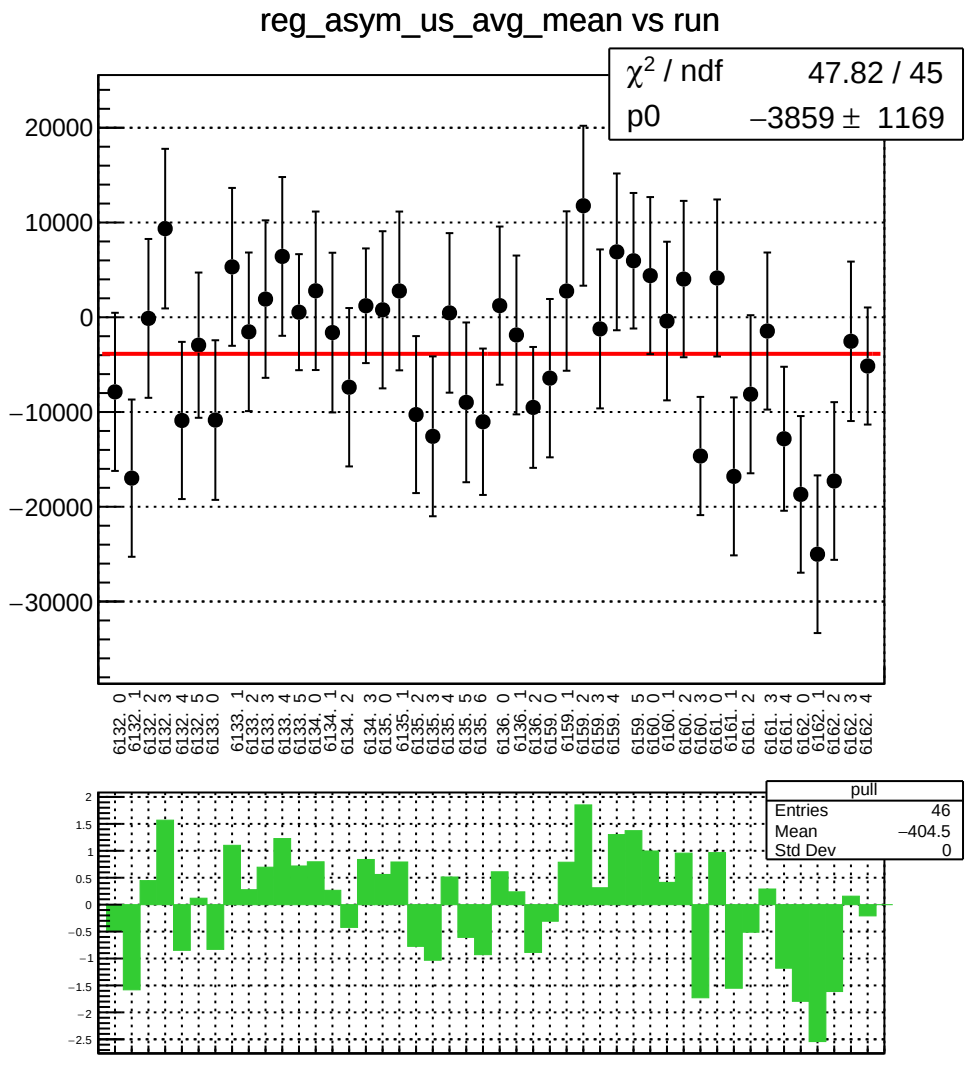
reg_asym_us_avg_mean vs run
χ² / ndf 47.82 / 45
p0 −3859 ± 1169
20000
10000
0
−10000
−20000
−30000
6132. 0
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6159. 2
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6160. 2
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6161. 0
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6161. 4
6162. 0
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6162. 4
pull
Entries 46
Mean −404.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean 0.007563
Std Dev 1.02
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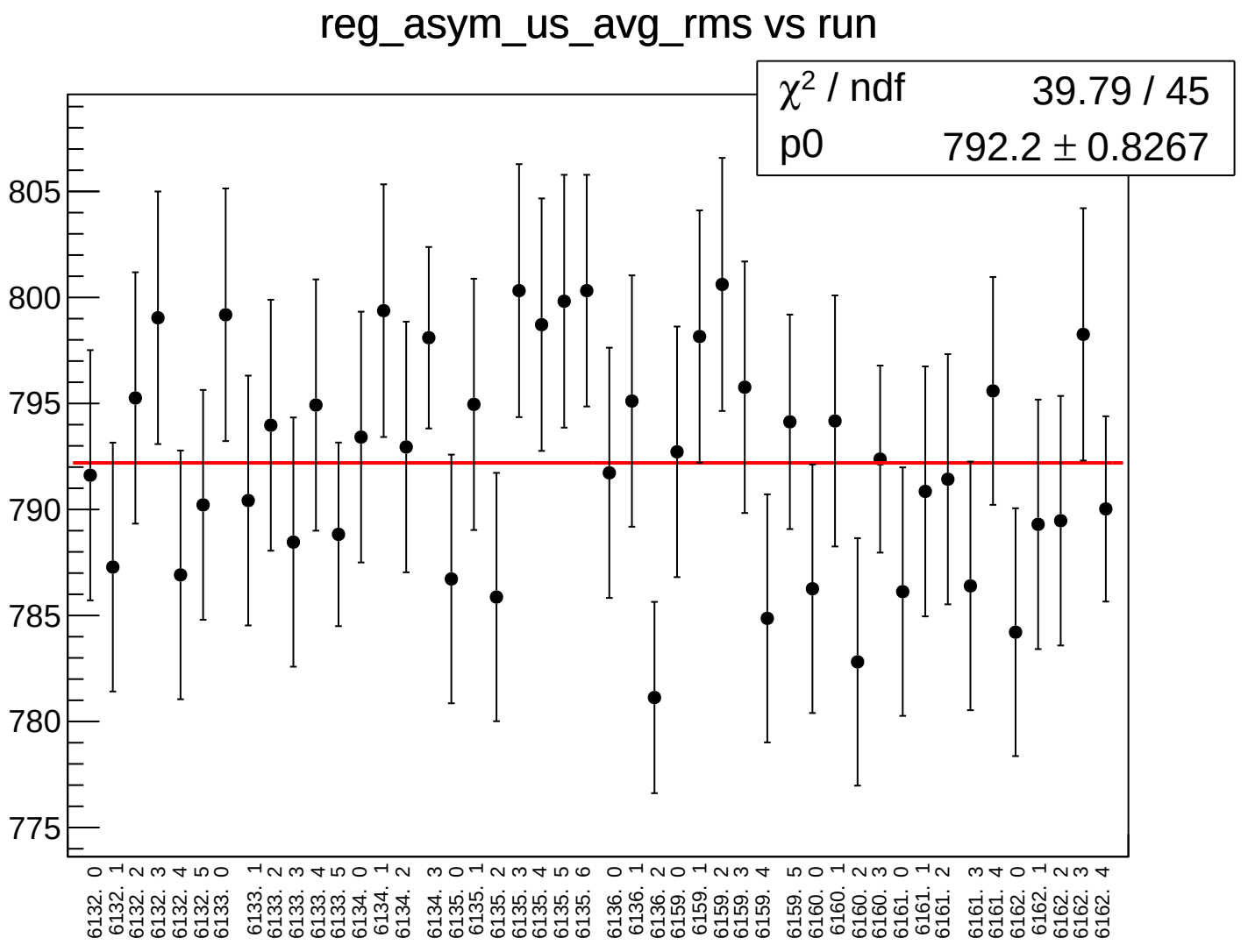
−4
−2
0
2
4
6
8


reg_asym_us_avg_rms vs run
χ^2 / ndf 39.79 / 45
p0 792.2 ± 0.8267
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800
795
790
785
780
775
6132. 0
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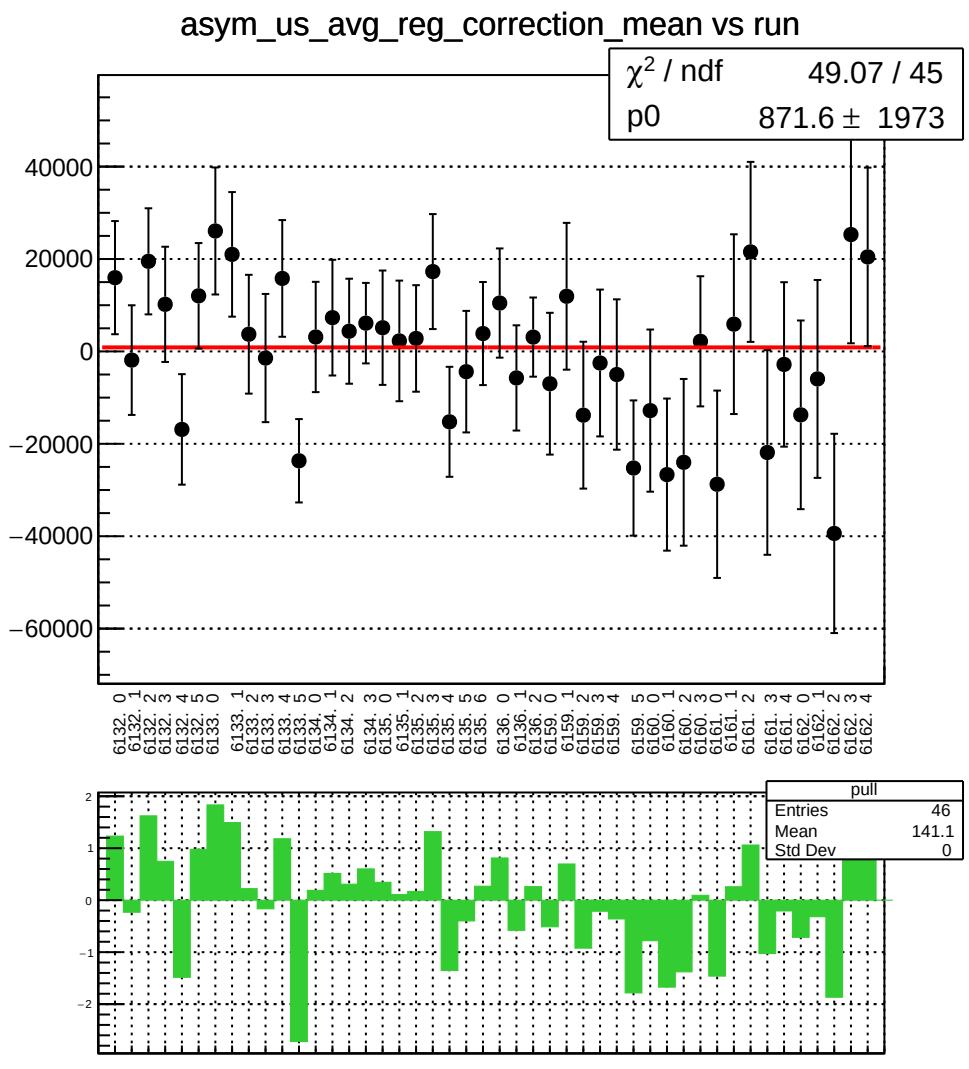
asym_us_avg_reg_correction_mean vs run
χ² / ndf 49.07 / 45
p0 871.6 ± 1973
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0
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−40000
−60000
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6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 141.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.03896
Std Dev 1.032
10
8
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−8
−6
−4
−2
0
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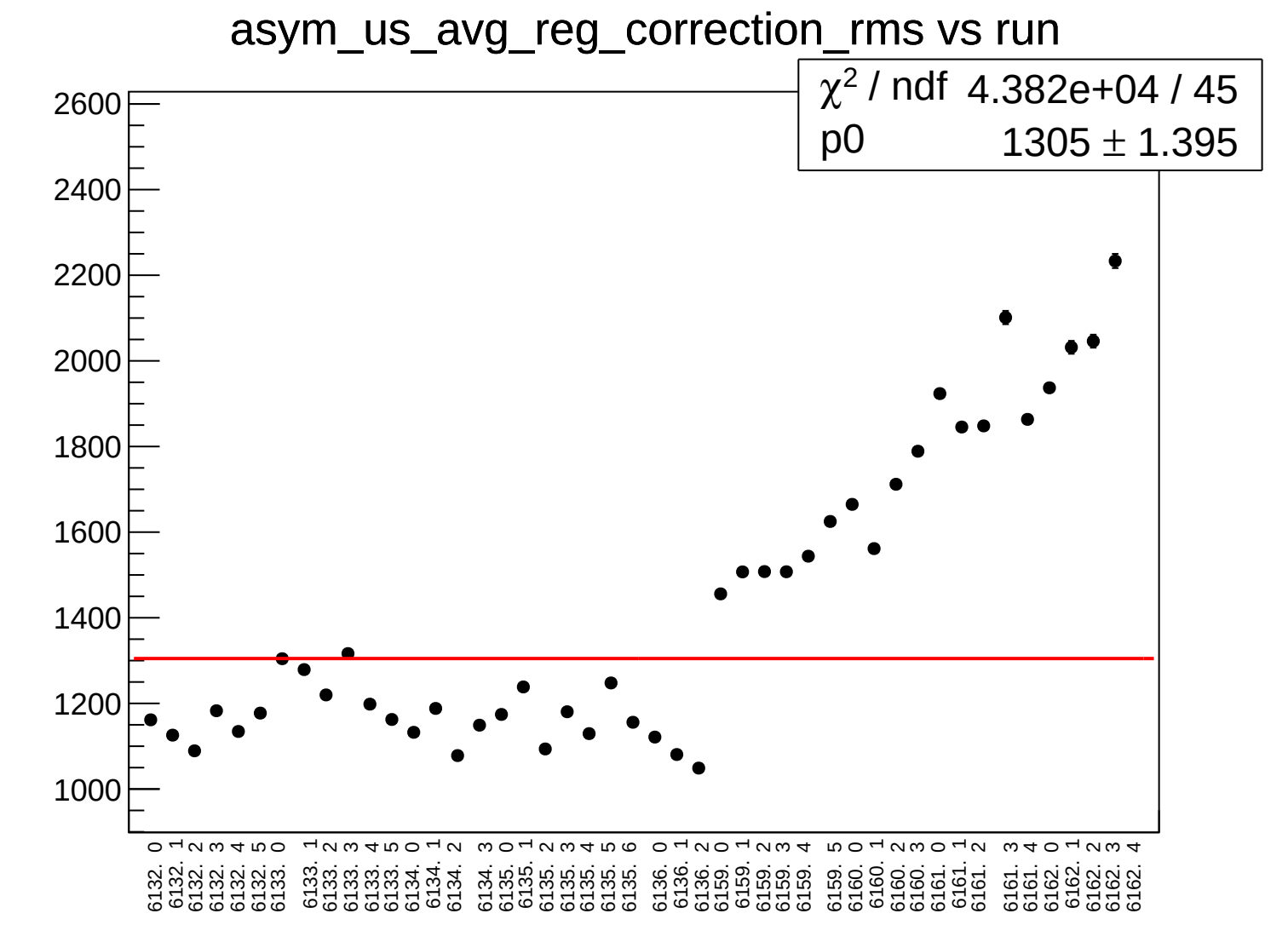
4
6
8


asym_us_avg_reg_correction_rms vs run
χ² / ndf 4.382e+04 / 45
p0 1305 ± 1.395
2600
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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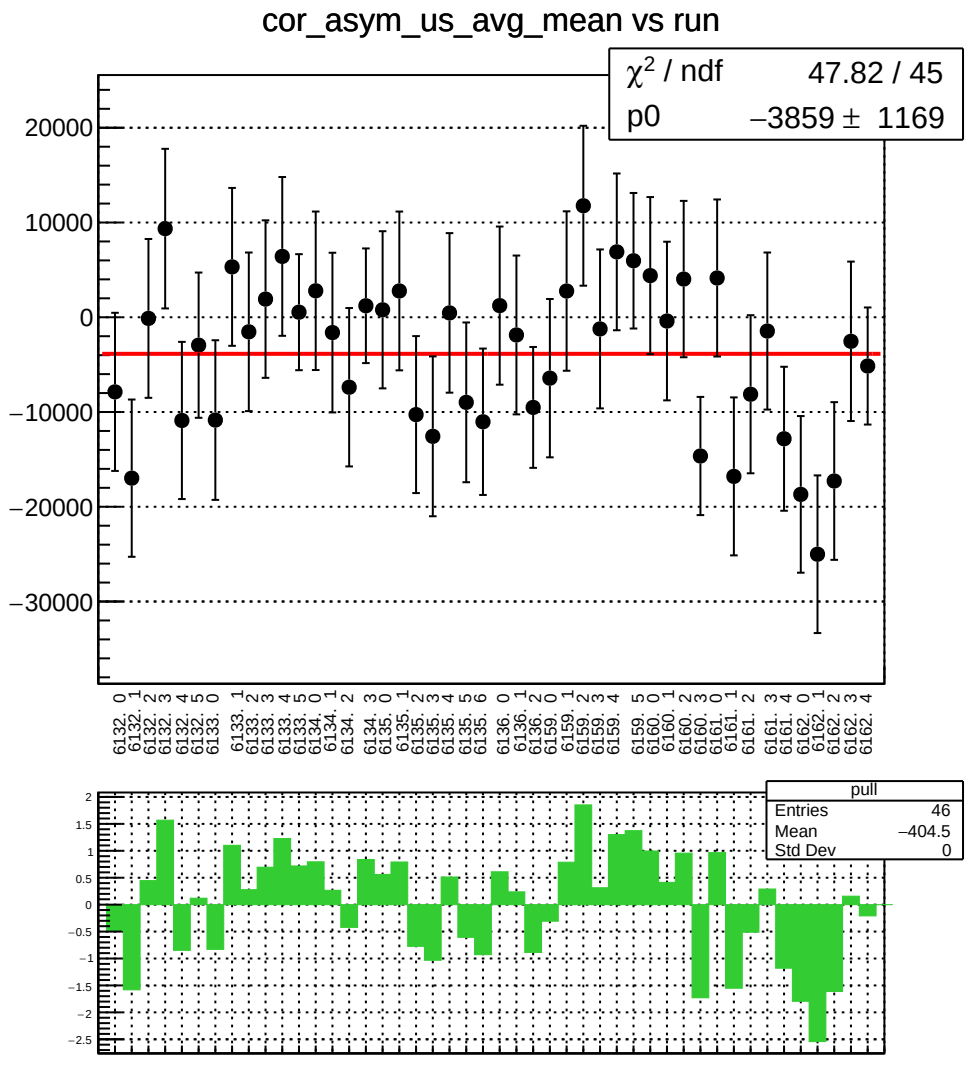
cor_asym_us_avg_mean vs run
χ² / ndf 47.82 / 45
p0 −3859 ± 1169
20000
10000
0
−10000
−20000
−30000
6132. 0
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6132. 2
6132. 3
6132. 4
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6134. 0
6134. 1
6134. 2
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6159. 3
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6160. 2
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6161. 0
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6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −404.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean 0.007563
Std Dev 1.02
10
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6
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2
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−4
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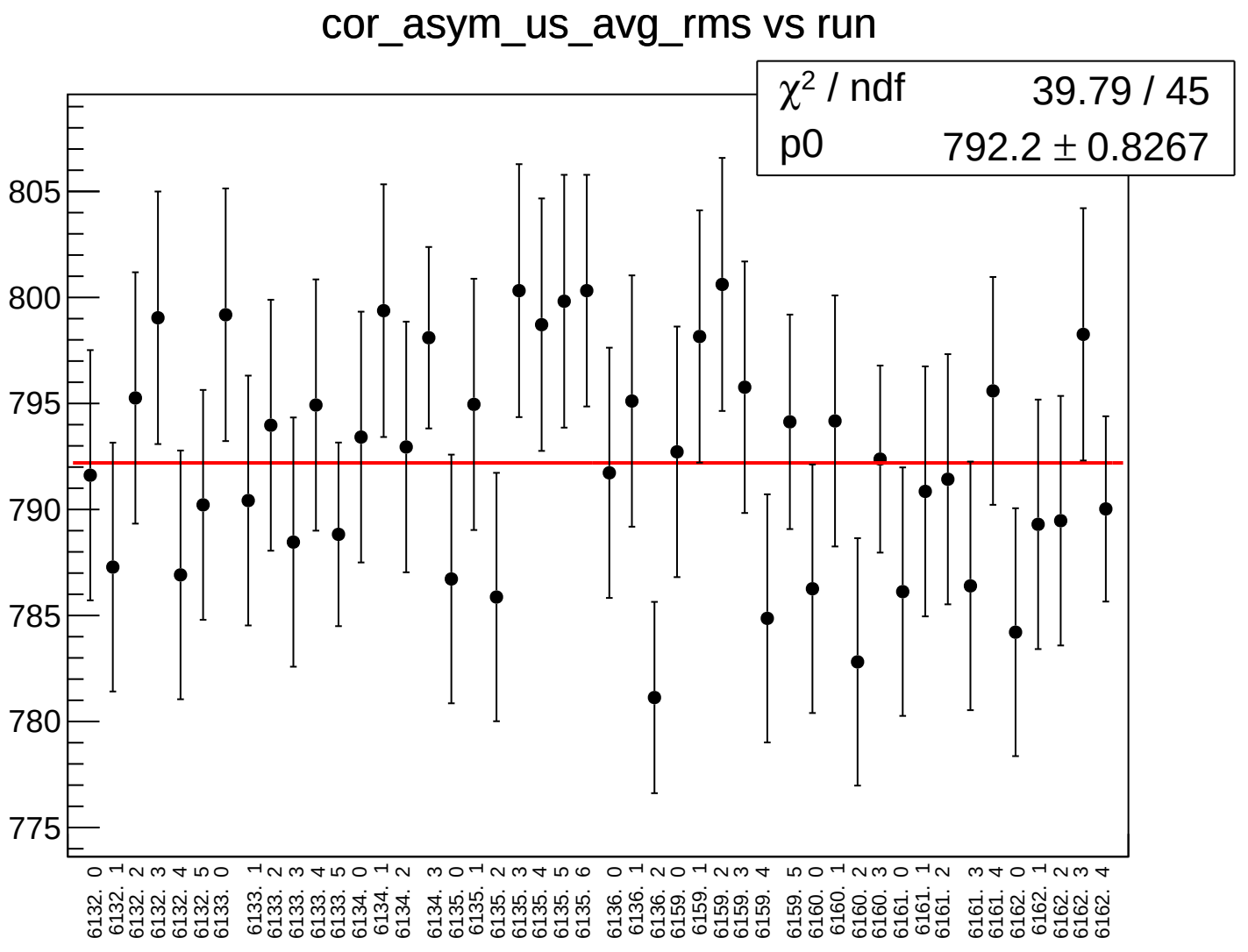
6
8


cor_asym_us_avg_rms vs run
χ^2 / ndf 39.79 / 45
p0 792.2 ± 0.8267
805
800
795
790
785
780
775
6132. 0
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6132. 2
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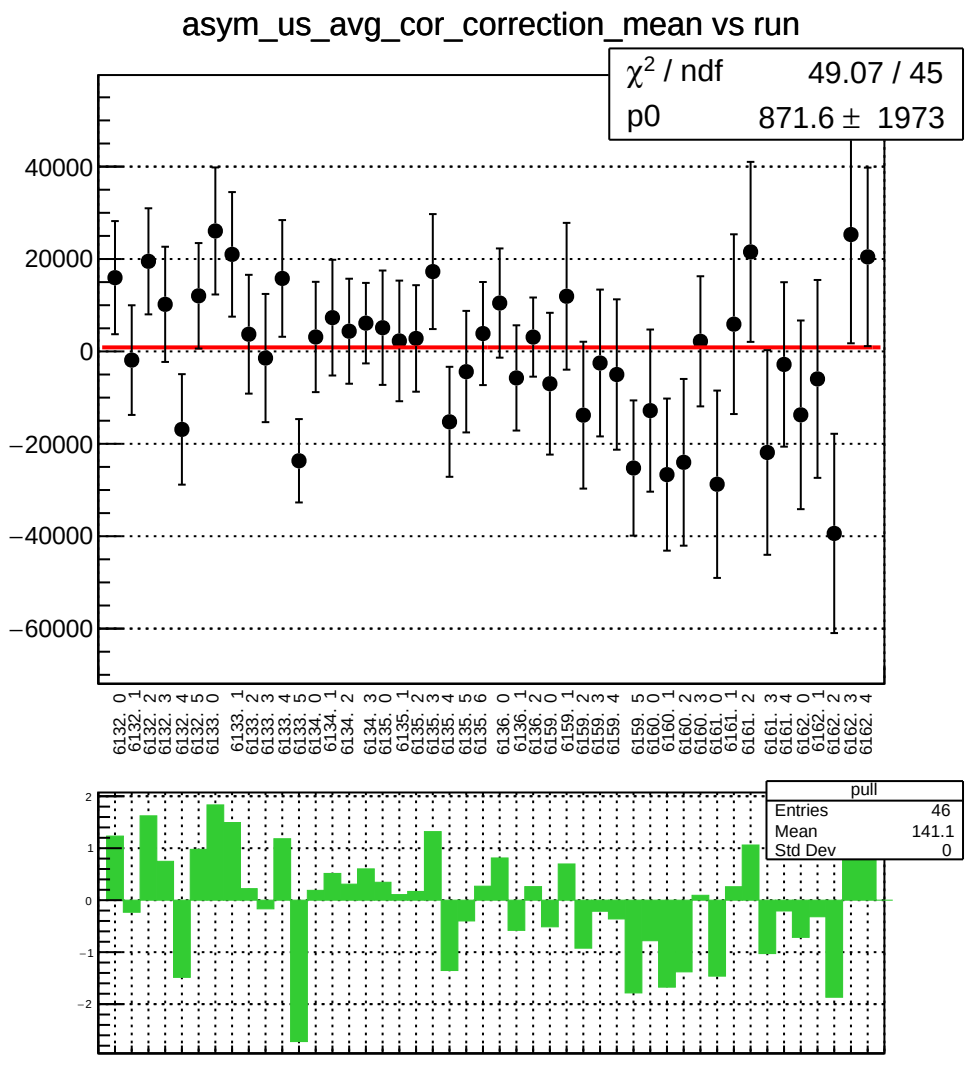
6162. 4


asym_us_avg_cor_correction_mean vs run
χ² / ndf 49.07 / 45
p0 871.6 ± 1973
40000
20000
0
−20000
−40000
−60000
6132. 0
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6161. 4
6162. 0
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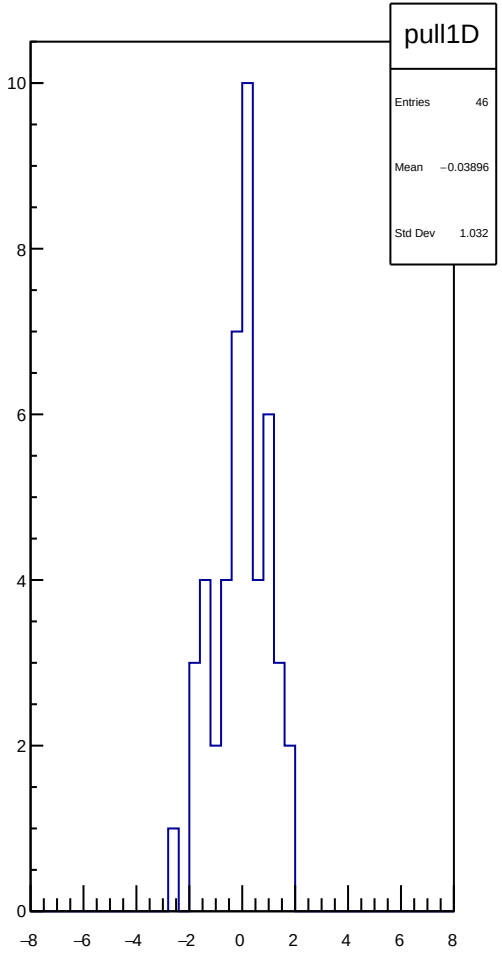
pull
Entries 46
Mean 141.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.03896
Std Dev 1.032
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4
2
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−4
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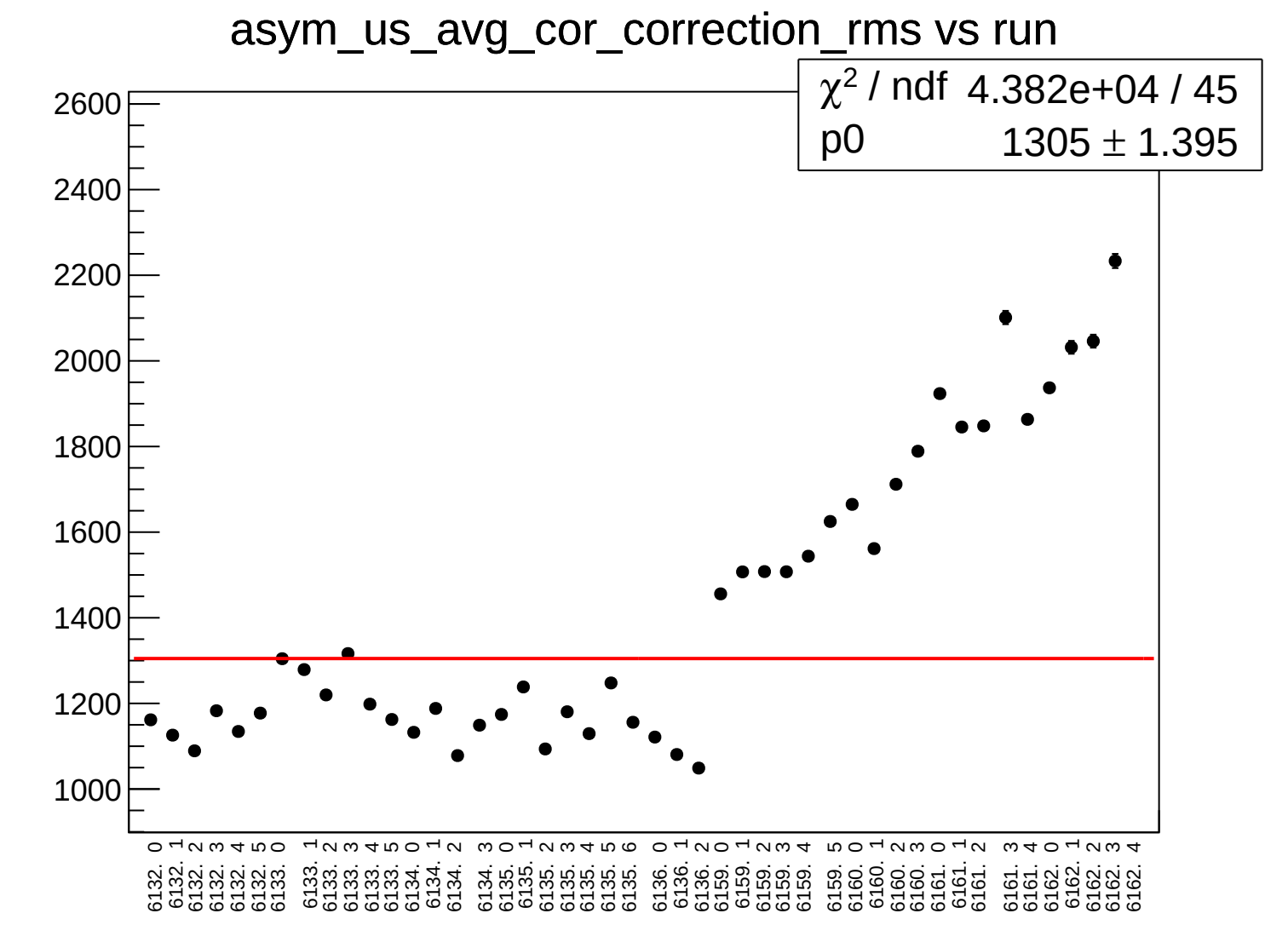
4
6
8


asym_us_avg_cor_correction_rms vs run
χ² / ndf 4.382e+04 / 45
p0 1305 ± 1.395
2600
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6160. 2
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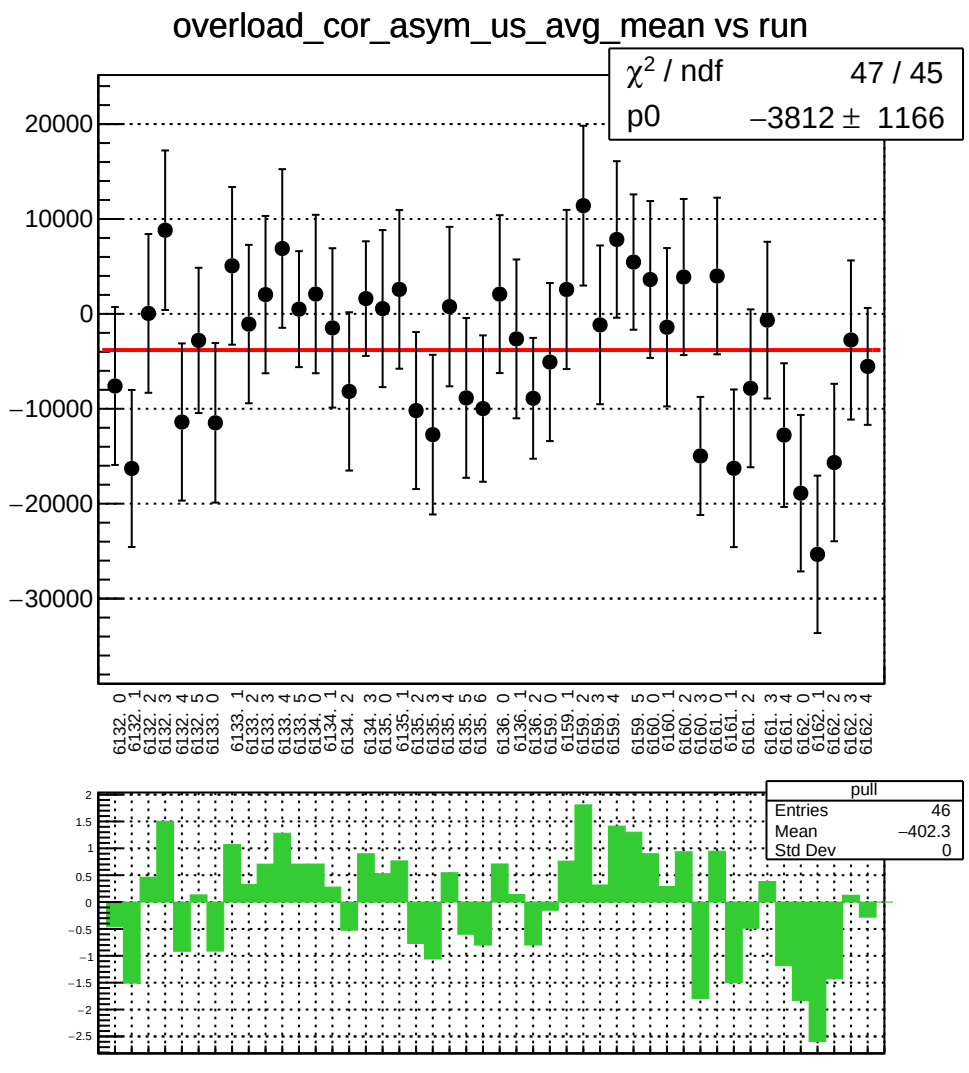
overload_cor_asym_us_avg_mean vs run
χ² / ndf 47 / 45
p0 −3812 ± 1166
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10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
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6162. 4
pull
Entries 46
Mean −402.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean 0.007538
Std Dev 1.011
9
8
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−4
−2
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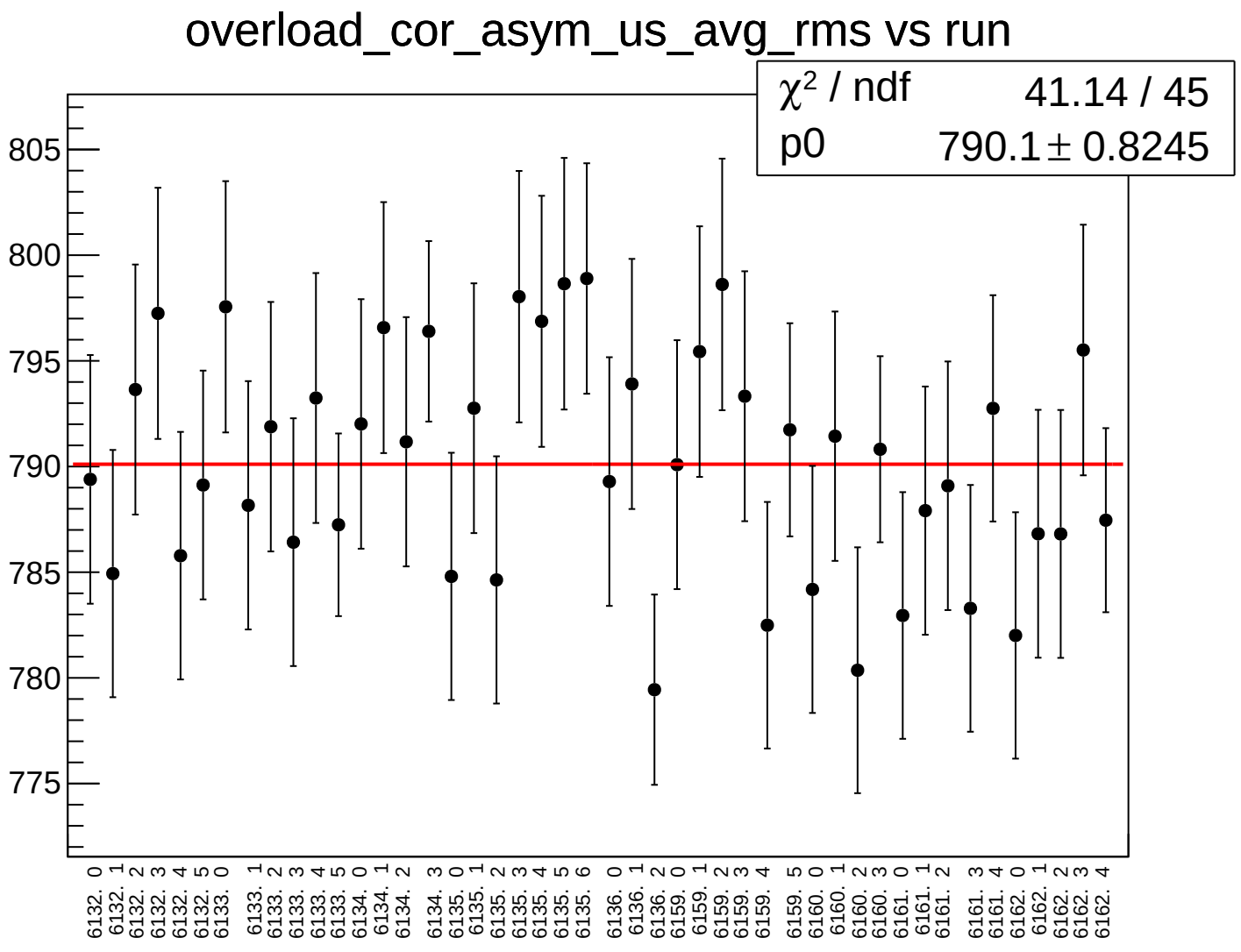
overload_cor_asym_us_avg_rms vs run
χ² / ndf 41.14 / 45
p0 790.1 ± 0.8245
805
800
795
790
785
780
775
6132. 0
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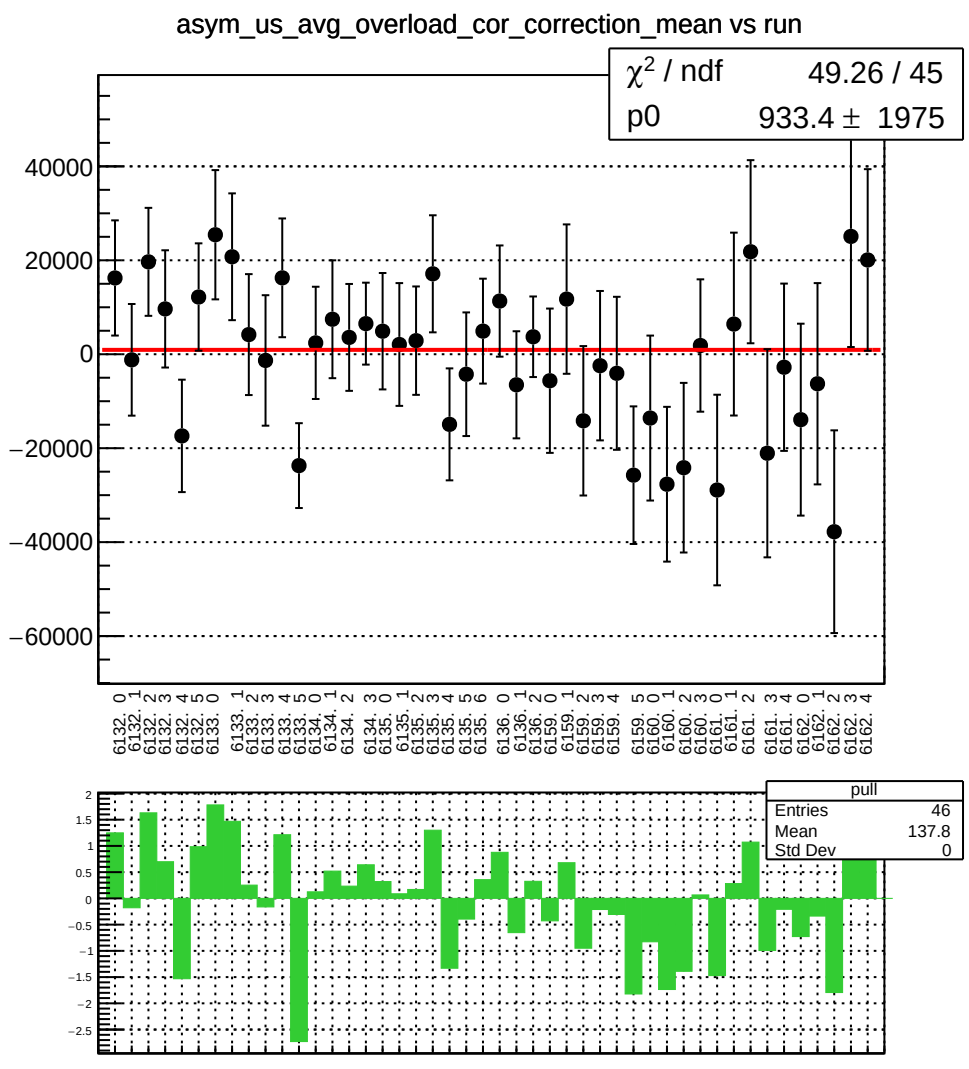
asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 49.26 / 45
p0 933.4 ± 1975
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0
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−40000
−60000
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6162. 3
6162. 4
pull
Entries 46
Mean 137.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.03981
Std Dev 1.034
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8
6
4
2
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−4
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0
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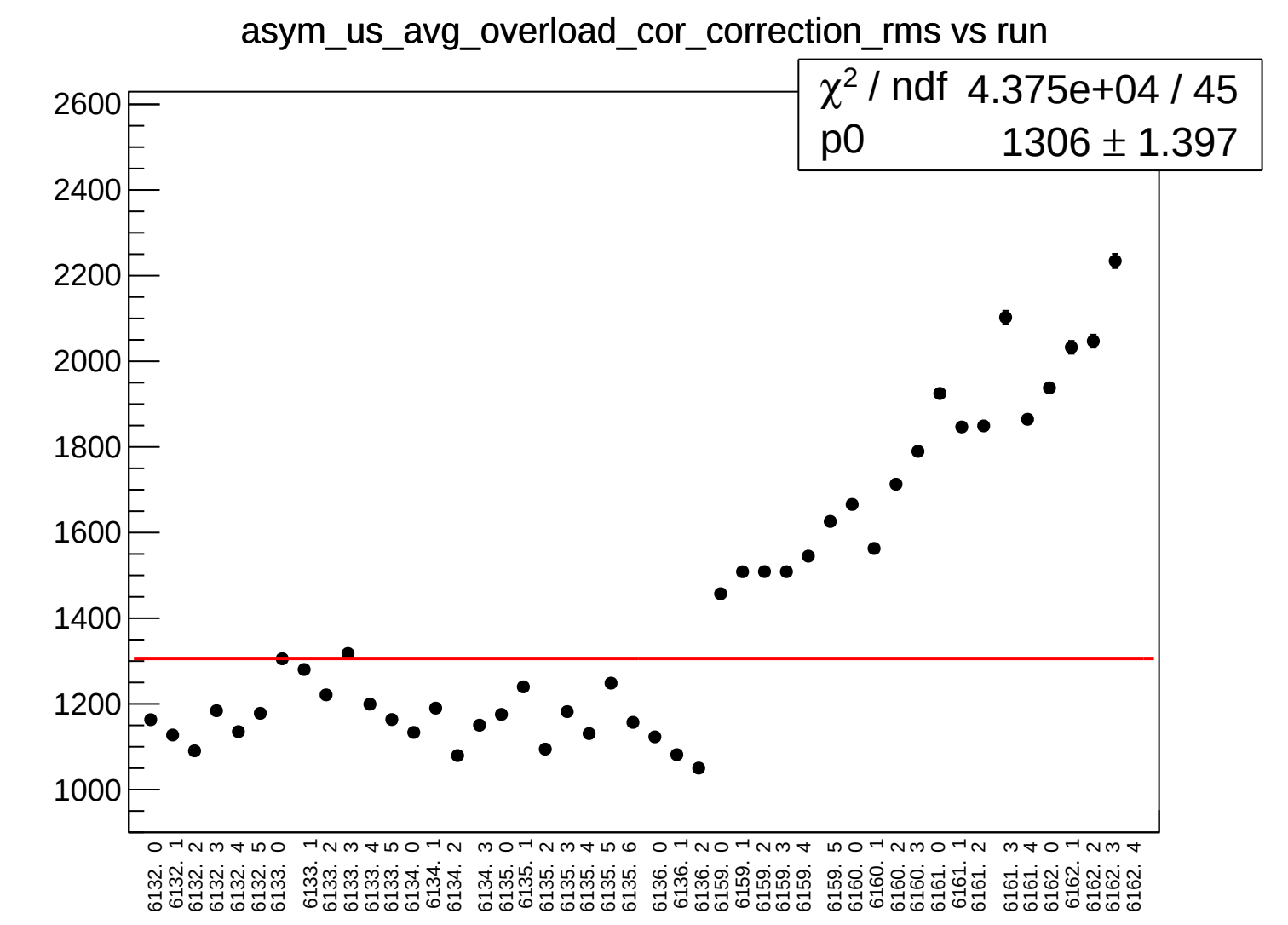
4
6
8


asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 4.375e+04 / 45
p0 1306 ± 1.397
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2400
2200
2000
1800
1600
1400
1200
1000
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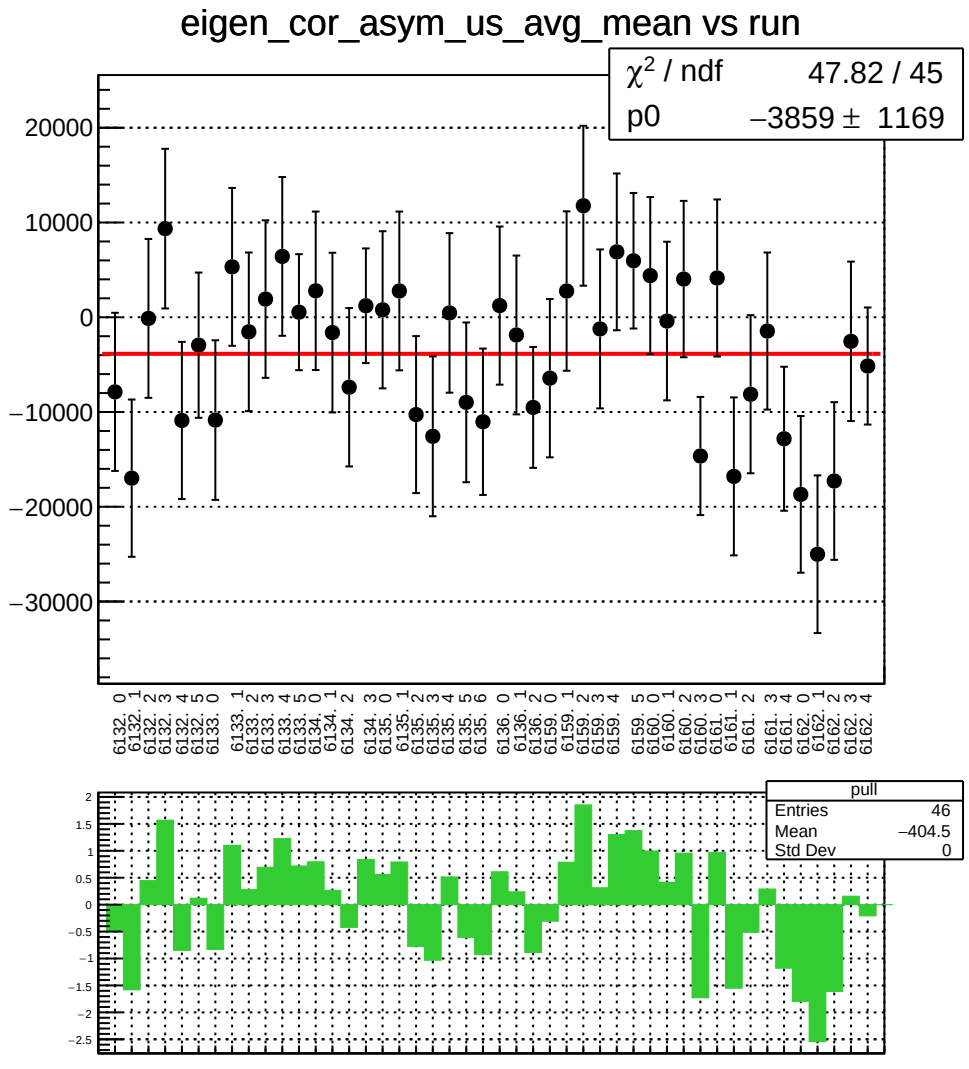
eigen_cor_asym_us_avg_mean vs run
χ² / ndf 47.82 / 45
p0 −3859 ± 1169
20000
10000
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−10000
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6162. 0
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6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −404.5
Std Dev 0
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1.5
1
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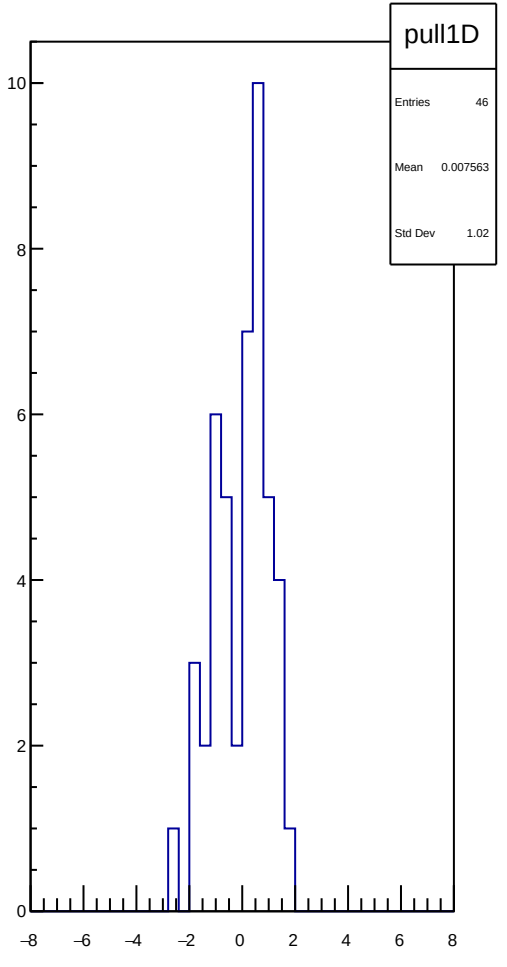
−1.5
−2
−2.5


pull1D
Entries 46
Mean 0.007563
Std Dev 1.02
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6
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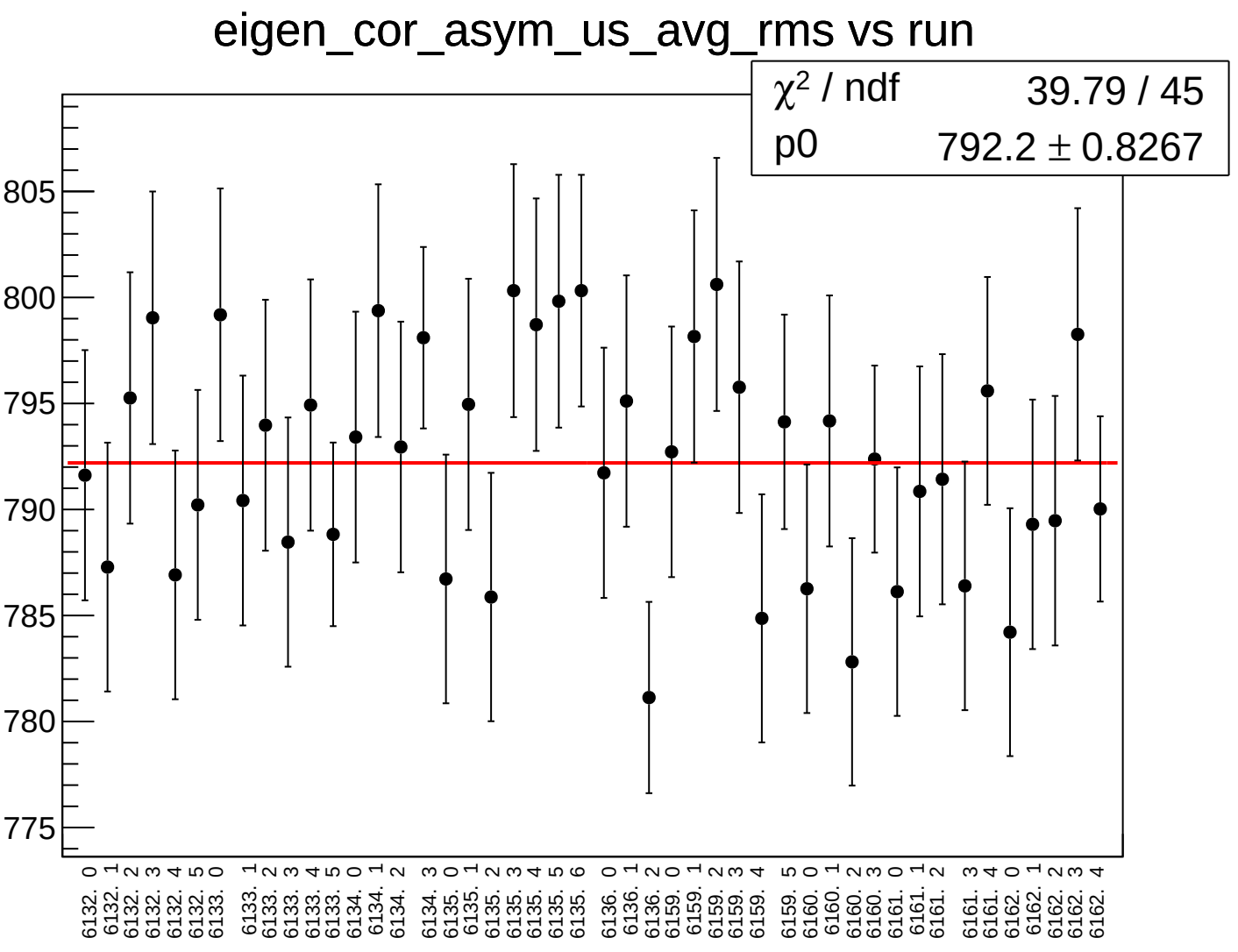
eigen_cor_asym_us_avg_rms vs run
χ² / ndf 39.79 / 45
p0 792.2 ± 0.8267
805
800
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790
785
780
775
6132. 0
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6132. 2
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6132. 4
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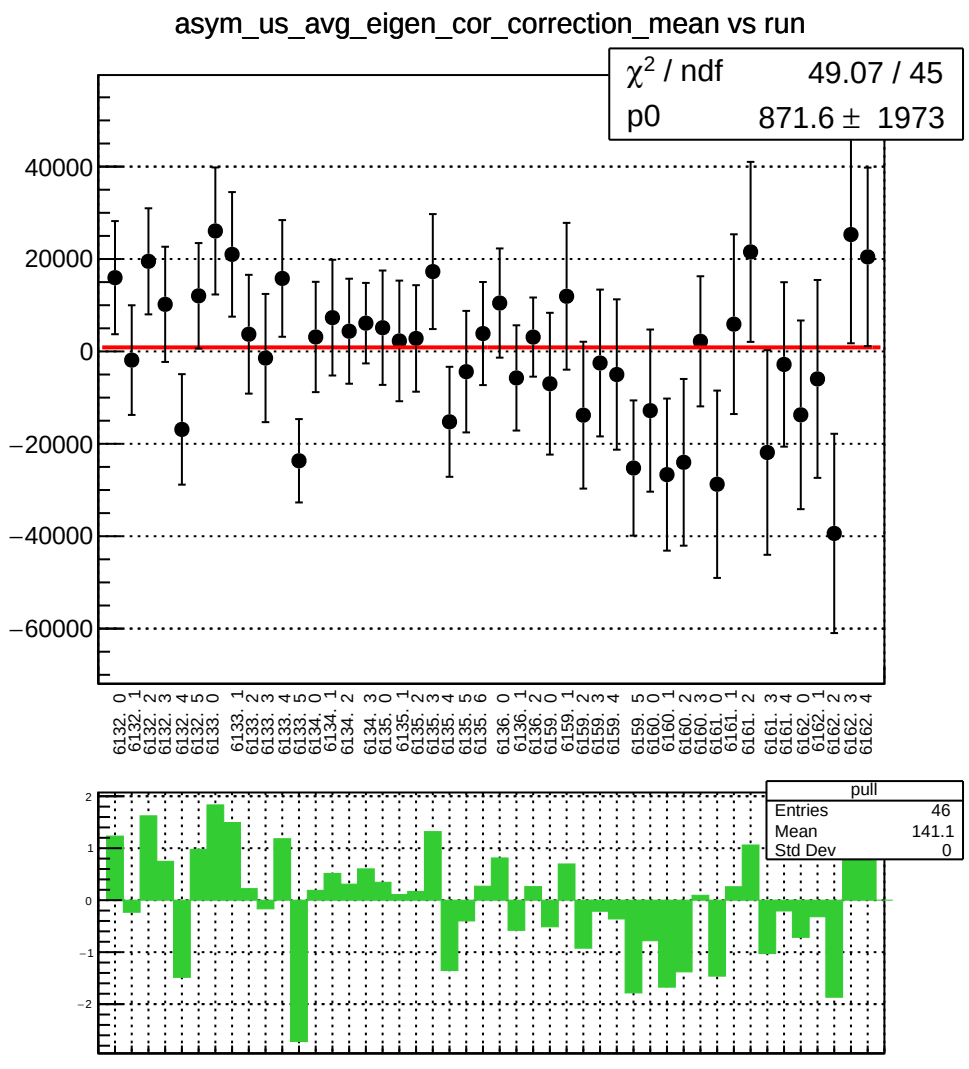
asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 49.07 / 45
p0 871.6 ± 1973
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−40000
−60000
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6132. 2
6132. 3
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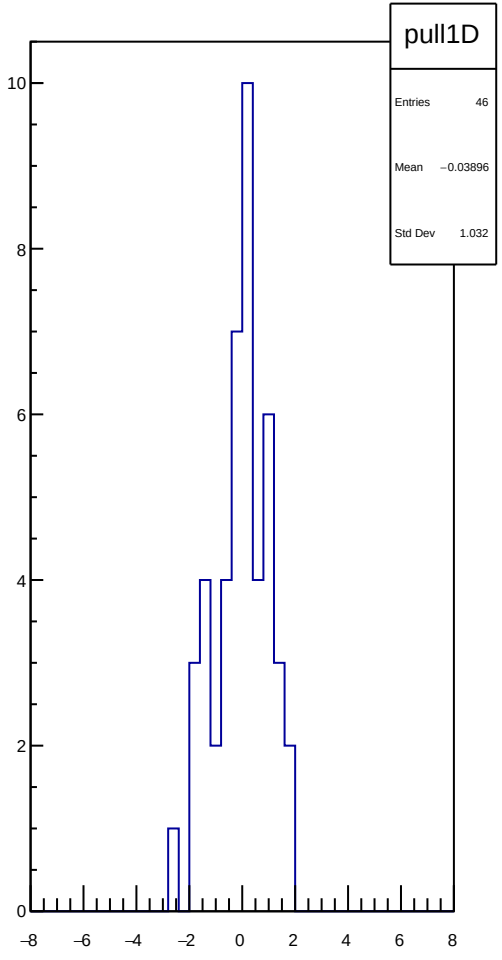
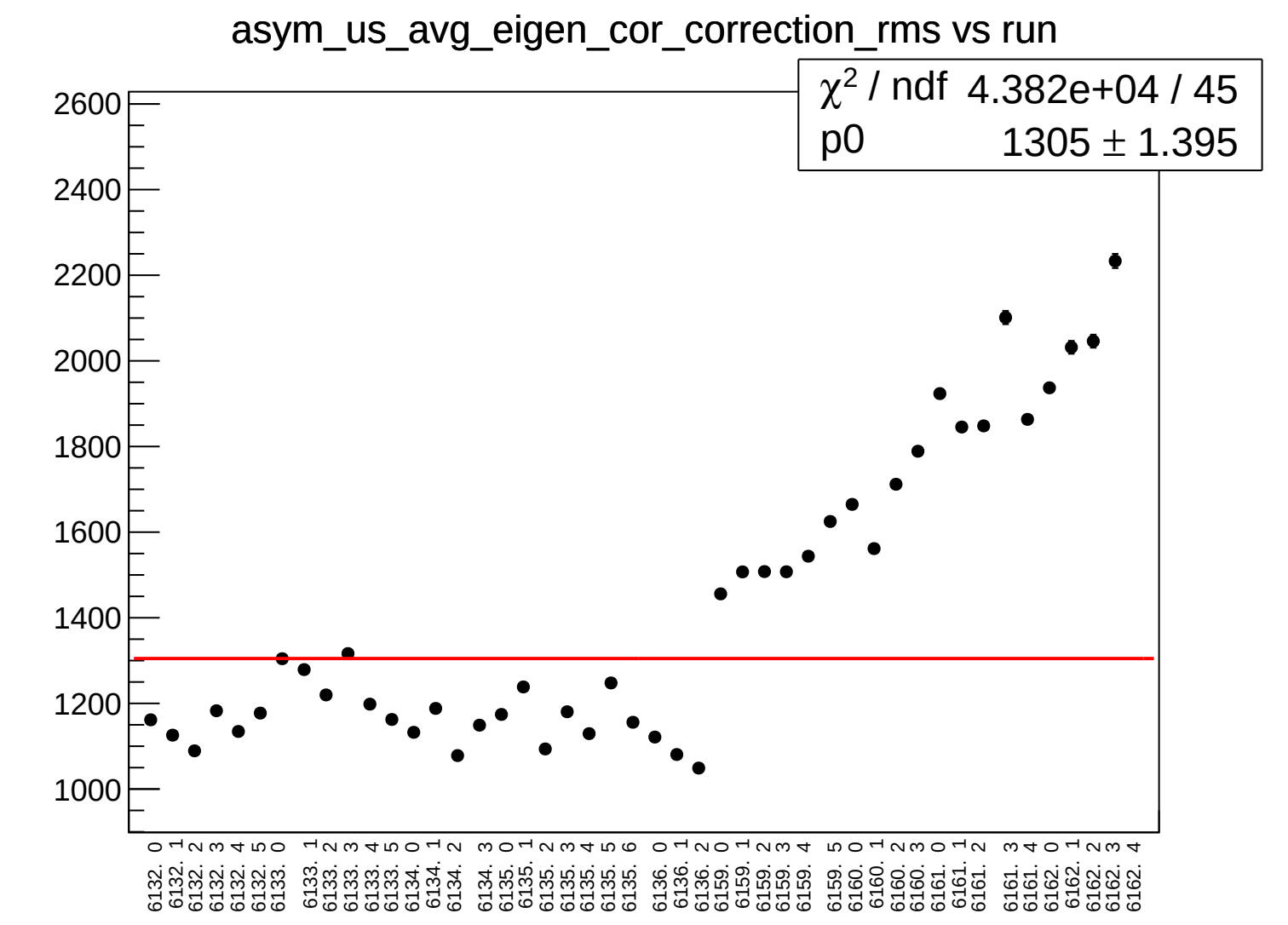
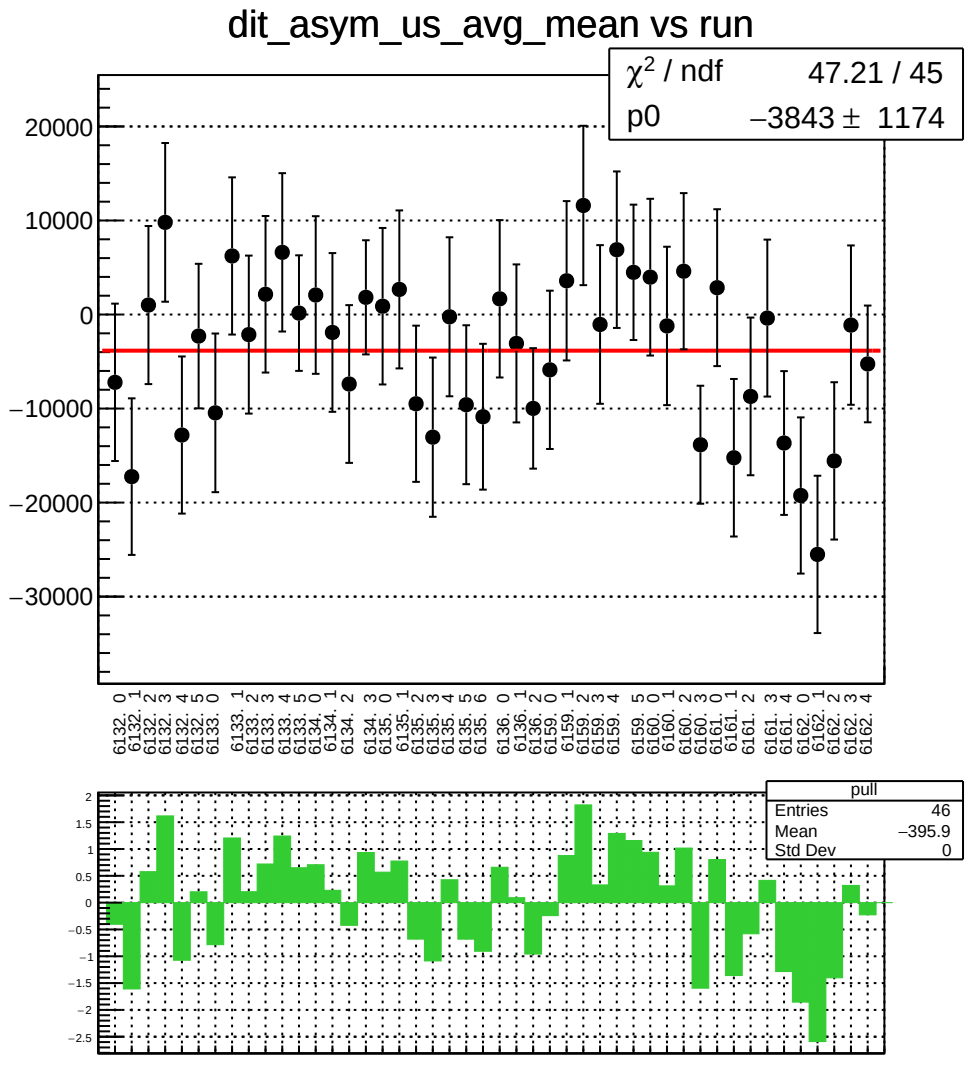
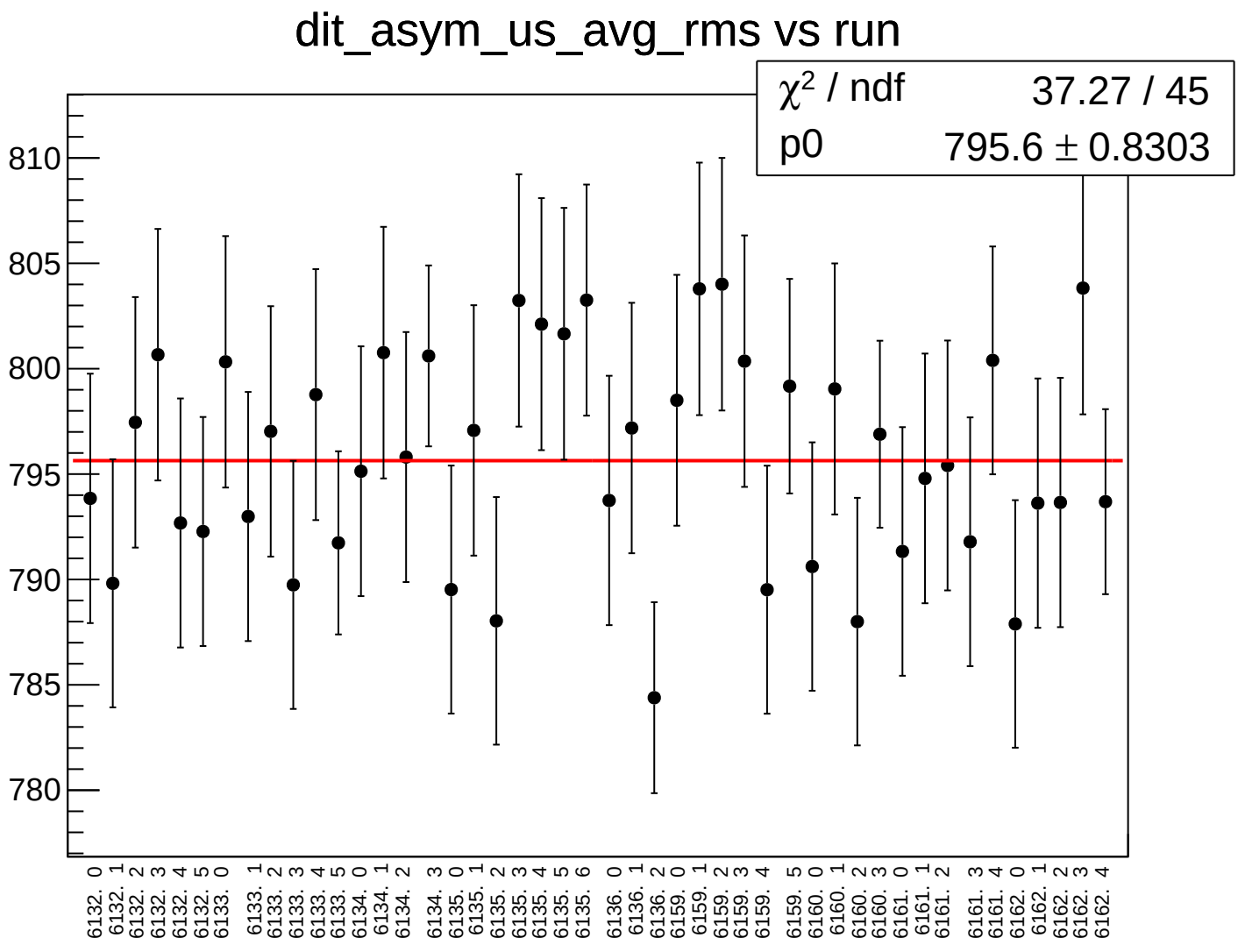
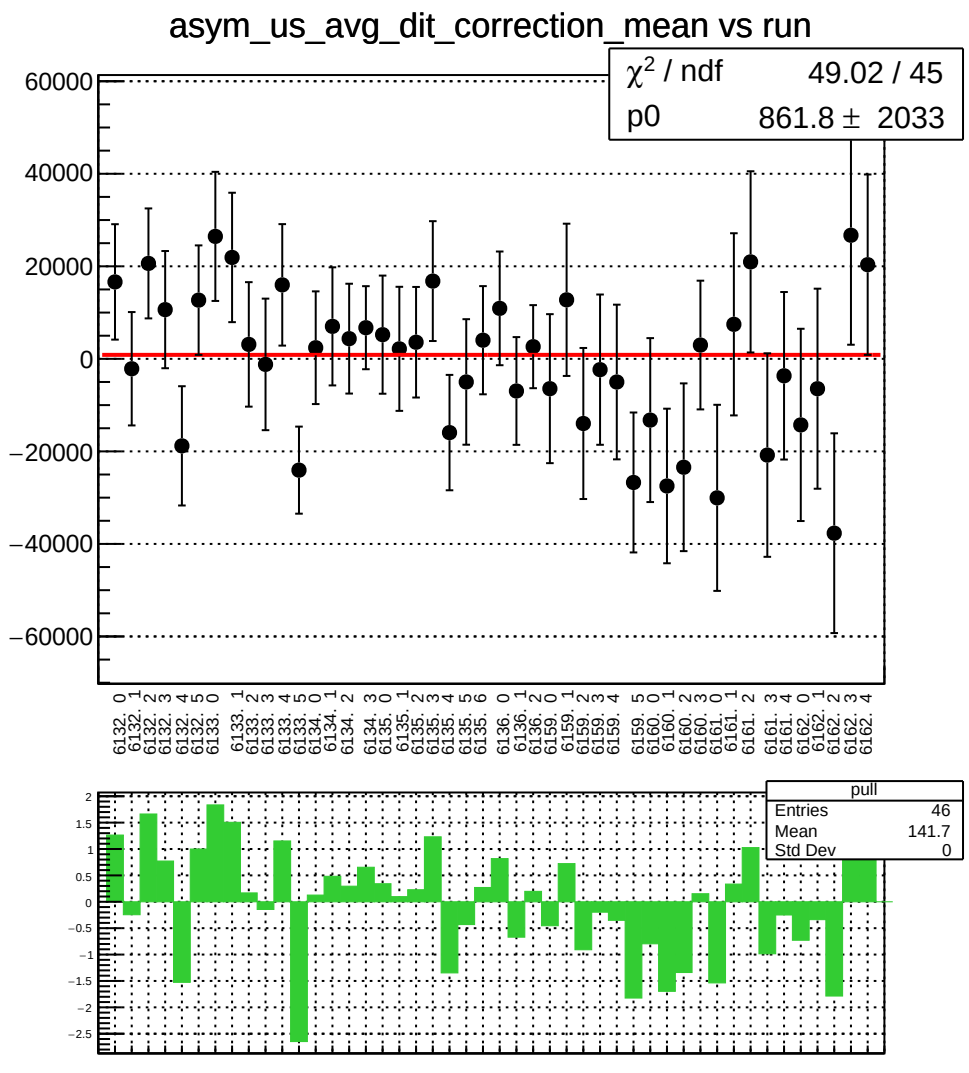
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 141.1
Std Dev 0
2
1
0
−1
−2

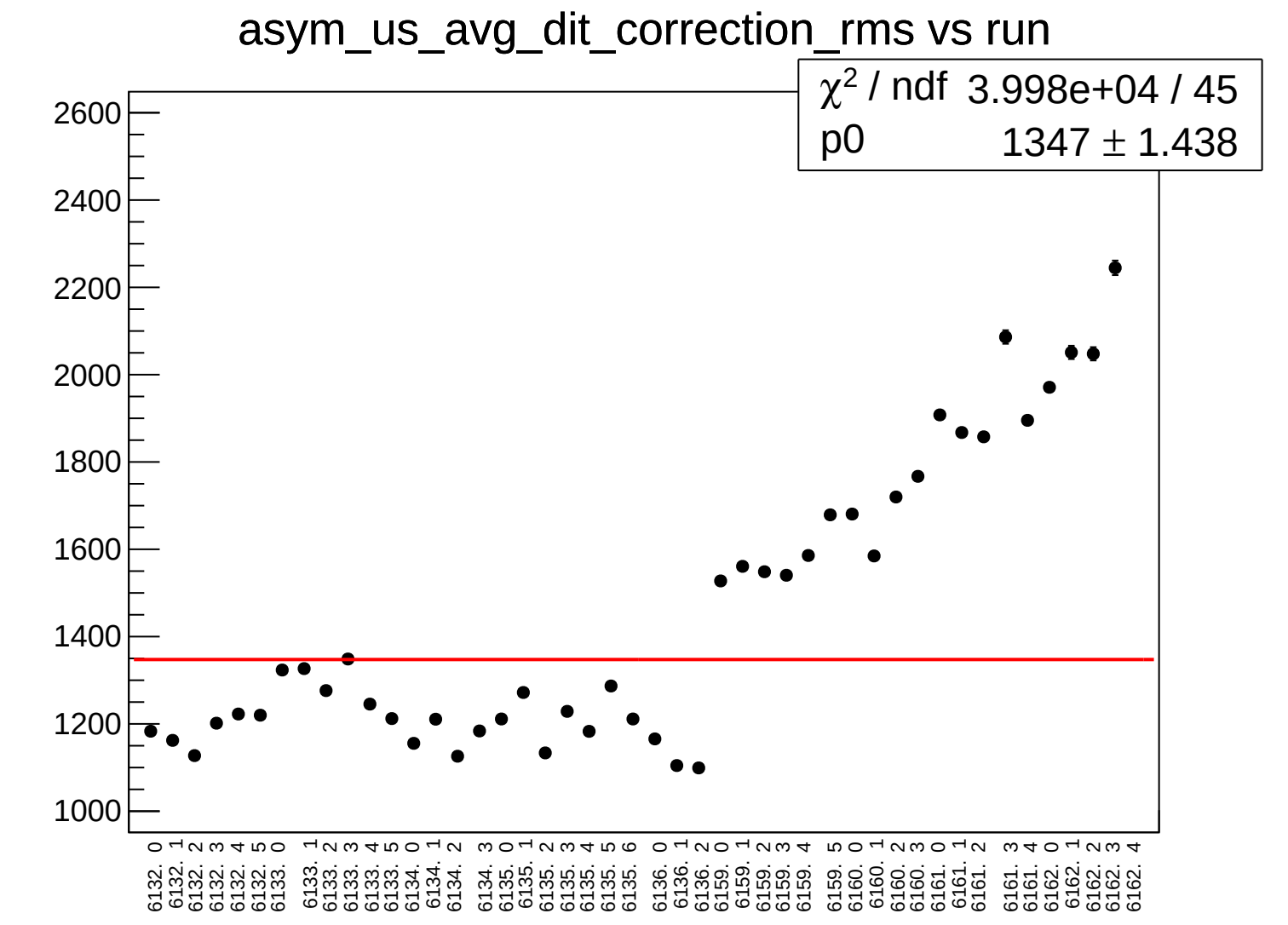

pull1D
Entries 46
Mean −0.03896
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

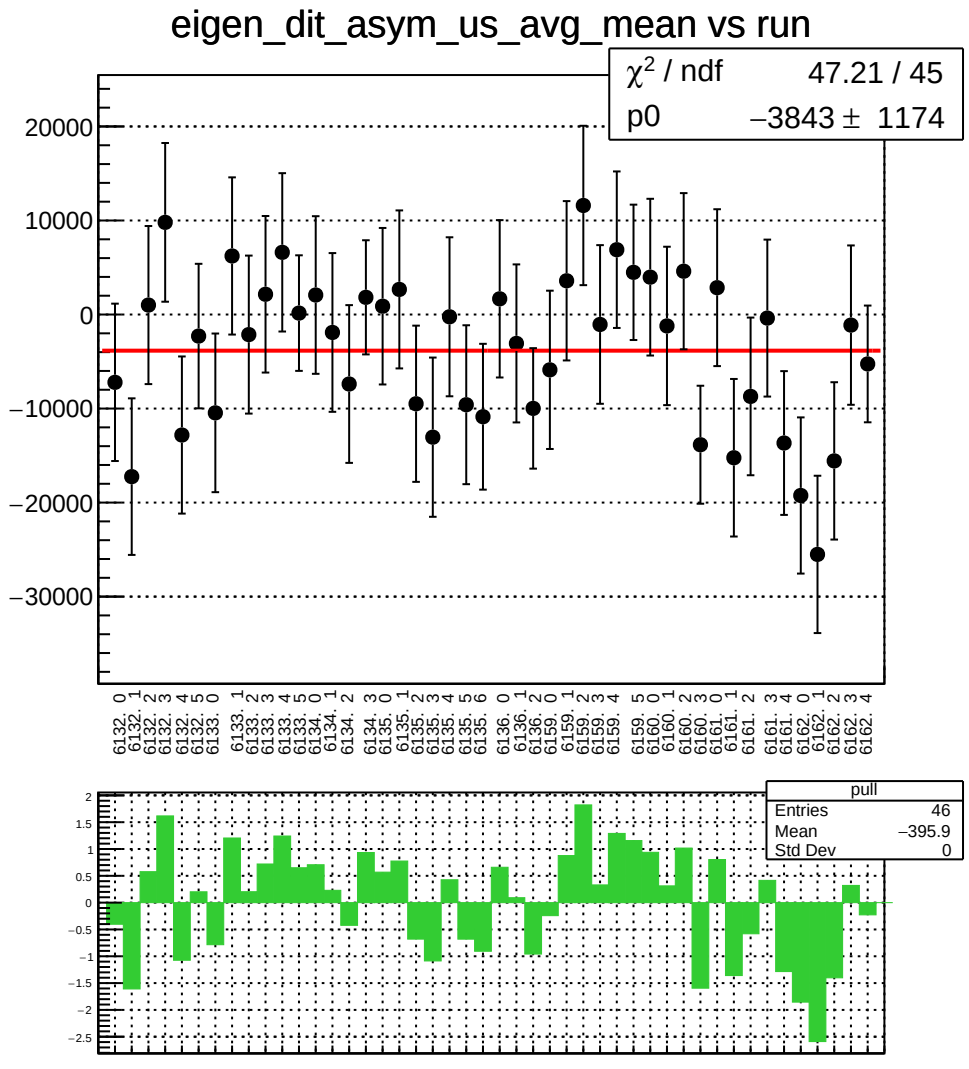

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.382e+04 / 45
p0 1305 ± 1.395
2600
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

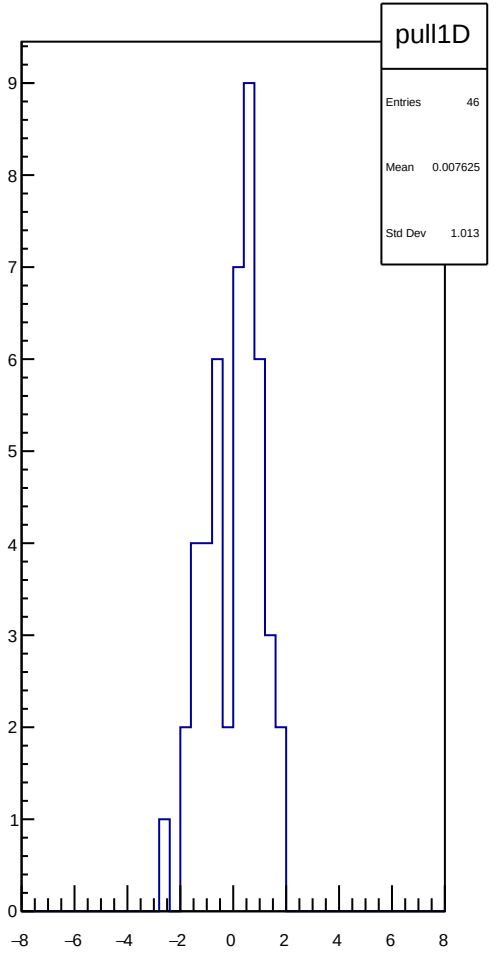

dit_asym_us_avg_mean vs run
χ² / ndf 47.21 / 45
p0 −3843 ± 1174
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −395.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean 0.007625
Std Dev 1.013
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

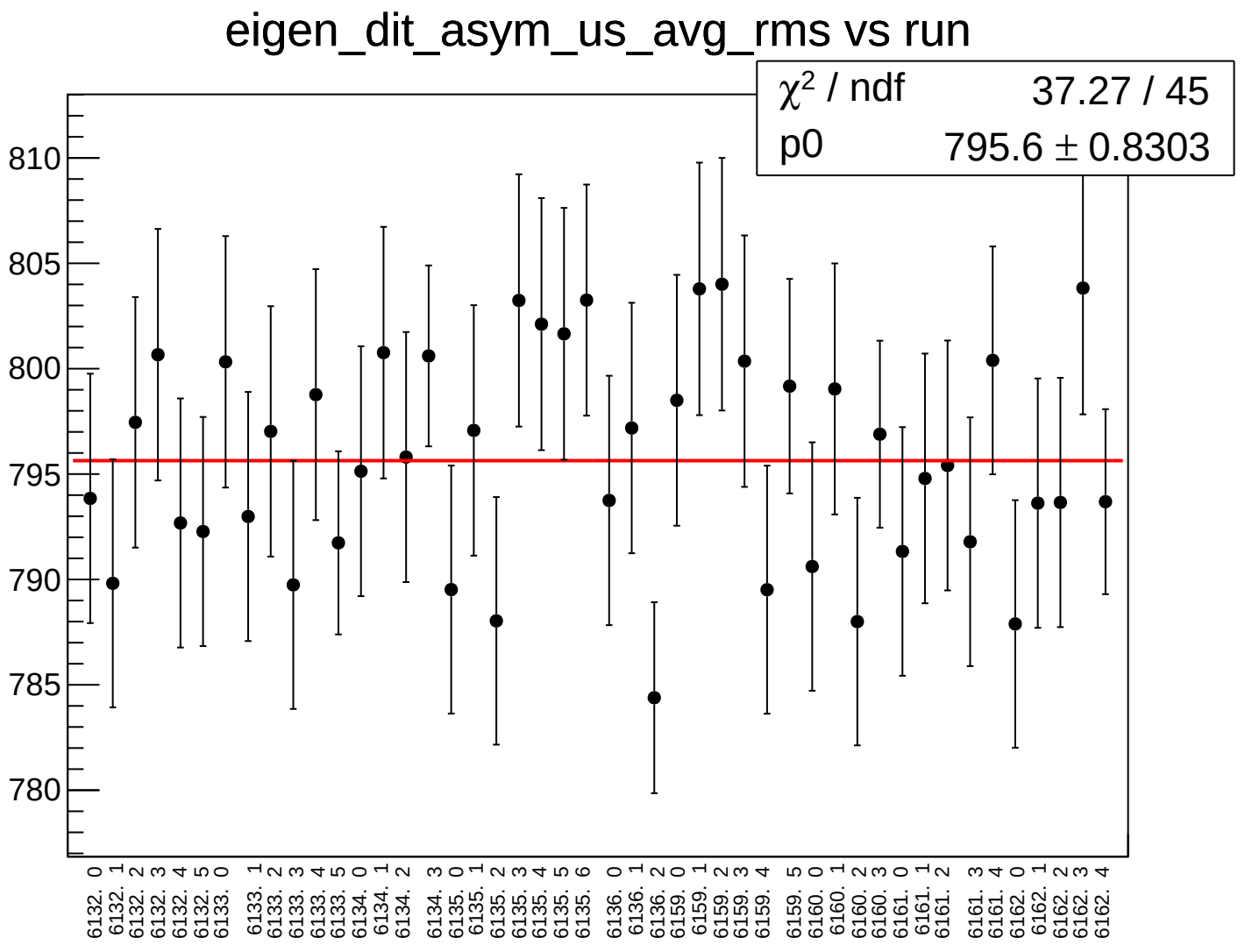

dit_asym_us_avg_rms vs run
χ² / ndf 37.27 / 45
p0 795.6 ± 0.8303
810
805
800
795
790
785
780
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

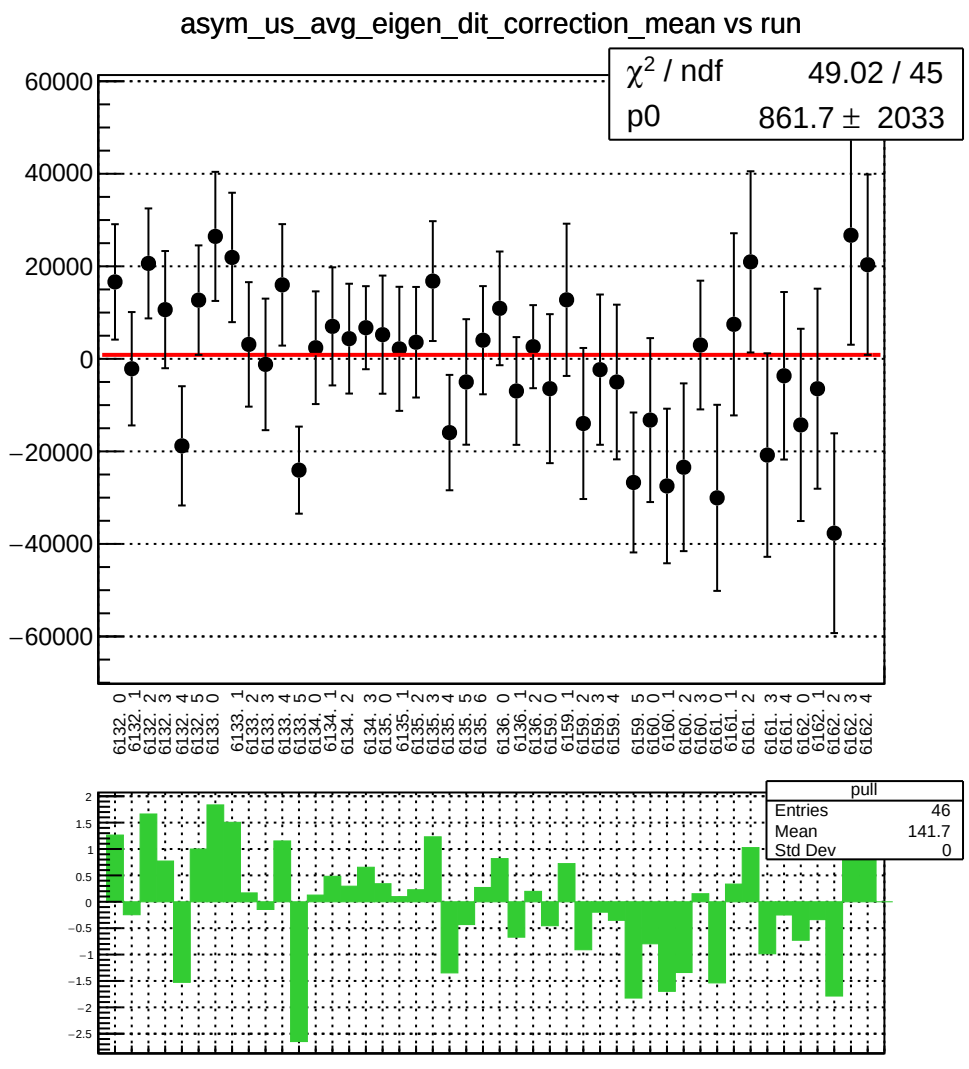

asym_us_avg_dit_correction_mean vs run
χ² / ndf 49.02 / 45
p0 861.8 ± 2033
pull
Entries 46
Mean 141.7
Std Dev 0
pull1D
Entries 46
Mean −0.0385
Std Dev 1.032

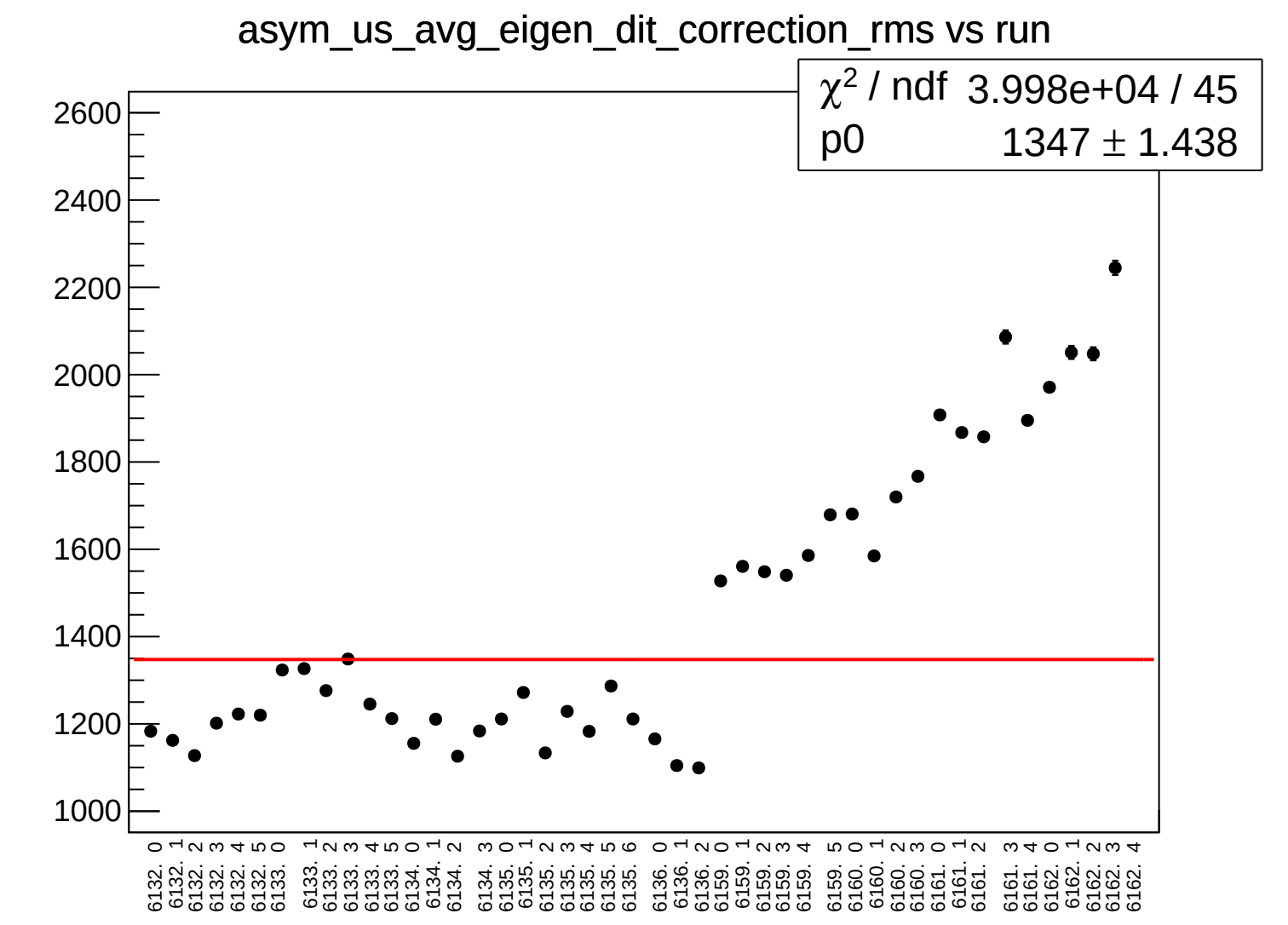

asym_us_avg_dit_correction_rms vs run
χ² / ndf 3.998e+04 / 45
p0 1347 ± 1.438
2600
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

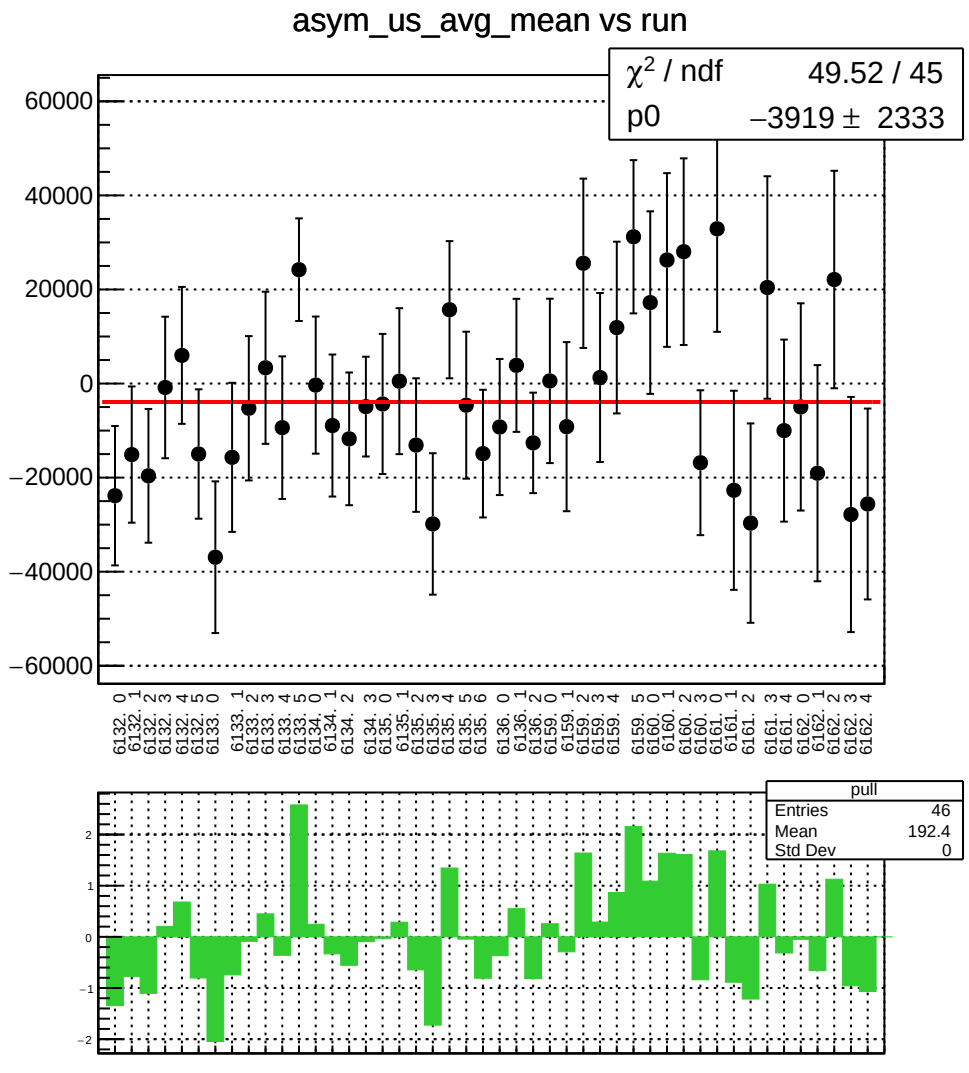

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 47.21 / 45
p0 −3843 ± 1174
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −395.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

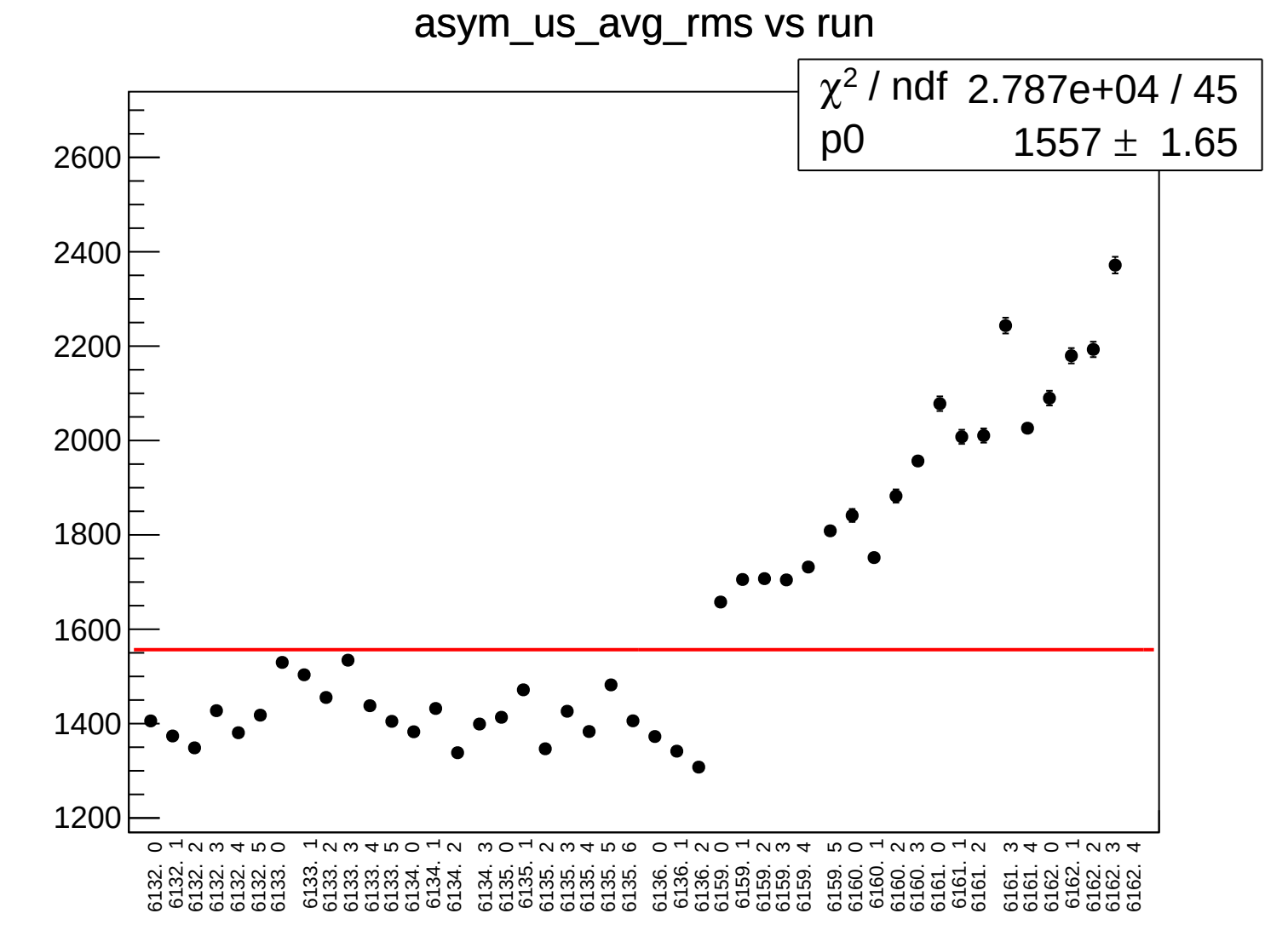

pull1D
Entries 46
Mean 0.007625
Std Dev 1.013
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

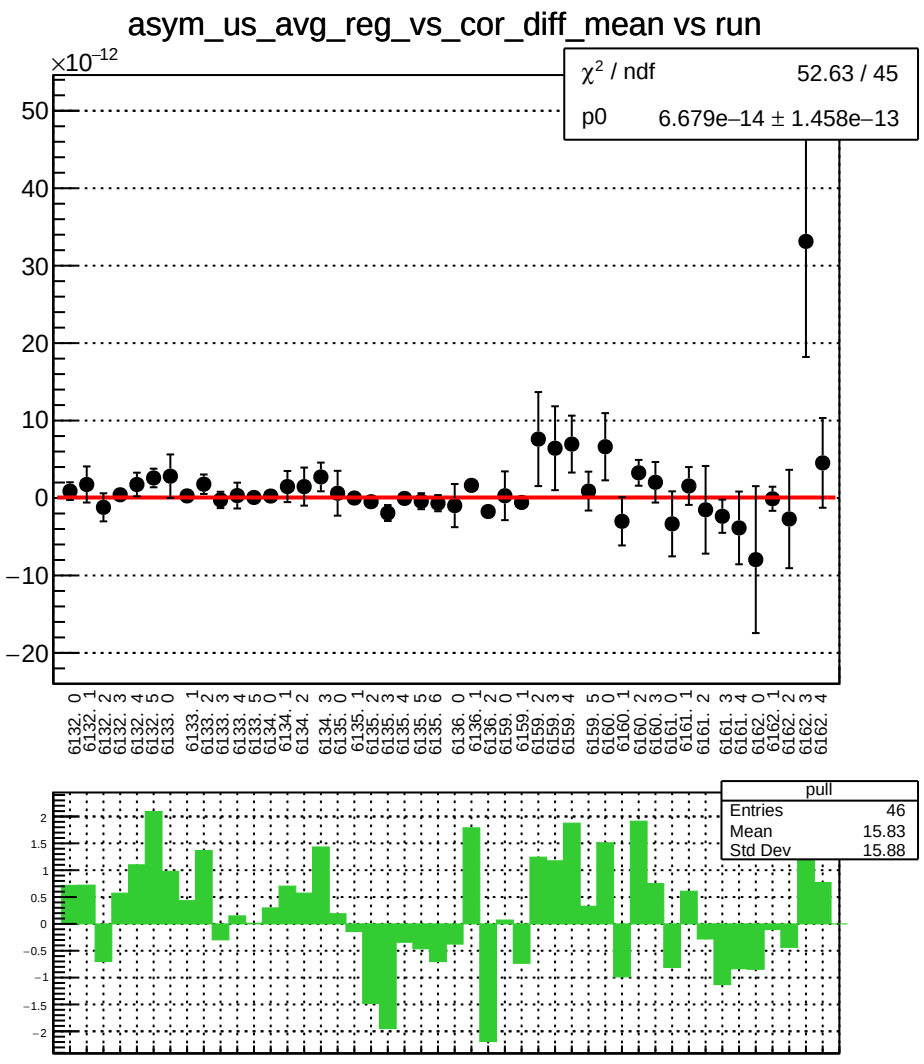

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 37.27 / 45
p0 795.6 ± 0.8303
810
805
800
795
790
785
780
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

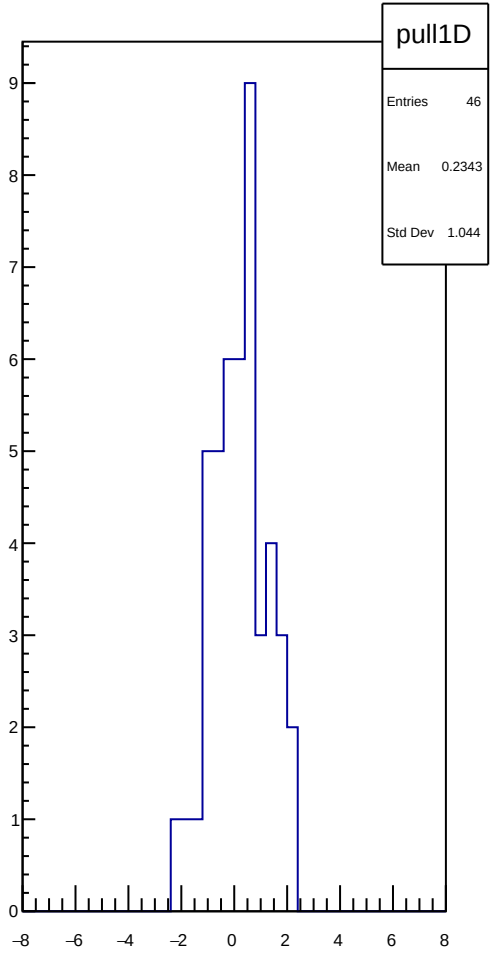

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 49.02 / 45
p0 861.7 ± 2033
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 141.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.0385
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

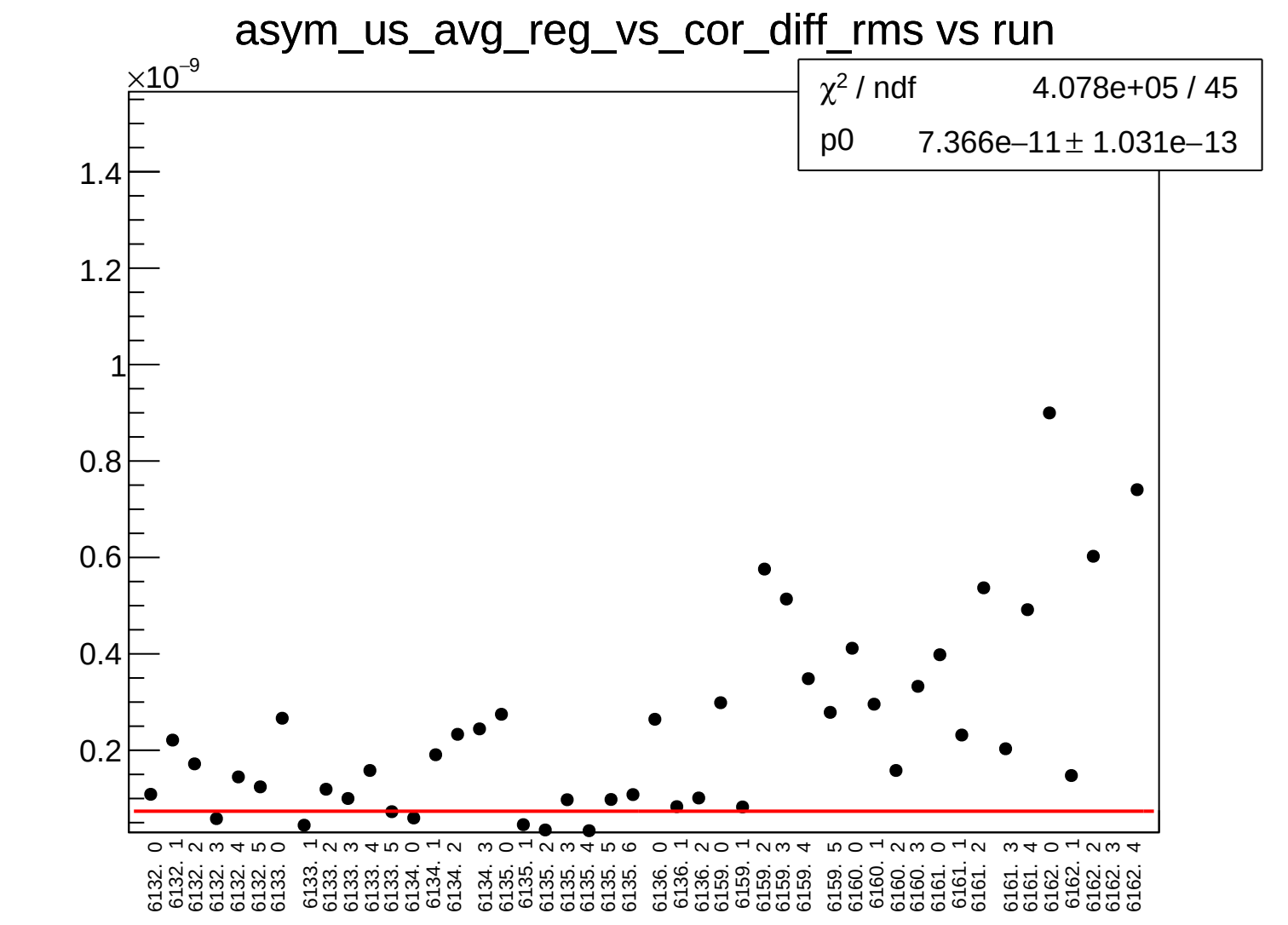

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.998e+04 / 45
p0 1347 ± 1.438
2600
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

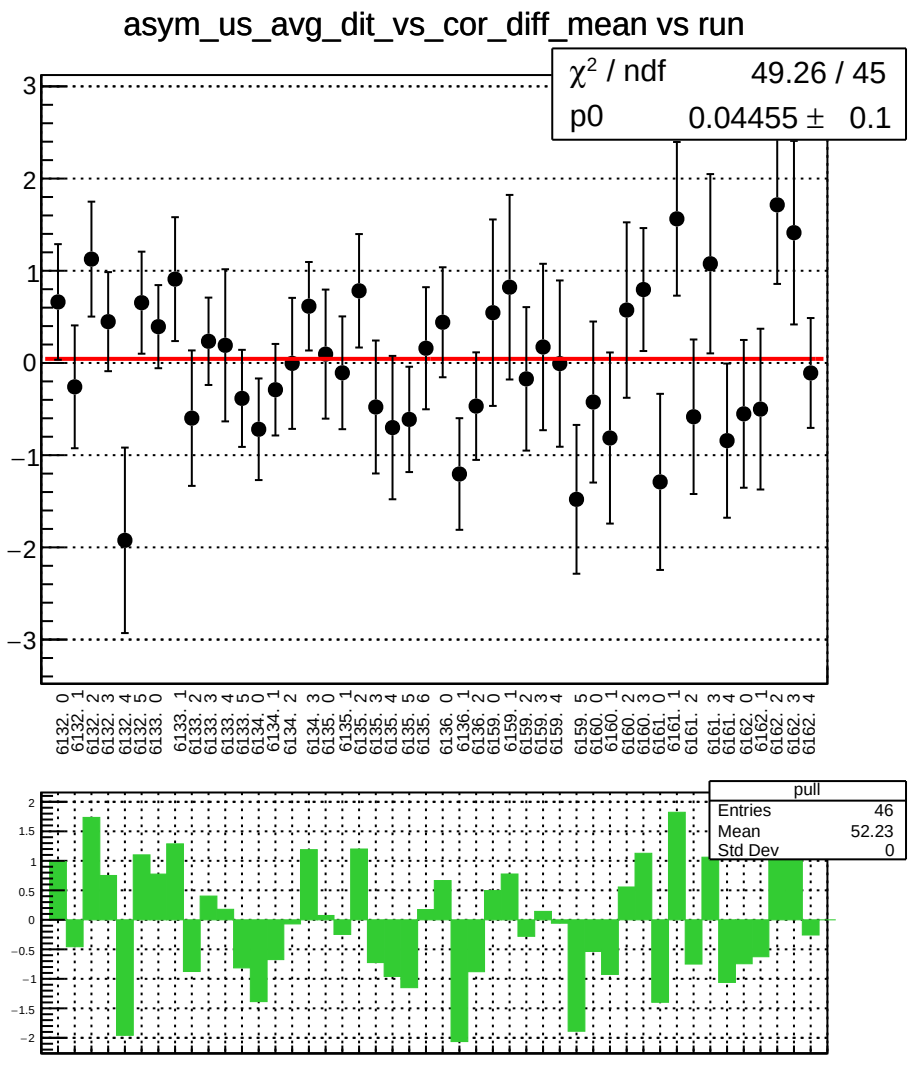

asym_us_avg_mean vs run
χ² / ndf 49.52 / 45
p0 −3919 ± 2333
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 192.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.01664
Std Dev 1.037
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

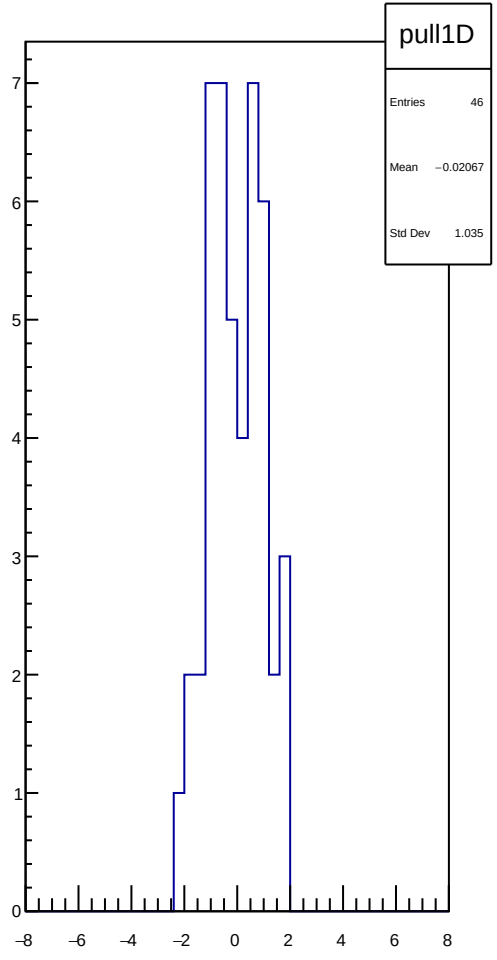

asym_us_avg_rms vs run
χ² / ndf 2.787e+04 / 45
p0 1557 ± 1.65
2600
2400
2200
2000
1800
1600
1400
1200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

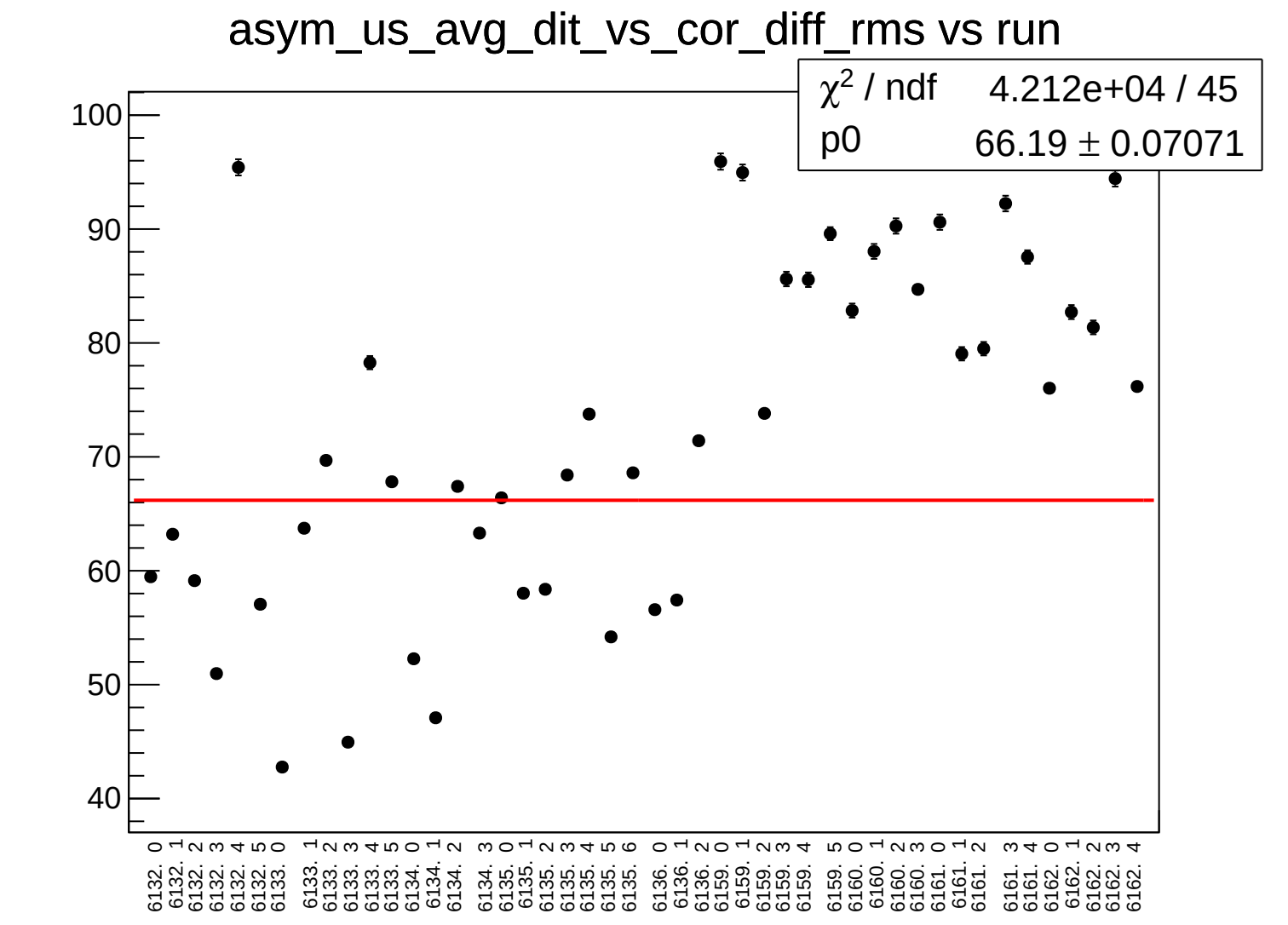

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 52.63 / 45
p0 6.679e−14 ± 1.458e−13
pull
Entries 46
Mean 15.83
Std Dev 15.88

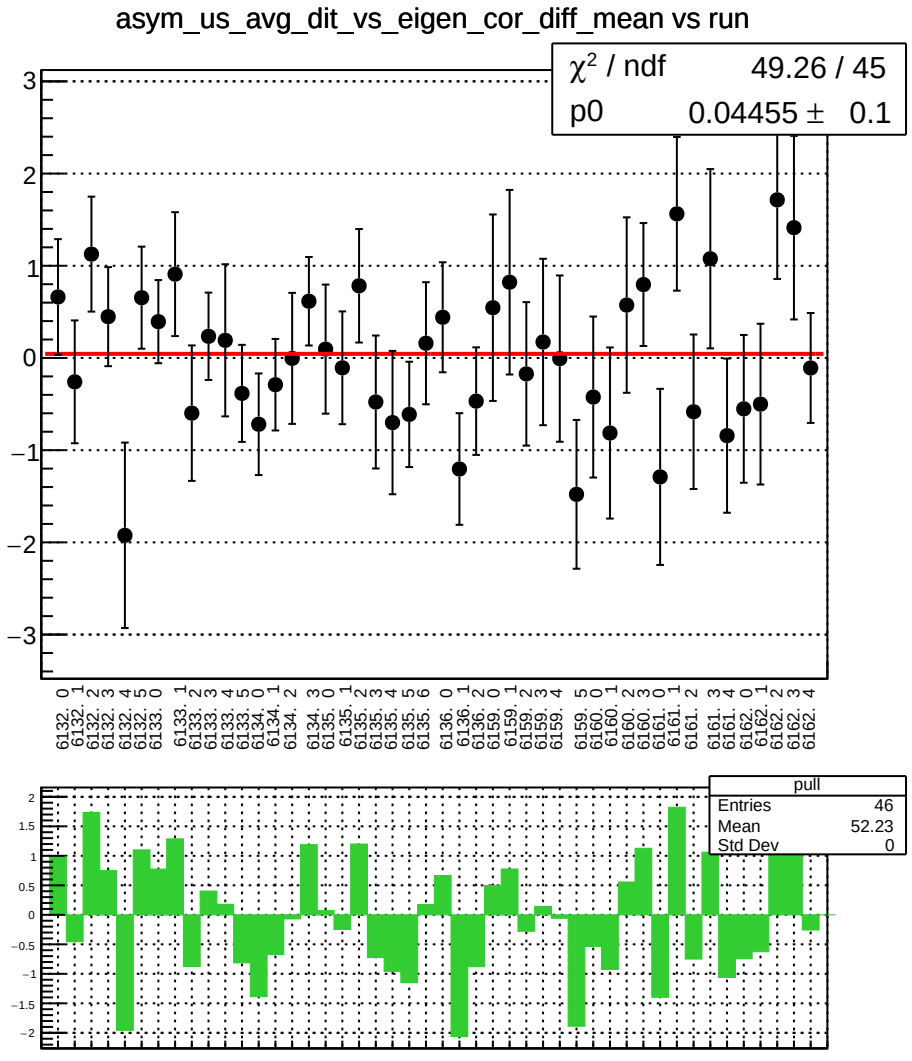

pull1D
Entries 46
Mean 0.2343
Std Dev 1.044

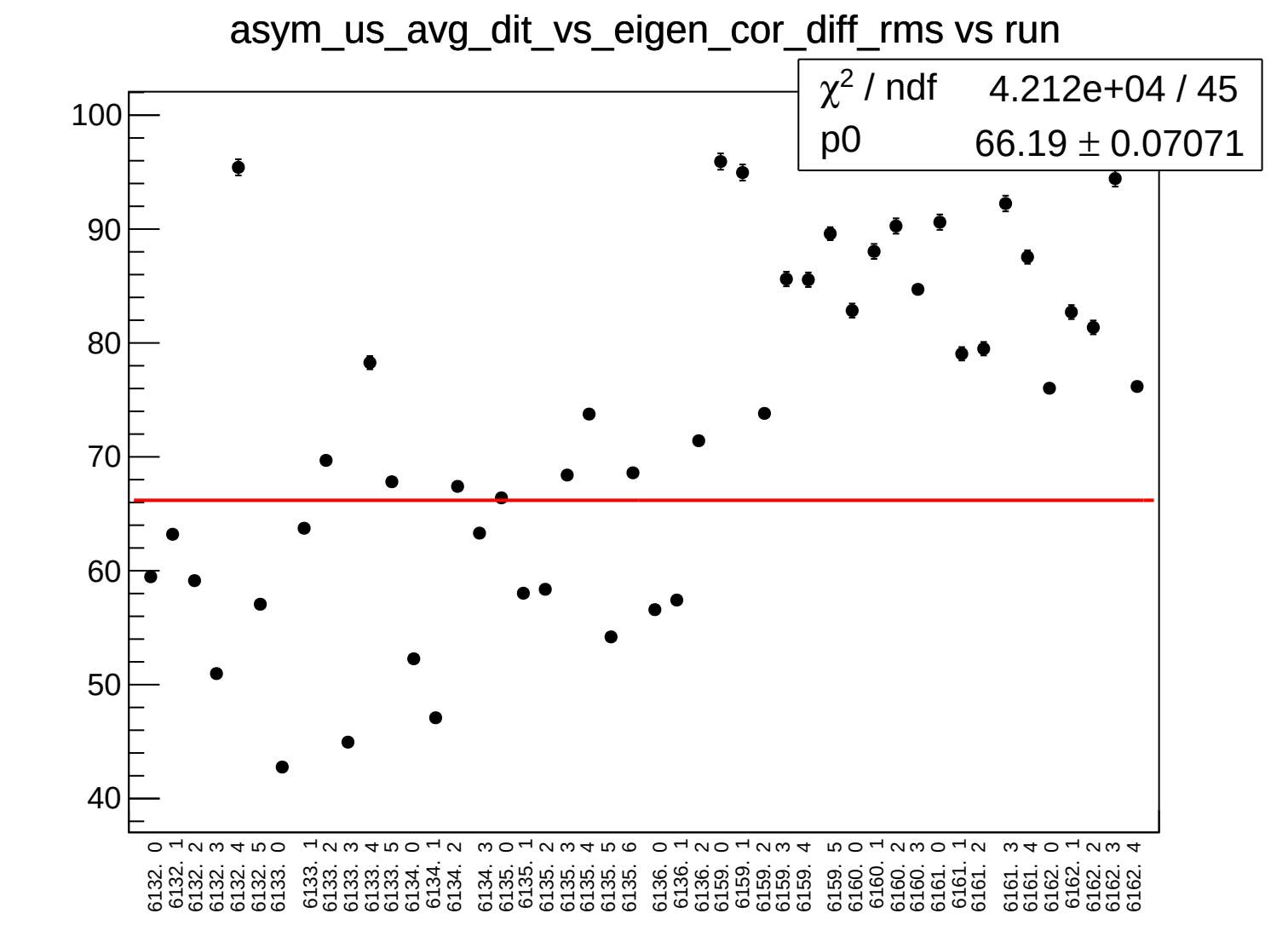

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.078e+05 / 45
p0 7.366e−11 ± 1.031e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

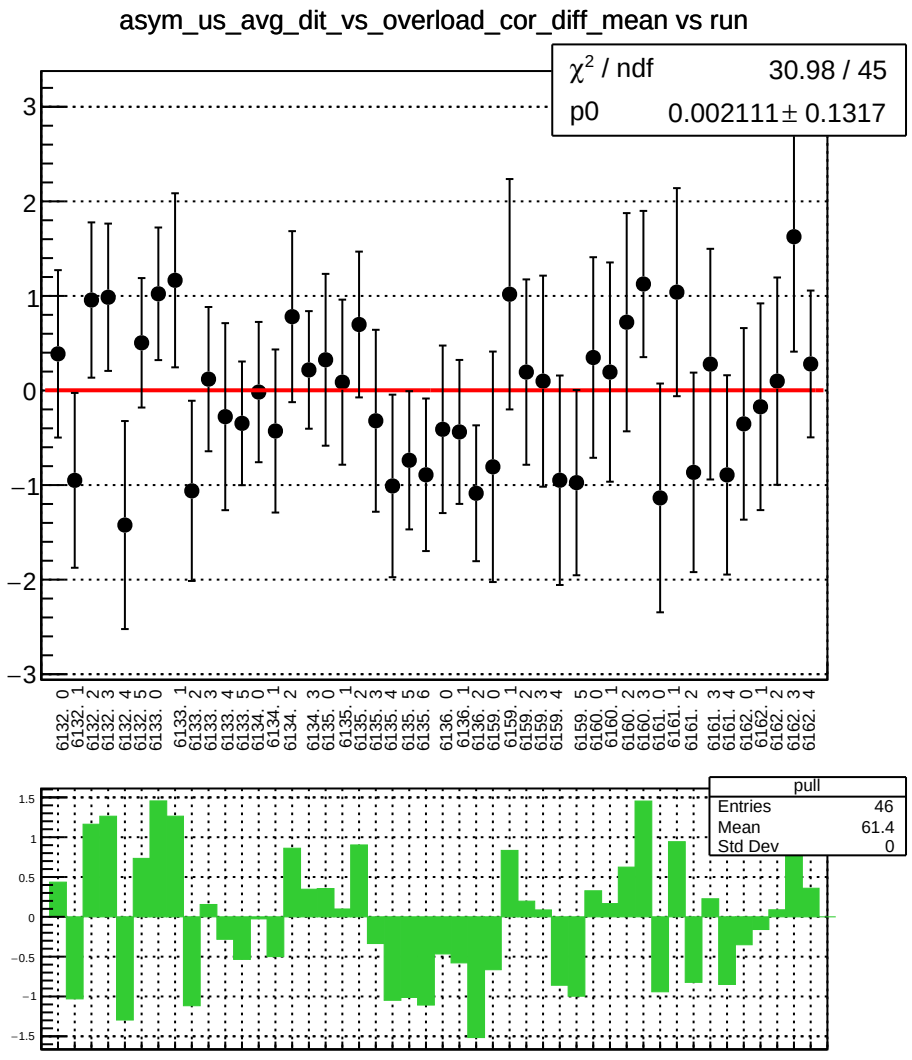

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 49.26 / 45
p0 0.04455 ± 0.1
pull
Entries 46
Mean 52.23
Std Dev 0

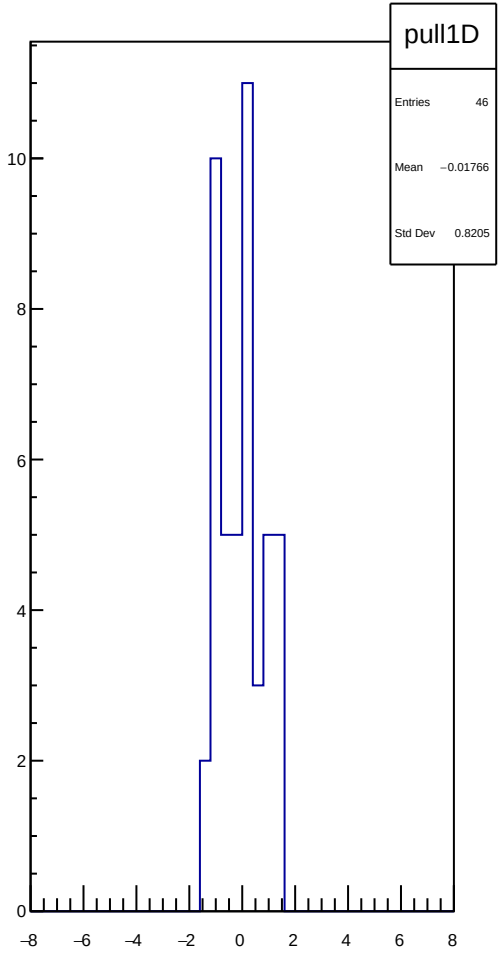

pull1D
Entries 46
Mean −0.02067
Std Dev 1.035

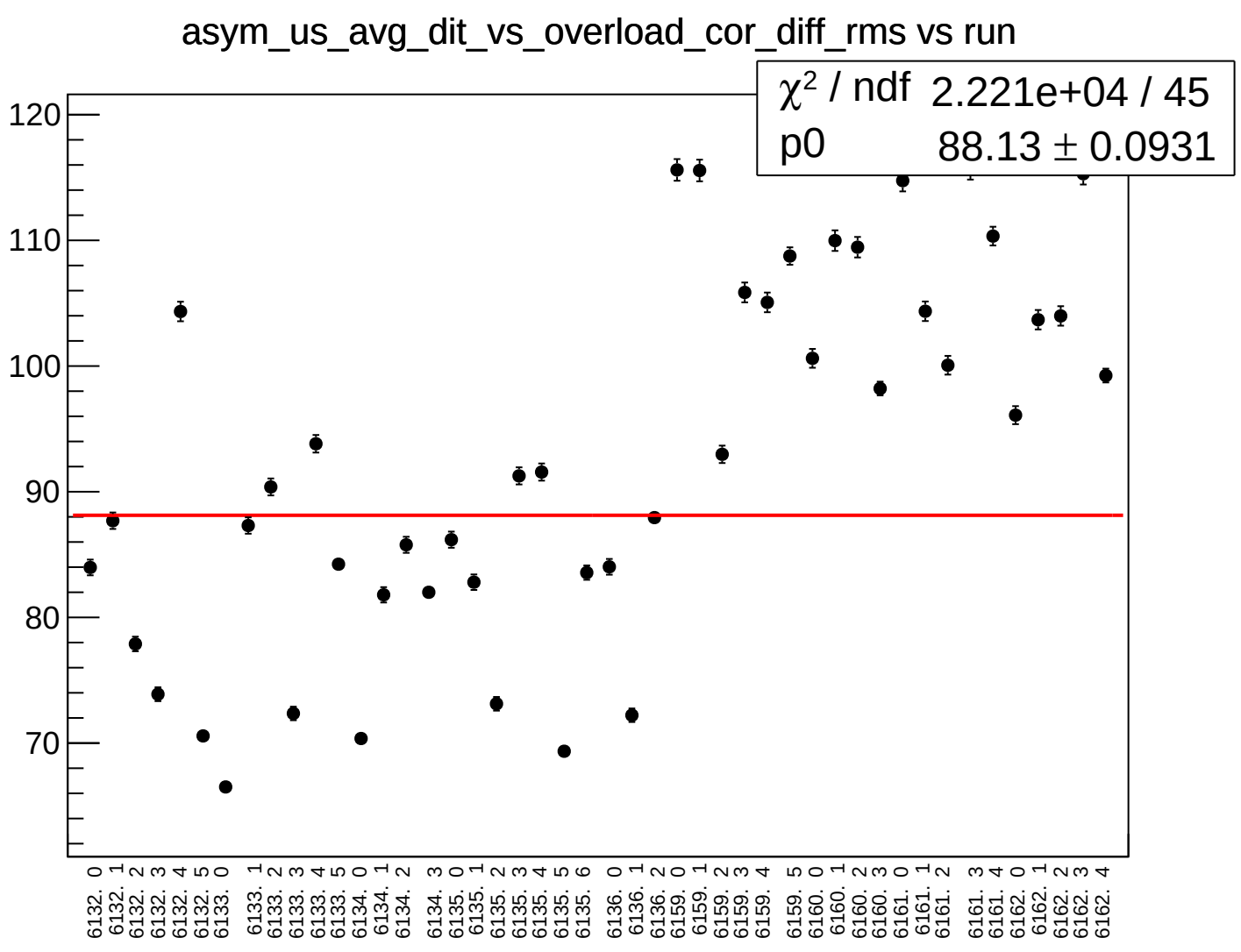

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.212e+04 / 45
p0 66.19 ± 0.07071
100
90
80
70
60
50
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

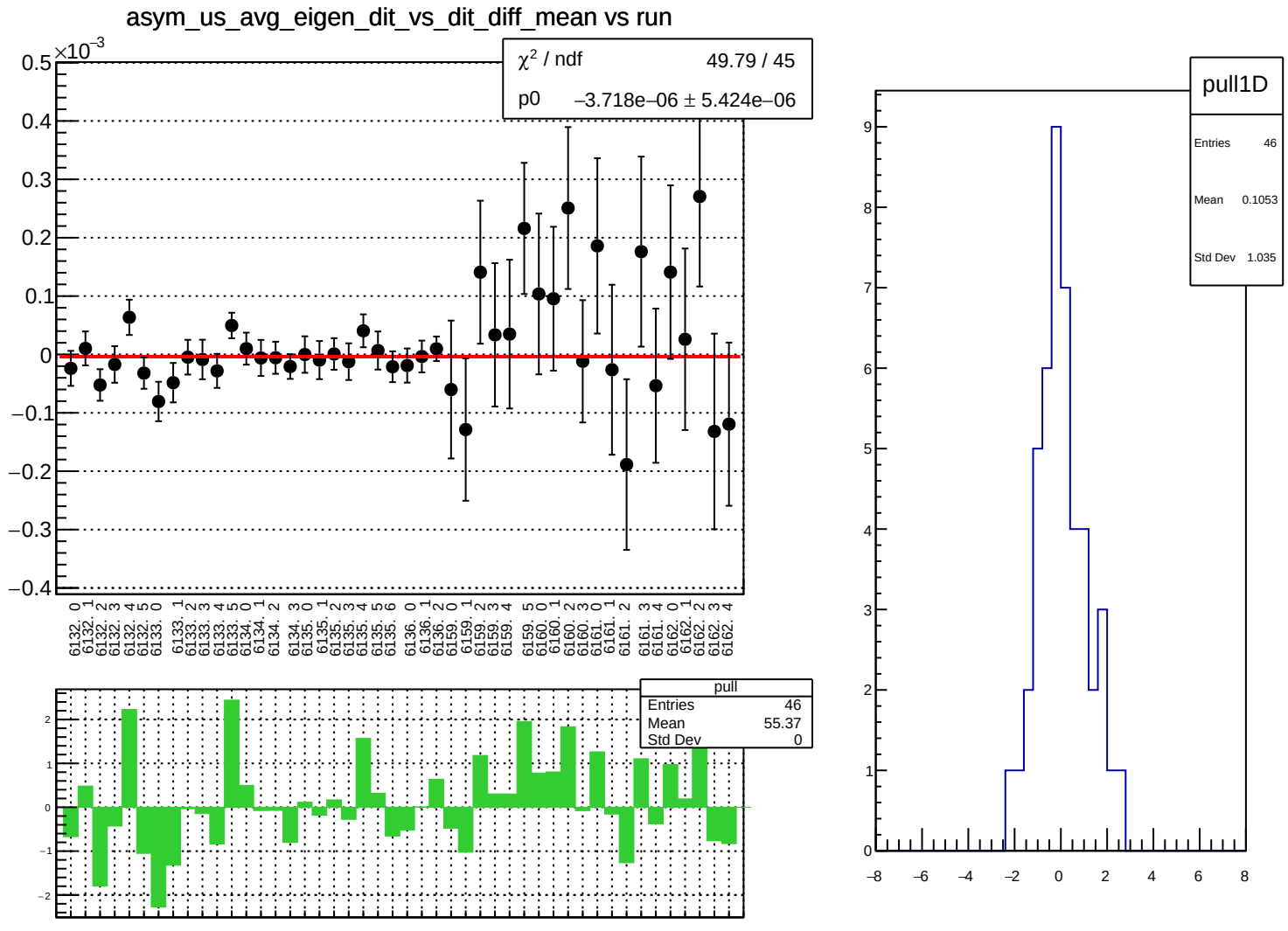

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.26 / 45
p0 0.04455 ± 0.1
pull
Entries 46
Mean 52.23
Std Dev 0
pull1D
Entries 46
Mean −0.02067
Std Dev 1.035

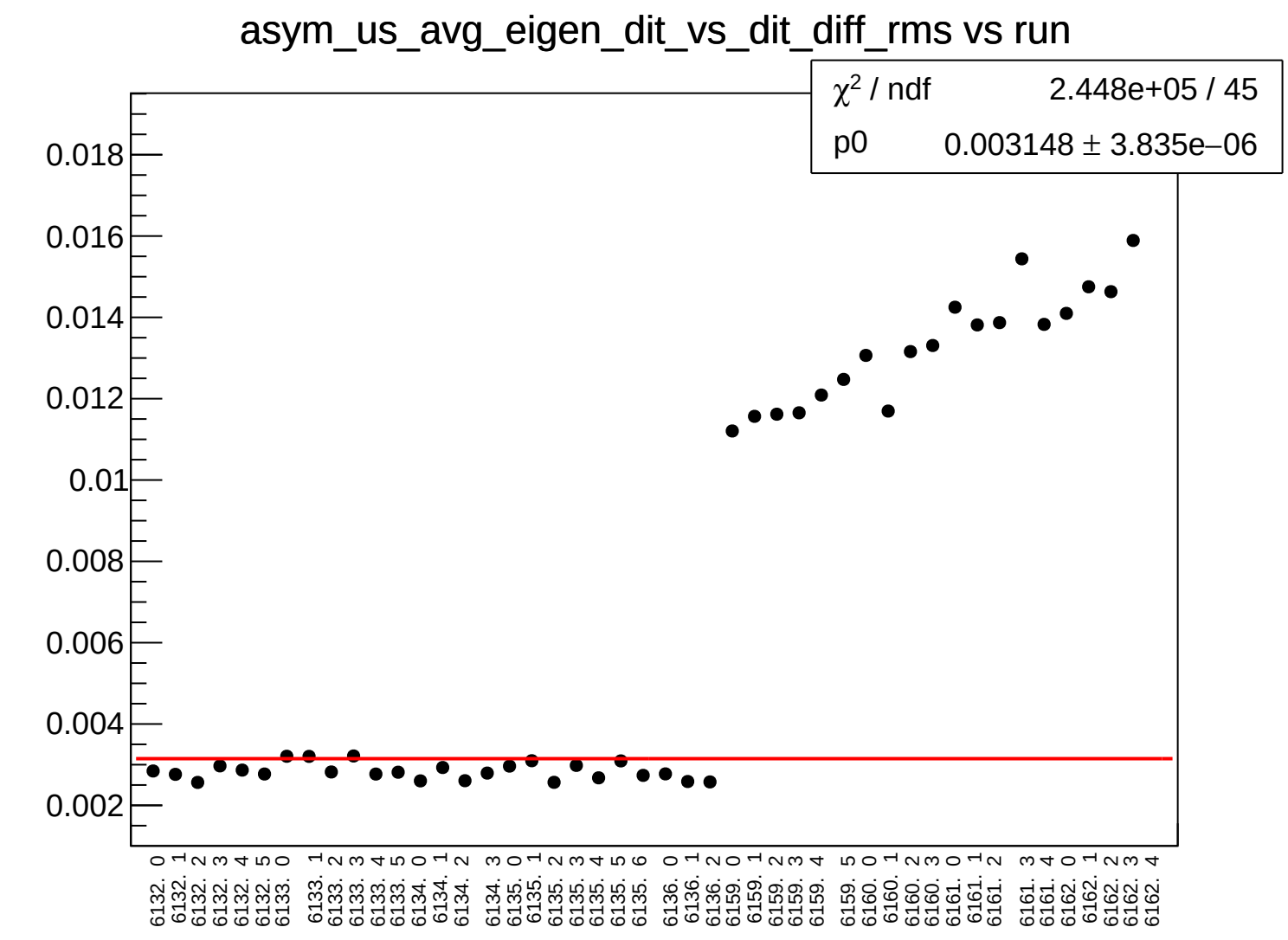

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.212e+04 / 45
p0 66.19 ± 0.07071
100
90
80
70
60
50
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

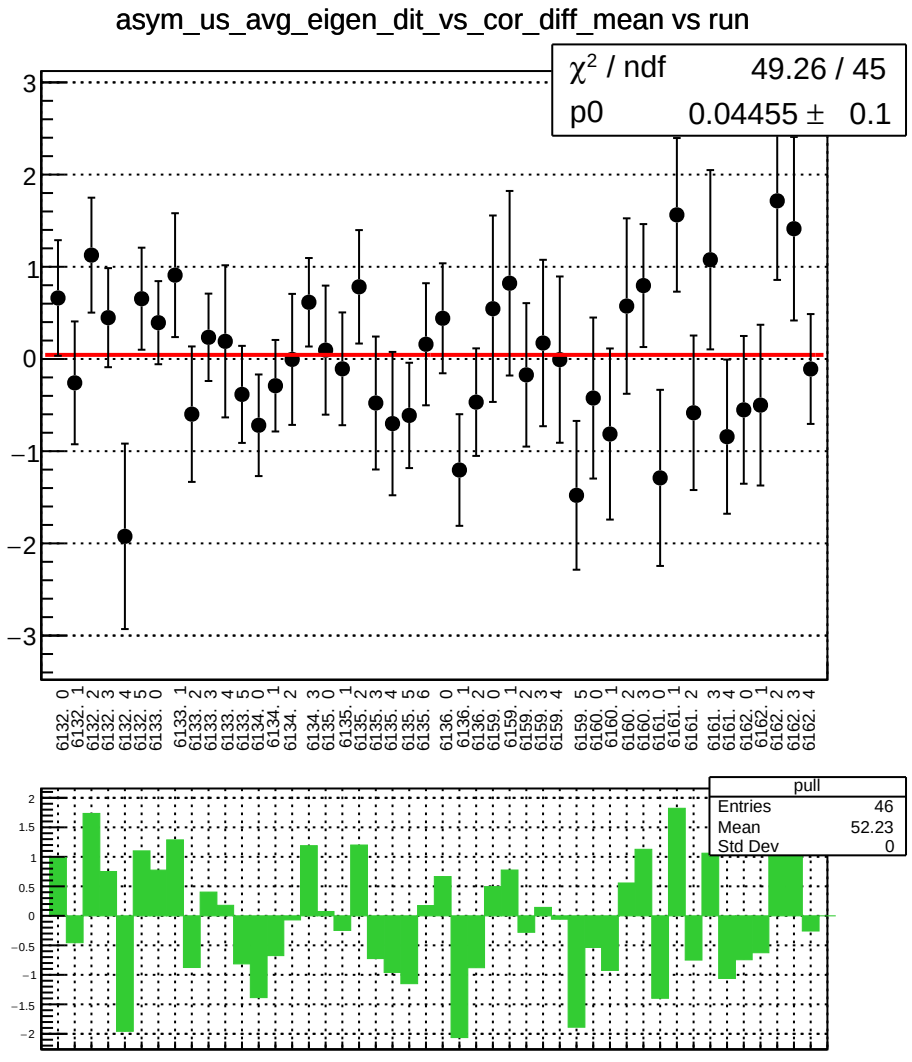

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 30.98 / 45
p0 0.002111 ± 0.1317
pull
Entries 46
Mean 61.4
Std Dev 0

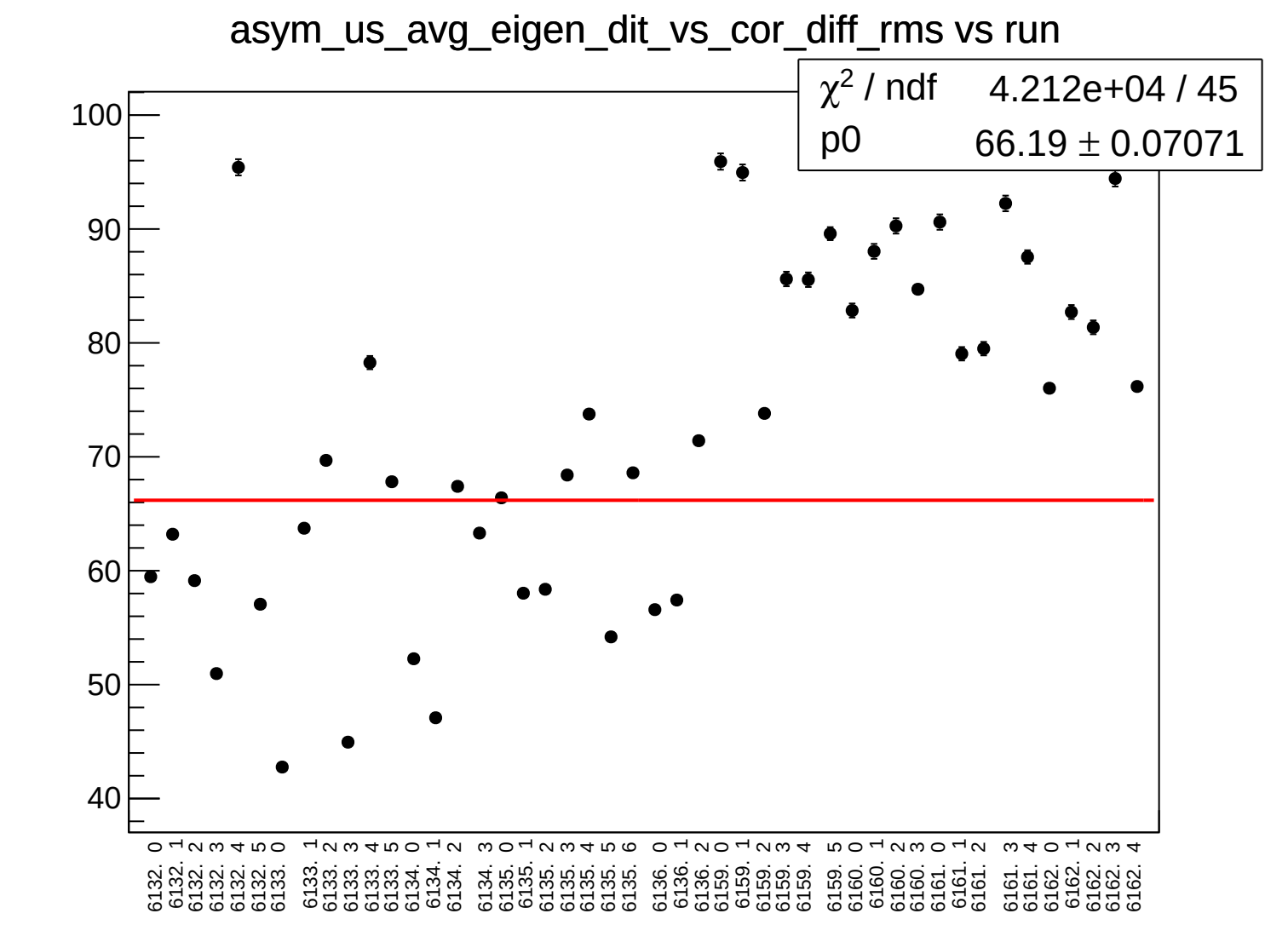

pull1D
Entries 46
Mean −0.01766
Std Dev 0.8205

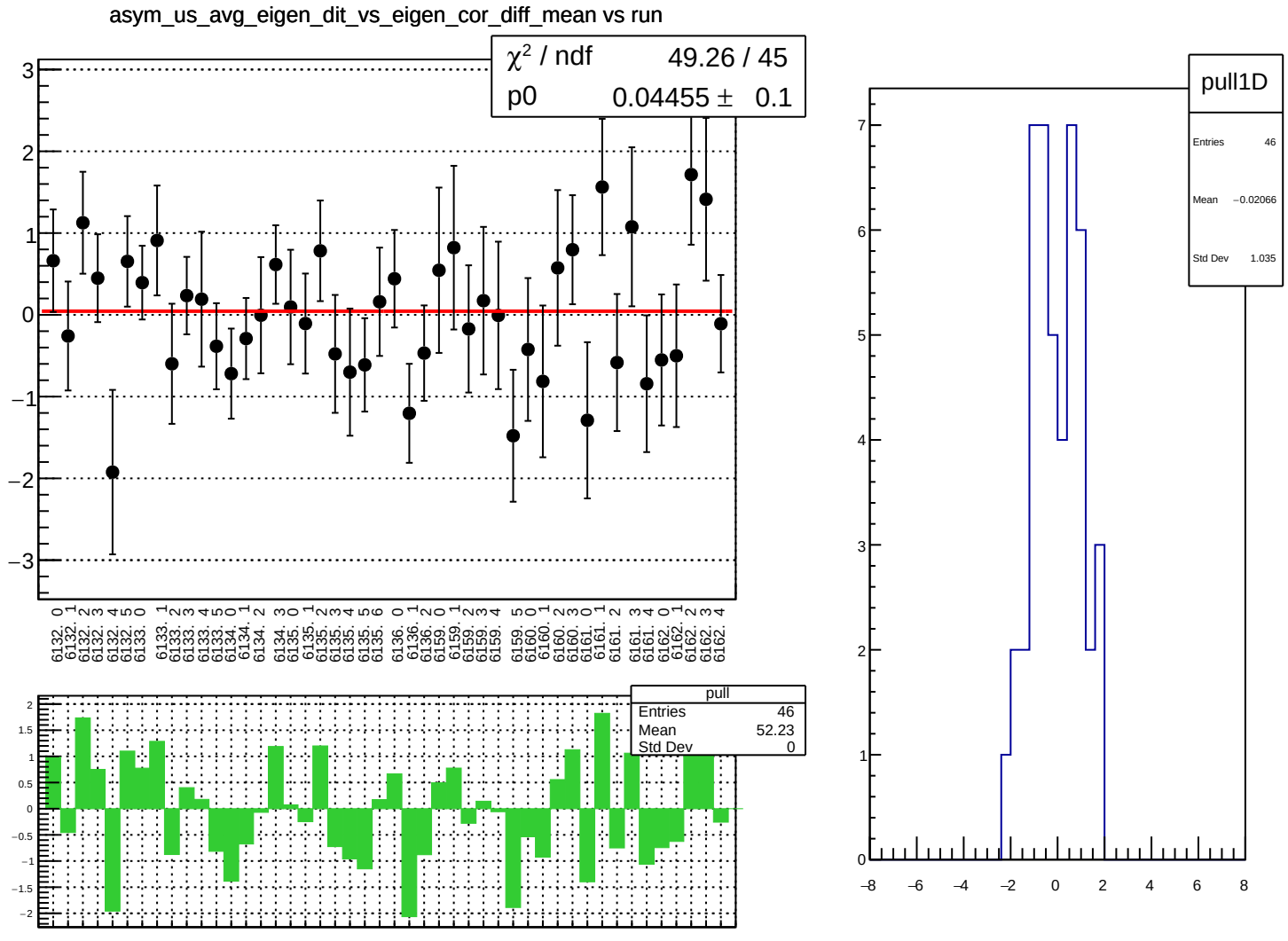

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.221e+04 / 45
p0 88.13 ± 0.0931
120
110
100
90
80
70
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

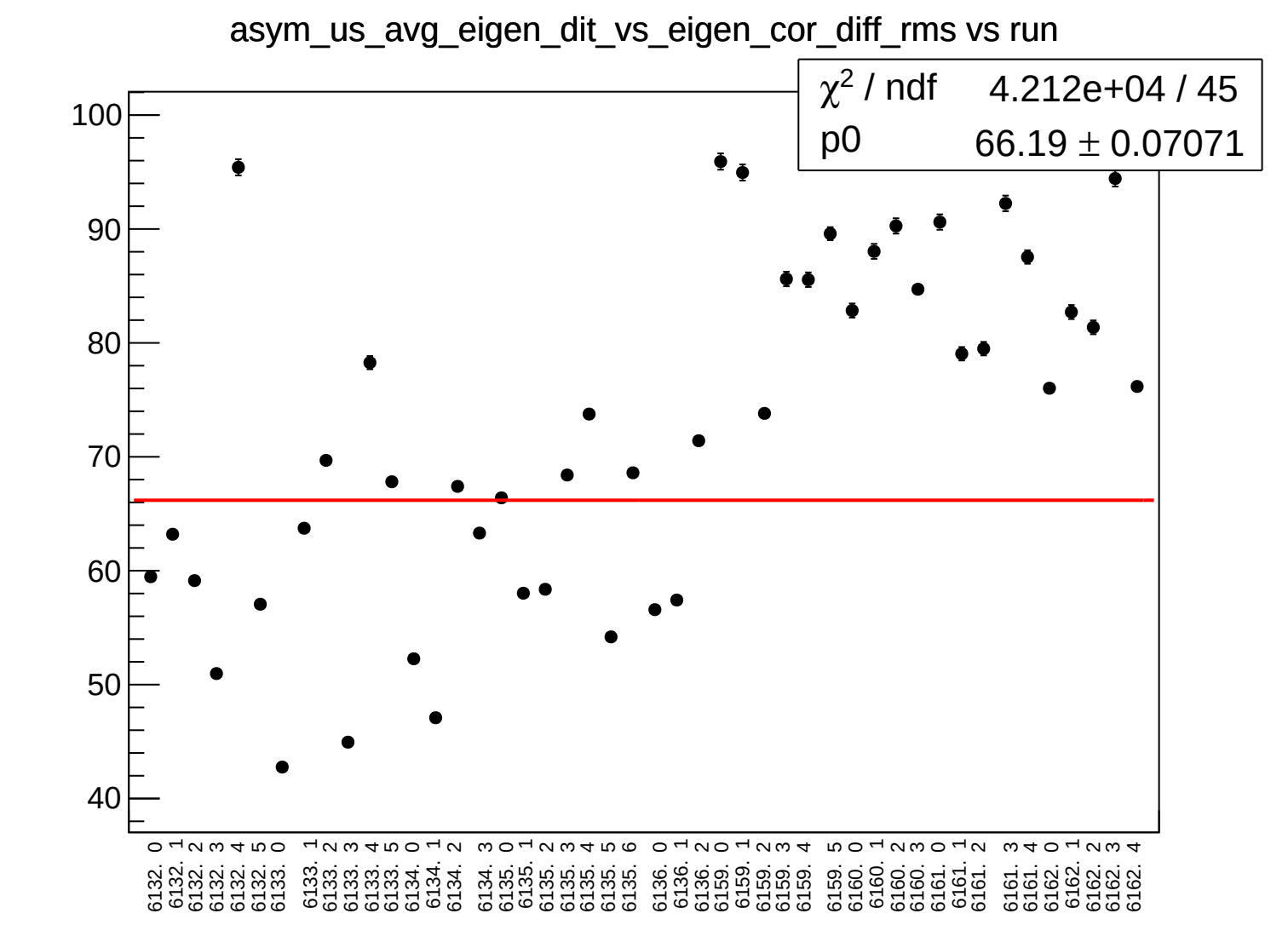

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 49.79 / 45
p0 −3.718e−06 ± 5.424e−06
×10⁻³
pull
Entries 46
Mean 55.37
Std Dev 0
pull1D
Entries 46
Mean 0.1053
Std Dev 1.035

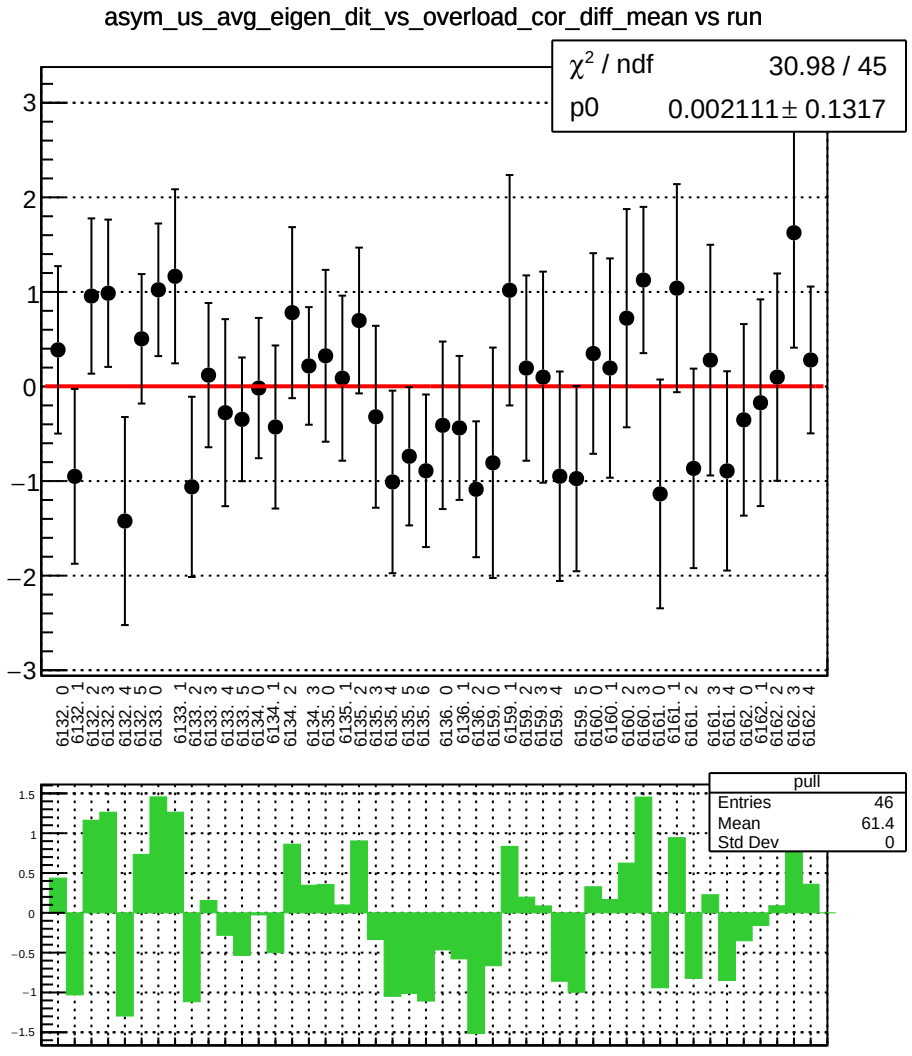

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.448e+05 / 45
p0 0.003148 ± 3.835e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

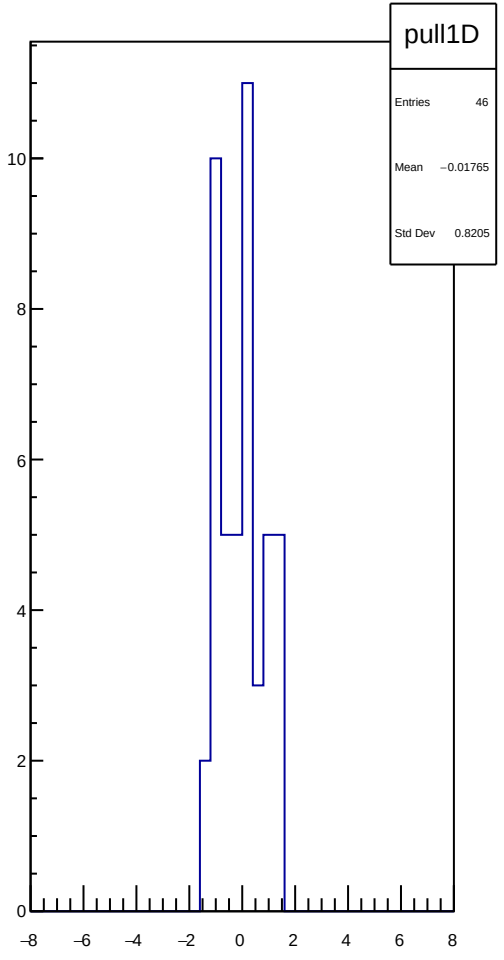

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 49.26 / 45
p0 0.04455 ± 0.1
pull
Entries 46
Mean 52.23
Std Dev 0
pull1D
Entries 46
Mean −0.02066
Std Dev 1.035

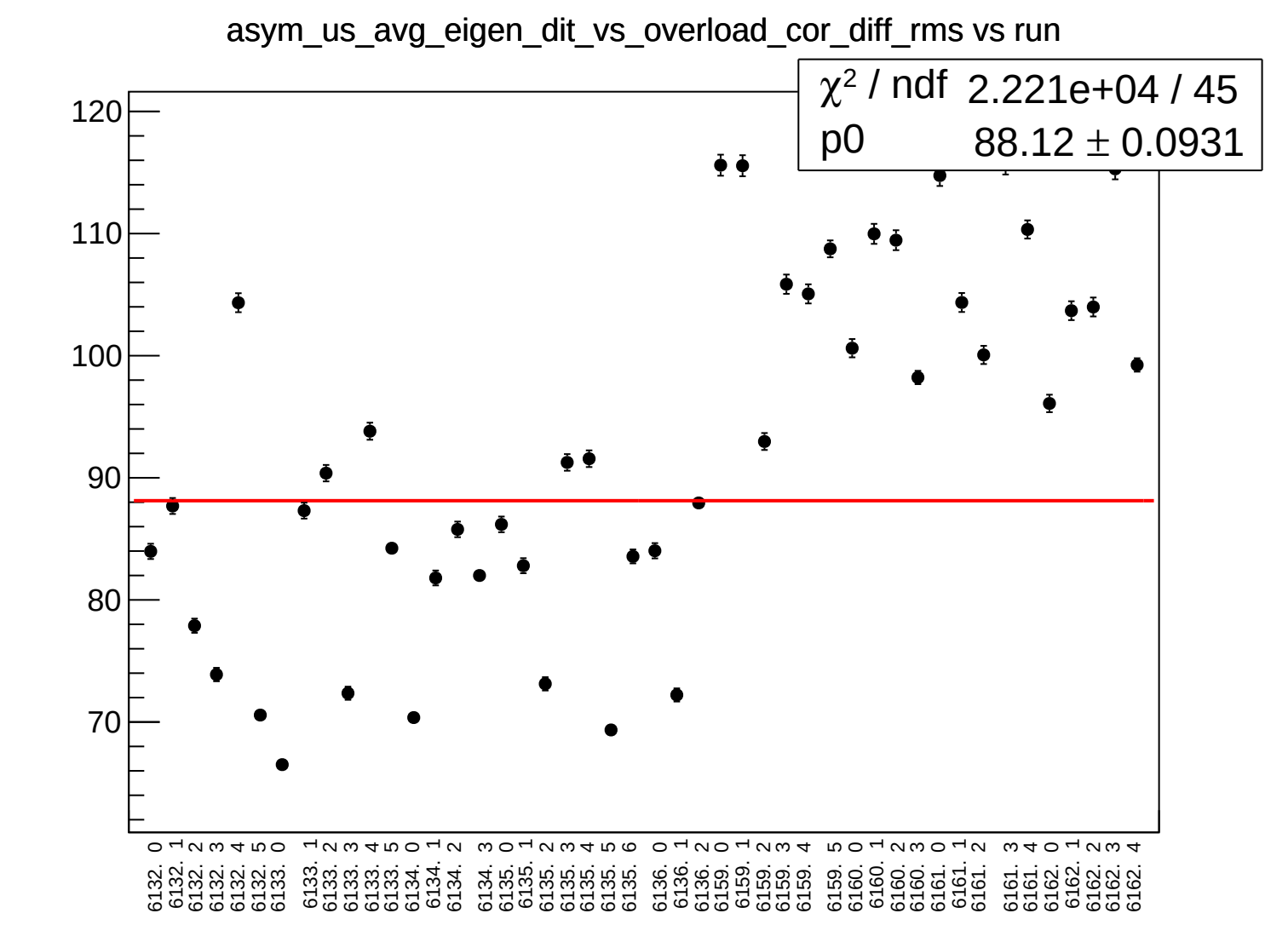

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.212e+04 / 45
p0 66.19 ± 0.07071
100
90
80
70
60
50
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

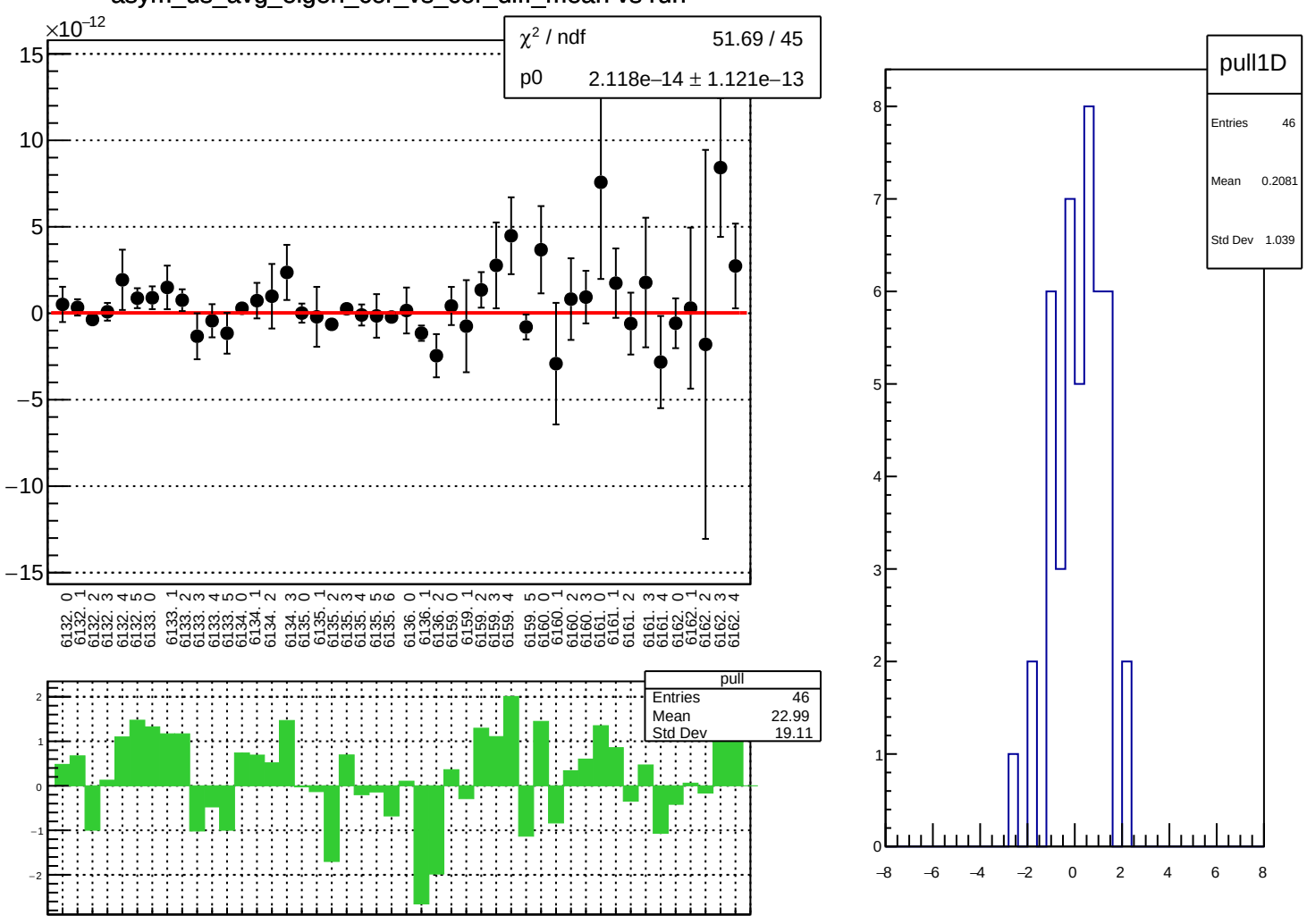

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.26 / 45
p0 0.04455 ± 0.1
pull
Entries 46
Mean 52.23
Std Dev 0
pull1D
Entries 46
Mean −0.02066
Std Dev 1.035

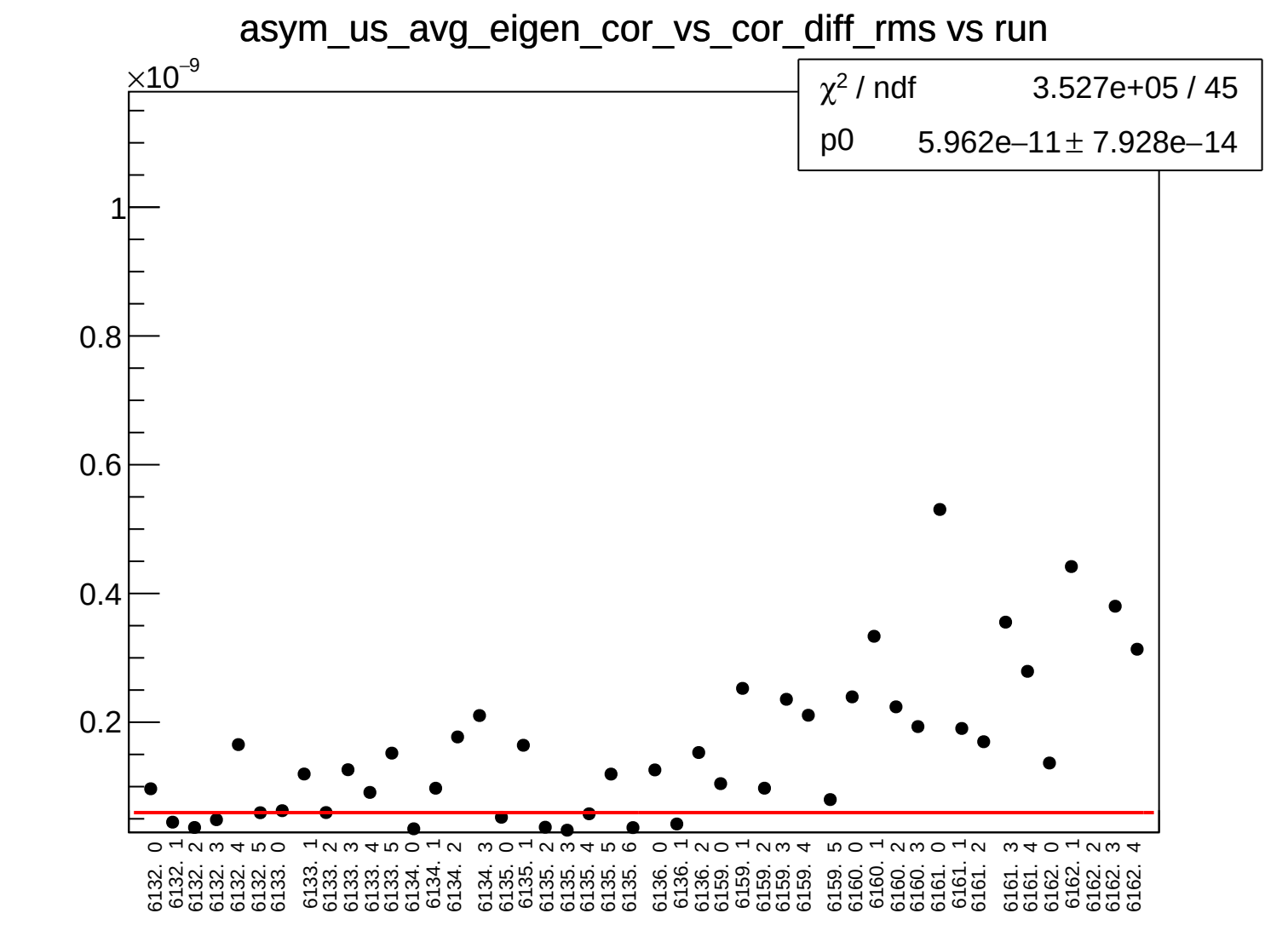

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.212e+04 / 45
p0 66.19 ± 0.07071
100
90
80
70
60
50
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

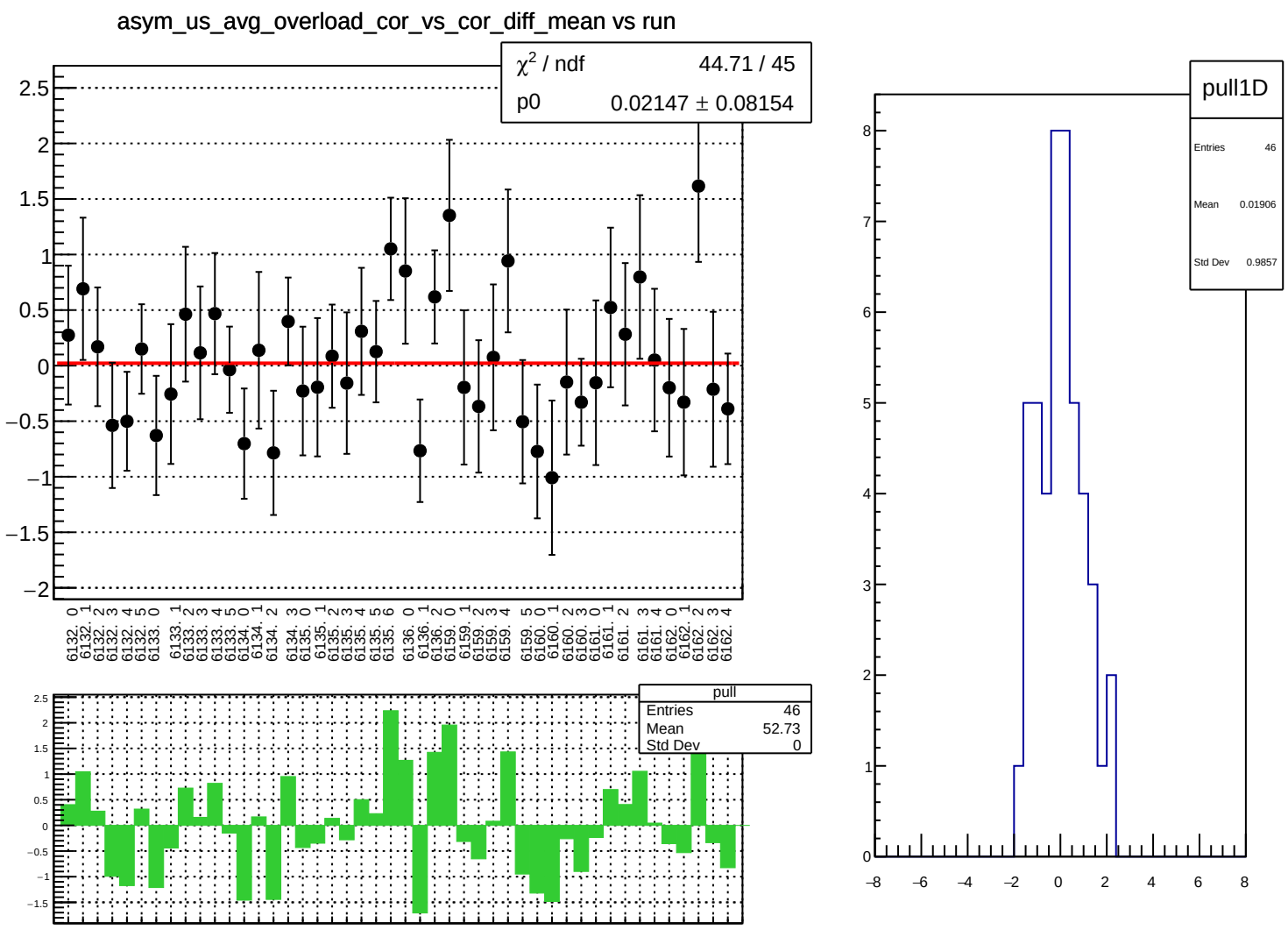

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 30.98 / 45
p0 0.002111 ± 0.1317
pull
Entries 46
Mean 61.4
Std Dev 0

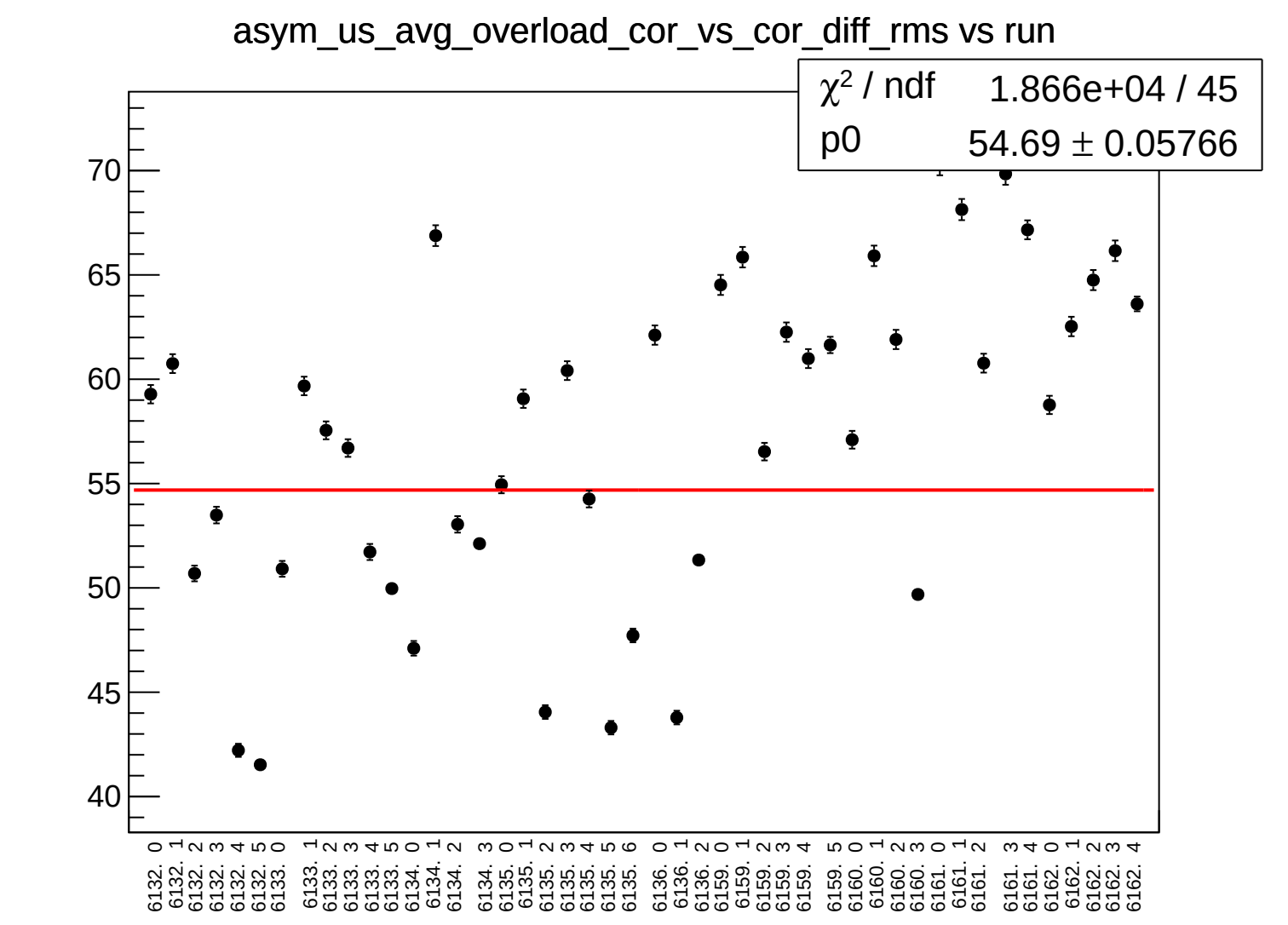

pull1D
Entries 46
Mean −0.01765
Std Dev 0.8205


asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.221e+04 / 45
p0 88.12 ± 0.0931
120
110
100
90
80
70
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 51.69 / 45
p0 2.118e−14 ± 1.121e−13
15
10
5
0
−5
−10
−15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 22.99
Std Dev 19.11
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.2081
Std Dev 1.039
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.527e+05 / 45
p0 5.962e−11 ± 7.928e−14
1
0.8
0.6
0.4
0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 44.71 / 45
p0 0.02147 ± 0.08154
pull
Entries 46
Mean 52.73
Std Dev 0
pull1D
Entries 46
Mean 0.01906
Std Dev 0.9857


asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.866e+04 / 45
p0 54.69 ± 0.05766
70
65
60
55
50
45
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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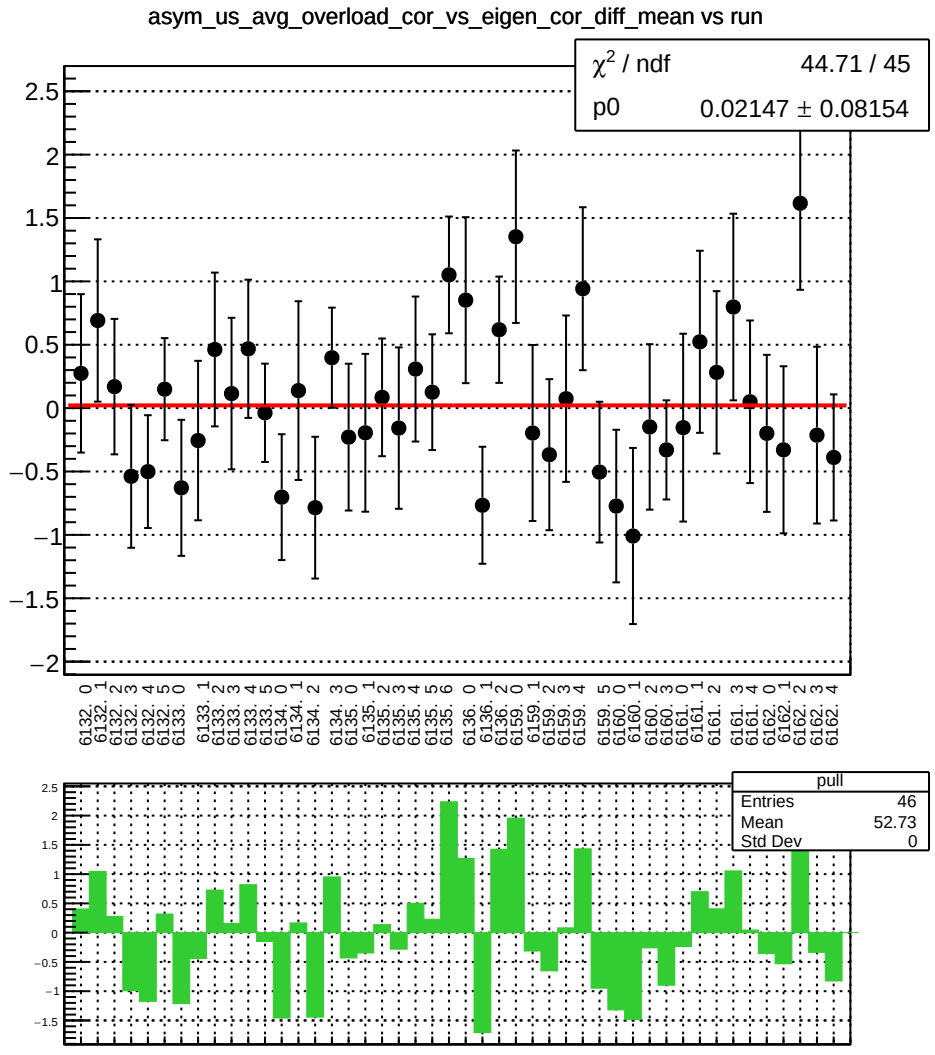
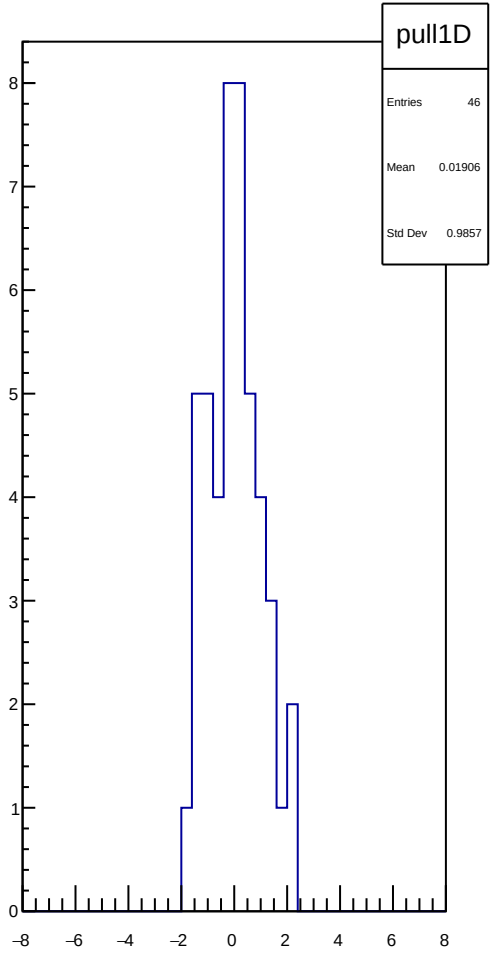
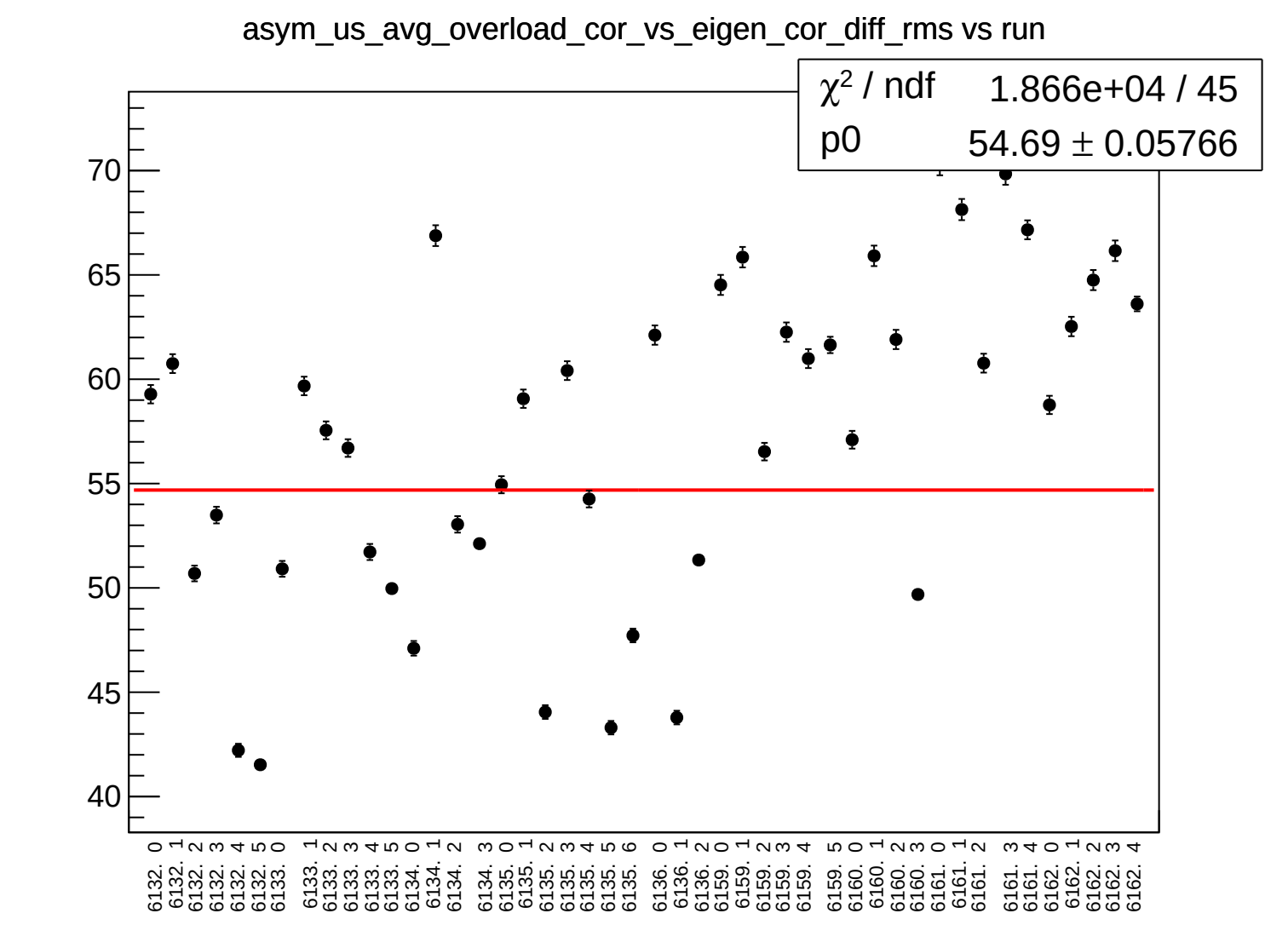
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.71 / 45
p0 0.02147 ± 0.08154
pull
Entries 46
Mean 52.73
Std Dev 0


pull1D
Entries 46
Mean 0.01906
Std Dev 0.9857


asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.866e+04 / 45
p0 54.69 ± 0.05766
70
65
60
55
50
45
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
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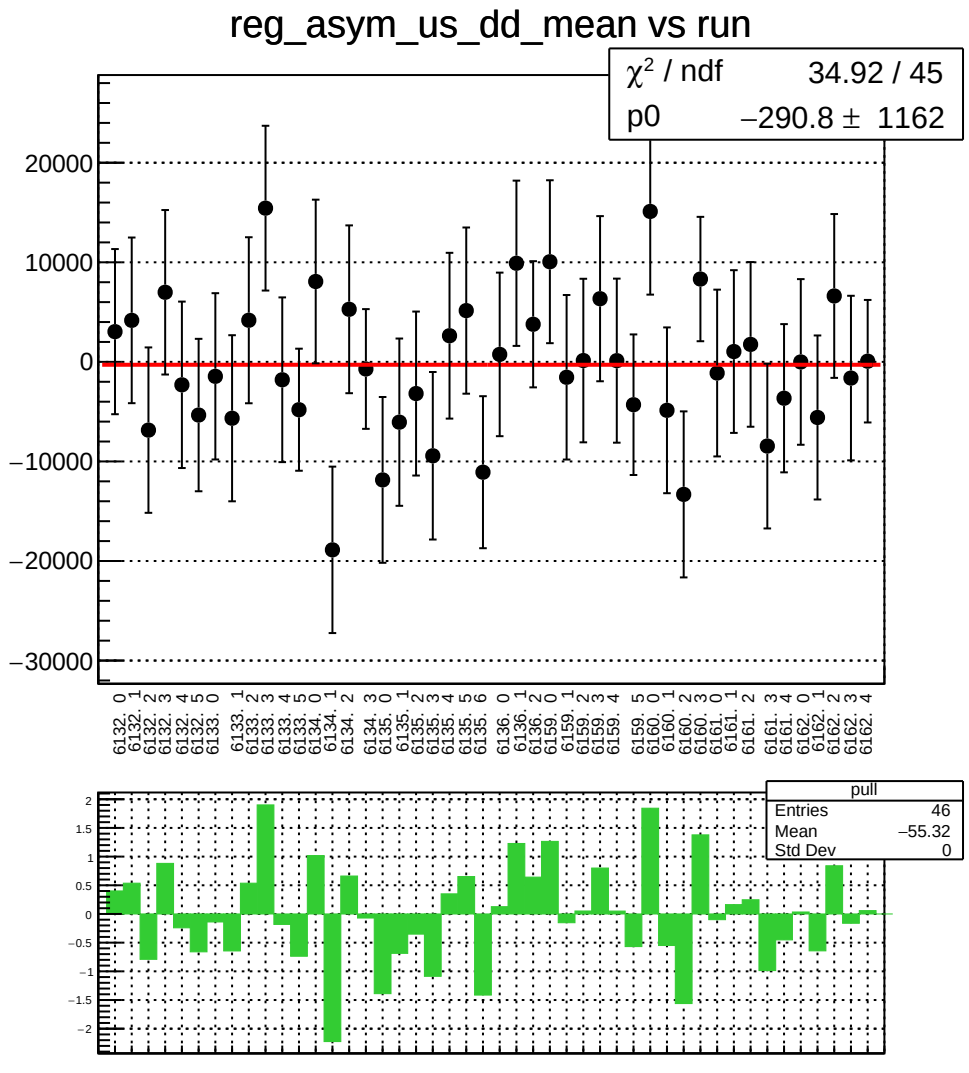
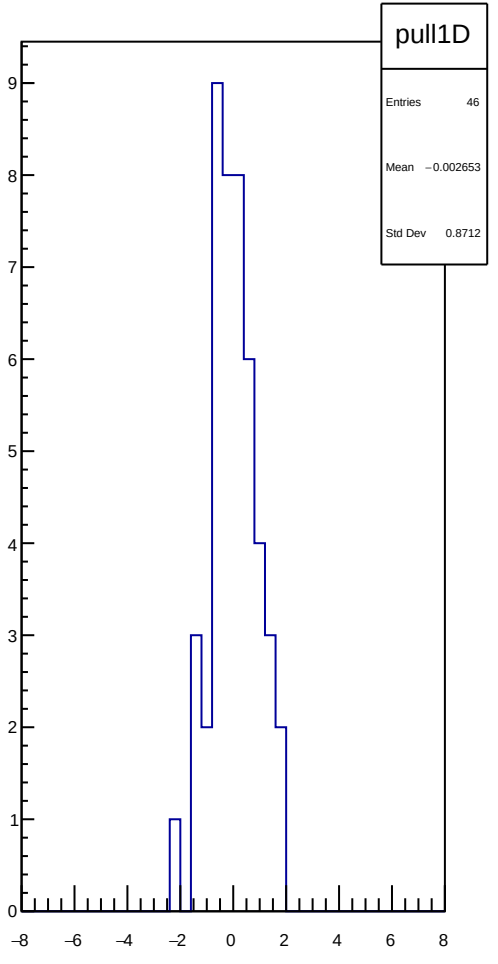
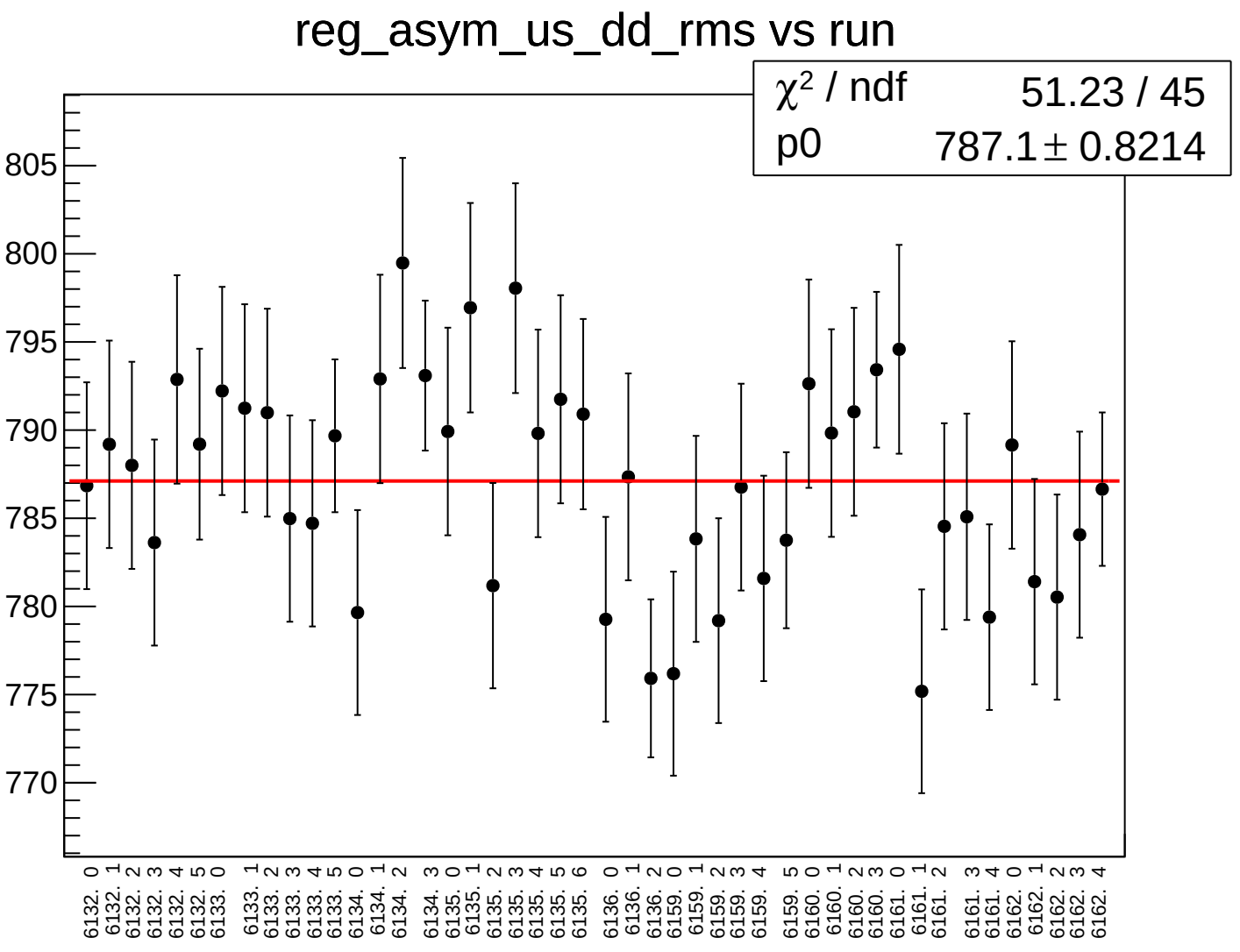
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_us_dd_mean vs run
χ² / ndf 34.92 / 45
p0 −290.8 ± 1162
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −55.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean −0.002653
Std Dev 0.8712
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_dd_rms vs run
χ² / ndf 51.23 / 45
p0 787.1 ± 0.8214
805
800
795
790
785
780
775
770
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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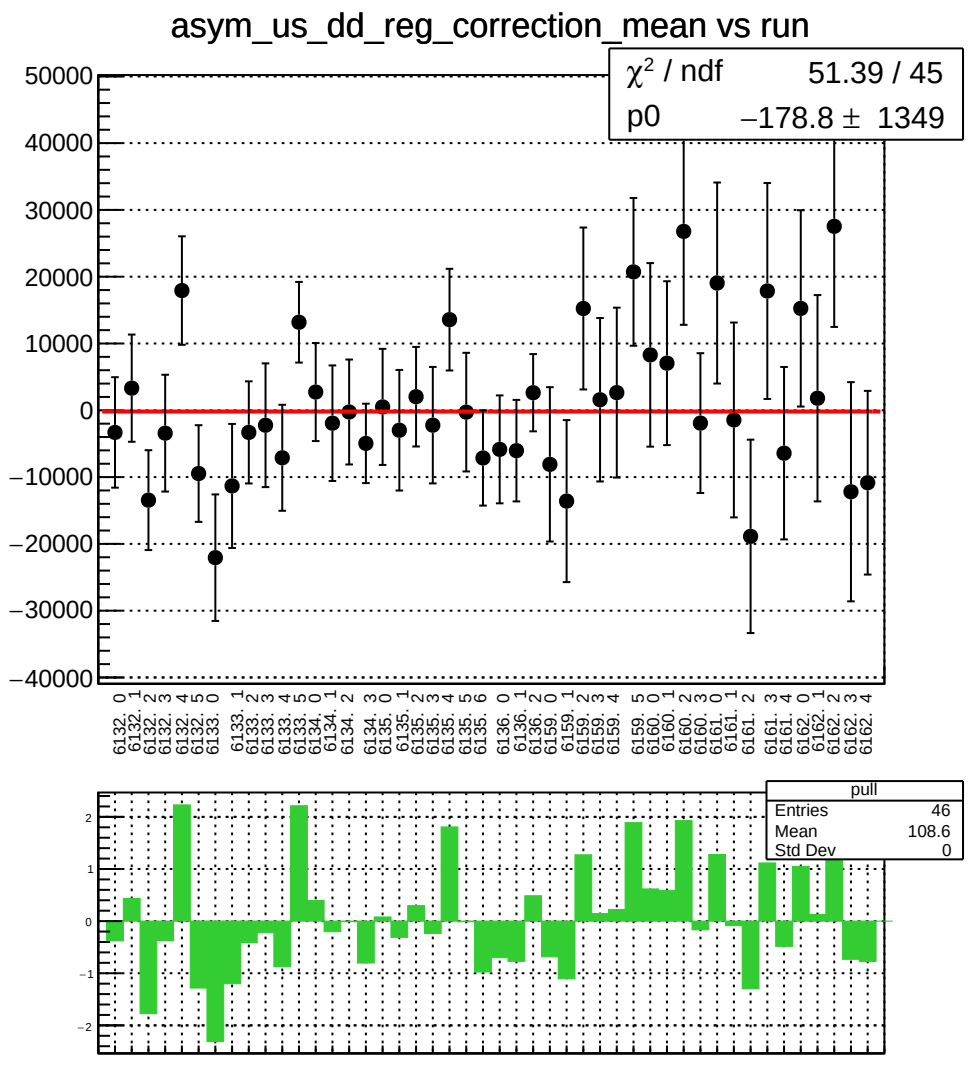
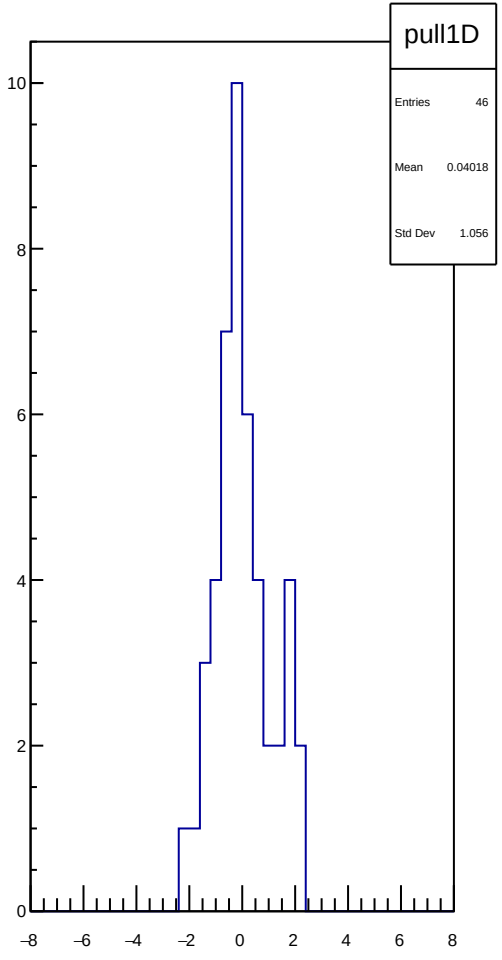
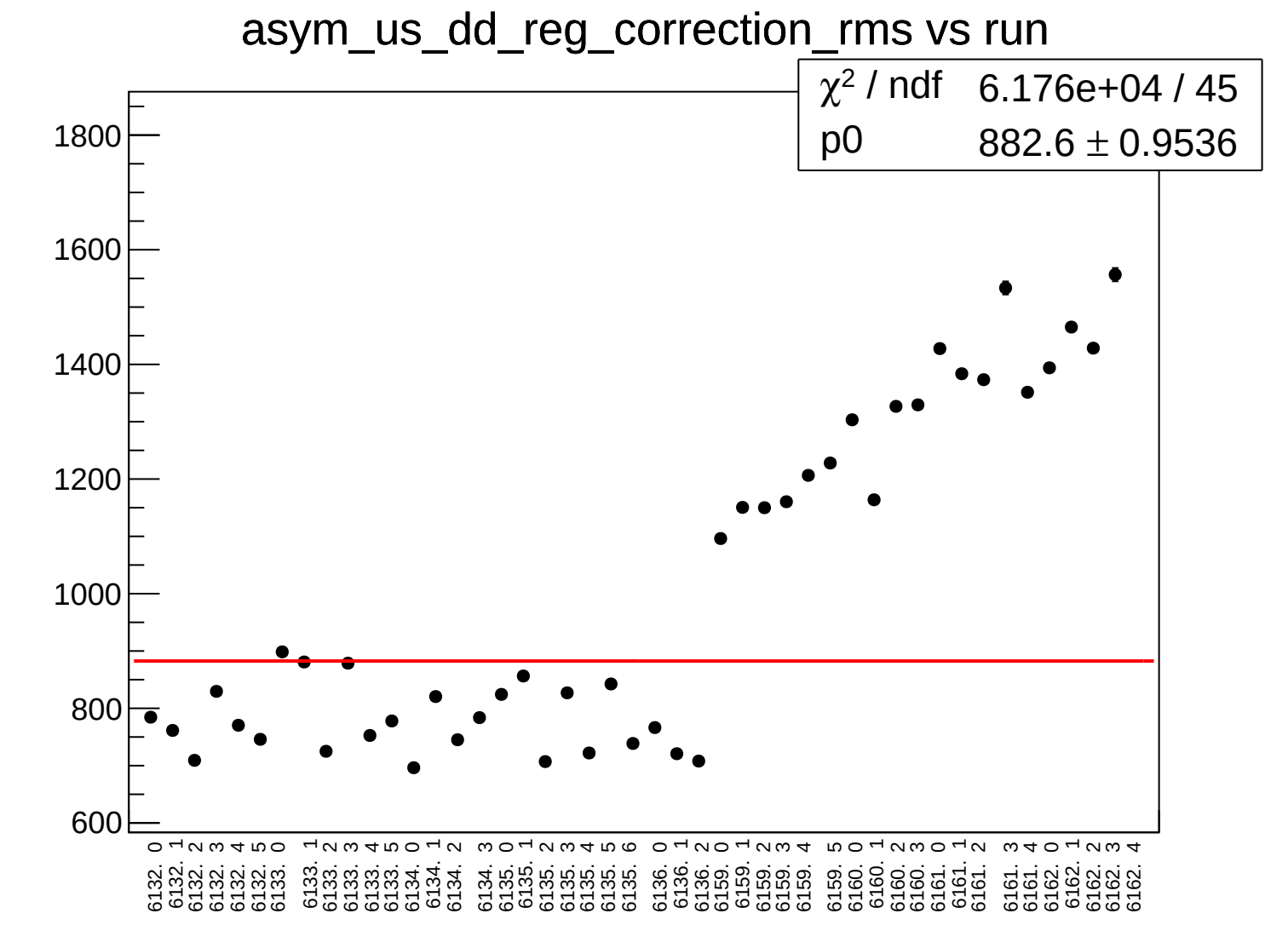
6162. 4


asym_us_dd_reg_correction_mean vs run
χ² / ndf 51.39 / 45
p0 −178.8 ± 1349
pull
Entries 46
Mean 108.6
Std Dev 0


pull1D
Entries 46
Mean 0.04018
Std Dev 1.056


asym_us_dd_reg_correction_rms vs run
χ² / ndf 6.176e+04 / 45
p0 882.6 ± 0.9536
1800
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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6135. 2
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6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
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6161. 4
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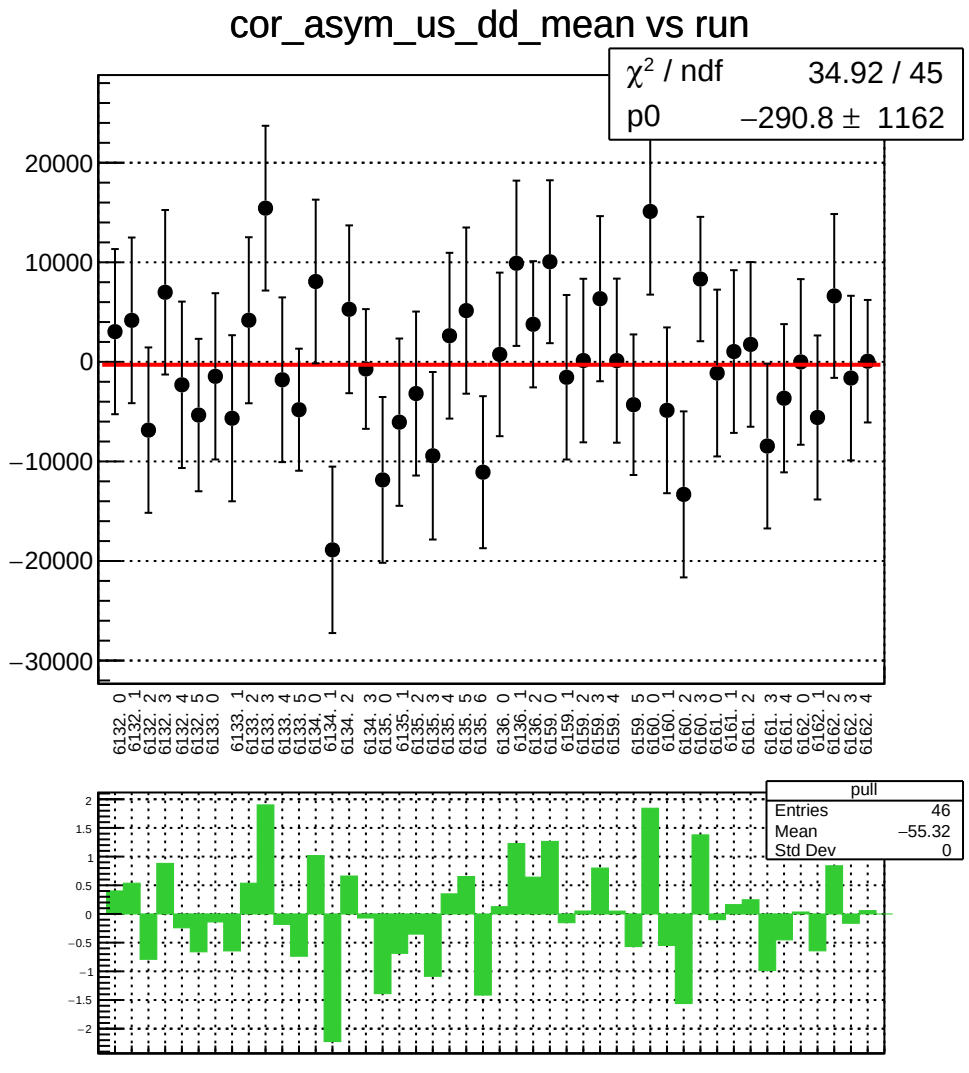
cor_asym_us_dd_mean vs run
χ² / ndf 34.92 / 45
p0 −290.8 ± 1162
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −55.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.002653
Std Dev 0.8712
9
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5
4
3
2
1
0
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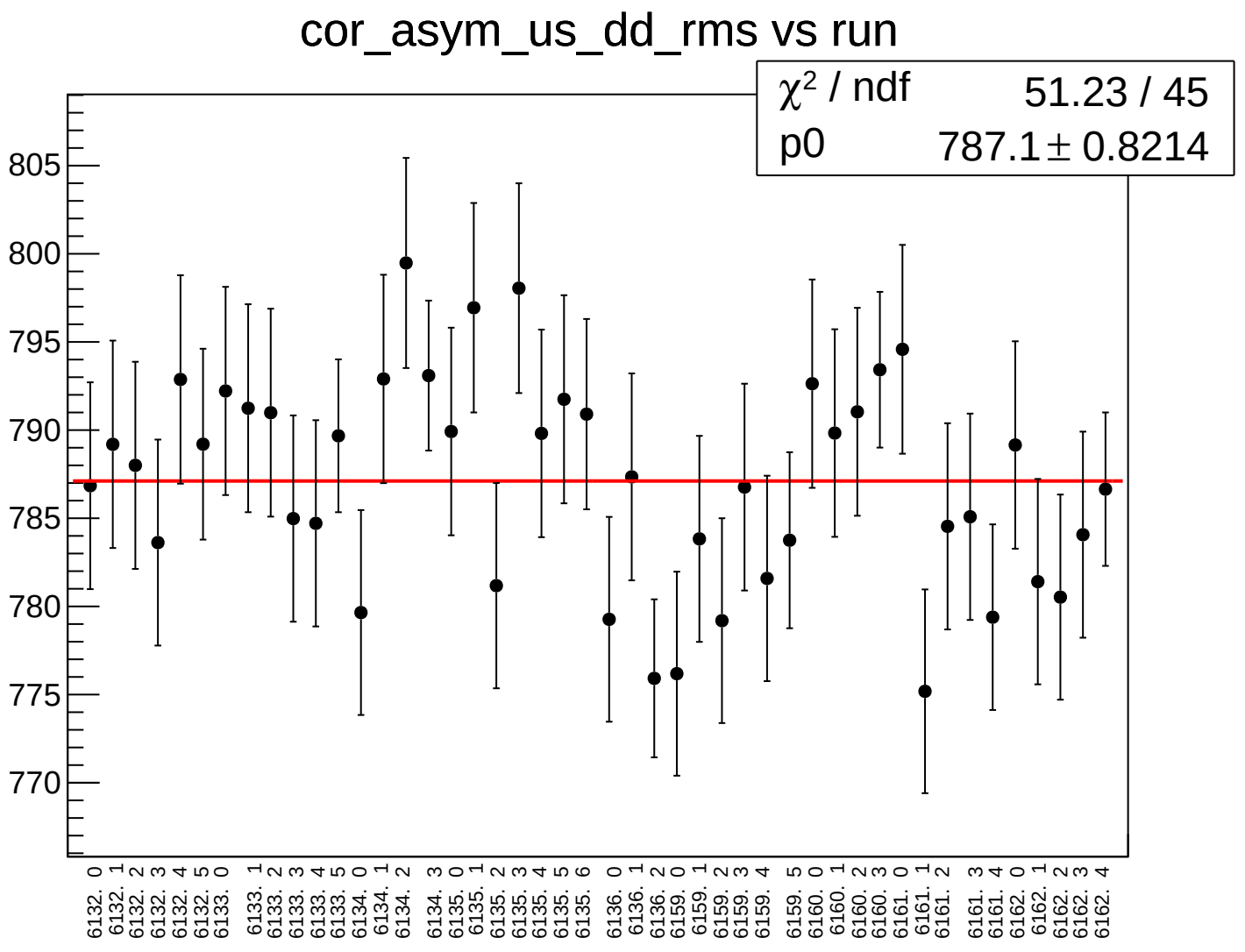
−6
−4
−2
0
2
4
6
8


cor_asym_us_dd_rms vs run
χ² / ndf 51.23 / 45
p0 787.1 ± 0.8214
805
800
795
790
785
780
775
770
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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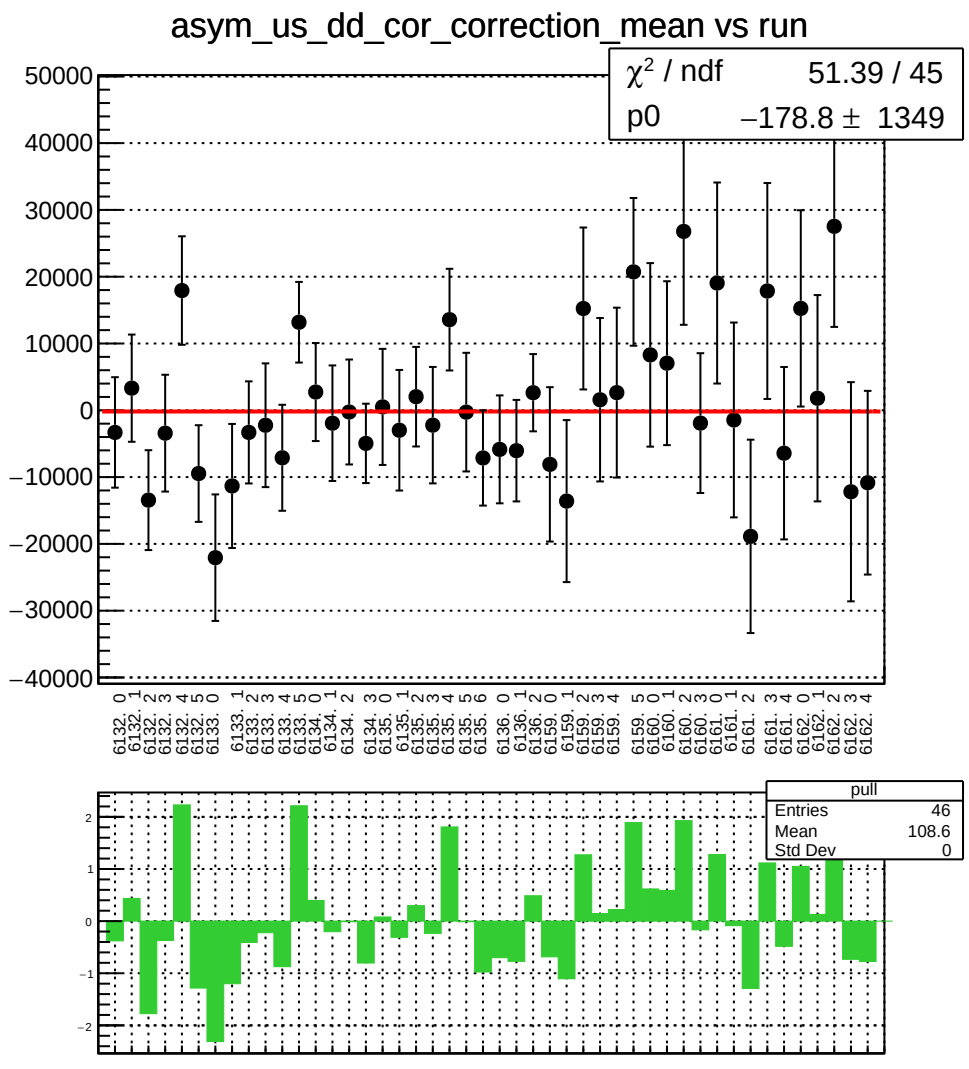
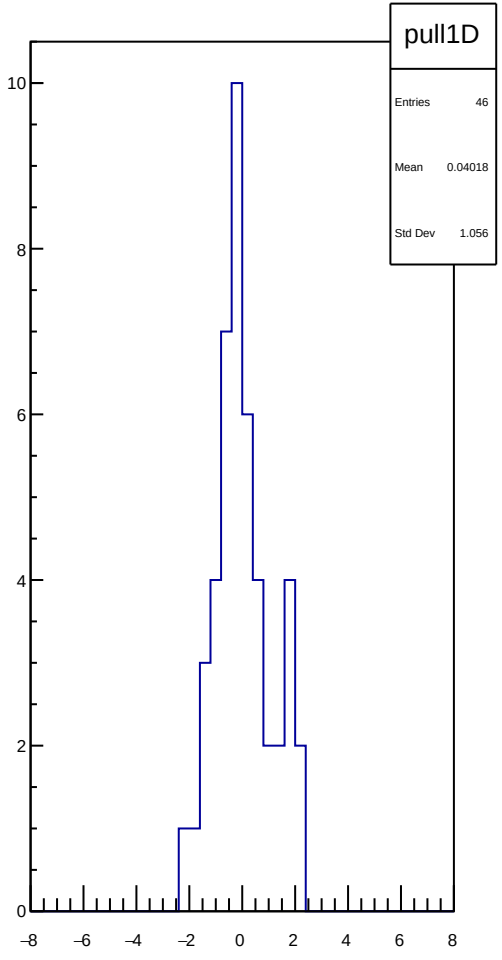
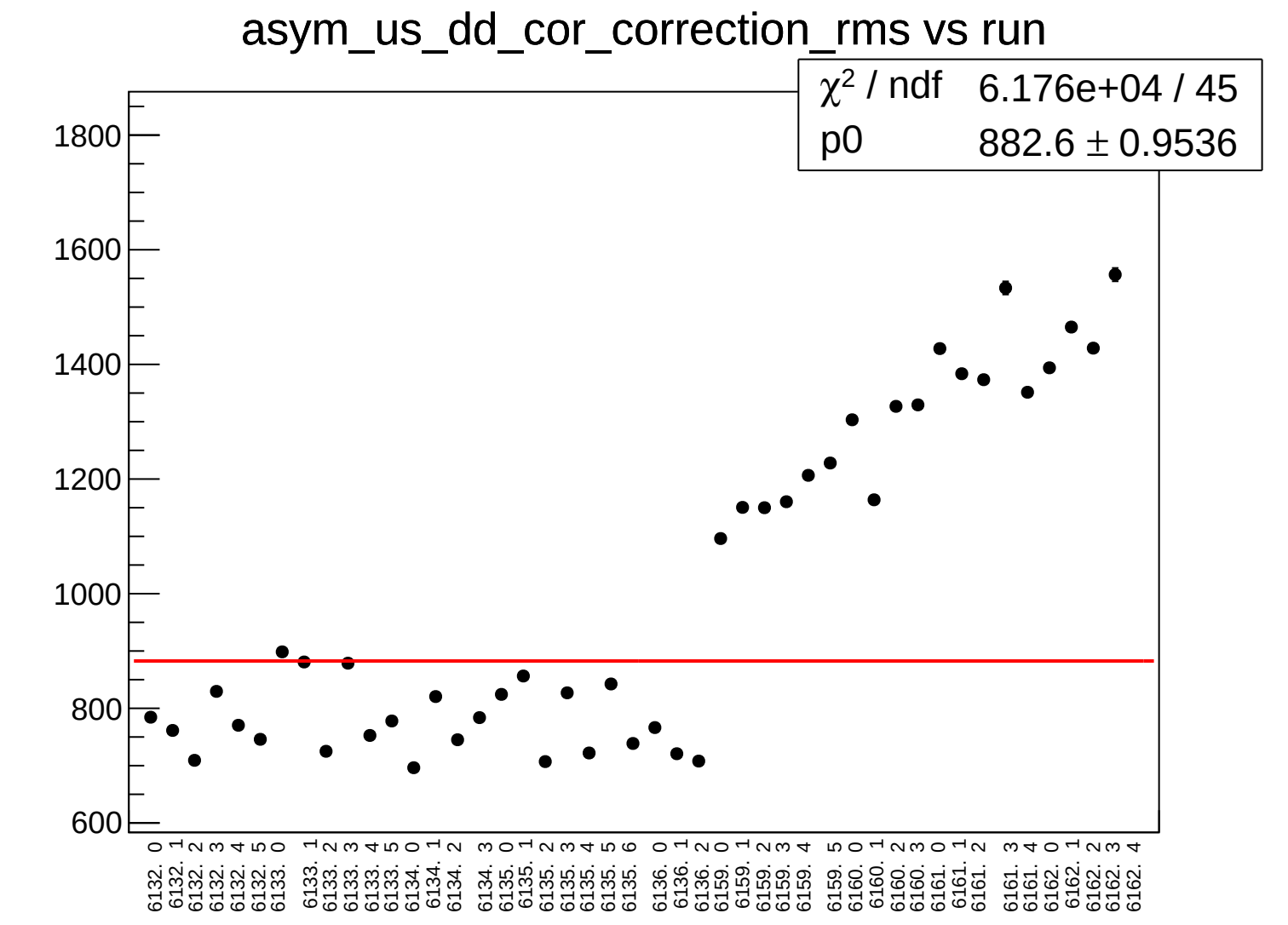
6162. 4


asym_us_dd_cor_correction_mean vs run
χ² / ndf 51.39 / 45
p0 −178.8 ± 1349
pull
Entries 46
Mean 108.6
Std Dev 0


pull1D
Entries 46
Mean 0.04018
Std Dev 1.056


asym_us_dd_cor_correction_rms vs run
χ² / ndf 6.176e+04 / 45
p0 882.6 ± 0.9536
1800
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
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6136. 2
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6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
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6161. 4
6162. 0
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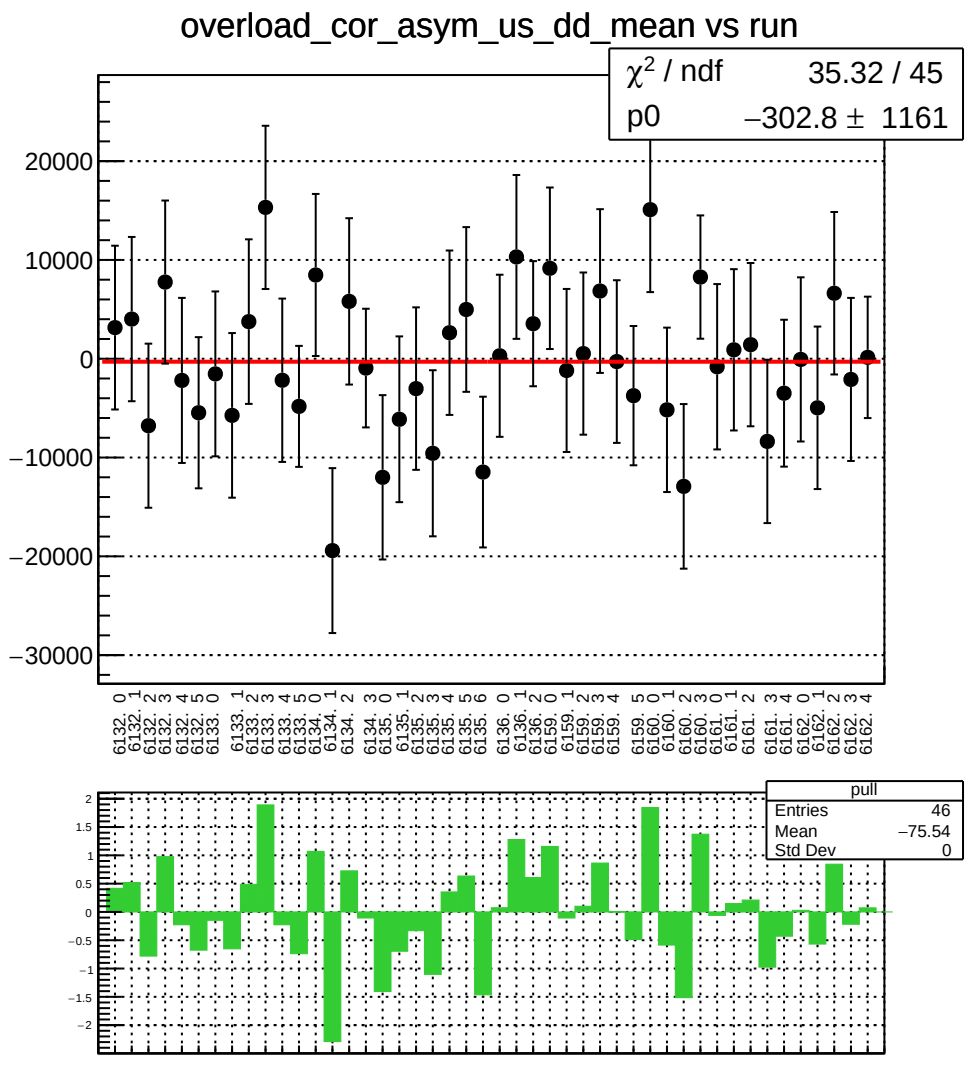
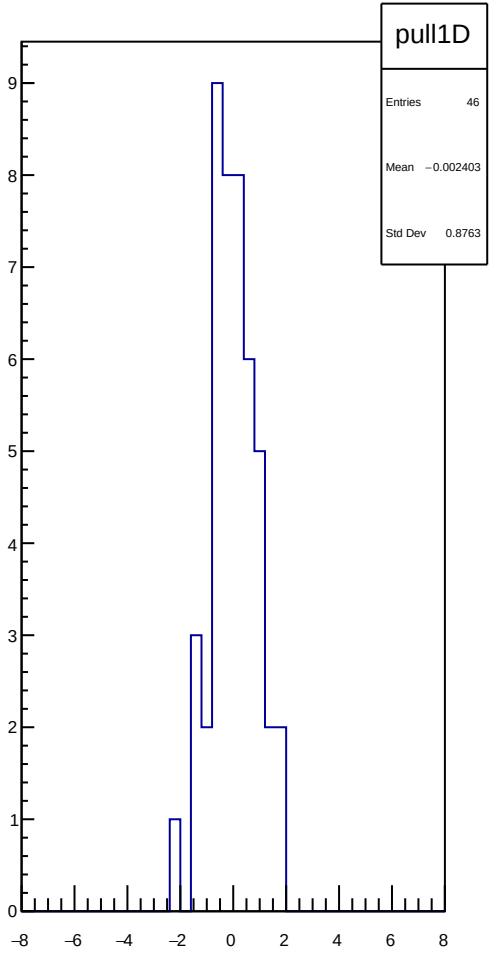
6162. 2
6162. 3
6162. 4


overload_cor_asym_us_dd_mean vs run
χ² / ndf 35.32 / 45
p0 −302.8 ± 1161
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −75.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean −0.002403
Std Dev 0.8763
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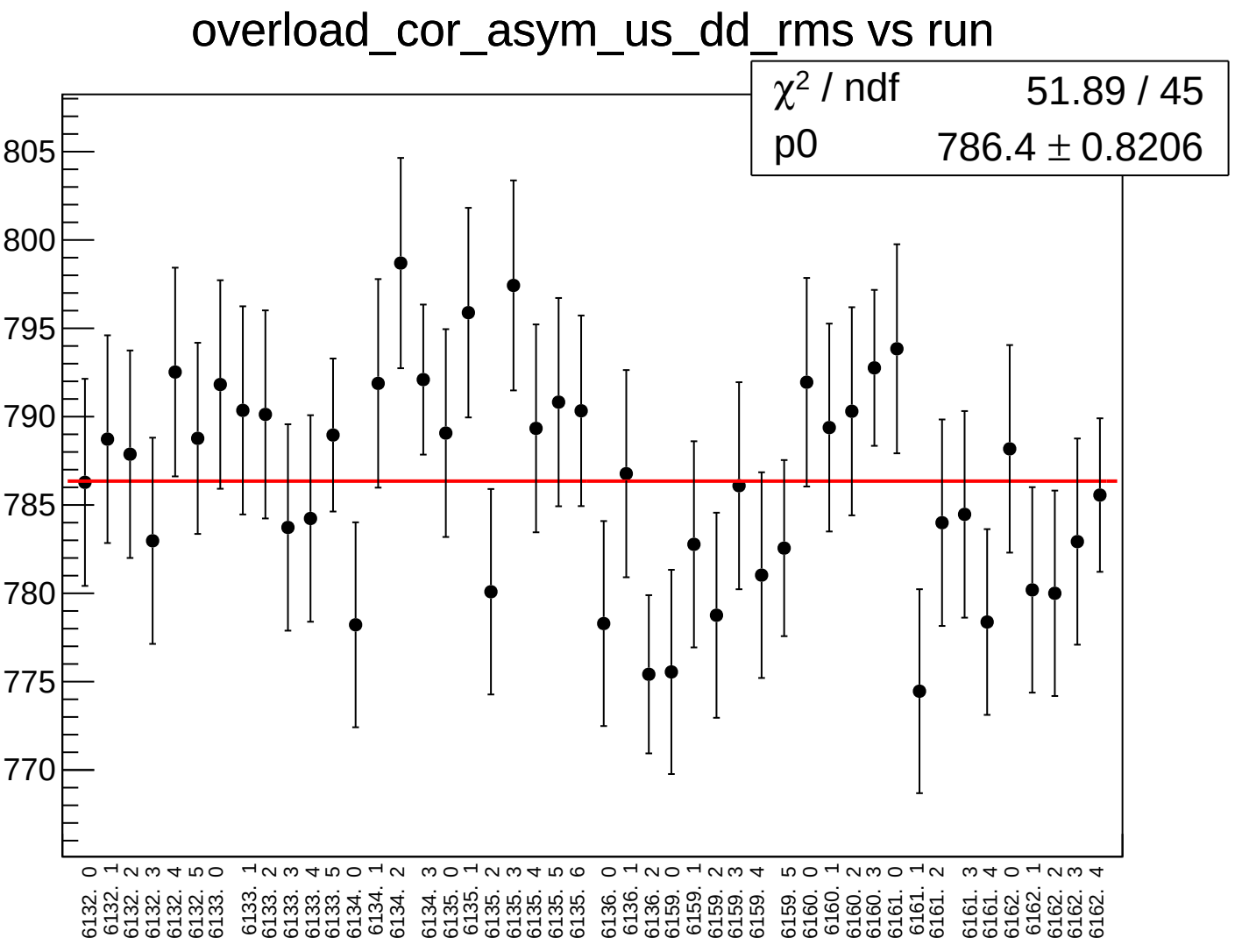
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


overload_cor_asym_us_dd_rms vs run
χ² / ndf 51.89 / 45
p0 786.4 ± 0.8206
805
800
795
790
785
780
775
770
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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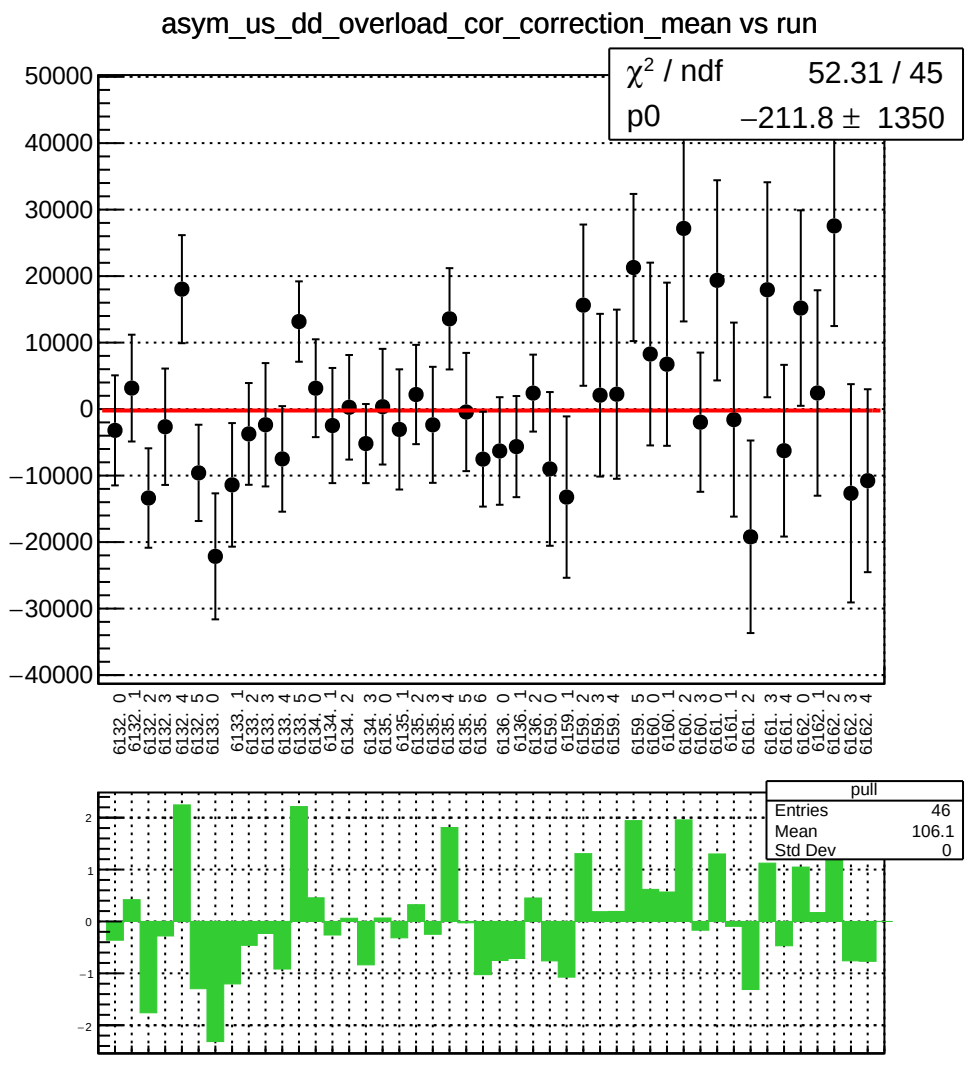
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 52.31 / 45
p0 −211.8 ± 1350
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
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6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
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6133. 5
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6134. 2
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6135. 2
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6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 106.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.04148
Std Dev 1.066
9
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7
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5
4
3
2
1
0
−8
−6
−4
−2
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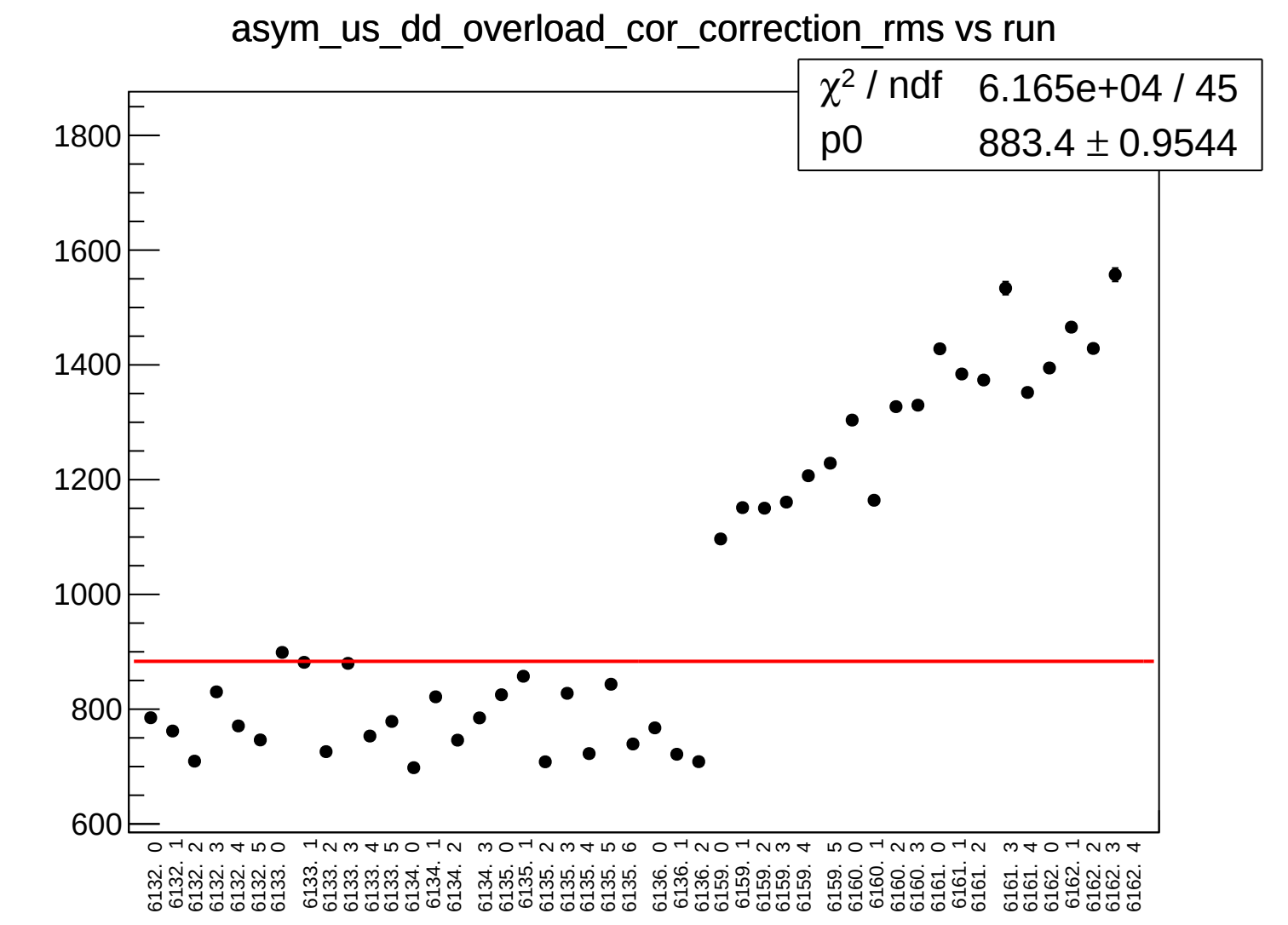
2
4
6
8


asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 6.165e+04 / 45
p0 883.4 ± 0.9544
1800
1600
1400
1200
1000
800
600
6132. 0
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6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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6133. 4
6133. 5
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6134. 2
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6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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6159. 3
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6159. 5
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6160. 2
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6161. 4
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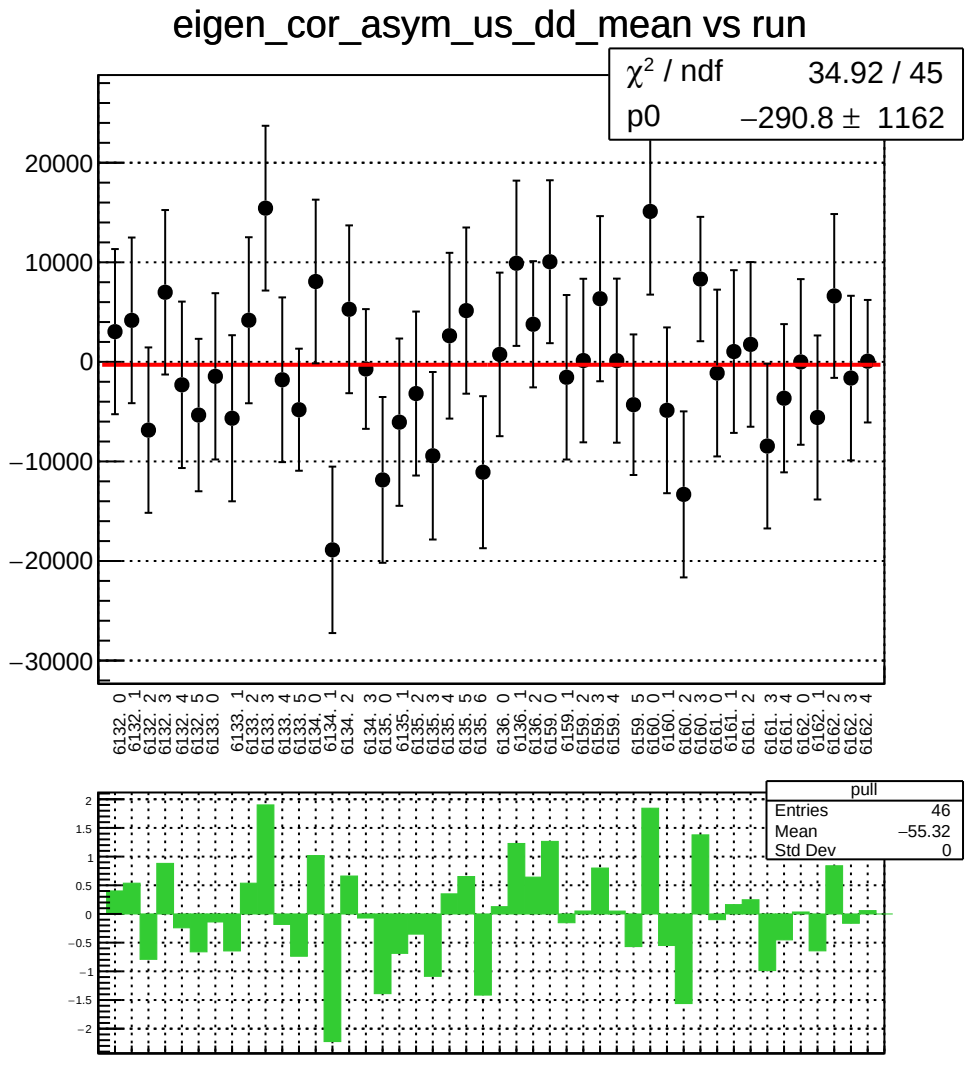
6162. 3
6162. 4


eigen_cor_asym_us_dd_mean vs run
χ² / ndf 34.92 / 45
p0 −290.8 ± 1162
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 2
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6135. 4
6135. 5
6135. 6
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6136. 2
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6159. 3
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6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −55.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.002653
Std Dev 0.8712
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5
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3
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1
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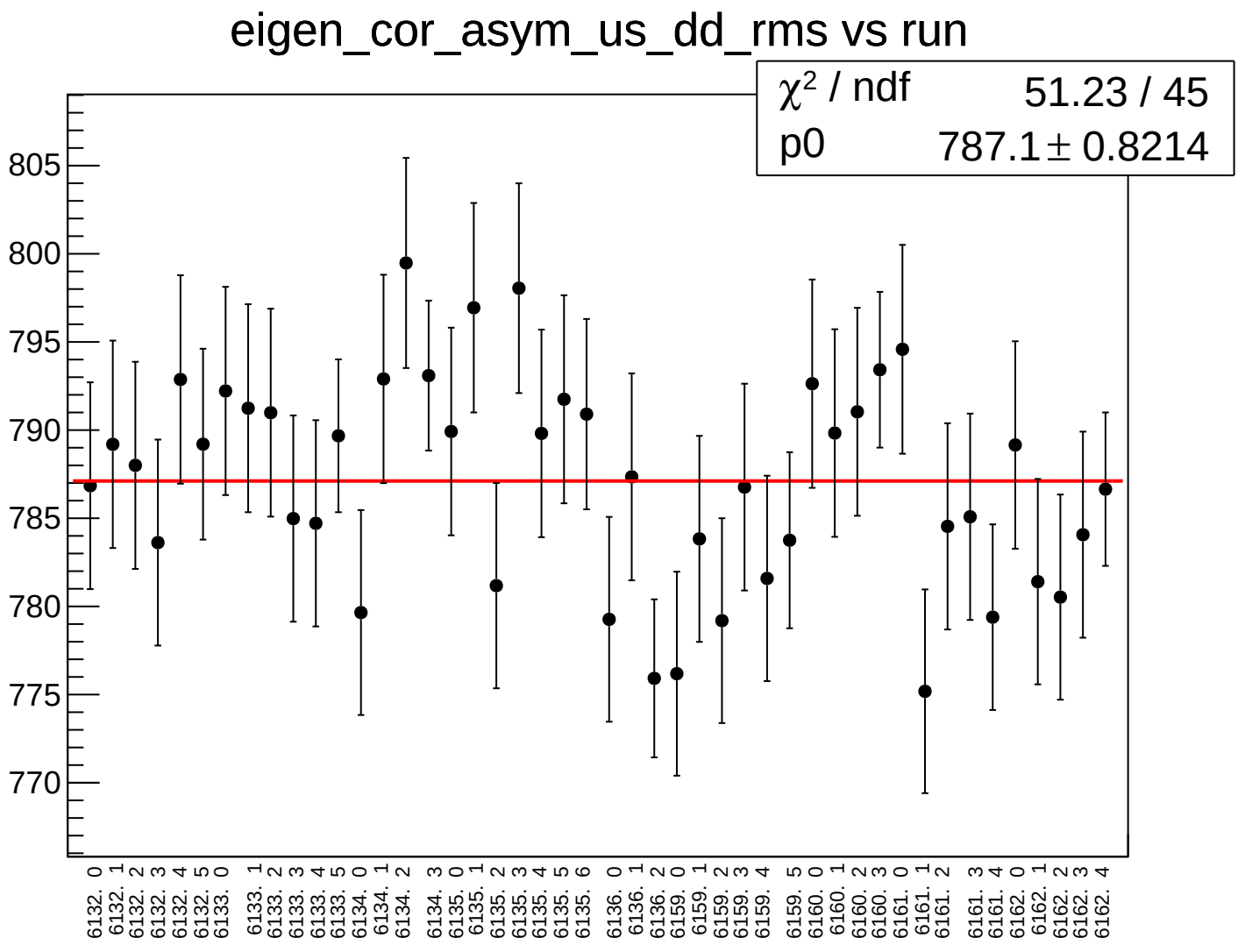
−4
−2
0
2
4
6
8


eigen_cor_asym_us_dd_rms vs run
χ² / ndf 51.23 / 45
p0 787.1 ± 0.8214
805
800
795
790
785
780
775
770
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
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6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
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6136. 0
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6160. 0
6160. 1
6160. 2
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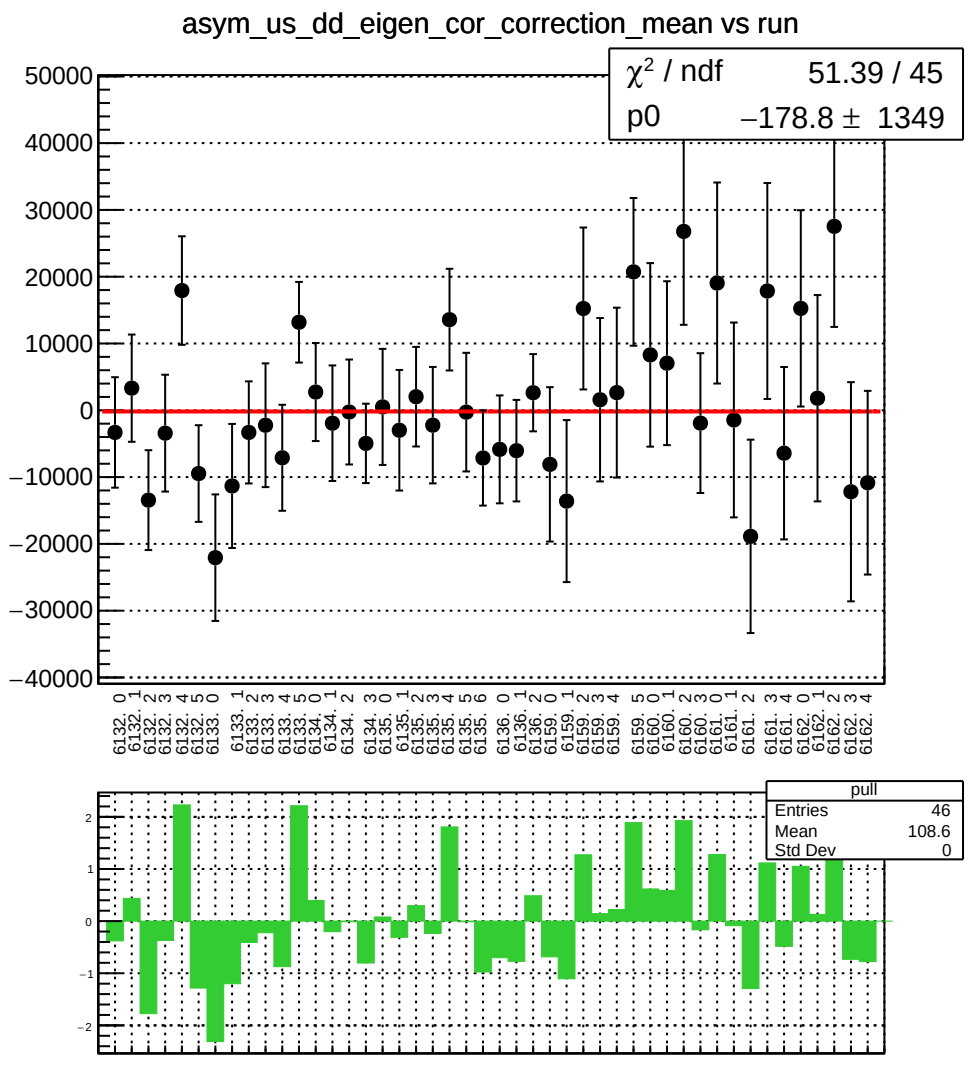
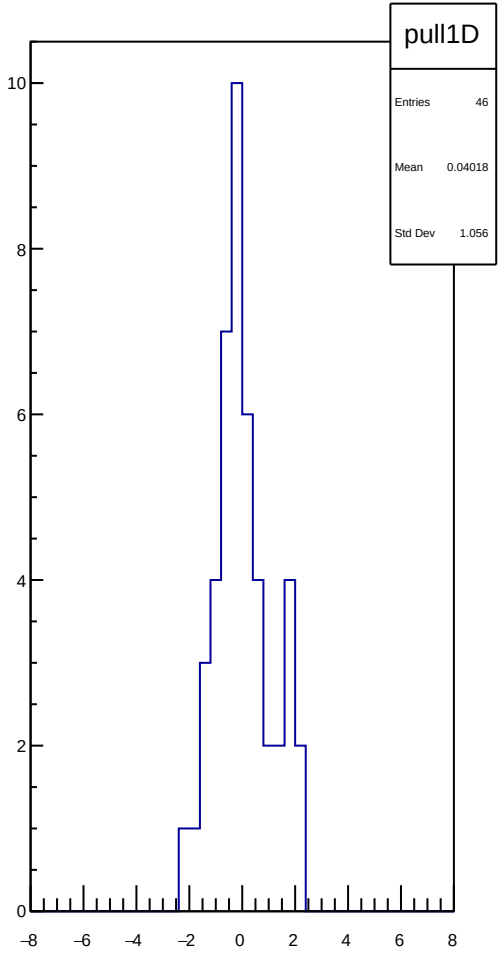
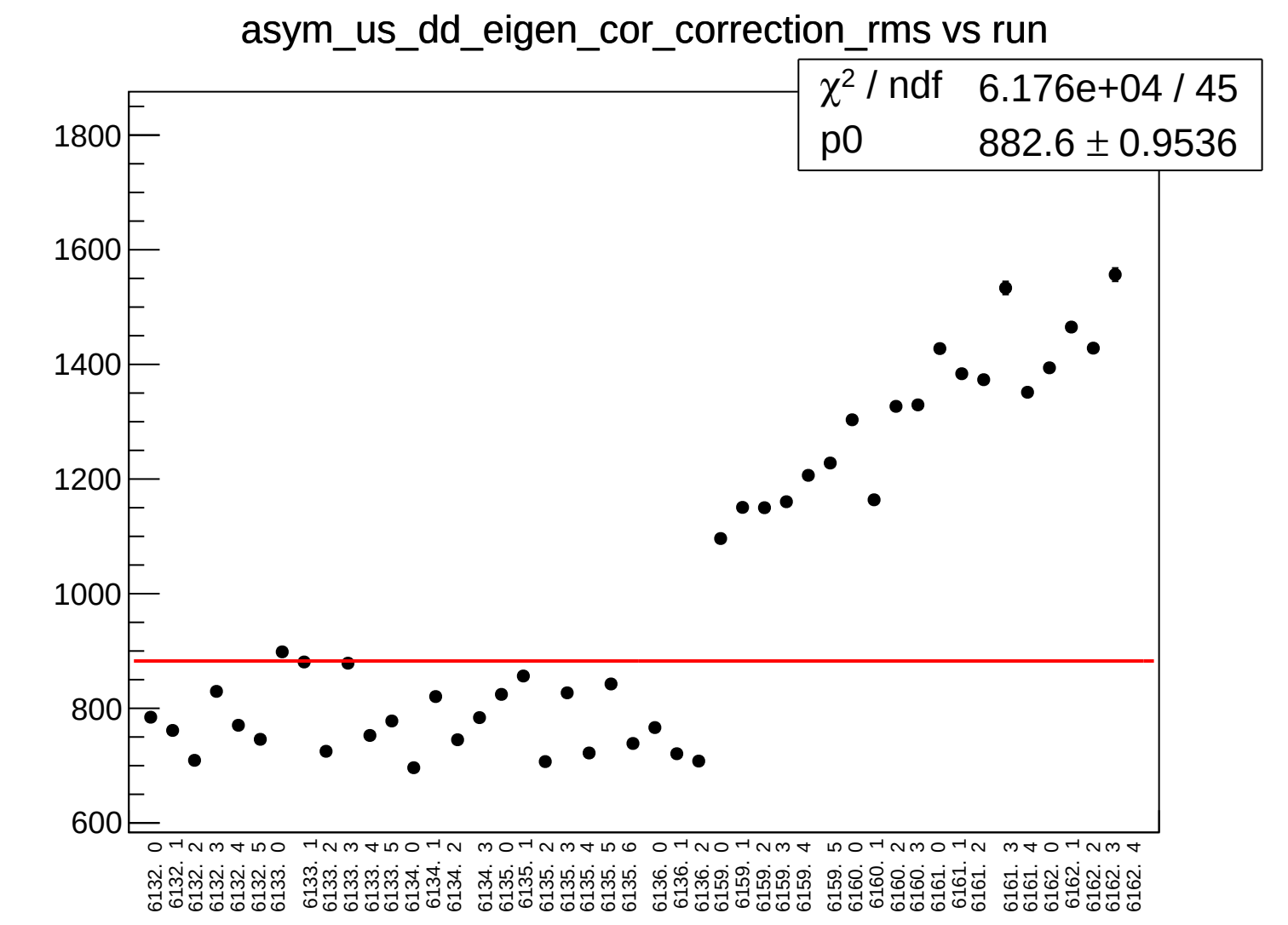
6162. 4


asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 51.39 / 45
p0 −178.8 ± 1349
pull
Entries 46
Mean 108.6
Std Dev 0


pull1D
Entries 46
Mean 0.04018
Std Dev 1.056


asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.176e+04 / 45
p0 882.6 ± 0.9536
1800
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
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6135. 5
6135. 6
6136. 0
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6136. 2
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6159. 2
6159. 3
6159. 4
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6160. 1
6160. 2
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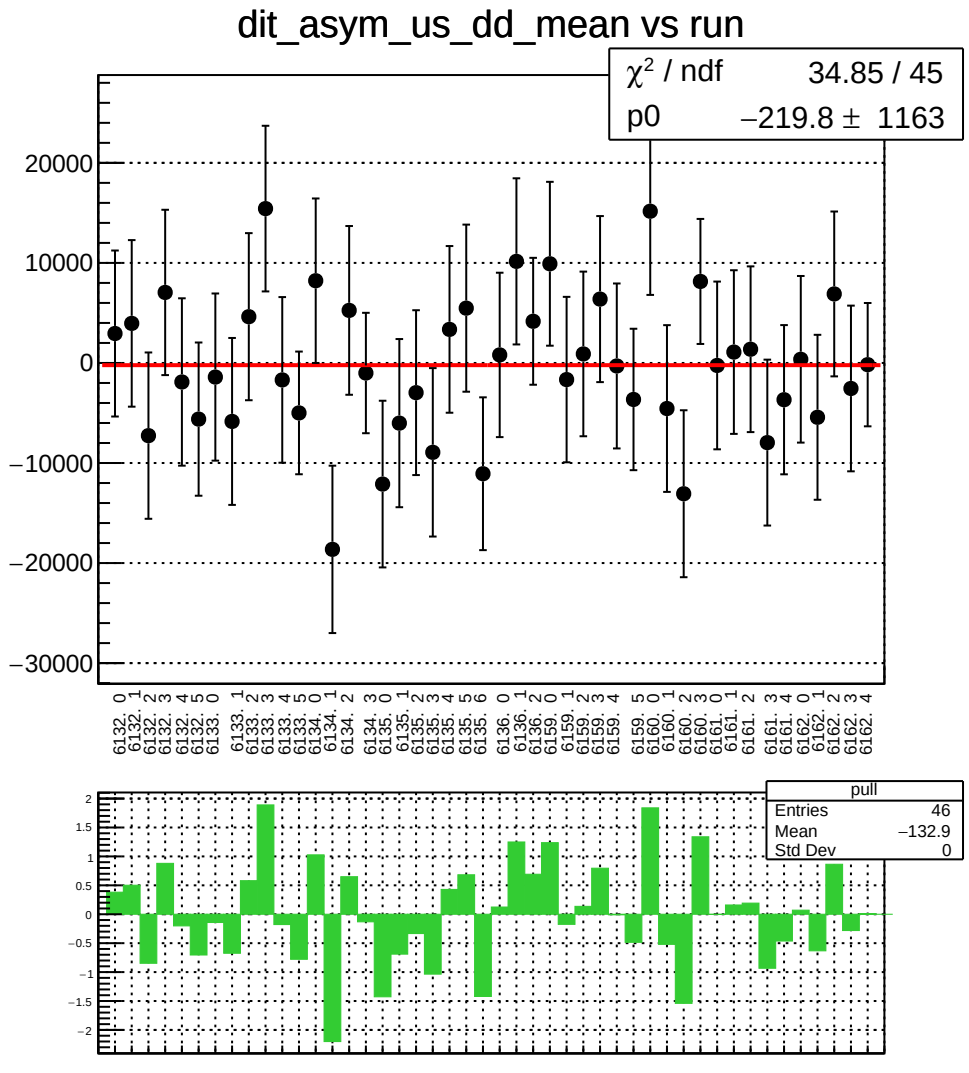
dit_asym_us_dd_mean vs run
χ² / ndf 34.85 / 45
p0 −219.8 ± 1163
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
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6160. 1
6160. 2
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6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −132.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.001657
Std Dev 0.8704
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5
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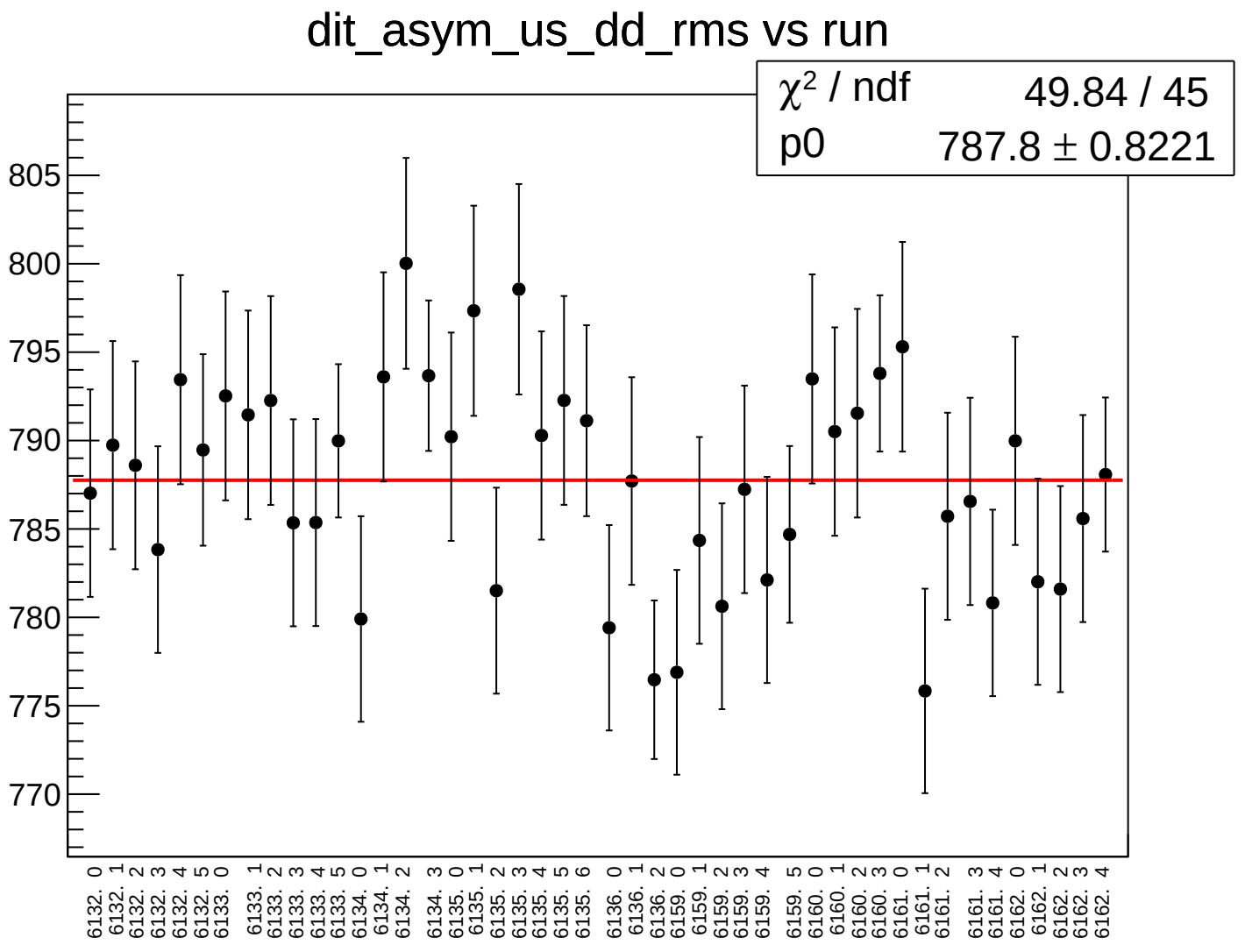
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_dd_rms vs run
χ² / ndf 49.84 / 45
p0 787.8 ± 0.8221
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800
795
790
785
780
775
770
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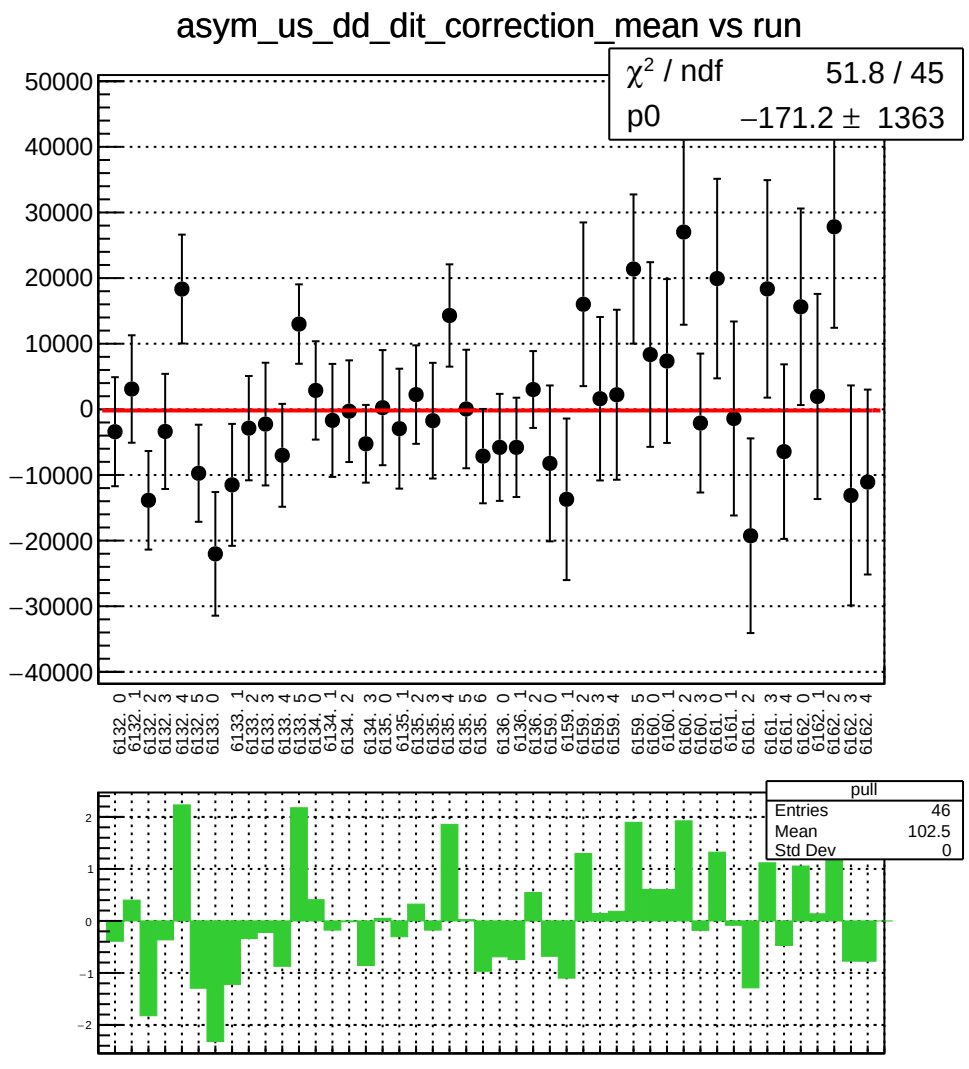
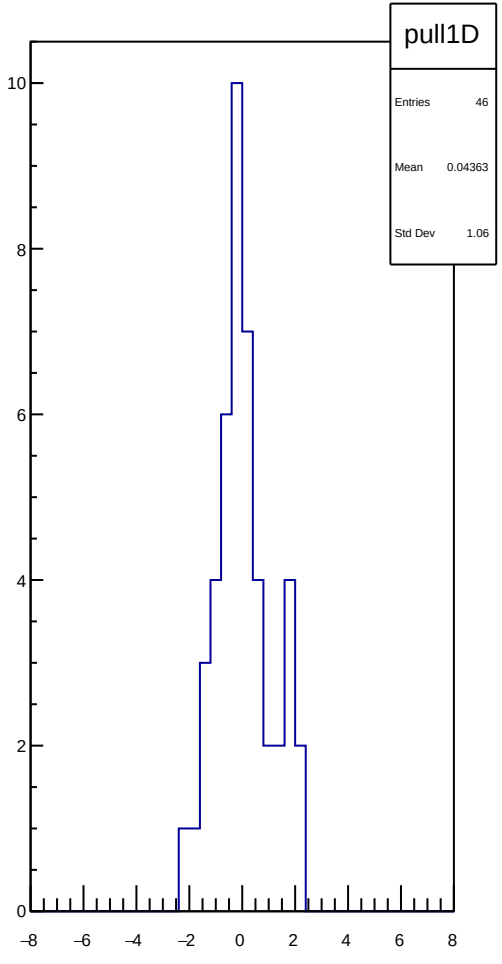
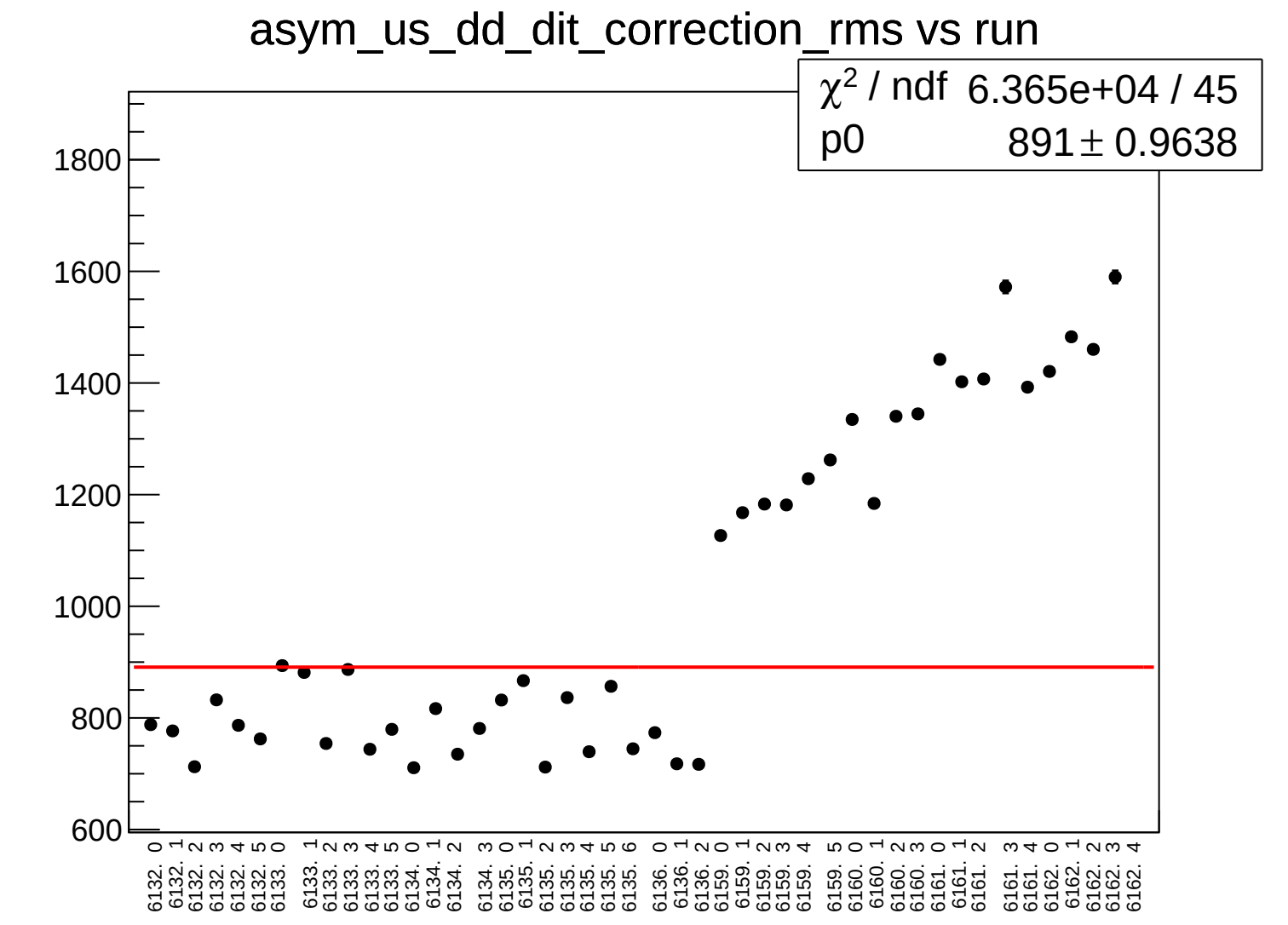
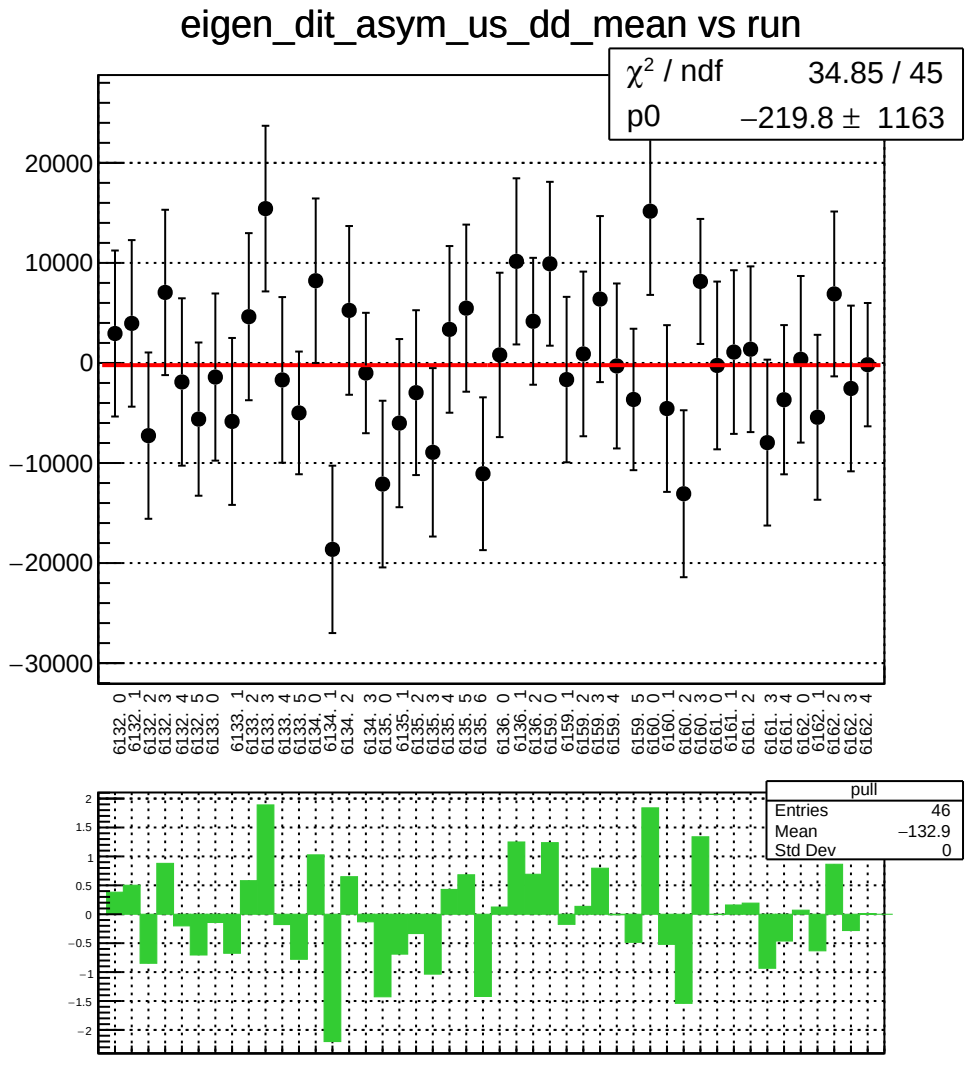
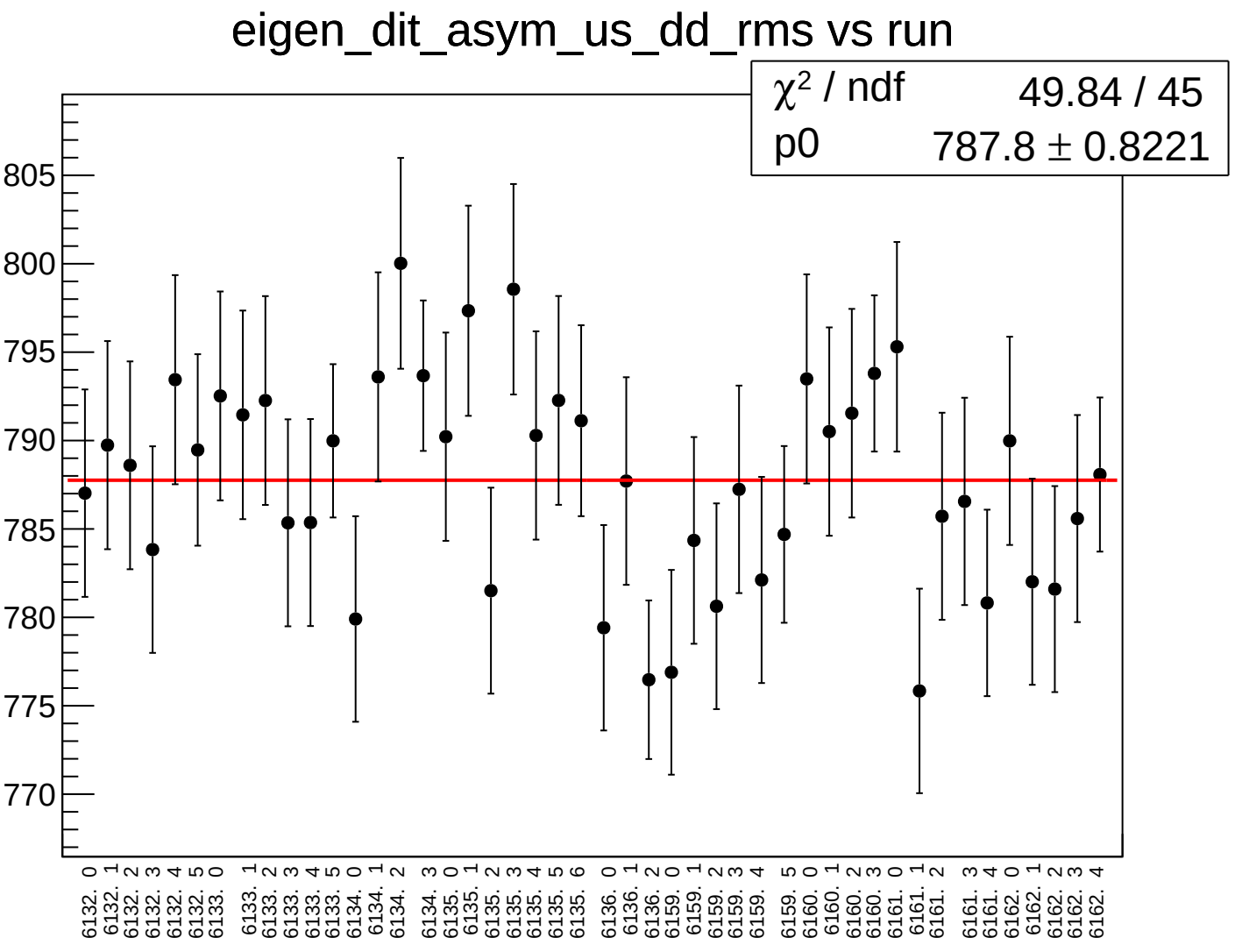
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

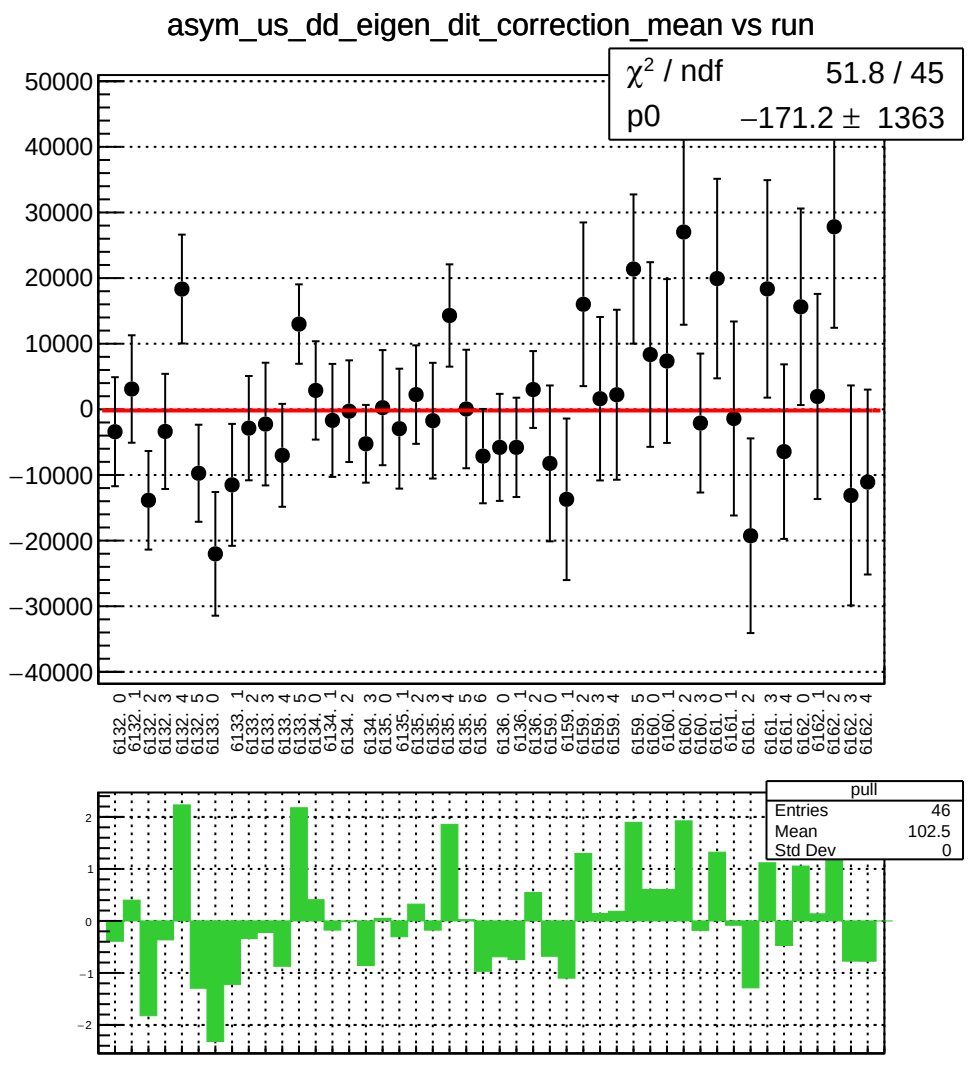

asym_us_dd_dit_correction_mean vs run
χ² / ndf 51.8 / 45
p0 −171.2 ± 1363
pull
Entries 46
Mean 102.5
Std Dev 0

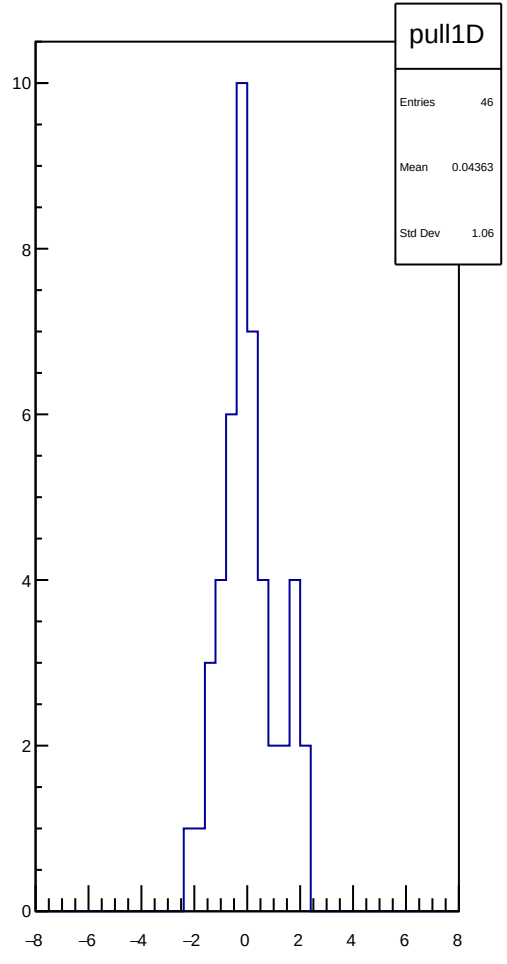

pull1D
Entries 46
Mean 0.04363
Std Dev 1.06

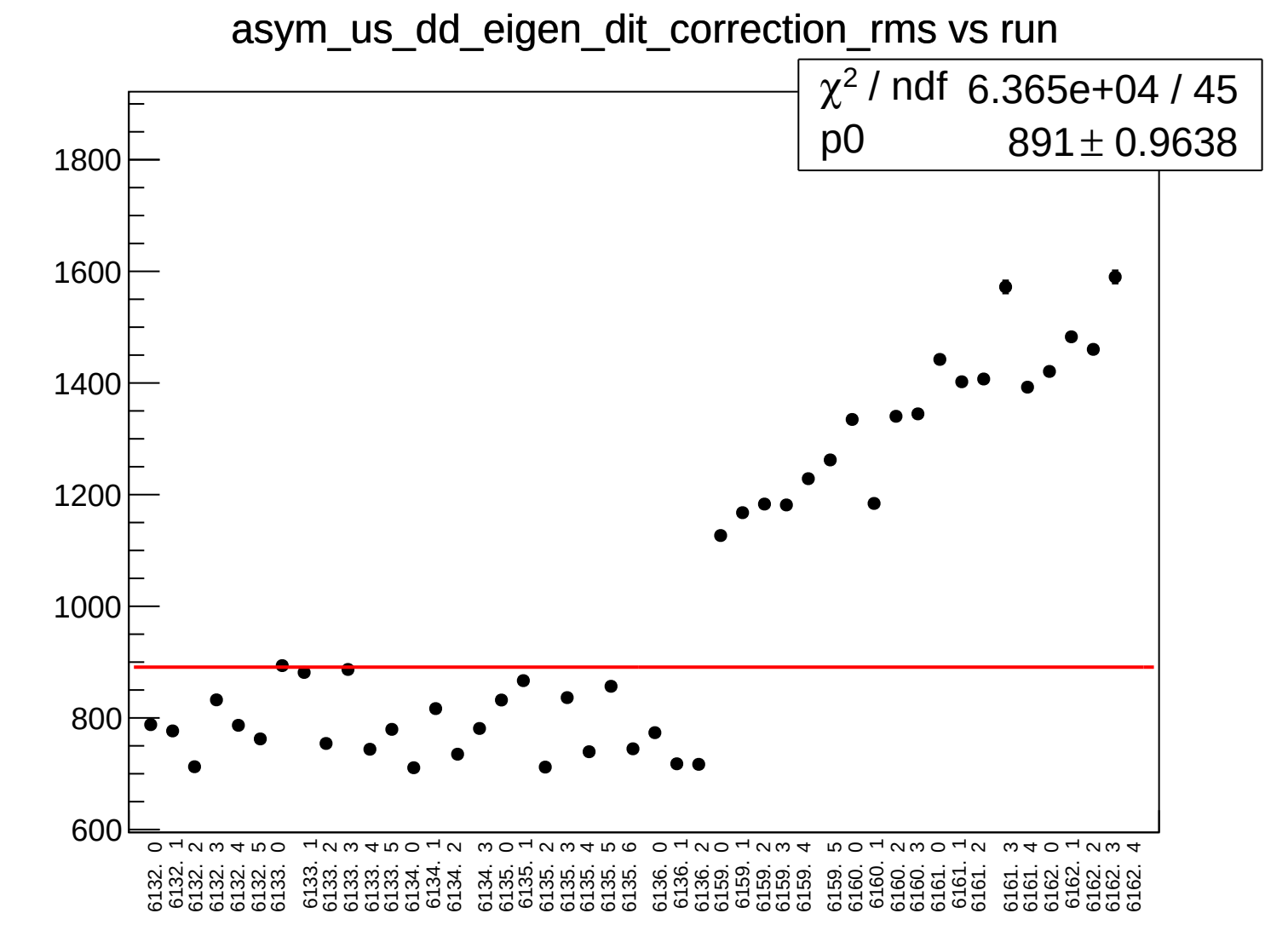

asym_us_dd_dit_correction_rms vs run
χ² / ndf 6.365e+04 / 45
p0 891 ± 0.9638
1800
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

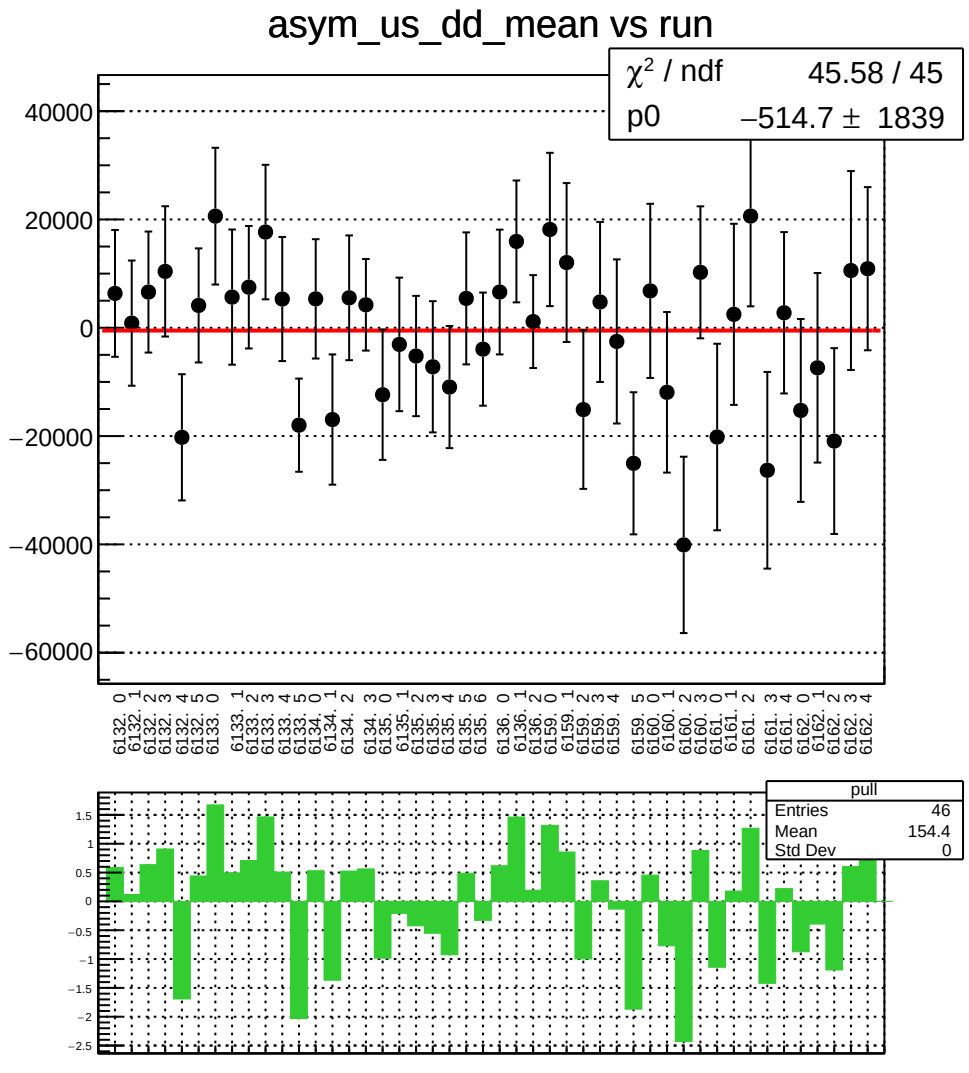

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 34.85 / 45
p0 −219.8 ± 1163
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −132.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.001657
Std Dev 0.8704
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

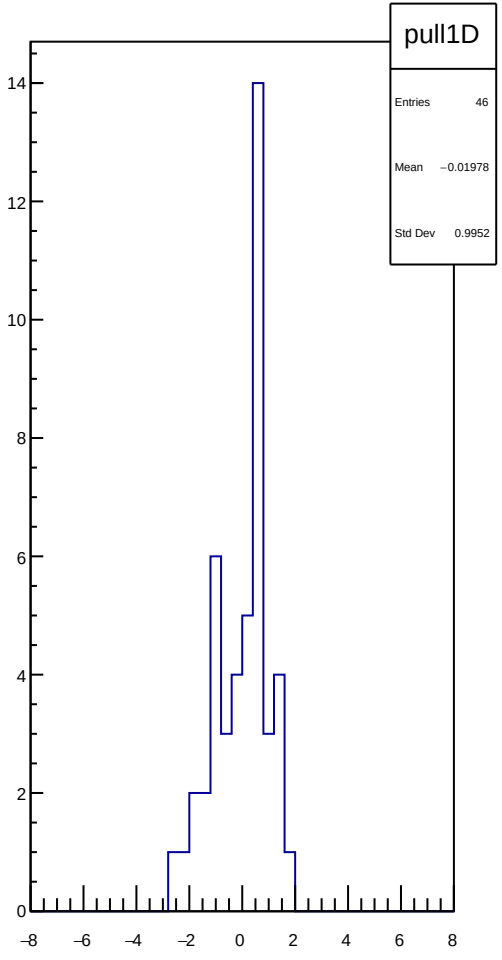

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 49.84 / 45
p0 787.8 ± 0.8221
805
800
795
790
785
780
775
770
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

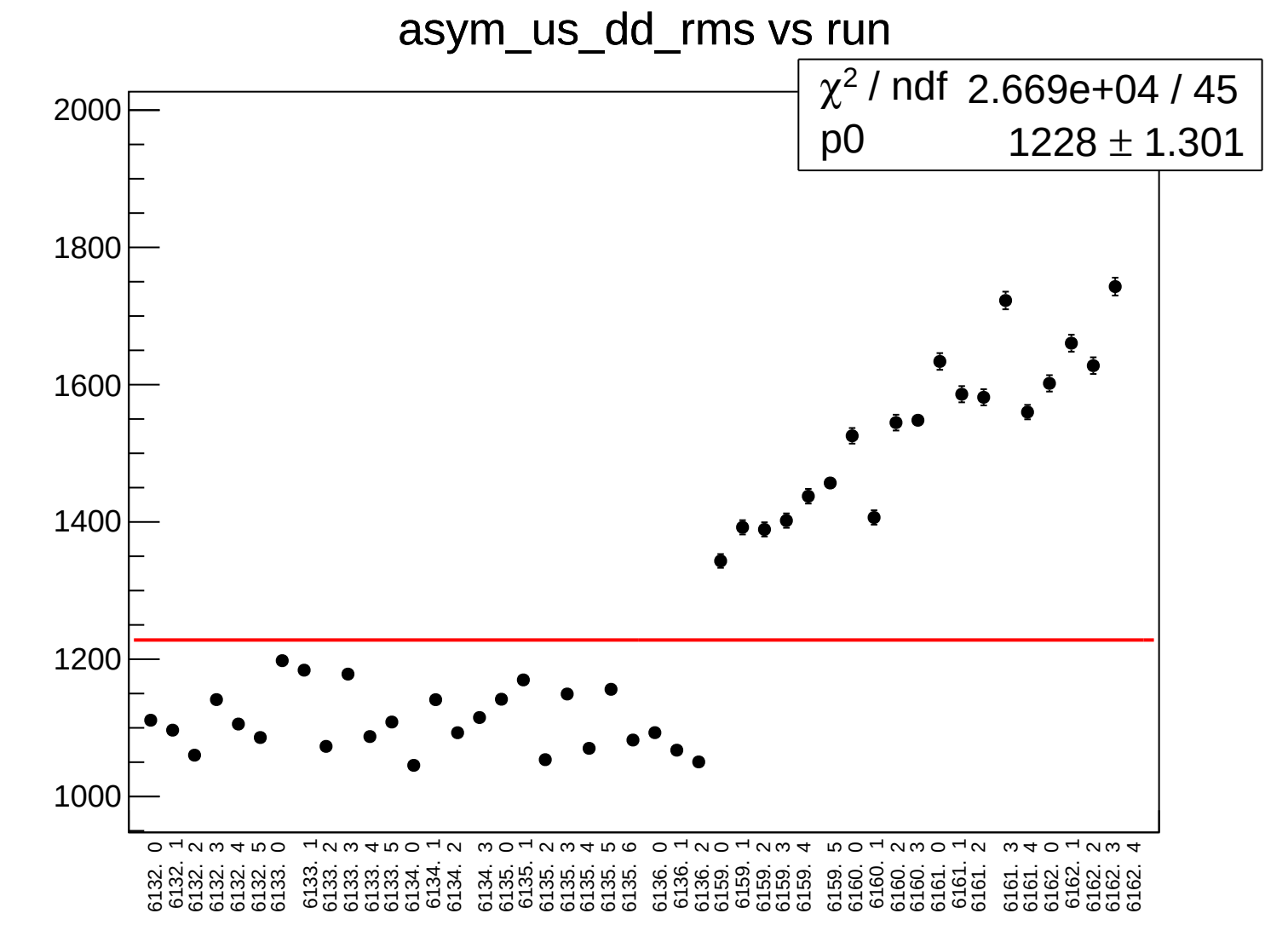

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 51.8 / 45
p0 −171.2 ± 1363
pull
Entries 46
Mean 102.5
Std Dev 0

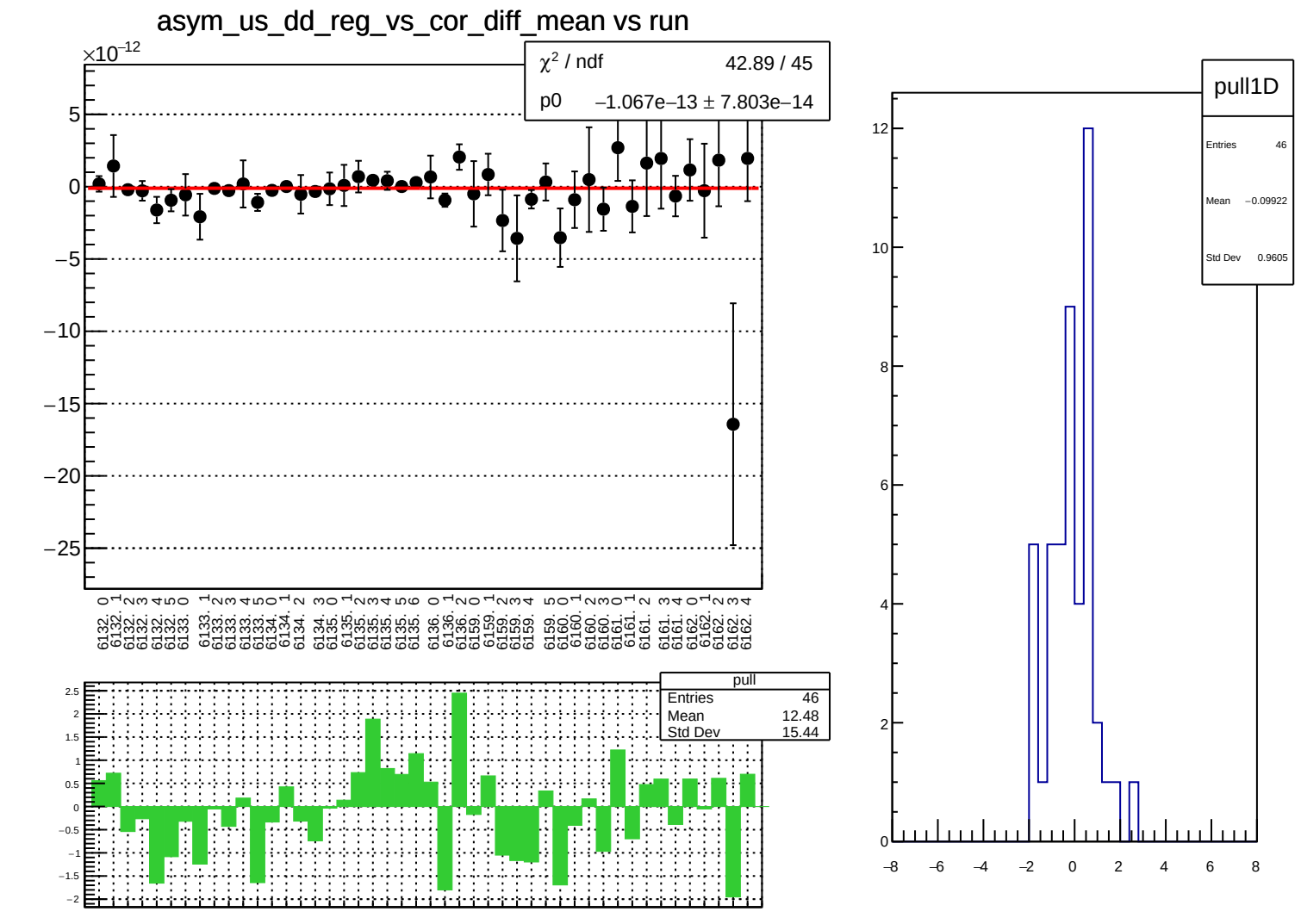

pull1D
Entries 46
Mean 0.04363
Std Dev 1.06

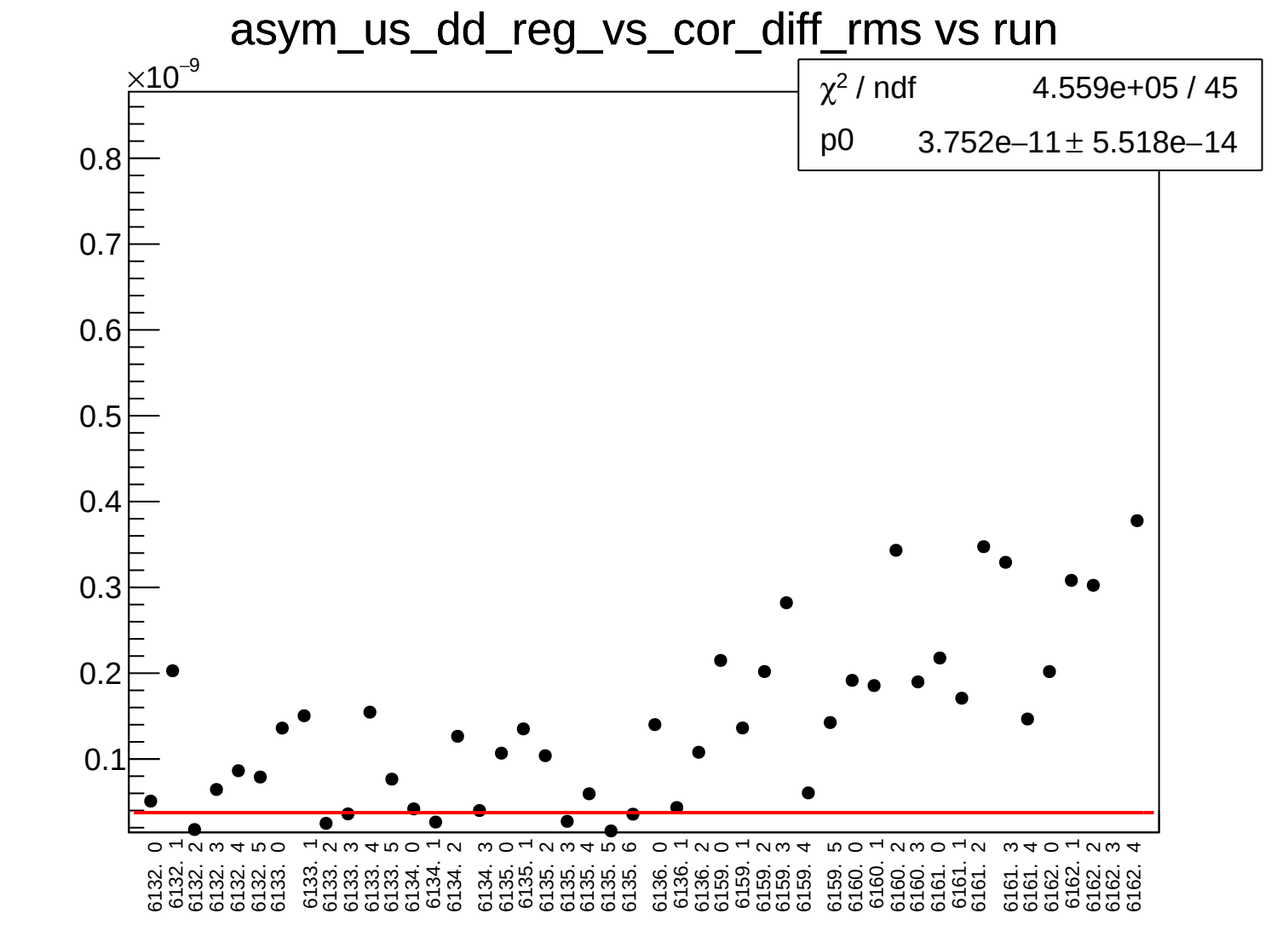

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 6.365e+04 / 45
p0 891 ± 0.9638
1800
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

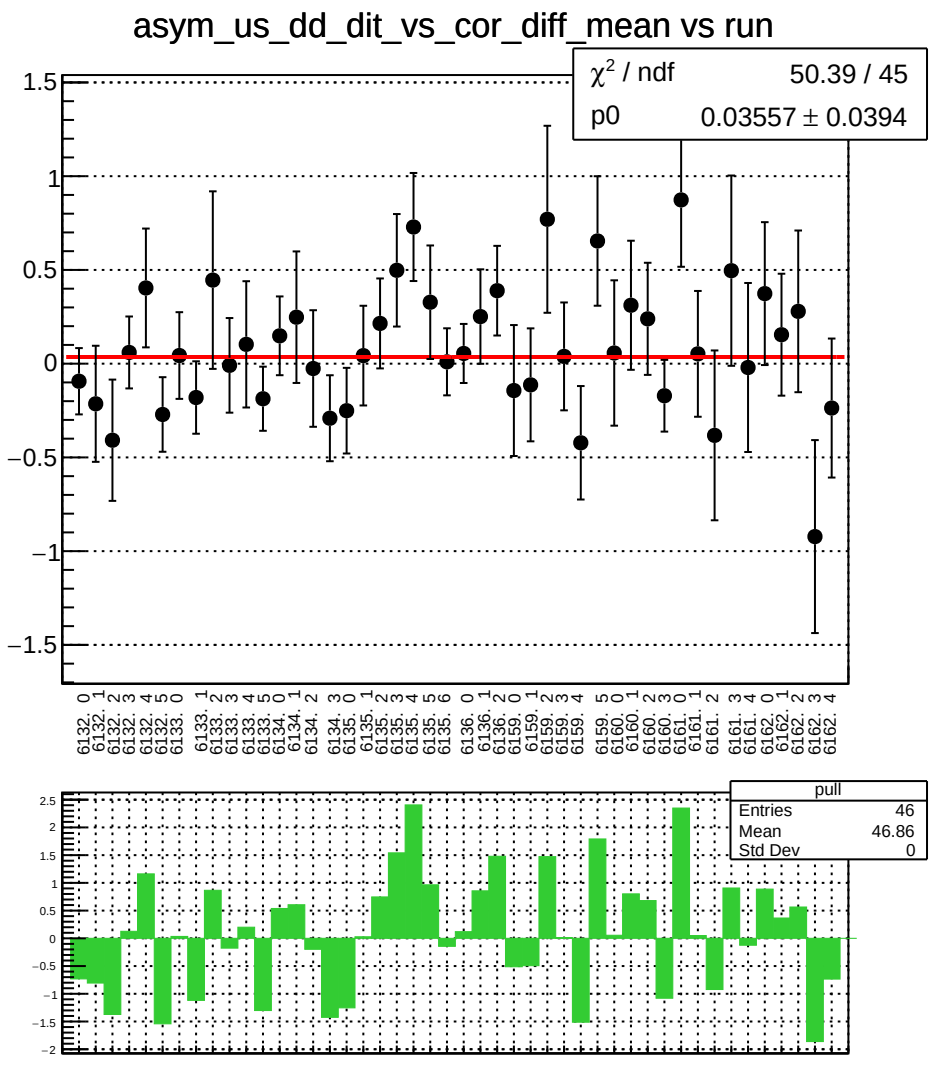

asym_us_dd_mean vs run
χ² / ndf 45.58 / 45
p0 −514.7 ± 1839
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 154.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

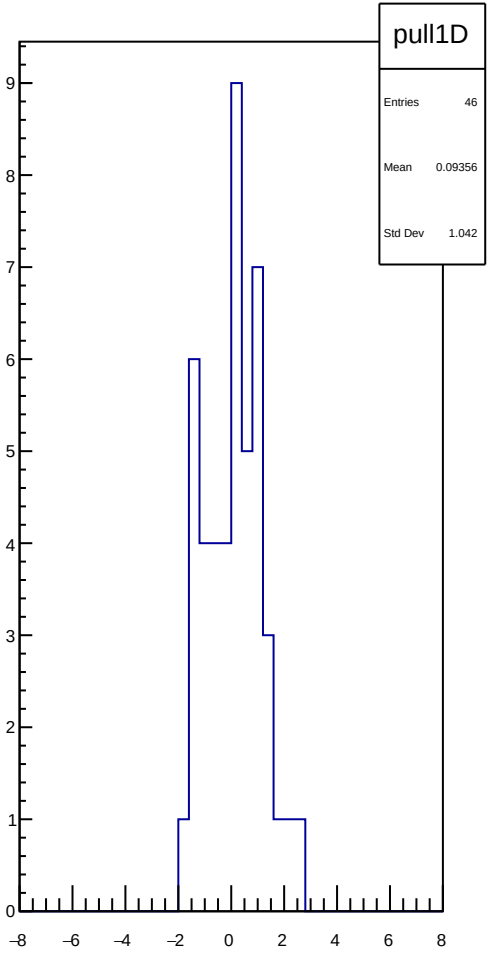

pull1D
Entries 46
Mean −0.01978
Std Dev 0.9952
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

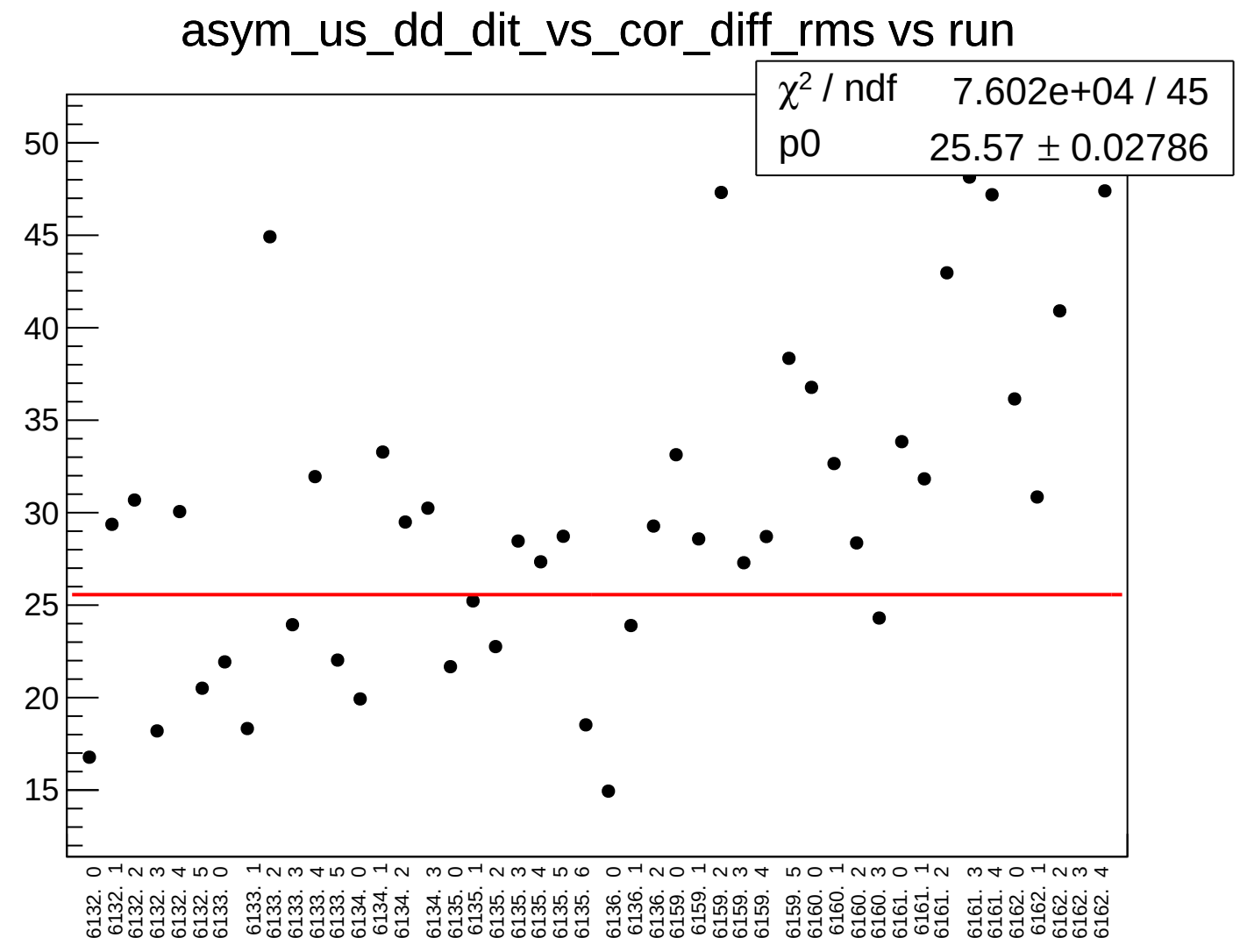

asym_us_dd_rms vs run
χ² / ndf 2.669e+04 / 45
p0 1228 ± 1.301
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

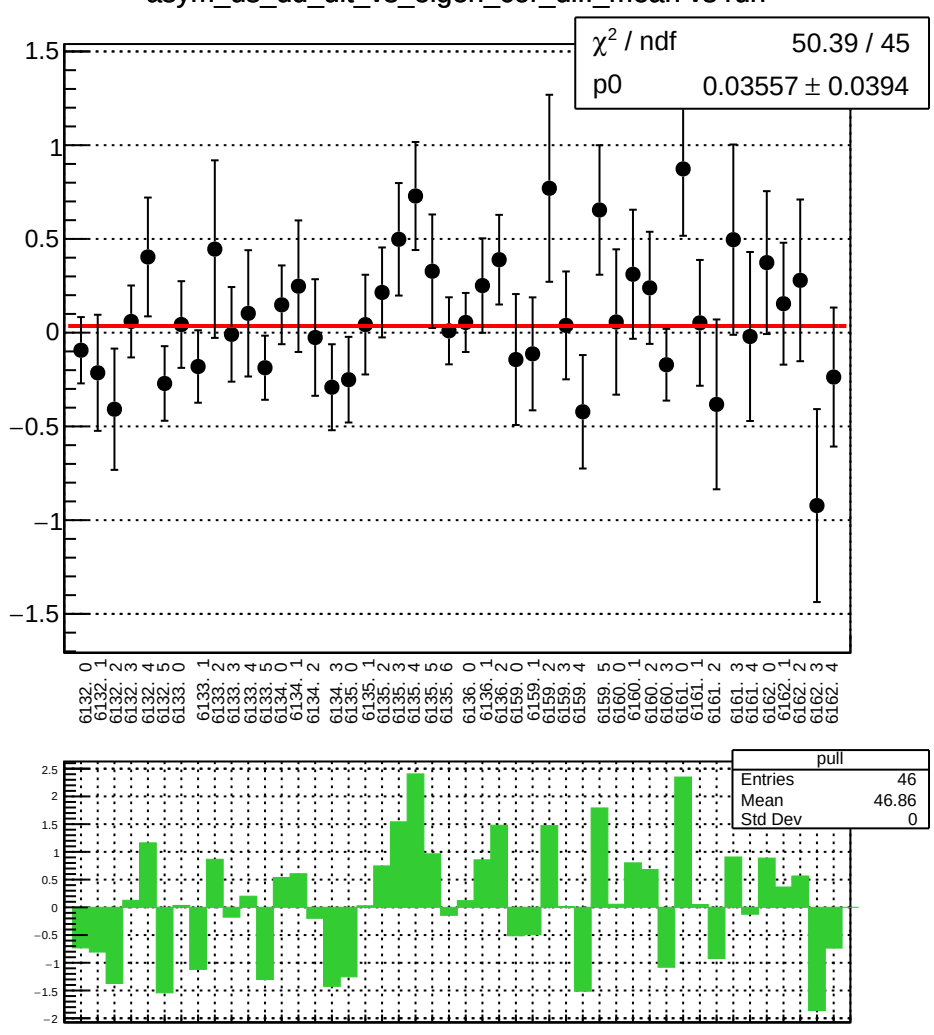

asym_us_dd_reg_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 42.89 / 45
p0 −1.067e−13 ± 7.803e−14
pull
Entries 46
Mean 12.48
Std Dev 15.44
pull1D
Entries 46
Mean −0.09922
Std Dev 0.9605

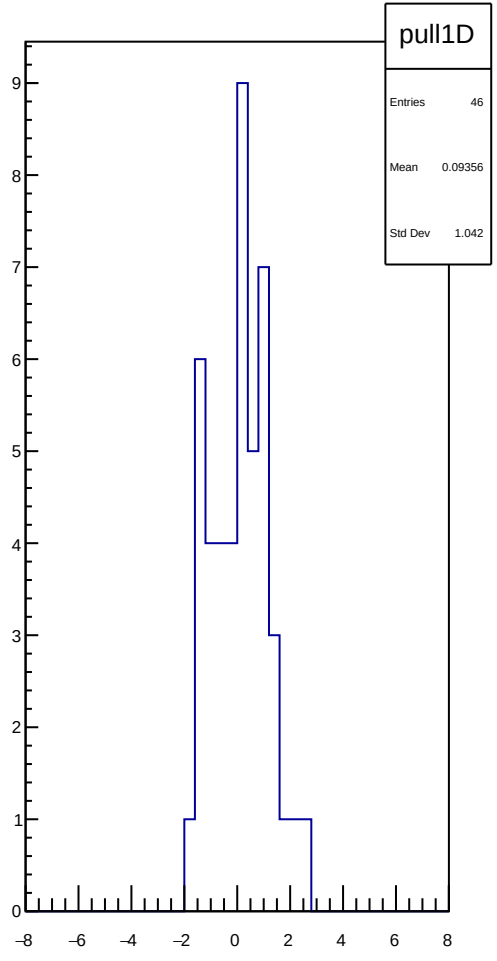

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.559e+05 / 45
p0 3.752e−11 ± 5.518e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

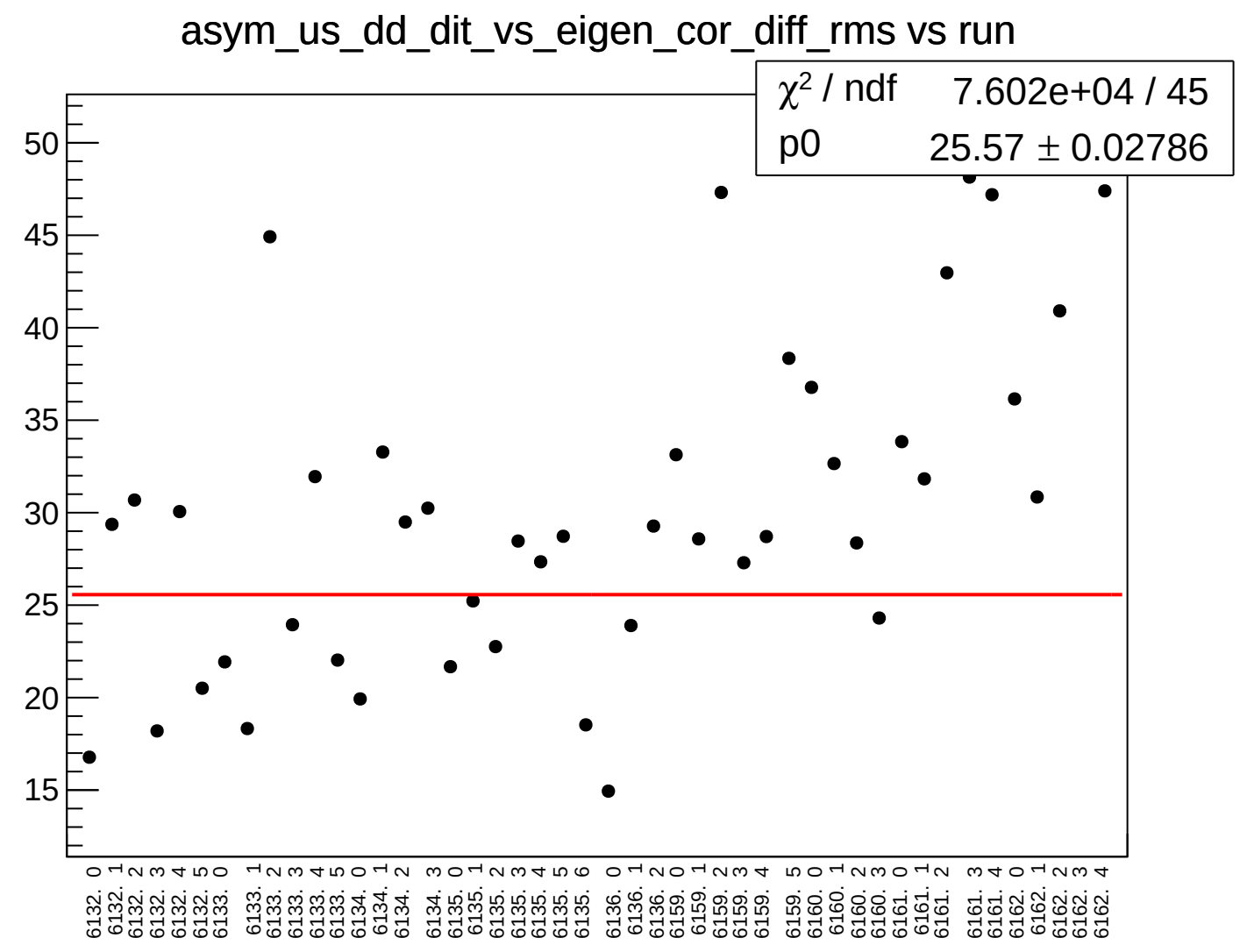

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 50.39 / 45
p0 0.03557 ± 0.0394
pull
Entries 46
Mean 46.86
Std Dev 0


pull1D
Entries 46
Mean 0.09356
Std Dev 1.042


asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.602e+04 / 45
p0 25.57 ± 0.02786
50
45
40
35
30
25
20
15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.39 / 45
p0 0.03557 ± 0.0394
pull
Entries 46
Mean 46.86
Std Dev 0


pull1D
Entries 46
Mean 0.09356
Std Dev 1.042


asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.602e+04 / 45
p0 25.57 ± 0.02786
50
45
40
35
30
25
20
15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
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6161. 4
6162. 0
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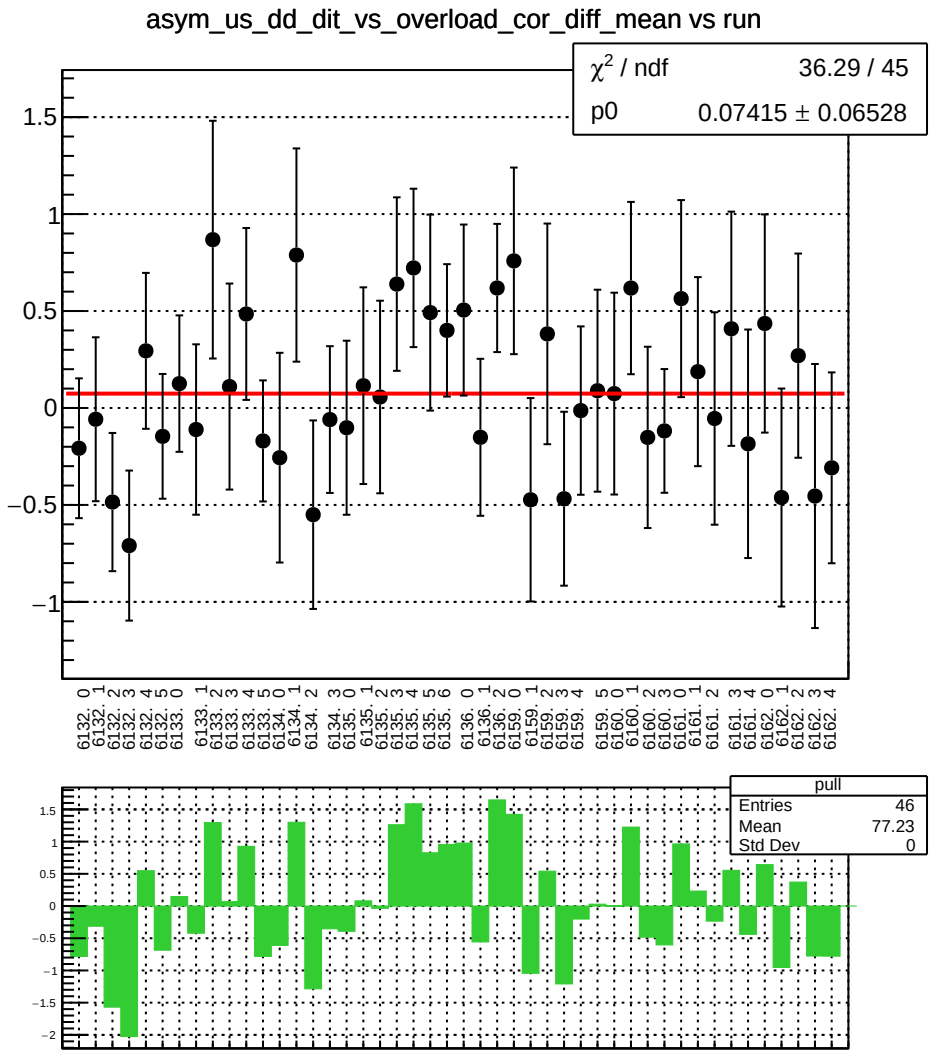
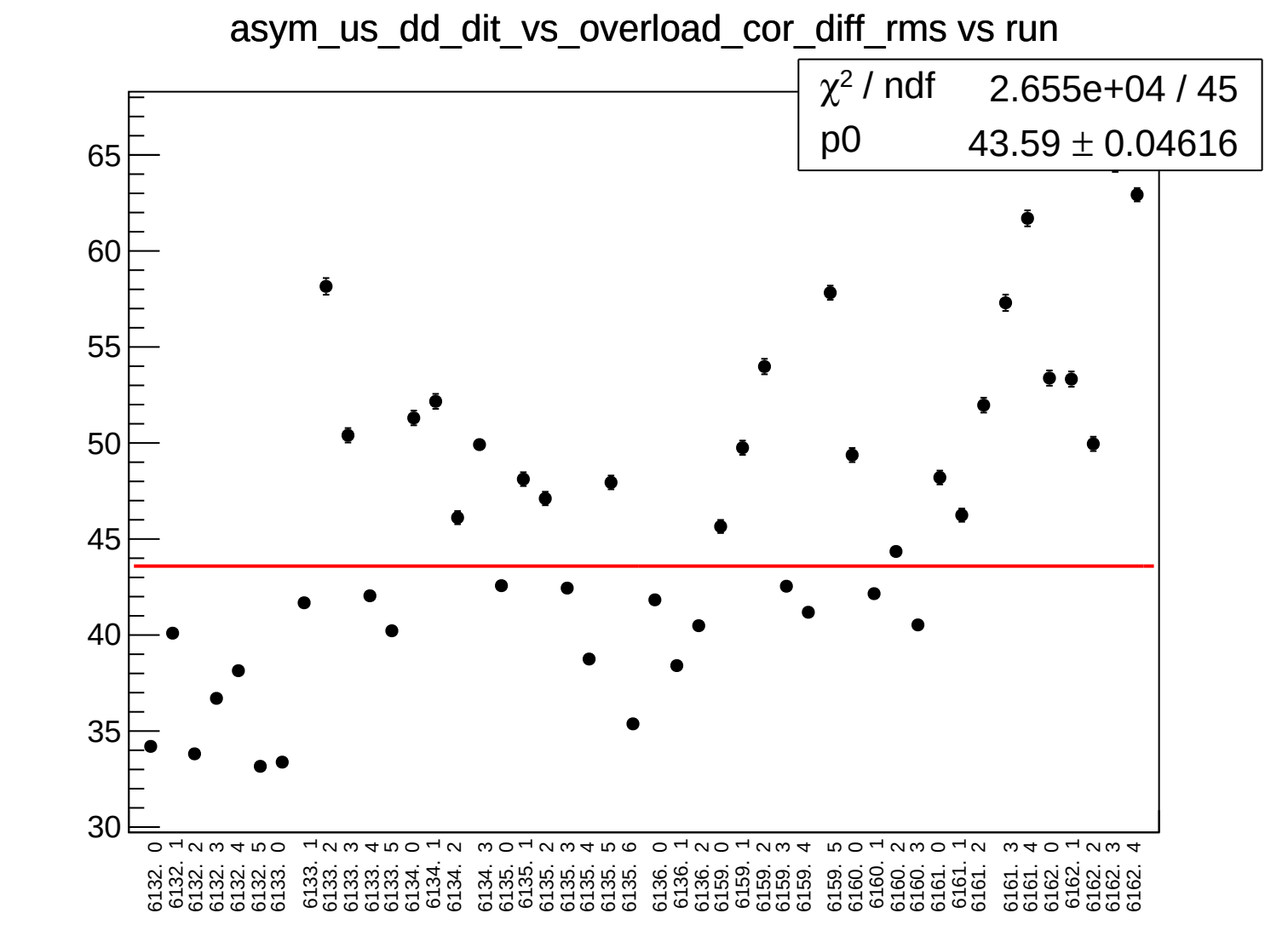
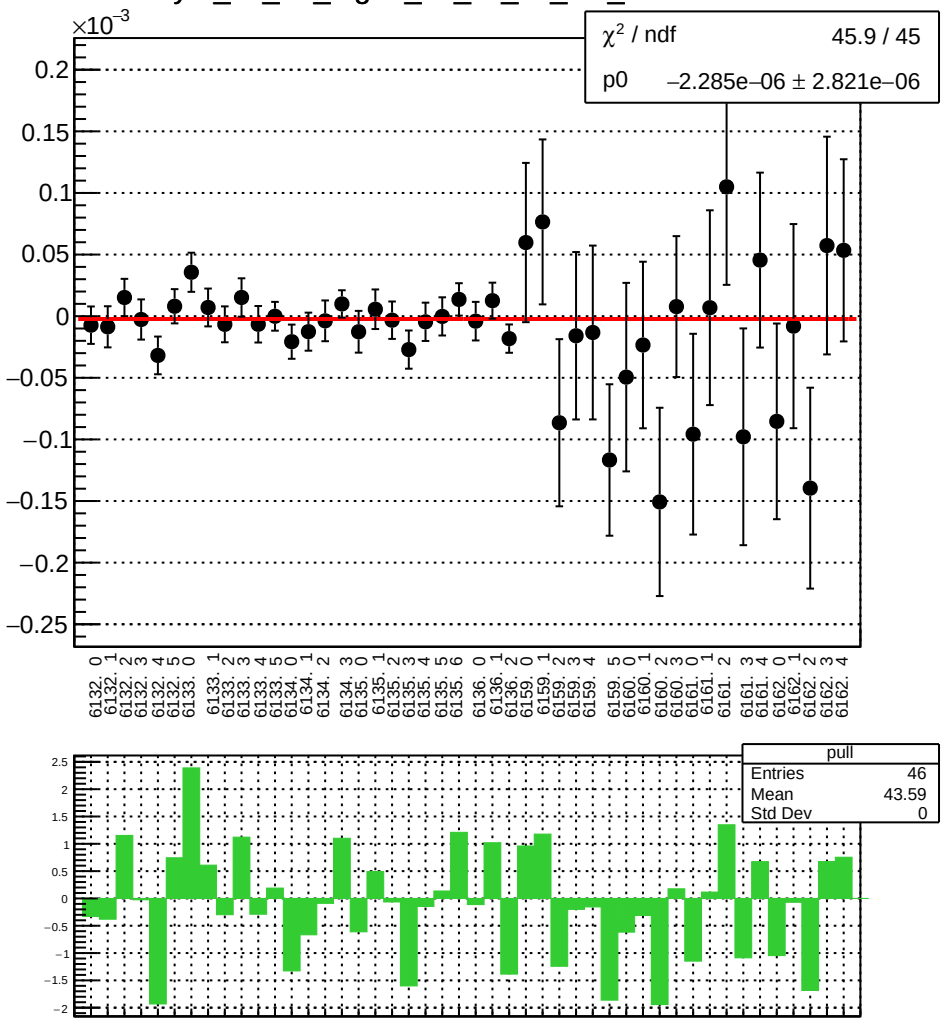
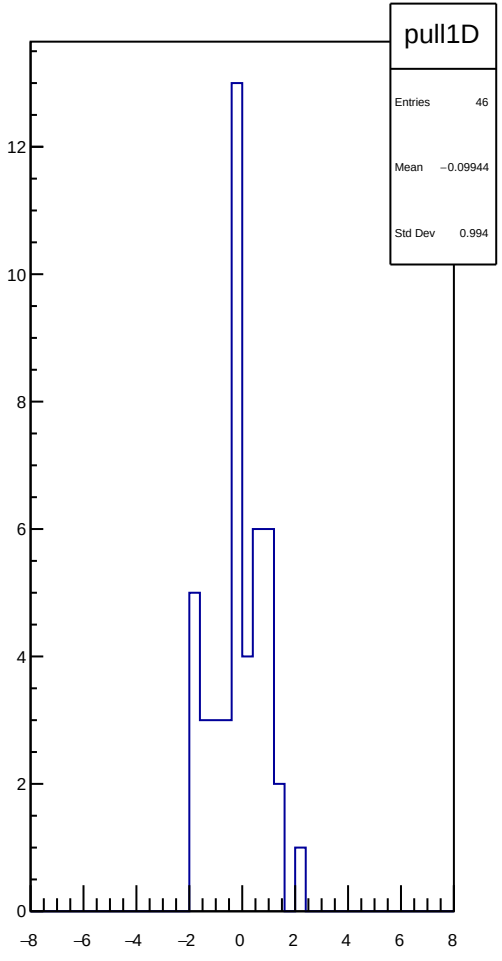
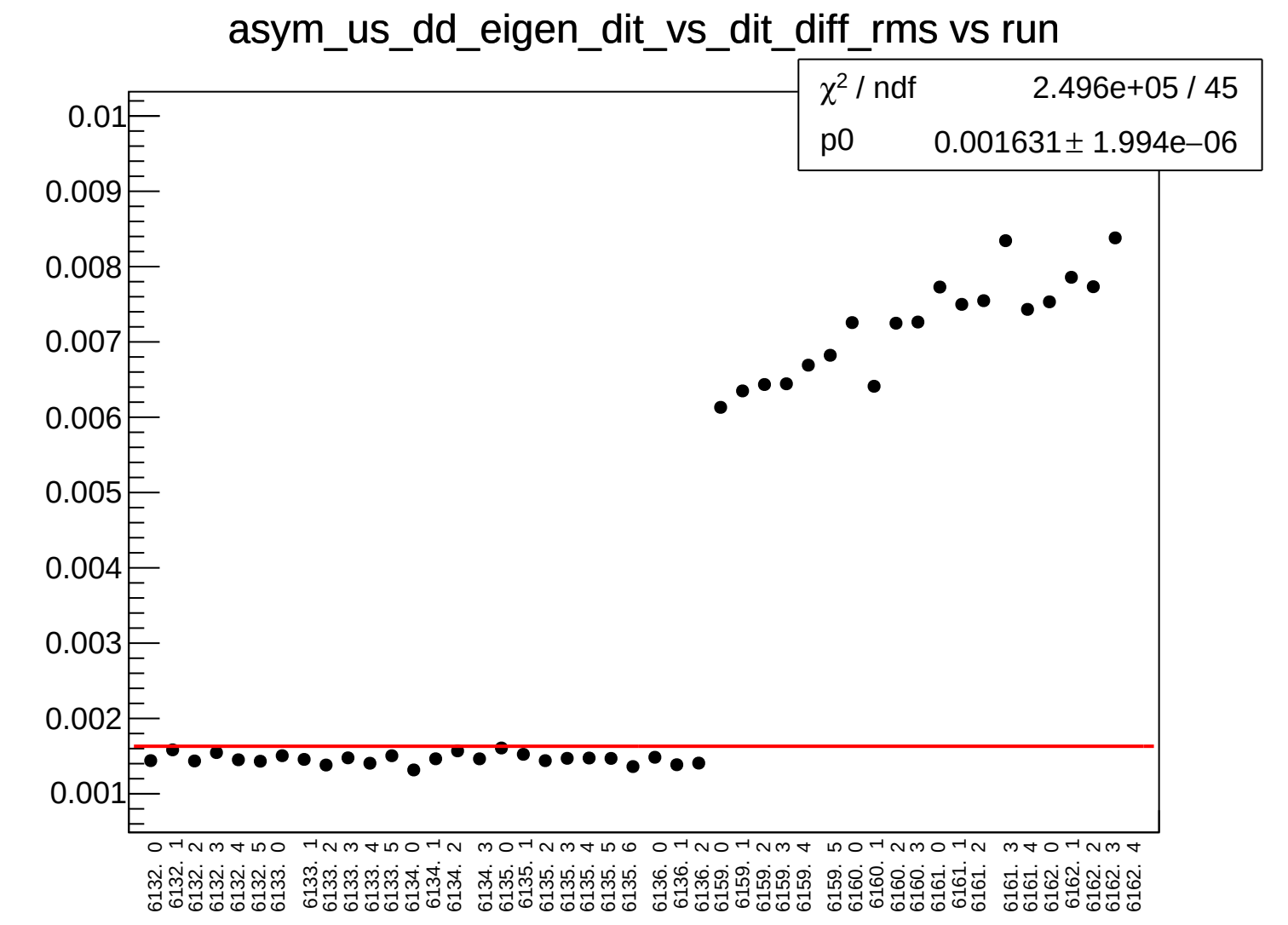
6162. 2
6162. 3
6162. 4

