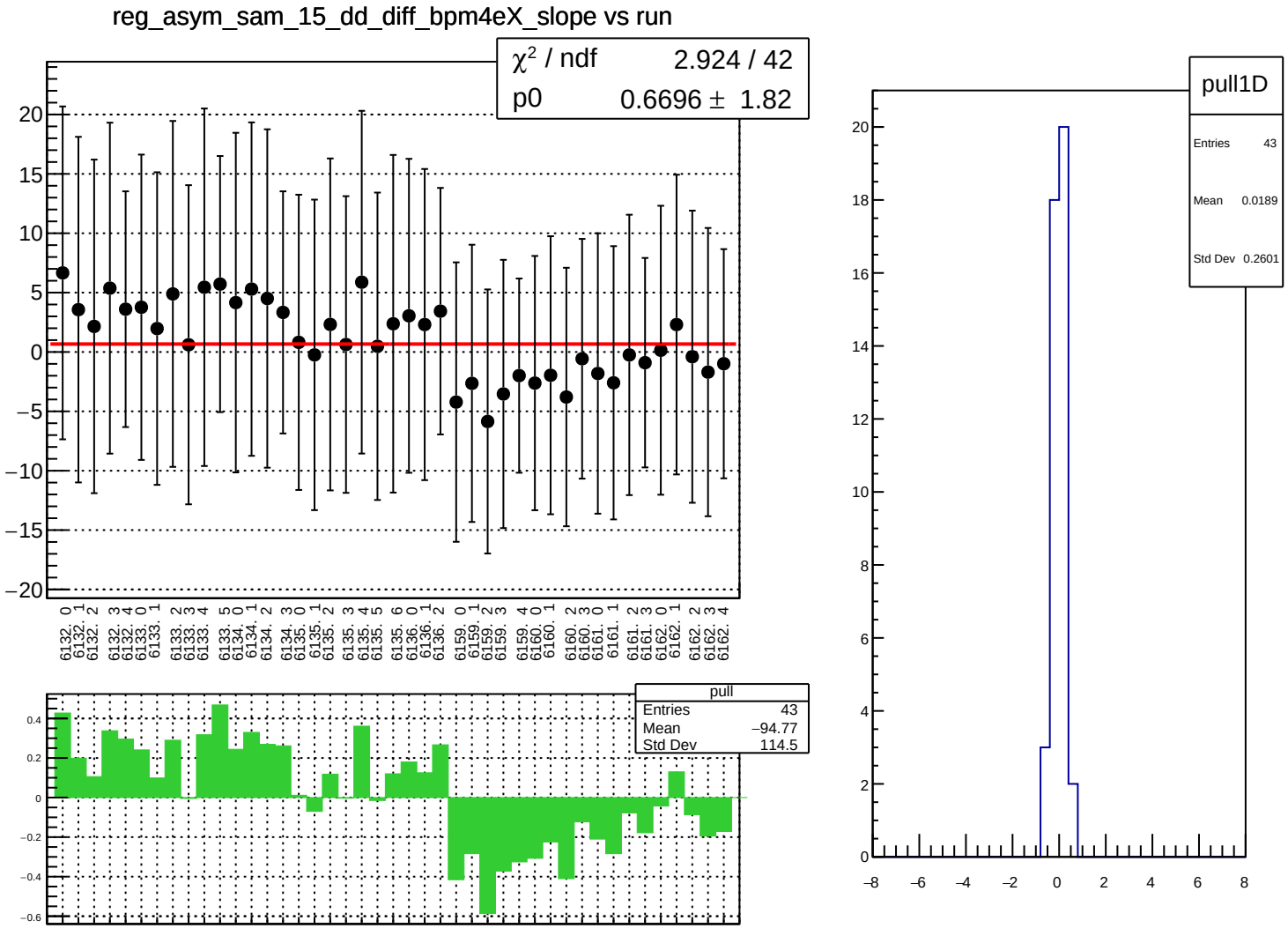

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 3.674 / 42
p0 0.008959 ± 0.04771
pull
Entries 43
Mean 249.2
Std Dev 224.7

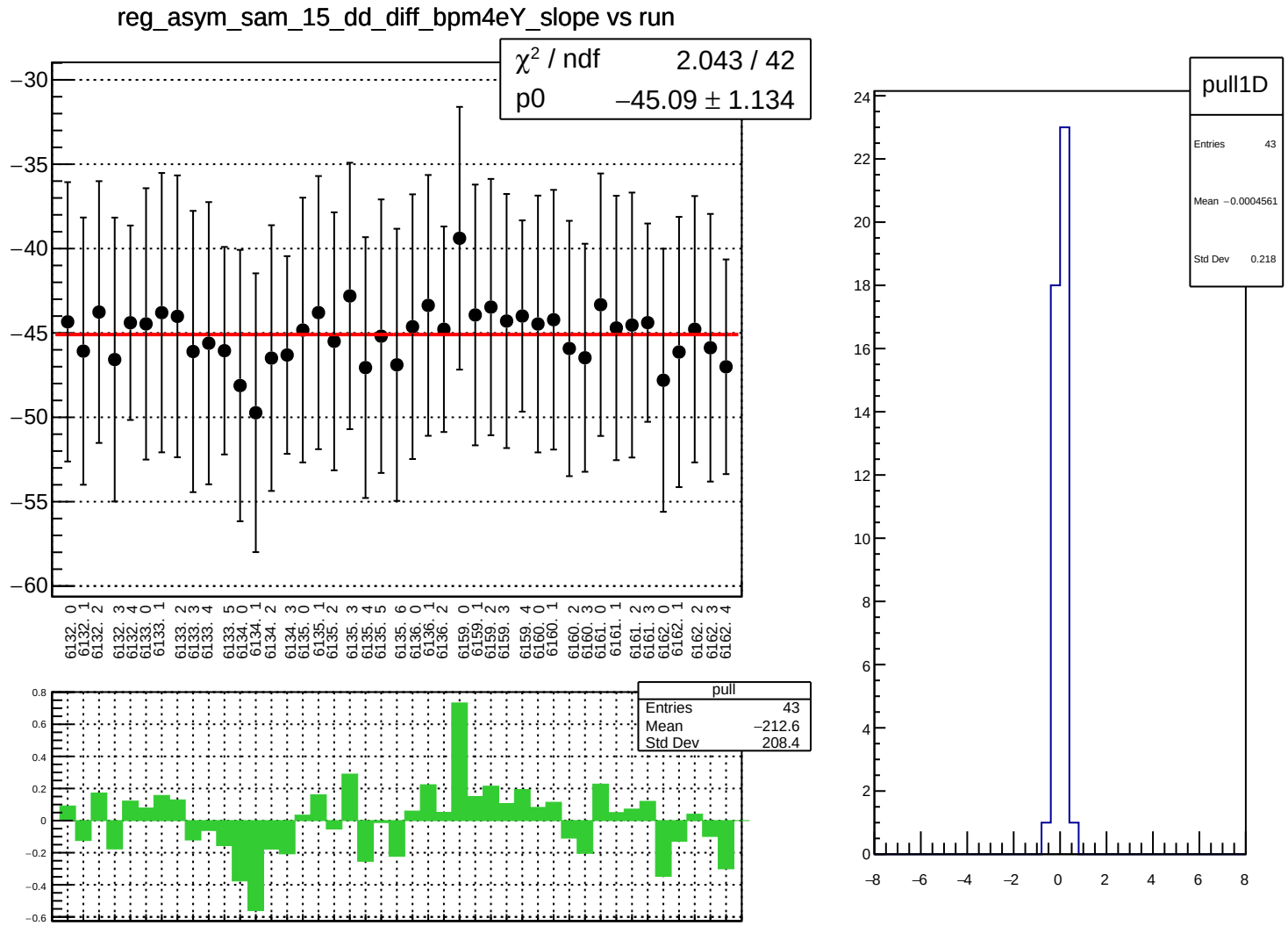

pull1D
Entries 43
Mean 0.0113
Std Dev 0.2921

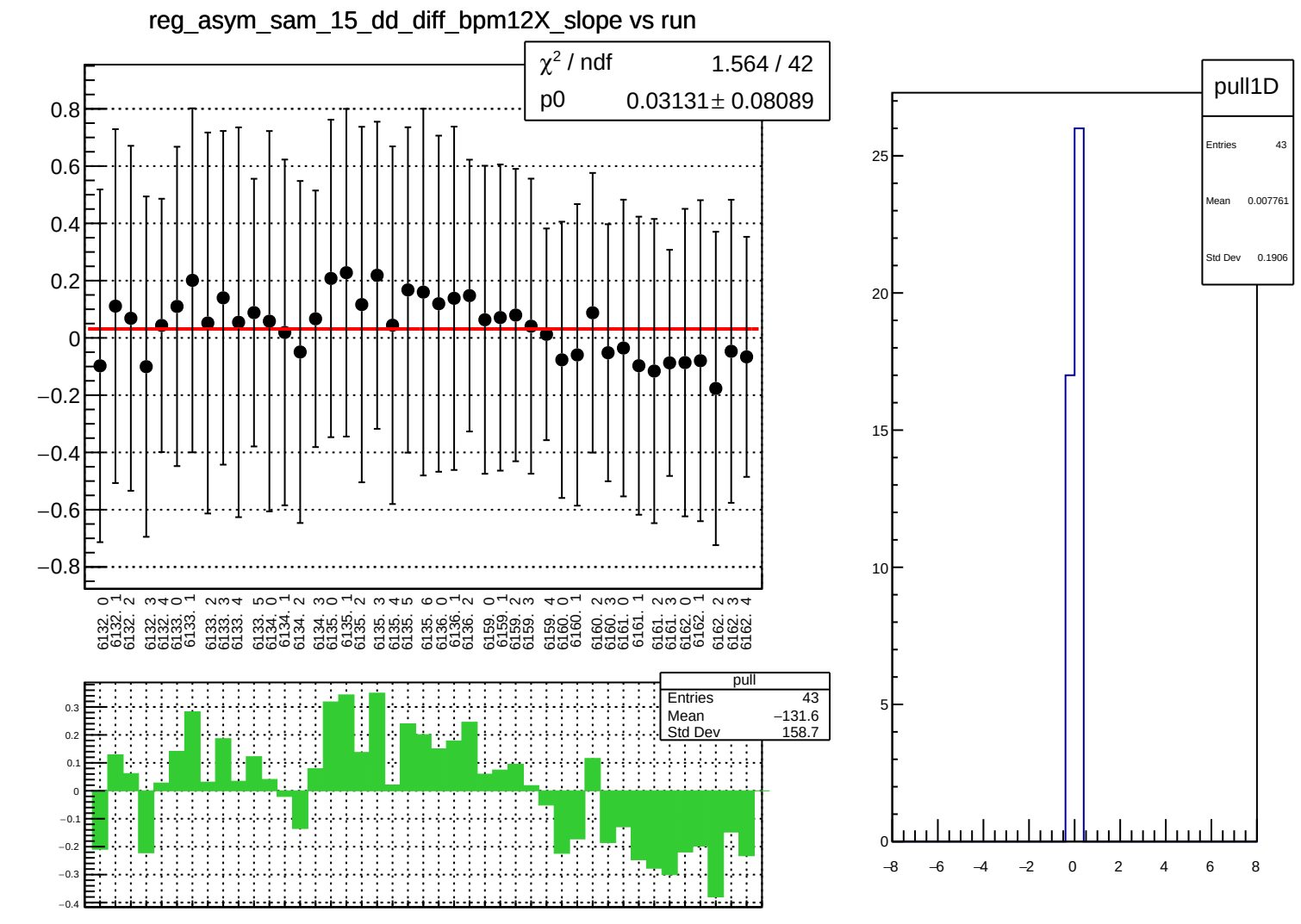

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.937 / 42
p0 −5.372 ± 1.563
pull
Entries 43
Mean −90.53
Std Dev 110.2

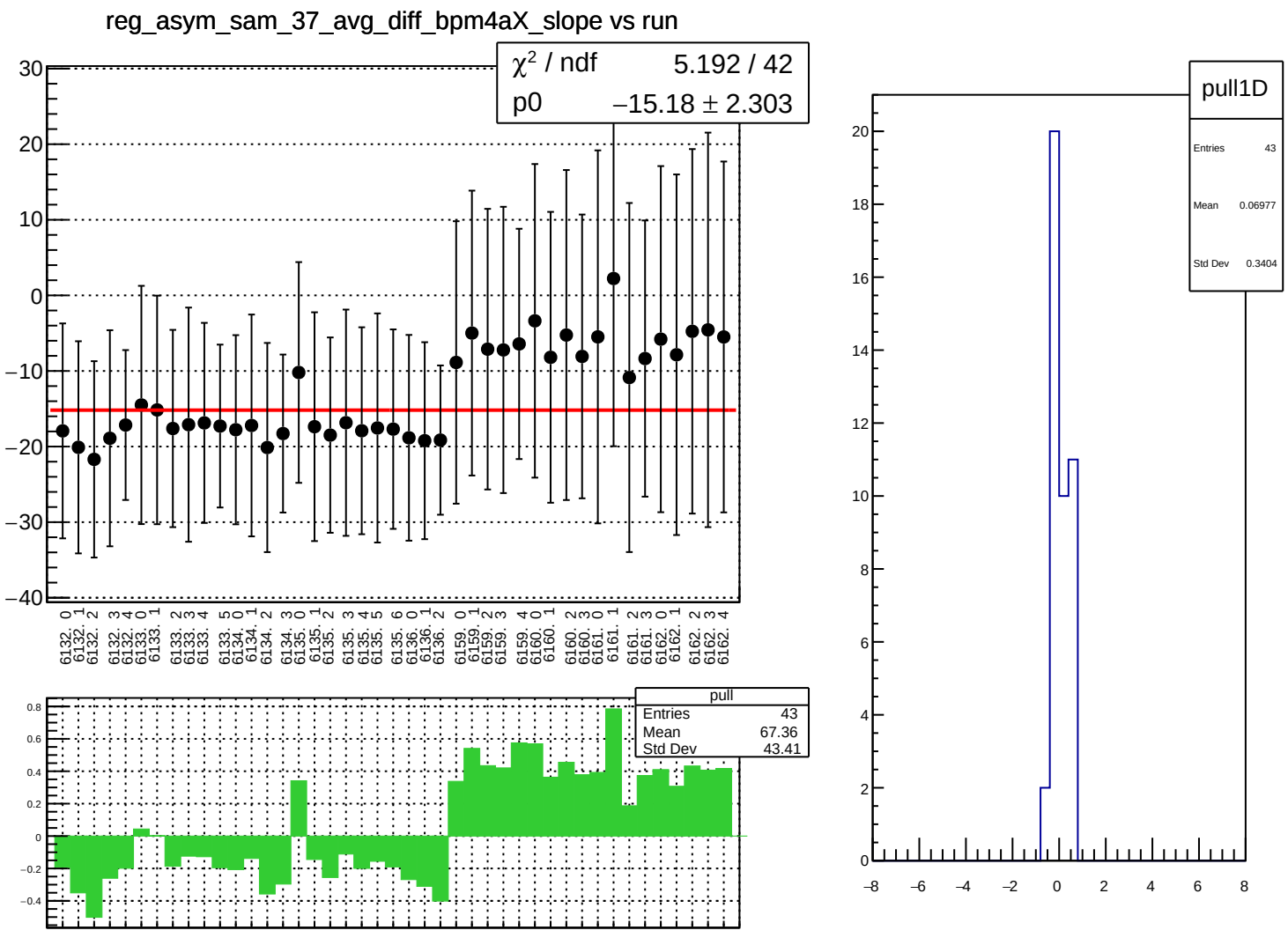

pull1D
Entries 43
Mean −0.01957
Std Dev 0.2606

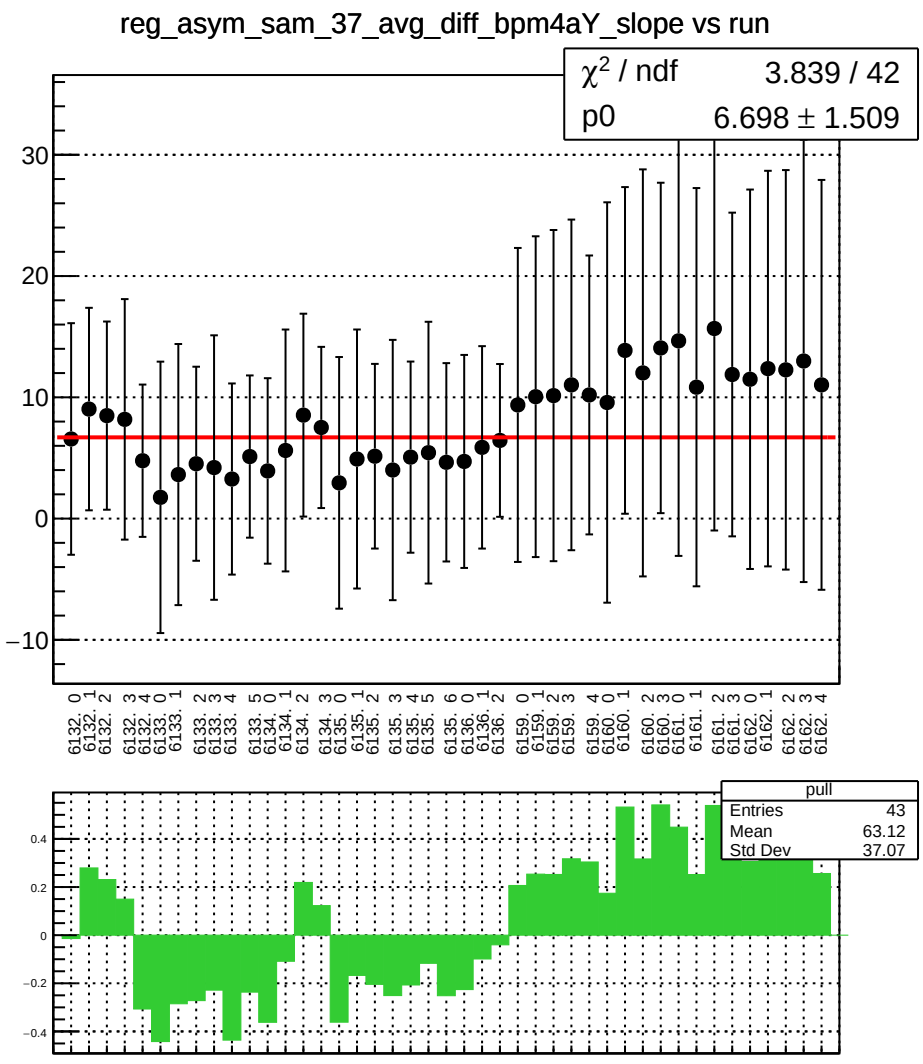

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.524 / 42
p0 −55.03 ± 1.066
−45
−50
−55
−60
−65
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −1393
Std Dev 1417
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 43
Mean −0.0005138
Std Dev 0.1883
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

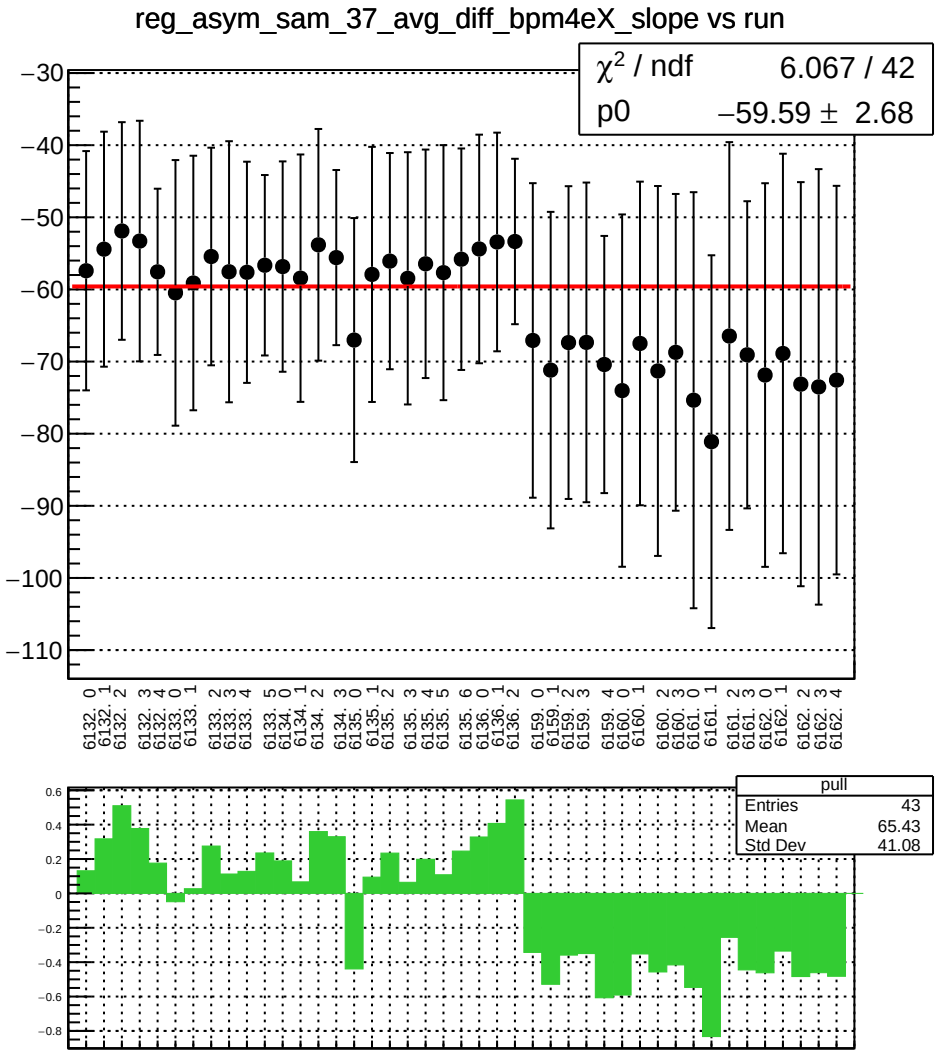

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.924 / 42
p0 0.6696 ± 1.82
pull
Entries 43
Mean −94.77
Std Dev 114.5
pull1D
Entries 43
Mean 0.0189
Std Dev 0.2601

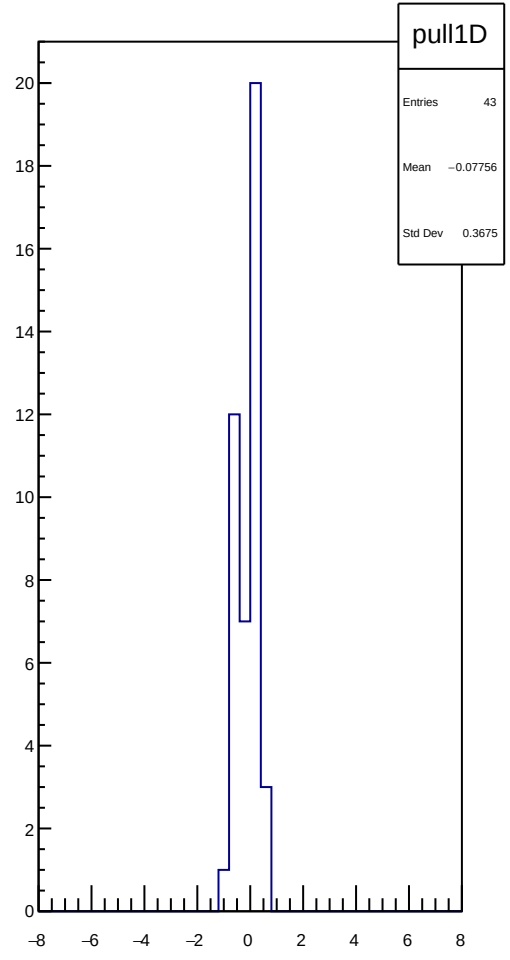

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.043 / 42
p0 −45.09 ± 1.134
pull
Entries 43
Mean −212.6
Std Dev 208.4
pull1D
Entries 43
Mean −0.0004561
Std Dev 0.218

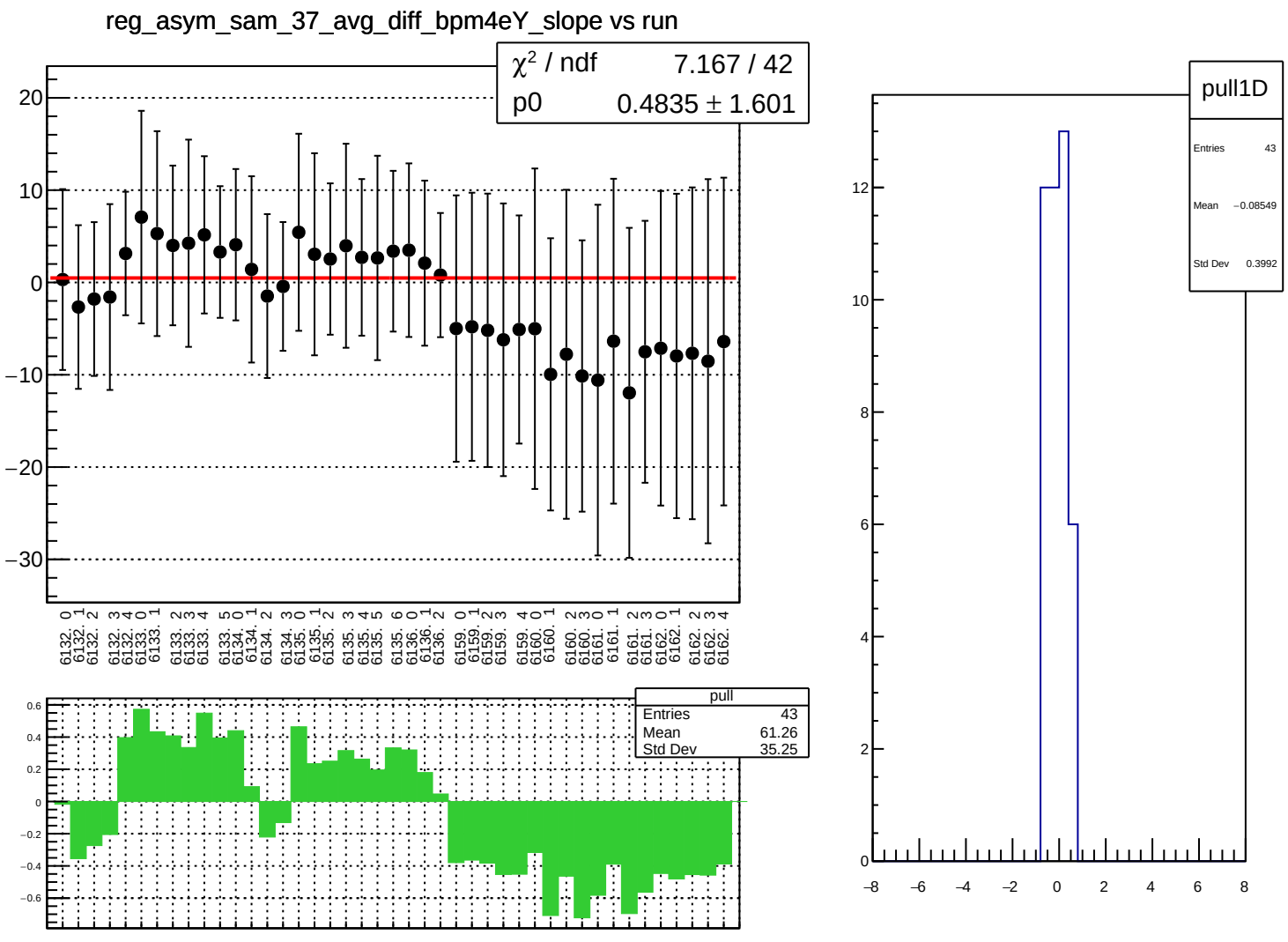

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 1.564 / 42
p0 0.03131 ± 0.08089
pull
Entries 43
Mean −131.6
Std Dev 158.7
pull1D
Entries 43
Mean 0.007761
Std Dev 0.1906

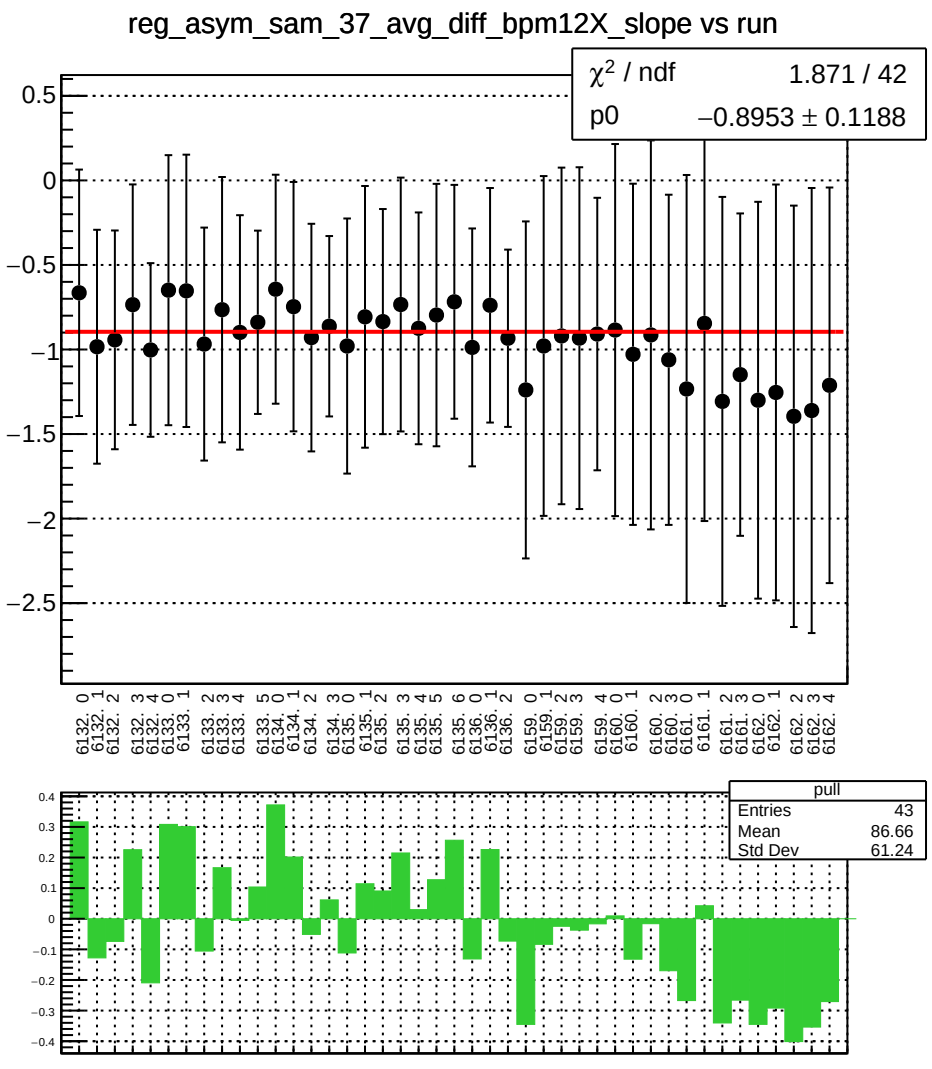

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 5.192 / 42
p0 −15.18 ± 2.303
pull
Entries 43
Mean 67.36
Std Dev 43.41
pull1D
Entries 43
Mean 0.06977
Std Dev 0.3404

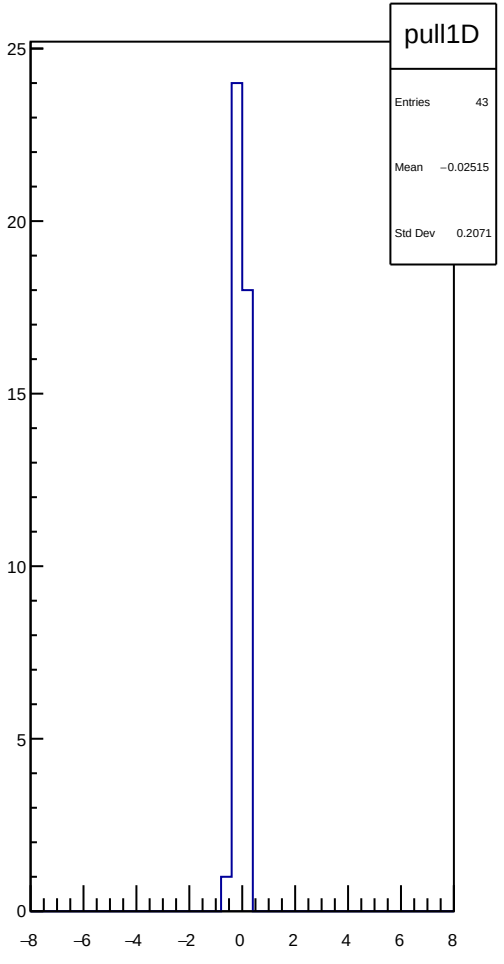

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.839 / 42
p0 6.698 ± 1.509
30
20
10
0
−10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 63.12
Std Dev 37.07
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 43
Mean 0.05829
Std Dev 0.2931
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

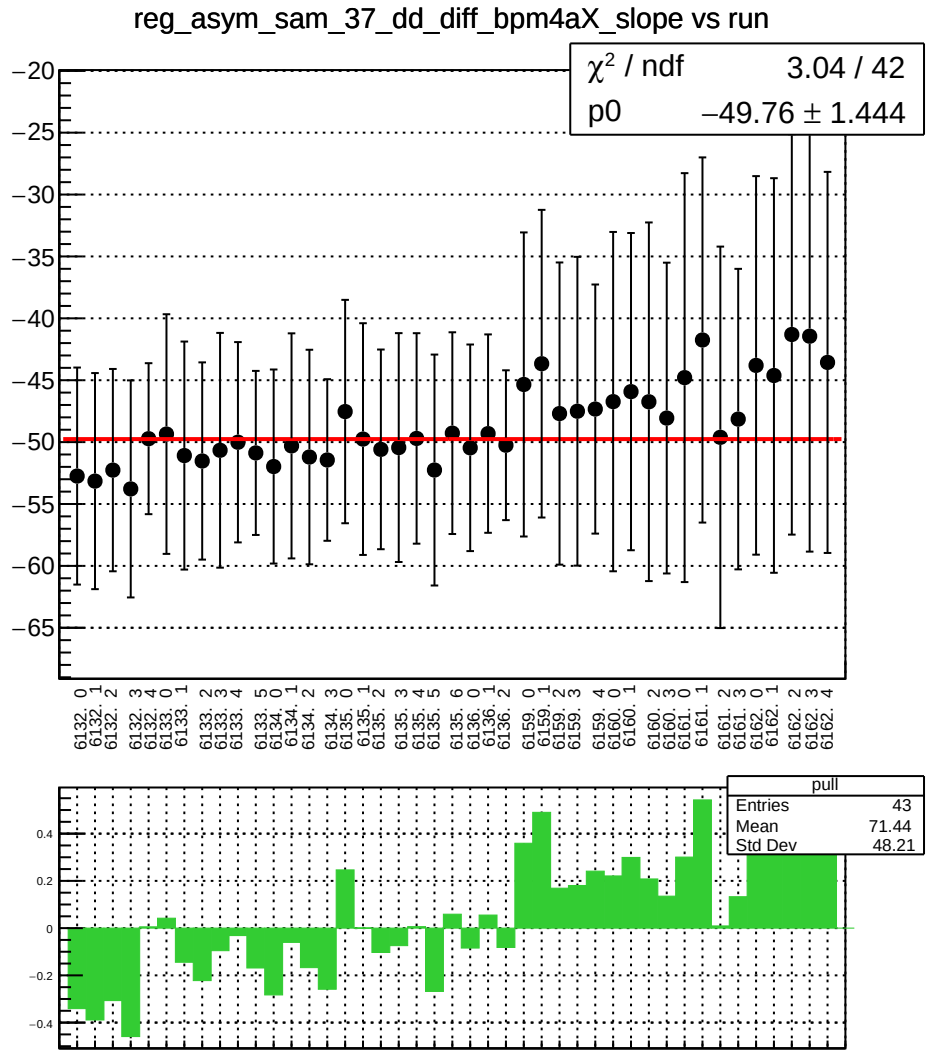

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.067 / 42
p0 −59.59 ± 2.68
pull
Entries 43
Mean 65.43
Std Dev 41.08

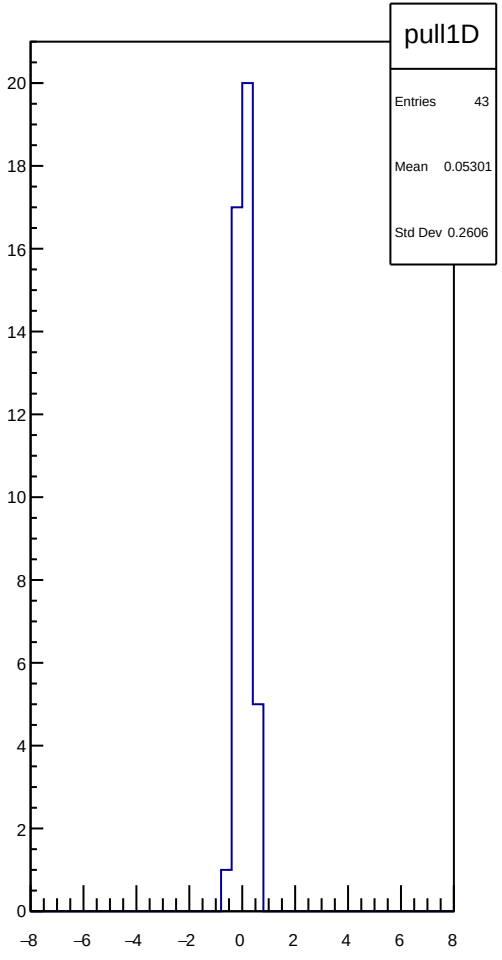

pull1D
Entries 43
Mean −0.07756
Std Dev 0.3675

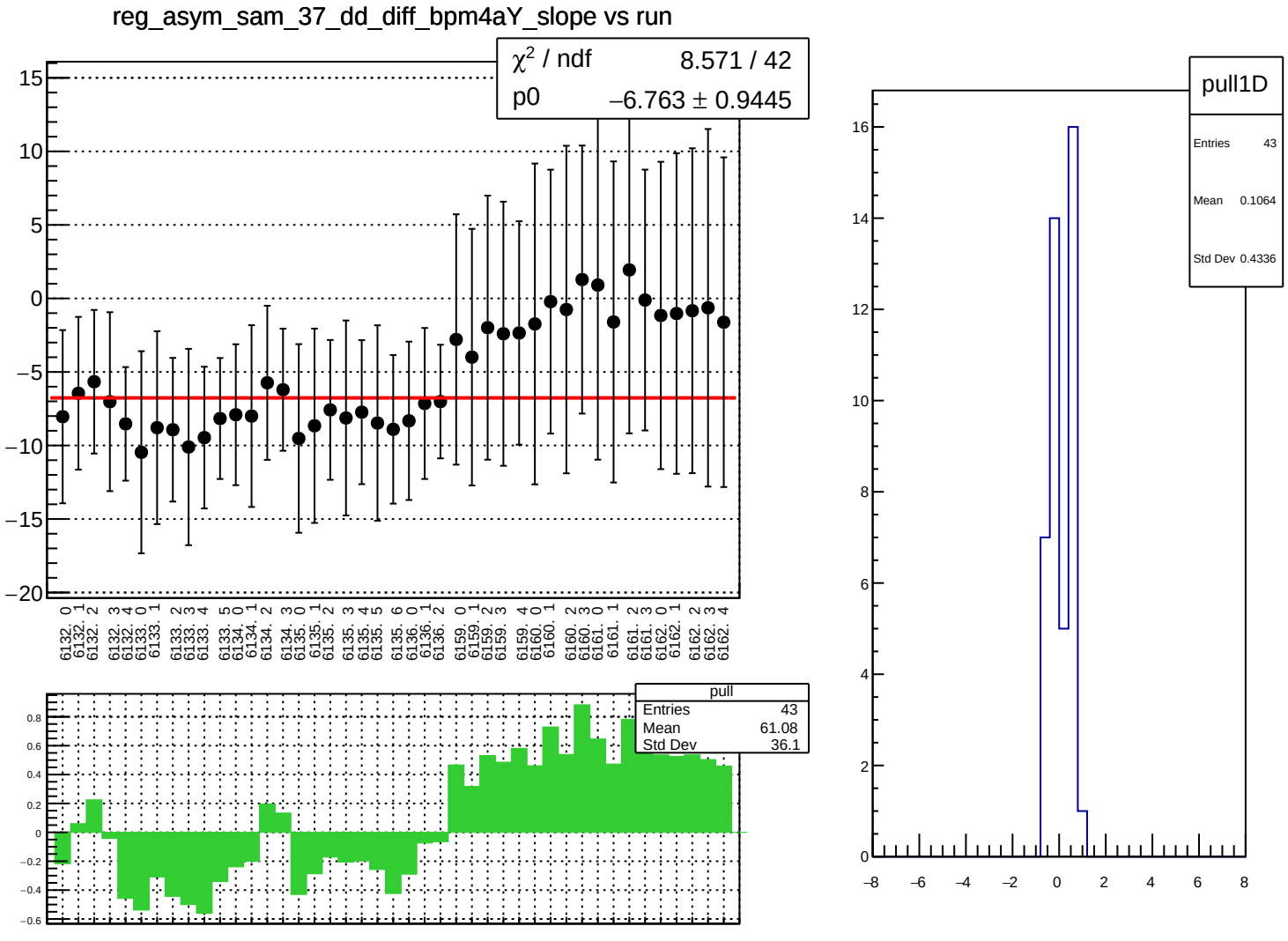

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.167 / 42
p0 0.4835 ± 1.601
20
10
0
−10
−20
−30
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 61.26
Std Dev 35.25
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean −0.08549
Std Dev 0.3992
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

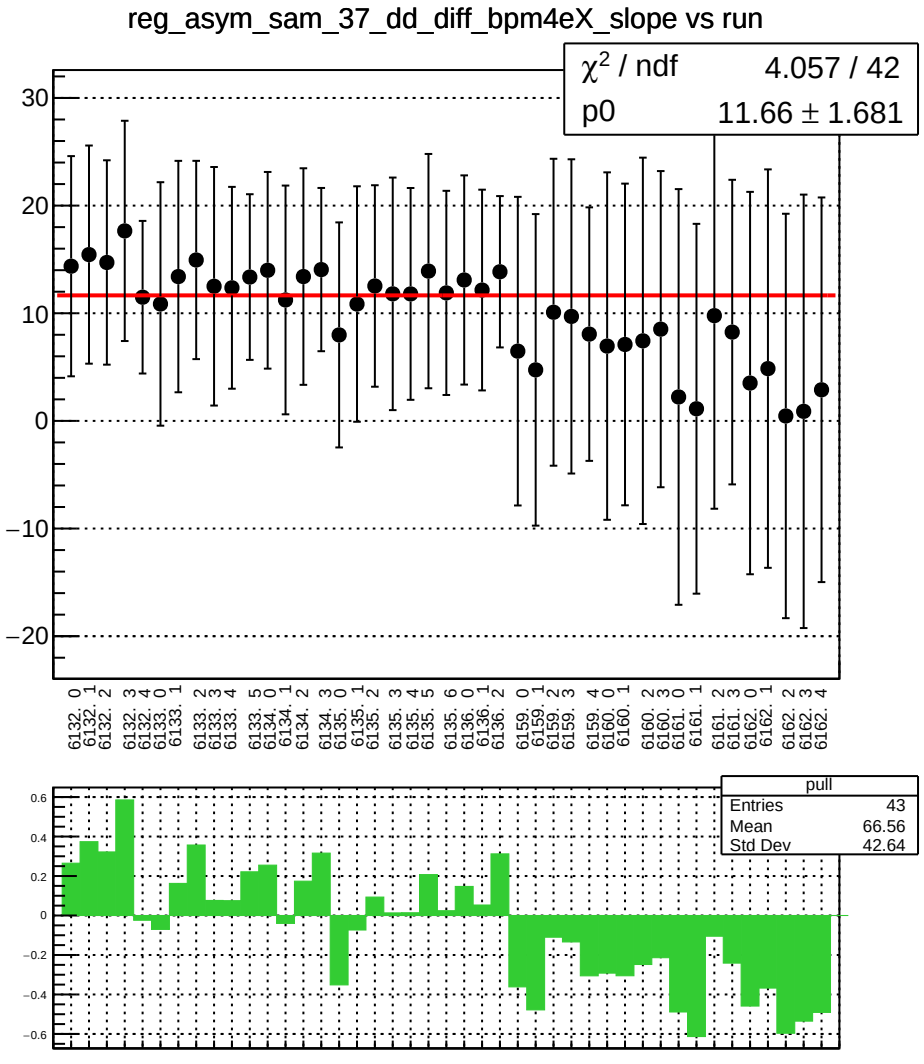

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 1.871 / 42
p0 −0.8953 ± 0.1188
pull
Entries 43
Mean 86.66
Std Dev 61.24

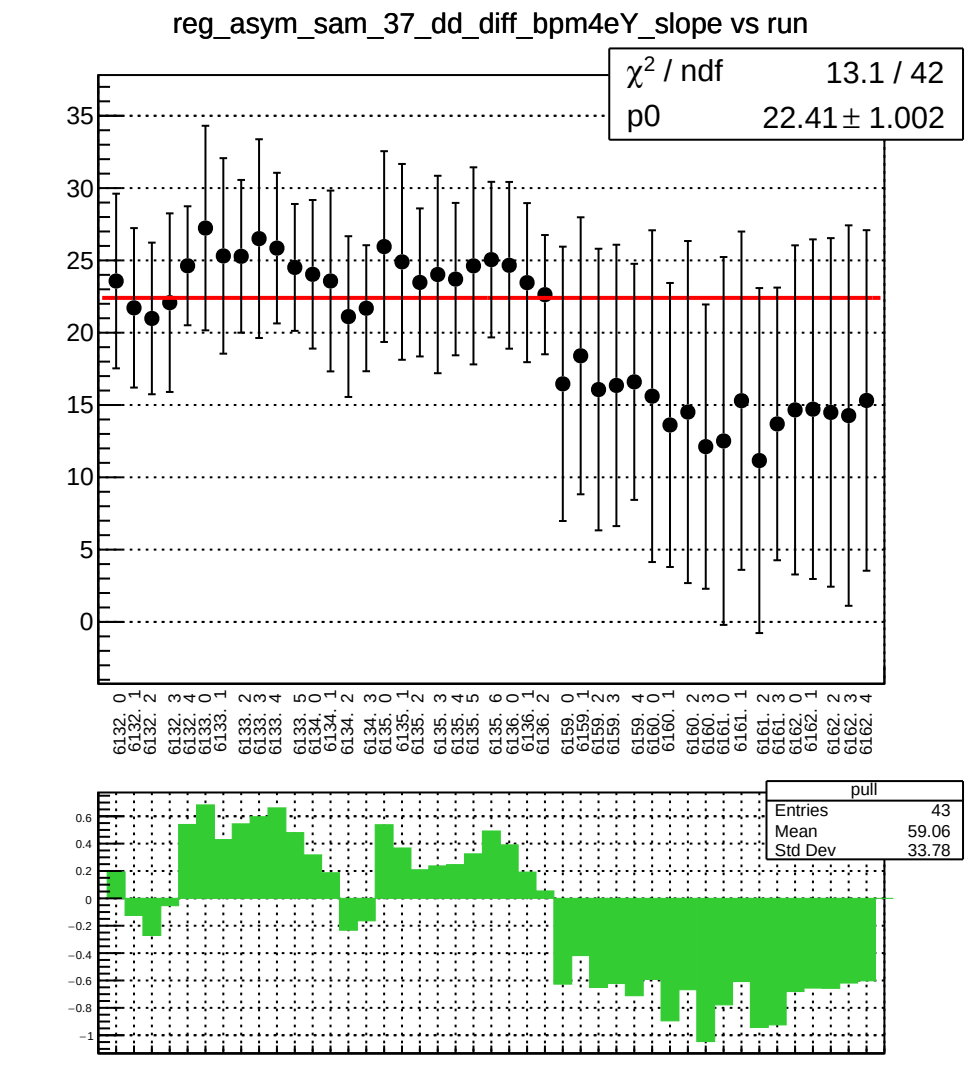

pull1D
Entries 43
Mean −0.02515
Std Dev 0.2071

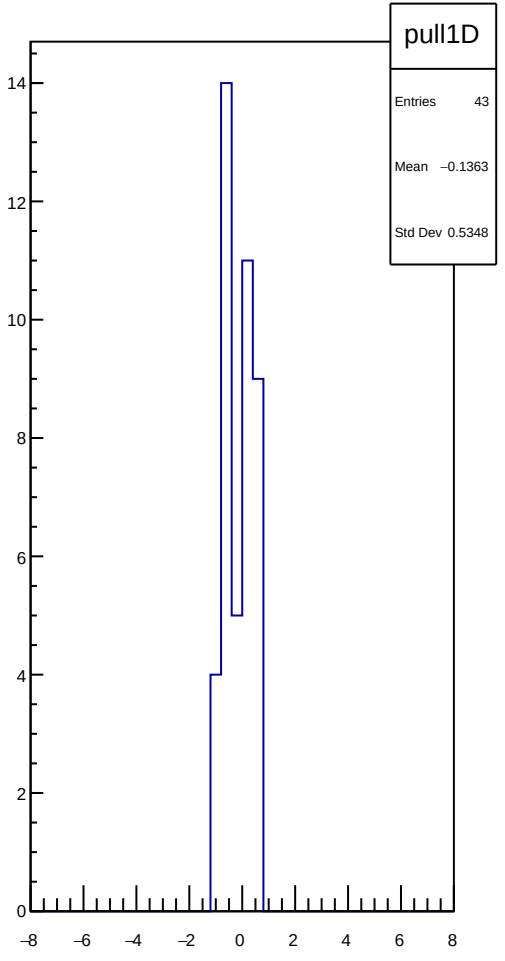

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 3.04 / 42
p0 −49.76 ± 1.444
pull
Entries 43
Mean 71.44
Std Dev 48.21

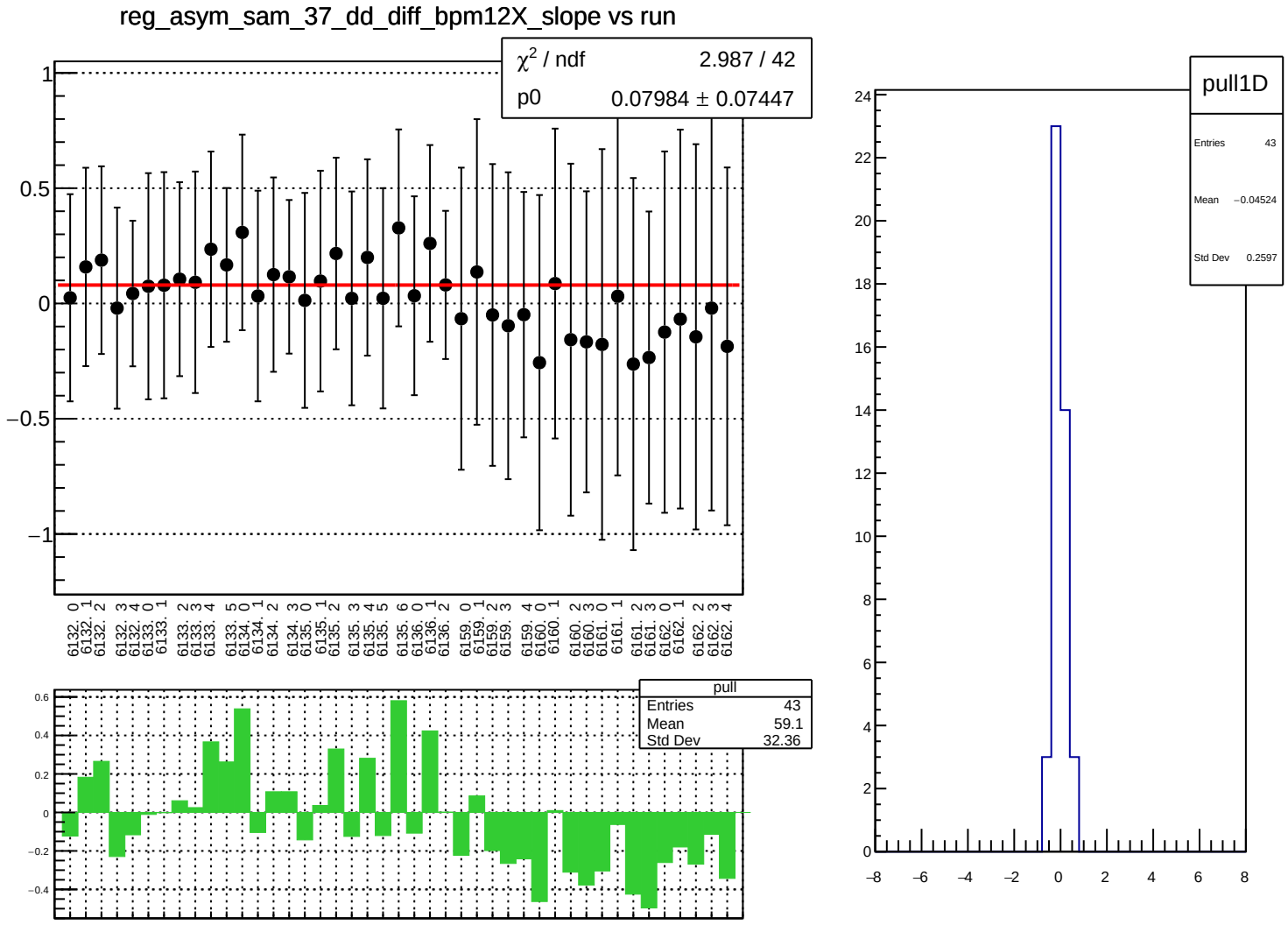

pull1D
Entries 43
Mean 0.05301
Std Dev 0.2606

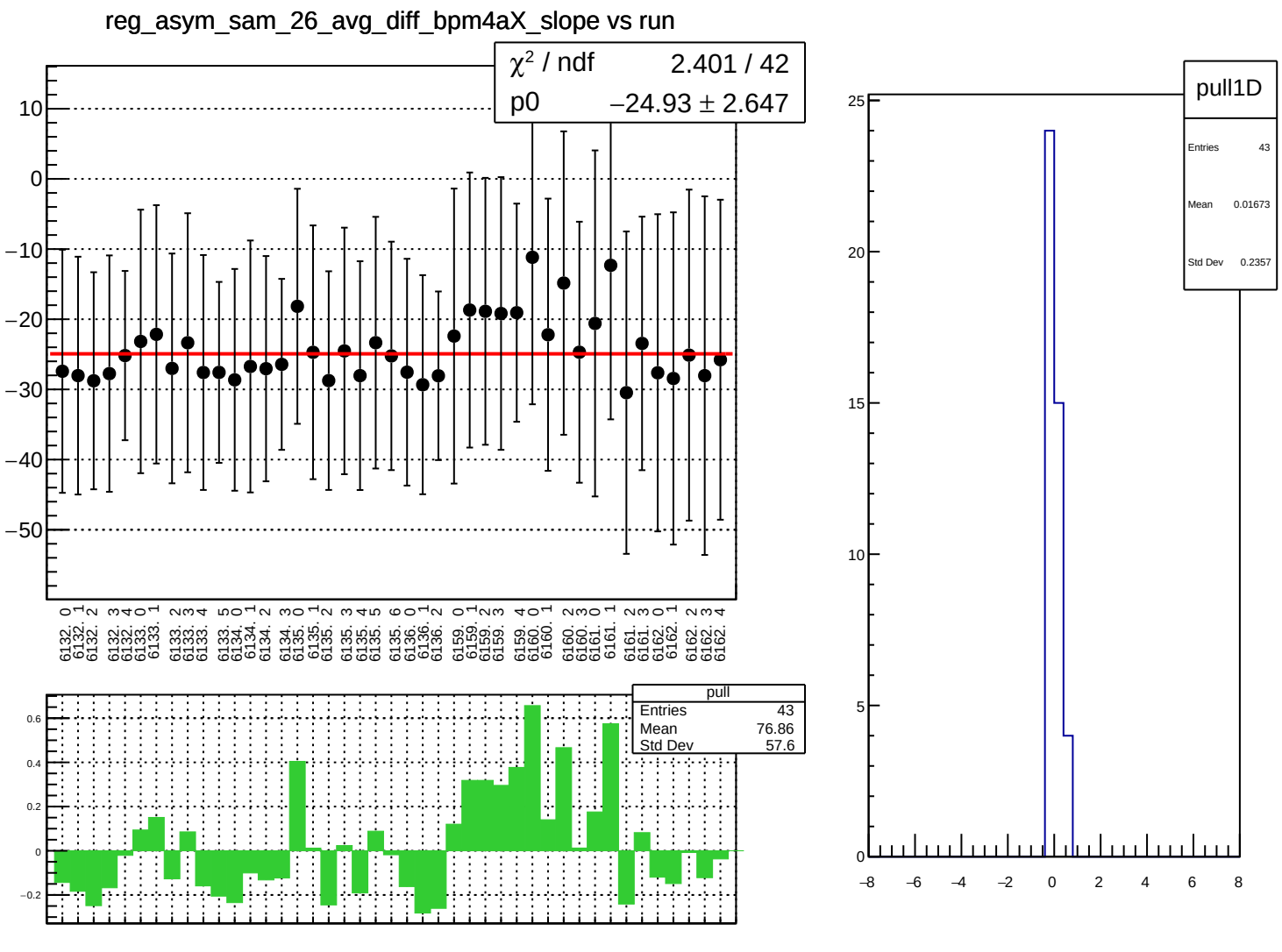

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.571 / 42
p0 −6.763 ± 0.9445
pull
Entries 43
Mean 61.08
Std Dev 36.1
pull1D
Entries 43
Mean 0.1064
Std Dev 0.4336

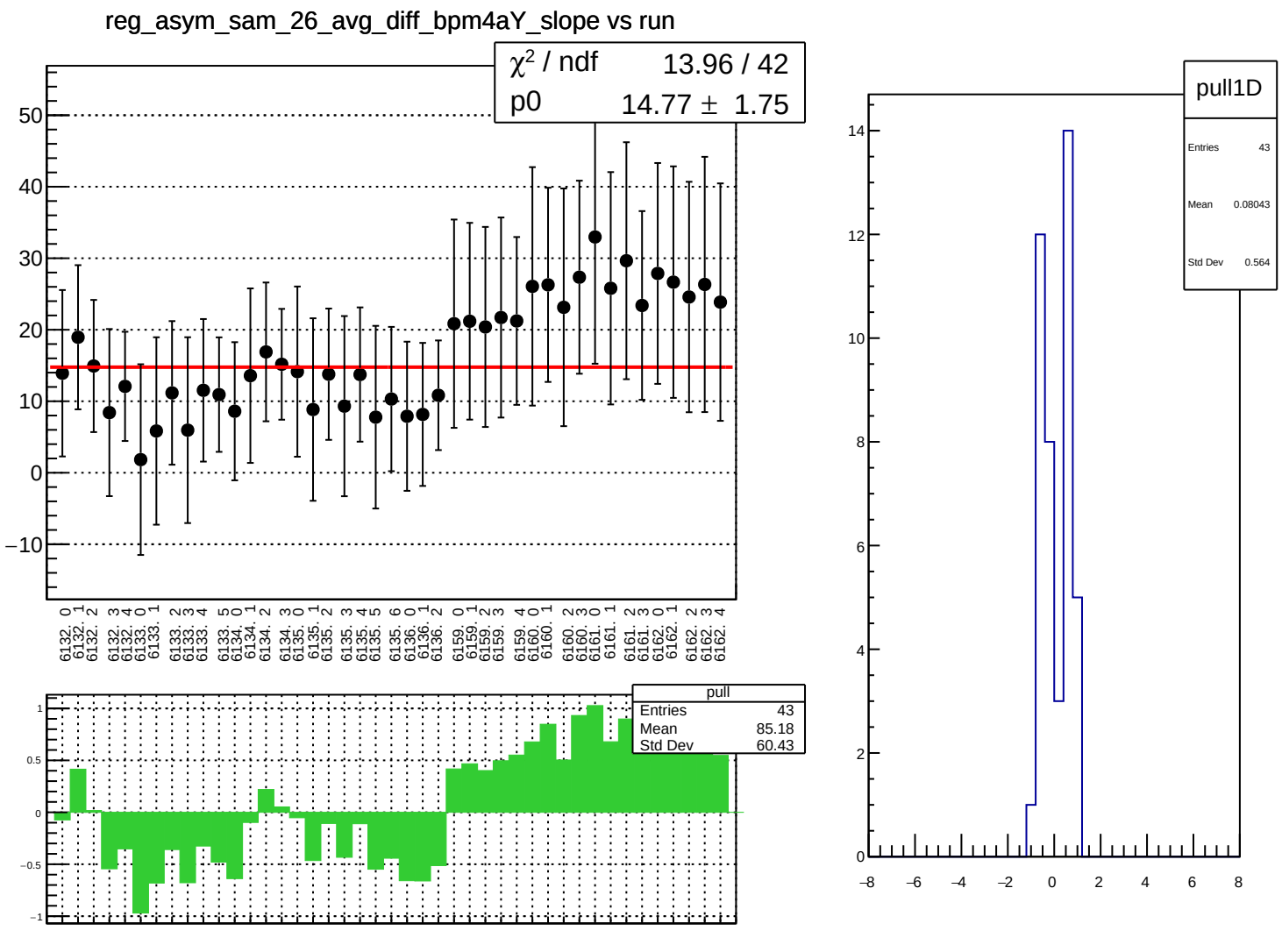

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.057 / 42
p0 11.66 ± 1.681
30
20
10
0
−10
−20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 66.56
Std Dev 42.64
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean −0.06641
Std Dev 0.2999
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

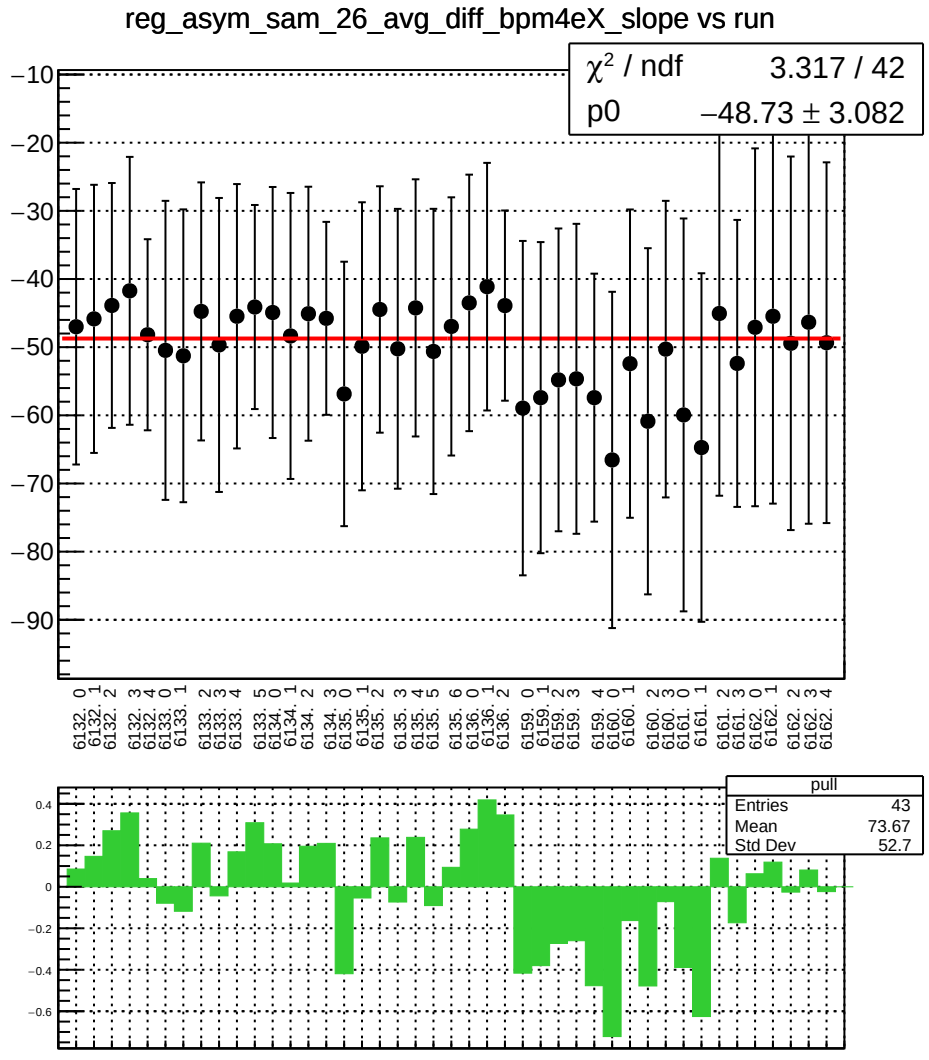

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.1 / 42
p0 22.41 ± 1.002
pull
Entries 43
Mean 59.06
Std Dev 33.78

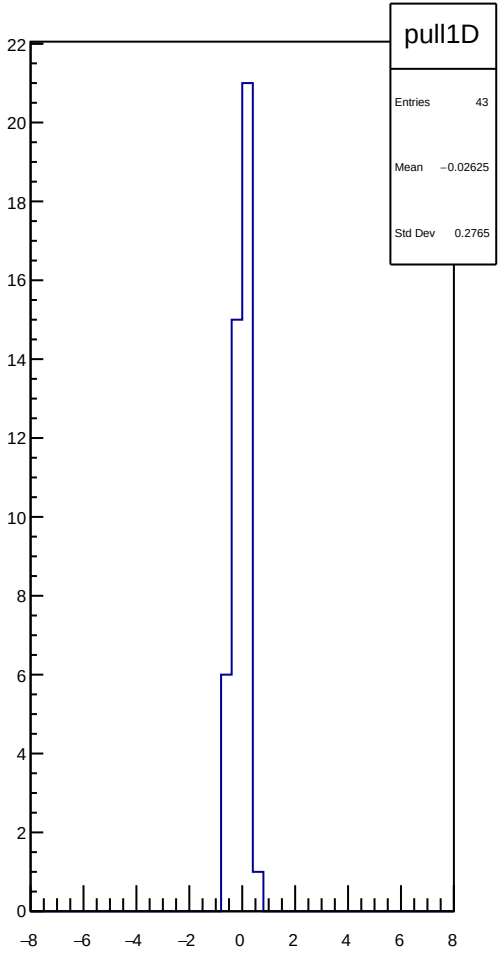

pull1D
Entries 43
Mean −0.1363
Std Dev 0.5348

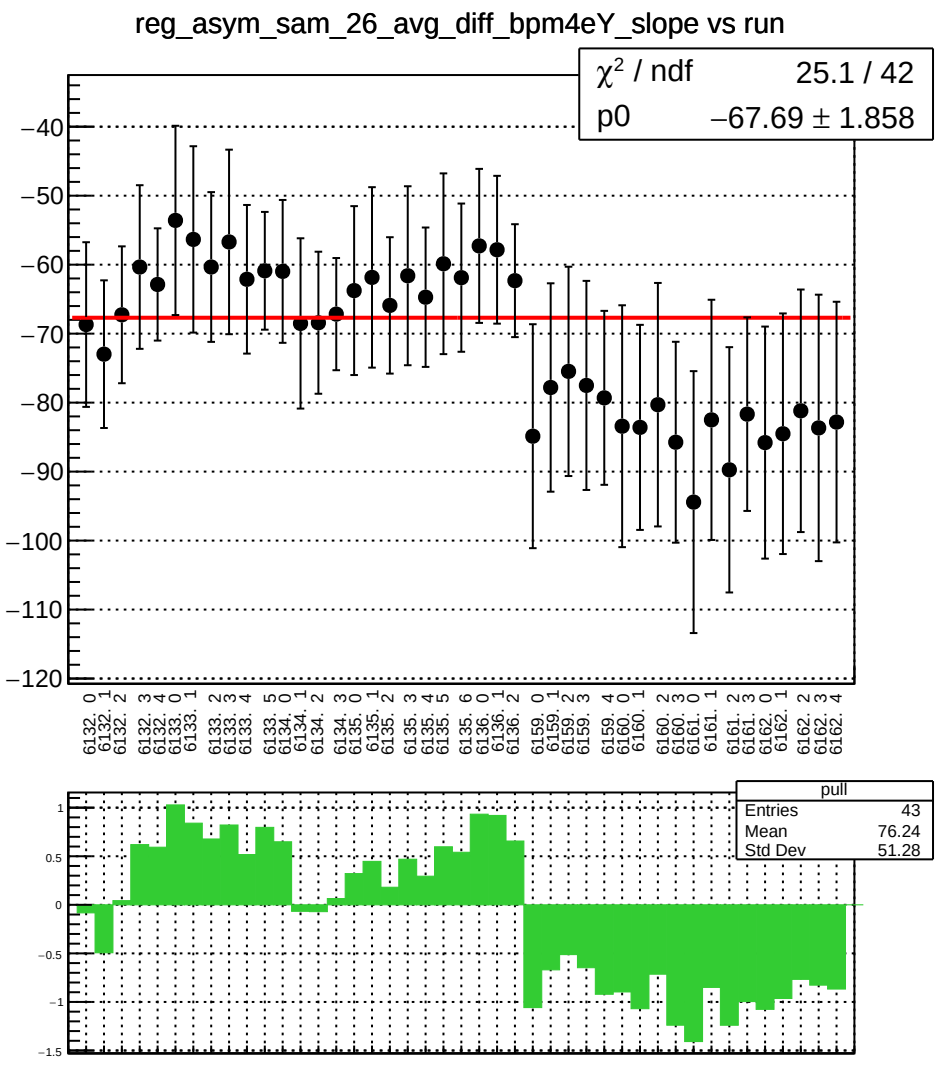

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2.987 / 42
p0 0.07984 ± 0.07447
pull
Entries 43
Mean 59.1
Std Dev 32.36
pull1D
Entries 43
Mean −0.04524
Std Dev 0.2597

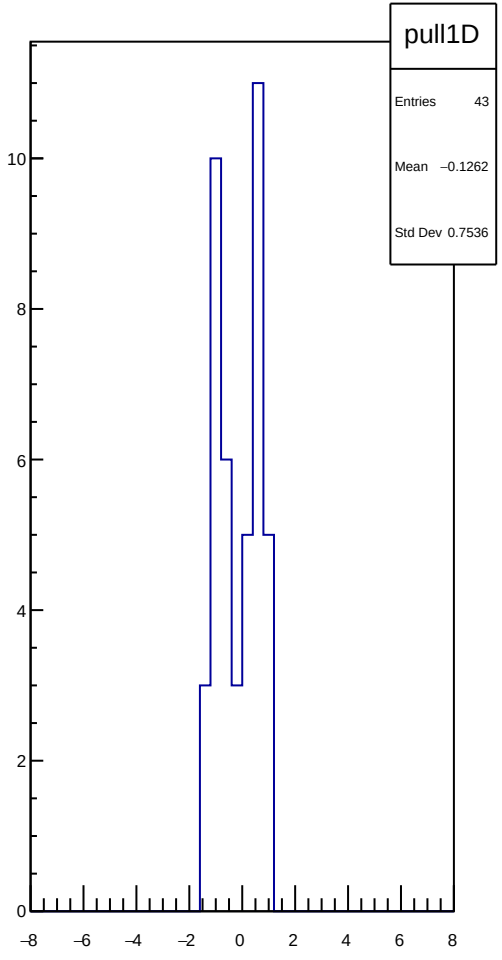

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 2.401 / 42
p0 −24.93 ± 2.647
pull
Entries 43
Mean 76.86
Std Dev 57.6
pull1D
Entries 43
Mean 0.01673
Std Dev 0.2357

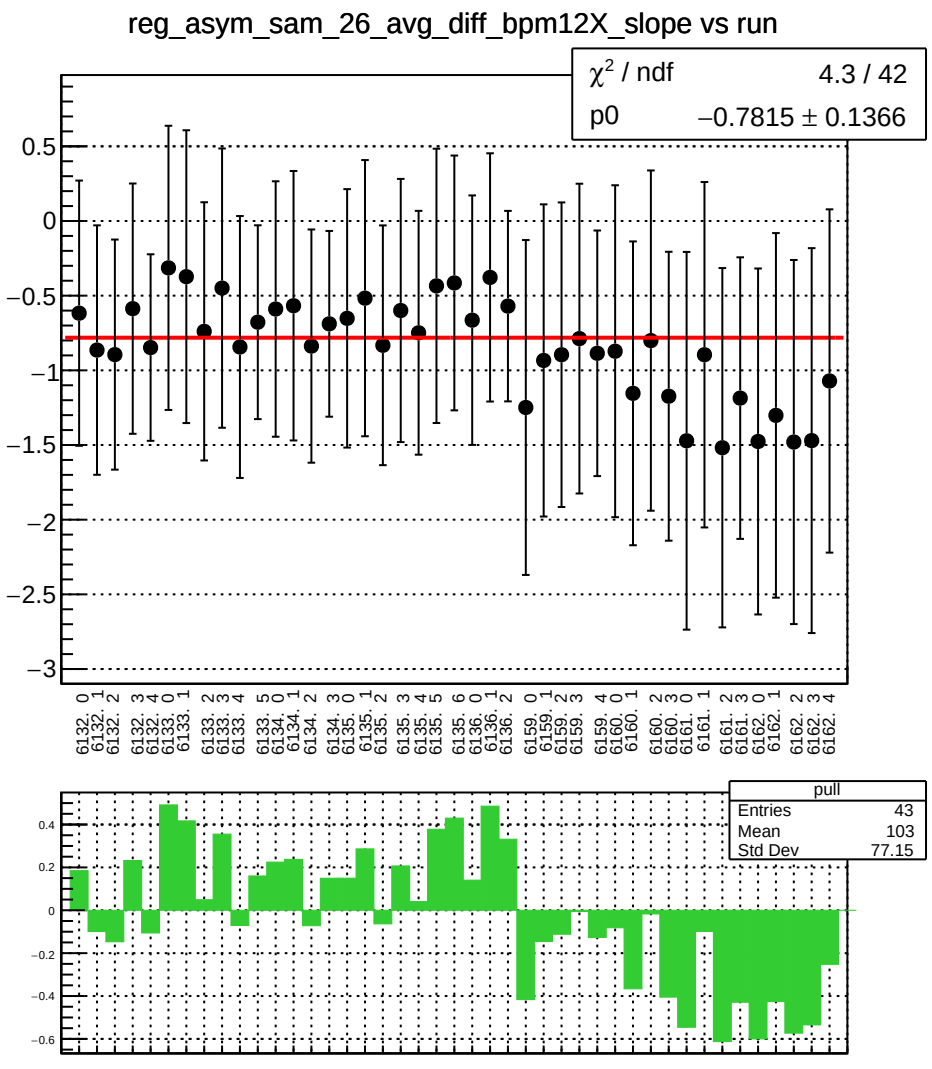

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.96 / 42
p0 14.77 ± 1.75
pull
Entries 43
Mean 85.18
Std Dev 60.43
pull1D
Entries 43
Mean 0.08043
Std Dev 0.564

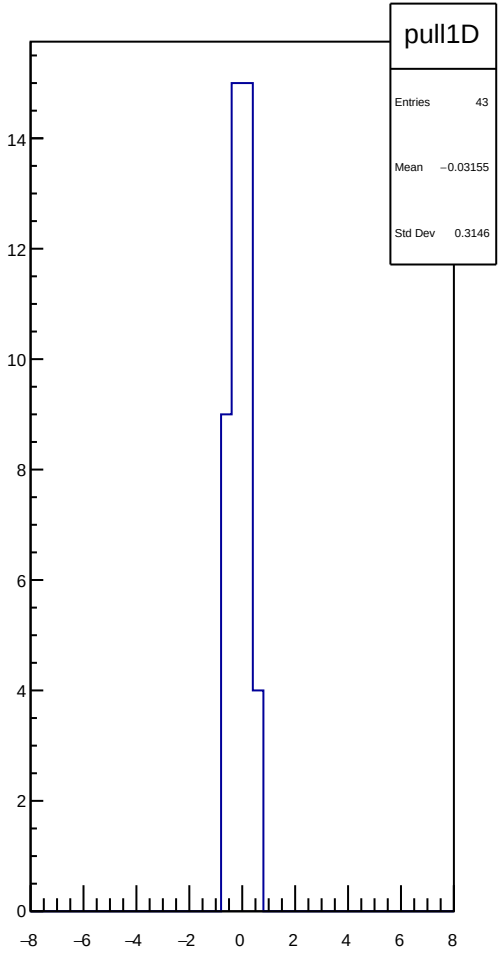

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.317 / 42
p0 −48.73 ± 3.082
pull
Entries 43
Mean 73.67
Std Dev 52.7

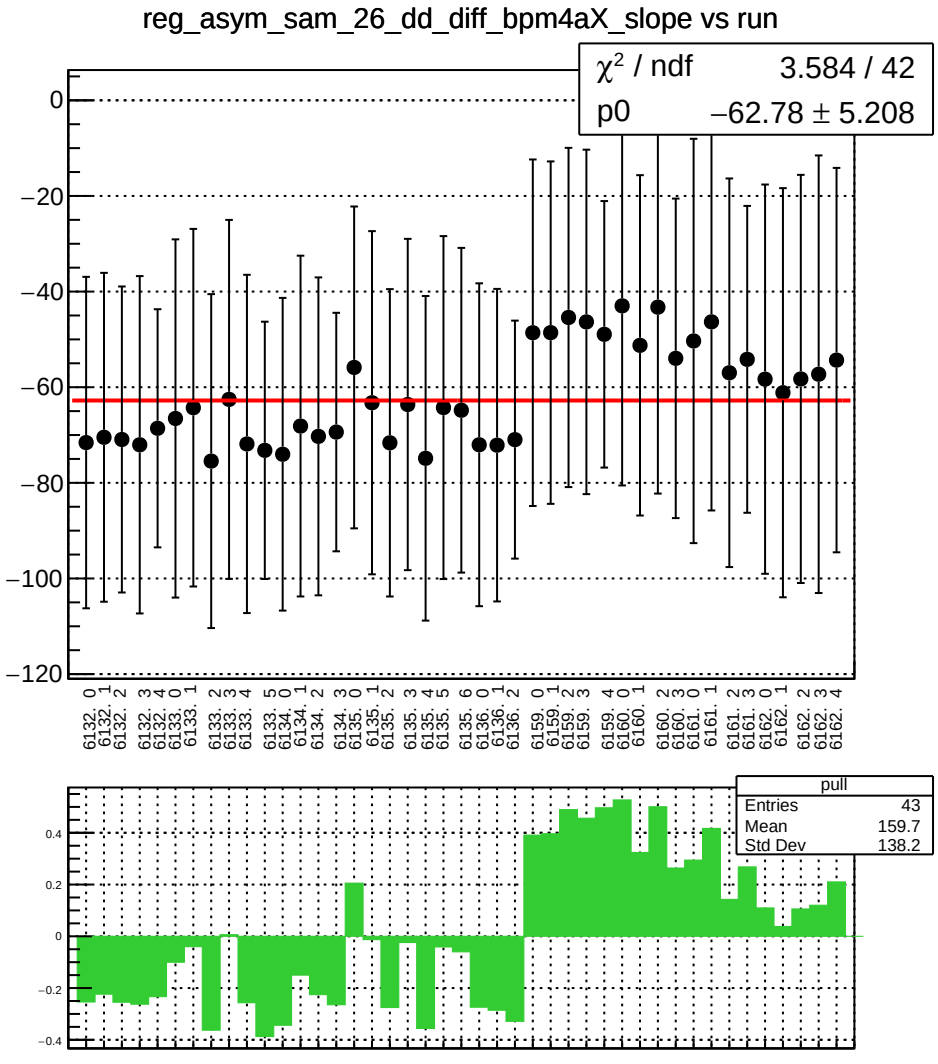

pull1D
Entries 43
Mean −0.02625
Std Dev 0.2765

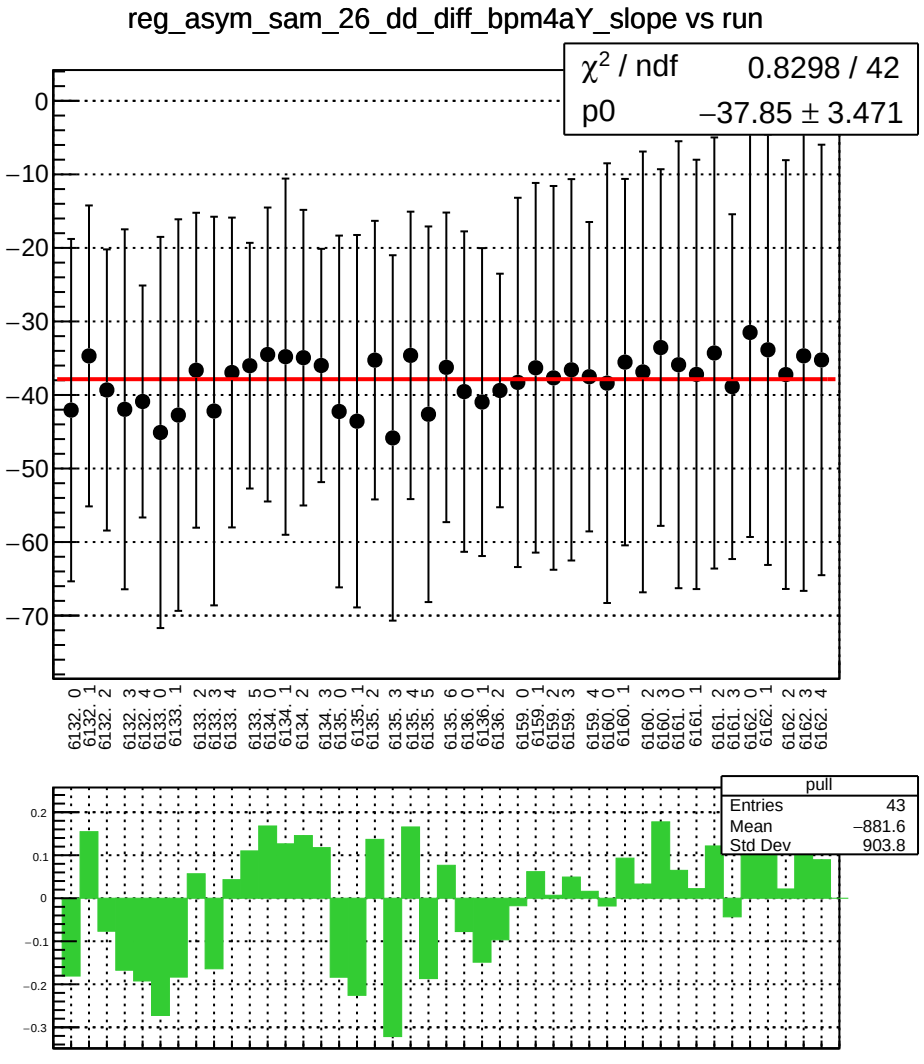

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.1 / 42
p0 −67.69 ± 1.858
pull
Entries 43
Mean 76.24
Std Dev 51.28

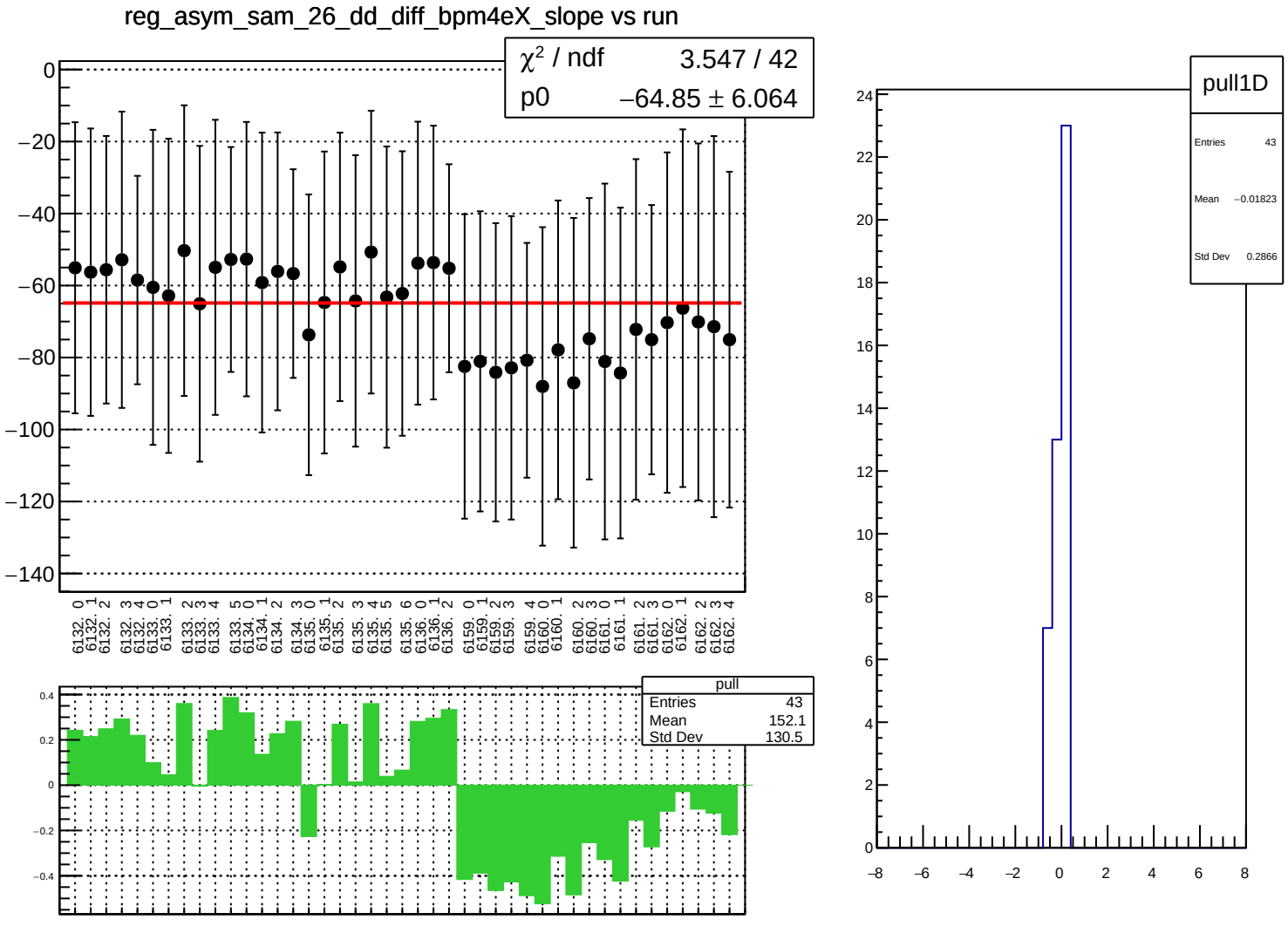

pull1D
Entries 43
Mean −0.1262
Std Dev 0.7536

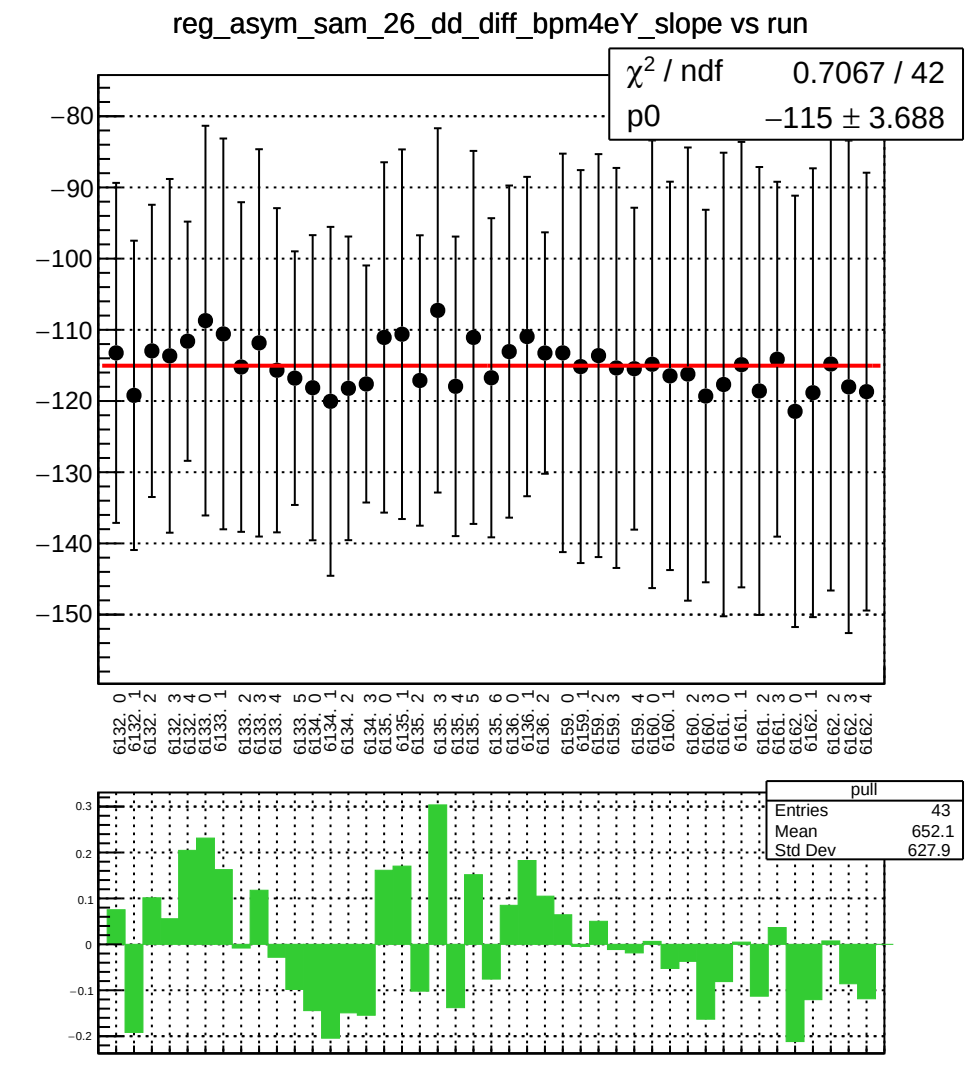

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 4.3 / 42
p0 −0.7815 ± 0.1366
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 103
Std Dev 77.15
0.4
0.2
0
−0.2
−0.4
−0.6

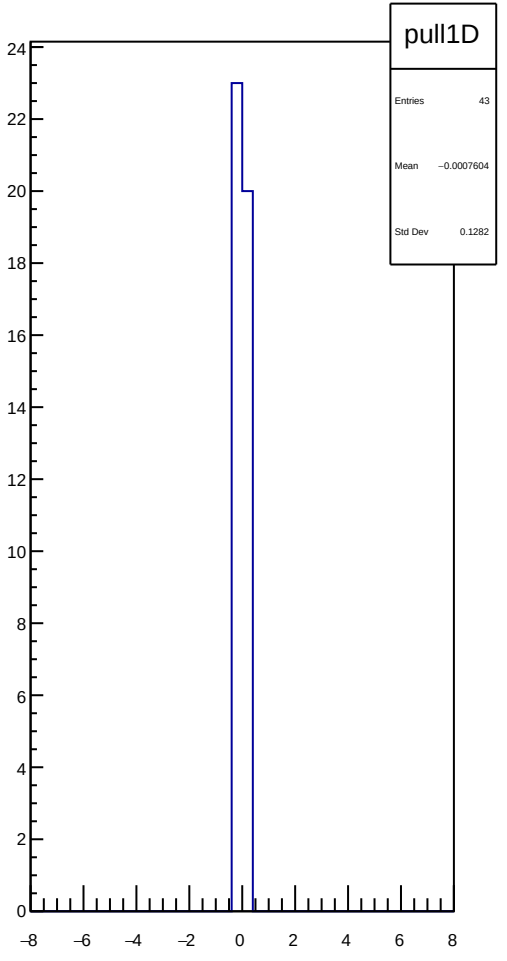

pull1D
Entries 43
Mean −0.03155
Std Dev 0.3146
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

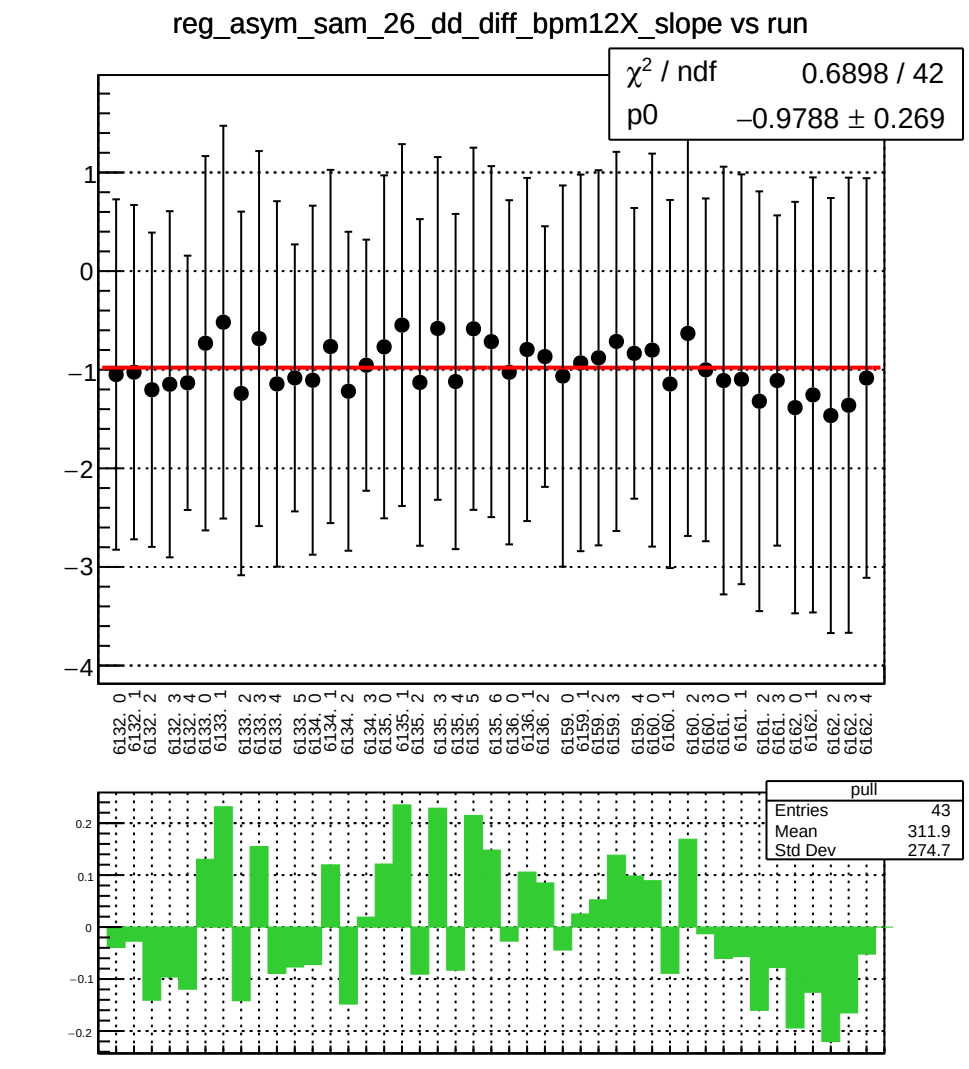

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 3.584 / 42
p0 −62.78 ± 5.208
pull
Entries 43
Mean 159.7
Std Dev 138.2
pull1D
Entries 43
Mean 0.01734
Std Dev 0.2882

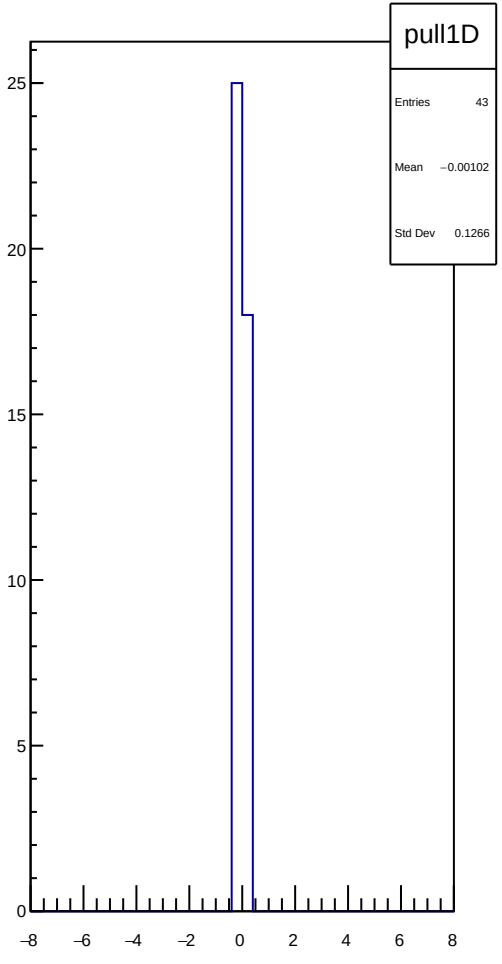

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.8298 / 42
p0 −37.85 ± 3.471
0
−10
−20
−30
−40
−50
−60
−70
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −881.6
Std Dev 903.8
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 43
Mean −0.0007496
Std Dev 0.1389
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

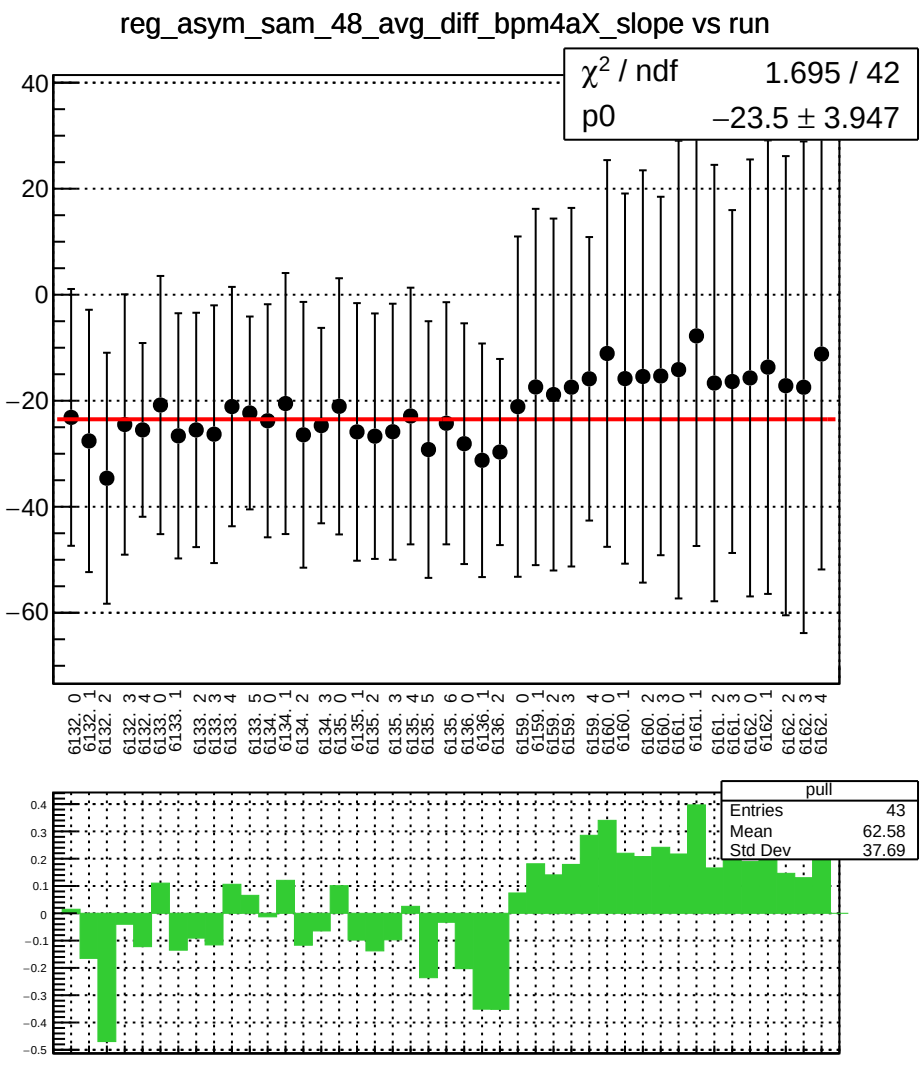

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.547 / 42
p0 −64.85 ± 6.064
0
−20
−40
−60
−80
−100
−120
−140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 152.1
Std Dev 130.5
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 43
Mean −0.01823
Std Dev 0.2866
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

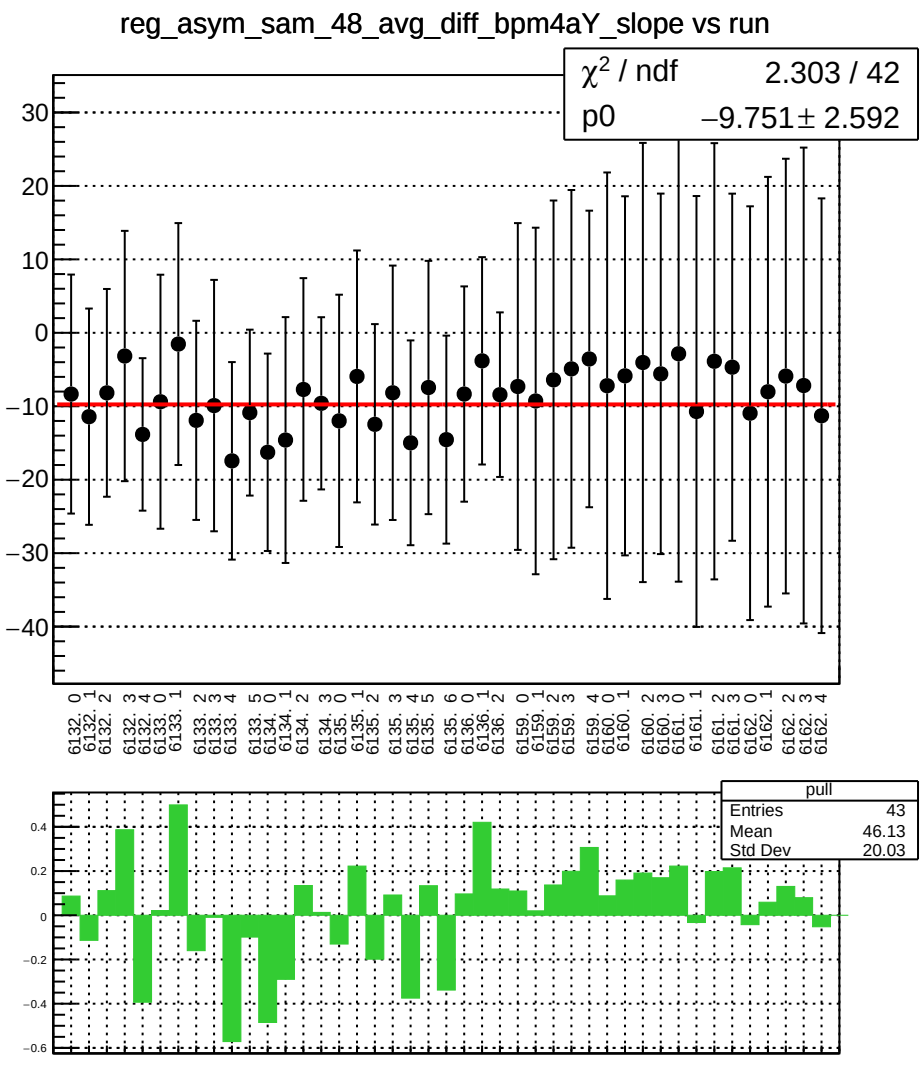

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.7067 / 42
p0 −115 ± 3.688
−80
−90
−100
−110
−120
−130
−140
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 652.1
Std Dev 627.9
0.3
0.2
0.1
0
−0.1
−0.2

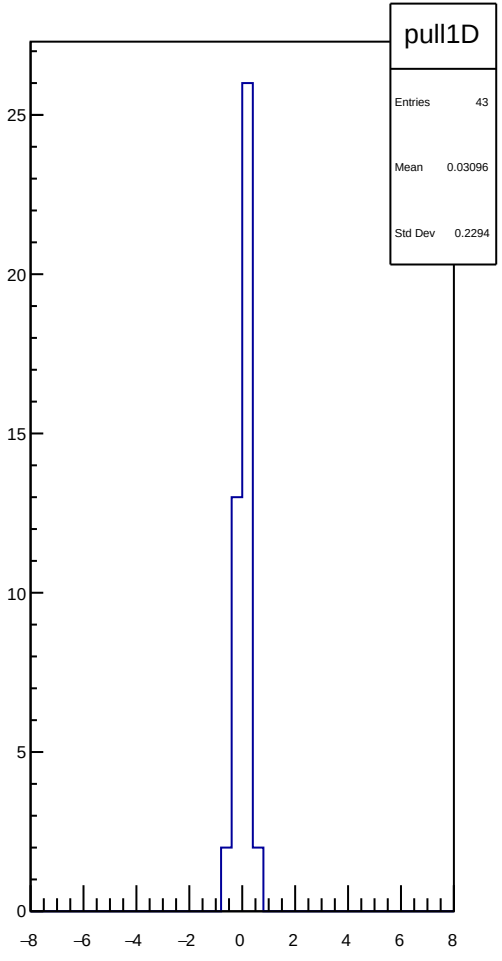

pull1D
Entries 43
Mean −0.0007604
Std Dev 0.1282
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

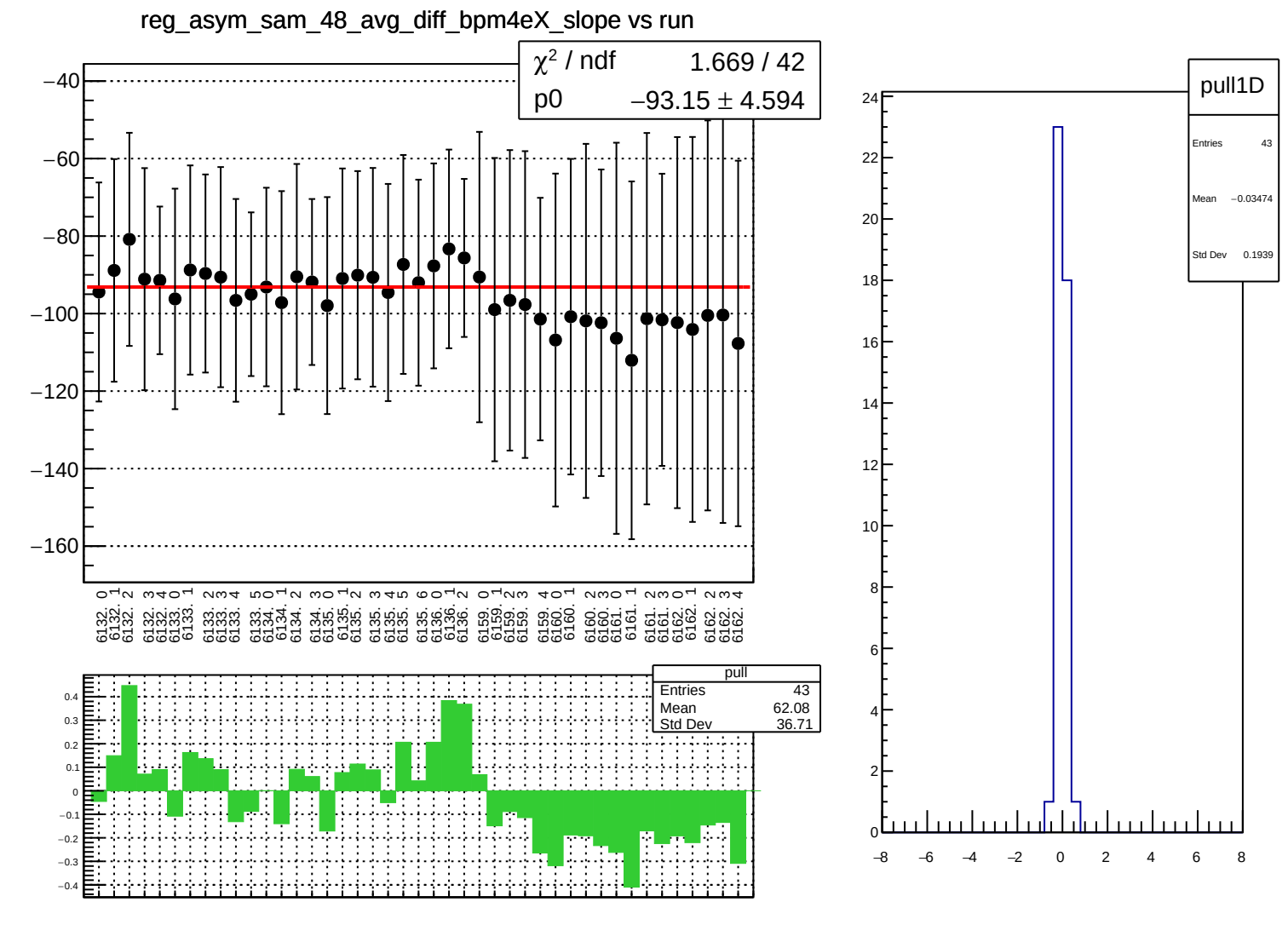

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.6898 / 42
p0 −0.9788 ± 0.269
pull
Entries 43
Mean 311.9
Std Dev 274.7

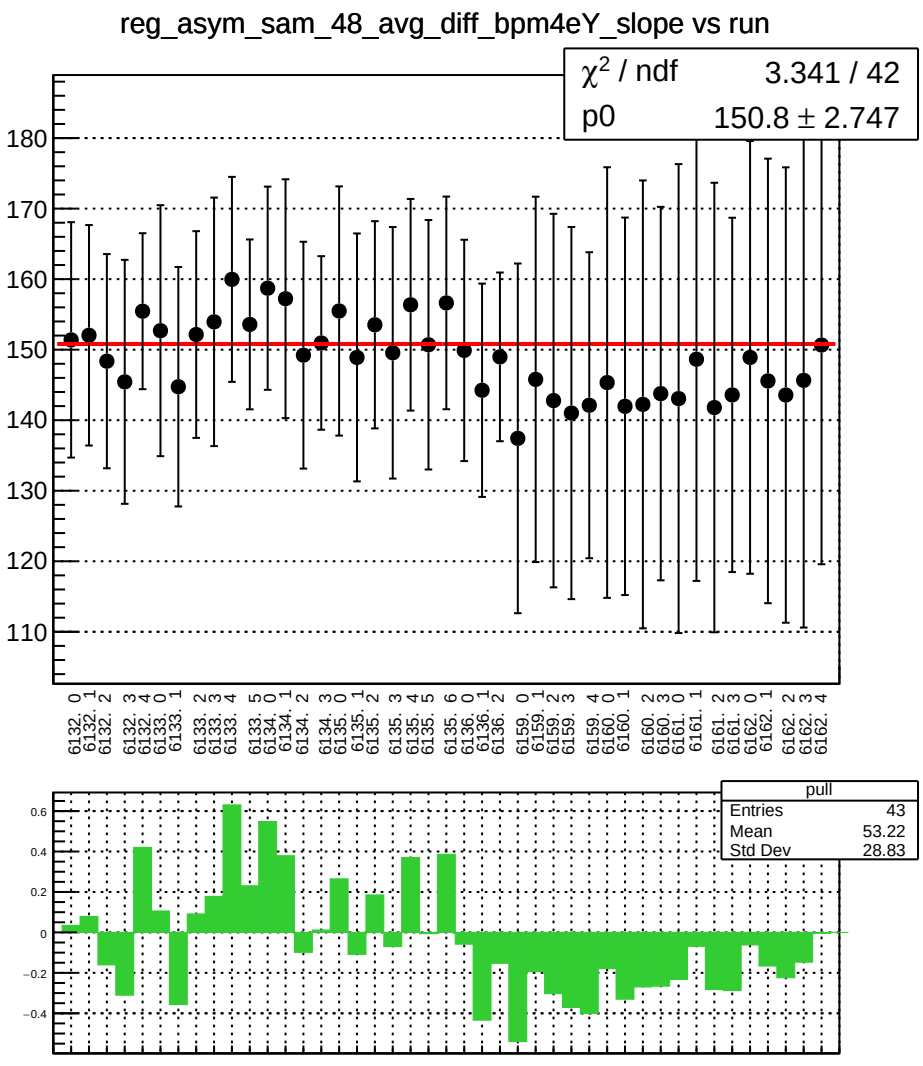

pull1D
Entries 43
Mean −0.00102
Std Dev 0.1266

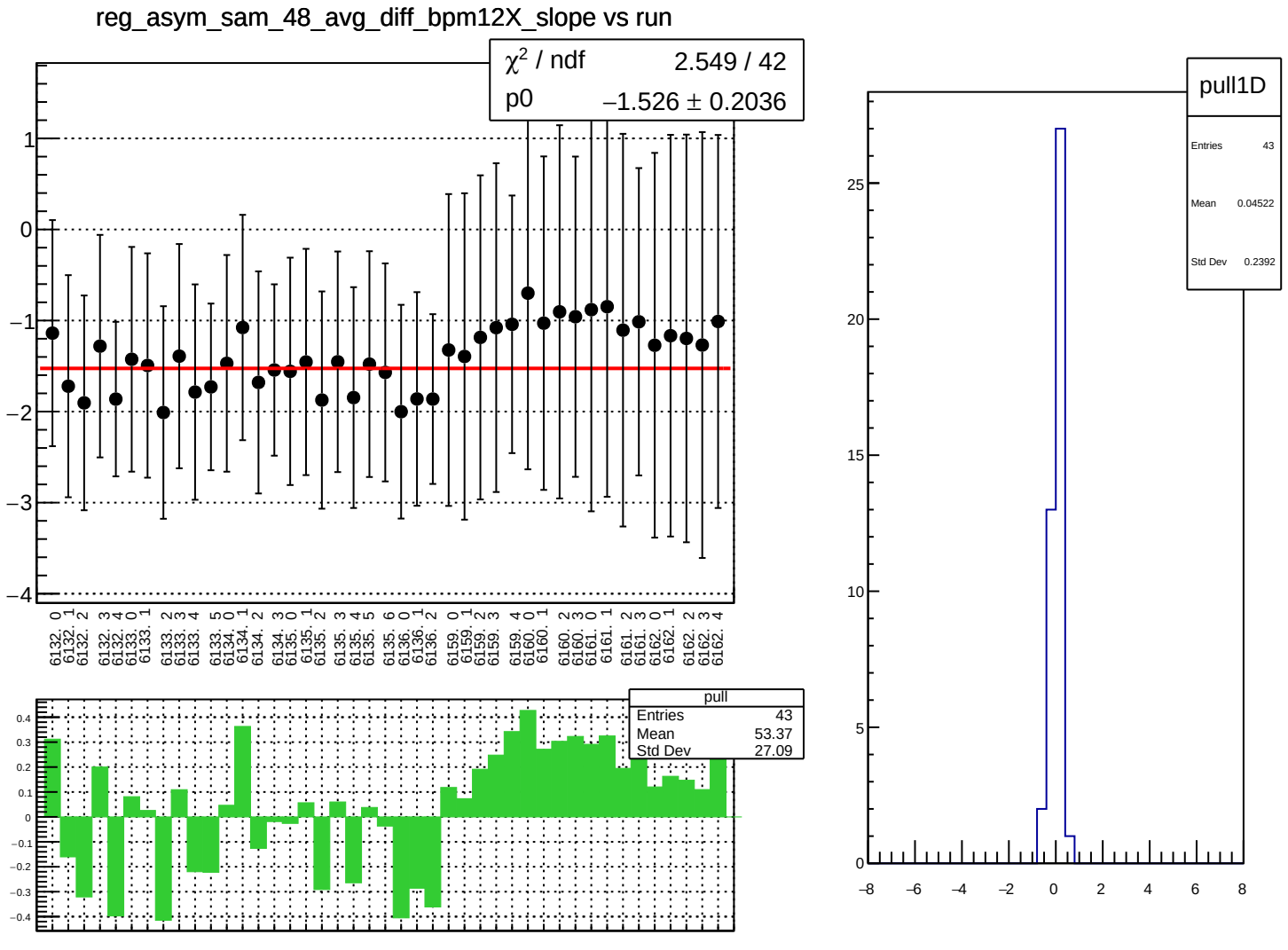

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.695 / 42
p0 −23.5 ± 3.947
40
20
0
−20
−40
−60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 62.58
Std Dev 37.69
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 43
Mean 0.0366
Std Dev 0.1952
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

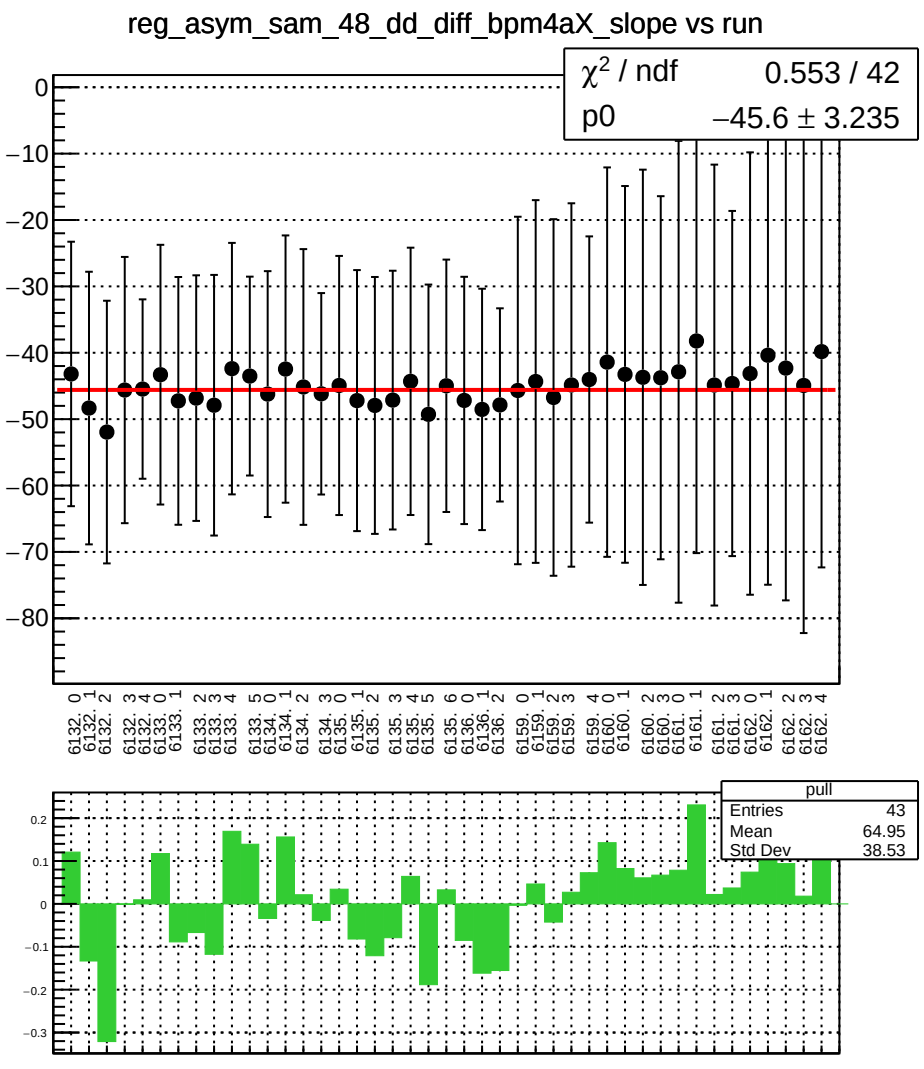

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.303 / 42
p0 −9.751 ± 2.592
pull
Entries 43
Mean 46.13
Std Dev 20.03

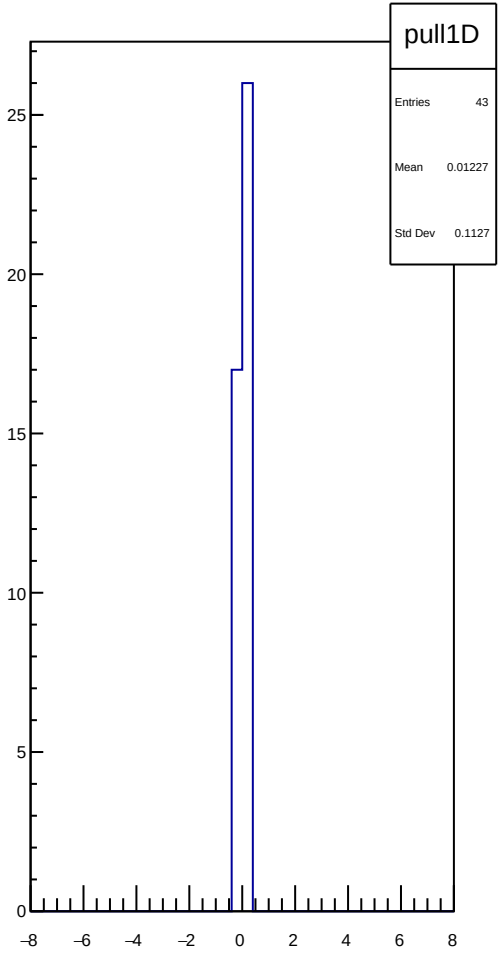

pull1D
Entries 43
Mean 0.03096
Std Dev 0.2294

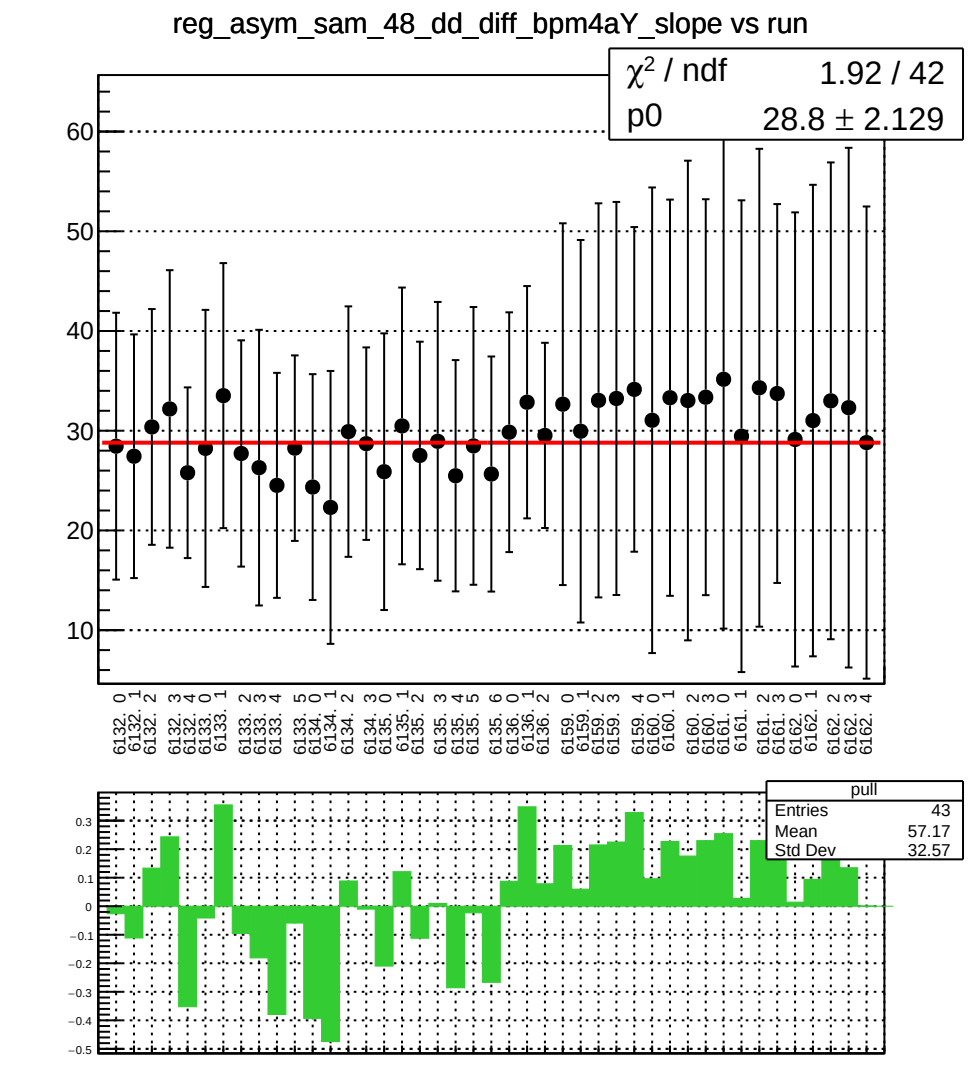

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.669 / 42
p0 −93.15 ± 4.594
pull
Entries 43
Mean 62.08
Std Dev 36.71
pull1D
Entries 43
Mean −0.03474
Std Dev 0.1939

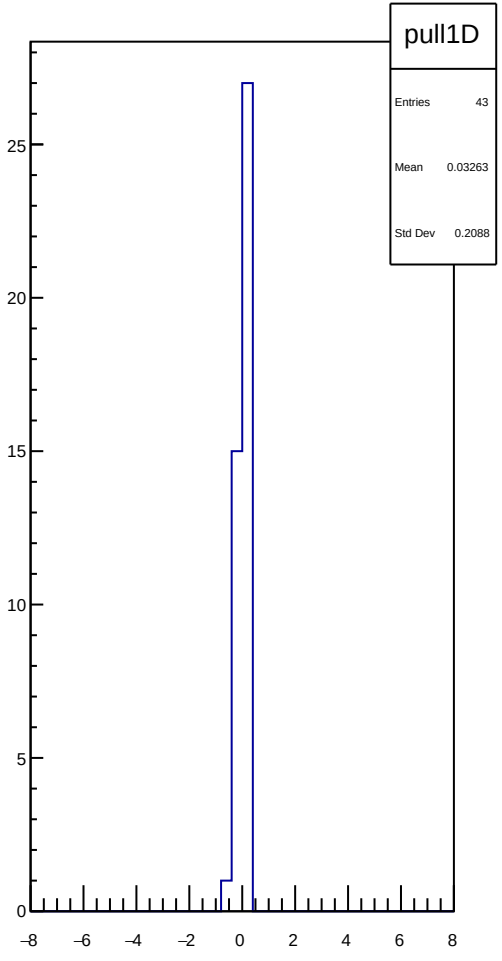

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.341 / 42
p0 150.8 ± 2.747
180
170
160
150
140
130
120
110
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 53.22
Std Dev 28.83
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 43
Mean −0.0504
Std Dev 0.2742
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

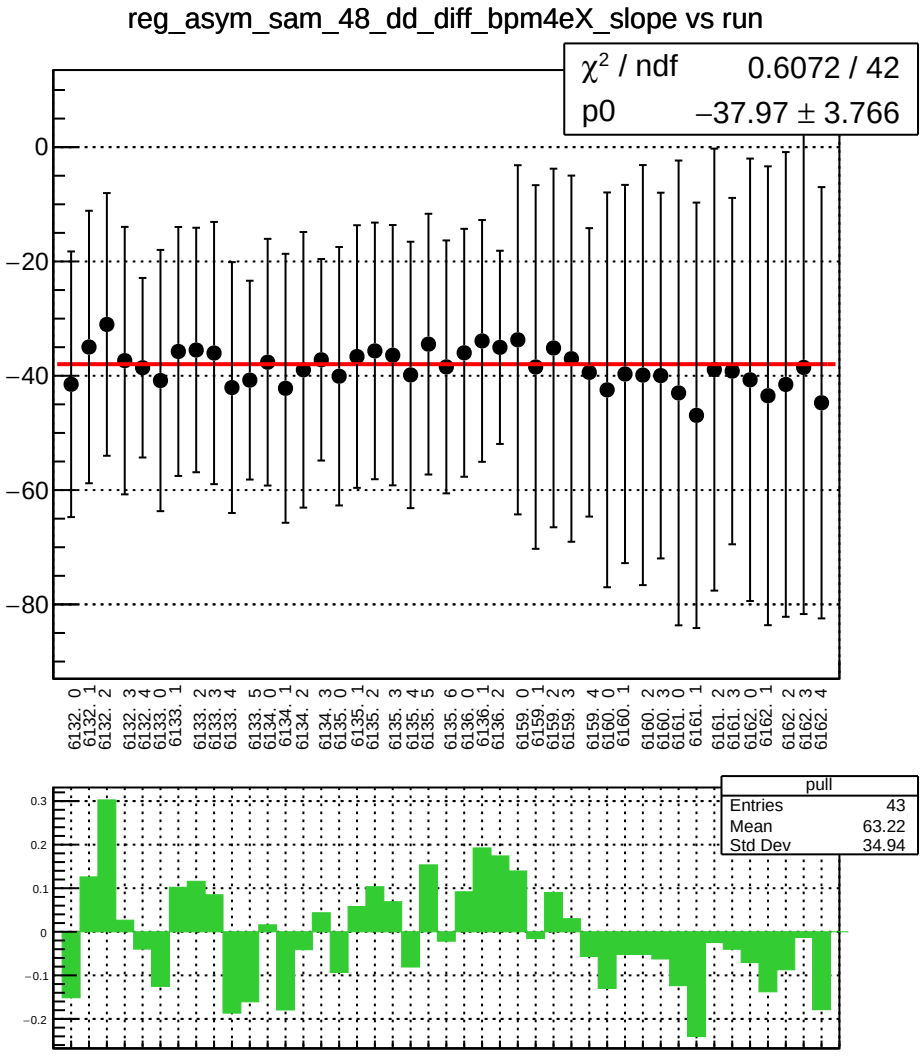

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 2.549 / 42
p0 −1.526 ± 0.2036
pull
Entries 43
Mean 53.37
Std Dev 27.09
pull1D
Entries 43
Mean 0.04522
Std Dev 0.2392

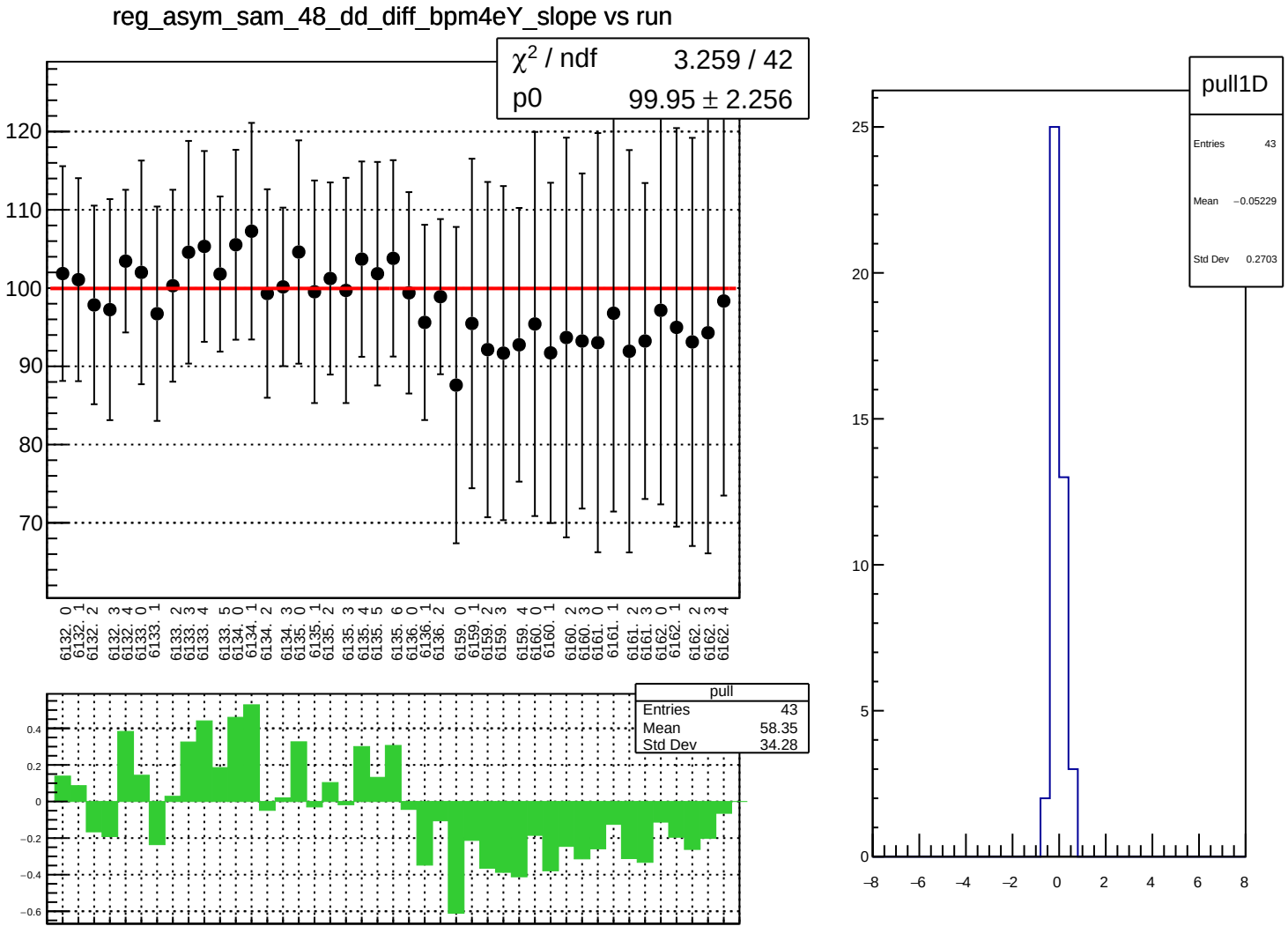

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.553 / 42
p0 −45.6 ± 3.235
pull
Entries 43
Mean 64.95
Std Dev 38.53

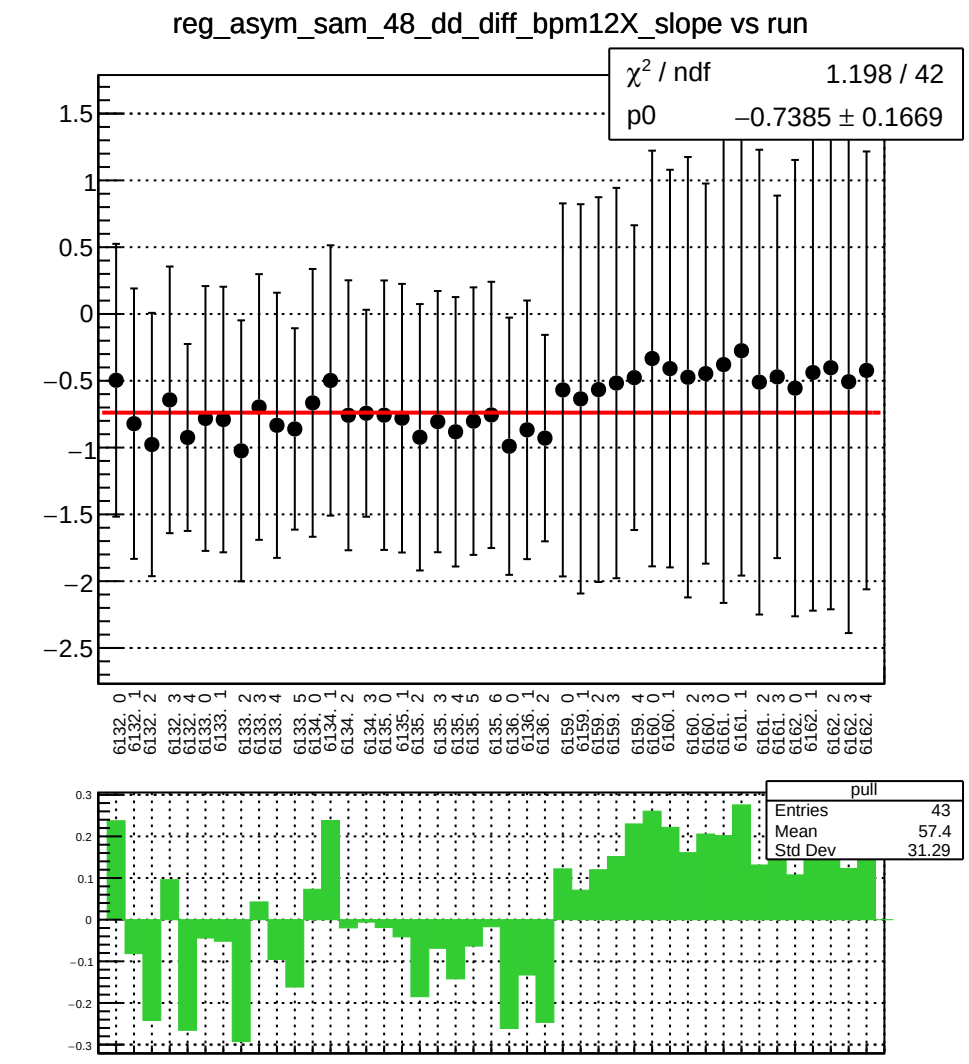

pull1D
Entries 43
Mean 0.01227
Std Dev 0.1127

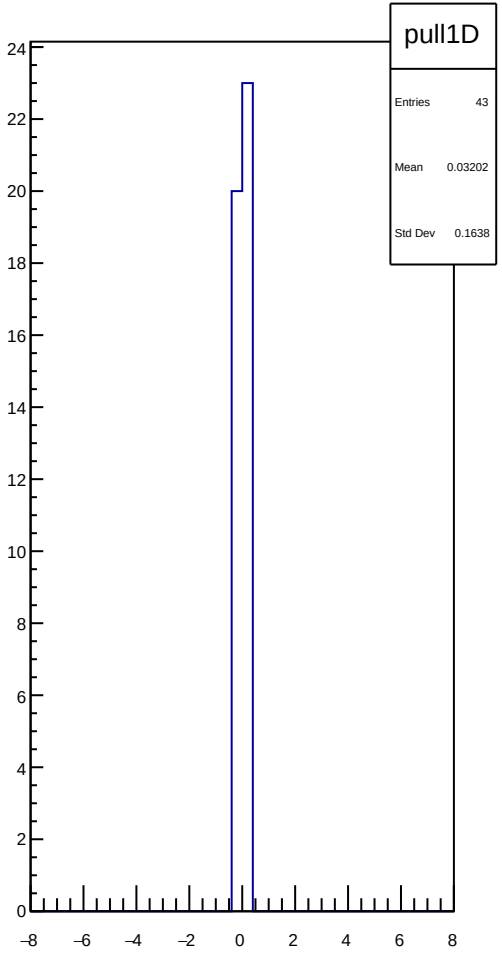

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.92 / 42
p0 28.8 ± 2.129
pull
Entries 43
Mean 57.17
Std Dev 32.57

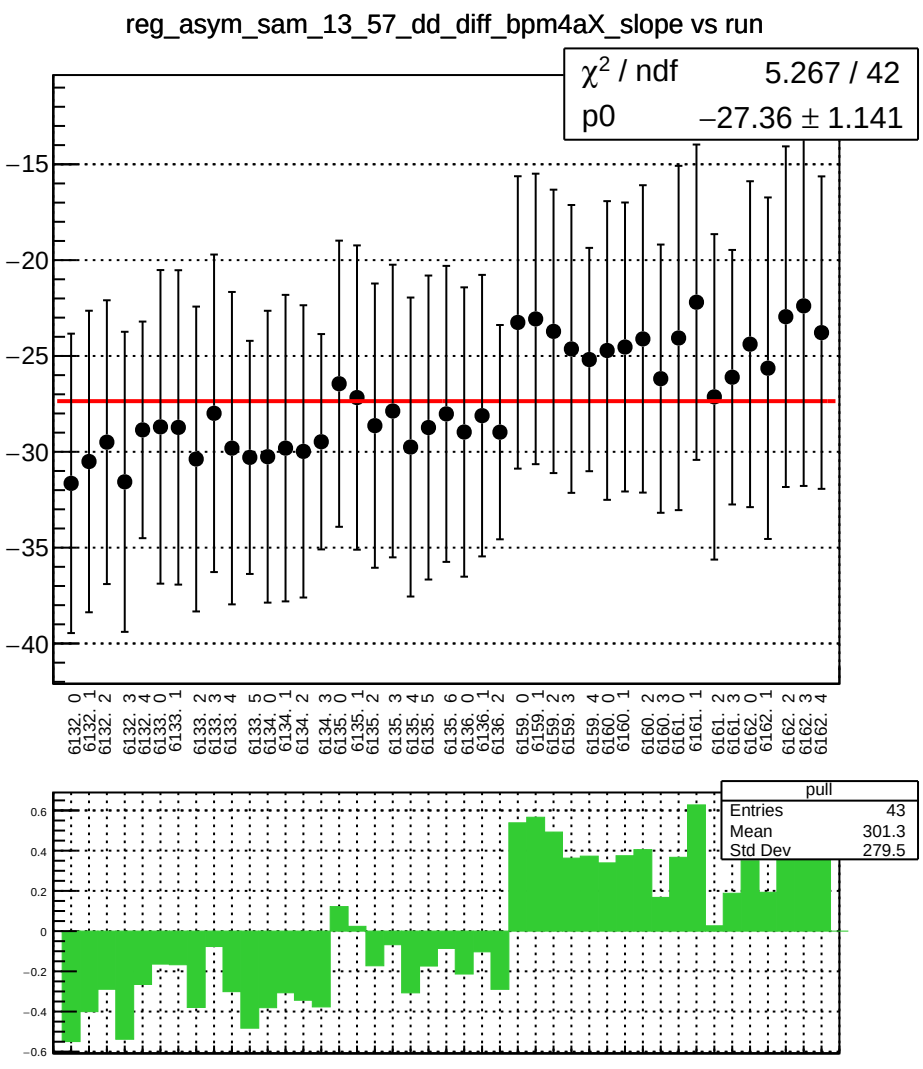

pull1D
Entries 43
Mean 0.03263
Std Dev 0.2088

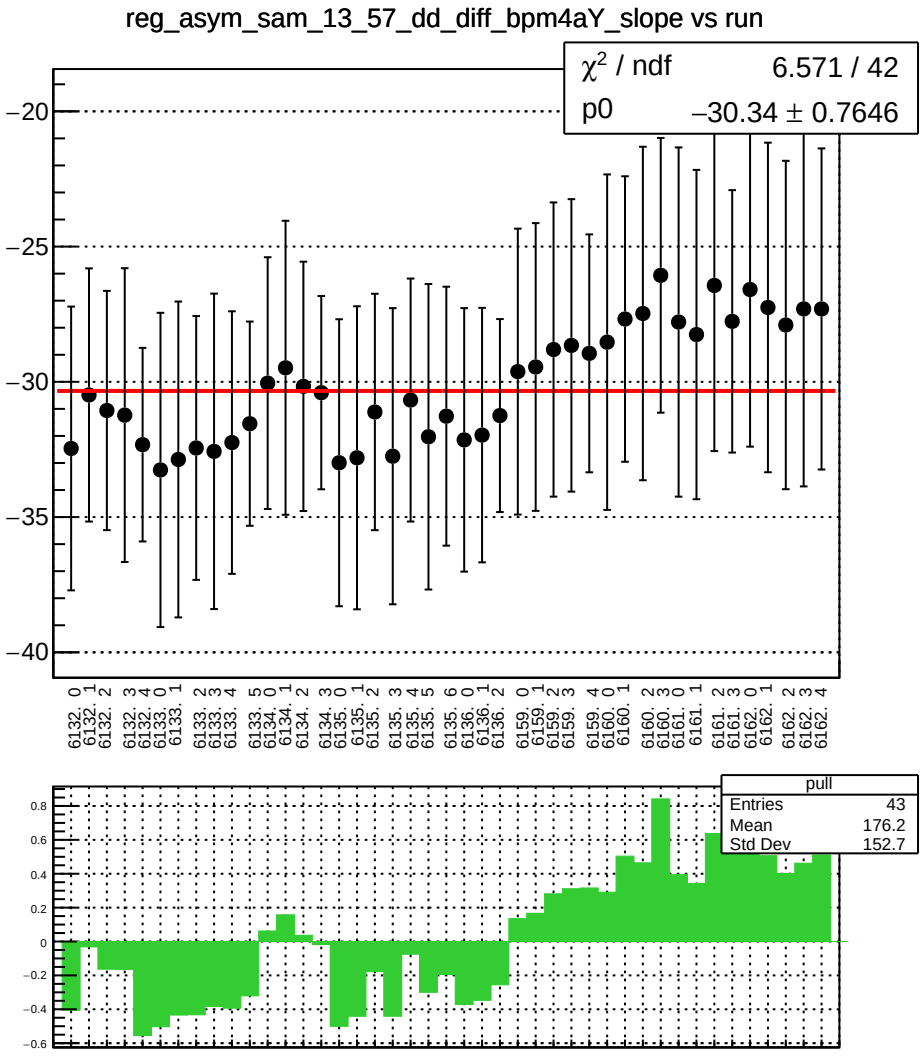

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.6072 / 42
p0 −37.97 ± 3.766
0
−20
−40
−60
−80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 63.22
Std Dev 34.94
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 43
Mean −0.01036
Std Dev 0.1184
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

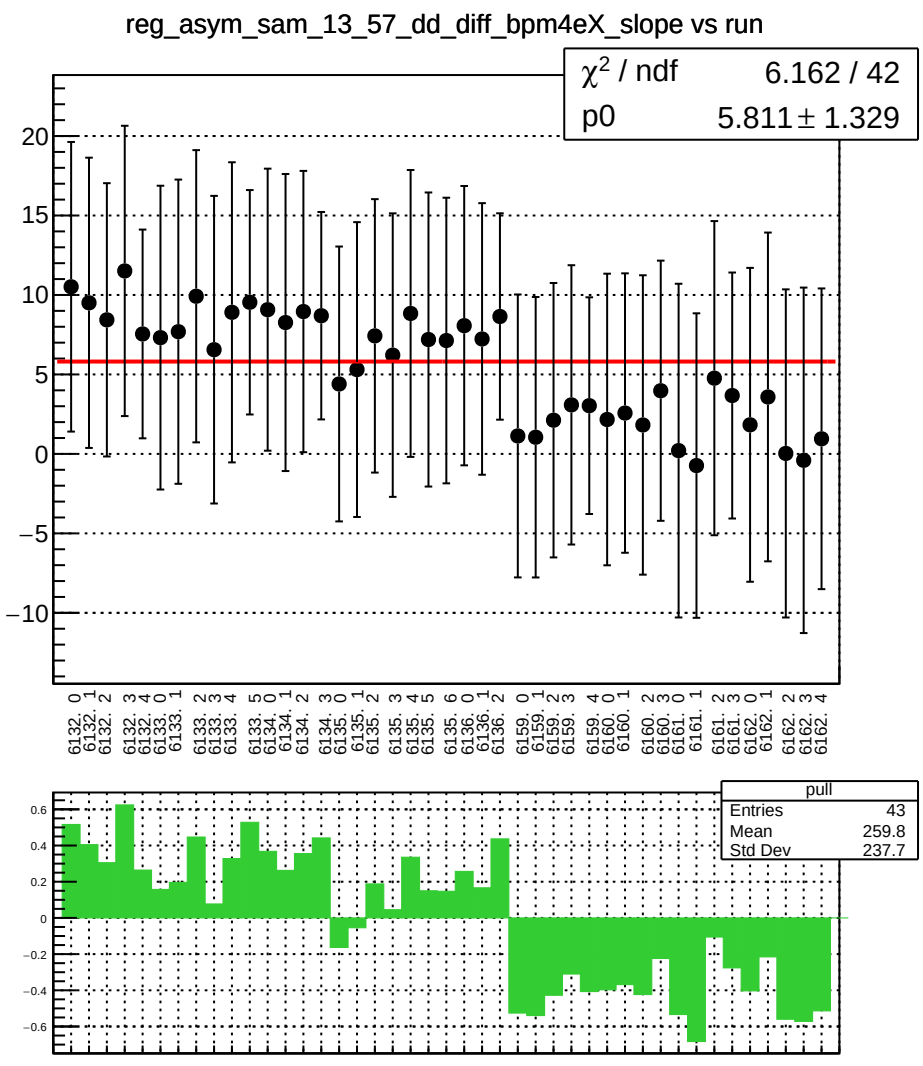

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.259 / 42
p0 99.95 ± 2.256
120
110
100
90
80
70
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 58.35
Std Dev 34.28
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean −0.05229
Std Dev 0.2703
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

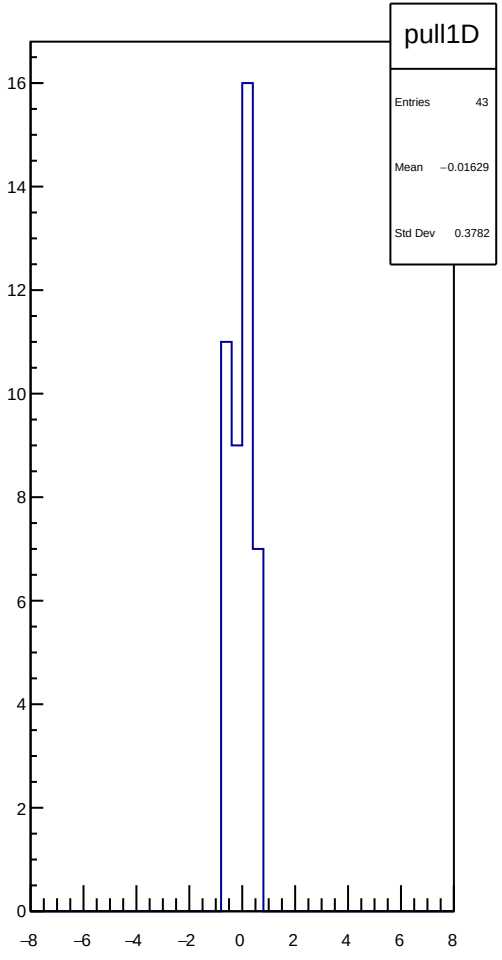

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1.198 / 42
p0 −0.7385 ± 0.1669
pull
Entries 43
Mean 57.4
Std Dev 31.29

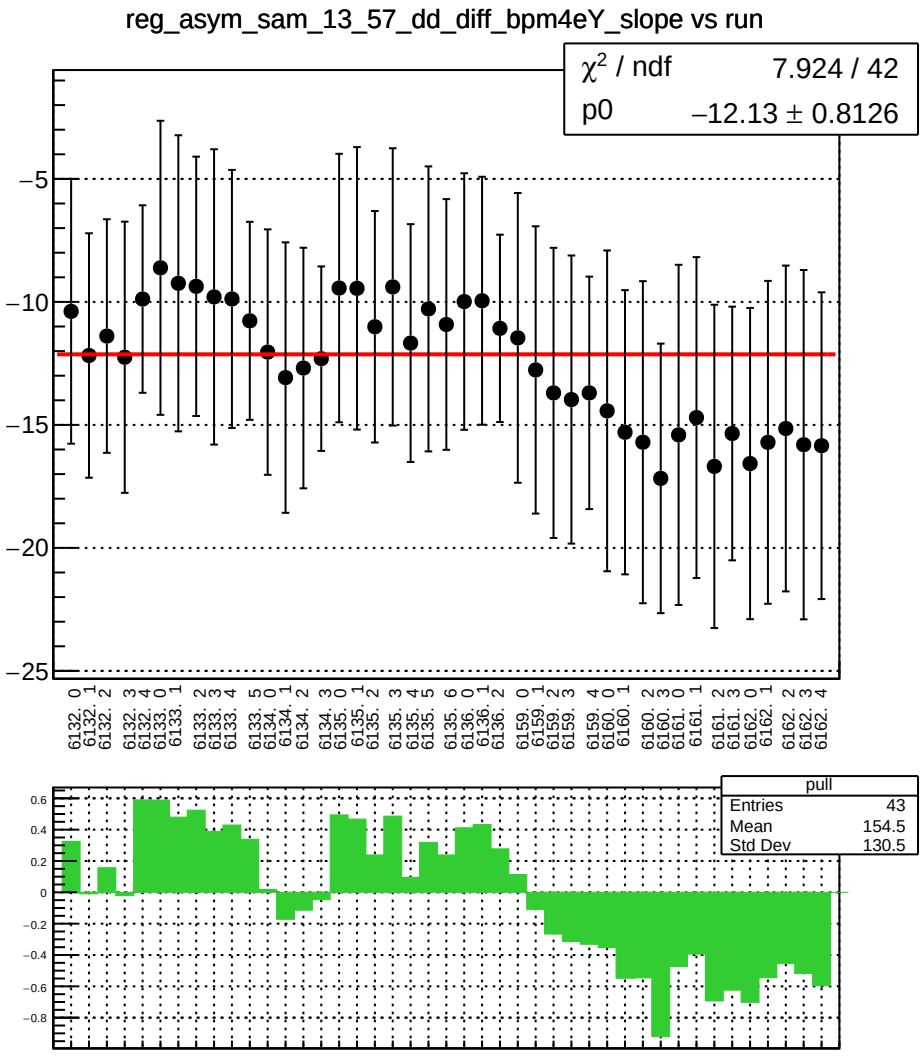

pull1D
Entries 43
Mean 0.03202
Std Dev 0.1638

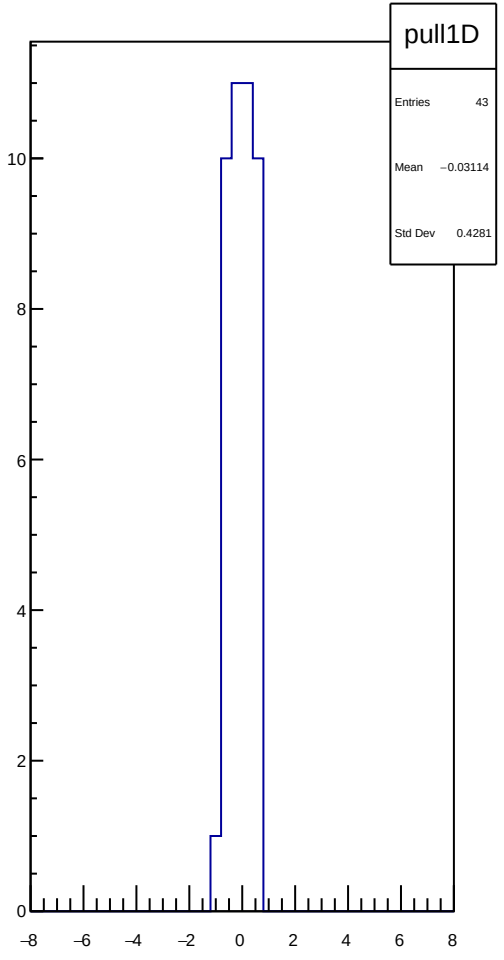

reg_asym_sam_13_57_dd_diff_bpm4aX_slope vs run
χ² / ndf 5.267 / 42
p0 −27.36 ± 1.141
−15
−20
−25
−30
−35
−40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 301.3
Std Dev 279.5
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean 0.01275
Std Dev 0.3497
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

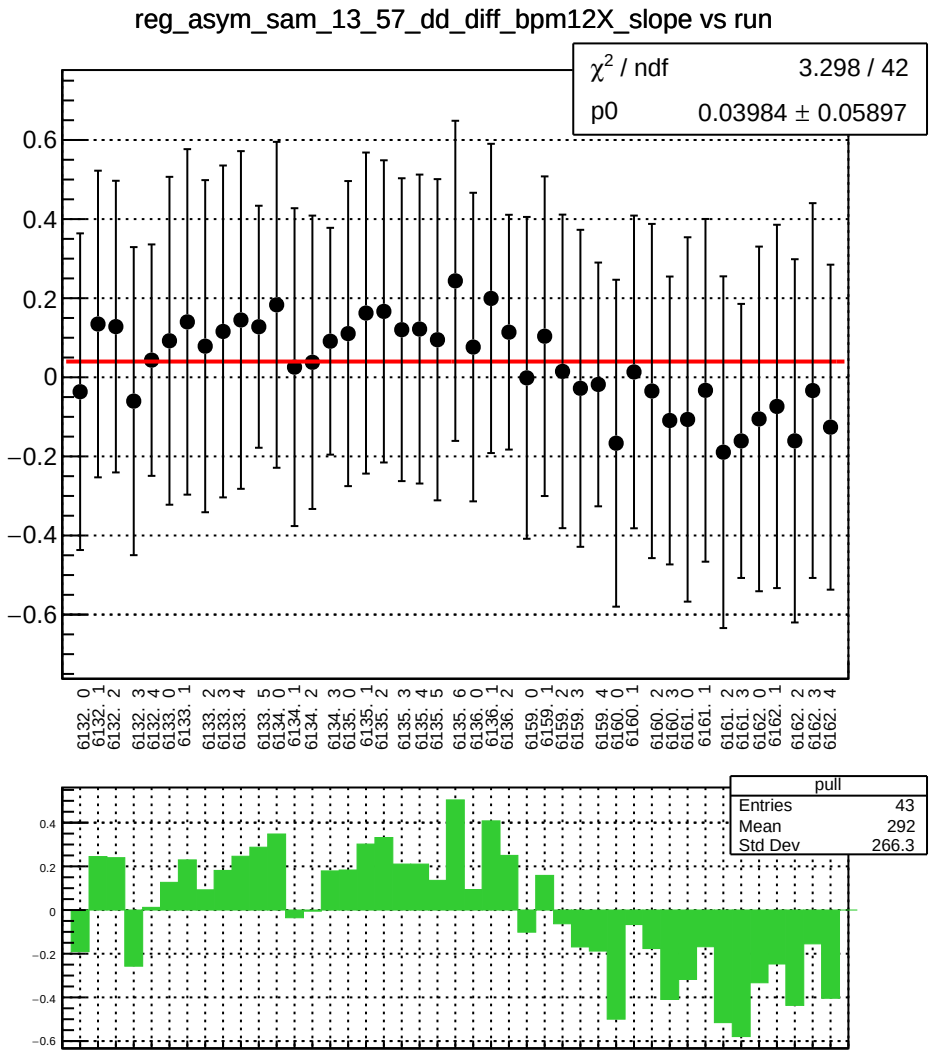

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.571 / 42
p0 −30.34 ± 0.7646
−20
−25
−30
−35
−40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 176.2
Std Dev 152.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean 0.02531
Std Dev 0.3901
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

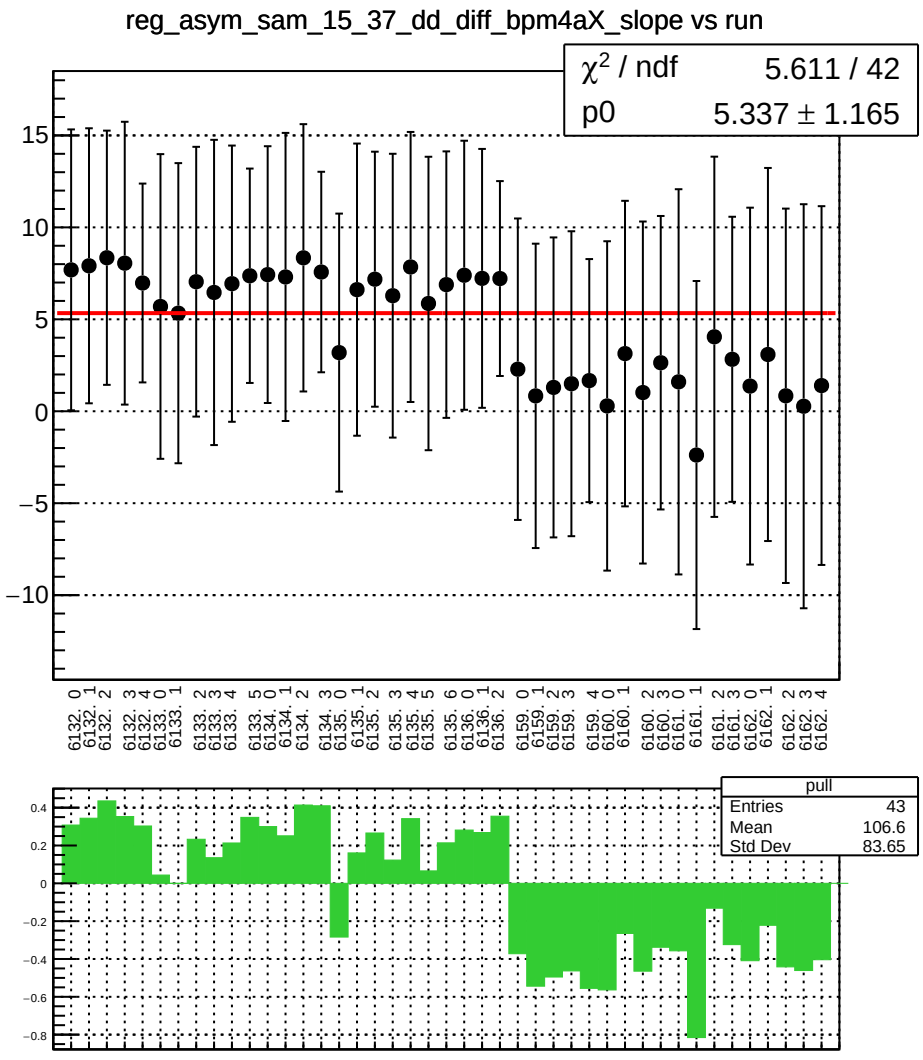

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.162 / 42
p0 5.811 ± 1.329
pull
Entries 43
Mean 259.8
Std Dev 237.7

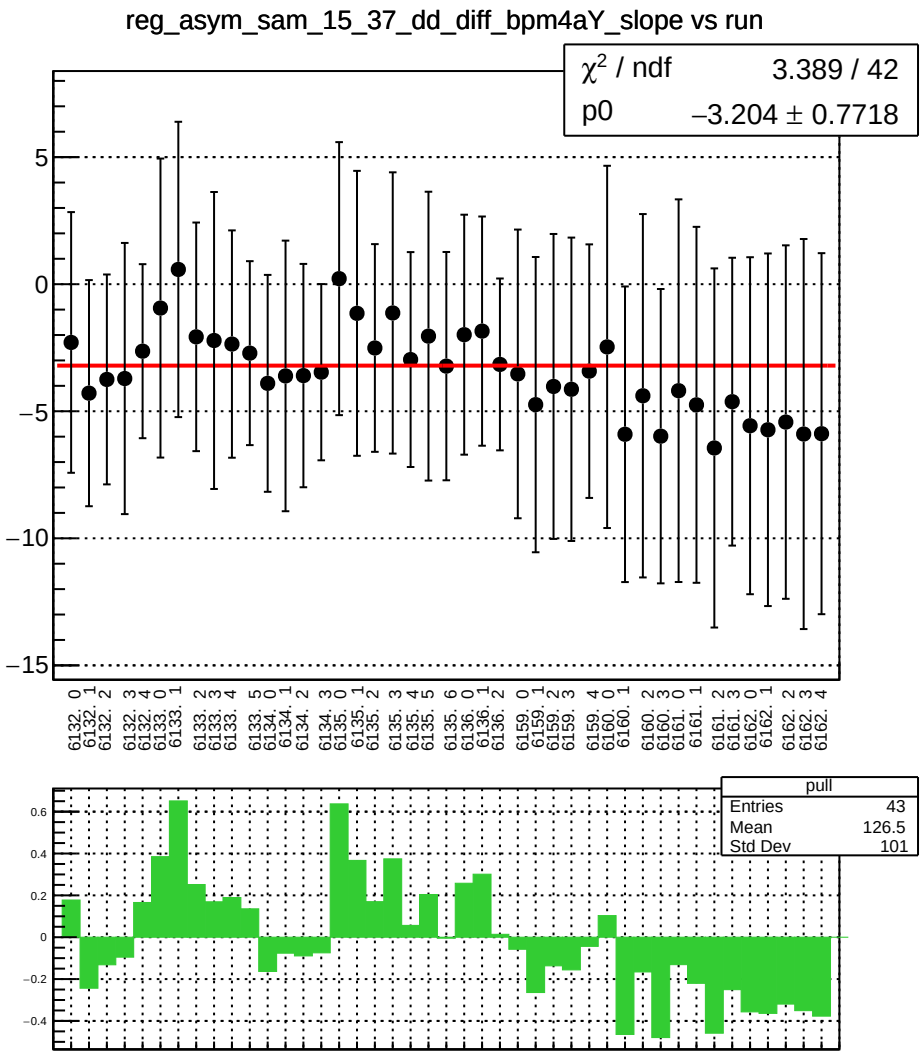

pull1D
Entries 43
Mean −0.01629
Std Dev 0.3782

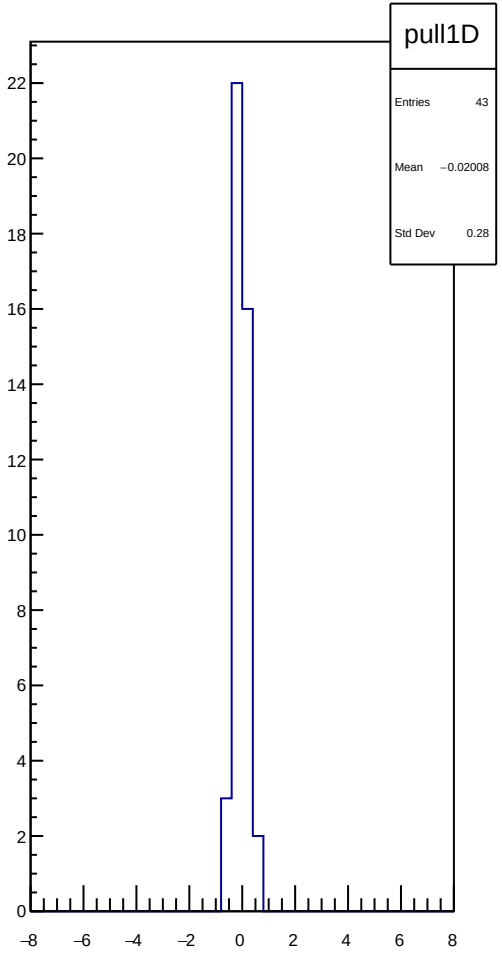

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.924 / 42
p0 −12.13 ± 0.8126
pull
Entries 43
Mean 154.5
Std Dev 130.5

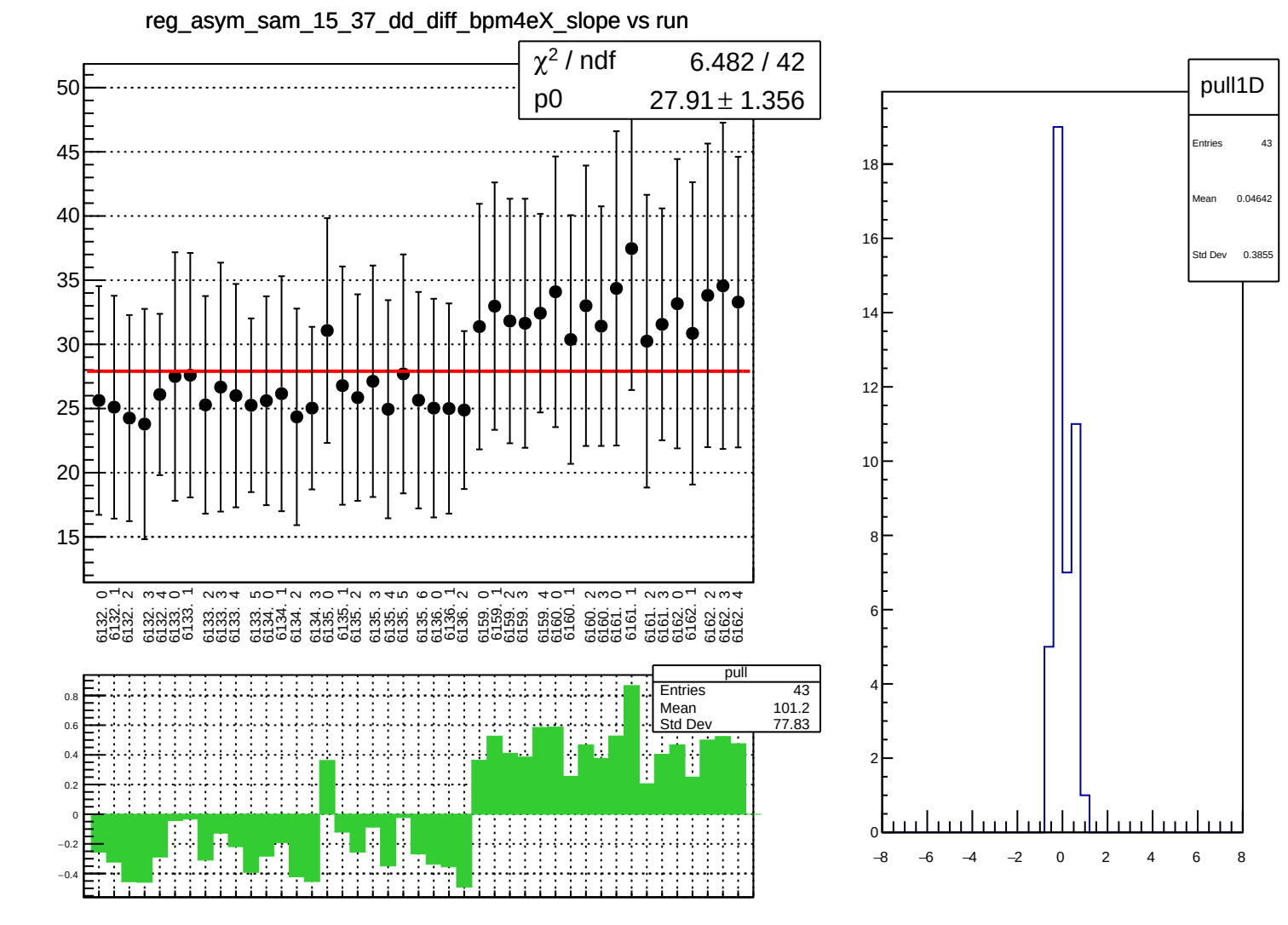

pull1D
Entries 43
Mean −0.03114
Std Dev 0.4281

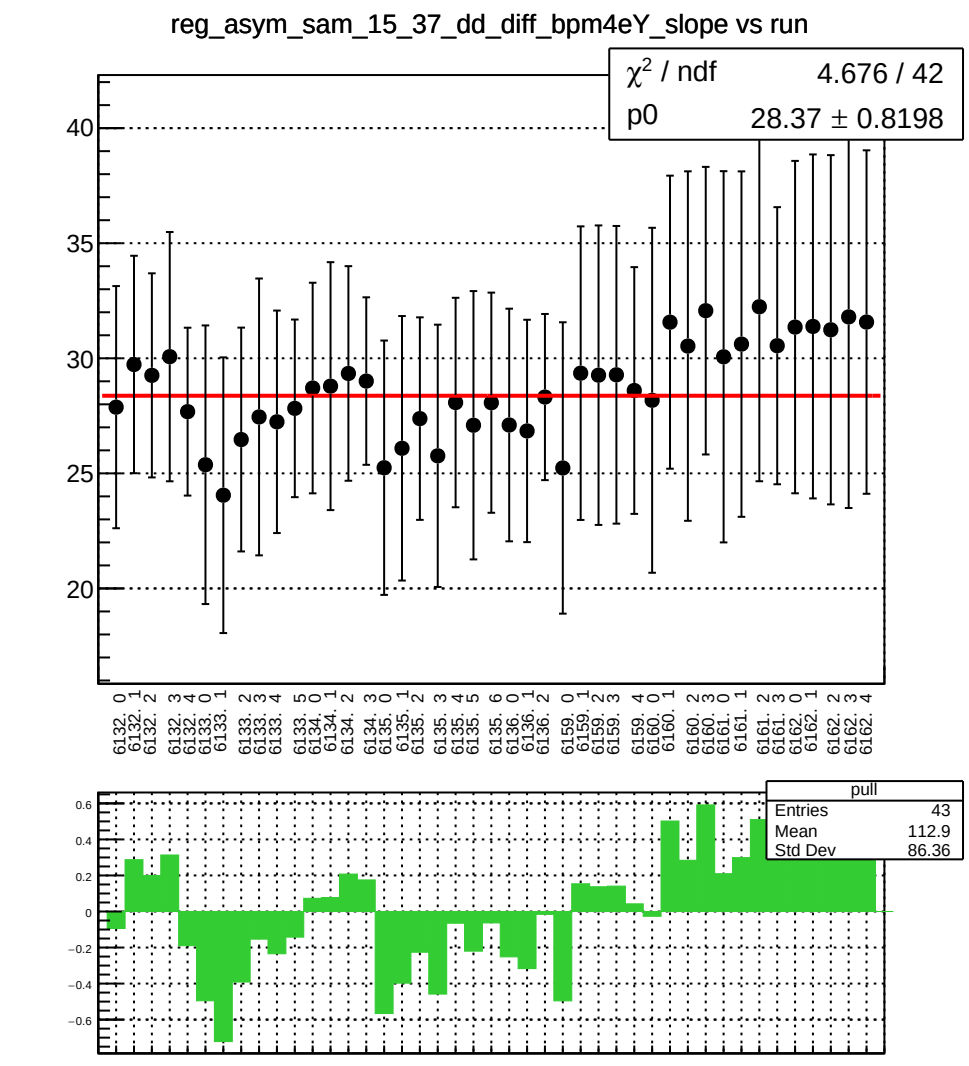

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 3.298 / 42
p0 0.03984 ± 0.05897
pull
Entries 43
Mean 292
Std Dev 266.3
pull1D
Entries 43
Mean −0.007931
Std Dev 0.2768

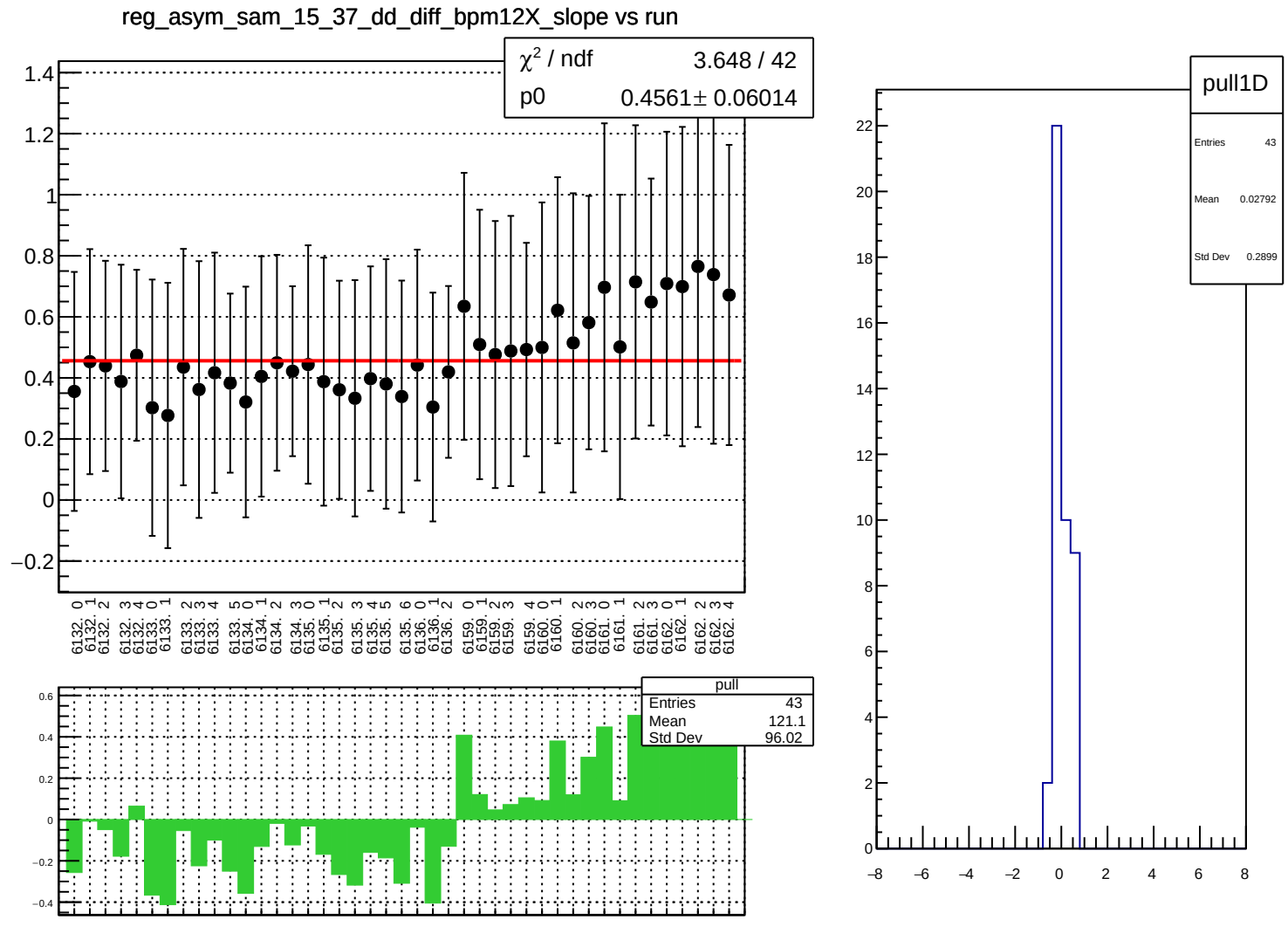

reg_asym_sam_15_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 5.611 / 42
p0 5.337 ± 1.165
pull
Entries 43
Mean 106.6
Std Dev 83.65
pull1D
Entries 43
Mean −0.04046
Std Dev 0.359

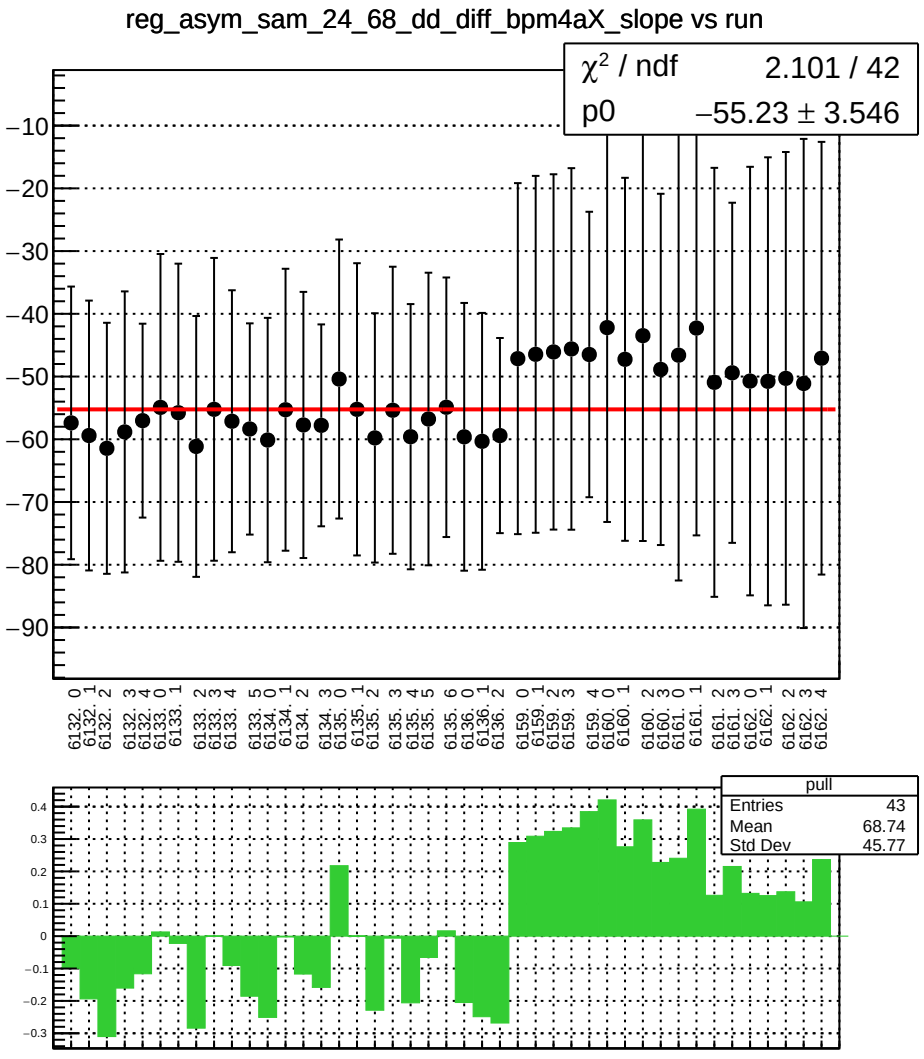

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.389 / 42
p0 −3.204 ± 0.7718
5
0
−5
−10
−15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 126.5
Std Dev 101
0.6
0.4
0.2
0
−0.2
−0.4

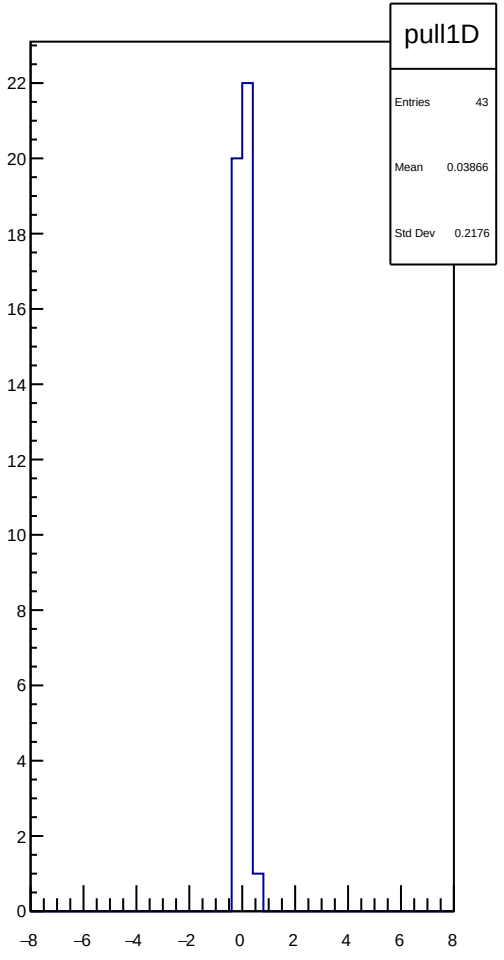

pull1D
Entries 43
Mean −0.02008
Std Dev 0.28
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

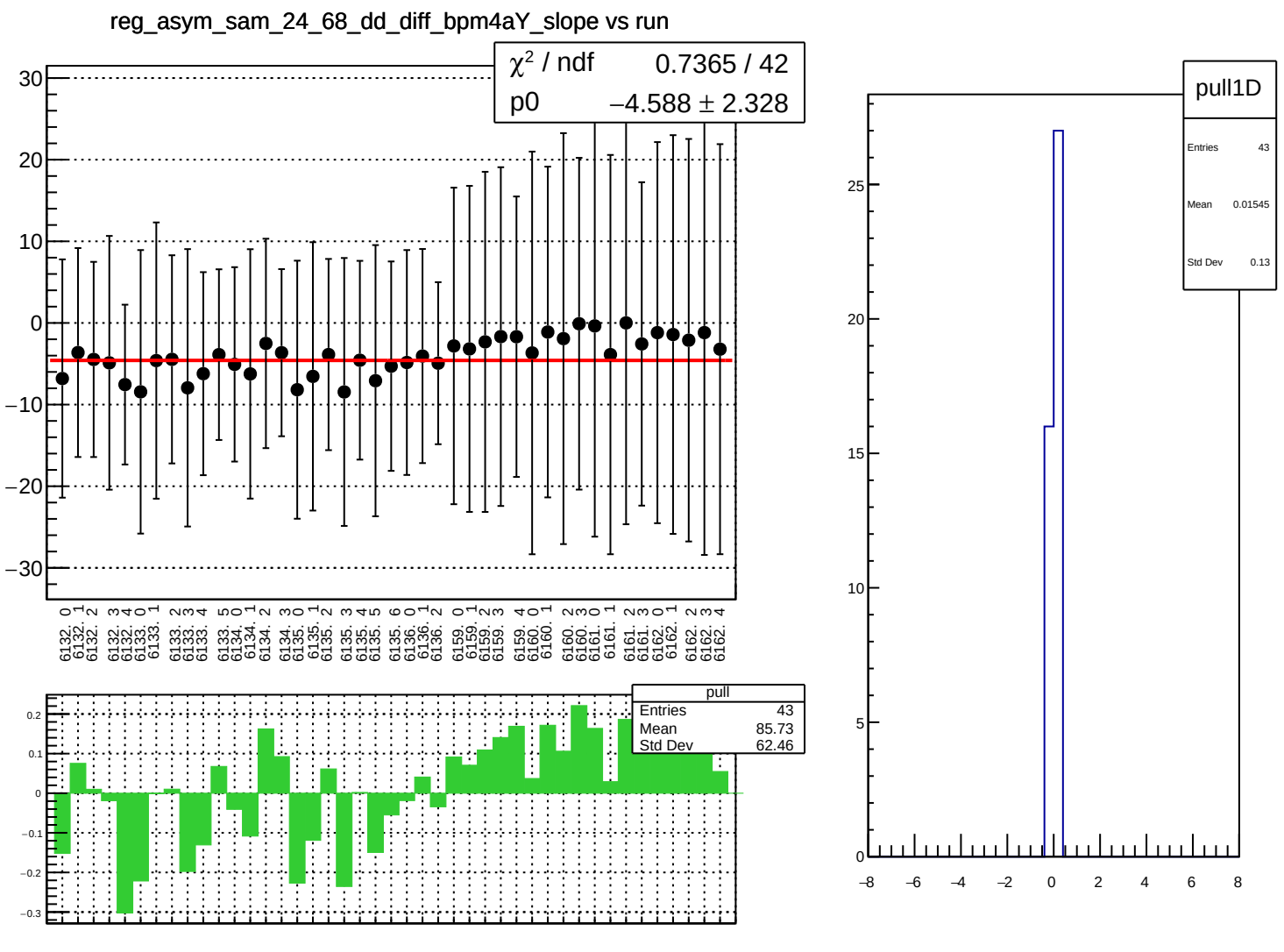

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.482 / 42
p0 27.91 ± 1.356
pull
Entries 43
Mean 101.2
Std Dev 77.83
pull1D
Entries 43
Mean 0.04642
Std Dev 0.3855

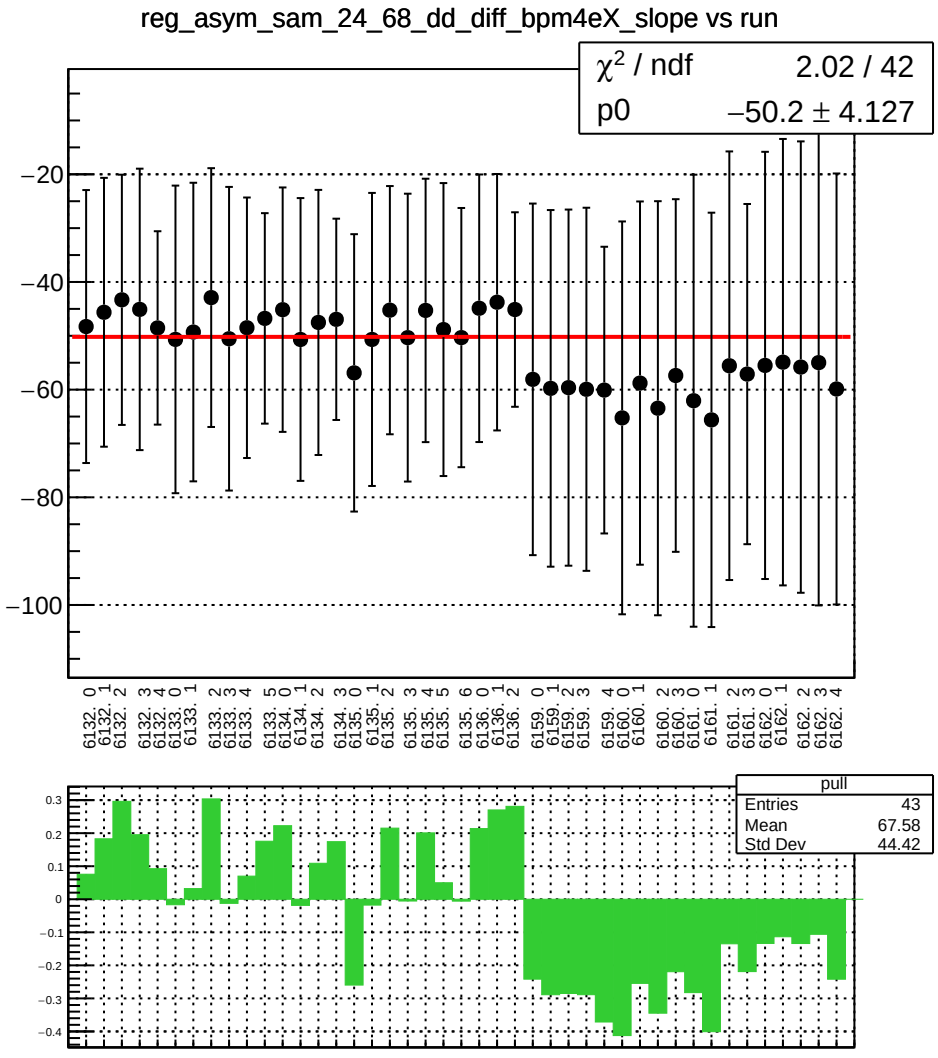

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.676 / 42
p0 28.37 ± 0.8198
40
35
30
25
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 112.9
Std Dev 86.36
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean 0.02503
Std Dev 0.3288
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

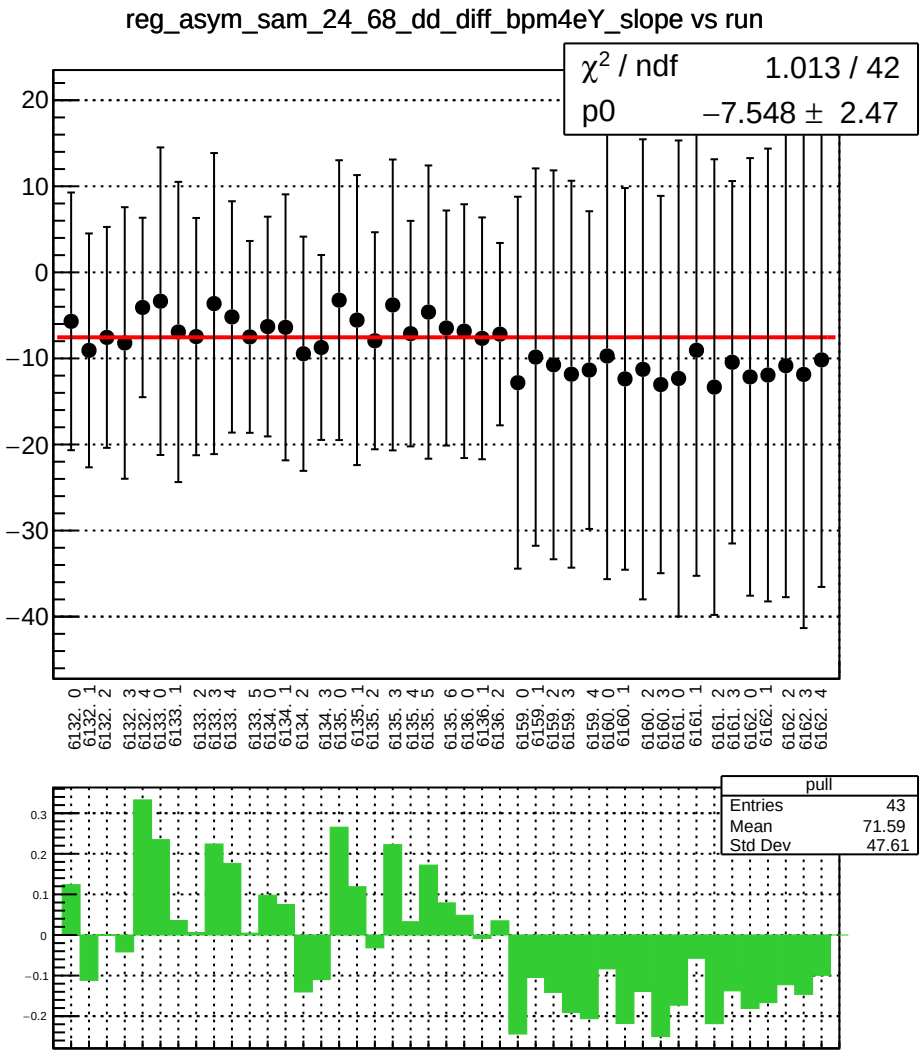

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 3.648 / 42
p0 0.4561± 0.06014
pull
Entries 43
Mean 121.1
Std Dev 96.02
pull1D
Entries 43
Mean 0.02792
Std Dev 0.2899

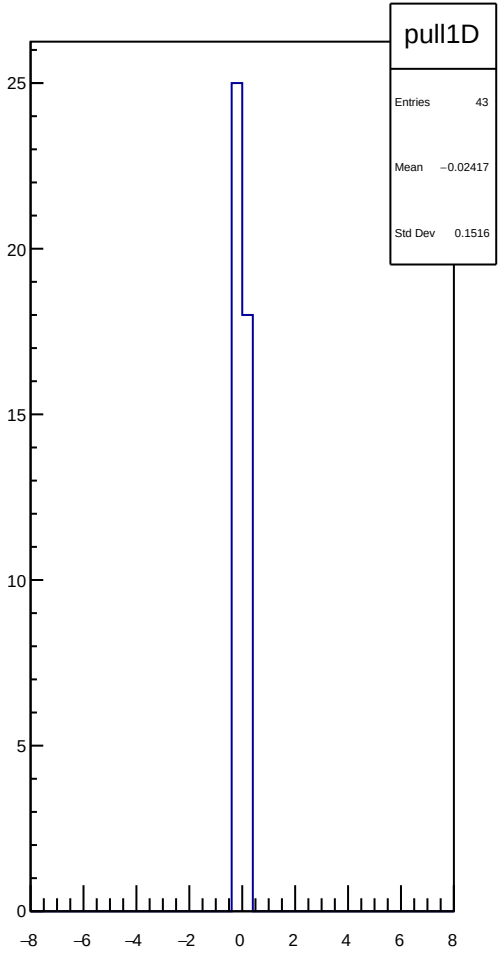

reg_asym_sam_24_68_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.101 / 42
p0 −55.23 ± 3.546
pull
Entries 43
Mean 68.74
Std Dev 45.77

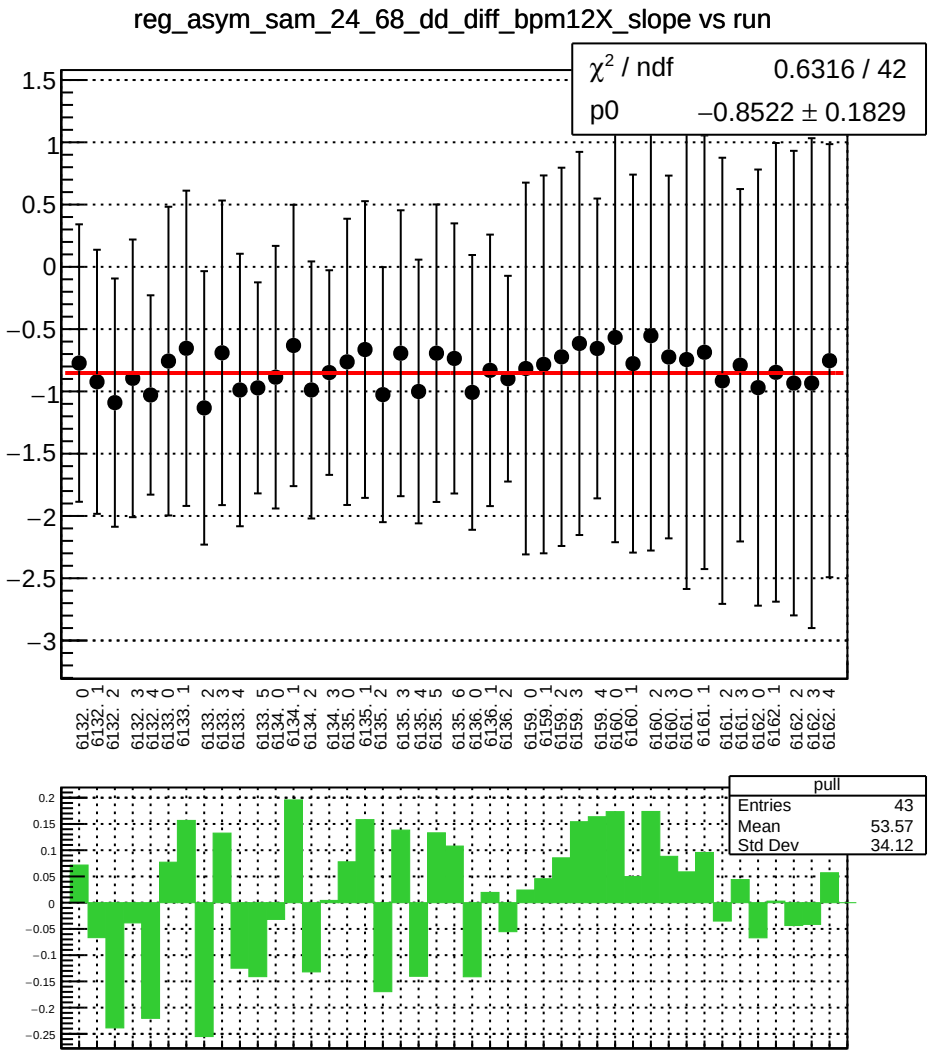

pull1D
Entries 43
Mean 0.03866
Std Dev 0.2176

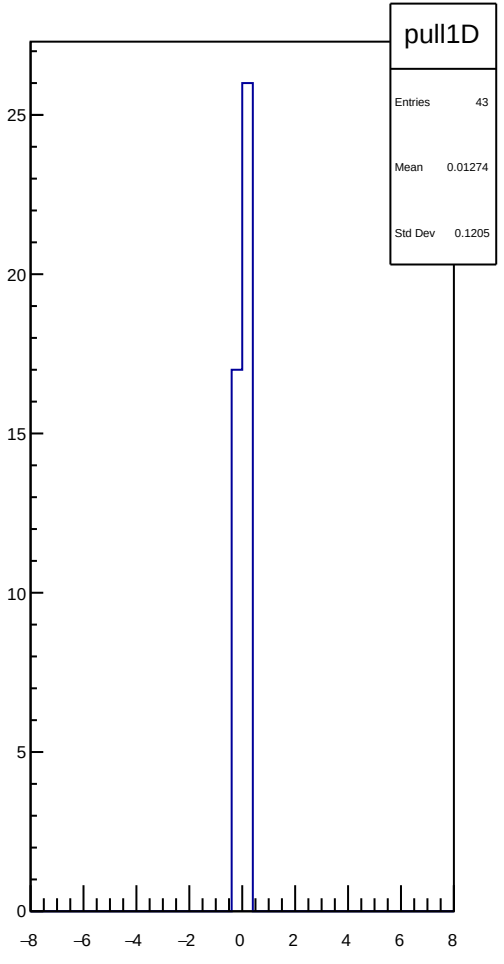

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.7365 / 42
p0 −4.588 ± 2.328
pull
Entries 43
Mean 85.73
Std Dev 62.46
pull1D
Entries 43
Mean 0.01545
Std Dev 0.13

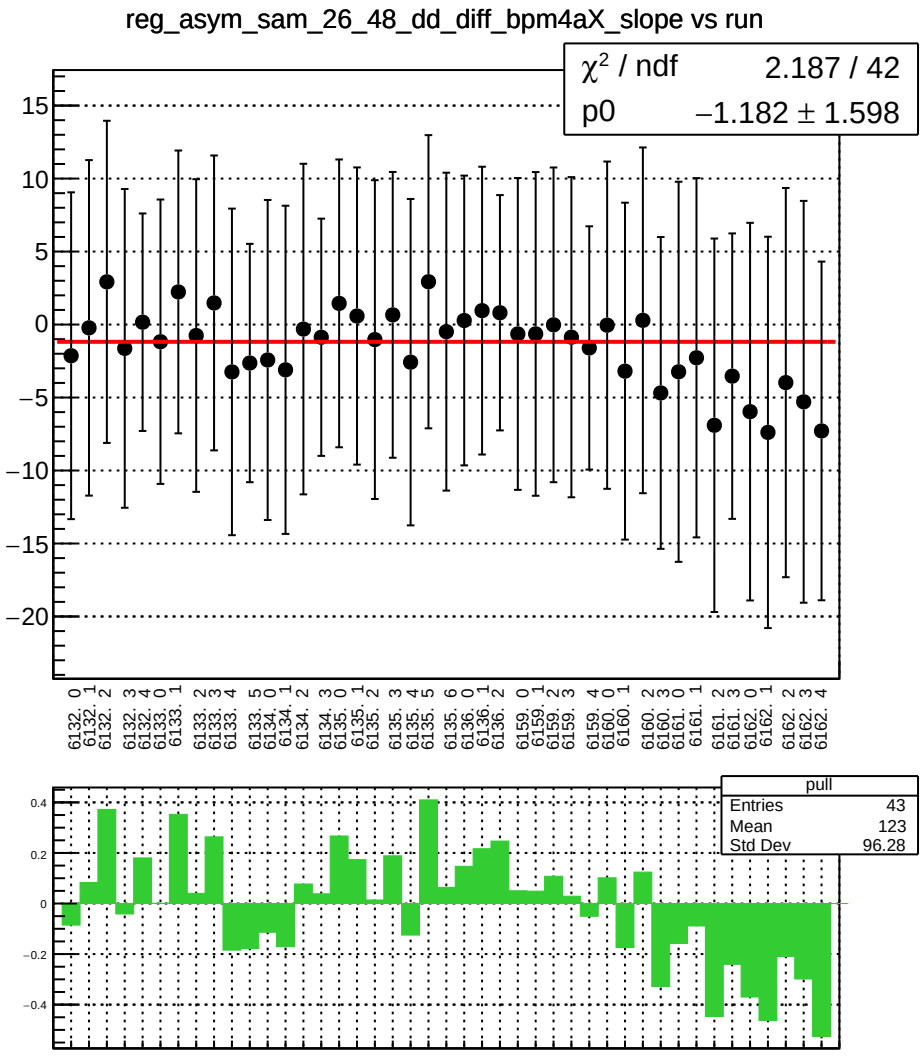

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.02 / 42
p0 −50.2 ± 4.127
−20
−40
−60
−80
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 67.58
Std Dev 44.42
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 43
Mean −0.0383
Std Dev 0.2134
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

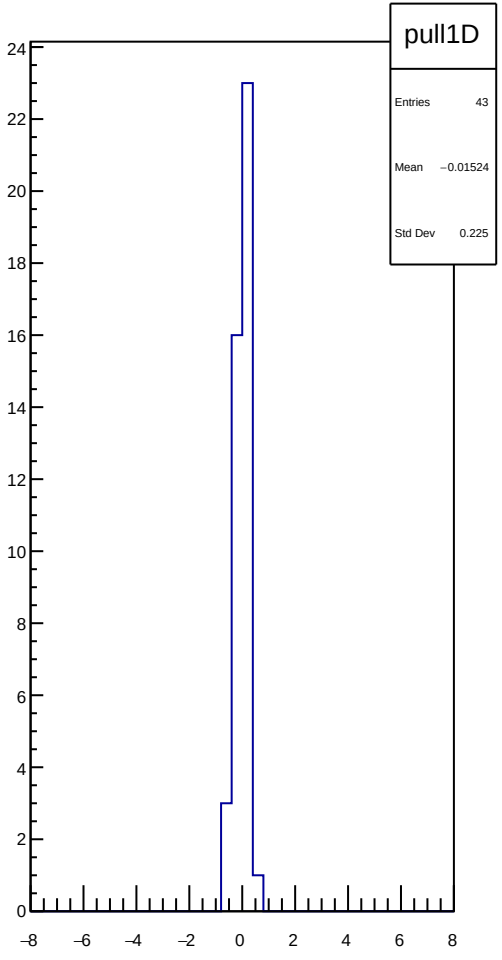

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.013 / 42
p0 −7.548 ± 2.47
pull
Entries 43
Mean 71.59
Std Dev 47.61

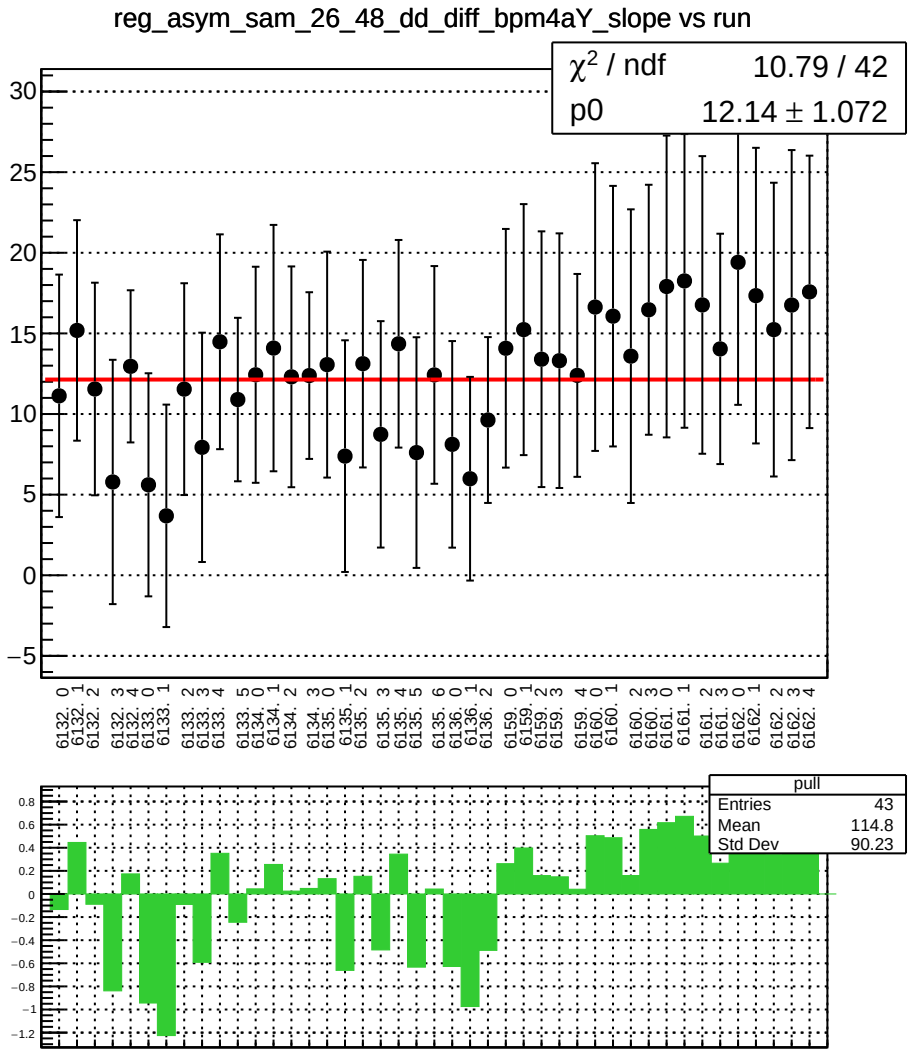

pull1D
Entries 43
Mean −0.02417
Std Dev 0.1516

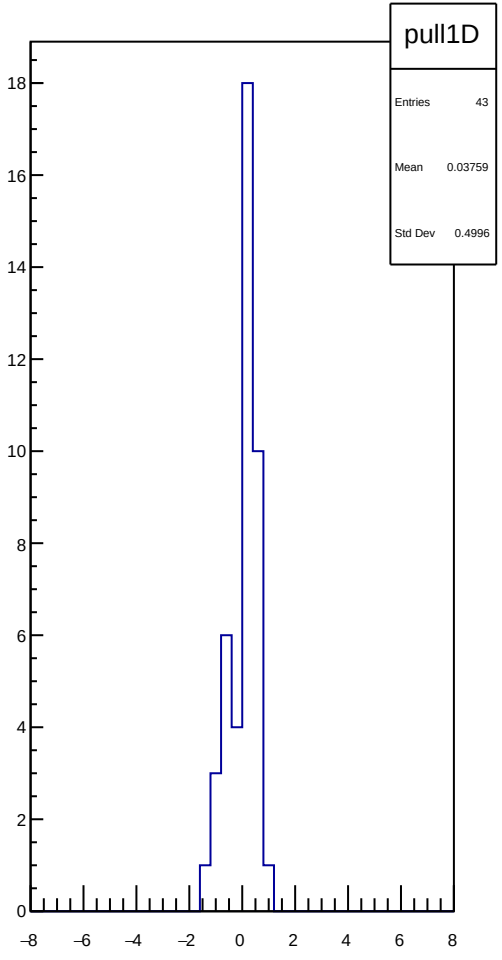

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.6316 / 42
p0 −0.8522 ± 0.1829
pull
Entries 43
Mean 53.57
Std Dev 34.12

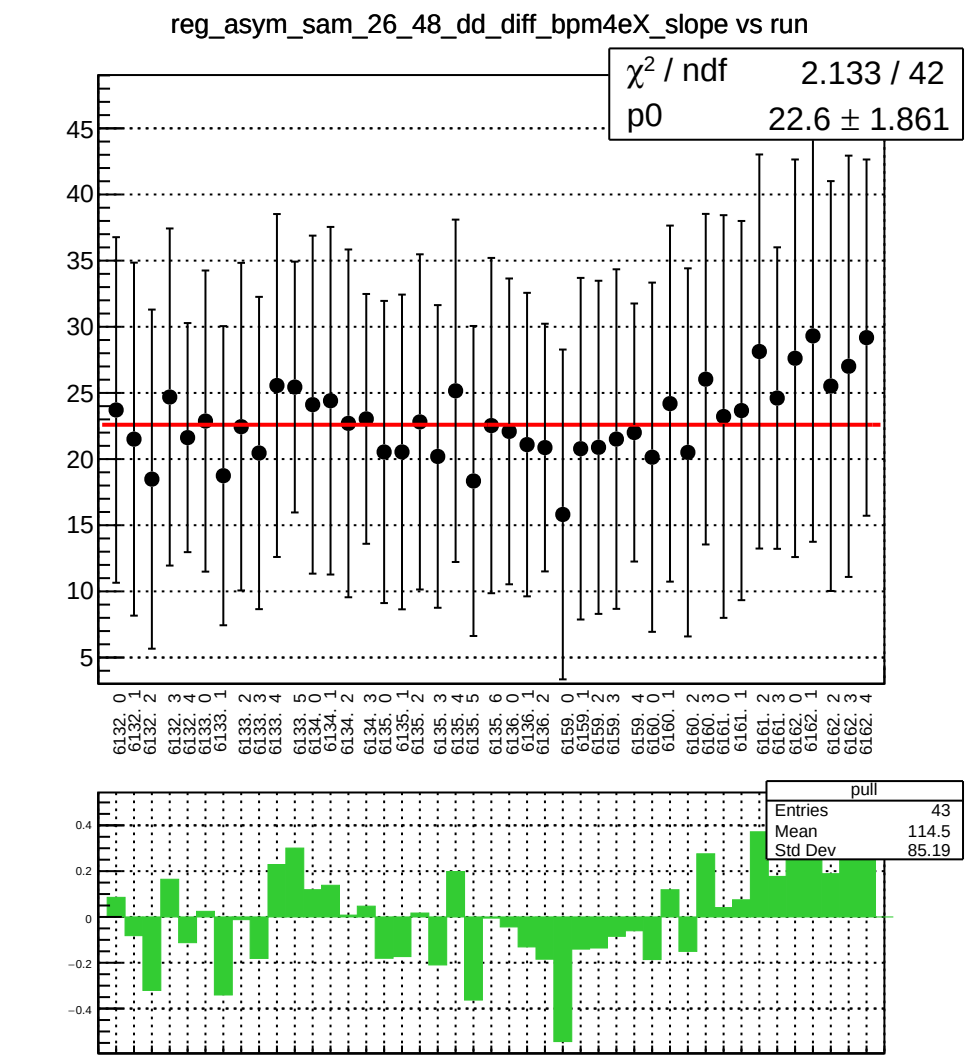

pull1D
Entries 43
Mean 0.01274
Std Dev 0.1205

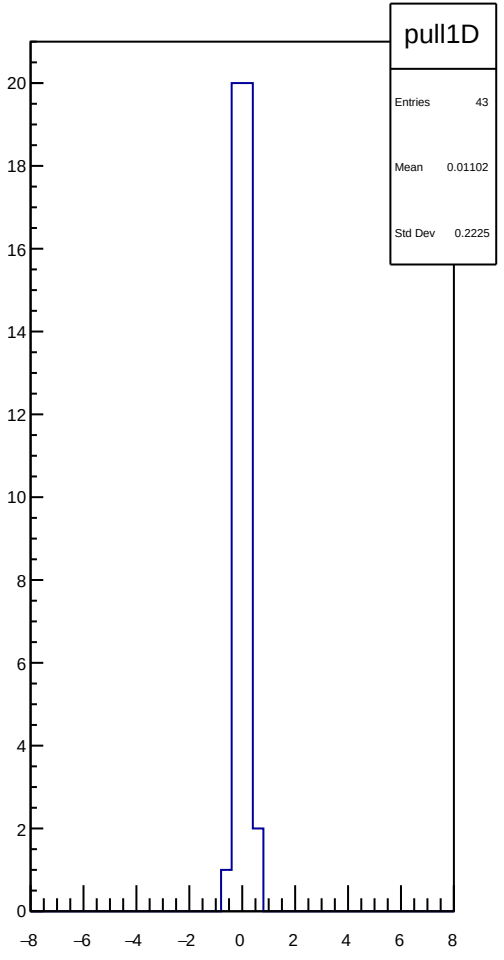

reg_asym_sam_26_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.187 / 42
p0 −1.182 ± 1.598
pull
Entries 43
Mean 123
Std Dev 96.28

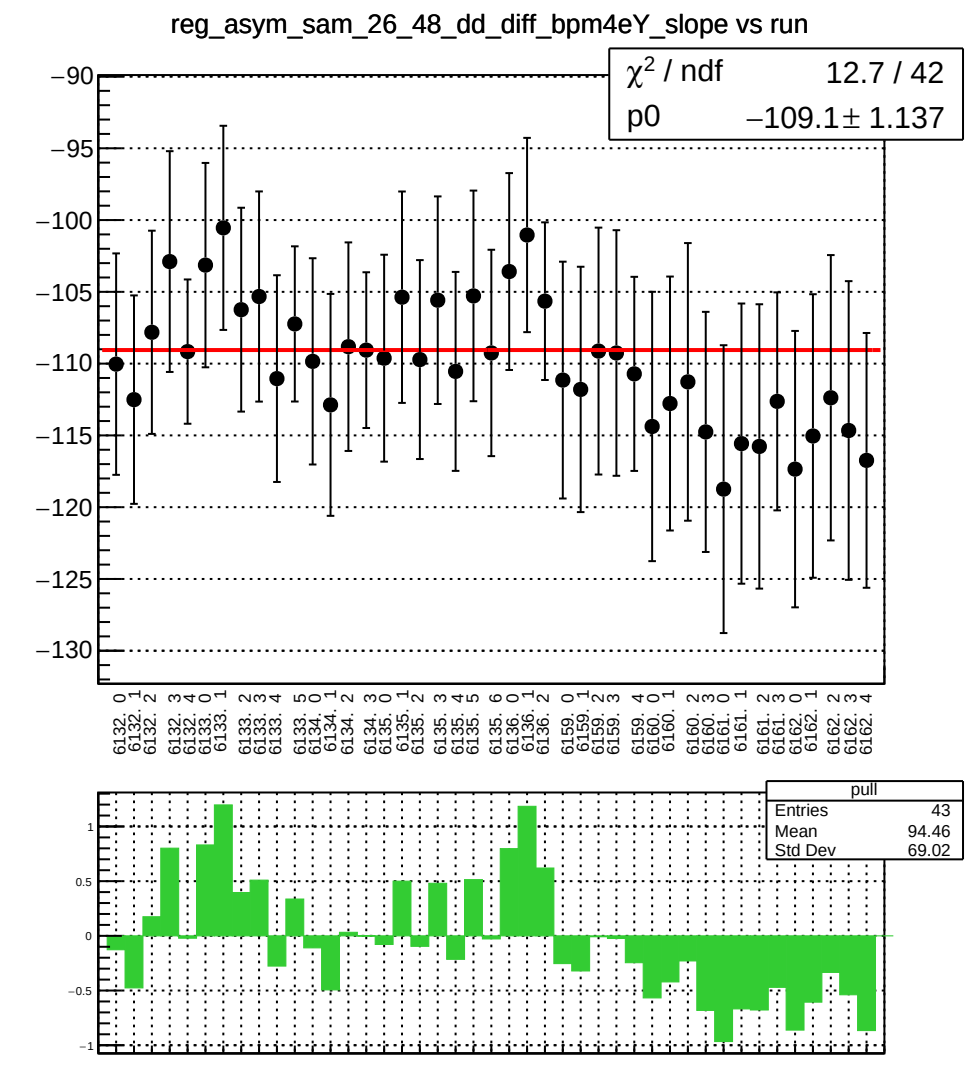

pull1D
Entries 43
Mean −0.01524
Std Dev 0.225

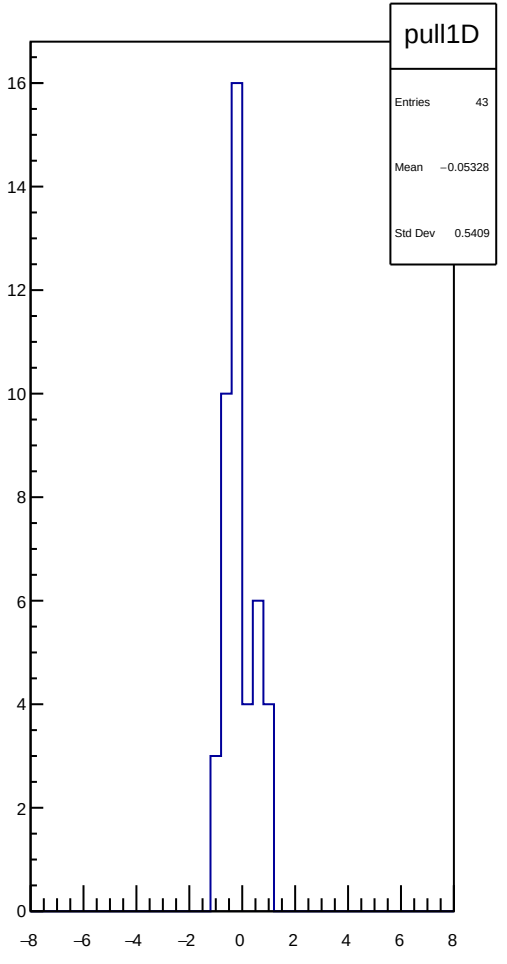

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.79 / 42
p0 12.14 ± 1.072
pull
Entries 43
Mean 114.8
Std Dev 90.23

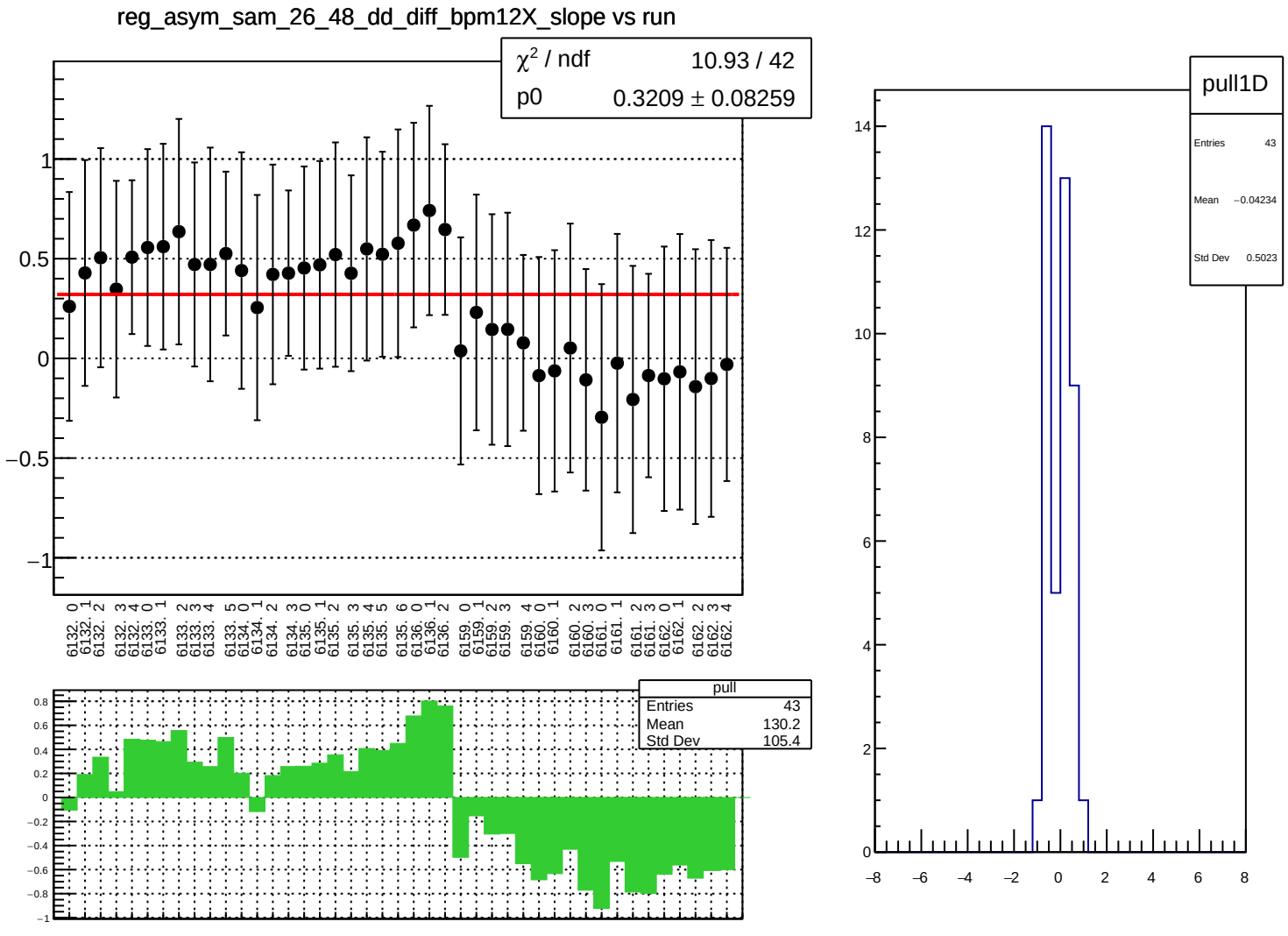

pull1D
Entries 43
Mean 0.03759
Std Dev 0.4996

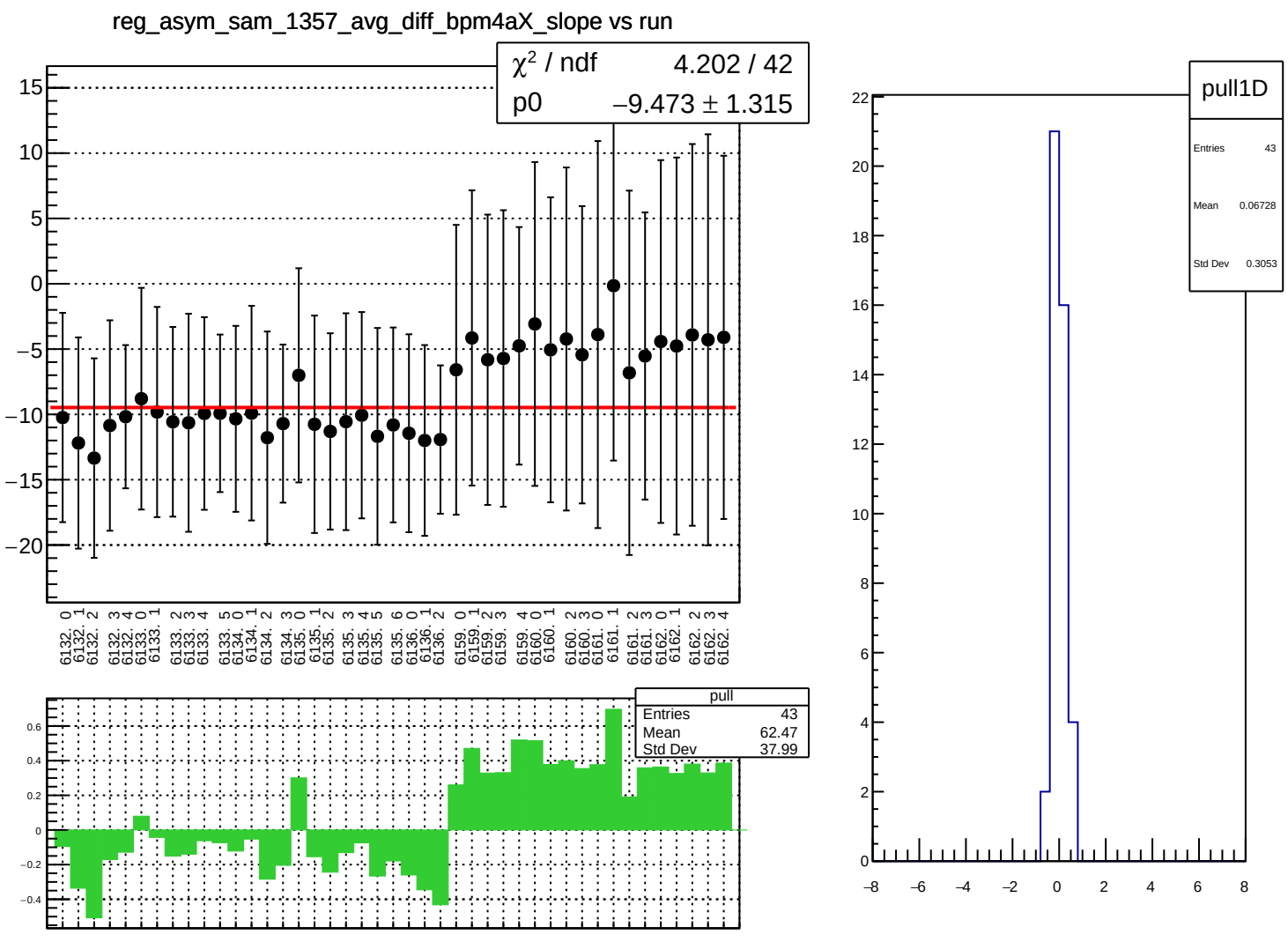

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.133 / 42
p0 22.6 ± 1.861
pull
Entries 43
Mean 114.5
Std Dev 85.19

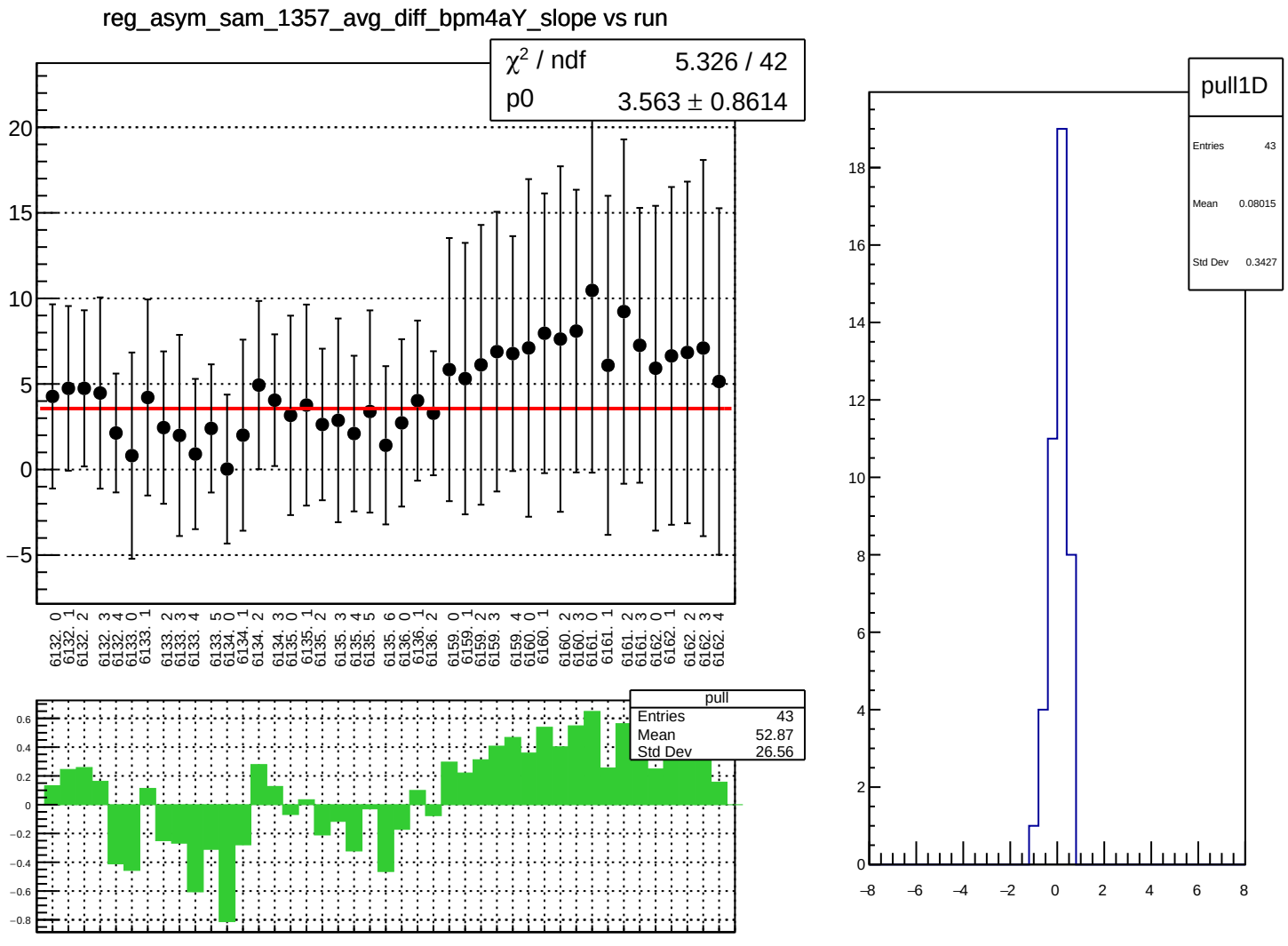

pull1D
Entries 43
Mean 0.01102
Std Dev 0.2225

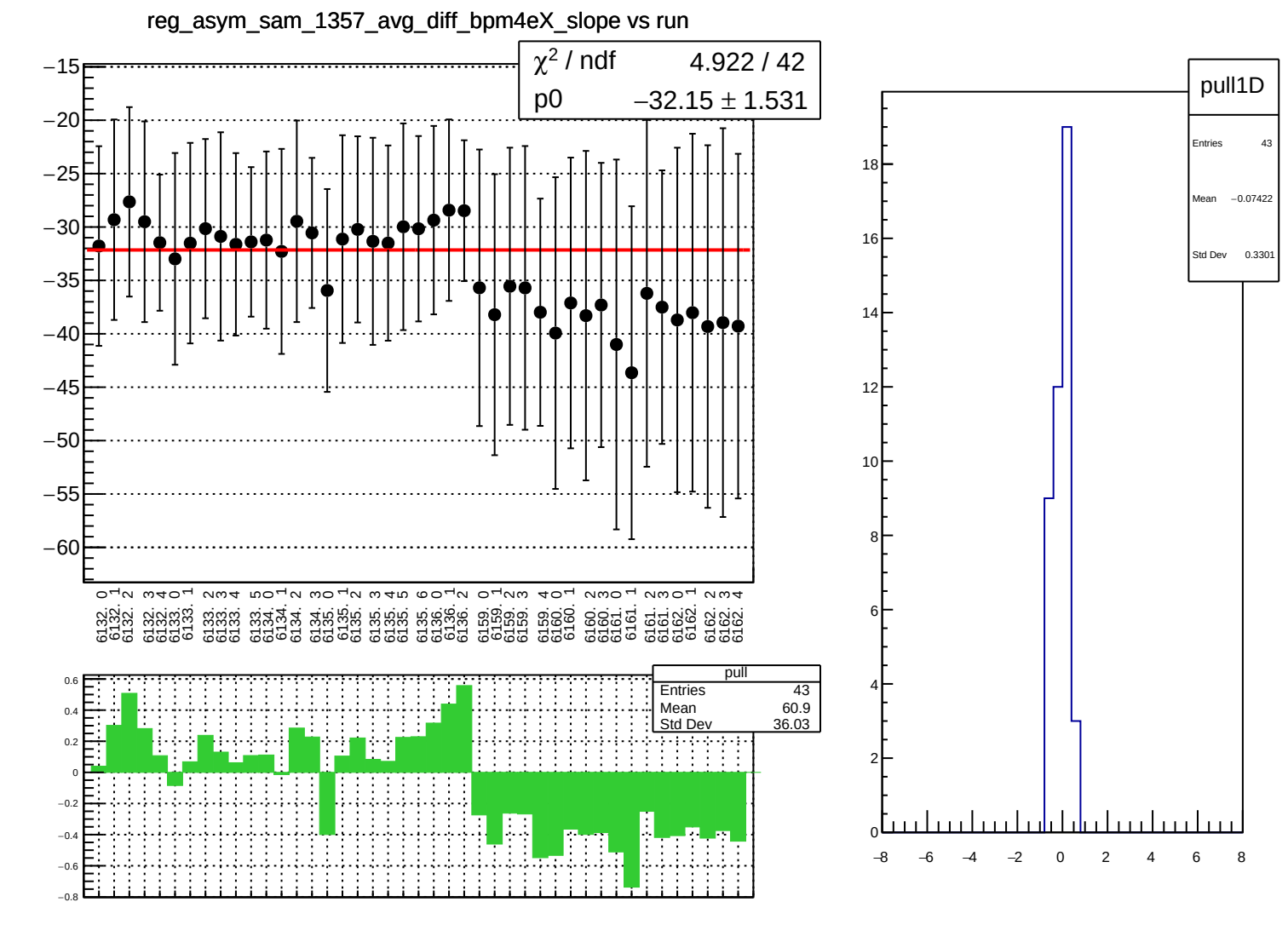

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.7 / 42
p0 −109.1± 1.137
−90
−95
−100
−105
−110
−115
−120
−125
−130
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 94.46
Std Dev 69.02
1
0.5
0
−0.5
−1