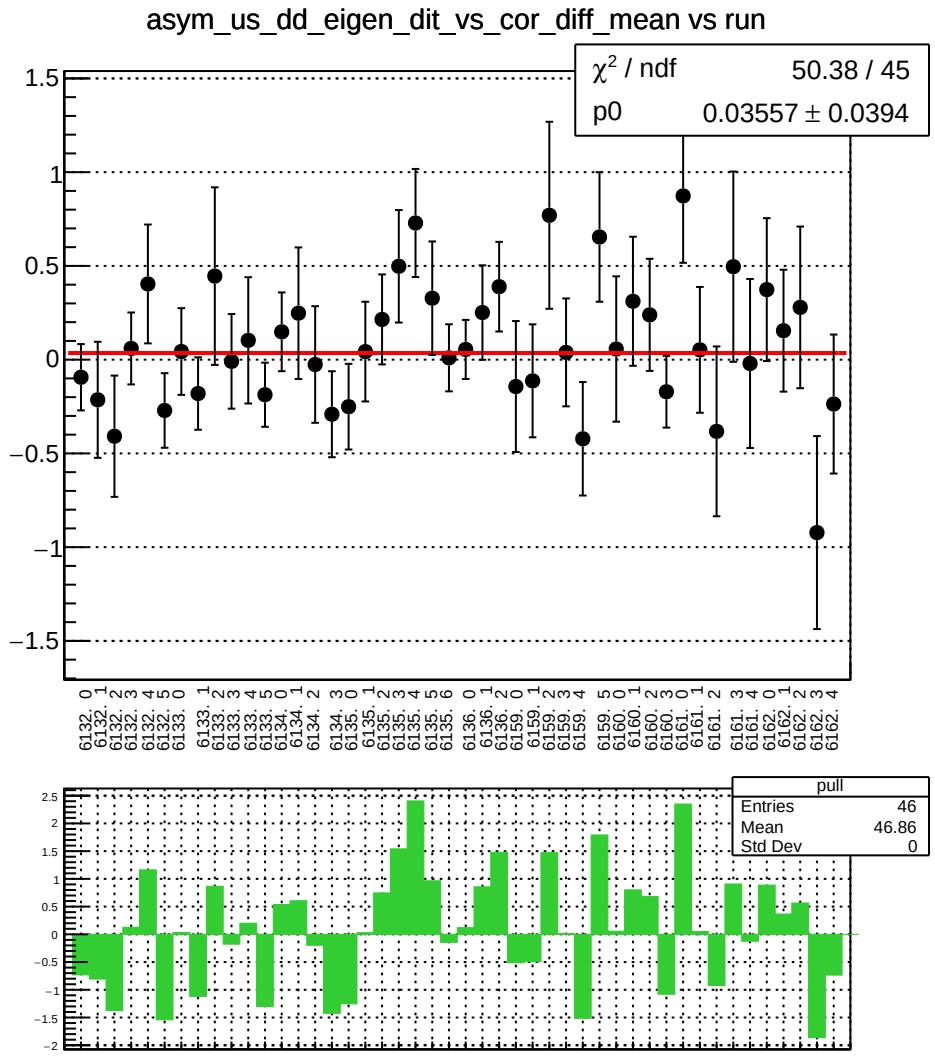

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 36.29 / 45
p0 0.07415 ± 0.06528
pull
Entries 46
Mean 77.23
Std Dev 0
pull1D
Entries 46
Mean 0.02328
Std Dev 0.888

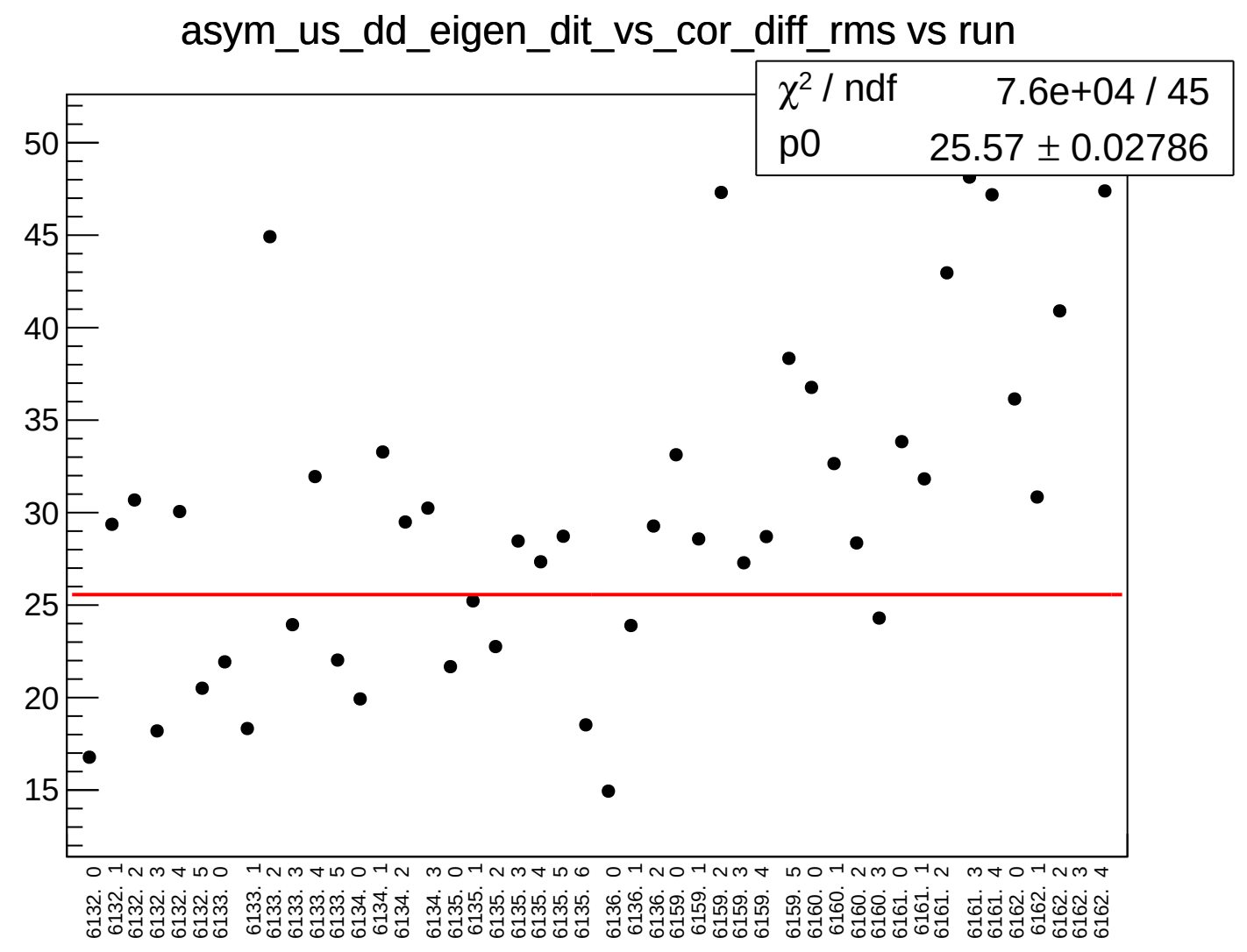

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.655e+04 / 45
p0 43.59 ± 0.04616
65
60
55
50
45
40
35
30
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

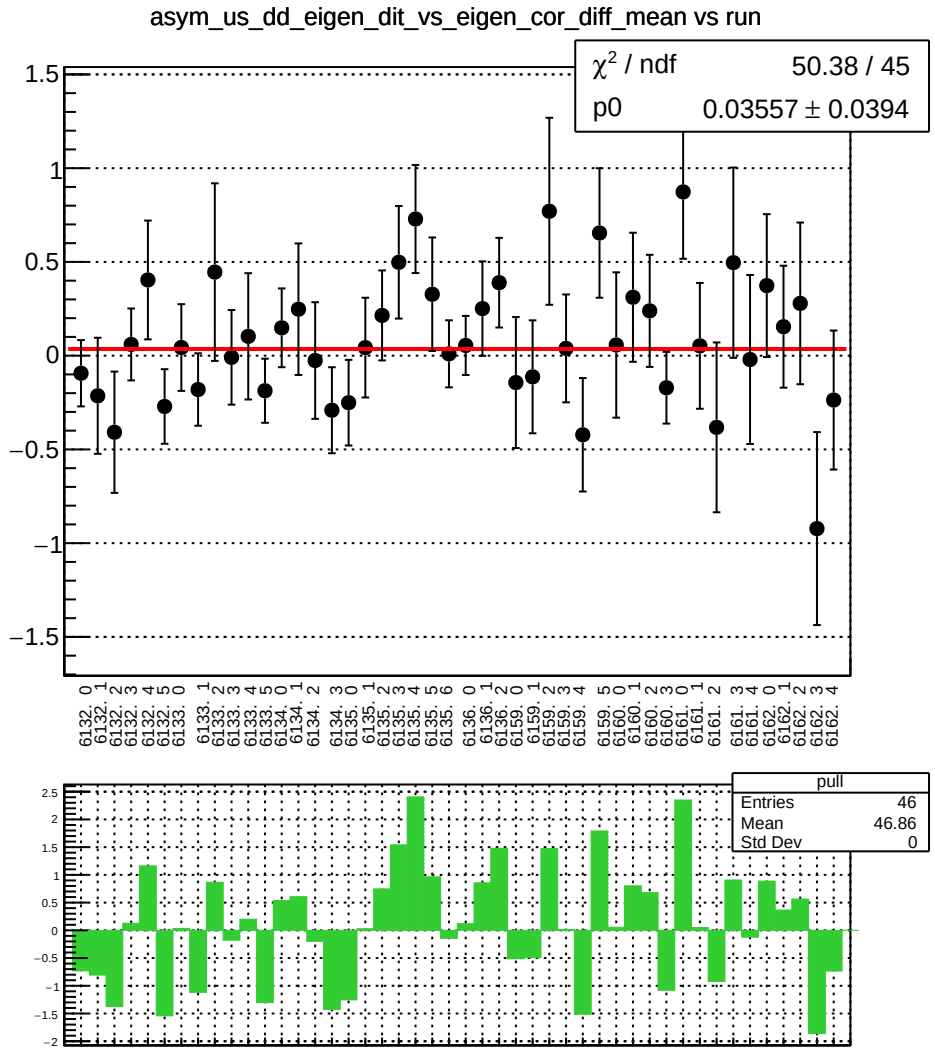

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 45.9 / 45
p0 −2.285e−06 ± 2.821e−06
pull
Entries 46
Mean 43.59
Std Dev 0

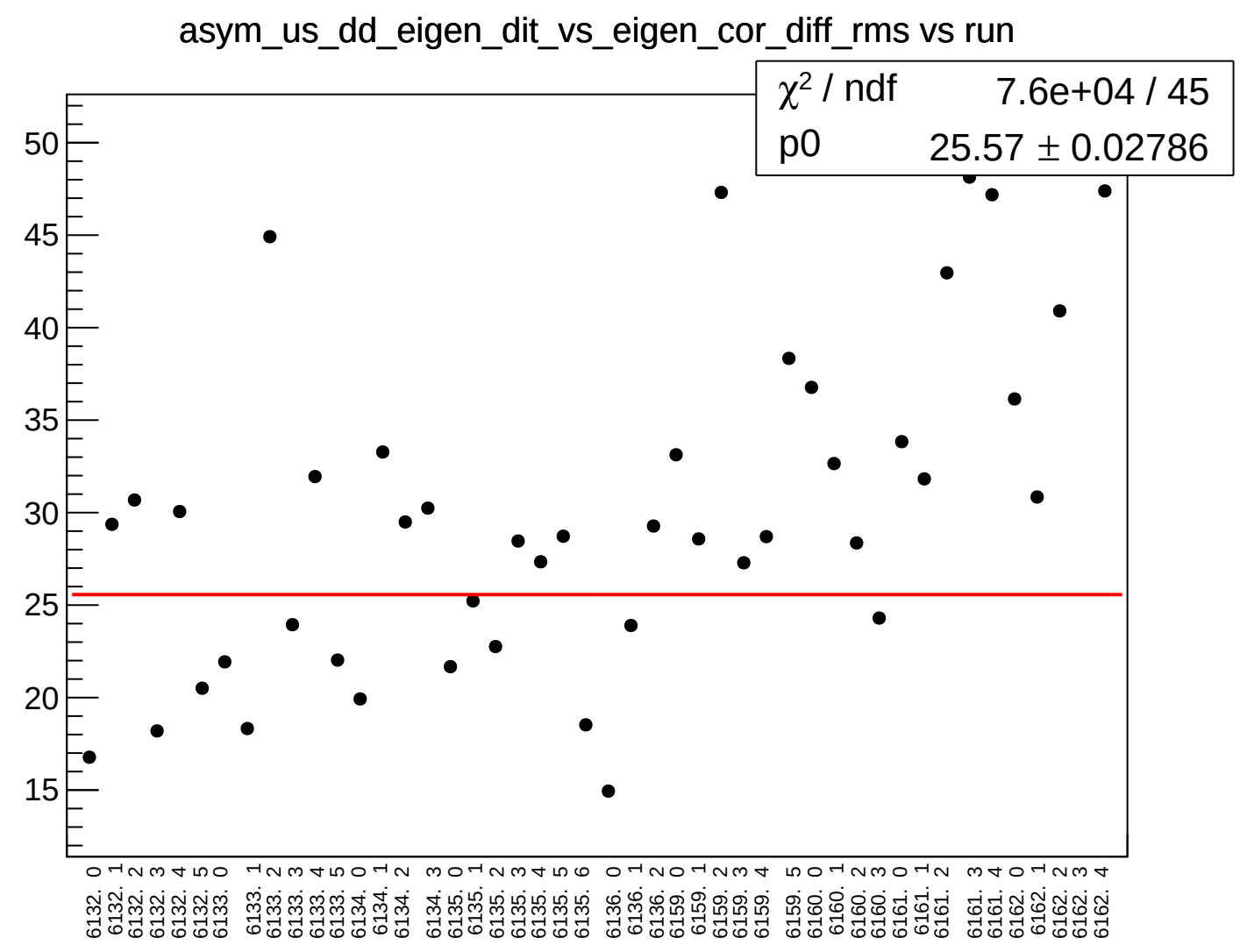

pull1D
Entries 46
Mean −0.09944
Std Dev 0.994

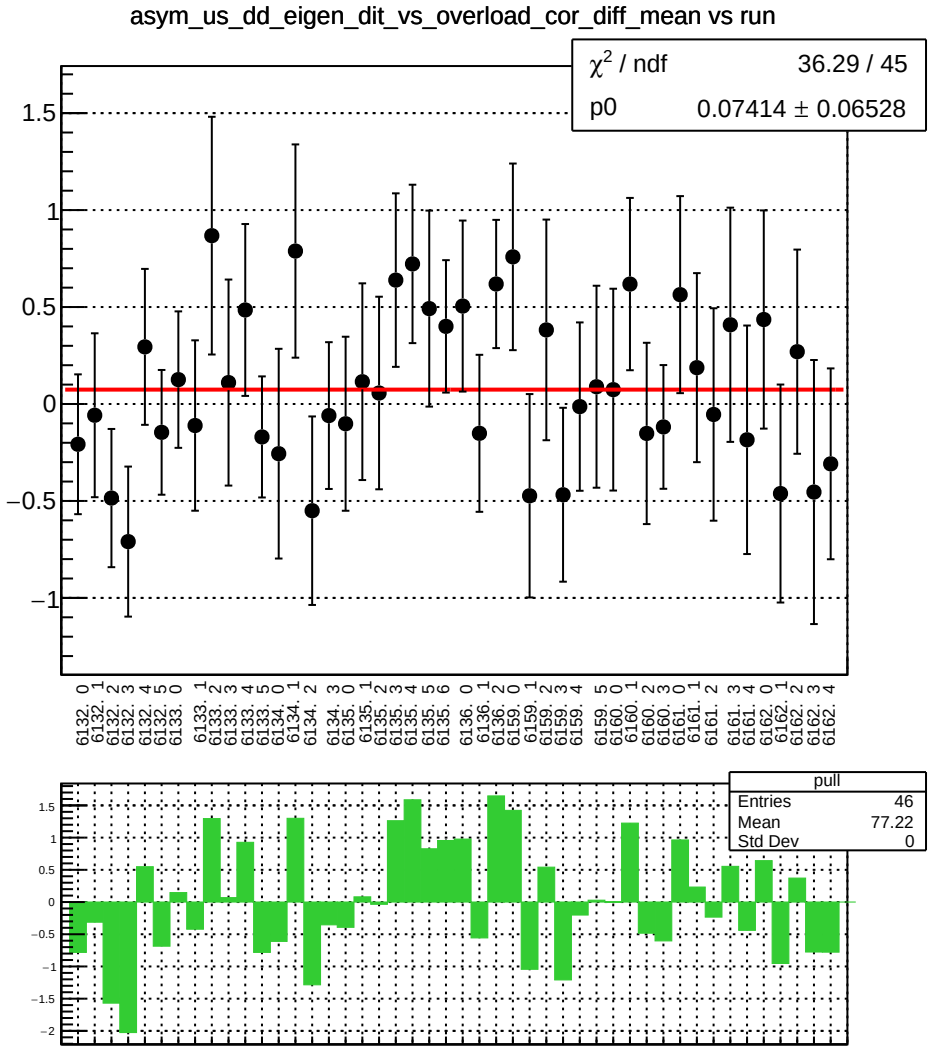

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.496e+05 / 45
p0 0.001631 ± 1.994e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

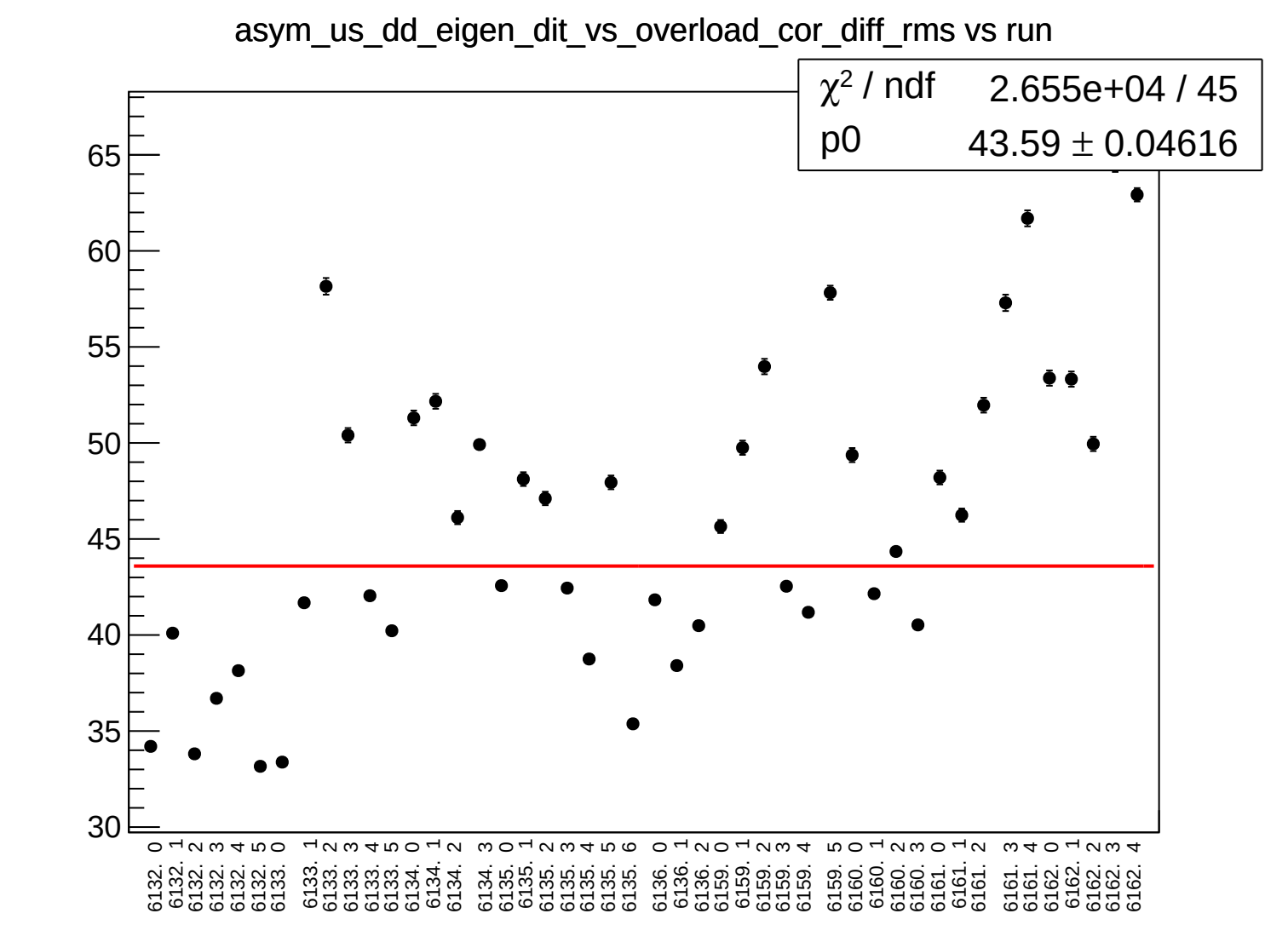

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 50.38 / 45
p0 0.03557 ± 0.0394
pull
Entries 46
Mean 46.86
Std Dev 0
pull1D
Entries 46
Mean 0.09355
Std Dev 1.042

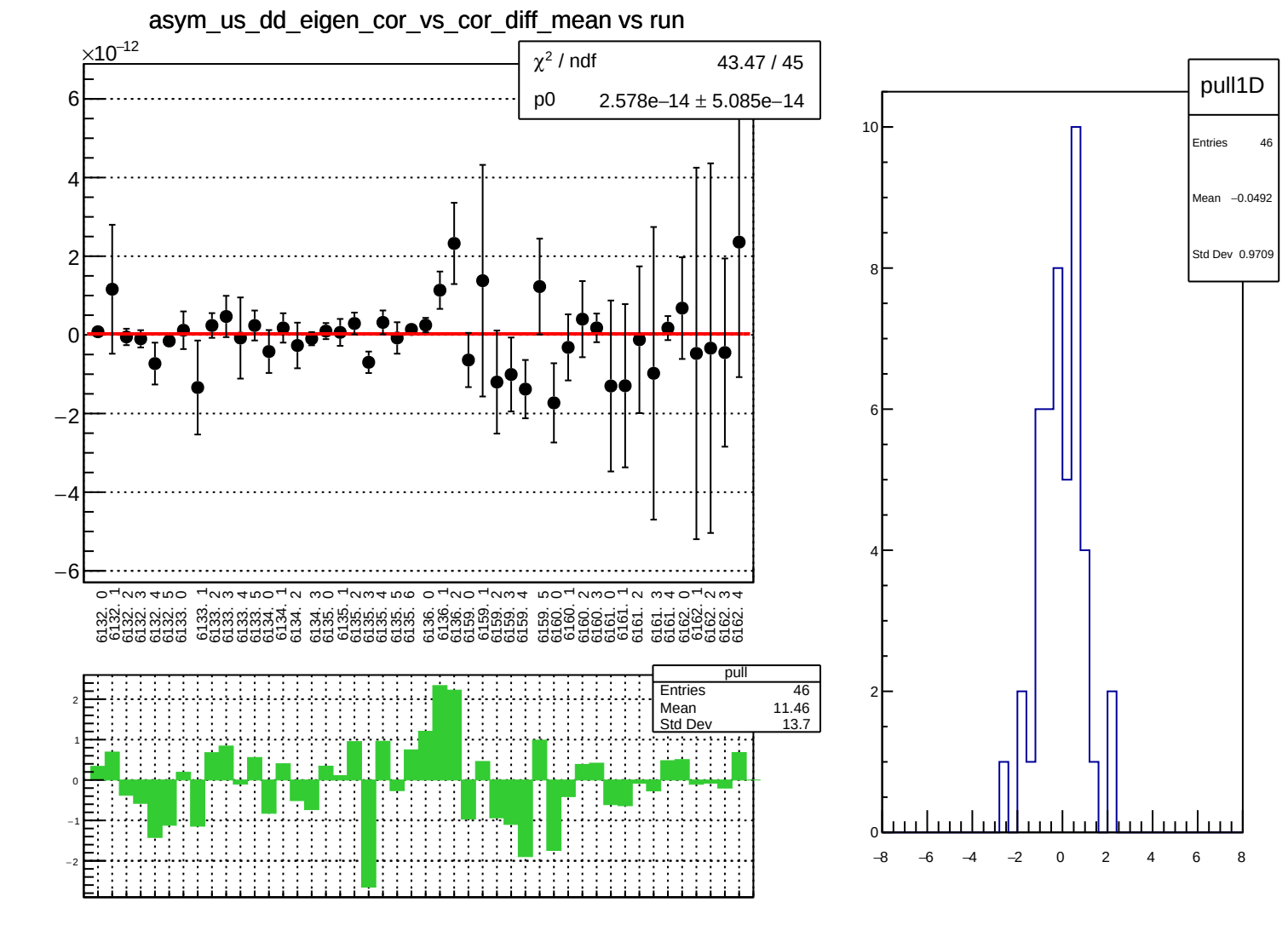

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.6e+04 / 45
p0 25.57 ± 0.02786
50
45
40
35
30
25
20
15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

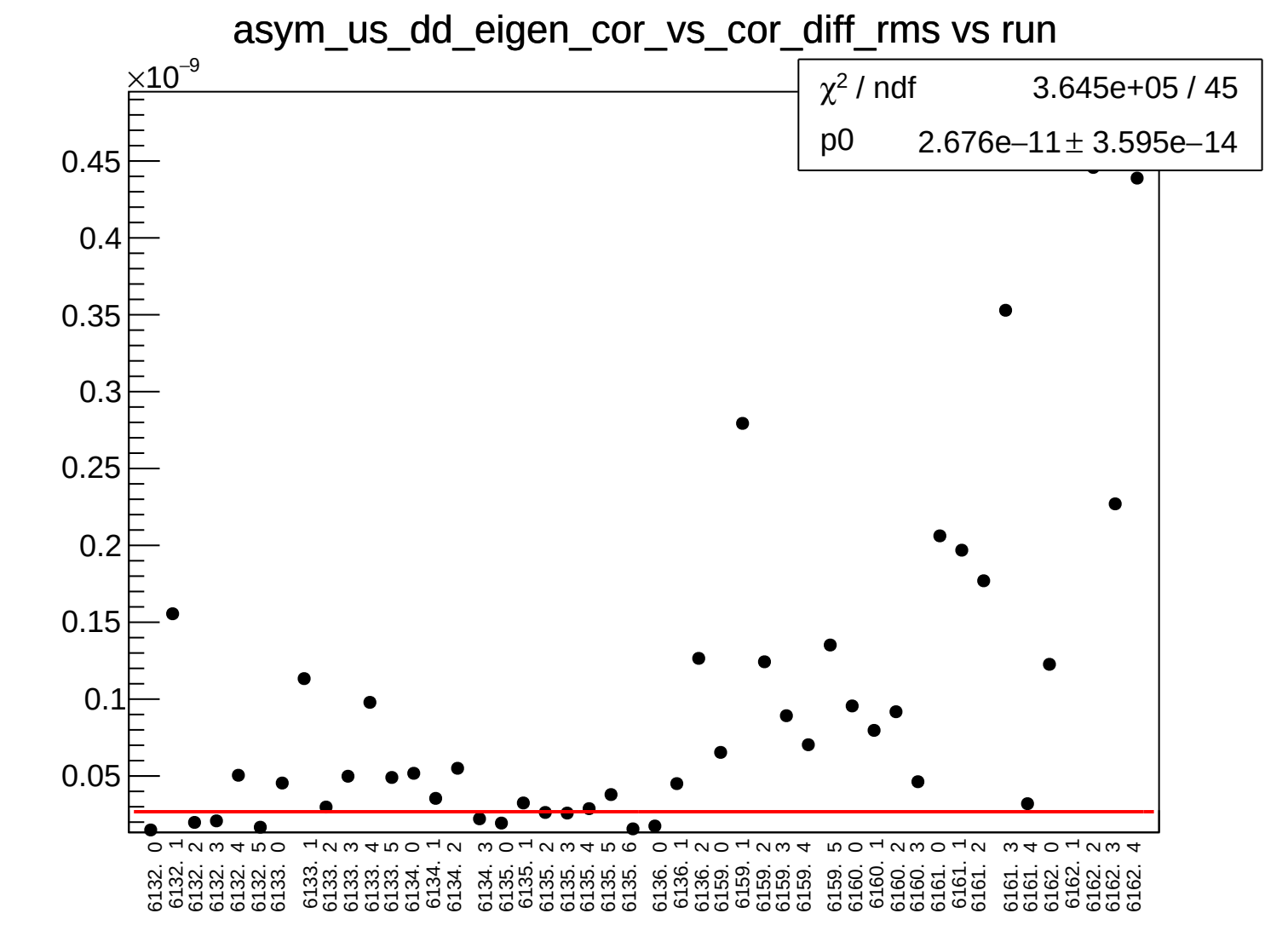

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.38 / 45
p0 0.03557 ± 0.0394
pull
Entries 46
Mean 46.86
Std Dev 0
pull1D
Entries 46
Mean 0.09355
Std Dev 1.042

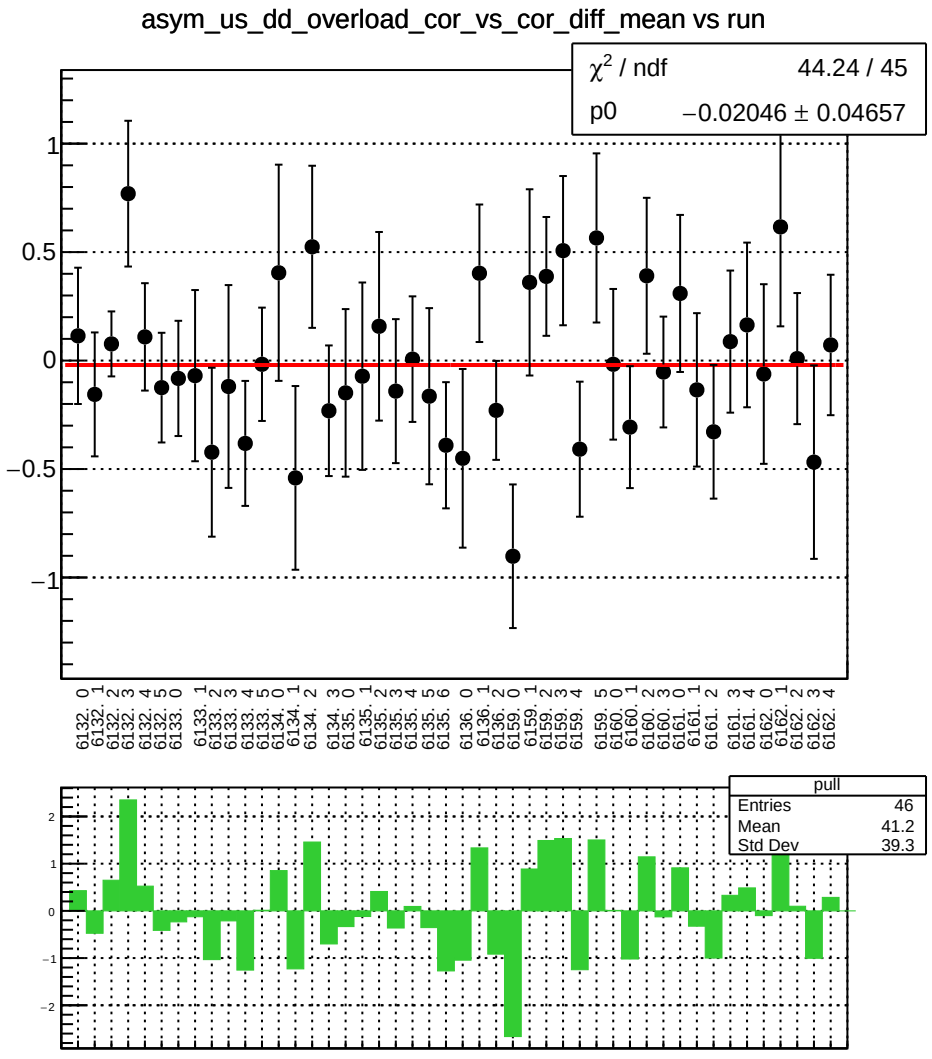

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.6e+04 / 45
p0 25.57 ± 0.02786
50
45
40
35
30
25
20
15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

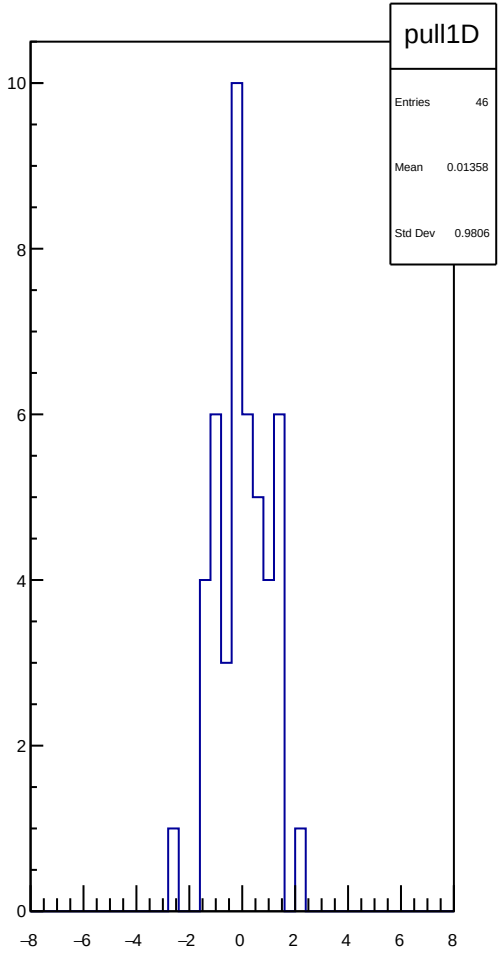

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 36.29 / 45
p0 0.07414 ± 0.06528
pull
Entries 46
Mean 77.22
Std Dev 0
pull1D
Entries 46
Mean 0.02328
Std Dev 0.888

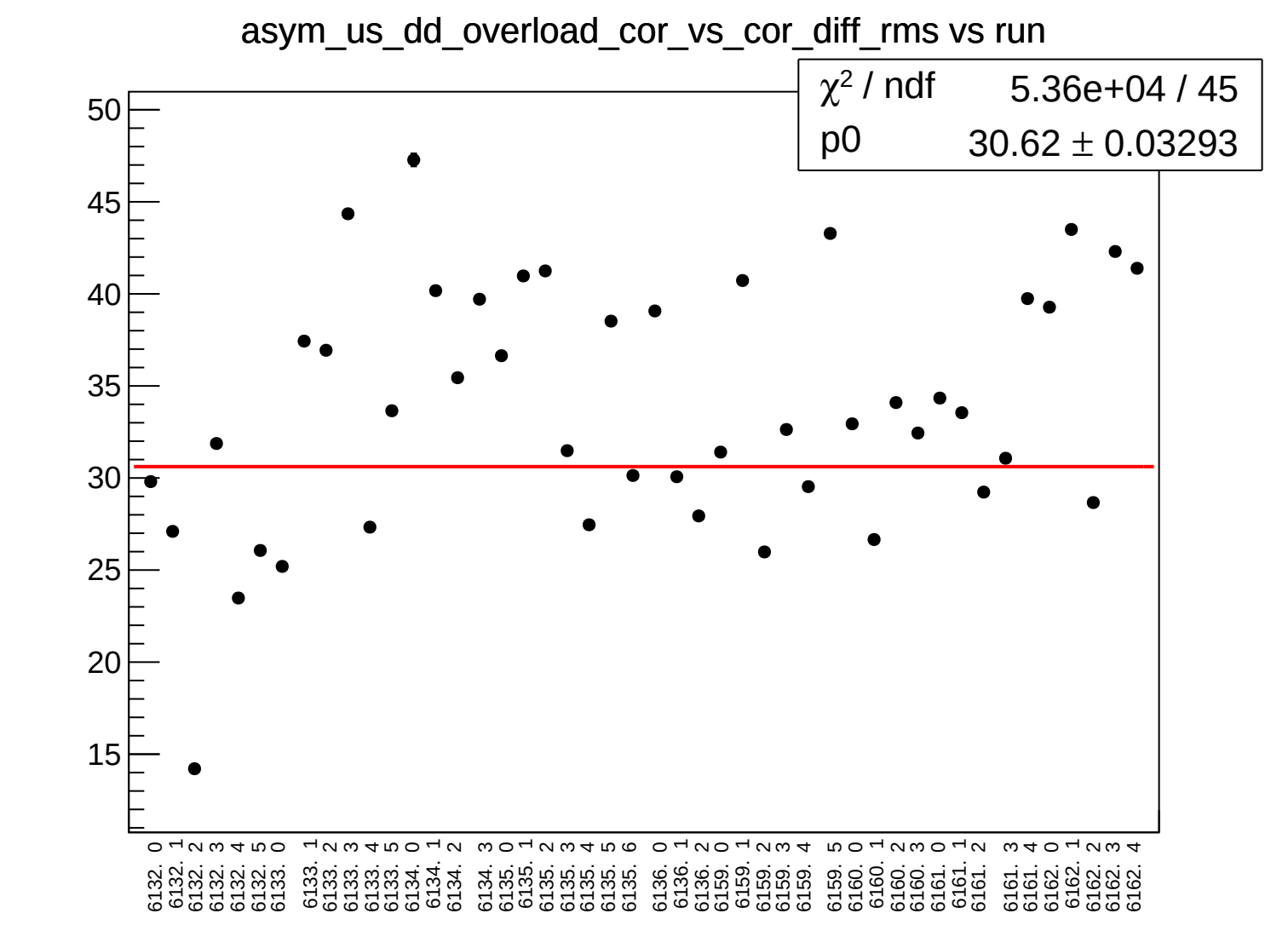

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.655e+04 / 45
p0 43.59 ± 0.04616
65
60
55
50
45
40
35
30
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

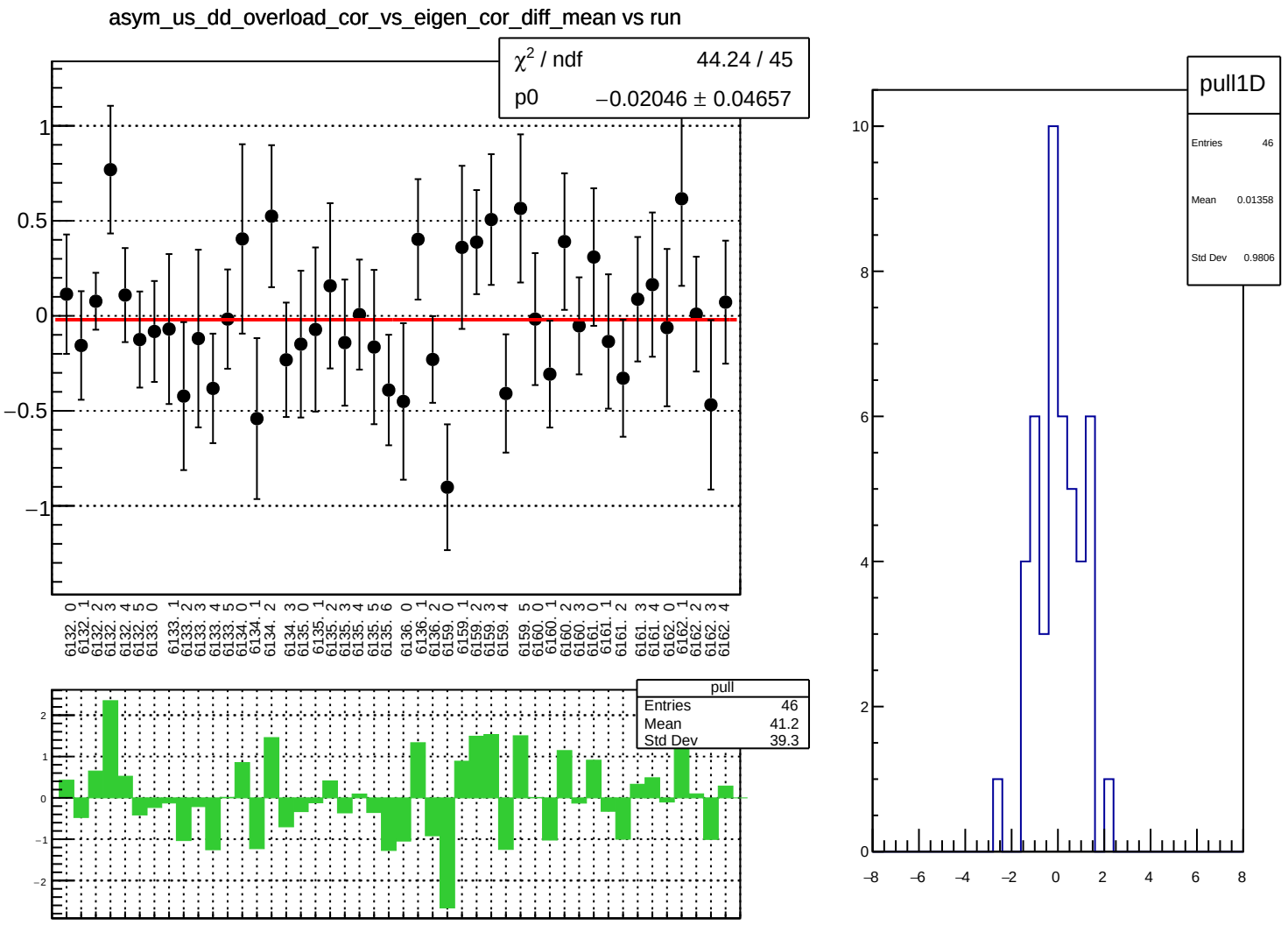

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 43.47 / 45
p0 2.578e−14 ± 5.085e−14
6
4
2
0
−2
−4
−6
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 11.46
Std Dev 13.7
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.0492
Std Dev 0.9709
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

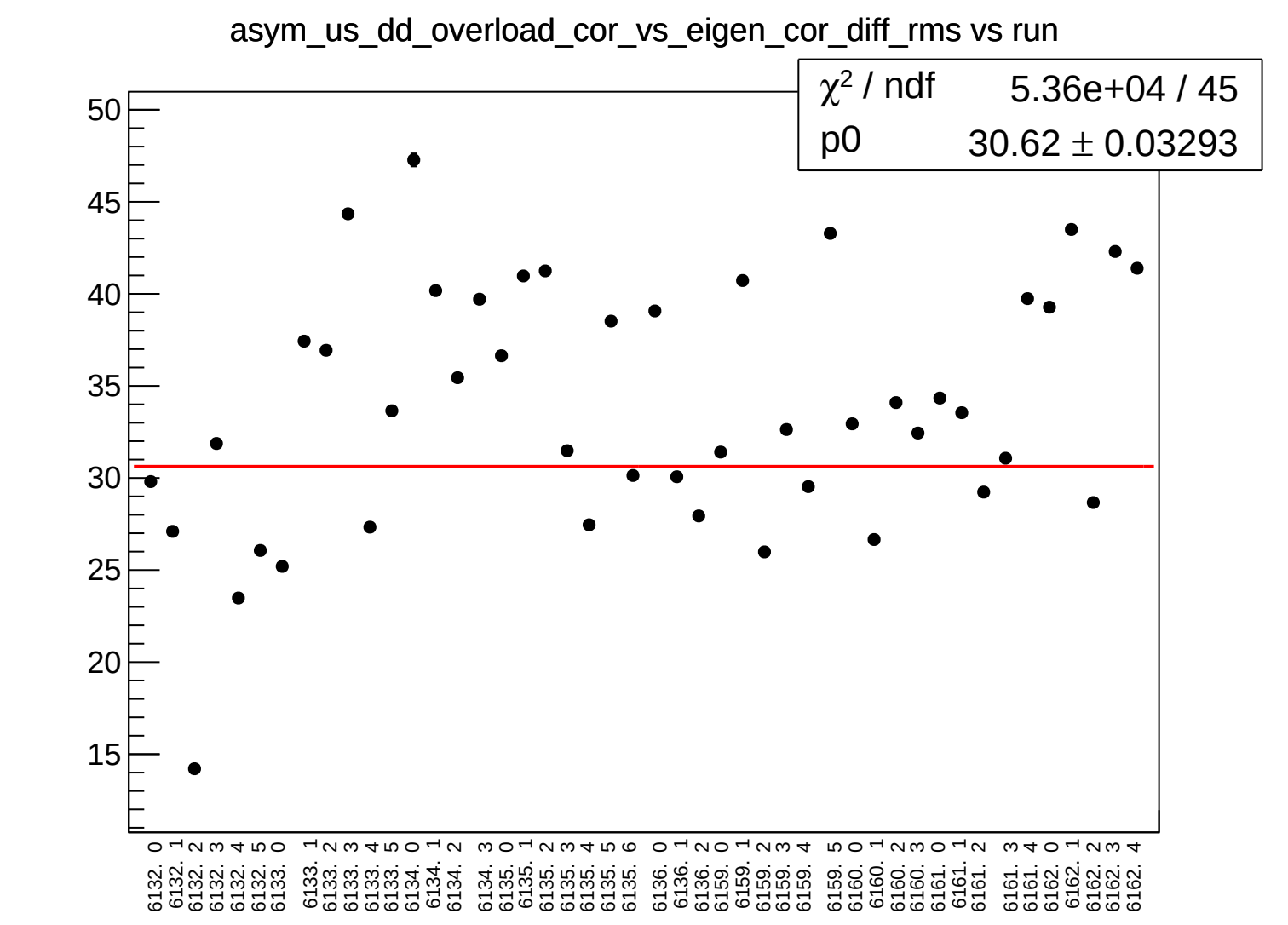

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.645e+05 / 45
p0 2.676e−11 ± 3.595e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

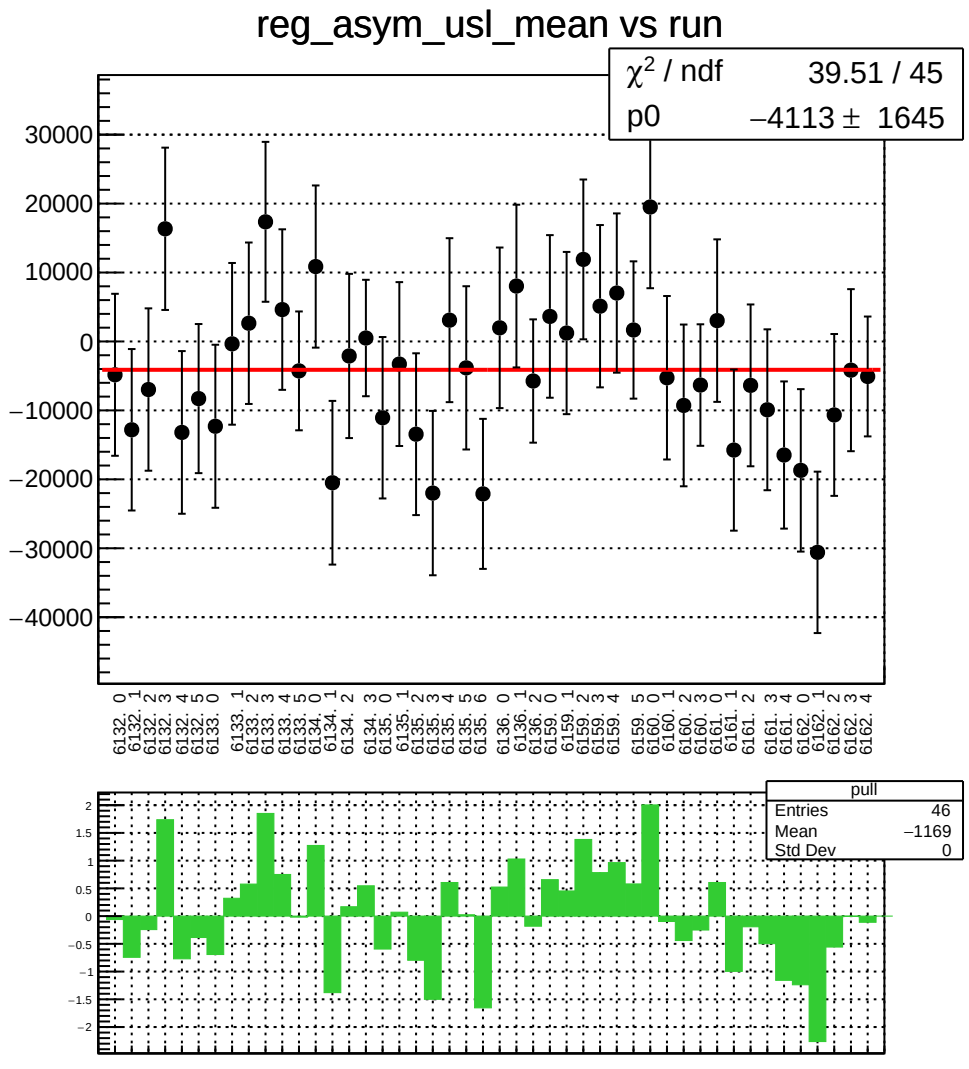

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 44.24 / 45
p0 −0.02046 ± 0.04657
pull
Entries 46
Mean 41.2
Std Dev 39.3

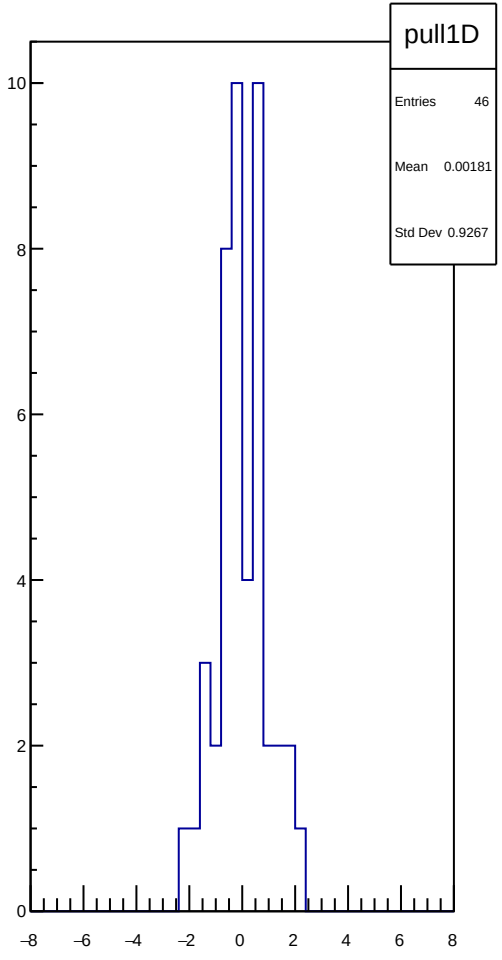

pull1D
Entries 46
Mean 0.01358
Std Dev 0.9806

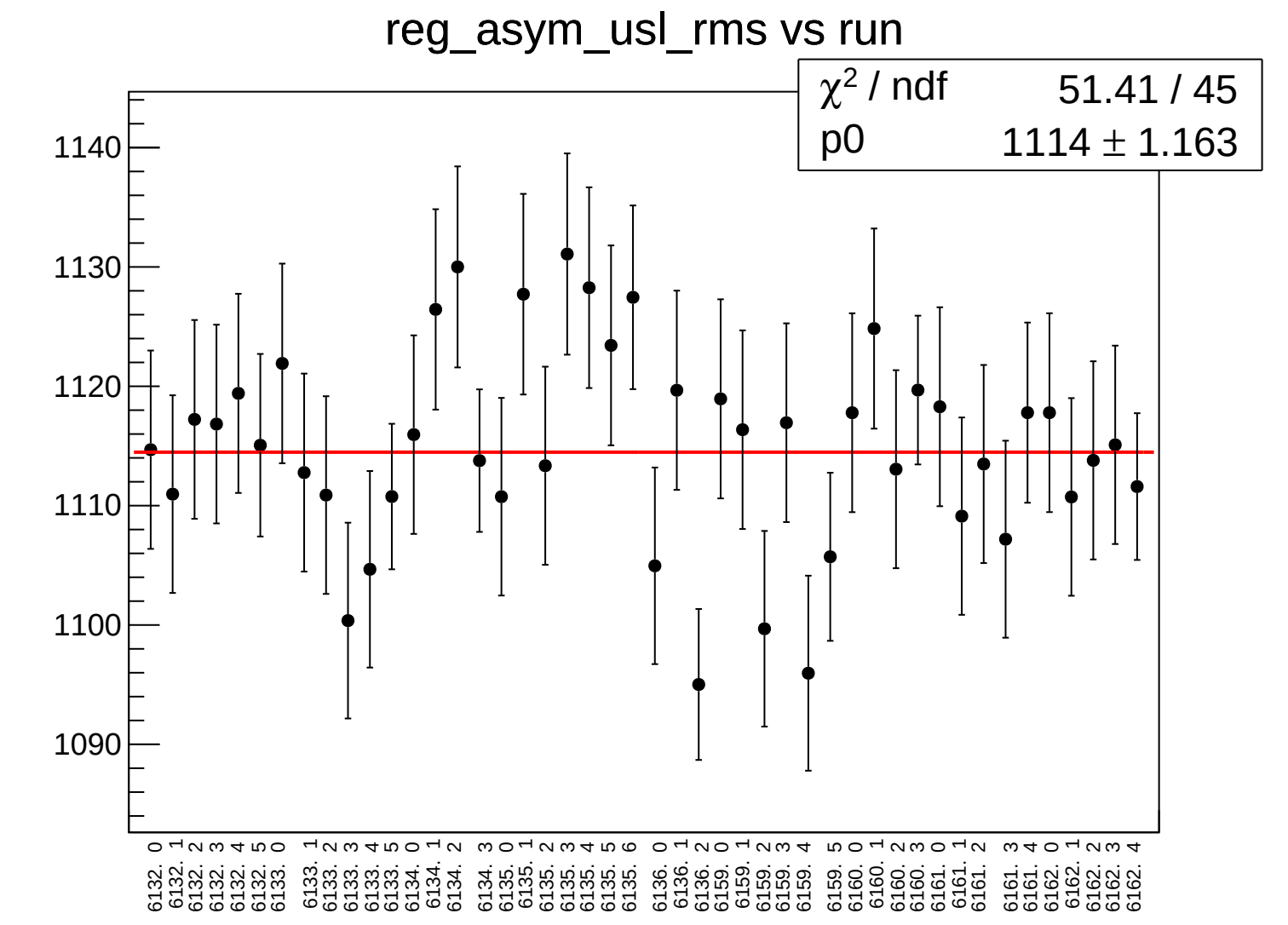

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 5.36e+04 / 45
p0 30.62 ± 0.03293
50
45
40
35
30
25
20
15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

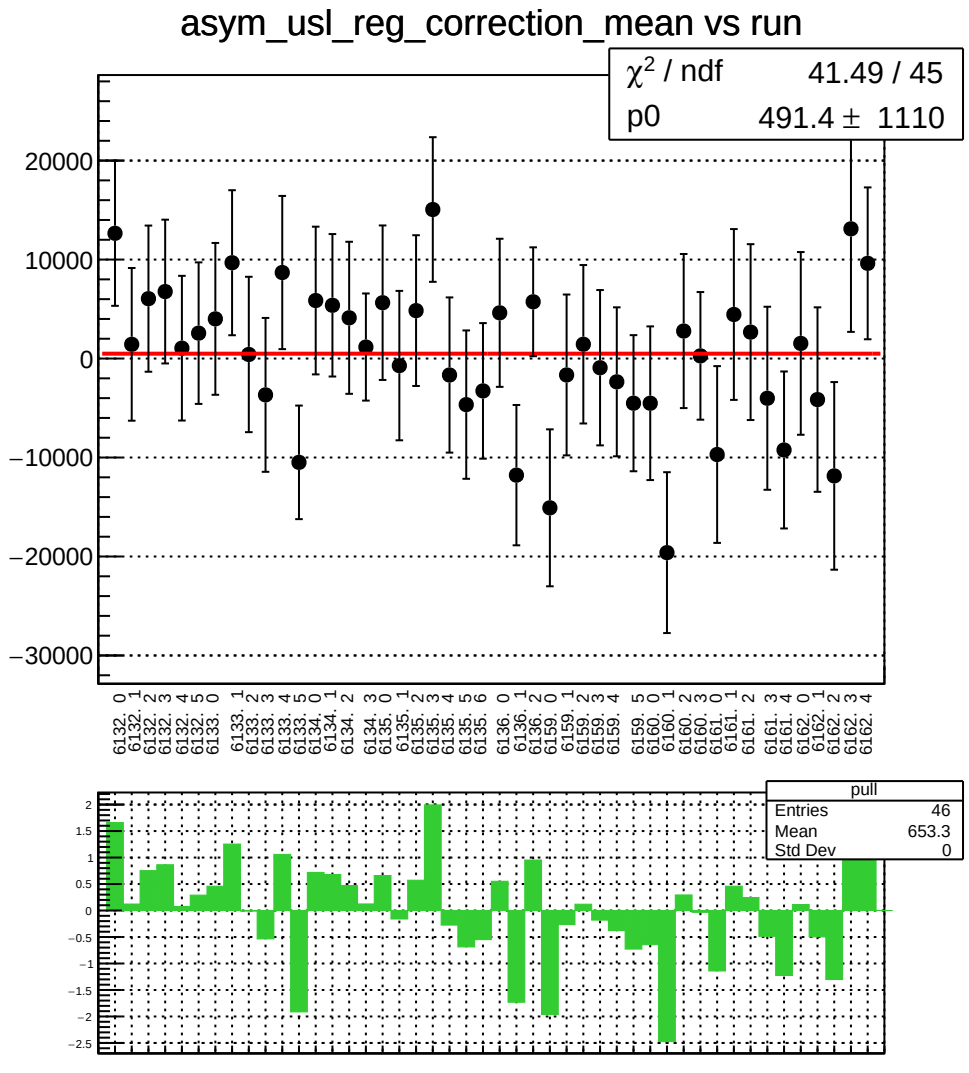

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.24 / 45
p0 −0.02046 ± 0.04657
pull
Entries 46
Mean 41.2
Std Dev 39.3
pull1D
Entries 46
Mean 0.01358
Std Dev 0.9806

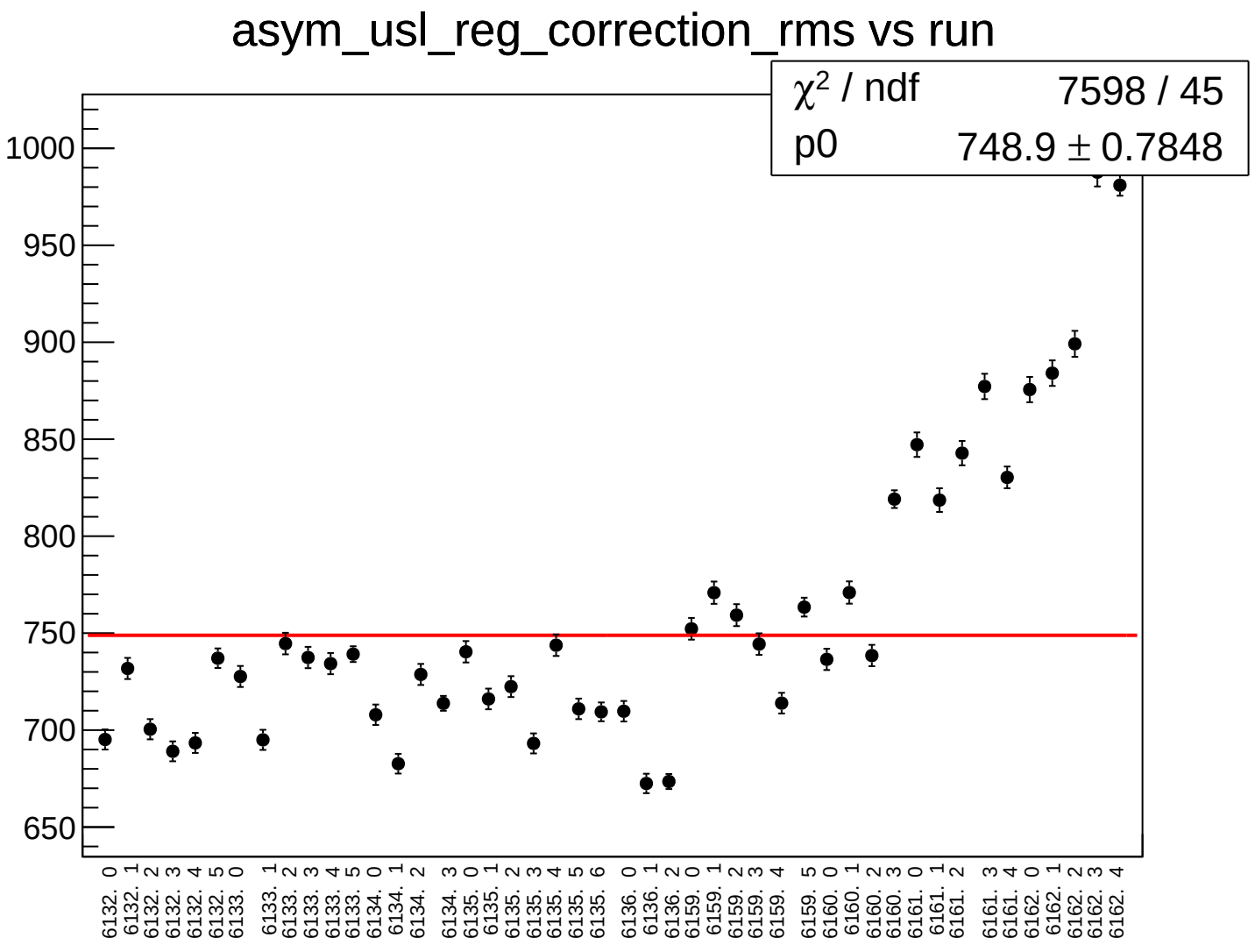

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.36e+04 / 45
p0 30.62 ± 0.03293
50
45
40
35
30
25
20
15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_usl_mean vs run
χ² / ndf 39.51 / 45
p0 −4113 ± 1645
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1169
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.00181
Std Dev 0.9267
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usl_rms vs run
χ² / ndf 51.41 / 45
p0 1114 ± 1.163
1140
1130
1120
1110
1100
1090
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usl_reg_correction_mean vs run
χ² / ndf 41.49 / 45
p0 491.4 ± 1110
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 653.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.006283
Std Dev 0.9497
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_reg_correction_rms vs run
χ² / ndf 7598 / 45
p0 748.9 ± 0.7848
1000
950
900
850
800
750
700
650
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
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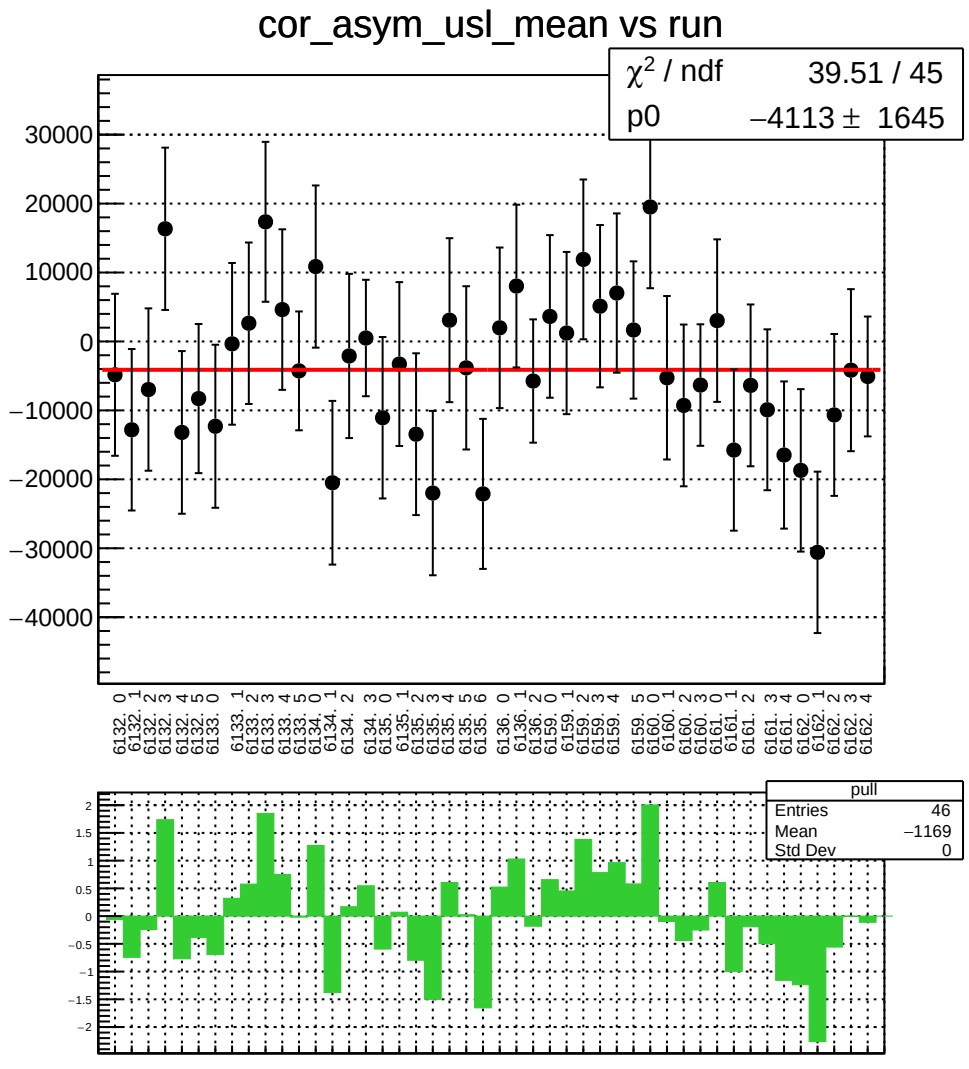
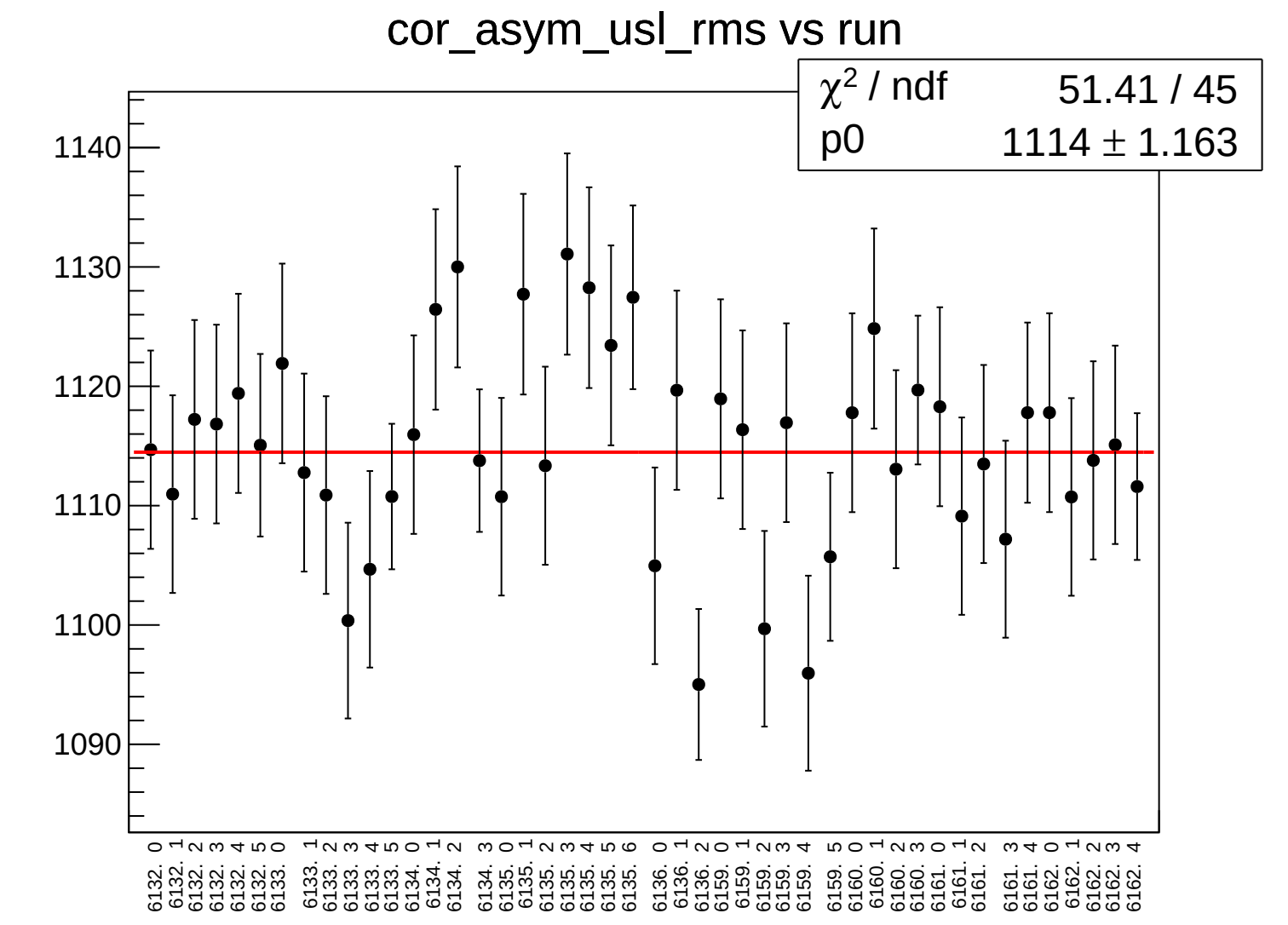
6162. 3
6162. 4


cor_asym_usl_mean vs run
χ² / ndf 39.51 / 45
p0 −4113 ± 1645
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1169
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.00181
Std Dev 0.9267
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usl_rms vs run
χ² / ndf 51.41 / 45
p0 1114 ± 1.163
1140
1130
1120
1110
1100
1090
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 3
6161. 4
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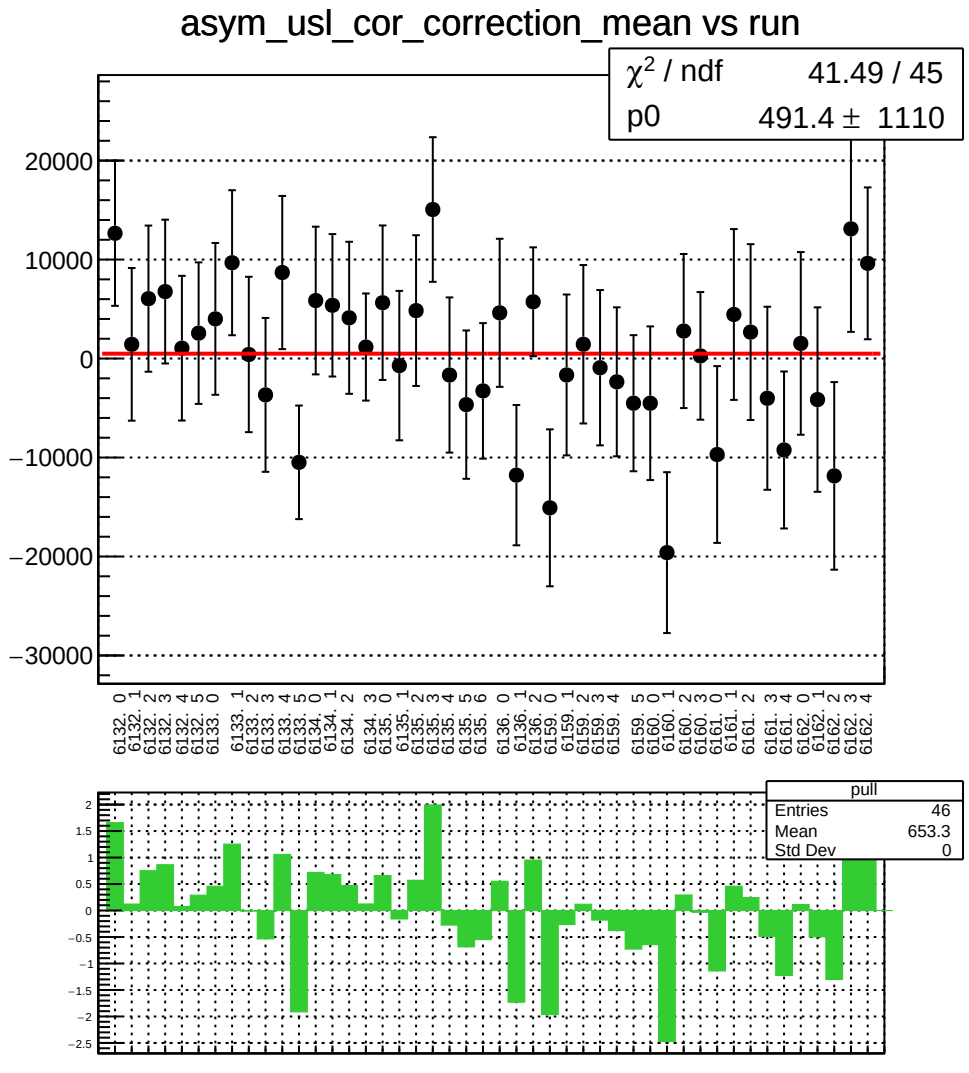
6162. 3
6162. 4


asym_usl_cor_correction_mean vs run
χ² / ndf 41.49 / 45
p0 491.4 ± 1110
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 653.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.006283
Std Dev 0.9497
9
8
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6
5
4
3
2
1
0
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−6
−4
−2
0
2
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6
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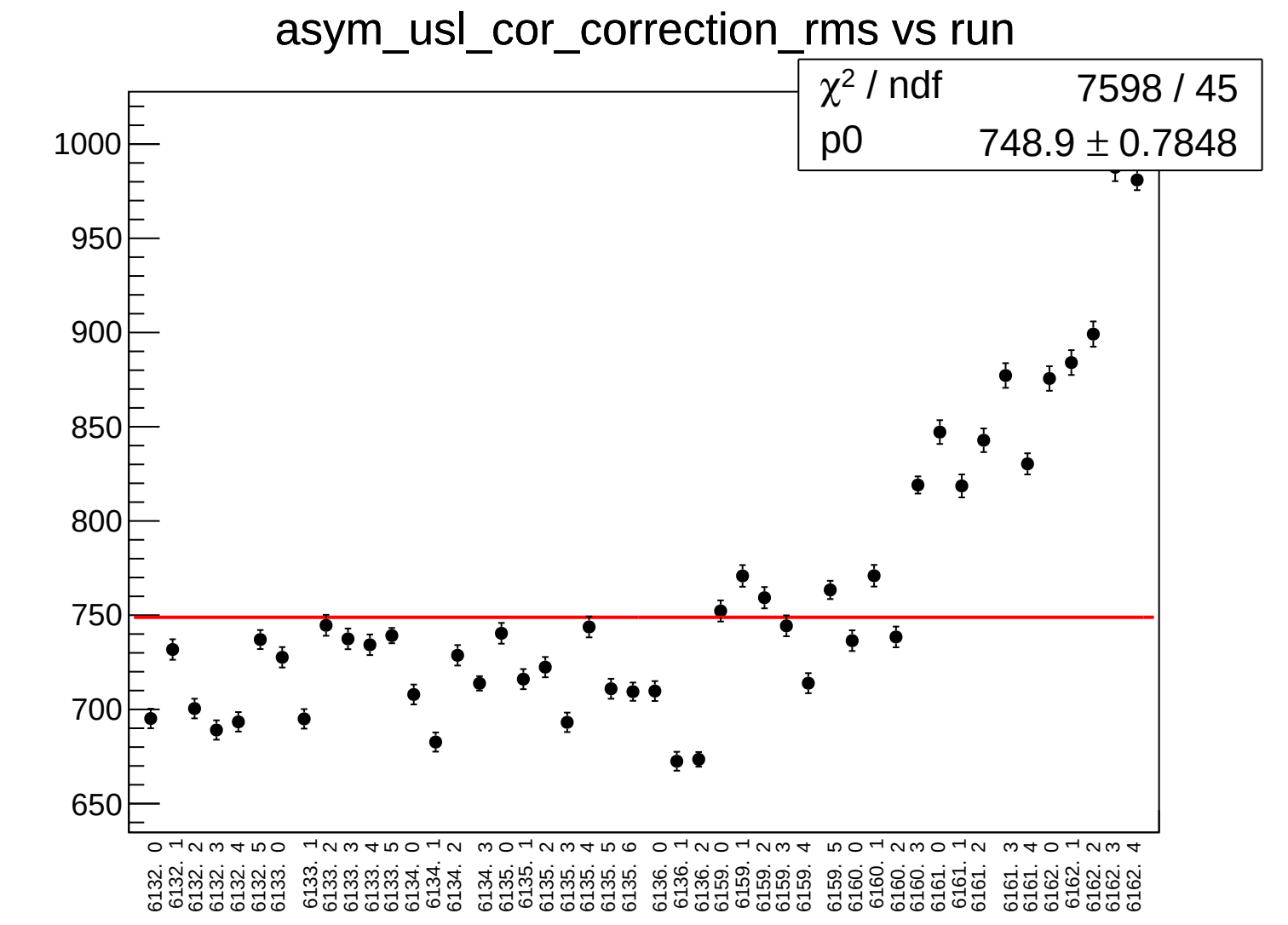
asym_usl_cor_correction_rms vs run
χ² / ndf 7598 / 45
p0 748.9 ± 0.7848
1000
950
900
850
800
750
700
650
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
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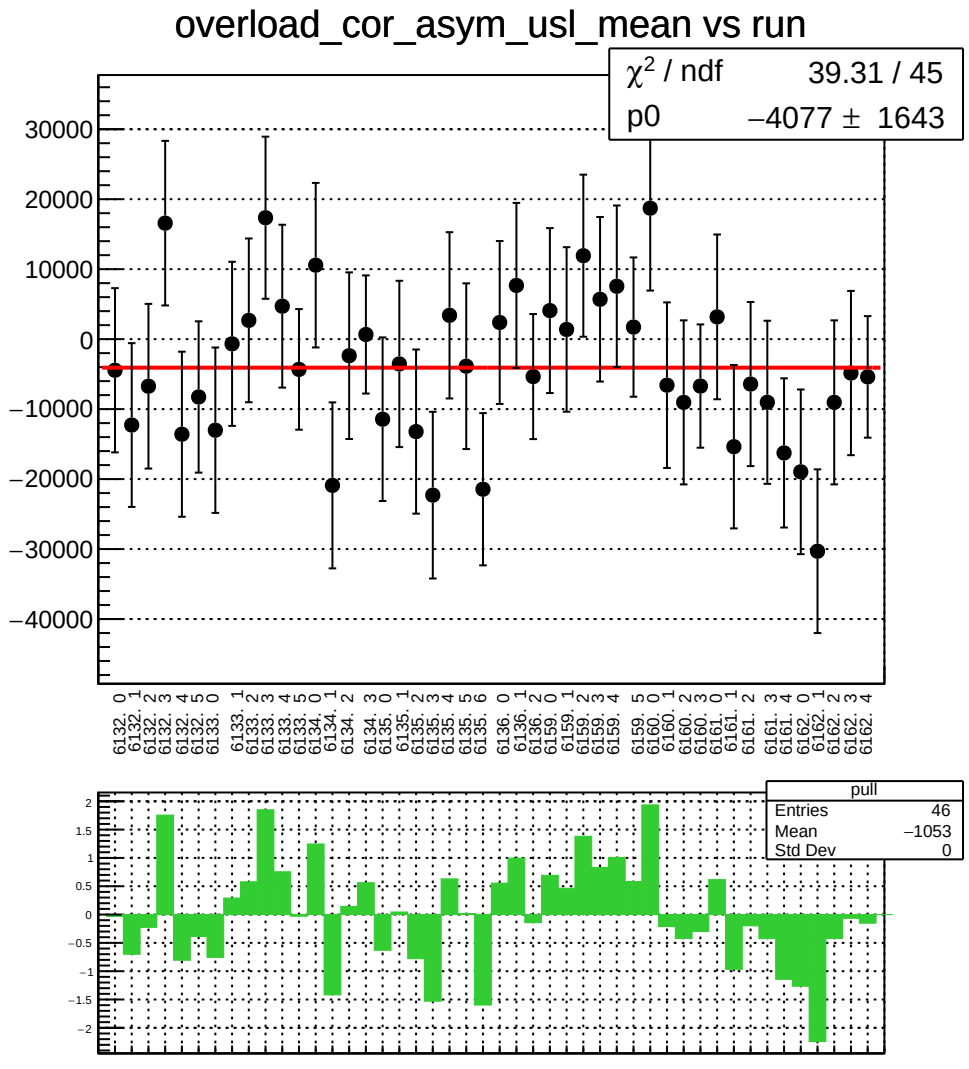
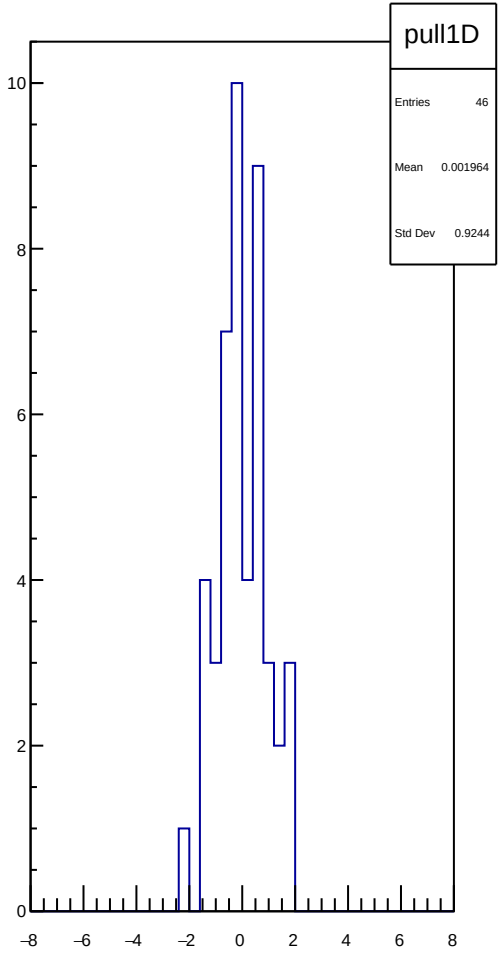
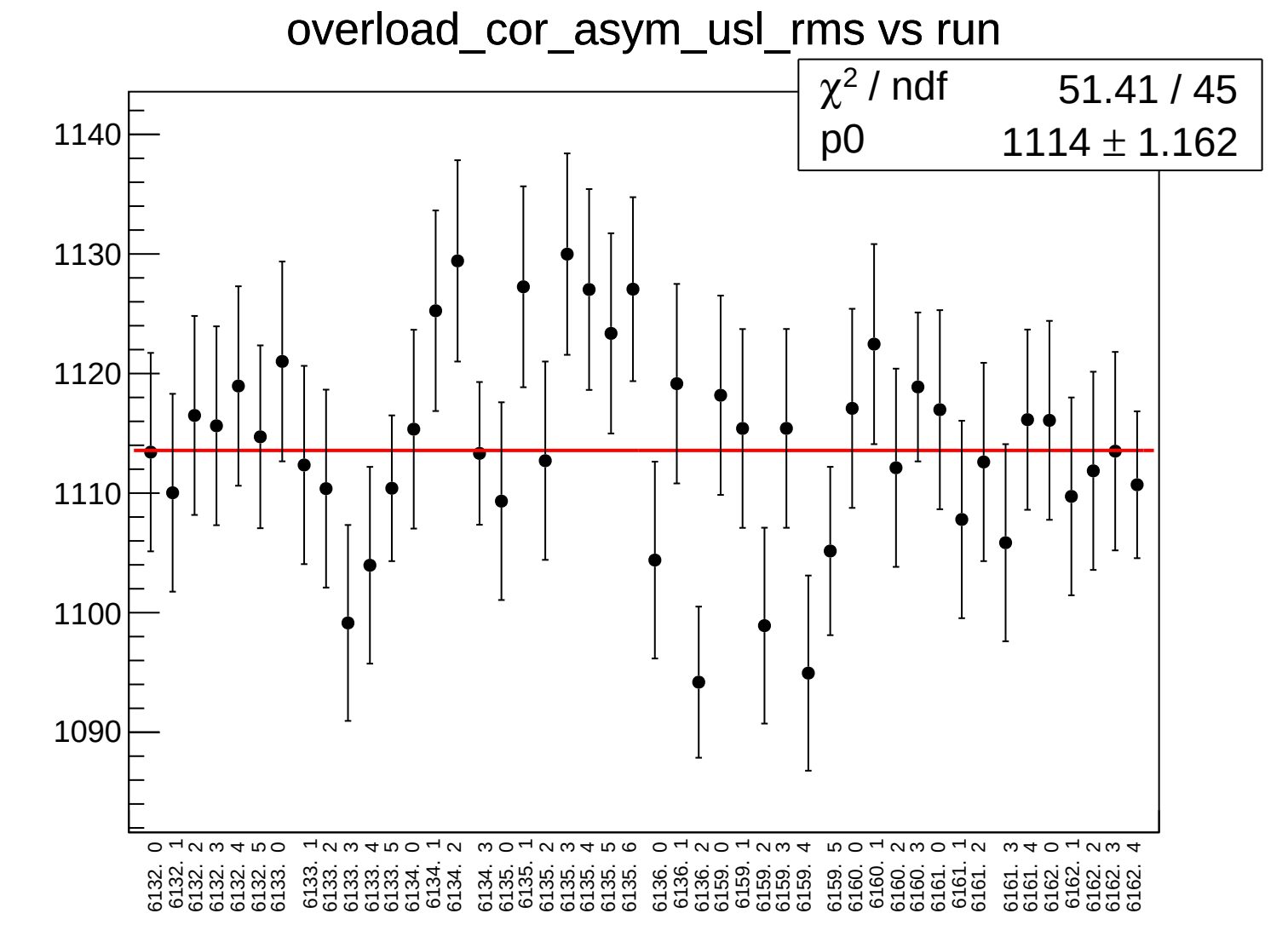
6162. 4


overload_cor_asym_usl_mean vs run
χ² / ndf 39.31 / 45
p0 −4077 ± 1643
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1053
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.001964
Std Dev 0.9244
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


overload_cor_asym_usl_rms vs run
χ² / ndf 51.41 / 45
p0 1114 ± 1.162
1140
1130
1120
1110
1100
1090
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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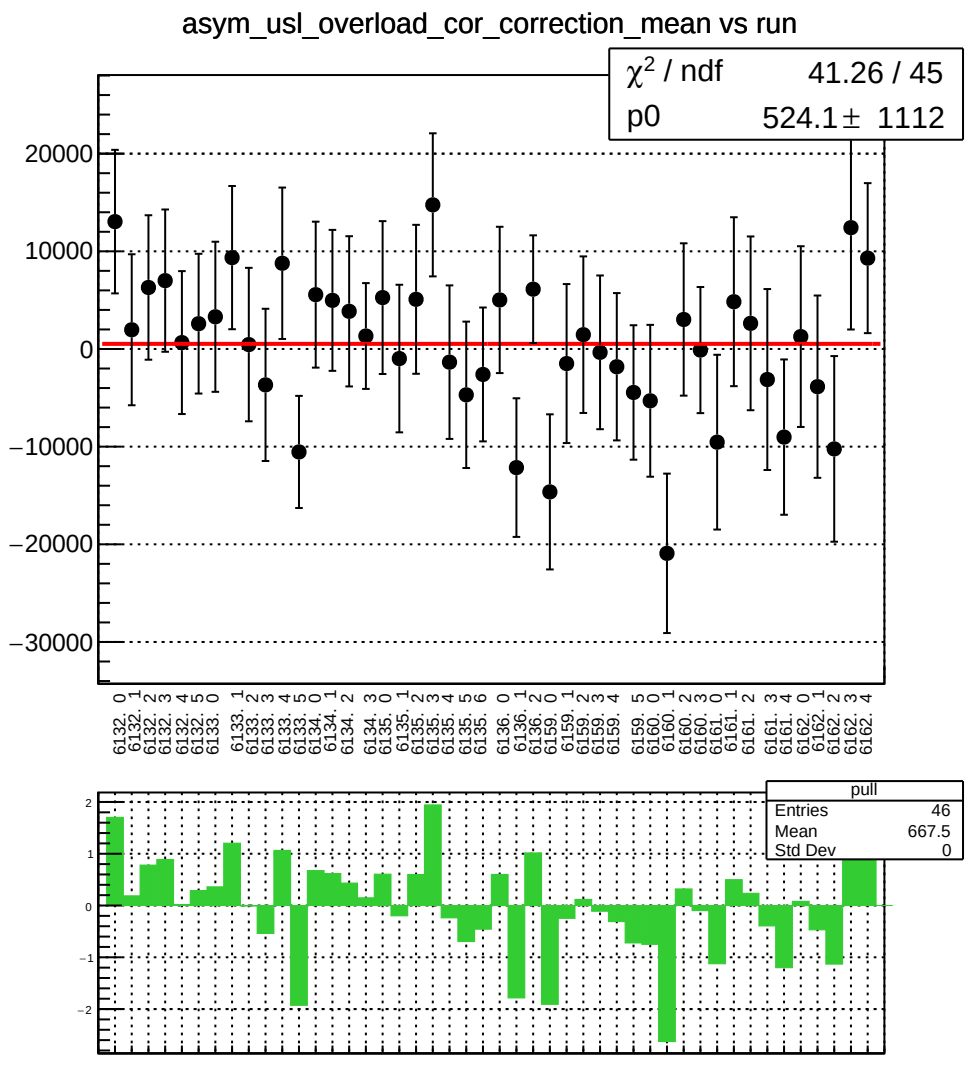
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usl_overload_cor_correction_mean vs run
χ² / ndf 41.26 / 45
p0 524.1 ± 1112
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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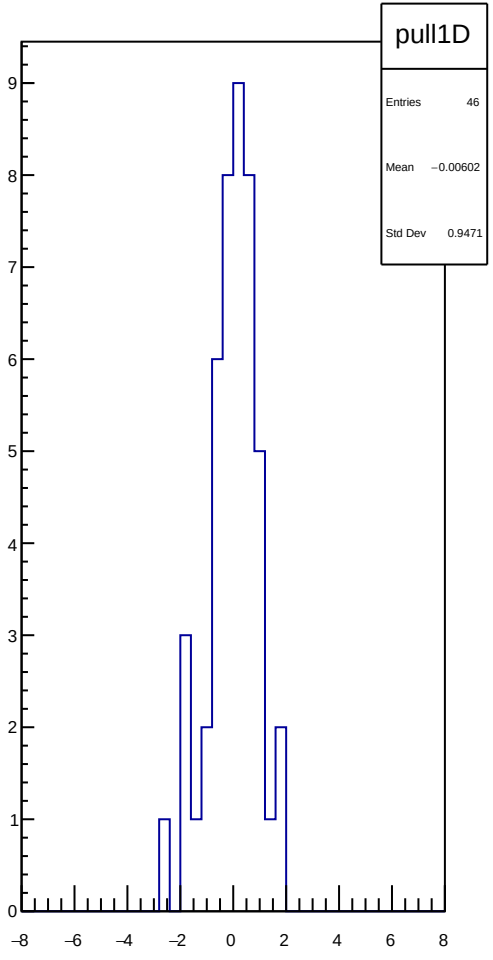
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 667.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.00602
Std Dev 0.9471
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5
4
3
2
1
0
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−6
−4
−2
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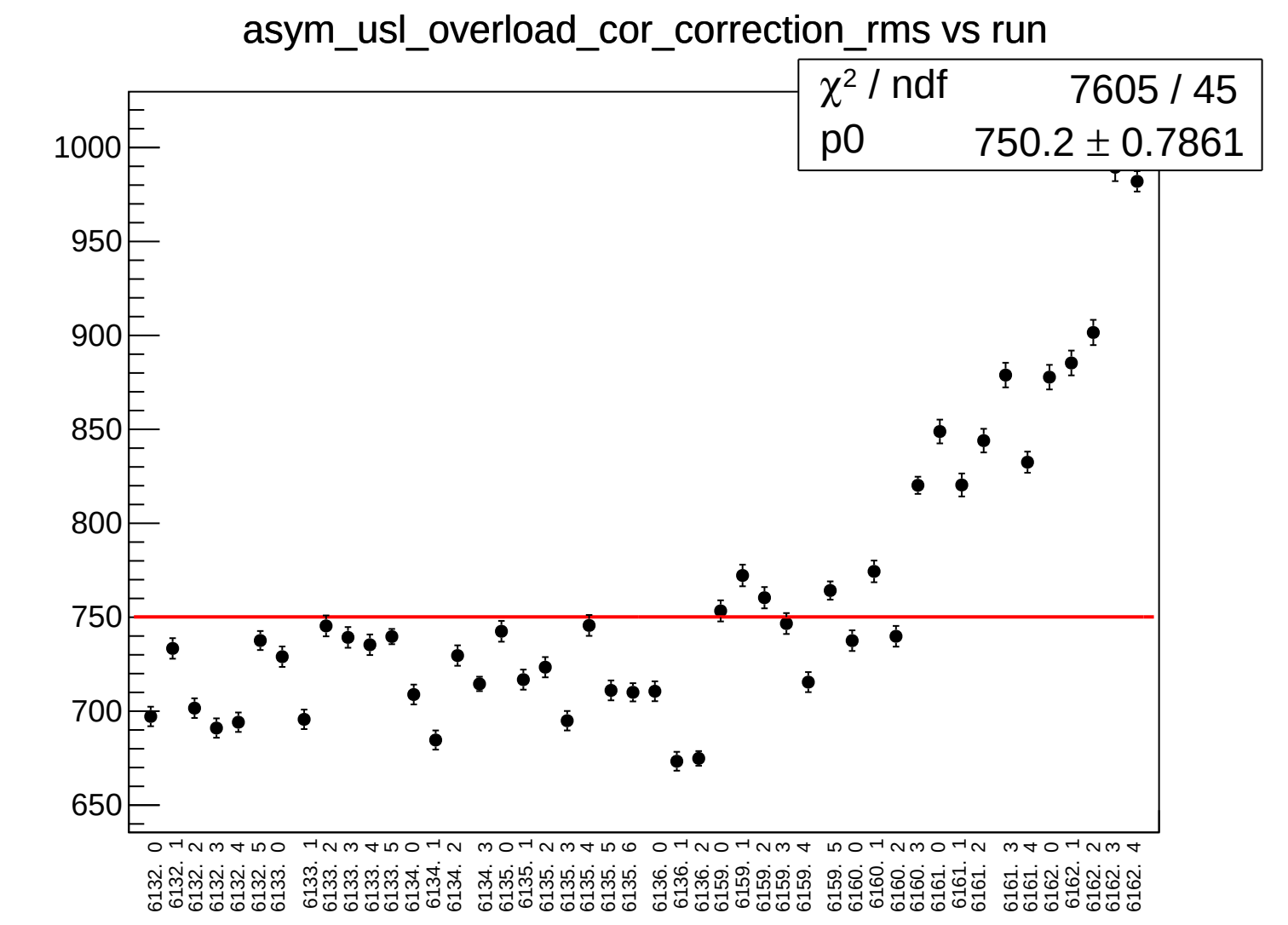
2
4
6
8


asym_usl_overload_cor_correction_rms vs run
χ² / ndf 7605 / 45
p0 750.2 ± 0.7861
1000
950
900
850
800
750
700
650
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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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
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
6161. 3
6161. 4
6162. 0
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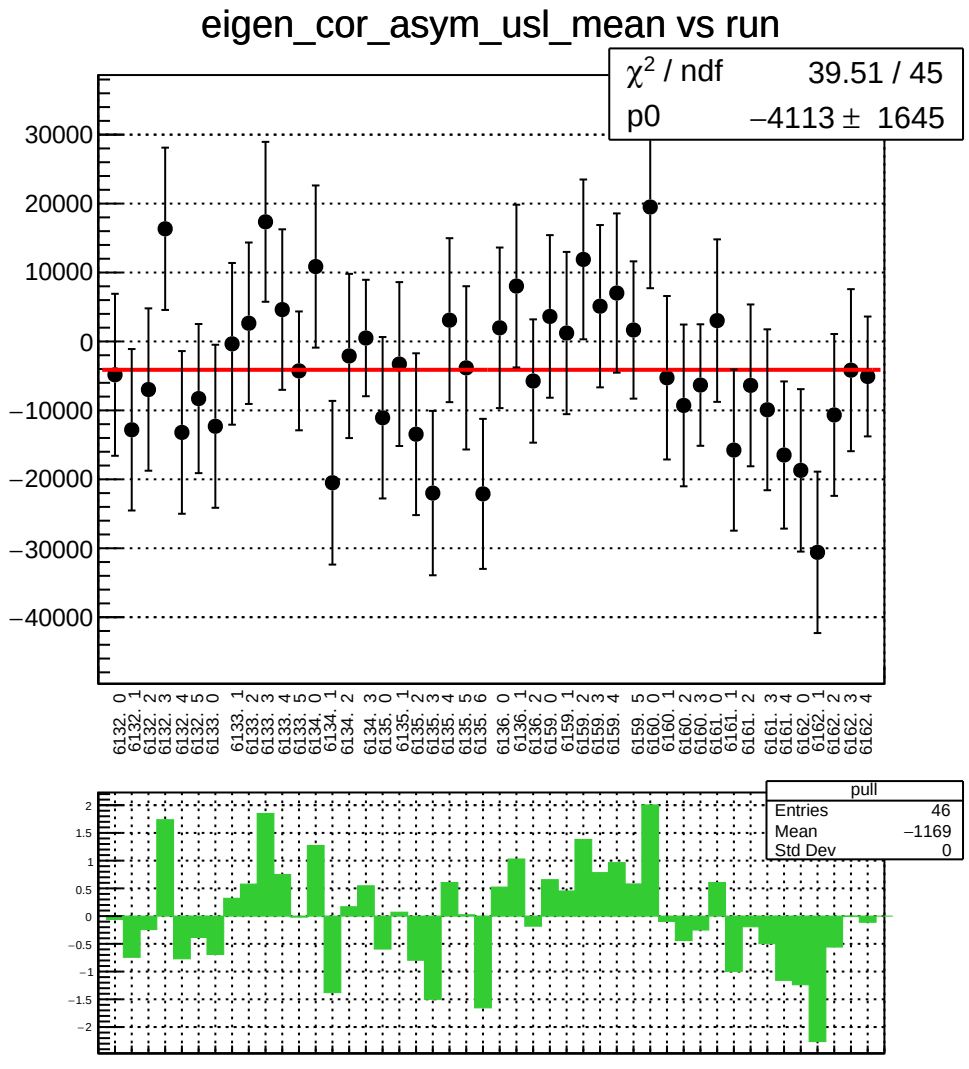
6162. 2
6162. 3
6162. 4


eigen_cor_asym_usl_mean vs run
χ² / ndf 39.51 / 45
p0 −4113 ± 1645
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
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6135. 6
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6159. 2
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6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1169
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.00181
Std Dev 0.9267
10
8
6
4
2
0
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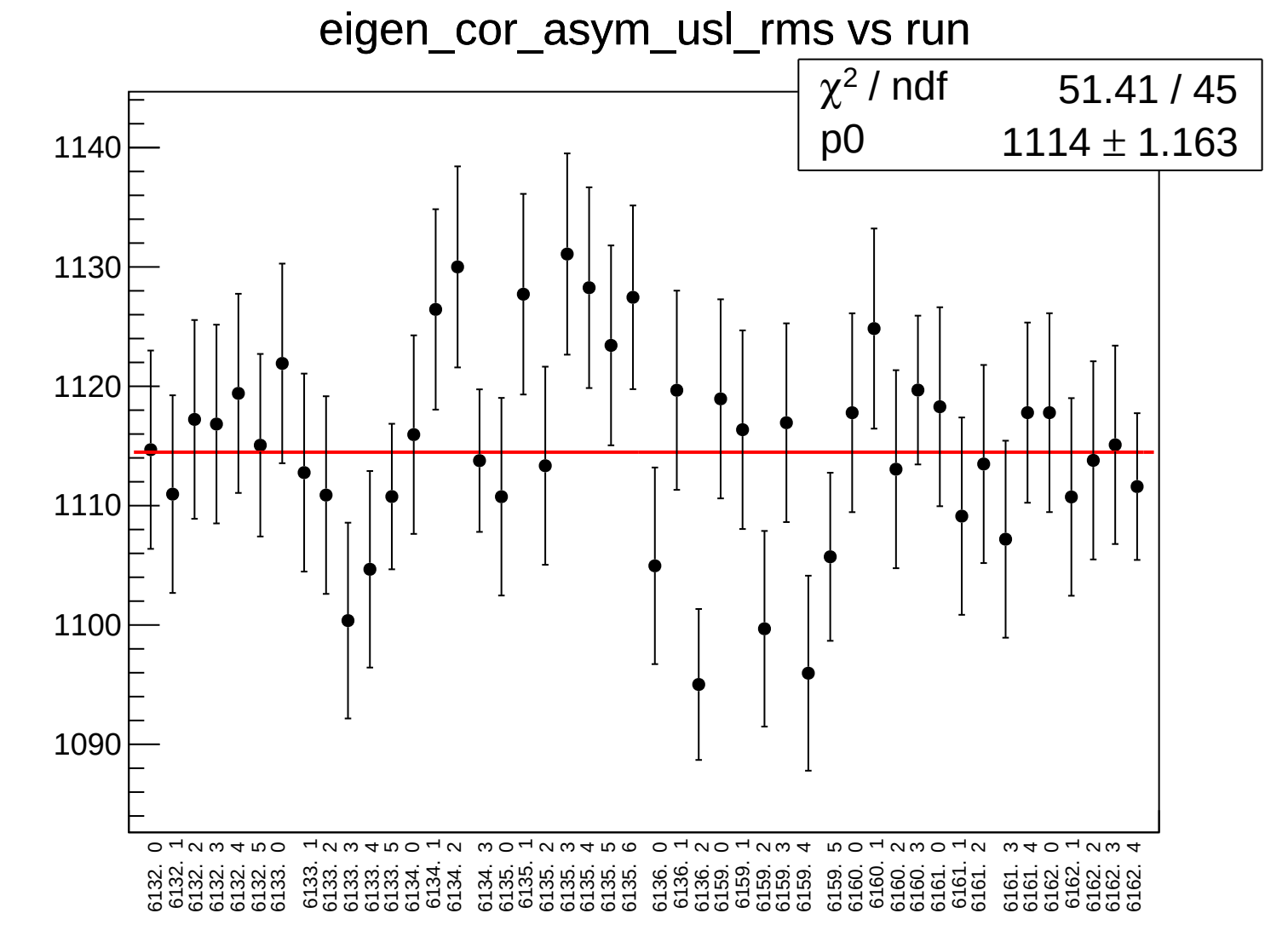
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usl_rms vs run
χ² / ndf 51.41 / 45
p0 1114 ± 1.163
1140
1130
1120
1110
1100
1090
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
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
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6159. 5
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6160. 1
6160. 2
6160. 3
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6161. 2
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6161. 4
6162. 0
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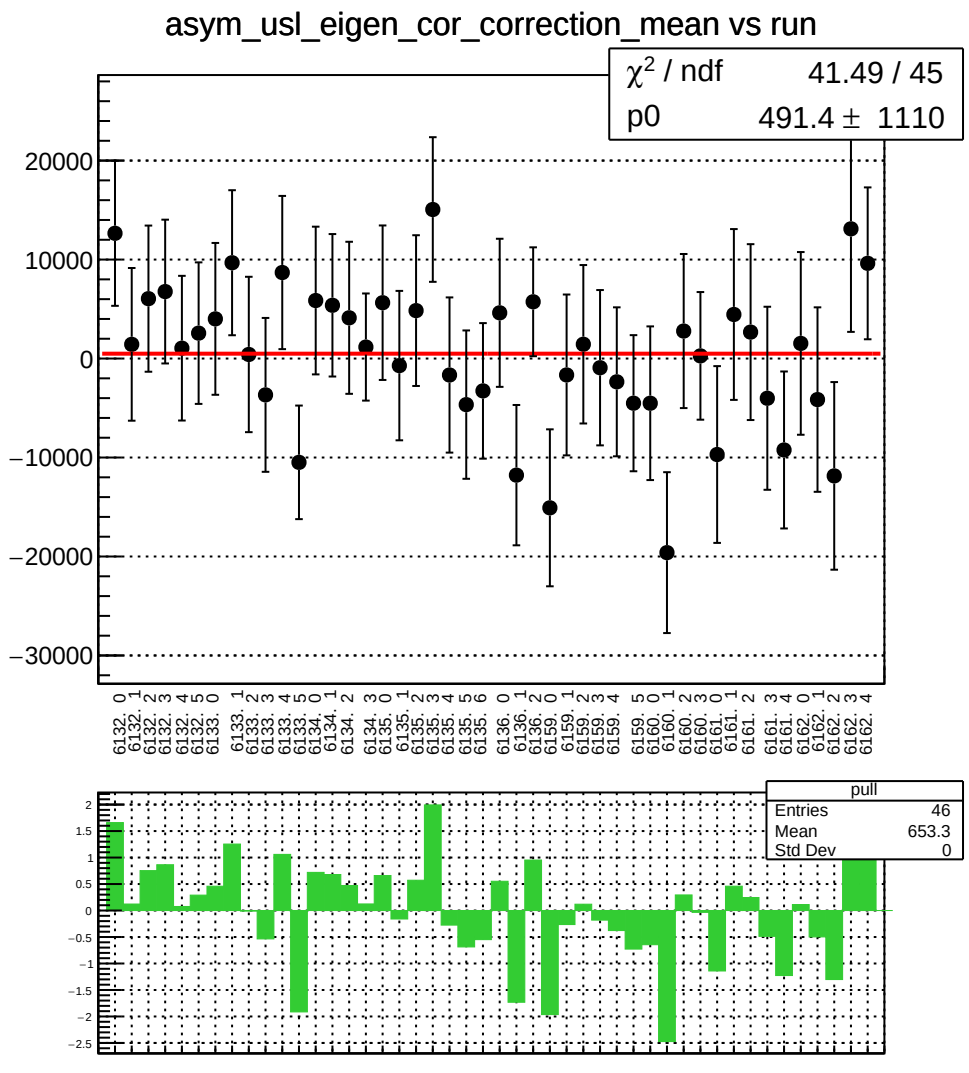
6162. 3
6162. 4


asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 41.49 / 45
p0 491.4 ± 1110
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 2
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6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 653.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.006283
Std Dev 0.9497
9
8
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4
3
2
1
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−4
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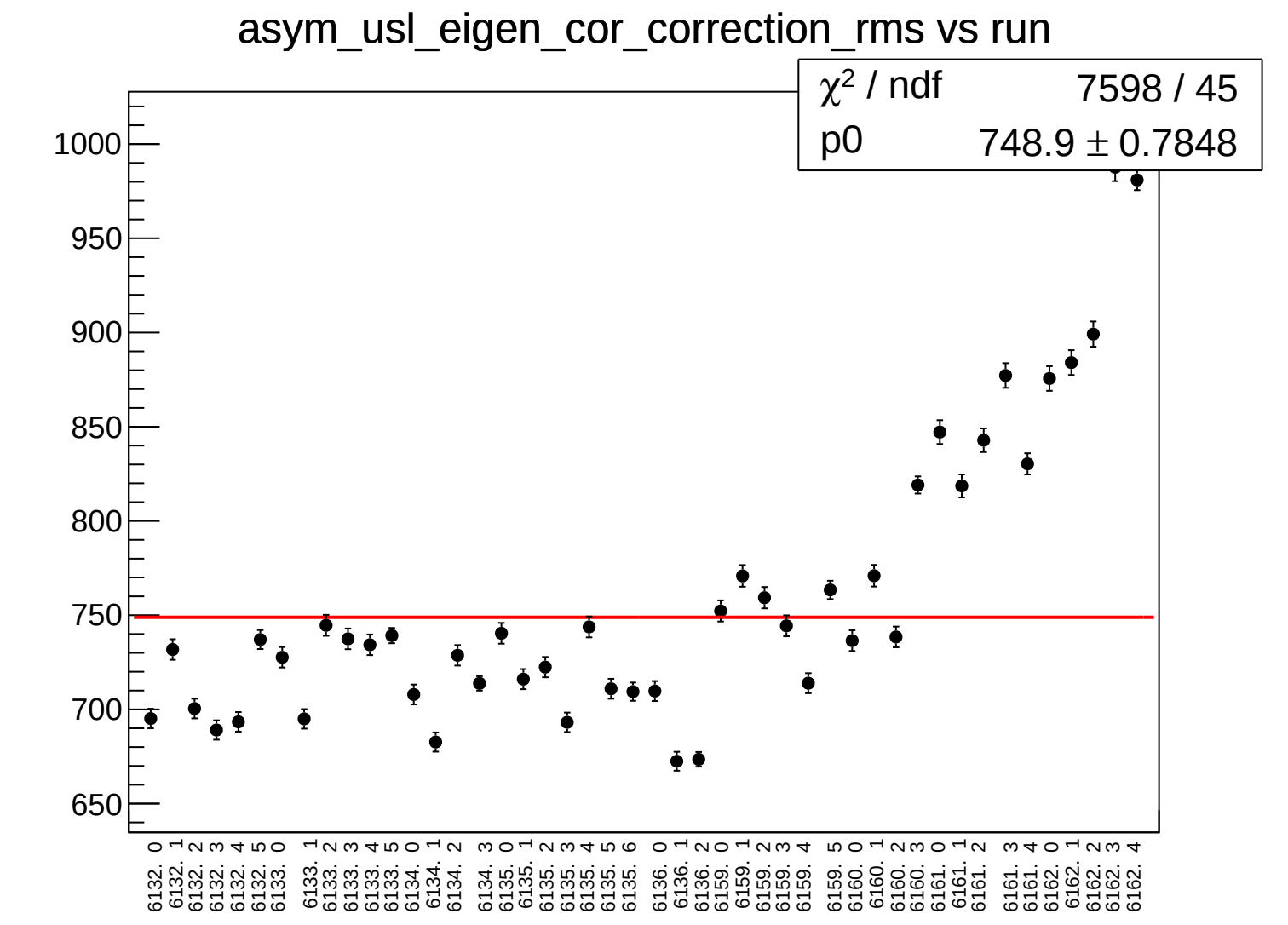
2
4
6
8


asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 7598 / 45
p0 748.9 ± 0.7848
1000
950
900
850
800
750
700
650
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6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
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6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
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6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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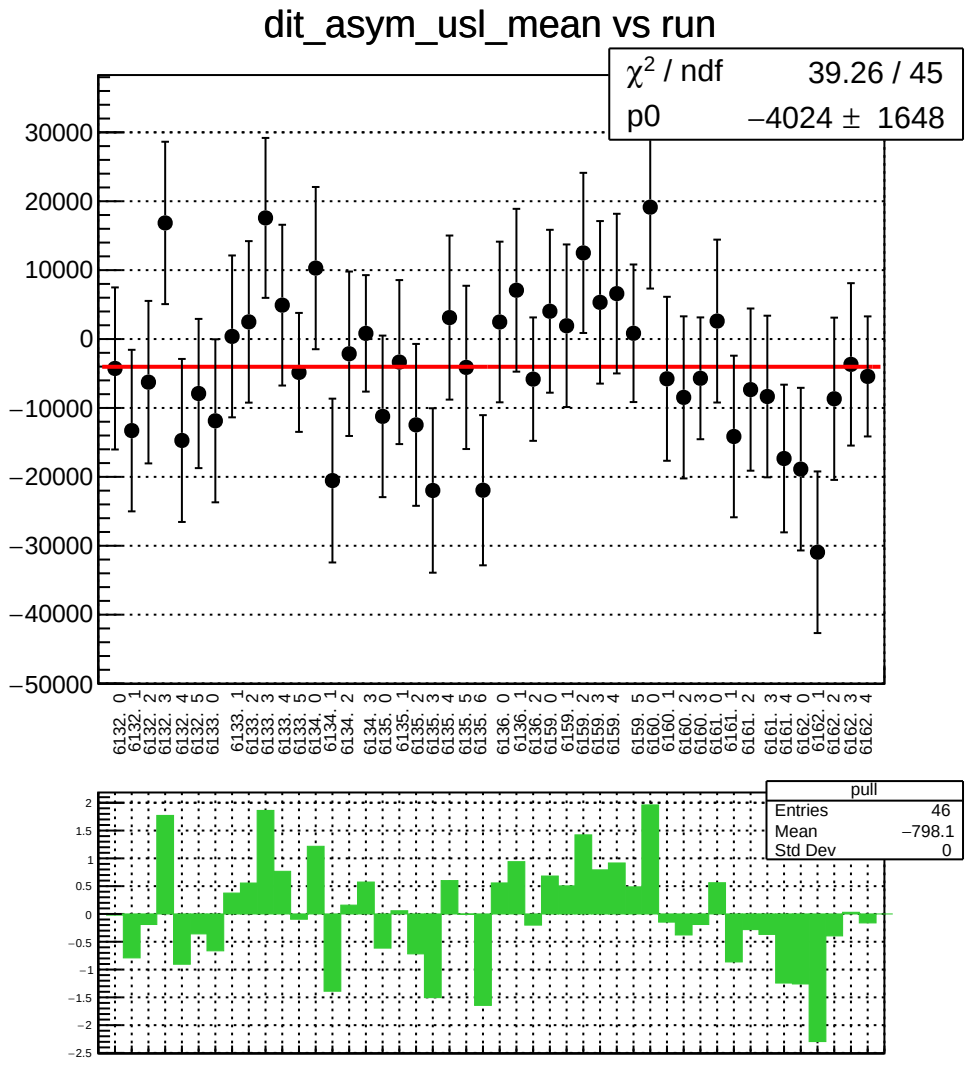
6162. 4


dit_asym_usl_mean vs run
χ² / ndf 39.26 / 45
p0 −4024 ± 1648
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
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6160. 2
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6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −798.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean 0.002555
Std Dev 0.9239
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10
8
6
4
2
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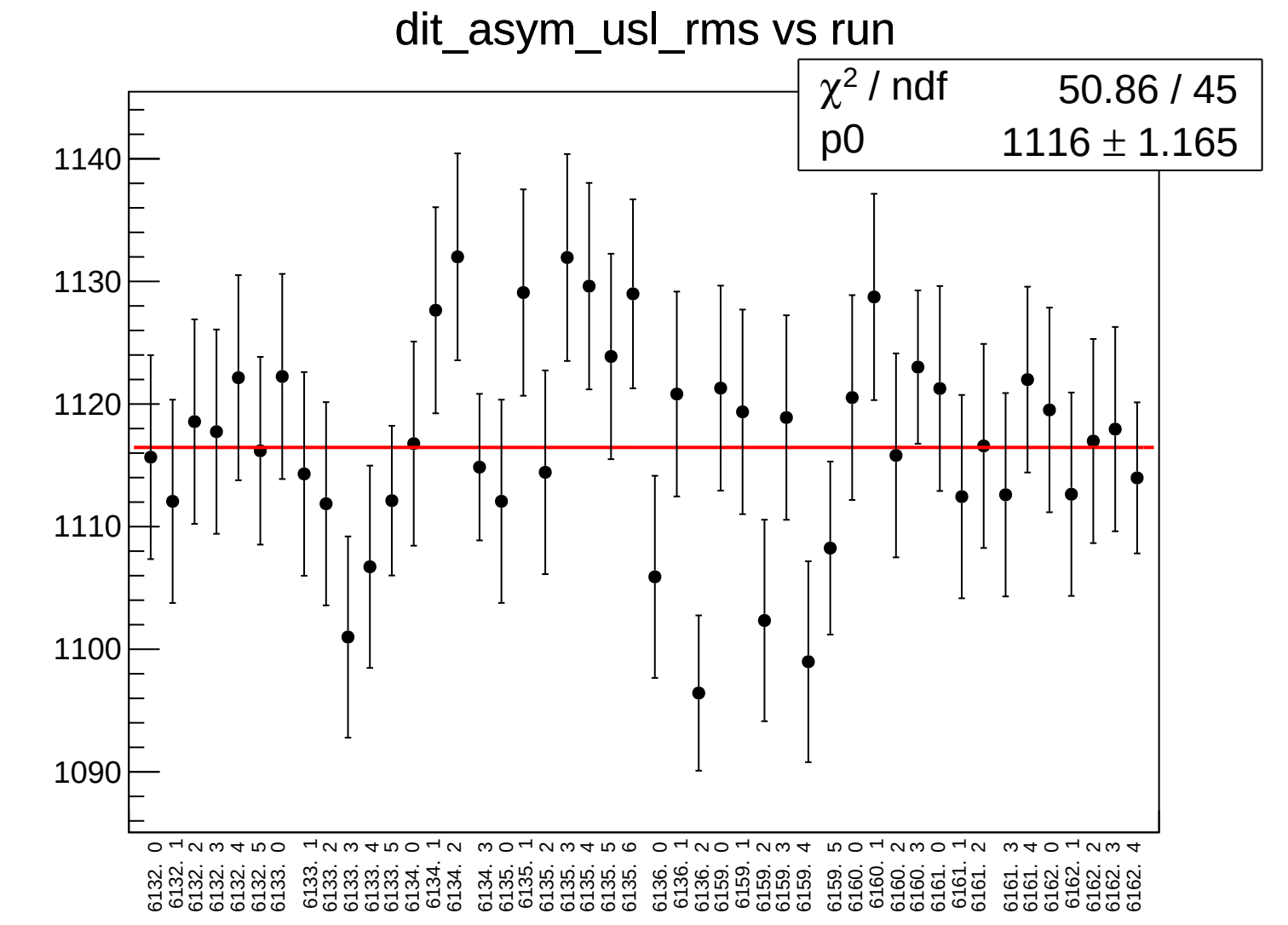
−6
−4
−2
0
2
4
6
8


dit_asym_usl_rms vs run
χ² / ndf 50.86 / 45
p0 1116 ± 1.165
1140
1130
1120
1110
1100
1090
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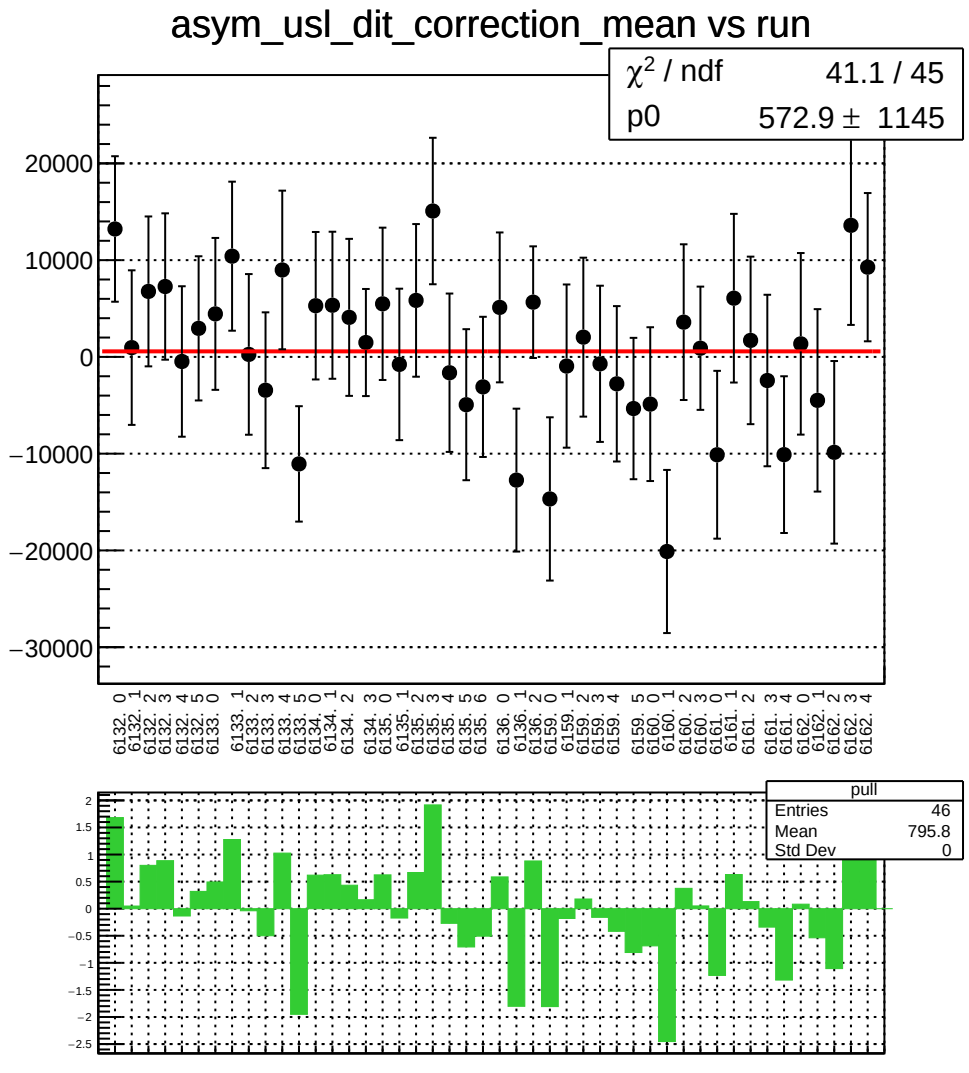
6162. 4


asym_usl_dit_correction_mean vs run
χ² / ndf 41.1 / 45
p0 572.9 ± 1145
20000
10000
0
−10000
−20000
−30000
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6132. 1
6132. 2
6132. 3
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6132. 5
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6133. 2
6133. 3
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6136. 2
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6161. 0
6161. 1
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6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 795.8
Std Dev 0
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1.5
1
0.5
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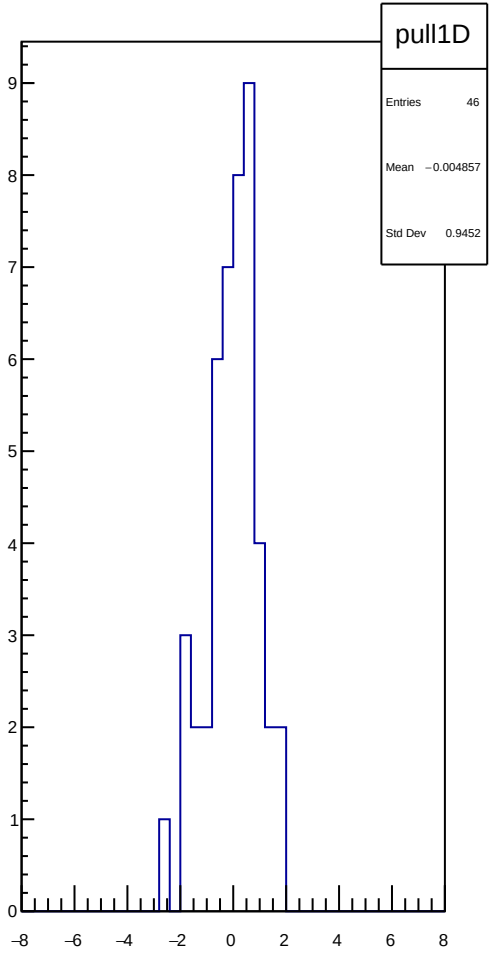
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.004857
Std Dev 0.9452
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8
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5
4
3
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1
0
−8
−6
−4
−2
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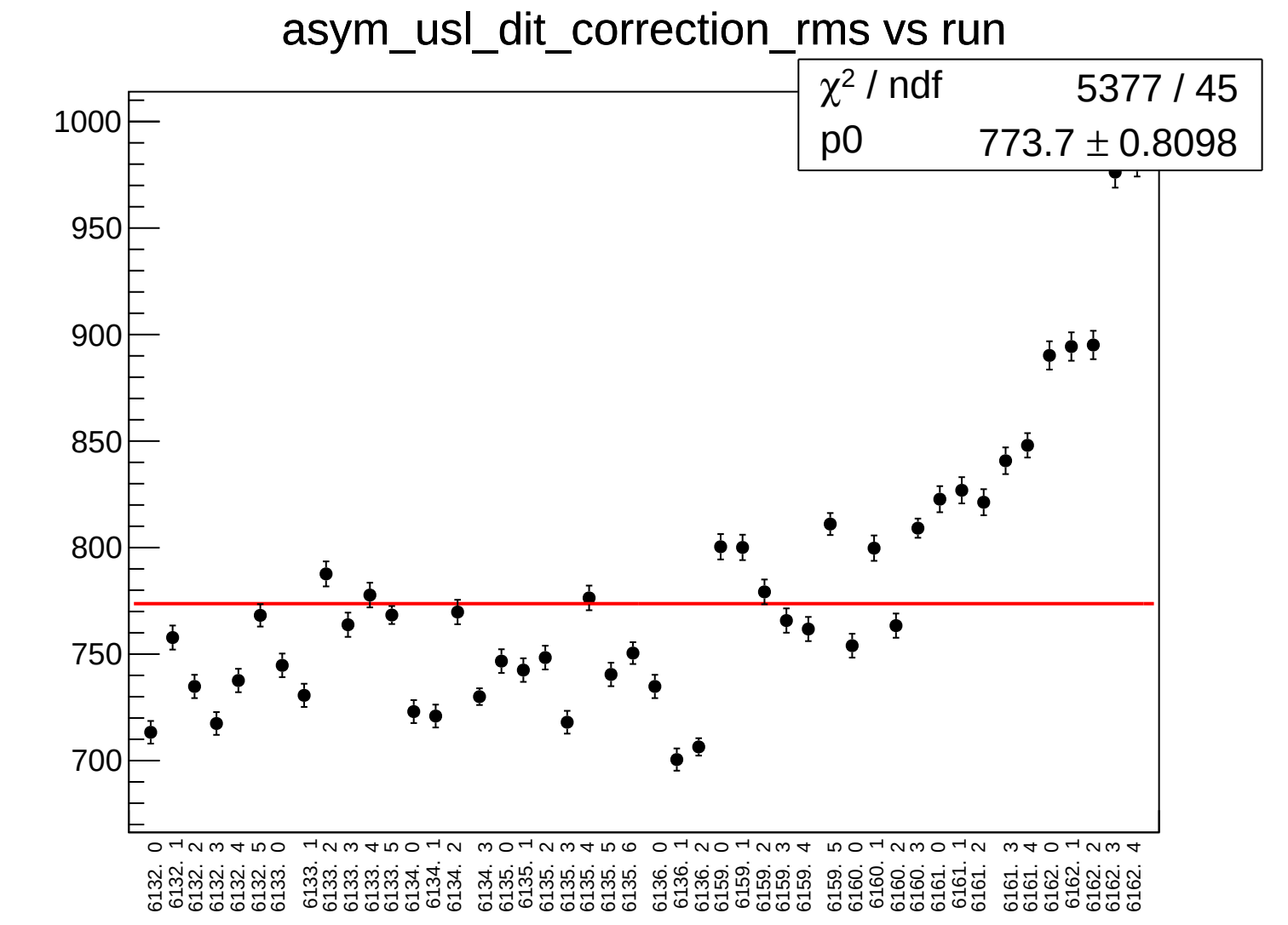
2
4
6
8


asym_usl_dit_correction_rms vs run
χ² / ndf 5377 / 45
p0 773.7 ± 0.8098
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950
900
850
800
750
700
6132. 0
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6132. 2
6132. 3
6132. 4
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6133. 1
6133. 2
6133. 3
6133. 4
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6134. 1
6134. 2
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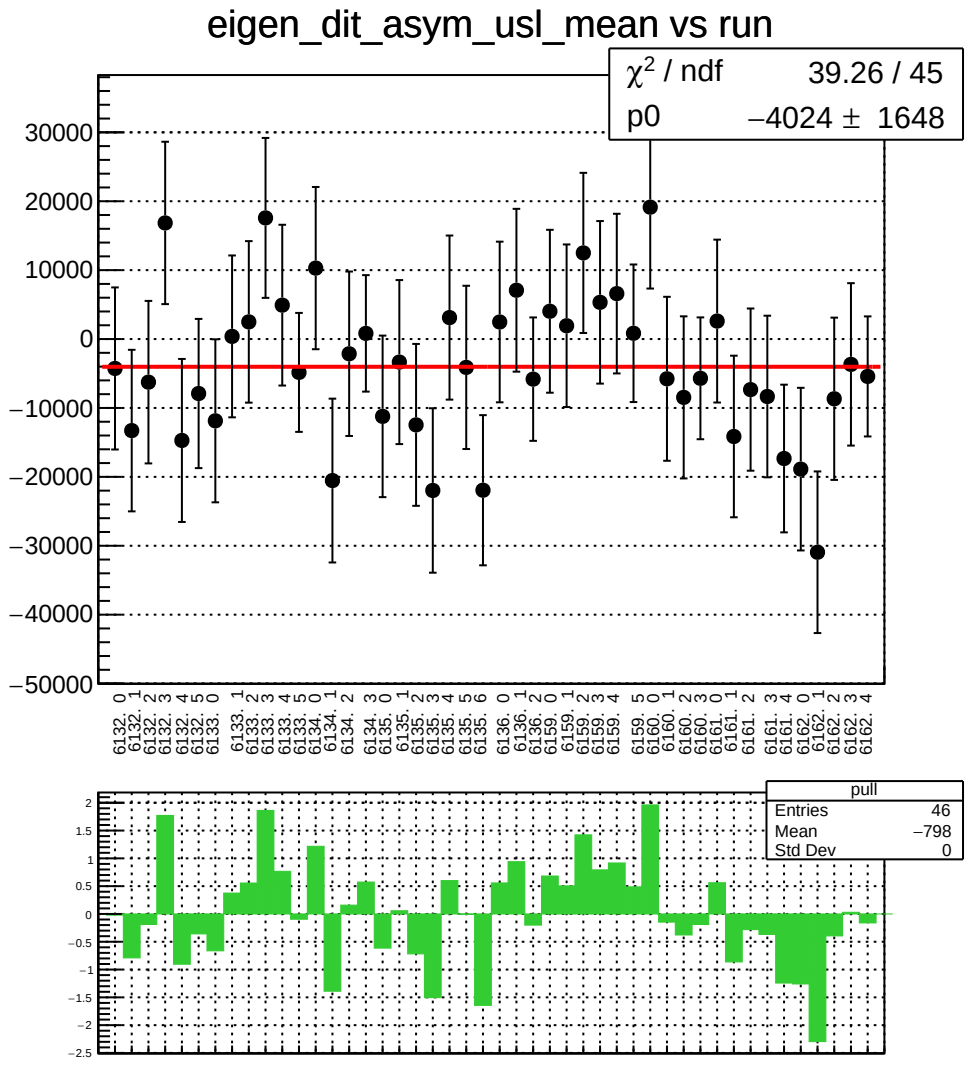
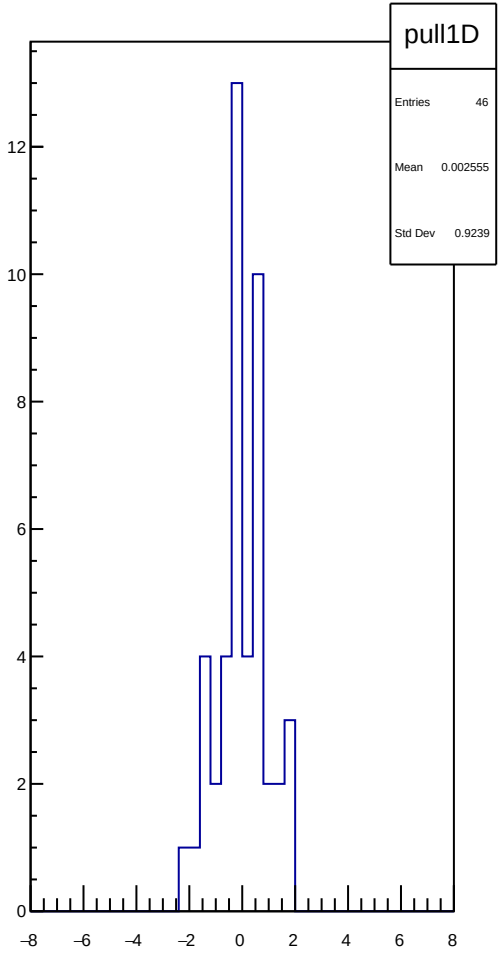
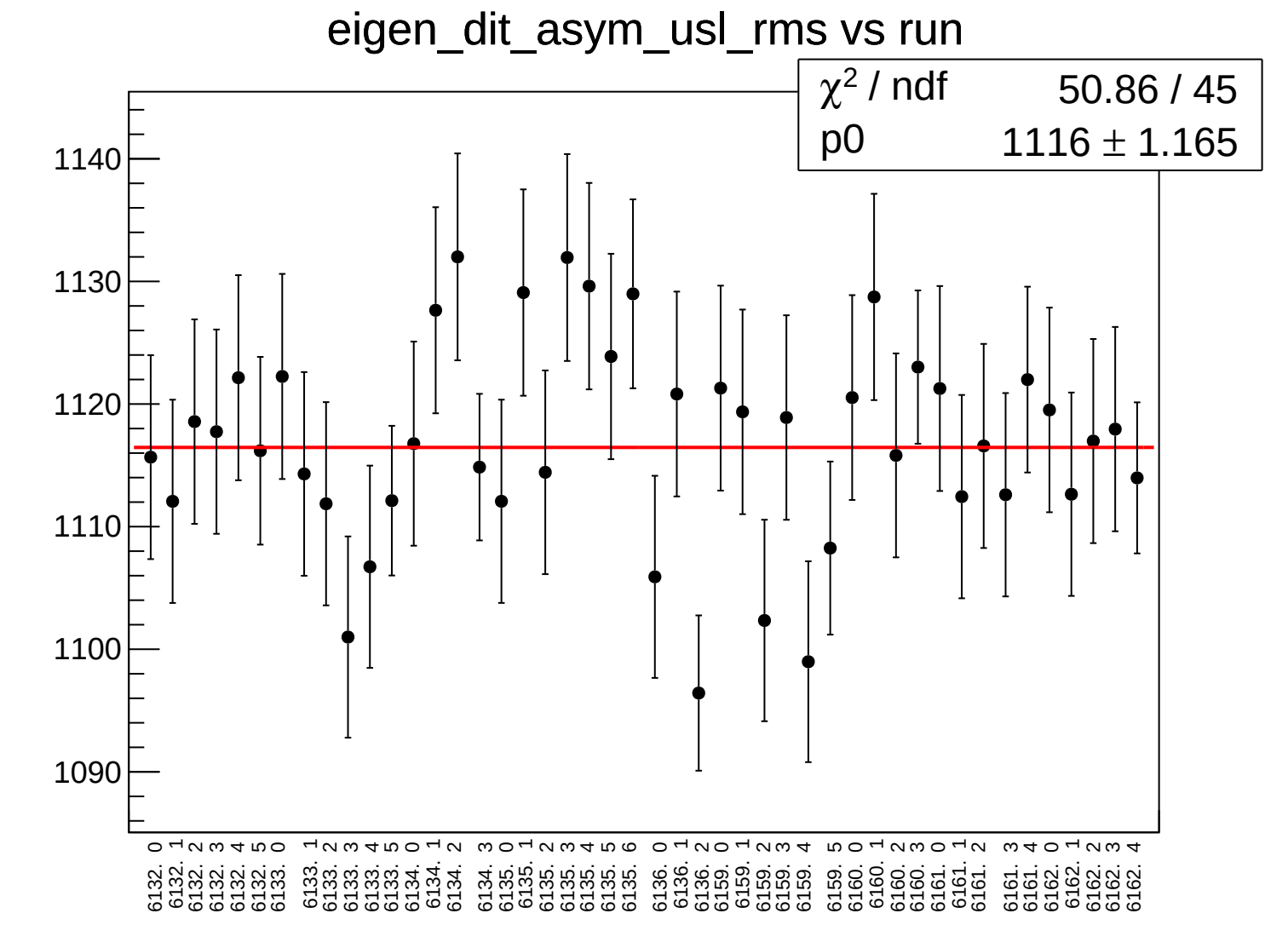
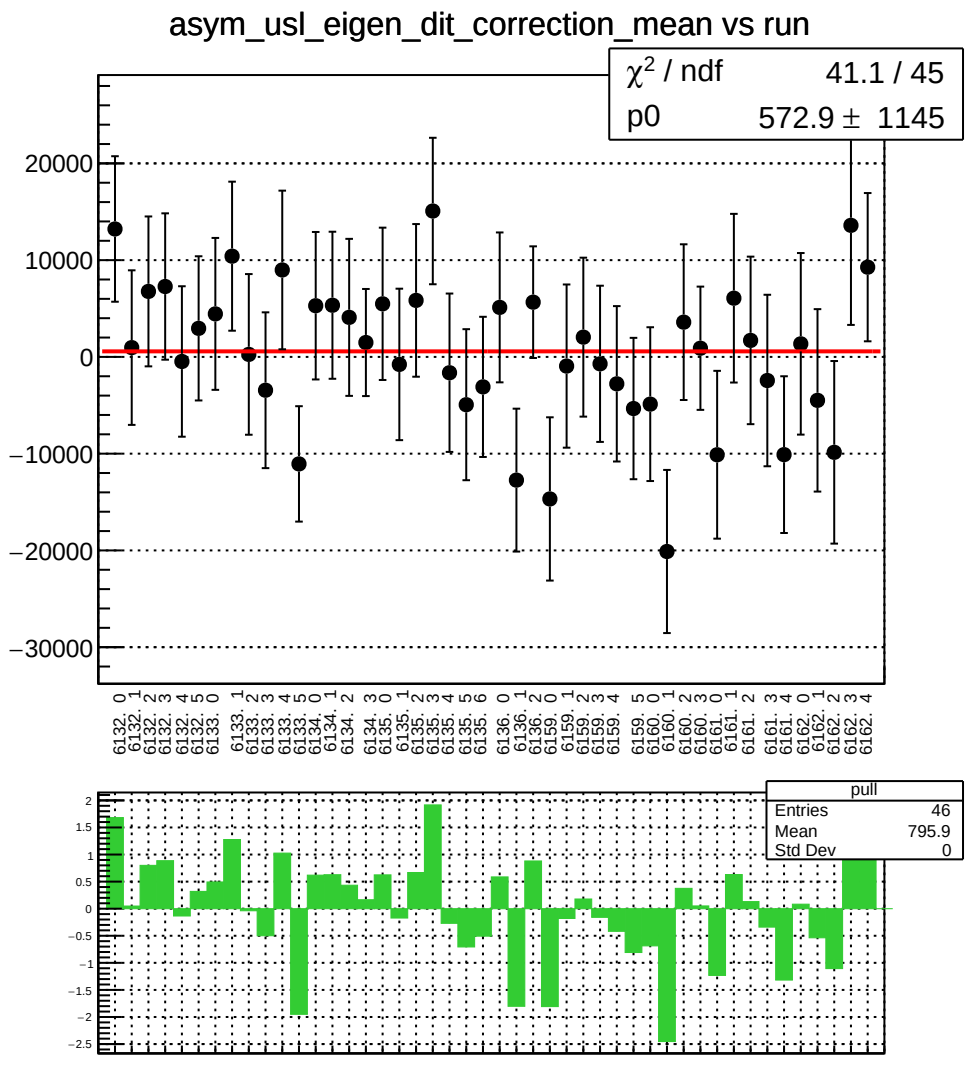
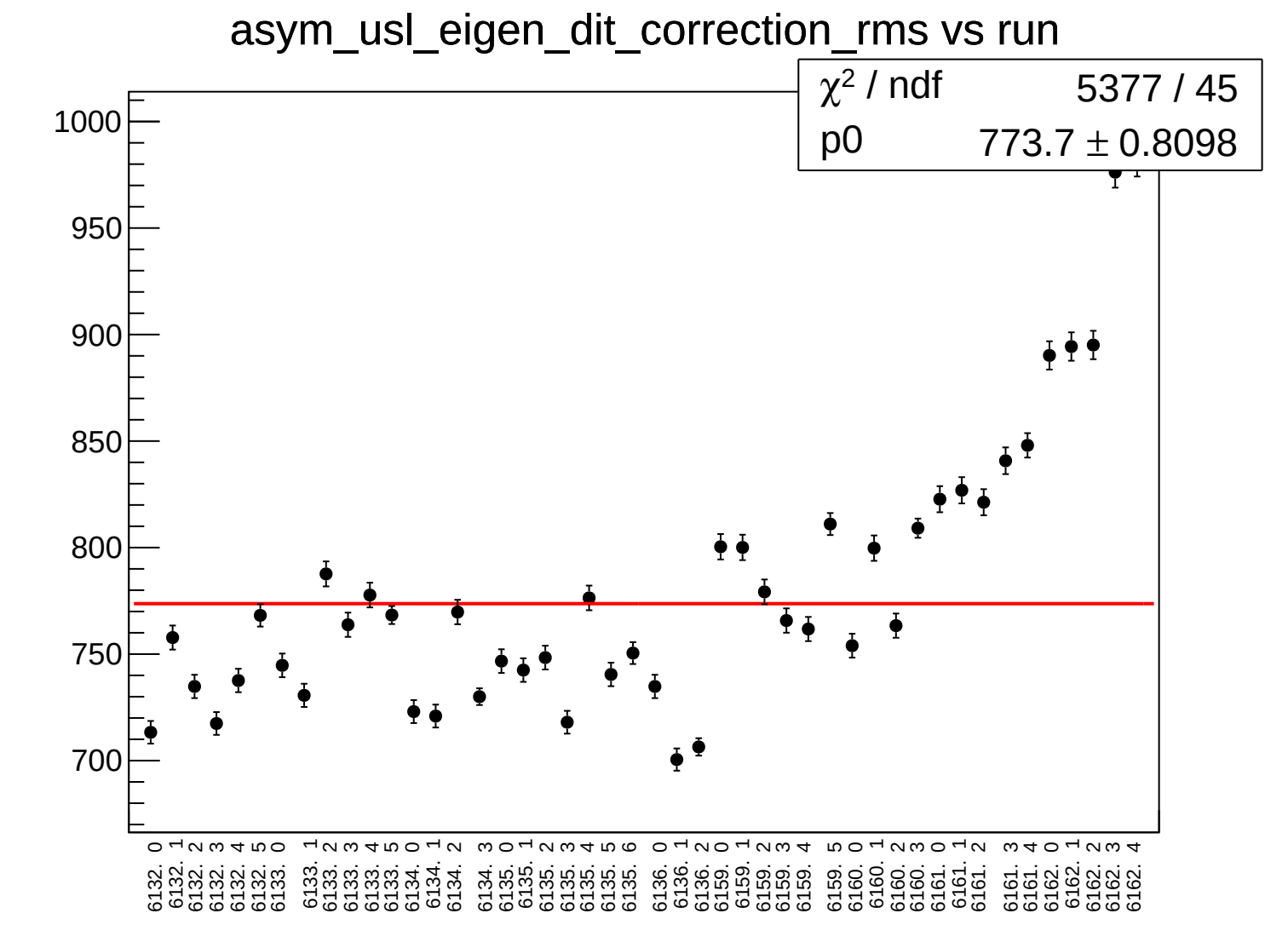
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

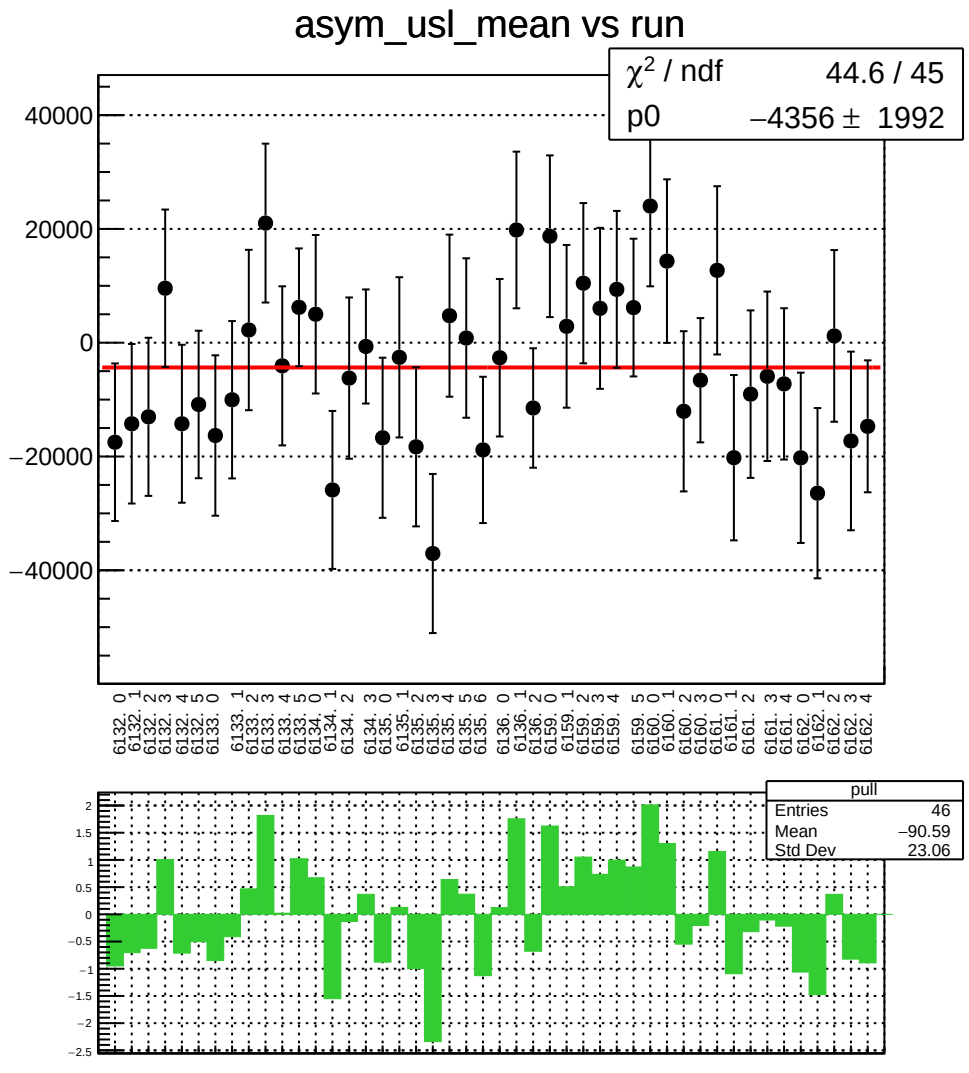

eigen_dit_asym_usl_mean vs run
χ² / ndf 39.26 / 45
p0 −4024 ± 1648
pull
Entries 46
Mean −798
Std Dev 0

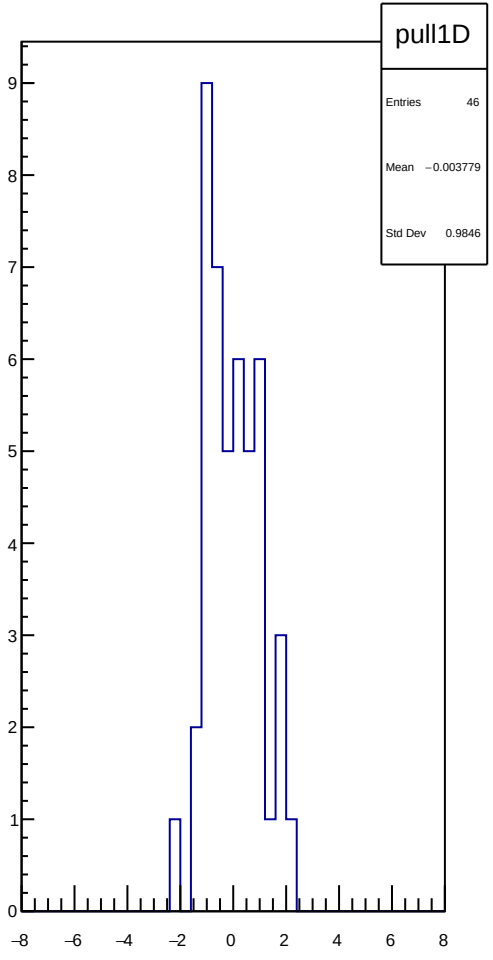

pull1D
Entries 46
Mean 0.002555
Std Dev 0.9239

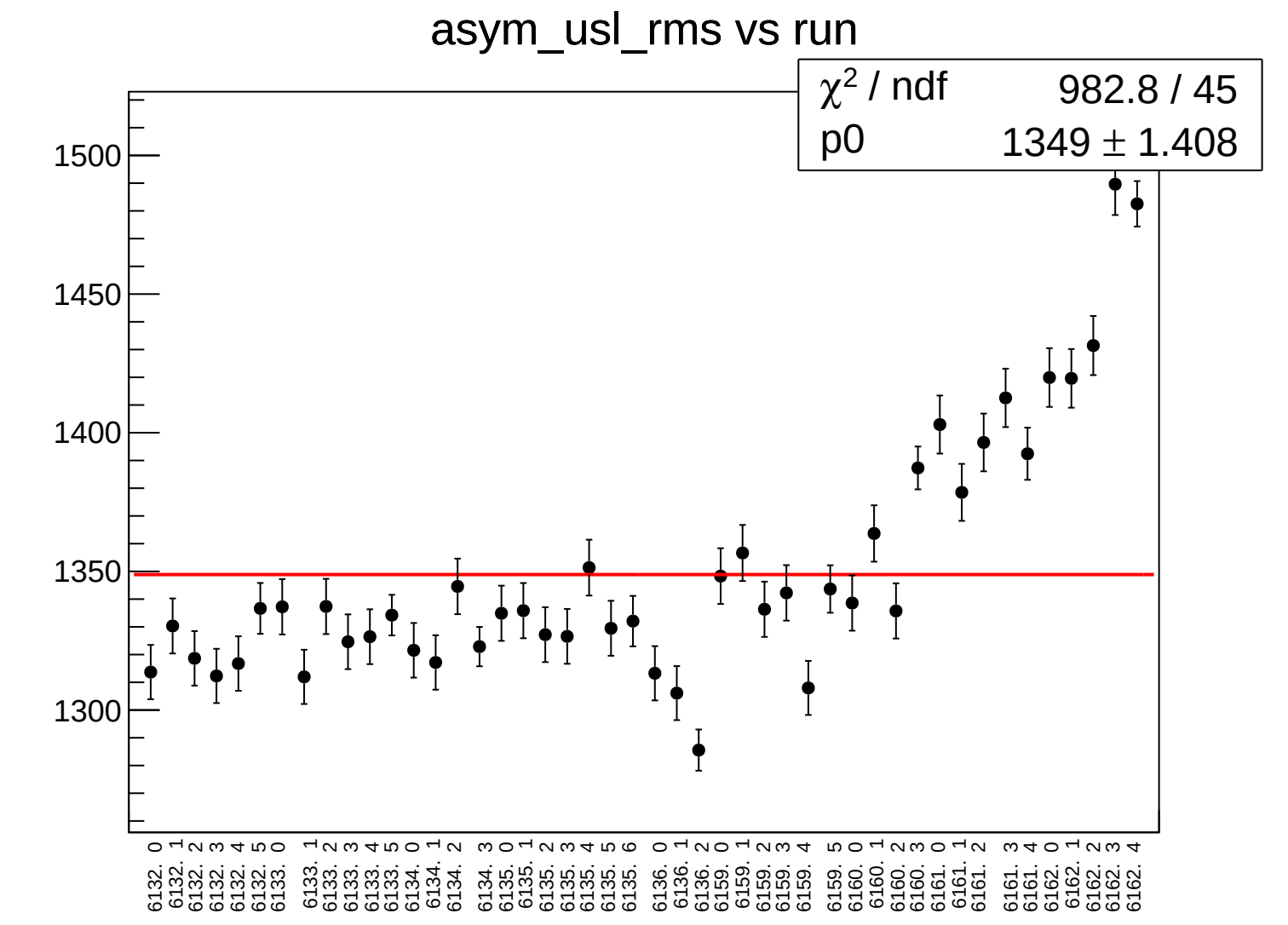

eigen_dit_asym_usl_rms vs run
χ² / ndf 50.86 / 45
p0 1116 ± 1.165
1140
1130
1120
1110
1100
1090
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

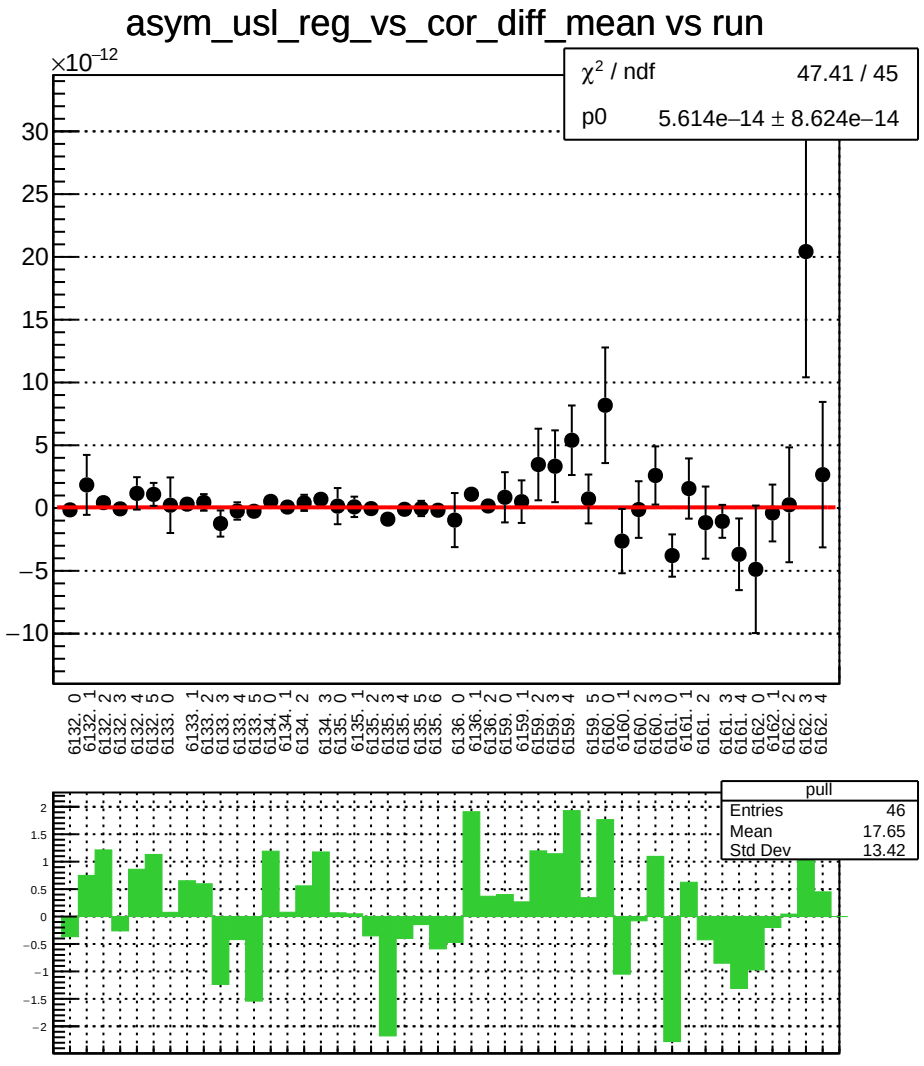

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 41.1 / 45
p0 572.9 ± 1145
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 795.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.004856
Std Dev 0.9452
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

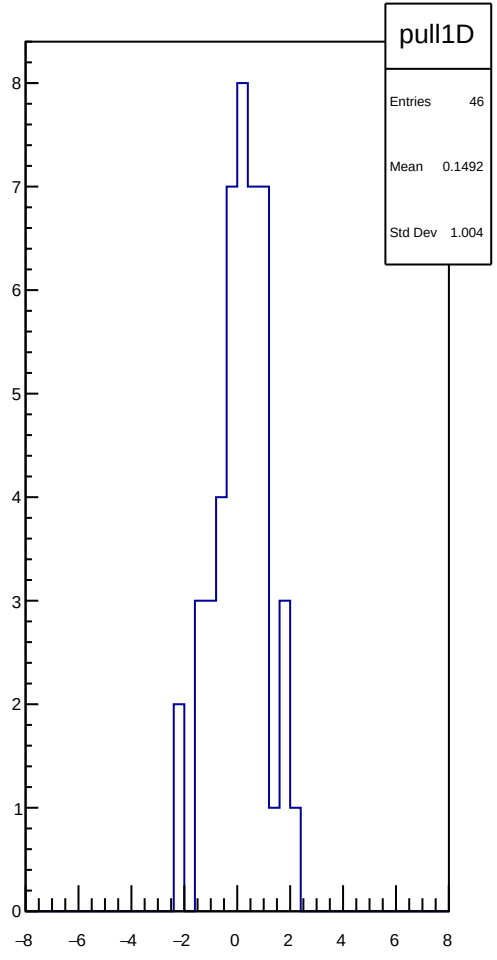

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 5377 / 45
p0 773.7 ± 0.8098
1000
950
900
850
800
750
700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

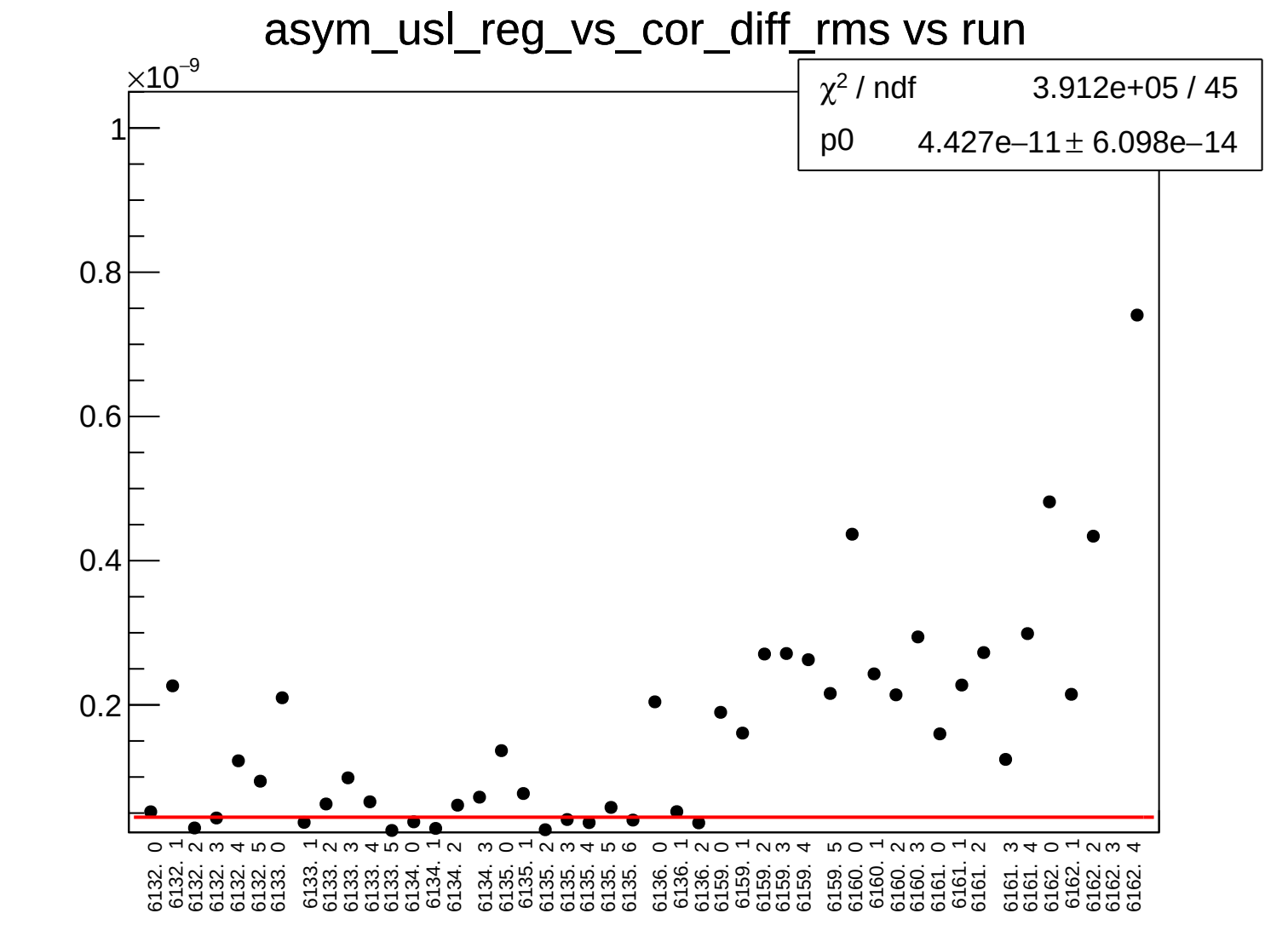

asym_usl_mean vs run
χ^2 / ndf 44.6 / 45
p0 −4356 ± 1992
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −90.59
Std Dev 23.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

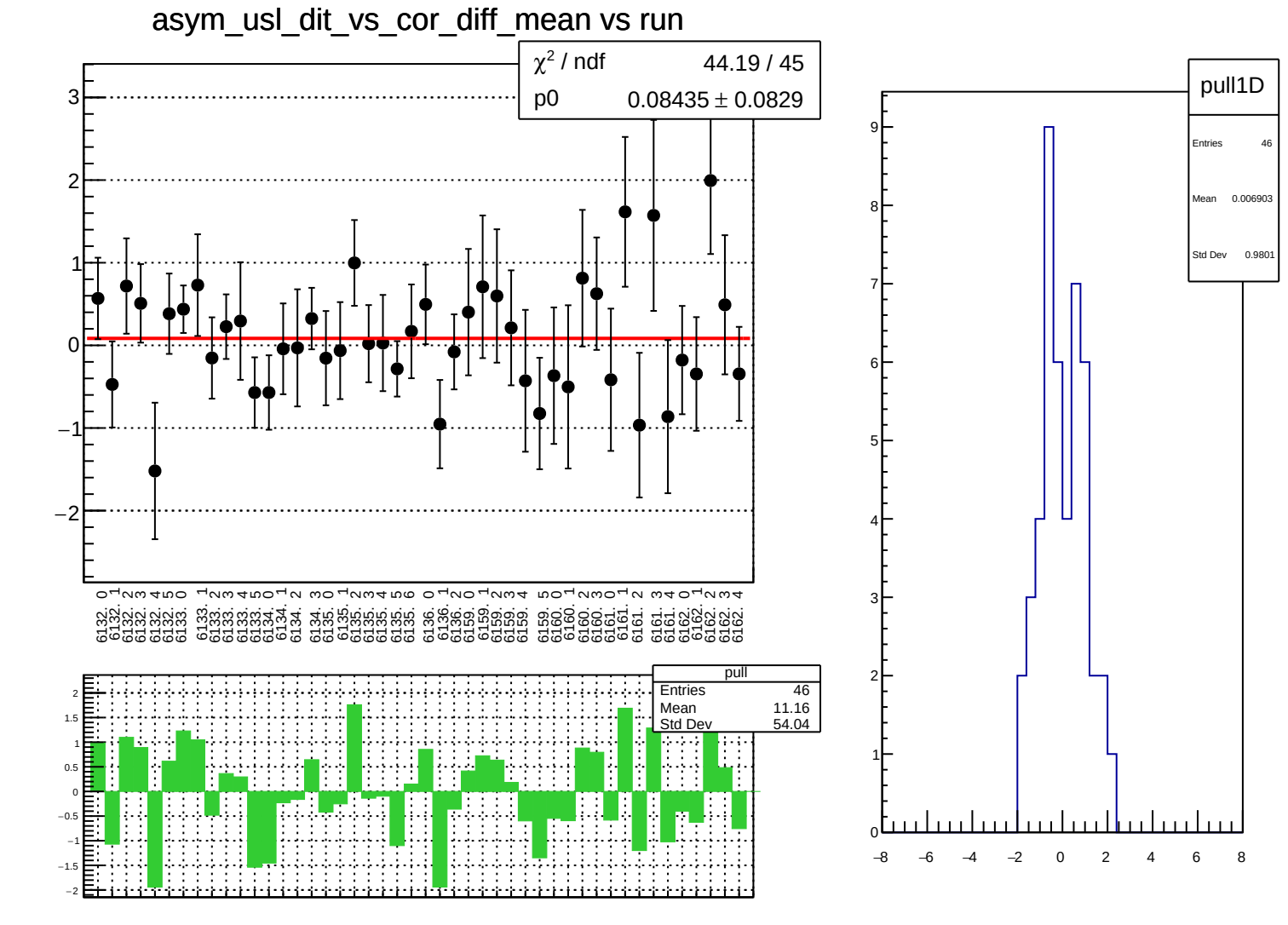

pull1D
Entries 46
Mean −0.003779
Std Dev 0.9846
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

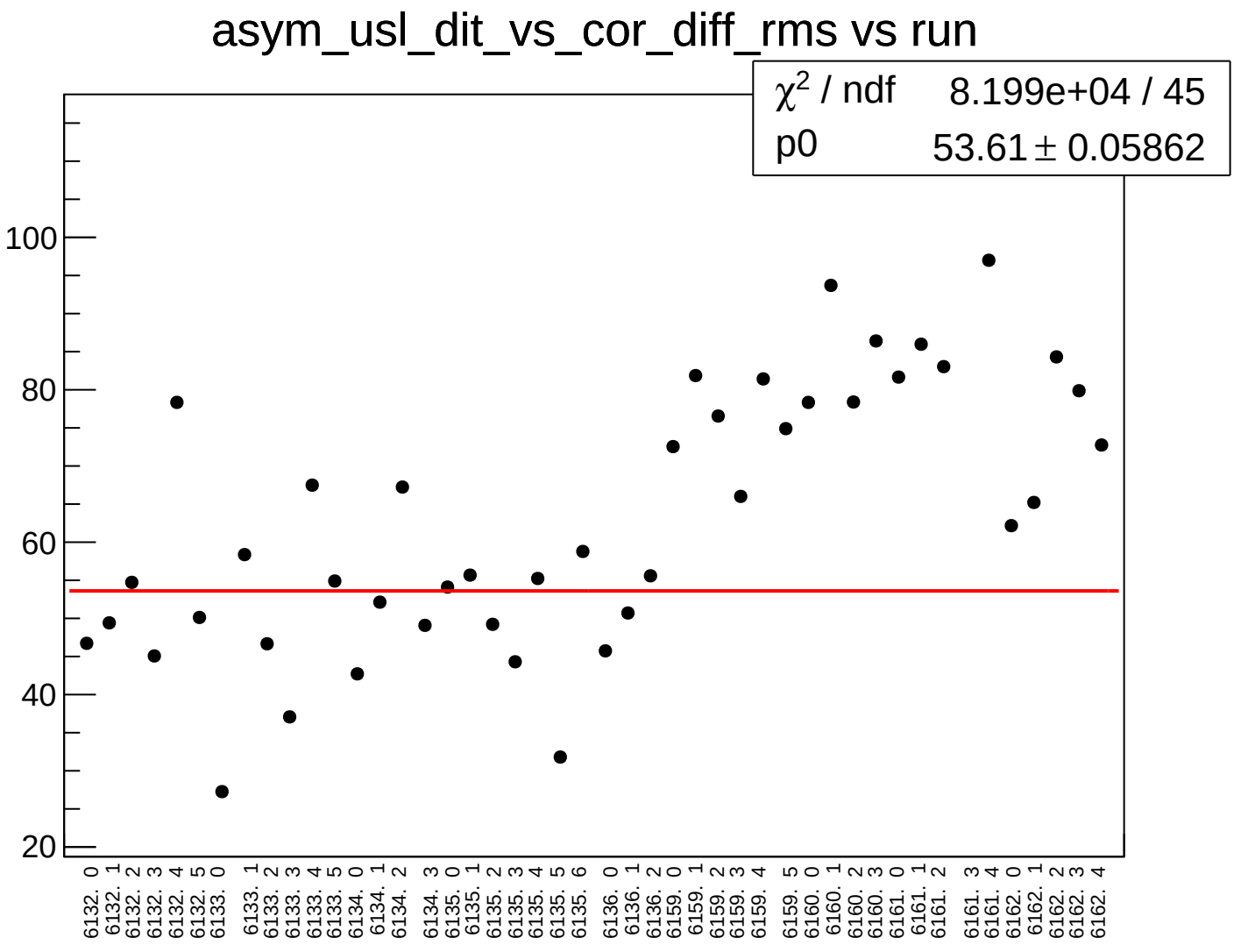

asym_usl_rms vs run
χ² / ndf 982.8 / 45
p0 1349 ± 1.408
1500
1450
1400
1350
1300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

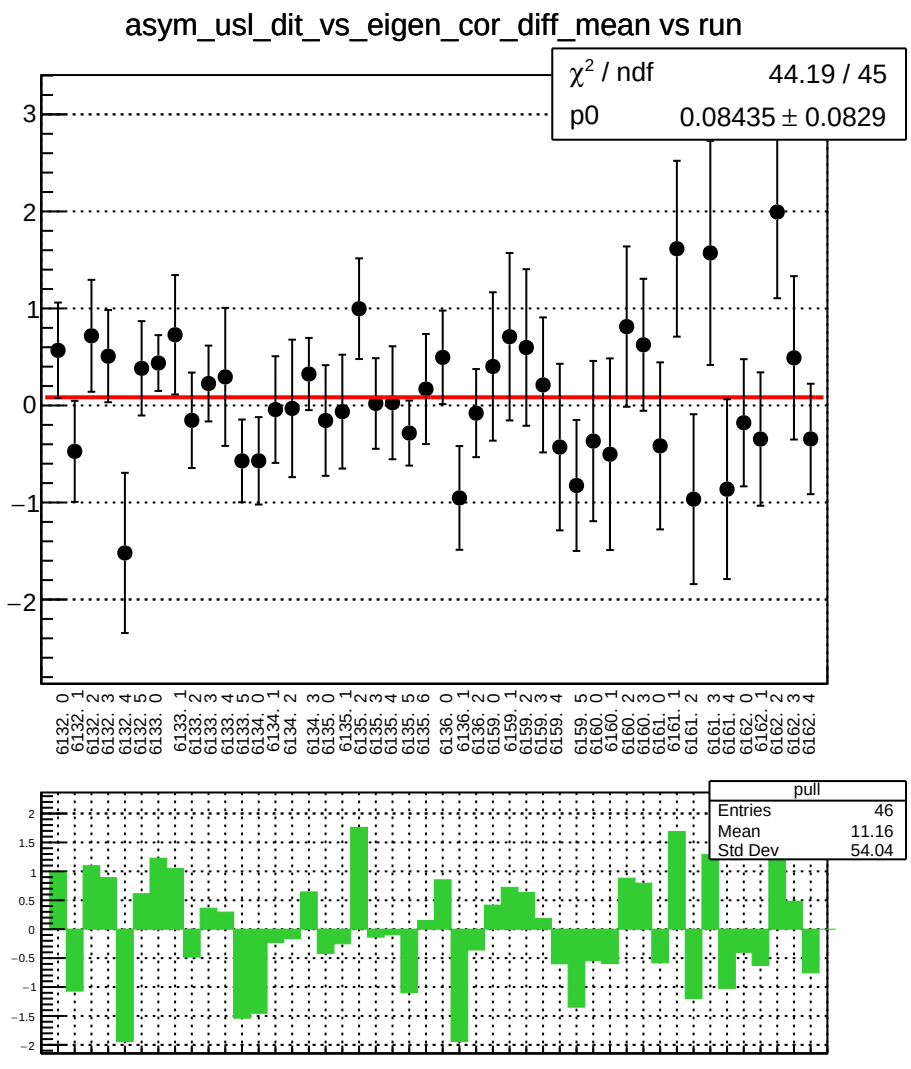

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 47.41 / 45
p0 5.614e−14 ± 8.624e−14
pull
Entries 46
Mean 17.65
Std Dev 13.42

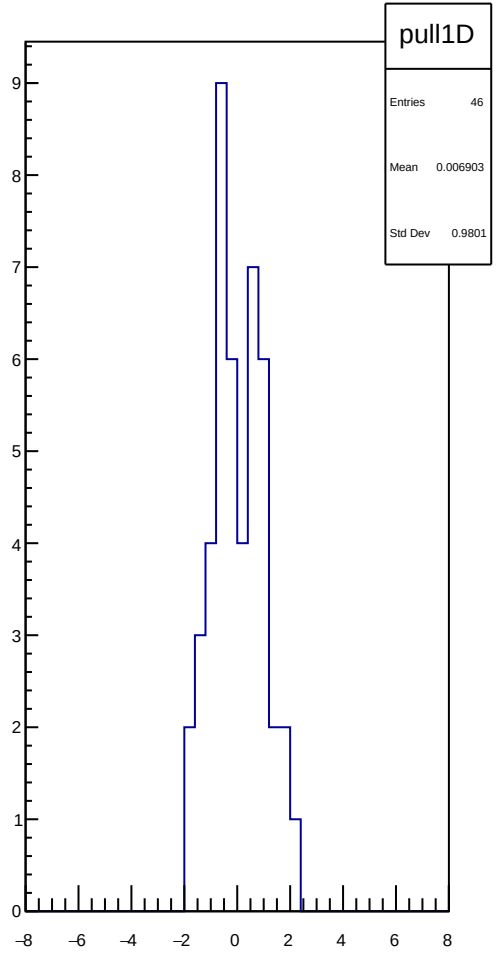

pull1D
Entries 46
Mean 0.1492
Std Dev 1.004

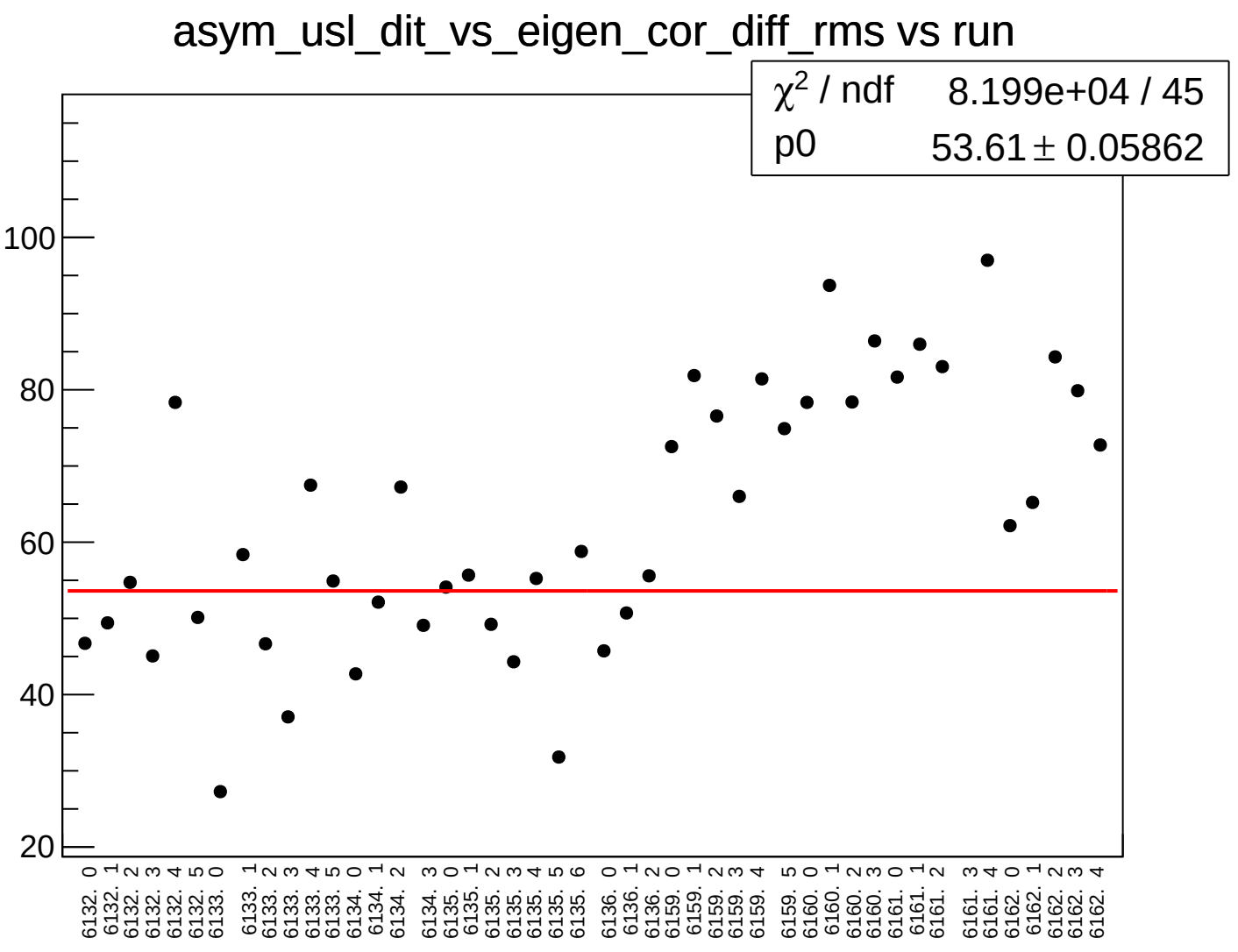

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.912e+05 / 45
p0 4.427e−11 ± 6.098e−14
1
0.8
0.6
0.4
0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

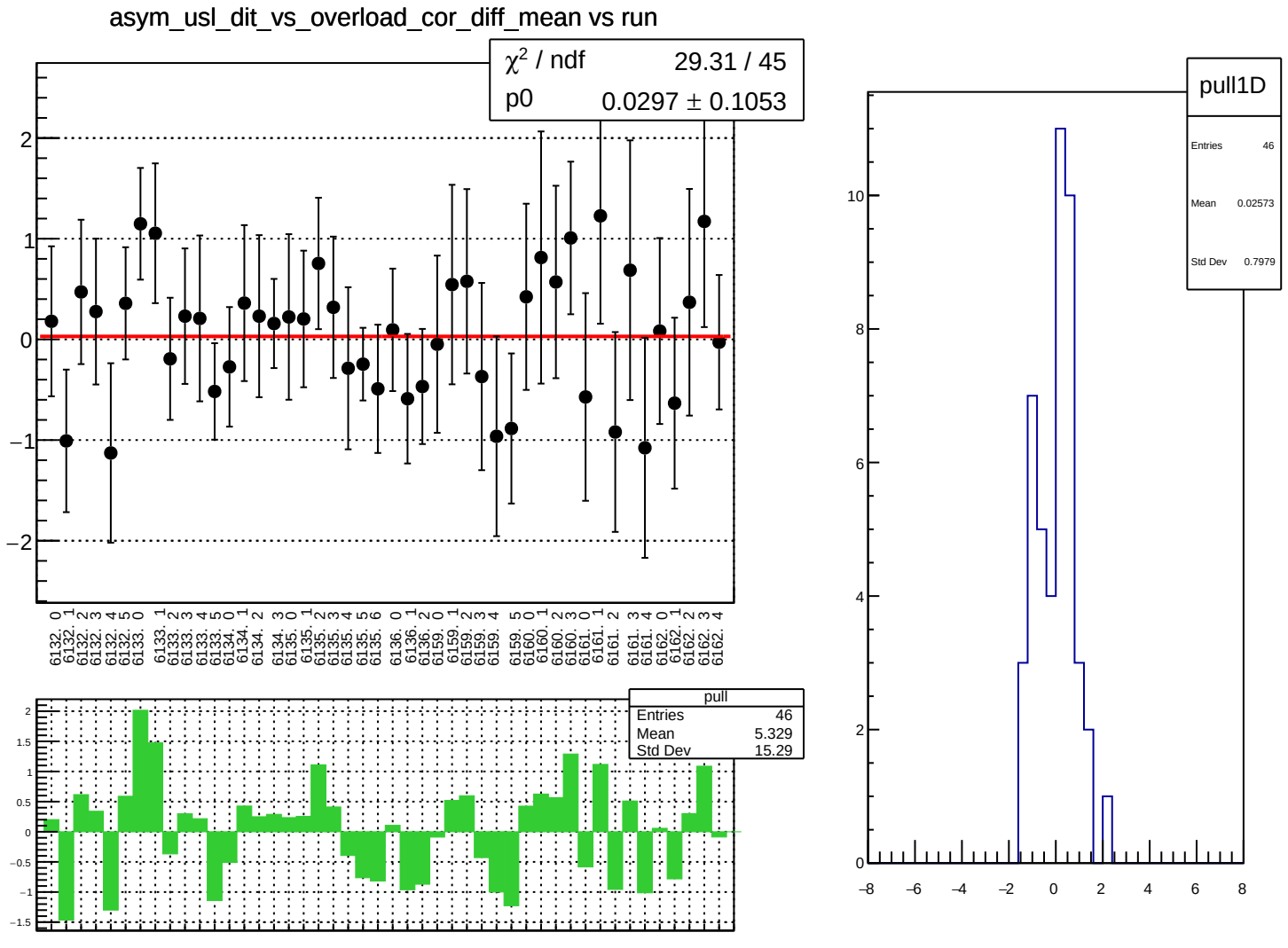

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 44.19 / 45
p0 0.08435 ± 0.0829
pull
Entries 46
Mean 11.16
Std Dev 54.04
pull1D
Entries 46
Mean 0.006903
Std Dev 0.9801

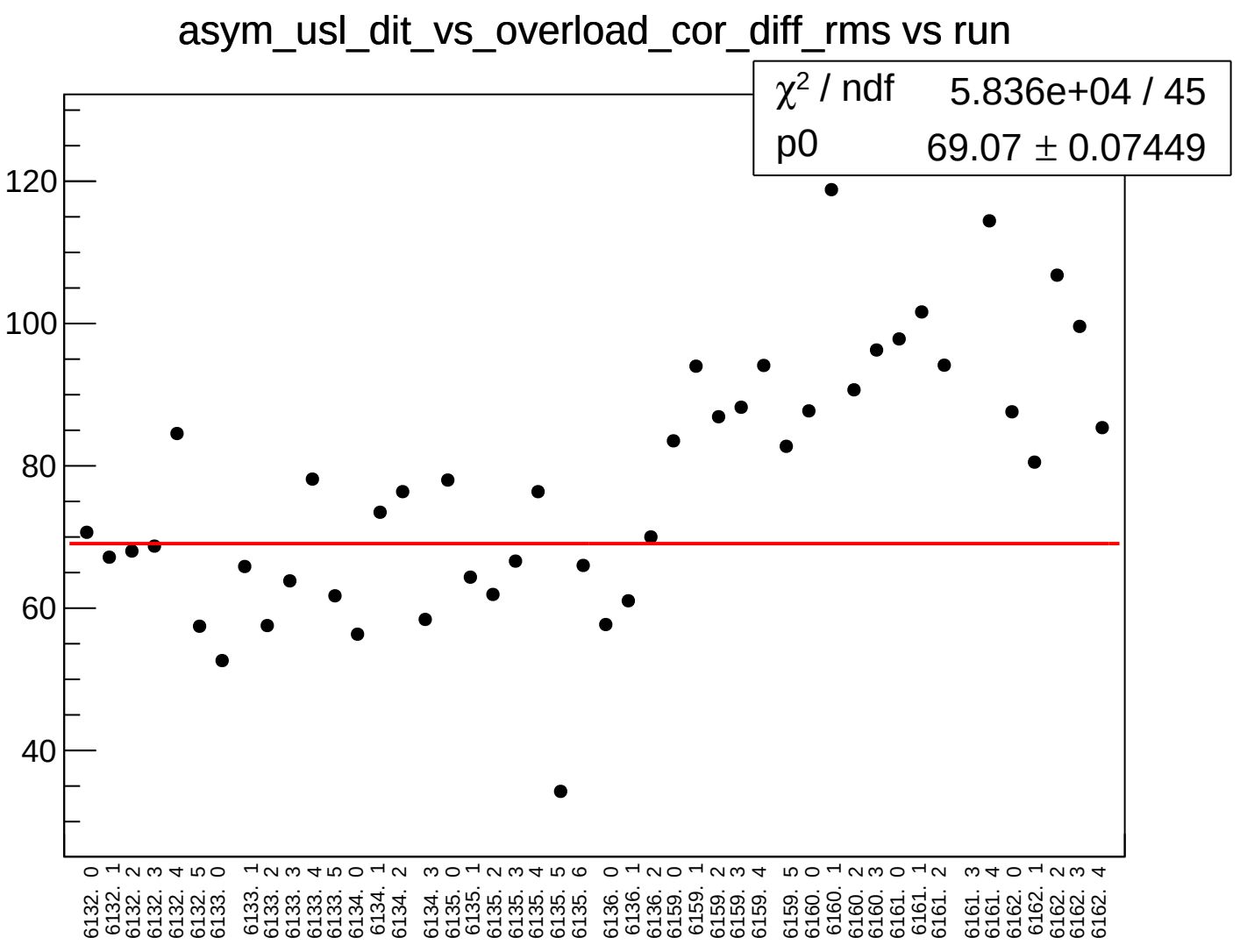

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 8.199e+04 / 45
p0 53.61 ± 0.05862
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.19 / 45
p0 0.08435 ± 0.0829
pull
Entries 46
Mean 11.16
Std Dev 54.04


pull1D
Entries 46
Mean 0.006903
Std Dev 0.9801


asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.199e+04 / 45
p0 53.61 ± 0.05862
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 29.31 / 45
p0 0.0297 ± 0.1053
pull
Entries 46
Mean 5.329
Std Dev 15.29
pull1D
Entries 46
Mean 0.02573
Std Dev 0.7979


asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.836e+04 / 45
p0 69.07 ± 0.07449
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
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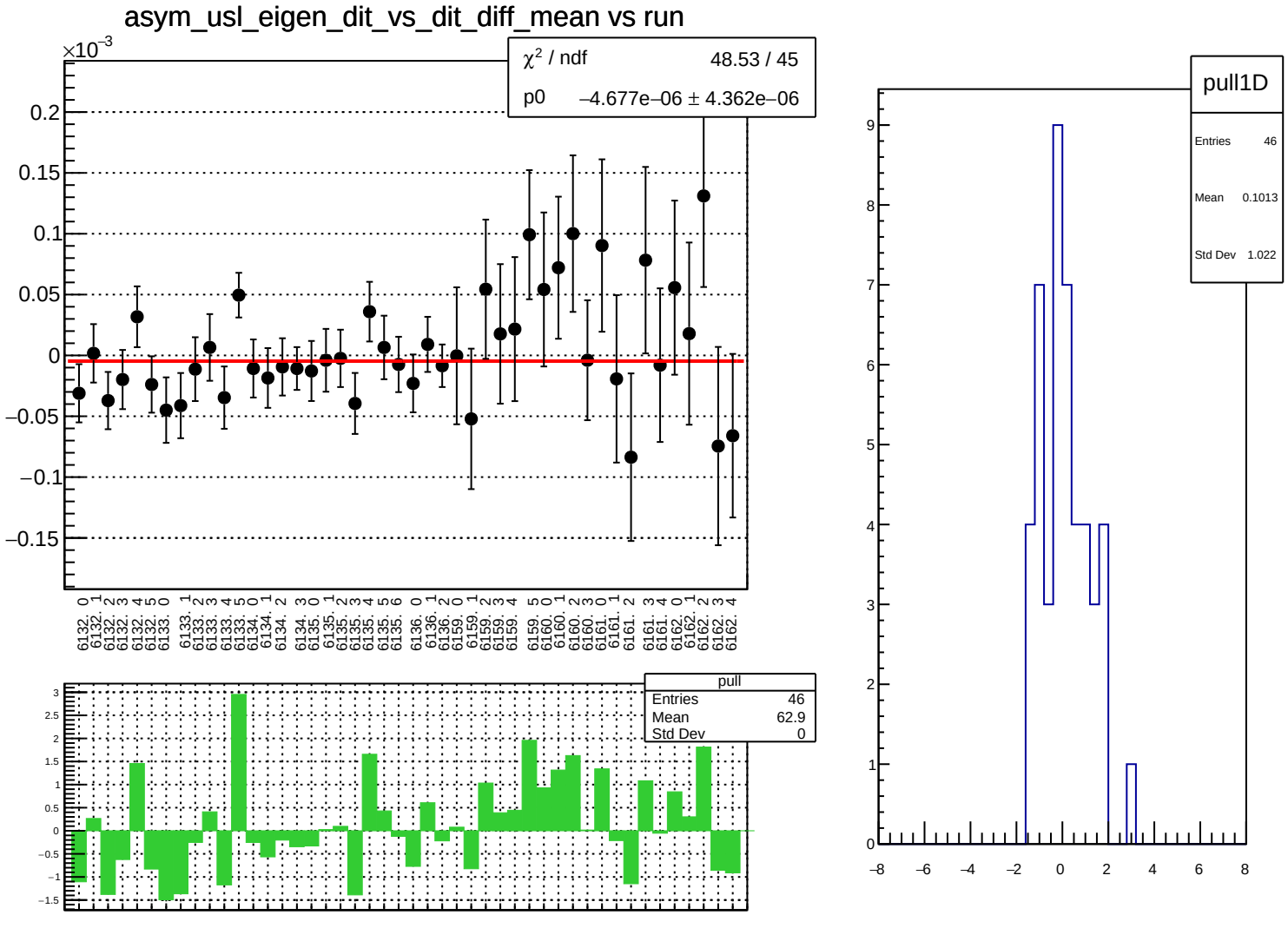
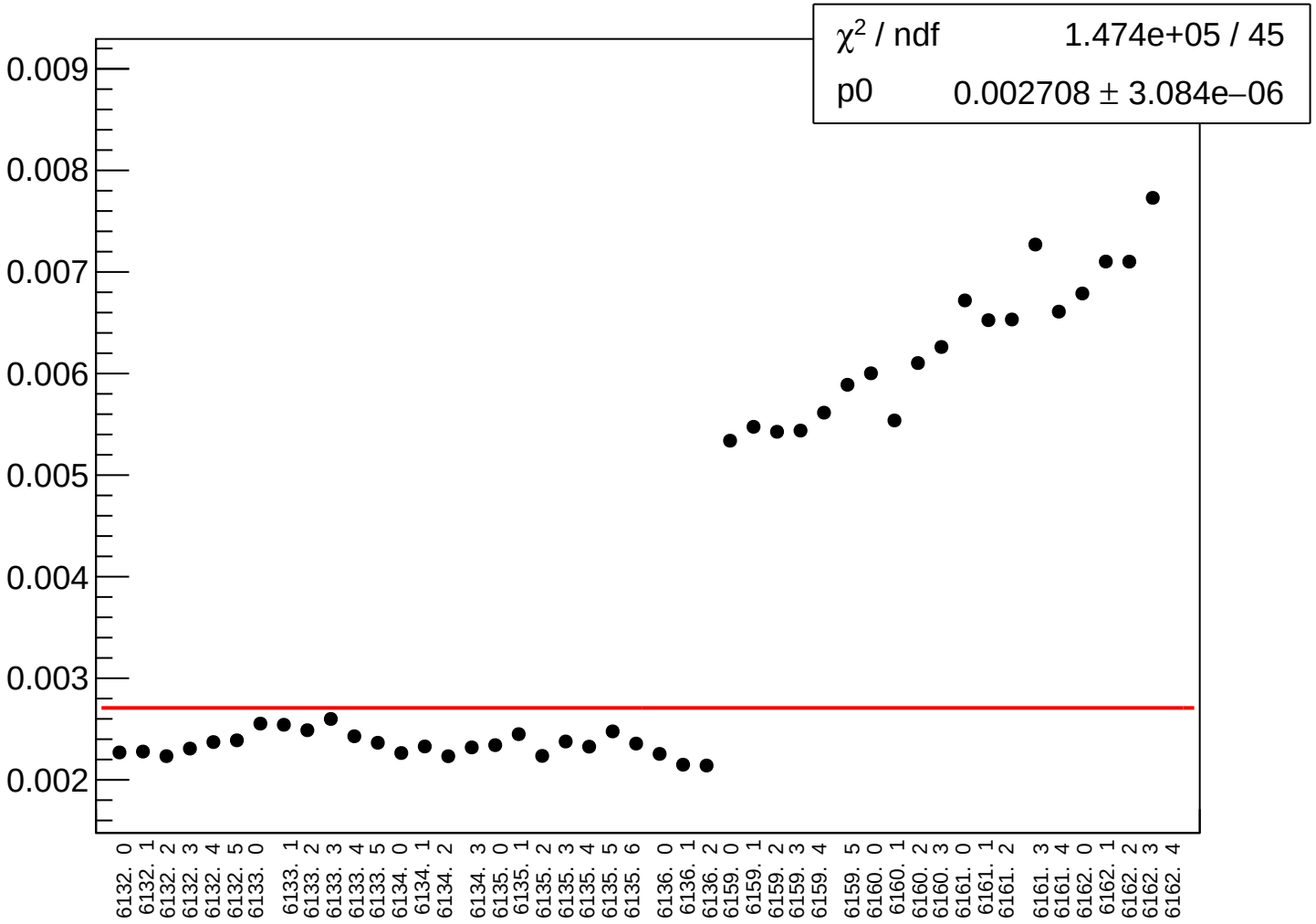
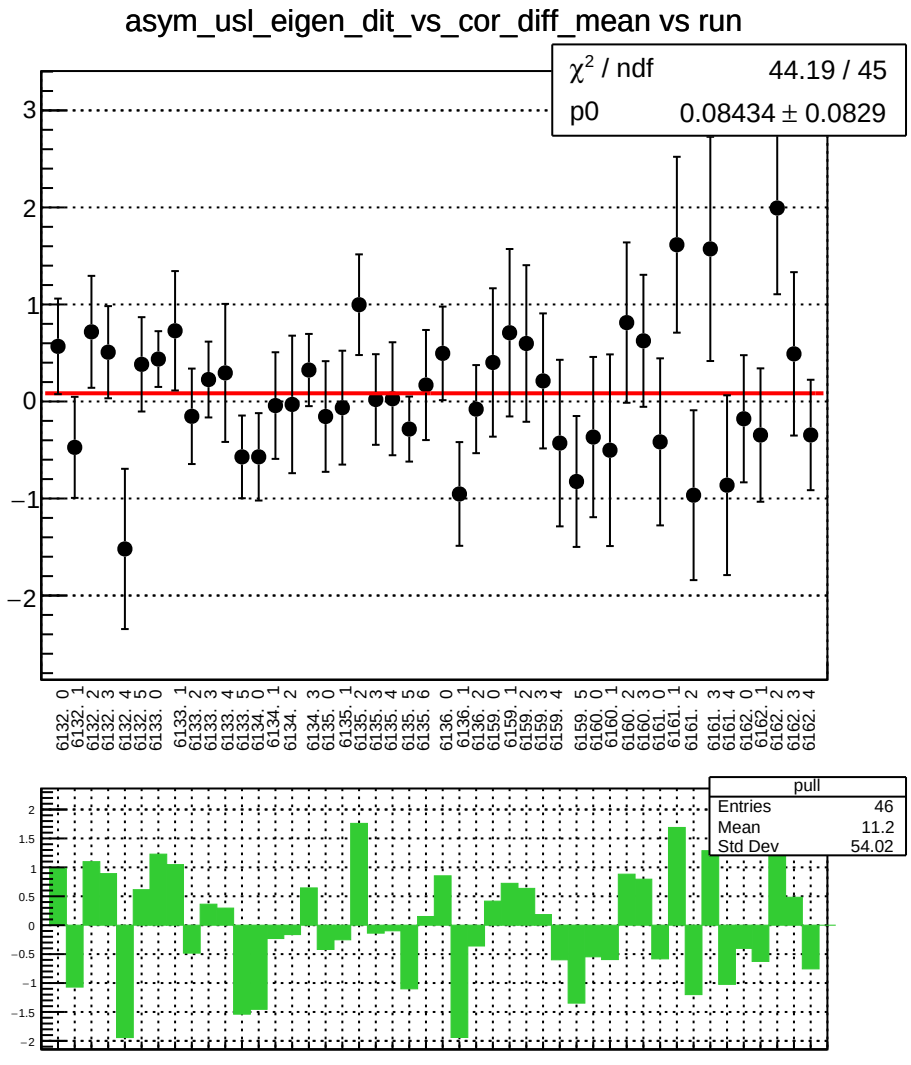
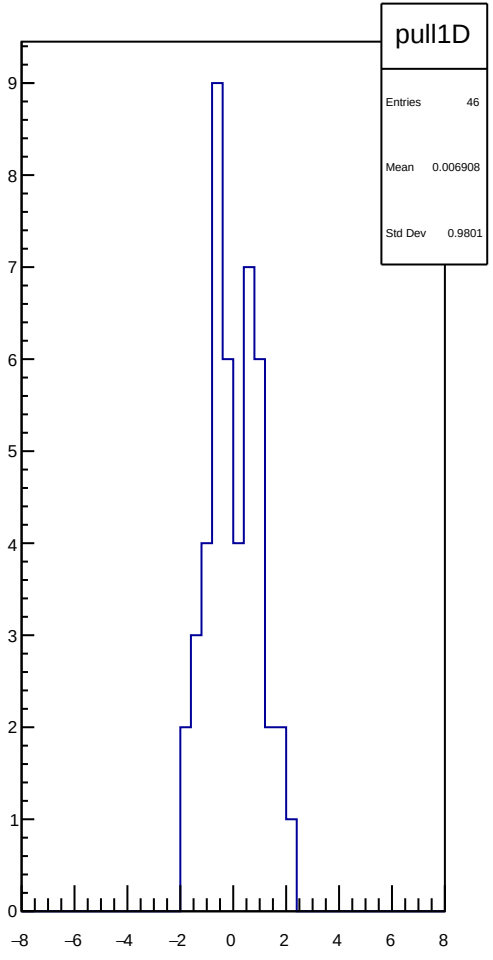
6162. 4

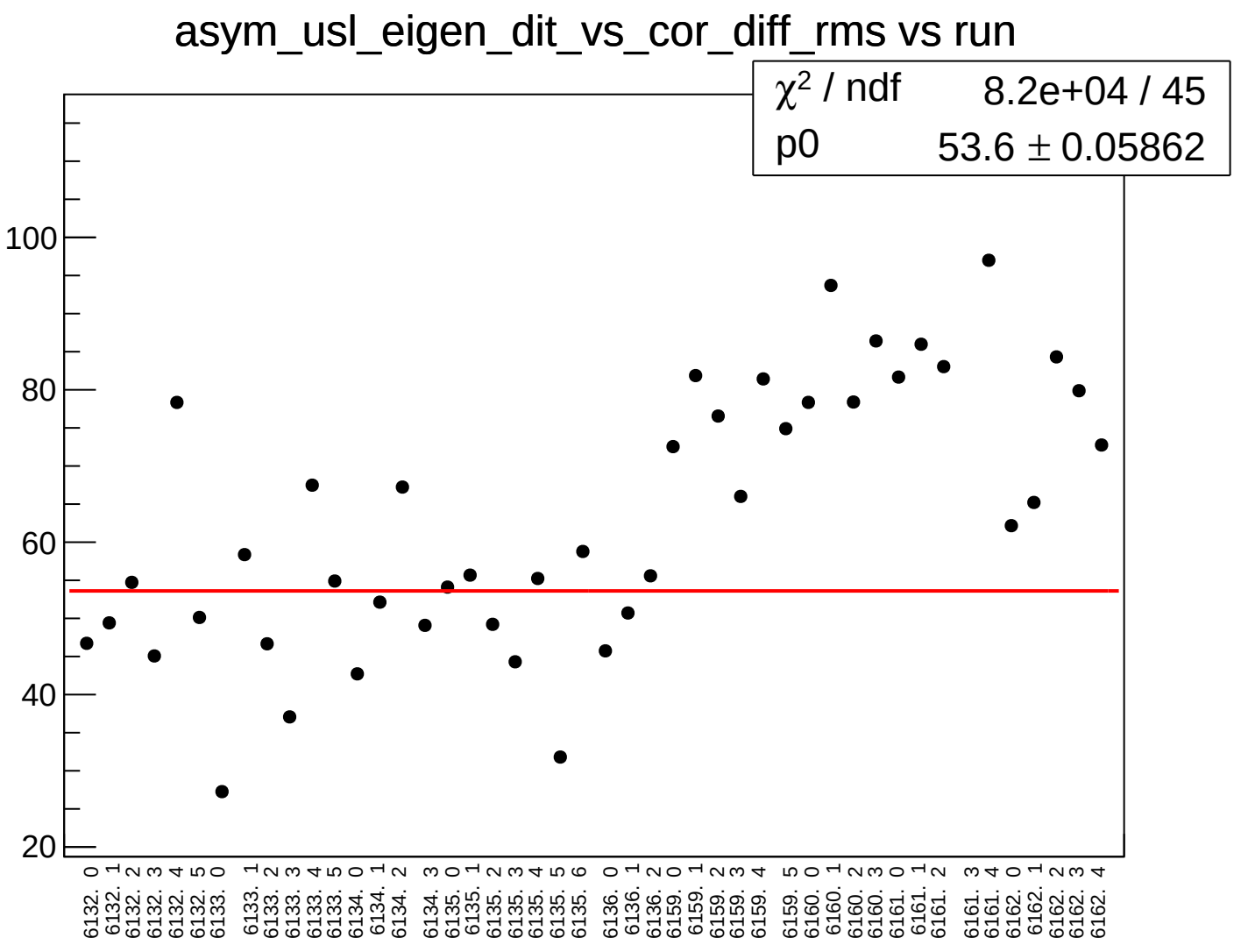

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 48.53 / 45
p0 −4.677e−06 ± 4.362e−06
pull
Entries 46
Mean 62.9
Std Dev 0
pull1D
Entries 46
Mean 0.1013
Std Dev 1.022

asym_usl_eigen_dit_vs_dit_diff_rms vs run




asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 44.19 / 45
p0 0.08434 ± 0.0829
pull
Entries 46
Mean 11.2
Std Dev 54.02


pull1D
Entries 46
Mean 0.006908
Std Dev 0.9801


asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.2e+04 / 45
p0 53.6 ± 0.05862
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 1
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6136. 0
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6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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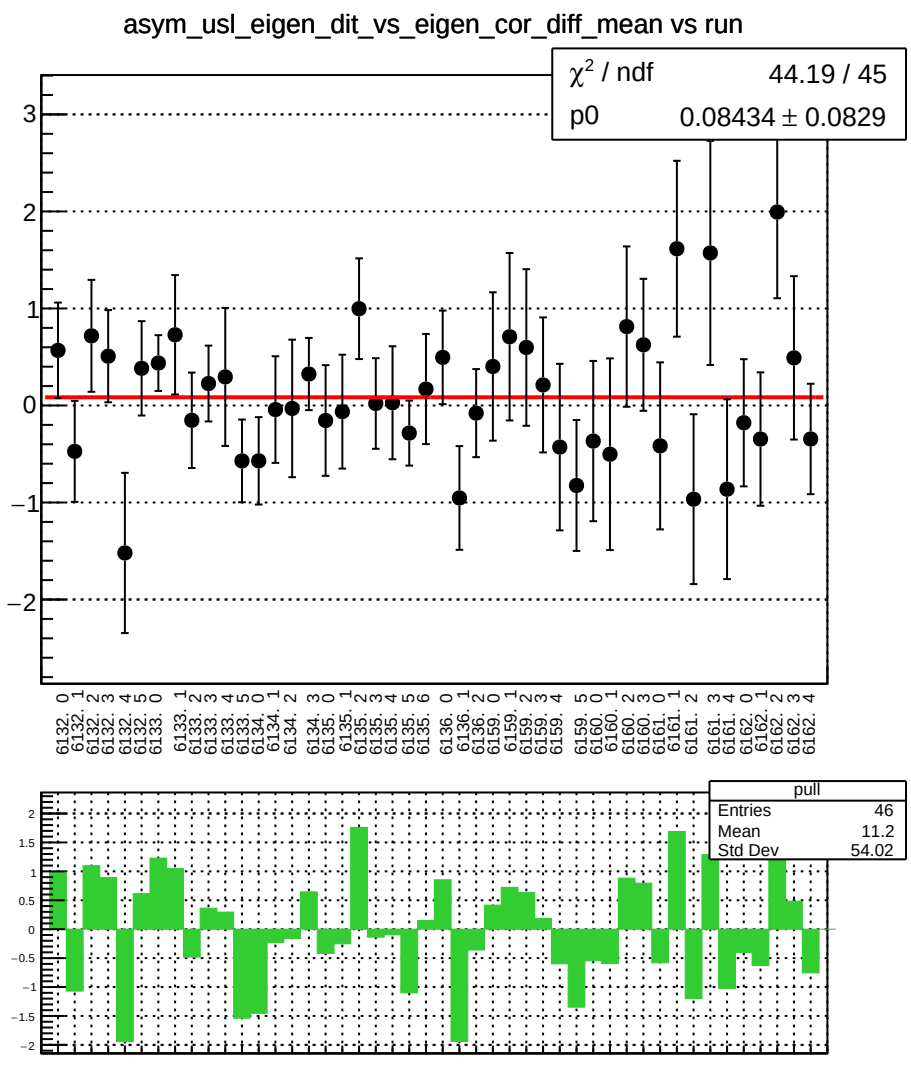
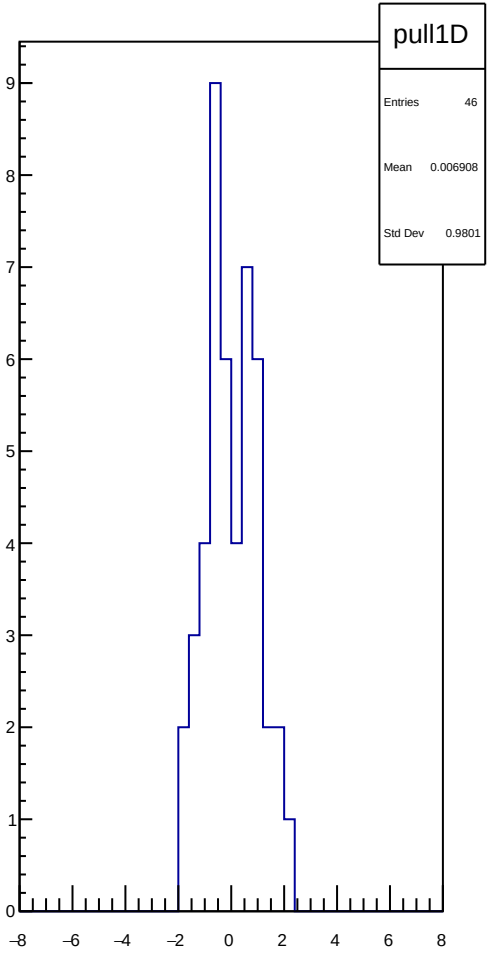
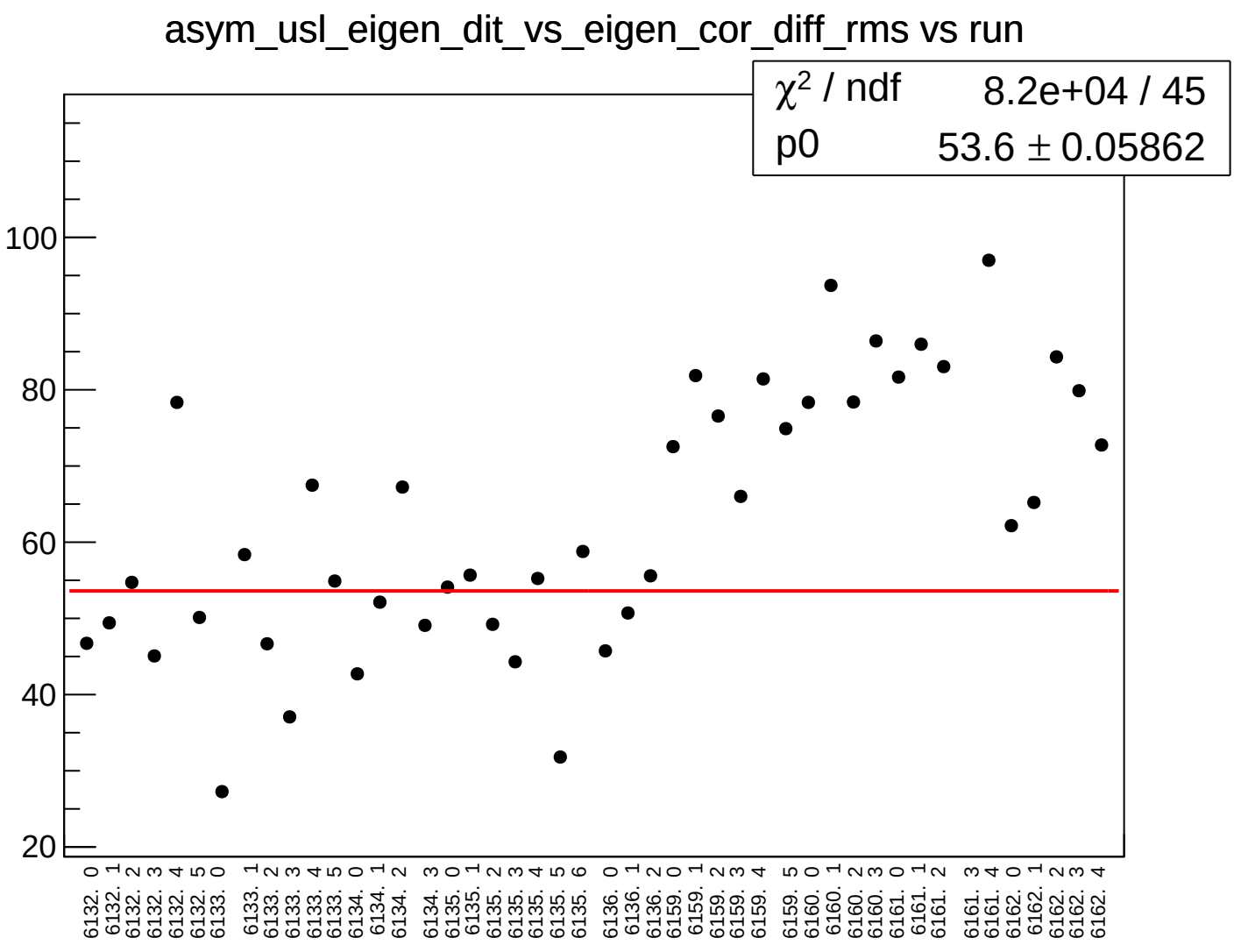
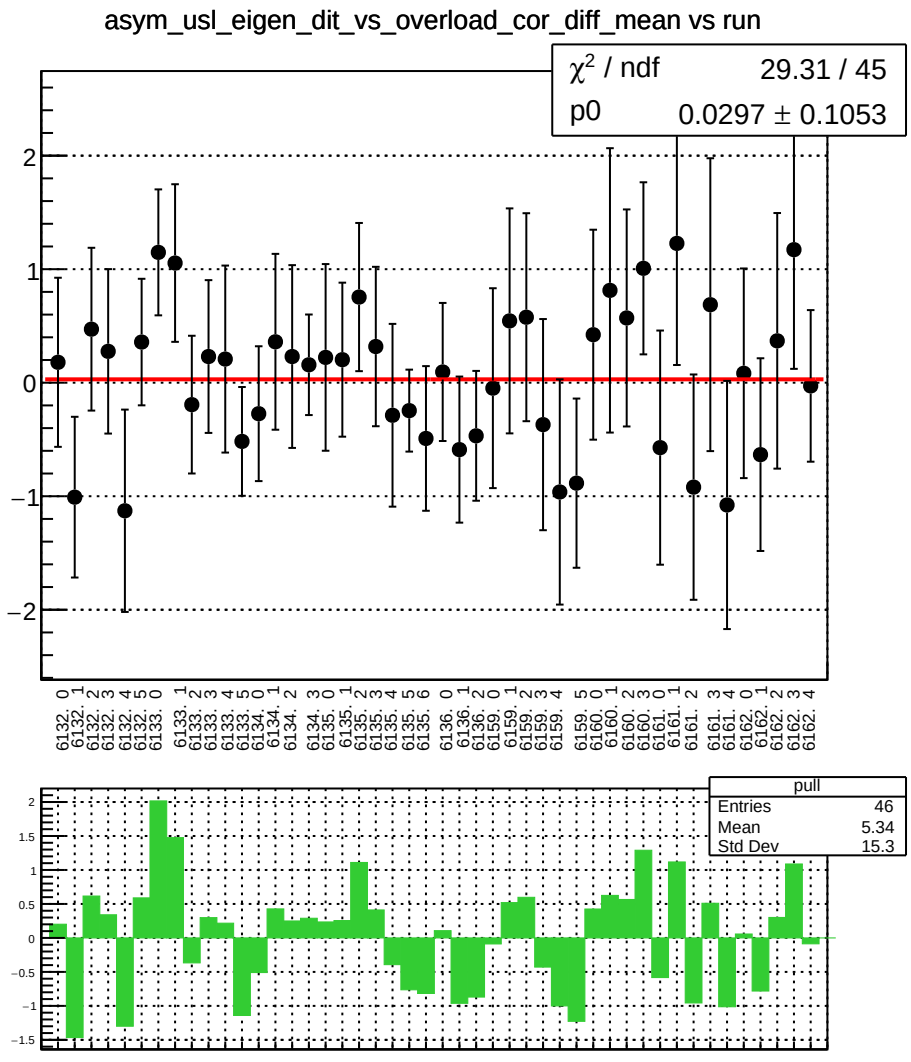
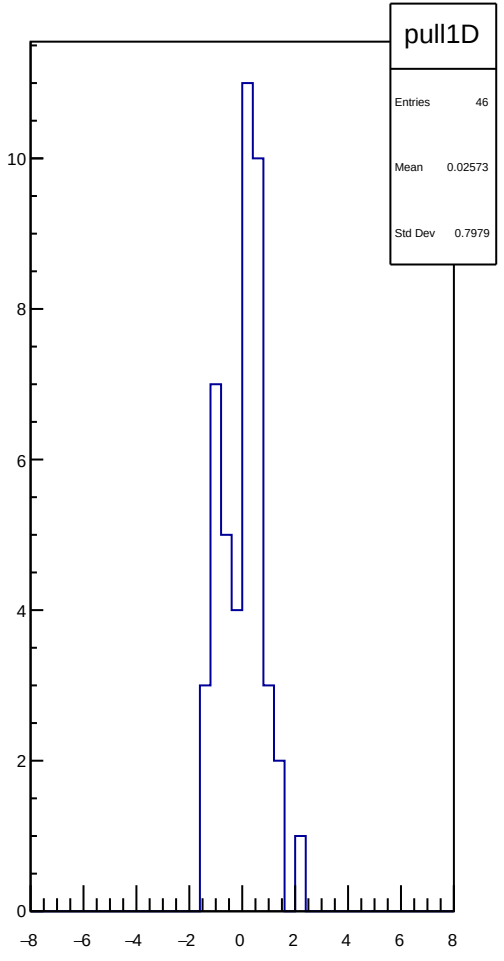
6162. 4

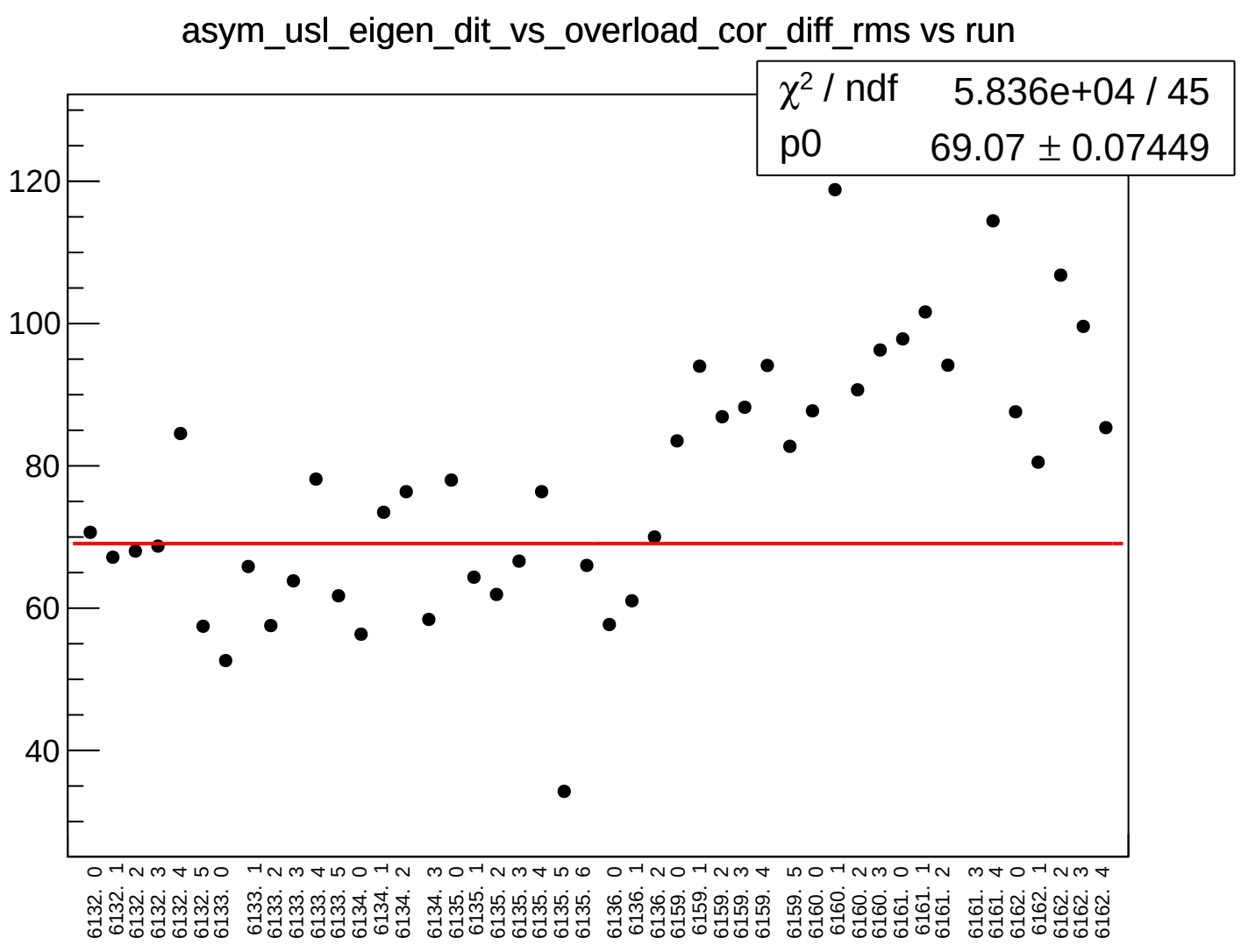

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.19 / 45
p0 0.08434 ± 0.0829
pull
Entries 46
Mean 11.2
Std Dev 54.02

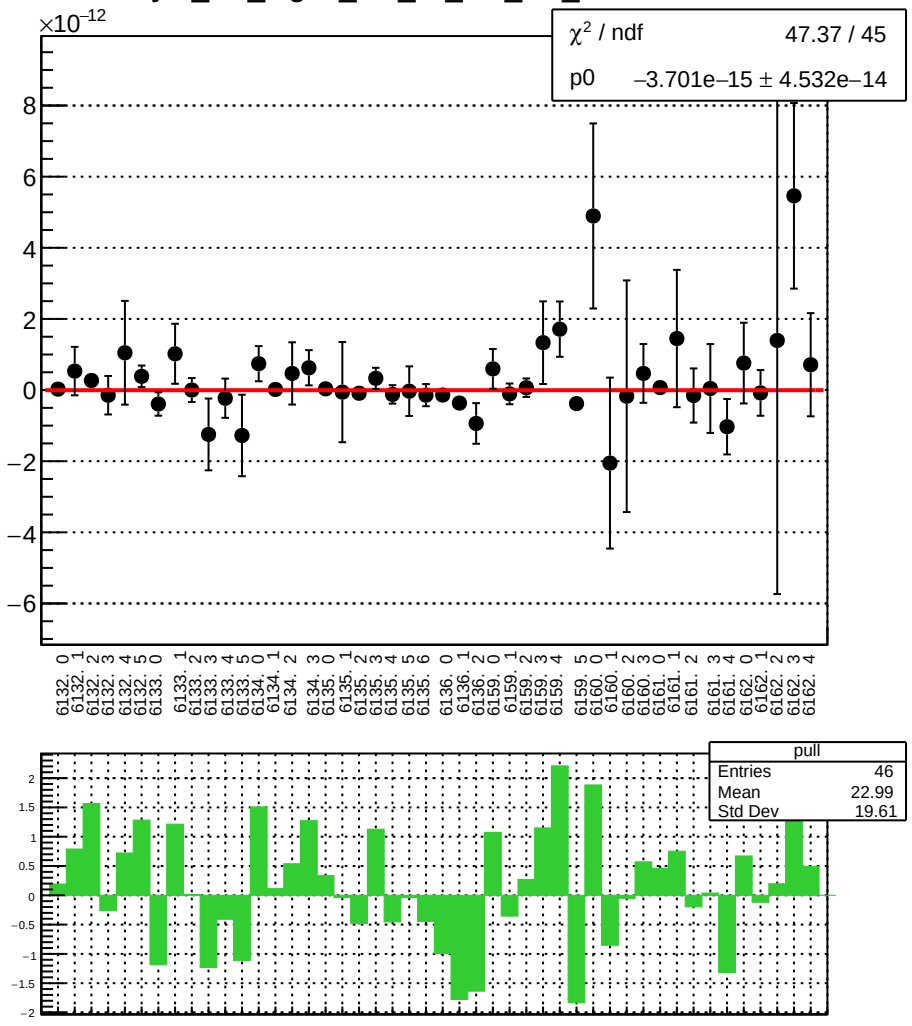

pull1D
Entries 46
Mean 0.006908
Std Dev 0.9801

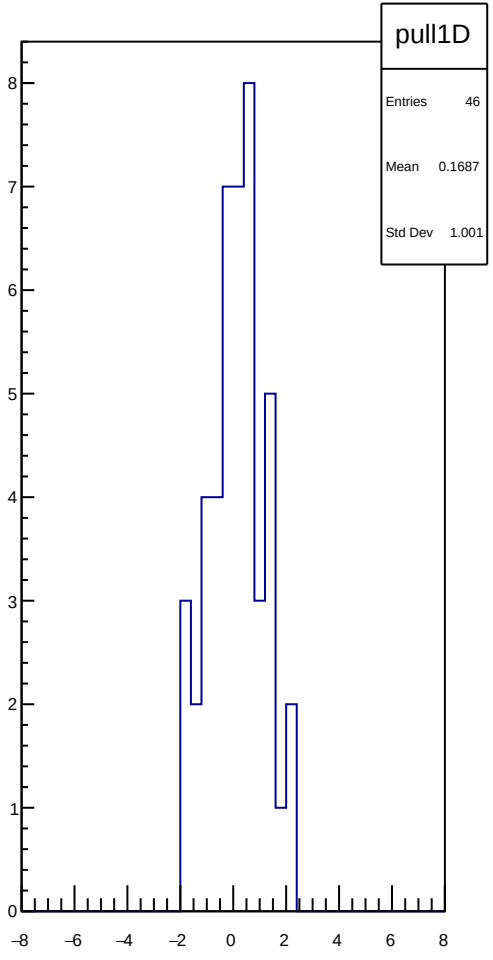

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.2e+04 / 45
p0 53.6 ± 0.05862
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

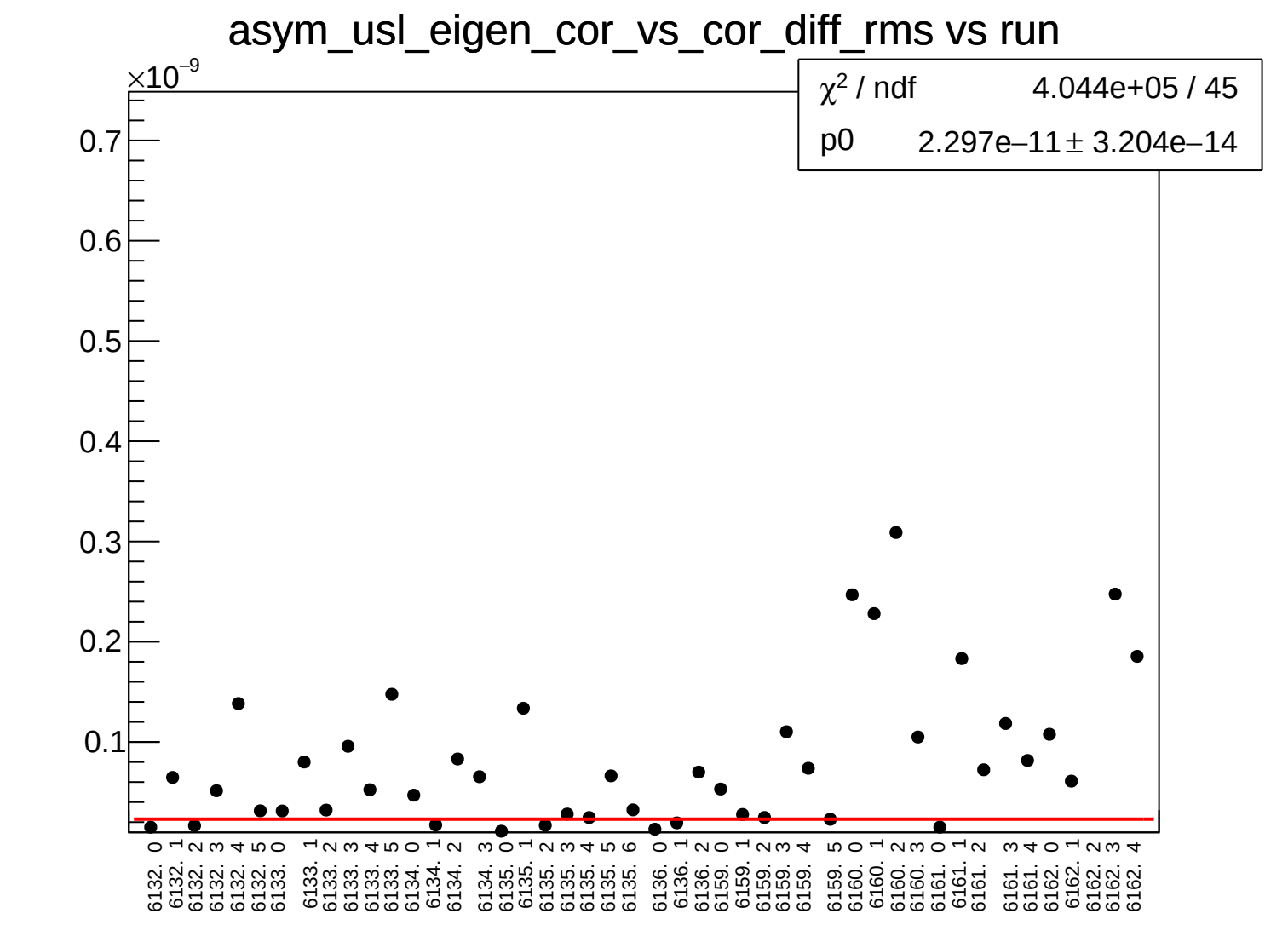

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 29.31 / 45
p0 0.0297 ± 0.1053
pull
Entries 46
Mean 5.34
Std Dev 15.3


pull1D
Entries 46
Mean 0.02573
Std Dev 0.7979

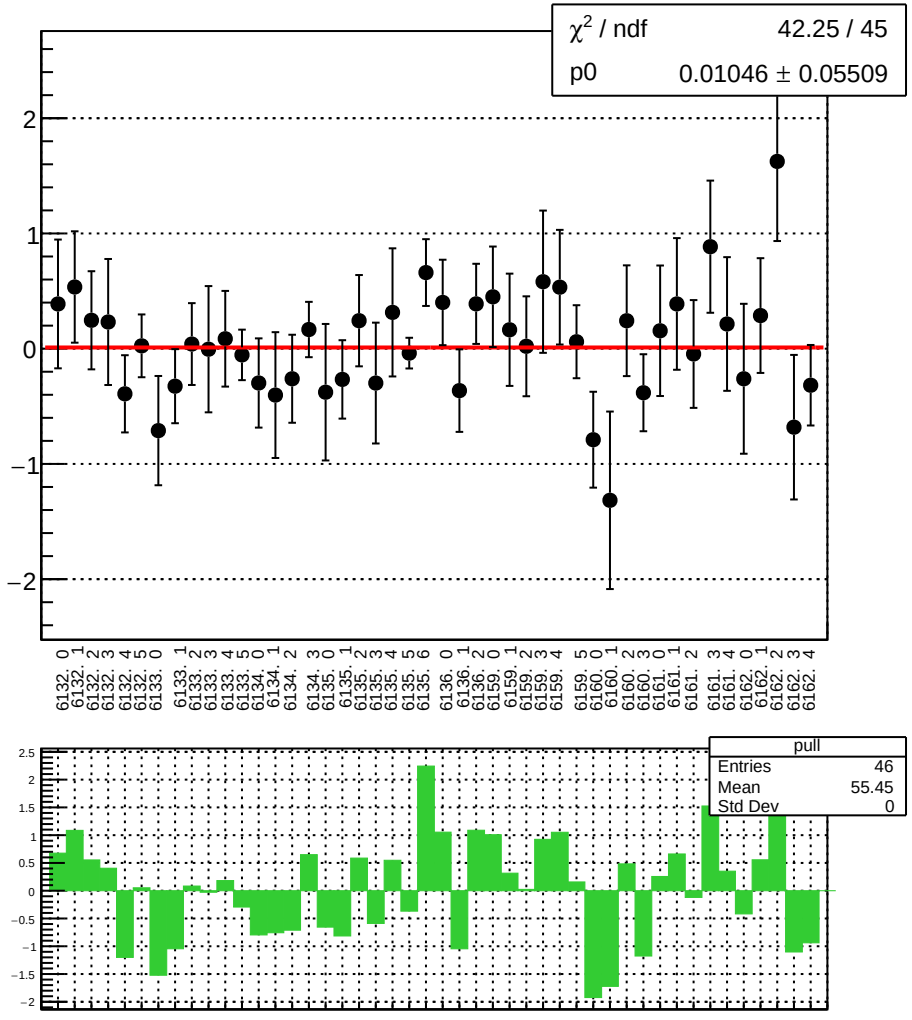

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.836e+04 / 45
p0 69.07 ± 0.07449
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

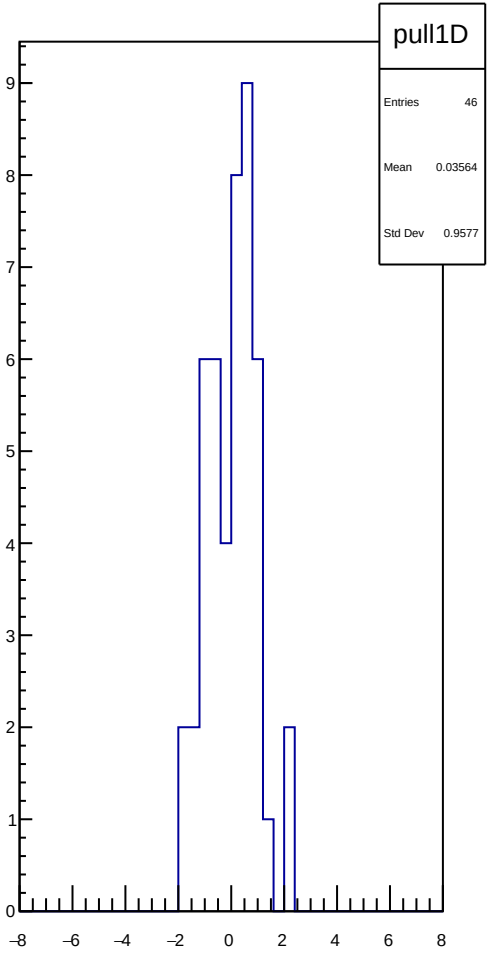

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 47.37 / 45
p0 −3.701e−15 ± 4.532e−14
pull
Entries 46
Mean 22.99
Std Dev 19.61

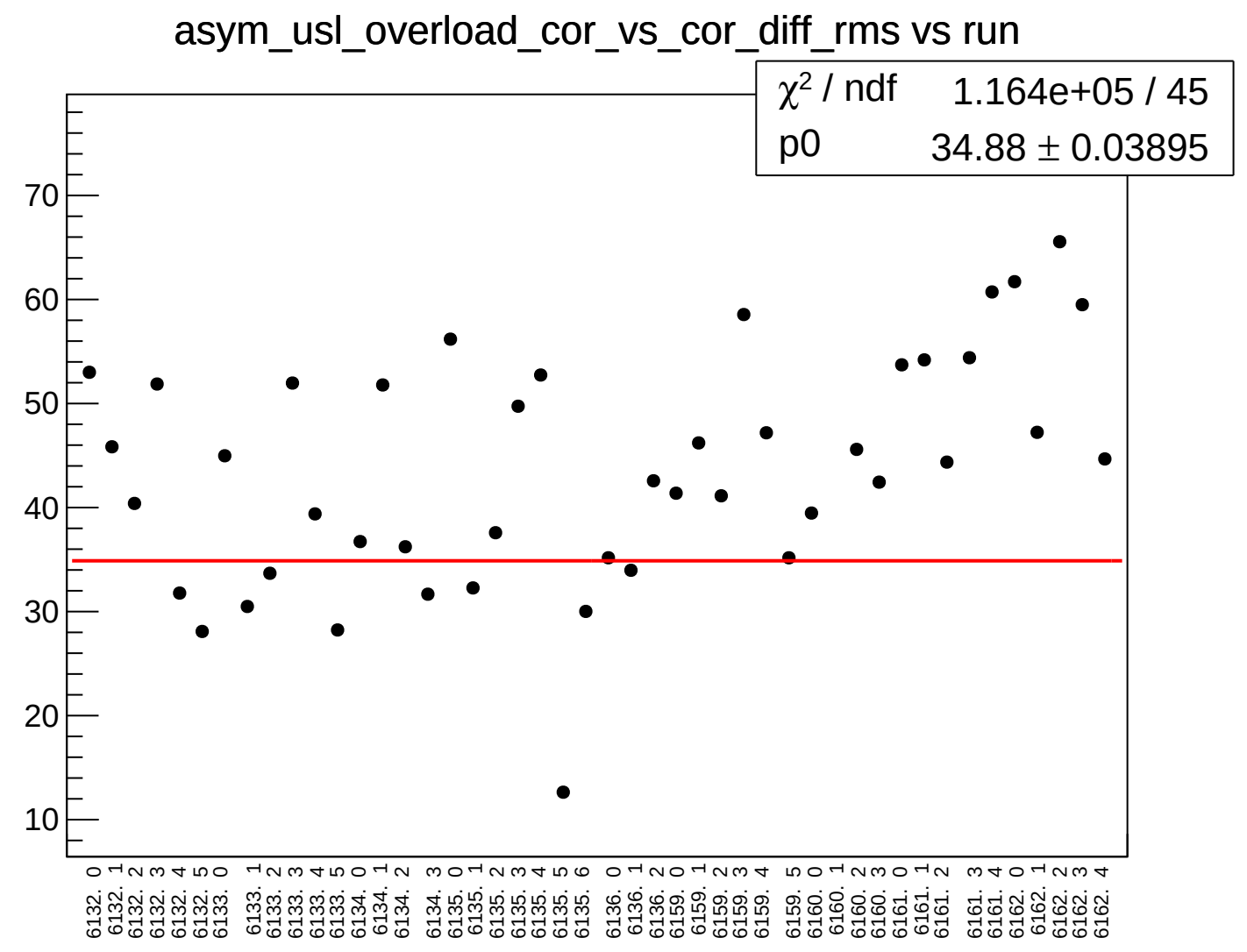

pull1D
Entries 46
Mean 0.1687
Std Dev 1.001

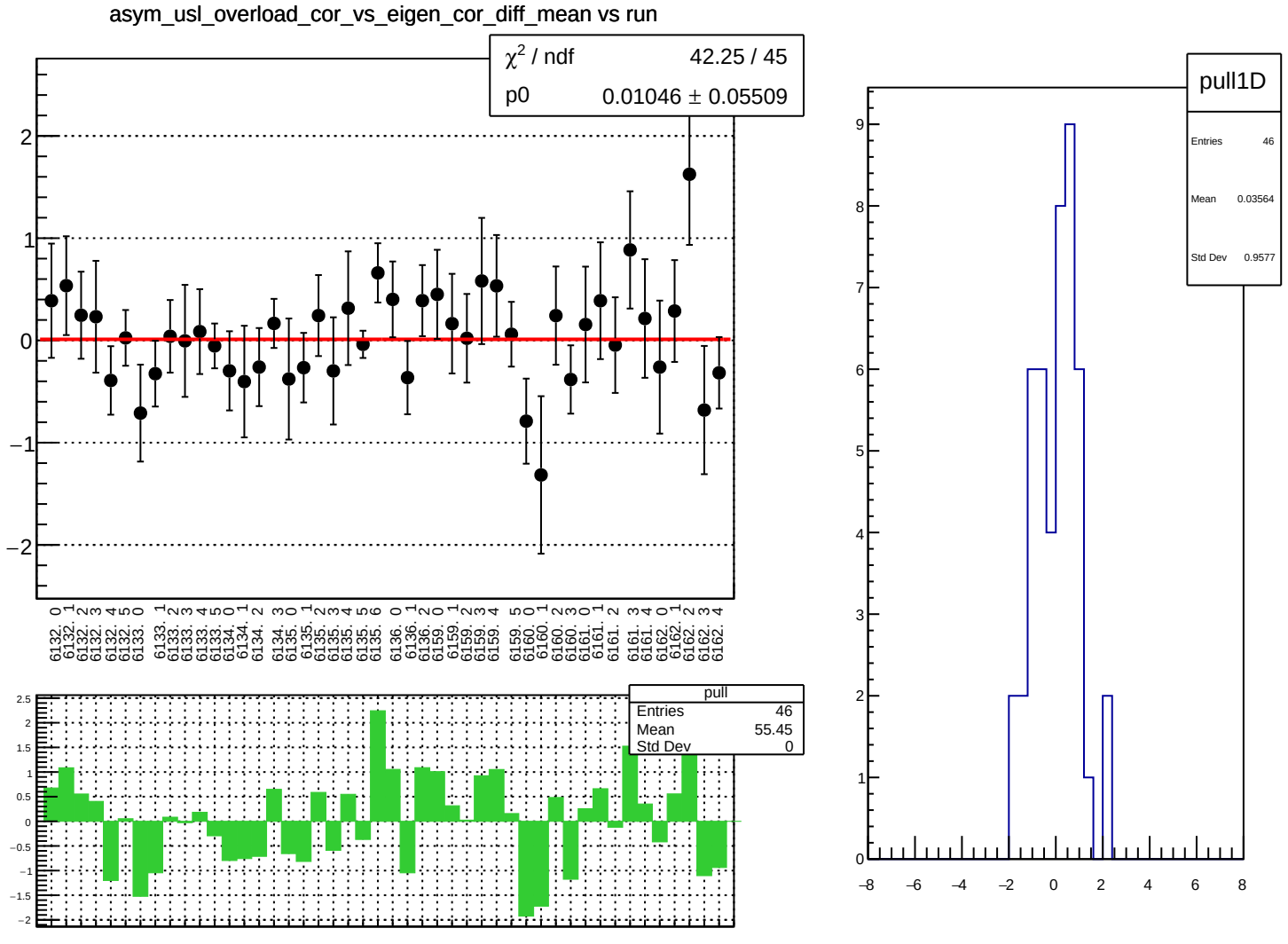

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.044e+05 / 45
p0 2.297e−11 ± 3.204e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

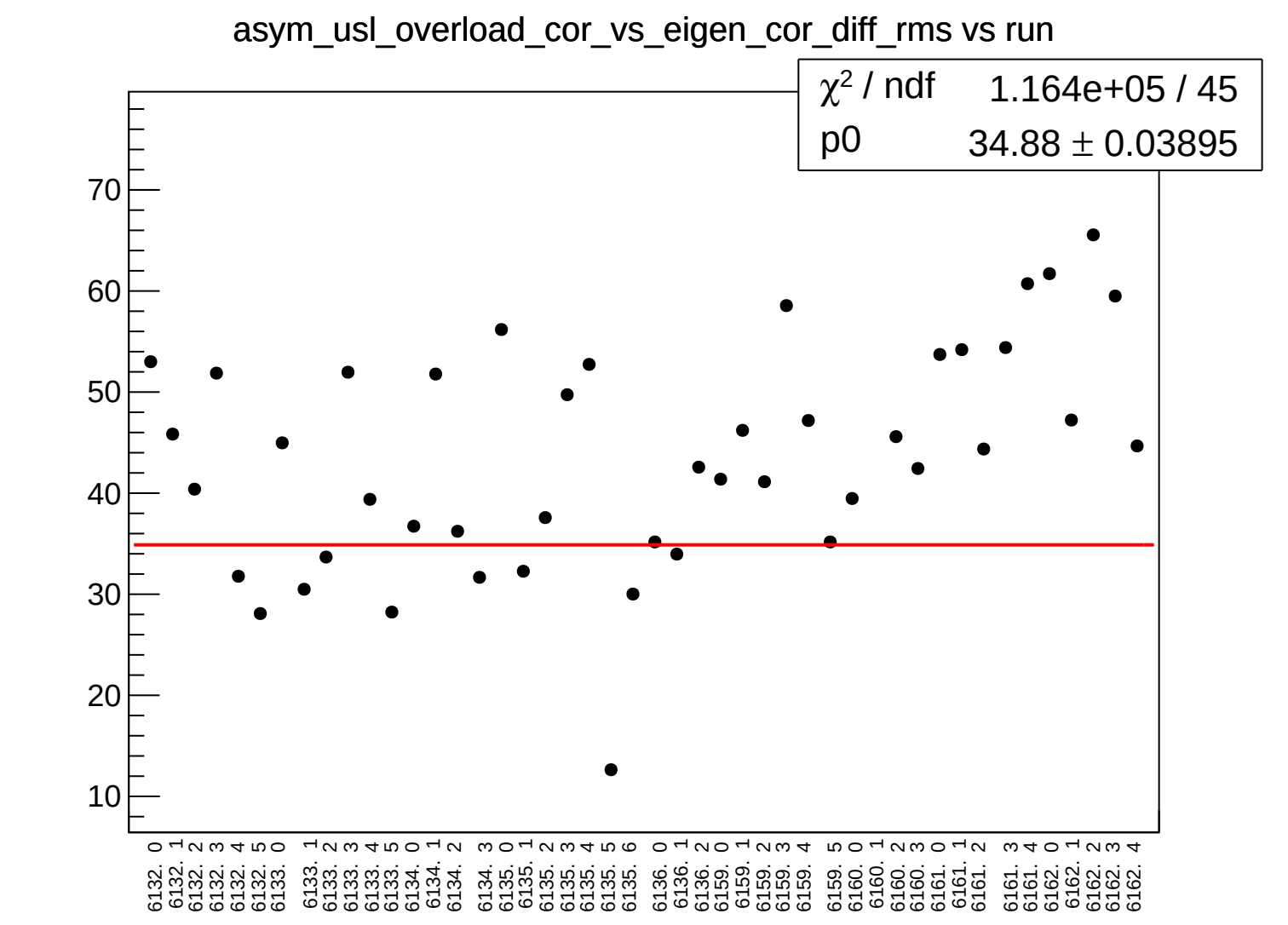
asym_usl_overload_cor_vs_cor_diff_mean vs run

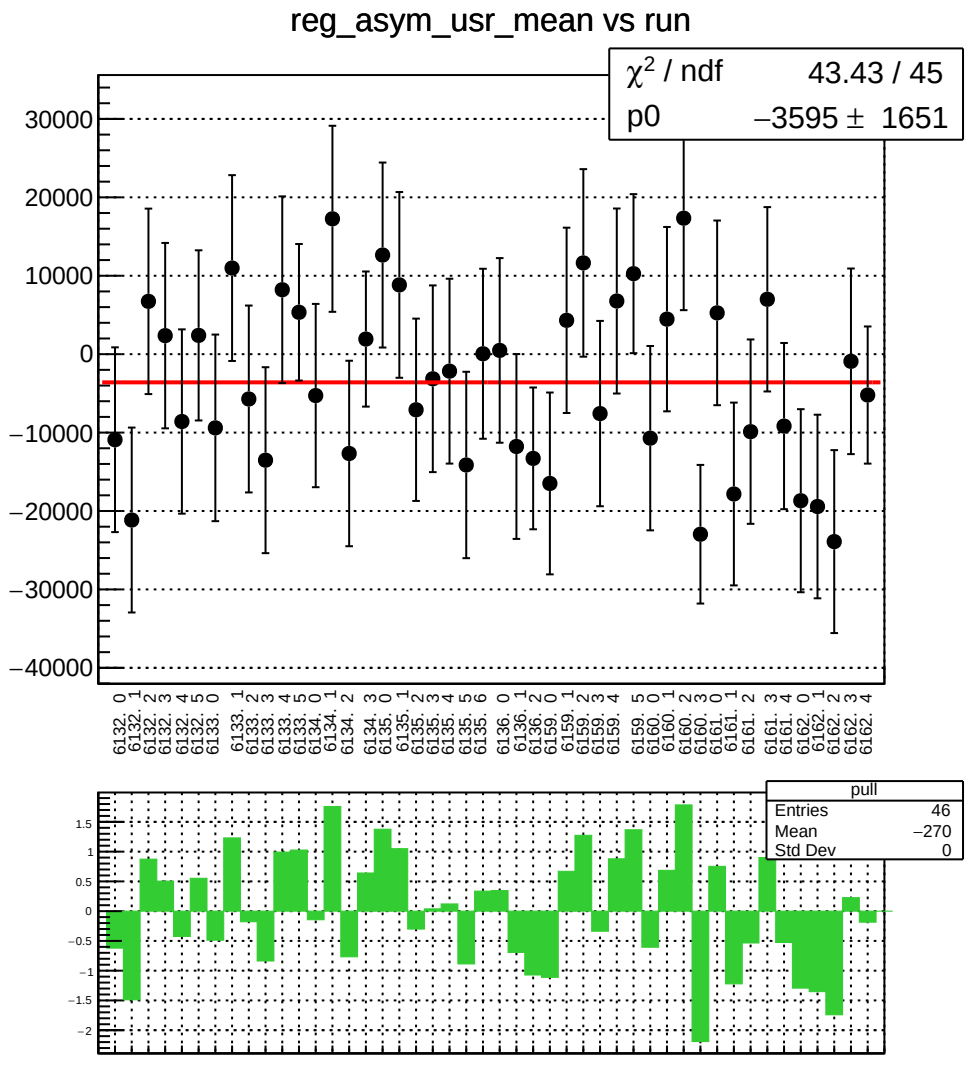


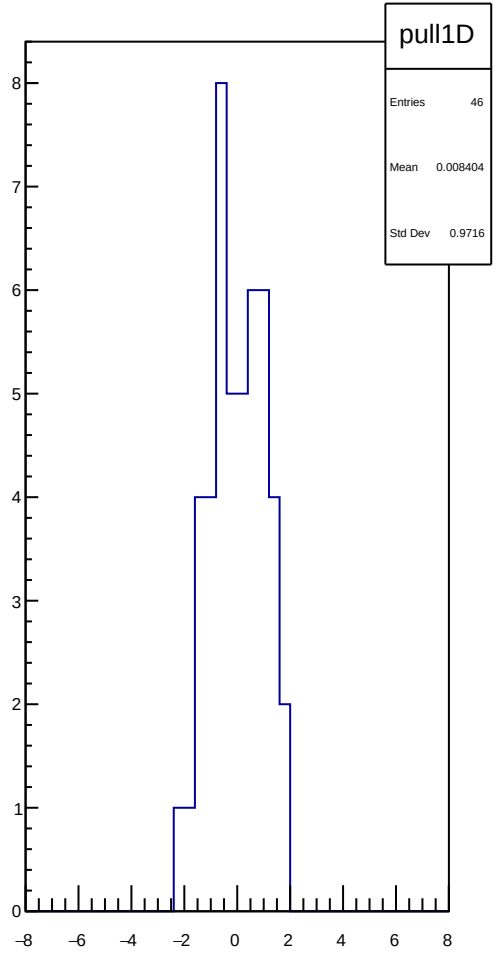


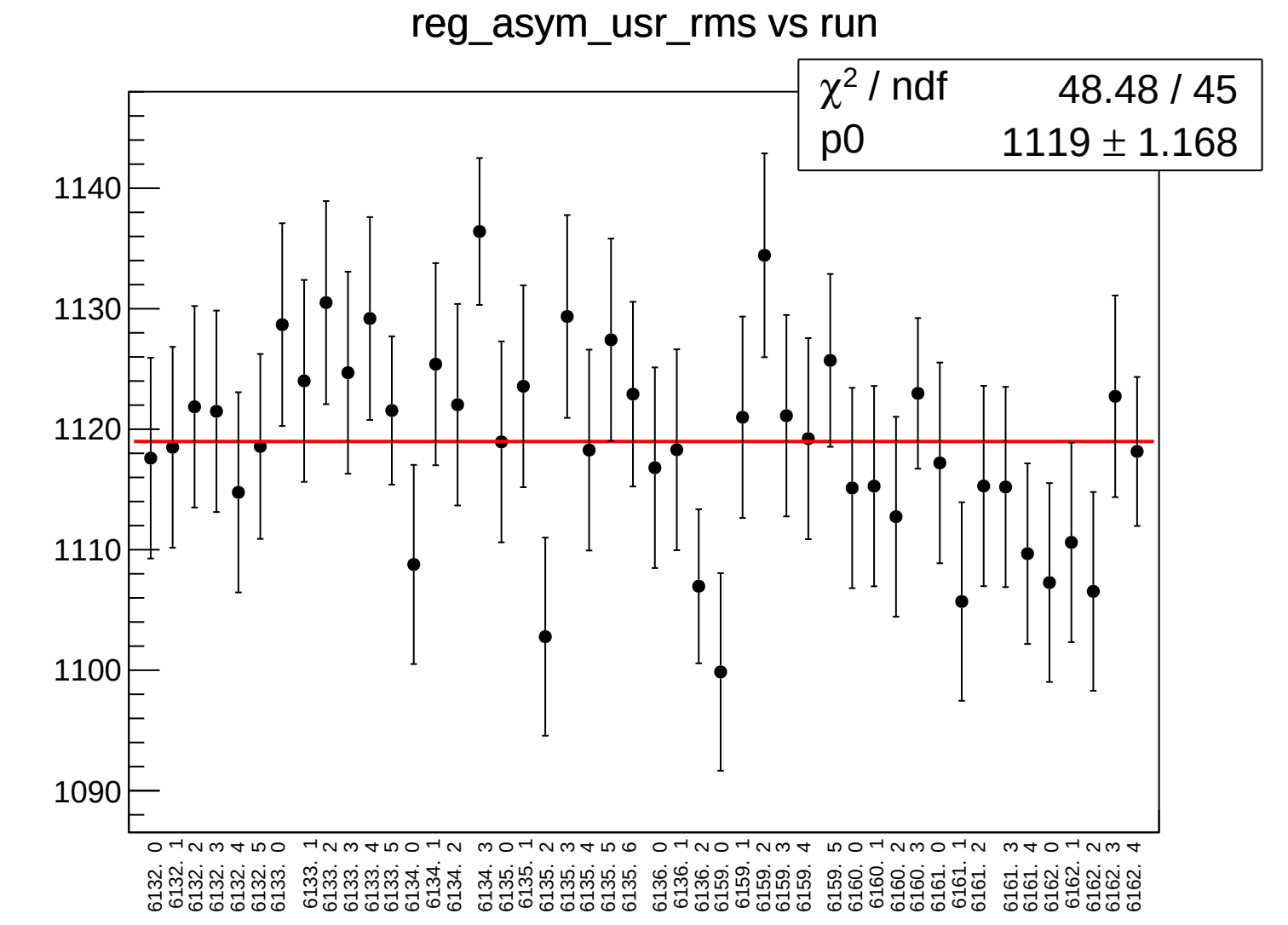

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.164e+05 / 45
p0 34.88 ± 0.03895
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

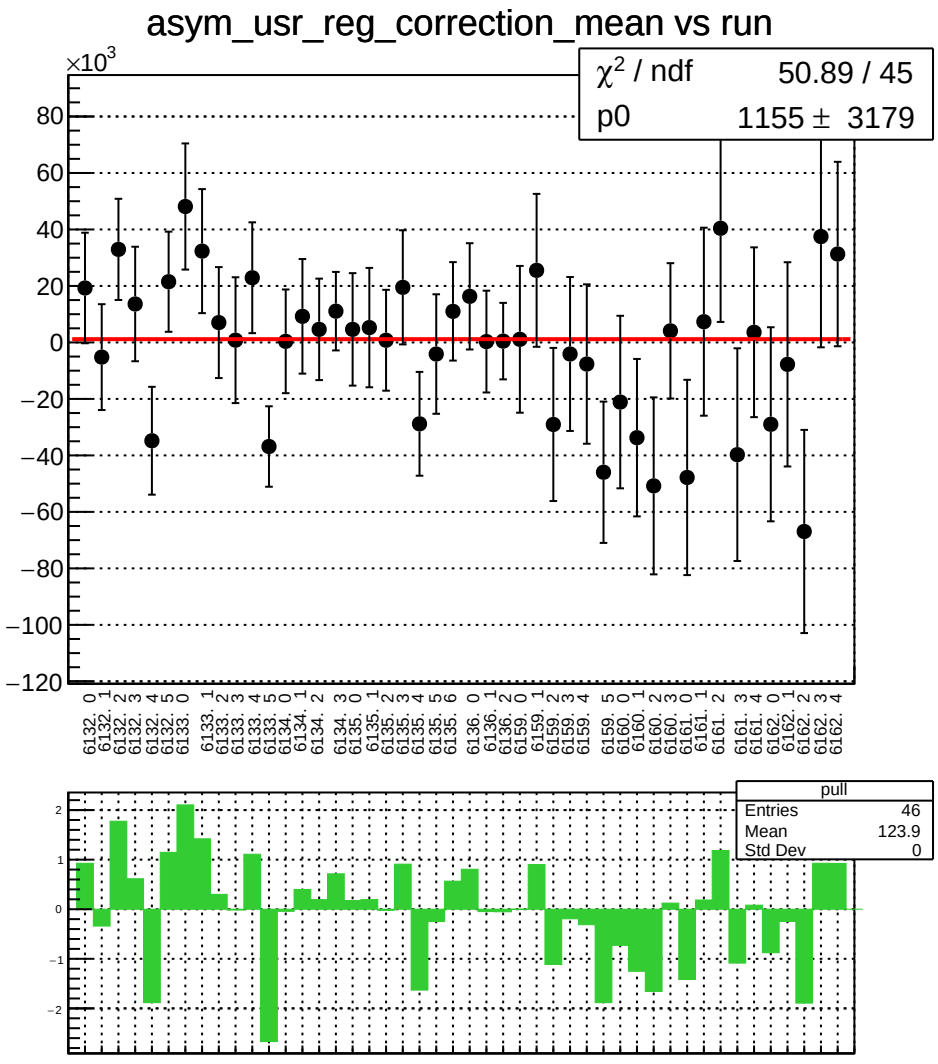

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.25 / 45
p0 0.01046 ± 0.05509
pull
Entries 46
Mean 55.45
Std Dev 0
pull1D
Entries 46
Mean 0.03564
Std Dev 0.9577

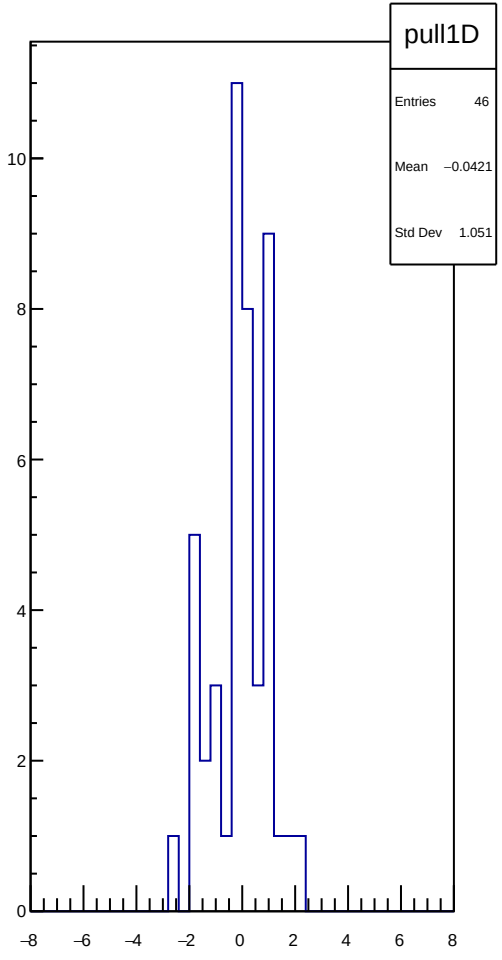

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.164e+05 / 45
p0 34.88 ± 0.03895
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

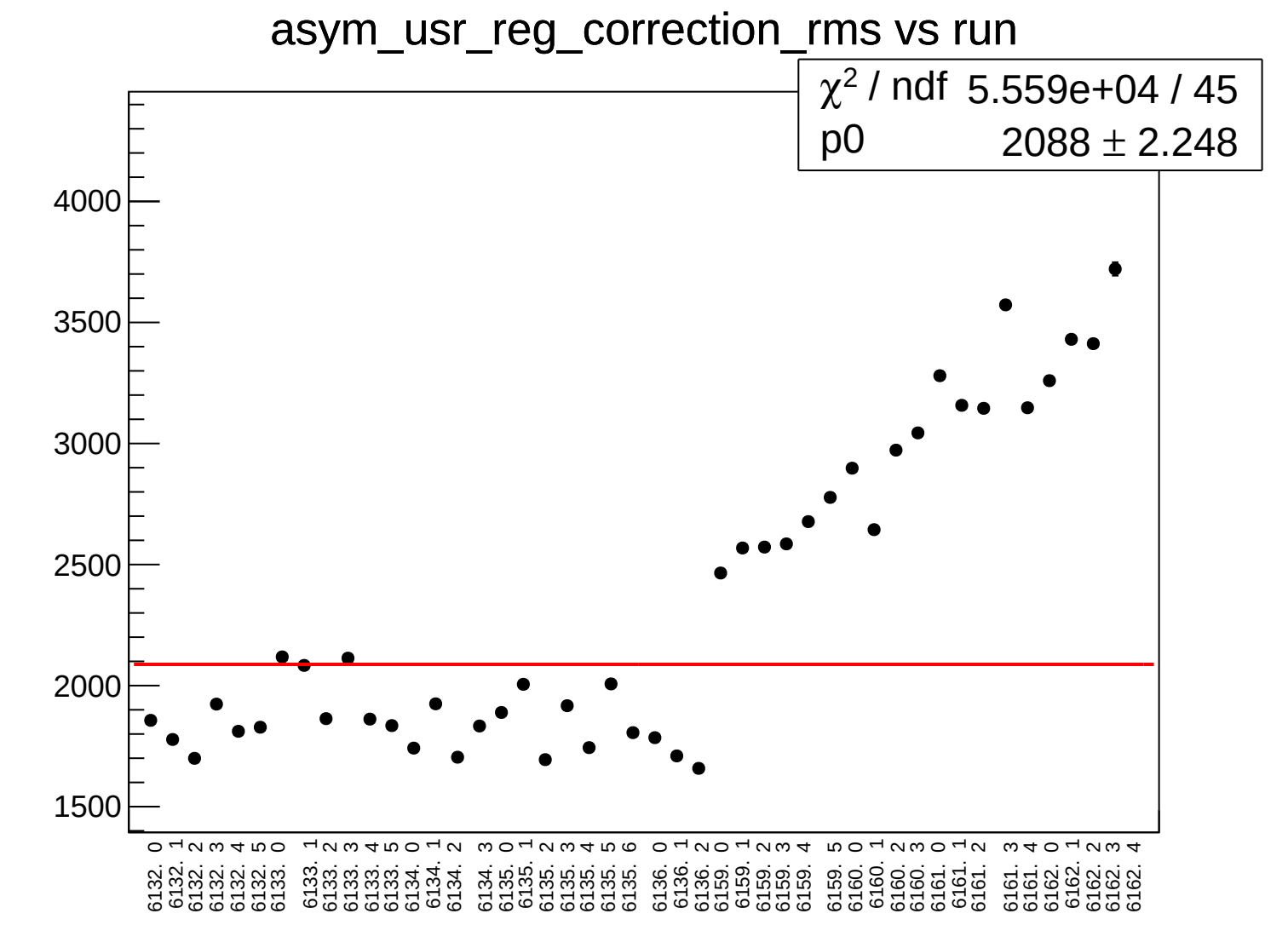

reg_asym_usr_mean vs run
χ² / ndf 43.43 / 45
p0 −3595 ± 1651
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −270
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

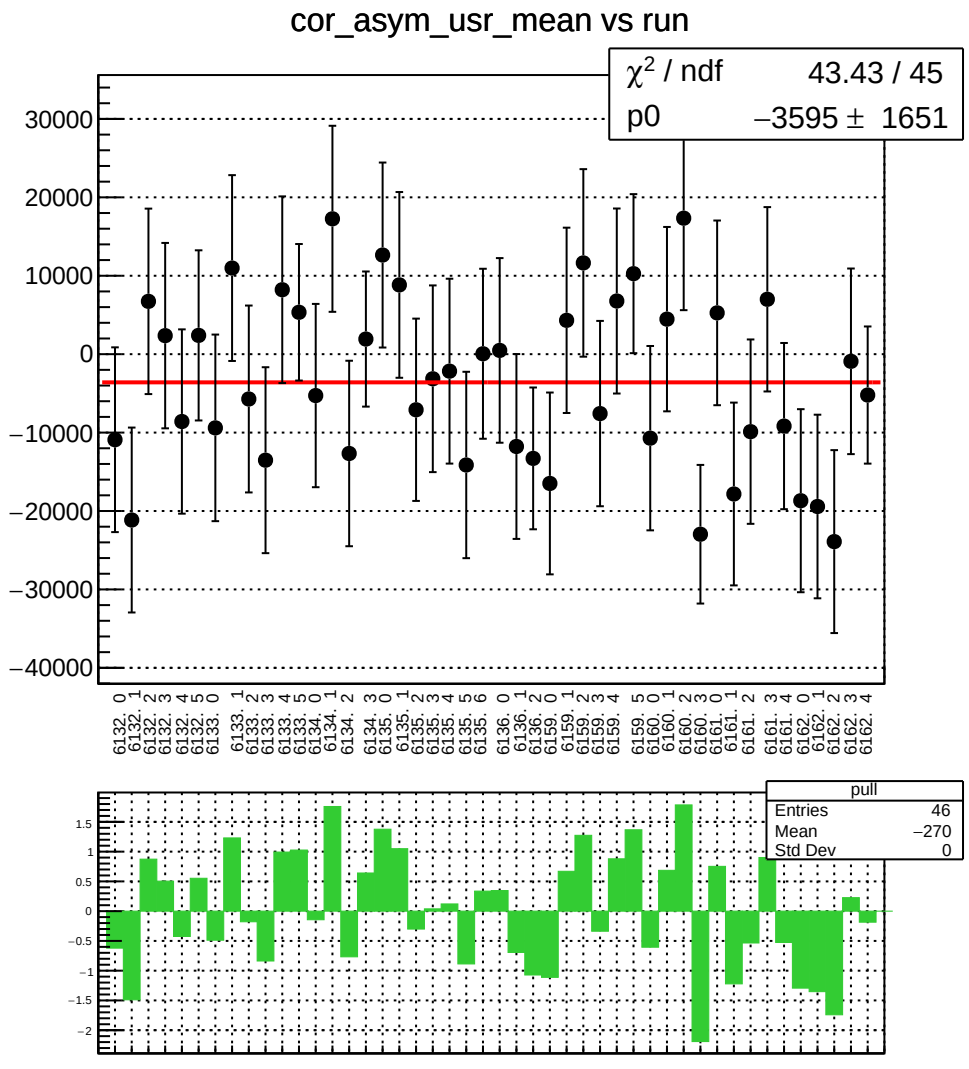

pull1D
Entries 46
Mean 0.008404
Std Dev 0.9716
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

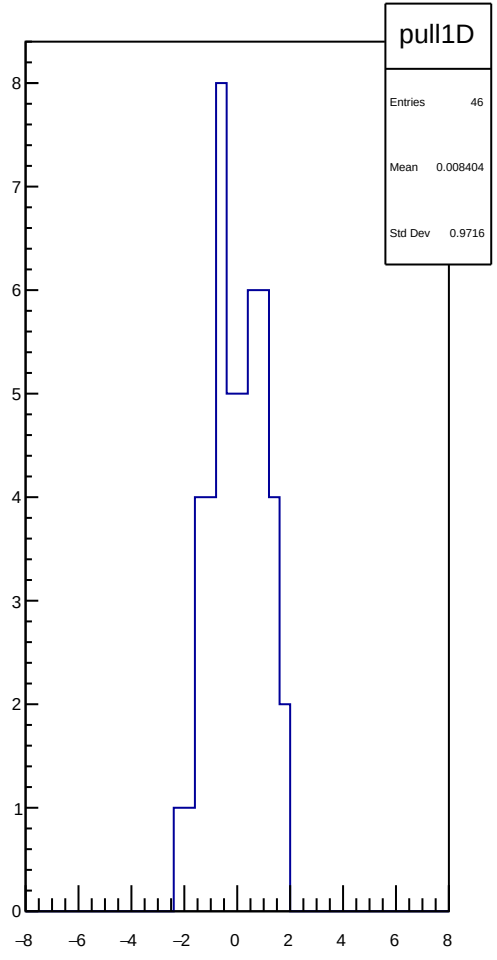

reg_asym_usr_rms vs run
χ² / ndf 48.48 / 45
p0 1119 ± 1.168
1140
1130
1120
1110
1100
1090
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

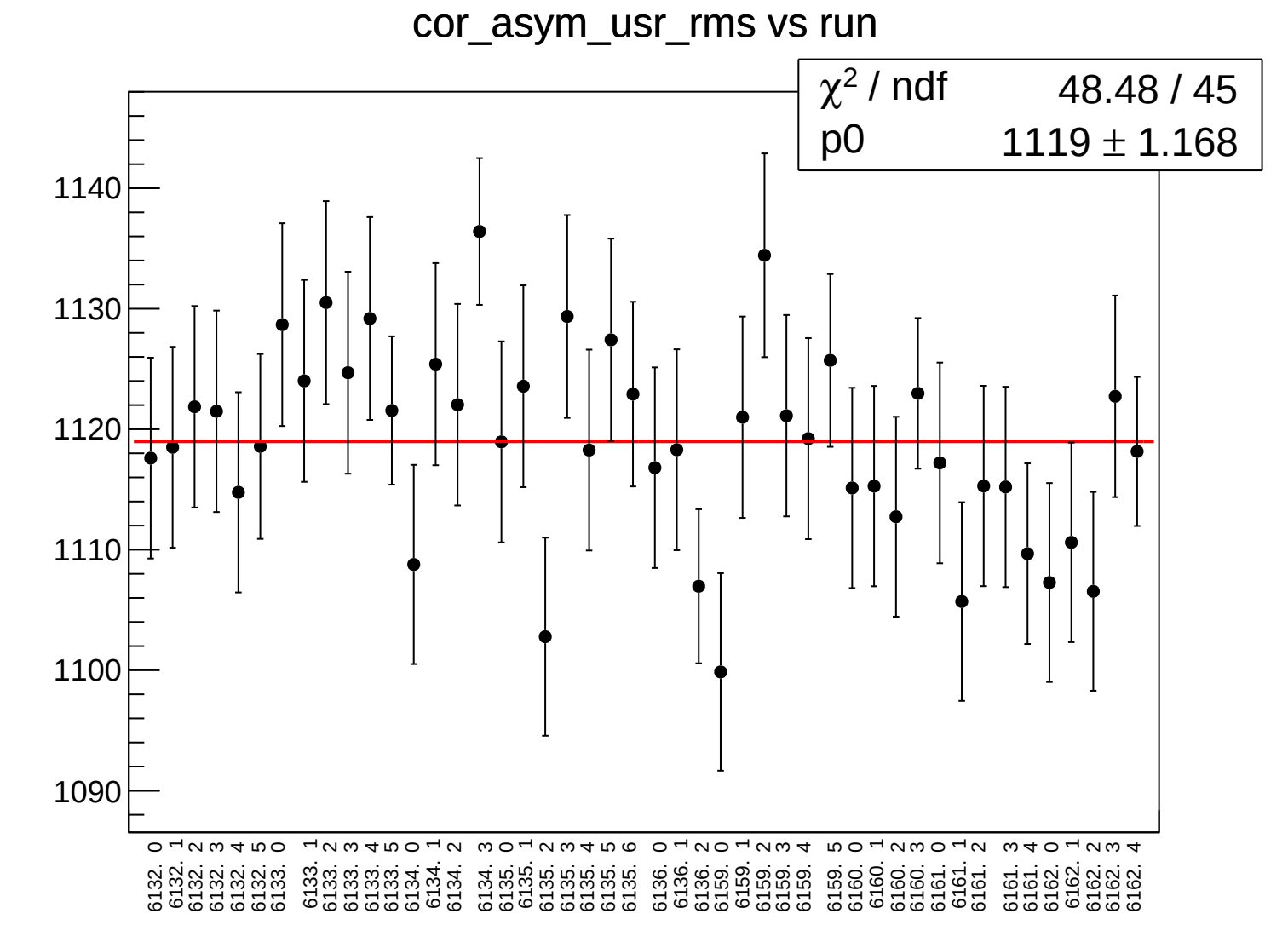

asym_usr_reg_correction_mean vs run
×10^3
χ^2 / ndf 50.89 / 45
p0 1155 ± 3179
pull
Entries 46
Mean 123.9
Std Dev 0

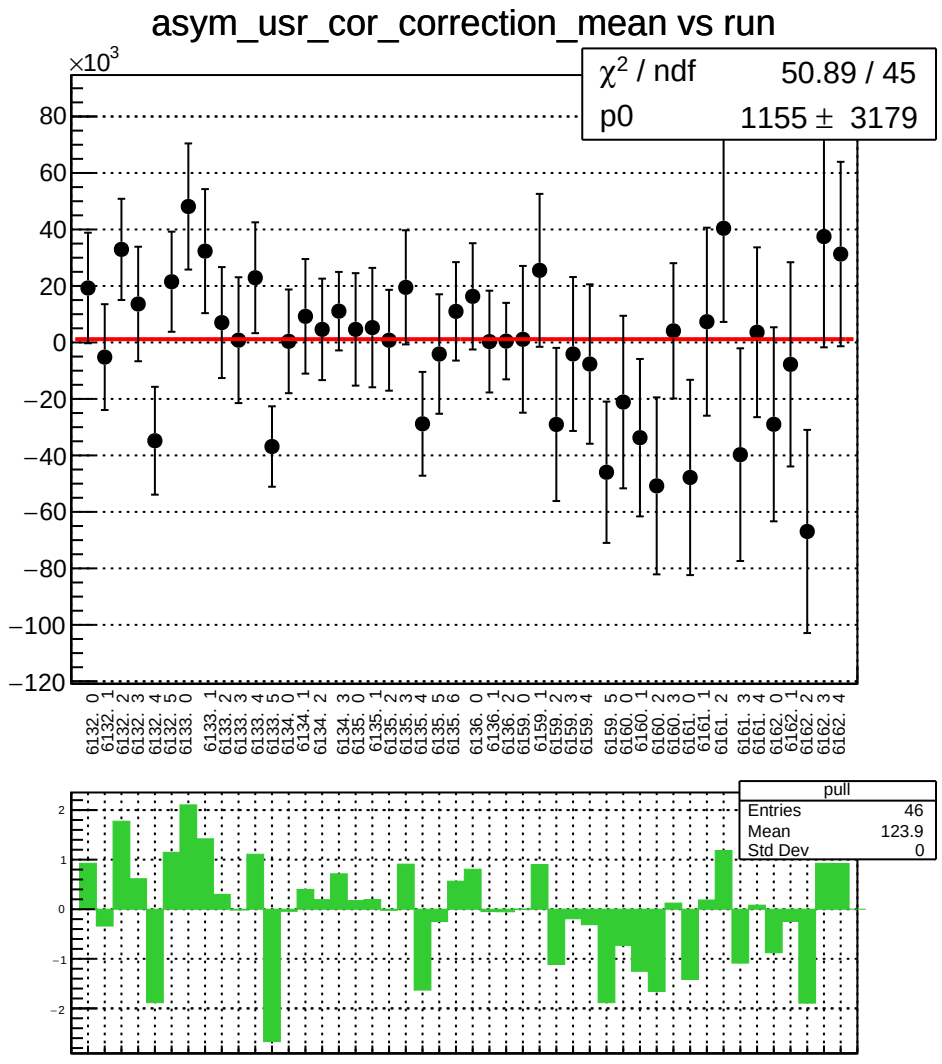

pull1D
Entries 46
Mean −0.0421
Std Dev 1.051

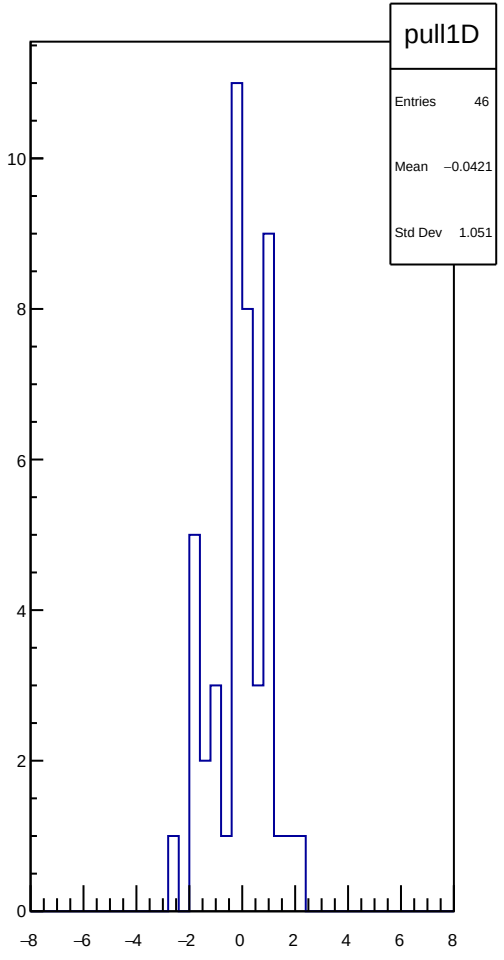

asym_usr_reg_correction_rms vs run
χ² / ndf 5.559e+04 / 45
p0 2088 ± 2.248
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

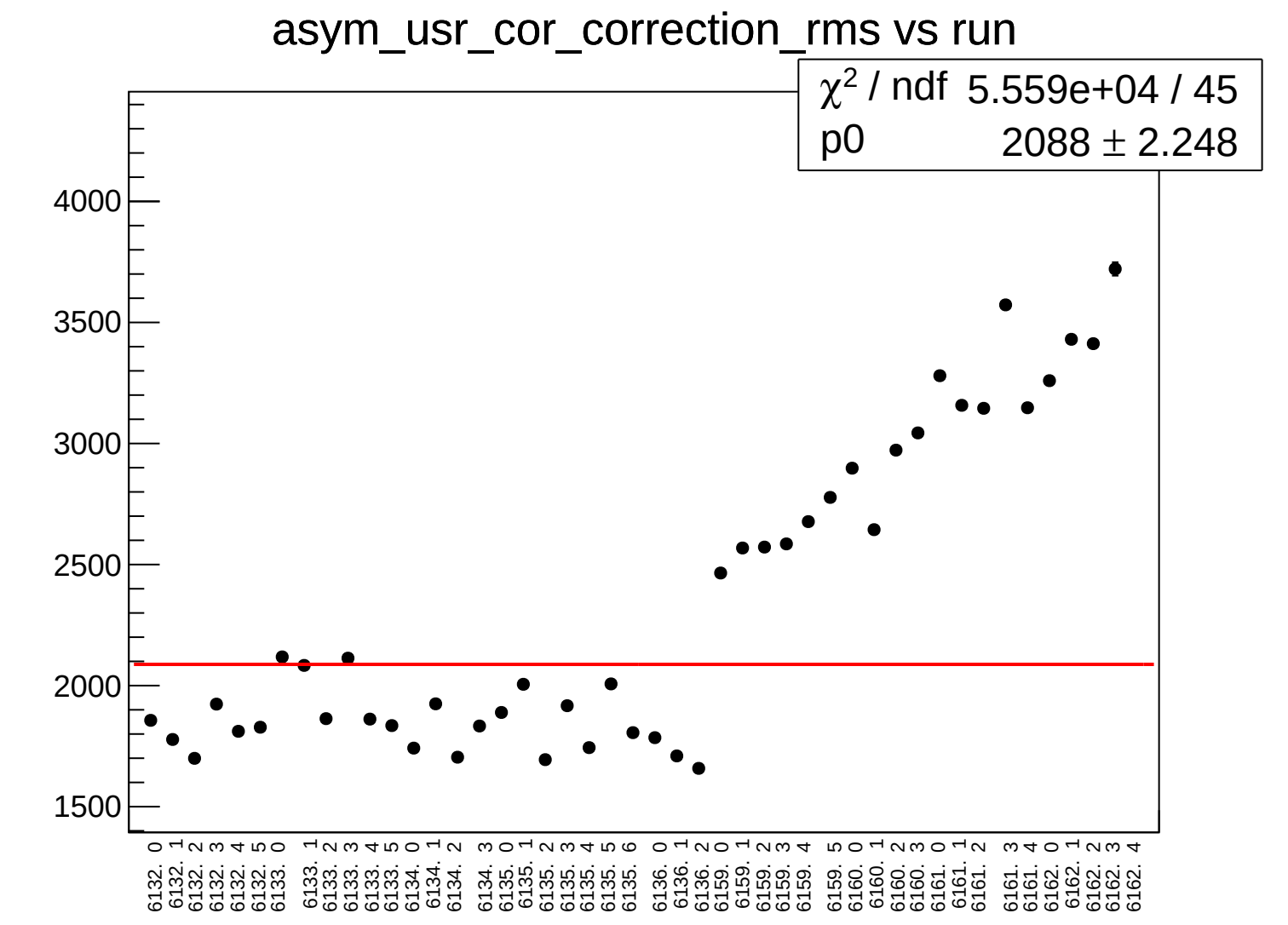

cor_asym_usr_mean vs run
χ² / ndf 43.43 / 45
p0 −3595 ± 1651
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −270
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

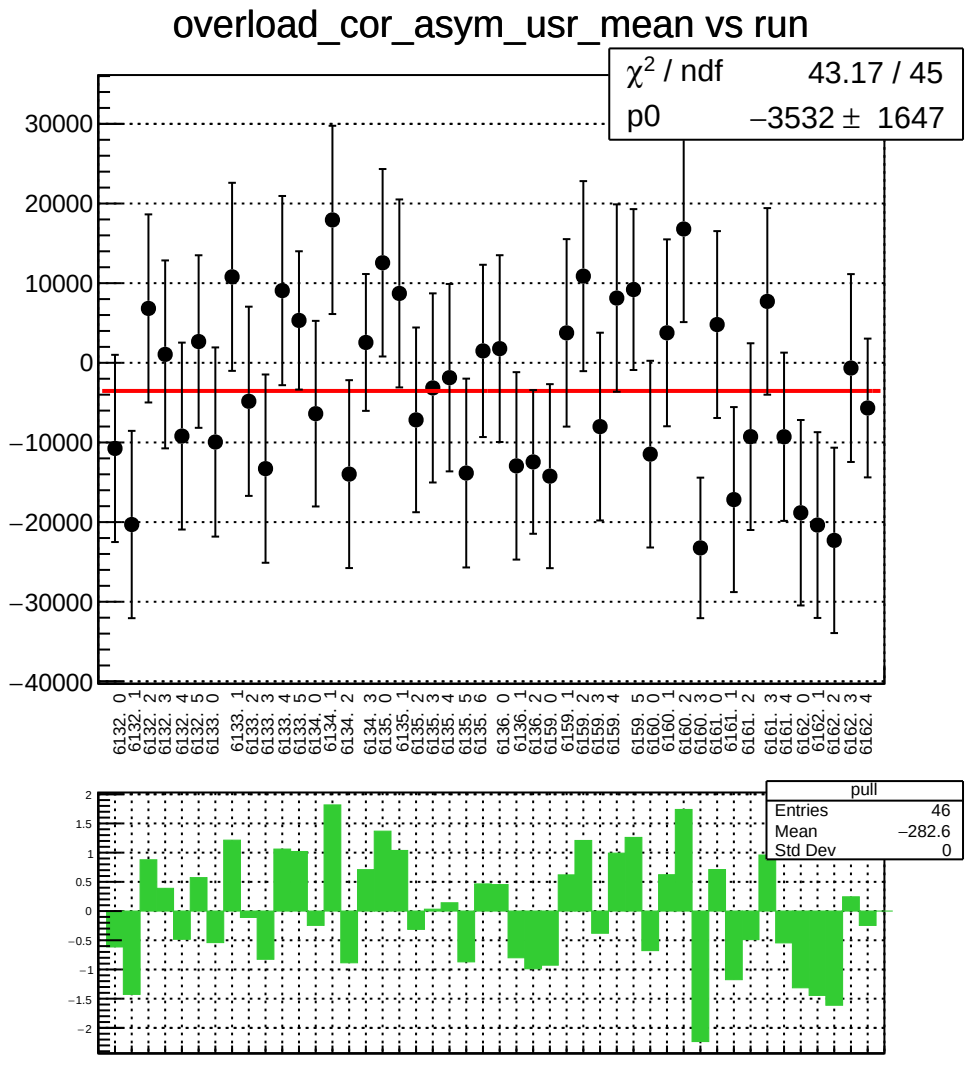

pull1D
Entries 46
Mean 0.008404
Std Dev 0.9716
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

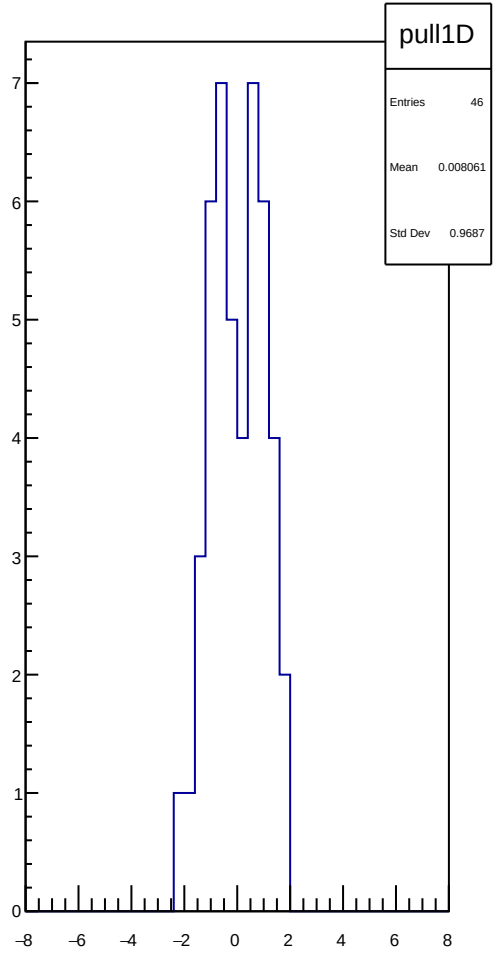

cor_asym_usr_rms vs run
χ² / ndf 48.48 / 45
p0 1119 ± 1.168
1140
1130
1120
1110
1100
1090
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

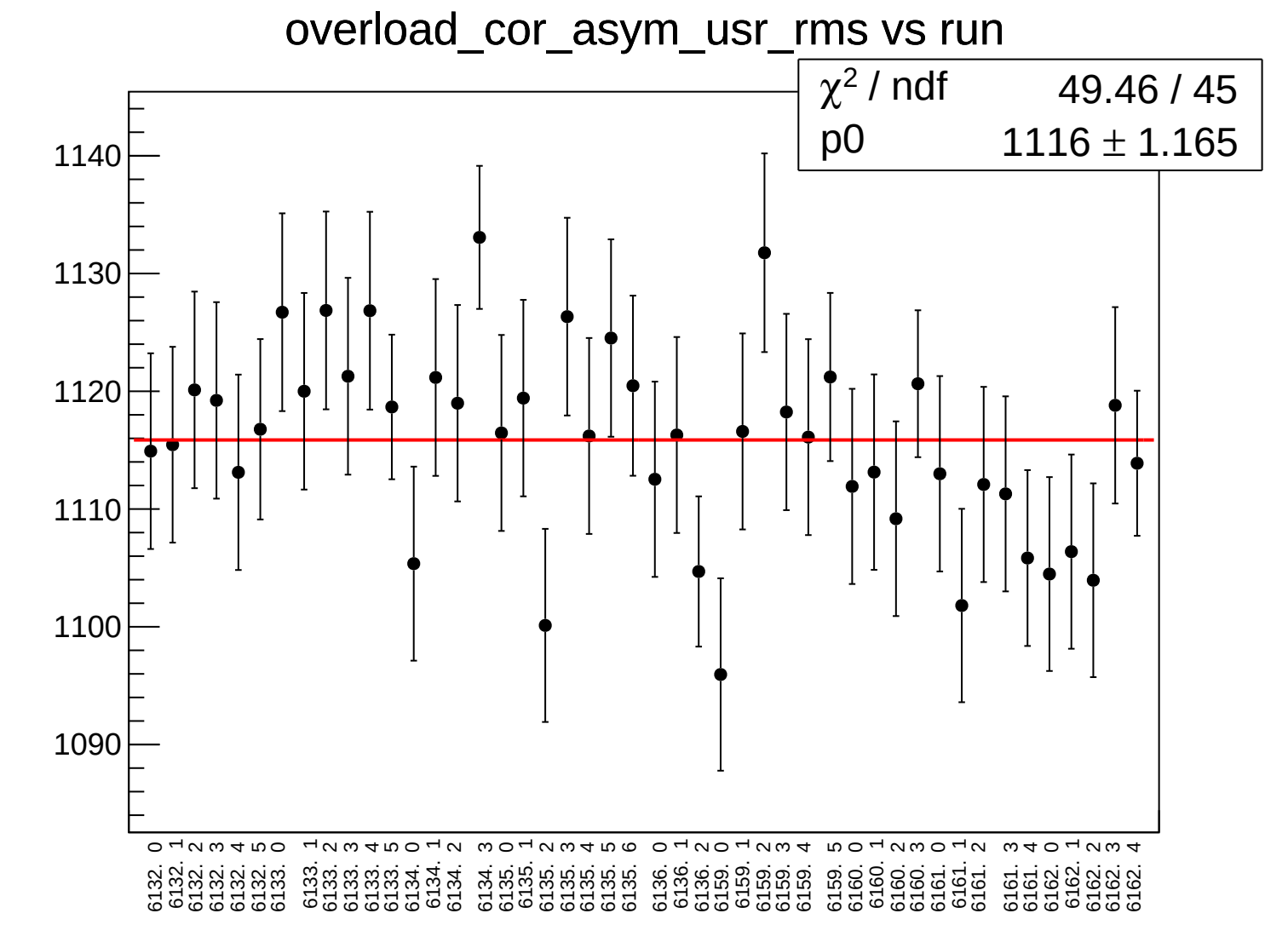

asym_usr_cor_correction_mean vs run
χ² / ndf 50.89 / 45
p0 1155 ± 3179
×10³
pull
Entries 46
Mean 123.9
Std Dev 0

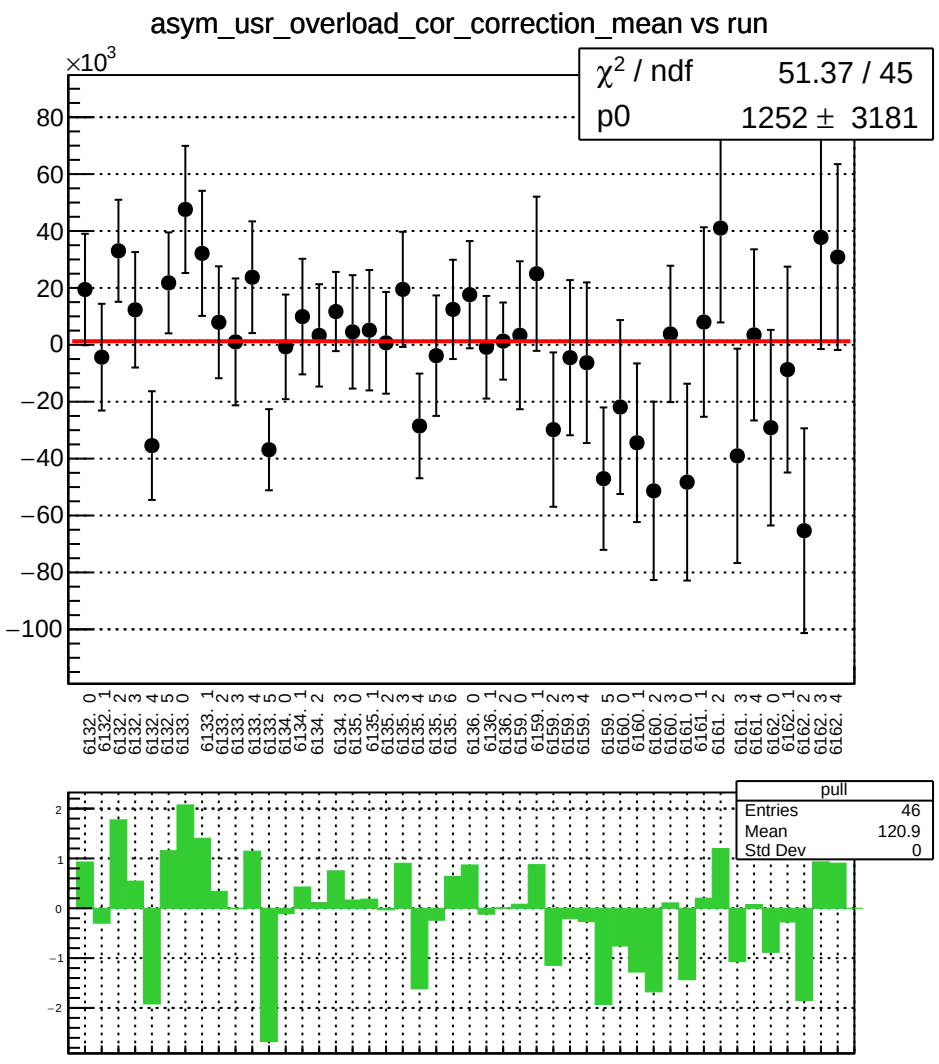

pull1D
Entries 46
Mean −0.0421
Std Dev 1.051

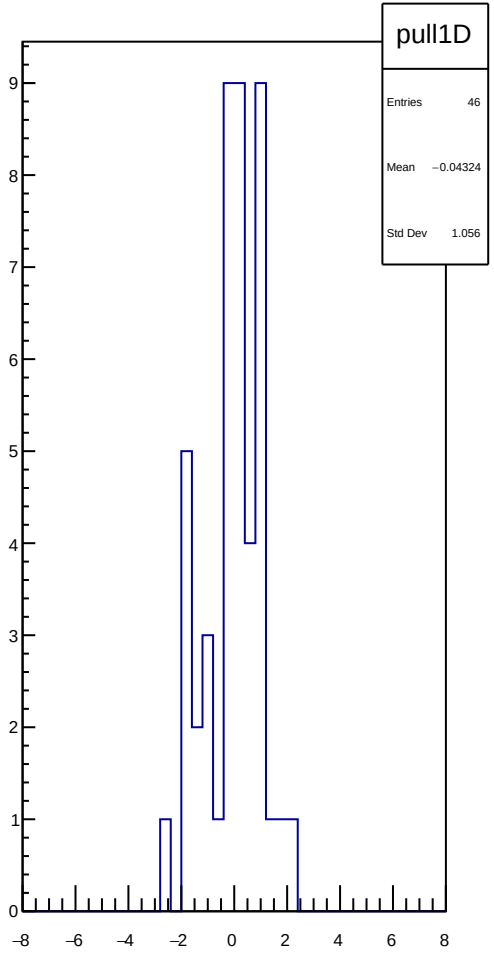

asym_usr_cor_correction_rms vs run
χ² / ndf 5.559e+04 / 45
p0 2088 ± 2.248
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

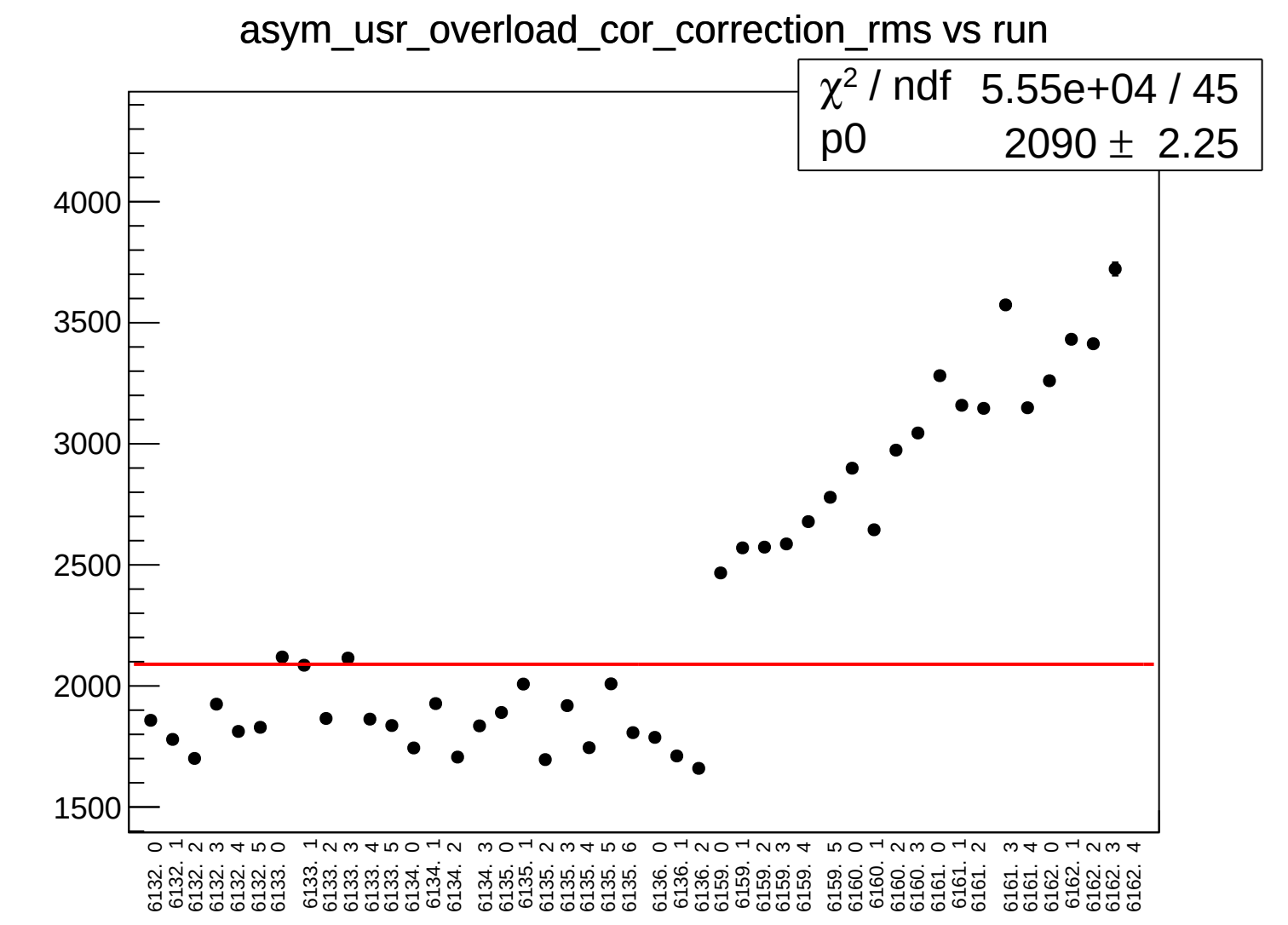

overload_cor_asym_usr_mean vs run
χ² / ndf 43.17 / 45
p0 −3532 ± 1647
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −282.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

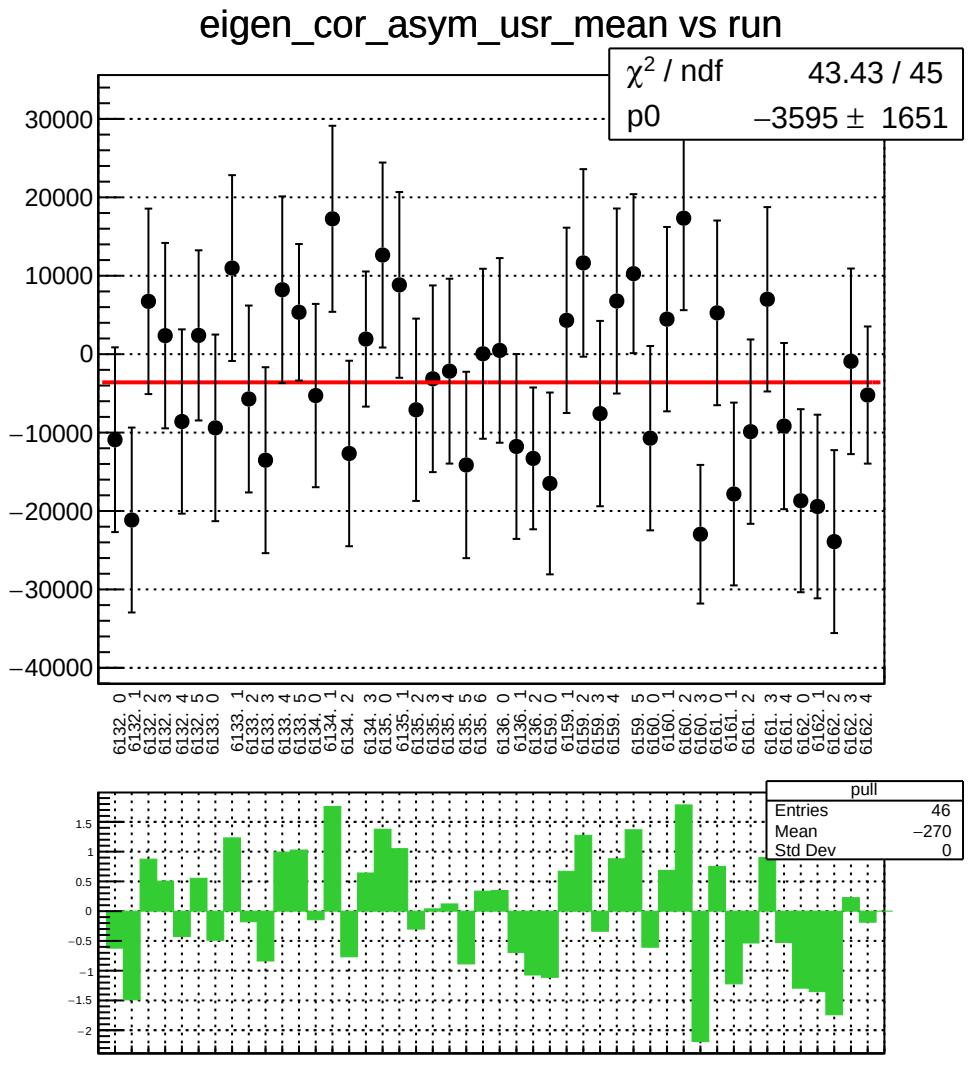

pull1D
Entries 46
Mean 0.008061
Std Dev 0.9687
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

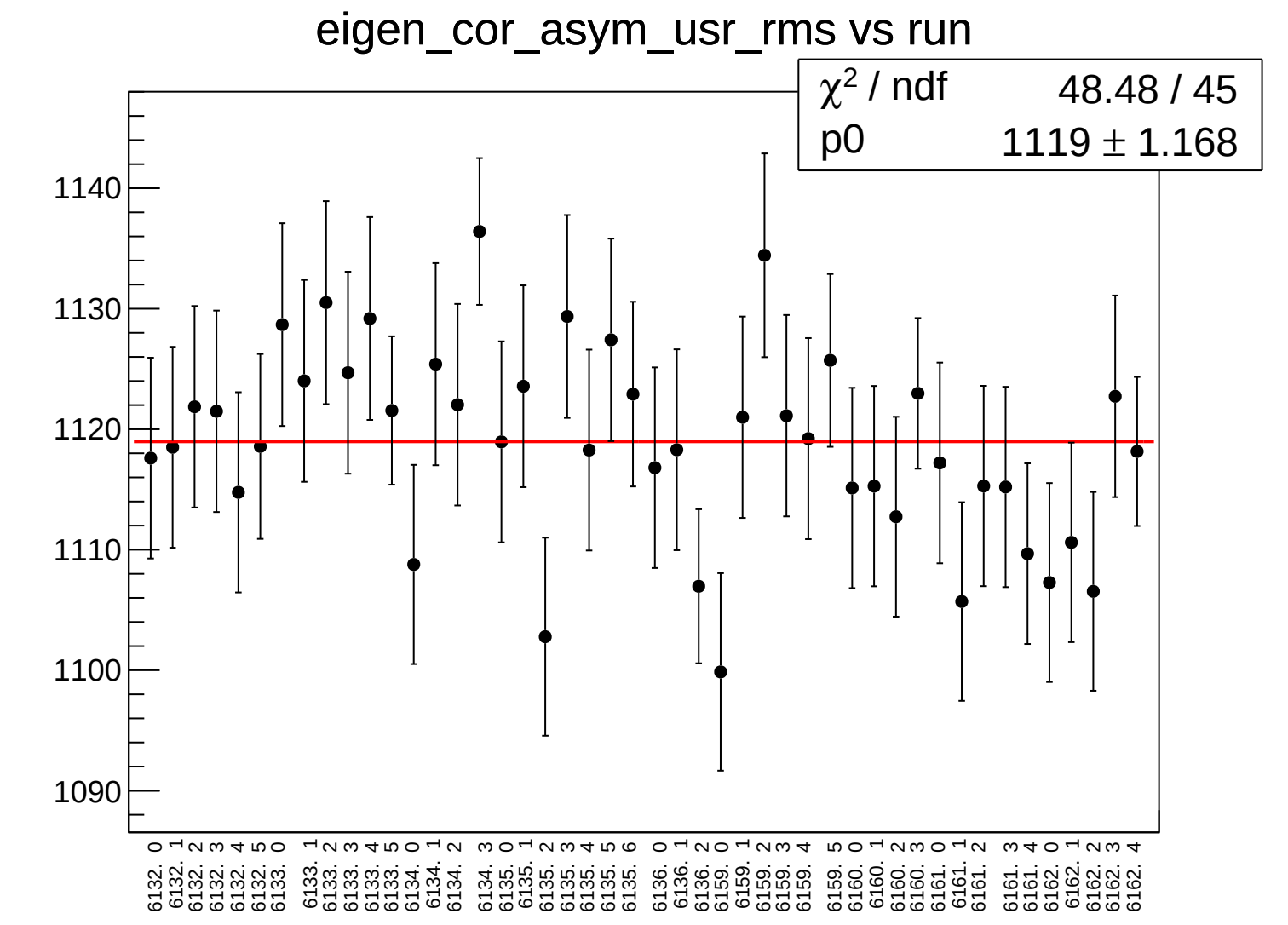

overload_cor_asym_usr_rms vs run
χ² / ndf 49.46 / 45
p0 1116 ± 1.165
1140
1130
1120
1110
1100
1090
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

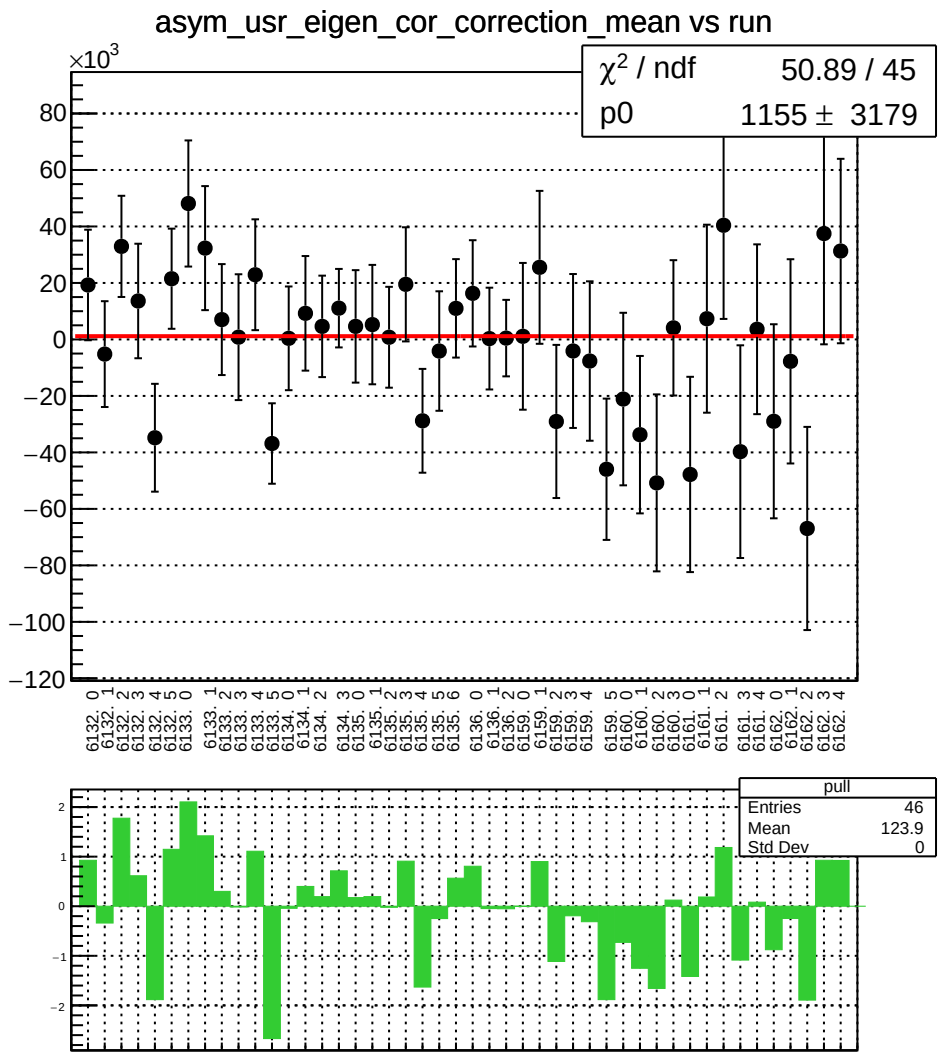

asym_usr_overload_cor_correction_mean vs run
×10^3
χ² / ndf 51.37 / 45
p0 1252 ± 3181
pull
Entries 46
Mean 120.9
Std Dev 0

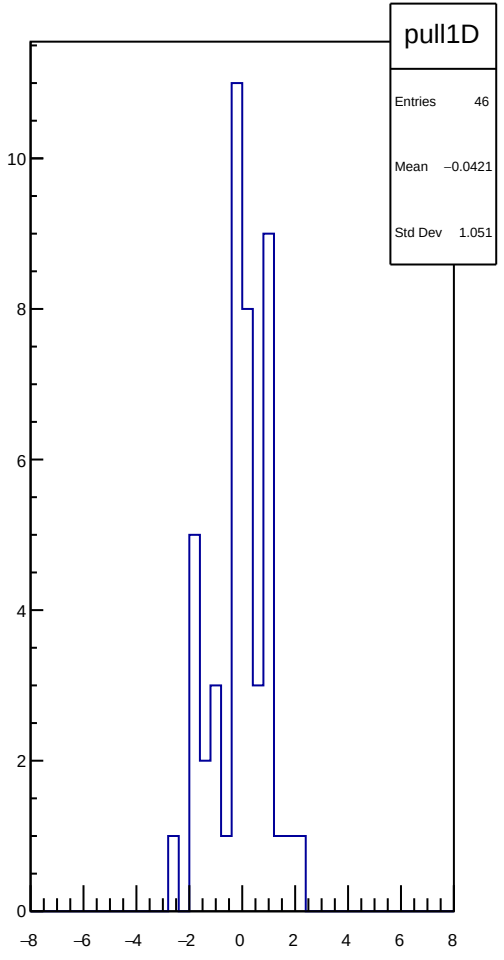

pull1D
Entries 46
Mean −0.04324
Std Dev 1.056

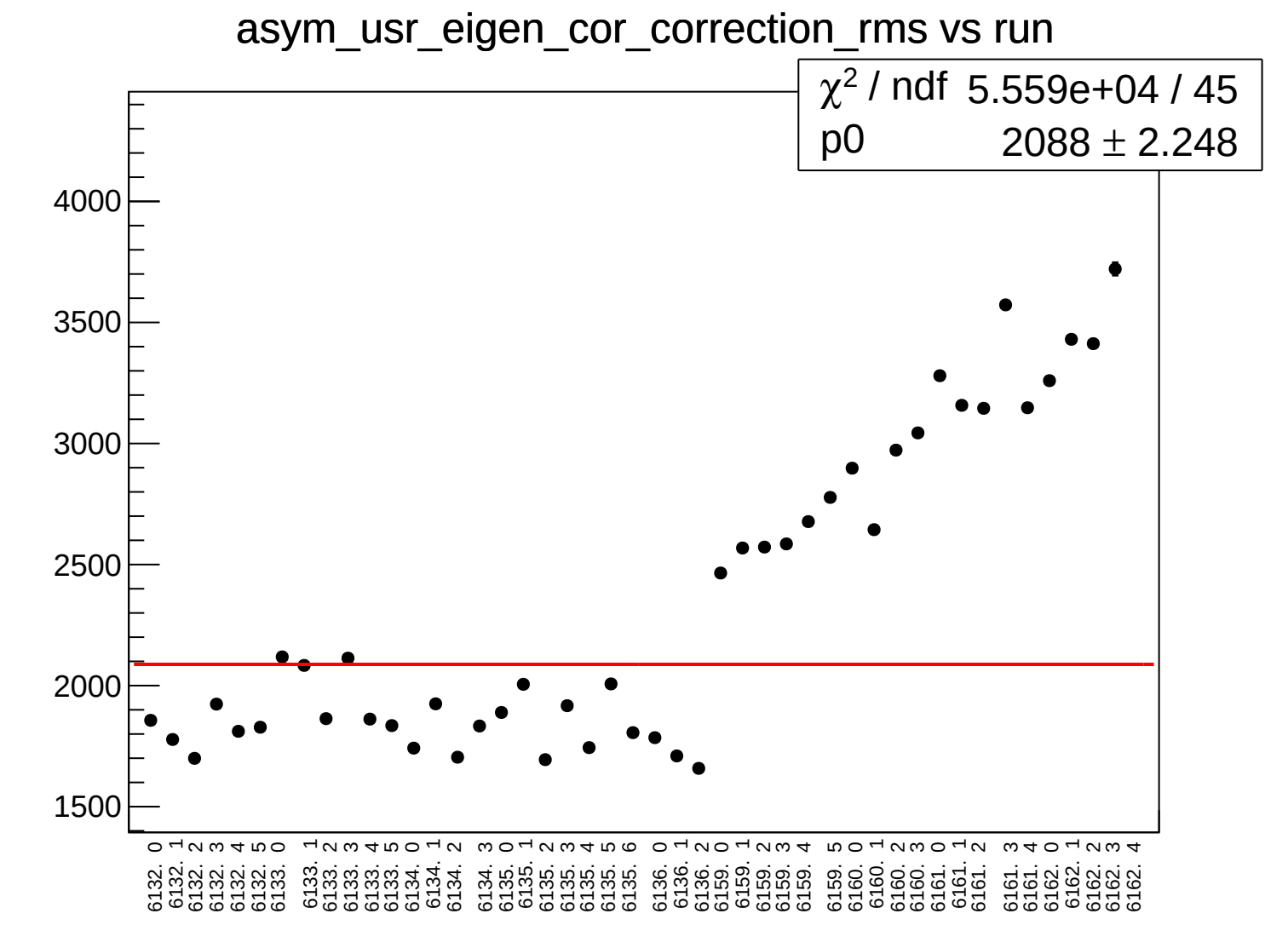

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 5.55e+04 / 45
p0 2090 ± 2.25
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

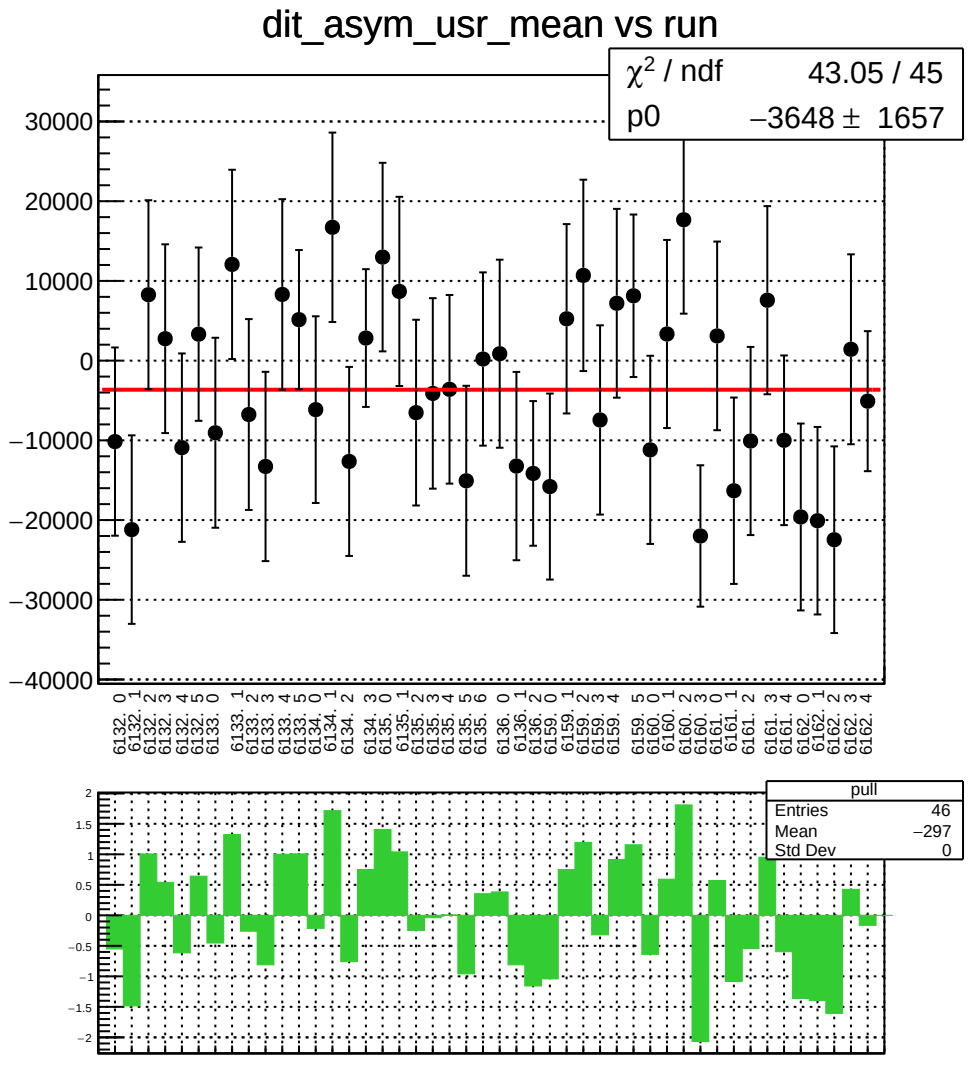

eigen_cor_asym_usr_mean vs run
χ² / ndf 43.43 / 45
p0 −3595 ± 1651
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −270
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.008404
Std Dev 0.9716
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

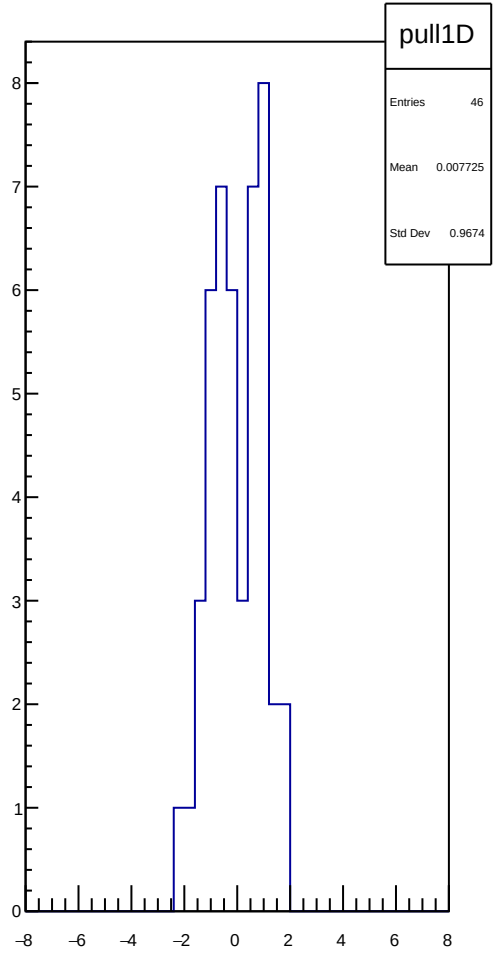

eigen_cor_asym_usr_rms vs run
χ² / ndf 48.48 / 45
p0 1119 ± 1.168
1140
1130
1120
1110
1100
1090
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

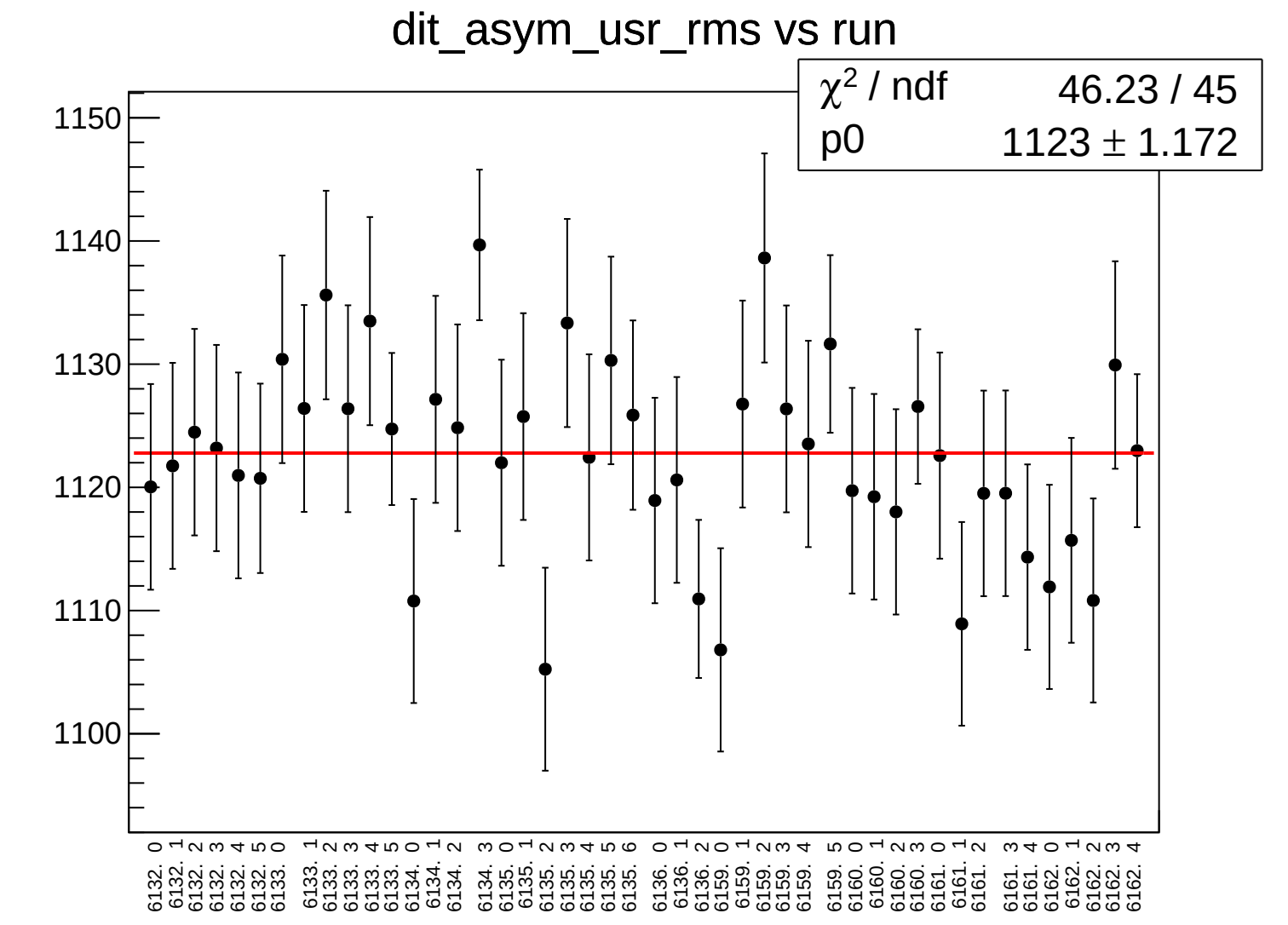

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 50.89 / 45
p0 1155 ± 3179
pull
Entries 46
Mean 123.9
Std Dev 0