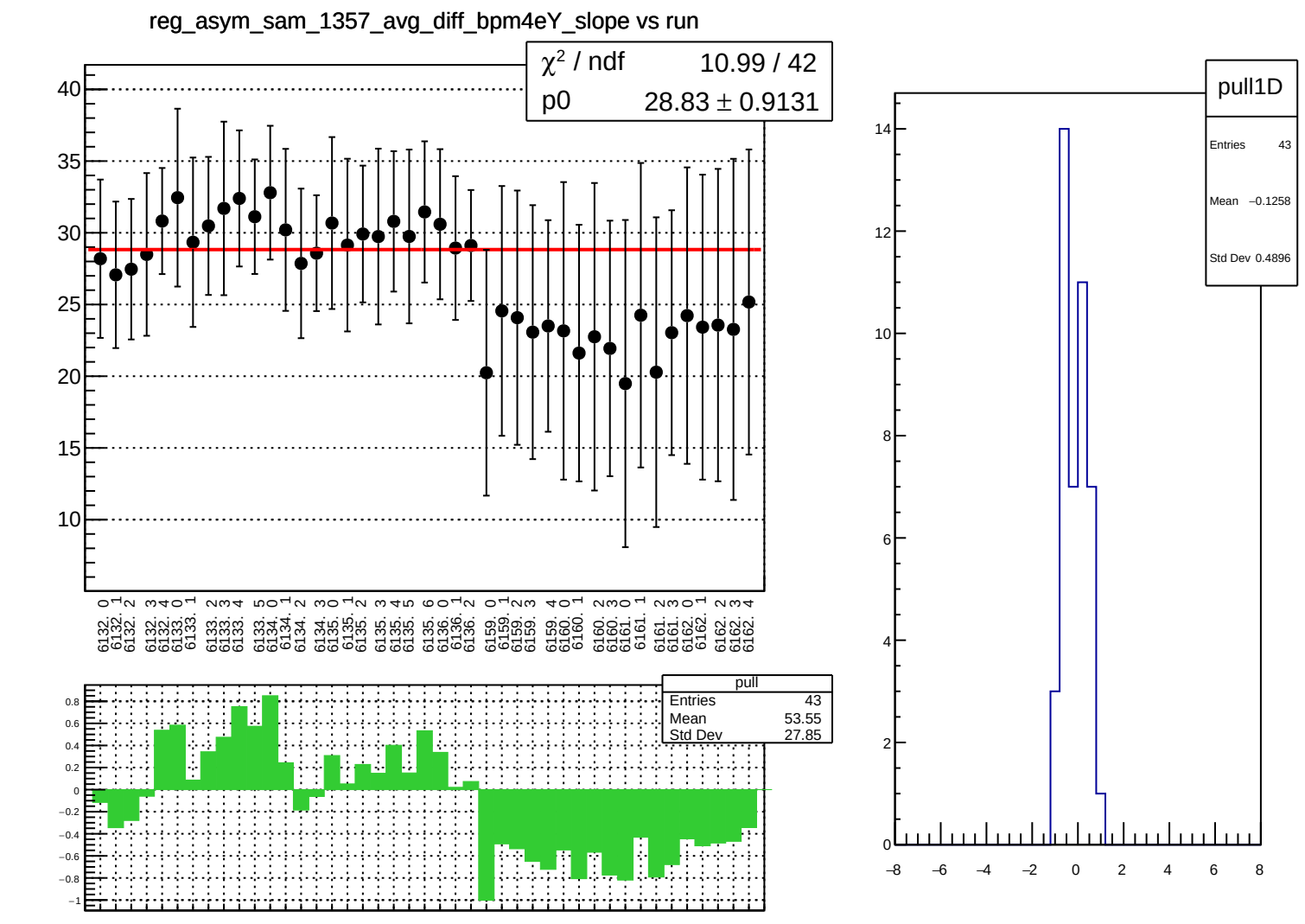

pull1D
Entries 43
Mean −0.05328
Std Dev 0.5409
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

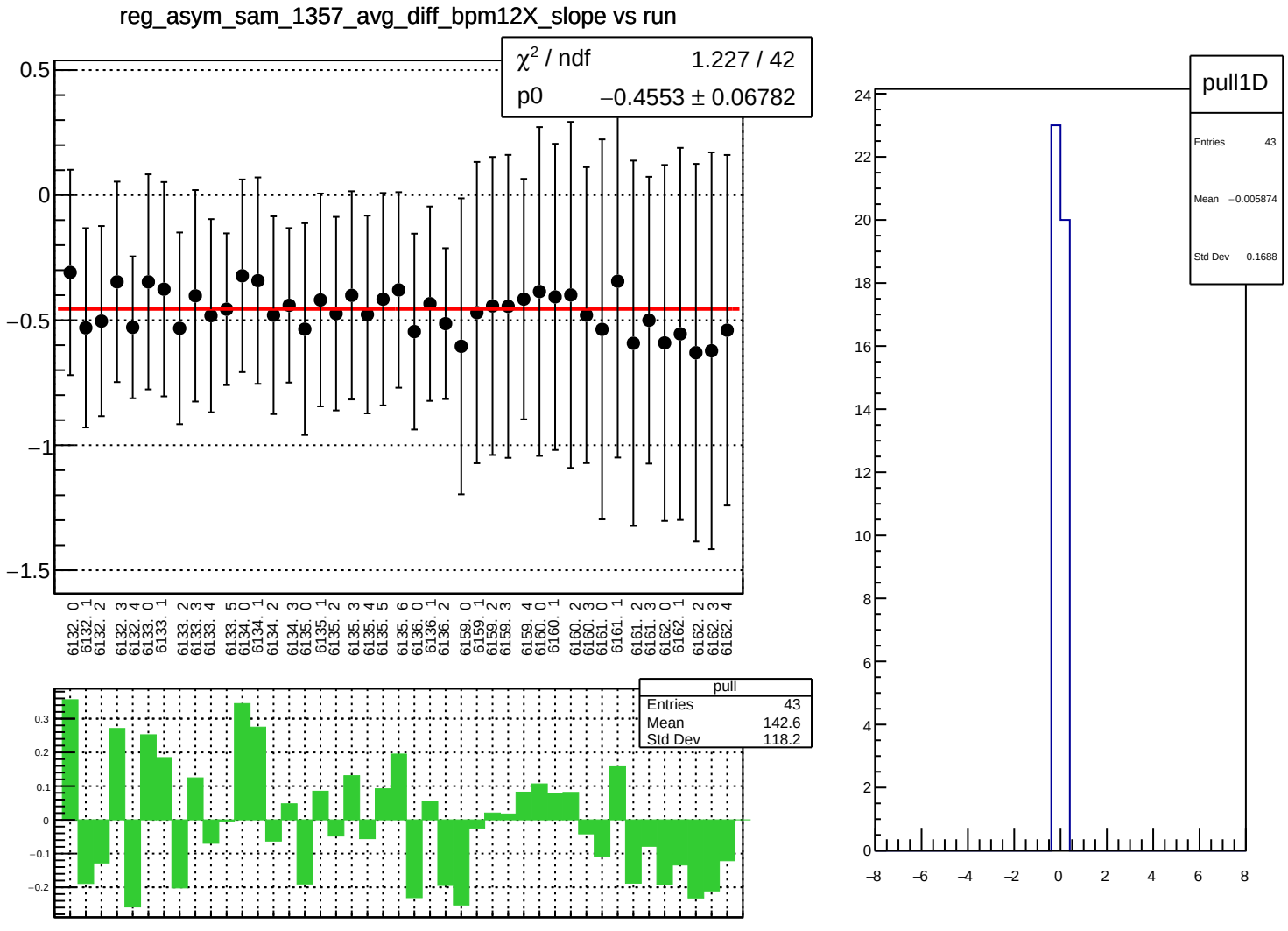

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 10.93 / 42
p0 0.3209 ± 0.08259
pull
Entries 43
Mean 130.2
Std Dev 105.4
pull1D
Entries 43
Mean −0.04234
Std Dev 0.5023

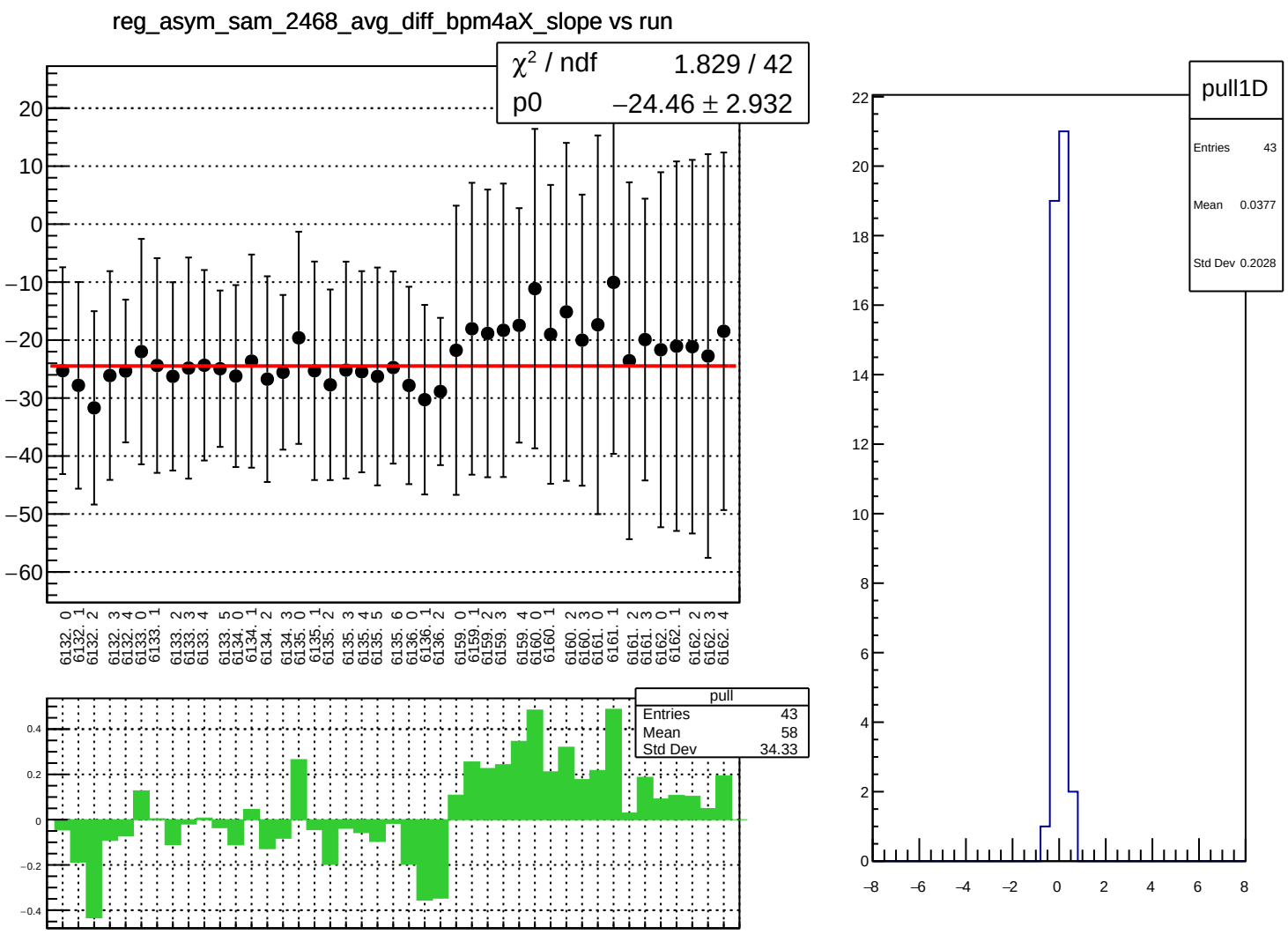

reg_asym_sam_1357_avg_diff_bpm4aX_slope vs run
χ² / ndf 4.202 / 42
p0 −9.473 ± 1.315
pull
Entries 43
Mean 62.47
Std Dev 37.99
pull1D
Entries 43
Mean 0.06728
Std Dev 0.3053

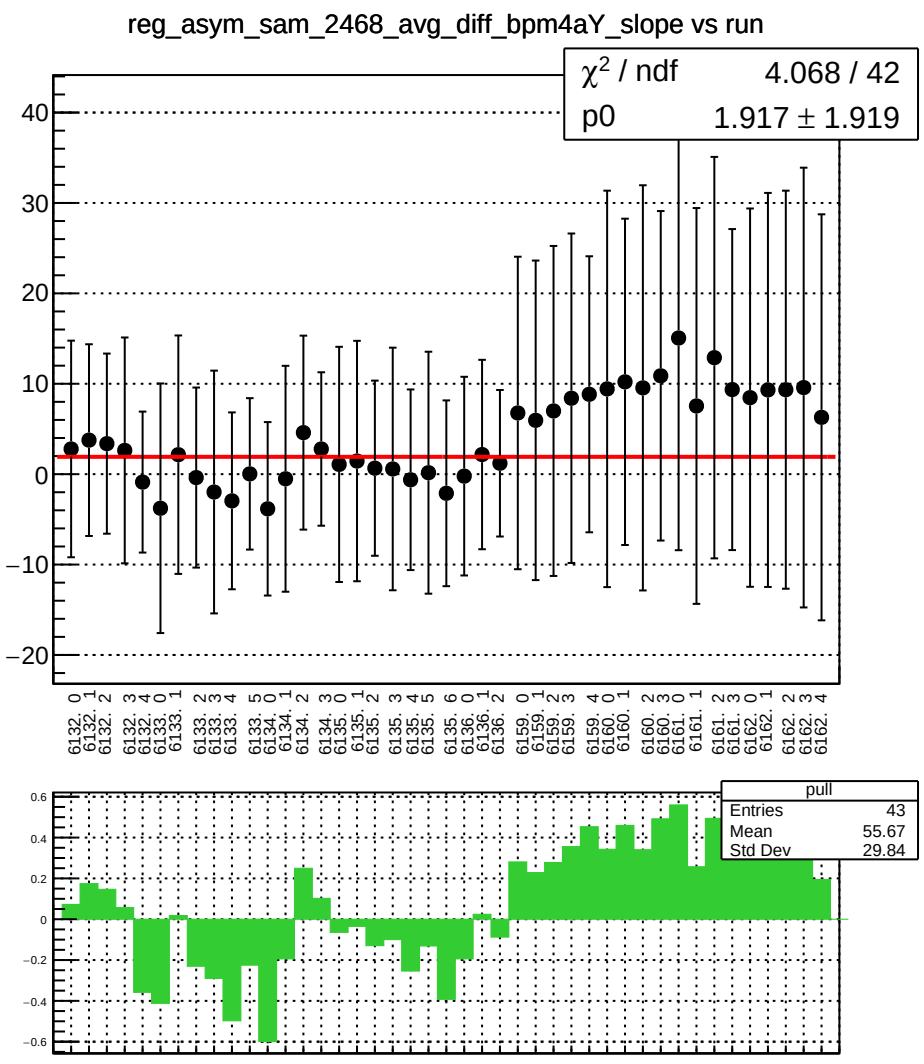

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.326 / 42
p0 3.563 ± 0.8614
pull
Entries 43
Mean 52.87
Std Dev 26.56
pull1D
Entries 43
Mean 0.08015
Std Dev 0.3427

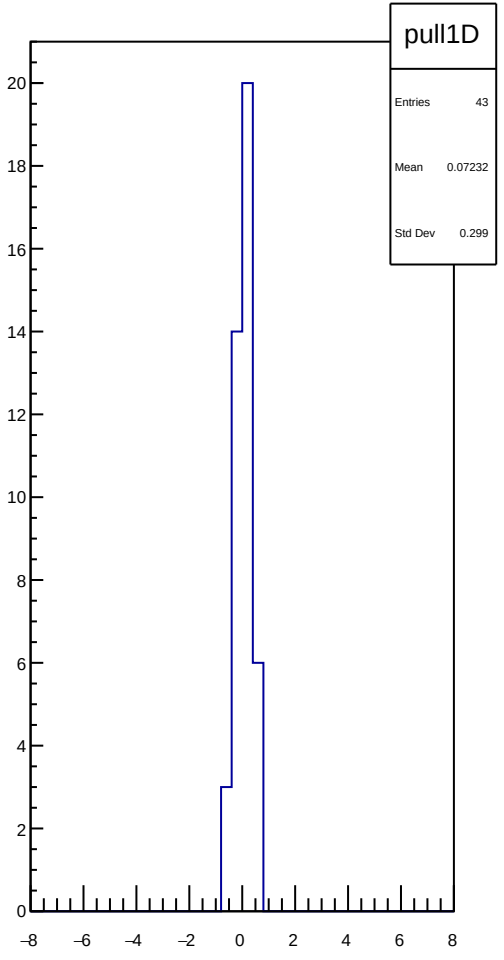

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.922 / 42
p0 −32.15 ± 1.531
pull
Entries 43
Mean 60.9
Std Dev 36.03
pull1D
Entries 43
Mean −0.07422
Std Dev 0.3301

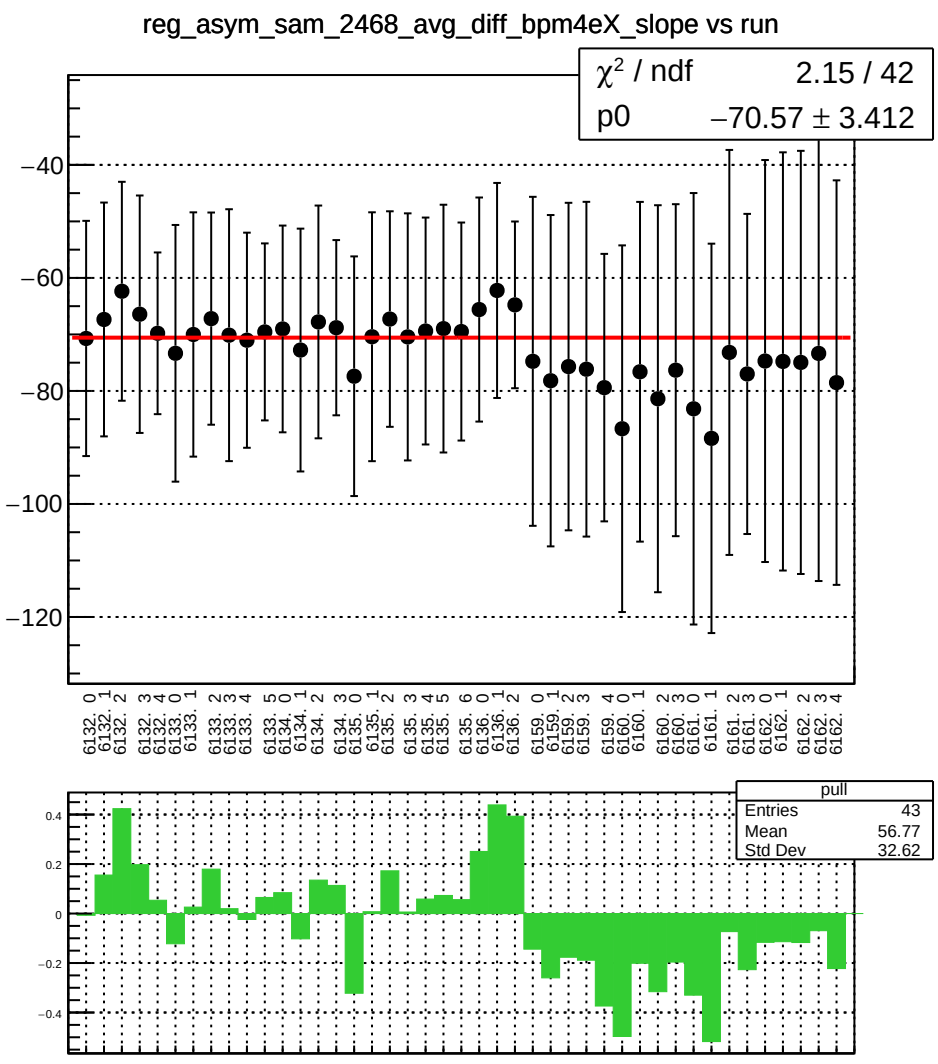

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.99 / 42
p0 28.83 ± 0.9131
40
35
30
25
20
15
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 53.55
Std Dev 27.85
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 43
Mean −0.1258
Std Dev 0.4896
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

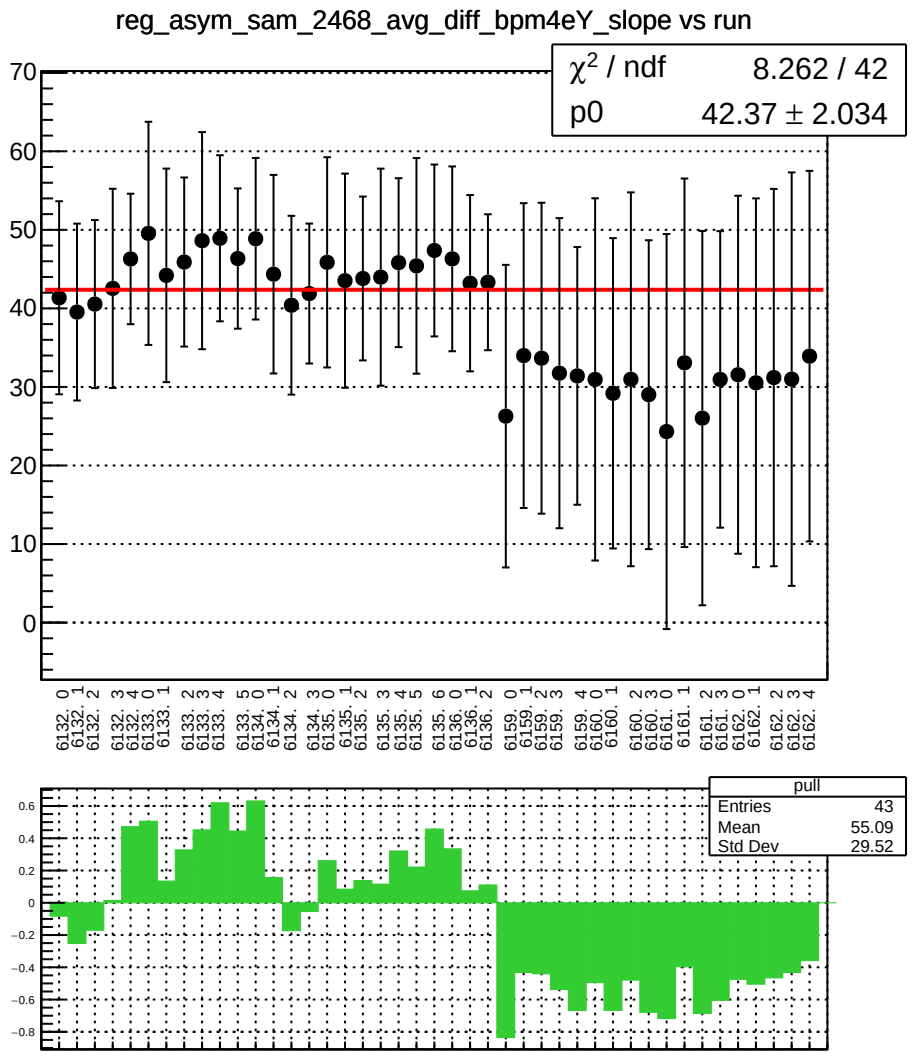

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 1.227 / 42
p0 −0.4553 ± 0.06782
0.5
0
−0.5
−1
−1.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 142.6
Std Dev 118.2
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 43
Mean −0.005874
Std Dev 0.1688
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

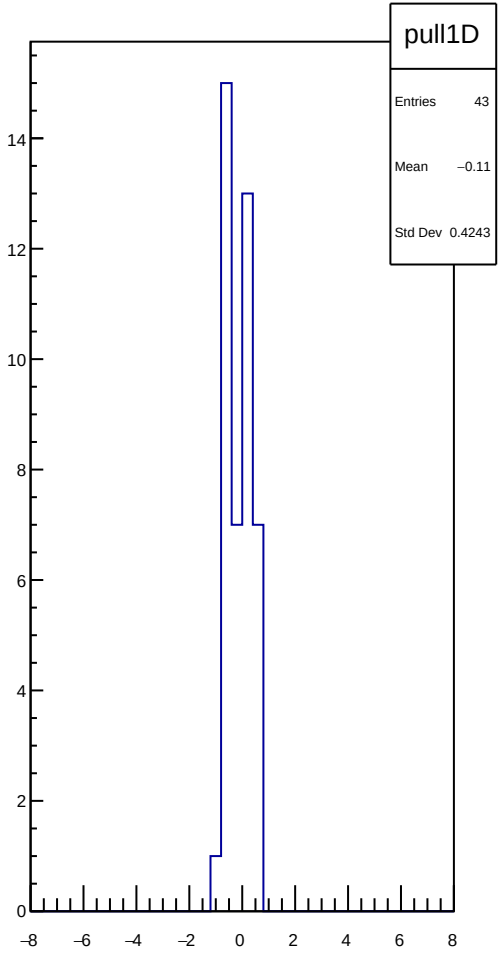

reg_asym_sam_2468_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.829 / 42
p0 −24.46 ± 2.932
pull
Entries 43
Mean 58
Std Dev 34.33
pull1D
Entries 43
Mean 0.0377
Std Dev 0.2028

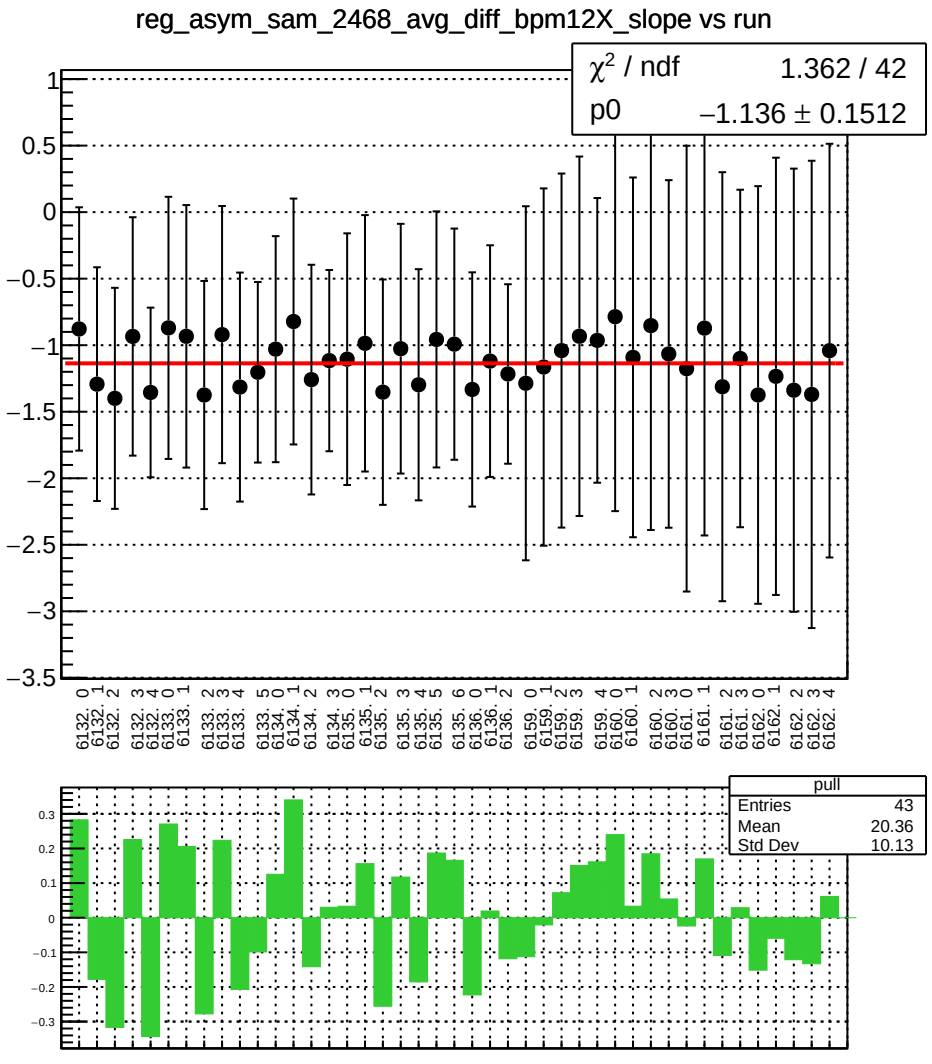

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.068 / 42
p0 1.917 ± 1.919
pull
Entries 43
Mean 55.67
Std Dev 29.84

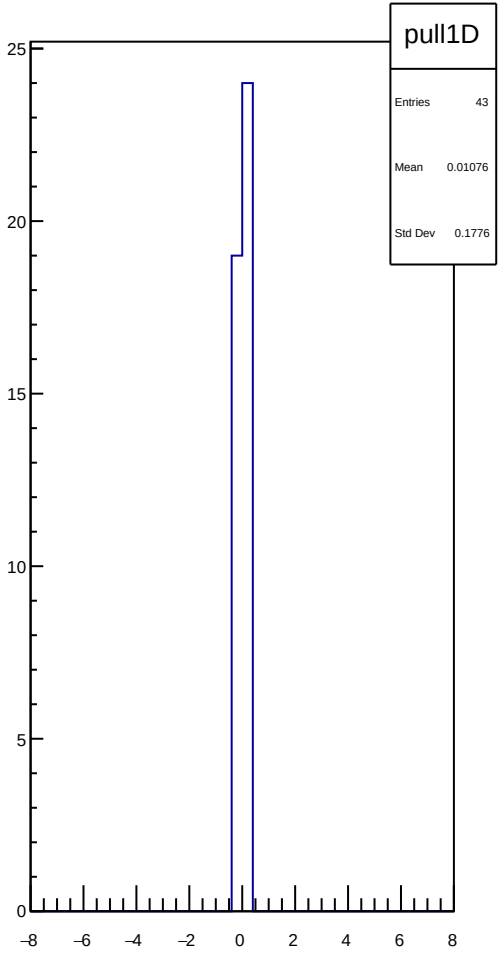

pull1D
Entries 43
Mean 0.07232
Std Dev 0.299

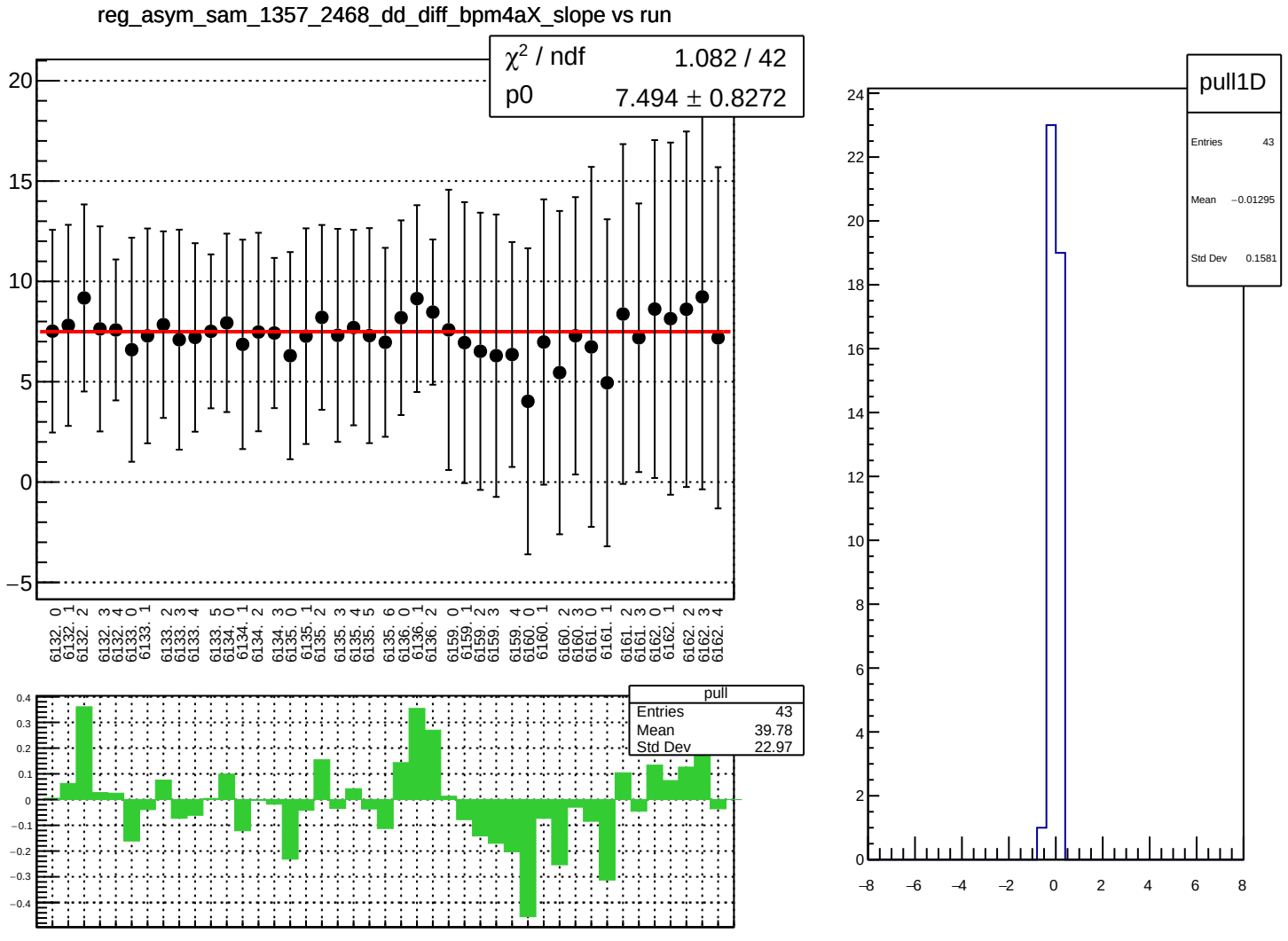

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.15 / 42
p0 −70.57 ± 3.412
−40
−60
−80
−100
−120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 56.77
Std Dev 32.62
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 43
Mean −0.042
Std Dev 0.2196
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

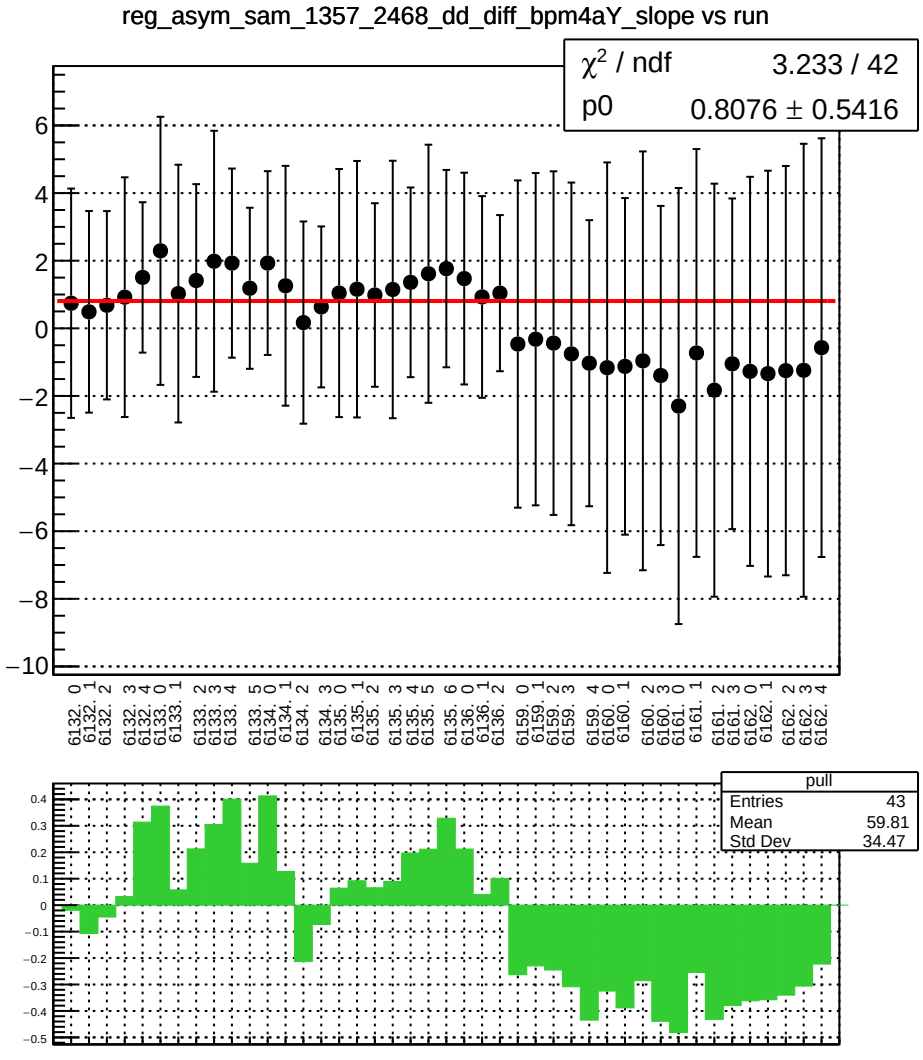

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.262 / 42
p0 42.37 ± 2.034
pull
Entries 43
Mean 55.09
Std Dev 29.52

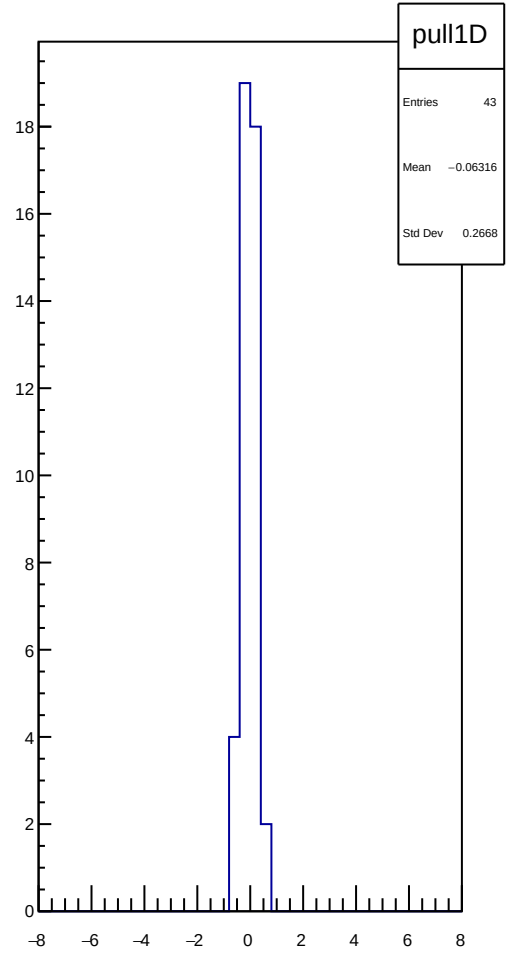

pull1D
Entries 43
Mean −0.11
Std Dev 0.4243

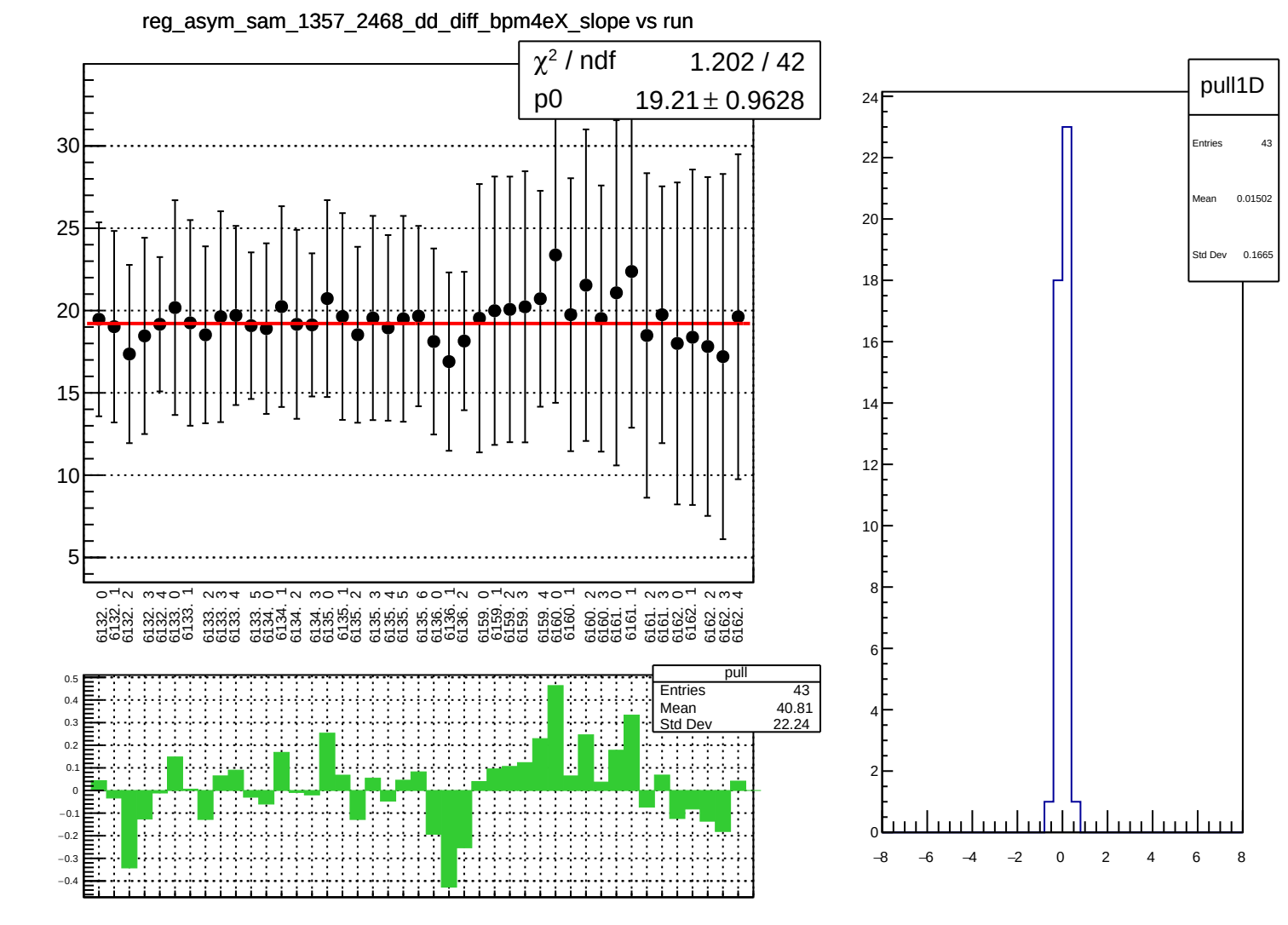

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 1.362 / 42
p0 −1.136 ± 0.1512
pull
Entries 43
Mean 20.36
Std Dev 10.13

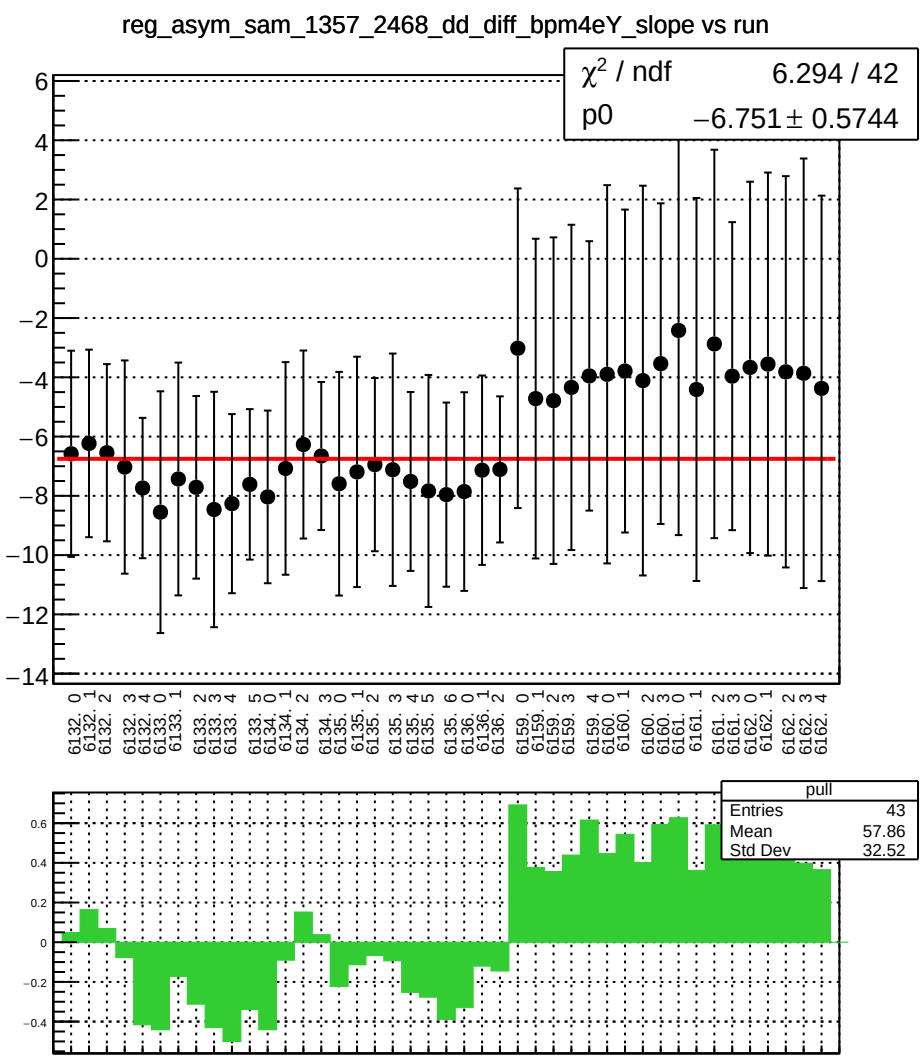

pull1D
Entries 43
Mean 0.01076
Std Dev 0.1776

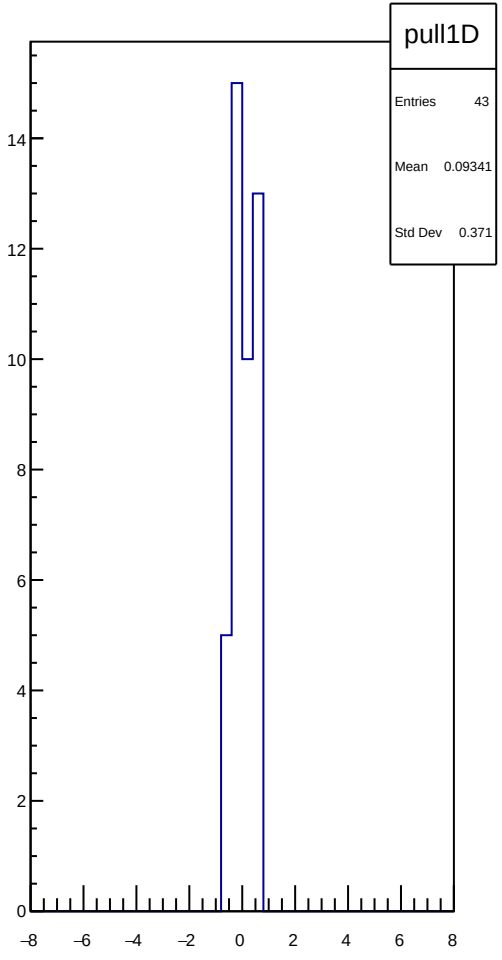

reg_asym_sam_1357_2468_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.082 / 42
p0 7.494 ± 0.8272
pull
Entries 43
Mean 39.78
Std Dev 22.97
pull1D
Entries 43
Mean −0.01295
Std Dev 0.1581

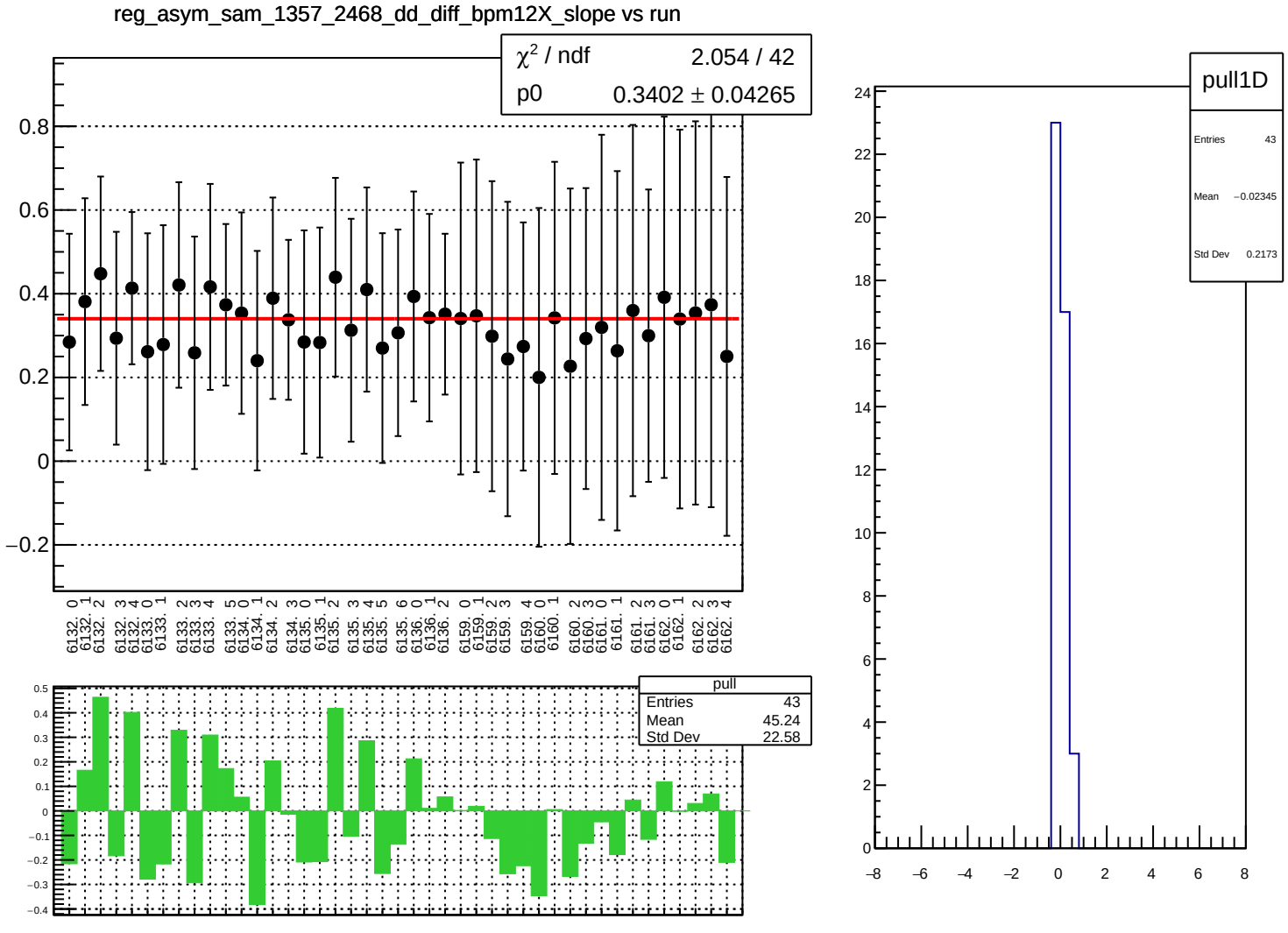

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.233 / 42
p0 0.8076 ± 0.5416
pull
Entries 43
Mean 59.81
Std Dev 34.47

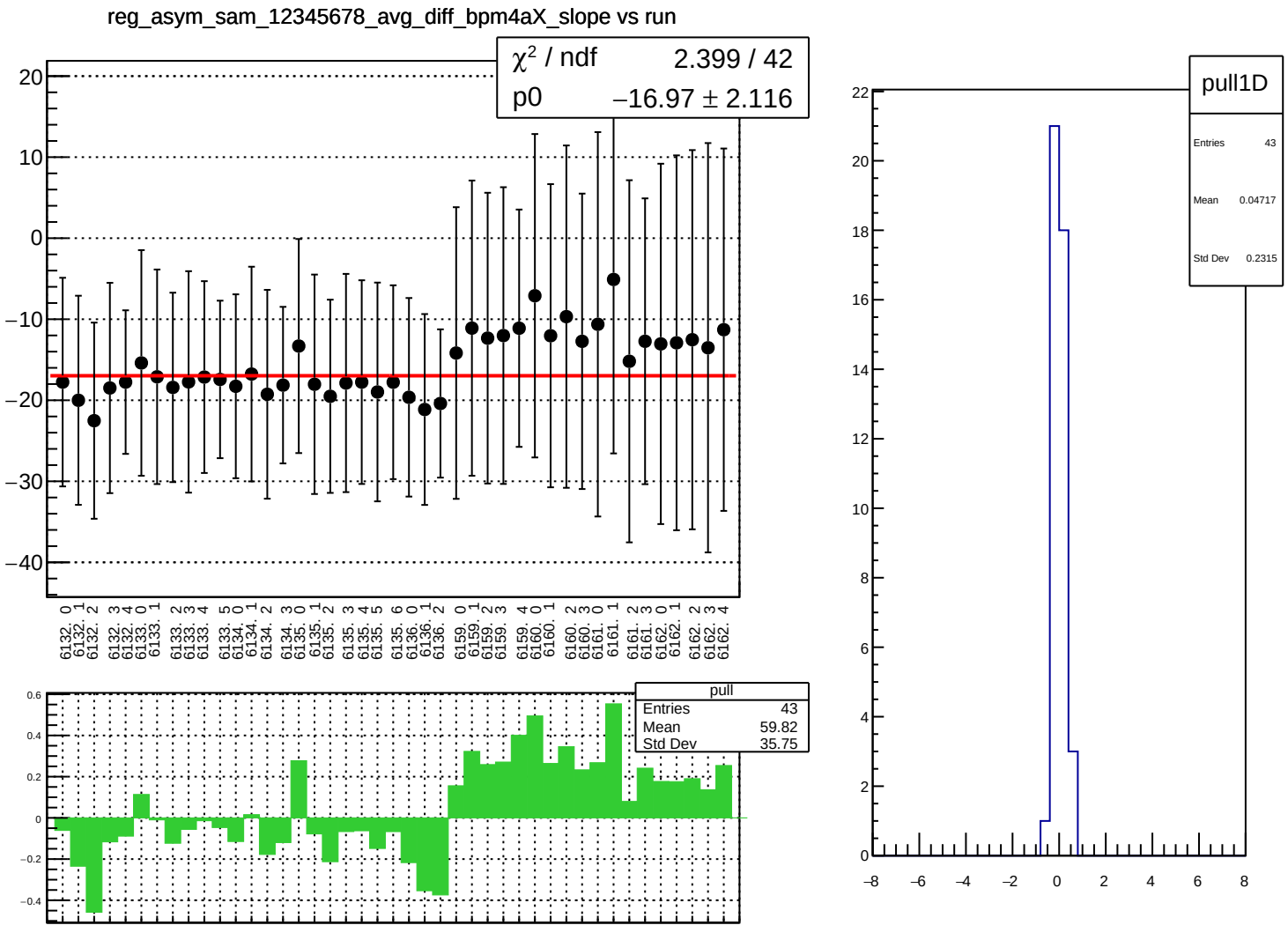

pull1D
Entries 43
Mean −0.06316
Std Dev 0.2668

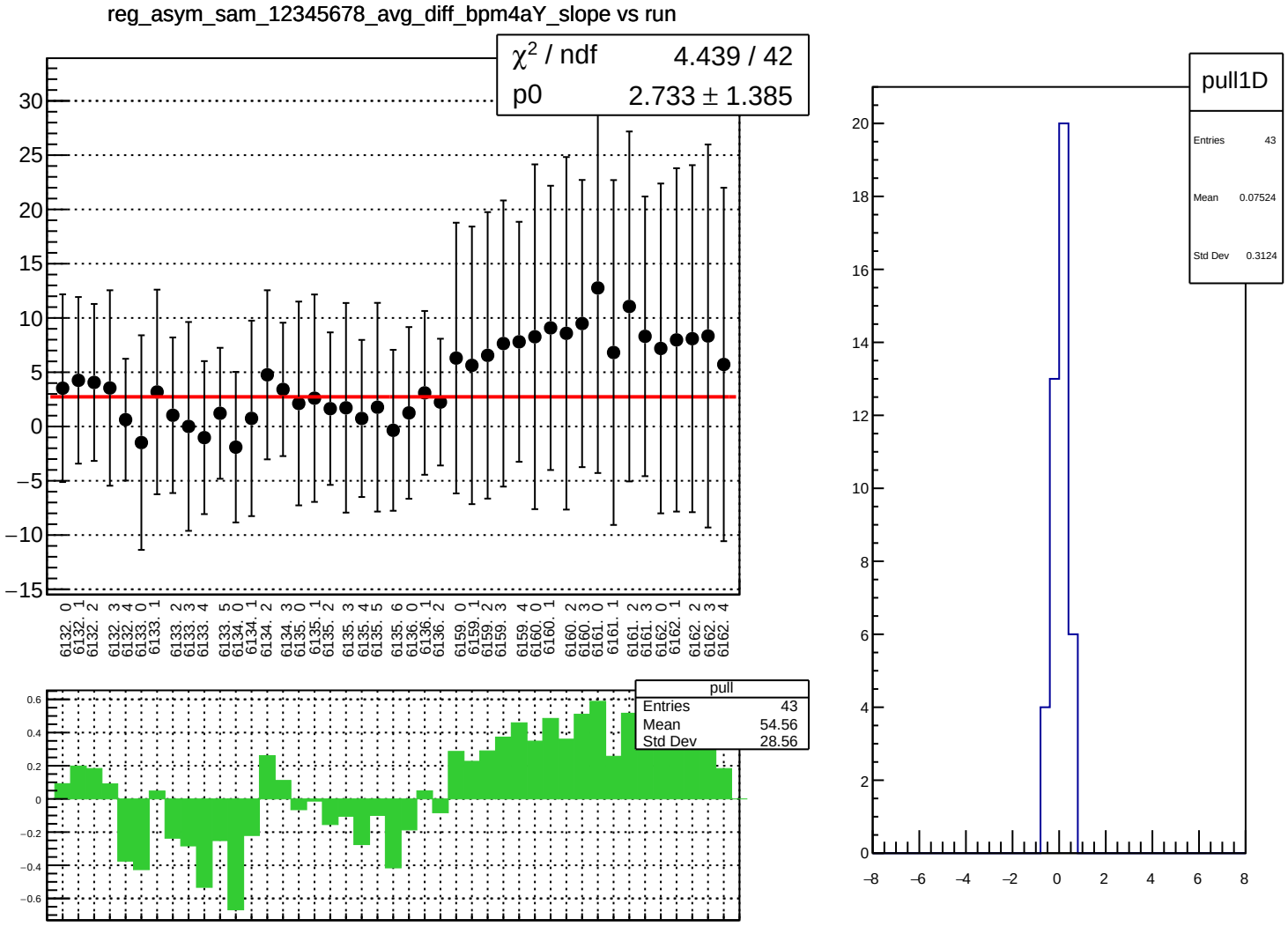

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.202 / 42
p0 19.21 ± 0.9628
pull
Entries 43
Mean 40.81
Std Dev 22.24
pull1D
Entries 43
Mean 0.01502
Std Dev 0.1665

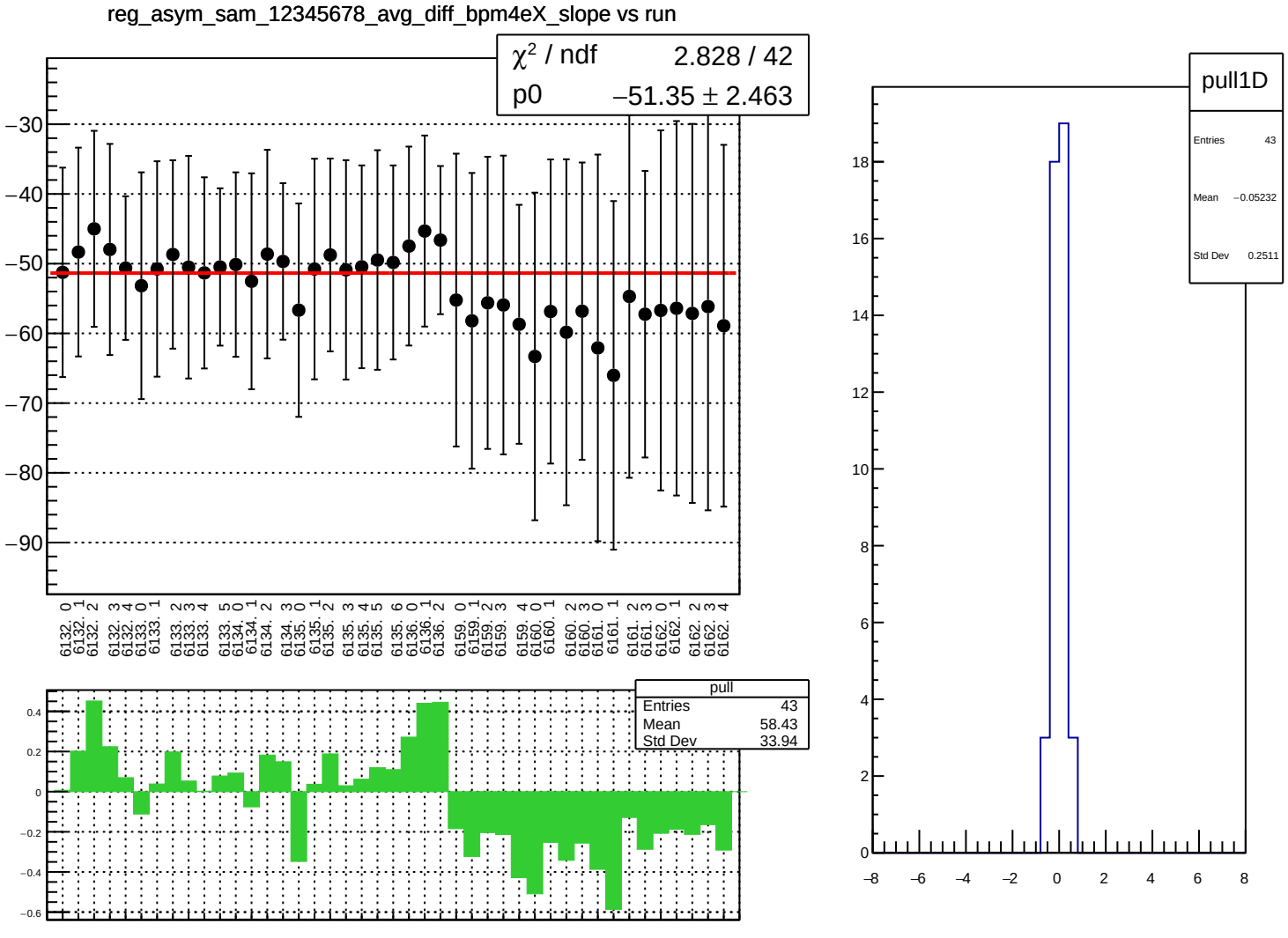

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.294 / 42
p0 −6.751 ± 0.5744
pull
Entries 43
Mean 57.86
Std Dev 32.52

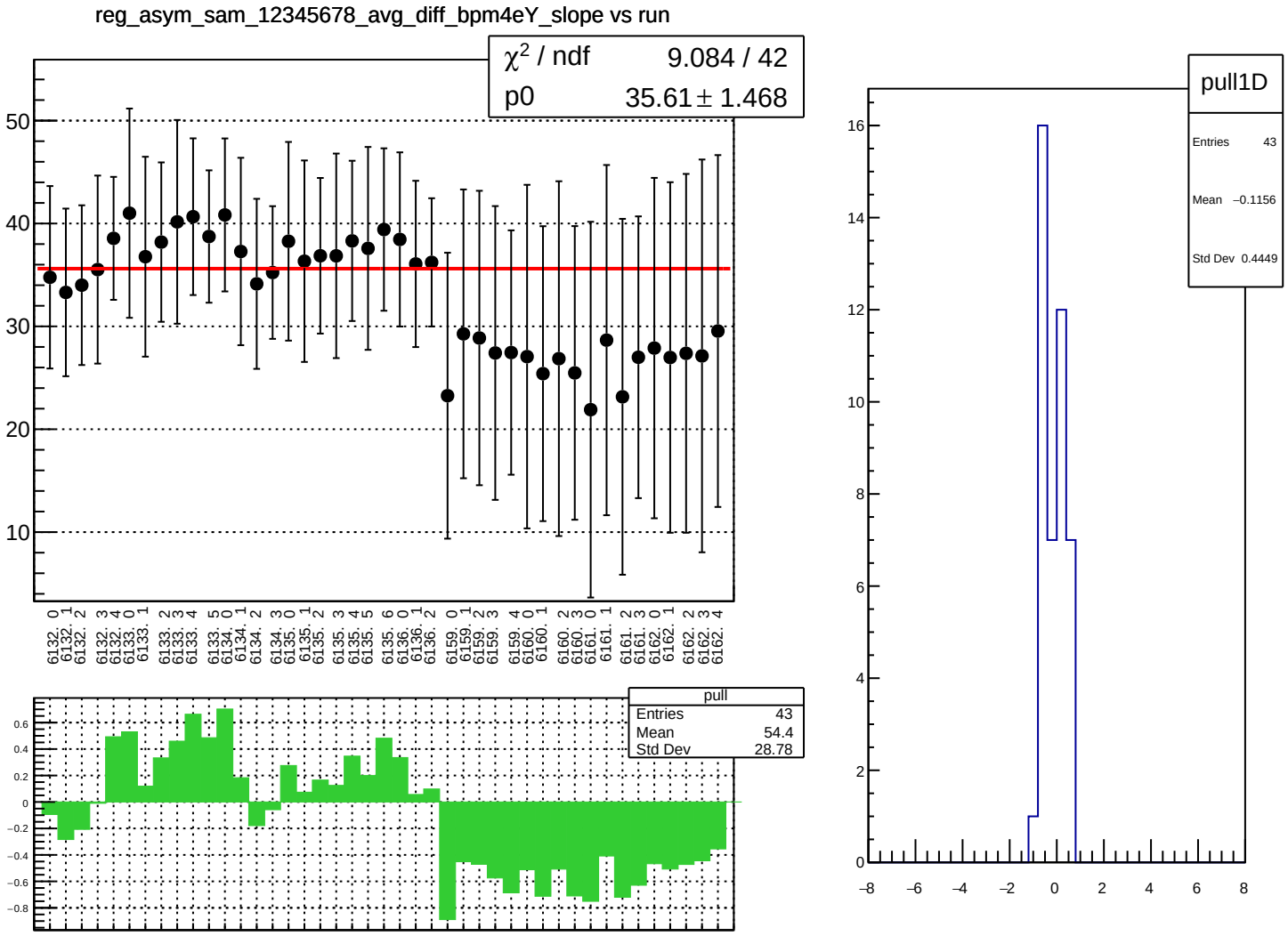

pull1D
Entries 43
Mean 0.09341
Std Dev 0.371

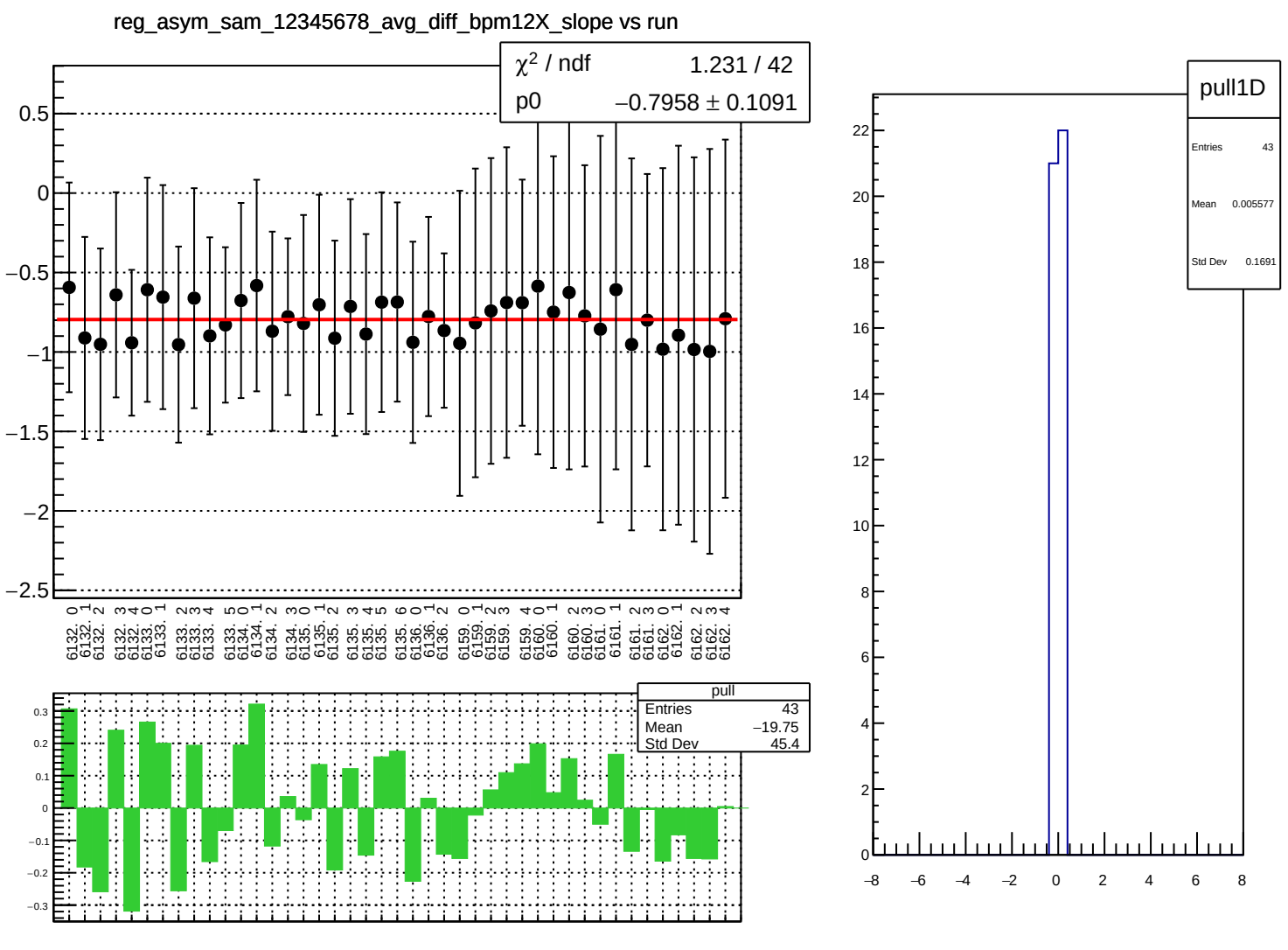

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 2.054 / 42
p0 0.3402 ± 0.04265
pull
Entries 43
Mean 45.24
Std Dev 22.58
pull1D
Entries 43
Mean −0.02345
Std Dev 0.2173

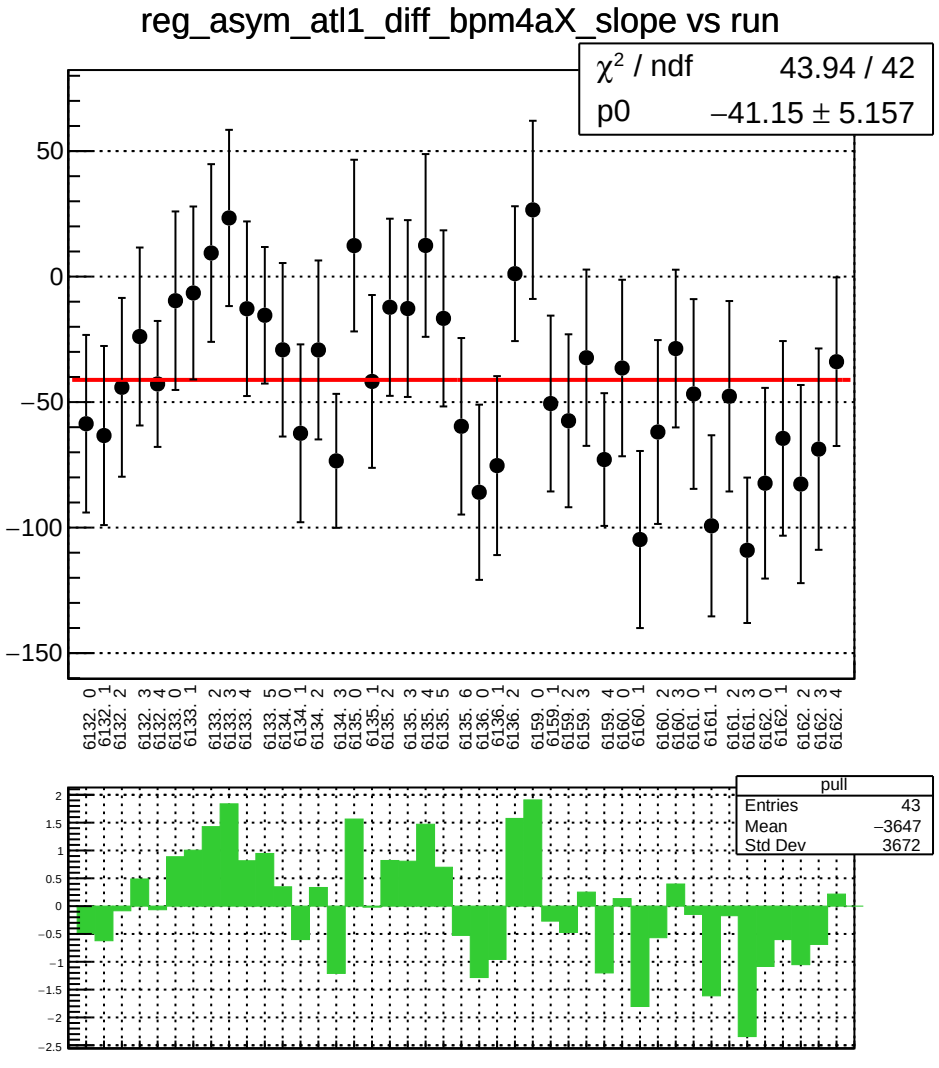

reg_asym_sam_12345678_avg_diff_bpm4aX_slope vs run
χ² / ndf 2.399 / 42
p0 −16.97 ± 2.116
pull
Entries 43
Mean 59.82
Std Dev 35.75
pull1D
Entries 43
Mean 0.04717
Std Dev 0.2315

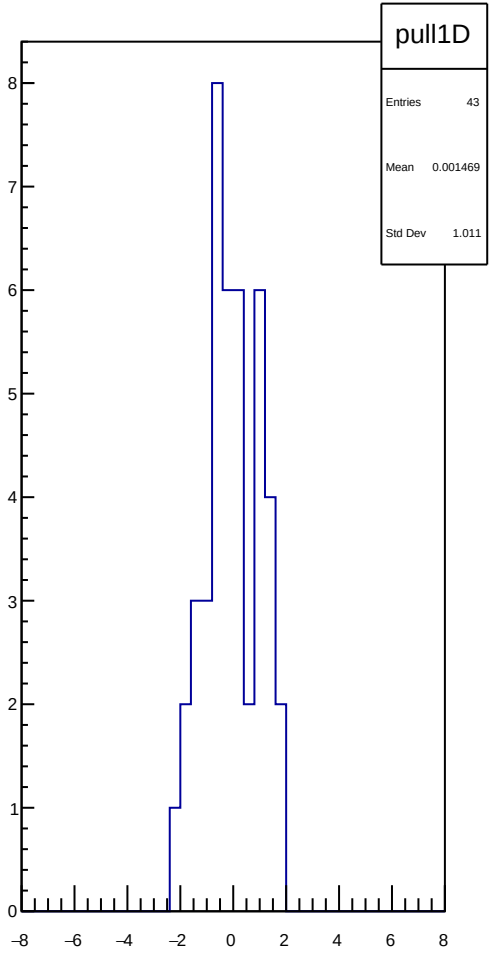

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.439 / 42
p0 2.733 ± 1.385
pull
Entries 43
Mean 54.56
Std Dev 28.56
pull1D
Entries 43
Mean 0.07524
Std Dev 0.3124

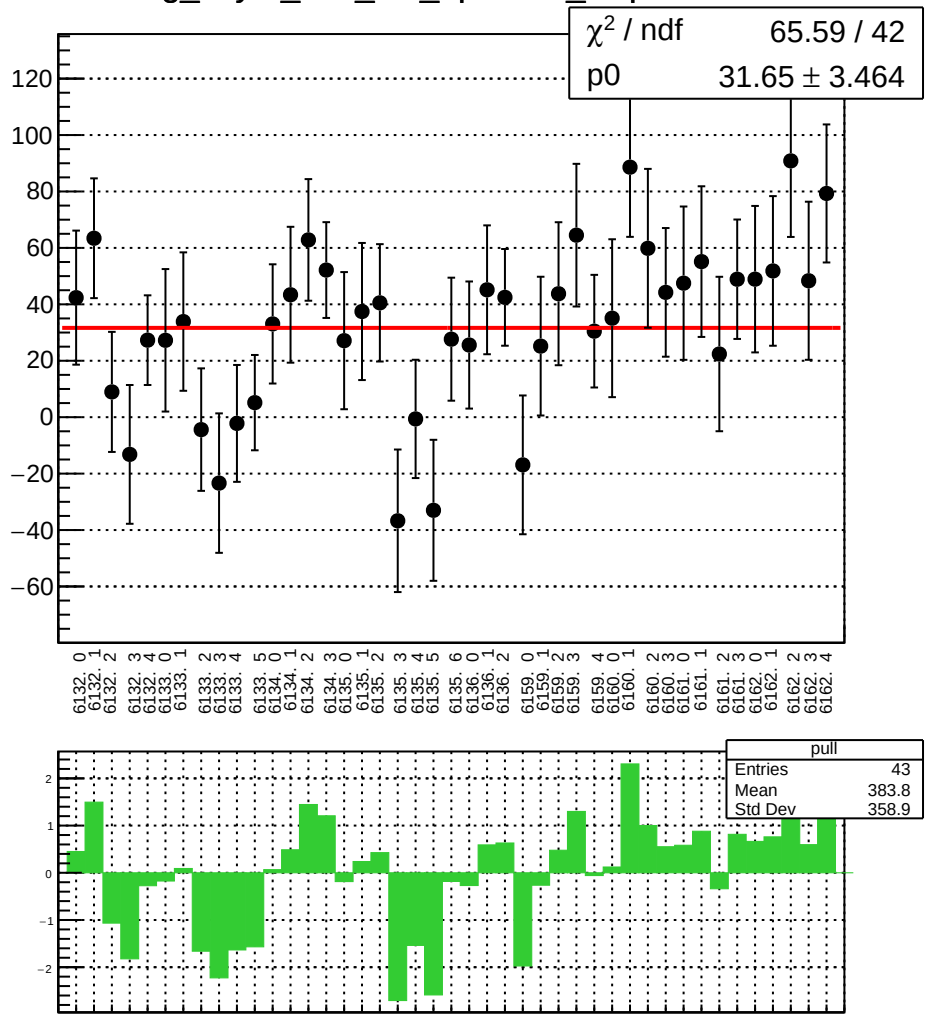

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.828 / 42
p0 −51.35 ± 2.463
pull
Entries 43
Mean 58.43
Std Dev 33.94
pull1D
Entries 43
Mean −0.05232
Std Dev 0.2511

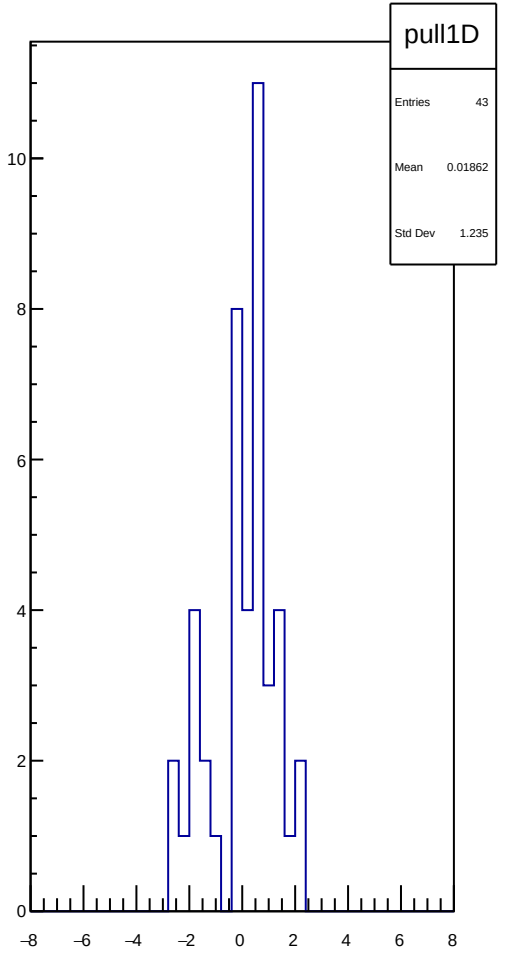

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.084 / 42
p0 35.61 ± 1.468
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 54.4
Std Dev 28.78
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean −0.1156
Std Dev 0.4449
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

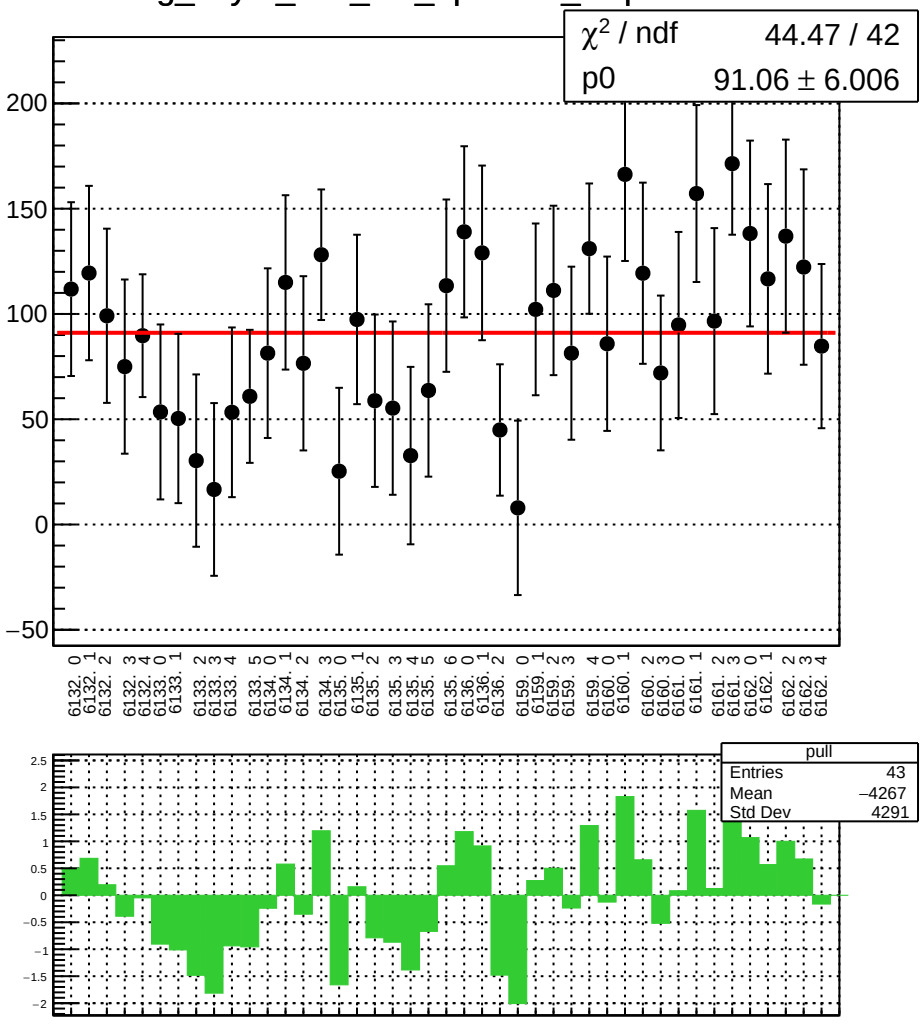

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 1.231 / 42
p0 −0.7958 ± 0.1091
0.5
0
−0.5
−1
−1.5
−2
−2.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −19.75
Std Dev 45.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 43
Mean 0.005577
Std Dev 0.1691
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

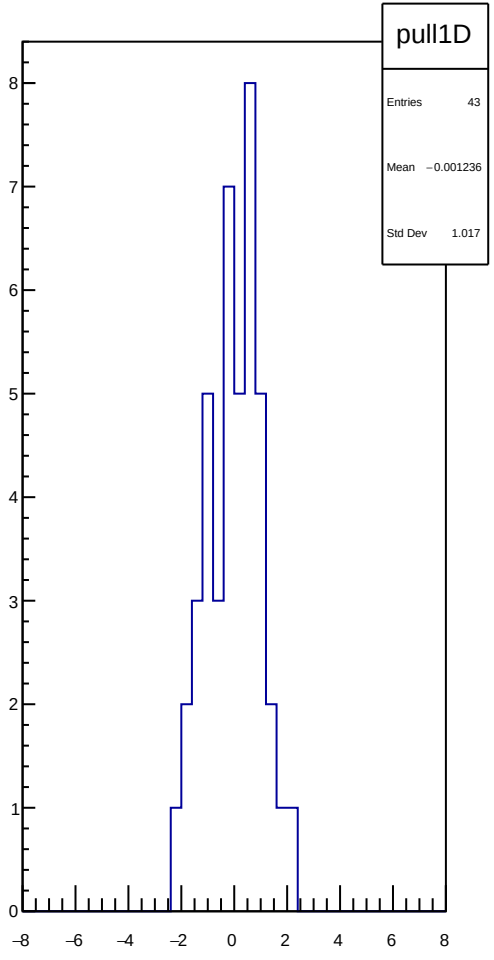

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 43.94 / 42
p0 −41.15 ± 5.157
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −3647
Std Dev 3672
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

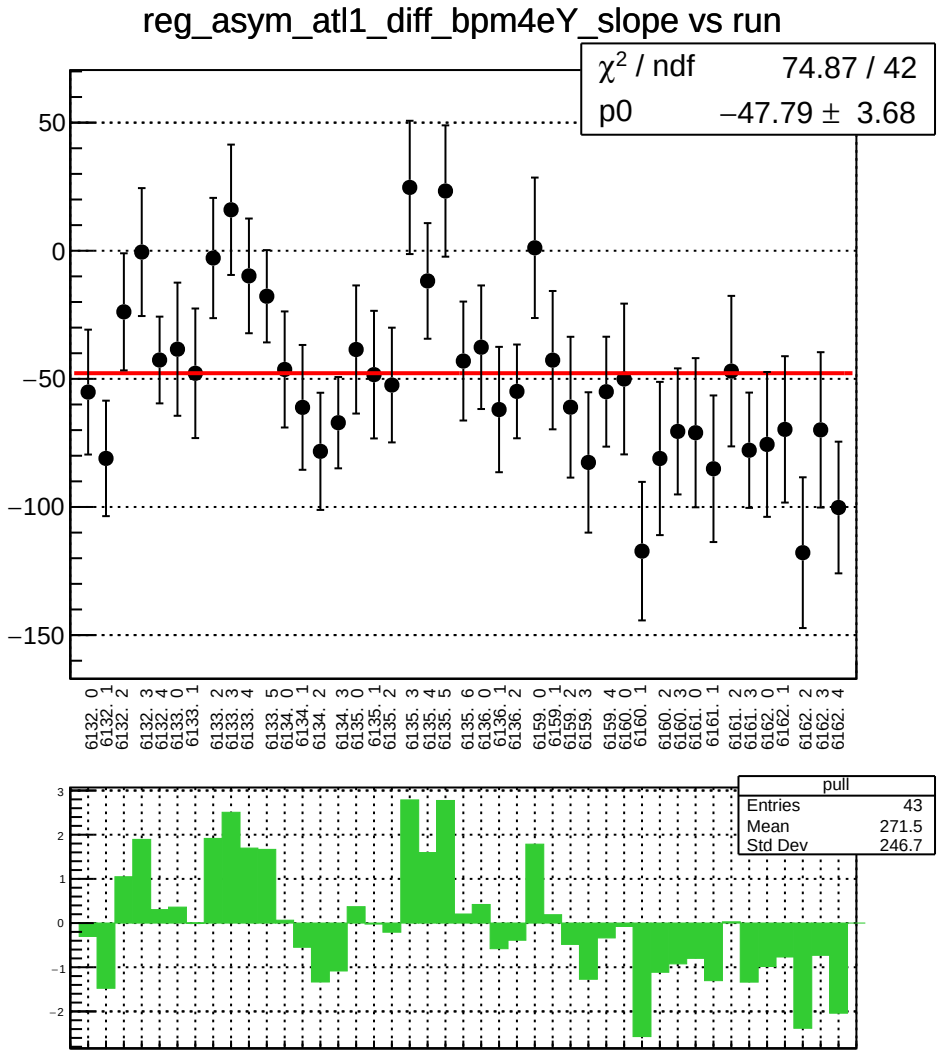

pull1D
Entries 43
Mean 0.001469
Std Dev 1.011
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

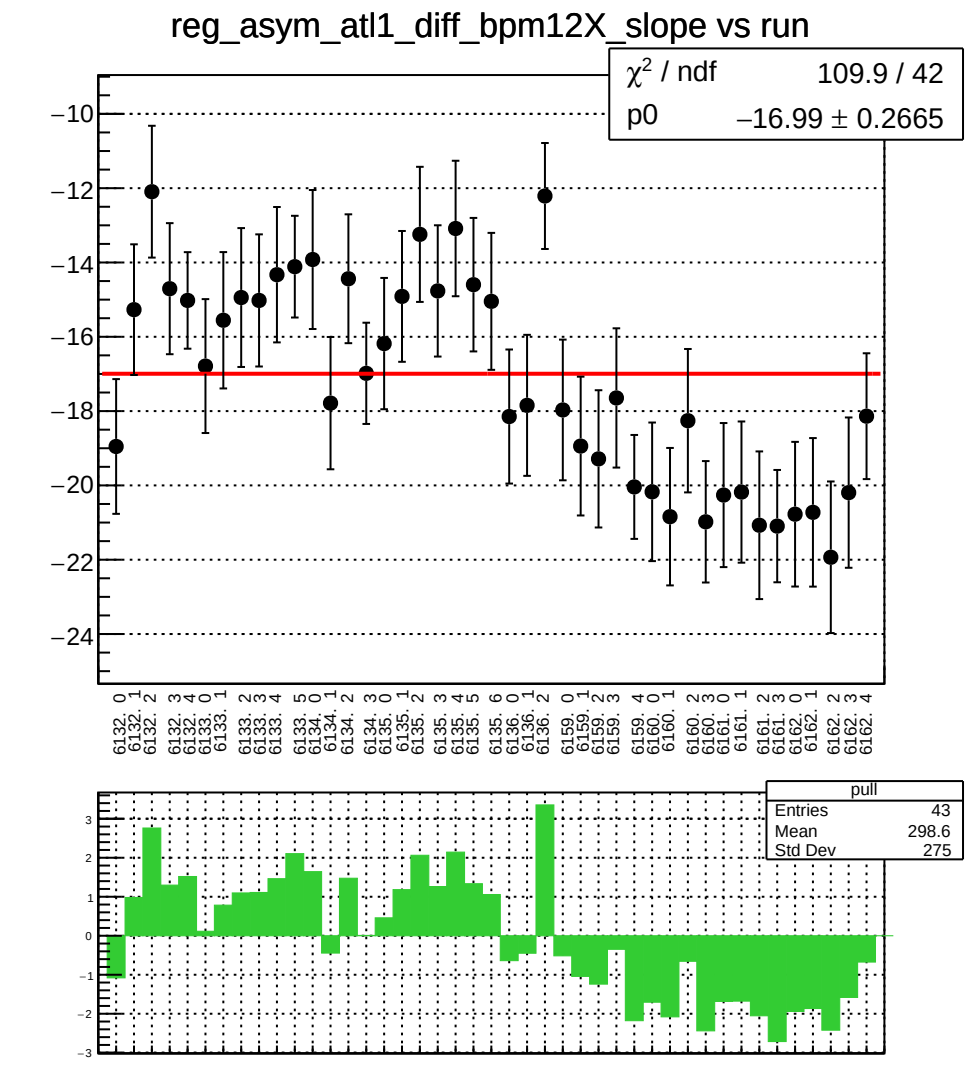

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 65.59 / 42
p0 31.65 ± 3.464
pull
Entries 43
Mean 383.8
Std Dev 358.9

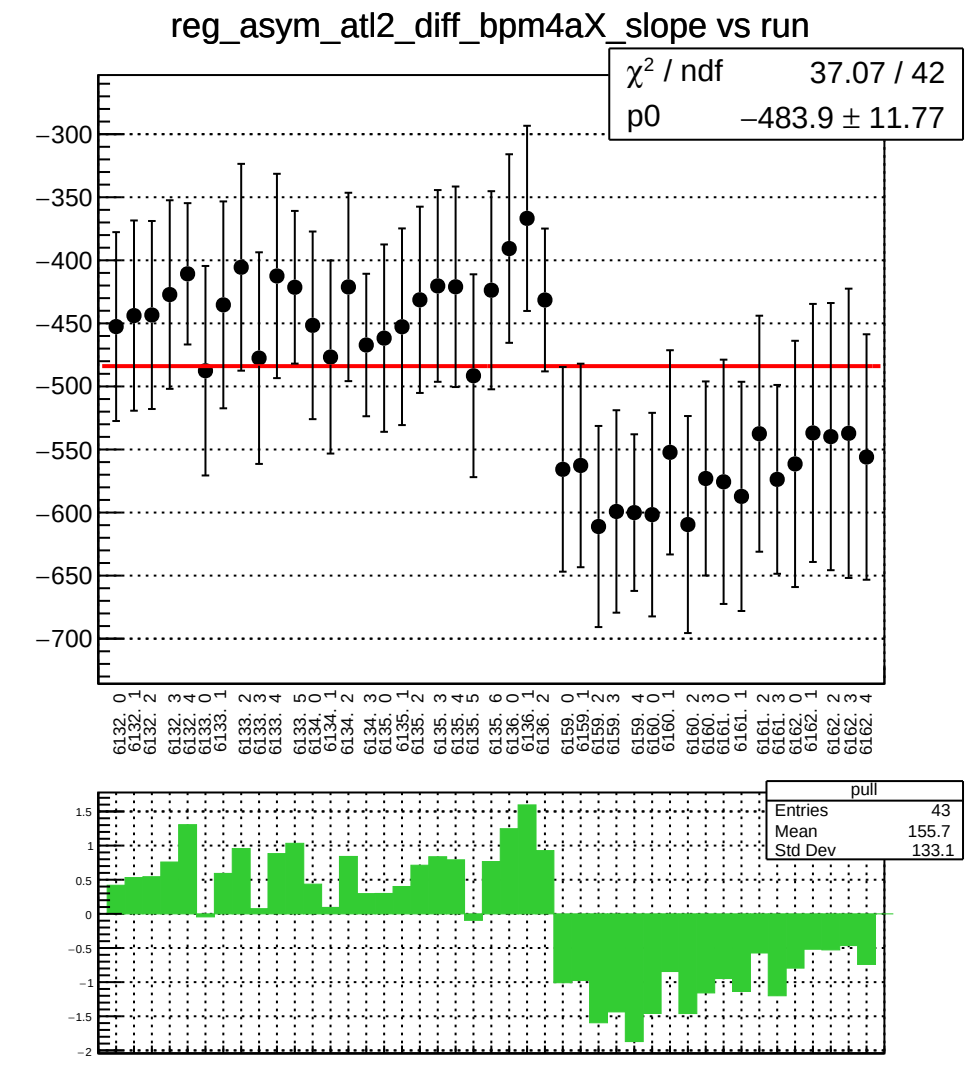

pull1D
Entries 43
Mean 0.01862
Std Dev 1.235

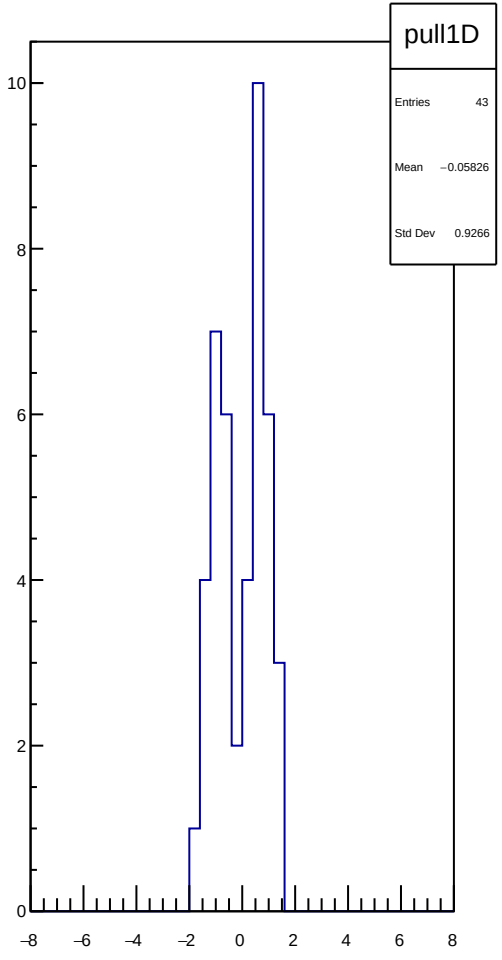

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 44.47 / 42
p0 91.06 ± 6.006
pull
Entries 43
Mean −4267
Std Dev 4291

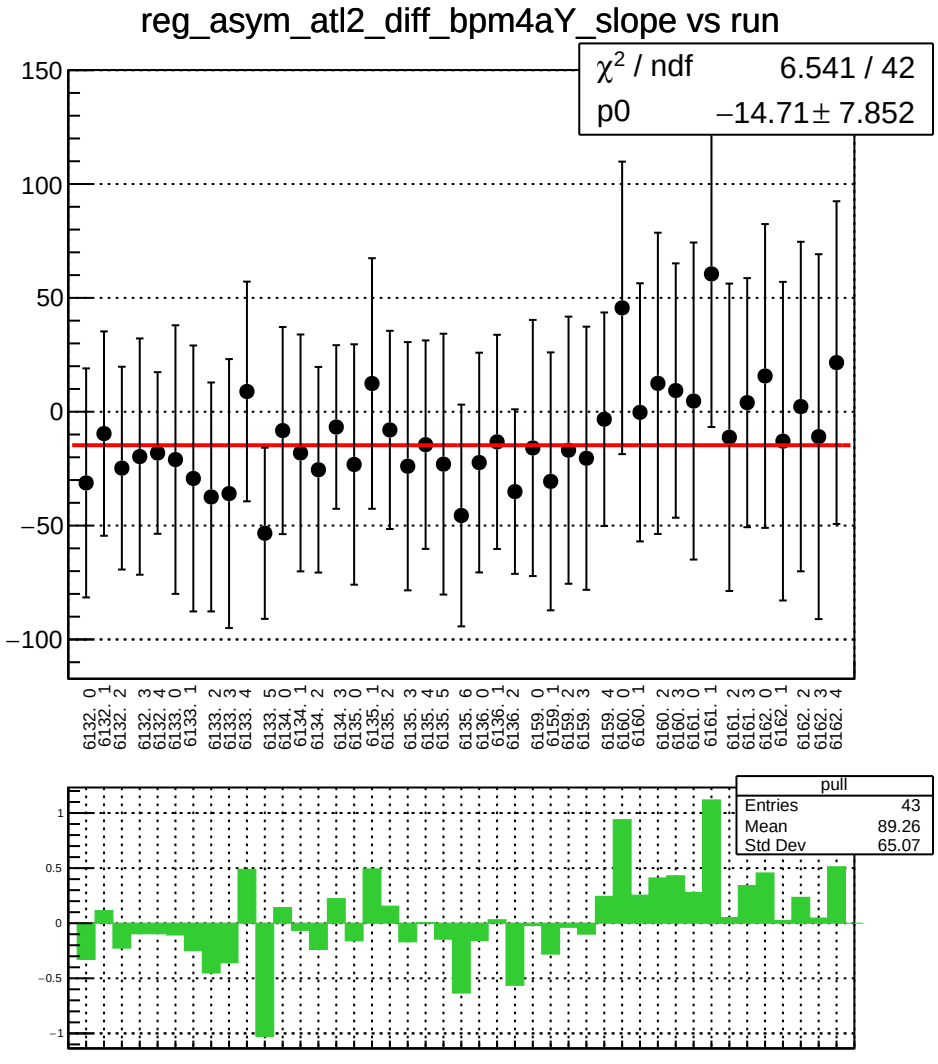

pull1D
Entries 43
Mean −0.001236
Std Dev 1.017

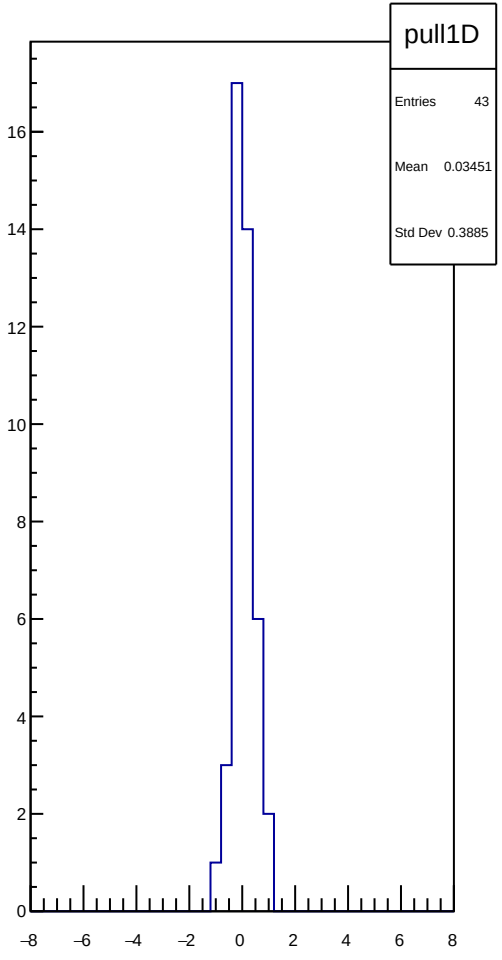

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 74.87 / 42
p0 −47.79 ± 3.68
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 271.5
Std Dev 246.7
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03359
Std Dev 1.319
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

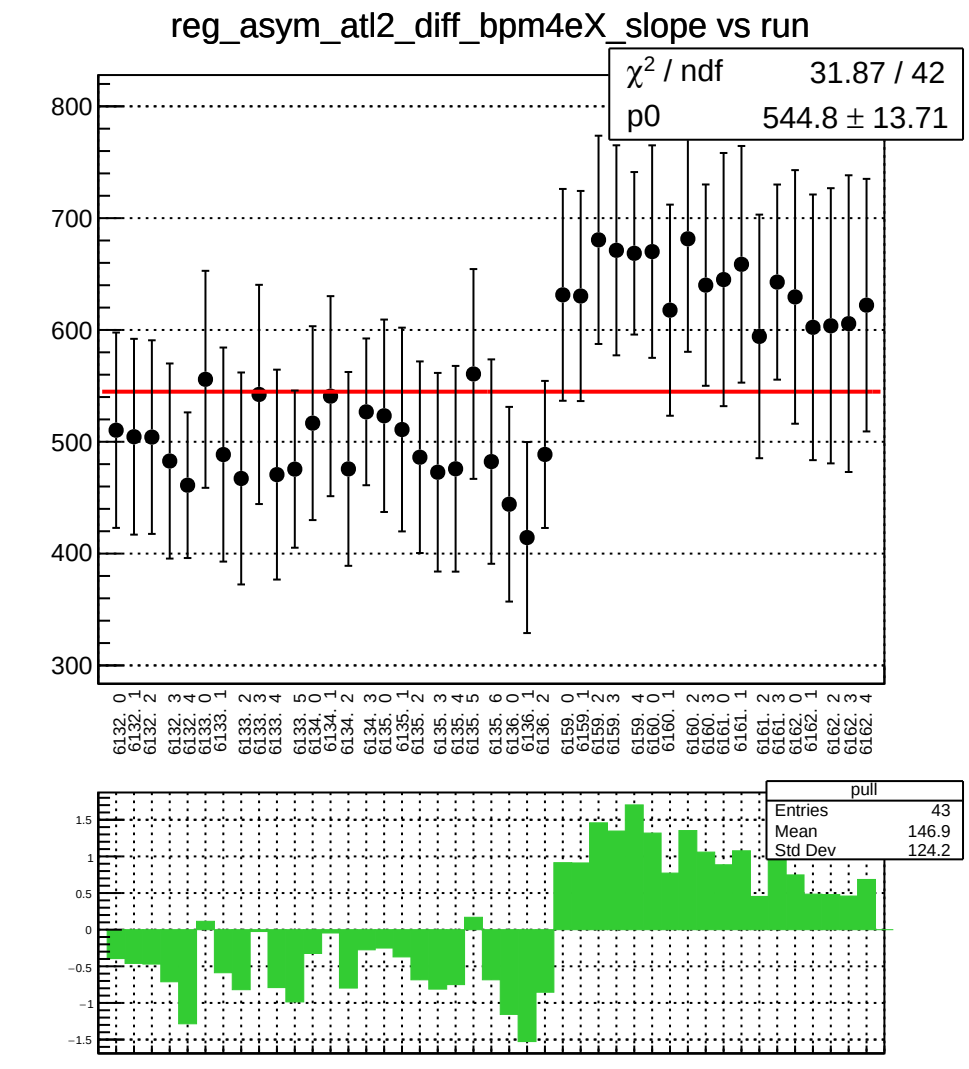

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 109.9 / 42
p0 −16.99 ± 0.2665
−10
−12
−14
−16
−18
−20
−22
−24
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 298.6
Std Dev 275
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.05118
Std Dev 1.598
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

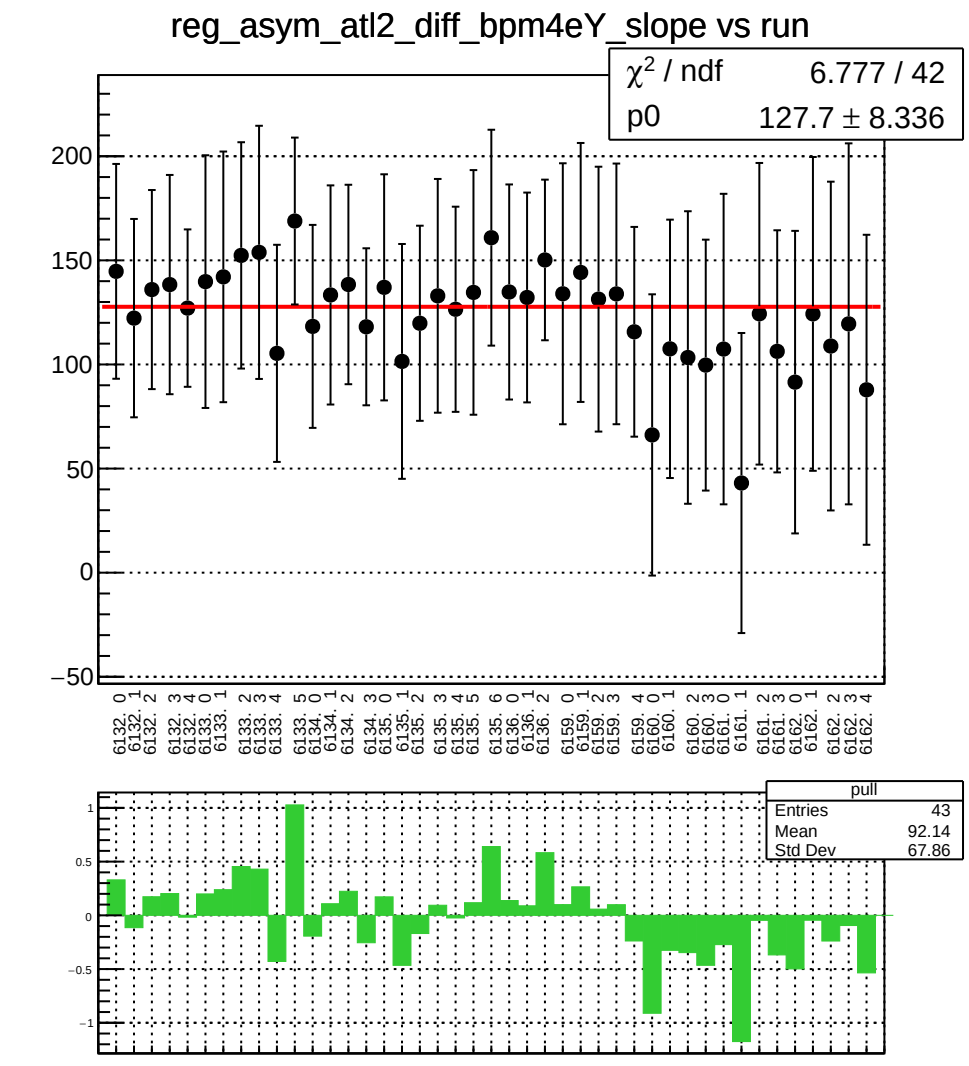

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 37.07 / 42
p0 −483.9 ± 11.77
−300
−350
−400
−450
−500
−550
−600
−650
−700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 155.7
Std Dev 133.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

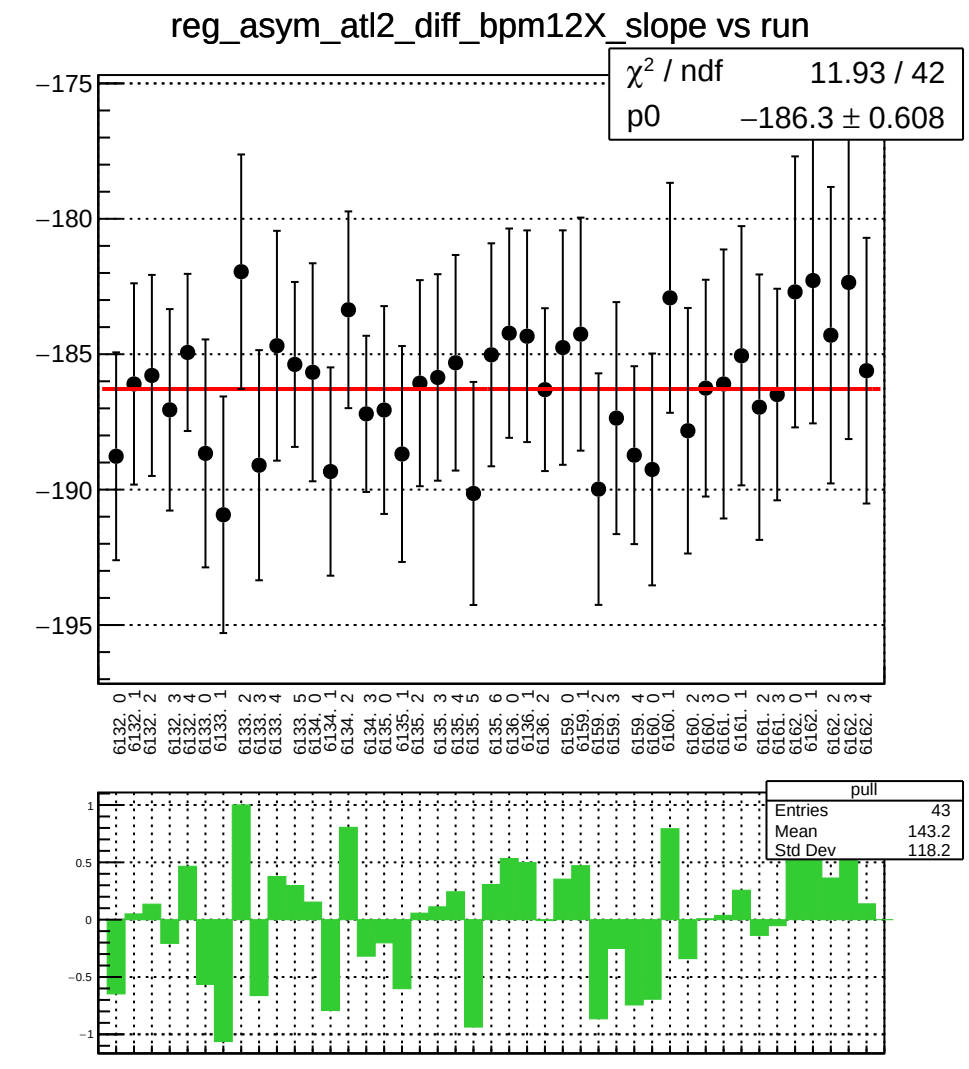

pull1D
Entries 43
Mean −0.05826
Std Dev 0.9266
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

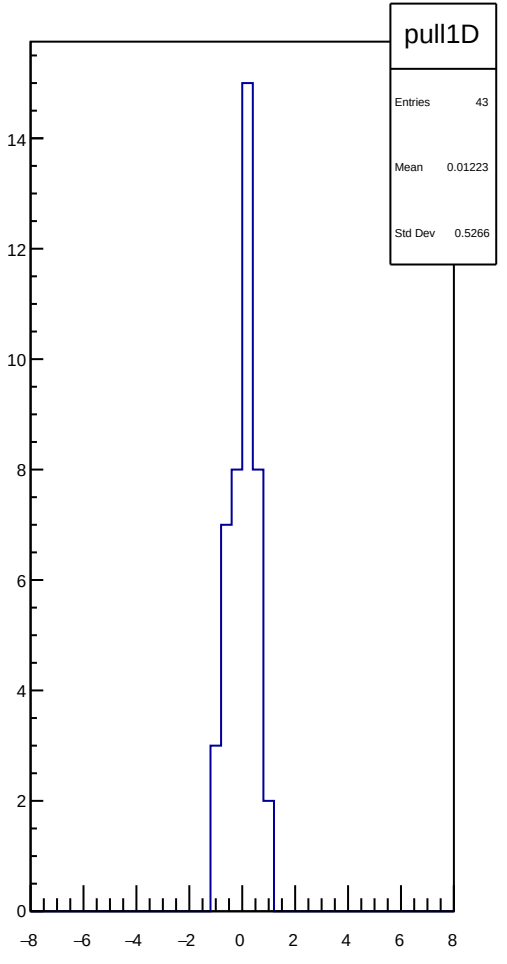

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 6.541 / 42
p0 −14.71± 7.852
150
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 89.26
Std Dev 65.07
1
0.5
0
−0.5
−1

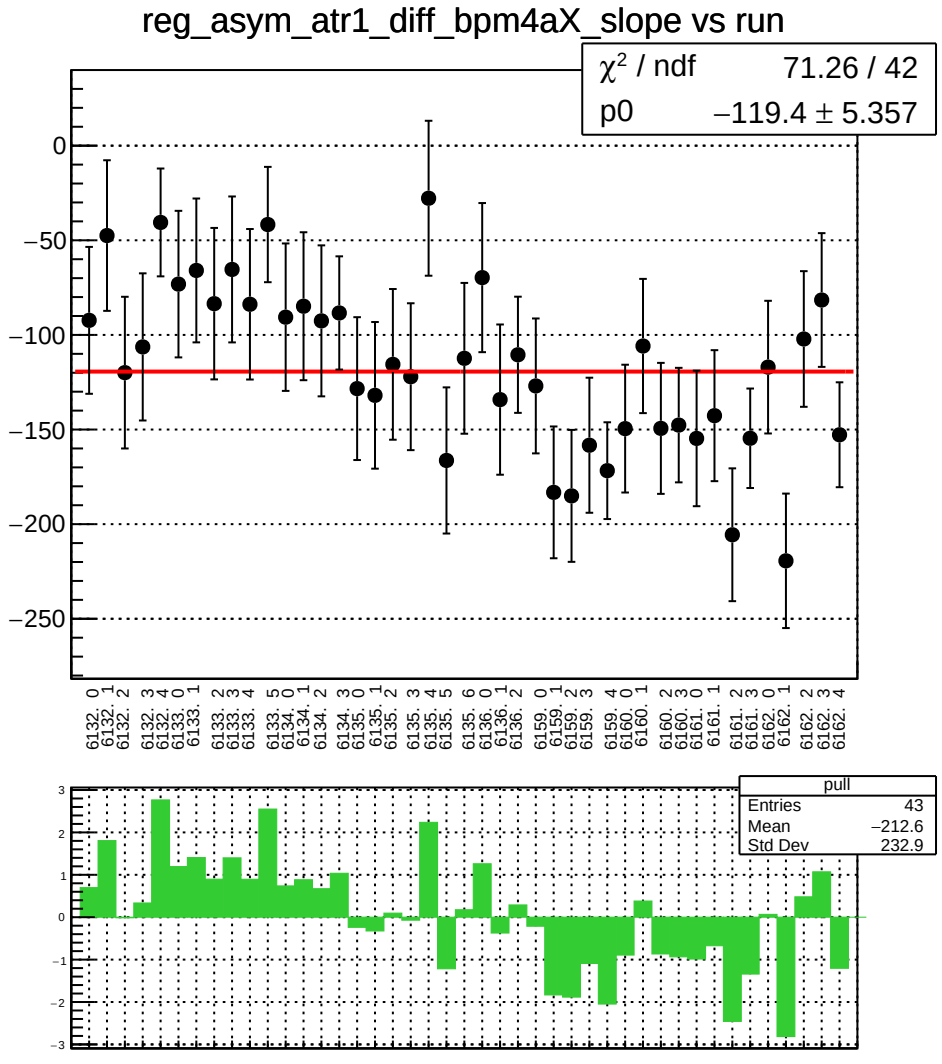

pull1D
Entries 43
Mean 0.03451
Std Dev 0.3885
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

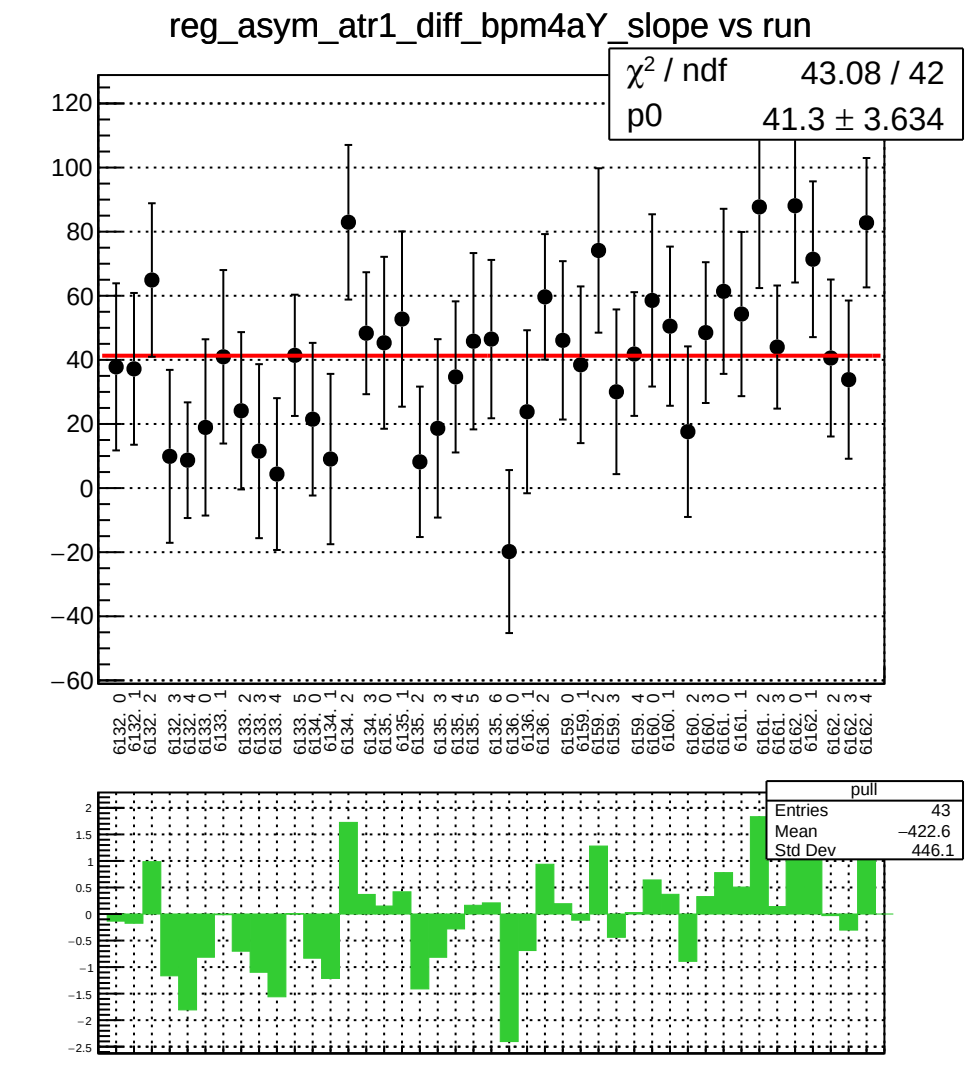

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 31.87 / 42
p0 544.8 ± 13.71
800
700
600
500
400
300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 146.9
Std Dev 124.2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.05706
Std Dev 0.859
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

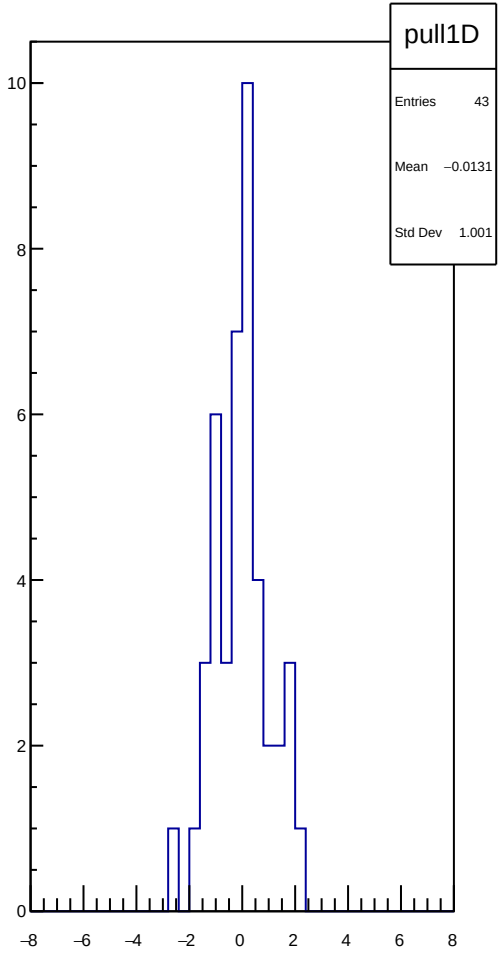

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 6.777 / 42
p0 127.7 ± 8.336
200
150
100
50
0
−50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 92.14
Std Dev 67.86
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.03458
Std Dev 0.3955
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

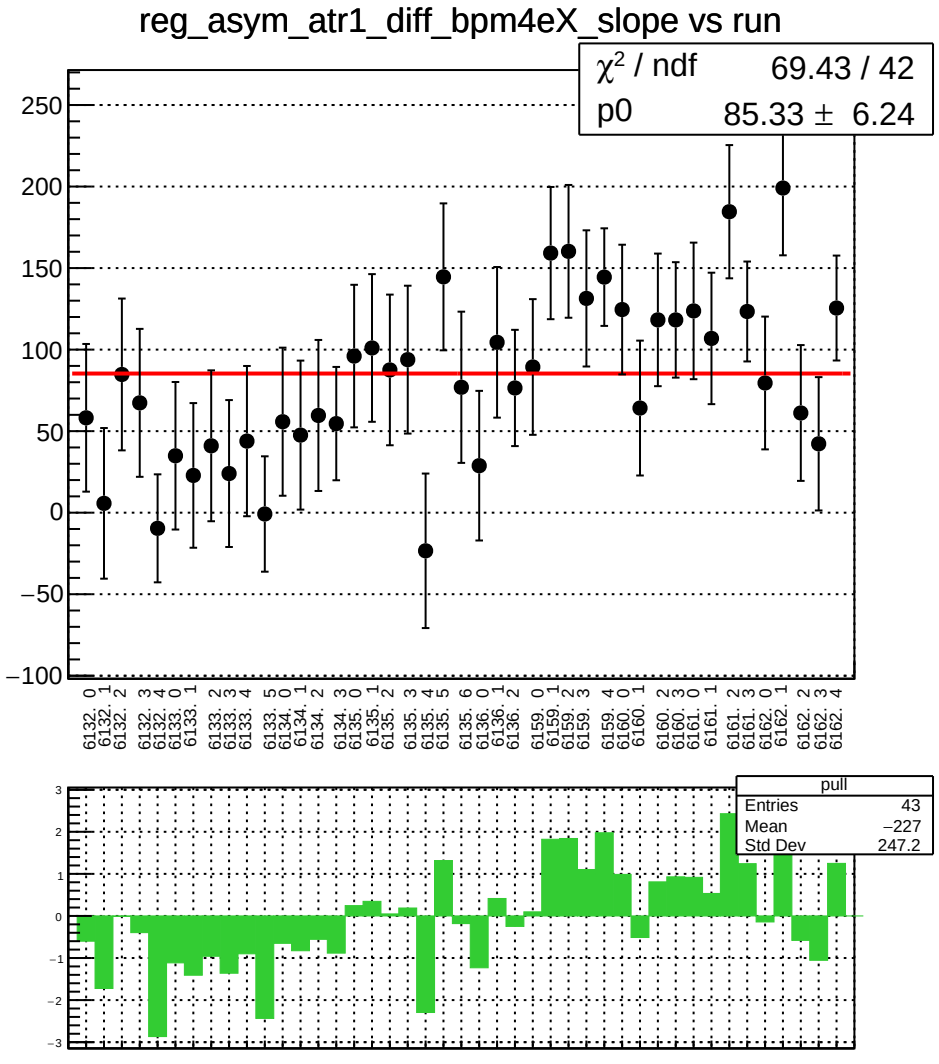

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 11.93 / 42
p0 −186.3 ± 0.608
−175
−180
−185
−190
−195
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 143.2
Std Dev 118.2
1
0.5
0
−0.5
−1

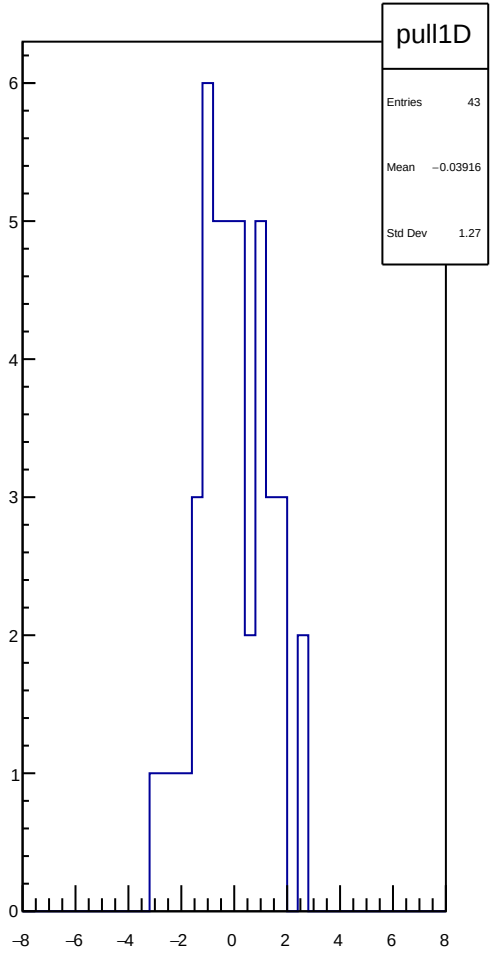

pull1D
Entries 43
Mean 0.01223
Std Dev 0.5266
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

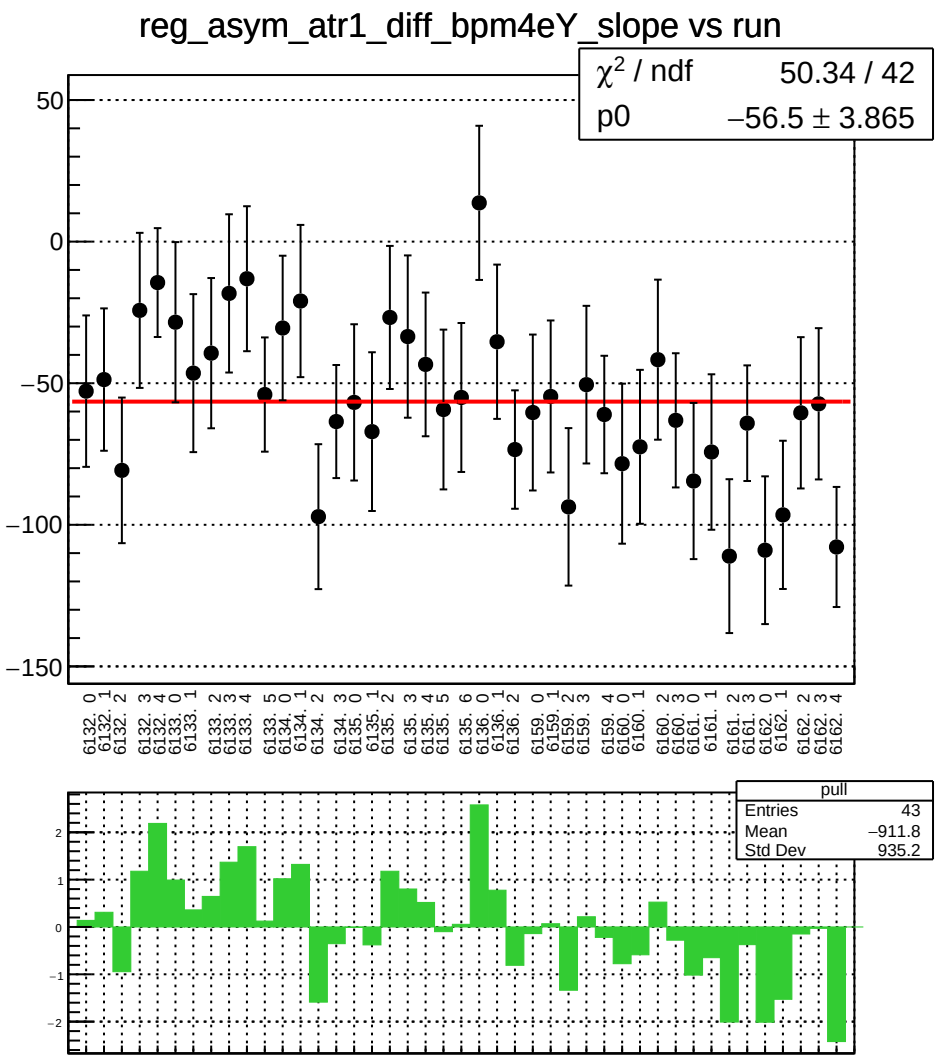

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 71.26 / 42
p0 −119.4 ± 5.357
0
−50
−100
−150
−200
−250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −212.6
Std Dev 232.9
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.04325
Std Dev 1.287
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

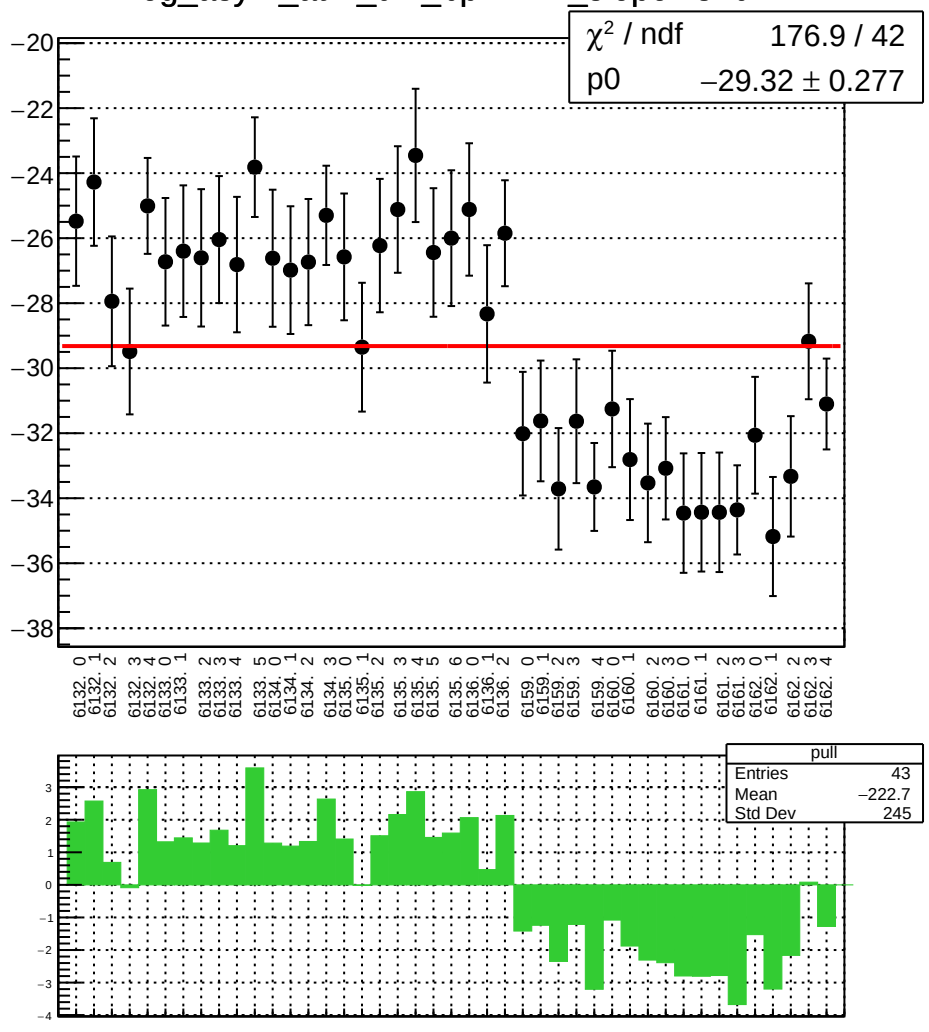

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 43.08 / 42
p0 41.3 ± 3.634
pull
Entries 43
Mean −422.6
Std Dev 446.1

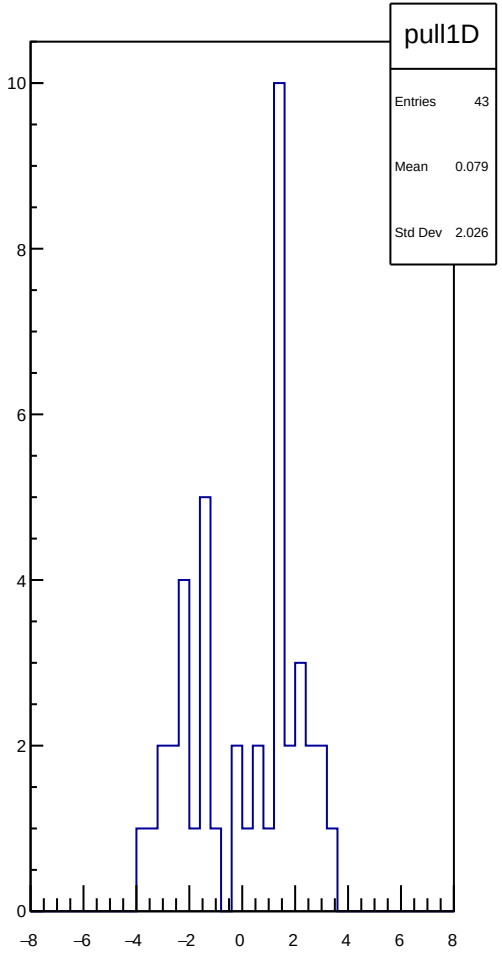

pull1D
Entries 43
Mean −0.0131
Std Dev 1.001

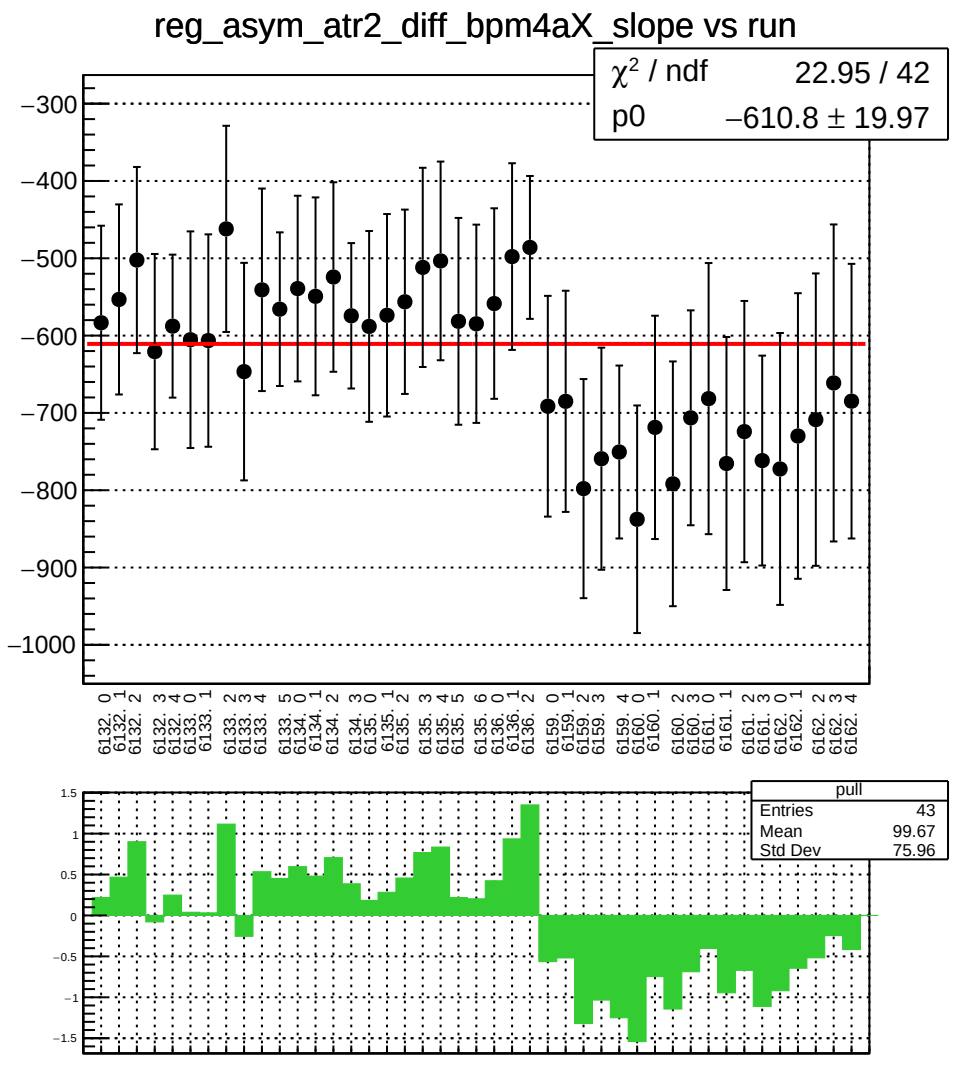

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 69.43 / 42
p0 85.33 ± 6.24
pull
Entries 43
Mean −227
Std Dev 247.2

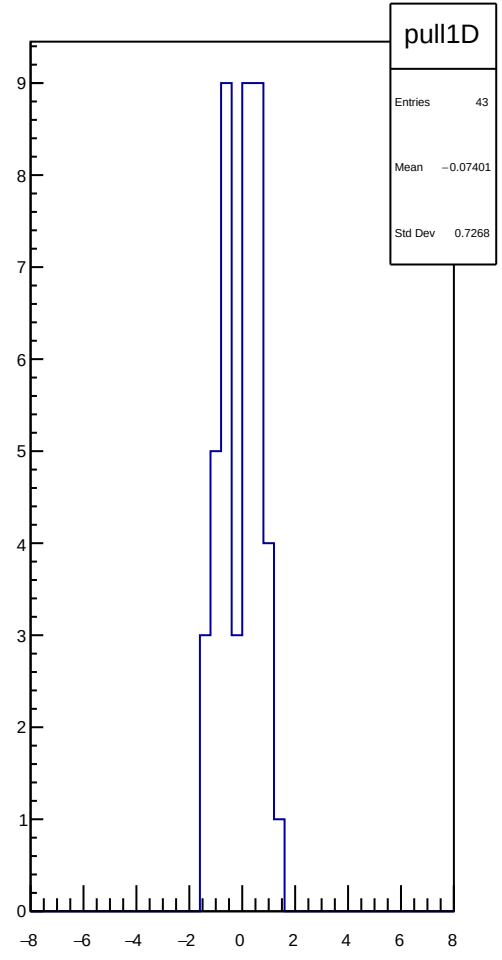

pull1D
Entries 43
Mean −0.03916
Std Dev 1.27

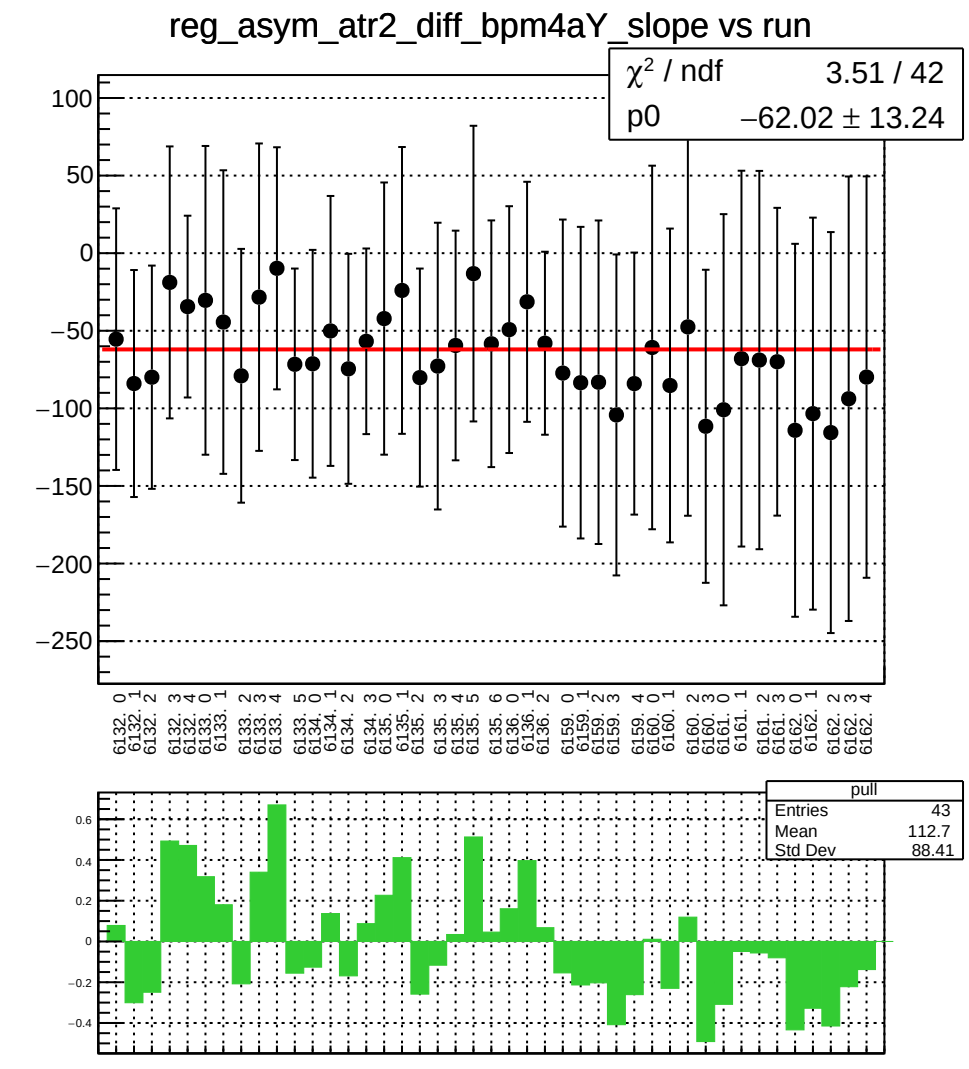

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 50.34 / 42
p0 −56.5 ± 3.865
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −911.8
Std Dev 935.2
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.00807
Std Dev 1.082
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

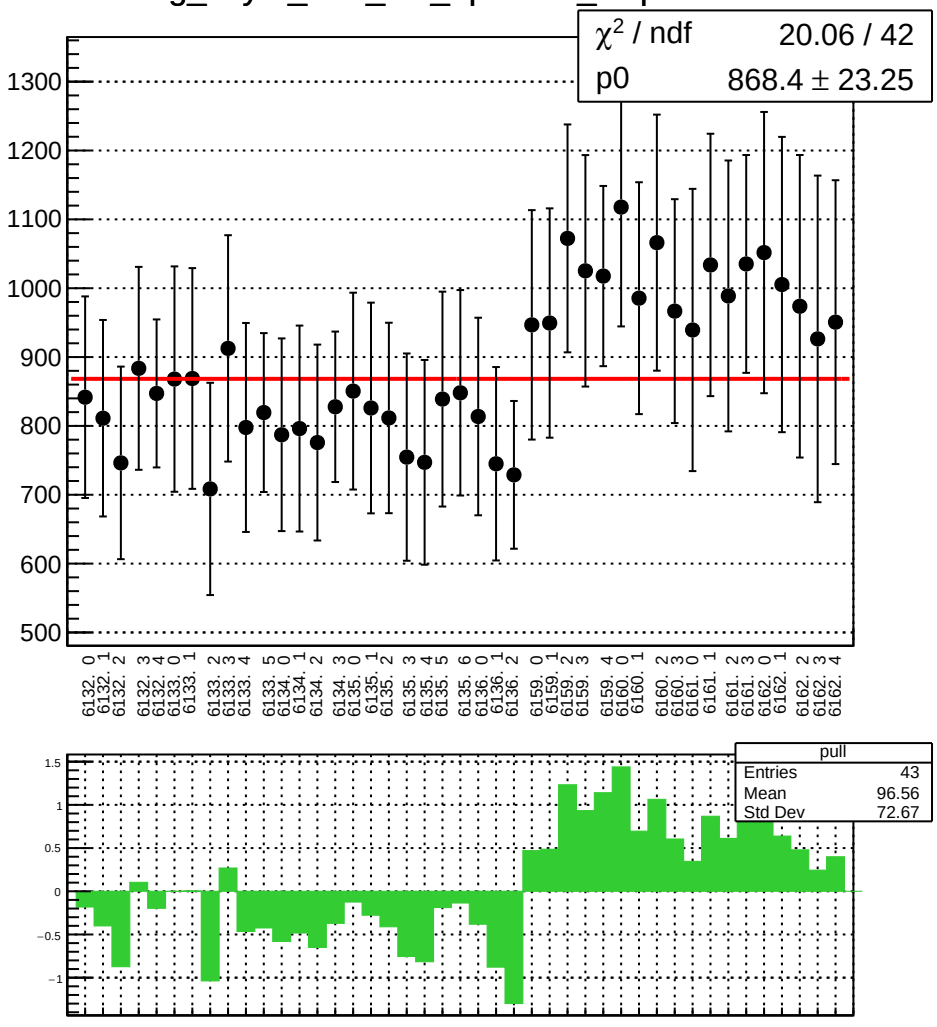

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 176.9 / 42
p0 −29.32 ± 0.277
pull
Entries 43
Mean −222.7
Std Dev 245

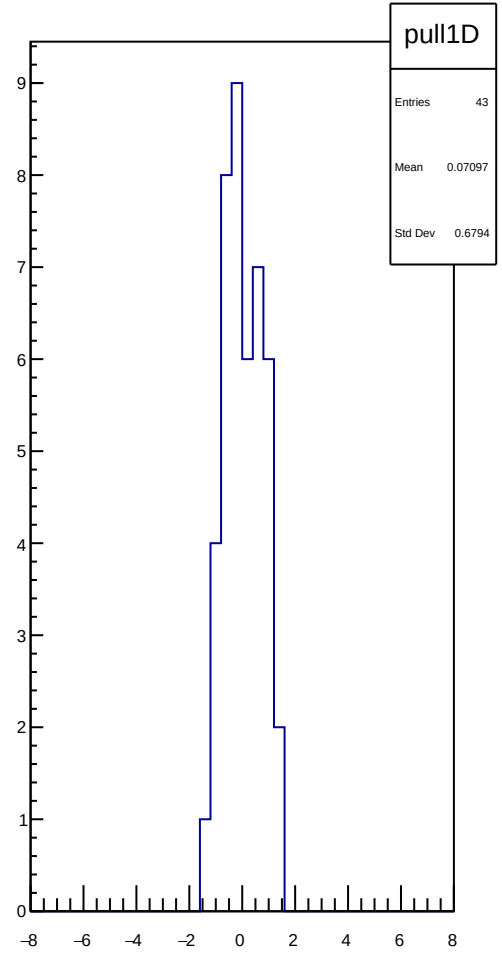

pull1D
Entries 43
Mean 0.079
Std Dev 2.026

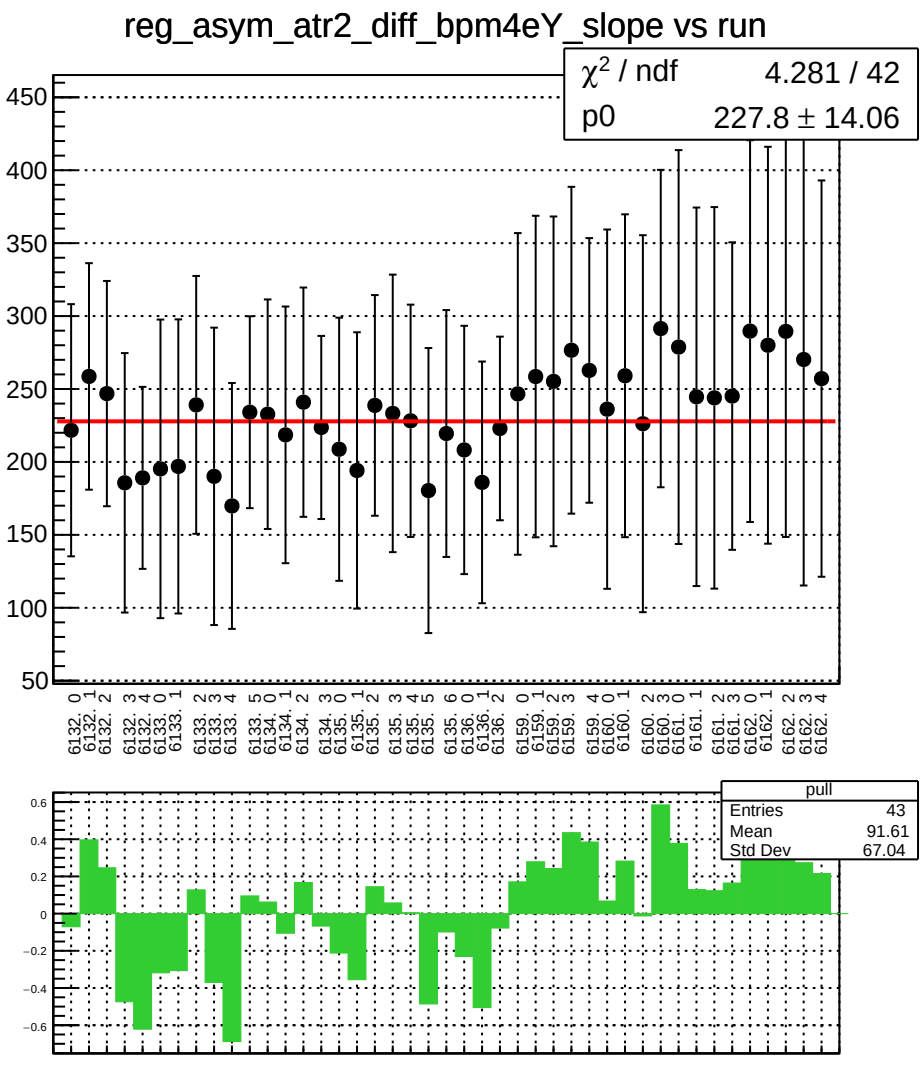

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 22.95 / 42
p0 −610.8 ± 19.97
−300
−400
−500
−600
−700
−800
−900
−1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 99.67
Std Dev 75.96
1.5
1
0.5
0
−0.5
−1
−1.5

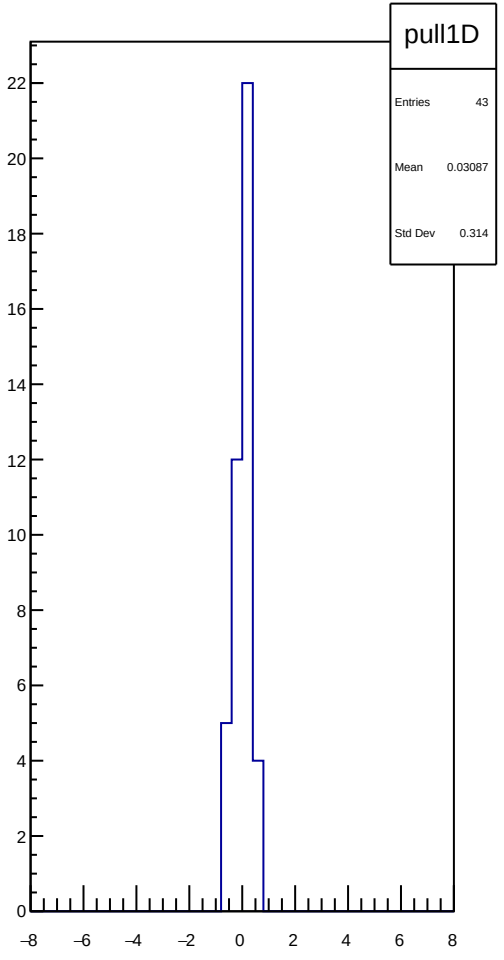

pull1D
Entries 43
Mean −0.07401
Std Dev 0.7268
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

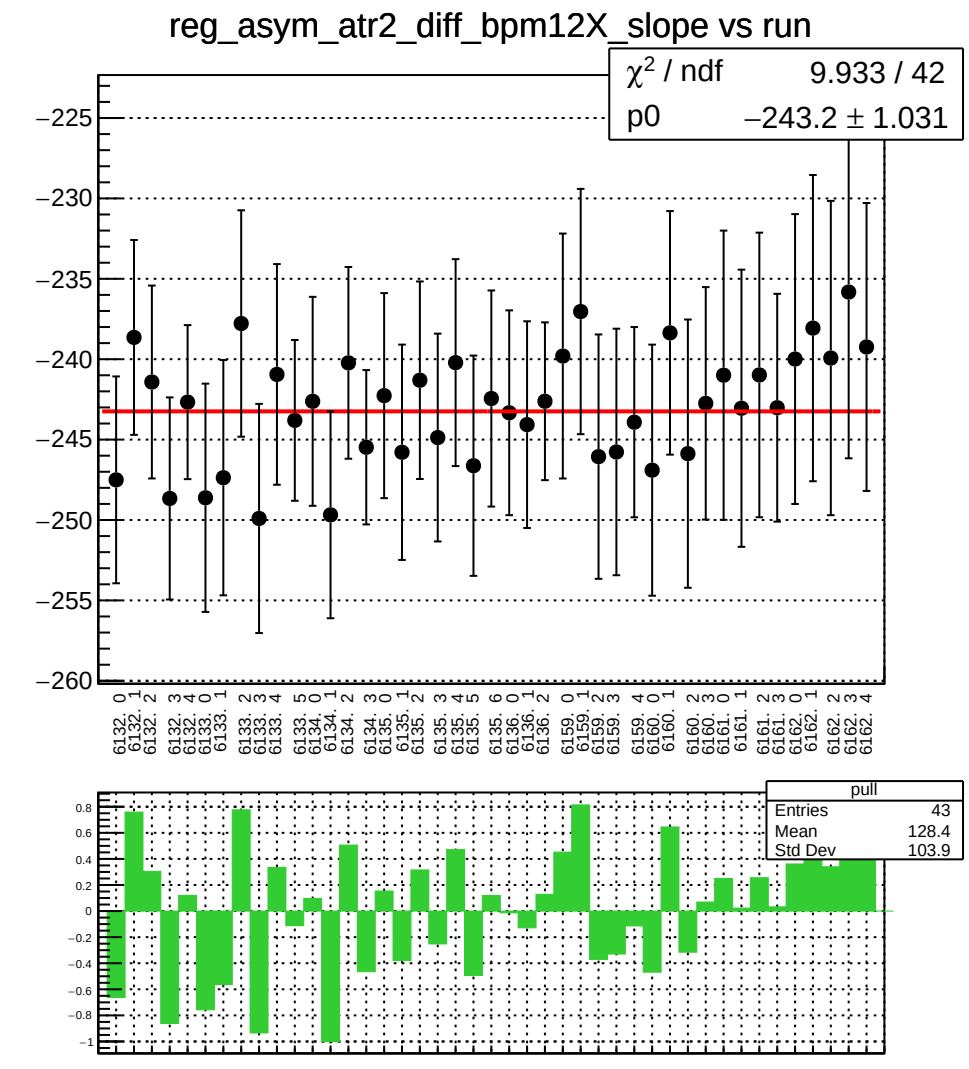

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 3.51 / 42
p0 −62.02 ± 13.24
100
50
0
−50
−100
−150
−200
−250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 112.7
Std Dev 88.41
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 43
Mean −0.01887
Std Dev 0.2851
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

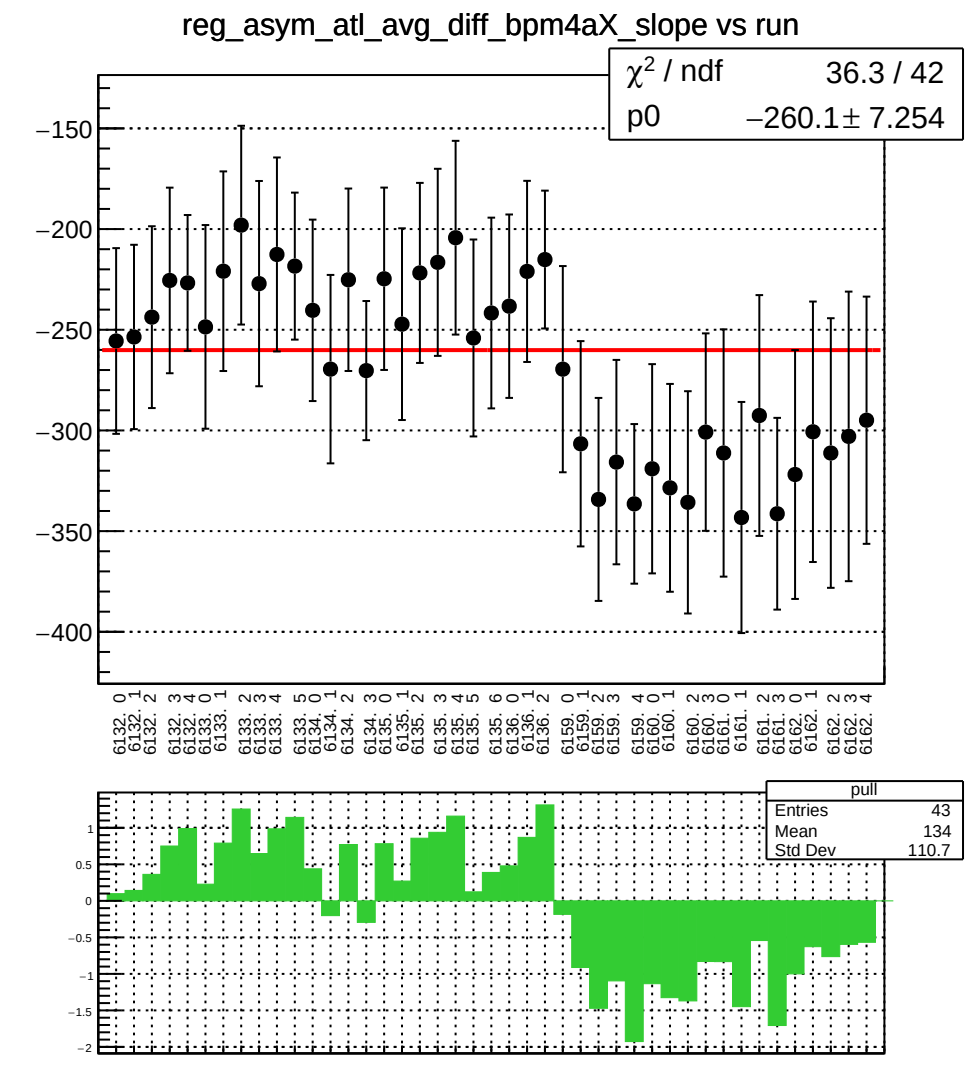

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 20.06 / 42
p0 868.4 ± 23.25
pull
Entries 43
Mean 96.56
Std Dev 72.67

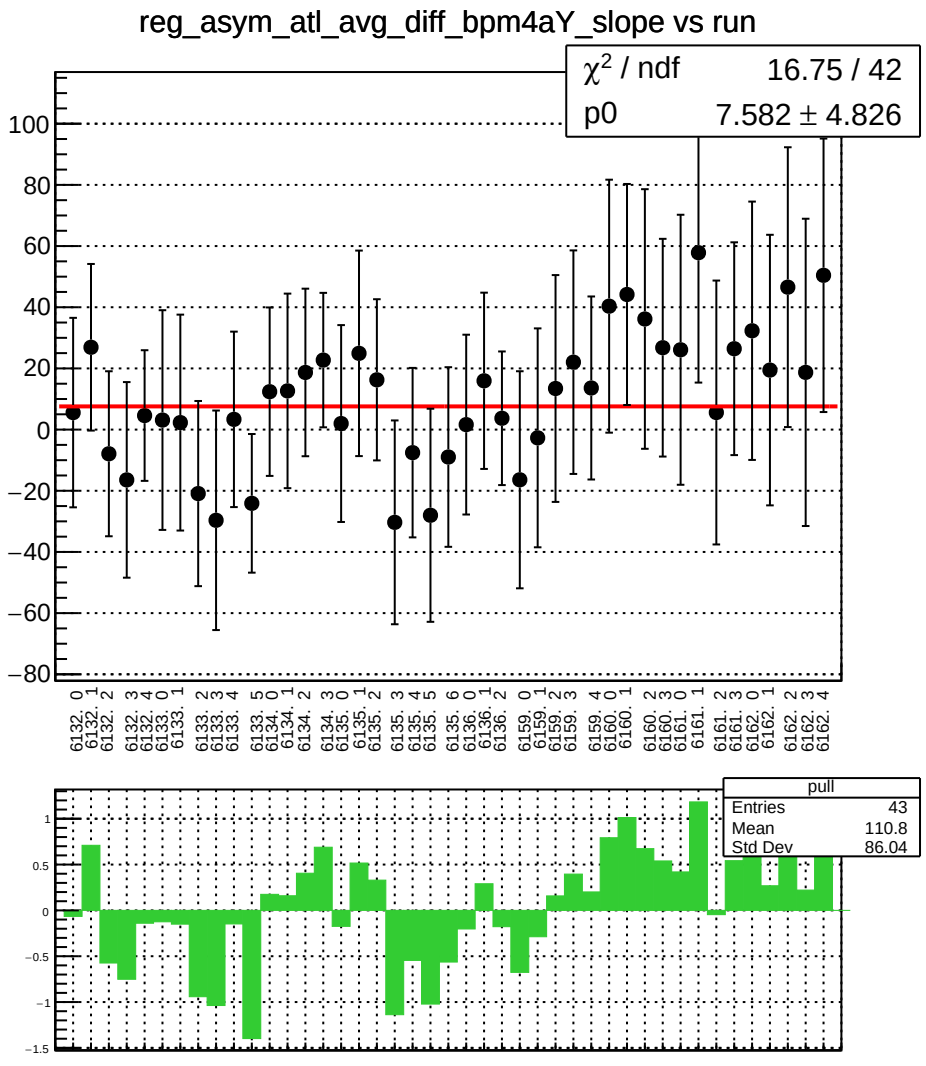

pull1D
Entries 43
Mean 0.07097
Std Dev 0.6794

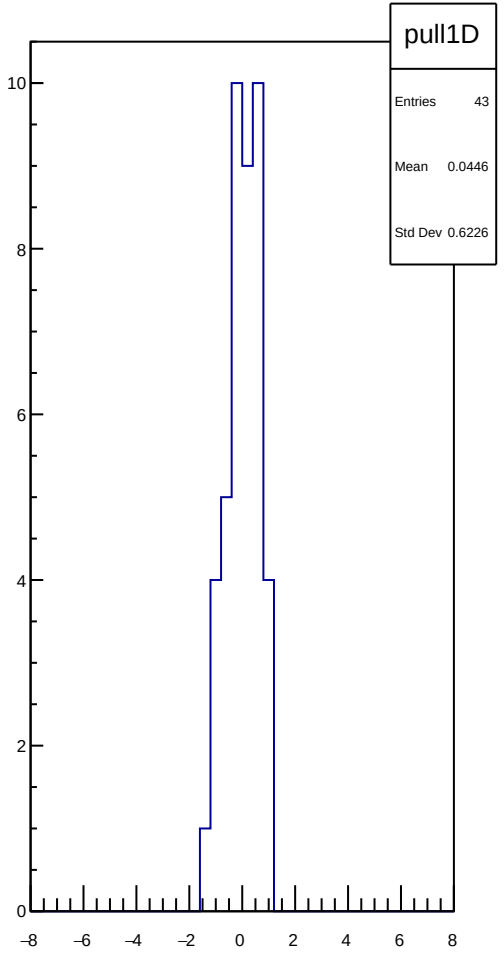

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 4.281 / 42
p0 227.8 ± 14.06
pull
Entries 43
Mean 91.61
Std Dev 67.04

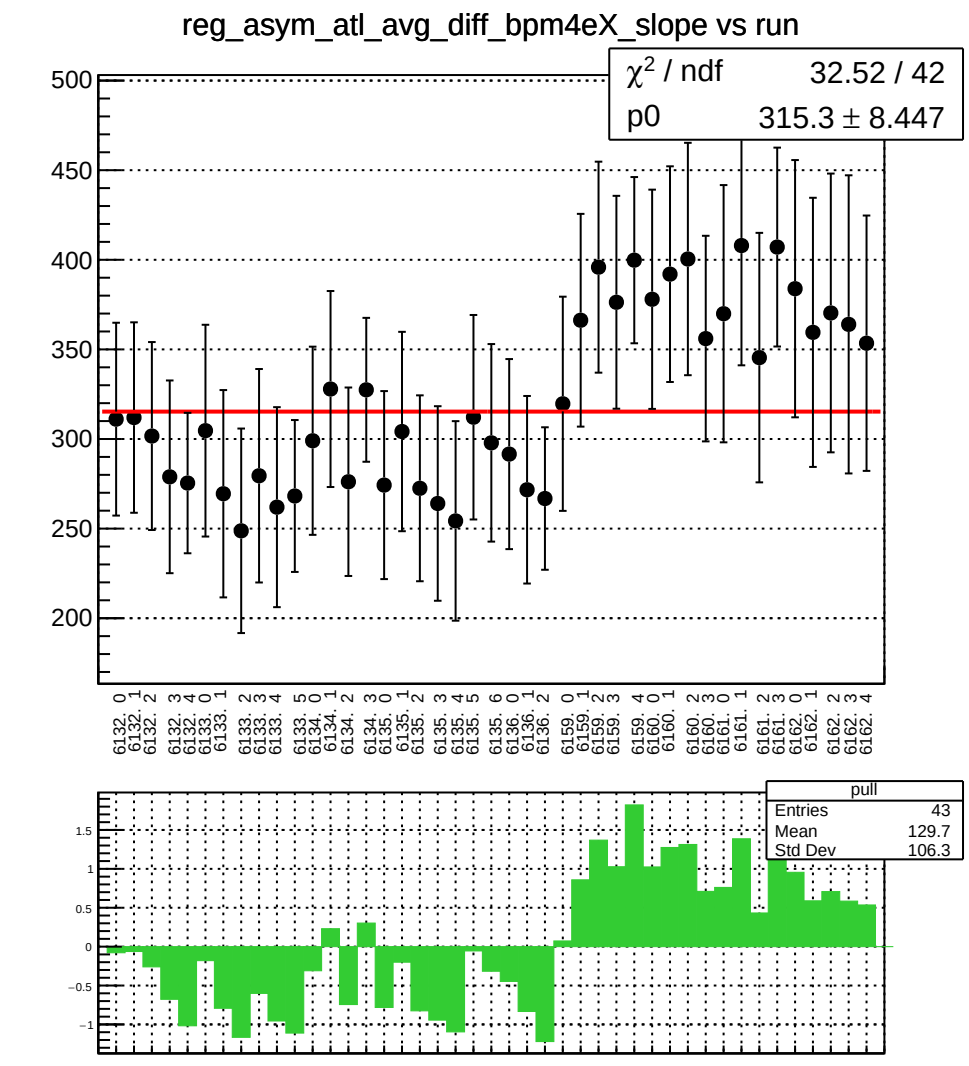

pull1D
Entries 43
Mean 0.03087
Std Dev 0.314

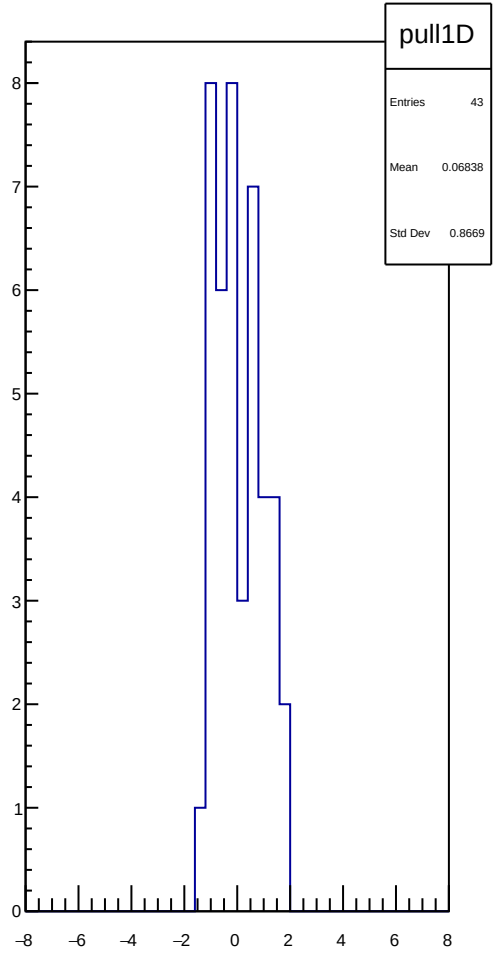

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 9.933 / 42
p0 −243.2 ± 1.031
−225
−230
−235
−240
−245
−250
−255
−260
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 128.4
Std Dev 103.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 43
Mean 0.01891
Std Dev 0.4802
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

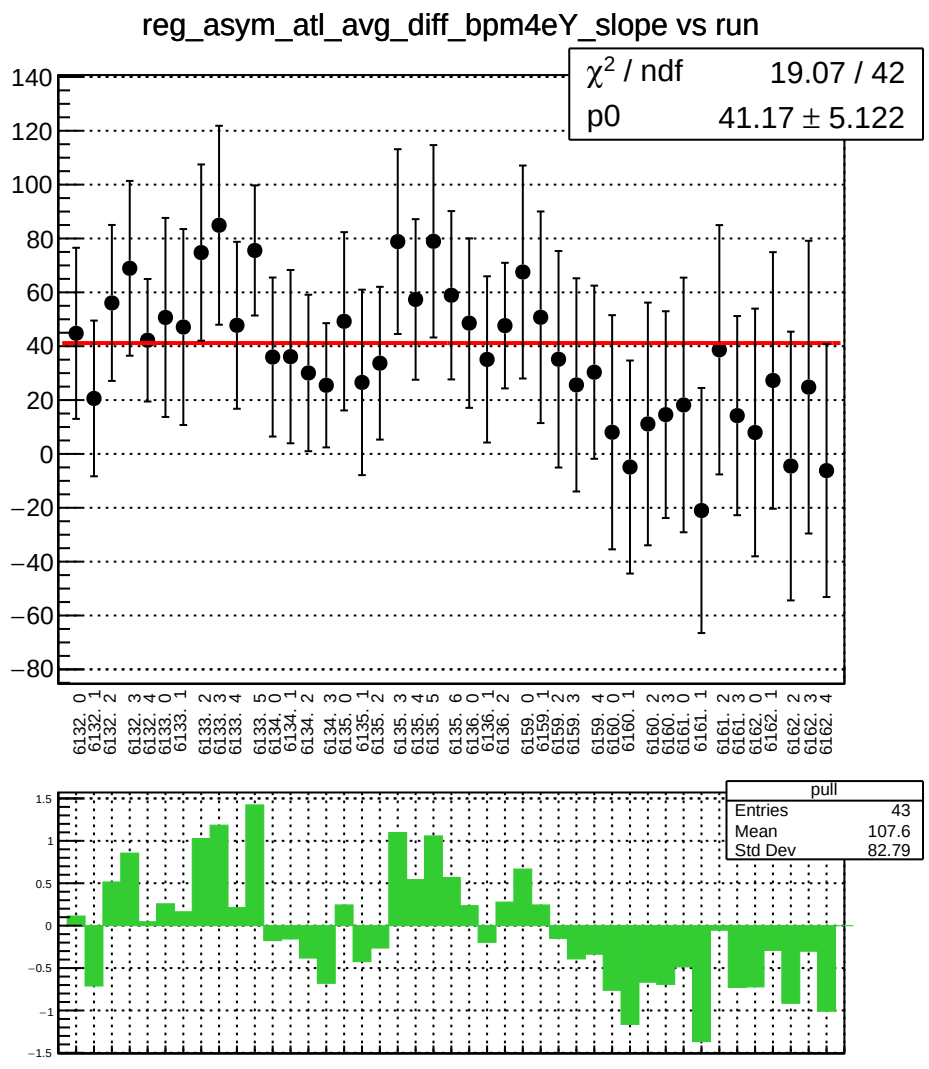

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 36.3 / 42
p0 −260.1± 7.254
−150
−200
−250
−300
−350
−400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 134
Std Dev 110.7
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.07072
Std Dev 0.9161
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

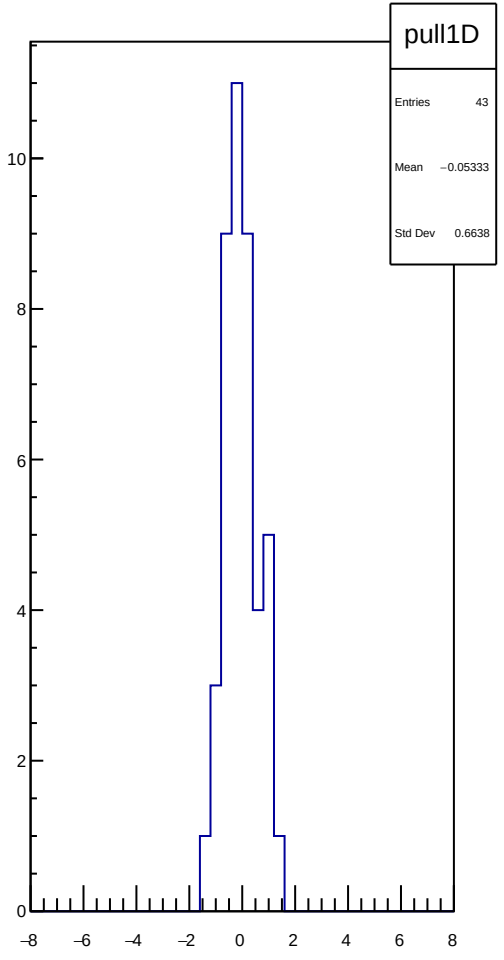

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.75 / 42
p0 7.582 ± 4.826
pull
Entries 43
Mean 110.8
Std Dev 86.04

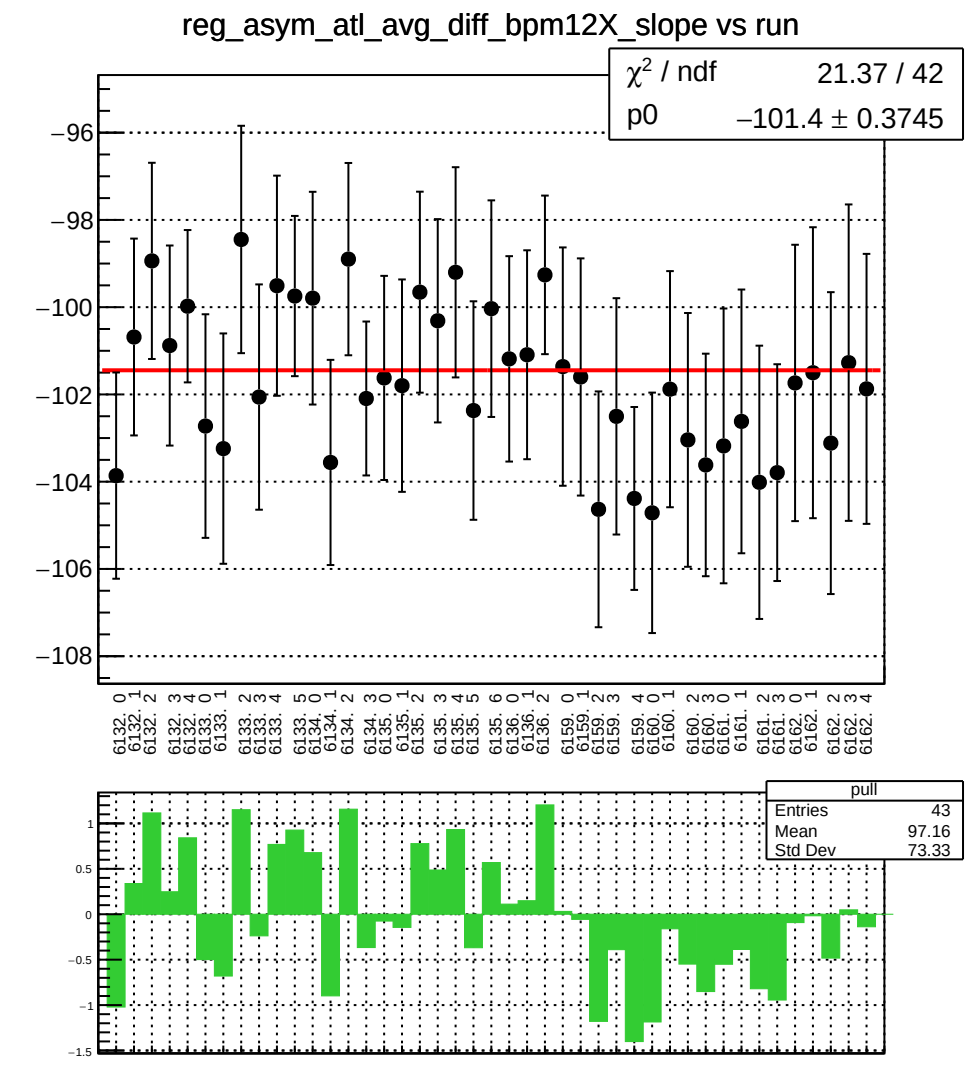

pull1D
Entries 43
Mean 0.0446
Std Dev 0.6226

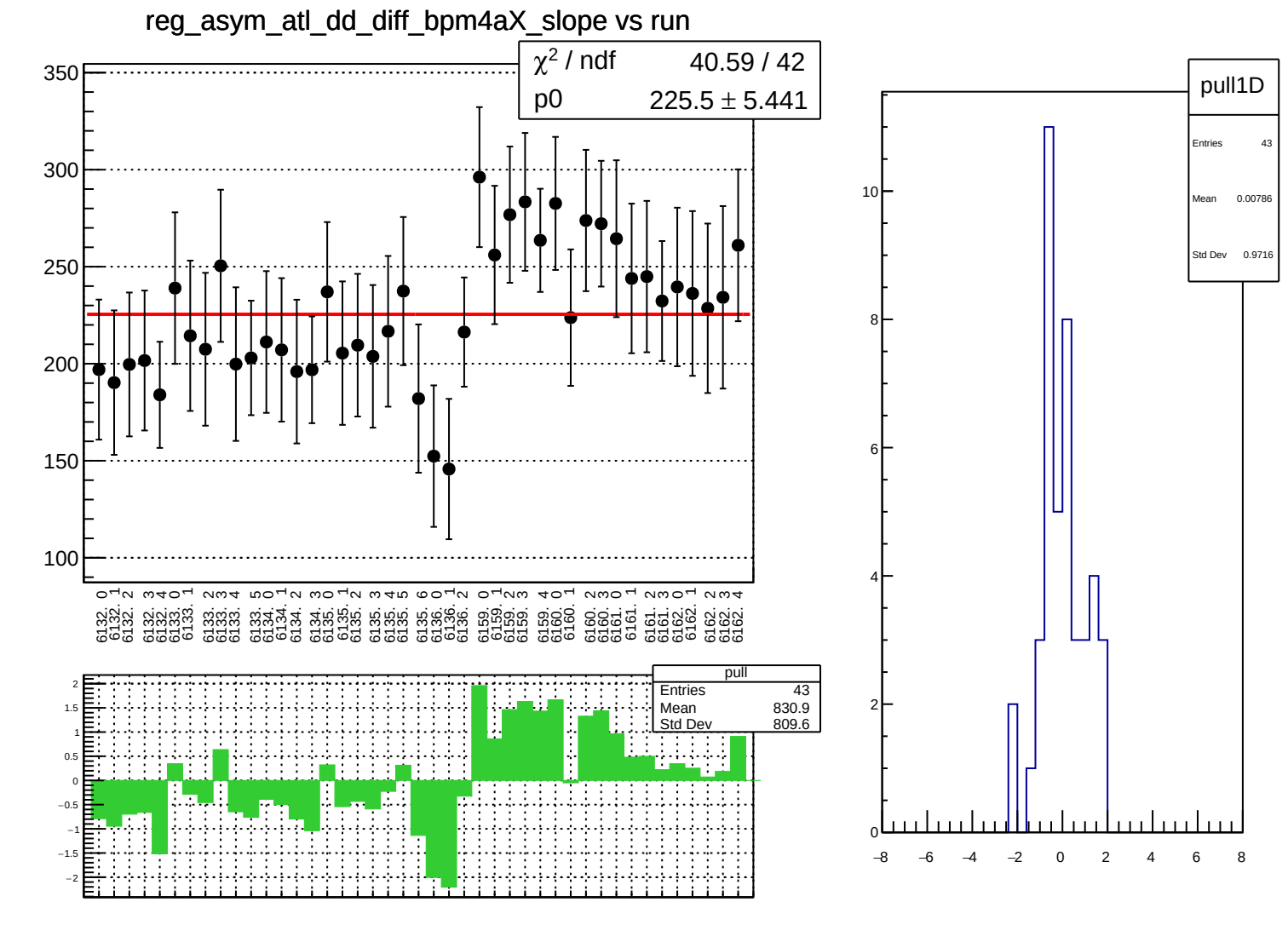

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 32.52 / 42
p0 315.3 ± 8.447
pull
Entries 43
Mean 129.7
Std Dev 106.3

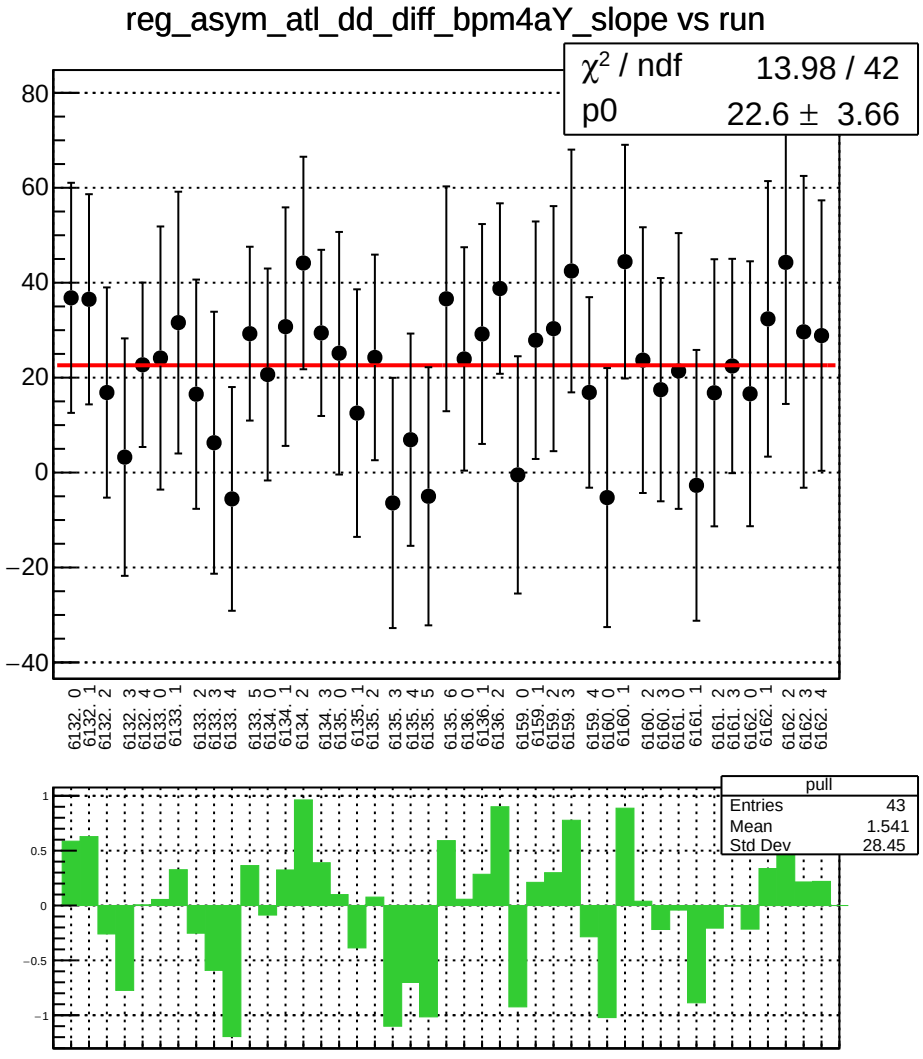

pull1D
Entries 43
Mean 0.06838
Std Dev 0.8669

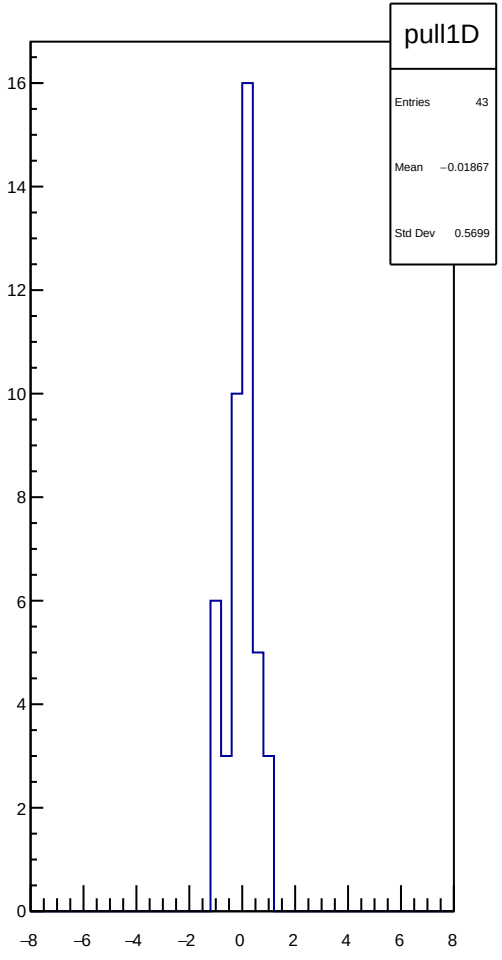

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.07 / 42
p0 41.17 ± 5.122
pull
Entries 43
Mean 107.6
Std Dev 82.79

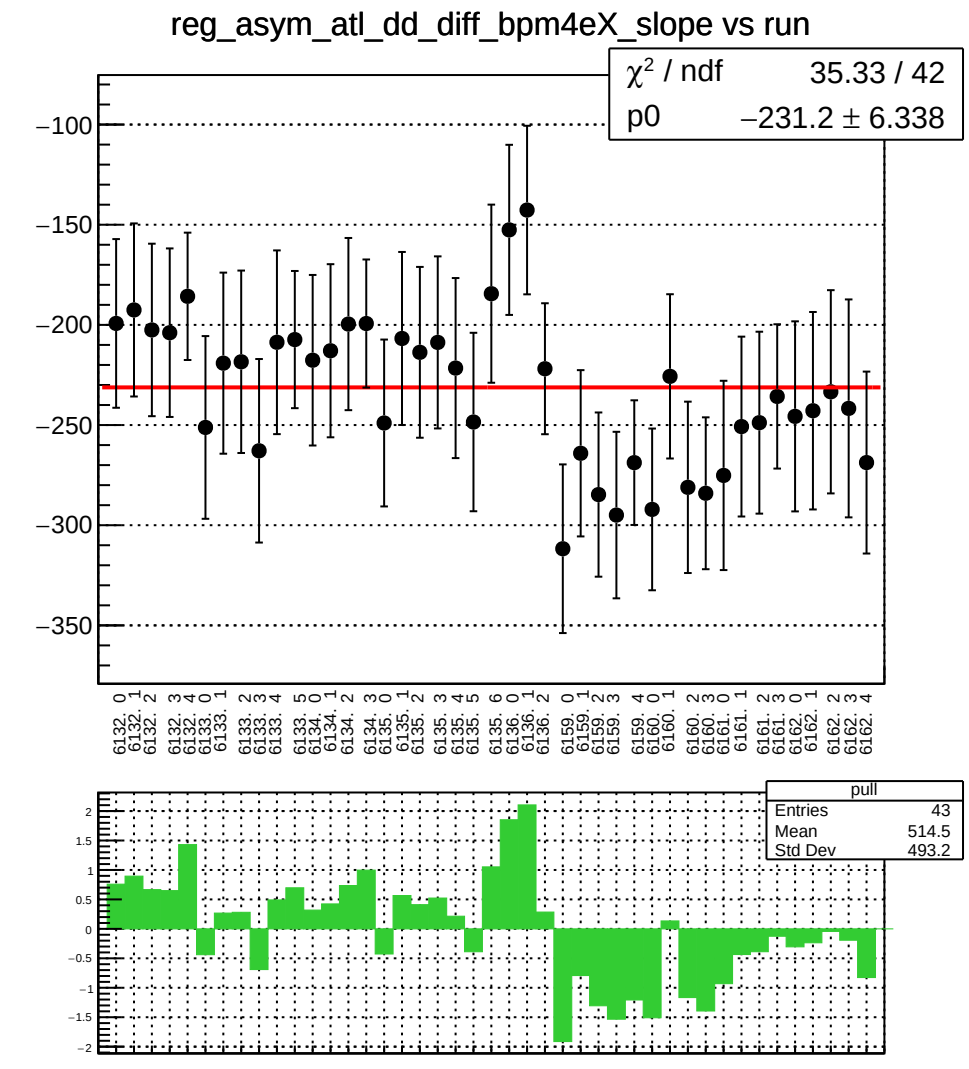

pull1D
Entries 43
Mean −0.05333
Std Dev 0.6638

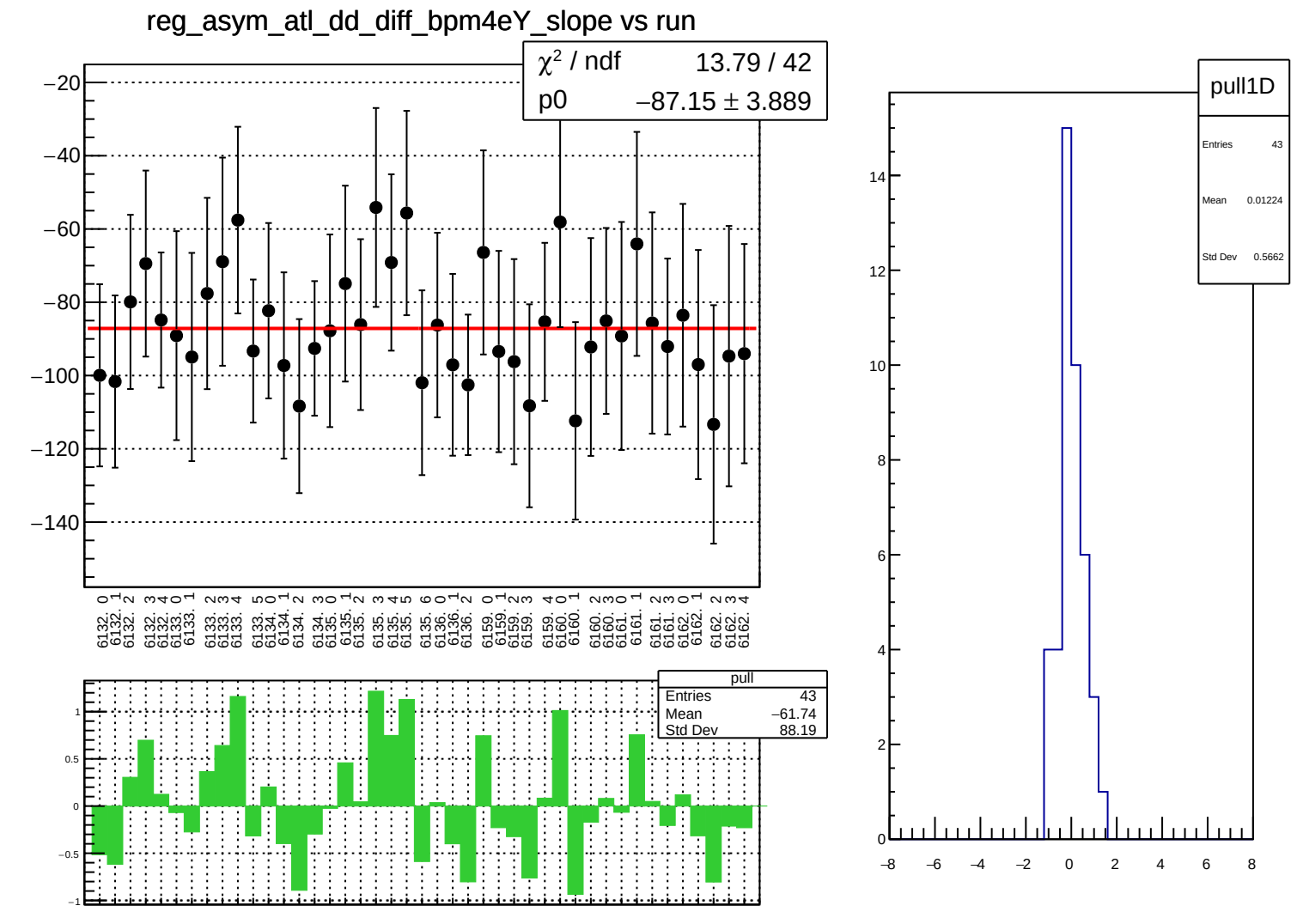

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 21.37 / 42
p0 −101.4 ± 0.3745
−96
−98
−100
−102
−104
−106
−108
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 97.16
Std Dev 73.33
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.04561
Std Dev 0.7035
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

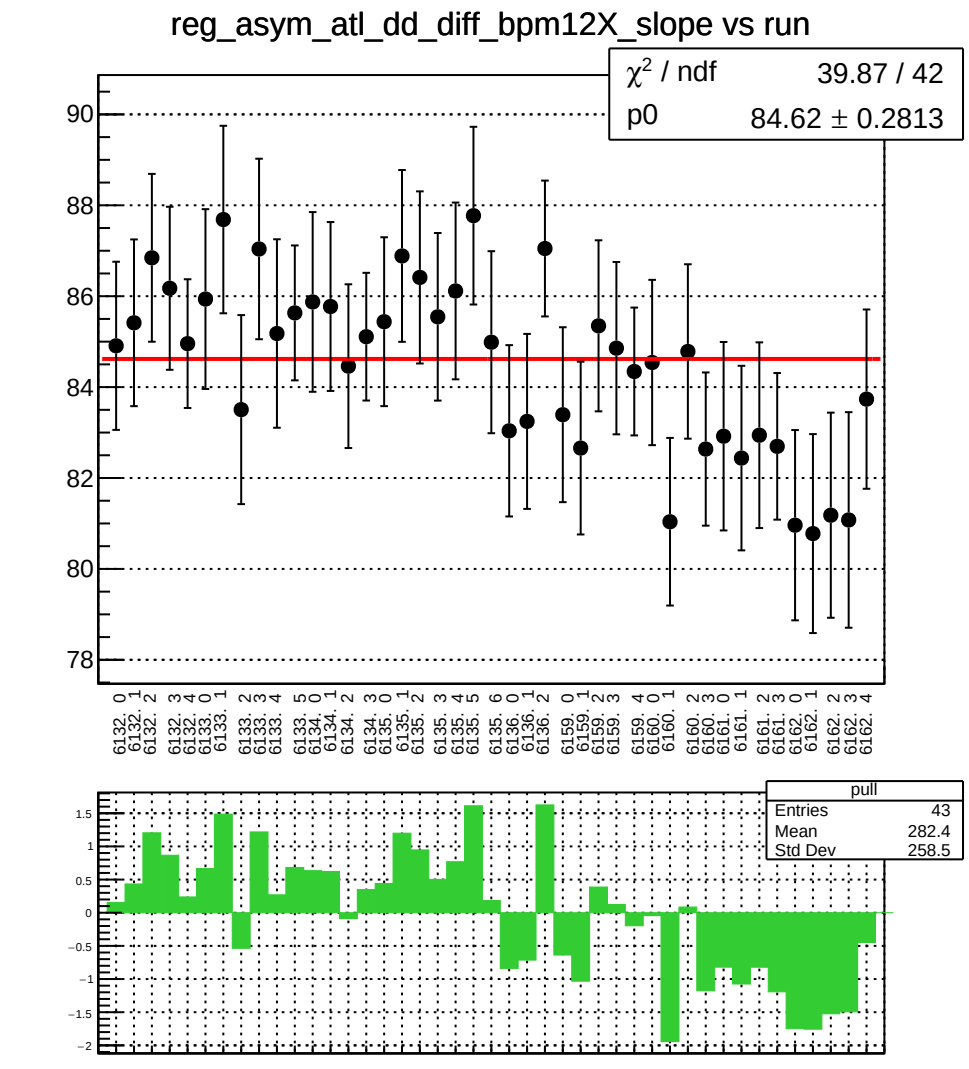

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 40.59 / 42
p0 225.5 ± 5.441
350
300
250
200
150
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 830.9
Std Dev 809.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.00786
Std Dev 0.9716
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

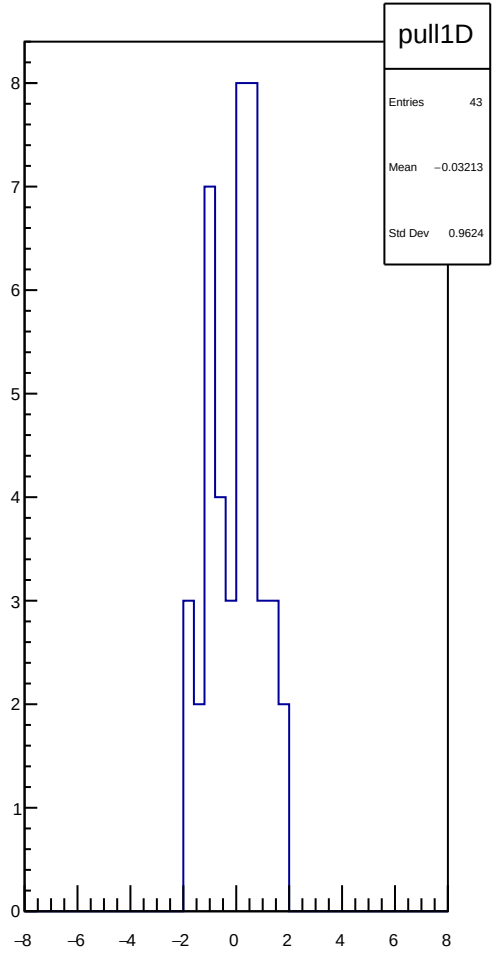

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.98 / 42
p0 22.6 ± 3.66
pull
Entries 43
Mean 1.541
Std Dev 28.45

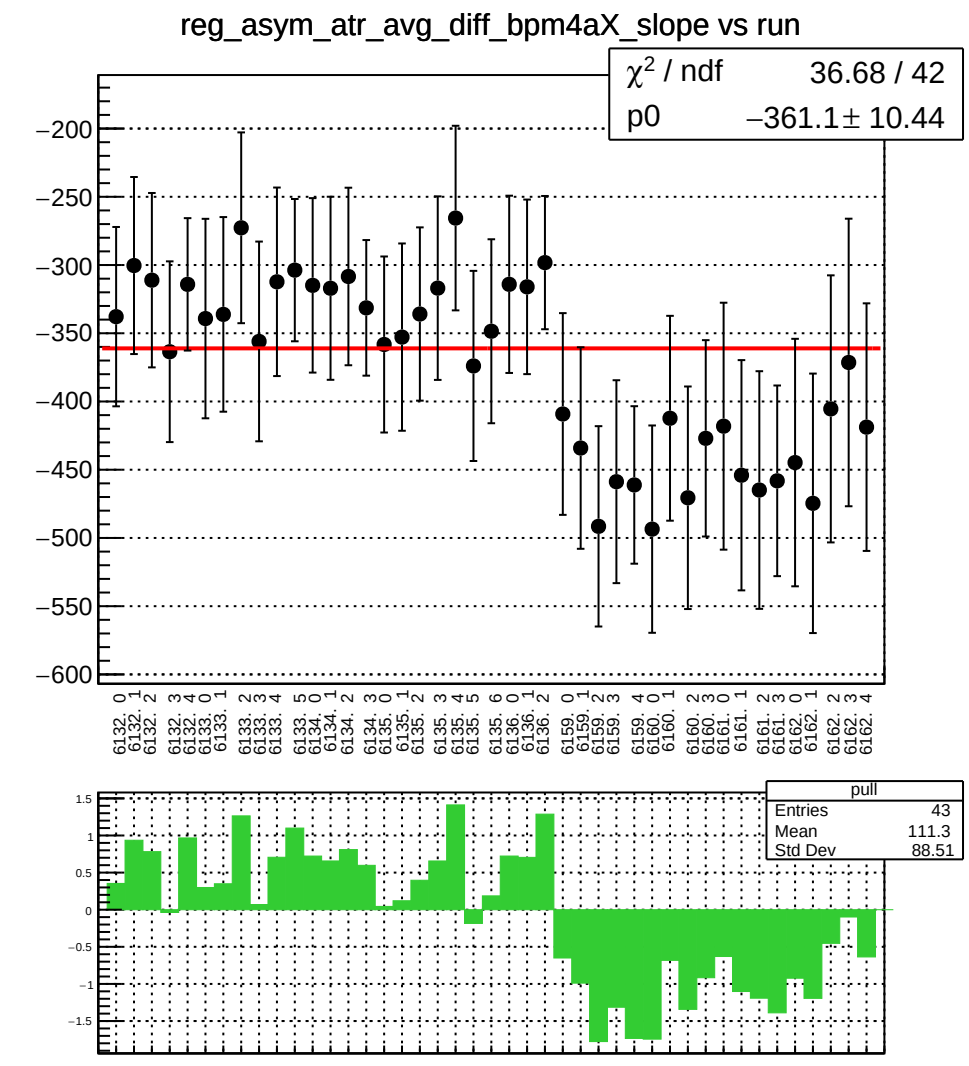

pull1D
Entries 43
Mean −0.01867
Std Dev 0.5699

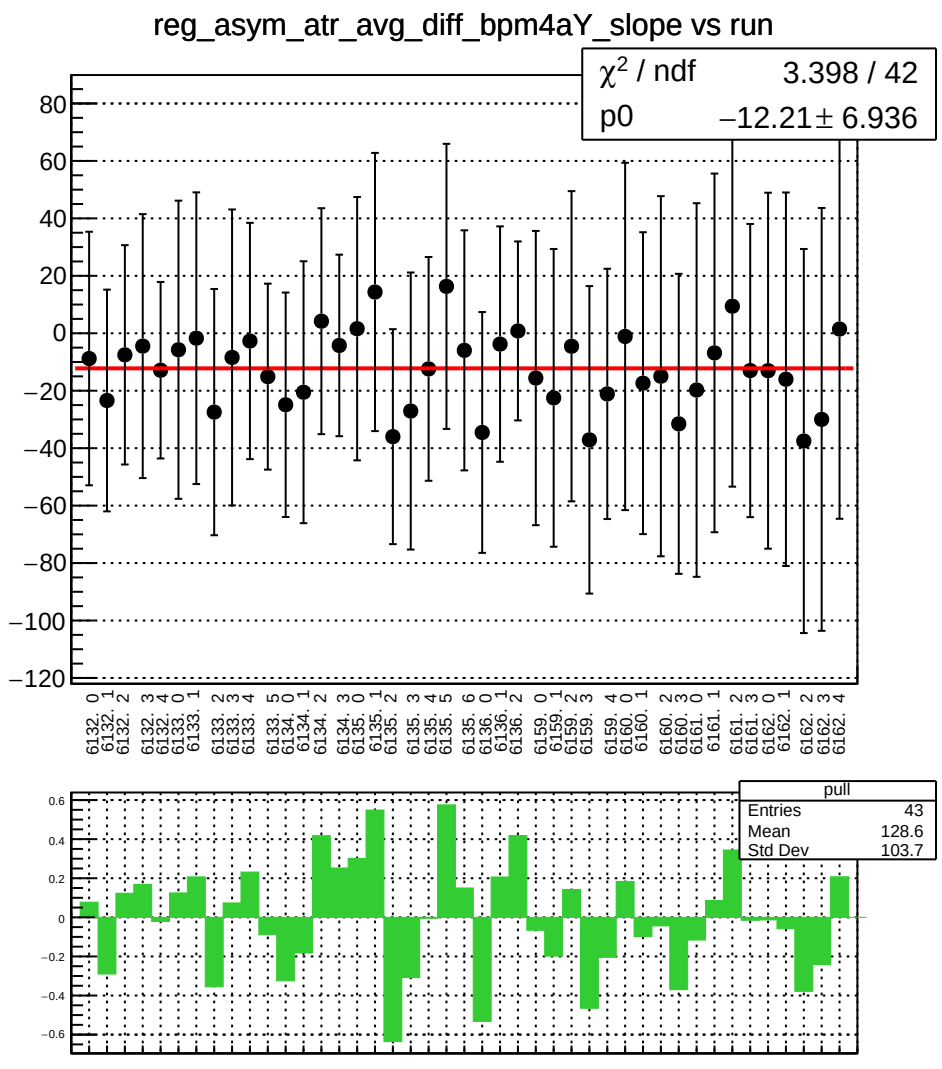

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.33 / 42
p0 −231.2 ± 6.338
−100
−150
−200
−250
−300
−350
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 514.5
Std Dev 493.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01149
Std Dev 0.9063
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

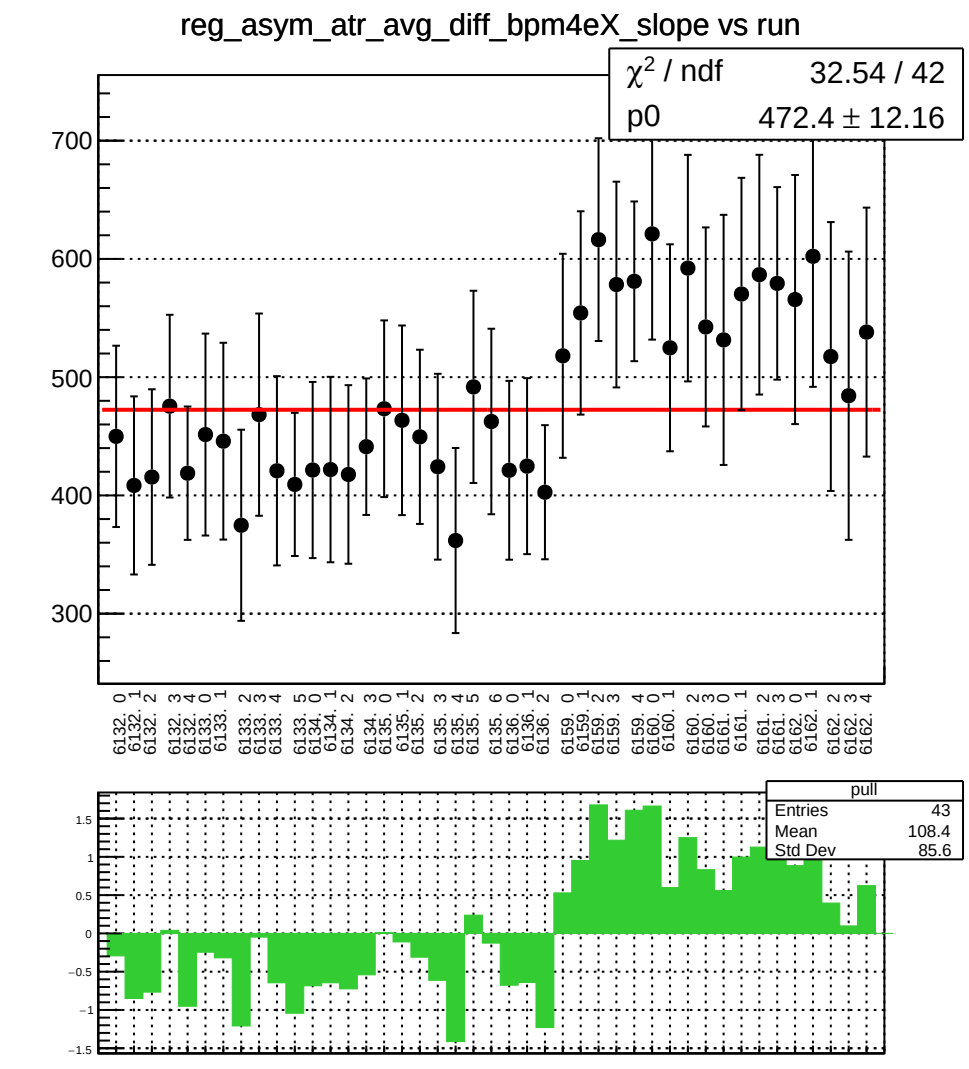

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.79 / 42
p0 −87.15 ± 3.889
−20
−40
−60
−80
−100
−120
−140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −61.74
Std Dev 88.19
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.01224
Std Dev 0.5662
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

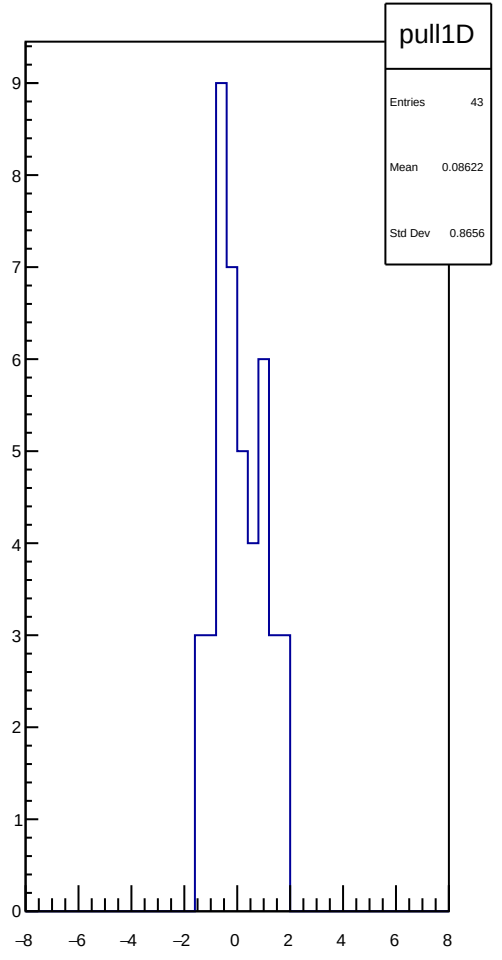

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 39.87 / 42
p0 84.62 ± 0.2813
90
88
86
84
82
80
78
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 282.4
Std Dev 258.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

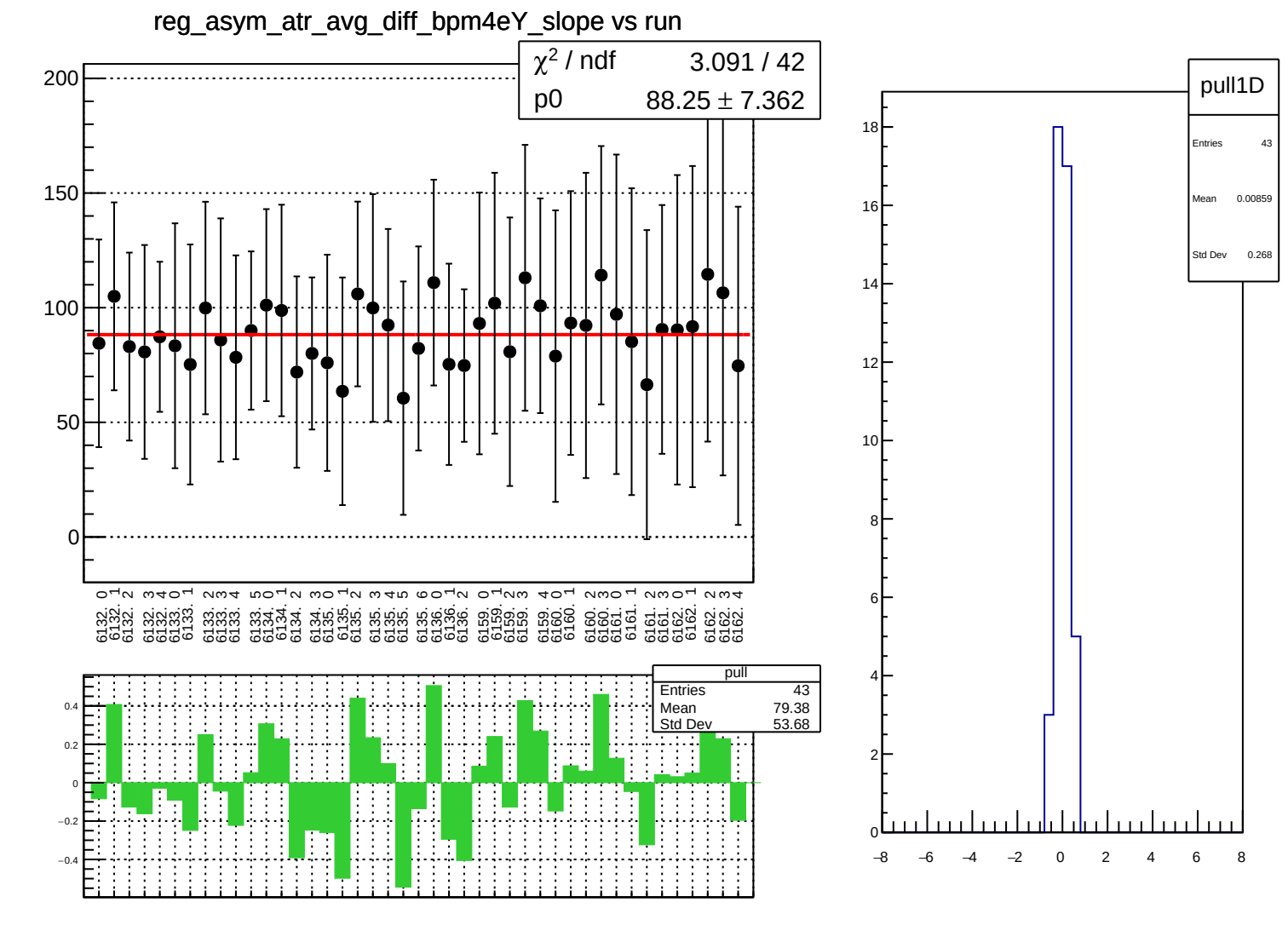

pull1D
Entries 43
Mean −0.03213
Std Dev 0.9624
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

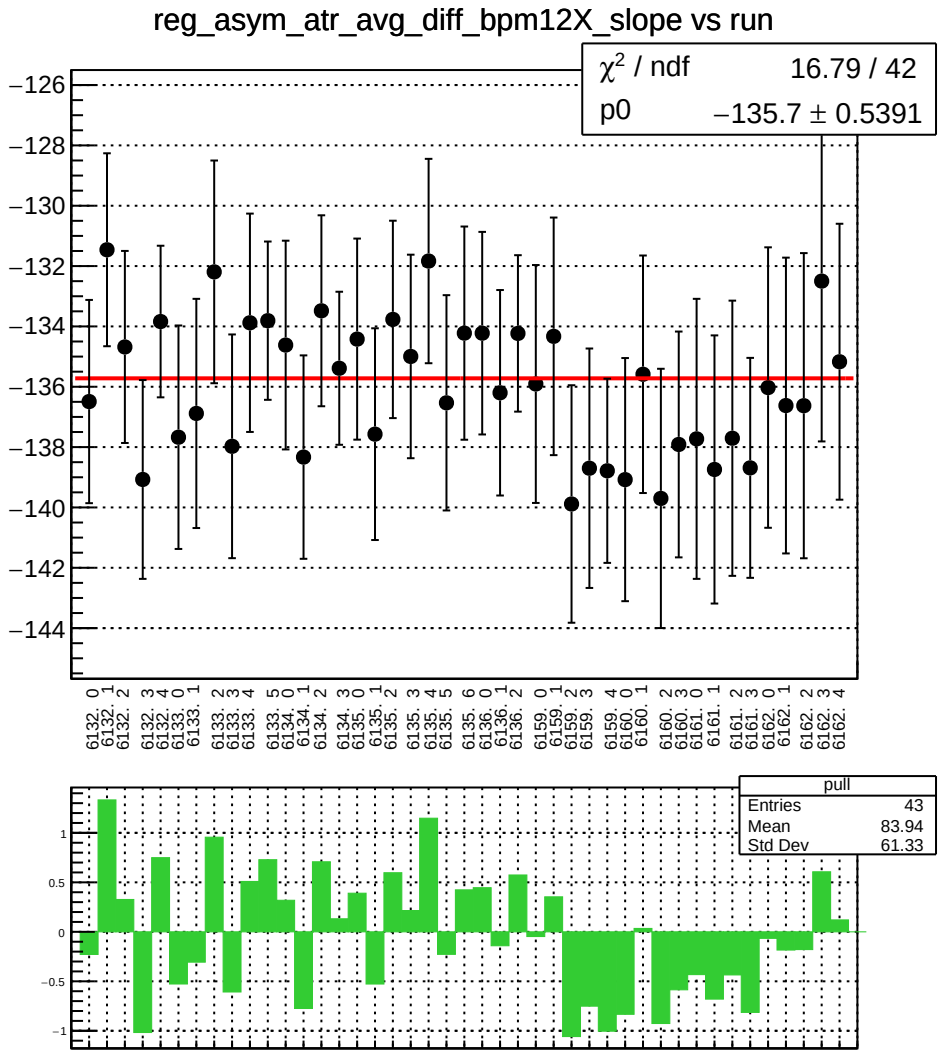

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 36.68 / 42
p0 −361.1± 10.44
−200
−250
−300
−350
−400
−450
−500
−550
−600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 111.3
Std Dev 88.51
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.0894
Std Dev 0.9193
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

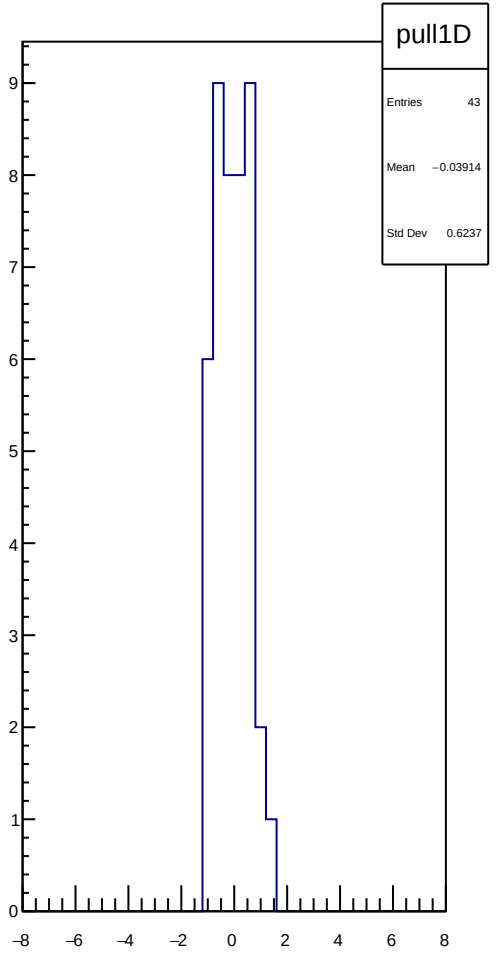

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.398 / 42
p0 −12.21± 6.936
80
60
40
20
0
−20
−40
−60
−80
−100
−120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 128.6
Std Dev 103.7
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean −0.003977
Std Dev 0.2811
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

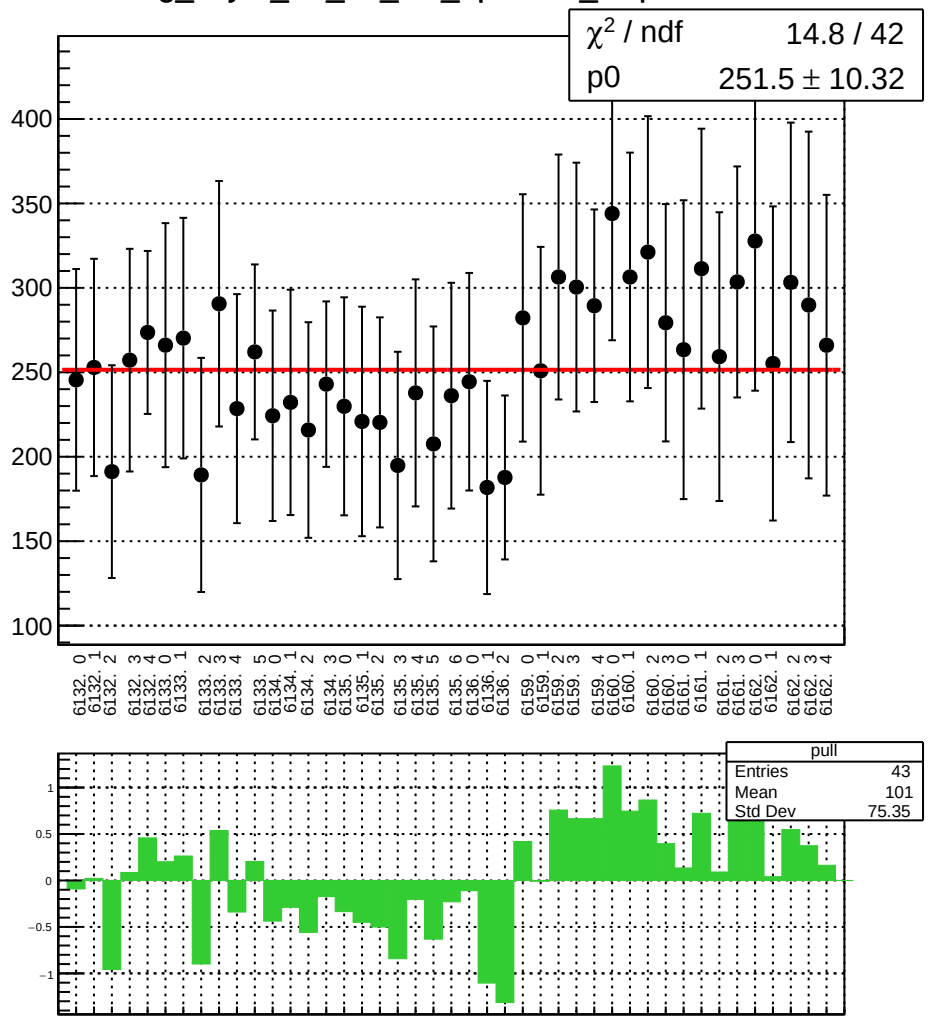

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 32.54 / 42
p0 472.4 ± 12.16
700
600
500
400
300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 108.4
Std Dev 85.6
1.5
1
0.5
0
−0.5
−1
−1.5

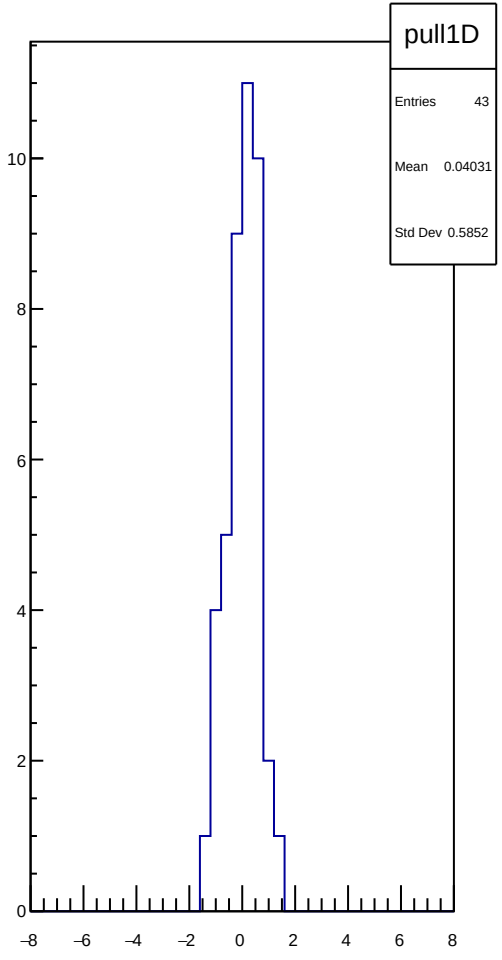

pull1D
Entries 43
Mean 0.08622
Std Dev 0.8656
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

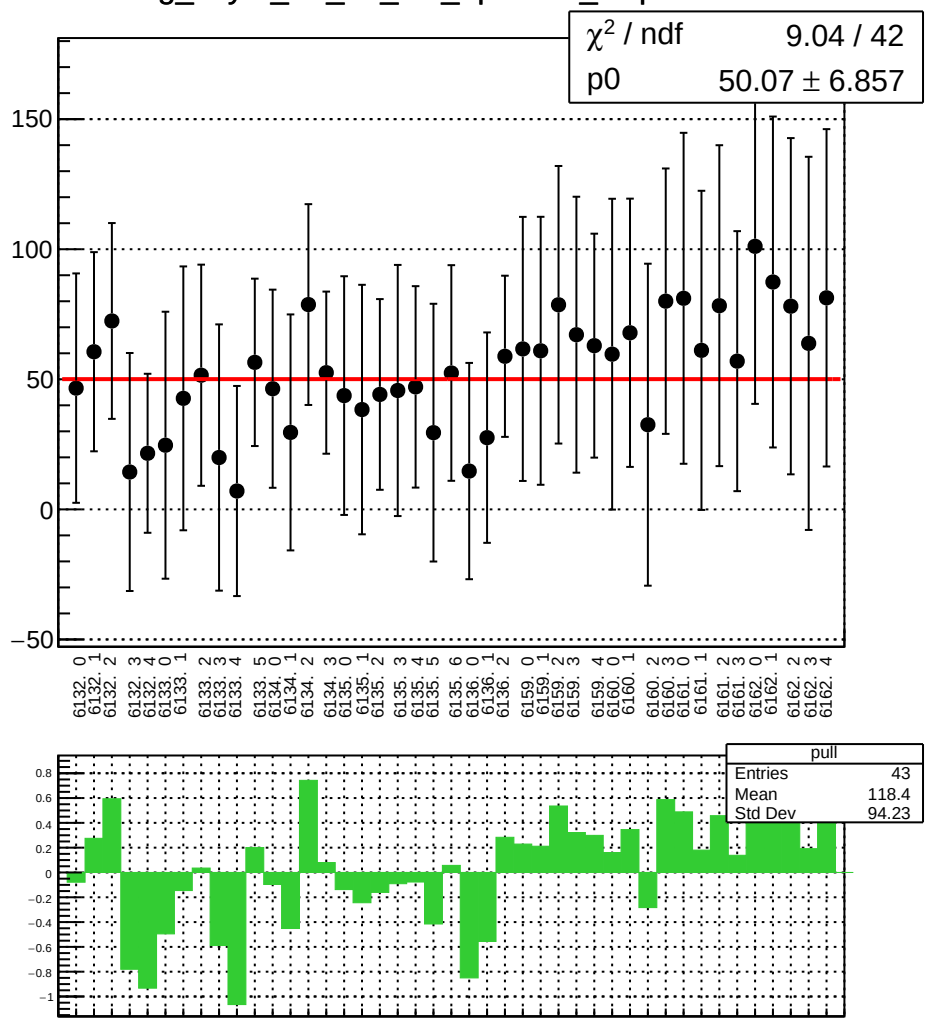

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.091 / 42
p0 88.25 ± 7.362
200
150
100
50
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 79.38
Std Dev 53.68
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 43
Mean 0.00859
Std Dev 0.268
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