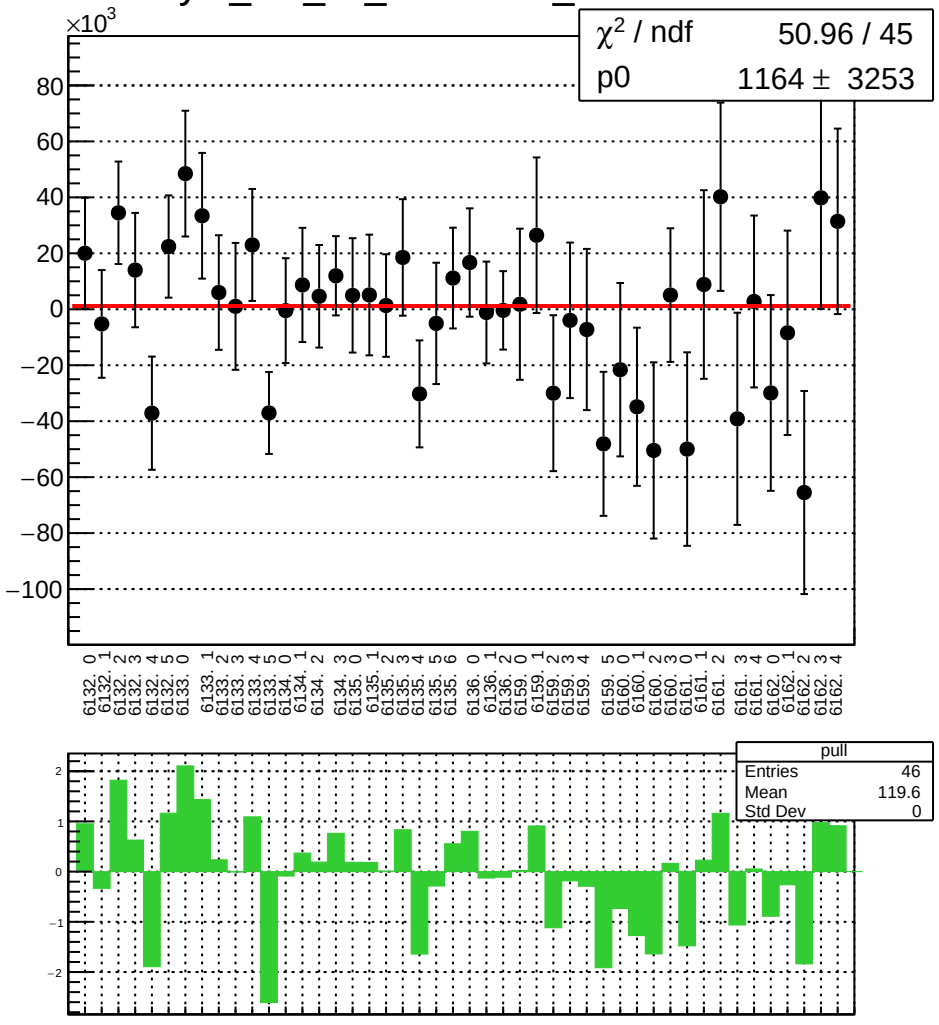

pull1D
Entries 46
Mean −0.0421
Std Dev 1.051

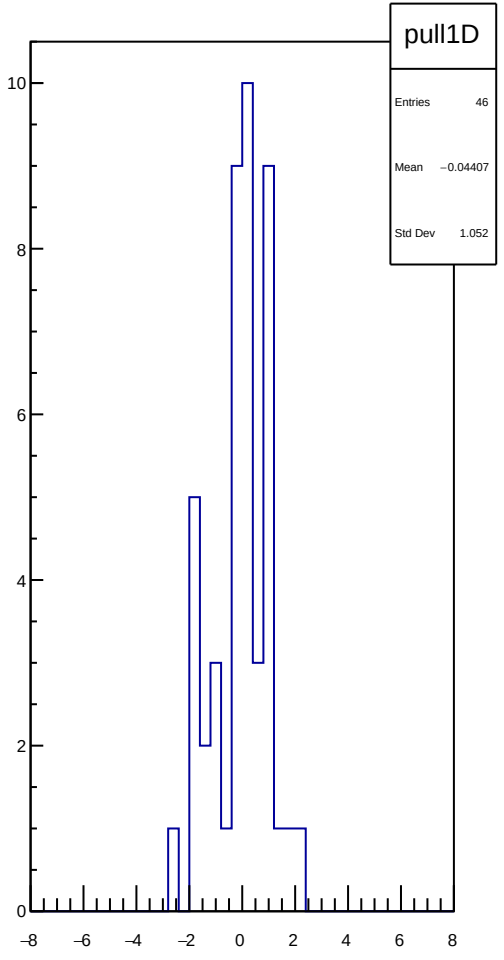

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 5.559e+04 / 45
p0 2088 ± 2.248
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

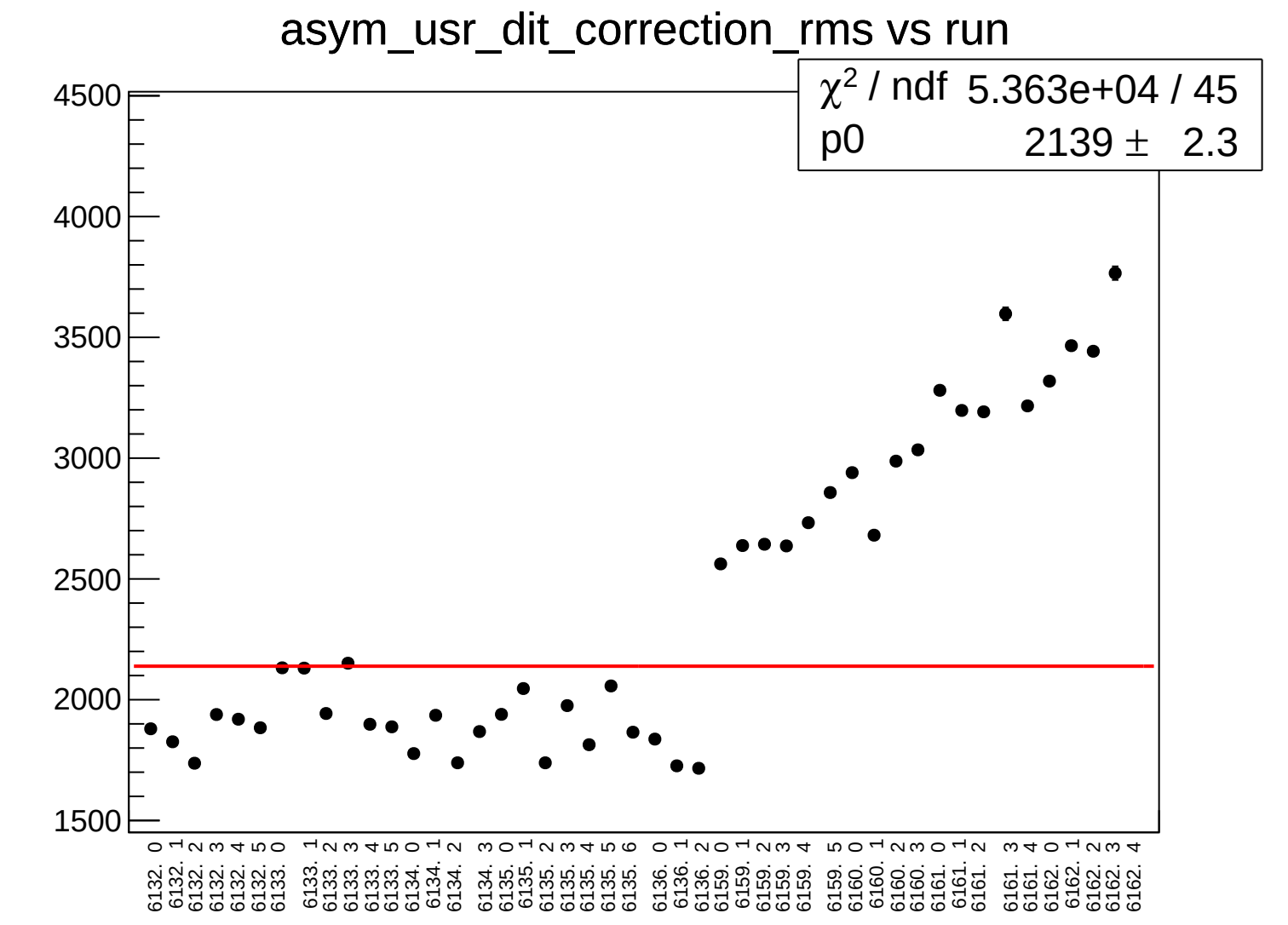

dit_asym_usr_mean vs run
χ^2 / ndf 43.05 / 45
p0 −3648 ± 1657
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −297
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

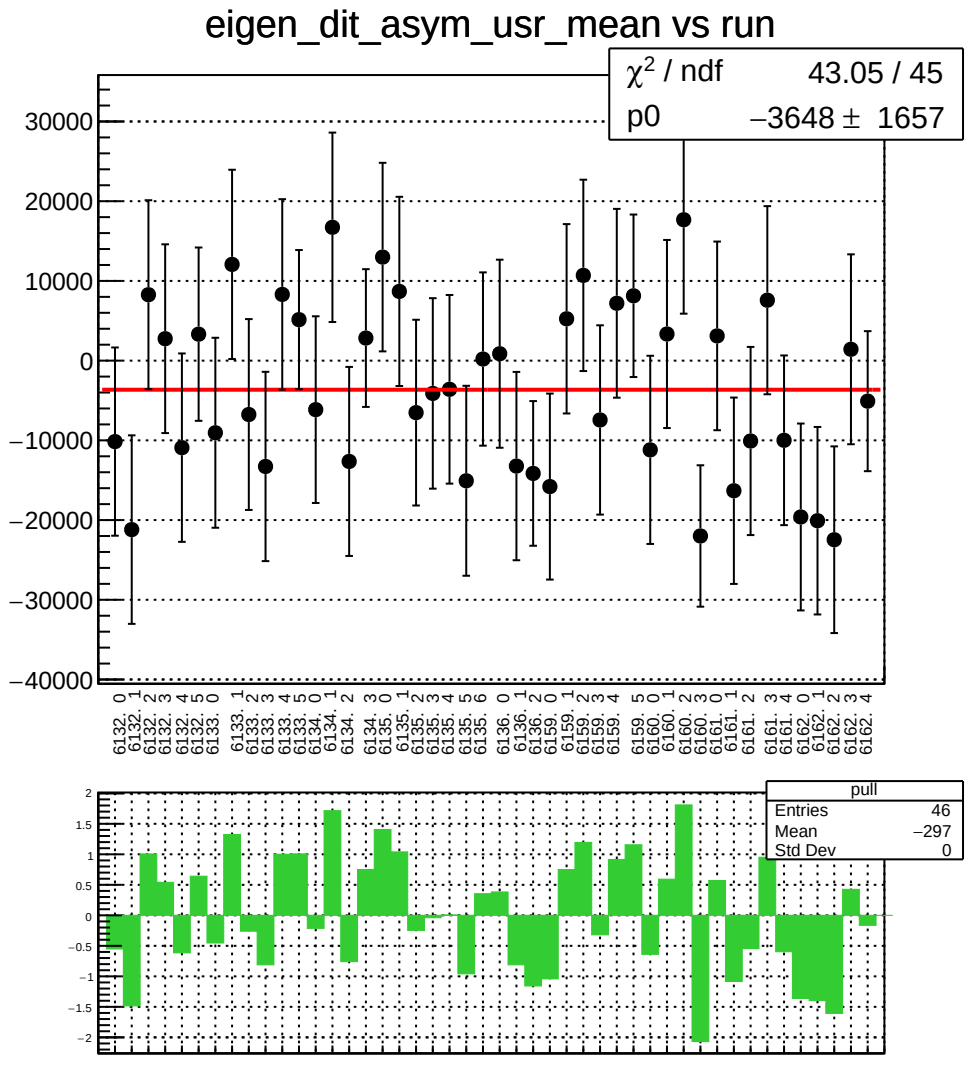

pull1D
Entries 46
Mean 0.007725
Std Dev 0.9674
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

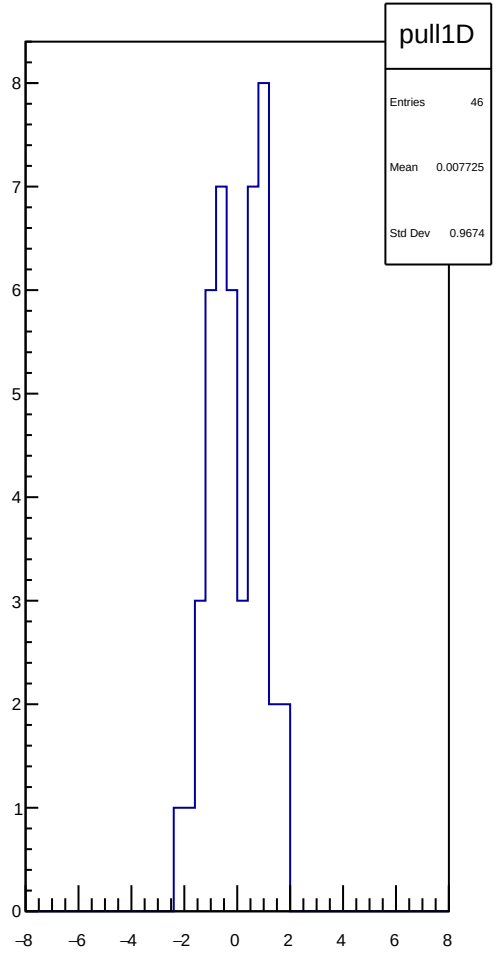

dit_asym_usr_rms vs run
χ² / ndf 46.23 / 45
p0 1123 ± 1.172
1150
1140
1130
1120
1110
1100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

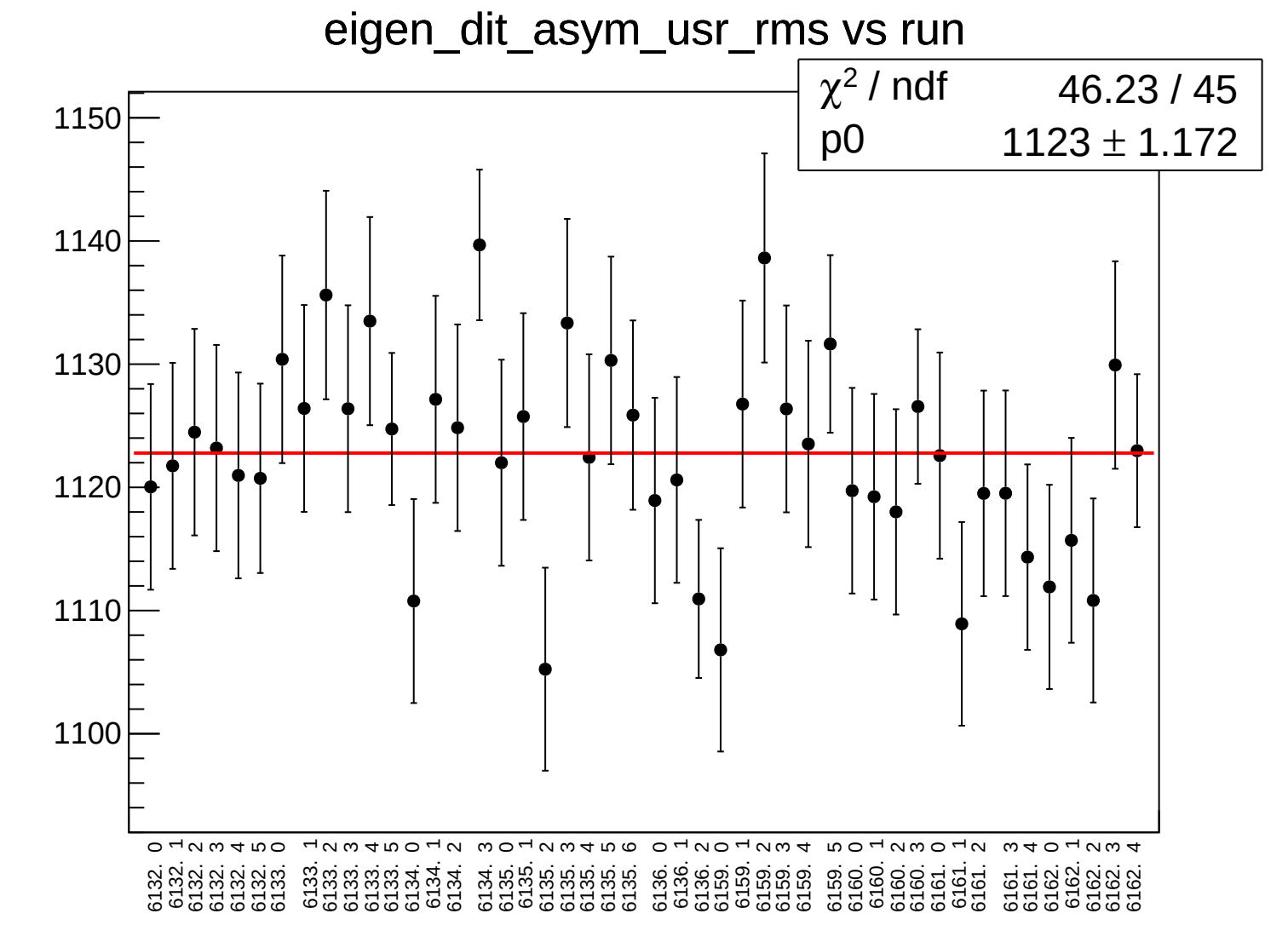

asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 50.96 / 45
p0 1164 ± 3253
pull
Entries 46
Mean 119.6
Std Dev 0

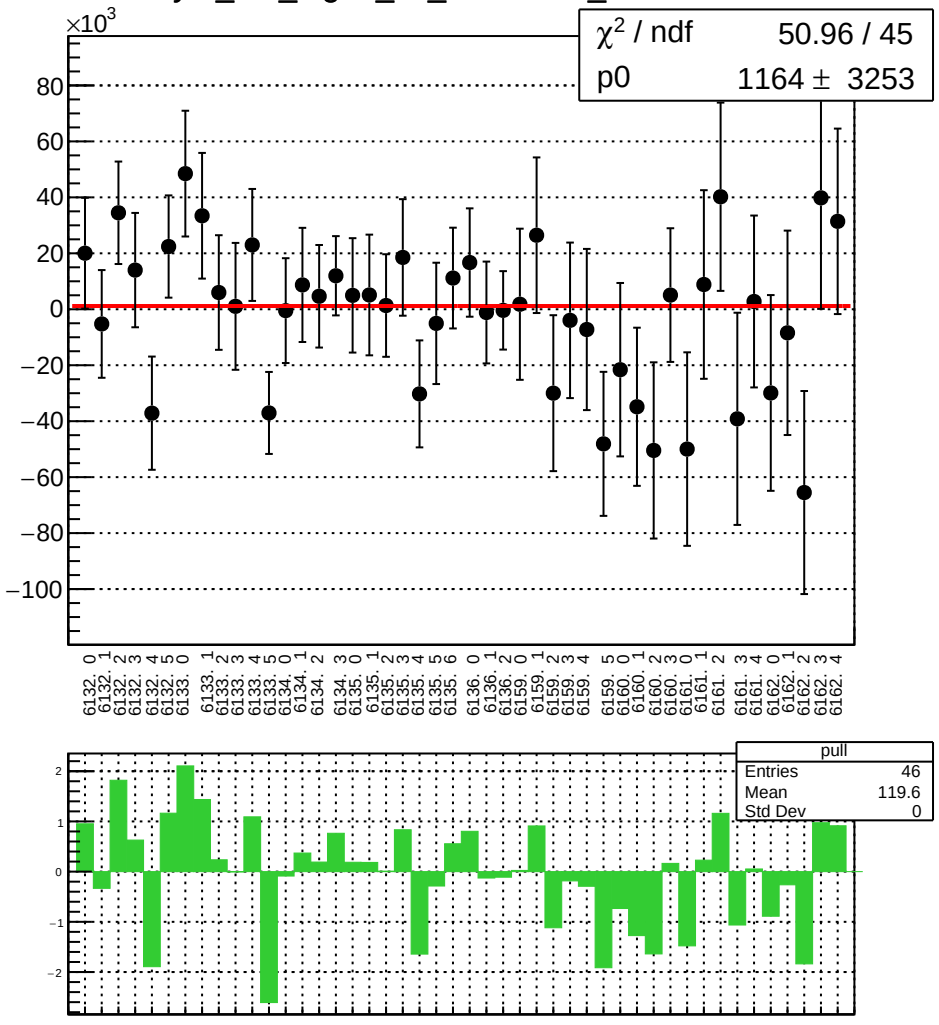

pull1D
Entries 46
Mean −0.04407
Std Dev 1.052

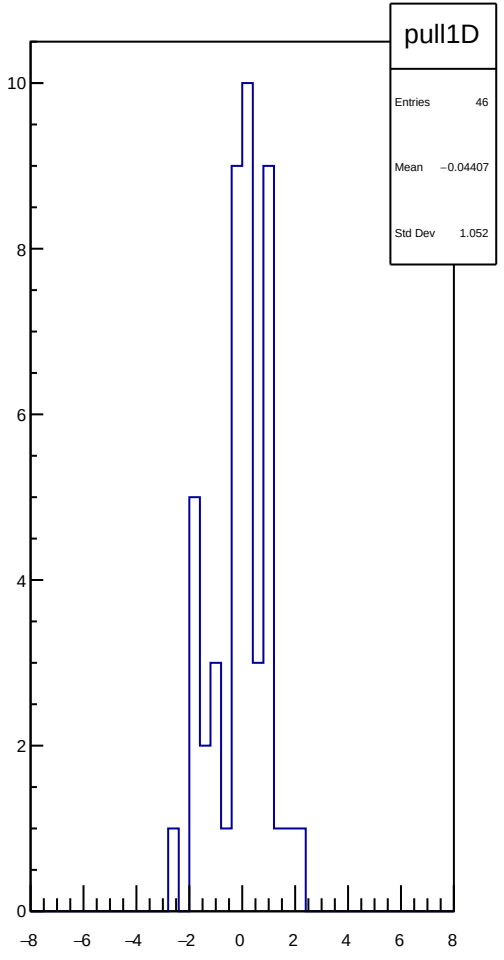

asym_usr_dit_correction_rms vs run
χ² / ndf 5.363e+04 / 45
p0 2139 ± 2.3
4500
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

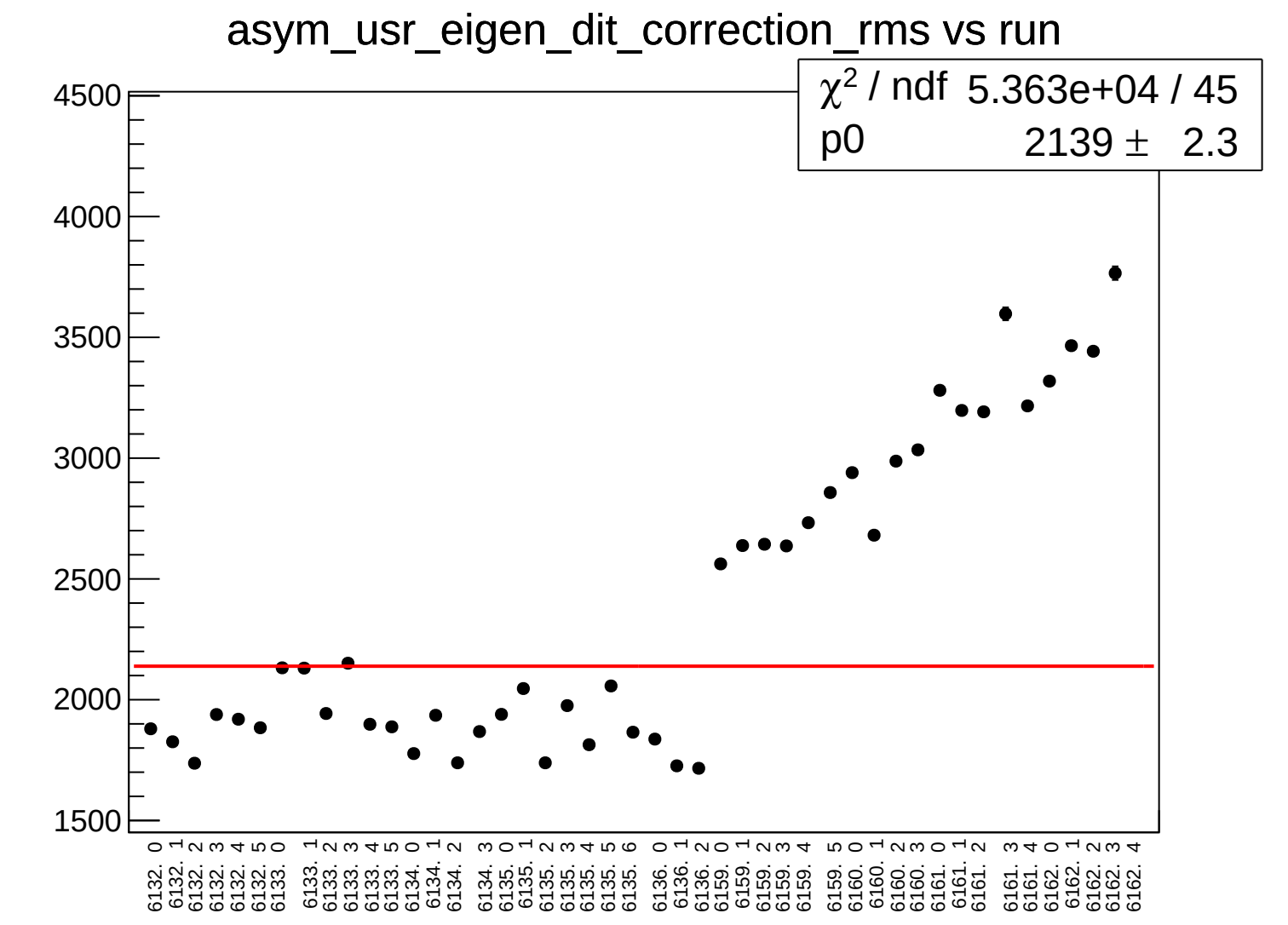

eigen_dit_asym_usr_mean vs run
χ² / ndf 43.05 / 45
p0 −3648 ± 1657
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −297
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

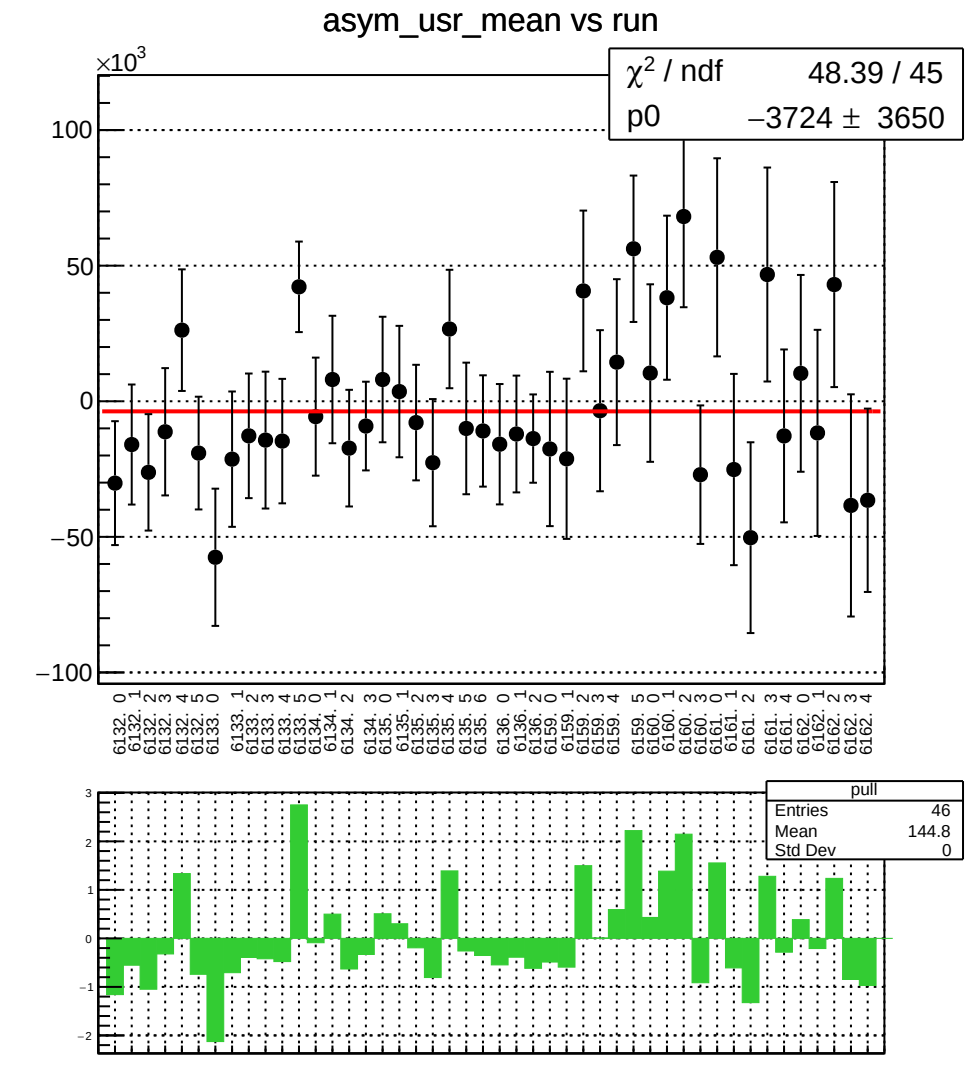

pull1D
Entries 46
Mean 0.007725
Std Dev 0.9674
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

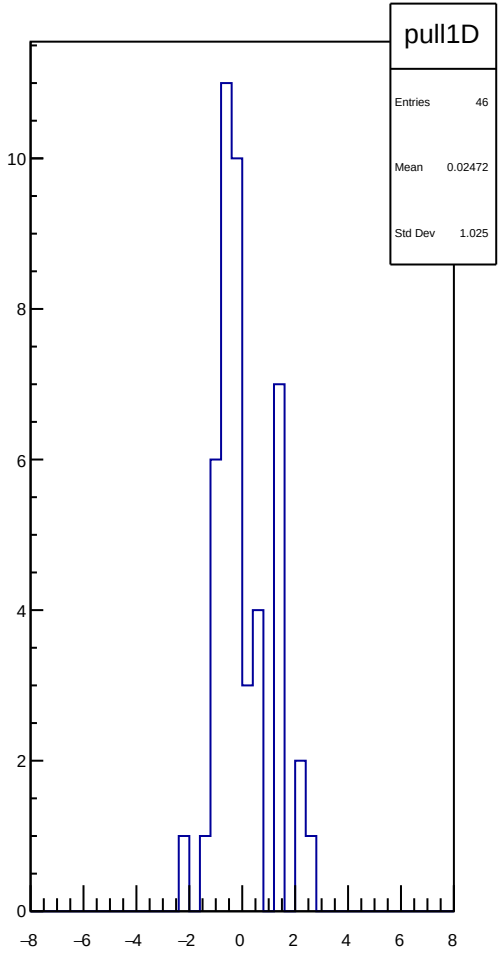

eigen_dit_asym_usr_rms vs run
χ² / ndf 46.23 / 45
p0 1123 ± 1.172
1150
1140
1130
1120
1110
1100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

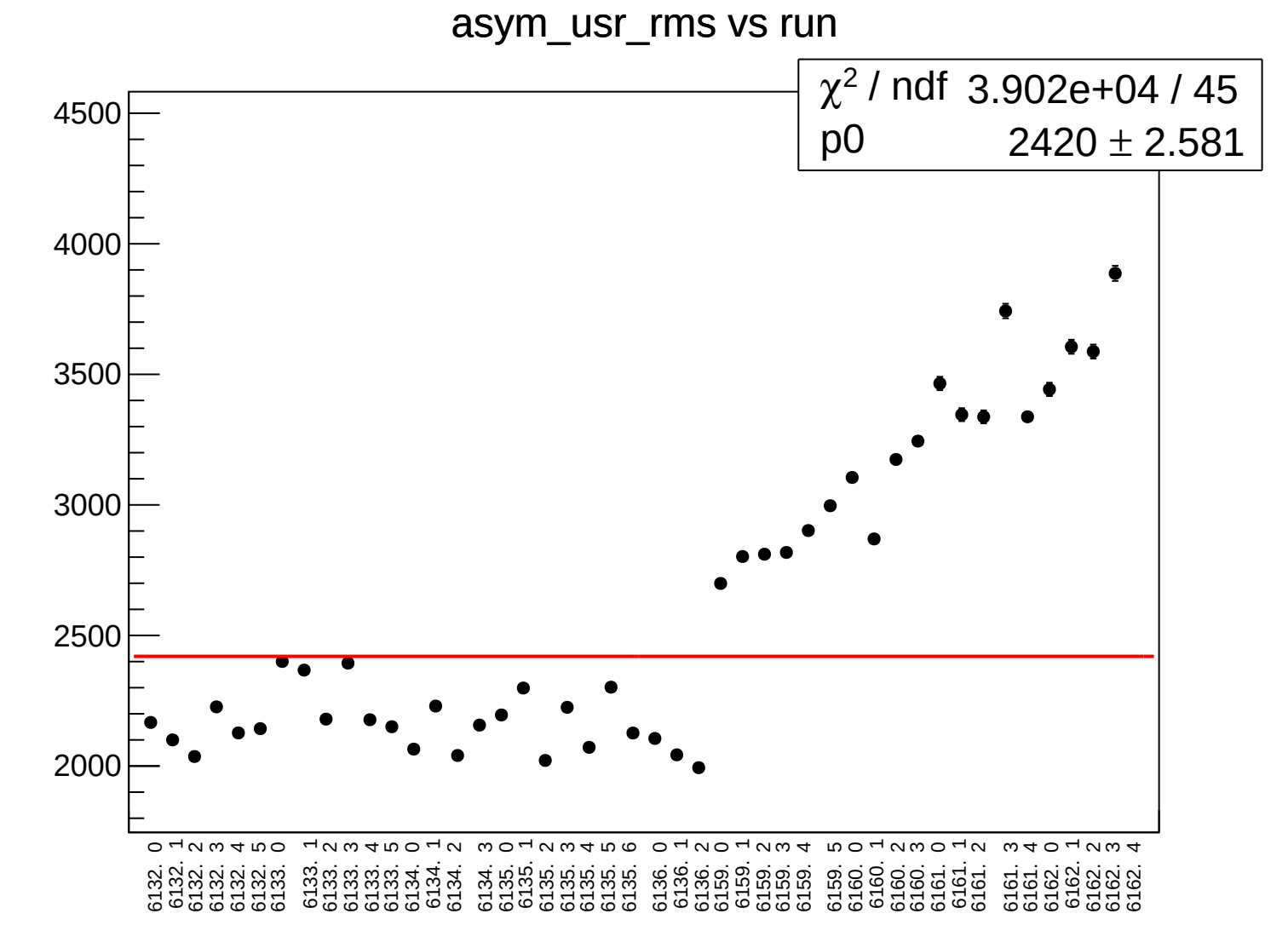

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 50.96 / 45
p0 1164 ± 3253
80
60
40
20
0
−20
−40
−60
−80
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 119.6
Std Dev 0
2
1
0
−1
−2

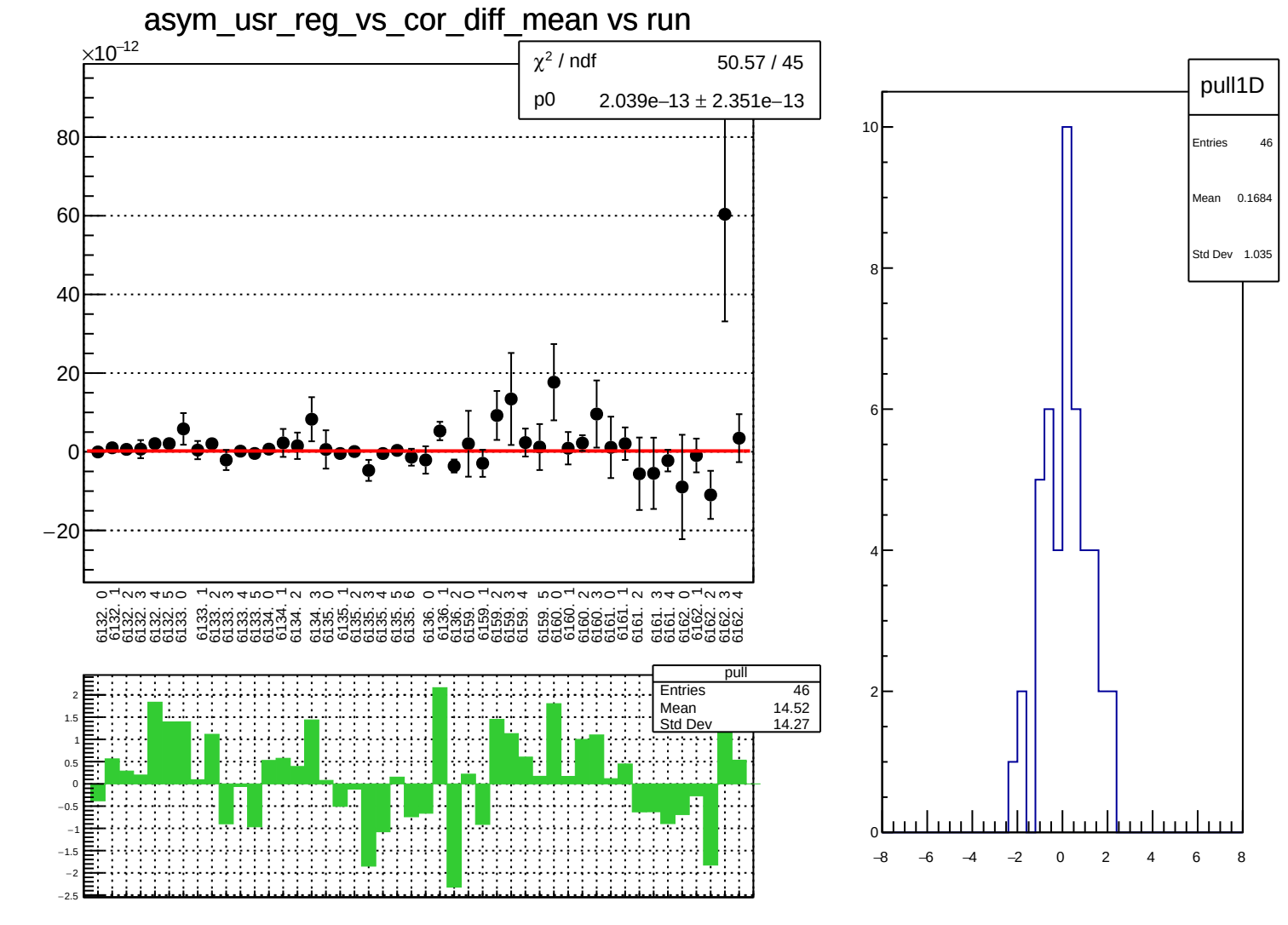

pull1D
Entries 46
Mean −0.04407
Std Dev 1.052
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

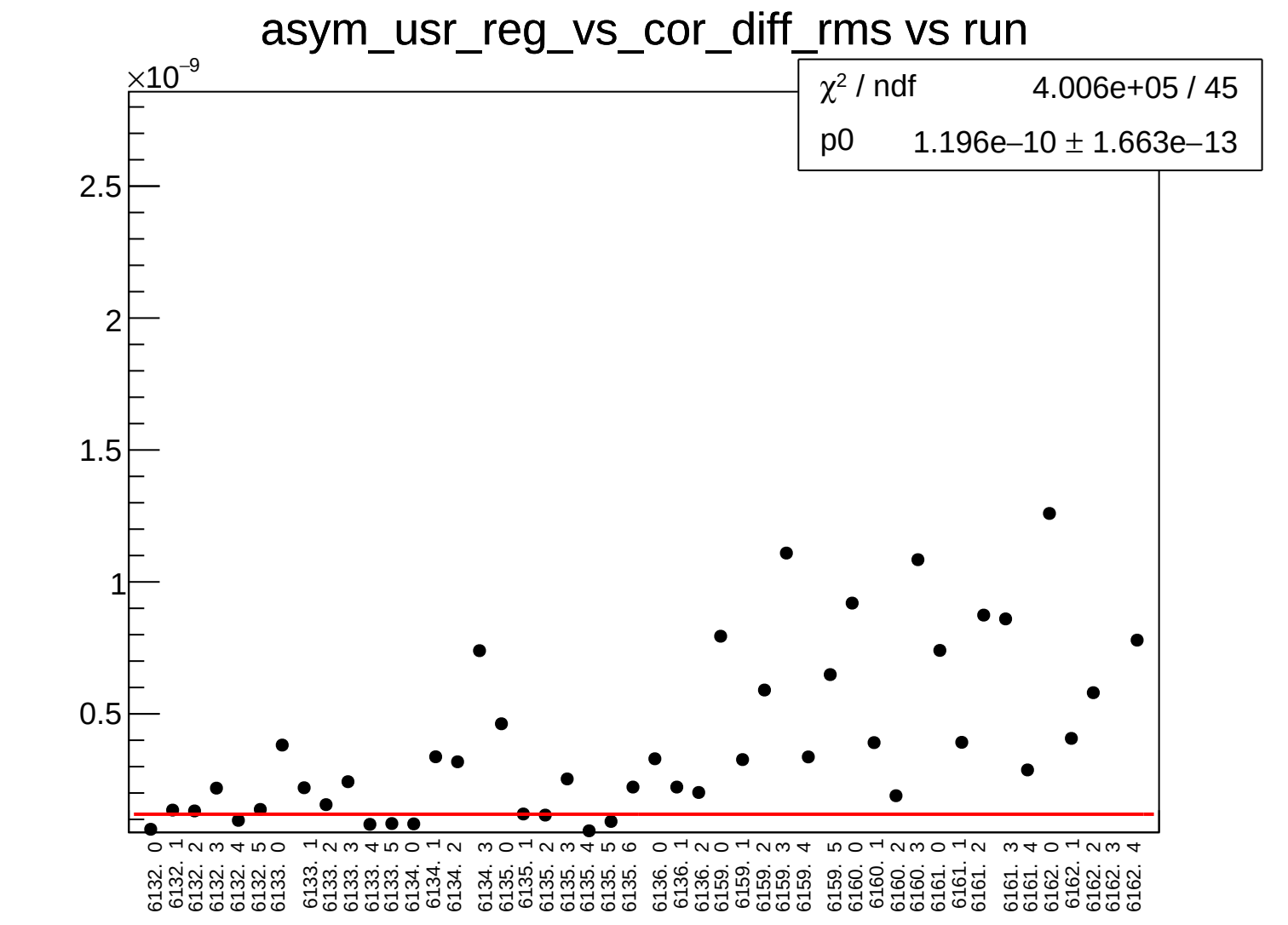

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 5.363e+04 / 45
p0 2139 ± 2.3
4500
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

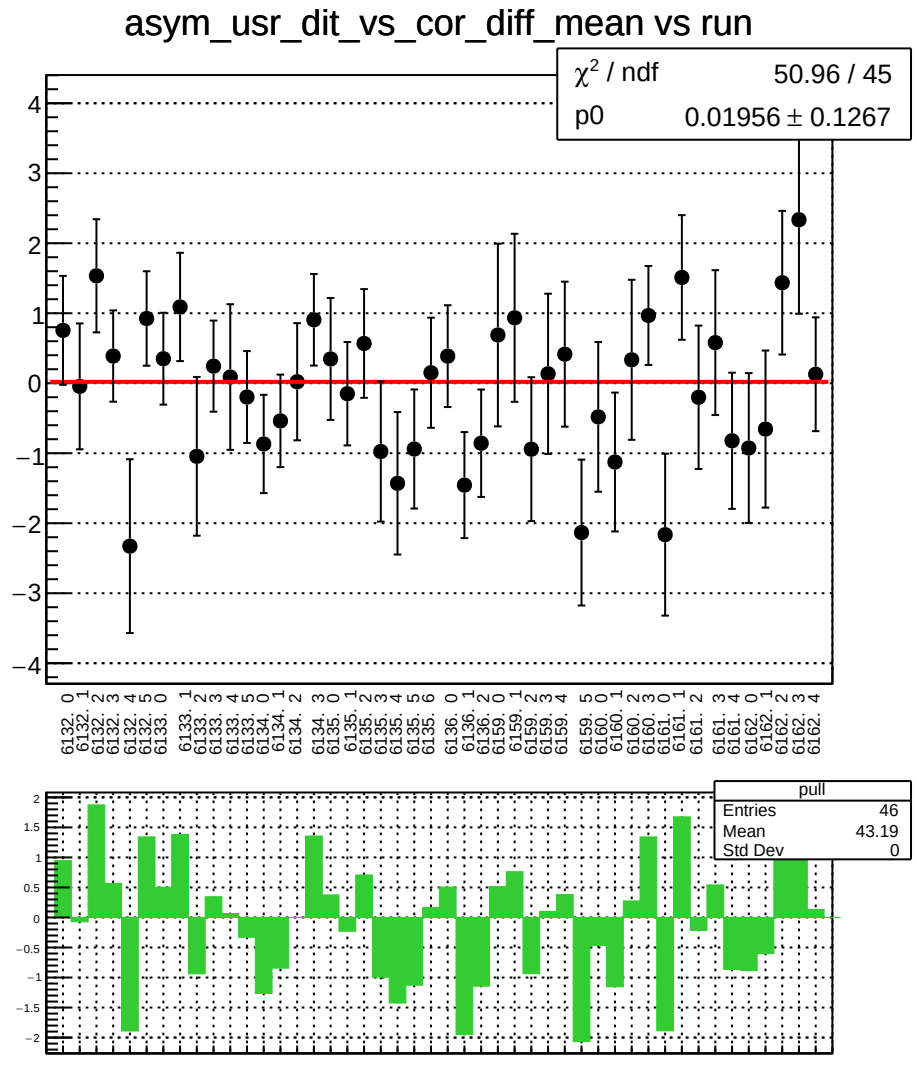

asym_usr_mean vs run
×10^3
χ² / ndf 48.39 / 45
p0 −3724 ± 3650
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 144.8
Std Dev 0
3
2
1
0
−1
−2

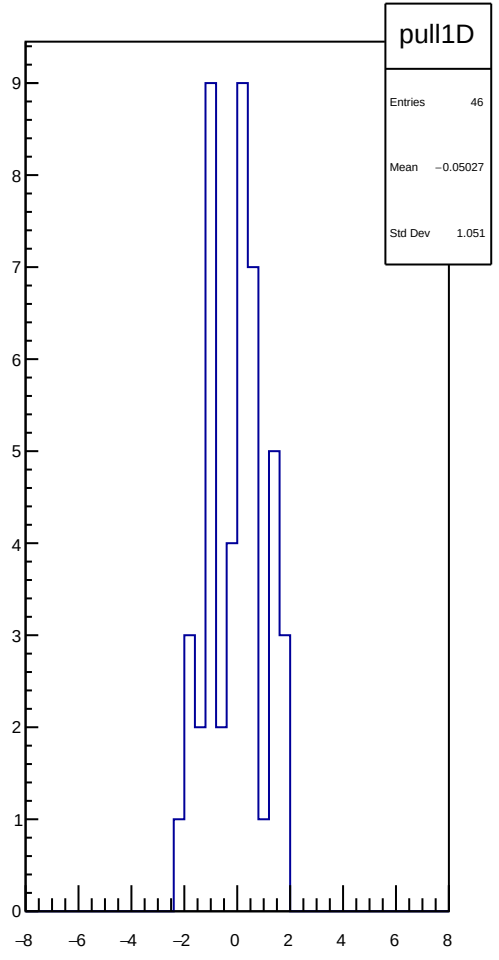

pull1D
Entries 46
Mean 0.02472
Std Dev 1.025
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

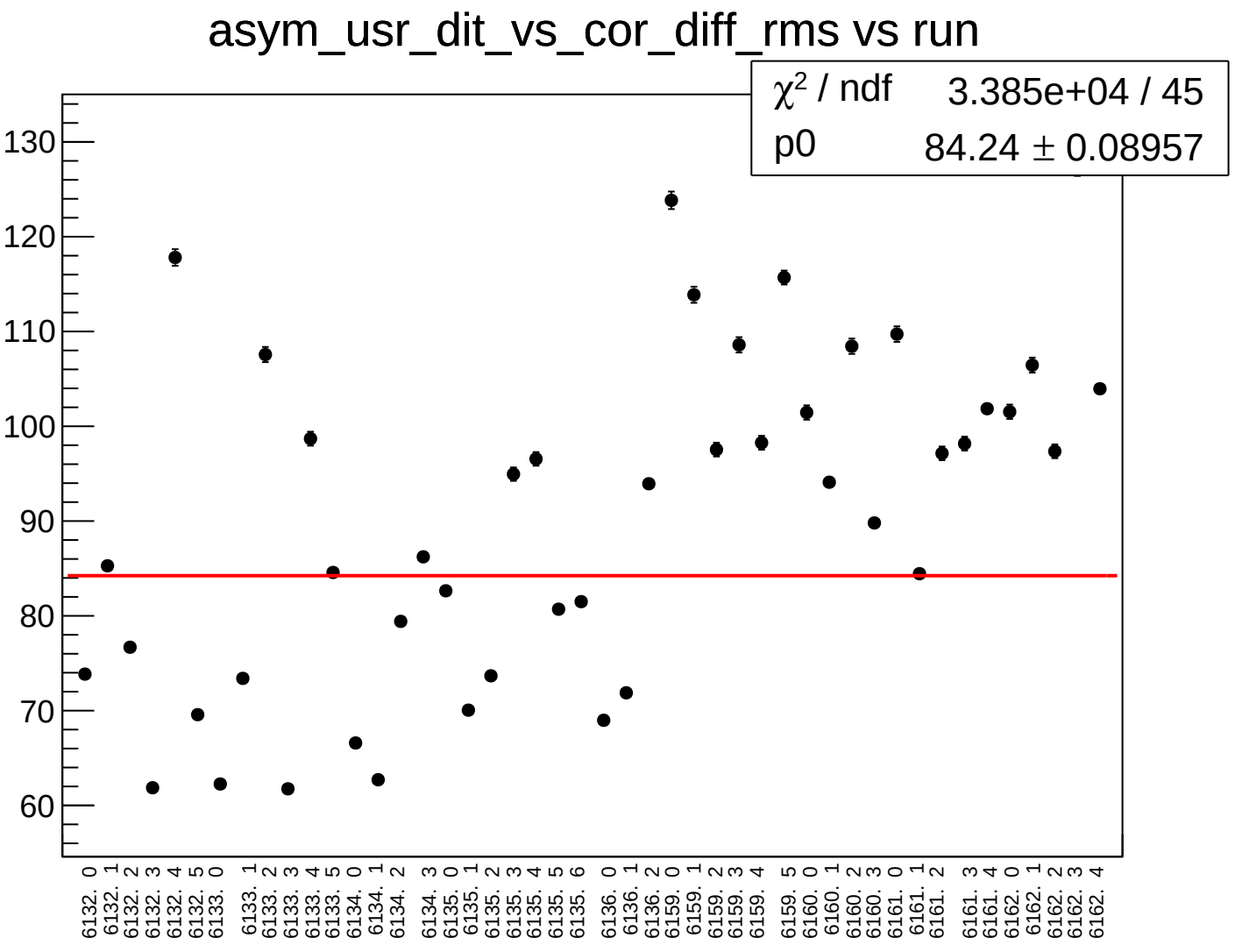

asym_usr_rms vs run
χ² / ndf 3.902e+04 / 45
p0 2420 ± 2.581
4500
4000
3500
3000
2500
2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

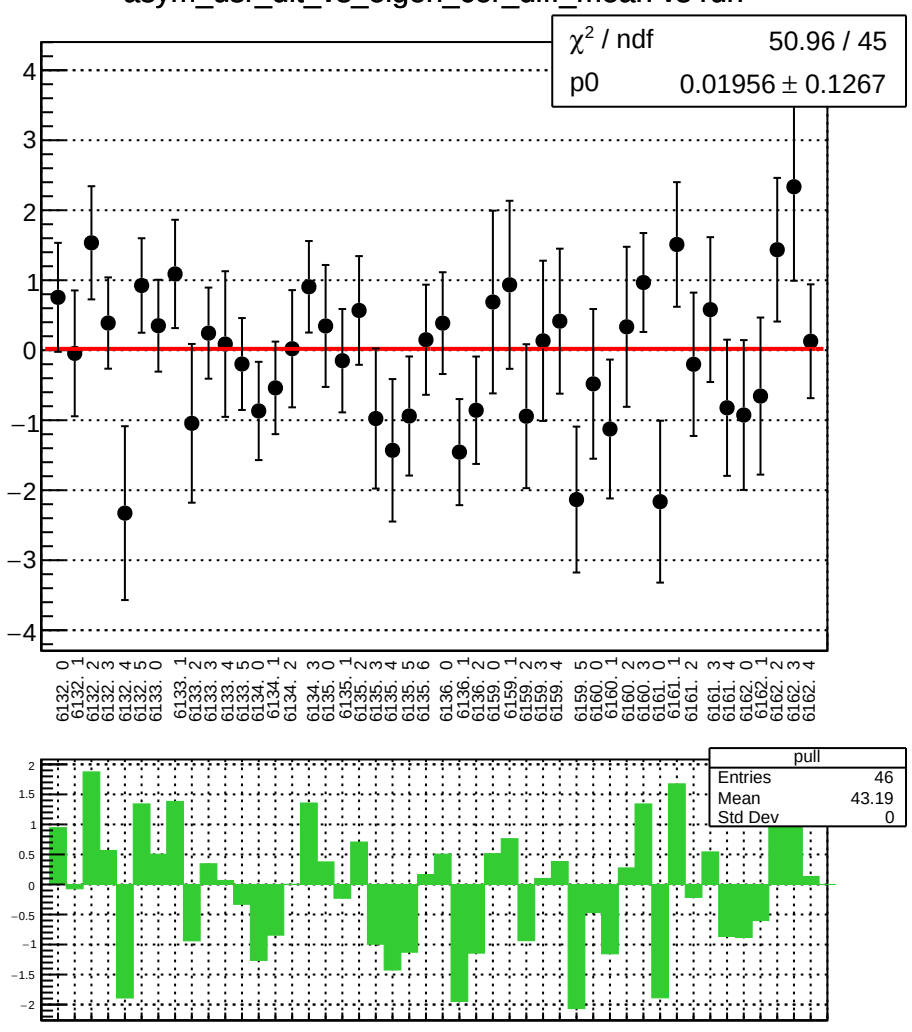

asym_usr_reg_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 50.57 / 45
p0 2.039e−13 ± 2.351e−13
80
60
40
20
0
−20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 14.52
Std Dev 14.27
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean 0.1684
Std Dev 1.035
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

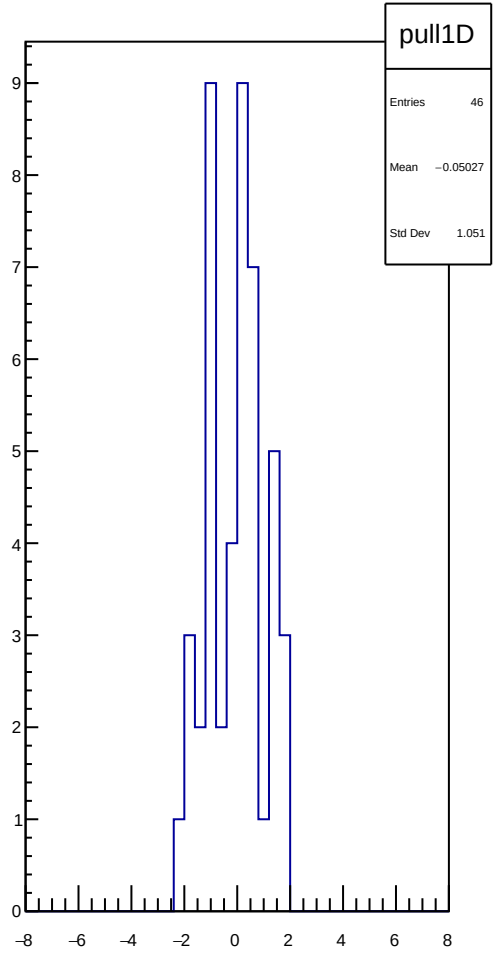

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.006e+05 / 45
p0 1.196e−10 ± 1.663e−13
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

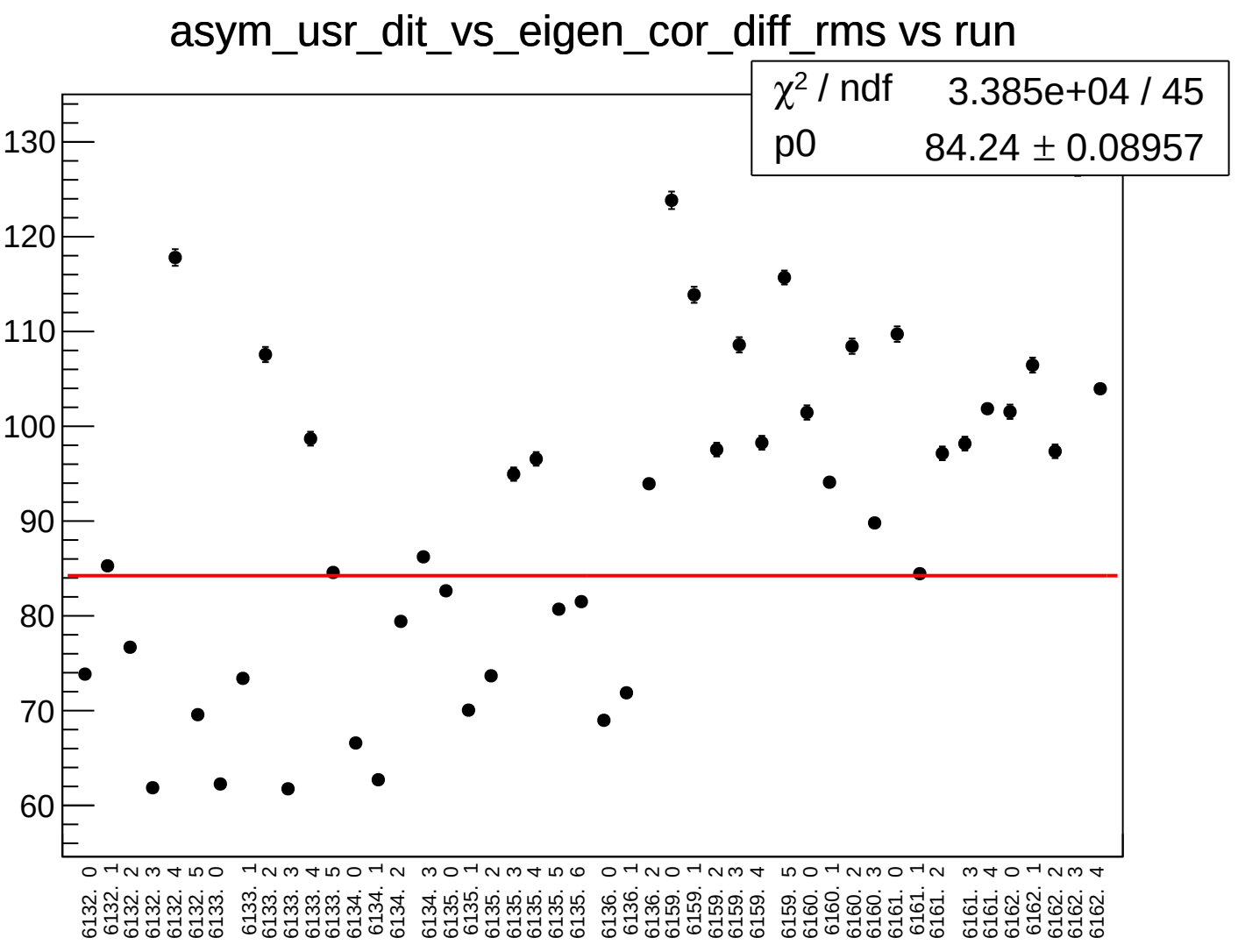

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 50.96 / 45
p0 0.01956 ± 0.1267
pull
Entries 46
Mean 43.19
Std Dev 0


pull1D
Entries 46
Mean −0.05027
Std Dev 1.051

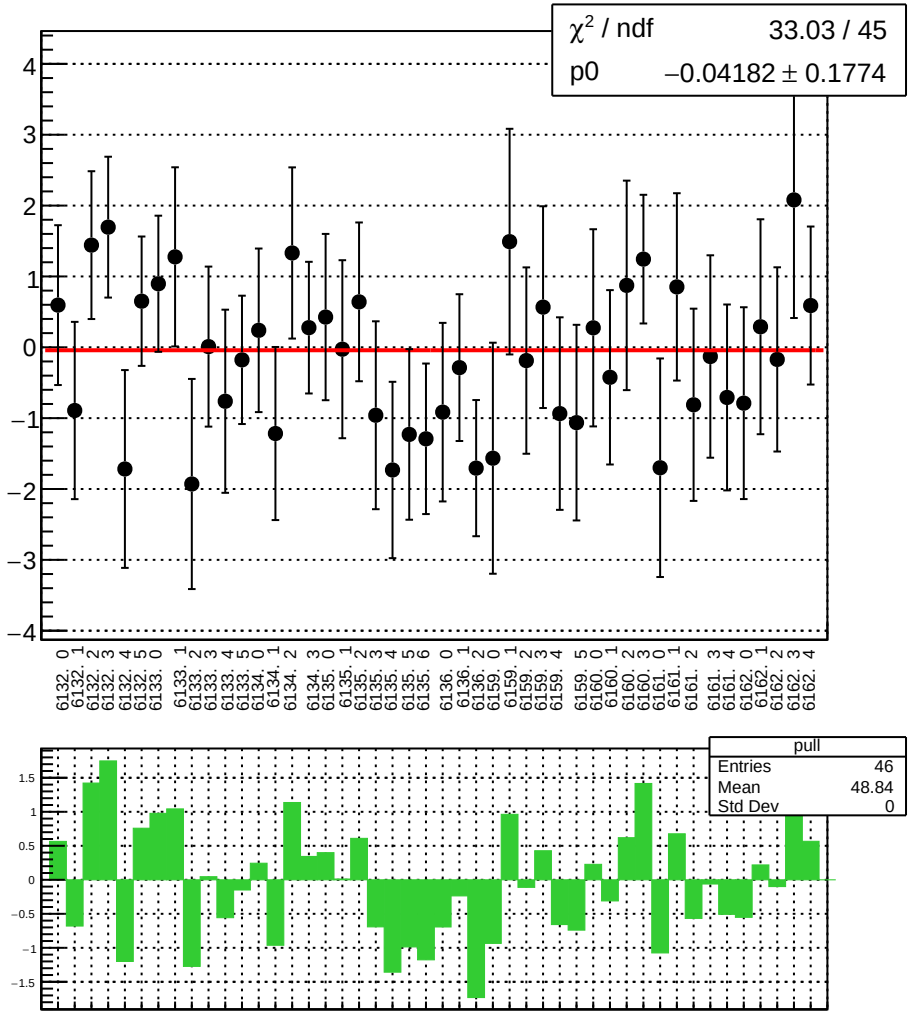

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 3.385e+04 / 45
p0 84.24 ± 0.08957
130
120
110
100
90
80
70
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

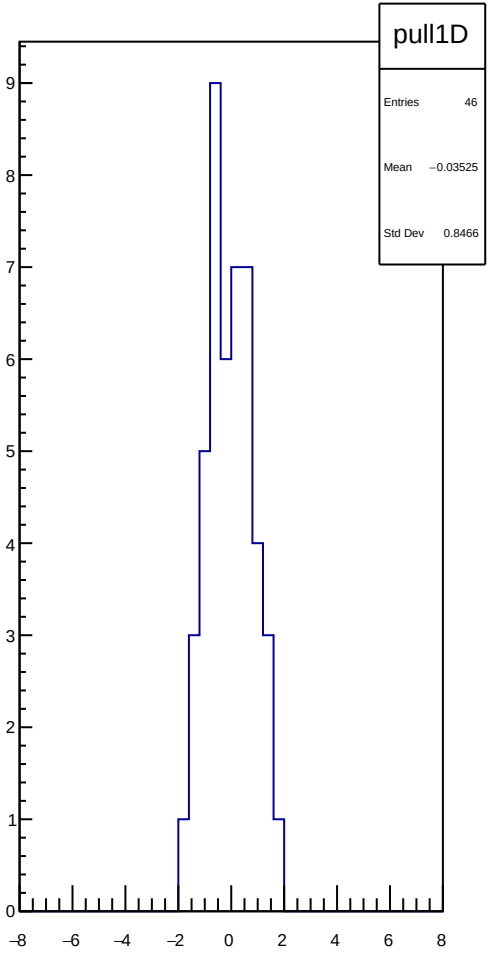

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.96 / 45
p0 0.01956 ± 0.1267
pull
Entries 46
Mean 43.19
Std Dev 0

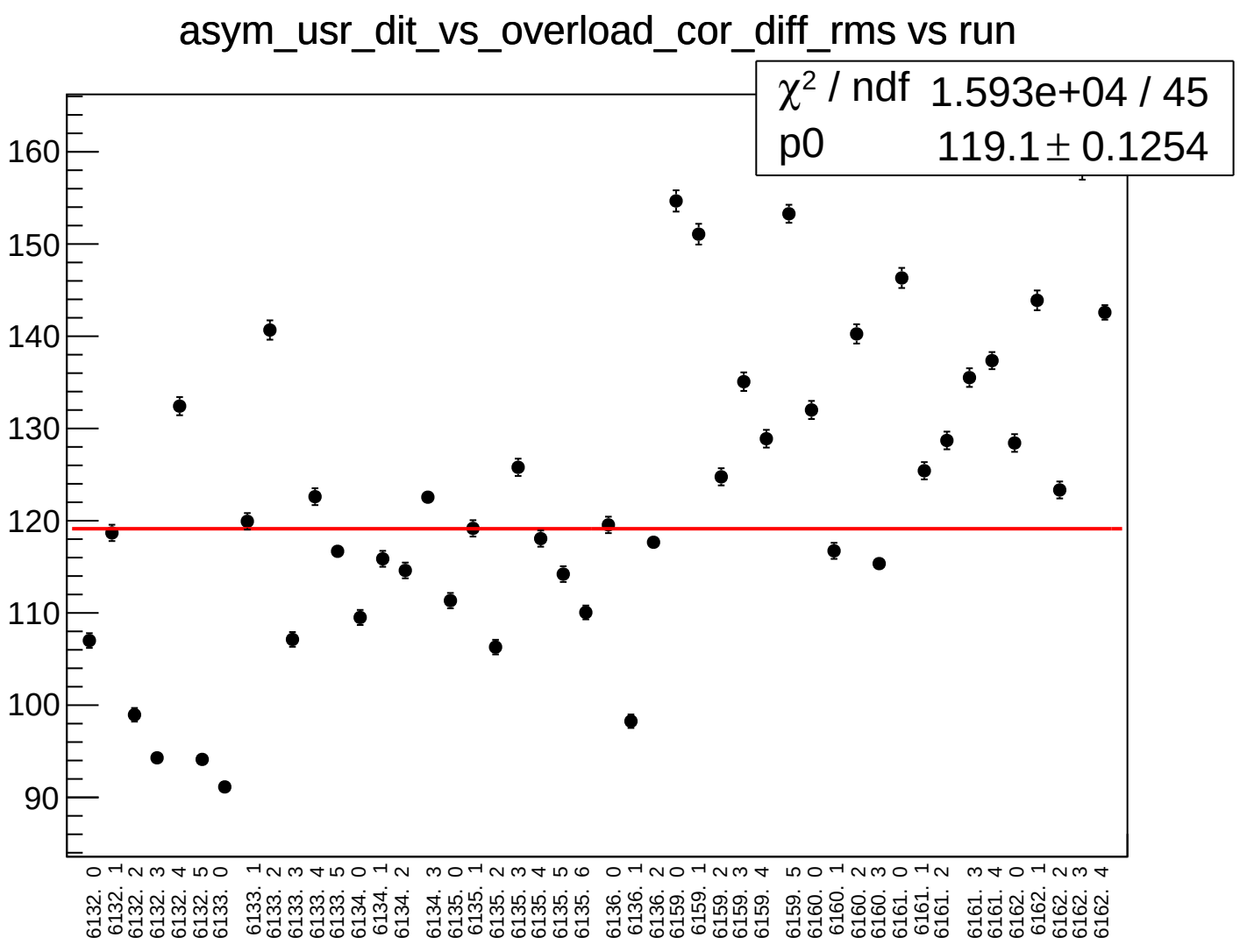

pull1D
Entries 46
Mean −0.05027
Std Dev 1.051

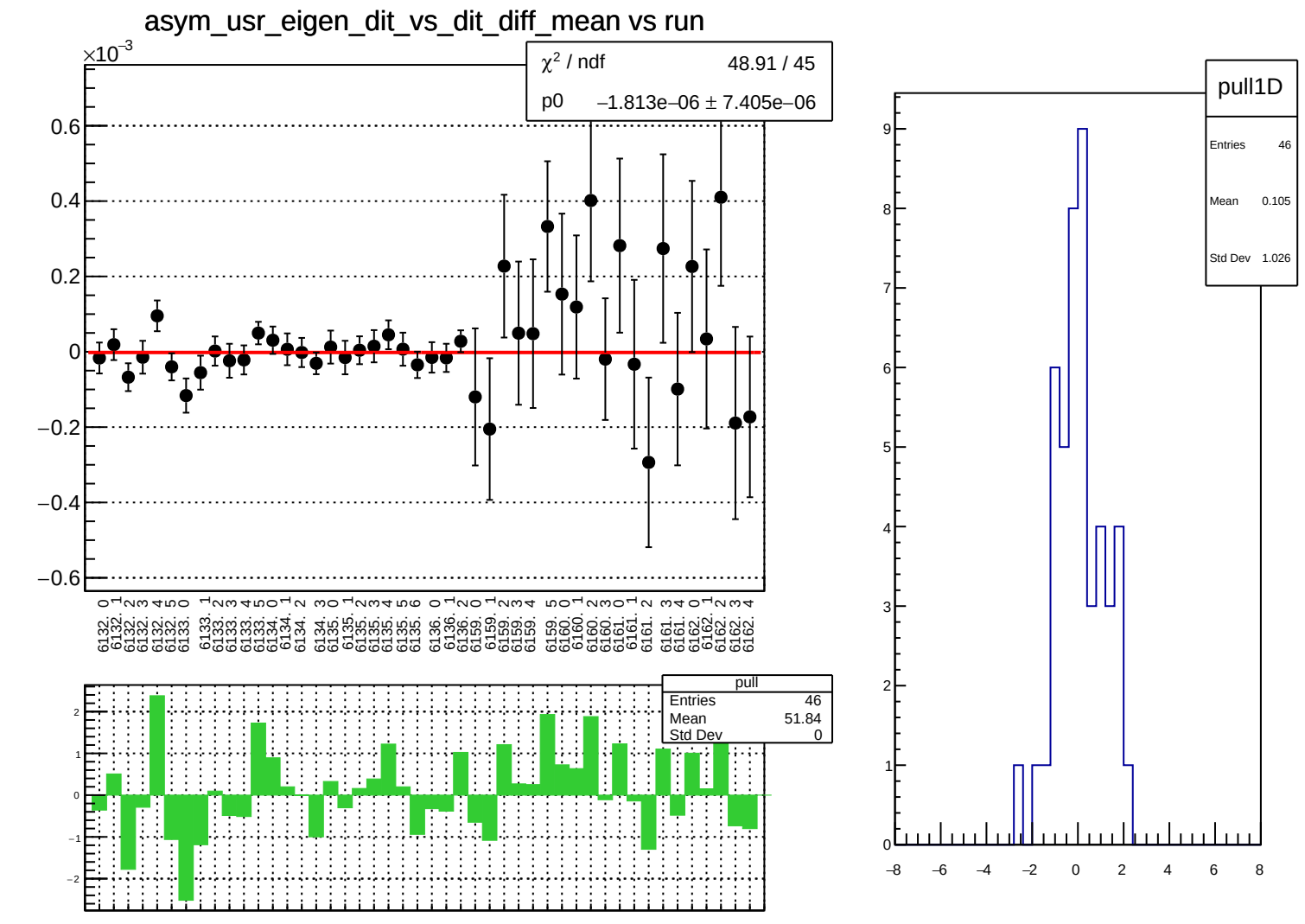

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.385e+04 / 45
p0 84.24 ± 0.08957
130
120
110
100
90
80
70
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

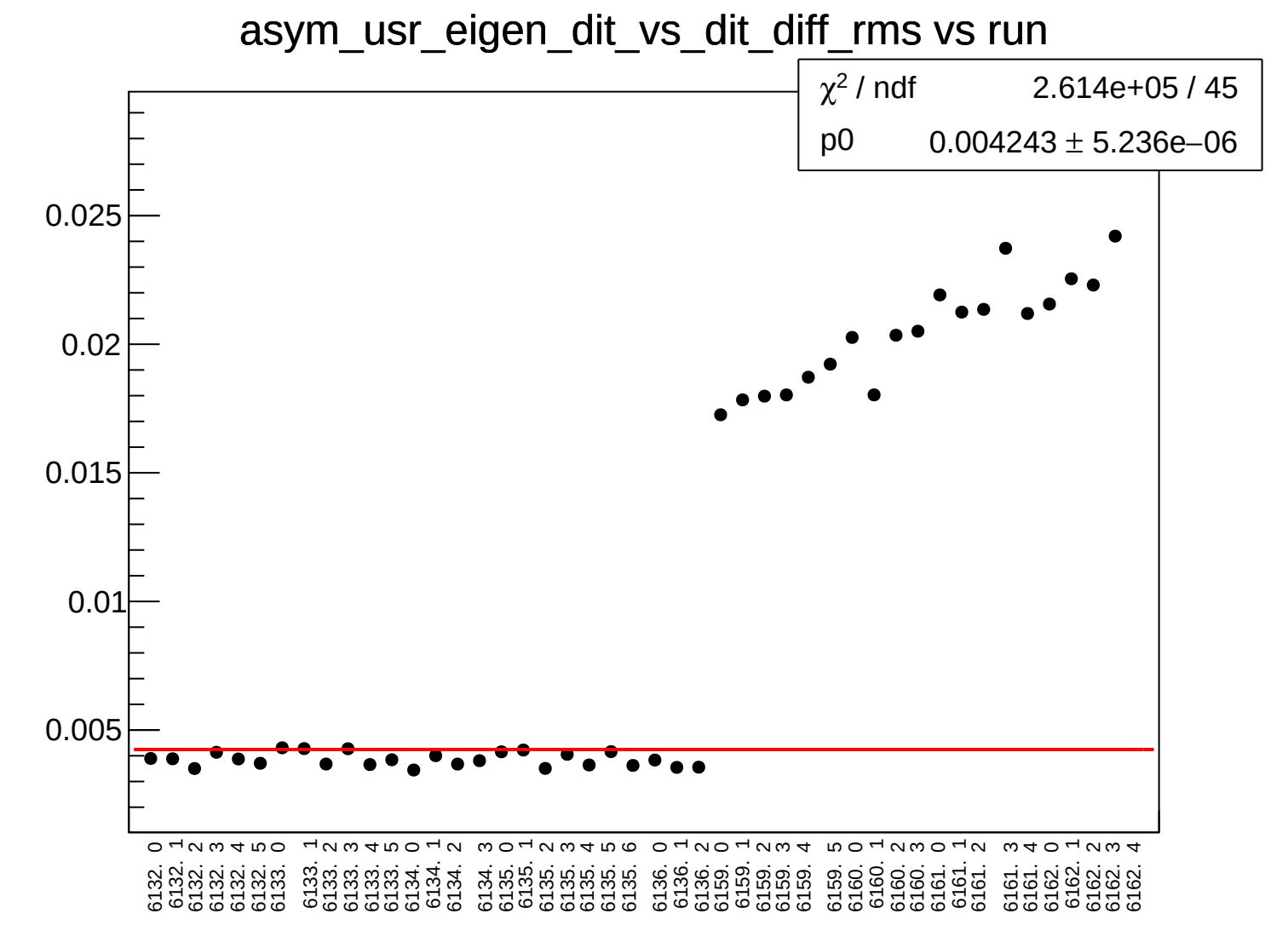
asym_usr_dit_vs_overload_cor_diff_mean vs run

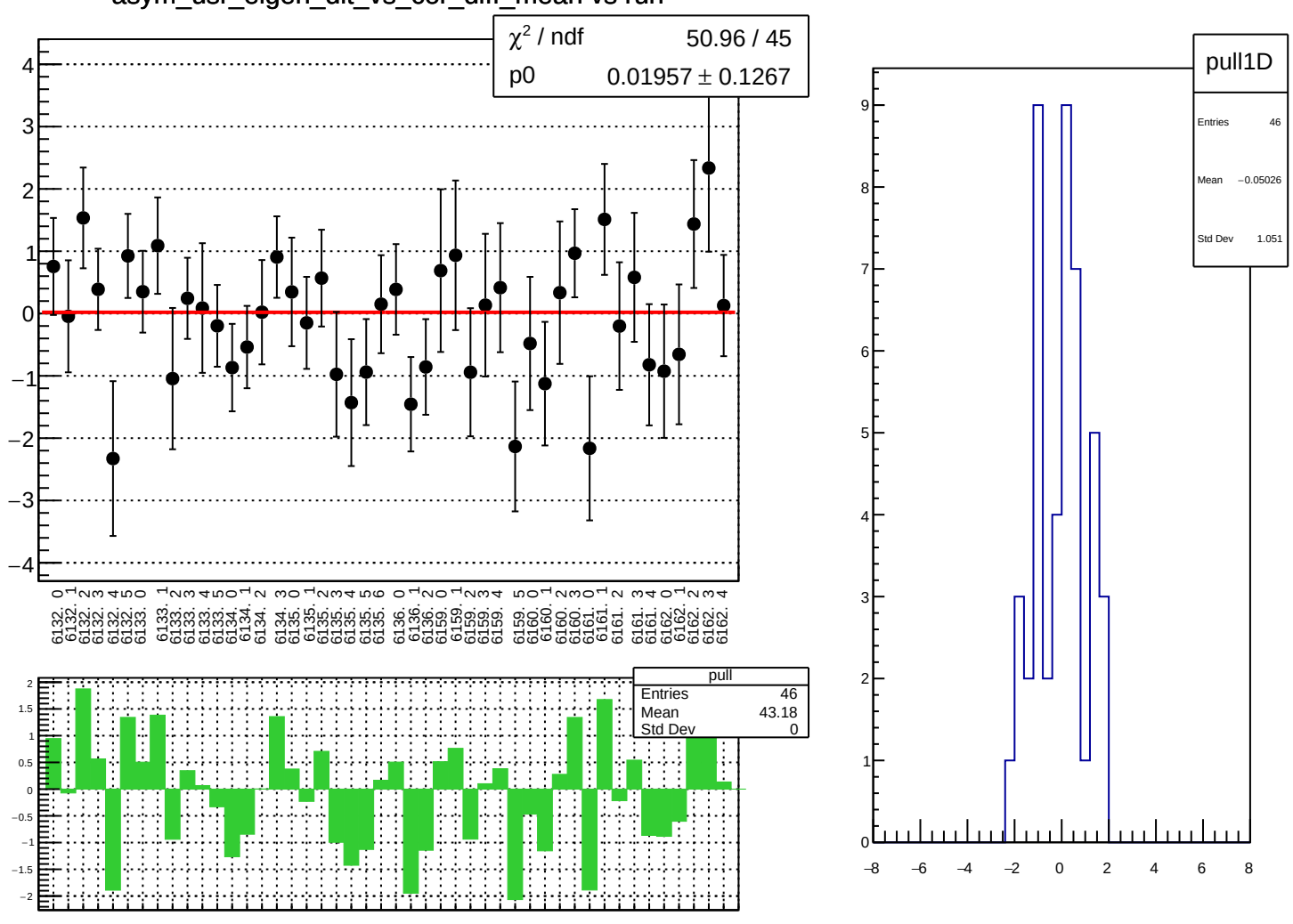


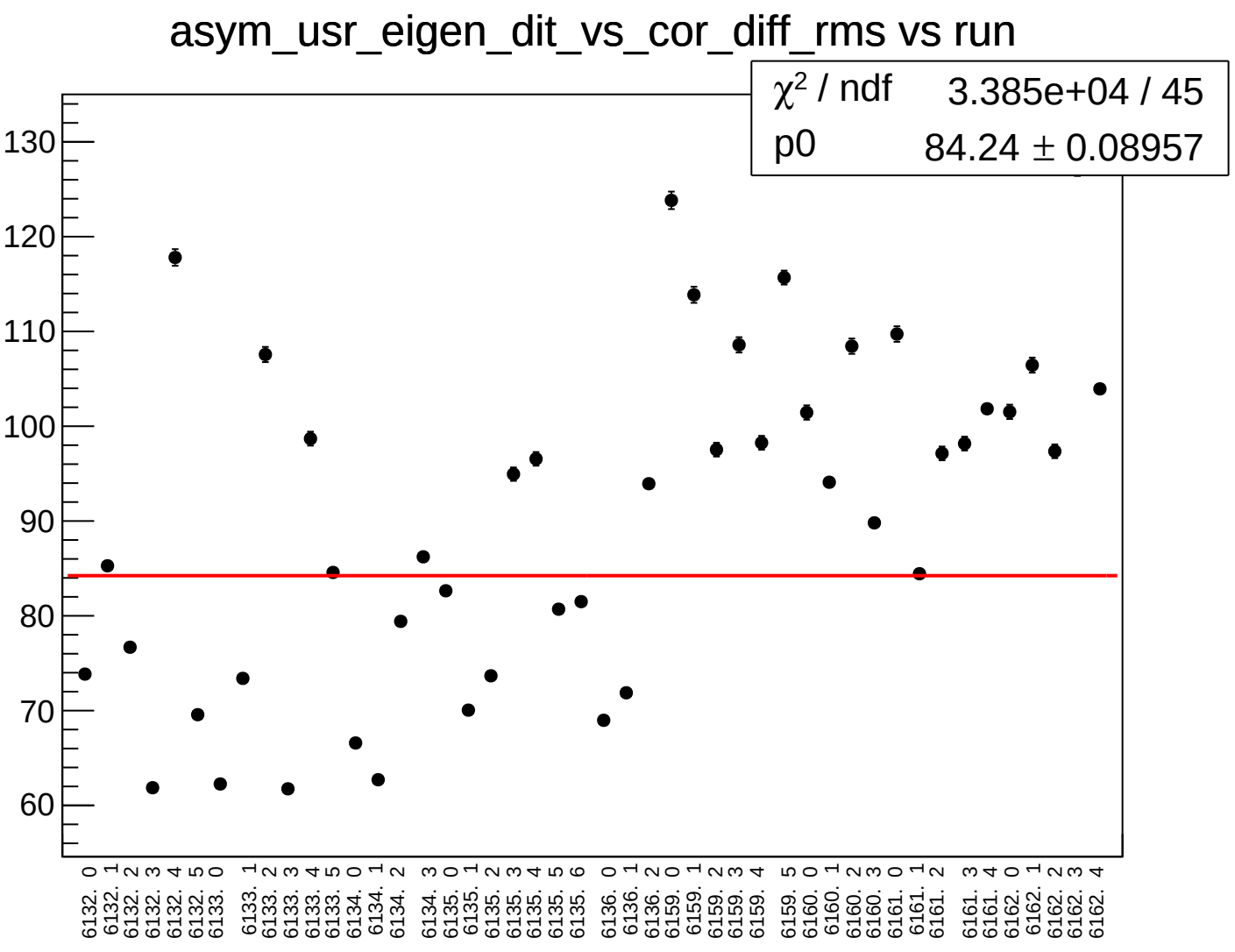



asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.593e+04 / 45
p0 119.1 ± 0.1254
160
150
140
130
120
110
100
90
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

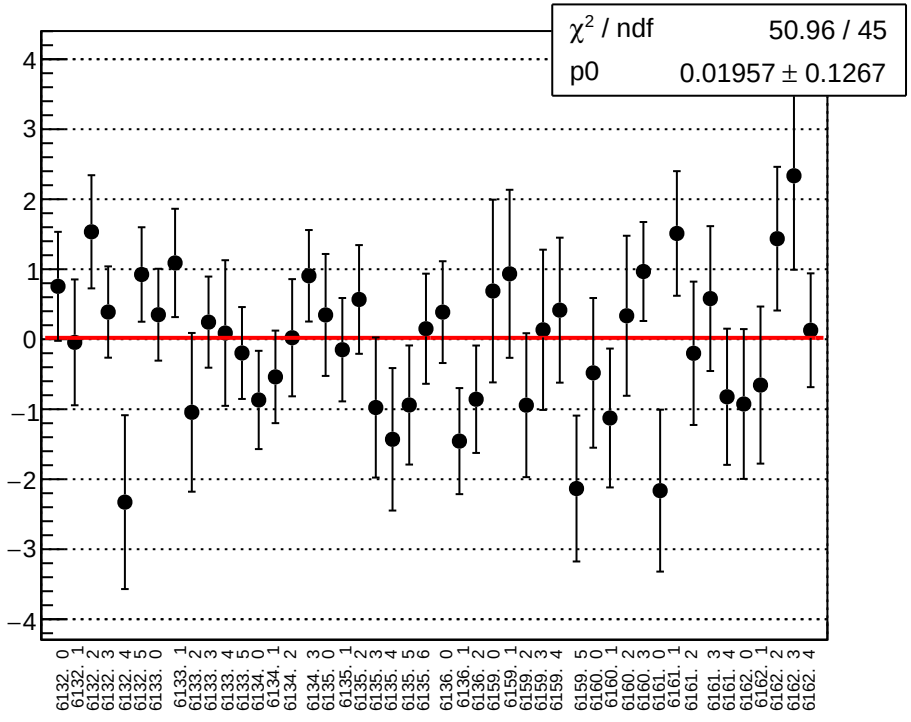

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 48.91 / 45
p0 −1.813e−06 ± 7.405e−06
pull
Entries 46
Mean 51.84
Std Dev 0
pull1D
Entries 46
Mean 0.105
Std Dev 1.026

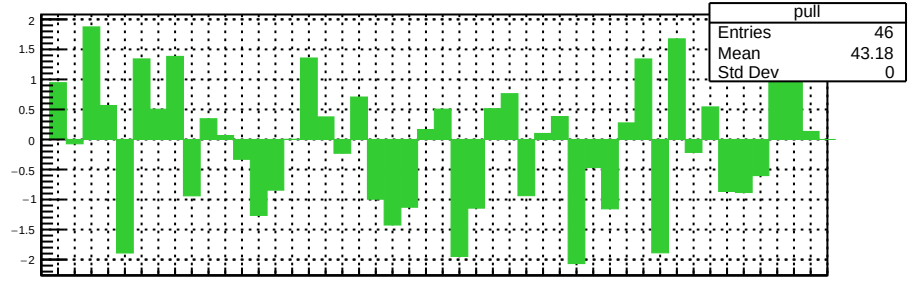

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.614e+05 / 45
p0 0.004243 ± 5.236e−06
0.025
0.02
0.015
0.01
0.005
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

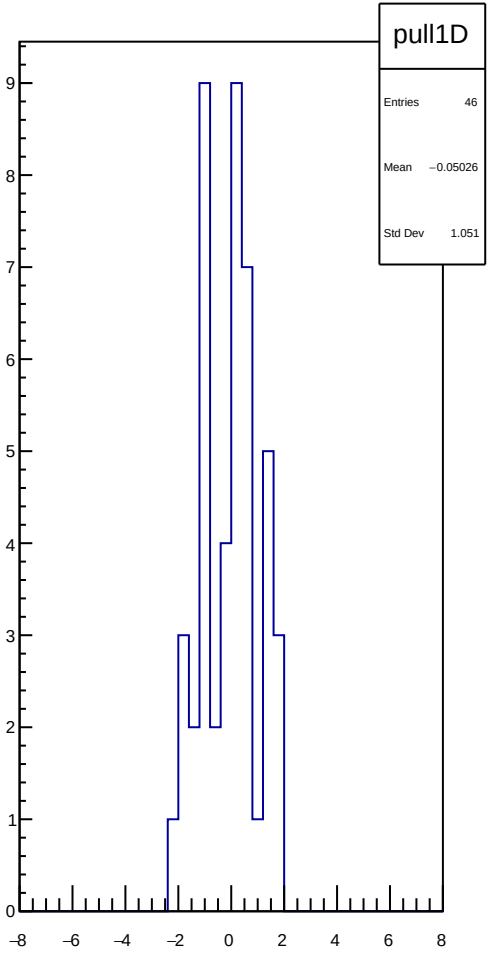

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 50.96 / 45
p0 0.01957 ± 0.1267
pull
Entries 46
Mean 43.18
Std Dev 0
pull1D
Entries 46
Mean −0.05026
Std Dev 1.051

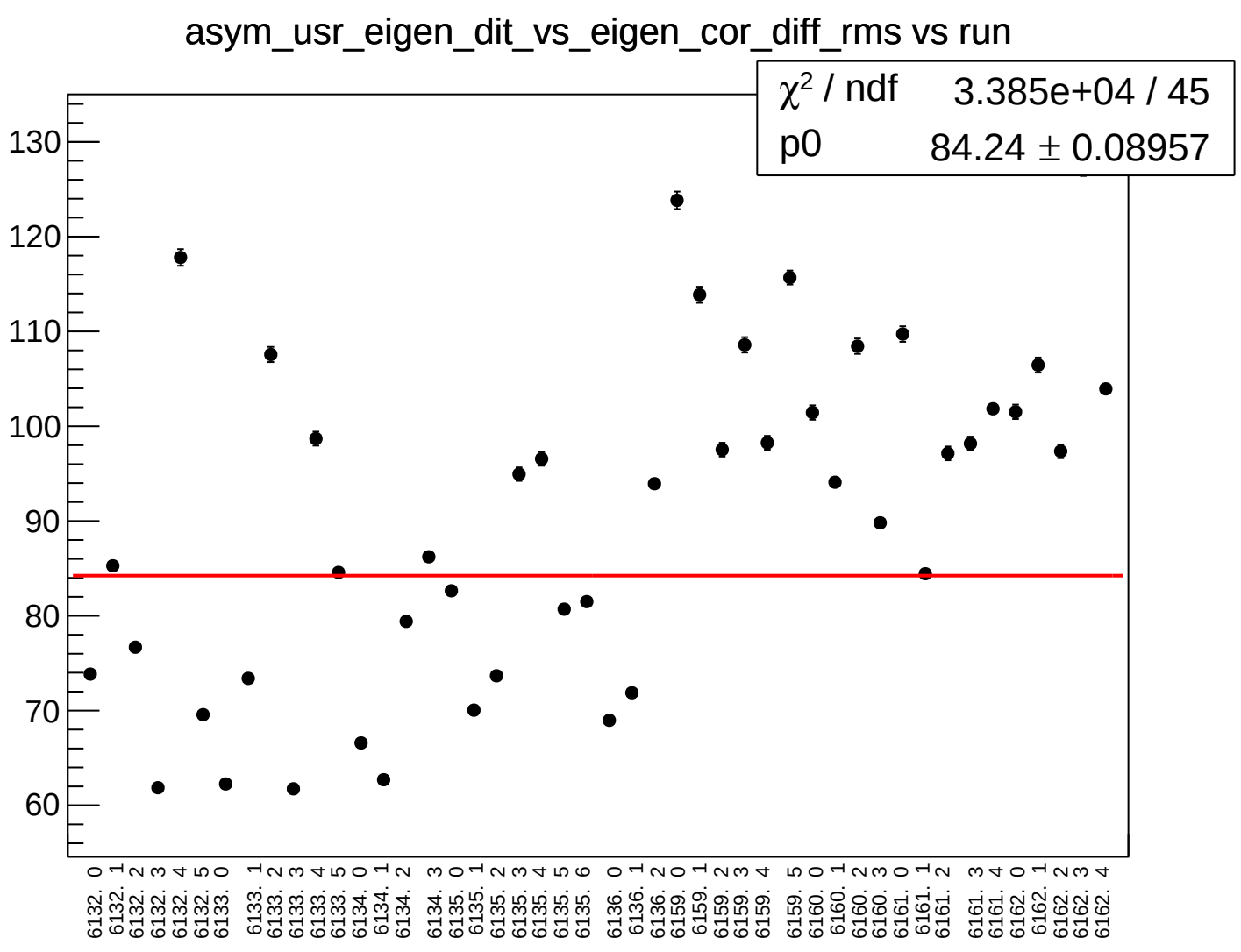

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.385e+04 / 45
p0 84.24 ± 0.08957
130
120
110
100
90
80
70
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run








asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.385e+04 / 45
p0 84.24 ± 0.08957
130
120
110
100
90
80
70
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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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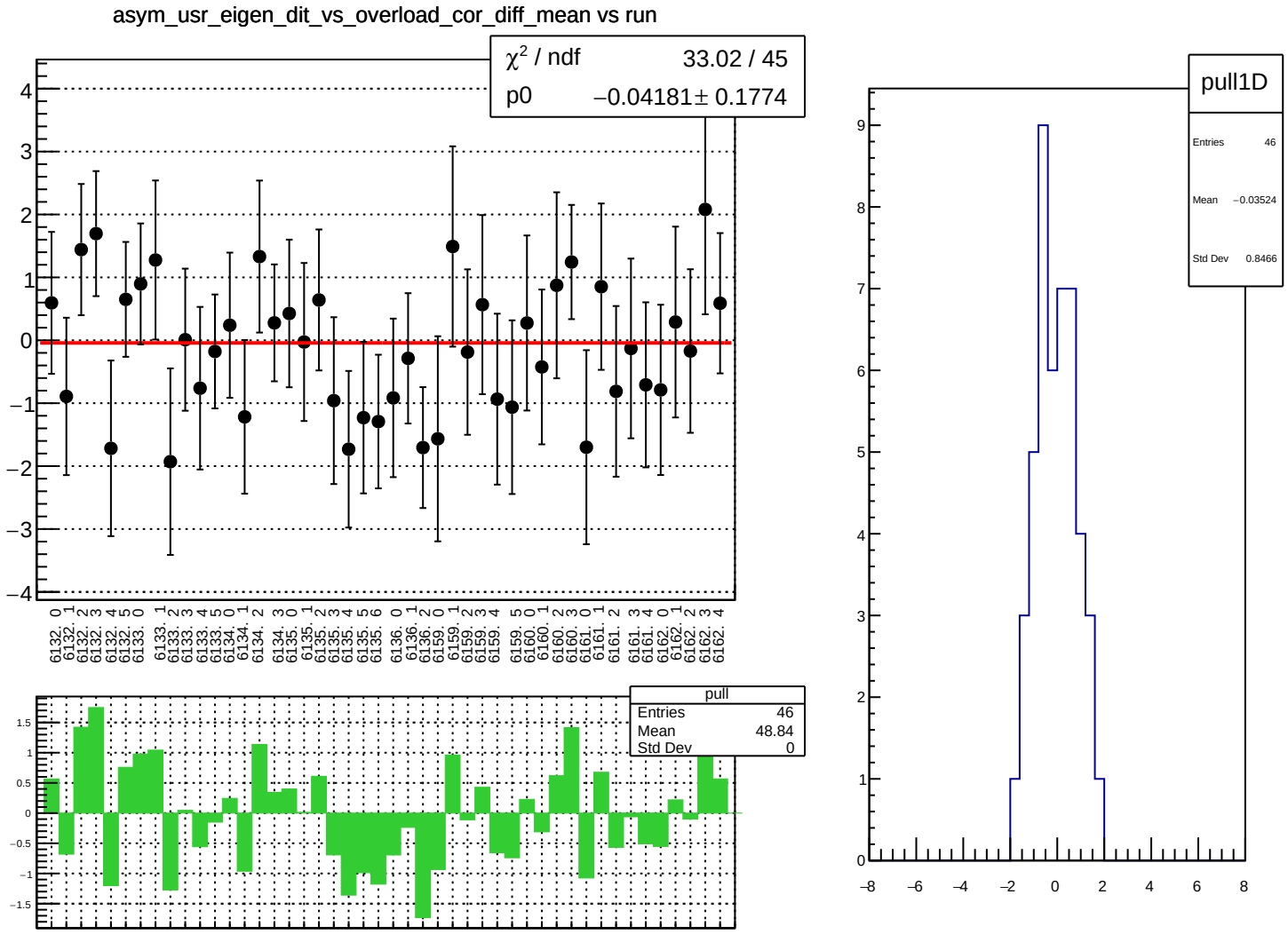
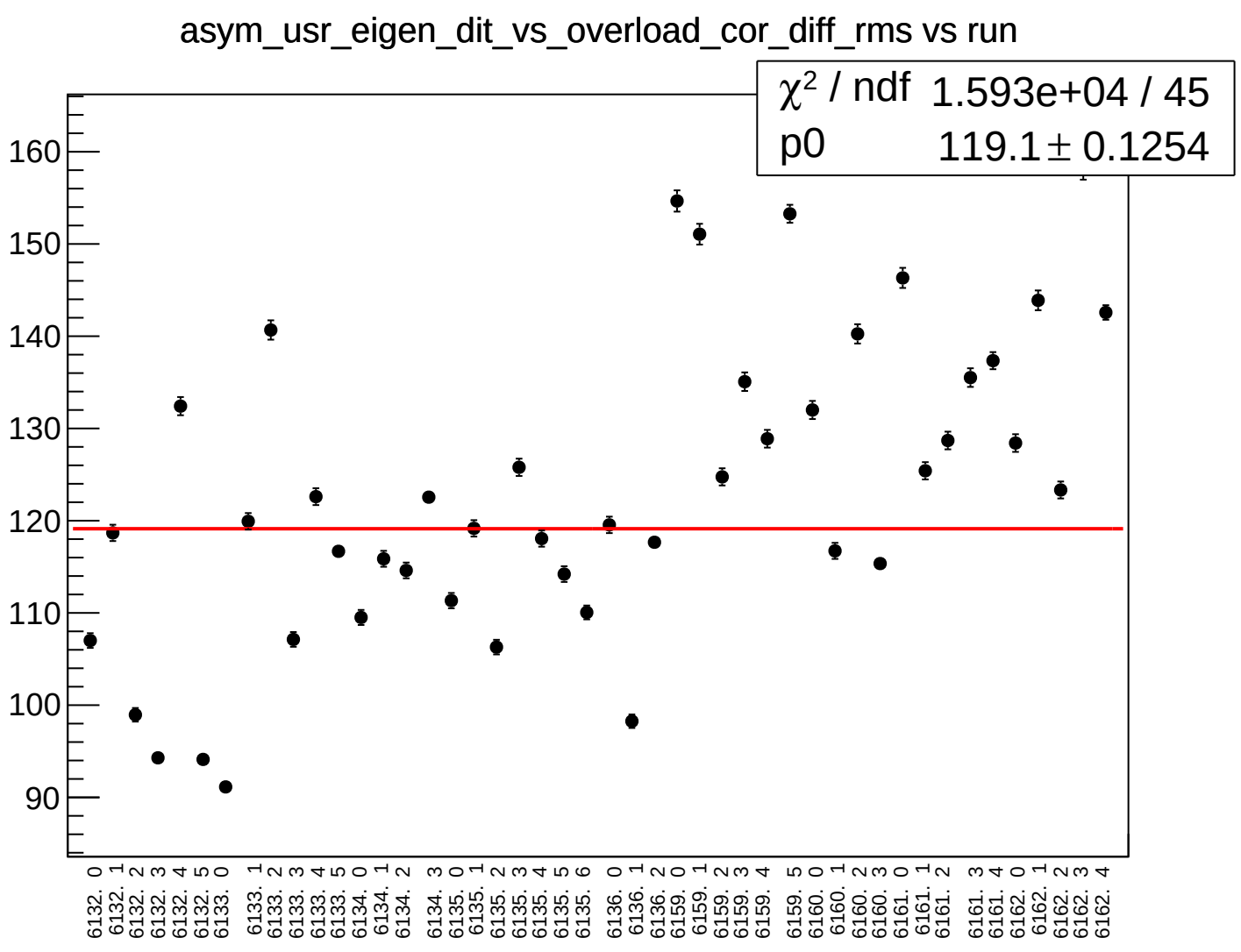
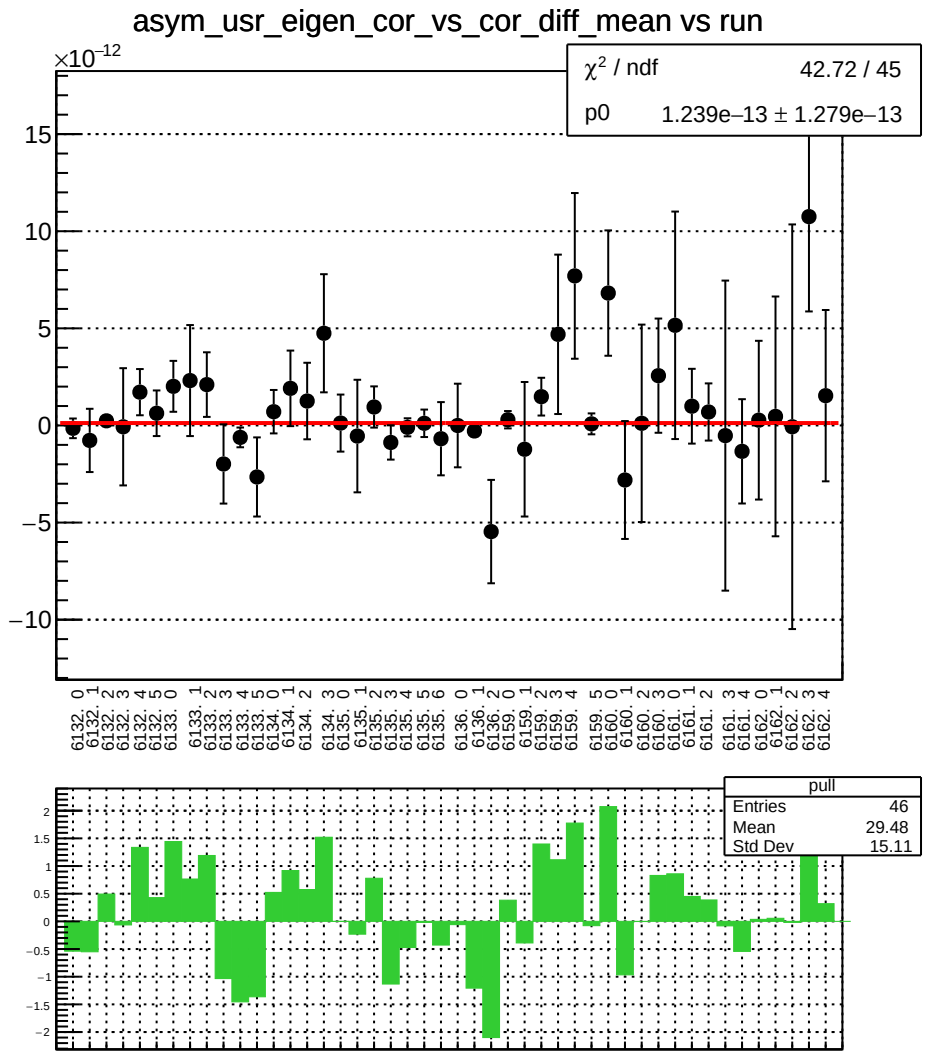
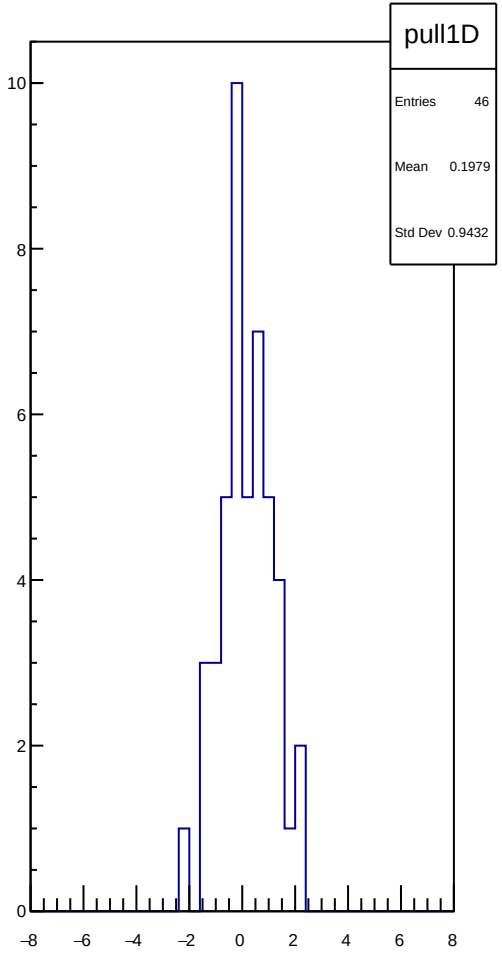
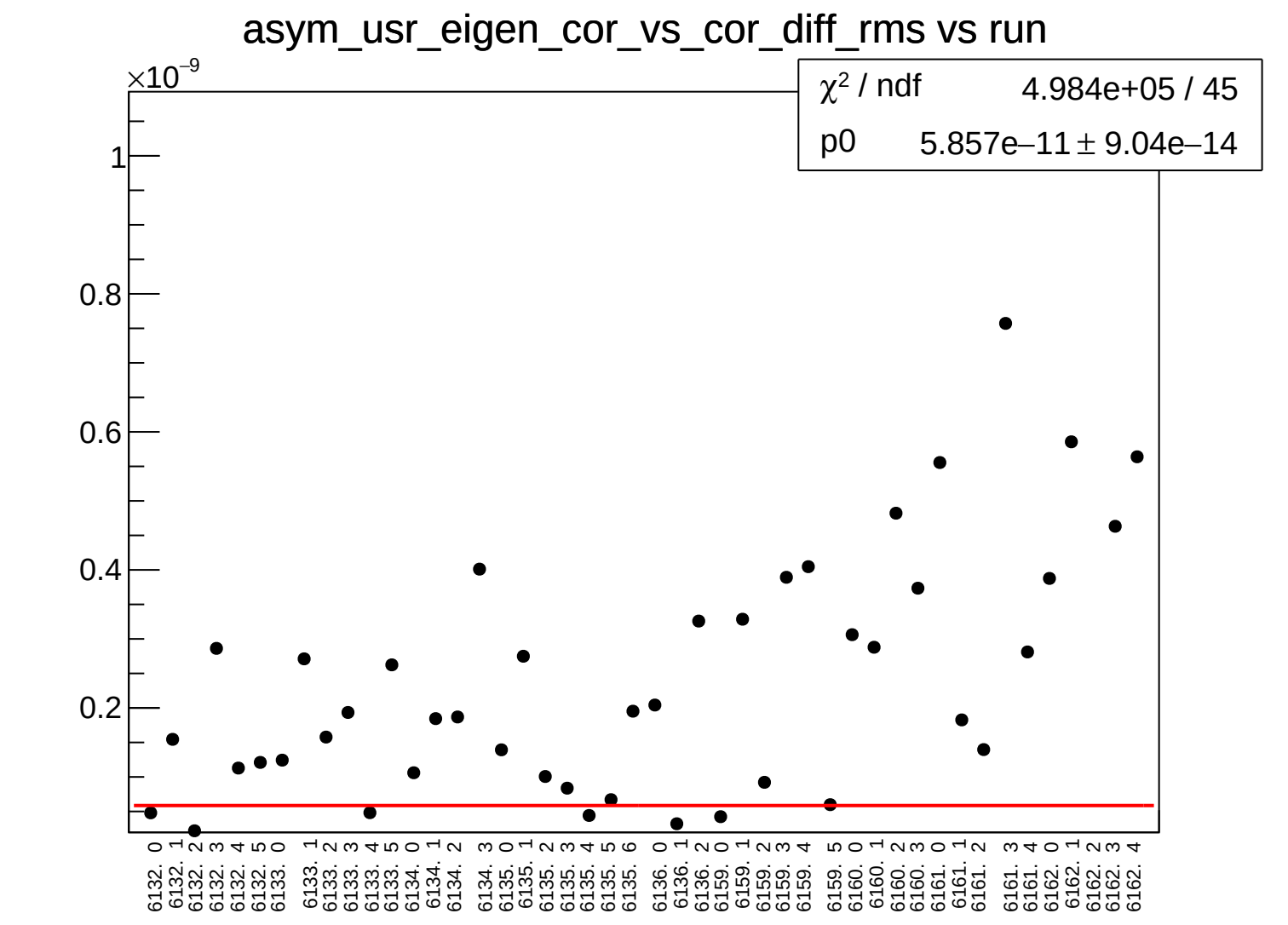
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

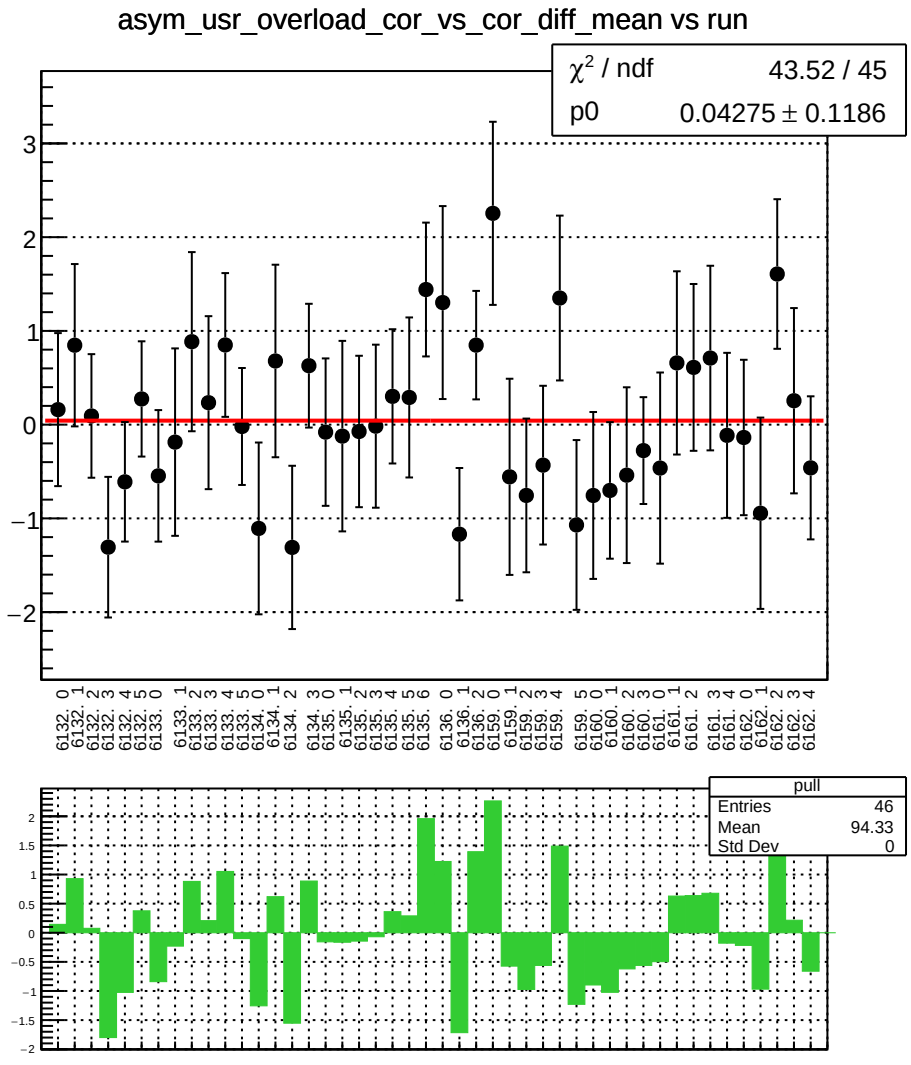

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 33.02 / 45
p0 −0.04181± 0.1774
pull
Entries 46
Mean 48.84
Std Dev 0
pull1D
Entries 46
Mean −0.03524
Std Dev 0.8466

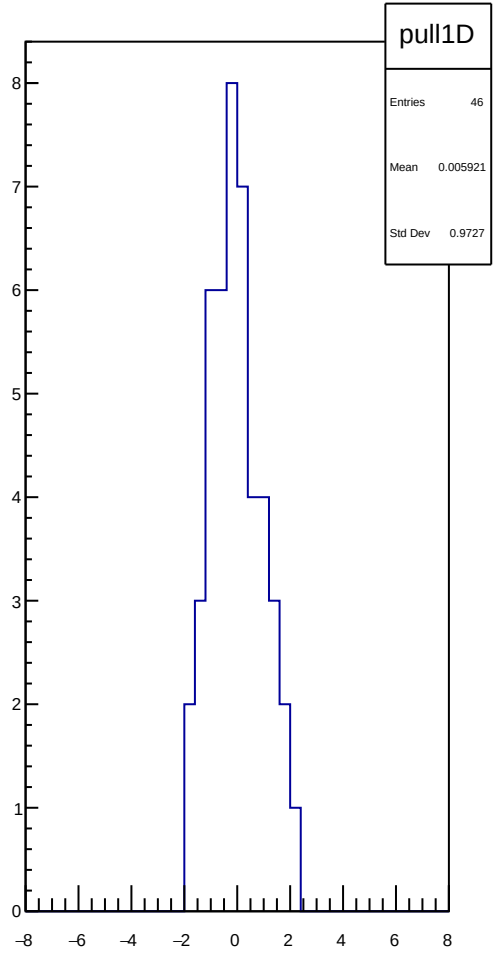

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.593e+04 / 45
p0 119.1 ± 0.1254
160
150
140
130
120
110
100
90
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

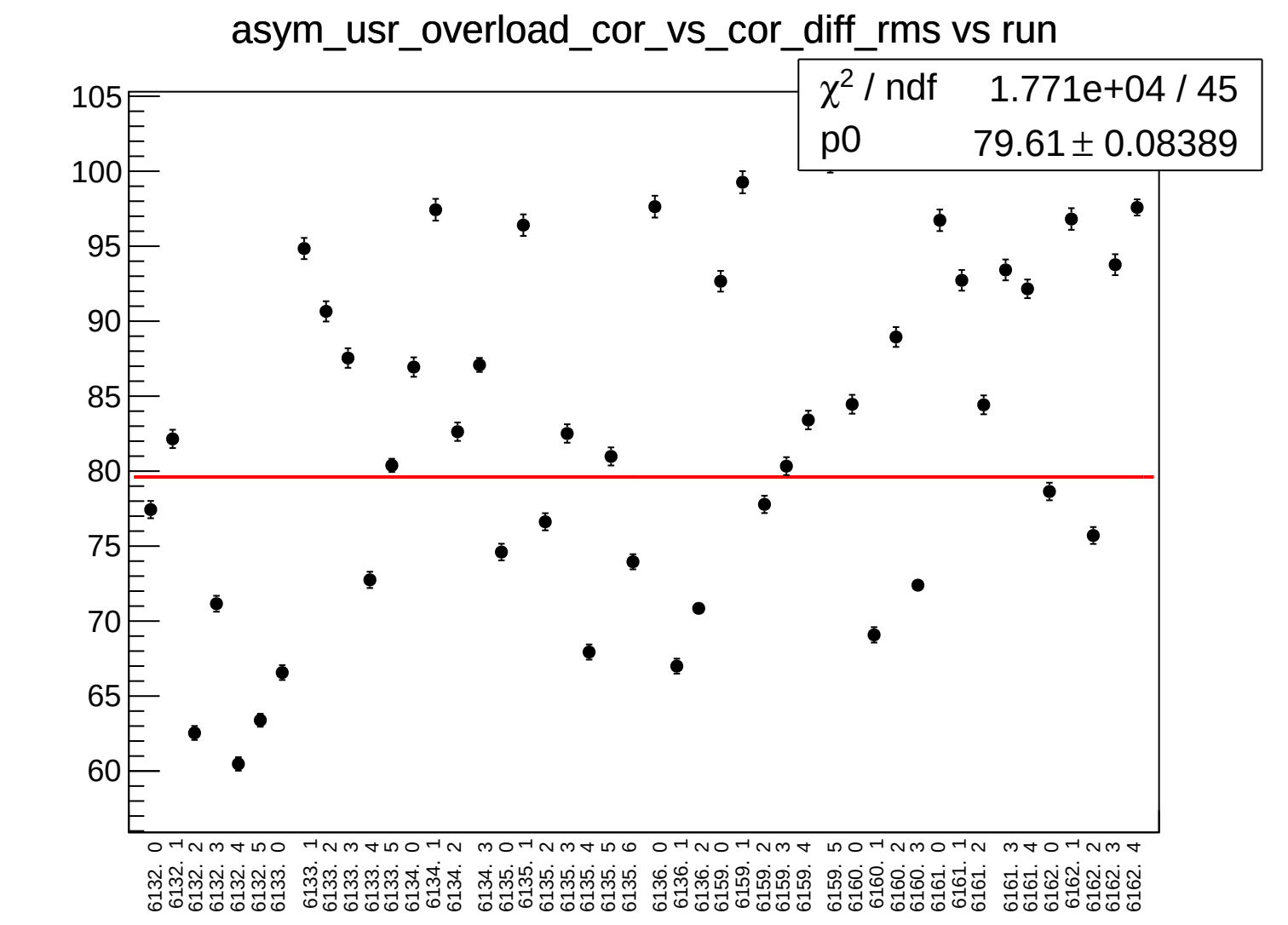

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 42.72 / 45
p0 1.239e−13 ± 1.279e−13
15
10
5
0
−5
−10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 29.48
Std Dev 15.11
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

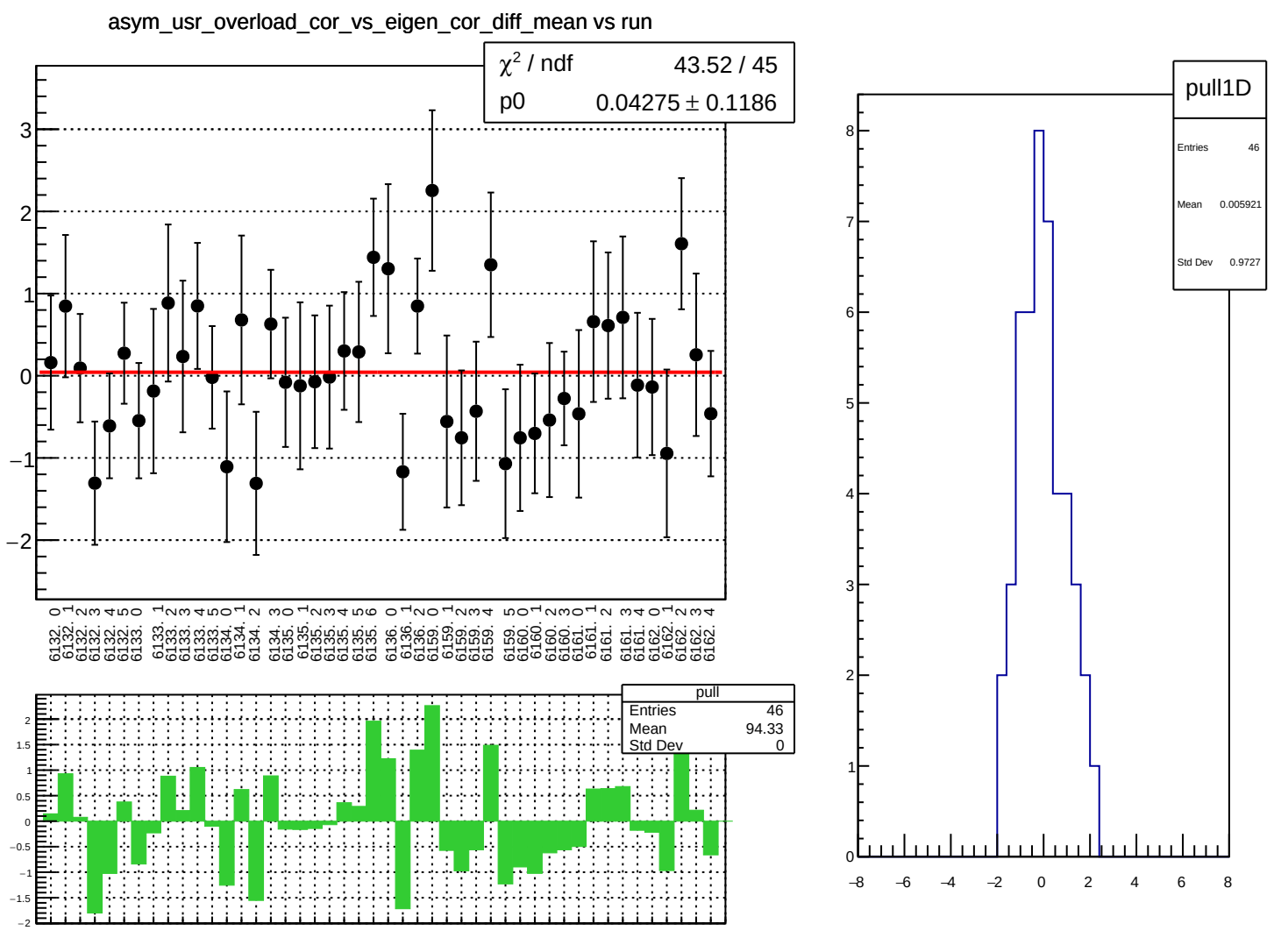

pull1D
Entries 46
Mean 0.1979
Std Dev 0.9432
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

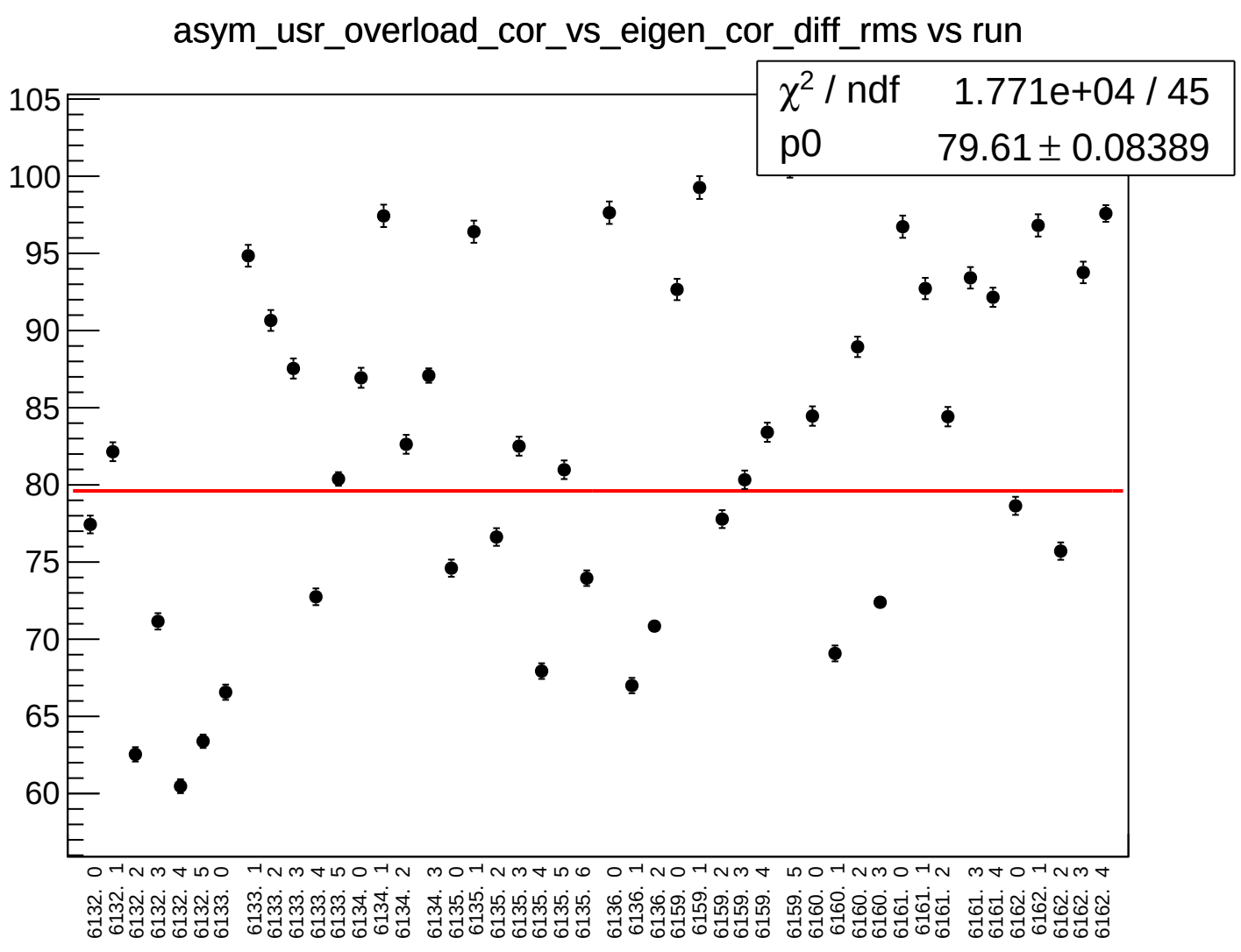

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.984e+05 / 45
p0 5.857e−11 ± 9.04e−14
1
0.8
0.6
0.4
0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

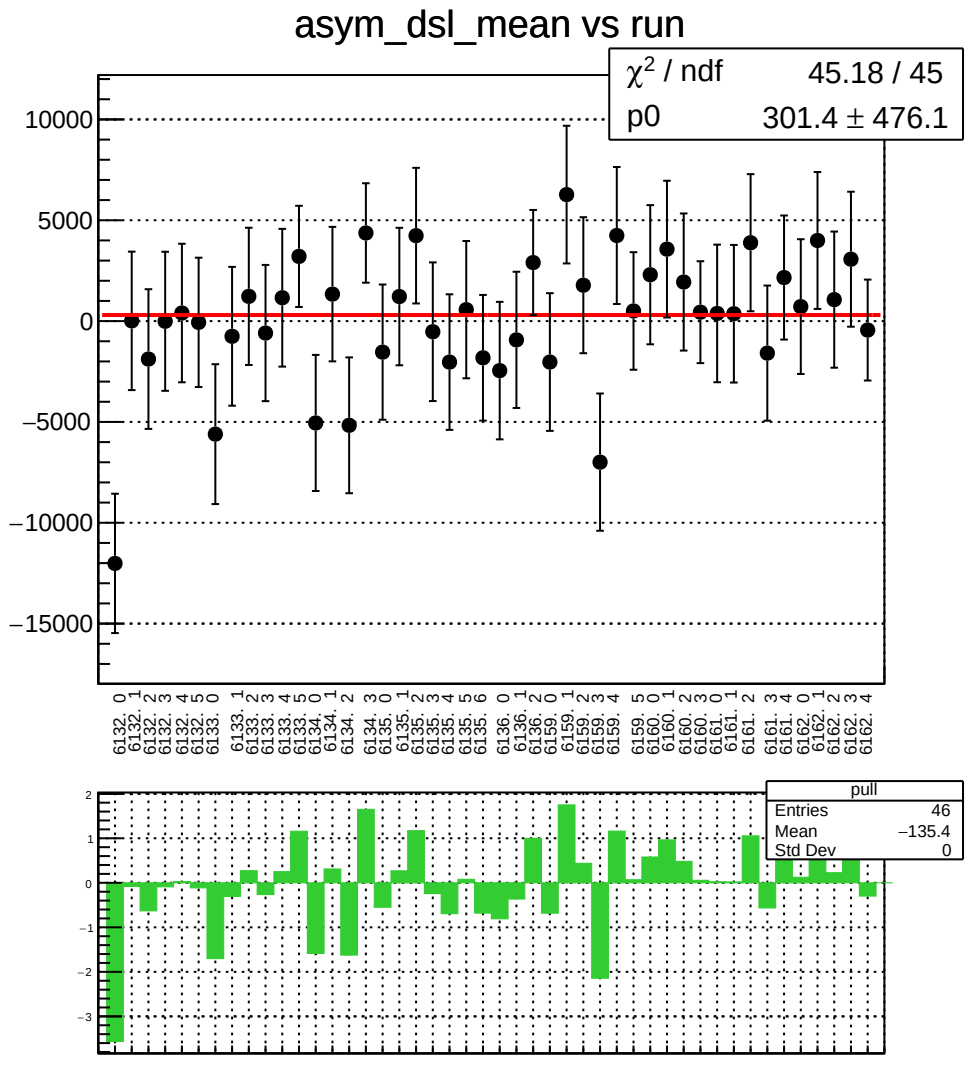

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 43.52 / 45
p0 0.04275 ± 0.1186
pull
Entries 46
Mean 94.33
Std Dev 0

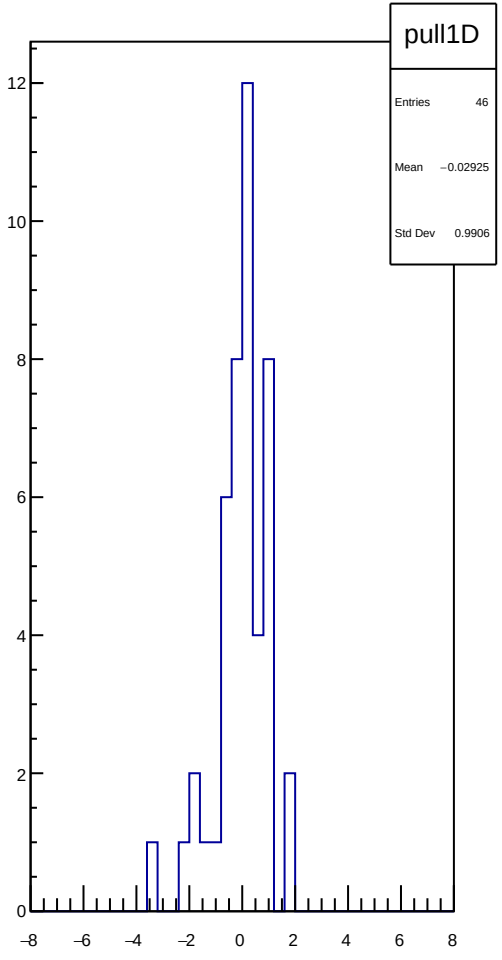

pull1D
Entries 46
Mean 0.005921
Std Dev 0.9727

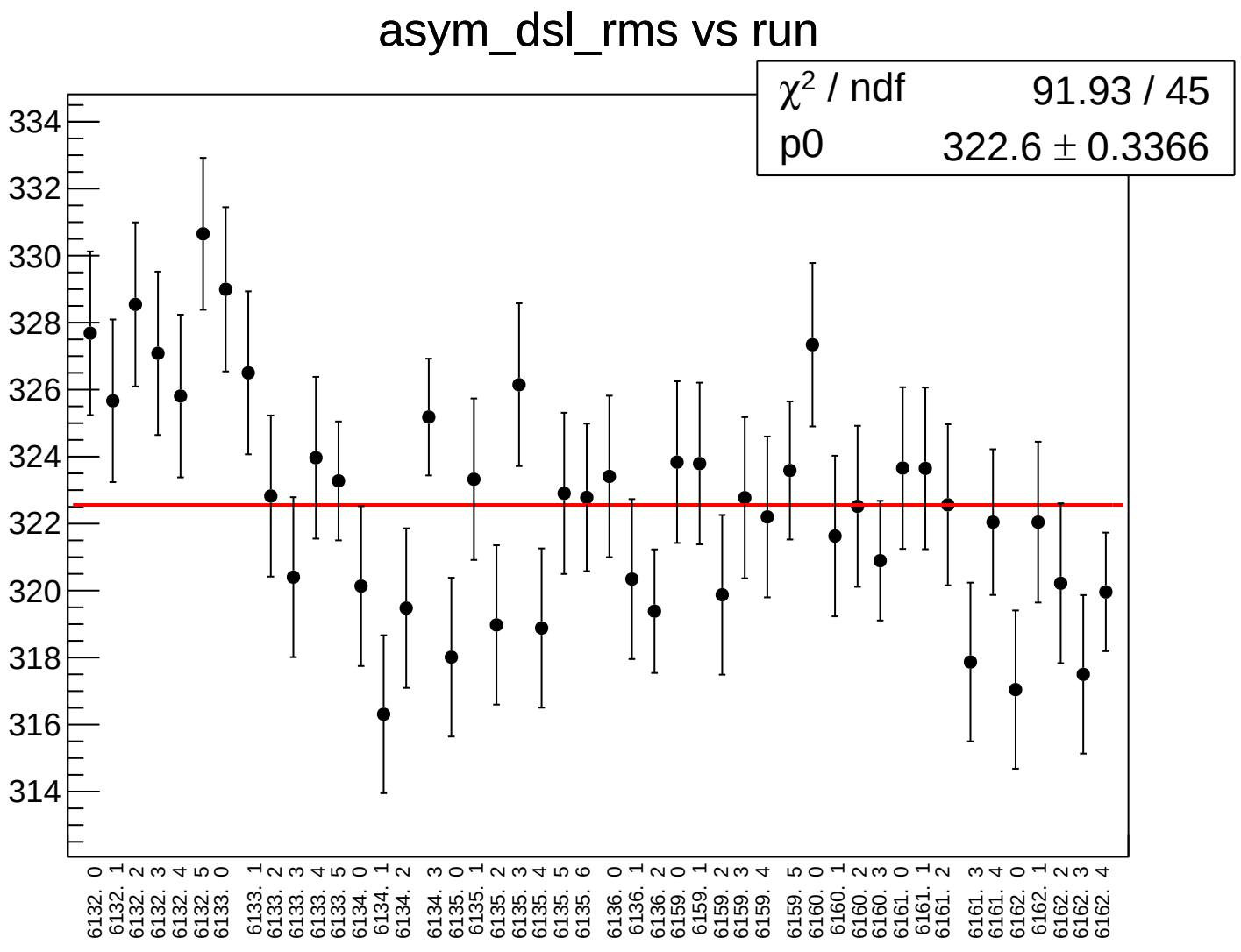

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.771e+04 / 45
p0 79.61 ± 0.08389
105
100
95
90
85
80
75
70
65
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

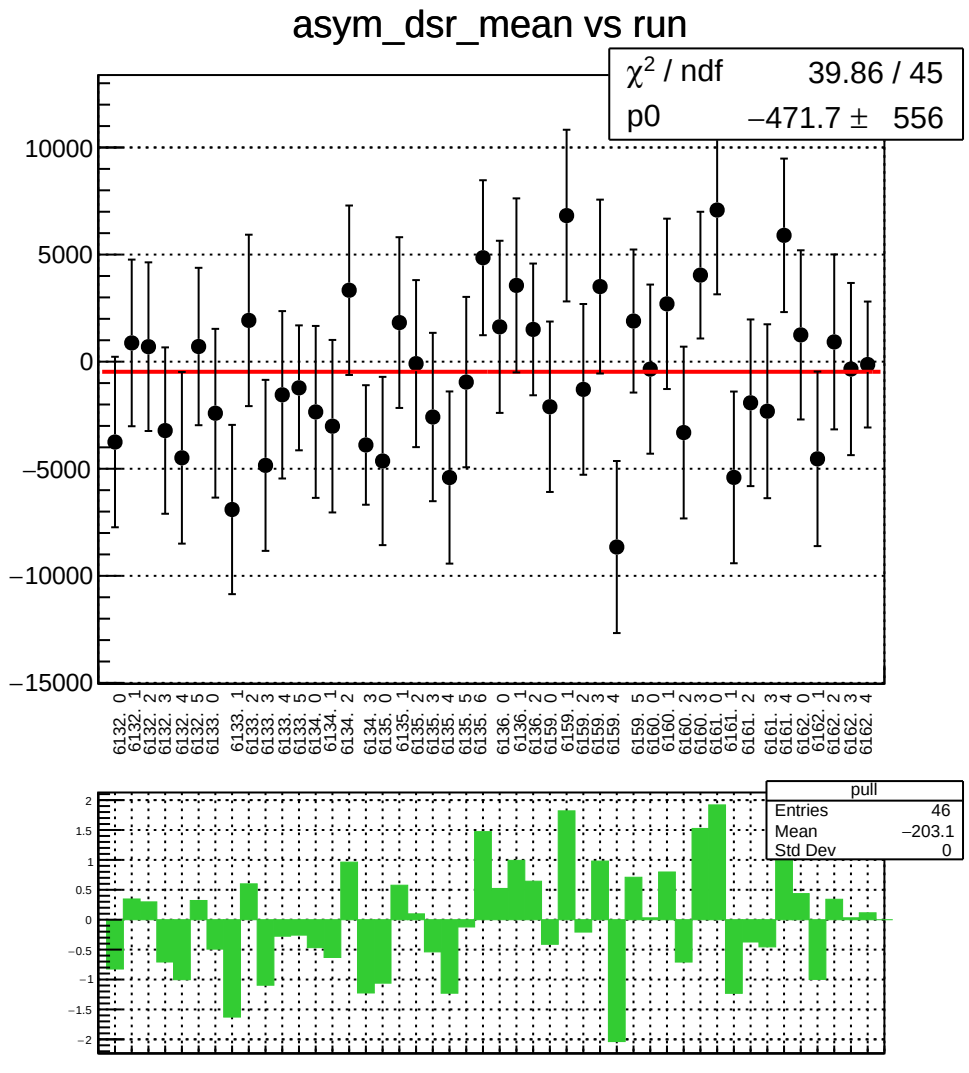

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.52 / 45
p0 0.04275 ± 0.1186
pull
Entries 46
Mean 94.33
Std Dev 0
pull1D
Entries 46
Mean 0.005921
Std Dev 0.9727

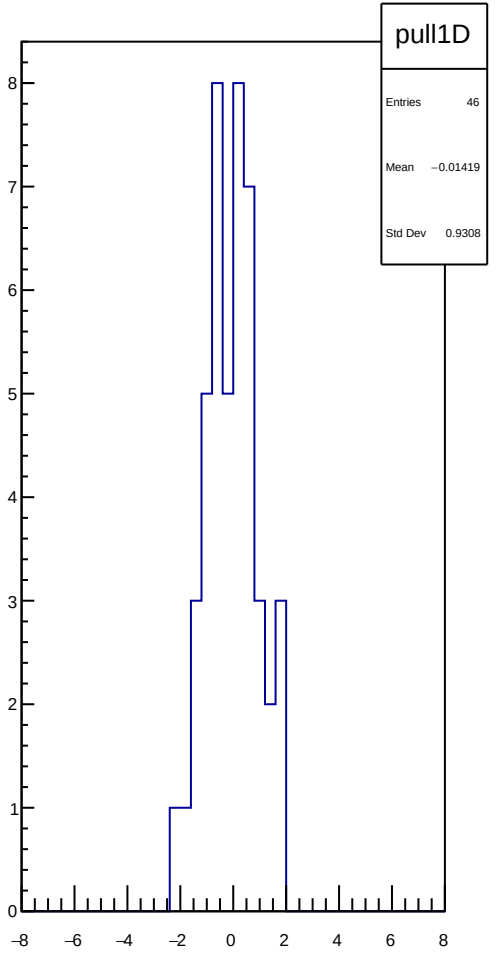

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.771e+04 / 45
p0 79.61 ± 0.08389
105
100
95
90
85
80
75
70
65
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

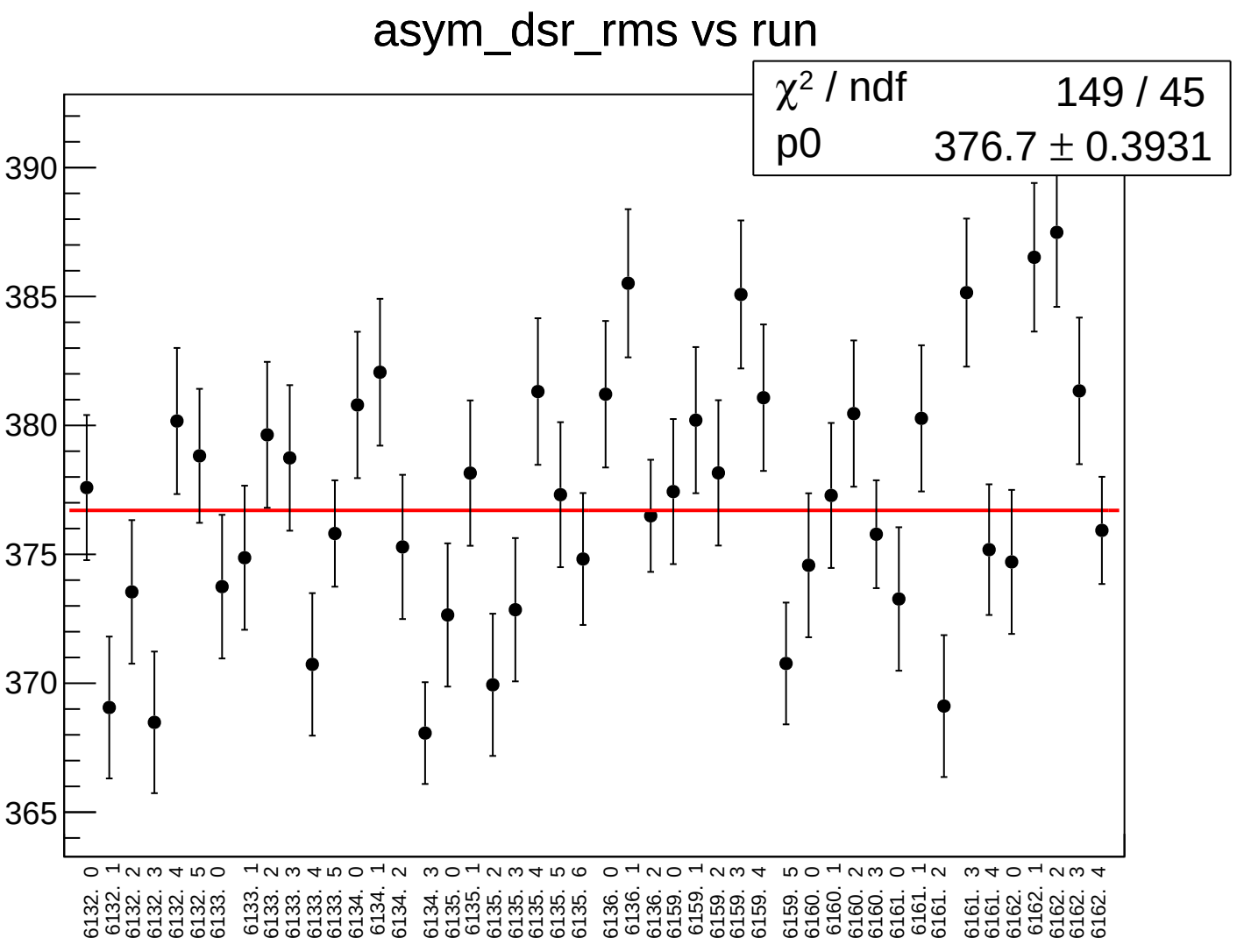

asym_dsl_mean vs run
χ² / ndf 45.18 / 45
p0 301.4 ± 476.1
10000
5000
0
−5000
−10000
−15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −135.4
Std Dev 0
2
1
0
−1
−2
−3

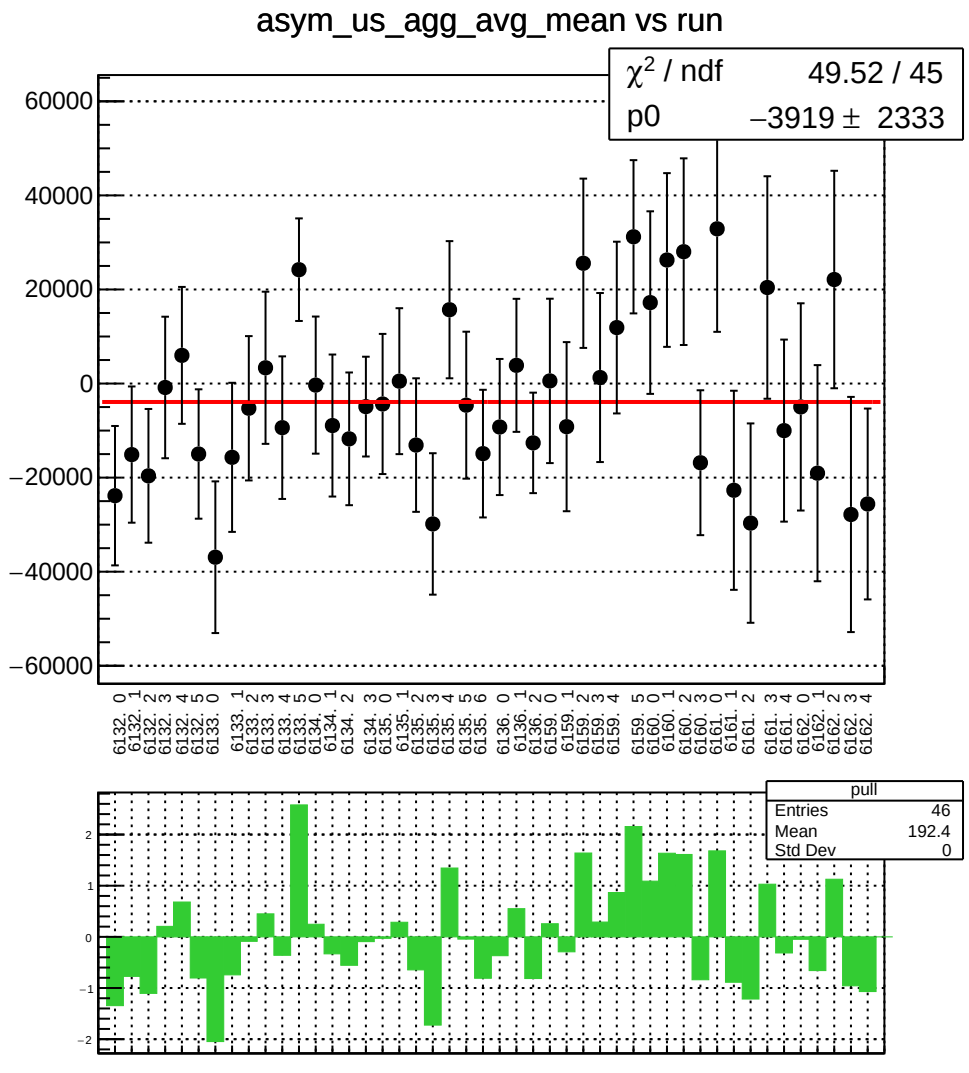

pull1D
Entries 46
Mean −0.02925
Std Dev 0.9906
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

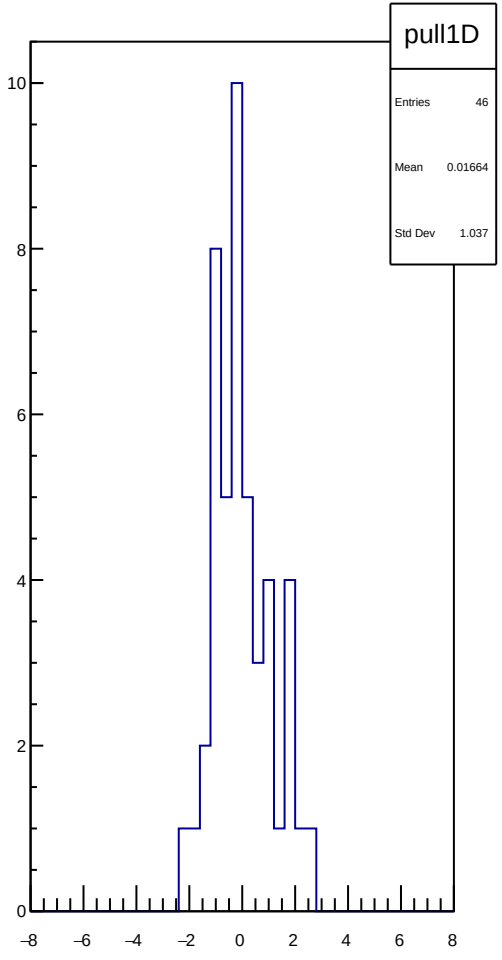

asym_dsl_rms vs run
χ^2 / ndf 91.93 / 45
p0 322.6 ± 0.3366
334
332
330
328
326
324
322
320
318
316
314
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

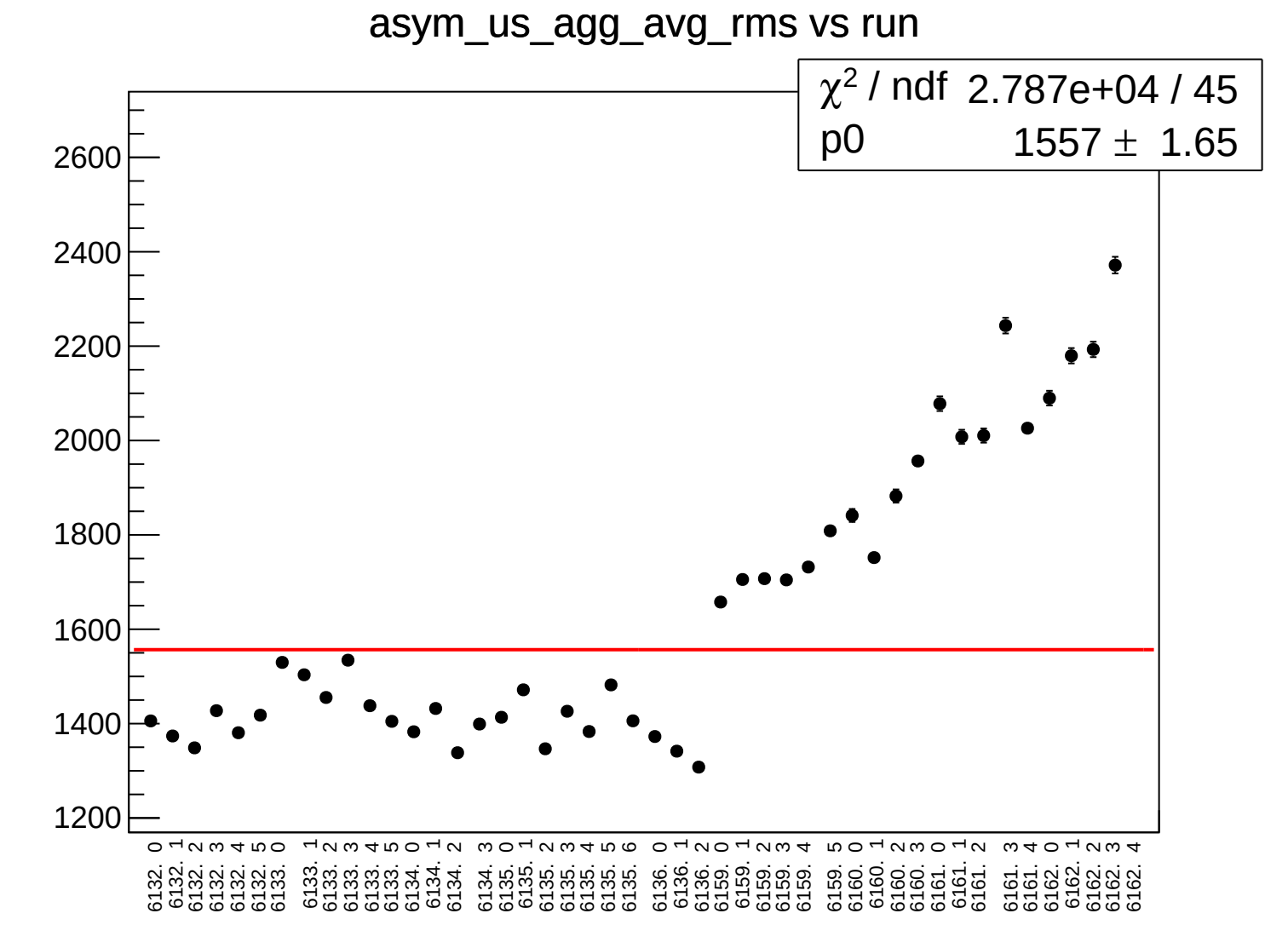

asym_dsr_mean vs run
χ² / ndf 39.86 / 45
p0 −471.7 ± 556
10000
5000
0
−5000
−10000
−15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −203.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

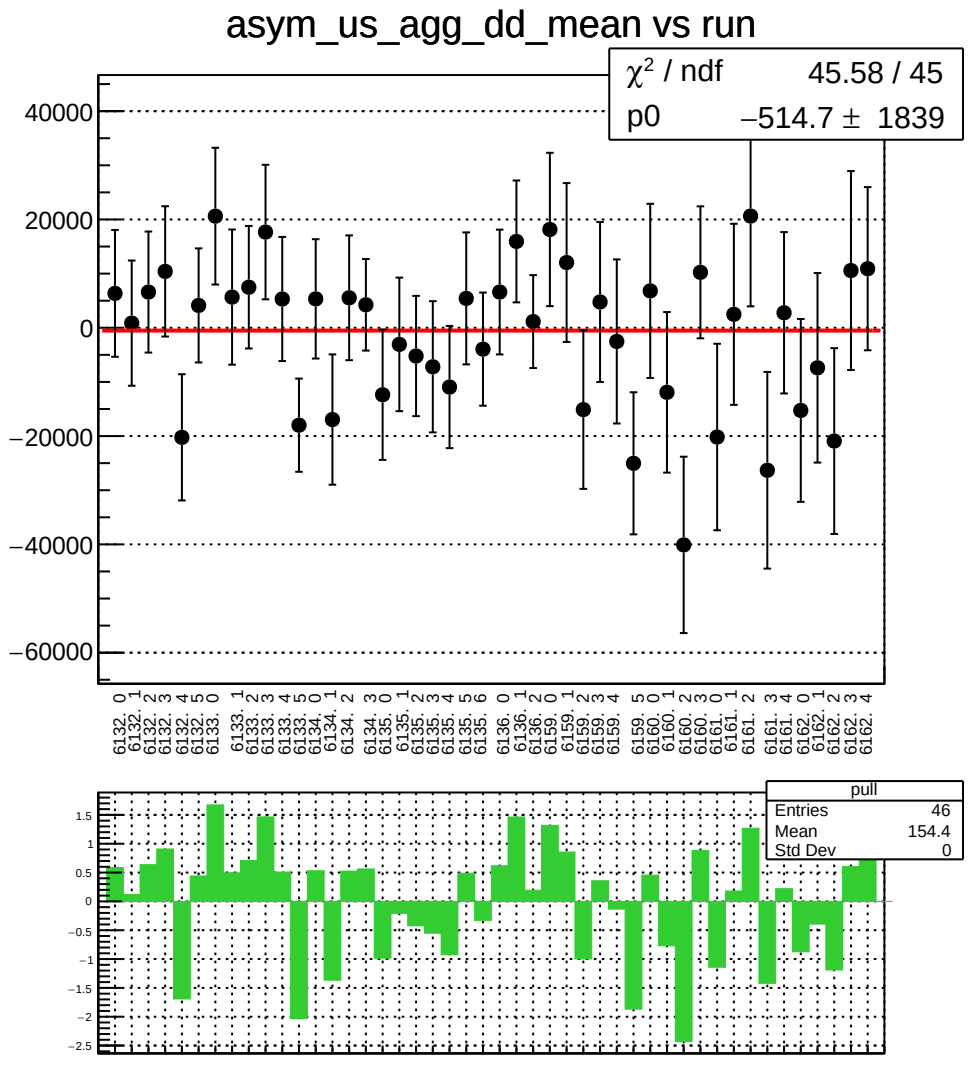

pull1D
Entries 46
Mean −0.01419
Std Dev 0.9308
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

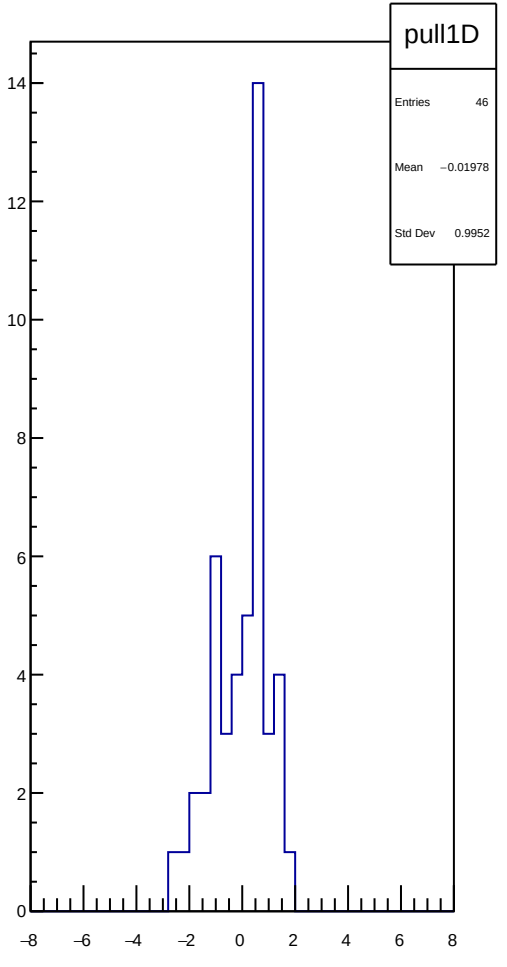

asym_dsr_rms vs run
χ² / ndf 149 / 45
p0 376.7 ± 0.3931
390
385
380
375
370
365
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

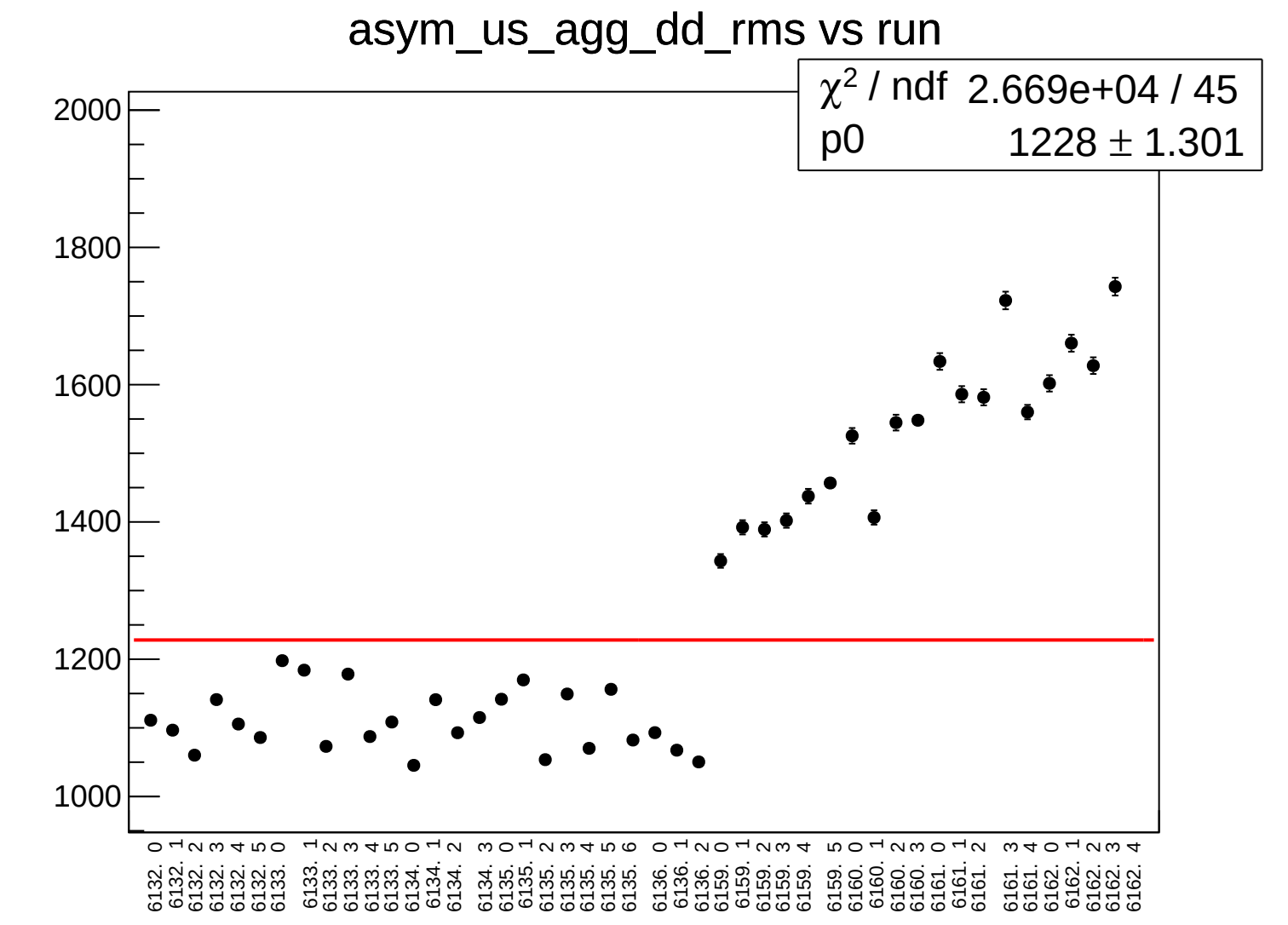

asym_us_agg_avg_mean vs run
χ² / ndf 49.52 / 45
p0 −3919 ± 2333
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 192.4
Std Dev 0
2
1
0
−1
−2

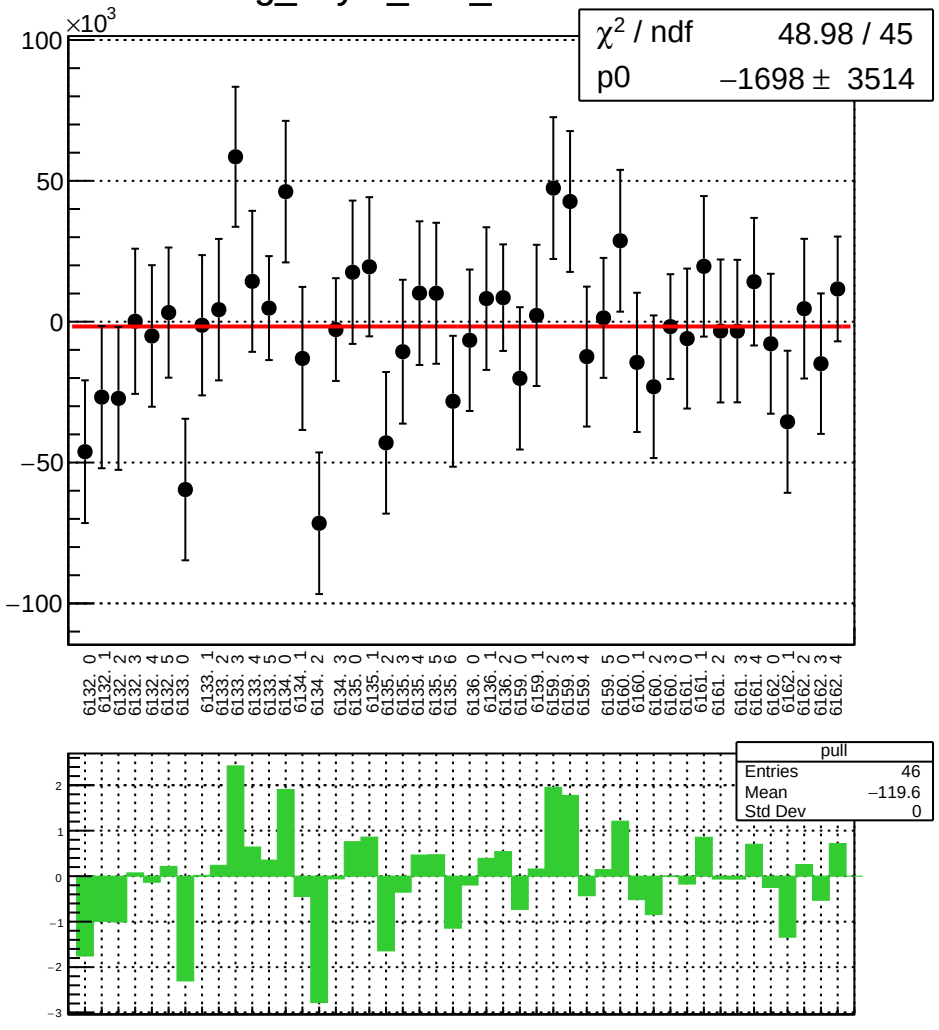

pull1D
Entries 46
Mean 0.01664
Std Dev 1.037
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

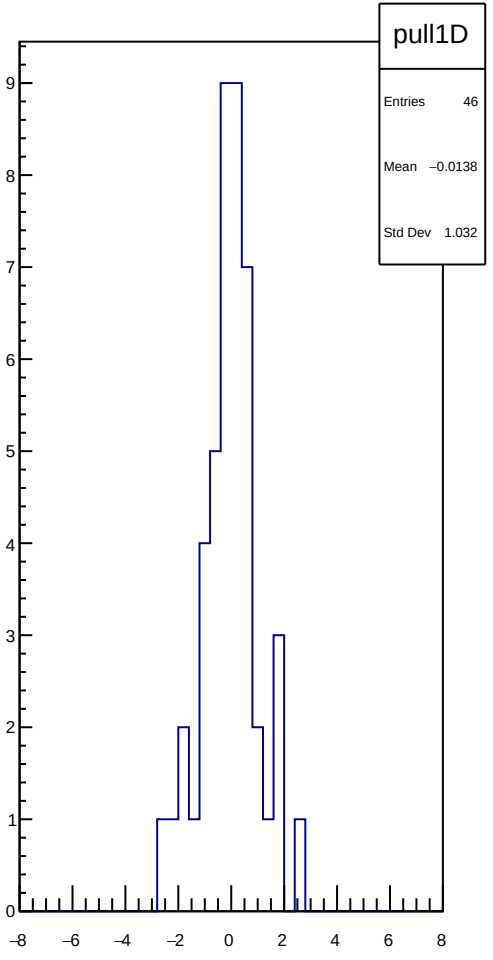

asym_us_agg_avg_rms vs run
χ² / ndf 2.787e+04 / 45
p0 1557 ± 1.65
2600
2400
2200
2000
1800
1600
1400
1200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_agg_dd_mean vs run
χ² / ndf 45.58 / 45
p0 −514.7 ± 1839
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 154.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.01978
Std Dev 0.9952
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_agg_dd_rms vs run
χ² / ndf 2.669e+04 / 45
p0 1228 ± 1.301
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_atl1_mean vs run
×10^3
χ² / ndf 48.98 / 45
p0 −1698 ± 3514
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −119.6
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean −0.0138
Std Dev 1.032
9
8
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5
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−8
−6
−4
−2
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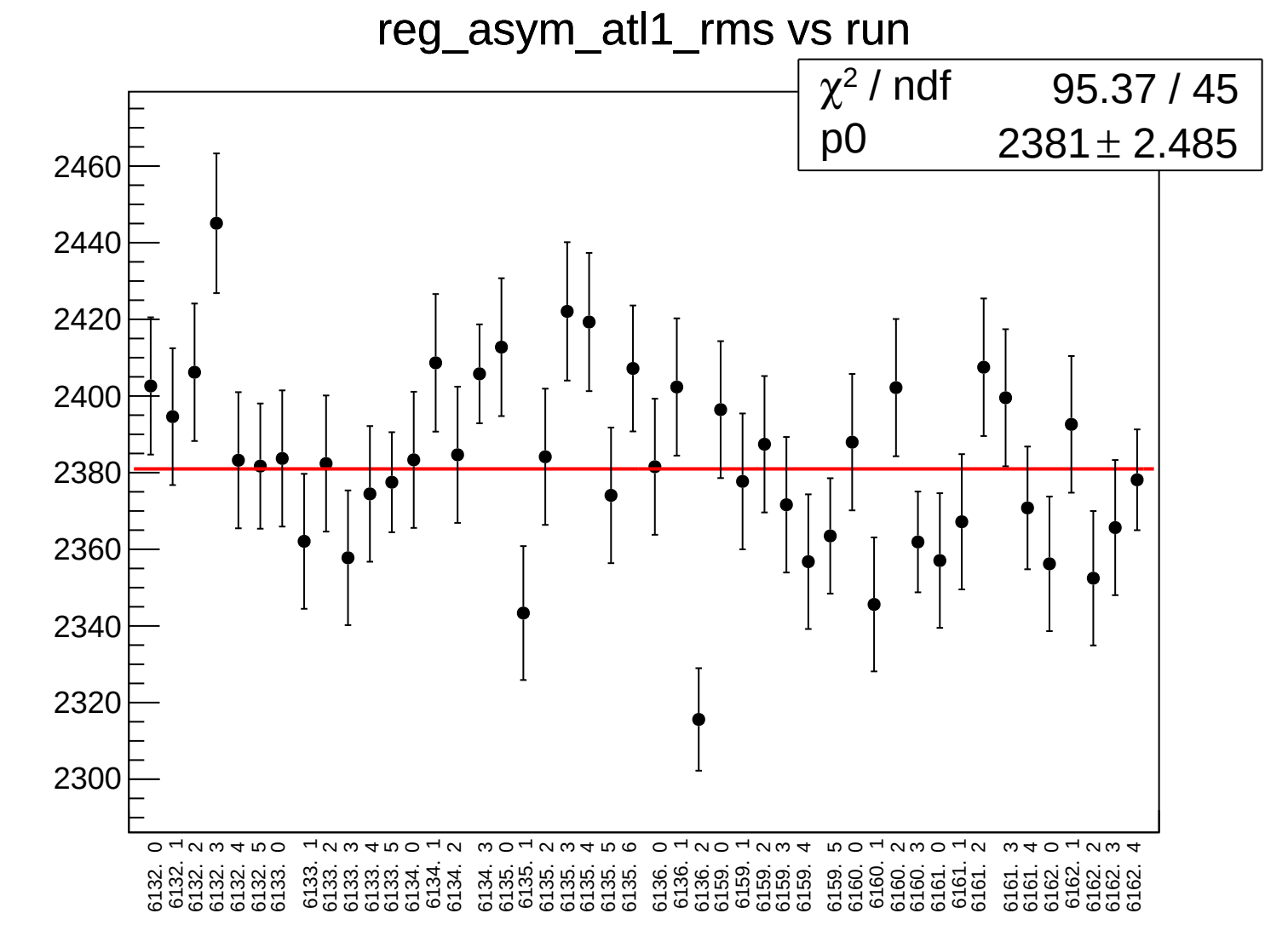
4
6
8


reg_asym_atl1_rms vs run
χ² / ndf 95.37 / 45
p0 2381 ± 2.485
2460
2440
2420
2400
2380
2360
2340
2320
2300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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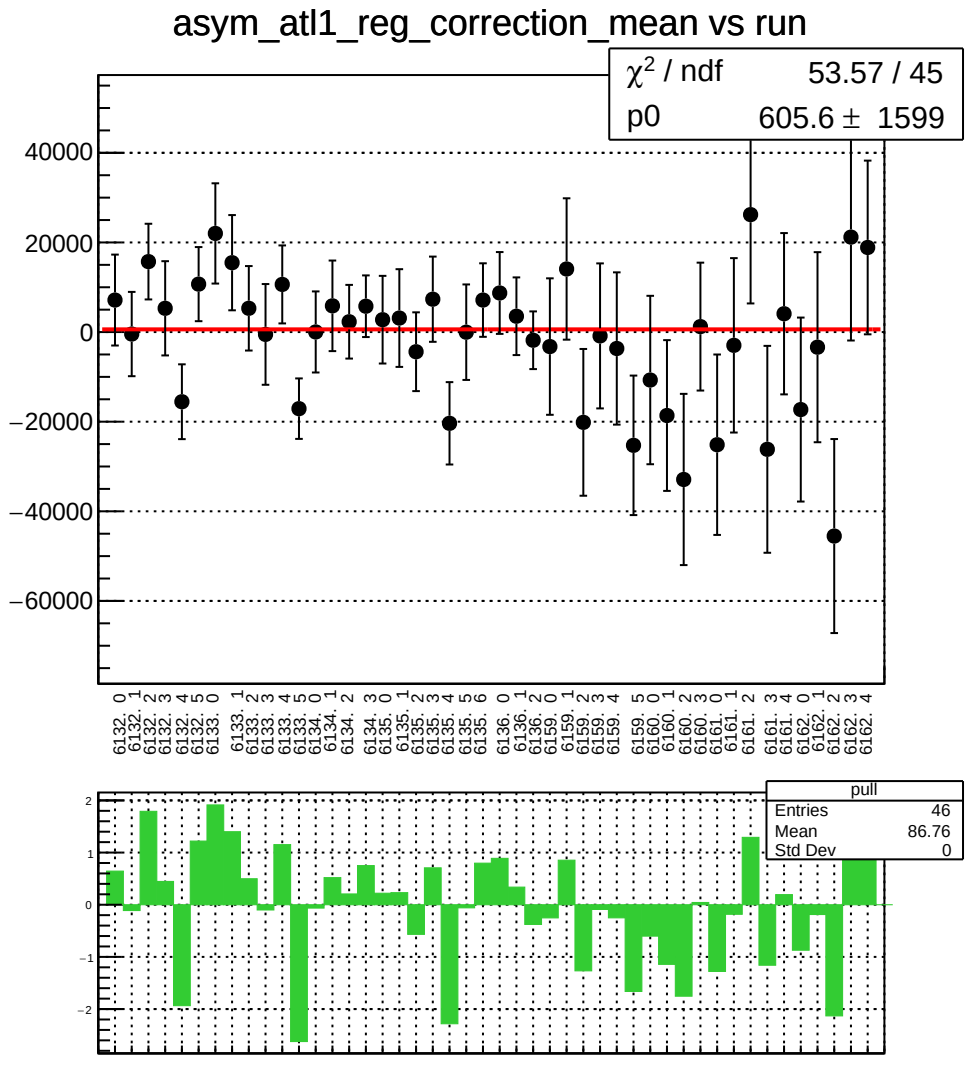
asym_atl1_reg_correction_mean vs run
χ² / ndf 53.57 / 45
p0 605.6 ± 1599
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 86.76
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.06547
Std Dev 1.077
10
8
6
4
2
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−6
−4
−2
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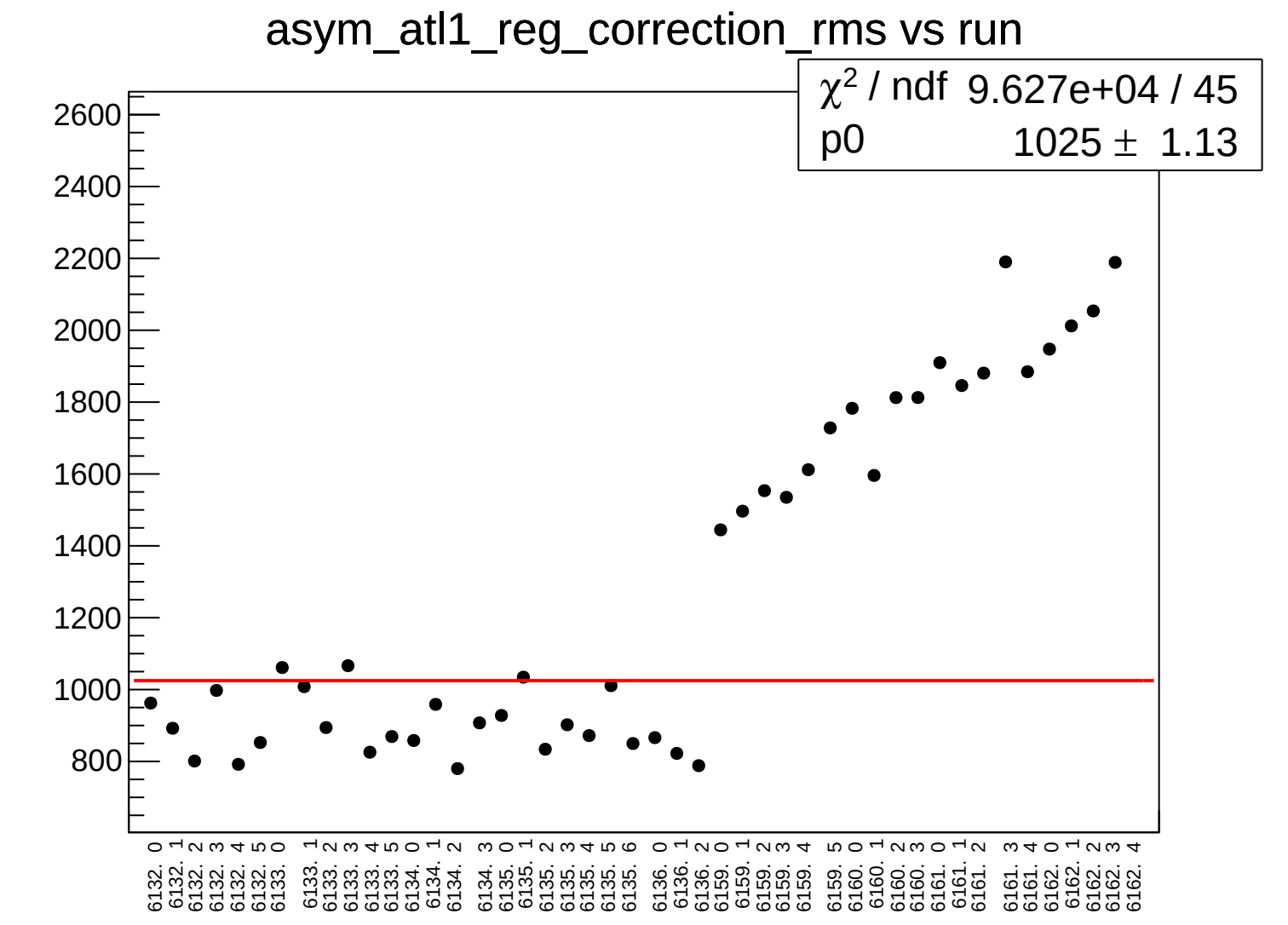
2
4
6
8


asym_atl1_reg_correction_rms vs run
χ² / ndf 9.627e+04 / 45
p0 1025 ± 1.13
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6136. 0
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6136. 2
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6159. 2
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6160. 2
6160. 3
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6162. 0
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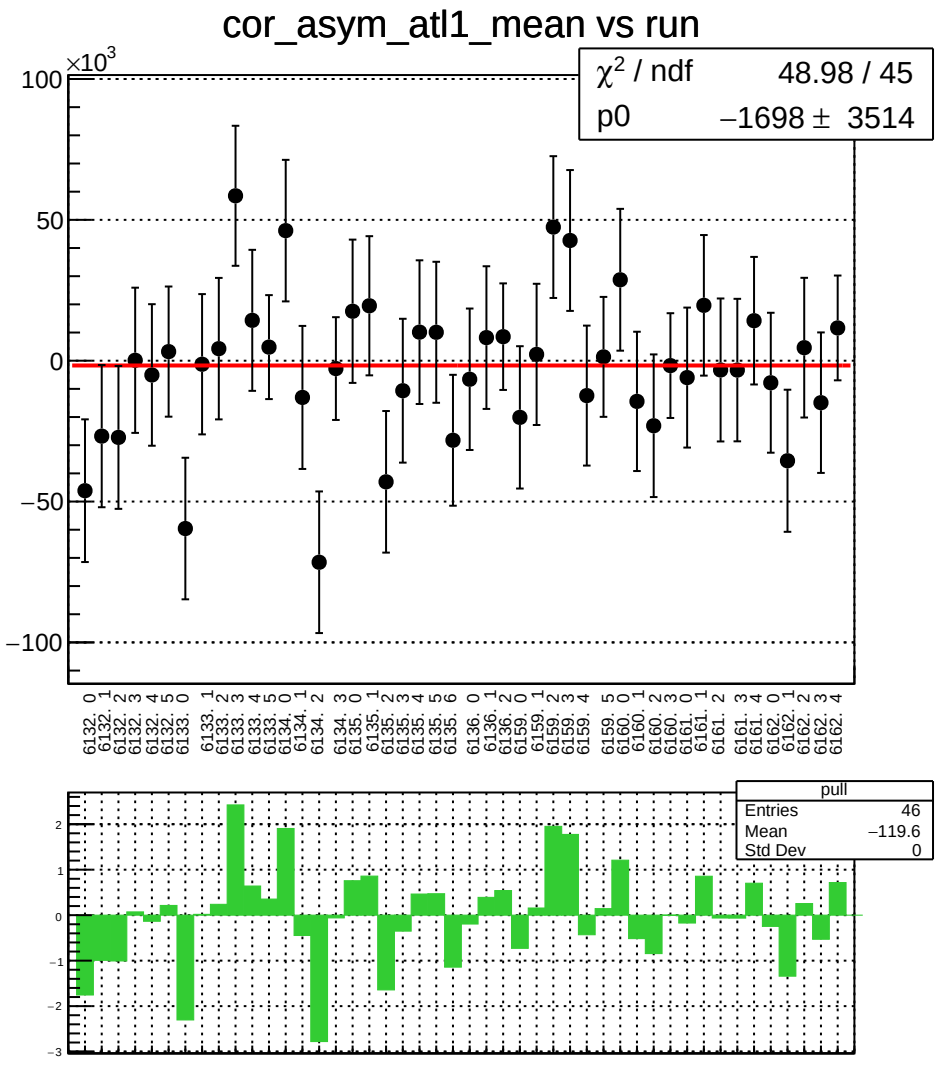
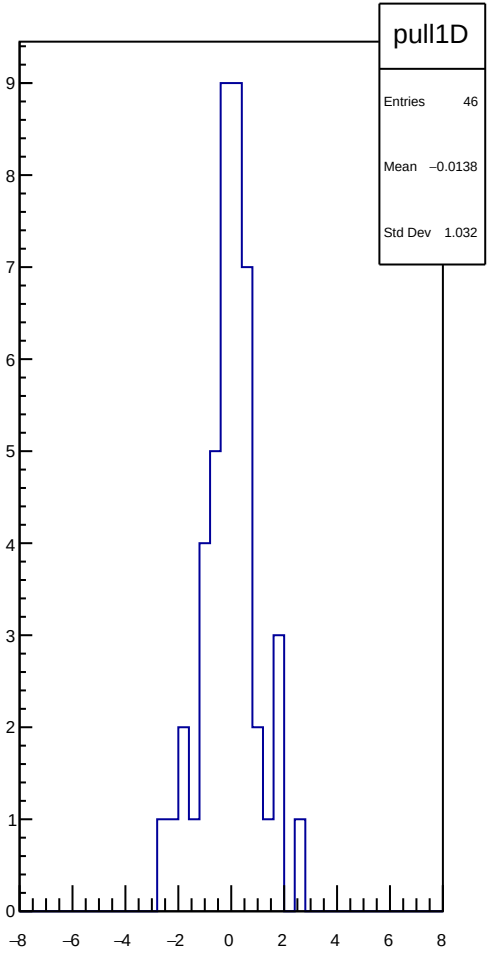
6162. 4


cor_asym_atl1_mean vs run
×10^3
χ² / ndf 48.98 / 45
p0 −1698 ± 3514
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −119.6
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean −0.0138
Std Dev 1.032
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−4
−2
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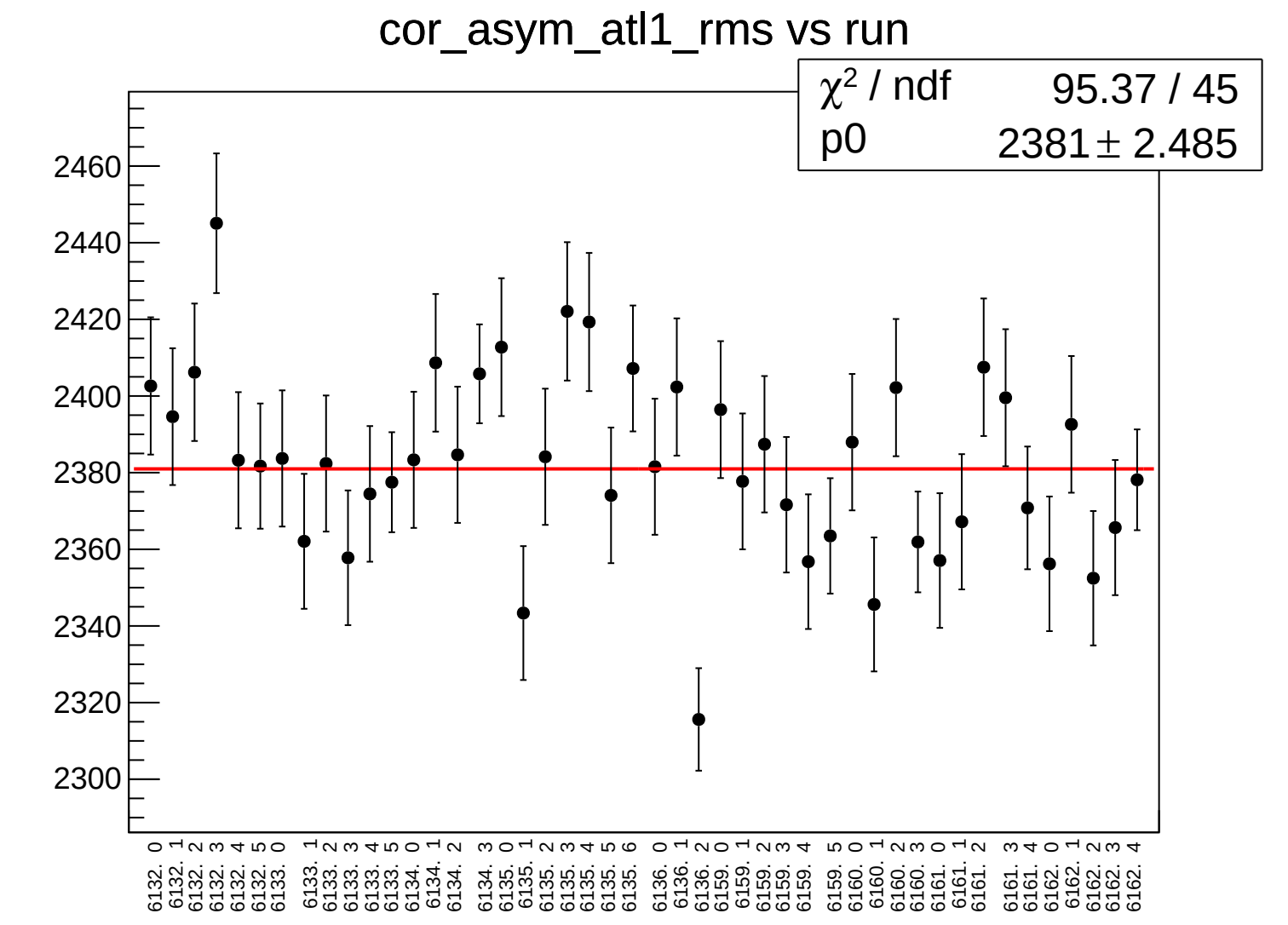
cor_asym_atl1_rms vs run
χ² / ndf 95.37 / 45
p0 2381 ± 2.485
2460
2440
2420
2400
2380
2360
2340
2320
2300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
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6159. 2
6159. 3
6159. 4
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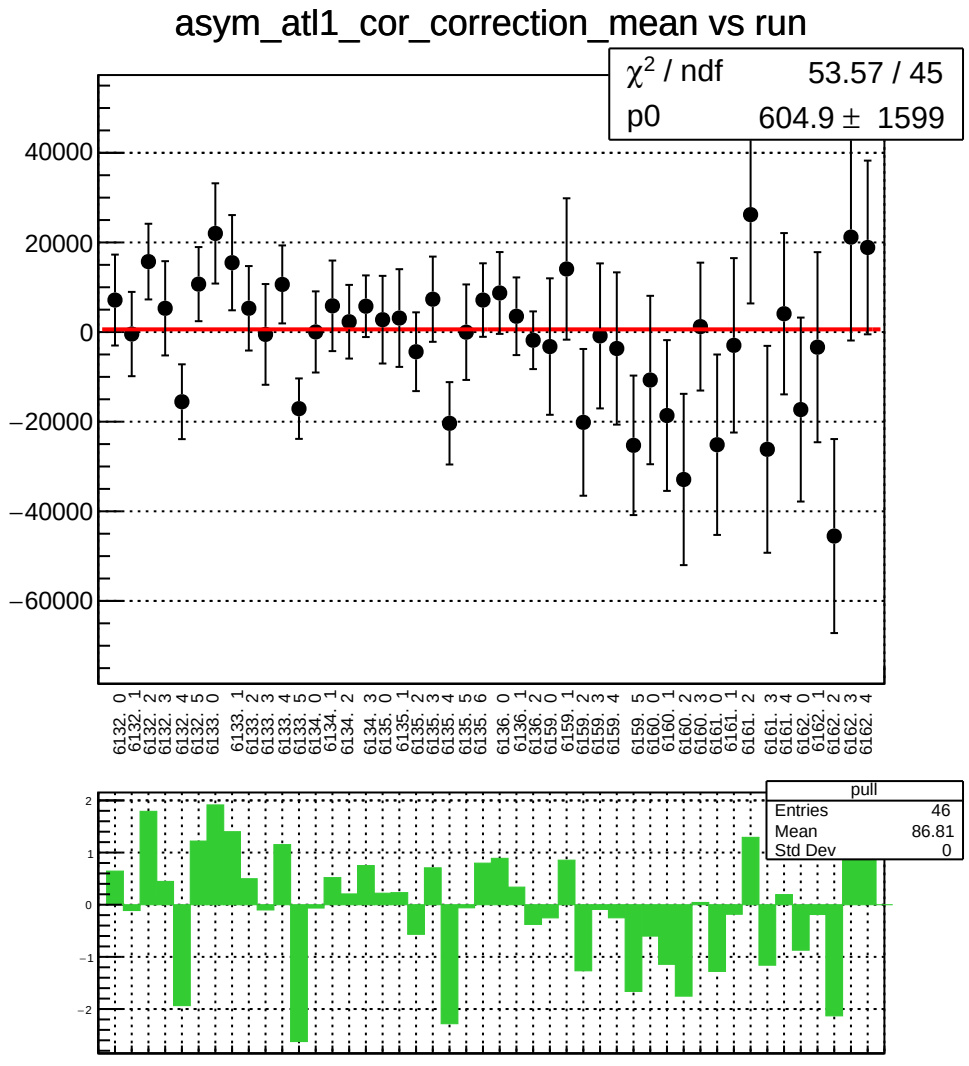
asym_atl1_cor_correction_mean vs run
χ² / ndf 53.57 / 45
p0 604.9 ± 1599
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
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6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
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6159. 2
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6160. 0
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6161. 0
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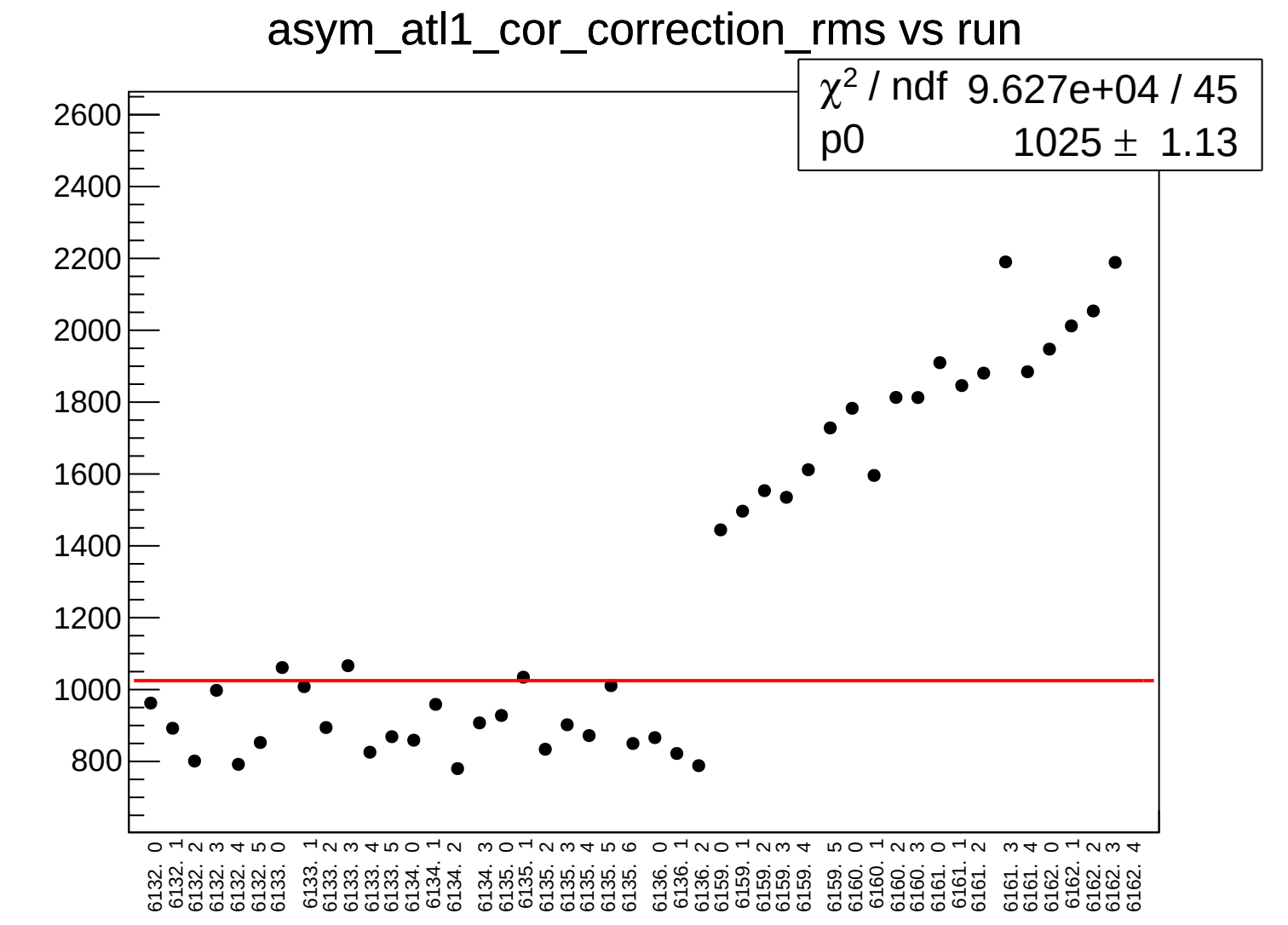
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 86.81
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.06542
Std Dev 1.077
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_cor_correction_rms vs run
χ² / ndf 9.627e+04 / 45
p0 1025 ± 1.13
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
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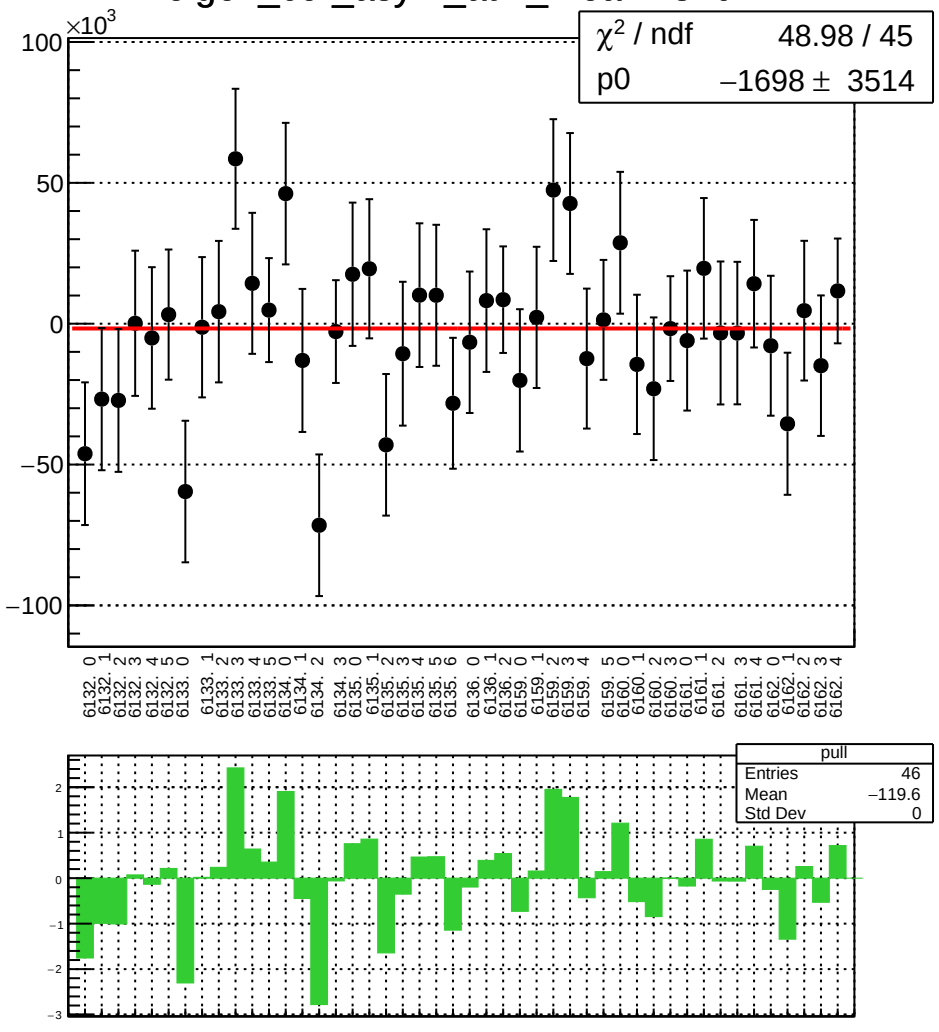
6162. 4


eigen_cor_asym_atl1_mean vs run
×10^3
χ² / ndf 48.98 / 45
p0 −1698 ± 3514
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6135. 0
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6135. 5
6135. 6
6136. 0
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6161. 0
6161. 1
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6161. 4
6162. 0
6162. 1
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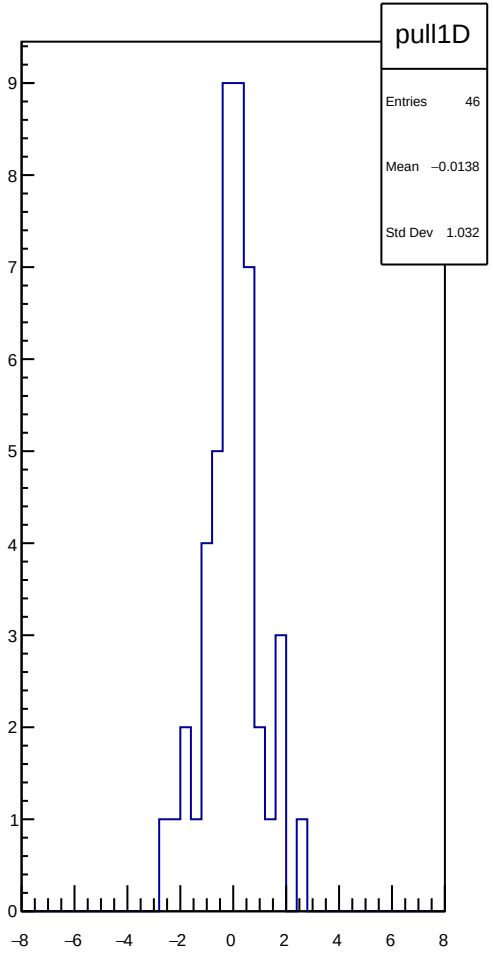
6162. 4
pull
Entries 46
Mean −119.6
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean −0.0138
Std Dev 1.032
9
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−4
−2
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2
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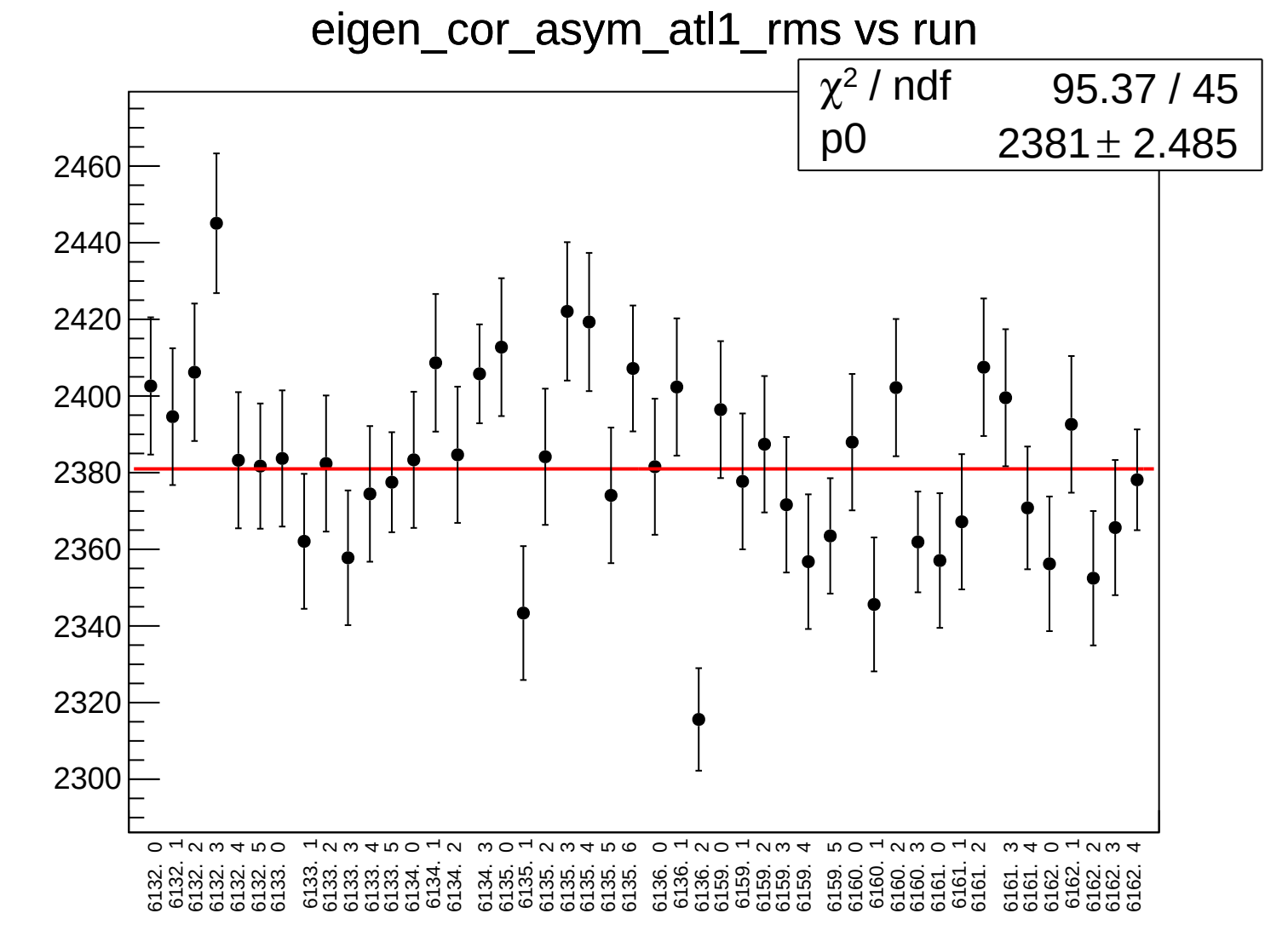
eigen_cor_asym_atl1_rms vs run
χ² / ndf 95.37 / 45
p0 2381 ± 2.485
2460
2440
2420
2400
2380
2360
2340
2320
2300
6132. 0
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6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
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6133. 5
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6135. 6
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6136. 2
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6160. 2
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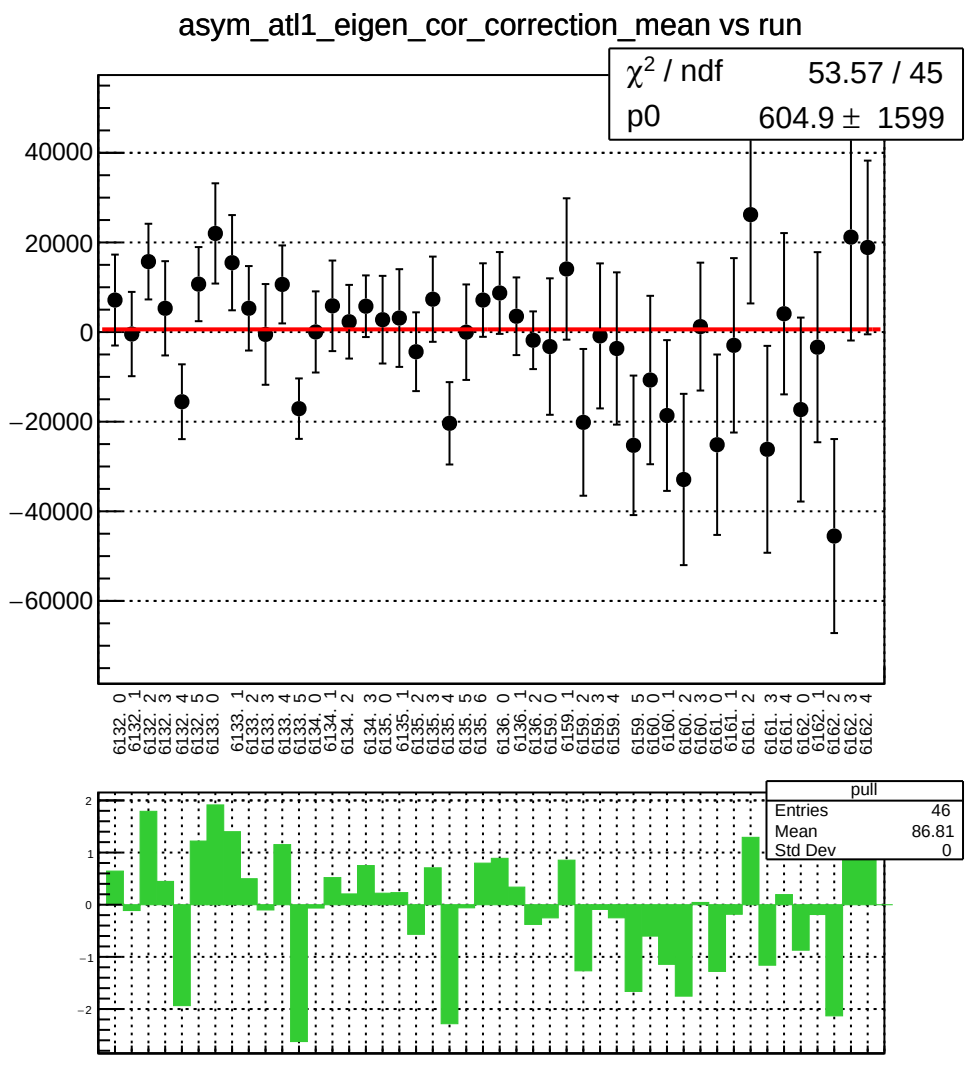
6162. 4


asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 53.57 / 45
p0 604.9 ± 1599
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6161. 4
6162. 0
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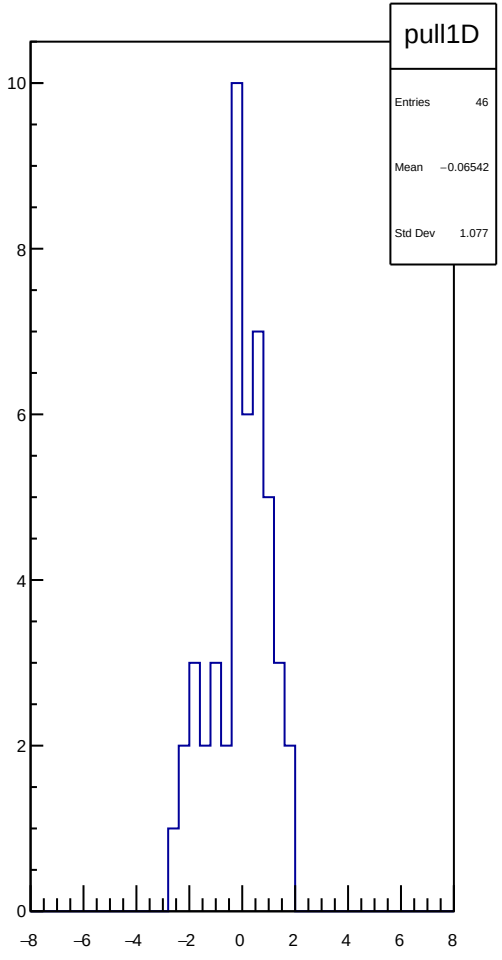
6162. 4
pull
Entries 46
Mean 86.81
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.06542
Std Dev 1.077
10
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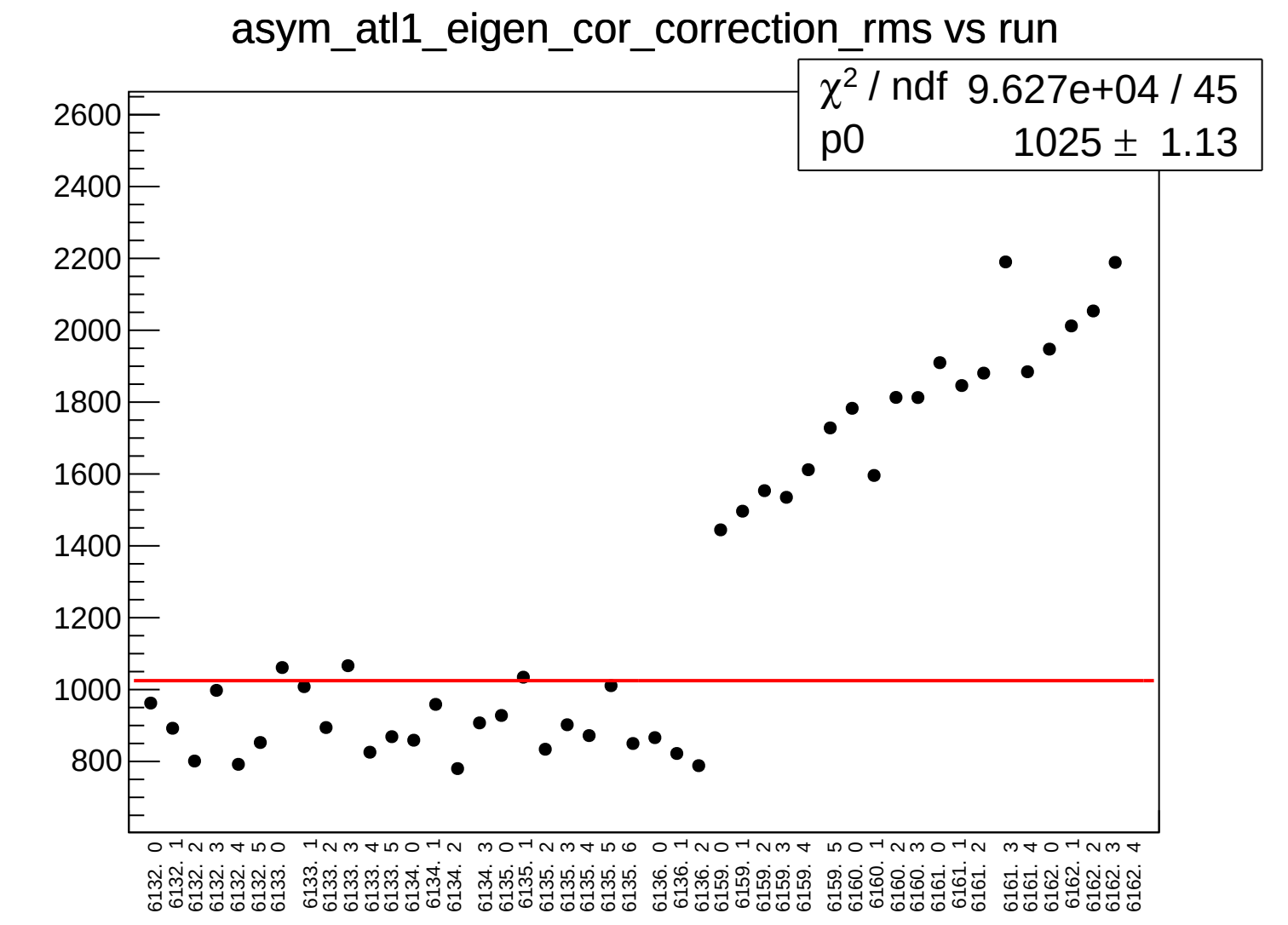
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 9.627e+04 / 45
p0 1025 ± 1.13
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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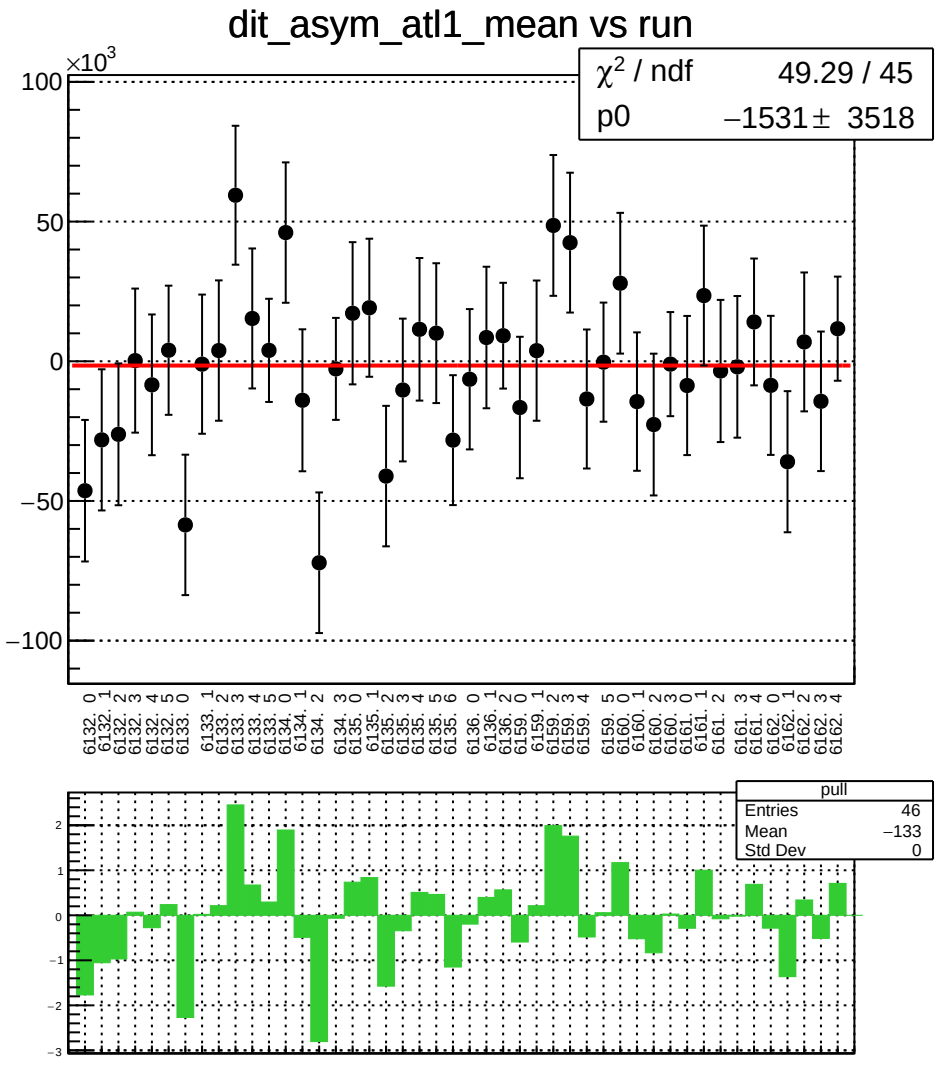
dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 49.29 / 45
p0 −1531 ± 3518
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
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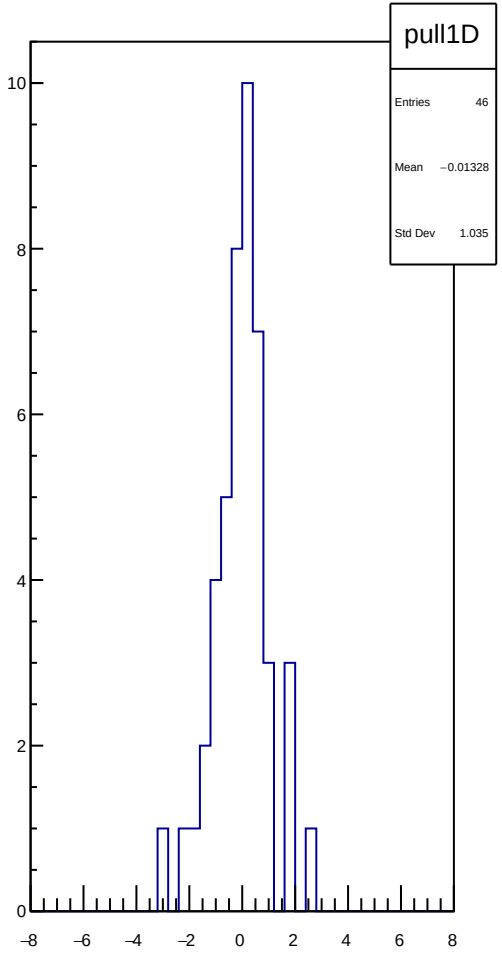
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −133
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean −0.01328
Std Dev 1.035
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6
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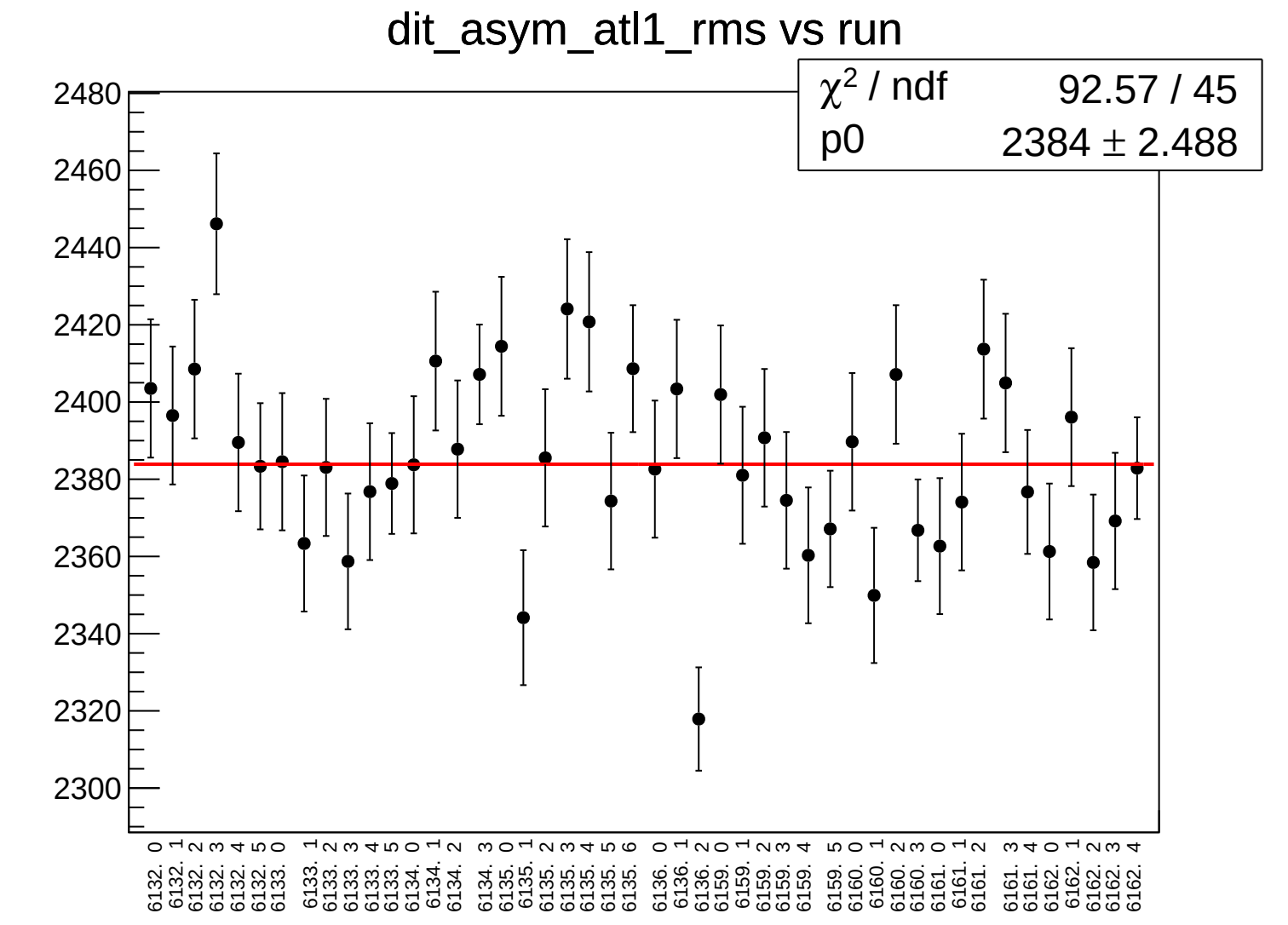
dit_asym_atl1_rms vs run
χ² / ndf 92.57 / 45
p0 2384 ± 2.488
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2300
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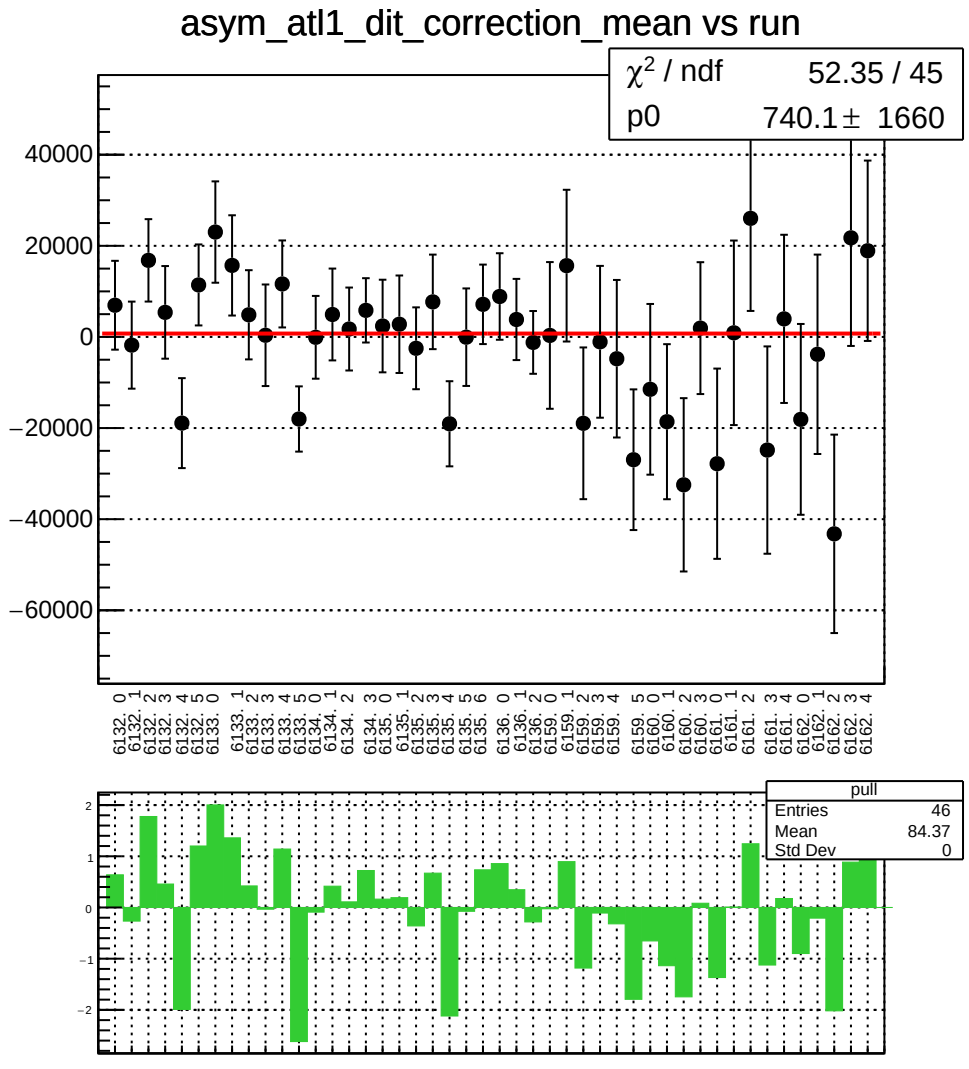
asym_atl1_dit_correction_mean vs run
χ² / ndf 52.35 / 45
p0 740.1 ± 1660
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0
−20000
−40000
−60000
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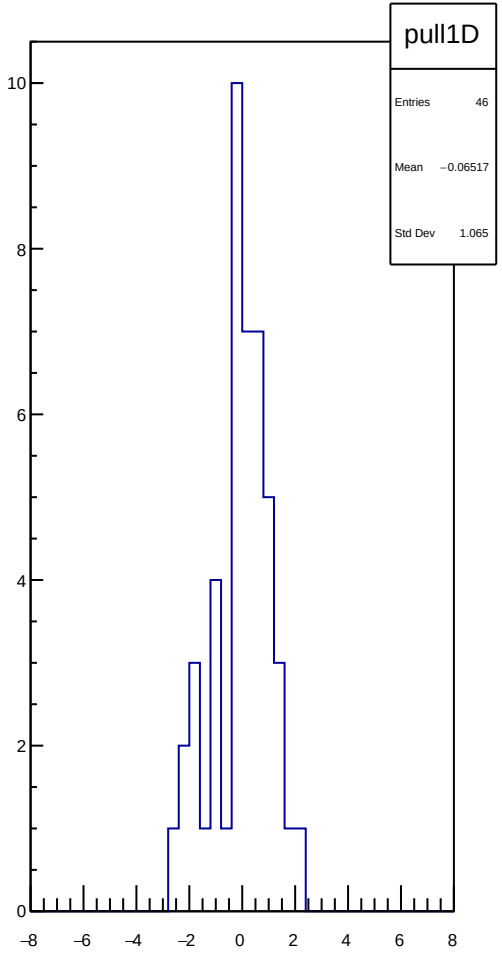
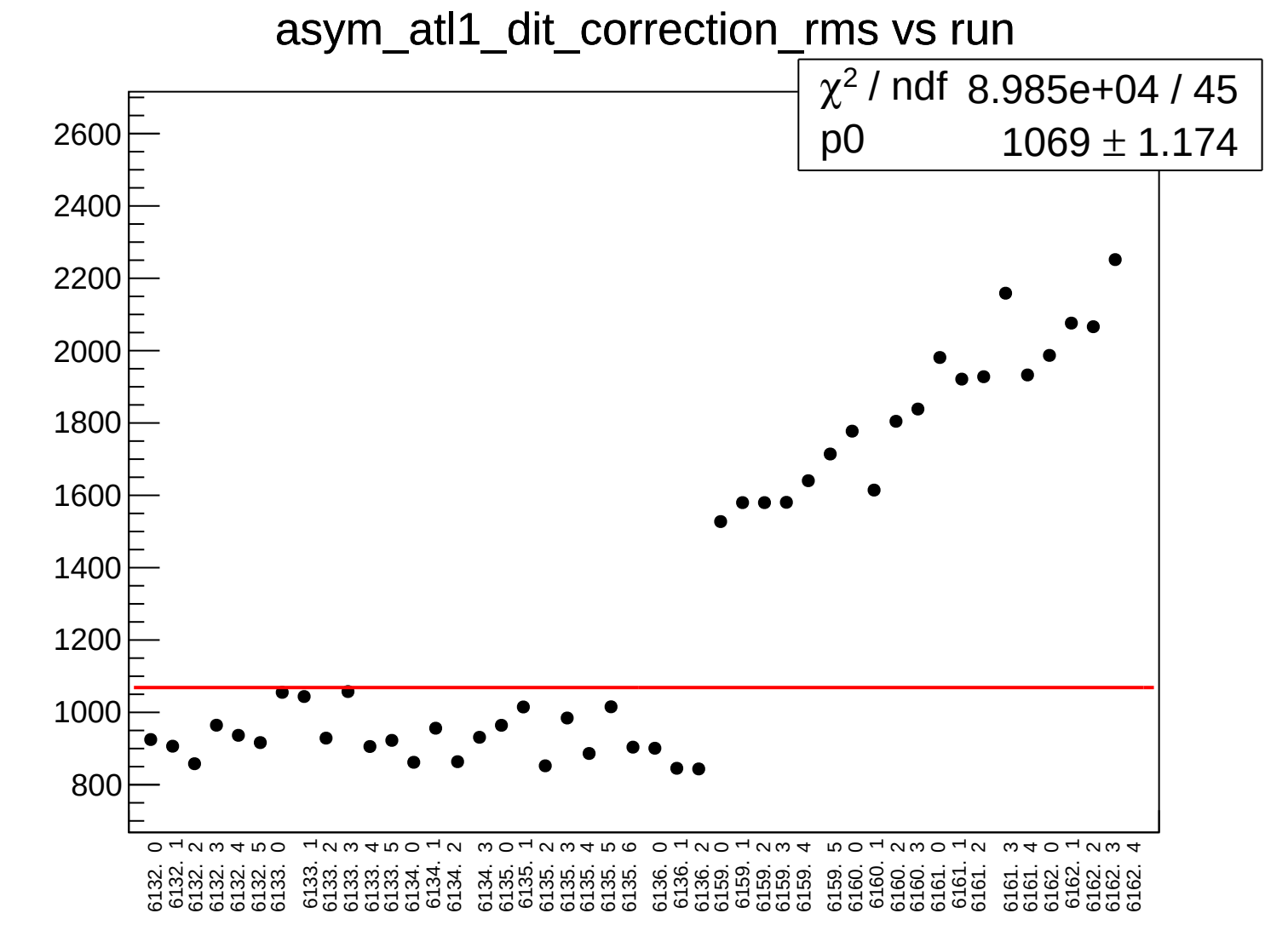
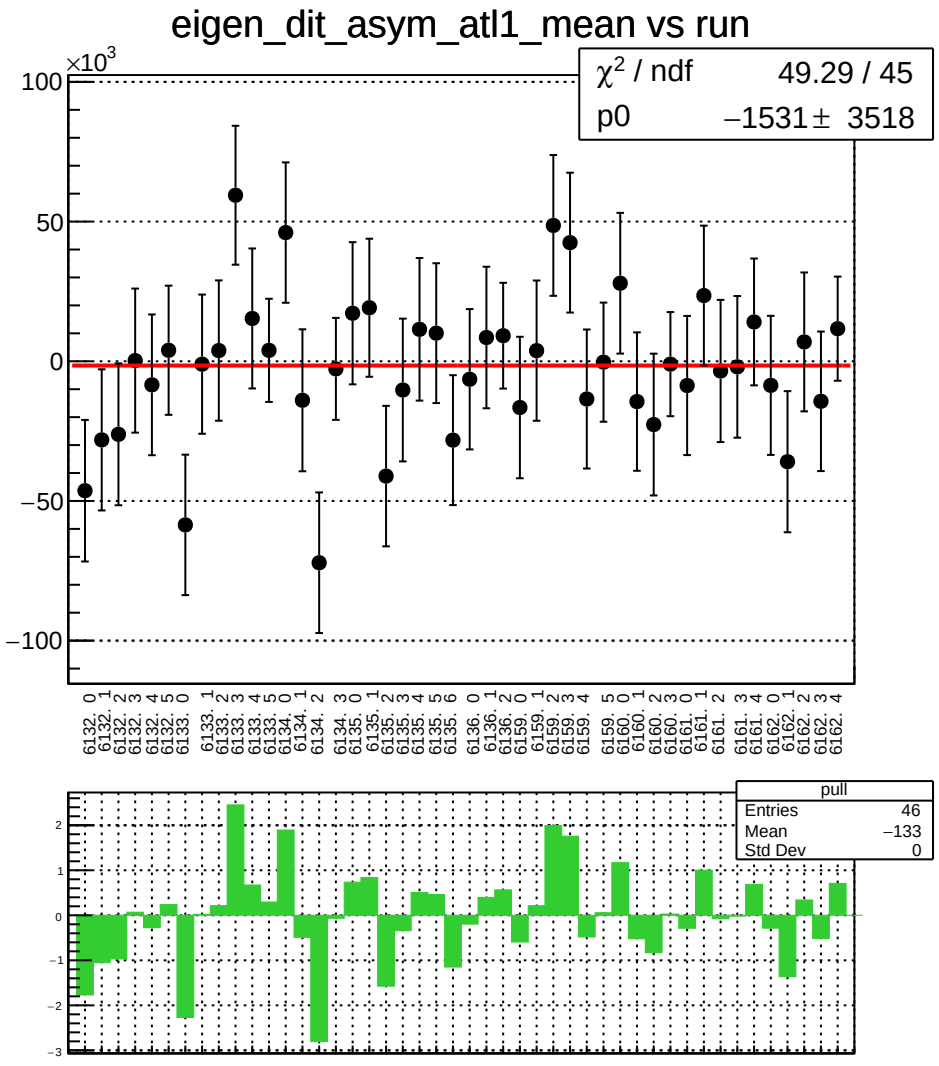
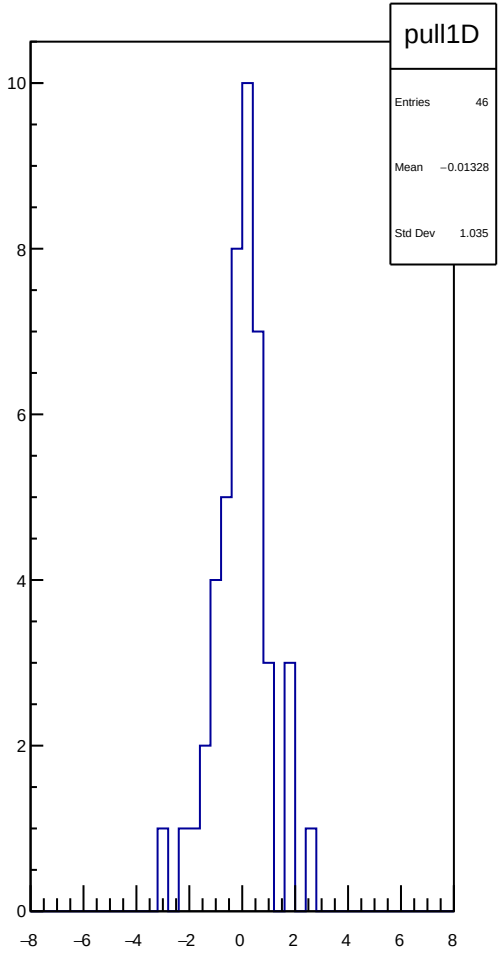
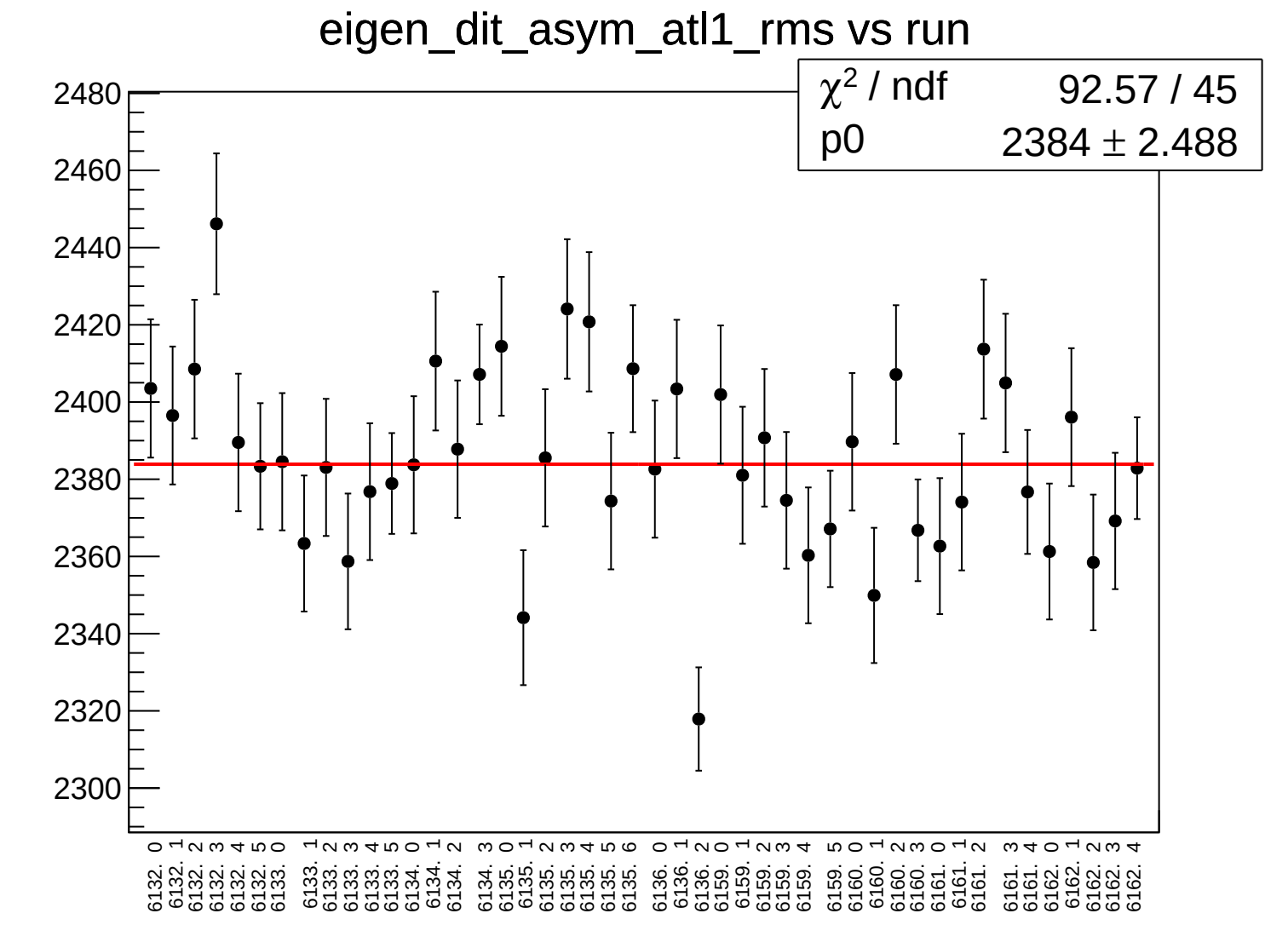
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 84.37
Std Dev 0
2
1
0
−1
−2

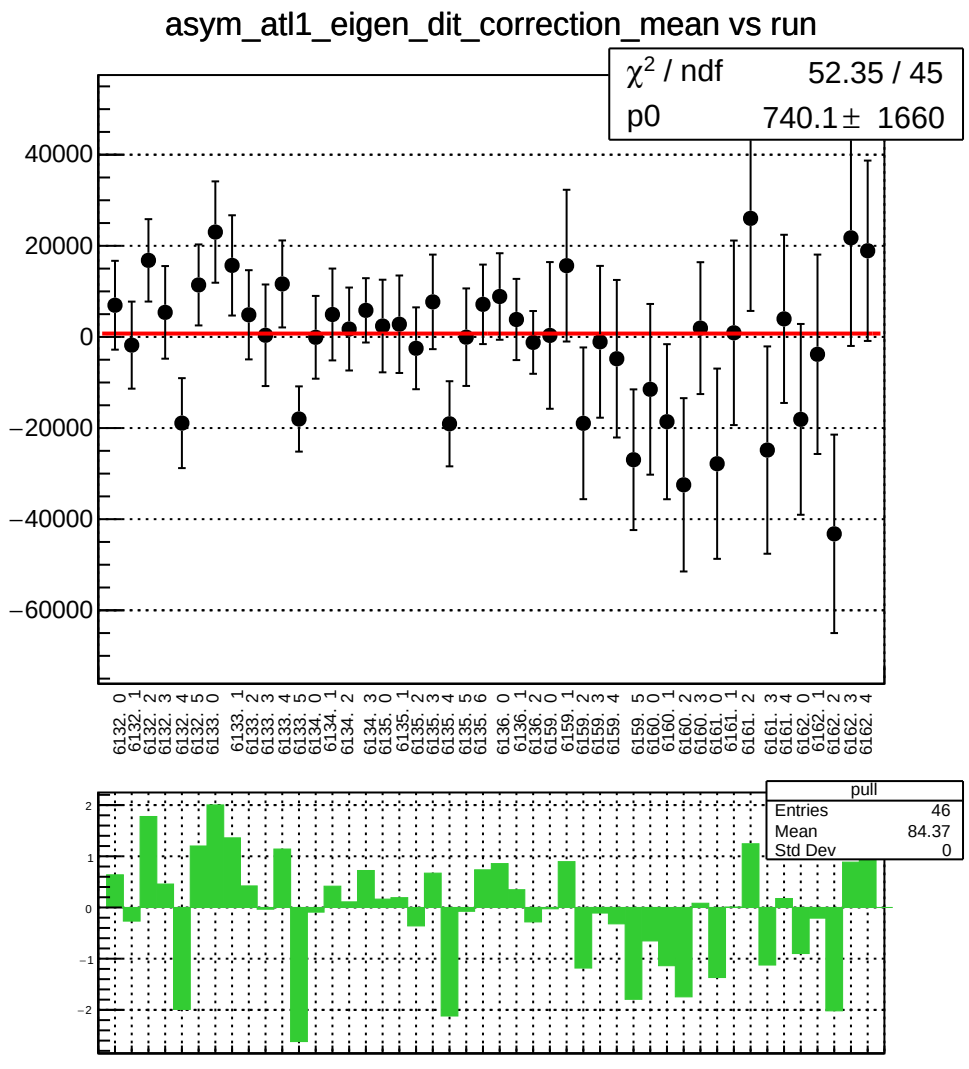

pull1D
Entries 46
Mean −0.06517
Std Dev 1.065
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

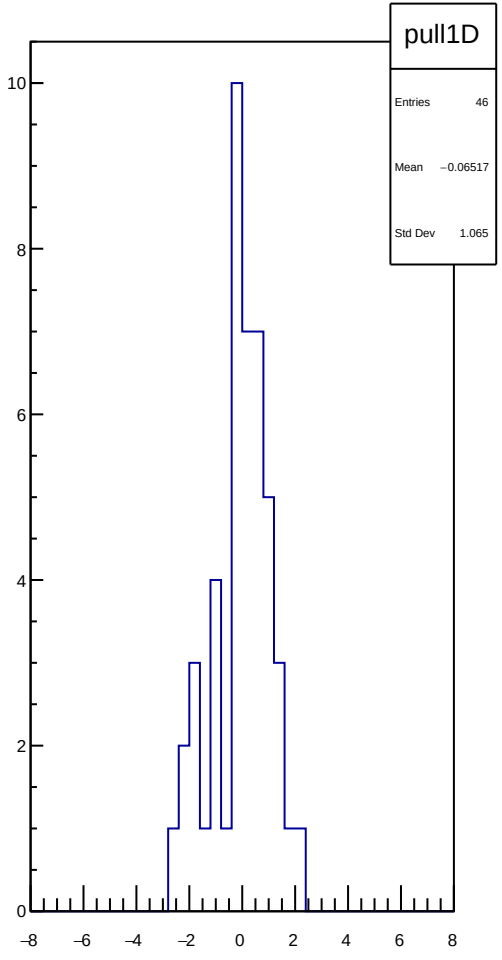

asym_atl1_dit_correction_rms vs run
χ² / ndf 8.985e+04 / 45
p0 1069 ± 1.174
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

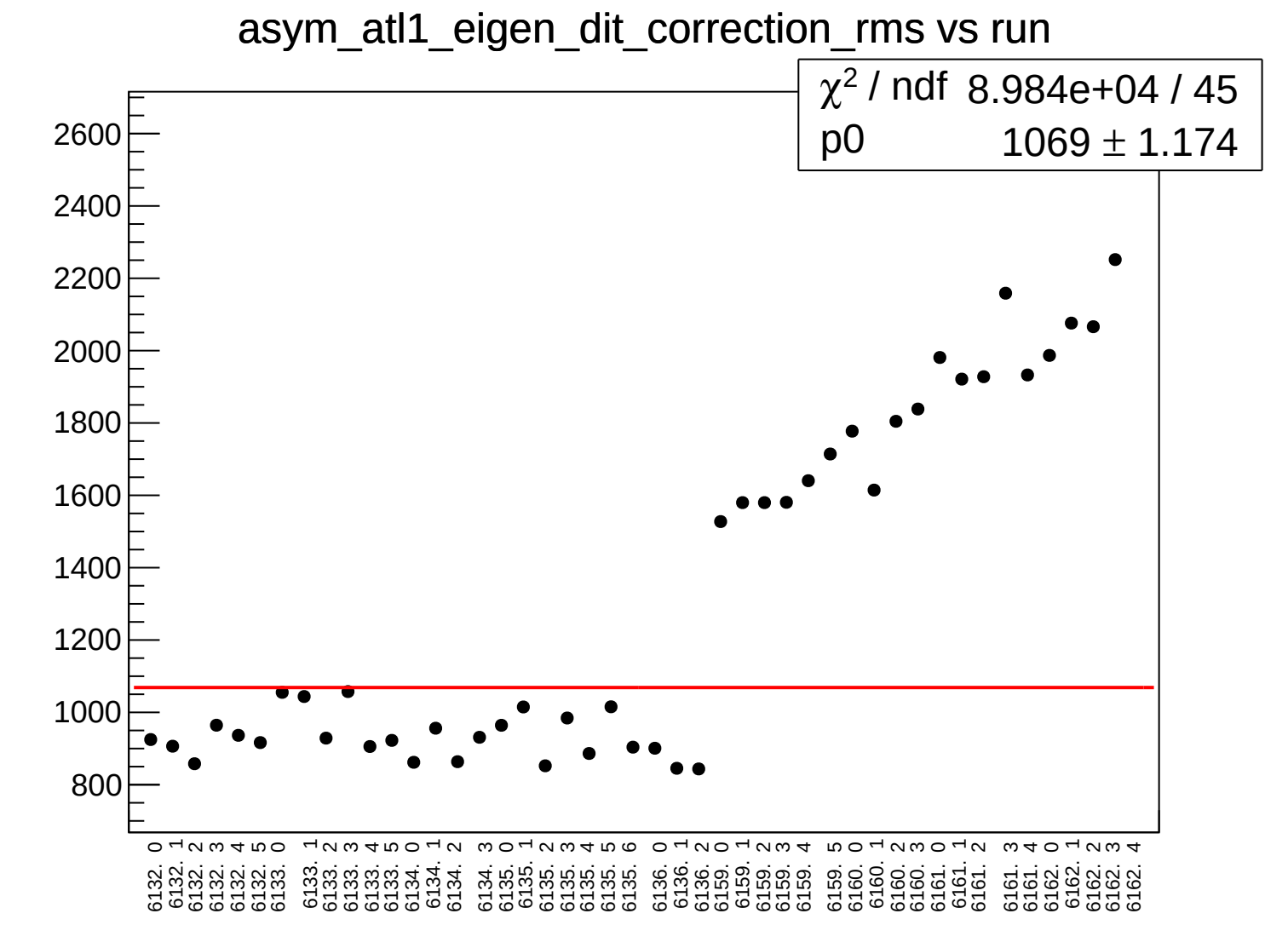

eigen_dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 49.29 / 45
p0 −1531 ± 3518
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −133
Std Dev 0
2
1
0
−1
−2
−3

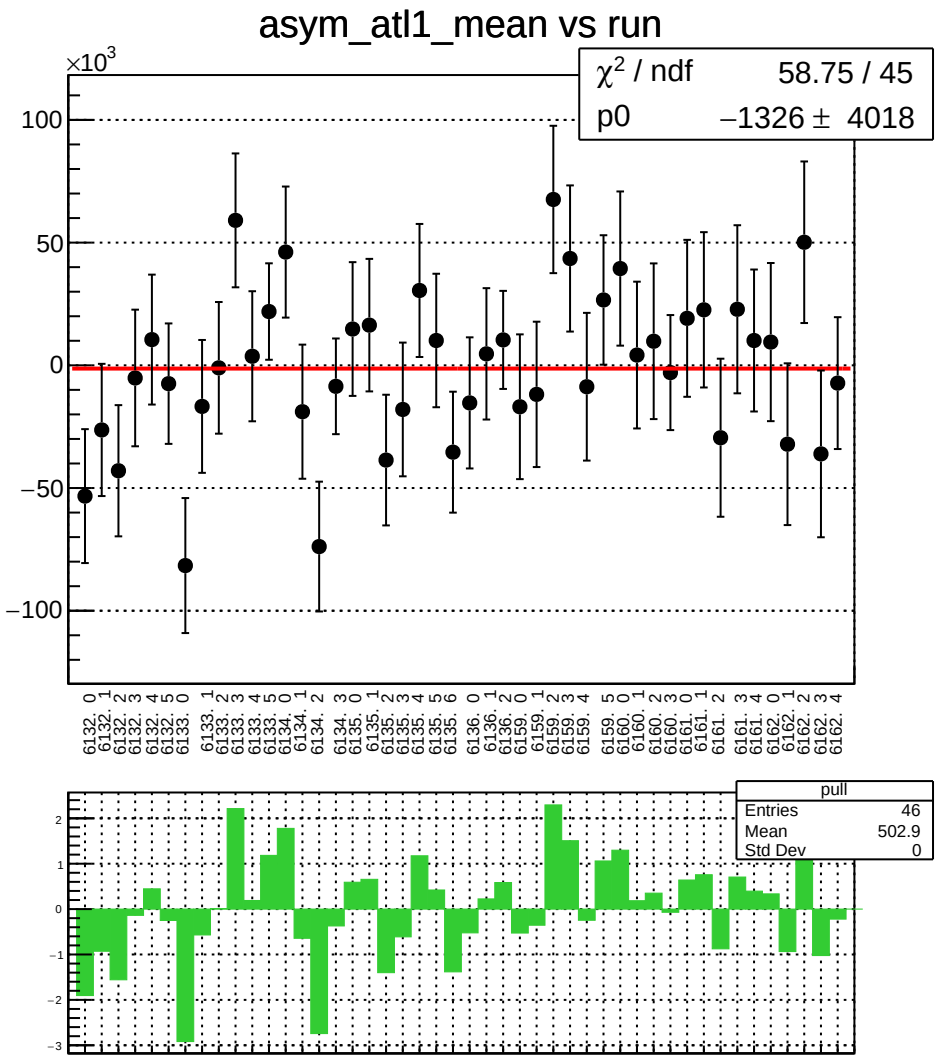

pull1D
Entries 46
Mean −0.01328
Std Dev 1.035
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

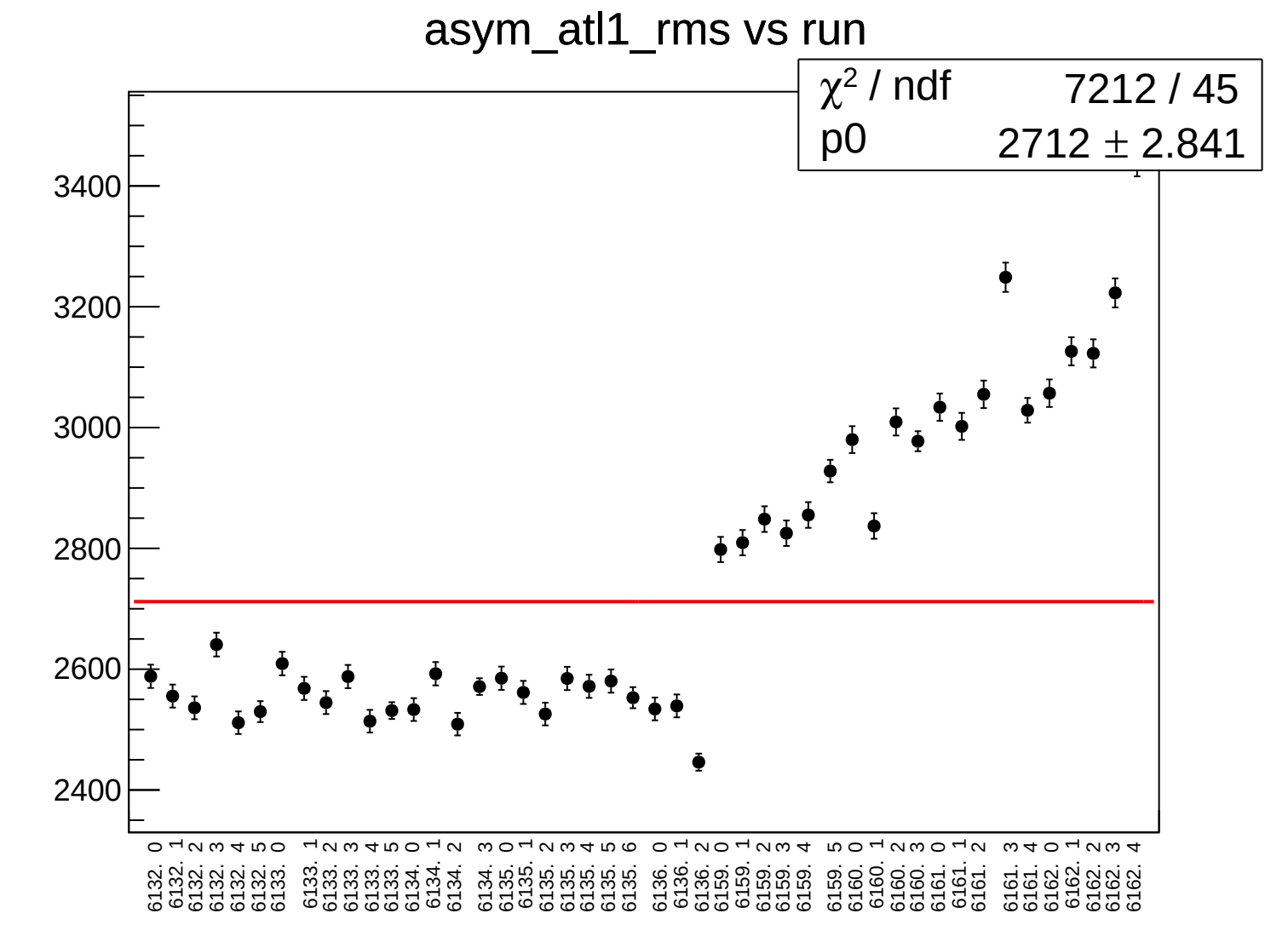

eigen_dit_asym_atl1_rms vs run
χ² / ndf 92.57 / 45
p0 2384 ± 2.488
2480
2460
2440
2420
2400
2380
2360
2340
2320
2300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

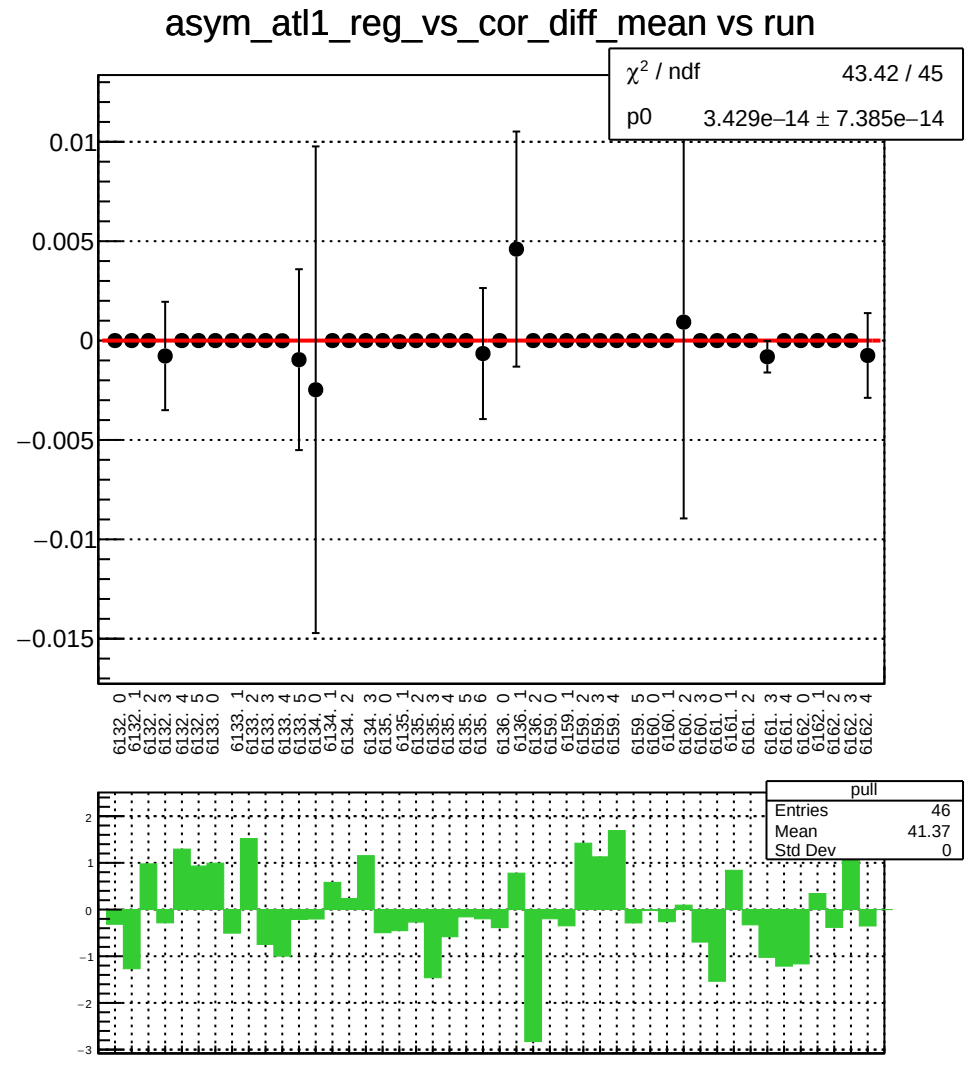

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 52.35 / 45
p0 740.1 ± 1660
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 84.37
Std Dev 0
2
1
0
−1
−2

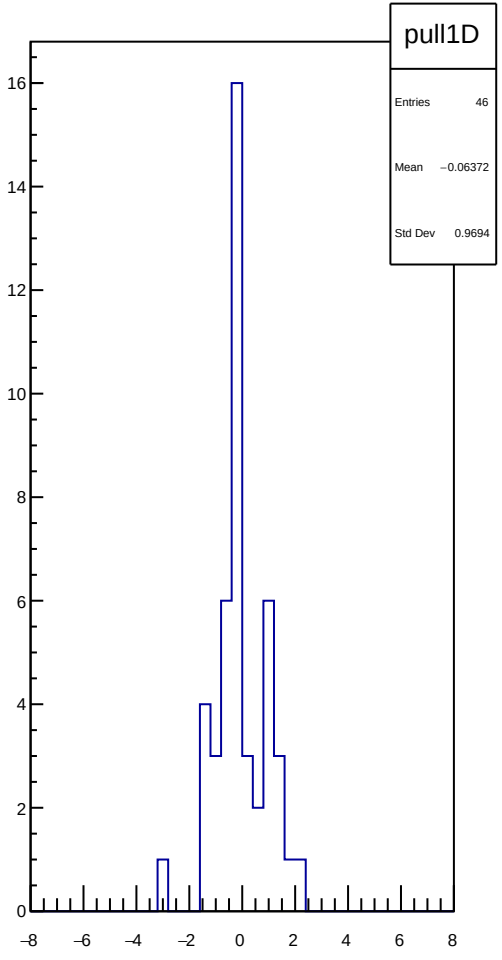

pull1D
Entries 46
Mean −0.06517
Std Dev 1.065
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

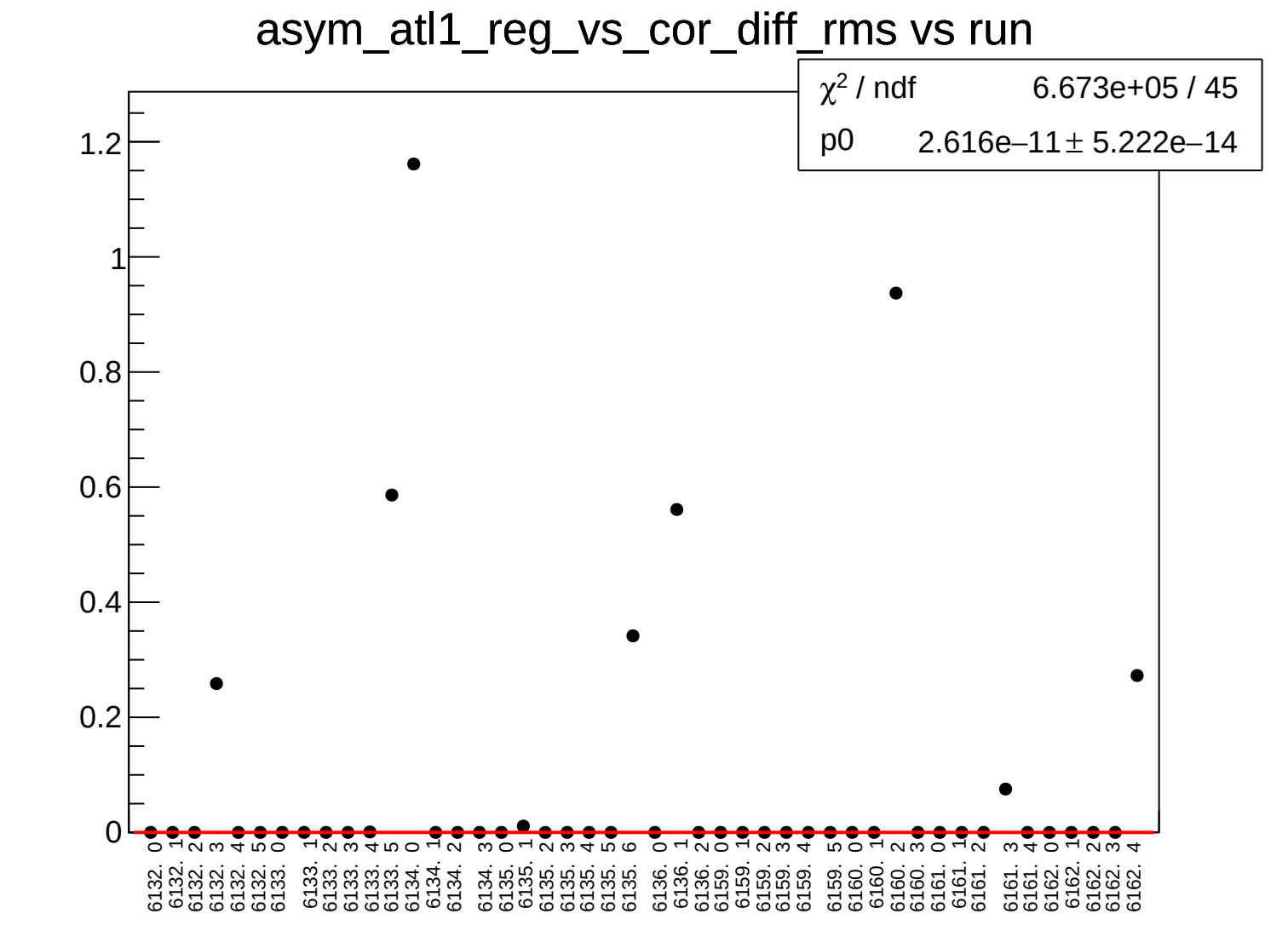

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 8.984e+04 / 45
p0 1069 ± 1.174
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

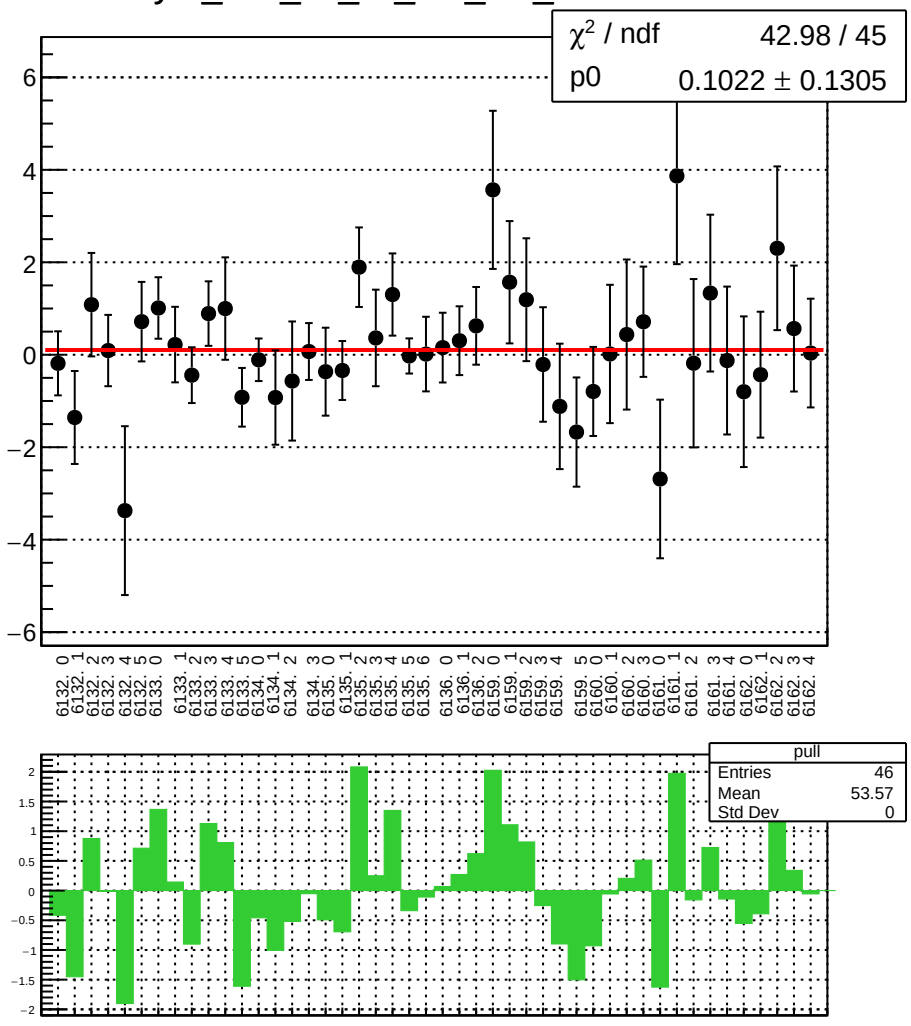

asym_atl1_mean vs run
×10^3
χ^2 / ndf 58.75 / 45
p0 −1326 ± 4018
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6136. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 502.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean 0.008105
Std Dev 1.13
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

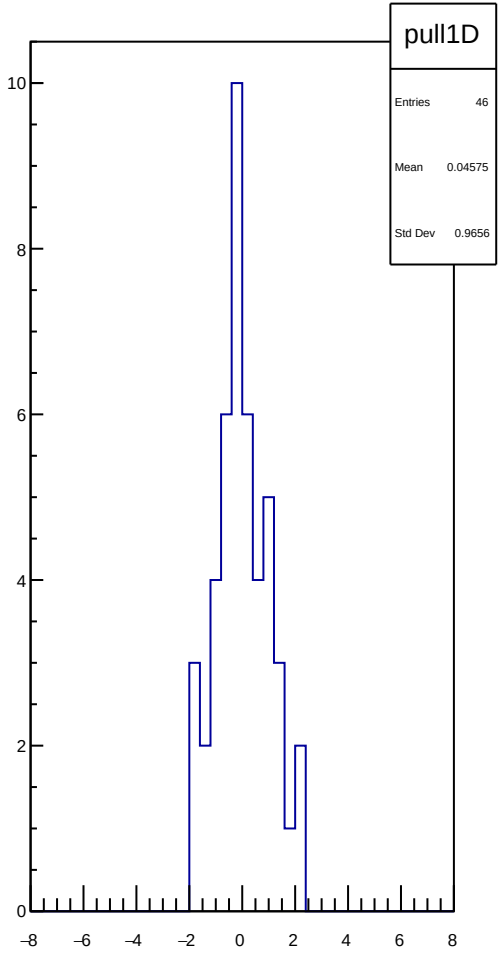

asym_atl1_rms vs run
χ² / ndf 7212 / 45
p0 2712 ± 2.841
3400
3200
3000
2800
2600
2400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

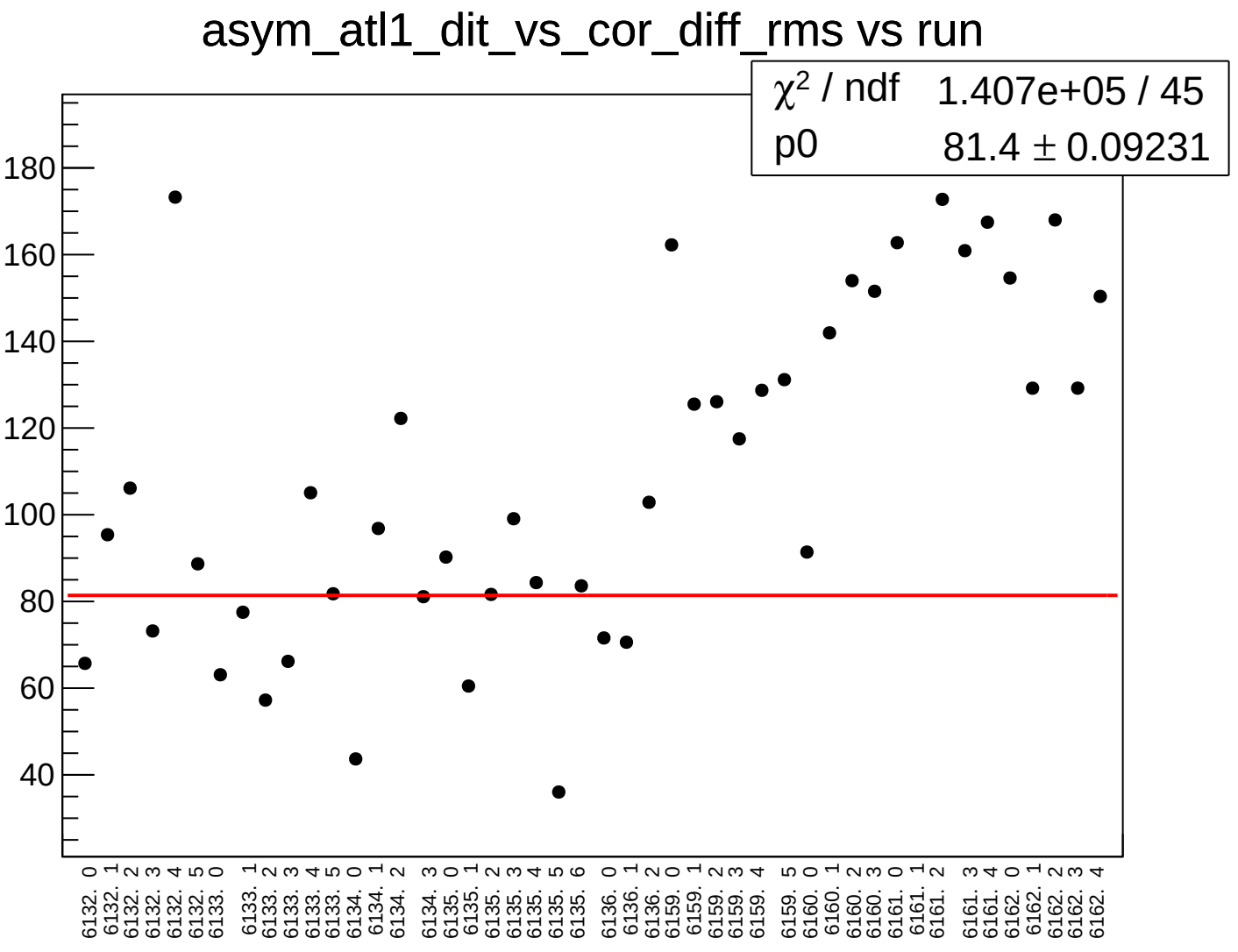

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 43.42 / 45
p0 3.429e−14 ± 7.385e−14
0.01
0.005
0
−0.005
−0.01
−0.015
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 41.37
Std Dev 0
2
1
0
−1
−2
−3

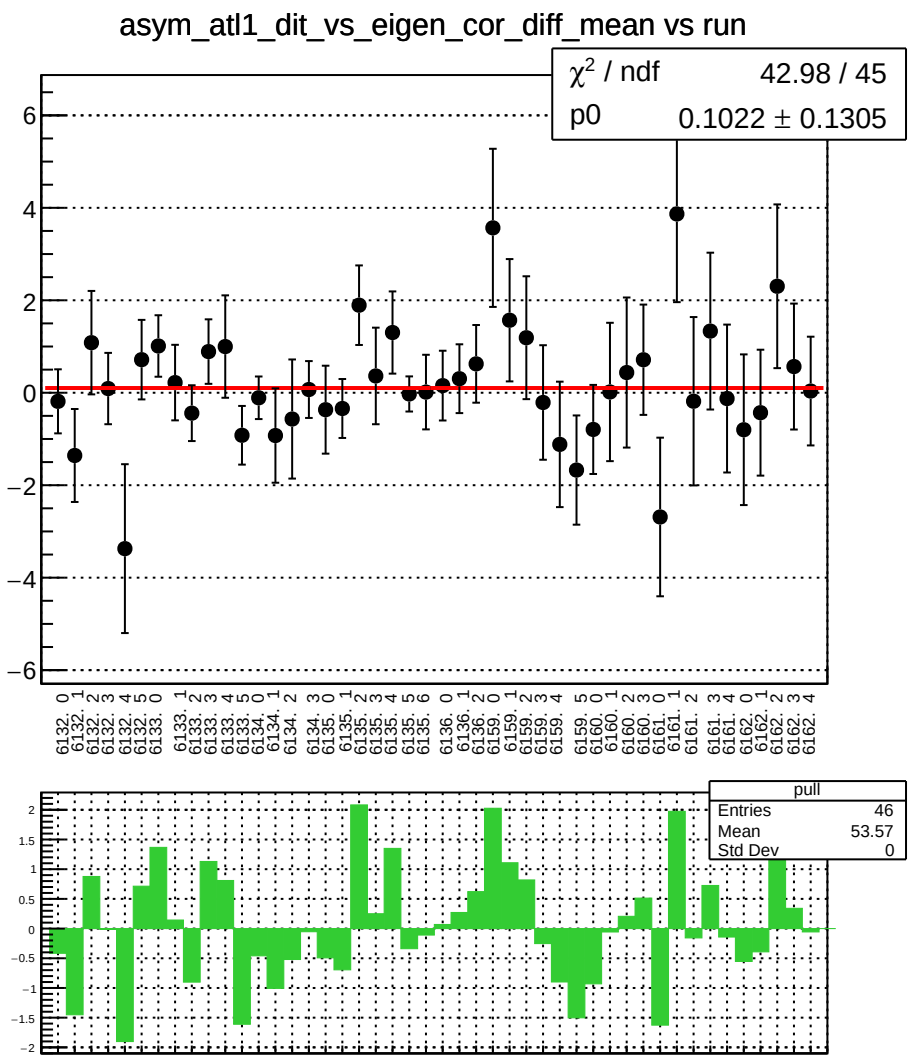

pull1D
Entries 46
Mean −0.06372
Std Dev 0.9694
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

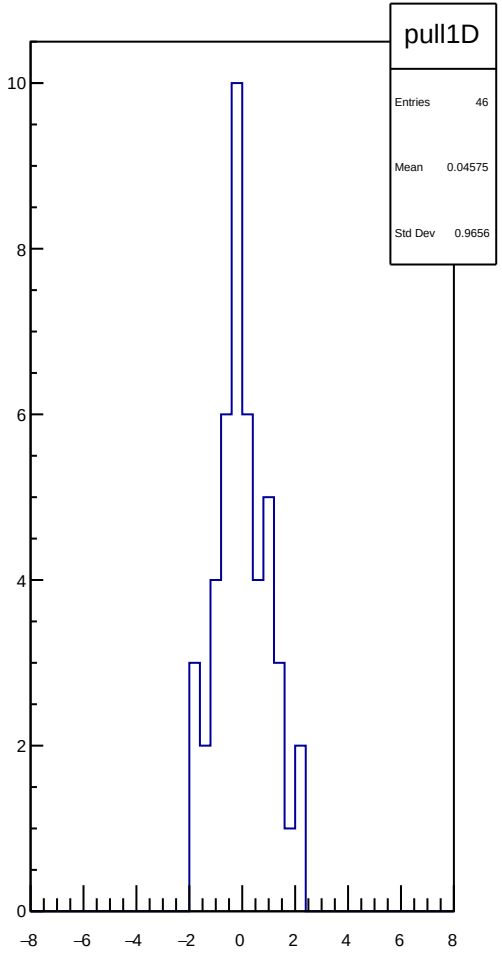

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 6.673e+05 / 45
p0 2.616e−11 ± 5.222e−14
1.2
1
0.8
0.6
0.4
0.2
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

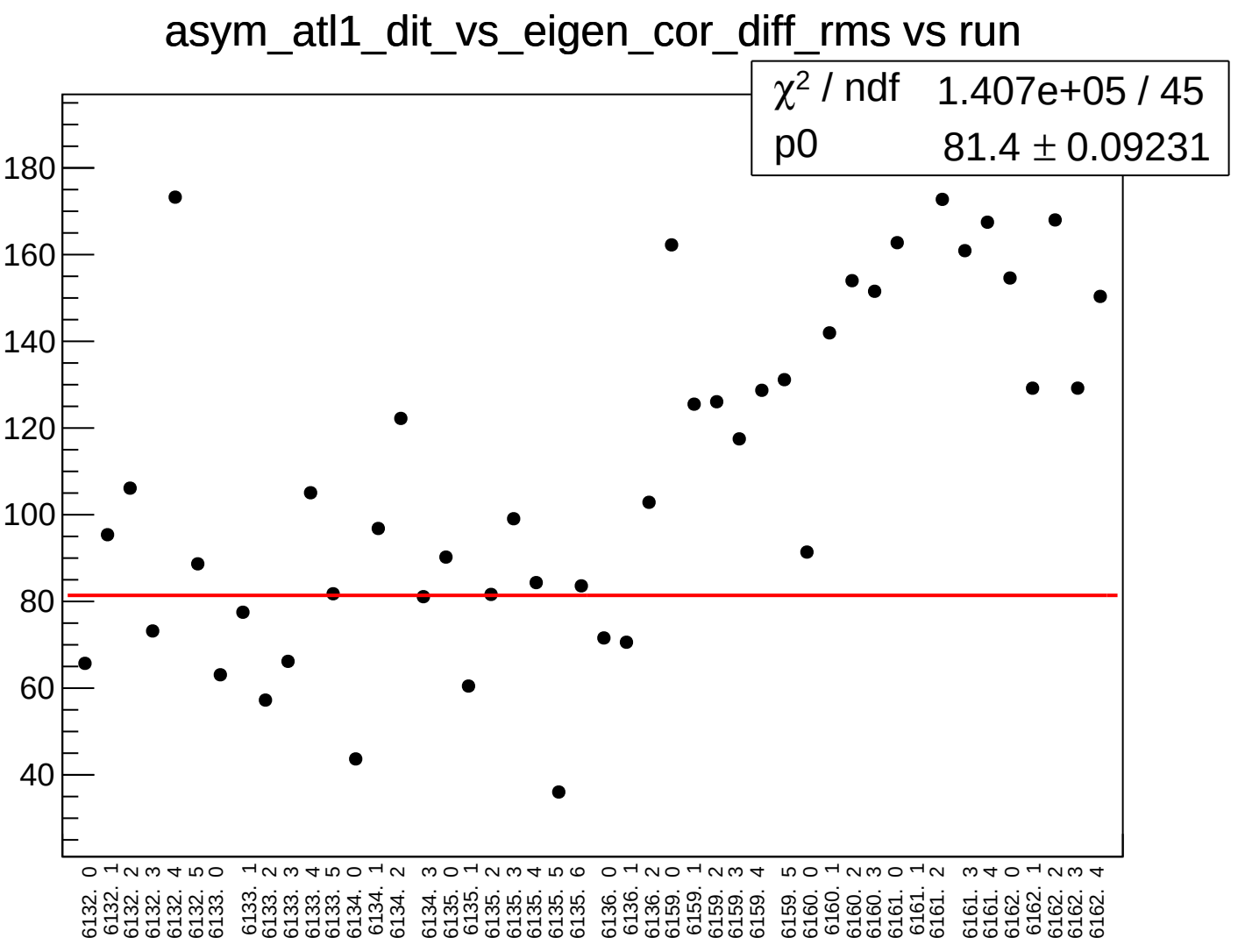

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 42.98 / 45
p0 0.1022 ± 0.1305
pull
Entries 46
Mean 53.57
Std Dev 0

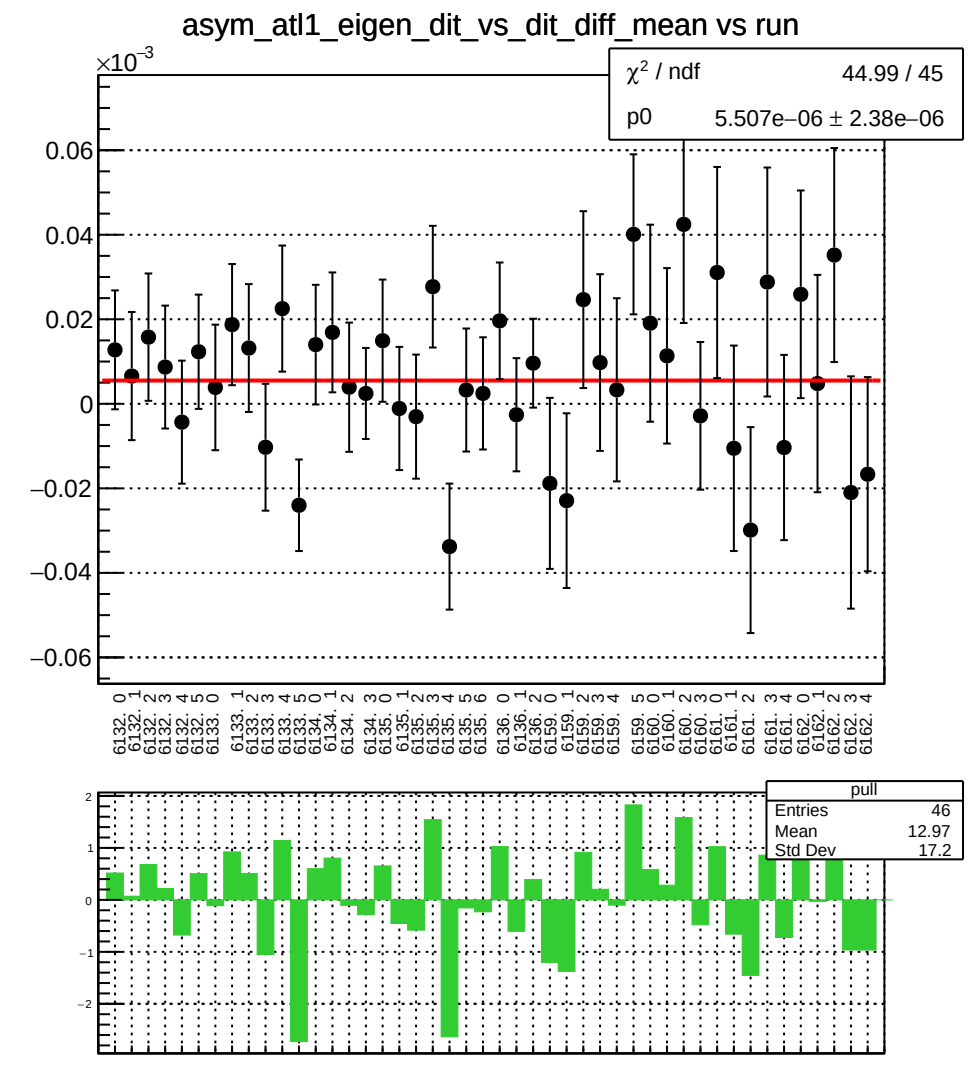

pull1D
Entries 46
Mean 0.04575
Std Dev 0.9656

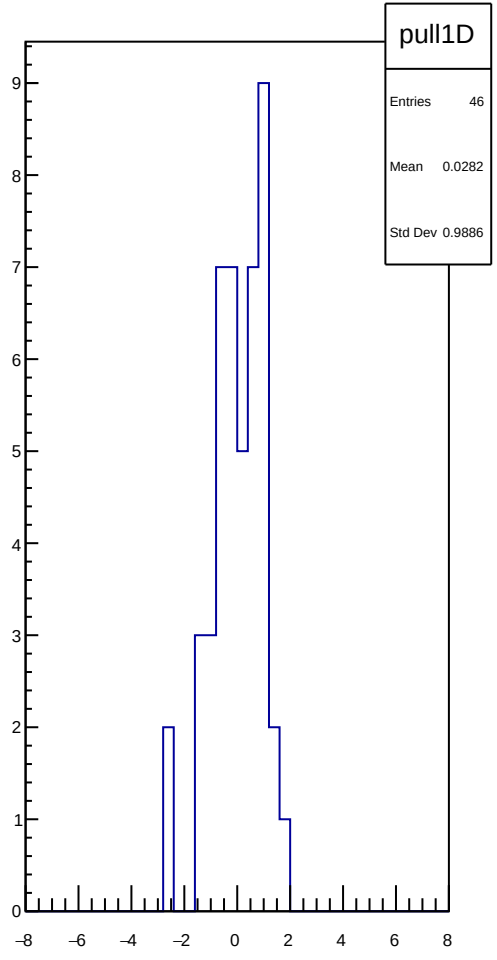

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.407e+05 / 45
p0 81.4 ± 0.09231
180
160
140
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

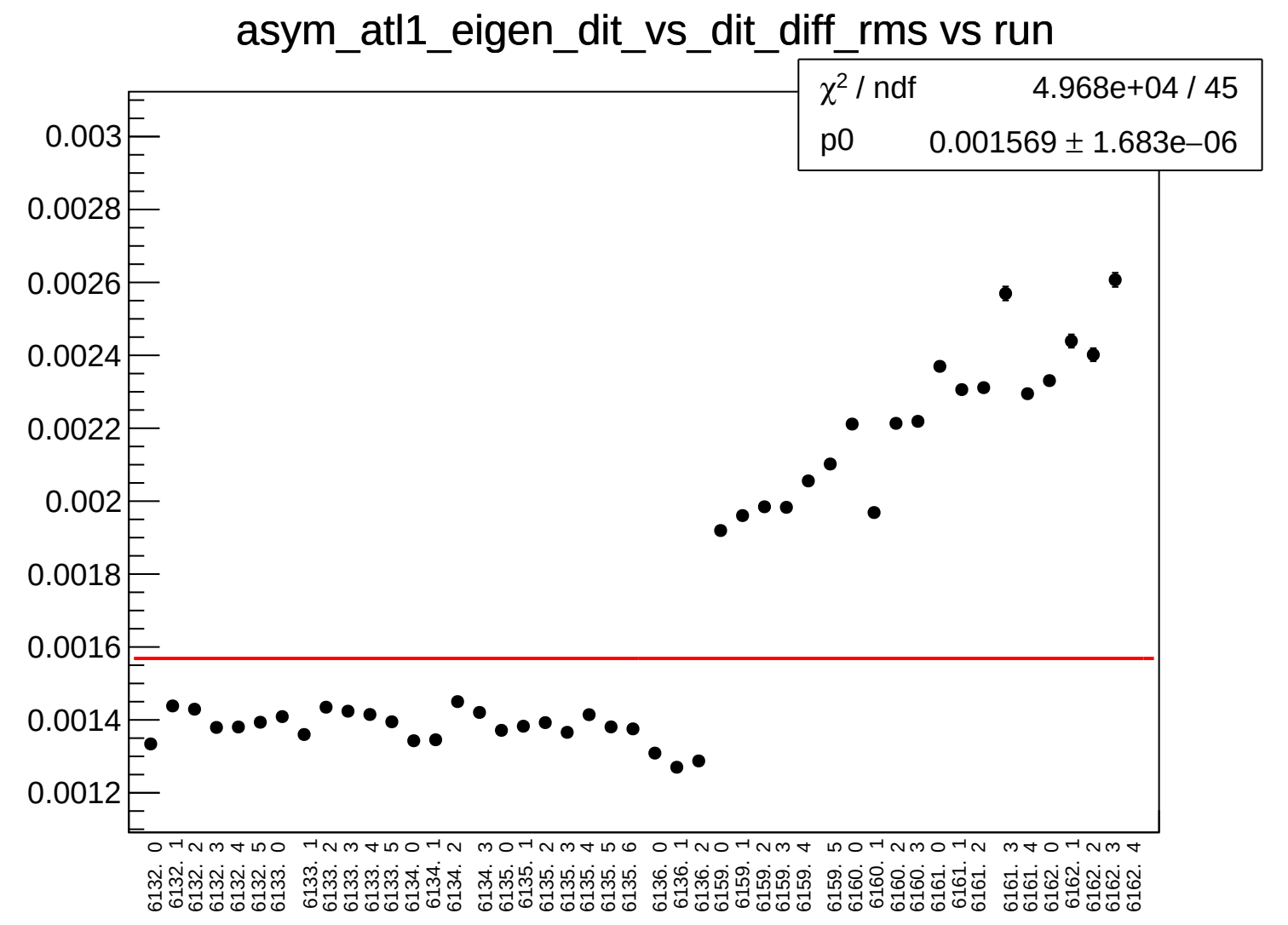

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.98 / 45
p0 0.1022 ± 0.1305
pull
Entries 46
Mean 53.57
Std Dev 0

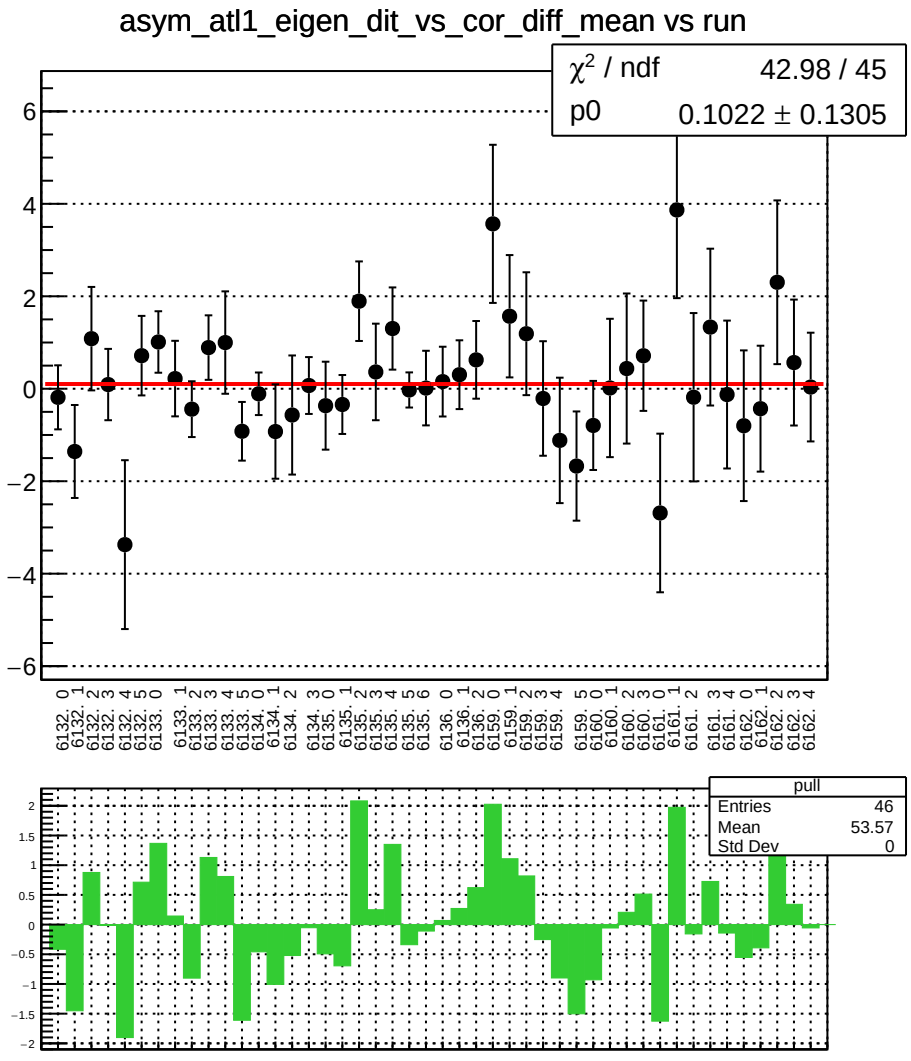

pull1D
Entries 46
Mean 0.04575
Std Dev 0.9656

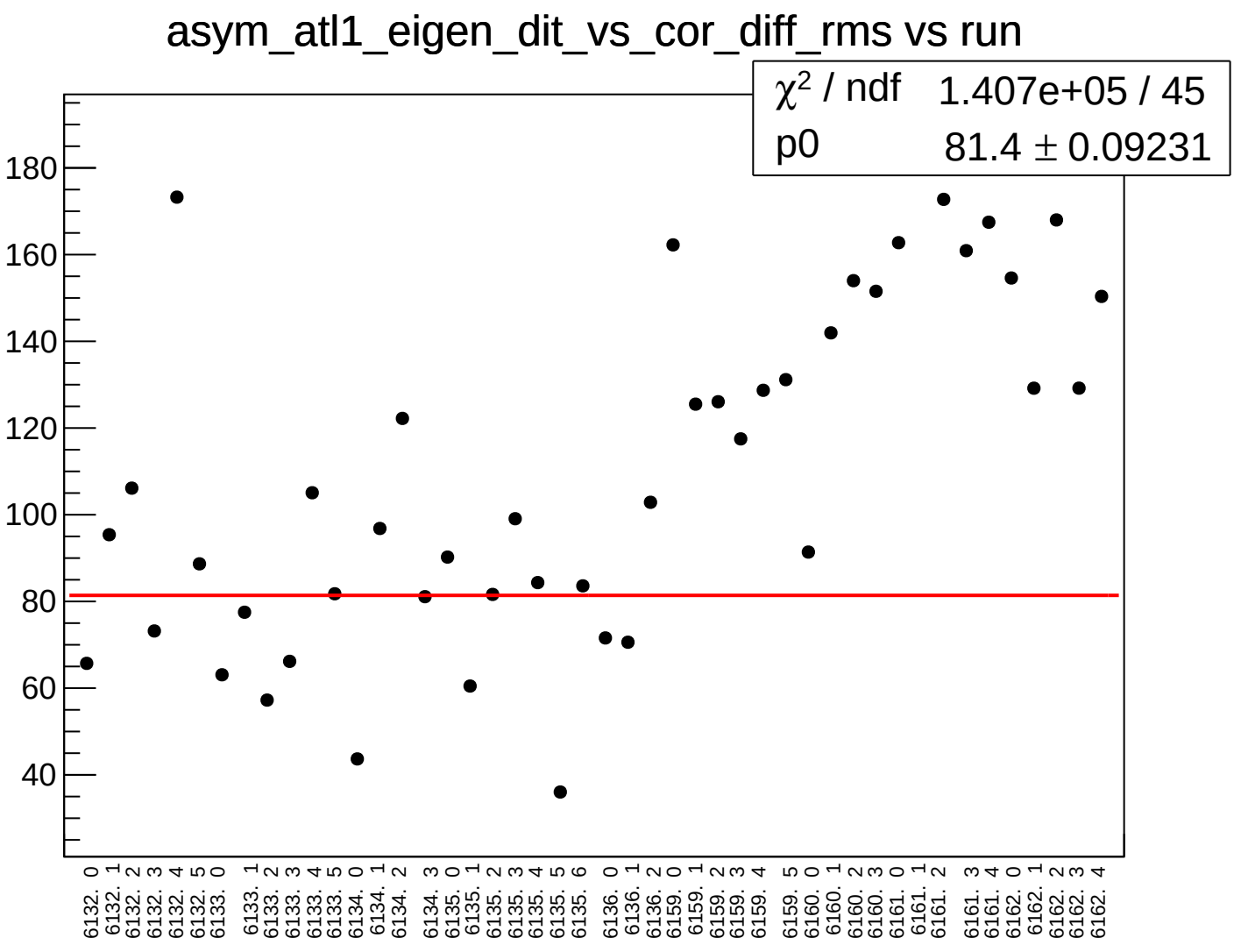

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.407e+05 / 45
p0 81.4 ± 0.09231
180
160
140
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 44.99 / 45
p0 5.507e−06 ± 2.38e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 12.97
Std Dev 17.2
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.0282
Std Dev 0.9886
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.968e+04 / 45
p0 0.001569 ± 1.683e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 42.98 / 45
p0 0.1022 ± 0.1305
pull
Entries 46
Mean 53.57
Std Dev 0
pull1D
Entries 46
Mean 0.04575
Std Dev 0.9656


asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.407e+05 / 45
p0 81.4 ± 0.09231
180
160
140
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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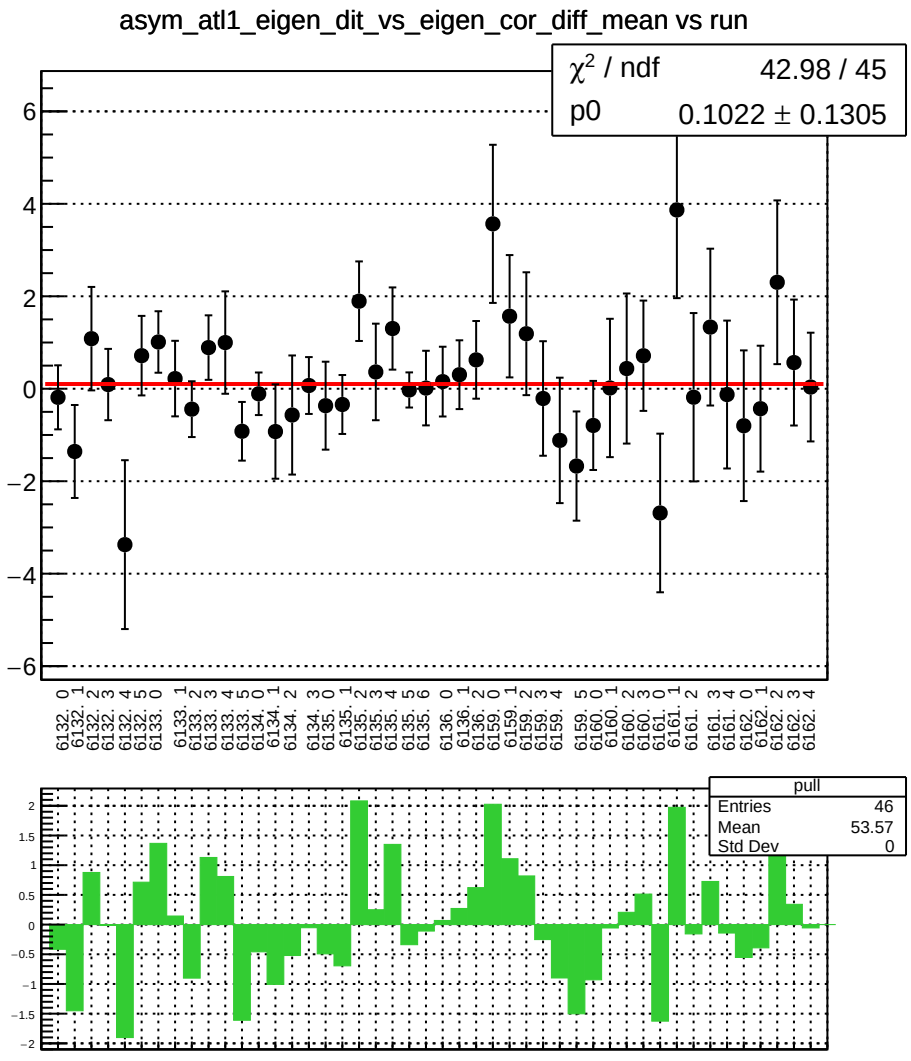
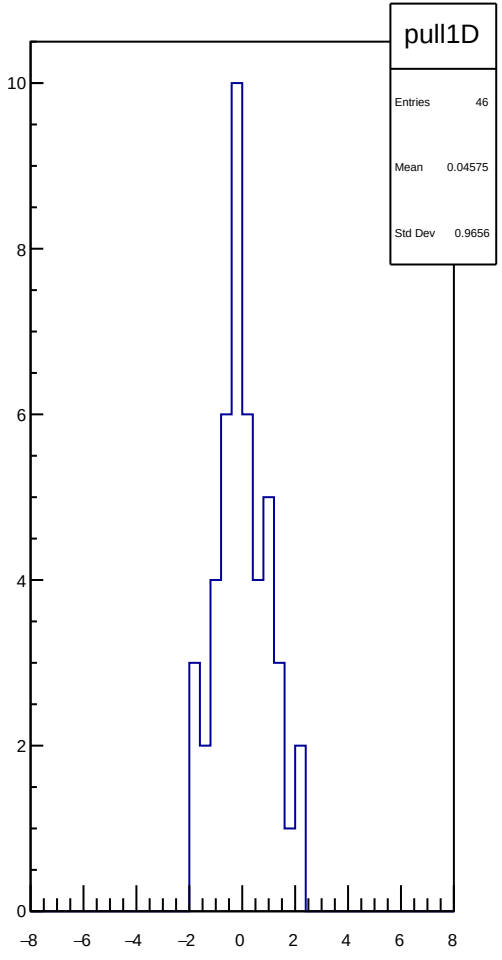
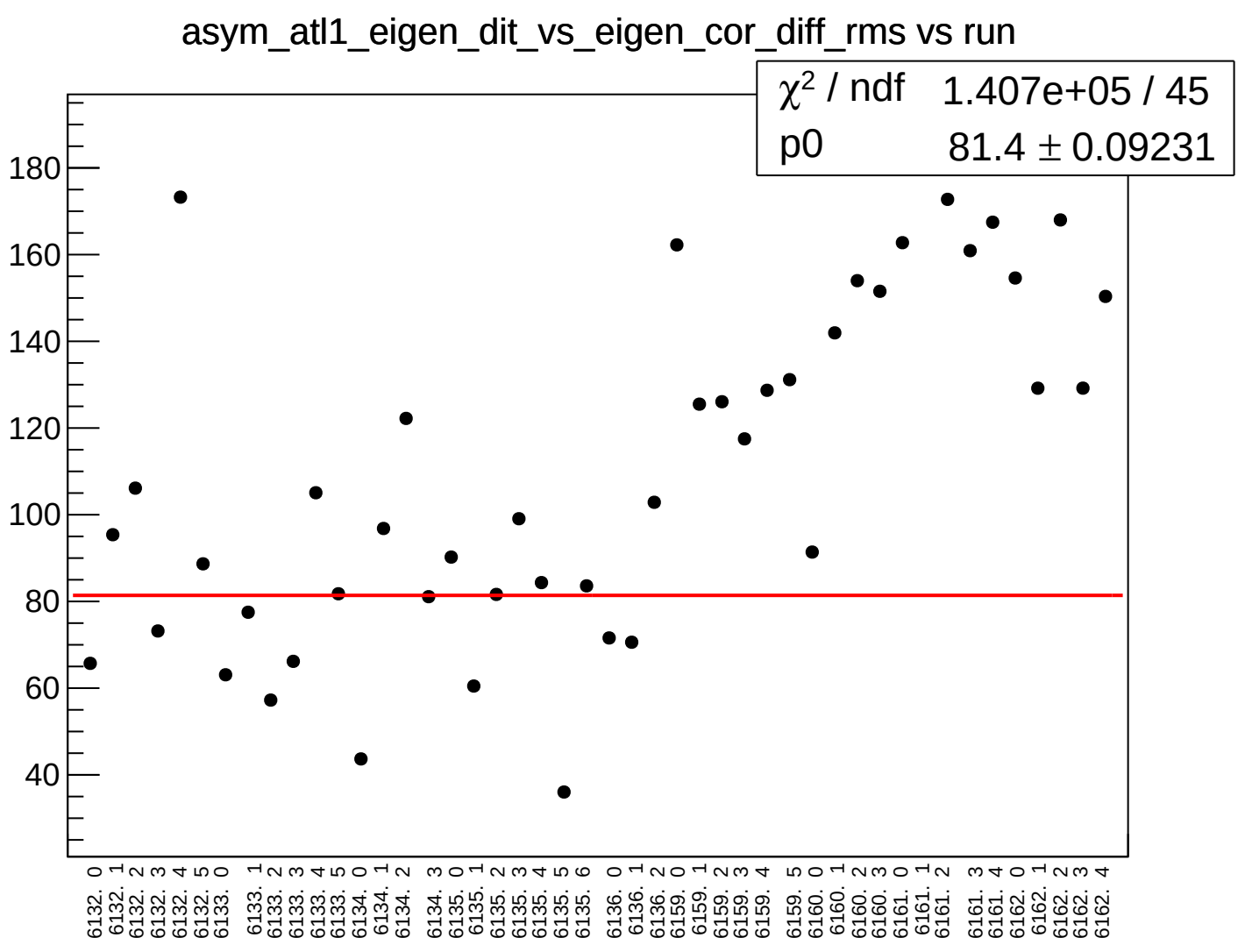
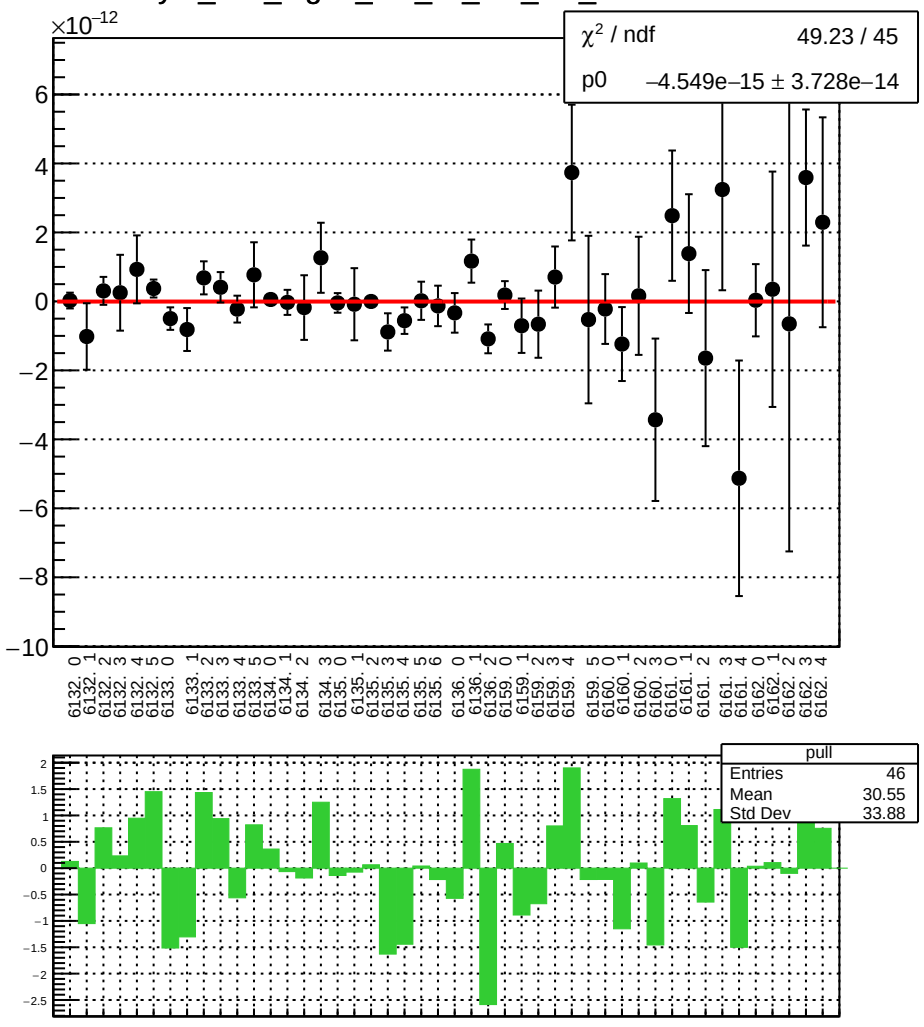
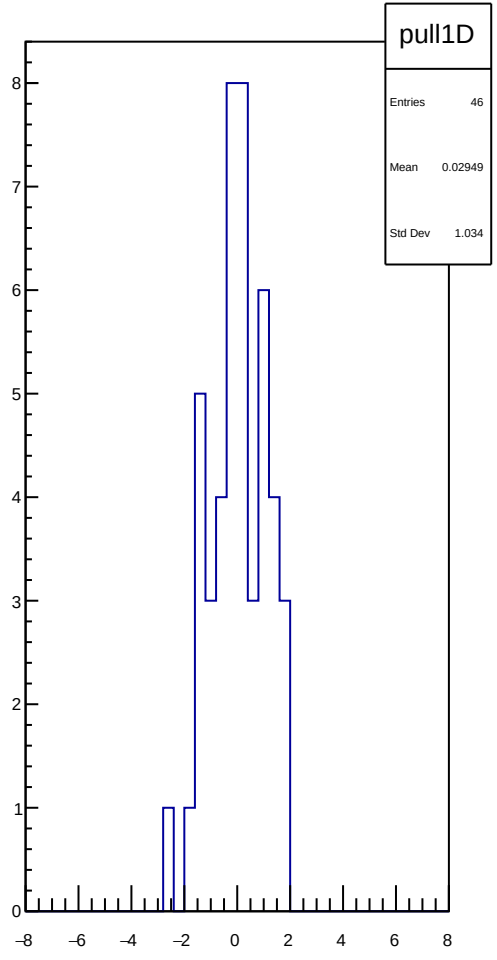
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

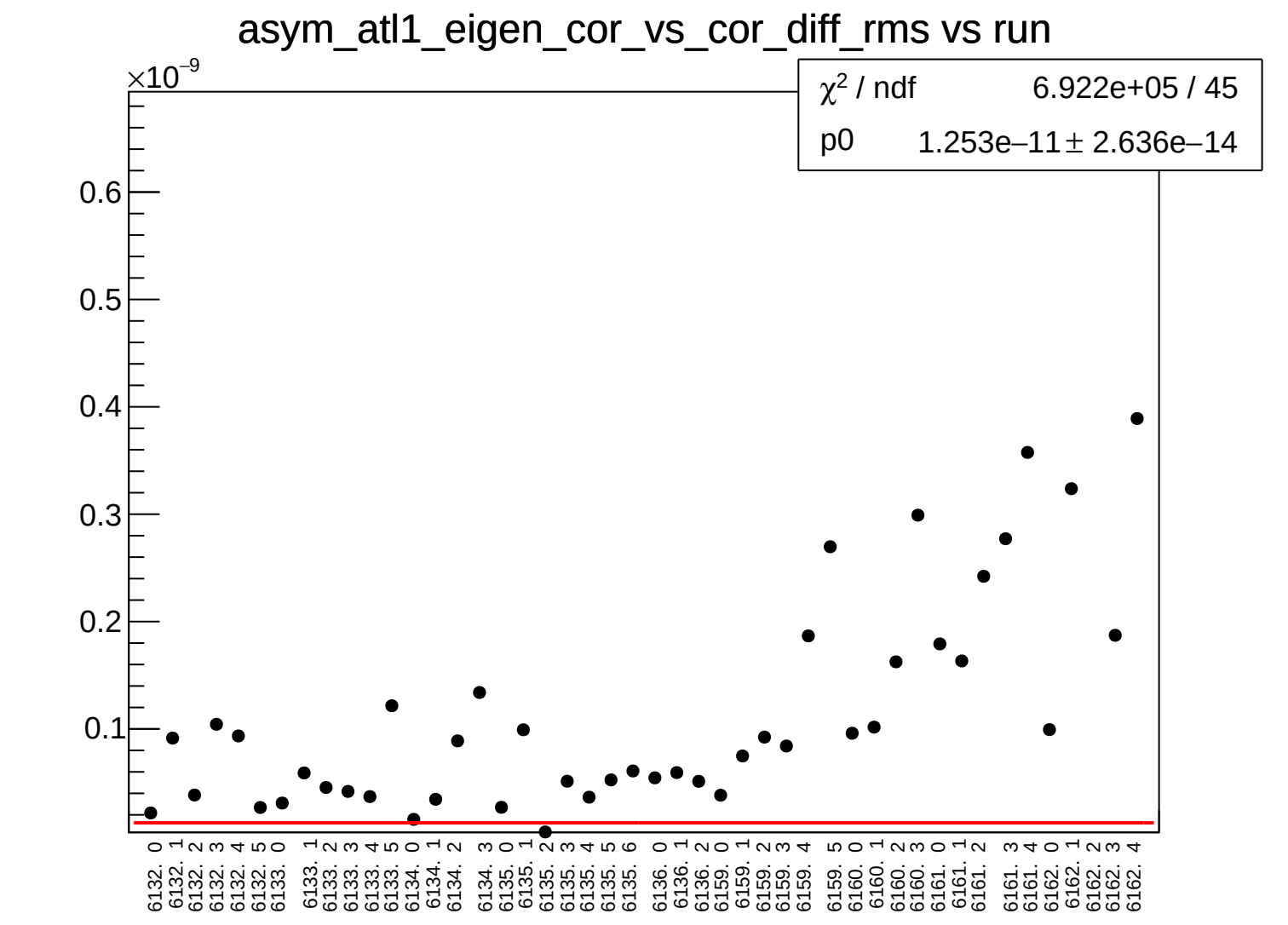

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.98 / 45
p0 0.1022 ± 0.1305
pull
Entries 46
Mean 53.57
Std Dev 0

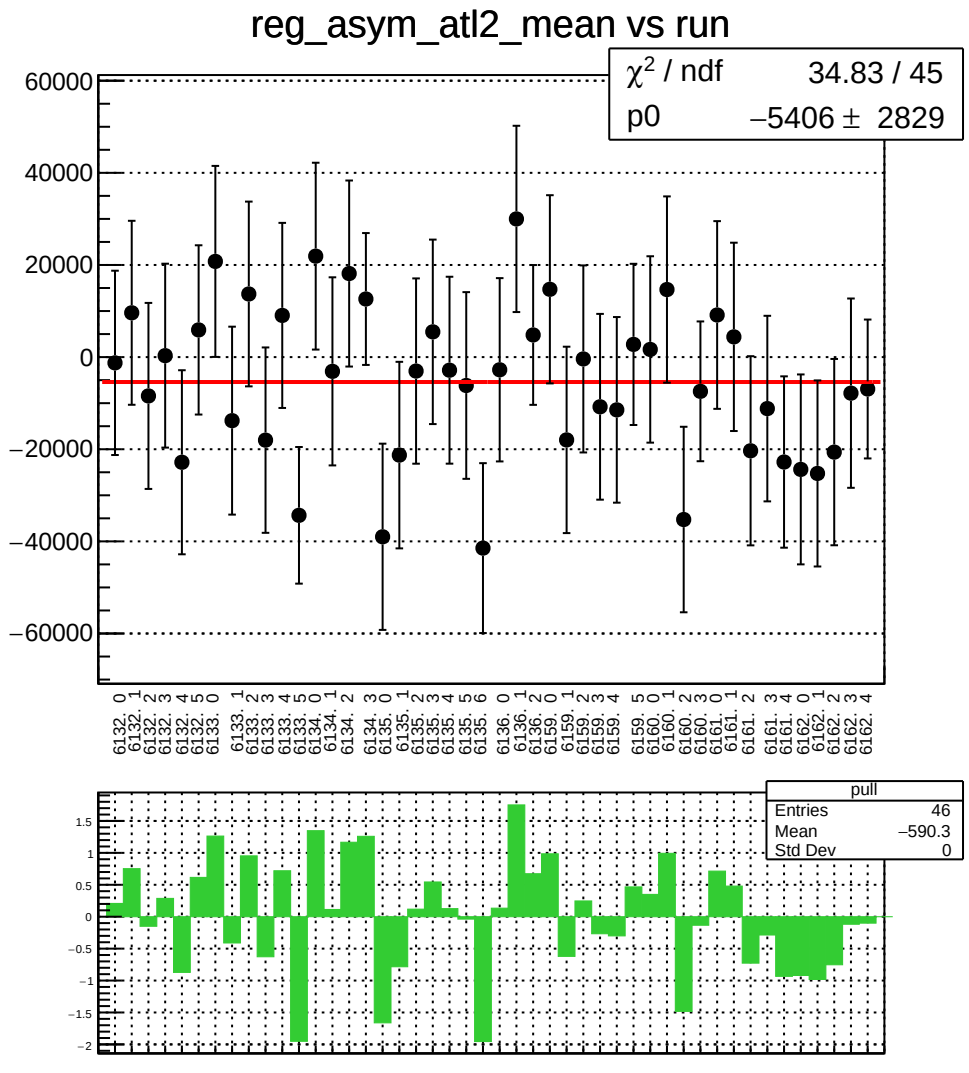

pull1D
Entries 46
Mean 0.04575
Std Dev 0.9656

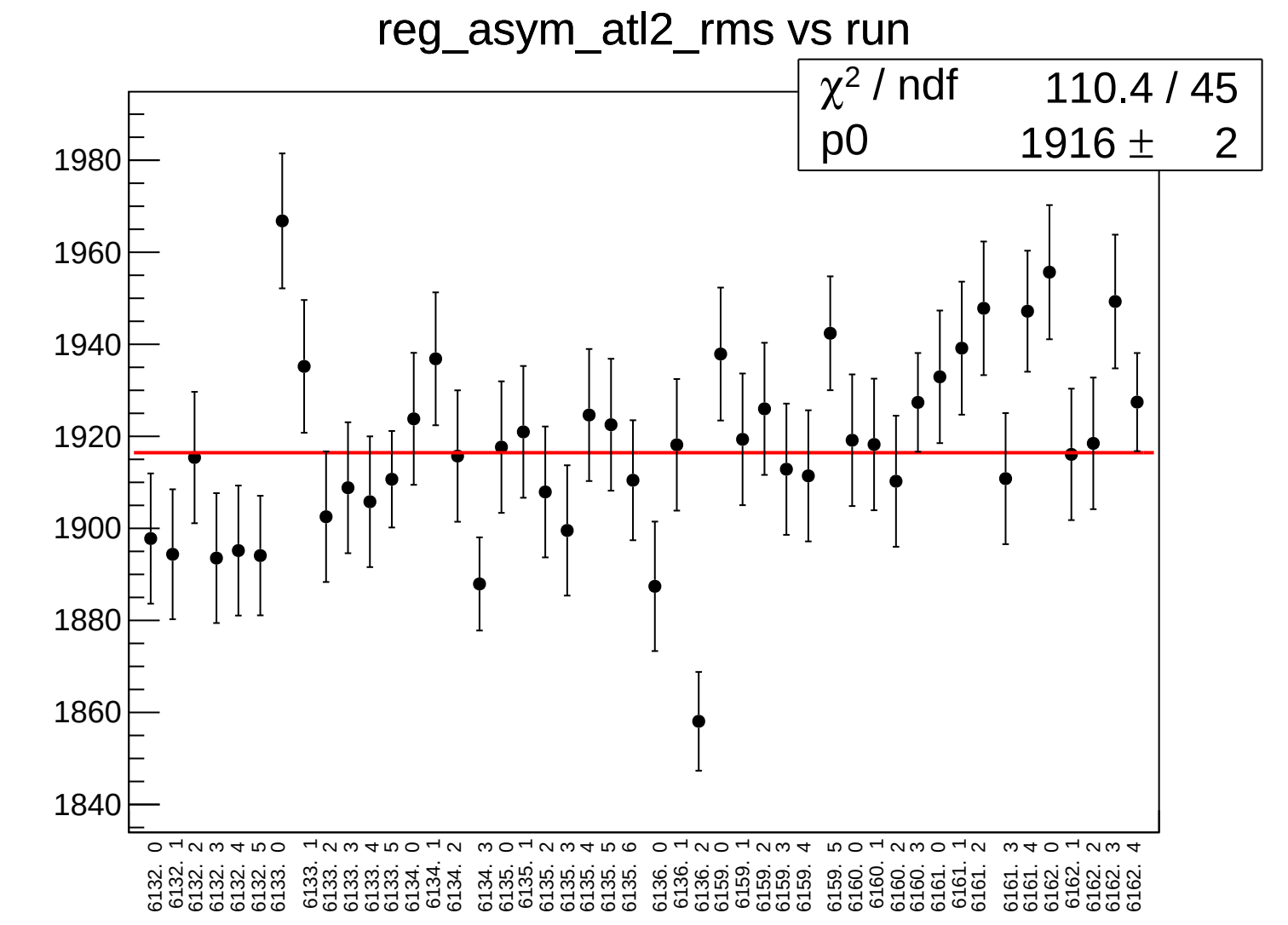

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.407e+05 / 45
p0 81.4 ± 0.09231
180
160
140
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

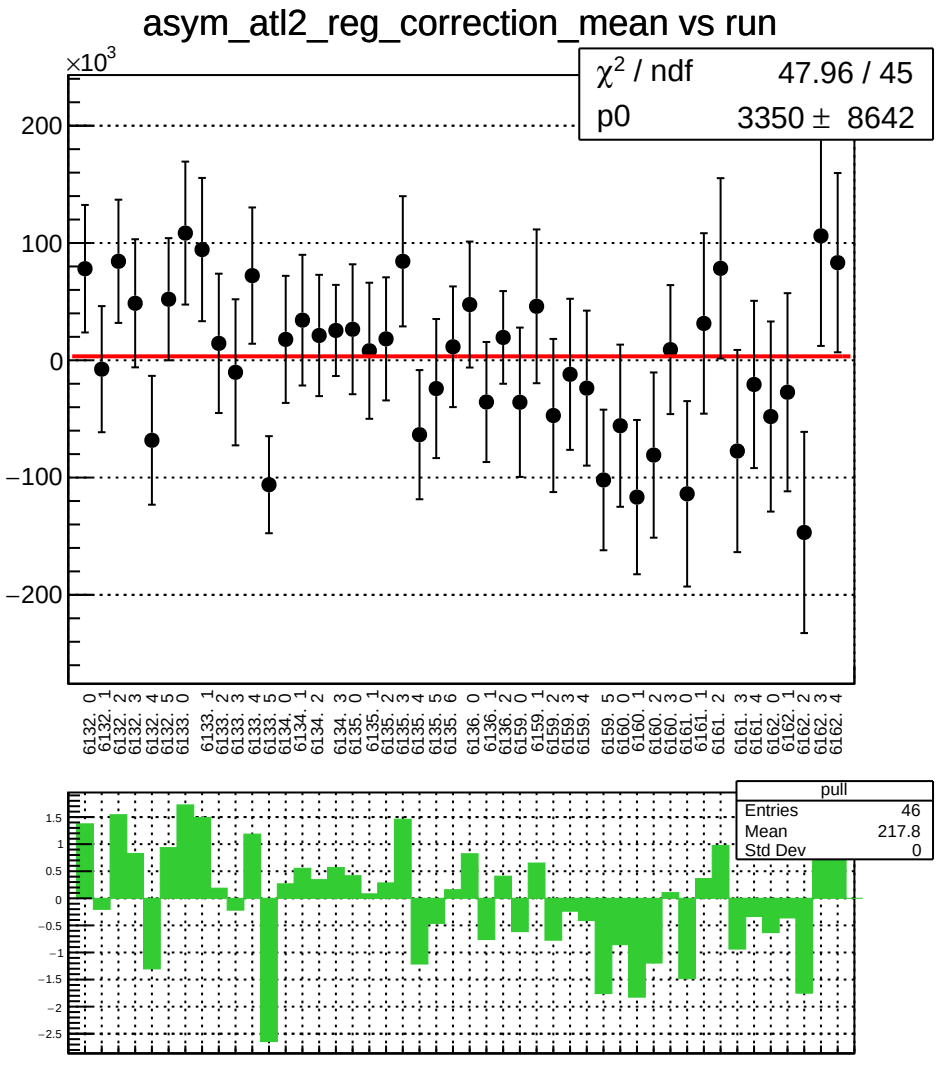

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 49.23 / 45
p0 −4.549e−15 ± 3.728e−14
pull
Entries 46
Mean 30.55
Std Dev 33.88

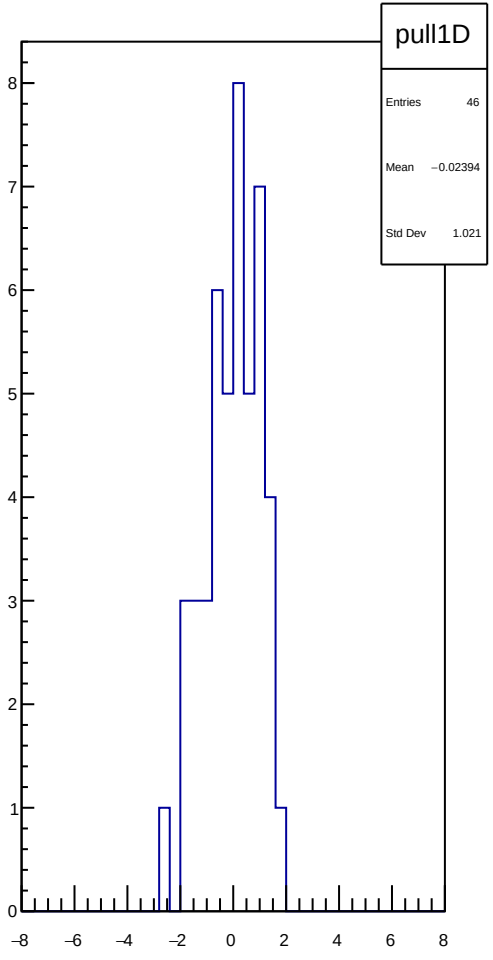

pull1D
Entries 46
Mean 0.02949
Std Dev 1.034

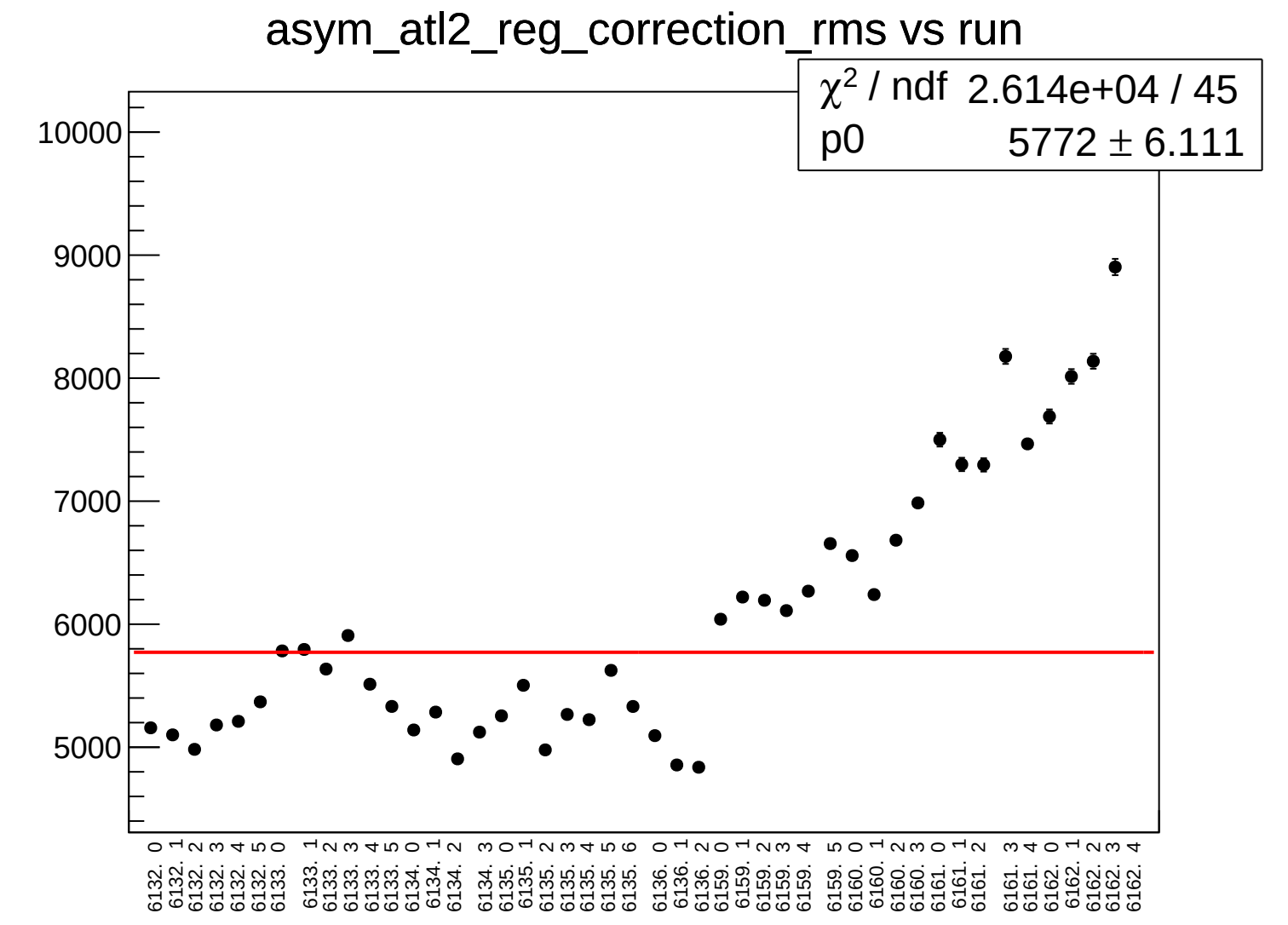

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.922e+05 / 45
p0 1.253e−11 ± 2.636e−14
0.6
0.5
0.4
0.3
0.2
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

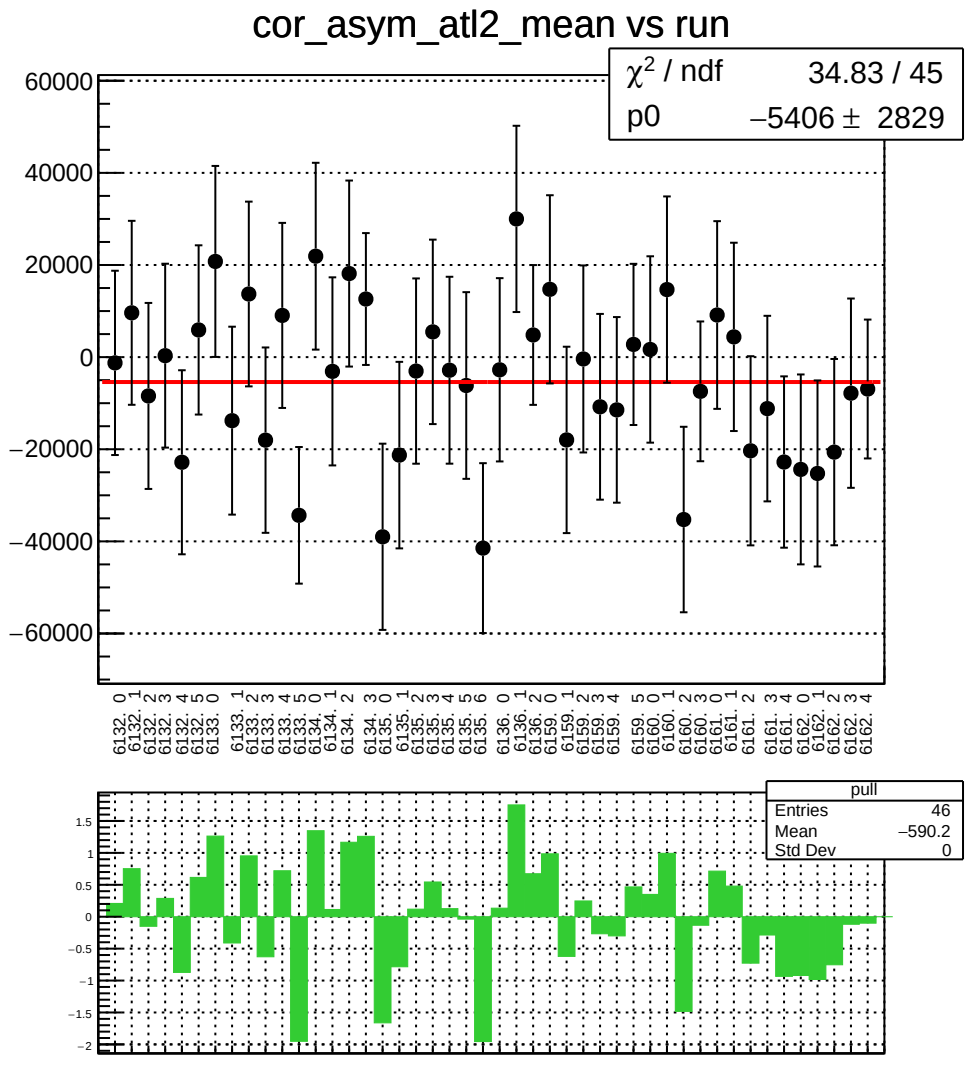

reg_asym_atl2_mean vs run
χ² / ndf 34.83 / 45
p0 −5406 ± 2829
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −590.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.004123
Std Dev 0.8701
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