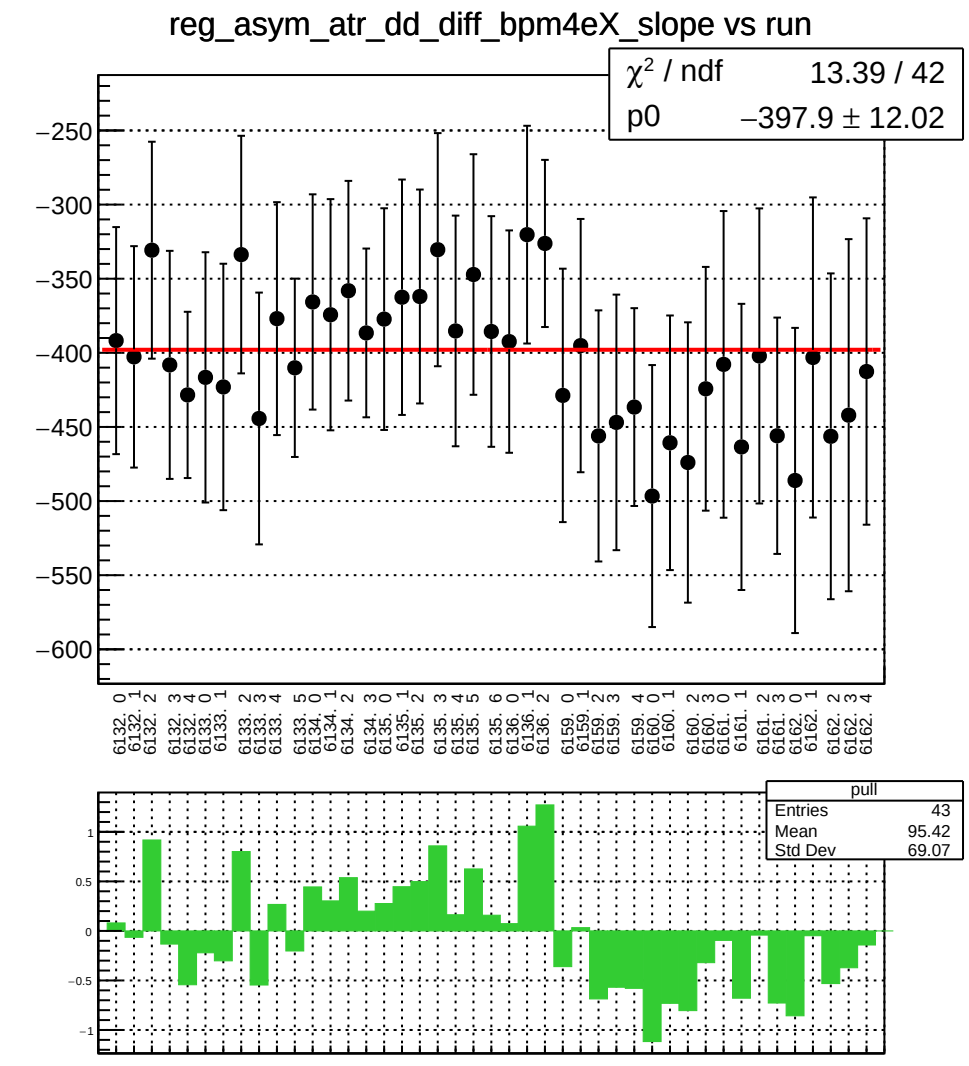

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 16.79 / 42
p0 −135.7 ± 0.5391
pull
Entries 43
Mean 83.94
Std Dev 61.33

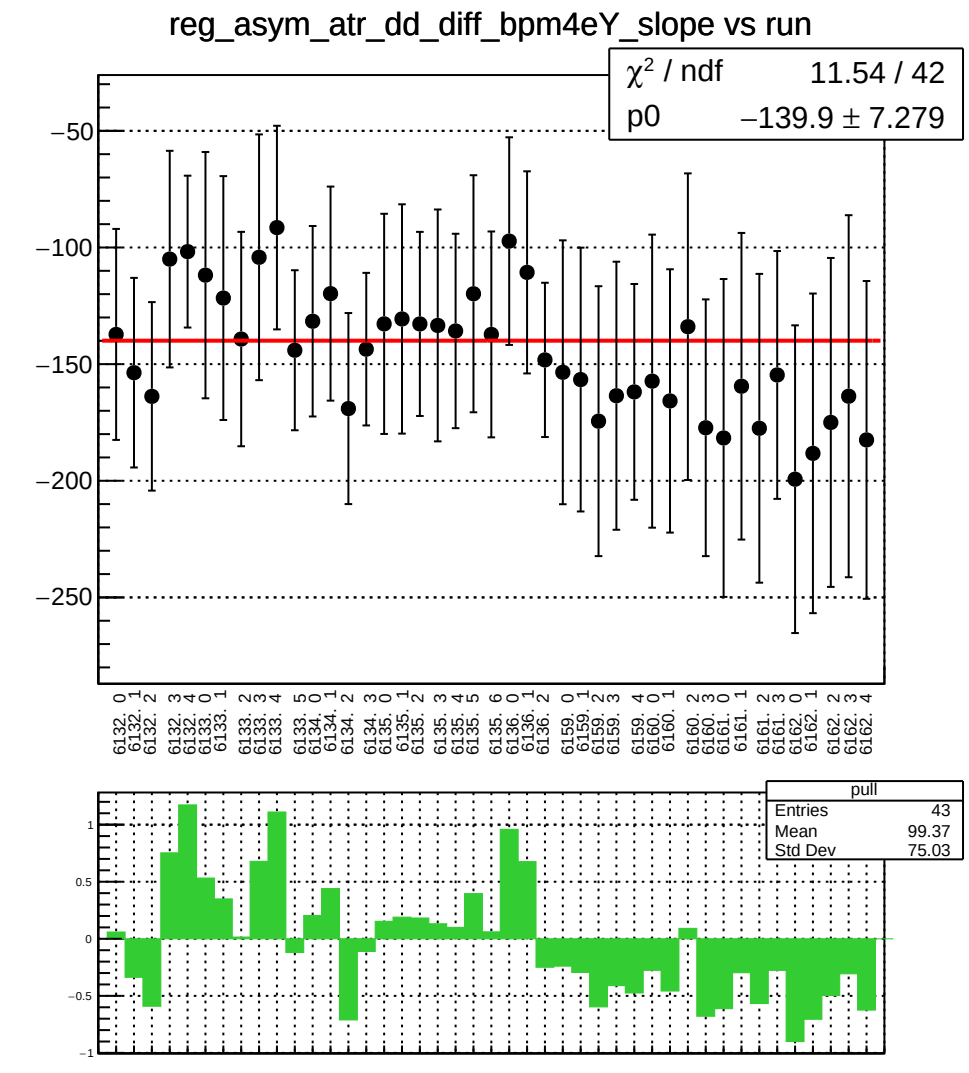

pull1D
Entries 43
Mean −0.03914
Std Dev 0.6237

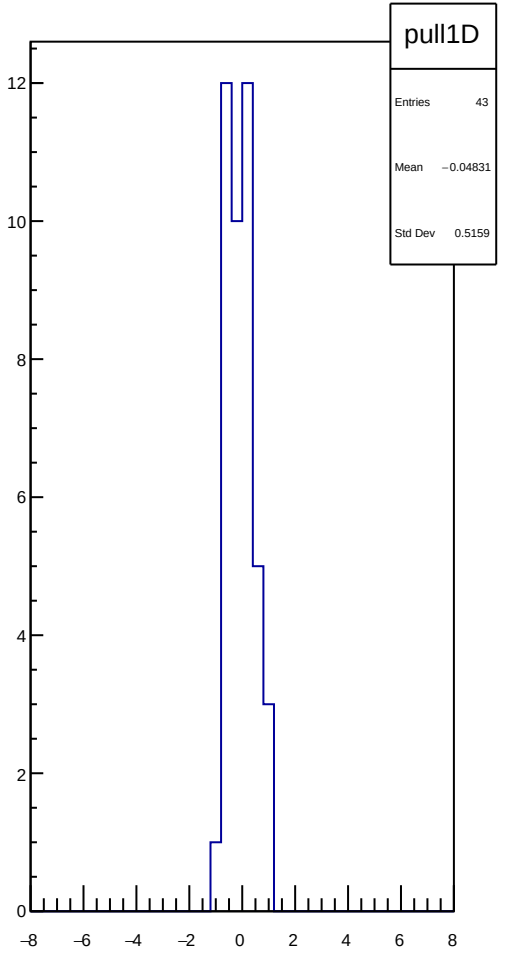

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 14.8 / 42
p0 251.5 ± 10.32
400
350
300
250
200
150
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 101
Std Dev 75.35
1
0.5
0
−0.5
−1

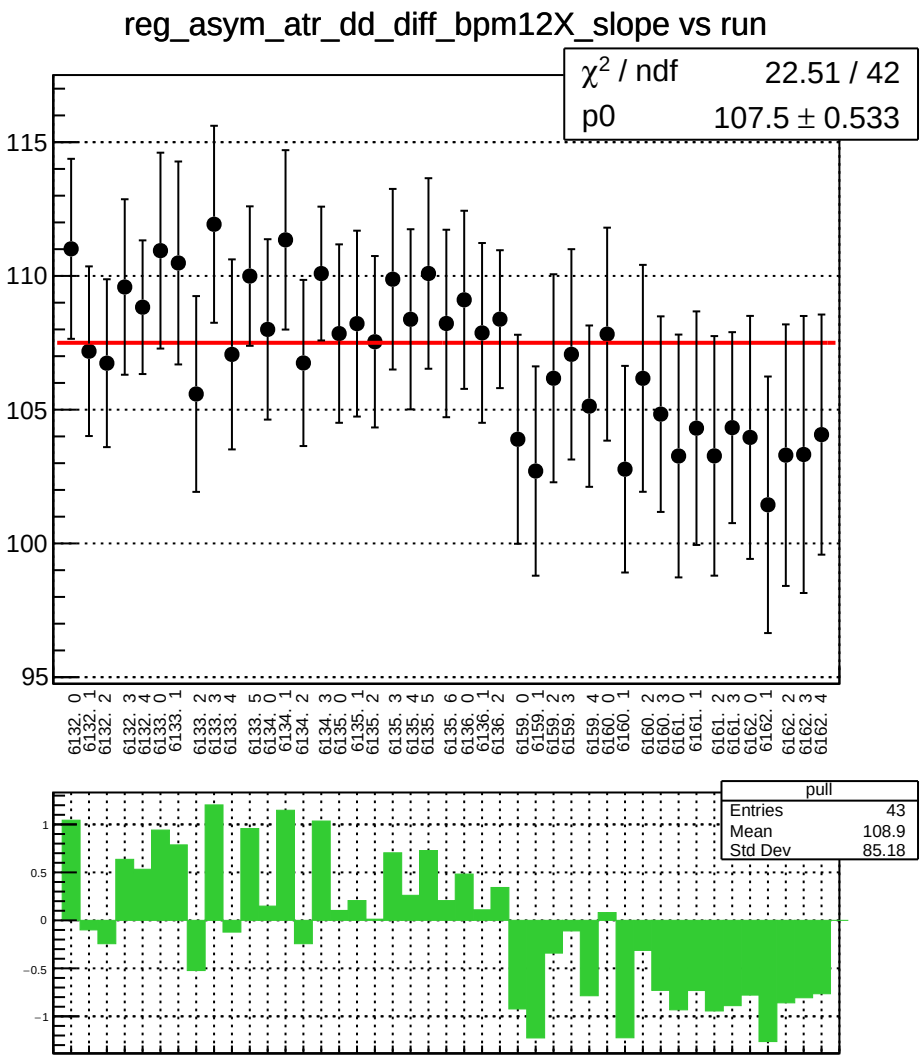

pull1D
Entries 43
Mean 0.04031
Std Dev 0.5852
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

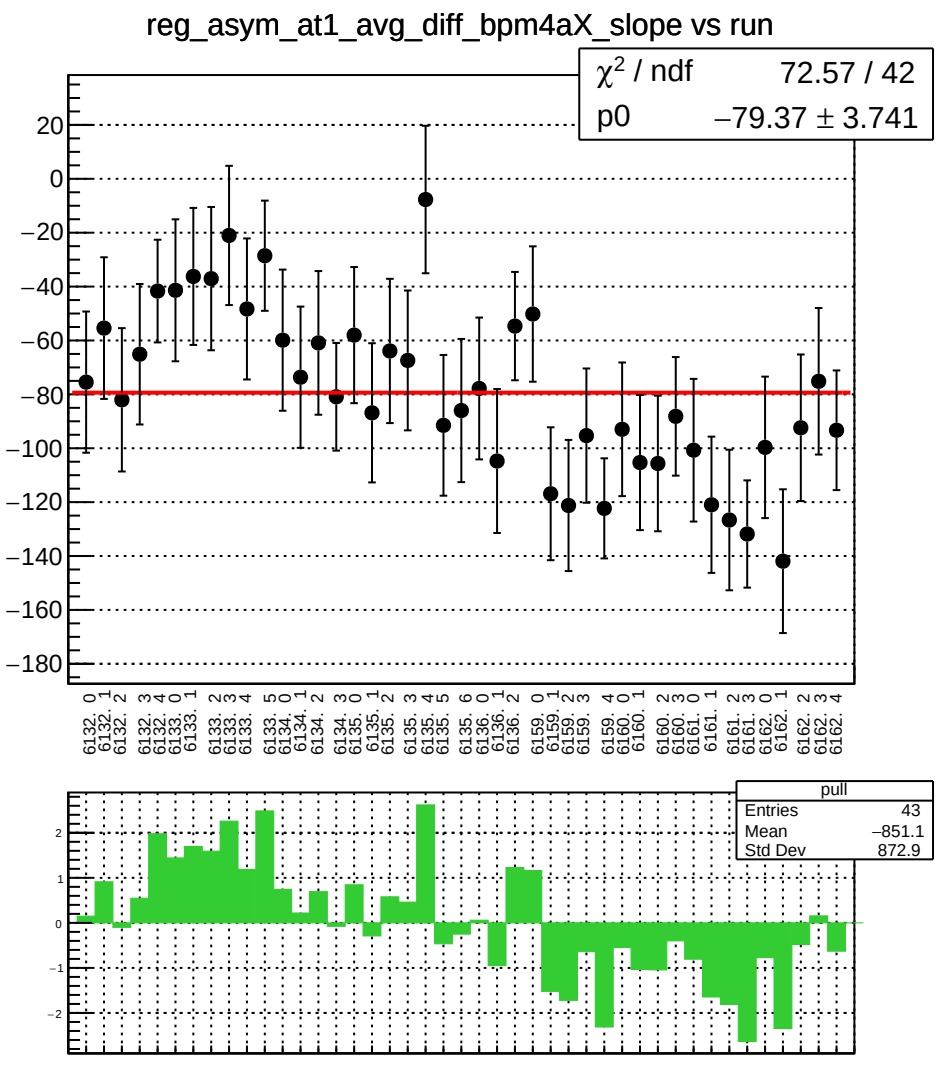

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.04 / 42
p0 50.07 ± 6.857
150
100
50
0
−50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 118.4
Std Dev 94.23
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 43
Mean 0.03054
Std Dev 0.4575
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

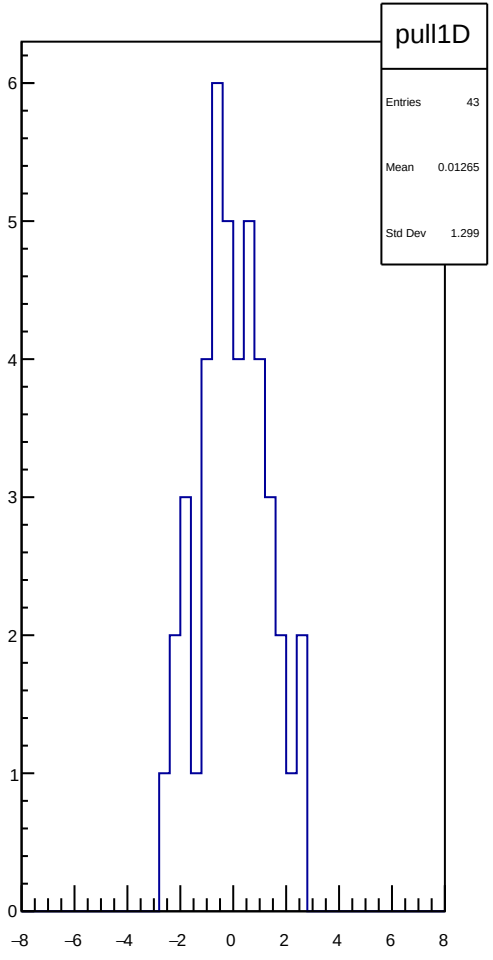

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.39 / 42
p0 −397.9 ± 12.02
−250
−300
−350
−400
−450
−500
−550
−600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 95.42
Std Dev 69.07
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.03856
Std Dev 0.5567
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

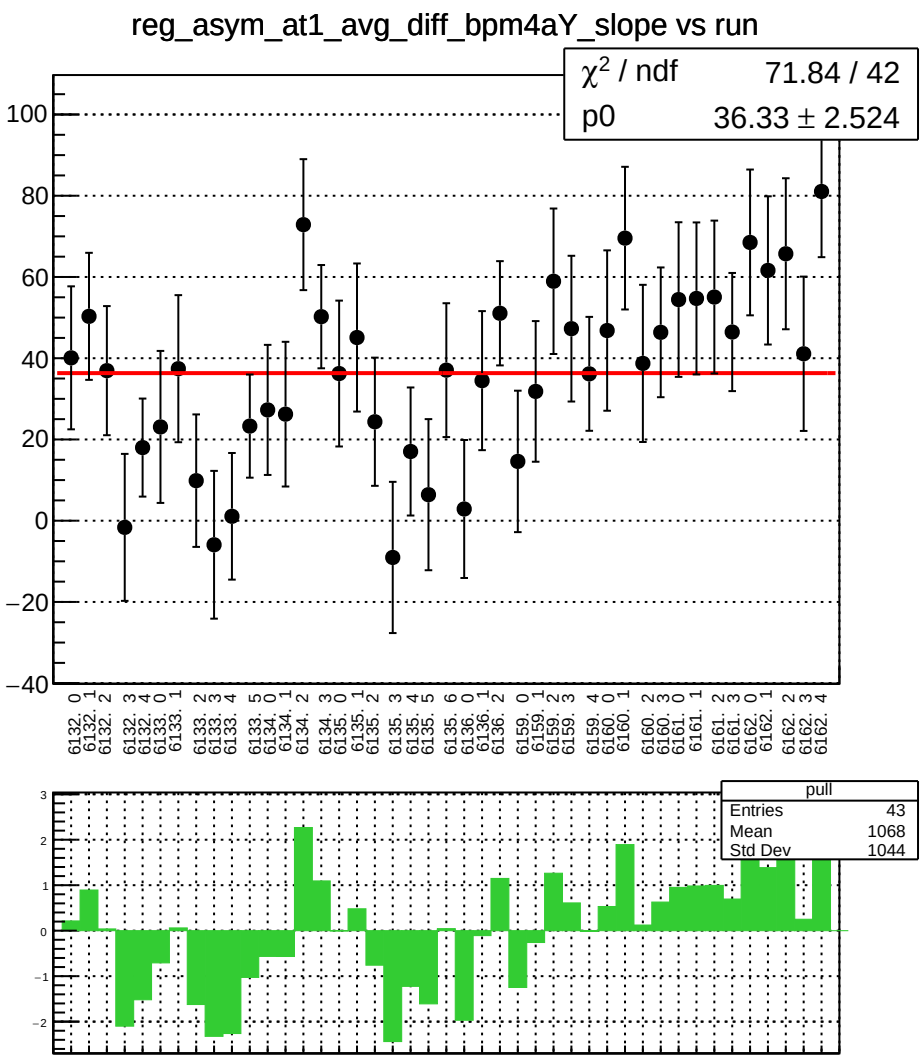

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.54 / 42
p0 −139.9 ± 7.279
−50
−100
−150
−200
−250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 99.37
Std Dev 75.03
1
0.5
0
−0.5
−1

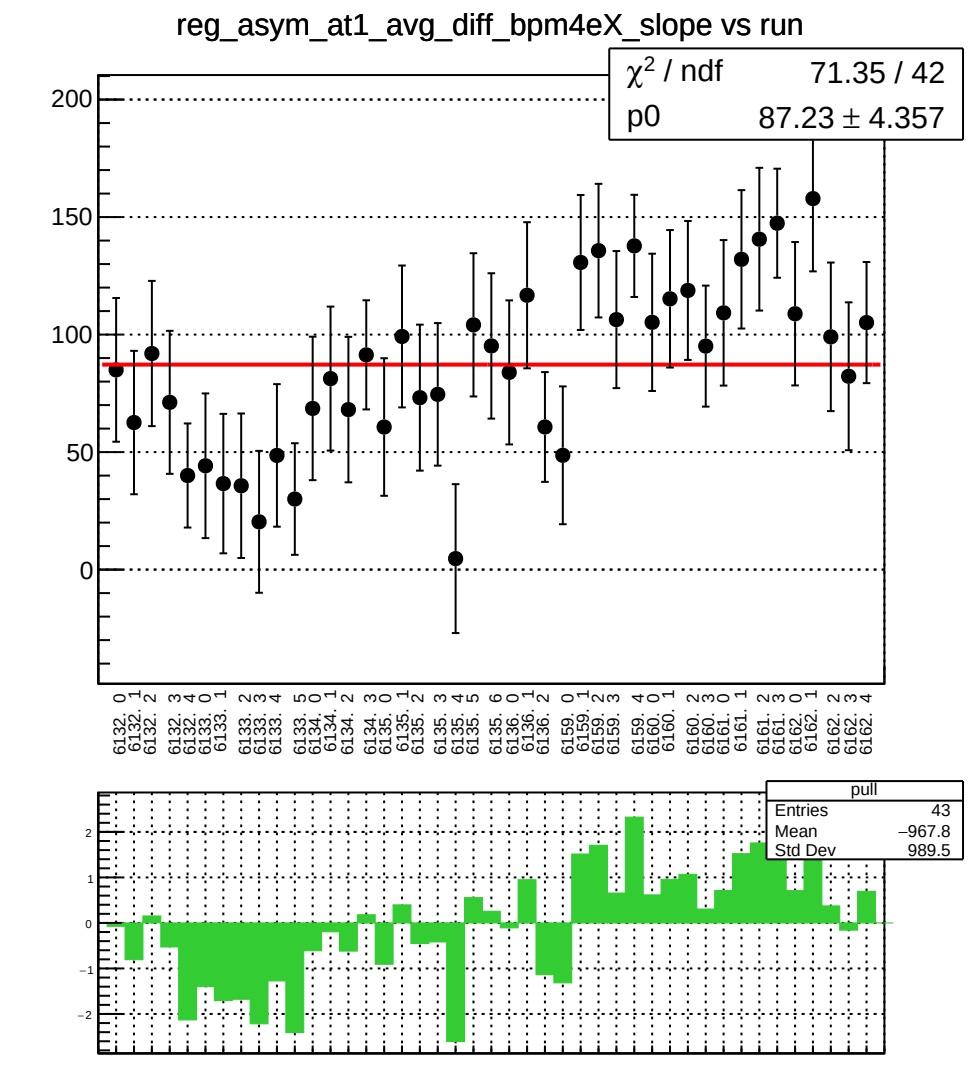

pull1D
Entries 43
Mean −0.04831
Std Dev 0.5159
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

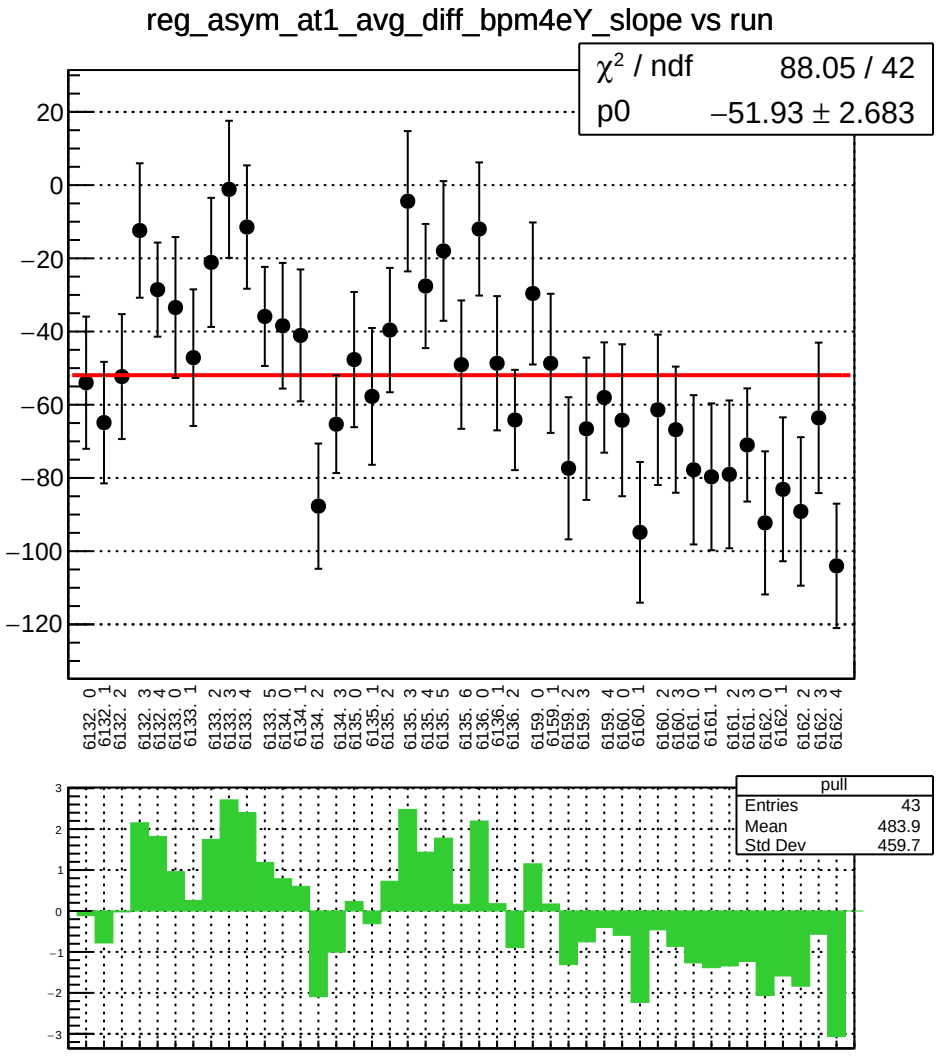

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 22.51 / 42
p0 107.5 ± 0.533
115
110
105
100
95
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 108.9
Std Dev 85.18
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.07402
Std Dev 0.7198
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

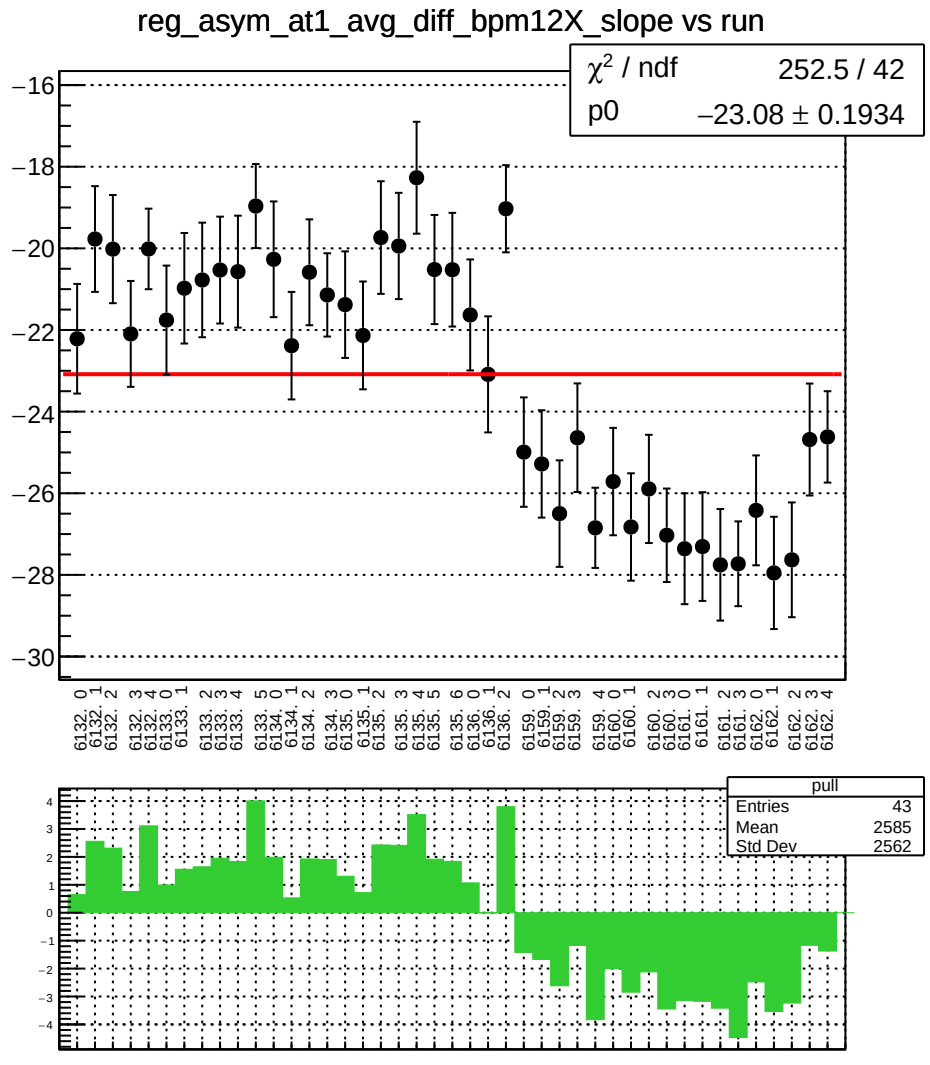

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 72.57 / 42
p0 −79.37 ± 3.741
20
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −851.1
Std Dev 872.9
2
1
0
−1
−2

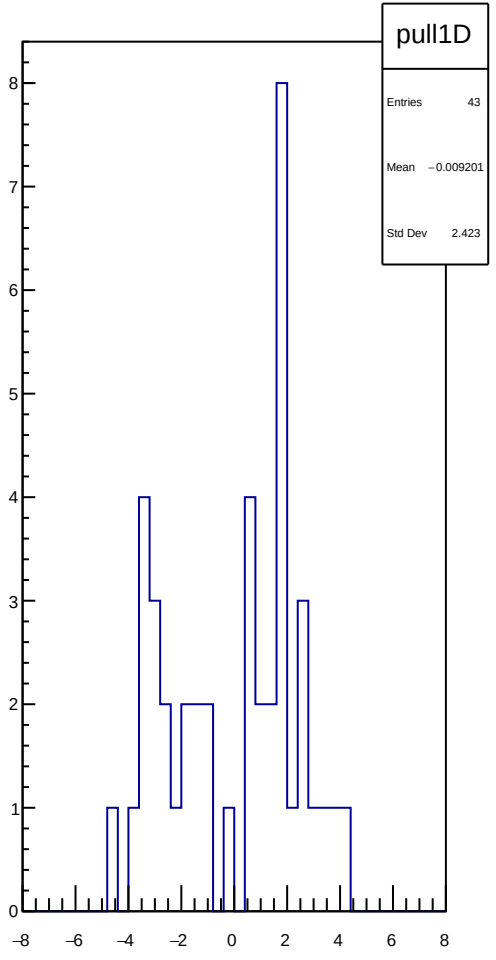

pull1D
Entries 43
Mean 0.01265
Std Dev 1.299
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

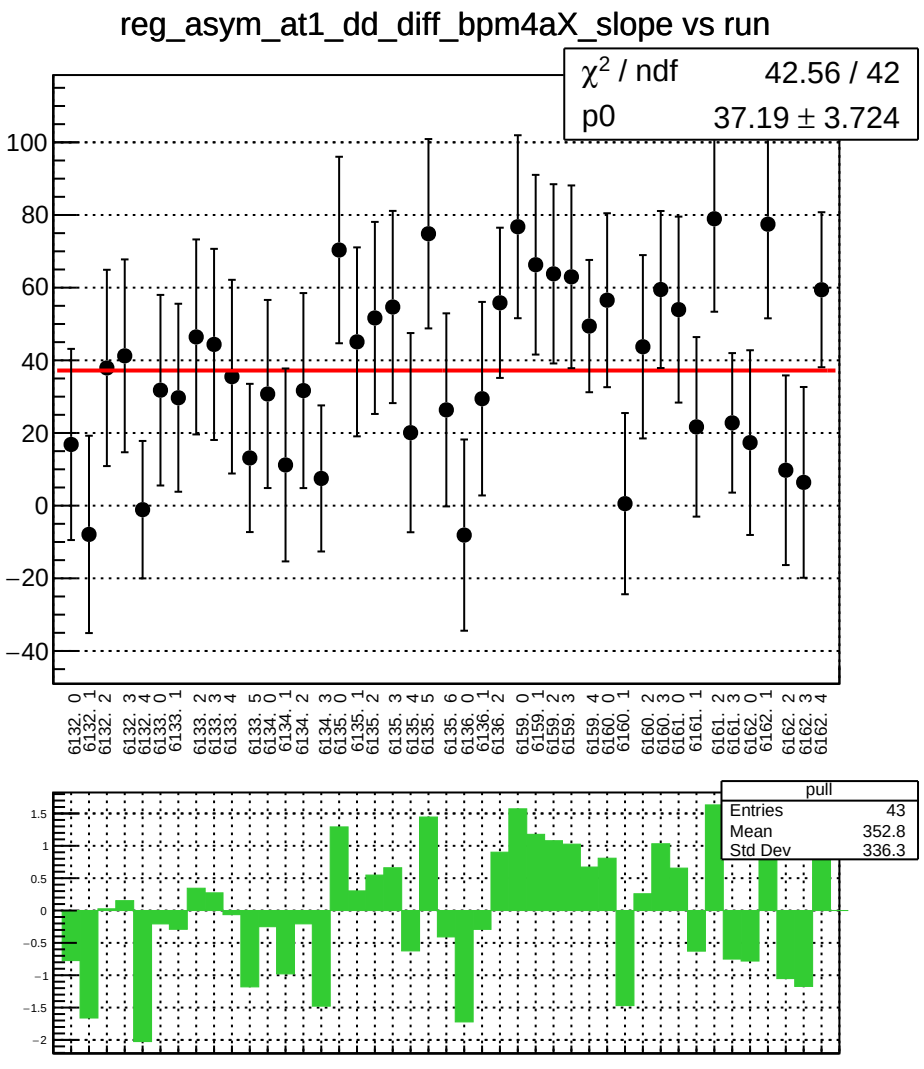

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 71.84 / 42
p0 36.33 ± 2.524
100
80
60
40
20
0
−20
−40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 1068
Std Dev 1044
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.008428
Std Dev 1.293
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

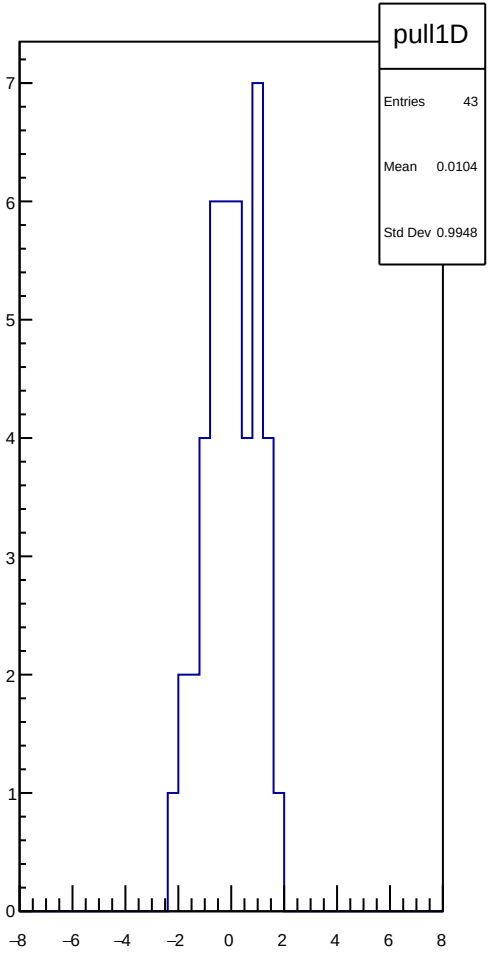

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 71.35 / 42
p0 87.23 ± 4.357
200
150
100
50
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −967.8
Std Dev 989.5
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01081
Std Dev 1.288
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

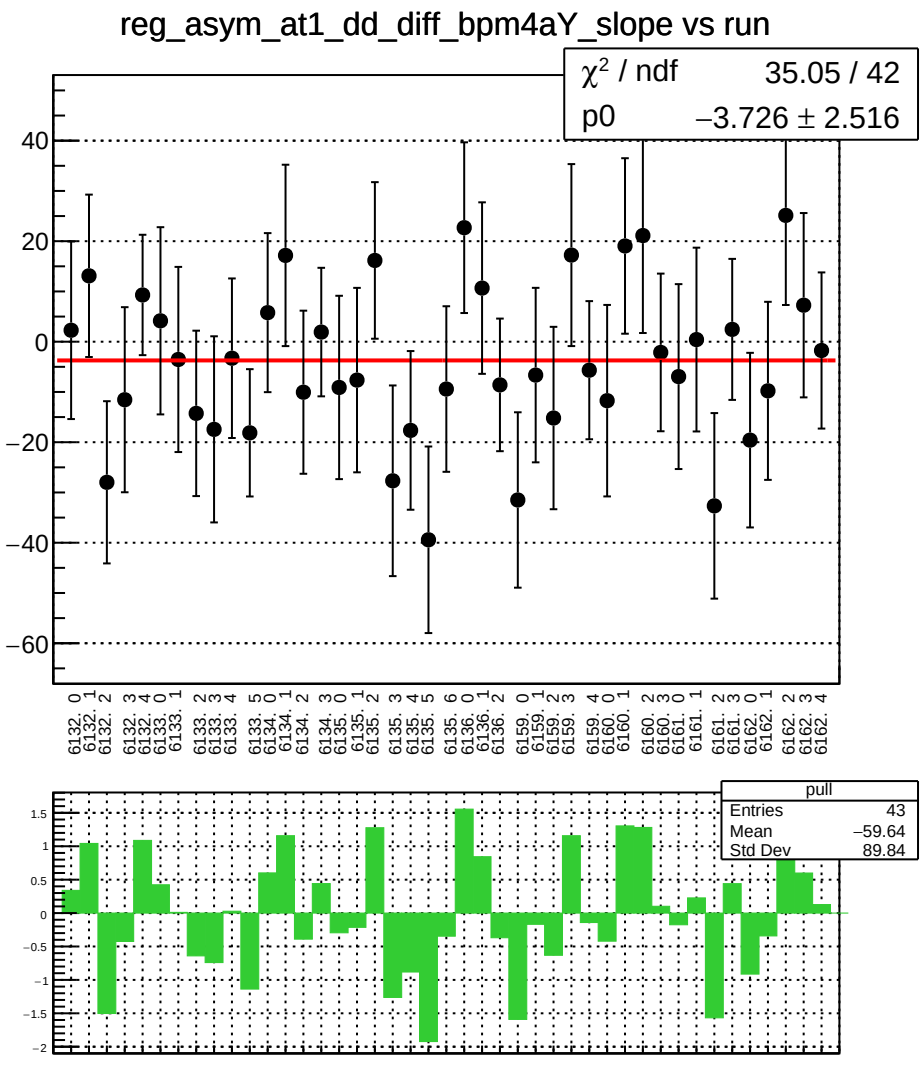

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 88.05 / 42
p0 −51.93 ± 2.683
20
0
−20
−40
−60
−80
−100
−120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 483.9
Std Dev 459.7
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.02417
Std Dev 1.431
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

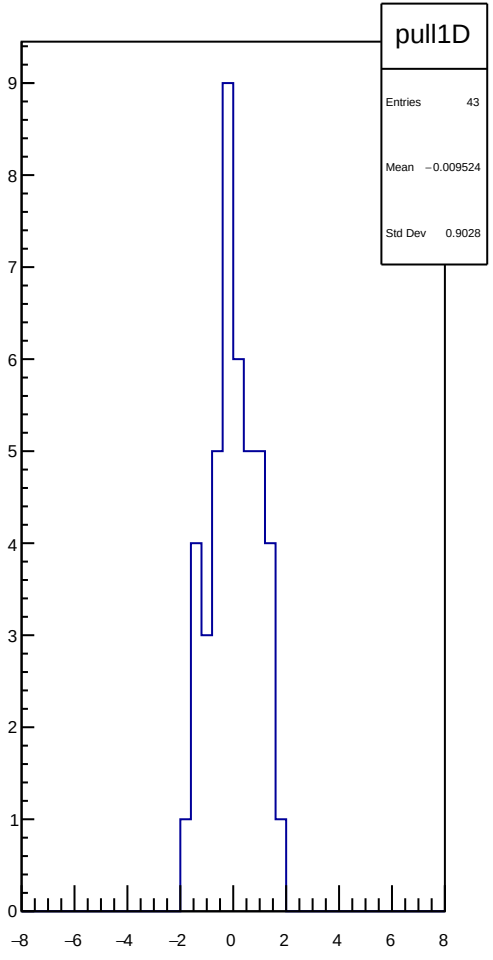

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 252.5 / 42
p0 −23.08 ± 0.1934
pull
Entries 43
Mean 2585
Std Dev 2562

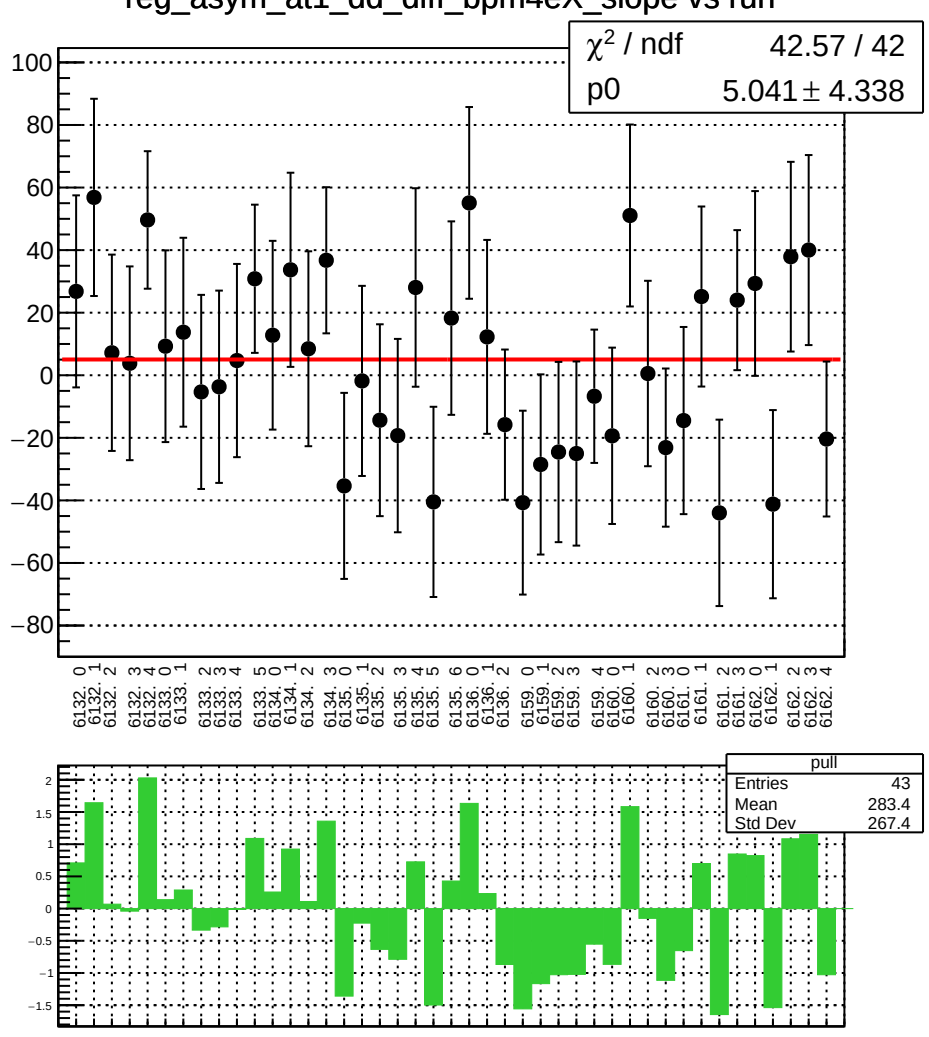

pull1D
Entries 43
Mean −0.009201
Std Dev 2.423

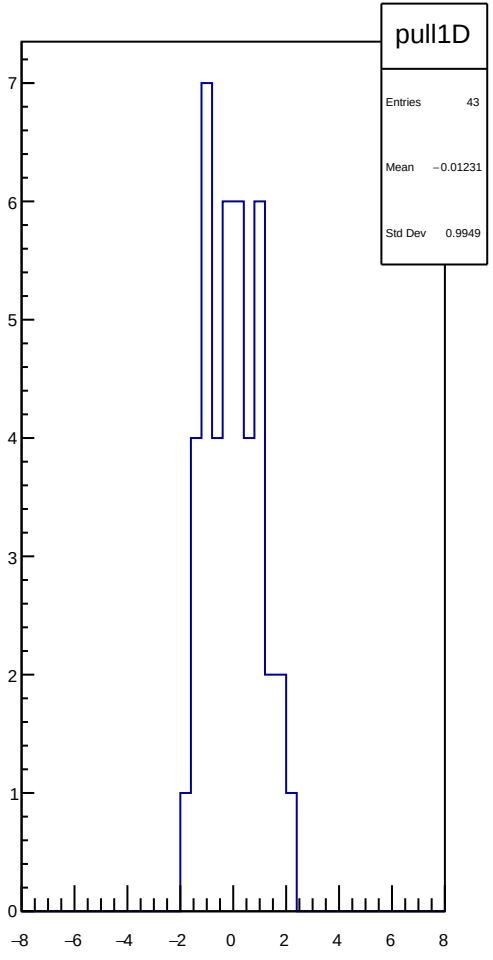

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 42.56 / 42
p0 37.19 ± 3.724
pull
Entries 43
Mean 352.8
Std Dev 336.3

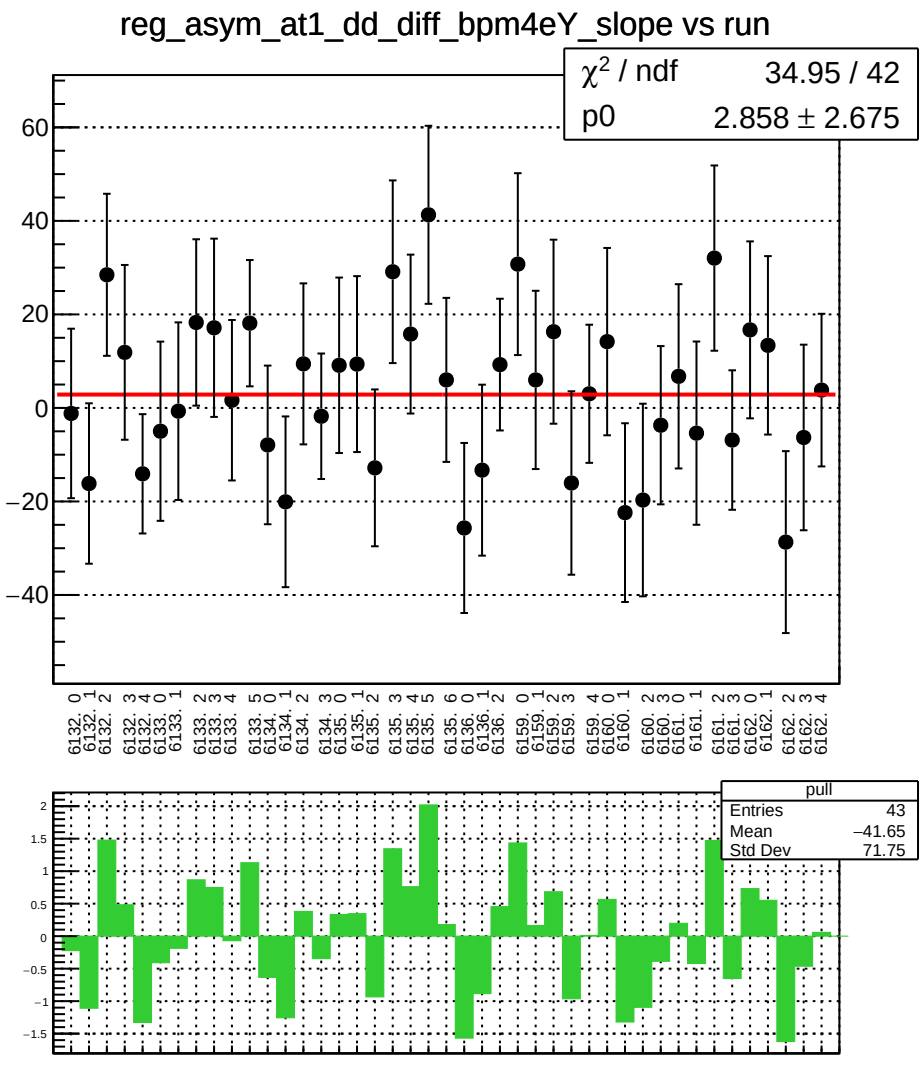

pull1D
Entries 43
Mean 0.0104
Std Dev 0.9948

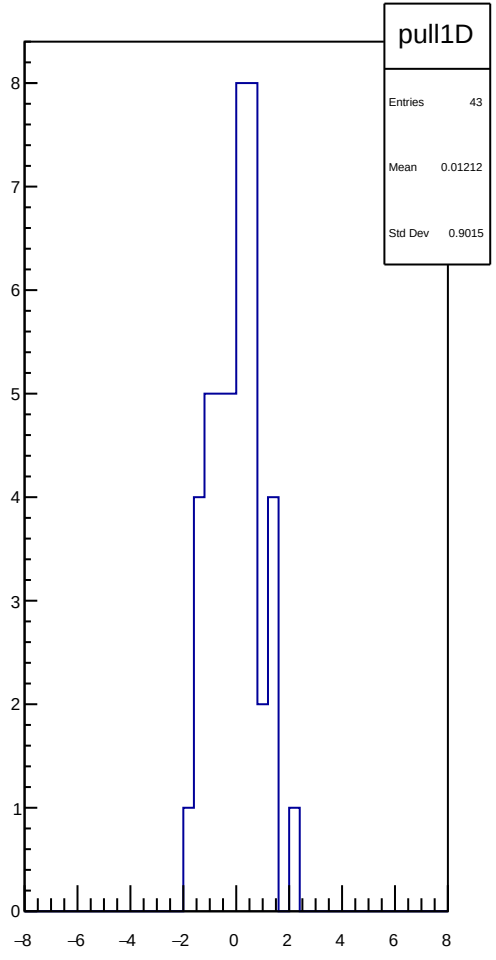

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 35.05 / 42
p0 −3.726 ± 2.516
40
20
0
−20
−40
−60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −59.64
Std Dev 89.84
1.5
1
0.5
0
−0.5
−1
−1.5
−2

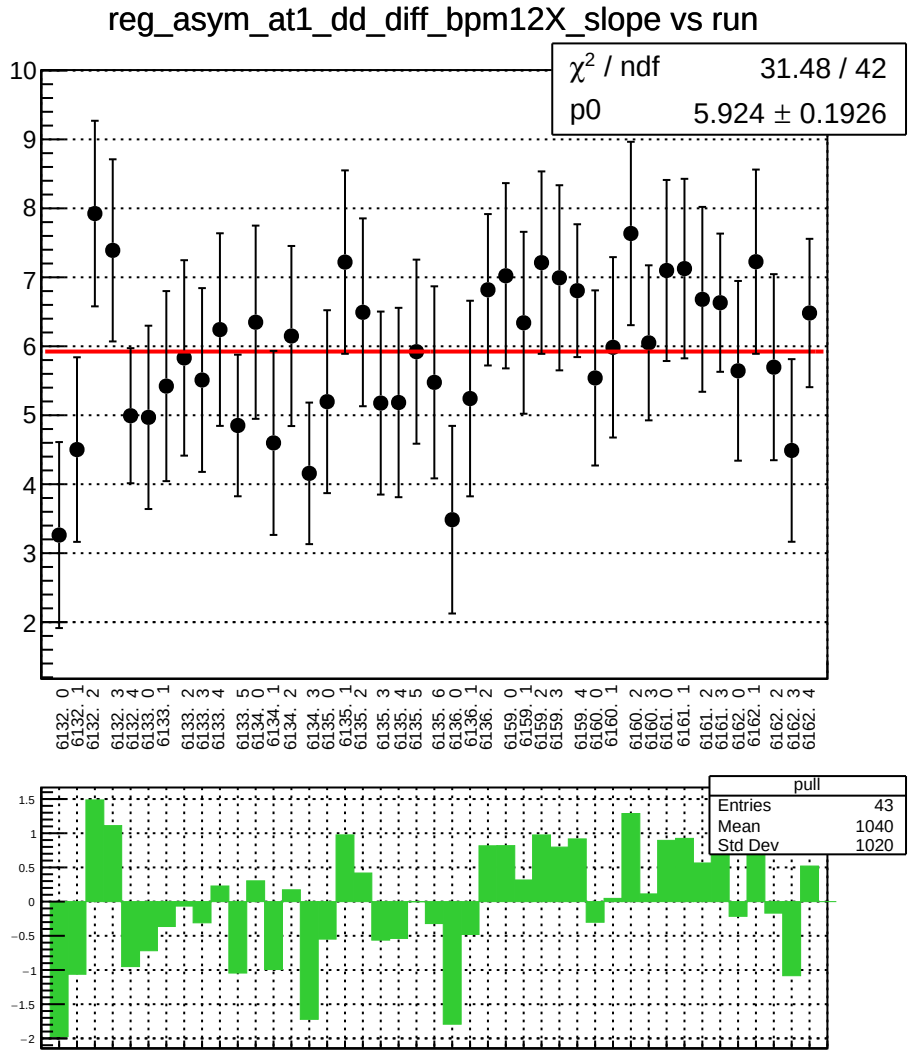

pull1D
Entries 43
Mean −0.009524
Std Dev 0.9028
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

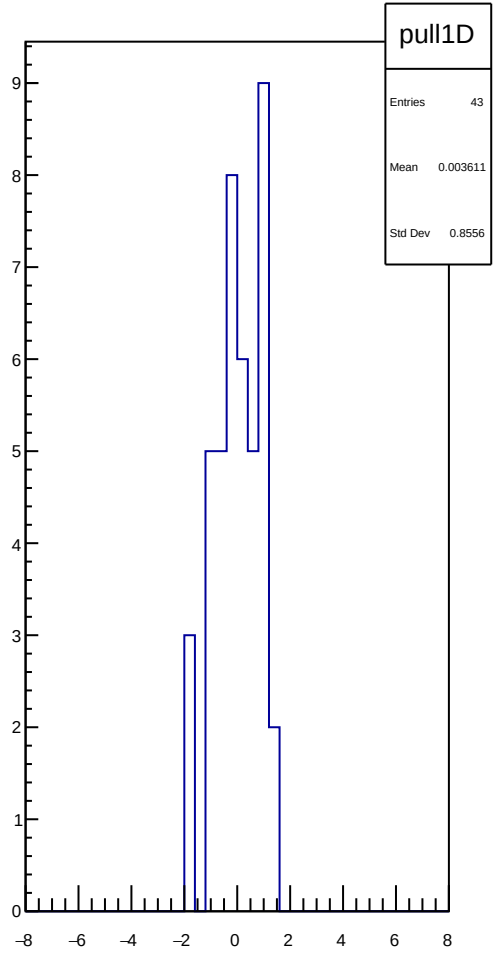

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.57 / 42
p0 5.041 ± 4.338
pull
Entries 43
Mean 283.4
Std Dev 267.4

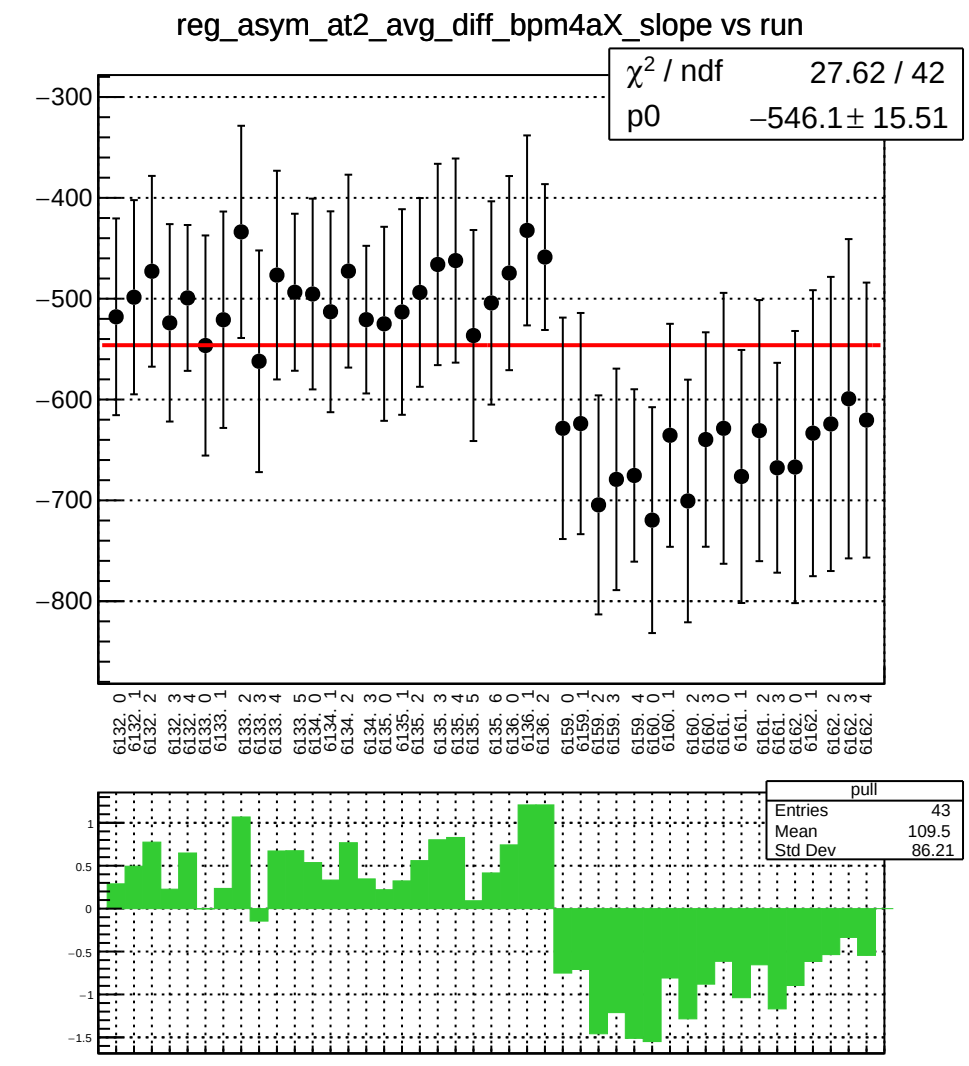

pull1D
Entries 43
Mean −0.01231
Std Dev 0.9949

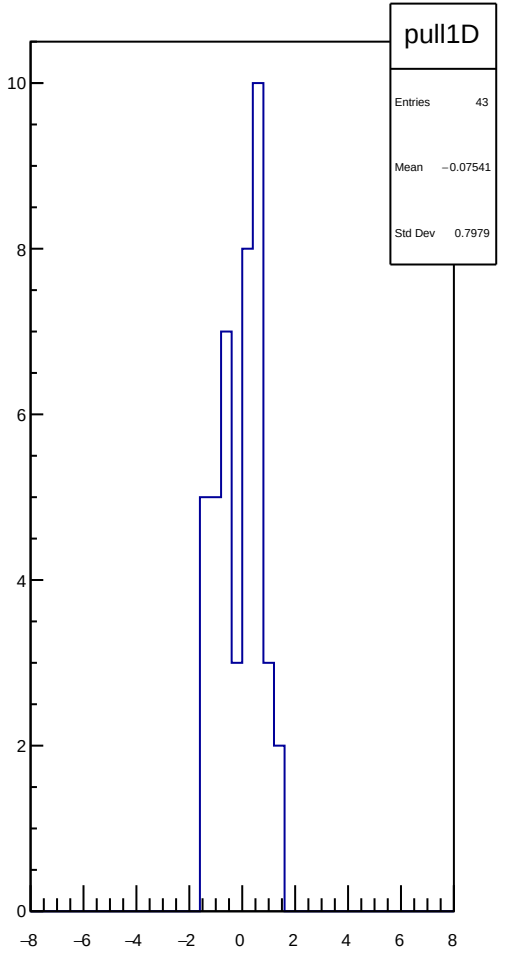

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.95 / 42
p0 2.858 ± 2.675
60
40
20
0
−20
−40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −41.65
Std Dev 71.75
2
1.5
1
0.5
0
−0.5
−1
−1.5

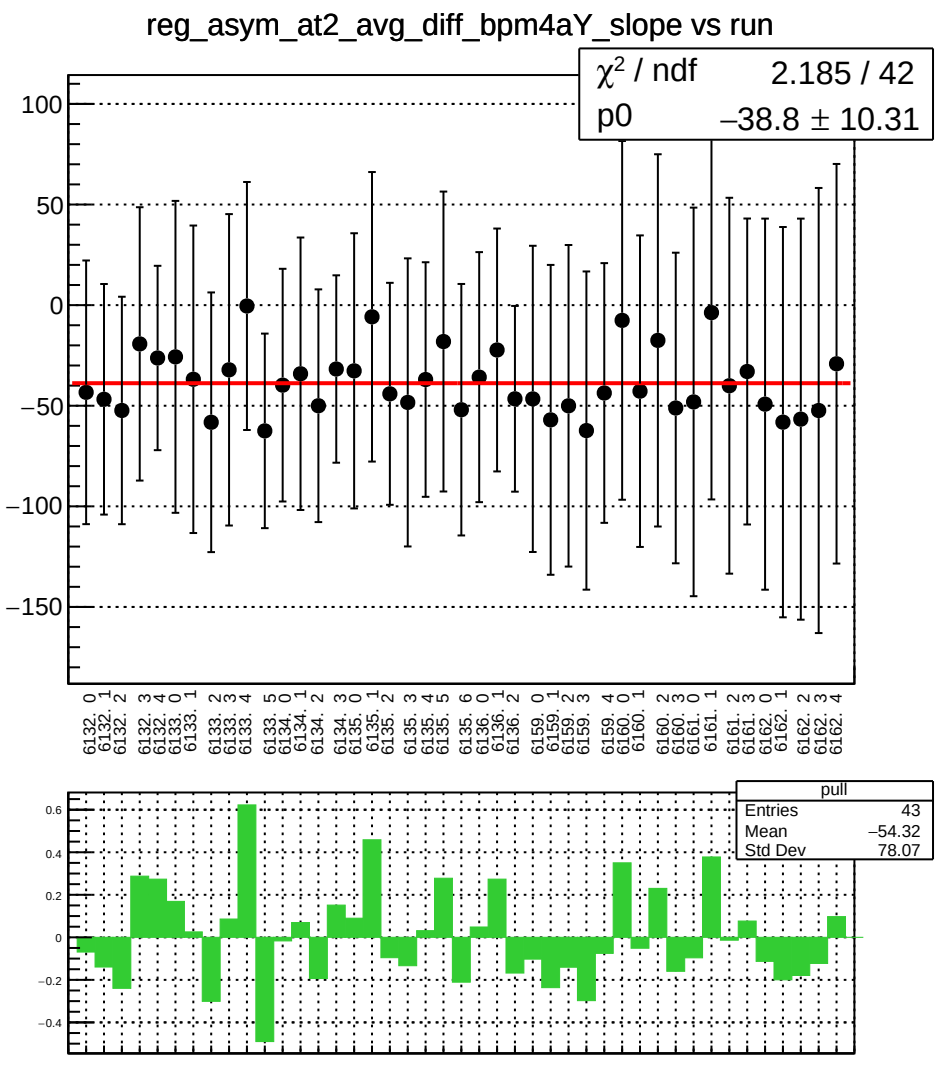

pull1D
Entries 43
Mean 0.01212
Std Dev 0.9015
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

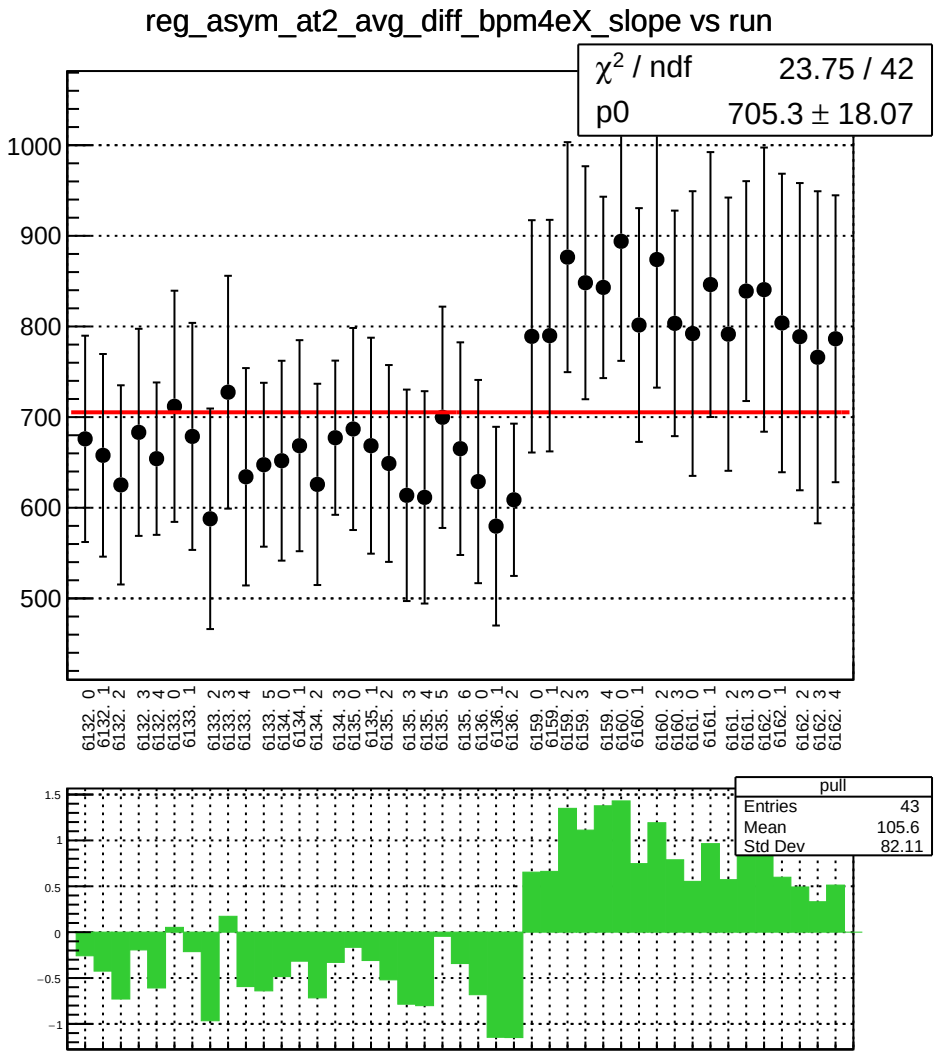

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 31.48 / 42
p0 5.924 ± 0.1926
pull
Entries 43
Mean 1040
Std Dev 1020

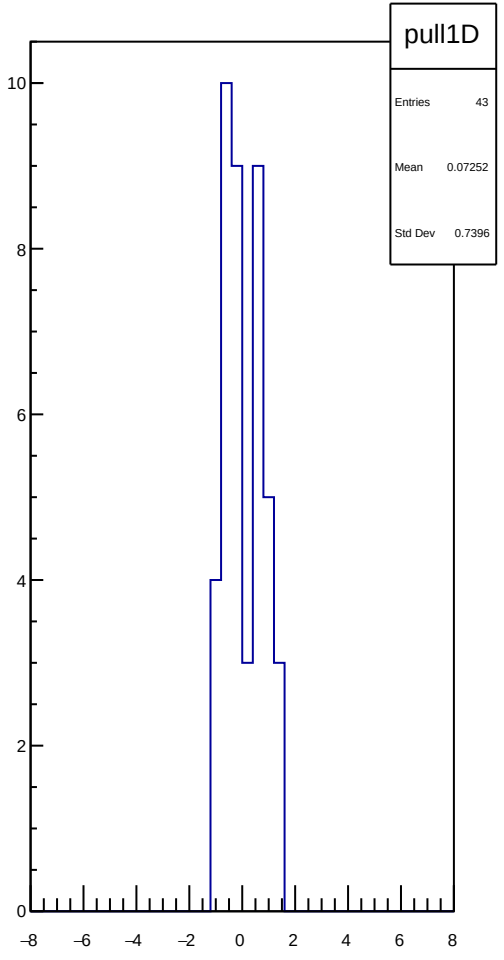

pull1D
Entries 43
Mean 0.003611
Std Dev 0.8556

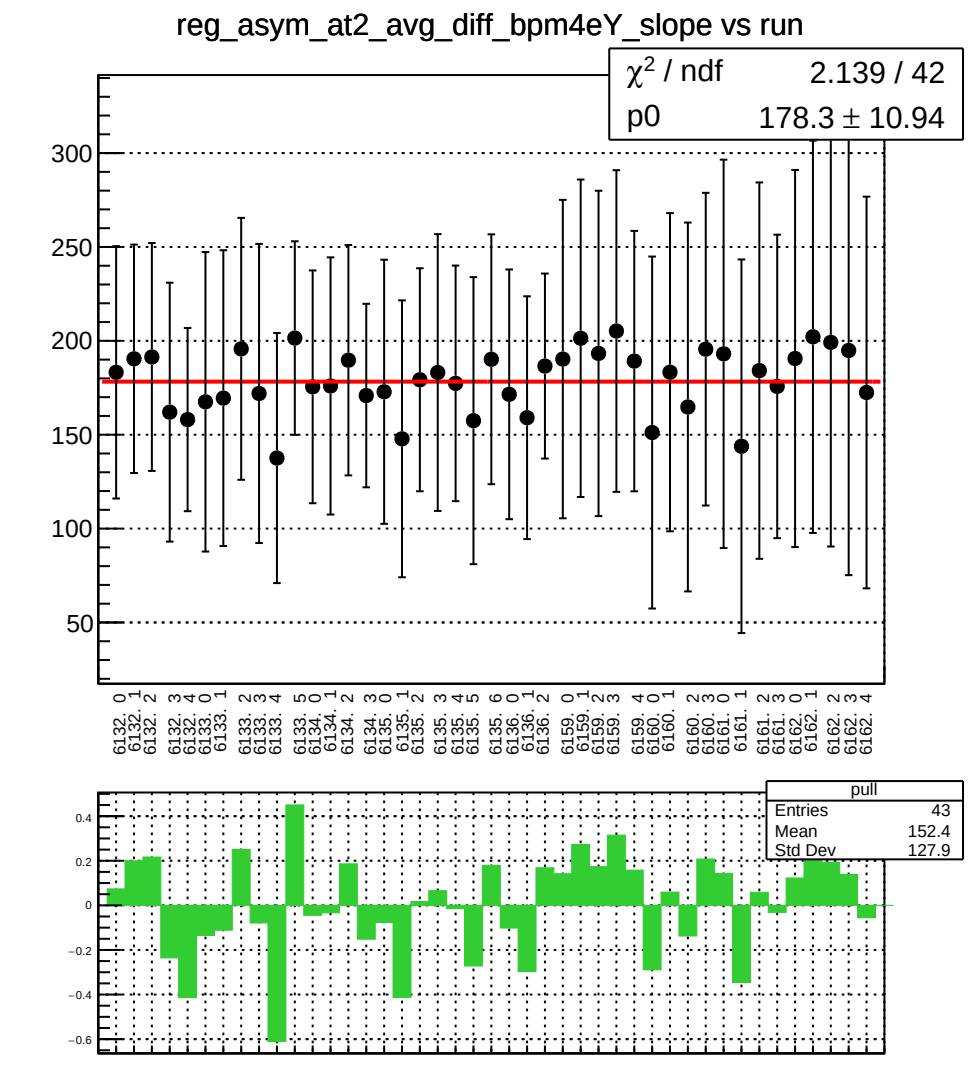

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 27.62 / 42
p0 −546.1 ± 15.51
−300
−400
−500
−600
−700
−800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 109.5
Std Dev 86.21
1
0.5
0
−0.5
−1
−1.5

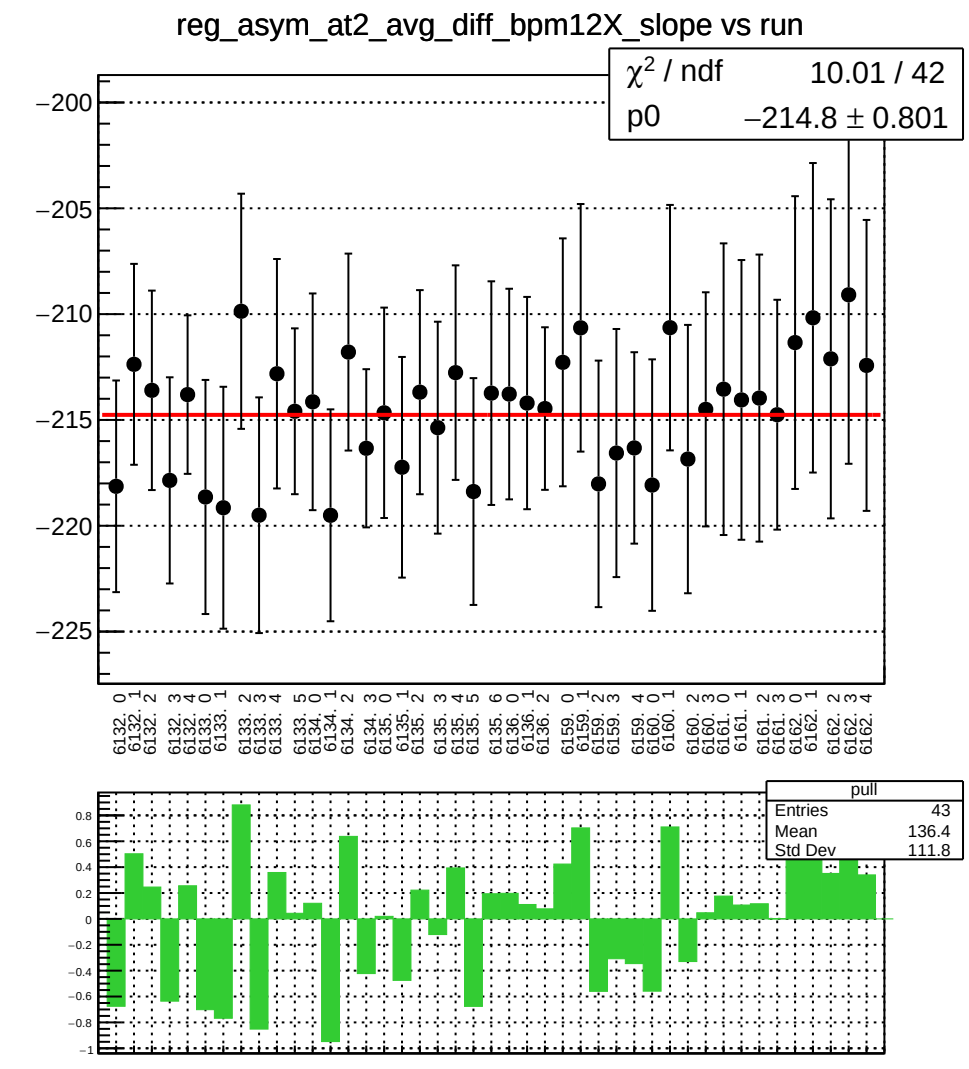

pull1D
Entries 43
Mean −0.07541
Std Dev 0.7979
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

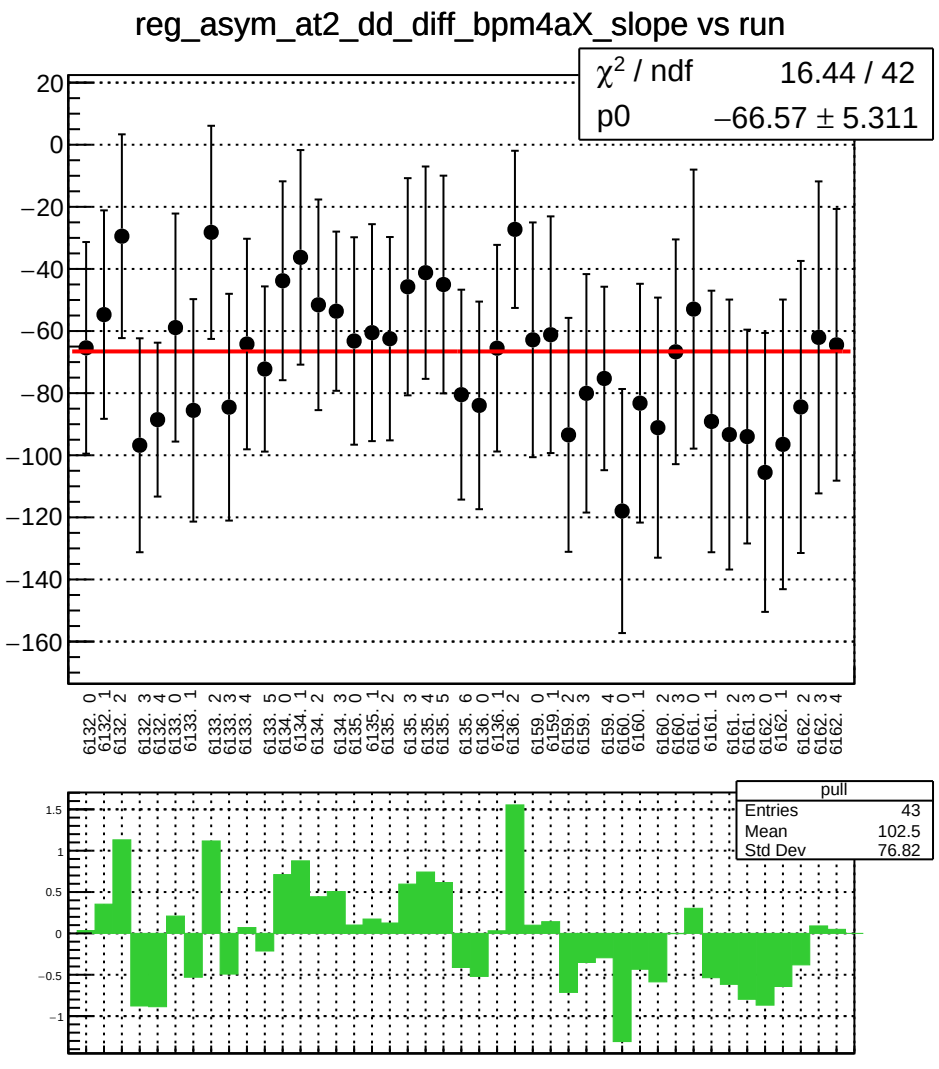

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.185 / 42
p0 –38.8 ± 10.31
100
50
0
–50
–100
–150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean –54.32
Std Dev 78.07
0.6
0.4
0.2
0
–0.2
–0.4
pull1D
Entries 43
Mean 0.003528
Std Dev 0.2254
24
22
20
18
16
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

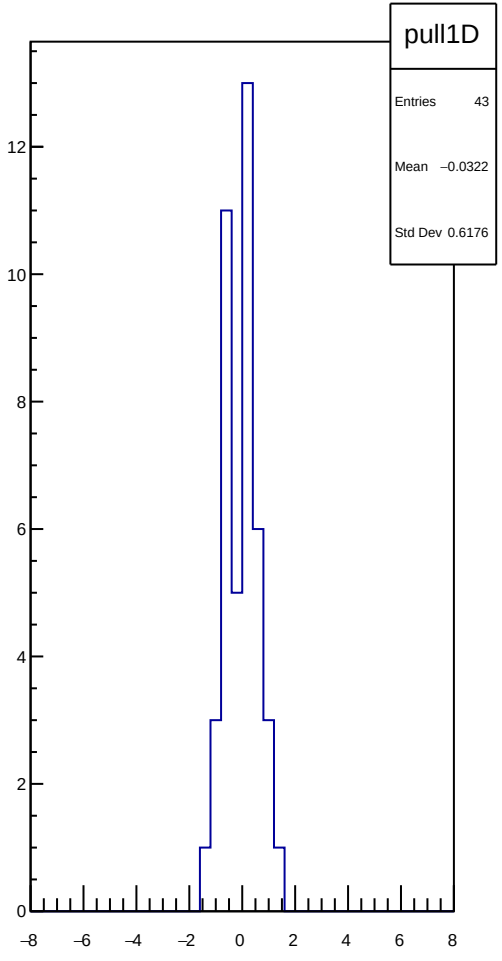

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.75 / 42
p0 705.3 ± 18.07
1000
900
800
700
600
500
6132. 0
6132. 1
6132. 2
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 105.6
Std Dev 82.11
1.5
1
0.5
0
−0.5
−1

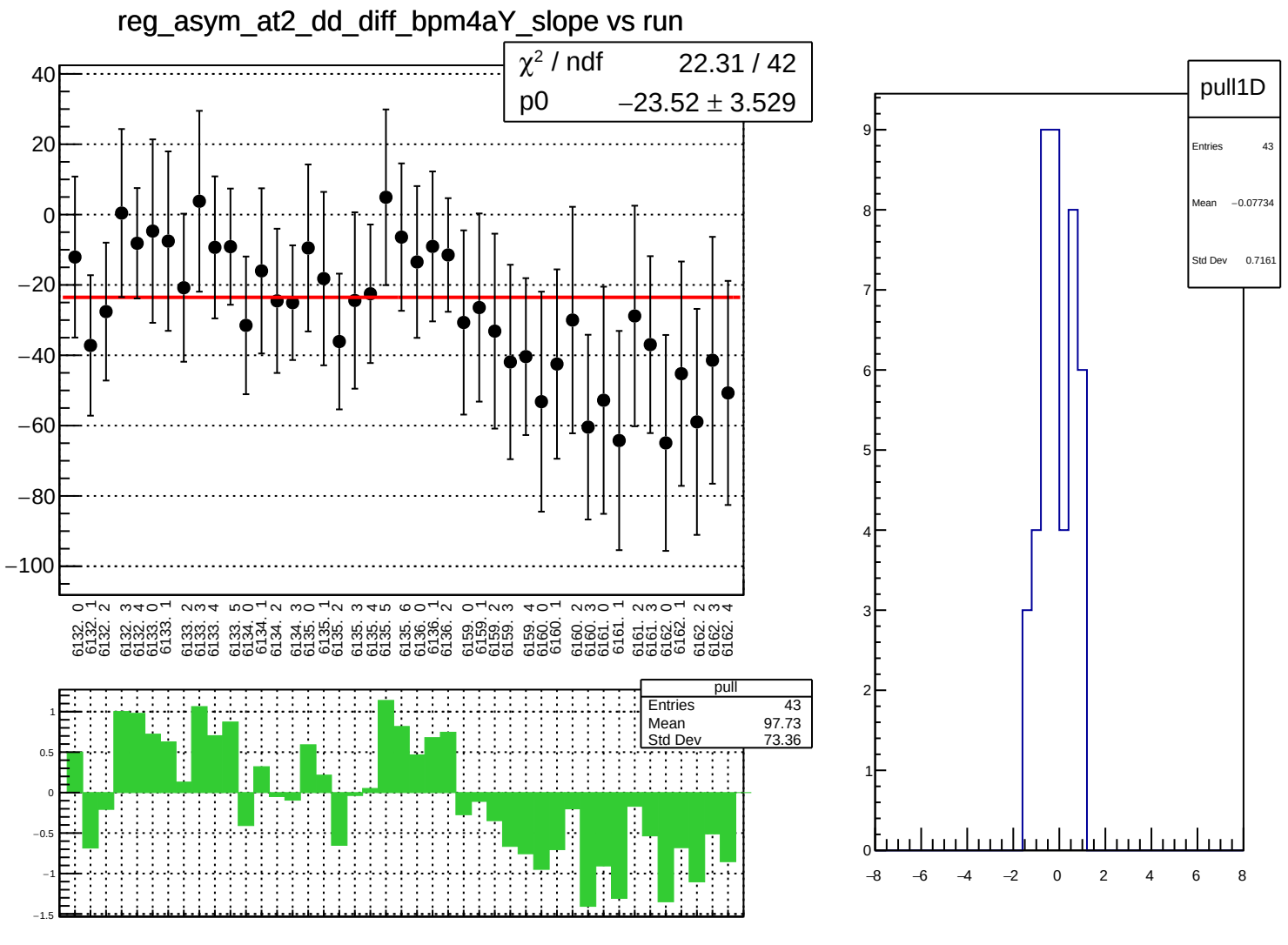

pull1D
Entries 43
Mean 0.07252
Std Dev 0.7396
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

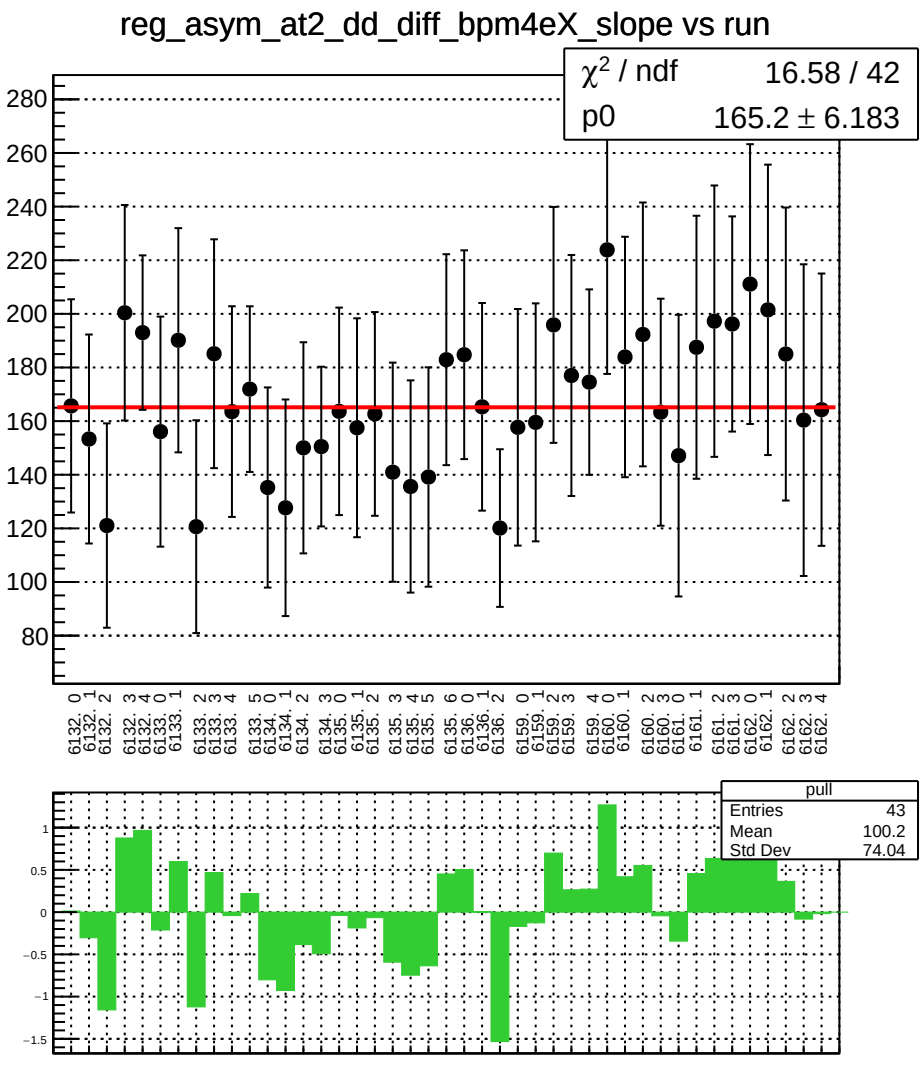

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.139 / 42
p0 178.3 ± 10.94
300
250
200
150
100
50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 152.4
Std Dev 127.9
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean 0.003963
Std Dev 0.223
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

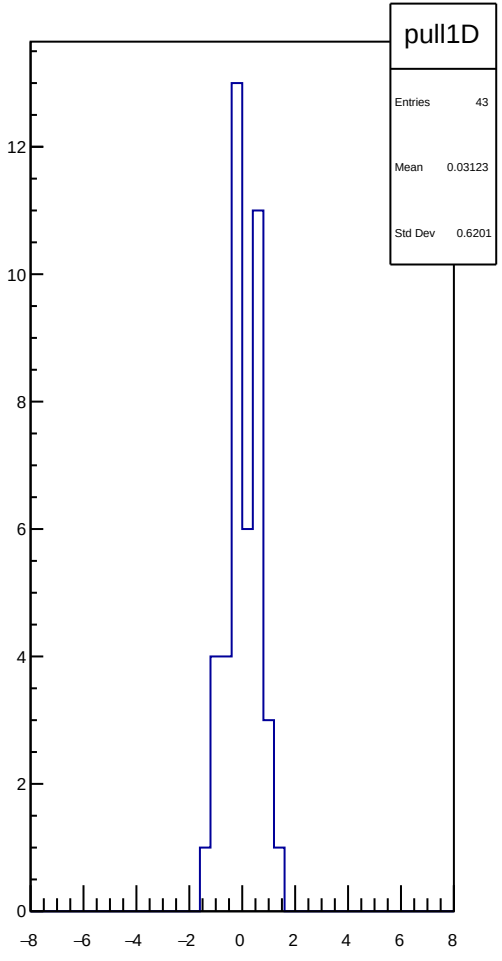

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 10.01 / 42
p0 −214.8 ± 0.801
−200
−205
−210
−215
−220
−225
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 136.4
Std Dev 111.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 43
Mean 0.01618
Std Dev 0.4823
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

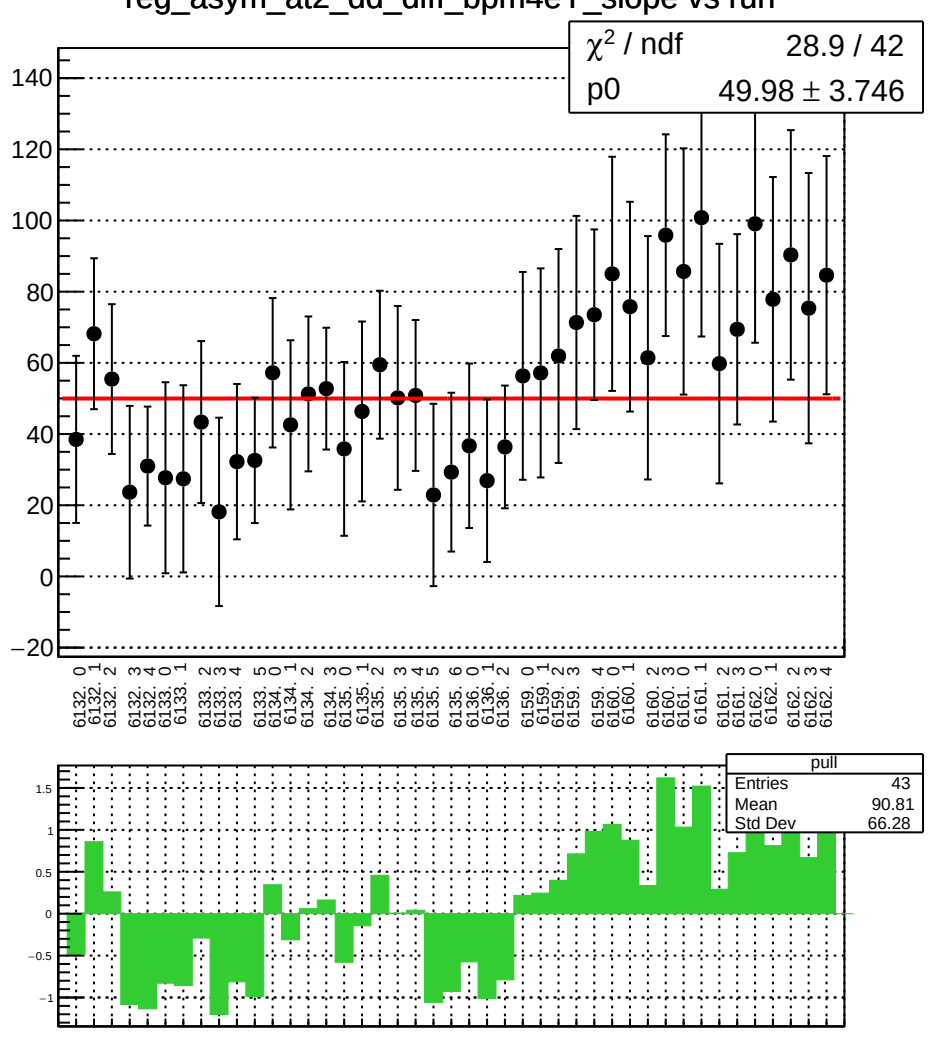

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 16.44 / 42
p0 −66.57 ± 5.311
pull
Entries 43
Mean 102.5
Std Dev 76.82

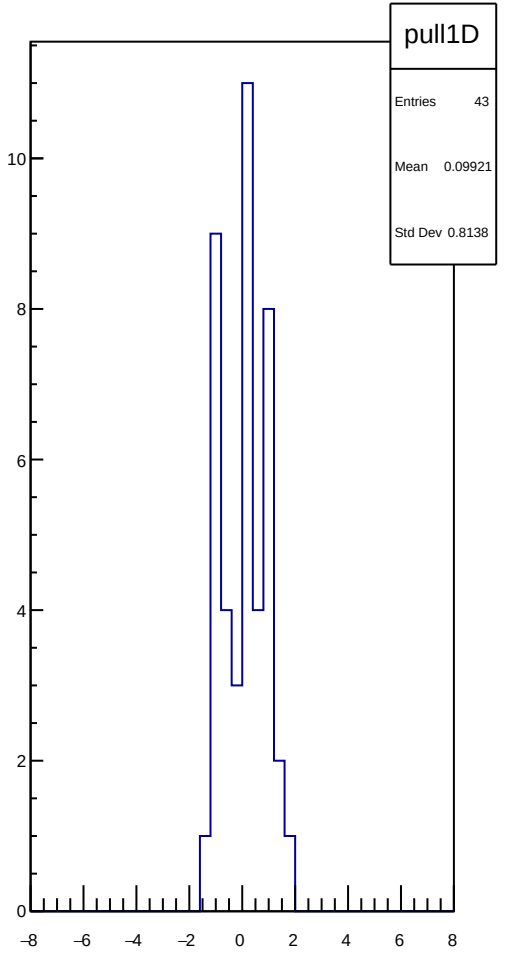

pull1D
Entries 43
Mean −0.0322
Std Dev 0.6176

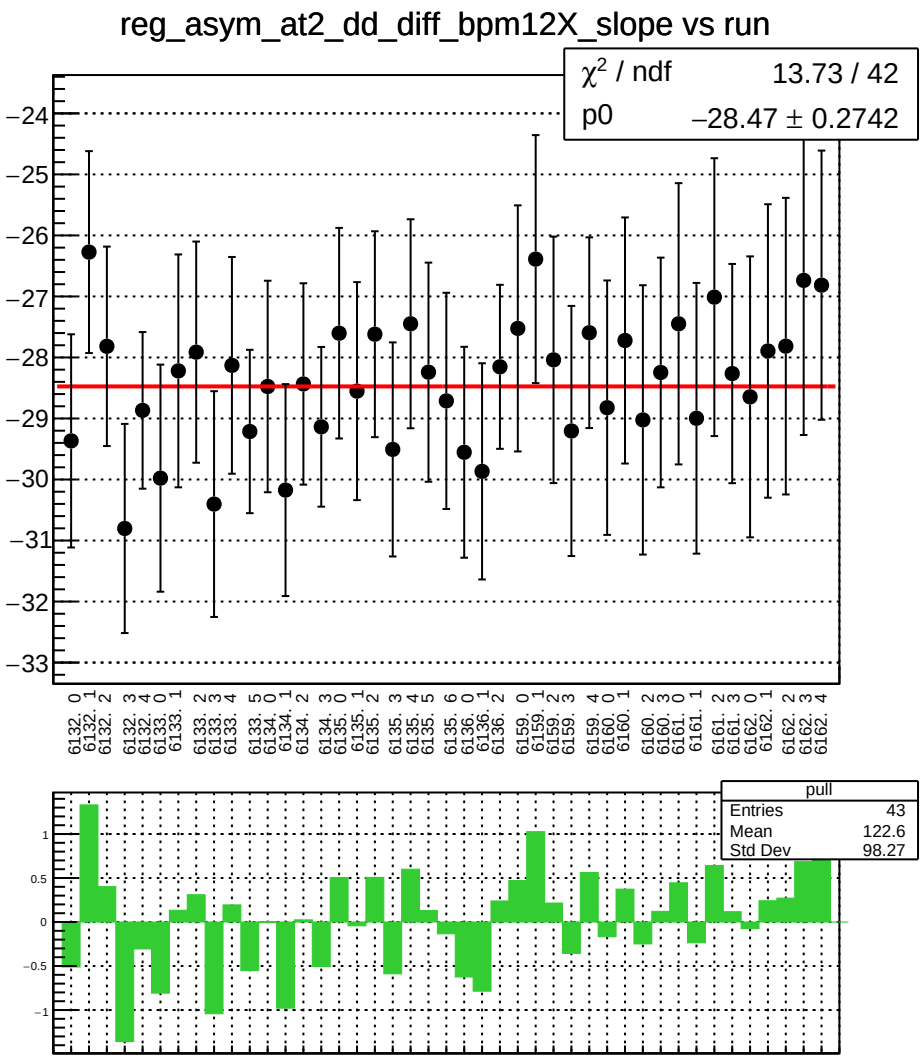

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.31 / 42
p0 −23.52 ± 3.529
pull
Entries 43
Mean 97.73
Std Dev 73.36
pull1D
Entries 43
Mean −0.07734
Std Dev 0.7161

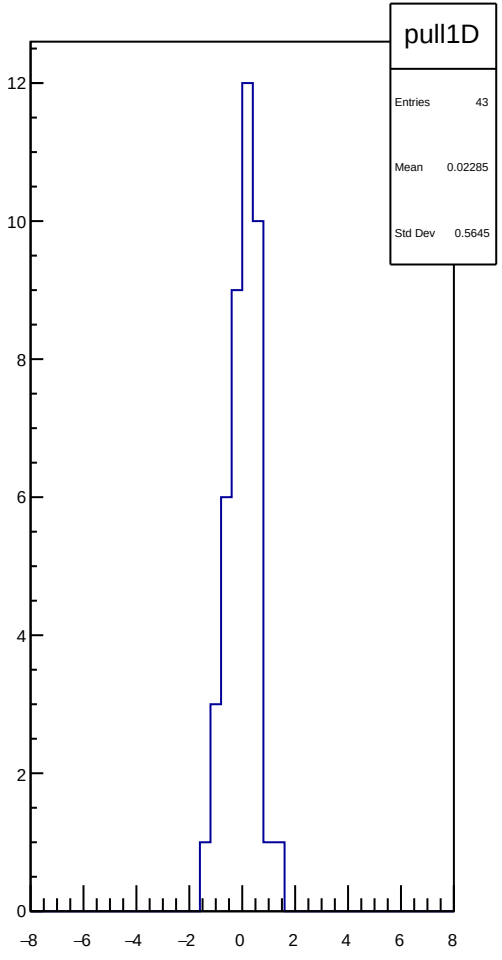

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.58 / 42
p0 165.2 ± 6.183
pull
Entries 43
Mean 100.2
Std Dev 74.04

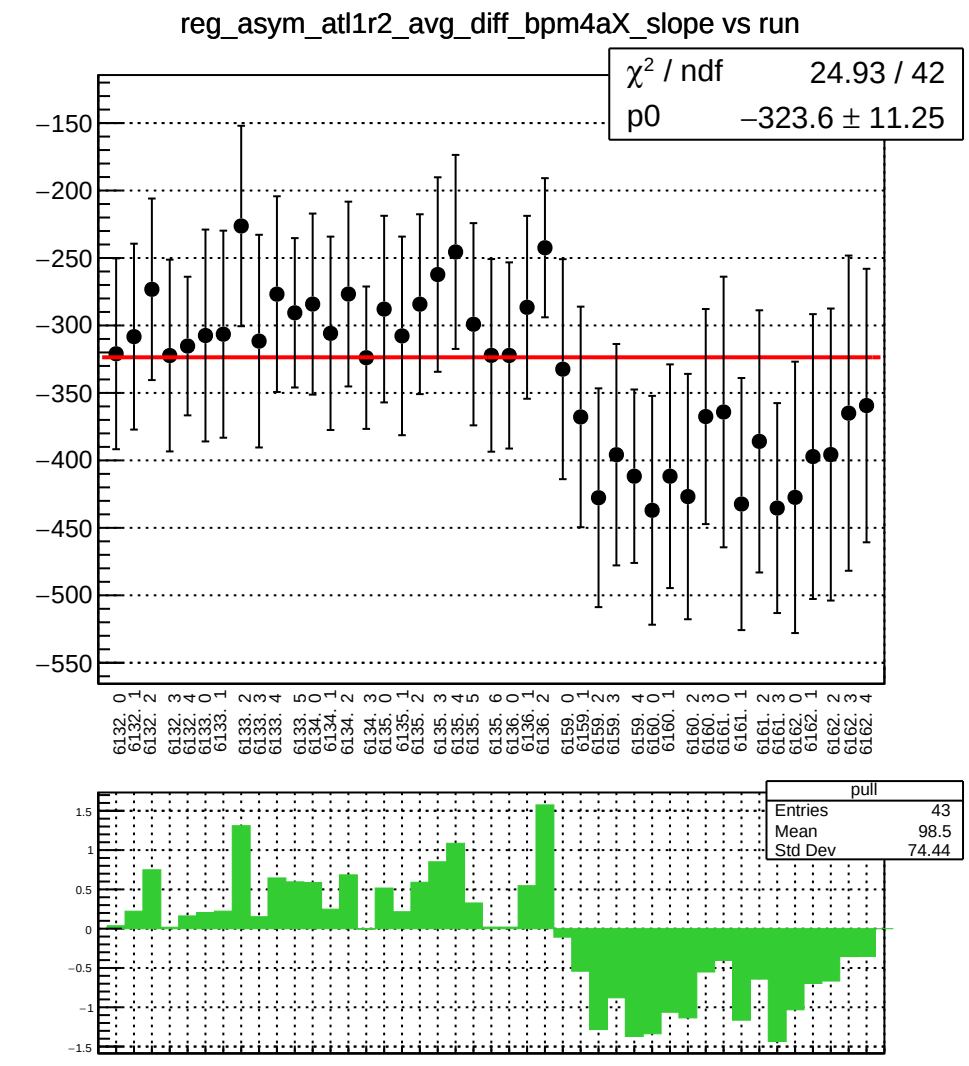

pull1D
Entries 43
Mean 0.03123
Std Dev 0.6201

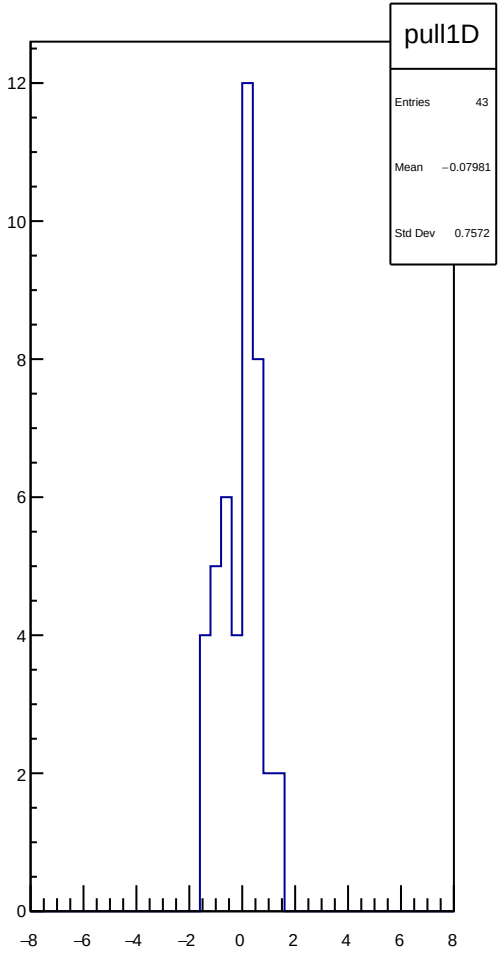

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.9 / 42
p0 49.98 ± 3.746
pull
Entries 43
Mean 90.81
Std Dev 66.28

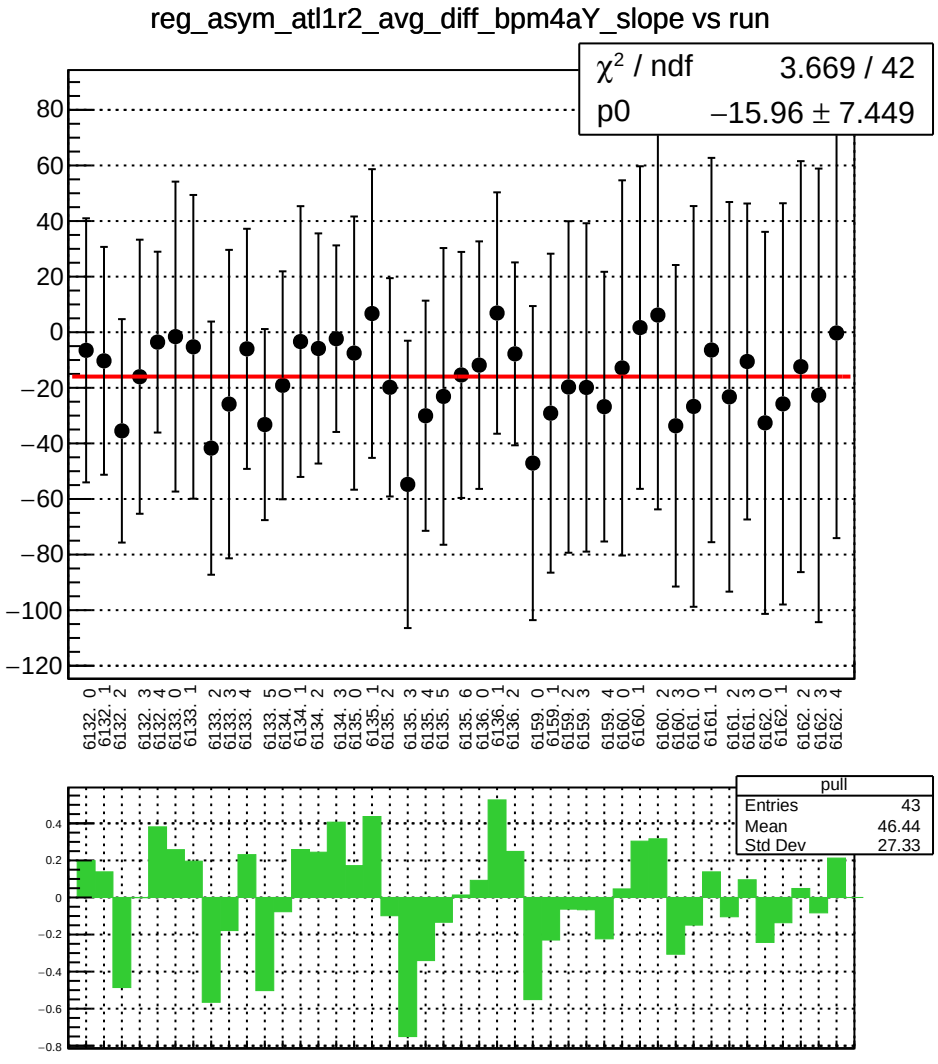

pull1D
Entries 43
Mean 0.09921
Std Dev 0.8138

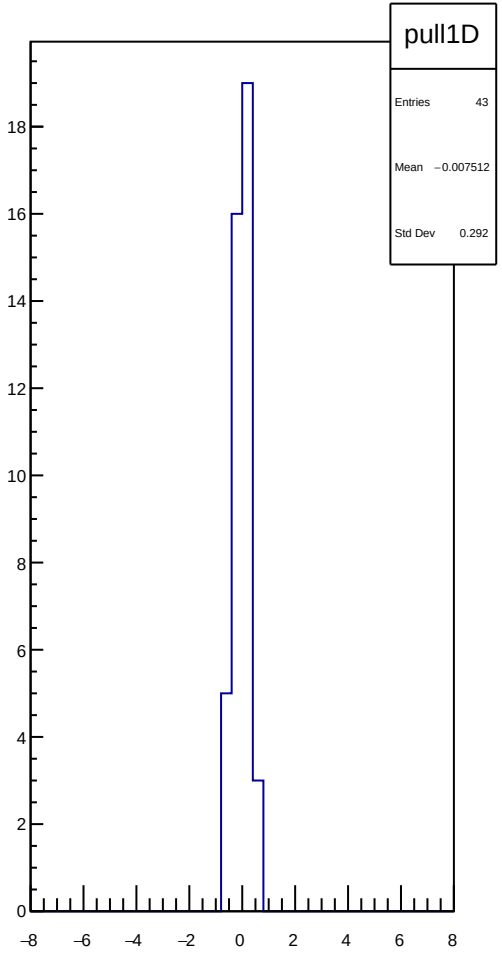

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 13.73 / 42
p0 −28.47 ± 0.2742
pull
Entries 43
Mean 122.6
Std Dev 98.27

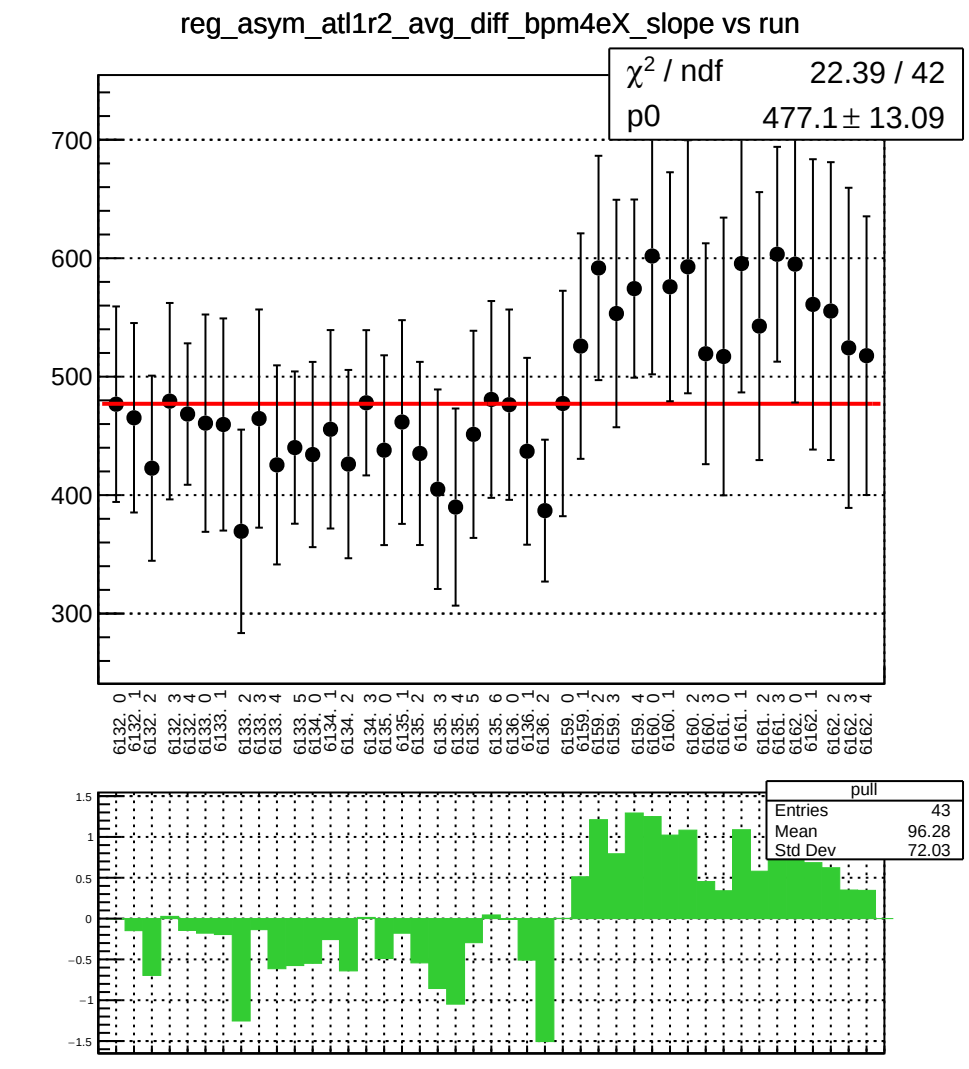

pull1D
Entries 43
Mean 0.02285
Std Dev 0.5645

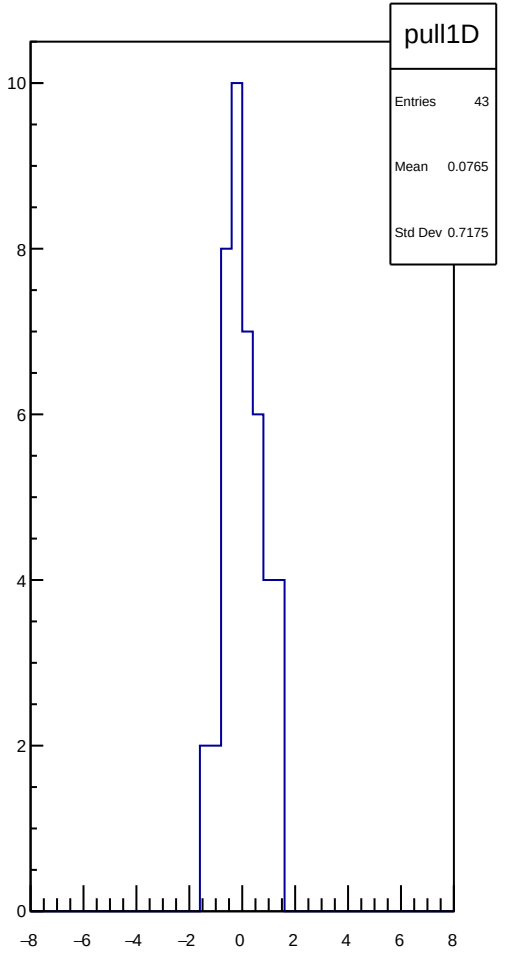

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 24.93 / 42
p0 −323.6 ± 11.25
−150
−200
−250
−300
−350
−400
−450
−500
−550
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 98.5
Std Dev 74.44
1.5
1
0.5
0
−0.5
−1
−1.5

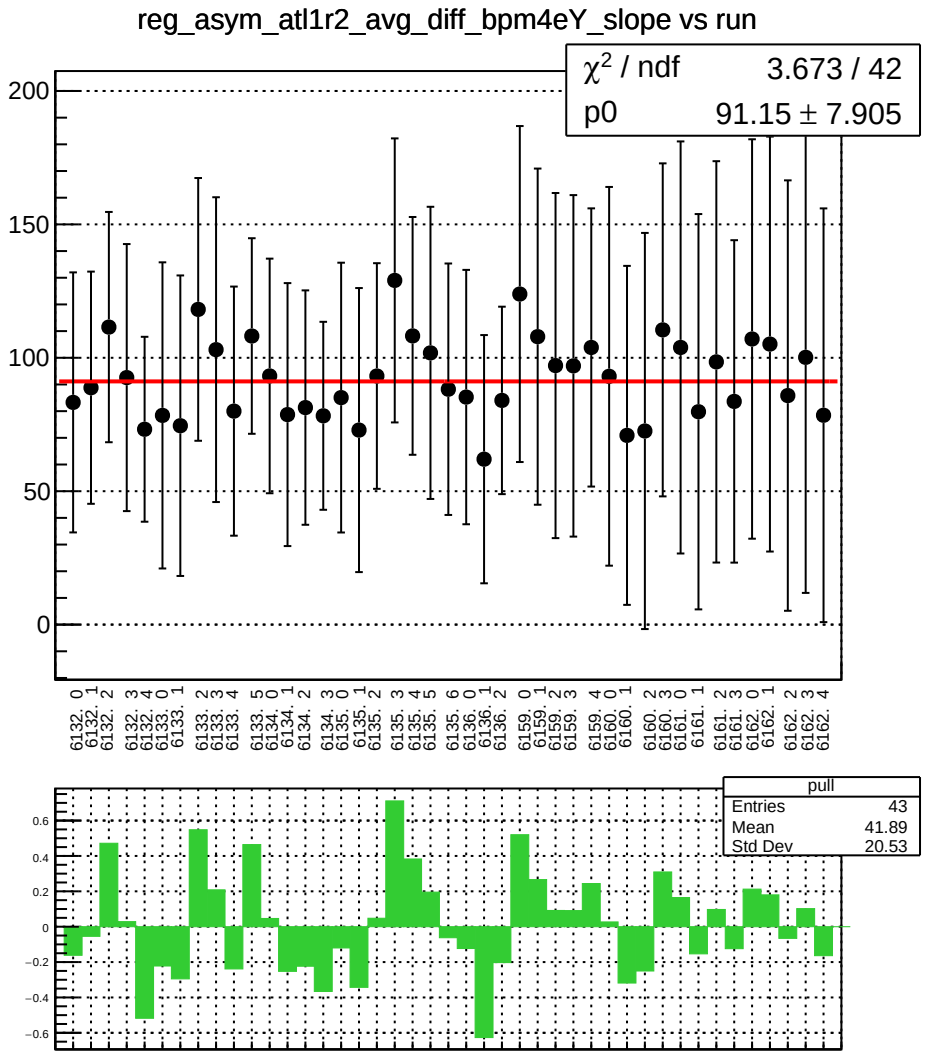

pull1D
Entries 43
Mean −0.07981
Std Dev 0.7572
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

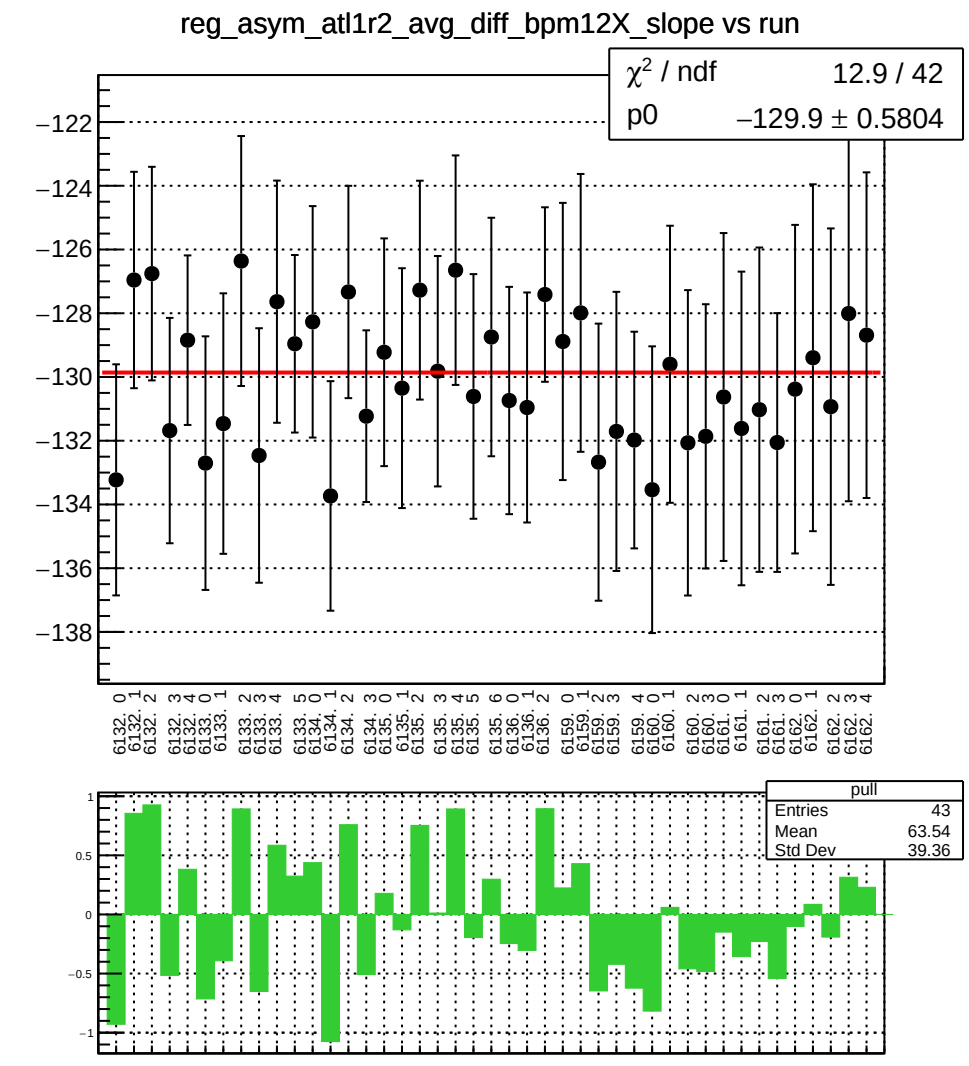

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.669 / 42
p0 −15.96 ± 7.449
pull
Entries 43
Mean 46.44
Std Dev 27.33

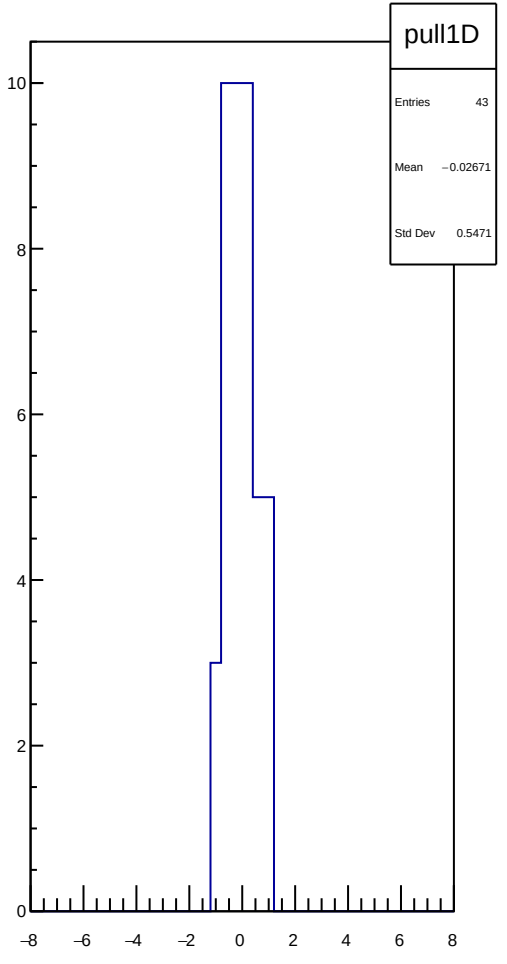

pull1D
Entries 43
Mean −0.007512
Std Dev 0.292

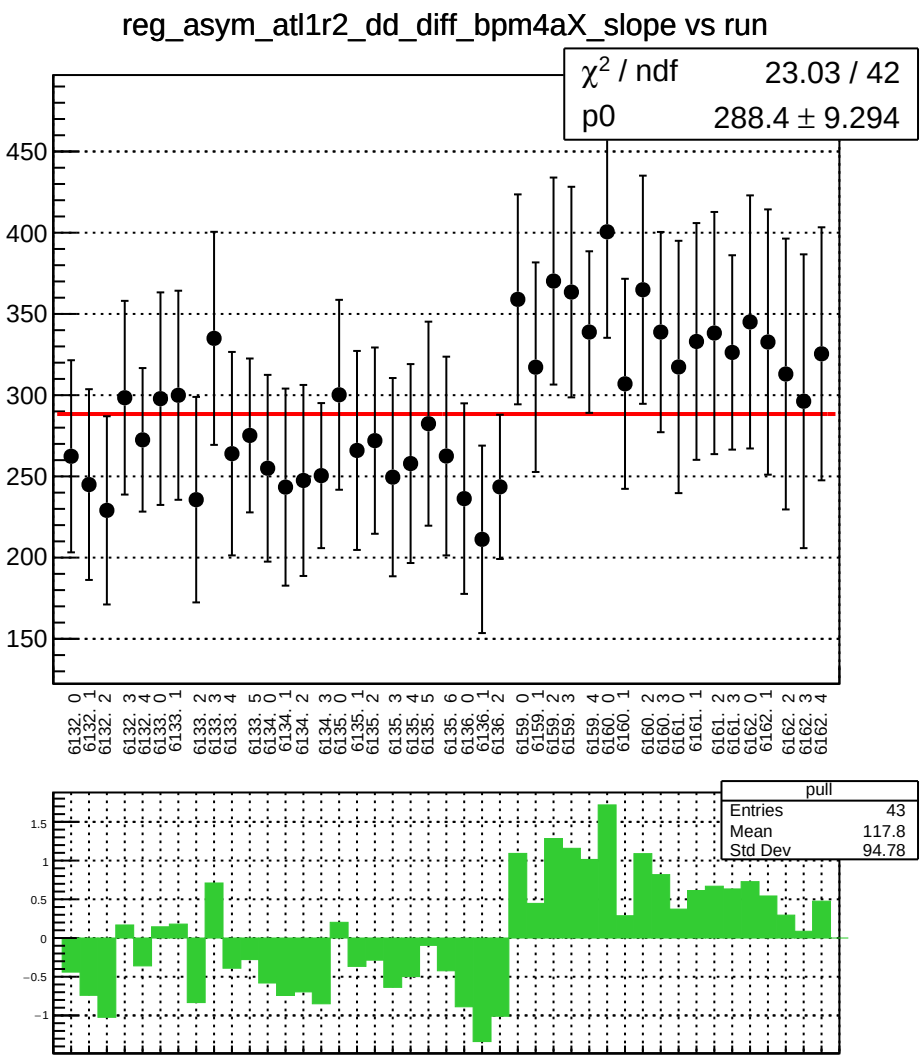

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.39 / 42
p0 477.1 ± 13.09
700
600
500
400
300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 96.28
Std Dev 72.03
1.5
1
0.5
0
−0.5
−1
−1.5

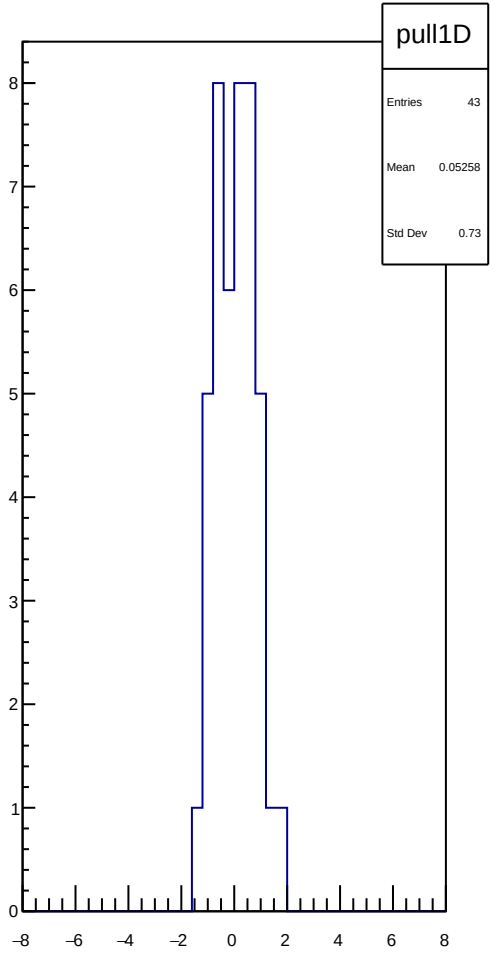

pull1D
Entries 43
Mean 0.0765
Std Dev 0.7175
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

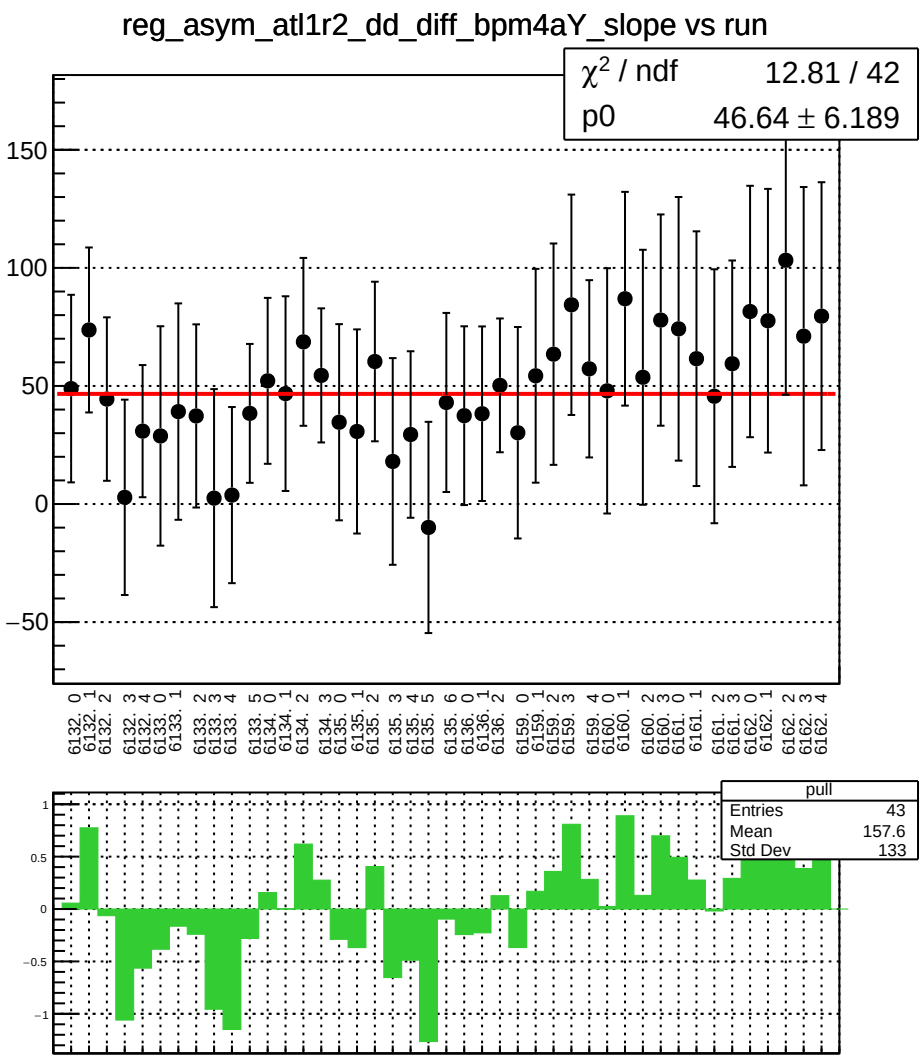

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.673 / 42
p0 91.15 ± 7.905
200
150
100
50
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 41.89
Std Dev 20.53
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean 0.01222
Std Dev 0.292
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

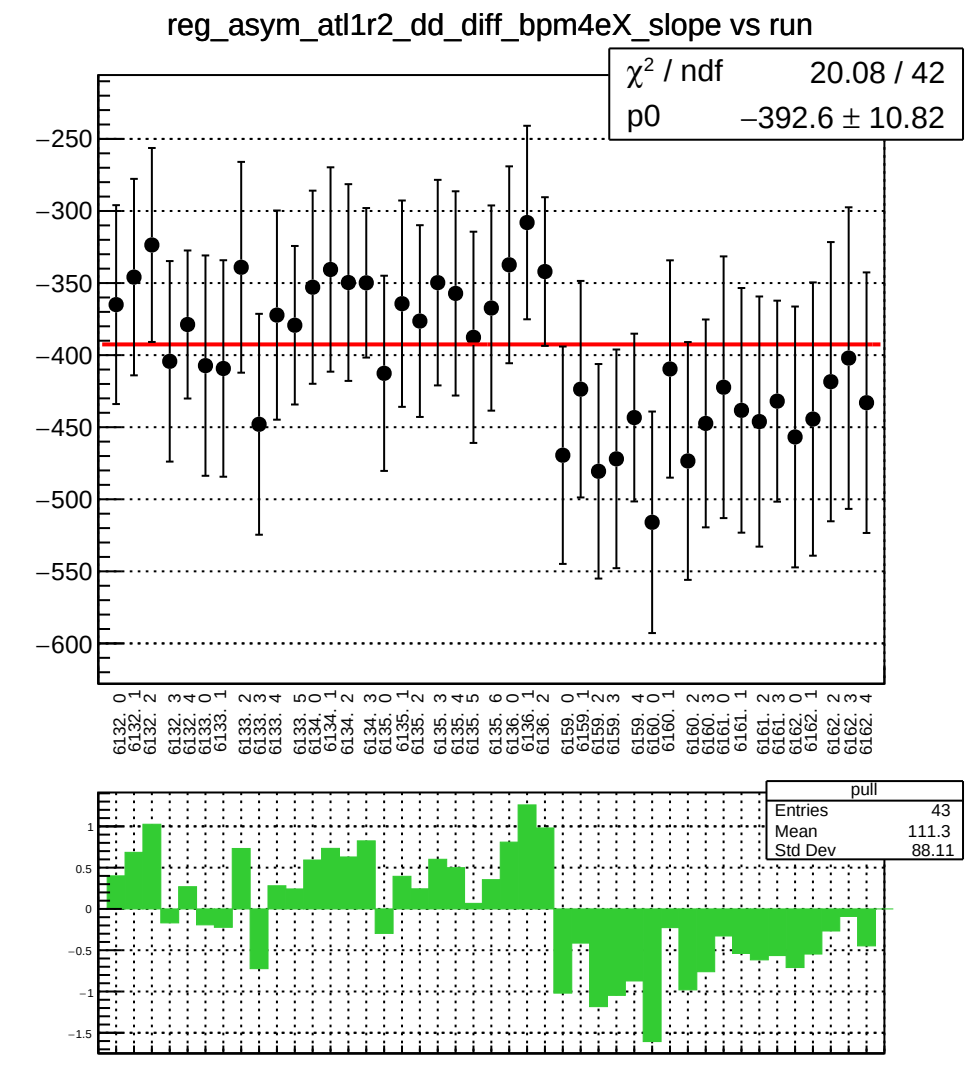

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 12.9 / 42
p0 −129.9 ± 0.5804
−122
−124
−126
−128
−130
−132
−134
−136
−138
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 63.54
Std Dev 39.36
1
0.5
0
−0.5
−1

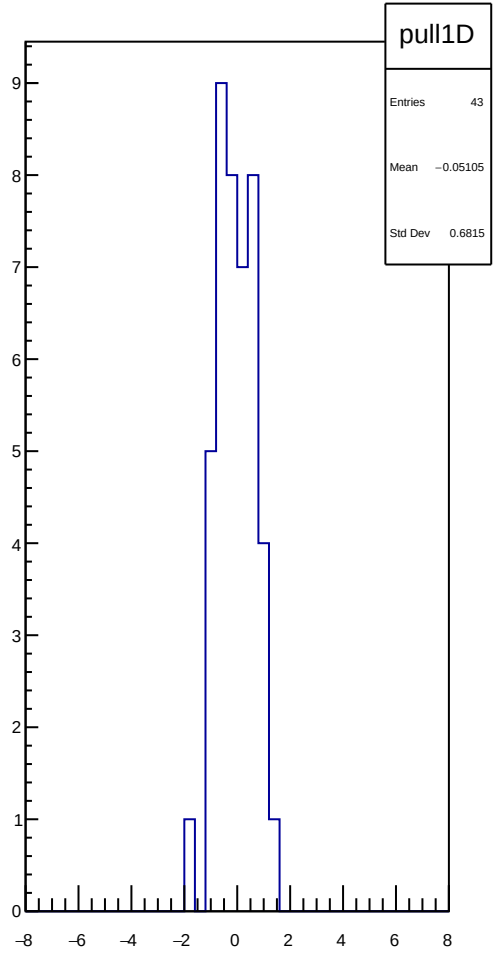

pull1D
Entries 43
Mean −0.02671
Std Dev 0.5471
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

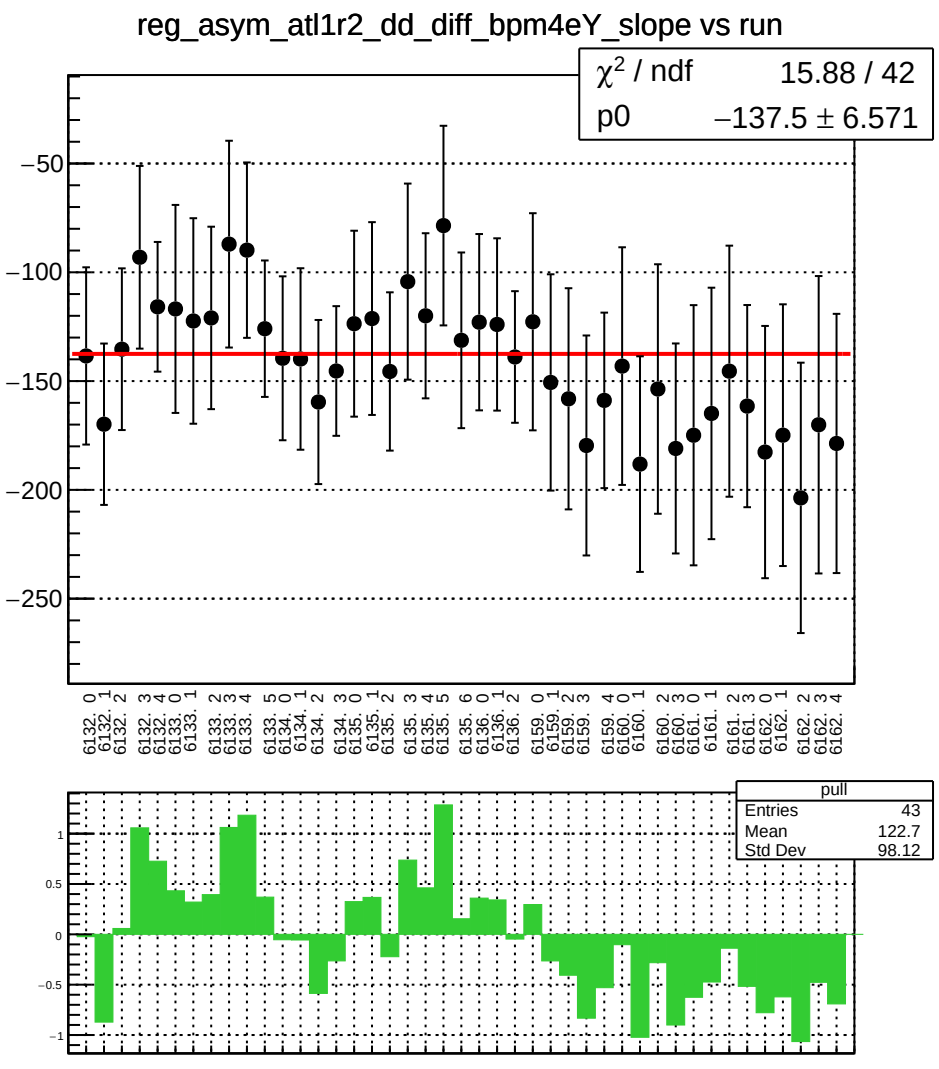

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 23.03 / 42
p0 288.4 ± 9.294
pull
Entries 43
Mean 117.8
Std Dev 94.78

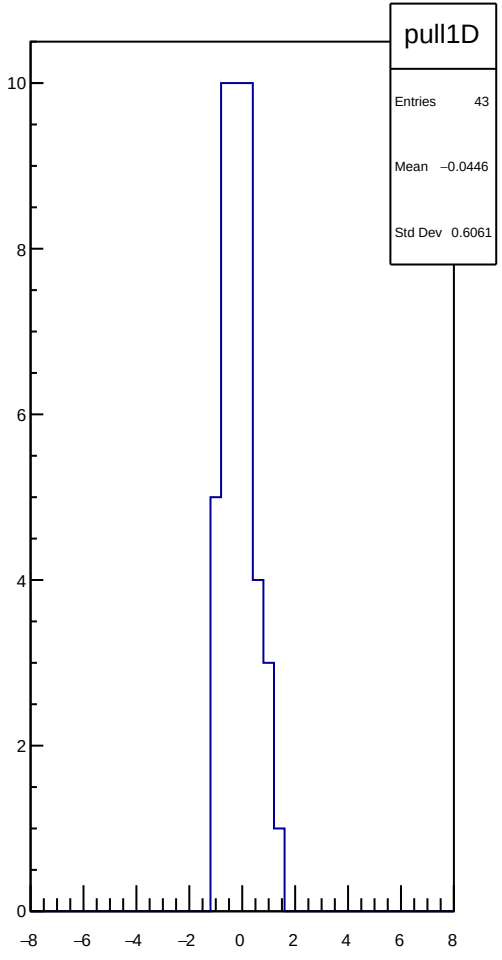

pull1D
Entries 43
Mean 0.05258
Std Dev 0.73

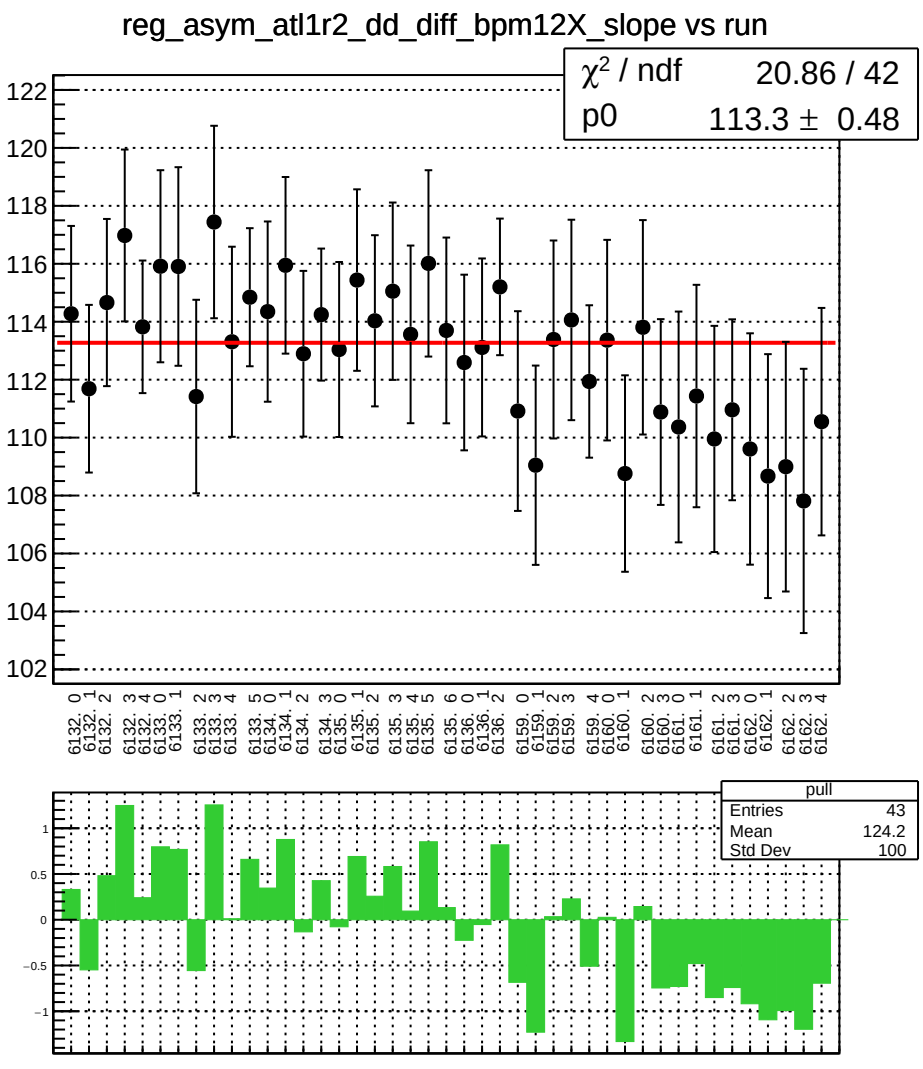

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.81 / 42
p0 46.64 ± 6.189
150
100
50
0
−50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 157.6
Std Dev 133
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.02646
Std Dev 0.5451
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

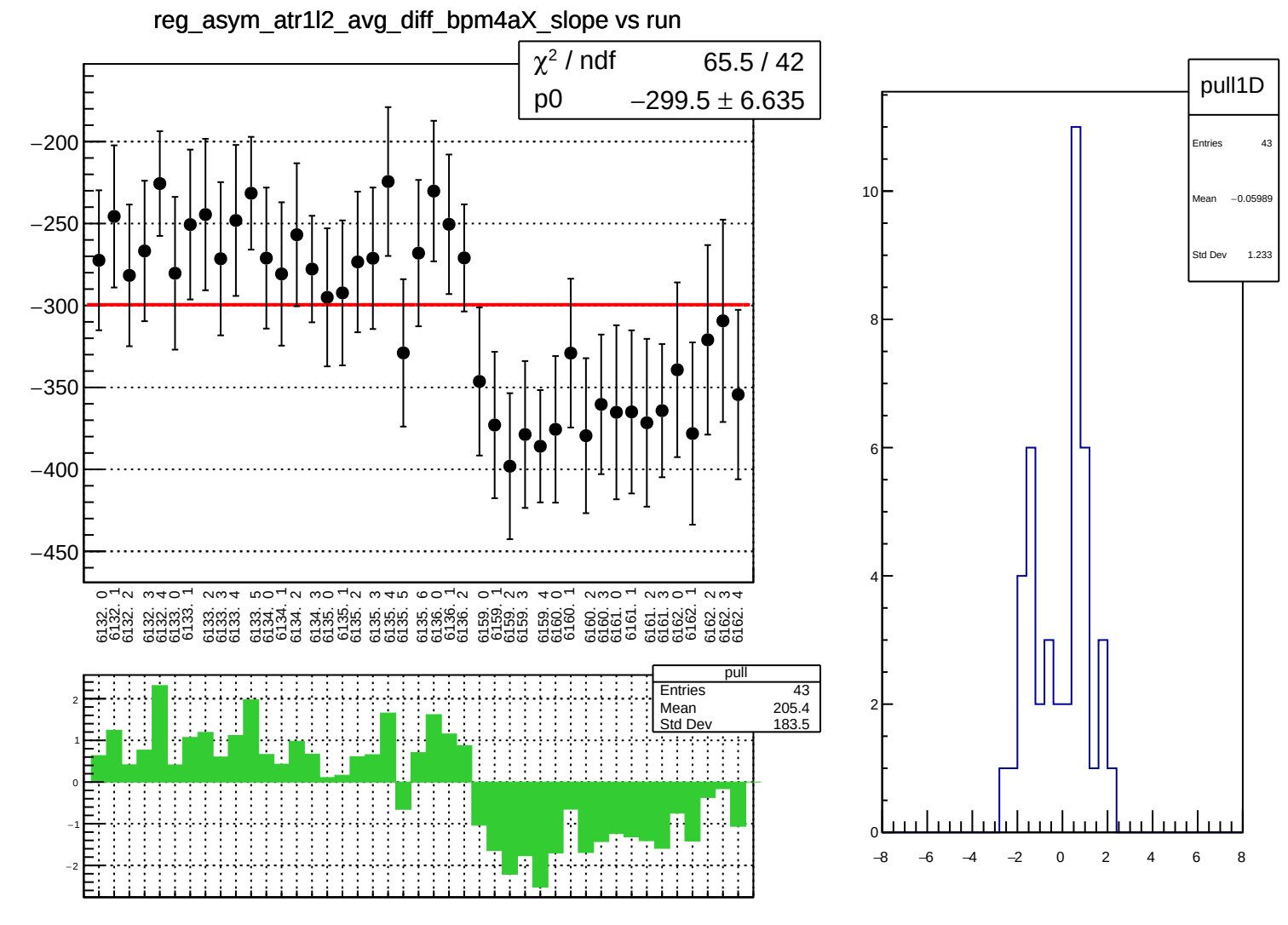

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.08 / 42
p0 −392.6 ± 10.82
−250
−300
−350
−400
−450
−500
−550
−600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 111.3
Std Dev 88.11
1
0.5
0
−0.5
−1
−1.5

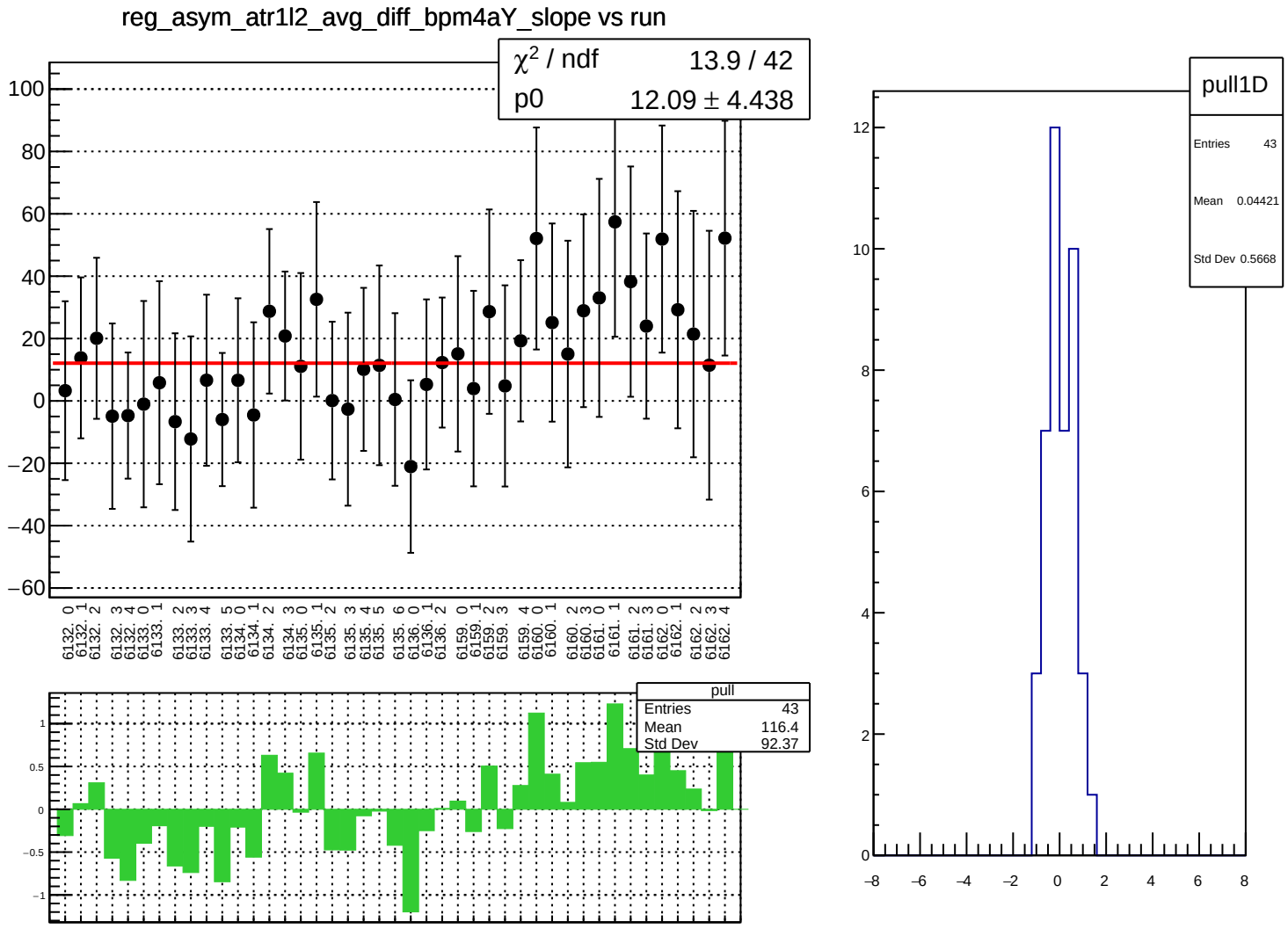

pull1D
Entries 43
Mean −0.05105
Std Dev 0.6815
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

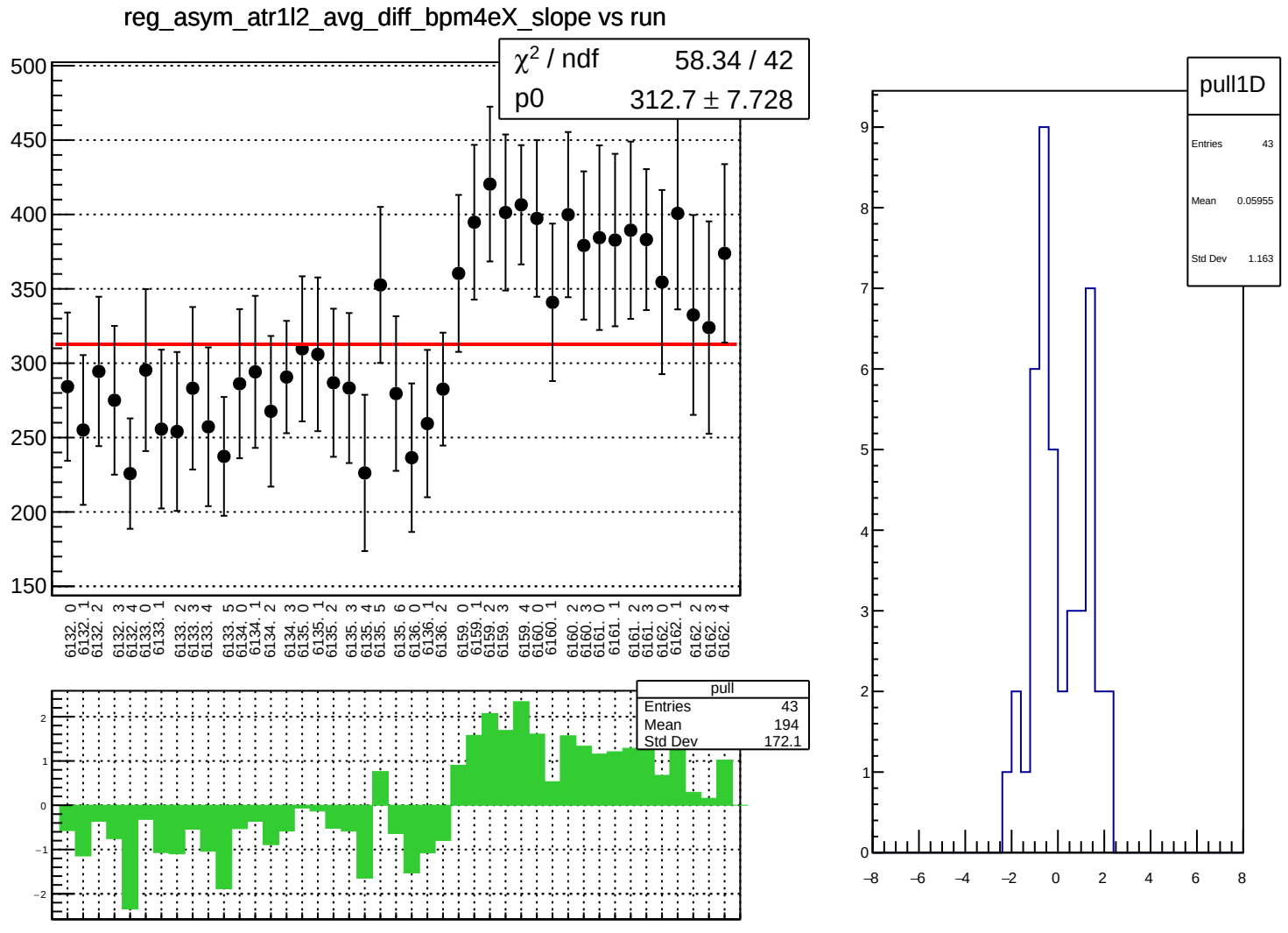

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.88 / 42
p0 −137.5 ± 6.571
−50
−100
−150
−200
−250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 122.7
Std Dev 98.12
1
0.5
0
−0.5
−1

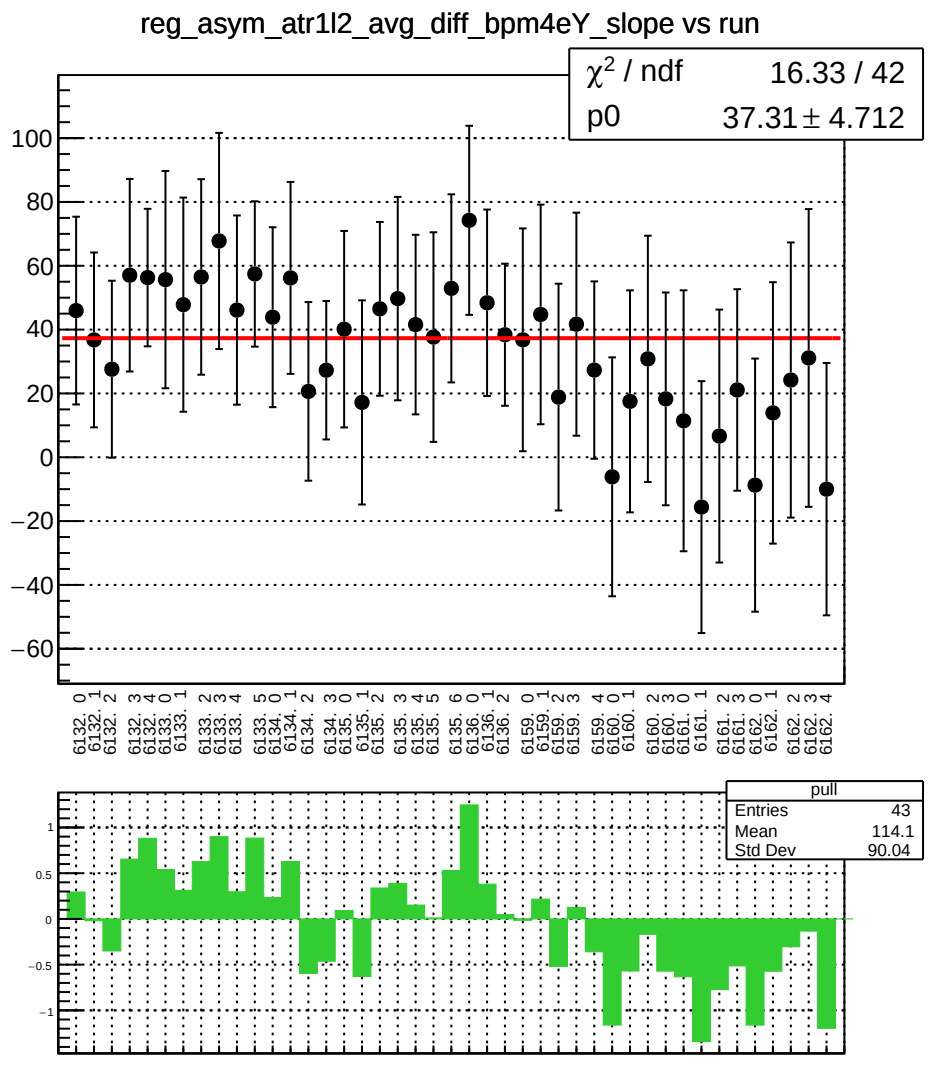

pull1D
Entries 43
Mean −0.0446
Std Dev 0.6061
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

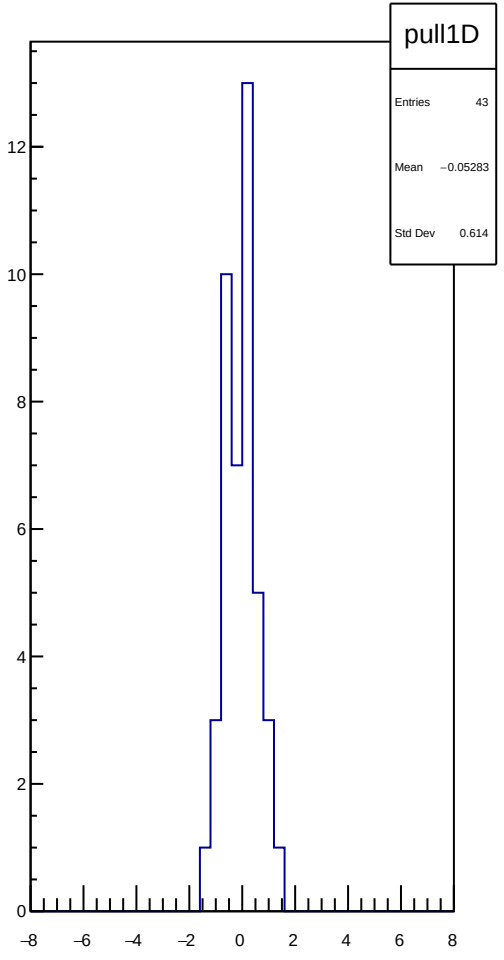

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 20.86 / 42
p0 113.3 ± 0.48
122
120
118
116
114
112
110
108
106
104
102
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 124.2
Std Dev 100
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.05769
Std Dev 0.6941
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

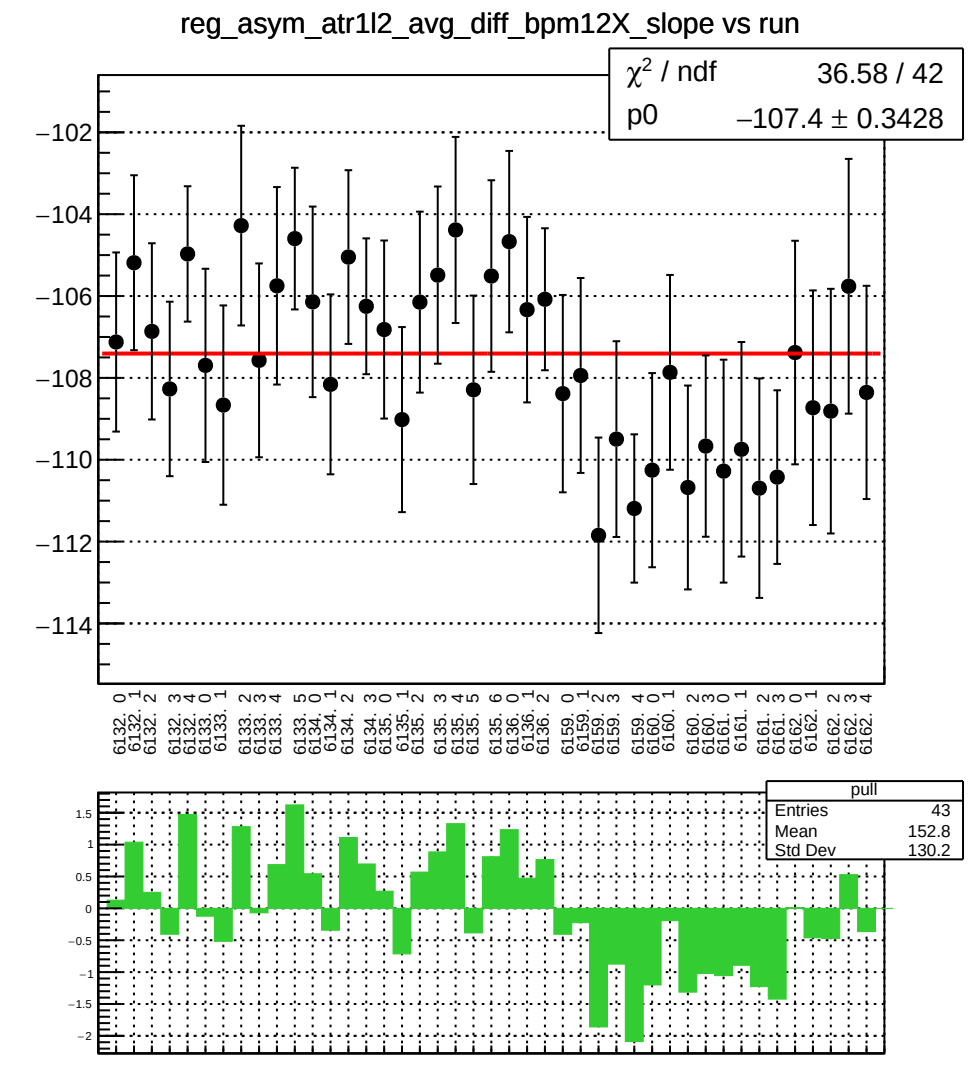

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 65.5 / 42
p0 −299.5 ± 6.635
−200
−250
−300
−350
−400
−450
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 205.4
Std Dev 183.5
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.05989
Std Dev 1.233
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

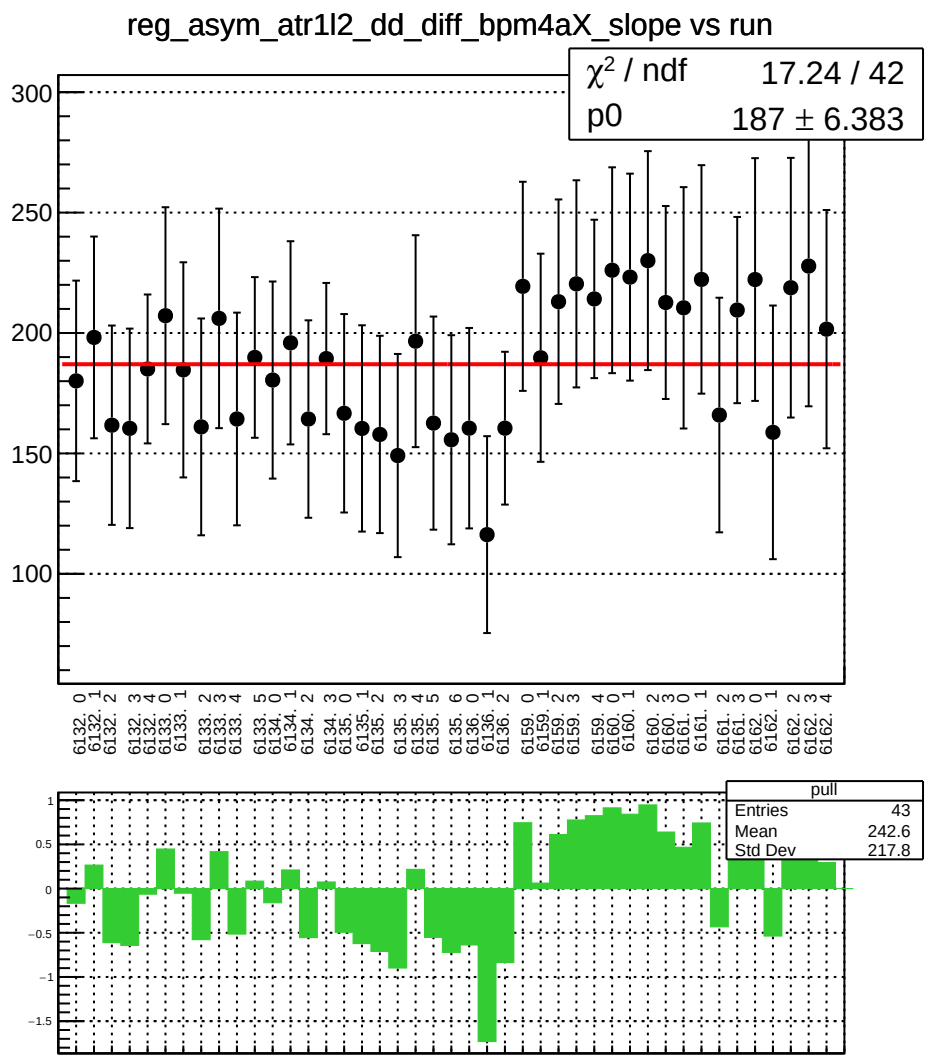

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.9 / 42
p0 12.09 ± 4.438
pull
Entries 43
Mean 116.4
Std Dev 92.37
pull1D
Entries 43
Mean 0.04421
Std Dev 0.5668

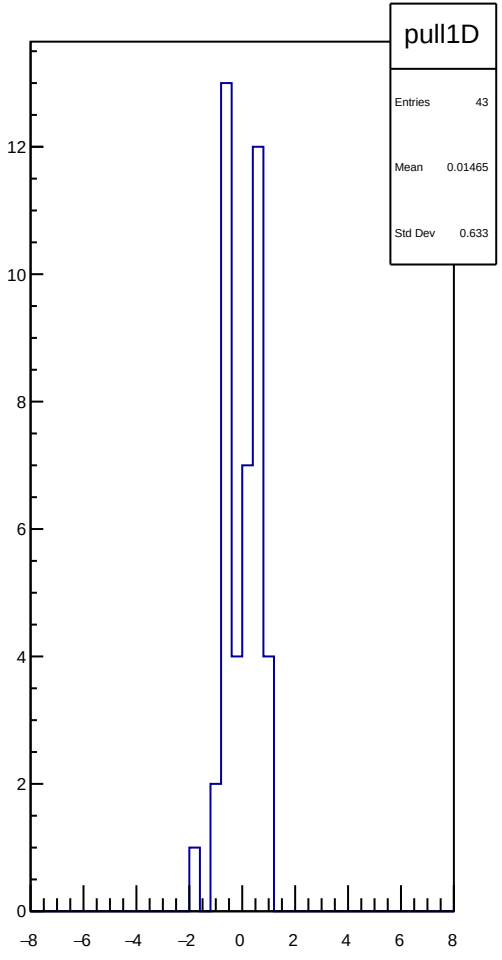

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 58.34 / 42
p0 312.7 ± 7.728
500
450
400
350
300
250
200
150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 194
Std Dev 172.1
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.05955
Std Dev 1.163
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

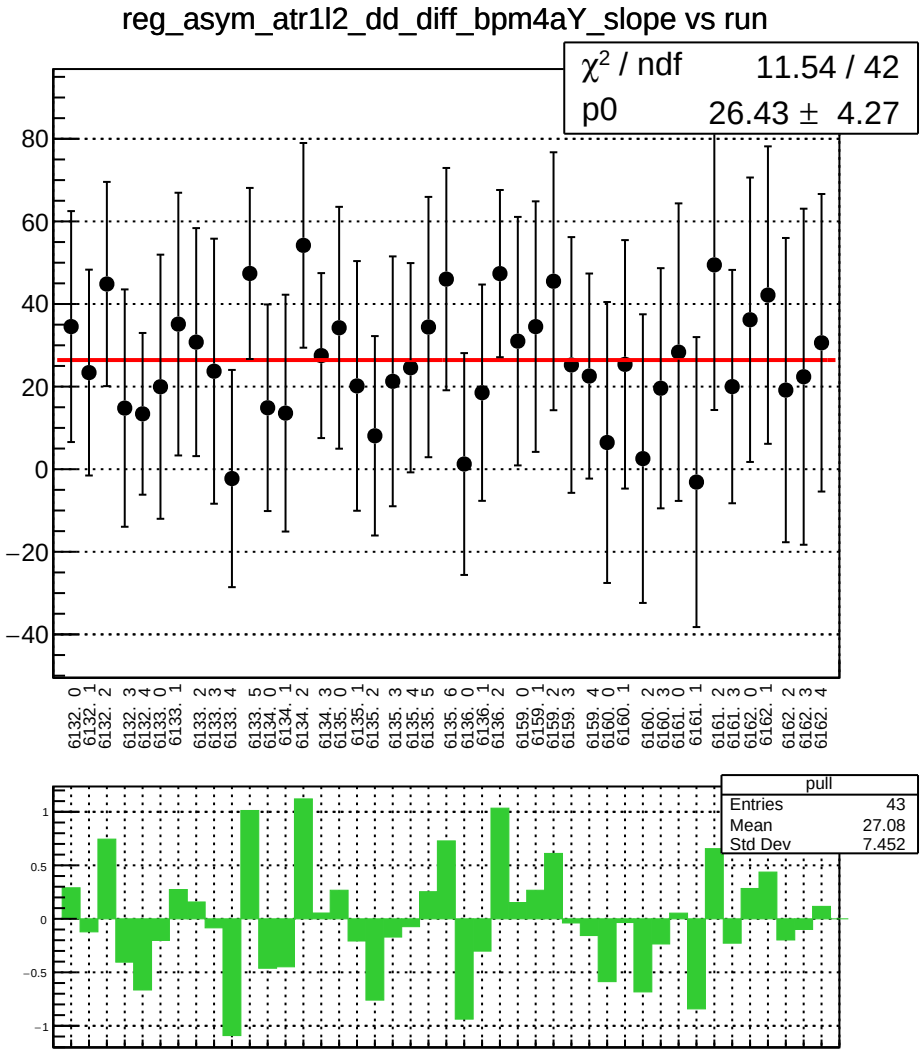

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.33 / 42
p0 37.31 ± 4.712
pull
Entries 43
Mean 114.1
Std Dev 90.04

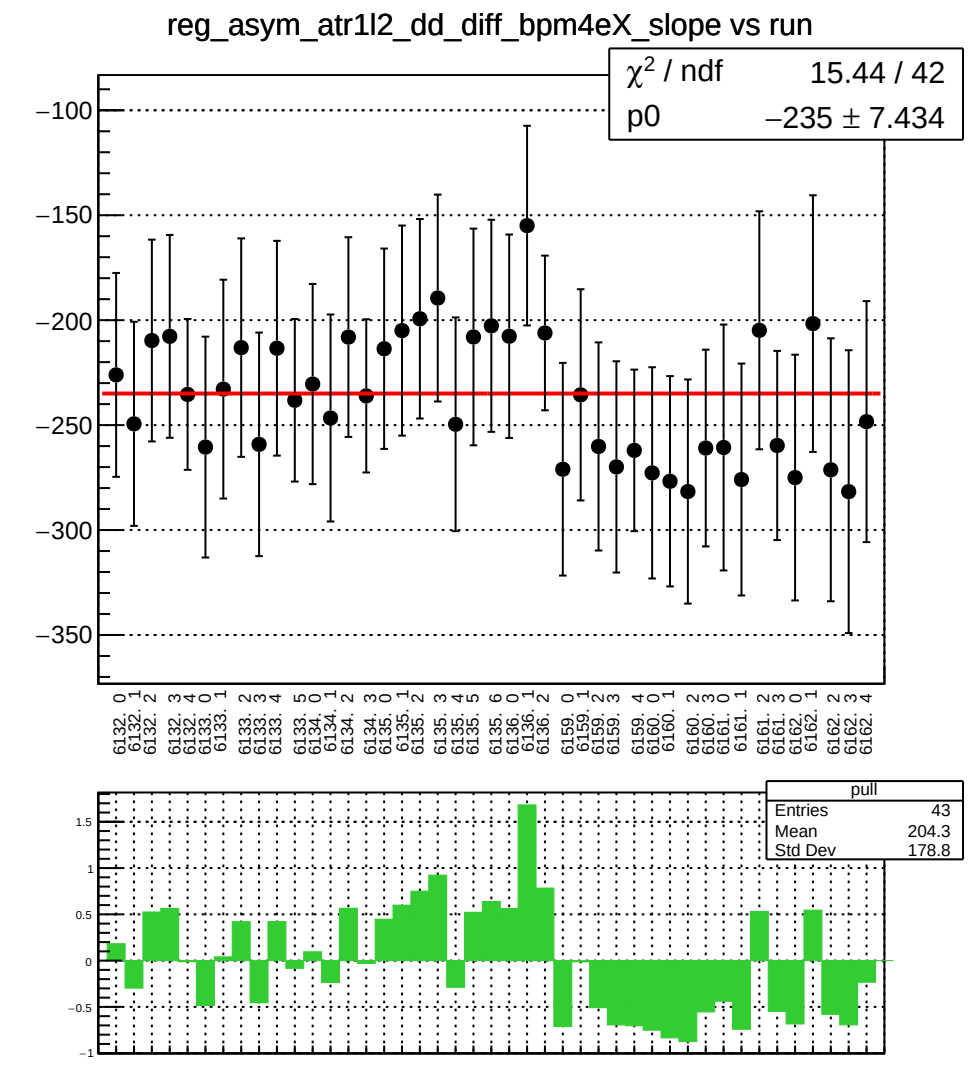

pull1D
Entries 43
Mean −0.05283
Std Dev 0.614

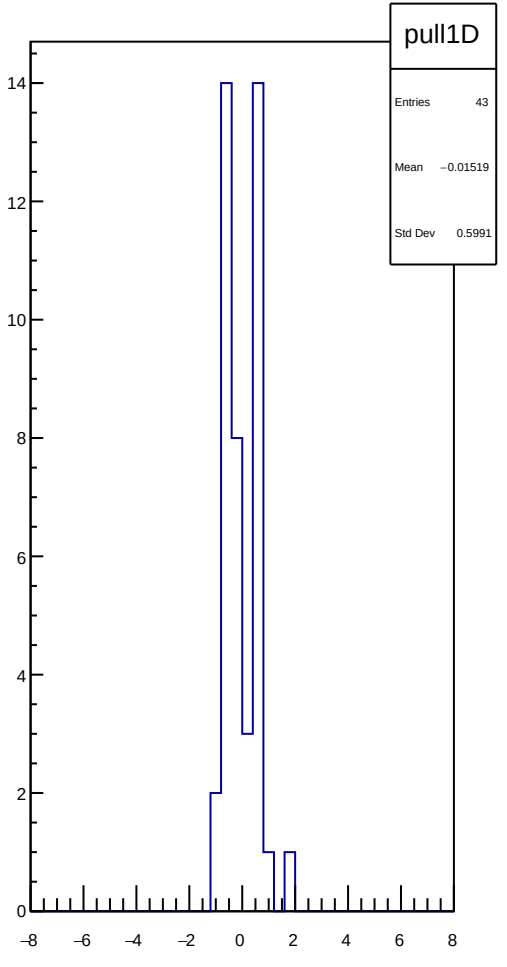

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 36.58 / 42
p0 −107.4 ± 0.3428
−102
−104
−106
−108
−110
−112
−114
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 152.8
Std Dev 130.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.04499
Std Dev 0.9212
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

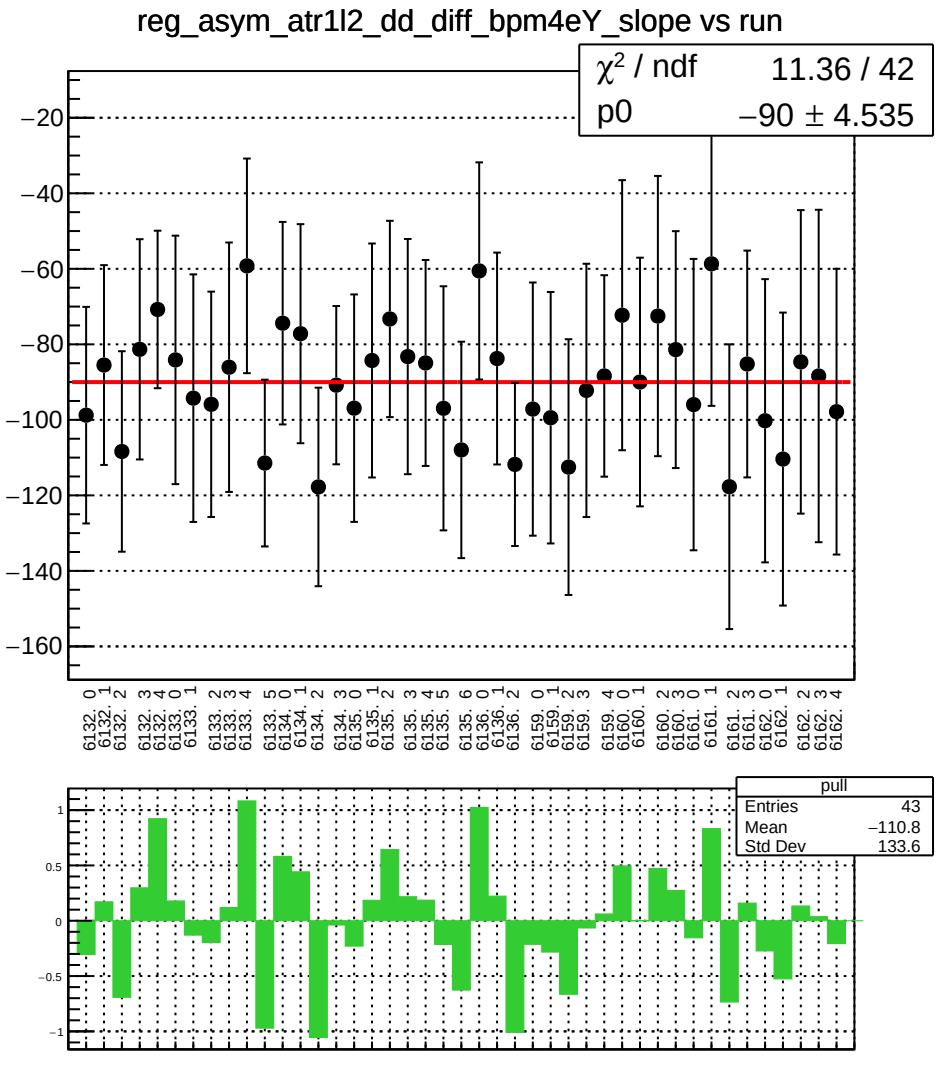

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 17.24 / 42
p0 187 ± 6.383
300
250
200
150
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 242.6
Std Dev 217.8
1
0.5
0
−0.5
−1
−1.5

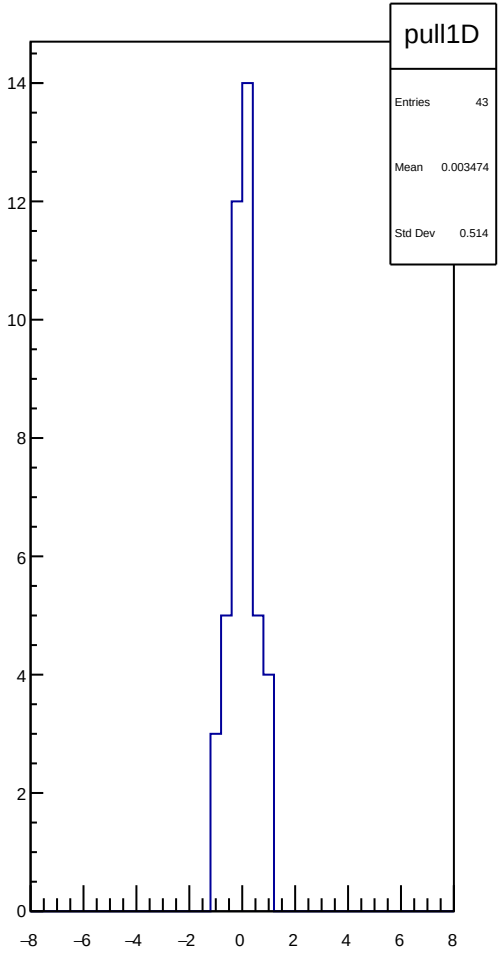

pull1D
Entries 43
Mean 0.01465
Std Dev 0.633
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

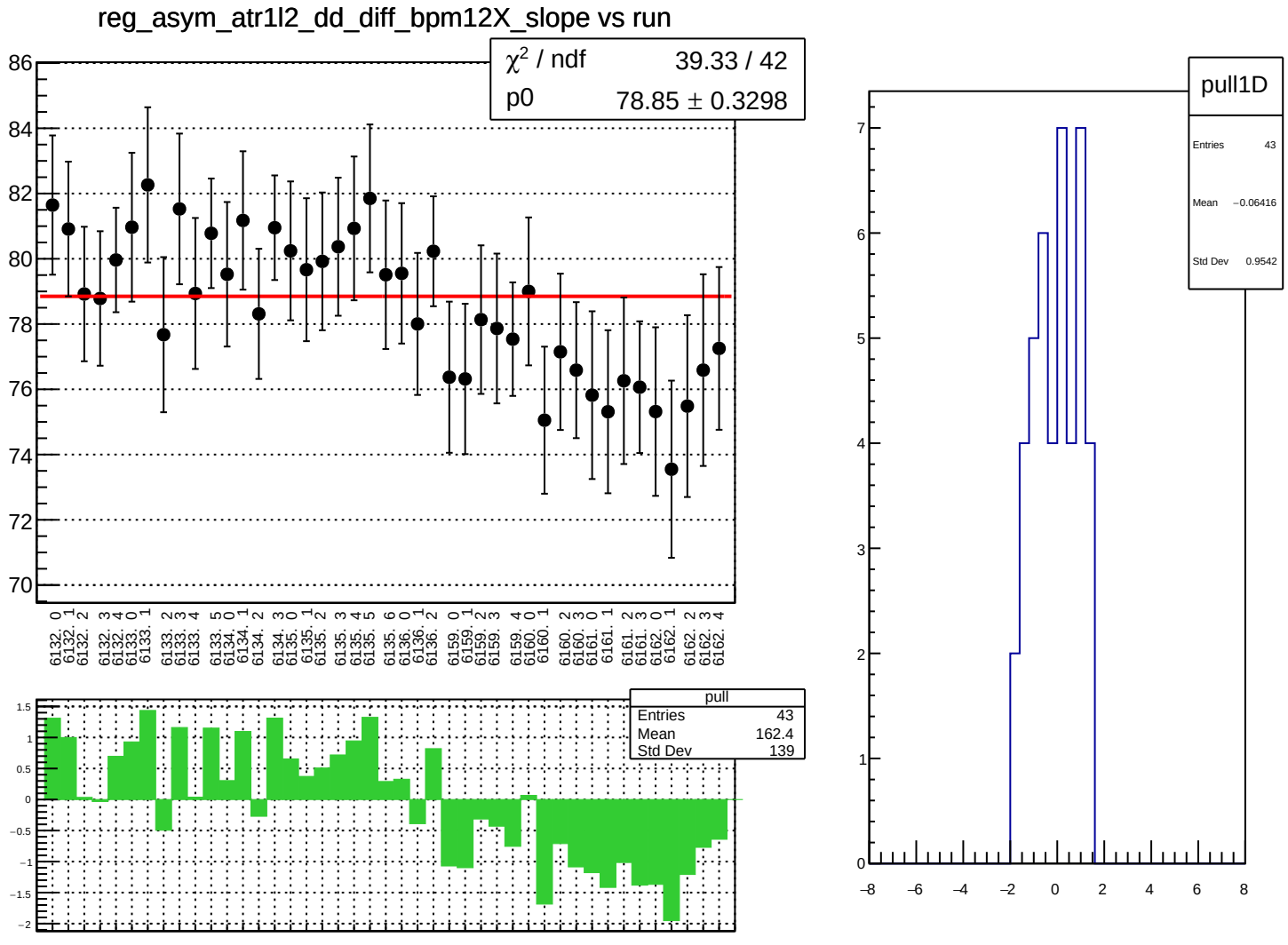

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.54 / 42
p0 26.43 ± 4.27
pull
Entries 43
Mean 27.08
Std Dev 7.452
pull1D
Entries 43
Mean −0.01198
Std Dev 0.5179

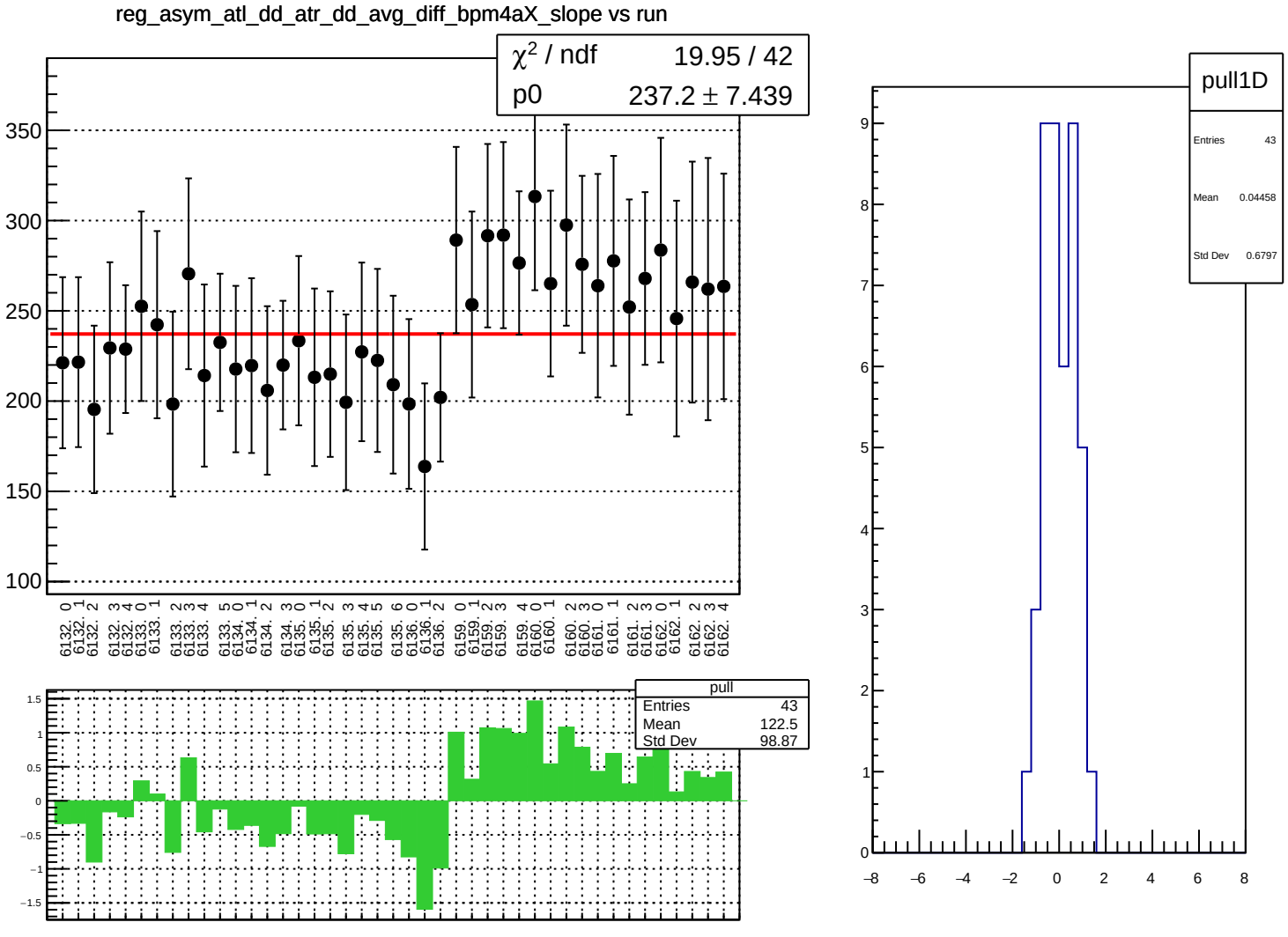

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.44 / 42
p0 −235 ± 7.434
−100
−150
−200
−250
−300
−350
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 204.3
Std Dev 178.8
1.5
1
0.5
0
−0.5
−1

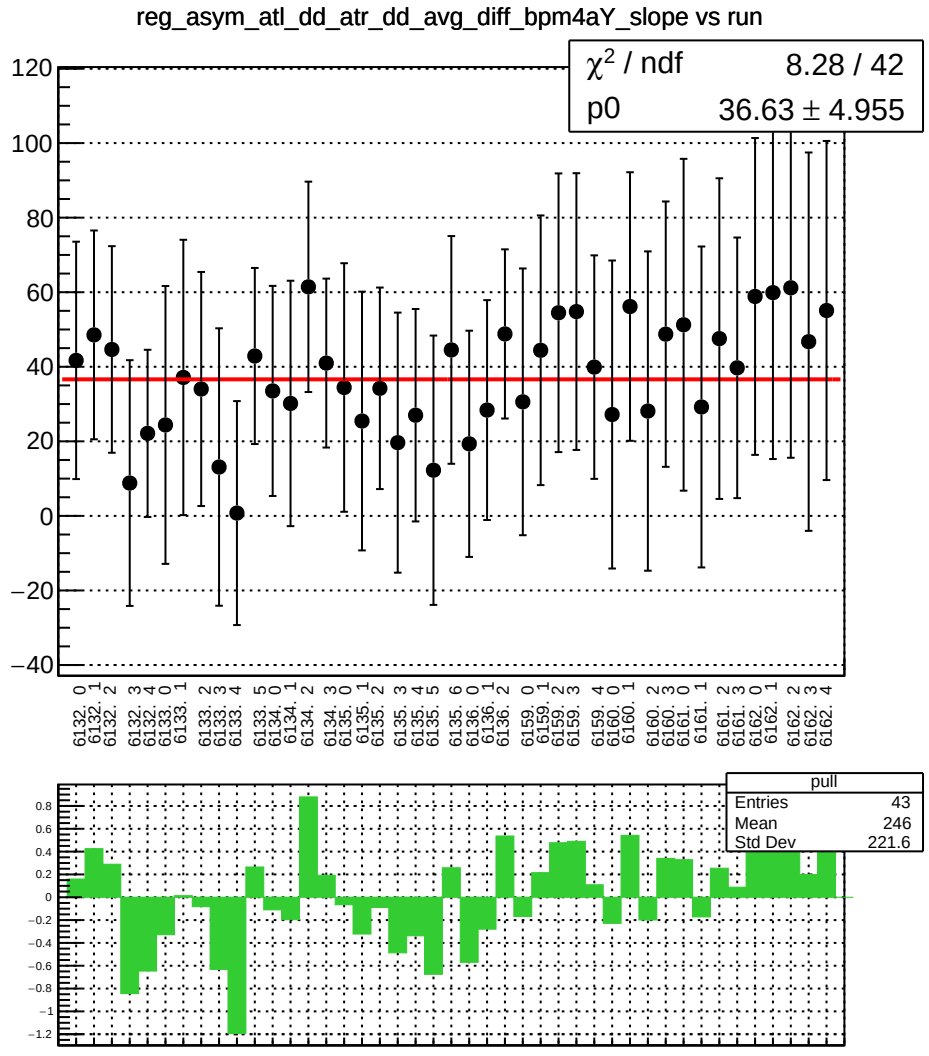

pull1D
Entries 43
Mean −0.01519
Std Dev 0.5991
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

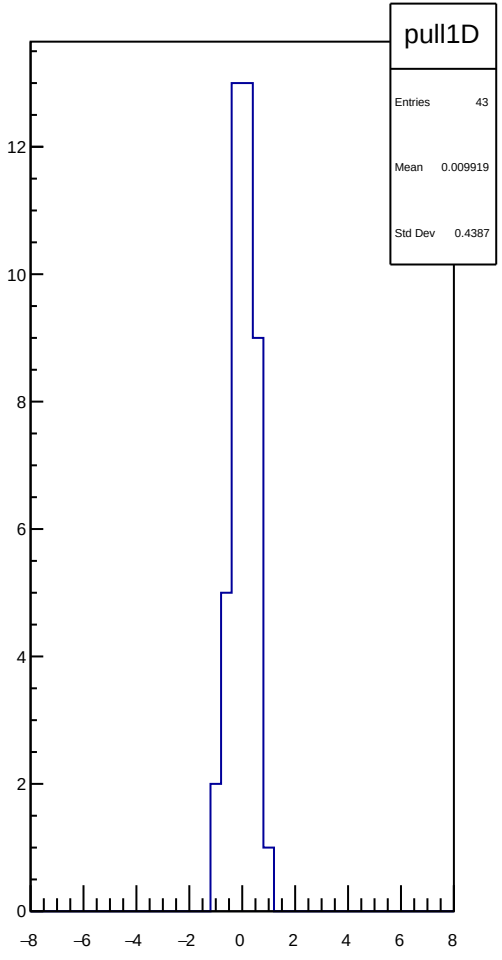

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.36 / 42
p0 −90 ± 4.535
−20
−40
−60
−80
−100
−120
−140
−160
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −110.8
Std Dev 133.6
1
0.5
0
−0.5
−1

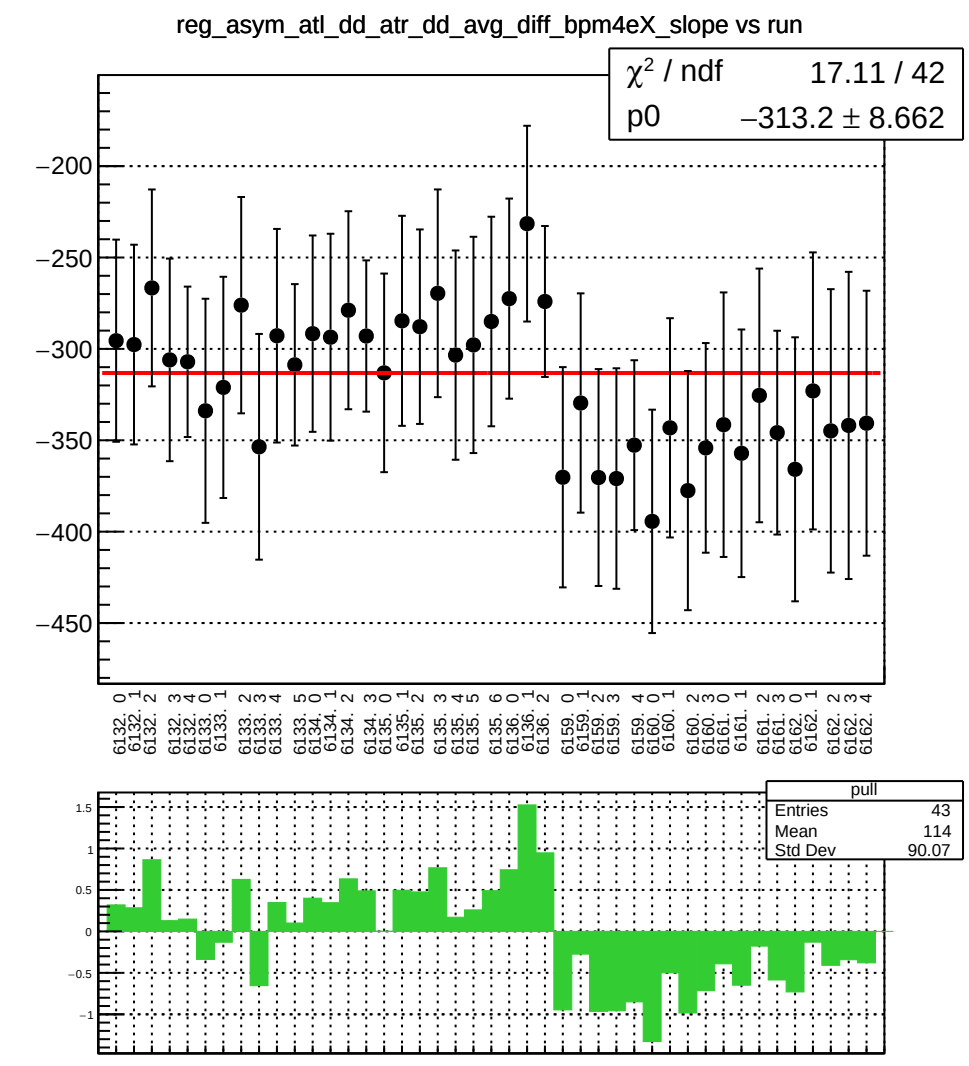

pull1D
Entries 43
Mean 0.003474
Std Dev 0.514
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

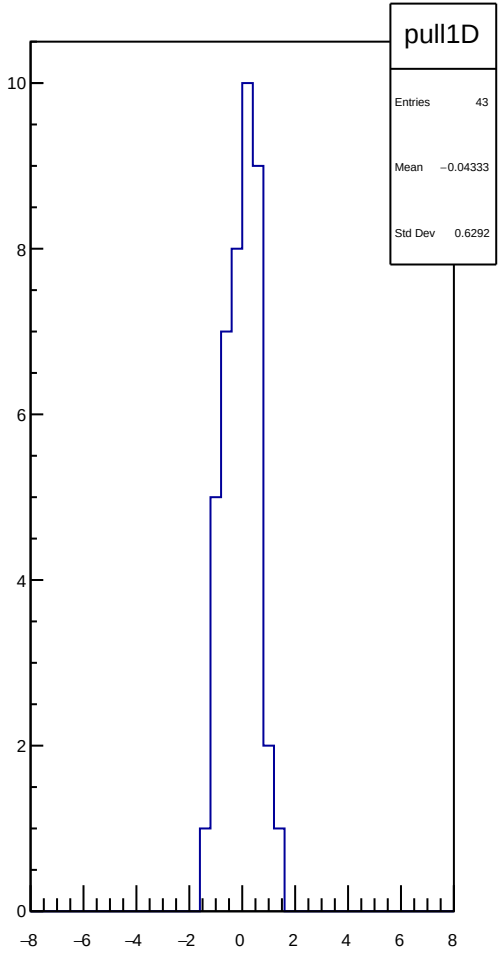

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 39.33 / 42
p0 78.85 ± 0.3298
pull
Entries 43
Mean 162.4
Std Dev 139
pull1D
Entries 43
Mean −0.06416
Std Dev 0.9542

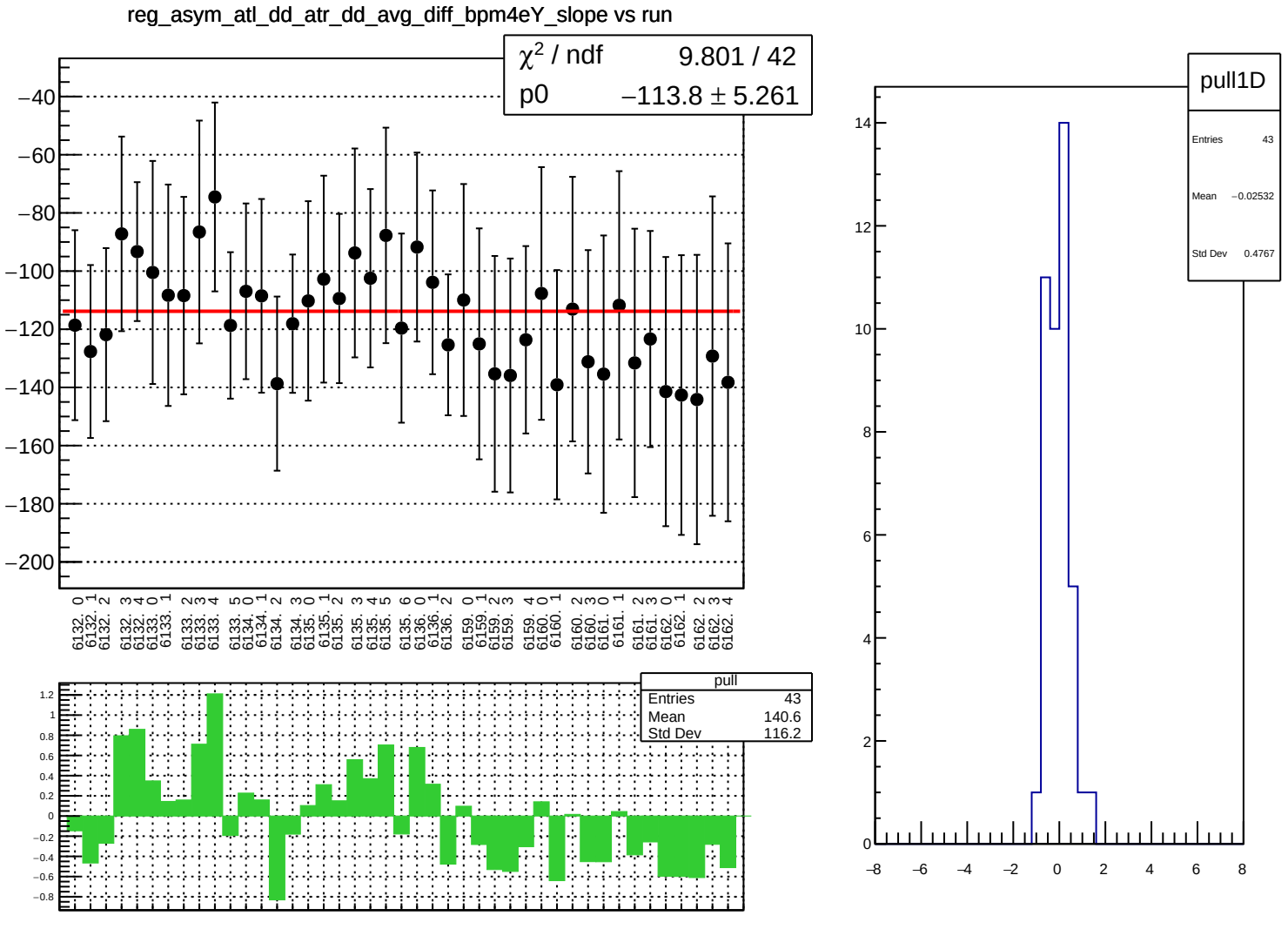

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 19.95 / 42
p0 237.2 ± 7.439
350
300
250
200
150
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 122.5
Std Dev 98.87
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.04458
Std Dev 0.6797
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

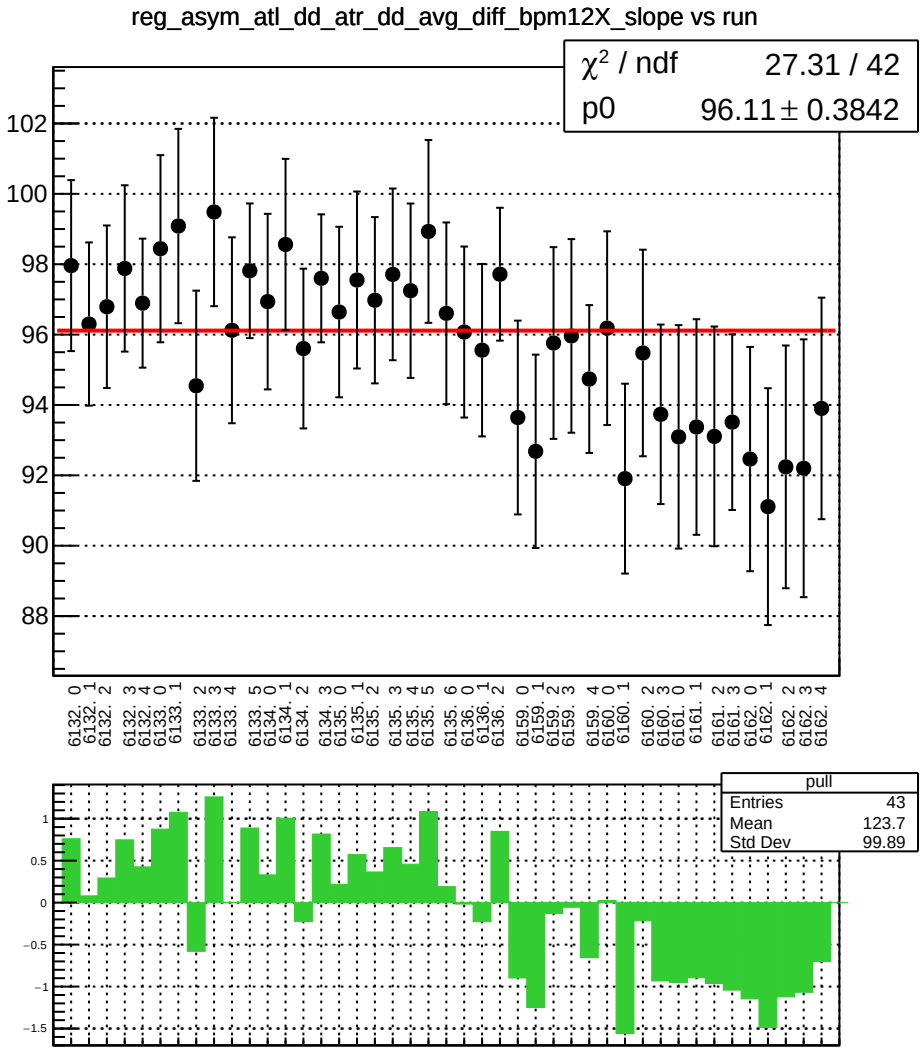

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.28 / 42
p0 36.63 ± 4.955
pull
Entries 43
Mean 246
Std Dev 221.6

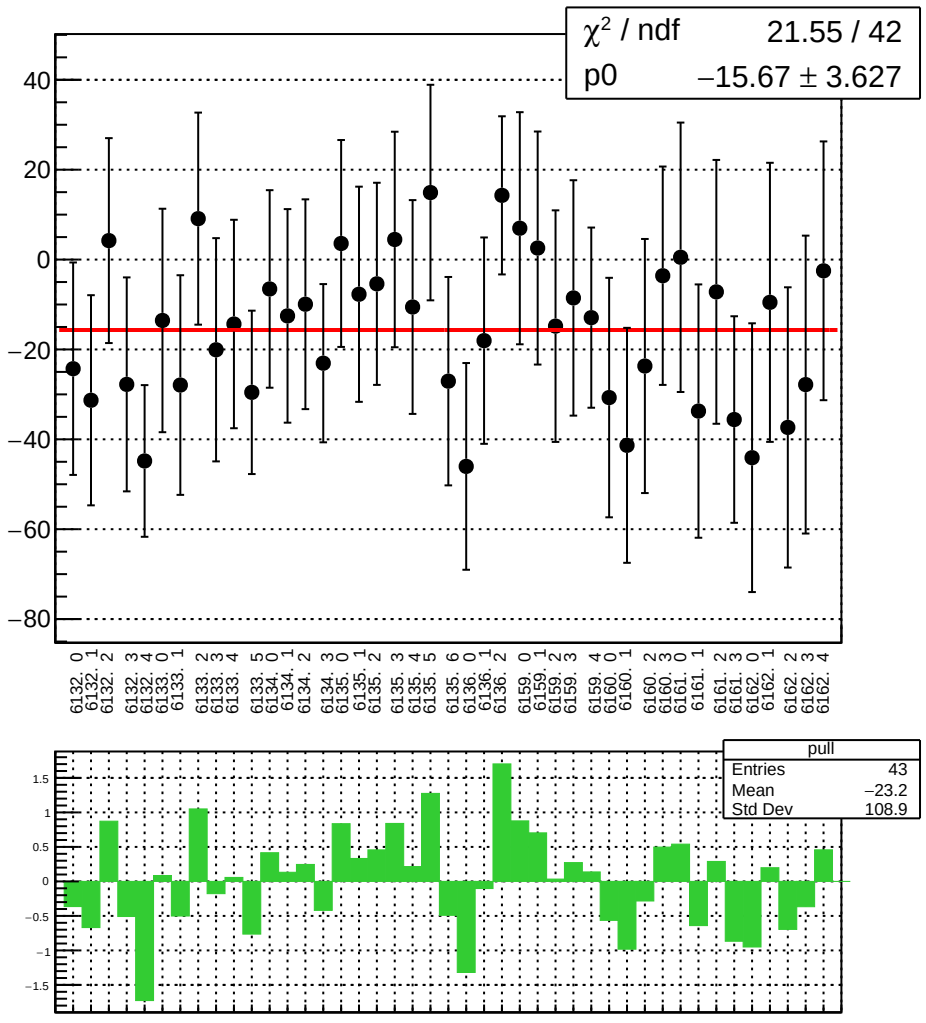

pull1D
Entries 43
Mean 0.009919
Std Dev 0.4387

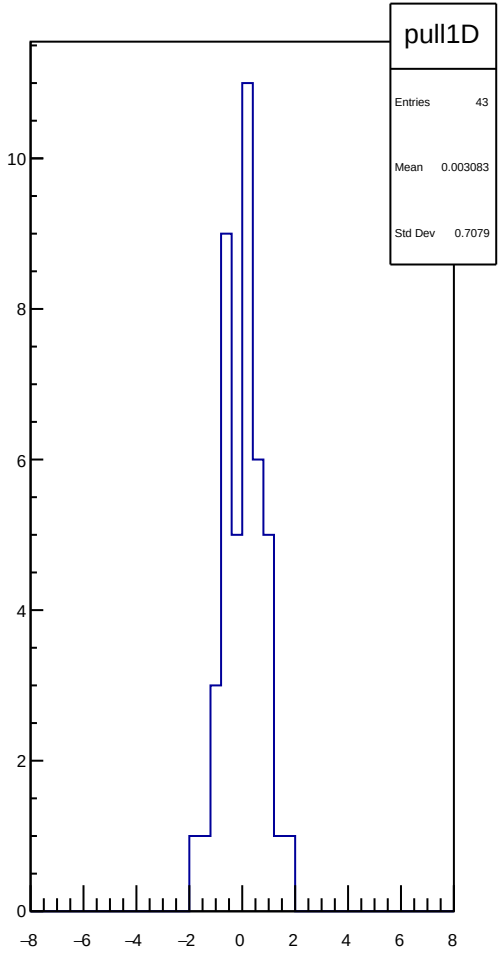

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.11 / 42
p0 −313.2 ± 8.662
pull
Entries 43
Mean 114
Std Dev 90.07

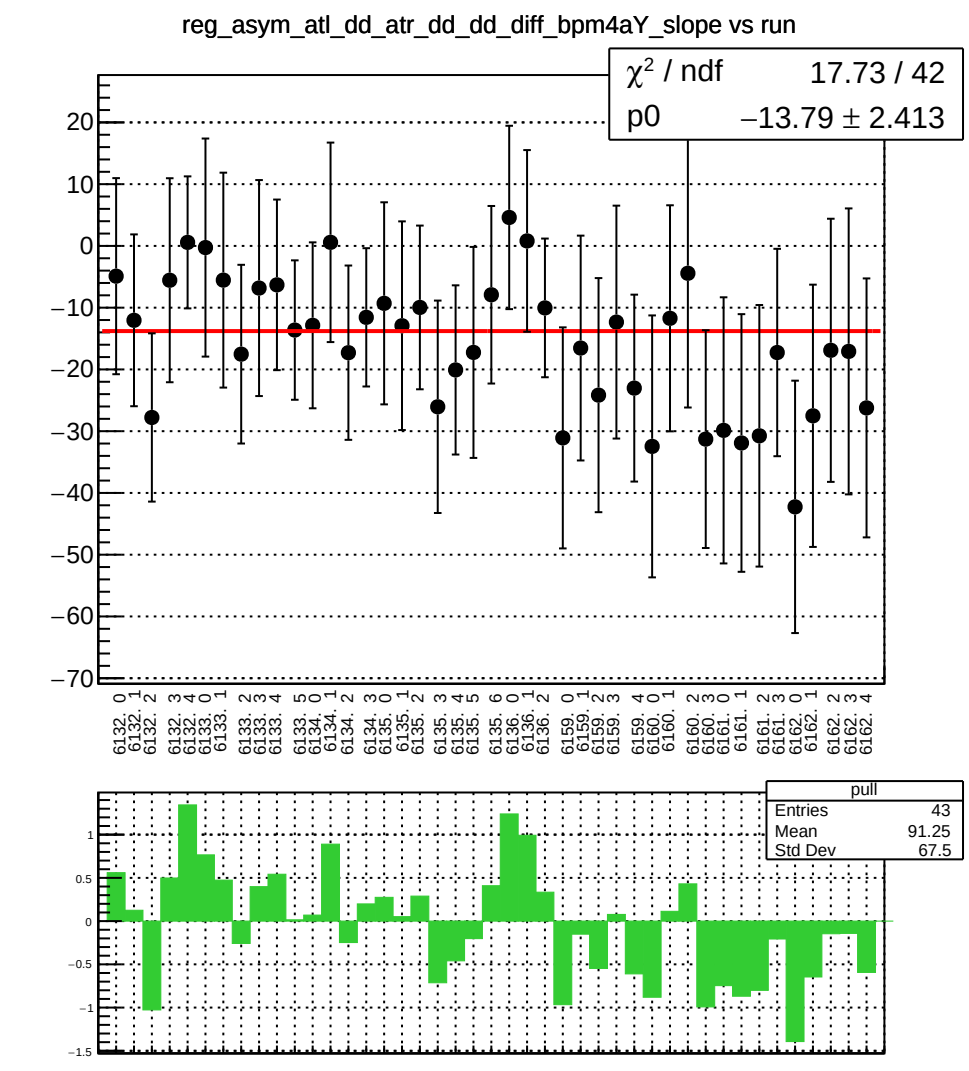

pull1D
Entries 43
Mean −0.04333
Std Dev 0.6292

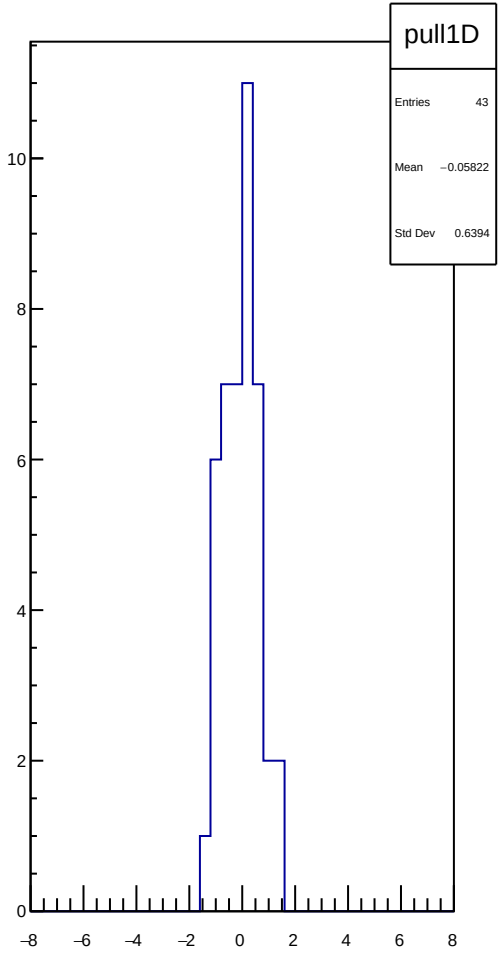

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.801 / 42
p0 −113.8 ± 5.261
−40
−60
−80
−100
−120
−140
−160
−180
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 140.6
Std Dev 116.2
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean −0.02532
Std Dev 0.4767
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

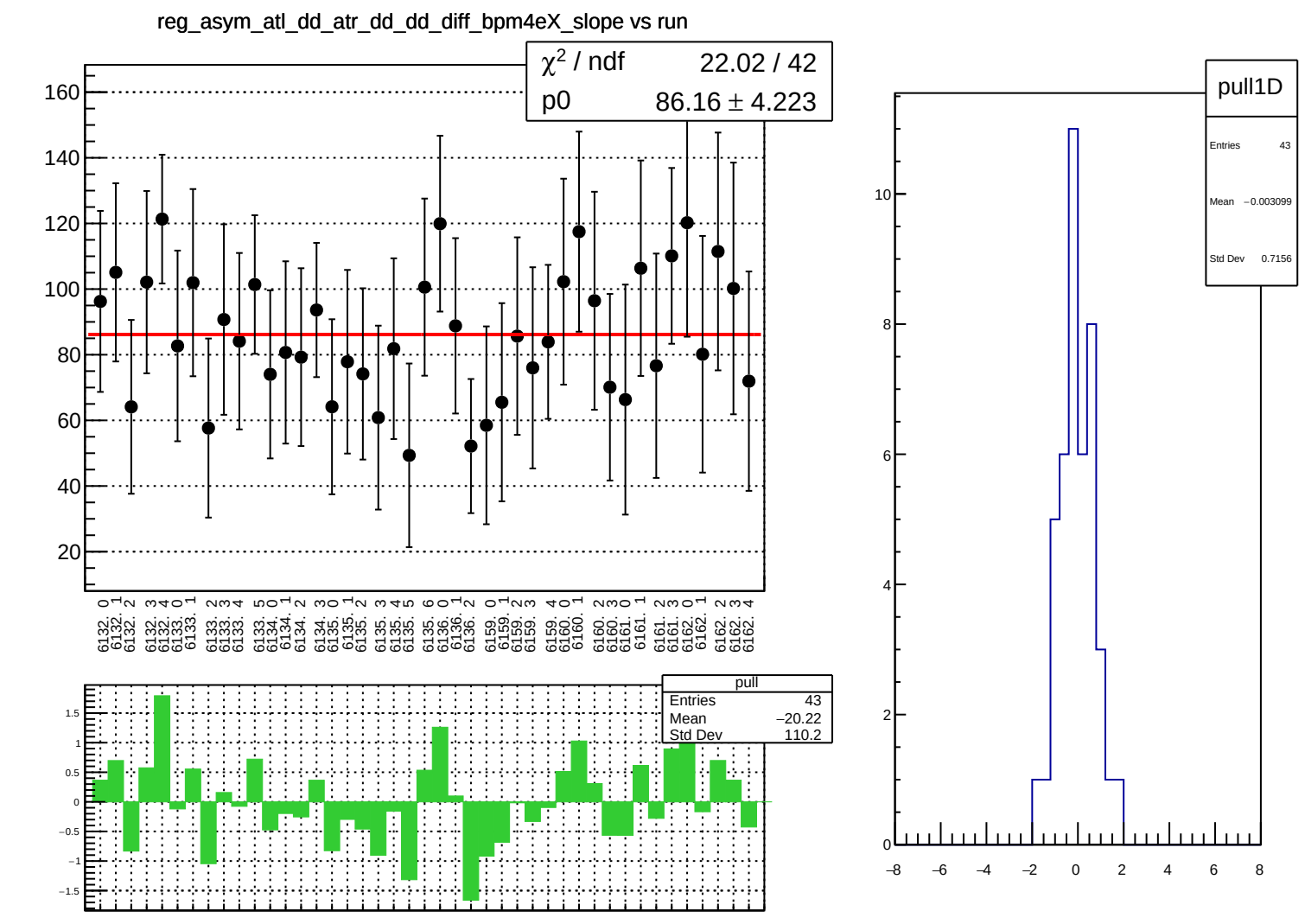

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 27.31 / 42
p0 96.11 ± 0.3842
102
100
98
96
94
92
90
88
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 123.7
Std Dev 99.89
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.07294
Std Dev 0.7936
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

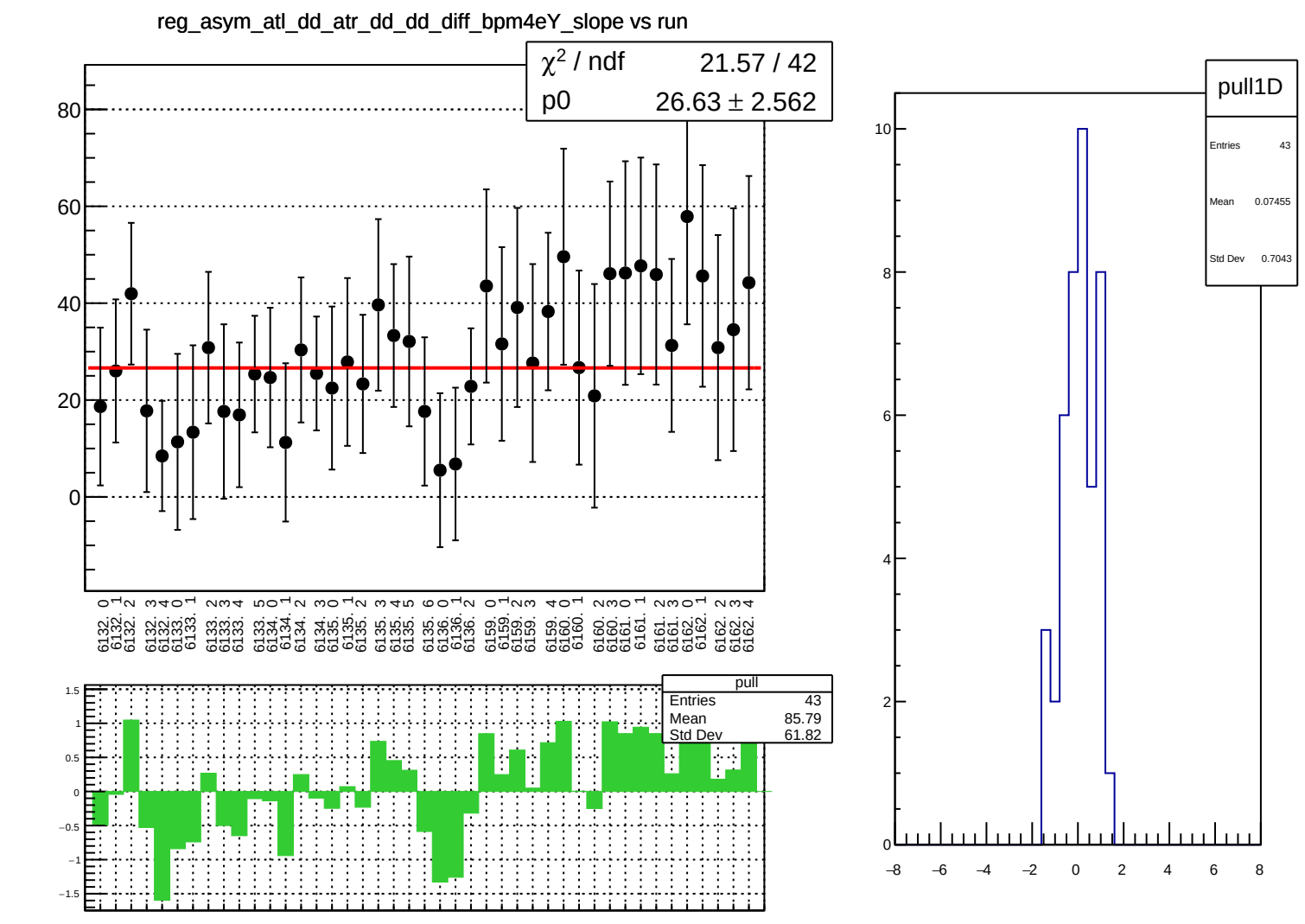

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 21.55 / 42
p0 −15.67 ± 3.627
pull
Entries 43
Mean −23.2
Std Dev 108.9

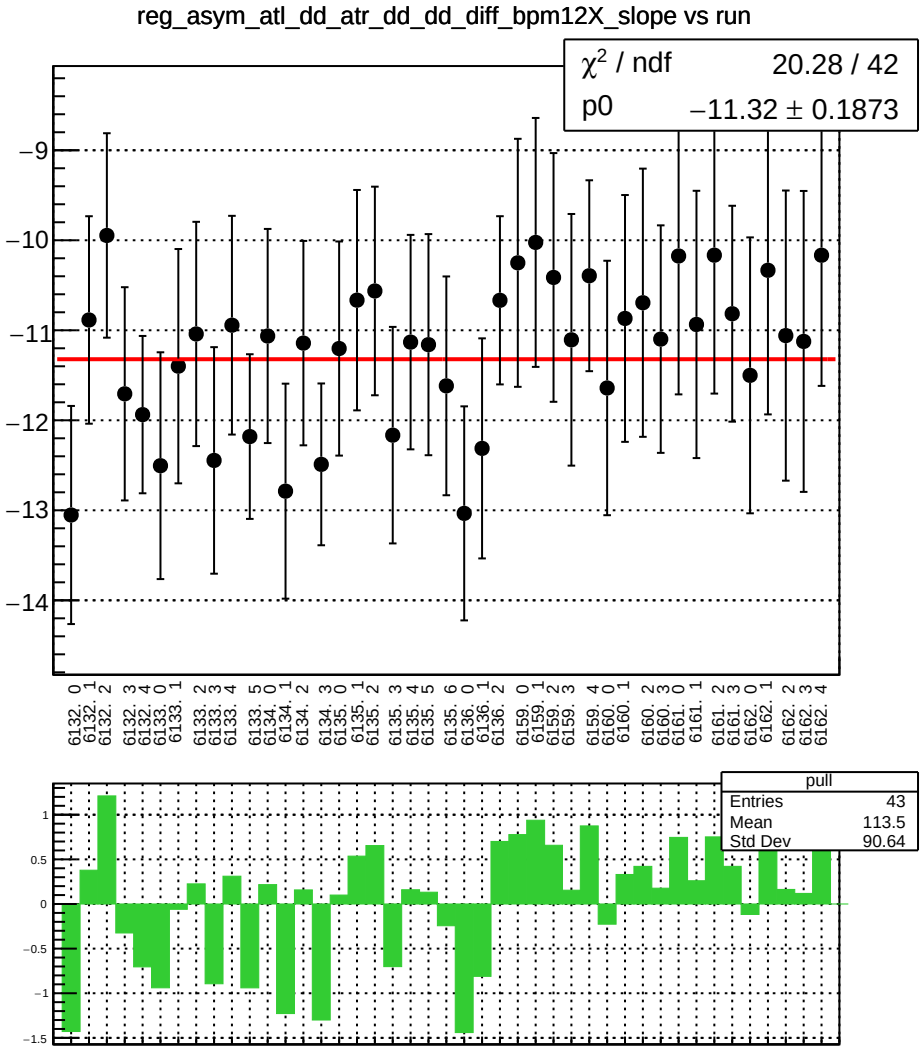

pull1D
Entries 43
Mean 0.003083
Std Dev 0.7079

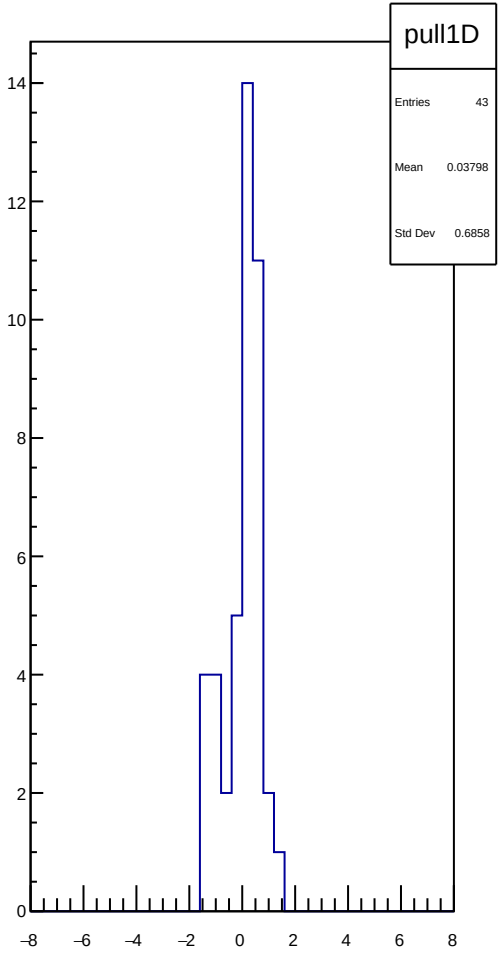

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.73 / 42
p0 −13.79 ± 2.413
pull
Entries 43
Mean 91.25
Std Dev 67.5