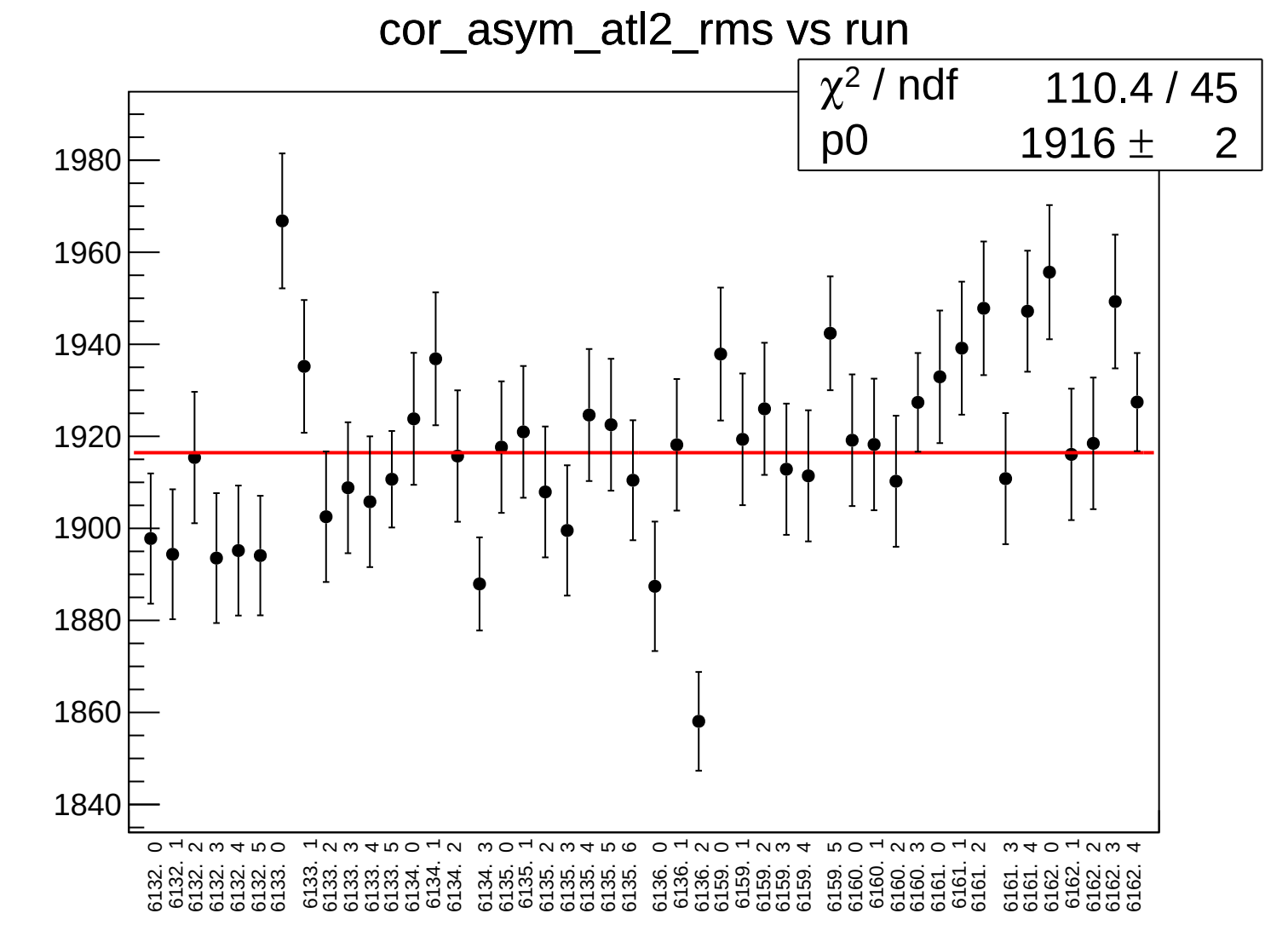

reg_asym_atl2_rms vs run
χ² / ndf 110.4 / 45
p0 1916 ± 2
1980
1960
1940
1920
1900
1880
1860
1840
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 47.96 / 45
p0 3350 ± 8642
200
100
0
−100
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 217.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.02394
Std Dev 1.021
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl2_reg_correction_rms vs run
χ² / ndf 2.614e+04 / 45
p0 5772 ± 6.111
10000
9000
8000
7000
6000
5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_atl2_mean vs run
χ² / ndf 34.83 / 45
p0 −5406 ± 2829
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −590.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.004124
Std Dev 0.8701
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl2_rms vs run
χ² / ndf 110.4 / 45
p0 1916 ± 2
1980
1960
1940
1920
1900
1880
1860
1840
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
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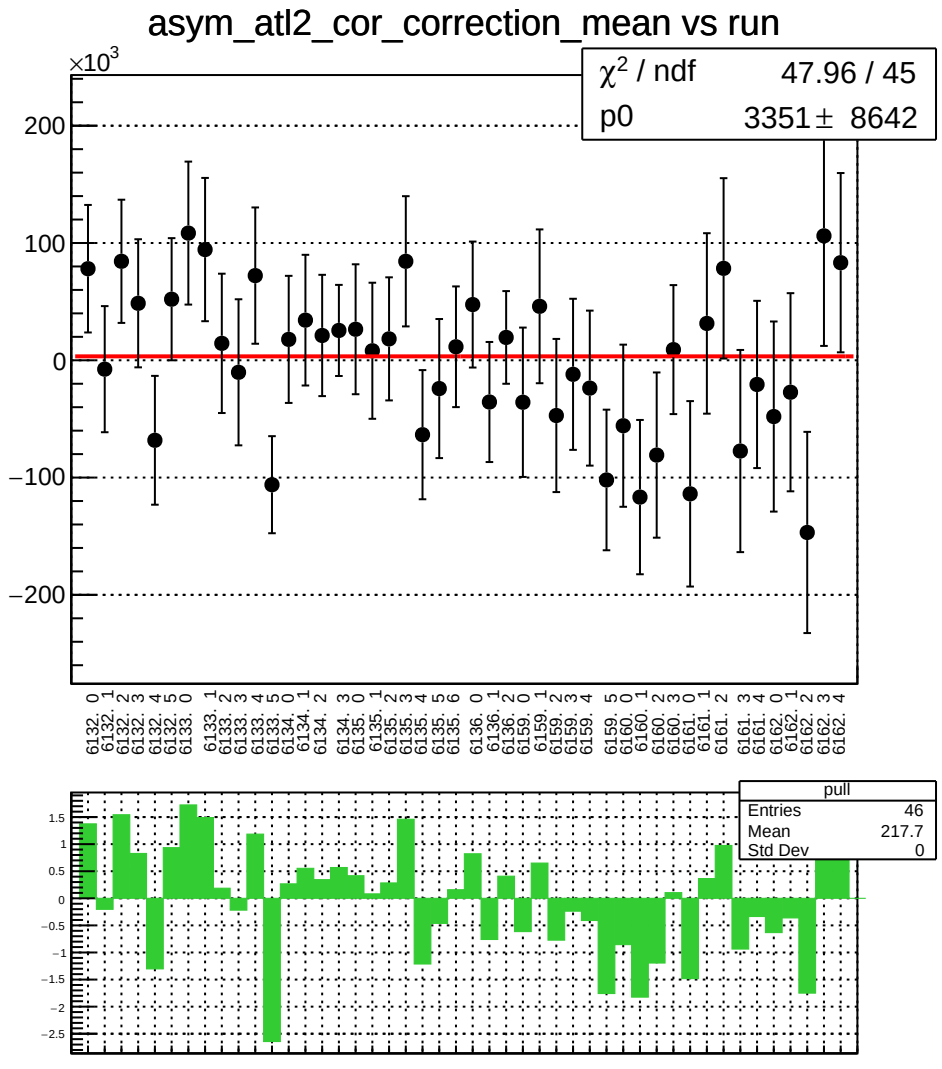
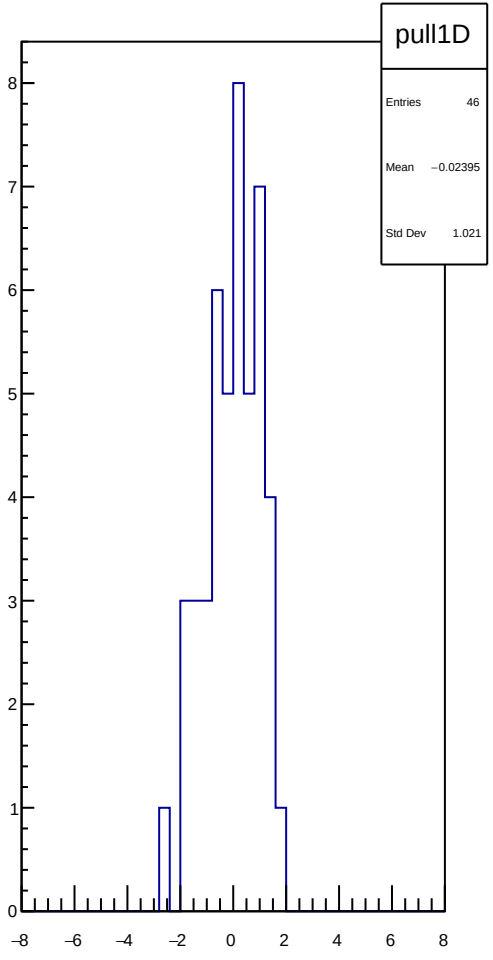
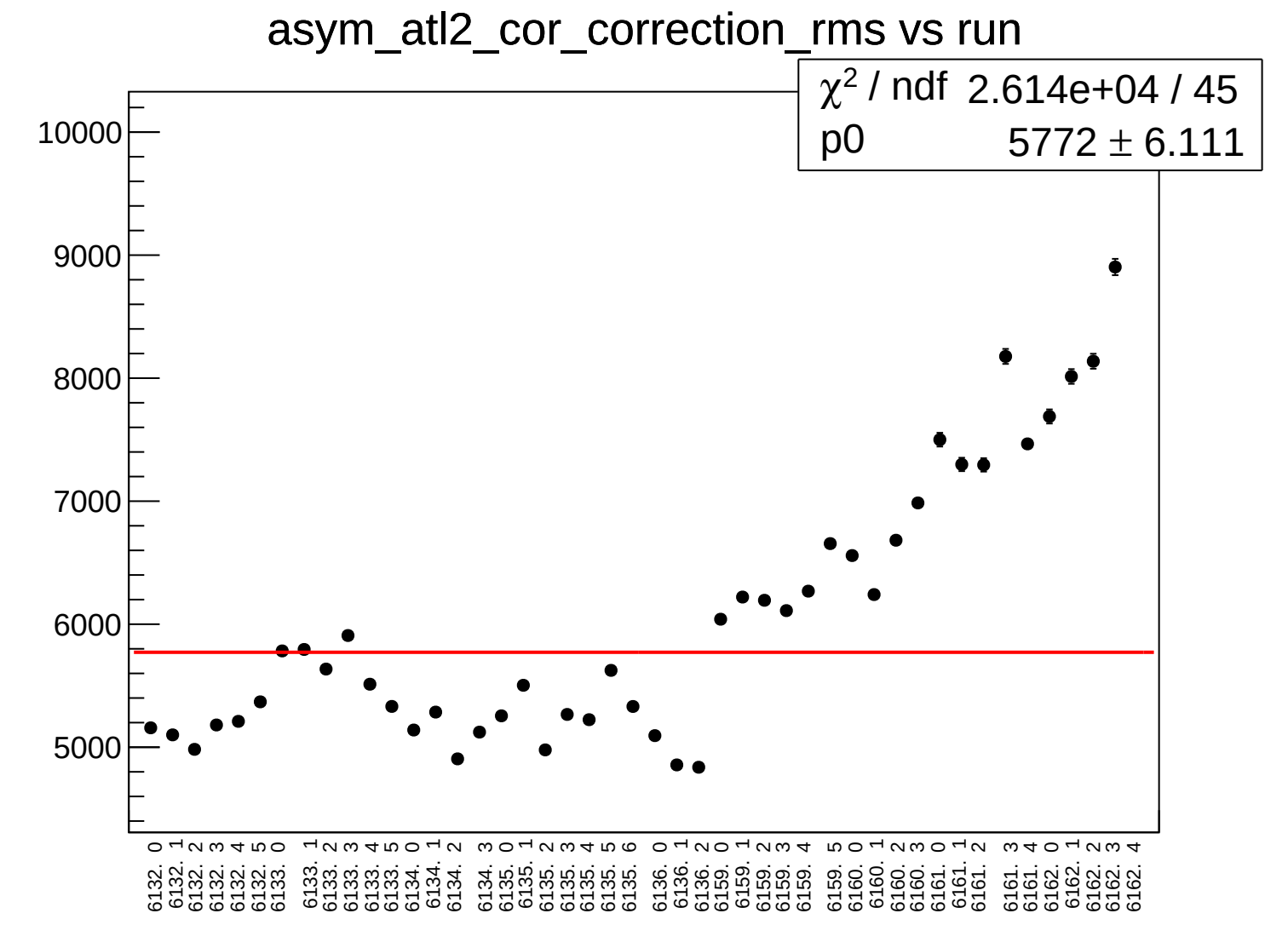
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 47.96 / 45
p0 3351 ± 8642
200
100
0
−100
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 217.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.02395
Std Dev 1.021
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl2_cor_correction_rms vs run
χ² / ndf 2.614e+04 / 45
p0 5772 ± 6.111
10000
9000
8000
7000
6000
5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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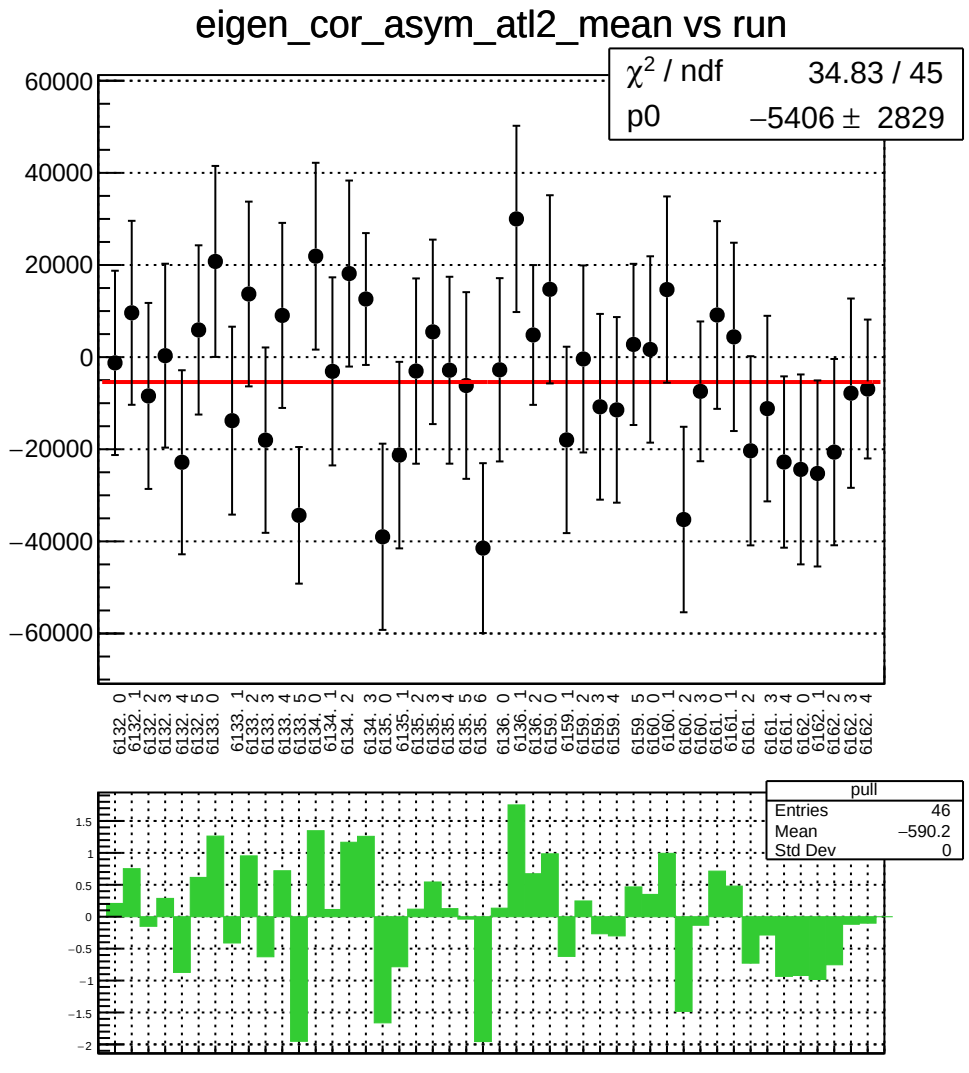
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_atl2_mean vs run
χ² / ndf 34.83 / 45
p0 −5406 ± 2829
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6159. 1
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6159. 4
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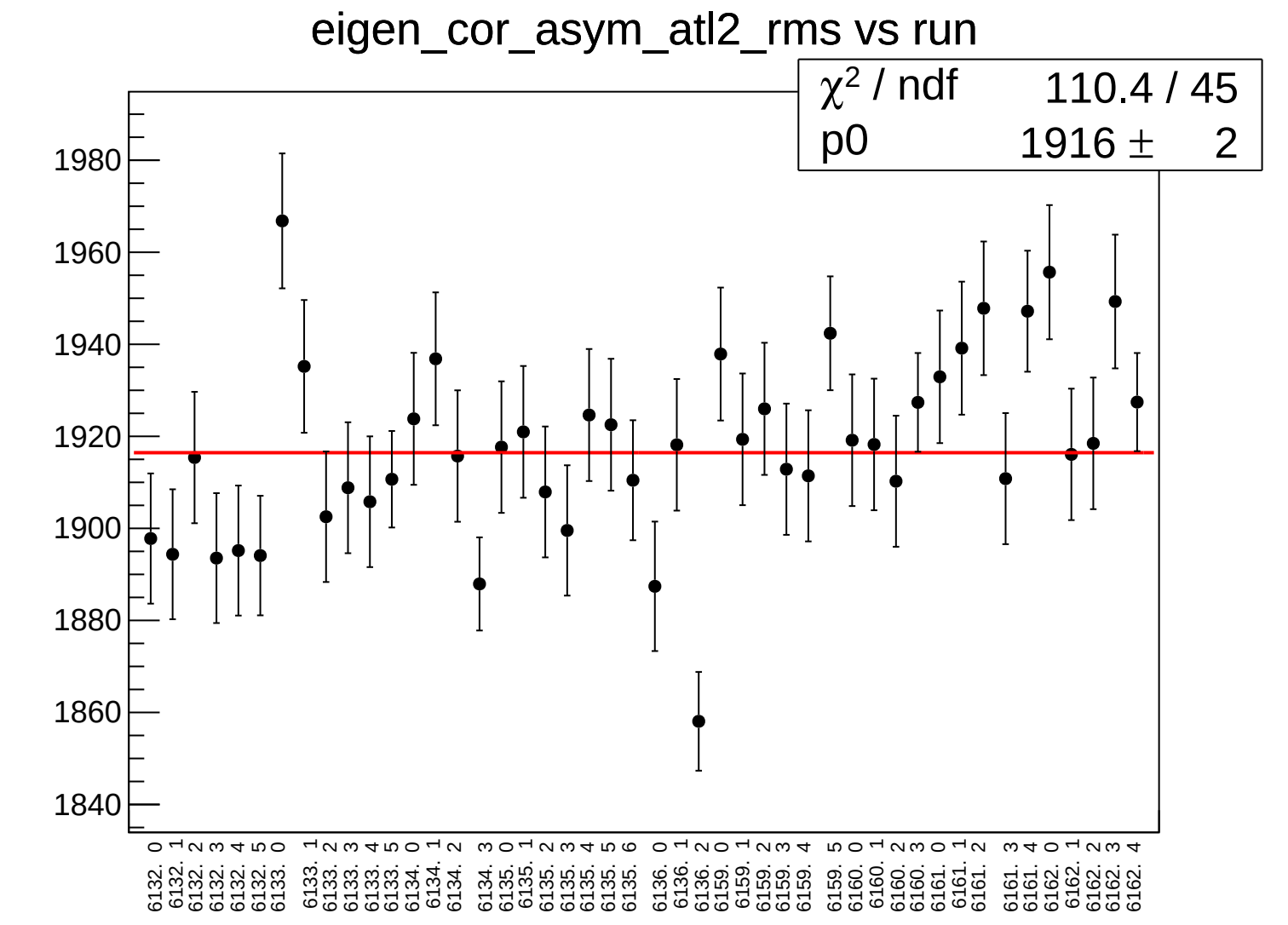
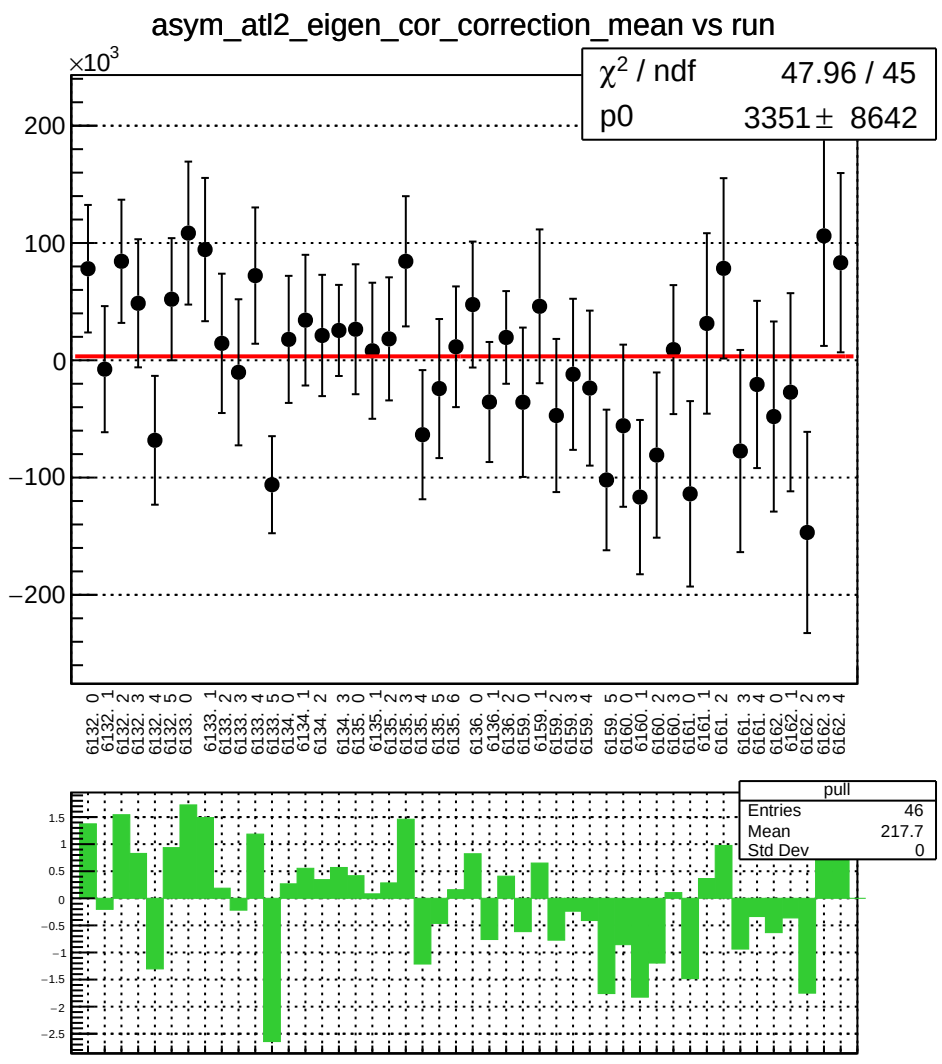
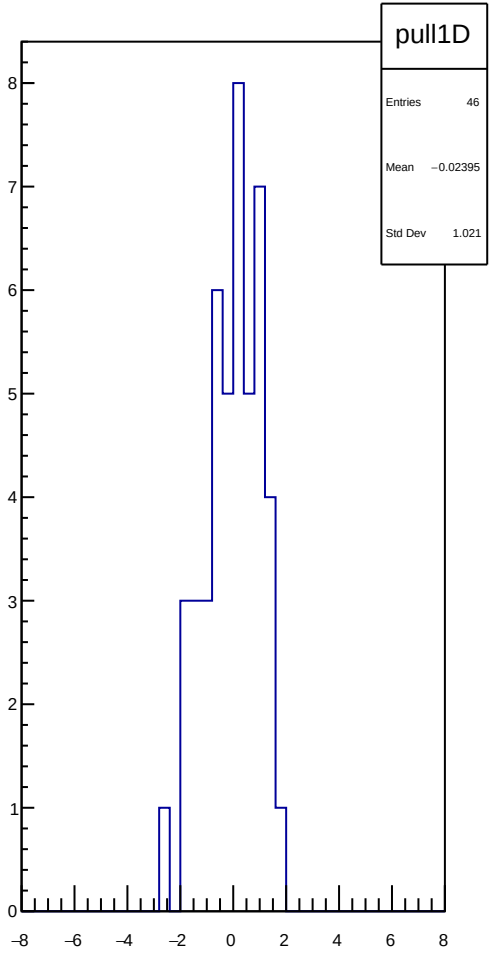
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −590.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.004124
Std Dev 0.8701
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl2_rms vs run
χ² / ndf 110.4 / 45
p0 1916 ± 2
1980
1960
1940
1920
1900
1880
1860
1840
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 47.96 / 45
p0 3351 ± 8642
200
100
0
−100
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 217.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.02395
Std Dev 1.021
8
7
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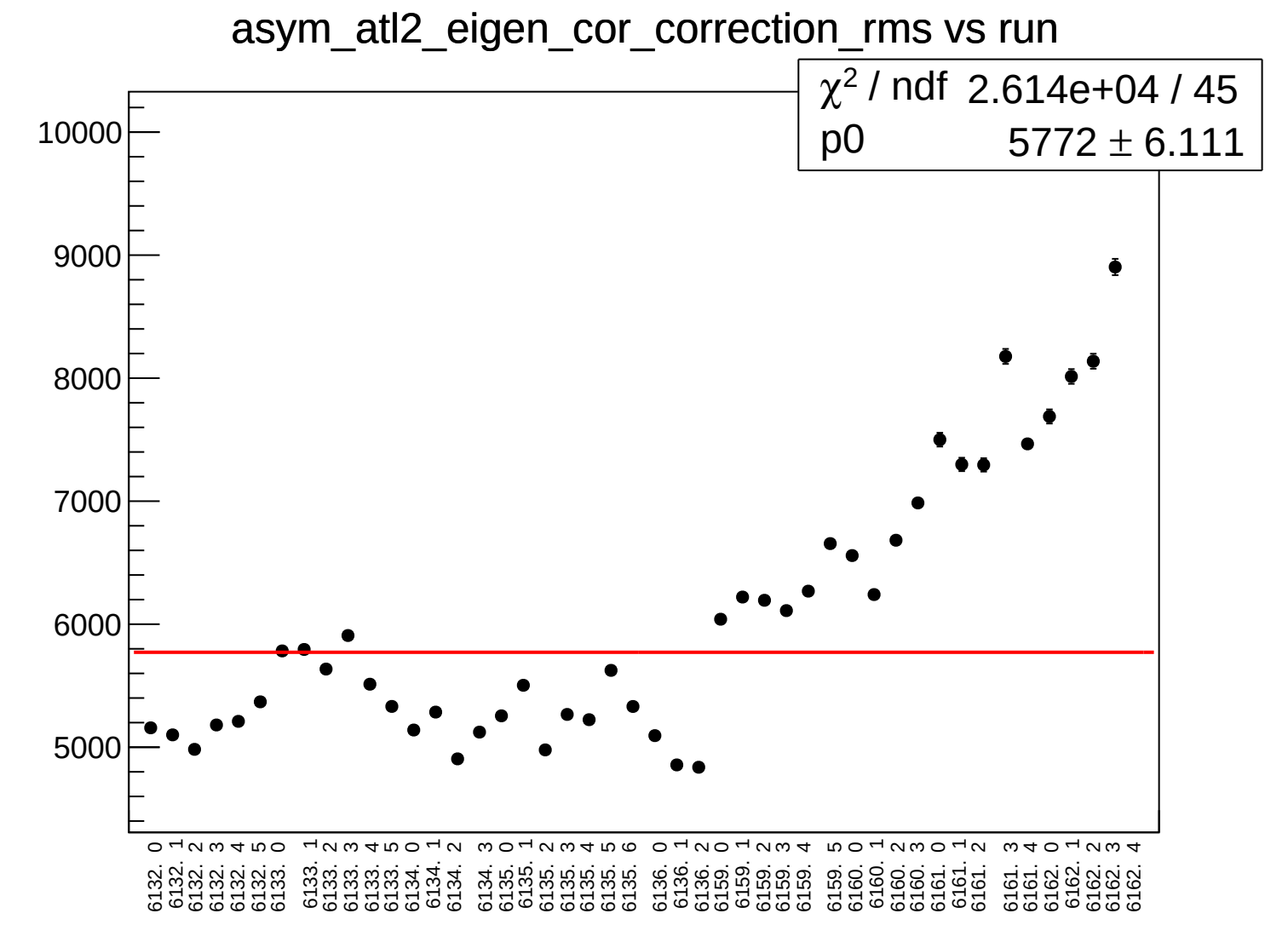
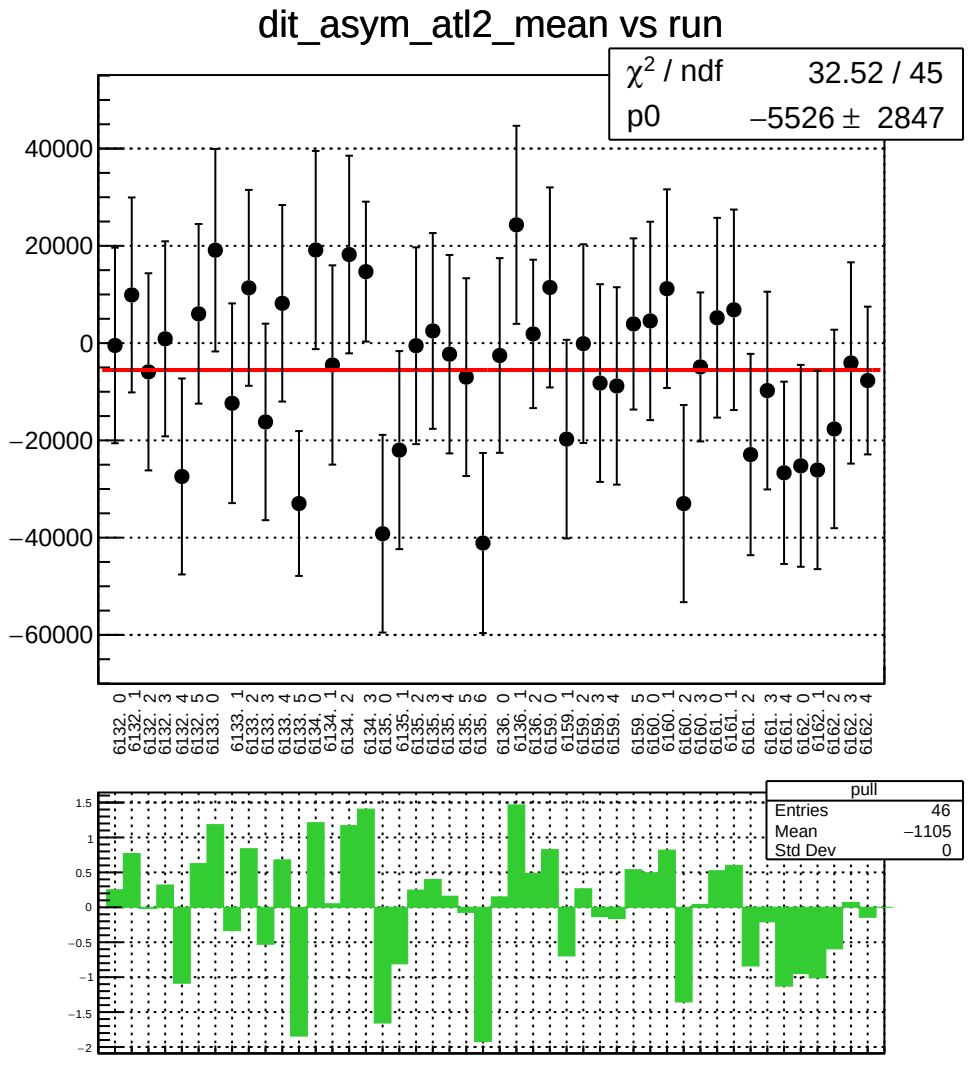
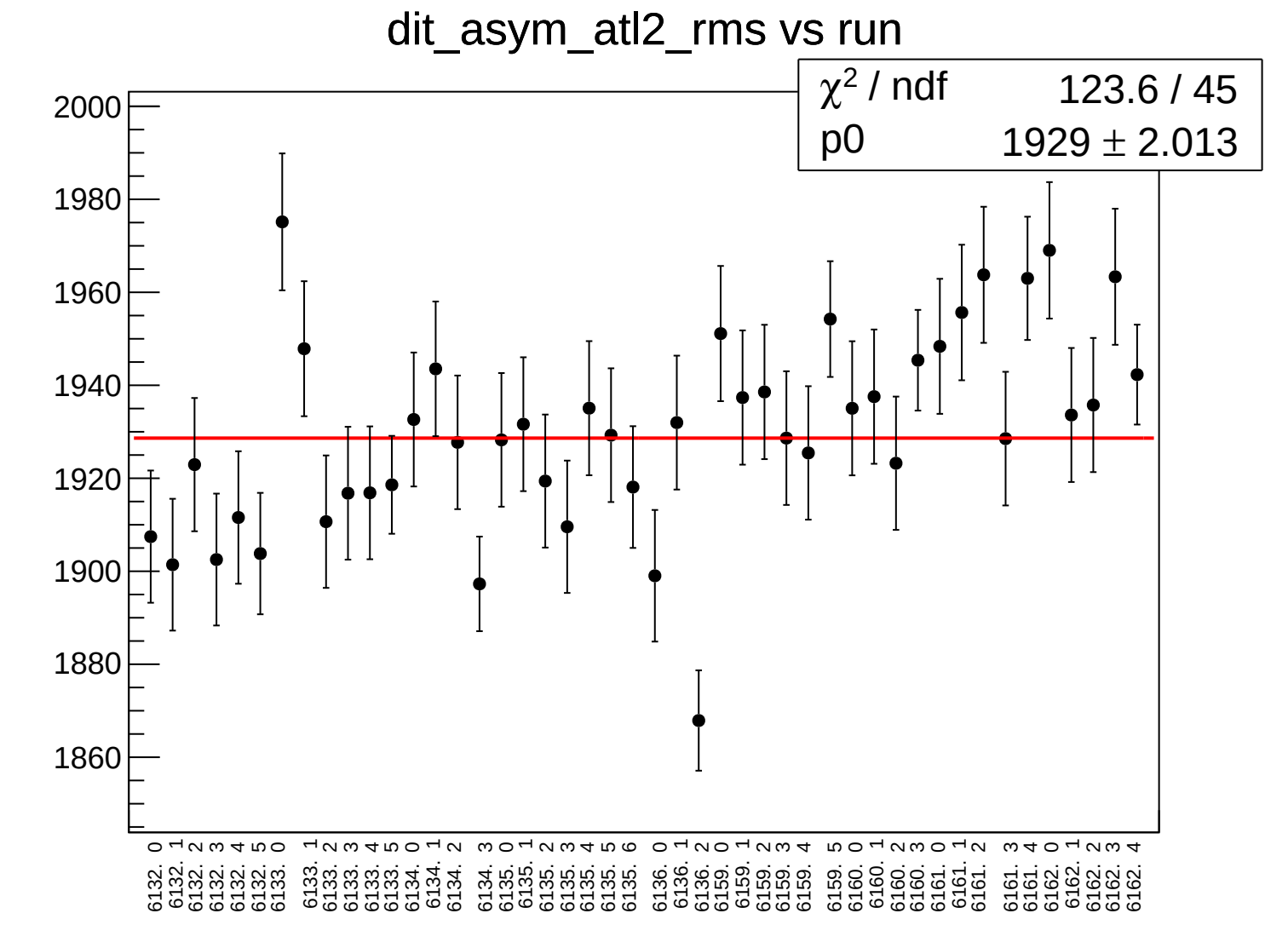
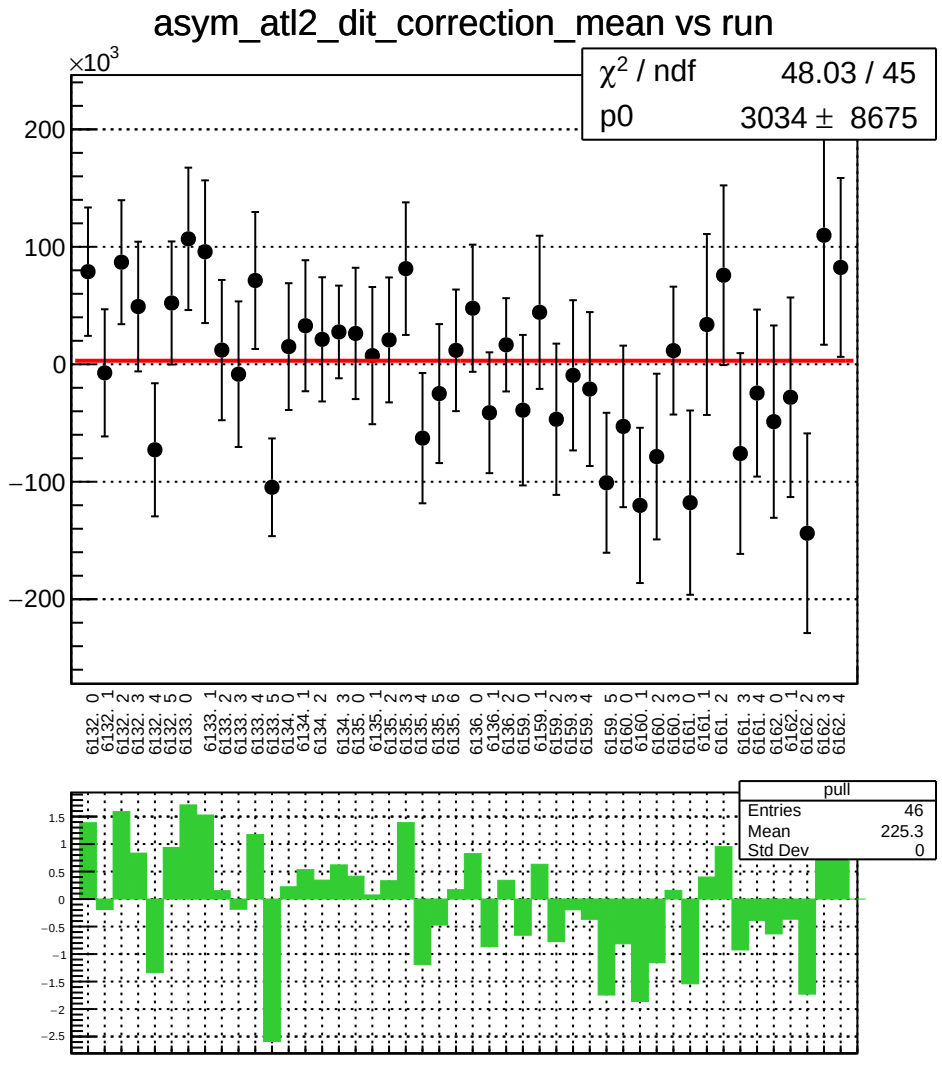
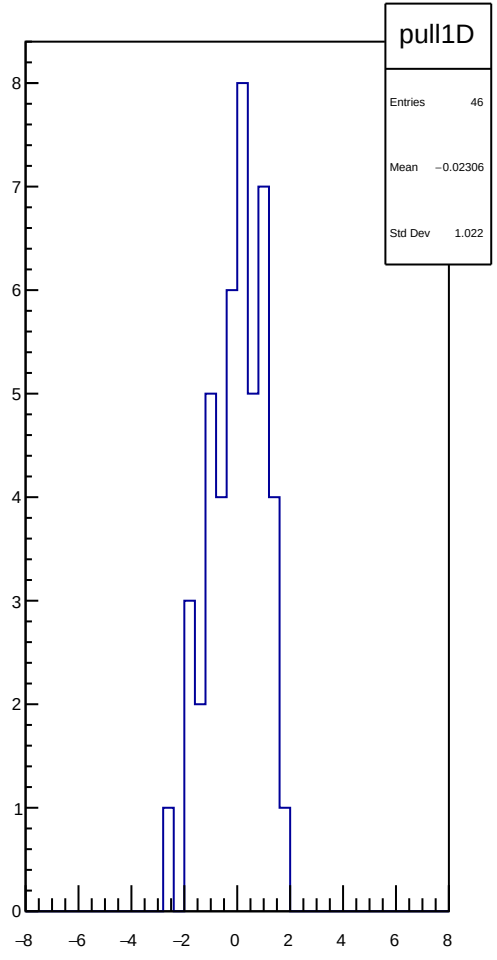
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

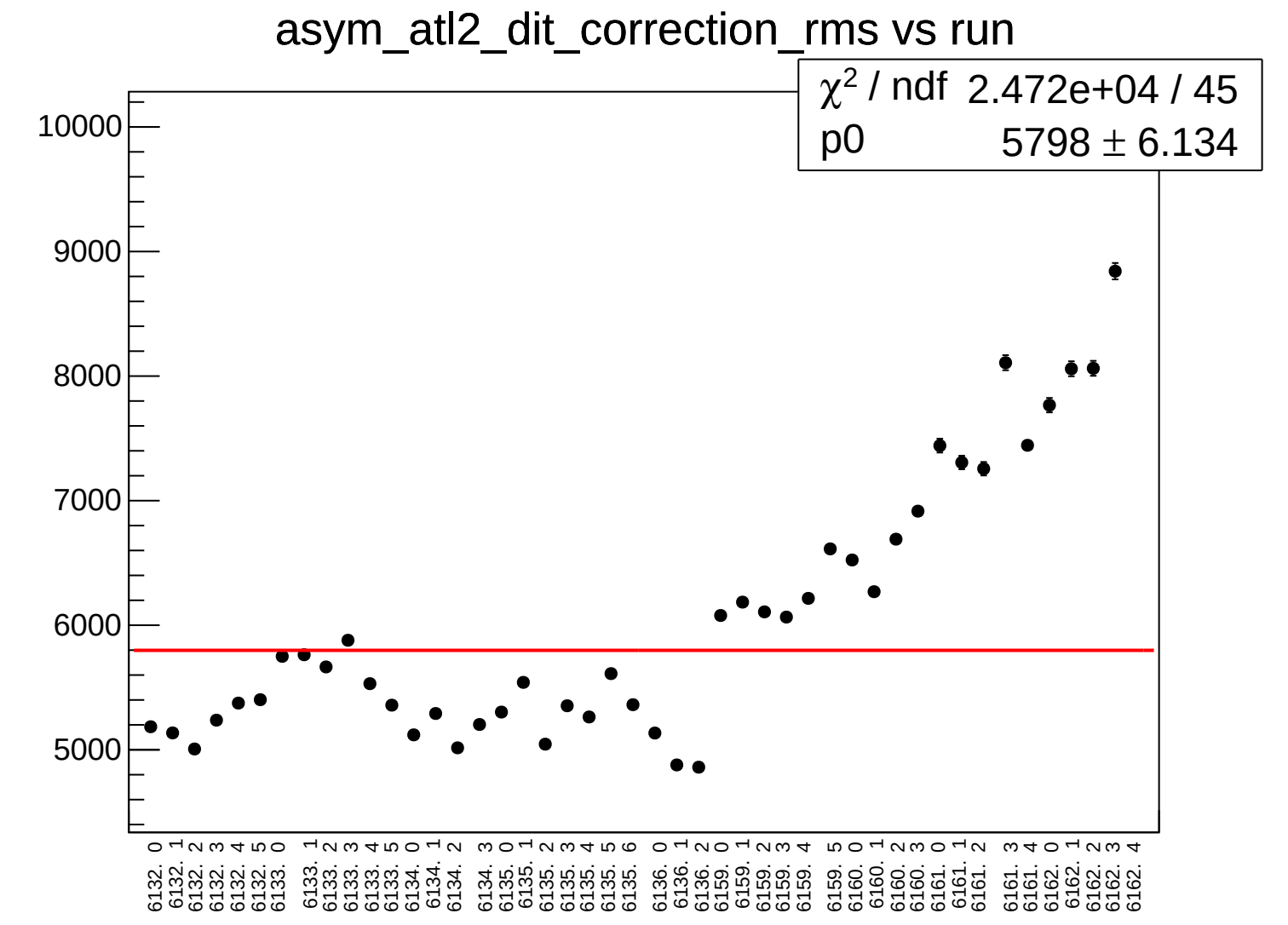

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 2.614e+04 / 45
p0 5772 ± 6.111
10000
9000
8000
7000
6000
5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

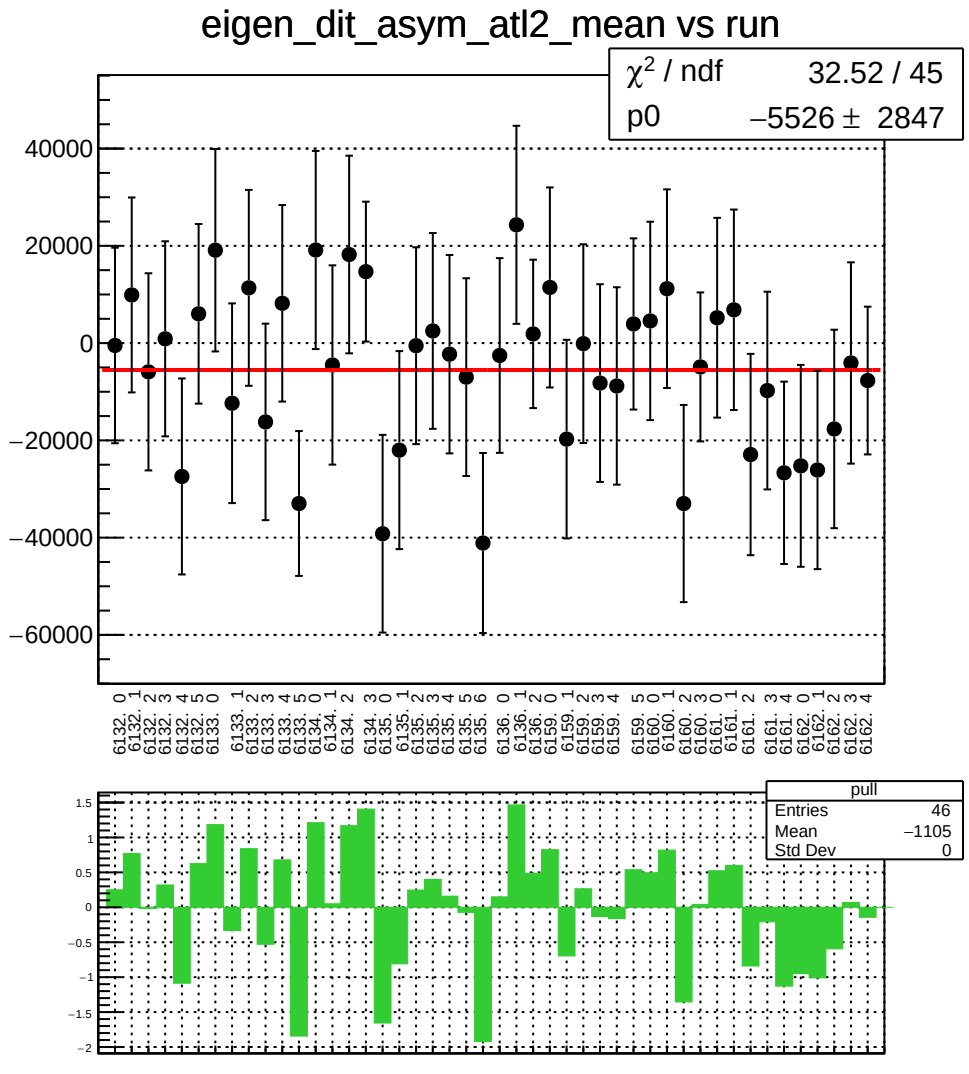

dit_asym_atl2_mean vs run
χ² / ndf 32.52 / 45
p0 −5526 ± 2847
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1105
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.002157
Std Dev 0.8407
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

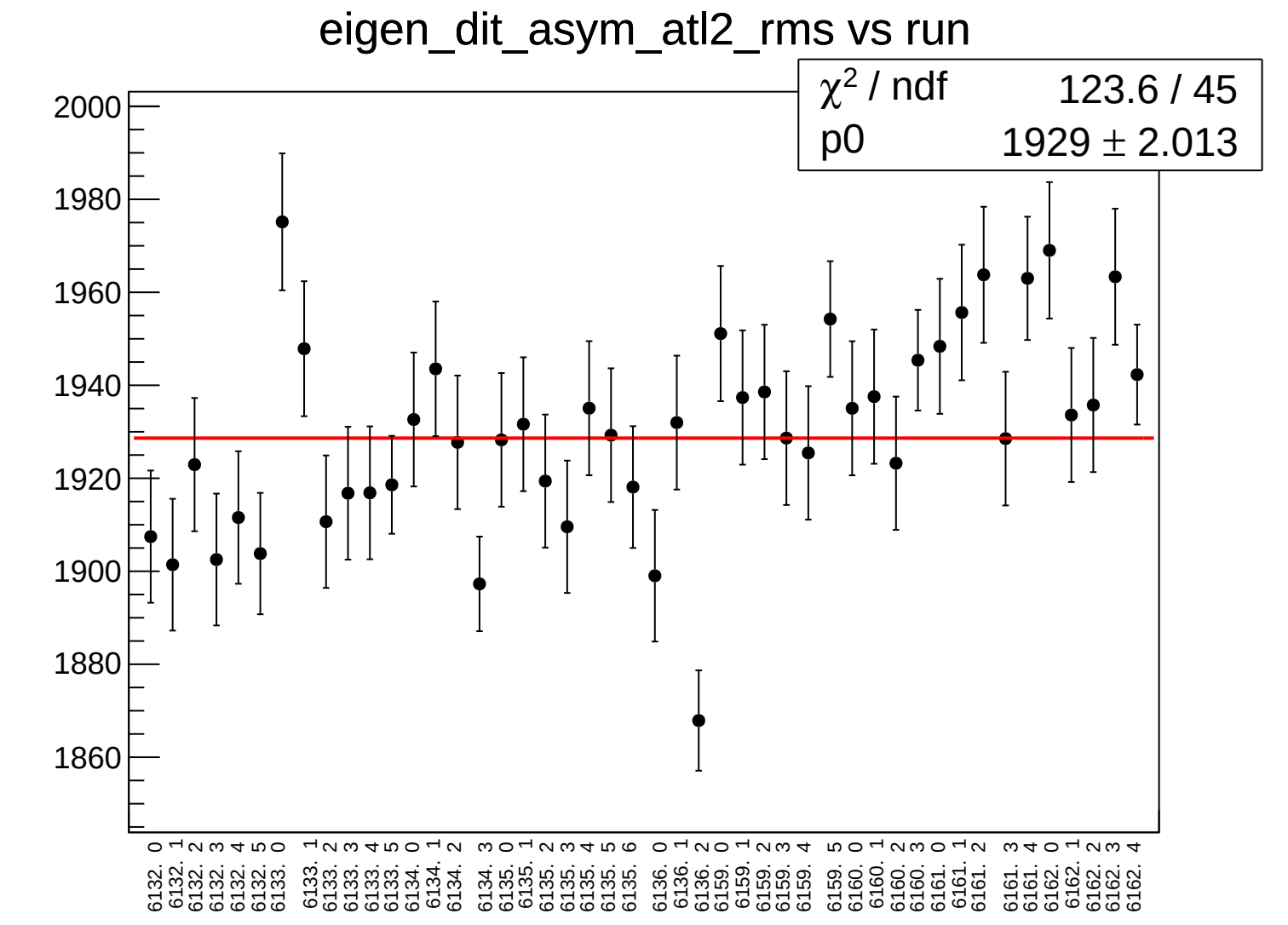

dit_asym_atl2_rms vs run
χ² / ndf 123.6 / 45
p0 1929 ± 2.013
2000
1980
1960
1940
1920
1900
1880
1860
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

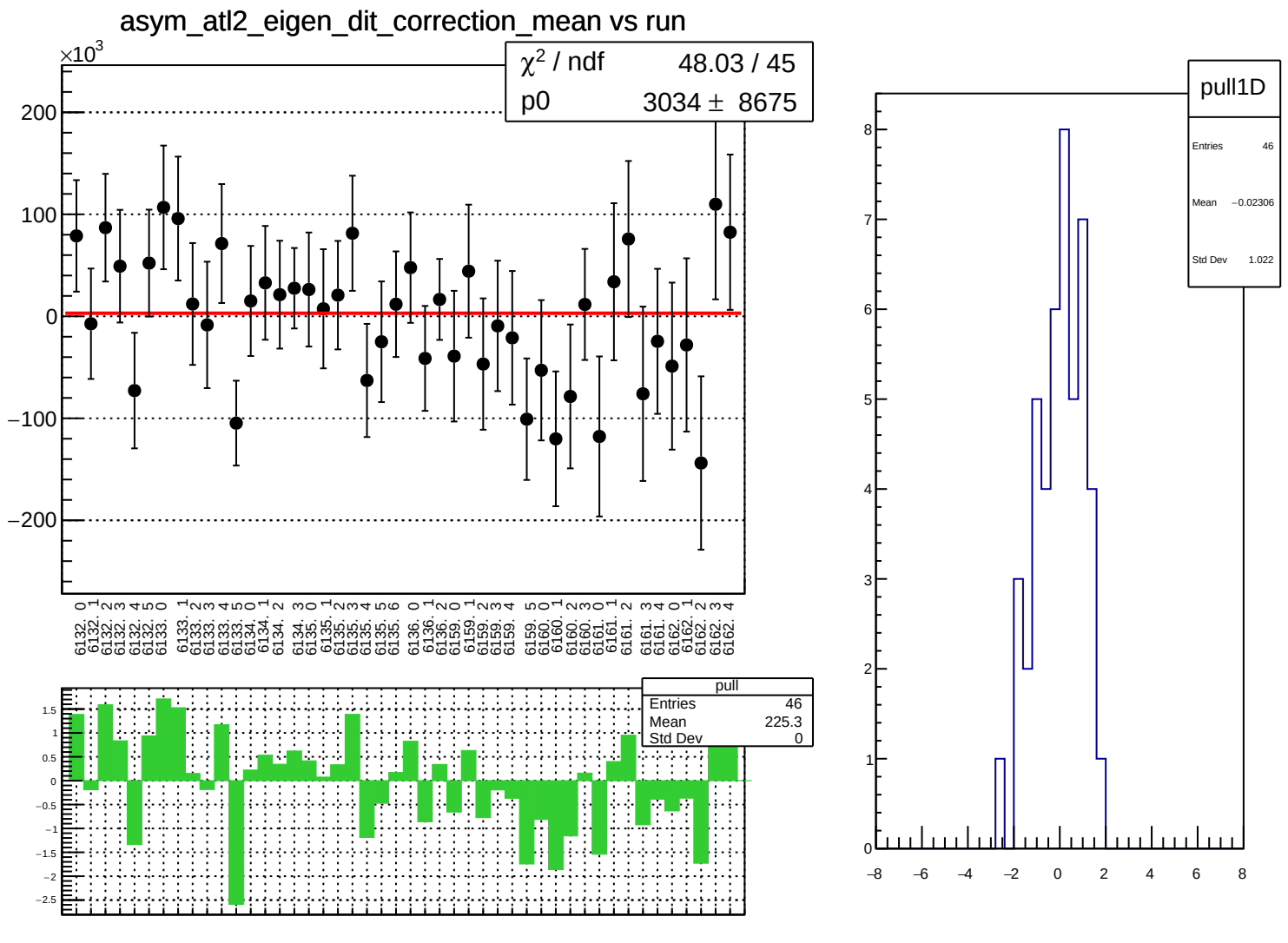

asym_atl2_dit_correction_mean vs run
×10^3
χ^2 / ndf 48.03 / 45
p0 3034 ± 8675
200
100
0
−100
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 225.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

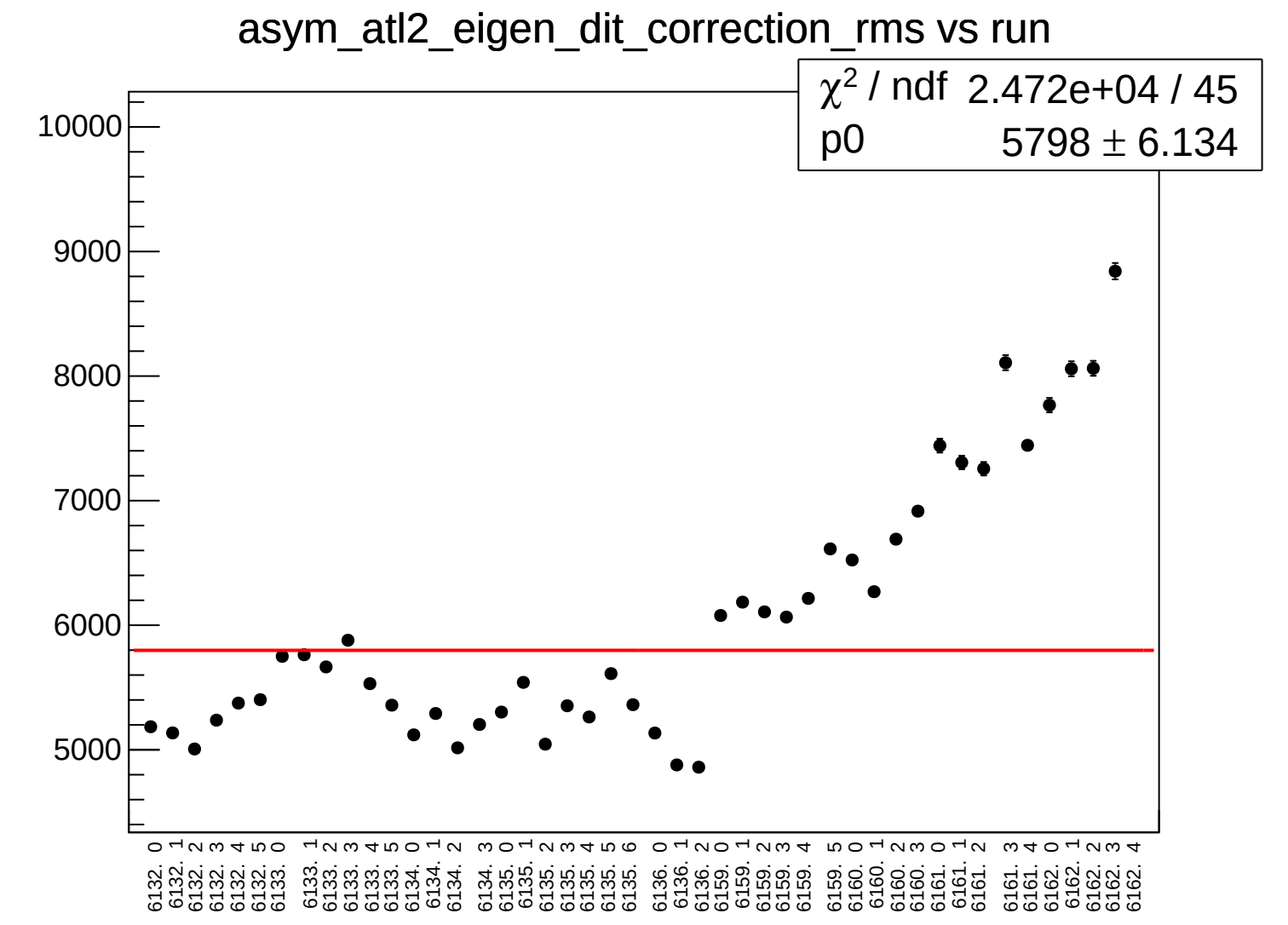

pull1D
Entries 46
Mean −0.02306
Std Dev 1.022
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

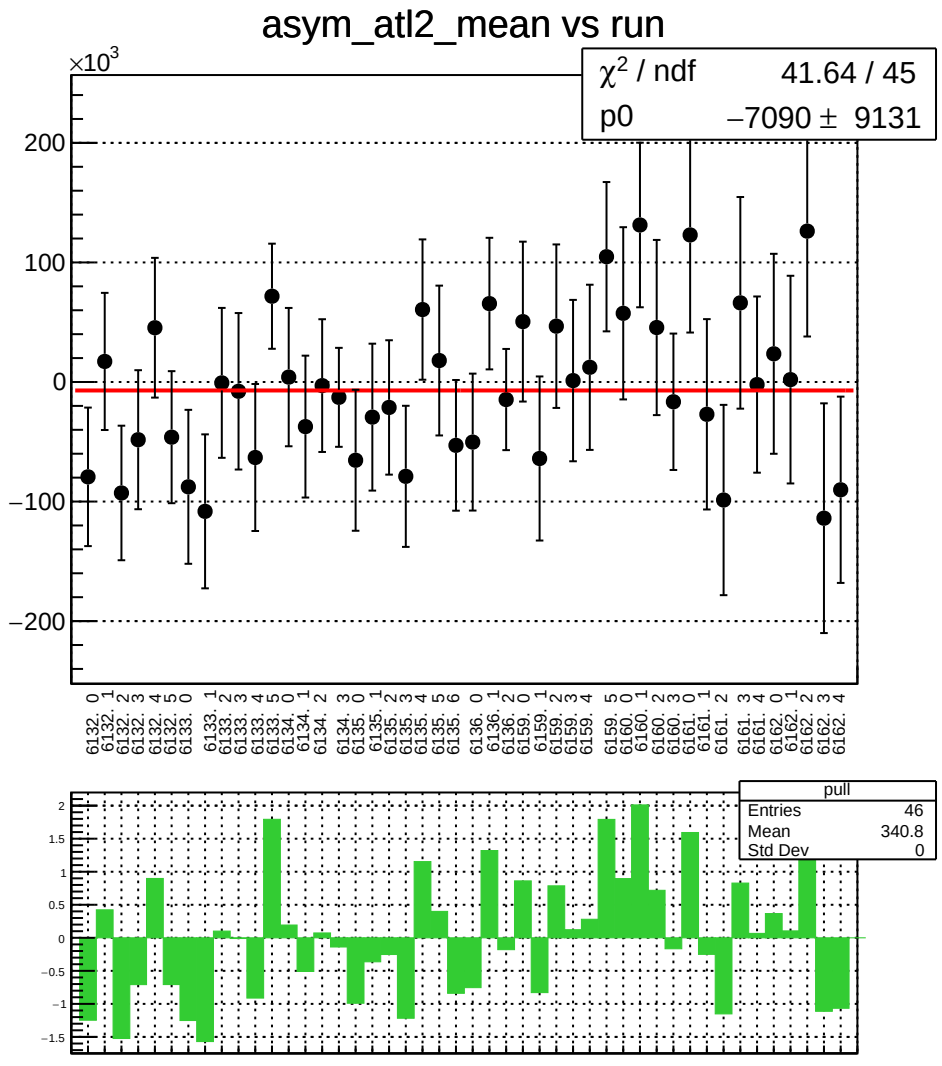

asym_atl2_dit_correction_rms vs run
χ² / ndf 2.472e+04 / 45
p0 5798 ± 6.134
10000
9000
8000
7000
6000
5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

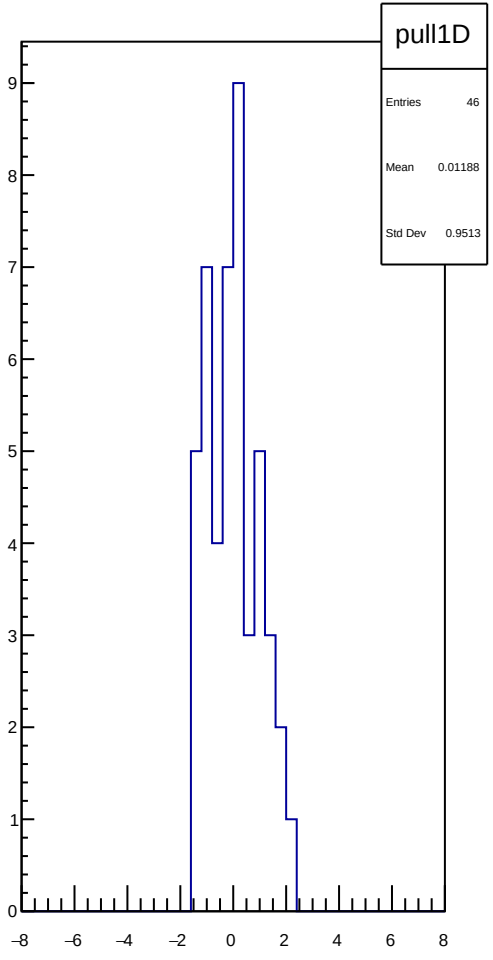

eigen_dit_asym_atl2_mean vs run
χ² / ndf 32.52 / 45
p0 −5526 ± 2847
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1105
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.002157
Std Dev 0.8407
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

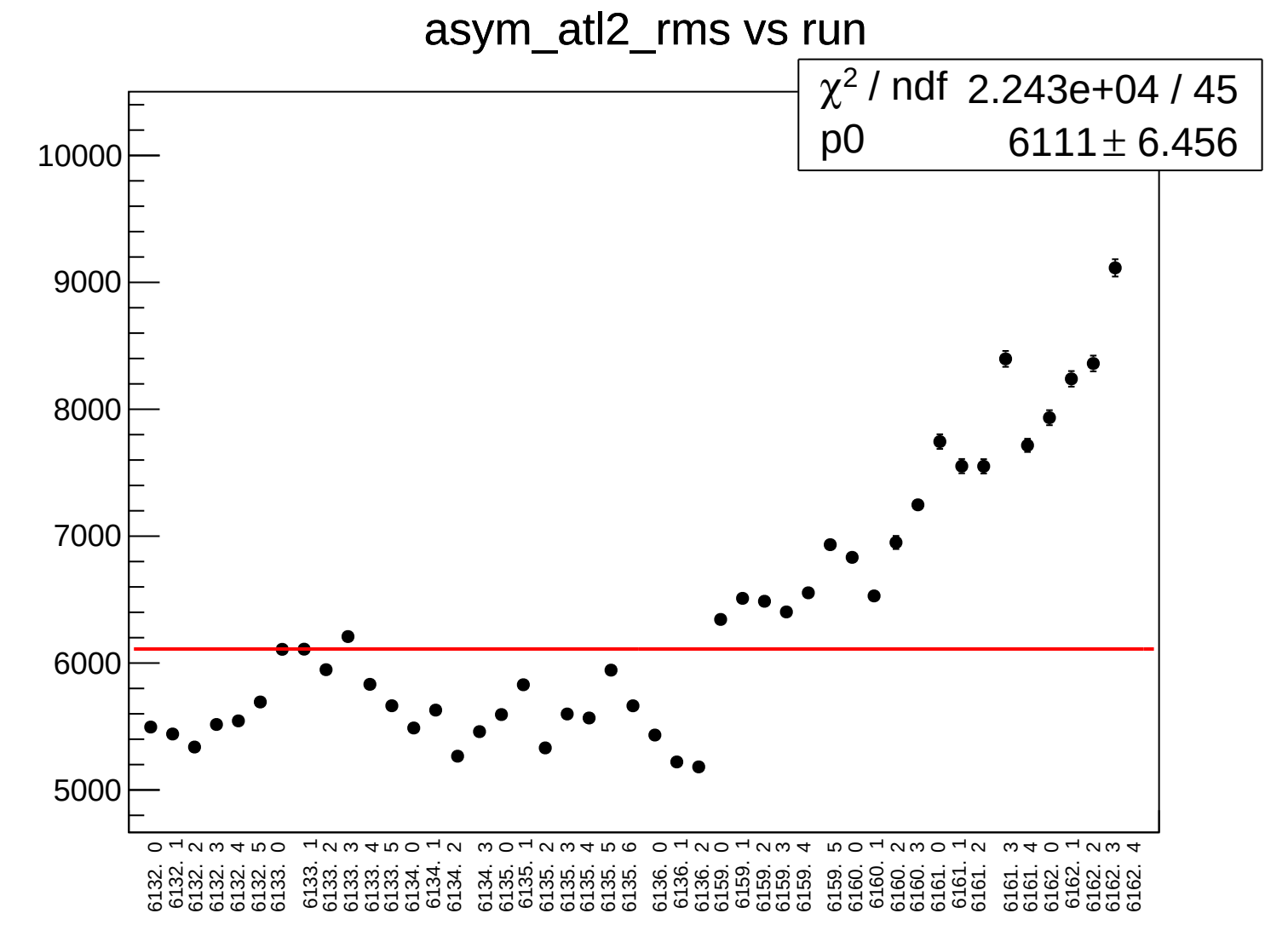

eigen_dit_asym_atl2_rms vs run
χ² / ndf 123.6 / 45
p0 1929 ± 2.013
2000
1980
1960
1940
1920
1900
1880
1860
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

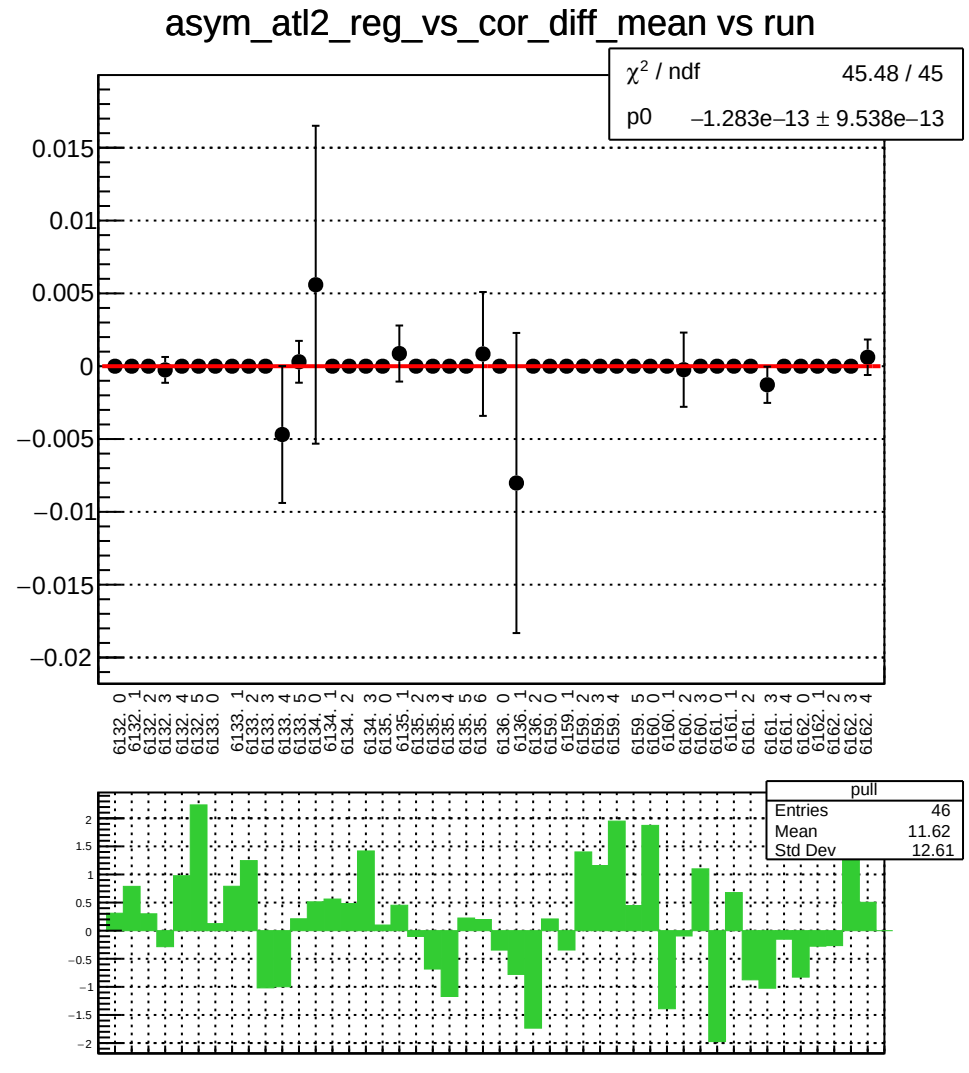

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 48.03 / 45
p0 3034 ± 8675
200
100
0
−100
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 225.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.02306
Std Dev 1.022
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

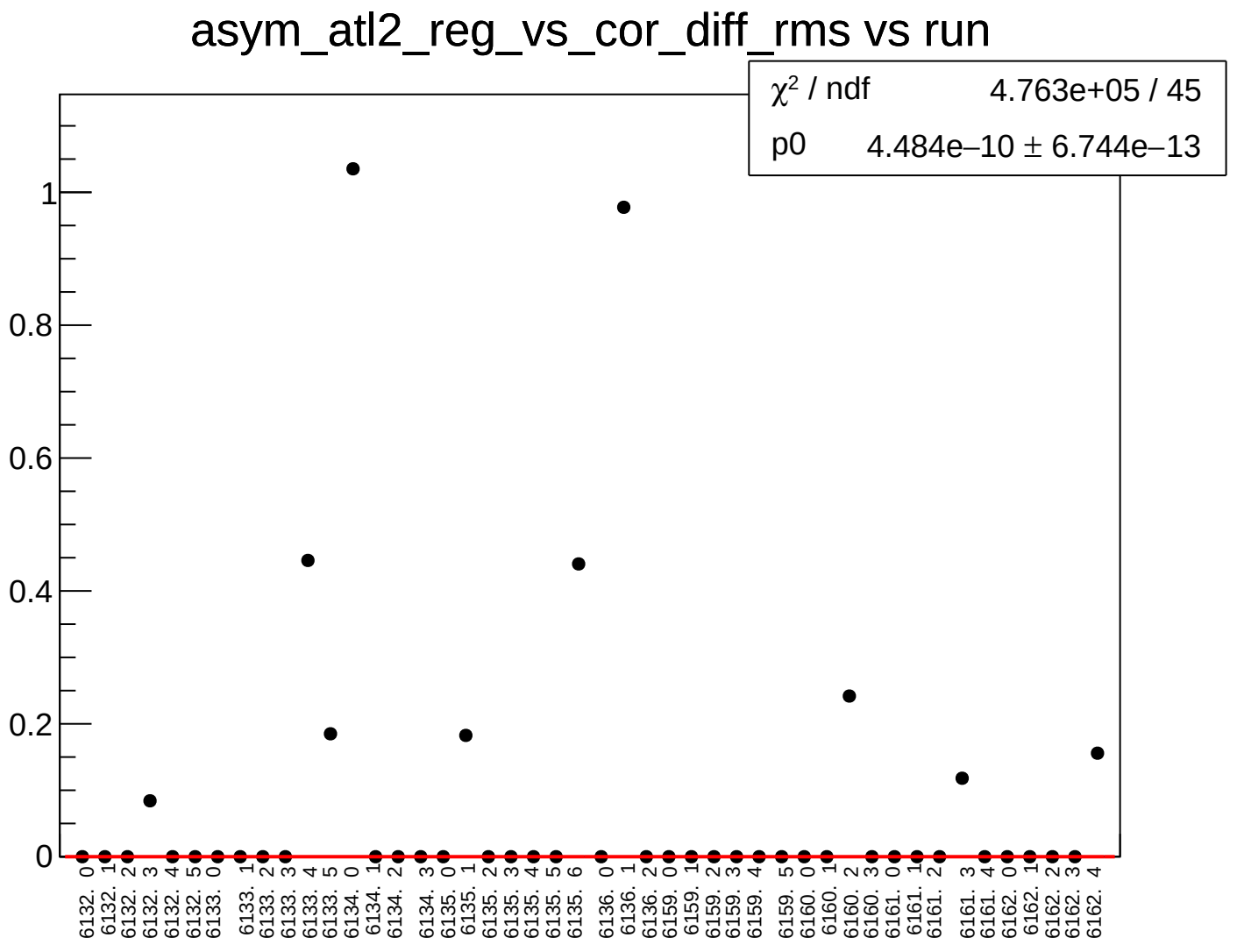

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 2.472e+04 / 45
p0 5798 ± 6.134
10000
9000
8000
7000
6000
5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

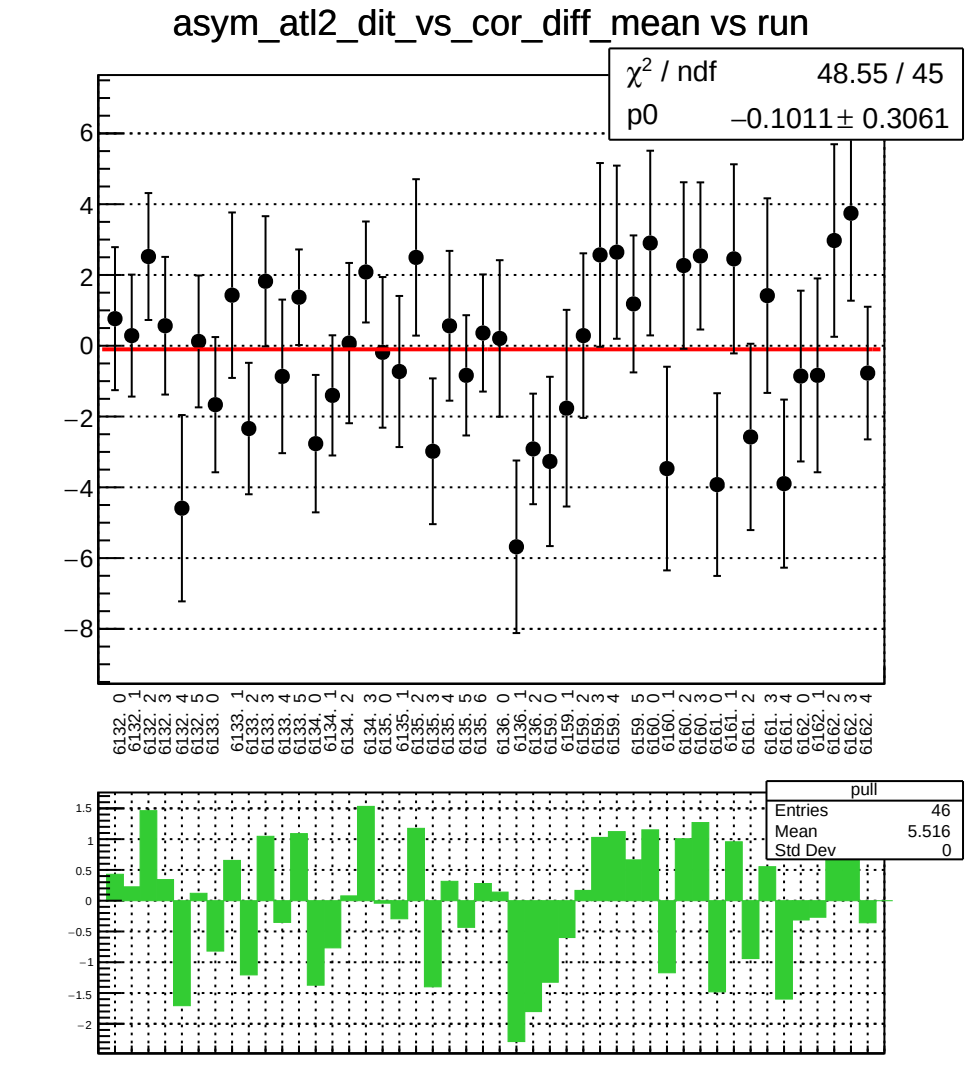

asym_atl2_mean vs run
×10^3
χ² / ndf 41.64 / 45
p0 −7090 ± 9131
200
100
0
−100
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 340.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

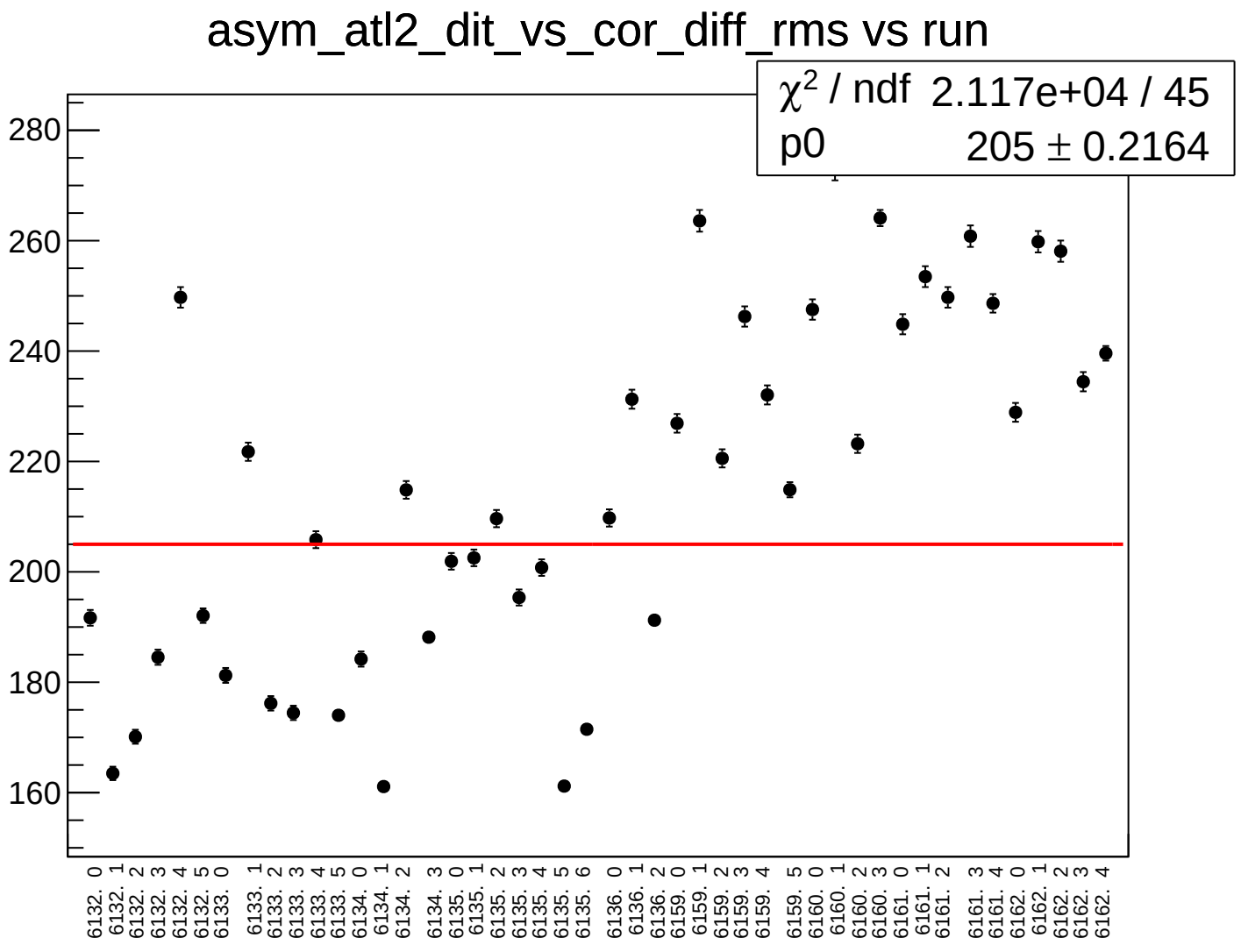

pull1D
Entries 46
Mean 0.01188
Std Dev 0.9513
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

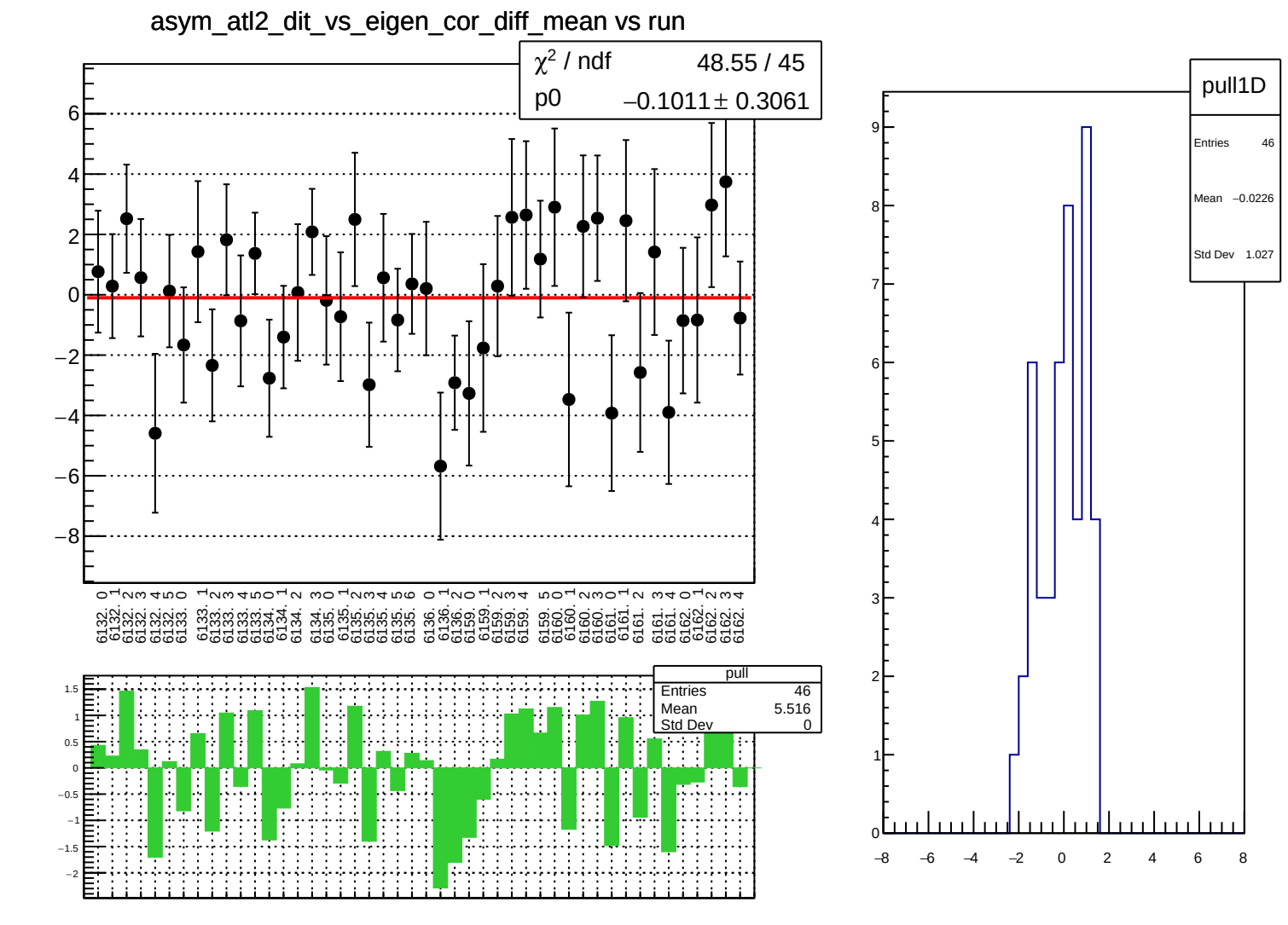

asym_atl2_rms vs run
χ^2 / ndf 2.243e+04 / 45
p0 6111 ± 6.456
10000
9000
8000
7000
6000
5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

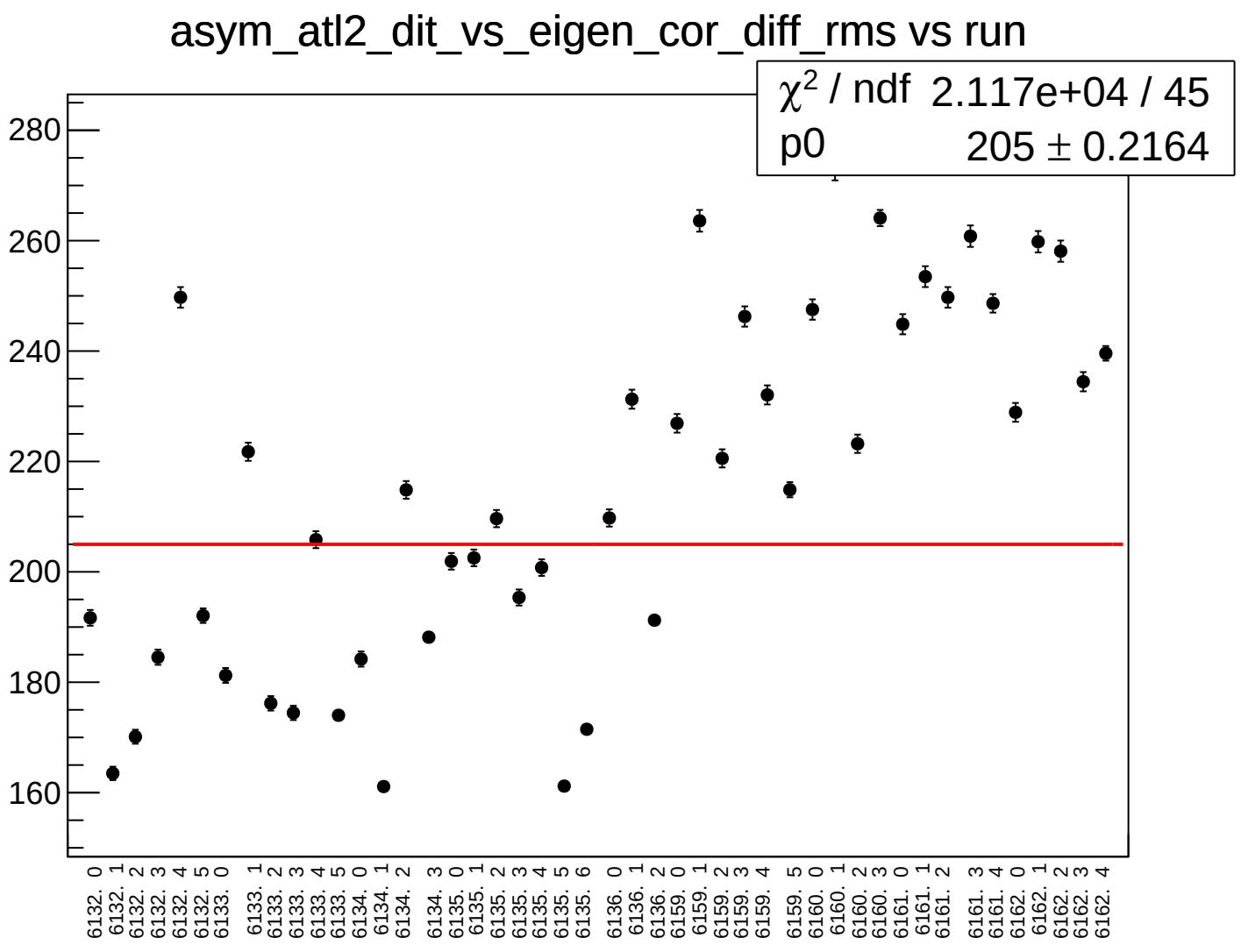

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 45.48 / 45
p0 −1.283e−13 ± 9.538e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 11.62
Std Dev 12.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.1736
Std Dev 0.9791
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

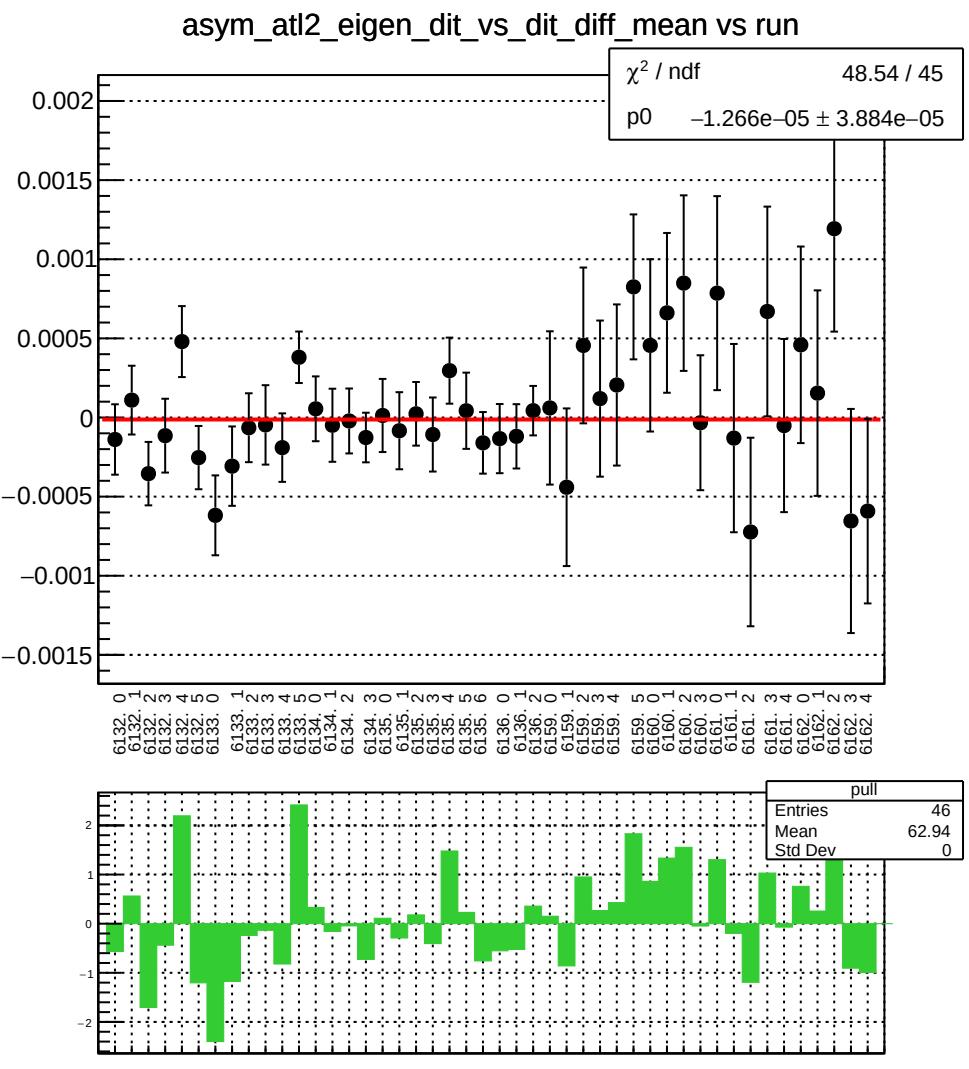

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 4.763e+05 / 45
p0 4.484e−10 ± 6.744e−13
1
0.8
0.6
0.4
0.2
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

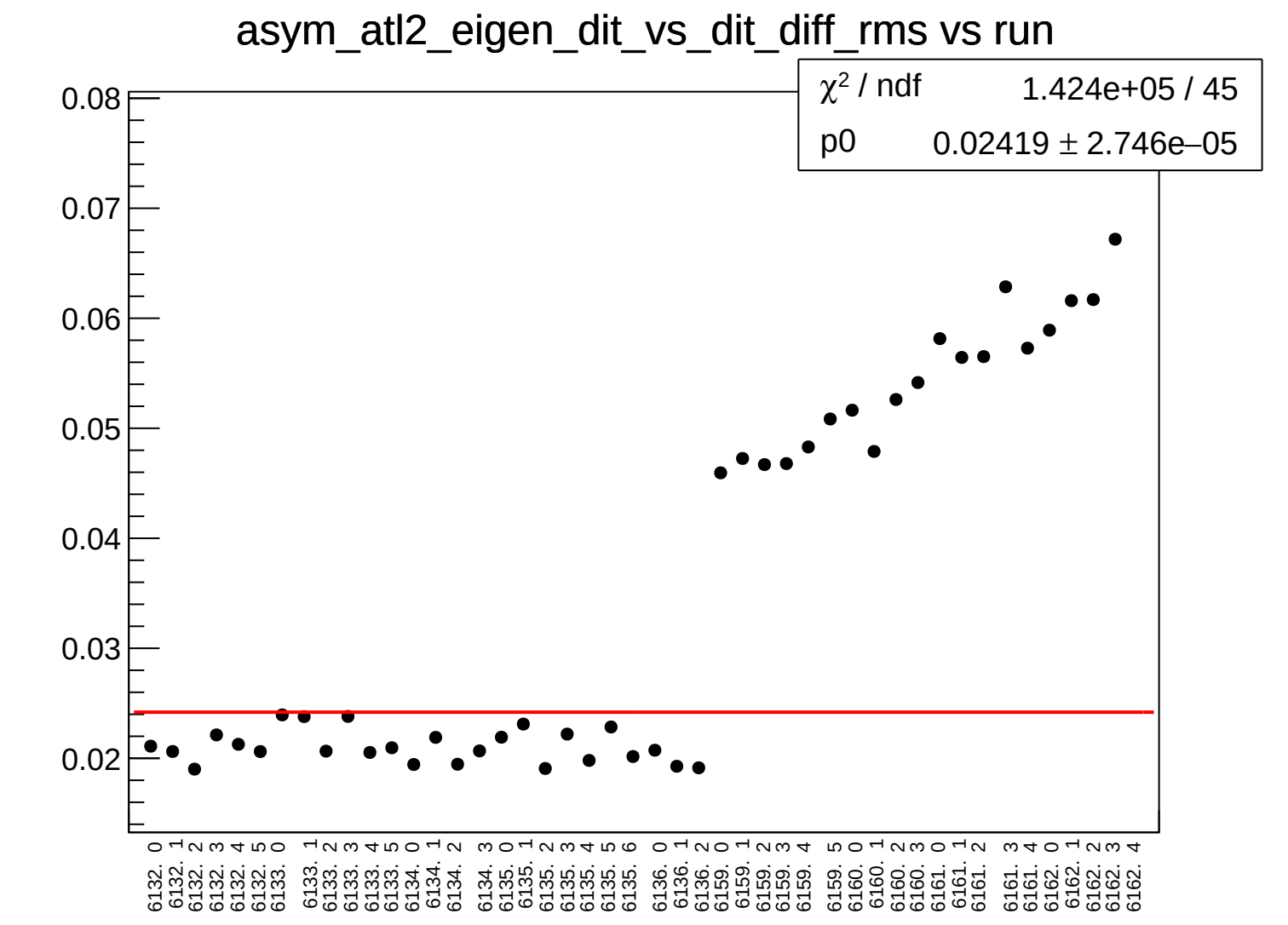

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 48.55 / 45
p0 −0.1011 ± 0.3061
pull
Entries 46
Mean 5.516
Std Dev 0
pull1D
Entries 46
Mean −0.0226
Std Dev 1.027

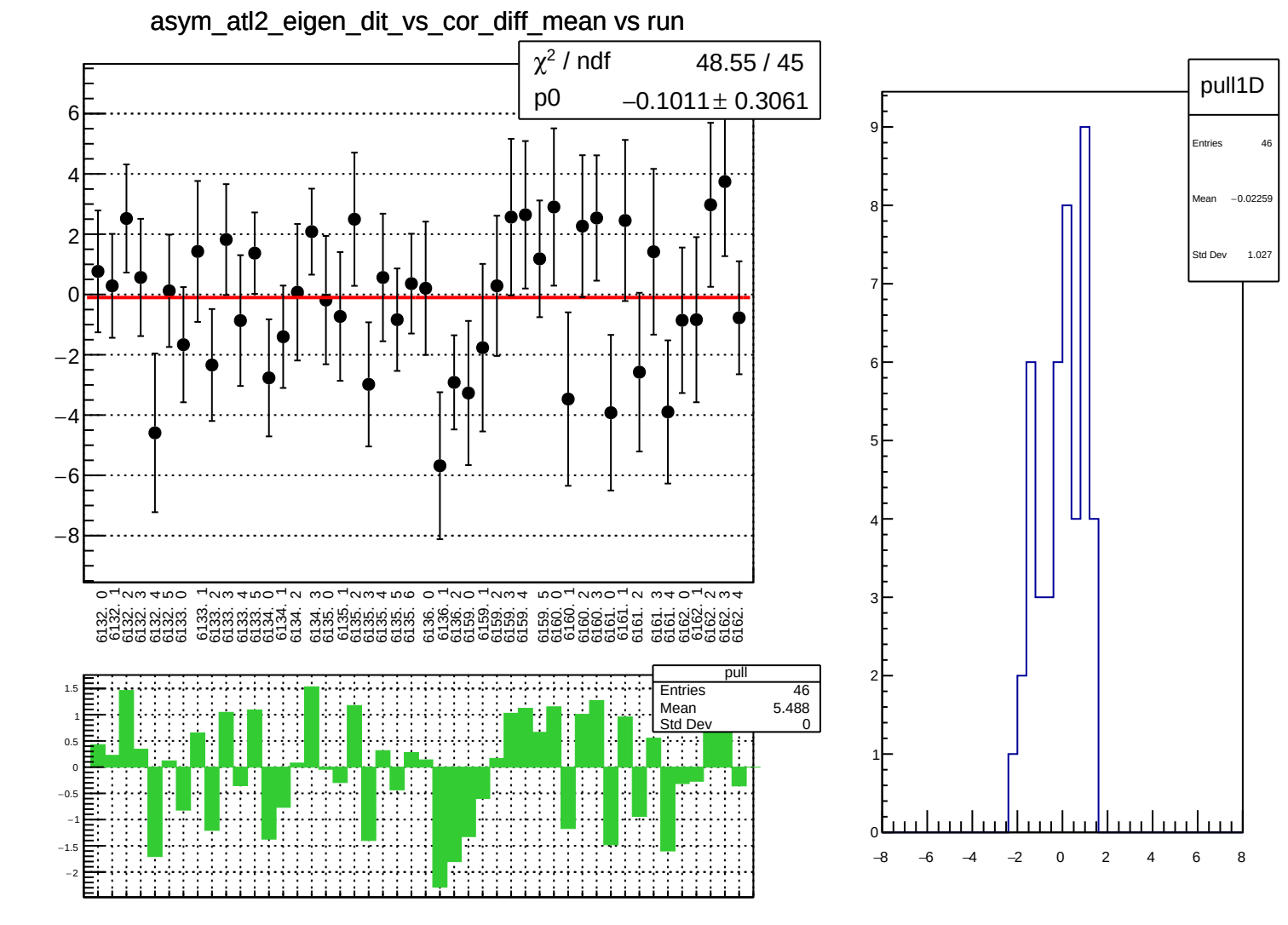

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.117e+04 / 45
p0 205 ± 0.2164
280
260
240
220
200
180
160
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

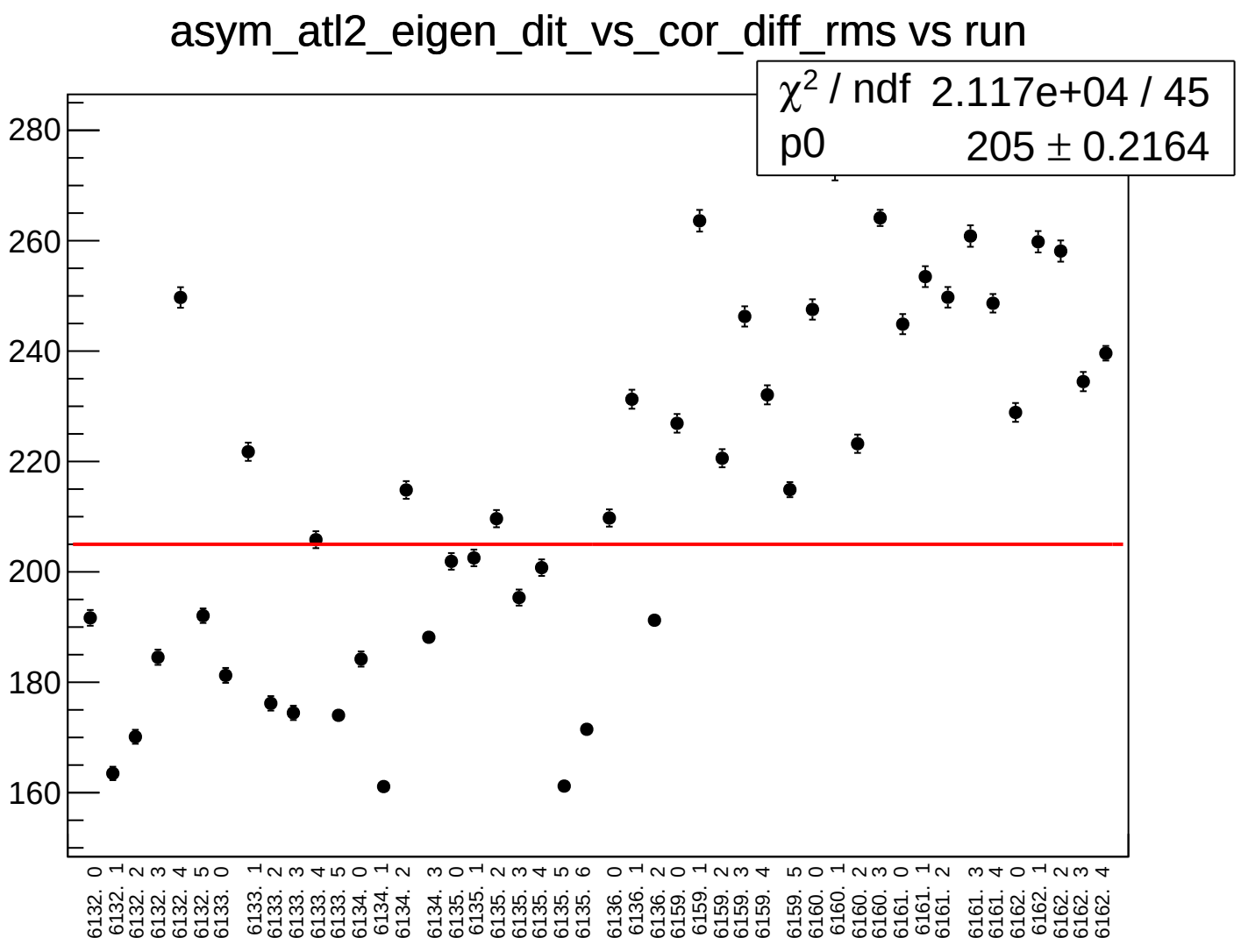

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.55 / 45
p0 −0.1011 ± 0.3061
pull
Entries 46
Mean 5.516
Std Dev 0
pull1D
Entries 46
Mean −0.0226
Std Dev 1.027

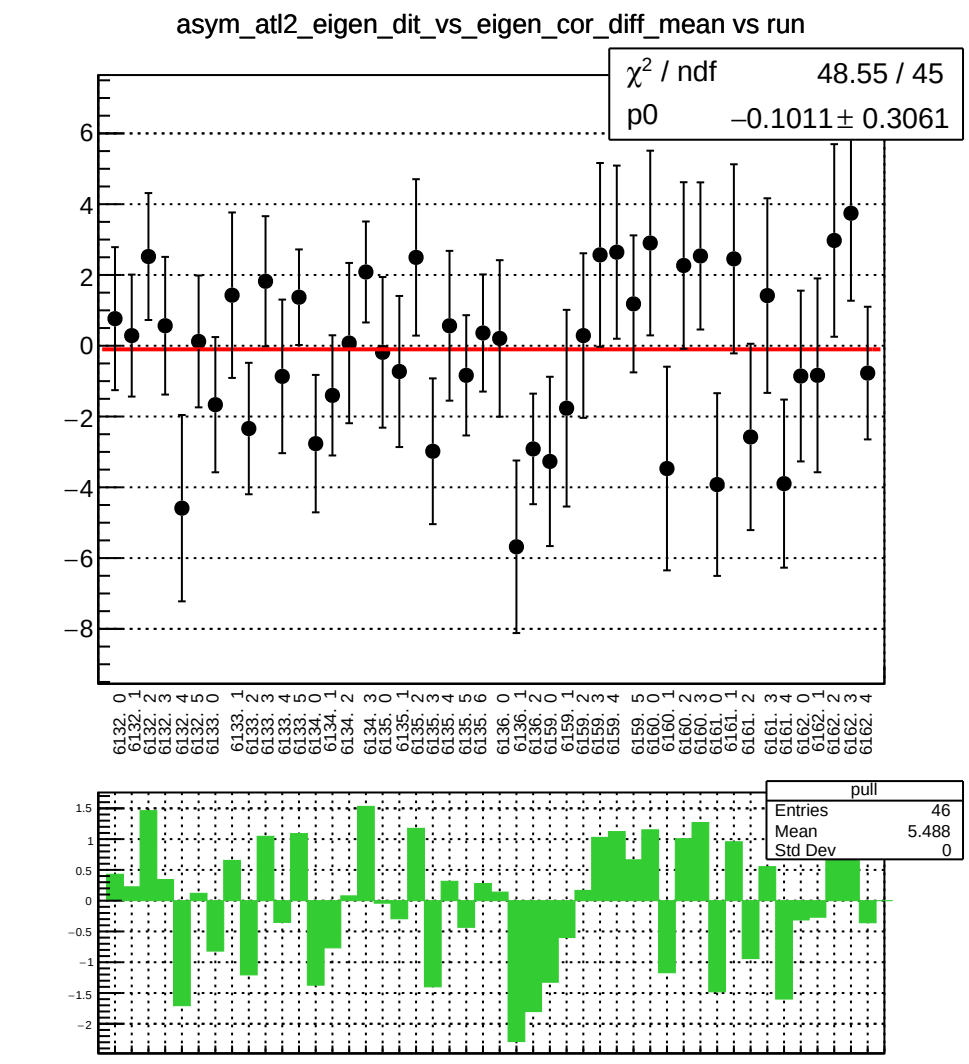

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.117e+04 / 45
p0 205 ± 0.2164
280
260
240
220
200
180
160
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

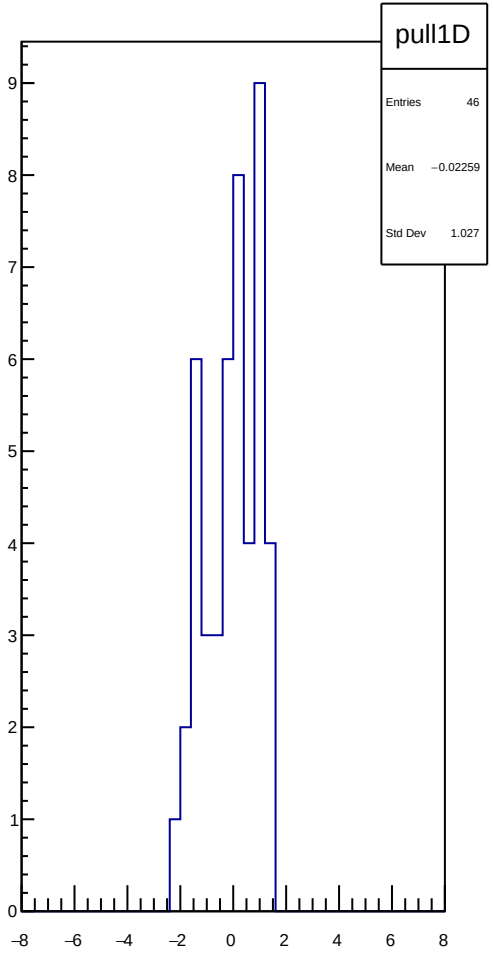

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 48.54 / 45
p0 −1.266e−05 ± 3.884e−05
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 62.94
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.08757
Std Dev 1.024
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

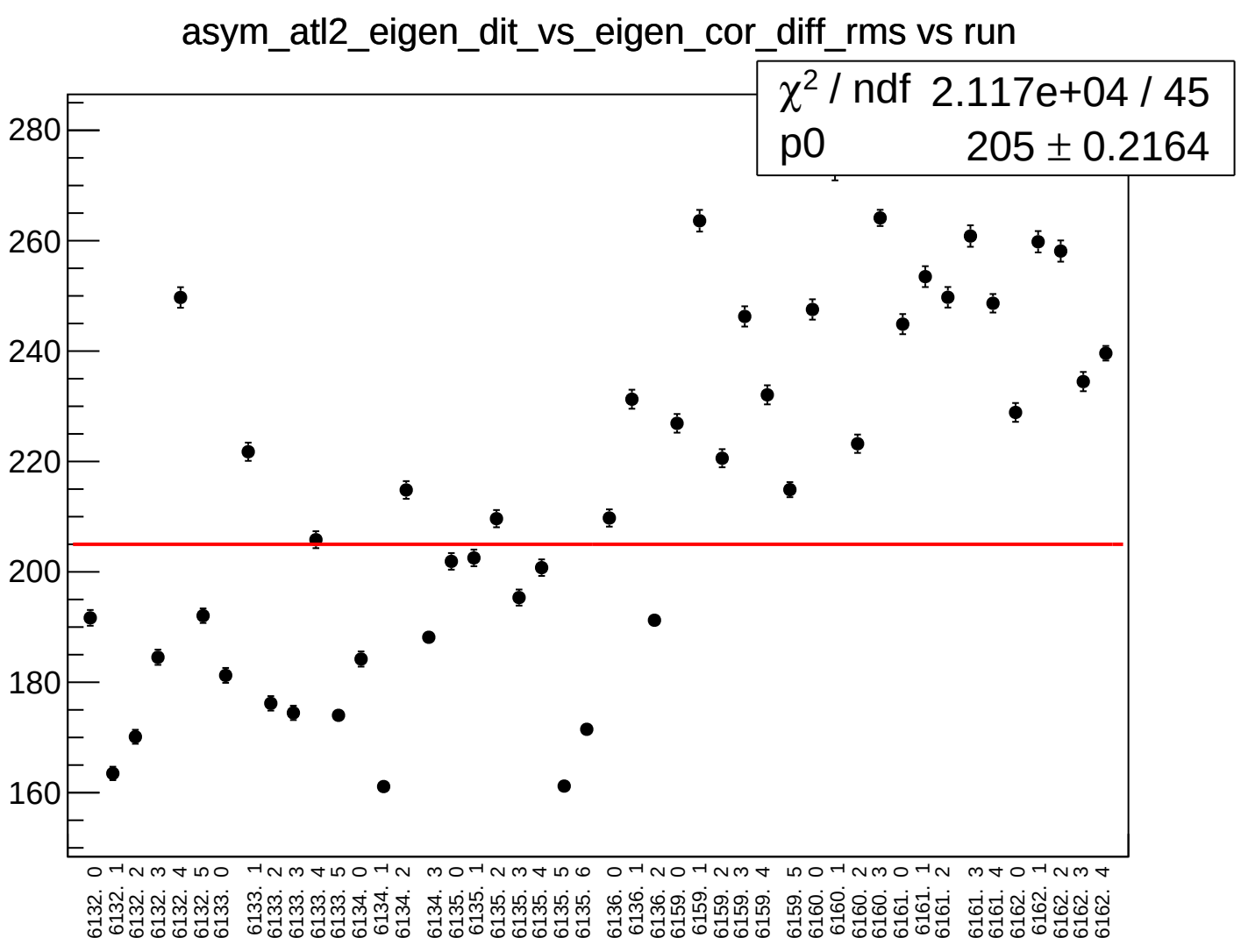

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.424e+05 / 45
p0 0.02419 ± 2.746e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

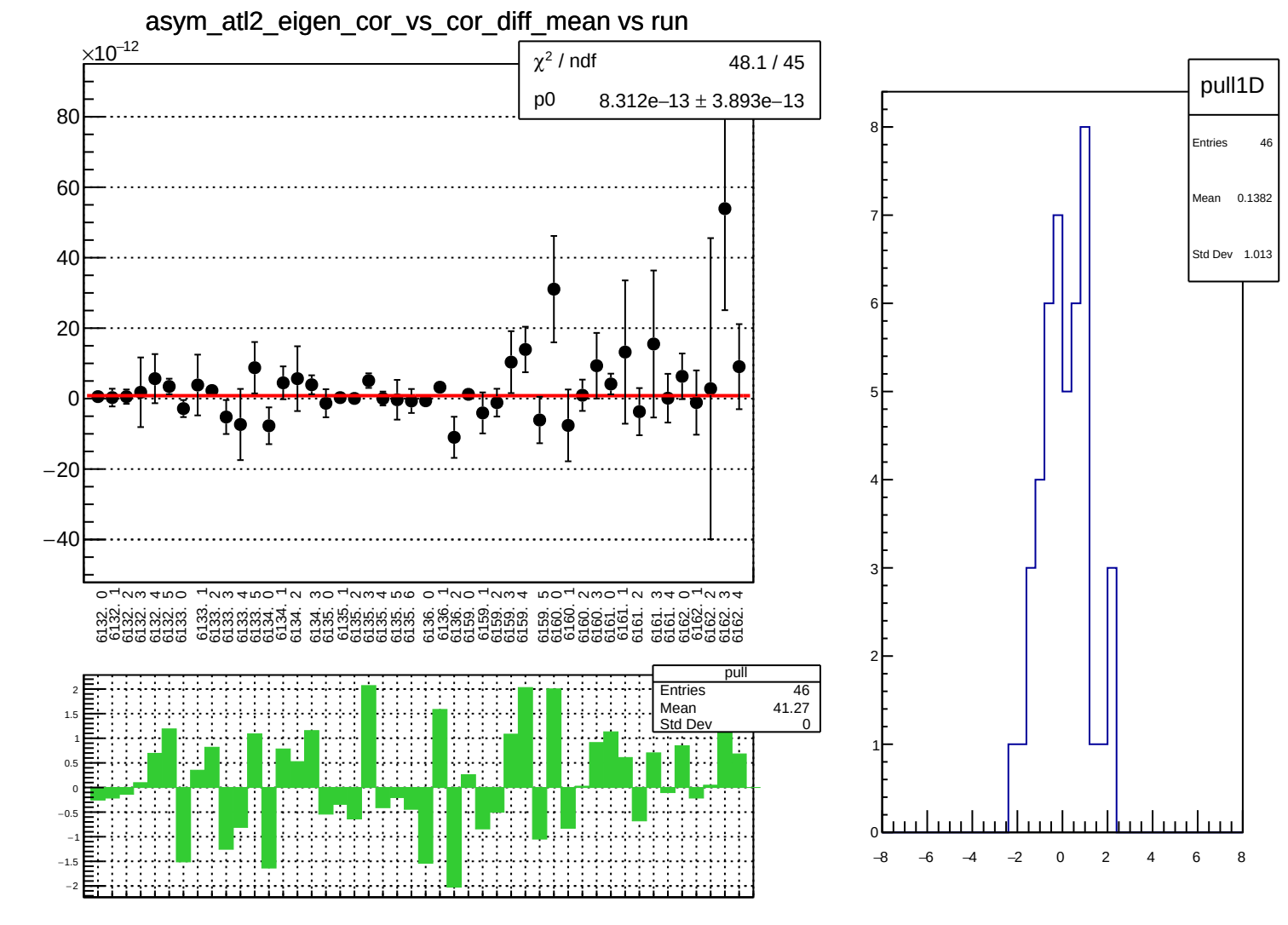

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 48.55 / 45
p0 −0.1011 ± 0.3061
pull
Entries 46
Mean 5.488
Std Dev 0
pull1D
Entries 46
Mean −0.02259
Std Dev 1.027

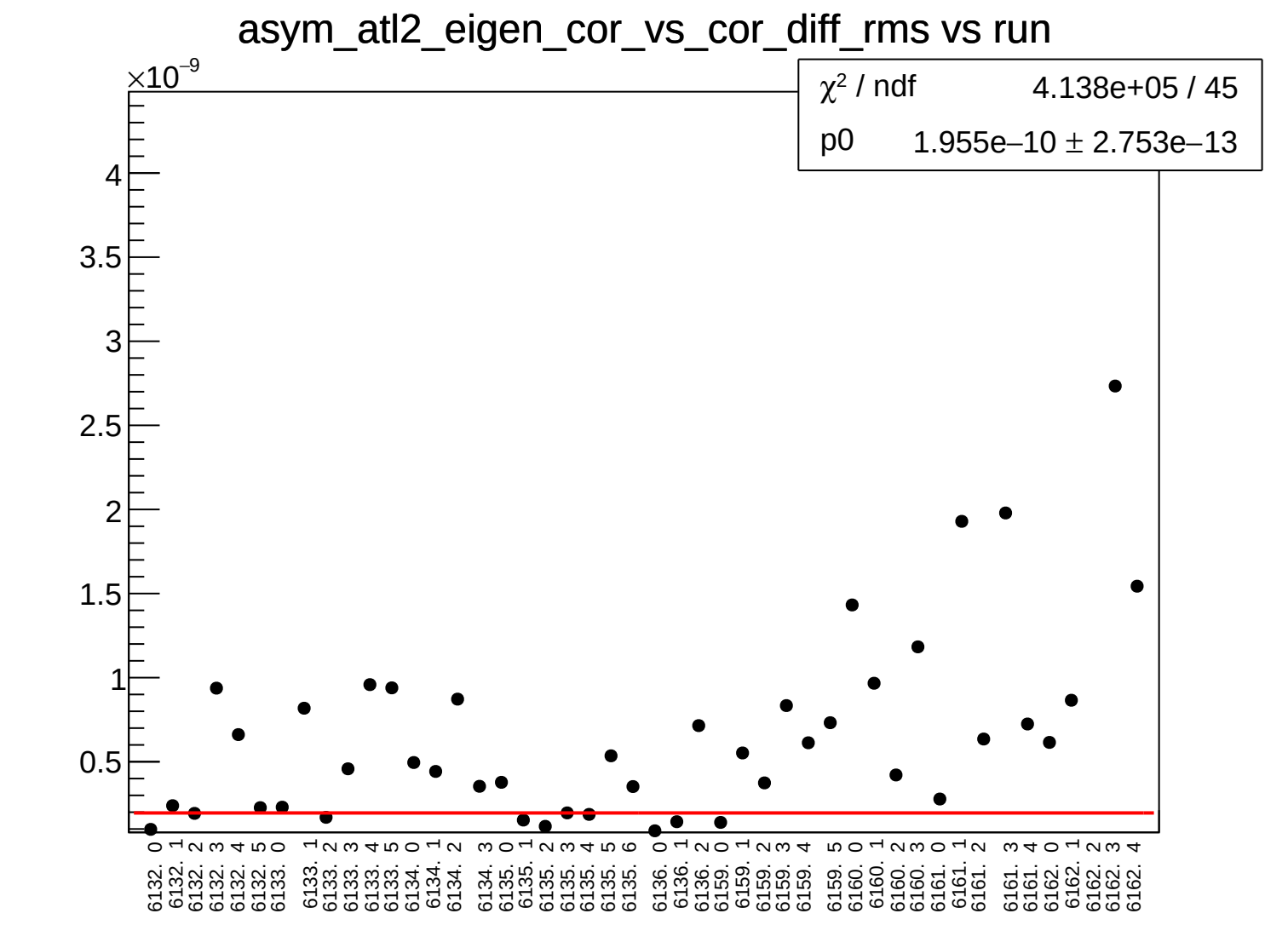

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.117e+04 / 45
p0 205 ± 0.2164
280
260
240
220
200
180
160
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

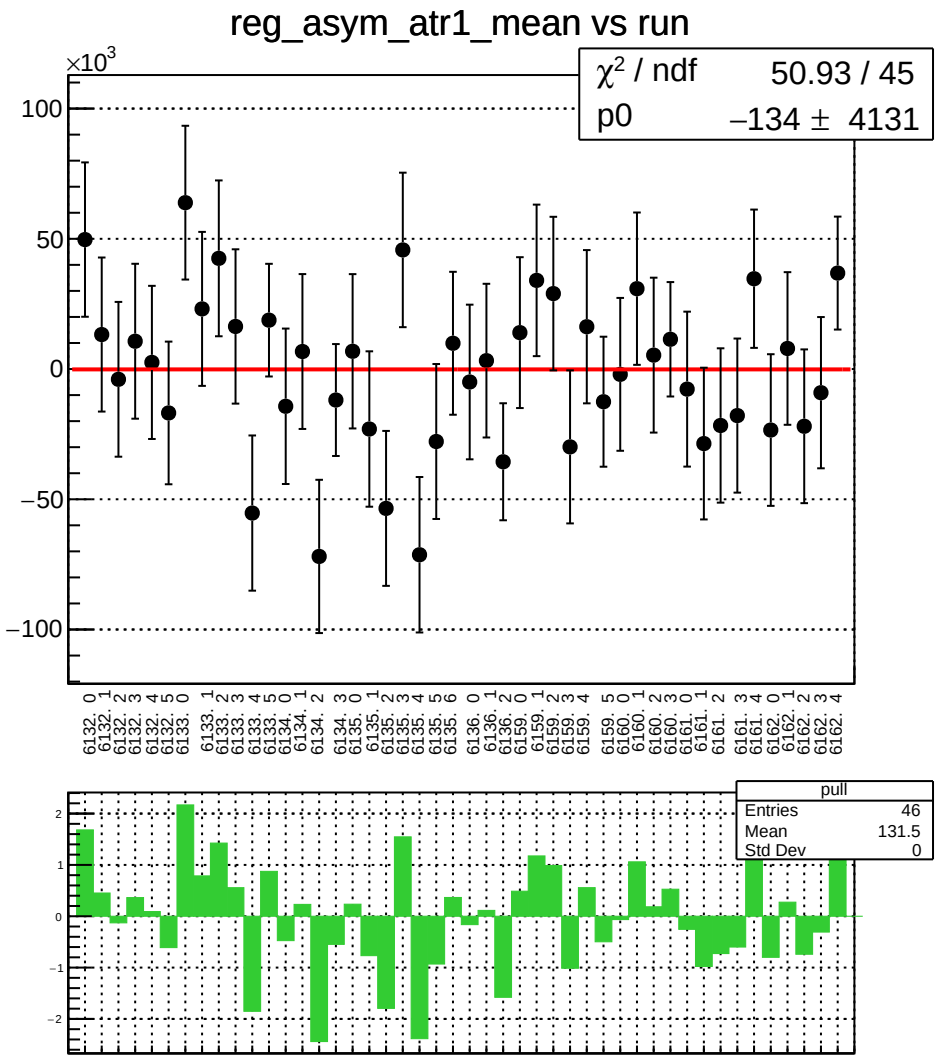

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.55 / 45
p0 −0.1011 ± 0.3061
pull
Entries 46
Mean 5.488
Std Dev 0

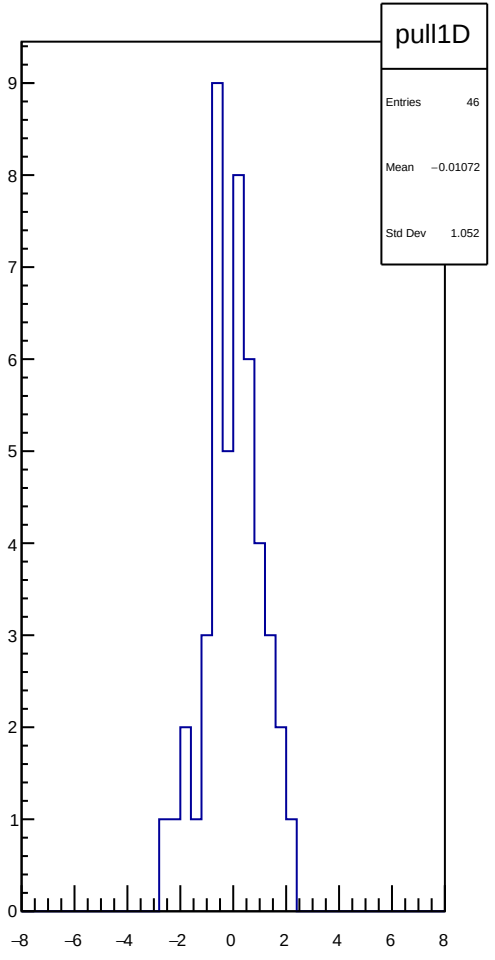

pull1D
Entries 46
Mean −0.02259
Std Dev 1.027

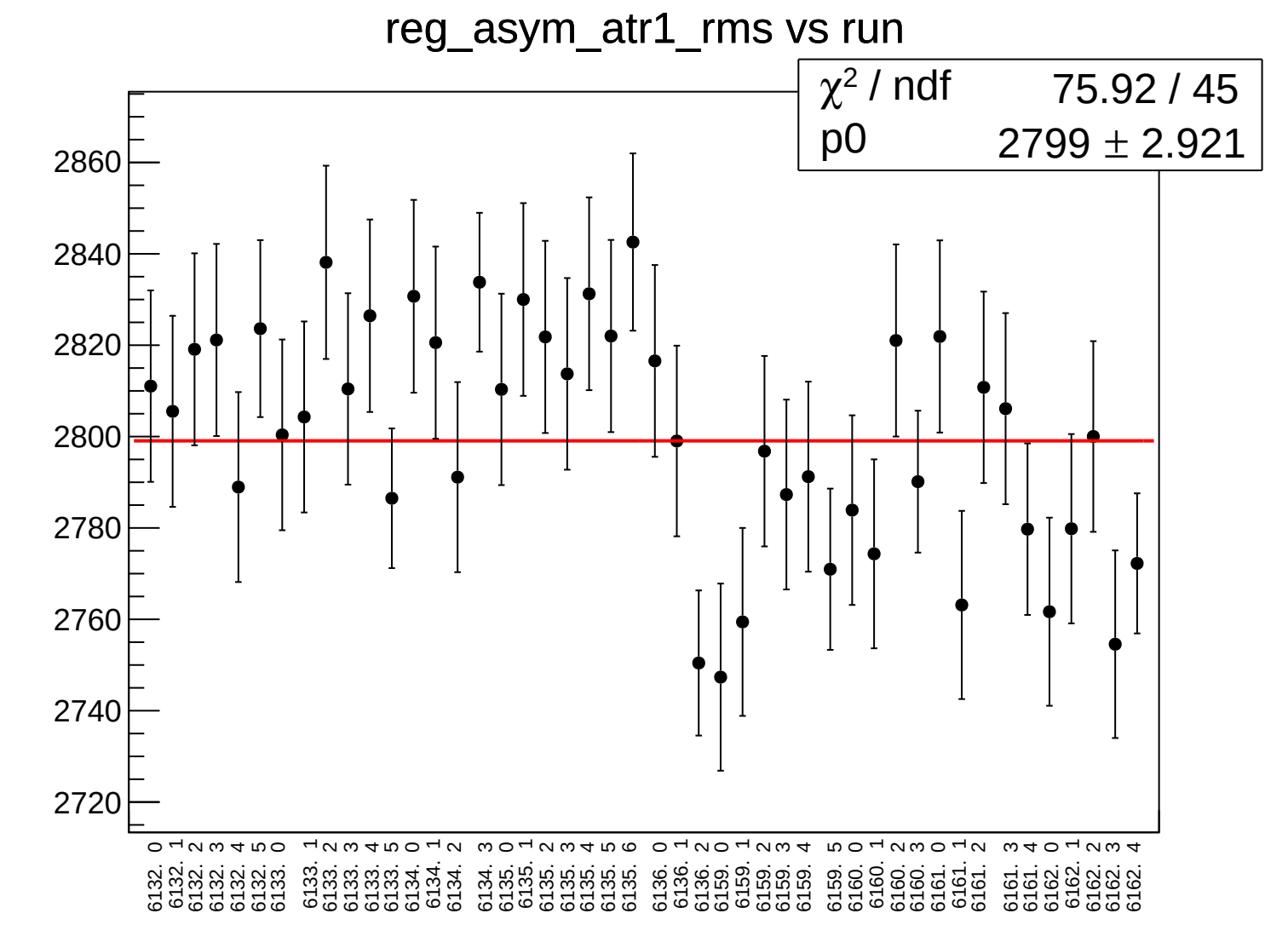

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.117e+04 / 45
p0 205 ± 0.2164
280
260
240
220
200
180
160
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

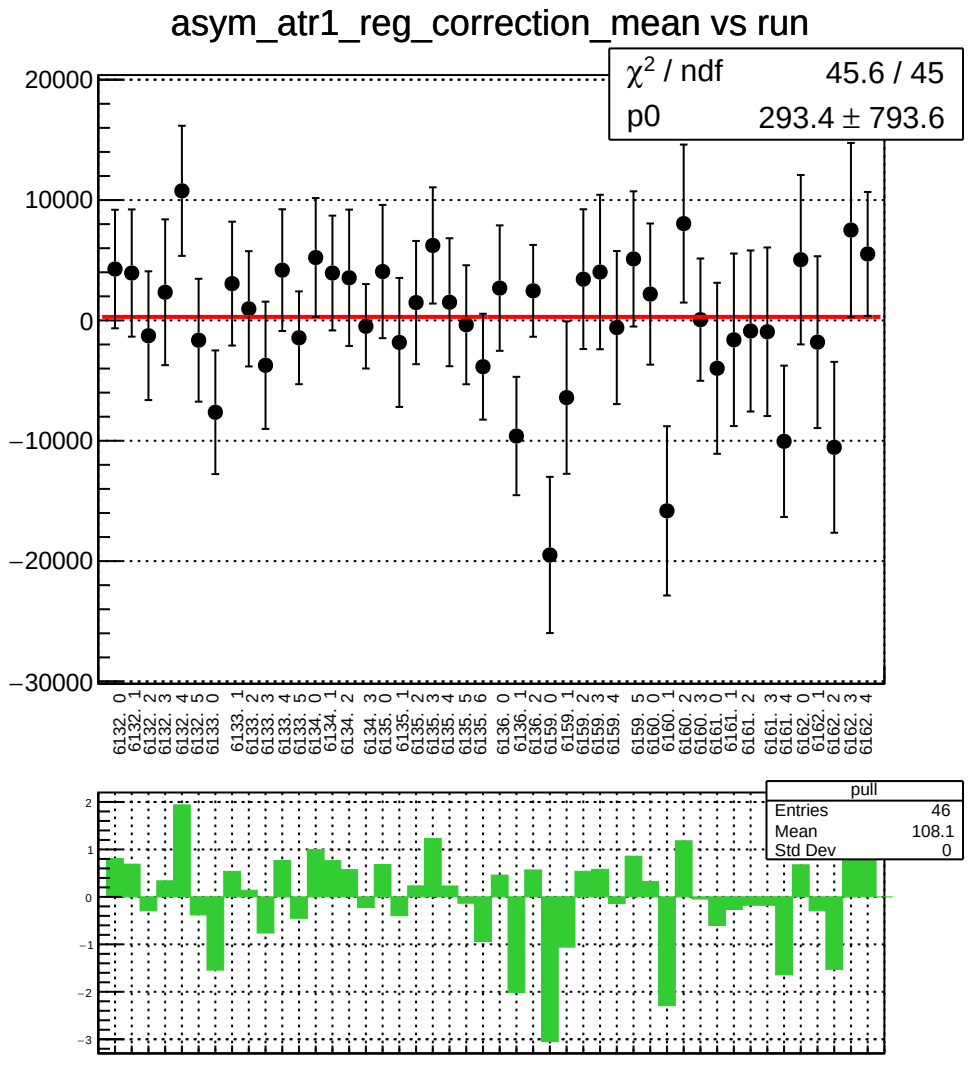

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 48.1 / 45
p0 8.312e−13 ± 3.893e−13
80
60
40
20
0
−20
−40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 41.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.1382
Std Dev 1.013
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.138e+05 / 45
p0 1.955e−10 ± 2.753e−13
4
3.5
3
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_atr1_mean vs run
×10^3
χ² / ndf 50.93 / 45
p0 −134 ± 4131
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 131.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.01072
Std Dev 1.052
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1_rms vs run
χ² / ndf 75.92 / 45
p0 2799 ± 2.921
2860
2840
2820
2800
2780
2760
2740
2720
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atr1_reg_correction_mean vs run
χ² / ndf 45.6 / 45
p0 293.4 ± 793.6
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
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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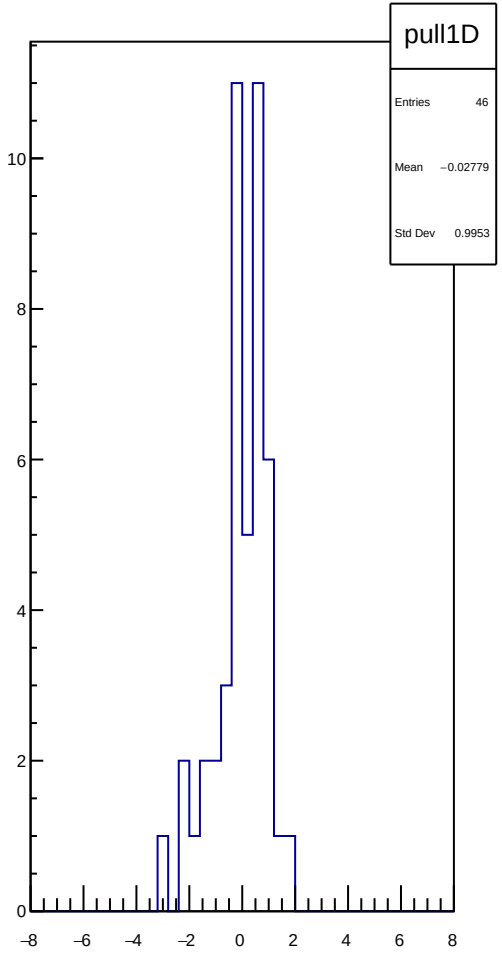
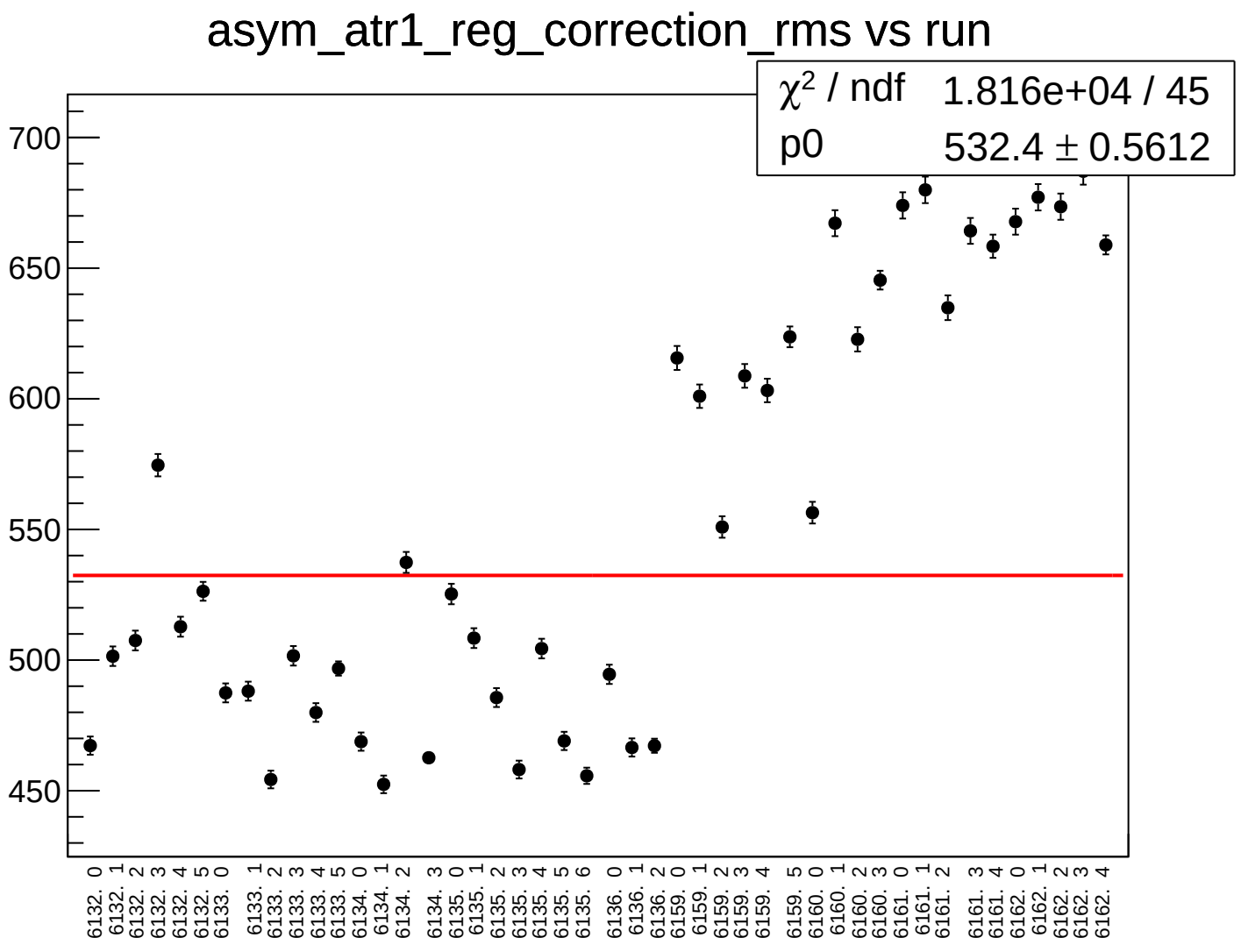
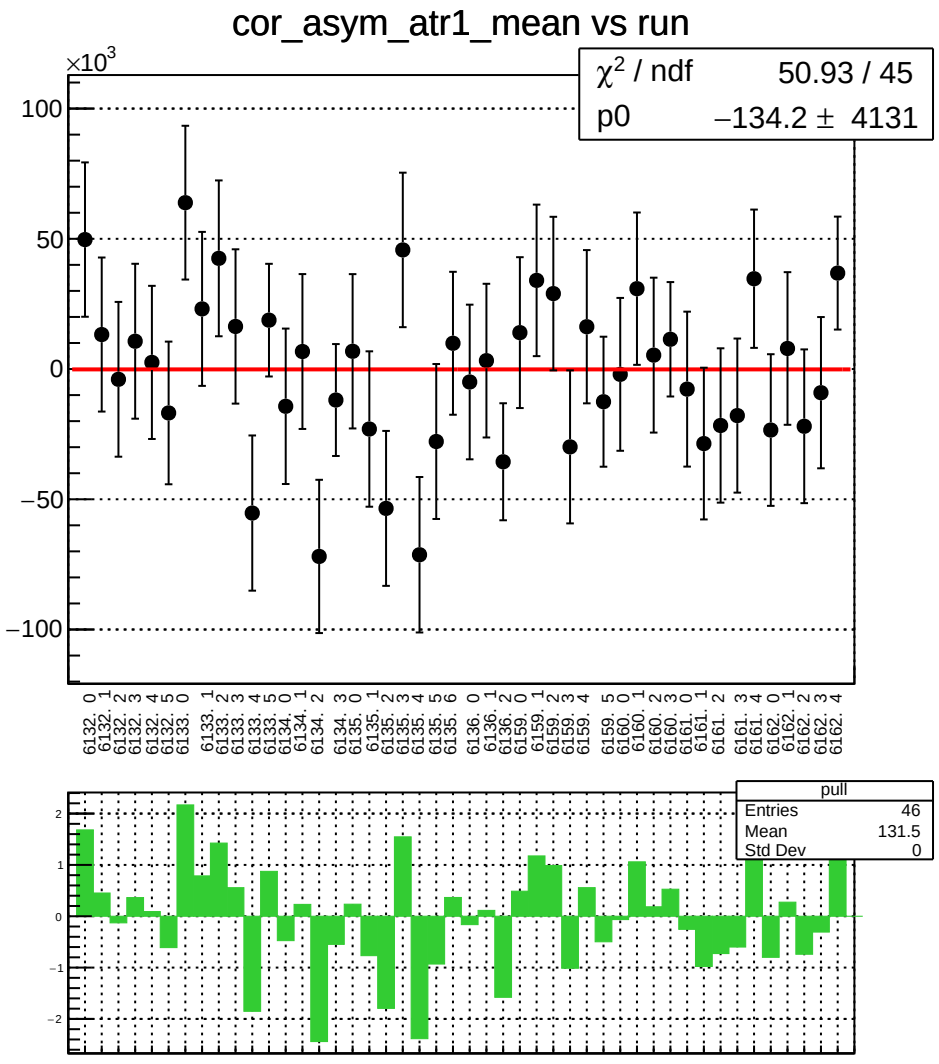
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 108.1
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean −0.02779
Std Dev 0.9953
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1_reg_correction_rms vs run
χ² / ndf 1.816e+04 / 45
p0 532.4 ± 0.5612
700
650
600
550
500
450
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 50.93 / 45
p0 −134.2 ± 4131
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 1
6134. 2
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6135. 0
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
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6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
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6161. 0
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6161. 2
6161. 3
6161. 4
6162. 0
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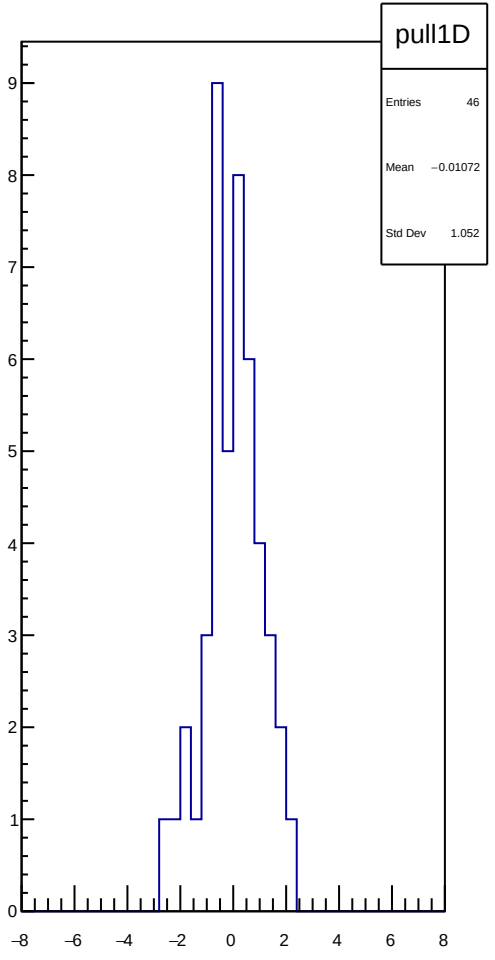
6162. 3
6162. 4
pull
Entries 46
Mean 131.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.01072
Std Dev 1.052
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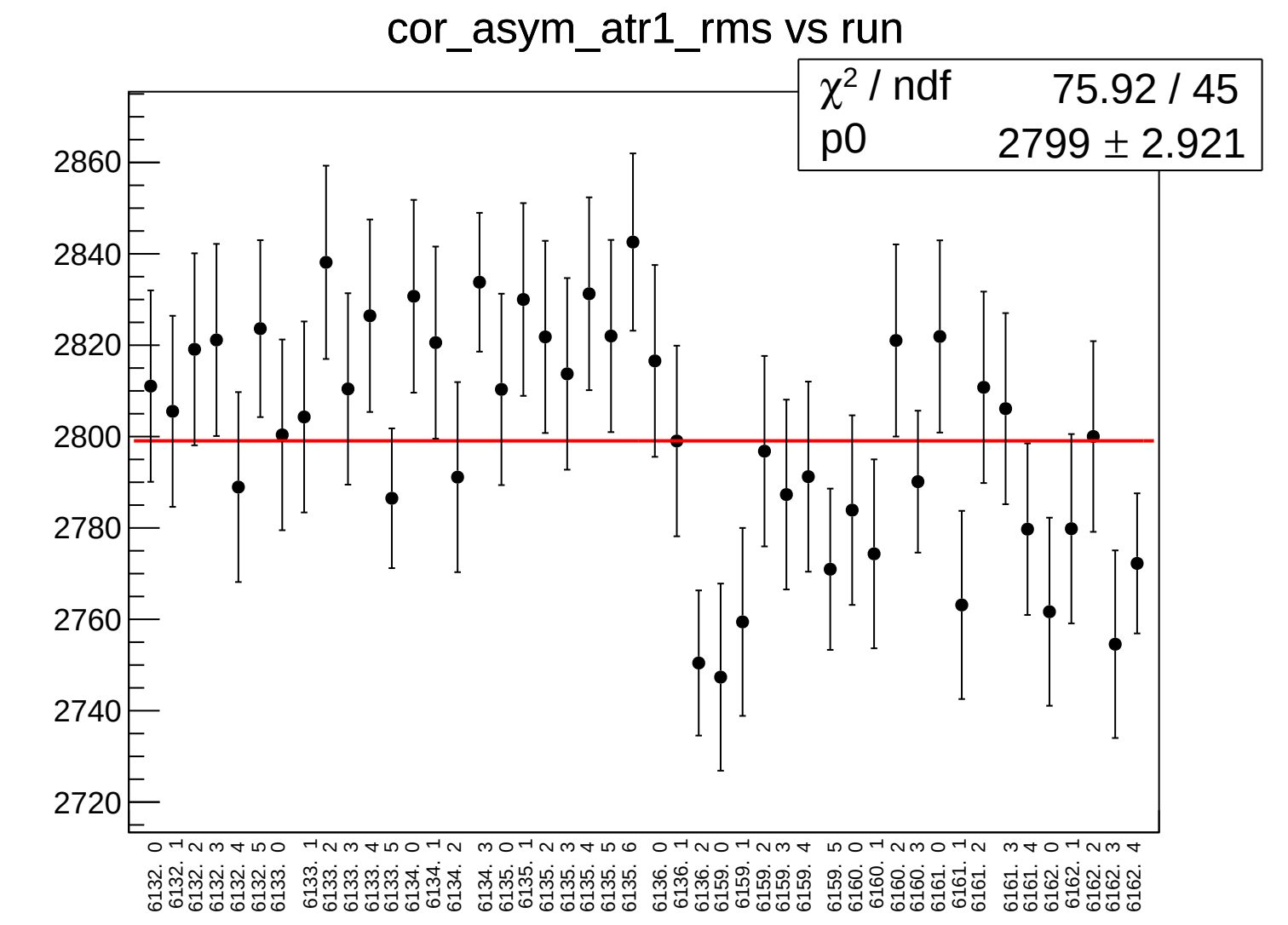
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr1_rms vs run
χ² / ndf 75.92 / 45
p0 2799 ± 2.921
2860
2840
2820
2800
2780
2760
2740
2720
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 5
6134. 0
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6135. 4
6135. 5
6135. 6
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6136. 2
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6159. 2
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6159. 5
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6160. 1
6160. 2
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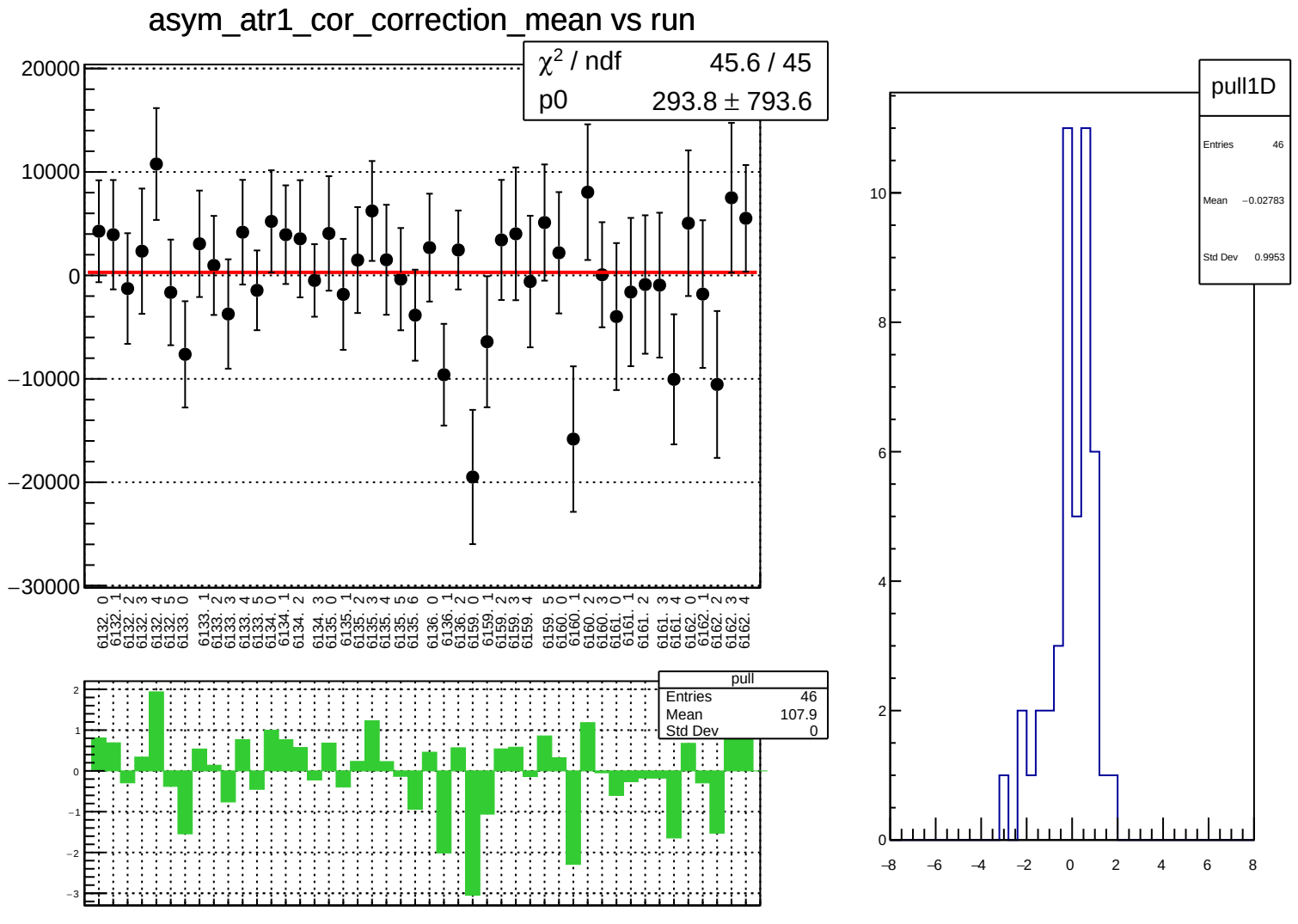
6162. 4


asym_atr1_cor_correction_mean vs run
χ² / ndf 45.6 / 45
p0 293.8 ± 793.6
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
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6132. 4
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6161. 4
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6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 107.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.02783
Std Dev 0.9953
10
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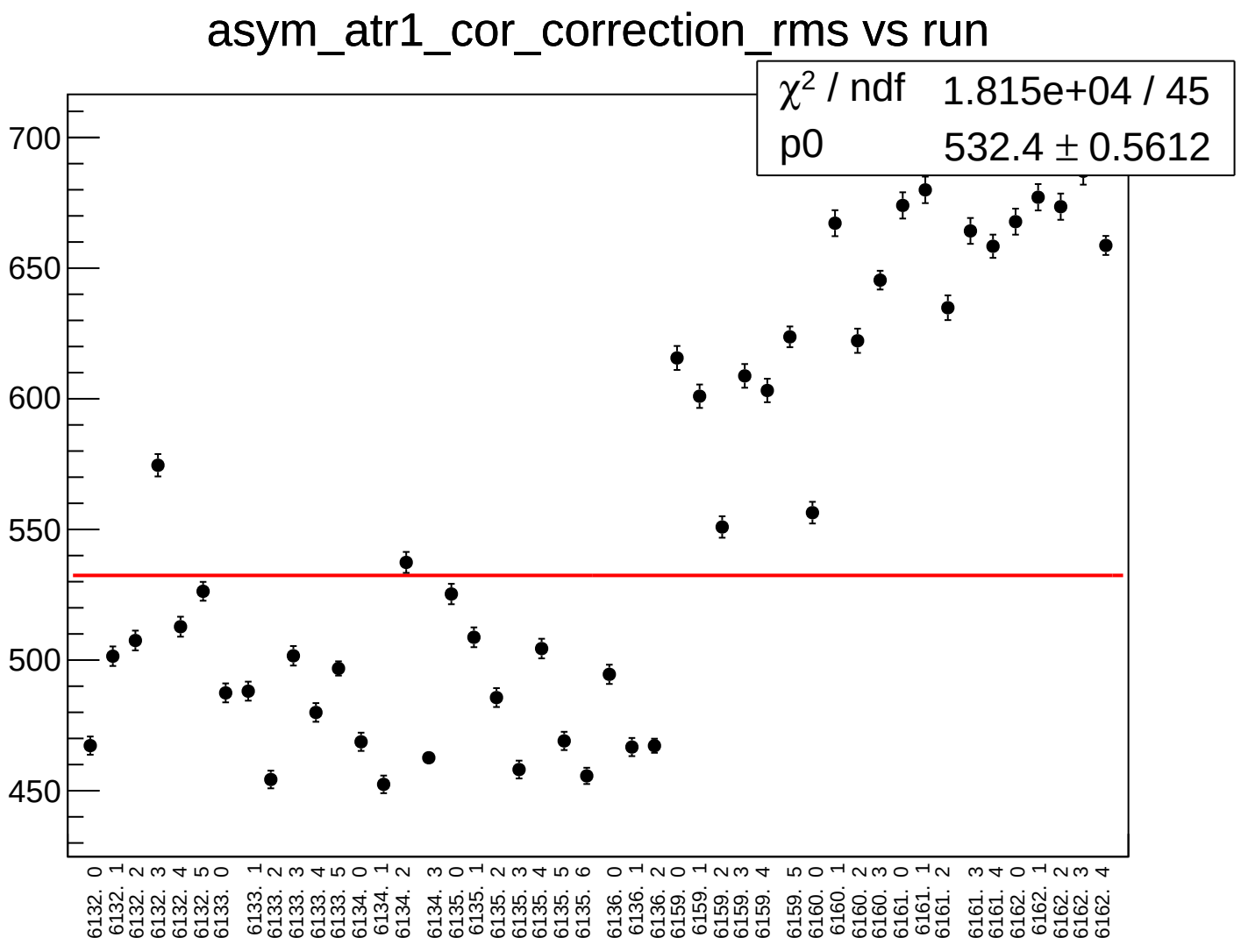
−4
−2
0
2
4
6
8


asym_atr1_cor_correction_rms vs run
χ² / ndf 1.815e+04 / 45
p0 532.4 ± 0.5612
700
650
600
550
500
450
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6135. 5
6135. 6
6136. 0
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6136. 2
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6160. 2
6160. 3
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6162. 0
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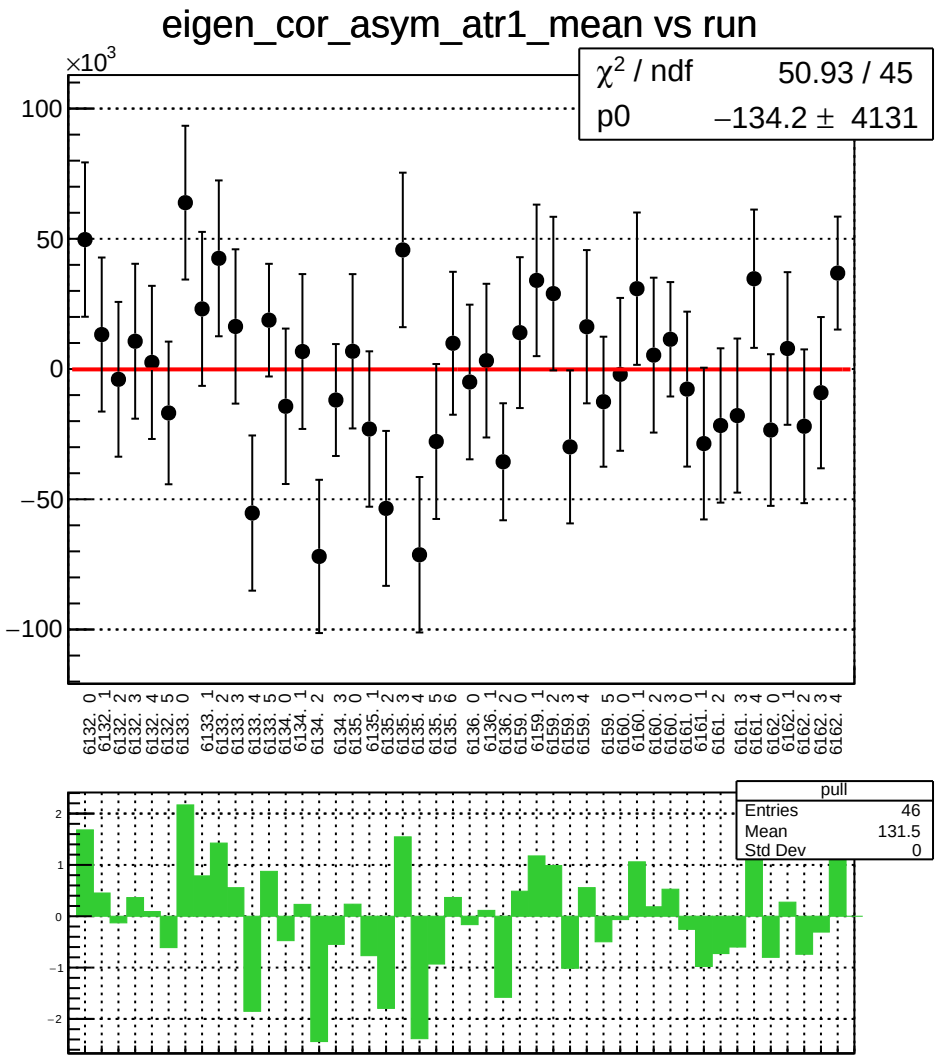
6162. 2
6162. 3
6162. 4


eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 50.93 / 45
p0 −134.2 ± 4131
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
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6135. 1
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6135. 6
6136. 0
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6136. 2
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6161. 4
6162. 0
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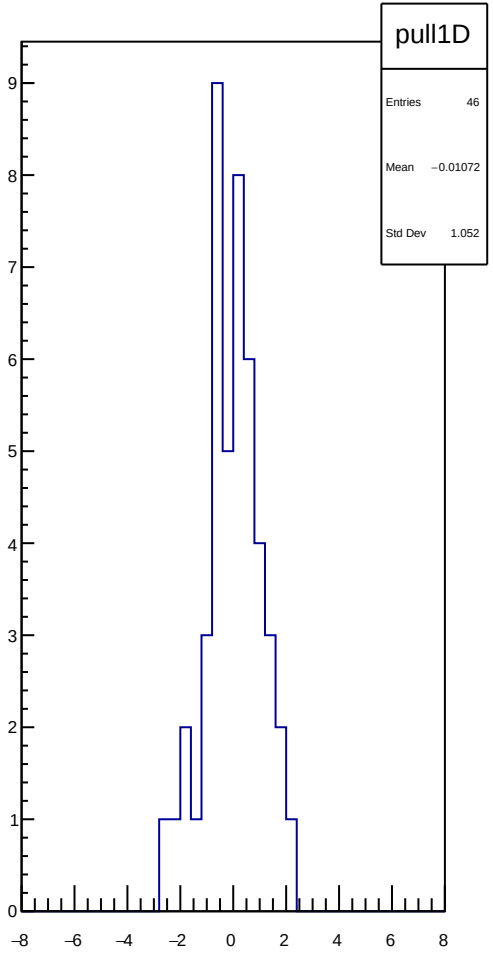
6162. 3
6162. 4
pull
Entries 46
Mean 131.5
Std Dev 0
2
1
0
−1
−2


pull1D
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Mean −0.01072
Std Dev 1.052
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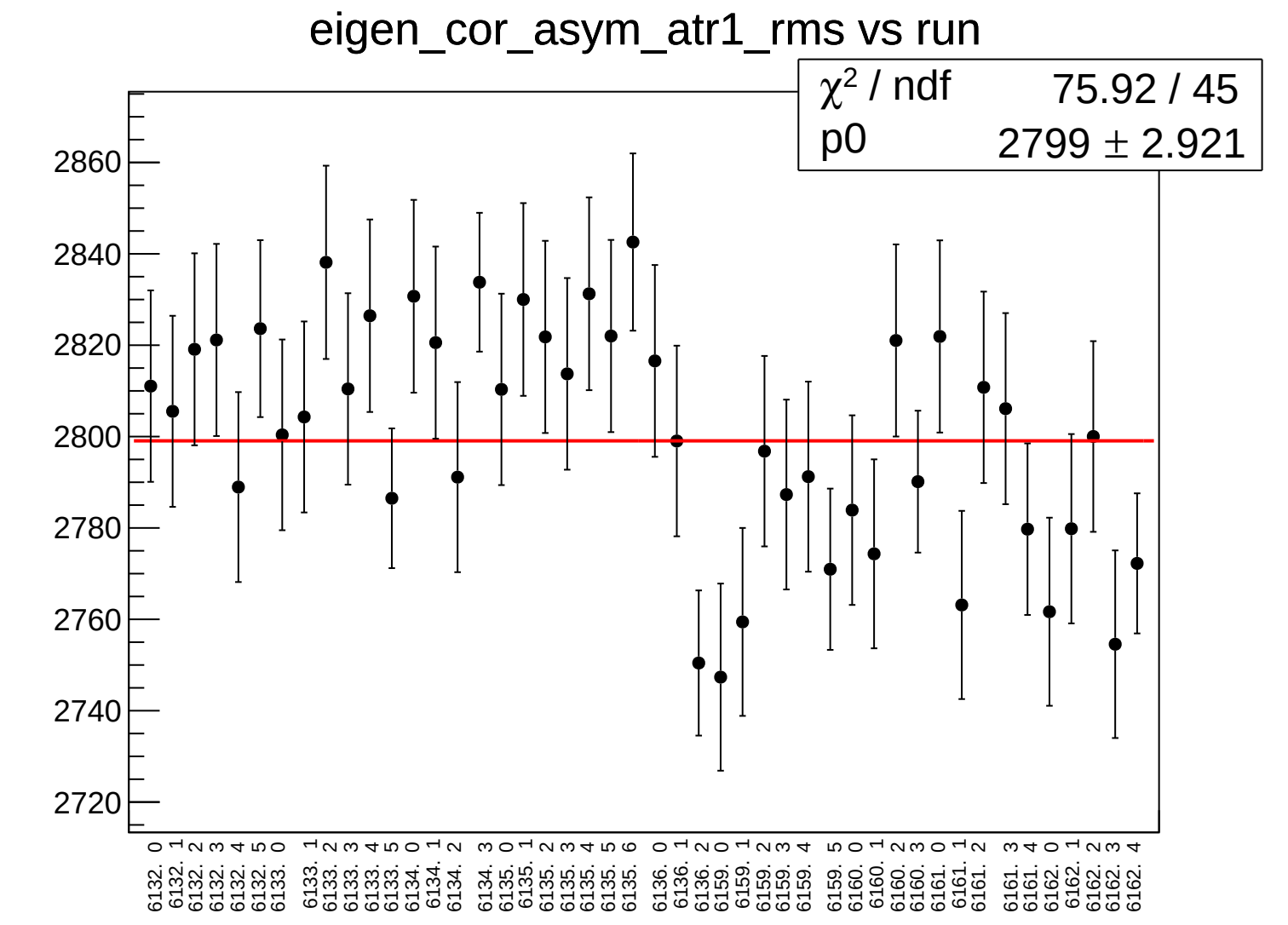
eigen_cor_asym_atr1_rms vs run
χ² / ndf 75.92 / 45
p0 2799 ± 2.921
2860
2840
2820
2800
2780
2760
2740
2720
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 3
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6135. 5
6135. 6
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6160. 2
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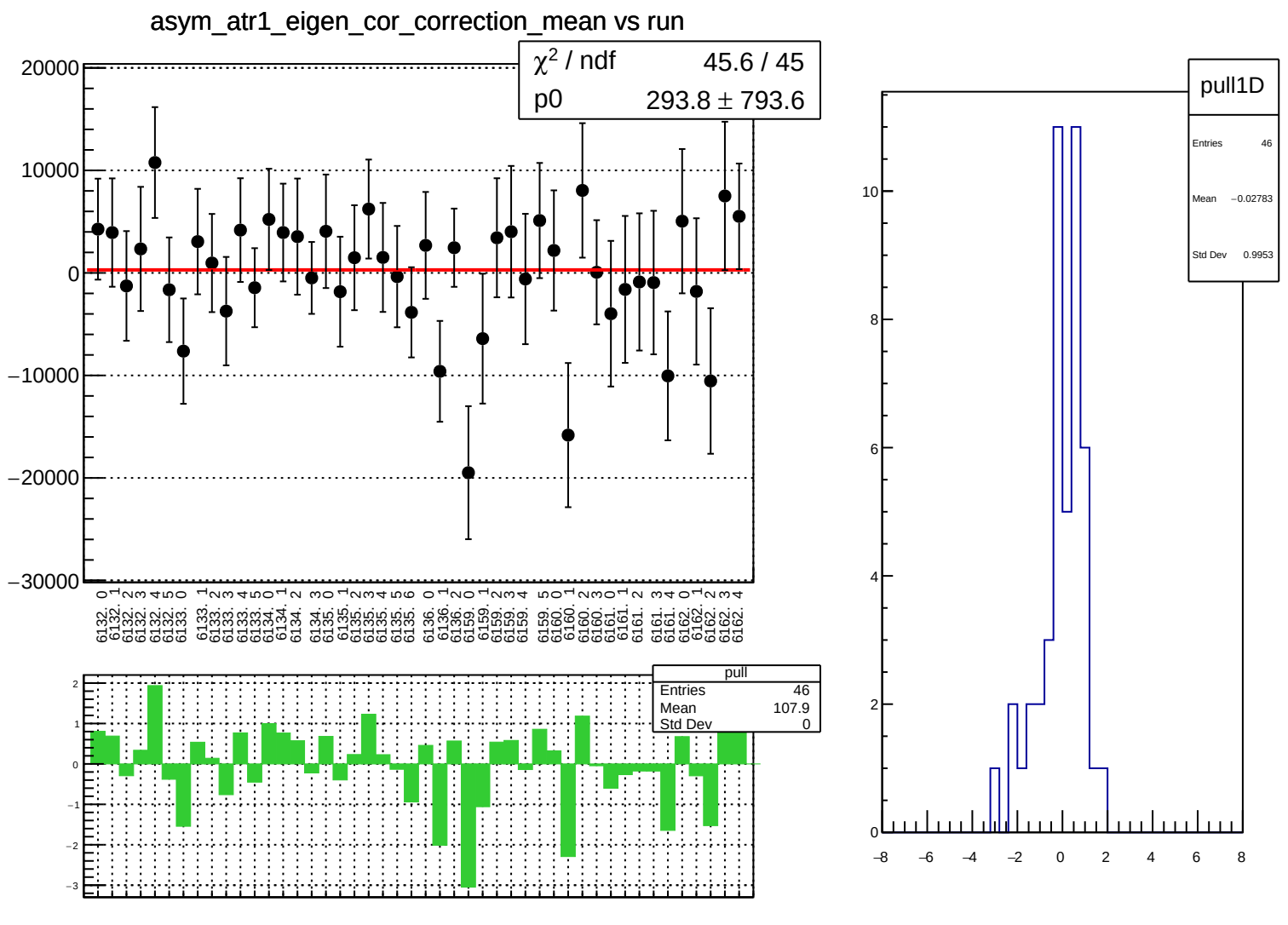
asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 45.6 / 45
p0 293.8 ± 793.6
20000
10000
0
−10000
−20000
−30000
6132. 0
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pull
Entries 46
Mean 107.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.02783
Std Dev 0.9953
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8
6
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−4
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6
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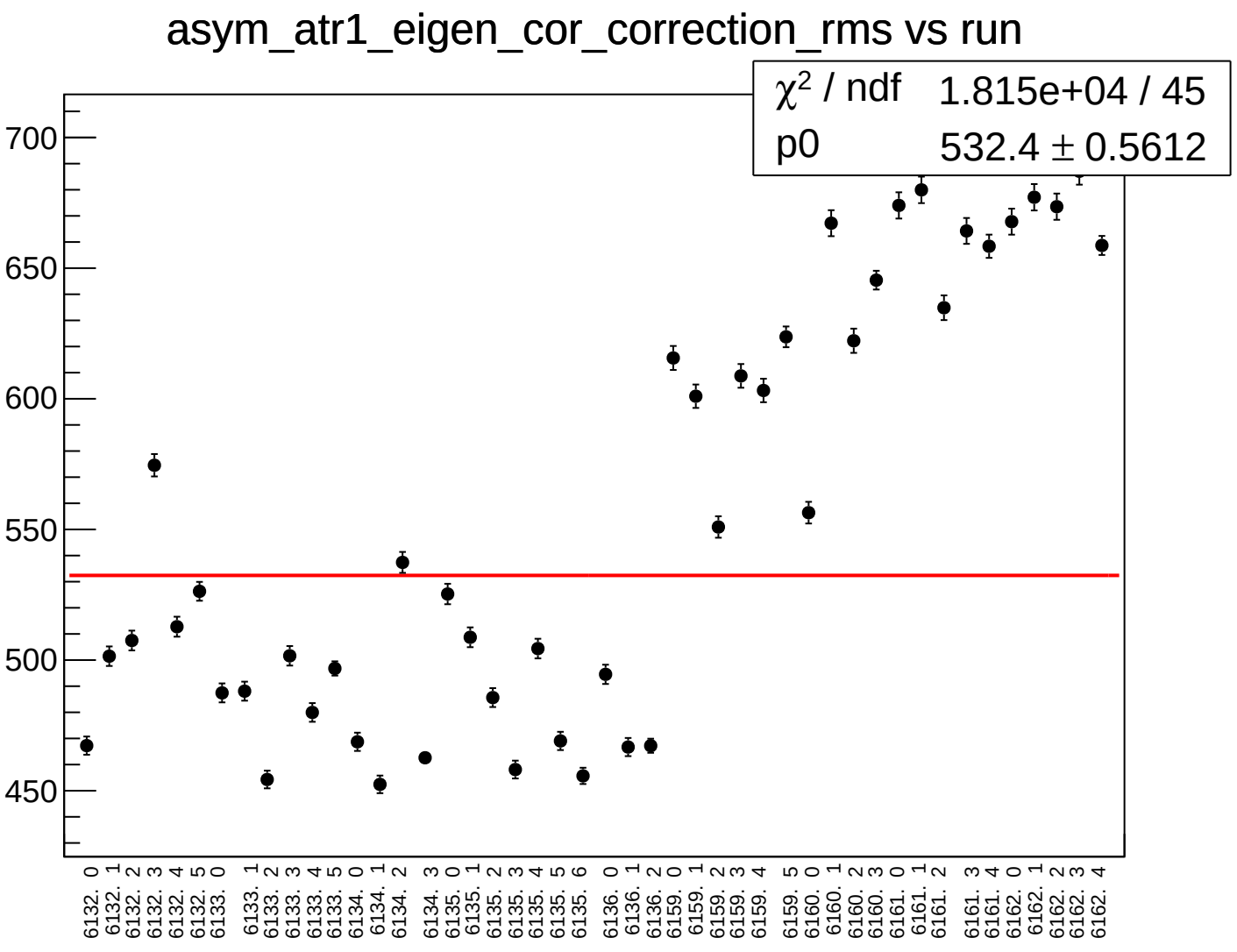
asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 1.815e+04 / 45
p0 532.4 ± 0.5612
700
650
600
550
500
450
6132. 0
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6132. 2
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6132. 4
6132. 5
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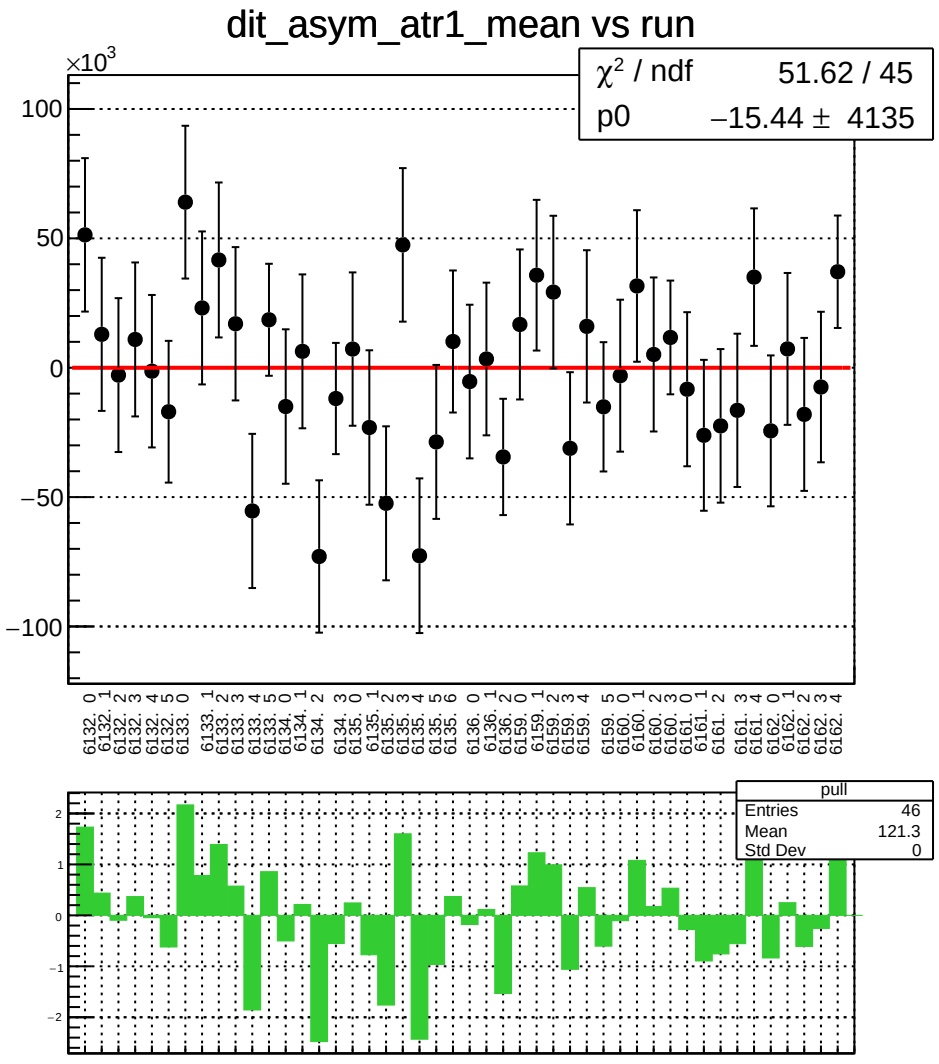
6162. 4


dit_asym_atr1_mean vs run
×10^3
χ² / ndf 51.62 / 45
p0 −15.44 ± 4135
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
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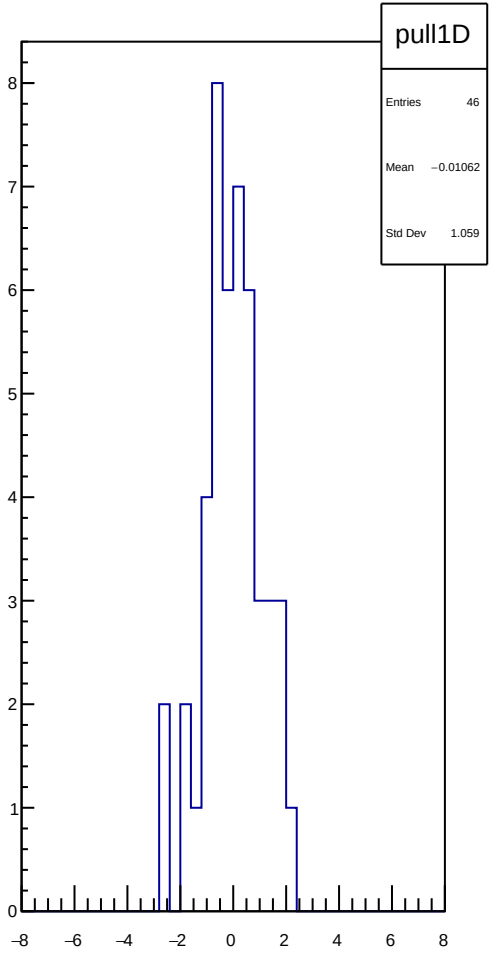
pull
Entries 46
Mean 121.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.01062
Std Dev 1.059
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−4
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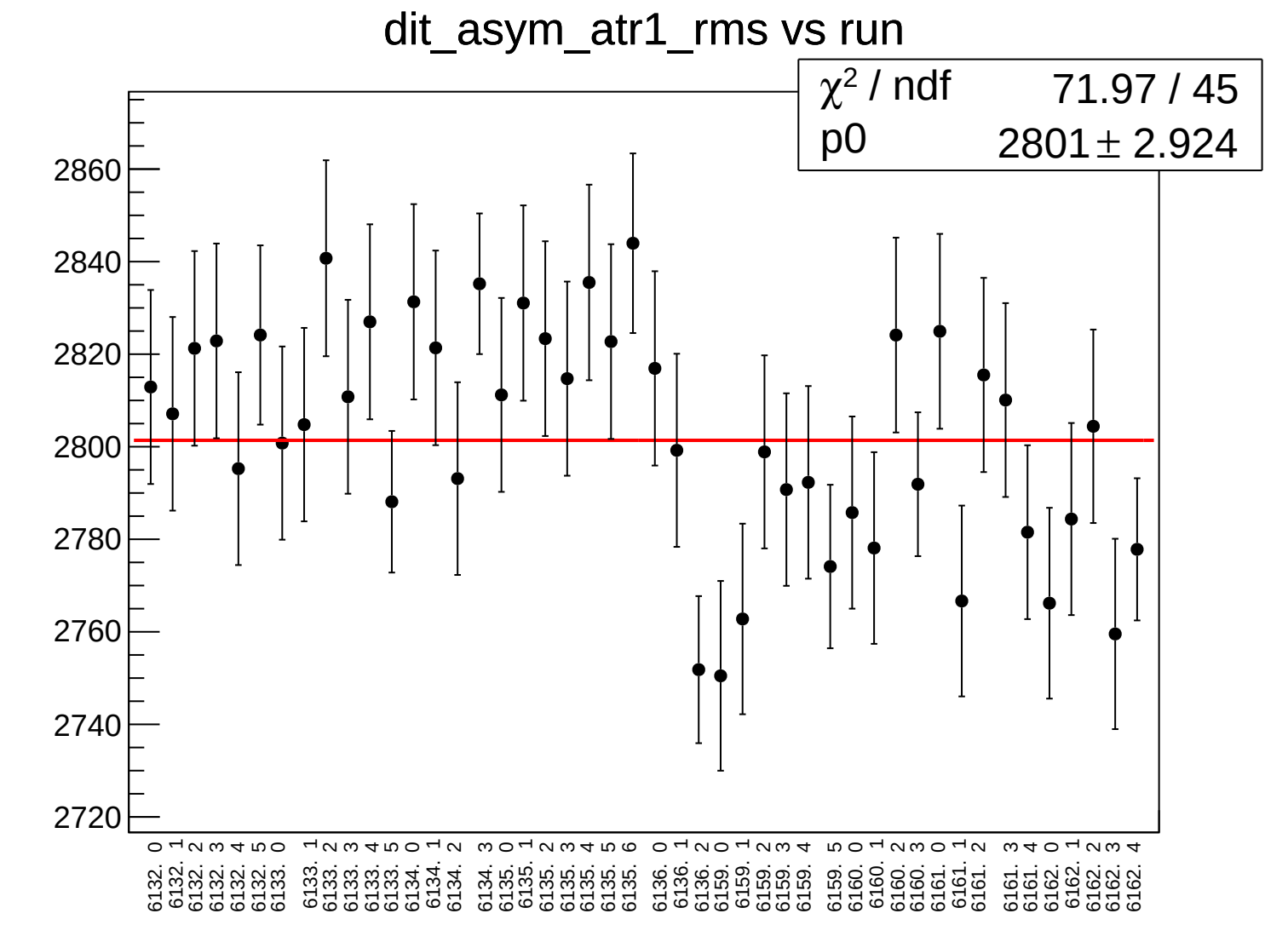
6
8


dit_asym_atr1_rms vs run
χ² / ndf 71.97 / 45
p0 2801 ± 2.924
2860
2840
2820
2800
2780
2760
2740
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6132. 0
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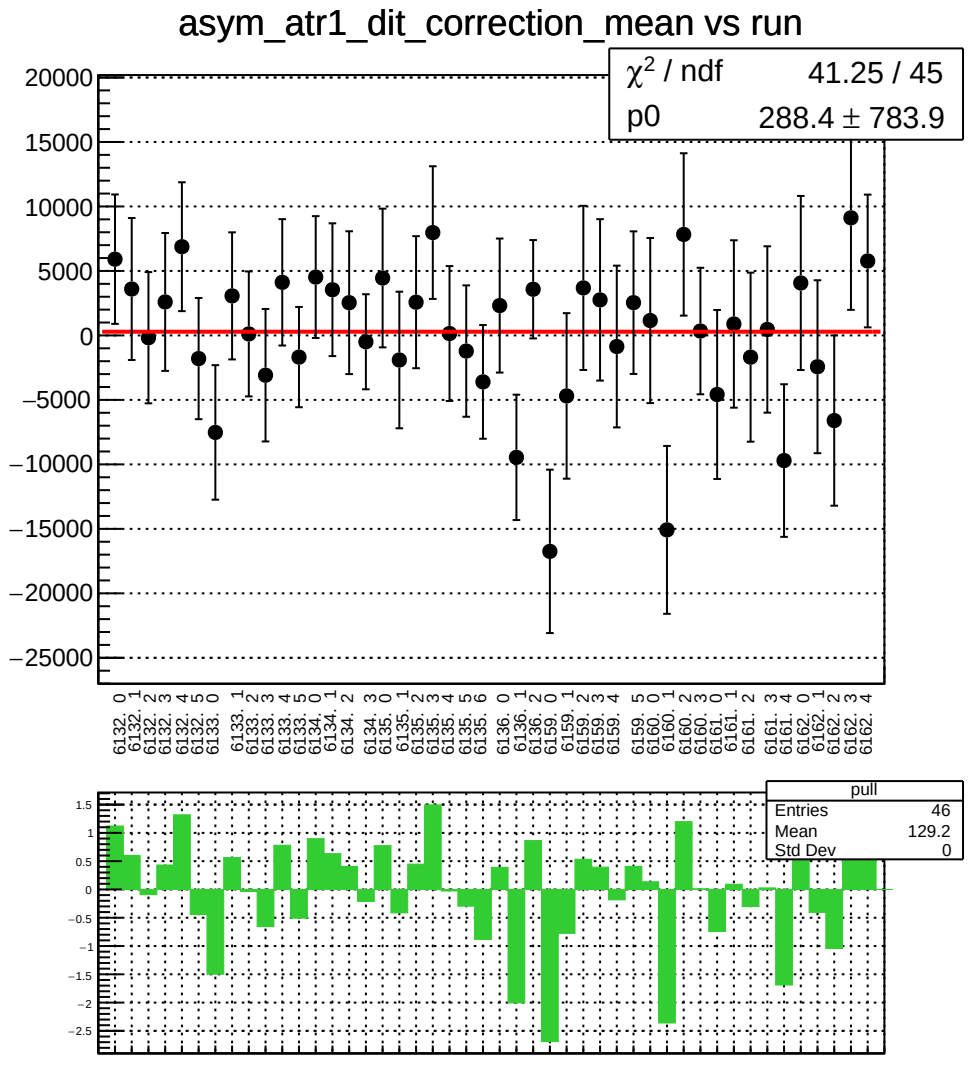
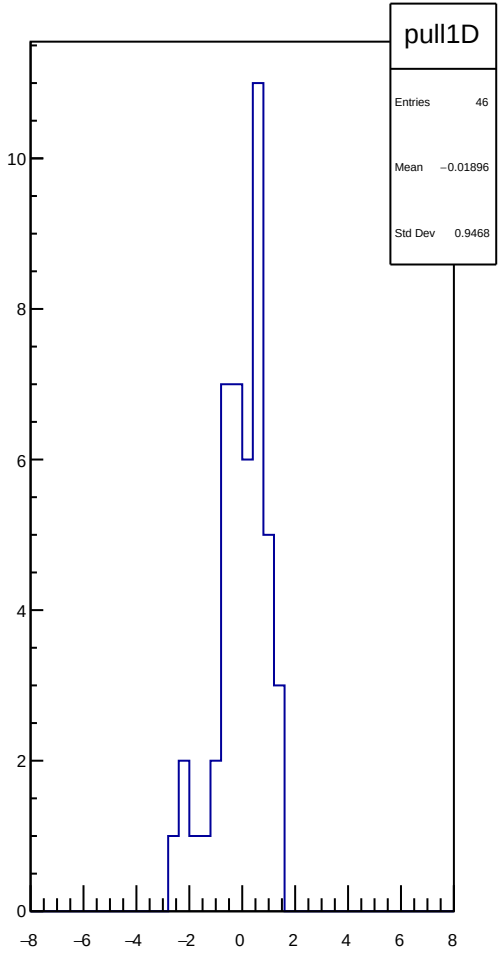

asym_atr1_dit_correction_mean vs run
χ² / ndf 41.25 / 45
p0 288.4 ± 783.9
pull
Entries 46
Mean 129.2
Std Dev 0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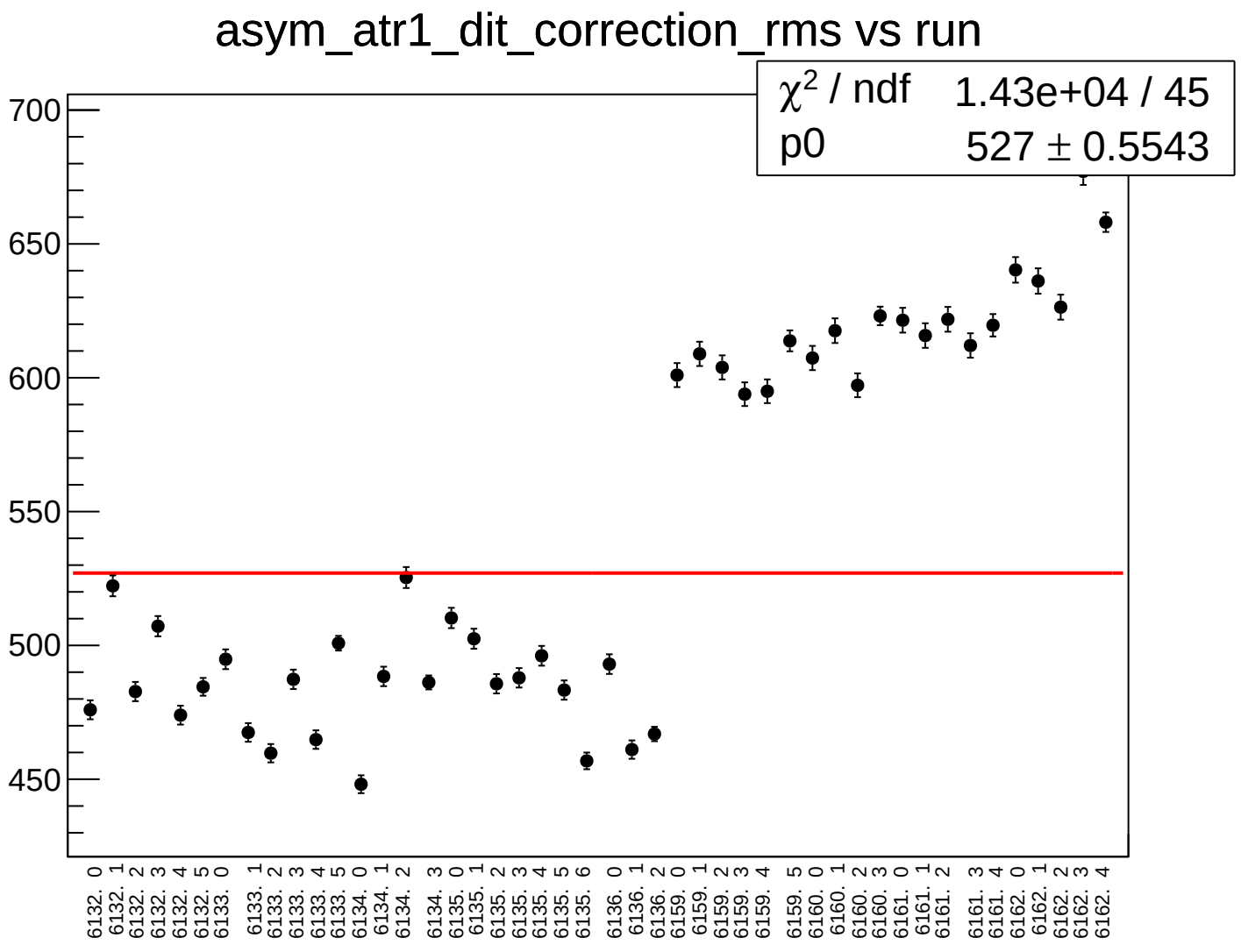
Mean −0.01896
Std Dev 0.9468


asym_atr1_dit_correction_rms vs run
χ² / ndf 1.43e+04 / 45
p0 527 ± 0.5543
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650
600
550
500
450
6132. 0
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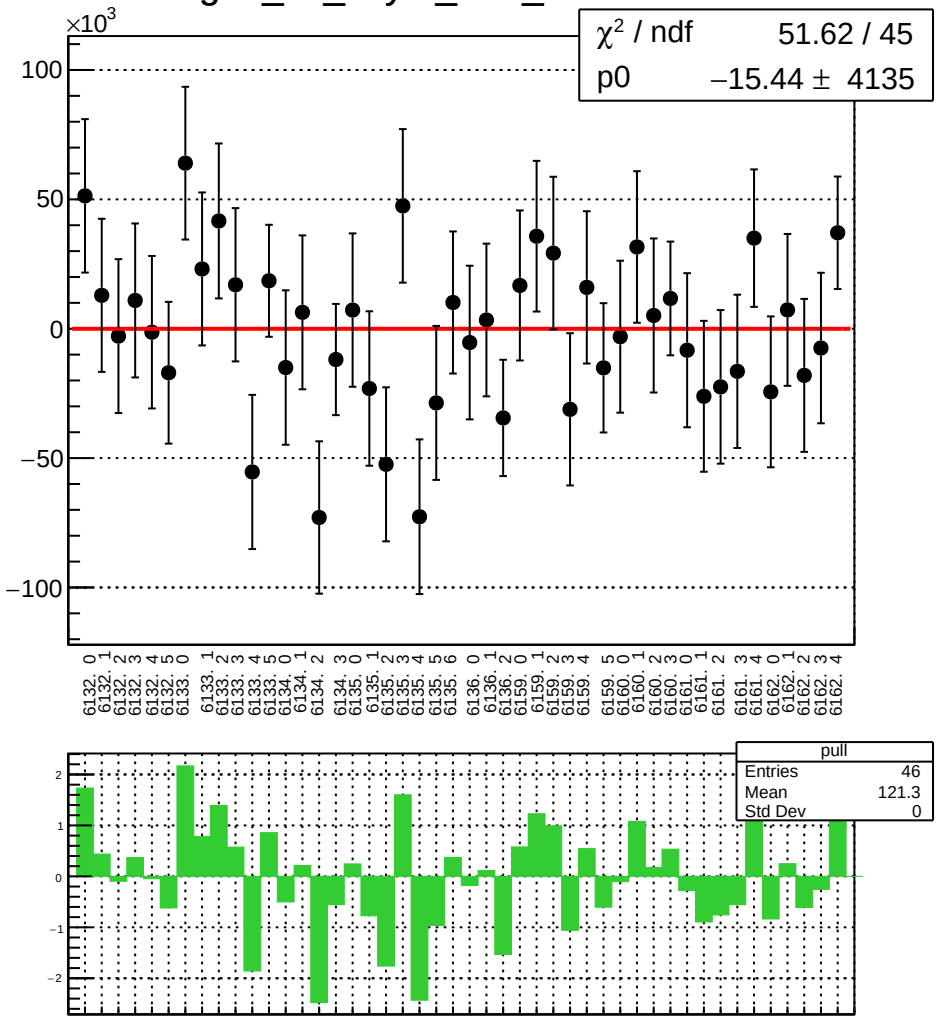
eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 51.62 / 45
p0 −15.44 ± 4135
100
50
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−50
−100
6132. 0
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6132. 2
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6132. 4
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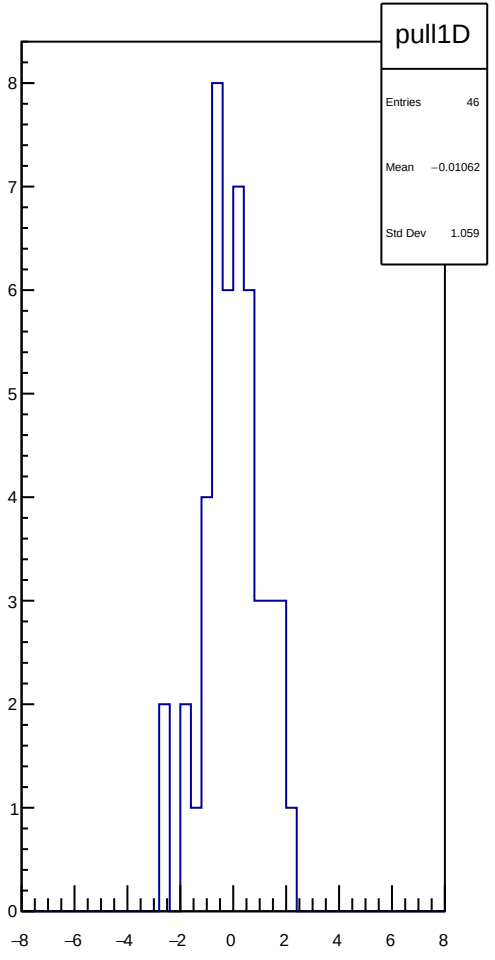
pull
Entries 46
Mean 121.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.01062
Std Dev 1.059
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−4
−2
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2
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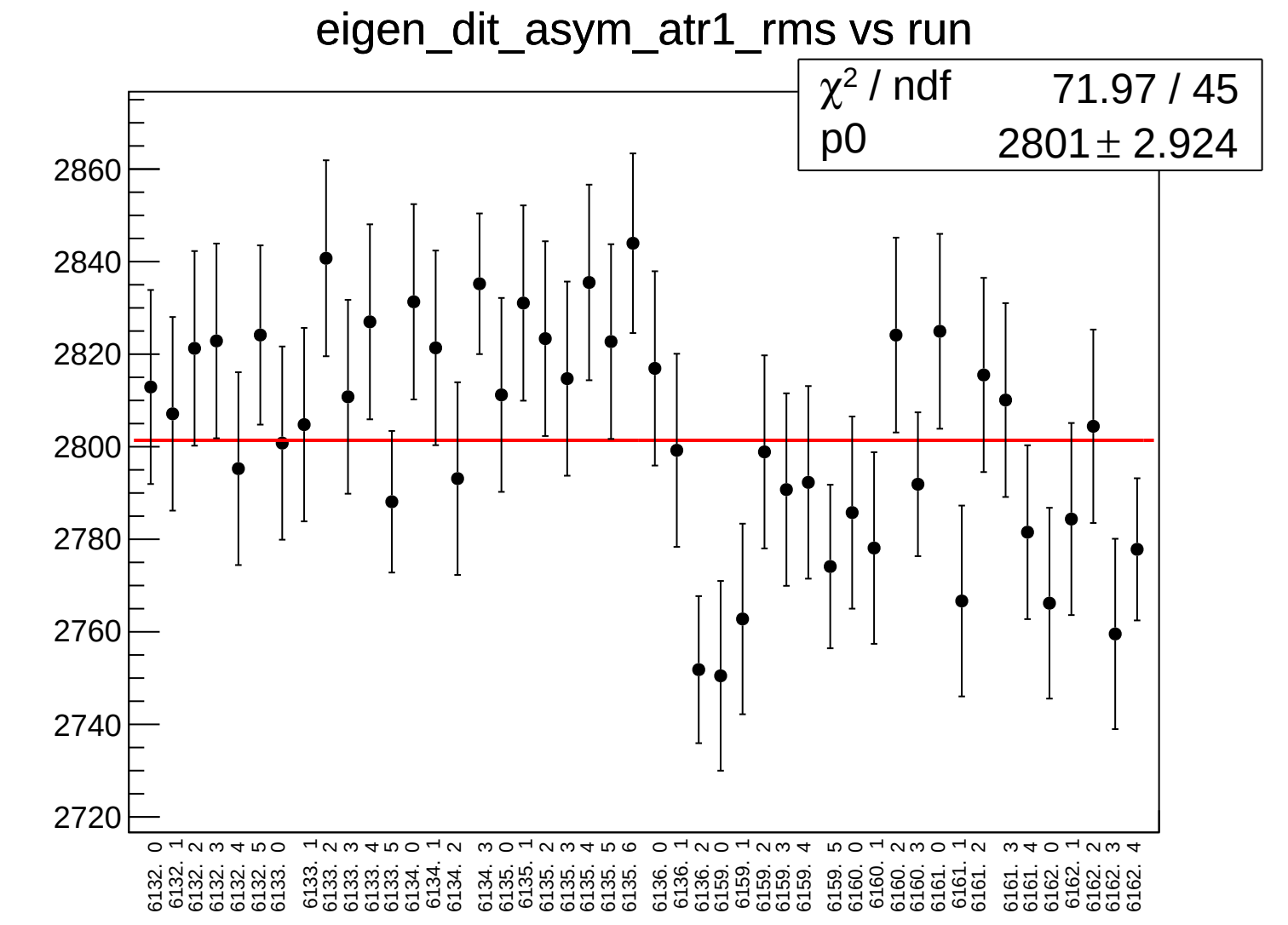
eigen_dit_asym_atr1_rms vs run
χ² / ndf 71.97 / 45
p0 2801 ± 2.924
2860
2840
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2800
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2740
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6132. 0
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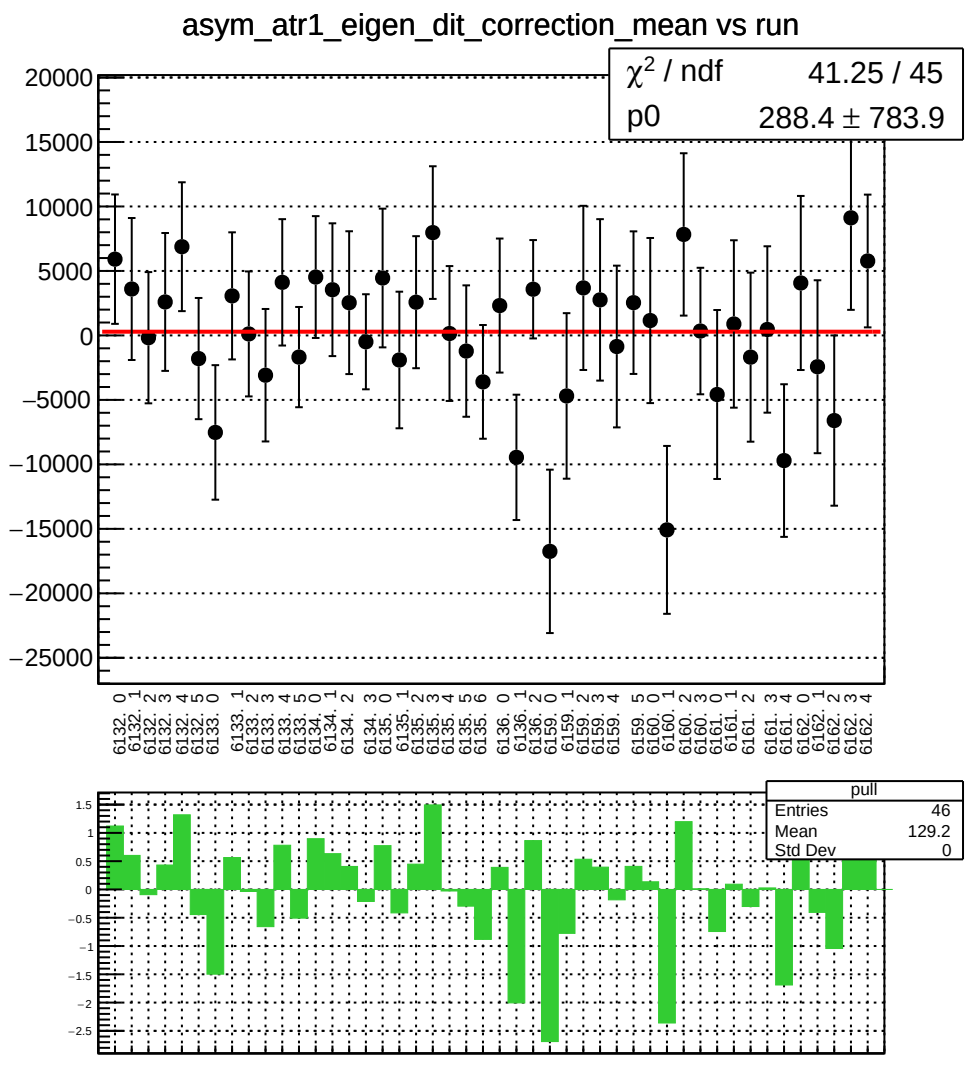
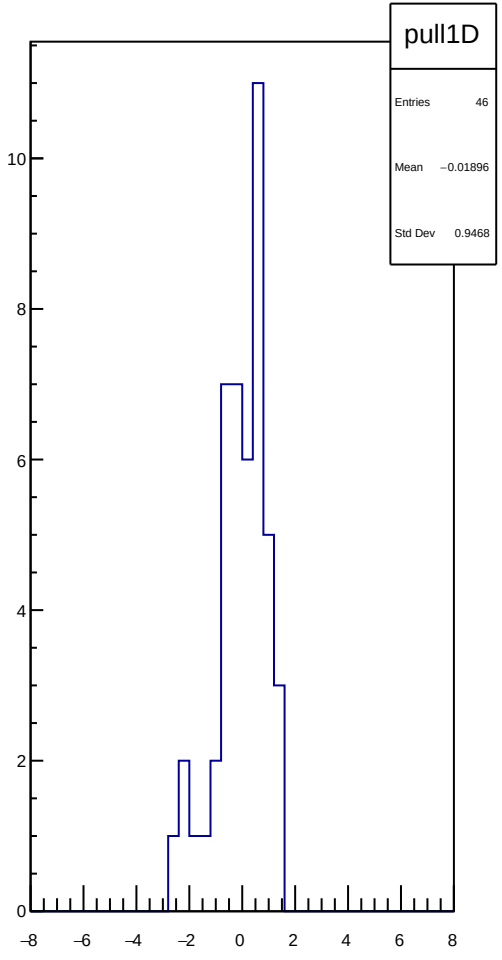
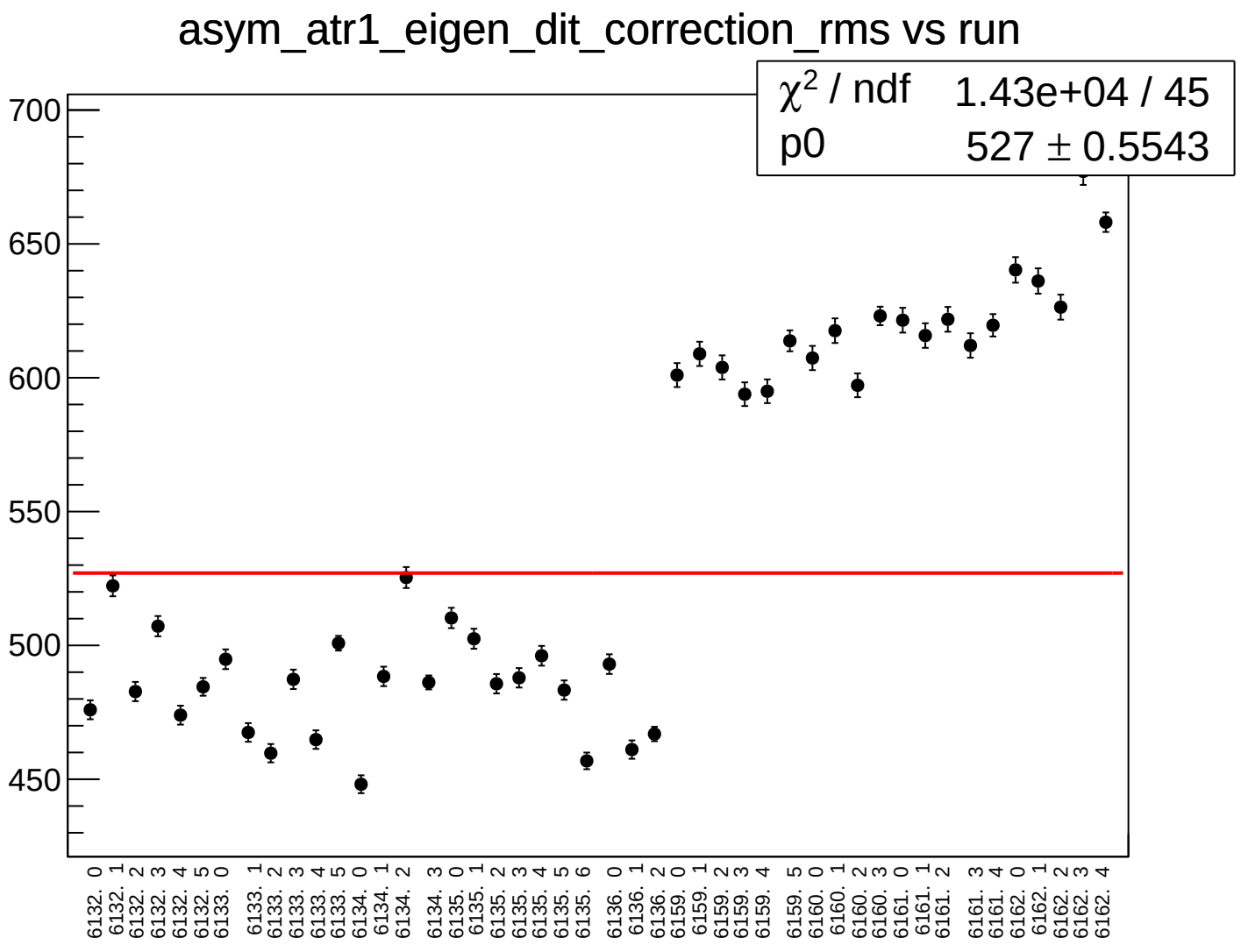
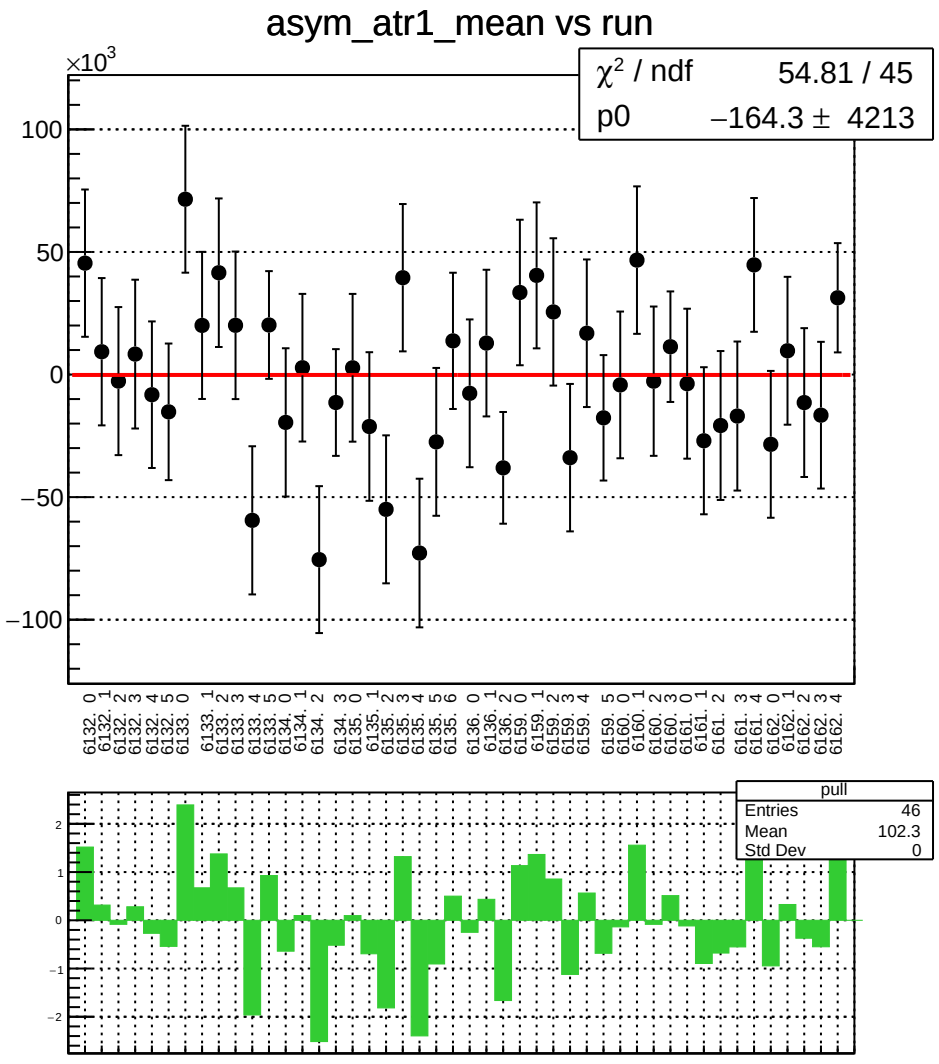
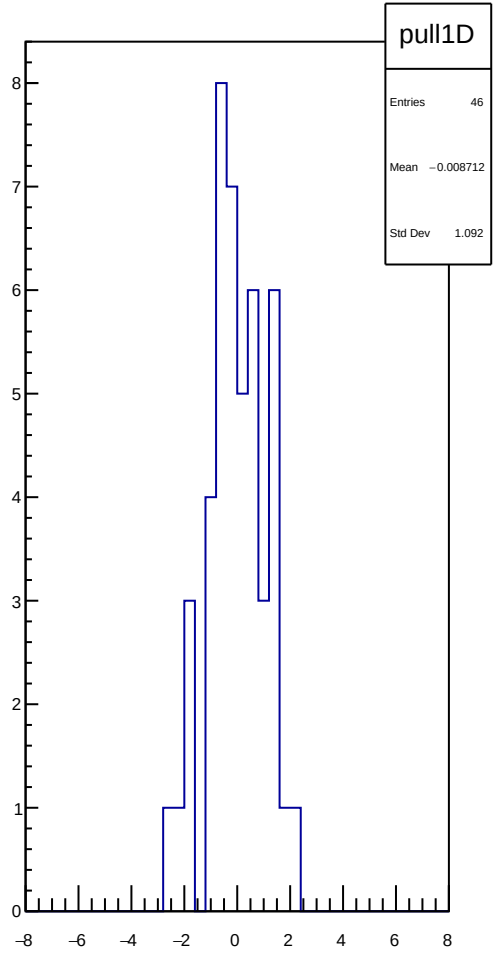
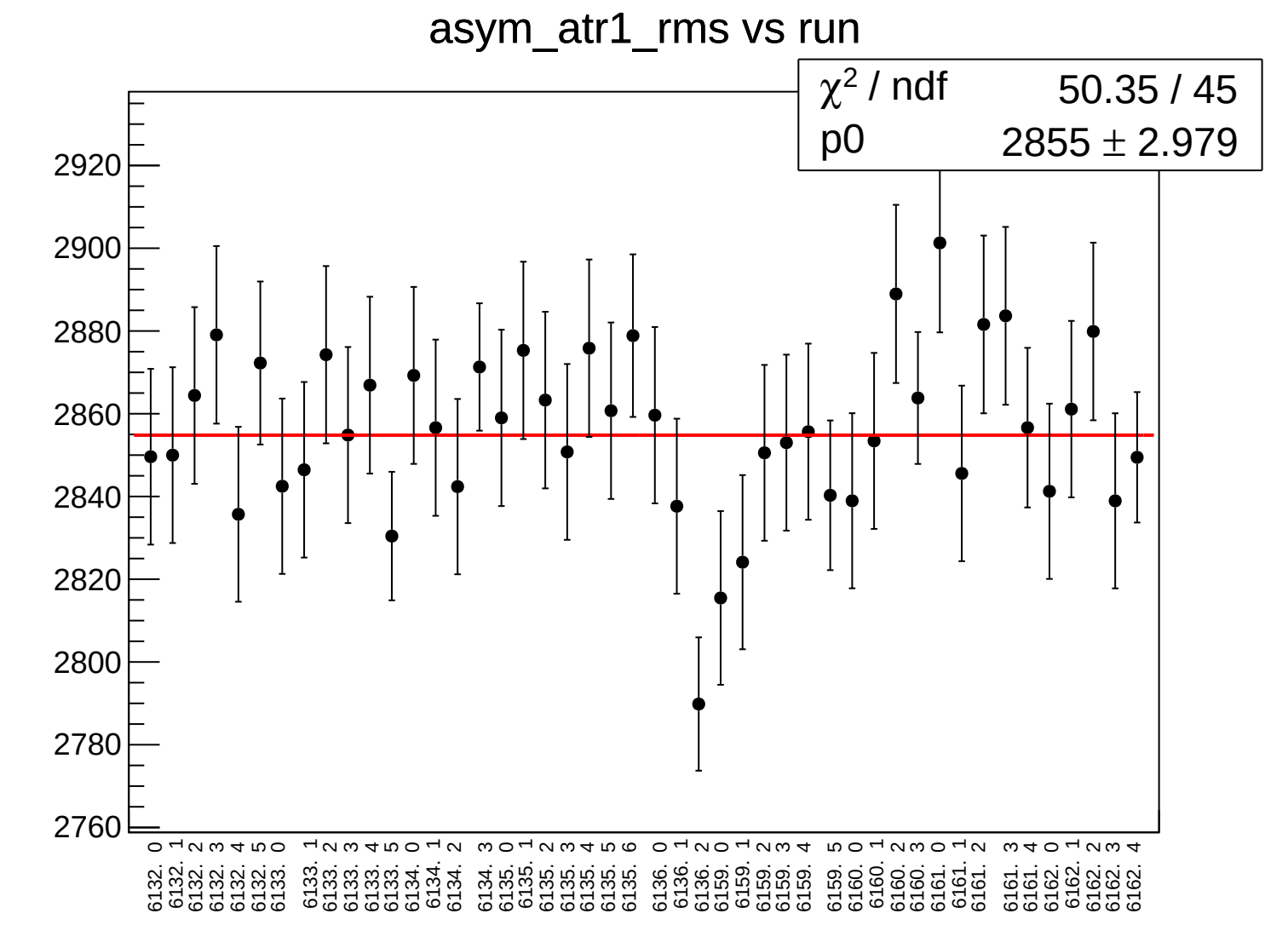

asym_atr1_eigen_dit_correction_mean vs run
χ^2 / ndf 41.25 / 45
p0 288.4 ± 783.9
pull
Entries 46
Mean 129.2
Std Dev 0

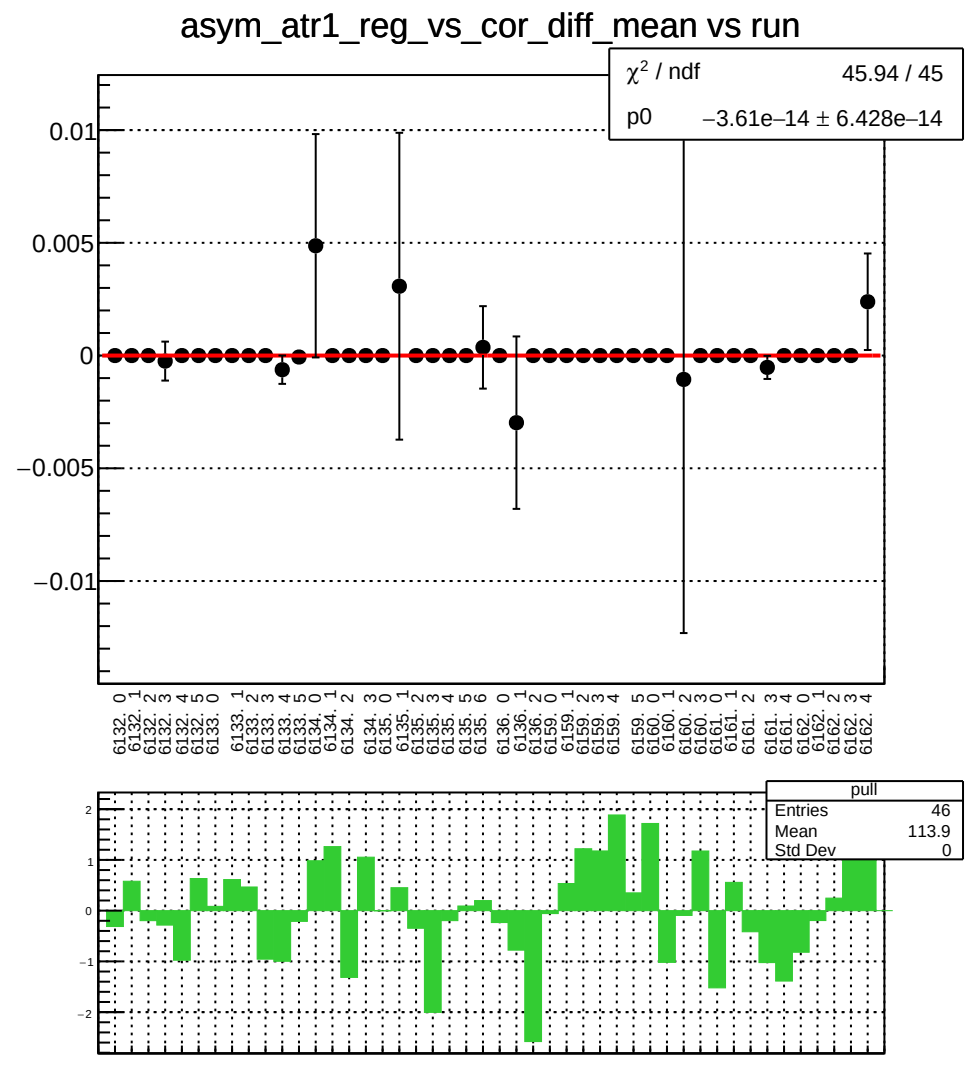

pull1D
Entries 46
Mean −0.01896
Std Dev 0.9468

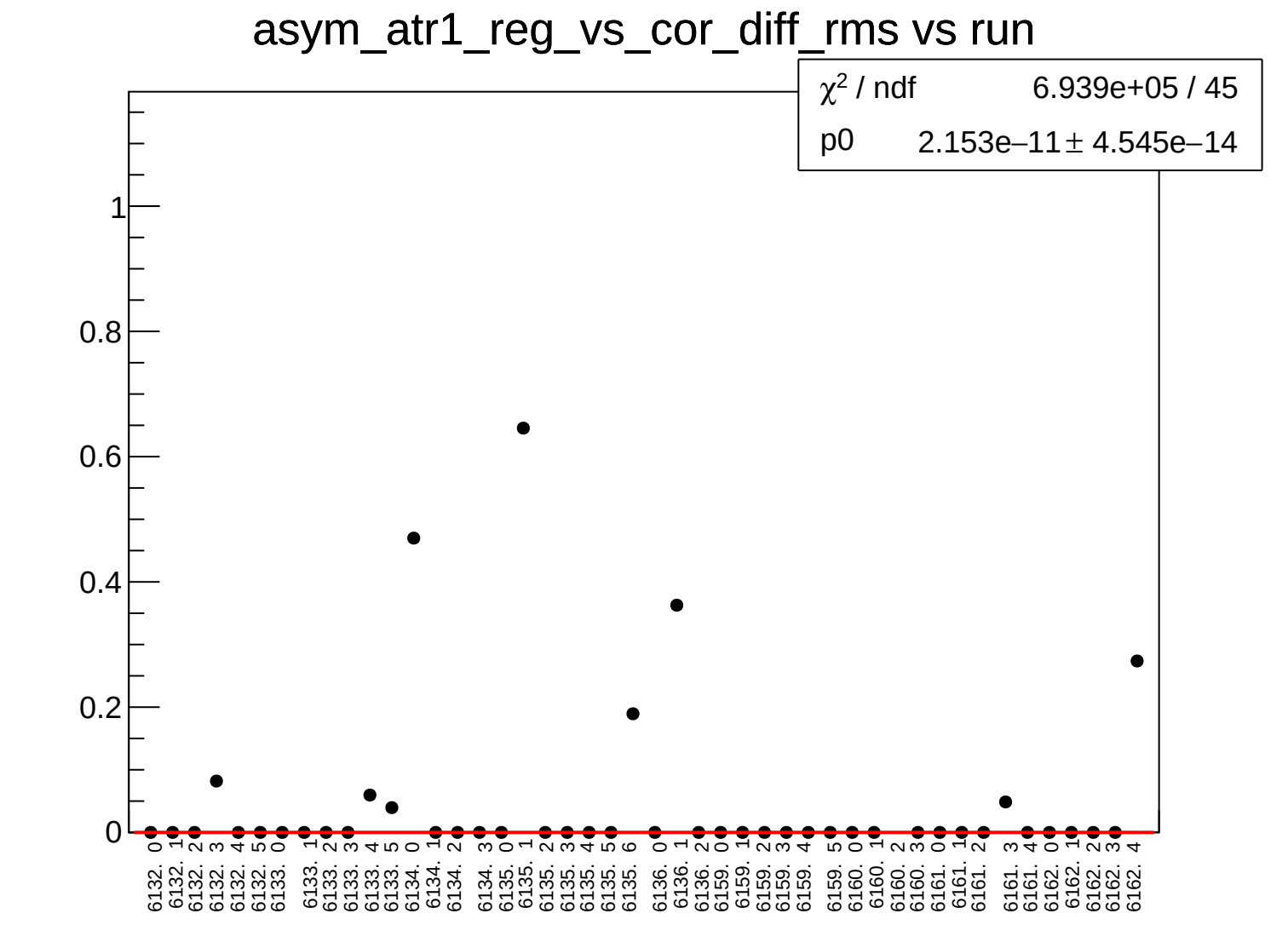

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 1.43e+04 / 45
p0 527 ± 0.5543
700
650
600
550
500
450
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

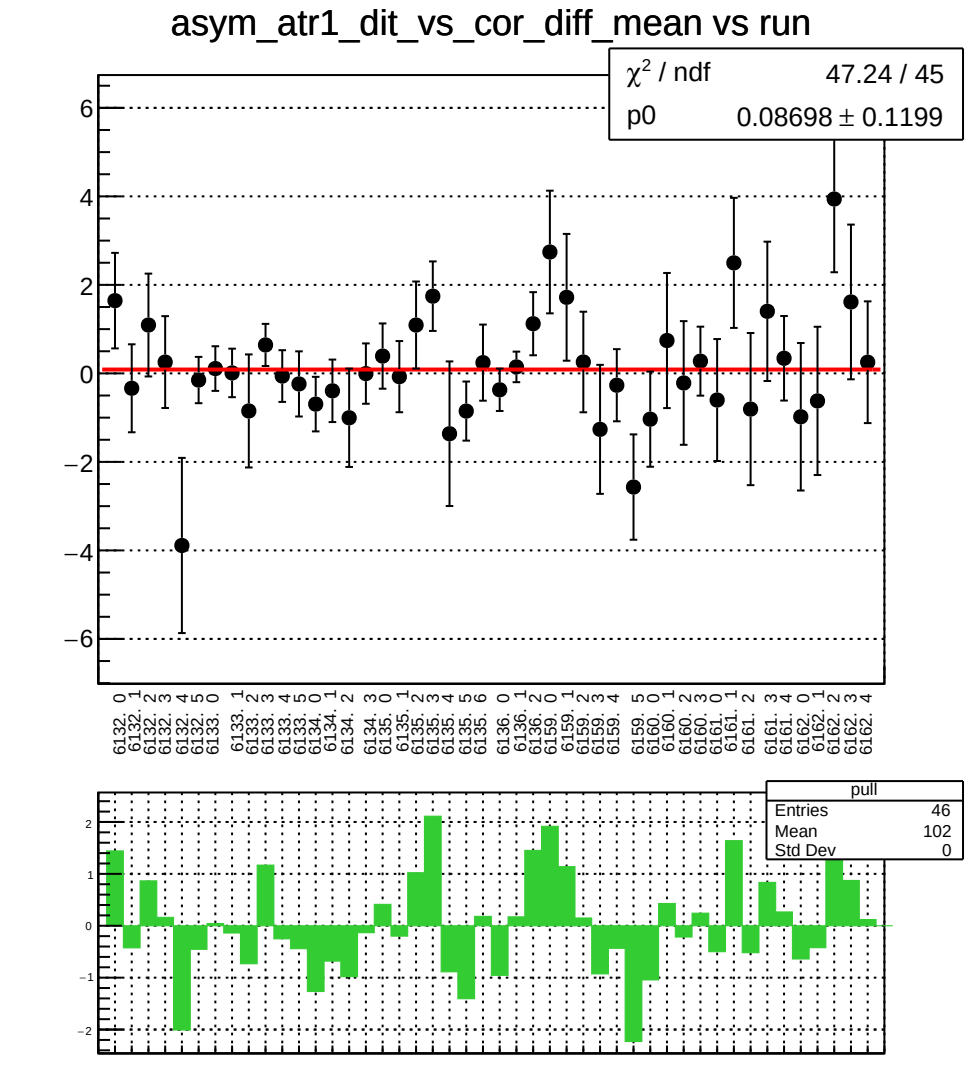

asym_atr1_mean vs run
×10^3
χ² / ndf 54.81 / 45
p0 −164.3 ± 4213
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 102.3
Std Dev 0
2
1
0
−1
−2

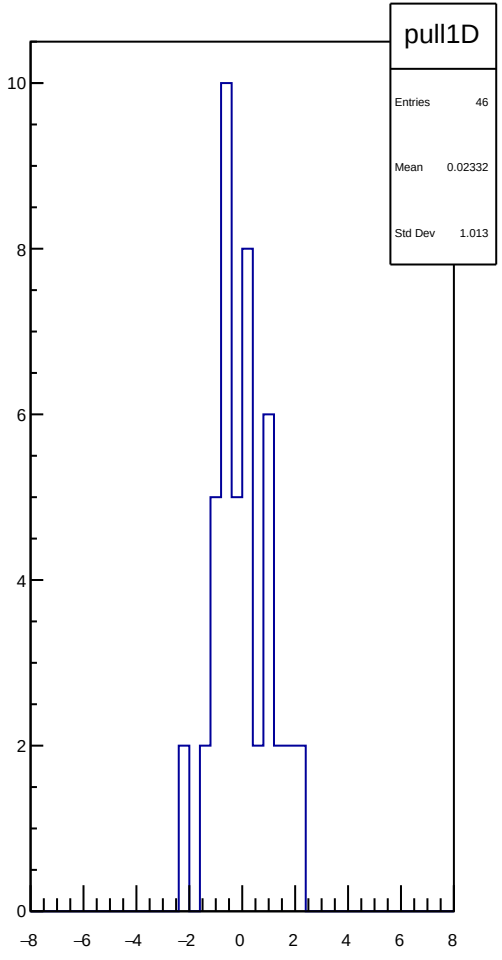

pull1D
Entries 46
Mean −0.008712
Std Dev 1.092
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

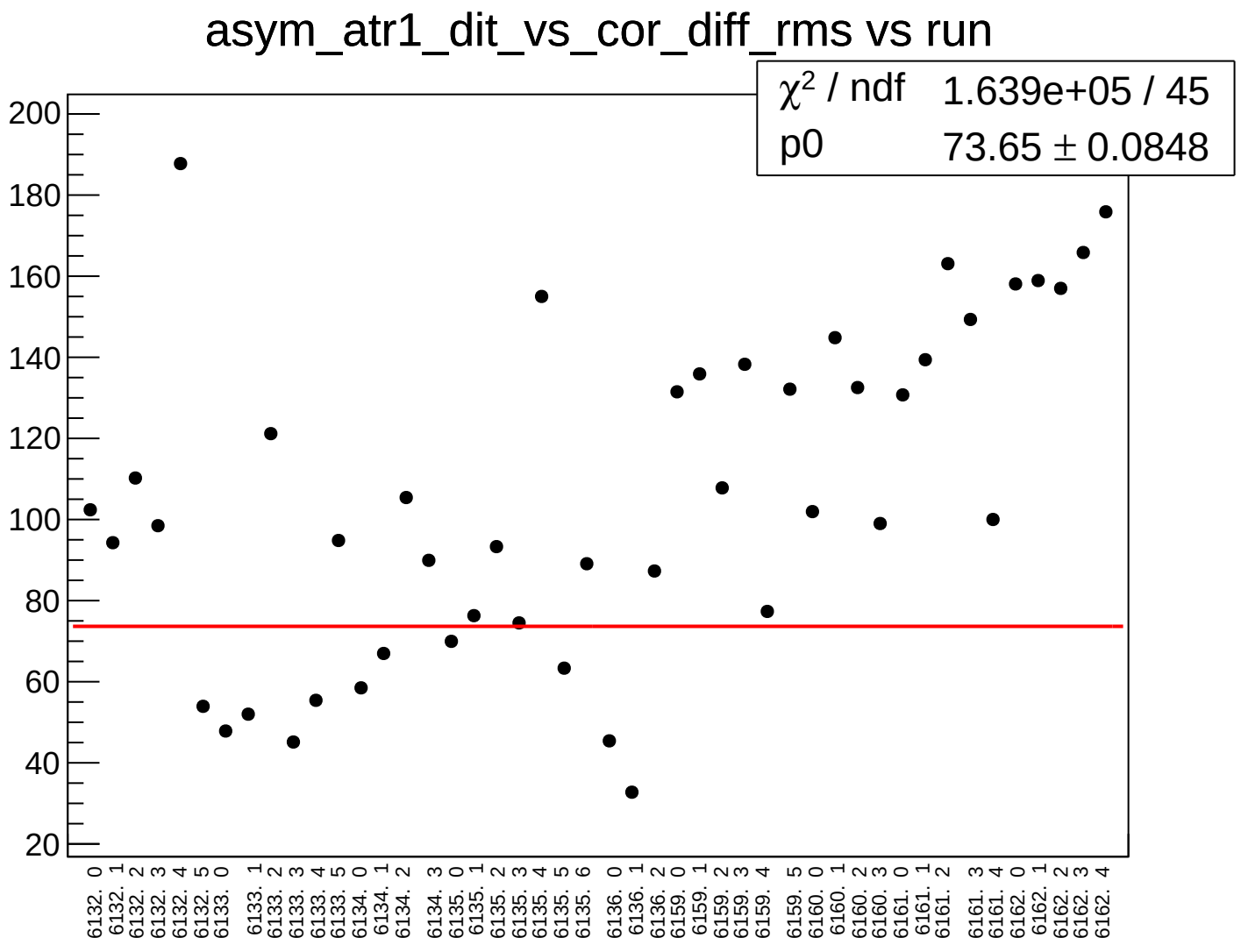

asym_atr1_rms vs run
χ² / ndf 50.35 / 45
p0 2855 ± 2.979
2920
2900
2880
2860
2840
2820
2800
2780
2760
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

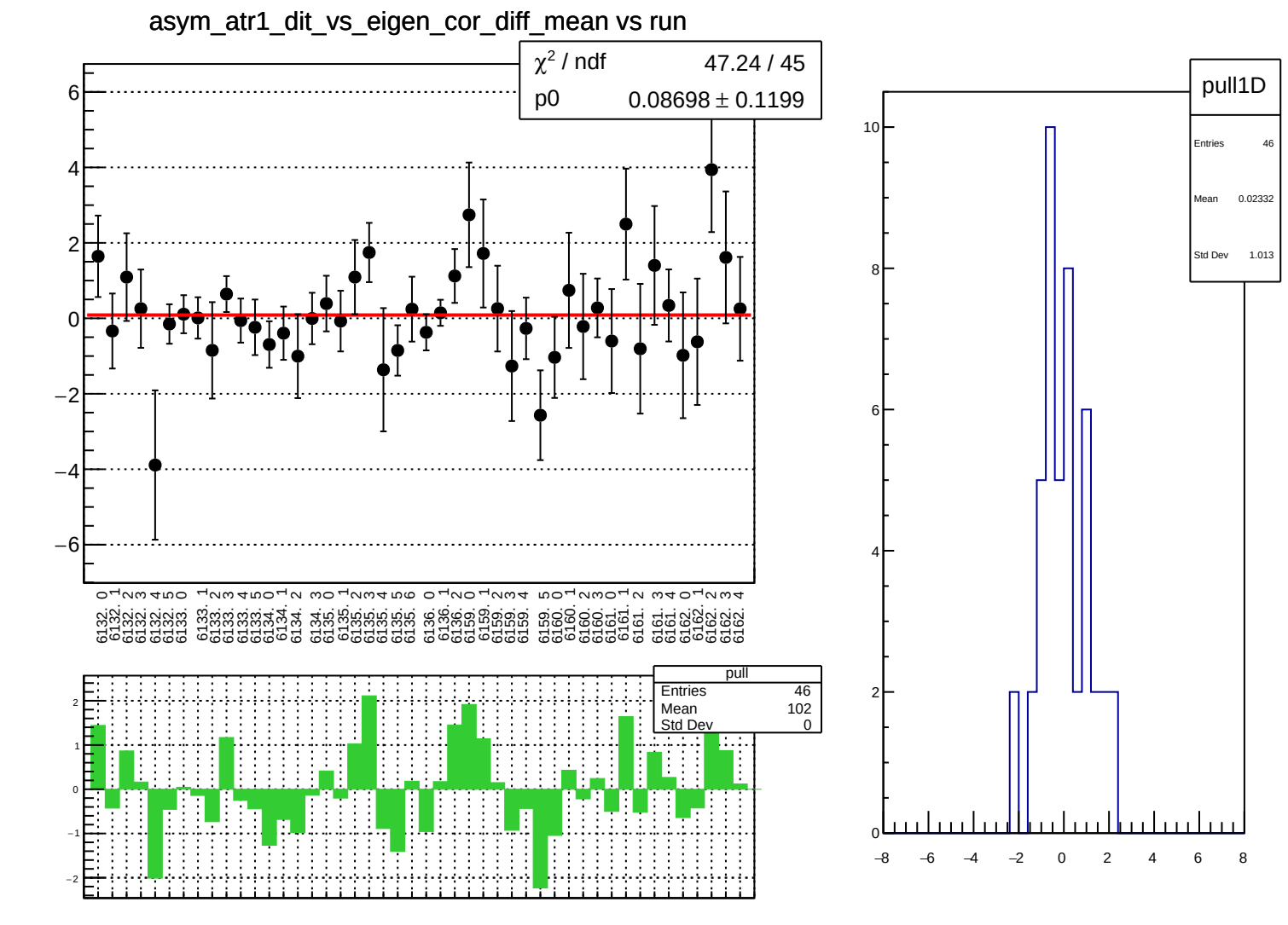

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 45.94 / 45
p0 −3.61e−14 ± 6.428e−14
0.01
0.005
0
−0.005
−0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 113.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.01189
Std Dev 0.9993
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

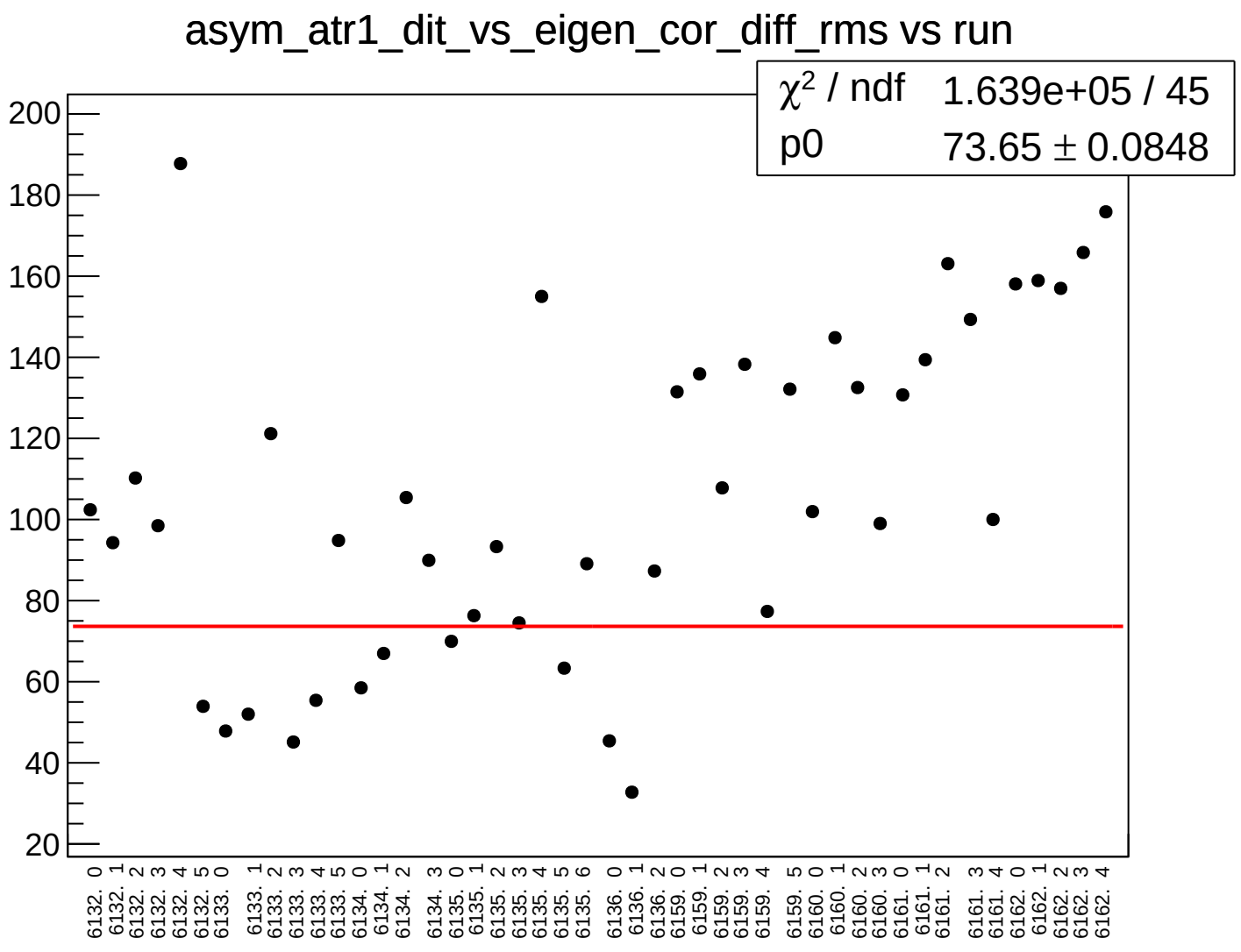

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 6.939e+05 / 45
p0 2.153e−11 ± 4.545e−14
1
0.8
0.6
0.4
0.2
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

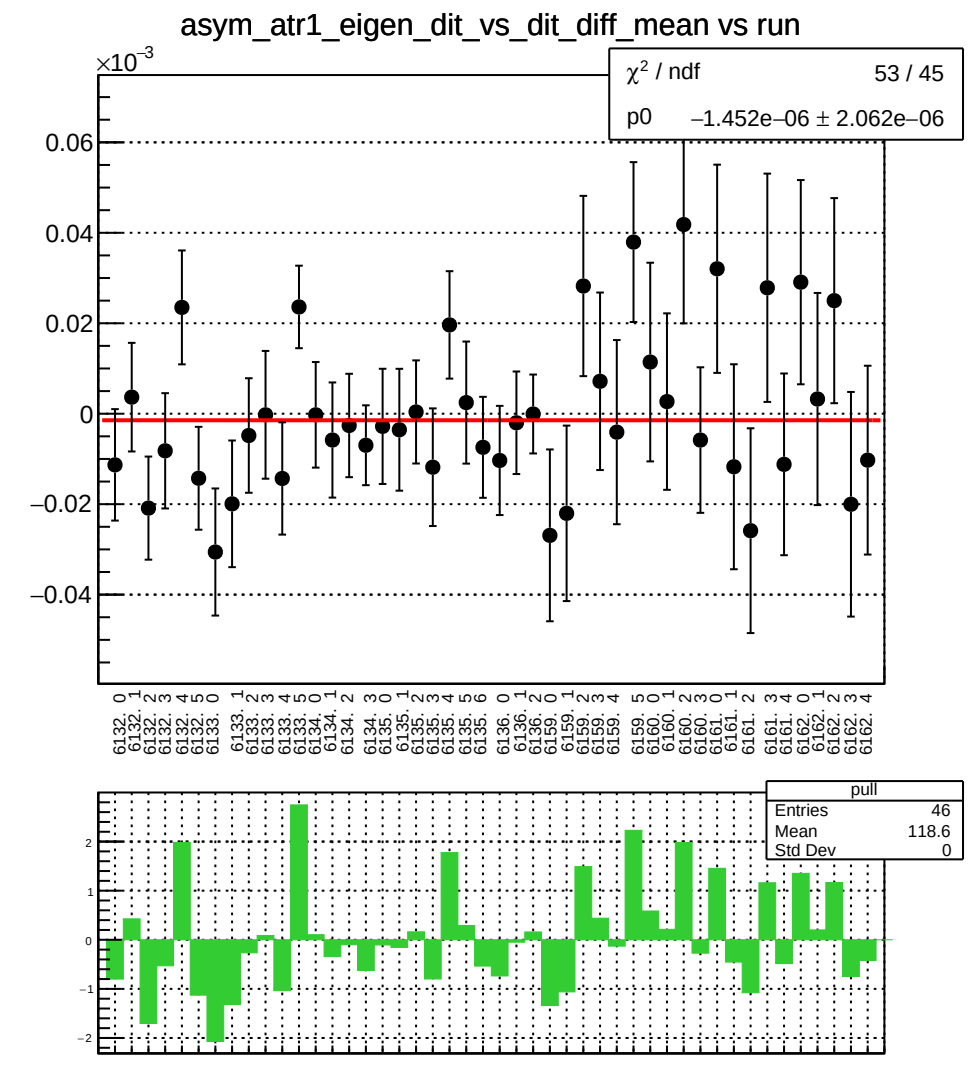

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 47.24 / 45
p0 0.08698 ± 0.1199
pull
Entries 46
Mean 102
Std Dev 0

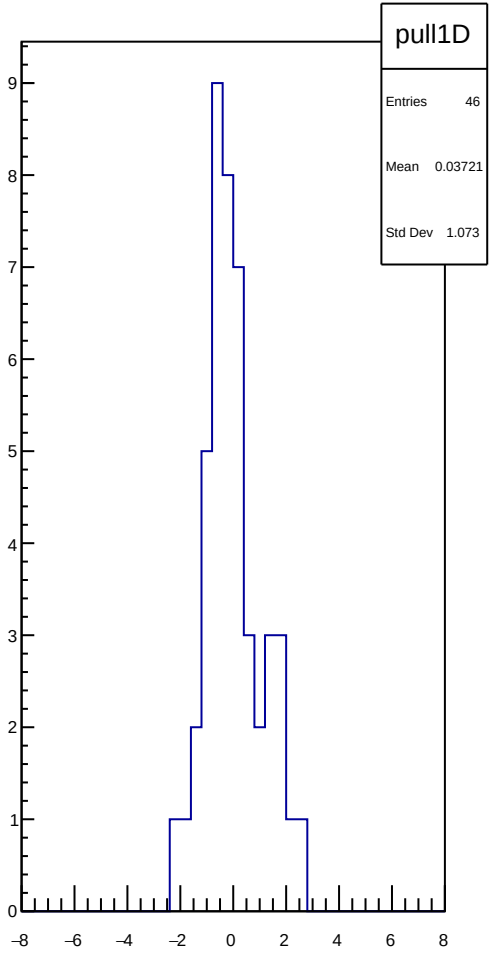

pull1D
Entries 46
Mean 0.02332
Std Dev 1.013

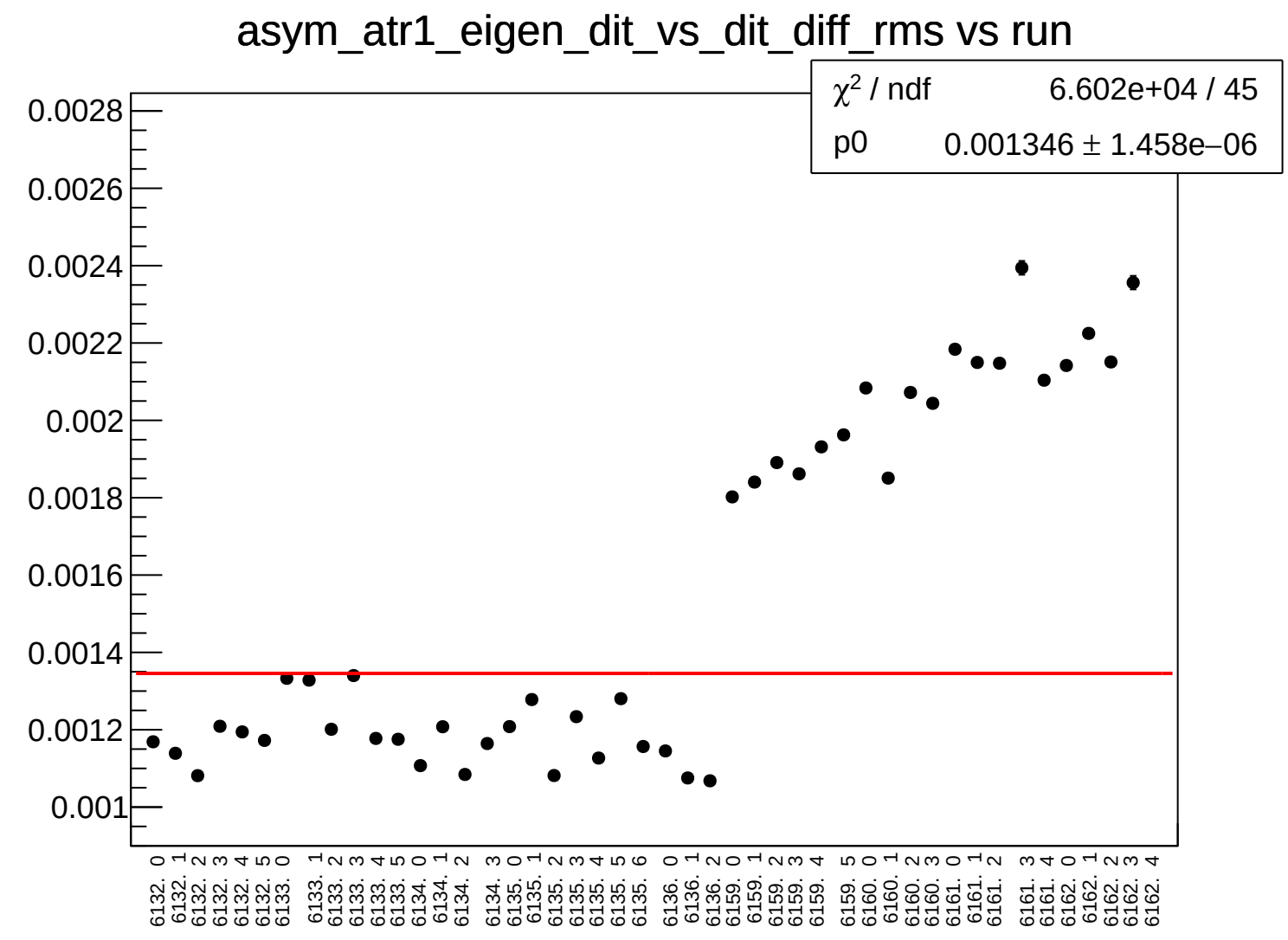

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.639e+05 / 45
p0 73.65 ± 0.0848
200
180
160
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

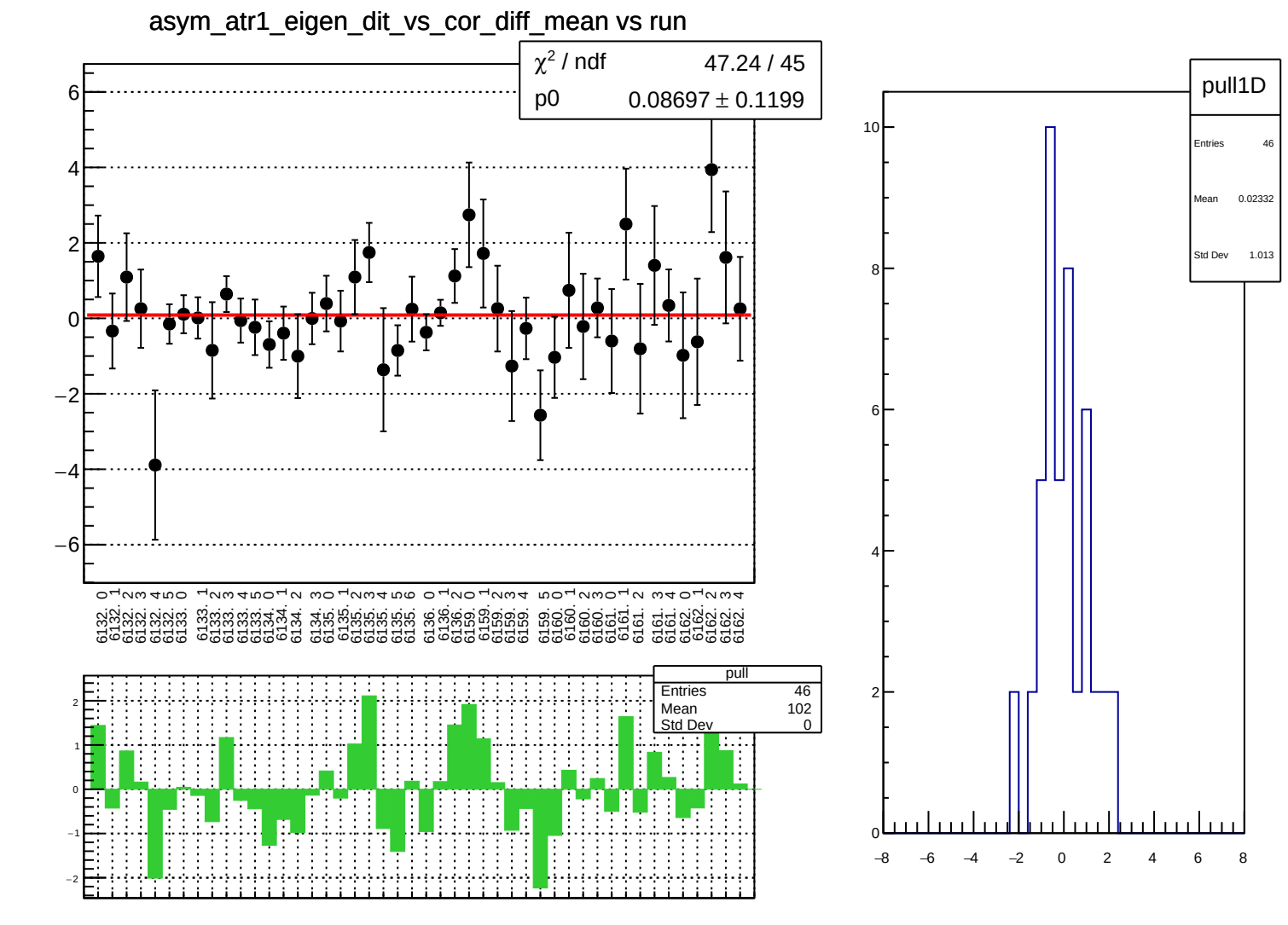

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.24 / 45
p0 0.08698 ± 0.1199
pull
Entries 46
Mean 102
Std Dev 0
pull1D
Entries 46
Mean 0.02332
Std Dev 1.013

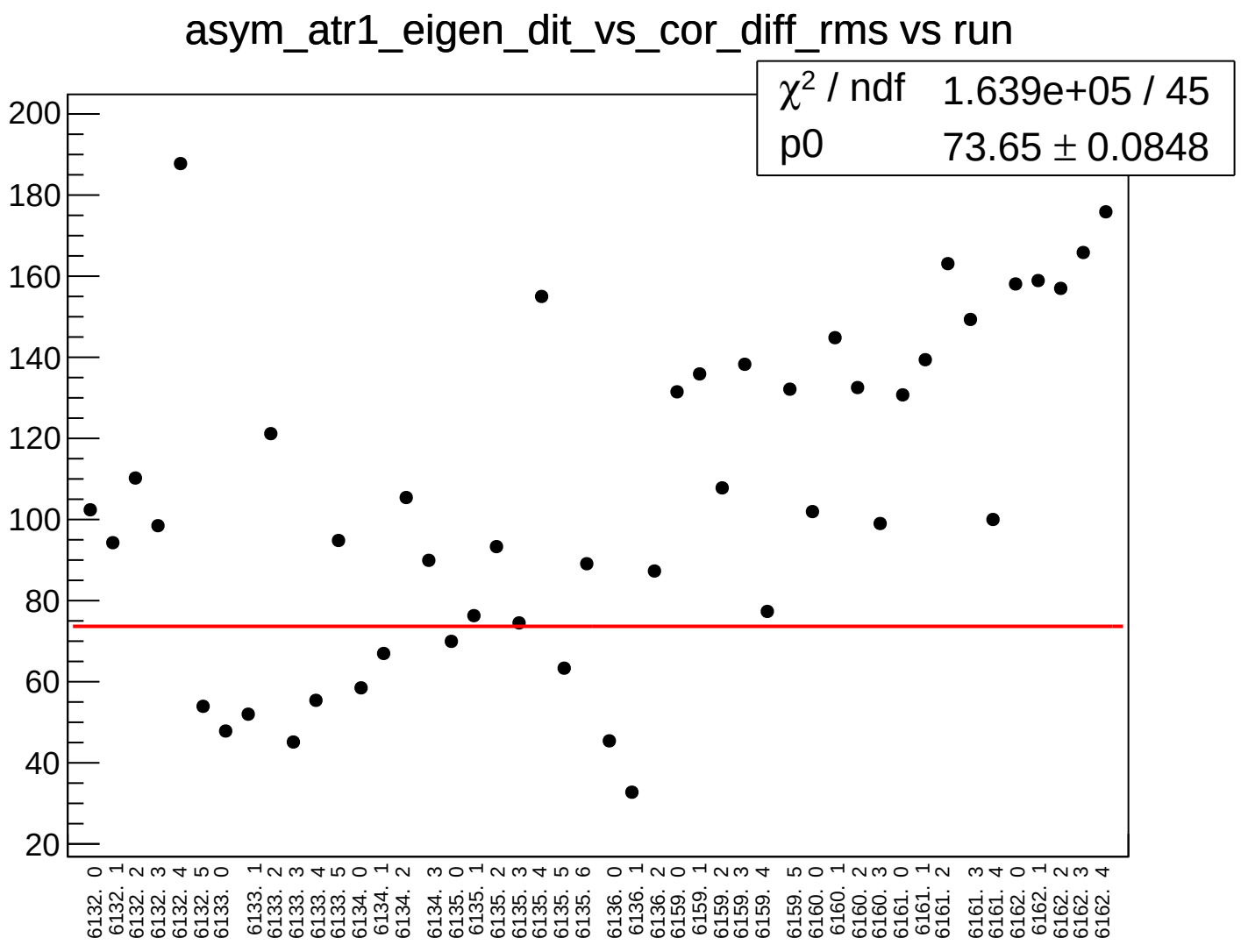

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.639e+05 / 45
p0 73.65 ± 0.0848
200
180
160
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

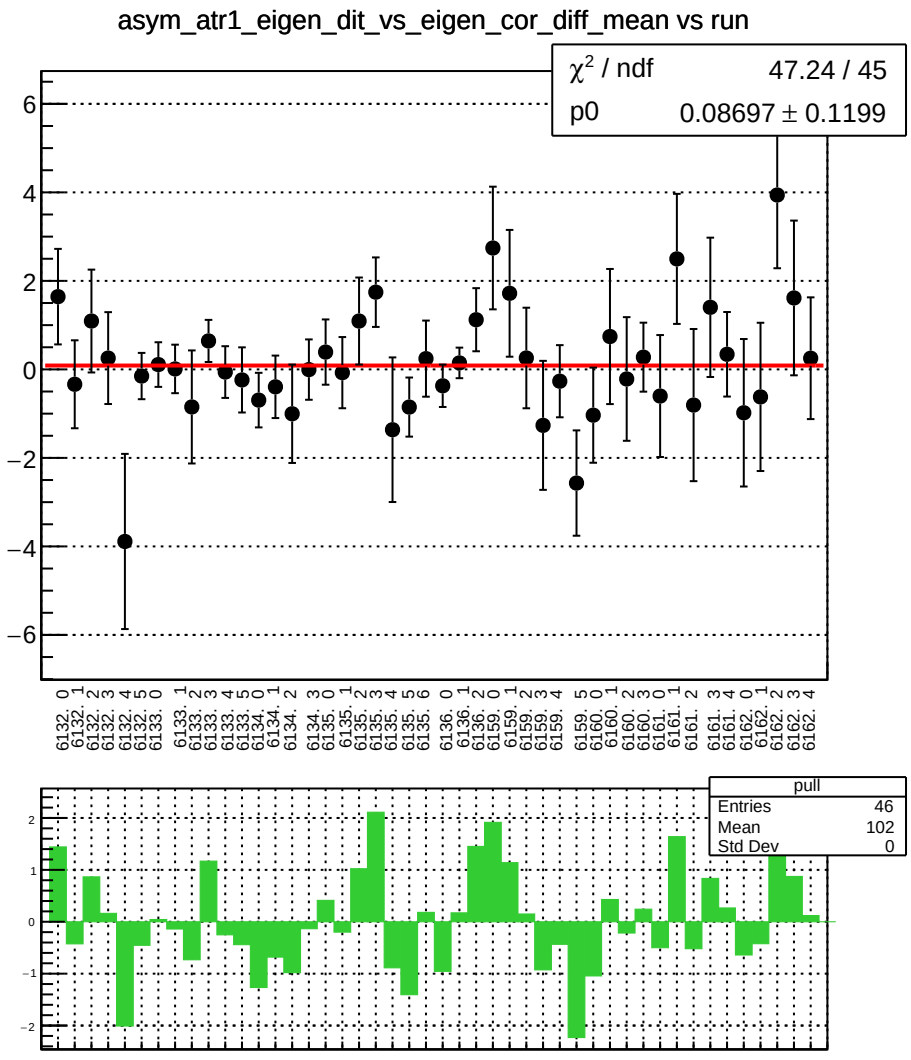

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 53 / 45
p0 −1.452e−06 ± 2.062e−06
0.06
0.04
0.02
0
−0.02
−0.04
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 118.6
Std Dev 0
2
1
0
−1
−2

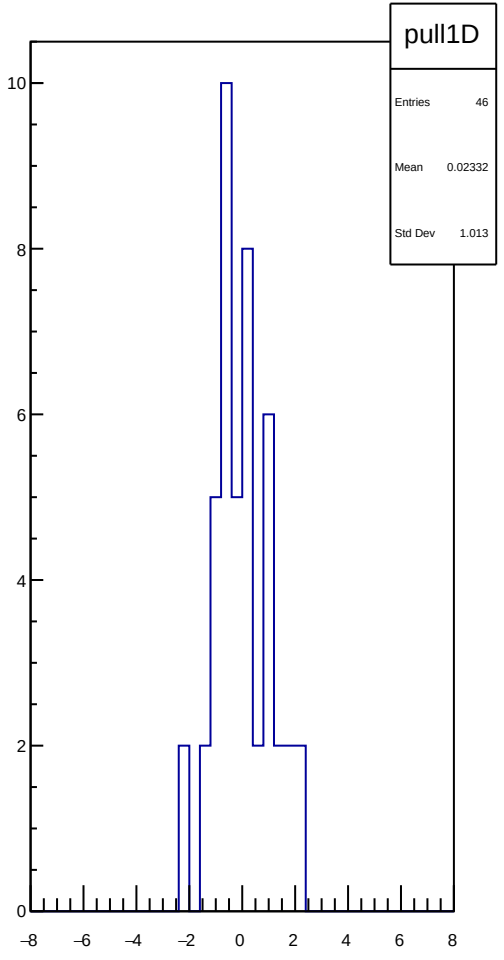

pull1D
Entries 46
Mean 0.03721
Std Dev 1.073
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

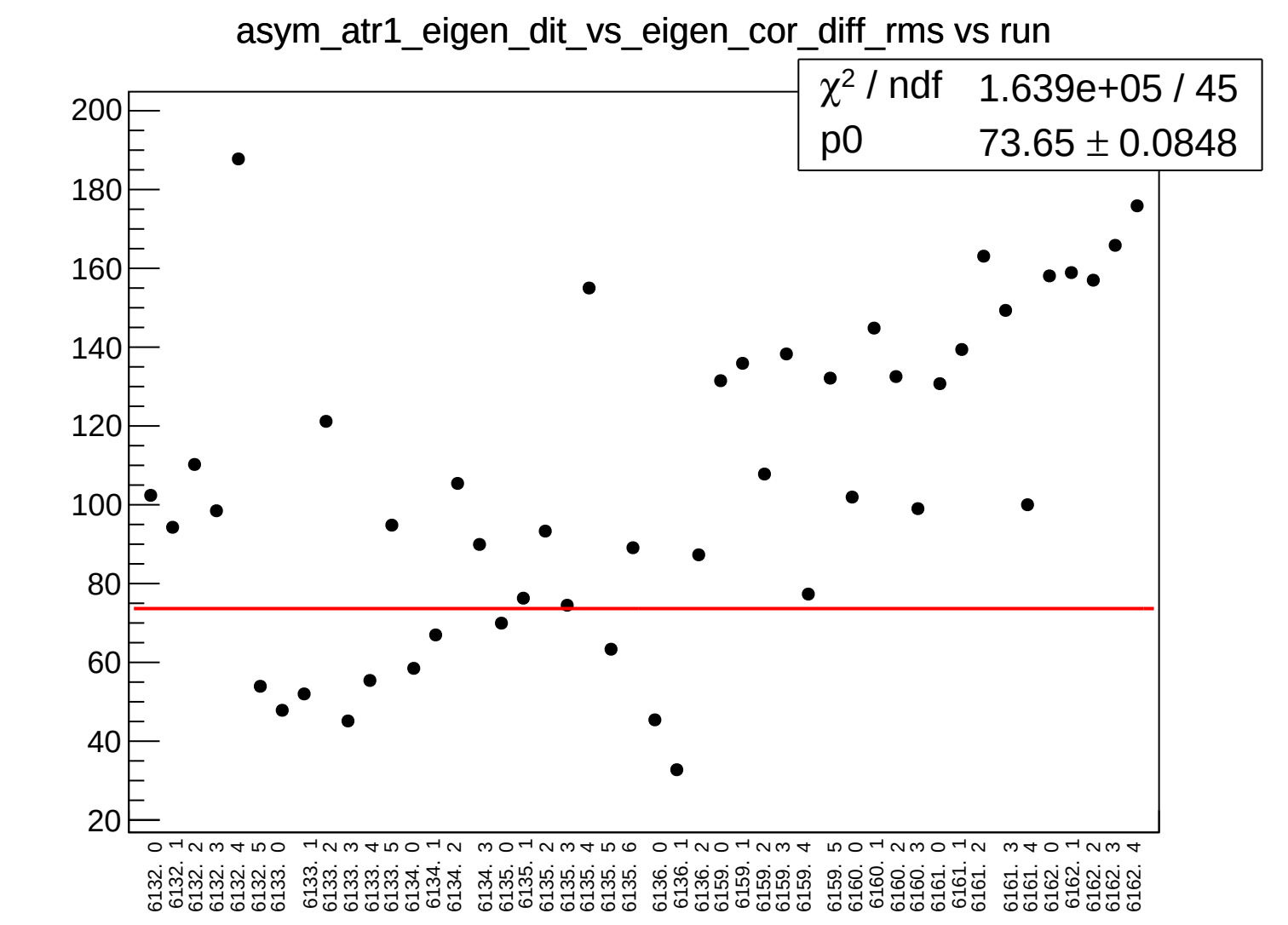

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.602e+04 / 45
p0 0.001346 ± 1.458e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

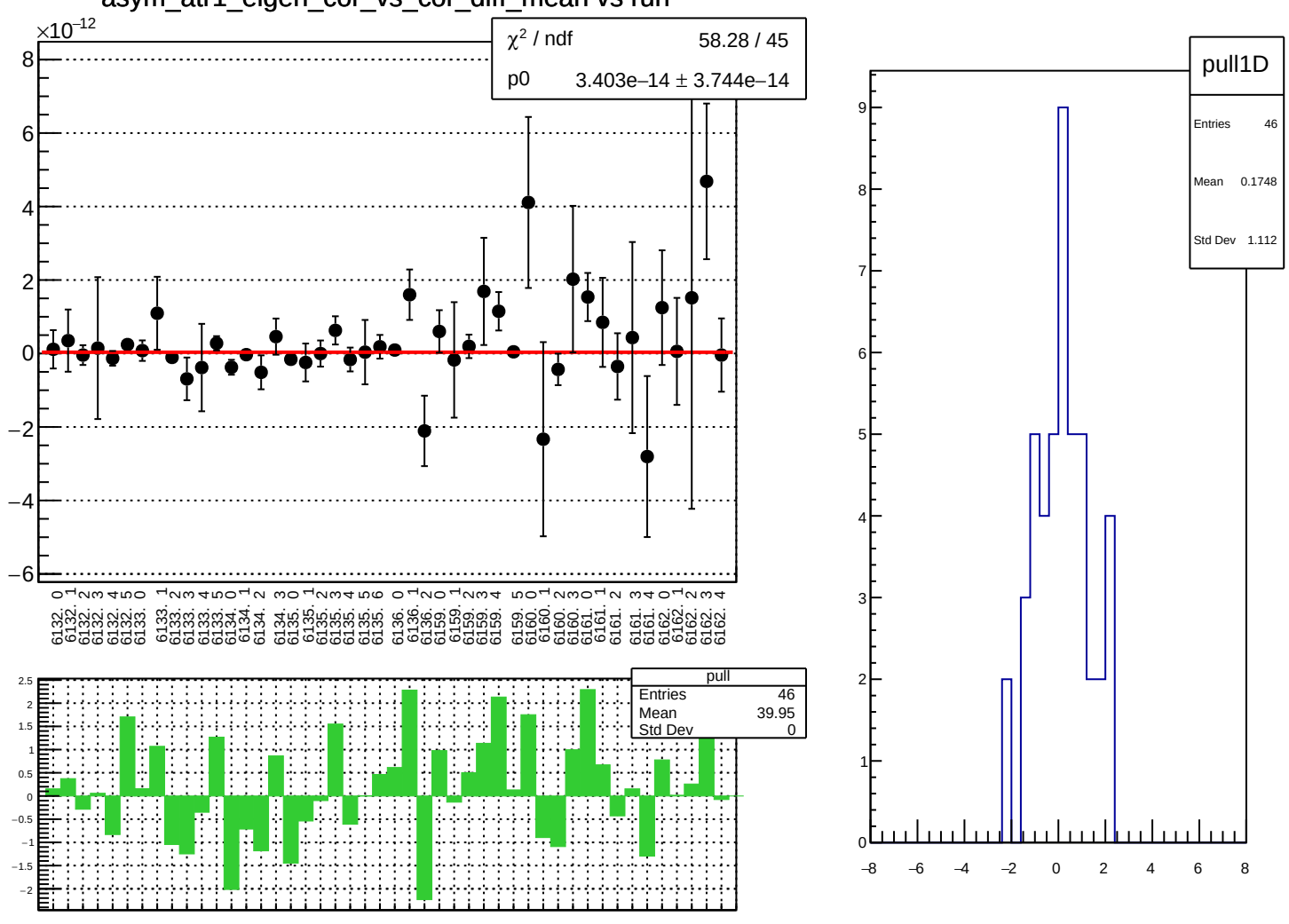

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 47.24 / 45
p0 0.08697 ± 0.1199
pull
Entries 46
Mean 102
Std Dev 0
pull1D
Entries 46
Mean 0.02332
Std Dev 1.013

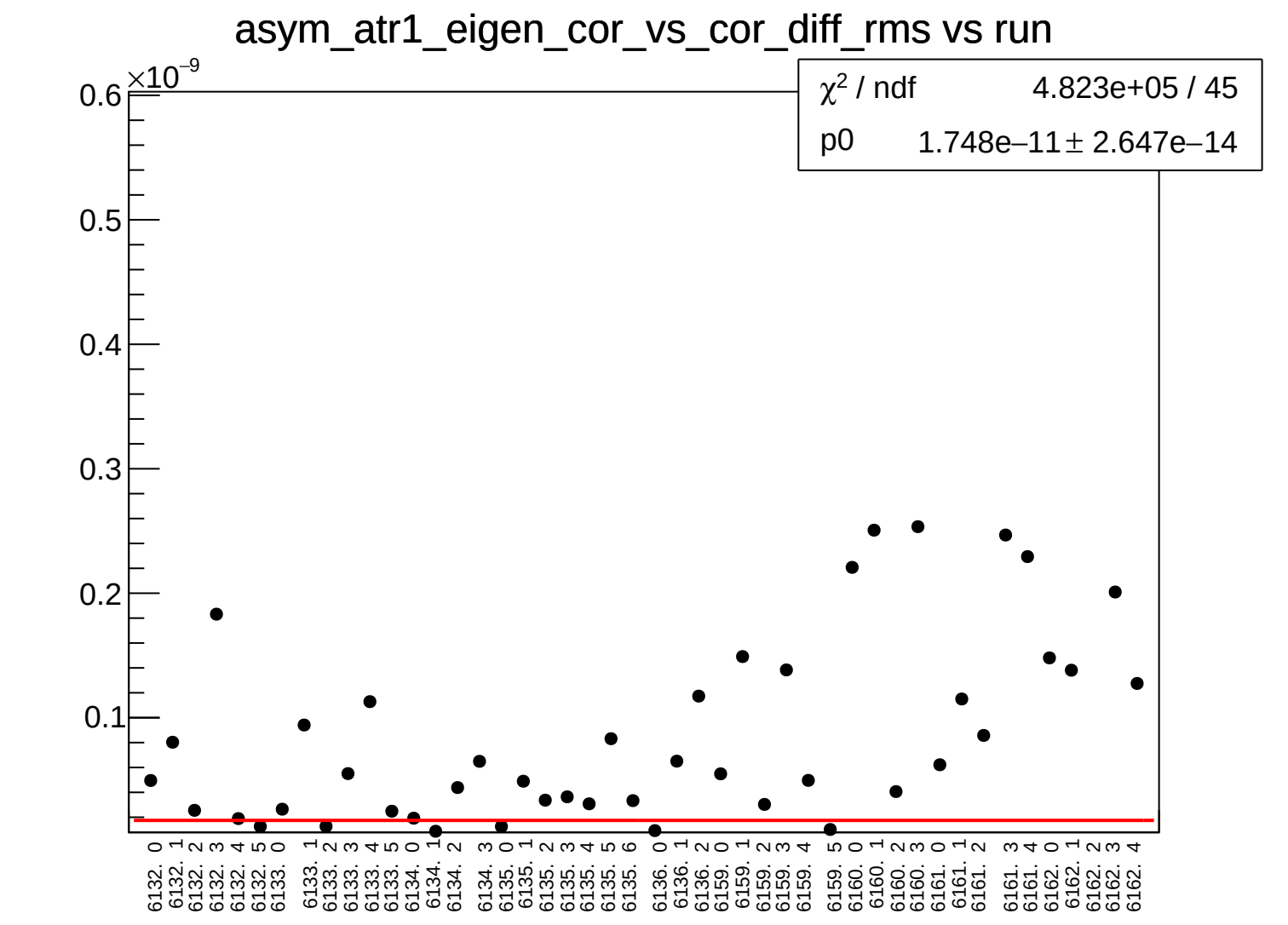

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.639e+05 / 45
p0 73.65 ± 0.0848
200
180
160
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

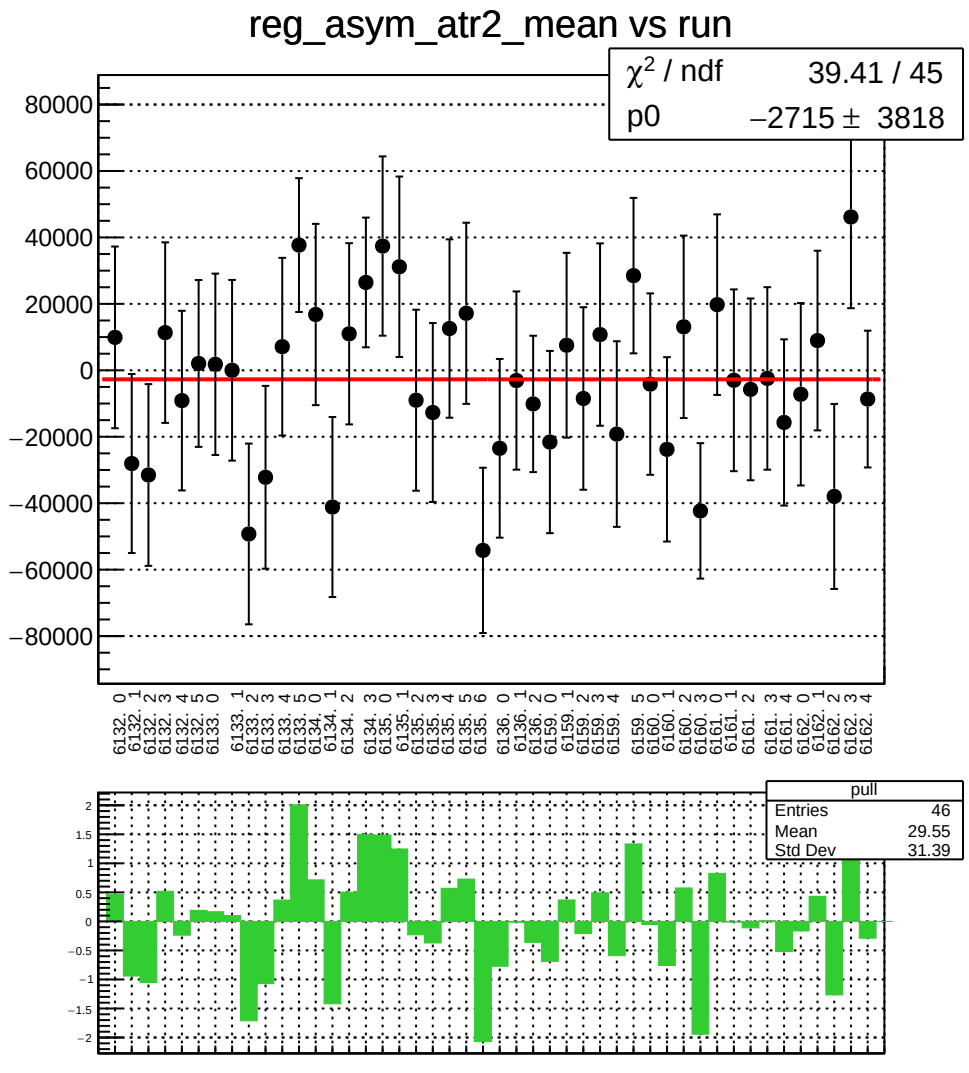

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.24 / 45
p0 0.08697 ± 0.1199
pull
Entries 46
Mean 102
Std Dev 0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

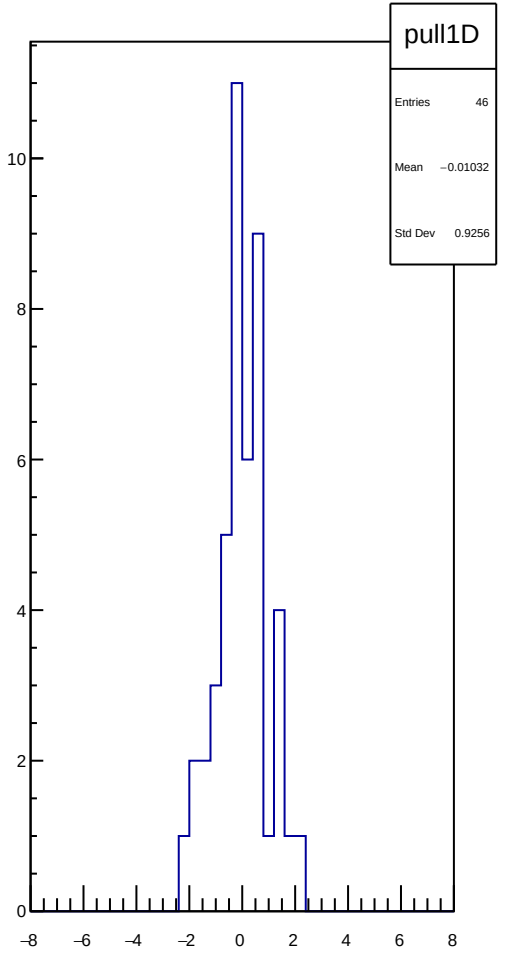

pull1D
Entries 46
Mean 0.02332
Std Dev 1.013

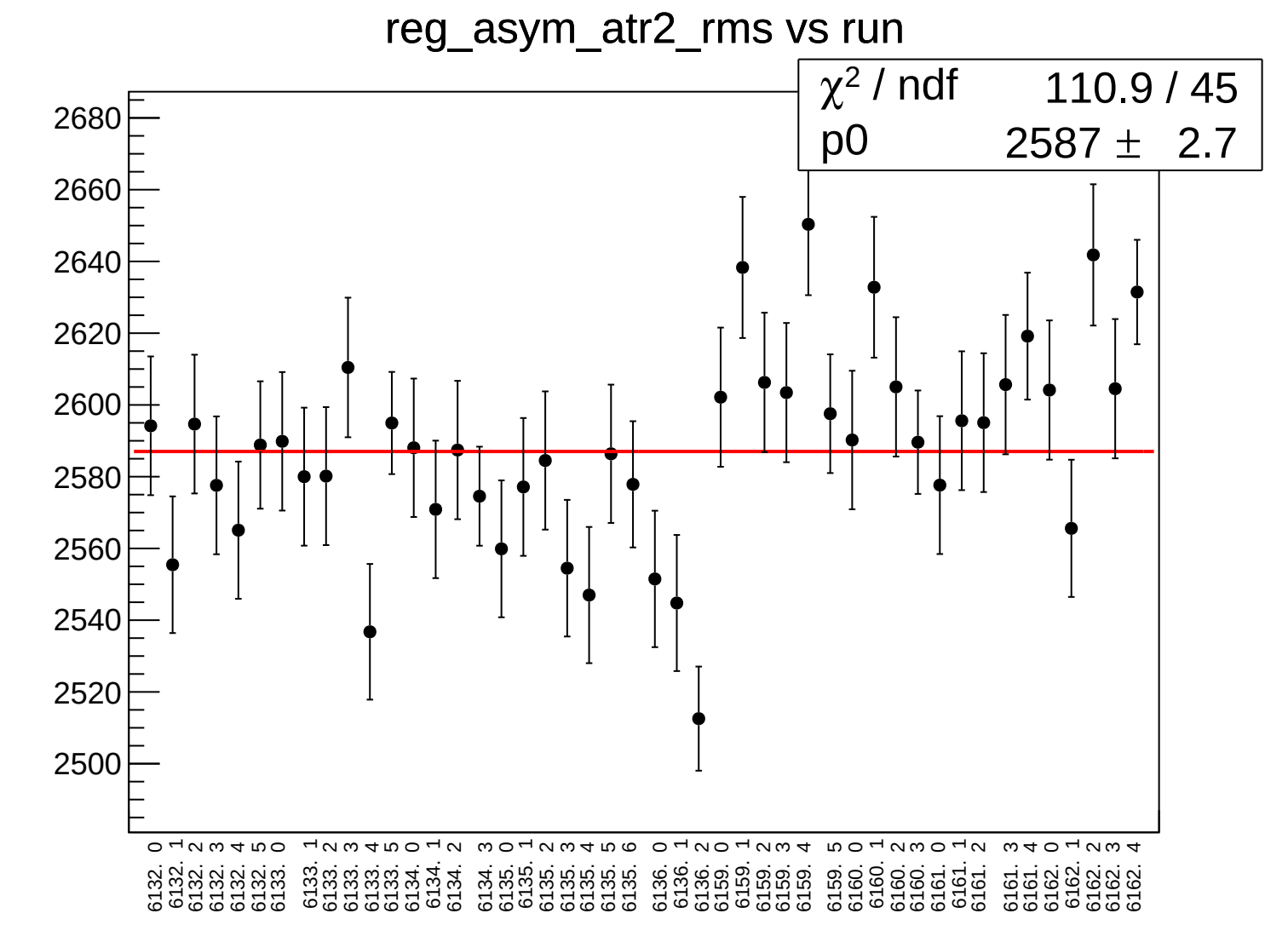

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.639e+05 / 45
p0 73.65 ± 0.0848
200
180
160
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

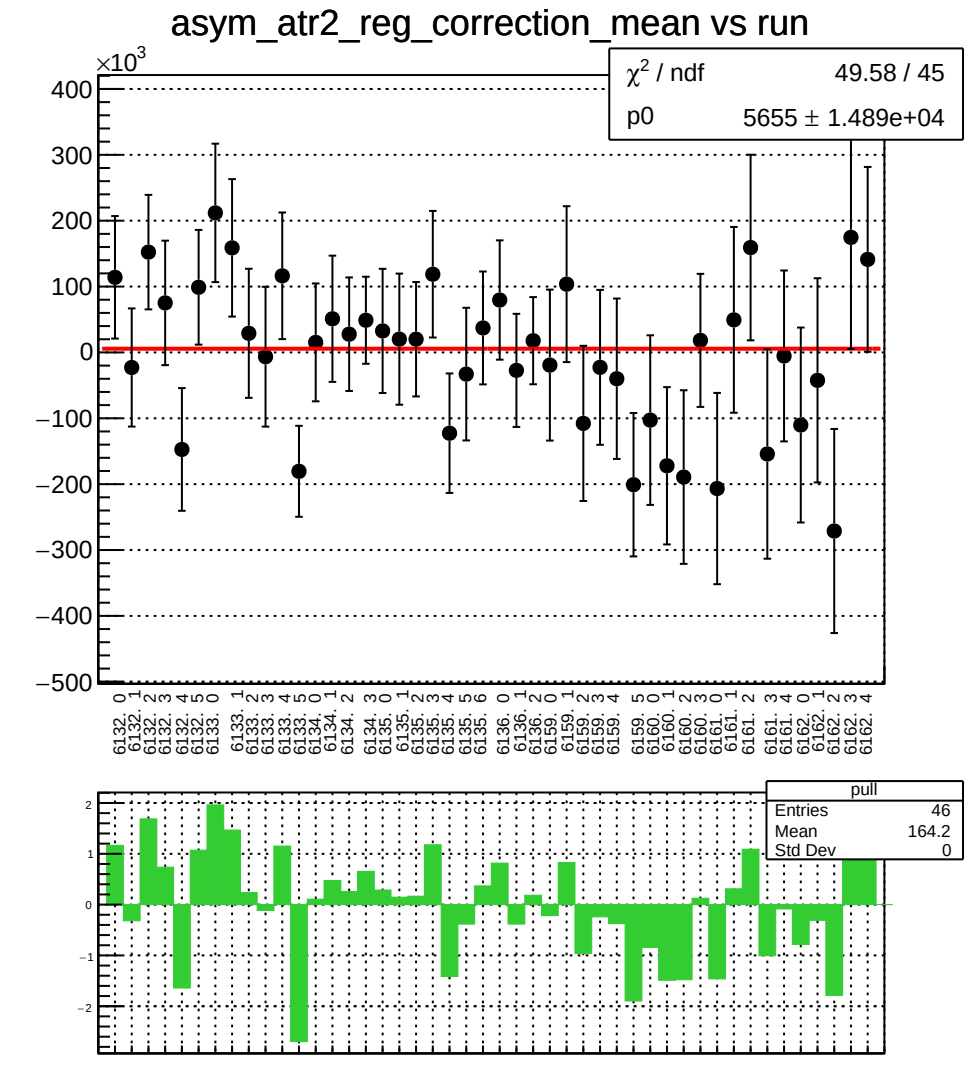

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 58.28 / 45
p0 3.403e−14 ± 3.744e−14
pull
Entries 46
Mean 39.95
Std Dev 0
pull1D
Entries 46
Mean 0.1748
Std Dev 1.112

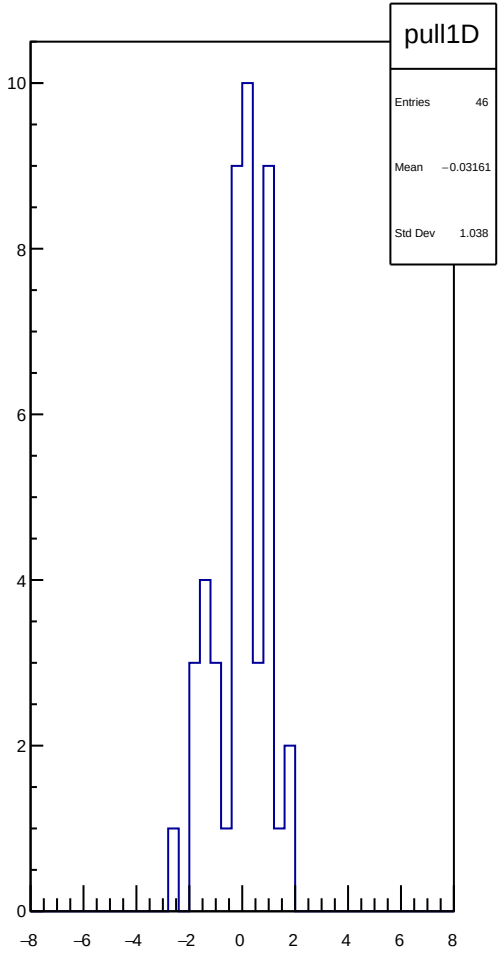

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.823e+05 / 45
p0 1.748e−11 ± 2.647e−14
0.6
0.5
0.4
0.3
0.2
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

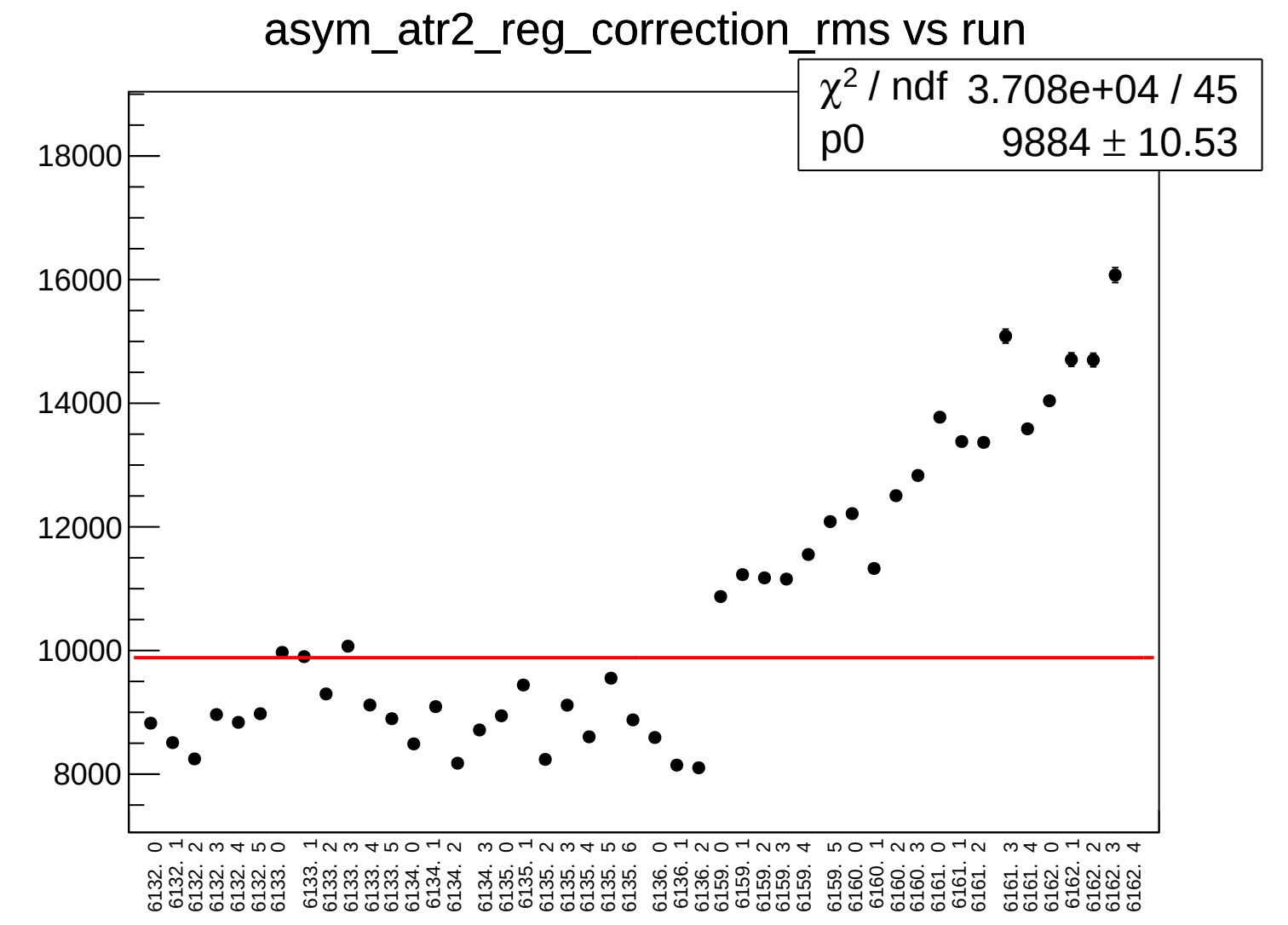

reg_asym_atr2_mean vs run
χ² / ndf 39.41 / 45
p0 −2715 ± 3818
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 29.55
Std Dev 31.39
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

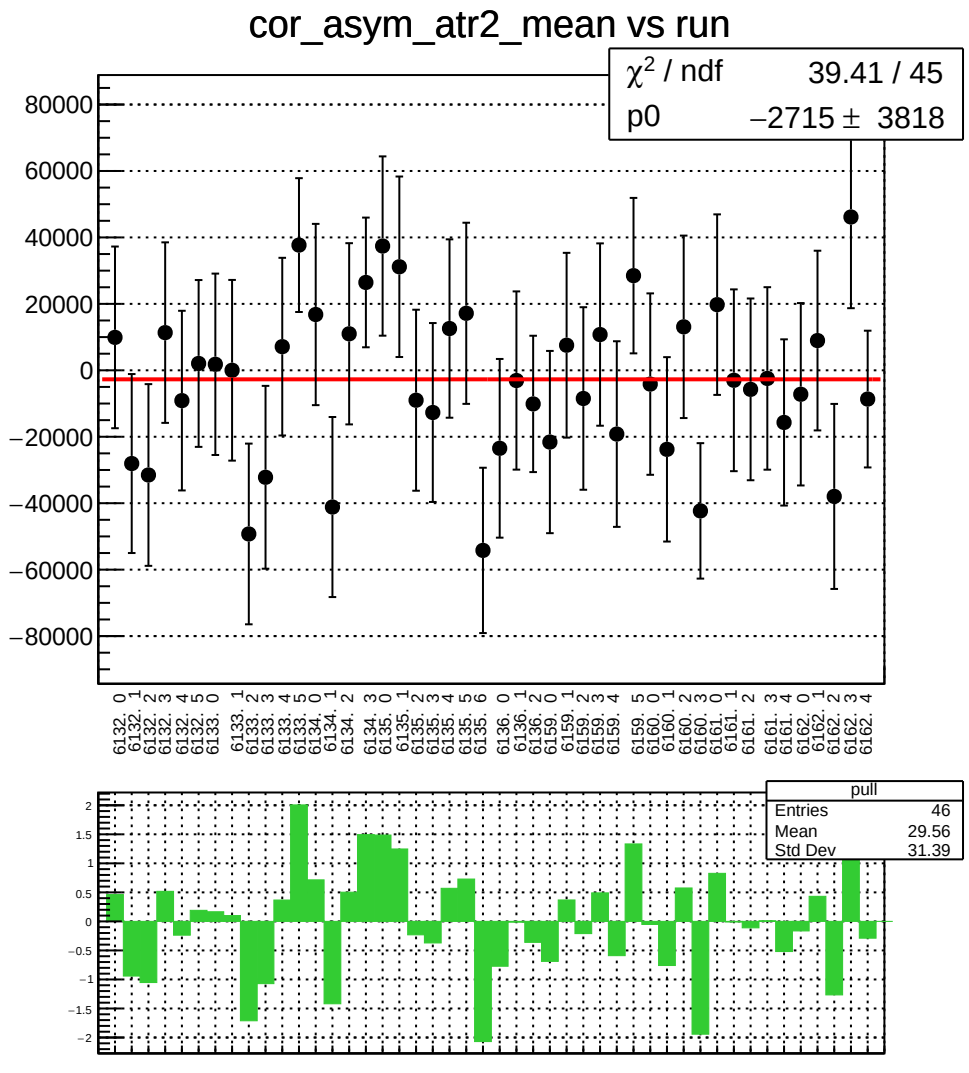

pull1D
Entries 46
Mean −0.01032
Std Dev 0.9256
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

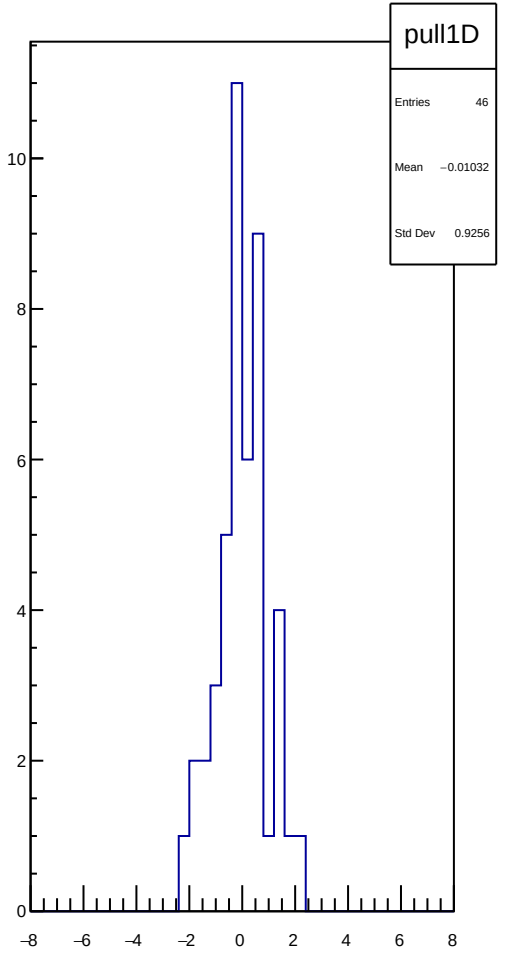

reg_asym_atr2_rms vs run
χ² / ndf 110.9 / 45
p0 2587 ± 2.7
2680
2660
2640
2620
2600
2580
2560
2540
2520
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

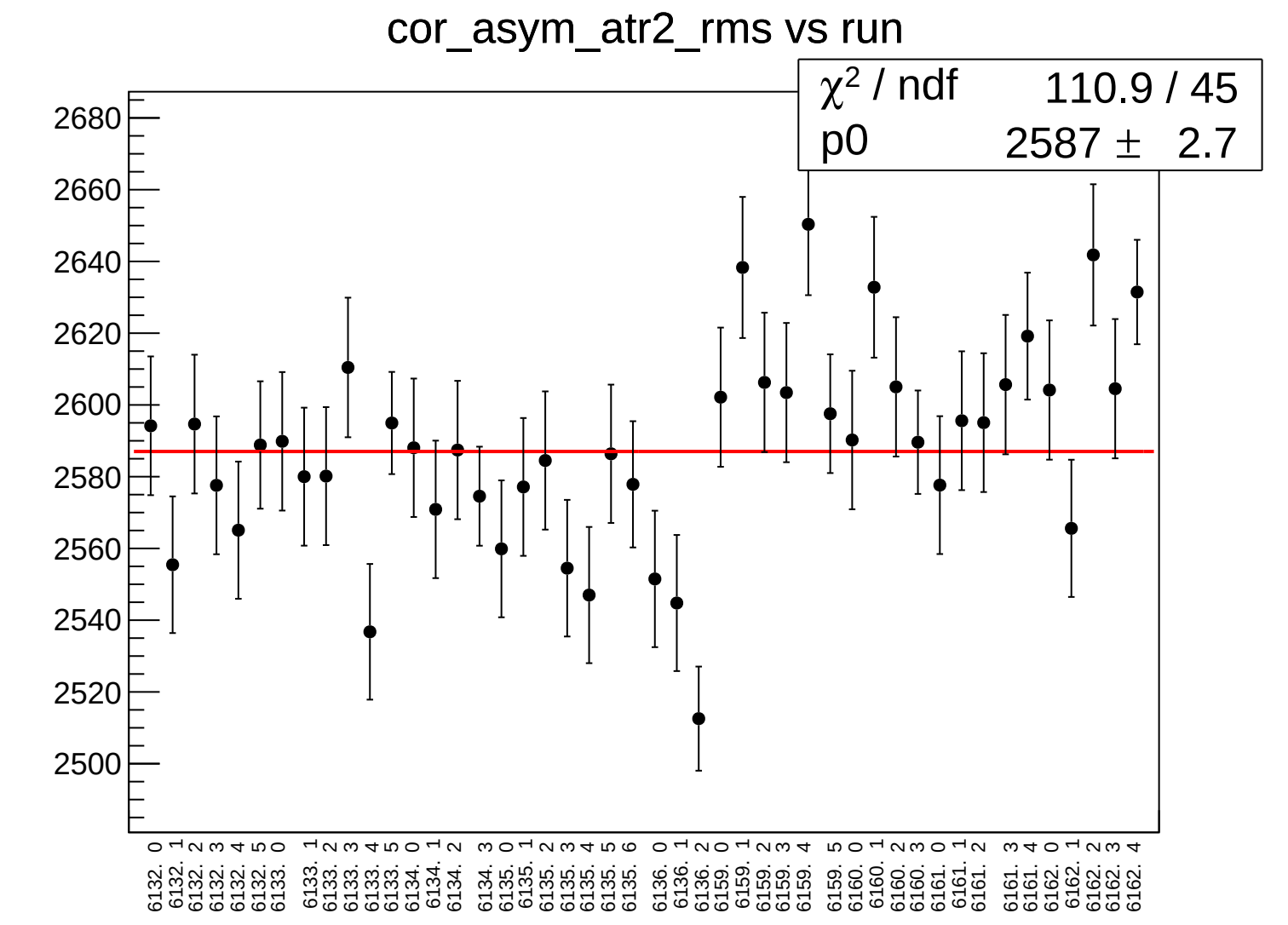

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 49.58 / 45
p0 5655 ± 1.489e+04
pull
Entries 46
Mean 164.2
Std Dev 0

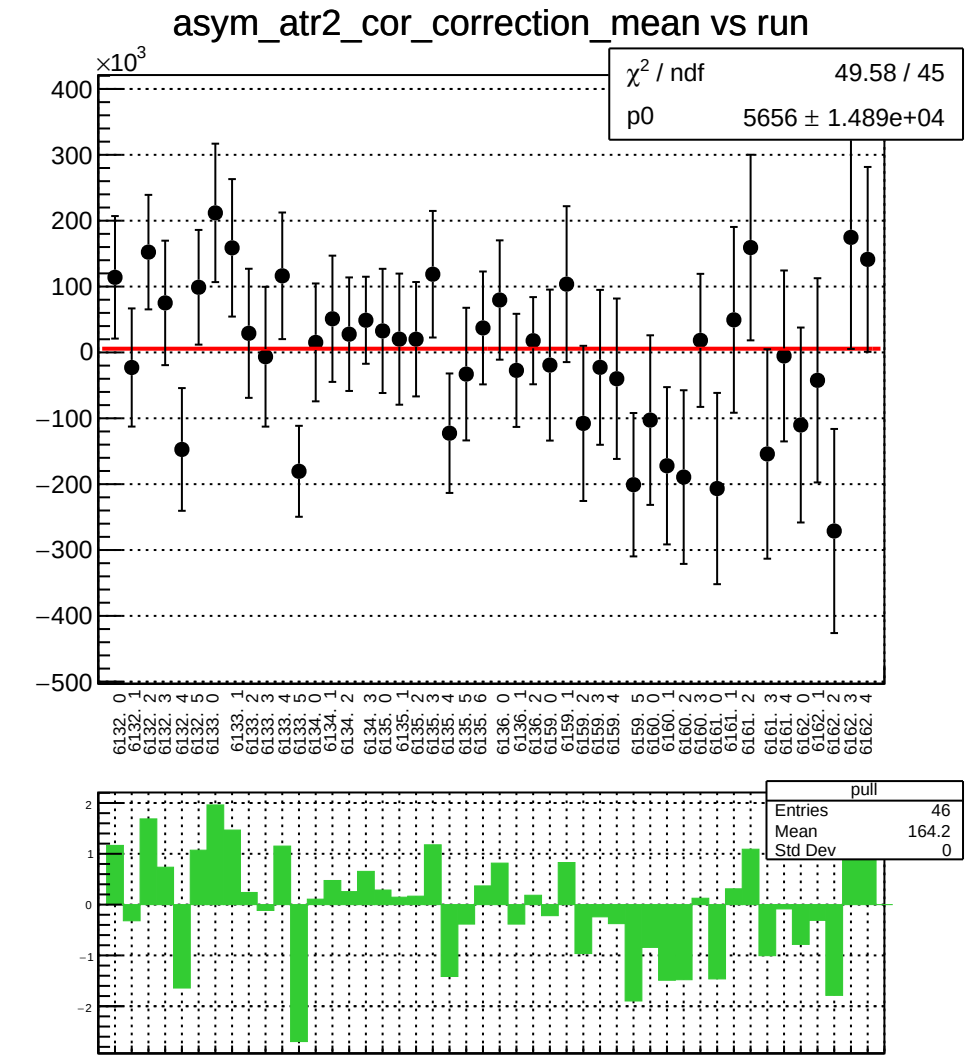

pull1D
Entries 46
Mean −0.03161
Std Dev 1.038

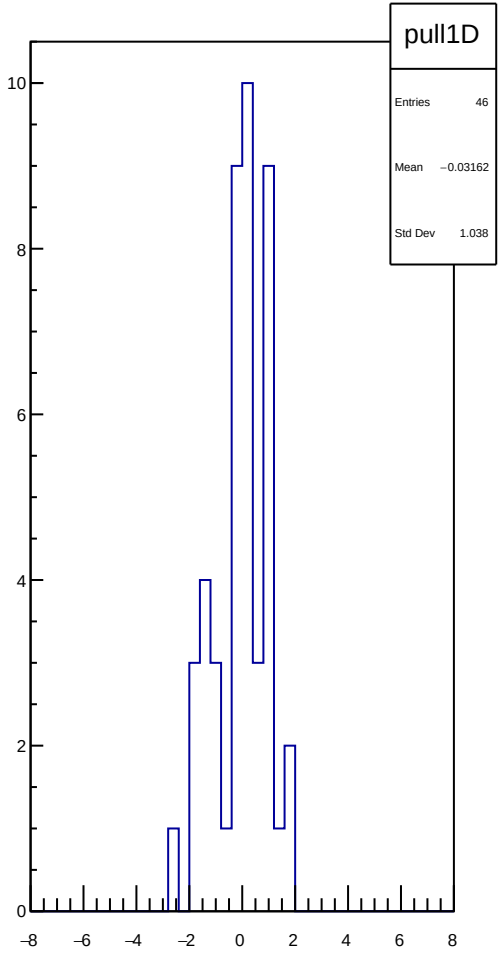

asym_atr2_reg_correction_rms vs run
χ² / ndf 3.708e+04 / 45
p0 9884 ± 10.53
18000
16000
14000
12000
10000
8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

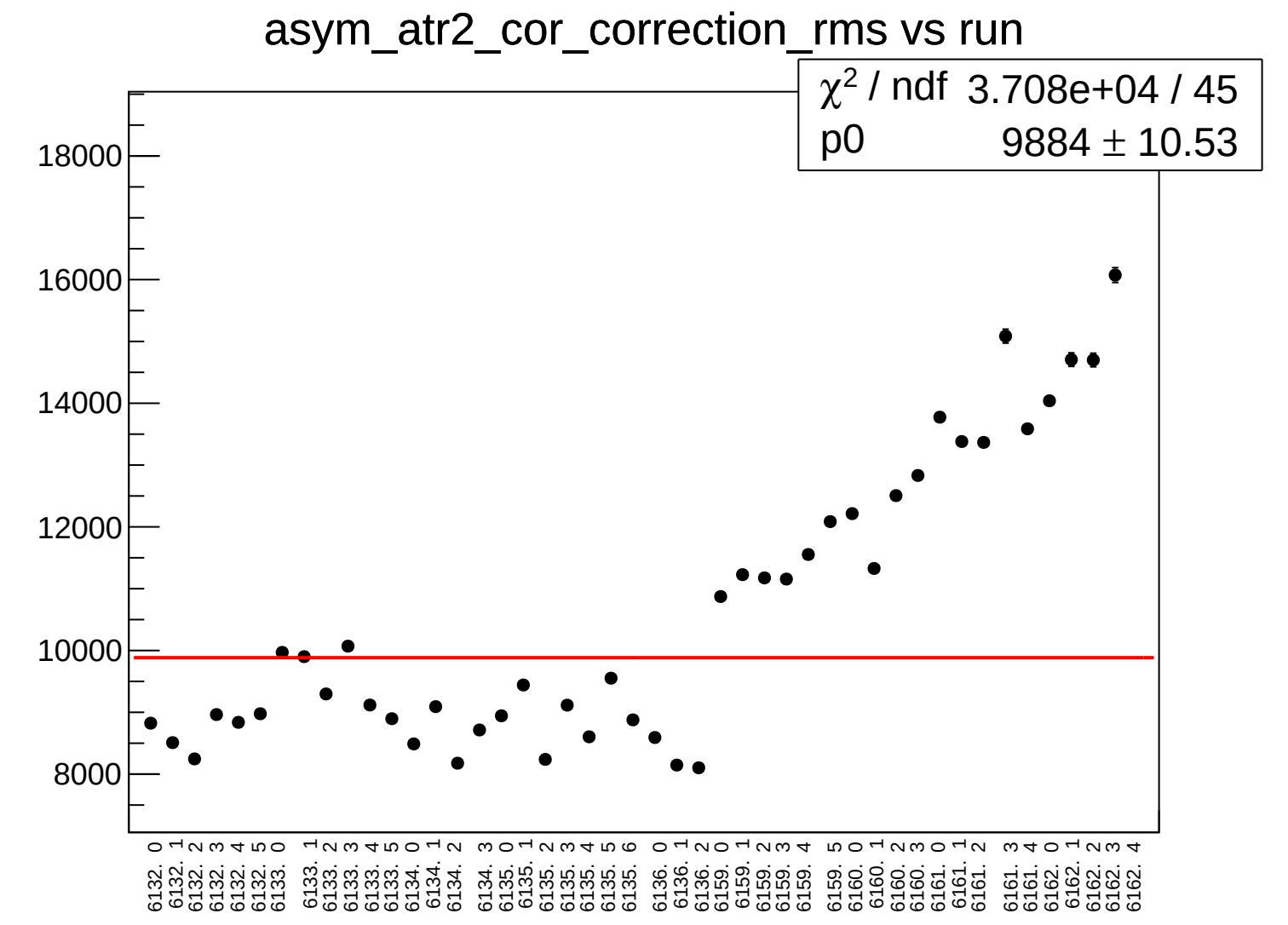

cor_asym_atr2_mean vs run
χ² / ndf 39.41 / 45
p0 −2715 ± 3818
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 29.56
Std Dev 31.39
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean −0.01032
Std Dev 0.9256
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr2_rms vs run
χ² / ndf 110.9 / 45
p0 2587 ± 2.7
2680
2660
2640
2620
2600
2580
2560
2540
2520
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 49.58 / 45
p0 5656 ± 1.489e+04
pull
Entries 46
Mean 164.2
Std Dev 0


pull1D
Entries 46
Mean −0.03162
Std Dev 1.038


asym_atr2_cor_correction_rms vs run
χ² / ndf 3.708e+04 / 45
p0 9884 ± 10.53
18000
16000
14000
12000
10000
8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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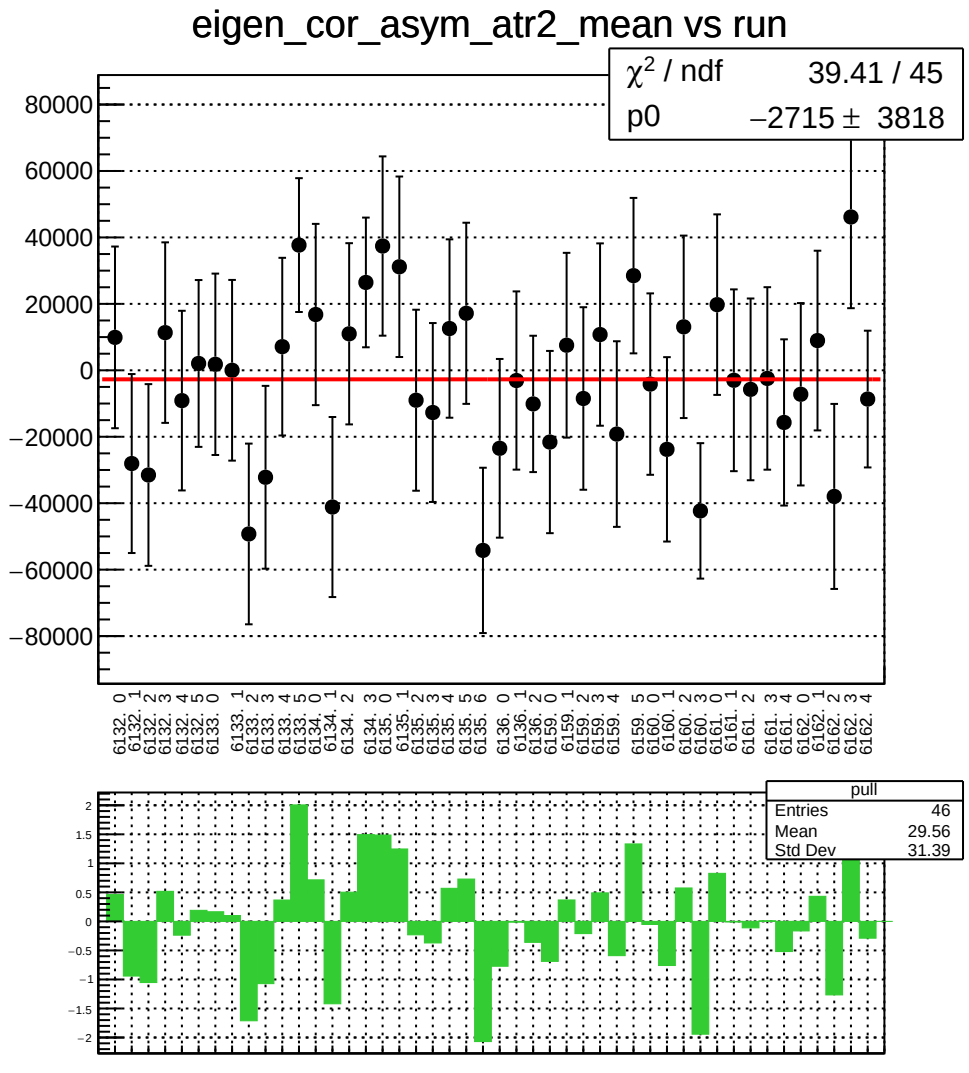
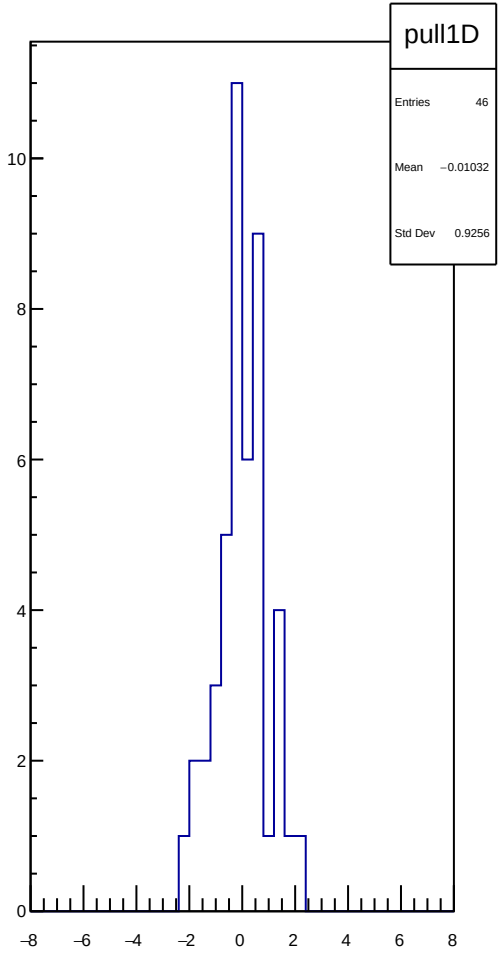
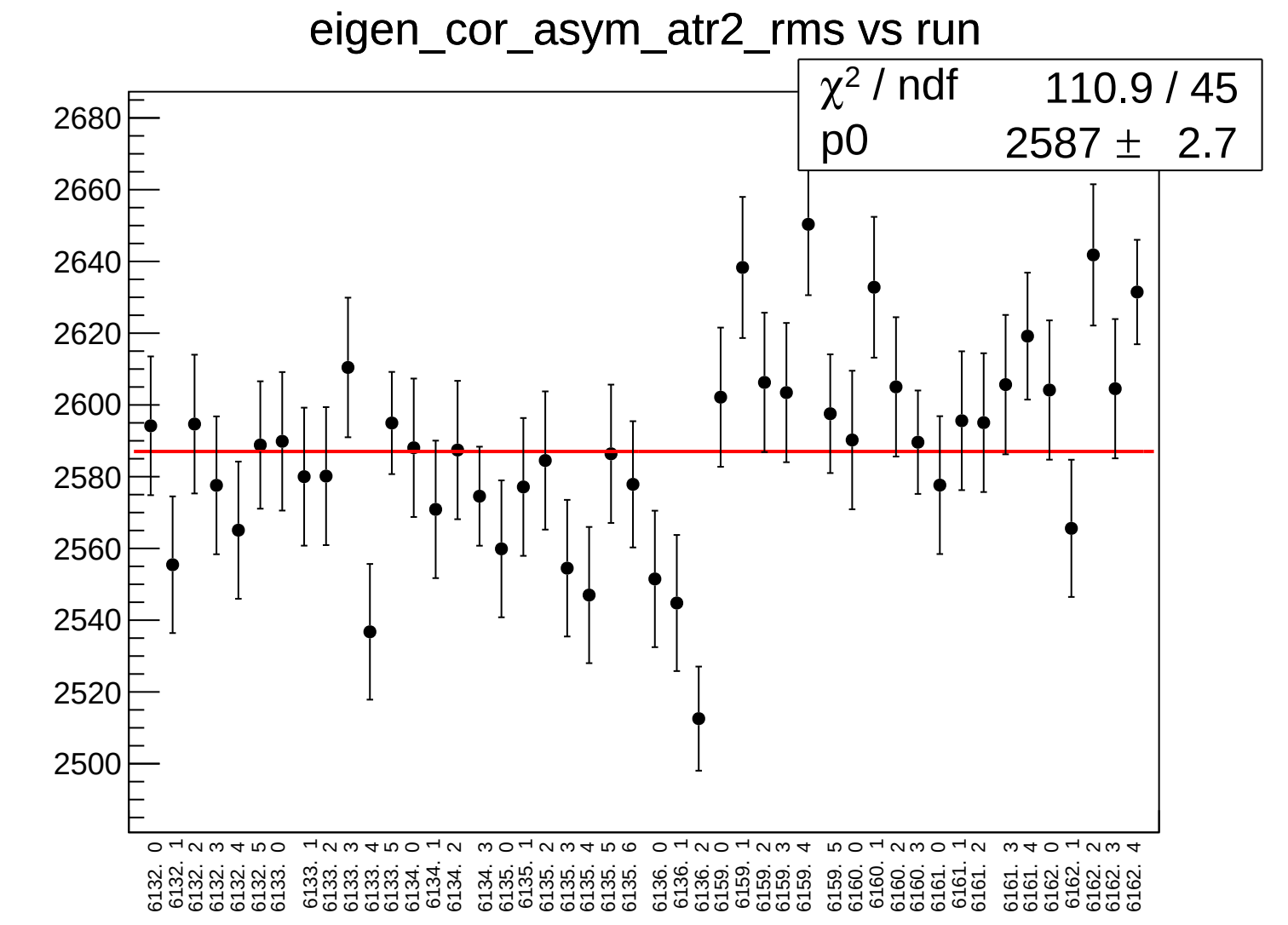
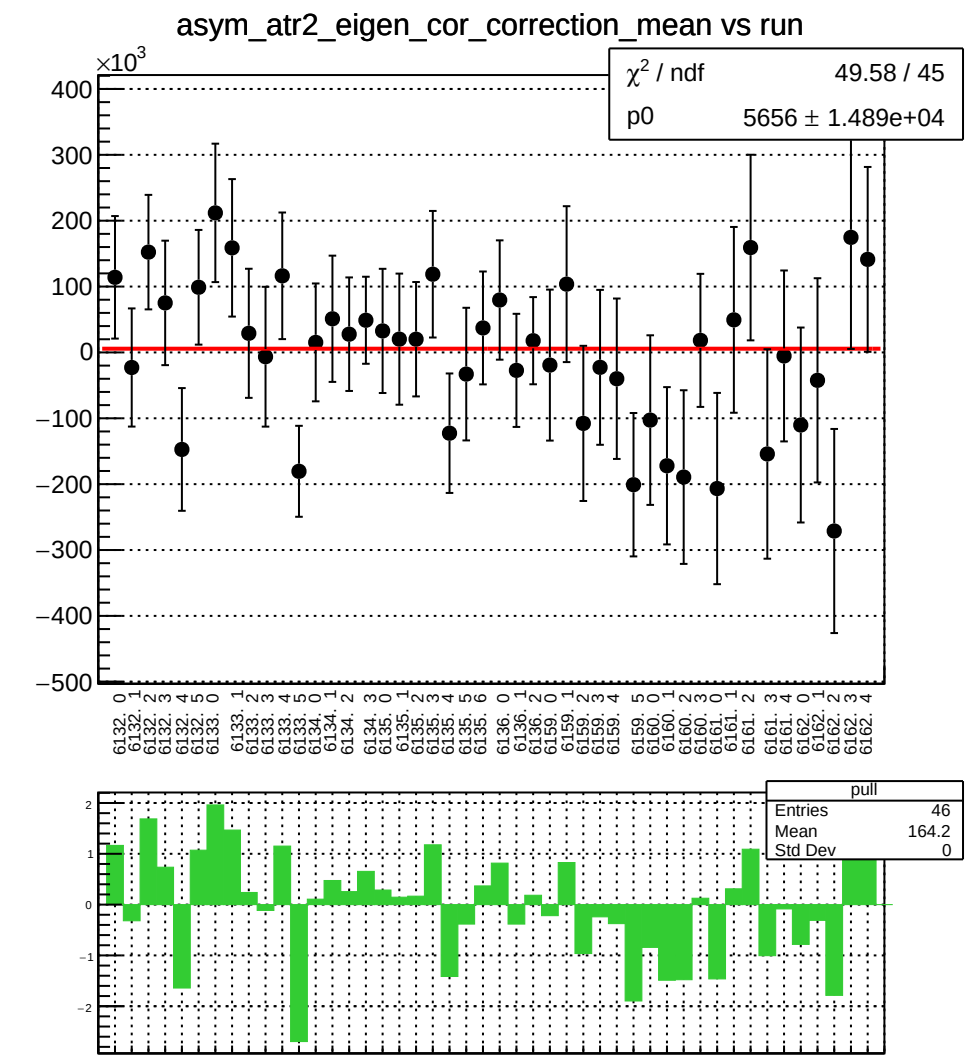
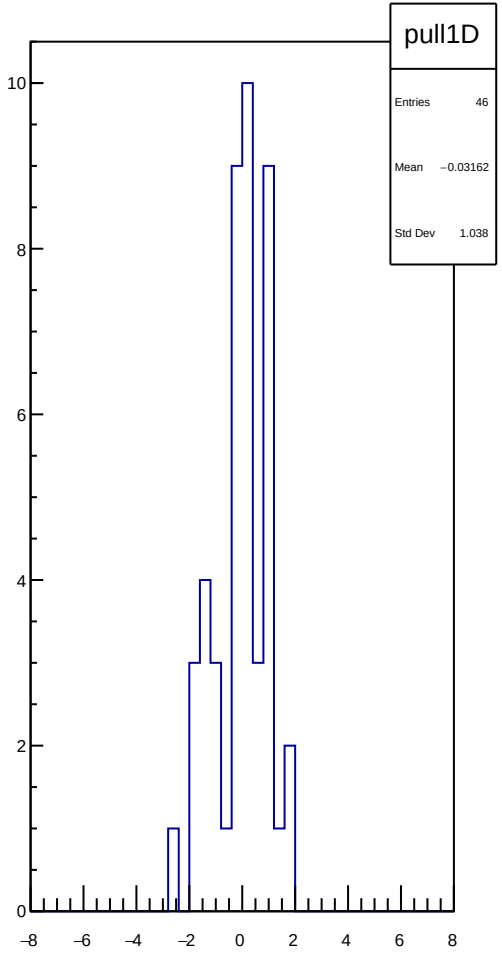
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

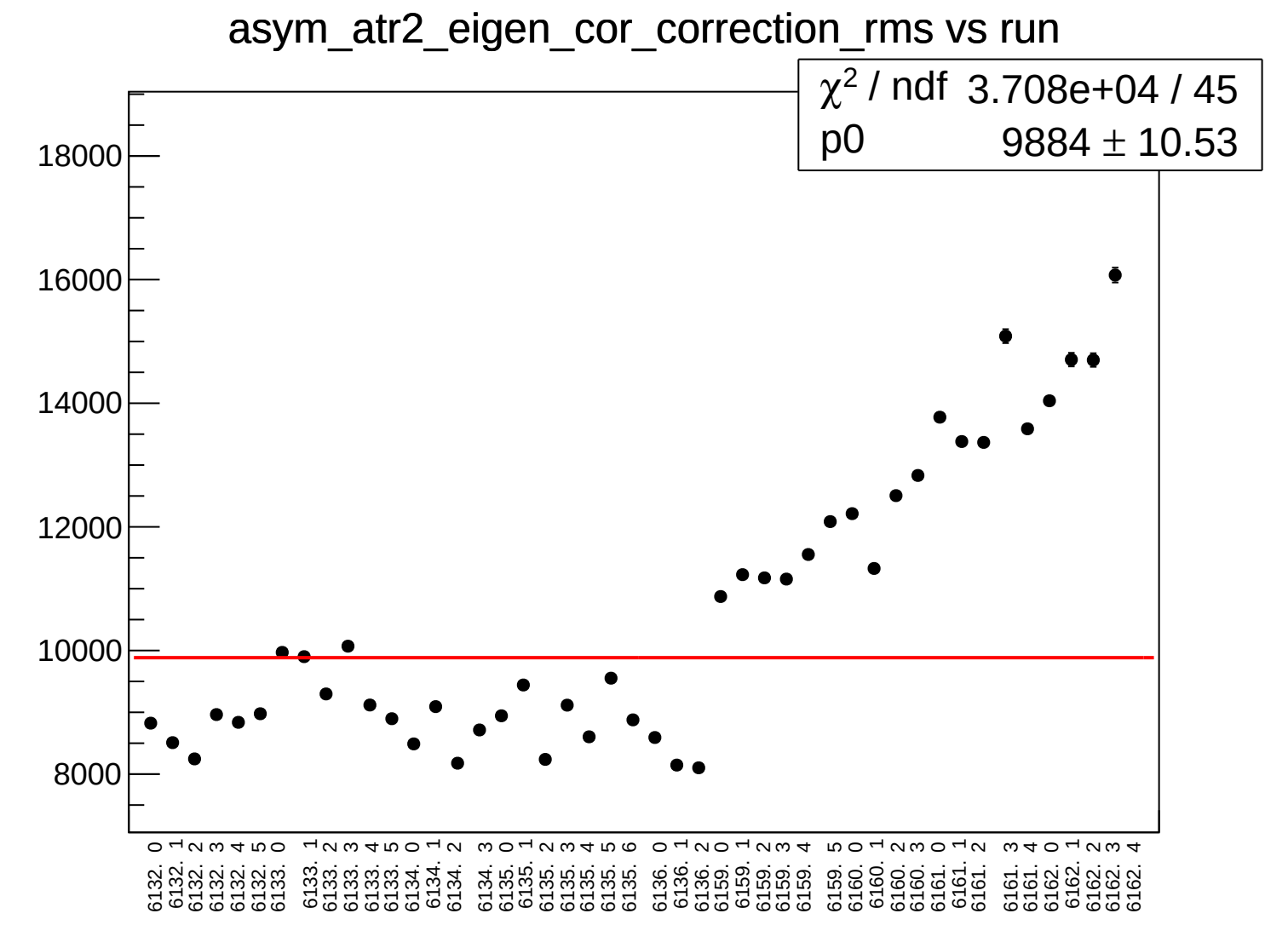

eigen_cor_asym_atr2_mean vs run
χ² / ndf 39.41 / 45
p0 −2715 ± 3818
pull
Entries 46
Mean 29.56
Std Dev 31.39

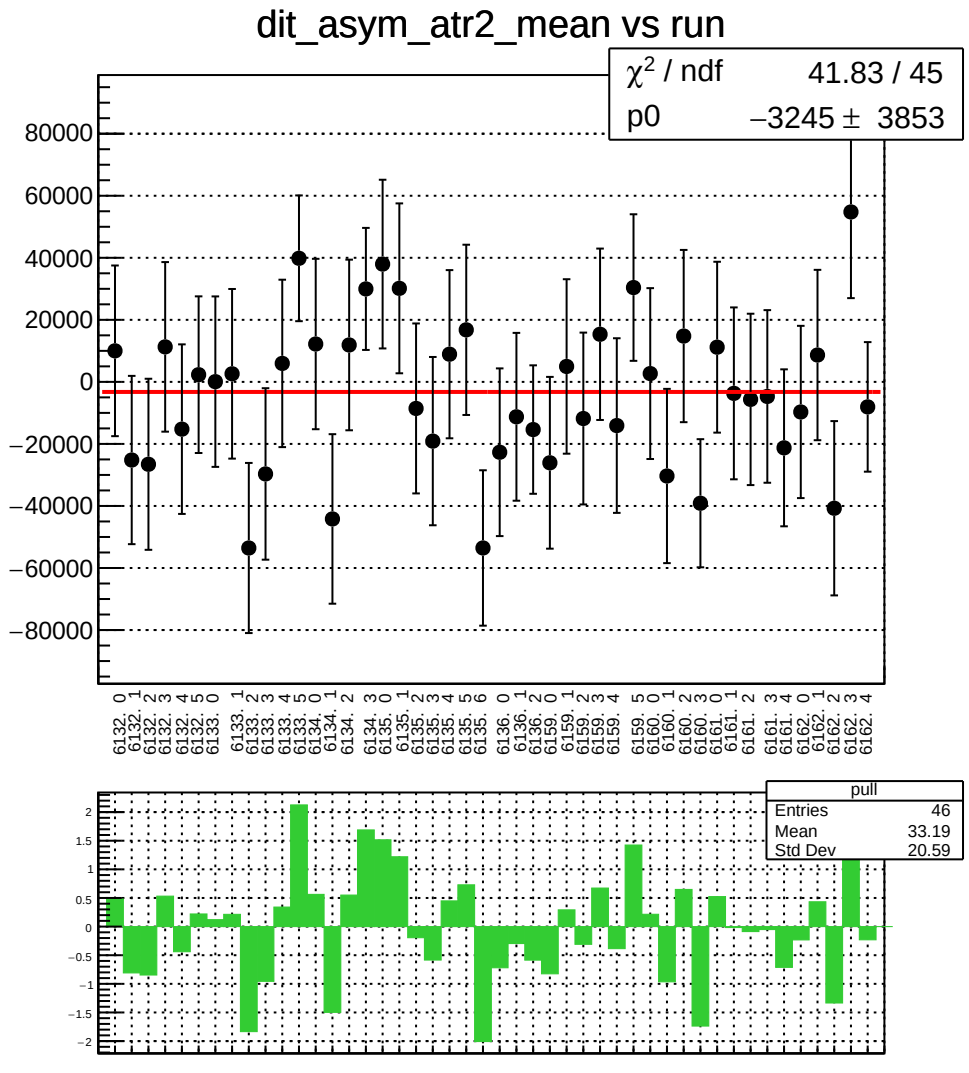

pull1D
Entries 46
Mean −0.01032
Std Dev 0.9256


eigen_cor_asym_atr2_rms vs run
χ² / ndf 110.9 / 45
p0 2587 ± 2.7
2680
2660
2640
2620
2600
2580
2560
2540
2520
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 49.58 / 45
p0 5656 ± 1.489e+04
pull
Entries 46
Mean 164.2
Std Dev 0


pull1D
Entries 46
Mean −0.03162
Std Dev 1.038


asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 3.708e+04 / 45
p0 9884 ± 10.53
18000
16000
14000
12000
10000
8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


dit_asym_atr2_mean vs run
χ² / ndf 41.83 / 45
p0 −3245 ± 3853
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 2
6133. 3
6133. 4
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6134. 0
6134. 1
6134. 2
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6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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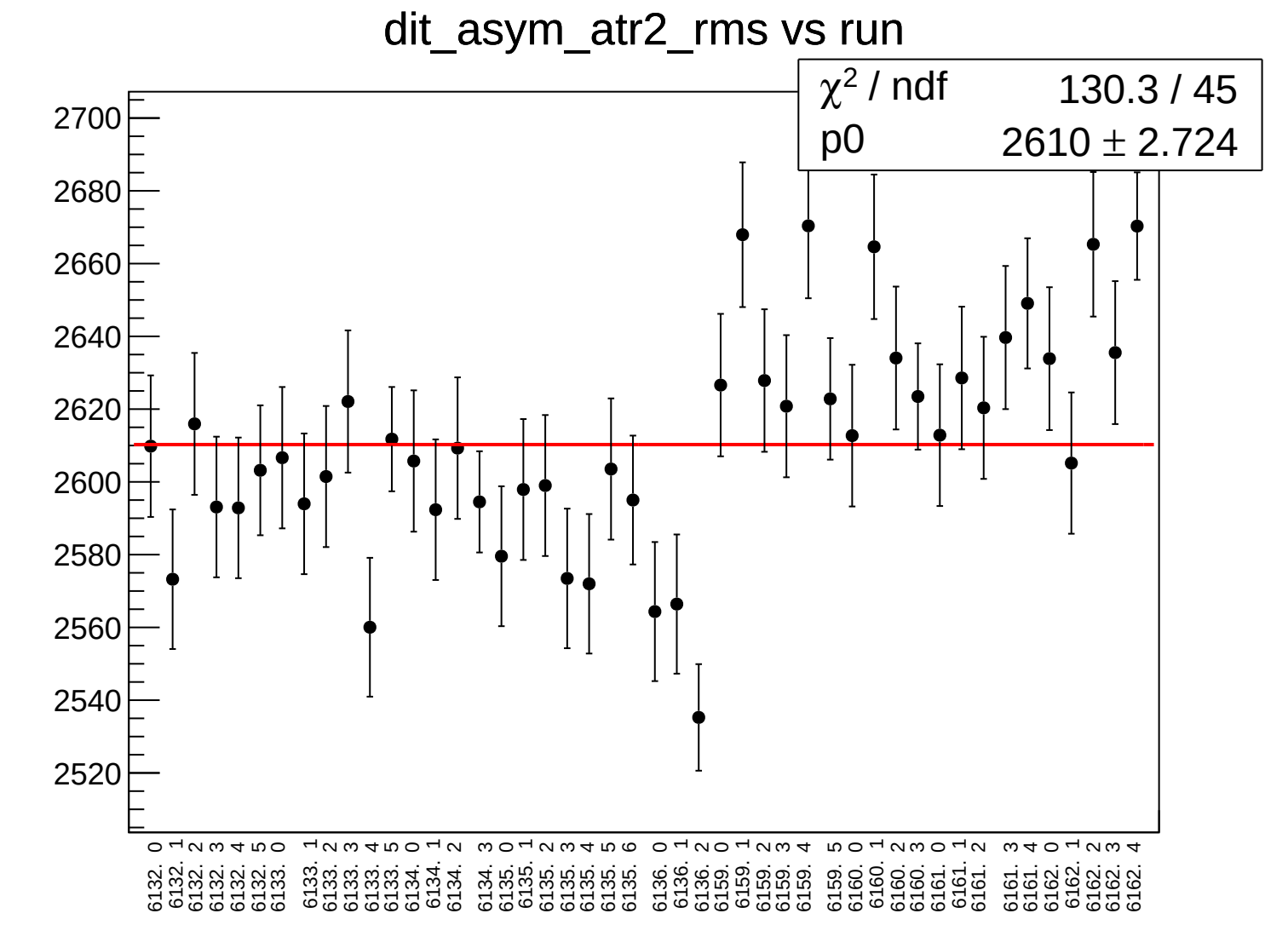
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 33.19
Std Dev 20.59
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.01323
Std Dev 0.9535
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atr2_rms vs run
χ² / ndf 130.3 / 45
p0 2610 ± 2.724
2700
2680
2660
2640
2620
2600
2580
2560
2540
2520
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
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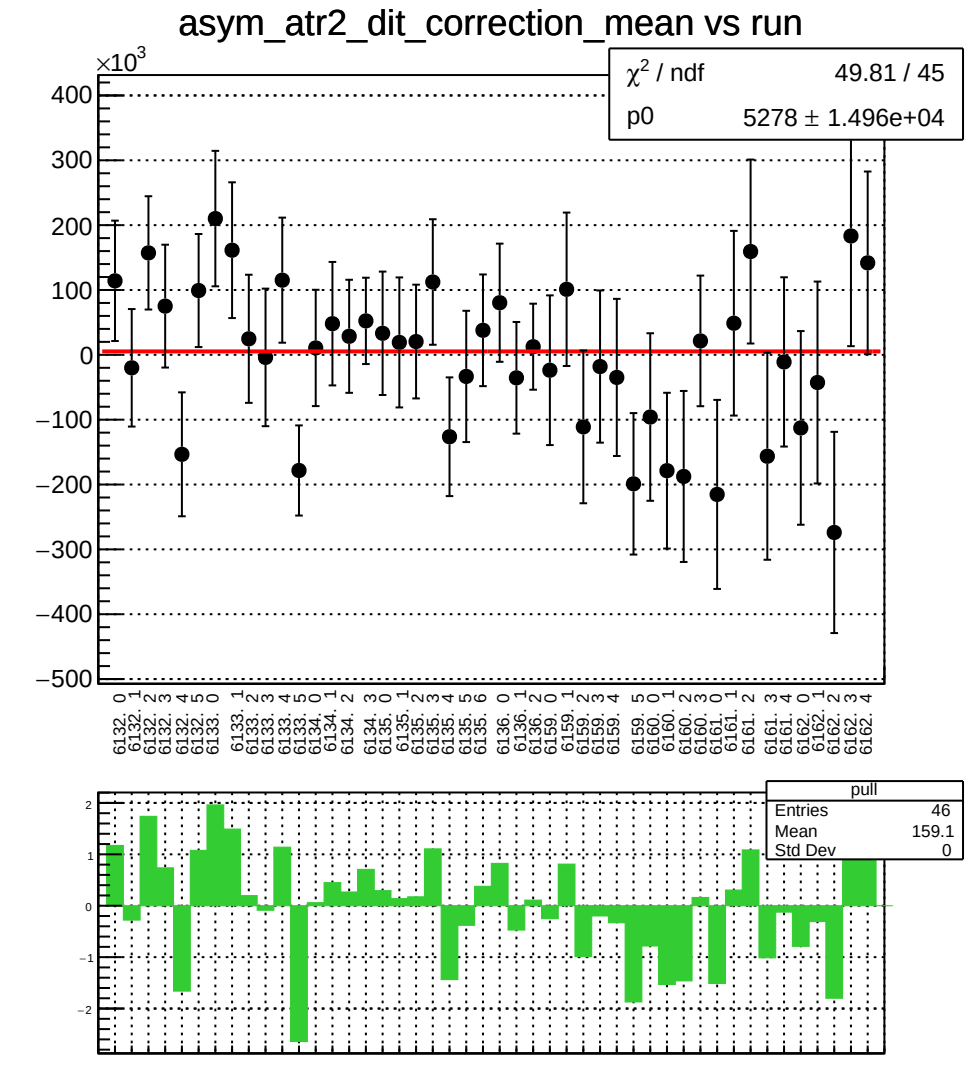
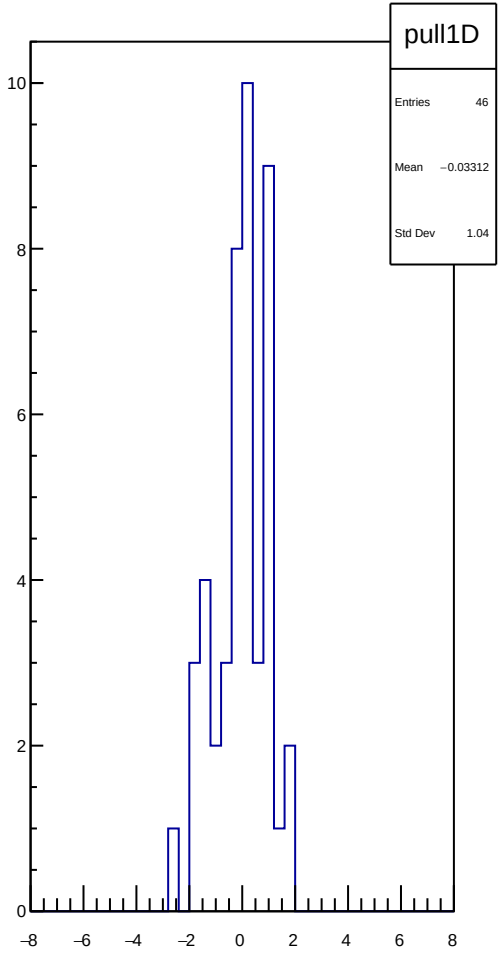
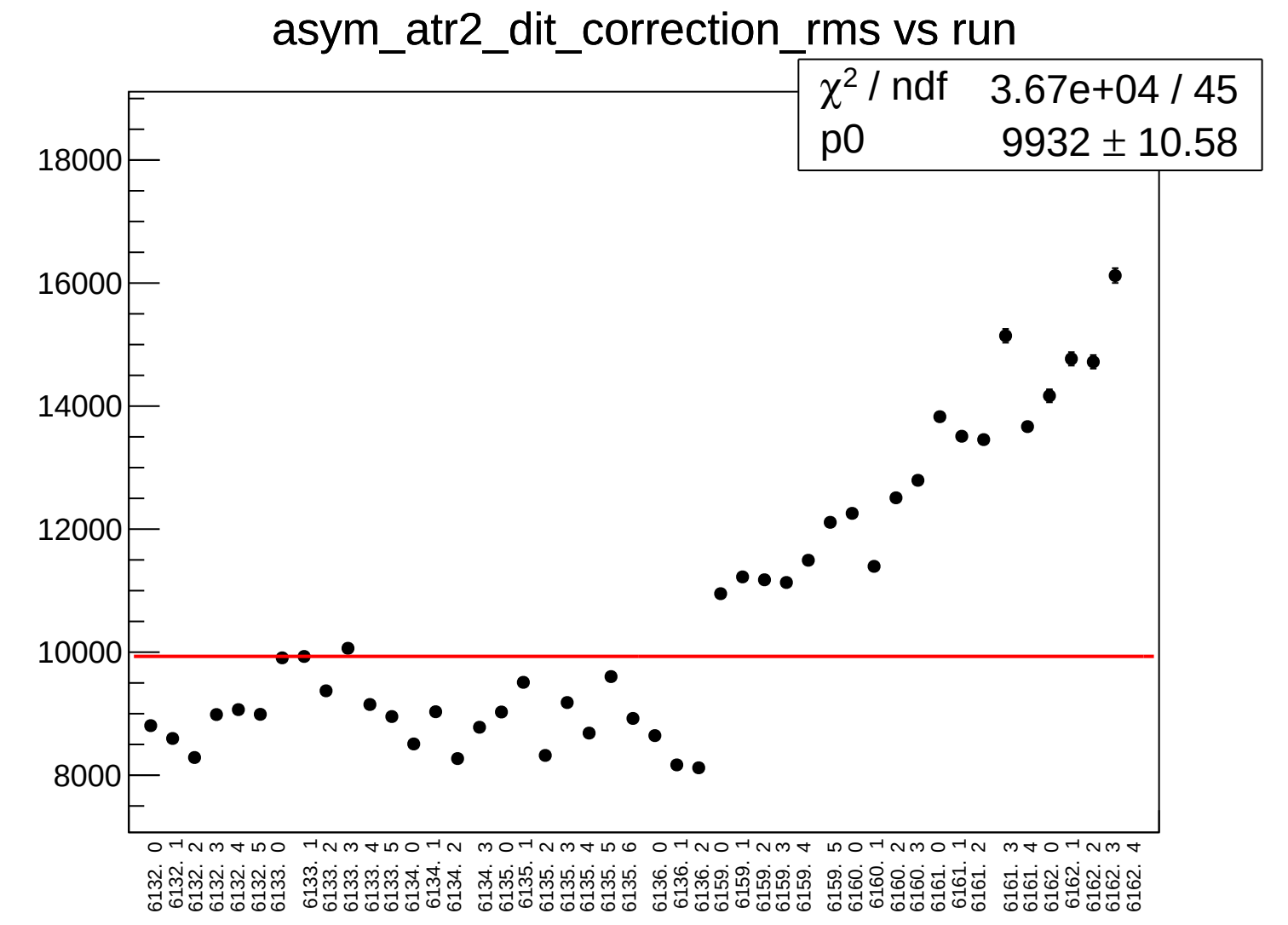
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 49.81 / 45
p0 5278 ± 1.496e+04
pull
Entries 46
Mean 159.1
Std Dev 0


pull1D
Entries 46
Mean −0.03312
Std Dev 1.04


asym_atr2_dit_correction_rms vs run
χ² / ndf 3.67e+04 / 45
p0 9932 ± 10.58
18000
16000
14000
12000
10000
8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
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6134. 0
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6159. 1
6159. 2
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6159. 5
6160. 0
6160. 1
6160. 2
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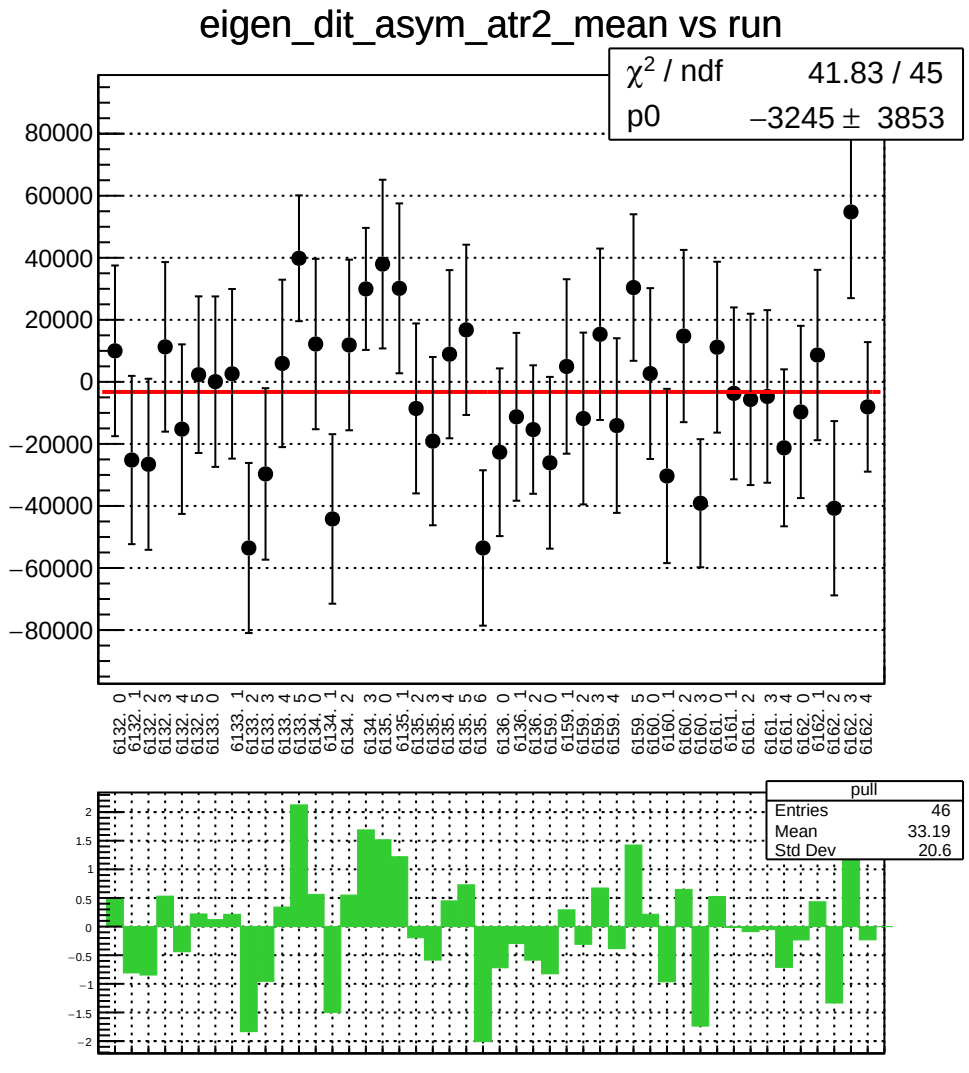
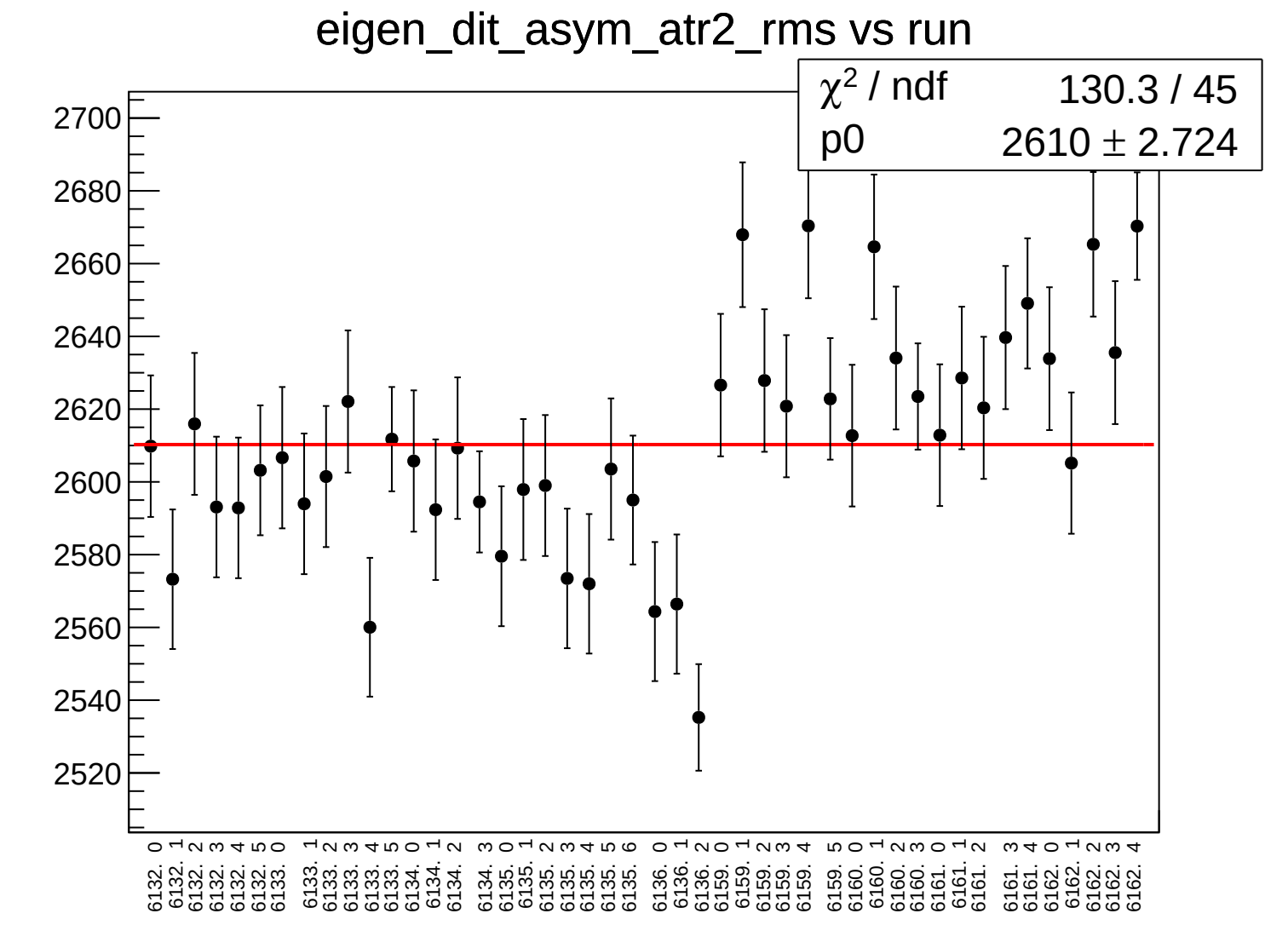
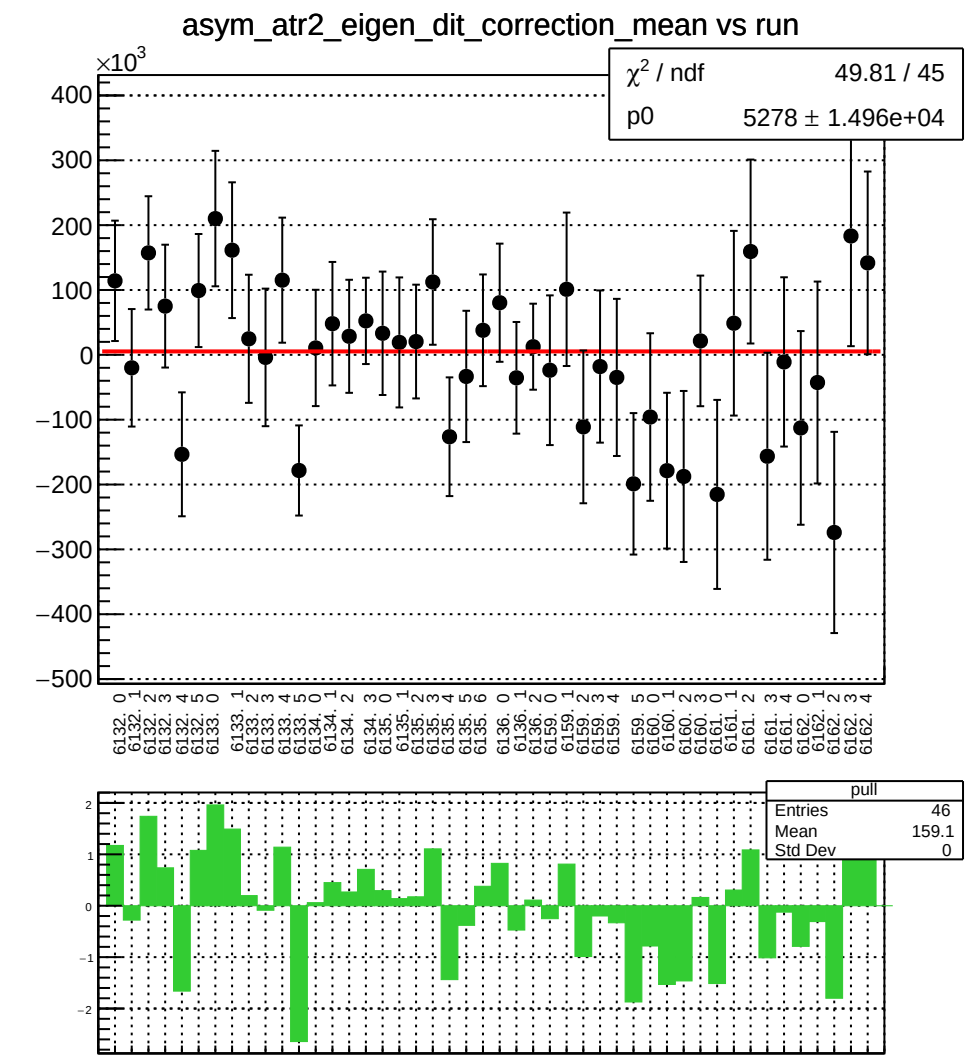
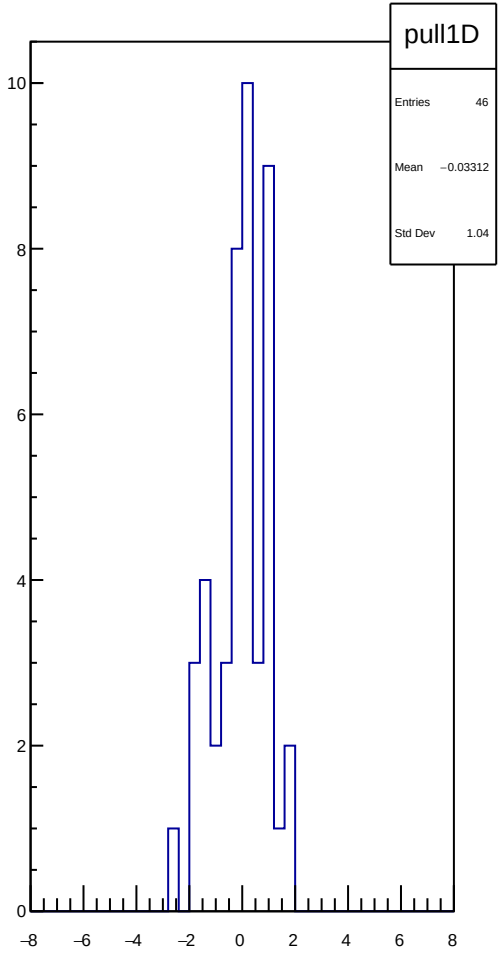
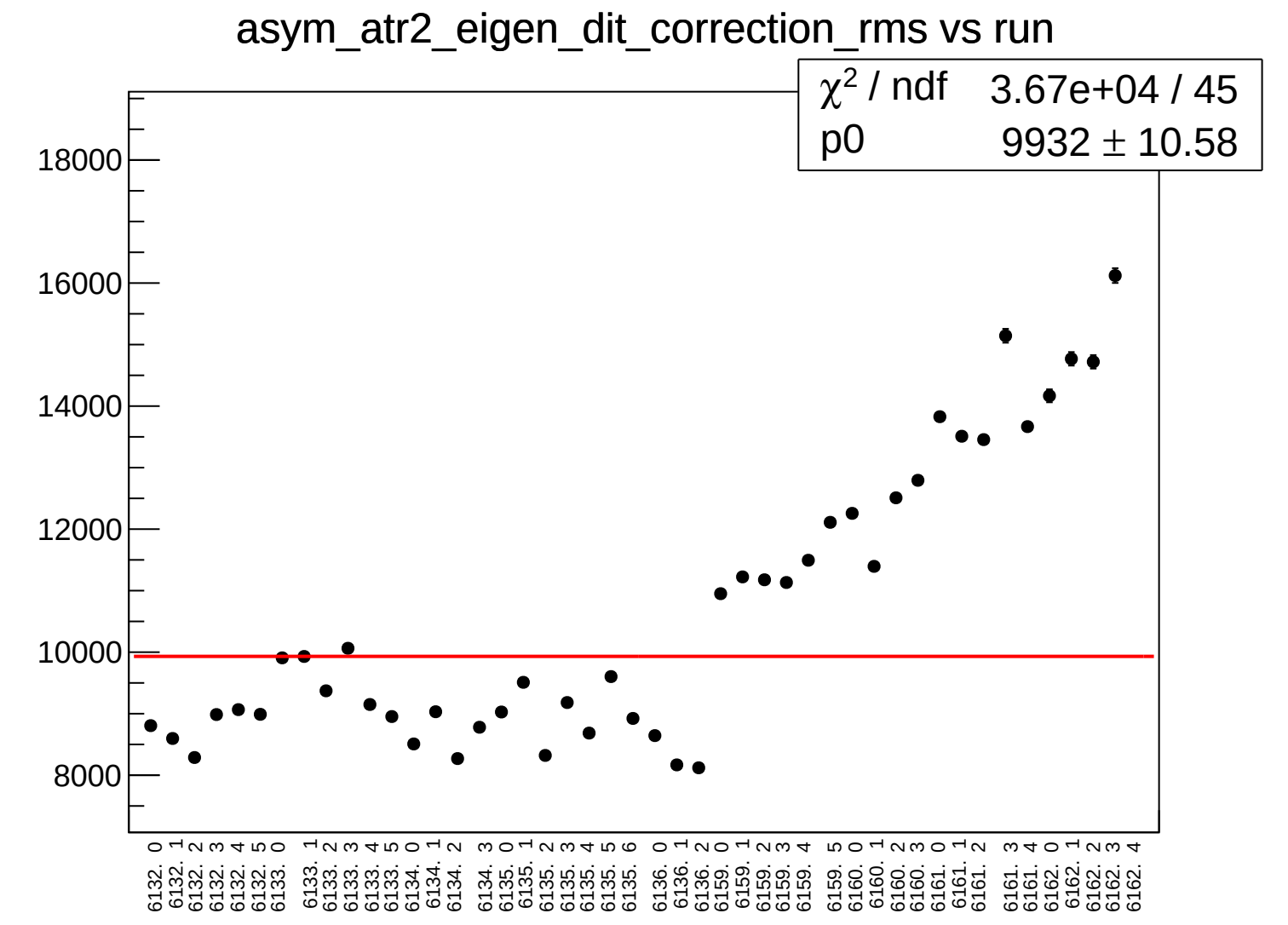
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

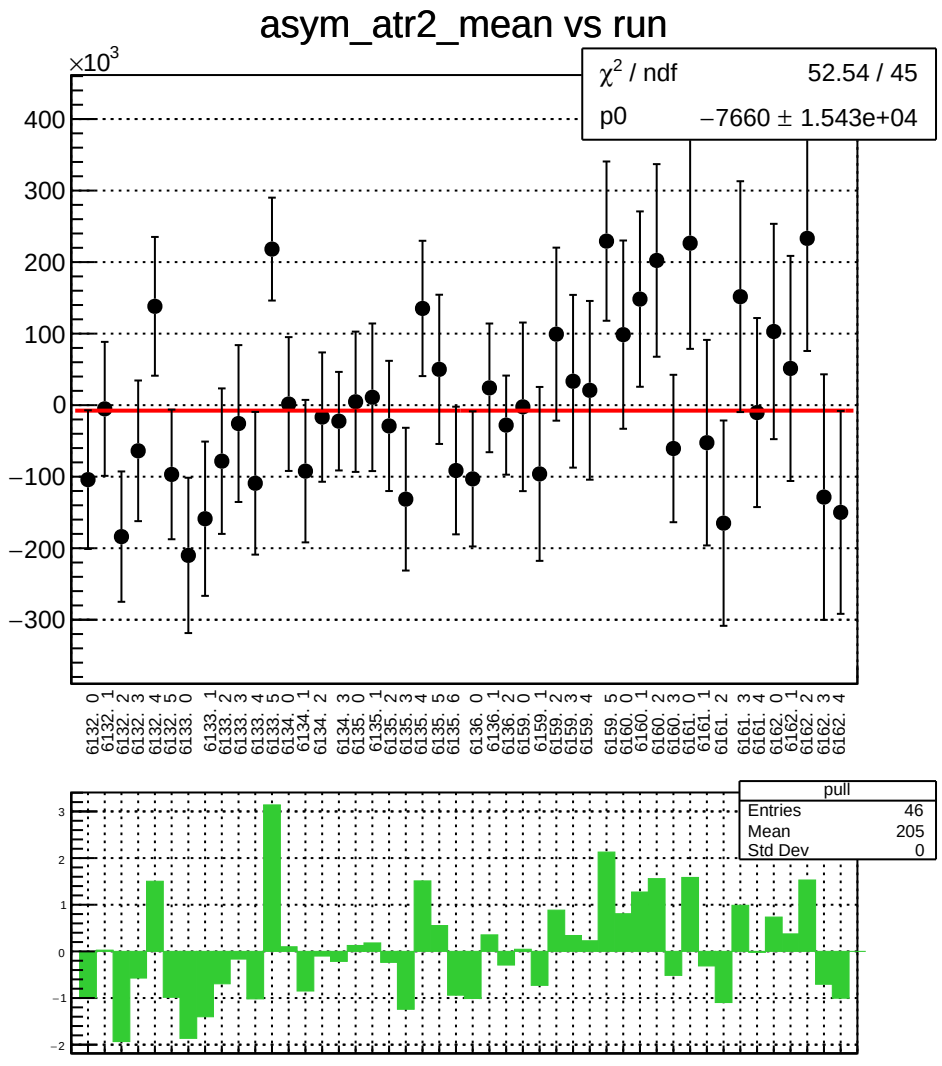

eigen_dit_asym_atr2_mean vs run
χ² / ndf 41.83 / 45
p0 −3245 ± 3853
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 33.19
Std Dev 20.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.01323
Std Dev 0.9535
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

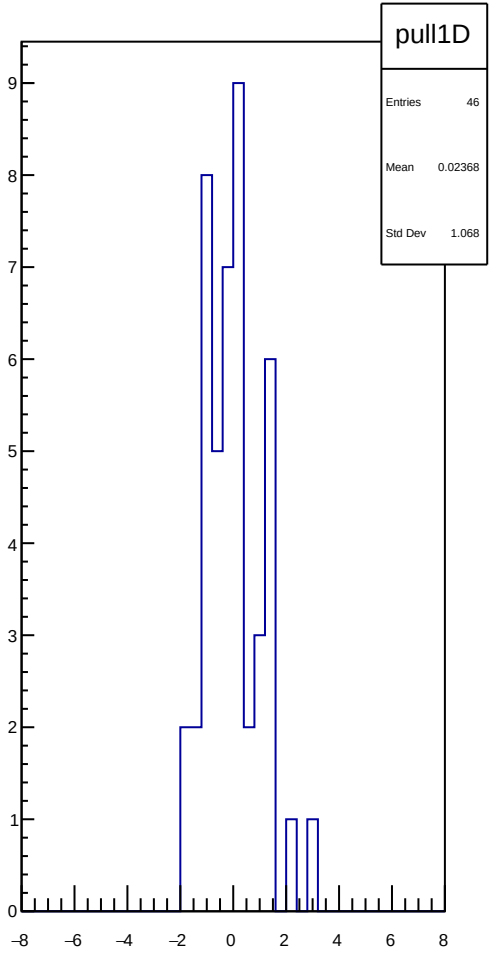

eigen_dit_asym_atr2_rms vs run
χ² / ndf 130.3 / 45
p0 2610 ± 2.724
2700
2680
2660
2640
2620
2600
2580
2560
2540
2520
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

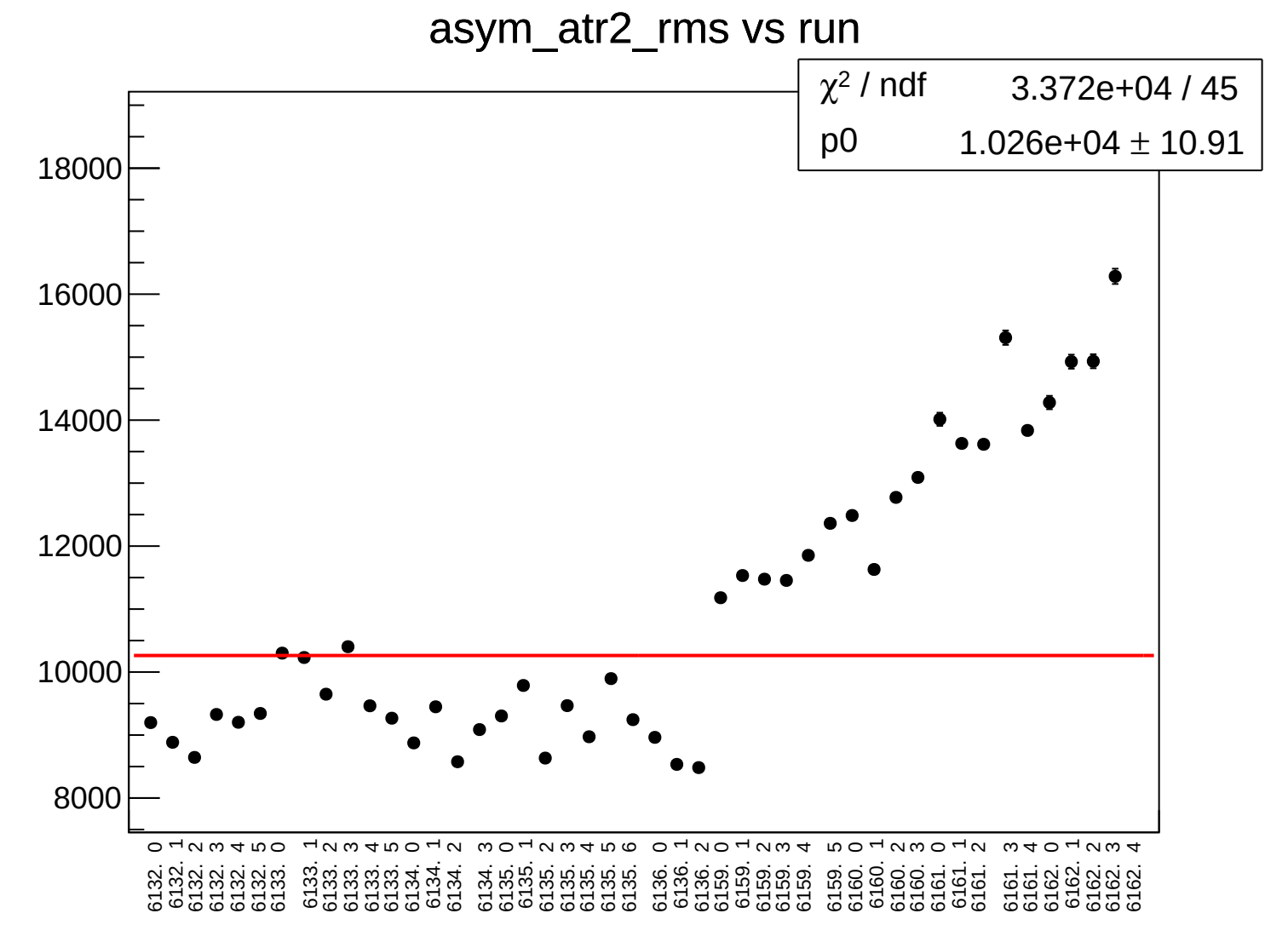

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 49.81 / 45
p0 5278 ± 1.496e+04
pull
Entries 46
Mean 159.1
Std Dev 0

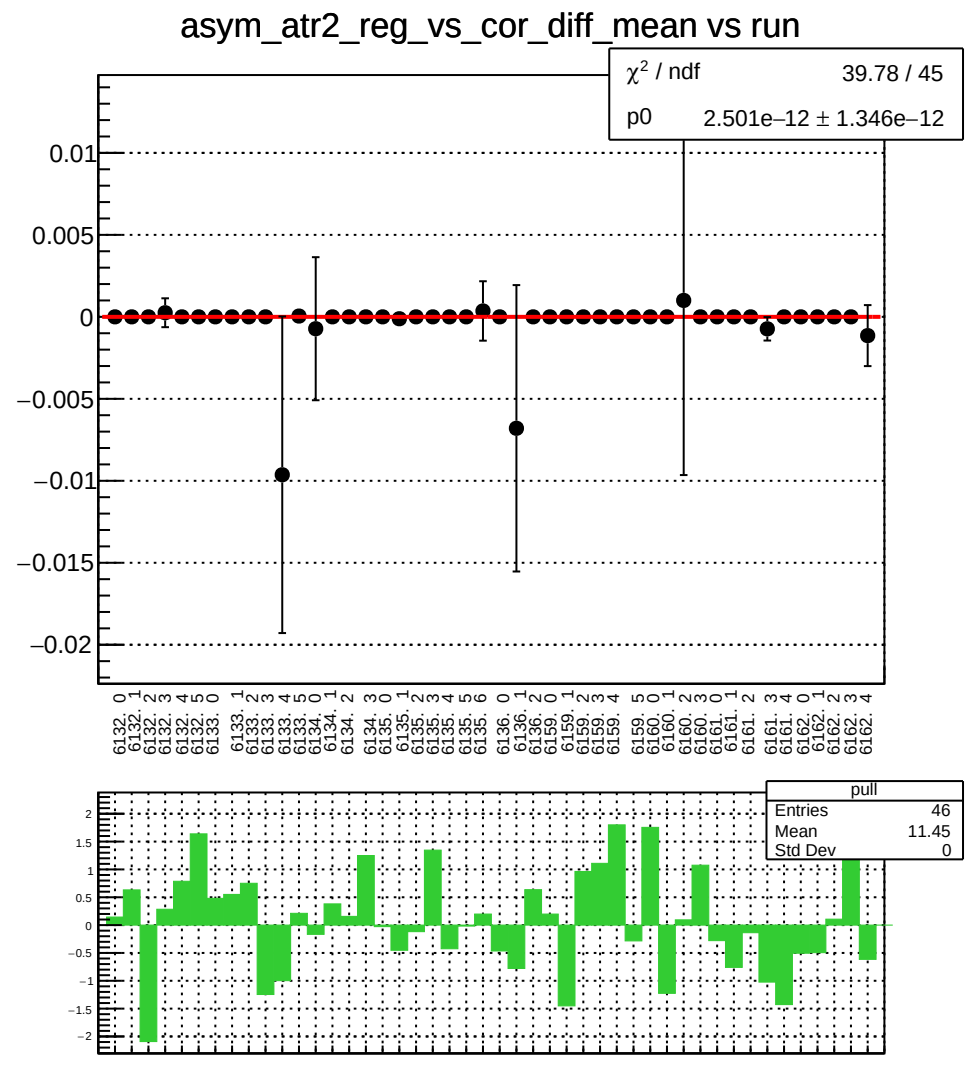

pull1D
Entries 46
Mean −0.03312
Std Dev 1.04

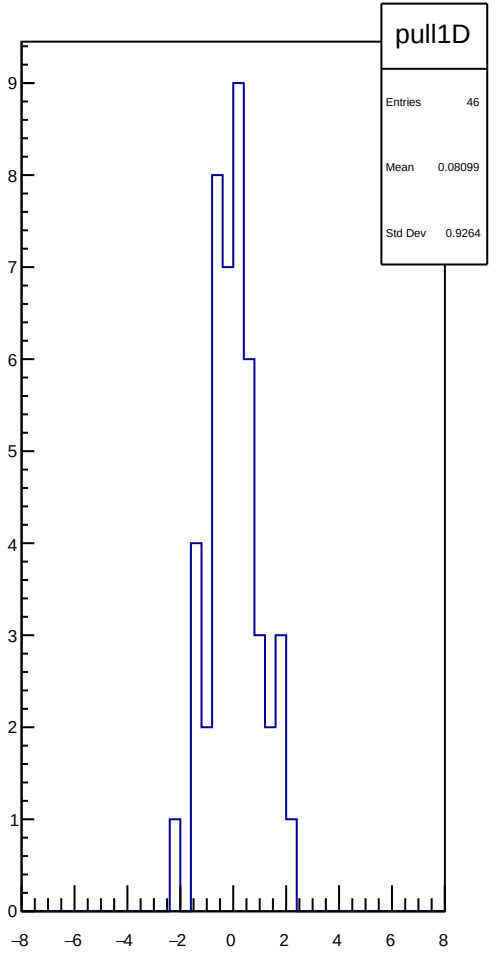

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 3.67e+04 / 45
p0 9932 ± 10.58
18000
16000
14000
12000
10000
8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

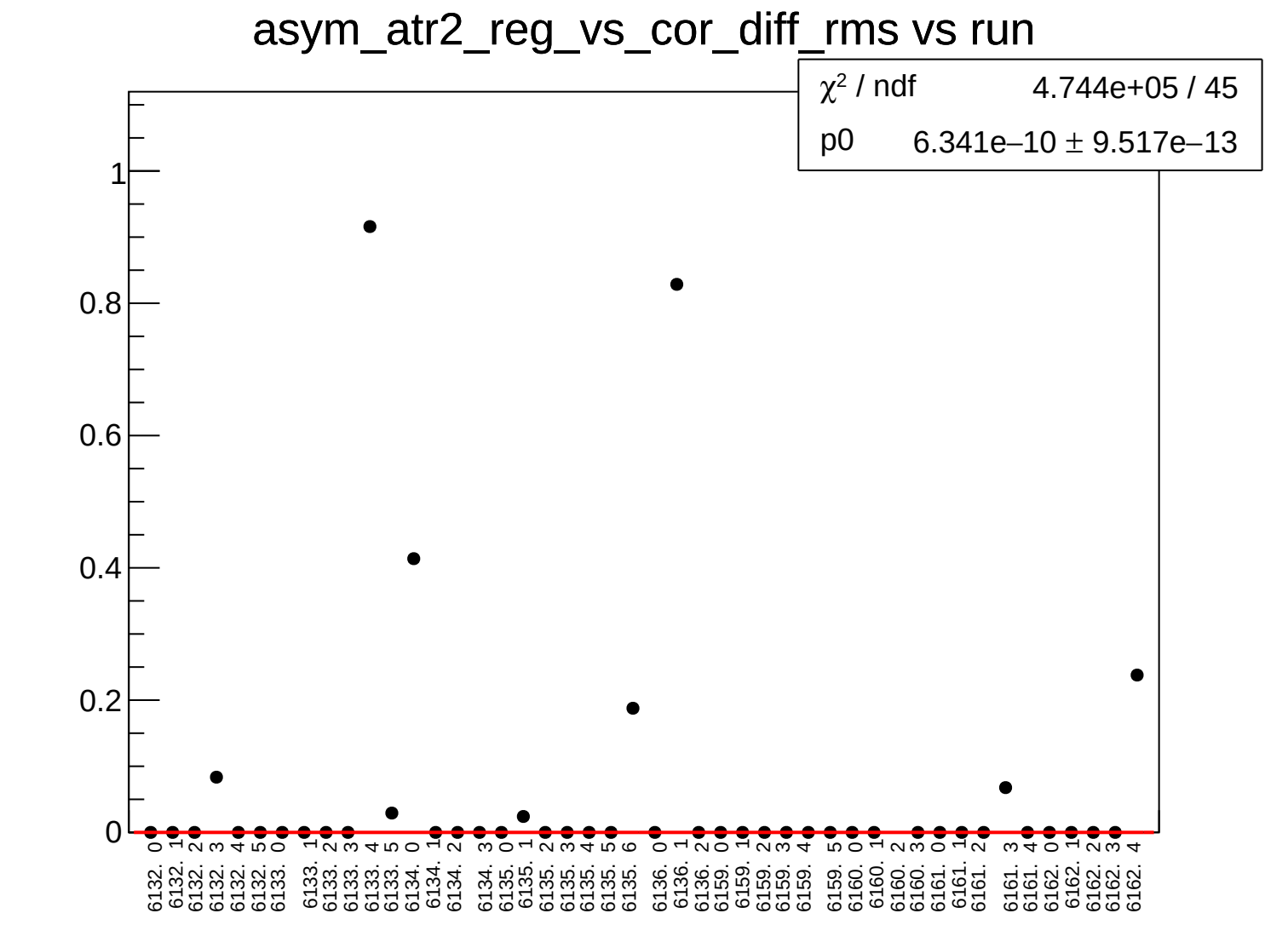

asym_atr2_mean vs run
×10^3
χ² / ndf 52.54 / 45
p0 −7660 ± 1.543e+04
400
300
200
100
0
−100
−200
−300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 205
Std Dev 0
3
2
1
0
−1
−2

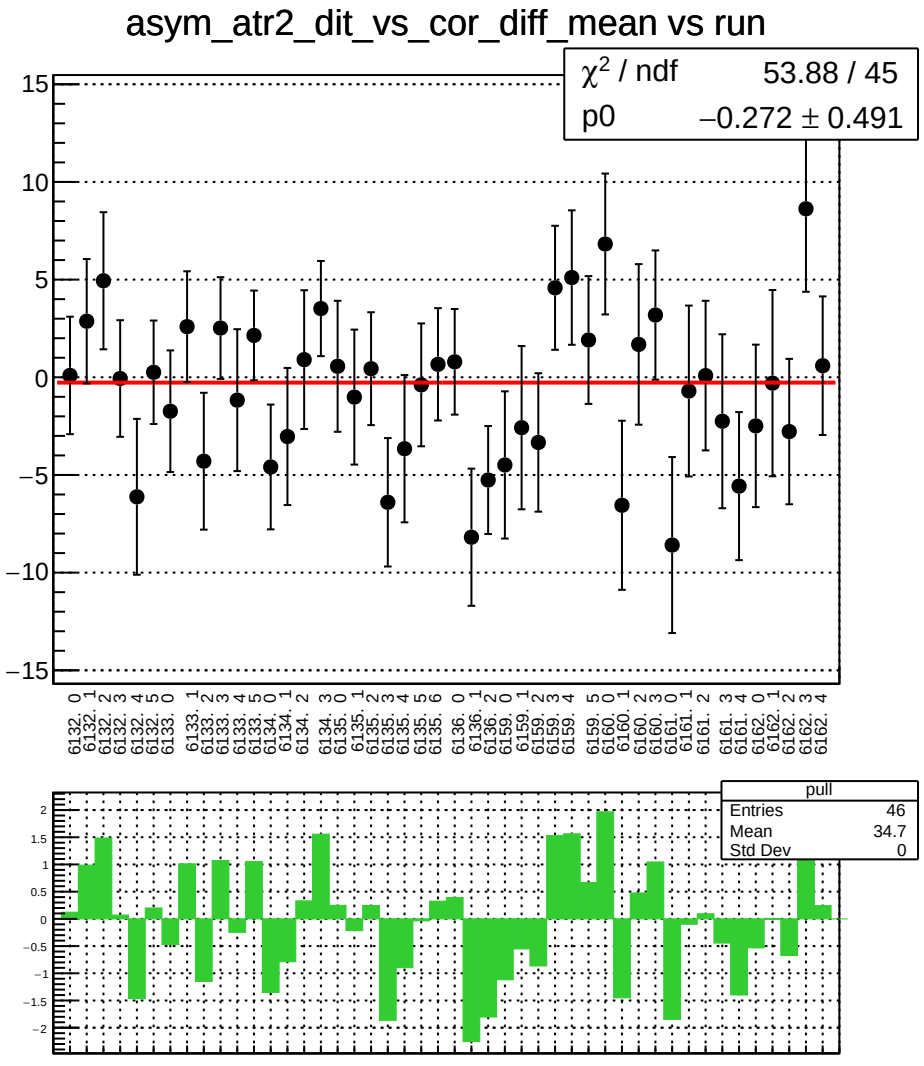

pull1D
Entries 46
Mean 0.02368
Std Dev 1.068
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

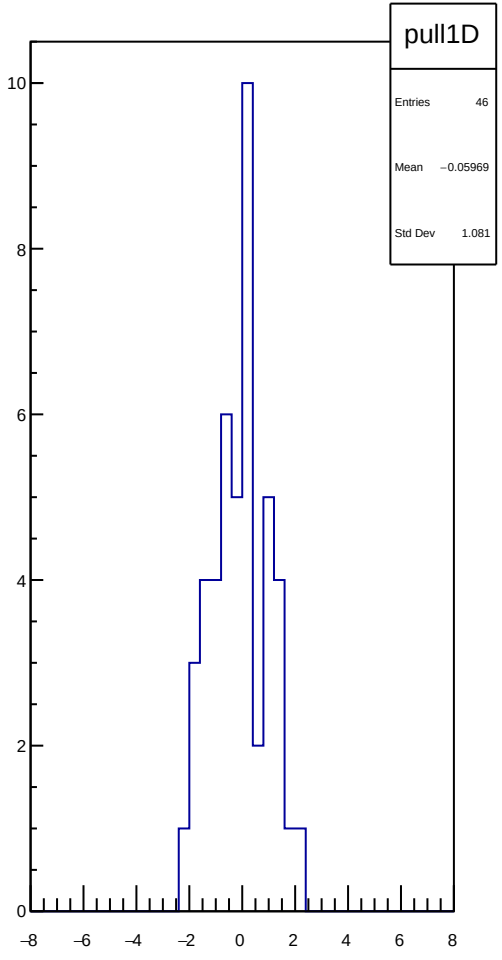

asym_atr2_rms vs run
χ² / ndf 3.372e+04 / 45
p0 1.026e+04 ± 10.91
18000
16000
14000
12000
10000
8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

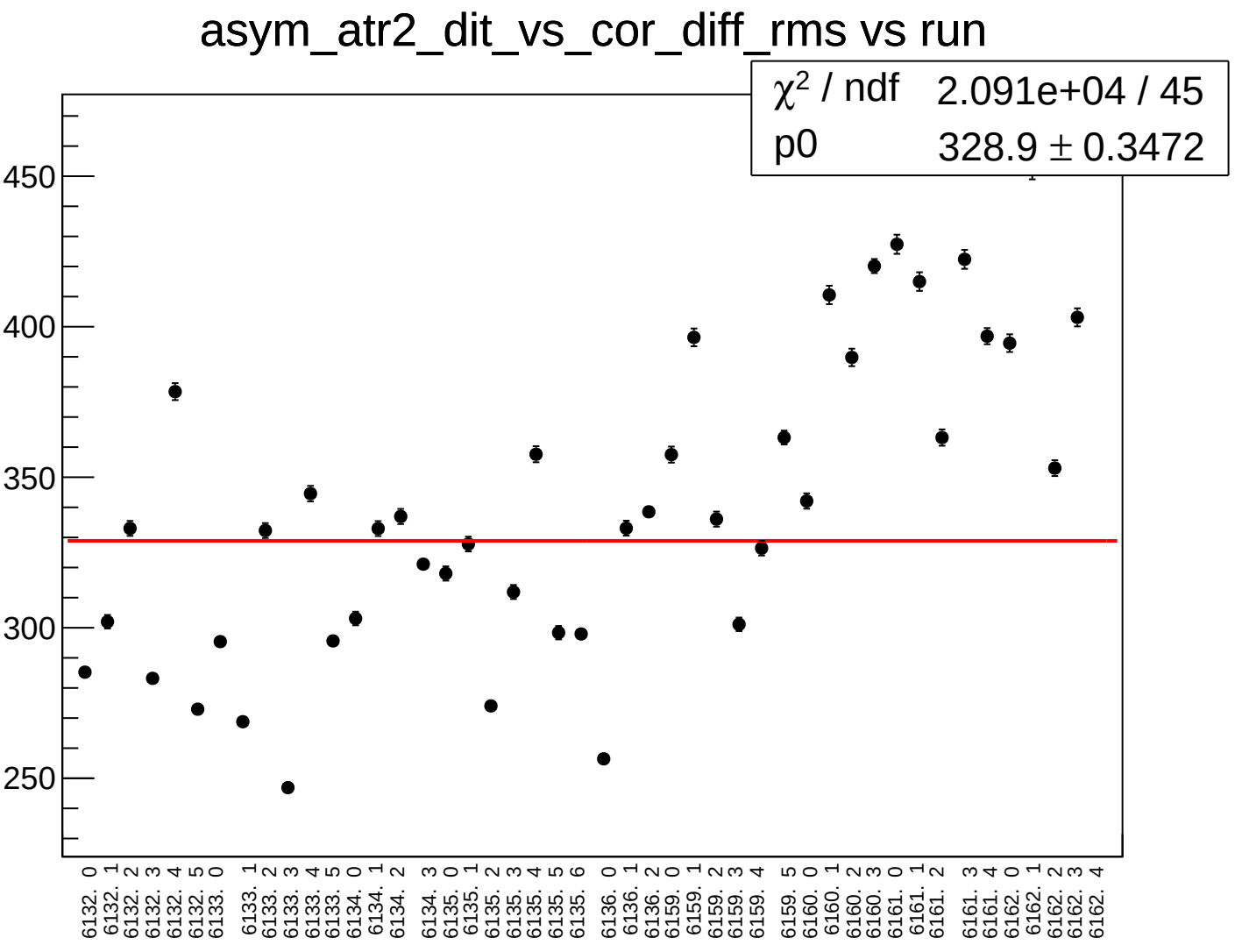

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 39.78 / 45
p0 2.501e−12 ± 1.346e−12
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 11.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.08099
Std Dev 0.9264
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 4.744e+05 / 45
p0 6.341e−10 ± 9.517e−13
1
0.8
0.6
0.4
0.2
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 53.88 / 45
p0 −0.272 ± 0.491
pull
Entries 46
Mean 34.7
Std Dev 0


pull1D
Entries 46
Mean −0.05969
Std Dev 1.081


asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.091e+04 / 45
p0 328.9 ± 0.3472
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
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6135. 6
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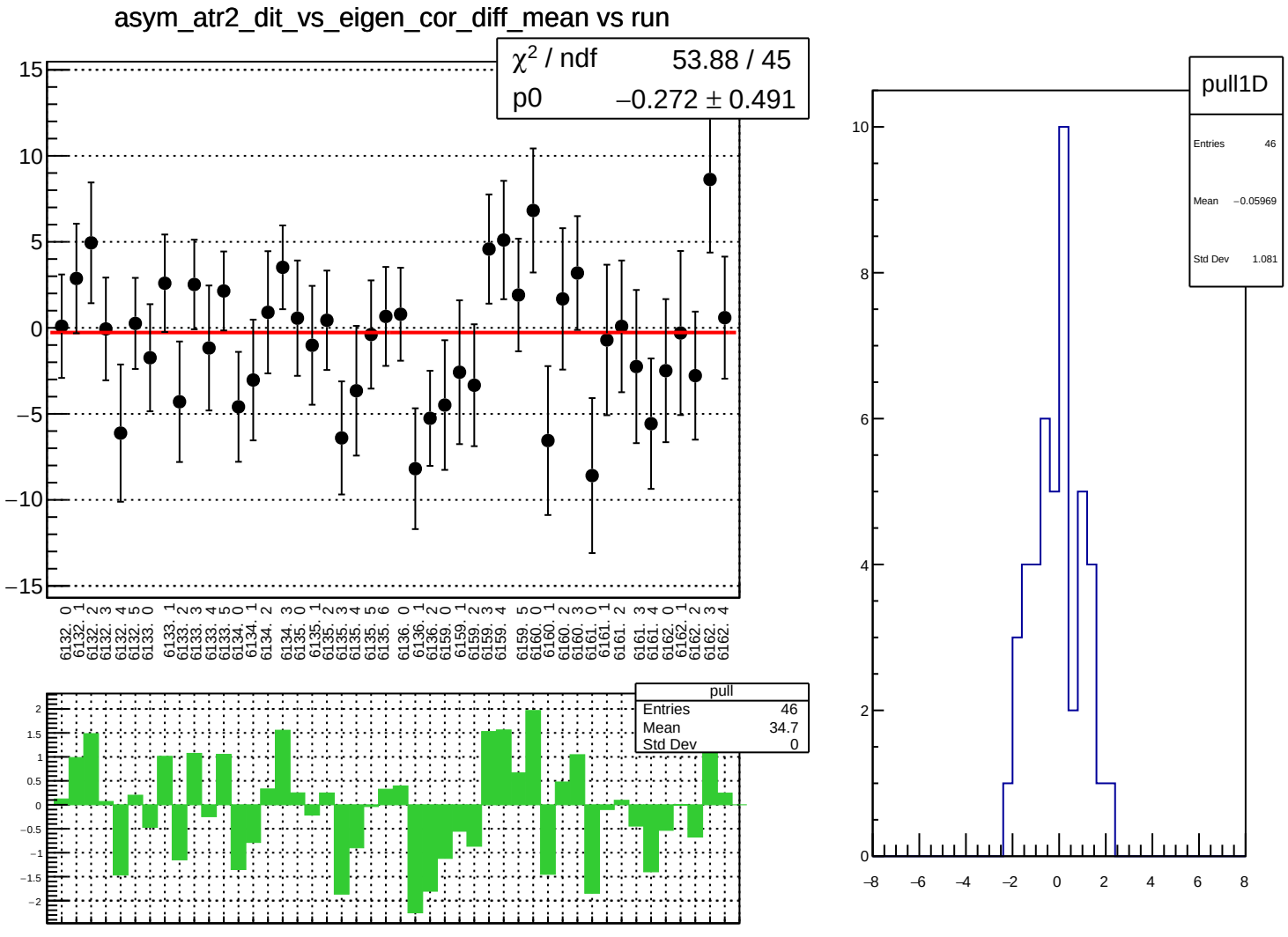
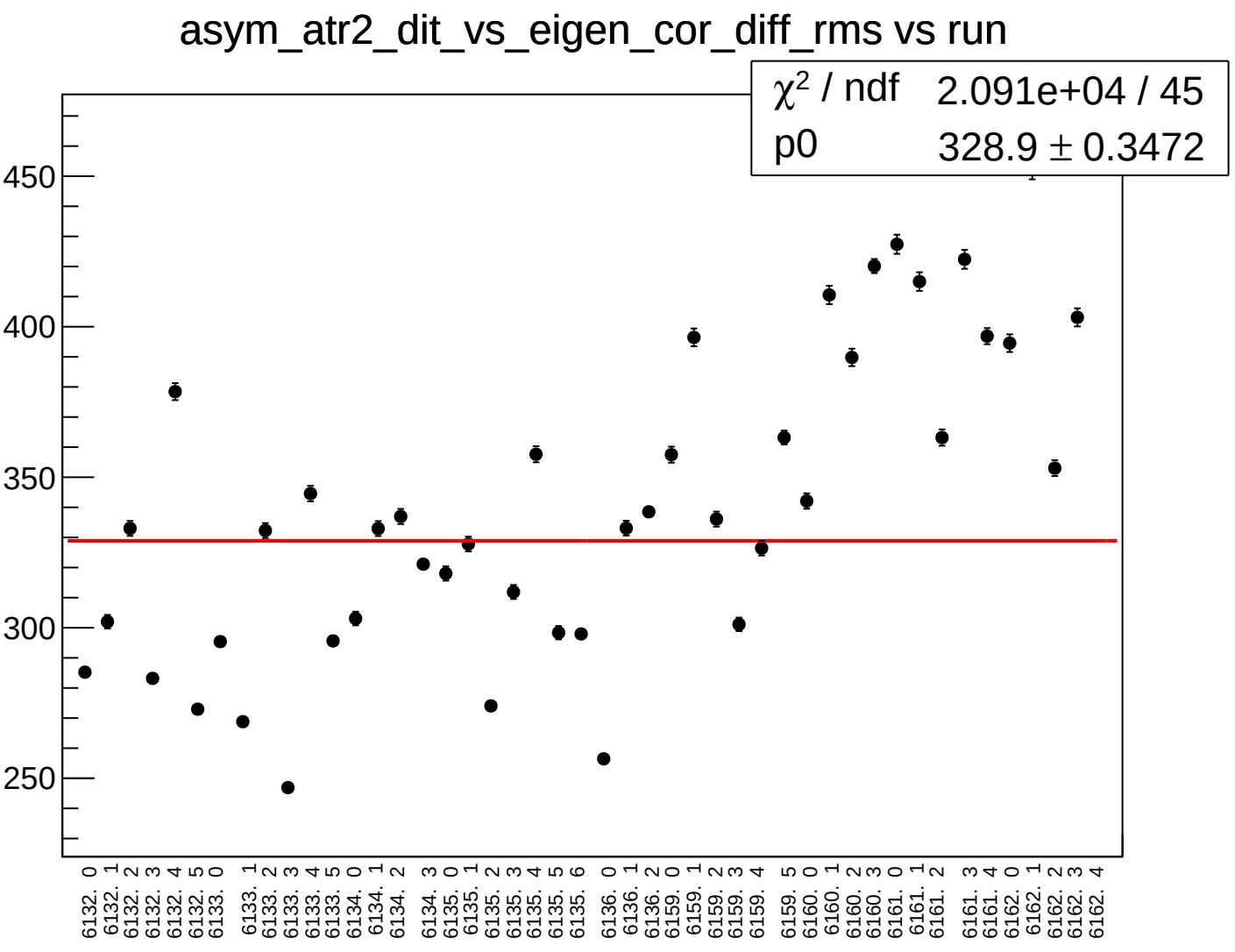
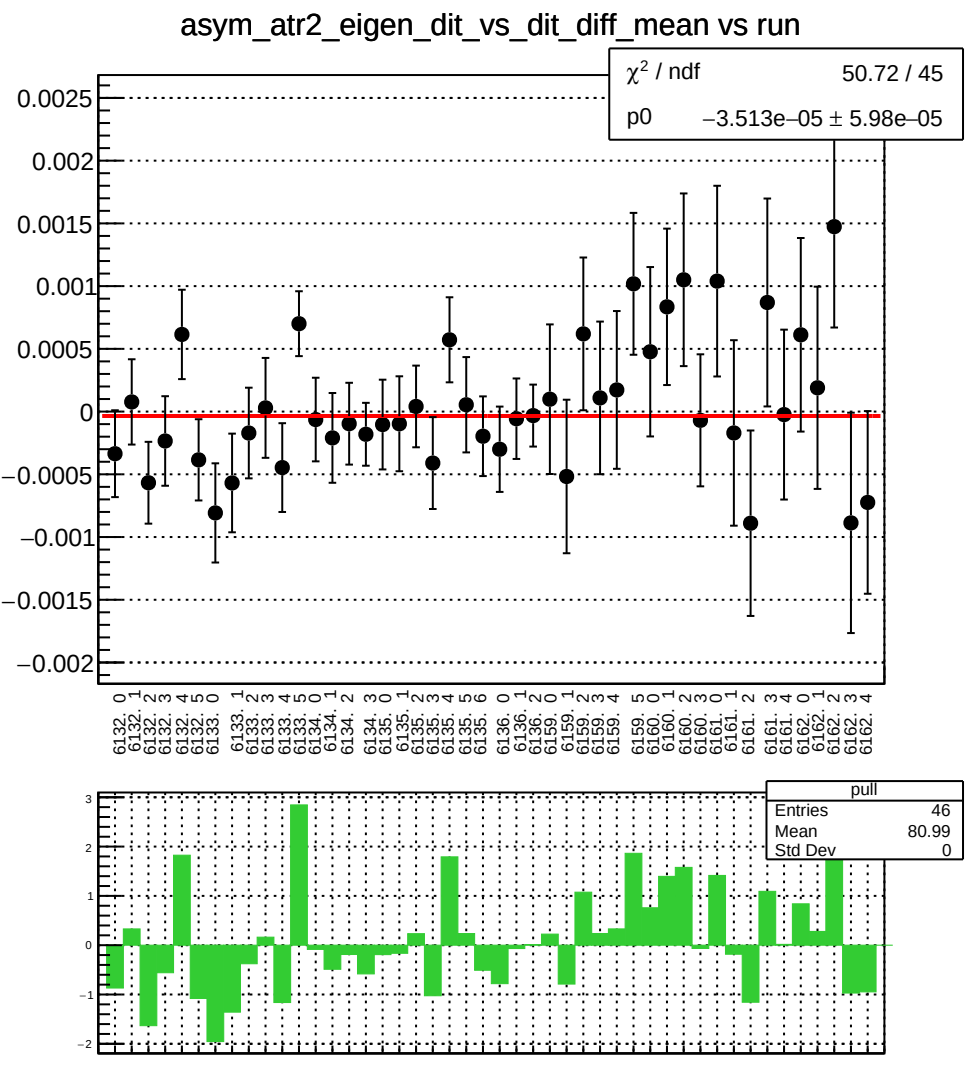
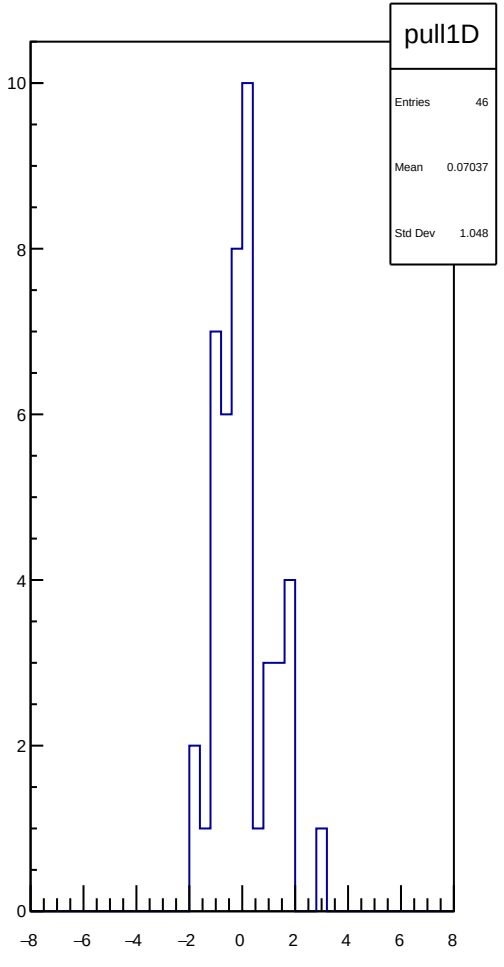
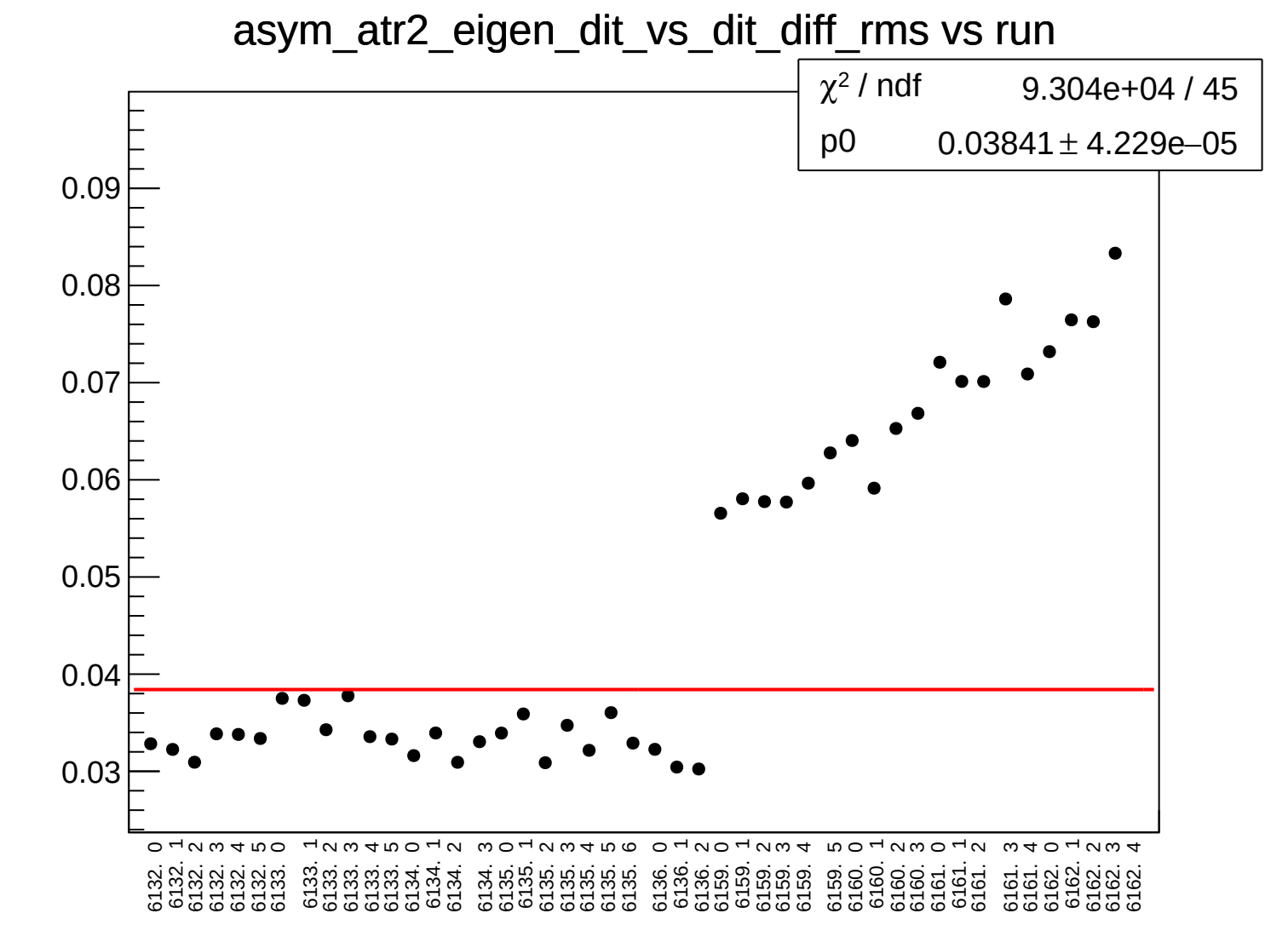
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 53.88 / 45
p0 −0.272 ± 0.491
pull
Entries 46
Mean 34.7
Std Dev 0
pull1D
Entries 46
Mean −0.05969
Std Dev 1.081


asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.091e+04 / 45
p0 328.9 ± 0.3472
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 50.72 / 45
p0 −3.513e−05 ± 5.98e−05
pull
Entries 46
Mean 80.99
Std Dev 0


pull1D
Entries 46
Mean 0.07037
Std Dev 1.048


asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.304e+04 / 45
p0 0.03841 ± 4.229e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 0
6135. 1
6135. 2
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6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
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6159. 1
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6159. 3
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6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
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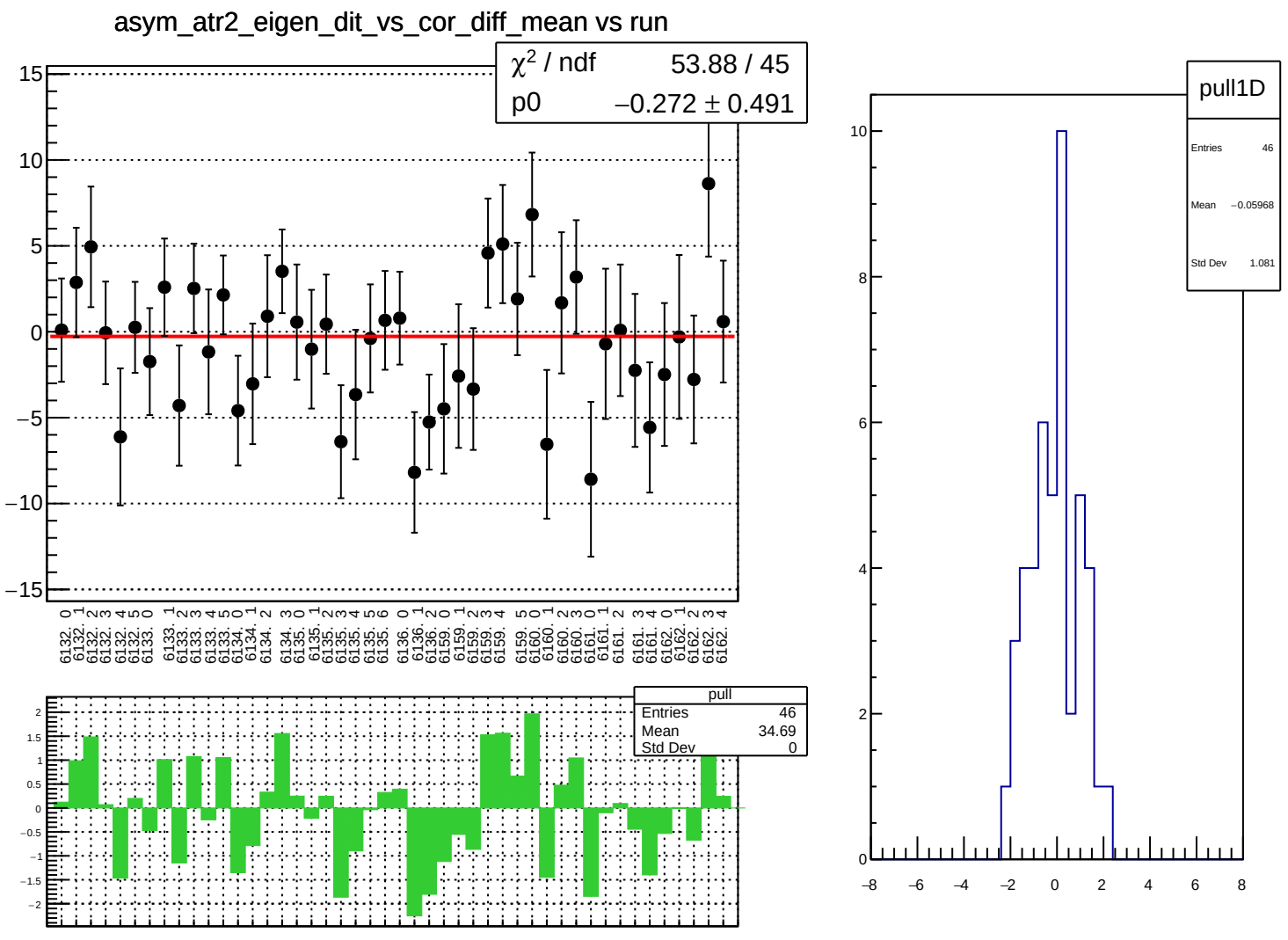
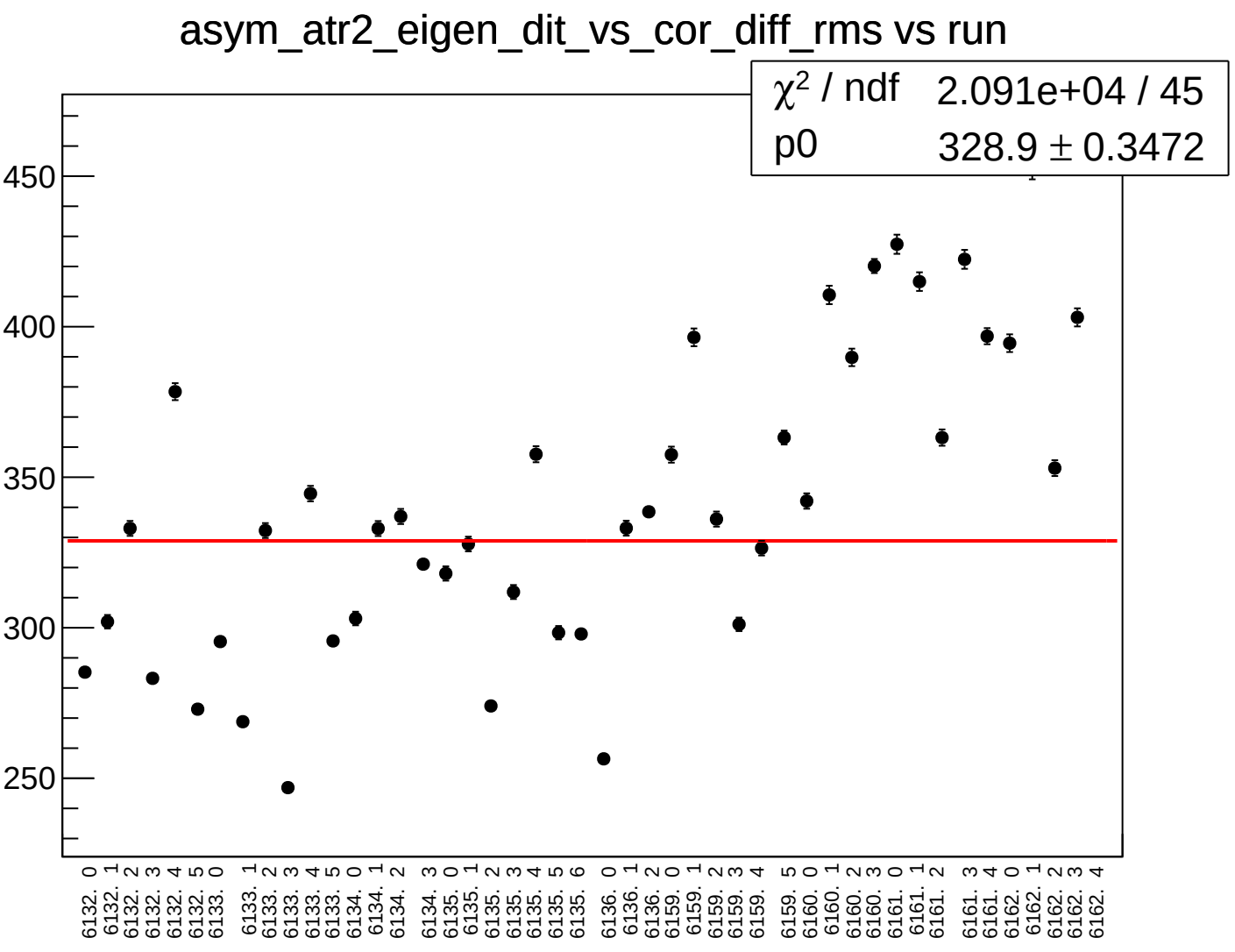
6162. 4


asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 53.88 / 45
p0 −0.272 ± 0.491
pull
Entries 46
Mean 34.69
Std Dev 0
pull1D
Entries 46
Mean −0.05968
Std Dev 1.081


asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.091e+04 / 45
p0 328.9 ± 0.3472
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 1
6161. 2
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6161. 4
6162. 0
6162. 1
6162. 2
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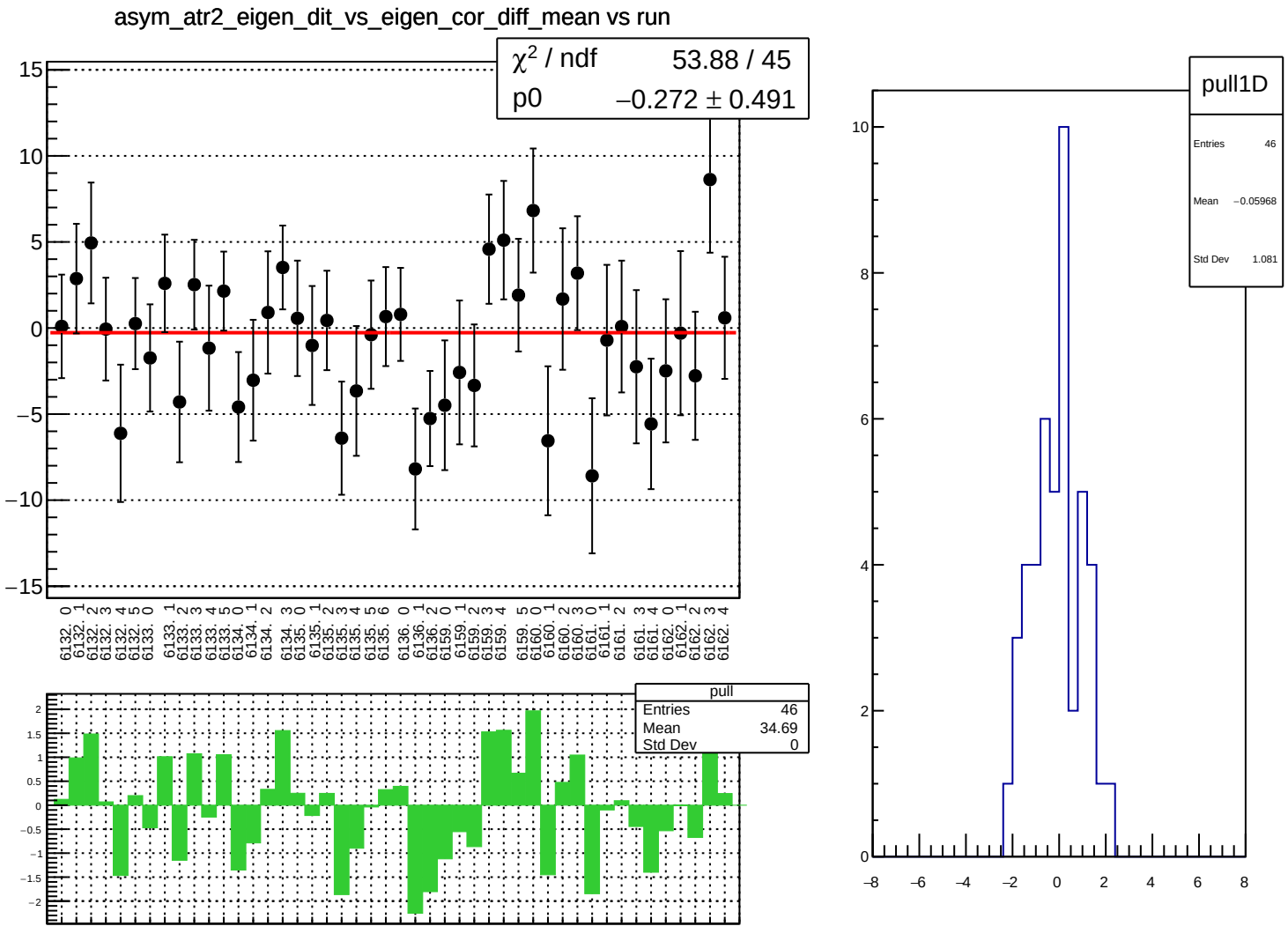
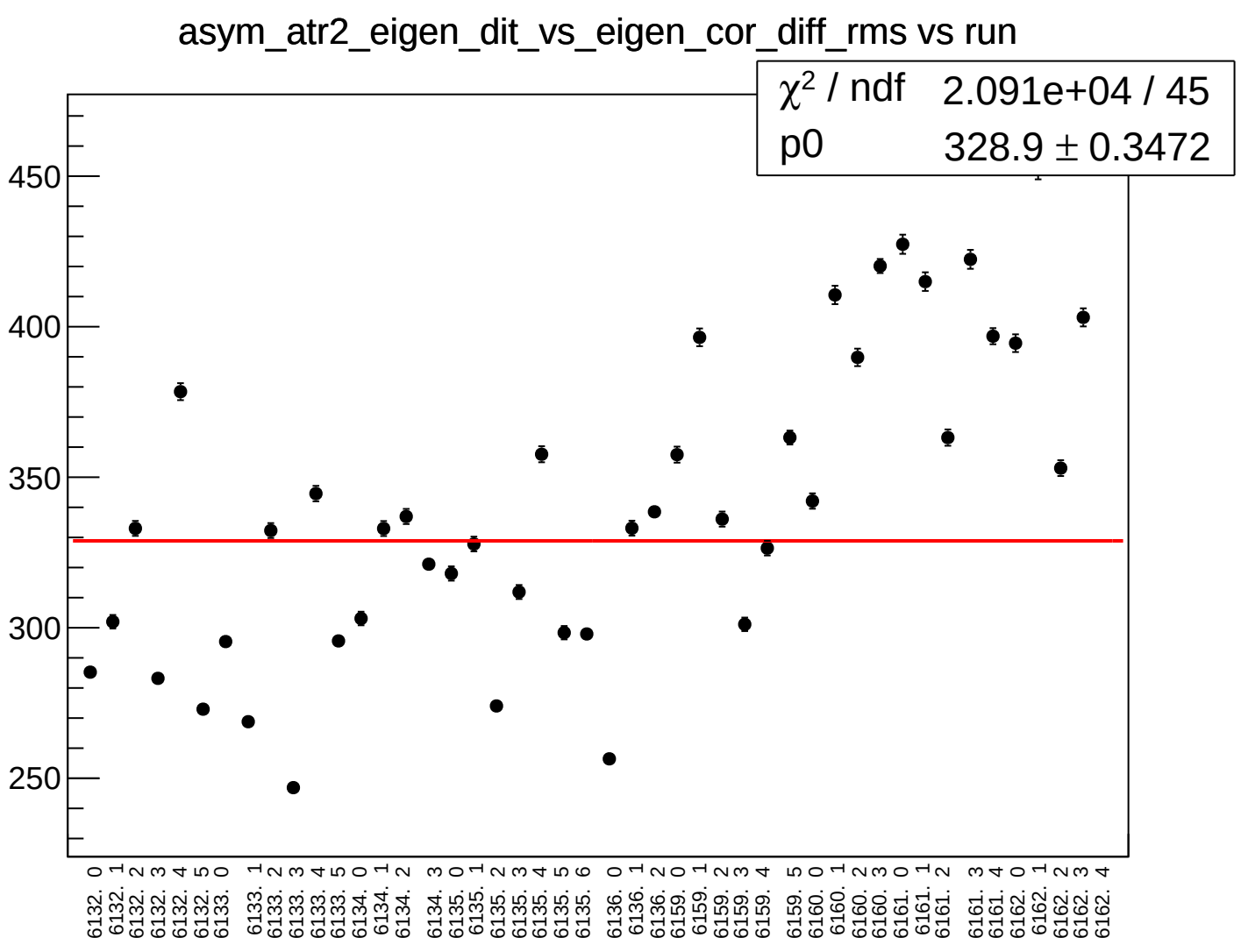
6162. 4


asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 53.88 / 45
p0 −0.272 ± 0.491
pull
Entries 46
Mean 34.69
Std Dev 0
pull1D
Entries 46
Mean −0.05968
Std Dev 1.081


asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.091e+04 / 45
p0 328.9 ± 0.3472
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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6159. 2
6159. 3
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6159. 5
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6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
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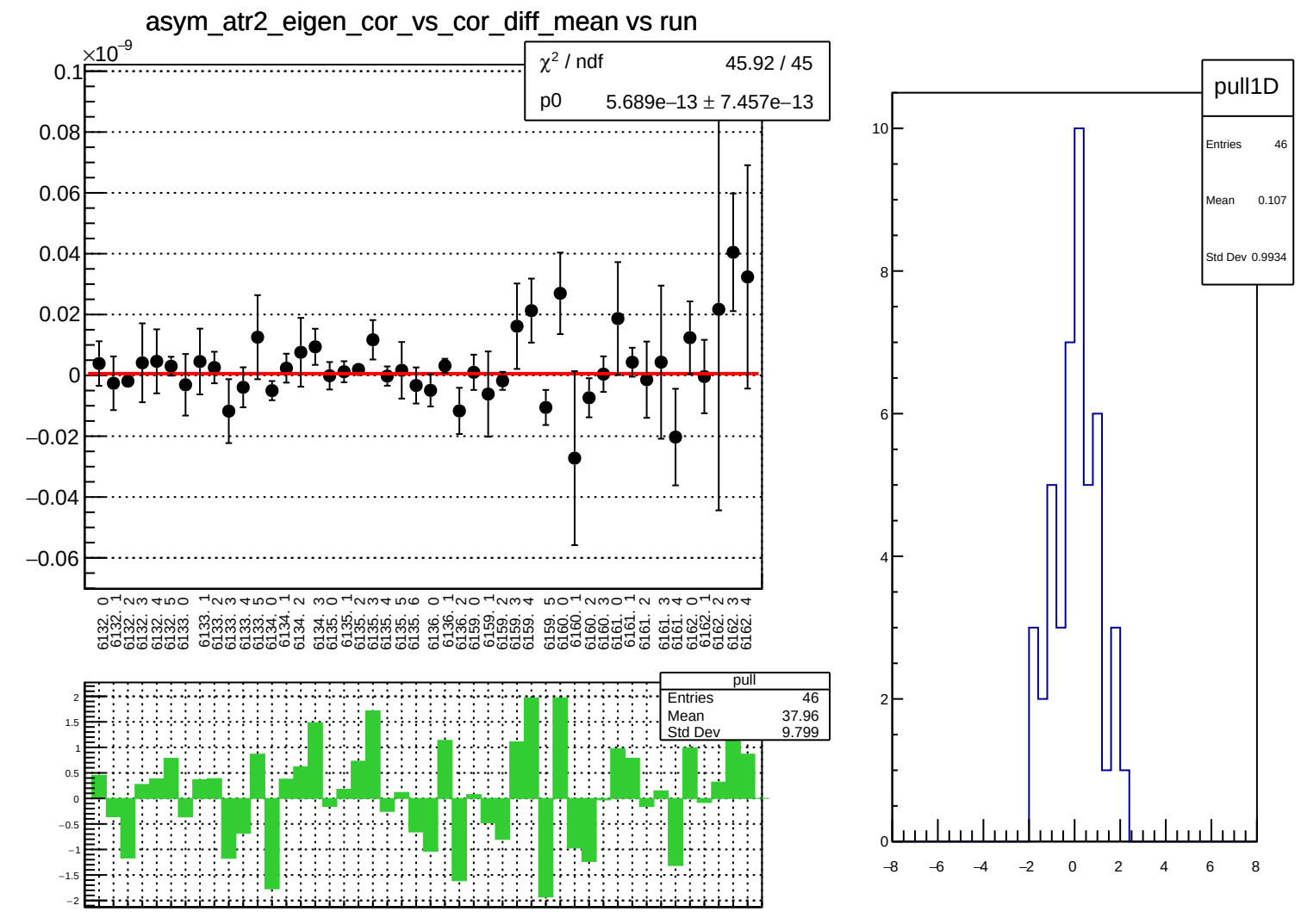
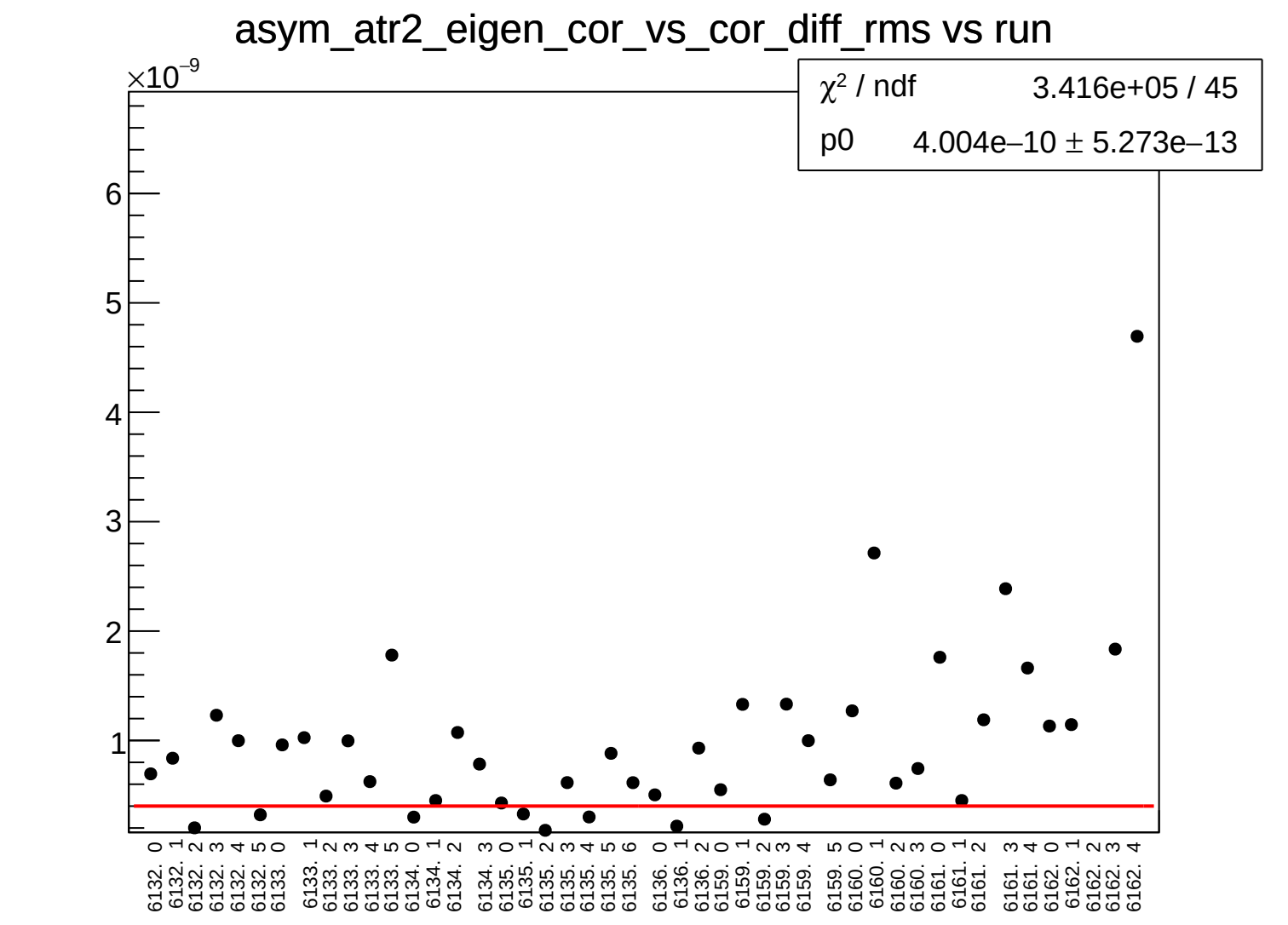

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 45.92 / 45
p0 5.689e−13 ± 7.457e−13
pull
Entries 46
Mean 37.96
Std Dev 9.799
pull1D
Entries 46
Mean 0.107
Std Dev 0.9934


asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.416e+05 / 45
p0 4.004e−10 ± 5.273e−13
1
2
3
4
5
6
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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6161. 4
6162. 0
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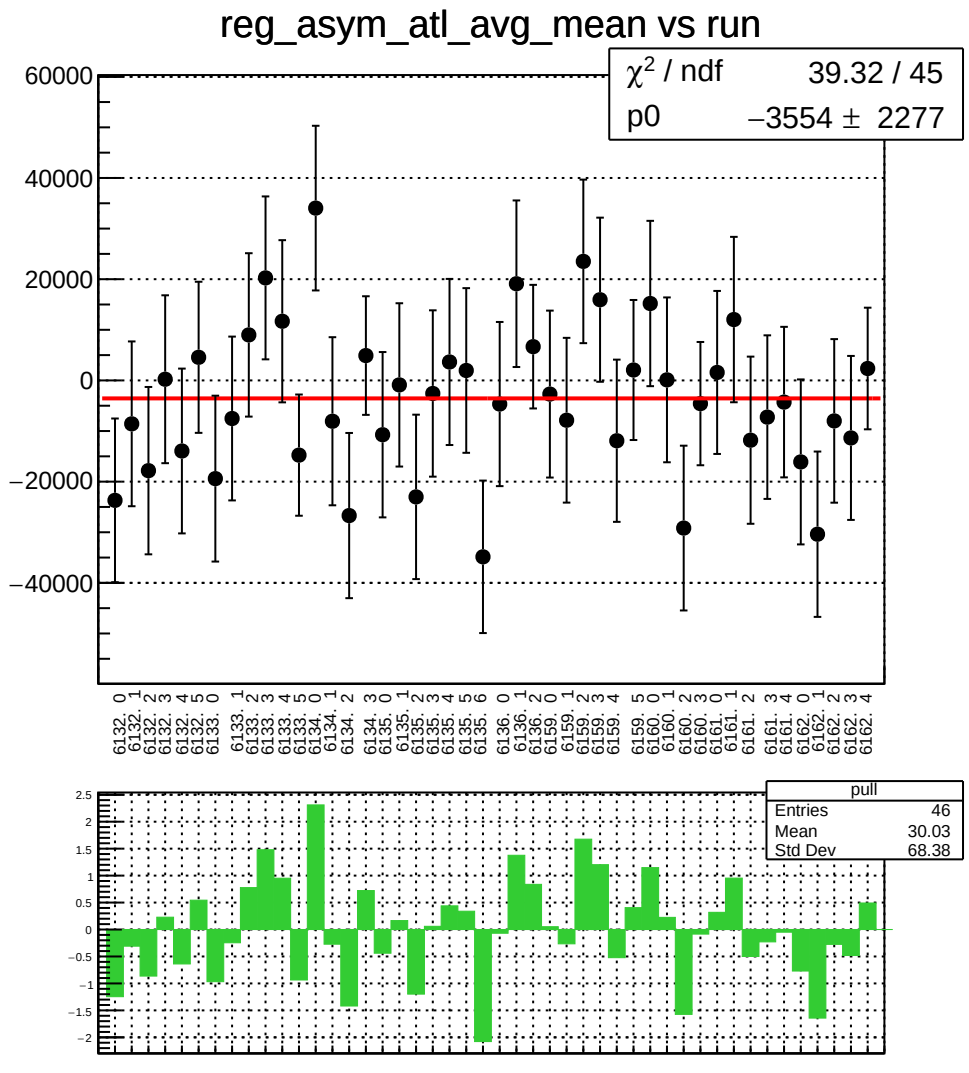
6162. 2
6162. 3
6162. 4


reg_asym_atl_avg_mean vs run
χ² / ndf 39.32 / 45
p0 −3554 ± 2277
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
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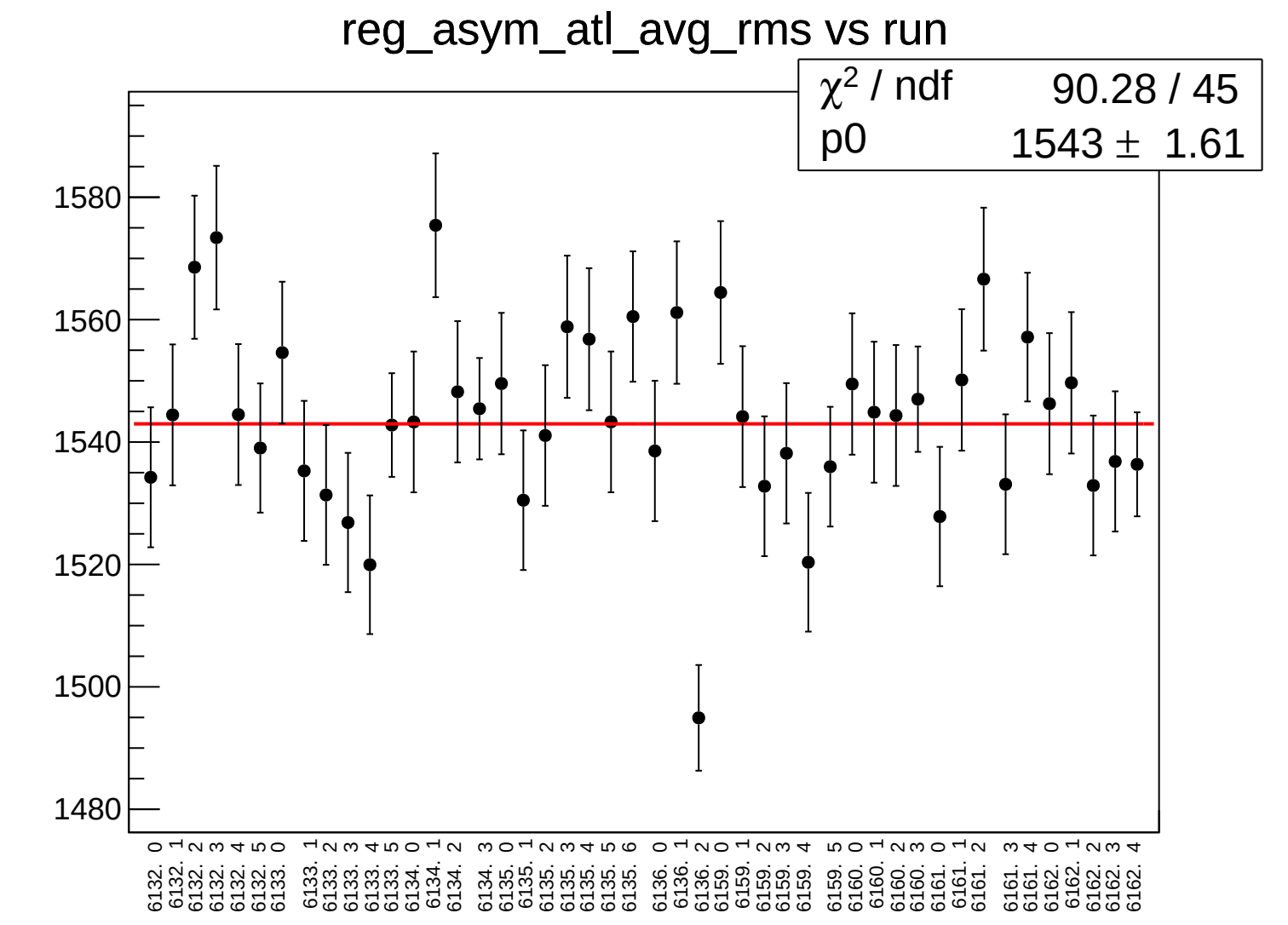
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 30.03
Std Dev 68.38
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.007984
Std Dev 0.9246
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_rms vs run
χ² / ndf 90.28 / 45
p0 1543 ± 1.61
1580
1560
1540
1520
1500
1480
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
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6135. 1
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6136. 0
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6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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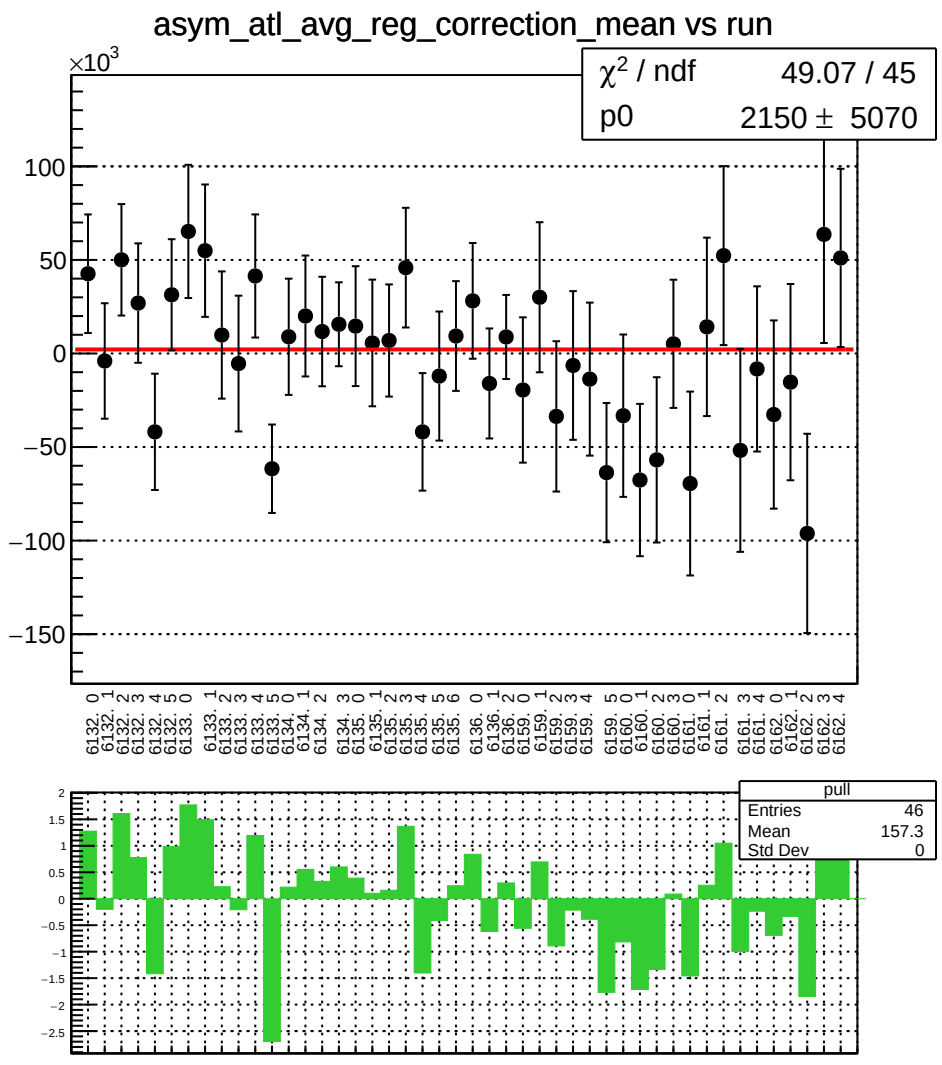
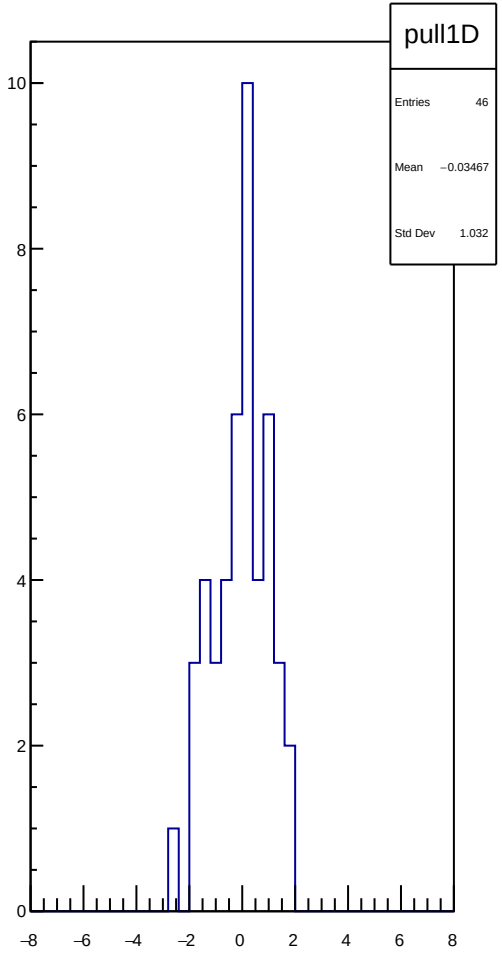
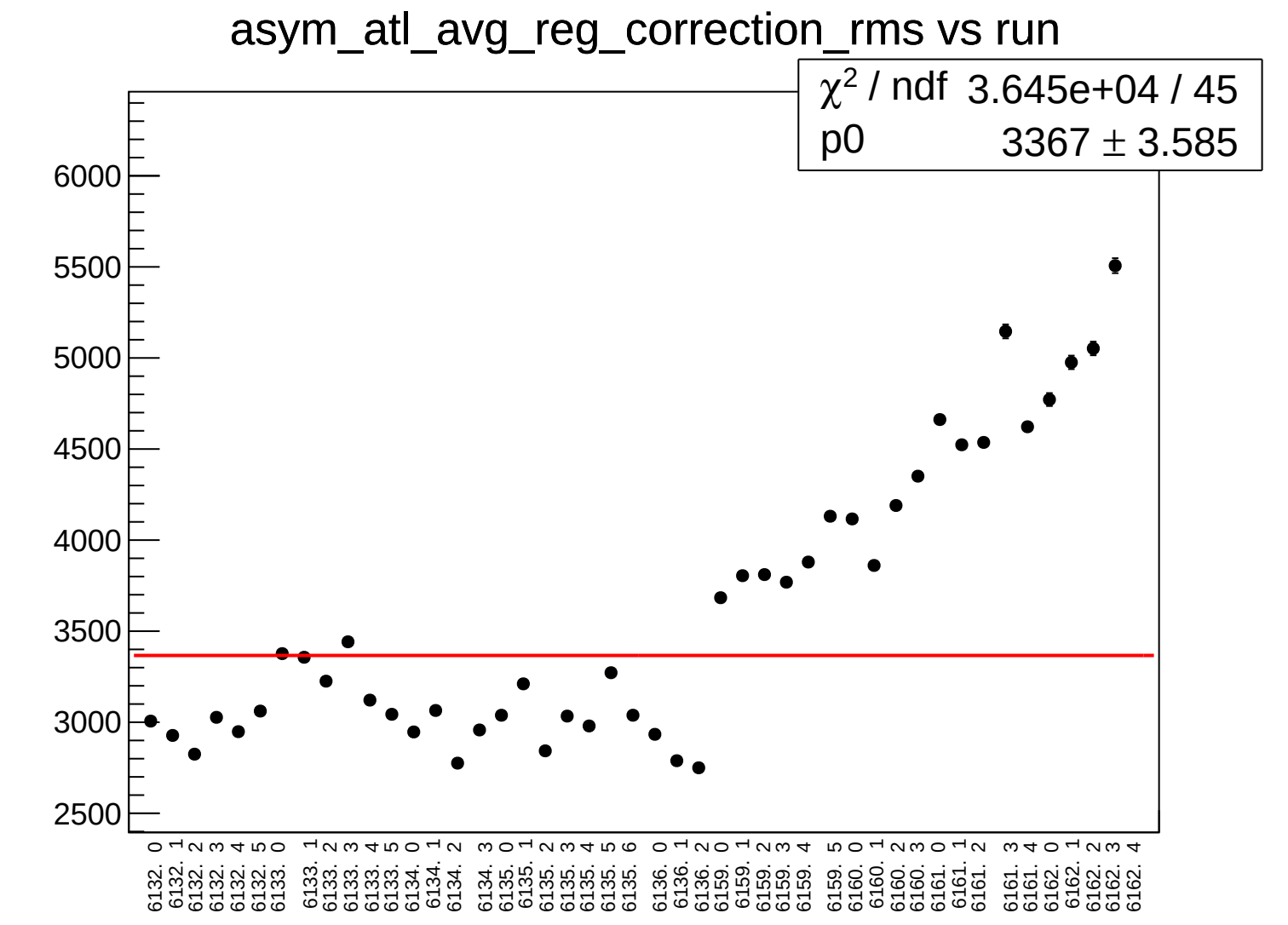
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 49.07 / 45
p0 2150 ± 5070
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 157.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.03467
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_reg_correction_rms vs run
χ² / ndf 3.645e+04 / 45
p0 3367 ± 3.585
6000
5500
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
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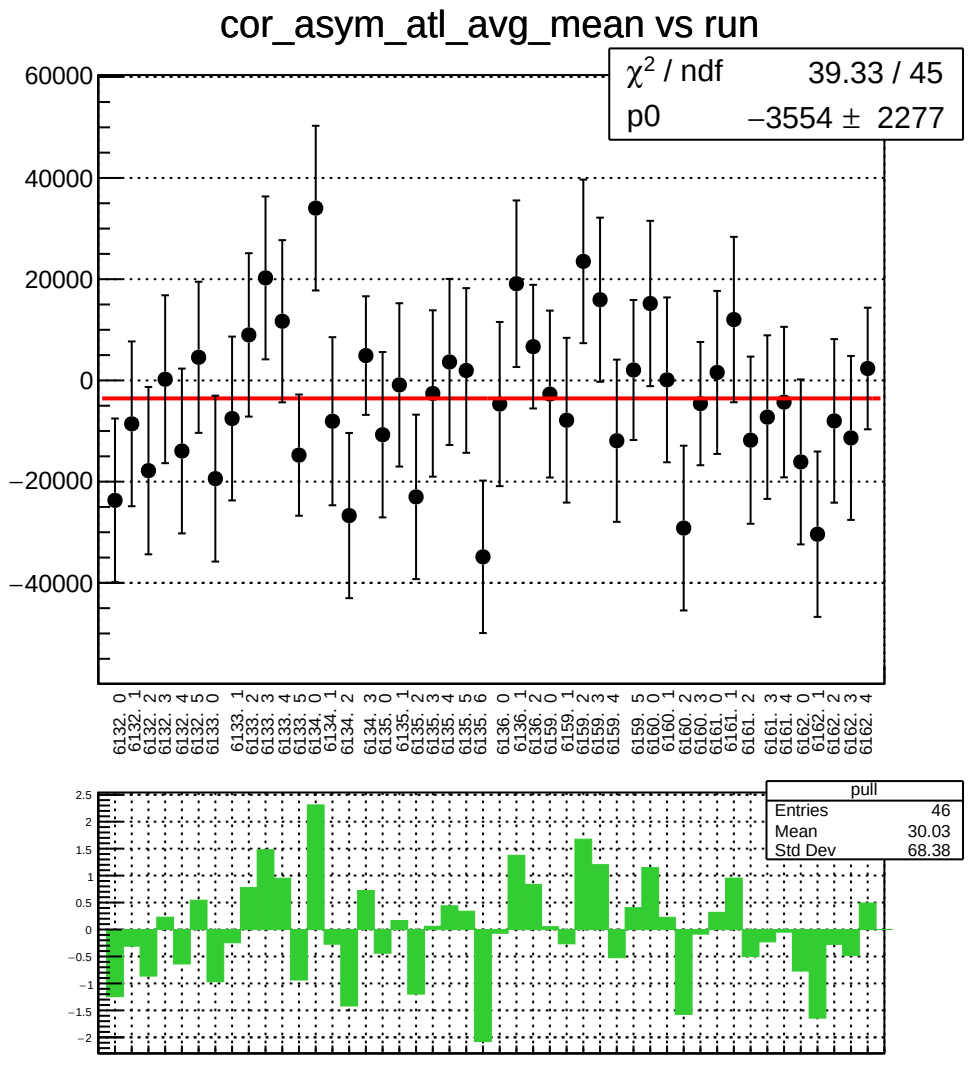
6162. 3
6162. 4


cor_asym_atl_avg_mean vs run
χ² / ndf 39.33 / 45
p0 −3554 ± 2277
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
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6133. 5
6134. 0
6134. 1
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6134. 3
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6135. 1
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6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 30.03
Std Dev 68.38
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.007984
Std Dev 0.9246
9
8
7
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2
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−8
−6
−4
−2
0
2
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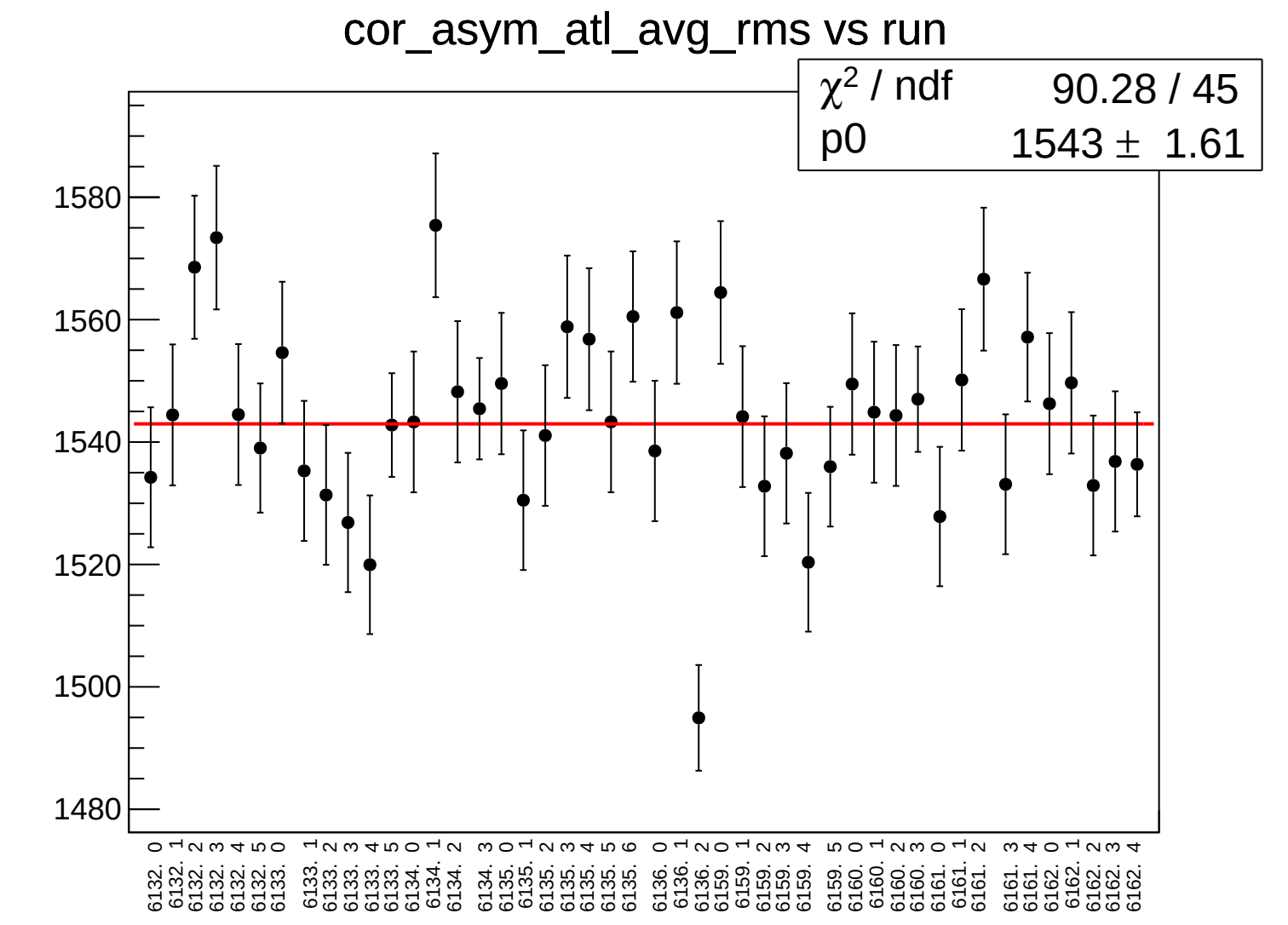
8


cor_asym_atl_avg_rms vs run
χ² / ndf 90.28 / 45
p0 1543 ± 1.61
1580
1560
1540
1520
1500
1480
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6160. 1
6160. 2
6160. 3
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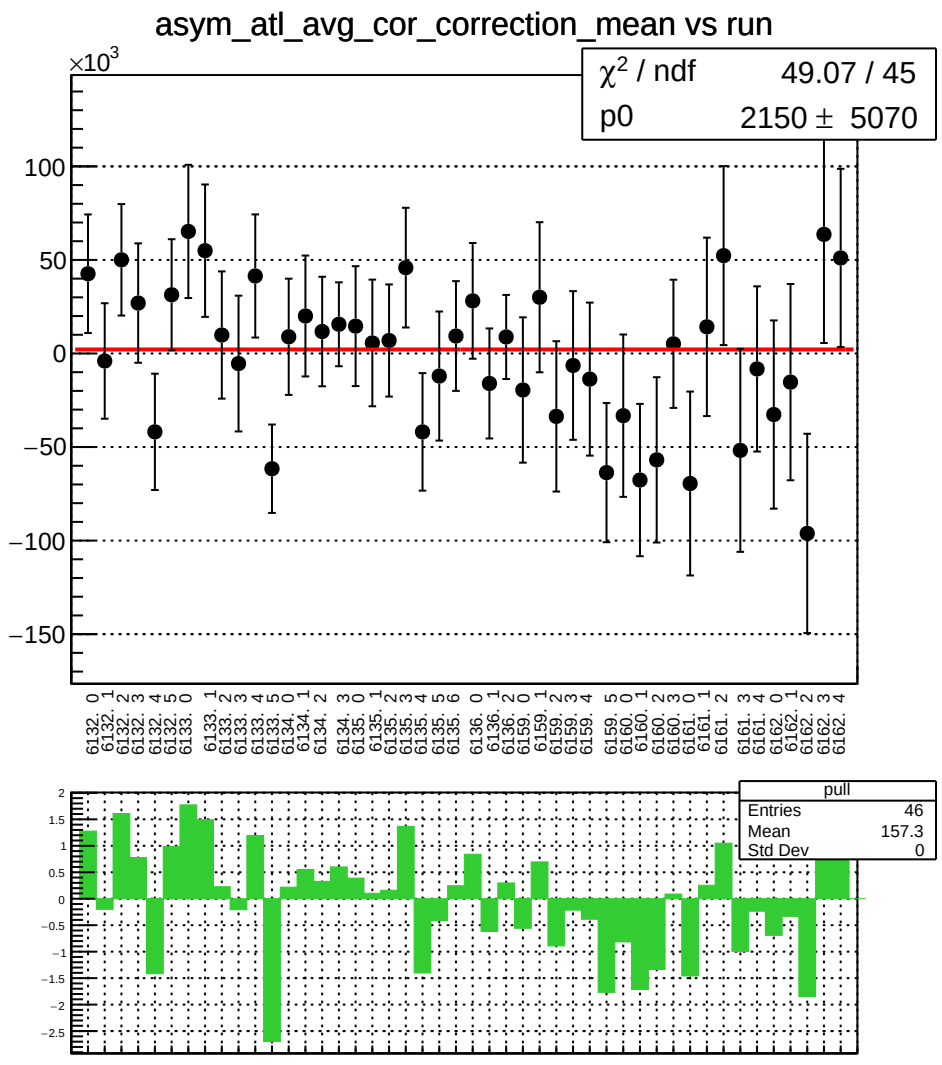
6162. 4


asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 49.07 / 45
p0 2150 ± 5070
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
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6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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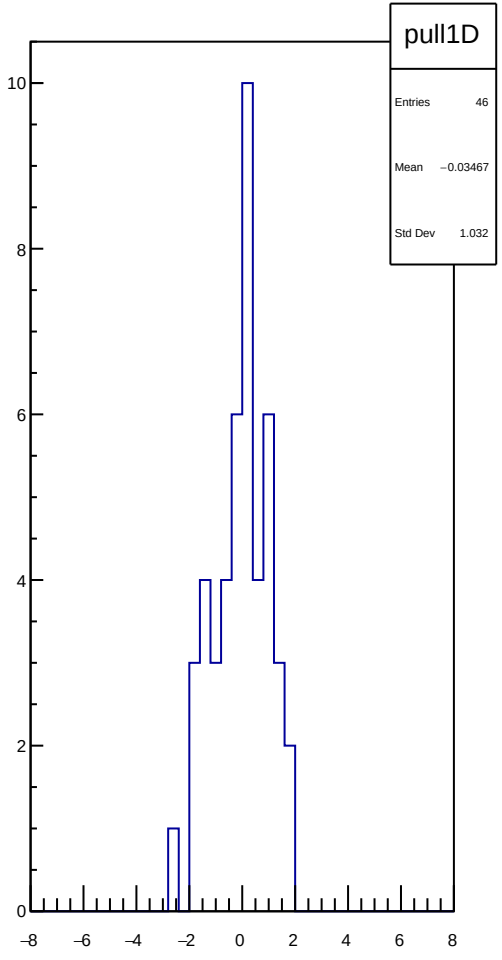
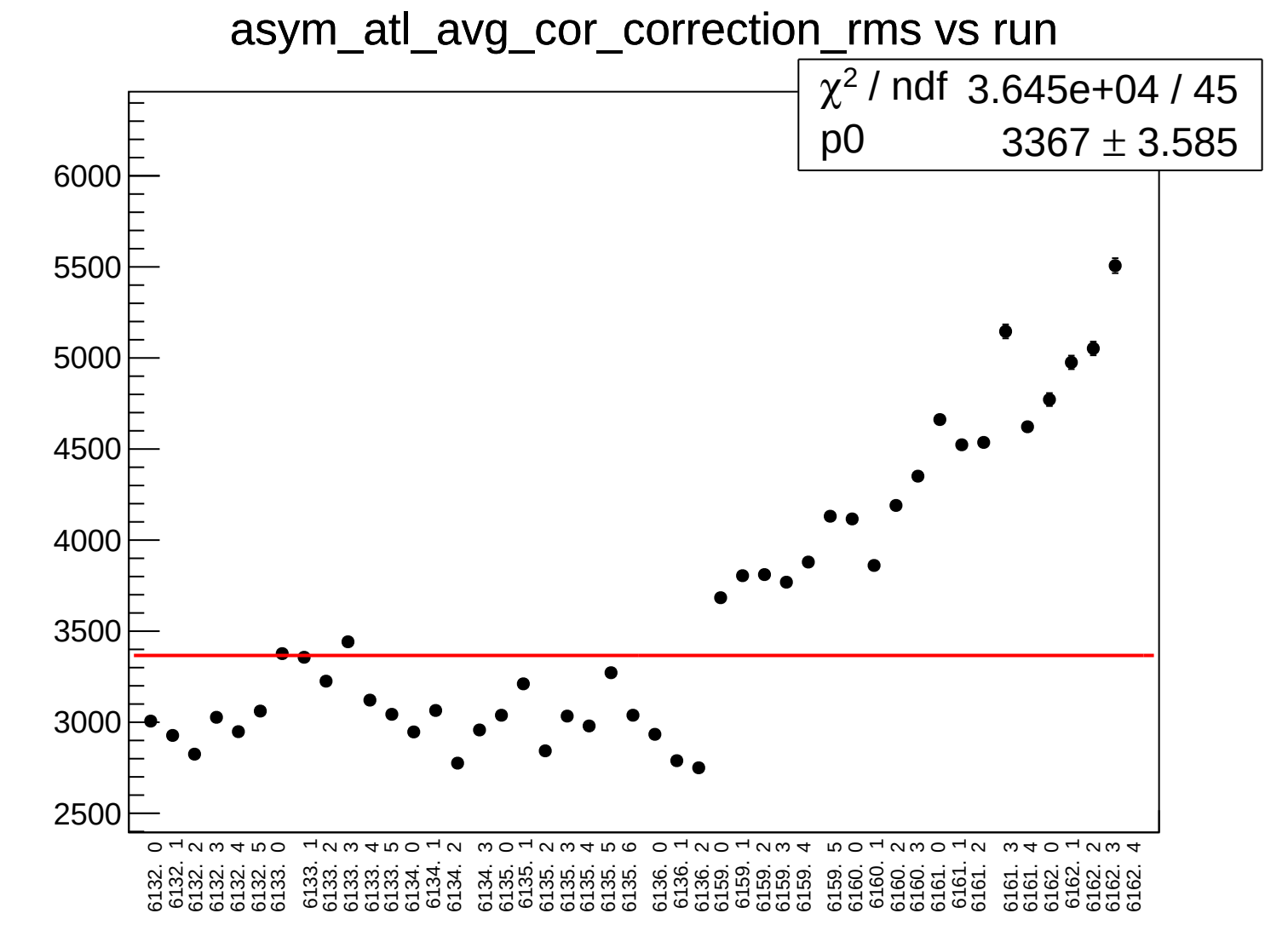
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 157.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.03467
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_cor_correction_rms vs run
χ² / ndf 3.645e+04 / 45
p0 3367 ± 3.585
6000
5500
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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6134. 2
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6135. 1
6135. 2
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6135. 5
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6136. 0
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6159. 4
6159. 5
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6160. 2
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6161. 3
6161. 4
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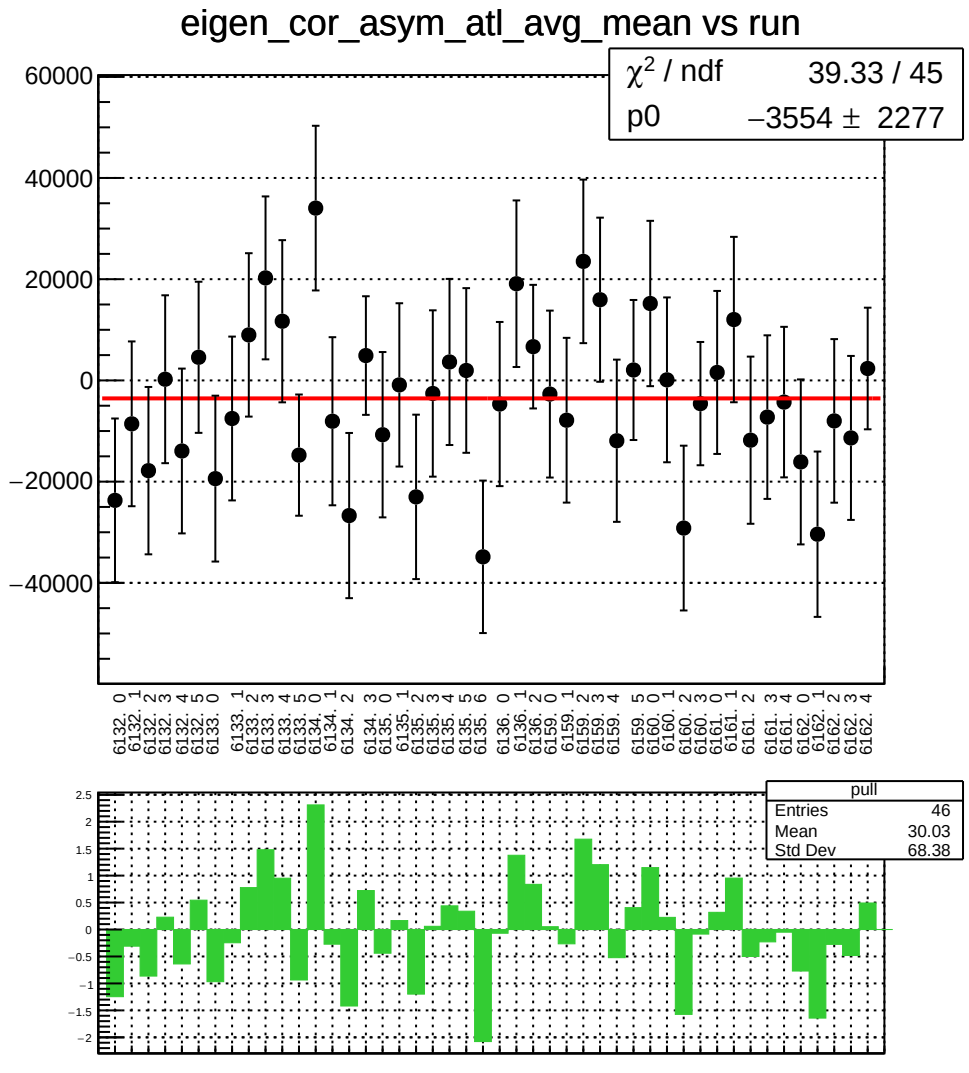
6162. 4


eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 39.33 / 45
p0 −3554 ± 2277
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6160. 2
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6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 30.03
Std Dev 68.38
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.007984
Std Dev 0.9246
9
8
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−4
−2
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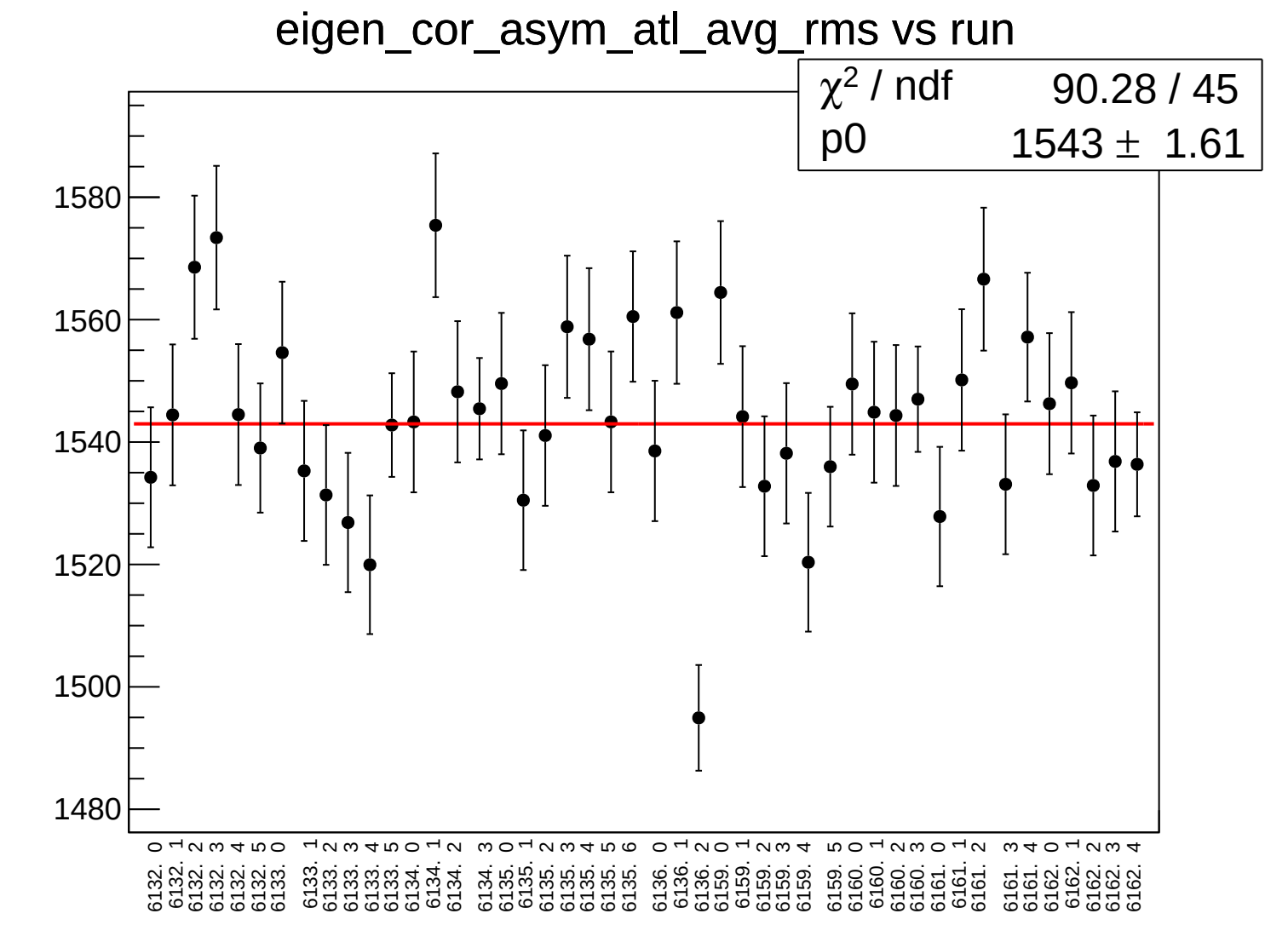
eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 90.28 / 45
p0 1543 ± 1.61
1580
1560
1540
1520
1500
1480
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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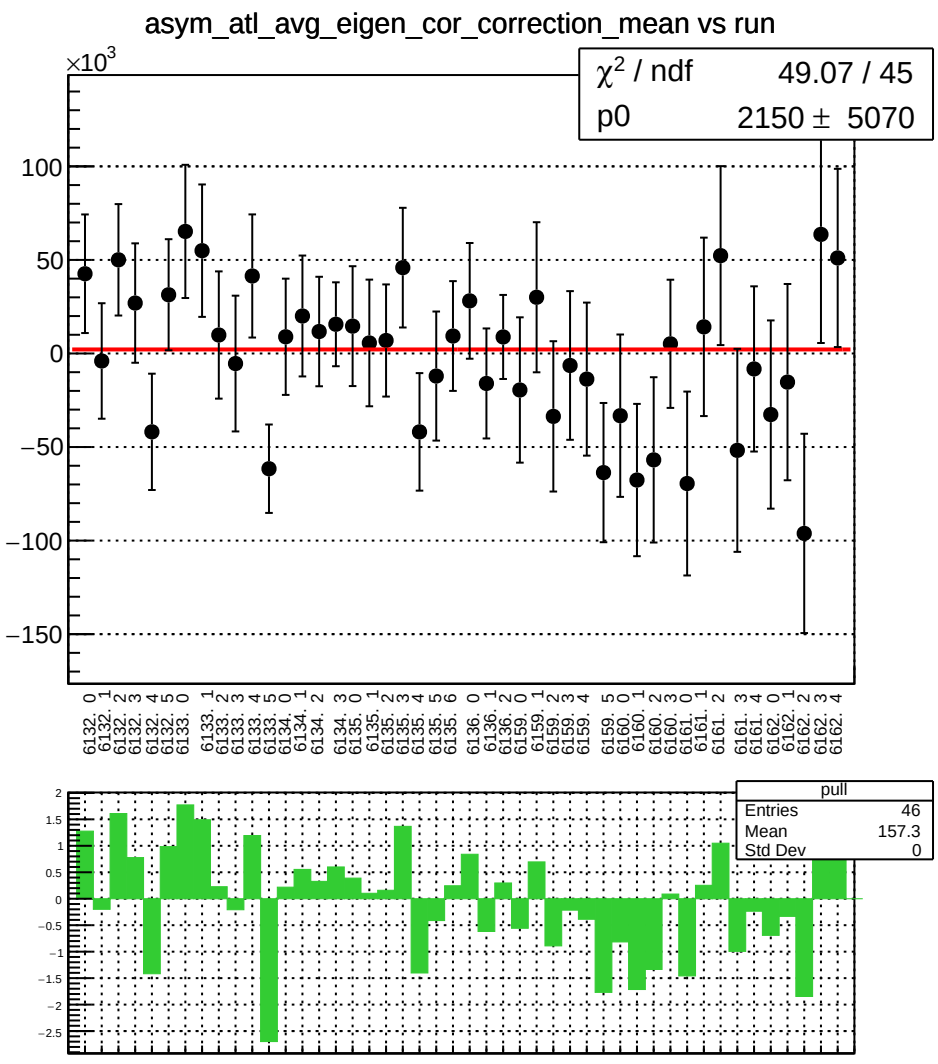
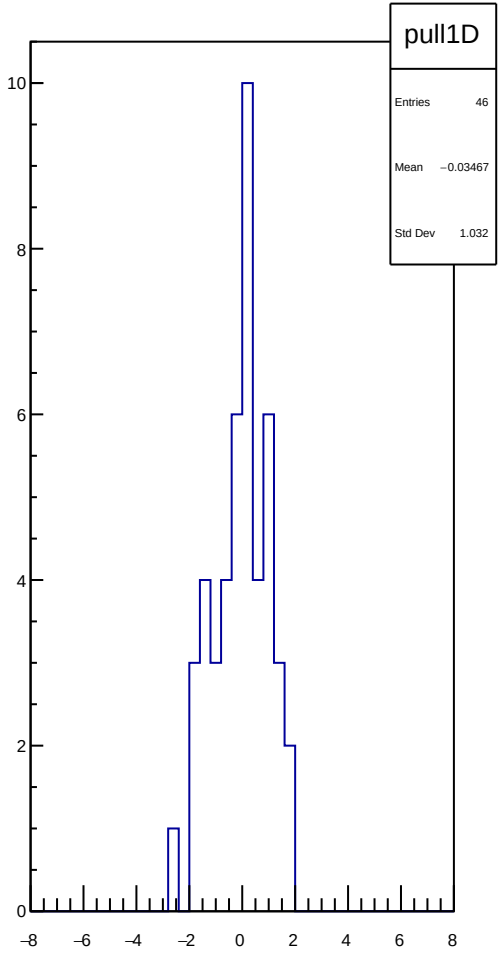
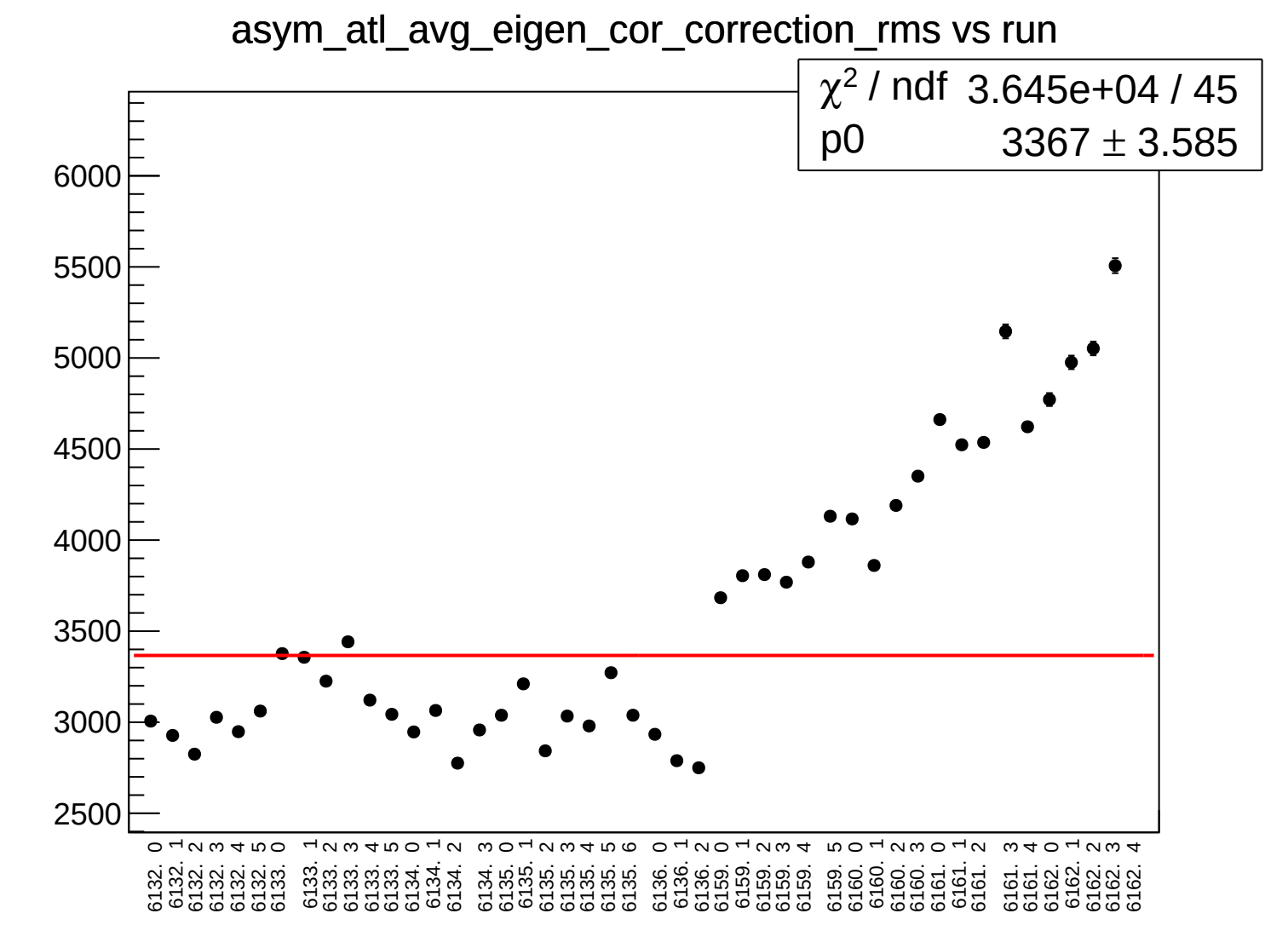

asym_atl_avg_eigen_cor_correction_mean vs run
χ² / ndf 49.07 / 45
p0 2150 ± 5070
×10³
pull
Entries 46
Mean 157.3
Std Dev 0


pull1D
Entries 46
Mean −0.03467
Std Dev 1.032


asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.645e+04 / 45
p0 3367 ± 3.585
6000
5500
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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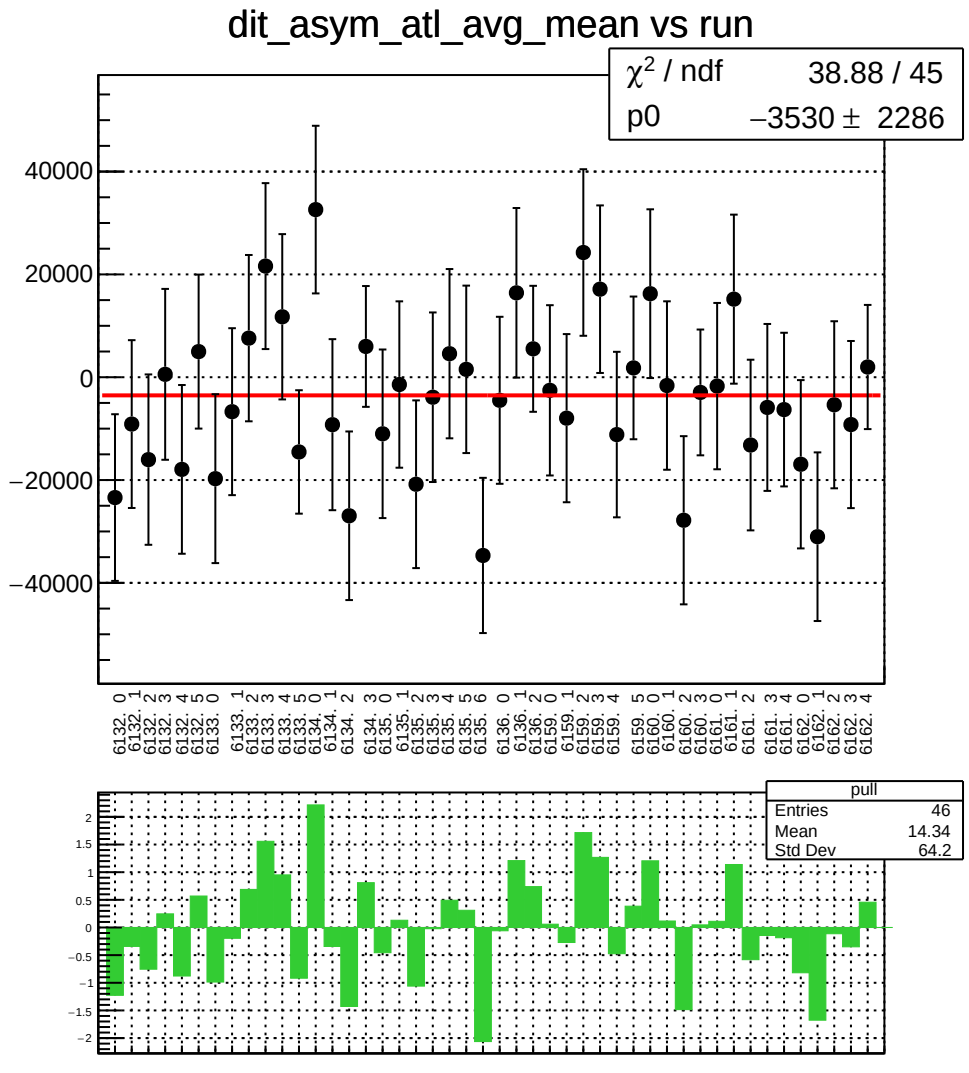
dit_asym_atl_avg_mean vs run
χ² / ndf 38.88 / 45
p0 −3530 ± 2286
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
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6133. 3
6133. 4
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6134. 2
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6160. 1
6160. 2
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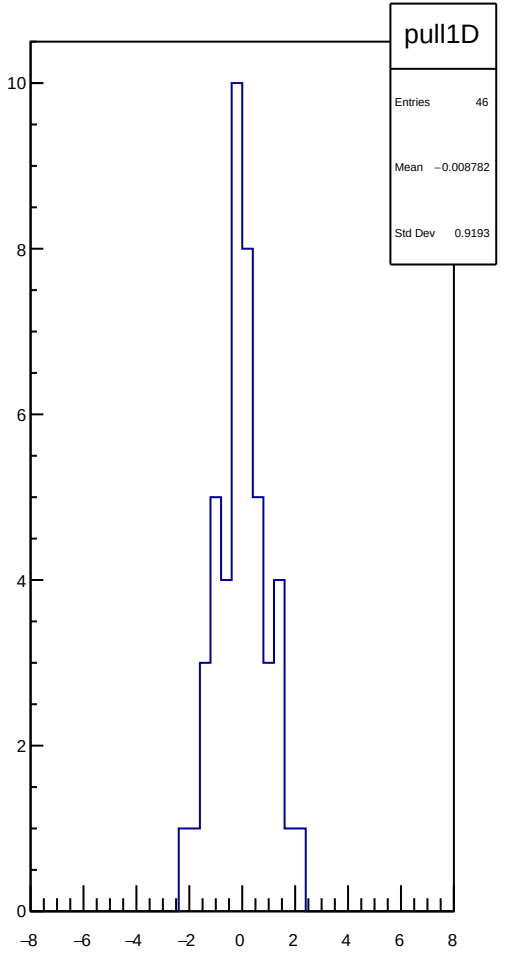
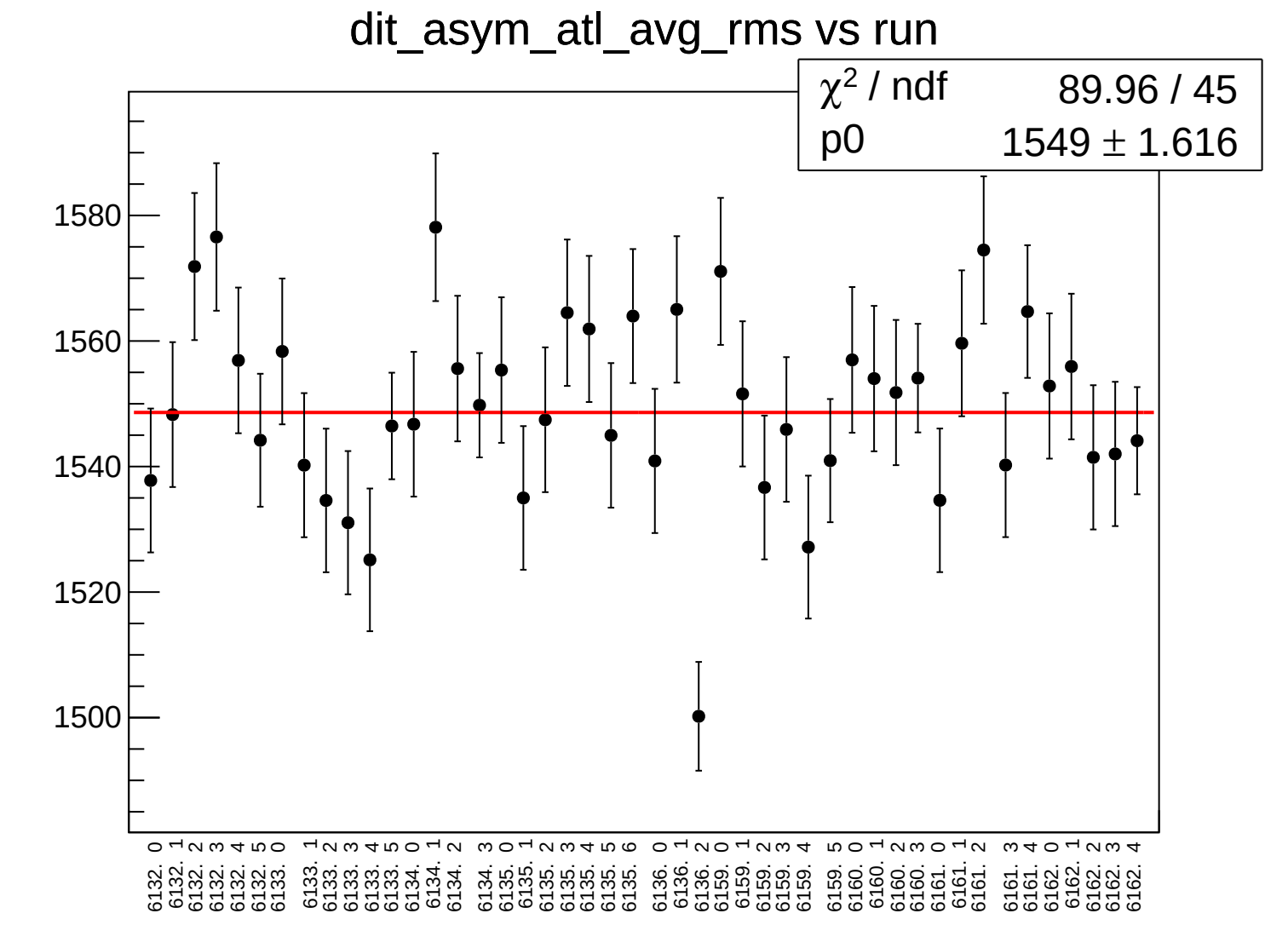
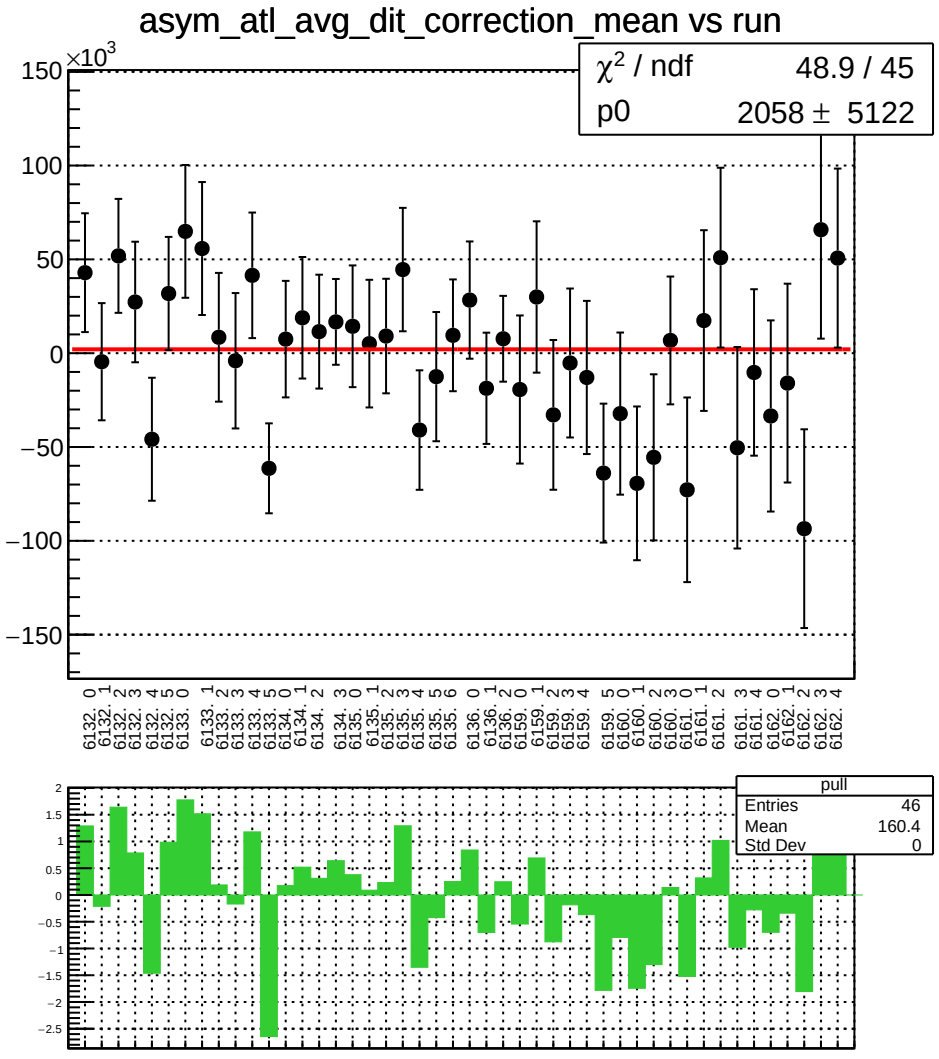
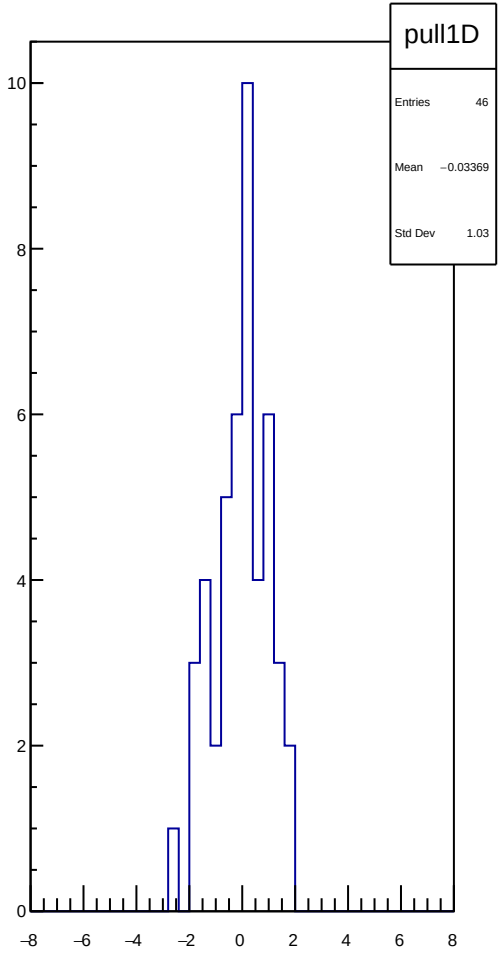
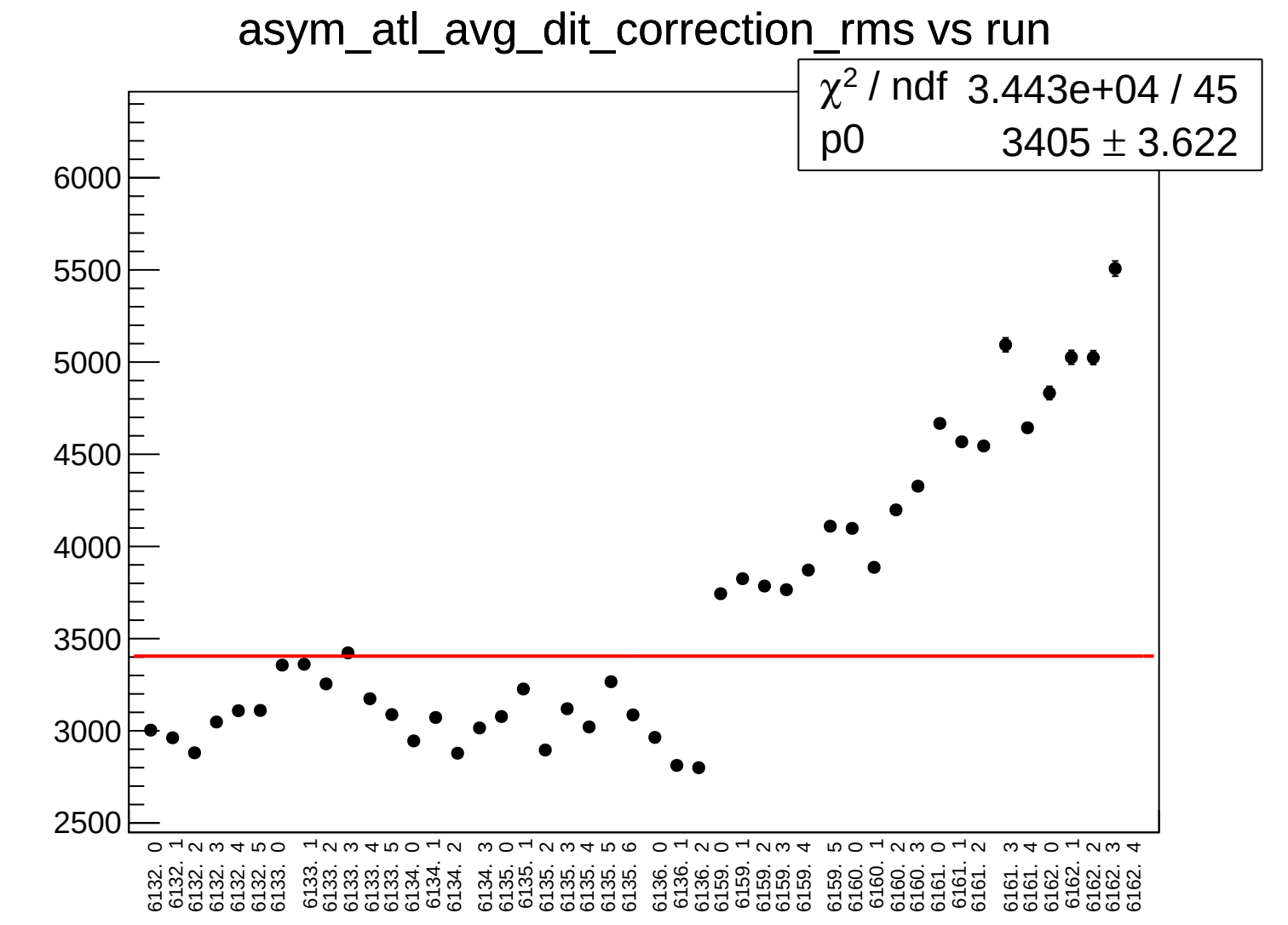
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 14.34
Std Dev 64.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

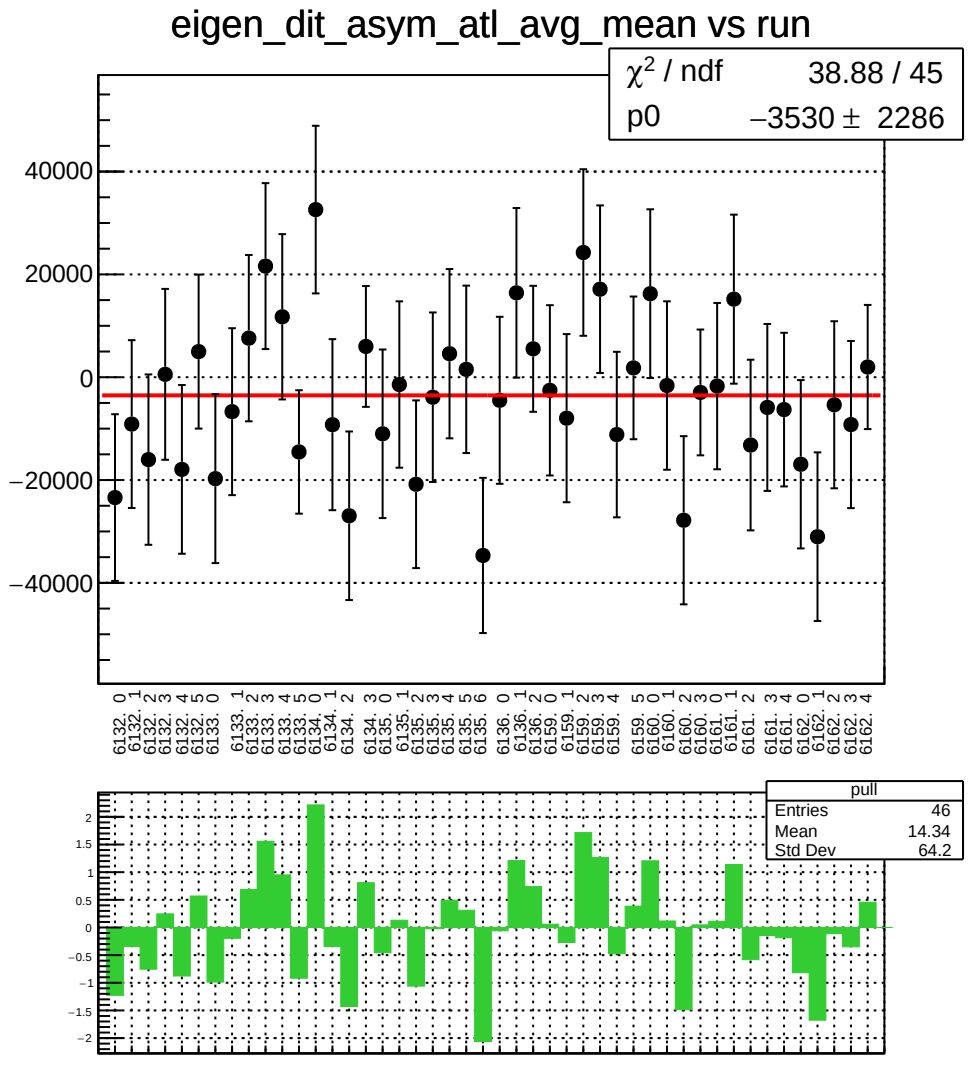

pull1D
Entries 46
Mean −0.008782
Std Dev 0.9193
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

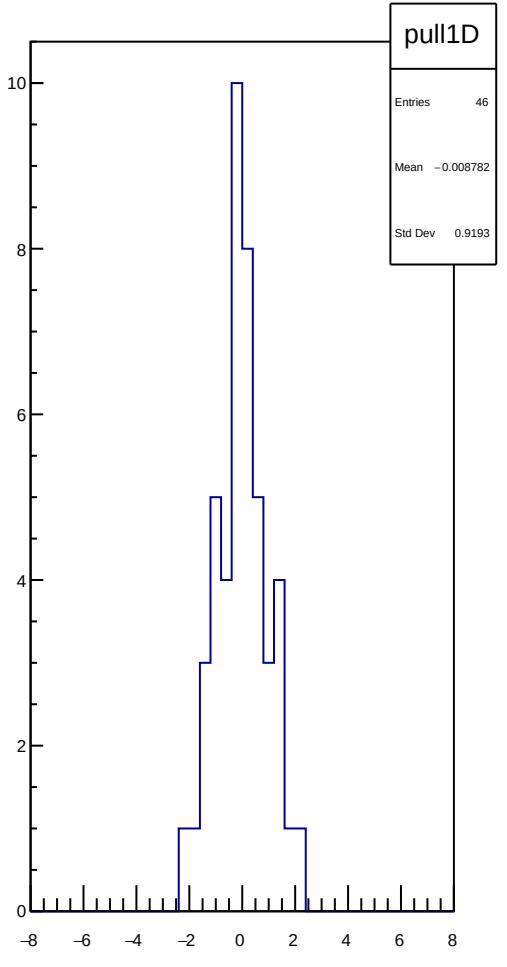

dit_asym_atl_avg_rms vs run
χ² / ndf 89.96 / 45
p0 1549 ± 1.616
1580
1560
1540
1520
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

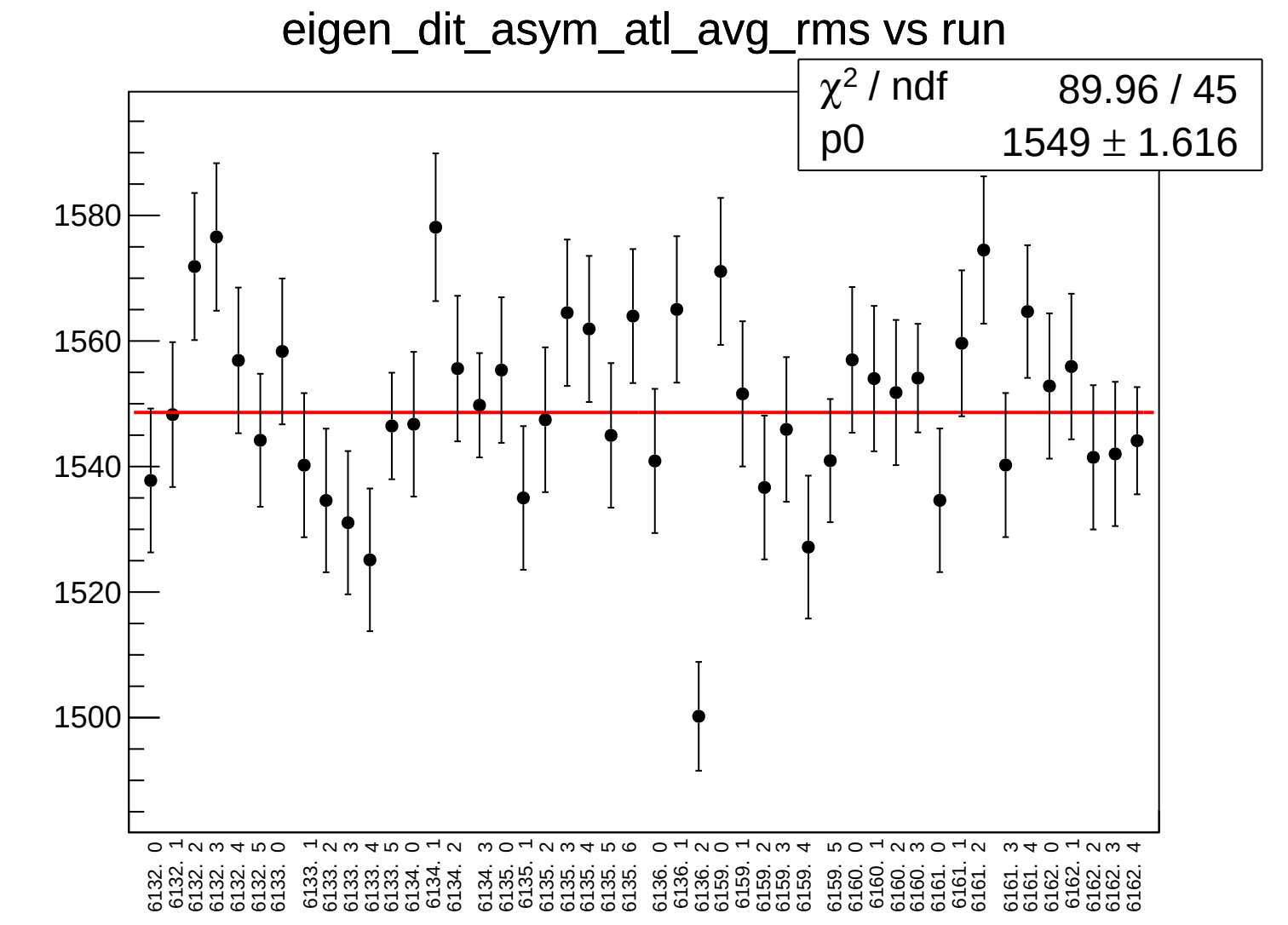

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 48.9 / 45
p0 2058 ± 5122
pull
Entries 46
Mean 160.4
Std Dev 0

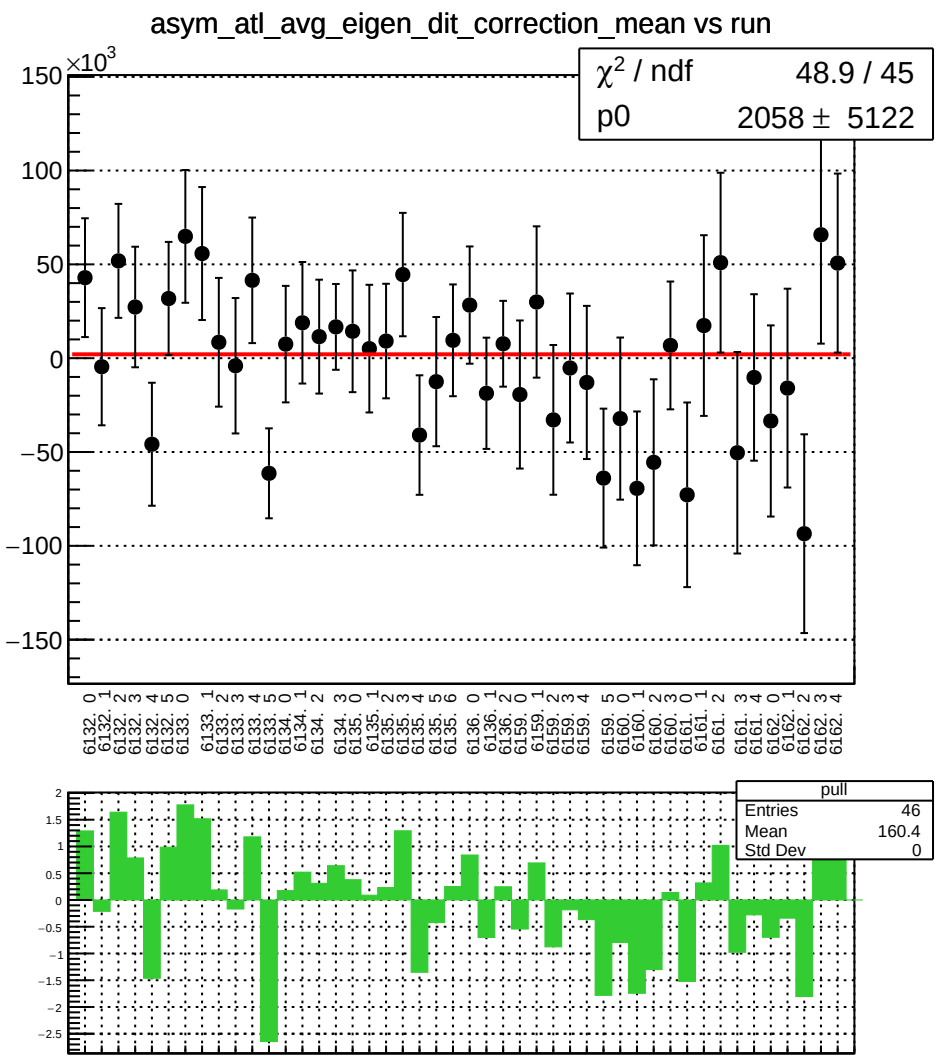

pull1D
Entries 46
Mean −0.03369
Std Dev 1.03

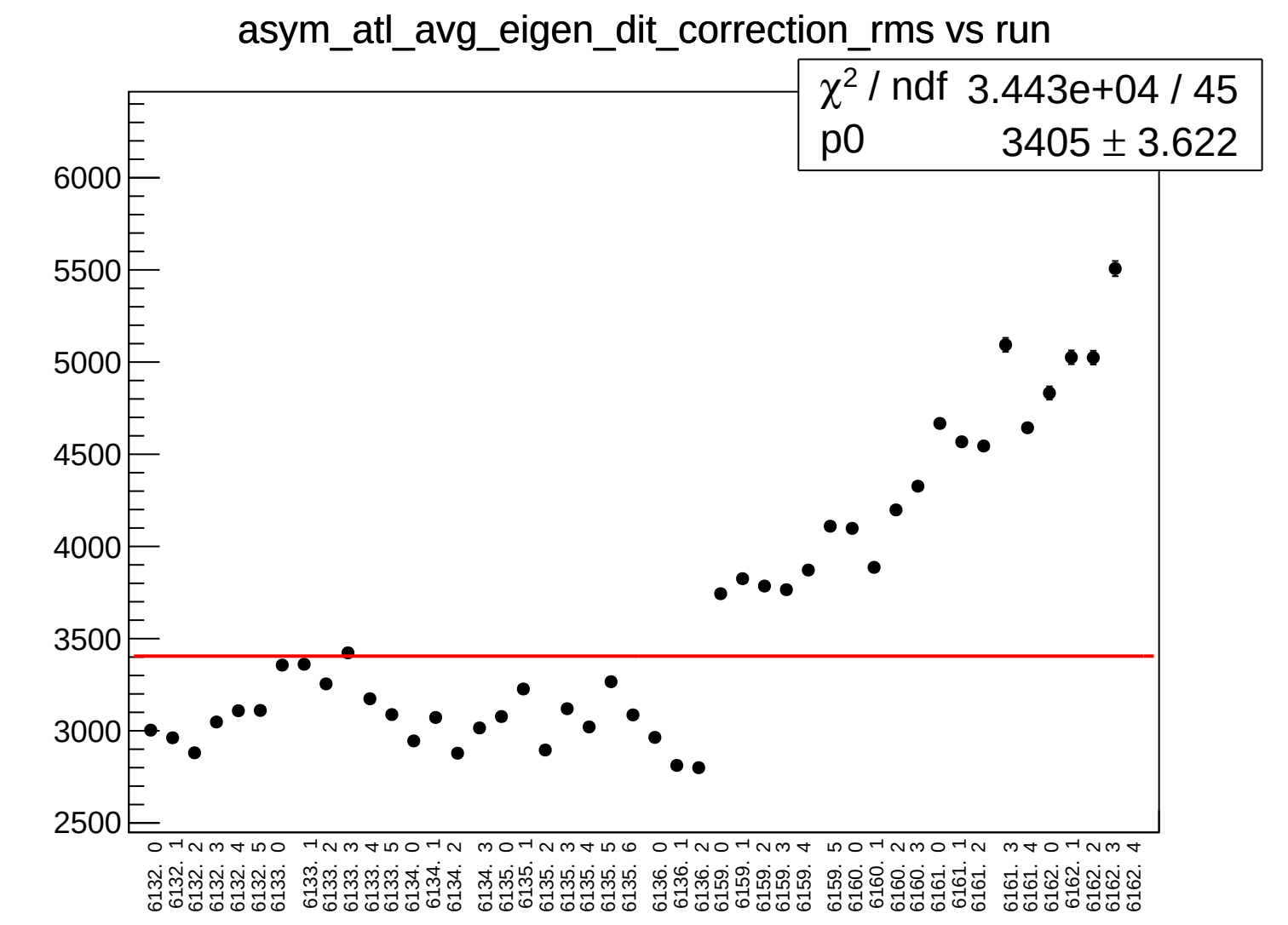

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 3.443e+04 / 45
p0 3405 ± 3.622
6000
5500
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

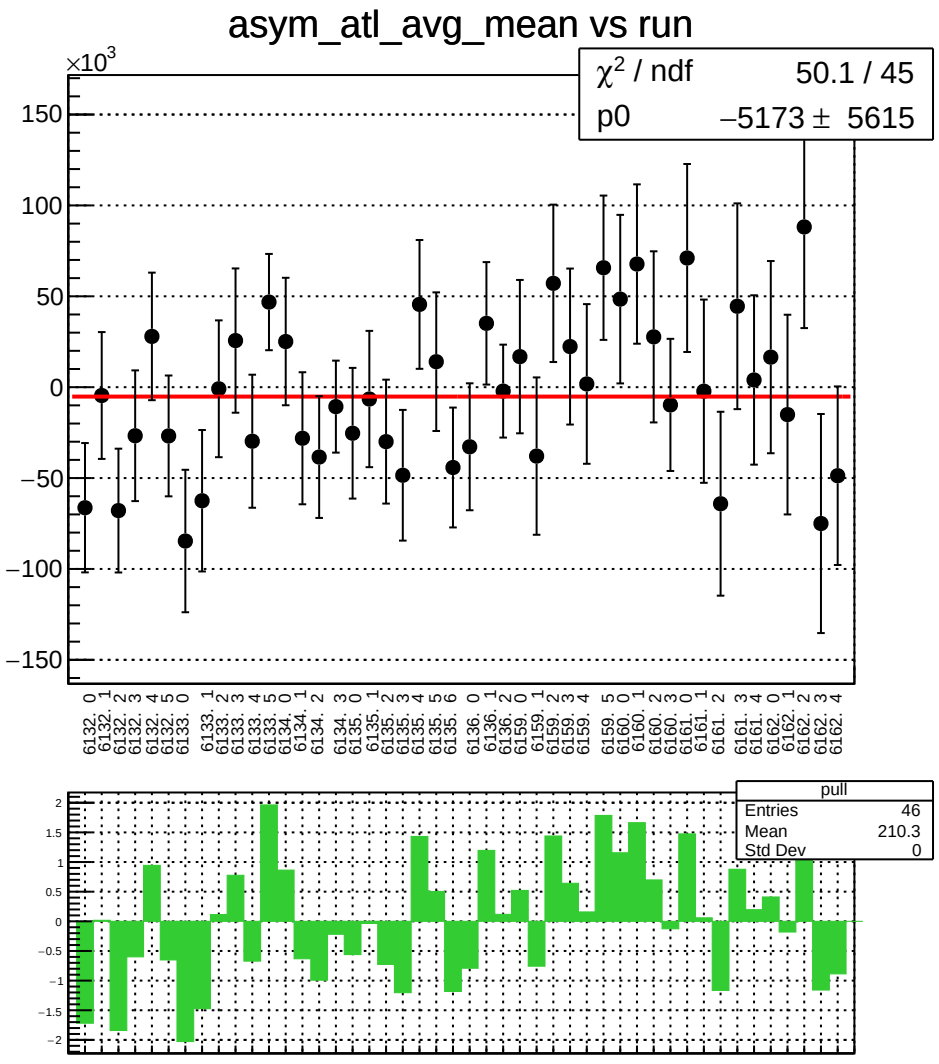

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 38.88 / 45
p0 −3530 ± 2286
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 14.34
Std Dev 64.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

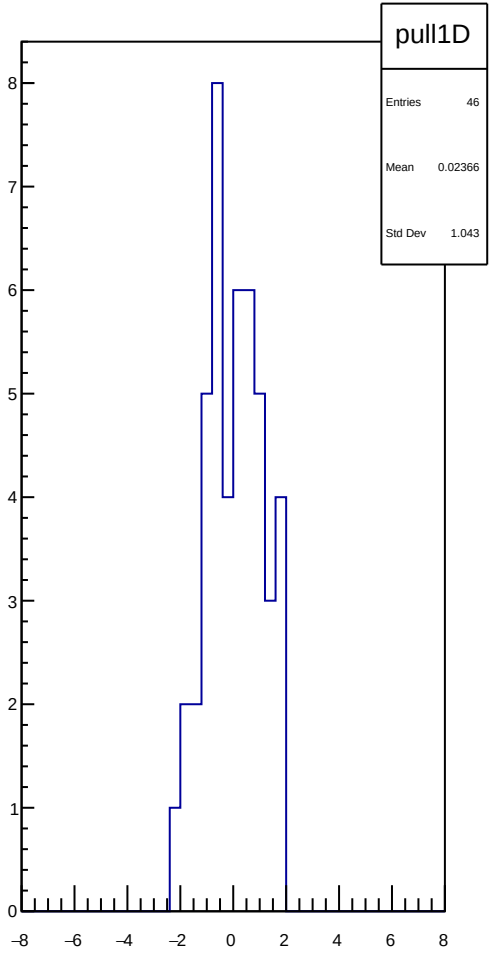

pull1D
Entries 46
Mean −0.008782
Std Dev 0.9193
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

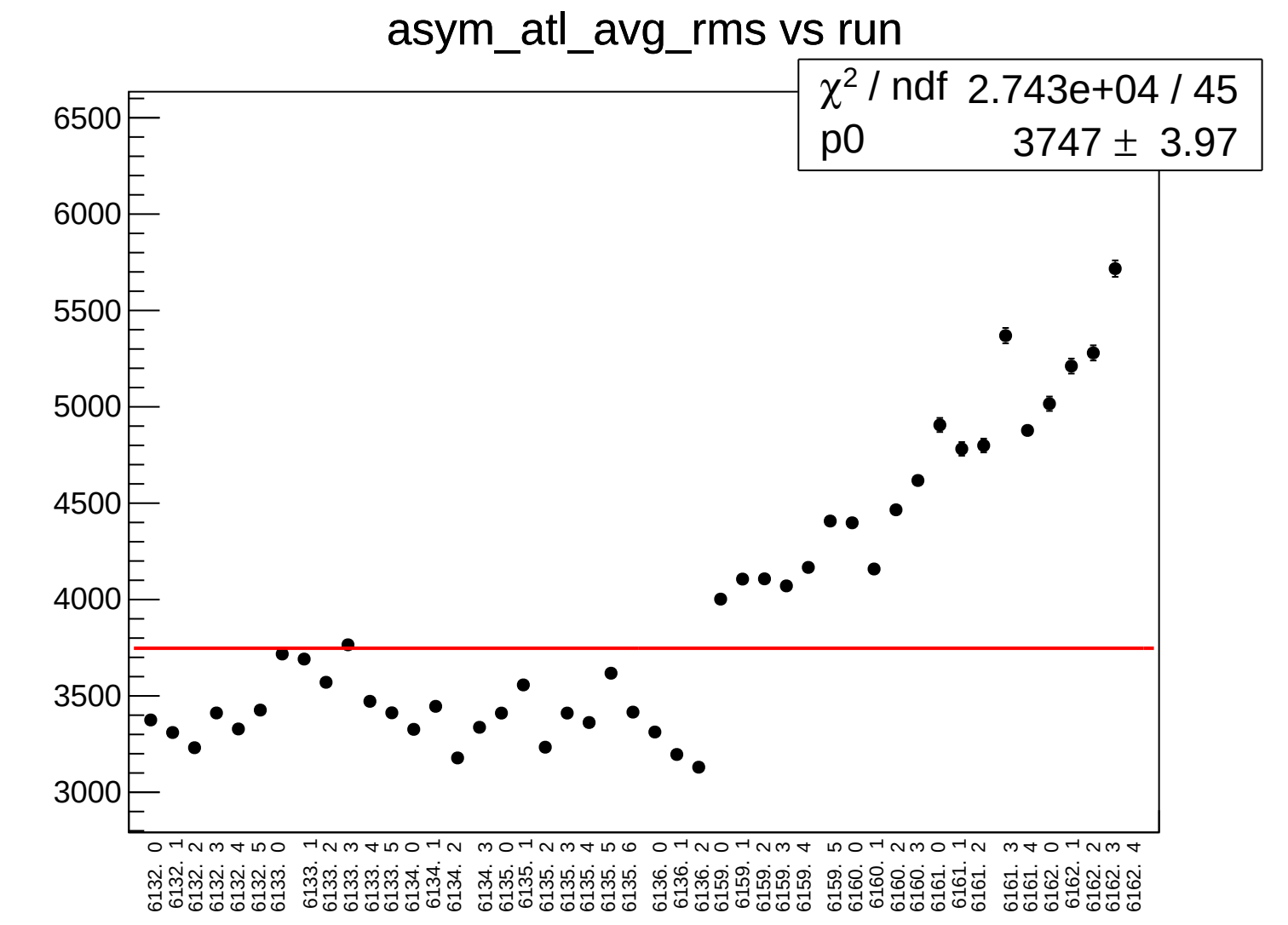

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 89.96 / 45
p0 1549 ± 1.616
1580
1560
1540
1520
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

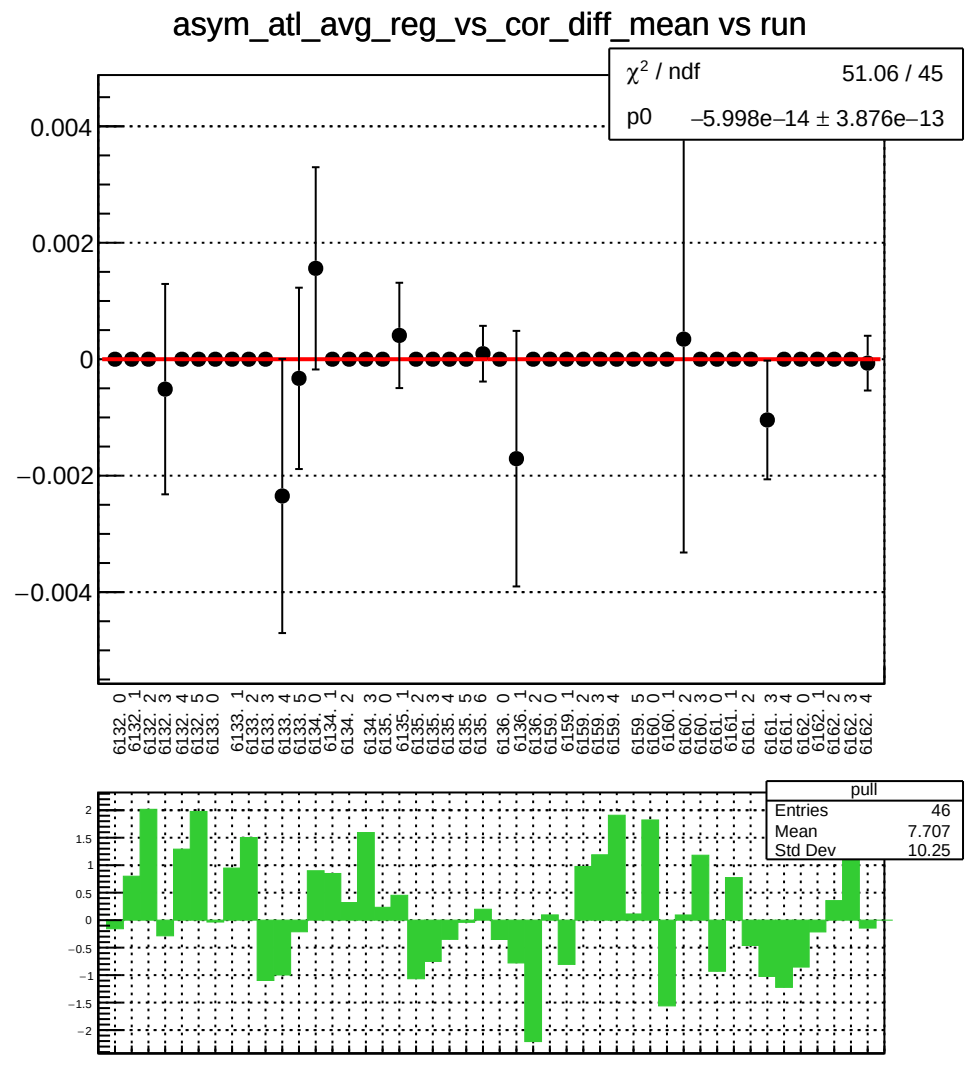

asym_atl_avg_eigen_dit_correction_mean vs run
χ² / ndf 48.9 / 45
p0 2058 ± 5122
×10³
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 160.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.03369
Std Dev 1.03
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

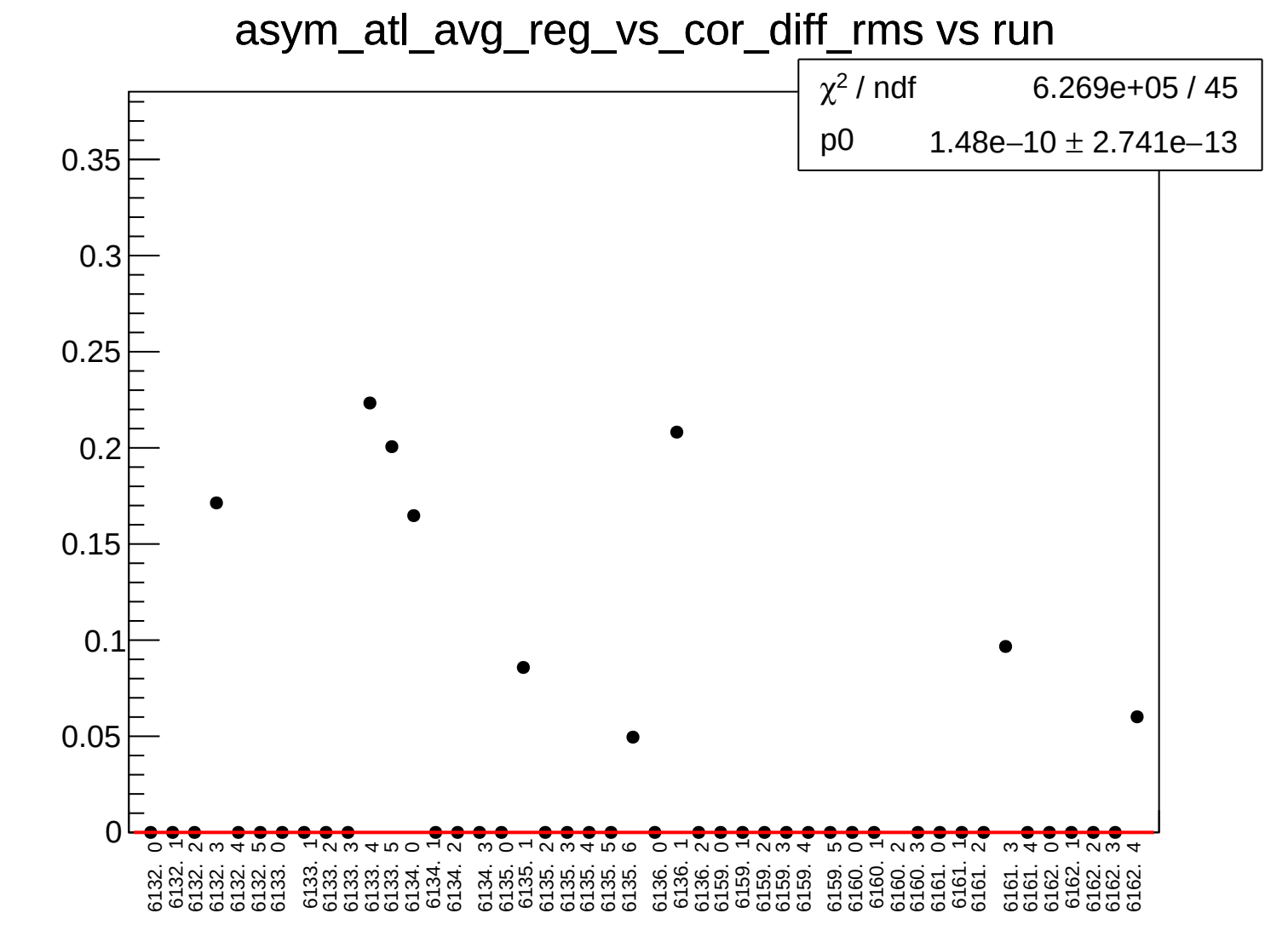

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.443e+04 / 45
p0 3405 ± 3.622
6000
5500
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

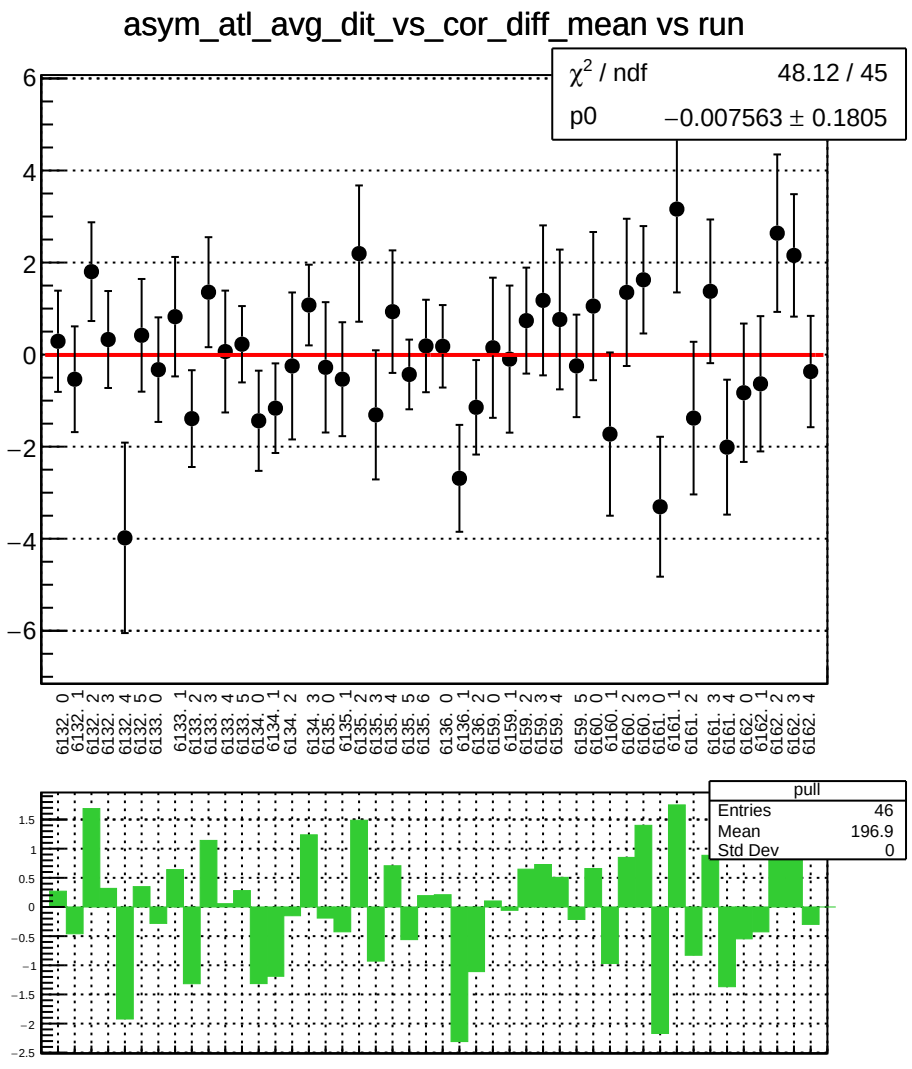

asym_atl_avg_mean vs run
×10^3
χ² / ndf 50.1 / 45
p0 −5173 ± 5615
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 210.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

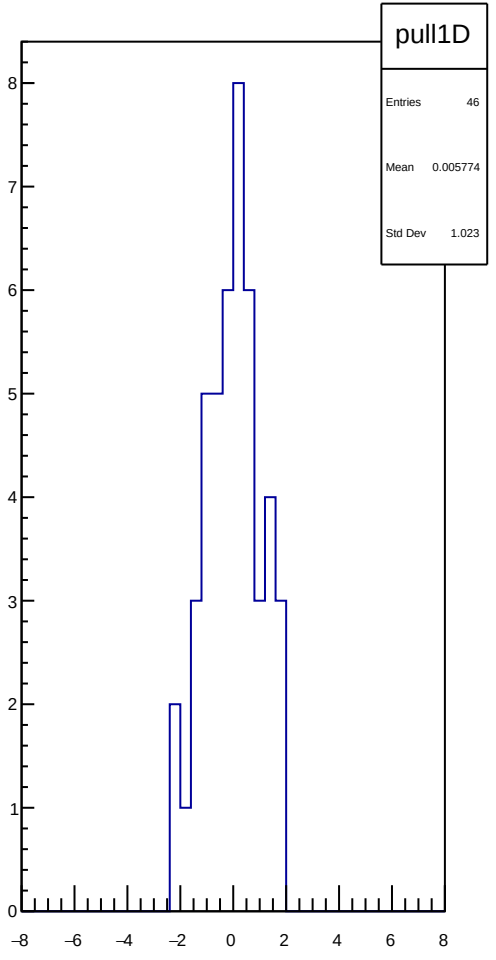

pull1D
Entries 46
Mean 0.02366
Std Dev 1.043
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

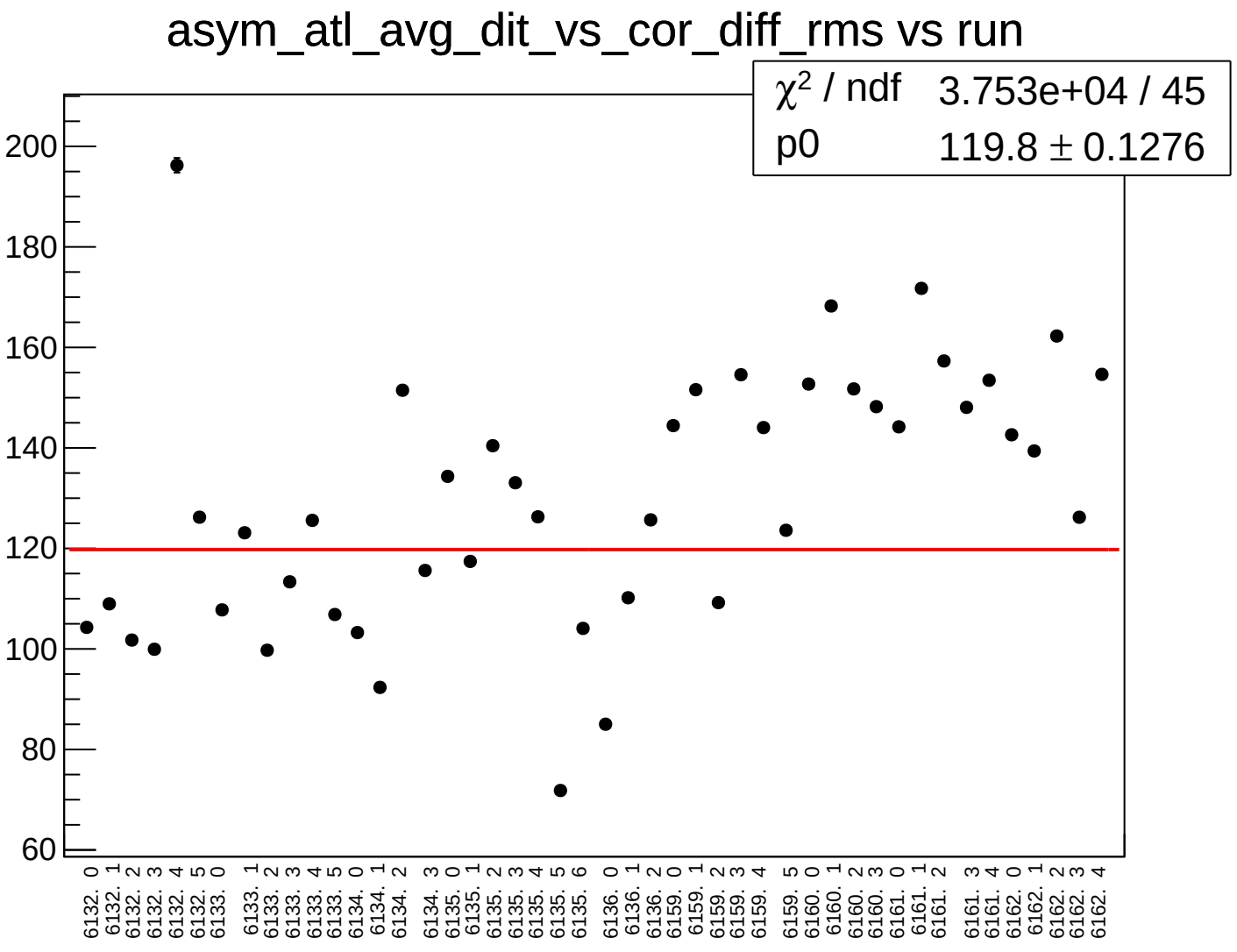

asym_atl_avg_rms vs run
χ² / ndf 2.743e+04 / 45
p0 3747 ± 3.97
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

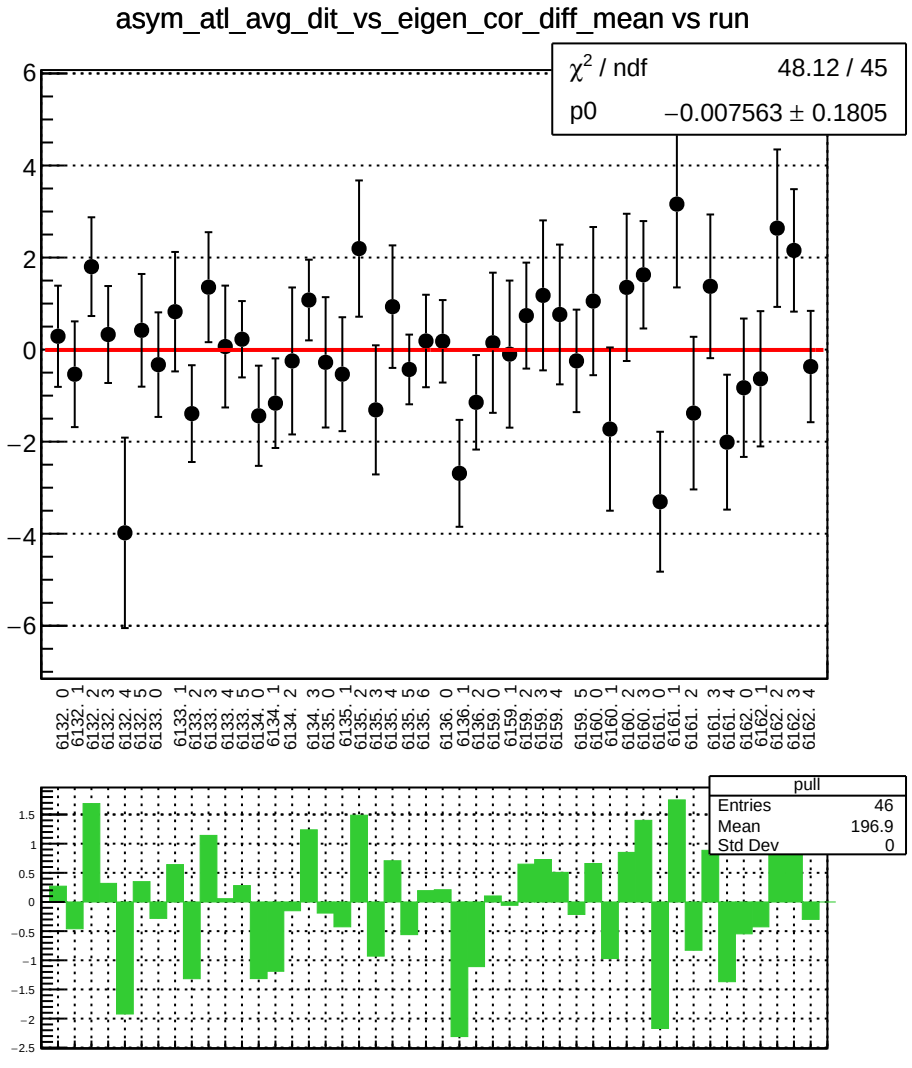

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 51.06 / 45
p0 −5.998e−14 ± 3.876e−13
0.004
0.002
0
−0.002
−0.004
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 7.707
Std Dev 10.25
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.1772
Std Dev 1.039
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

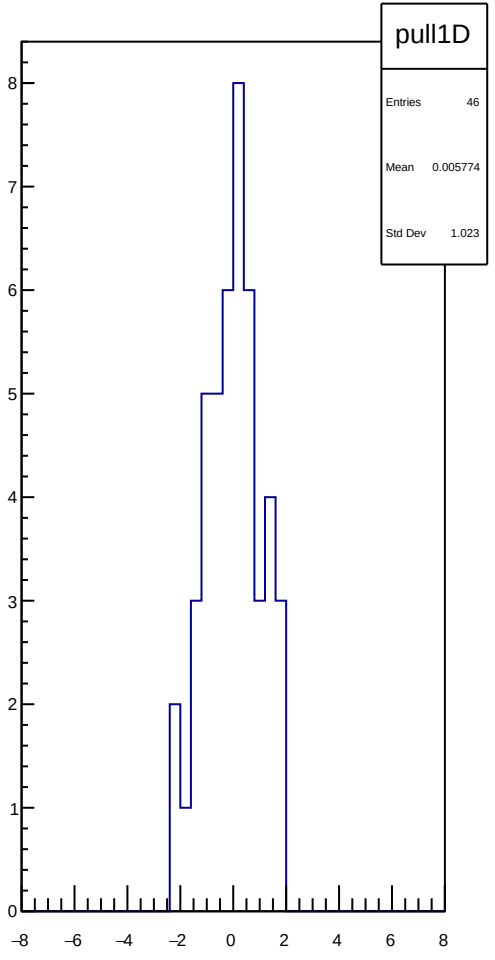

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.269e+05 / 45
p0 1.48e−10 ± 2.741e−13
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

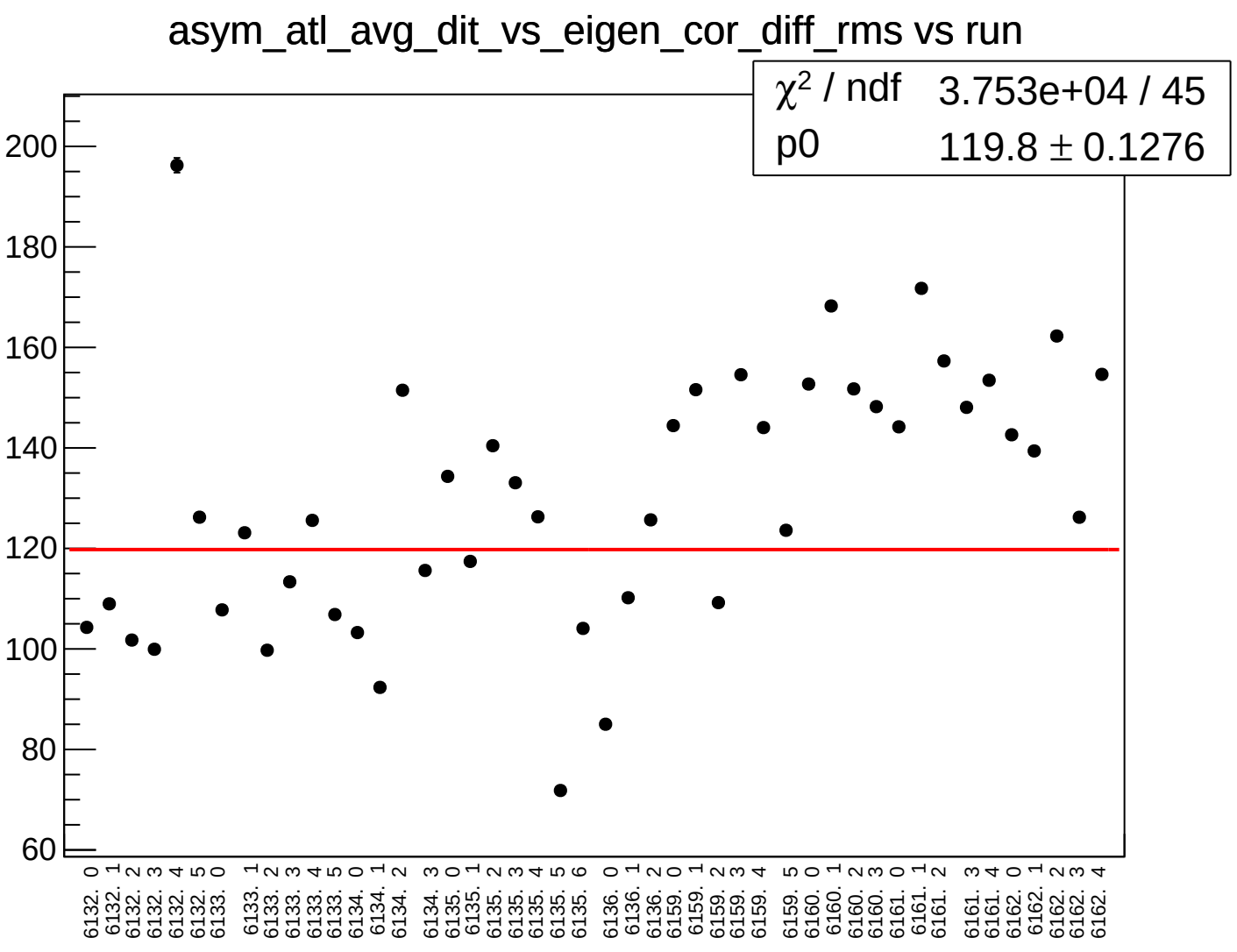

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 48.12 / 45
p0 −0.007563 ± 0.1805
pull
Entries 46
Mean 196.9
Std Dev 0

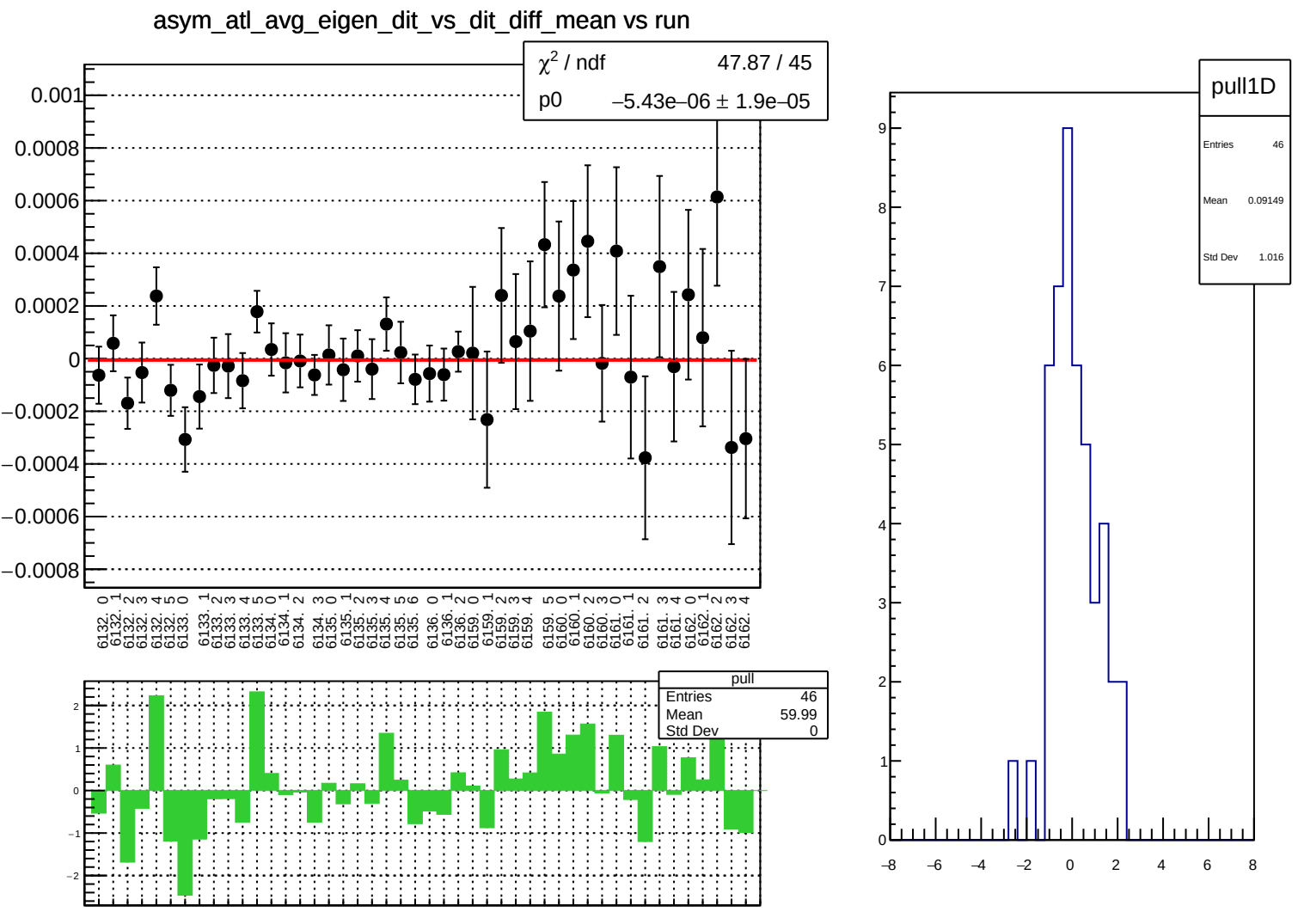

pull1D
Entries 46
Mean 0.005774
Std Dev 1.023


asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.753e+04 / 45
p0 119.8 ± 0.1276
200
180
160
140
120
100
80
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.12 / 45
p0 −0.007563 ± 0.1805
pull
Entries 46
Mean 196.9
Std Dev 0


pull1D
Entries 46
Mean 0.005774
Std Dev 1.023


asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.753e+04 / 45
p0 119.8 ± 0.1276
200
180
160
140
120
100
80
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 47.87 / 45
p0 −5.43e−06 ± 1.9e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 59.99
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.09149
Std Dev 1.016
9
8
7
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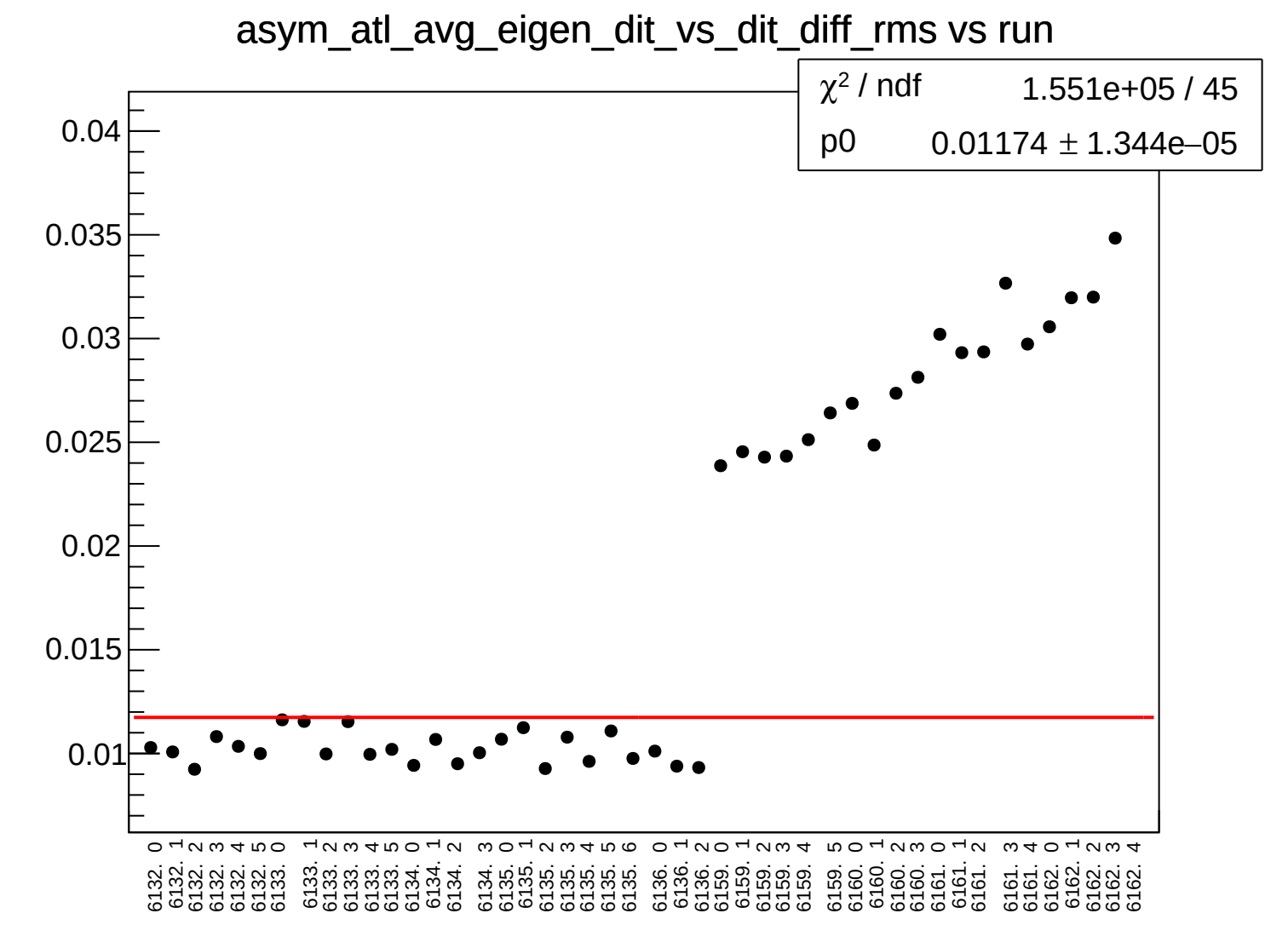
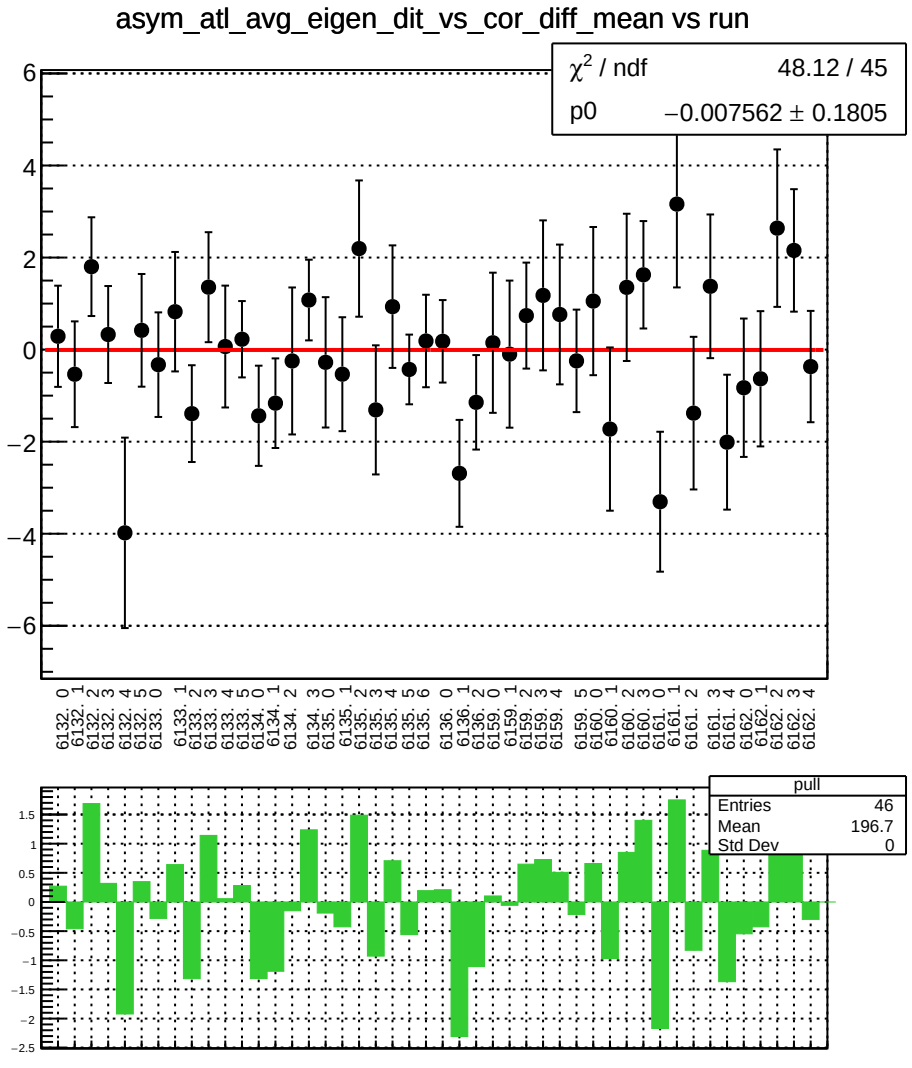
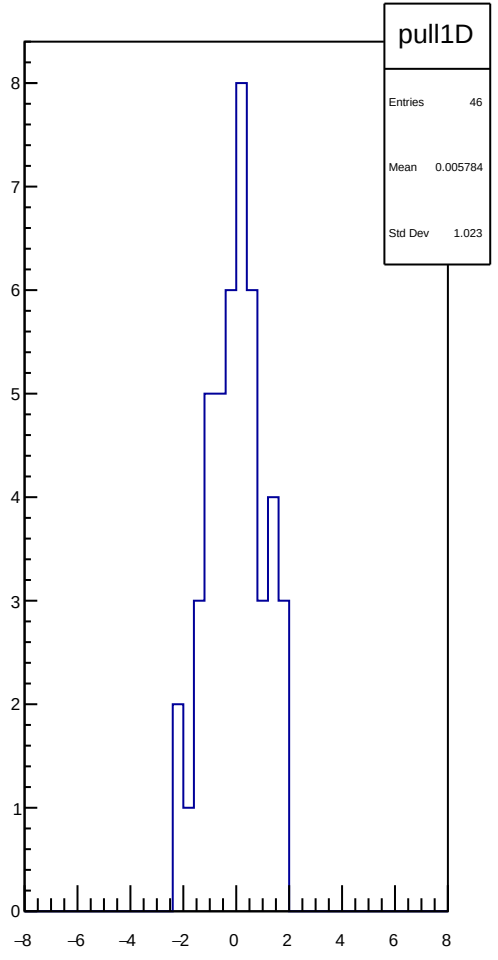
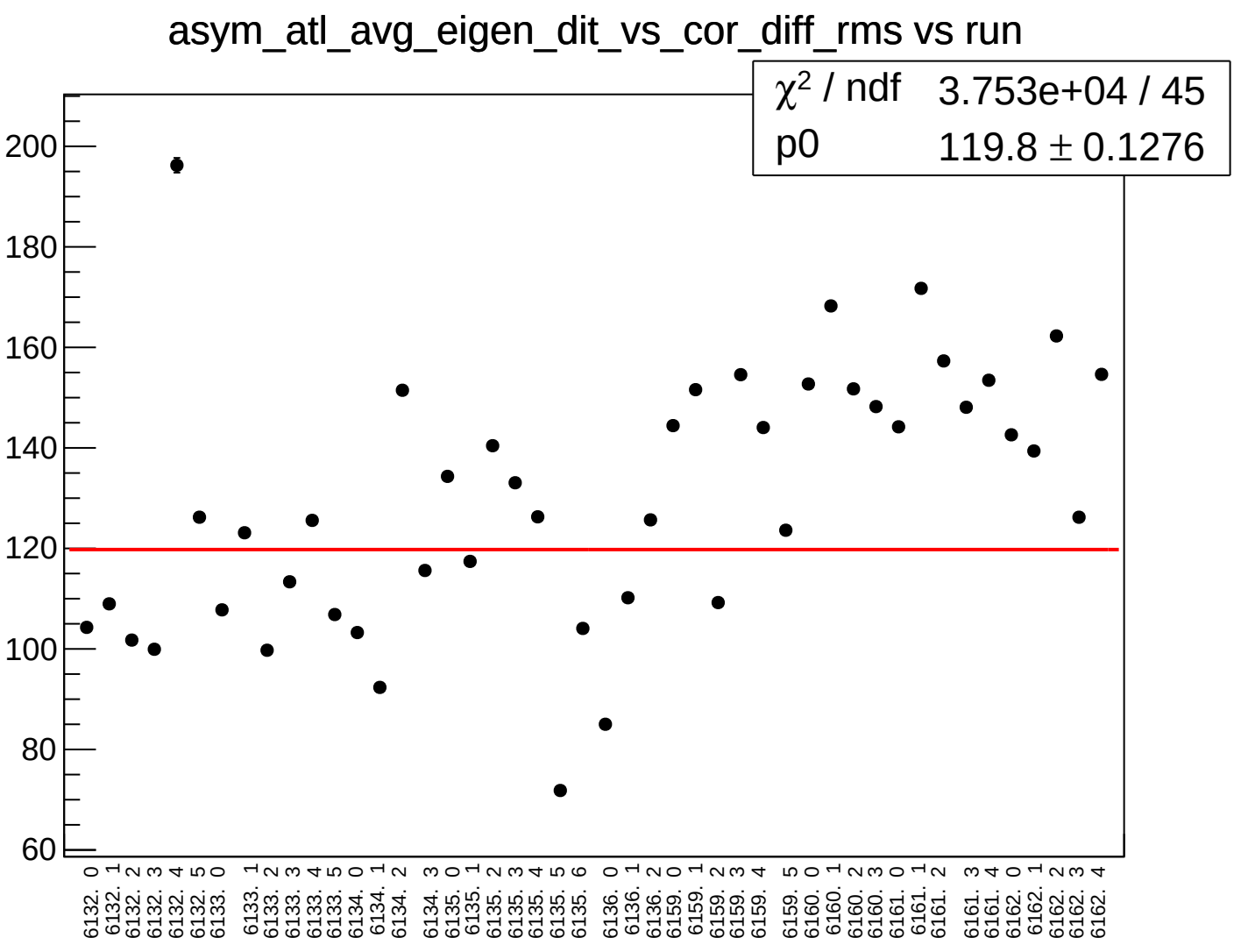
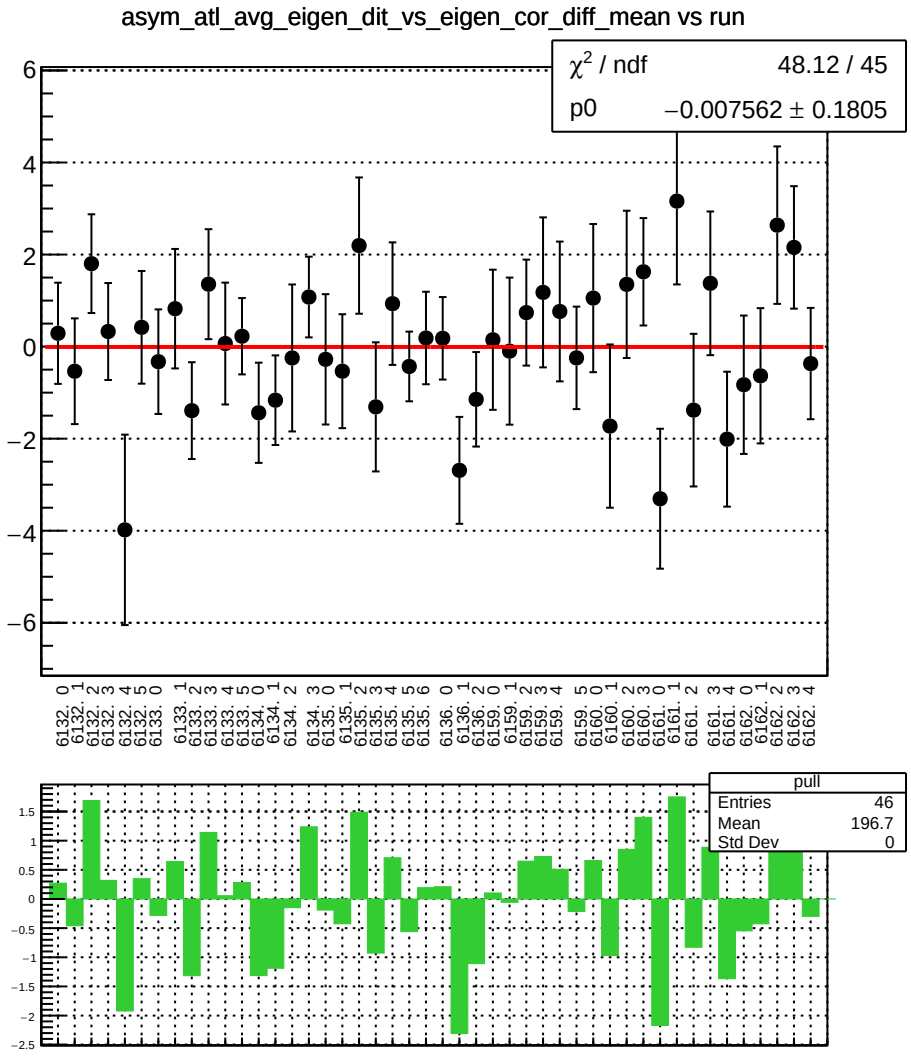
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

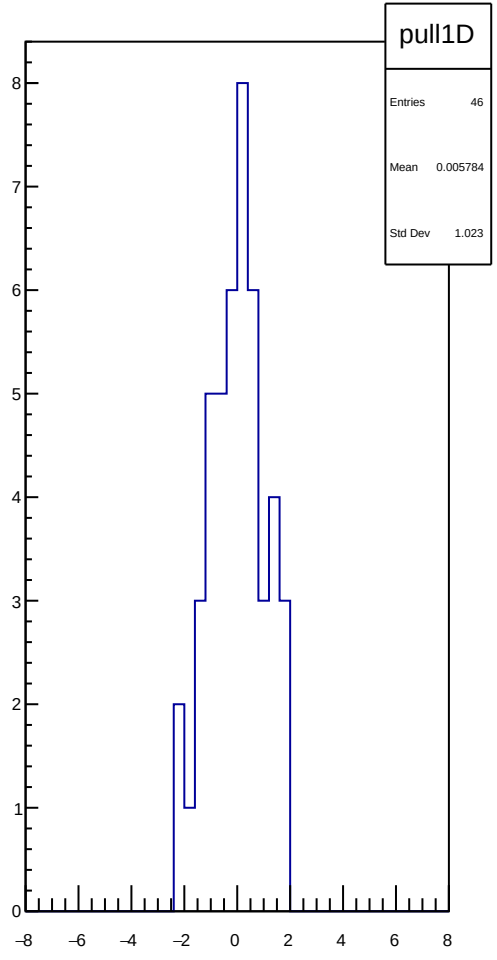

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.551e+05 / 45
p0 0.01174 ± 1.344e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

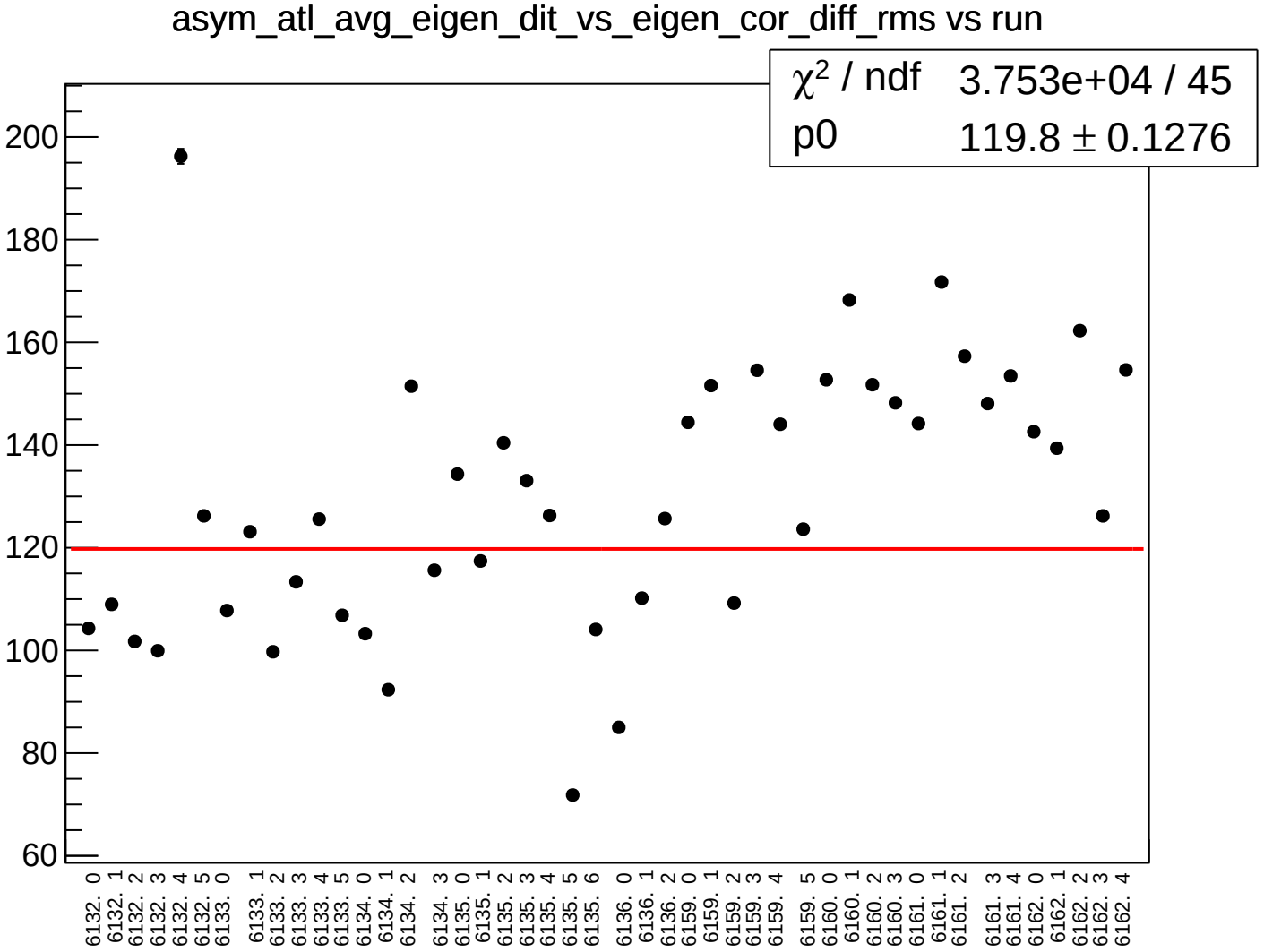

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 48.12 / 45
p0 −0.007562 ± 0.1805
pull
Entries 46
Mean 196.7
Std Dev 0

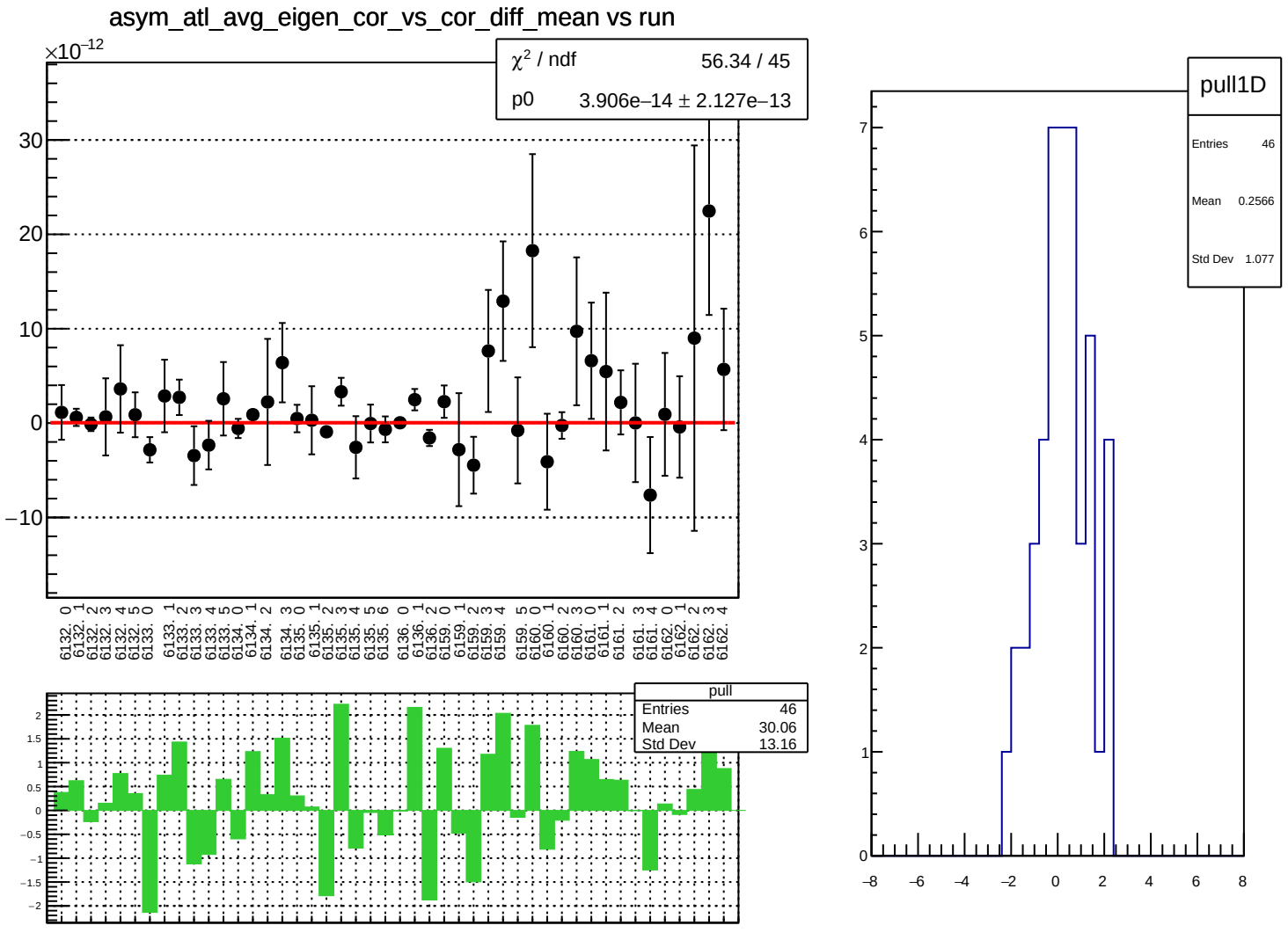

pull1D
Entries 46
Mean 0.005784
Std Dev 1.023

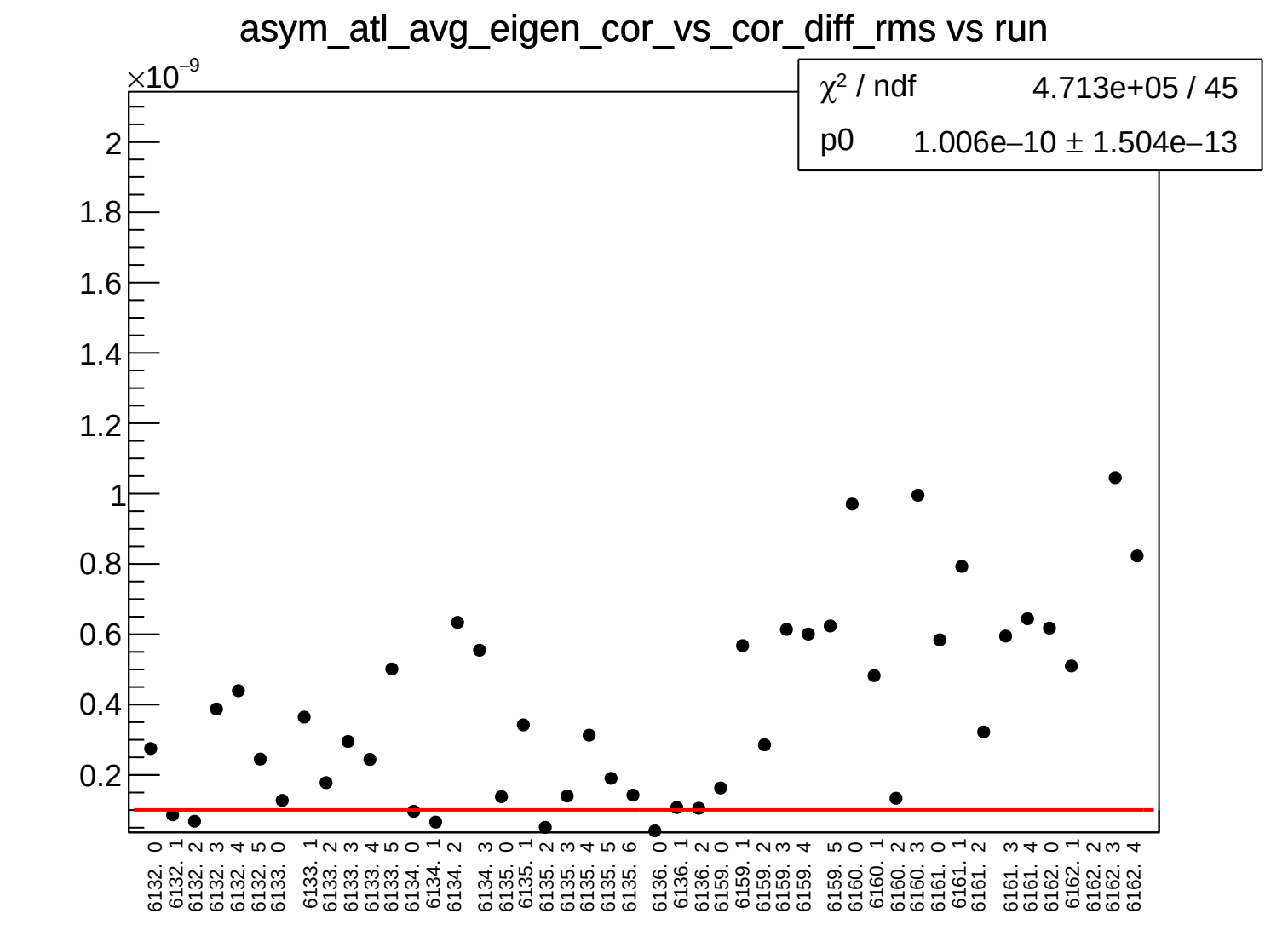

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.753e+04 / 45
p0 119.8 ± 0.1276
200
180
160
140
120
100
80
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

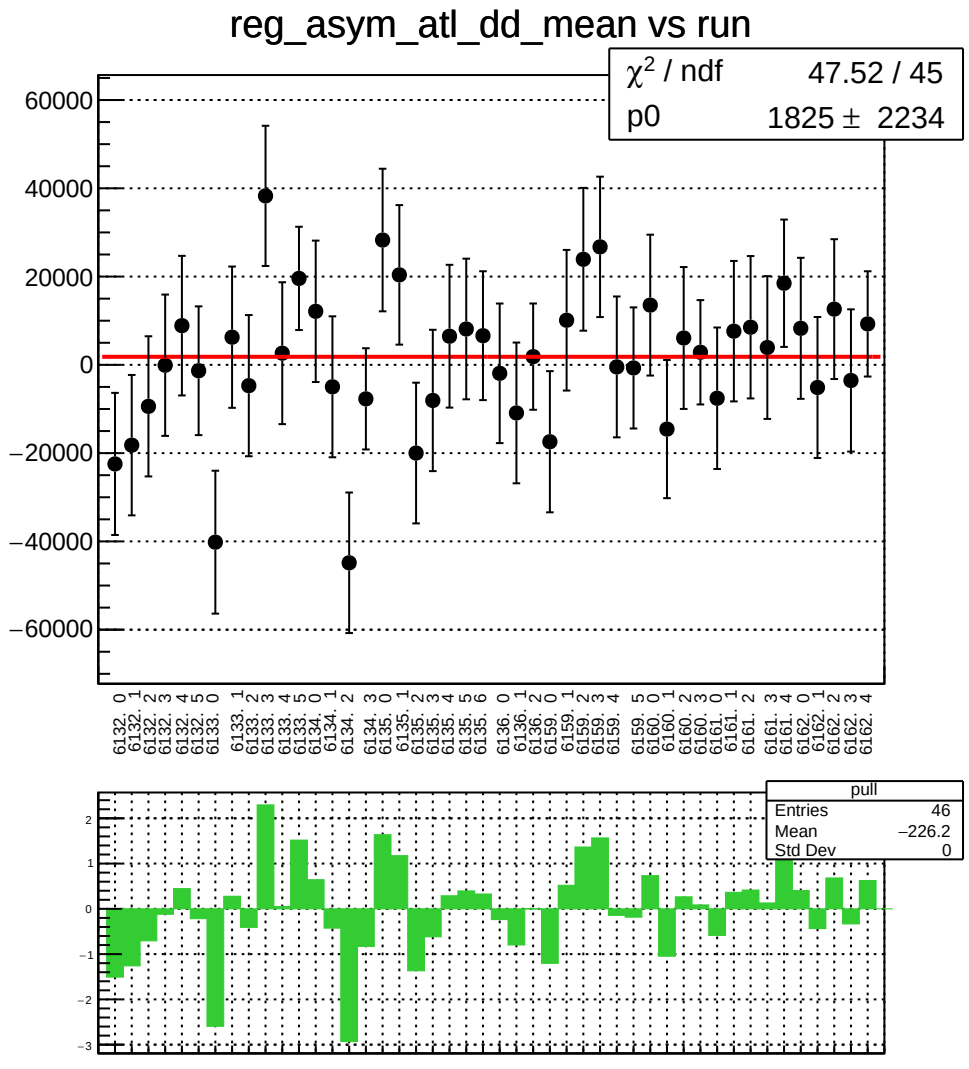

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.12 / 45
p0 −0.007562 ± 0.1805
pull
Entries 46
Mean 196.7
Std Dev 0

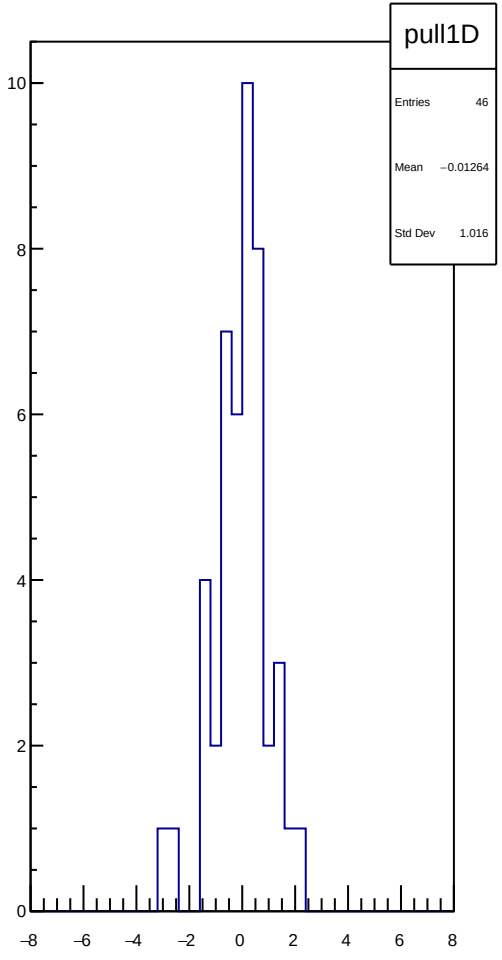

pull1D
Entries 46
Mean 0.005784
Std Dev 1.023

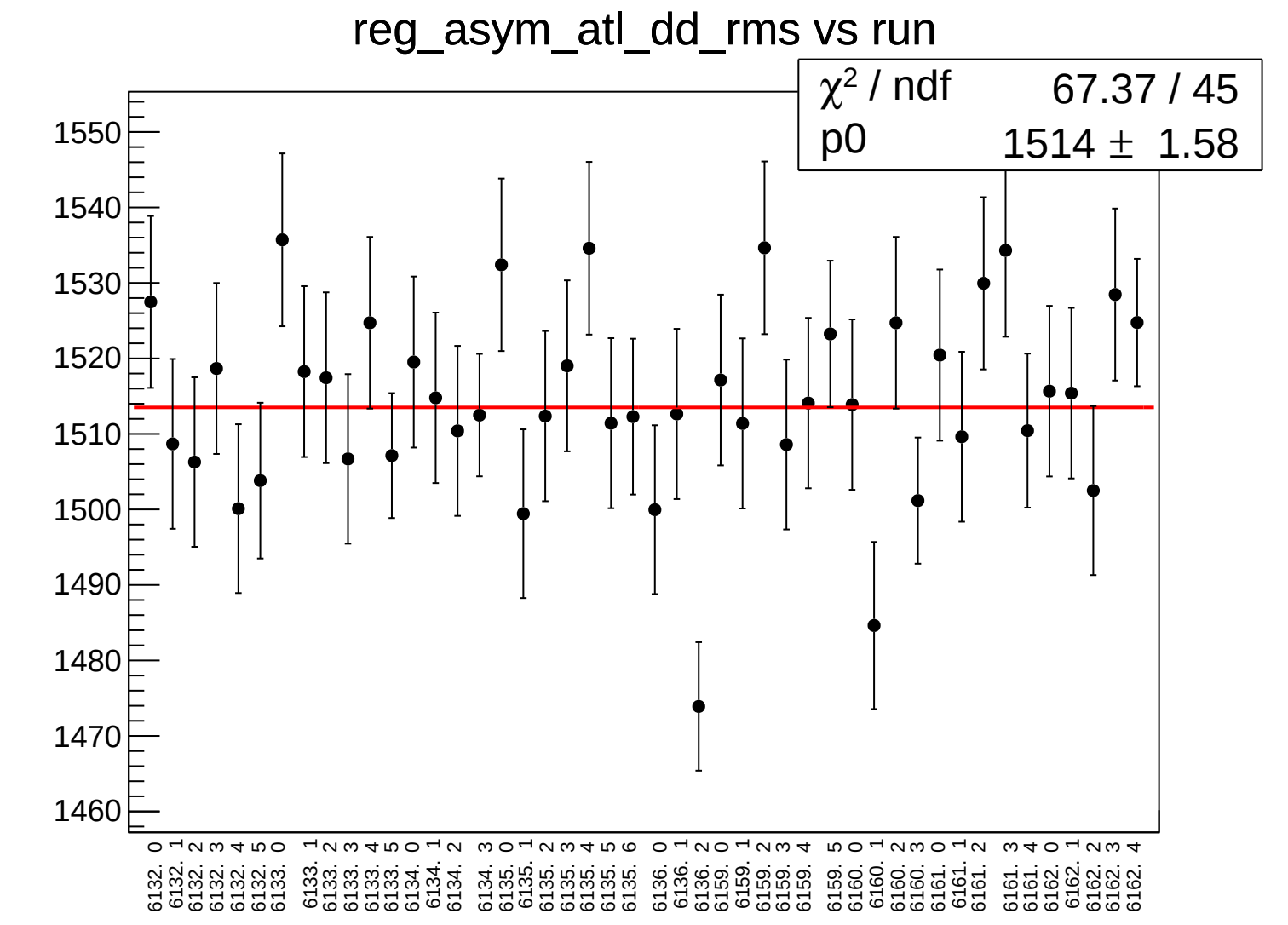

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.753e+04 / 45
p0 119.8 ± 0.1276
200
180
160
140
120
100
80
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

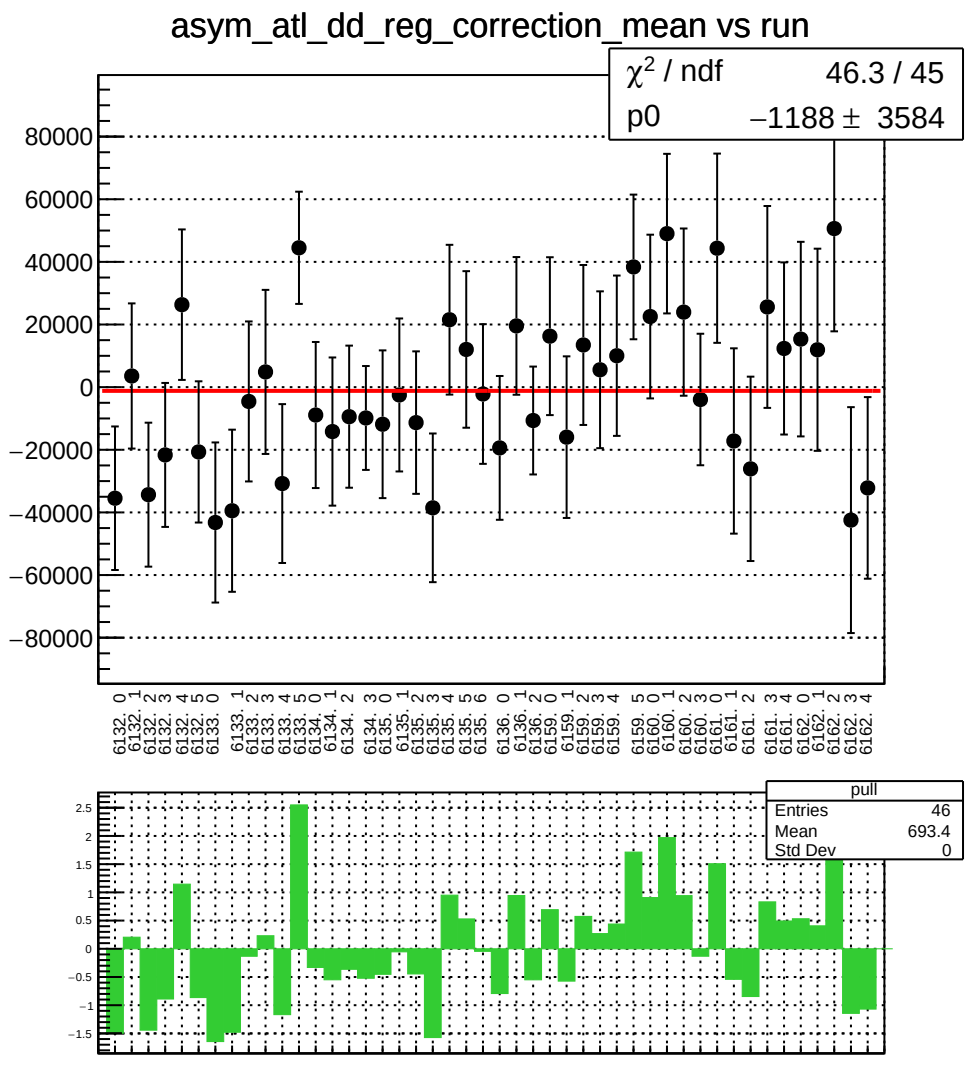

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 56.34 / 45
p0 3.906e−14 ± 2.127e−13
30
20
10
0
−10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 30.06
Std Dev 13.16
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.2566
Std Dev 1.077
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

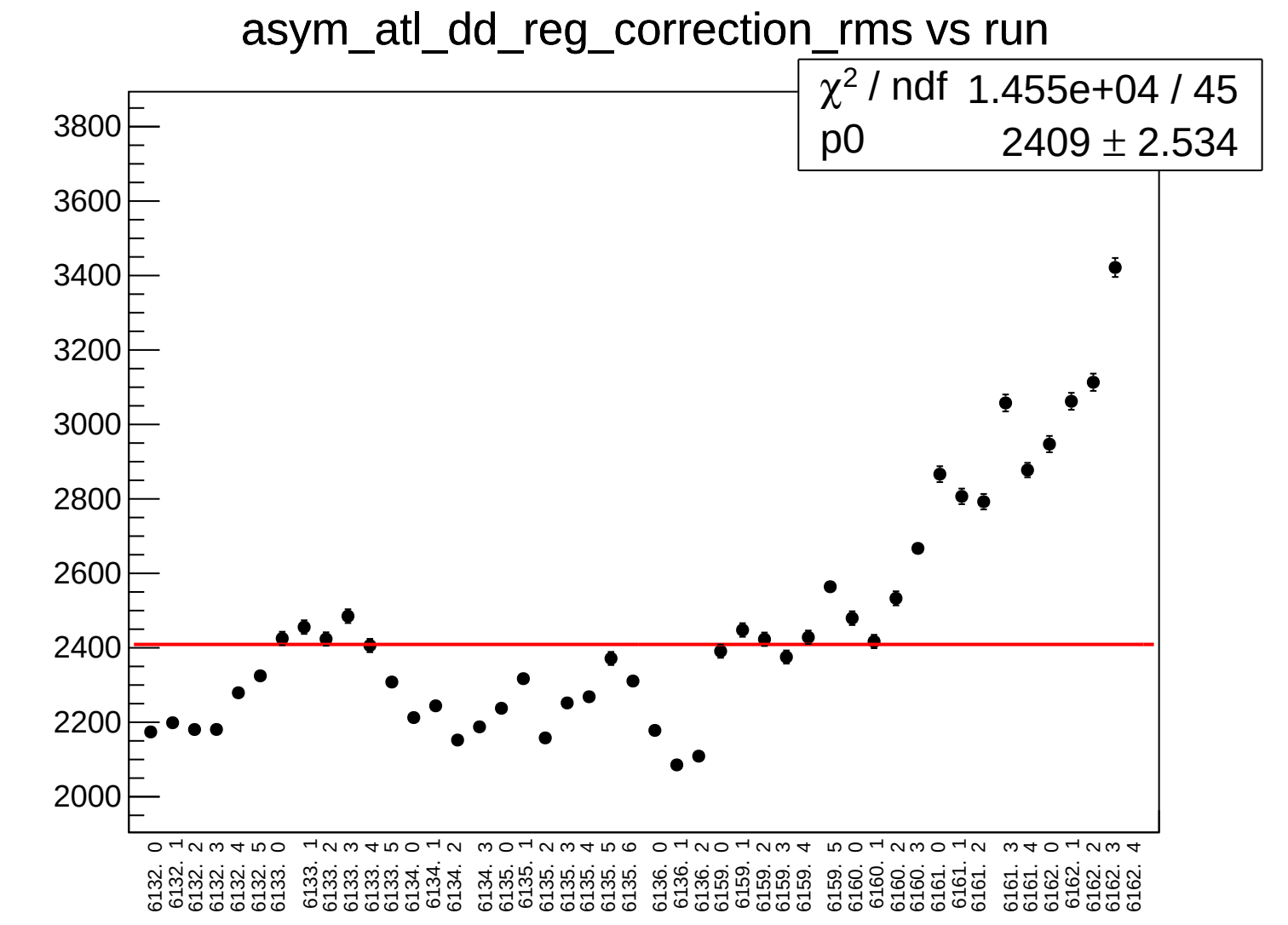

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.713e+05 / 45
p0 1.006e−10 ± 1.504e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

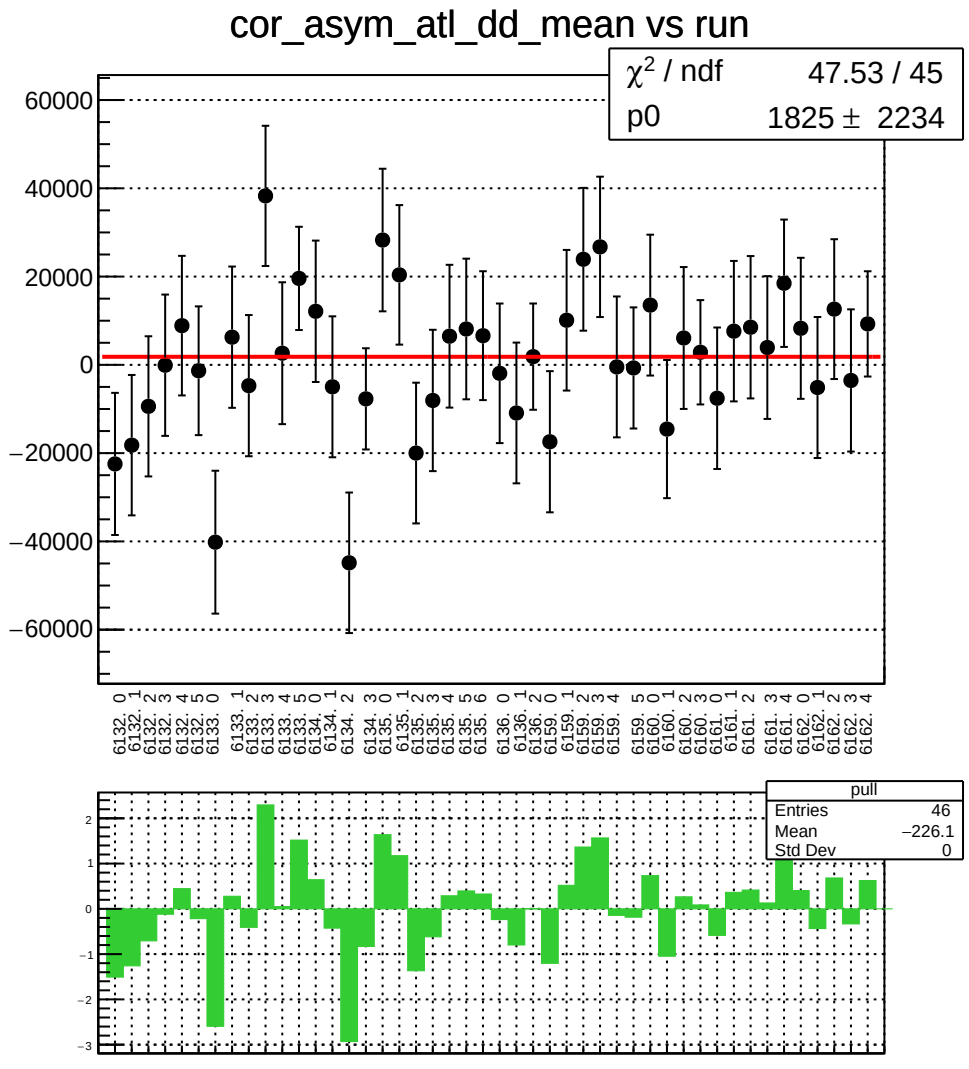

reg_asym_atl_dd_mean vs run
χ² / ndf 47.52 / 45
p0 1825 ± 2234
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −226.2
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean −0.01264
Std Dev 1.016
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_rms vs run
χ² / ndf 67.37 / 45
p0 1514 ± 1.58
1550
1540
1530
1520
1510
1500
1490
1480
1470
1460
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl_dd_reg_correction_mean vs run
χ² / ndf 46.3 / 45
p0 −1188 ± 3584
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 693.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.006858
Std Dev 1.003
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_reg_correction_rms vs run
χ² / ndf 1.455e+04 / 45
p0 2409 ± 2.534
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_atl_dd_mean vs run
χ² / ndf 47.53 / 45
p0 1825 ± 2234
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
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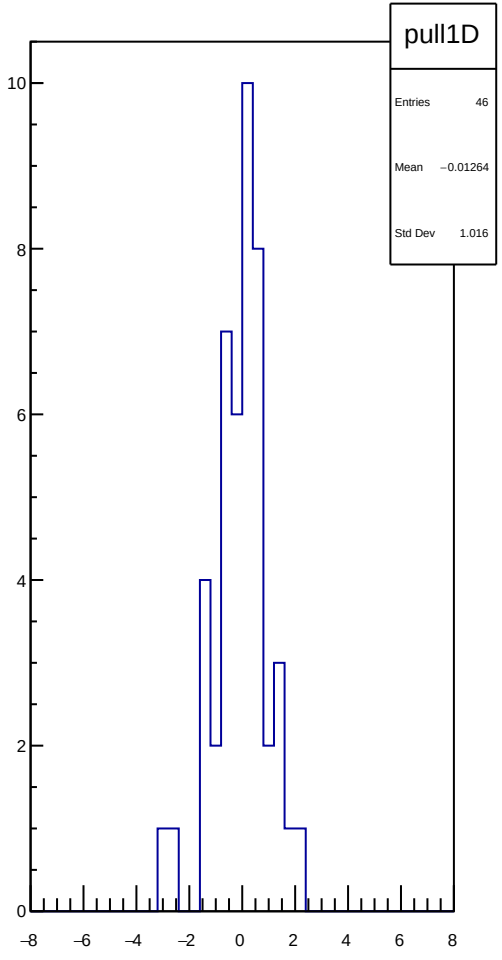
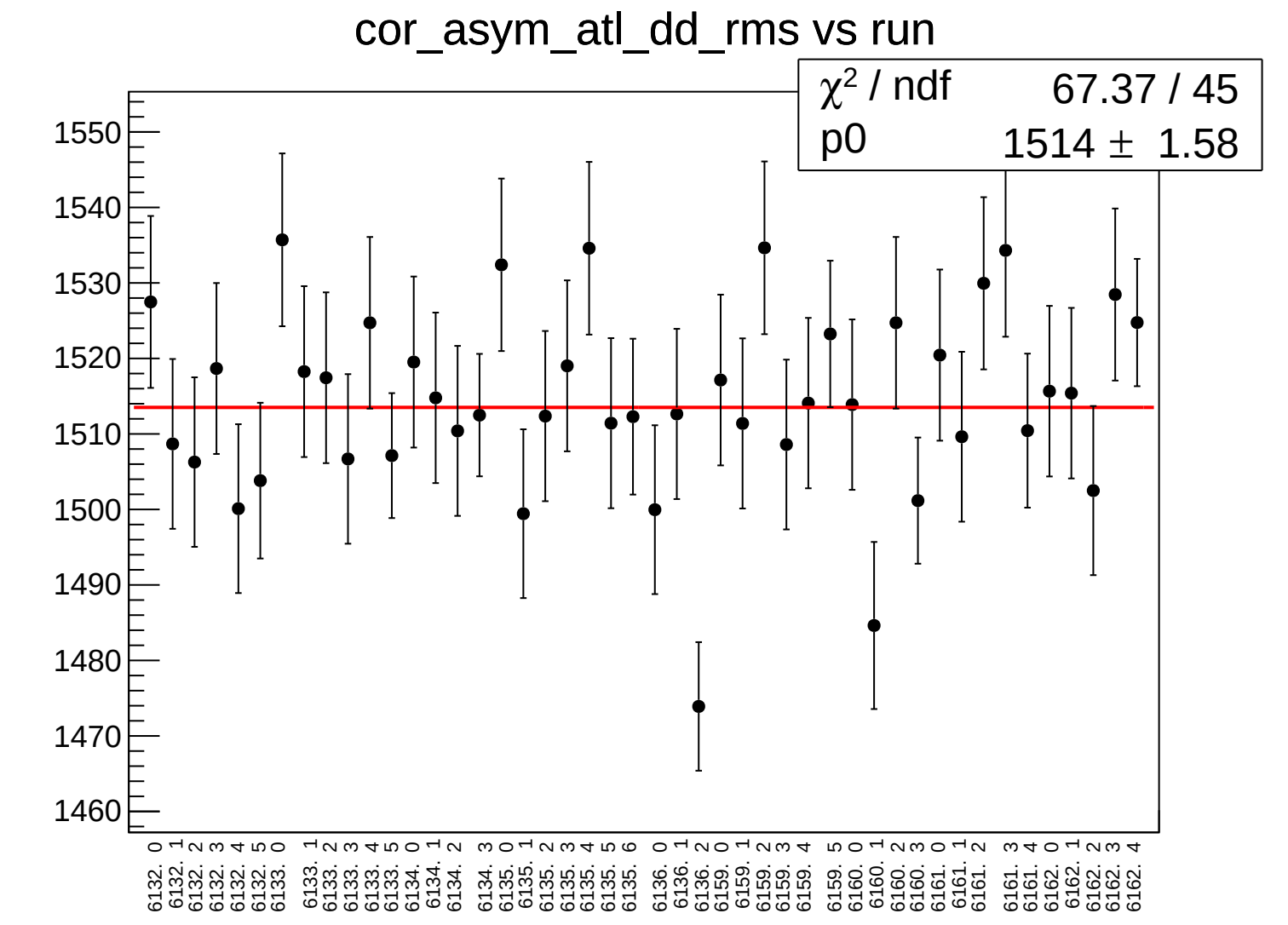
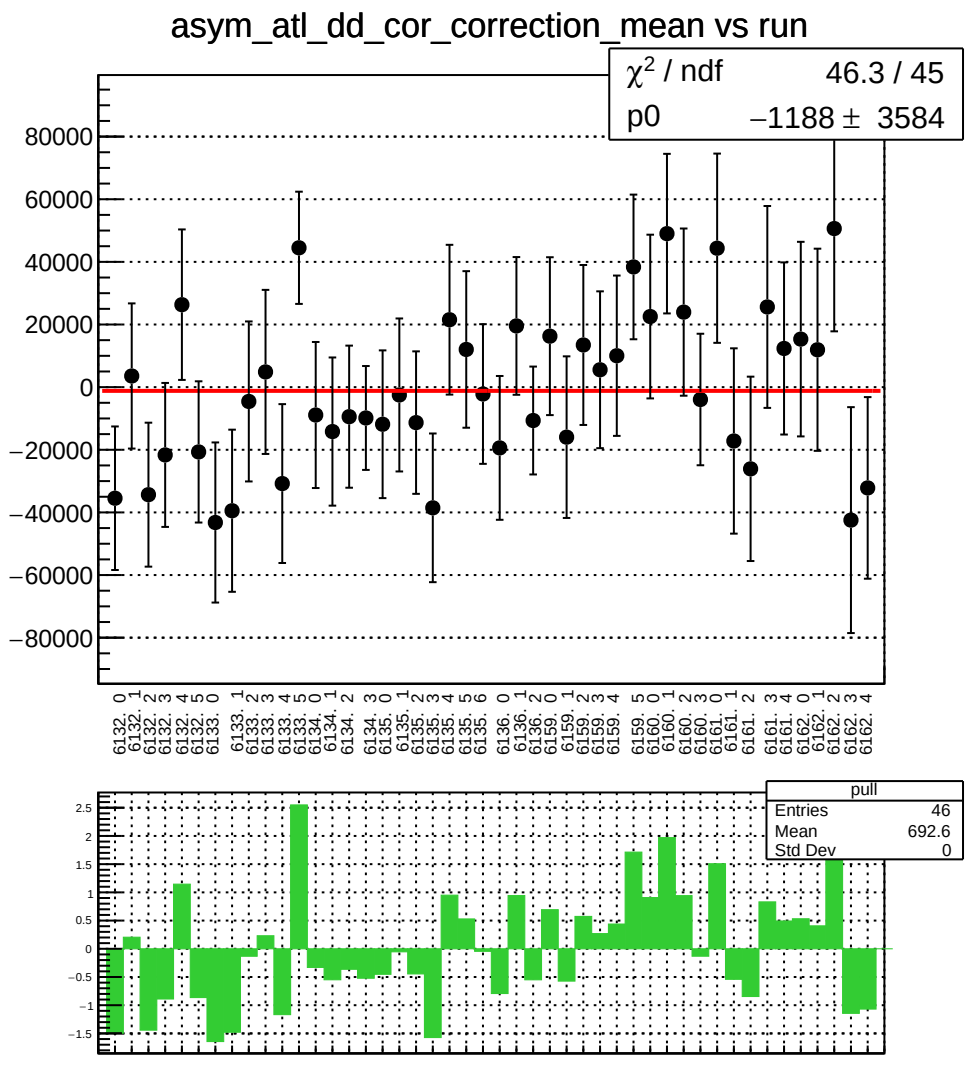
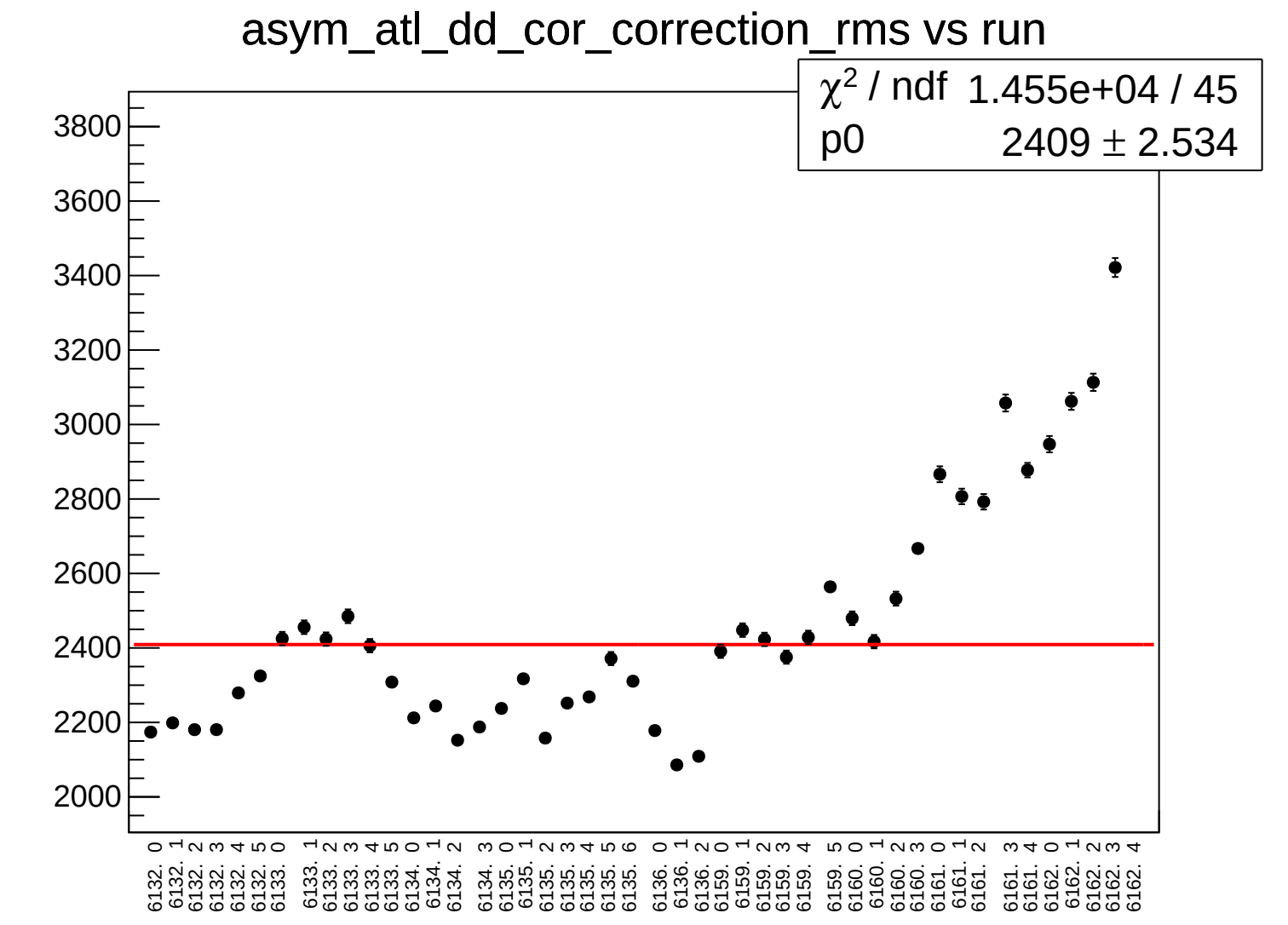
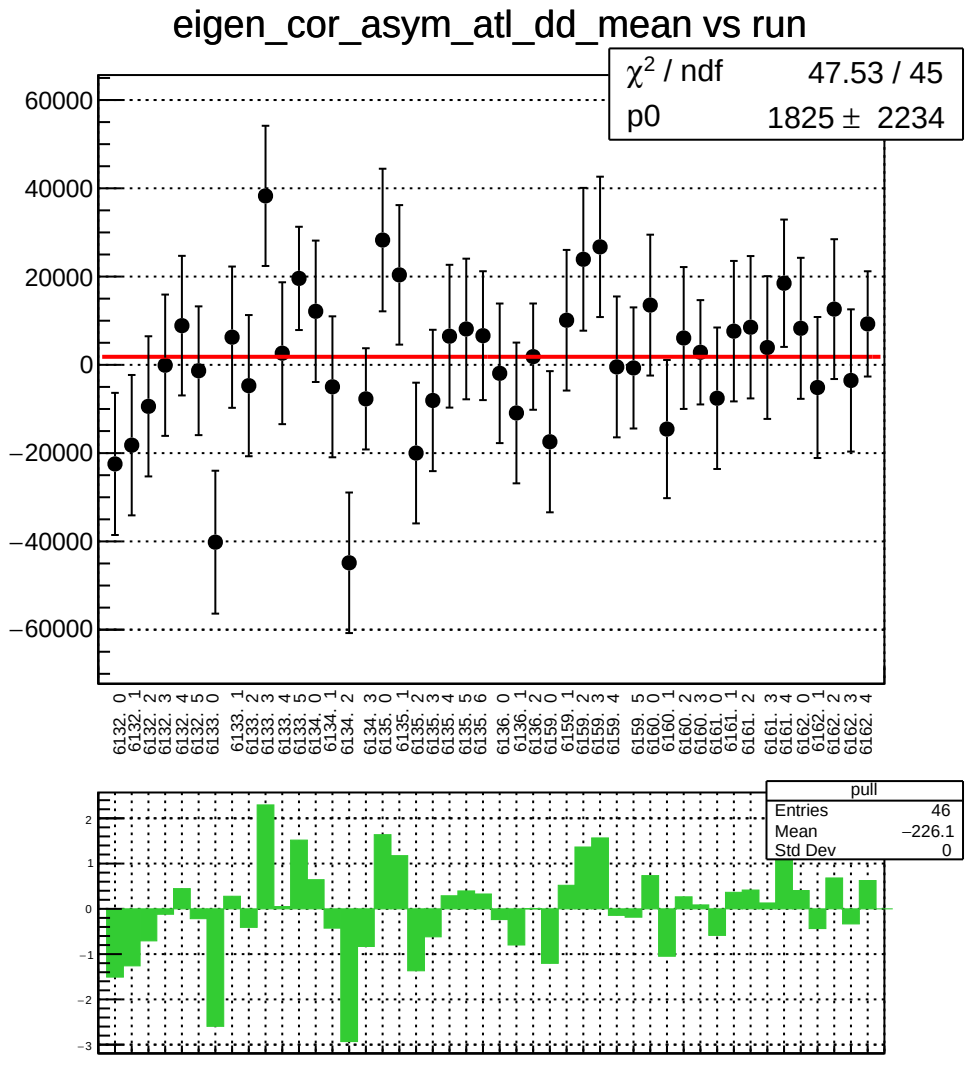
6162. 4
pull
Entries 46
Mean −226.1
Std Dev 0
2
1
0
−1
−2
−3

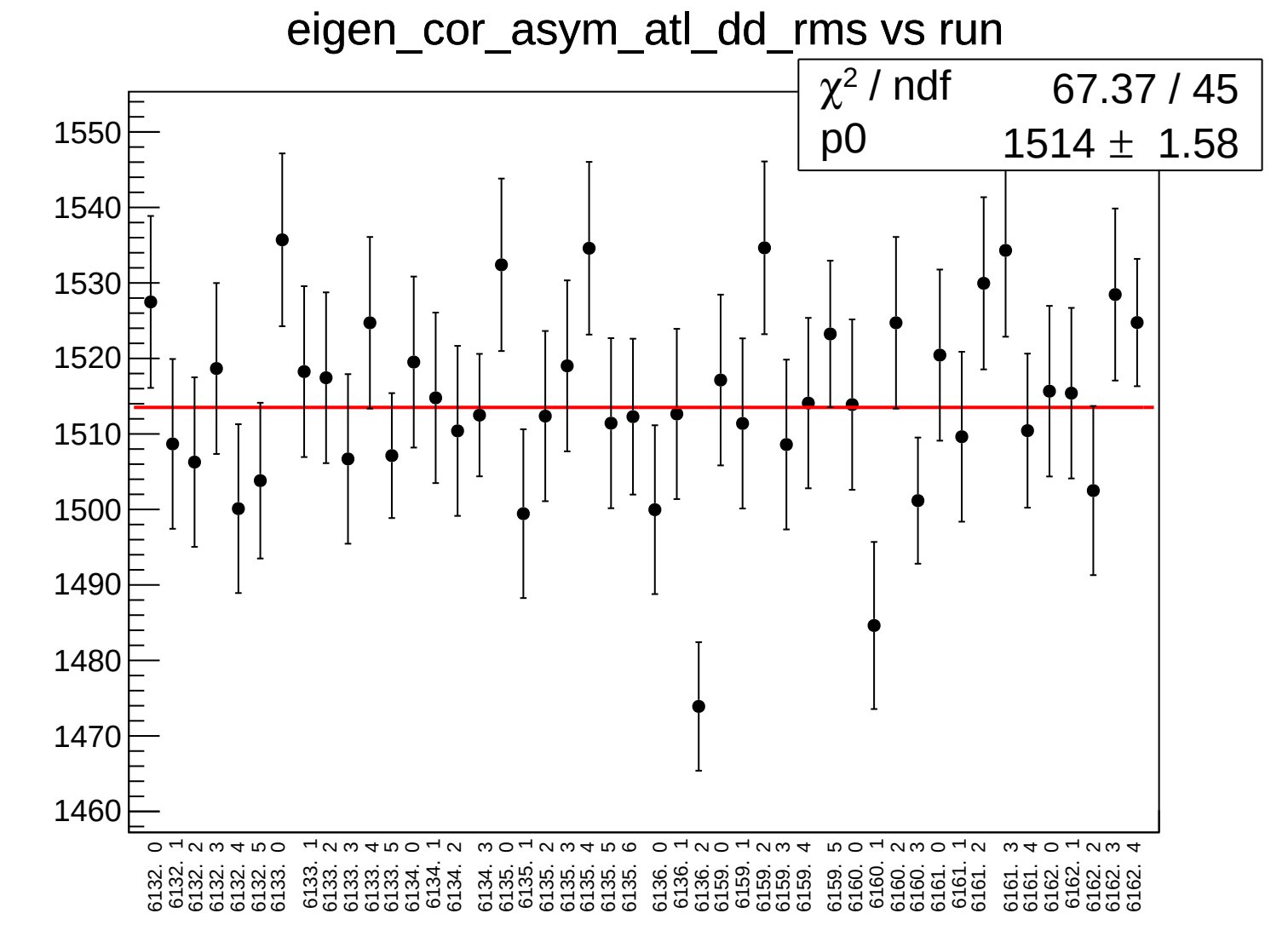

pull1D
Entries 46
Mean −0.01264
Std Dev 1.016
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

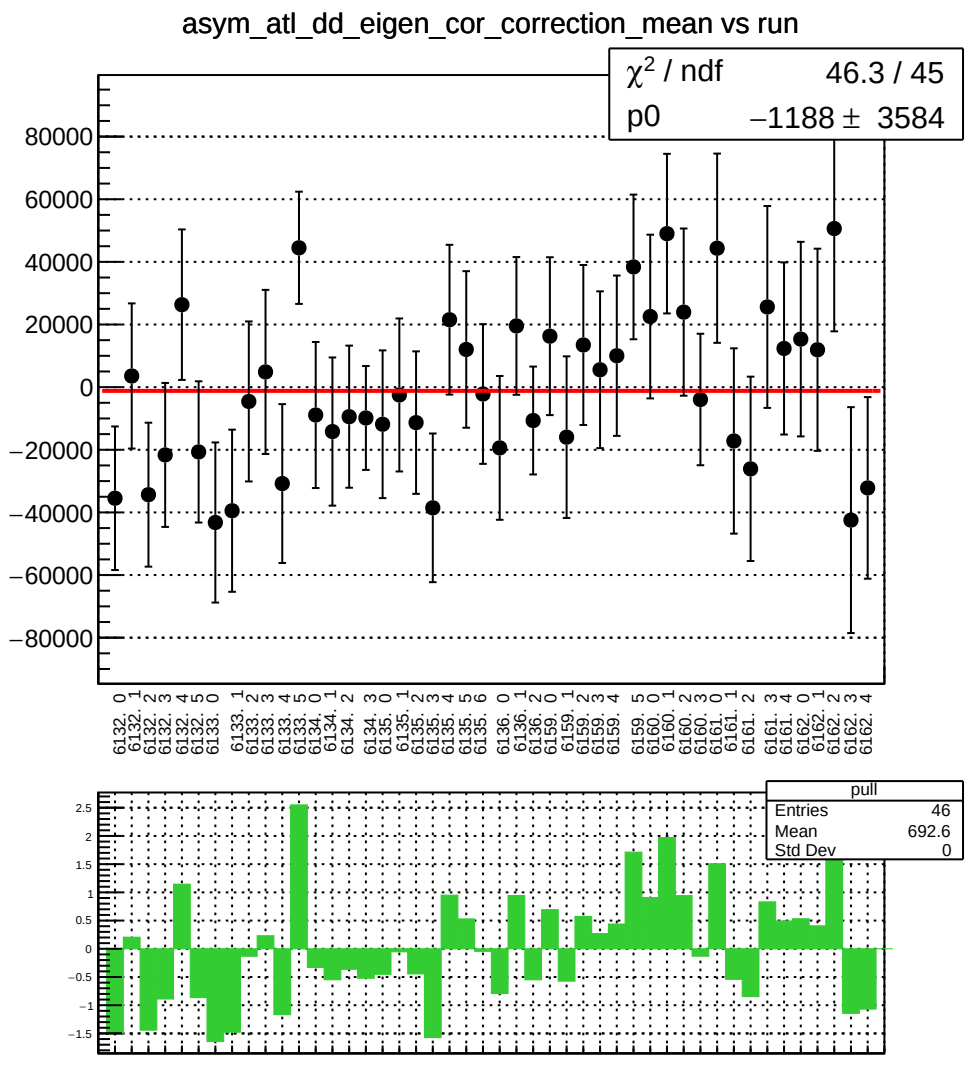

cor_asym_atl_dd_rms vs run
χ² / ndf 67.37 / 45
p0 1514 ± 1.58
1550
1540
1530
1520
1510
1500
1490
1480
1470
1460
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

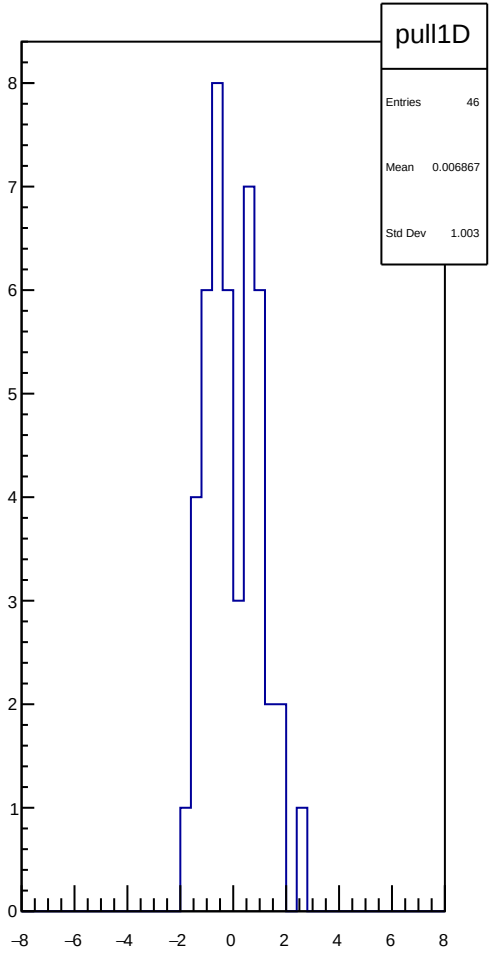

asym_atl_dd_cor_correction_mean vs run
χ² / ndf 46.3 / 45
p0 −1188 ± 3584
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 692.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.006867
Std Dev 1.003
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

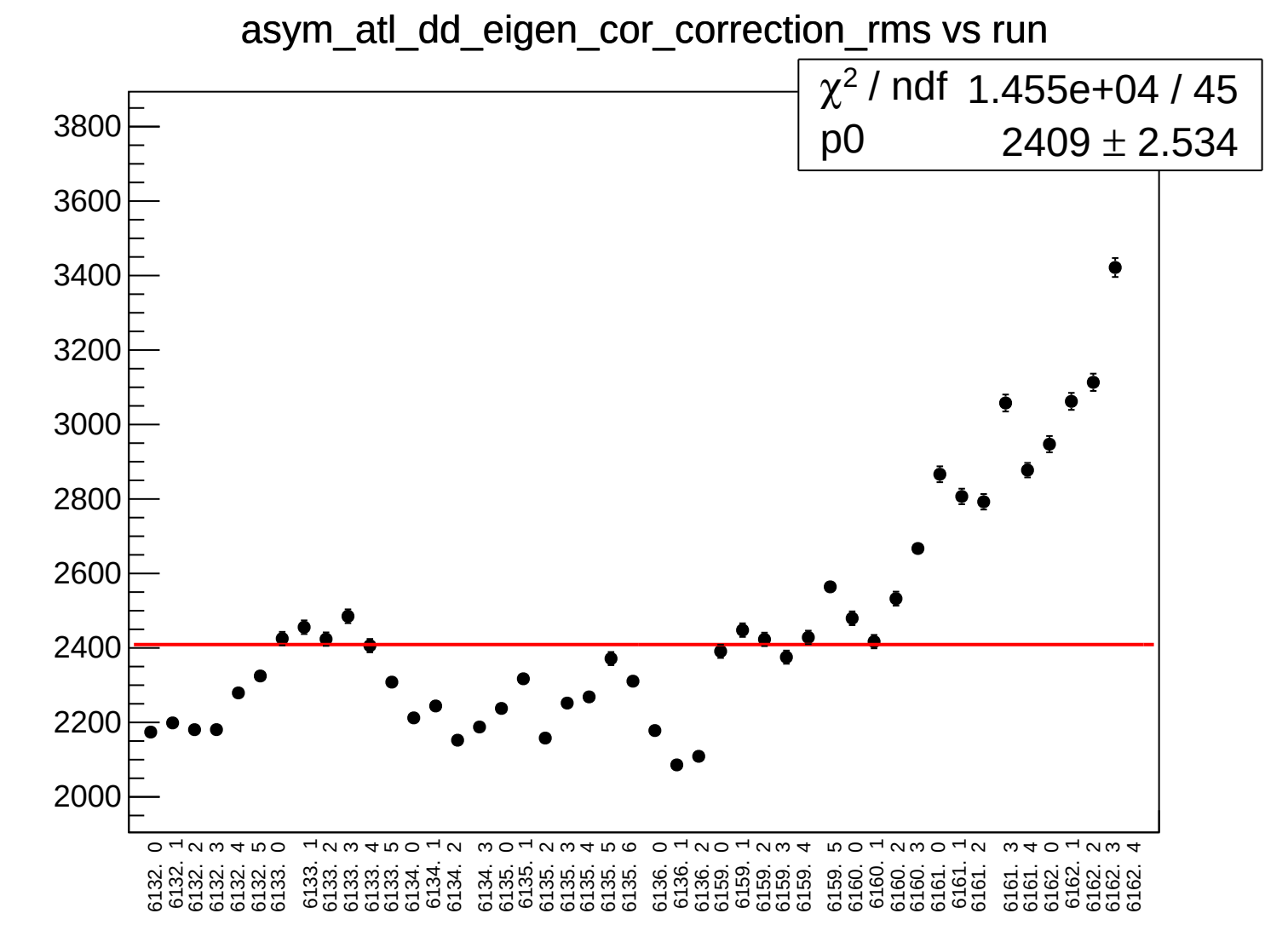

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 1.455e+04 / 45
p0 2409 ± 2.534
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

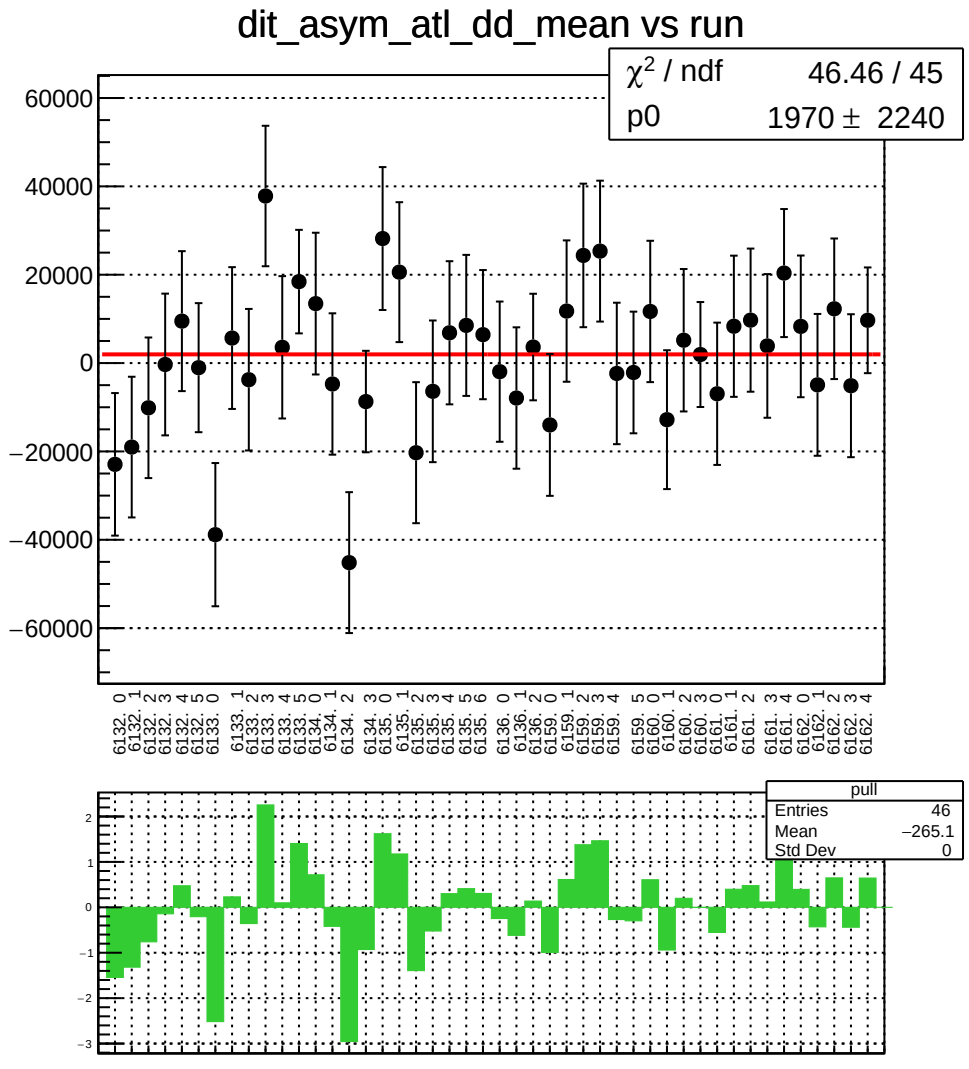

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 47.53 / 45
p0 1825 ± 2234
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −226.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.01264
Std Dev 1.016
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

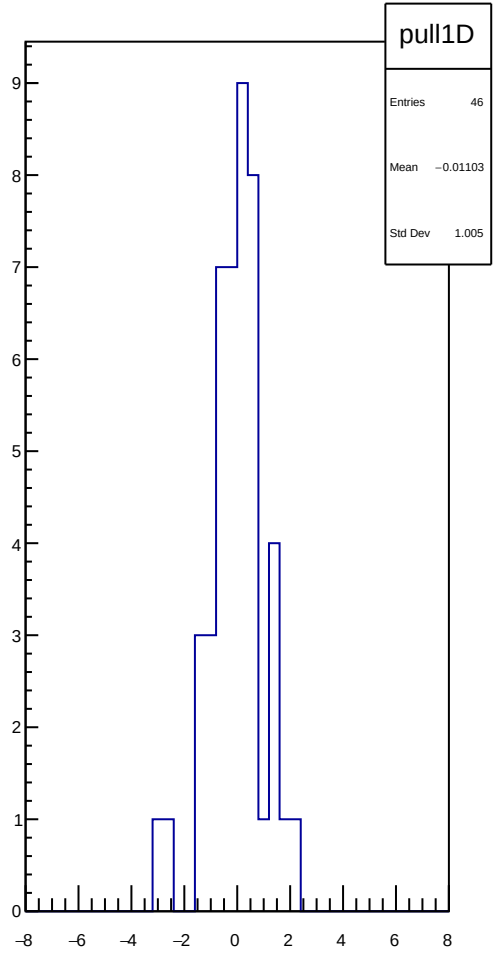

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 67.37 / 45
p0 1514 ± 1.58
1550
1540
1530
1520
1510
1500
1490
1480
1470
1460
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

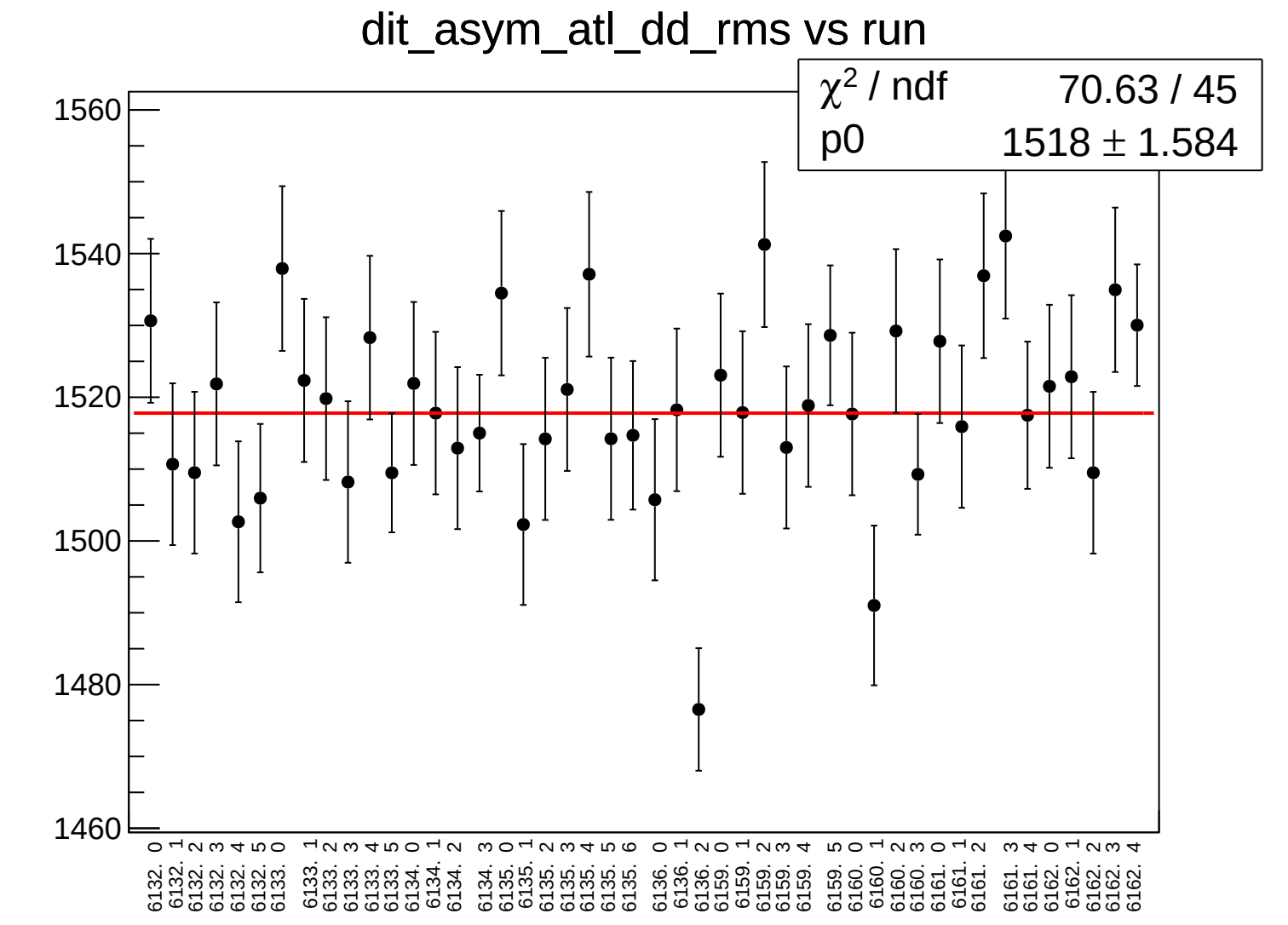

asym_atl_dd_eigen_cor_correction_mean vs run
χ² / ndf 46.3 / 45
p0 −1188 ± 3584
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 692.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

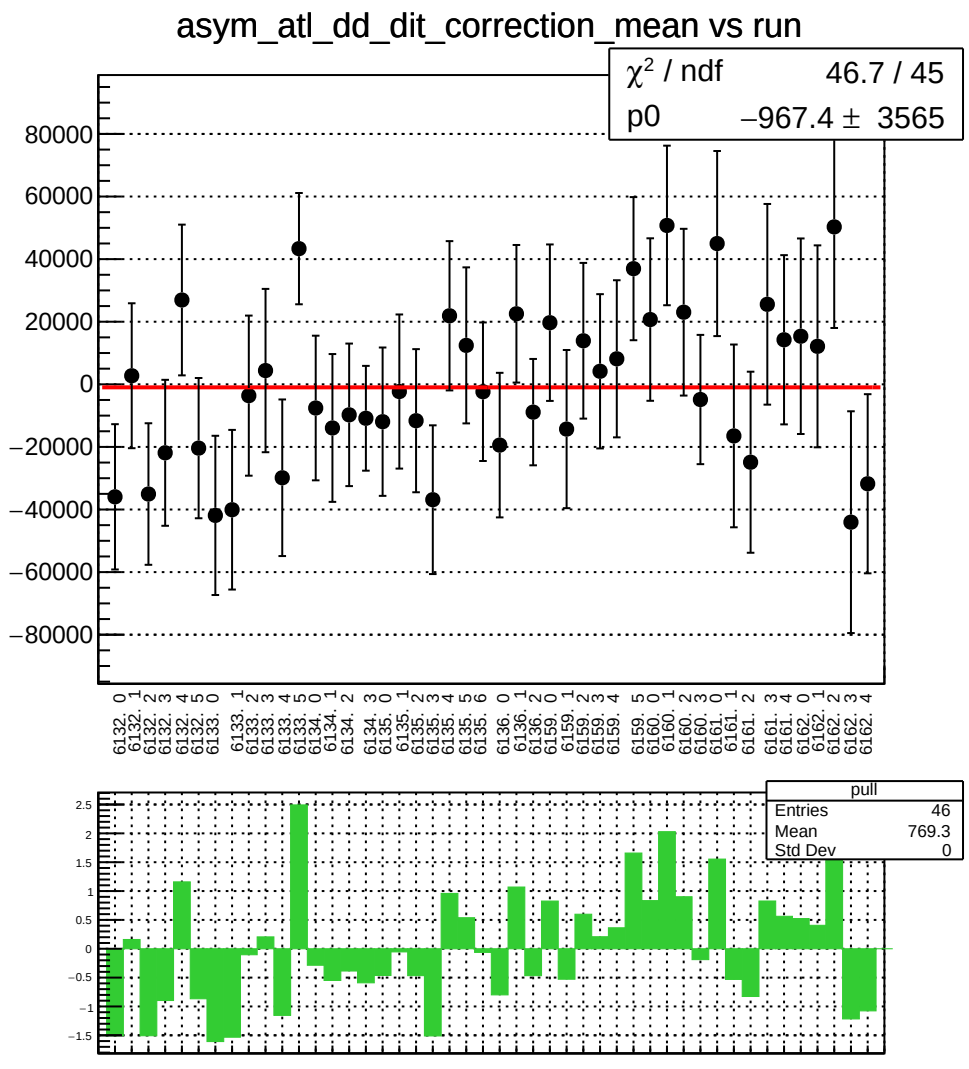

pull1D
Entries 46
Mean 0.006867
Std Dev 1.003
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

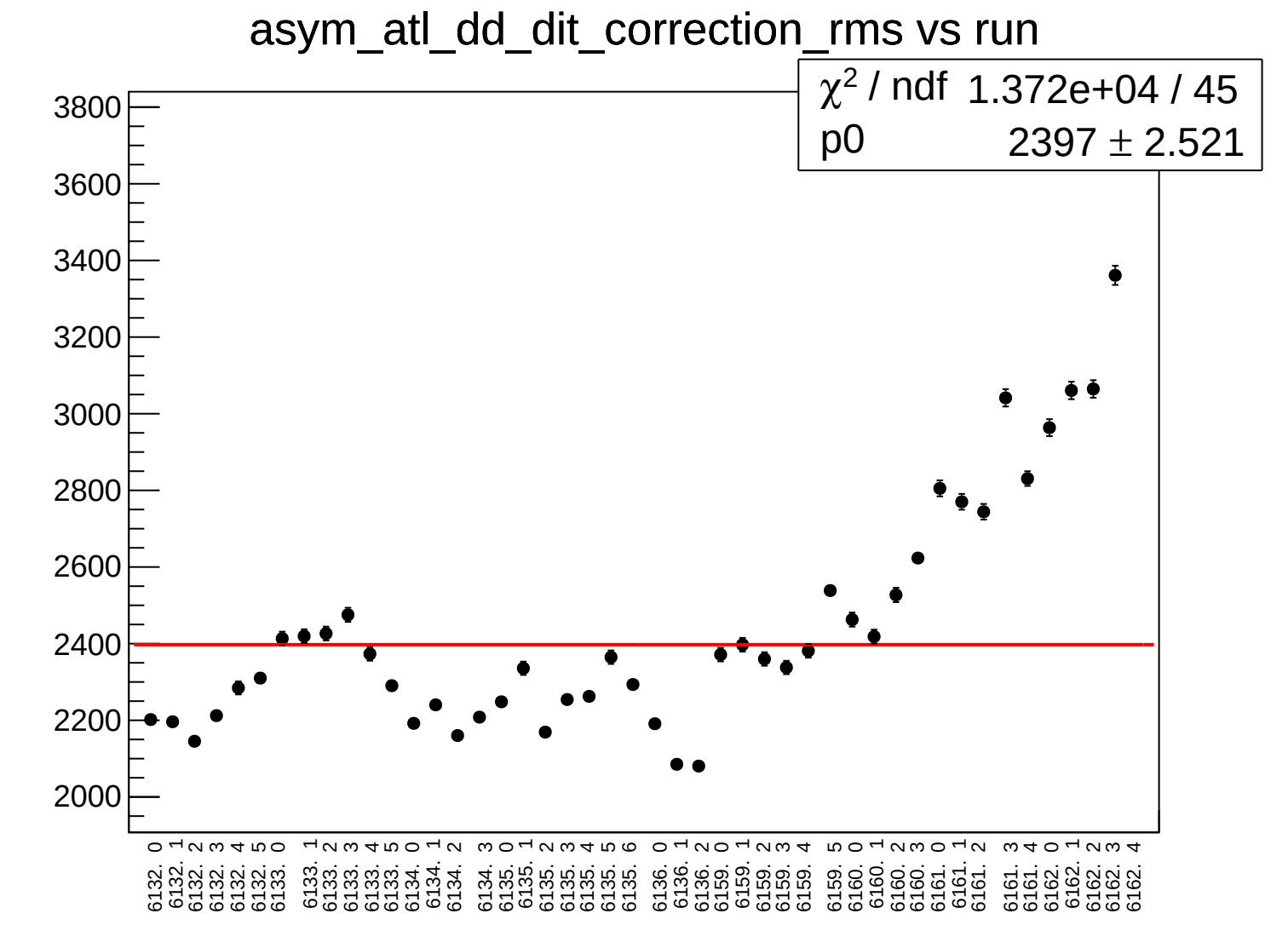

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.455e+04 / 45
p0 2409 ± 2.534
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

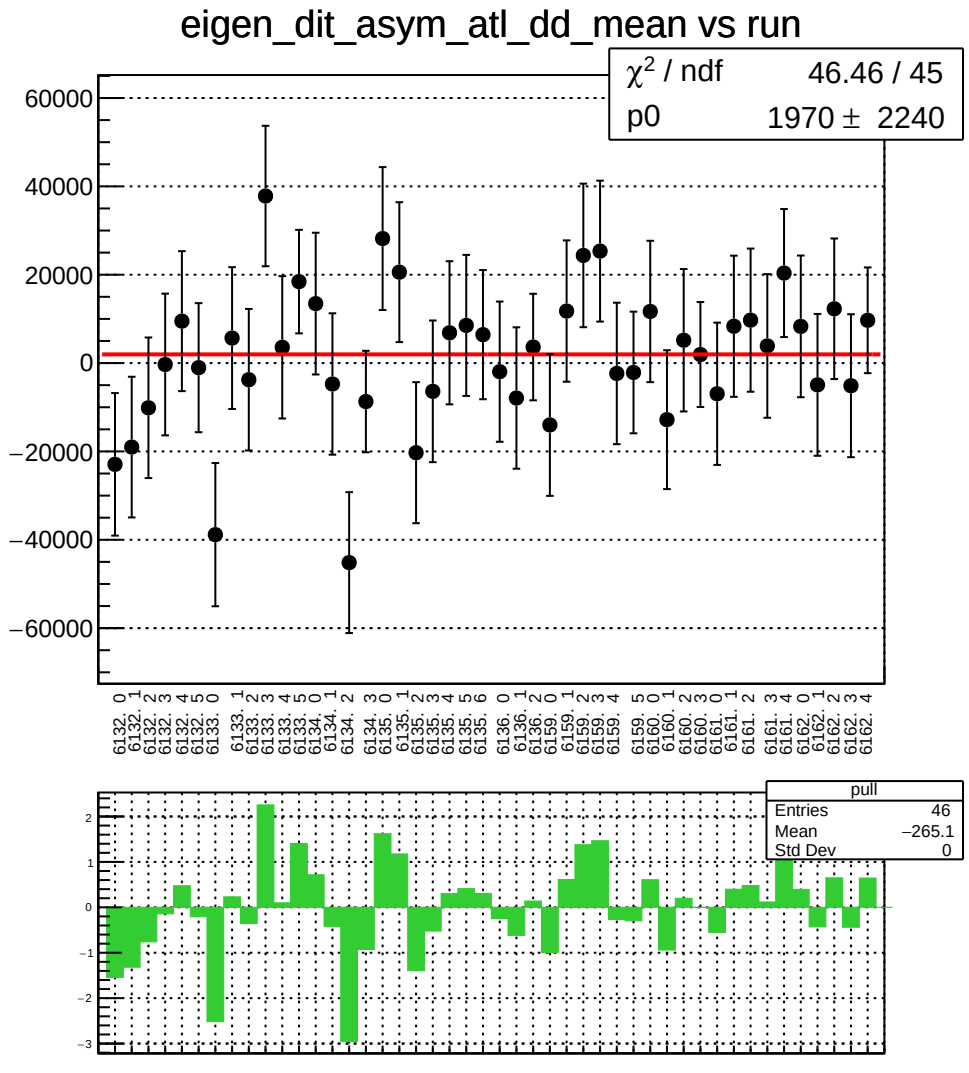

dit_asym_atl_dd_mean vs run
χ² / ndf 46.46 / 45
p0 1970 ± 2240
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −265.1
Std Dev 0
2
1
0
−1
−2
−3

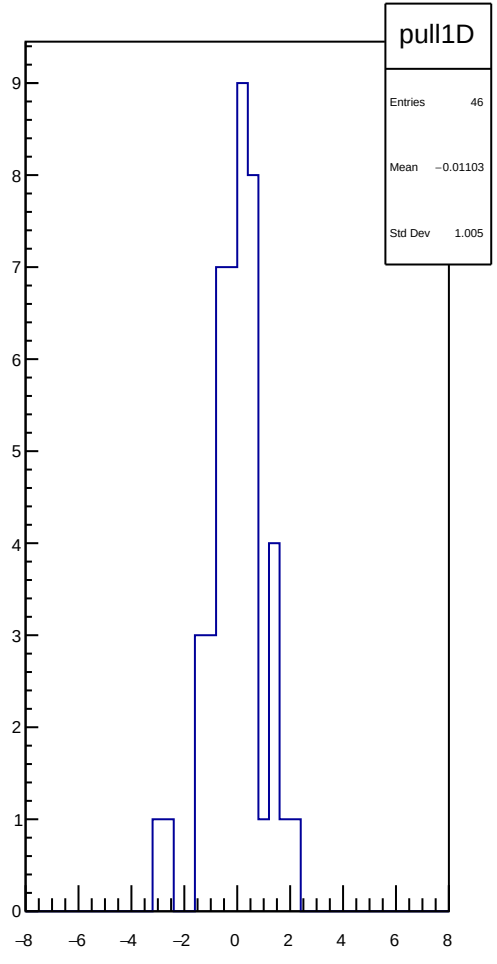

pull1D
Entries 46
Mean −0.01103
Std Dev 1.005
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

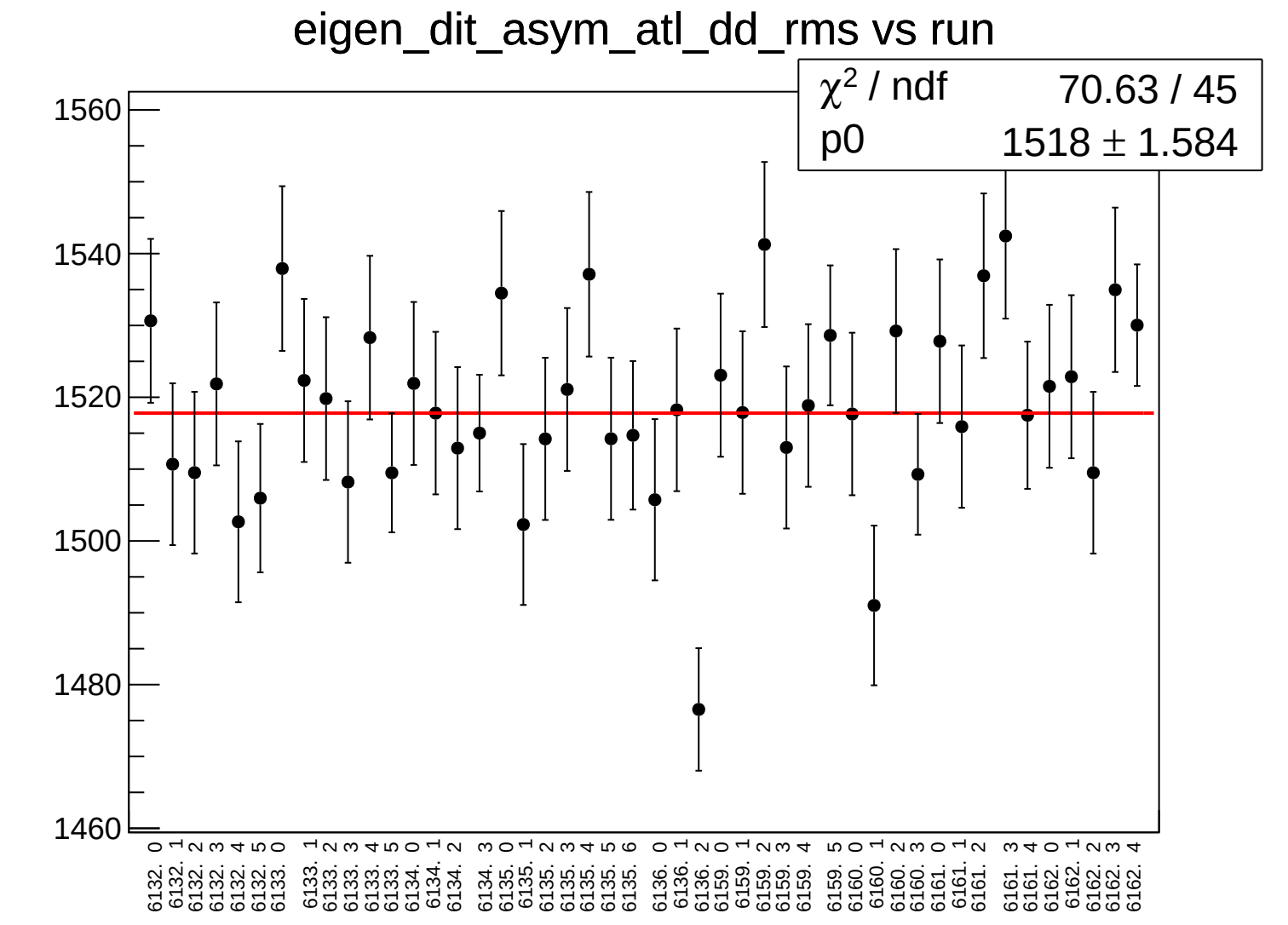

dit_asym_atl_dd_rms vs run
χ² / ndf 70.63 / 45
p0 1518 ± 1.584
1560
1540
1520
1500
1480
1460
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

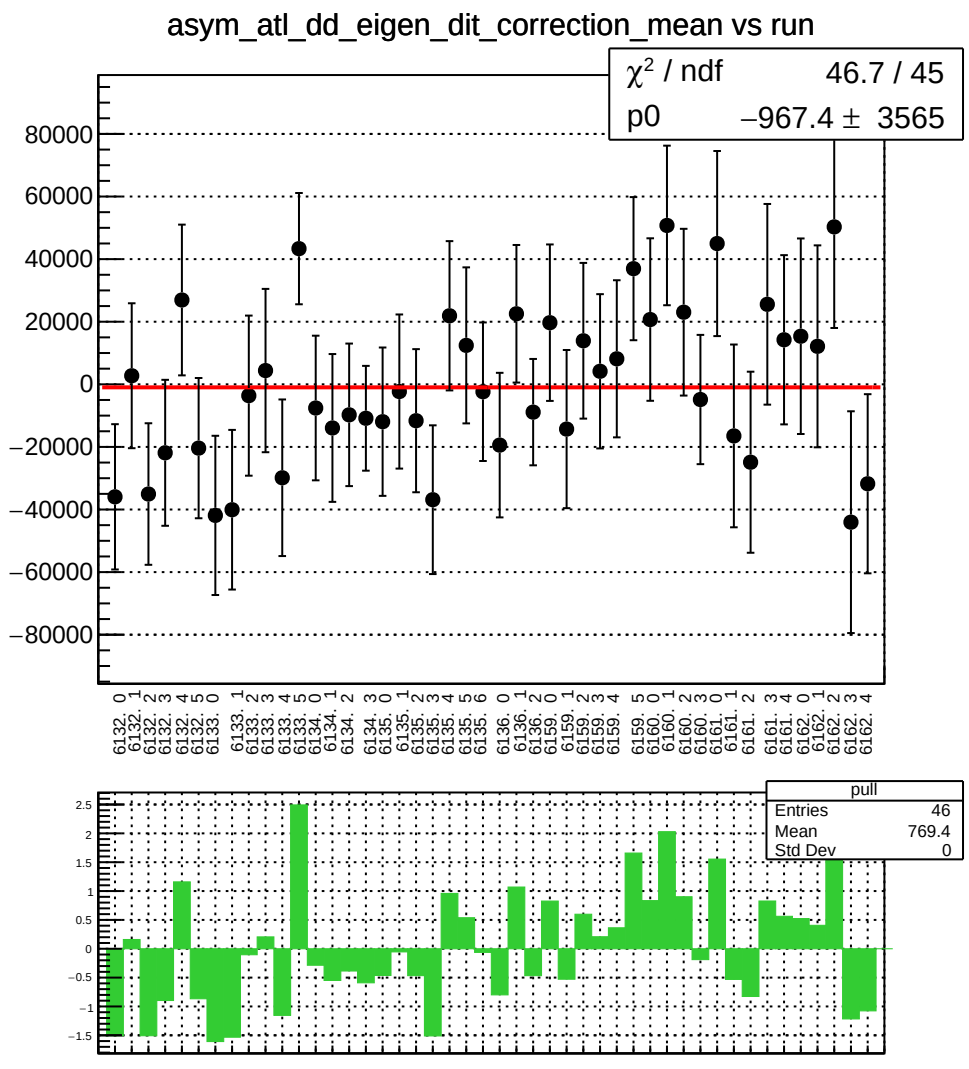

asym_atl_dd_dit_correction_mean vs run
χ² / ndf 46.7 / 45
p0 −967.4 ± 3565
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 769.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.006228
Std Dev 1.008
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

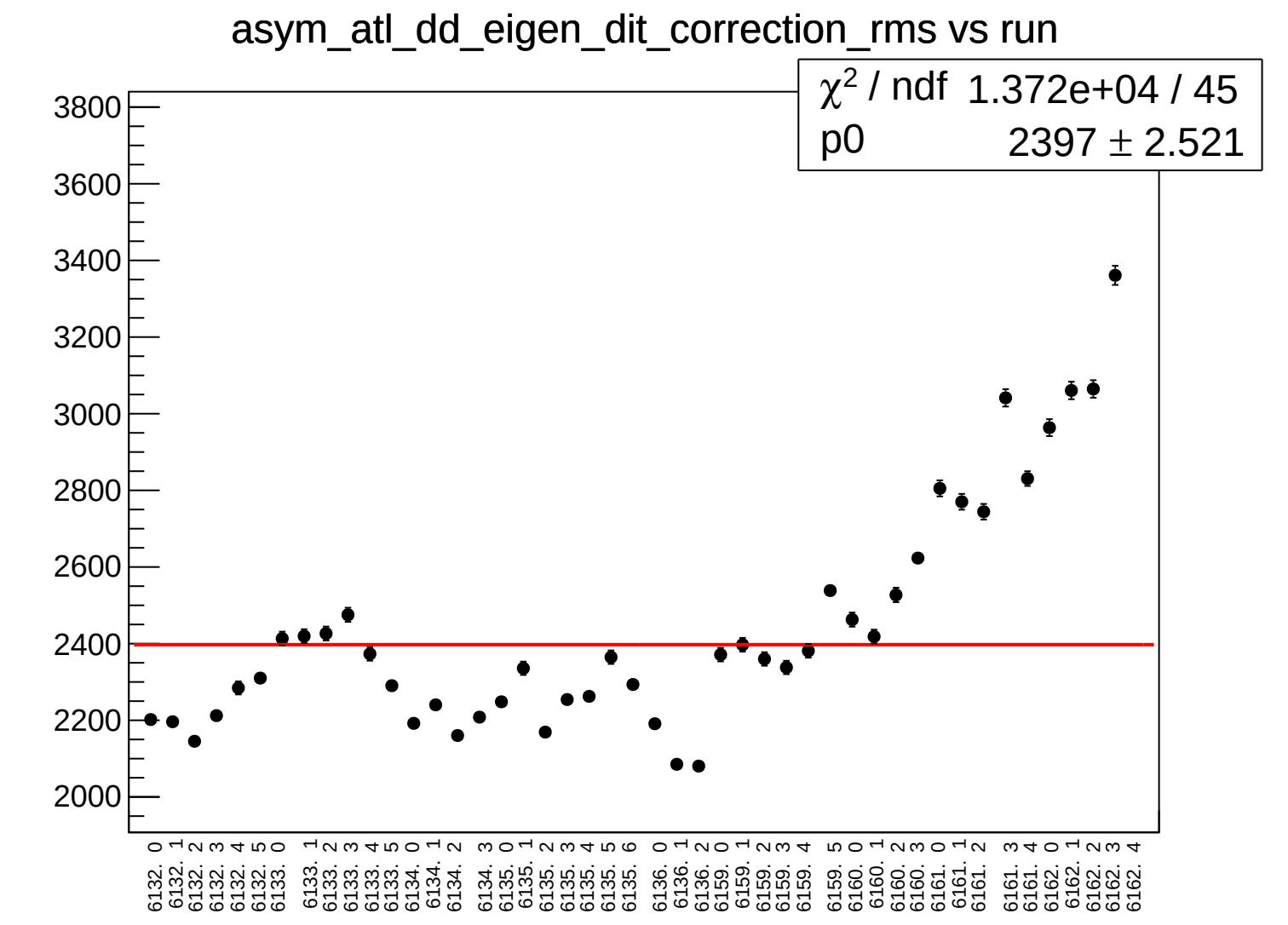

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 1.372e+04 / 45
p0 2397 ± 2.521
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

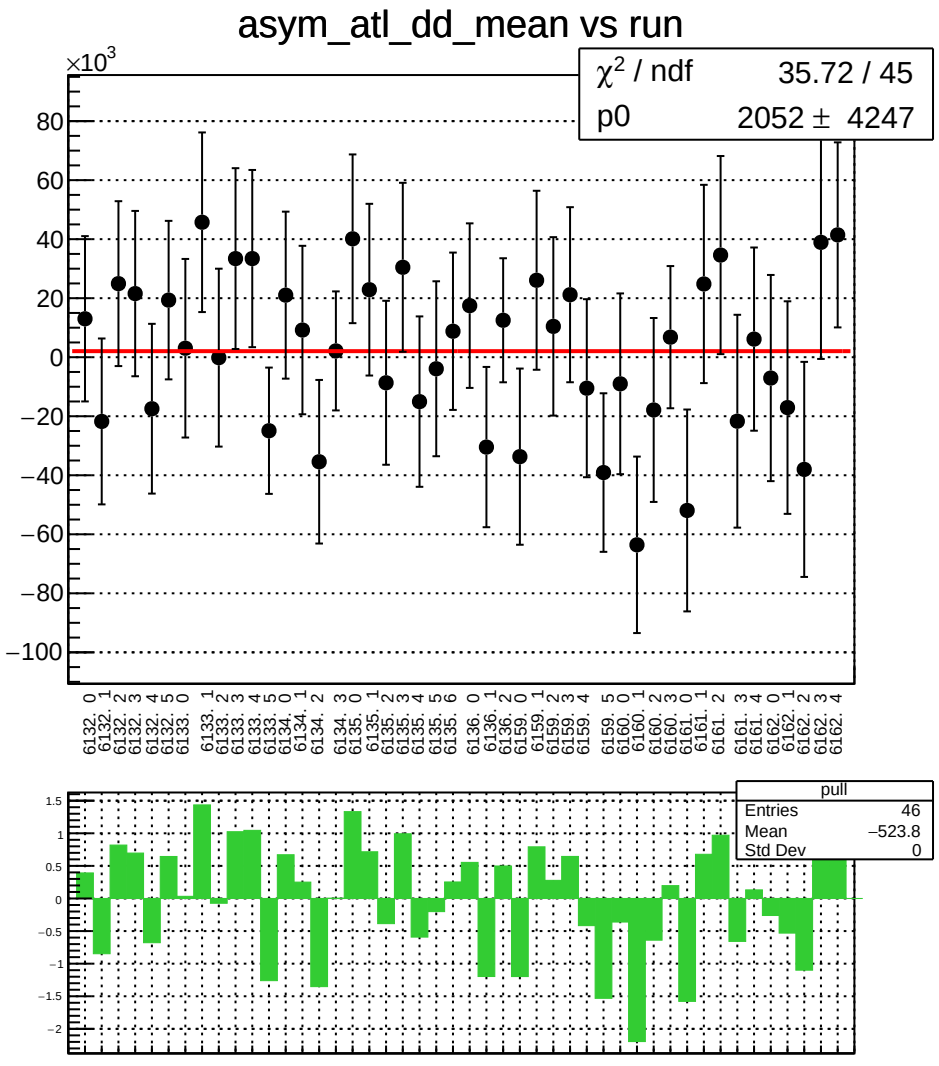

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 46.46 / 45
p0 1970 ± 2240
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −265.1
Std Dev 0
2
1
0
−1
−2
−3