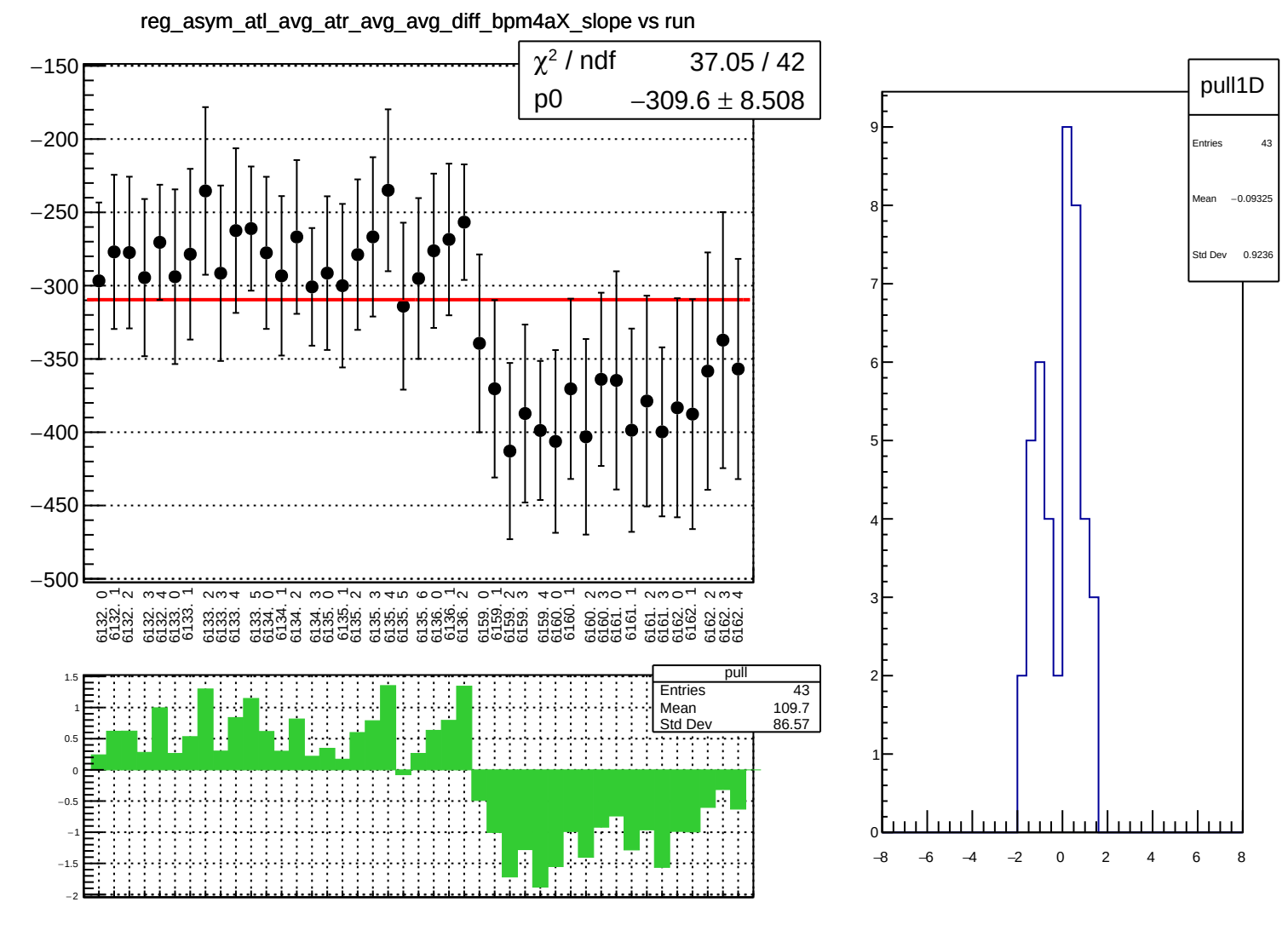

pull1D
Entries 43
Mean −0.05822
Std Dev 0.6394

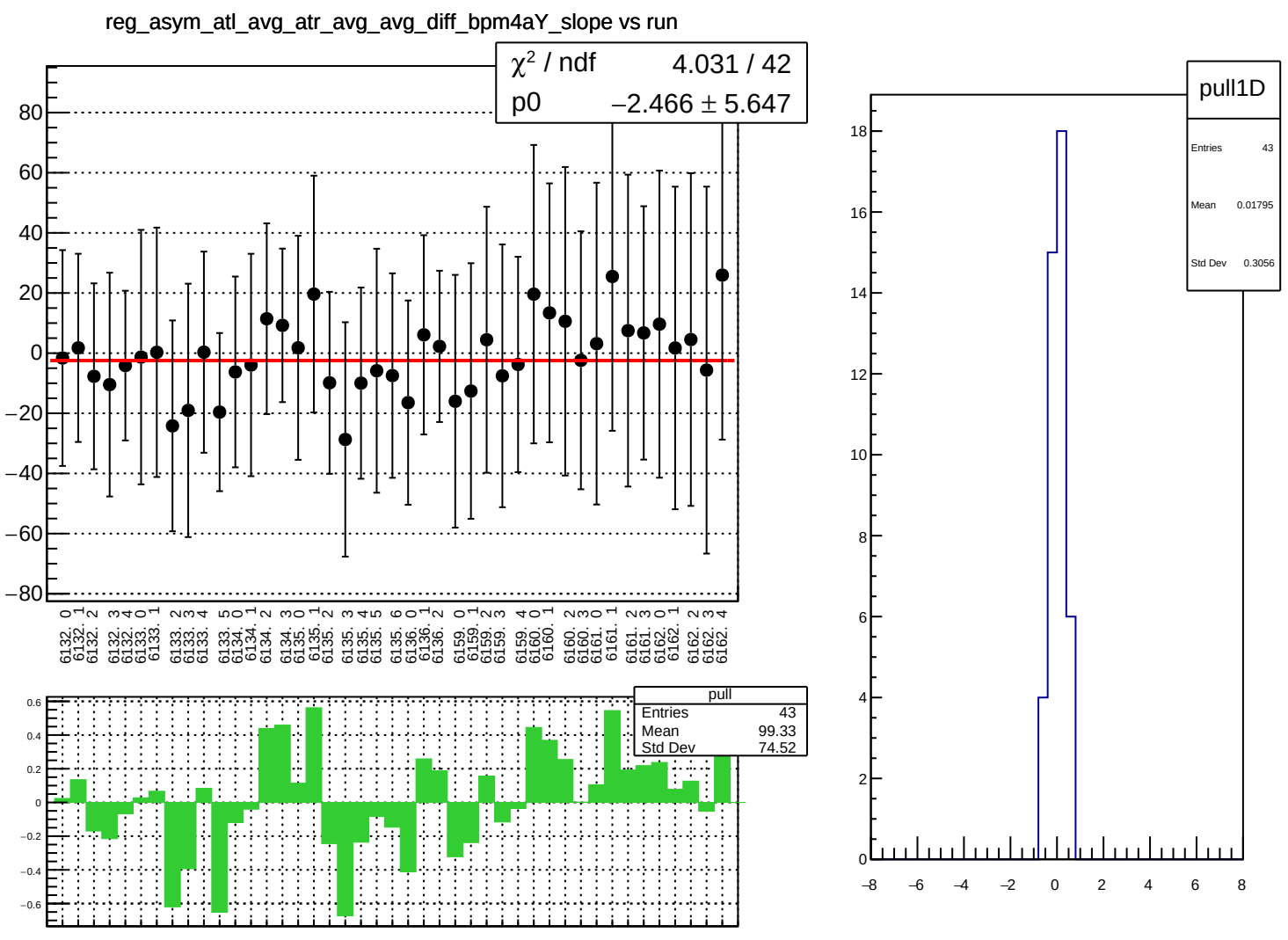

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.02 / 42
p0 86.16 ± 4.223
160
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −20.22
Std Dev 110.2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.003099
Std Dev 0.7156
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

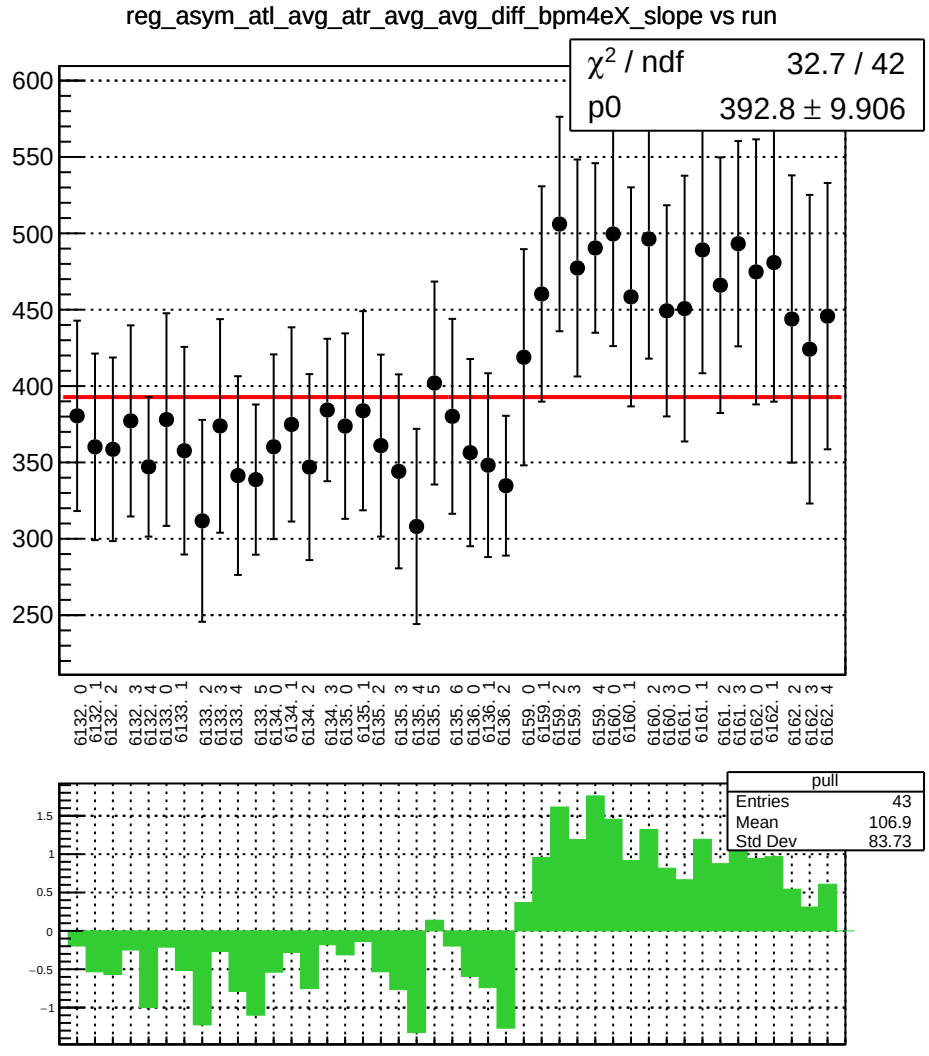

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.57 / 42
p0 26.63 ± 2.562
pull
Entries 43
Mean 85.79
Std Dev 61.82
pull1D
Entries 43
Mean 0.07455
Std Dev 0.7043

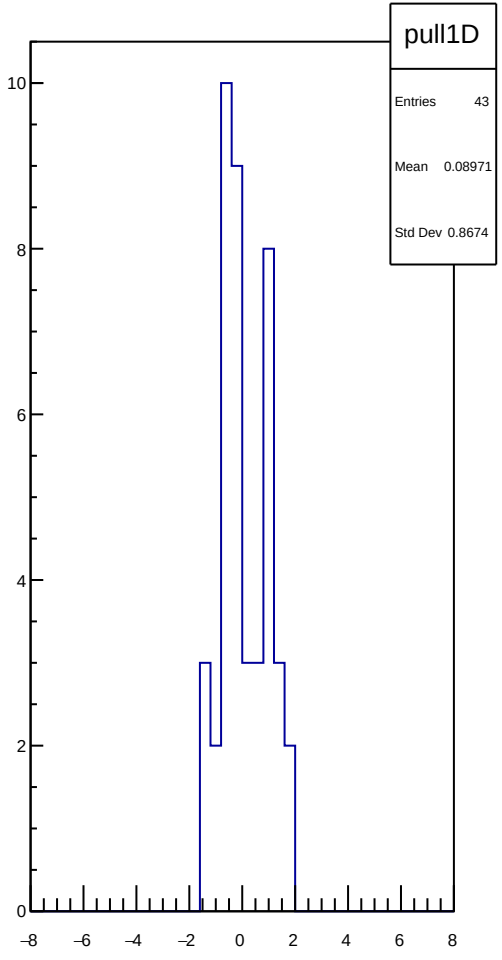

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 20.28 / 42
p0 −11.32 ± 0.1873
pull
Entries 43
Mean 113.5
Std Dev 90.64

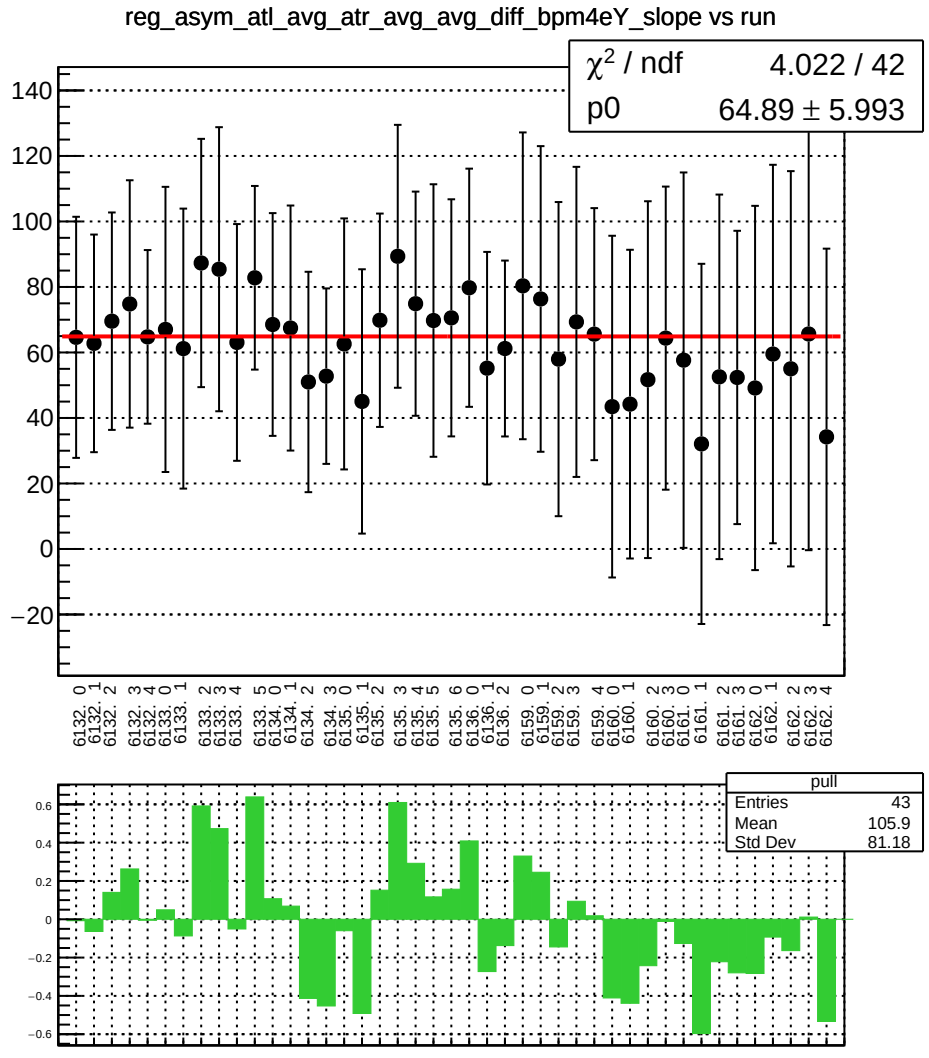

pull1D
Entries 43
Mean 0.03798
Std Dev 0.6858

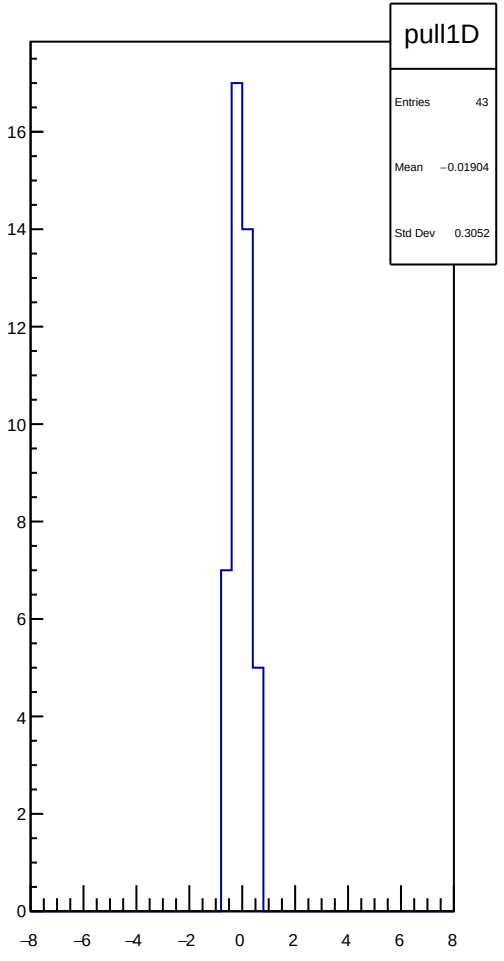

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aX_slope vs run
χ² / ndf 37.05 / 42
p0 −309.6 ± 8.508
pull
Entries 43
Mean 109.7
Std Dev 86.57
pull1D
Entries 43
Mean −0.09325
Std Dev 0.9236

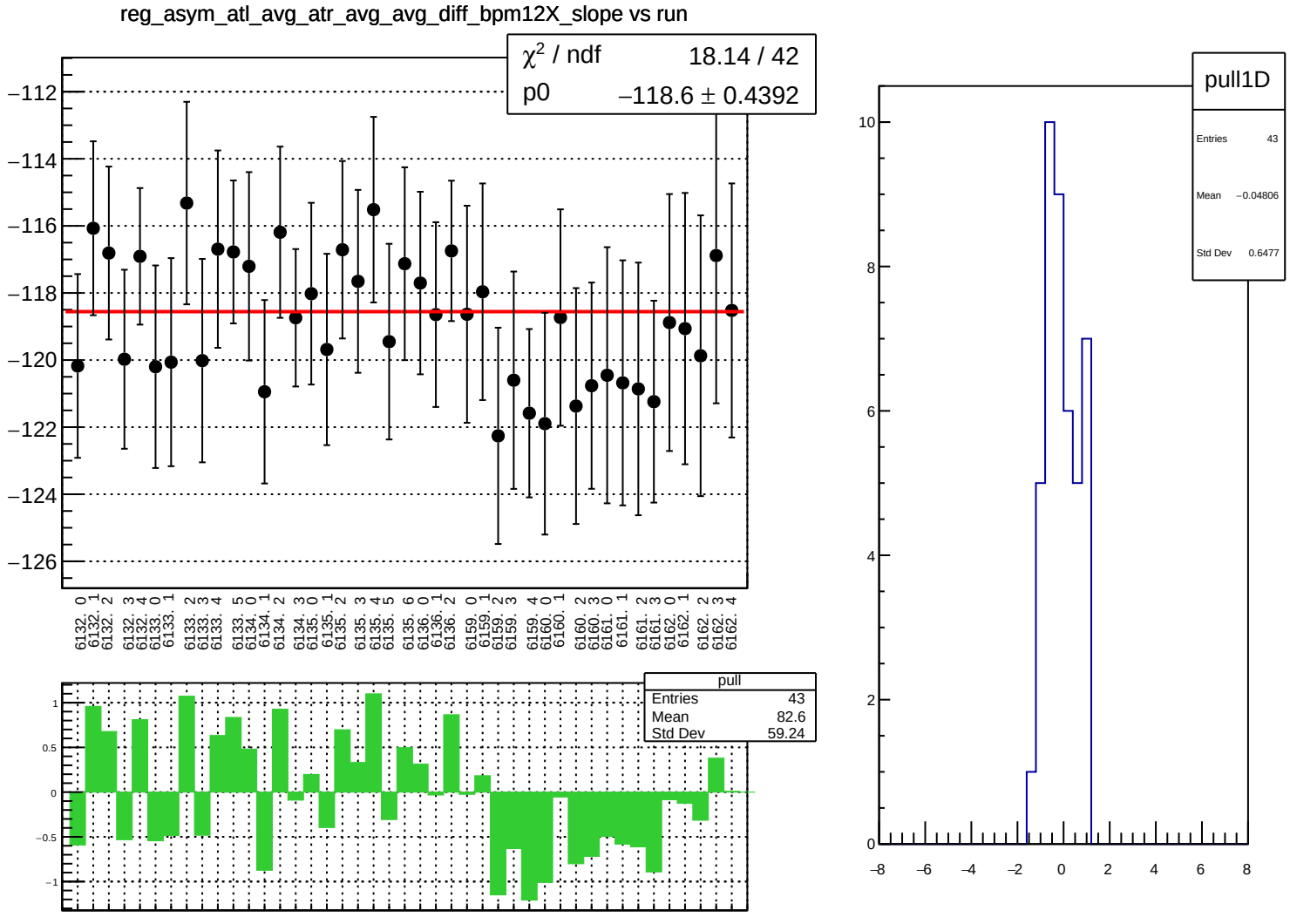

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.031 / 42
p0 −2.466 ± 5.647
pull
Entries 43
Mean 99.33
Std Dev 74.52
pull1D
Entries 43
Mean 0.01795
Std Dev 0.3056

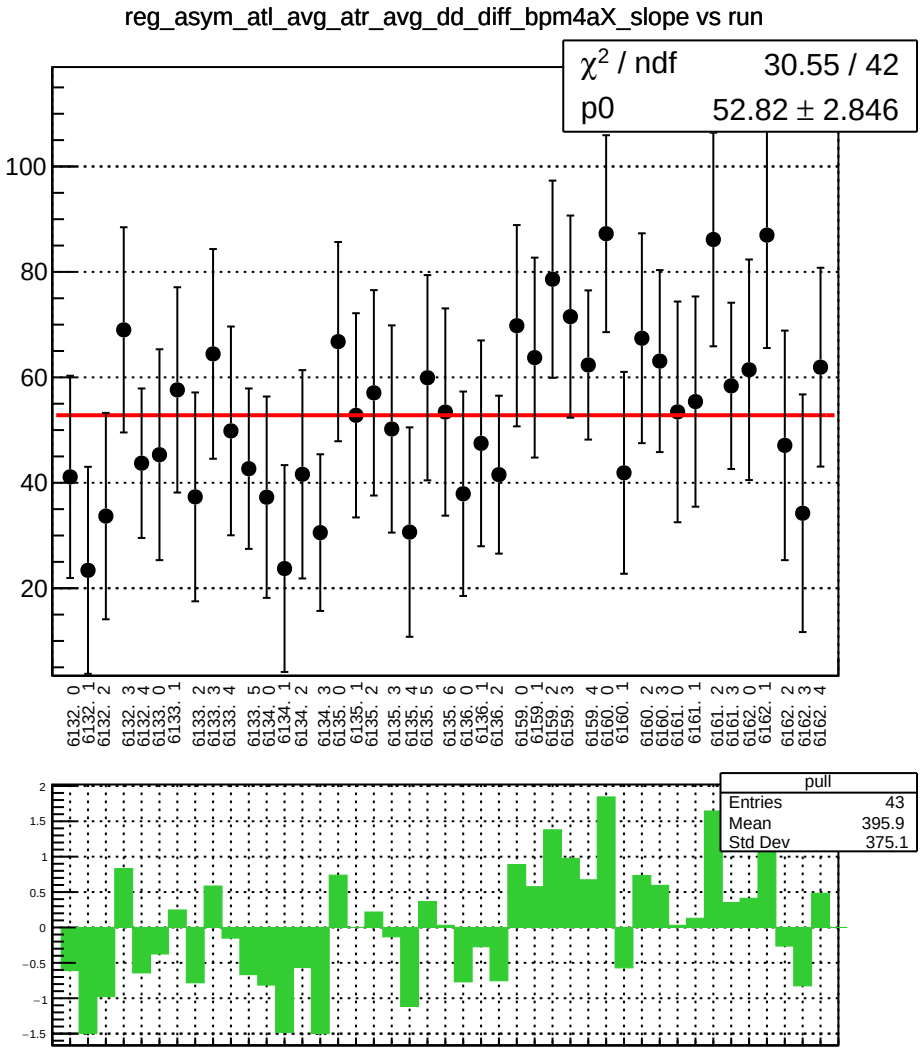

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 32.7 / 42
p0 392.8 ± 9.906
pull
Entries 43
Mean 106.9
Std Dev 83.73

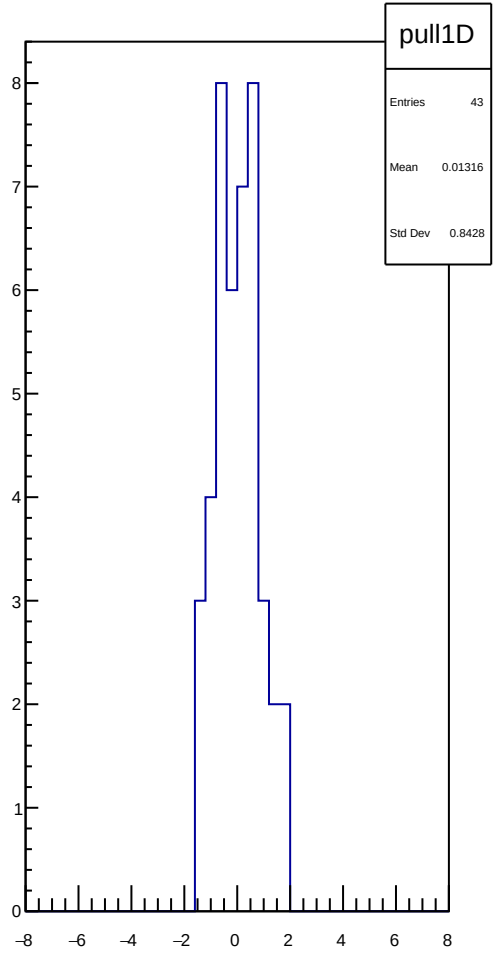

pull1D
Entries 43
Mean 0.08971
Std Dev 0.8674

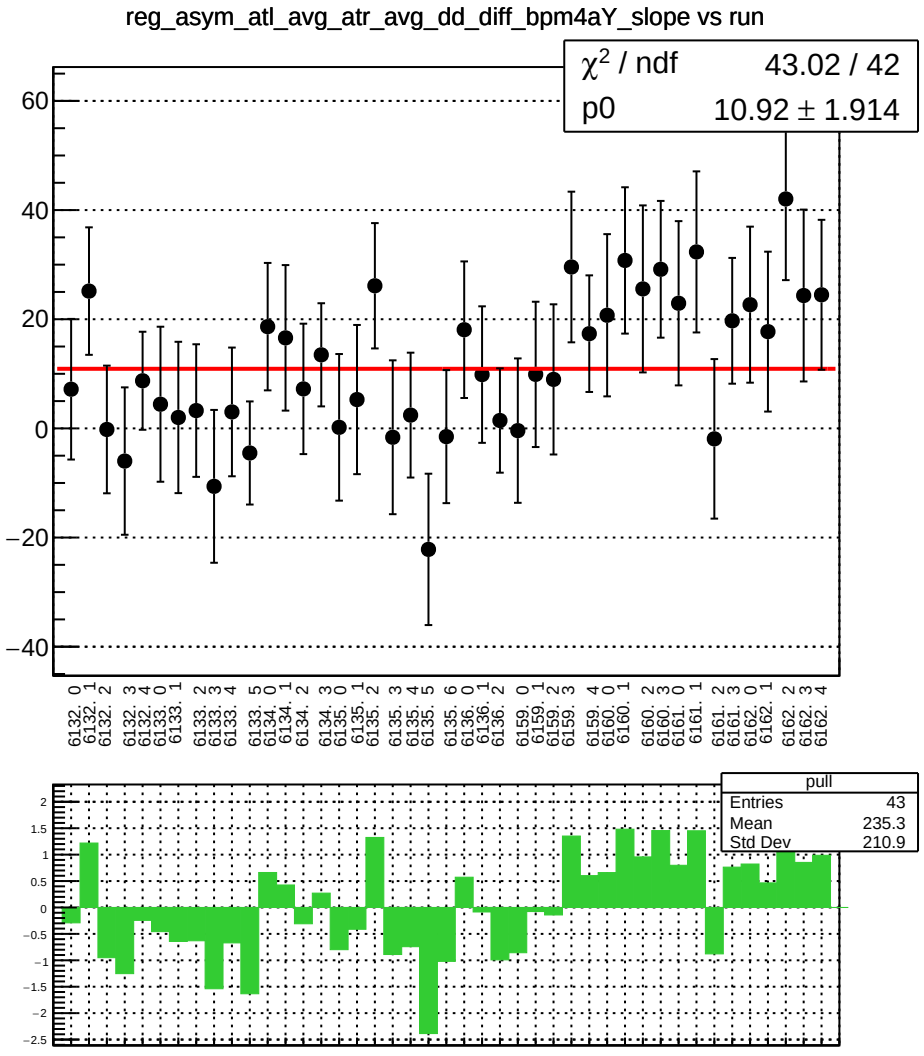

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.022 / 42
p0 64.89 ± 5.993
pull
Entries 43
Mean 105.9
Std Dev 81.18

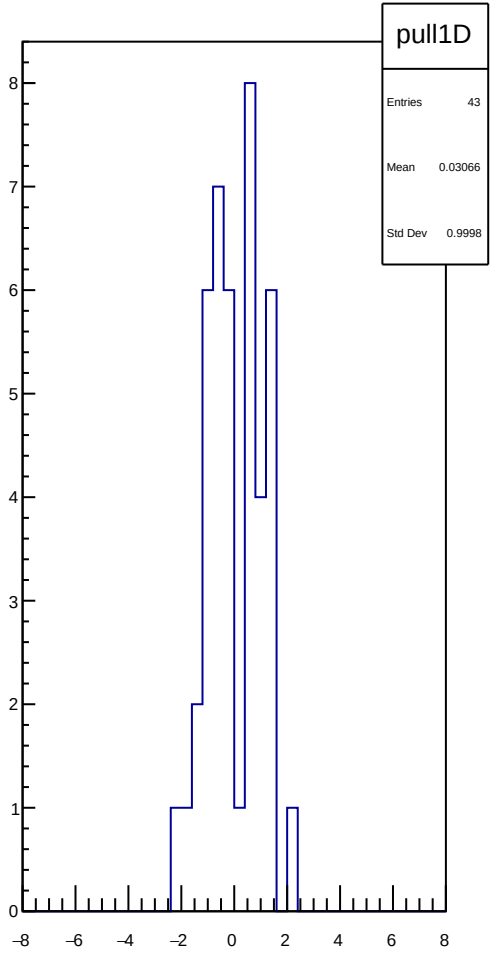

pull1D
Entries 43
Mean −0.01904
Std Dev 0.3052

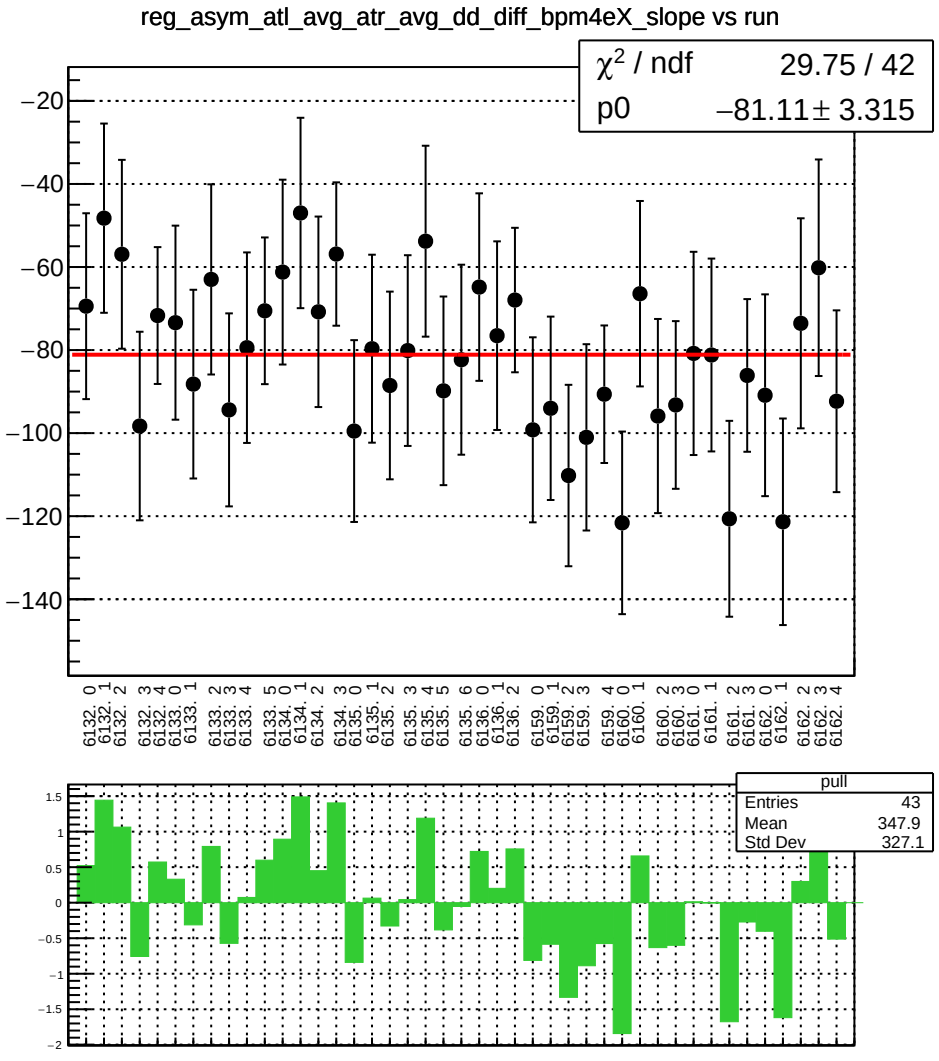

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 18.14 / 42
p0 −118.6 ± 0.4392
−112
−114
−116
−118
−120
−122
−124
−126
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 82.6
Std Dev 59.24
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.04806
Std Dev 0.6477
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

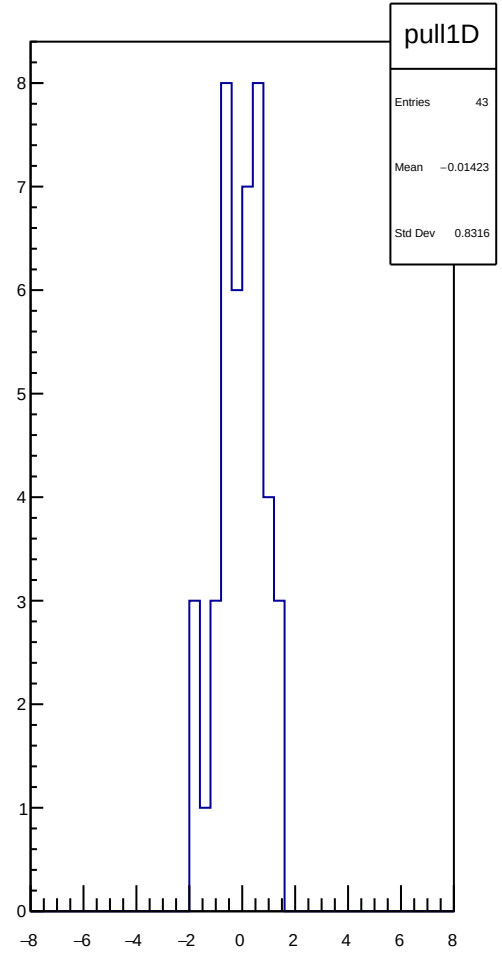

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aX_slope vs run
χ² / ndf 30.55 / 42
p0 52.82 ± 2.846
pull
Entries 43
Mean 395.9
Std Dev 375.1

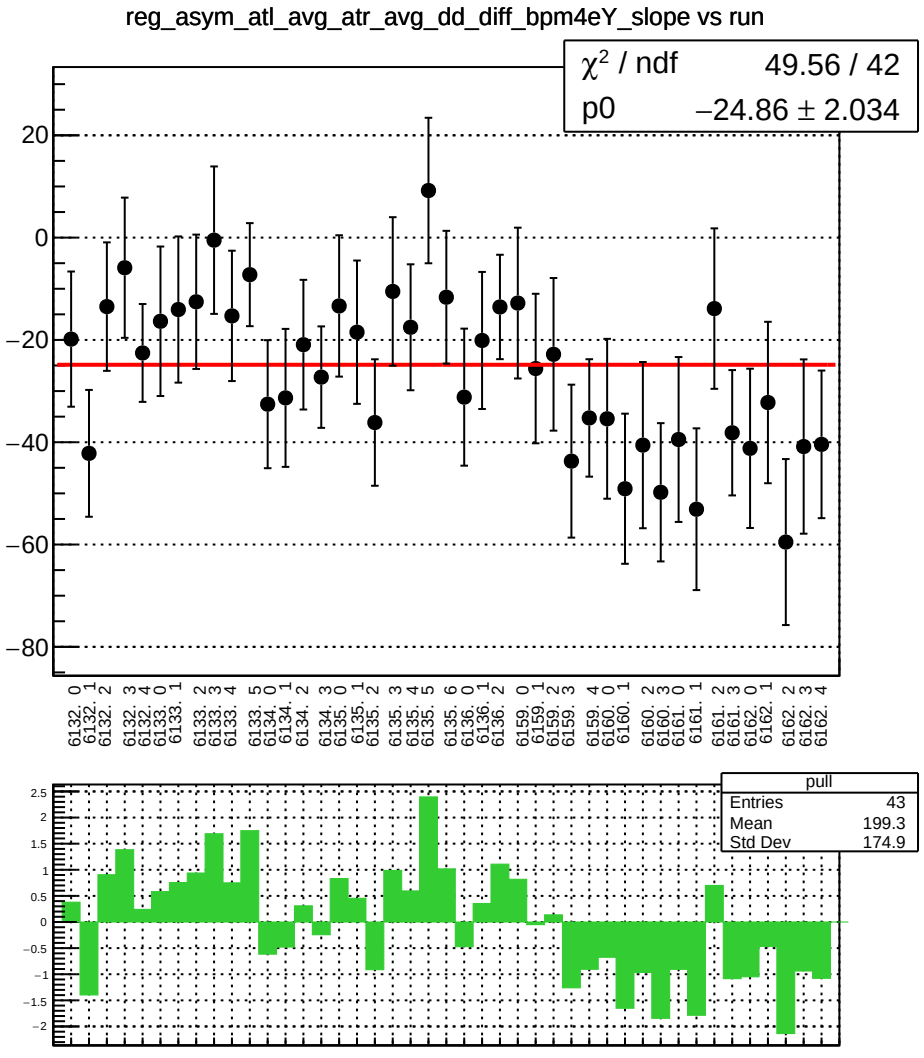

pull1D
Entries 43
Mean 0.01316
Std Dev 0.8428

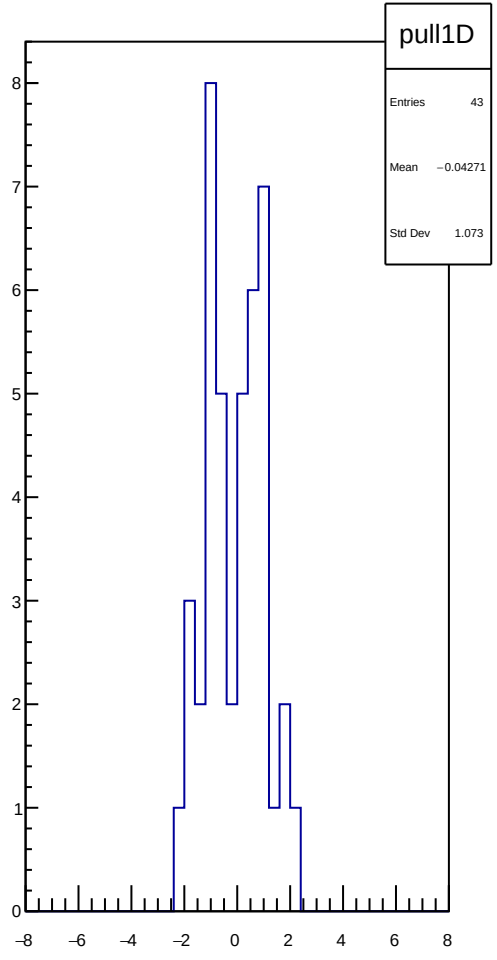

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 43.02 / 42
p0 10.92 ± 1.914
pull
Entries 43
Mean 235.3
Std Dev 210.9

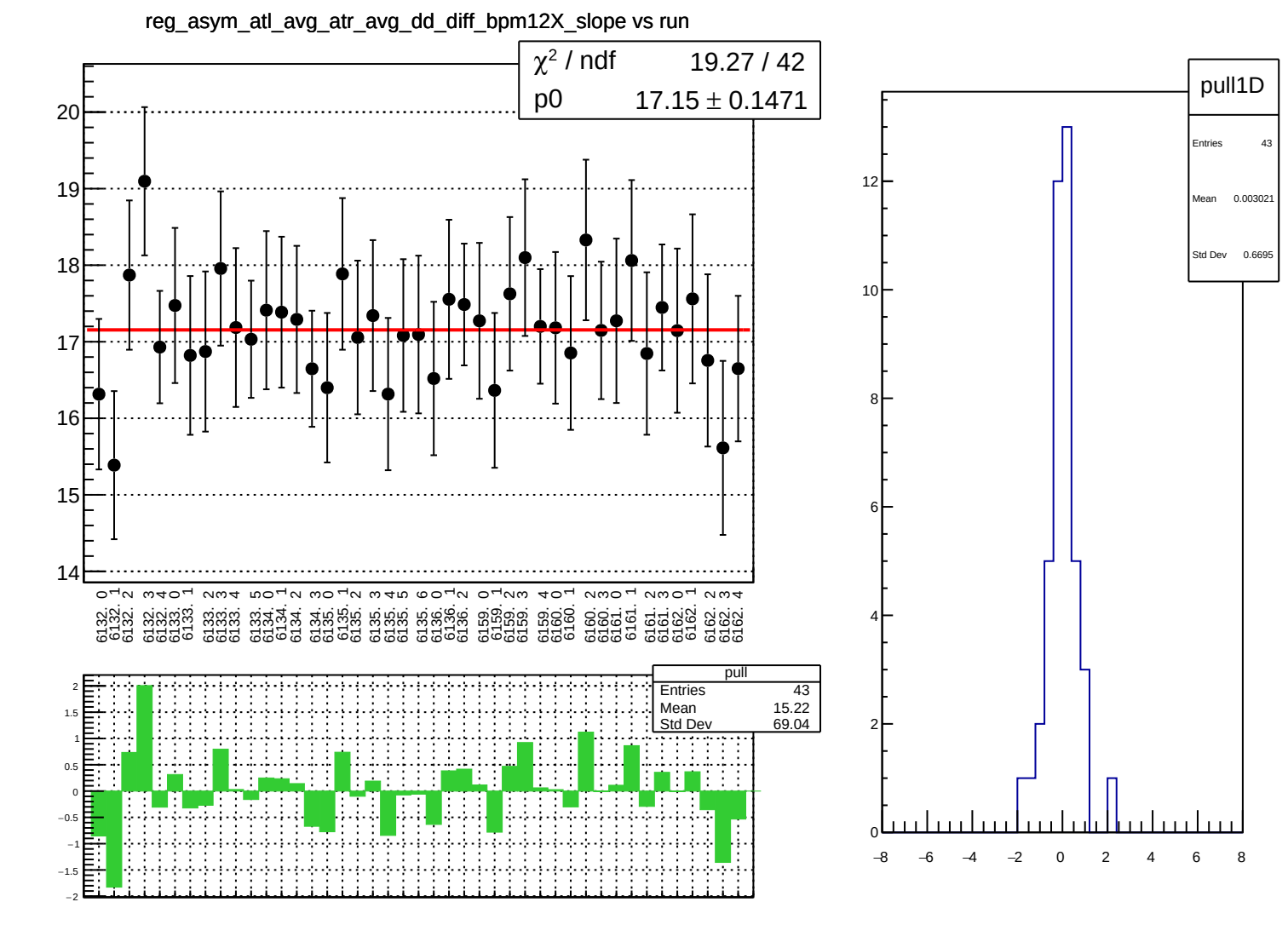

pull1D
Entries 43
Mean 0.03066
Std Dev 0.9998

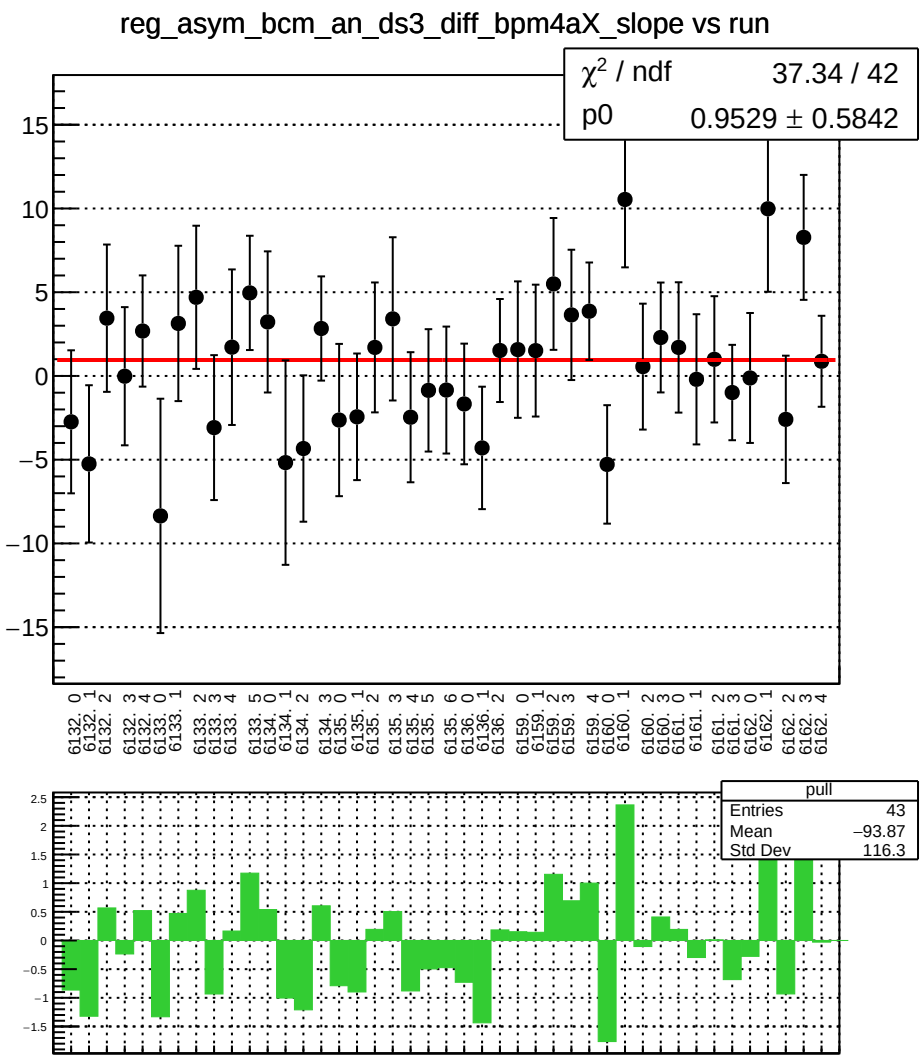

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.75 / 42
p0 −81.11 ± 3.315
−20
−40
−60
−80
−100
−120
−140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 347.9
Std Dev 327.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

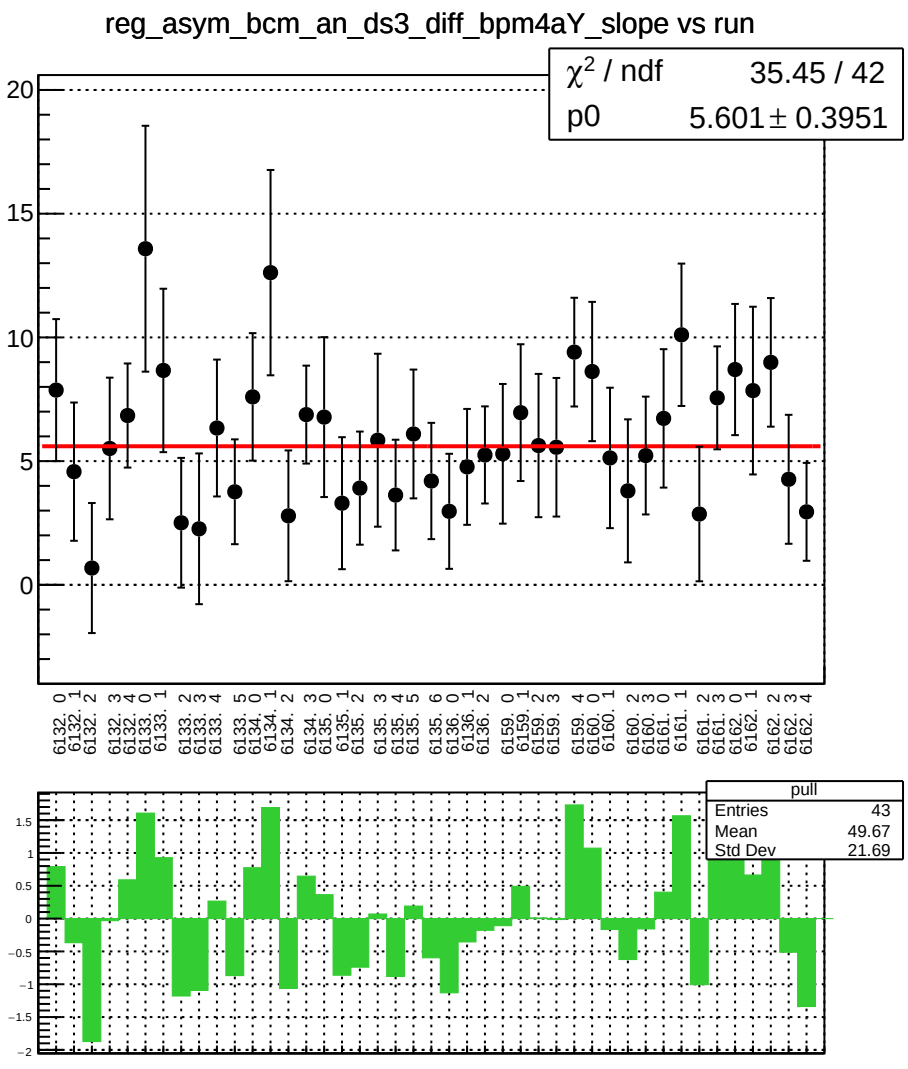

pull1D
Entries 43
Mean −0.01423
Std Dev 0.8316
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

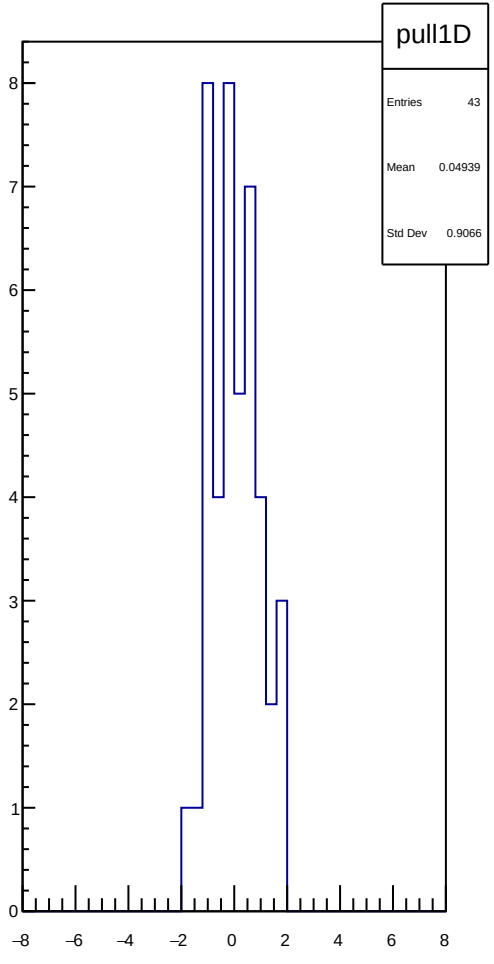

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 49.56 / 42
p0 −24.86 ± 2.034
pull
Entries 43
Mean 199.3
Std Dev 174.9

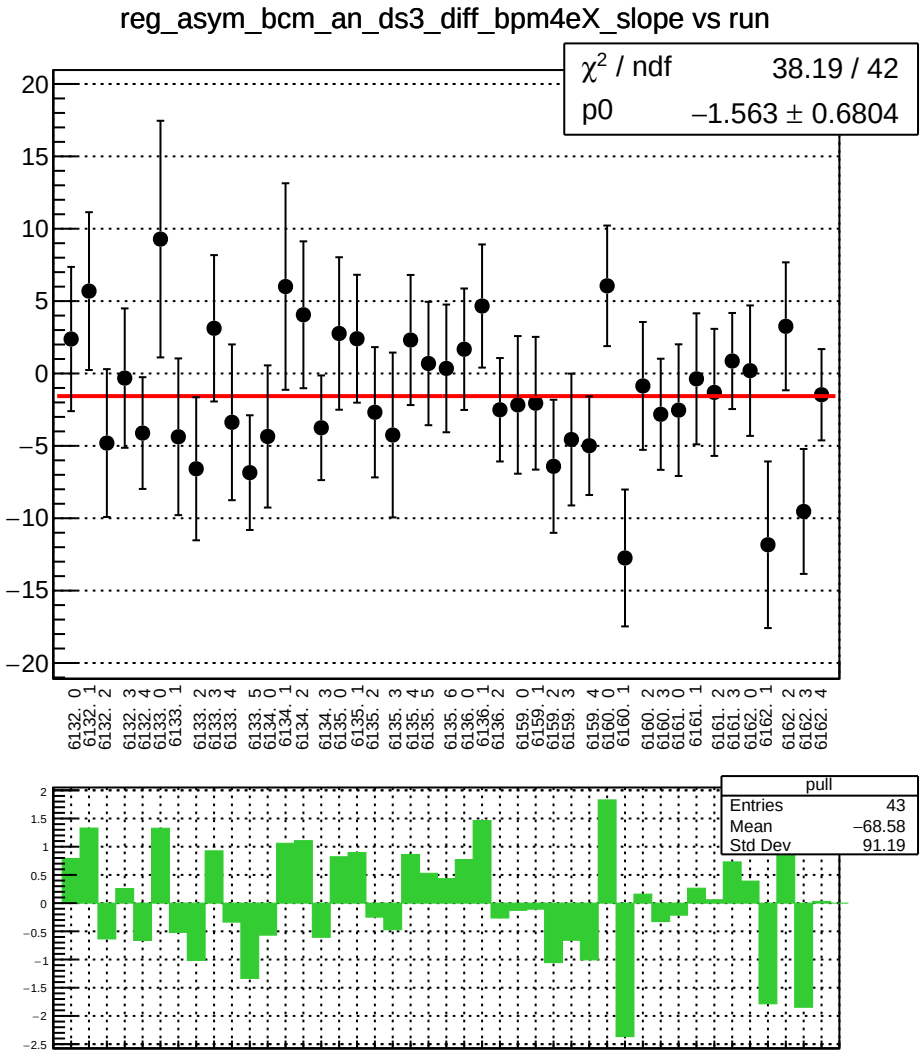

pull1D
Entries 43
Mean −0.04271
Std Dev 1.073

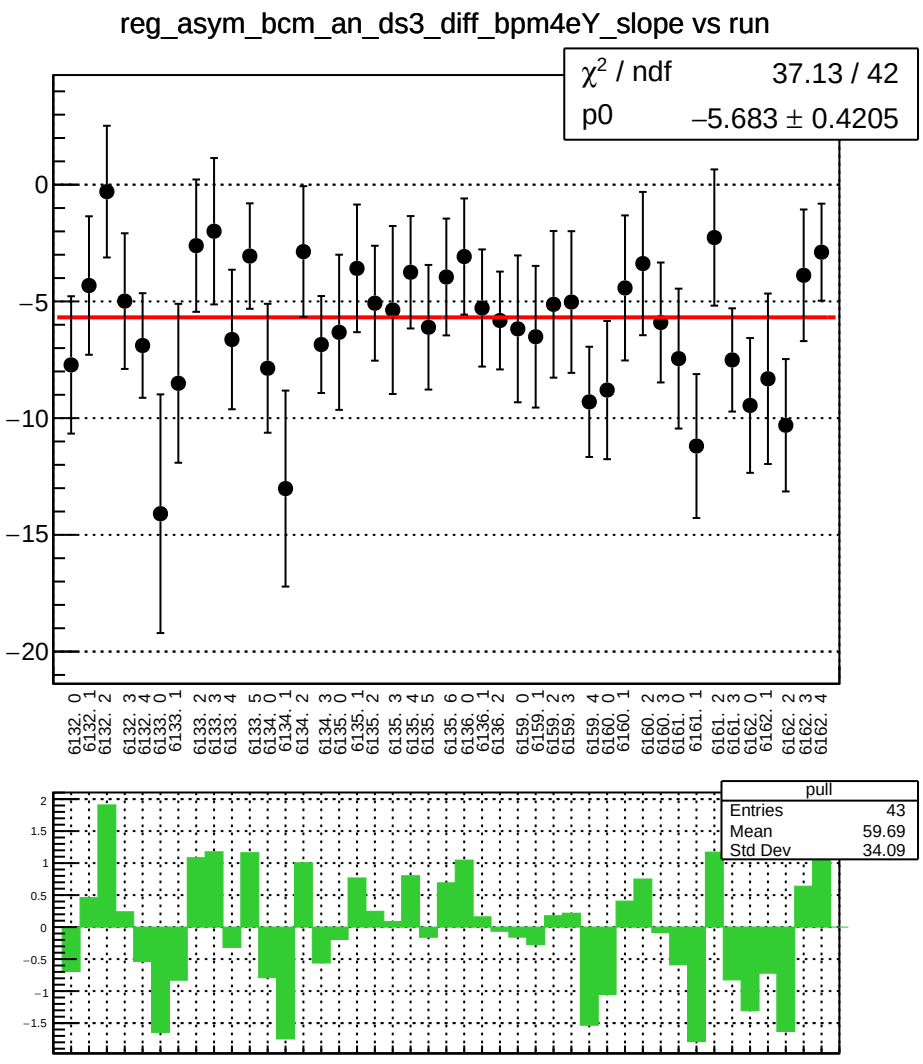

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 19.27 / 42
p0 17.15 ± 0.1471
pull
Entries 43
Mean 15.22
Std Dev 69.04
pull1D
Entries 43
Mean 0.003021
Std Dev 0.6695

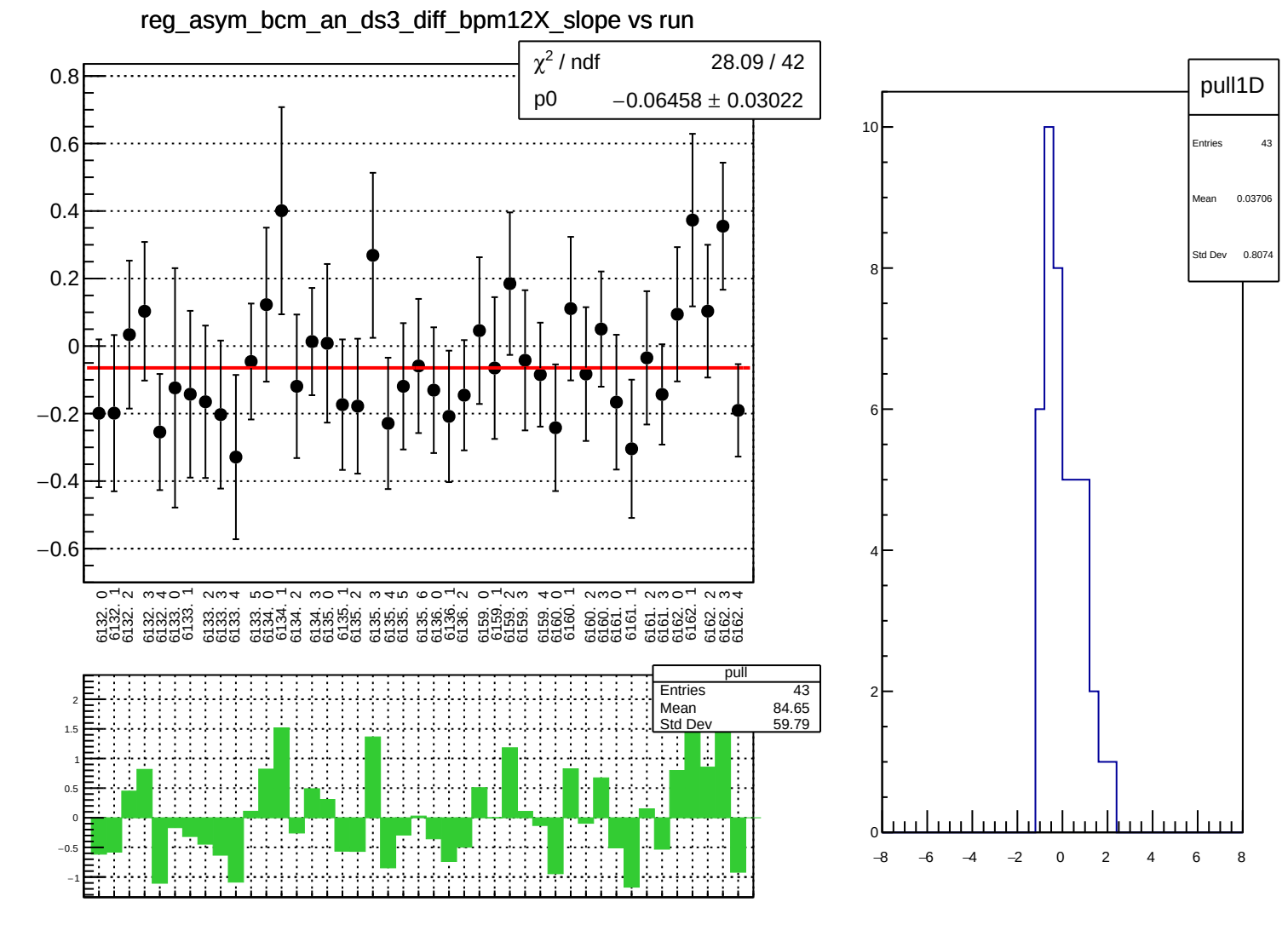

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 37.34 / 42
p0 0.9529 ± 0.5842
15
10
5
0
−5
−10
−15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean −93.87
Std Dev 116.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.02275
Std Dev 0.9316
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

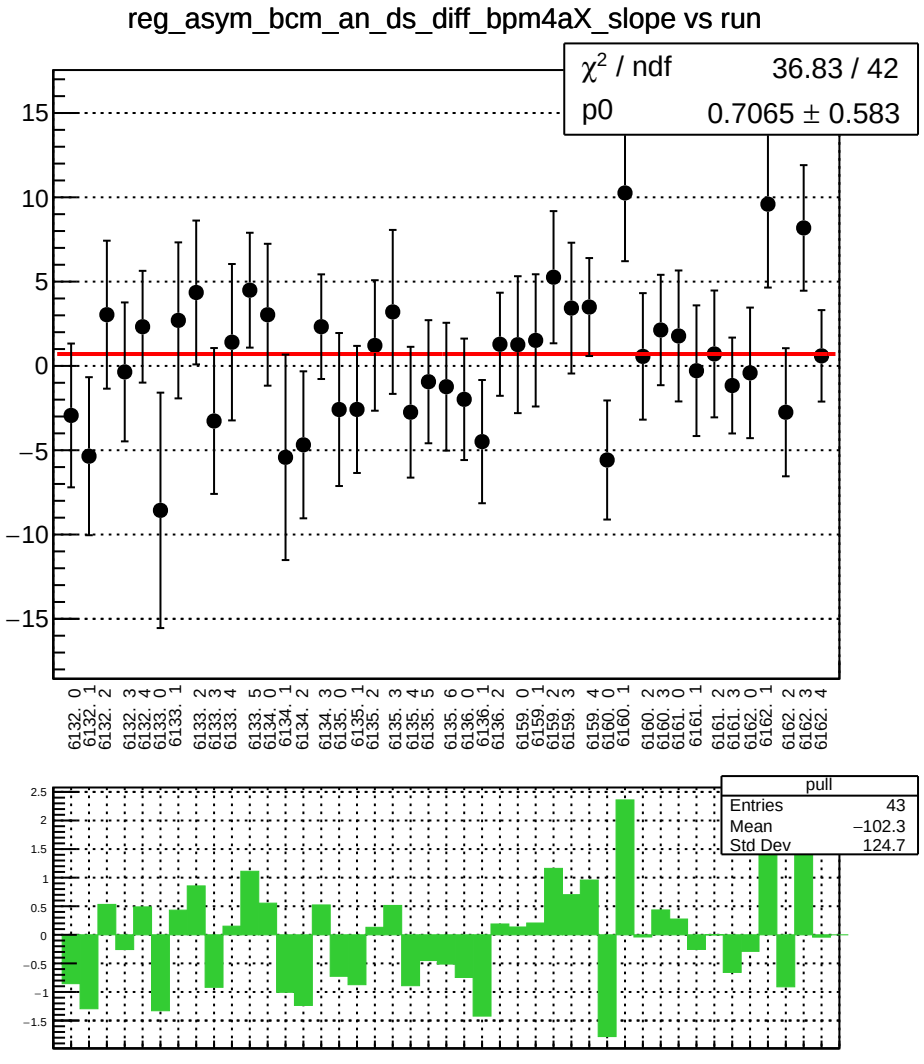

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 35.45 / 42
p0 5.601 ± 0.3951
pull
Entries 43
Mean 49.67
Std Dev 21.69

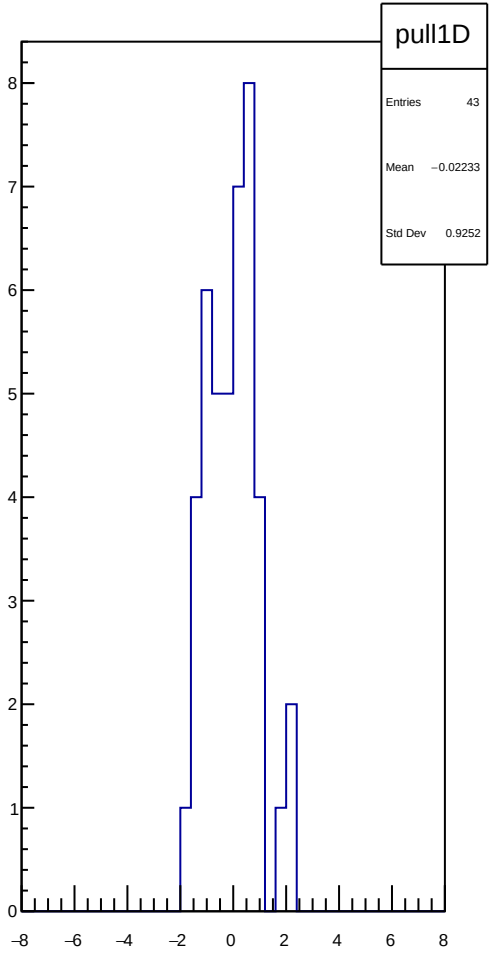

pull1D
Entries 43
Mean 0.04939
Std Dev 0.9066

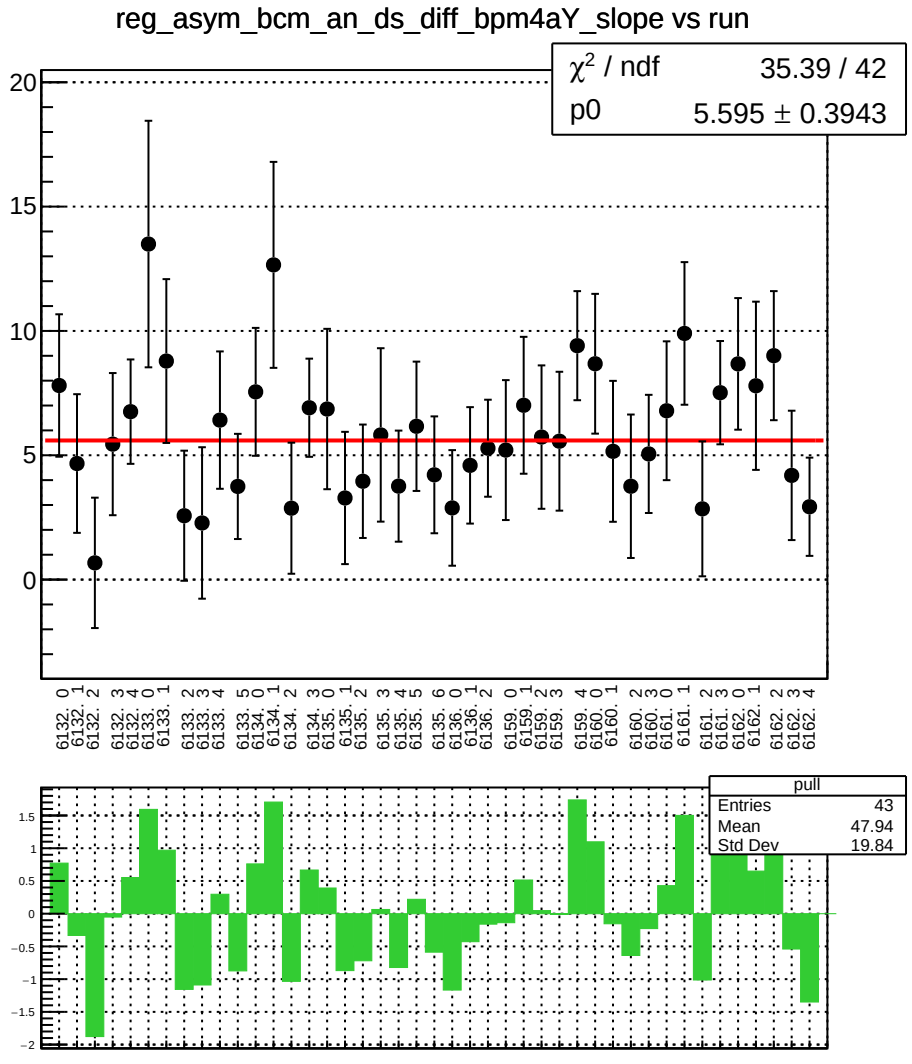

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 38.19 / 42
p0 −1.563 ± 0.6804
pull
Entries 43
Mean −68.58
Std Dev 91.19
pull1D
Entries 43
Mean 0.02296
Std Dev 0.9421

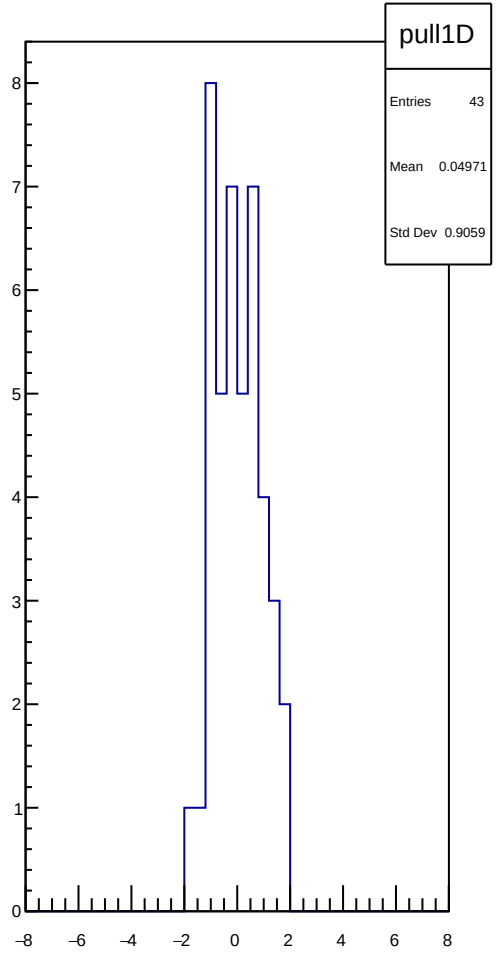

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 37.13 / 42
p0 −5.683 ± 0.4205
0
−5
−10
−15
−20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 59.69
Std Dev 34.09
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.04555
Std Dev 0.9281
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

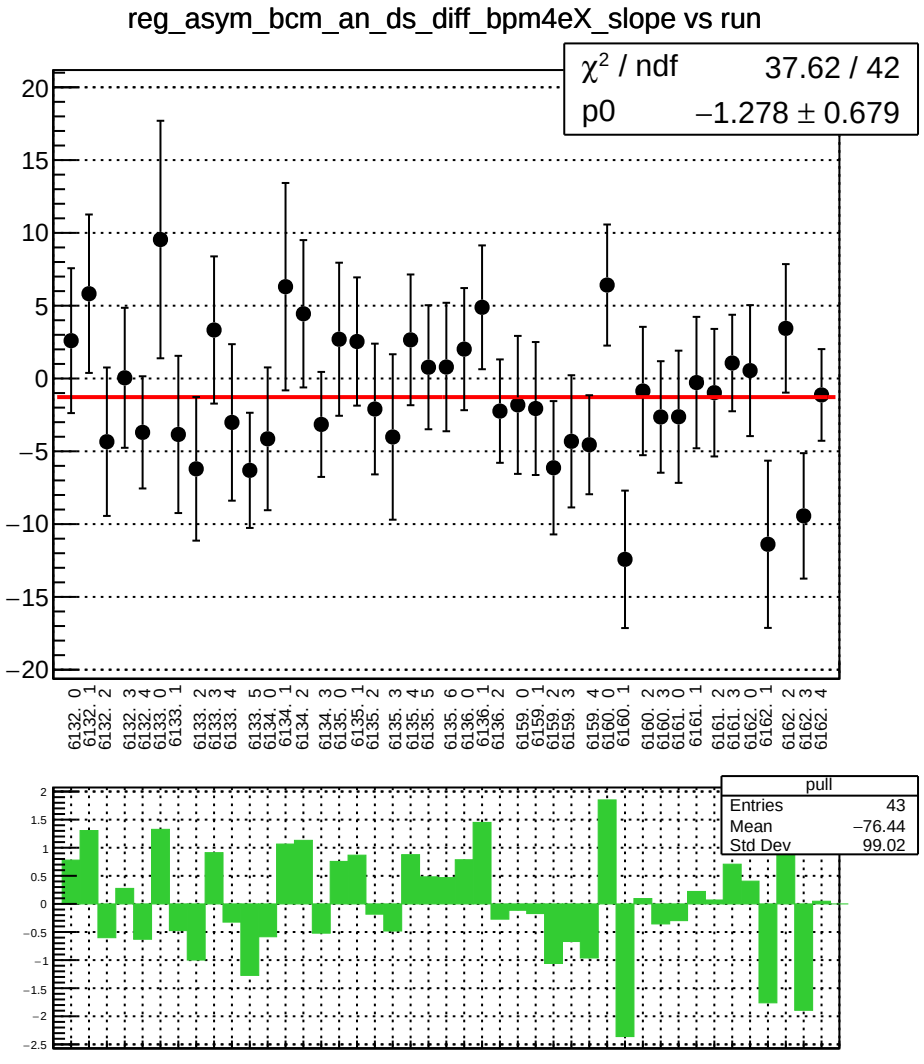

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 28.09 / 42
p0 −0.06458 ± 0.03022
pull
Entries 43
Mean 84.65
Std Dev 59.79
pull1D
Entries 43
Mean 0.03706
Std Dev 0.8074

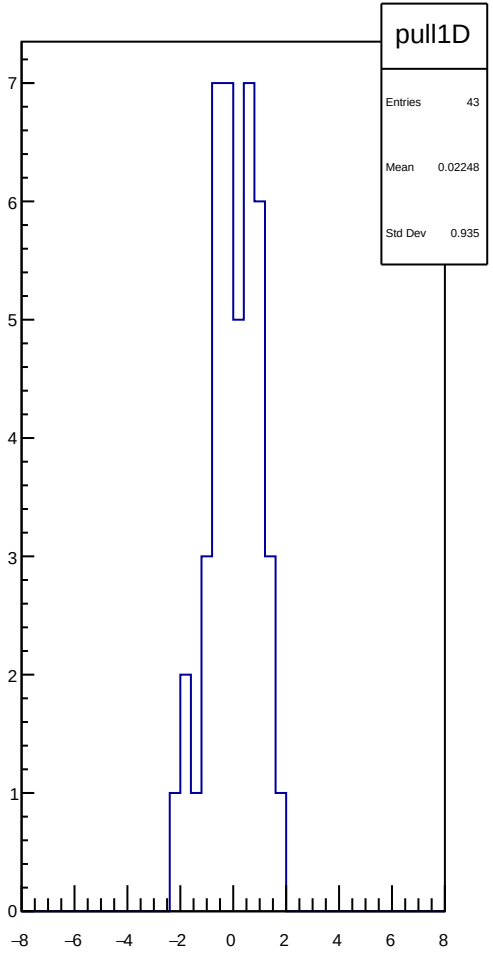

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 36.83 / 42
p0 0.7065 ± 0.583
pull
Entries 43
Mean −102.3
Std Dev 124.7

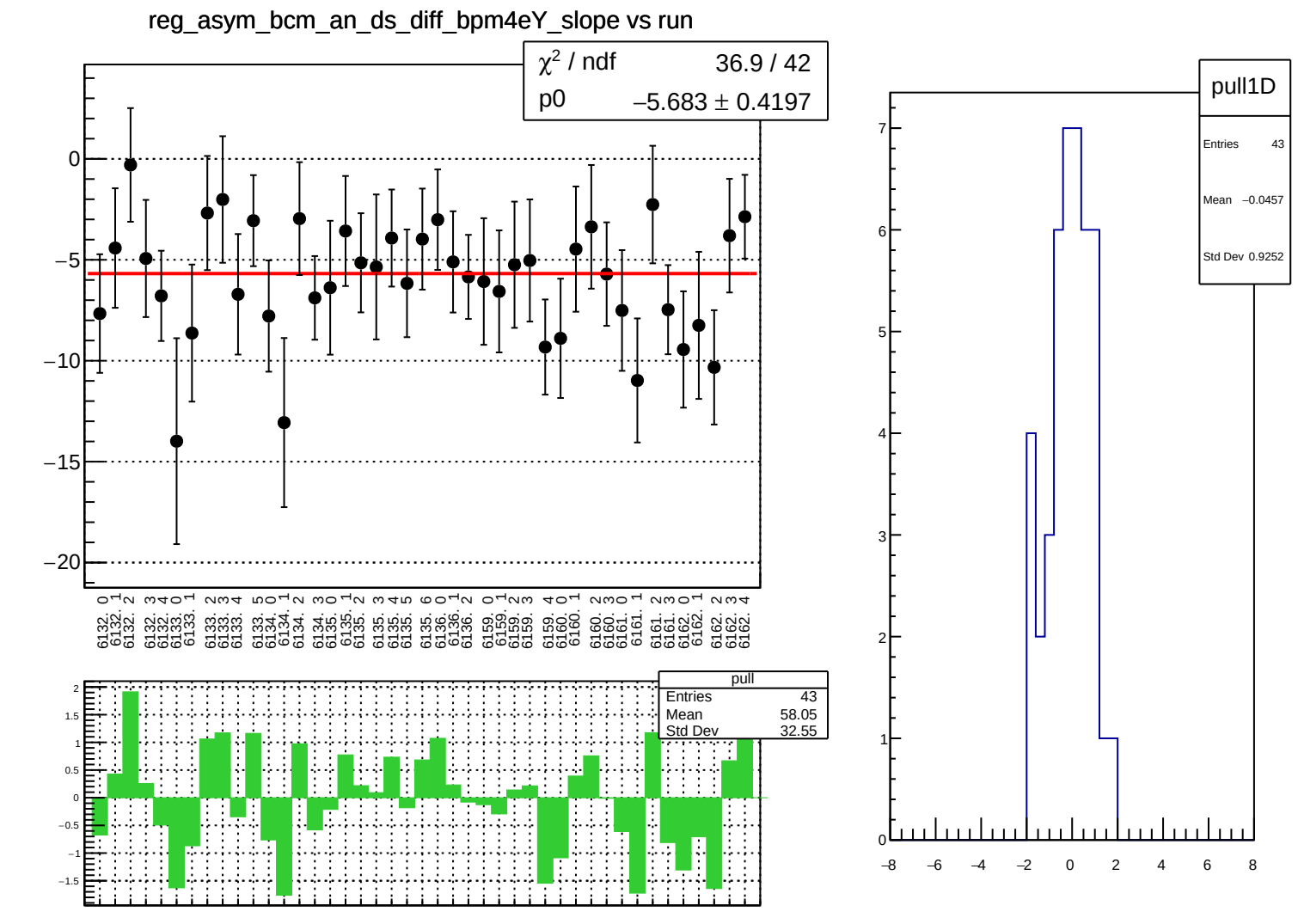

pull1D
Entries 43
Mean −0.02233
Std Dev 0.9252

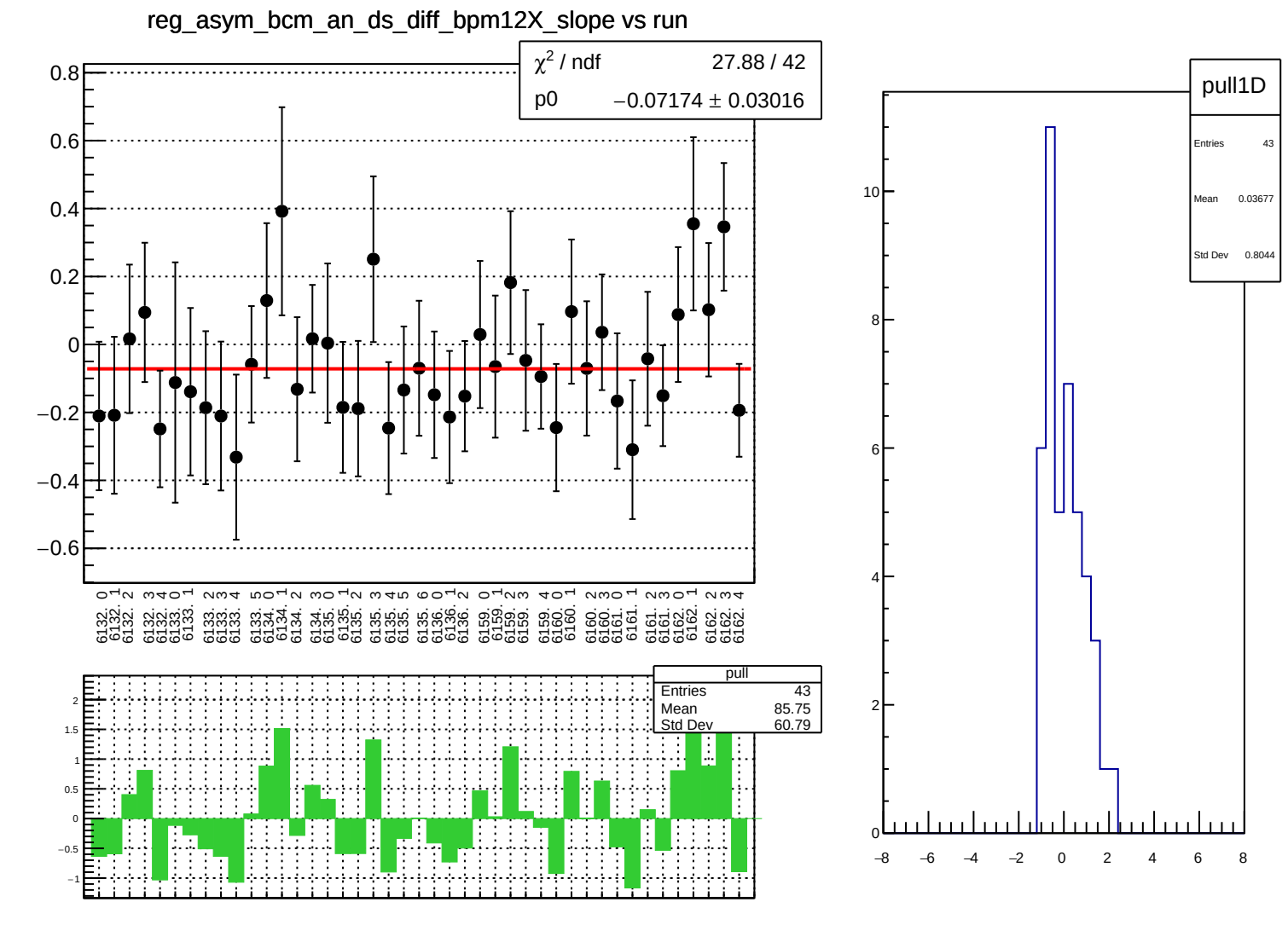

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 35.39 / 42
p0 5.595 ± 0.3943
pull
Entries 43
Mean 47.94
Std Dev 19.84

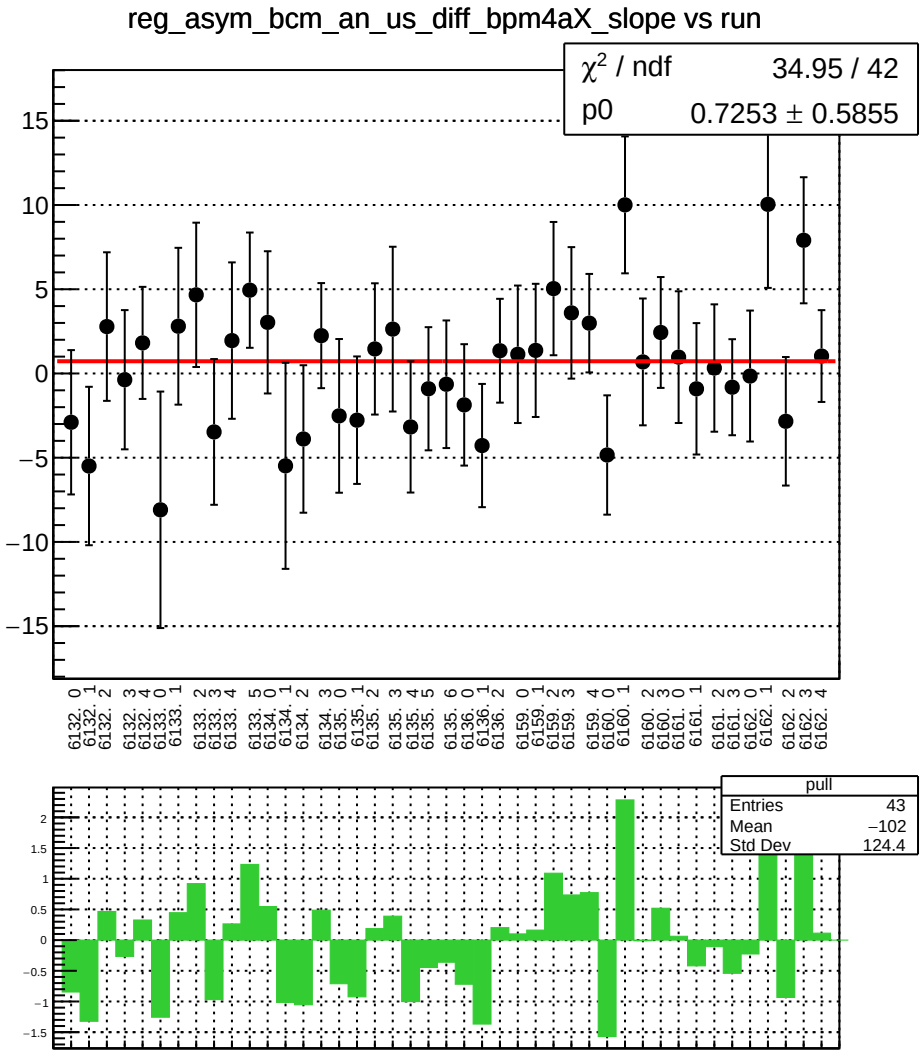

pull1D
Entries 43
Mean 0.04971
Std Dev 0.9059

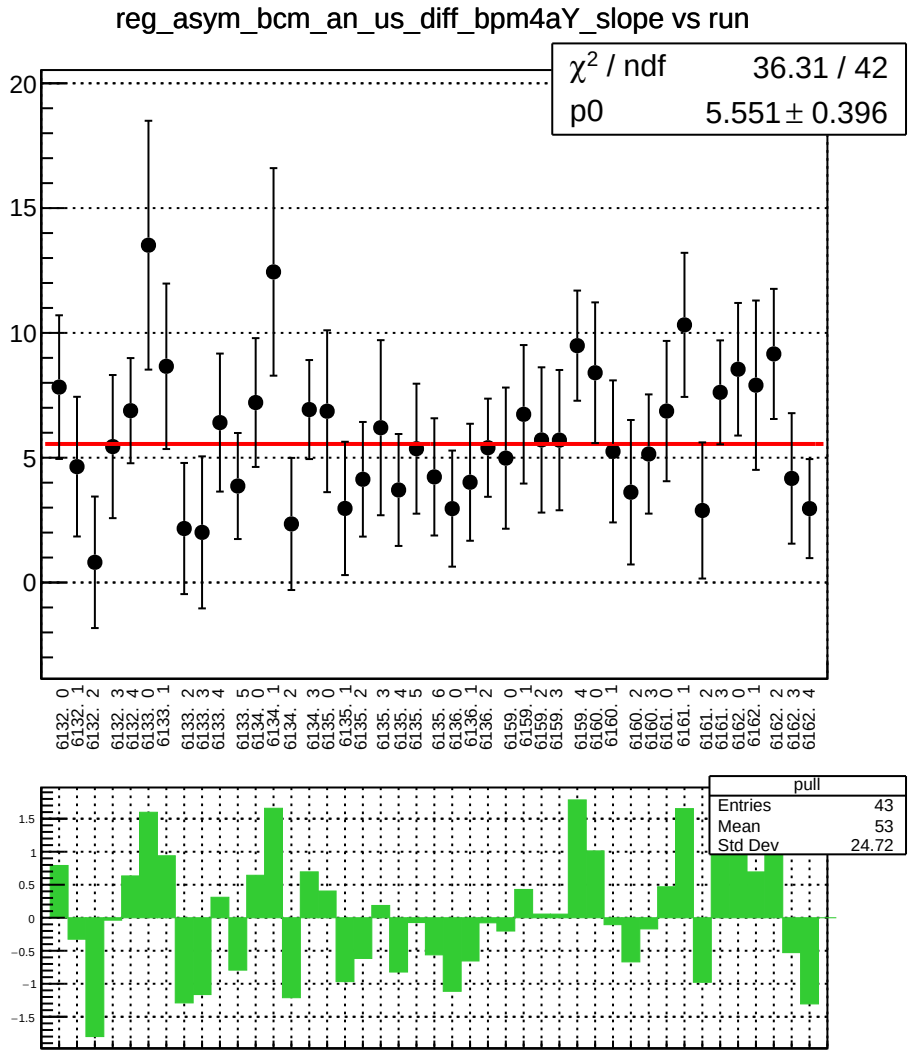

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 37.62 / 42
p0 −1.278 ± 0.679
pull
Entries 43
Mean −76.44
Std Dev 99.02

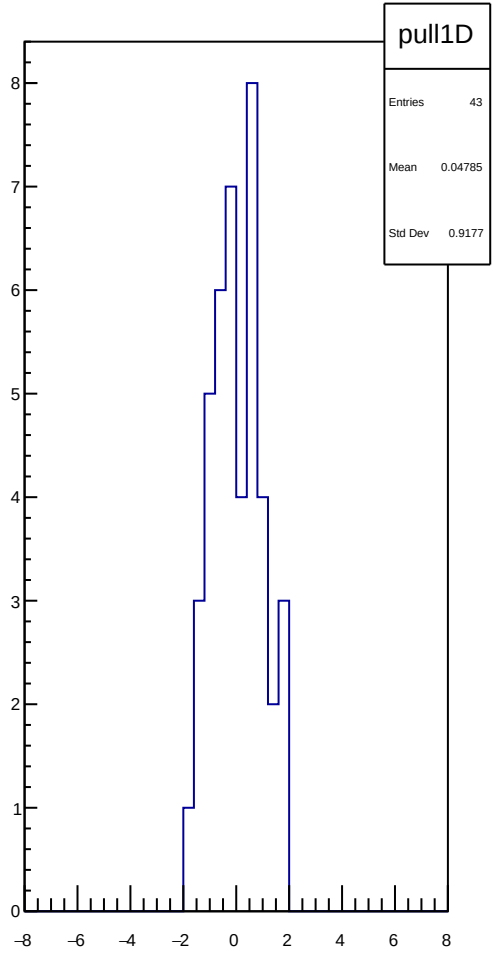

pull1D
Entries 43
Mean 0.02248
Std Dev 0.935

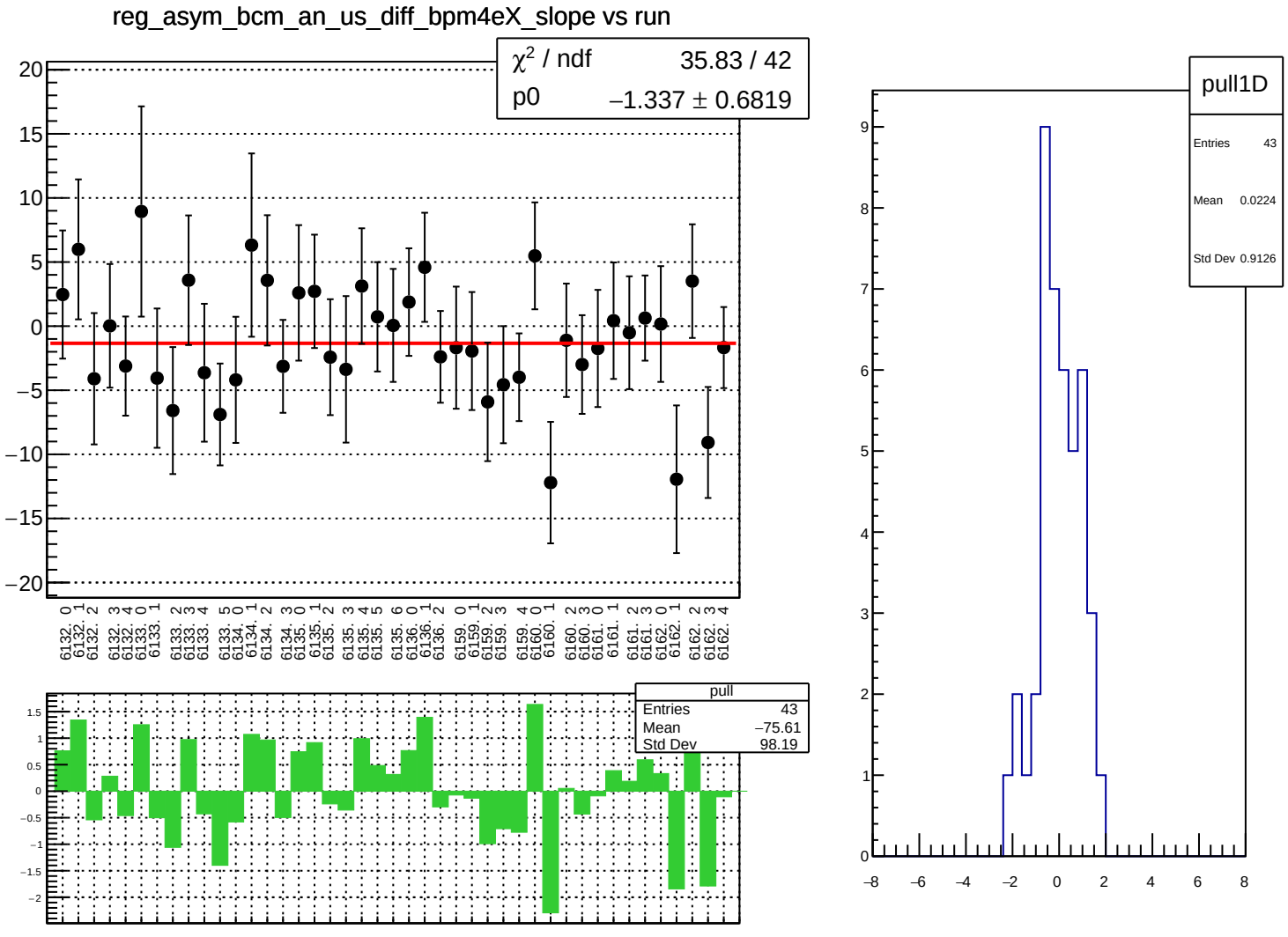

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 36.9 / 42
p0 −5.683 ± 0.4197
pull
Entries 43
Mean 58.05
Std Dev 32.55
pull1D
Entries 43
Mean −0.0457
Std Dev 0.9252

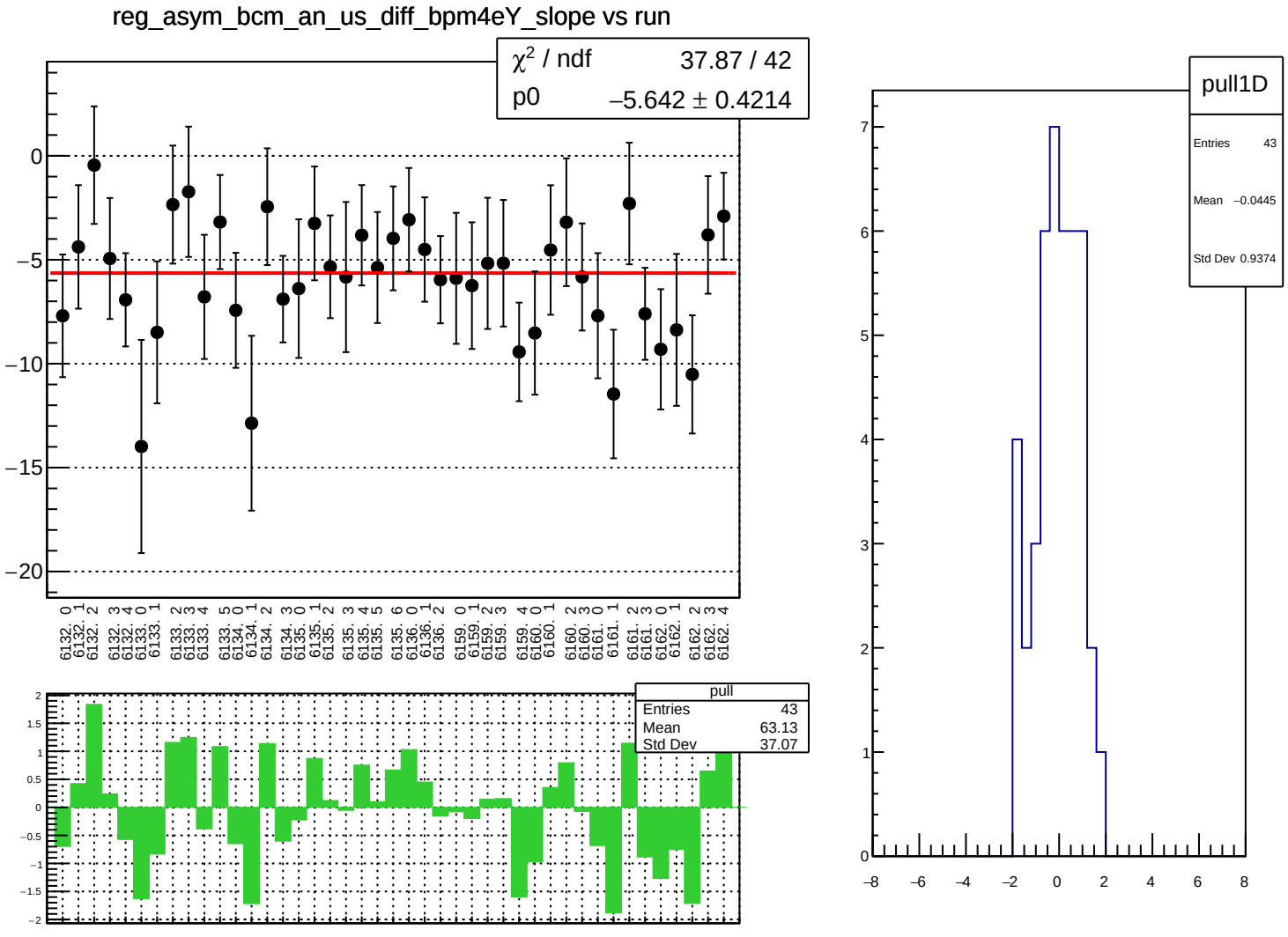

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 27.88 / 42
p0 −0.07174 ± 0.03016
pull
Entries 43
Mean 85.75
Std Dev 60.79
pull1D
Entries 43
Mean 0.03677
Std Dev 0.8044

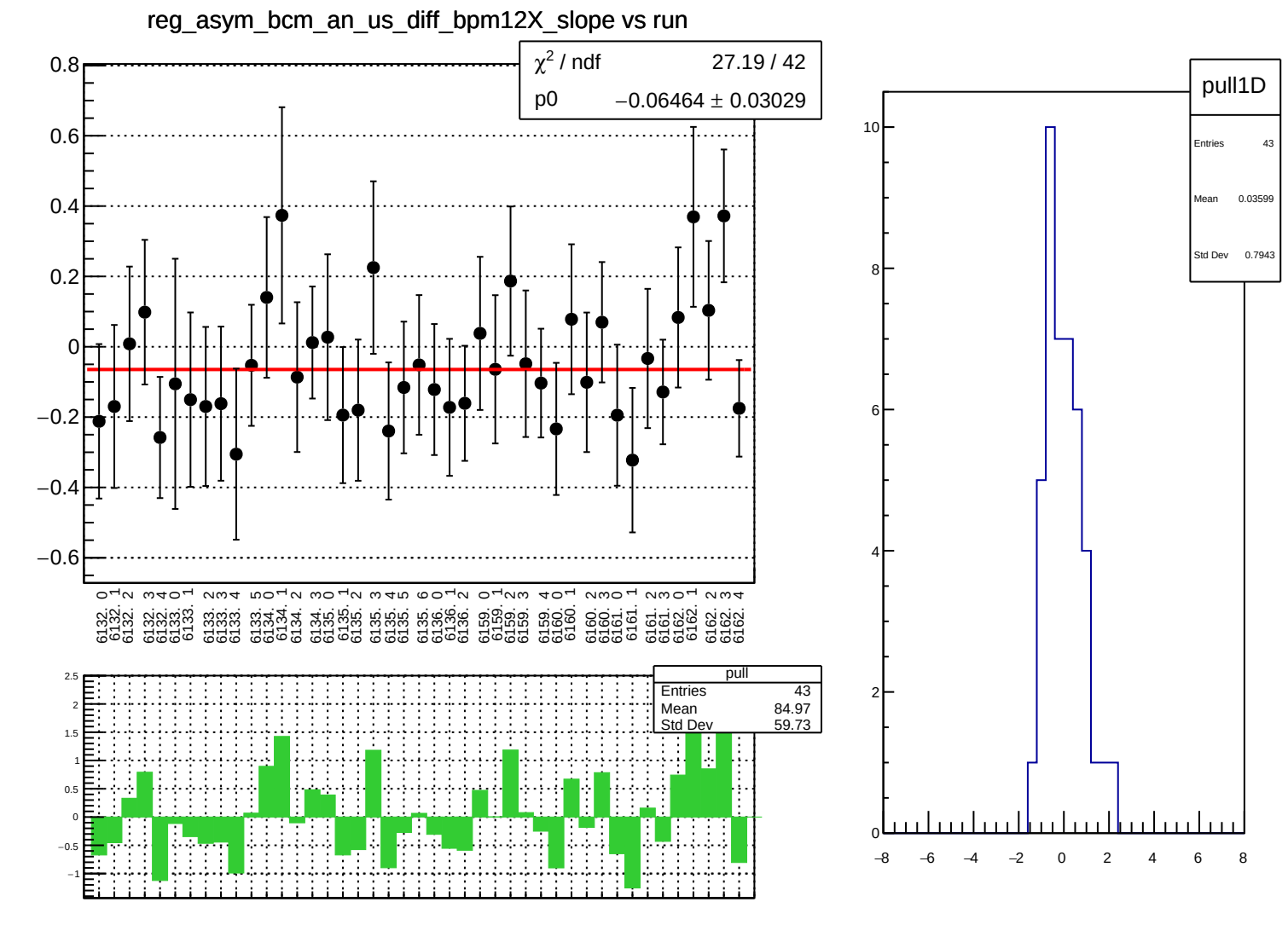

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 34.95 / 42
p0 0.7253 ± 0.5855
pull
Entries 43
Mean −102
Std Dev 124.4
pull1D
Entries 43
Mean −0.02218
Std Dev 0.9013

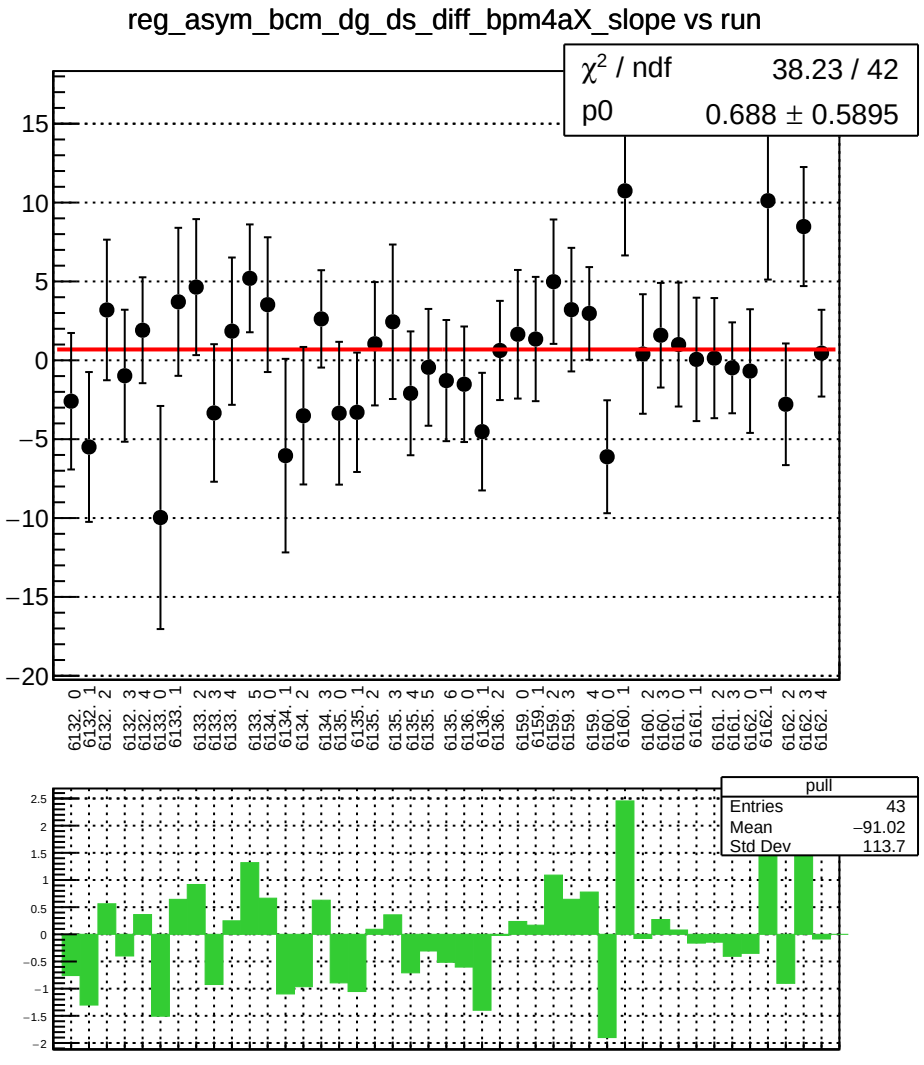

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 36.31 / 42
p0 5.551 ± 0.396
20
15
10
5
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 53
Std Dev 24.72
1.5
1
0.5
0
−0.5
−1
−1.5

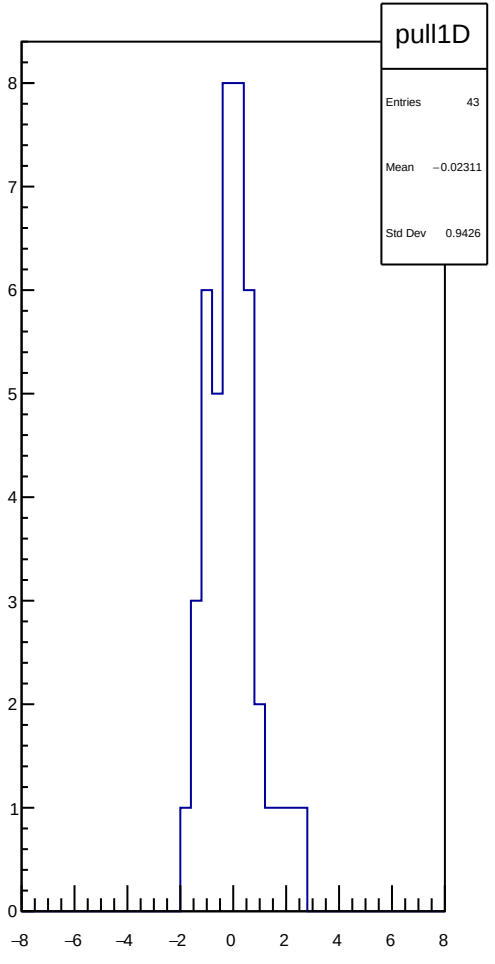

pull1D
Entries 43
Mean 0.04785
Std Dev 0.9177
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 35.83 / 42
p0 −1.337 ± 0.6819
pull
Entries 43
Mean −75.61
Std Dev 98.19
pull1D
Entries 43
Mean 0.0224
Std Dev 0.9126

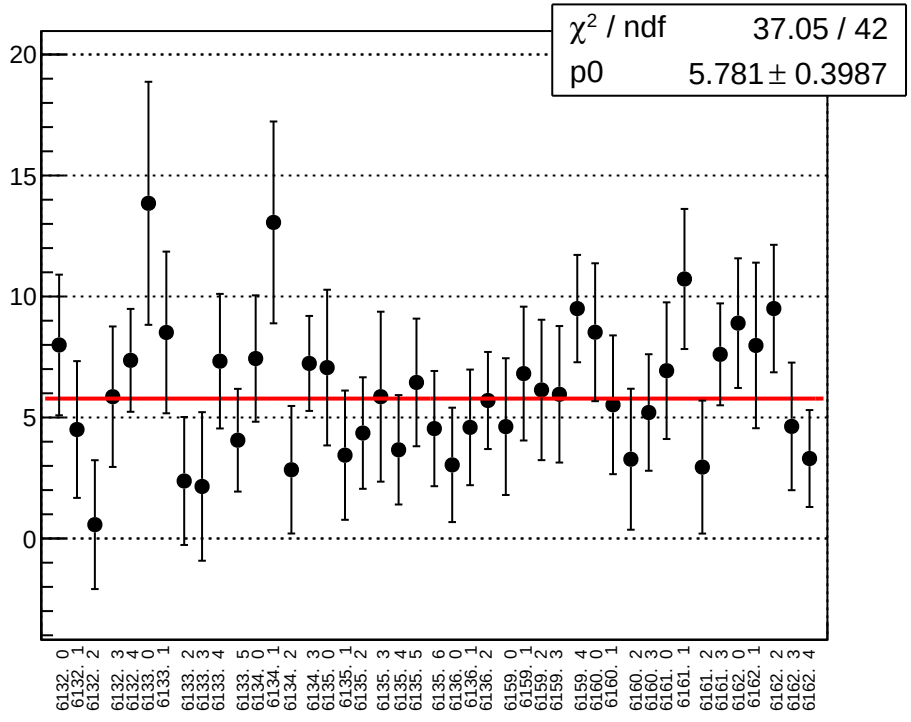

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 37.87 / 42
p0 −5.642 ± 0.4214
pull
Entries 43
Mean 63.13
Std Dev 37.07
pull1D
Entries 43
Mean −0.0445
Std Dev 0.9374

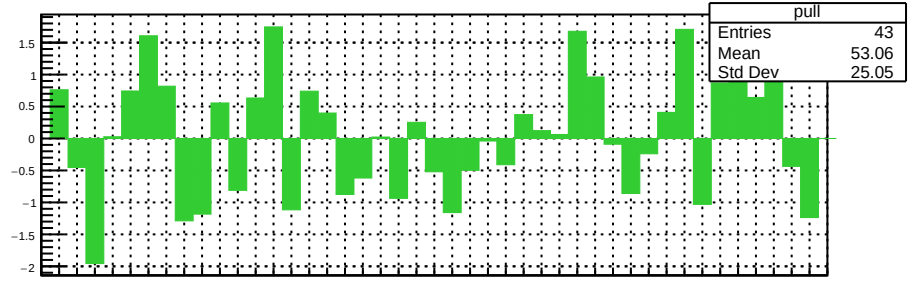

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 27.19 / 42
p0 −0.06464 ± 0.03029
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 84.97
Std Dev 59.73
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.03599
Std Dev 0.7943
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

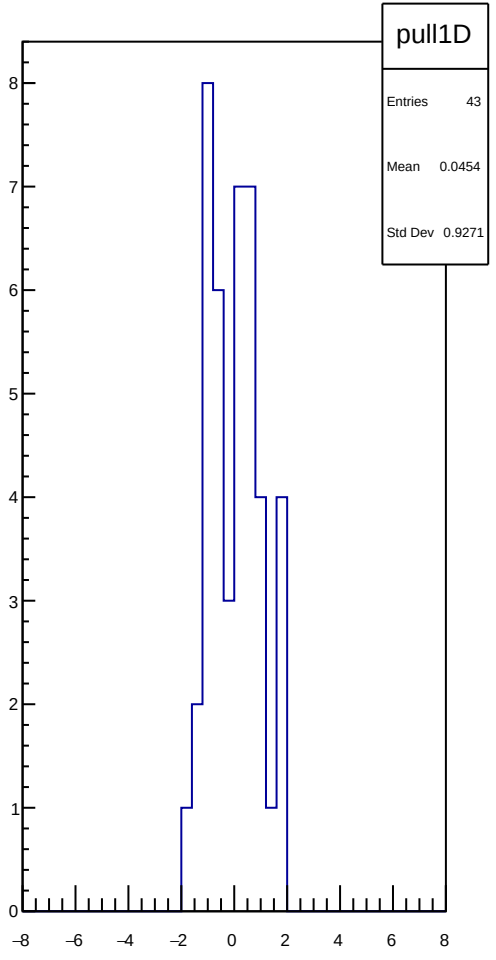

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 38.23 / 42
p0 0.688 ± 0.5895
pull
Entries 43
Mean −91.02
Std Dev 113.7