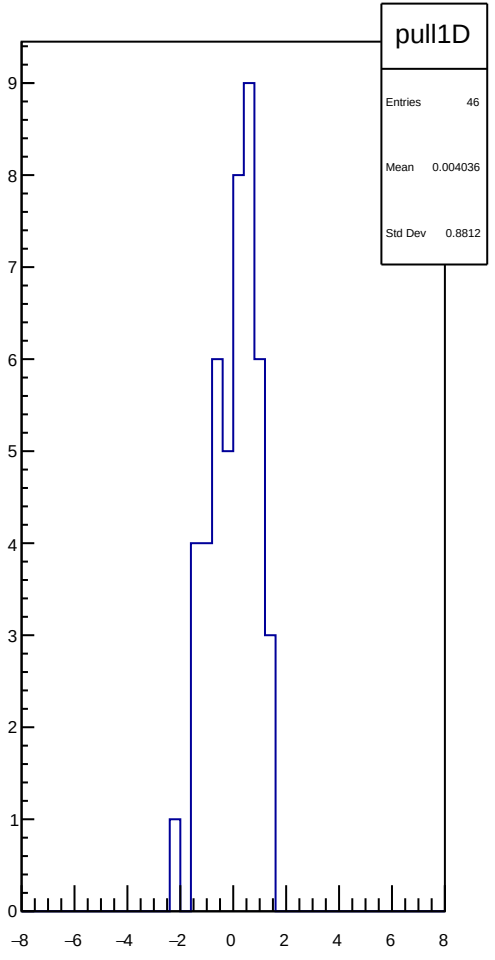

pull1D
Entries 46
Mean −0.01103
Std Dev 1.005
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

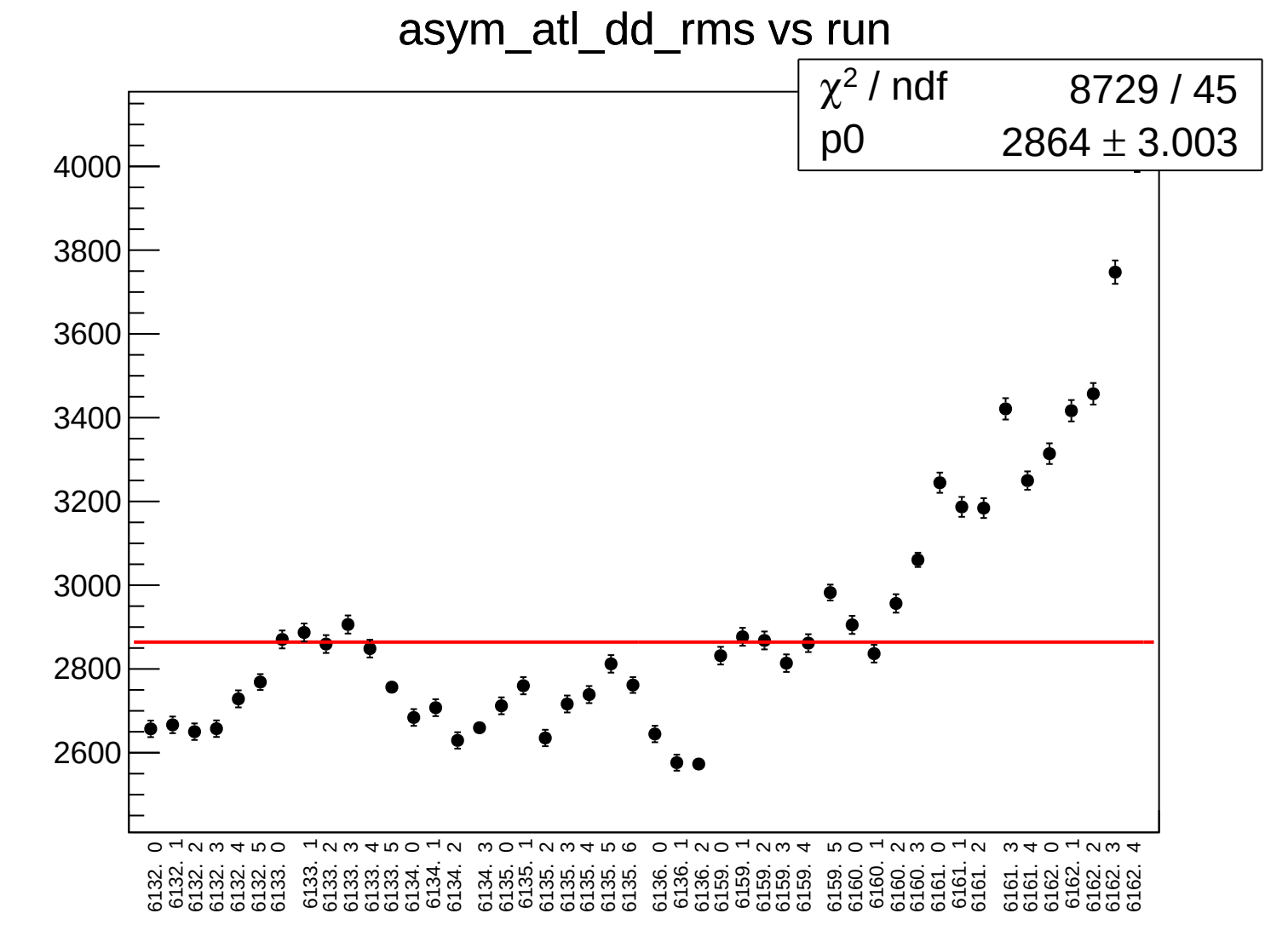

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 70.63 / 45
p0 1518 ± 1.584
1560
1540
1520
1500
1480
1460
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl_dd_eigen_dit_correction_mean vs run
χ² / ndf 46.7 / 45
p0 −967.4 ± 3565
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 769.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.006227
Std Dev 1.008
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.372e+04 / 45
p0 2397 ± 2.521
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl_dd_mean vs run
×10^3
χ² / ndf 35.72 / 45
p0 2052 ± 4247
pull
Entries 46
Mean −523.8
Std Dev 0


pull1D
Entries 46
Mean 0.004036
Std Dev 0.8812


asym_atl_dd_rms vs run
χ² / ndf 8729 / 45
p0 2864 ± 3.003
4000
3800
3600
3400
3200
3000
2800
2600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 0
6135. 1
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6135. 3
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6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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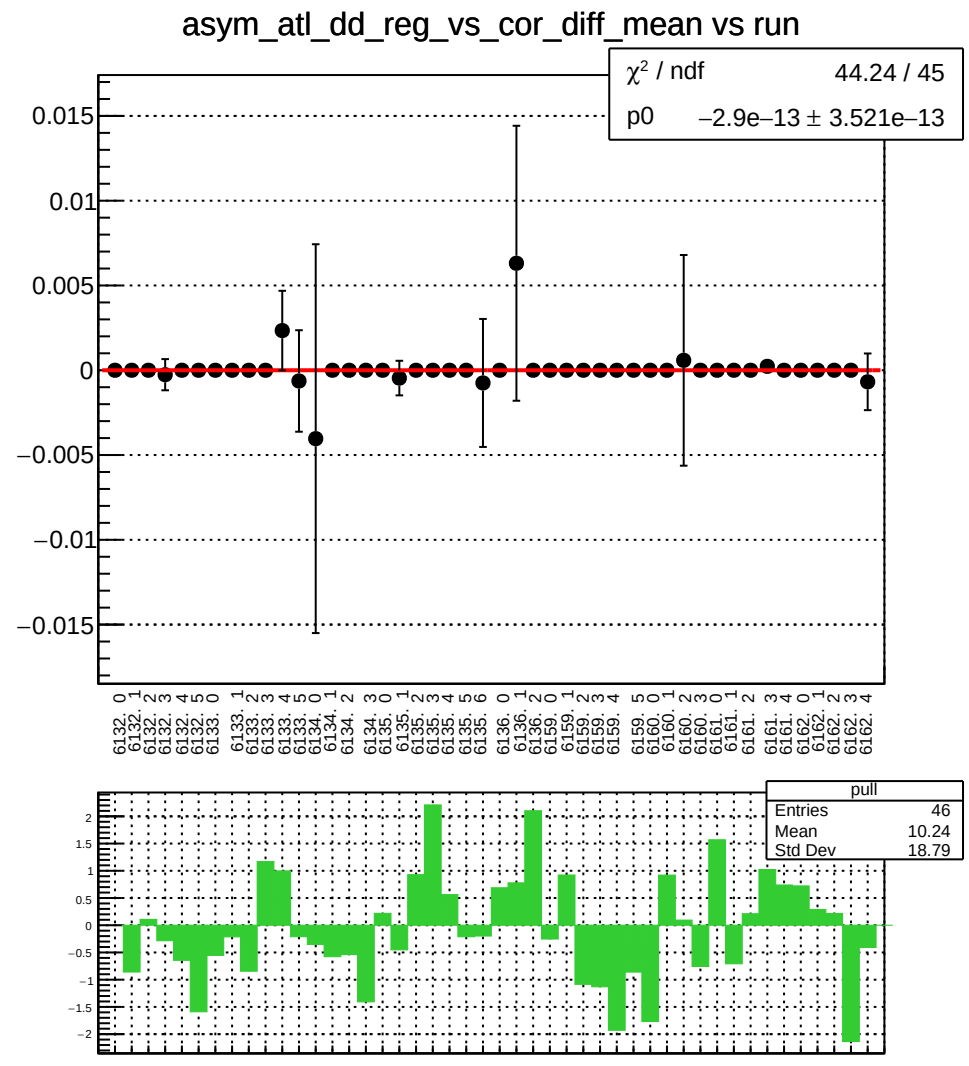
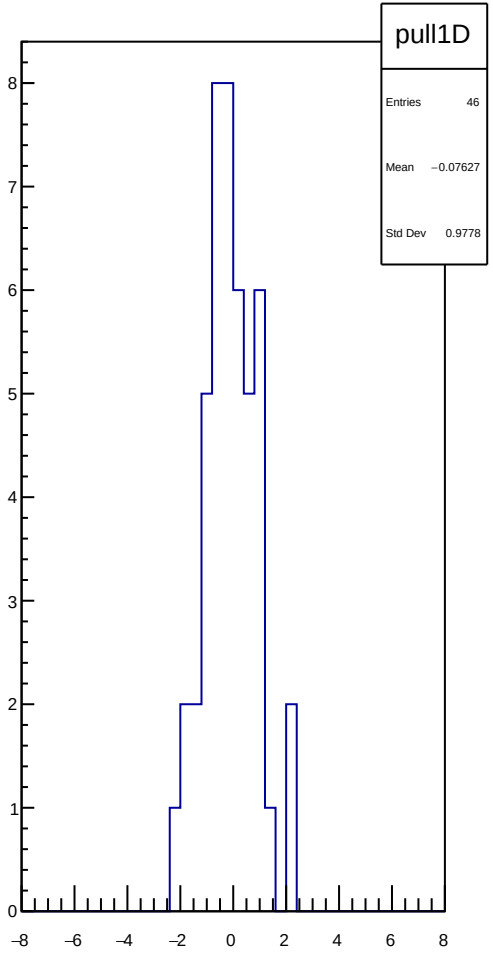
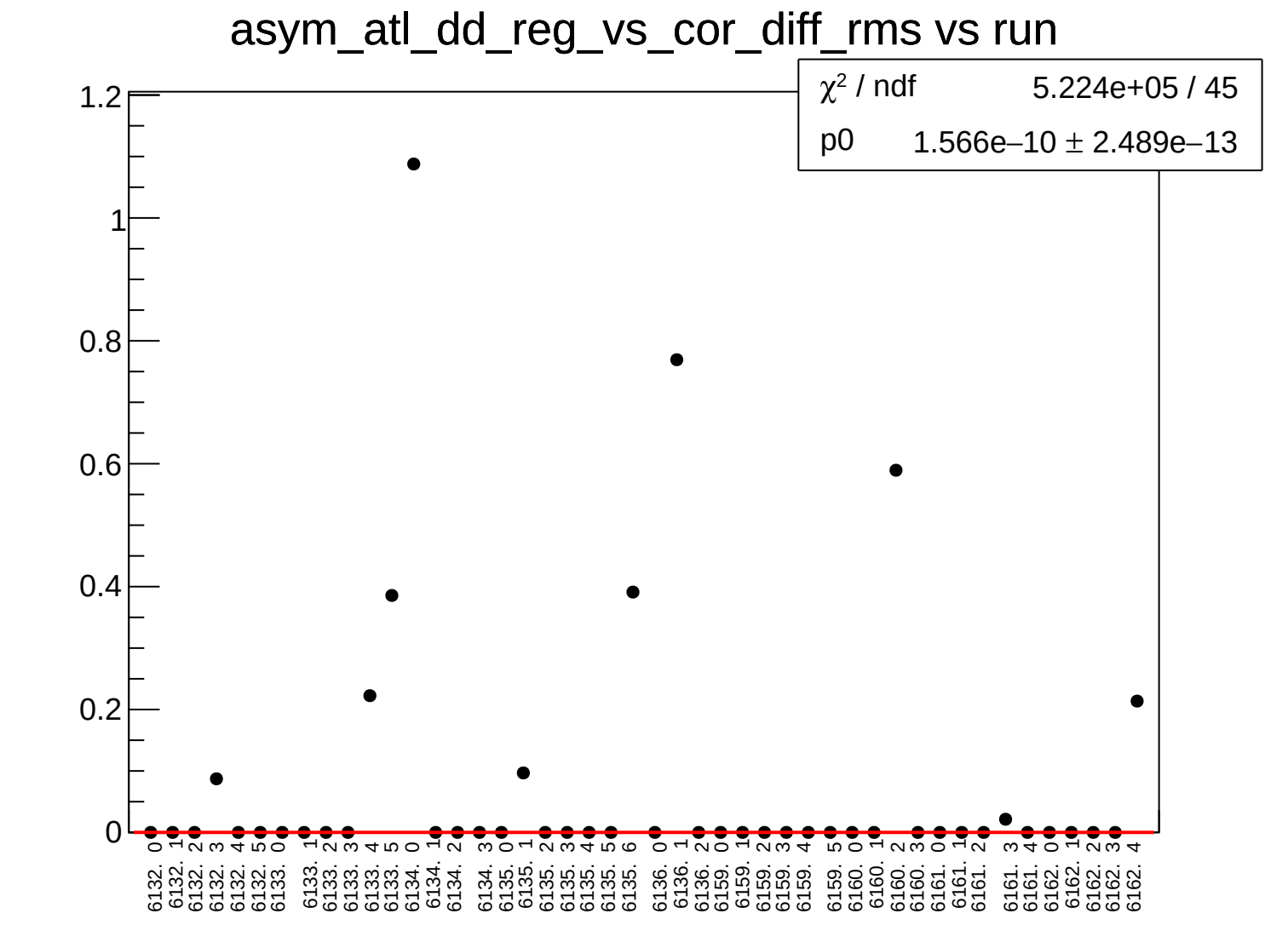
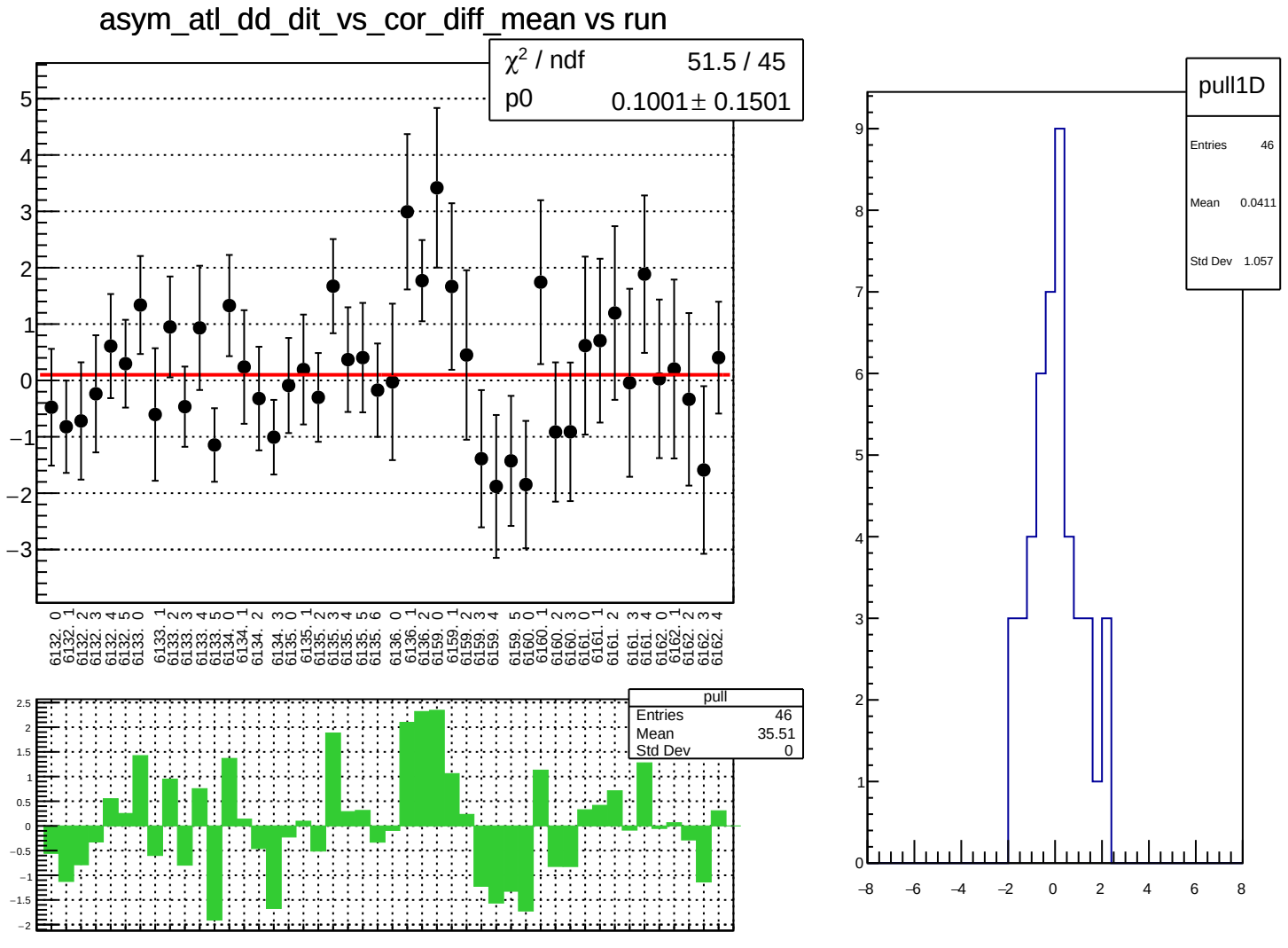
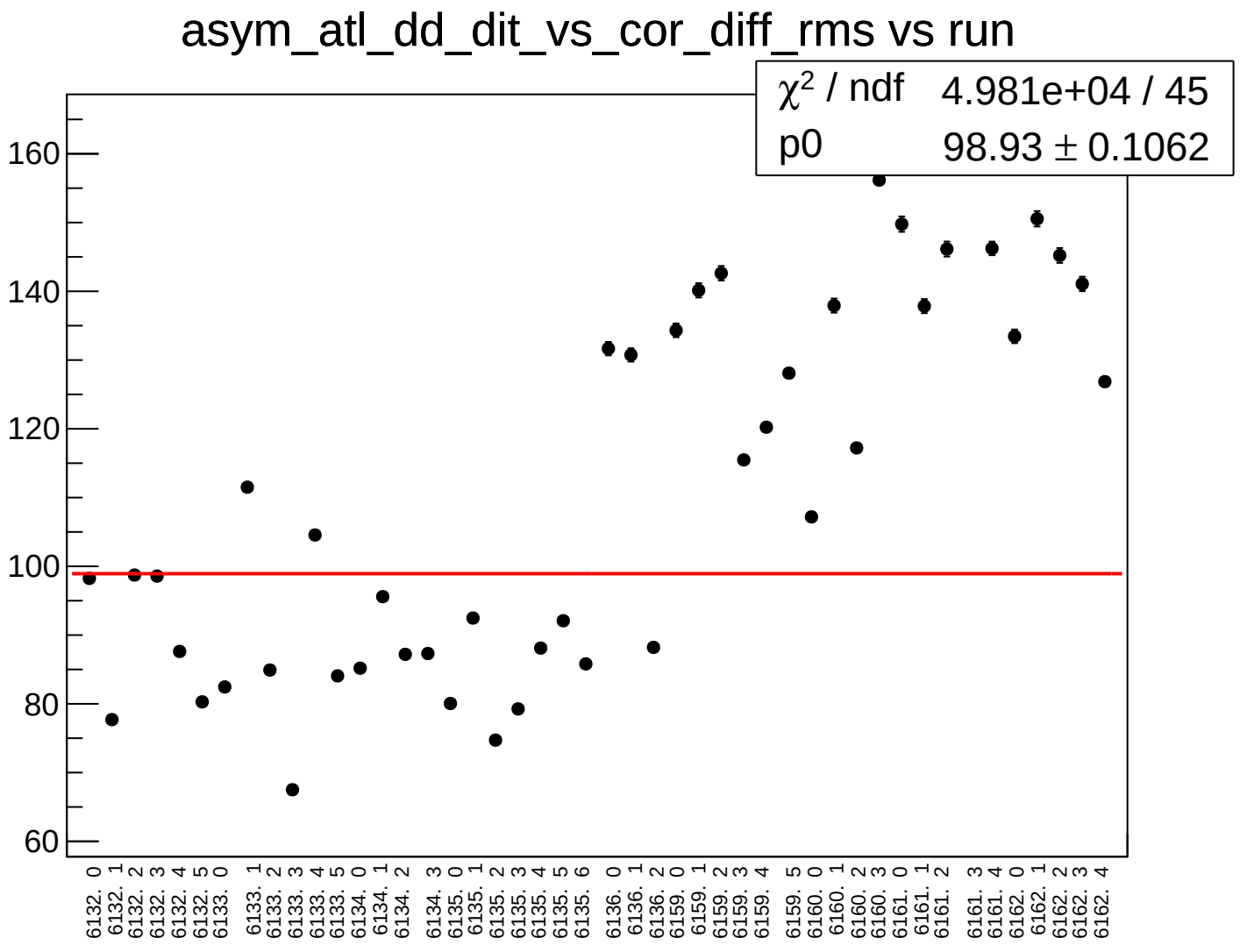
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

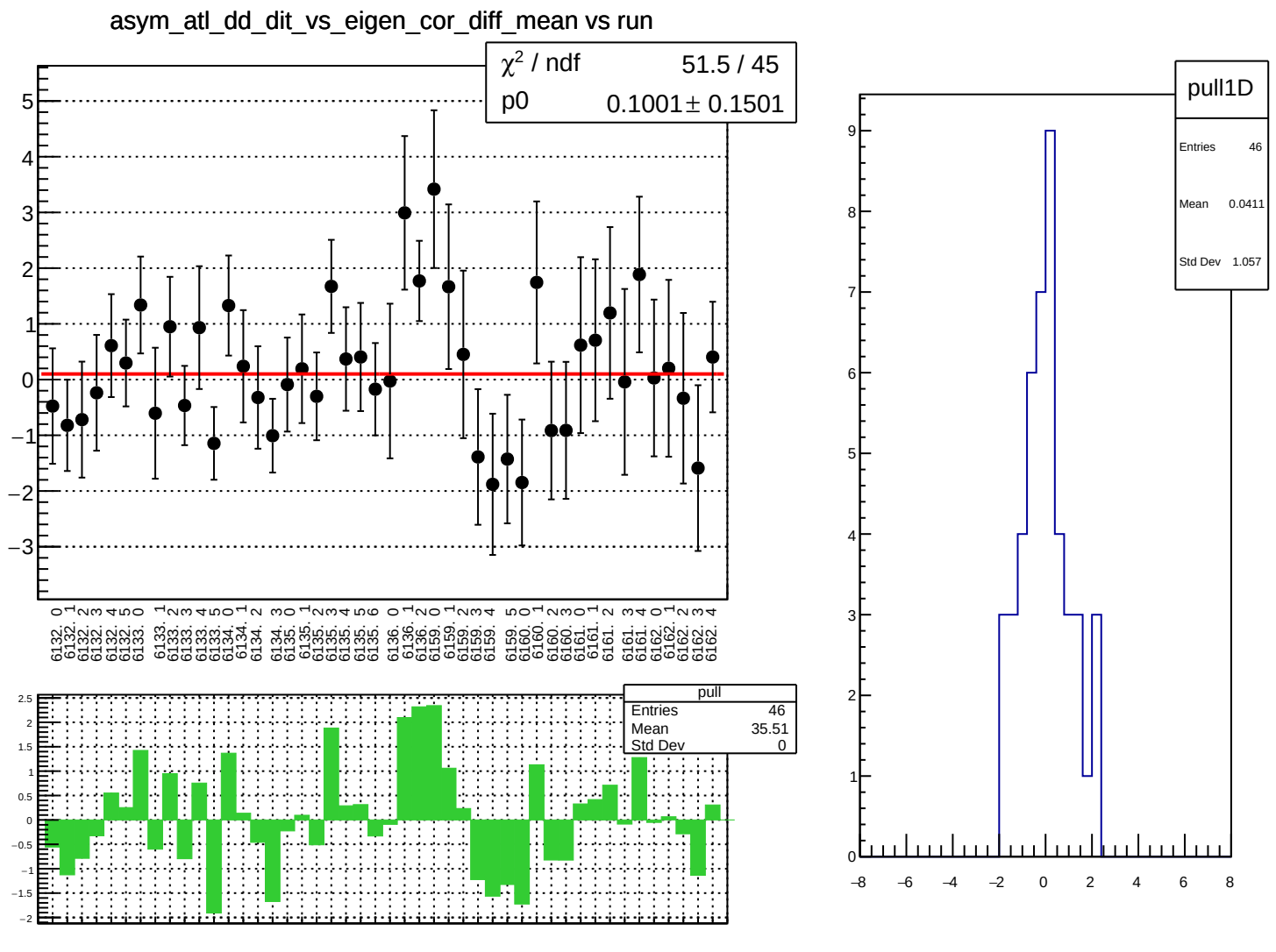

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 44.24 / 45
p0 −2.9e−13 ± 3.521e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 10.24
Std Dev 18.79
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

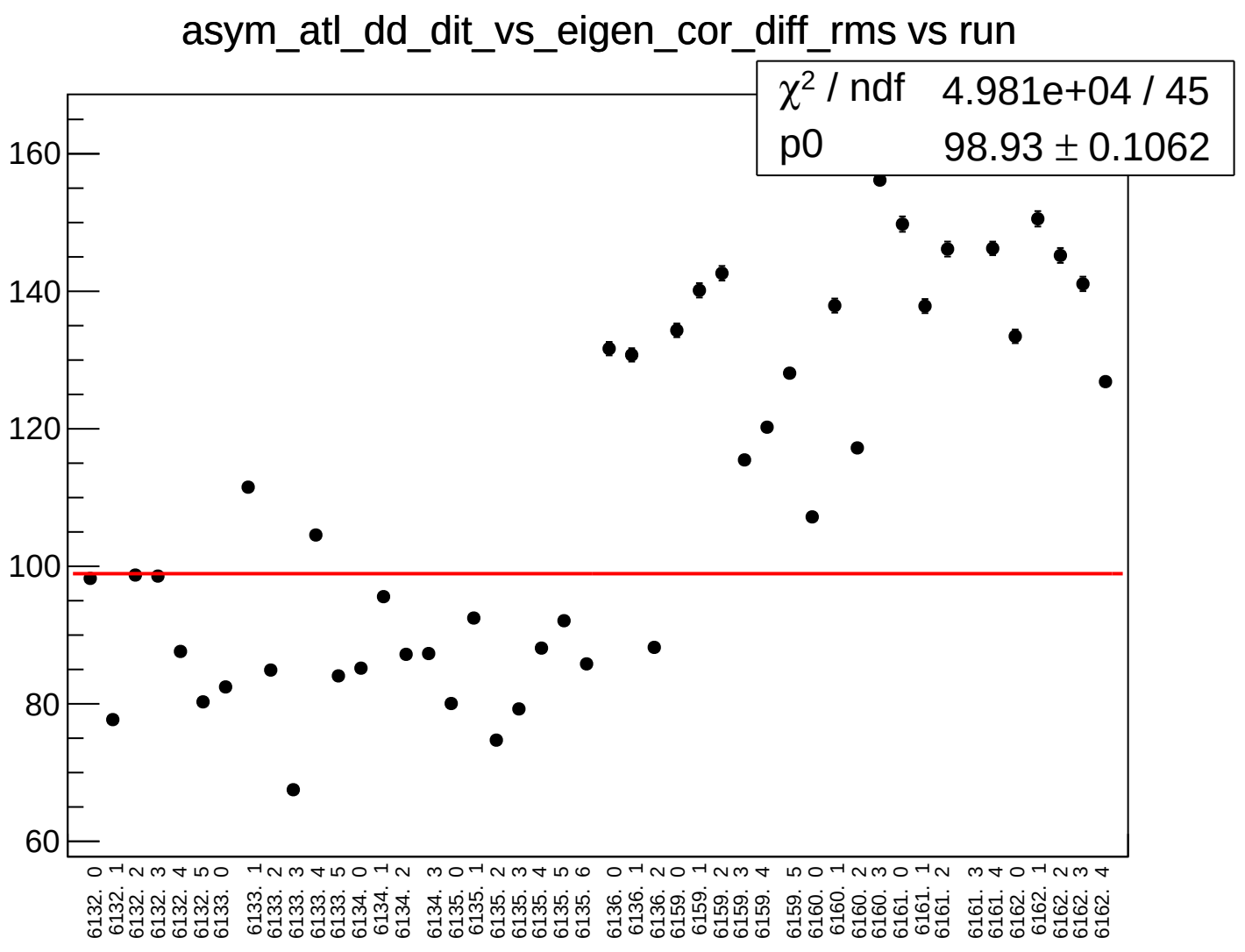

pull1D
Entries 46
Mean −0.07627
Std Dev 0.9778
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

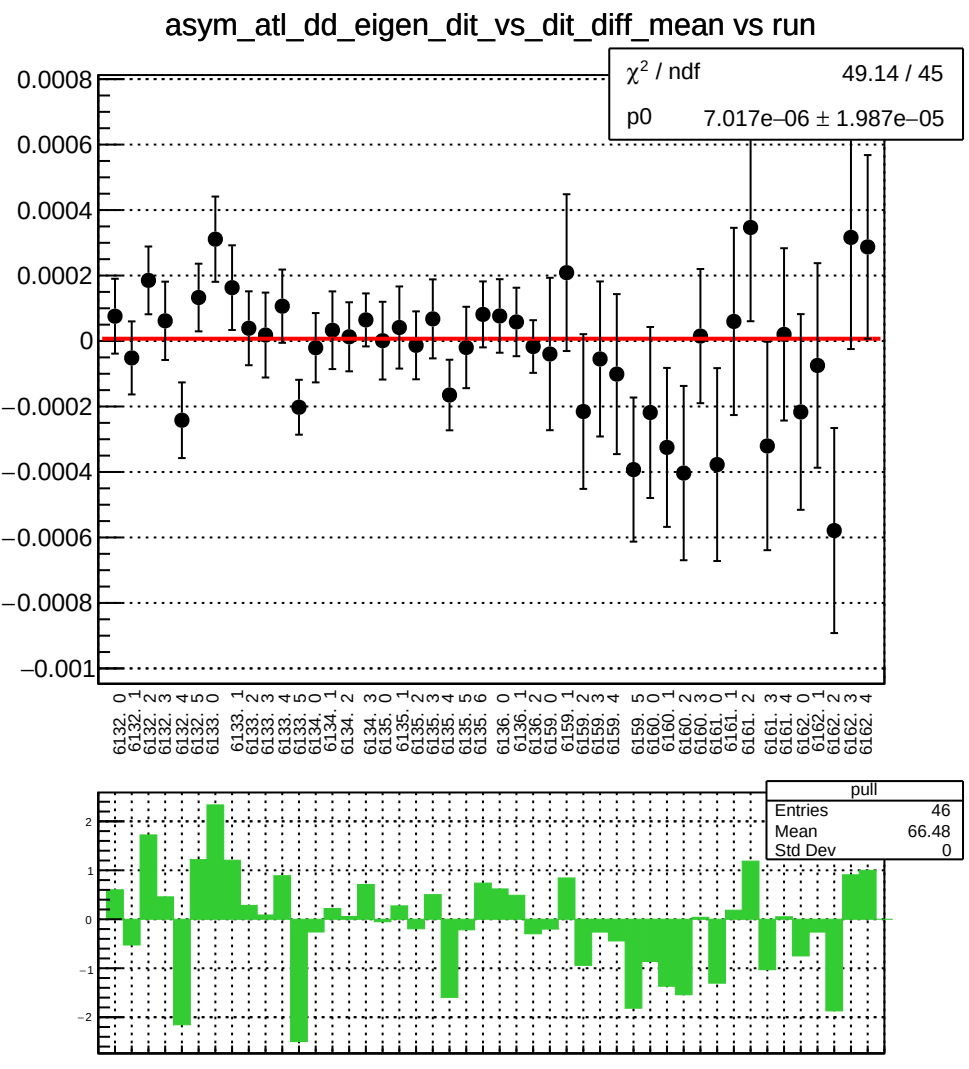

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.224e+05 / 45
p0 1.566e−10 ± 2.489e−13
1.2
1
0.8
0.6
0.4
0.2
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

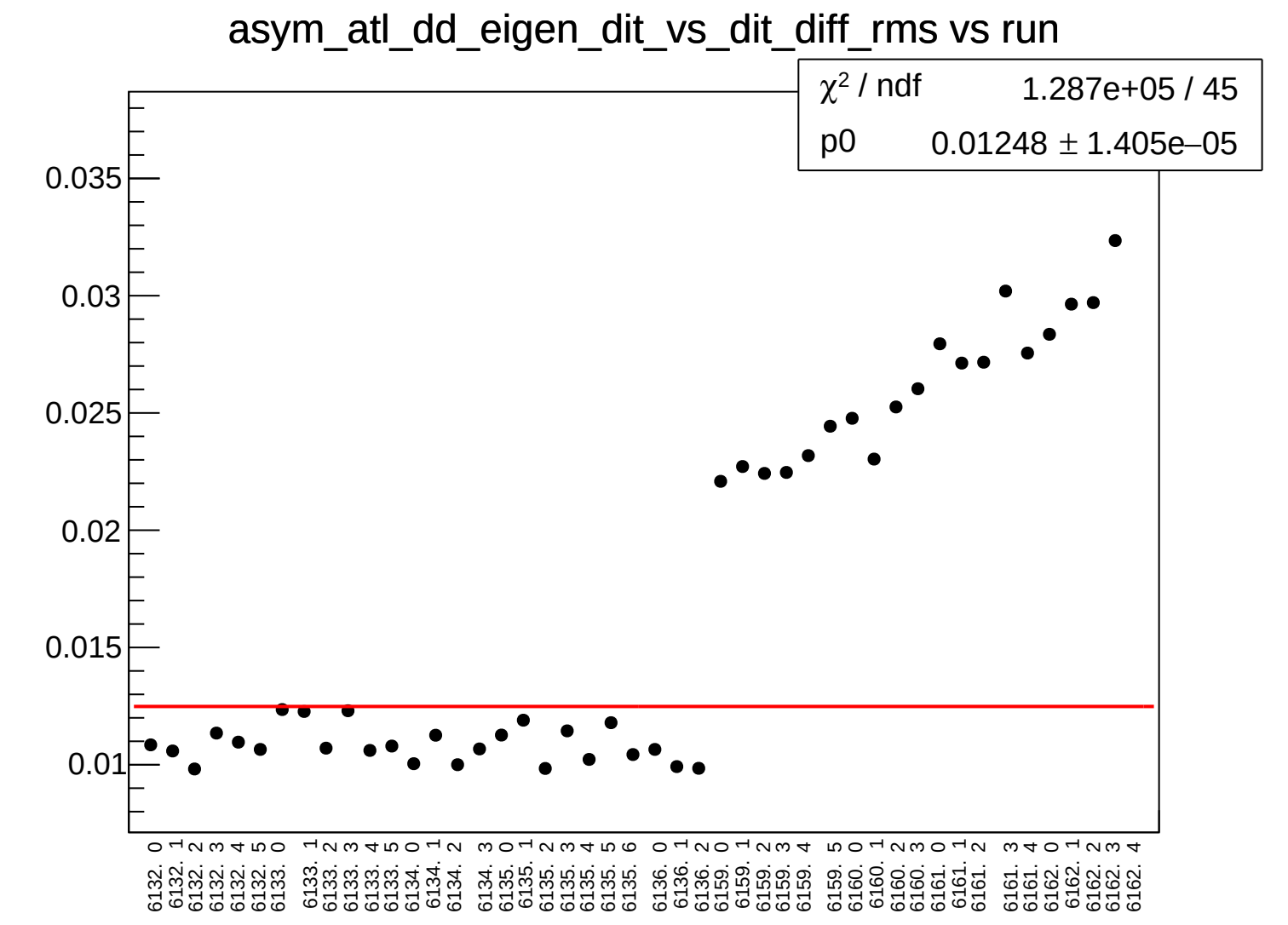

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 51.5 / 45
p0 0.1001± 0.1501
pull
Entries 46
Mean 35.51
Std Dev 0
pull1D
Entries 46
Mean 0.0411
Std Dev 1.057

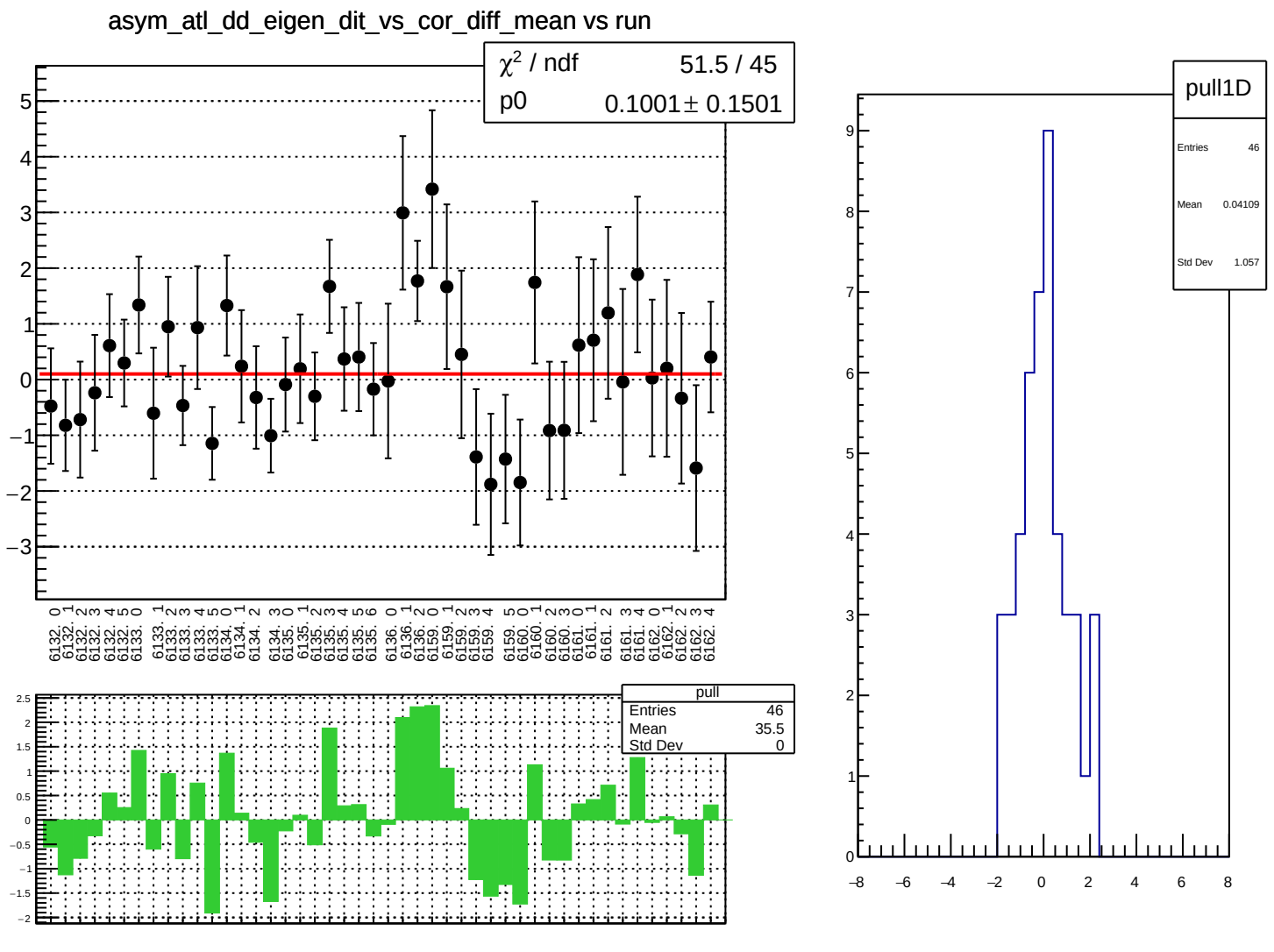

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.981e+04 / 45
p0 98.93 ± 0.1062
160
140
120
100
80
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

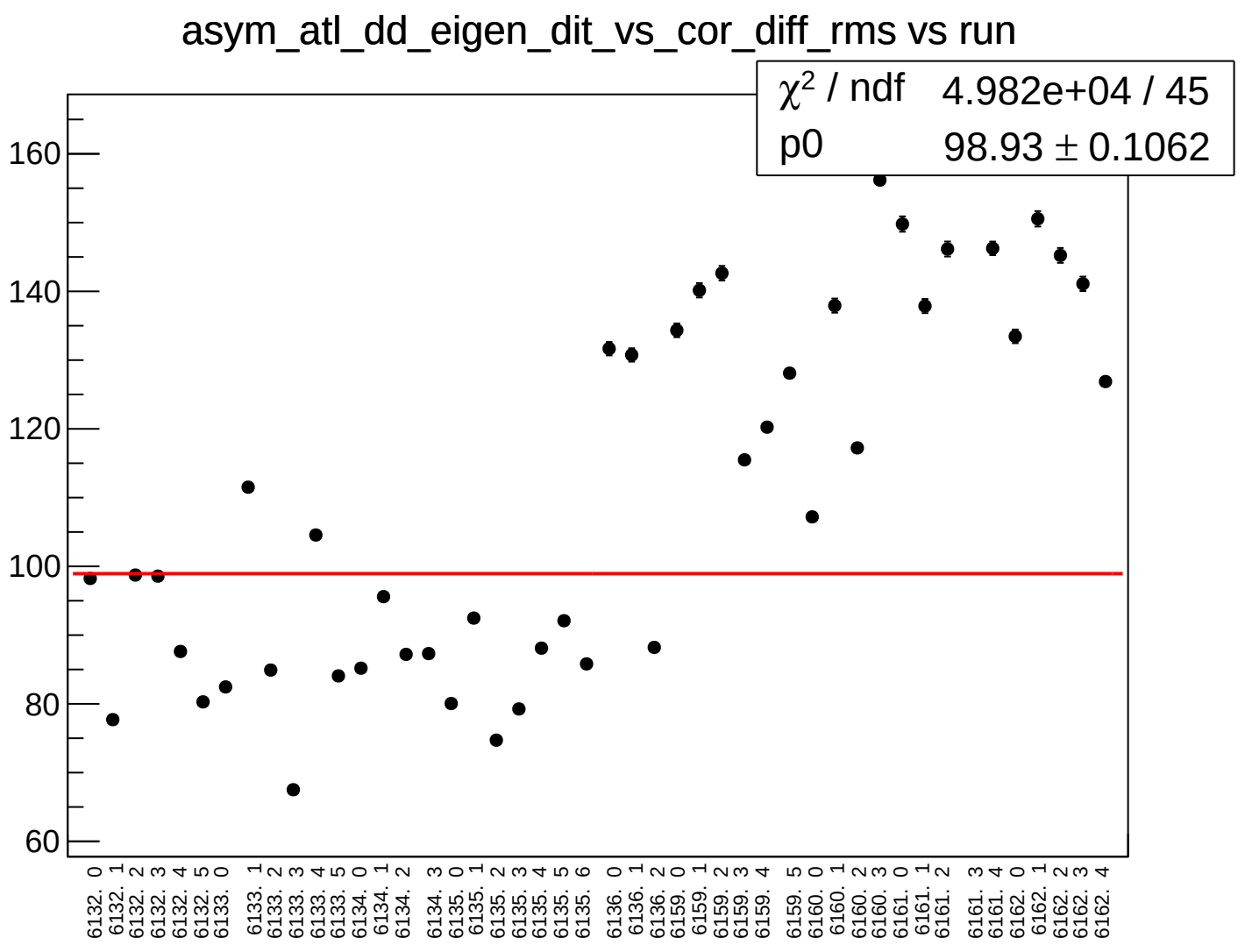

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.5 / 45
p0 0.1001± 0.1501
pull
Entries 46
Mean 35.51
Std Dev 0
pull1D
Entries 46
Mean 0.0411
Std Dev 1.057

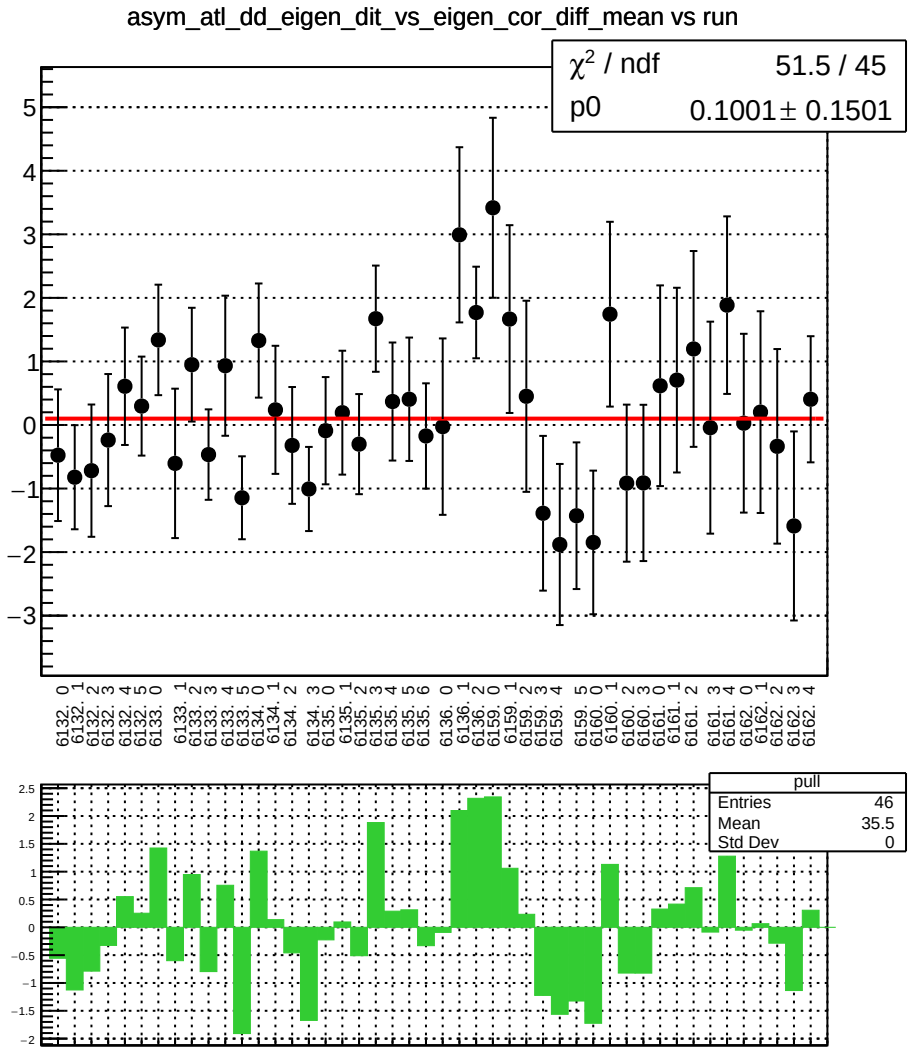

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.981e+04 / 45
p0 98.93 ± 0.1062
160
140
120
100
80
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

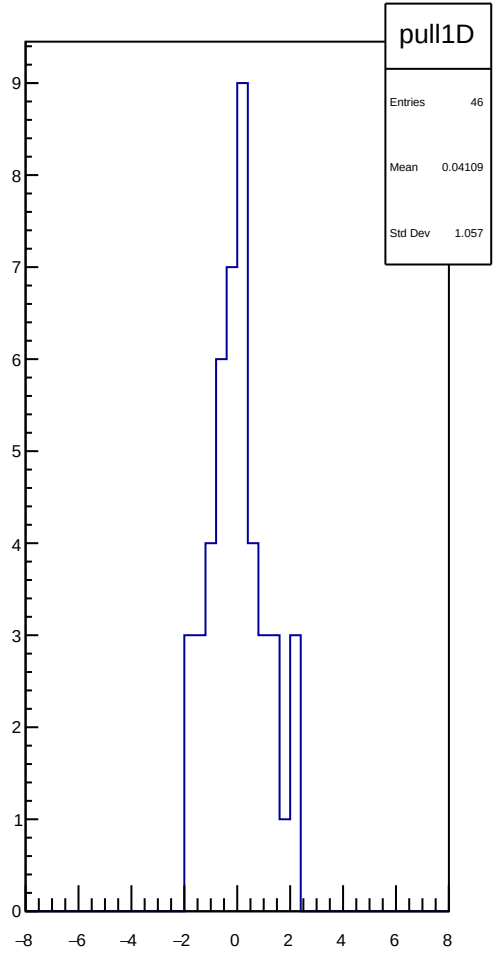

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 49.14 / 45
p0 7.017e−06 ± 1.987e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 66.48
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.08301
Std Dev 1.03
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

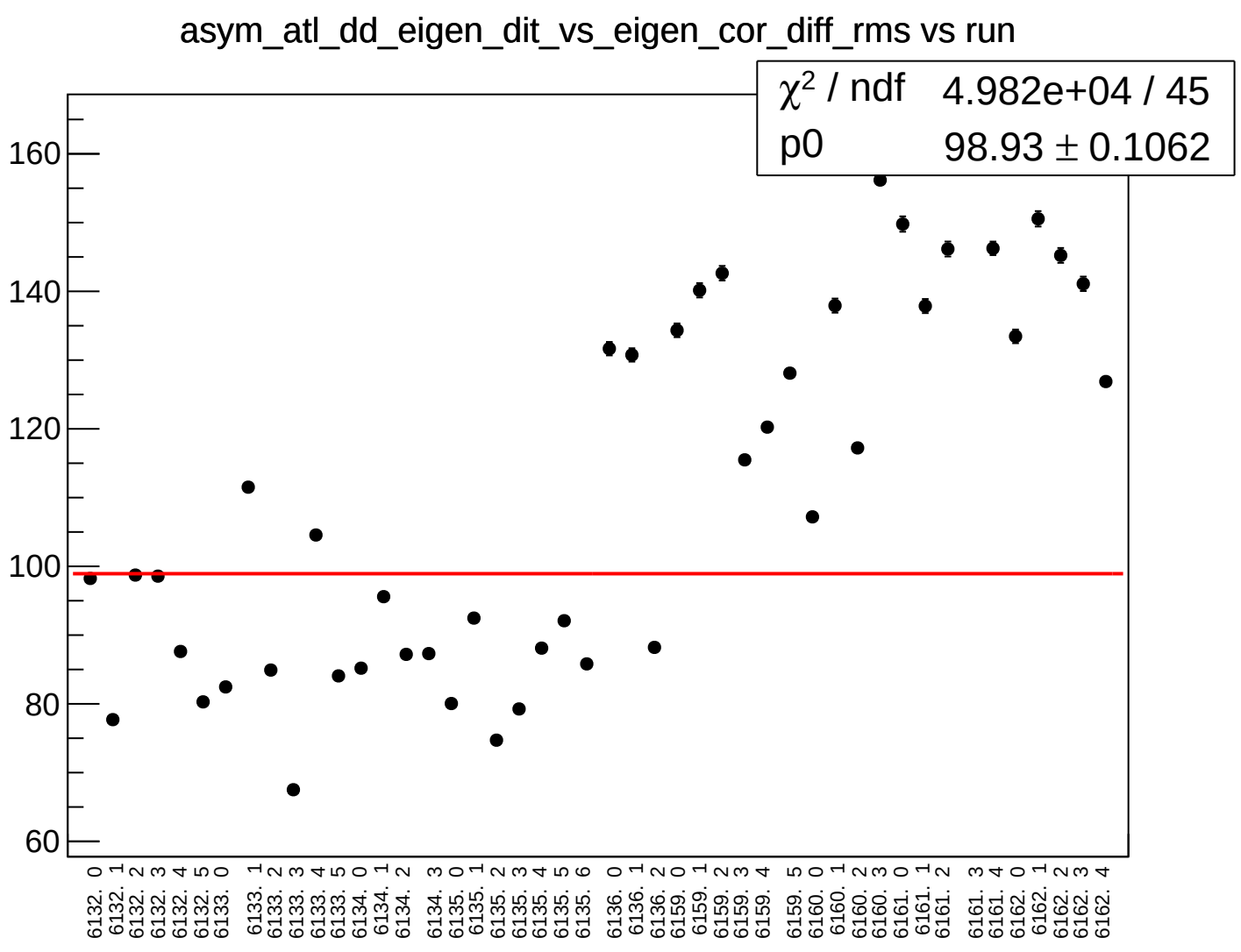

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.287e+05 / 45
p0 0.01248 ± 1.405e−05
0.035
0.03
0.025
0.02
0.015
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

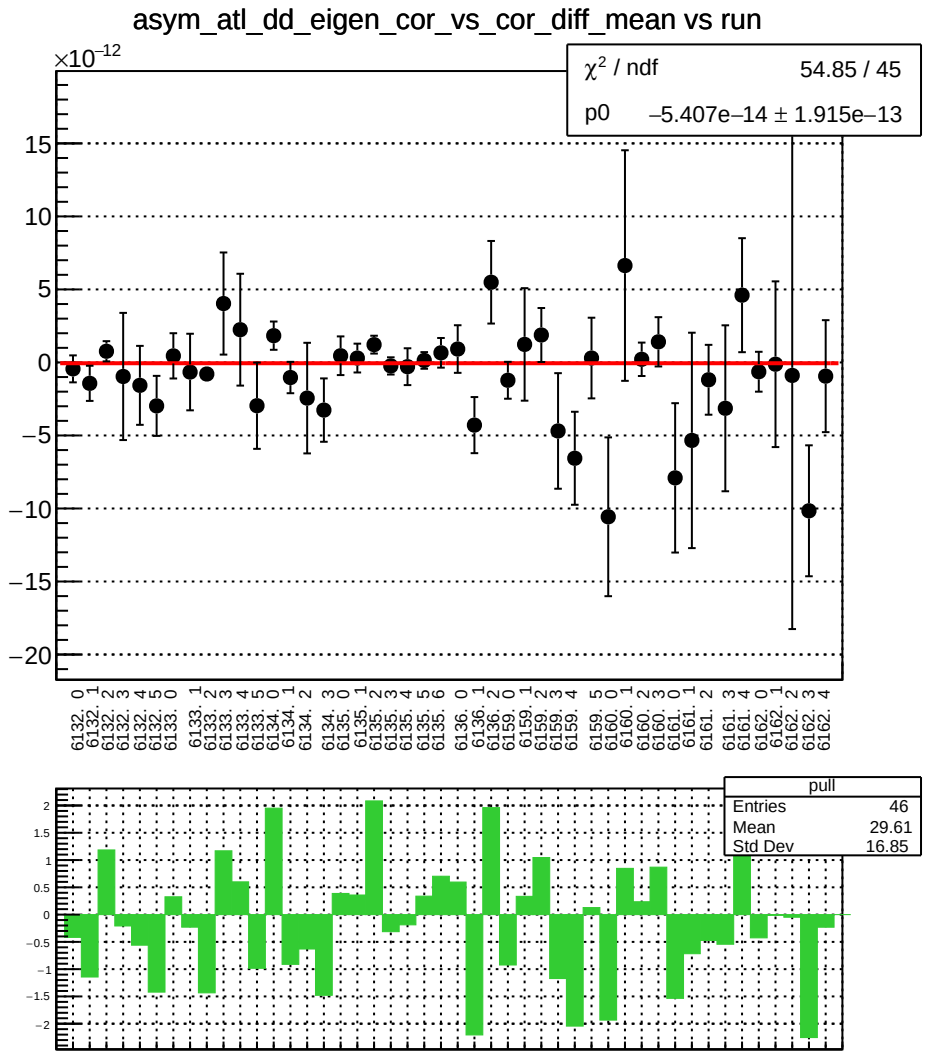

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 51.5 / 45
p0 0.1001 ± 0.1501
pull
Entries 46
Mean 35.5
Std Dev 0
pull1D
Entries 46
Mean 0.04109
Std Dev 1.057

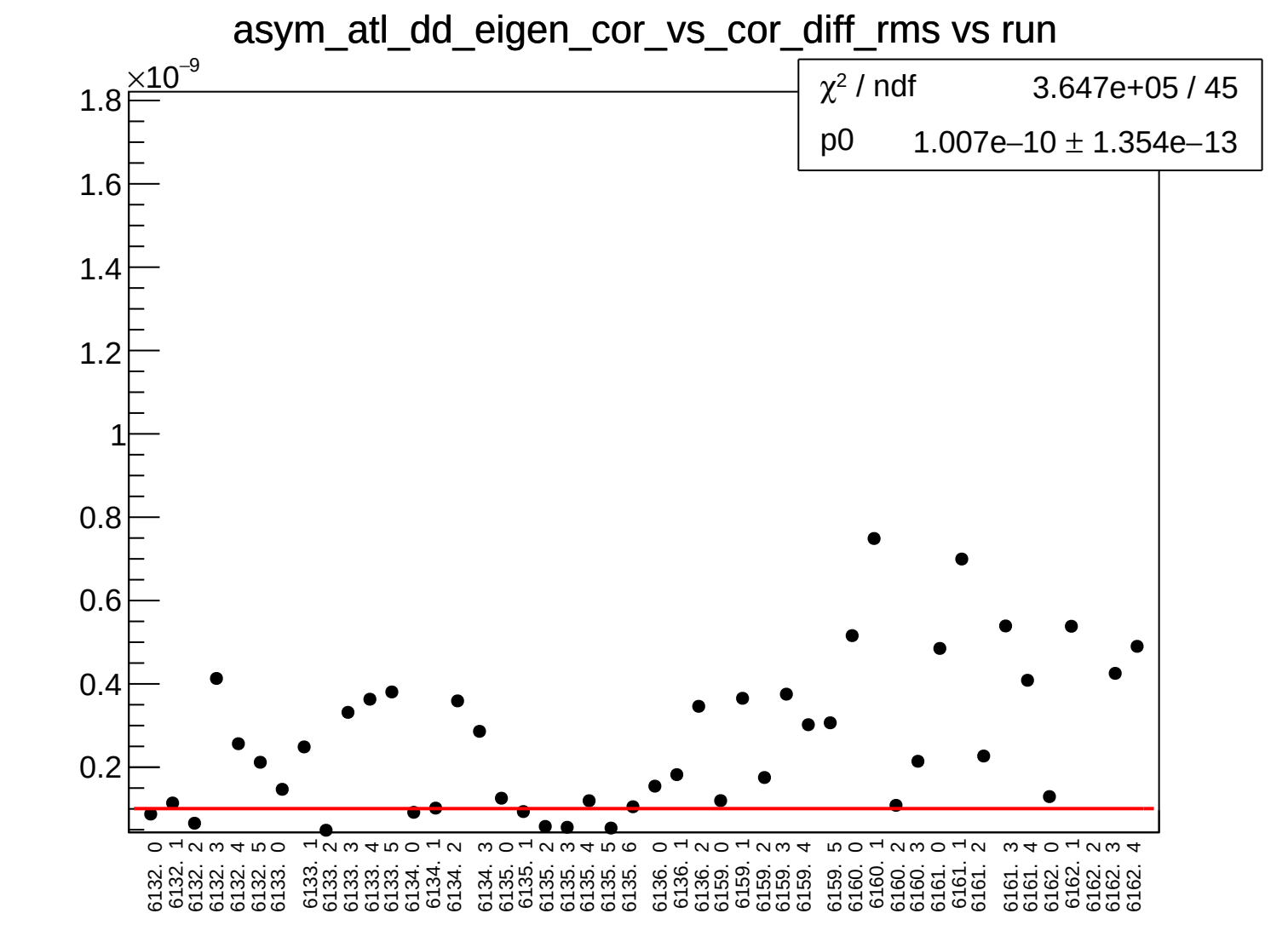

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.982e+04 / 45
p0 98.93 ± 0.1062
160
140
120
100
80
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

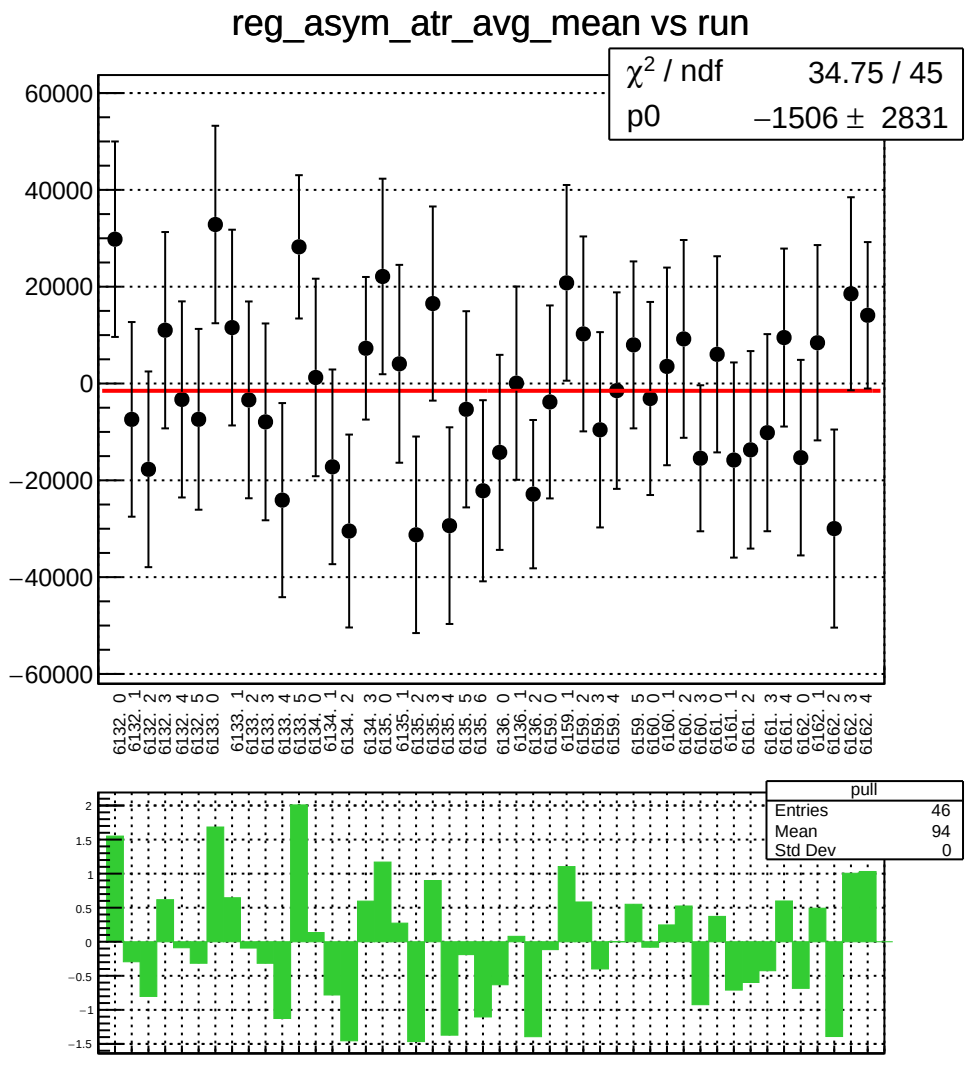

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.5 / 45
p0 0.1001± 0.1501
pull
Entries 46
Mean 35.5
Std Dev 0

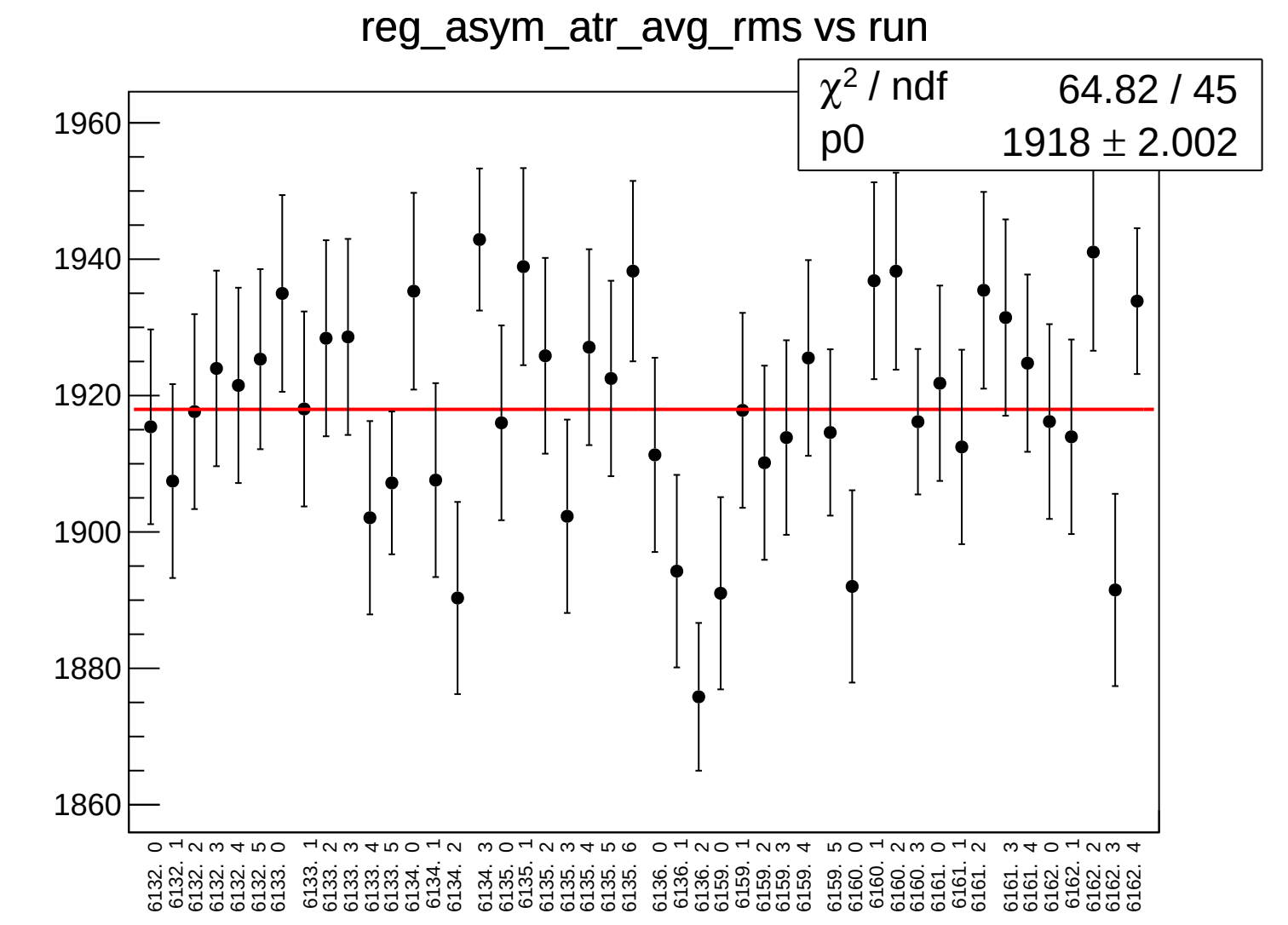

pull1D
Entries 46
Mean 0.04109
Std Dev 1.057

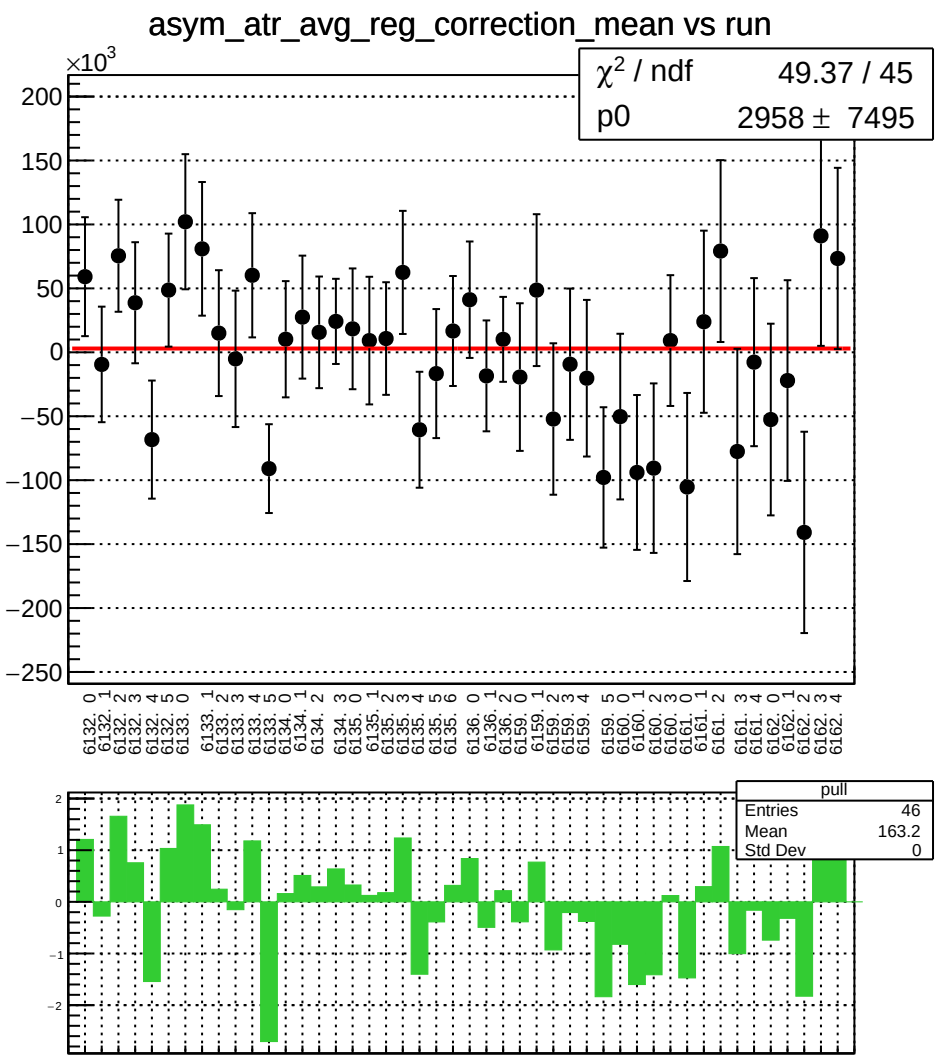

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.982e+04 / 45
p0 98.93 ± 0.1062
160
140
120
100
80
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

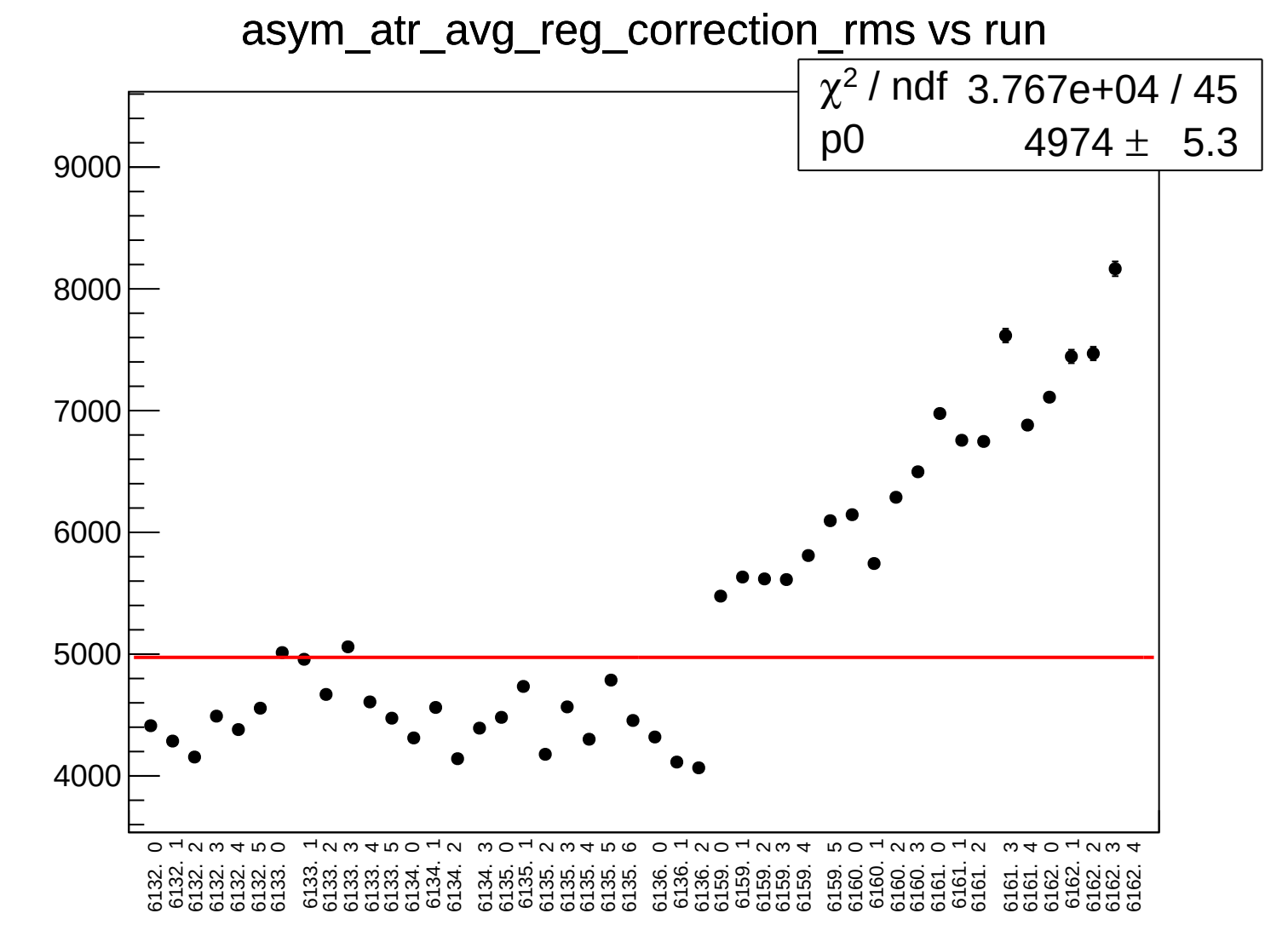

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 54.85 / 45
p0 −5.407e−14 ± 1.915e−13
15
10
5
0
−5
−10
−15
−20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6136. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 29.61
Std Dev 16.85
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.1765
Std Dev 1.078
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

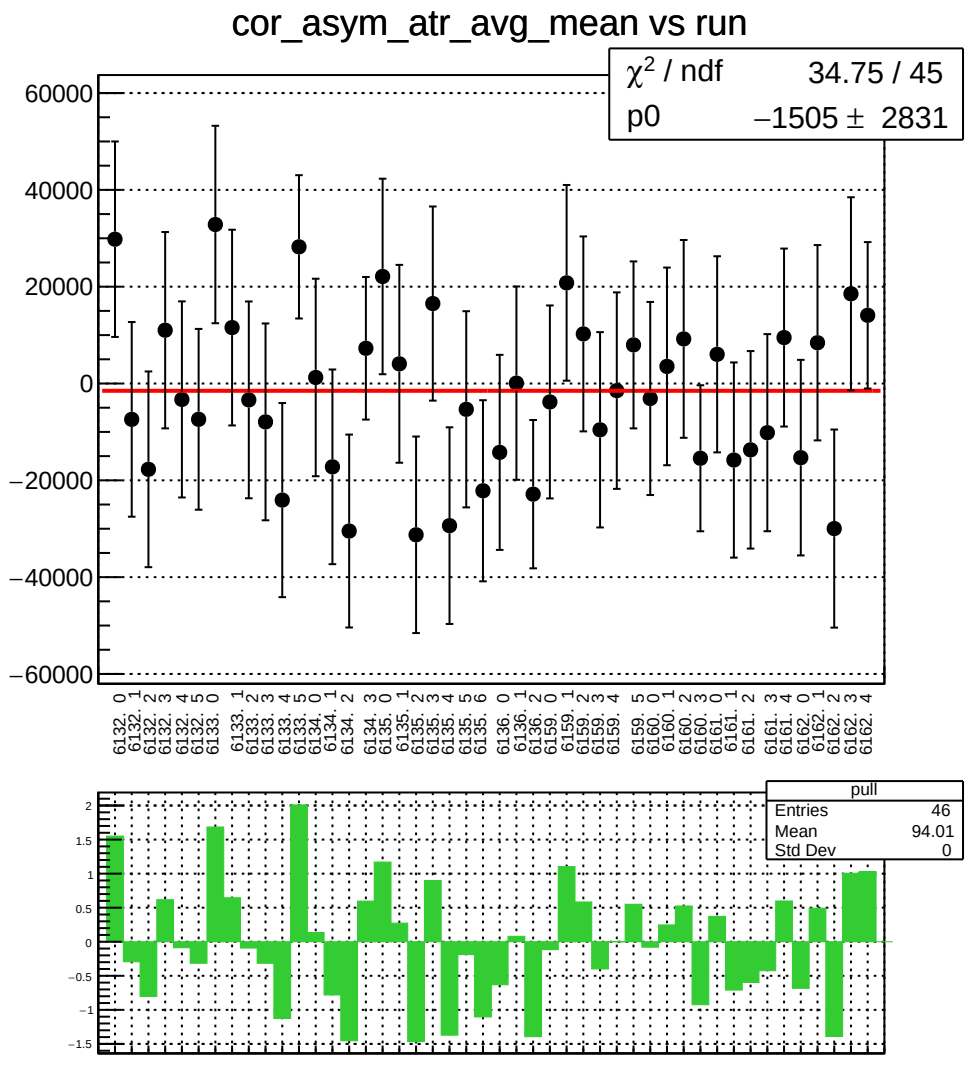

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.647e+05 / 45
p0 1.007e−10 ± 1.354e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

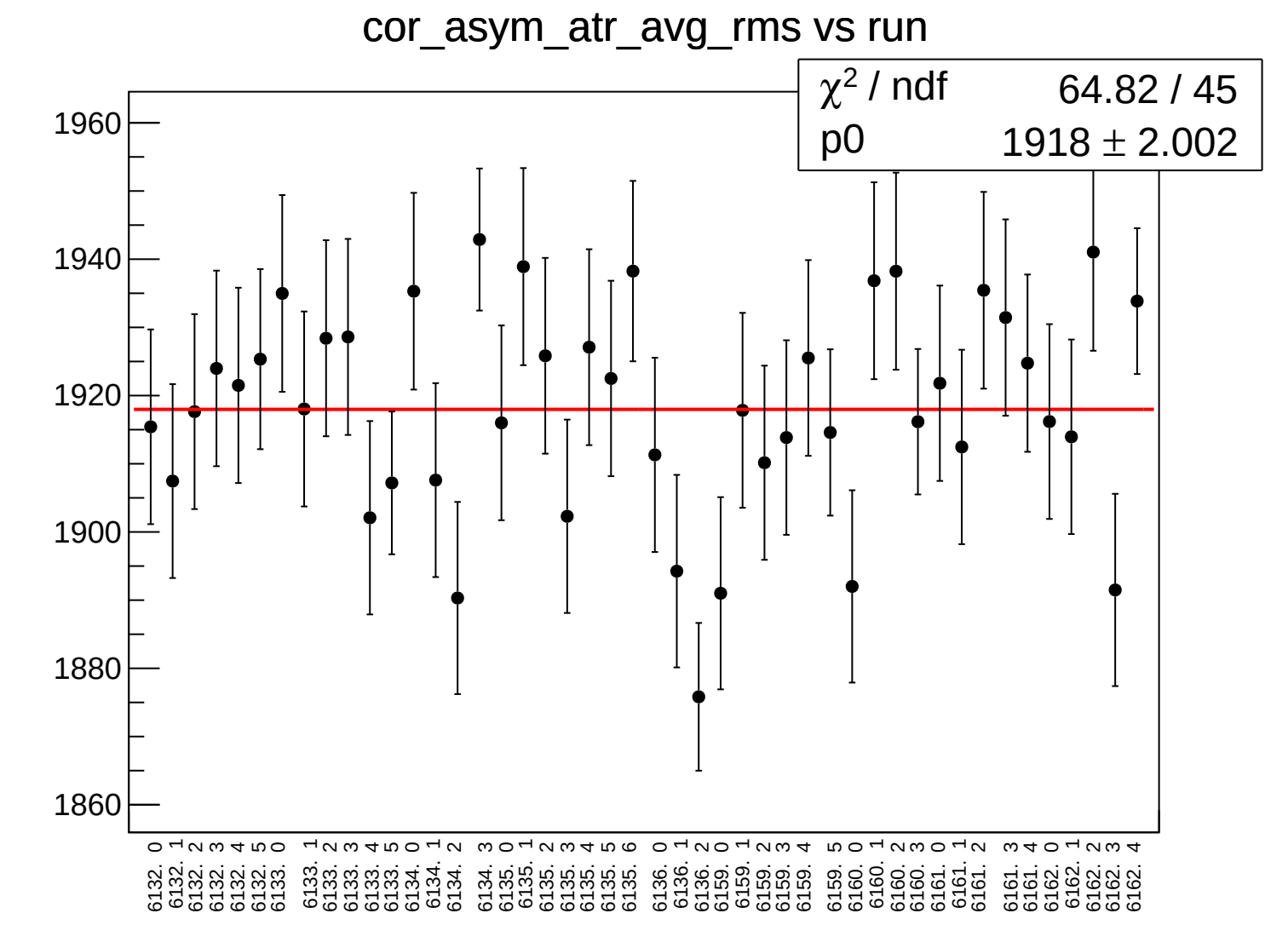

reg_asym_atr_avg_mean vs run
χ^2 / ndf 34.75 / 45
p0 −1506 ± 2831
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.01258
Std Dev 0.8691
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

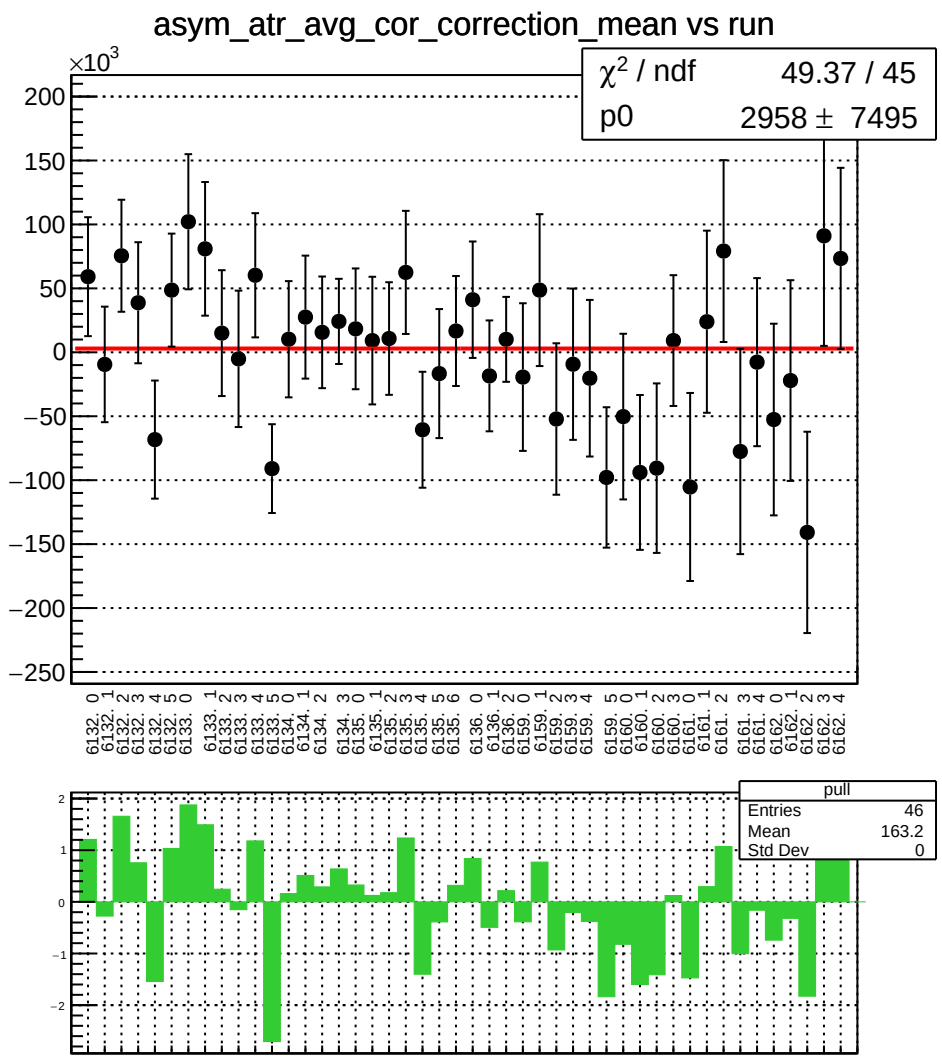

reg_asym_atr_avg_rms vs run
χ² / ndf 64.82 / 45
p0 1918 ± 2.002
1960
1940
1920
1900
1880
1860
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

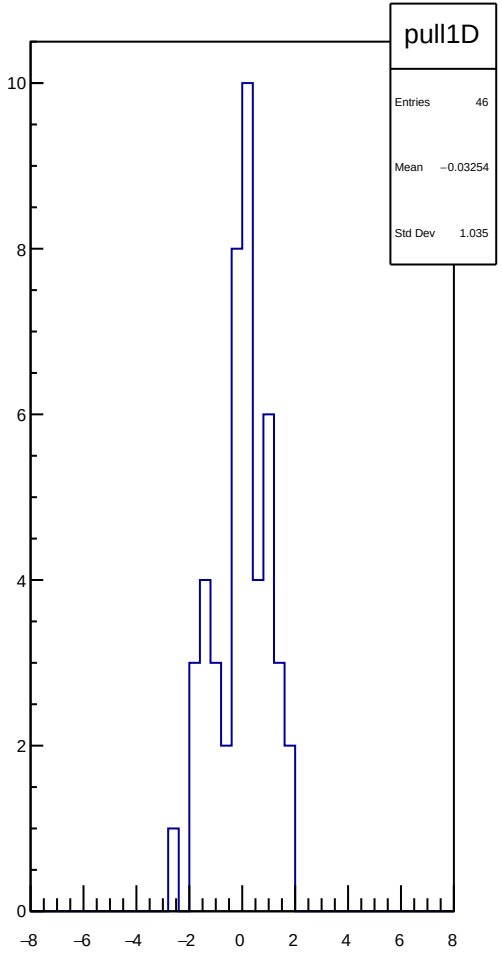

asym_atr_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 49.37 / 45
p0 2958 ± 7495
200
150
100
50
0
−50
−100
−150
−200
−250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 163.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.03254
Std Dev 1.035
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

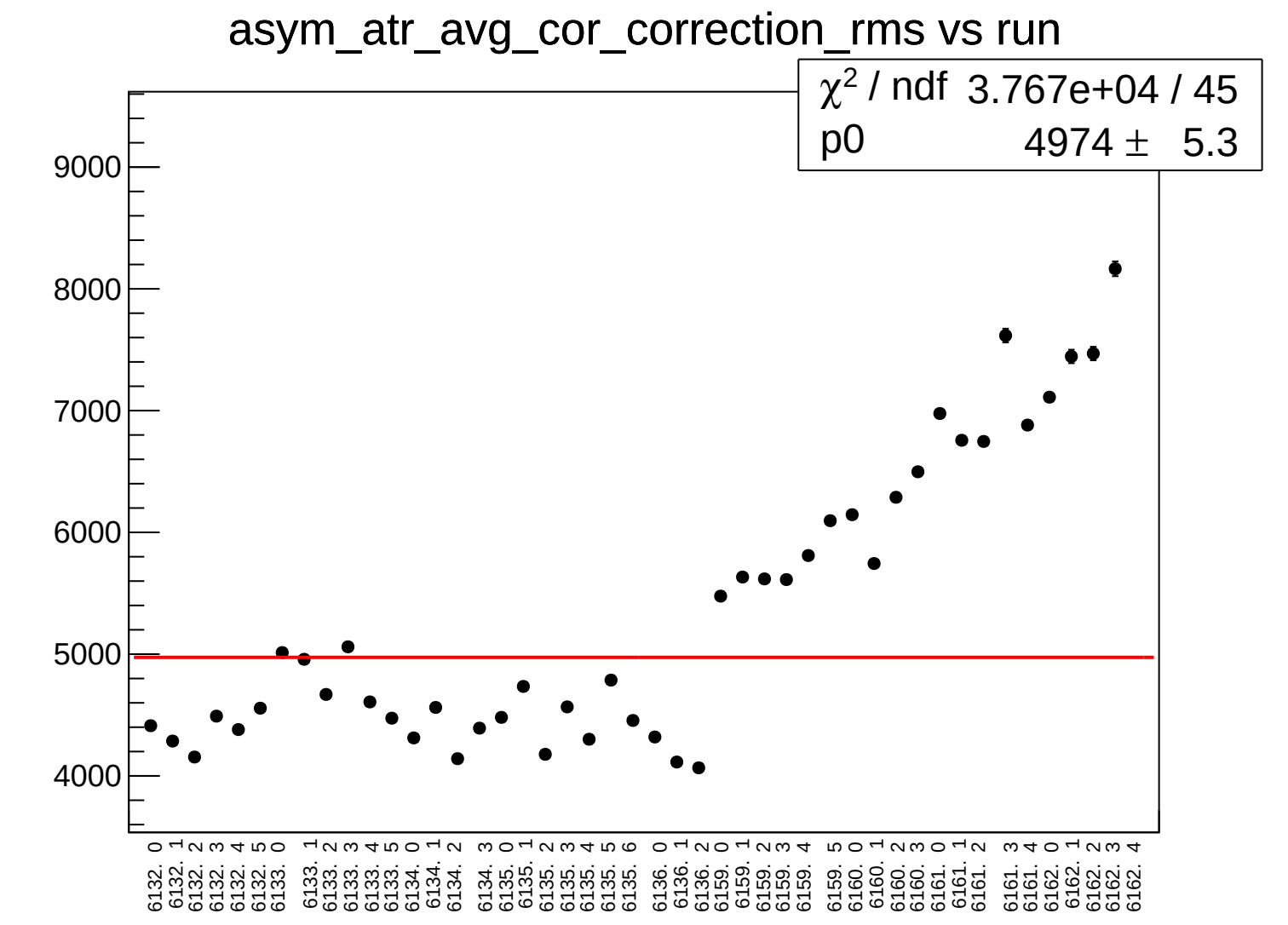

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 3.767e+04 / 45
p0 4974 ± 5.3
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

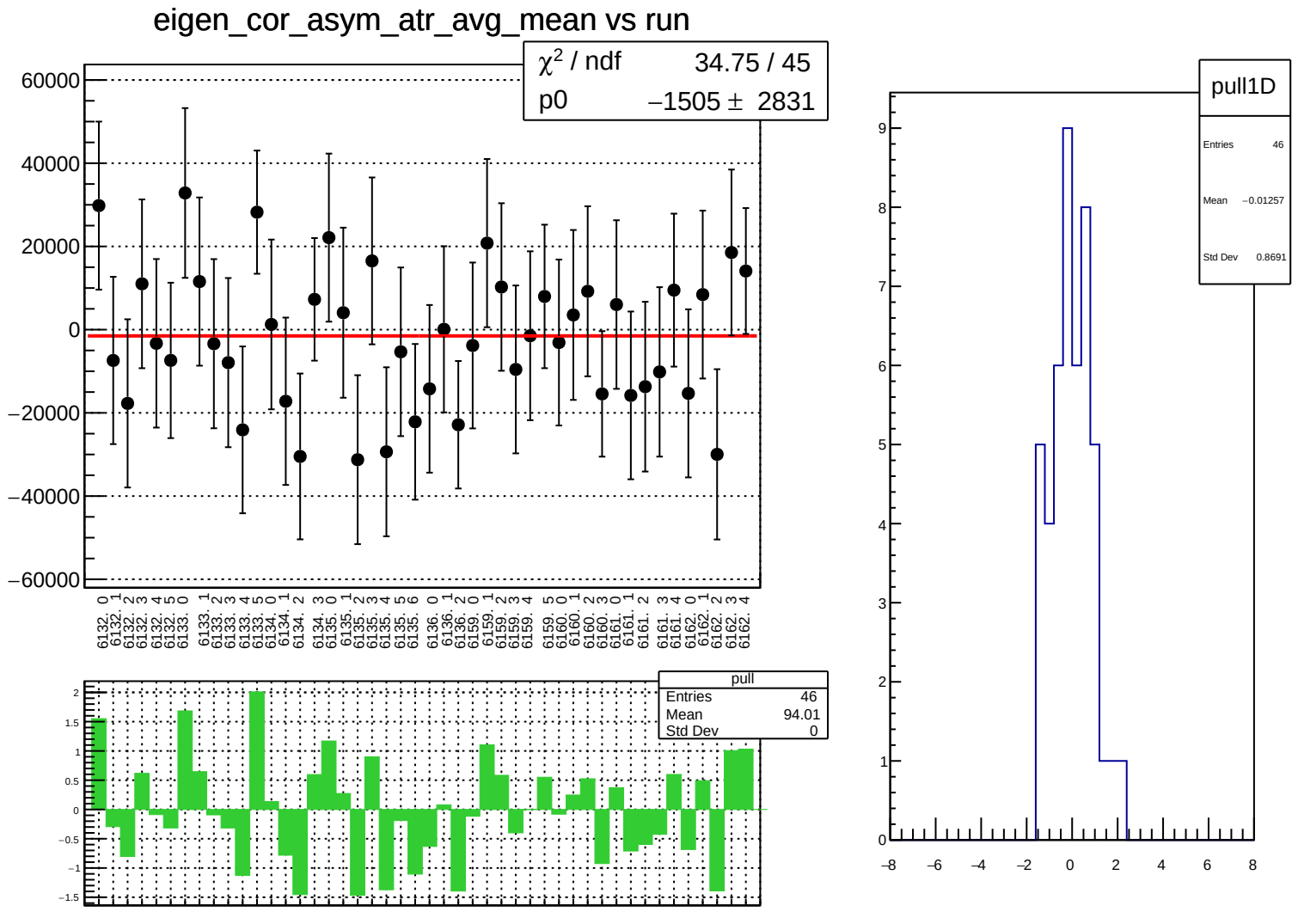

cor_asym_atr_avg_mean vs run
χ² / ndf 34.75 / 45
p0 −1505 ± 2831
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 94.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.01257
Std Dev 0.8691
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

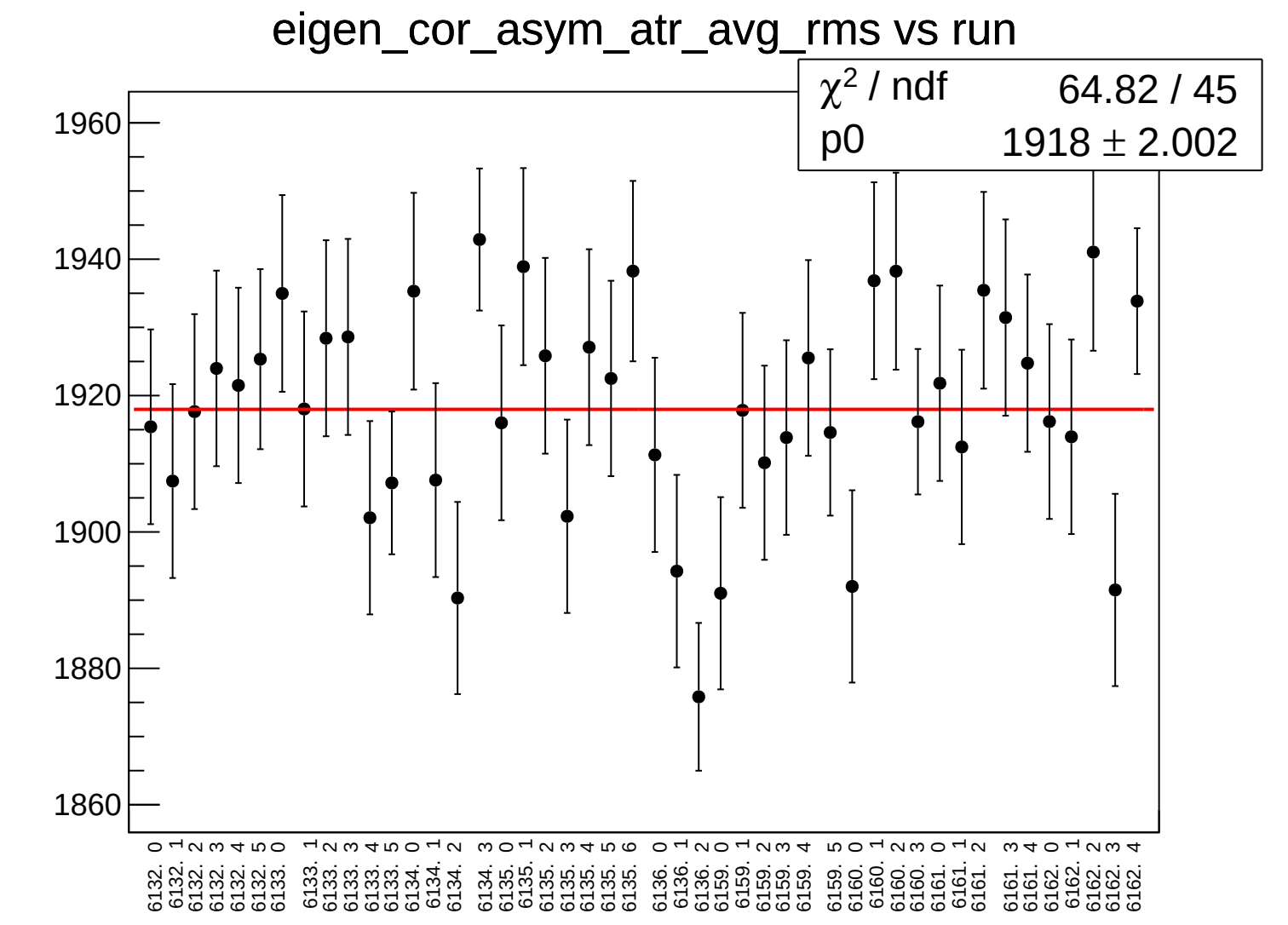

cor_asym_atr_avg_rms vs run
χ² / ndf 64.82 / 45
p0 1918 ± 2.002
1960
1940
1920
1900
1880
1860
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

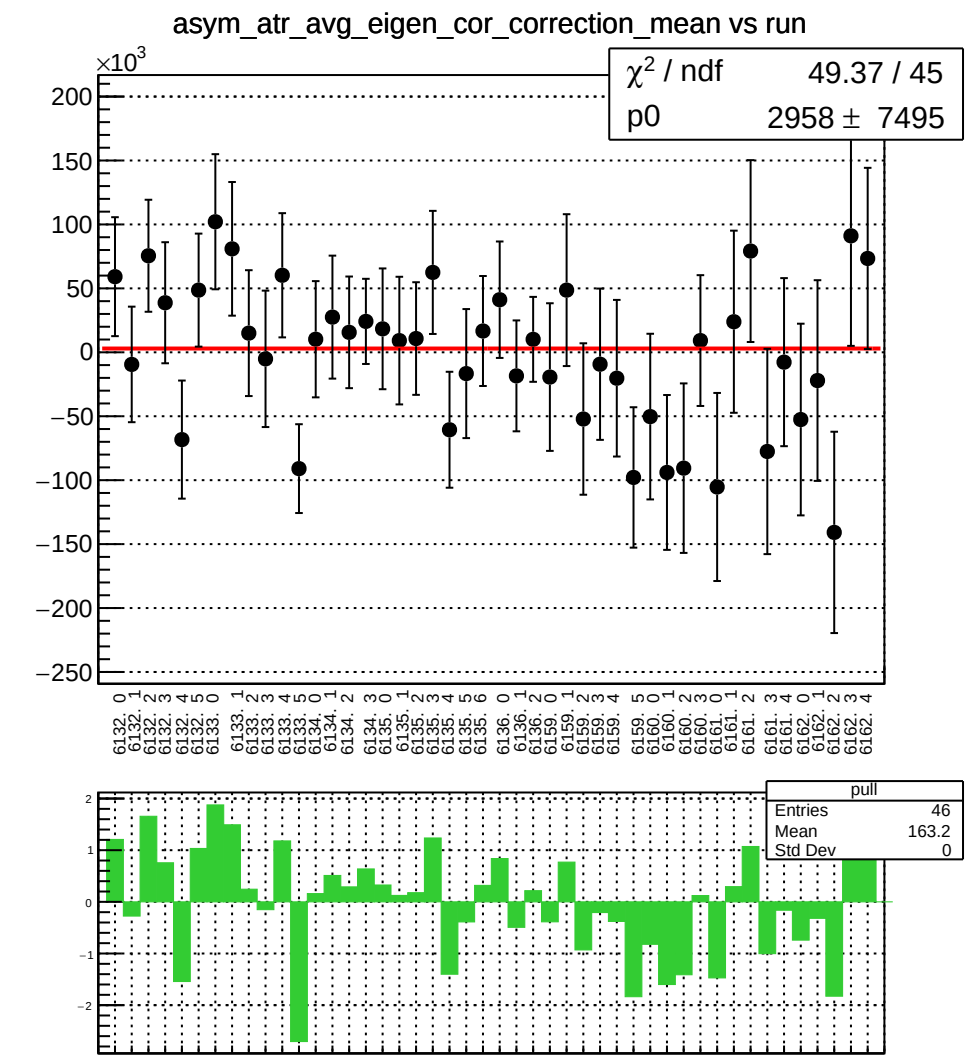

asym_atr_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 49.37 / 45
p0 2958 ± 7495
pull
Entries 46
Mean 163.2
Std Dev 0

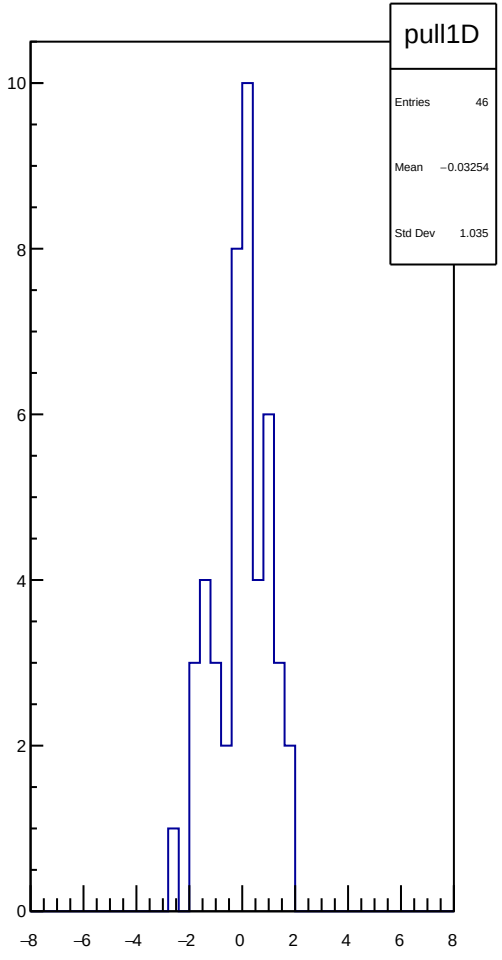

pull1D
Entries 46
Mean −0.03254
Std Dev 1.035

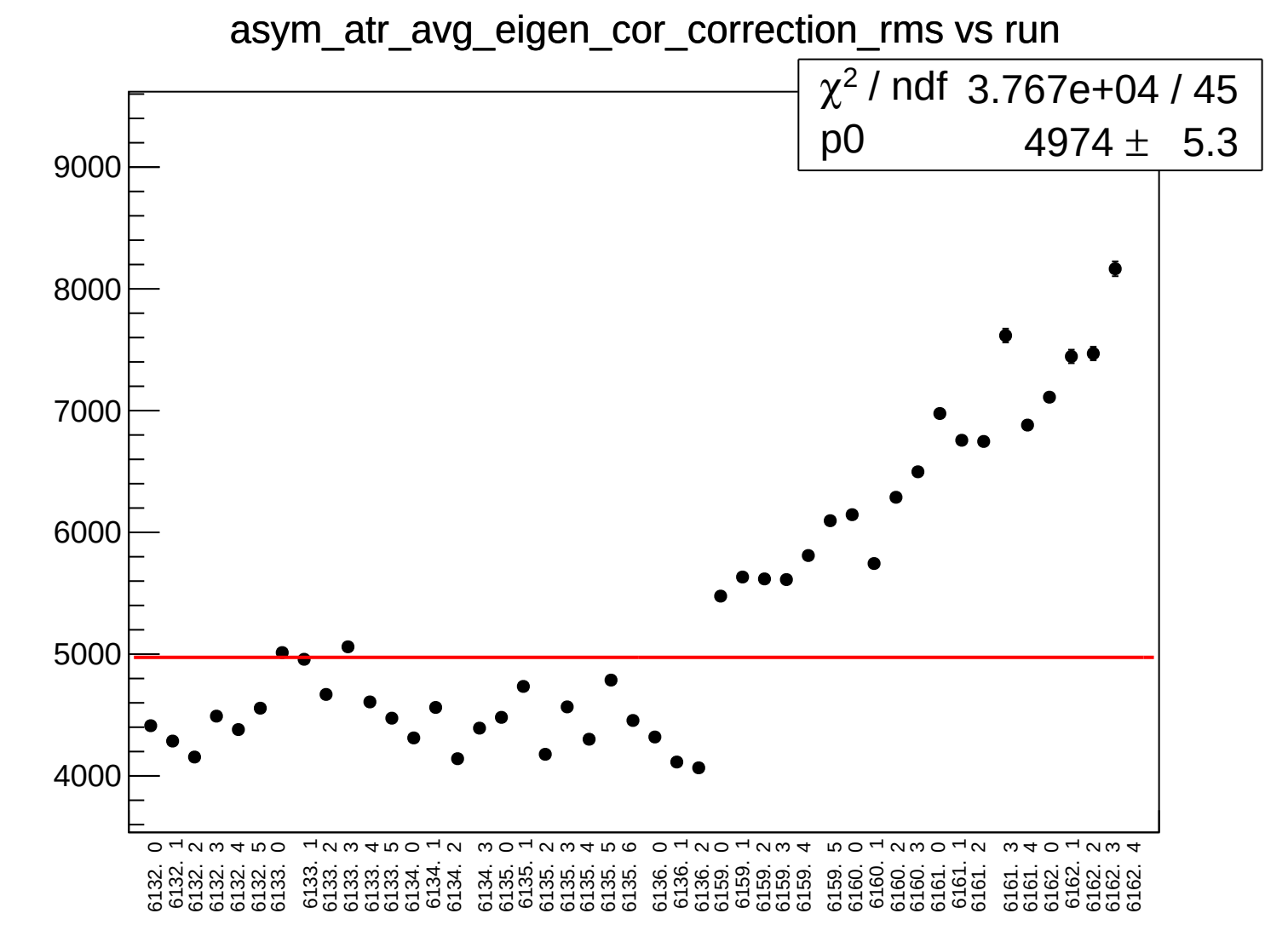

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 3.767e+04 / 45
p0 4974 ± 5.3
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

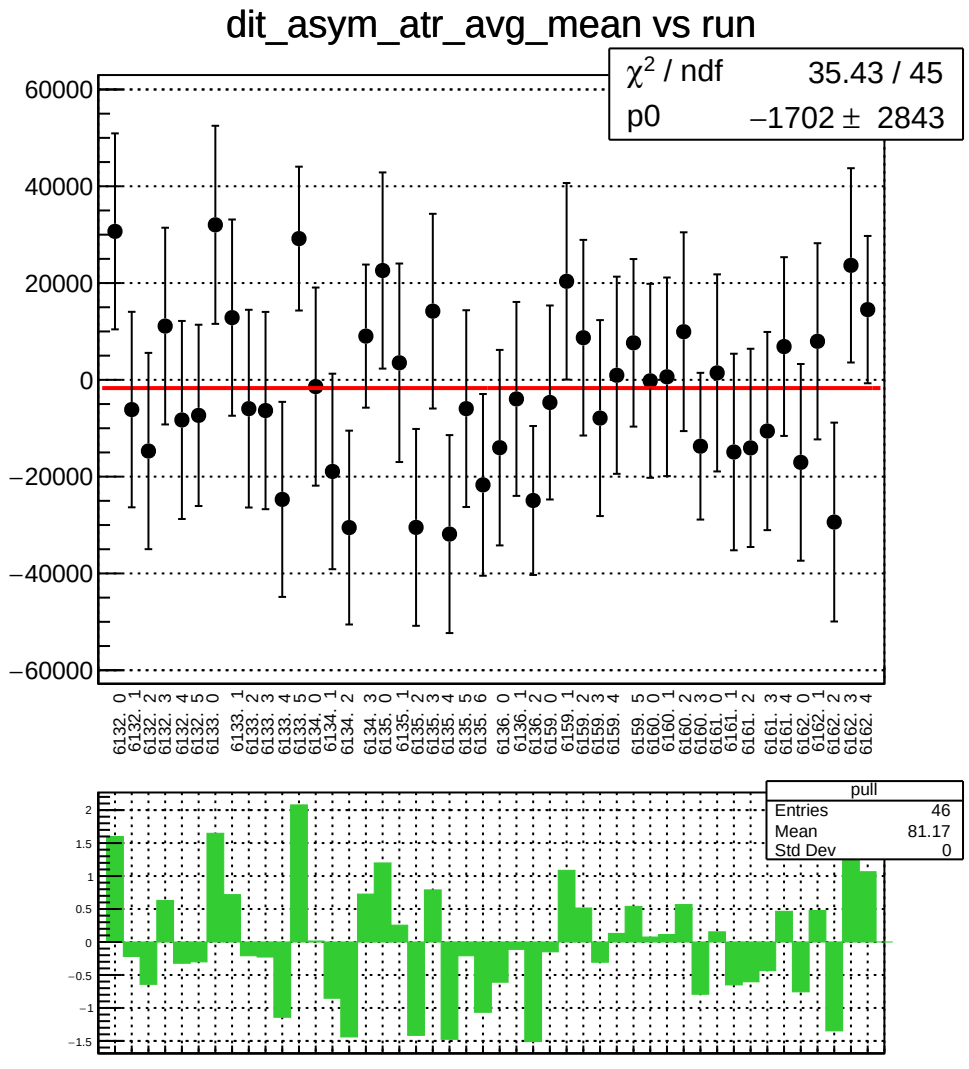

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 34.75 / 45
p0 −1505 ± 2831
pull
Entries 46
Mean 94.01
Std Dev 0
pull1D
Entries 46
Mean −0.01257
Std Dev 0.8691

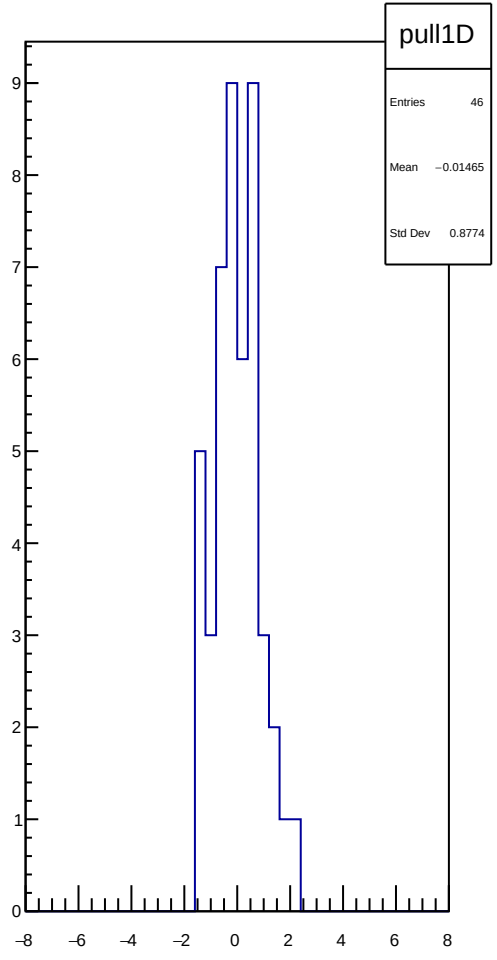

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 64.82 / 45
p0 1918 ± 2.002
1960
1940
1920
1900
1880
1860
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

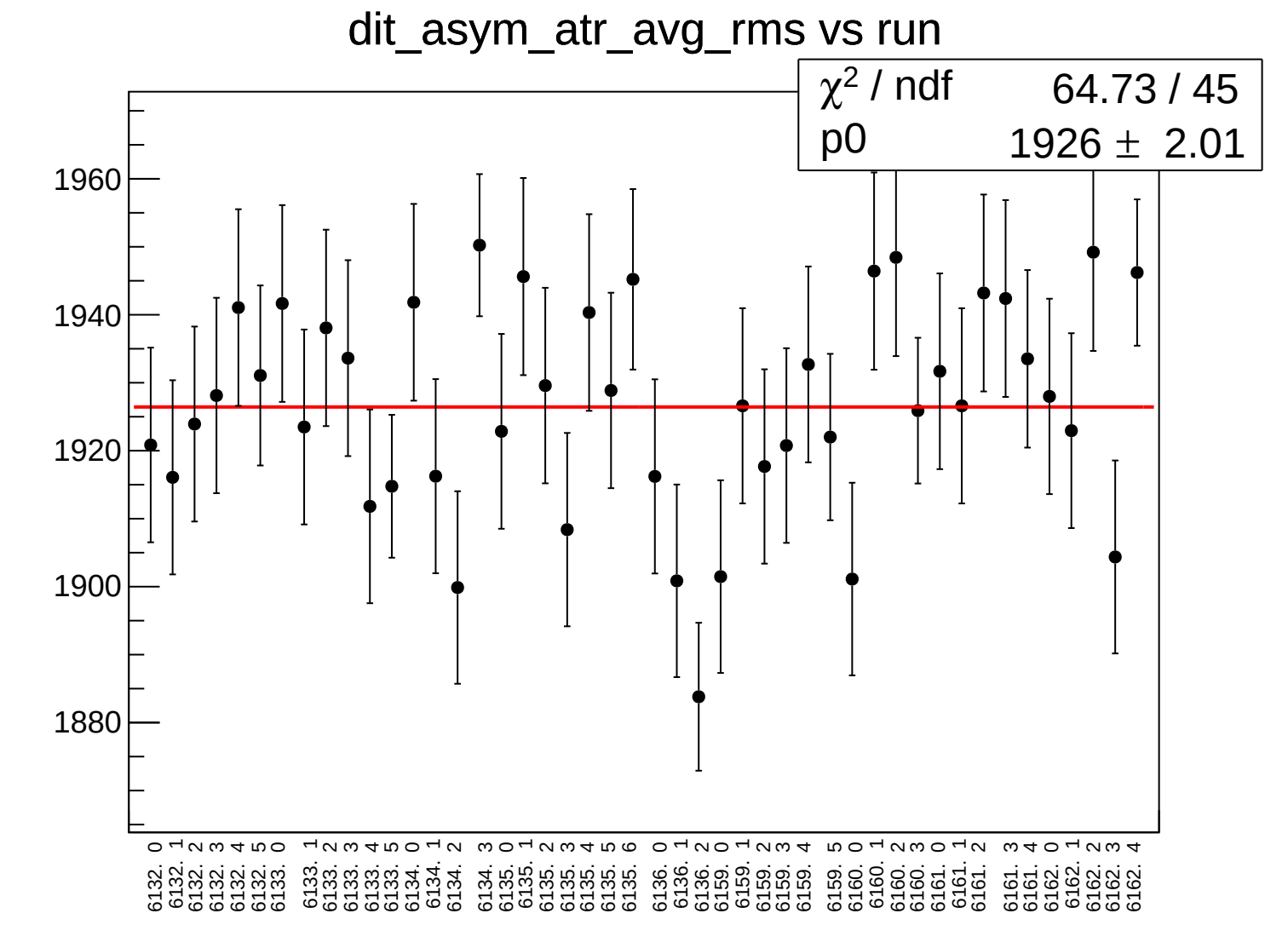

asym_atr_avg_eigen_cor_correction_mean vs run
χ² / ndf 49.37 / 45
p0 2958 ± 7495
×10³
pull
Entries 46
Mean 163.2
Std Dev 0

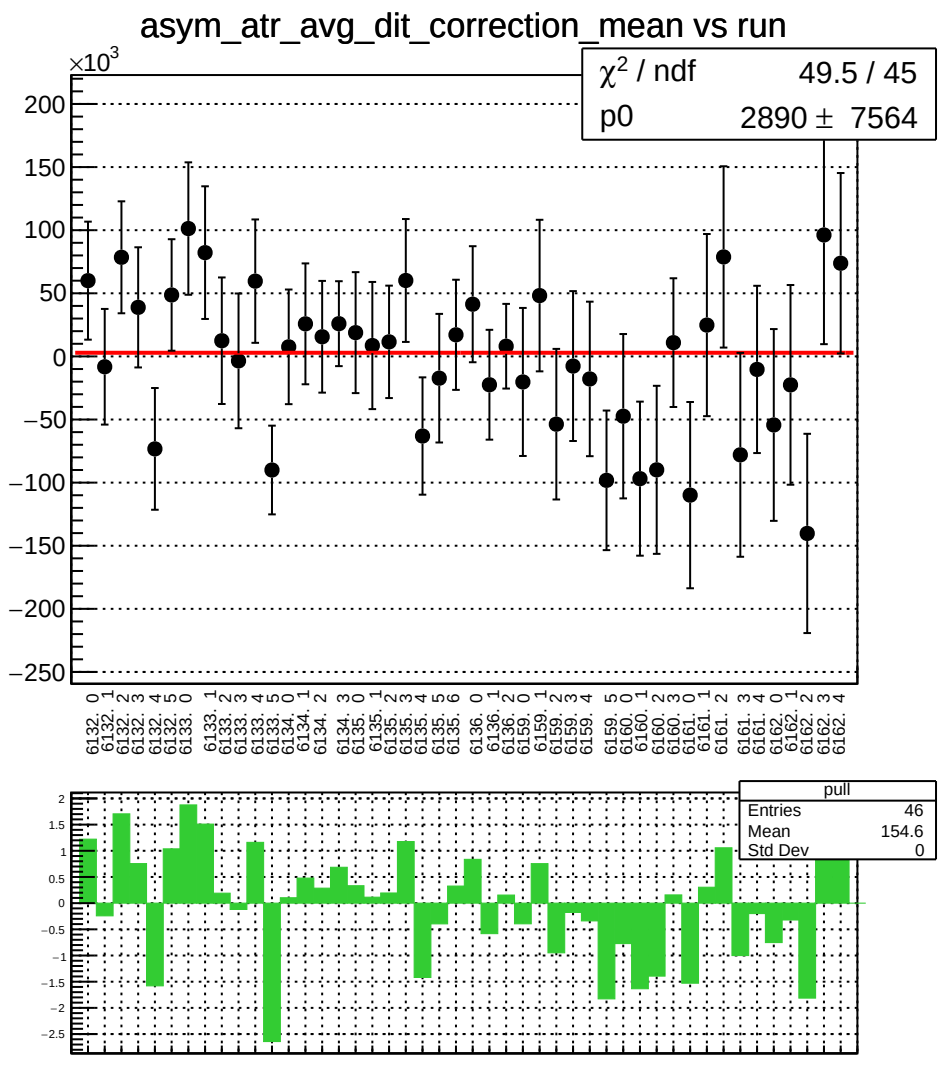

pull1D
Entries 46
Mean −0.03254
Std Dev 1.035

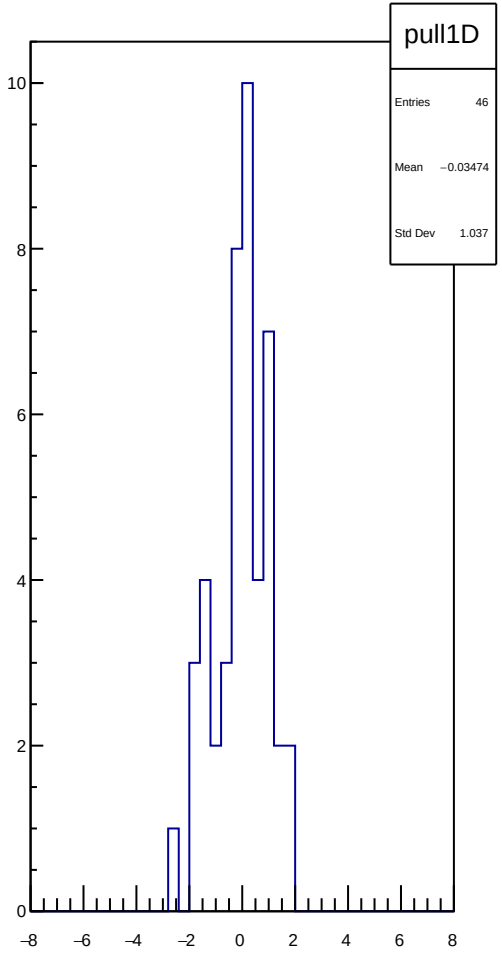

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.767e+04 / 45
p0 4974 ± 5.3
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

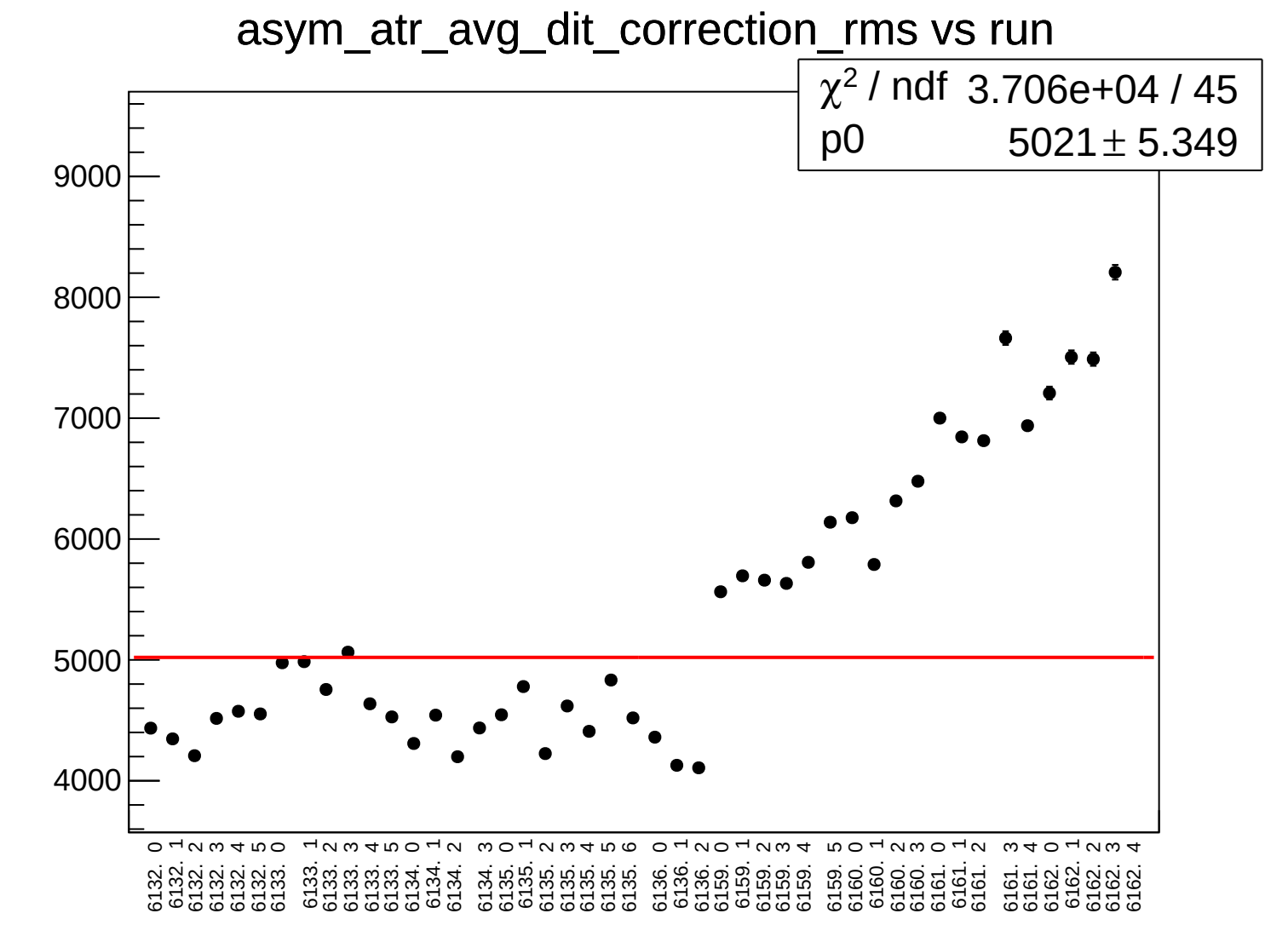

dit_asym_atr_avg_mean vs run
χ² / ndf 35.43 / 45
p0 −1702 ± 2843
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 81.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

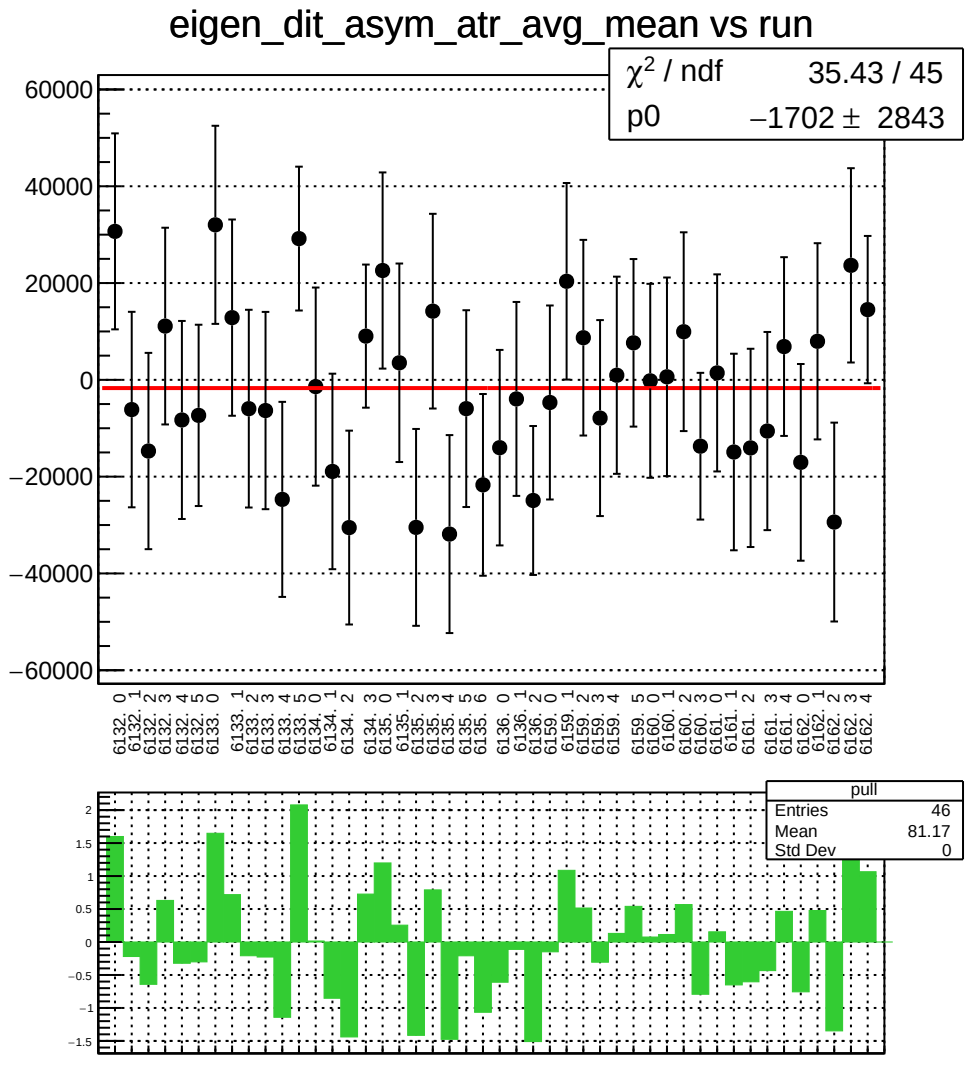

pull1D
Entries 46
Mean −0.01465
Std Dev 0.8774
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

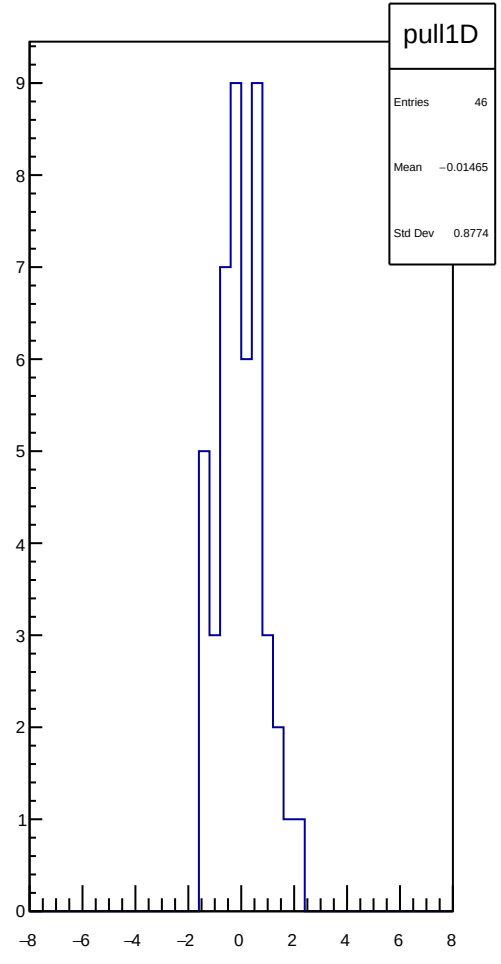

dit_asym_atr_avg_rms vs run
χ² / ndf 64.73 / 45
p0 1926 ± 2.01
1960
1940
1920
1900
1880
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

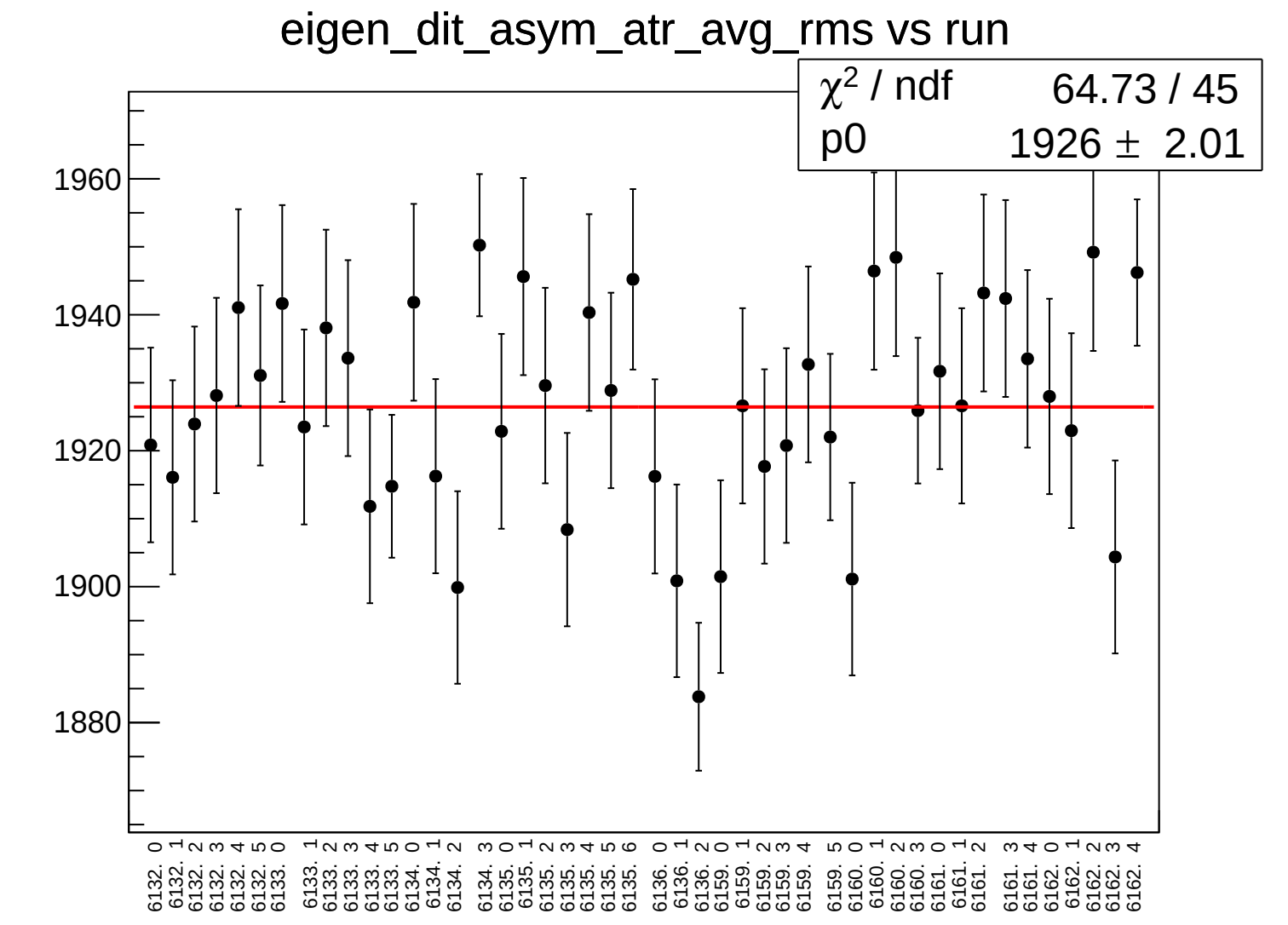

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 49.5 / 45
p0 2890 ± 7564
200
150
100
50
0
−50
−100
−150
−200
−250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 154.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.03474
Std Dev 1.037
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_avg_dit_correction_rms vs run
χ² / ndf 3.706e+04 / 45
p0 5021 ± 5.349
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 35.43 / 45
p0 −1702 ± 2843
pull
Entries 46
Mean 81.17
Std Dev 0


pull1D
Entries 46
Mean −0.01465
Std Dev 0.8774


eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 64.73 / 45
p0 1926 ± 2.01
1960
1940
1920
1900
1880
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
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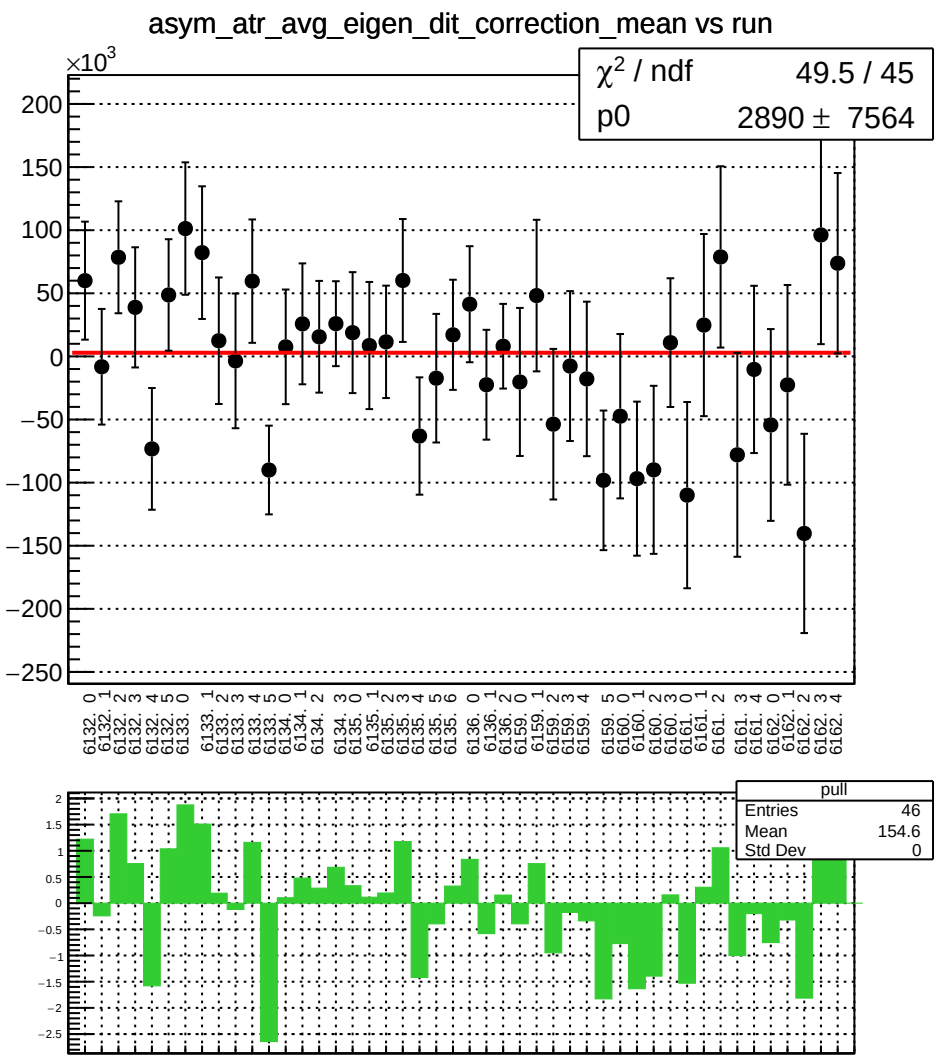
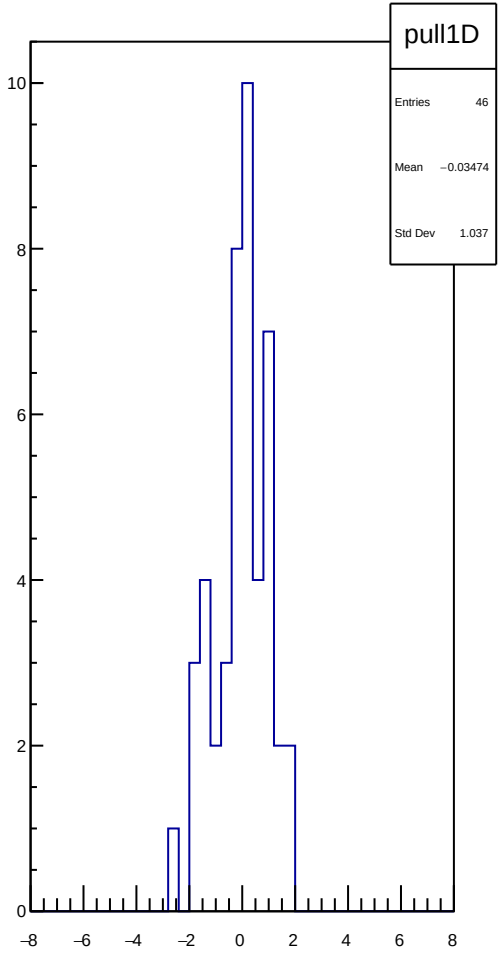
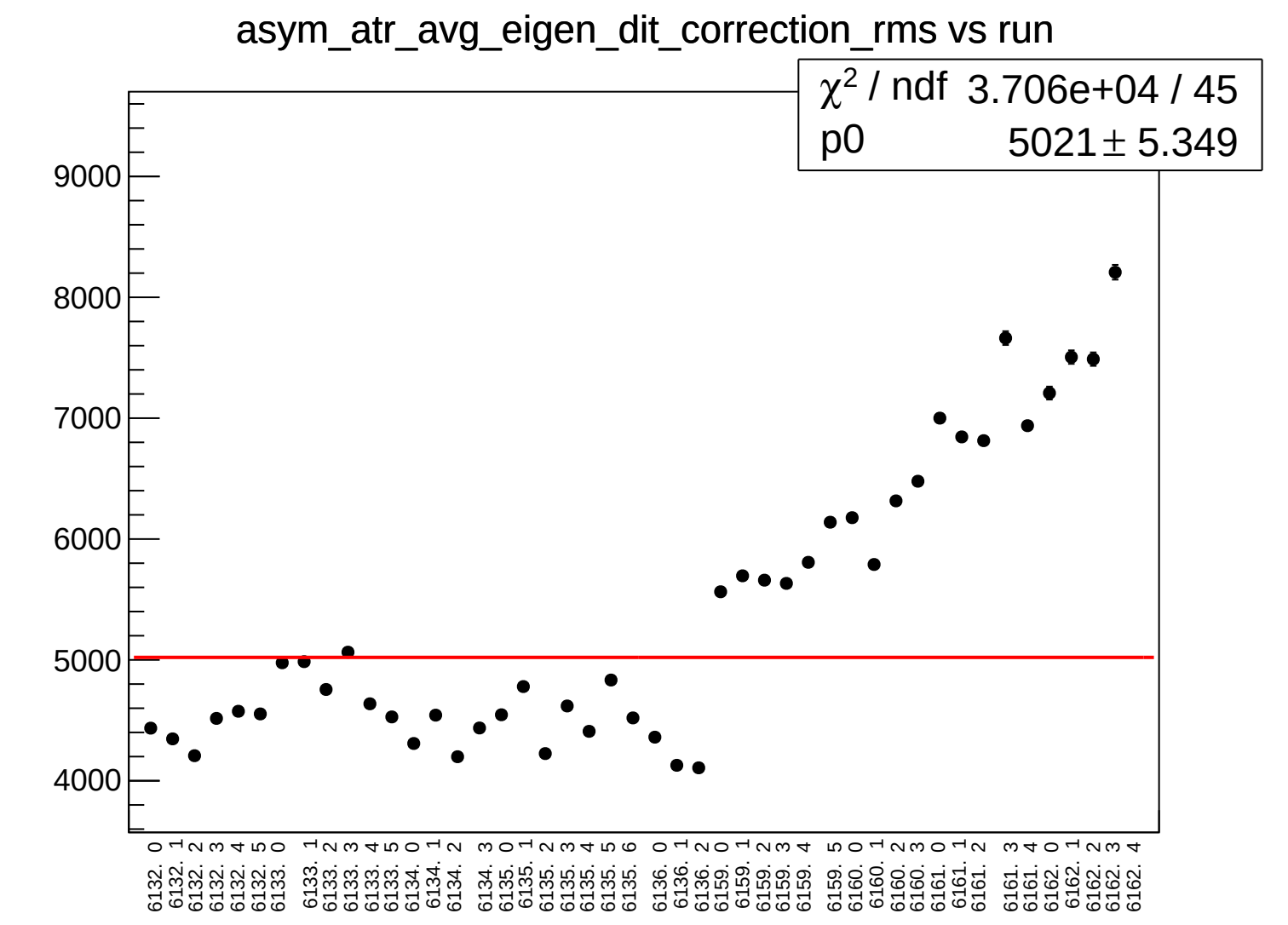
6162. 4


asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 49.5 / 45
p0 2890 ± 7564
pull
Entries 46
Mean 154.6
Std Dev 0


pull1D
Entries 46
Mean −0.03474
Std Dev 1.037


asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.706e+04 / 45
p0 5021 ± 5.349
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
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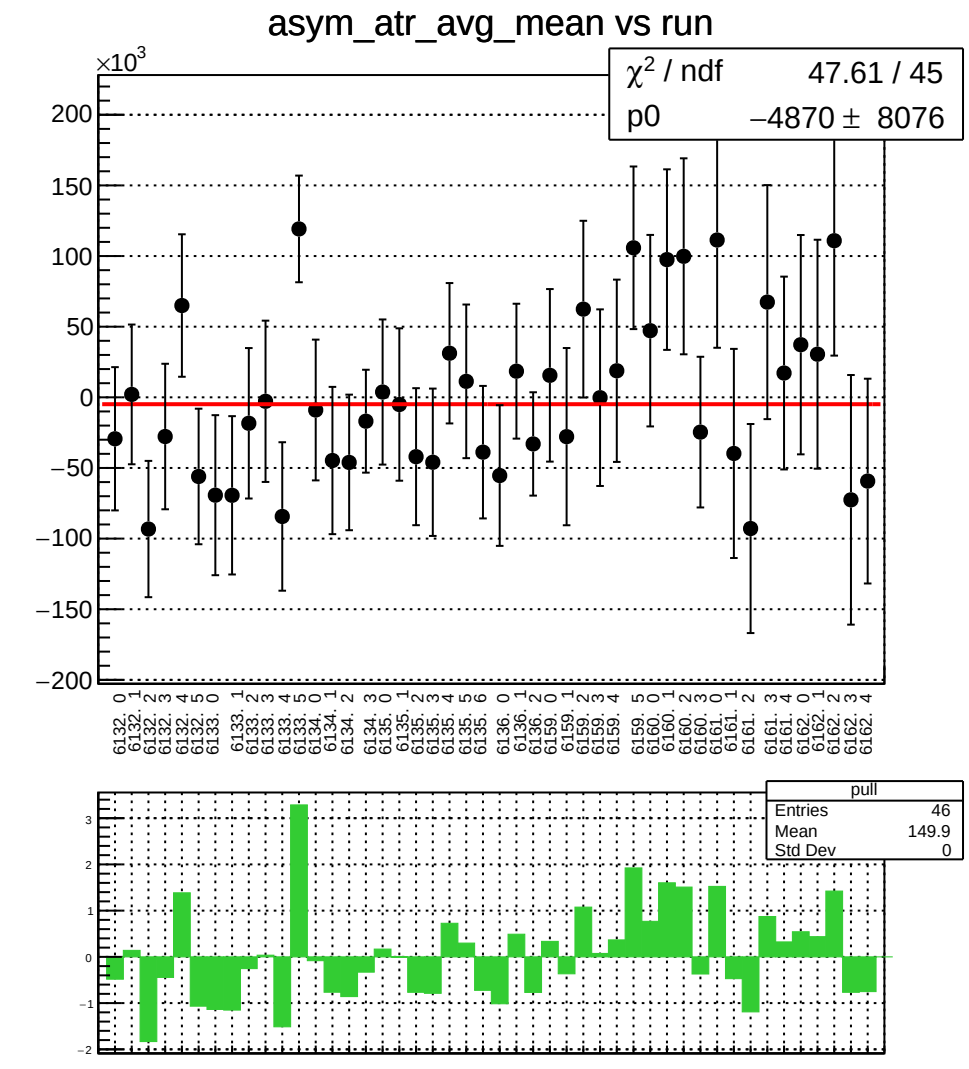
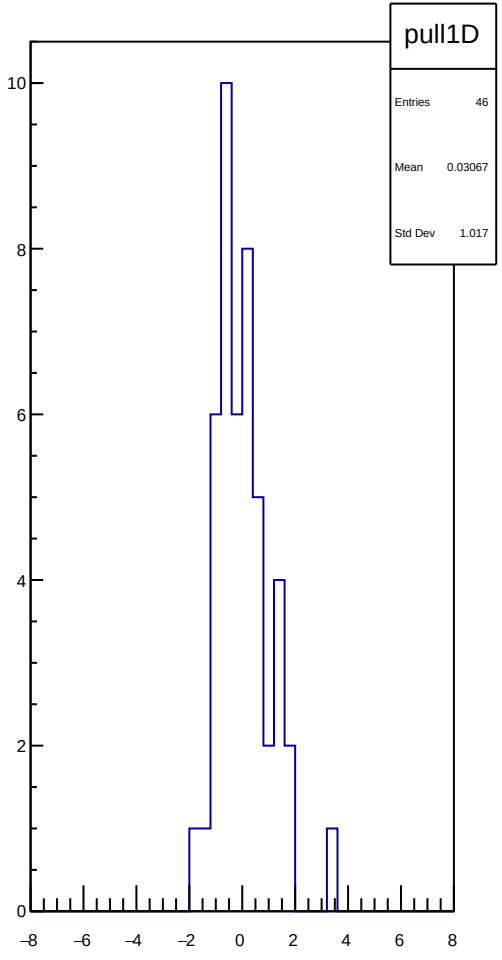
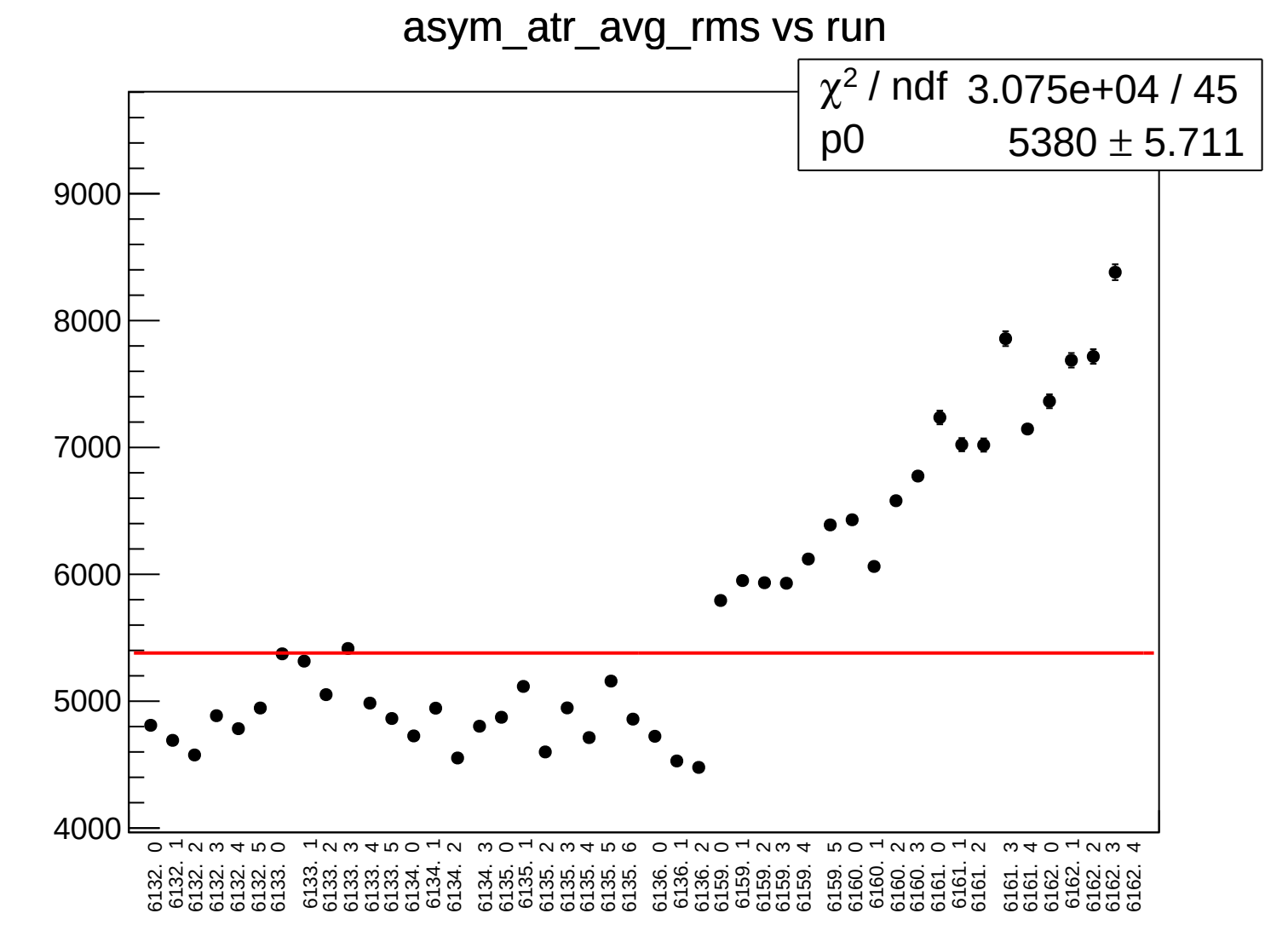
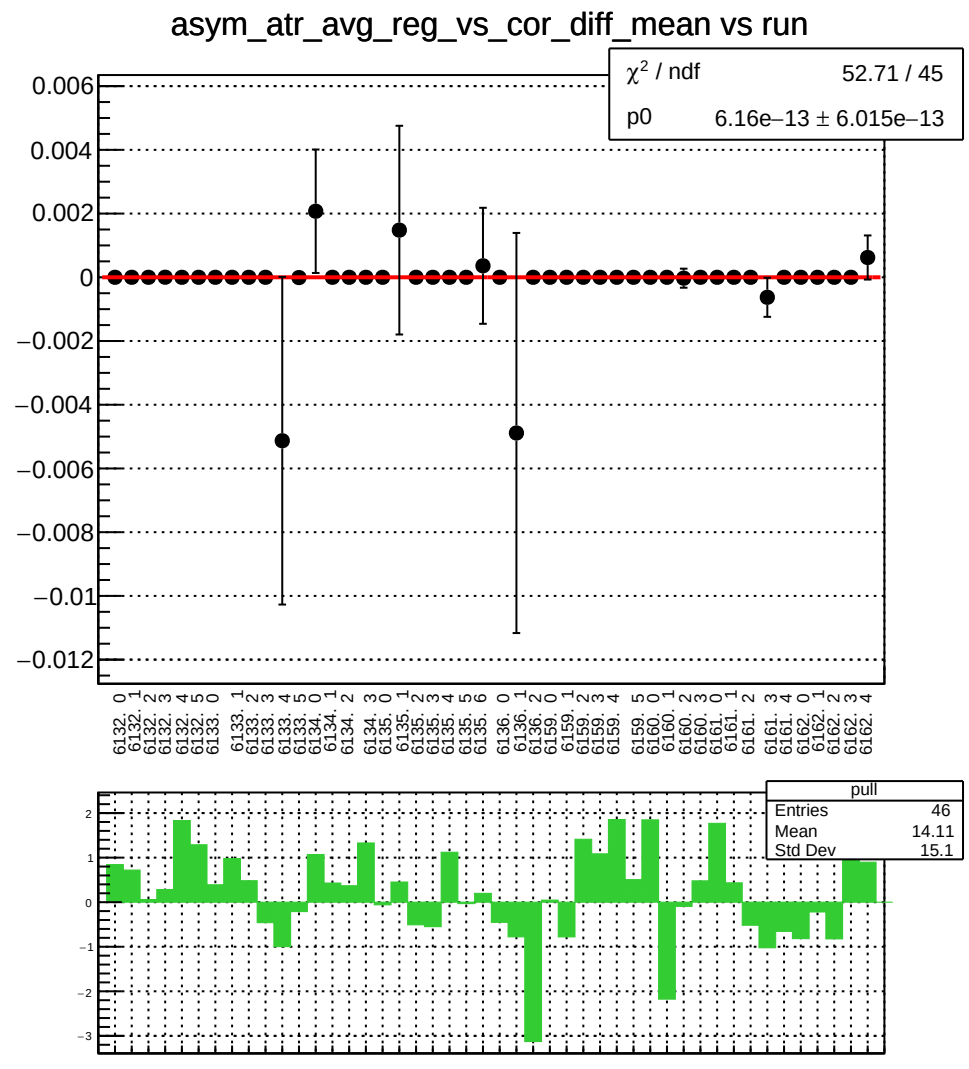
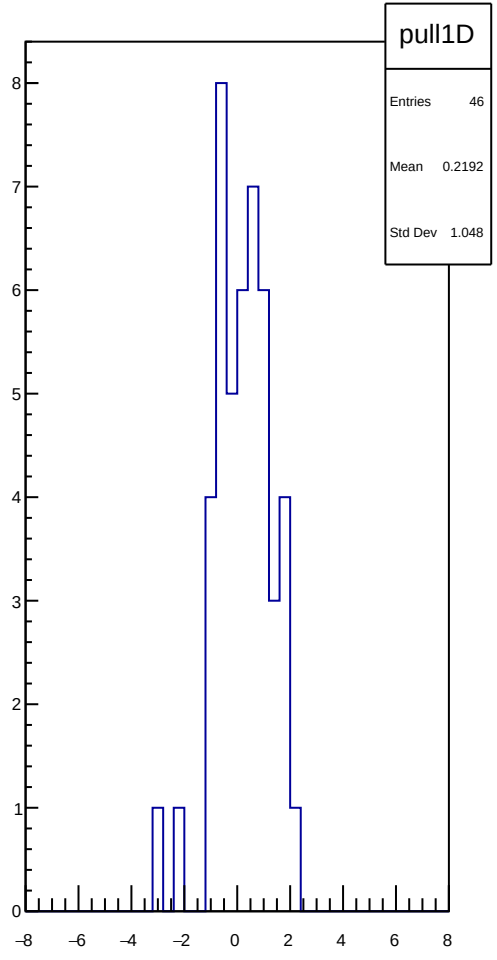
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

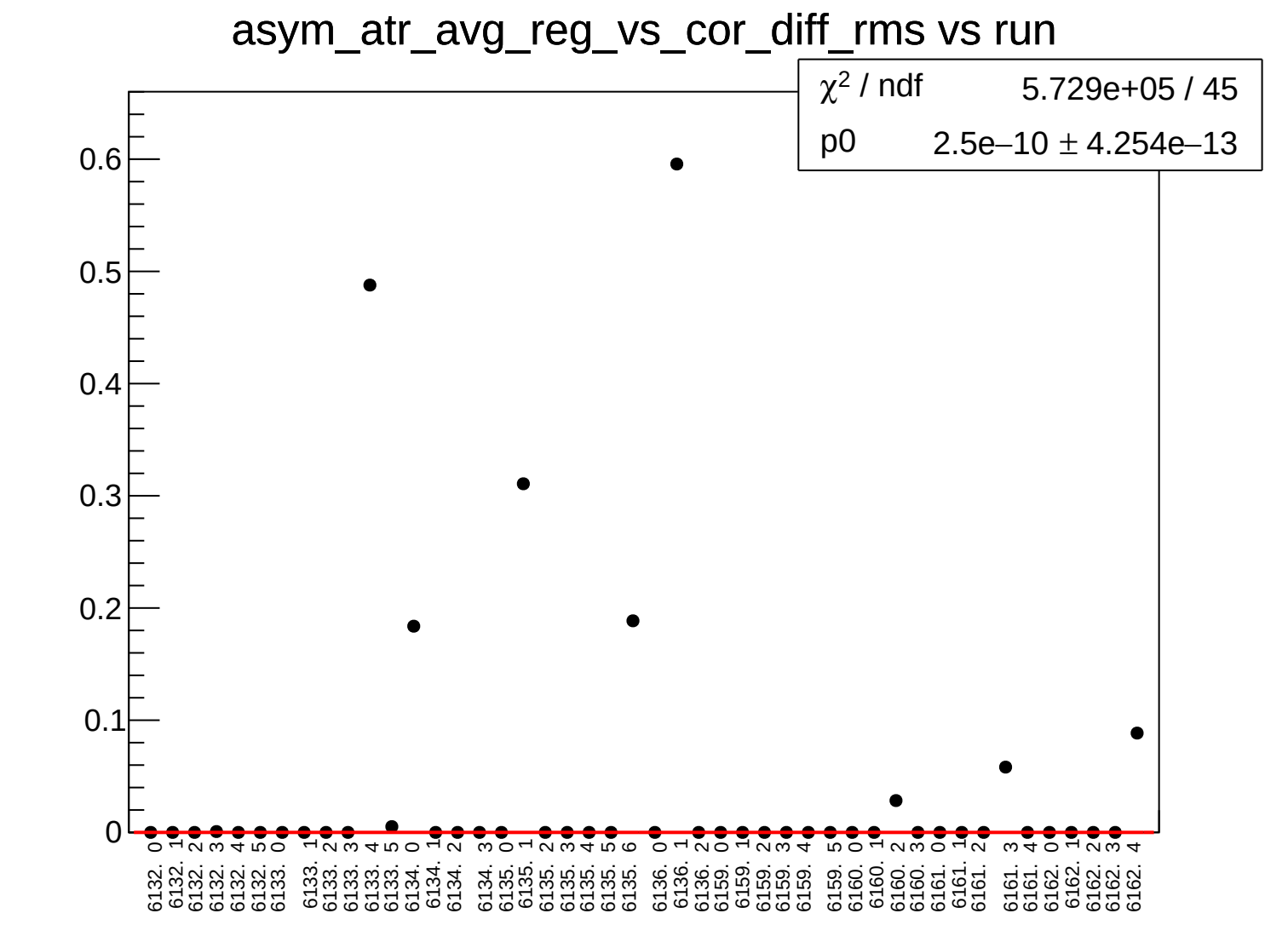

asym_atr_avg_mean vs run
×10^3
χ² / ndf 47.61 / 45
p0 −4870 ± 8076
200
150
100
50
0
−50
−100
−150
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 149.9
Std Dev 0
3
2
1
0
−1
−2

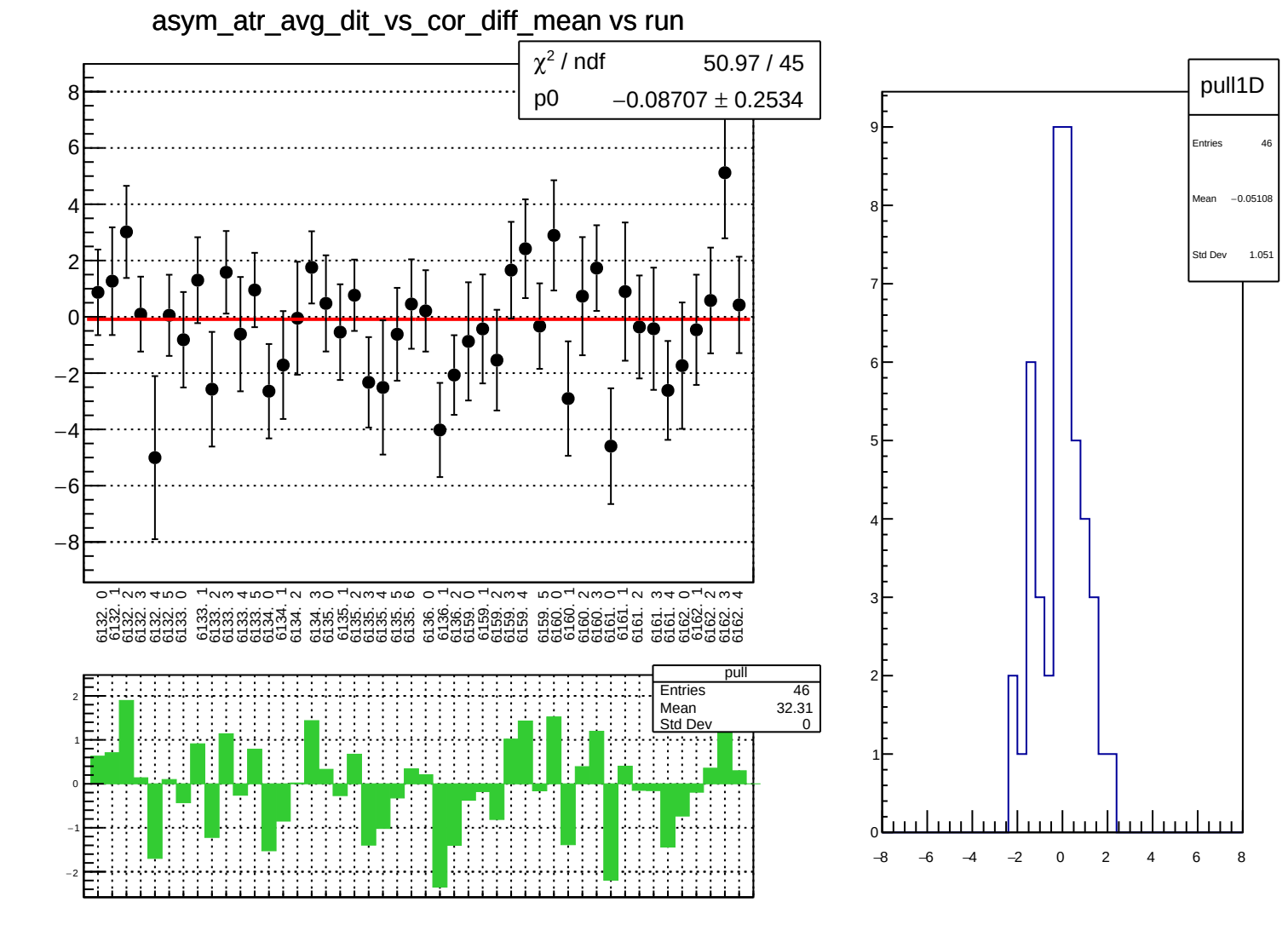

pull1D
Entries 46
Mean 0.03067
Std Dev 1.017
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

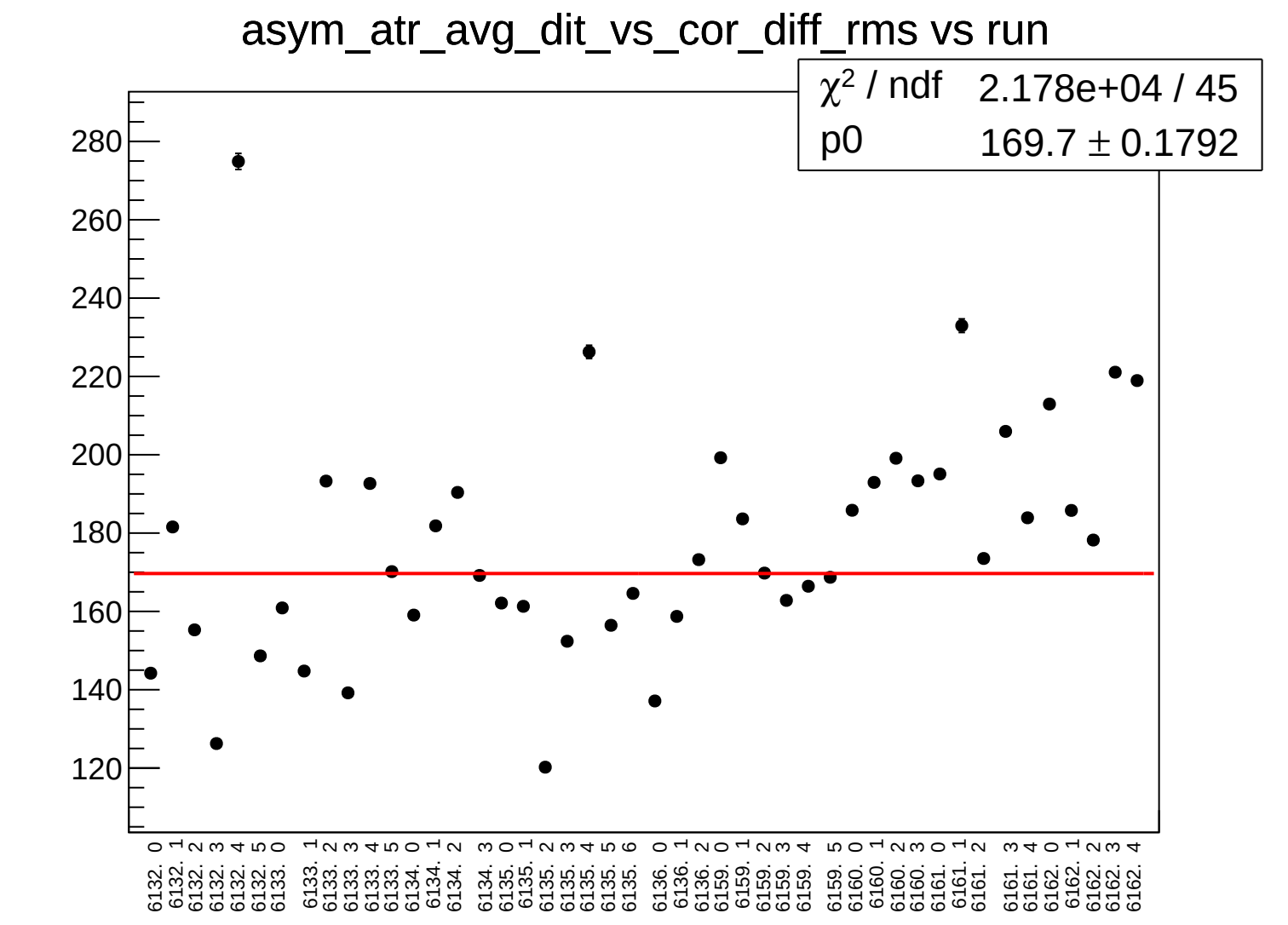

asym_atr_avg_rms vs run
χ² / ndf 3.075e+04 / 45
p0 5380 ± 5.711
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

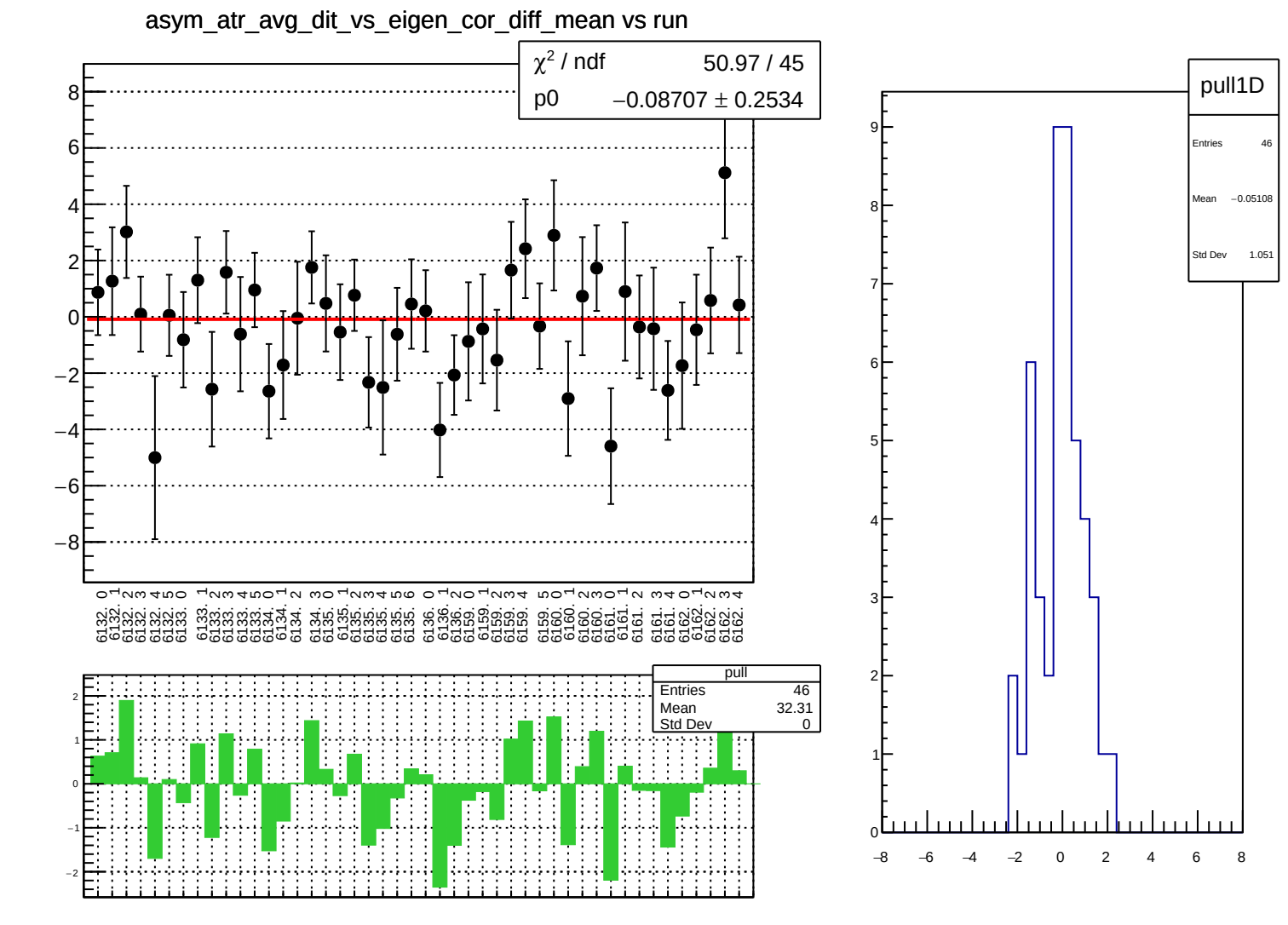

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 52.71 / 45
p0 6.16e−13 ± 6.015e−13
pull
Entries 46
Mean 14.11
Std Dev 15.1

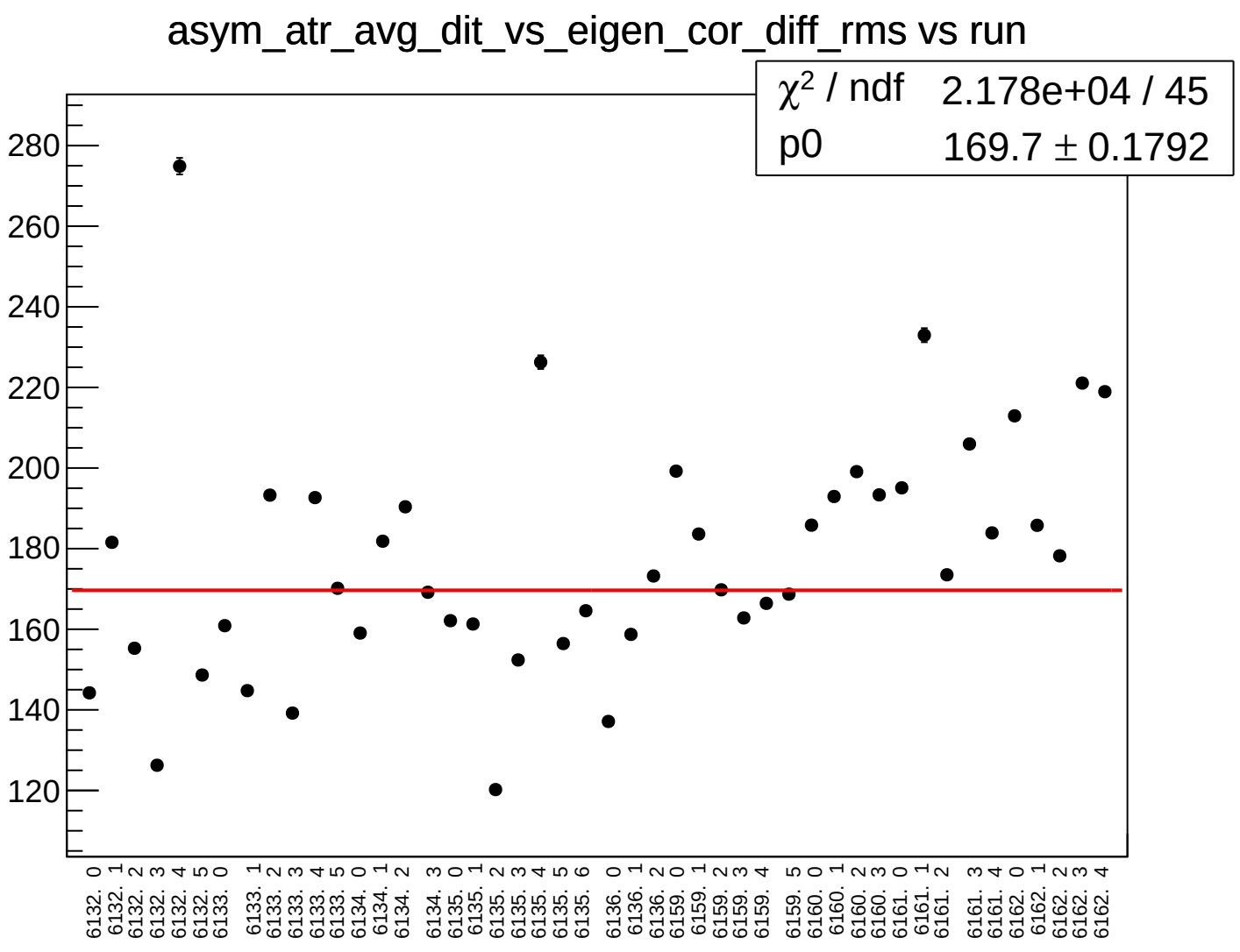

pull1D
Entries 46
Mean 0.2192
Std Dev 1.048

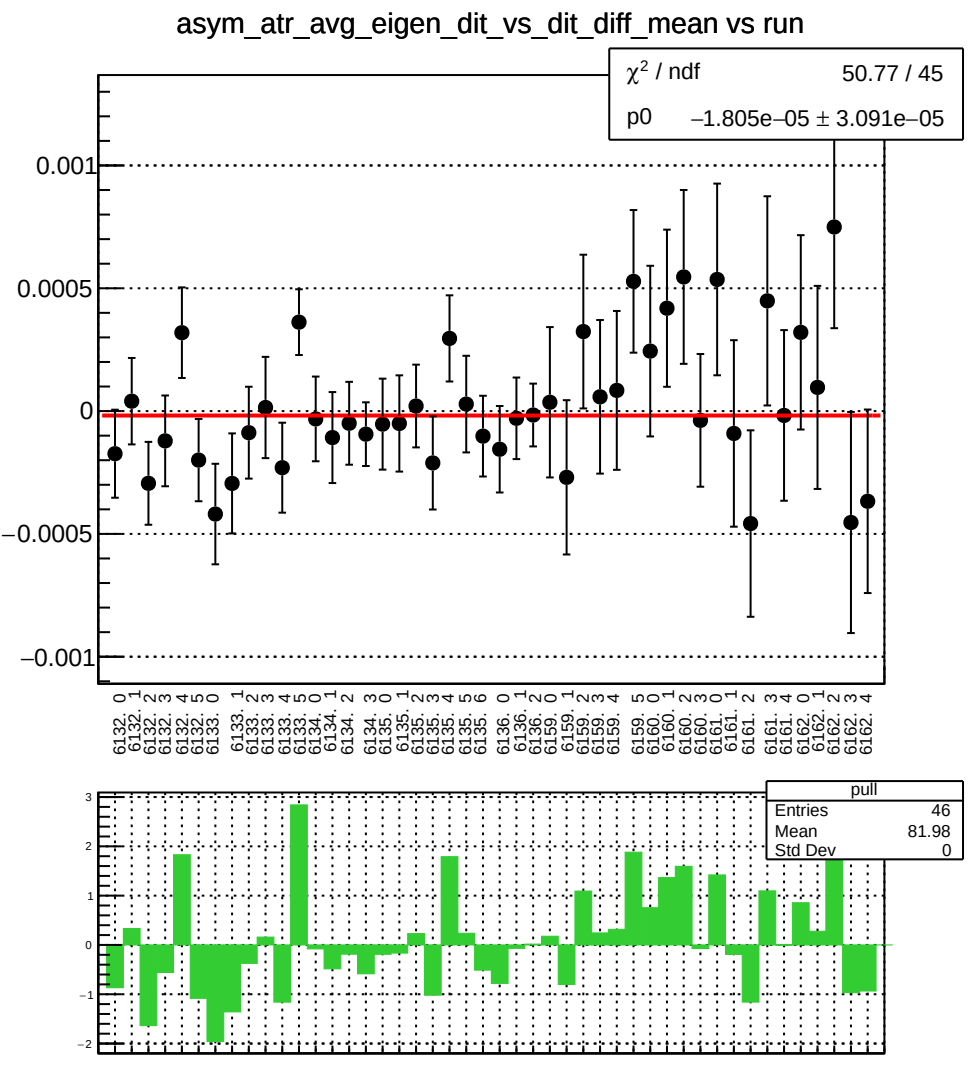

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.729e+05 / 45
p0 2.5e−10 ± 4.254e−13
0.6
0.5
0.4
0.3
0.2
0.1
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

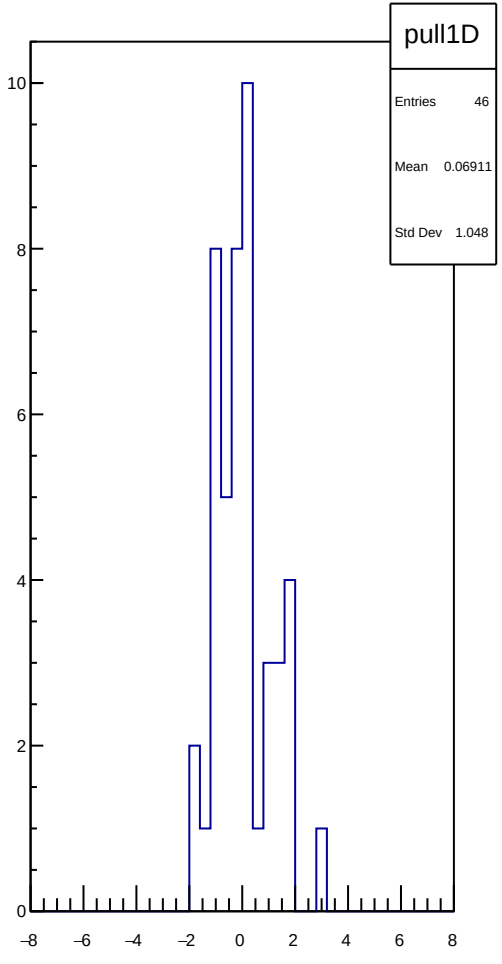

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 50.97 / 45
p0 −0.08707 ± 0.2534
pull
Entries 46
Mean 32.31
Std Dev 0
pull1D
Entries 46
Mean −0.05108
Std Dev 1.051

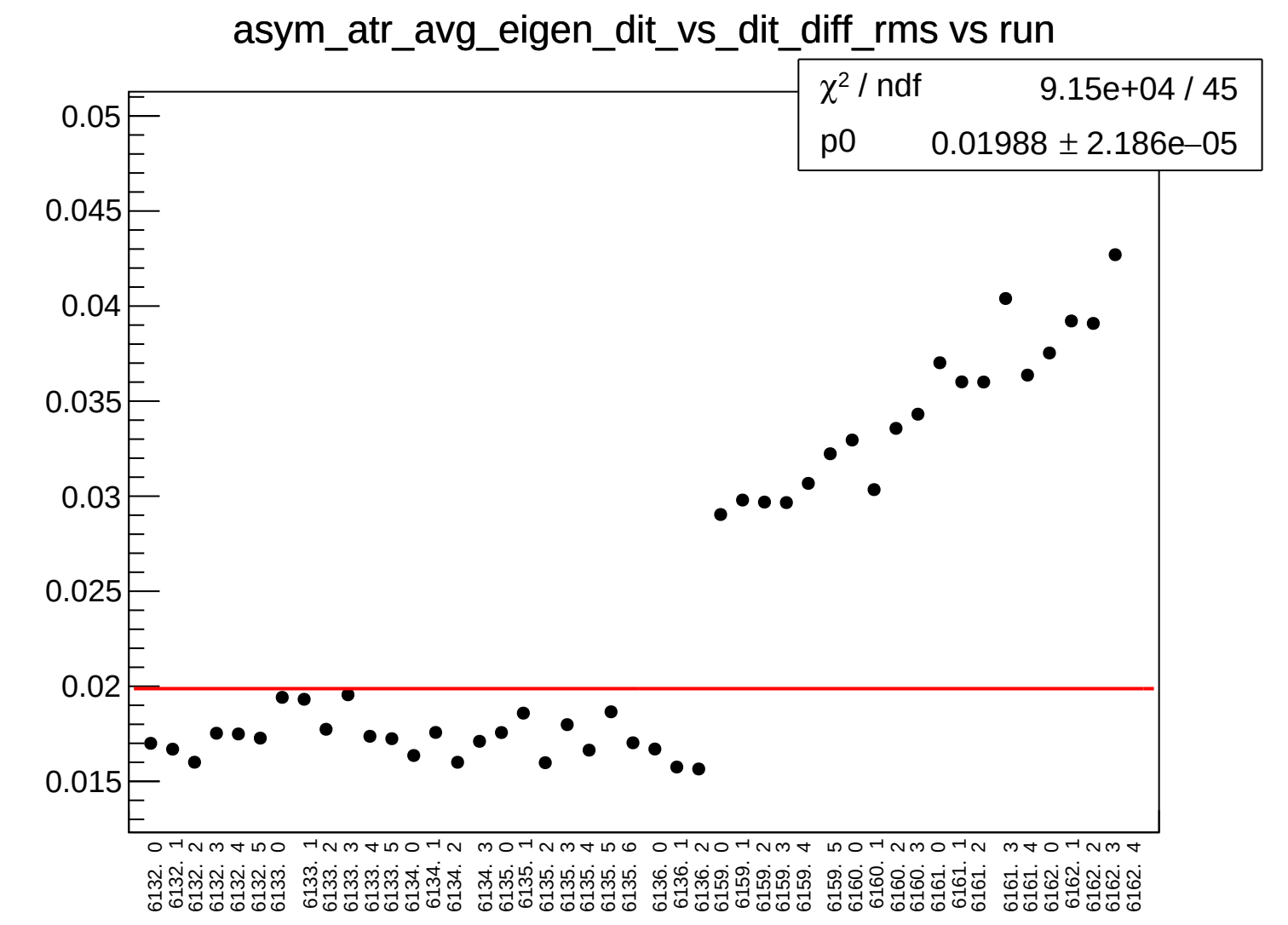

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.178e+04 / 45
p0 169.7 ± 0.1792
280
260
240
220
200
180
160
140
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

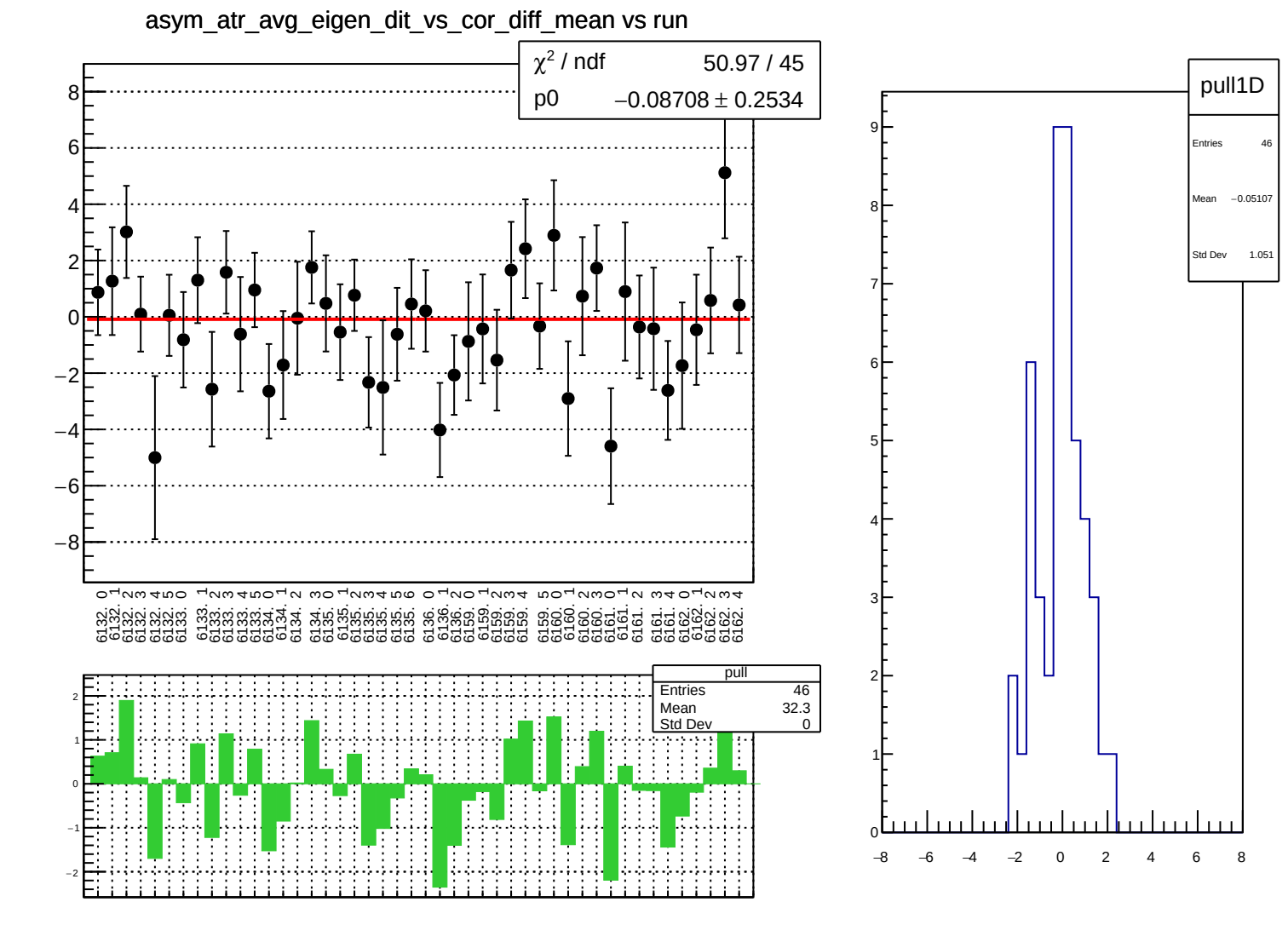

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.97 / 45
p0 −0.08707 ± 0.2534
pull
Entries 46
Mean 32.31
Std Dev 0
pull1D
Entries 46
Mean −0.05108
Std Dev 1.051

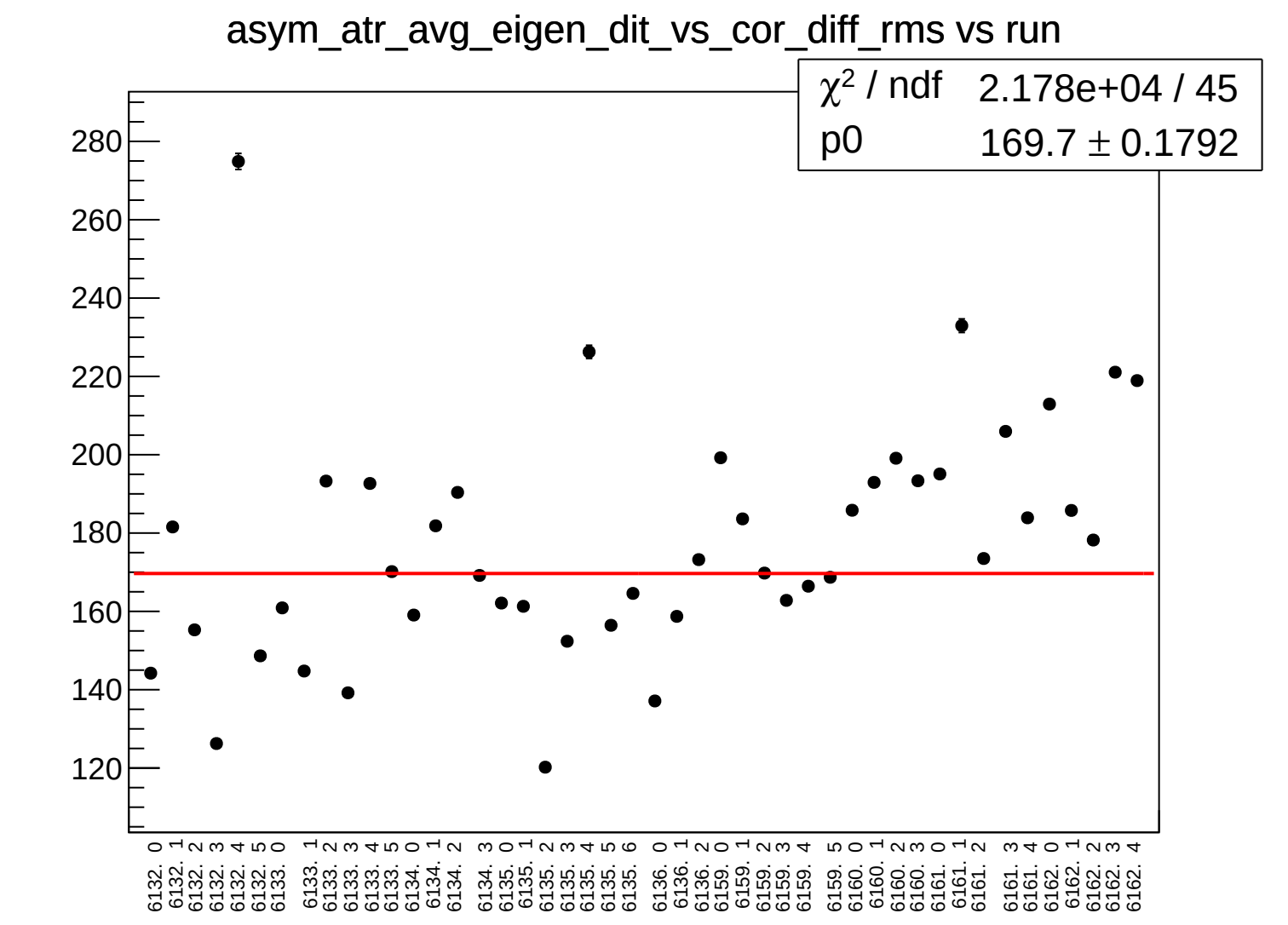

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.178e+04 / 45
p0 169.7 ± 0.1792
280
260
240
220
200
180
160
140
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

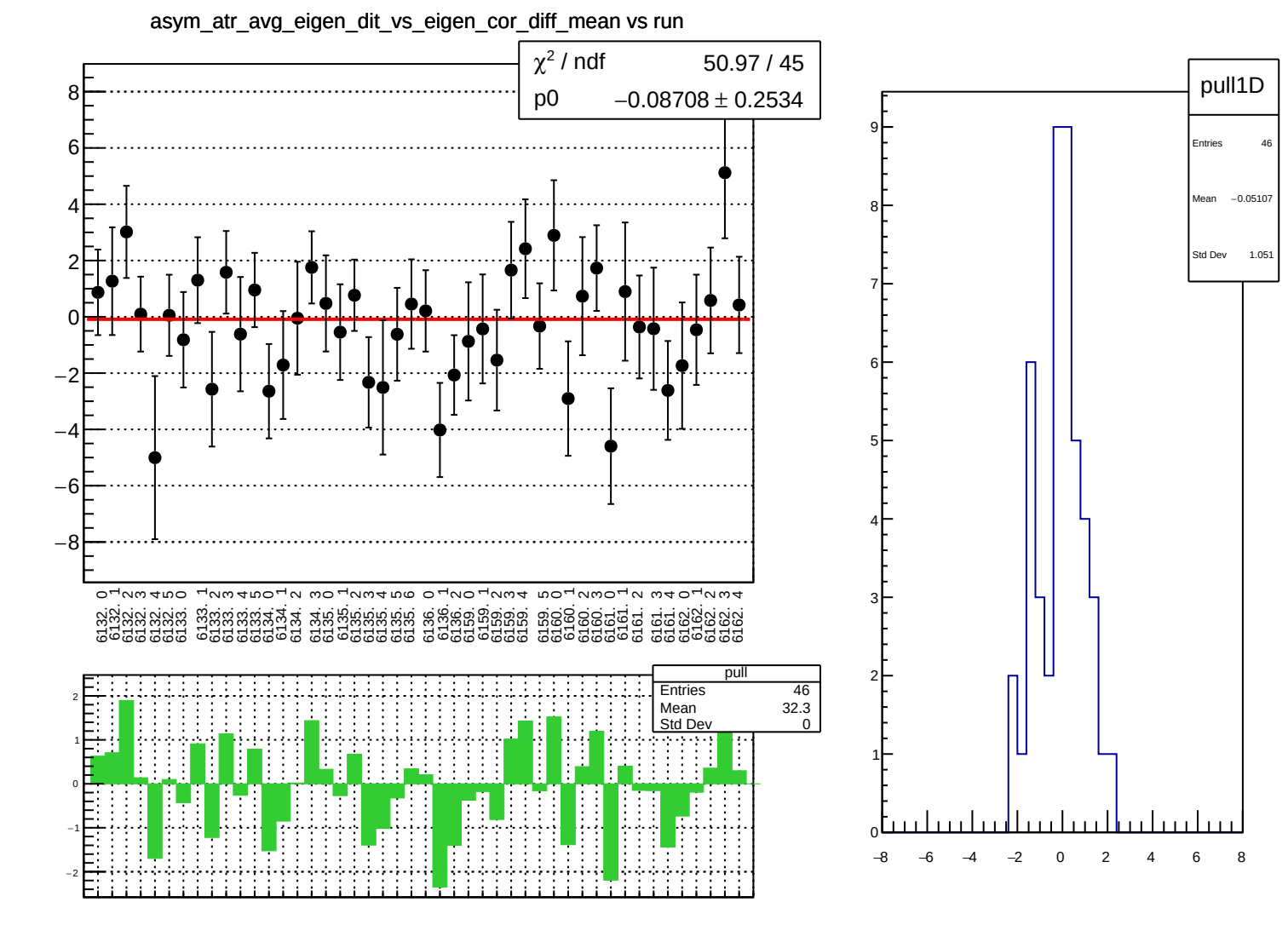

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 50.77 / 45
p0 −1.805e−05 ± 3.091e−05
0.001
0.0005
0
−0.0005
−0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 81.98
Std Dev 0
3
2
1
0
−1
−2

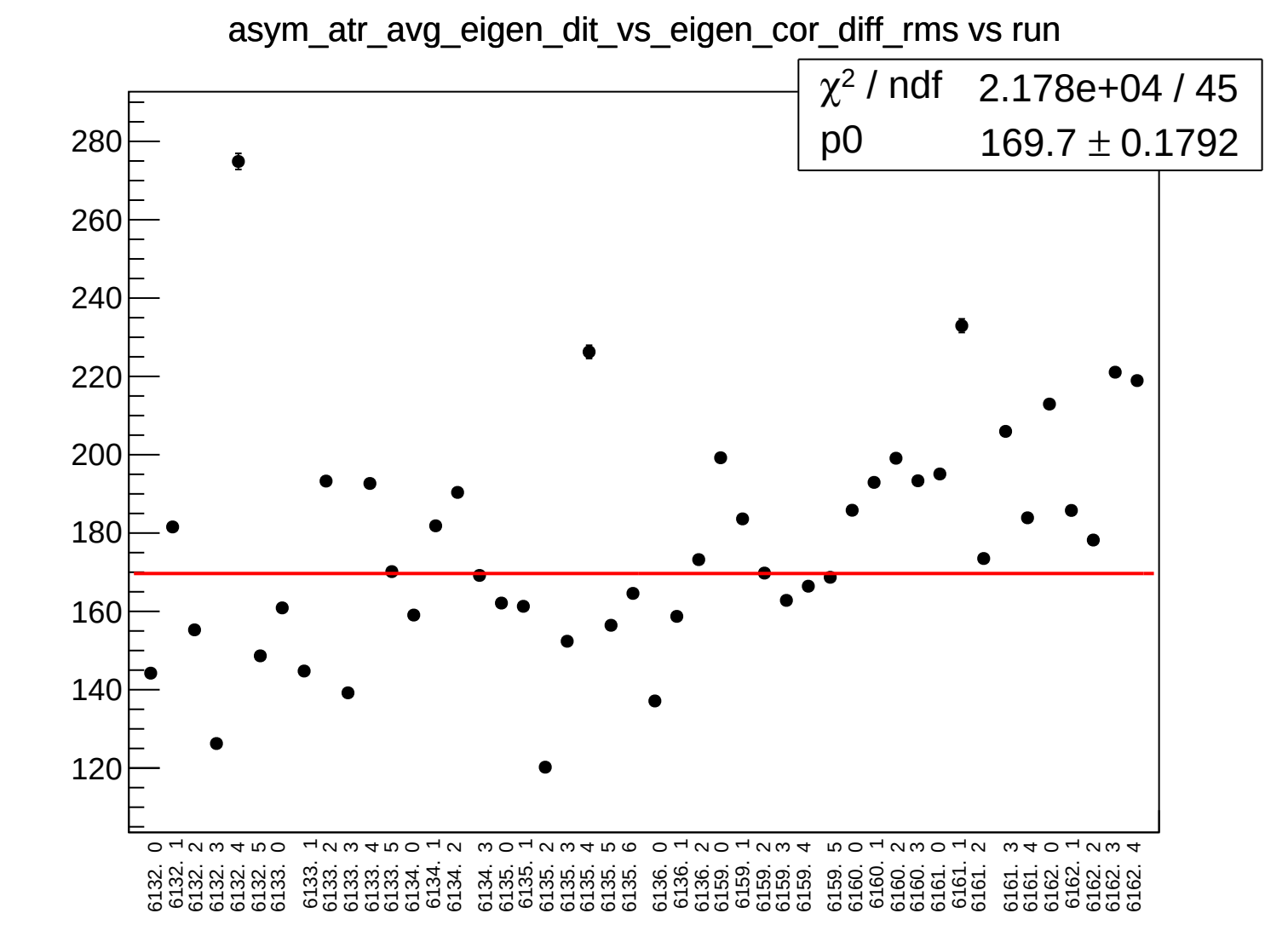

pull1D
Entries 46
Mean 0.06911
Std Dev 1.048
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

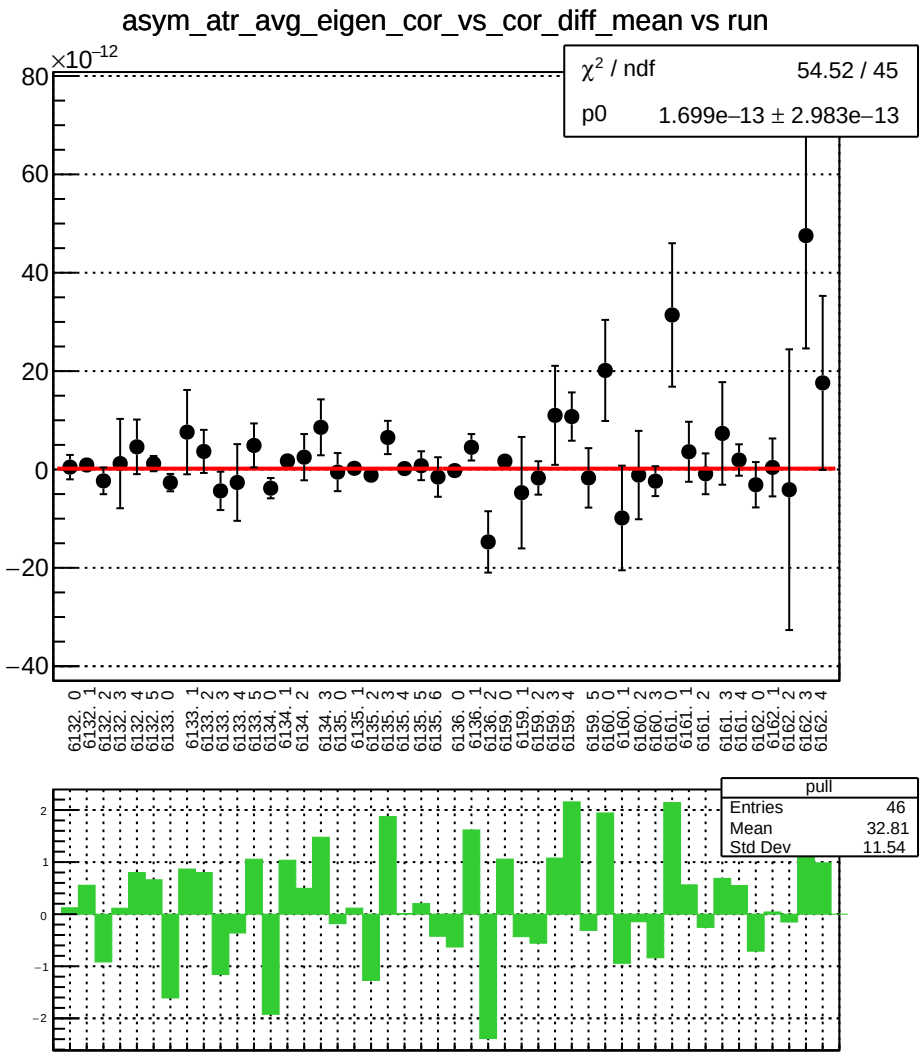

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.15e+04 / 45
p0 0.01988 ± 2.186e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

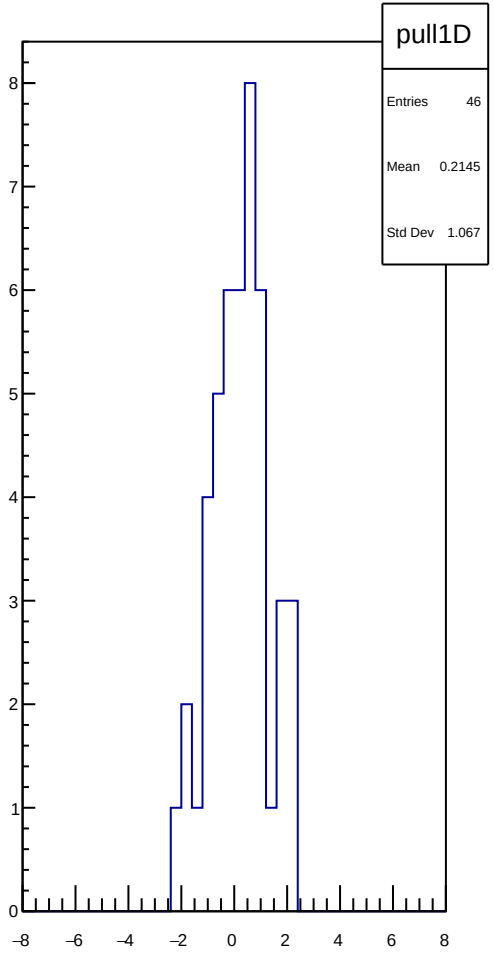

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 50.97 / 45
p0 −0.08708 ± 0.2534
pull
Entries 46
Mean 32.3
Std Dev 0
pull1D
Entries 46
Mean −0.05107
Std Dev 1.051

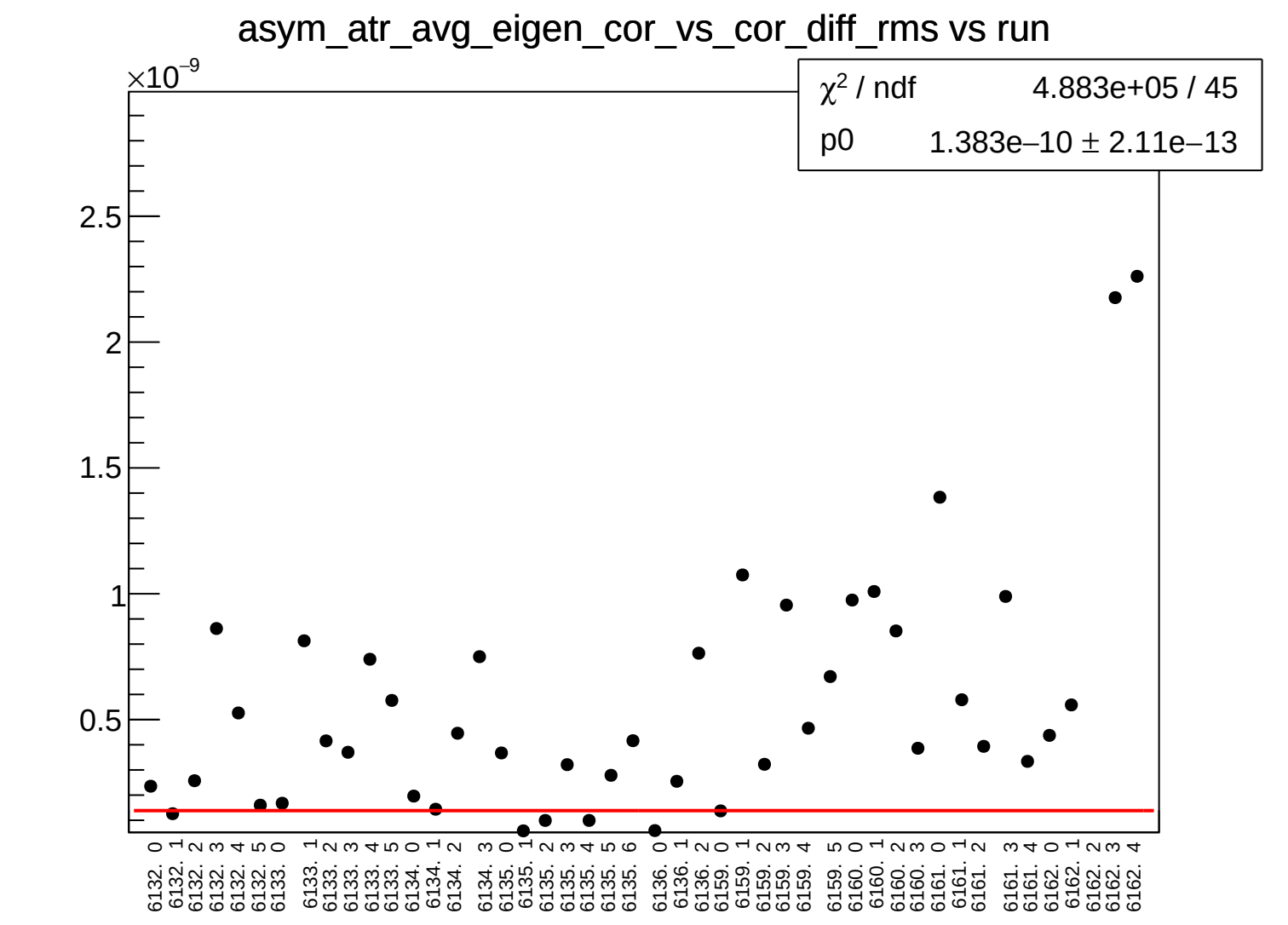

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.178e+04 / 45
p0 169.7 ± 0.1792
280
260
240
220
200
180
160
140
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

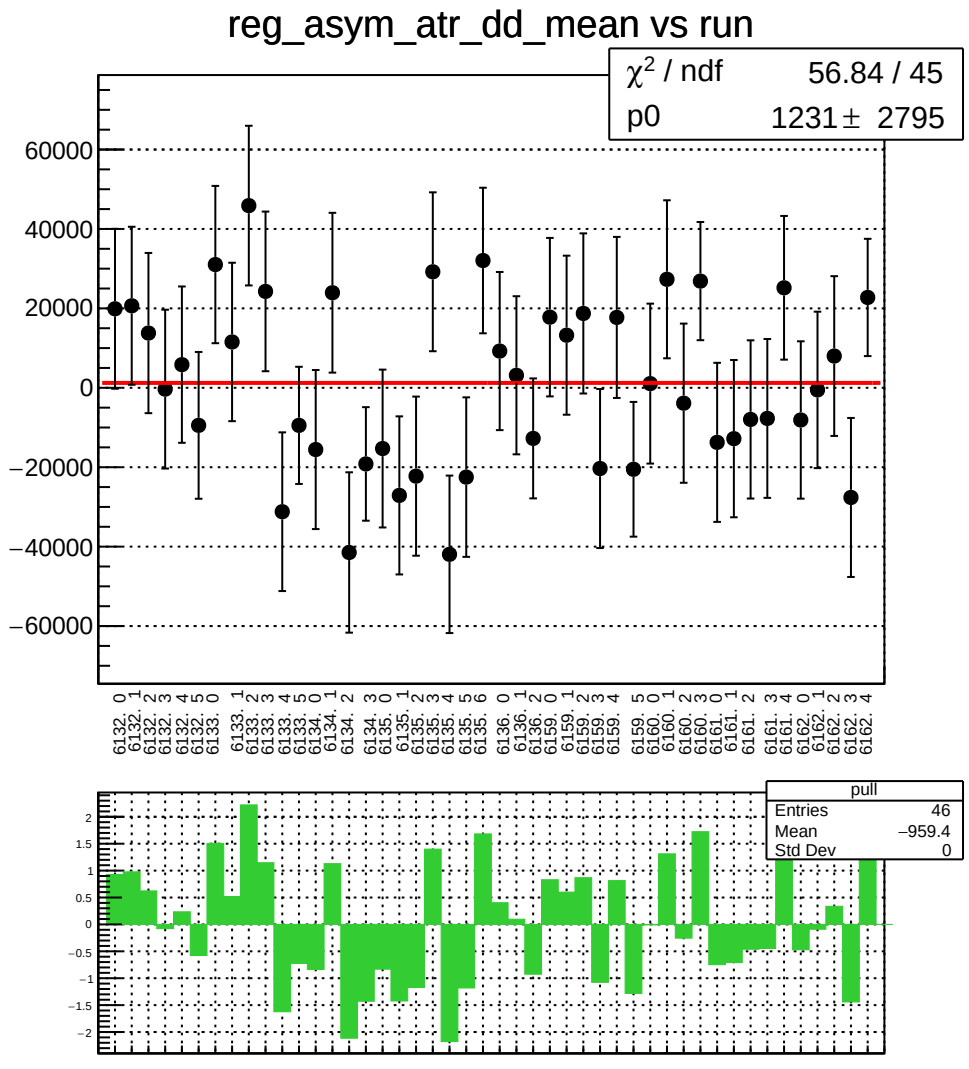

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.97 / 45
p0 −0.08708 ± 0.2534
pull
Entries 46
Mean 32.3
Std Dev 0
pull1D
Entries 46
Mean −0.05107
Std Dev 1.051

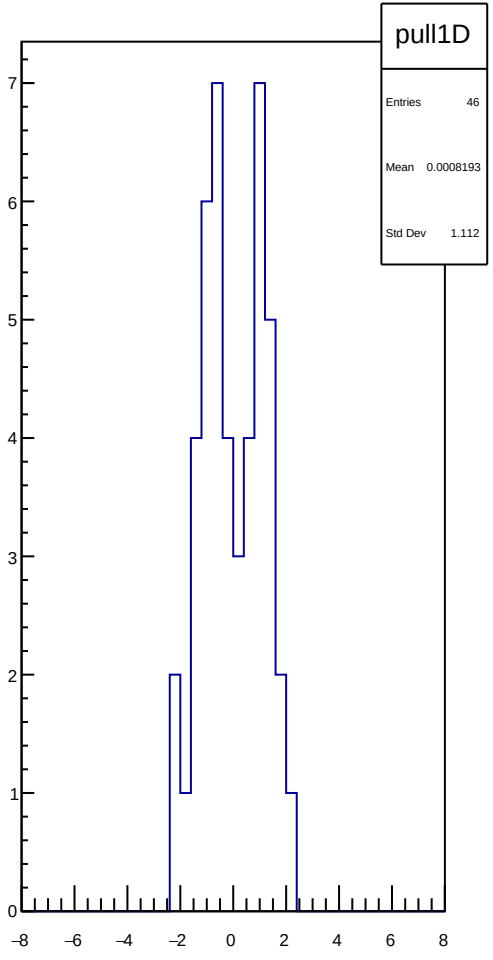

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.178e+04 / 45
p0 169.7 ± 0.1792
280
260
240
220
200
180
160
140
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

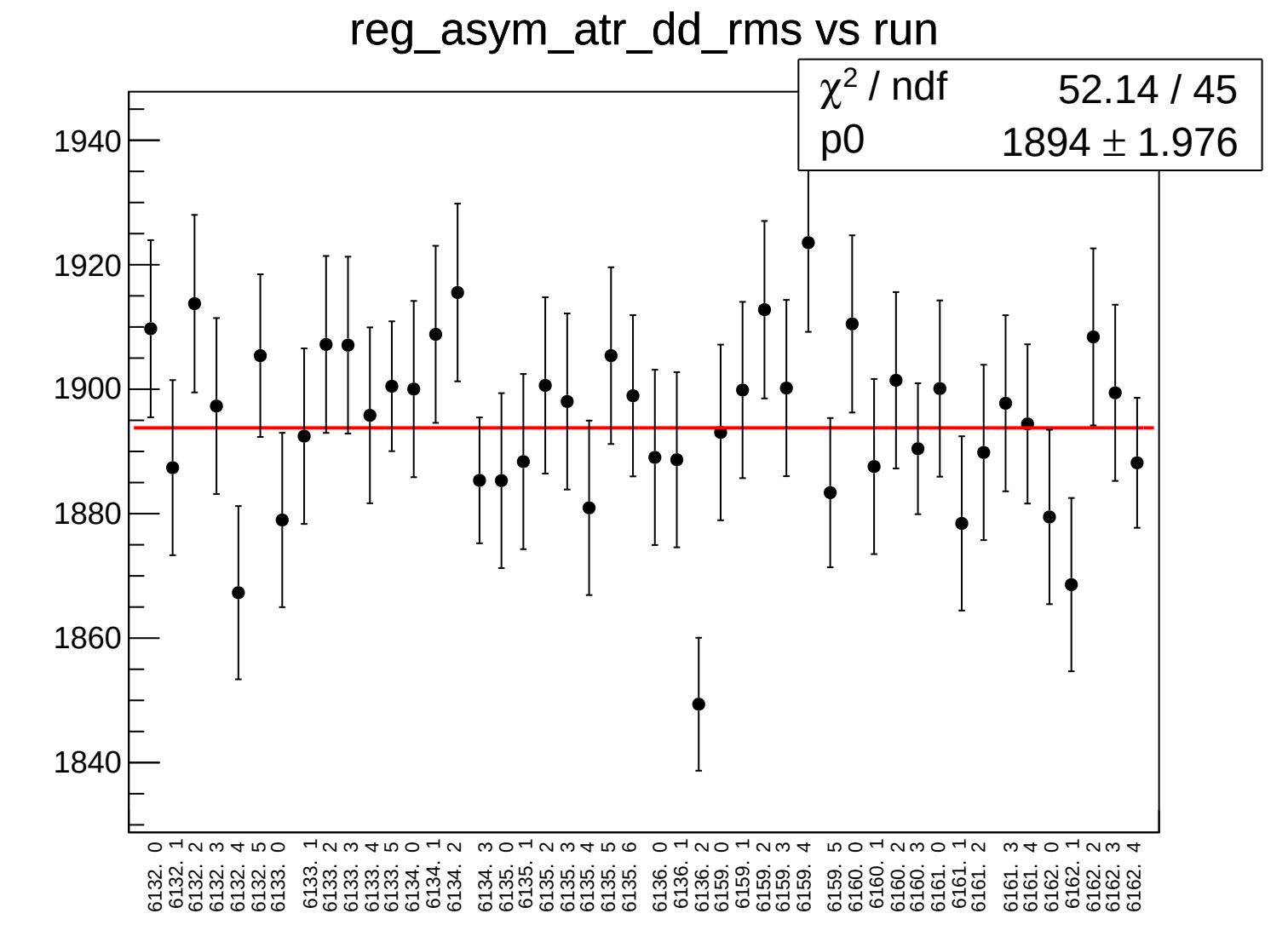

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 54.52 / 45
p0 1.699e−13 ± 2.983e−13
pull
Entries 46
Mean 32.81
Std Dev 11.54


pull1D
Entries 46
Mean 0.2145
Std Dev 1.067


asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.883e+05 / 45
p0 1.383e−10 ± 2.11e−13
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_atr_dd_mean vs run
χ² / ndf 56.84 / 45
p0 1231 ± 2795
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −959.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.0008193
Std Dev 1.112
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 52.14 / 45
p0 1894 ± 1.976
1940
1920
1900
1880
1860
1840
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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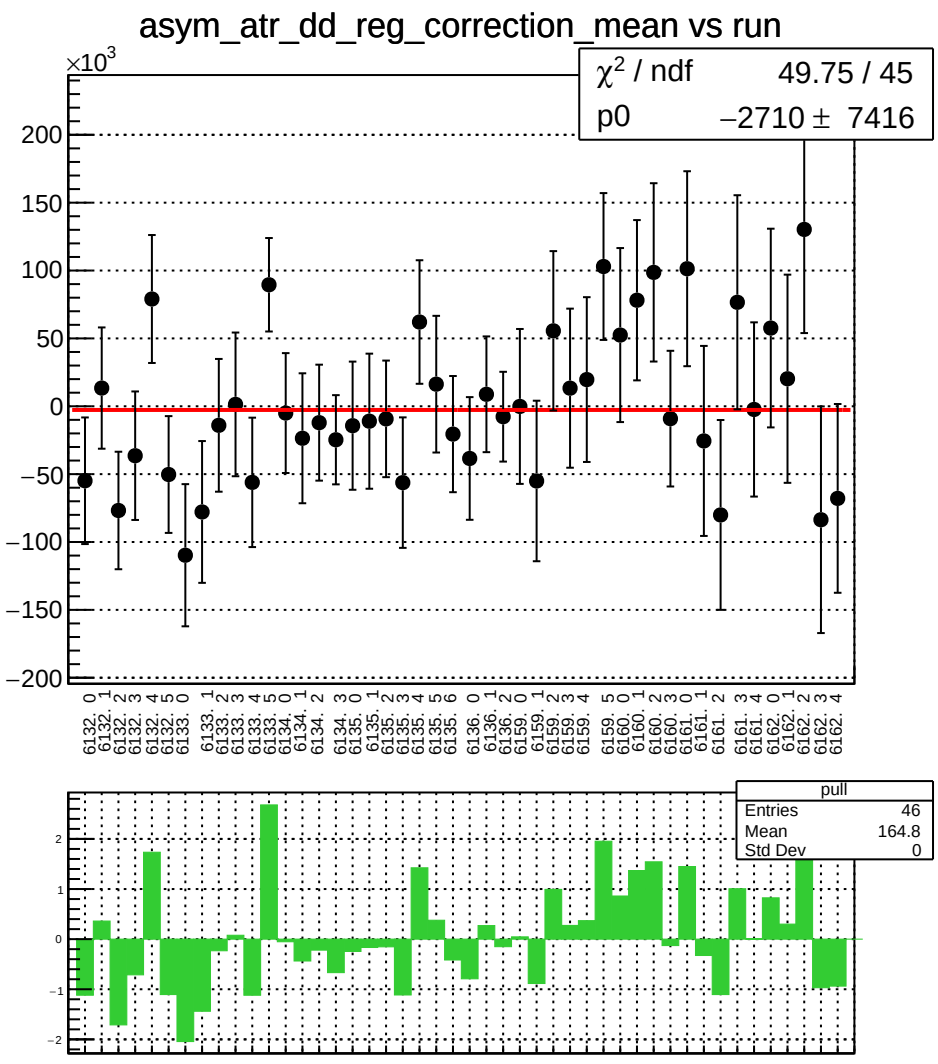
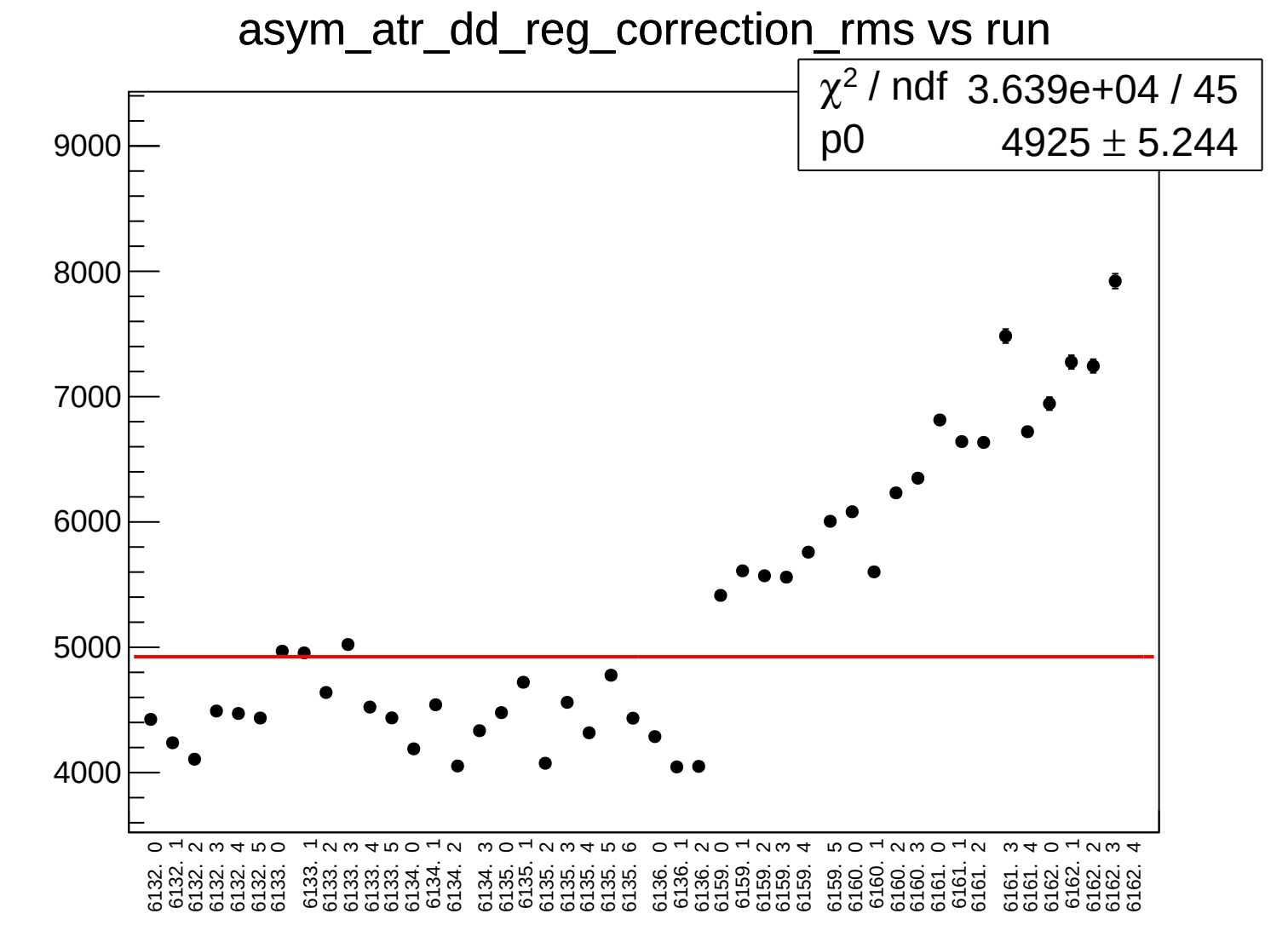
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 49.75 / 45
p0 −2710 ± 7416
200
150
100
50
0
−50
−100
−150
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 164.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.03071
Std Dev 1.04
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_dd_reg_correction_rms vs run
χ² / ndf 3.639e+04 / 45
p0 4925 ± 5.244
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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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
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6162. 0
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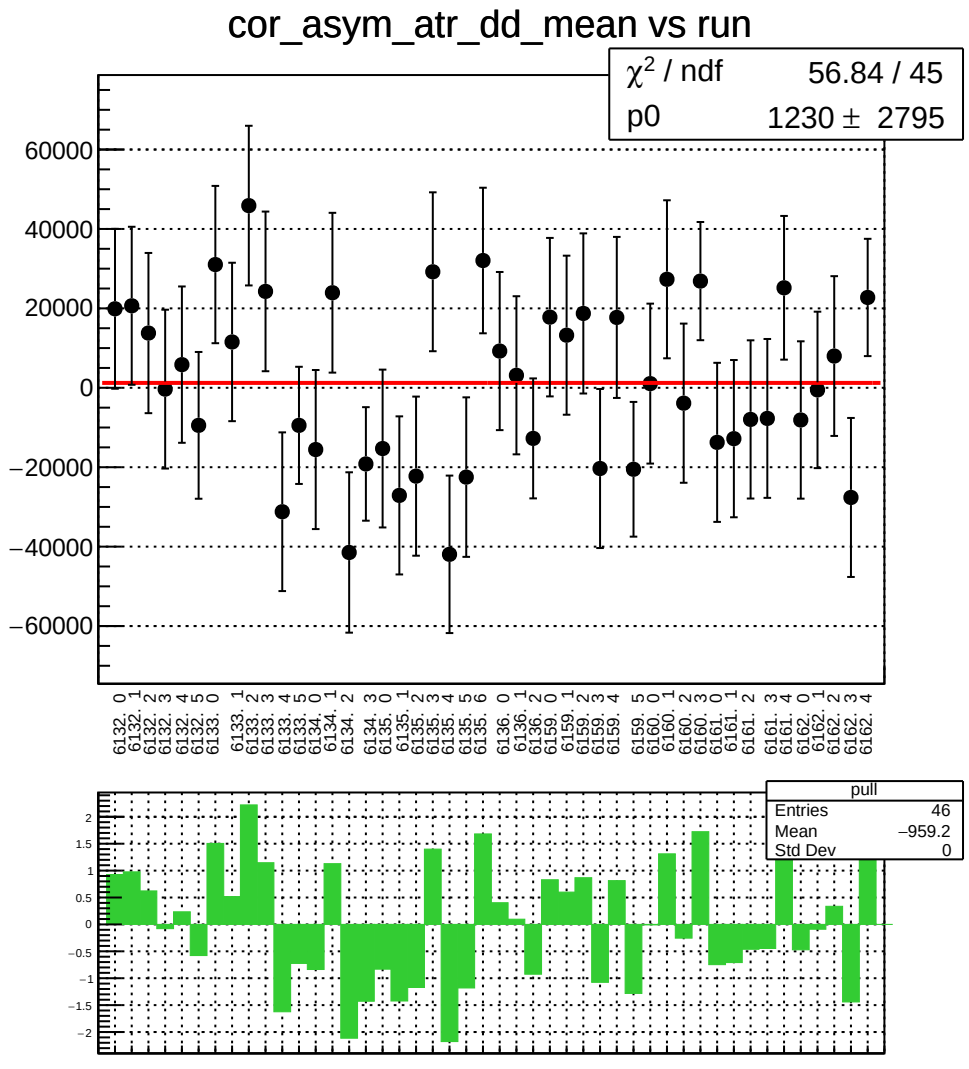
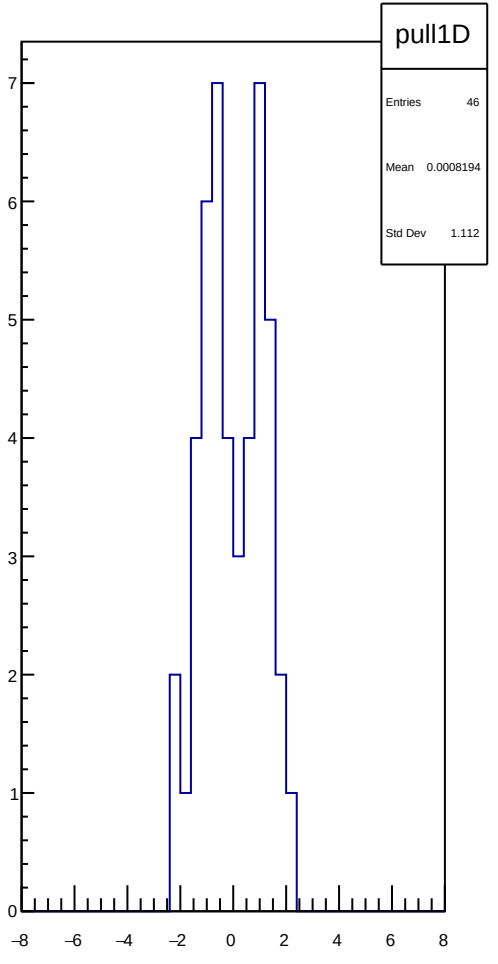
6162. 3
6162. 4


cor_asym_atr_dd_mean vs run
χ² / ndf 56.84 / 45
p0 1230 ± 2795
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −959.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.0008194
Std Dev 1.112
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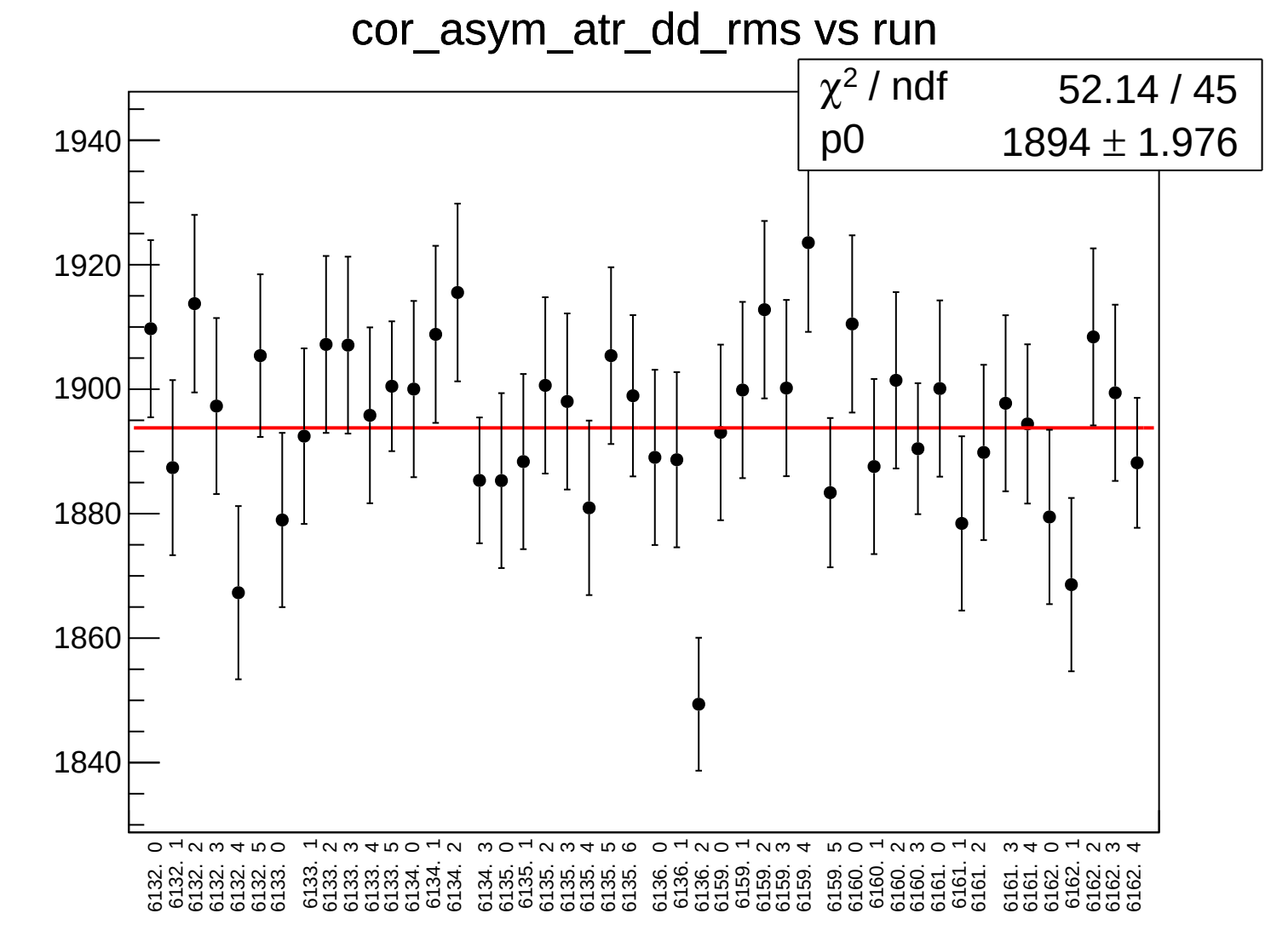
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr_dd_rms vs run
χ² / ndf 52.14 / 45
p0 1894 ± 1.976
1940
1920
1900
1880
1860
1840
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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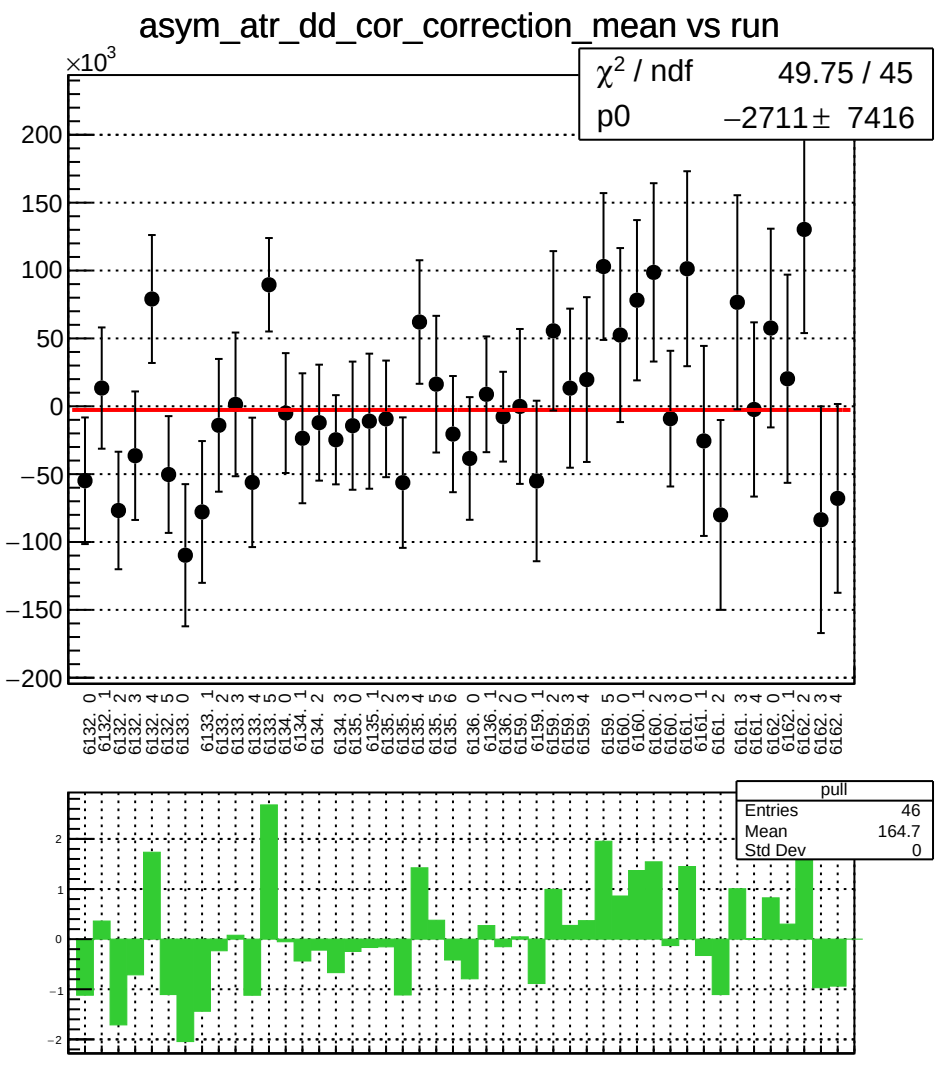
6162. 4


asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 49.75 / 45
p0 −2711 ± 7416
200
150
100
50
0
−50
−100
−150
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
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6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
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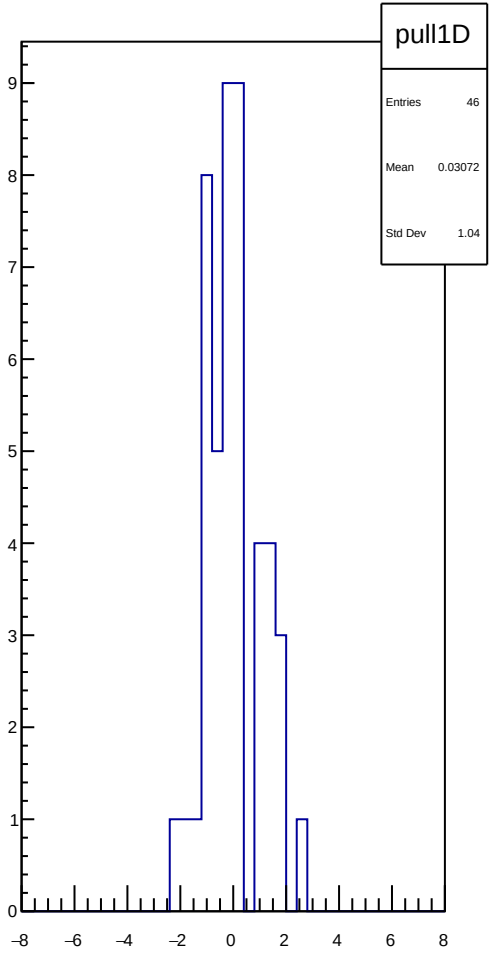
6162. 3
6162. 4
pull
Entries 46
Mean 164.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.03072
Std Dev 1.04
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6
5
4
3
2
1
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−8
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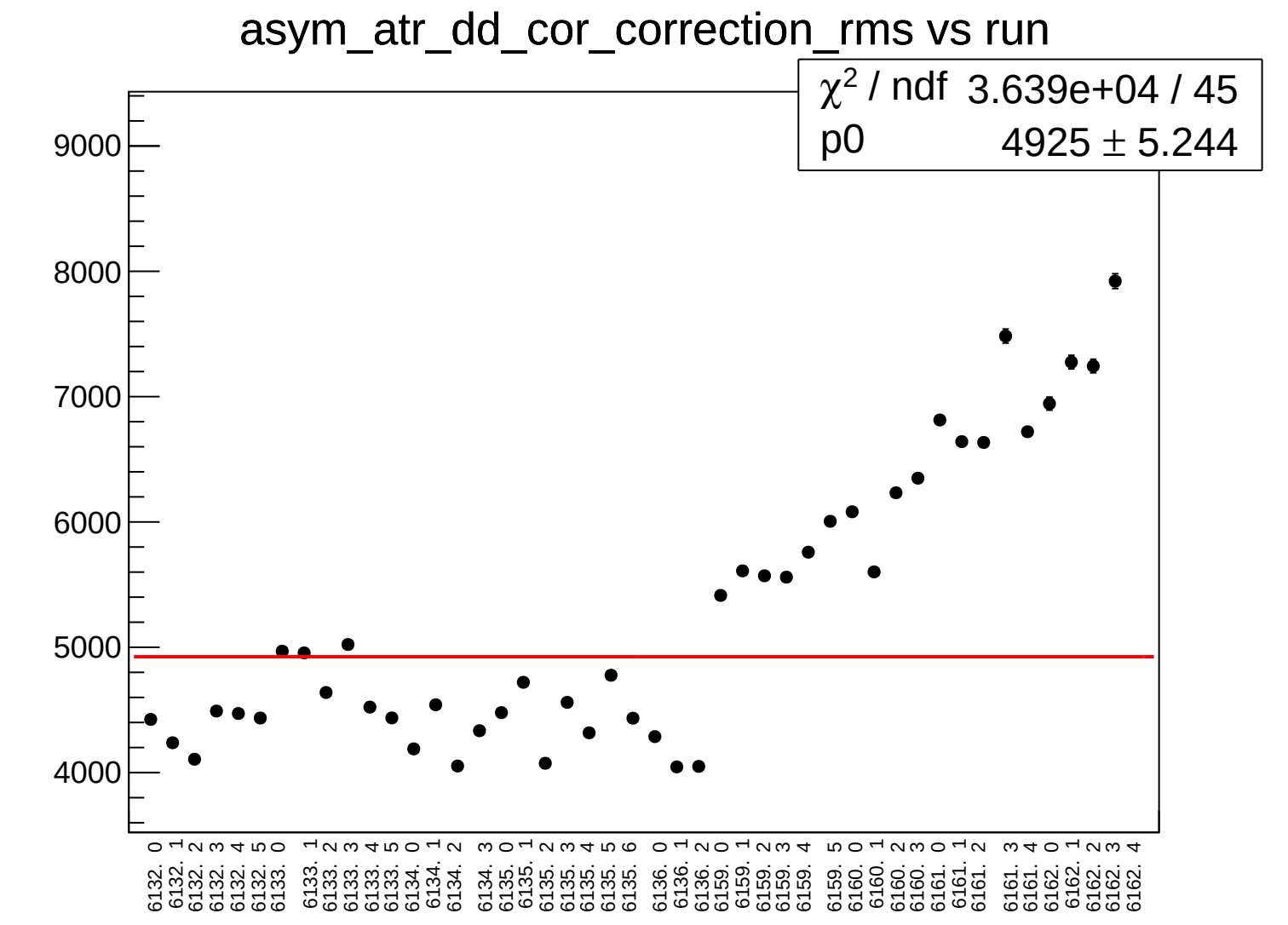
−4
−2
0
2
4
6
8


asym_atr_dd_cor_correction_rms vs run
χ² / ndf 3.639e+04 / 45
p0 4925 ± 5.244
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6134. 2
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6135. 6
6136. 0
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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6161. 4
6162. 0
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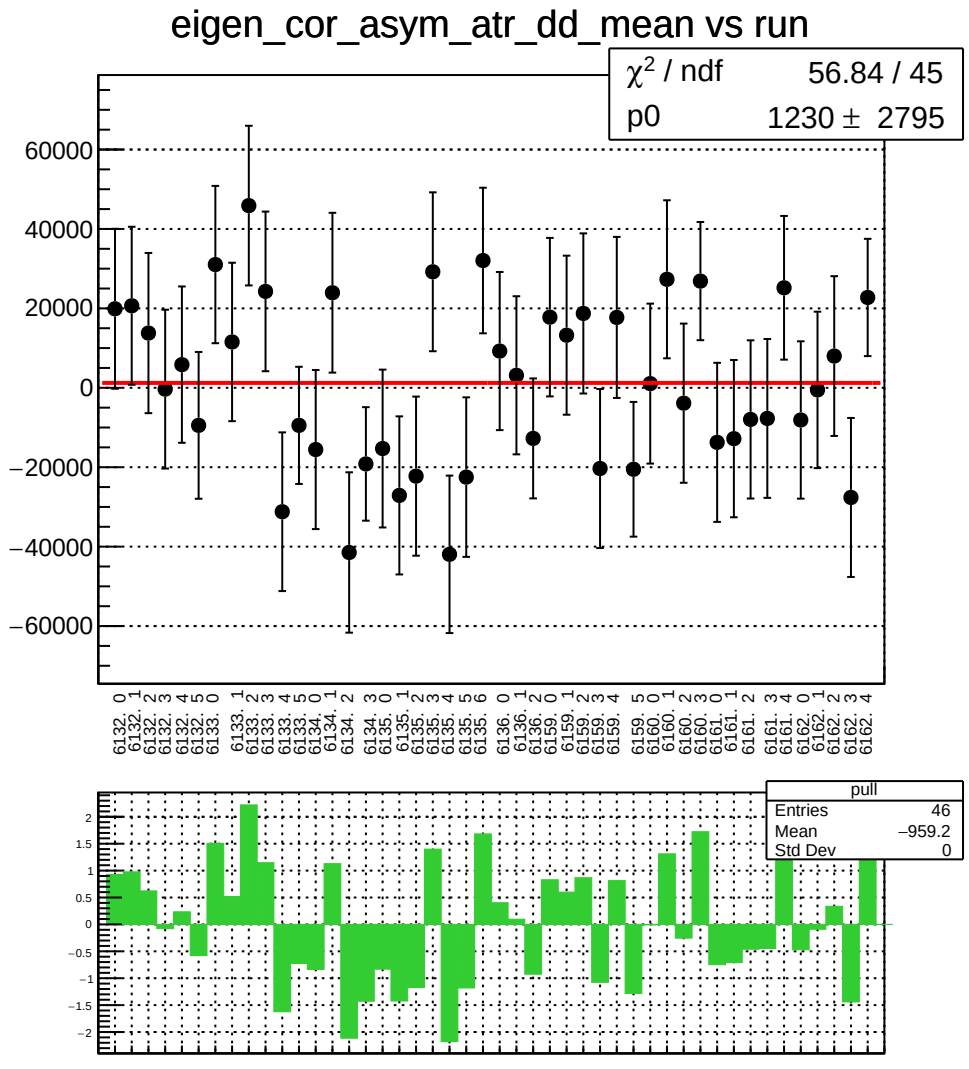
6162. 2
6162. 3
6162. 4


eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 56.84 / 45
p0 1230 ± 2795
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −959.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.0008194
Std Dev 1.112
7
6
5
4
3
2
1
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−8
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−4
−2
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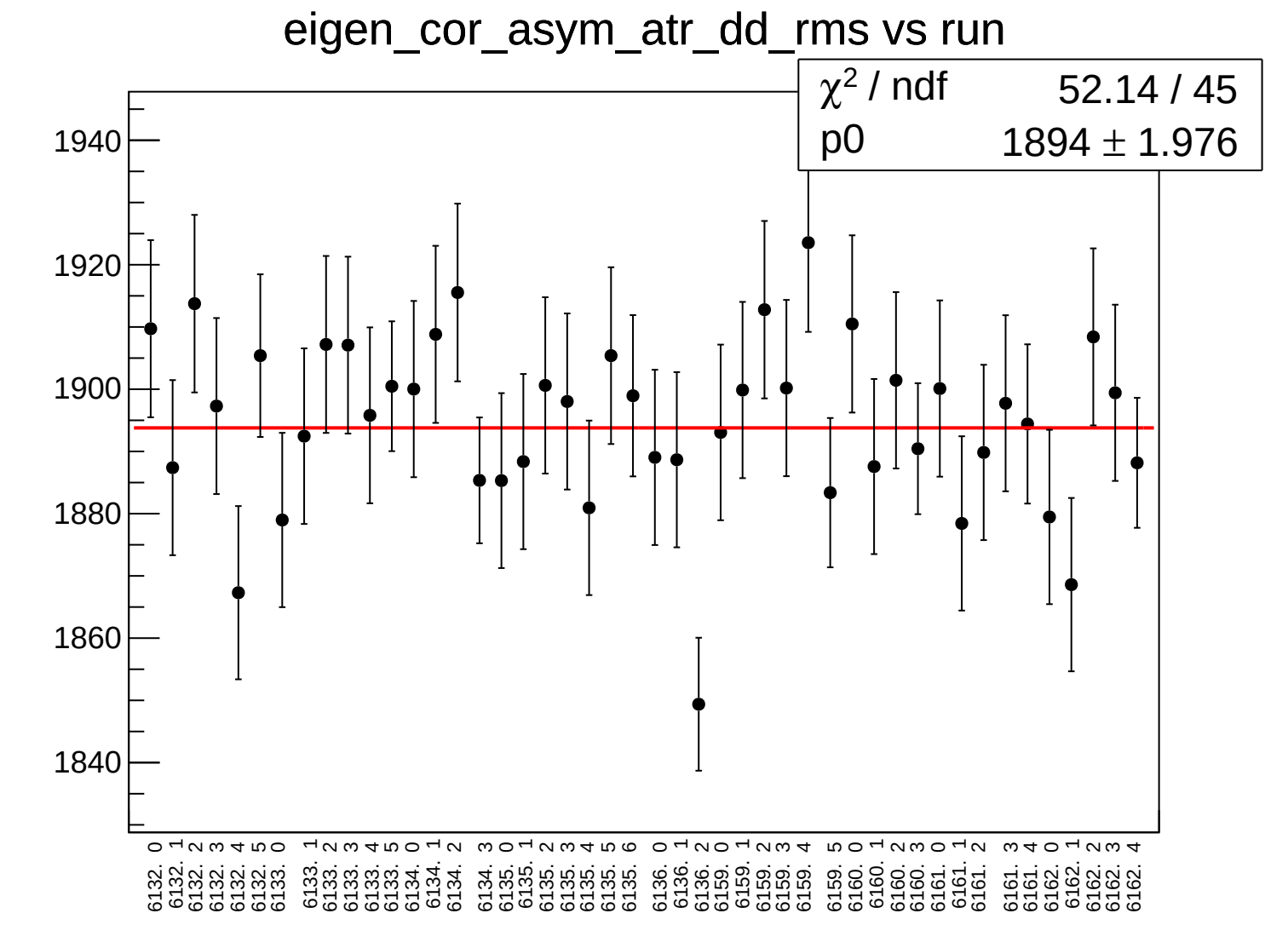
2
4
6
8


eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 52.14 / 45
p0 1894 ± 1.976
1940
1920
1900
1880
1860
1840
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 4
6133. 5
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6134. 2
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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
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
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6161. 4
6162. 0
6162. 1
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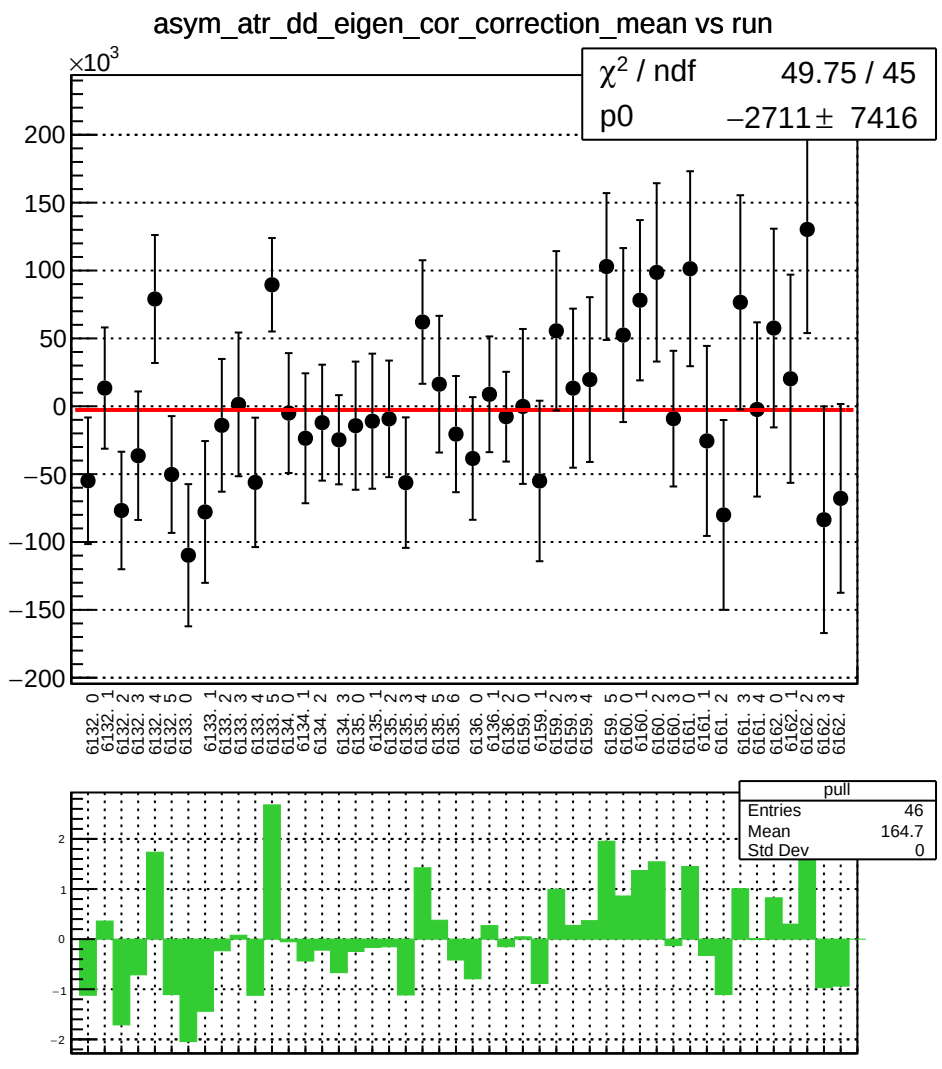
6162. 4


asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 49.75 / 45
p0 −2711 ± 7416
200
150
100
50
0
−50
−100
−150
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
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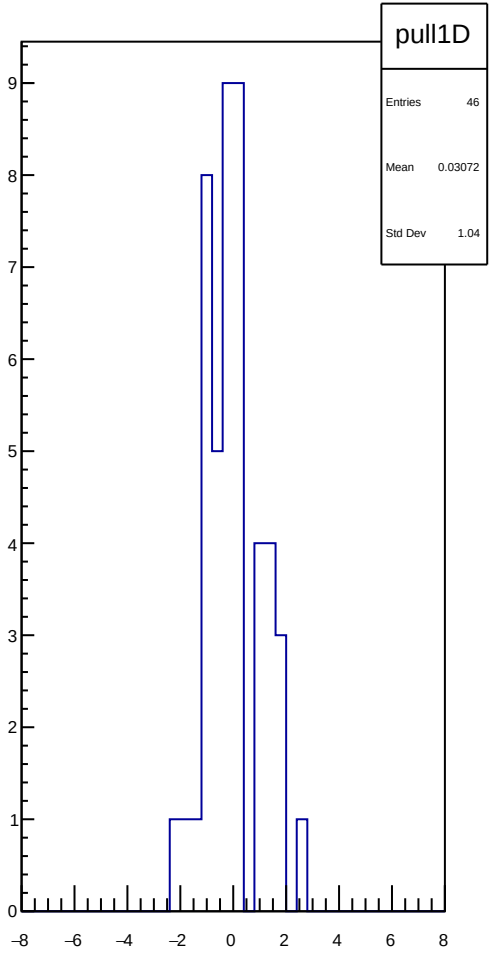
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 164.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.03072
Std Dev 1.04
9
8
7
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5
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1
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−4
−2
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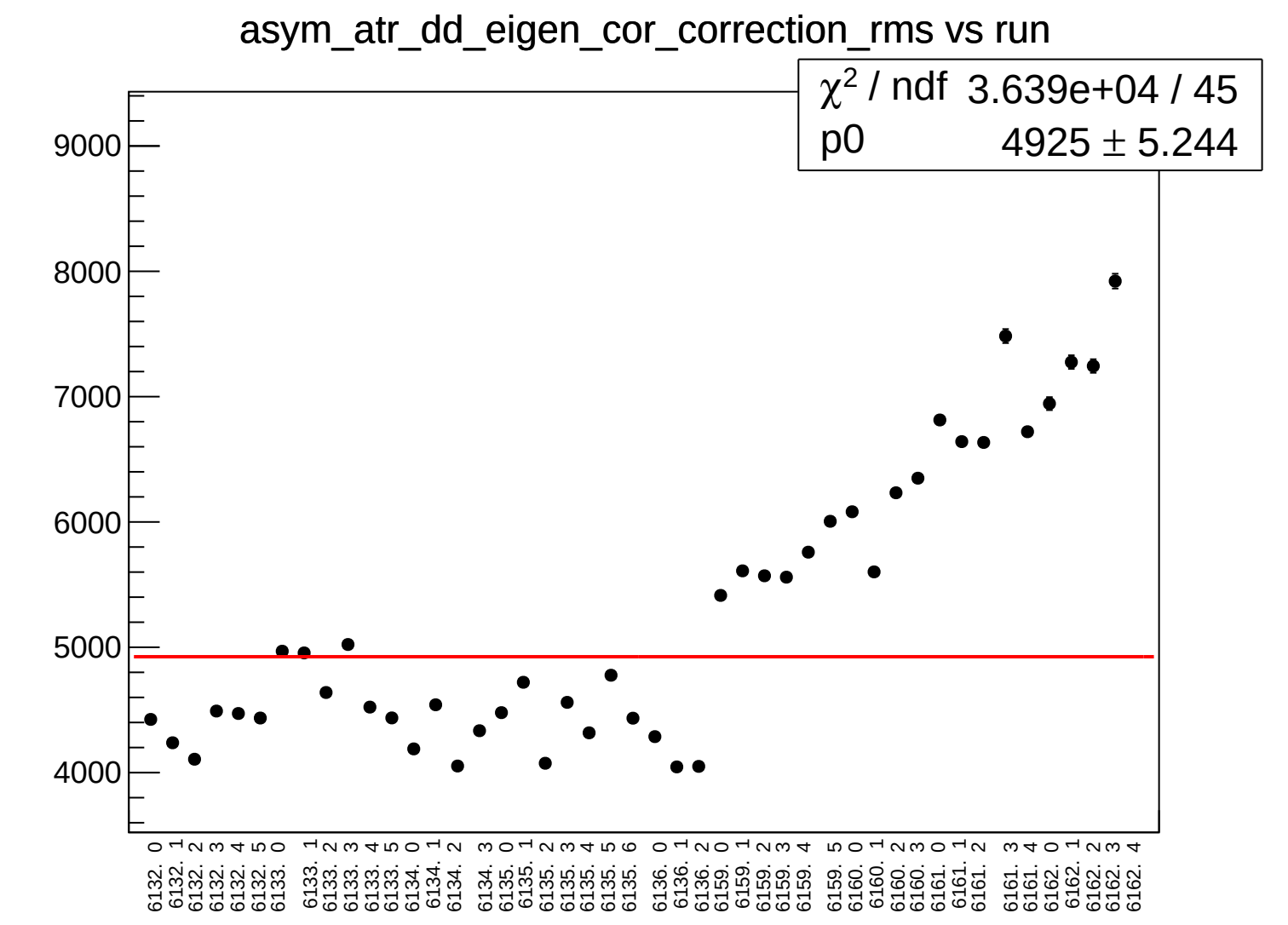
2
4
6
8


asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.639e+04 / 45
p0 4925 ± 5.244
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 3
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6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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6162. 0
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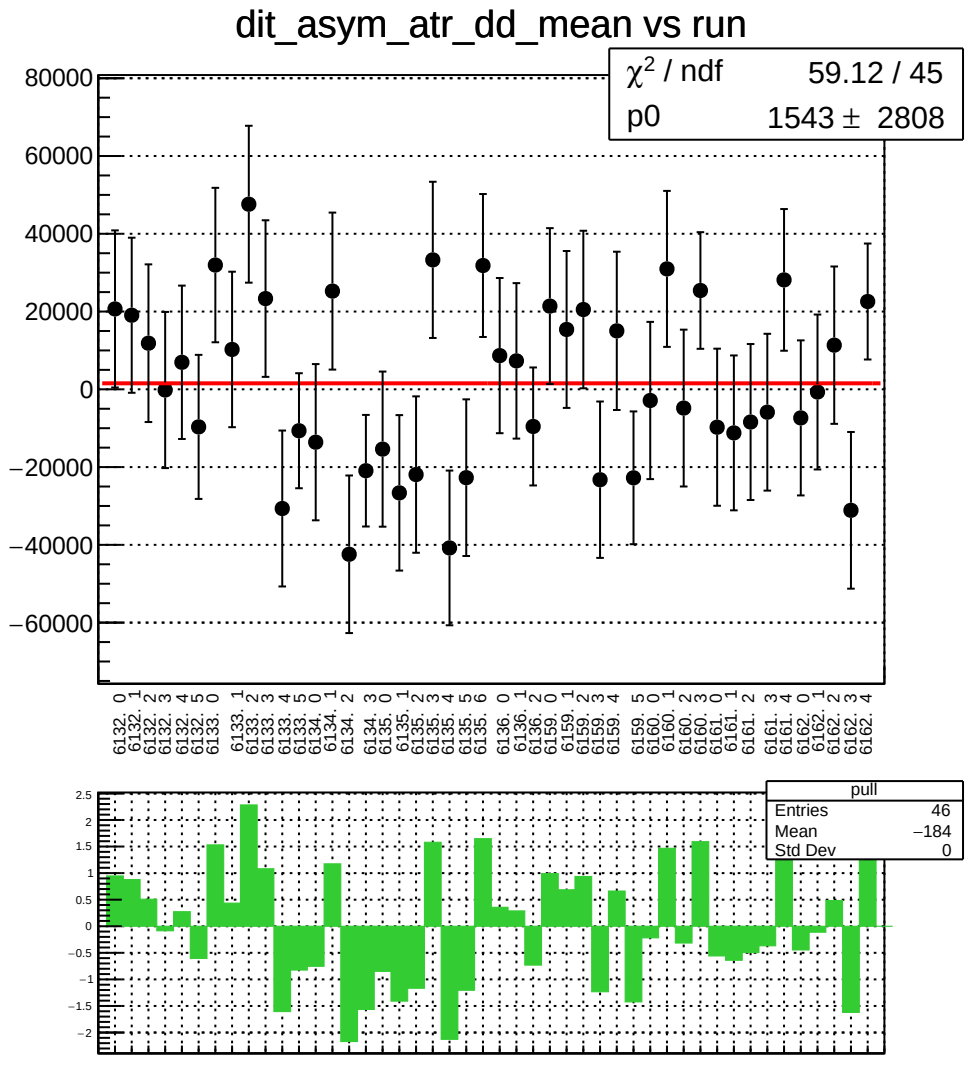
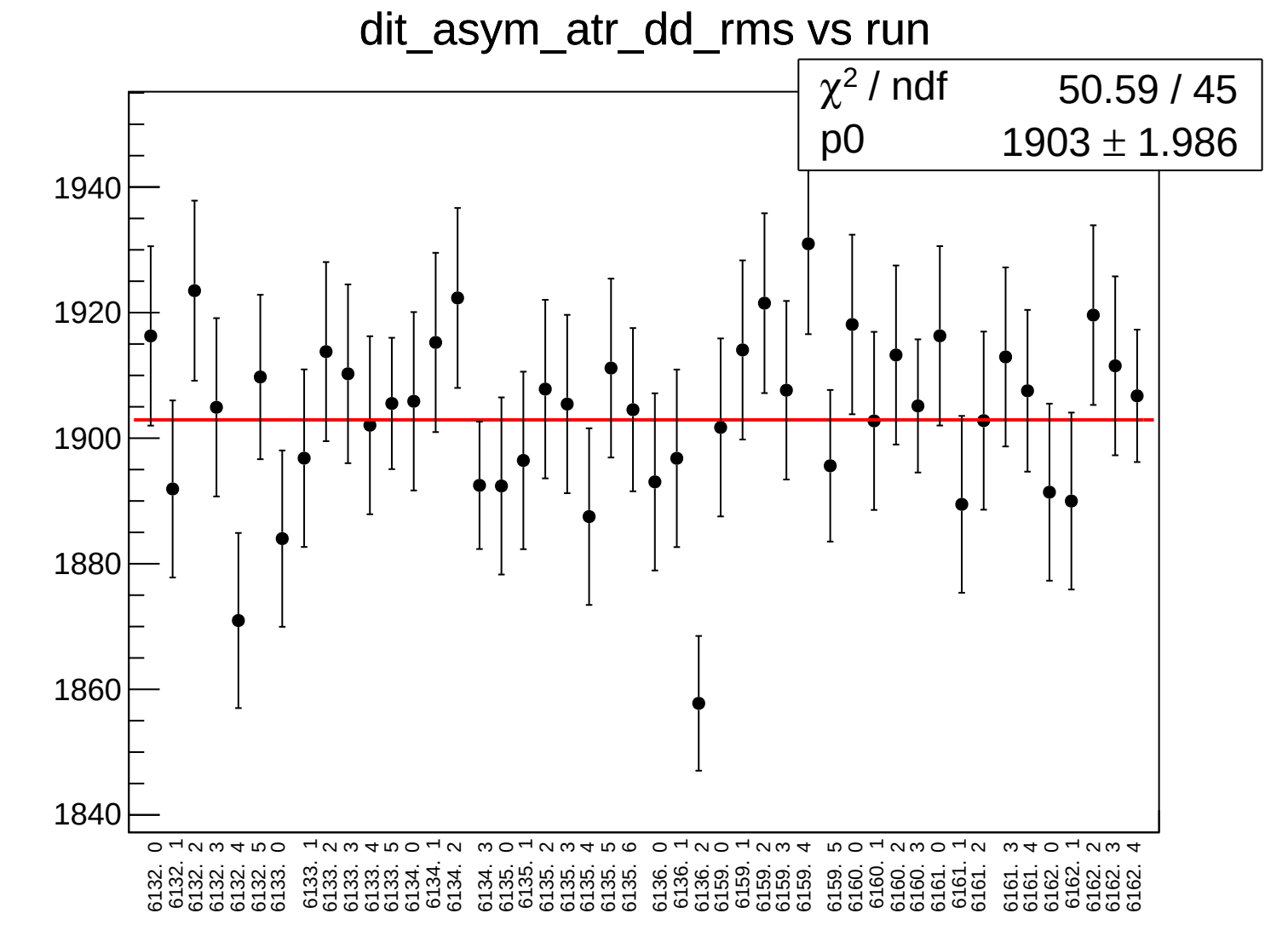

dit_asym_atr_dd_mean vs run
χ² / ndf 59.12 / 45
p0 1543 ± 2808
pull
Entries 46
Mean −184
Std Dev 0
pull1D
Entries 46
Mean 0.003265
Std Dev 1.134


dit_asym_atr_dd_rms vs run
χ² / ndf 50.59 / 45
p0 1903 ± 1.986
1940
1920
1900
1880
1860
1840
6132. 0
6132. 1
6132. 2
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6132. 4
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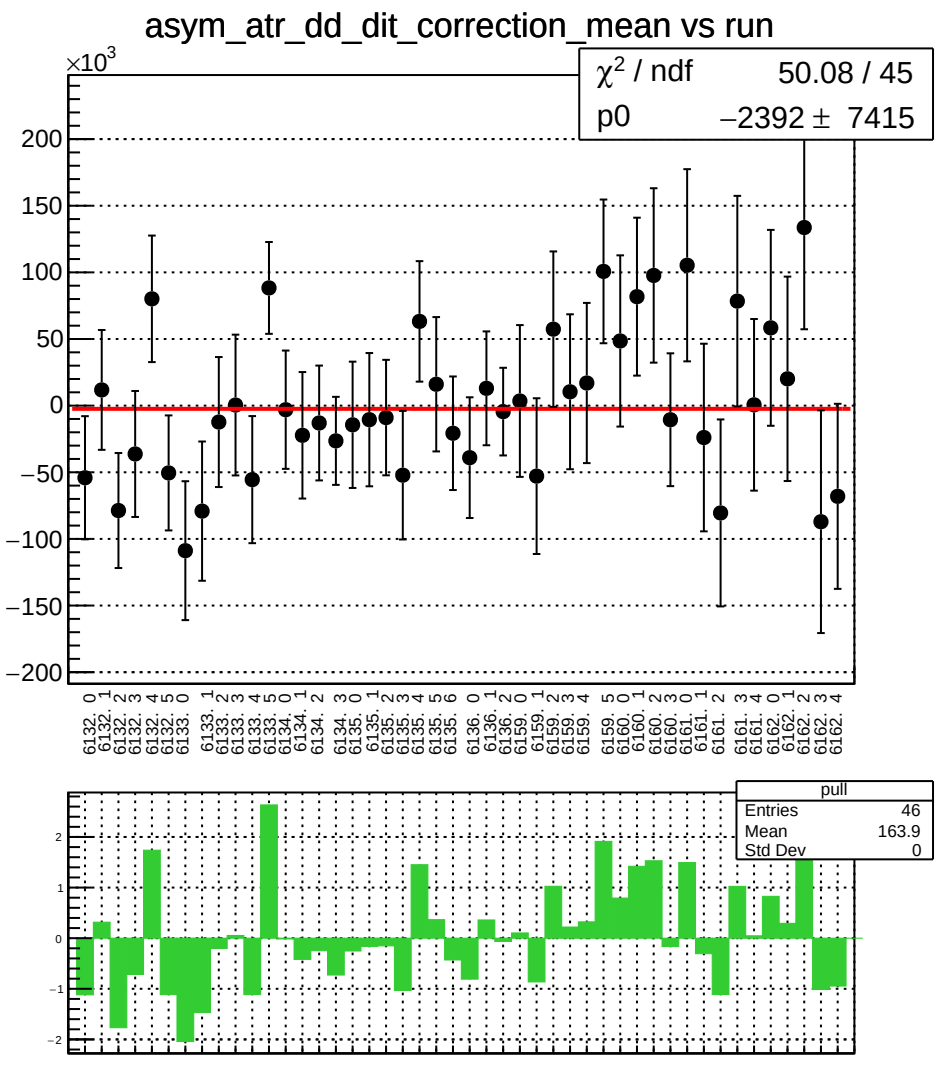
asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 50.08 / 45
p0 −2392 ± 7415
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150
100
50
0
−50
−100
−150
−200
6132. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6134. 2
6134. 3
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6135. 1
6135. 2
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6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
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6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
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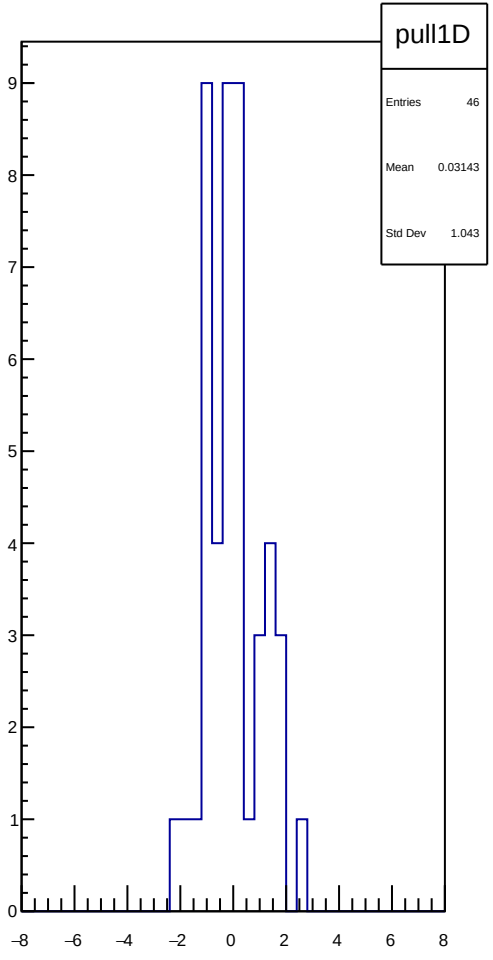
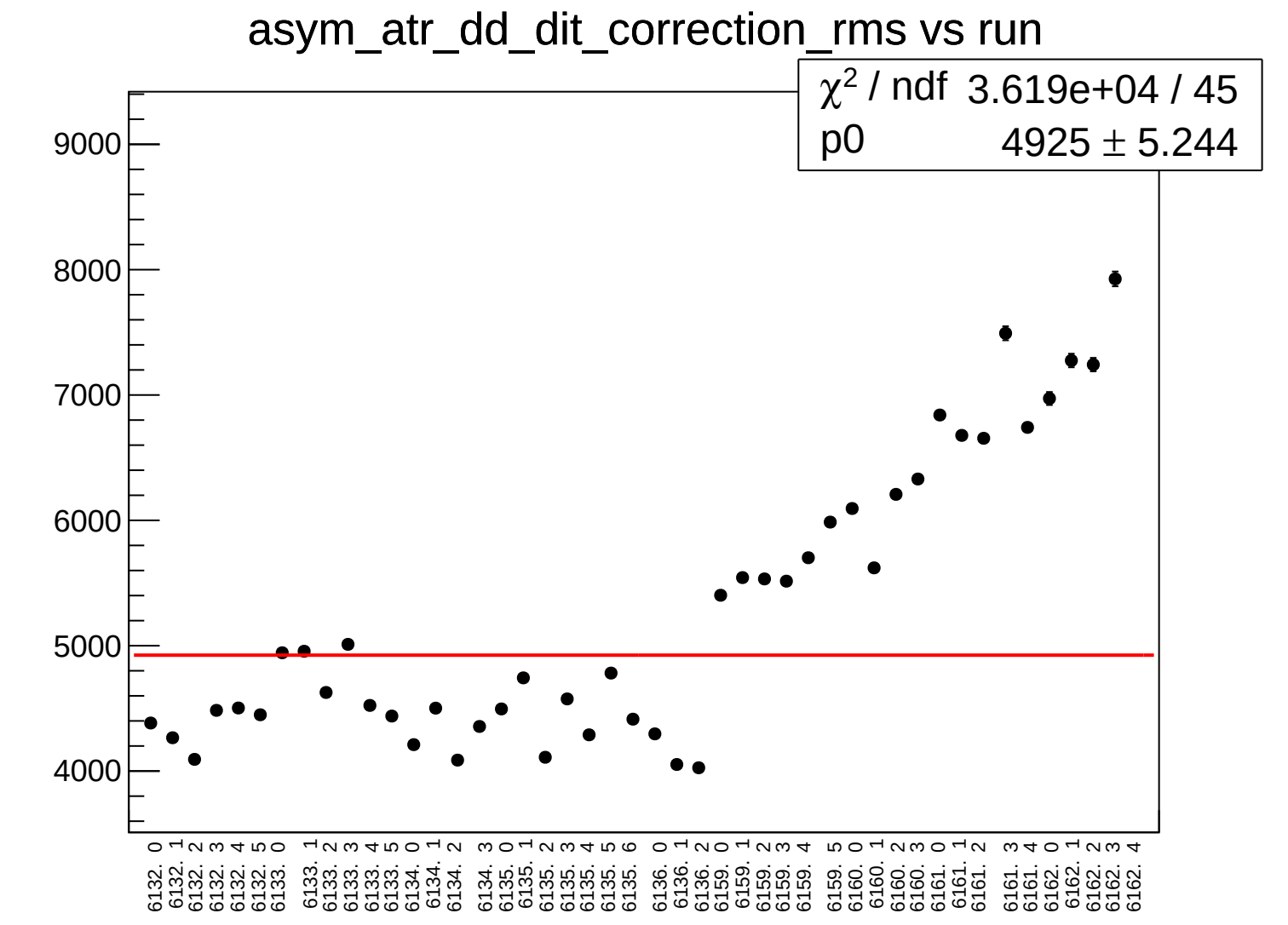
6162. 3
6162. 4
pull
Entries 46
Mean 163.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.03143
Std Dev 1.043
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_dd_dit_correction_rms vs run
χ² / ndf 3.619e+04 / 45
p0 4925 ± 5.244
9000
8000
7000
6000
5000
4000
6132. 0
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6132. 2
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6132. 5
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6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
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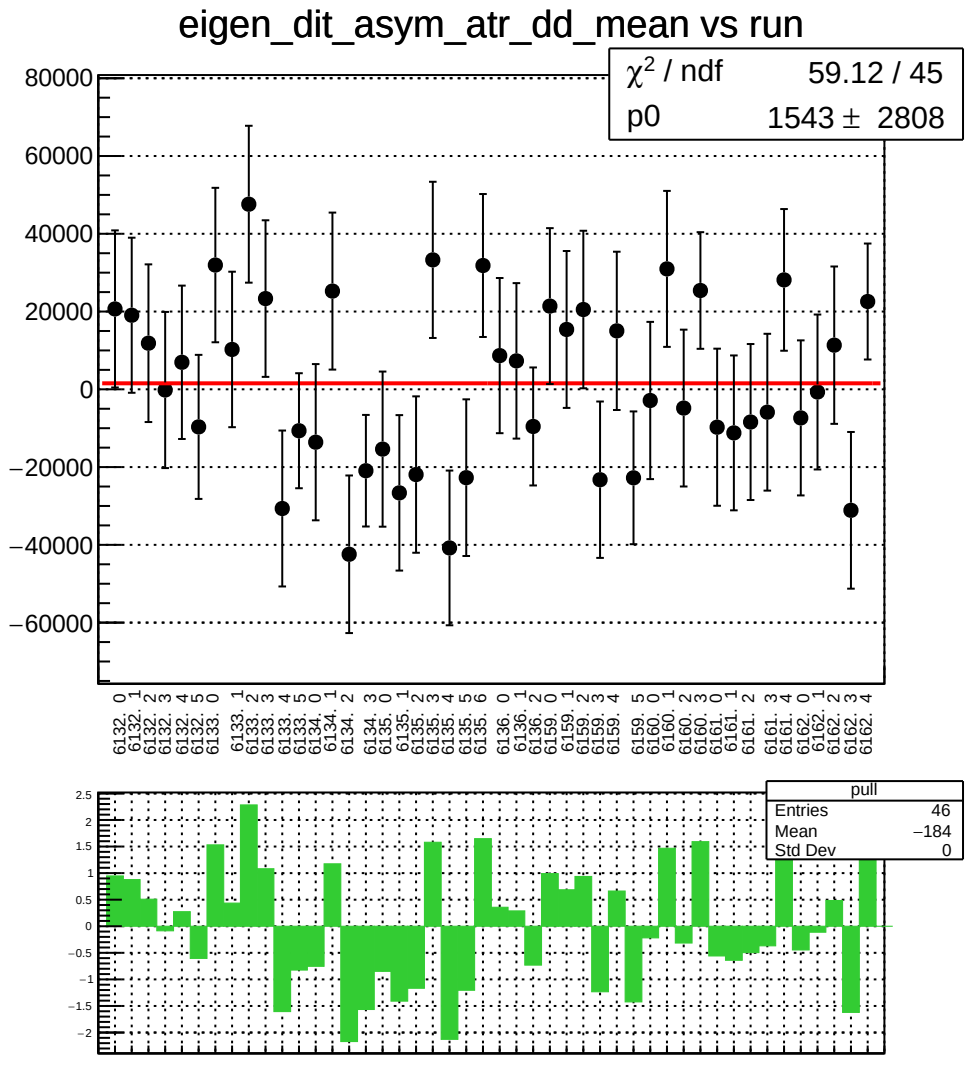
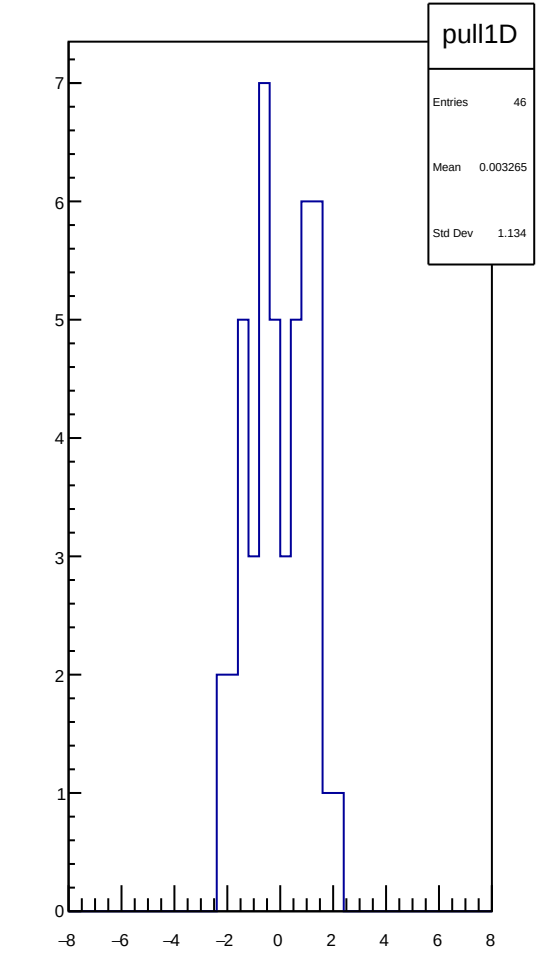
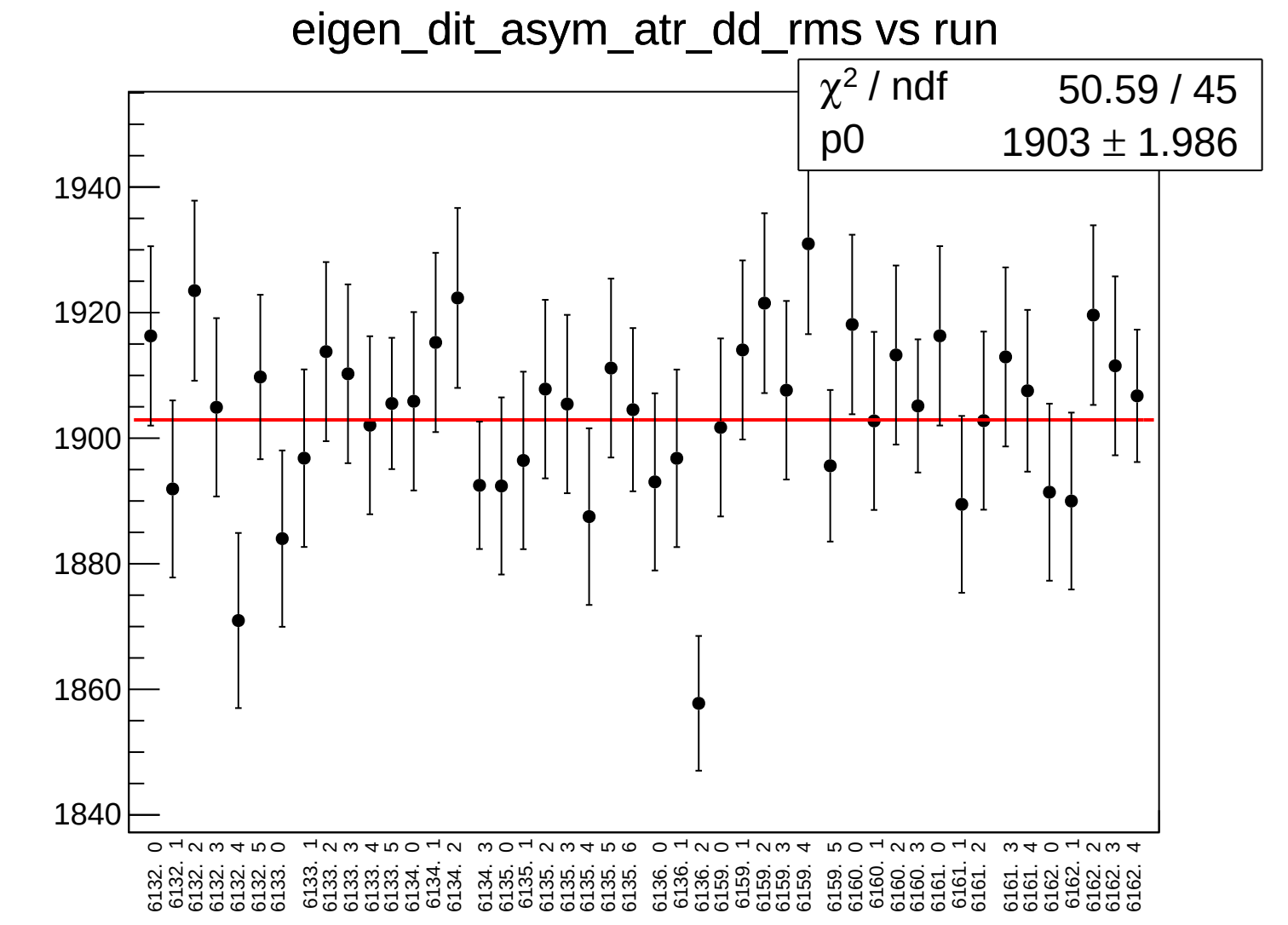
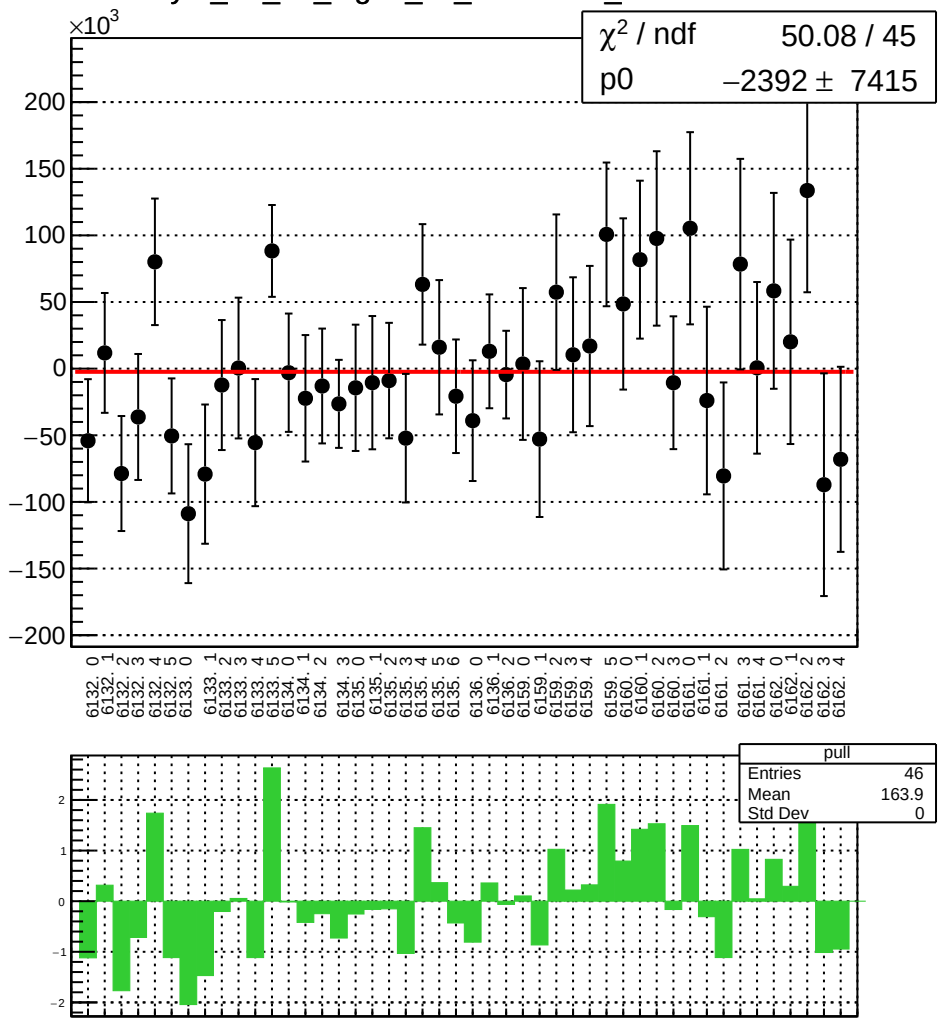
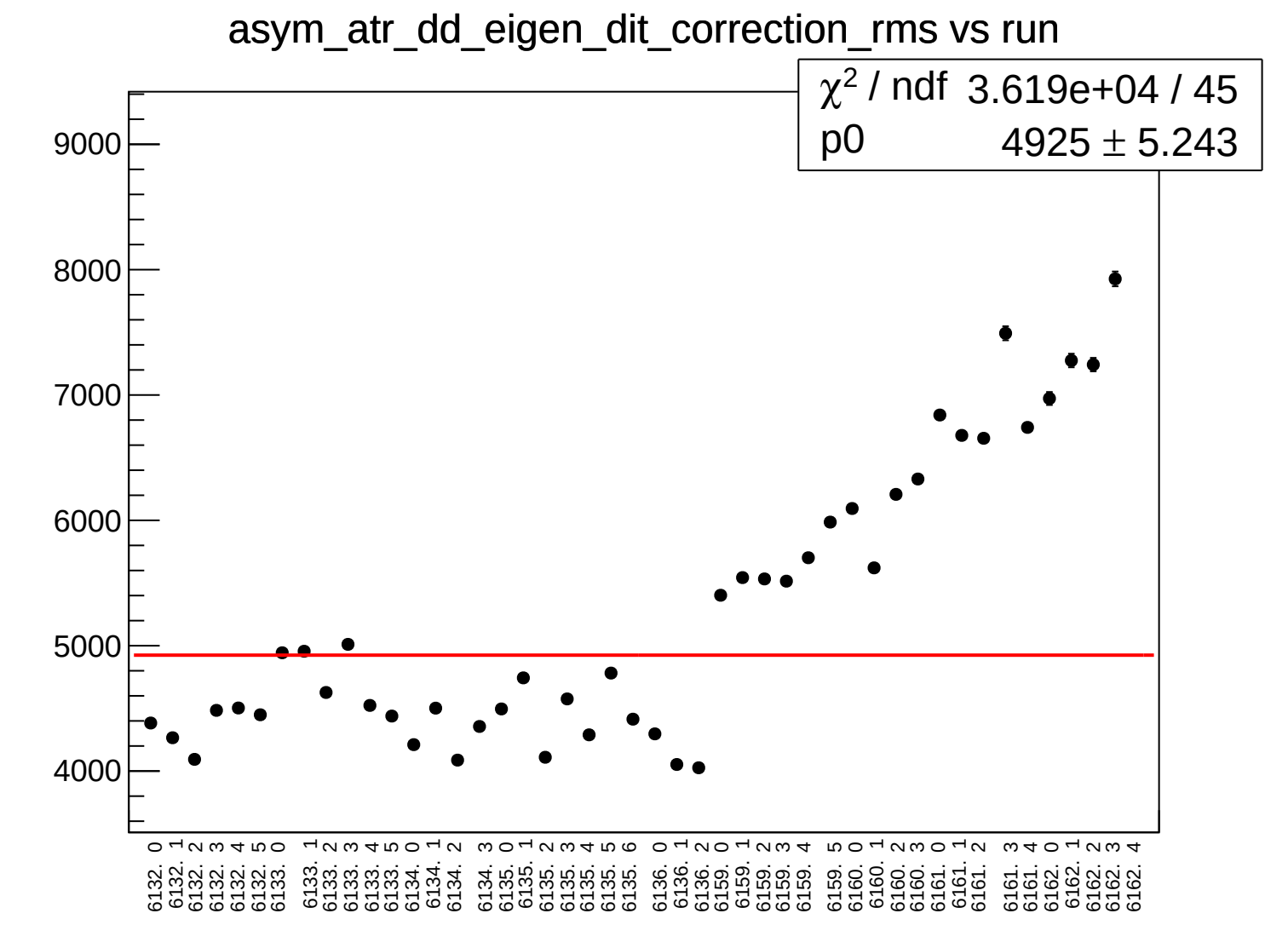
6162. 3
6162. 4

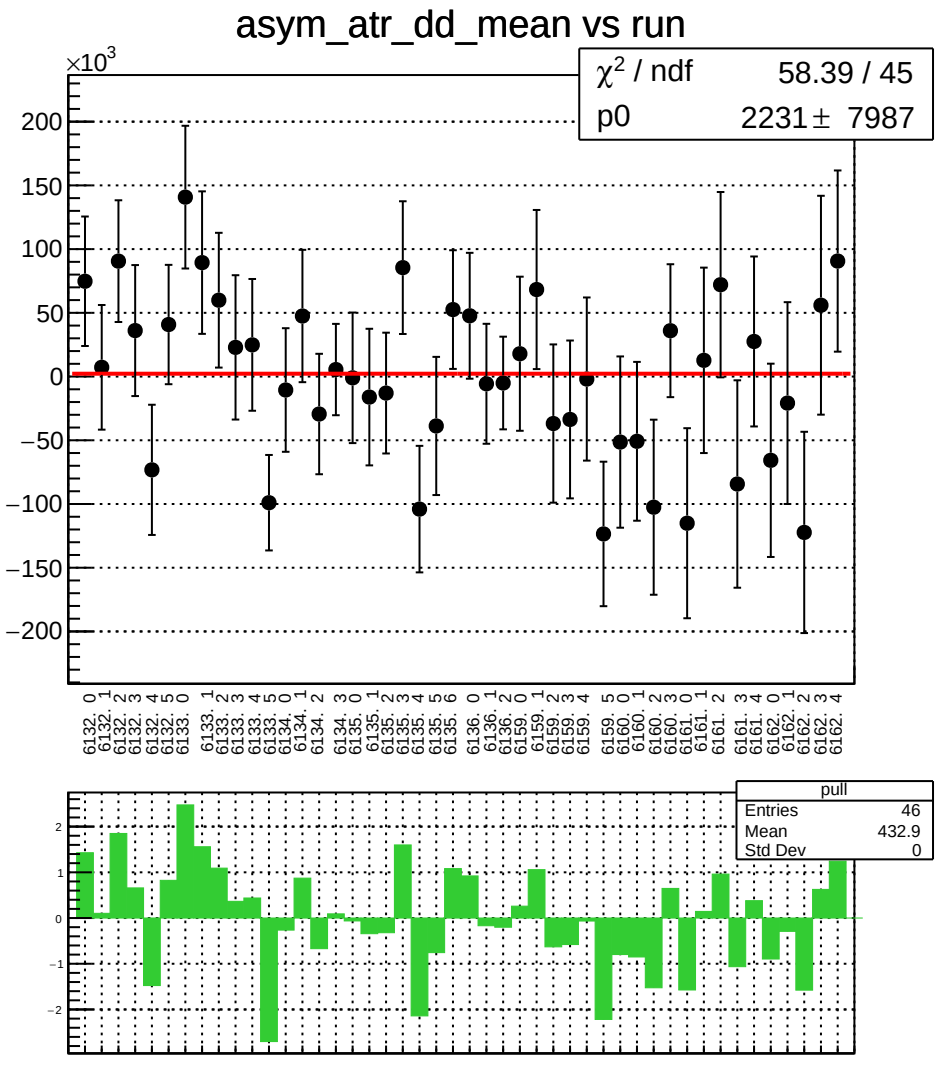

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 59.12 / 45
p0 1543 ± 2808
pull
Entries 46
Mean −184
Std Dev 0

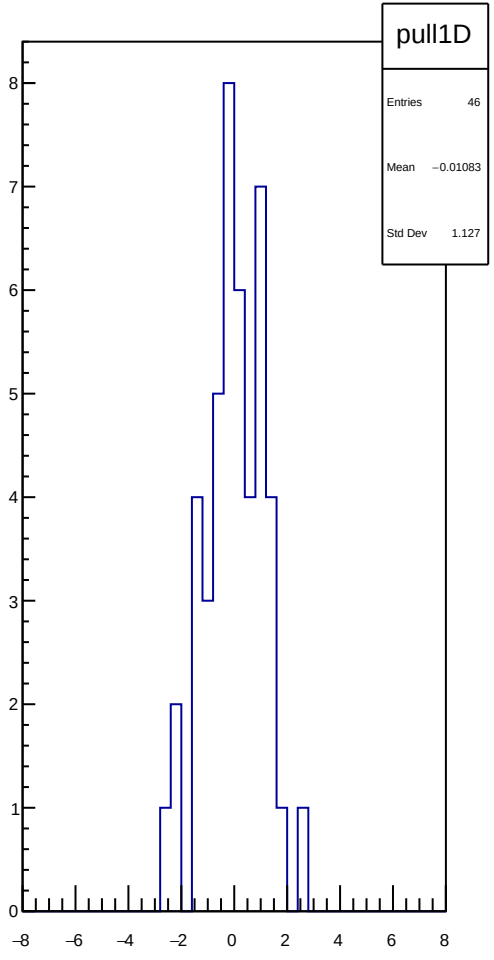

pull1D
Entries 46
Mean 0.003265
Std Dev 1.134

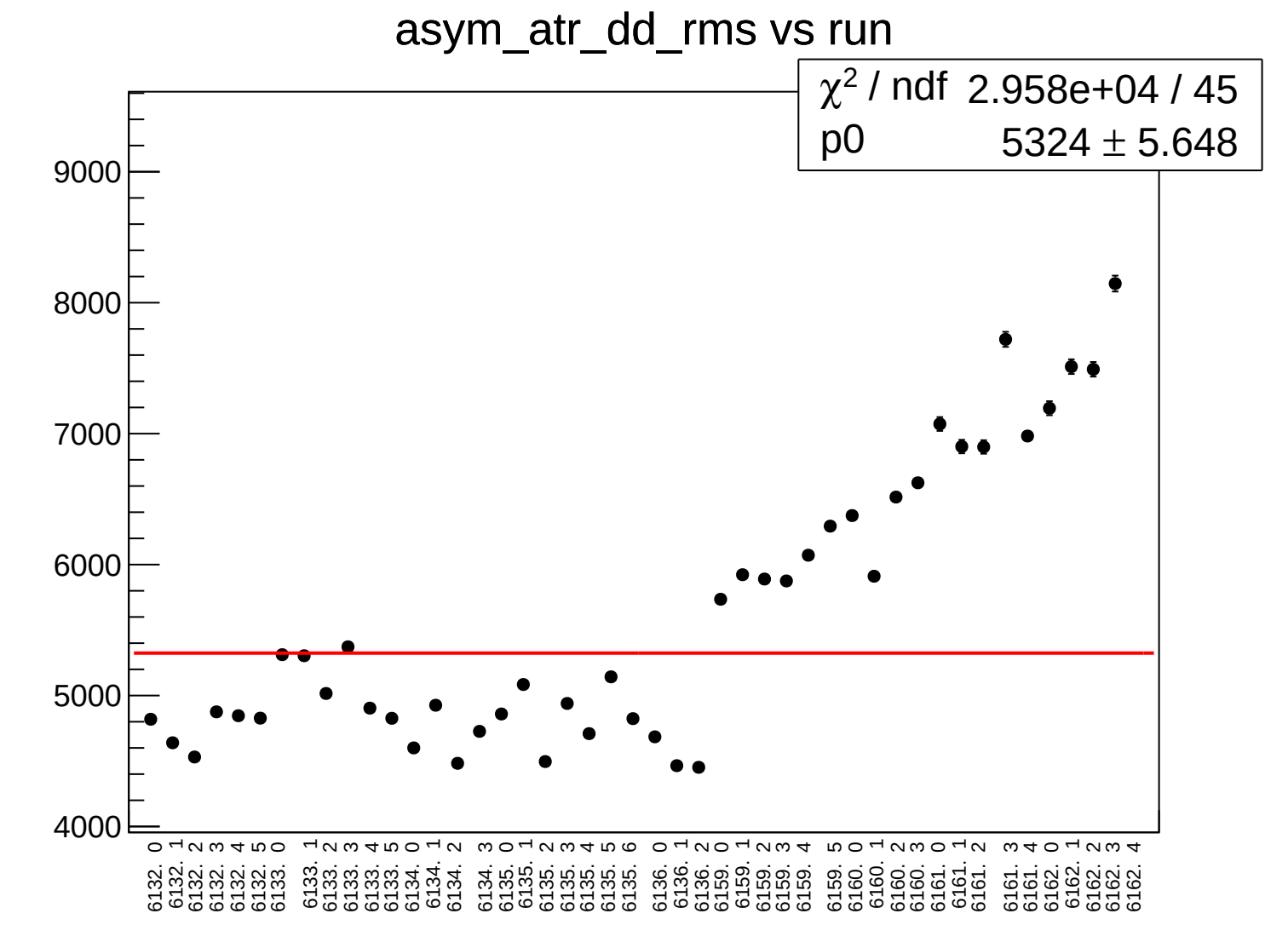

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 50.59 / 45
p0 1903 ± 1.986
1940
1920
1900
1880
1860
1840
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

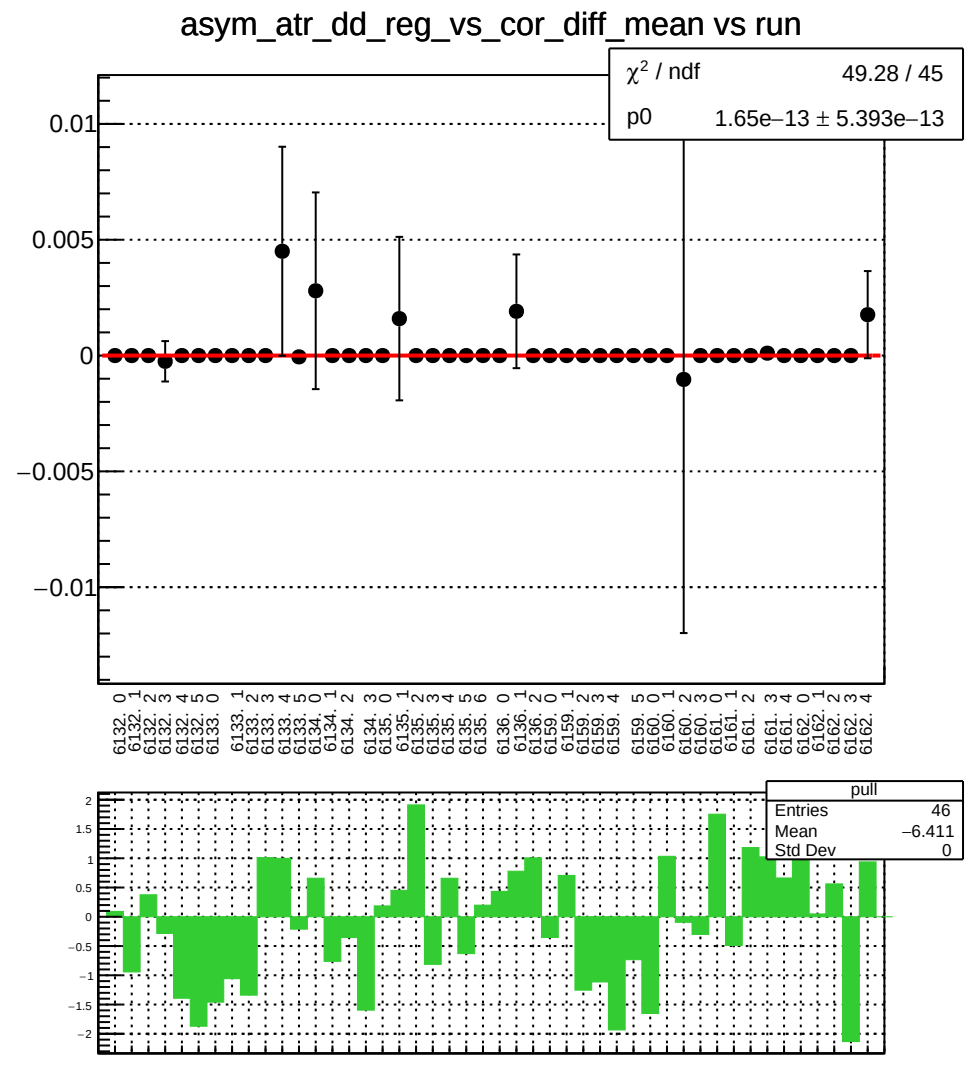

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 50.08 / 45
p0 −2392 ± 7415
200
150
100
50
0
−50
−100
−150
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 163.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.03143
Std Dev 1.043
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

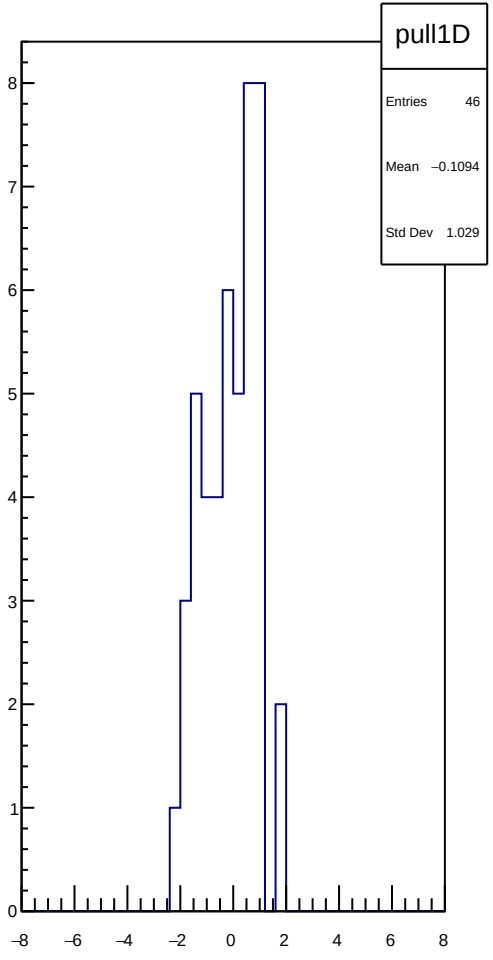

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.619e+04 / 45
p0 4925 ± 5.243
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

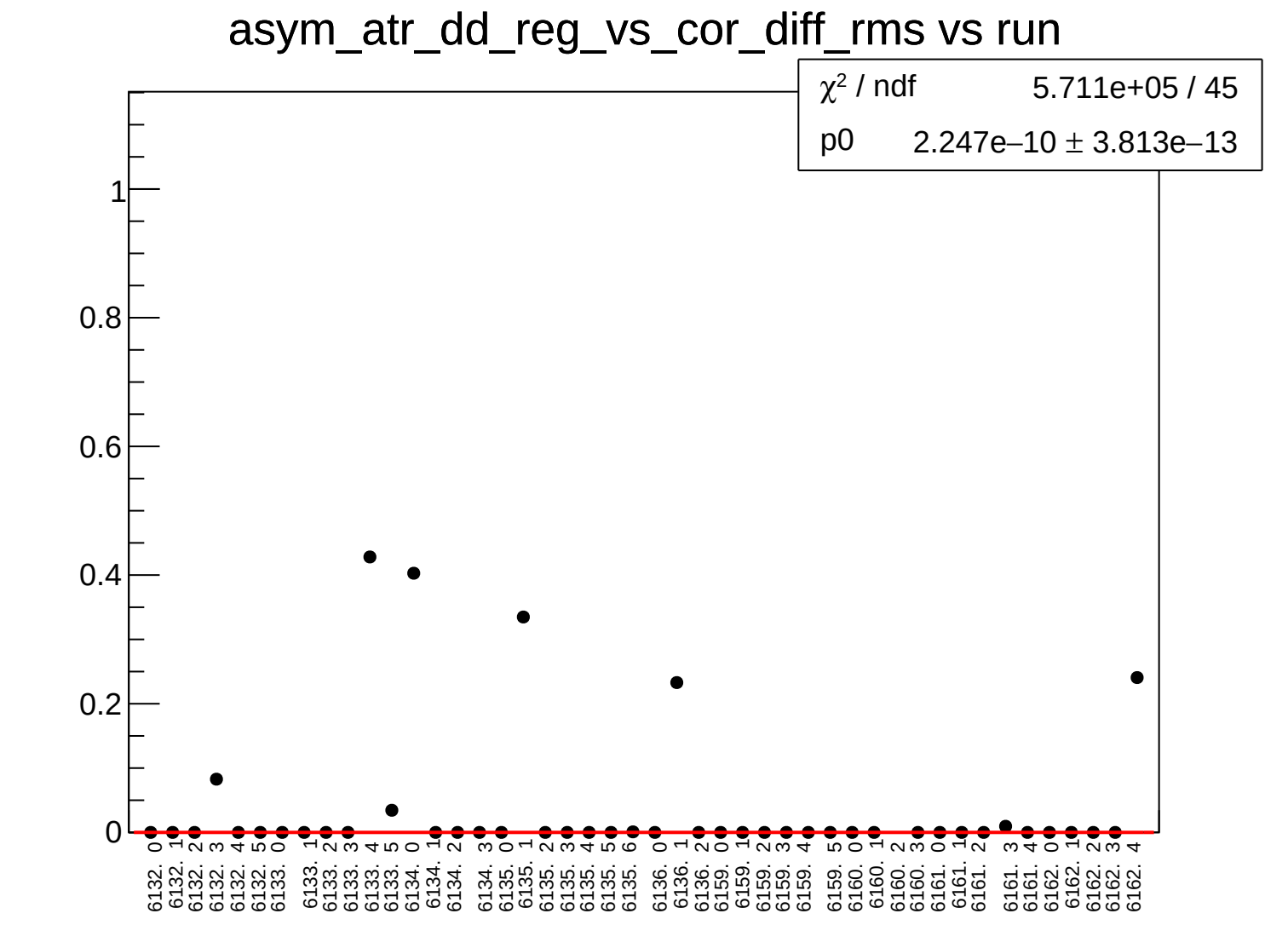

asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 58.39 / 45
p0 2231 ± 7987
200
150
100
50
0
−50
−100
−150
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 432.9
Std Dev 0
2
1
0
−1
−2

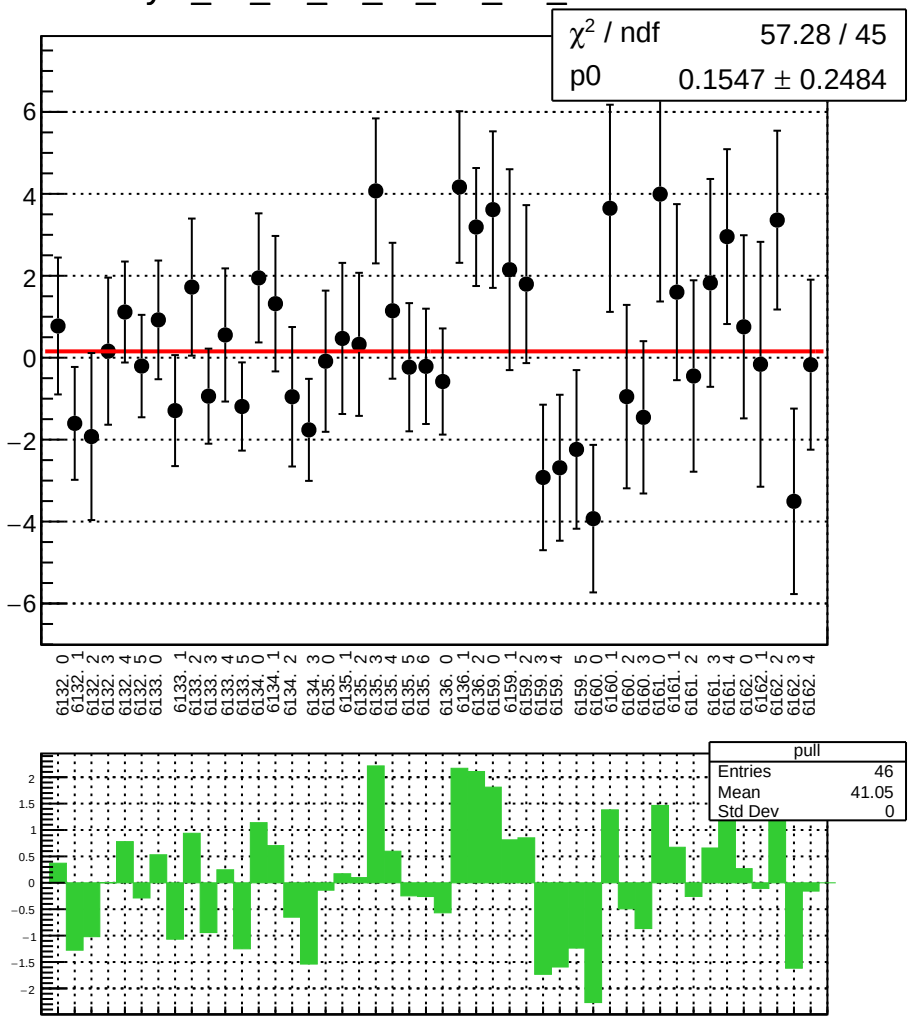

pull1D
Entries 46
Mean −0.01083
Std Dev 1.127
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

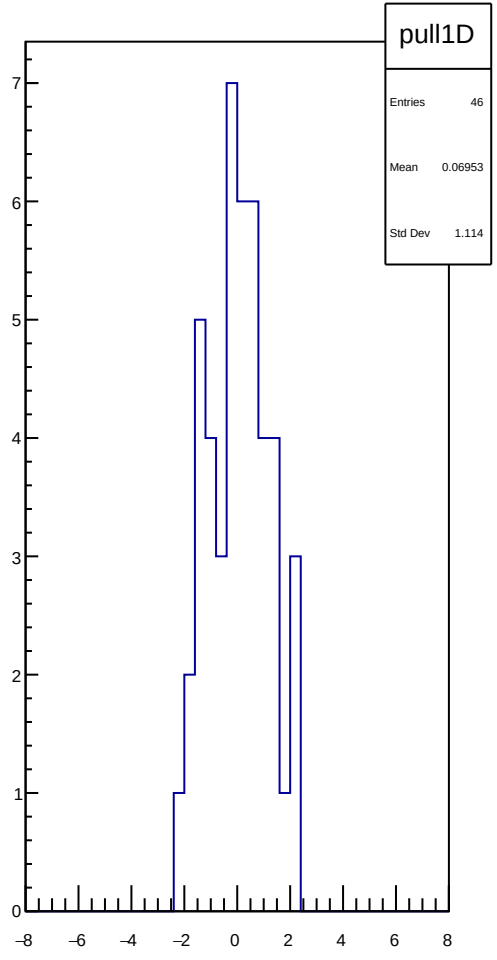

asym_atr_dd_rms vs run
χ² / ndf 2.958e+04 / 45
p0 5324 ± 5.648
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

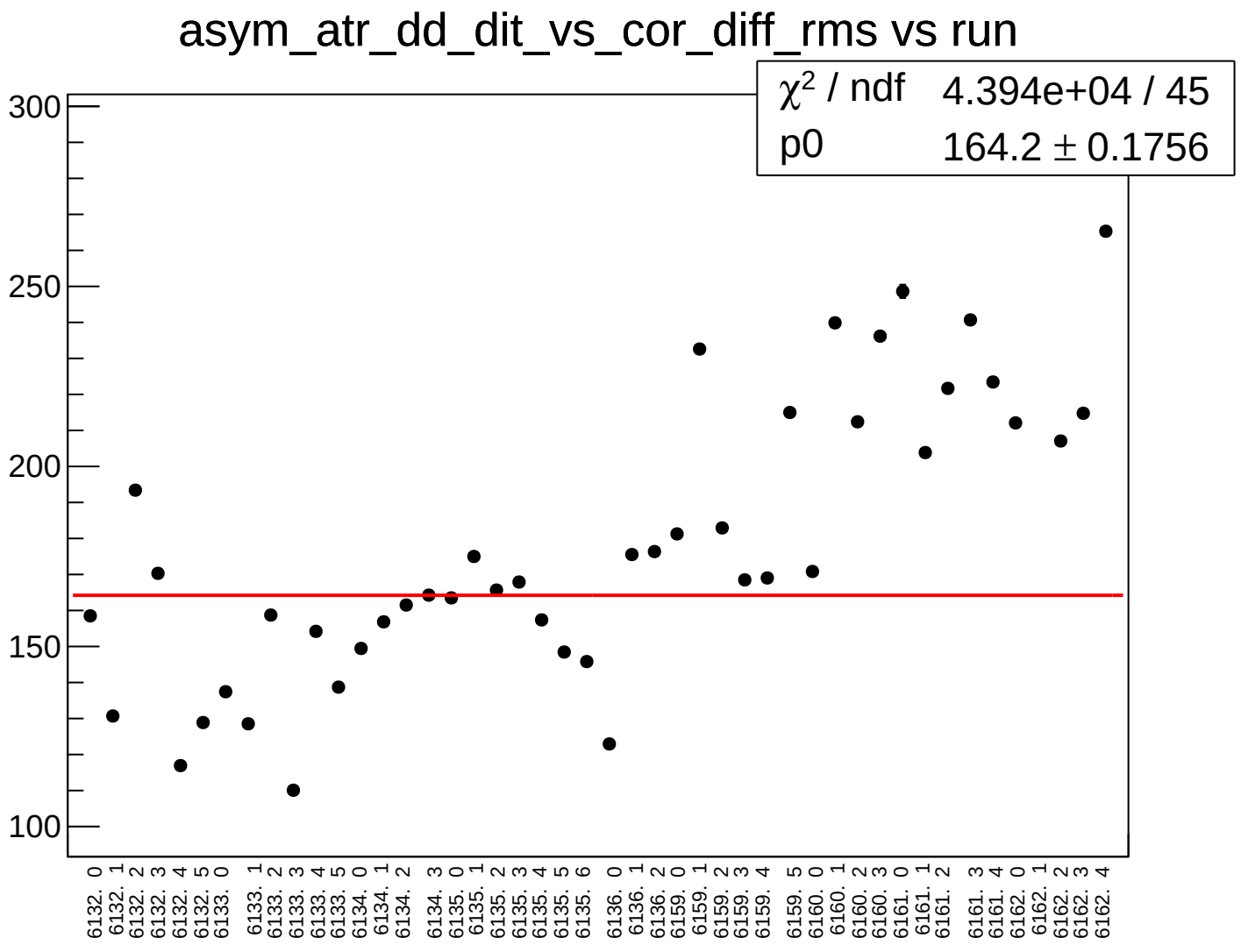

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 49.28 / 45
p0 1.65e−13 ± 5.393e−13
0.01
0.005
0
−0.005
−0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −6.411
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

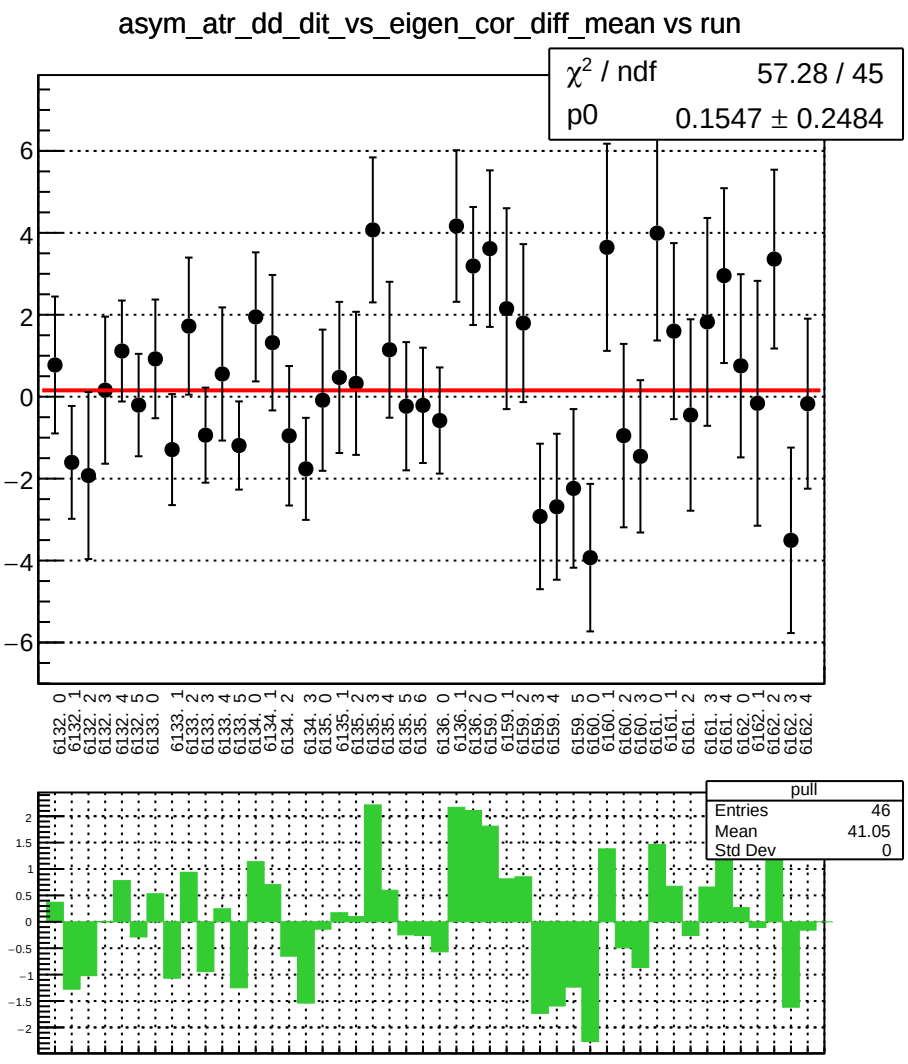

pull1D
Entries 46
Mean −0.1094
Std Dev 1.029
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

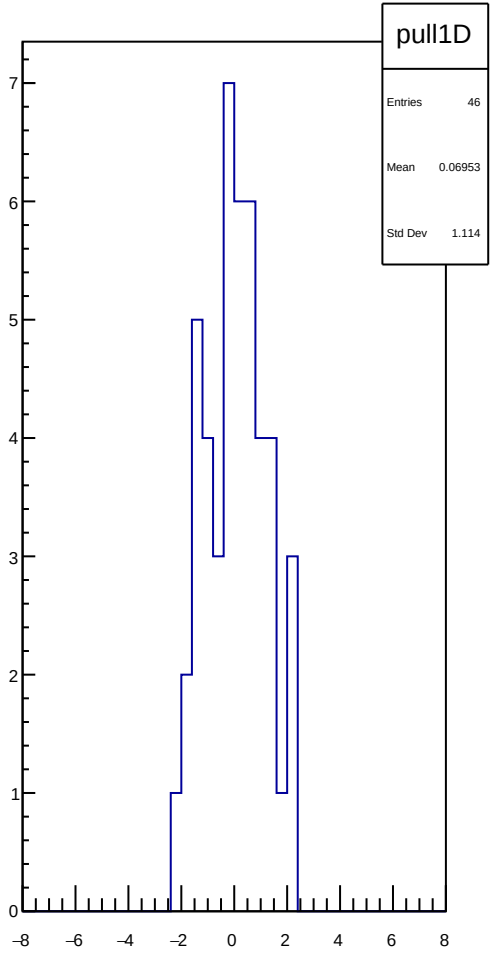

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.711e+05 / 45
p0 2.247e−10 ± 3.813e−13
1
0.8
0.6
0.4
0.2
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

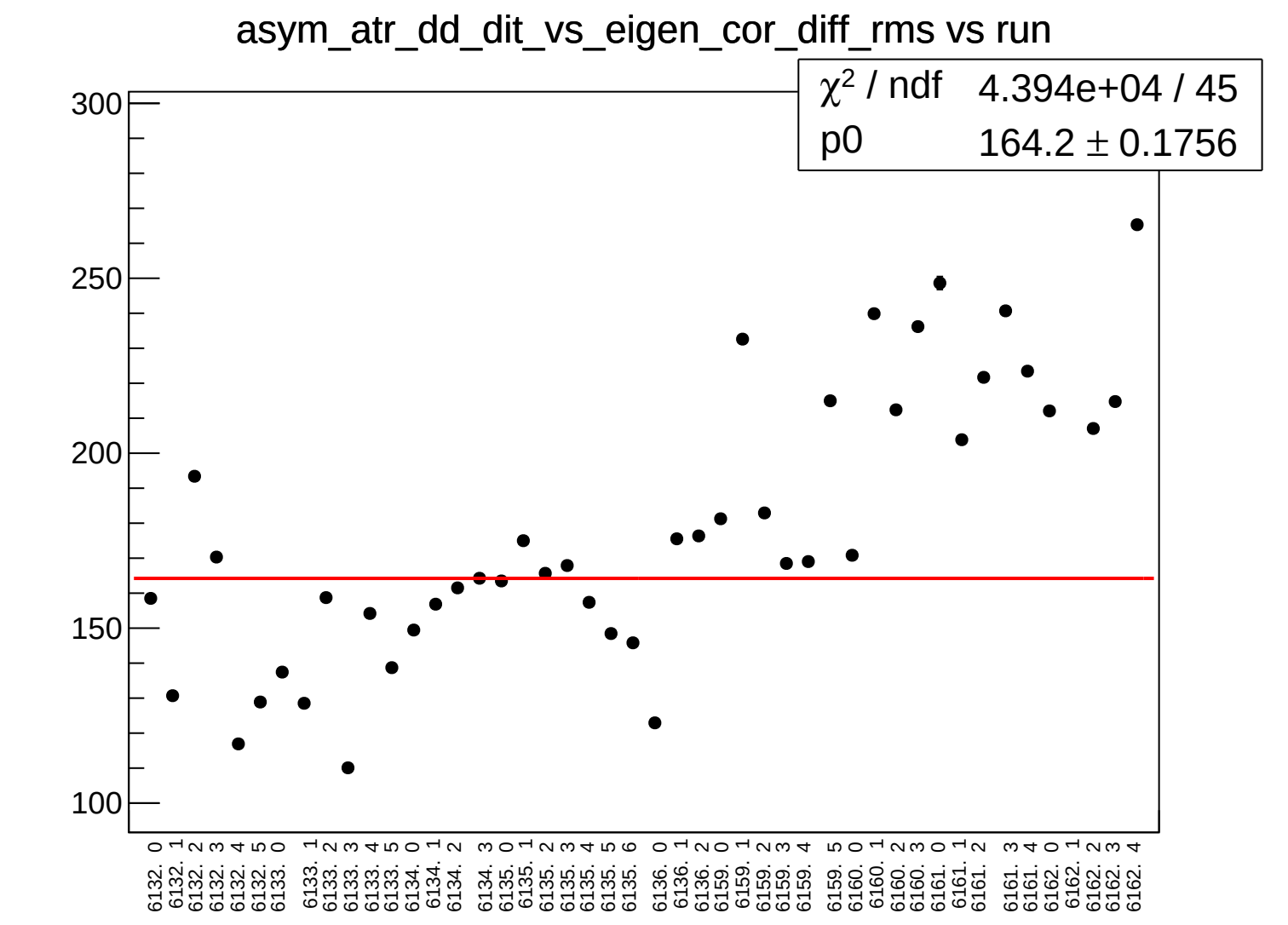

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 57.28 / 45
p0 0.1547 ± 0.2484
pull
Entries 46
Mean 41.05
Std Dev 0