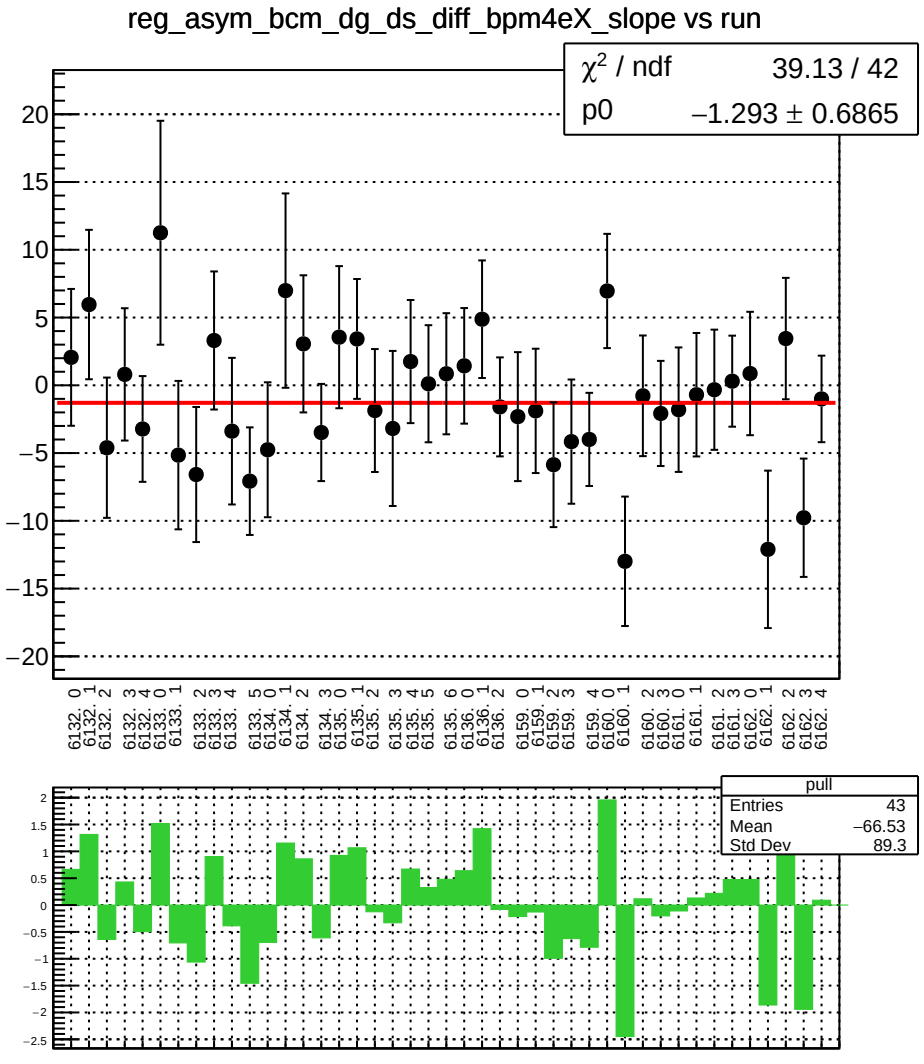

pull1D
Entries 43
Mean −0.02311
Std Dev 0.9426

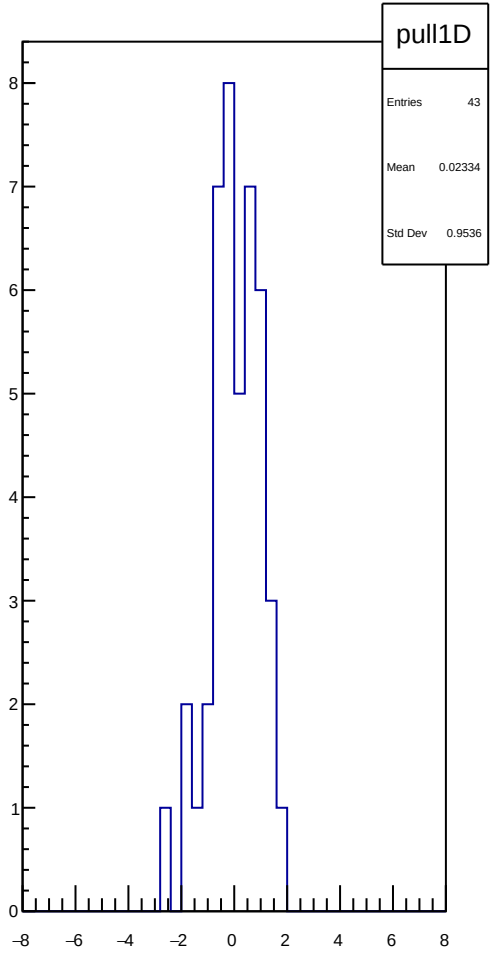
reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run

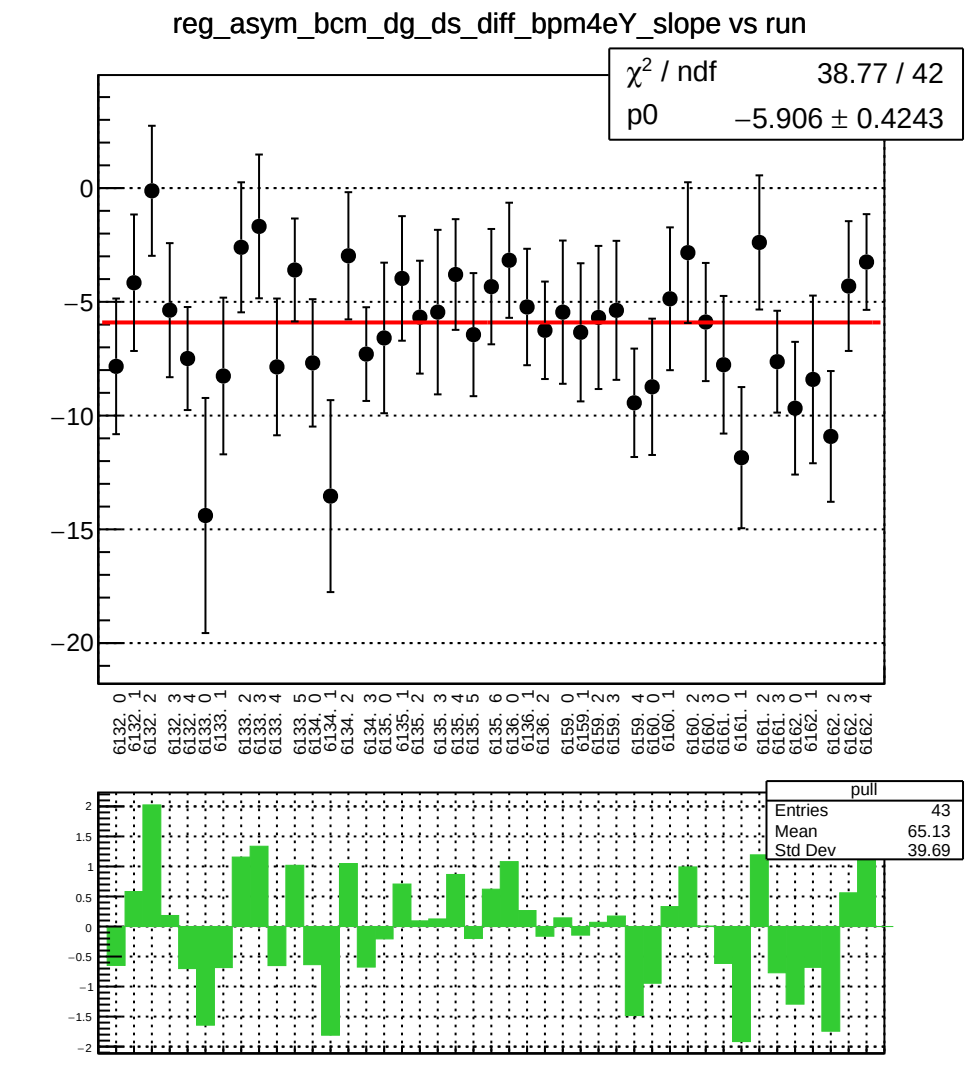


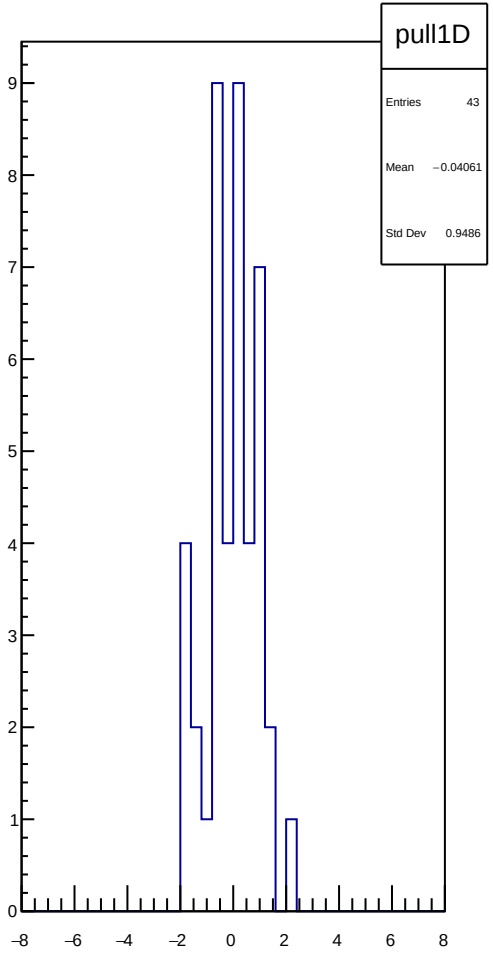


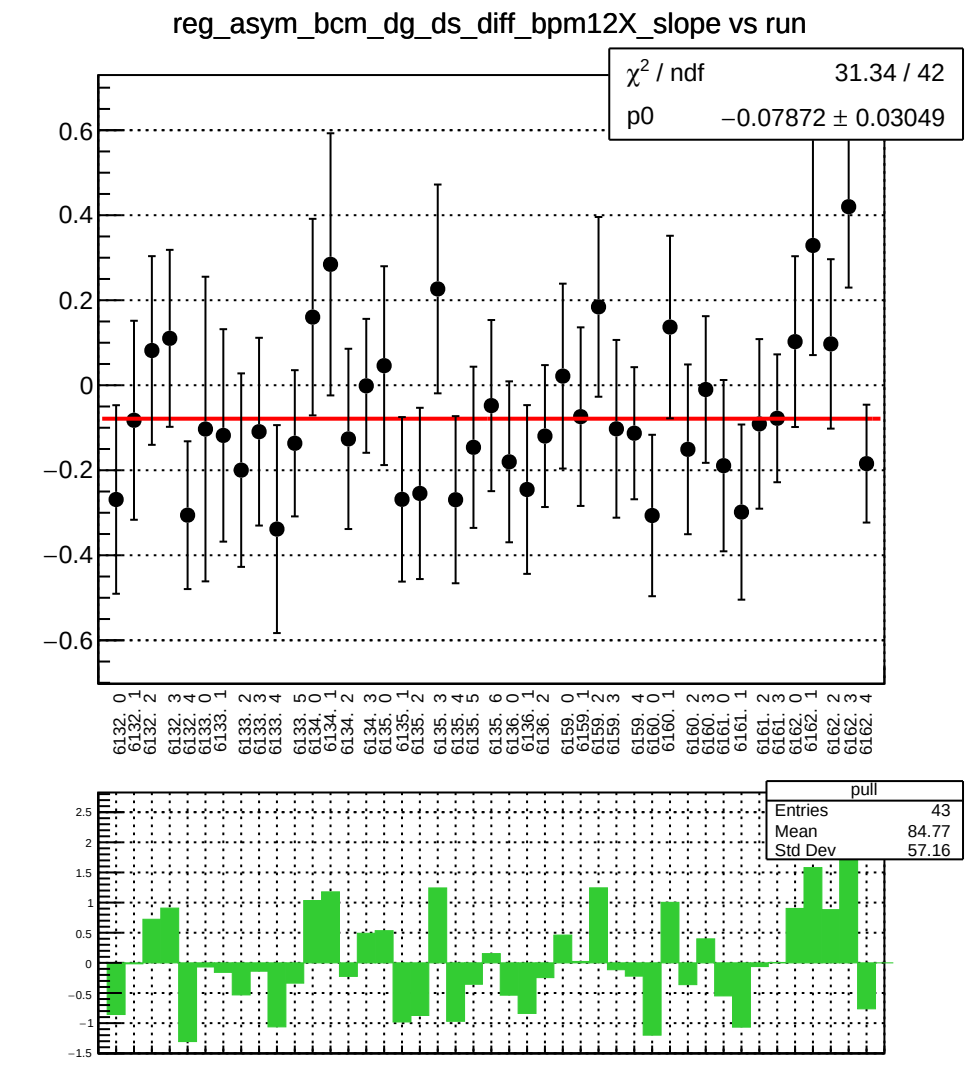


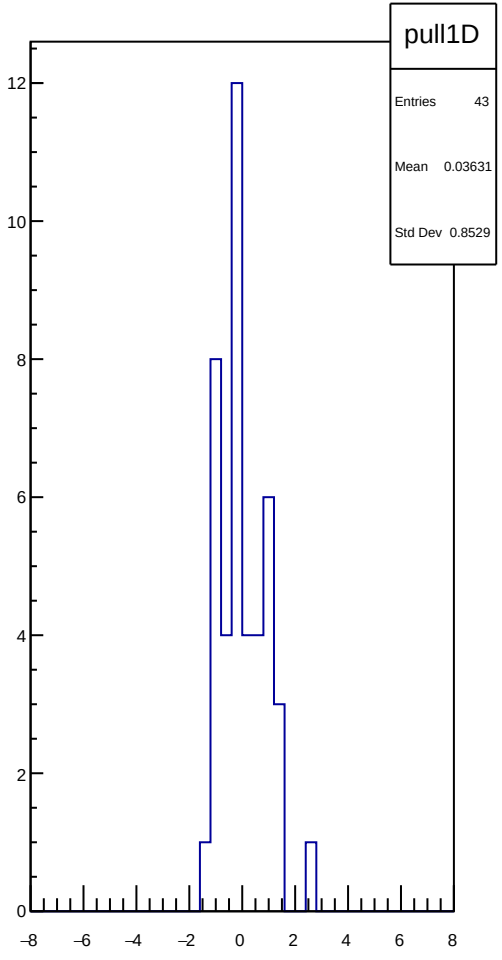

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 39.13 / 42
p0 −1.293 ± 0.6865
pull
Entries 43
Mean −66.53
Std Dev 89.3

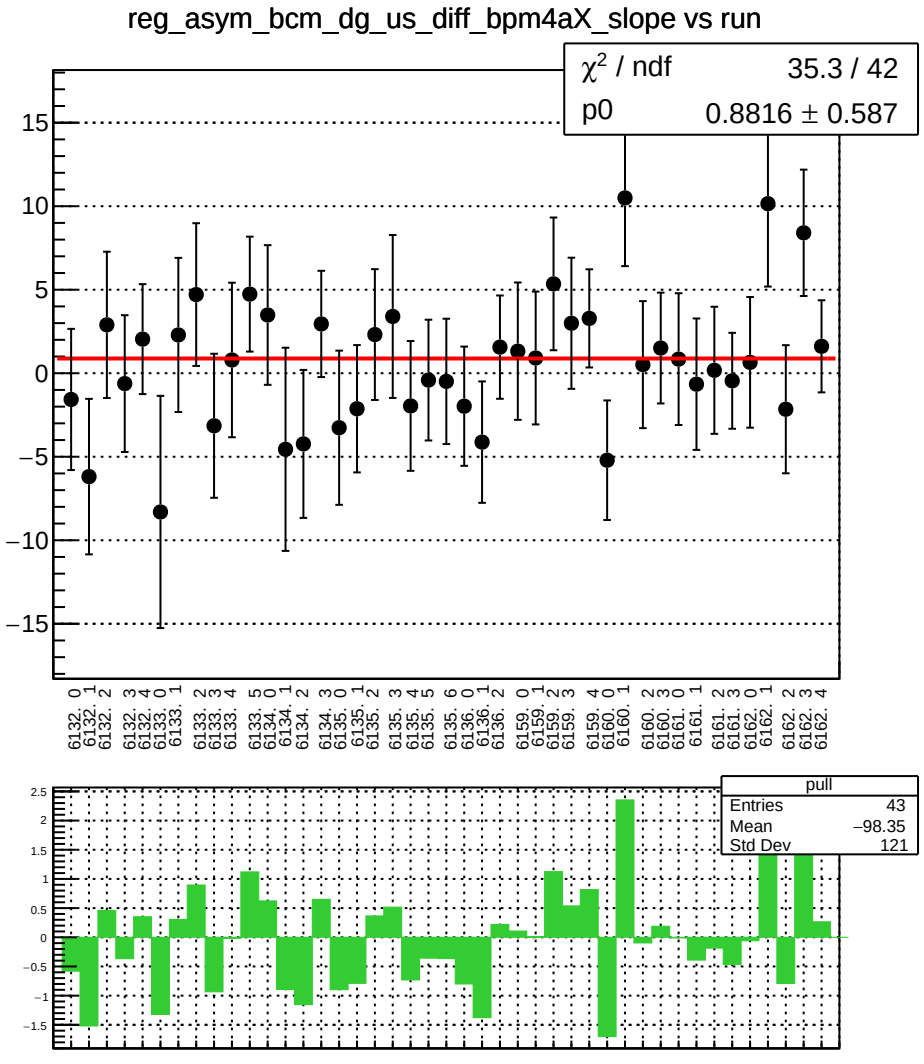

pull1D
Entries 43
Mean 0.02334
Std Dev 0.9536

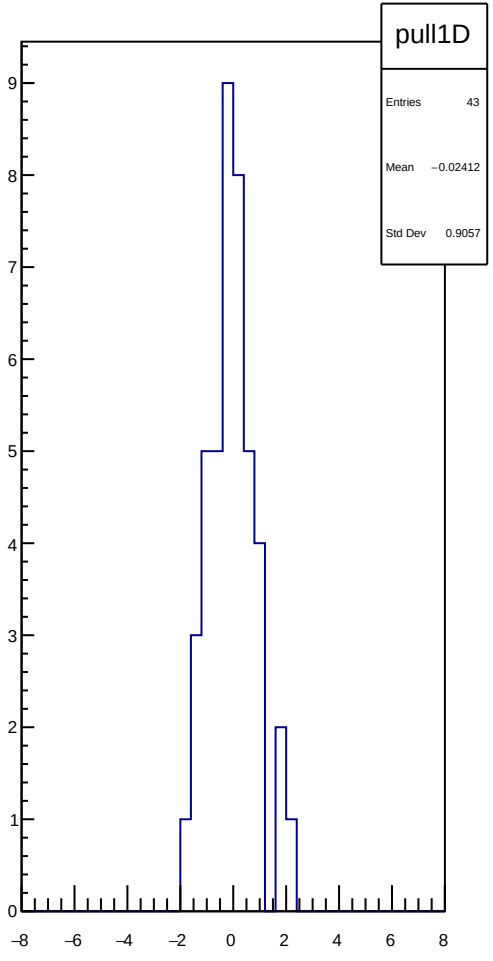

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 38.77 / 42
p0 −5.906 ± 0.4243
pull
Entries 43
Mean 65.13
Std Dev 39.69

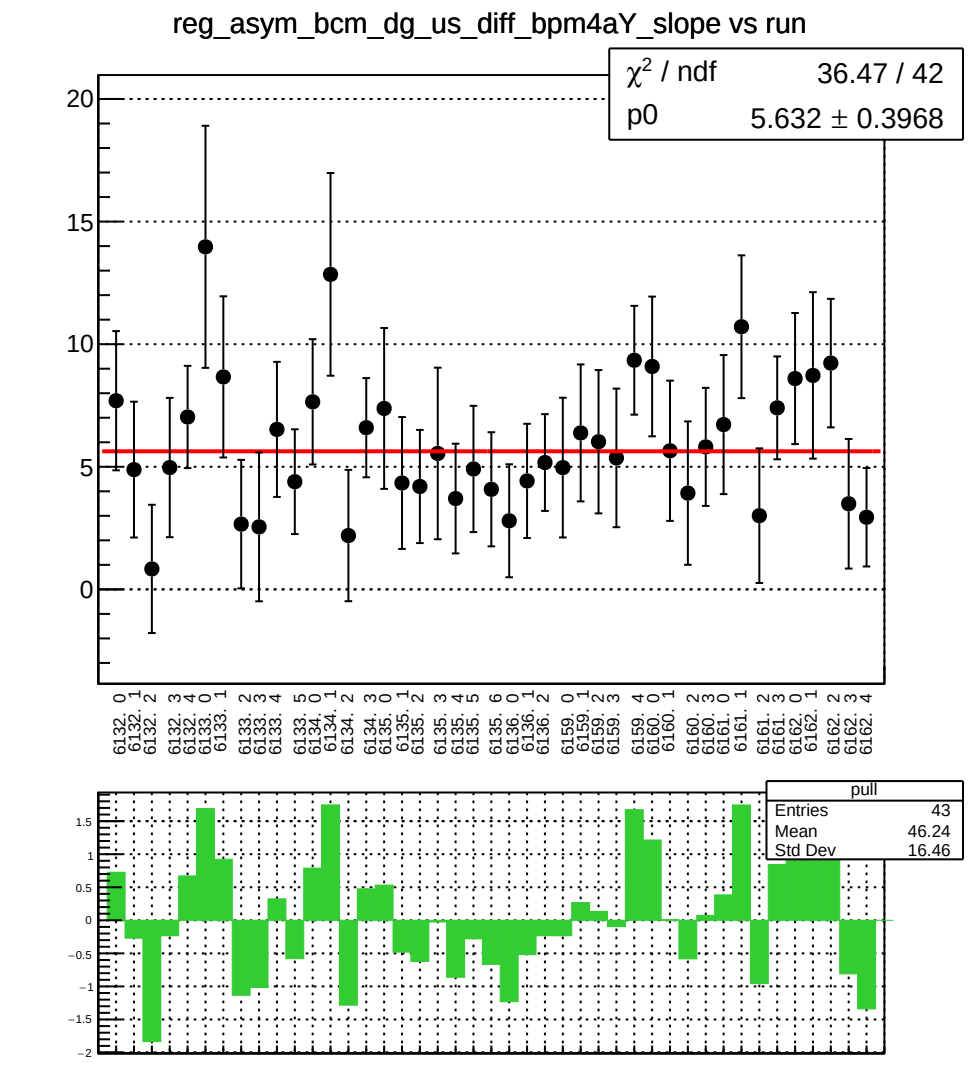

pull1D
Entries 43
Mean −0.04061
Std Dev 0.9486

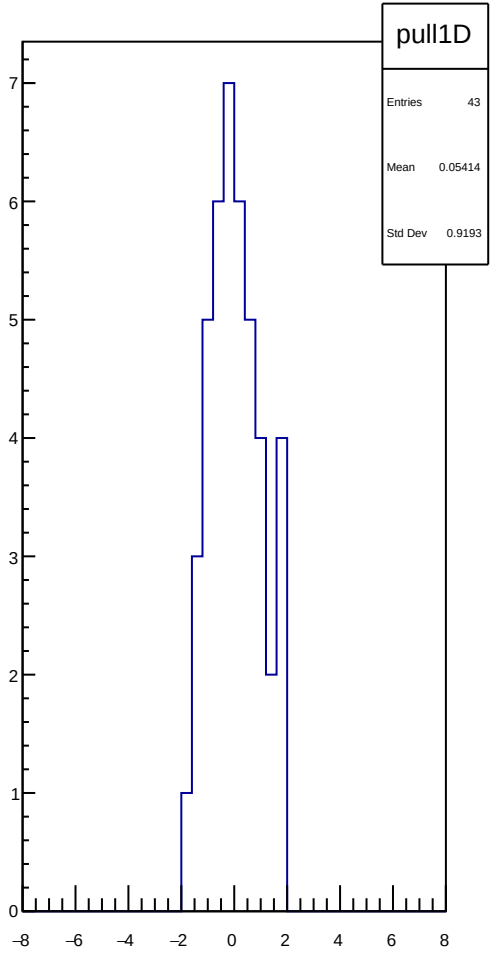

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 31.34 / 42
p0 −0.07872 ± 0.03049
pull
Entries 43
Mean 84.77
Std Dev 57.16

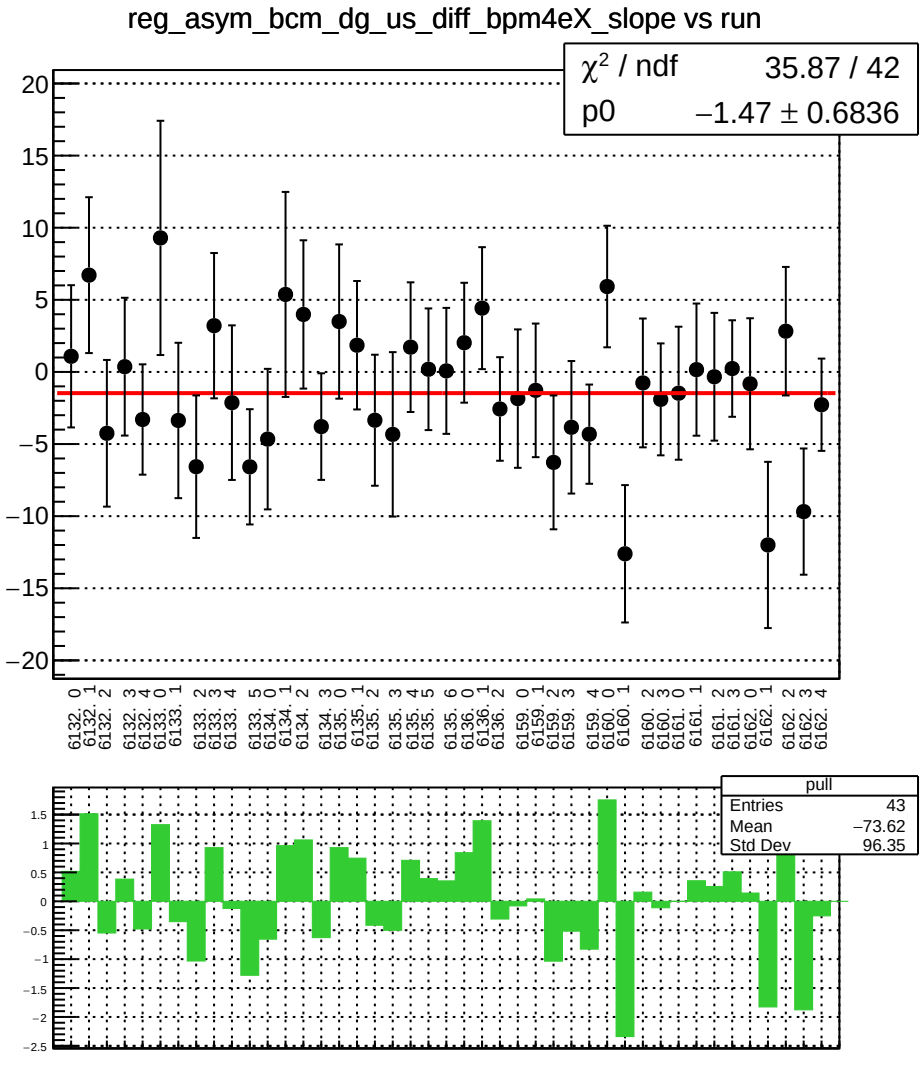

pull1D
Entries 43
Mean 0.03631
Std Dev 0.8529

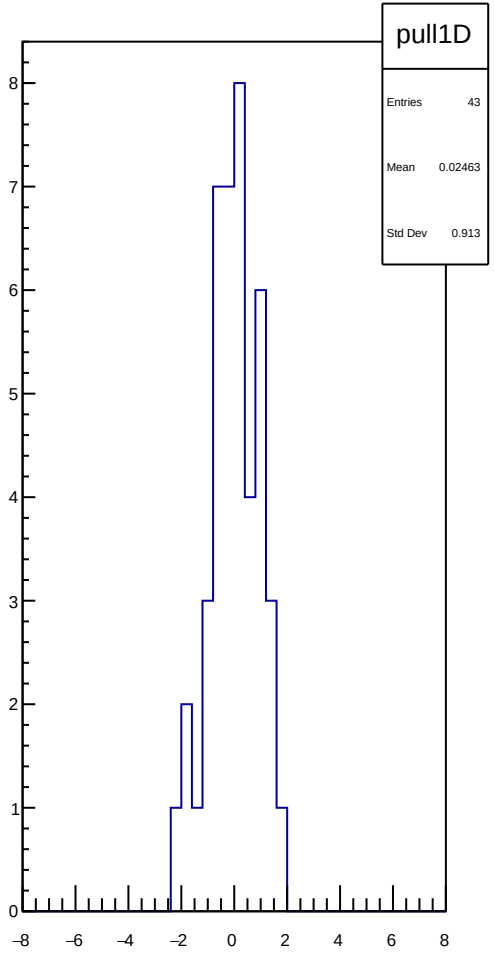

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 35.3 / 42
p0 0.8816 ± 0.587
pull
Entries 43
Mean −98.35
Std Dev 121

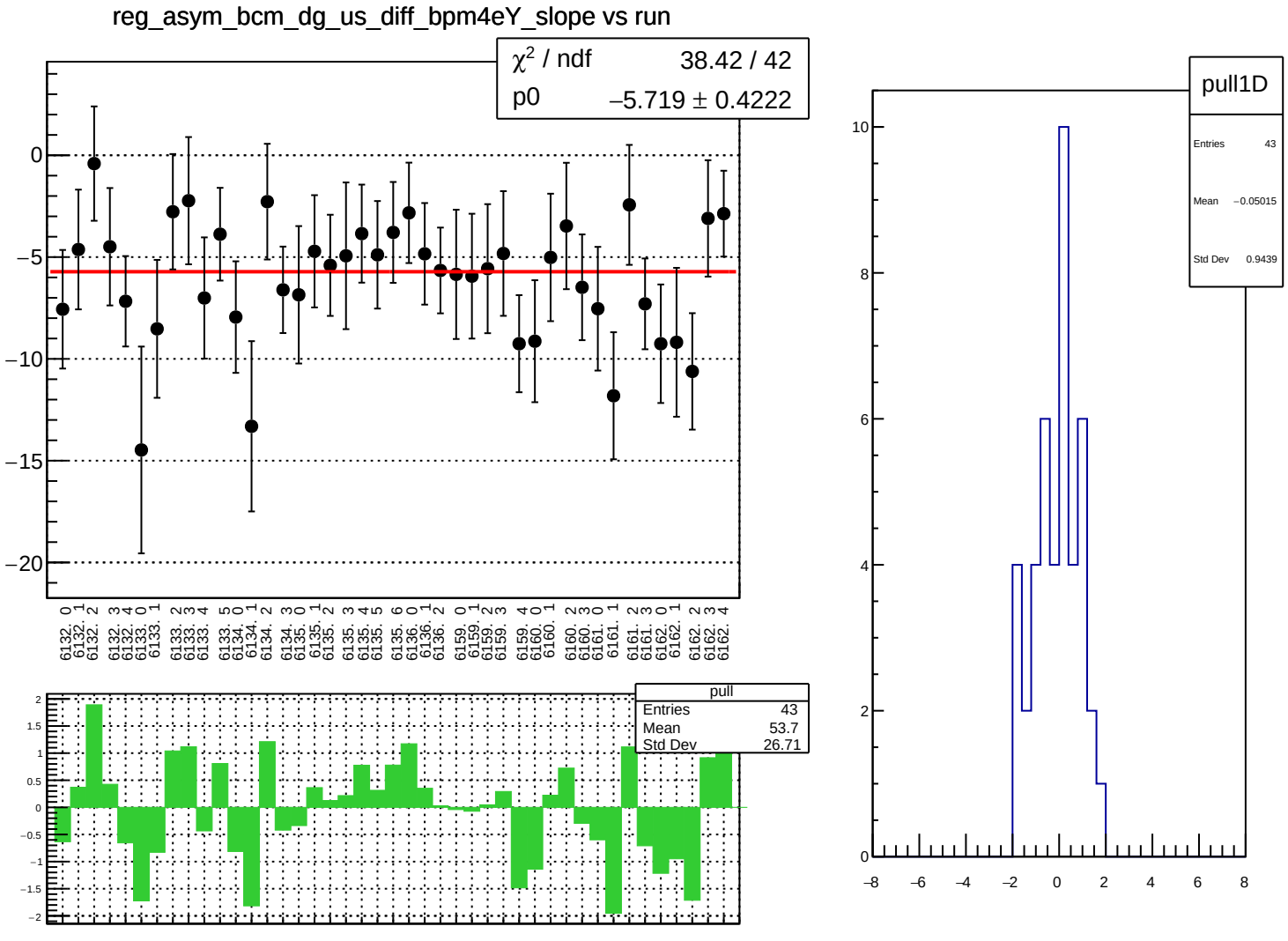

pull1D
Entries 43
Mean −0.02412
Std Dev 0.9057

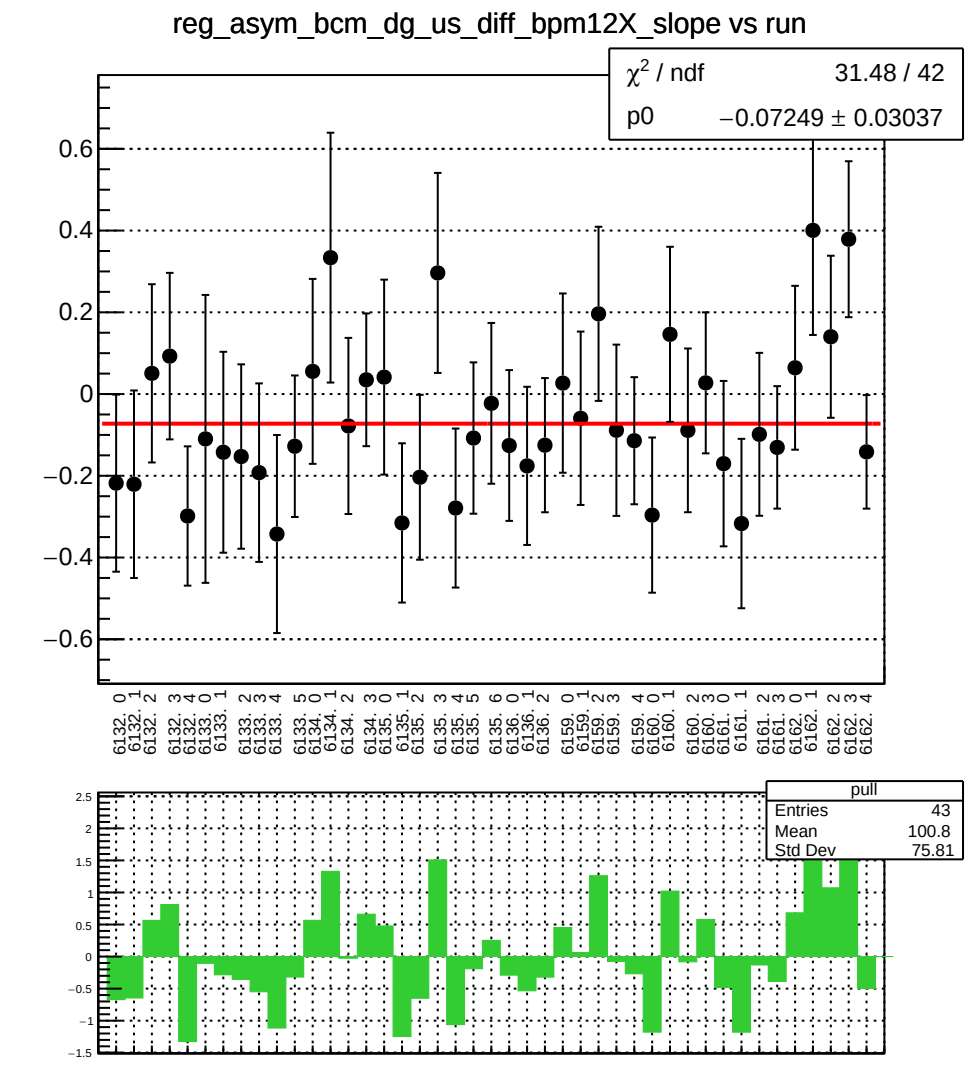

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 36.47 / 42
p0 5.632 ± 0.3968
pull
Entries 43
Mean 46.24
Std Dev 16.46

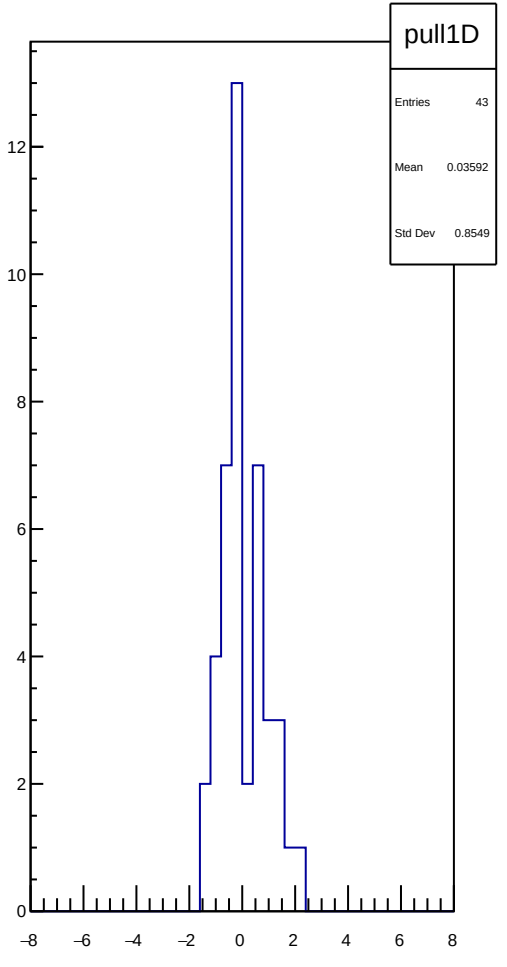

pull1D
Entries 43
Mean 0.05414
Std Dev 0.9193

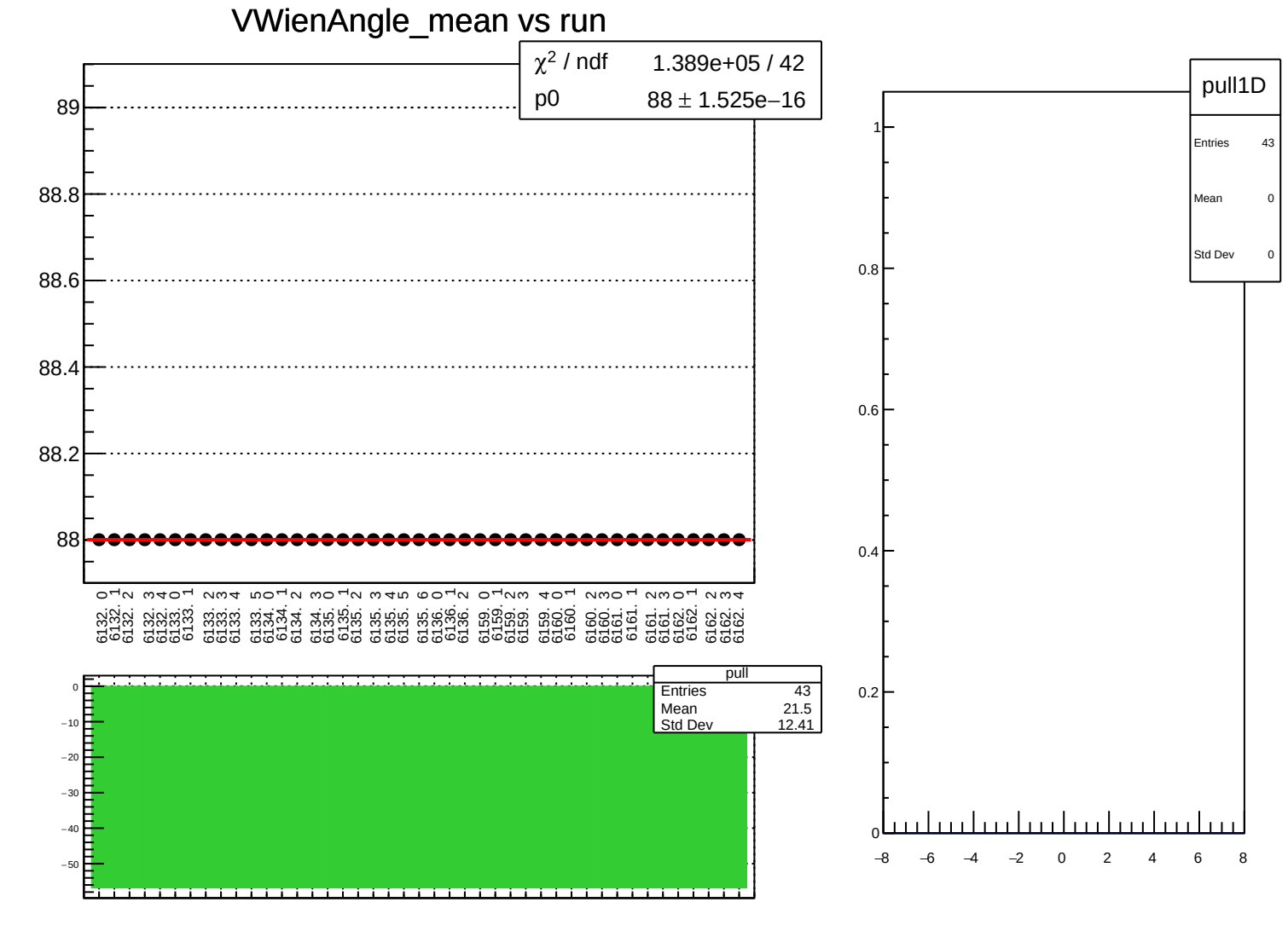

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 35.87 / 42
p0 −1.47 ± 0.6836
pull
Entries 43
Mean −73.62
Std Dev 96.35

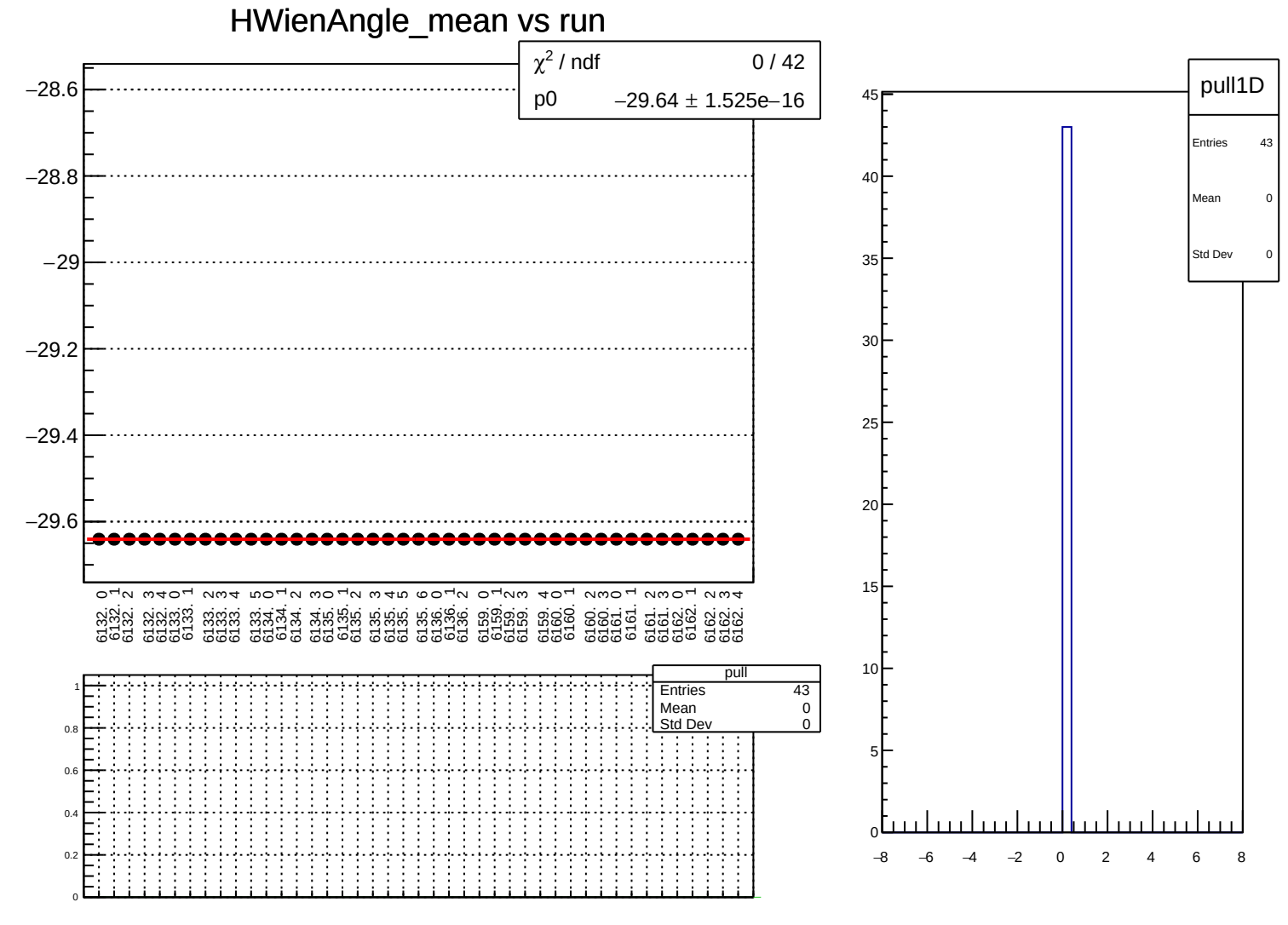

pull1D
Entries 43
Mean 0.02463
Std Dev 0.913

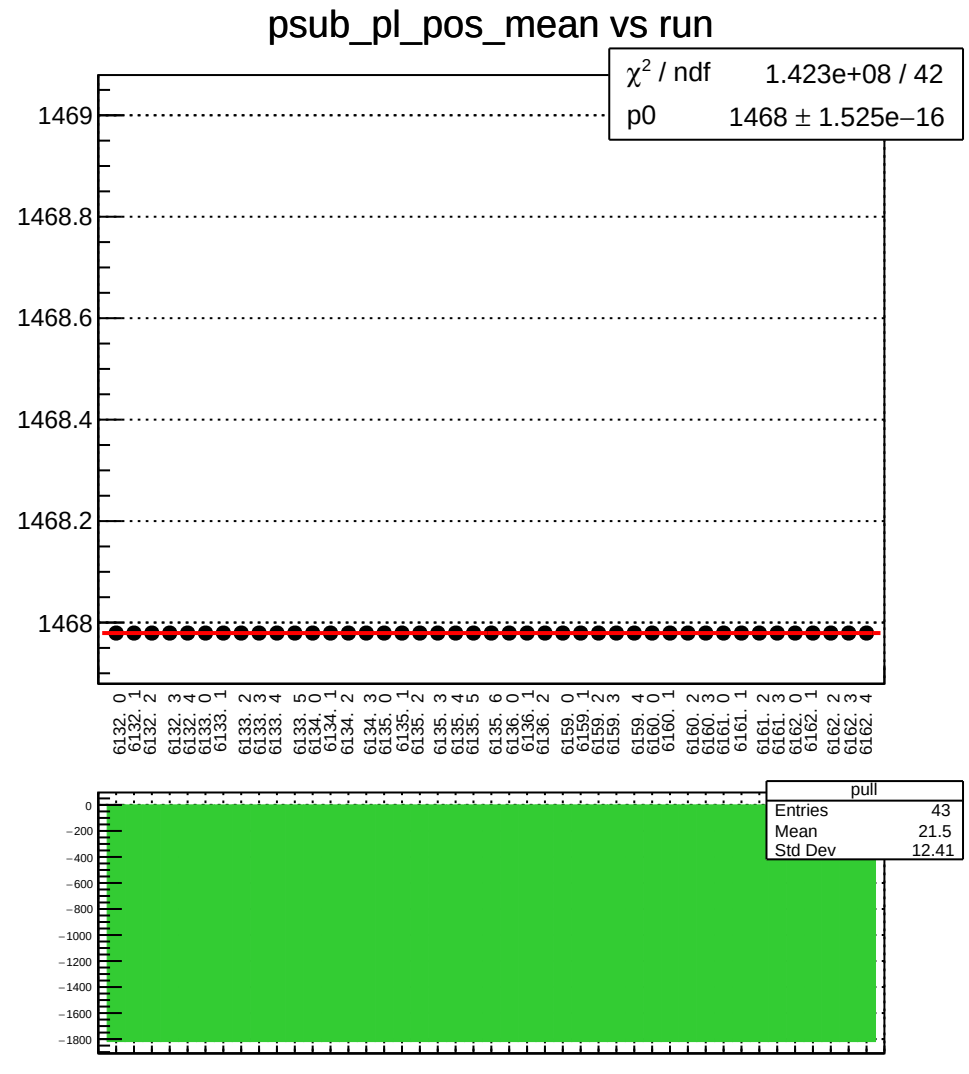

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 38.42 / 42
p0 −5.719 ± 0.4222
0
−5
−10
−15
−20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 53.7
Std Dev 26.71
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.05015
Std Dev 0.9439
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

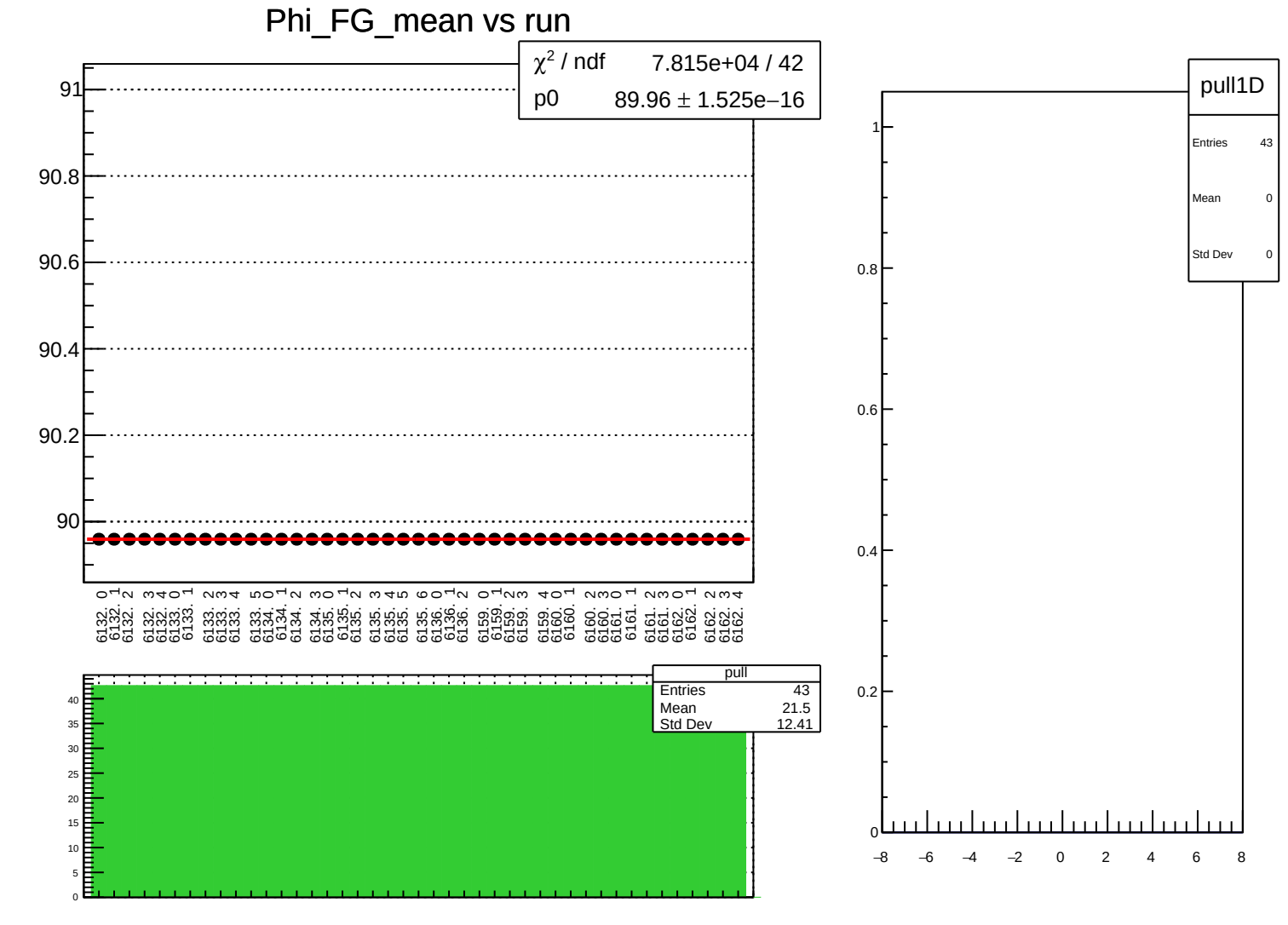

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 31.48 / 42
p0 −0.07249 ± 0.03037
pull
Entries 43
Mean 100.8
Std Dev 75.81

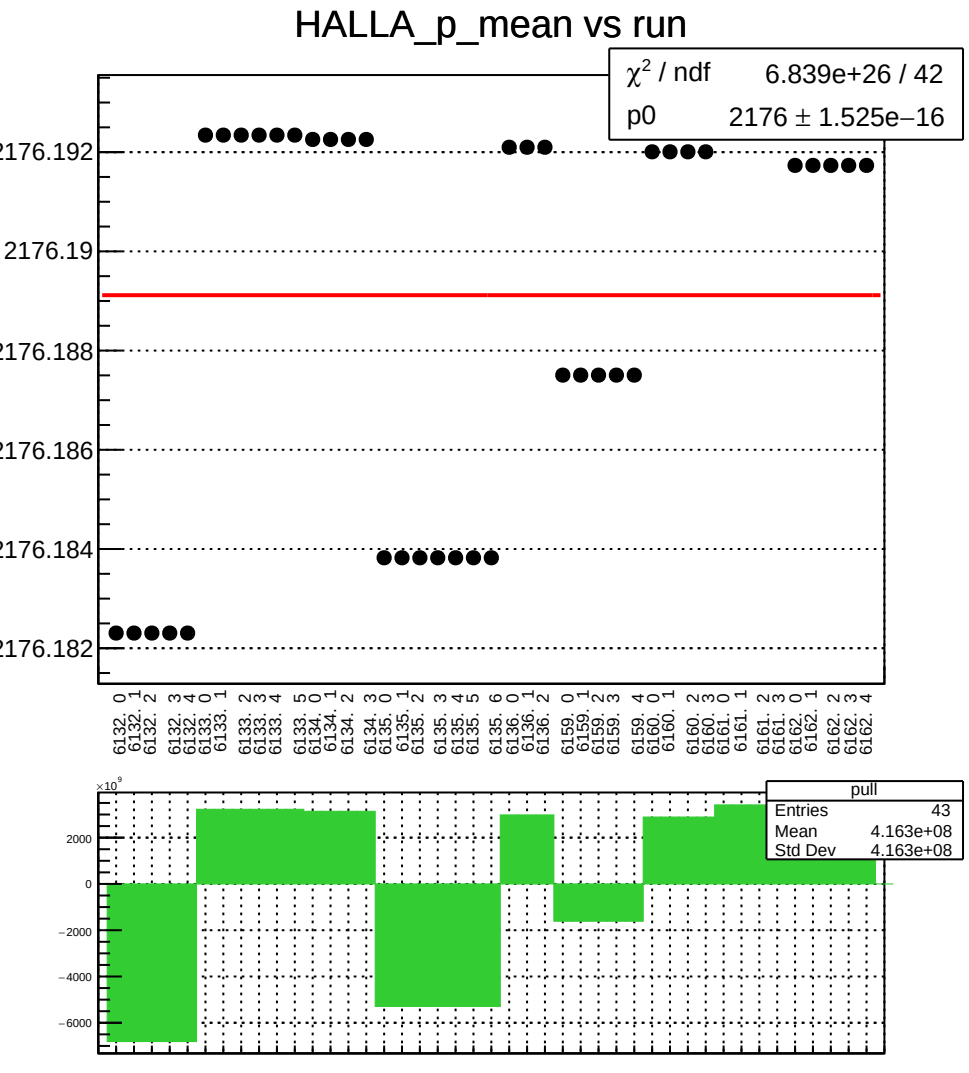

pull1D
Entries 43
Mean 0.03592
Std Dev 0.8549

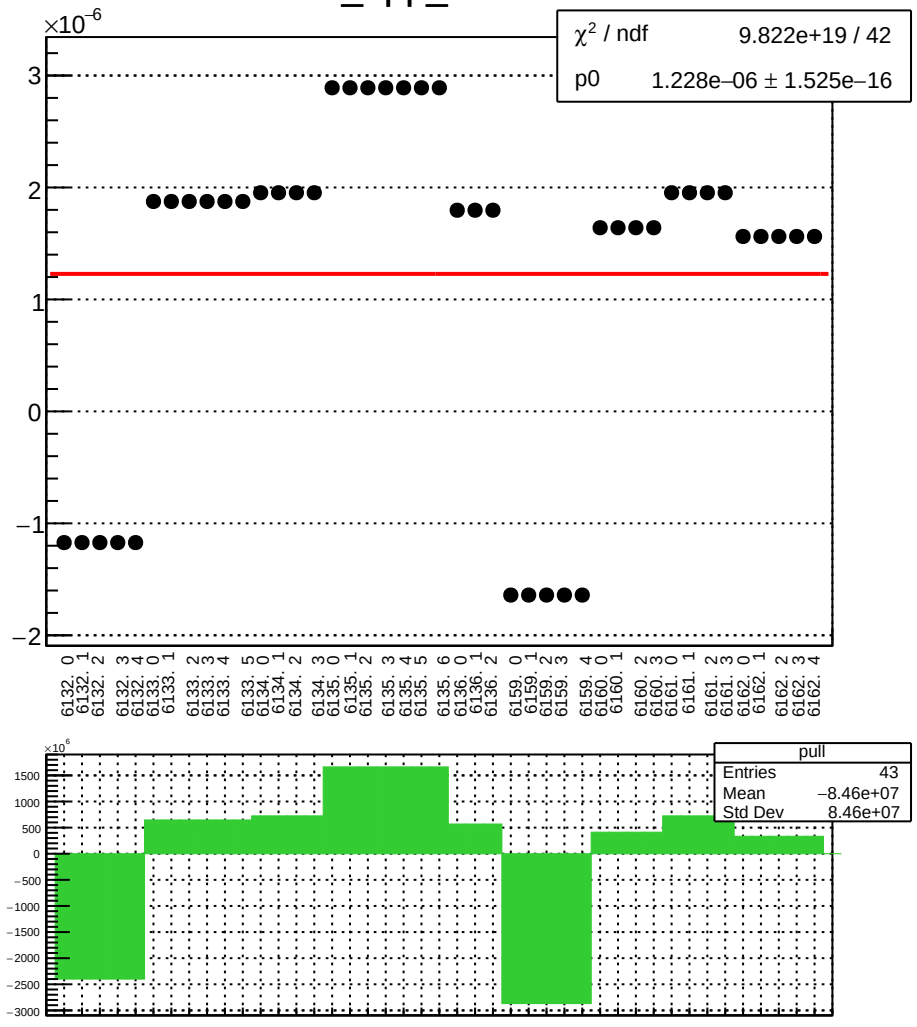

VWienAngle_mean vs run
χ² / ndf 1.389e+05 / 42
p0 88 ± 1.525e−16
89
88.8
88.6
88.4
88.2
88
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 21.5
Std Dev 12.41
0
−10
−20
−30
−40
−50
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

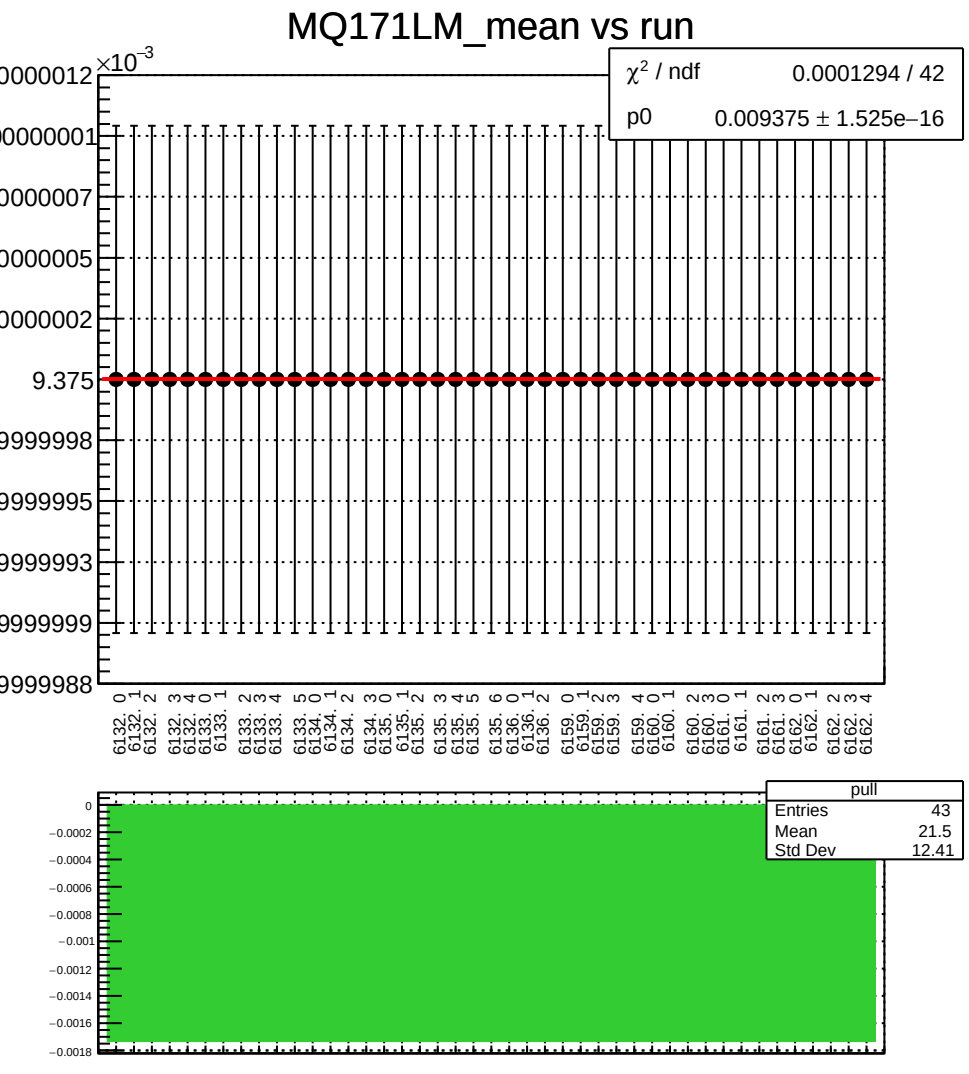

HWienAngle_mean vs run
χ² / ndf 0 / 42
p0 −29.64 ± 1.525e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 43
Mean 0
Std Dev 0
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

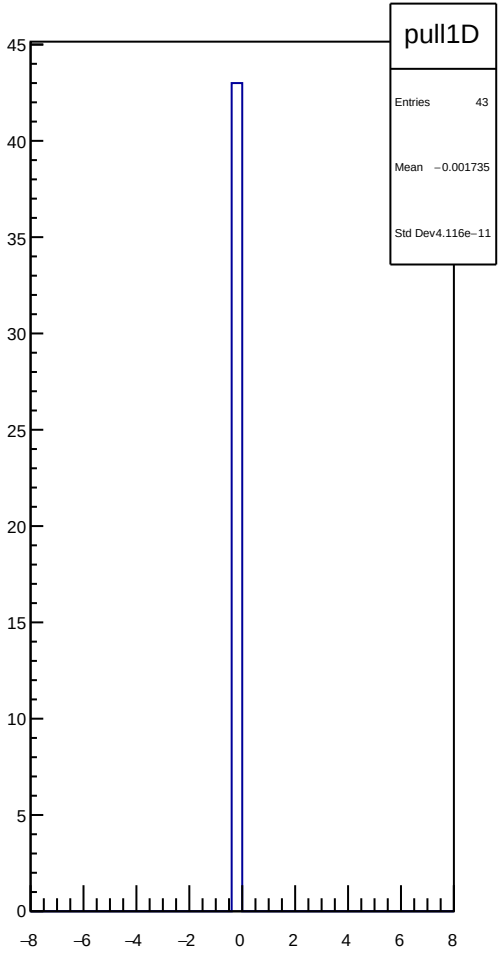

psub_pl_pos_mean vs run
χ² / ndf 1.423e+08 / 42
p0 1468 ± 1.525e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 21.5
Std Dev 12.41
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

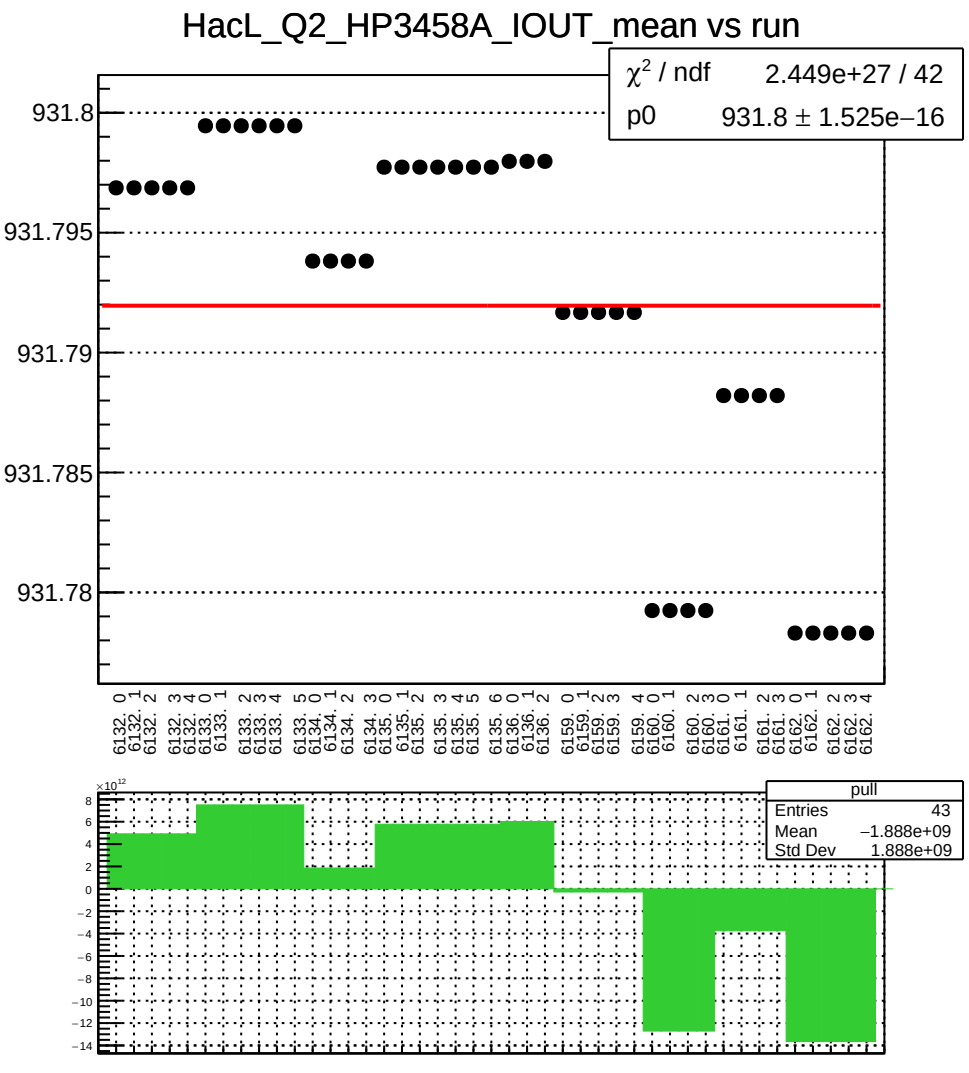

Phi_FG_mean vs run
χ² / ndf 7.815e+04 / 42
p0 89.96 ± 1.525e−16
91
90.8
90.6
90.4
90.2
90
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 21.5
Std Dev 12.41
40
35
30
25
20
15
10
5
0
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

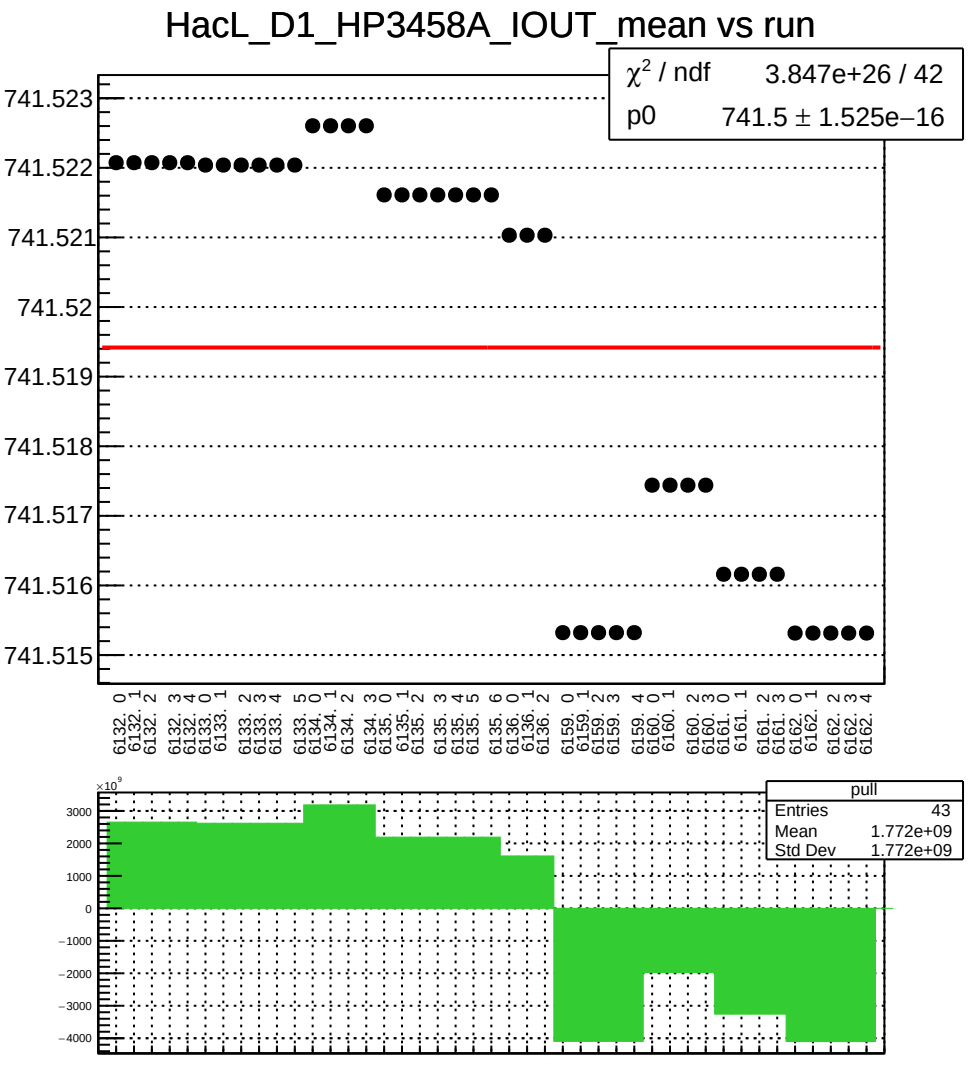

HALLA_p_mean vs run
χ² / ndf 6.839e+26 / 42
p0 2176 ± 1.525e−16
2176.192
2176.19
2176.188
2176.186
2176.184
2176.182
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
×10⁹
2000
0
−2000
−4000
−6000
pull
Entries 43
Mean 4.163e+08
Std Dev 4.163e+08
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

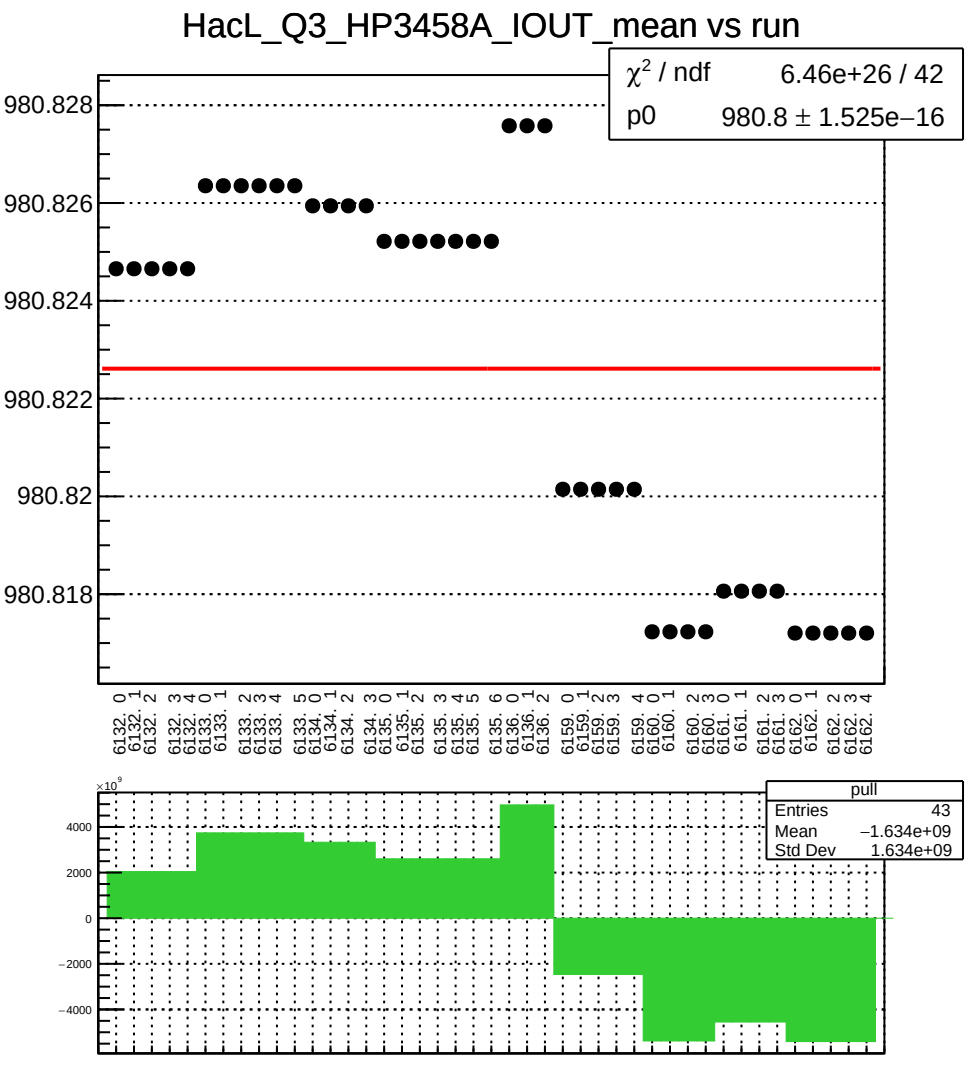

HALLA_dpp_mean vs run
×10⁻⁶
χ² / ndf 9.822e+19 / 42
p0 1.228e−06 ± 1.525e−16
3
2
1
0
−1
−2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
×10⁶
pull
Entries 43
Mean −8.46e+07
Std Dev 8.46e+07
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

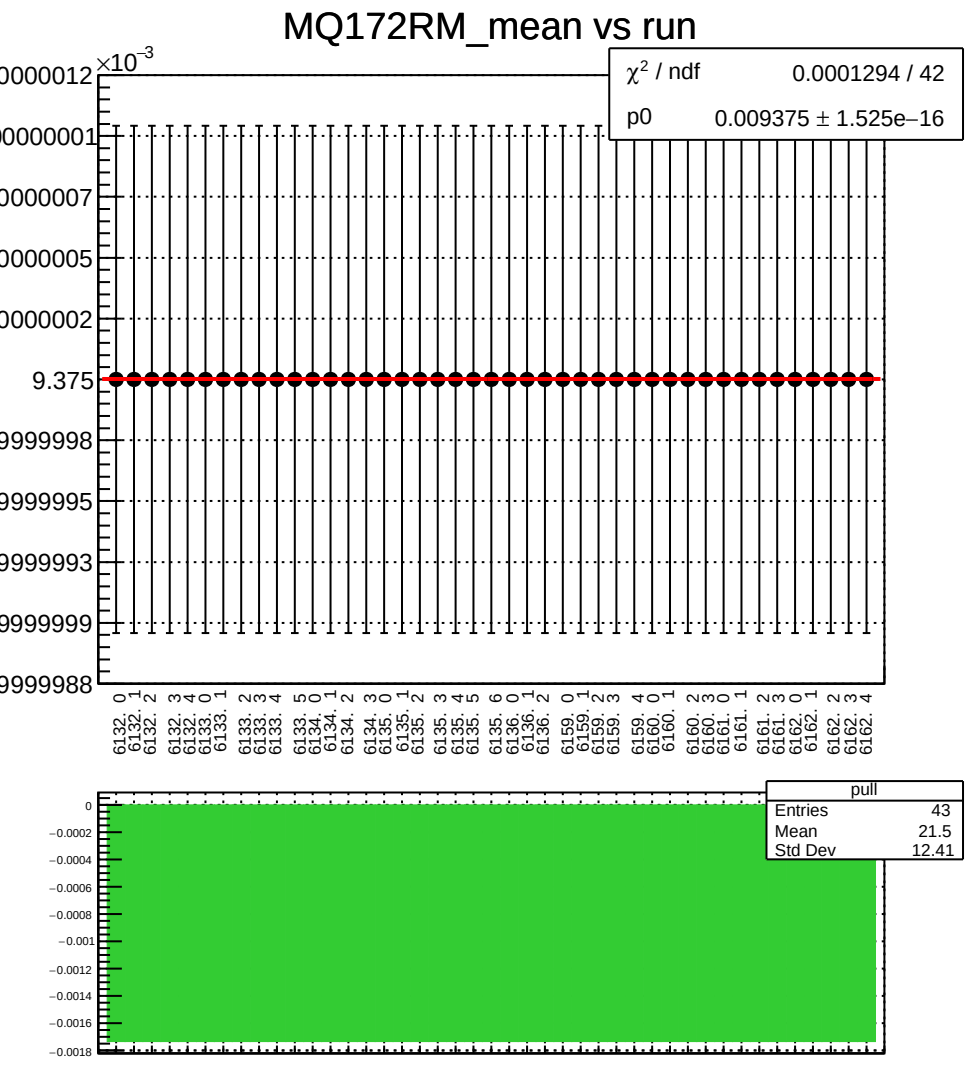

MQ171LM_mean vs run
χ² / ndf 0.0001294 / 42
p0 0.009375 ± 1.525e−16
×10⁻³
pull
Entries 43
Mean 21.5
Std Dev 12.41

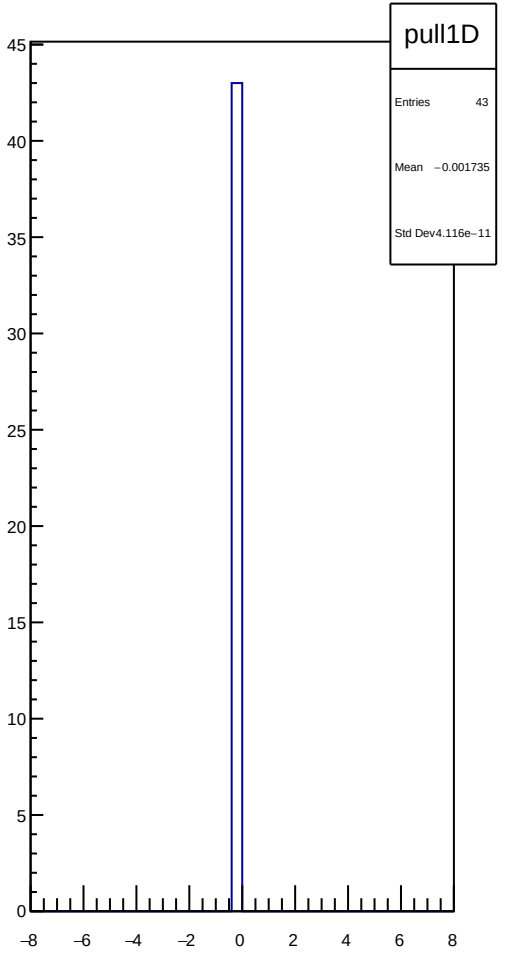

pull1D
Entries 43
Mean −0.001735
Std Dev4.116e−11

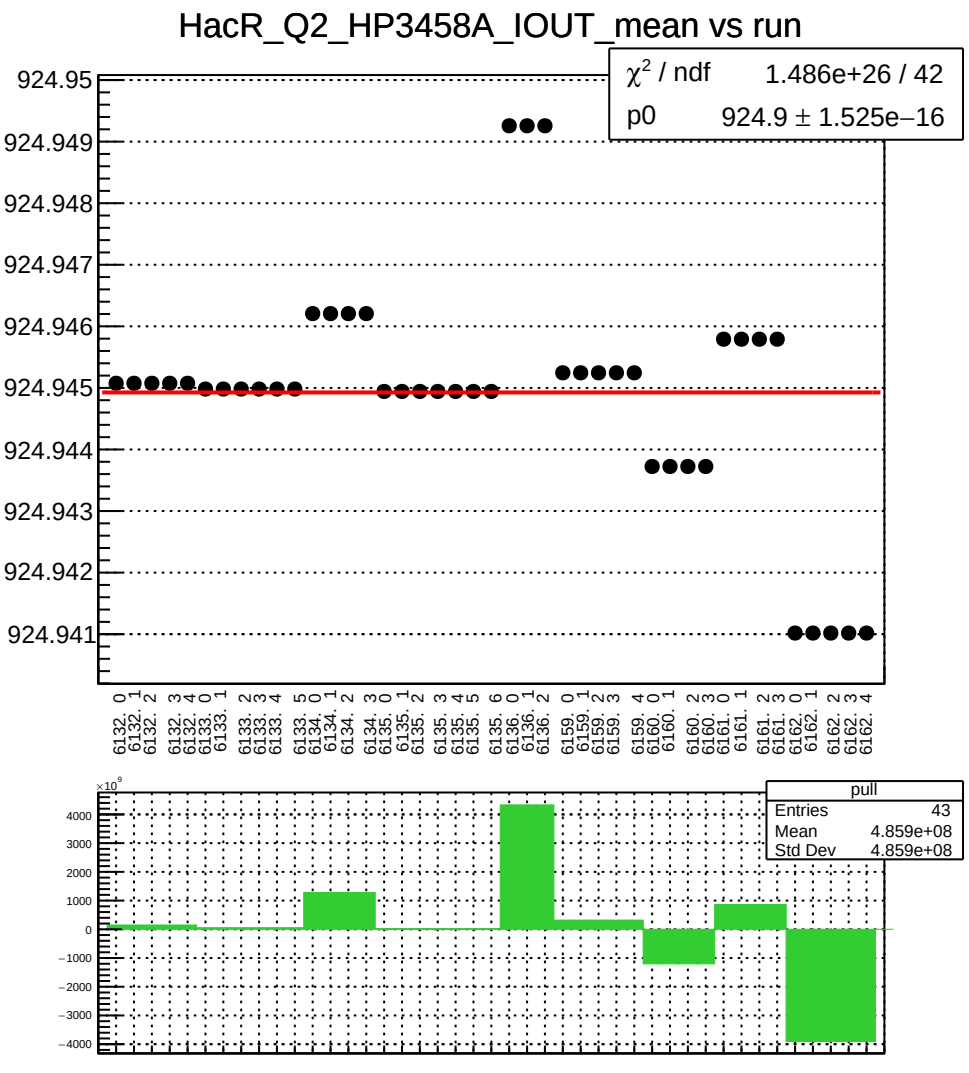

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.449e+27 / 42
p0 931.8 ± 1.525e−16
931.8
931.795
931.79
931.785
931.78
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
×10¹²
8
6
4
2
0
−2
−4
−6
−8
−10
−12
−14
pull
Entries 43
Mean −1.888e+09
Std Dev 1.888e+09
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

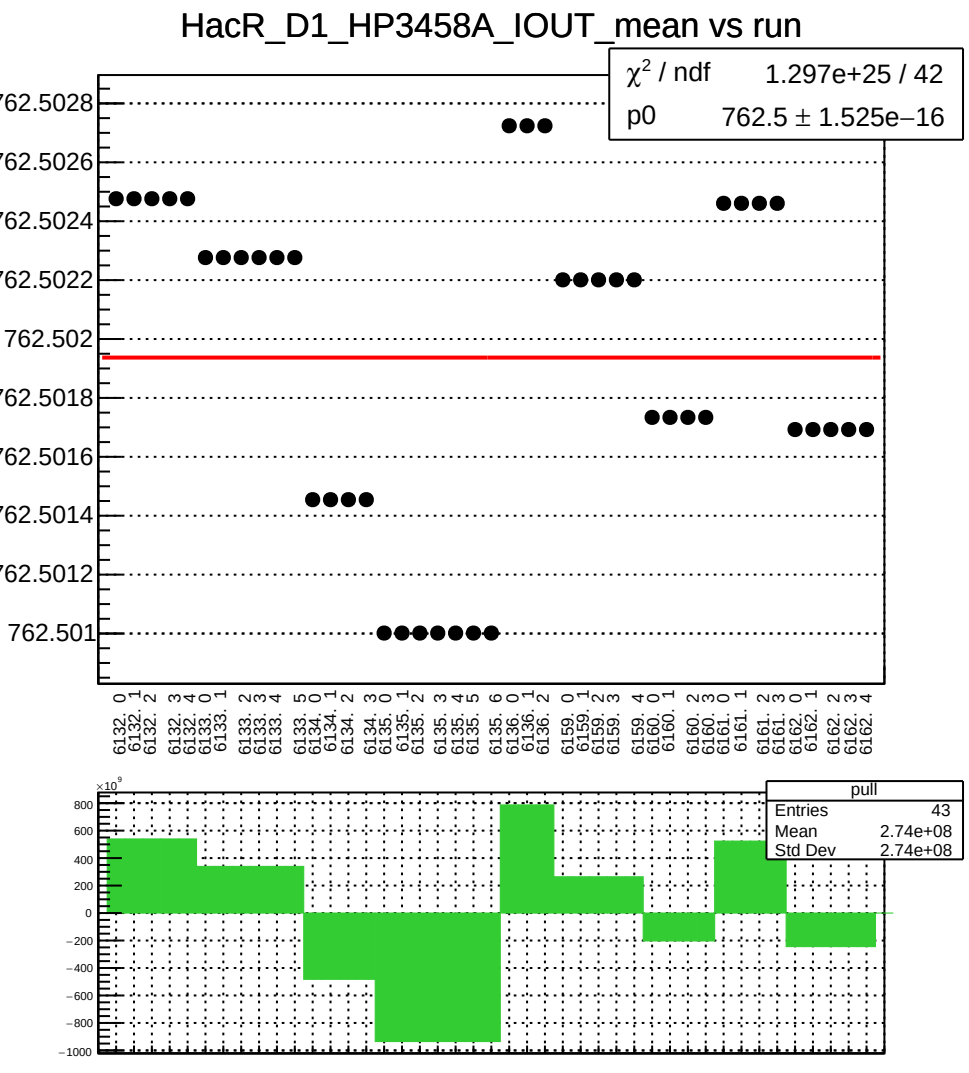

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 3.847e+26 / 42
p0 741.5 ± 1.525e−16
741.523
741.522
741.521
741.52
741.519
741.518
741.517
741.516
741.515
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 43
Mean 1.772e+09
Std Dev 1.772e+09
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

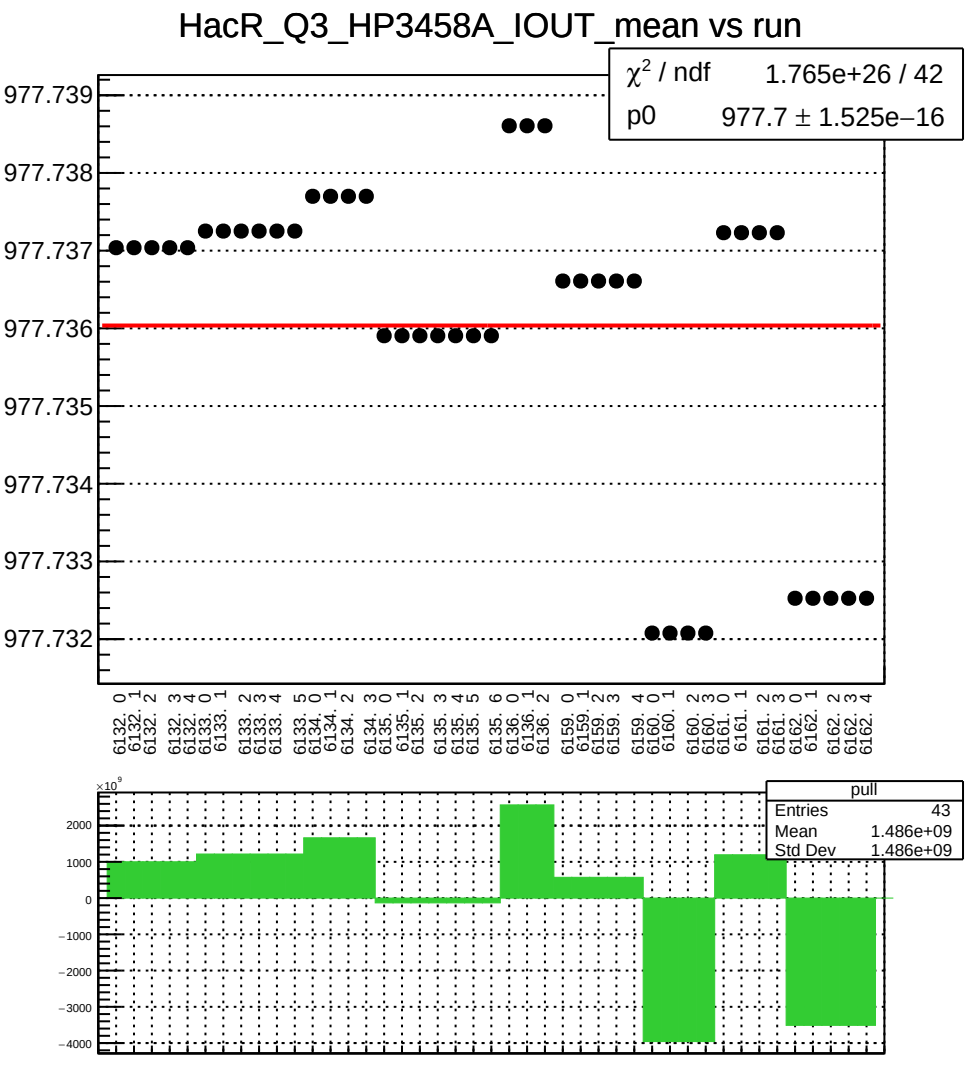

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 6.46e+26 / 42
p0 980.8 ± 1.525e−16
980.828
980.826
980.824
980.822
980.82
980.818
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
×10⁹
4000
2000
0
−2000
−4000
pull
Entries 43
Mean −1.634e+09
Std Dev 1.634e+09
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

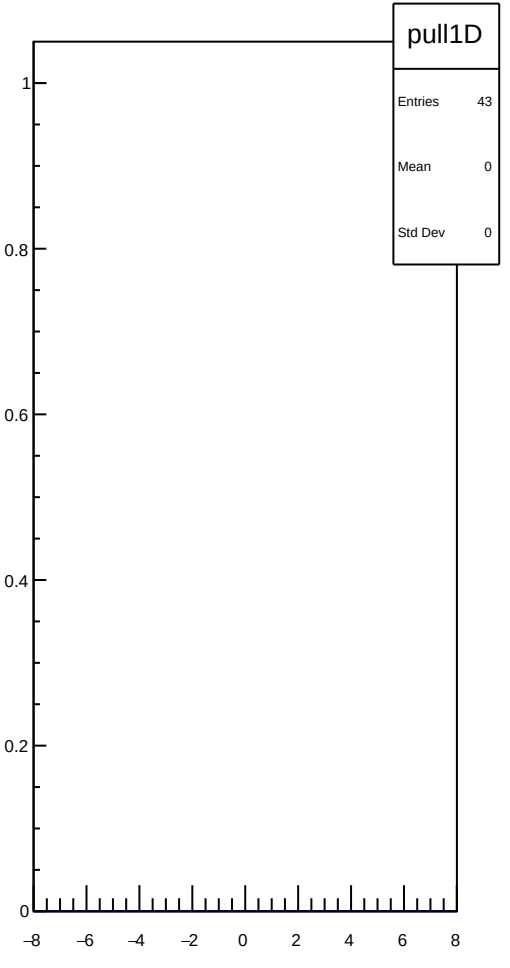

MQ172RM_mean vs run
χ² / ndf 0.0001294 / 42
p0 0.009375 ± 1.525e−16
×10⁻³
pull
Entries 43
Mean 21.5
Std Dev 12.41

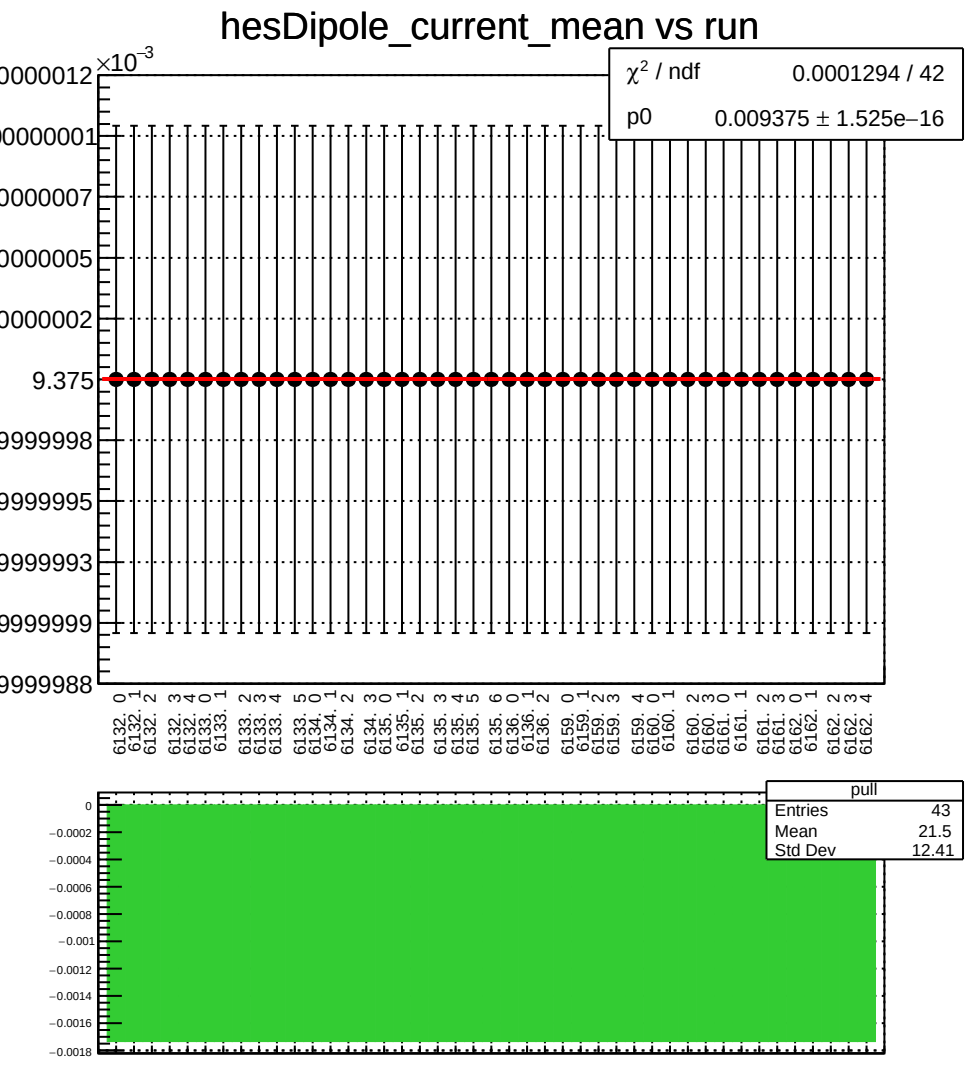

pull1D
Entries 43
Mean −0.001735
Std Dev4.116e−11

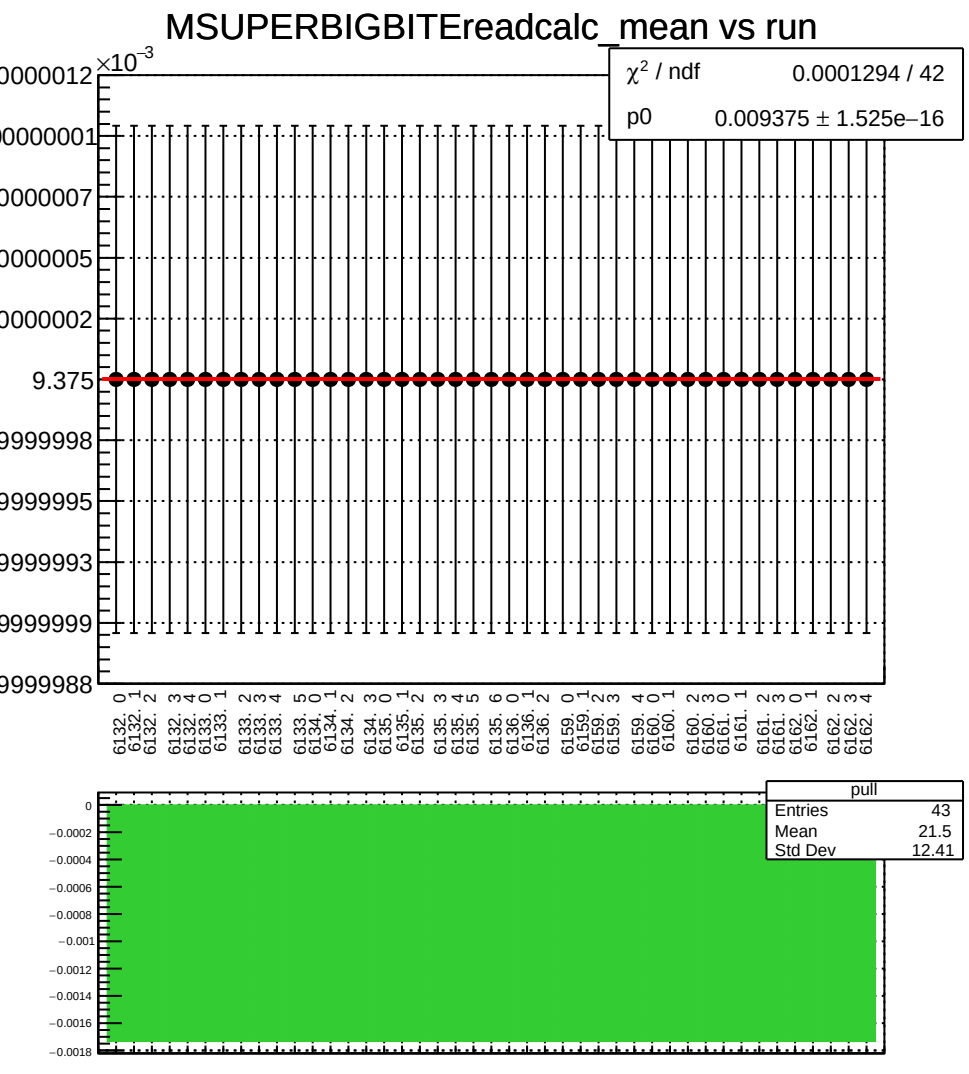

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.486e+26 / 42
p0 924.9 ± 1.525e−16
924.95
924.949
924.948
924.947
924.946
924.945
924.944
924.943
924.942
924.941
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 43
Mean 4.859e+08
Std Dev 4.859e+08
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

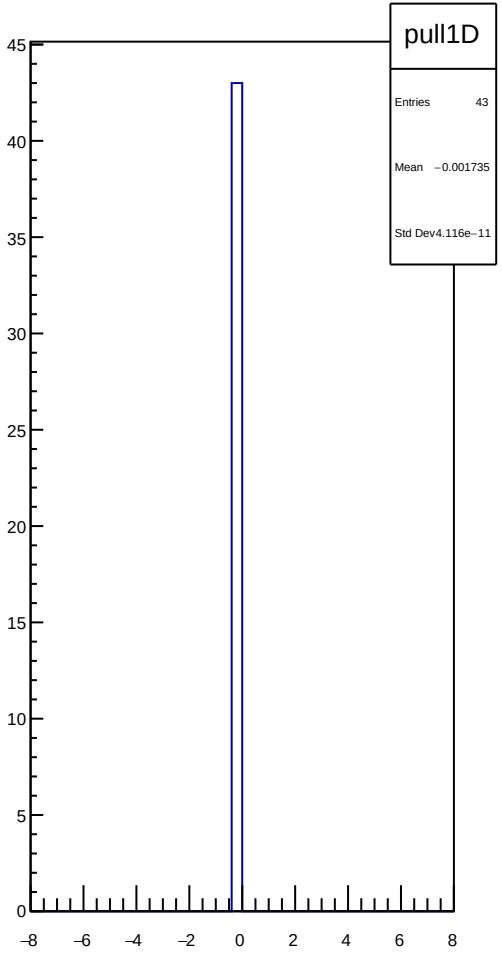

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.297e+25 / 42
p0 762.5 ± 1.525e−16
762.5028
762.5026
762.5024
762.5022
762.502
762.5018
762.5016
762.5014
762.5012
762.501
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
×10⁹
800
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 43
Mean 2.74e+08
Std Dev 2.74e+08
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

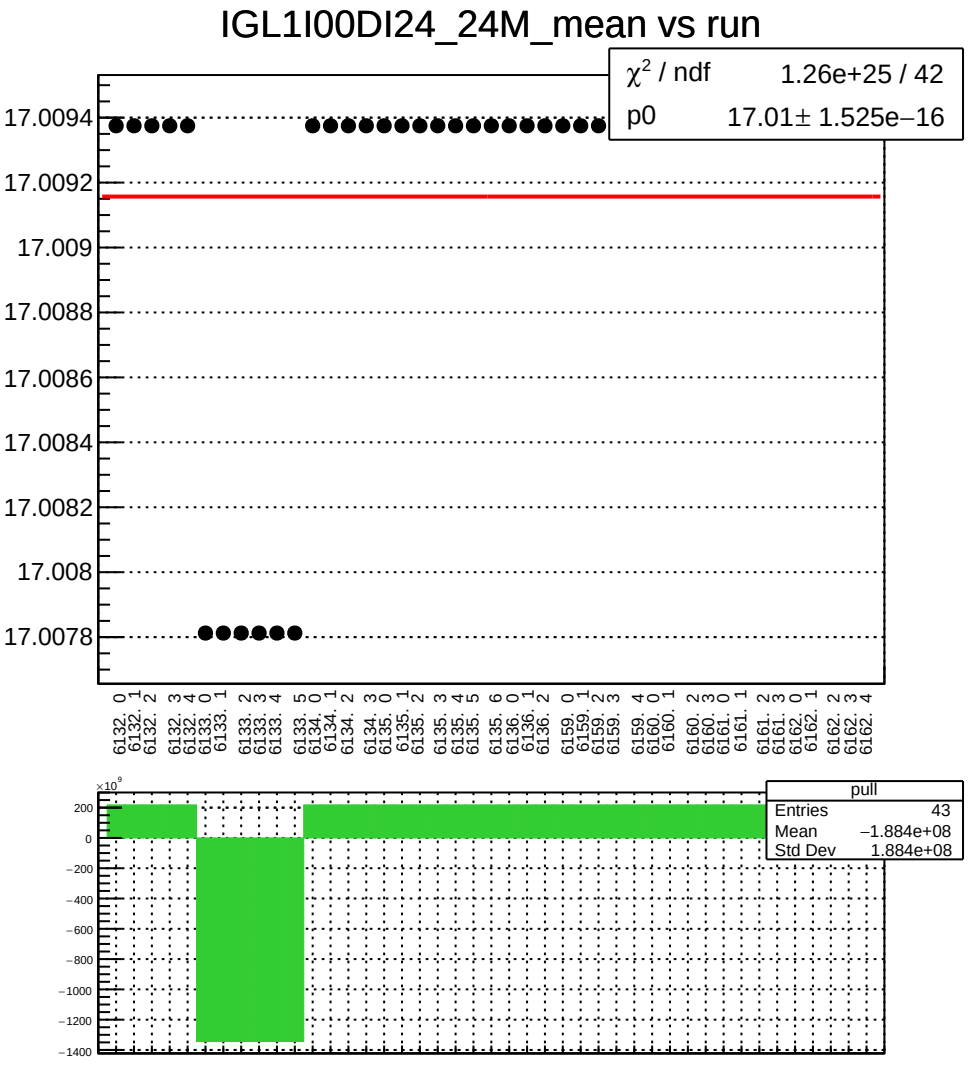

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.765e+26 / 42
p0 977.7 ± 1.525e−16
977.739
977.738
977.737
977.736
977.735
977.734
977.733
977.732
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
×10⁹
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 43
Mean 1.486e+09
Std Dev 1.486e+09

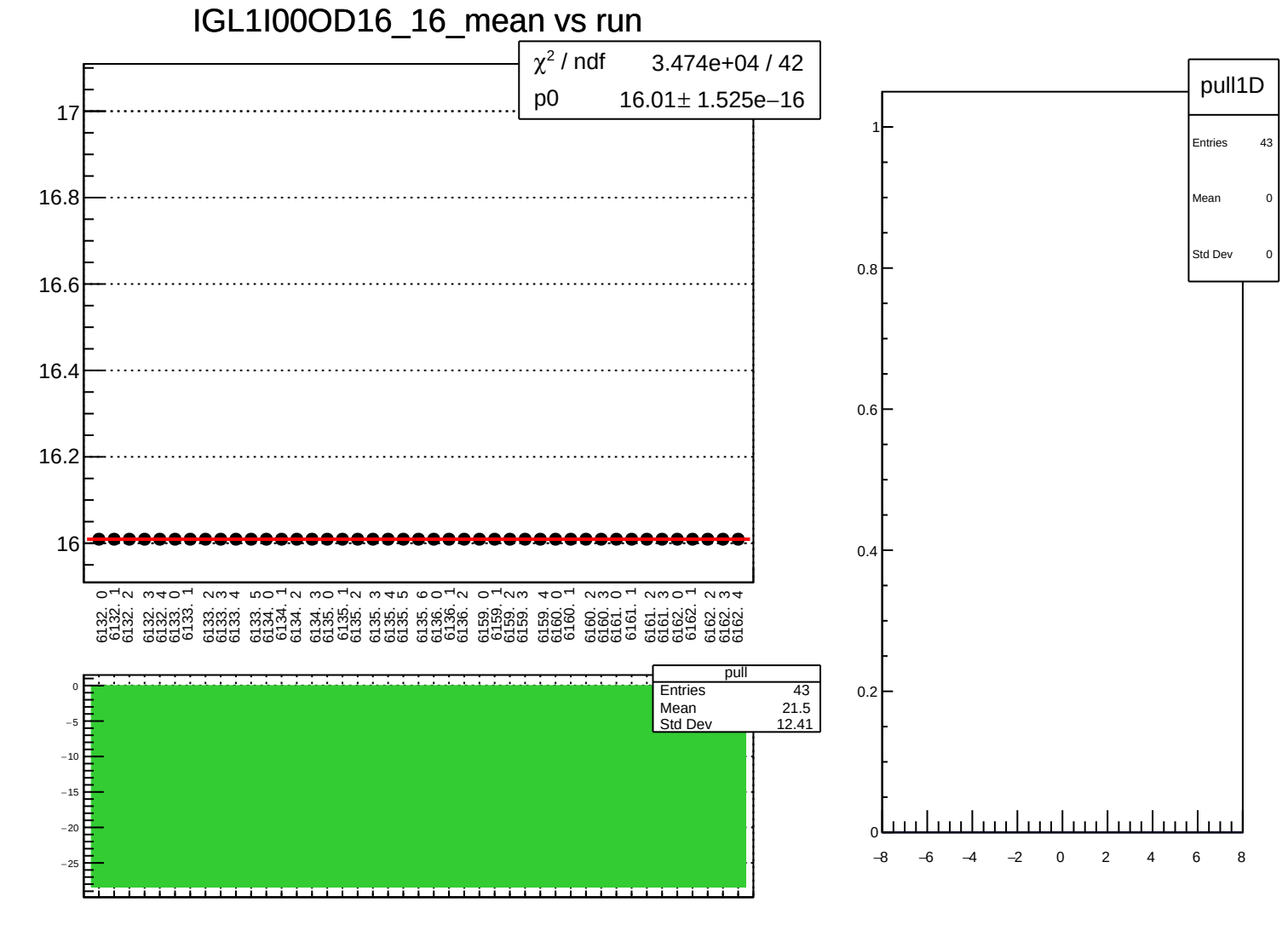

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

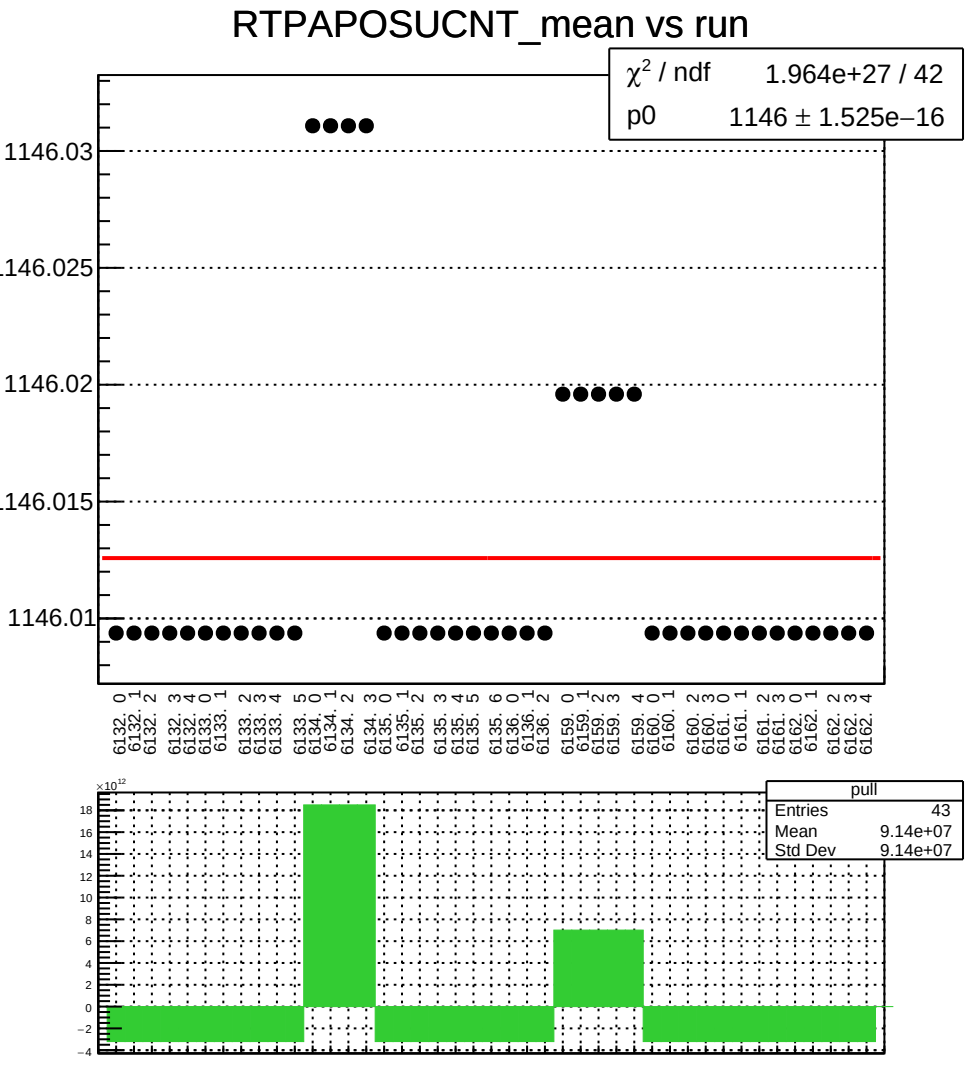

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.0001294 / 42
p0 0.009375 ± 1.525e−16
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
6132. 0
6132. 1
6132. 2
6132. 4
6132. 3
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 21.5
Std Dev 12.41
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
−0.0016
−0.0018
pull1D
Entries 43
Mean −0.001735
Std Dev4.116e−11
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

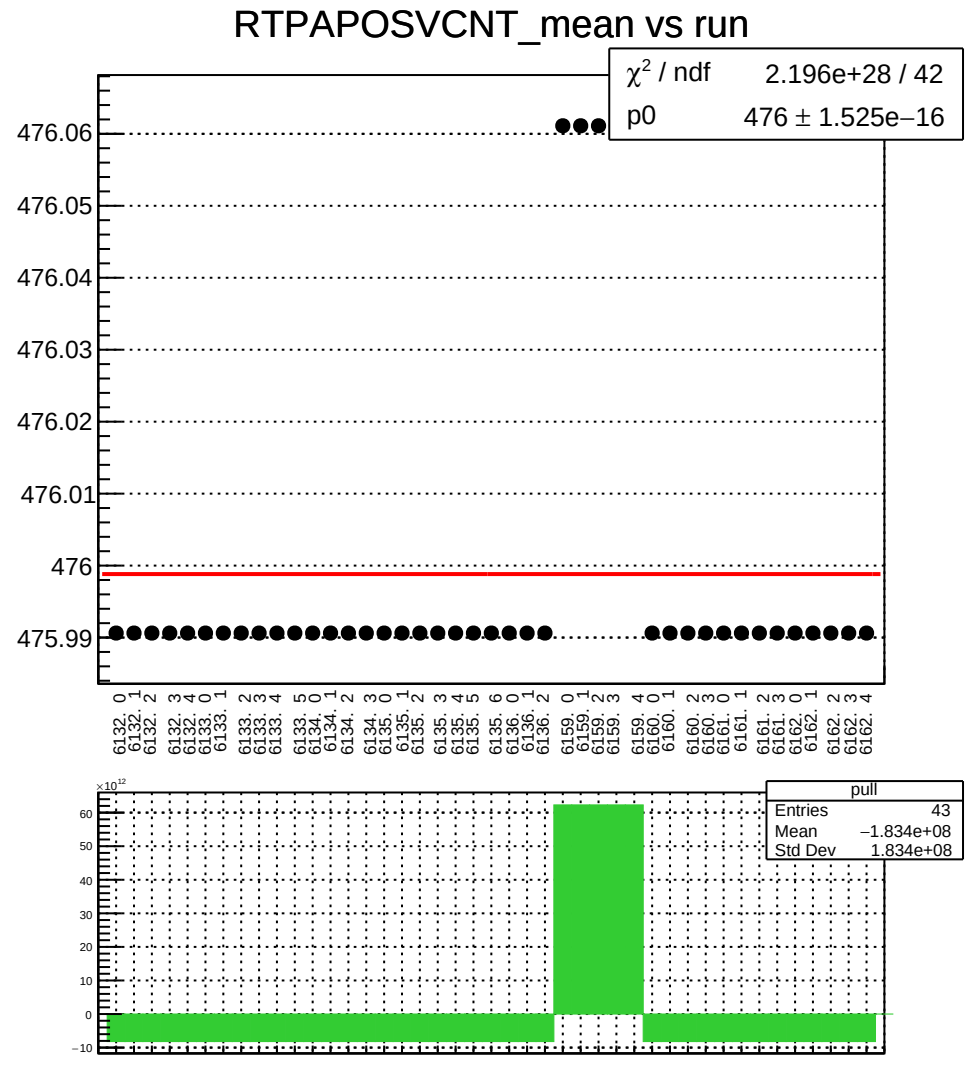

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.0001294 / 42
p0 0.009375 ± 1.525e−16
×10⁻³
pull
Entries 43
Mean 21.5
Std Dev 12.41


pull1D
Entries 43
Mean −0.001735
Std Dev4.116e−11


IGL1I00DI24_24M_mean vs run
χ² / ndf 1.26e+25 / 42
p0 17.01± 1.525e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
×10⁹
200
0
−200
−400
−600
−800
−1000
−1200
−1400
pull
Entries 43
Mean −1.884e+08
Std Dev 1.884e+08
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


IGL1I00OD16_16_mean vs run
χ² / ndf 3.474e+04 / 42
p0 16.01± 1.525e−16
17
16.8
16.6
16.4
16.2
16
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 43
Mean 21.5
Std Dev 12.41
0
−5
−10
−15
−20
−25
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 1.964e+27 / 42
p0 1146 ± 1.525e−16
1146.03
1146.025
1146.02
1146.015
1146.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
×10¹²
pull
Entries 43
Mean 9.14e+07
Std Dev 9.14e+07
pull1D
Entries 43
Mean 0
Std Dev 0


RTPAPOSVCNT_mean vs run
χ² / ndf 2.196e+28 / 42
p0 476 ± 1.525e−16
476.06
476.05
476.04
476.03
476.02
476.01
476
475.99
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
×10¹²
60
50
40
30
20
10
0
−10
pull
Entries 43
Mean −1.834e+08
Std Dev 1.834e+08
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8