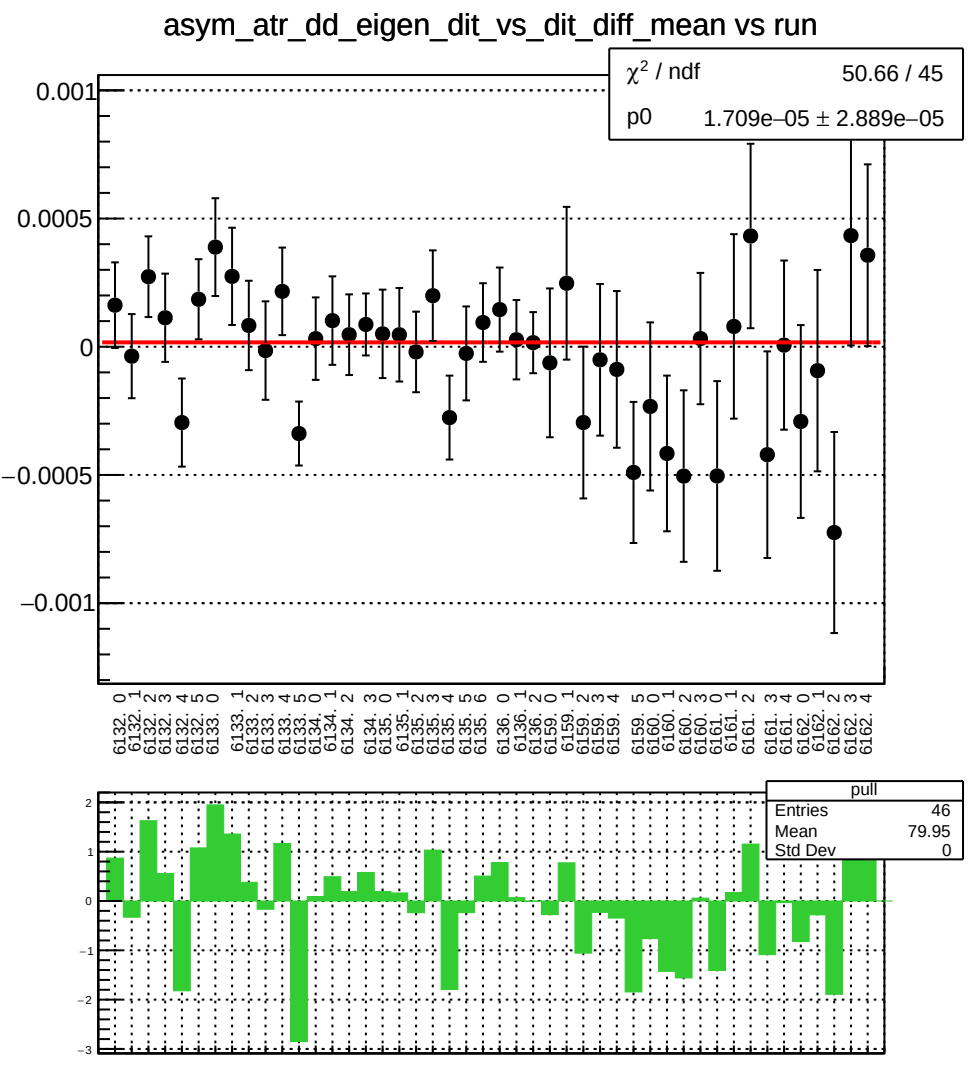

pull1D
Entries 46
Mean 0.06953
Std Dev 1.114

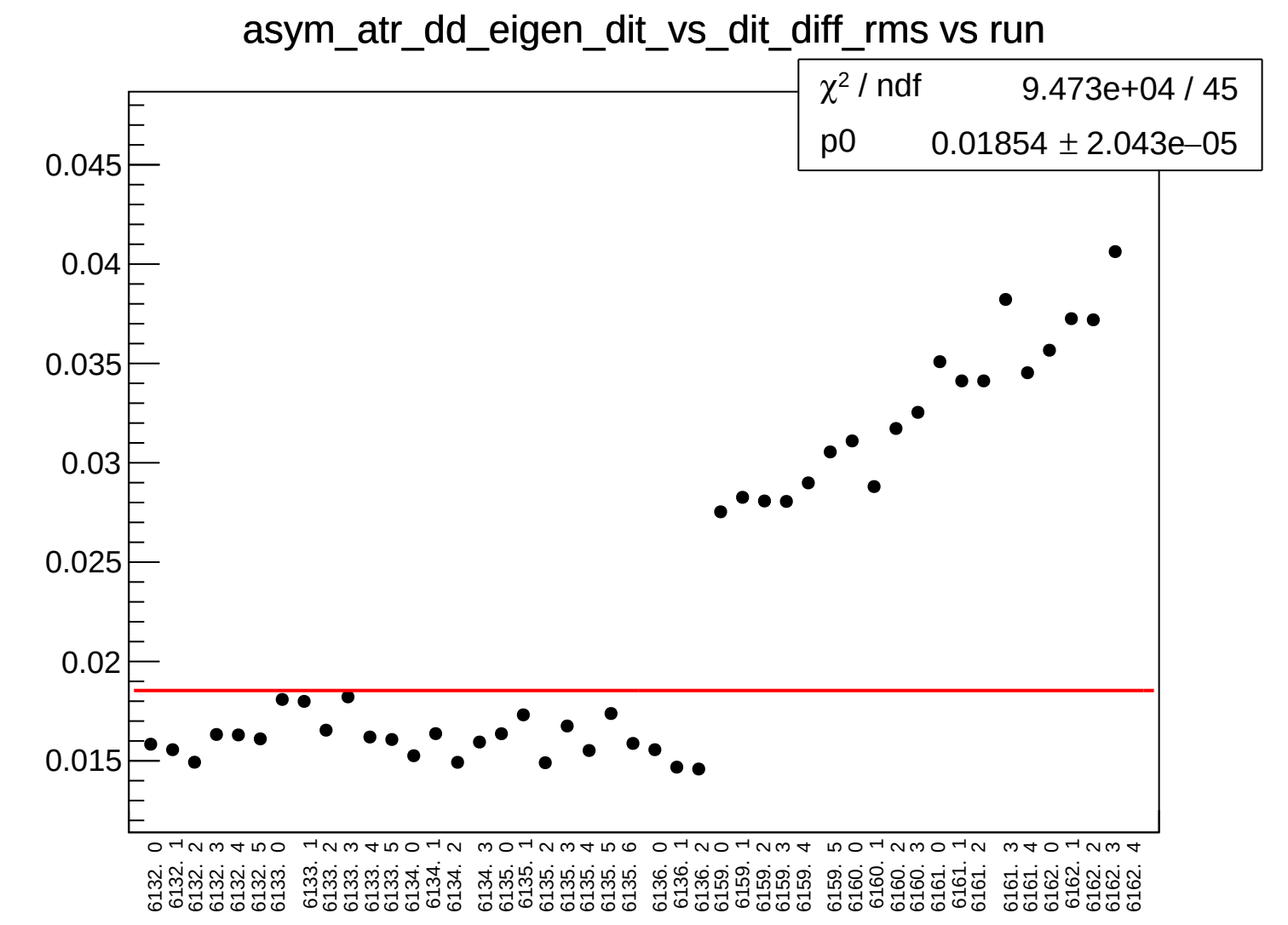

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.394e+04 / 45
p0 164.2 ± 0.1756
300
250
200
150
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

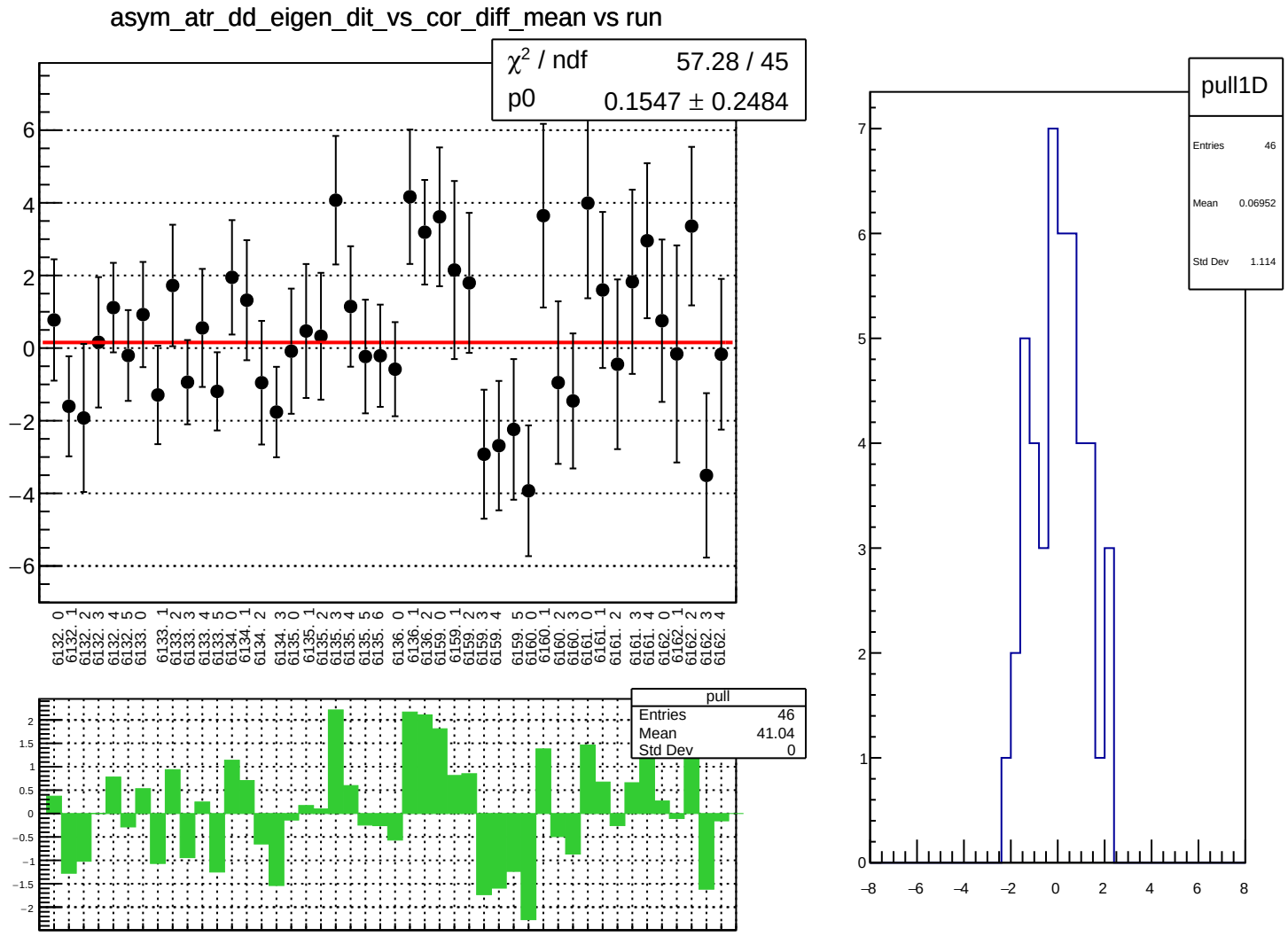

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.28 / 45
p0 0.1547 ± 0.2484
pull
Entries 46
Mean 41.05
Std Dev 0

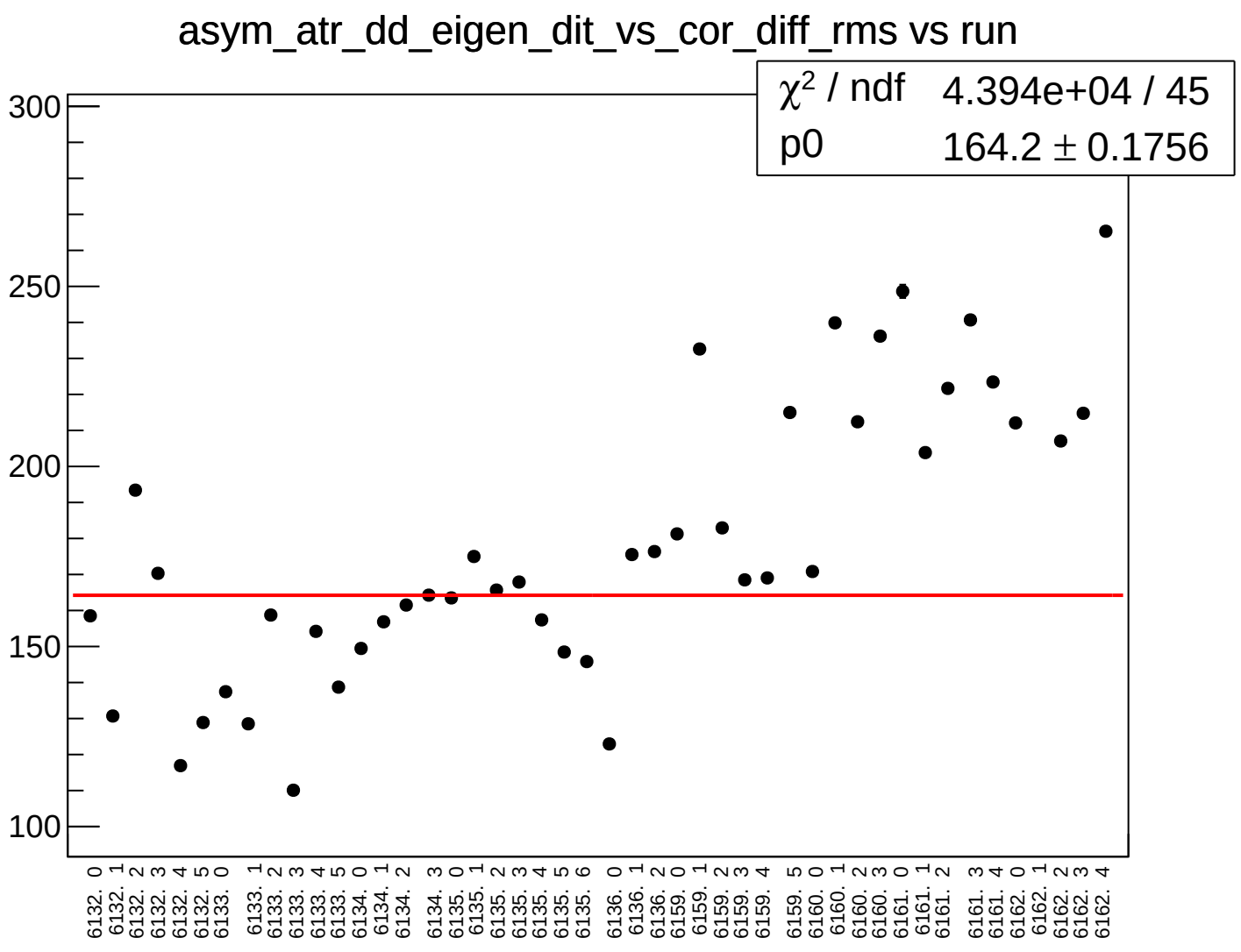

pull1D
Entries 46
Mean 0.06953
Std Dev 1.114

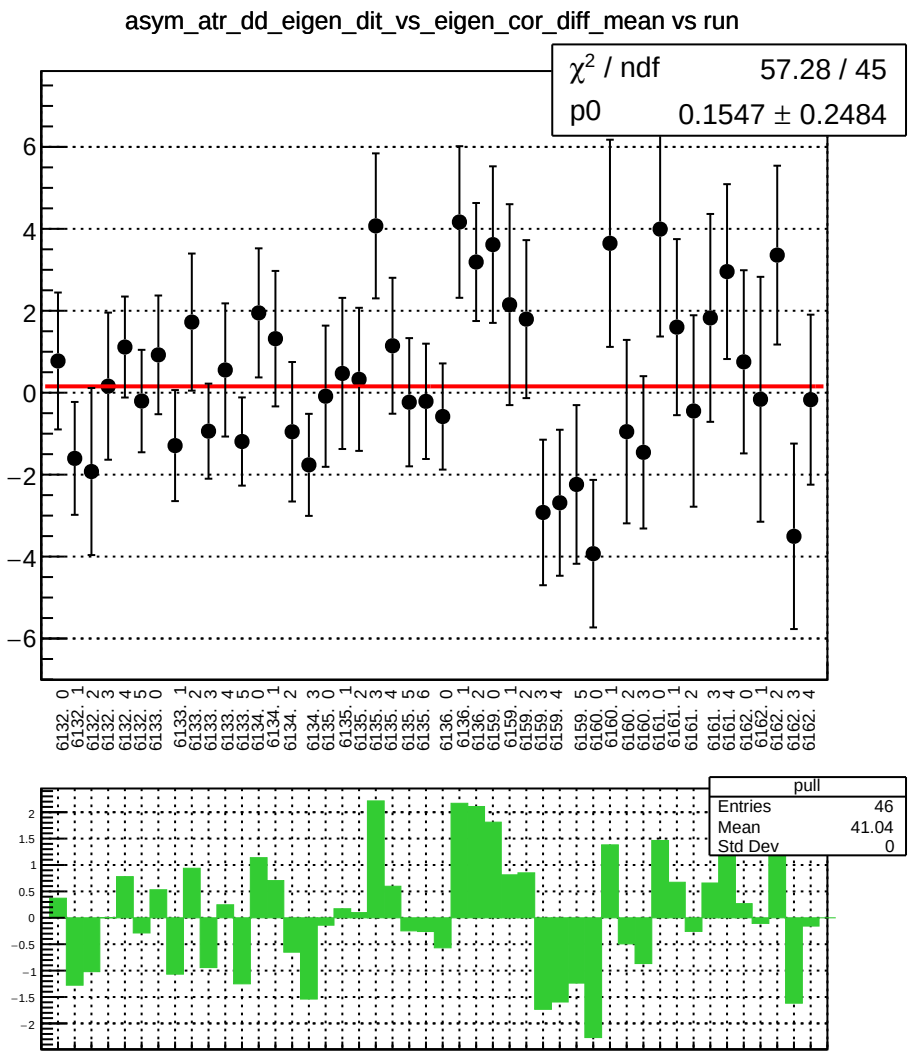

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.394e+04 / 45
p0 164.2 ± 0.1756
300
250
200
150
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

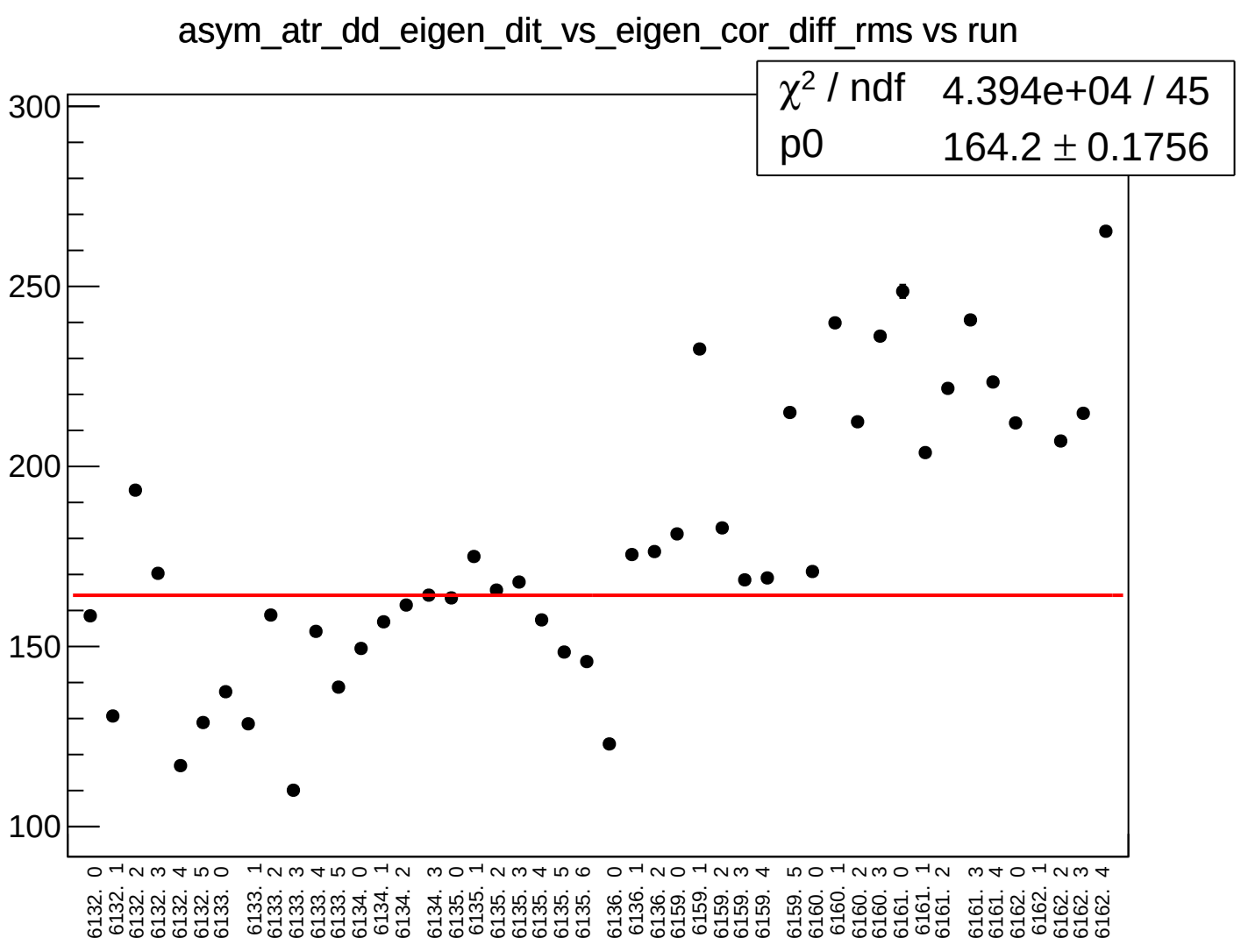

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 50.66 / 45
p0 1.709e−05 ± 2.889e−05
0.001
0.0005
0
−0.0005
−0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 79.95
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.07173
Std Dev 1.047
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

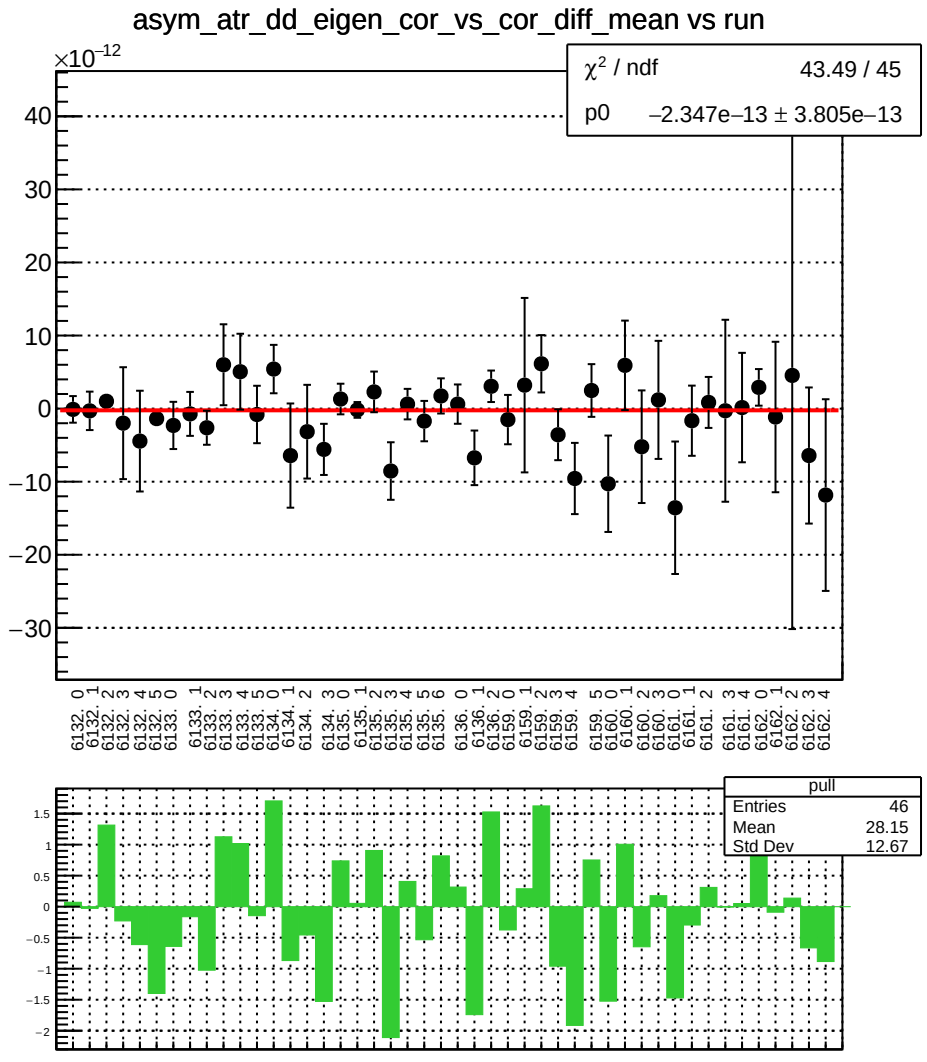

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.473e+04 / 45
p0 0.01854 ± 2.043e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

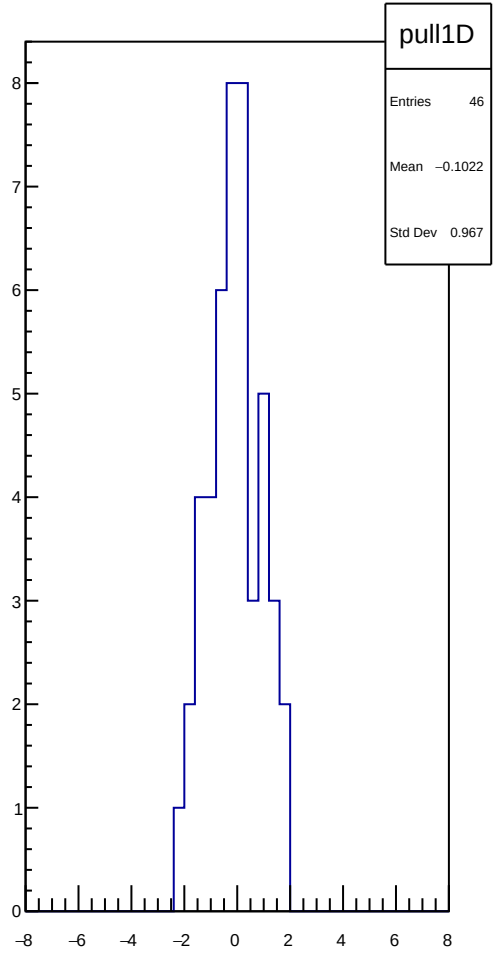

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 57.28 / 45
p0 0.1547 ± 0.2484
pull
Entries 46
Mean 41.04
Std Dev 0
pull1D
Entries 46
Mean 0.06952
Std Dev 1.114

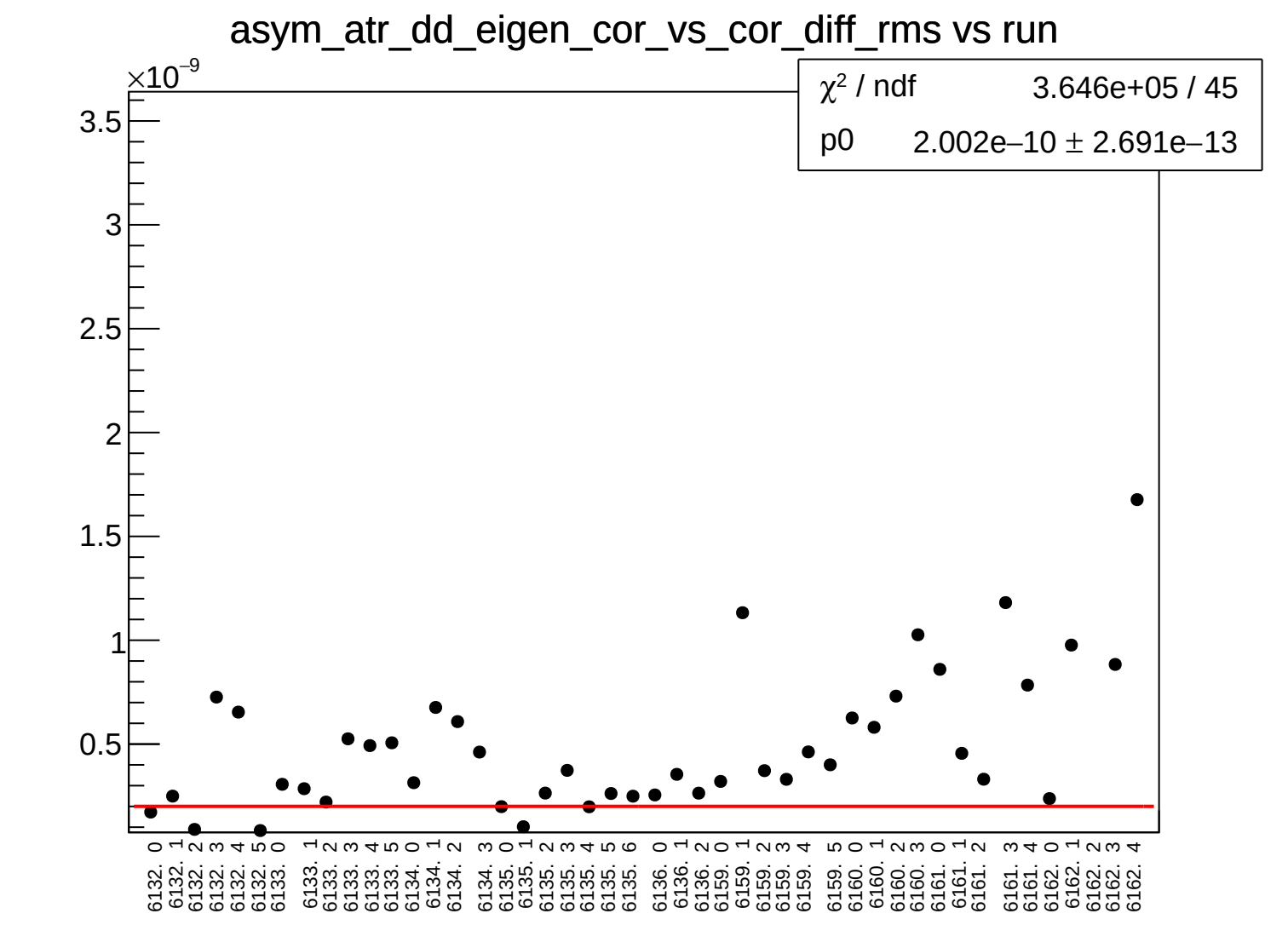

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.394e+04 / 45
p0 164.2 ± 0.1756
300
250
200
150
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

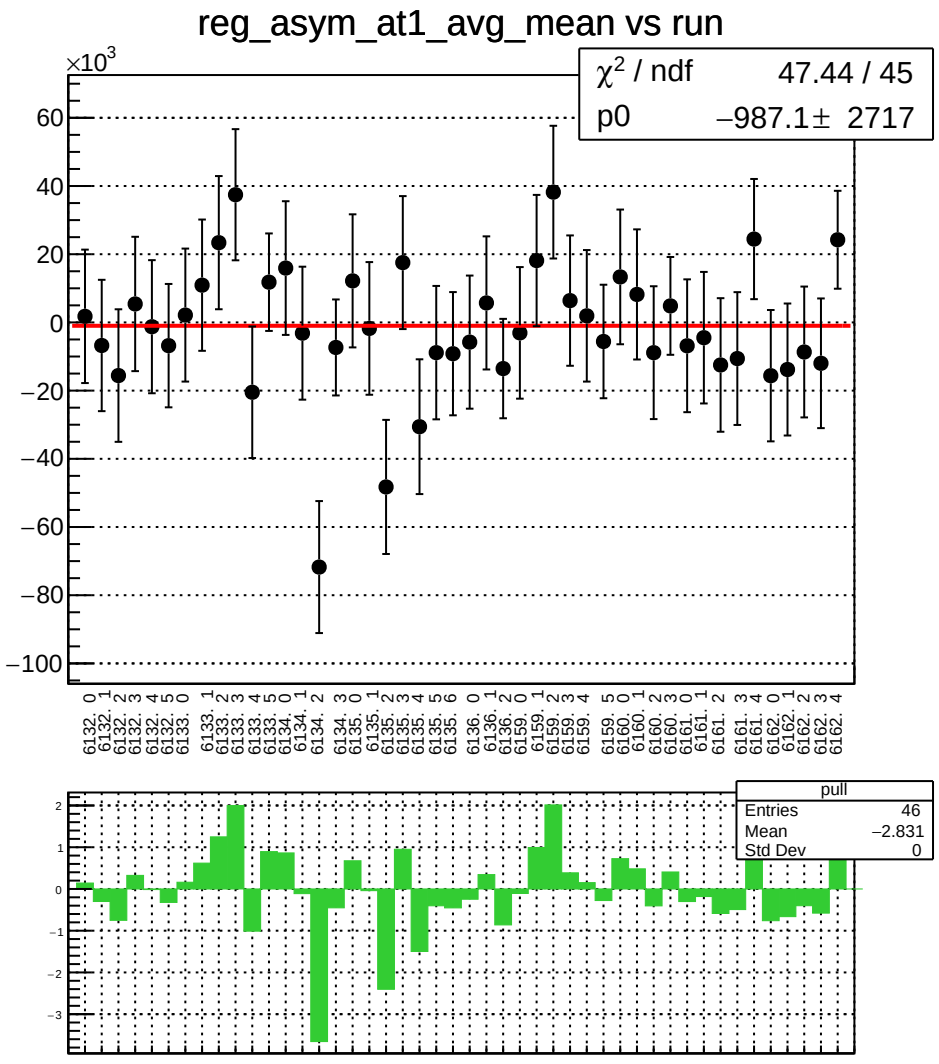

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.28 / 45
p0 0.1547 ± 0.2484
pull
Entries 46
Mean 41.04
Std Dev 0
pull1D
Entries 46
Mean 0.06952
Std Dev 1.114

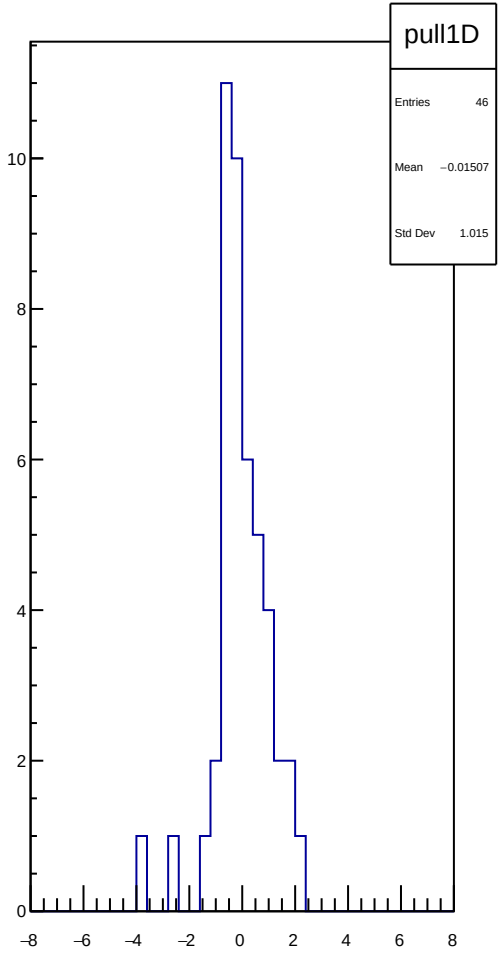

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.394e+04 / 45
p0 164.2 ± 0.1756
300
250
200
150
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

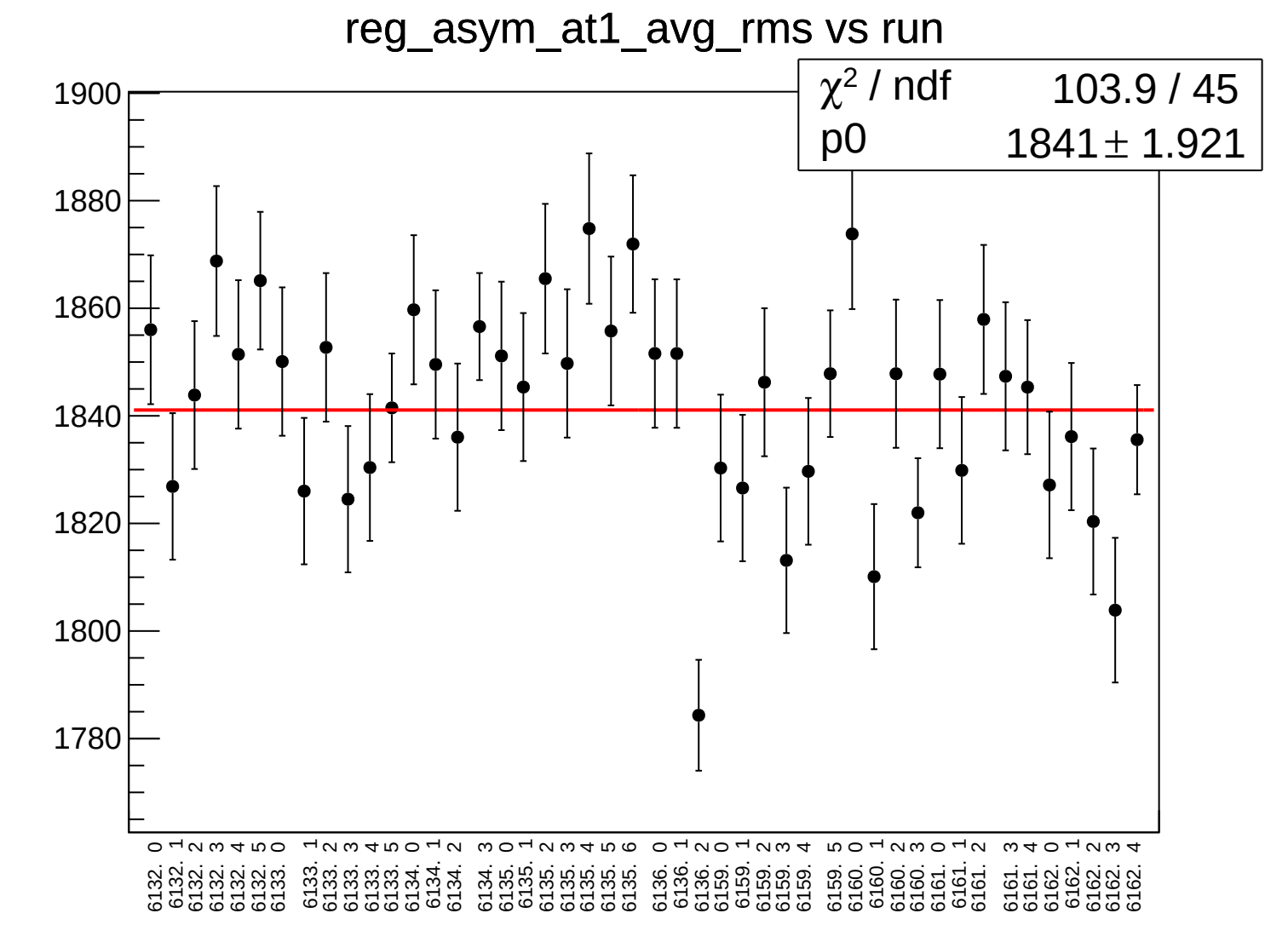

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 43.49 / 45
p0 −2.347e−13 ± 3.805e−13
pull
Entries 46
Mean 28.15
Std Dev 12.67

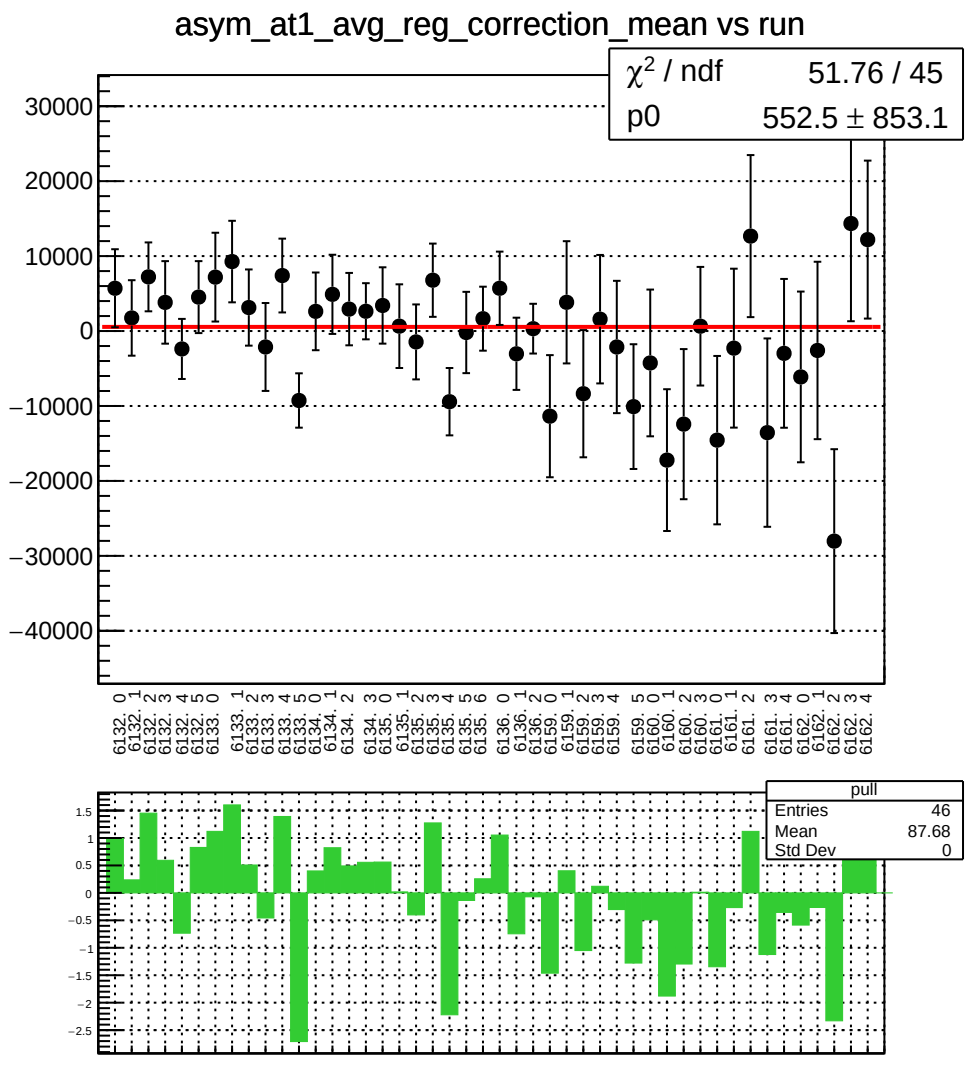

pull1D
Entries 46
Mean −0.1022
Std Dev 0.967

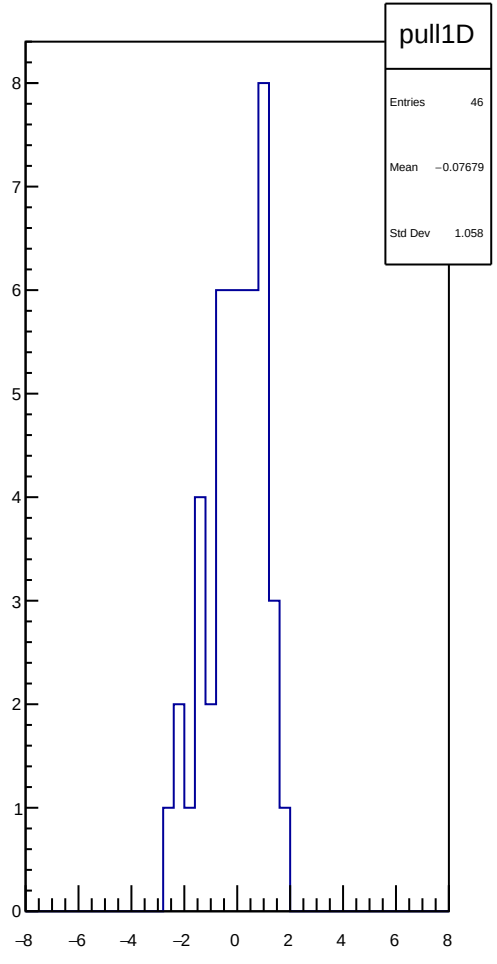

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.646e+05 / 45
p0 2.002e−10 ± 2.691e−13
3.5
3
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

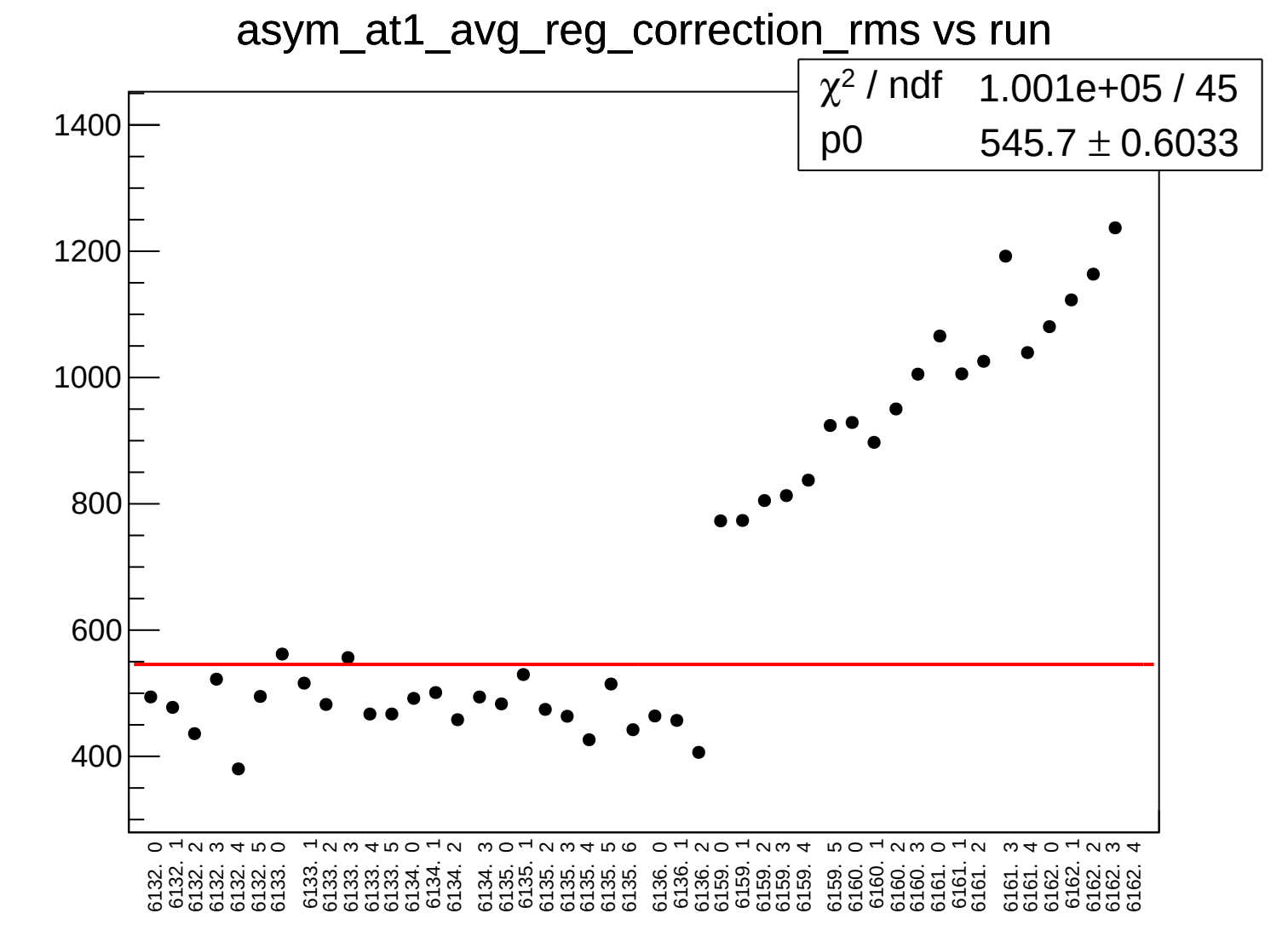

reg_asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 47.44 / 45
p0 −987.1± 2717
60
40
20
0
−20
−40
−60
−80
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −2.831
Std Dev 0
2
1
0
−1
−2
−3

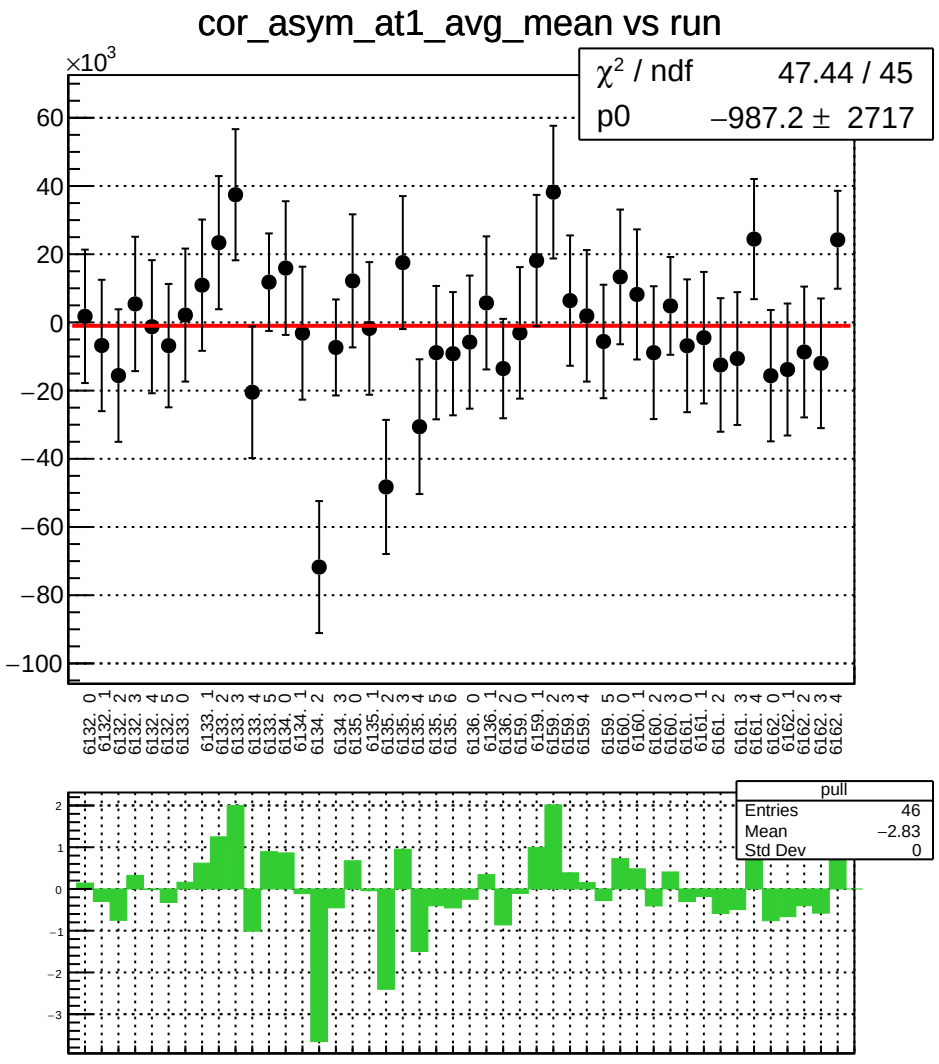

pull1D
Entries 46
Mean −0.01507
Std Dev 1.015
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

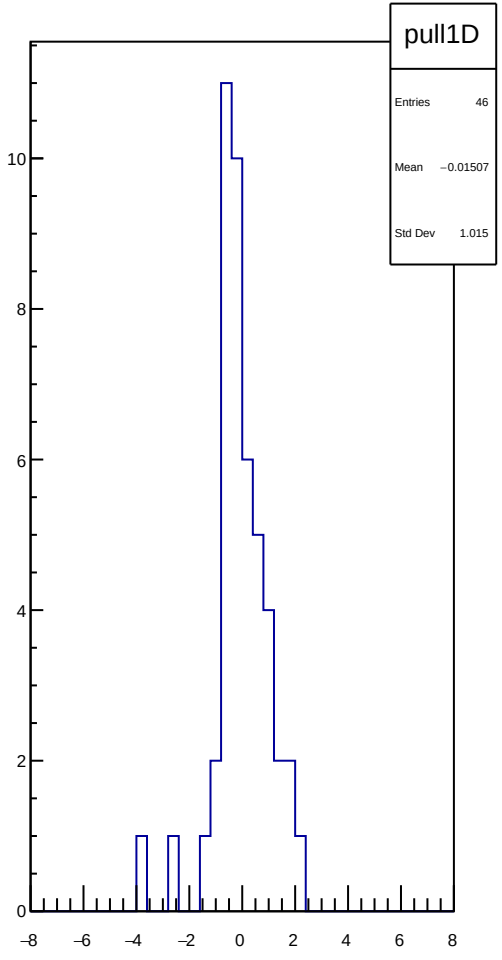

reg_asym_at1_avg_rms vs run
χ² / ndf 103.9 / 45
p0 1841 ± 1.921
1900
1880
1860
1840
1820
1800
1780
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

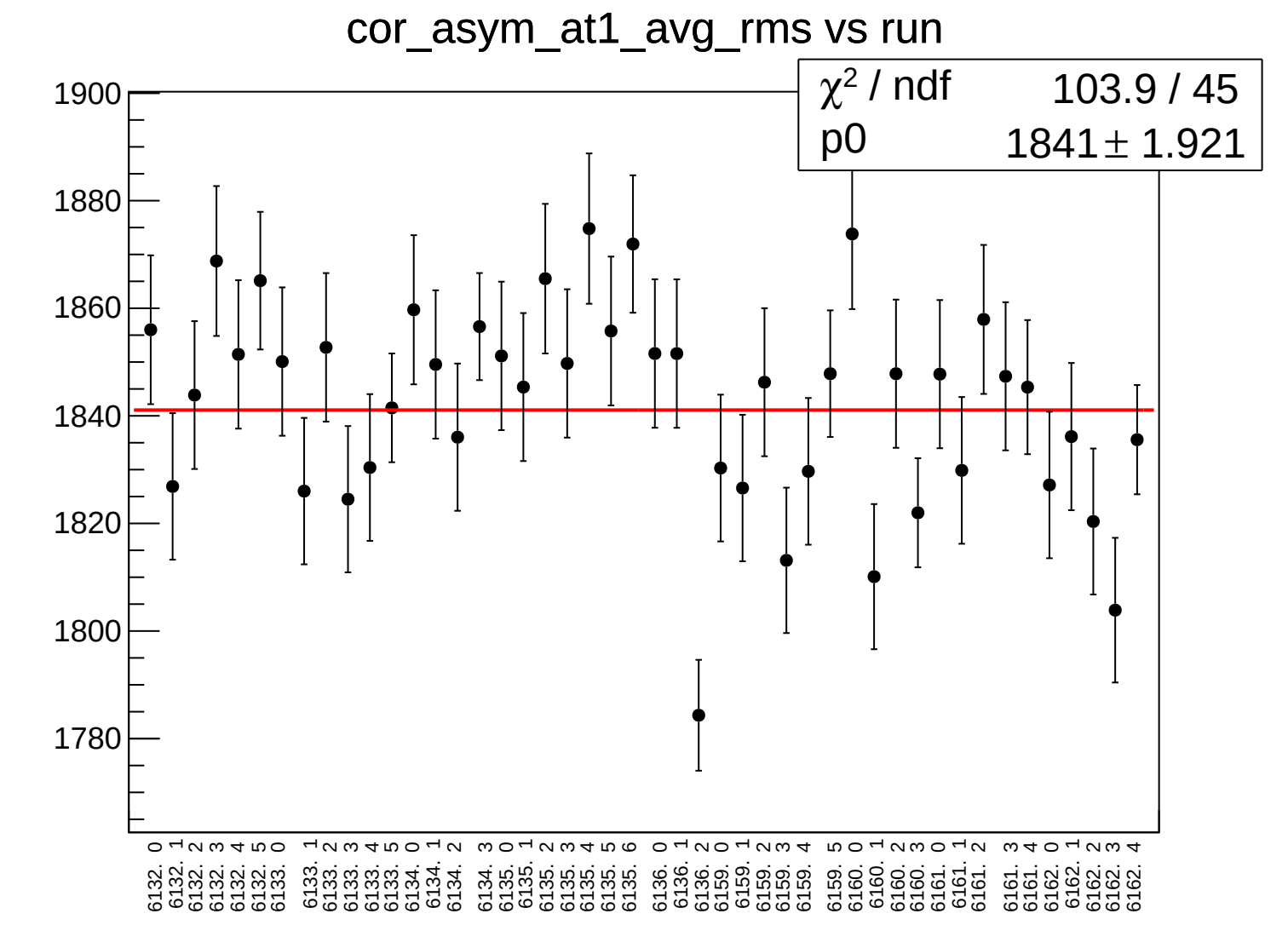

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 51.76 / 45
p0 552.5 ± 853.1
pull
Entries 46
Mean 87.68
Std Dev 0

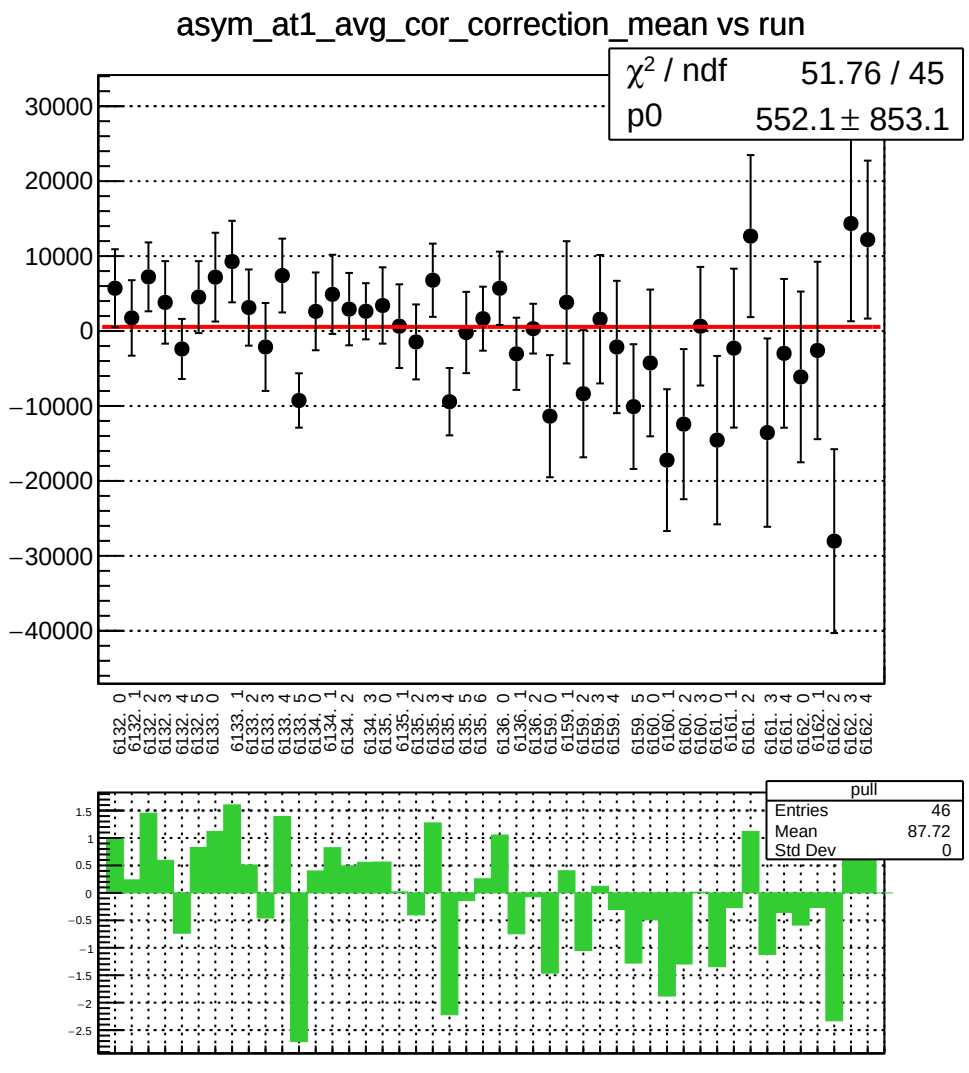

pull1D
Entries 46
Mean −0.07679
Std Dev 1.058


asym_at1_avg_reg_correction_rms vs run
χ² / ndf 1.001e+05 / 45
p0 545.7 ± 0.6033
1400
1200
1000
800
600
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_at1_avg_mean vs run
×10^3
χ² / ndf 47.44 / 45
p0 −987.2 ± 2717
60
40
20
0
−20
−40
−60
−80
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −2.83
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean −0.01507
Std Dev 1.015
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at1_avg_rms vs run
χ² / ndf 103.9 / 45
p0 1841 ± 1.921
1900
1880
1860
1840
1820
1800
1780
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_at1_avg_cor_correction_mean vs run
χ² / ndf 51.76 / 45
p0 552.1 ± 853.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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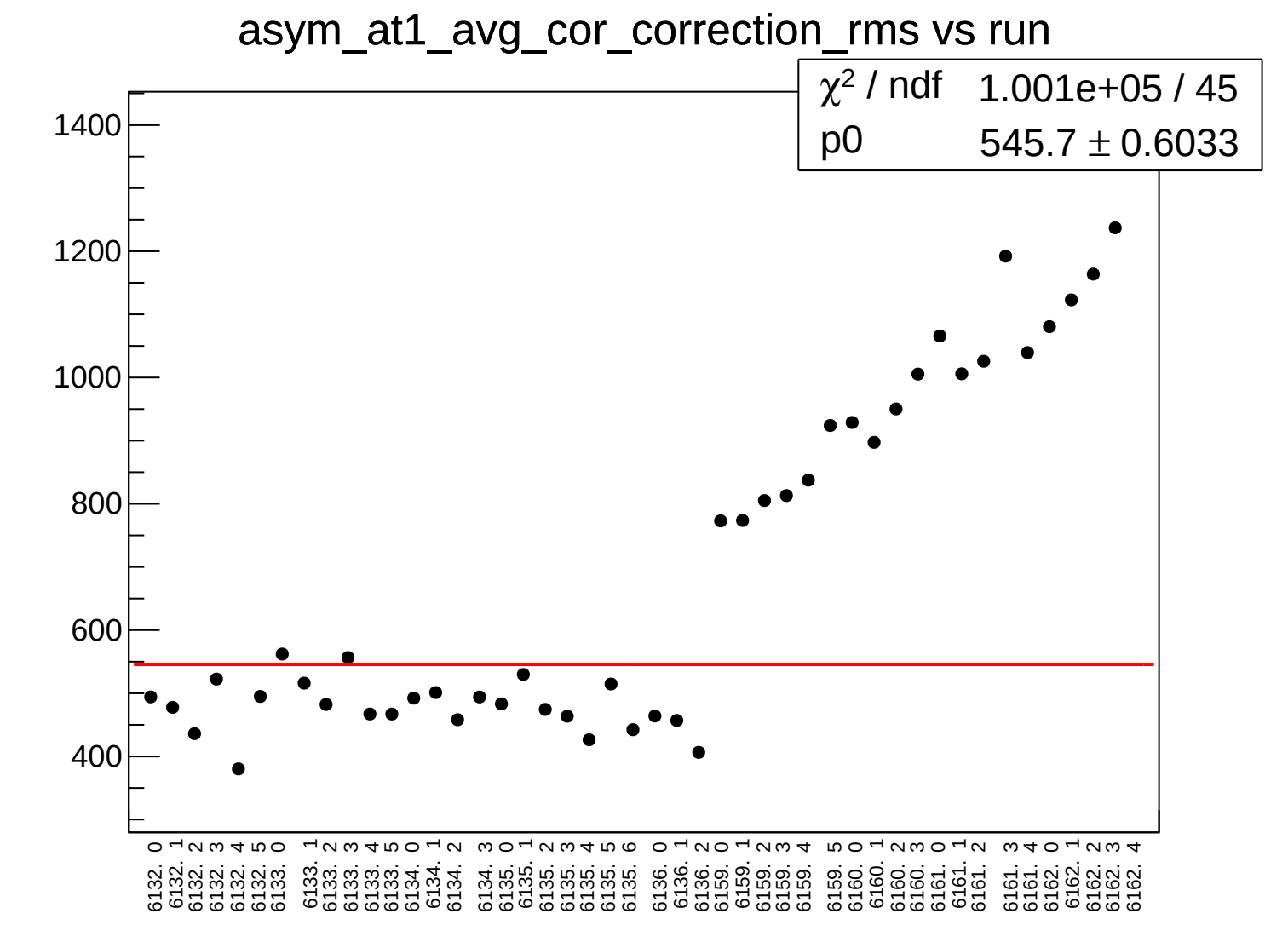
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 87.72
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.07675
Std Dev 1.058
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_cor_correction_rms vs run
χ² / ndf 1.001e+05 / 45
p0 545.7 ± 0.6033
1400
1200
1000
800
600
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 0
6135. 1
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6135. 3
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6135. 6
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6136. 2
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
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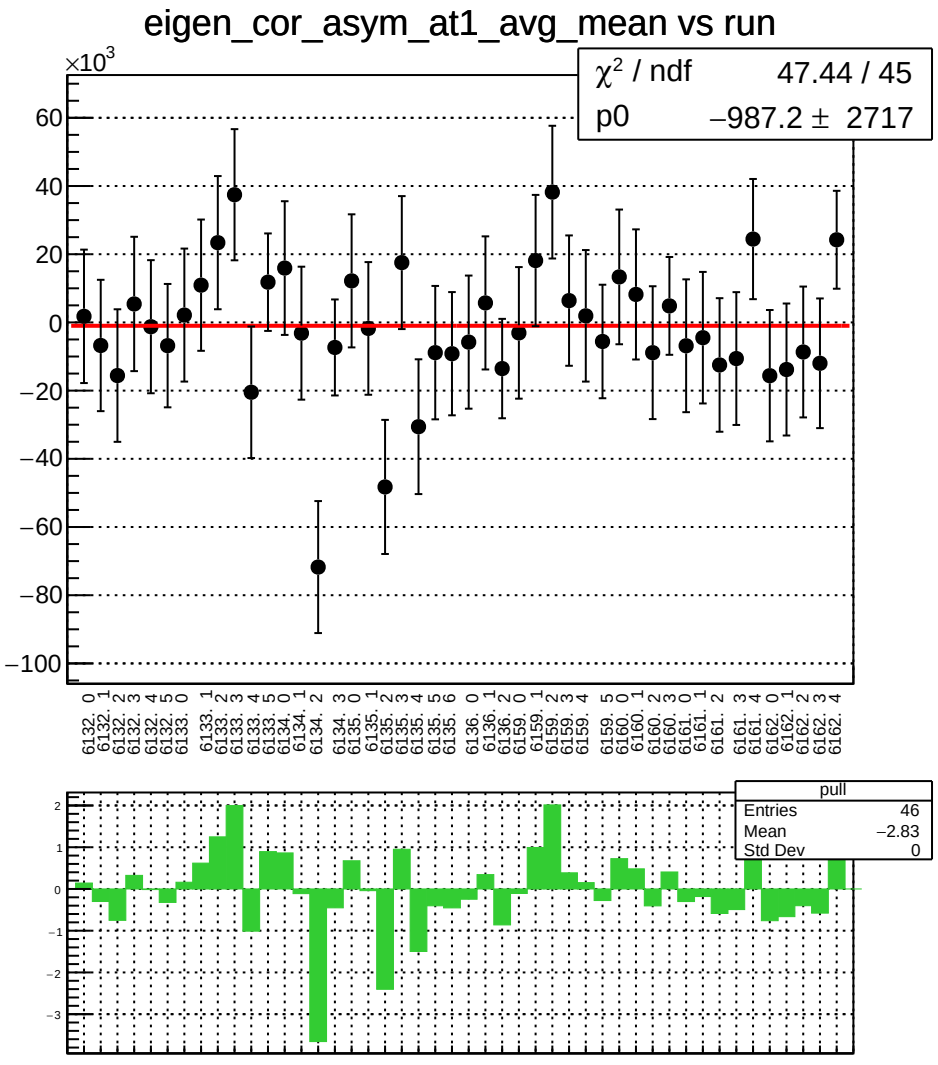
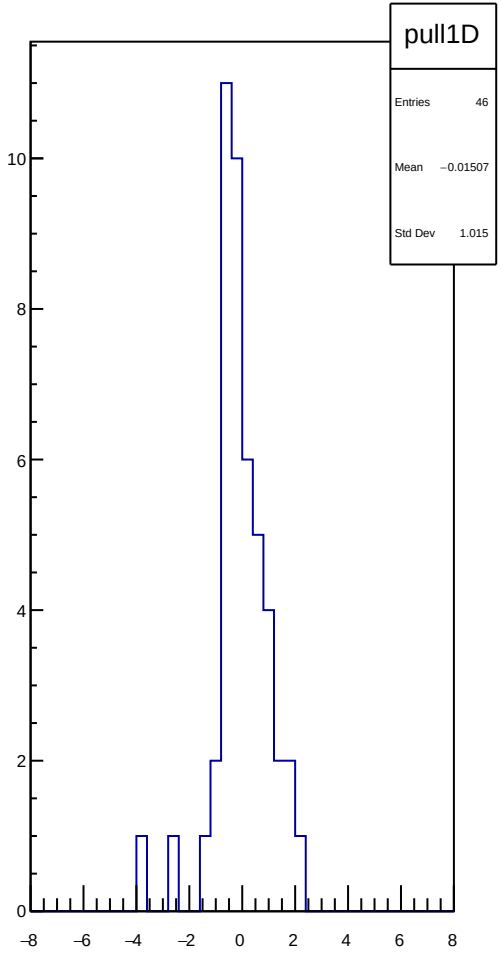
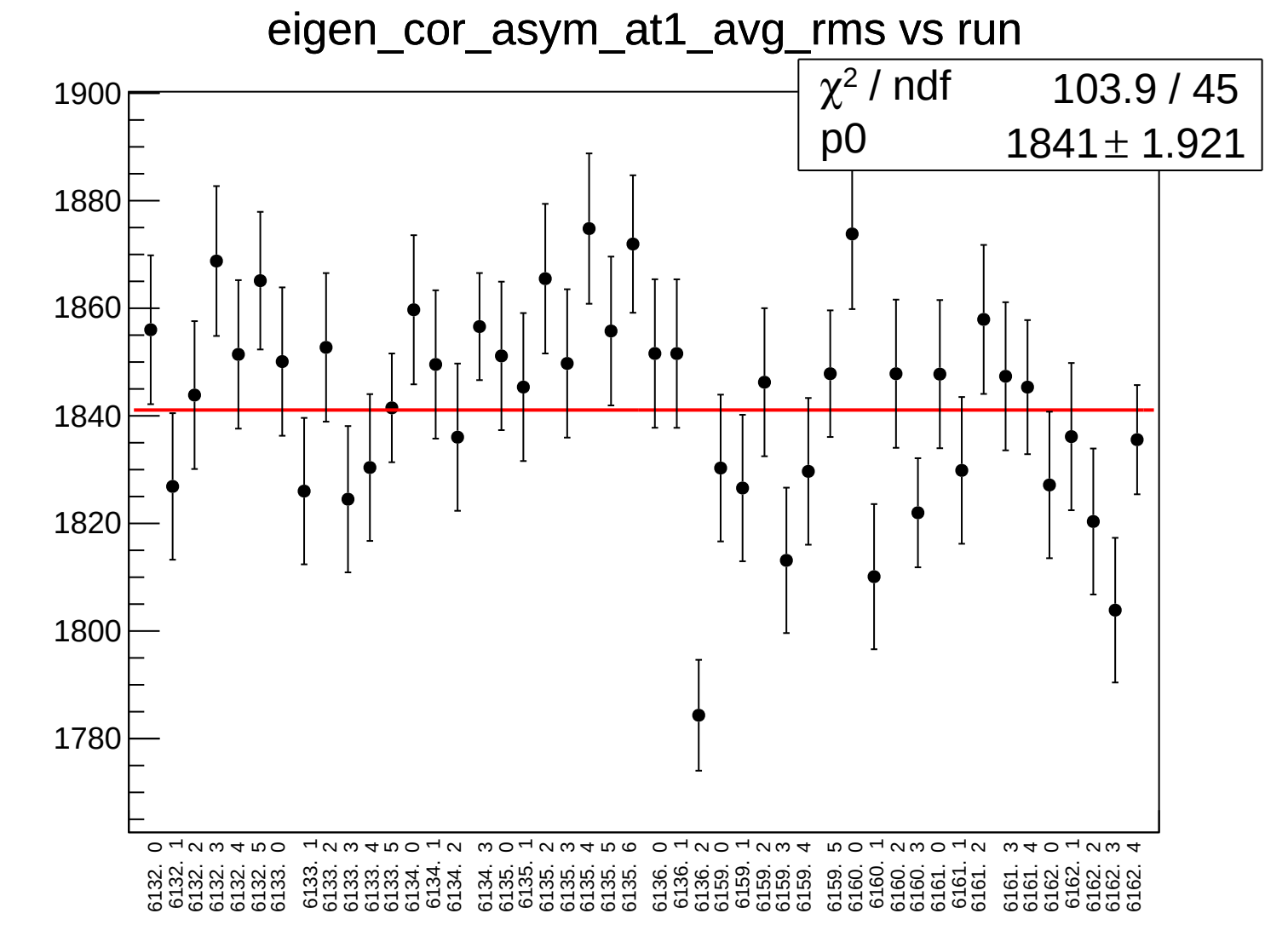
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_at1_avg_mean vs run
×10^3
χ² / ndf 47.44 / 45
p0 −987.2 ± 2717
60
40
20
0
−20
−40
−60
−80
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −2.83
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean −0.01507
Std Dev 1.015
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 103.9 / 45
p0 1841 ± 1.921
1900
1880
1860
1840
1820
1800
1780
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6136. 2
6159. 0
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6159. 2
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6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
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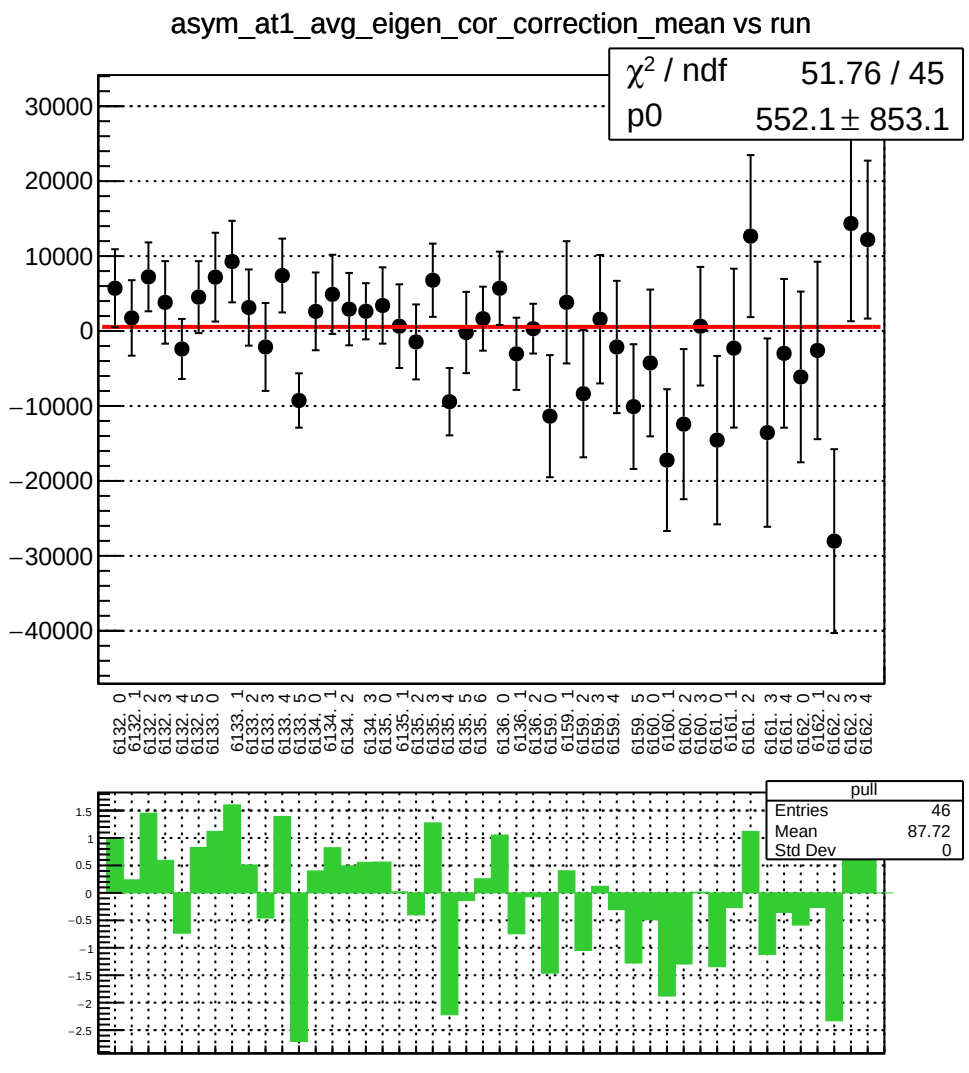
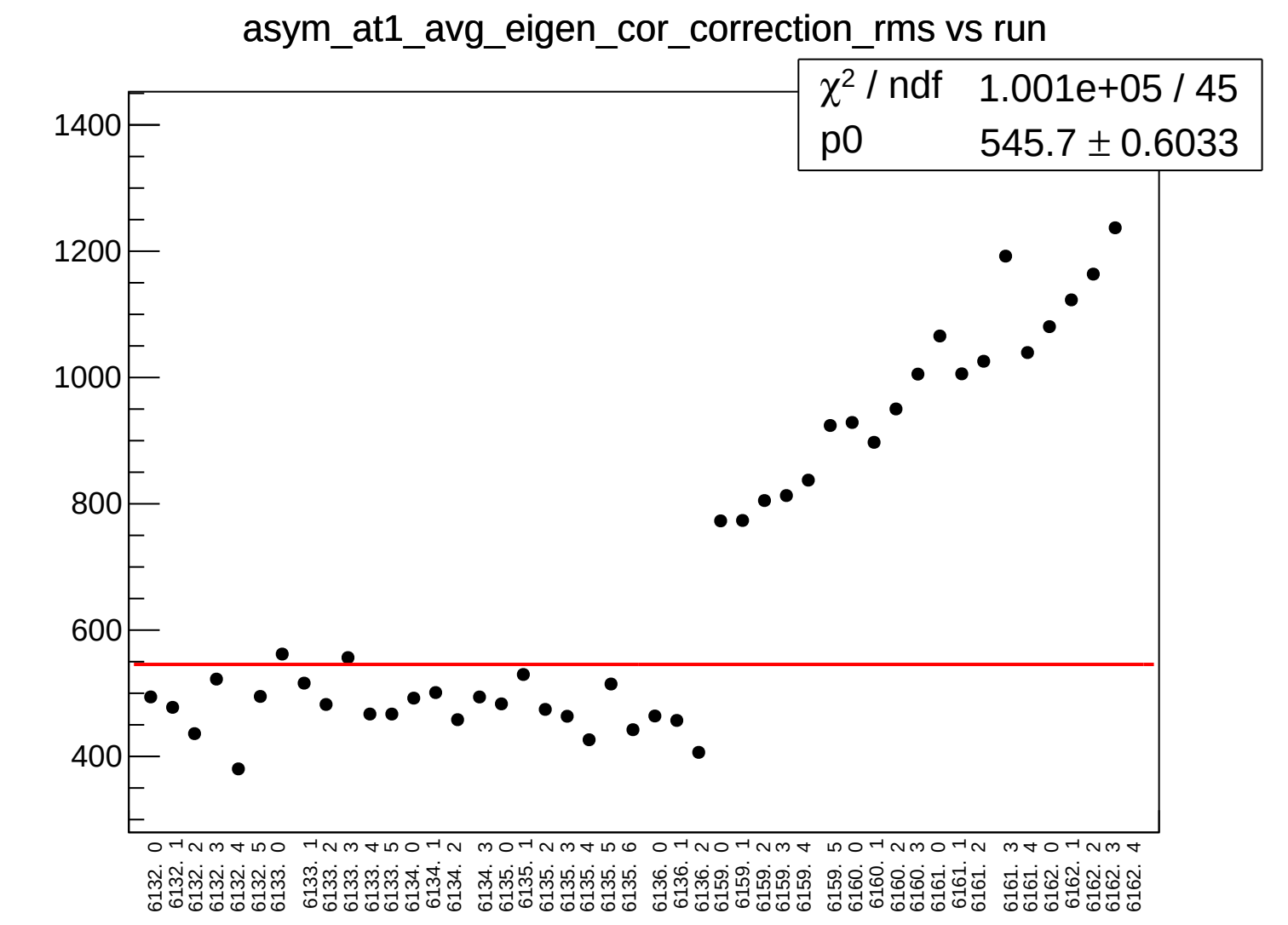
6162. 4


asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 51.76 / 45
p0 552.1 ± 853.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 87.72
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.07675
Std Dev 1.058
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.001e+05 / 45
p0 545.7 ± 0.6033
1400
1200
1000
800
600
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6135. 2
6135. 3
6135. 4
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6135. 6
6136. 0
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6136. 2
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6159. 2
6159. 3
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6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
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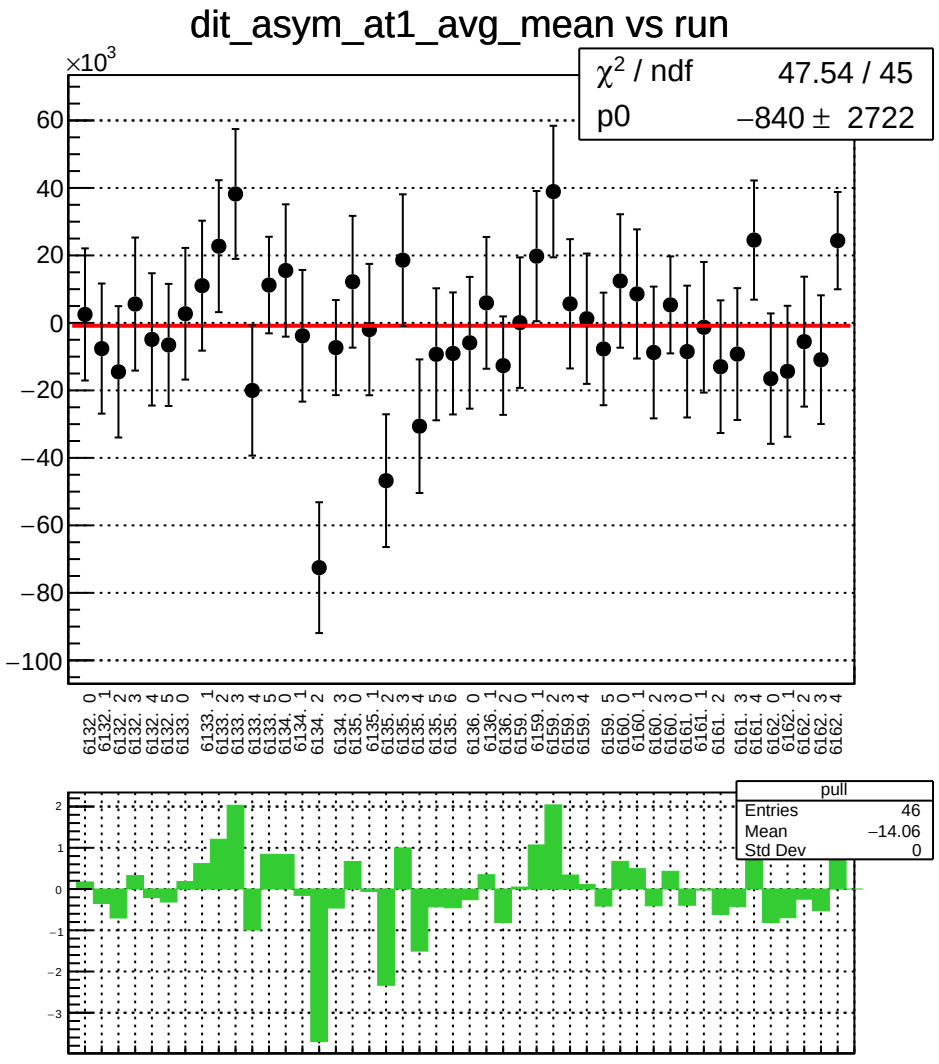
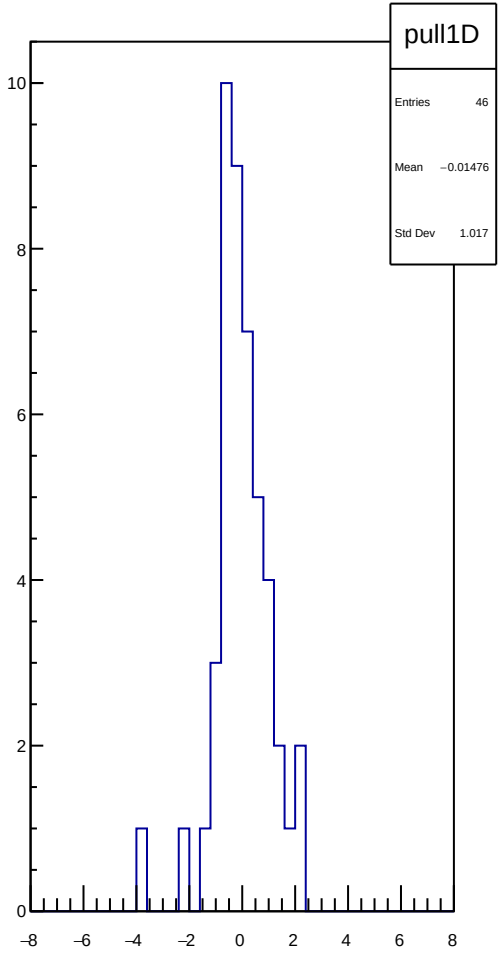
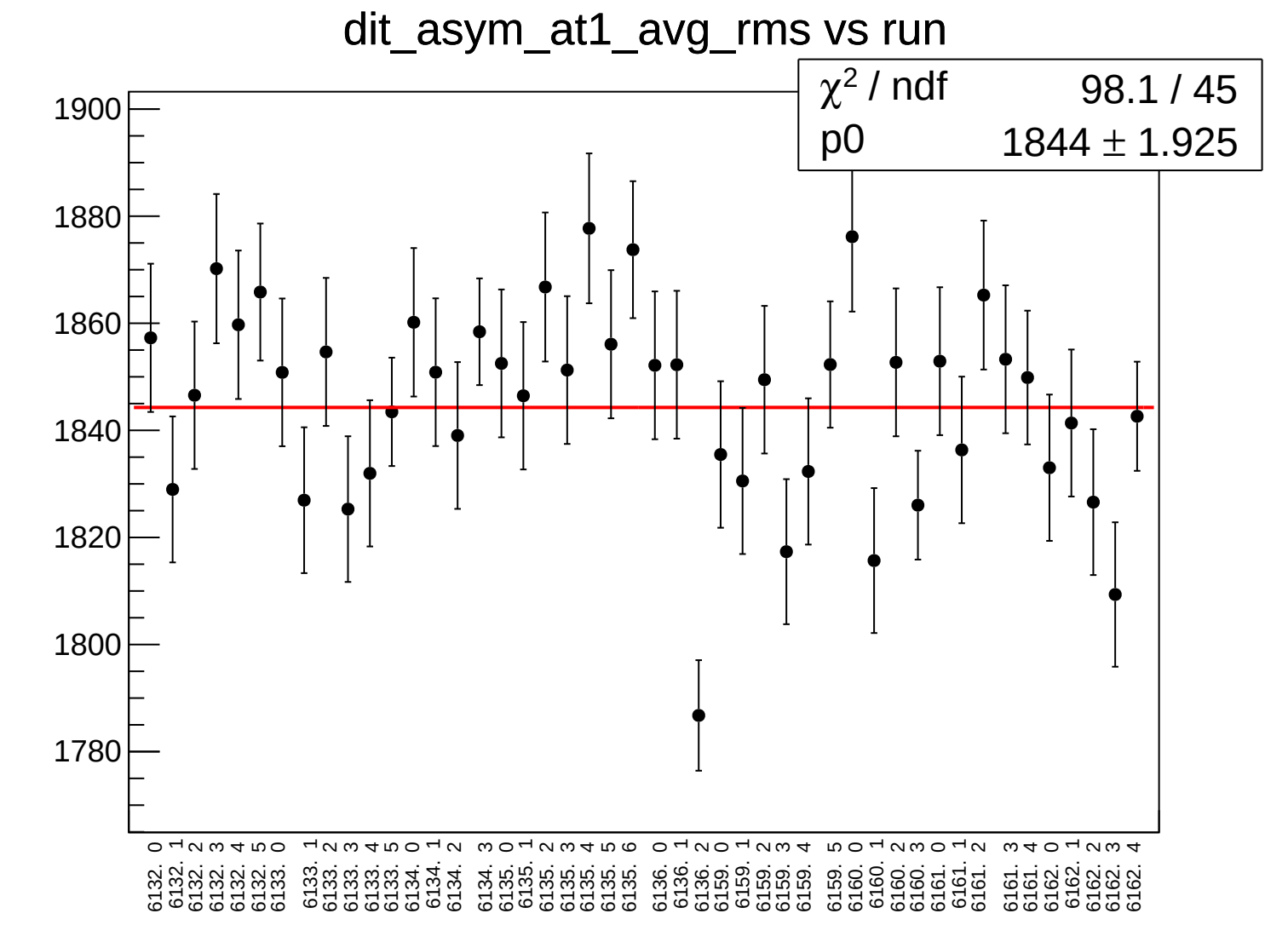
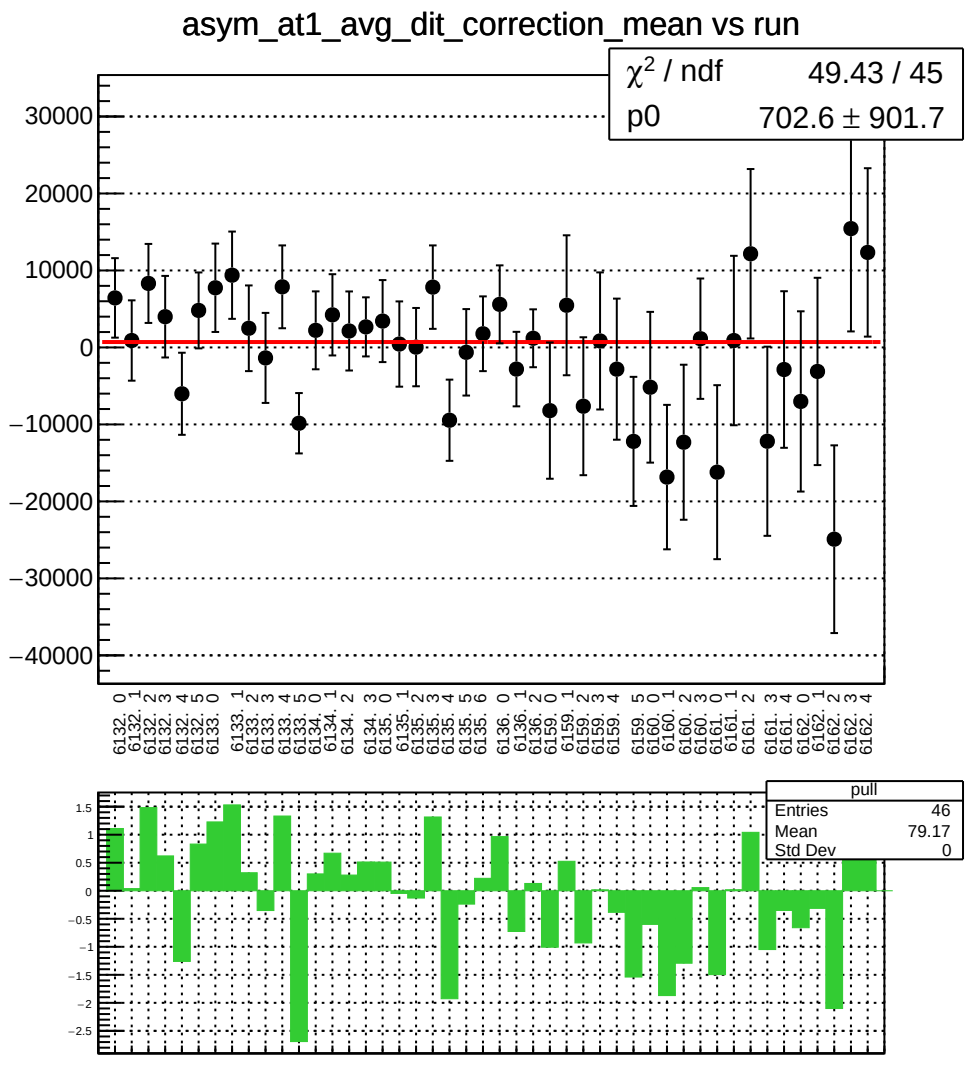
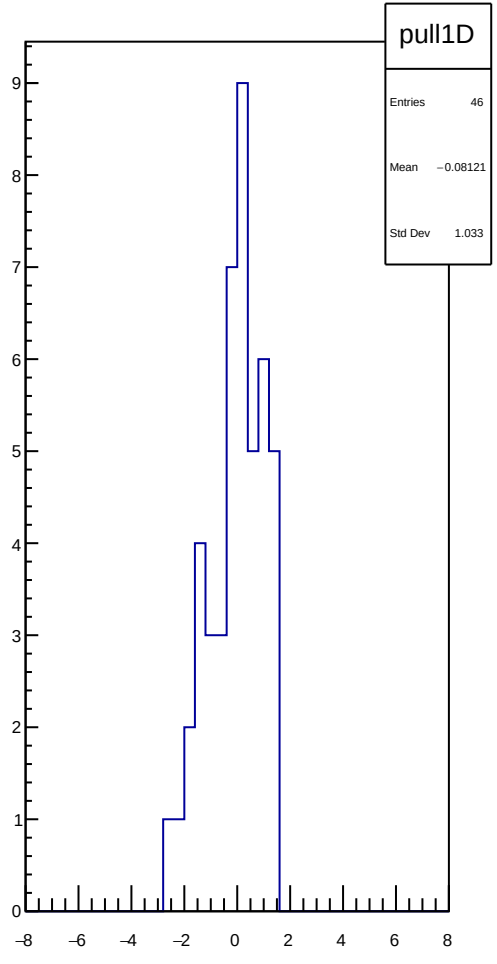
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

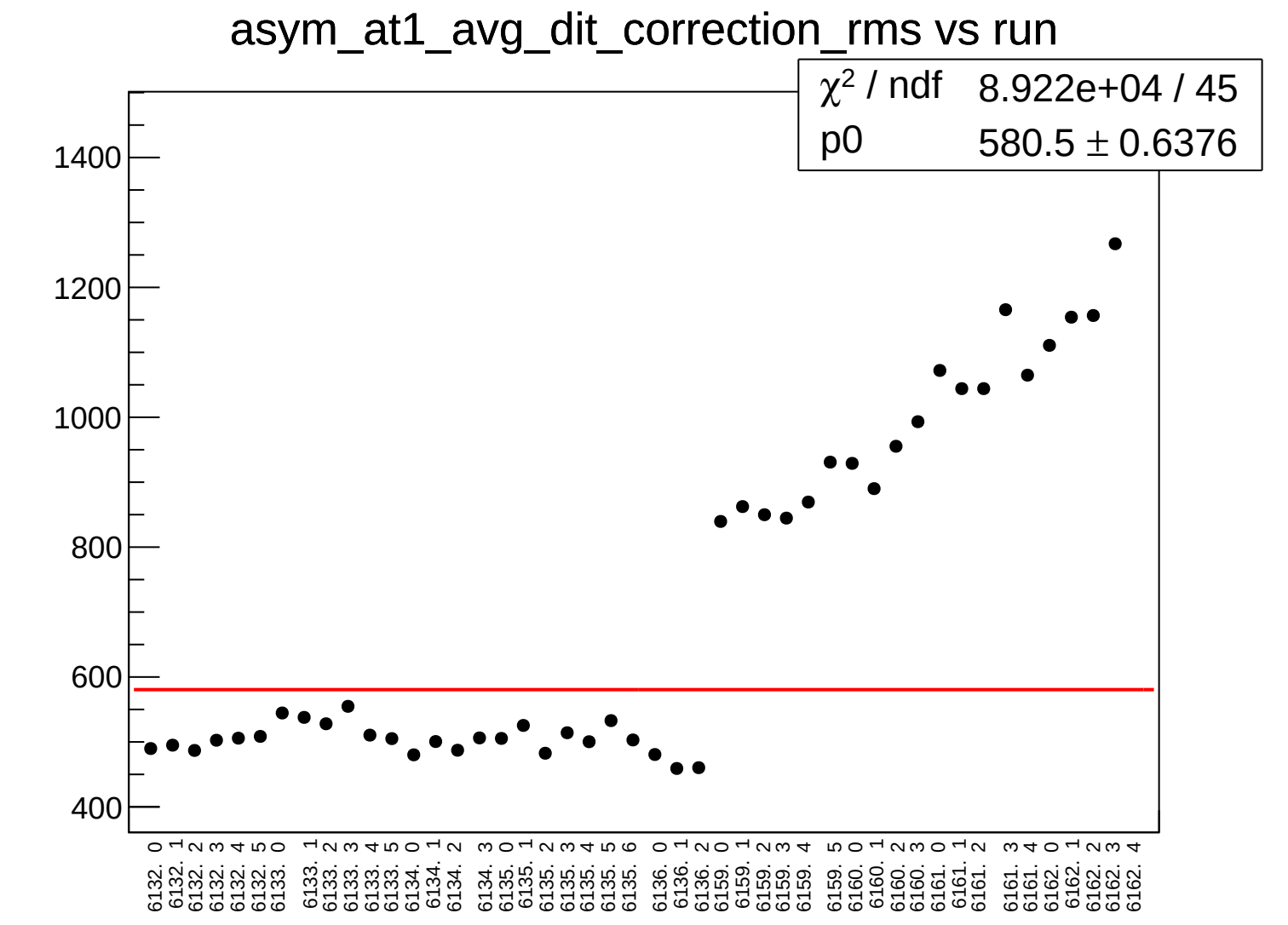

dit_asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 47.54 / 45
p0 −840 ± 2722
60
40
20
0
−20
−40
−60
−80
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −14.06
Std Dev 0
2
1
0
−1
−2
−3

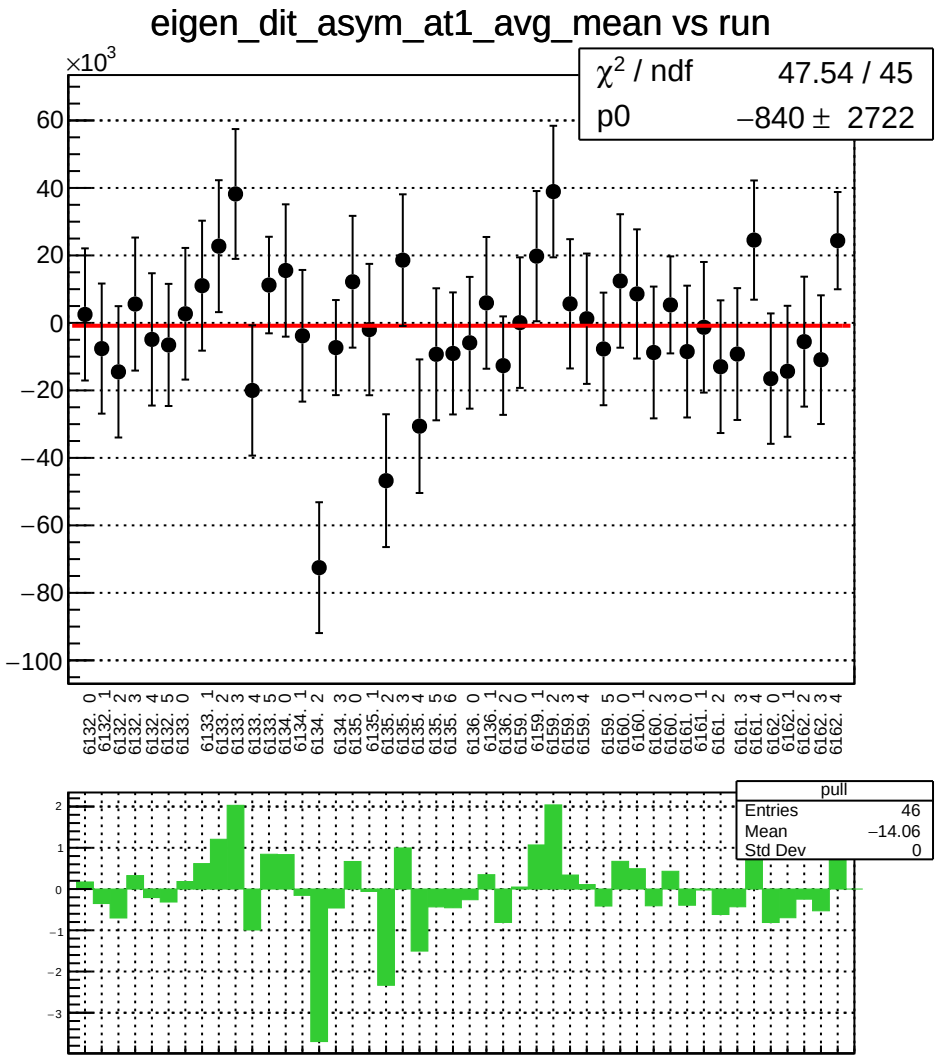

pull1D
Entries 46
Mean −0.01476
Std Dev 1.017
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

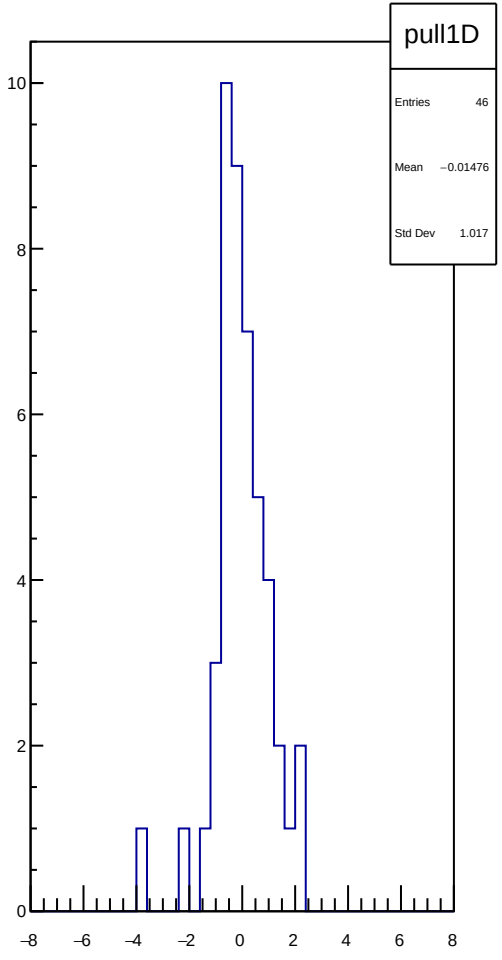

dit_asym_at1_avg_rms vs run
χ² / ndf 98.1 / 45
p0 1844 ± 1.925
1900
1880
1860
1840
1820
1800
1780
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

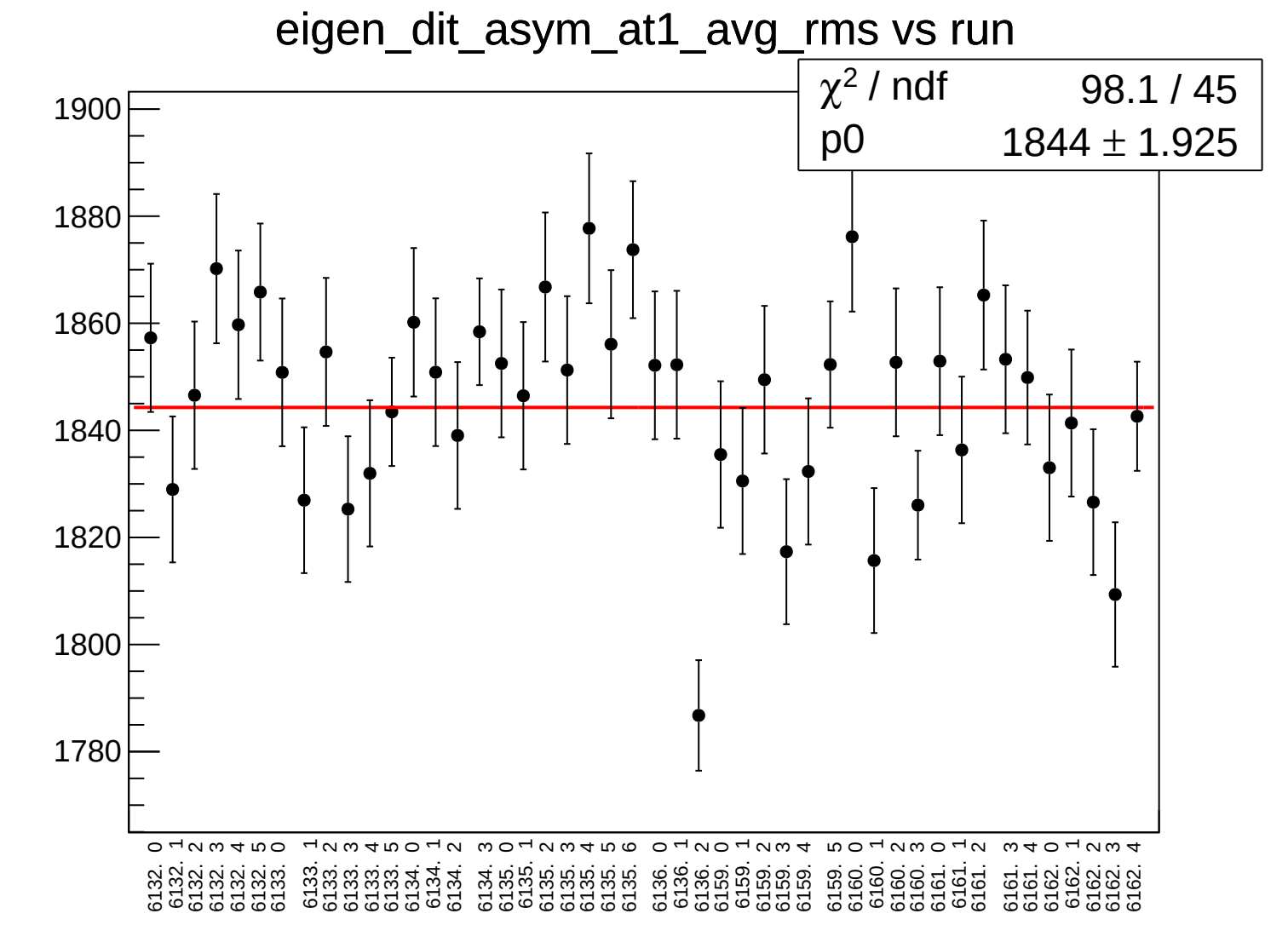

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 49.43 / 45
p0 702.6 ± 901.7
pull
Entries 46
Mean 79.17
Std Dev 0

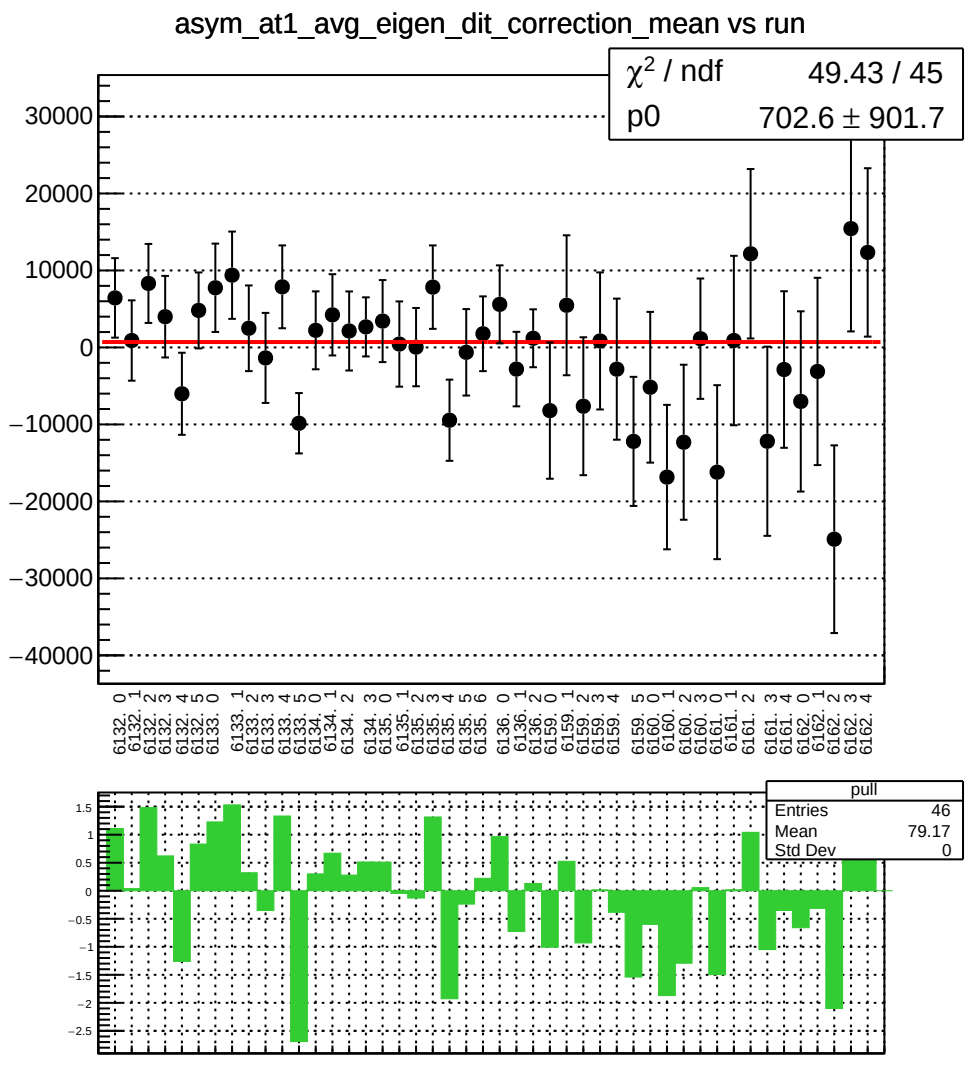

pull1D
Entries 46
Mean −0.08121
Std Dev 1.033

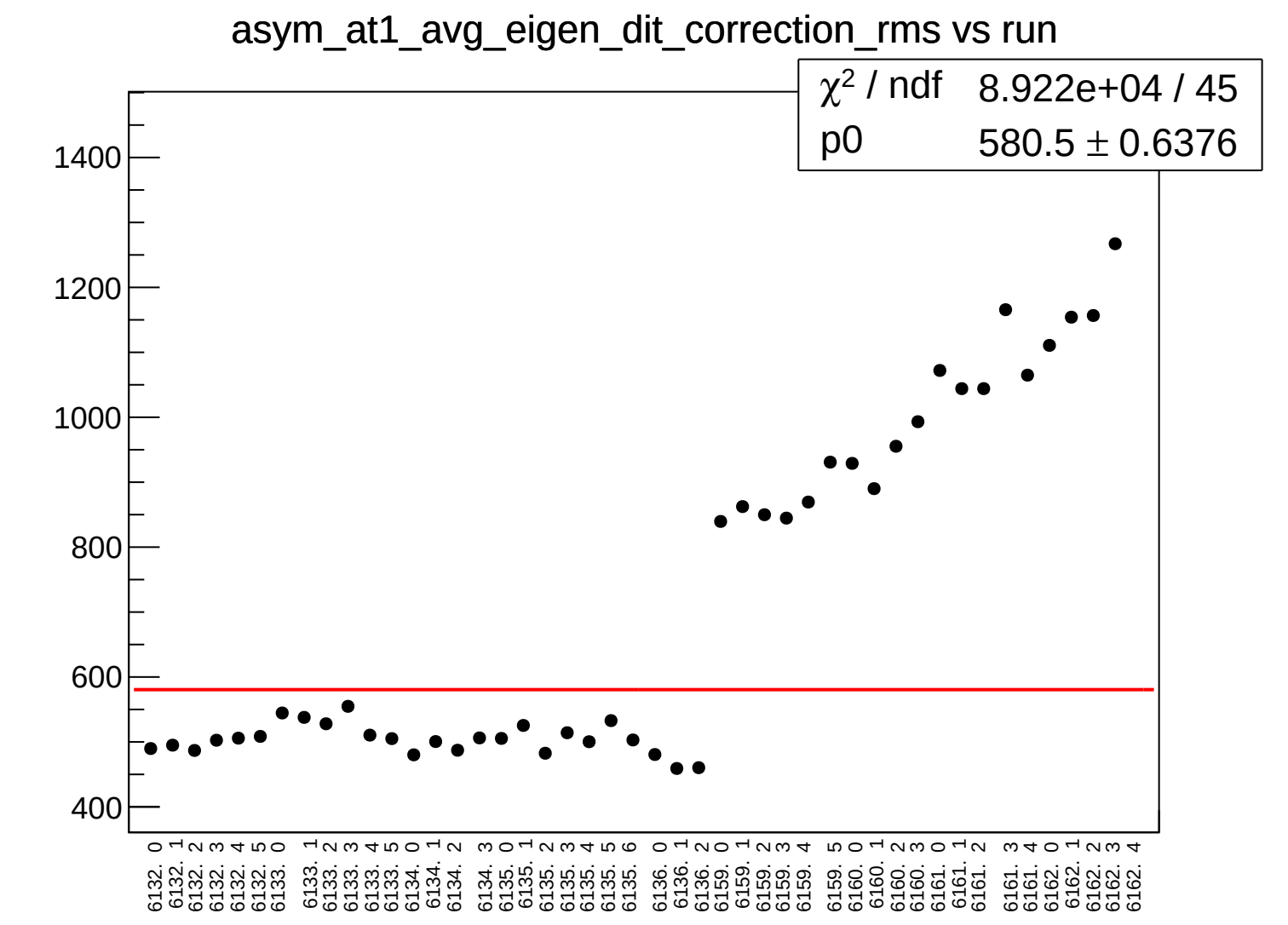

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 8.922e+04 / 45
p0 580.5 ± 0.6376
1400
1200
1000
800
600
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

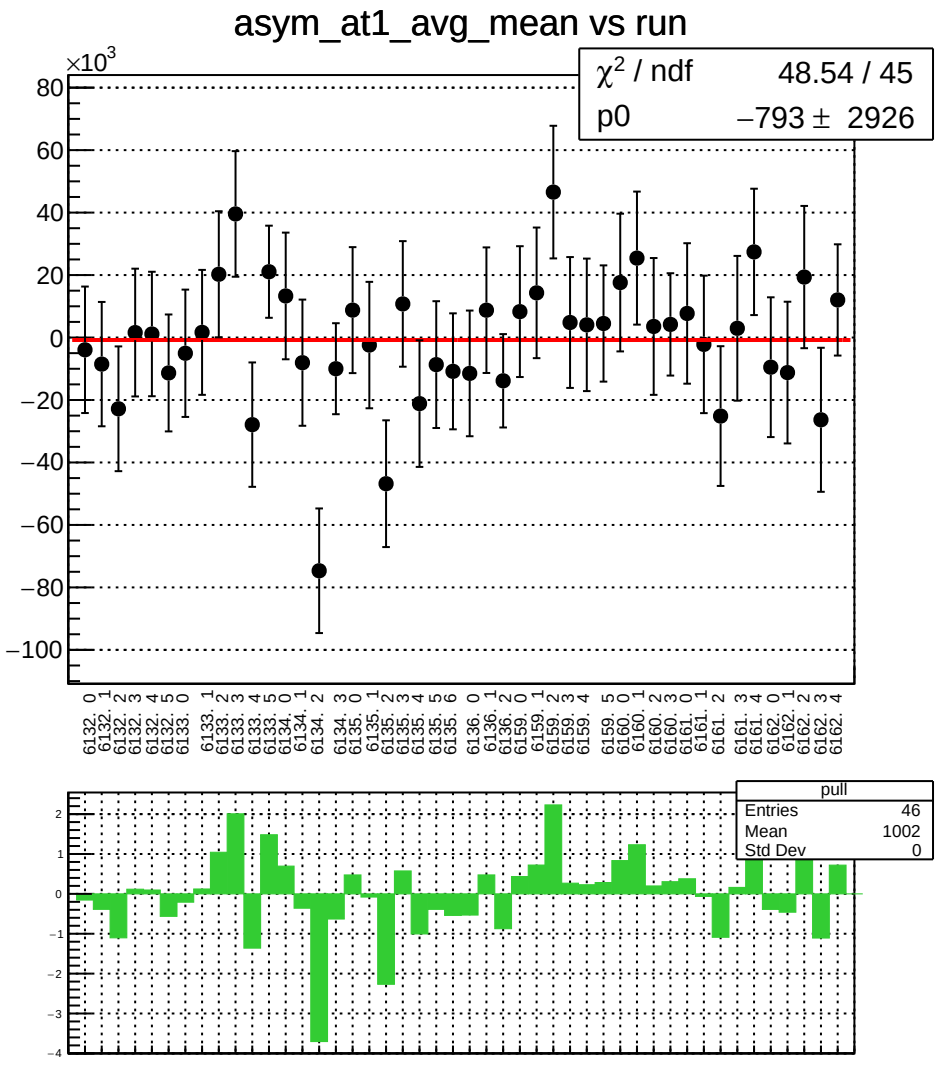

eigen_dit_asym_at1_avg_mean vs run
×10^3
χ² / ndf 47.54 / 45
p0 −840 ± 2722
pull
Entries 46
Mean −14.06
Std Dev 0

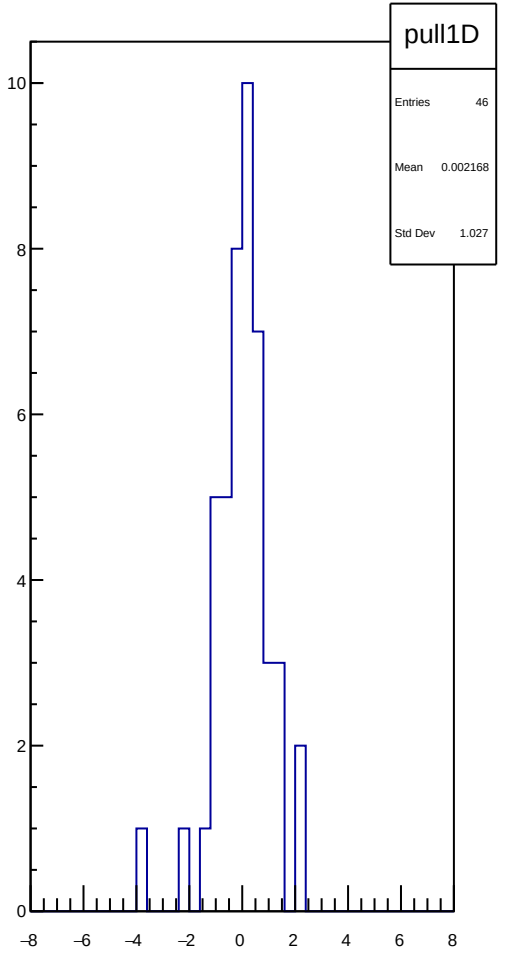

pull1D
Entries 46
Mean −0.01476
Std Dev 1.017

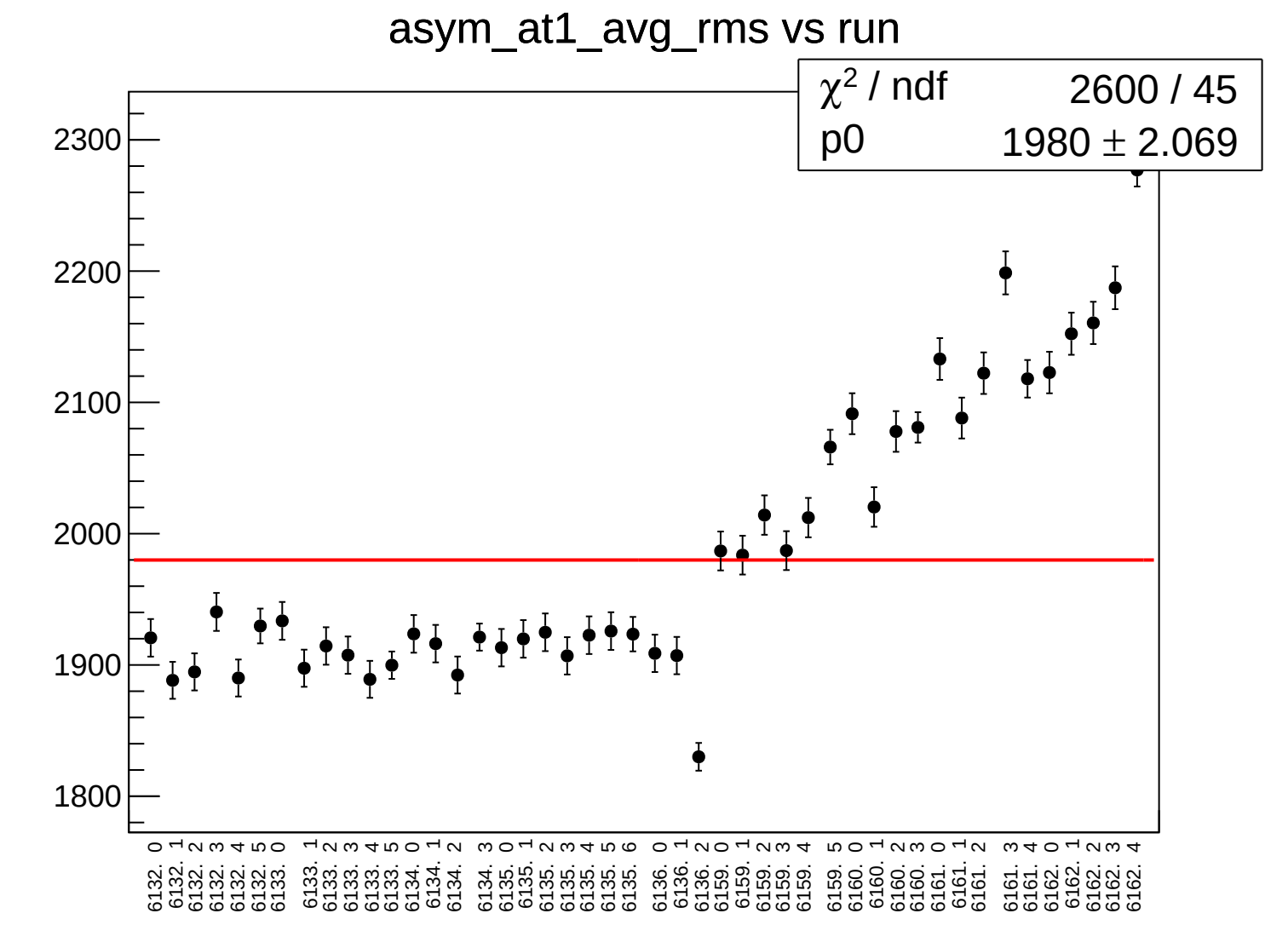

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 98.1 / 45
p0 1844 ± 1.925
1900
1880
1860
1840
1820
1800
1780
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

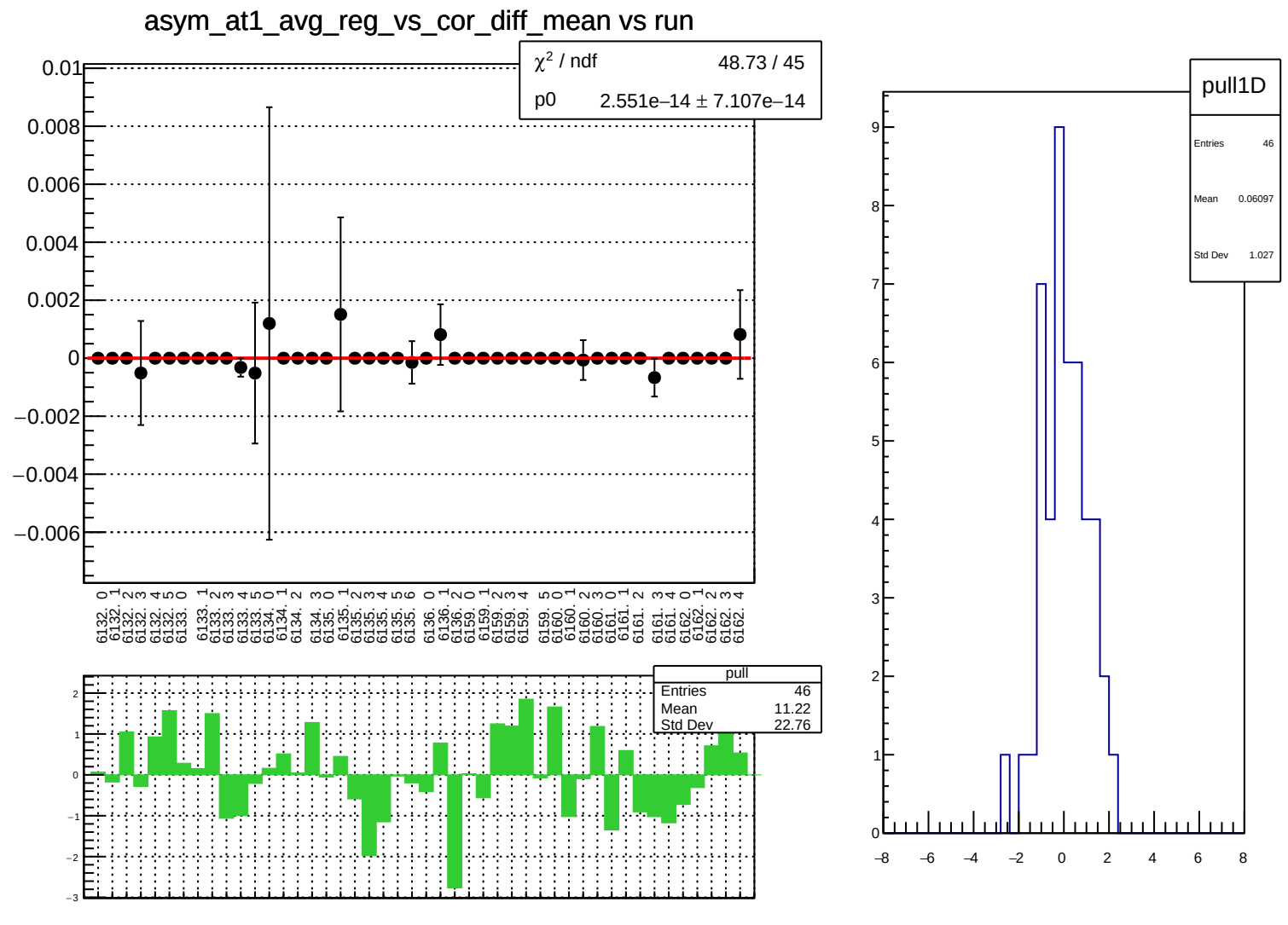

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 49.43 / 45
p0 702.6 ± 901.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 79.17
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.08121
Std Dev 1.033
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

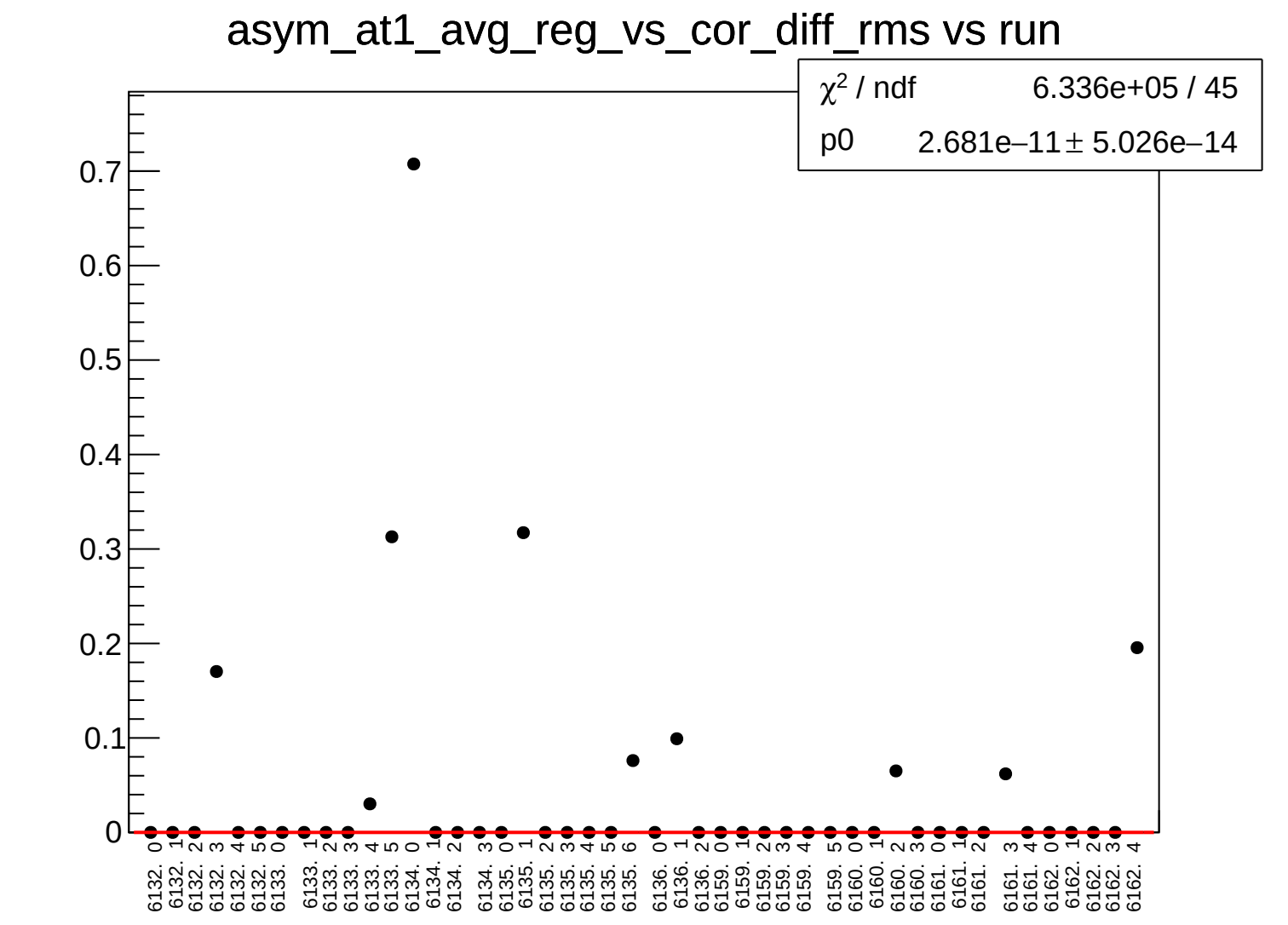

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 8.922e+04 / 45
p0 580.5 ± 0.6376
1400
1200
1000
800
600
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

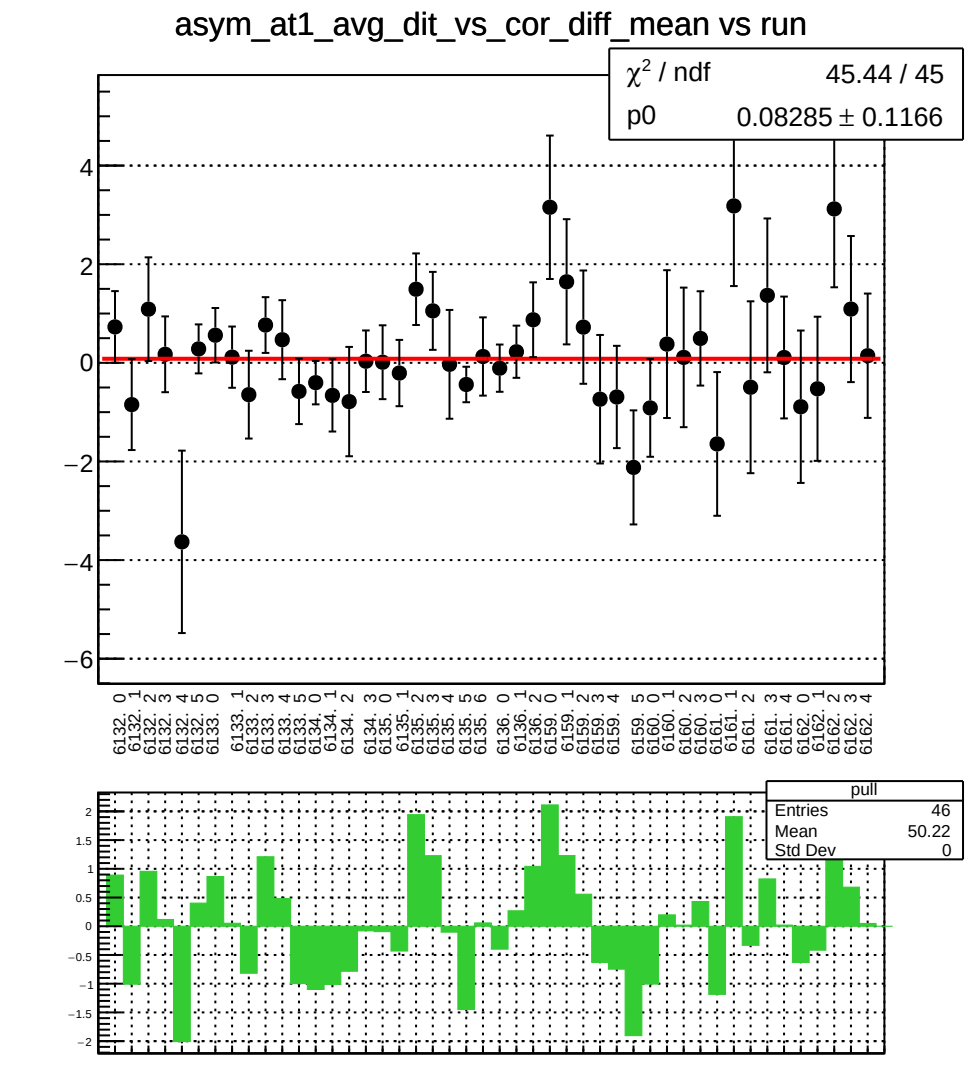

asym_at1_avg_mean vs run
×10^3
χ² / ndf 48.54 / 45
p0 −793 ± 2926
pull
Entries 46
Mean 1002
Std Dev 0

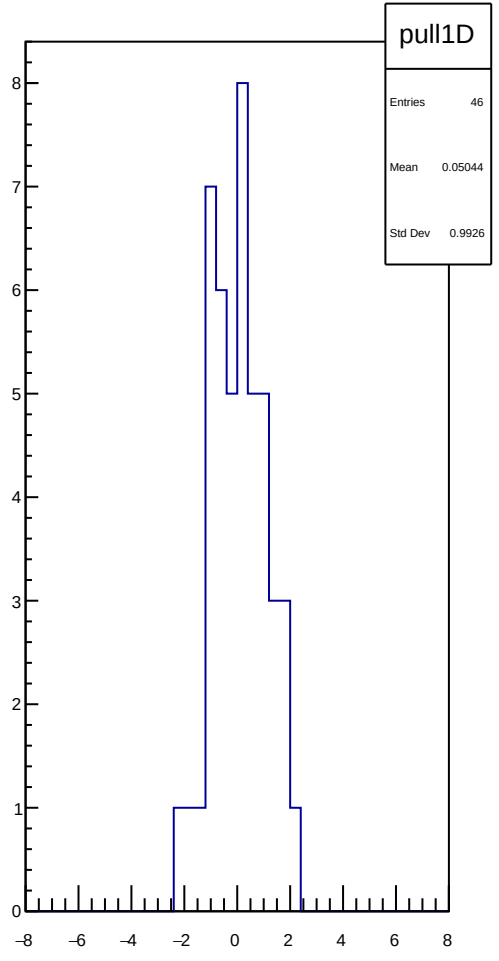

pull1D
Entries 46
Mean 0.002168
Std Dev 1.027

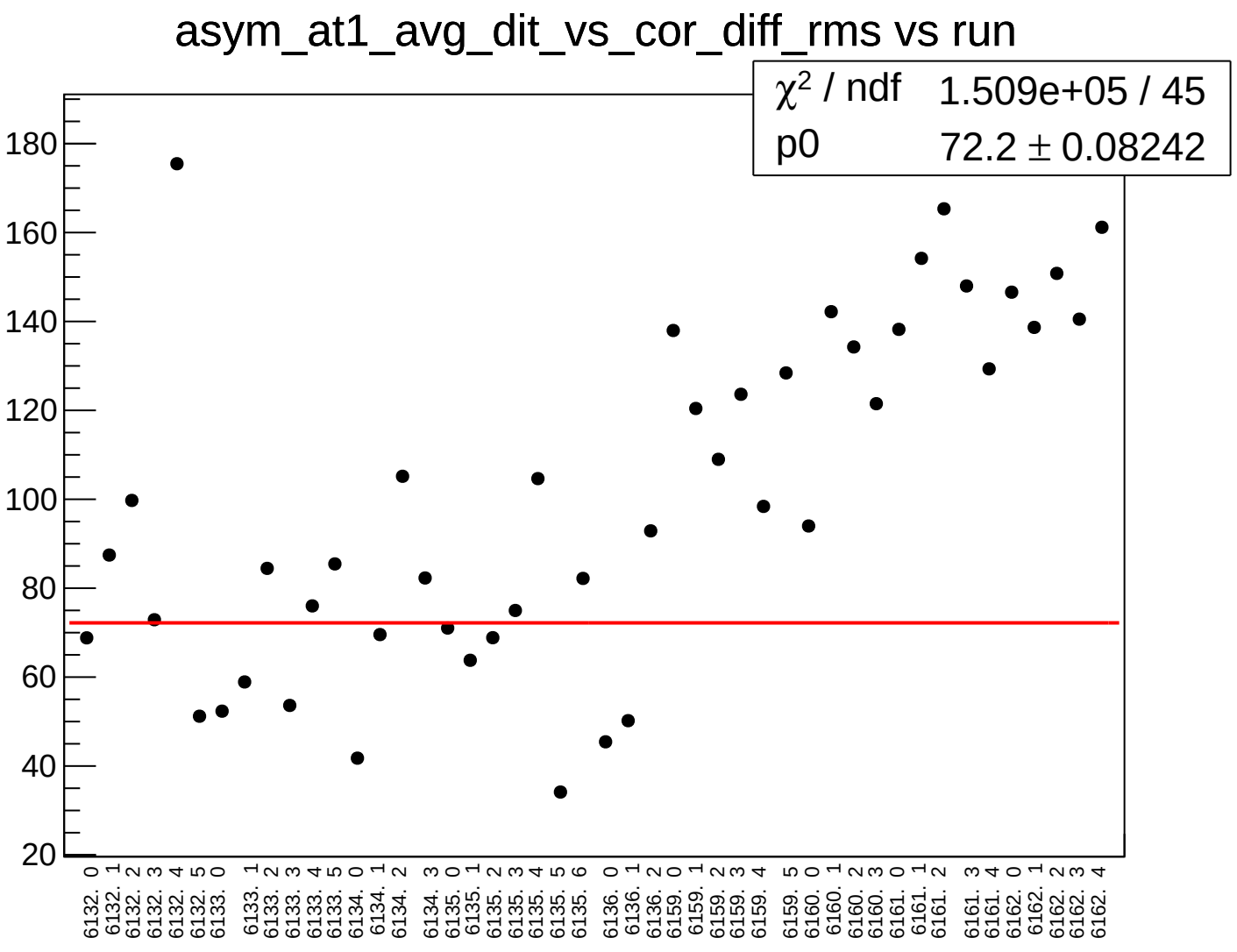

asym_at1_avg_rms vs run
χ² / ndf 2600 / 45
p0 1980 ± 2.069
2300
2200
2100
2000
1900
1800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

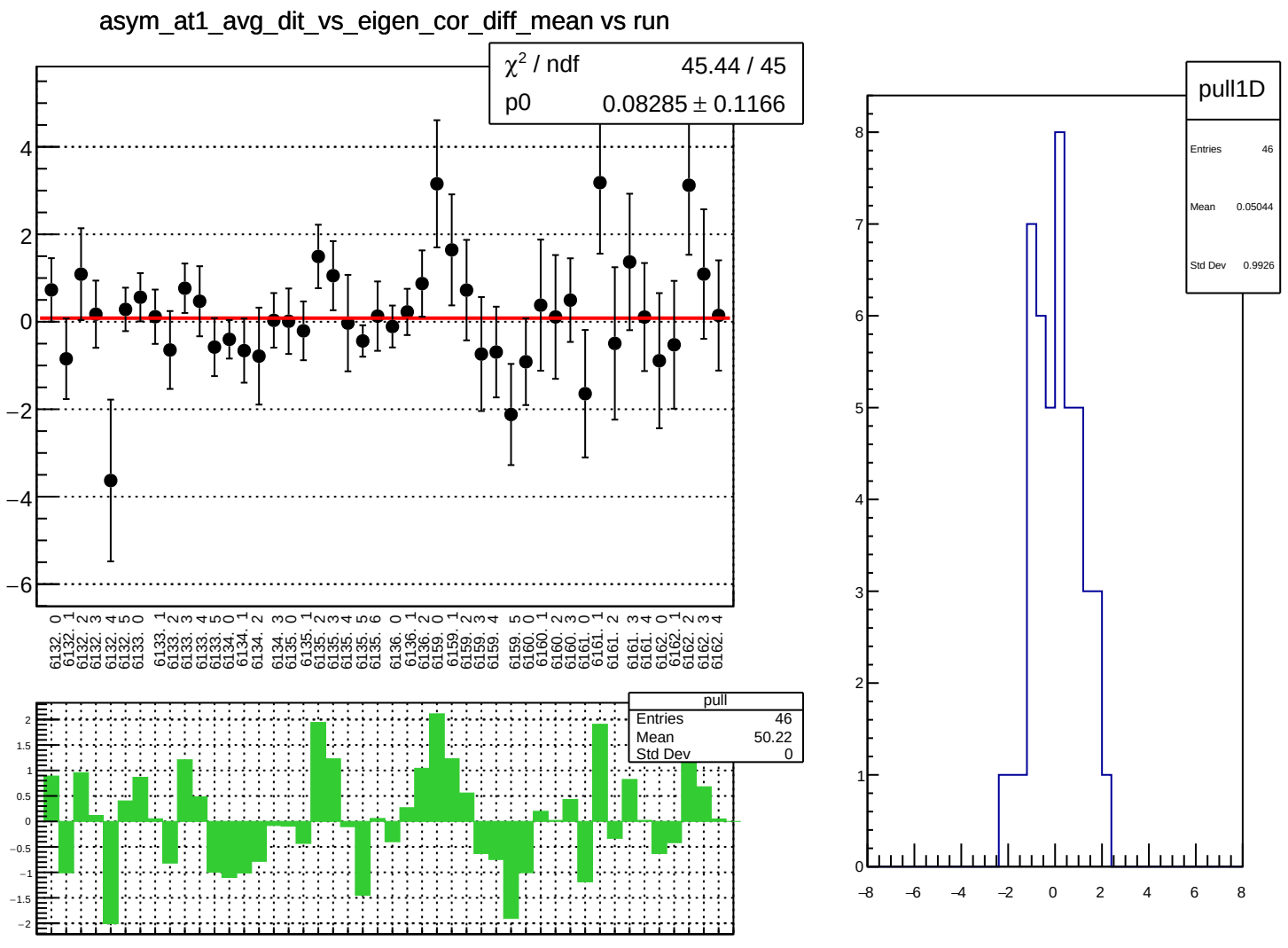

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 48.73 / 45
p0 2.551e−14 ± 7.107e−14
pull
Entries 46
Mean 11.22
Std Dev 22.76
pull1D
Entries 46
Mean 0.06097
Std Dev 1.027

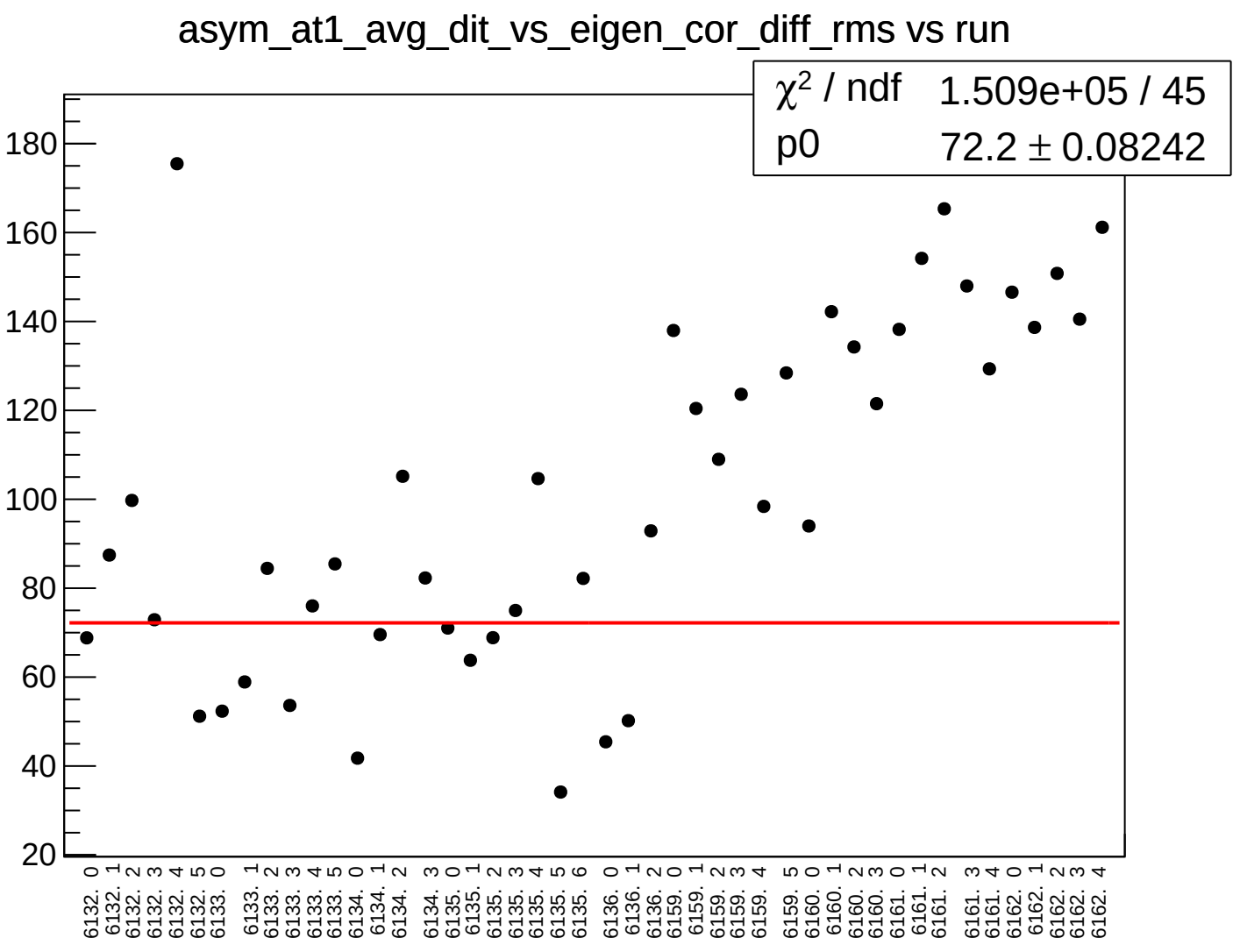

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.336e+05 / 45
p0 2.681e−11 ± 5.026e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

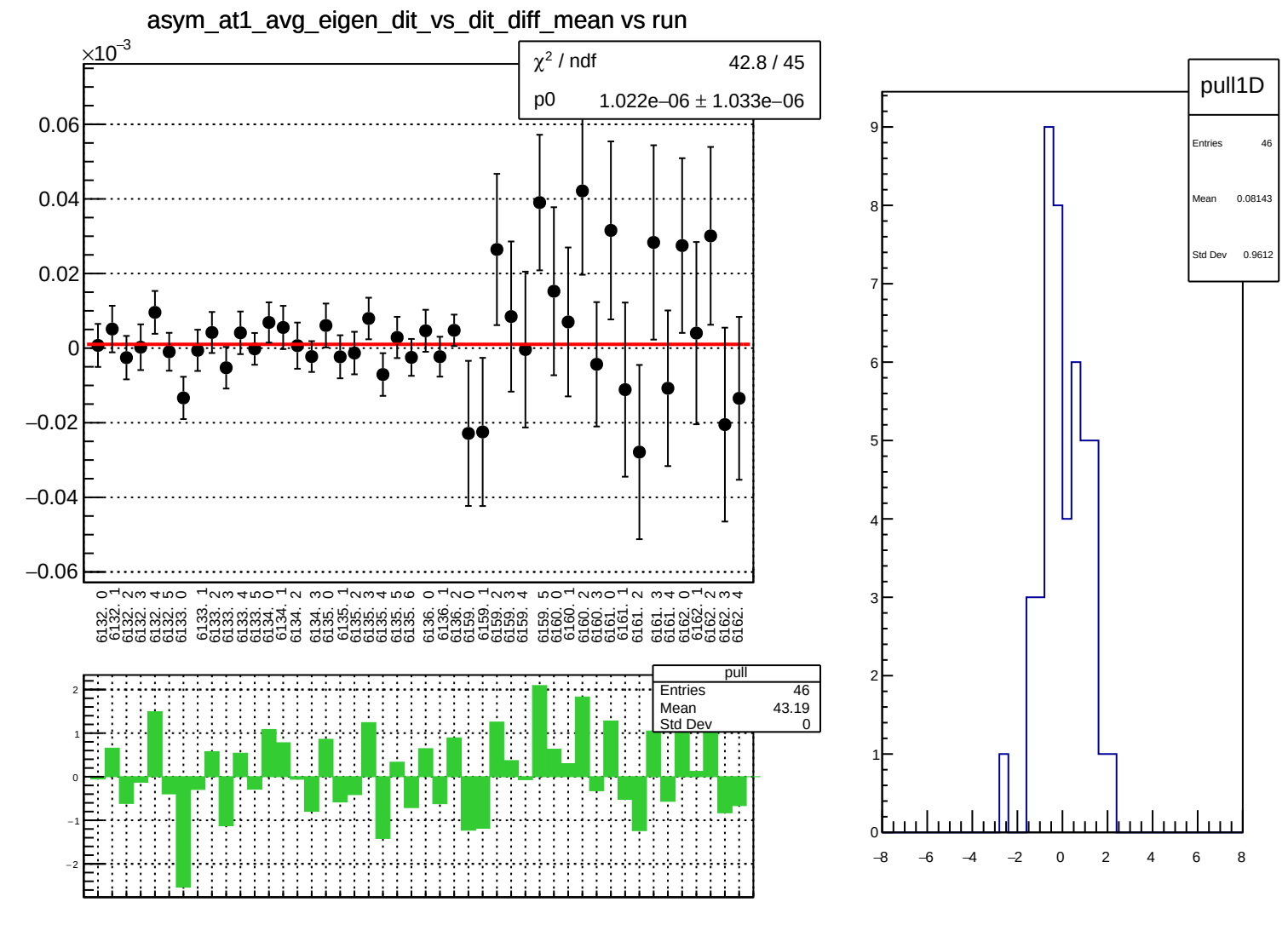

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 45.44 / 45
p0 0.08285 ± 0.1166
pull
Entries 46
Mean 50.22
Std Dev 0

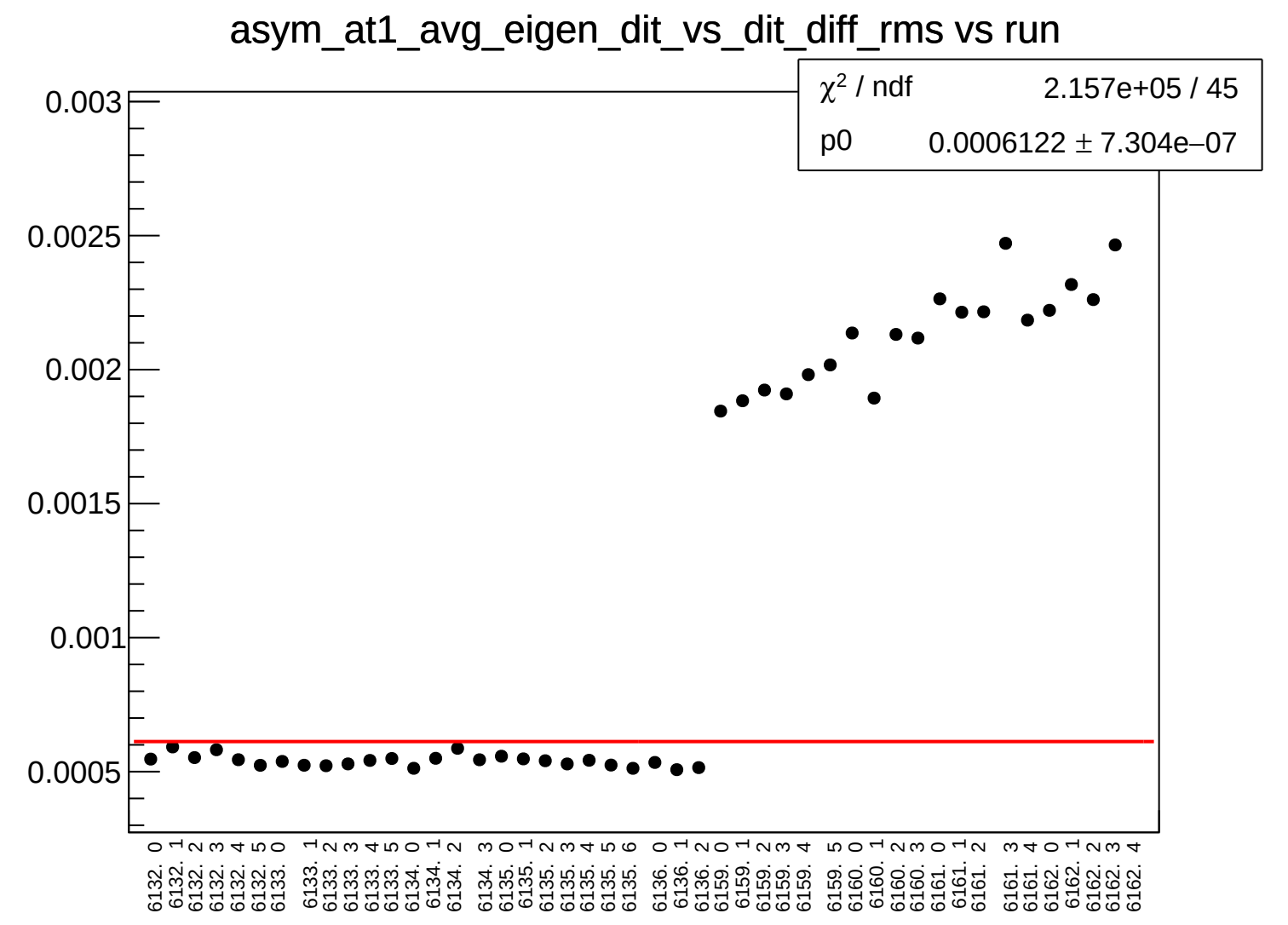

pull1D
Entries 46
Mean 0.05044
Std Dev 0.9926


asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.509e+05 / 45
p0 72.2 ± 0.08242
180
160
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.44 / 45
p0 0.08285 ± 0.1166
pull
Entries 46
Mean 50.22
Std Dev 0
pull1D
Entries 46
Mean 0.05044
Std Dev 0.9926


asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.509e+05 / 45
p0 72.2 ± 0.08242
180
160
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 42.8 / 45
p0 1.022e−06 ± 1.033e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 43.19
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.08143
Std Dev 0.9612
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.157e+05 / 45
p0 0.0006122 ± 7.304e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
6161. 3
6161. 4
6162. 0
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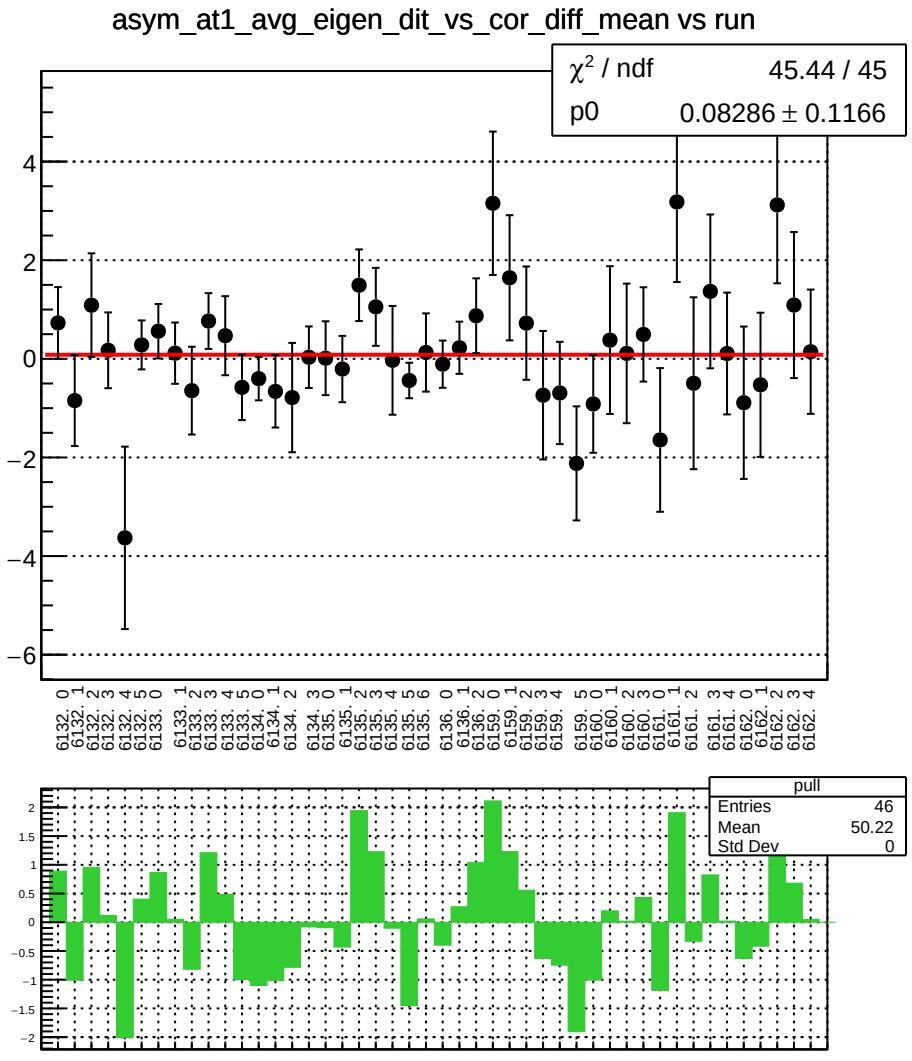
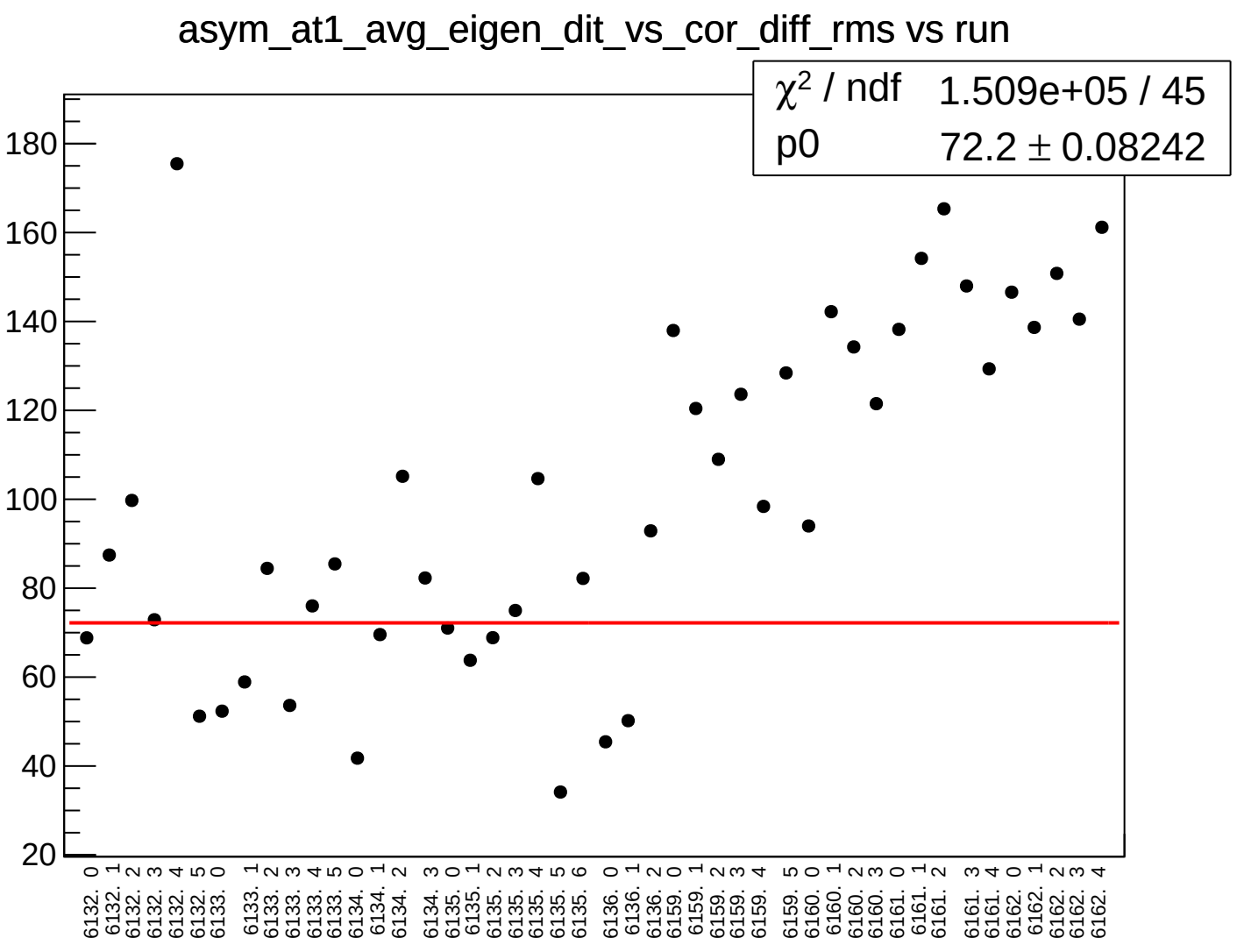
6162. 4


asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 45.44 / 45
p0 0.08286 ± 0.1166
pull
Entries 46
Mean 50.22
Std Dev 0
pull1D
Entries 46
Mean 0.05044
Std Dev 0.9926


asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.509e+05 / 45
p0 72.2 ± 0.08242
180
160
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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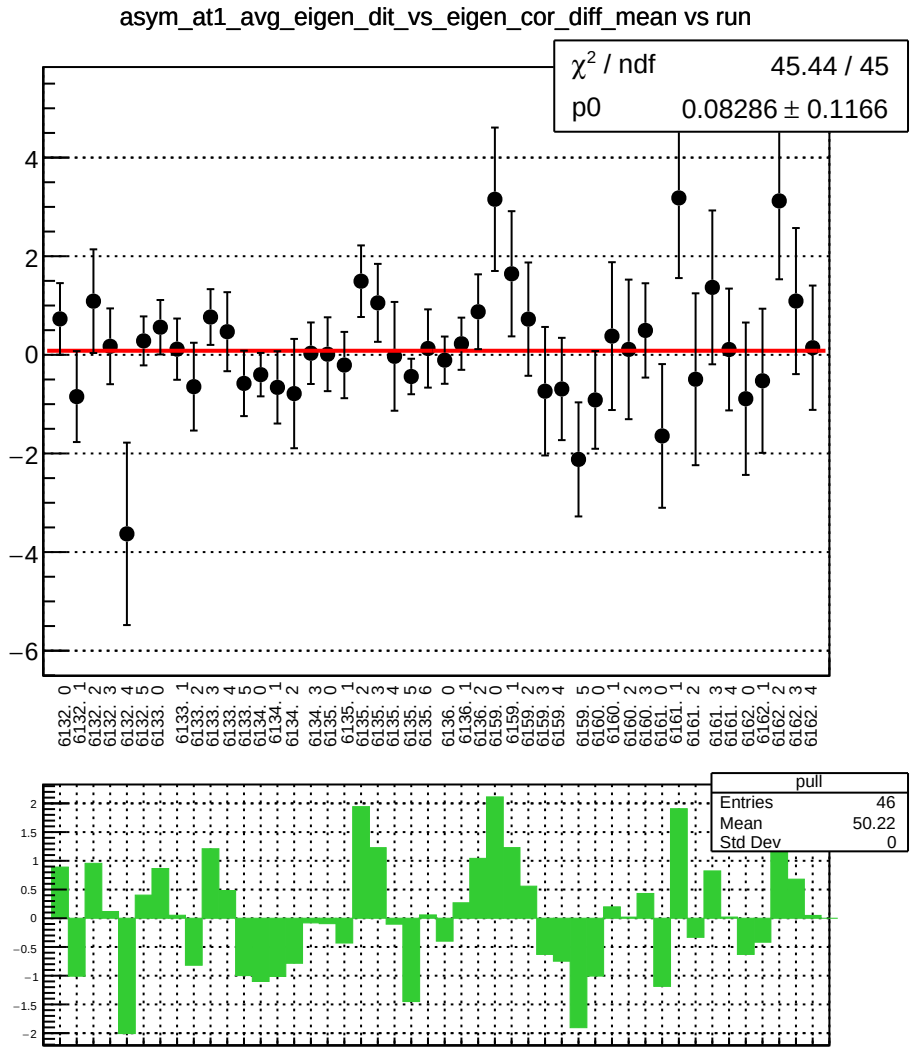
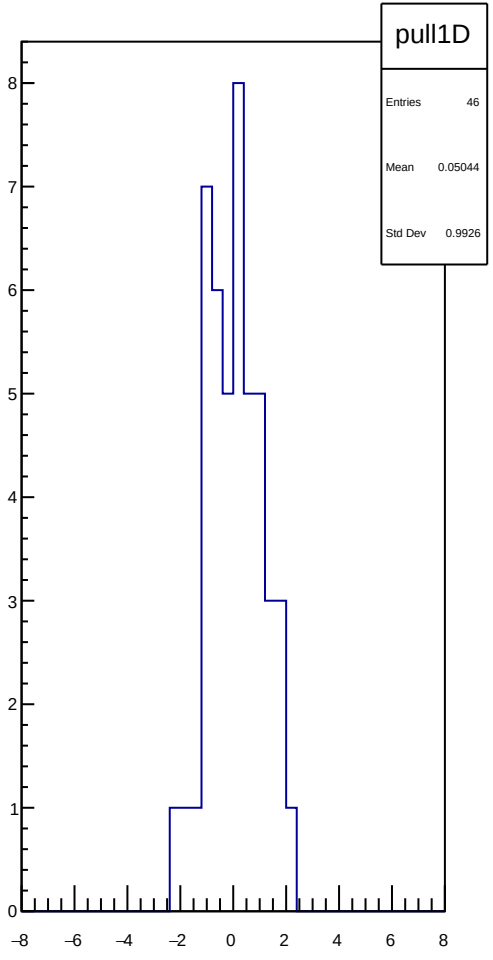
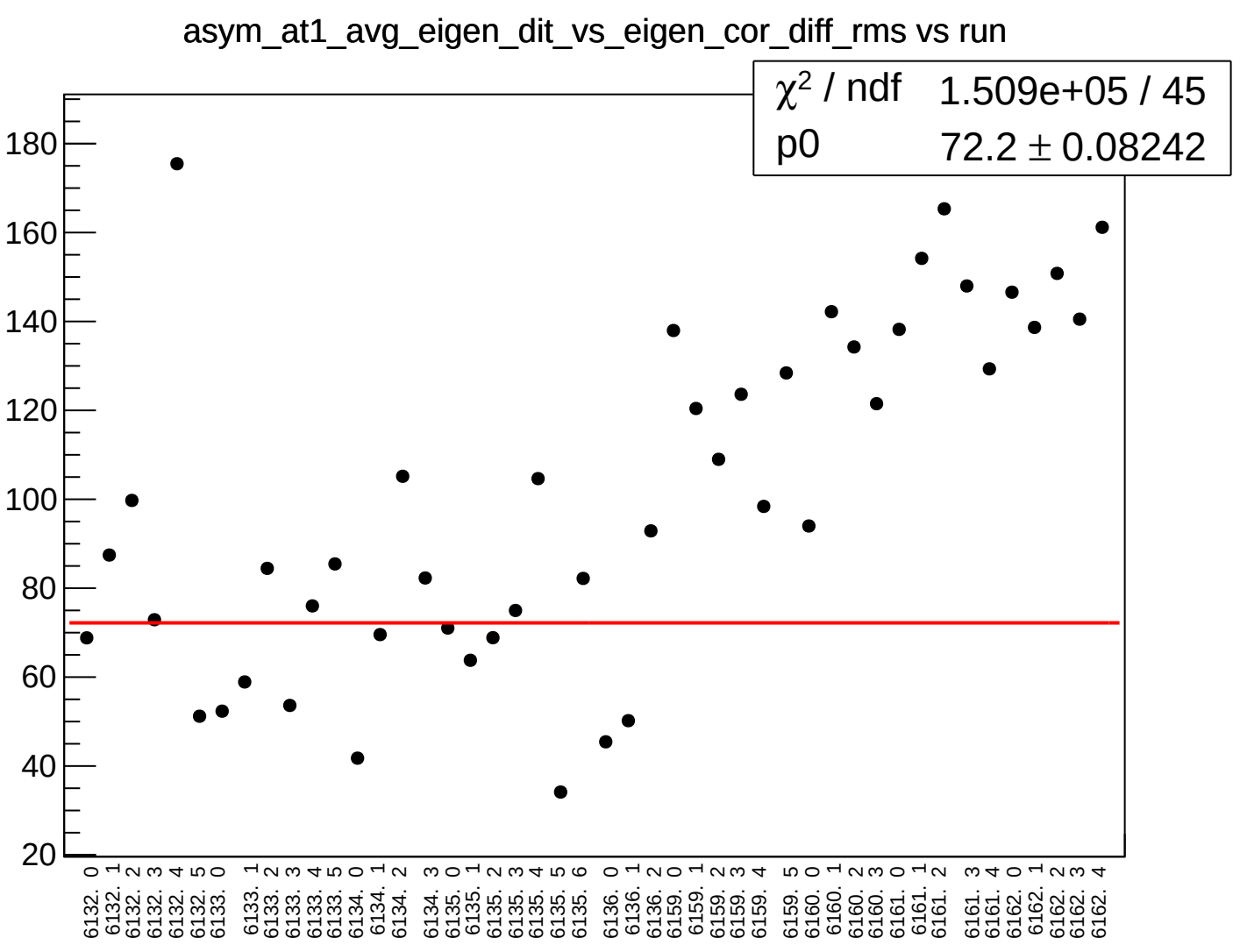
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.44 / 45
p0 0.08286 ± 0.1166
pull
Entries 46
Mean 50.22
Std Dev 0


pull1D
Entries 46
Mean 0.05044
Std Dev 0.9926


asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.509e+05 / 45
p0 72.2 ± 0.08242
180
160
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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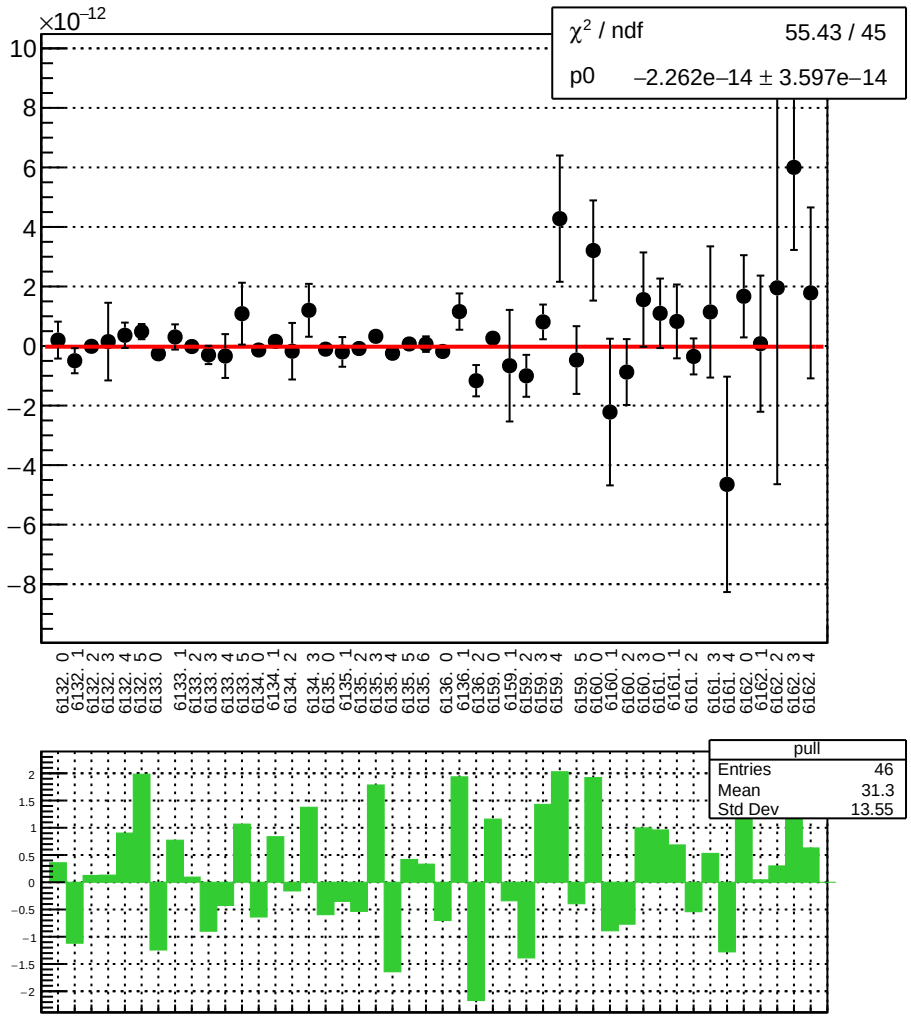
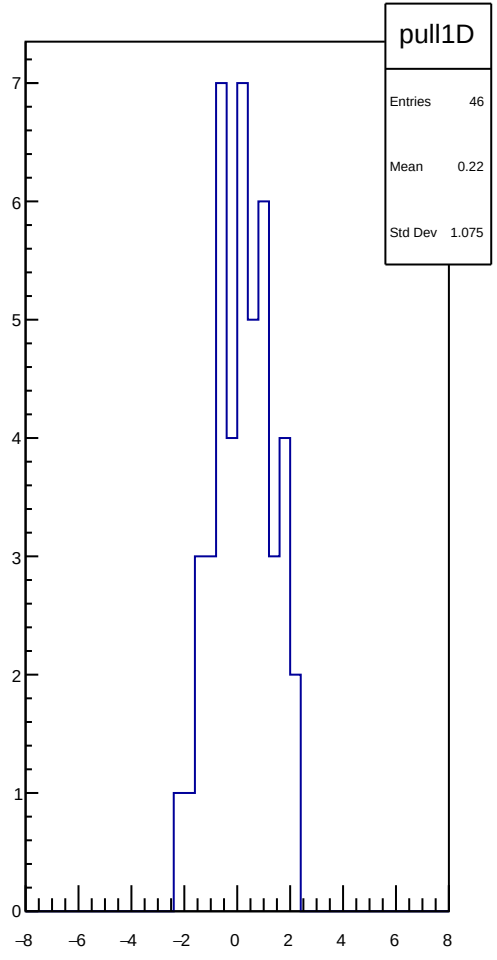
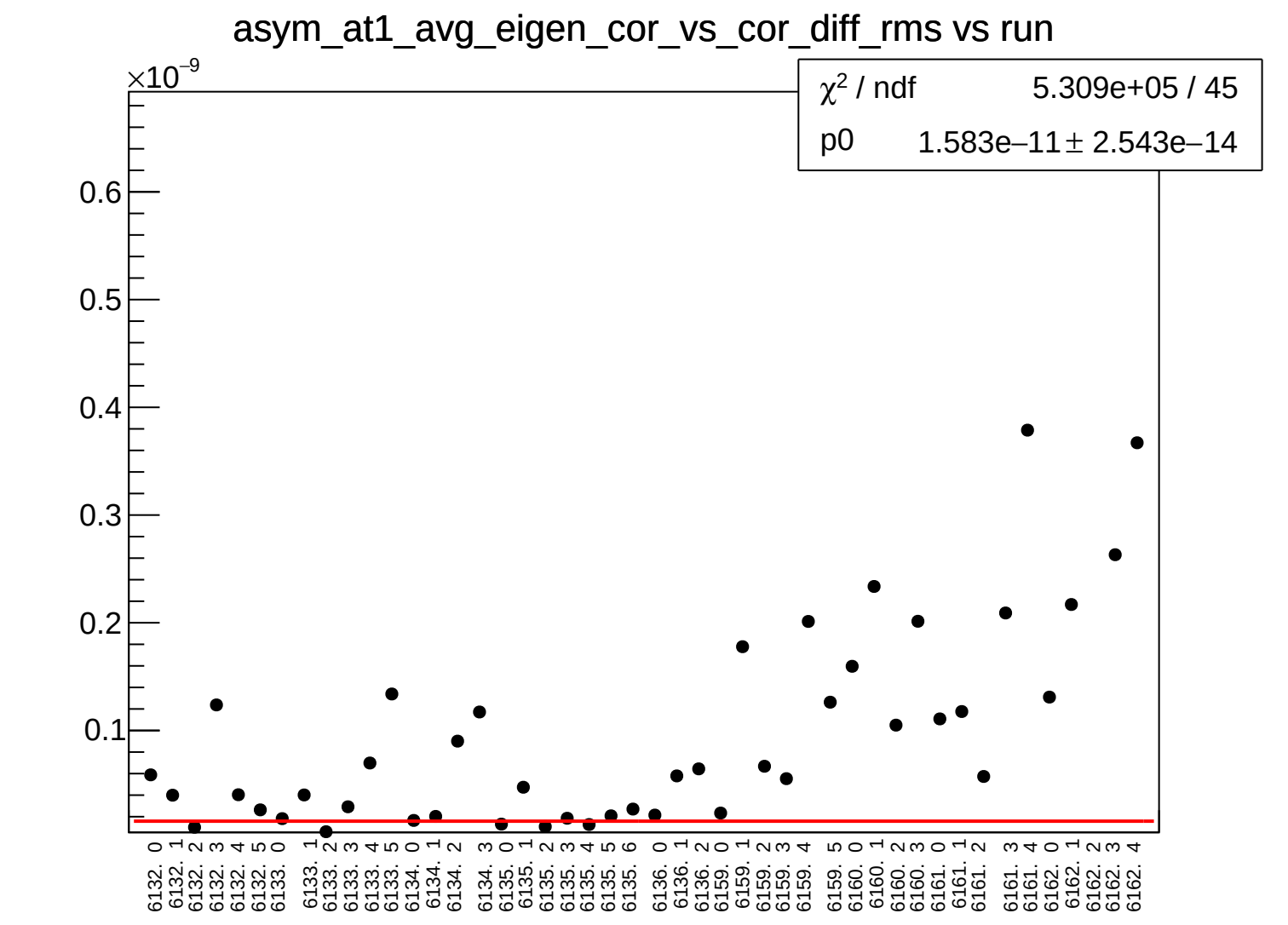
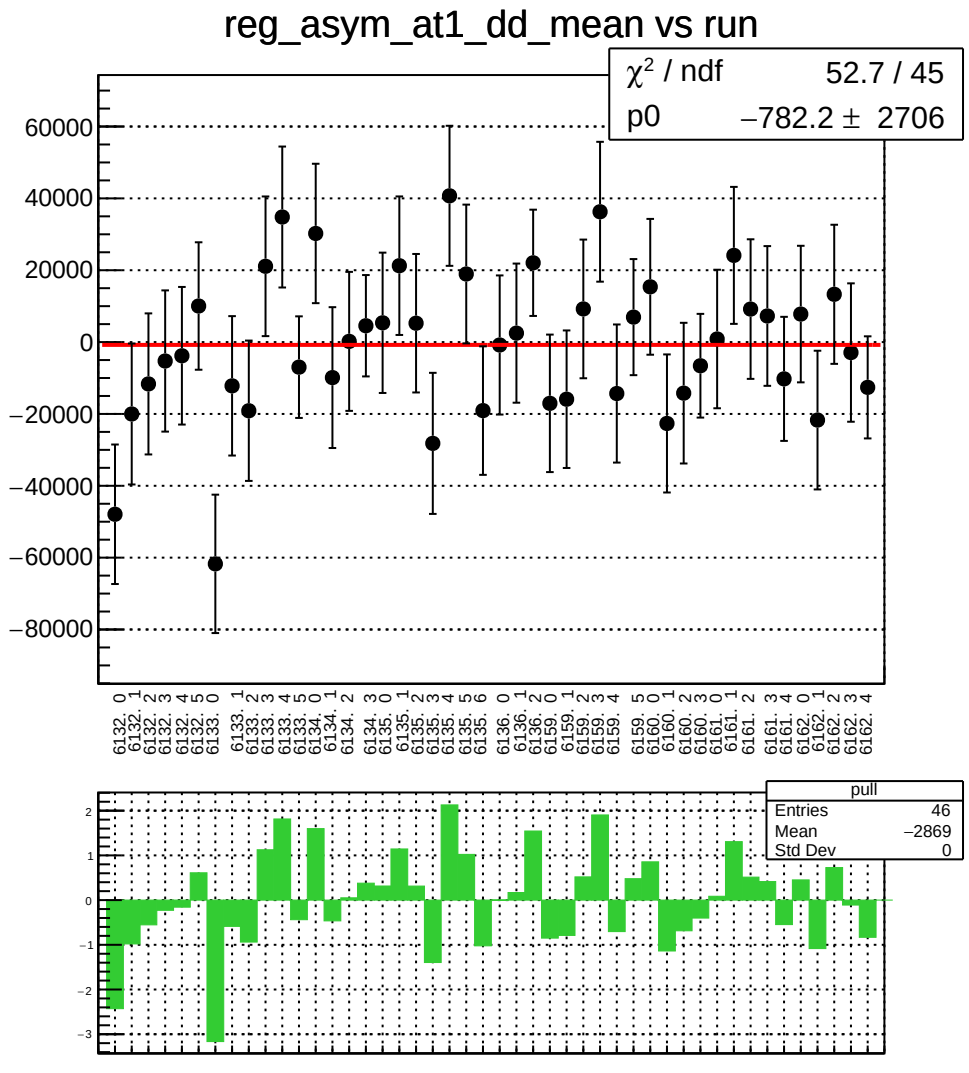
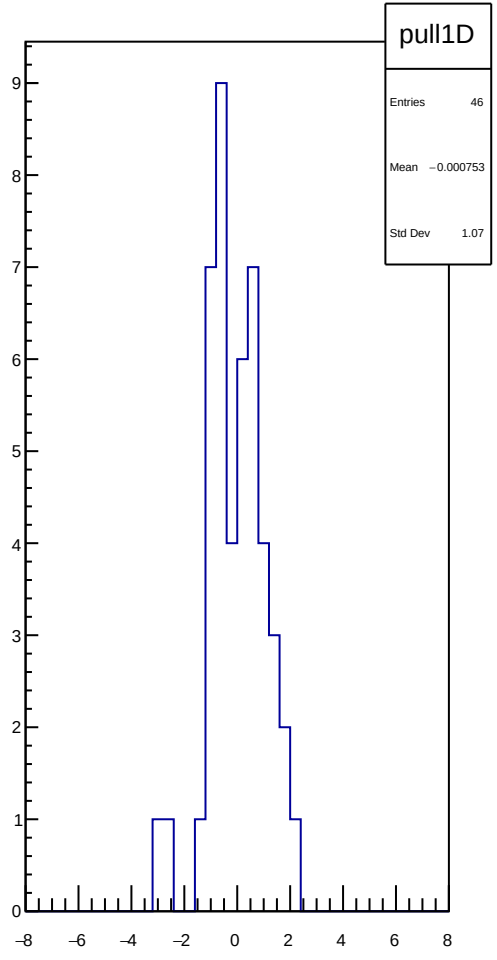
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

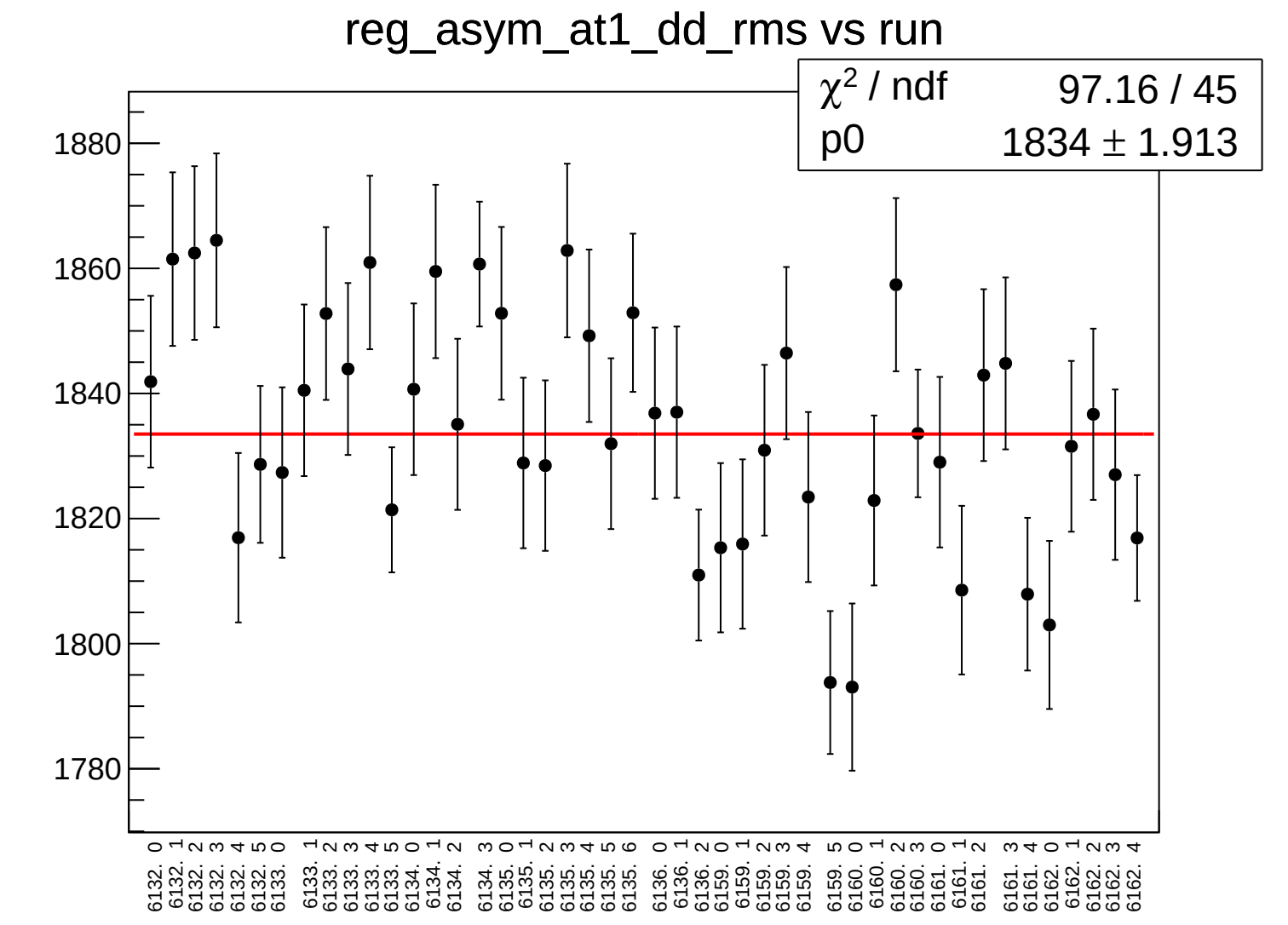

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 55.43 / 45
p0 −2.262e−14 ± 3.597e−14
pull
Entries 46
Mean 31.3
Std Dev 13.55


pull1D
Entries 46
Mean 0.22
Std Dev 1.075


asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.309e+05 / 45
p0 1.583e−11 ± 2.543e−14
0.6
0.5
0.4
0.3
0.2
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_at1_dd_mean vs run
χ² / ndf 52.7 / 45
p0 −782.2 ± 2706
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −2869
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean −0.000753
Std Dev 1.07
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_dd_rms vs run
χ² / ndf 97.16 / 45
p0 1834 ± 1.913
1880
1860
1840
1820
1800
1780
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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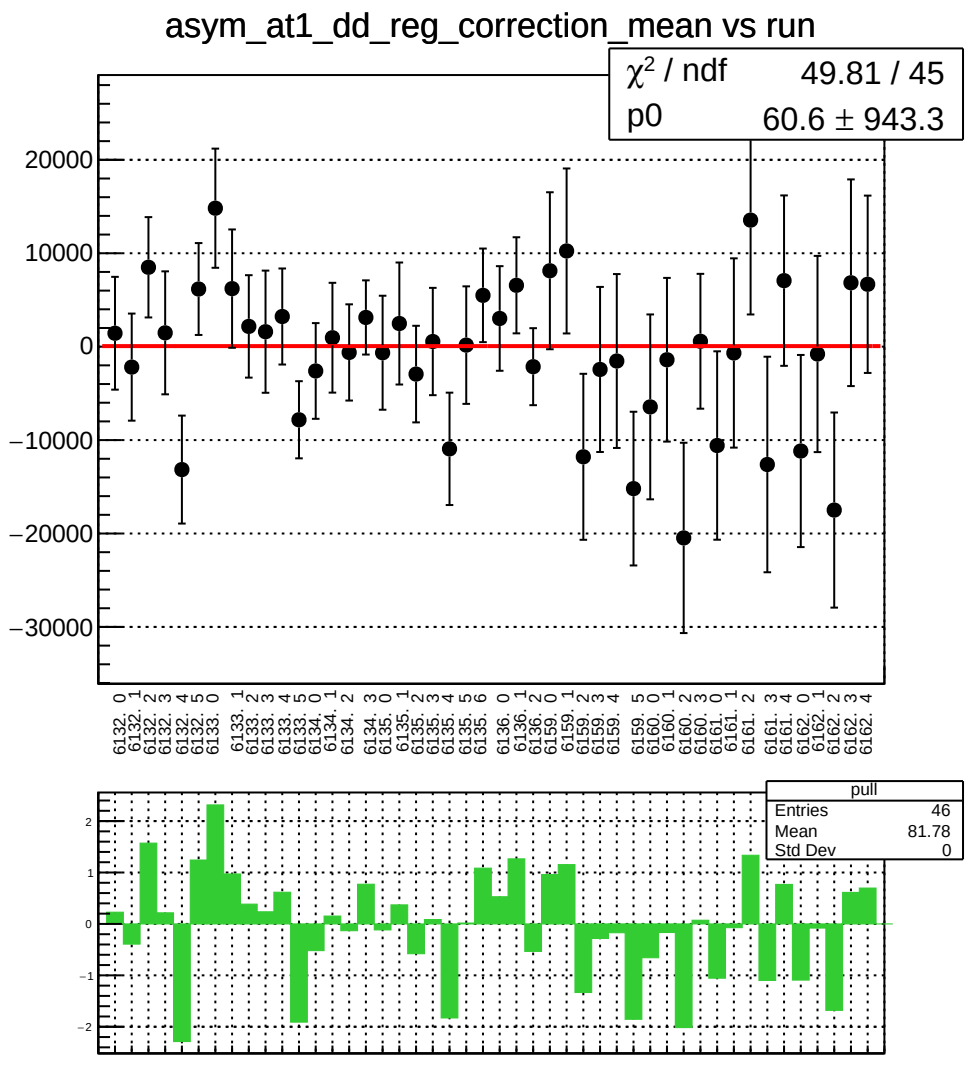
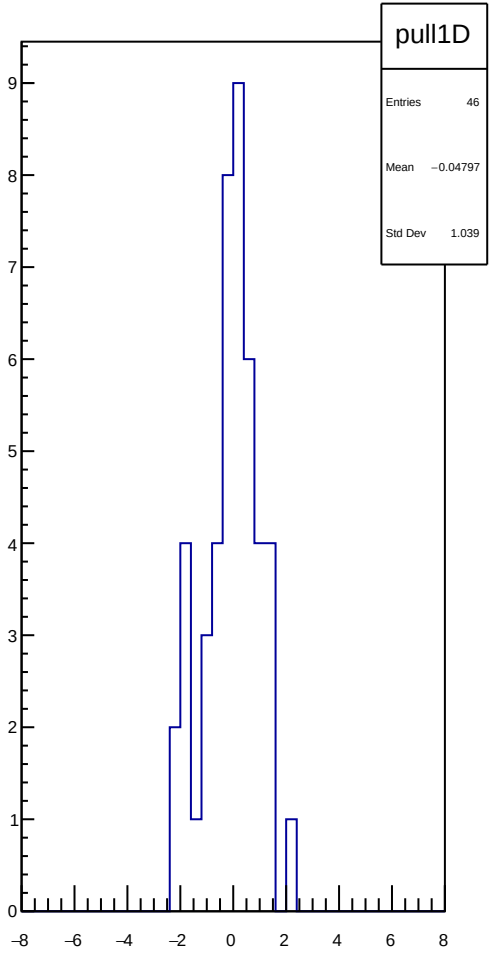
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_at1_dd_reg_correction_mean vs run
χ² / ndf 49.81 / 45
p0 60.6 ± 943.3
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 81.78
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.04797
Std Dev 1.039
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8
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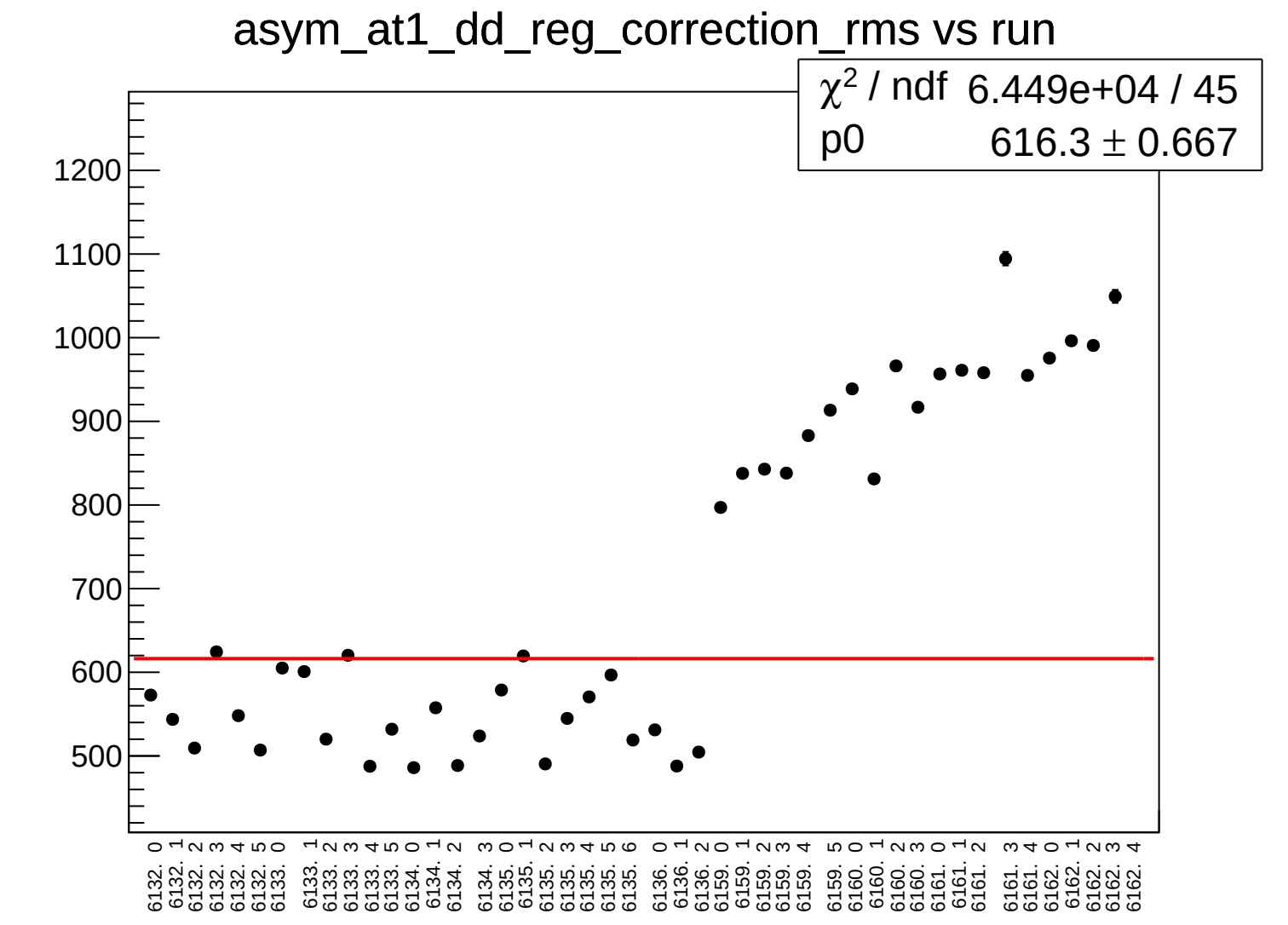
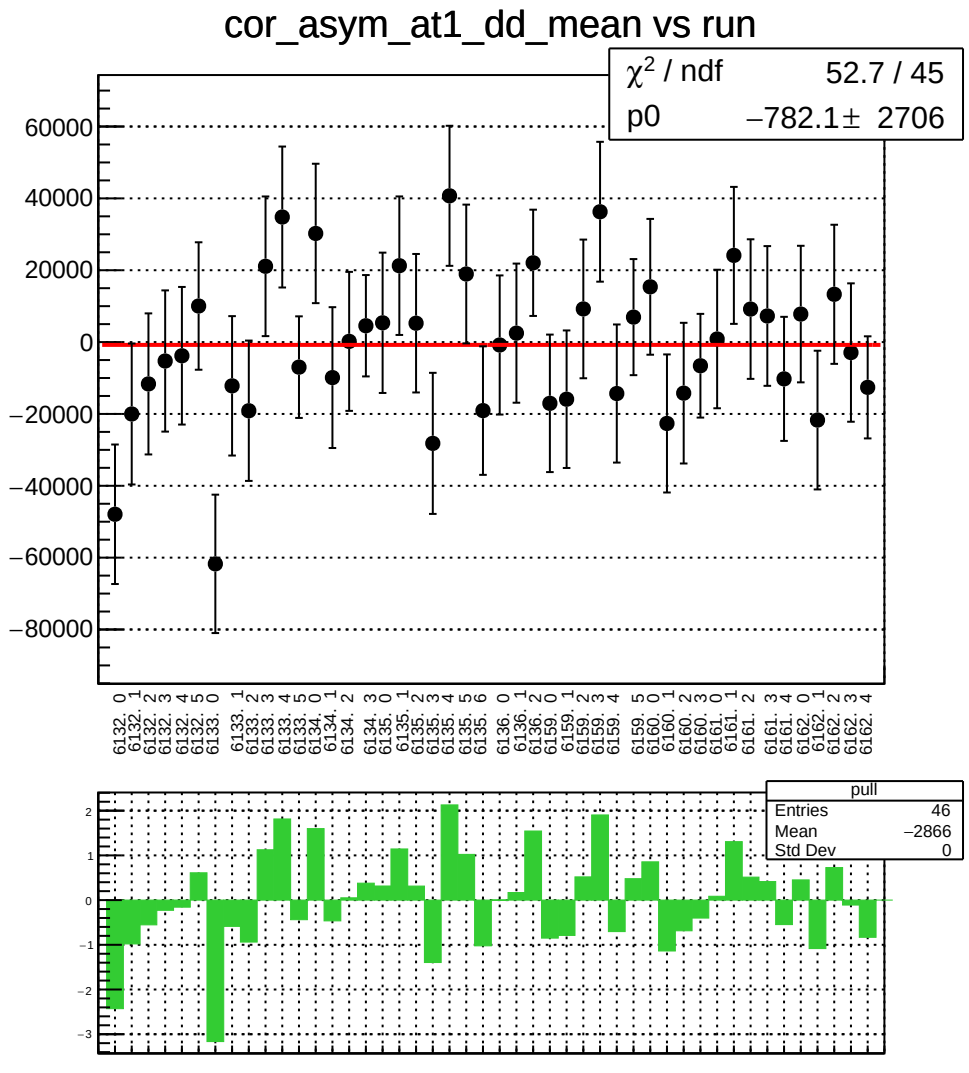
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_reg_correction_rms vs run
χ² / ndf 6.449e+04 / 45
p0 616.3 ± 0.667
1200
1100
1000
900
800
700
600
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_at1_dd_mean vs run
χ² / ndf 52.7 / 45
p0 −782.1± 2706
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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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6159. 5
6160. 0
6160. 1
6160. 2
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6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
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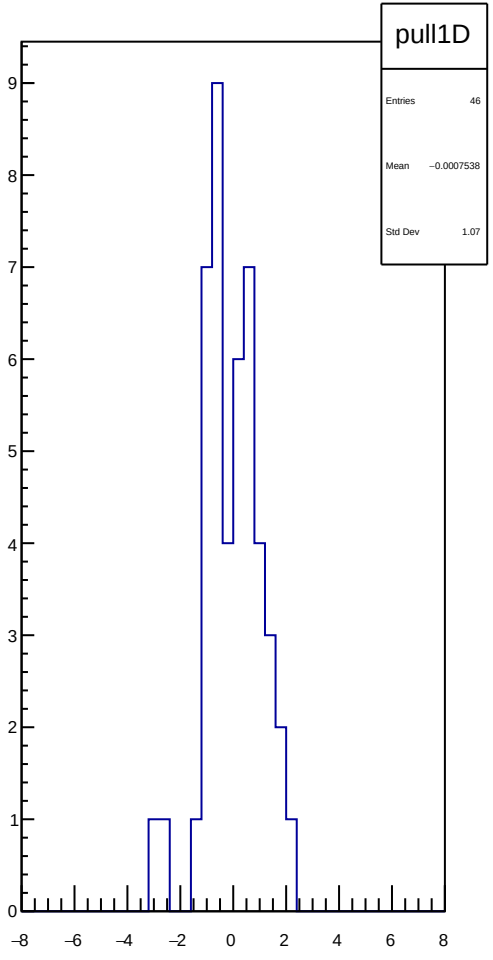
6162. 3
6162. 4
pull
Entries 46
Mean −2866
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean −0.0007538
Std Dev 1.07
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5
4
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2
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−8
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−4
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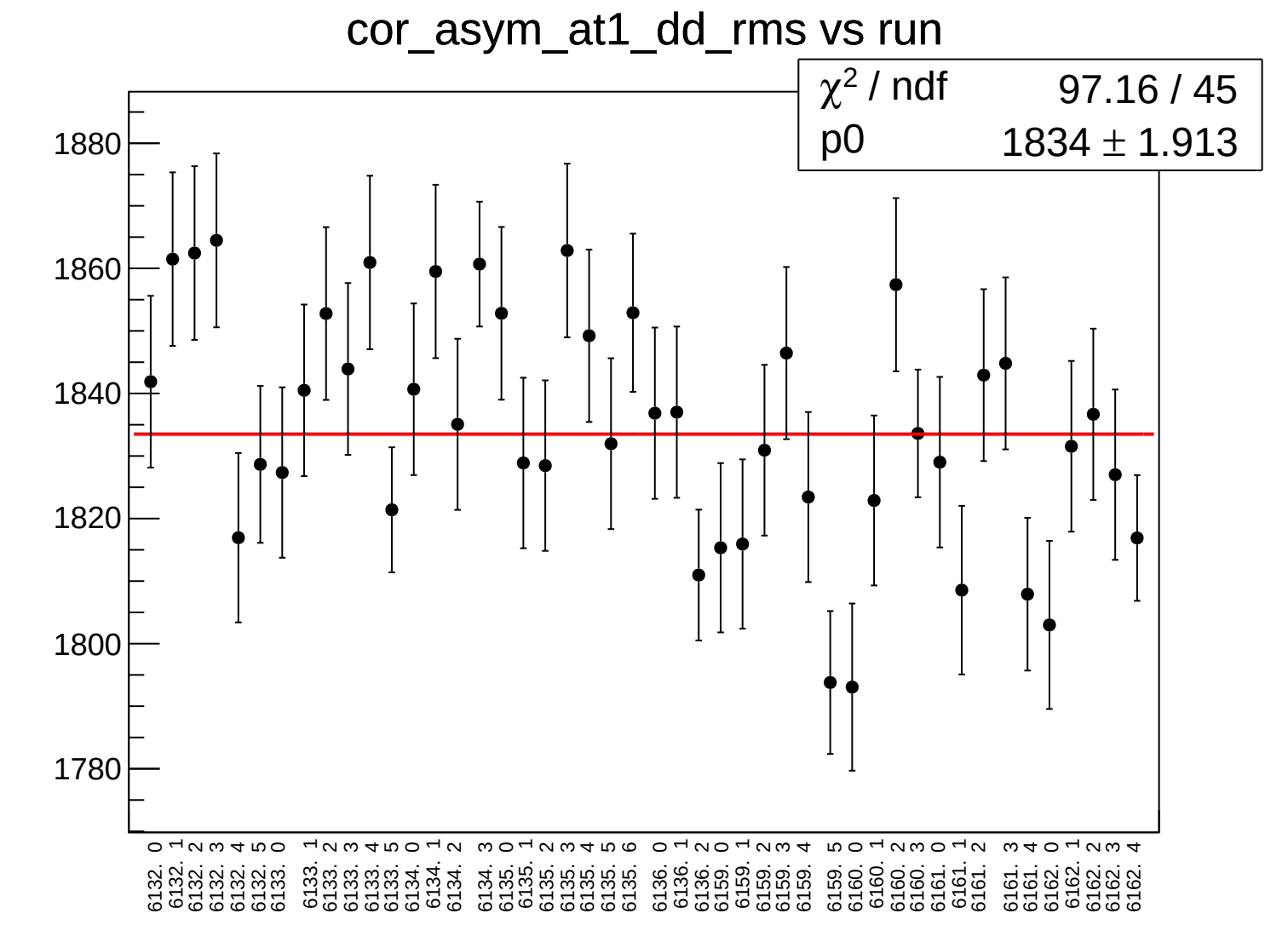
2
4
6
8


cor_asym_at1_dd_rms vs run
χ² / ndf 97.16 / 45
p0 1834 ± 1.913
1880
1860
1840
1820
1800
1780
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
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6134. 3
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
6161. 3
6161. 4
6162. 0
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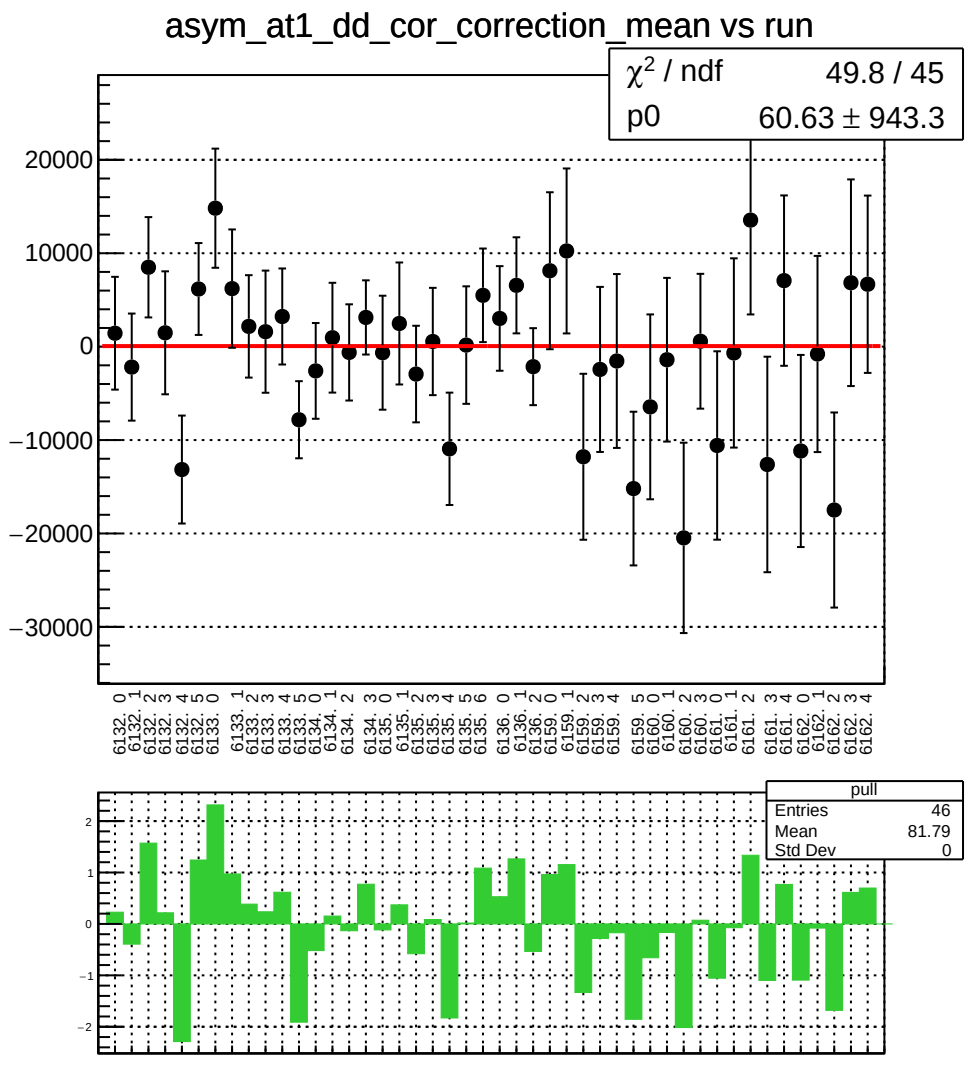
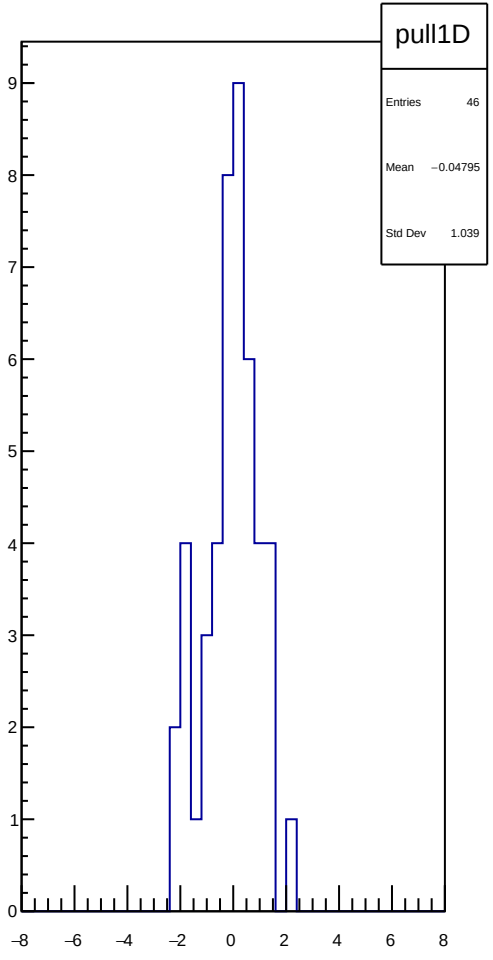
6162. 3
6162. 4


asym_at1_dd_cor_correction_mean vs run
χ² / ndf 49.8 / 45
p0 60.63 ± 943.3
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 81.79
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.04795
Std Dev 1.039
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5
4
3
2
1
0
−8
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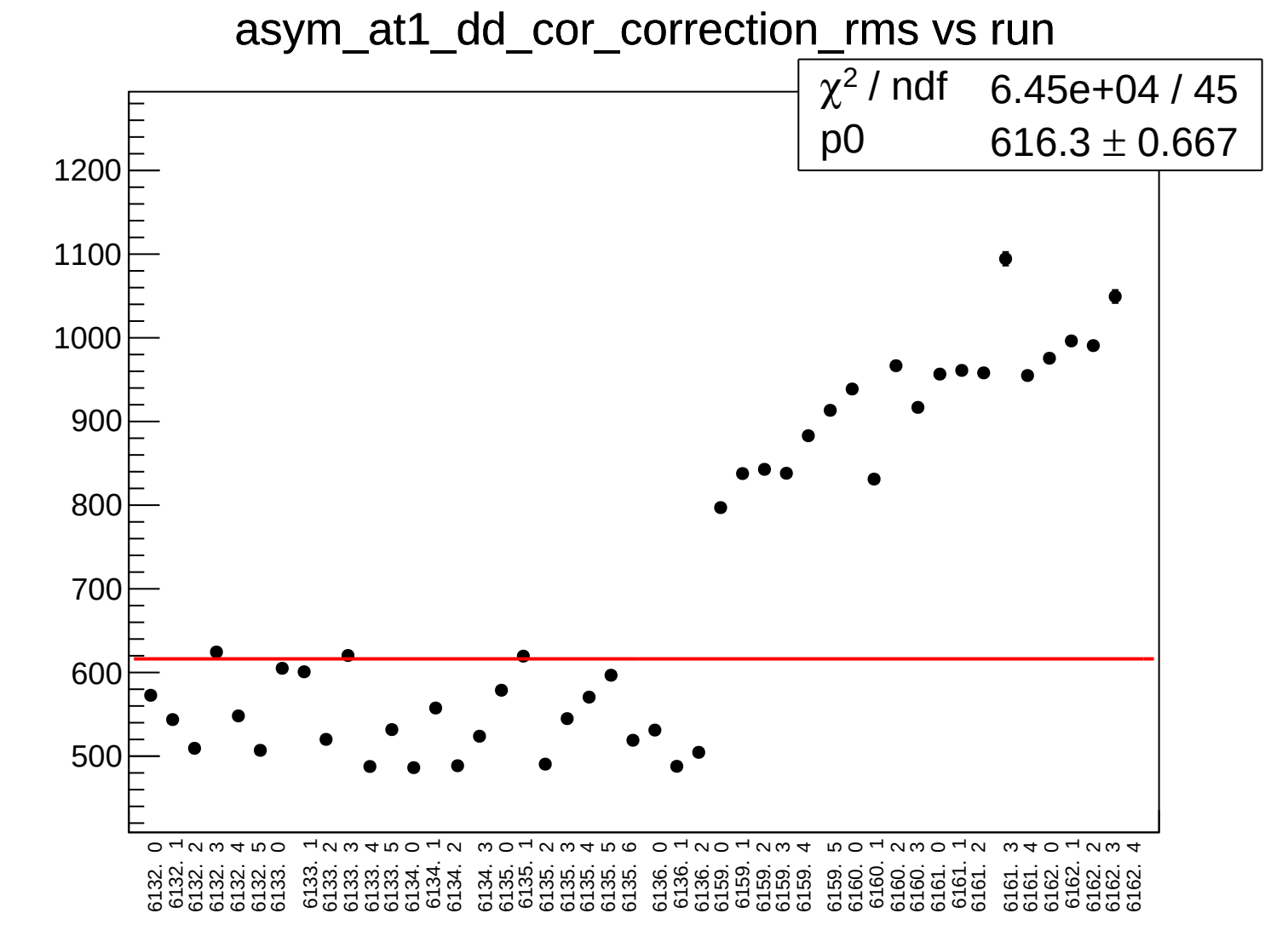
−4
−2
0
2
4
6
8


asym_at1_dd_cor_correction_rms vs run
χ² / ndf 6.45e+04 / 45
p0 616.3 ± 0.667
1200
1100
1000
900
800
700
600
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
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6159. 3
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6160. 0
6160. 1
6160. 2
6160. 3
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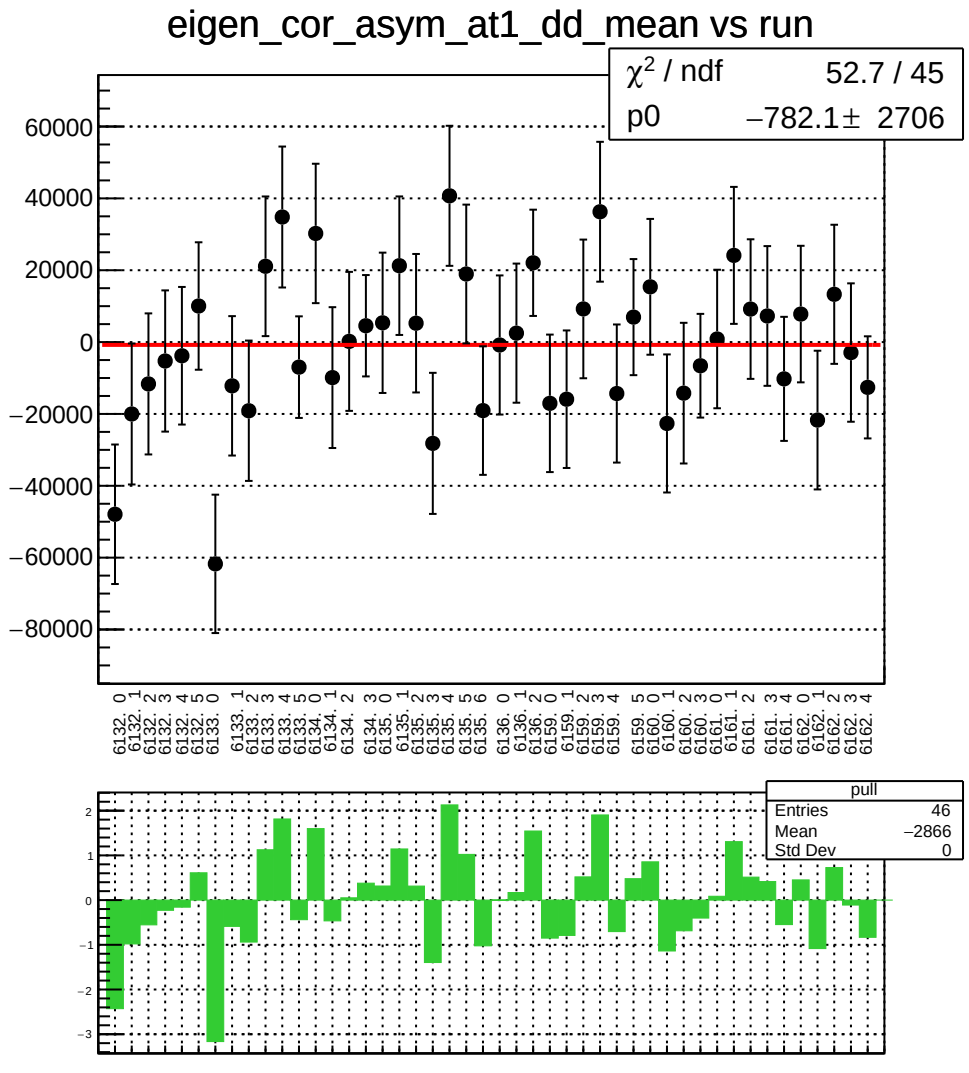
6162. 4


eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 52.7 / 45
p0 −782.1± 2706
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
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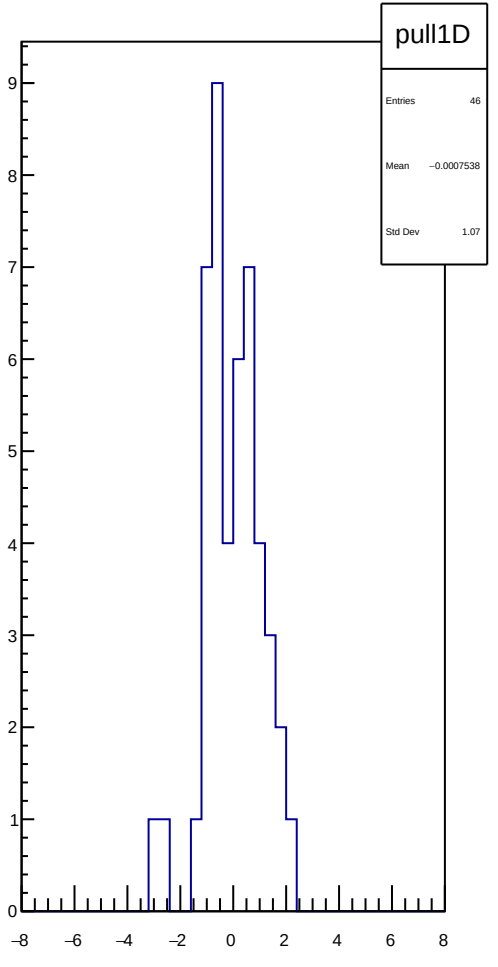
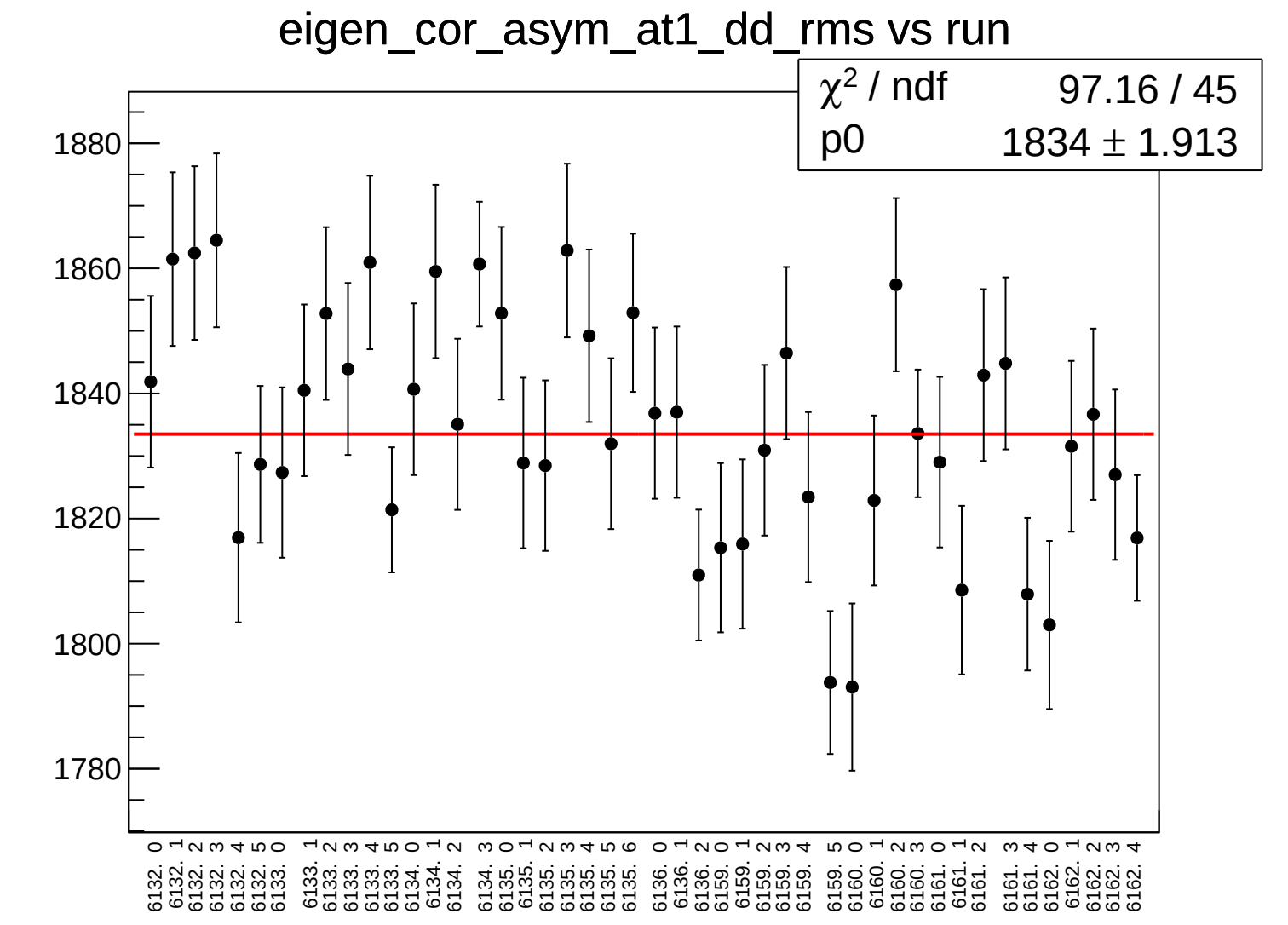
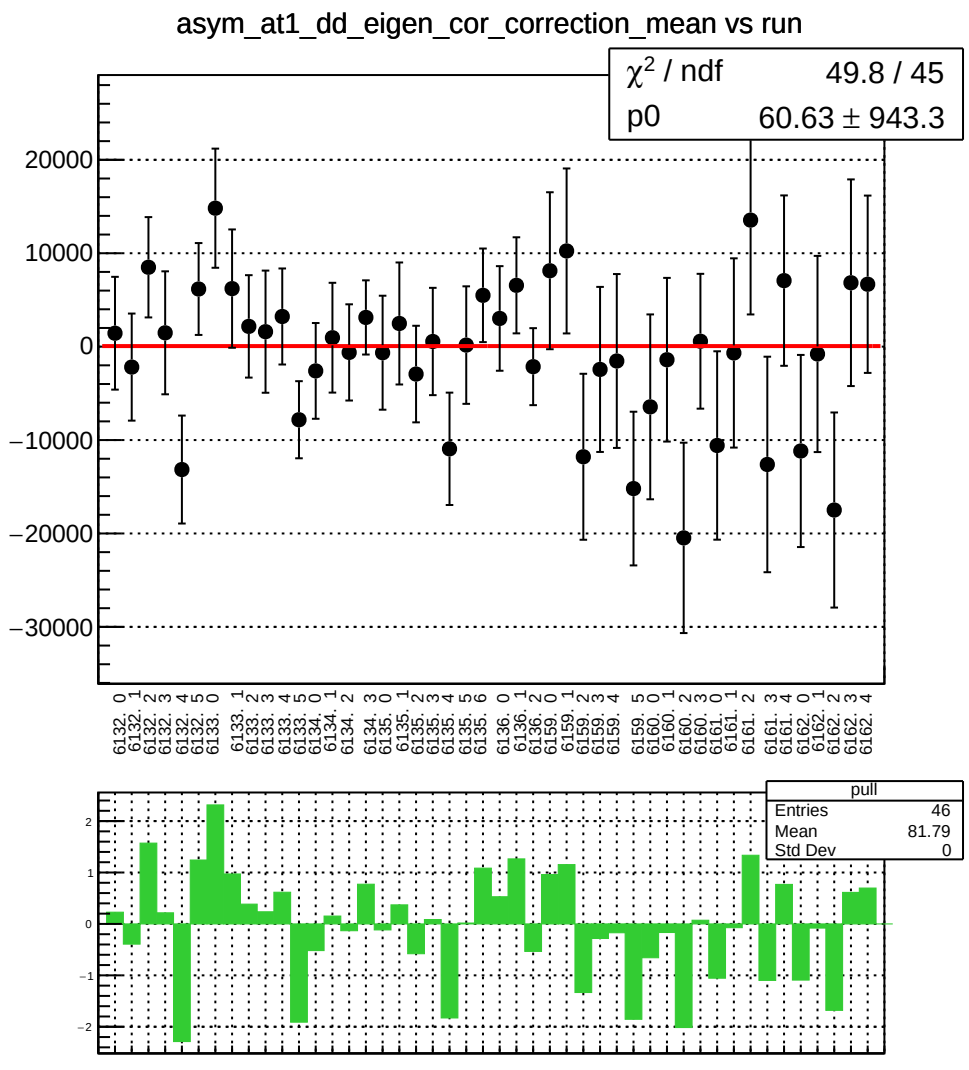
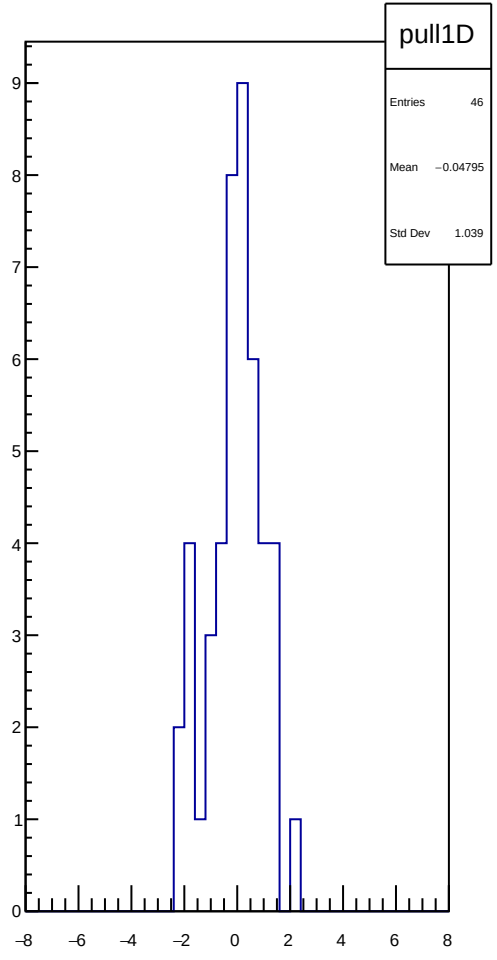
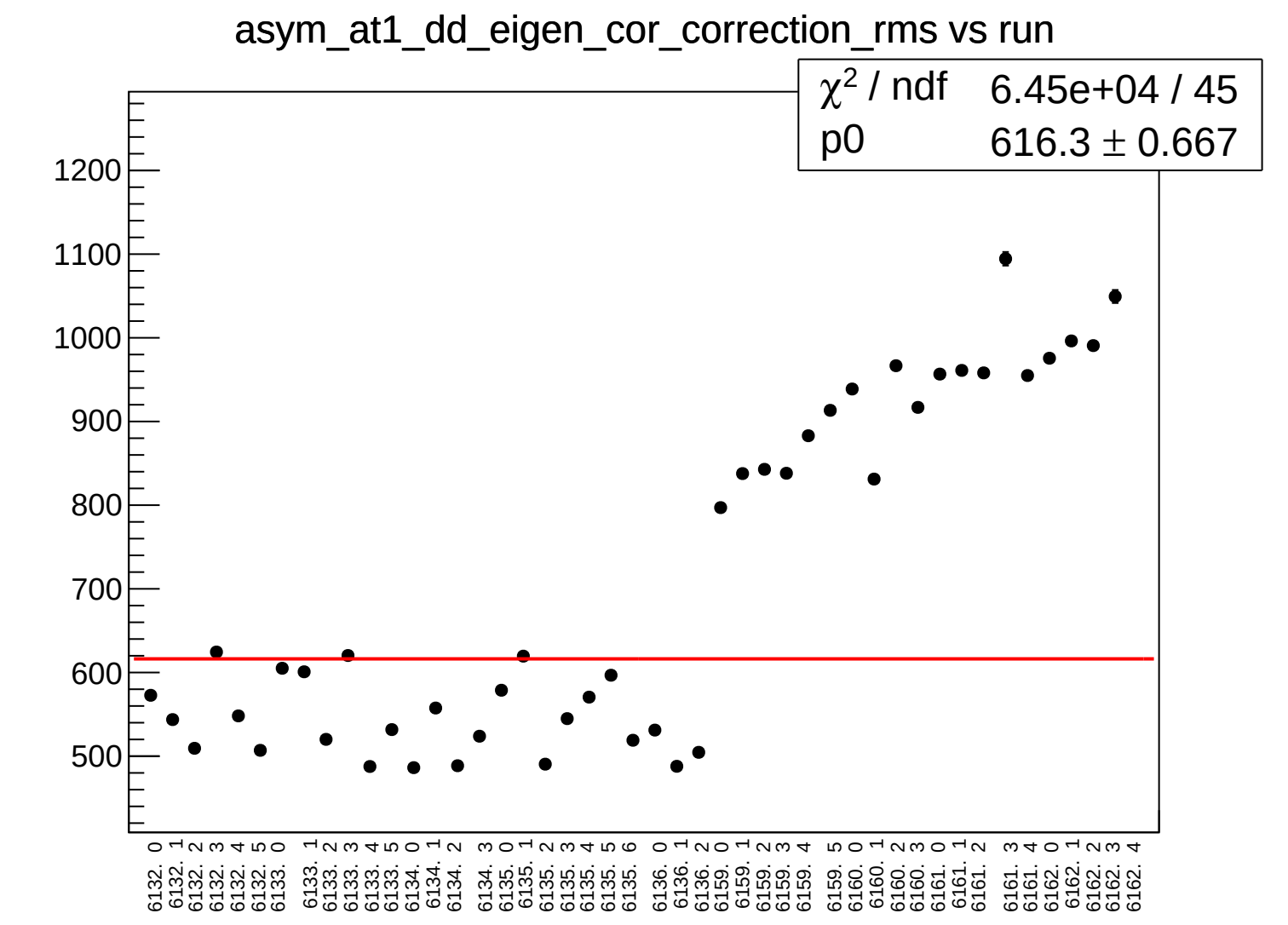
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −2866
Std Dev 0
2
1
0
−1
−2
−3

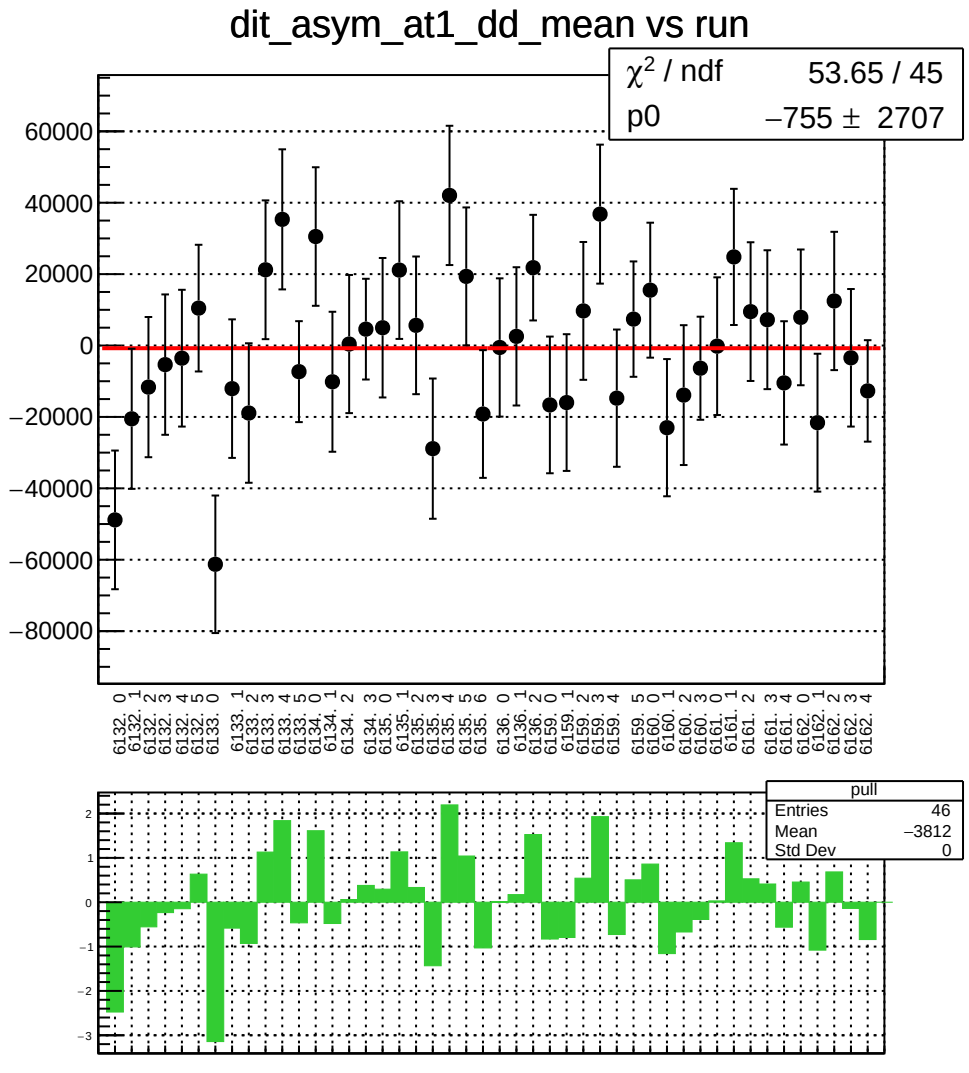

pull1D
Entries 46
Mean −0.0007538
Std Dev 1.07
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

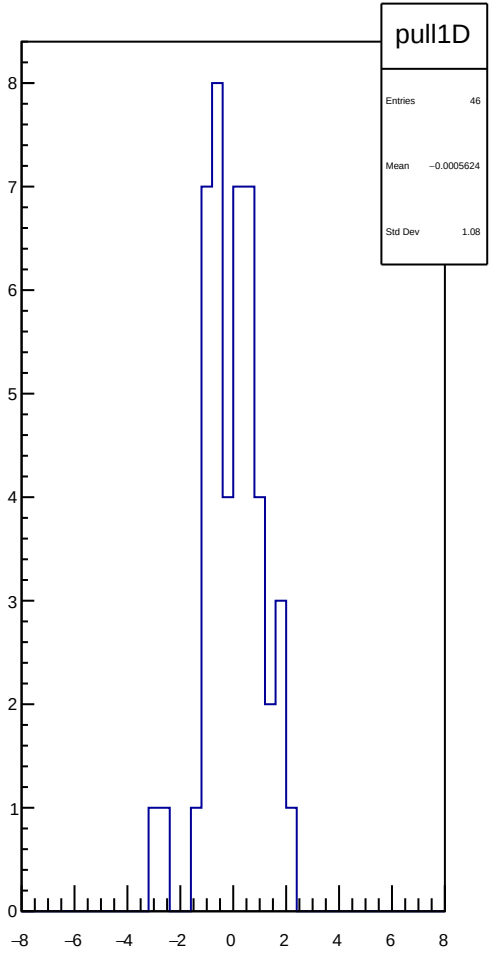

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 97.16 / 45
p0 1834 ± 1.913
1880
1860
1840
1820
1800
1780
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

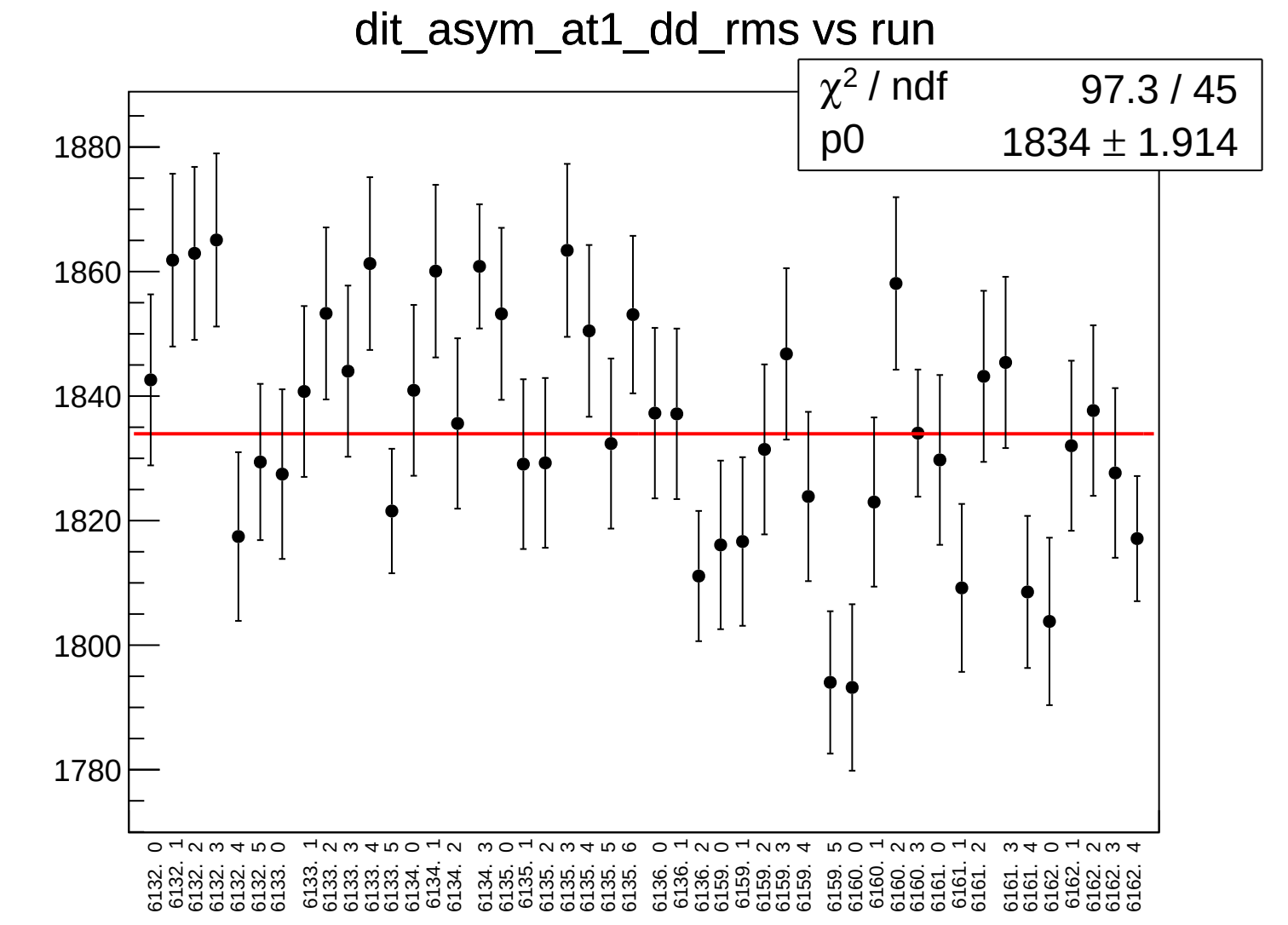

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 49.8 / 45
p0 60.63 ± 943.3
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 81.79
Std Dev 0
2
1
0
−1
−2

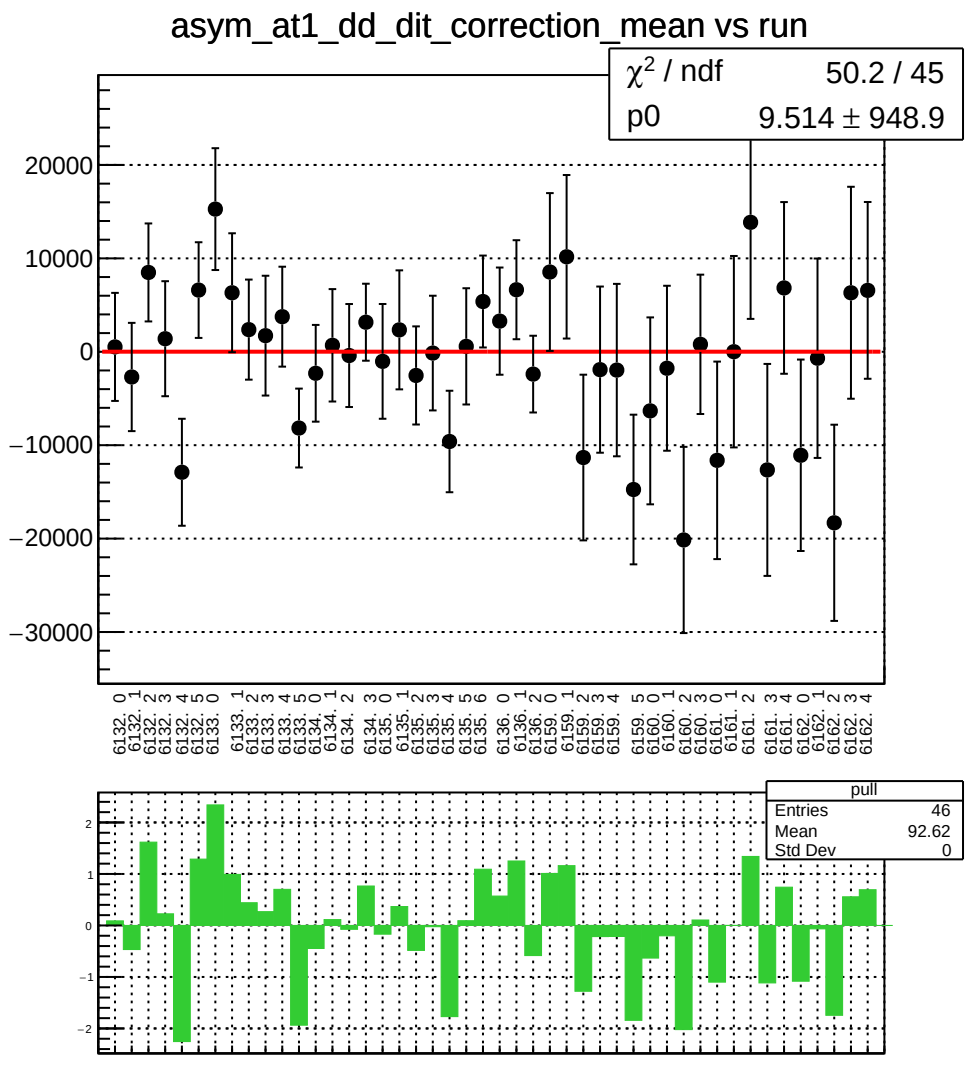

pull1D
Entries 46
Mean −0.04795
Std Dev 1.039
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

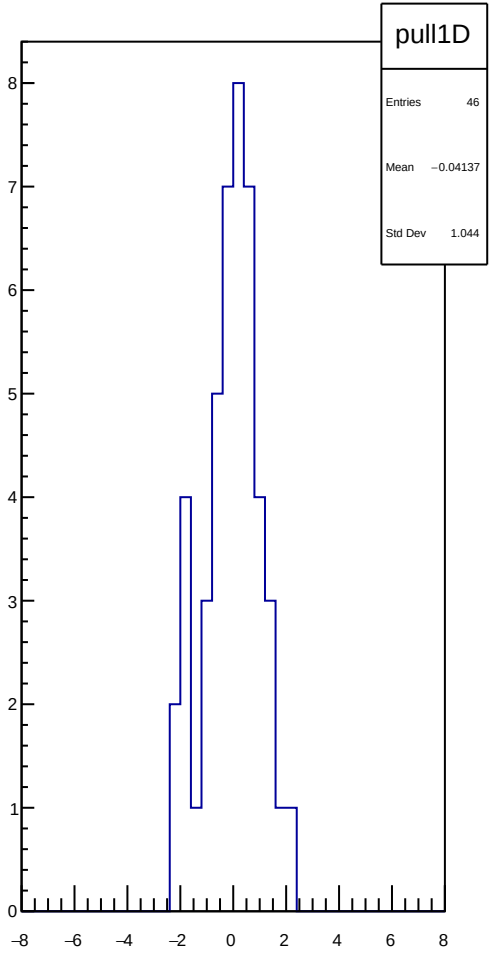

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.45e+04 / 45
p0 616.3 ± 0.667
1200
1100
1000
900
800
700
600
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

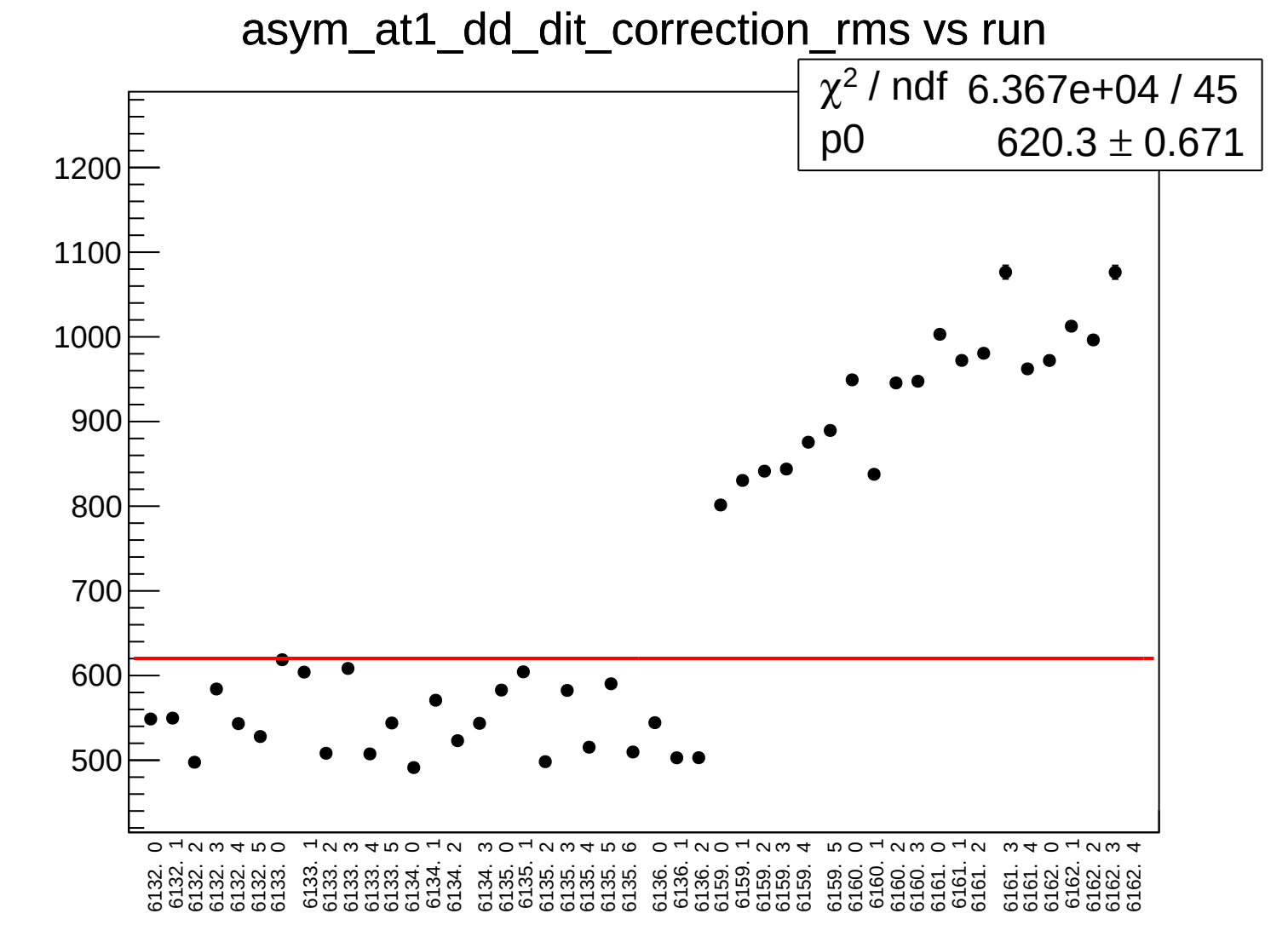

dit_asym_at1_dd_mean vs run
χ² / ndf 53.65 / 45
p0 −755 ± 2707
pull
Entries 46
Mean −3812
Std Dev 0

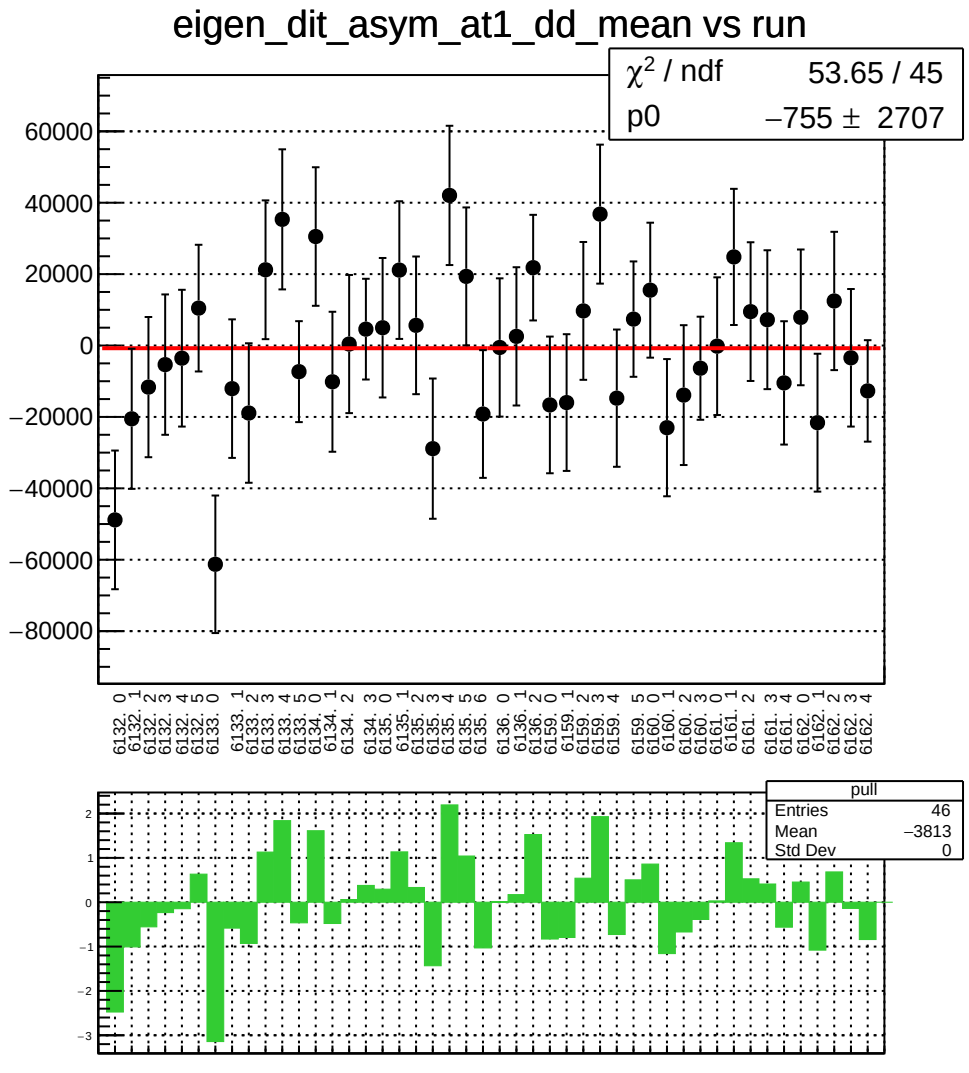

pull1D
Entries 46
Mean −0.0005624
Std Dev 1.08

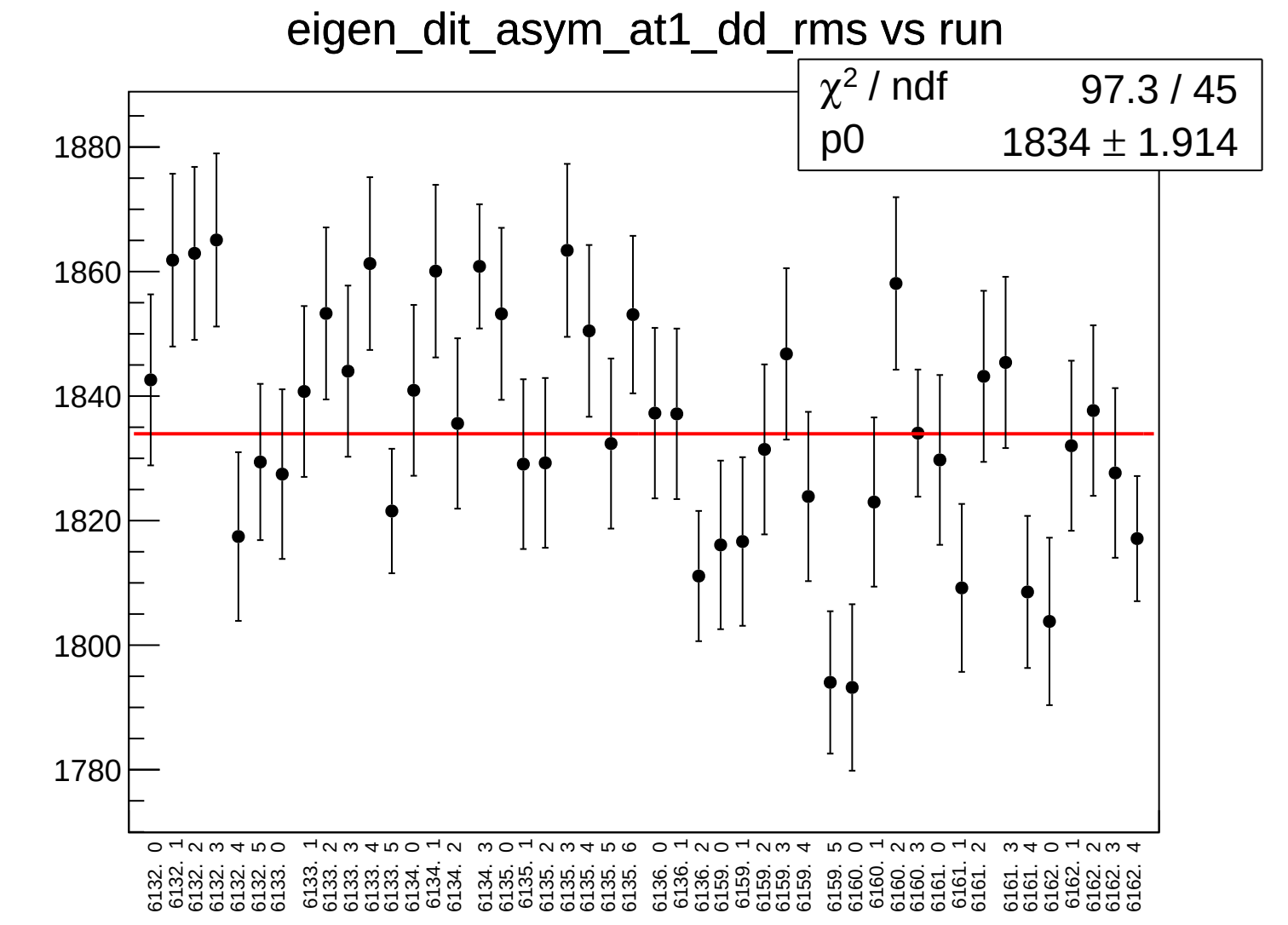

dit_asym_at1_dd_rms vs run
χ² / ndf 97.3 / 45
p0 1834 ± 1.914
1880
1860
1840
1820
1800
1780
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

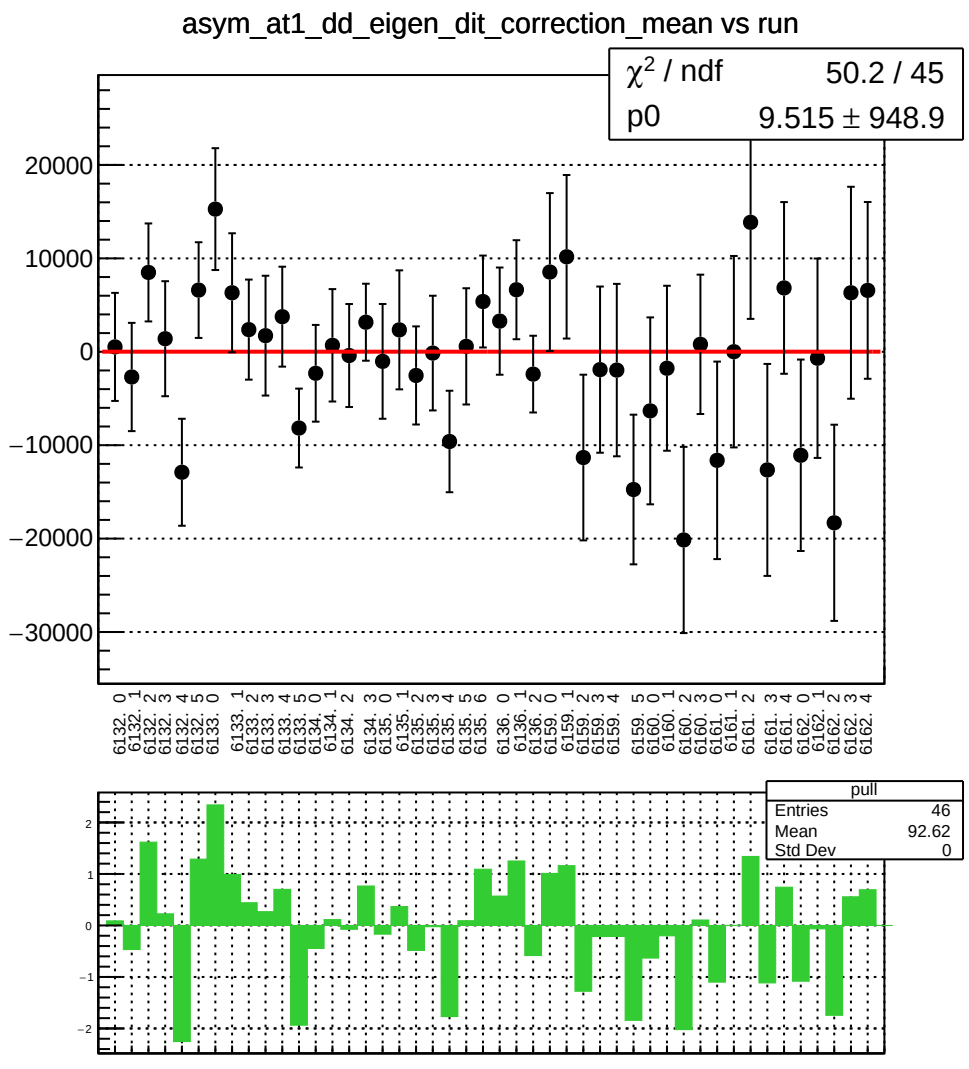

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 50.2 / 45
p0 9.514 ± 948.9
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 92.62
Std Dev 0
2
1
0
−1
−2

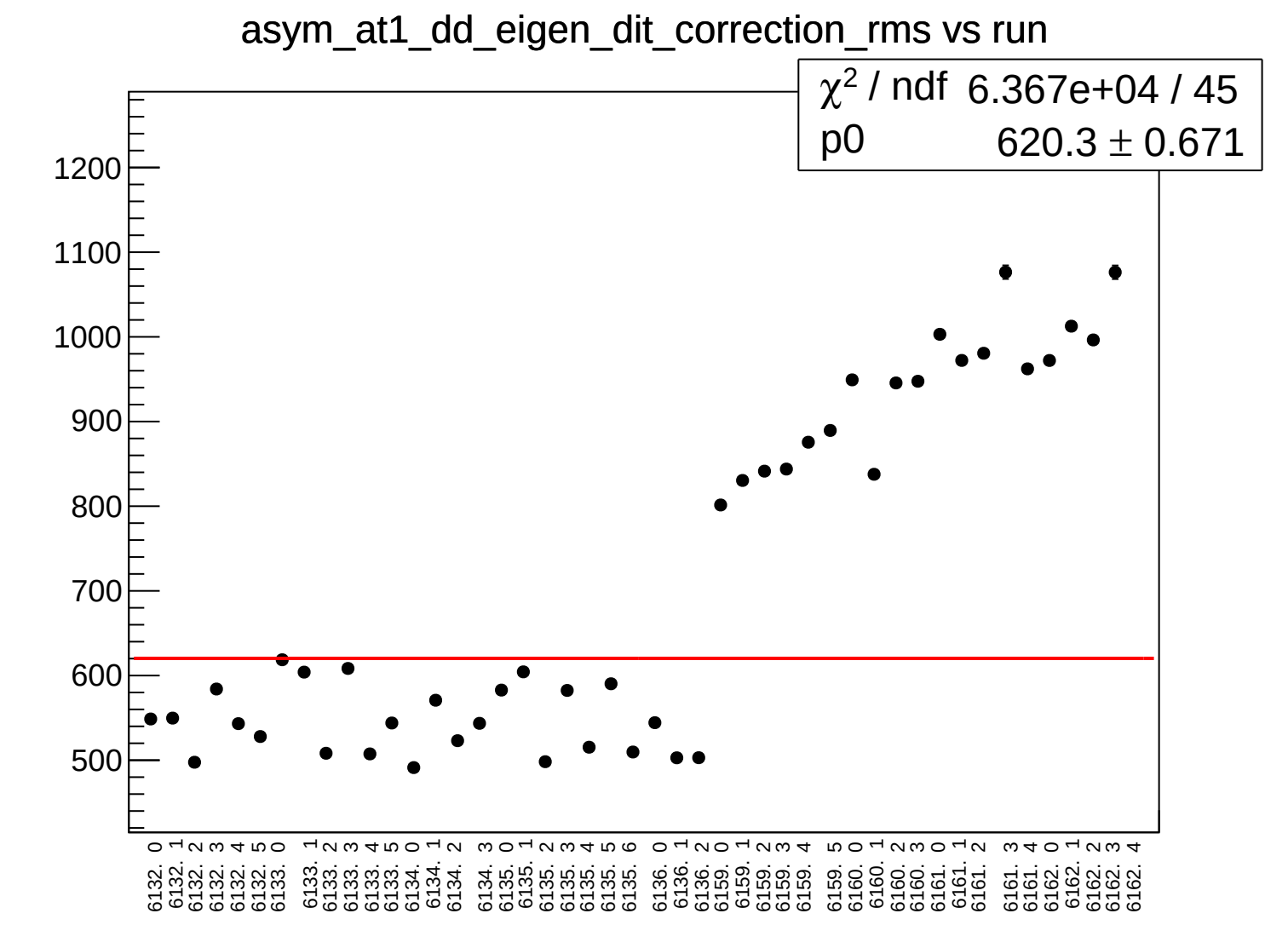

pull1D
Entries 46
Mean −0.04137
Std Dev 1.044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

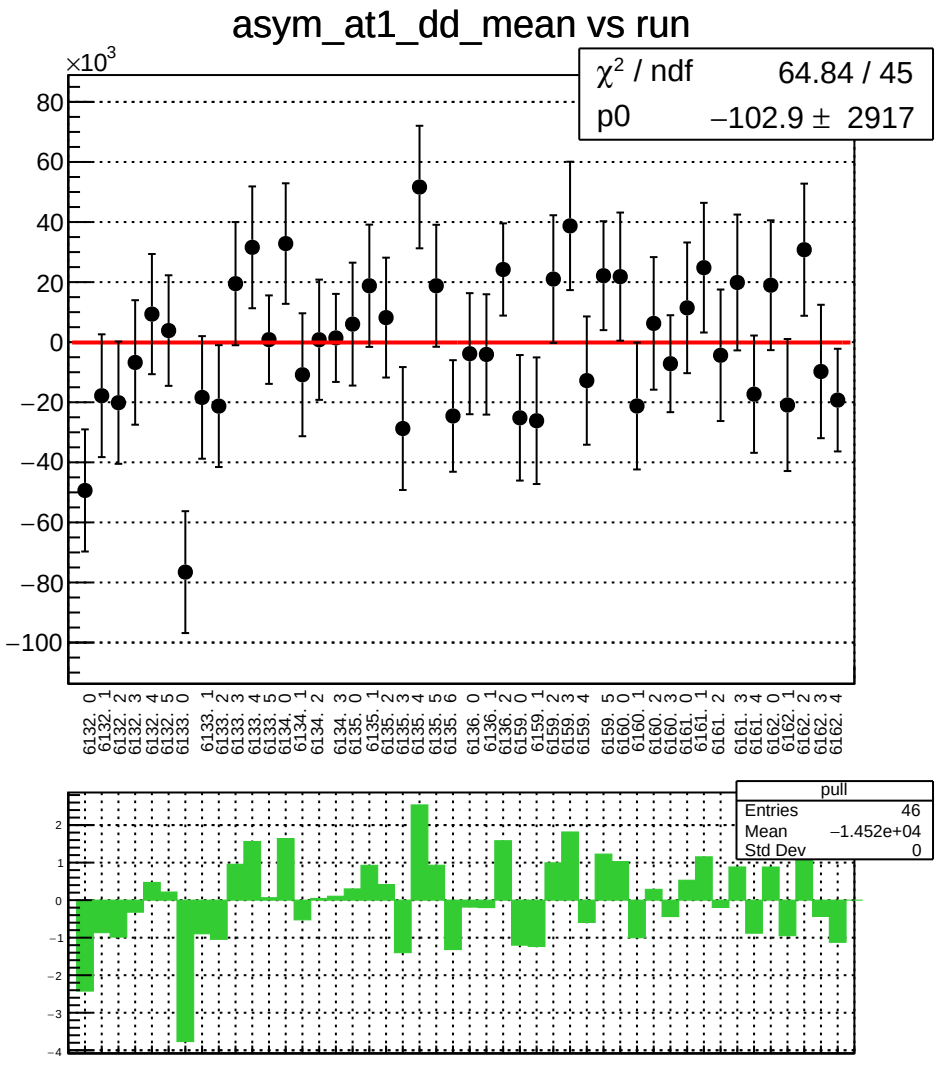

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 6.367e+04 / 45
p0 620.3 ± 0.671
1200
1100
1000
900
800
700
600
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 53.65 / 45
p0 −755 ± 2707
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −3813
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.0005624
Std Dev 1.08
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 97.3 / 45
p0 1834 ± 1.914
1880
1860
1840
1820
1800
1780
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 50.2 / 45
p0 9.515 ± 948.9
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 92.62
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.04137
Std Dev 1.044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 6.367e+04 / 45
p0 620.3 ± 0.671
1200
1100
1000
900
800
700
600
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_at1_dd_mean vs run
×10^3
χ² / ndf 64.84 / 45
p0 −102.9 ± 2917
80
60
40
20
0
−20
−40
−60
−80
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
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6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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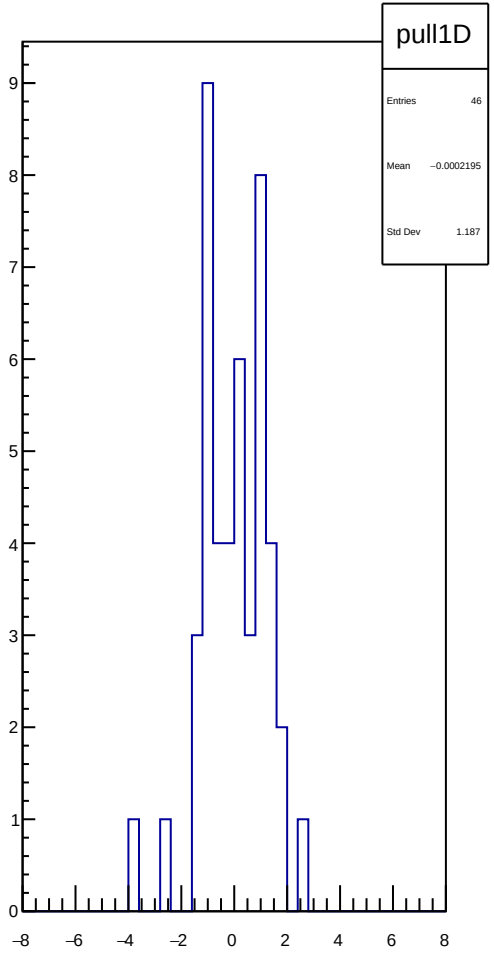
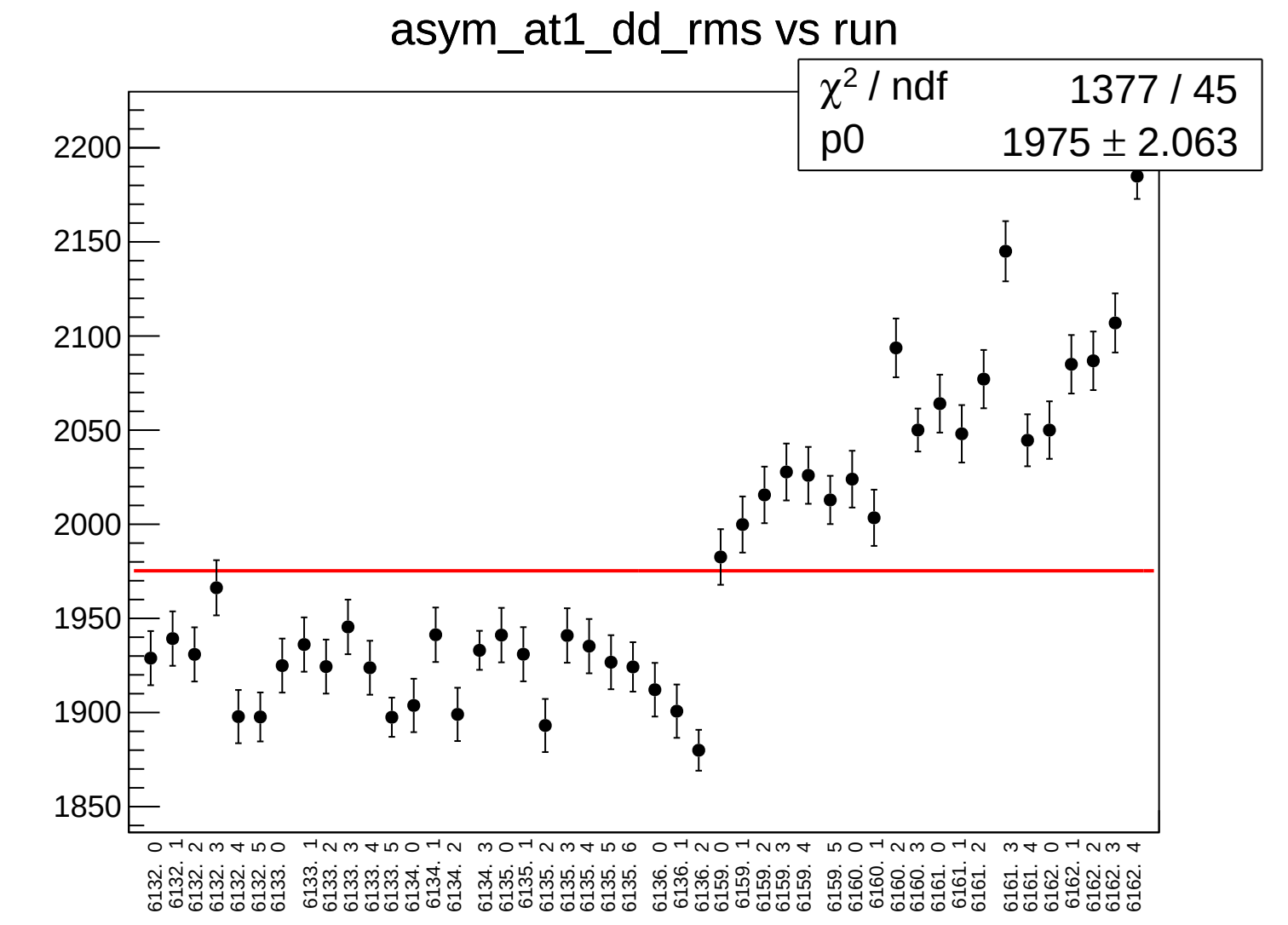
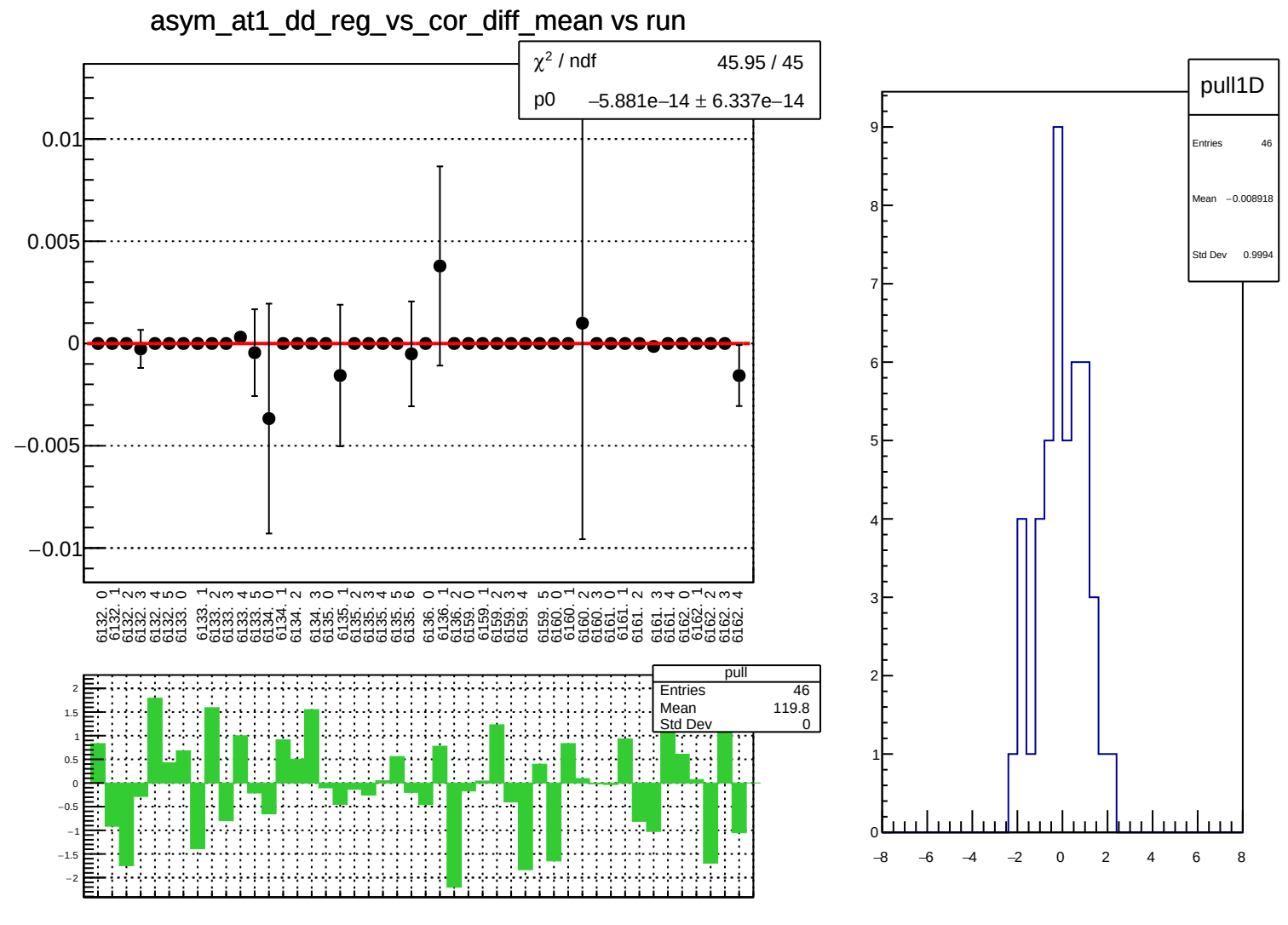
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1.452e+04
Std Dev 0
2
1
0
−1
−2
−3
−4


pull1D
Entries 46
Mean −0.0002195
Std Dev 1.187
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_rms vs run
χ² / ndf 1377 / 45
p0 1975 ± 2.063
2200
2150
2100
2050
2000
1950
1900
1850
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 45.95 / 45
p0 −5.881e−14 ± 6.337e−14
0.01
0.005
0
−0.005
−0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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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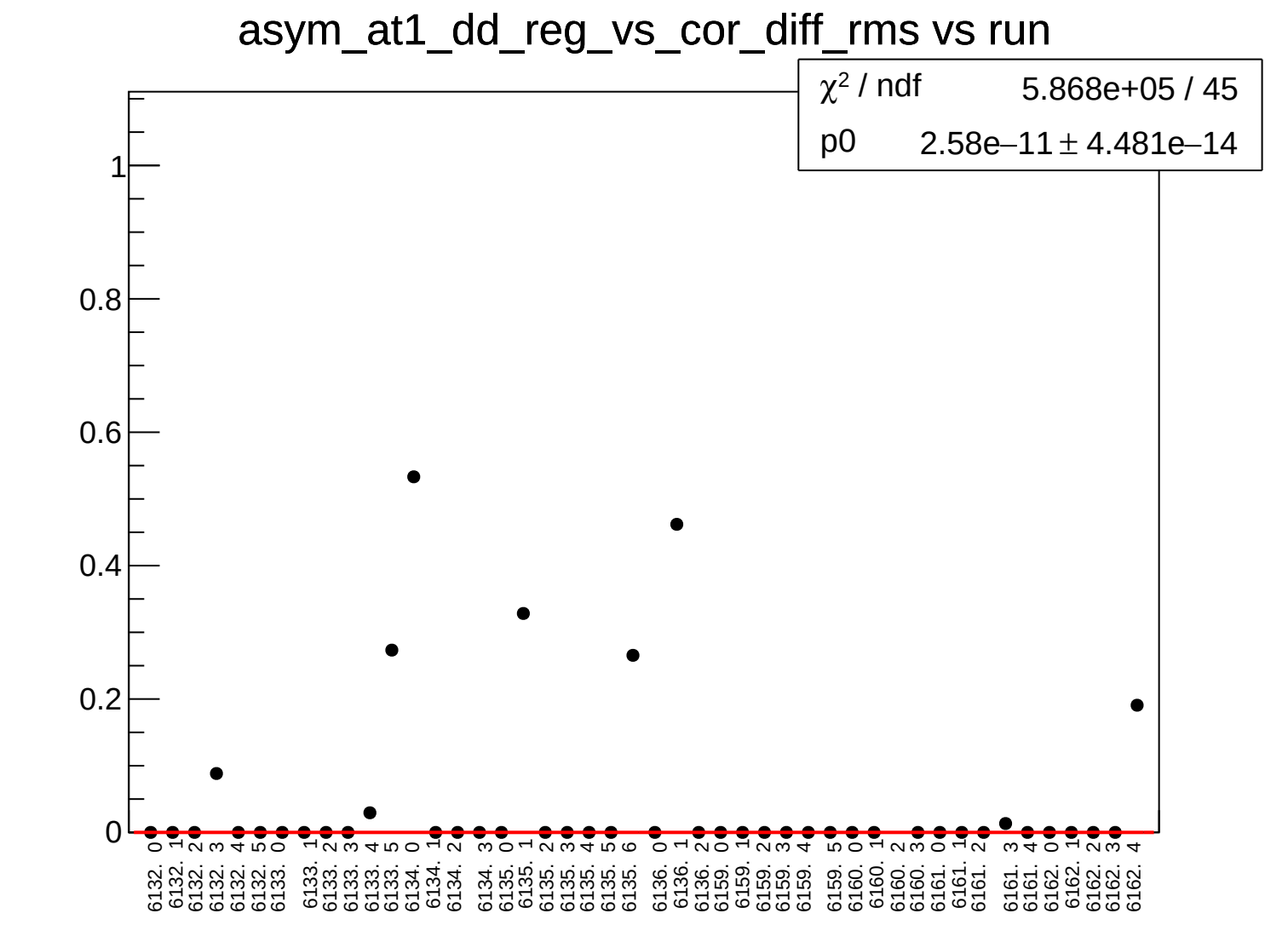
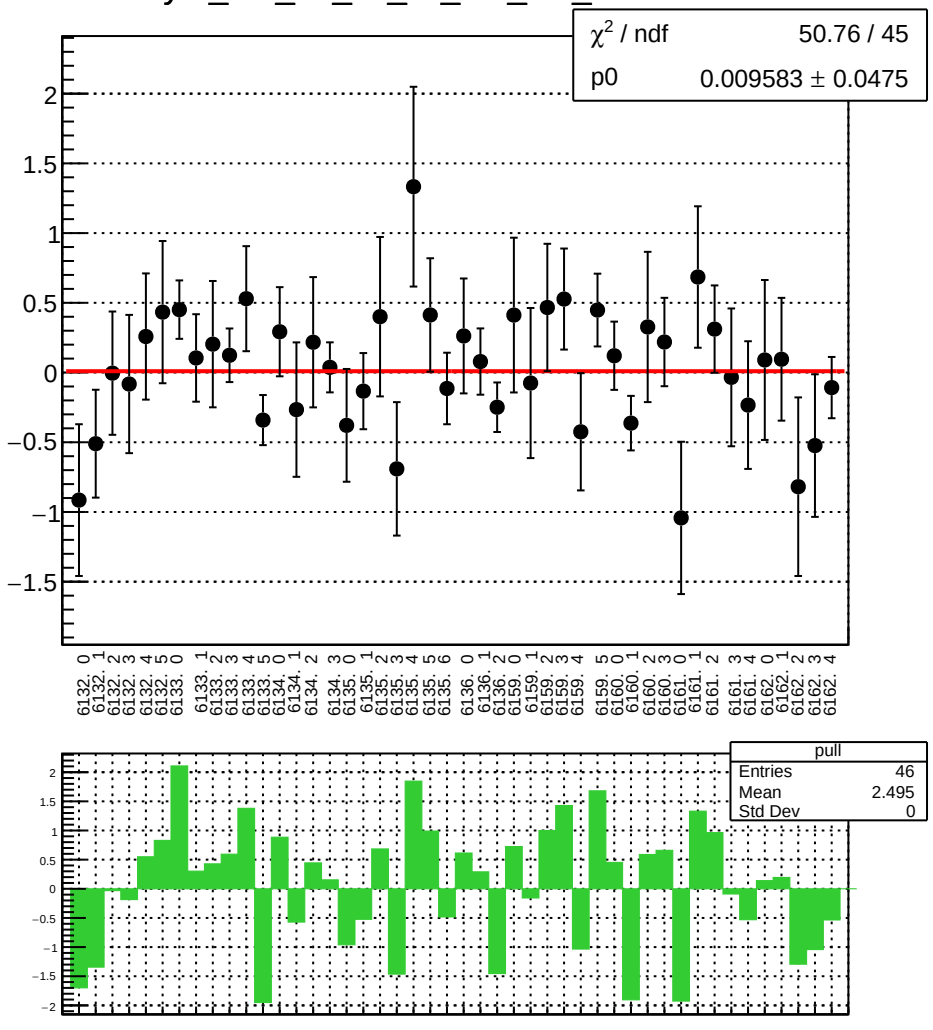
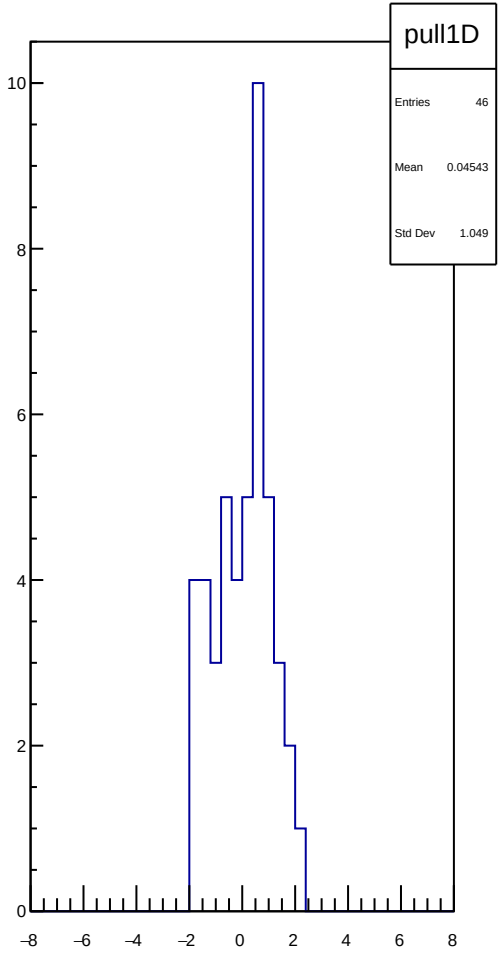
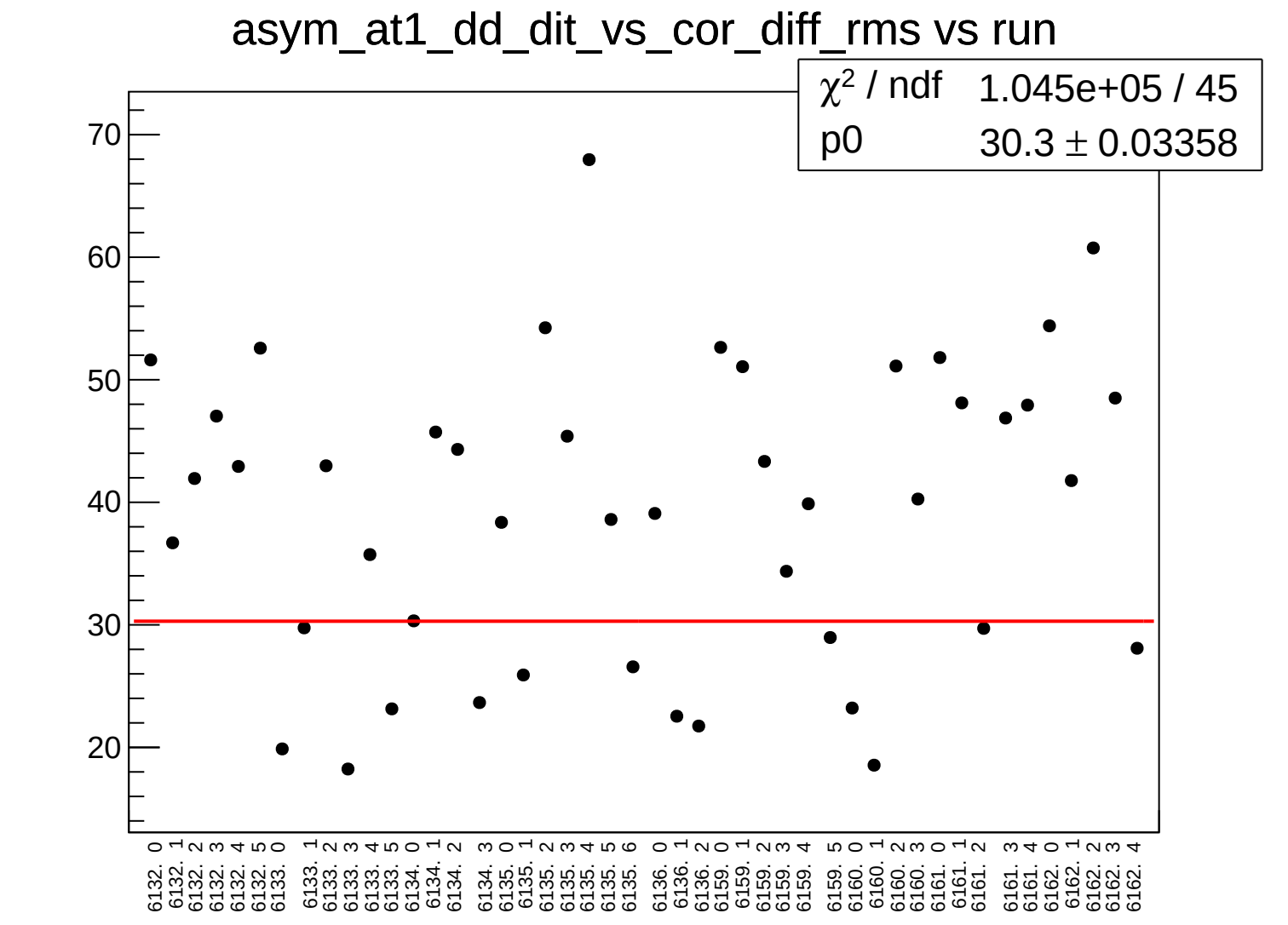
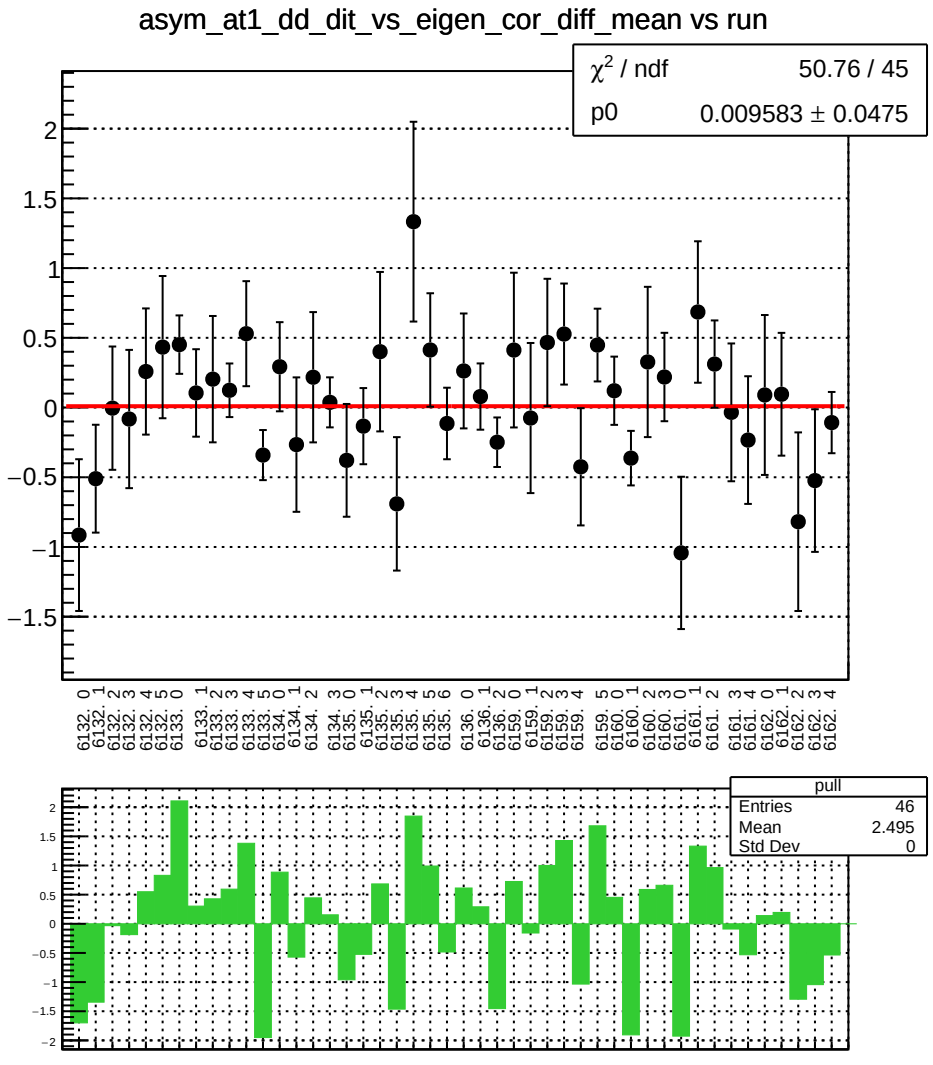
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 119.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.008918
Std Dev 0.9994
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

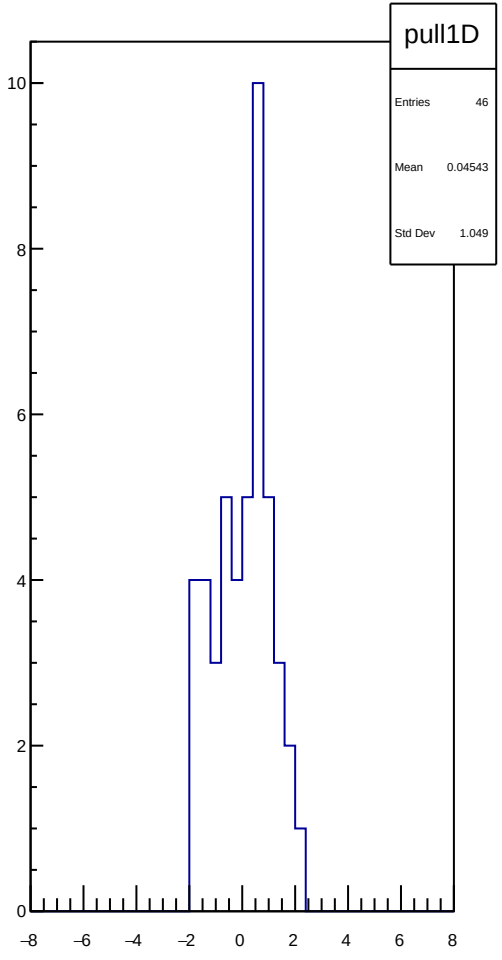

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.868e+05 / 45
p0 2.58e−11 ± 4.481e−14
1
0.8
0.6
0.4
0.2
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

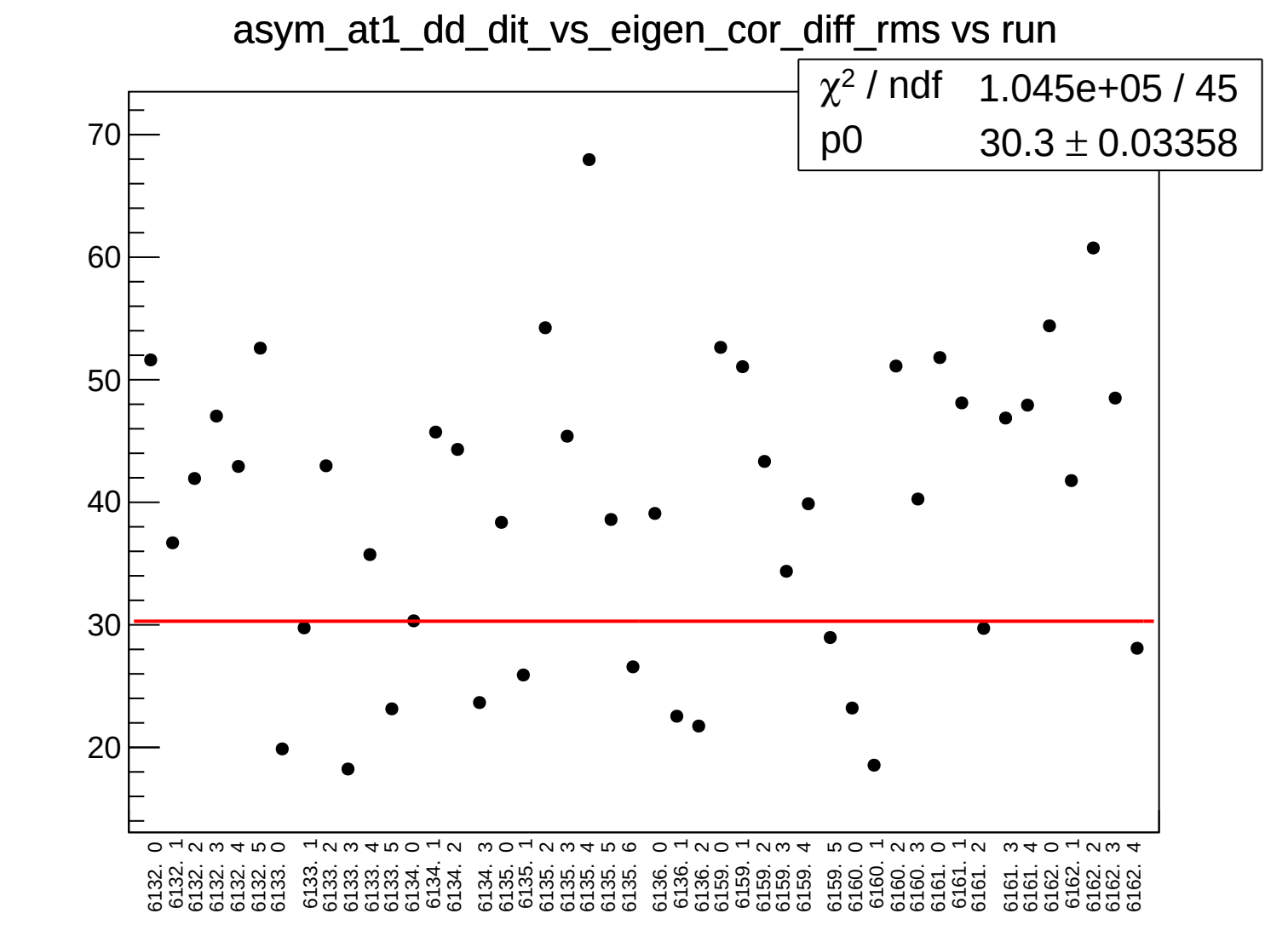

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 50.76 / 45
p0 0.009583 ± 0.0475
pull
Entries 46
Mean 2.495
Std Dev 0

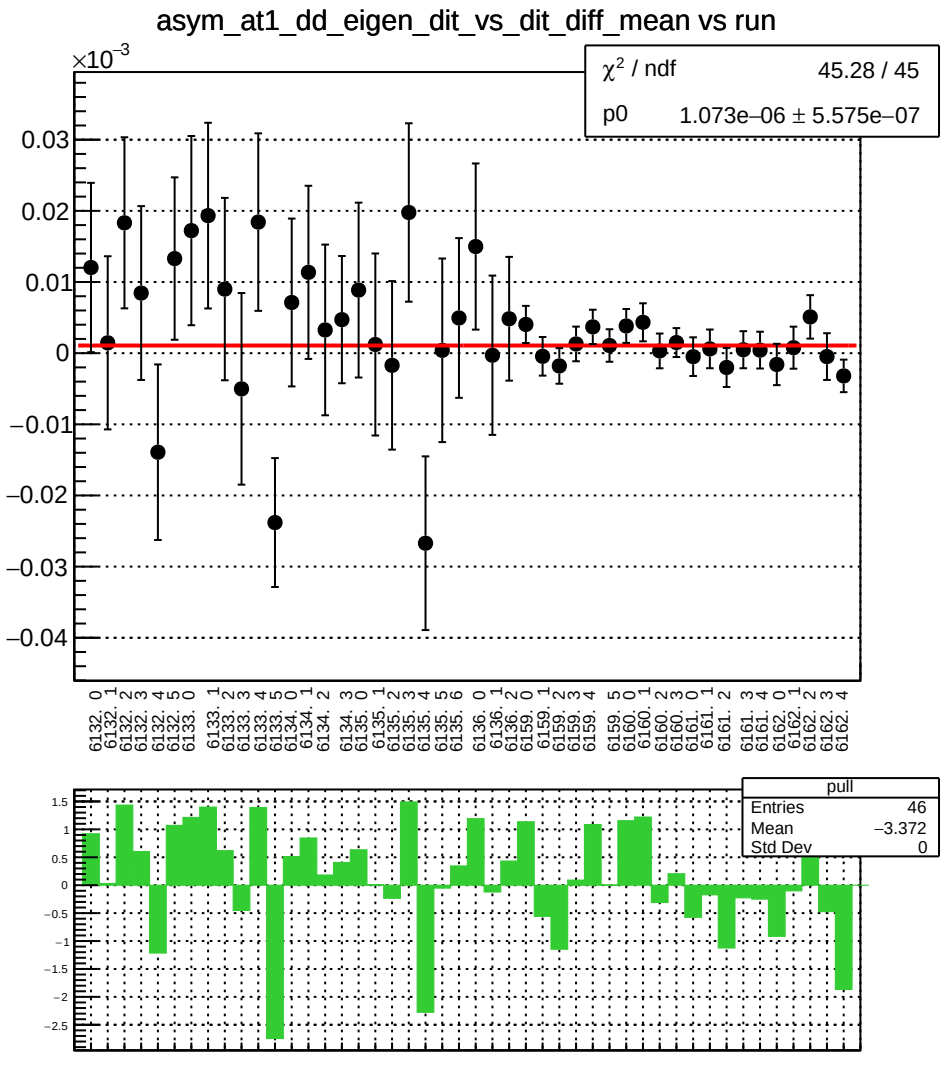

pull1D
Entries 46
Mean 0.04543
Std Dev 1.049

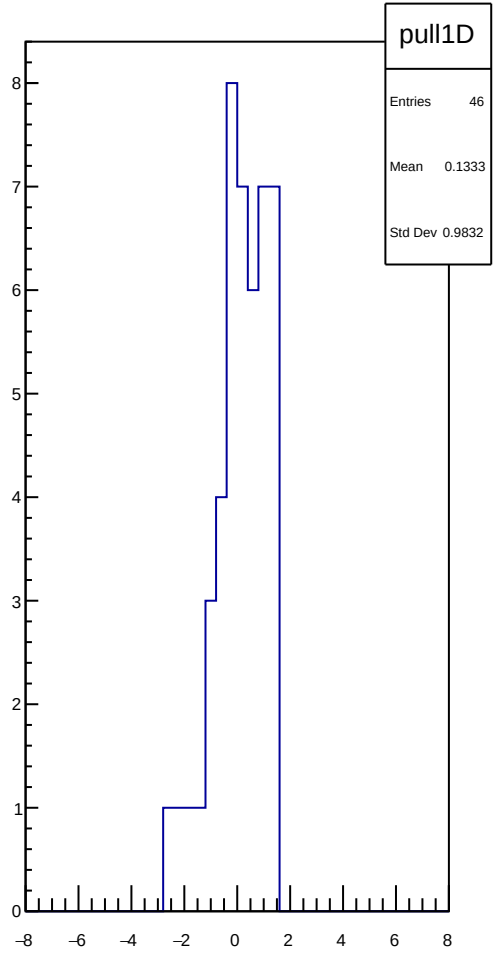

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.045e+05 / 45
p0 30.3 ± 0.03358
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

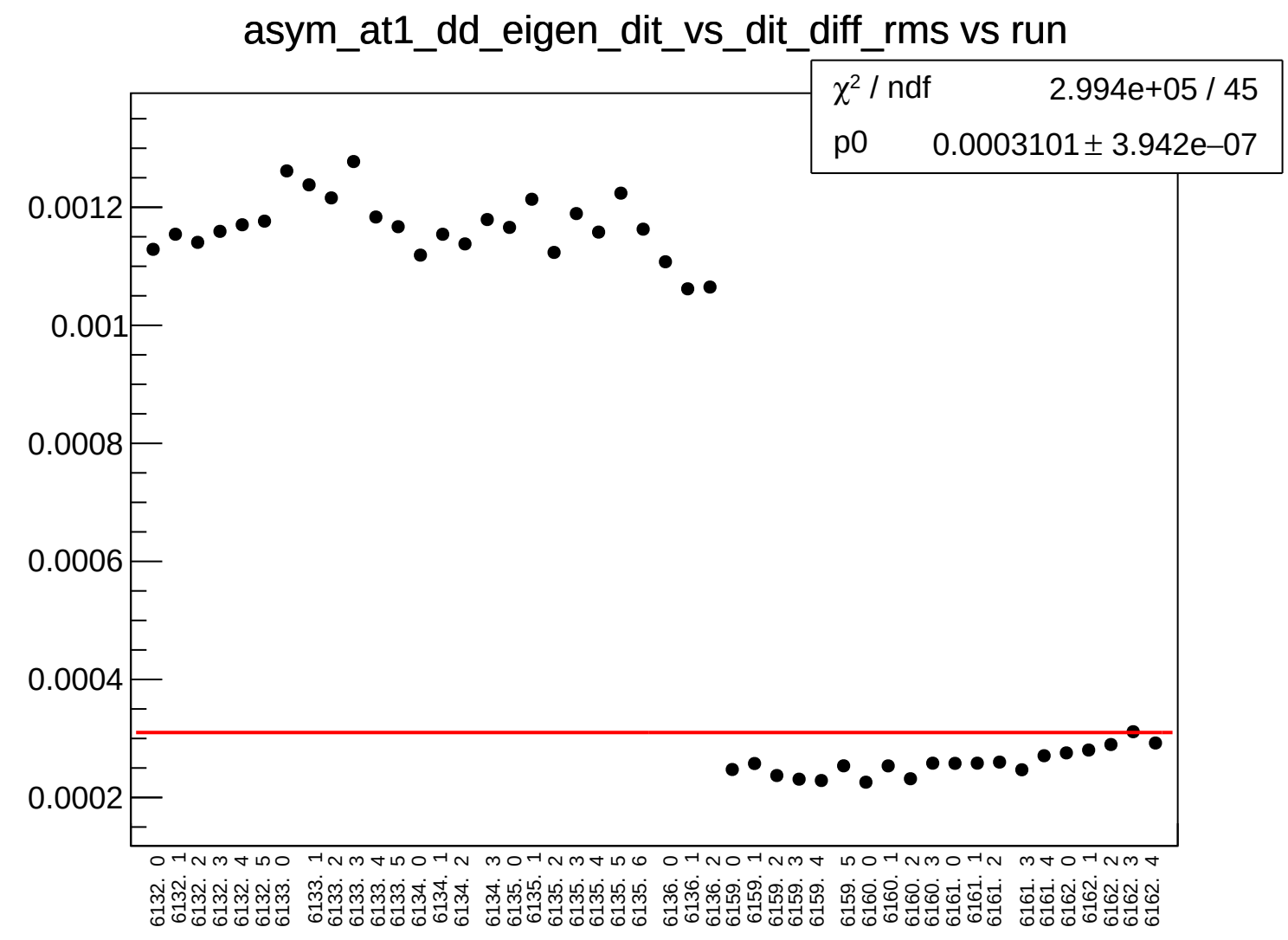

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.76 / 45
p0 0.009583 ± 0.0475
pull
Entries 46
Mean 2.495
Std Dev 0

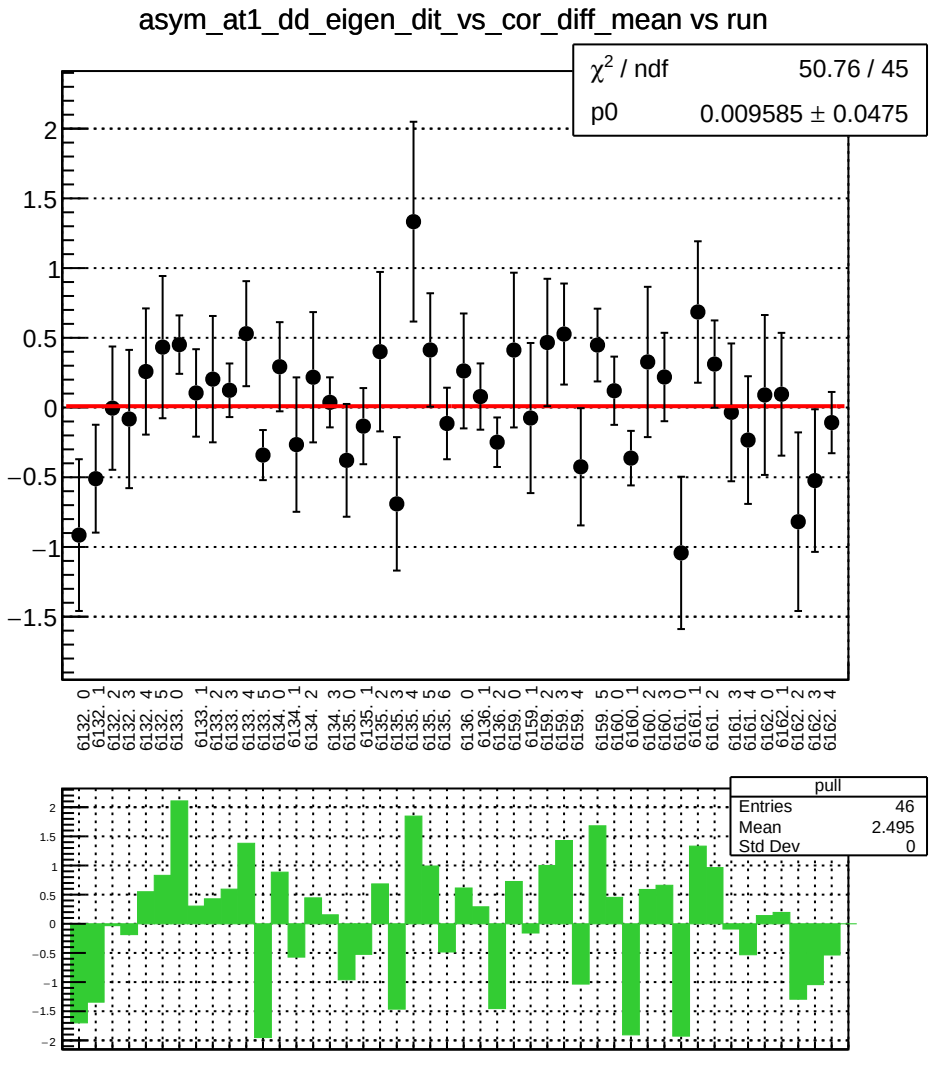

pull1D
Entries 46
Mean 0.04543
Std Dev 1.049

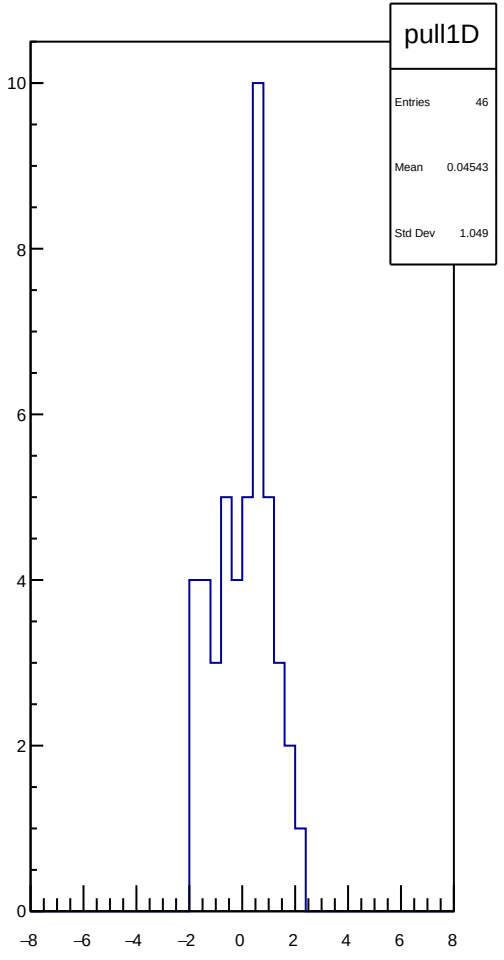

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.045e+05 / 45
p0 30.3 ± 0.03358
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

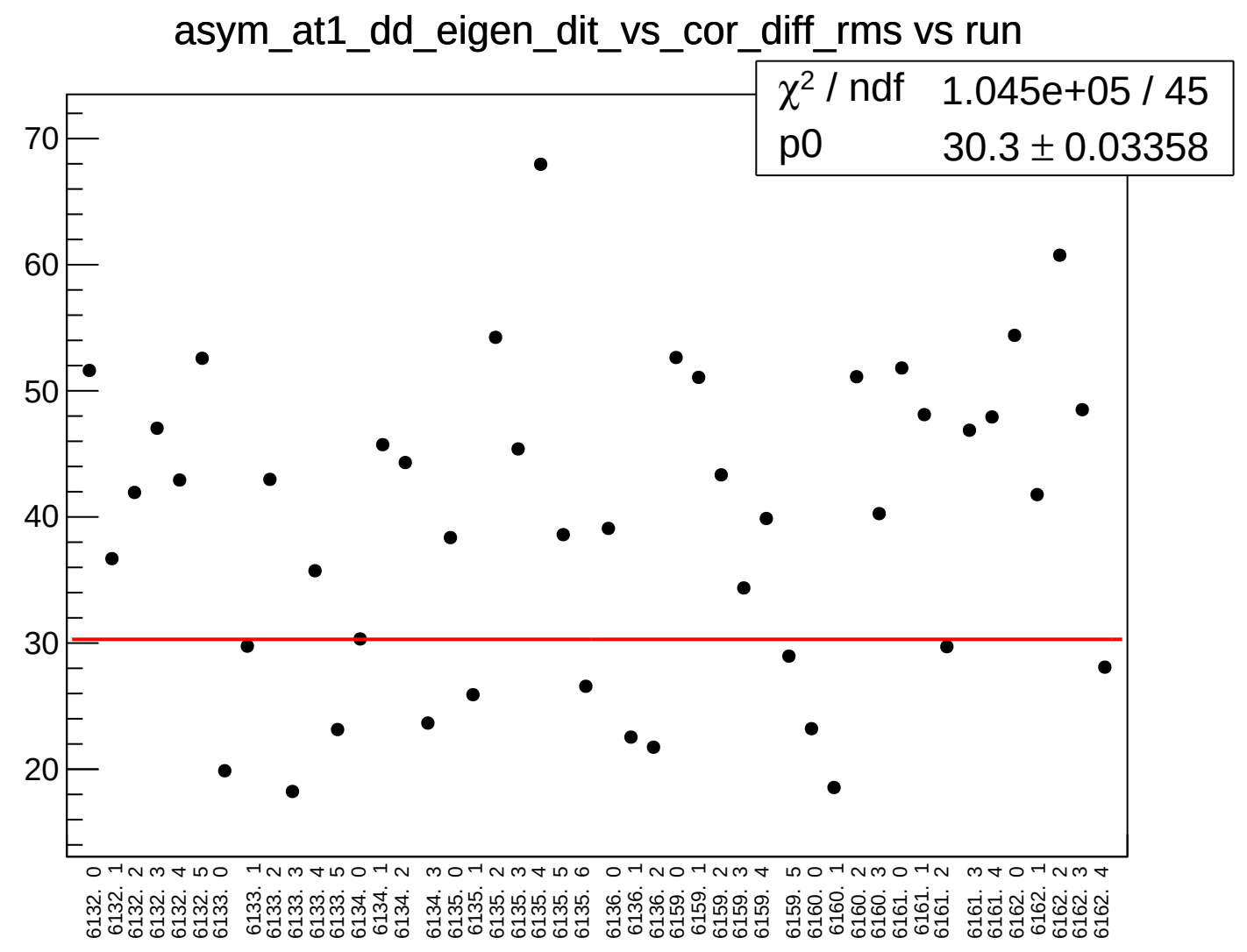

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 45.28 / 45
p0 1.073e−06 ± 5.575e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −3.372
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

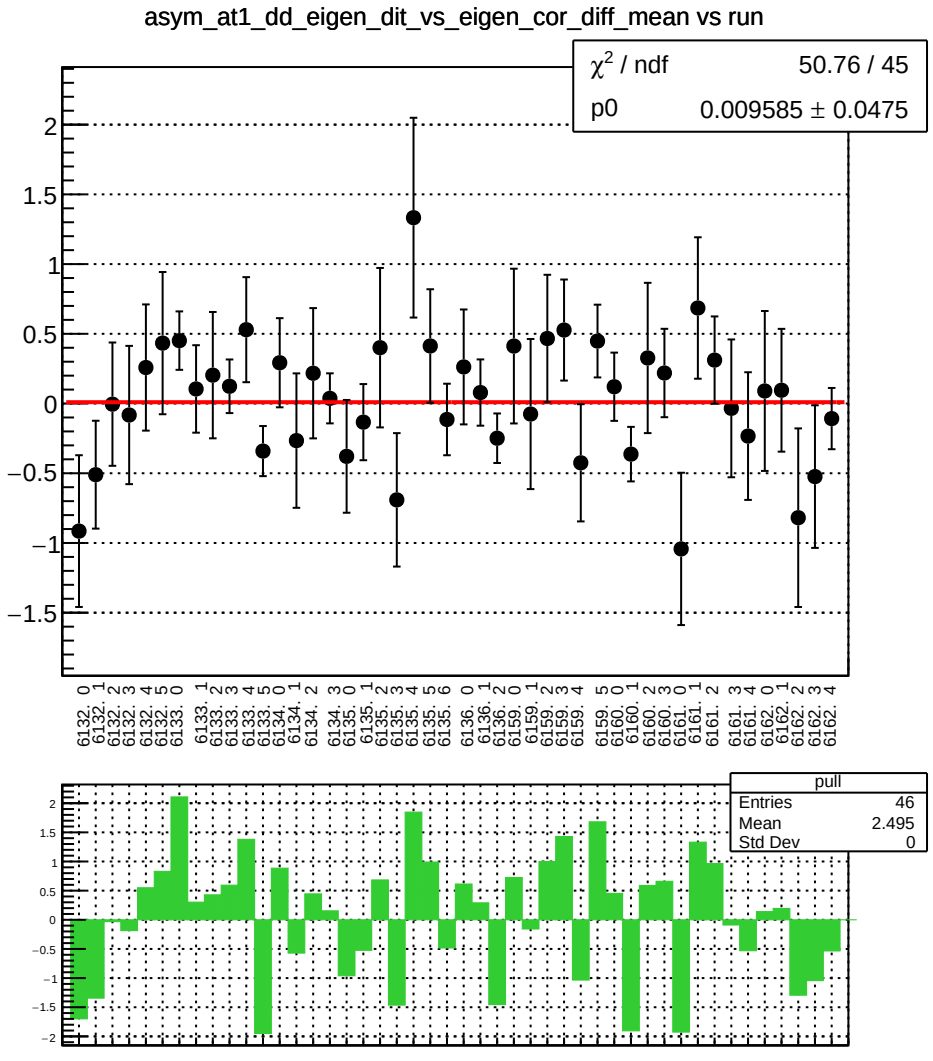

pull1D
Entries 46
Mean 0.1333
Std Dev 0.9832
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

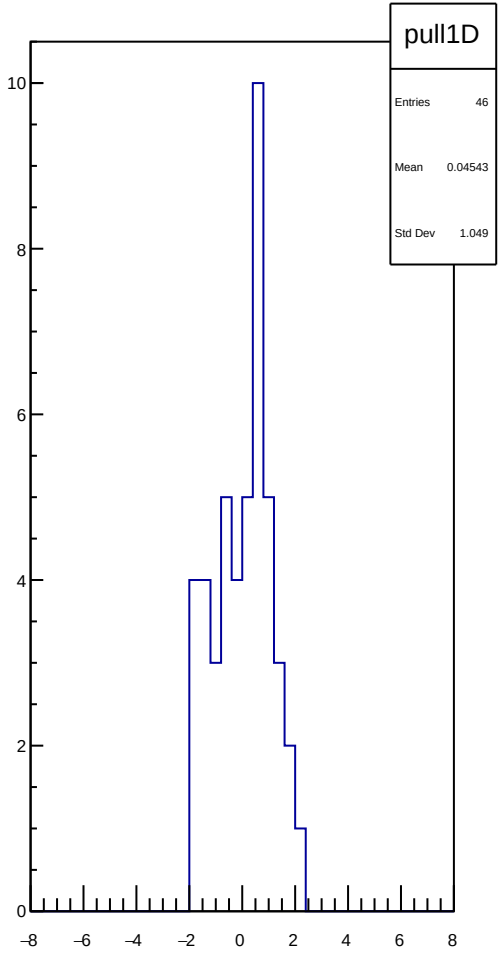

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.994e+05 / 45
p0 0.0003101 ± 3.942e–07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

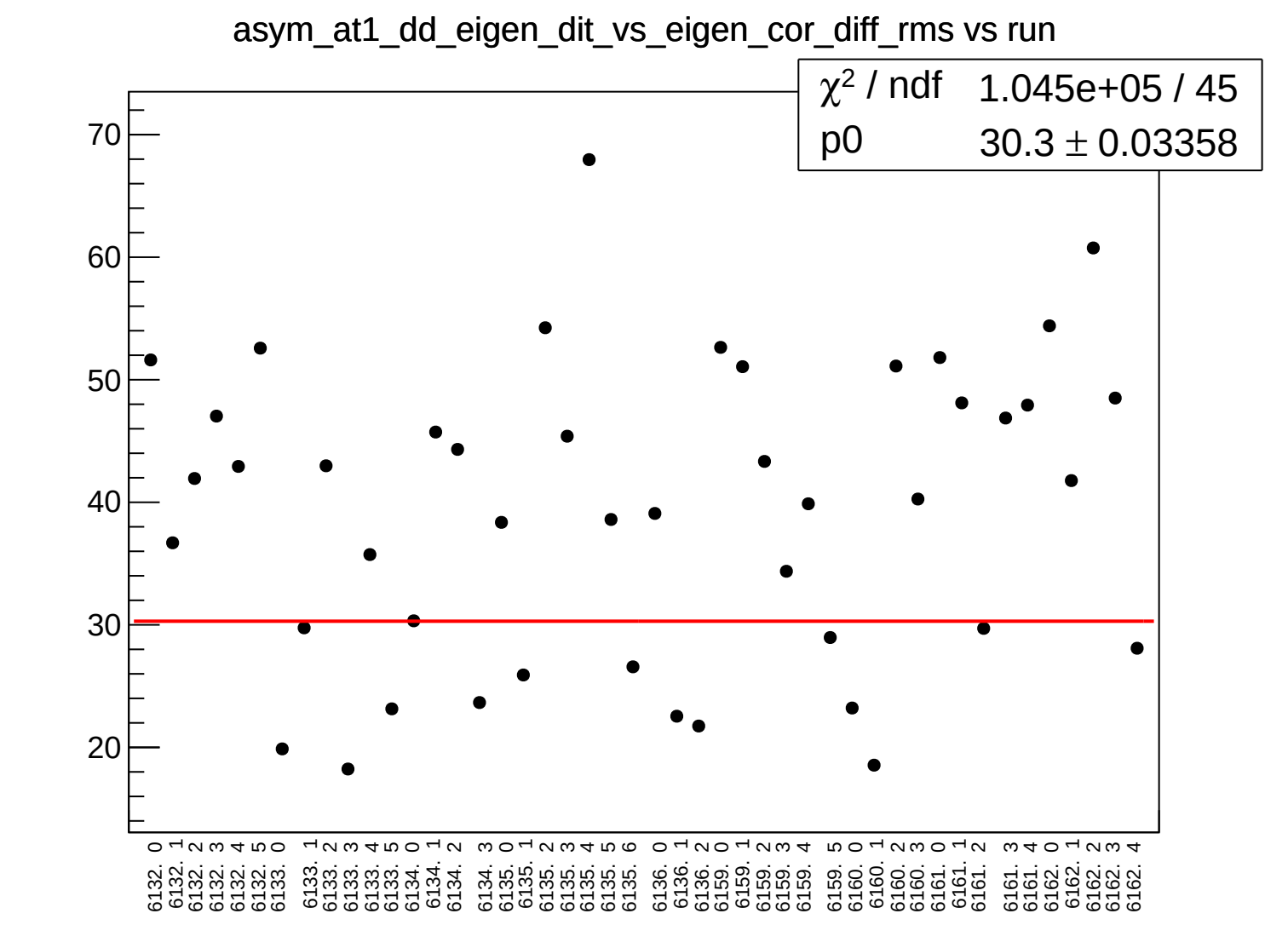

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 50.76 / 45
p0 0.009585 ± 0.0475
pull
Entries 46
Mean 2.495
Std Dev 0

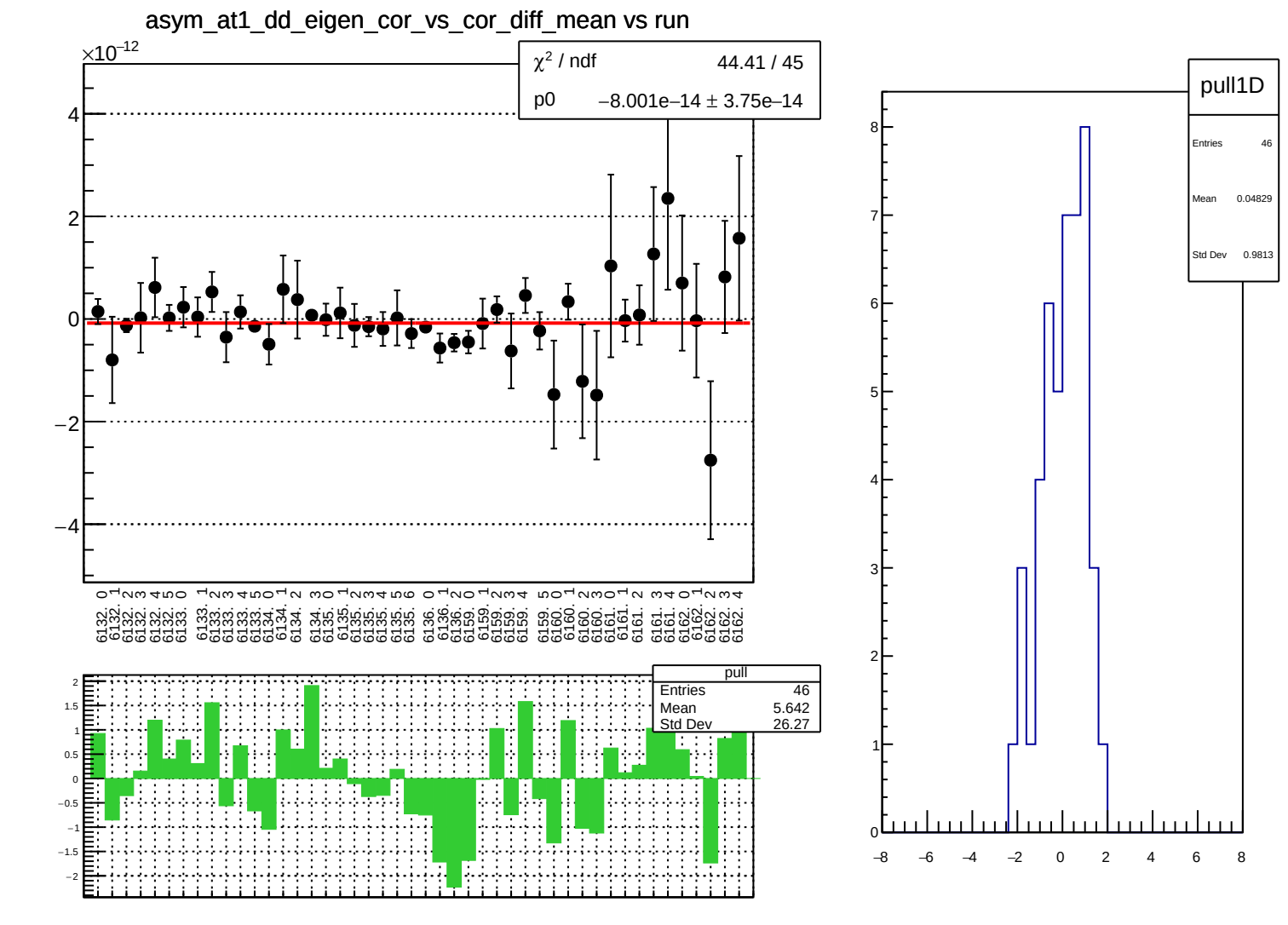

pull1D
Entries 46
Mean 0.04543
Std Dev 1.049

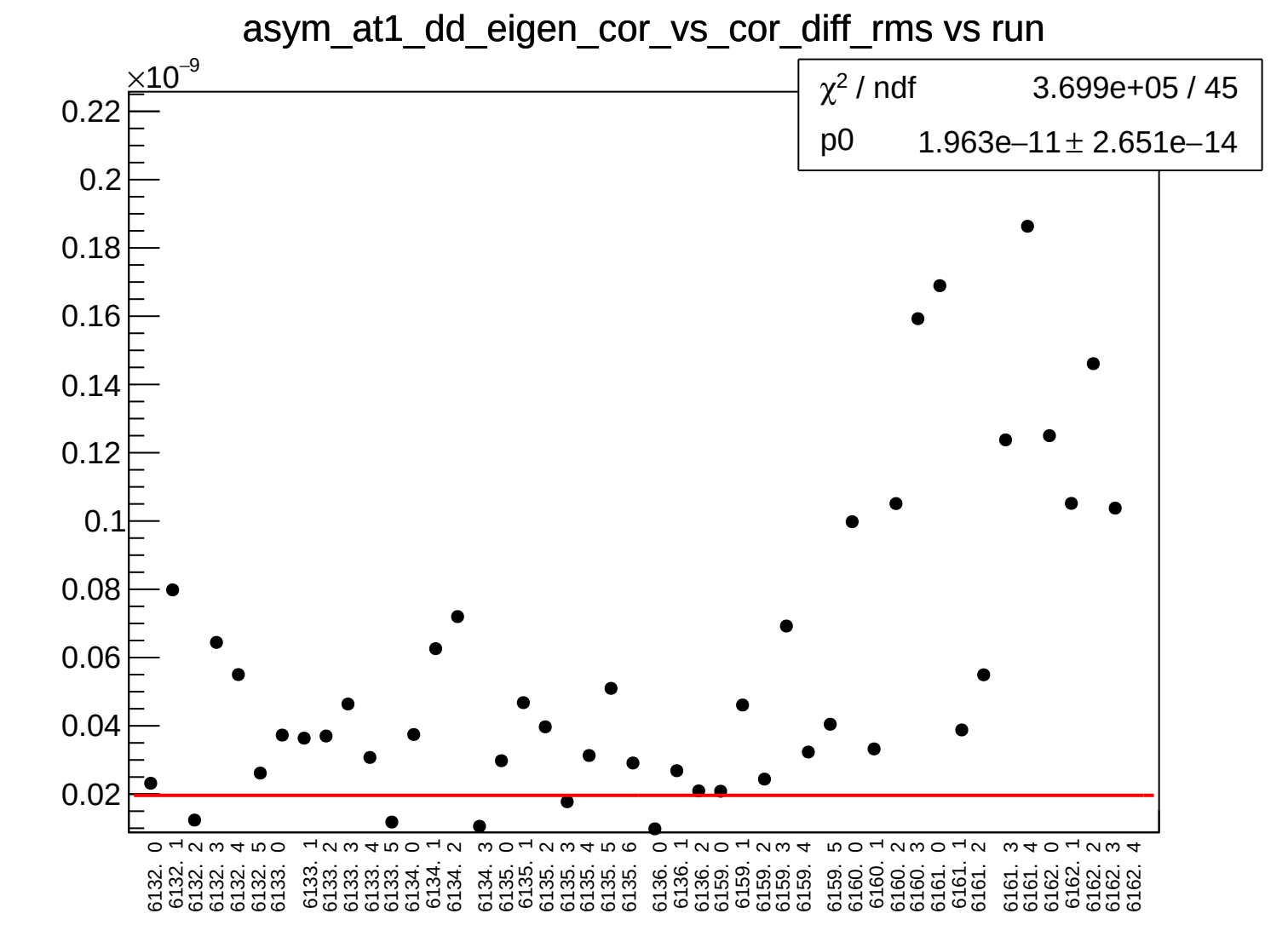

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.045e+05 / 45
p0 30.3 ± 0.03358
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

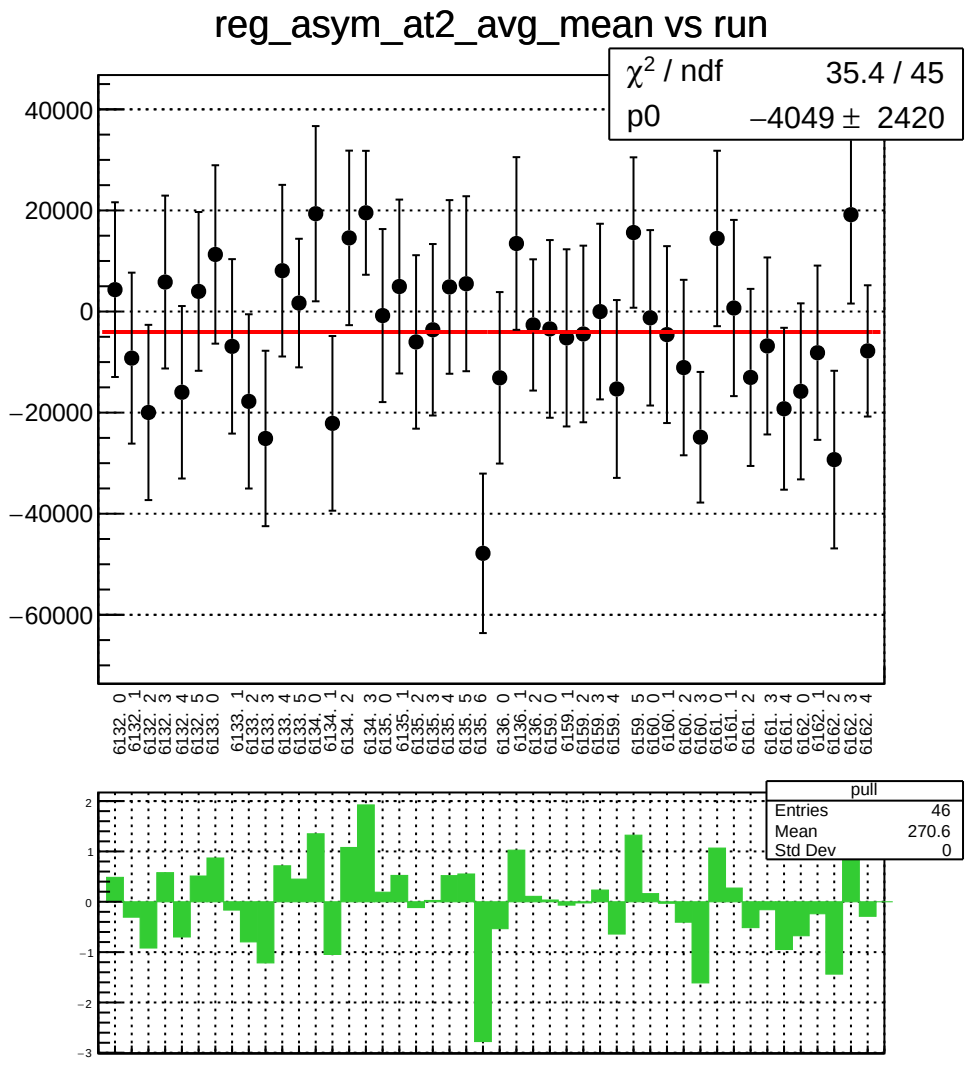

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.76 / 45
p0 0.009585 ± 0.0475
pull
Entries 46
Mean 2.495
Std Dev 0

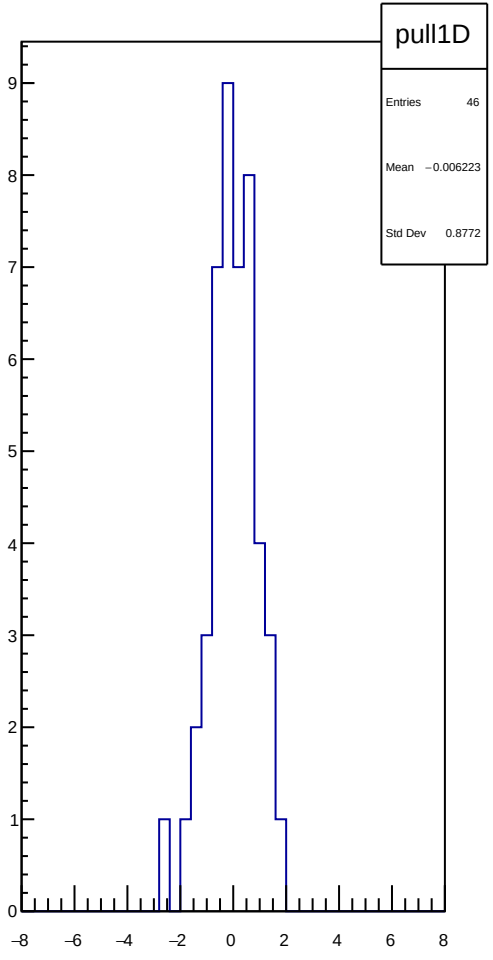

pull1D
Entries 46
Mean 0.04543
Std Dev 1.049

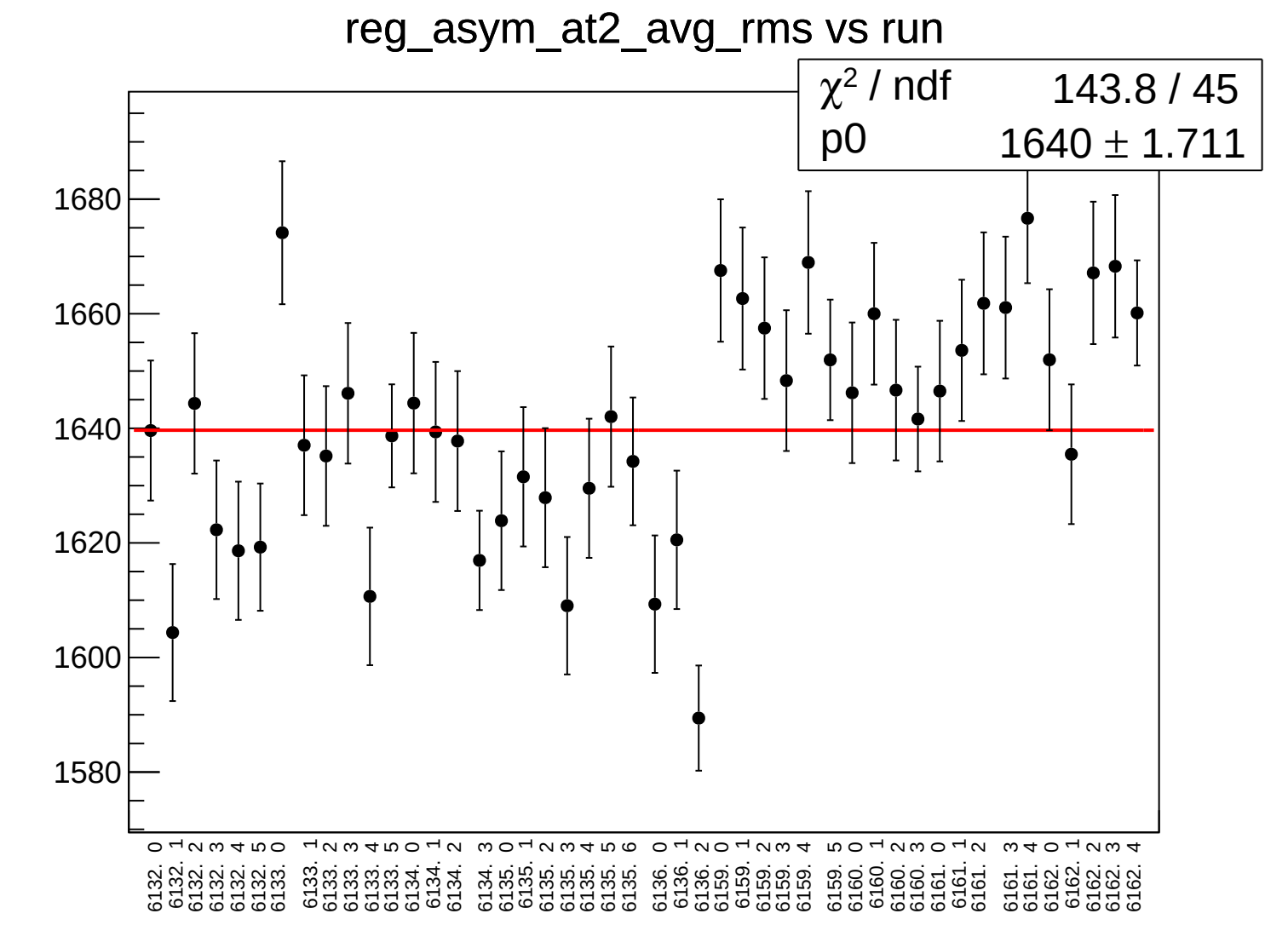

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.045e+05 / 45
p0 30.3 ± 0.03358
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

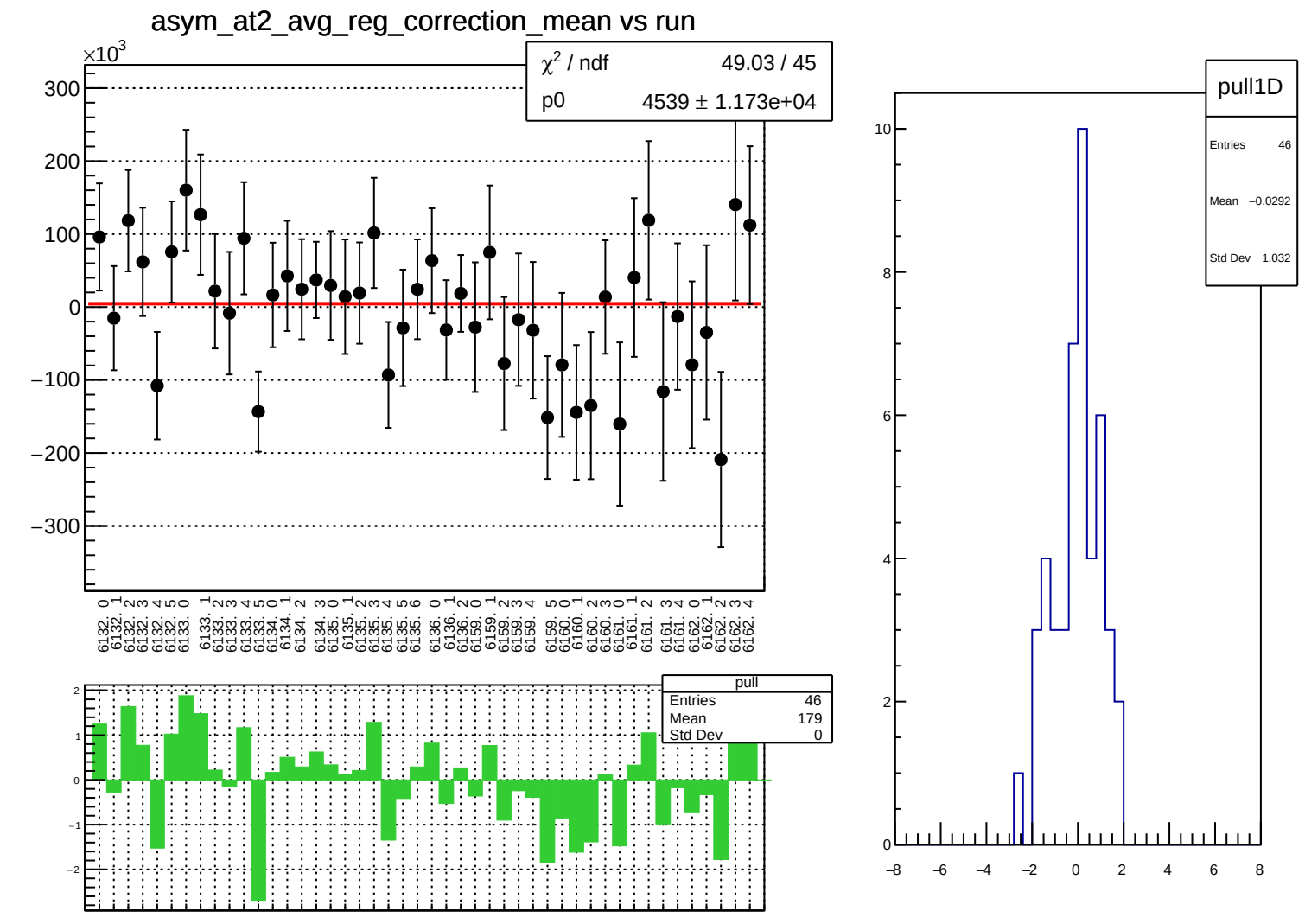

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.41 / 45
p0 −8.001e−14 ± 3.75e−14
4
2
0
−2
−4
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 5.642
Std Dev 26.27
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.04829
Std Dev 0.9813
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

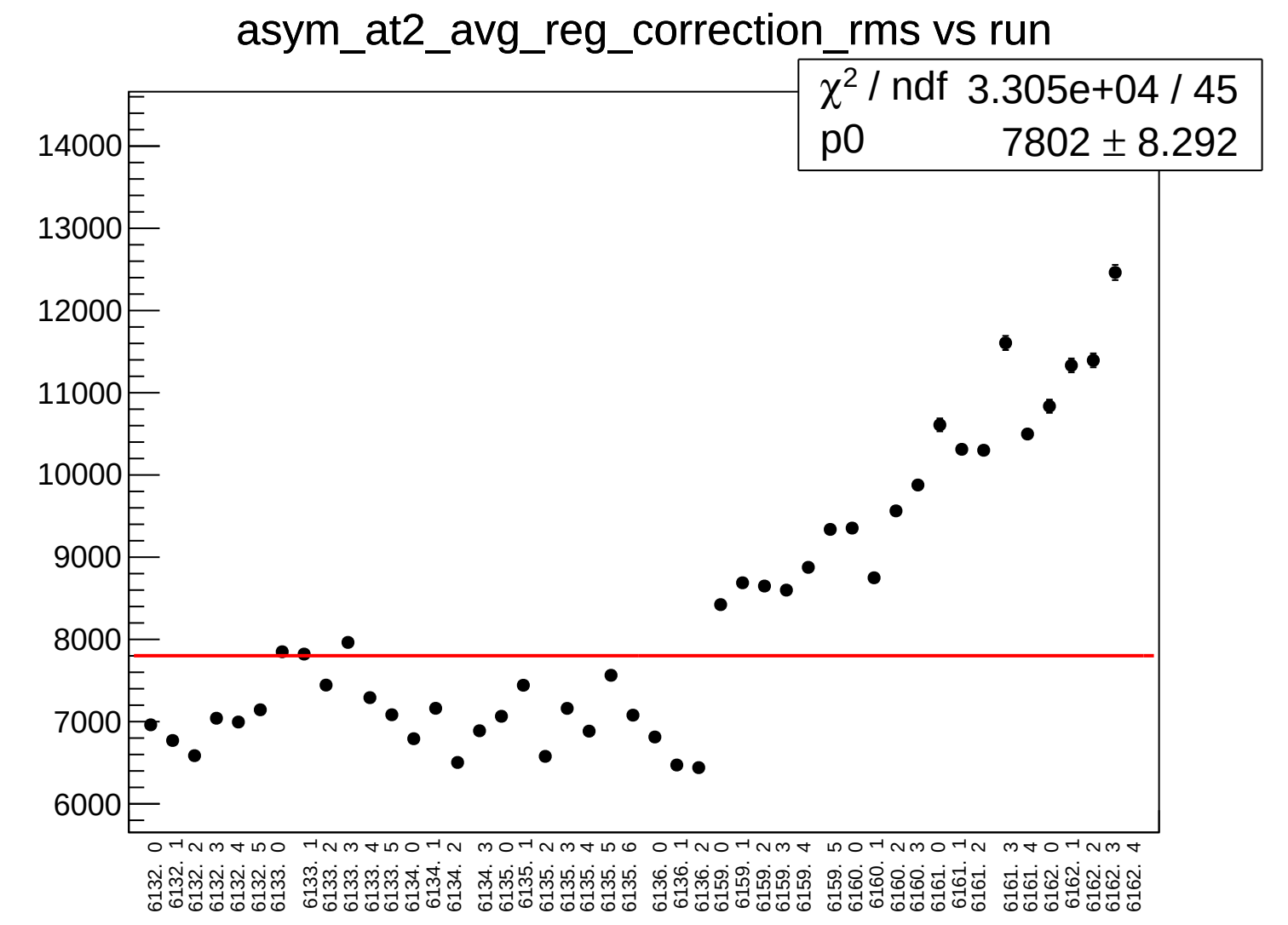

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.699e+05 / 45
p0 1.963e−11 ± 2.651e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_at2_avg_mean vs run
χ² / ndf 35.4 / 45
p0 −4049 ± 2420
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 270.6
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean −0.006223
Std Dev 0.8772
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at2_avg_rms vs run
χ² / ndf 143.8 / 45
p0 1640 ± 1.711
1680
1660
1640
1620
1600
1580
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 49.03 / 45
p0 4539 ± 1.173e+04
300
200
100
0
−100
−200
−300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 179
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.0292
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_avg_reg_correction_rms vs run
χ² / ndf 3.305e+04 / 45
p0 7802 ± 8.292
14000
13000
12000
11000
10000
9000
8000
7000
6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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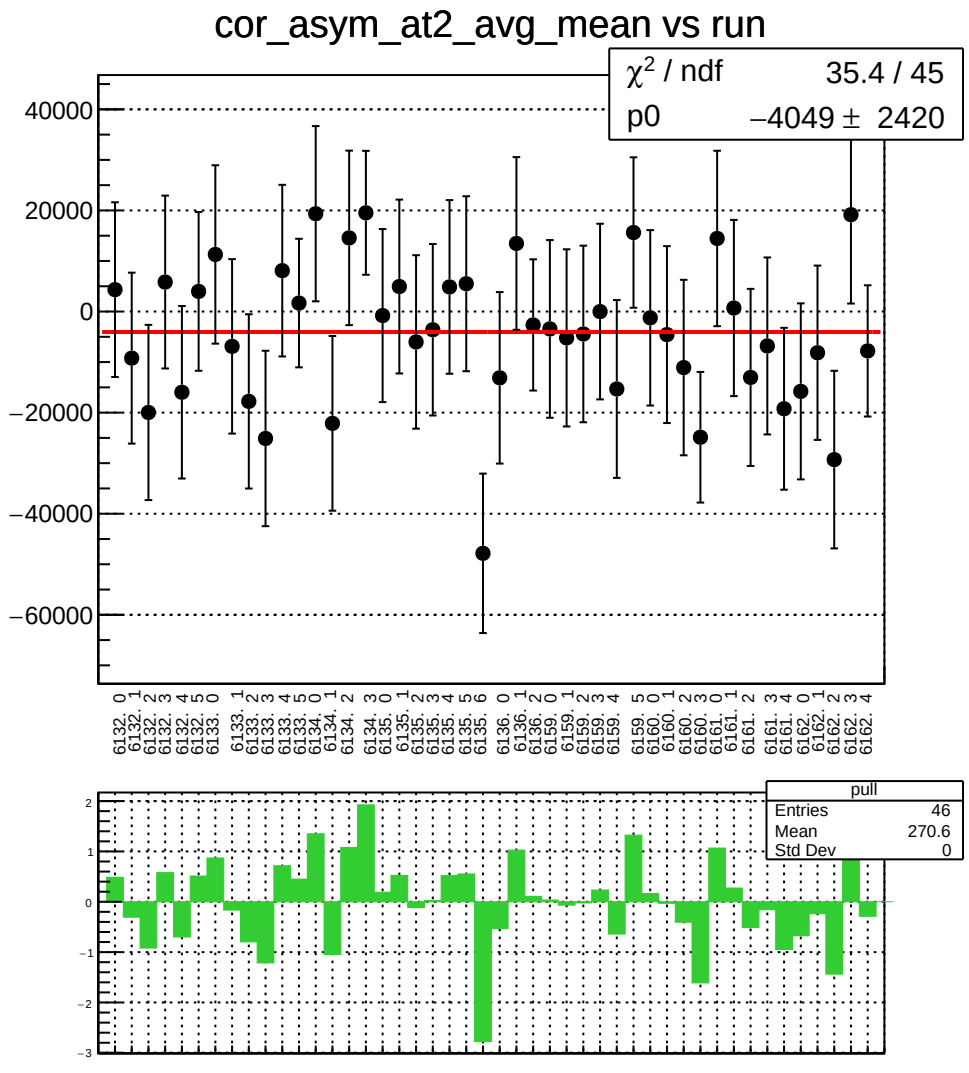
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_at2_avg_mean vs run
χ² / ndf 35.4 / 45
p0 −4049 ± 2420
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
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6135. 5
6135. 6
6136. 0
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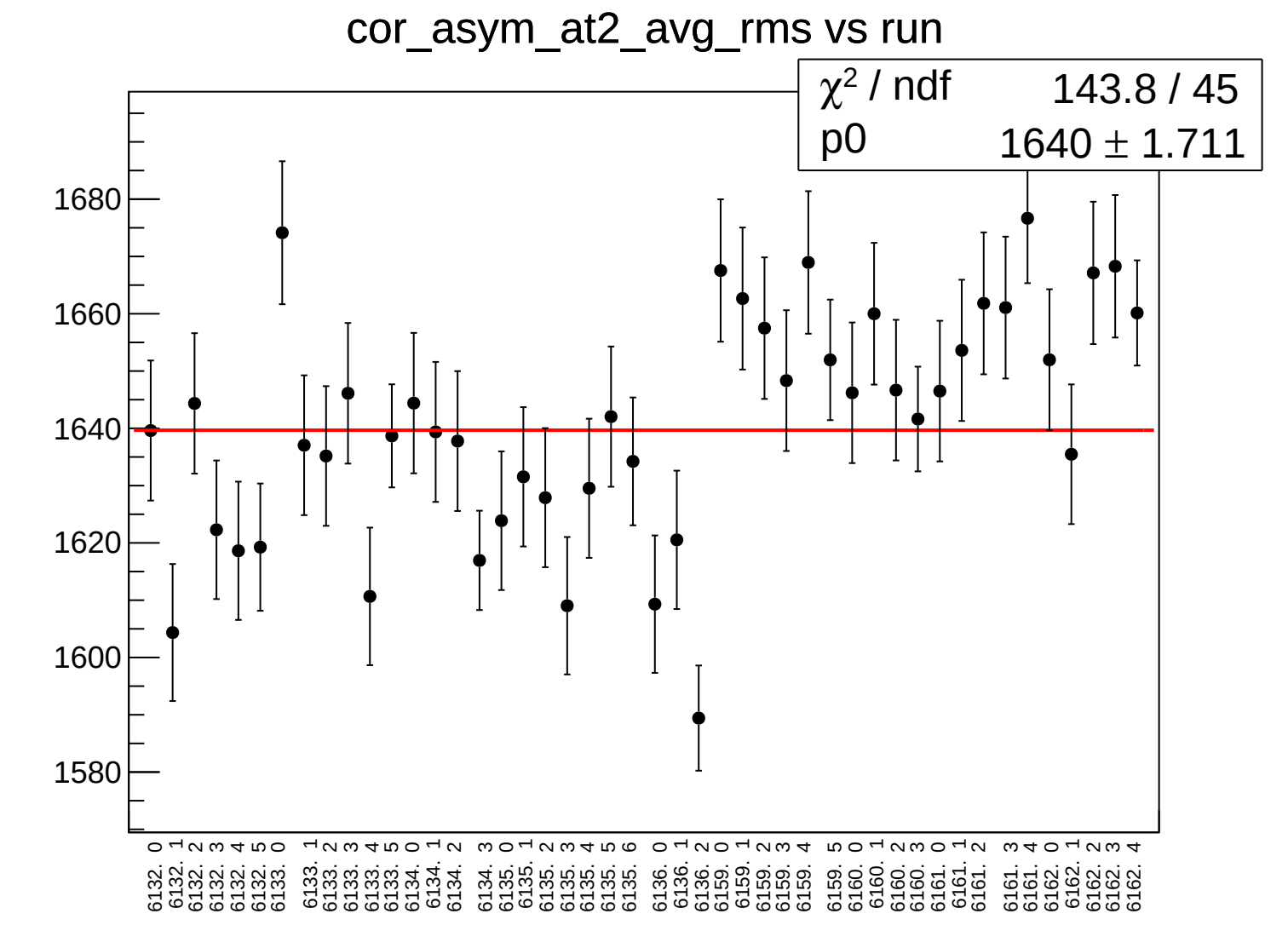
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 270.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.006223
Std Dev 0.8772
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at2_avg_rms vs run
χ² / ndf 143.8 / 45
p0 1640 ± 1.711
1680
1660
1640
1620
1600
1580
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 4
6133. 5
6134. 0
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6134. 2
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6136. 2
6159. 0
6159. 1
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6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6162. 0
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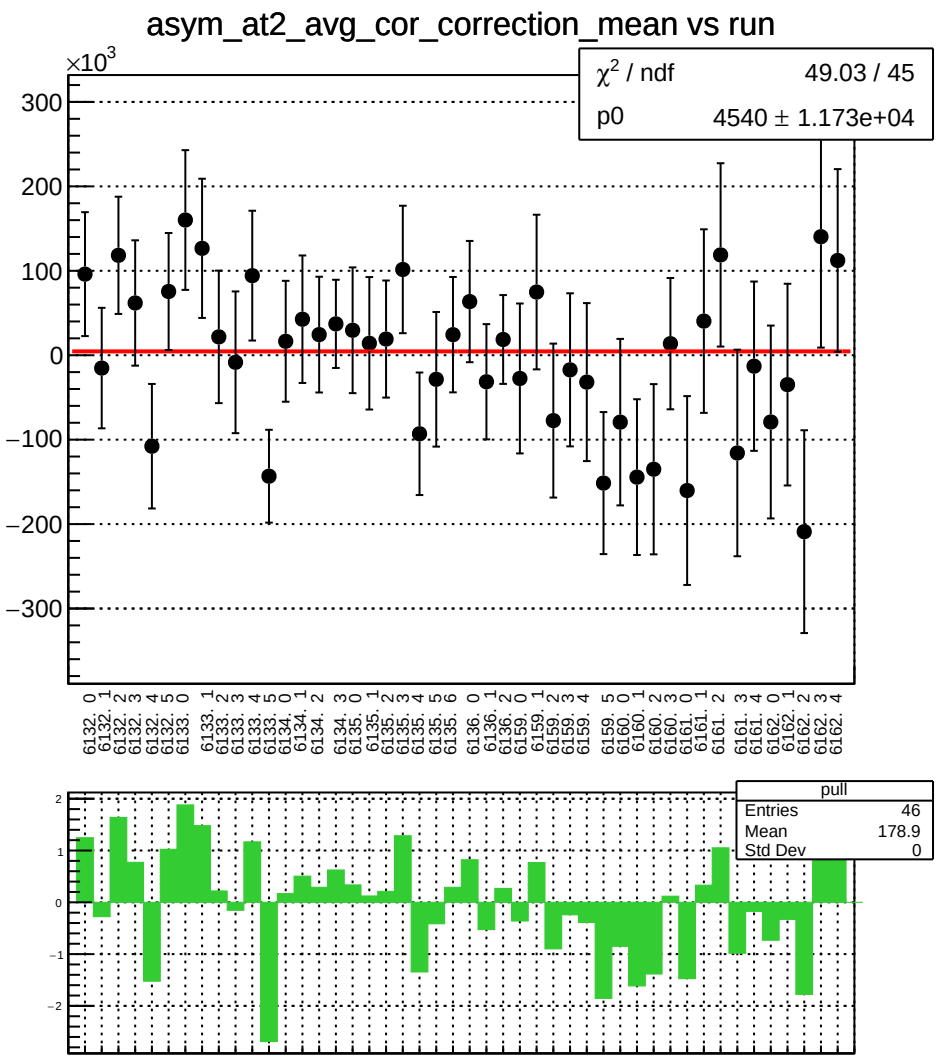
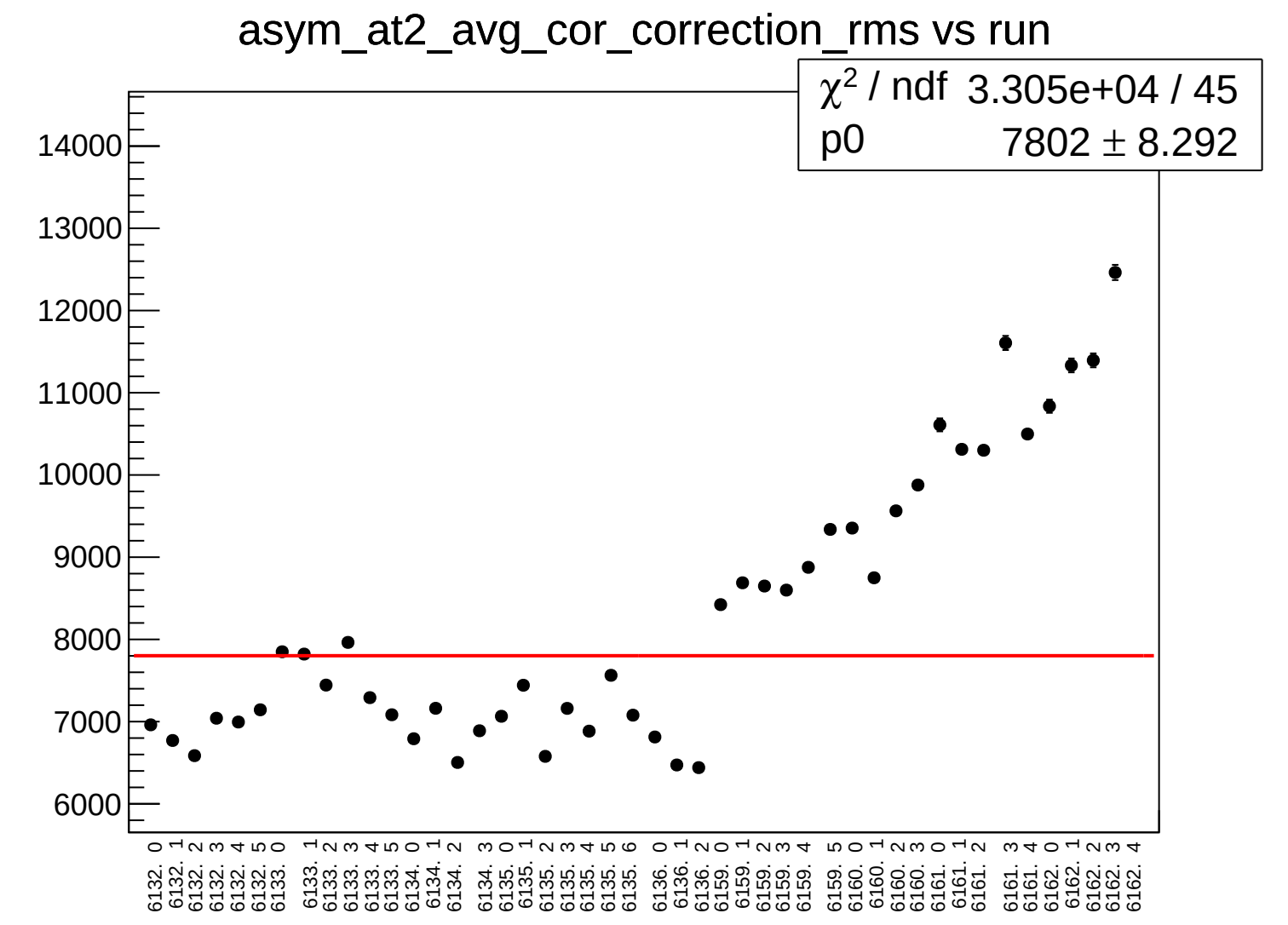
6162. 4


asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 49.03 / 45
p0 4540 ± 1.173e+04
300
200
100
0
−100
−200
−300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 178.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.0292
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_avg_cor_correction_rms vs run
χ² / ndf 3.305e+04 / 45
p0 7802 ± 8.292
14000
13000
12000
11000
10000
9000
8000
7000
6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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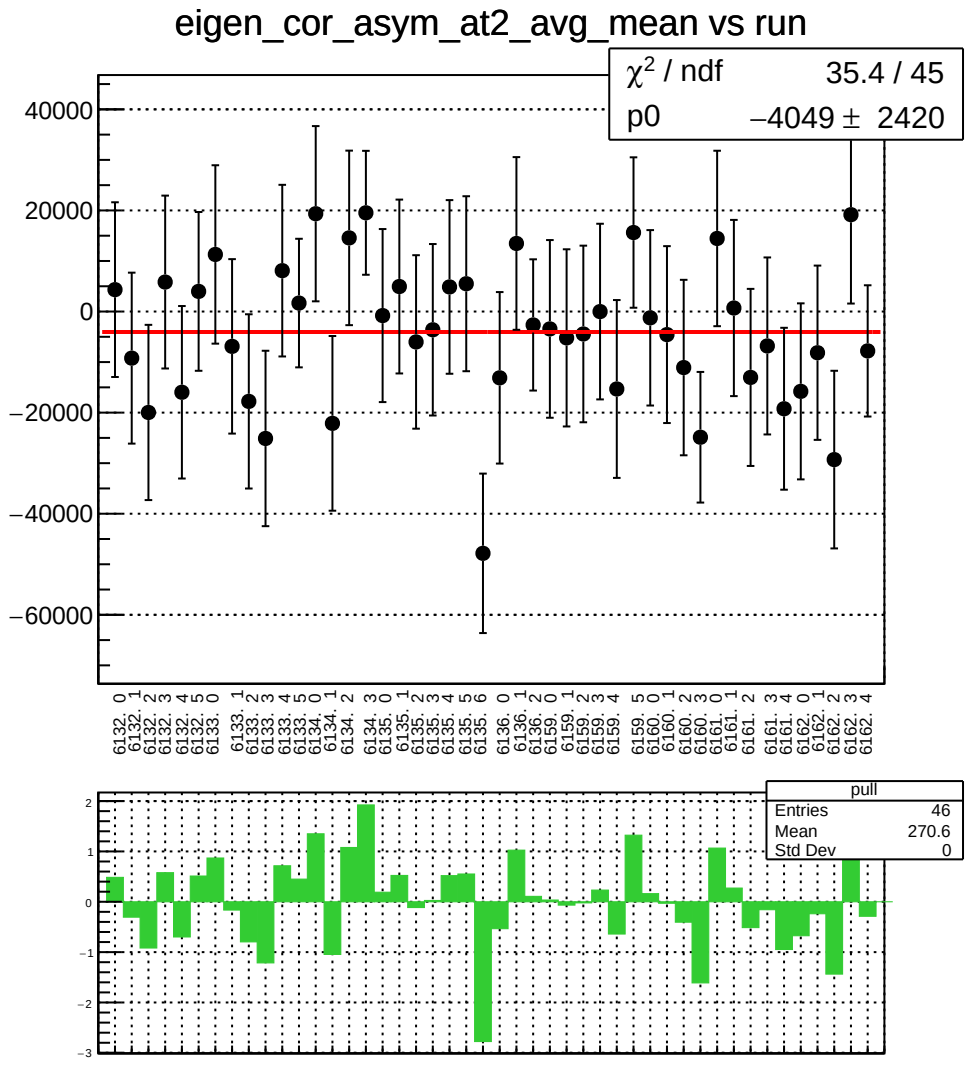
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 35.4 / 45
p0 −4049 ± 2420
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
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6135. 1
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6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 270.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.006223
Std Dev 0.8772
9
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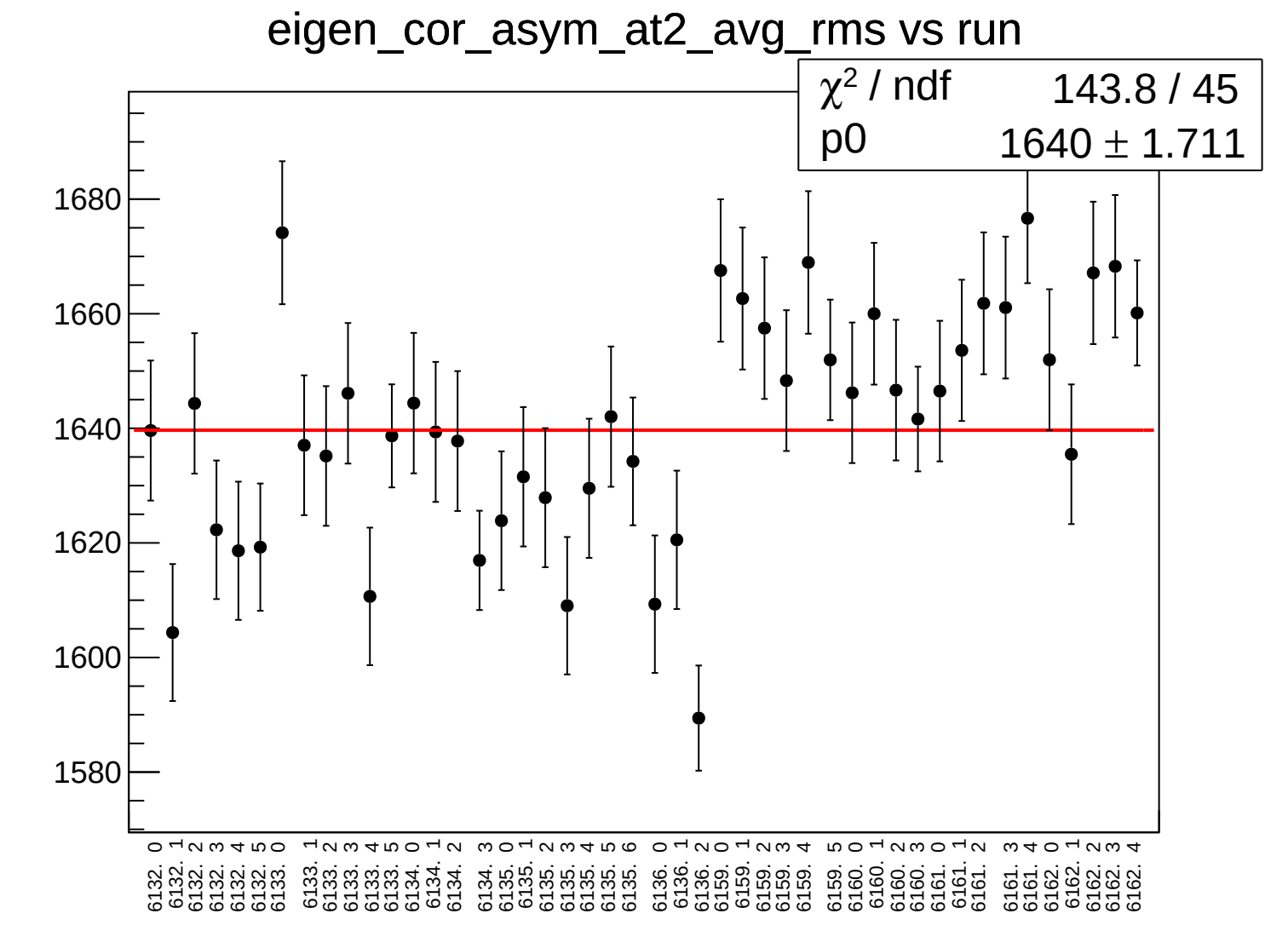
eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 143.8 / 45
p0 1640 ± 1.711
1680
1660
1640
1620
1600
1580
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
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6135. 3
6135. 4
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6135. 6
6136. 0
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6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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6162. 0
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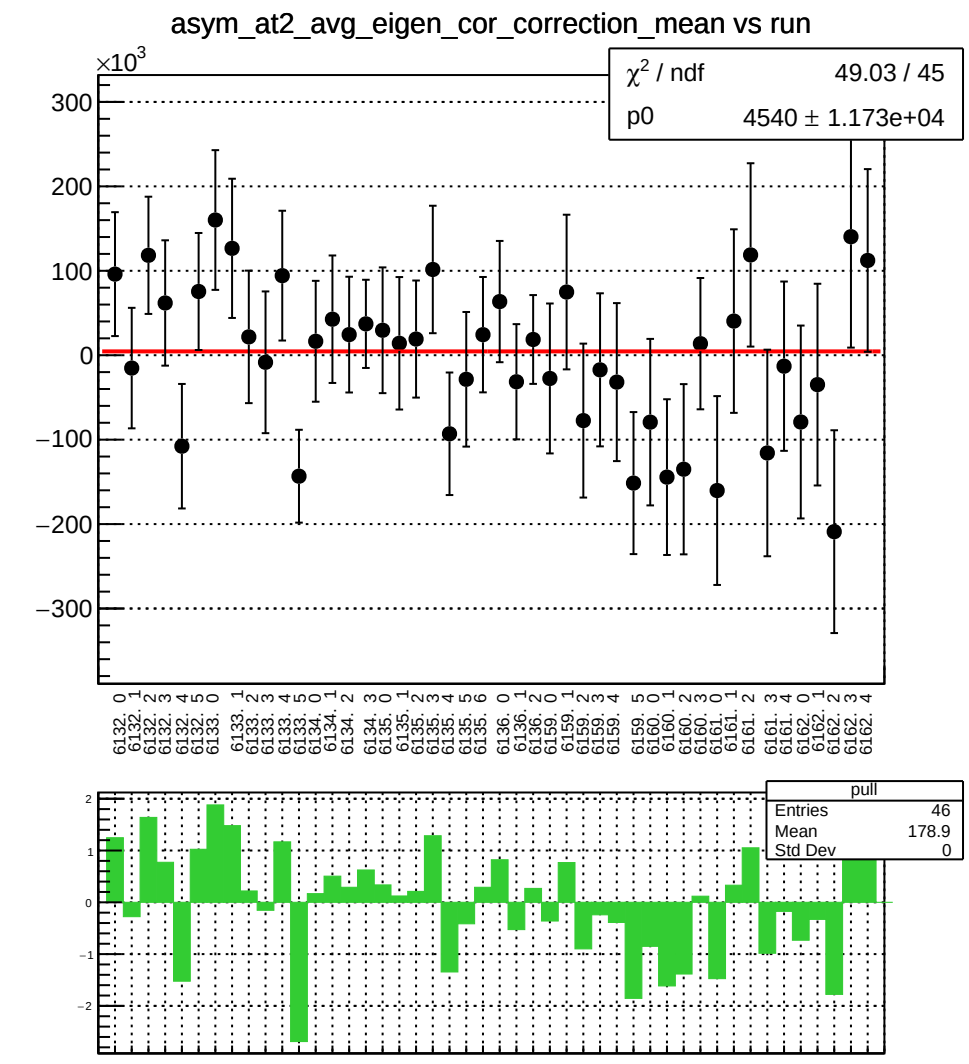
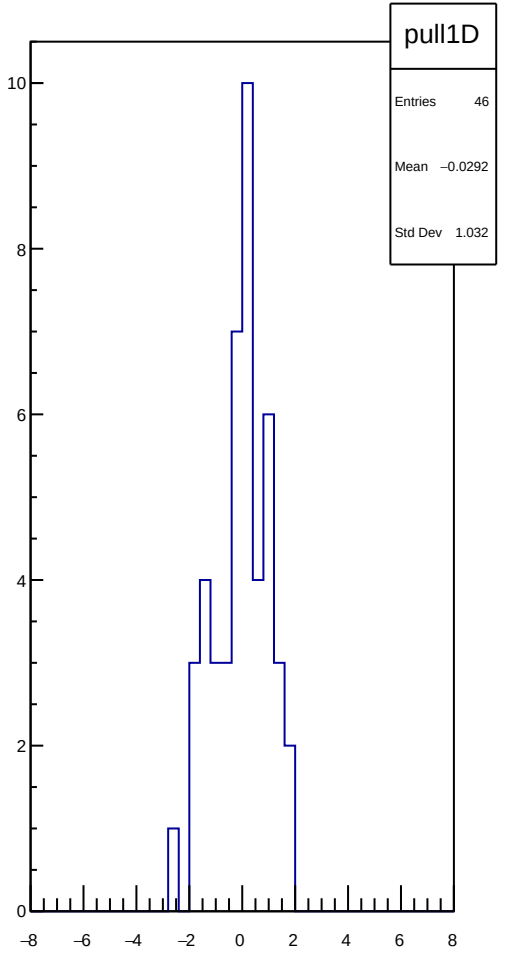
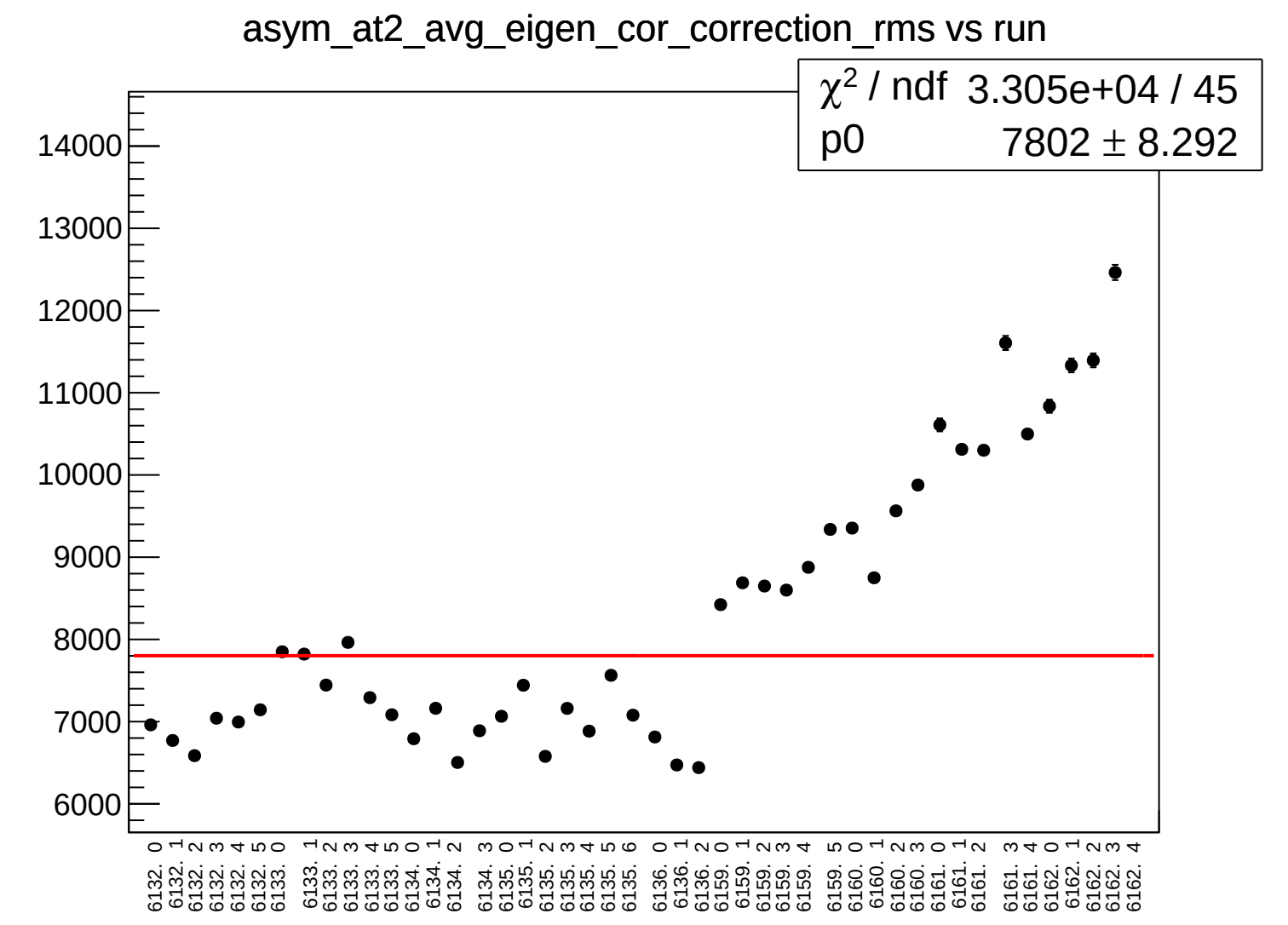
6162. 4


asym_at2_avg_eigen_cor_correction_mean vs run
χ² / ndf 49.03 / 45
p0 4540 ± 1.173e+04
×10³
pull
Entries 46
Mean 178.9
Std Dev 0


pull1D
Entries 46
Mean −0.0292
Std Dev 1.032


asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.305e+04 / 45
p0 7802 ± 8.292
14000
13000
12000
11000
10000
9000
8000
7000
6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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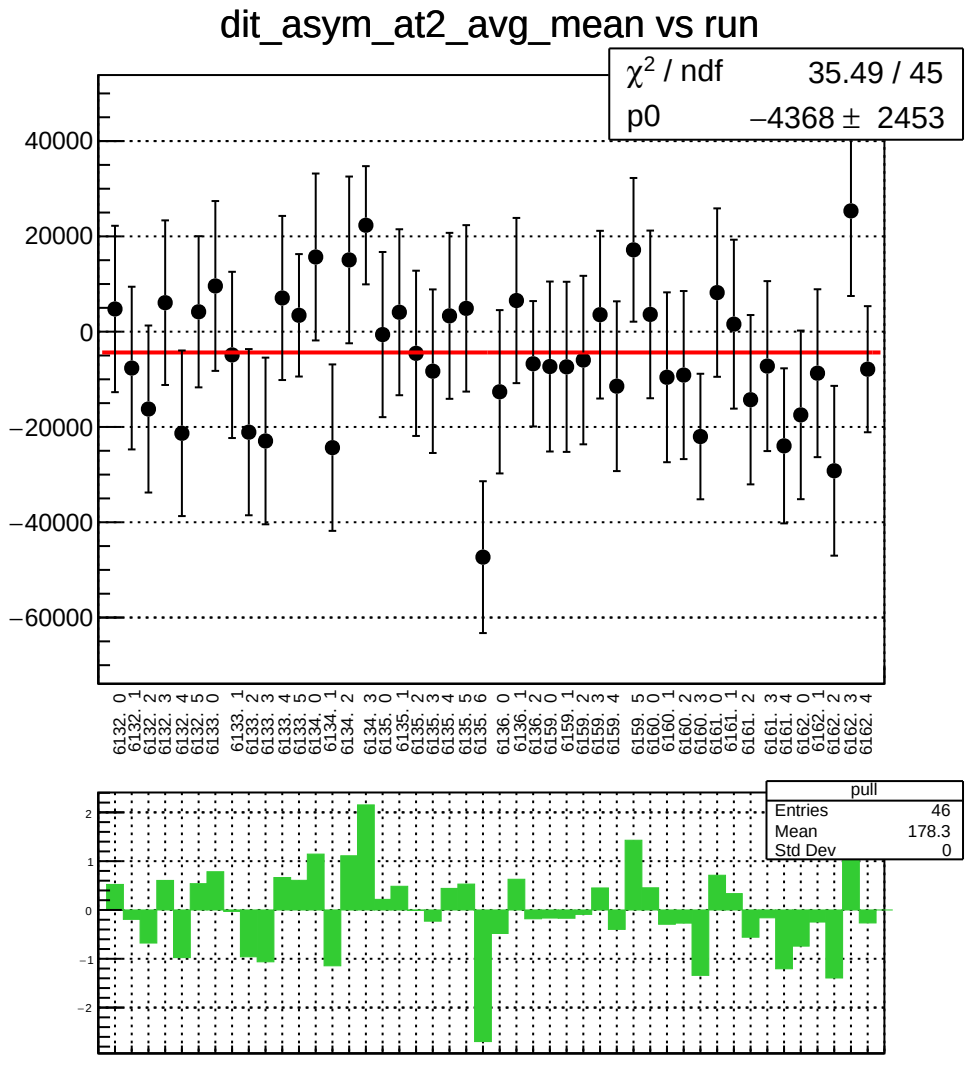
6162. 3
6162. 4


dit_asym_at2_avg_mean vs run
χ² / ndf 35.49 / 45
p0 −4368 ± 2453
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
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6133. 4
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6134. 0
6134. 1
6134. 2
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6136. 0
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6136. 2
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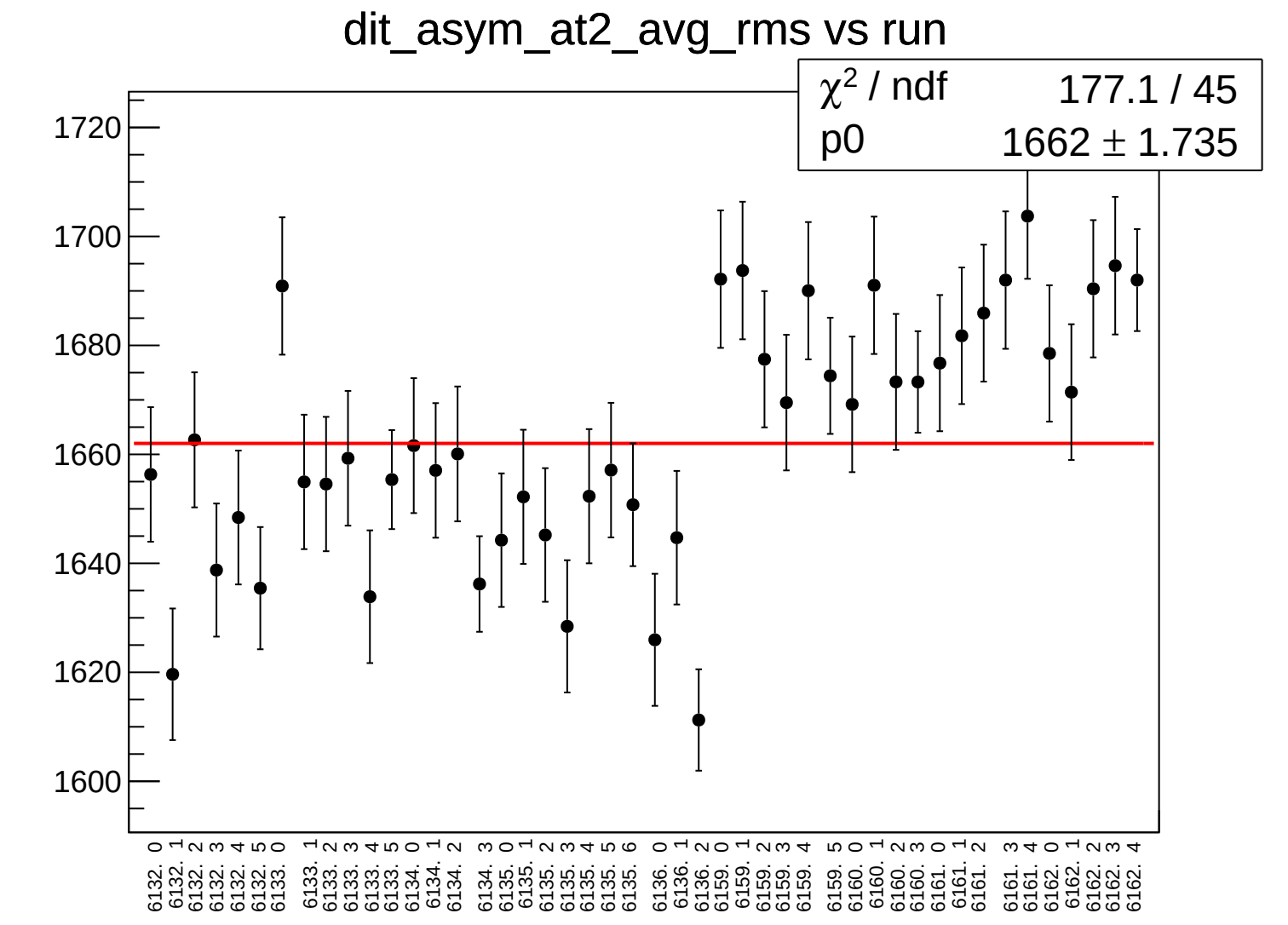
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 178.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.009825
Std Dev 0.8783
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_at2_avg_rms vs run
χ² / ndf 177.1 / 45
p0 1662 ± 1.735
1720
1700
1680
1660
1640
1620
1600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 4
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6135. 1
6135. 2
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6135. 4
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6136. 0
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6159. 3
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6160. 0
6160. 1
6160. 2
6160. 3
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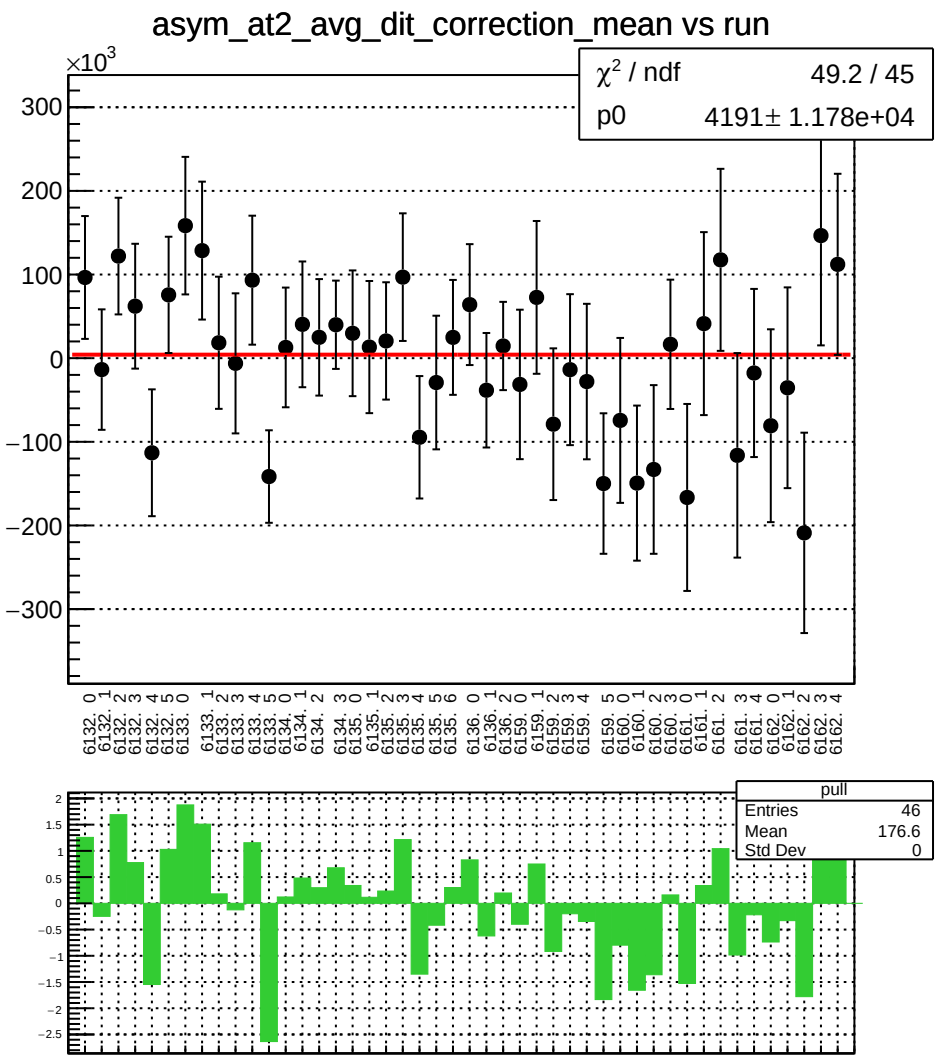
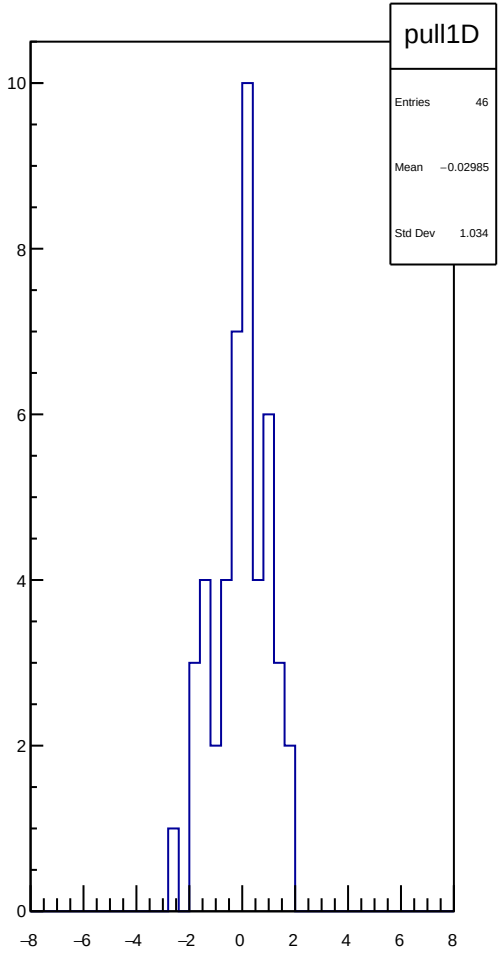
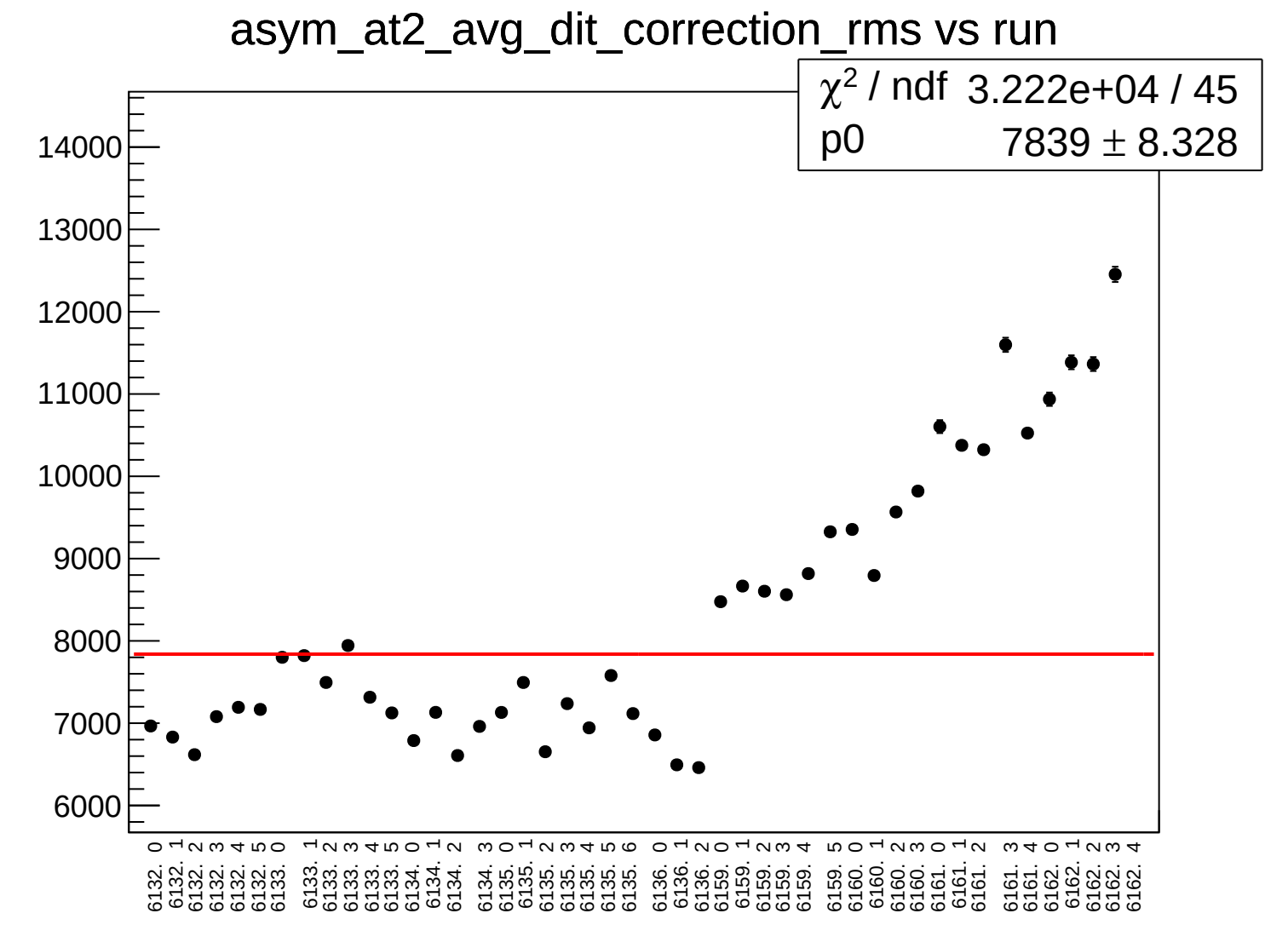

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 49.2 / 45
p0 4191± 1.178e+04
pull
Entries 46
Mean 176.6
Std Dev 0


pull1D
Entries 46
Mean −0.02985
Std Dev 1.034


asym_at2_avg_dit_correction_rms vs run
χ² / ndf 3.222e+04 / 45
p0 7839 ± 8.328
14000
13000
12000
11000
10000
9000
8000
7000
6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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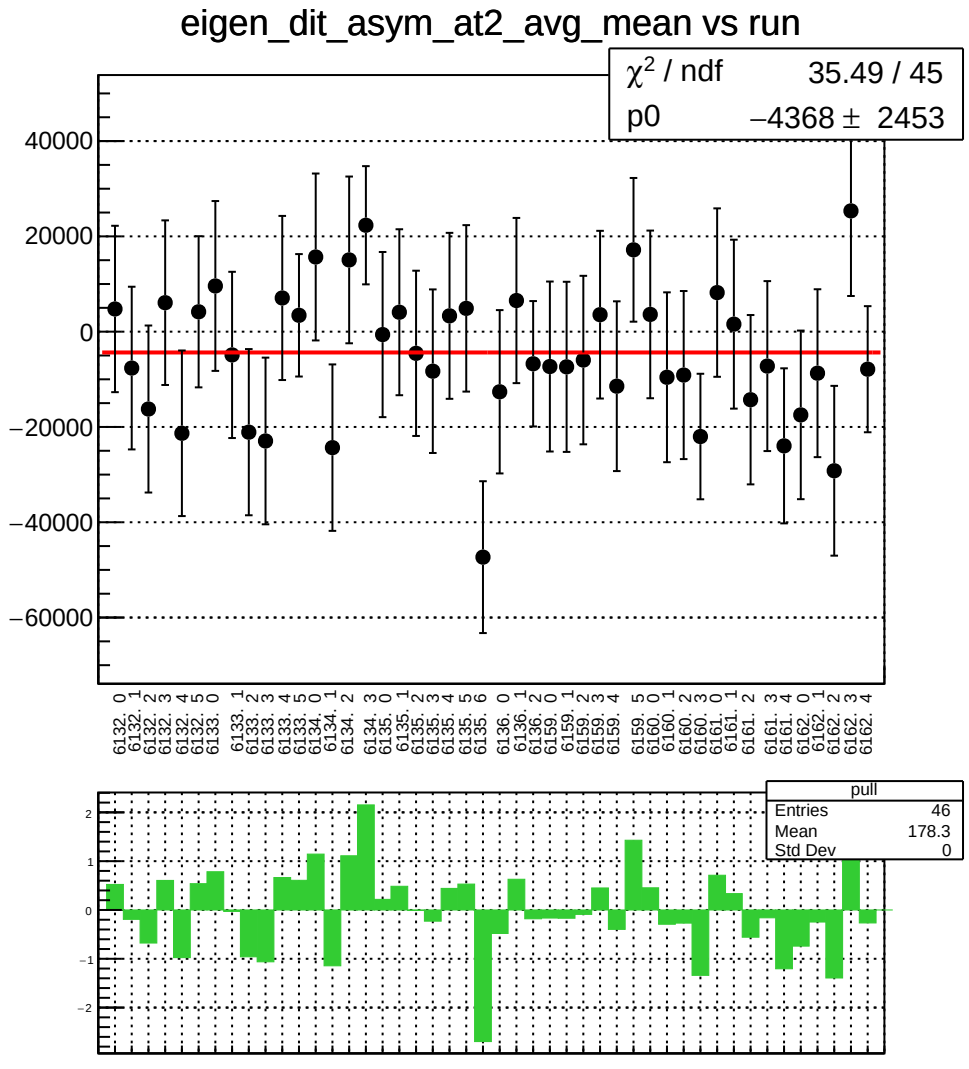
eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 35.49 / 45
p0 −4368 ± 2453
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 178.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.009825
Std Dev 0.8783
14
12
10
8
6
4
2
0
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−6
−4
−2
0
2
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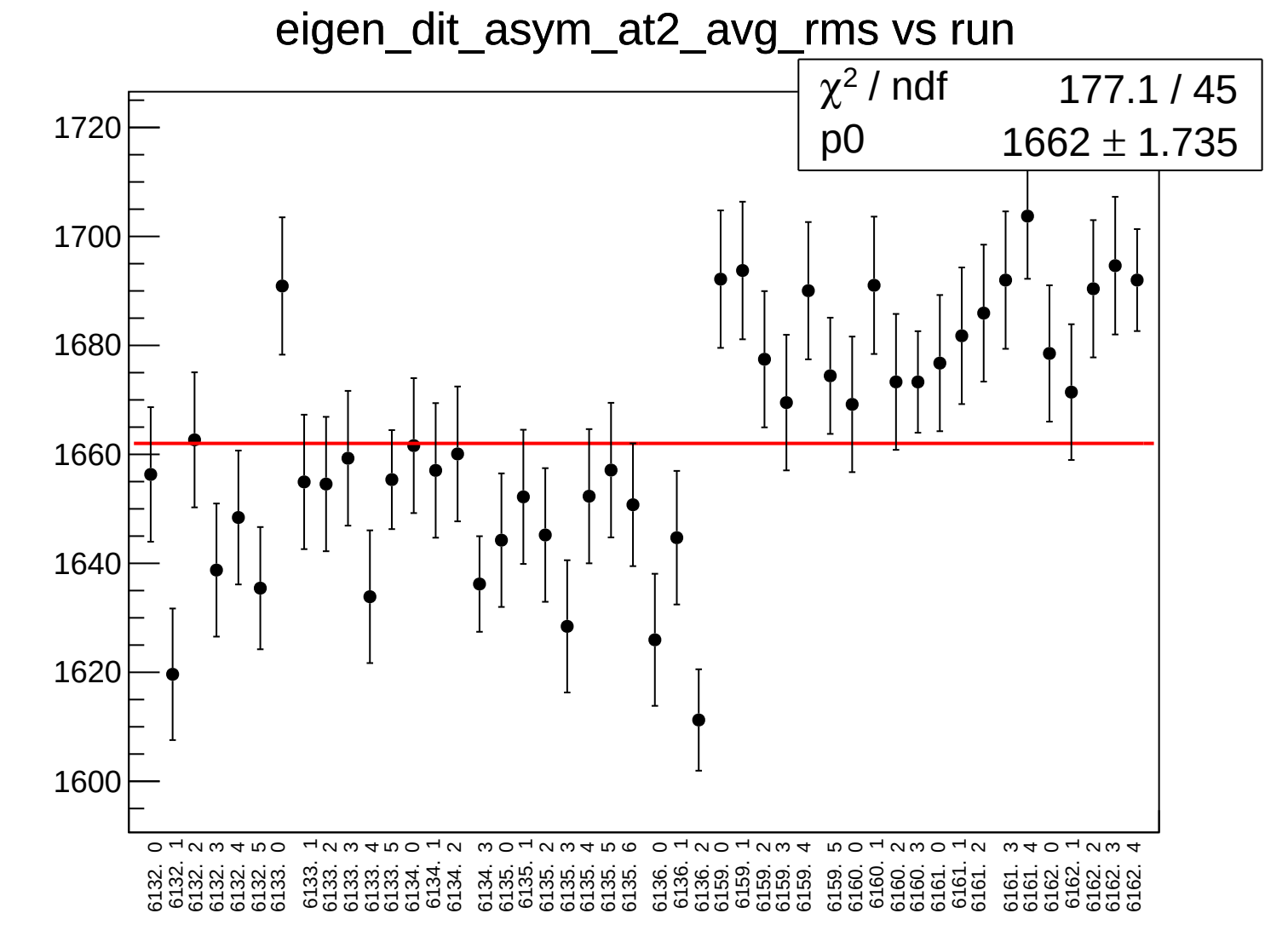
8


eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 177.1 / 45
p0 1662 ± 1.735
1720
1700
1680
1660
1640
1620
1600
6132. 0
6132. 1
6132. 2
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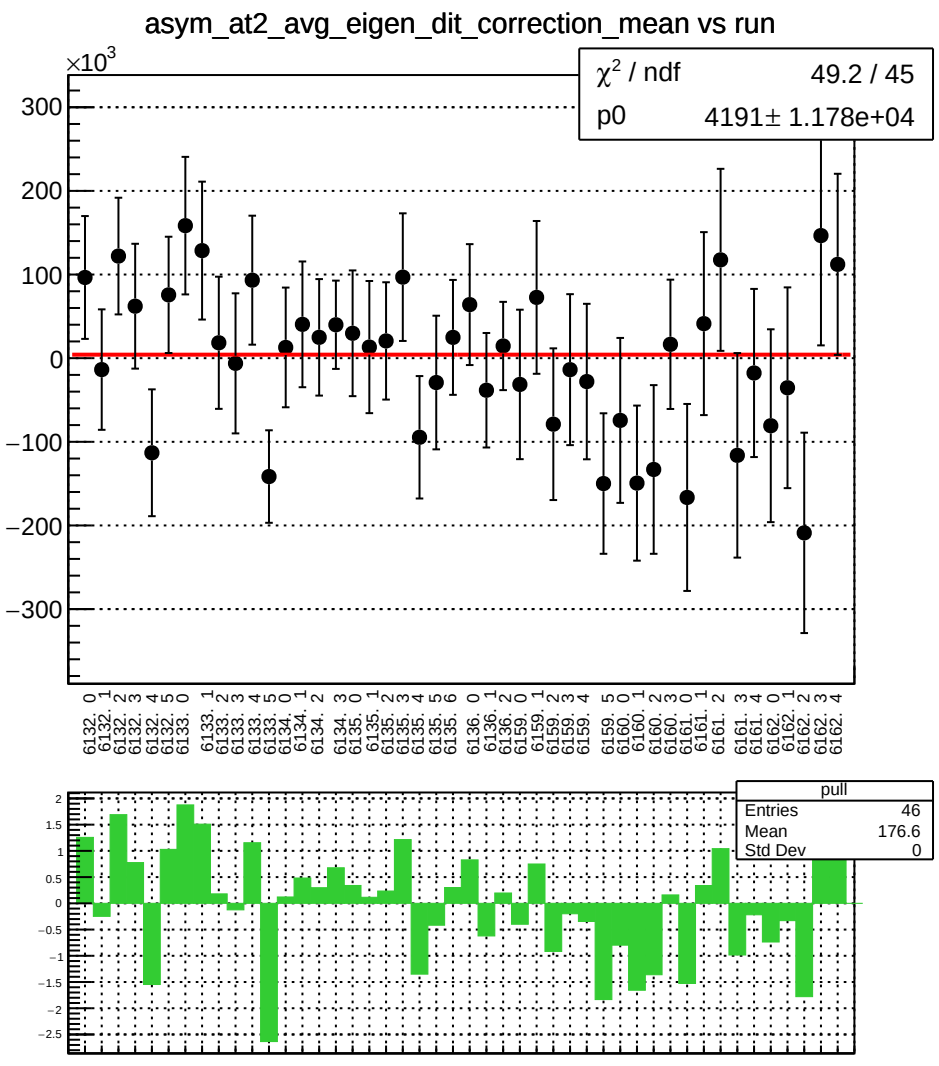
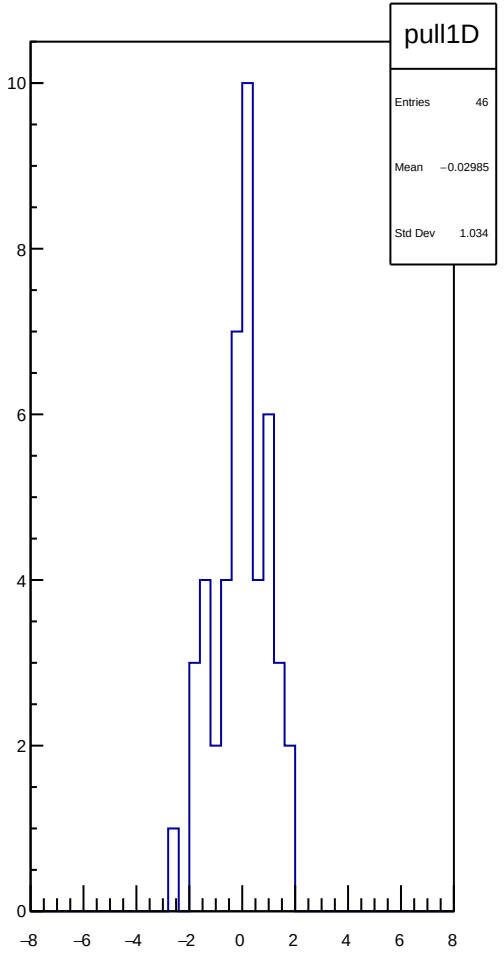
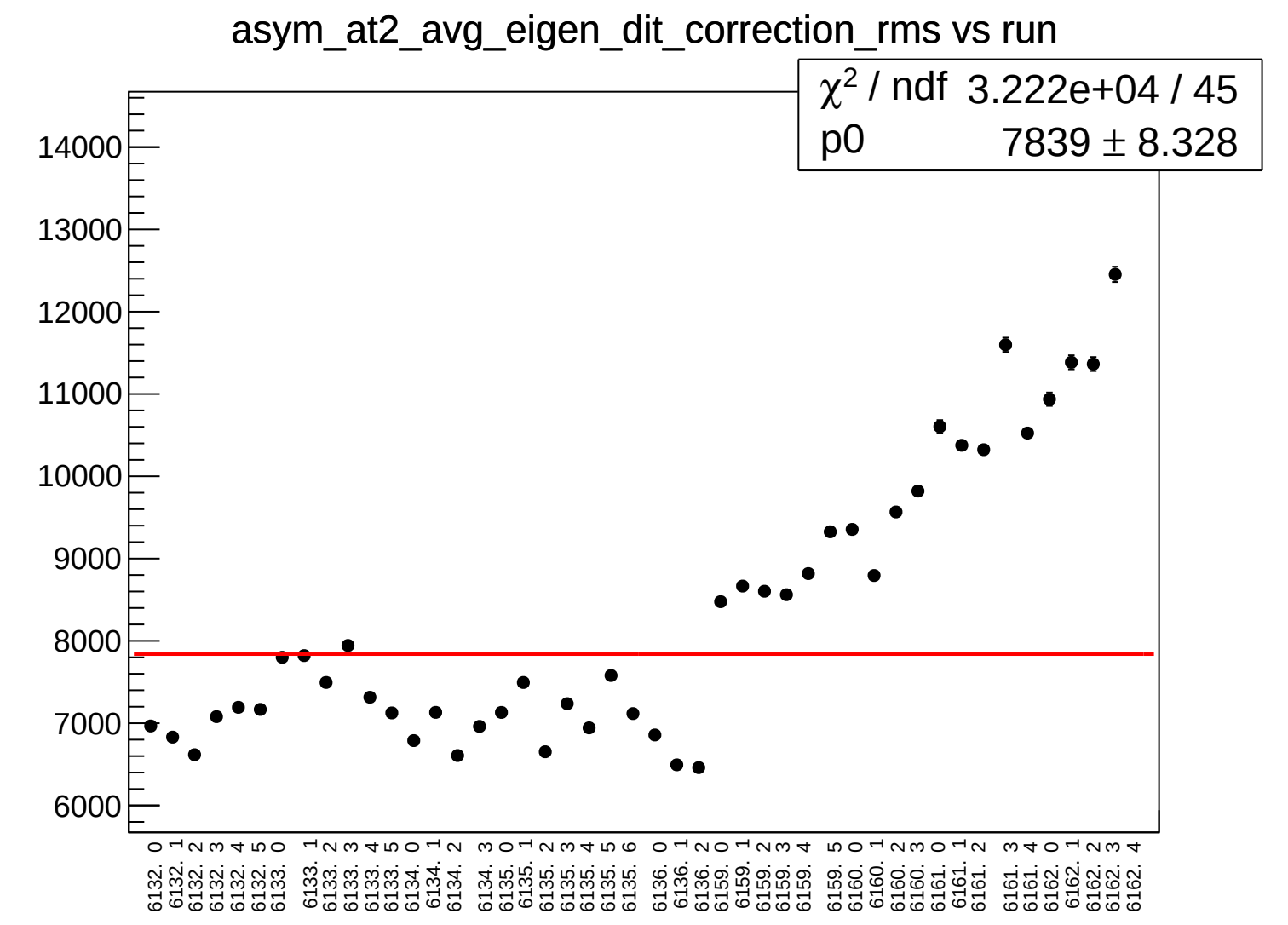
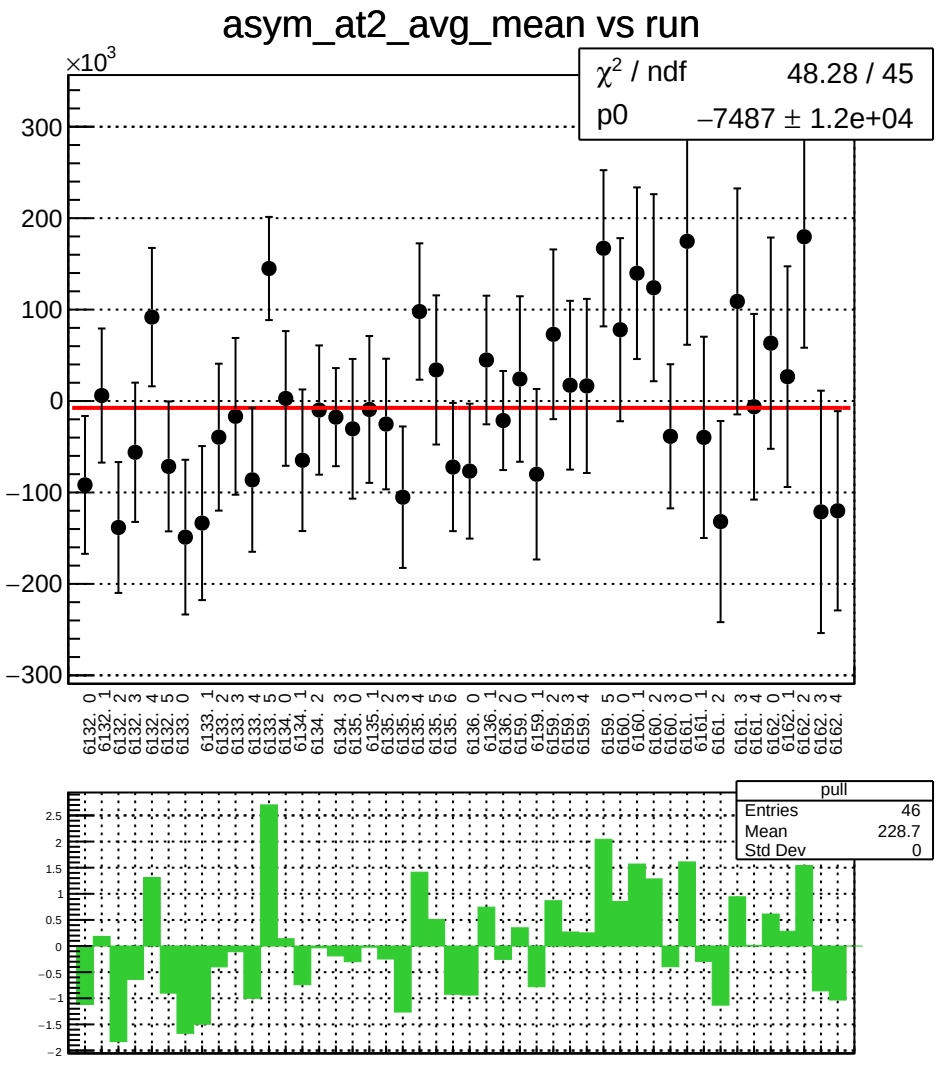
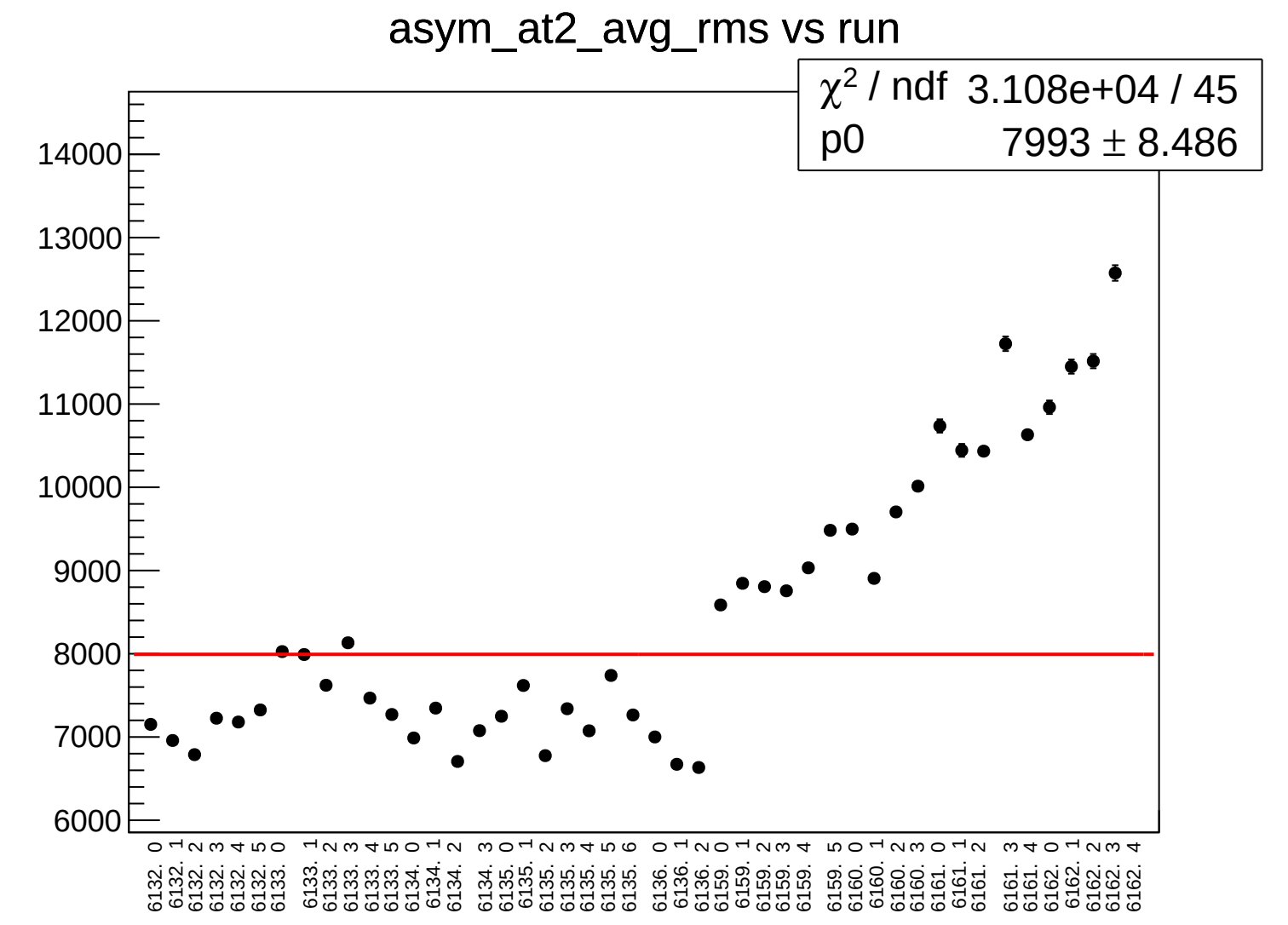
6162. 4

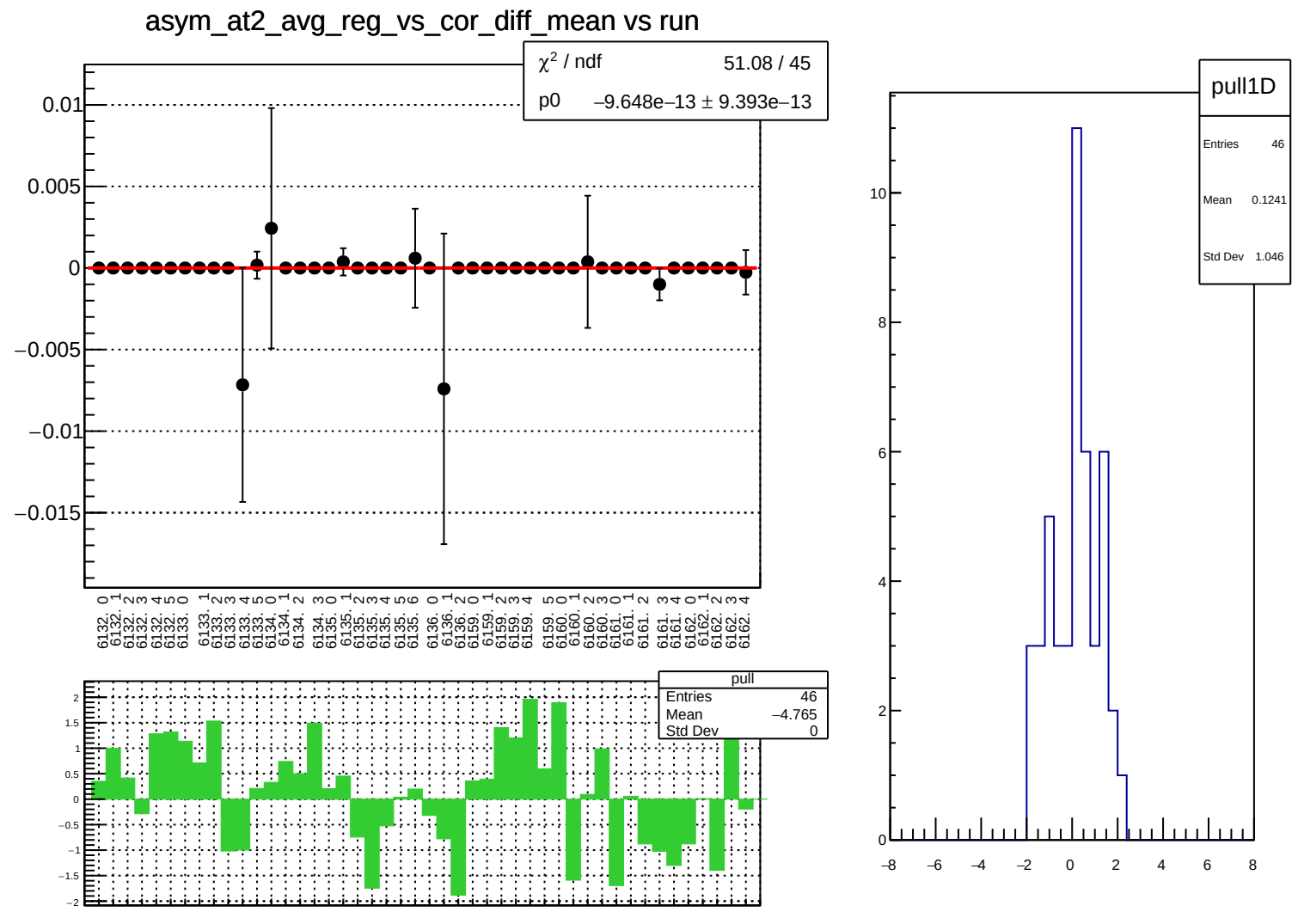

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 49.2 / 45
p0 4191± 1.178e+04
pull
Entries 46
Mean 176.6
Std Dev 0

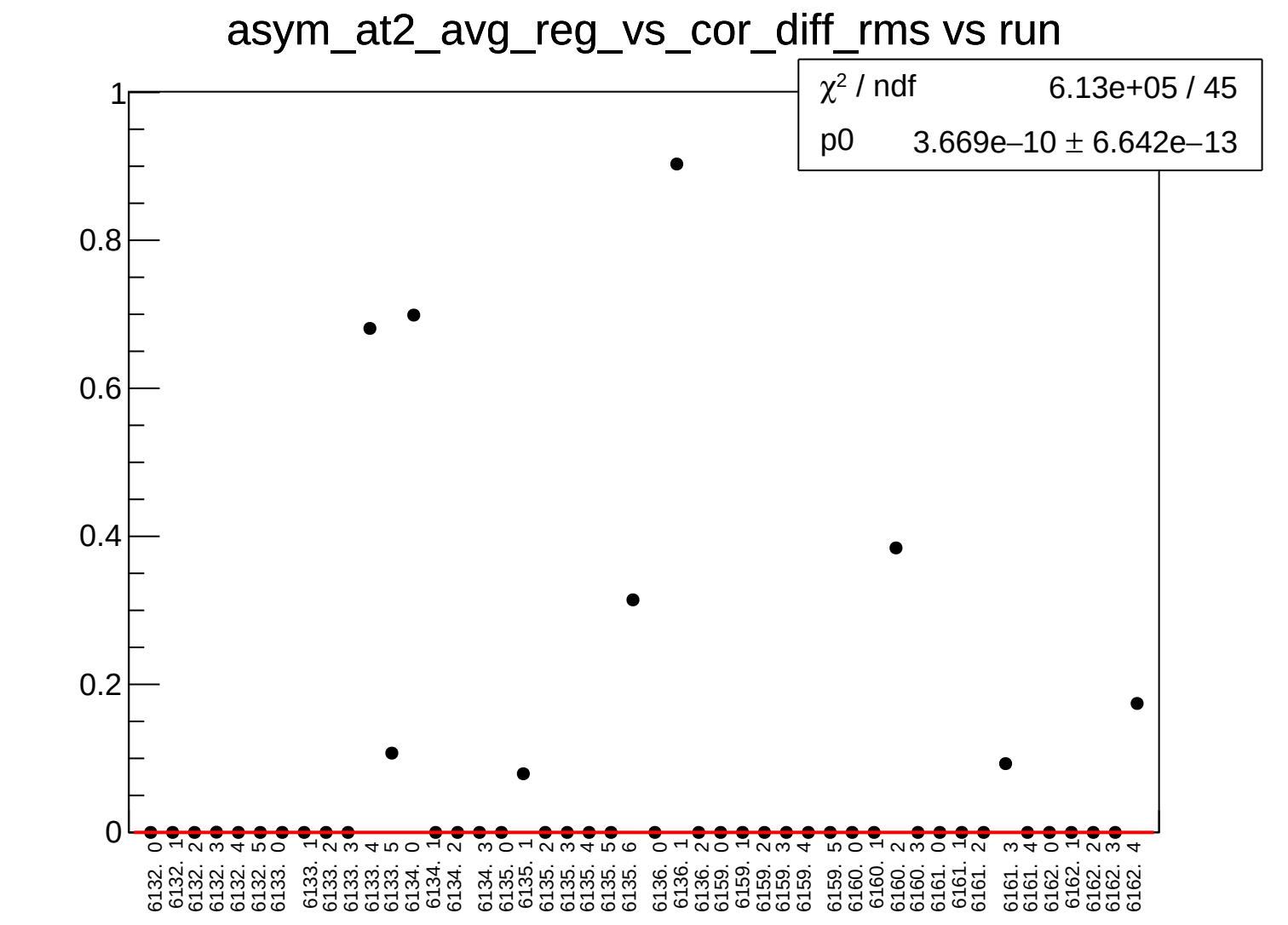

pull1D
Entries 46
Mean −0.02985
Std Dev 1.034

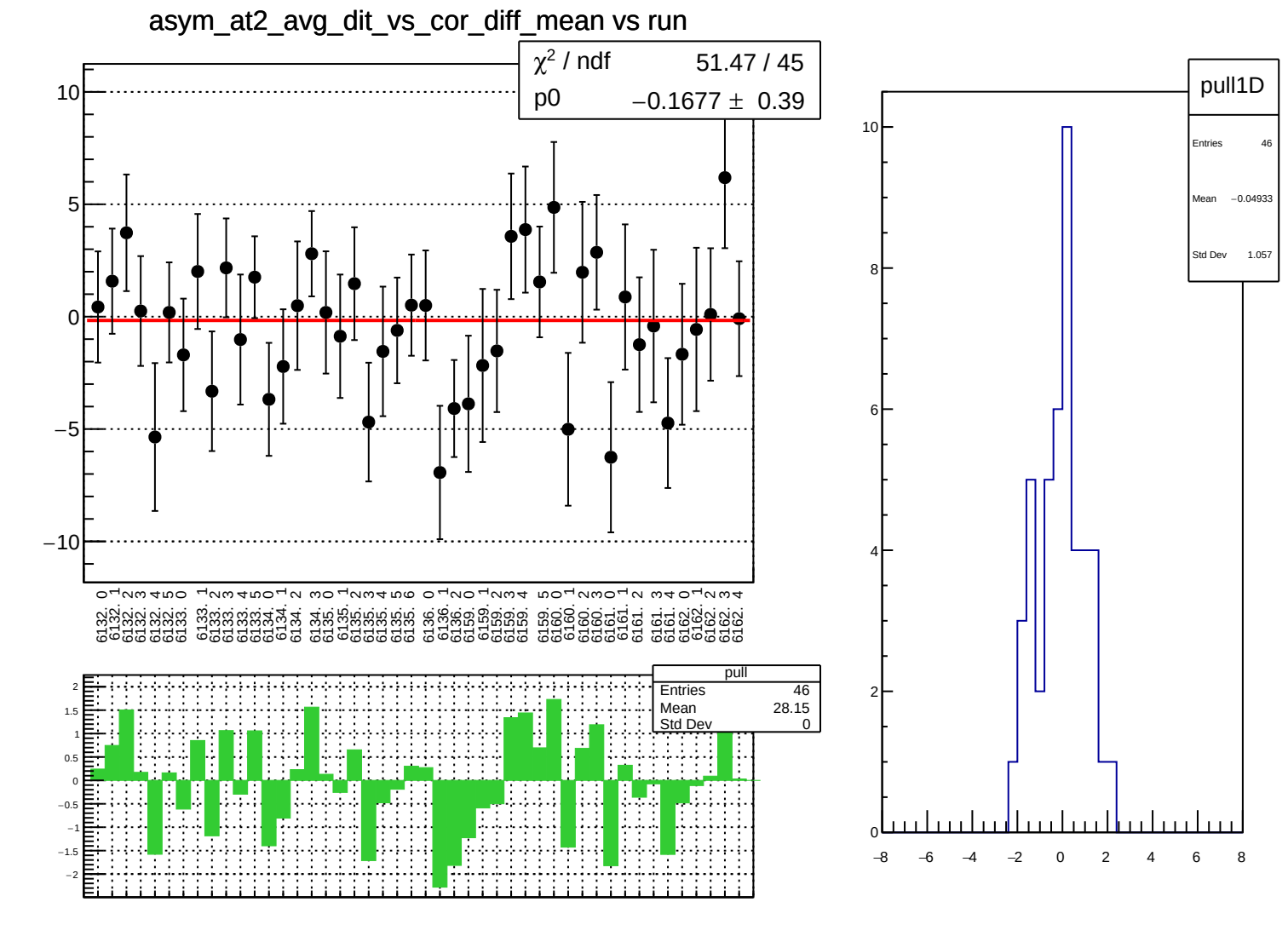

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.222e+04 / 45
p0 7839 ± 8.328
14000
13000
12000
11000
10000
9000
8000
7000
6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

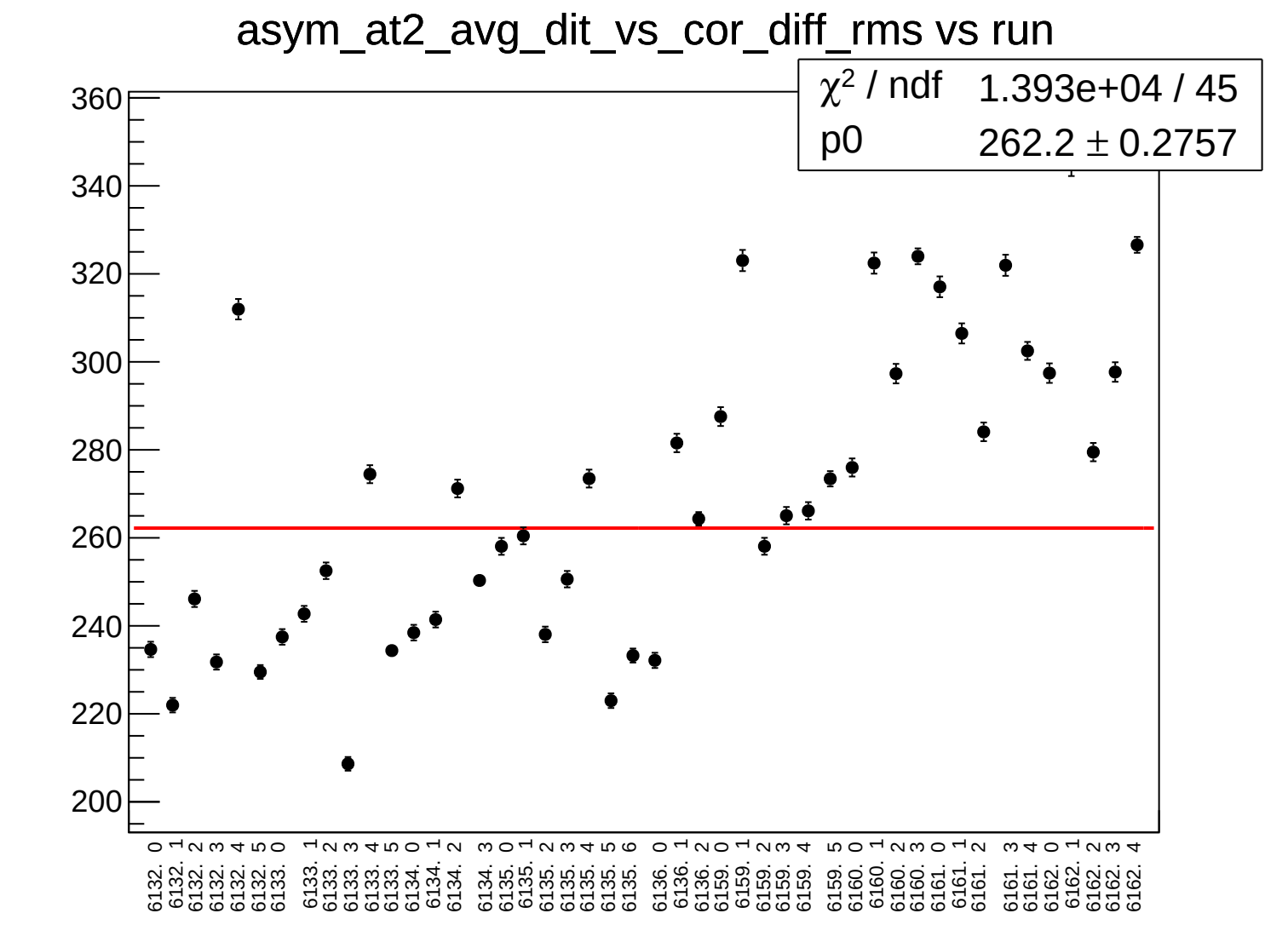

asym_at2_avg_mean vs run
×10^3
χ² / ndf 48.28 / 45
p0 −7487 ± 1.2e+04
300
200
100
0
−100
−200
−300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6136. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 228.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.02044
Std Dev 1.024
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

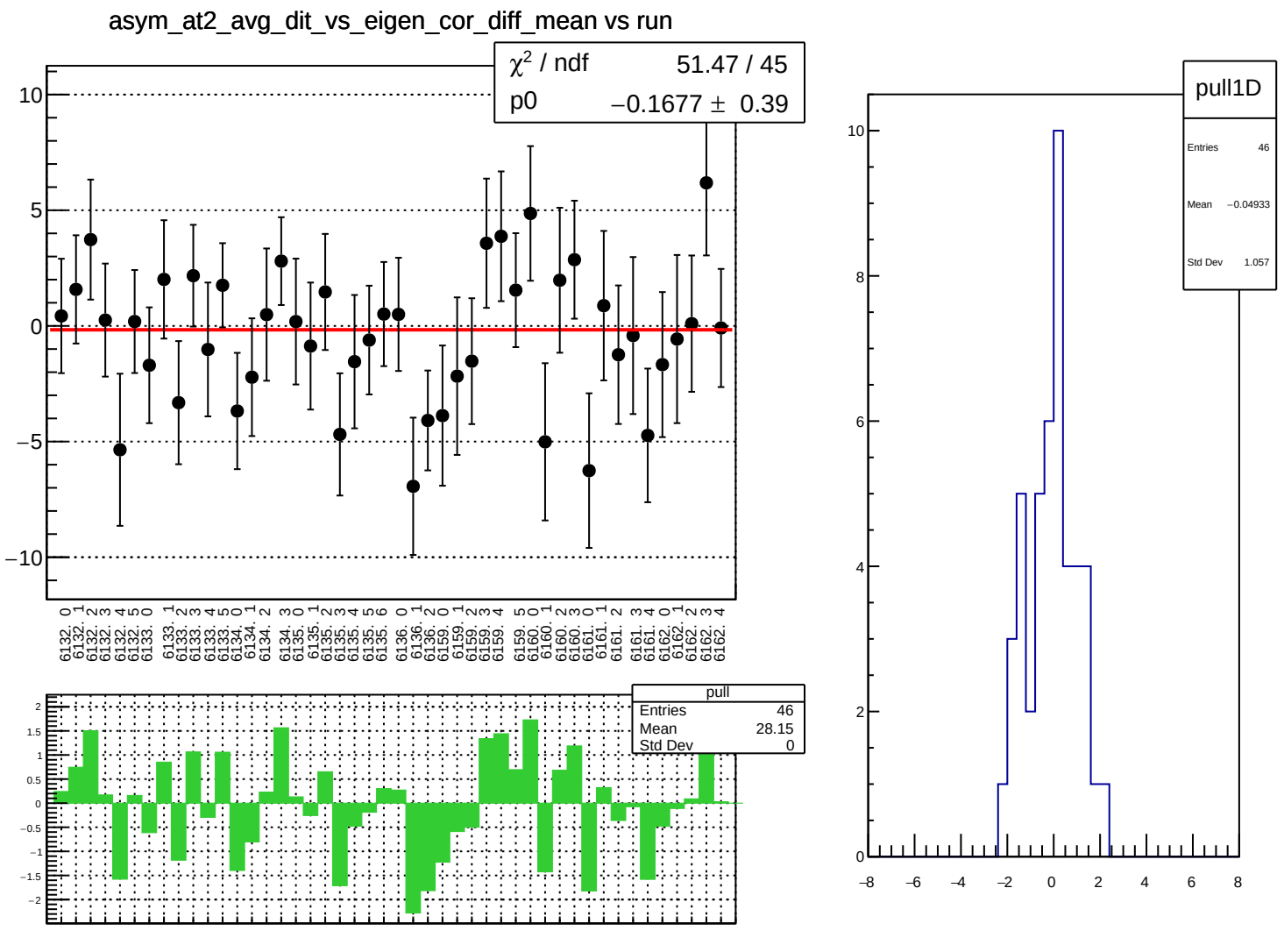

asym_at2_avg_rms vs run
χ² / ndf 3.108e+04 / 45
p0 7993 ± 8.486
14000
13000
12000
11000
10000
9000
8000
7000
6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

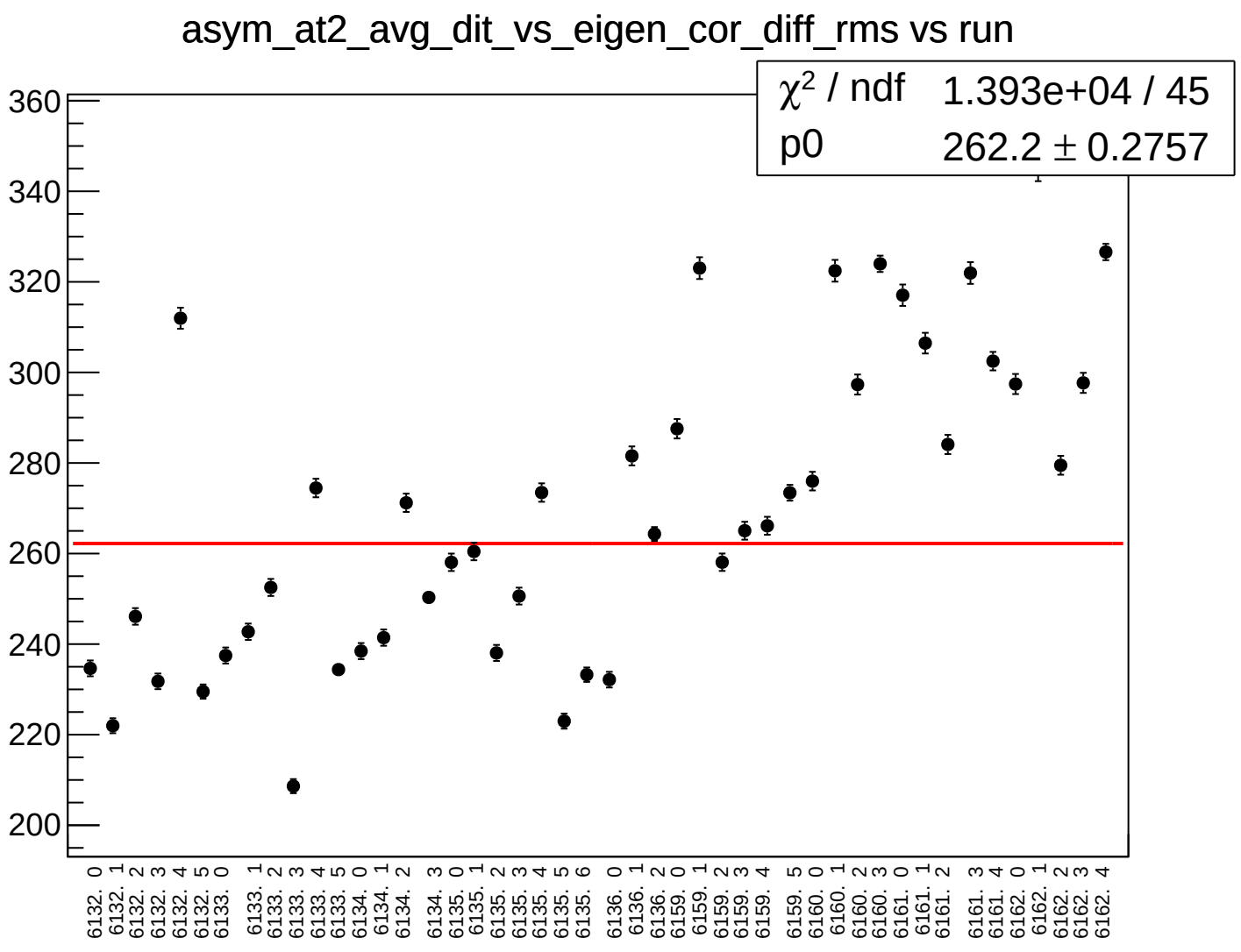

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 51.08 / 45
p0 −9.648e−13 ± 9.393e−13
0.01
0.005
0
−0.005
−0.01
−0.015
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −4.765
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.1241
Std Dev 1.046
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

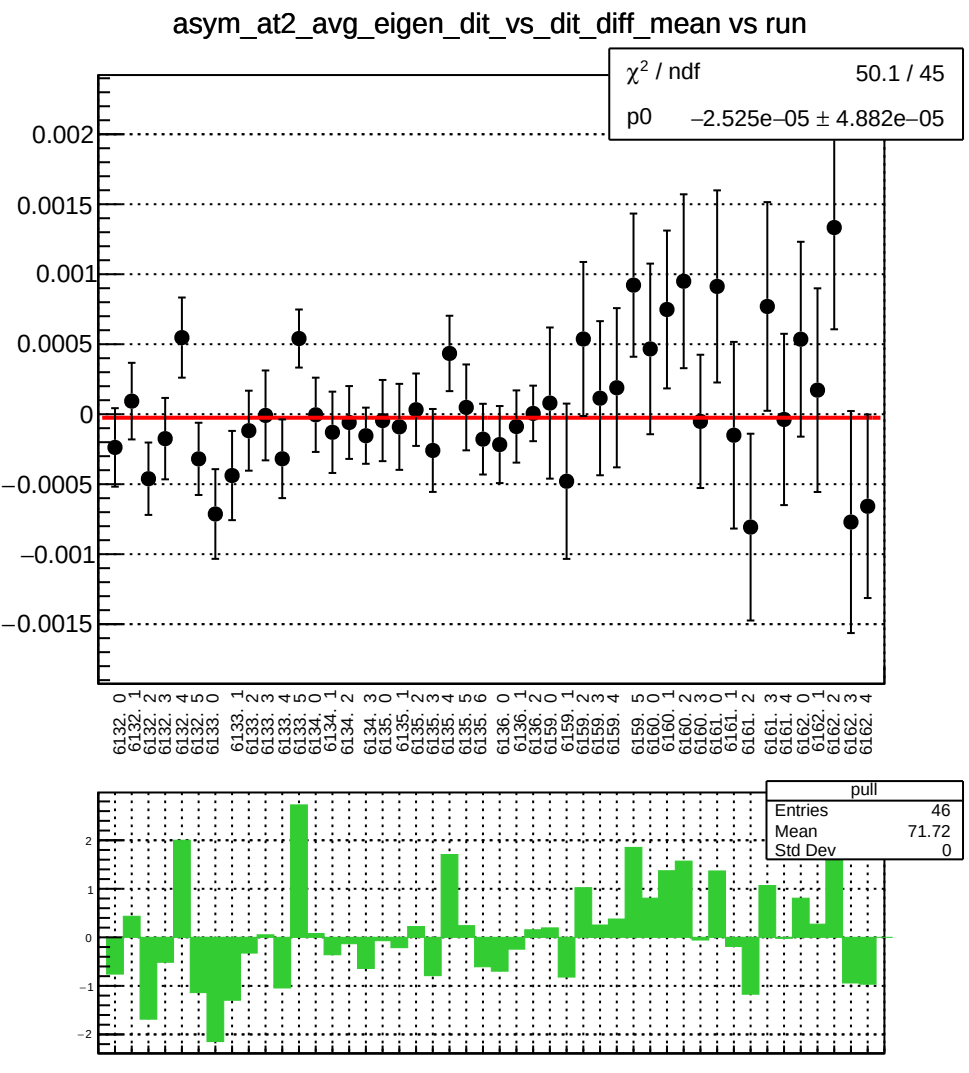

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.13e+05 / 45
p0 3.669e−10 ± 6.642e−13
1
0.8
0.6
0.4
0.2
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

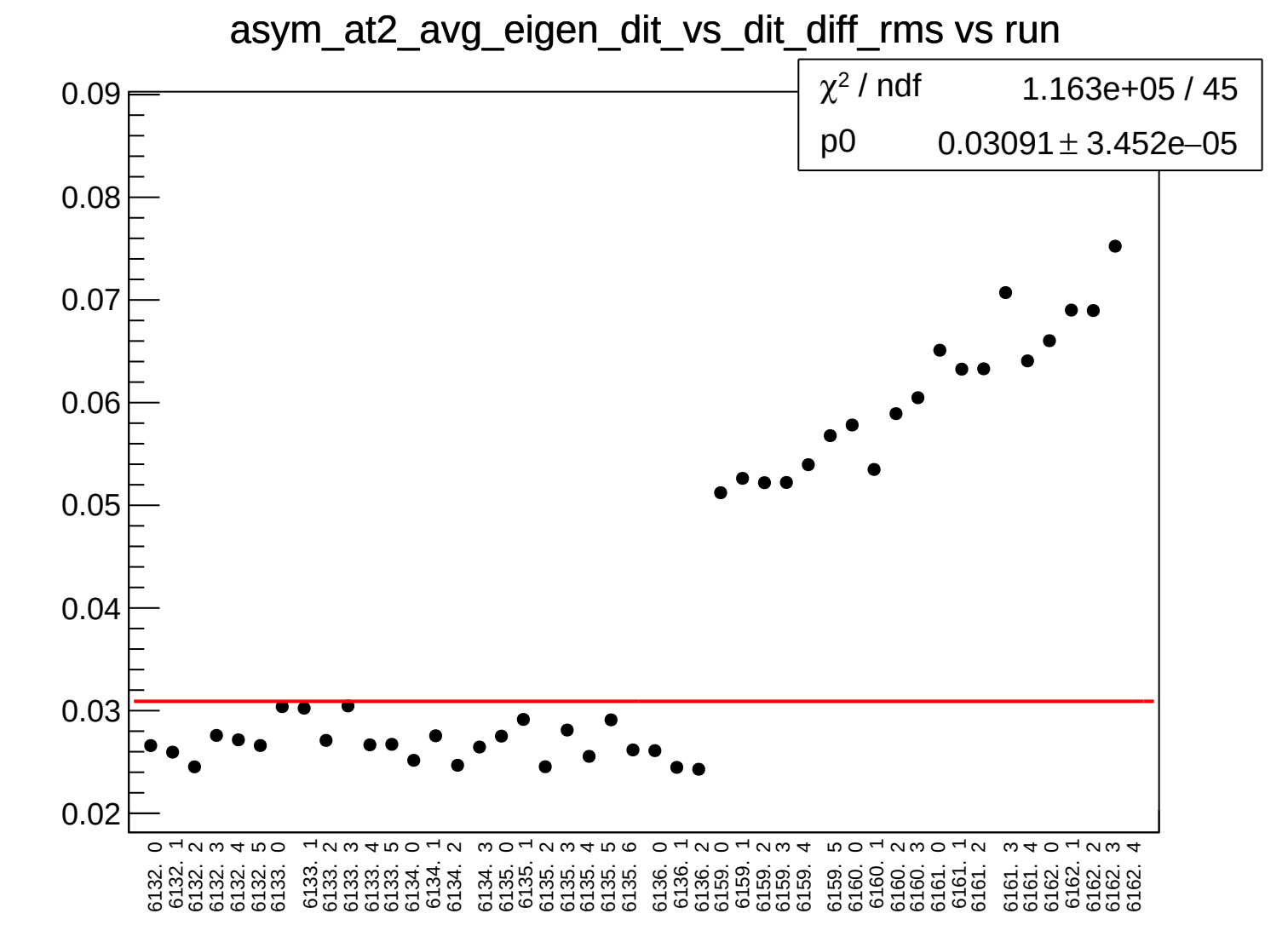

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 51.47 / 45
p0 −0.1677 ± 0.39
10
5
0
−5
−10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 28.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.04933
Std Dev 1.057
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

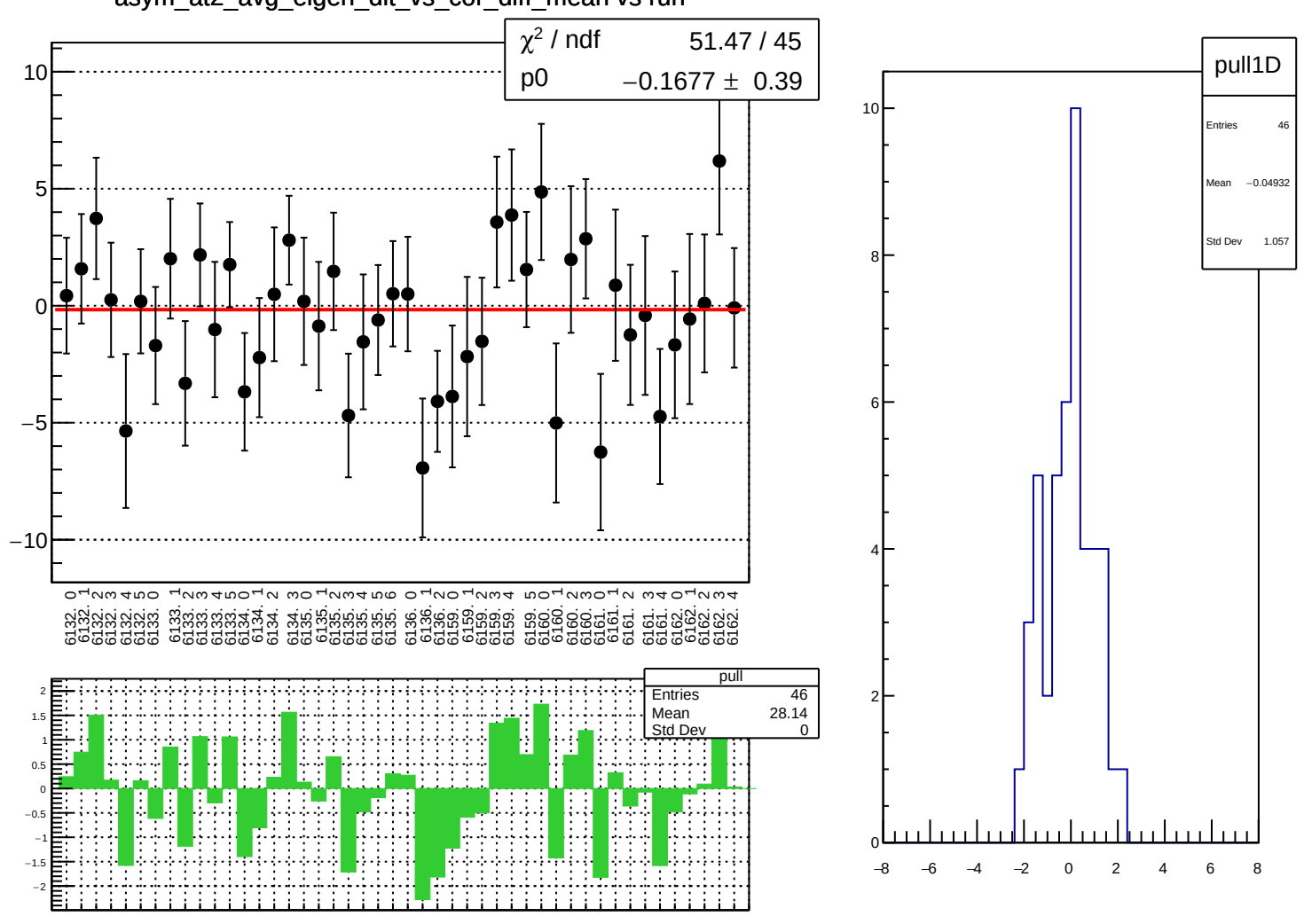

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.393e+04 / 45
p0 262.2 ± 0.2757
360
340
320
300
280
260
240
220
200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

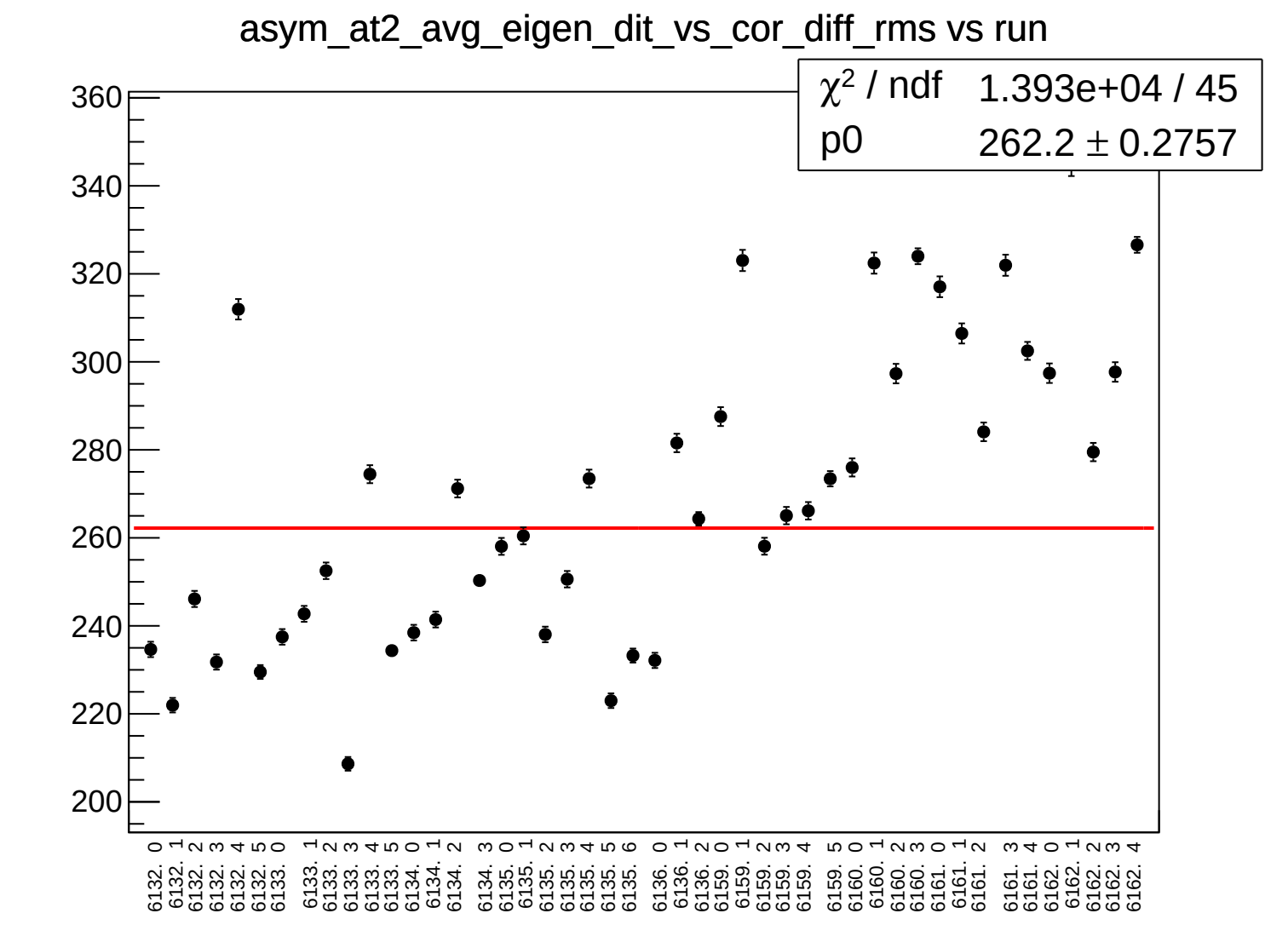

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.47 / 45
p0 −0.1677 ± 0.39
10
5
0
−5
−10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 28.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.04933
Std Dev 1.057
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.393e+04 / 45
p0 262.2 ± 0.2757
360
340
320
300
280
260
240
220
200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 50.1 / 45
p0 −2.525e−05 ± 4.882e−05
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 71.72
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.07909
Std Dev 1.041
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.163e+05 / 45
p0 0.03091 ± 3.452e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 51.47 / 45
p0 −0.1677 ± 0.39
pull
Entries 46
Mean 28.14
Std Dev 0
pull1D
Entries 46
Mean −0.04932
Std Dev 1.057


asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.393e+04 / 45
p0 262.2 ± 0.2757
360
340
320
300
280
260
240
220
200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
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6135. 4
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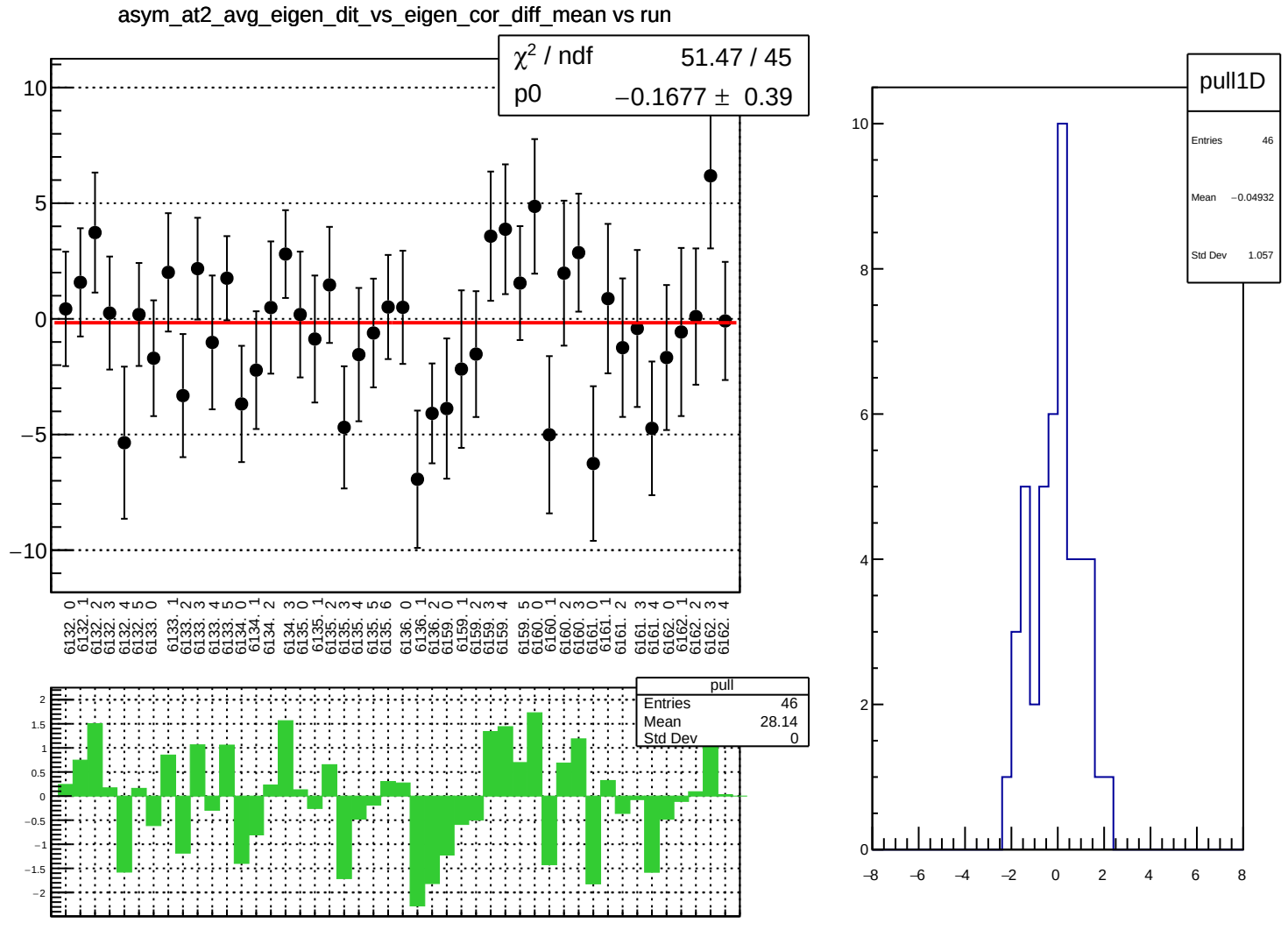
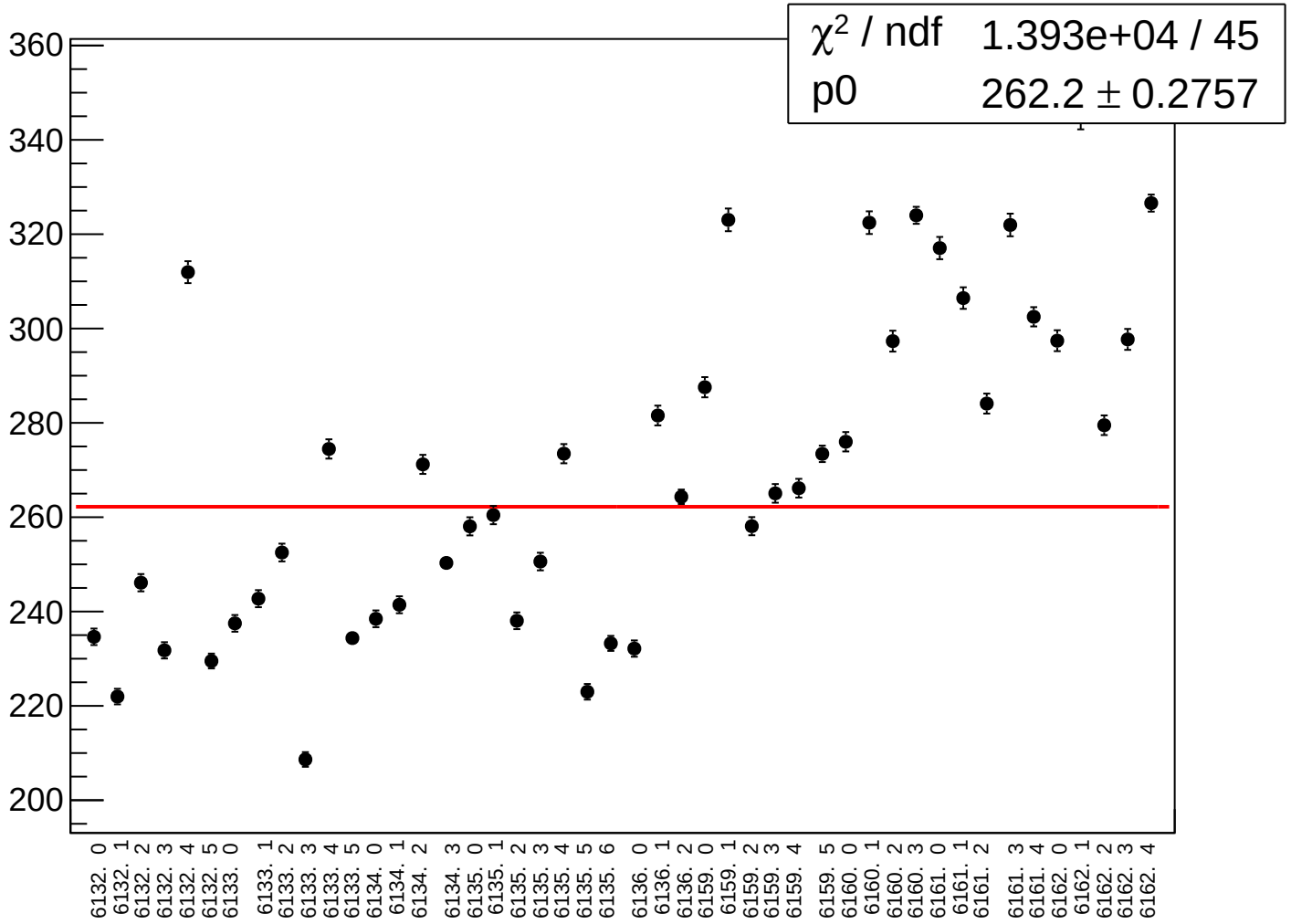
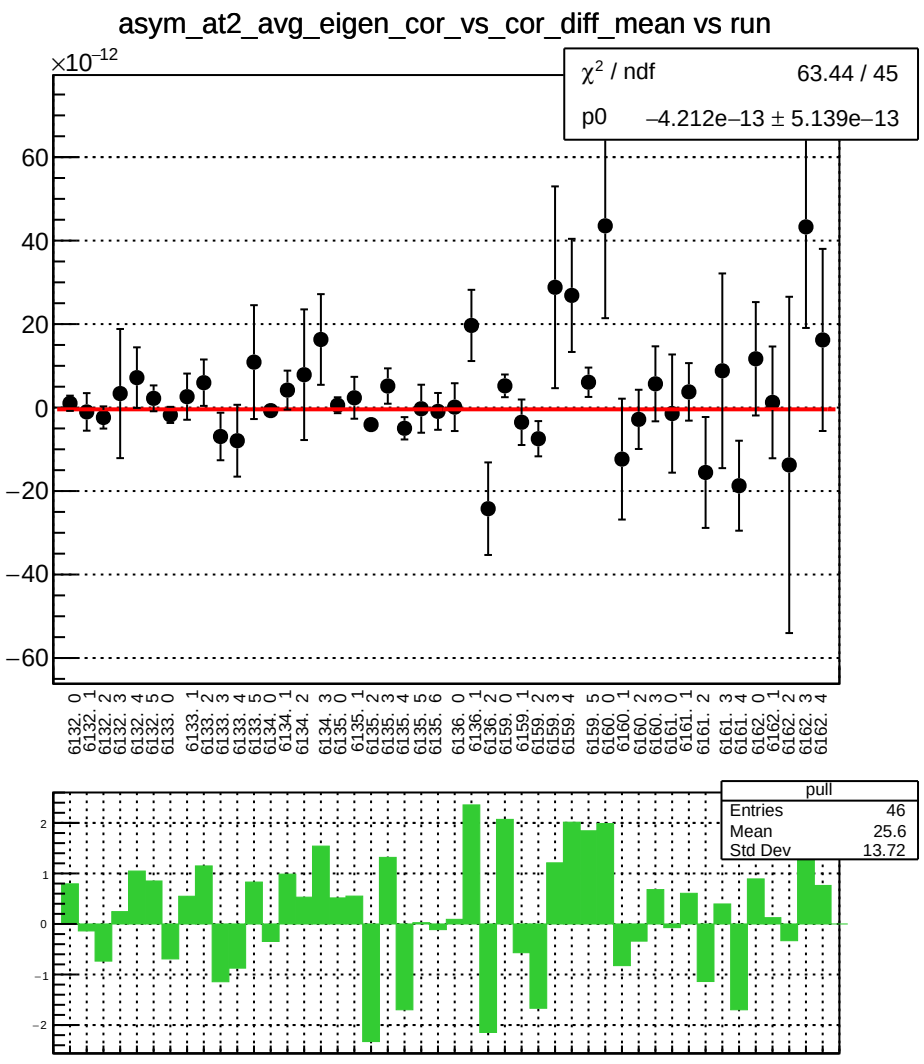
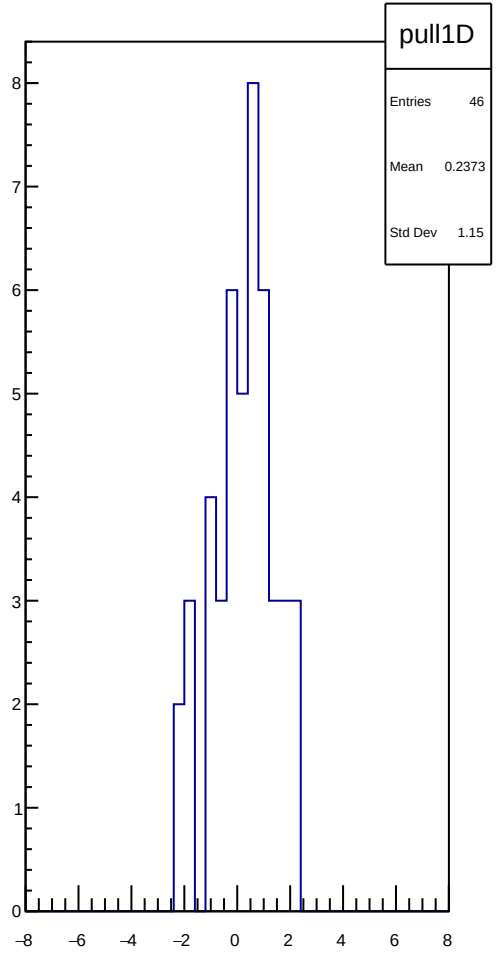
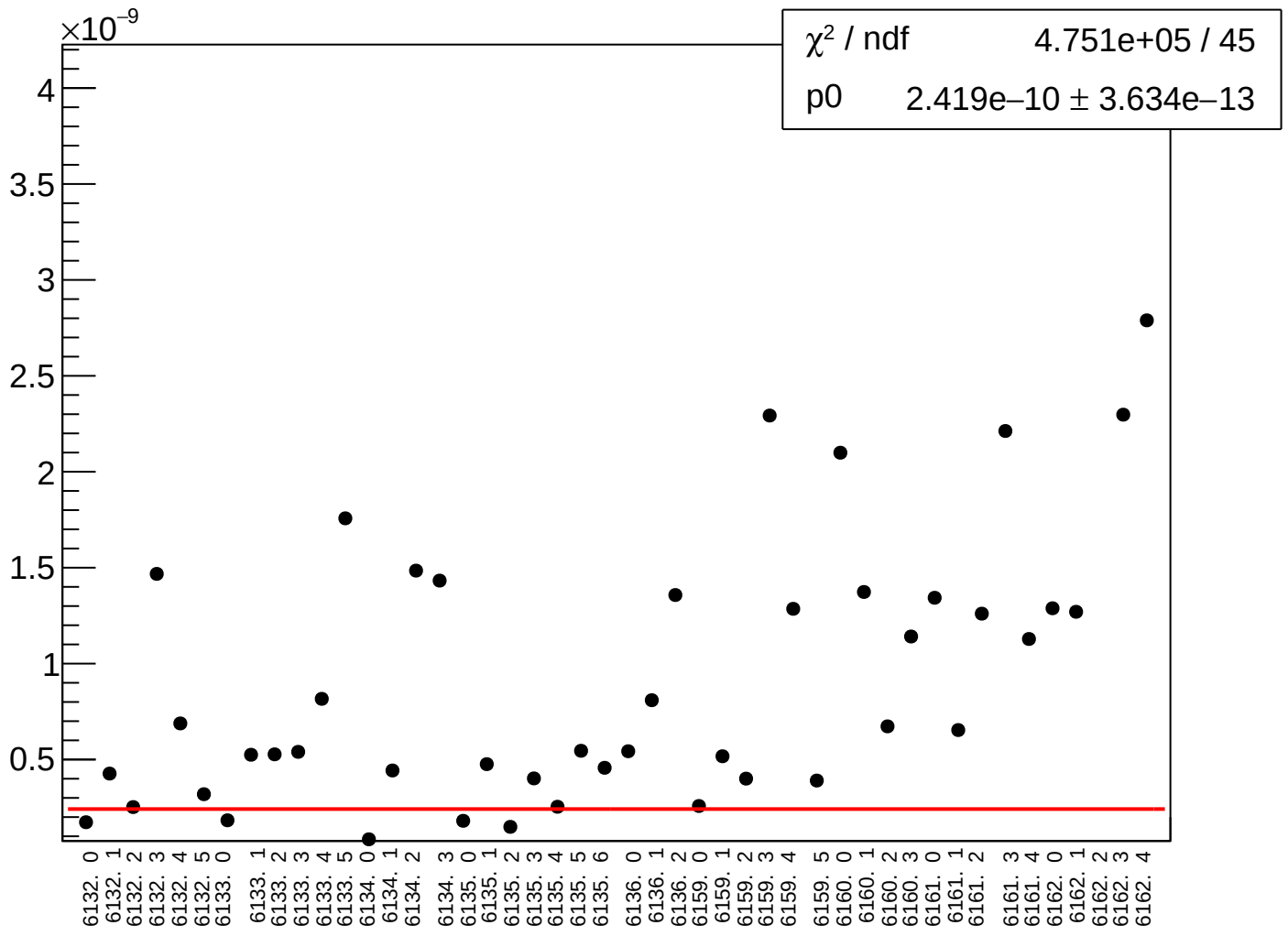
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.47 / 45
p0 −0.1677 ± 0.39
10
5
0
−5
−10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 28.14
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.04932
Std Dev 1.057
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.393e+04 / 45
p0 262.2 ± 0.2757
360
340
320
300
280
260
240
220
200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 63.44 / 45
p0 −4.212e−13 ± 5.139e−13
pull
Entries 46
Mean 25.6
Std Dev 13.72


pull1D
Entries 46
Mean 0.2373
Std Dev 1.15


asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.751e+05 / 45
p0 2.419e−10 ± 3.634e−13
4
3.5
3
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
6161. 3
6161. 4
6162. 0
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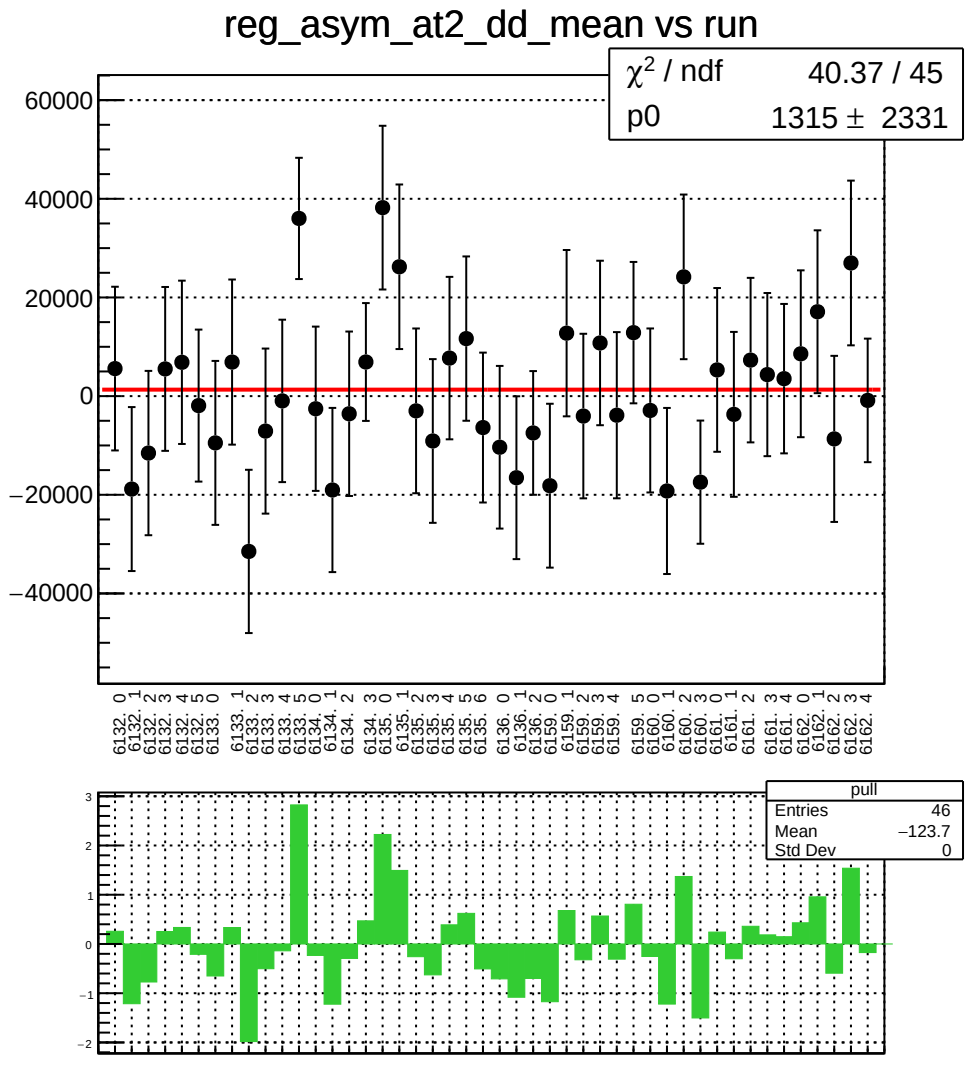
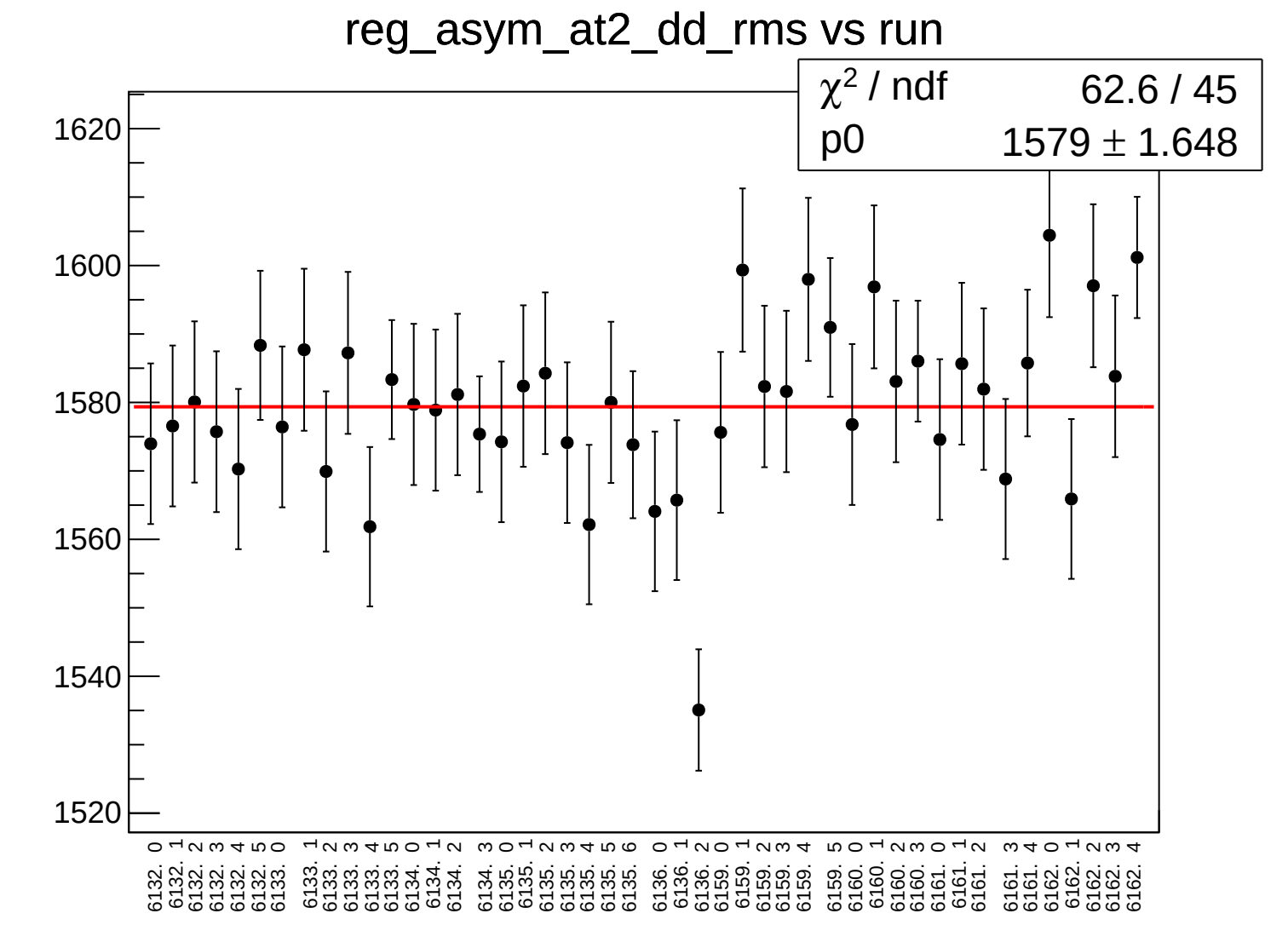
6162. 3
6162. 4


reg_asym_at2_dd_mean vs run
χ² / ndf 40.37 / 45
p0 1315 ± 2331
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −123.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.0101
Std Dev 0.9368
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at2_dd_rms vs run
χ² / ndf 62.6 / 45
p0 1579 ± 1.648
1620
1600
1580
1560
1540
1520
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 4
6133. 5
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6135. 2
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6135. 5
6135. 6
6136. 0
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6136. 2
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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6161. 4
6162. 0
6162. 1
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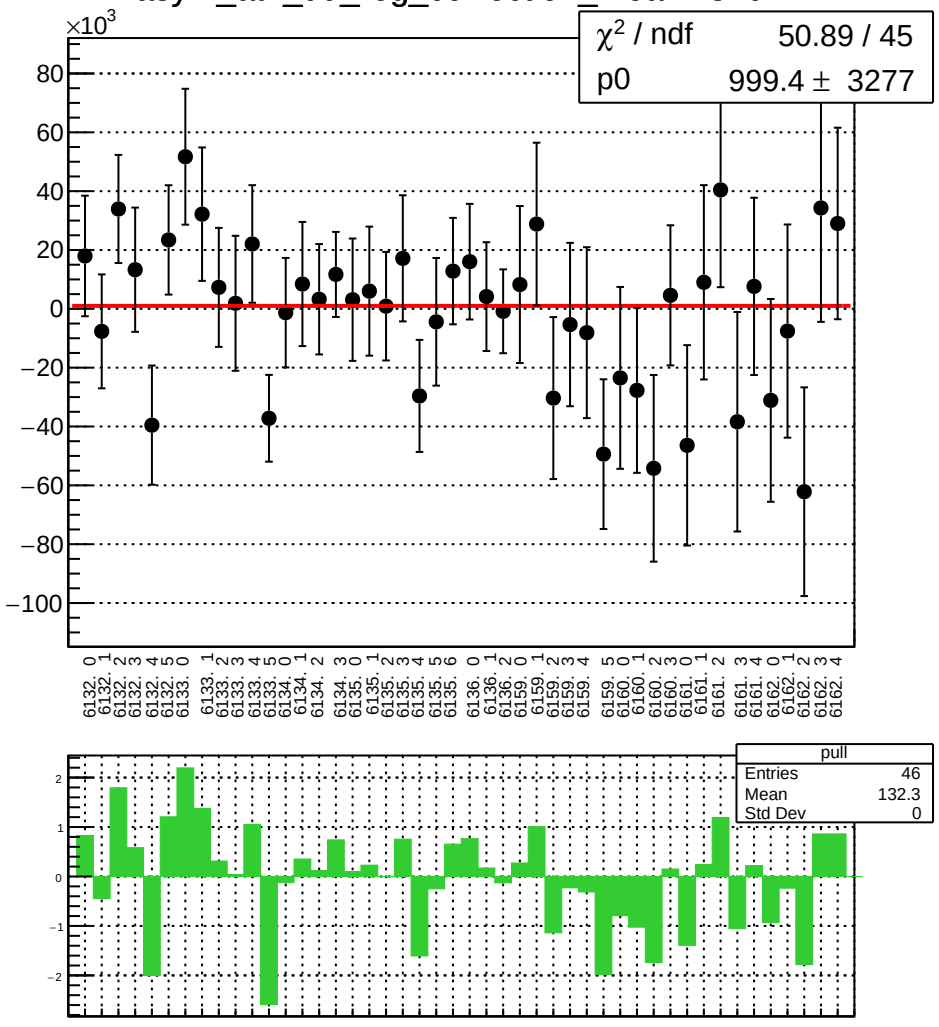
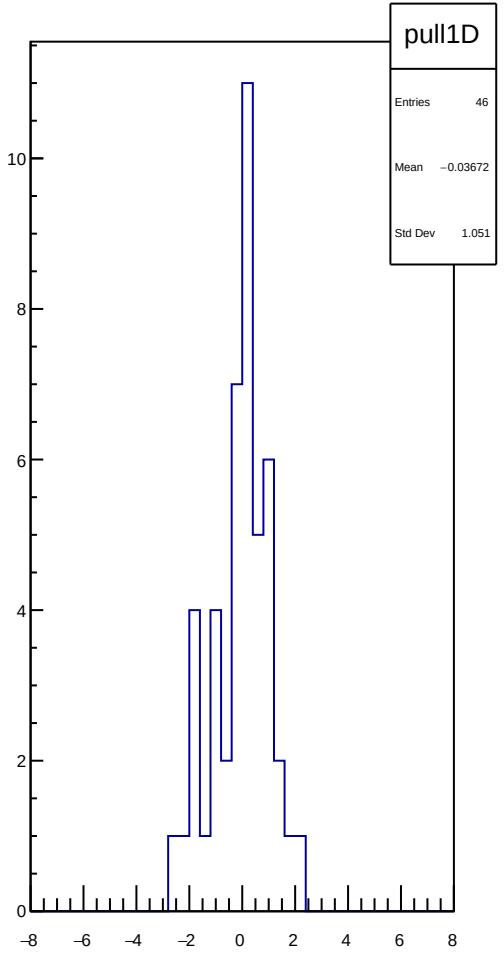
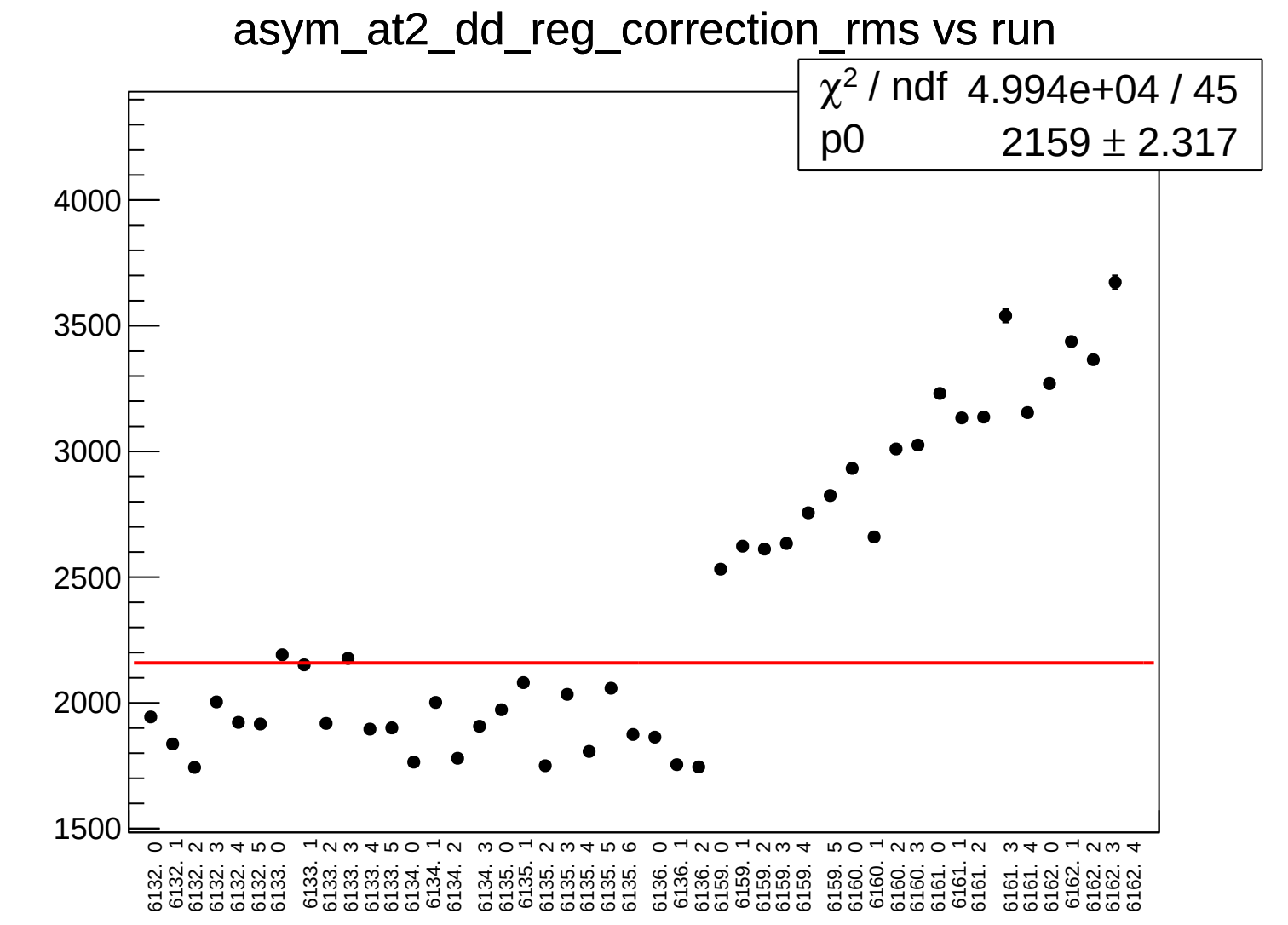
6162. 4


asym_at2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 50.89 / 45
p0 999.4 ± 3277
pull
Entries 46
Mean 132.3
Std Dev 0


pull1D
Entries 46
Mean −0.03672
Std Dev 1.051


asym_at2_dd_reg_correction_rms vs run
χ² / ndf 4.994e+04 / 45
p0 2159 ± 2.317
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
6134. 3
6135. 0
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6135. 2
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6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
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6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 4
6162. 0
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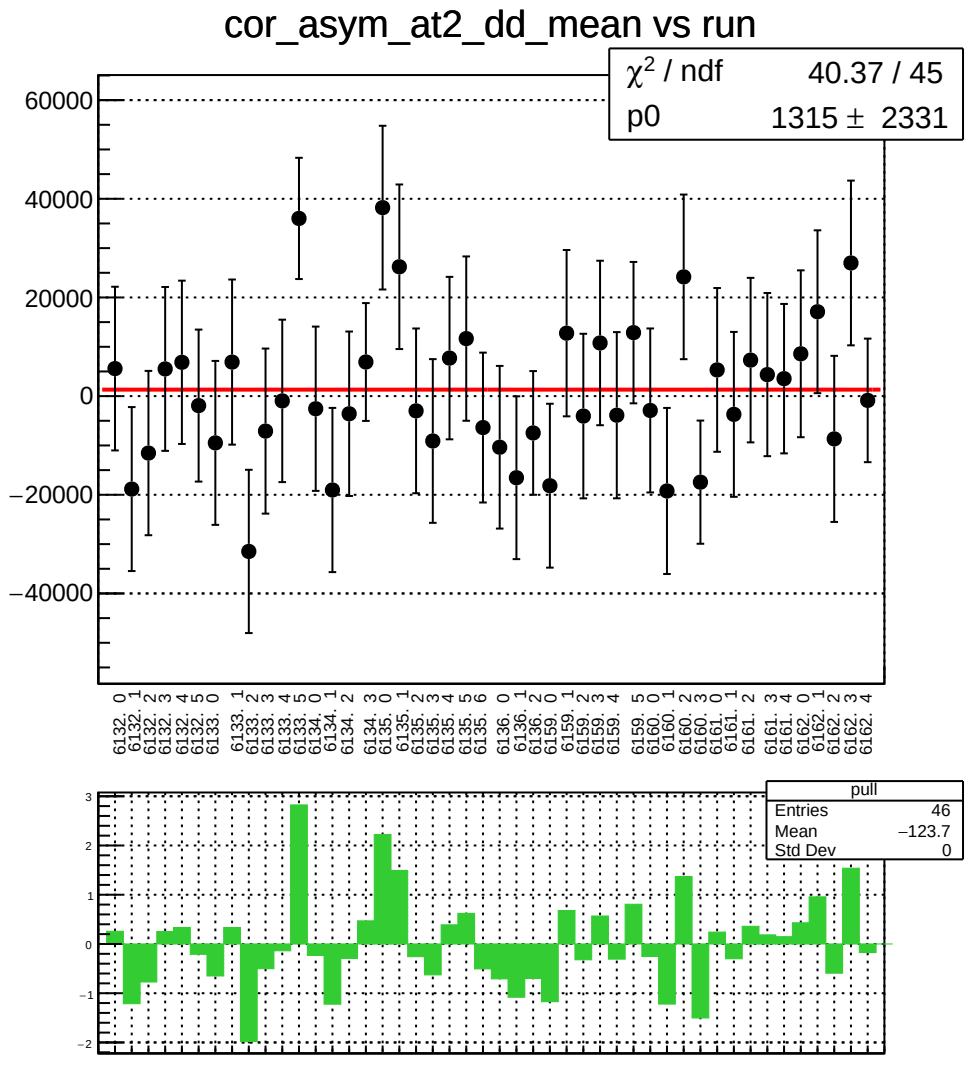
6162. 3
6162. 4


cor_asym_at2_dd_mean vs run
χ² / ndf 40.37 / 45
p0 1315 ± 2331
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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6159. 2
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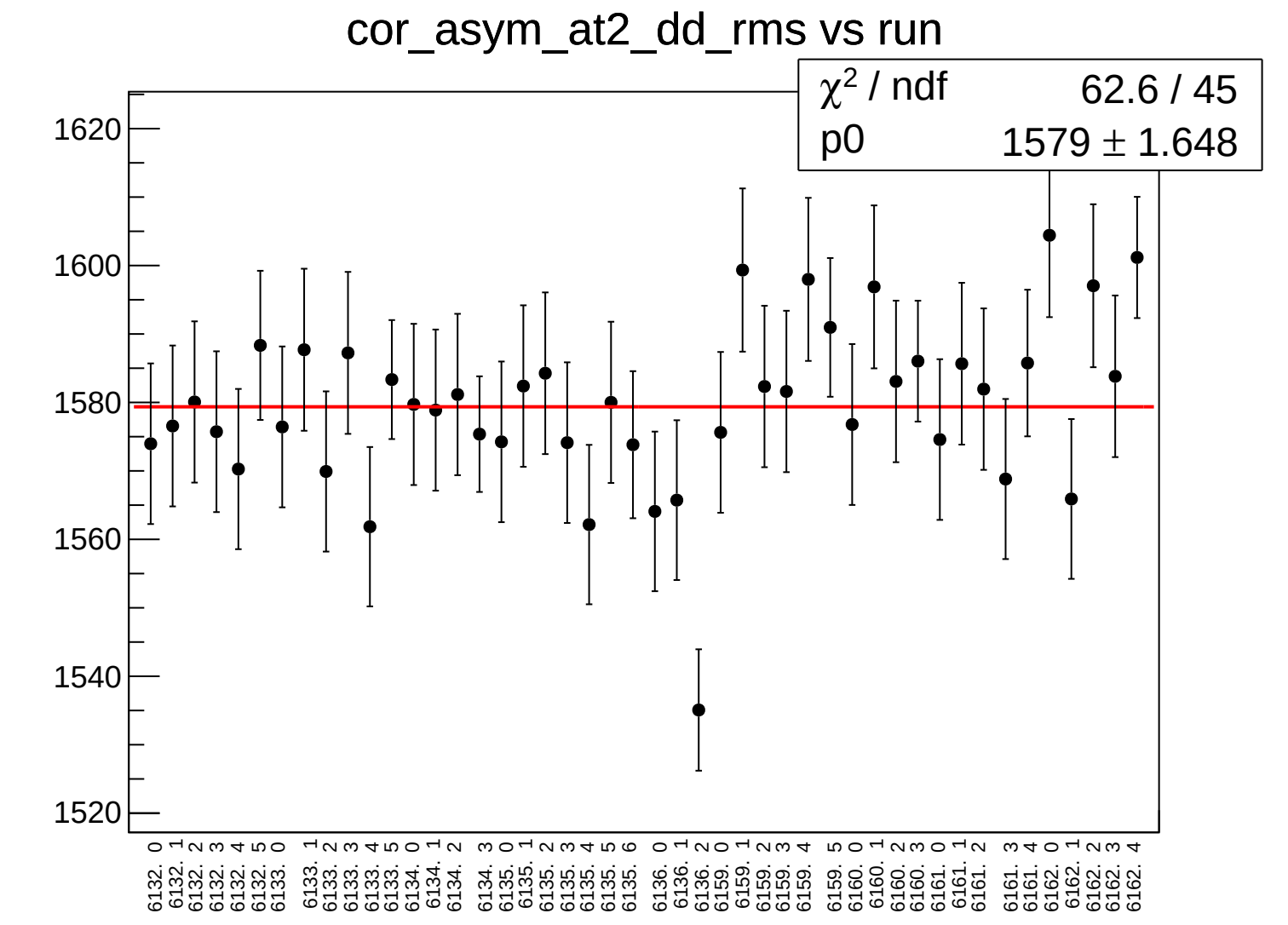
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −123.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.0101
Std Dev 0.9368
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at2_dd_rms vs run
χ² / ndf 62.6 / 45
p0 1579 ± 1.648
1620
1600
1580
1560
1540
1520
6132. 0
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6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6136. 2
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6159. 2
6159. 3
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6160. 0
6160. 1
6160. 2
6160. 3
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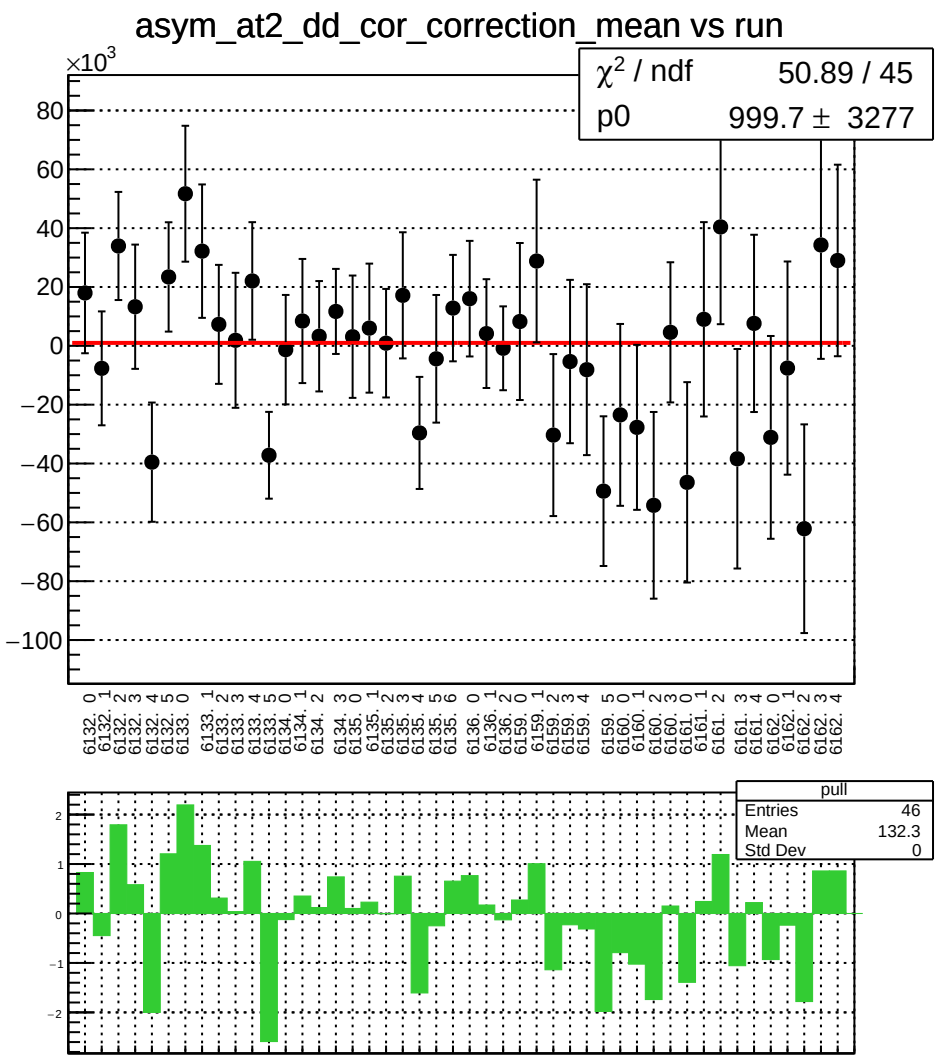
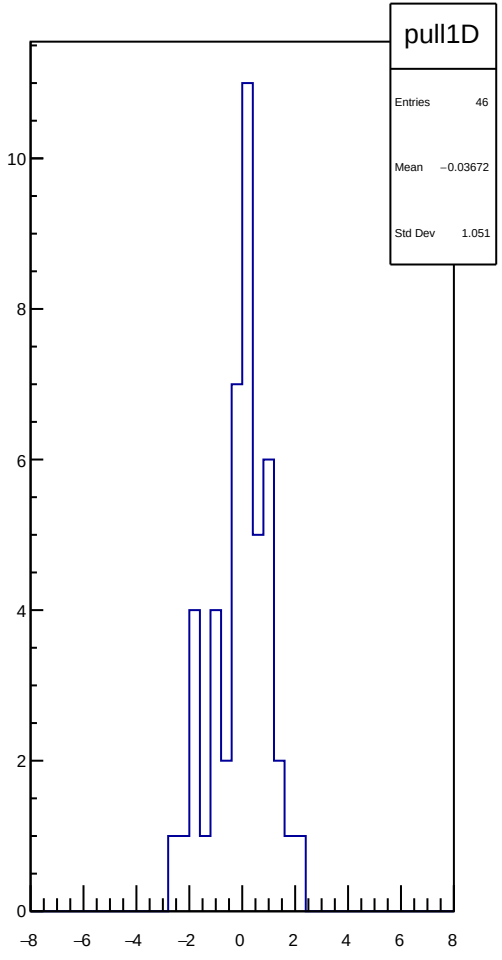
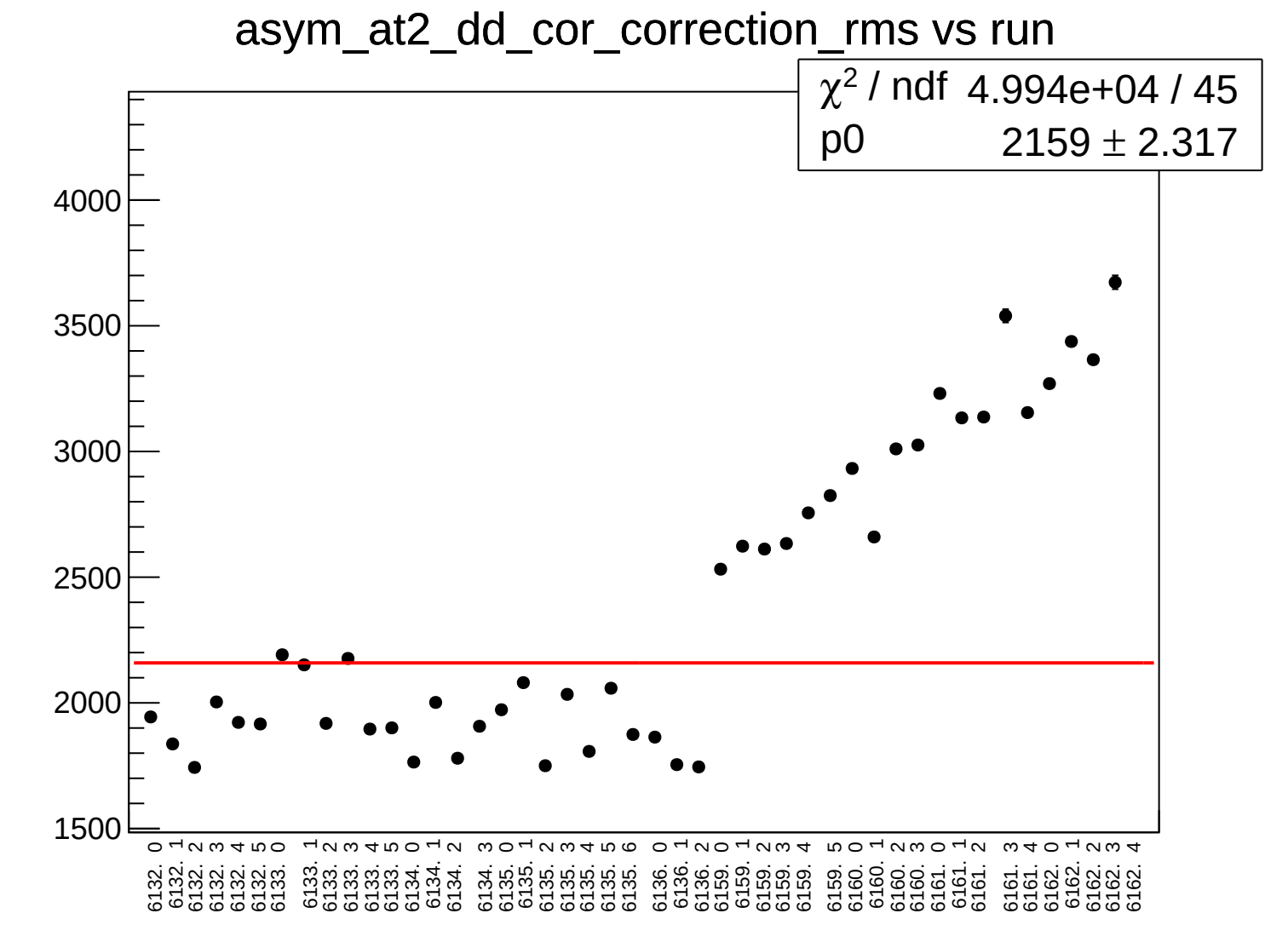
6162. 4


asym_at2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 50.89 / 45
p0 999.7 ± 3277
pull
Entries 46
Mean 132.3
Std Dev 0


pull1D
Entries 46
Mean −0.03672
Std Dev 1.051


asym_at2_dd_cor_correction_rms vs run
χ² / ndf 4.994e+04 / 45
p0 2159 ± 2.317
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6135. 6
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6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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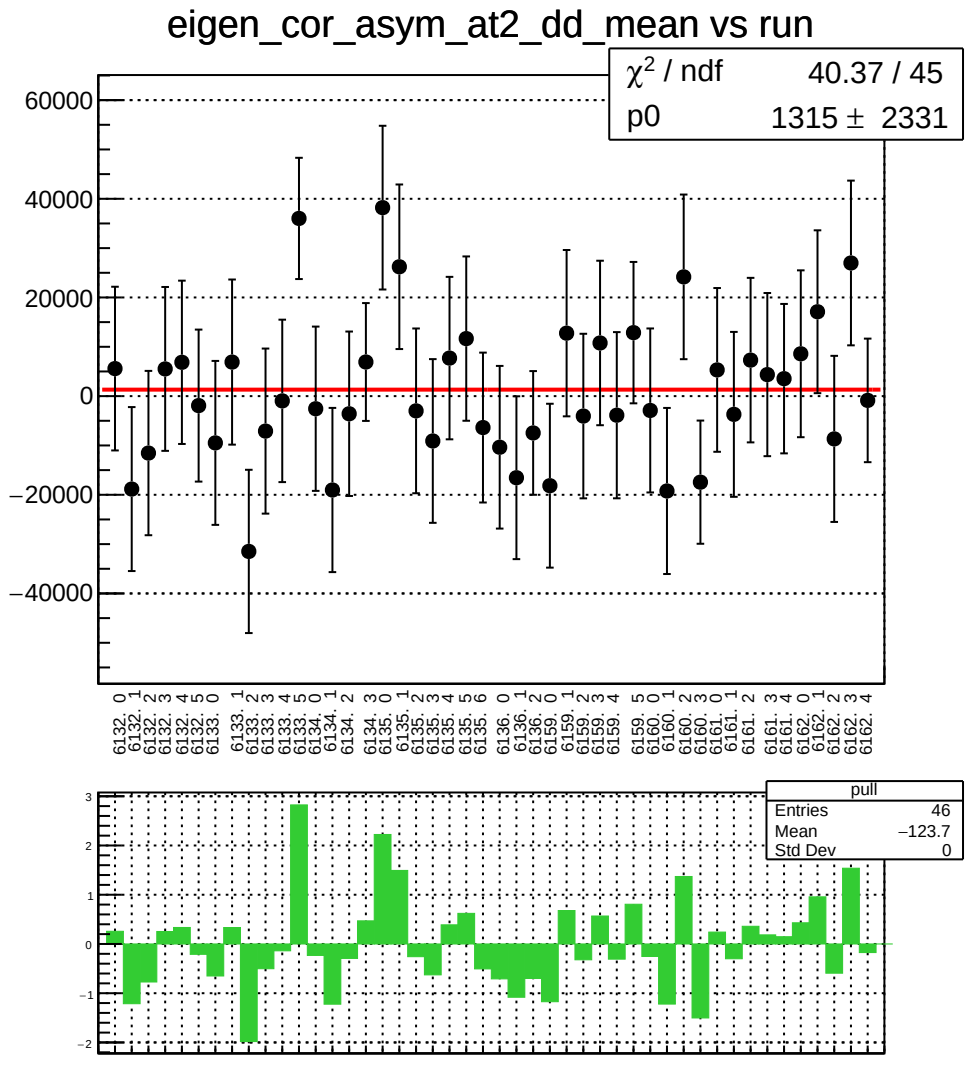
6162. 4


eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 40.37 / 45
p0 1315 ± 2331
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 2
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6134. 2
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6135. 2
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6136. 0
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6159. 5
6160. 0
6160. 1
6160. 2
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6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −123.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.0101
Std Dev 0.9368
10
8
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4
2
0
−8
−6
−4
−2
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2
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6
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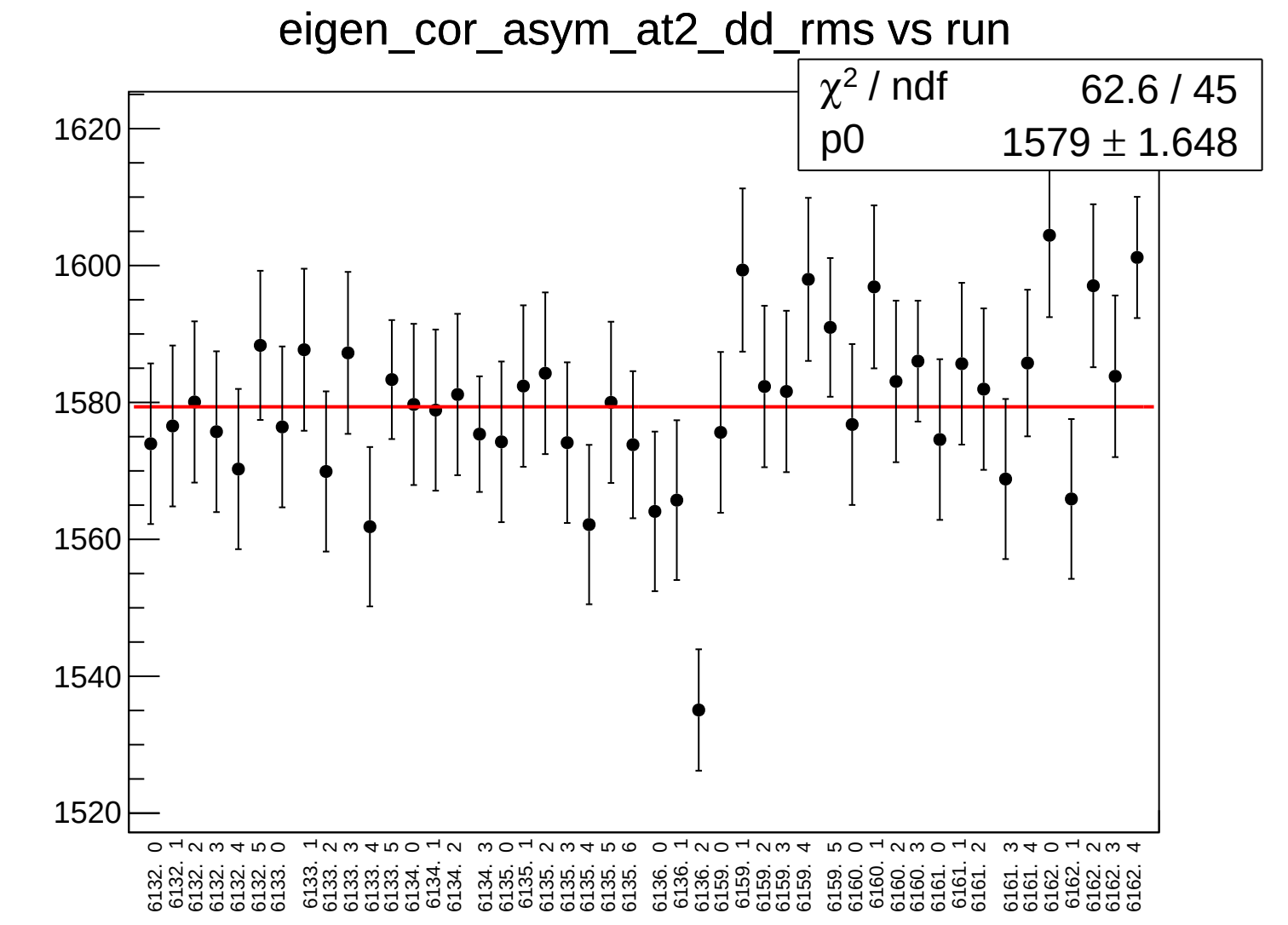
eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 62.6 / 45
p0 1579 ± 1.648
1620
1600
1580
1560
1540
1520
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
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6134. 2
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6135. 1
6135. 2
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6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
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6159. 2
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6160. 3
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6161. 2
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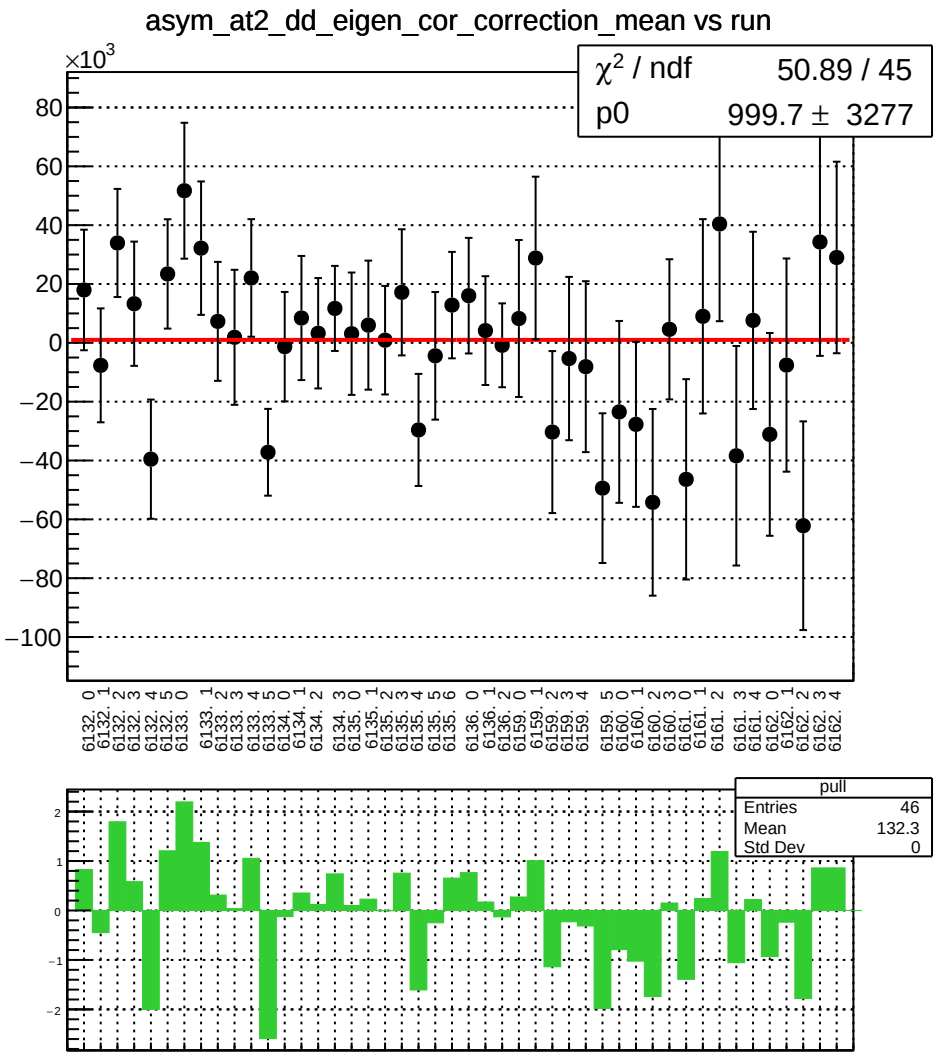
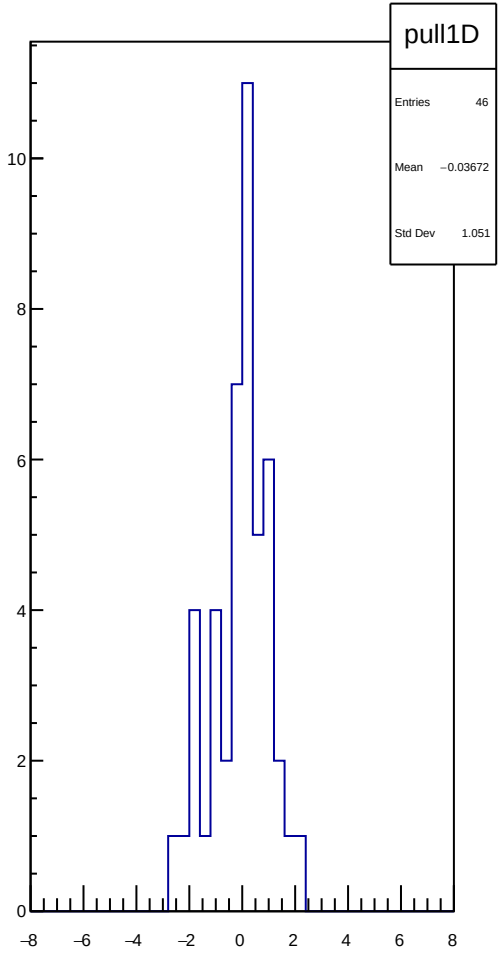
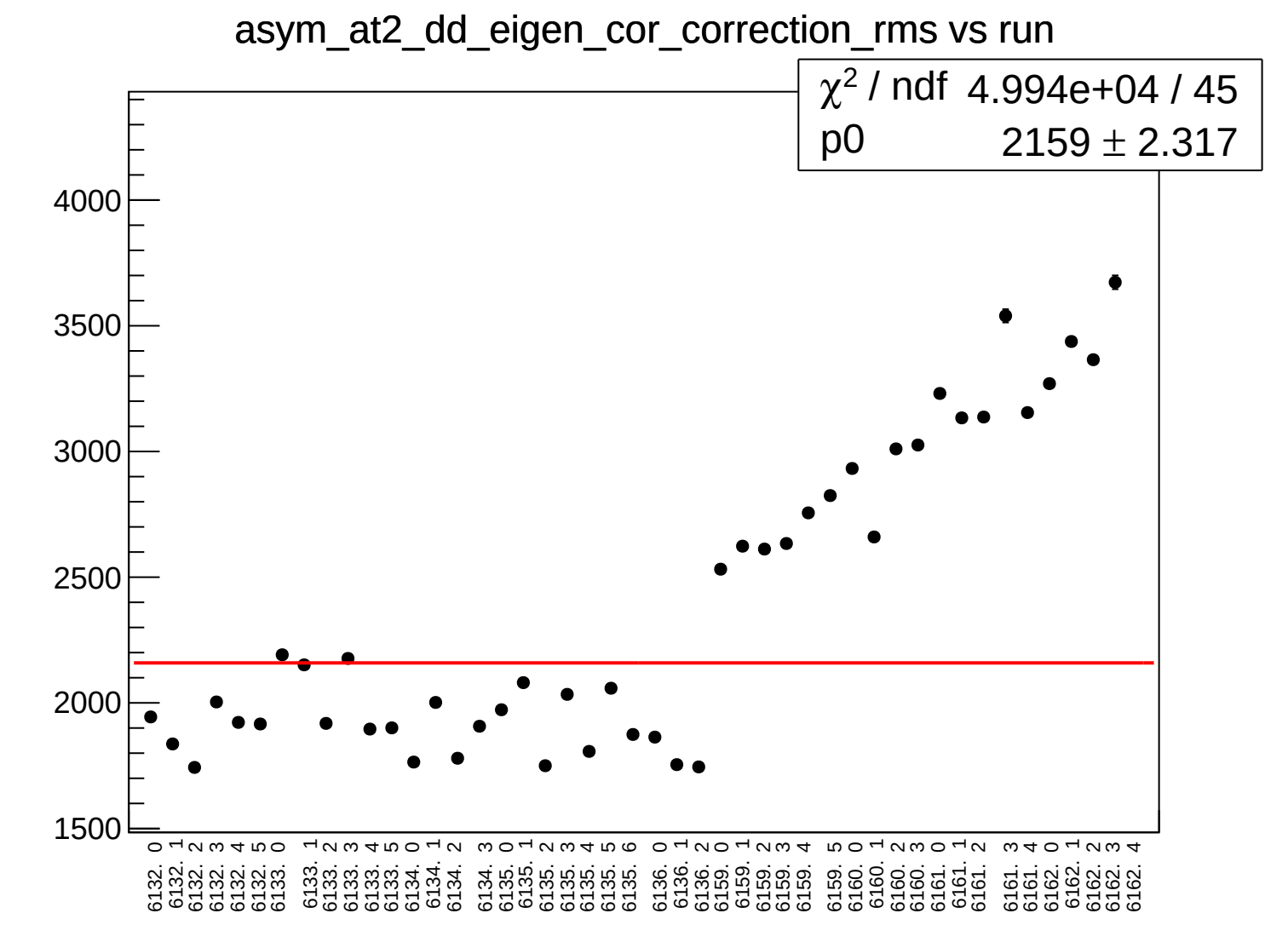
6162. 4


asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 50.89 / 45
p0 999.7 ± 3277
pull
Entries 46
Mean 132.3
Std Dev 0


pull1D
Entries 46
Mean −0.03672
Std Dev 1.051


asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.994e+04 / 45
p0 2159 ± 2.317
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
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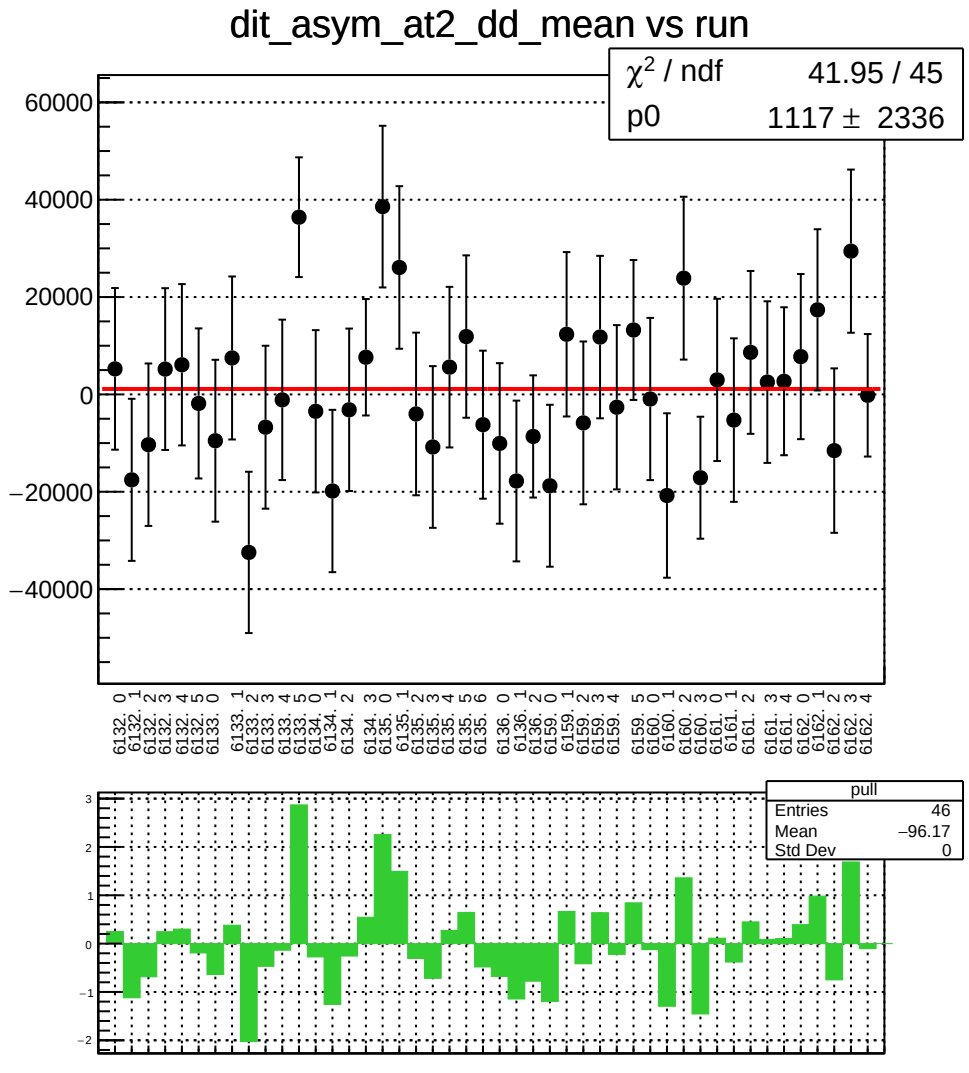
dit_asym_at2_dd_mean vs run
χ² / ndf 41.95 / 45
p0 1117 ± 2336
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
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6136. 0
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6136. 2
6159. 0
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6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −96.17
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.01154
Std Dev 0.9549
9
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7
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5
4
3
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−4
−2
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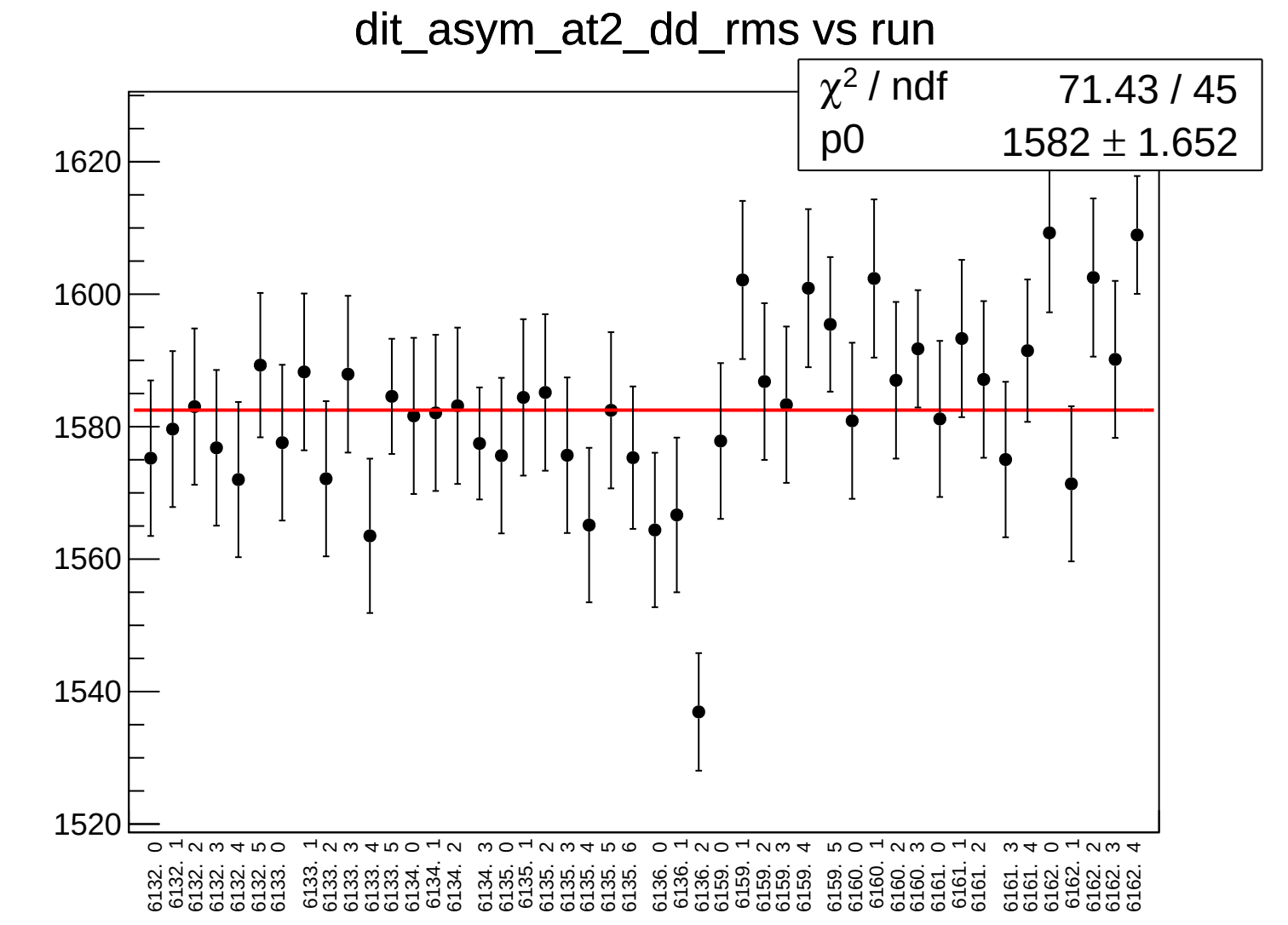
2
4
6
8


dit_asym_at2_dd_rms vs run
χ² / ndf 71.43 / 45
p0 1582 ± 1.652
1620
1600
1580
1560
1540
1520
6132. 0
6132. 1
6132. 2
6132. 3
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6135. 5
6135. 6
6136. 0
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6160. 1
6160. 2
6160. 3
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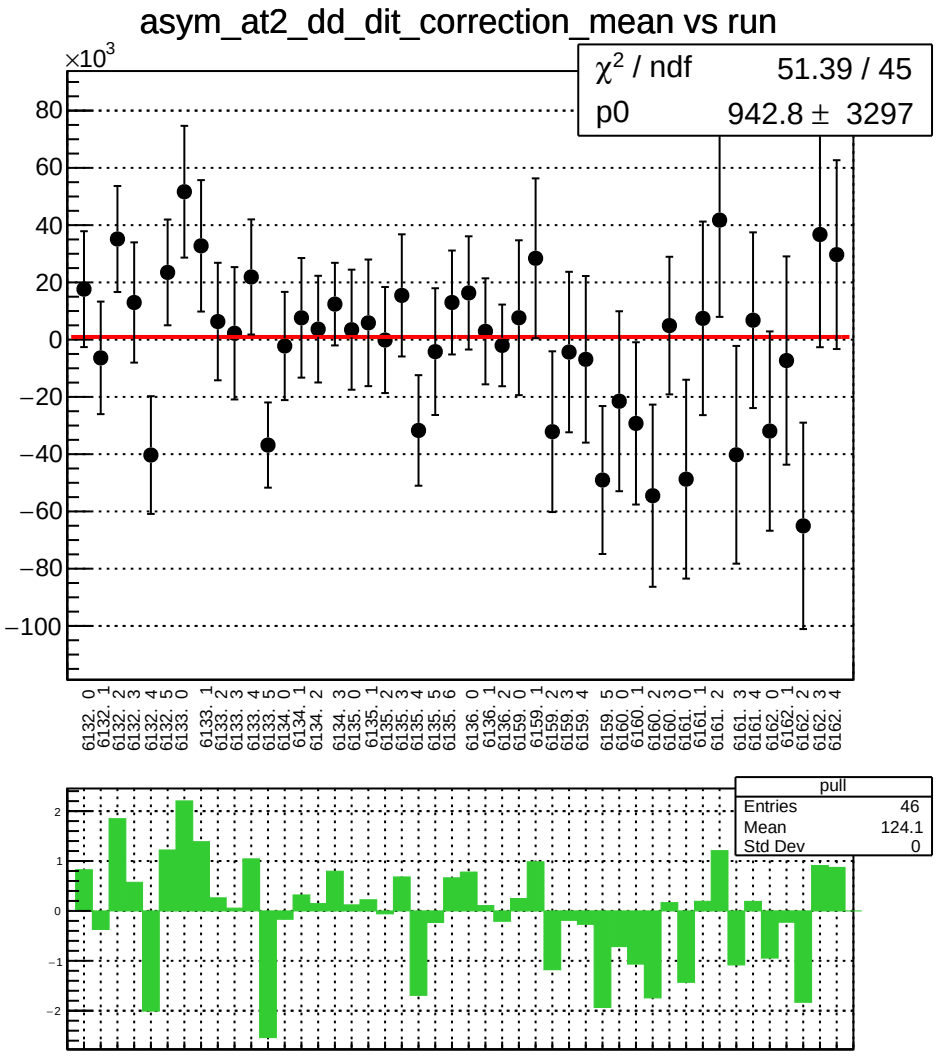
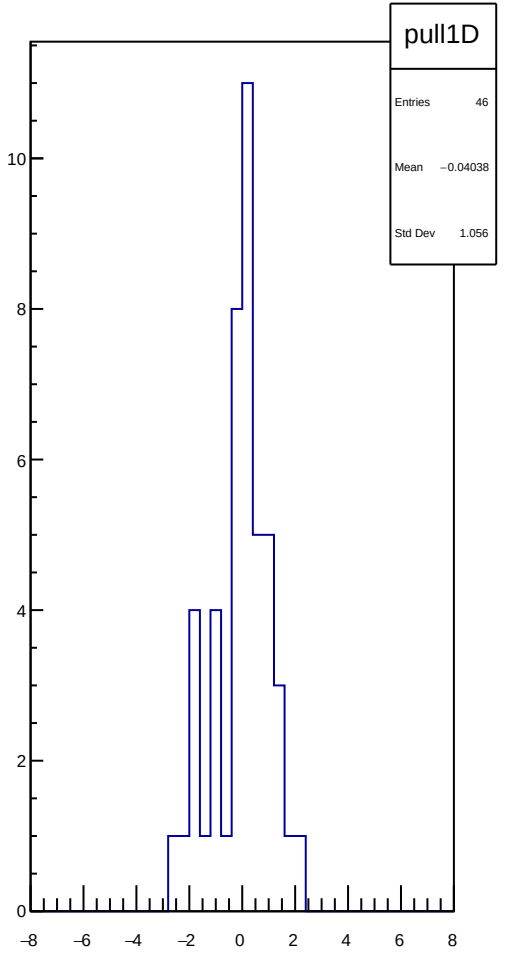
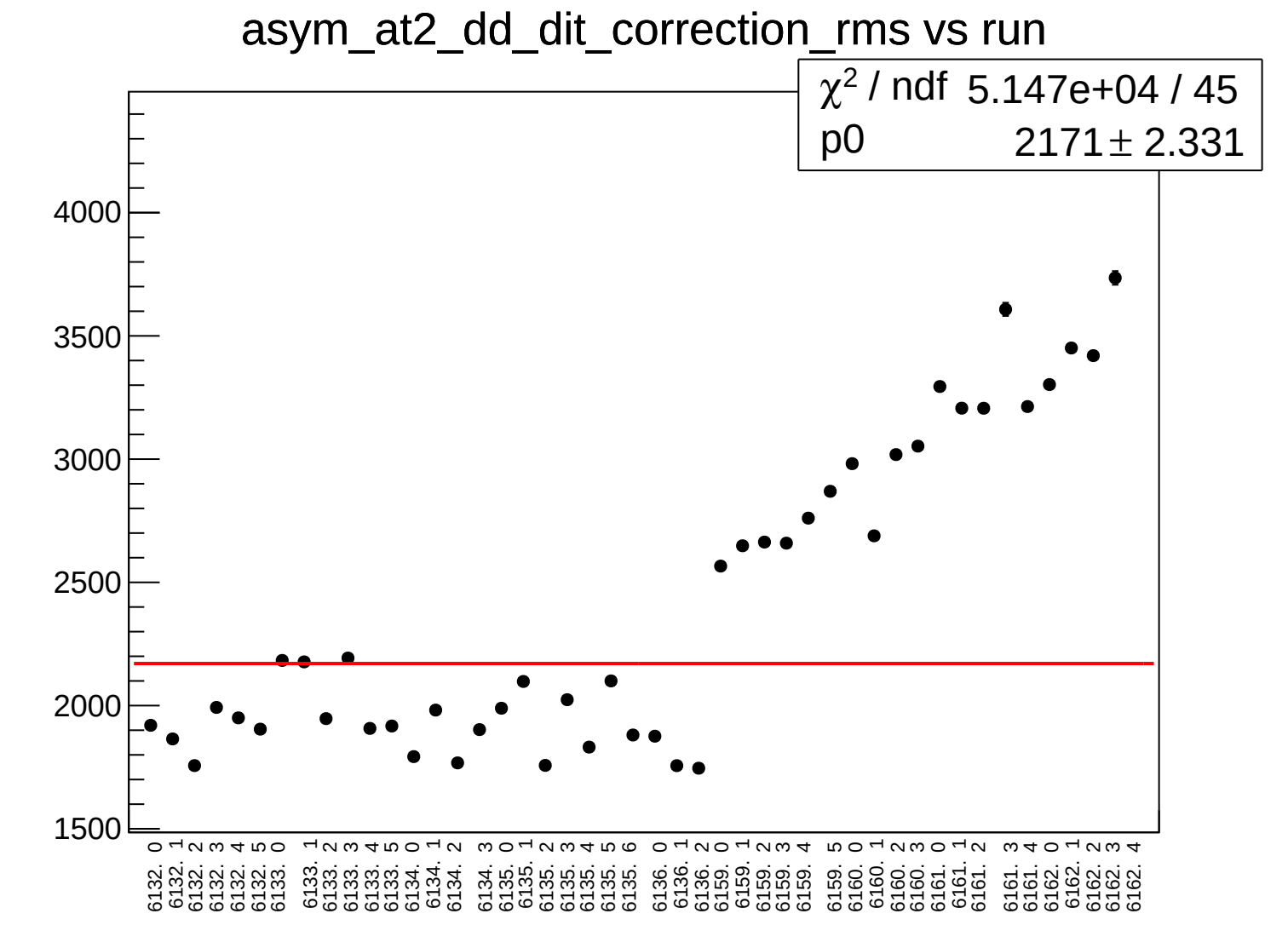
6162. 4


asym_at2_dd_dit_correction_mean vs run
χ² / ndf 51.39 / 45
p0 942.8 ± 3297
×10³
pull
Entries 46
Mean 124.1
Std Dev 0


pull1D
Entries 46
Mean −0.04038
Std Dev 1.056


asym_at2_dd_dit_correction_rms vs run
χ² / ndf 5.147e+04 / 45
p0 2171 ± 2.331
4000
3500
3000
2500
2000
1500
6132. 0
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6161. 2
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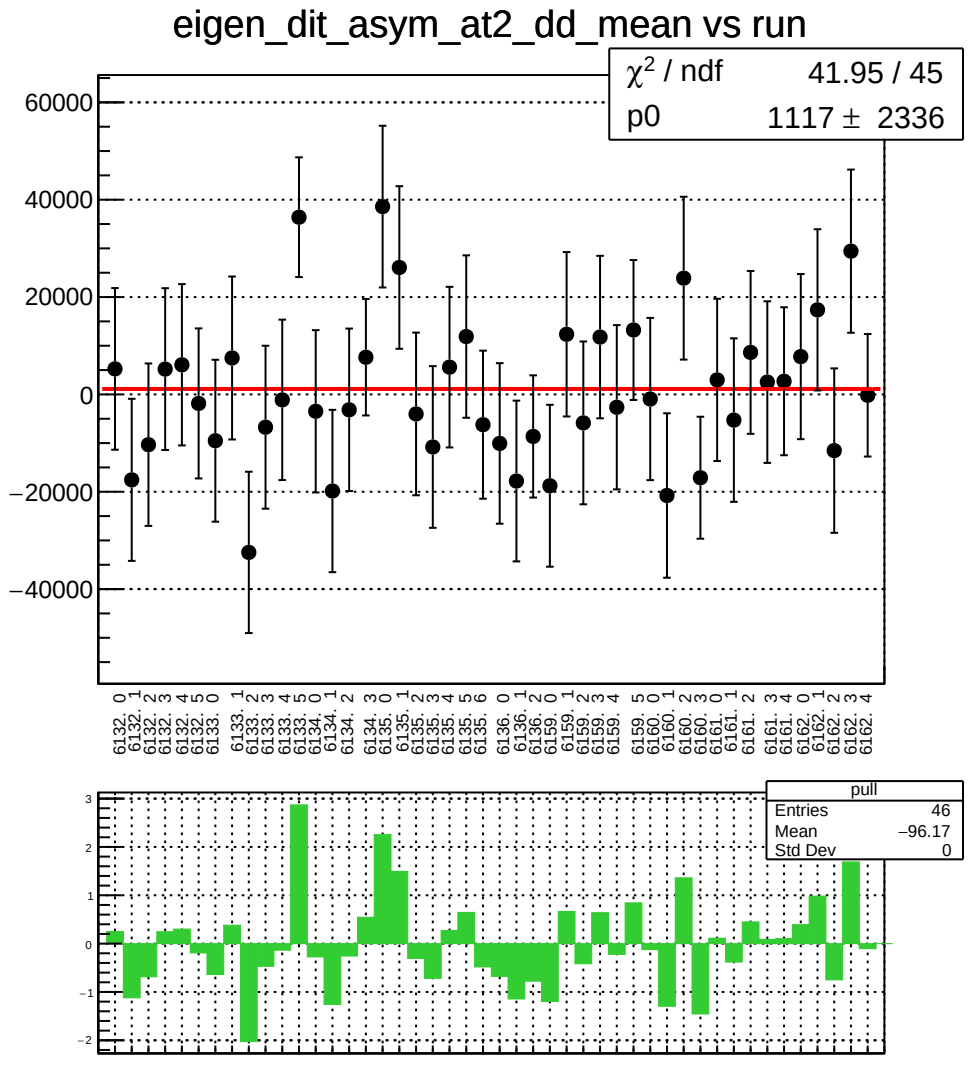
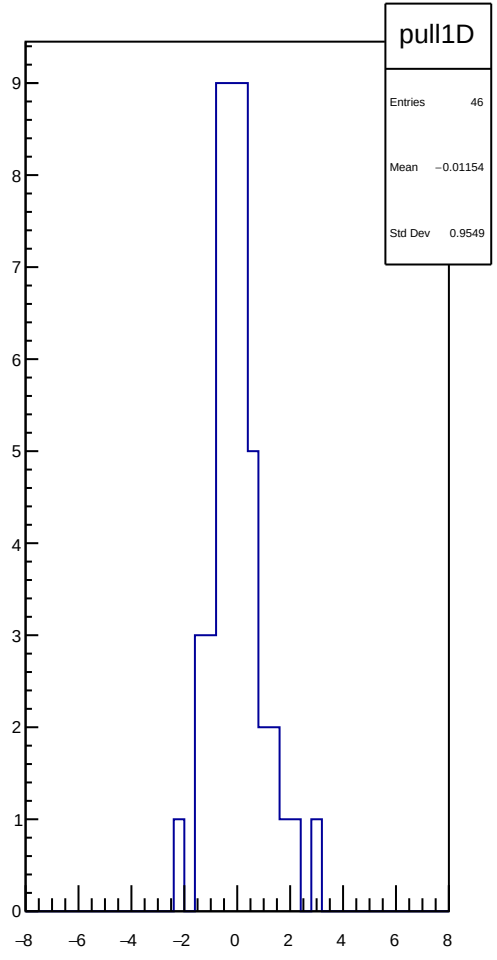
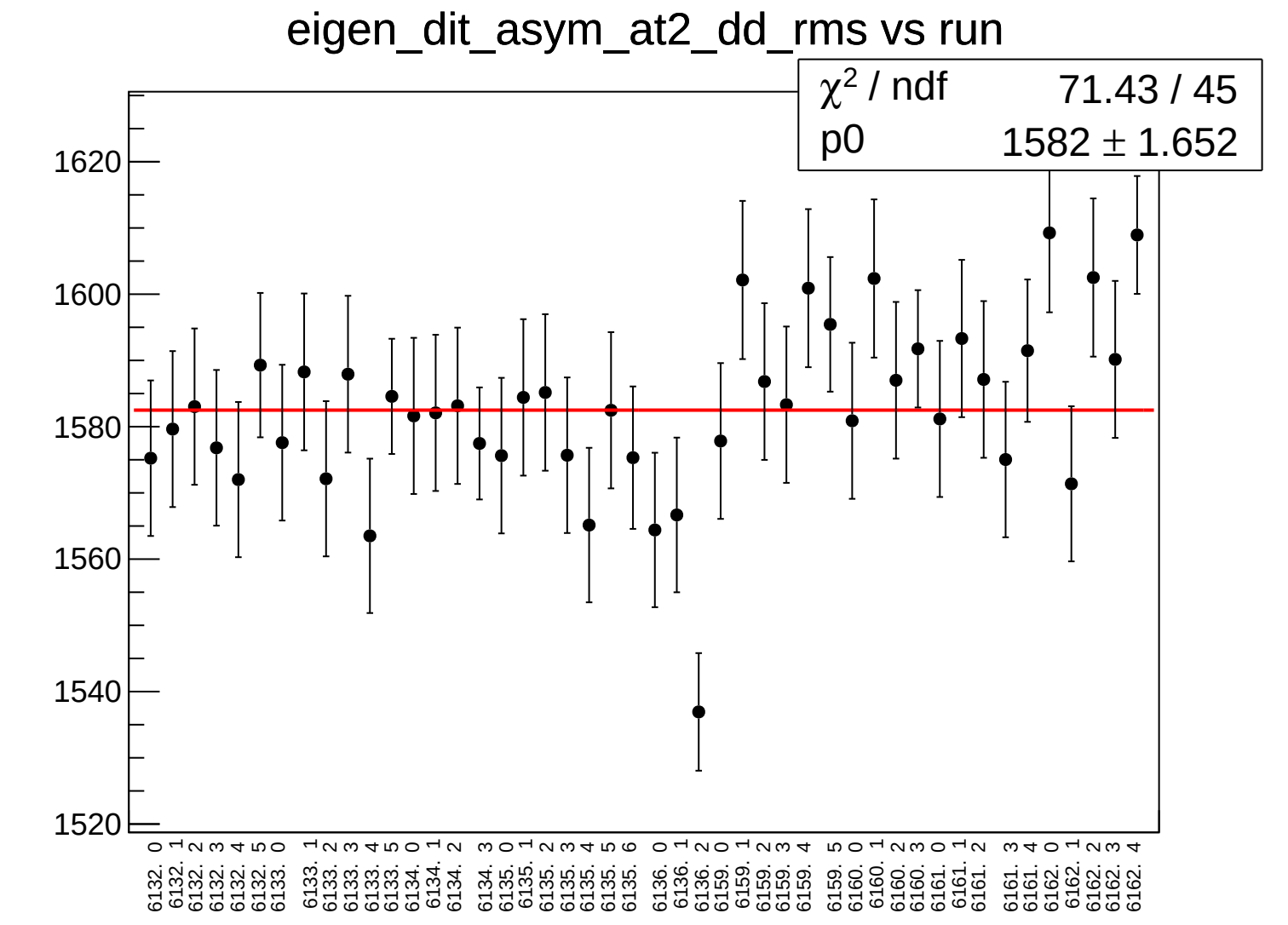
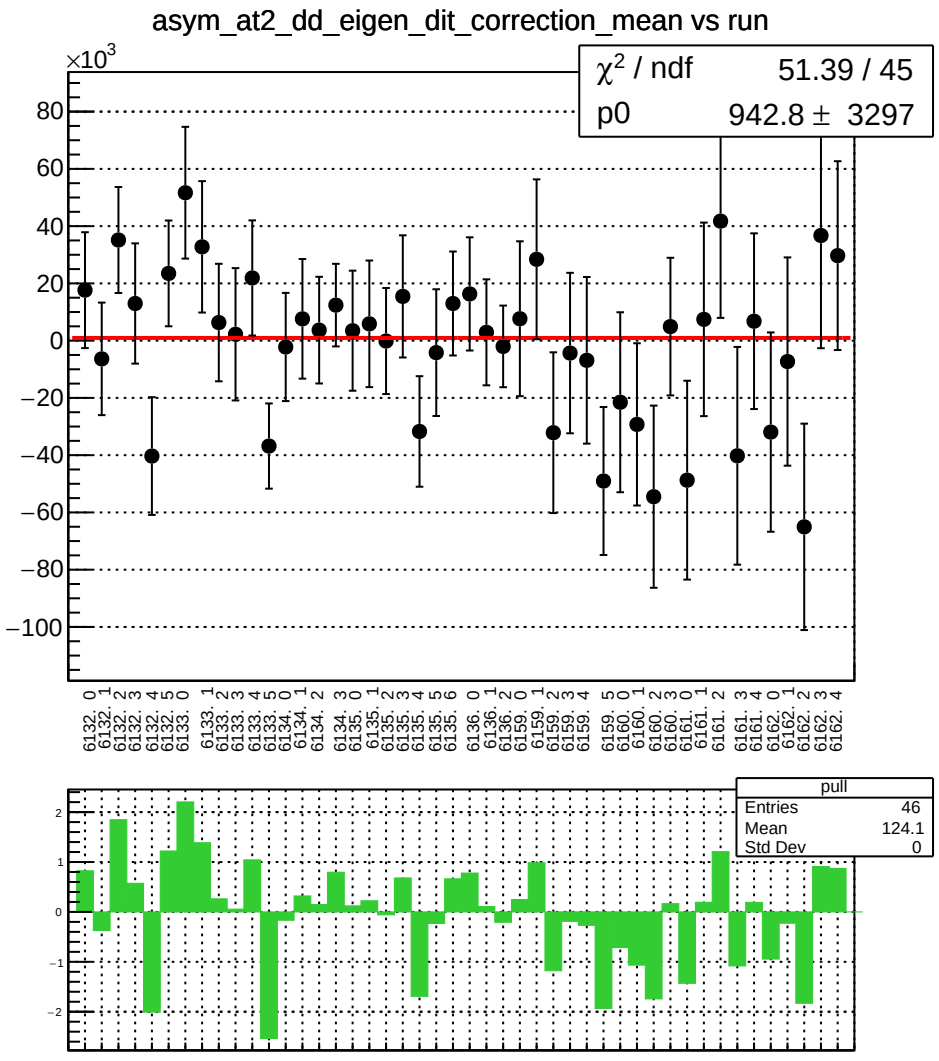
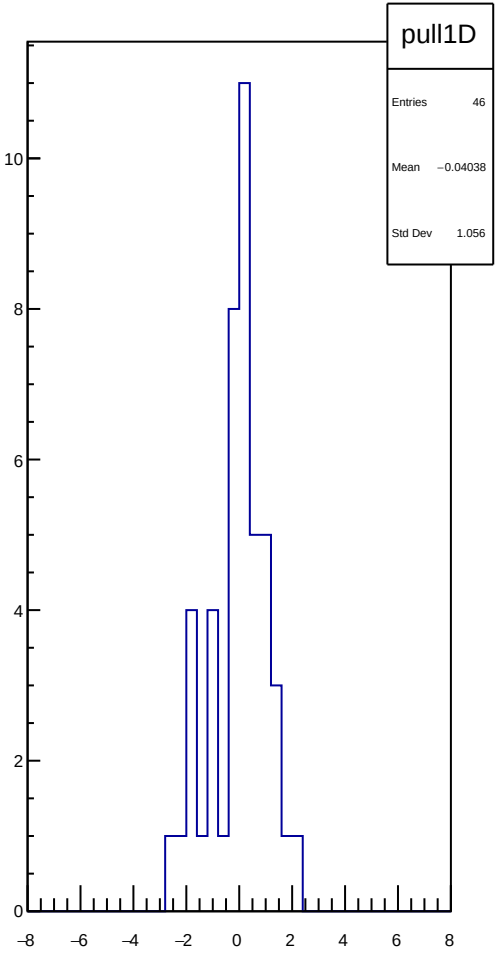
6162. 2
6162. 3
6162. 4

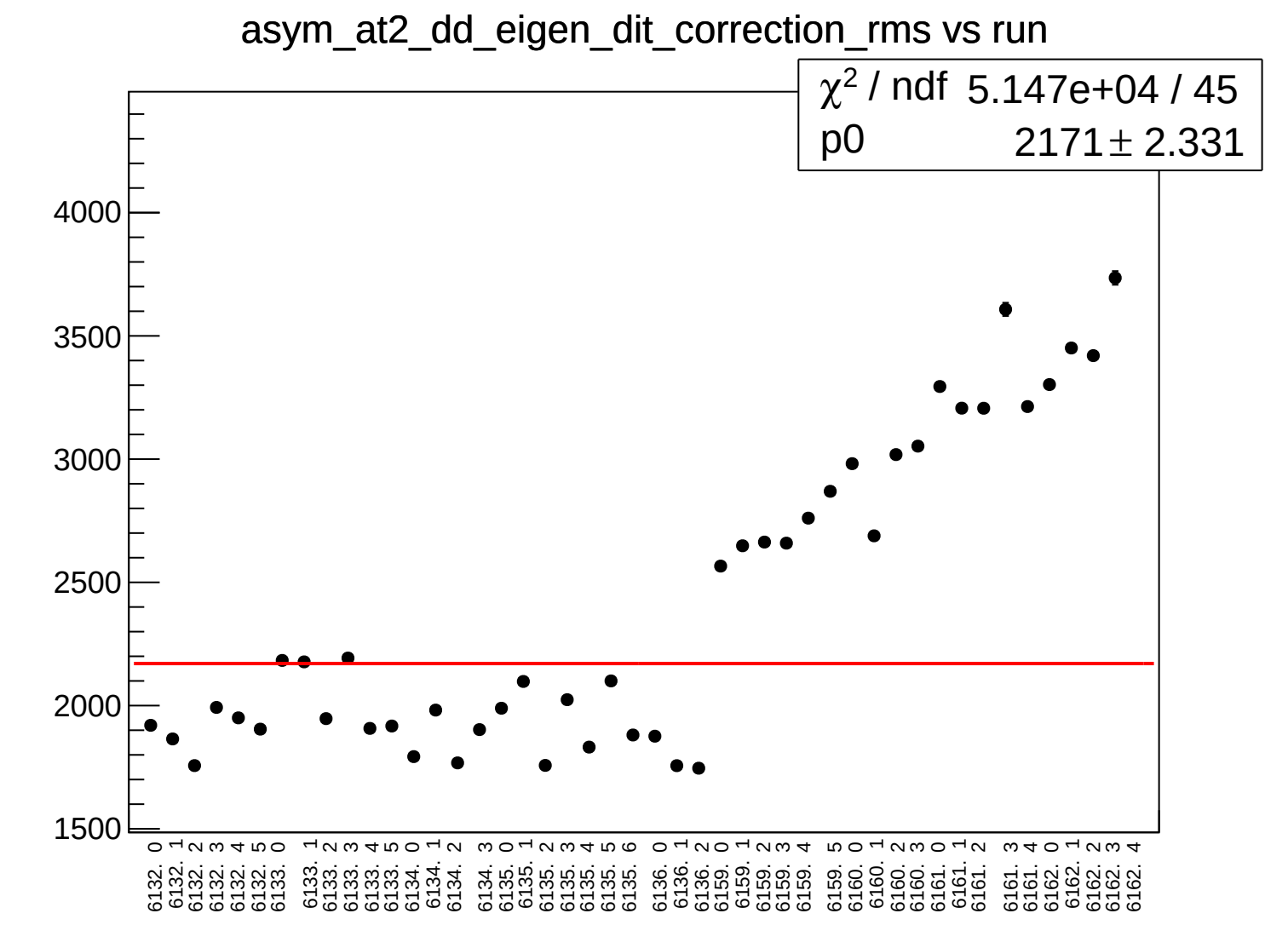

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 41.95 / 45
p0 1117 ± 2336
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −96.17
Std Dev 0
3
2
1
0
−1
−2

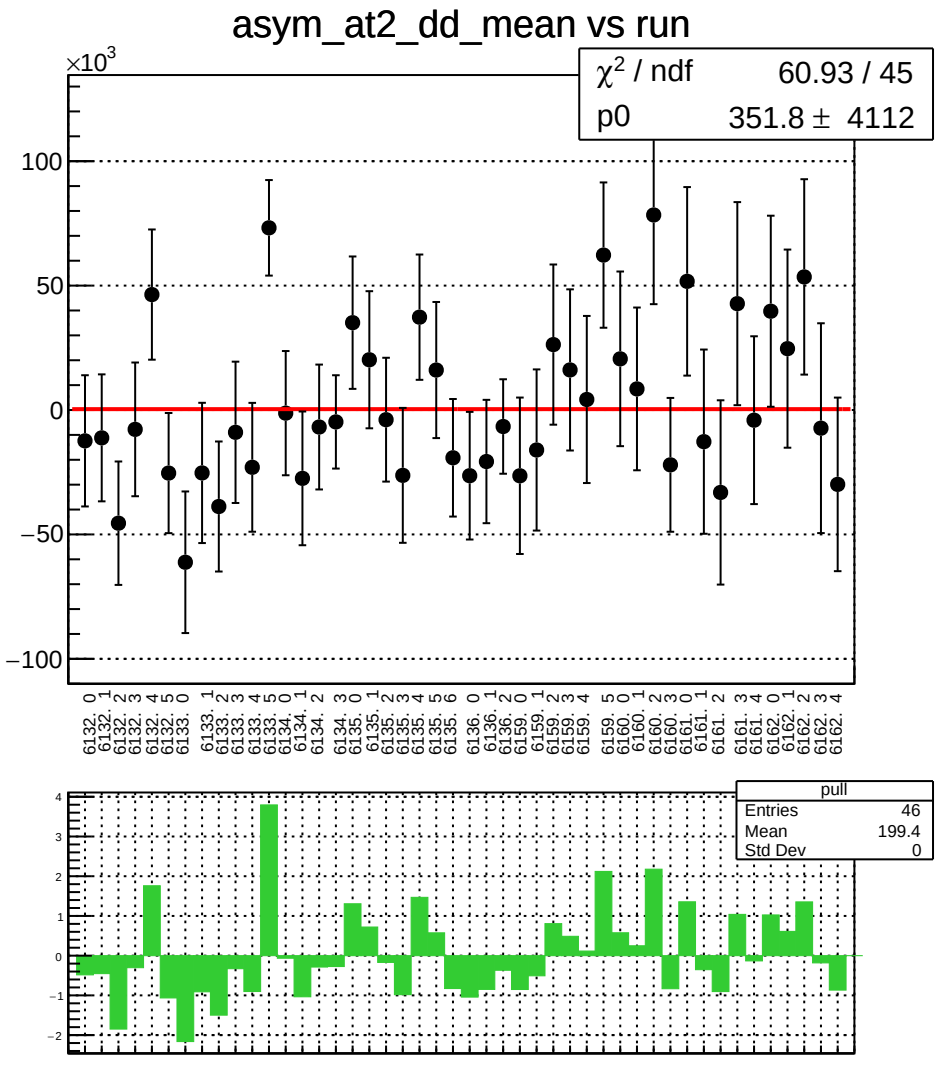

pull1D
Entries 46
Mean −0.01154
Std Dev 0.9549
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

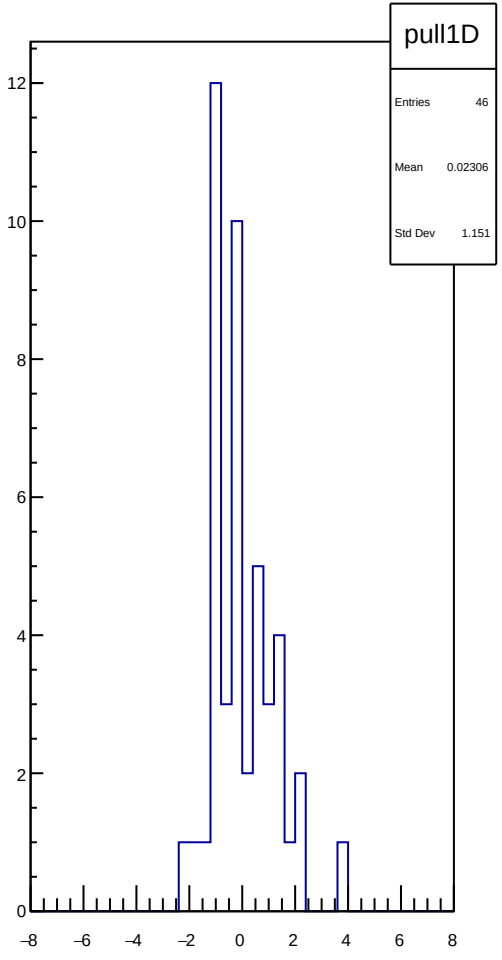

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 71.43 / 45
p0 1582 ± 1.652
1620
1600
1580
1560
1540
1520
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

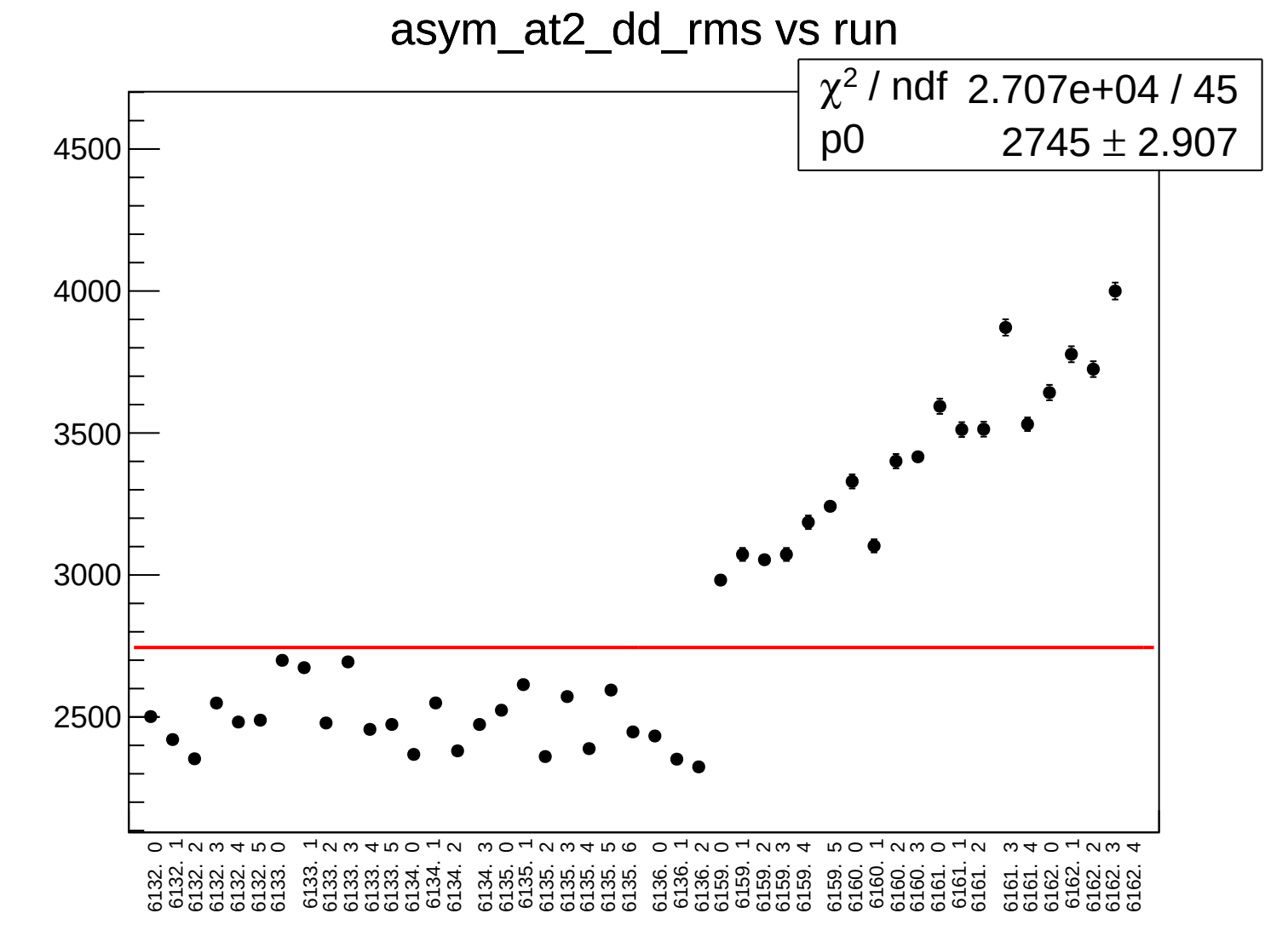

asym_at2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 51.39 / 45
p0 942.8 ± 3297
pull
Entries 46
Mean 124.1
Std Dev 0

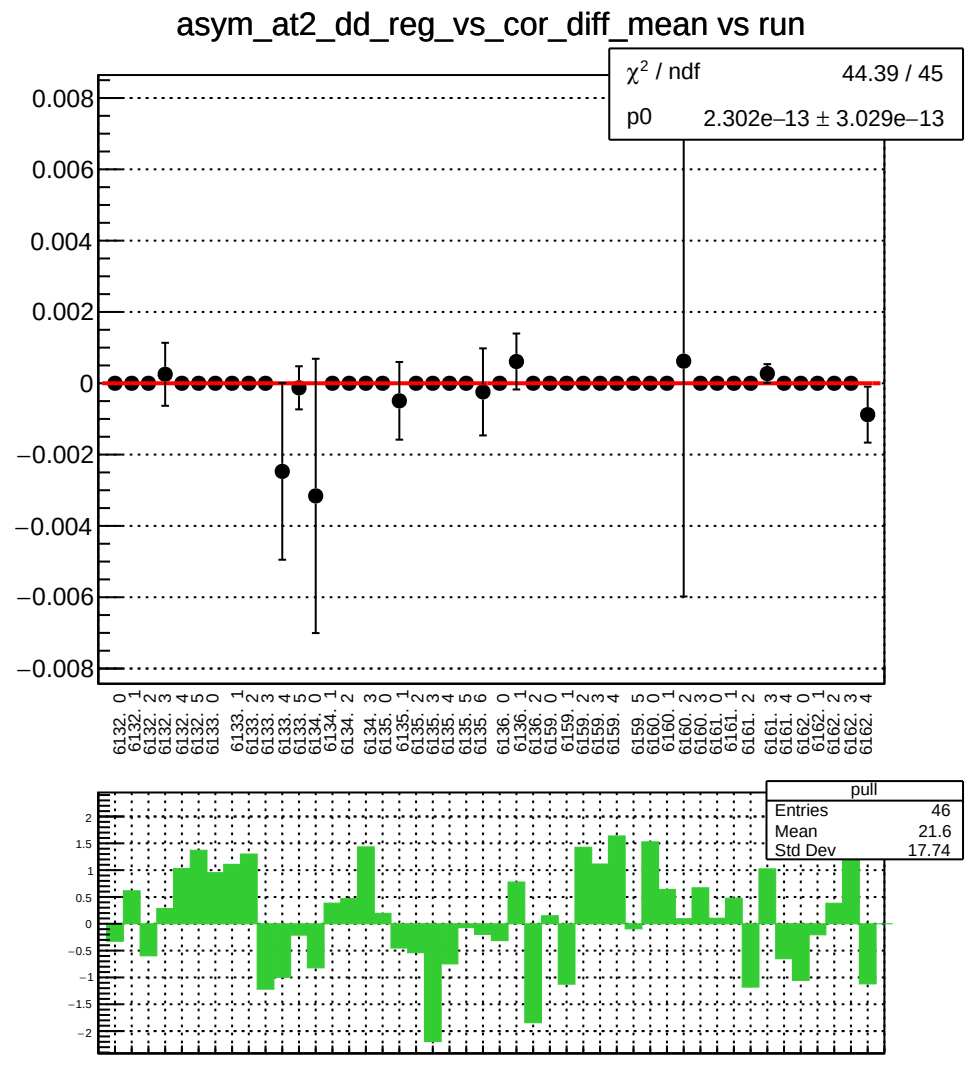

pull1D
Entries 46
Mean −0.04038
Std Dev 1.056

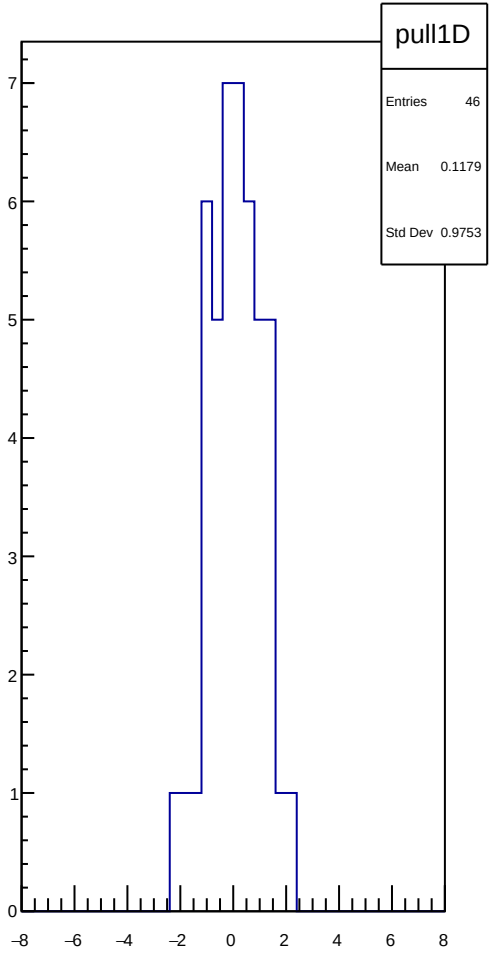

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.147e+04 / 45
p0 2171 ± 2.331
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

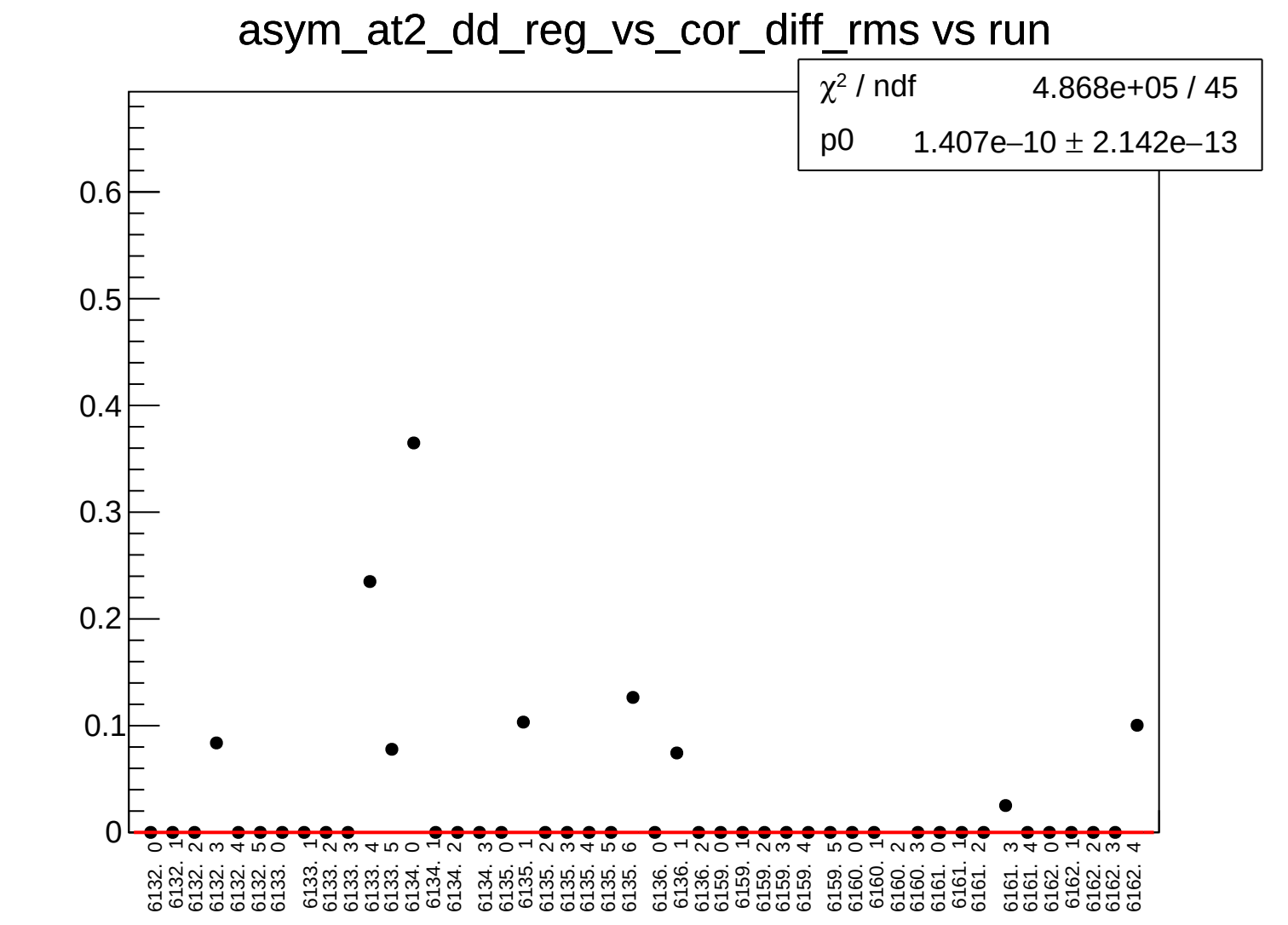

asym_at2_dd_mean vs run
×10^3
χ² / ndf 60.93 / 45
p0 351.8 ± 4112
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 199.4
Std Dev 0
4
3
2
1
0
−1
−2

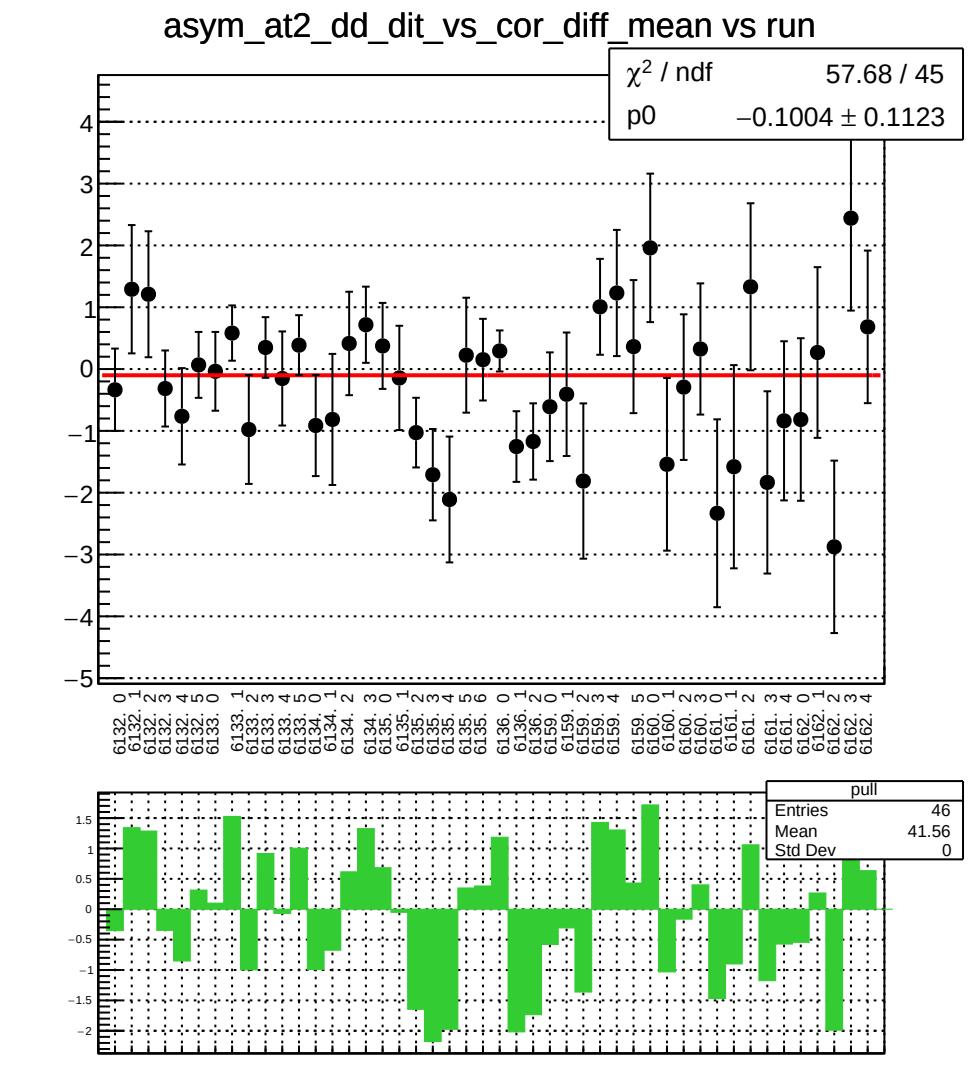

pull1D
Entries 46
Mean 0.02306
Std Dev 1.151
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

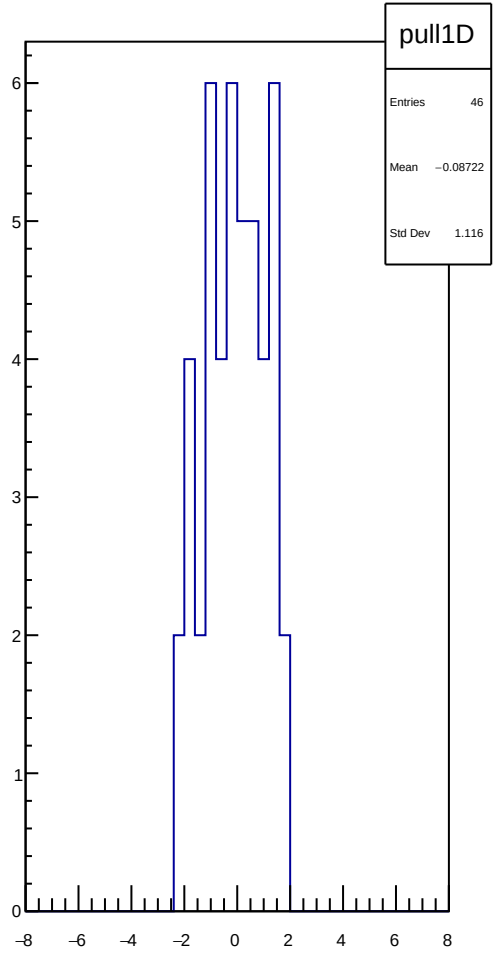

asym_at2_dd_rms vs run
χ² / ndf 2.707e+04 / 45
p0 2745 ± 2.907
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

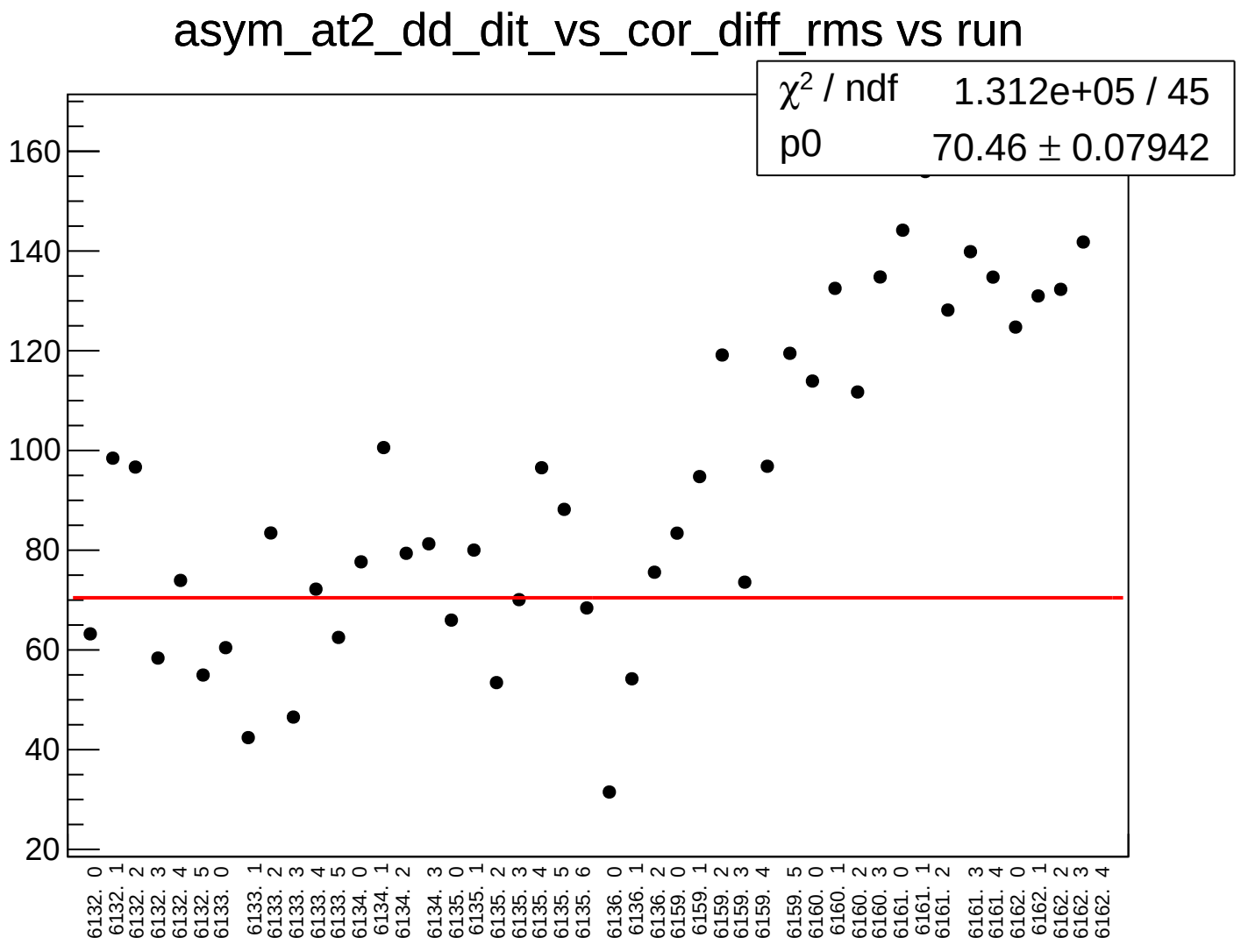

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 44.39 / 45
p0 2.302e−13 ± 3.029e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 21.6
Std Dev 17.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

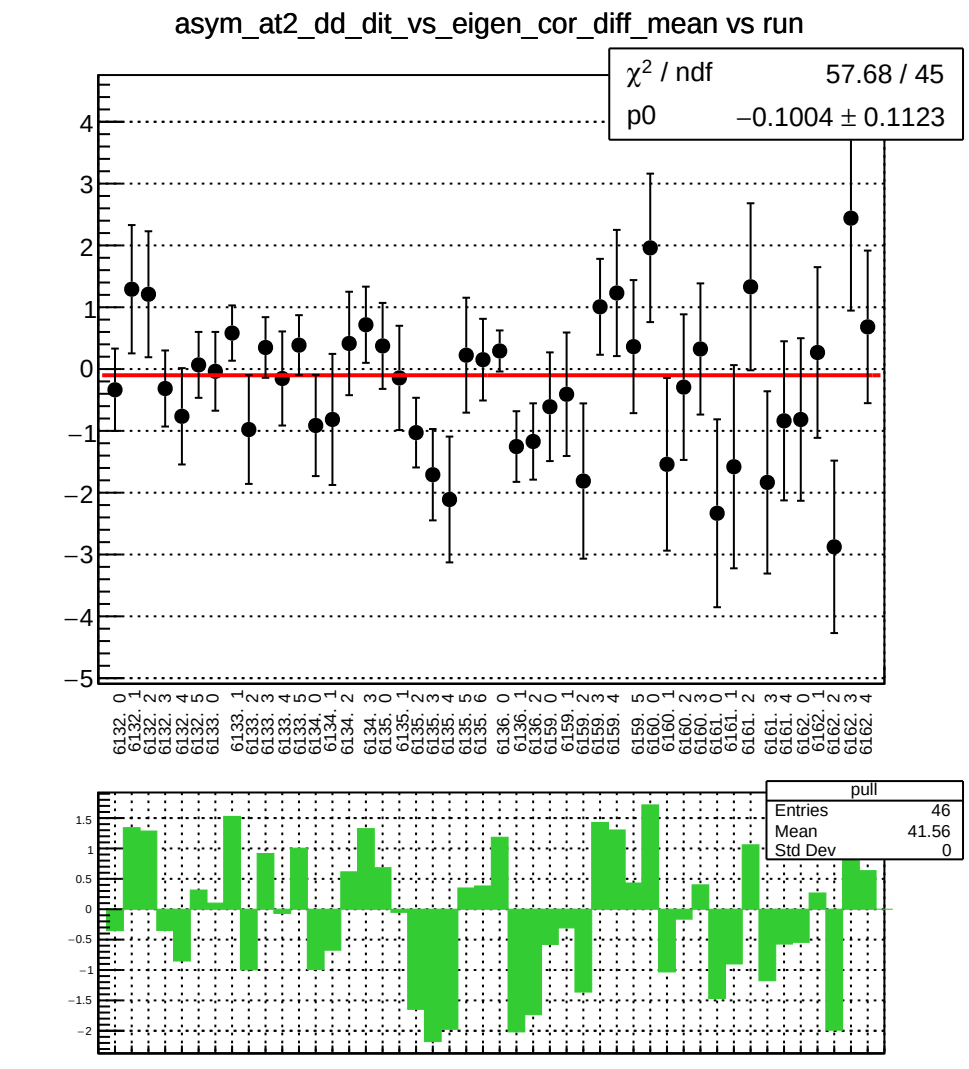

pull1D
Entries 46
Mean 0.1179
Std Dev 0.9753
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

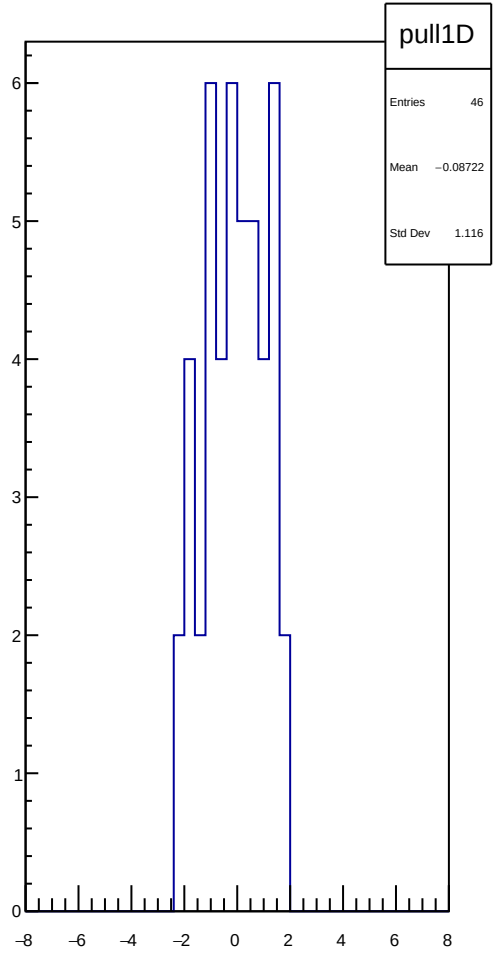

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.868e+05 / 45
p0 1.407e−10 ± 2.142e−13
0.6
0.5
0.4
0.3
0.2
0.1
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

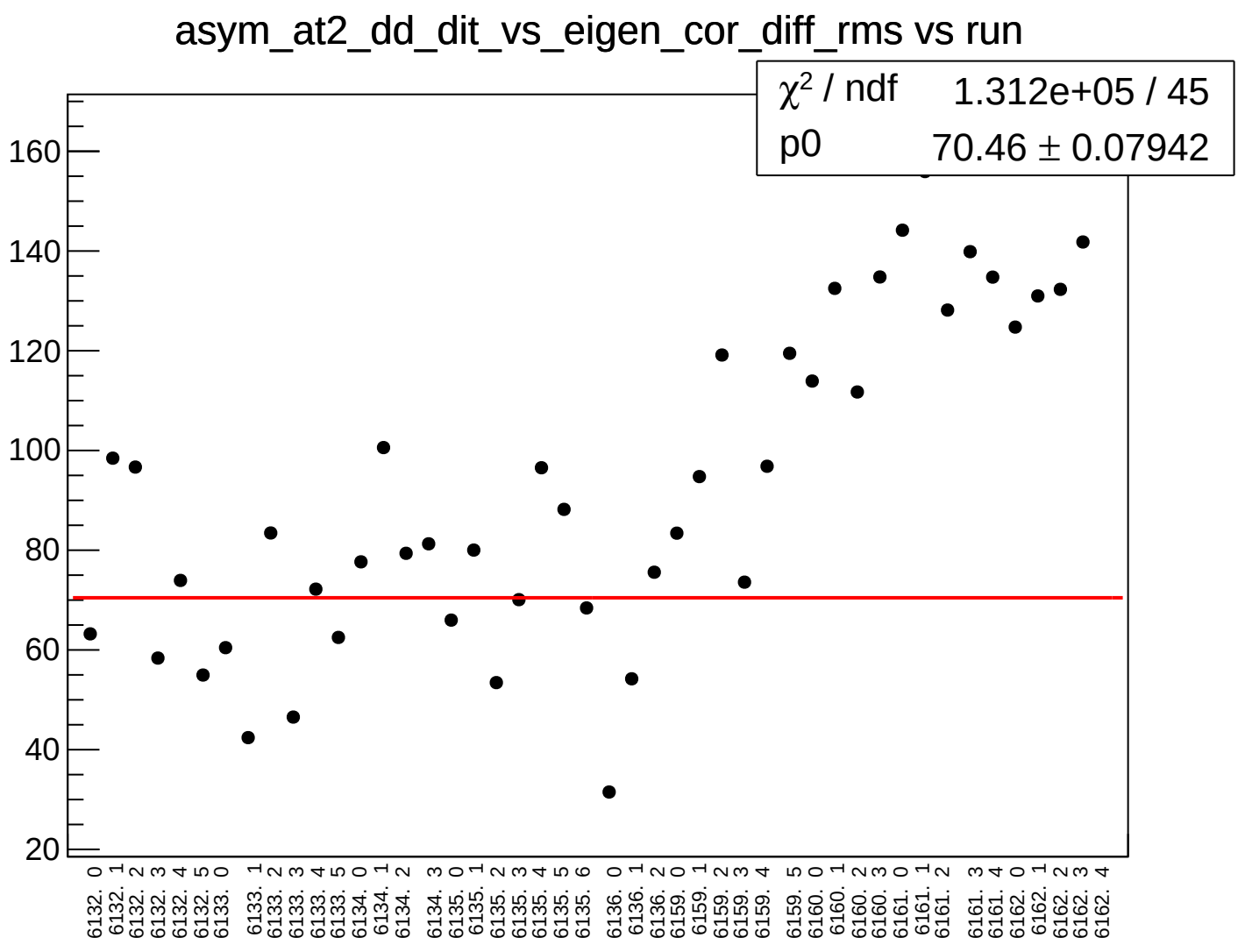

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 57.68 / 45
p0 −0.1004 ± 0.1123
pull
Entries 46
Mean 41.56
Std Dev 0

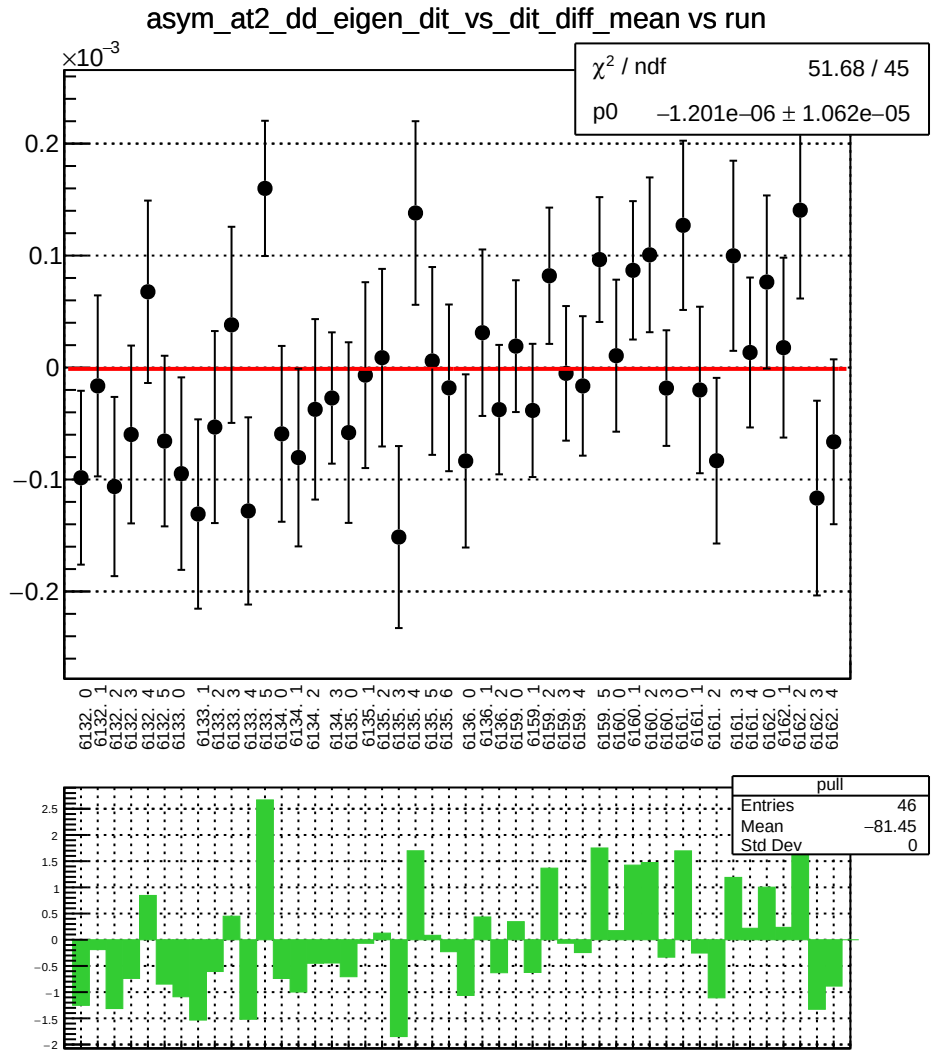

pull1D
Entries 46
Mean −0.08722
Std Dev 1.116

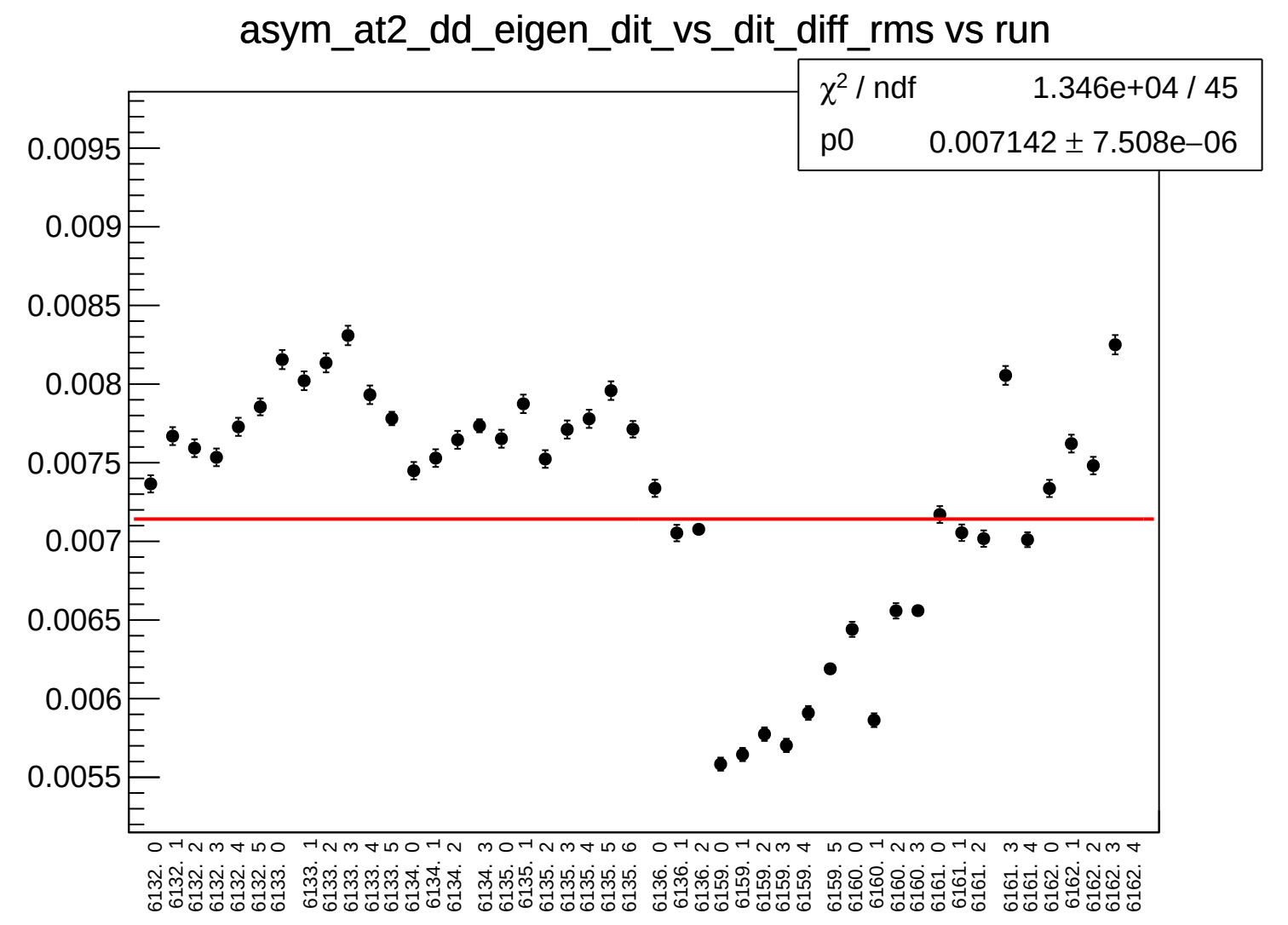

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.312e+05 / 45
p0 70.46 ± 0.07942
160
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

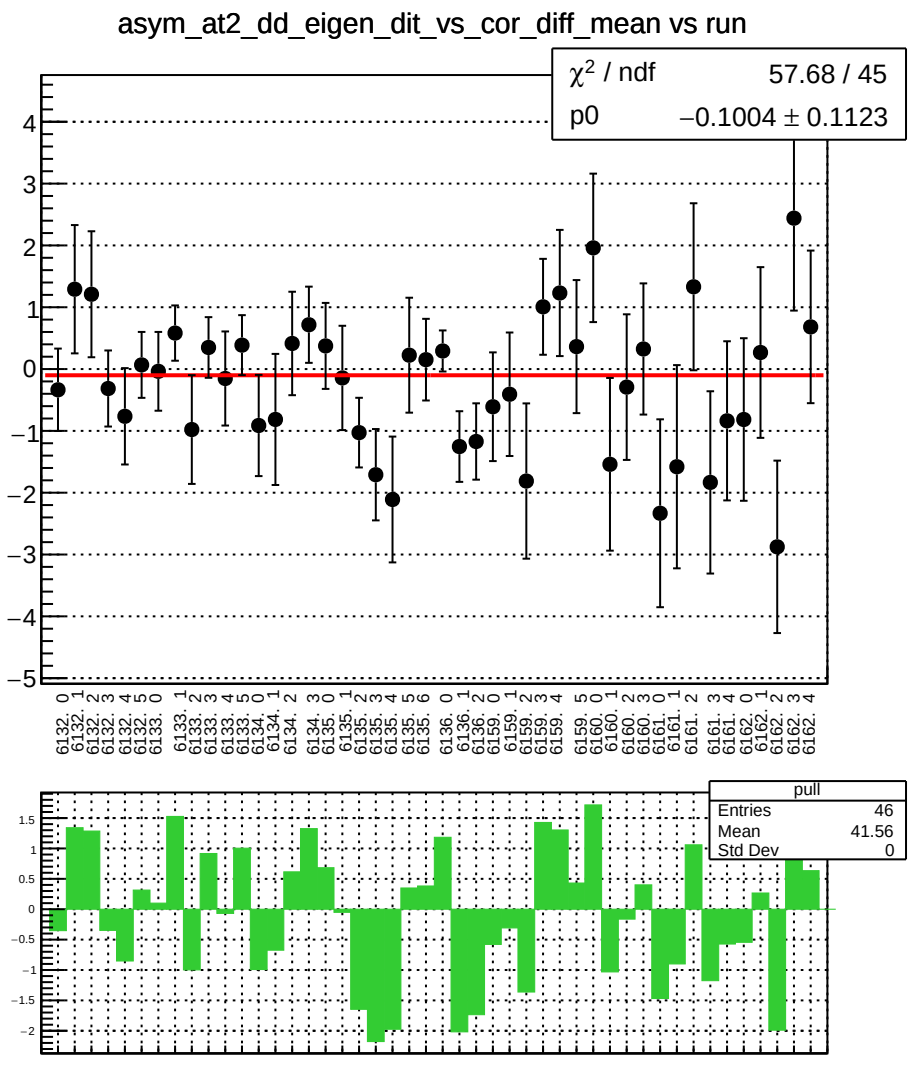

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.68 / 45
p0 −0.1004 ± 0.1123
pull
Entries 46
Mean 41.56
Std Dev 0

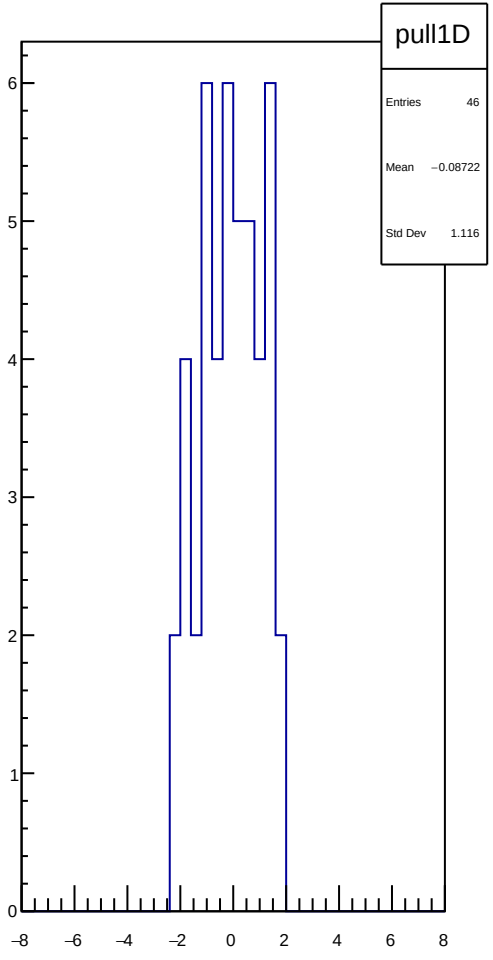

pull1D
Entries 46
Mean −0.08722
Std Dev 1.116

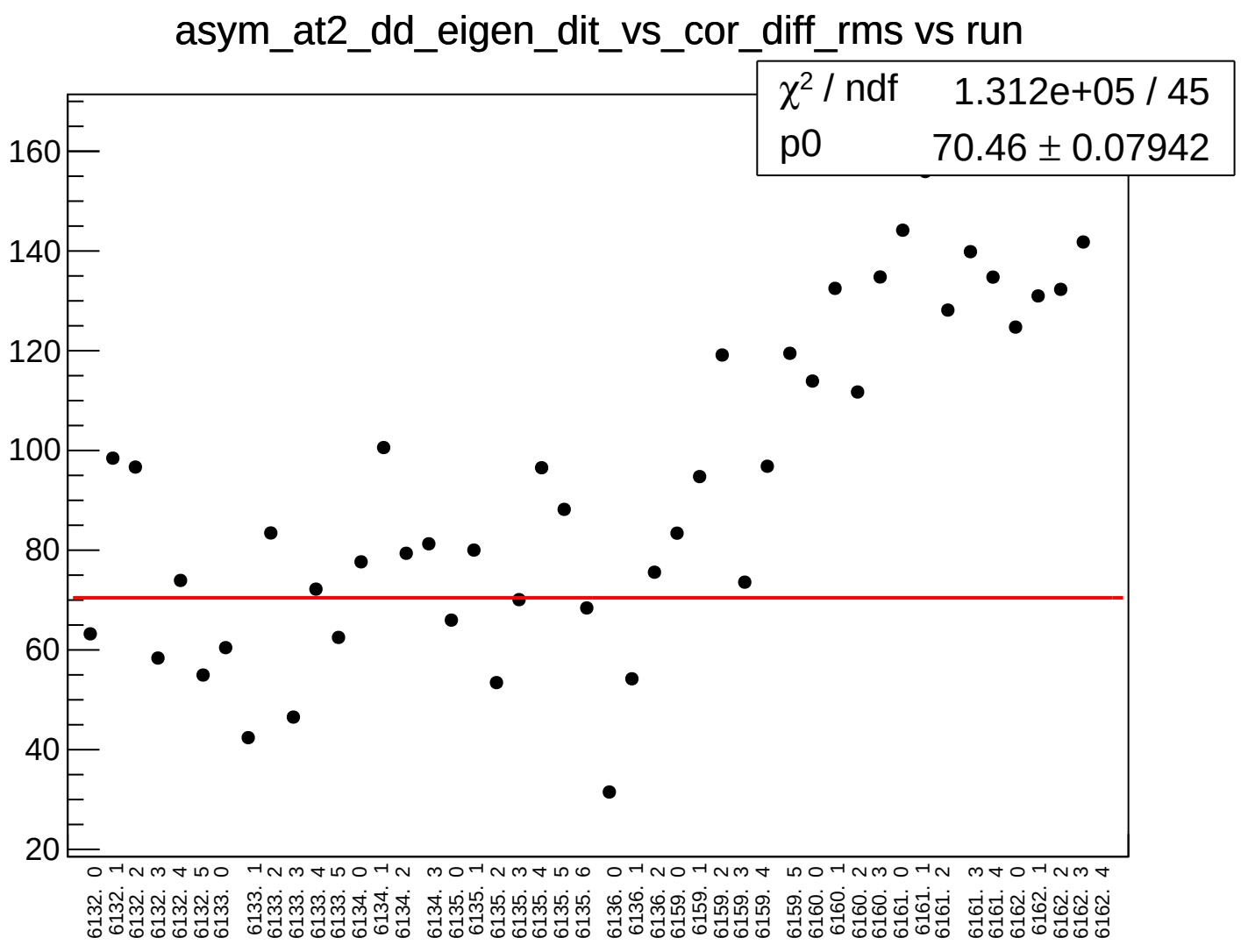

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.312e+05 / 45
p0 70.46 ± 0.07942
160
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

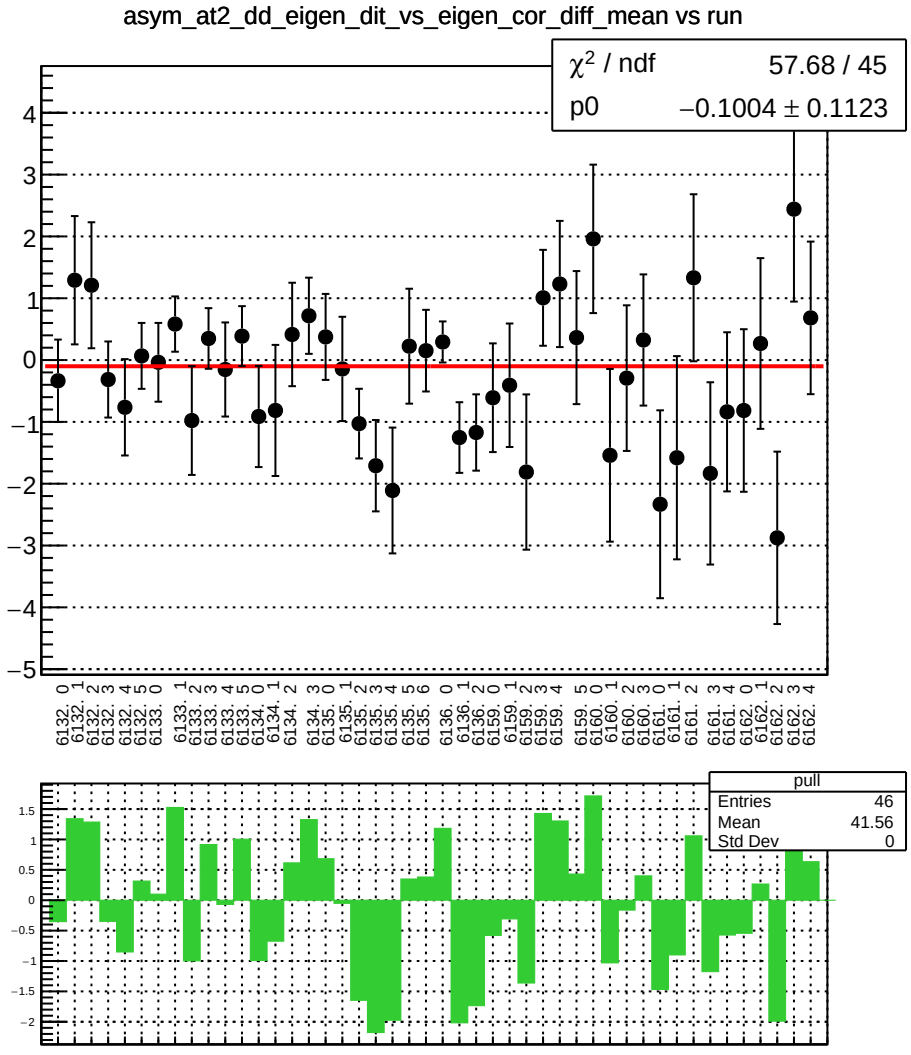

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 51.68 / 45
p0 −1.201e−06 ± 1.062e−05
0.2
0.1
0
−0.1
−0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −81.45
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.04577
Std Dev 1.059
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

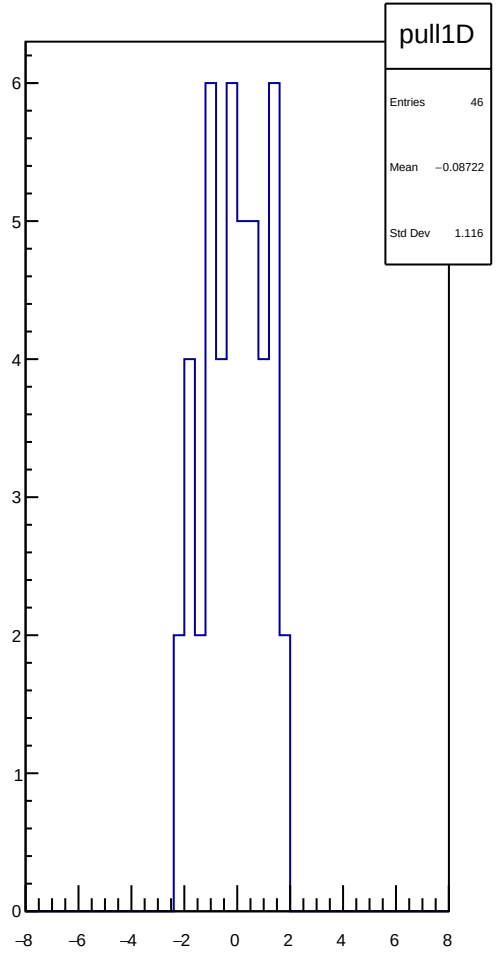

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.346e+04 / 45
p0 0.007142 ± 7.508e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

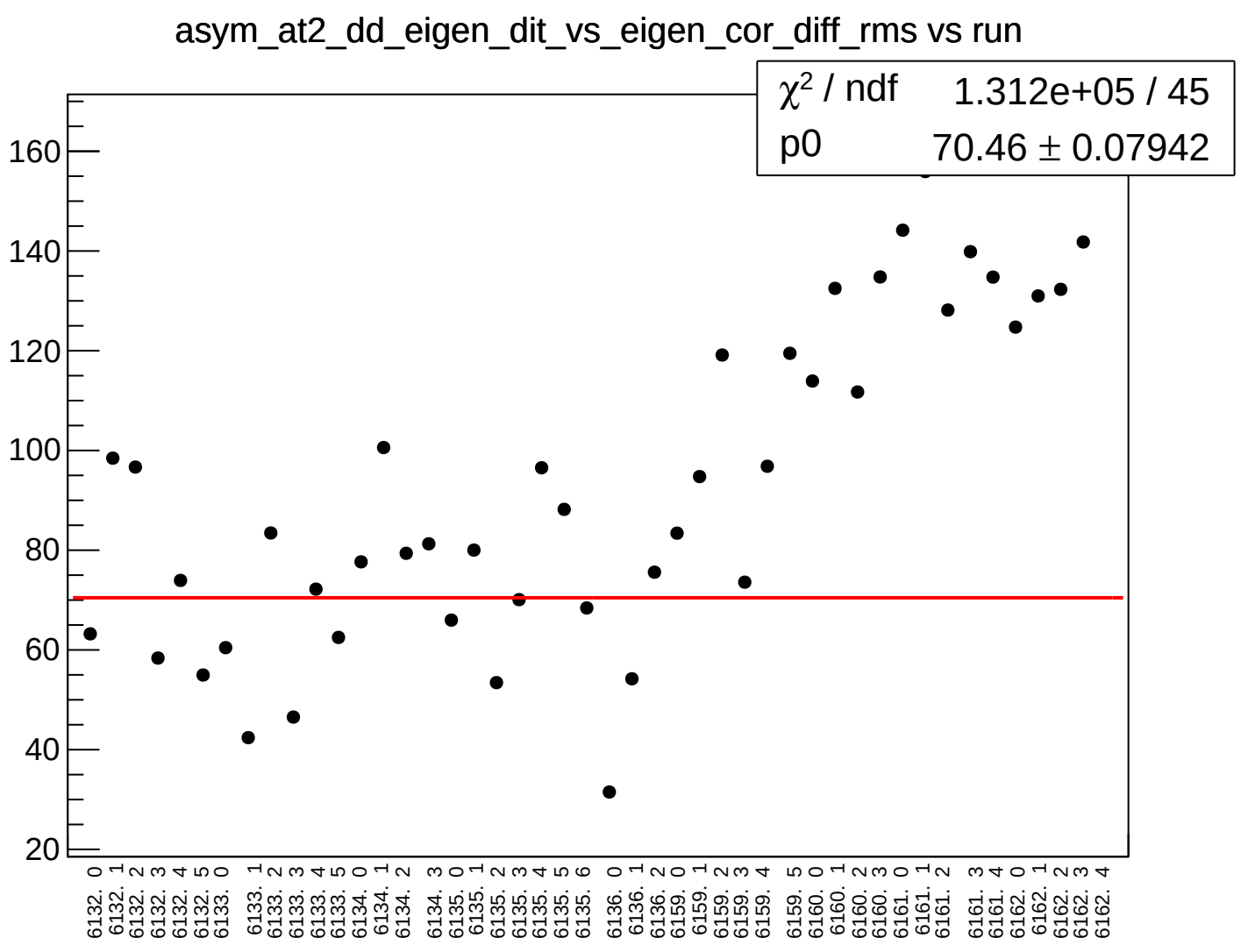

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 57.68 / 45
p0 −0.1004 ± 0.1123
pull
Entries 46
Mean 41.56
Std Dev 0

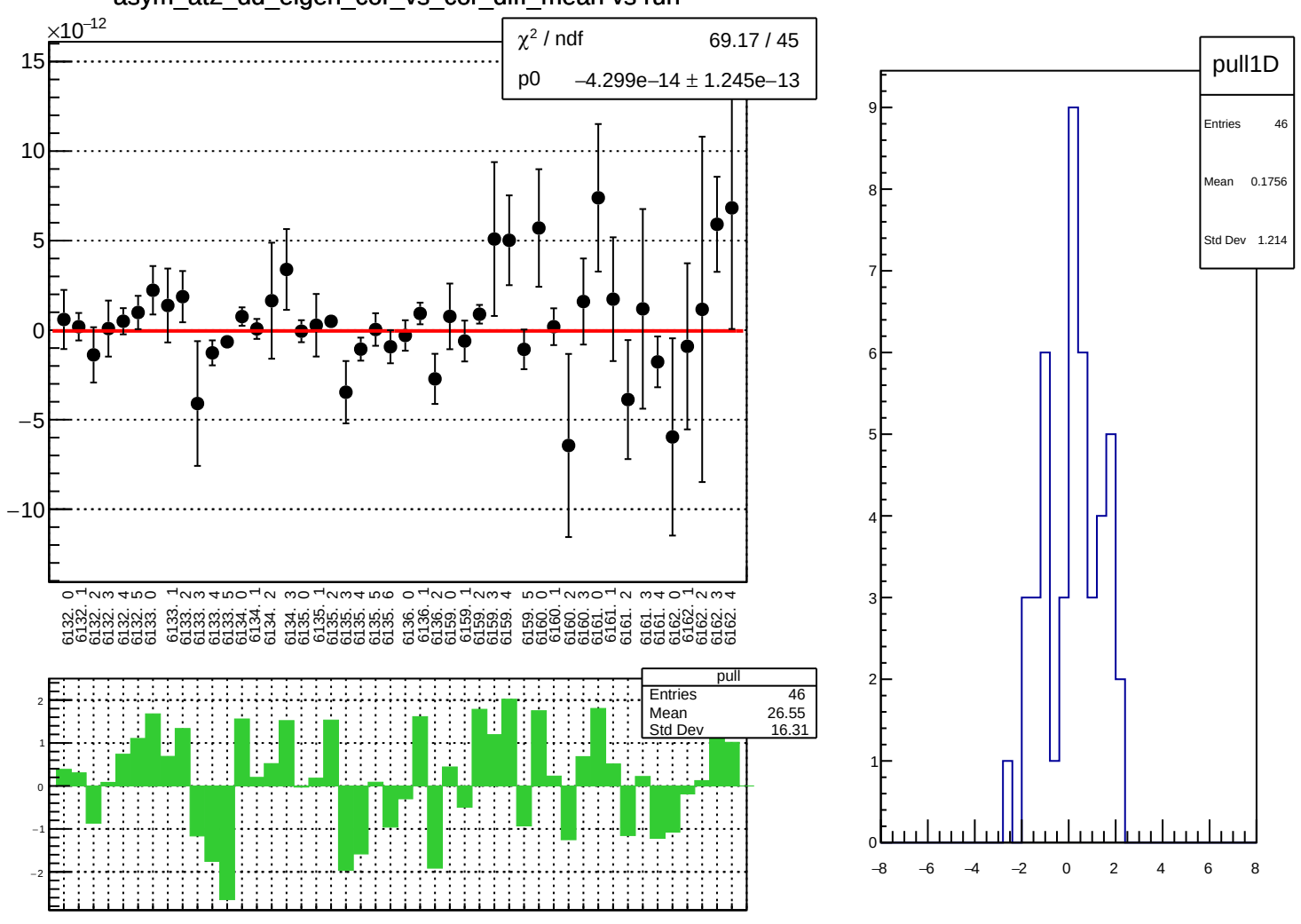

pull1D
Entries 46
Mean −0.08722
Std Dev 1.116

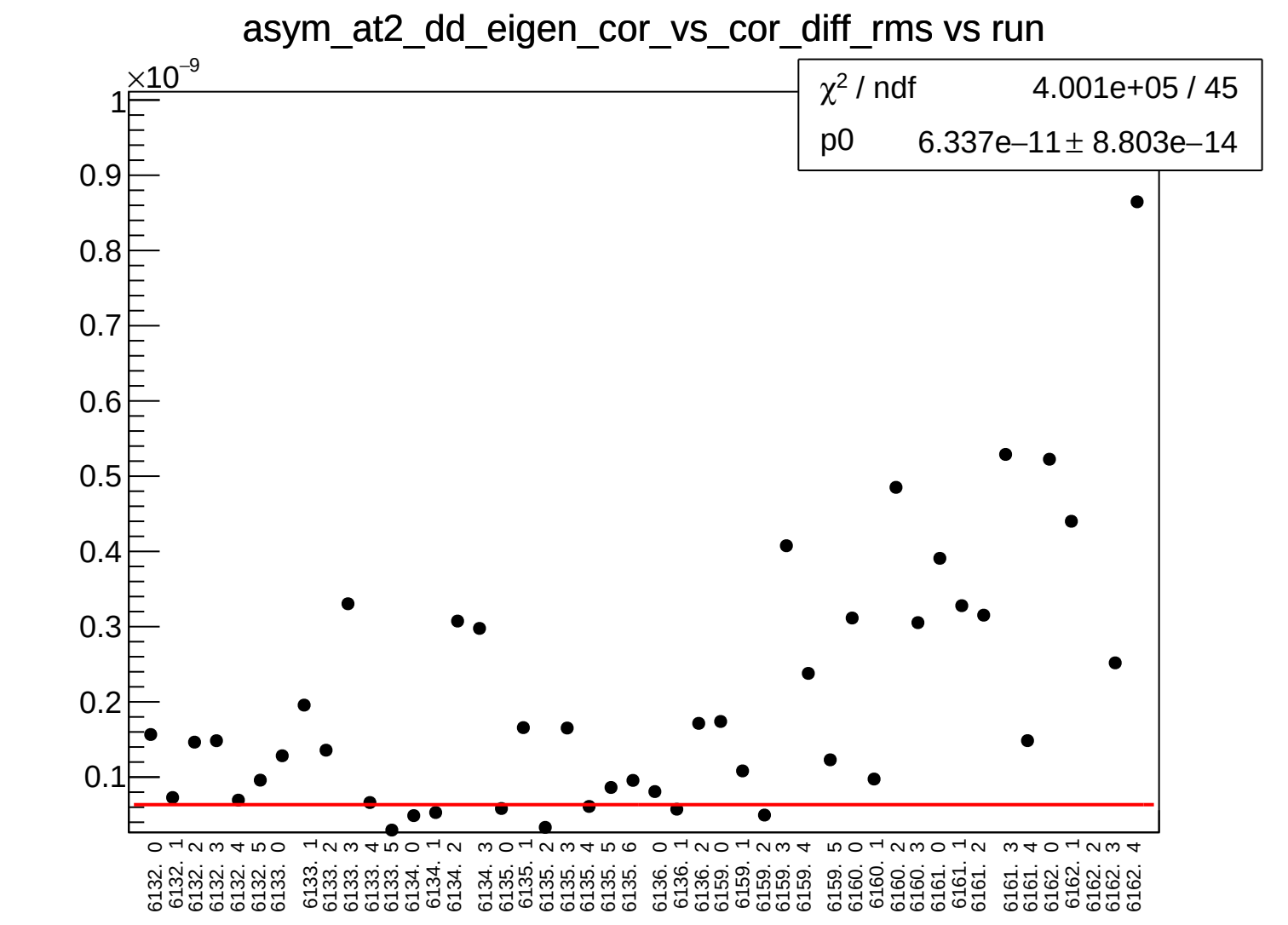

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.312e+05 / 45
p0 70.46 ± 0.07942
160
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.68 / 45
p0 −0.1004 ± 0.1123
pull
Entries 46
Mean 41.56
Std Dev 0


pull1D
Entries 46
Mean −0.08722
Std Dev 1.116


asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.312e+05 / 45
p0 70.46 ± 0.07942
160
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.17 / 45
p0 −4.299e−14 ± 1.245e−13
15
10
5
0
−5
−10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 26.55
Std Dev 16.31
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.1756
Std Dev 1.214
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.001e+05 / 45
p0 6.337e−11 ± 8.803e−14
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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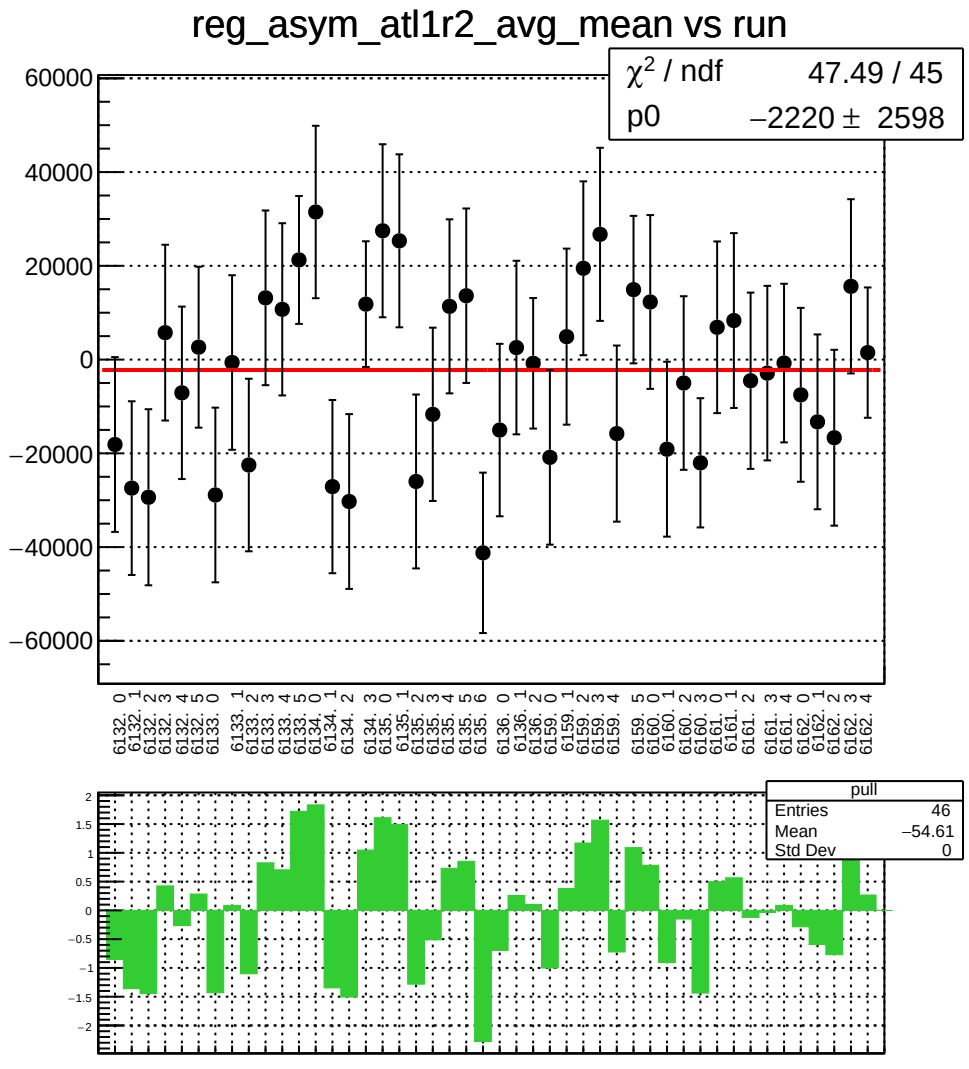
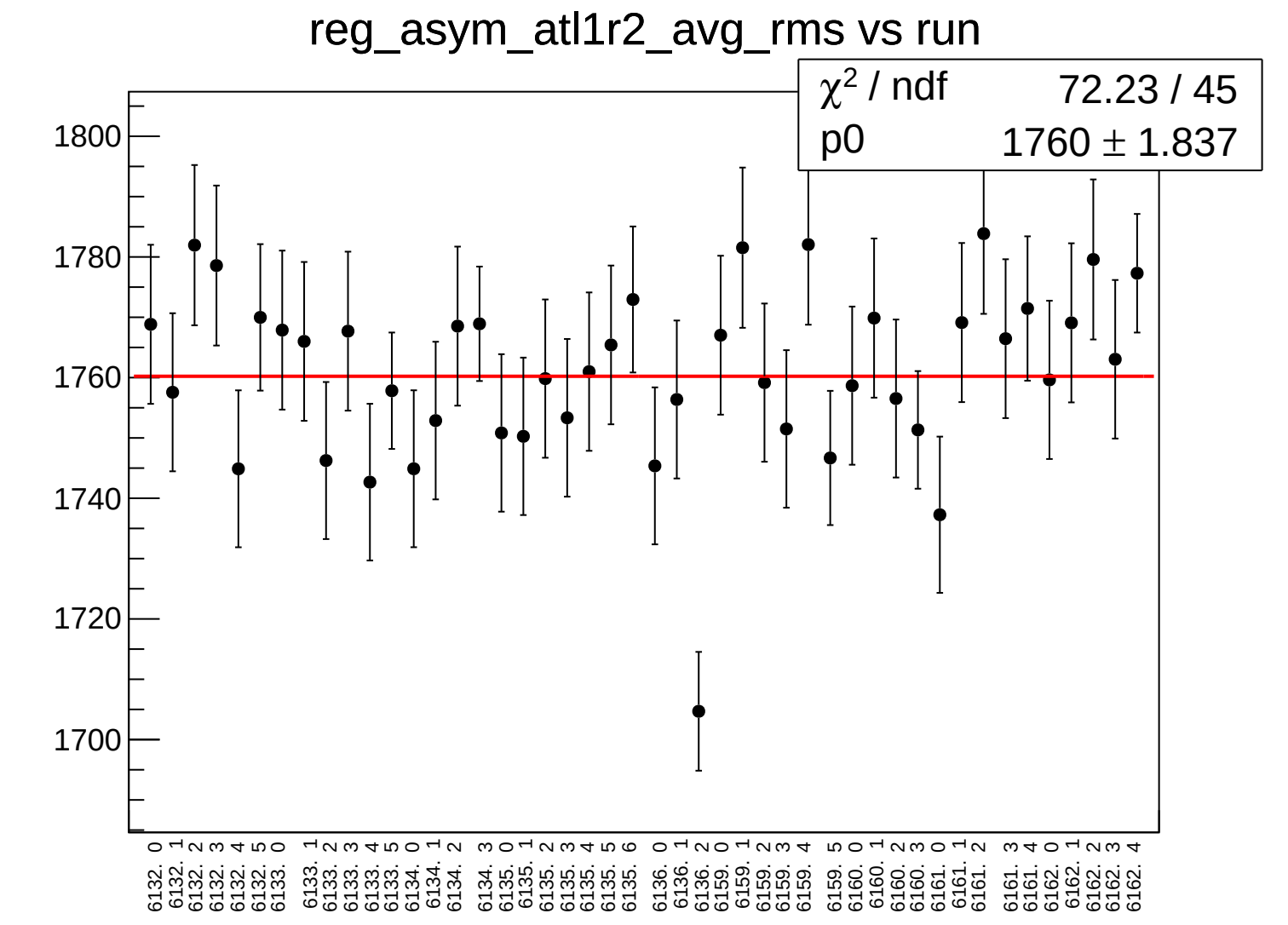
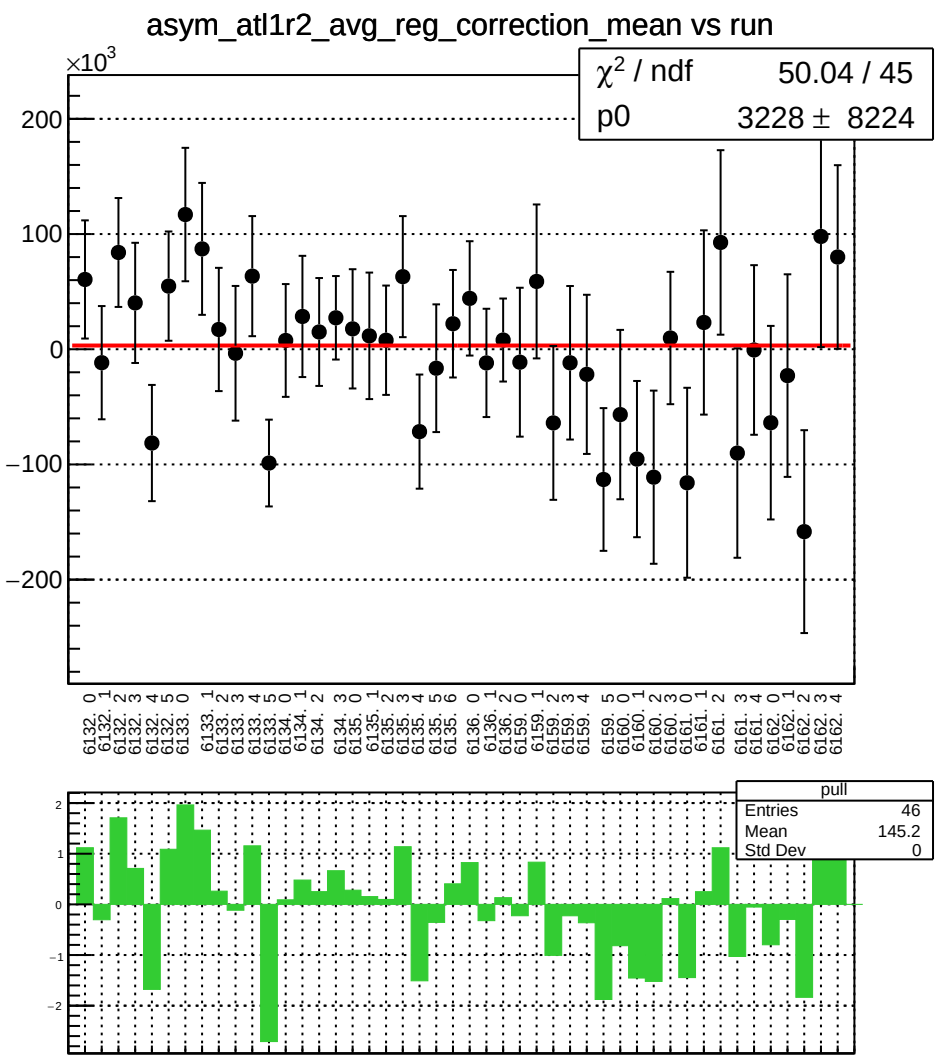
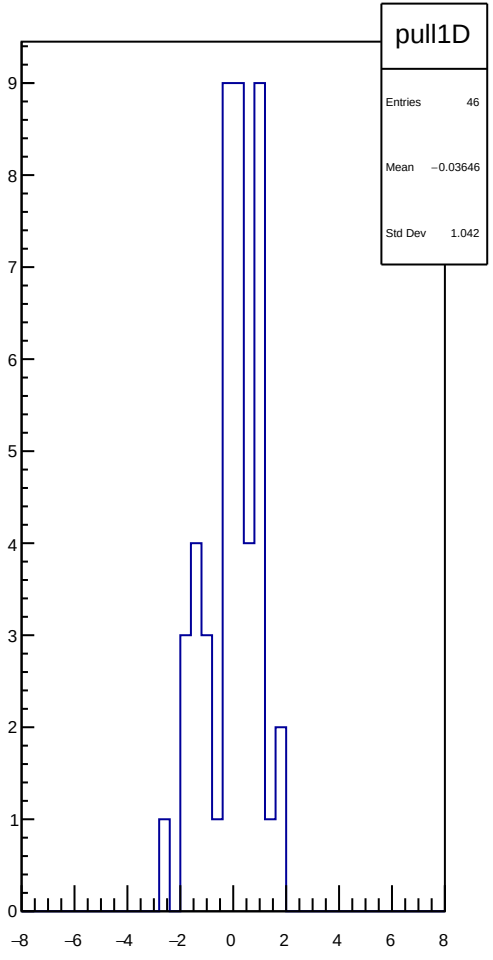
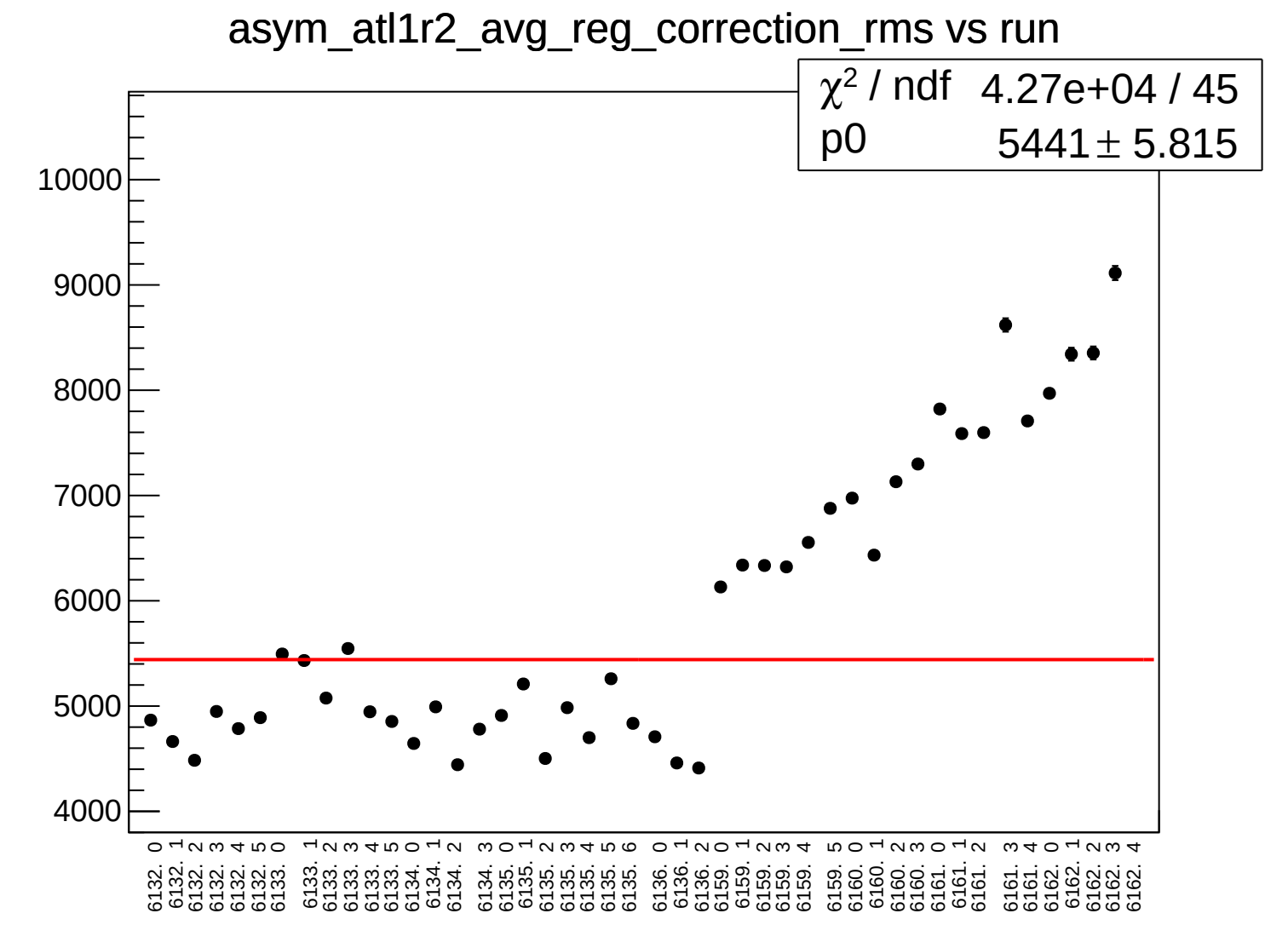
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_atl1r2_avg_mean vs run
χ² / ndf 47.49 / 45
p0 −2220 ± 2598
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −54.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.01647
Std Dev 1.016
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 72.23 / 45
p0 1760 ± 1.837
1800
1780
1760
1740
1720
1700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 50.04 / 45
p0 3228 ± 8224
200
100
0
−100
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 145.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.03646
Std Dev 1.042
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 4.27e+04 / 45
p0 5441 ± 5.815
10000
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
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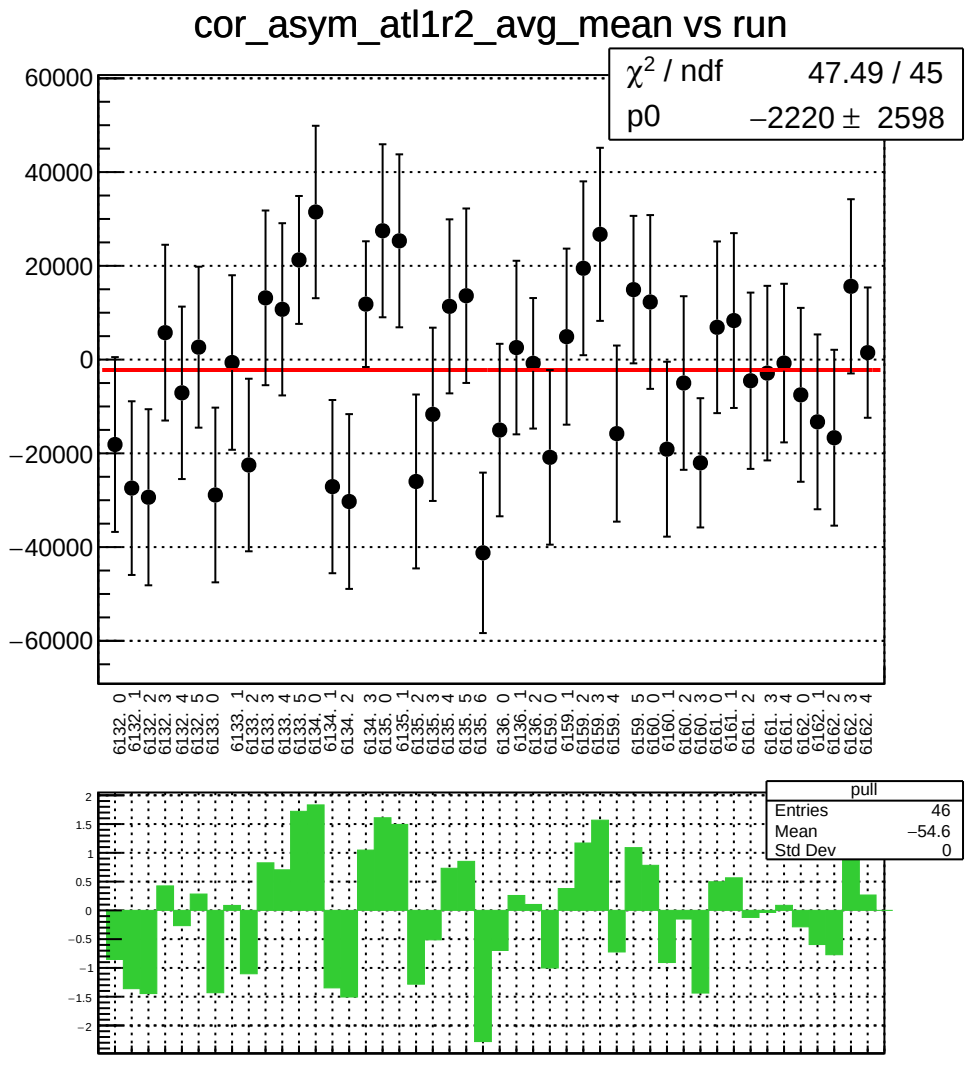
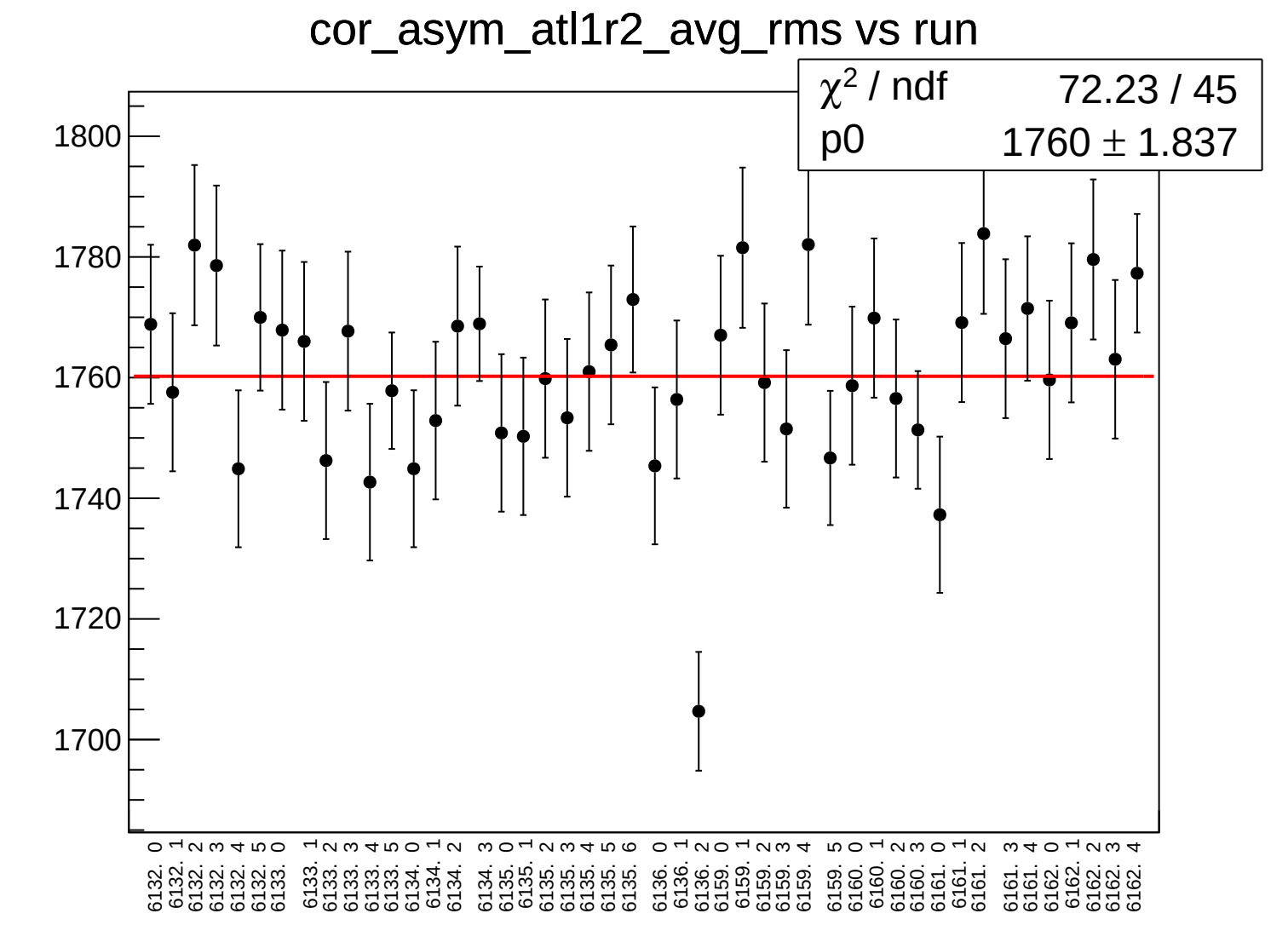
6162. 4


cor_asym_atl1r2_avg_mean vs run
χ² / ndf 47.49 / 45
p0 −2220 ± 2598
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −54.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.01647
Std Dev 1.016
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl1r2_avg_rms vs run
χ² / ndf 72.23 / 45
p0 1760 ± 1.837
1800
1780
1760
1740
1720
1700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6134. 1
6134. 2
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6135. 4
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6135. 6
6136. 0
6136. 1
6136. 2
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6159. 3
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6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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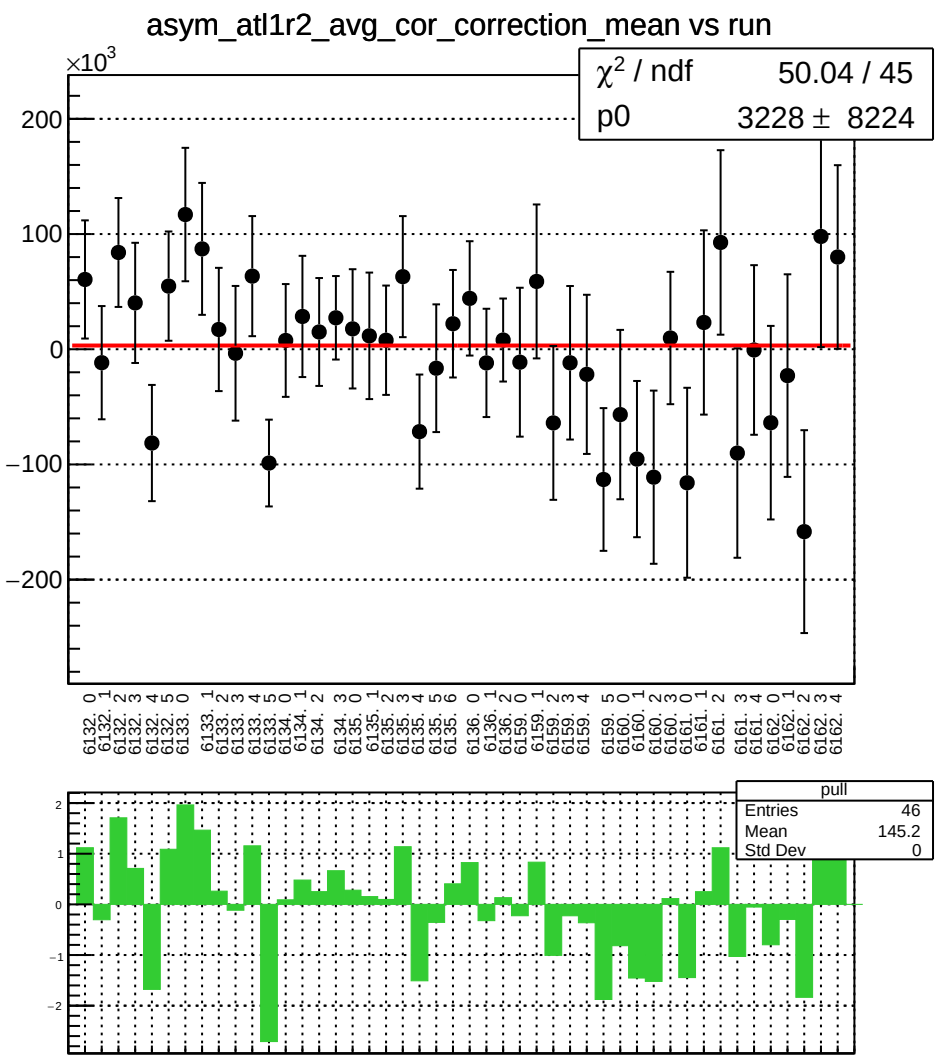
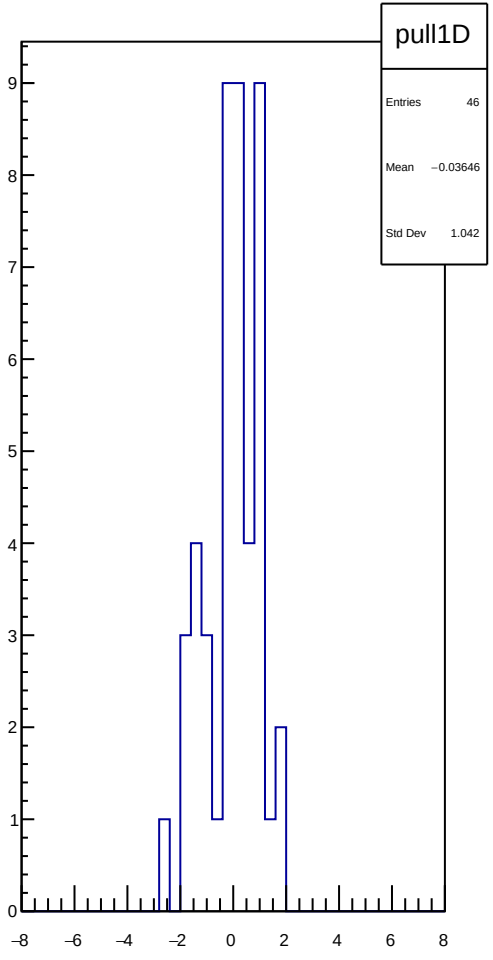
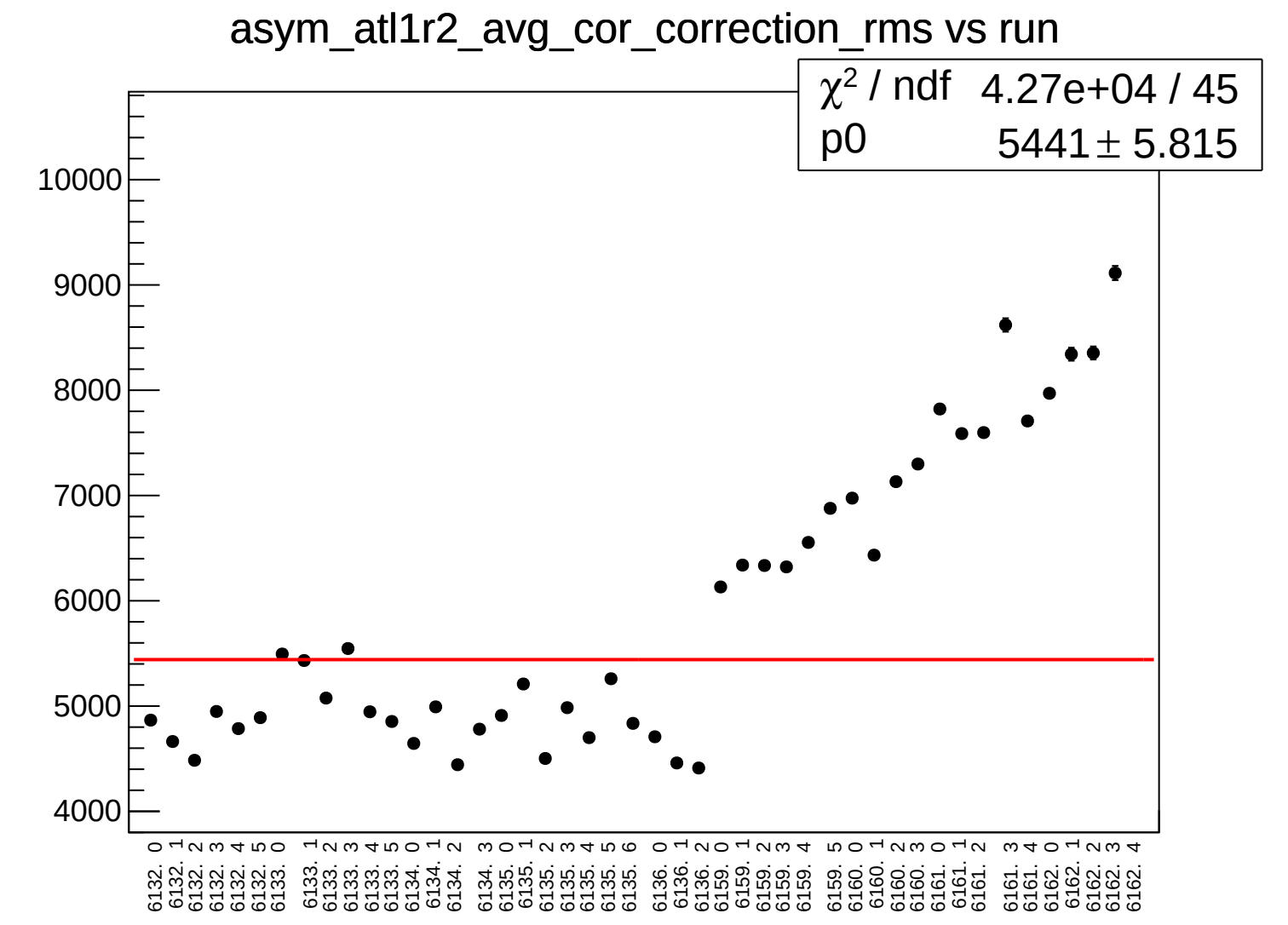
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 50.04 / 45
p0 3228 ± 8224
200
100
0
−100
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 145.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.03646
Std Dev 1.042
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 4.27e+04 / 45
p0 5441 ± 5.815
10000
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
6161. 3
6161. 4
6162. 0
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6162. 2
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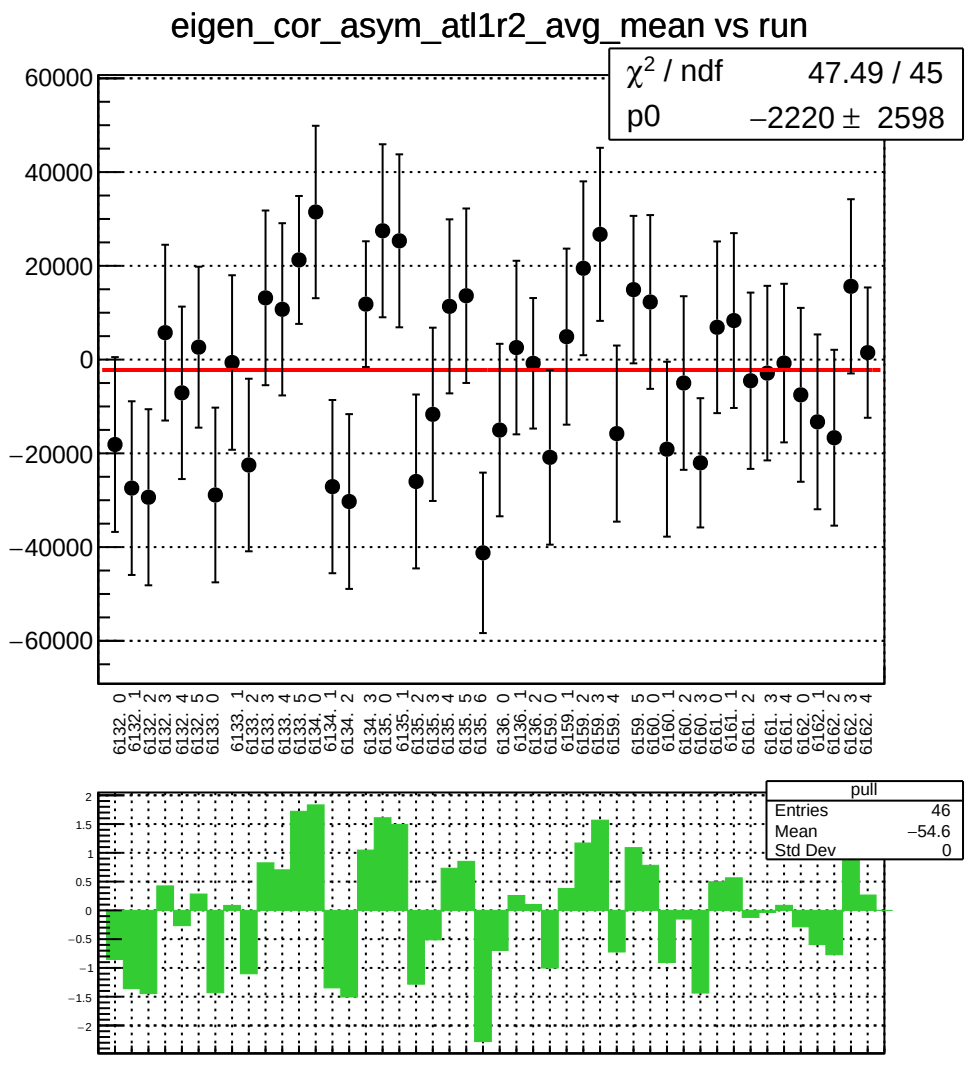
6162. 4


eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 47.49 / 45
p0 −2220 ± 2598
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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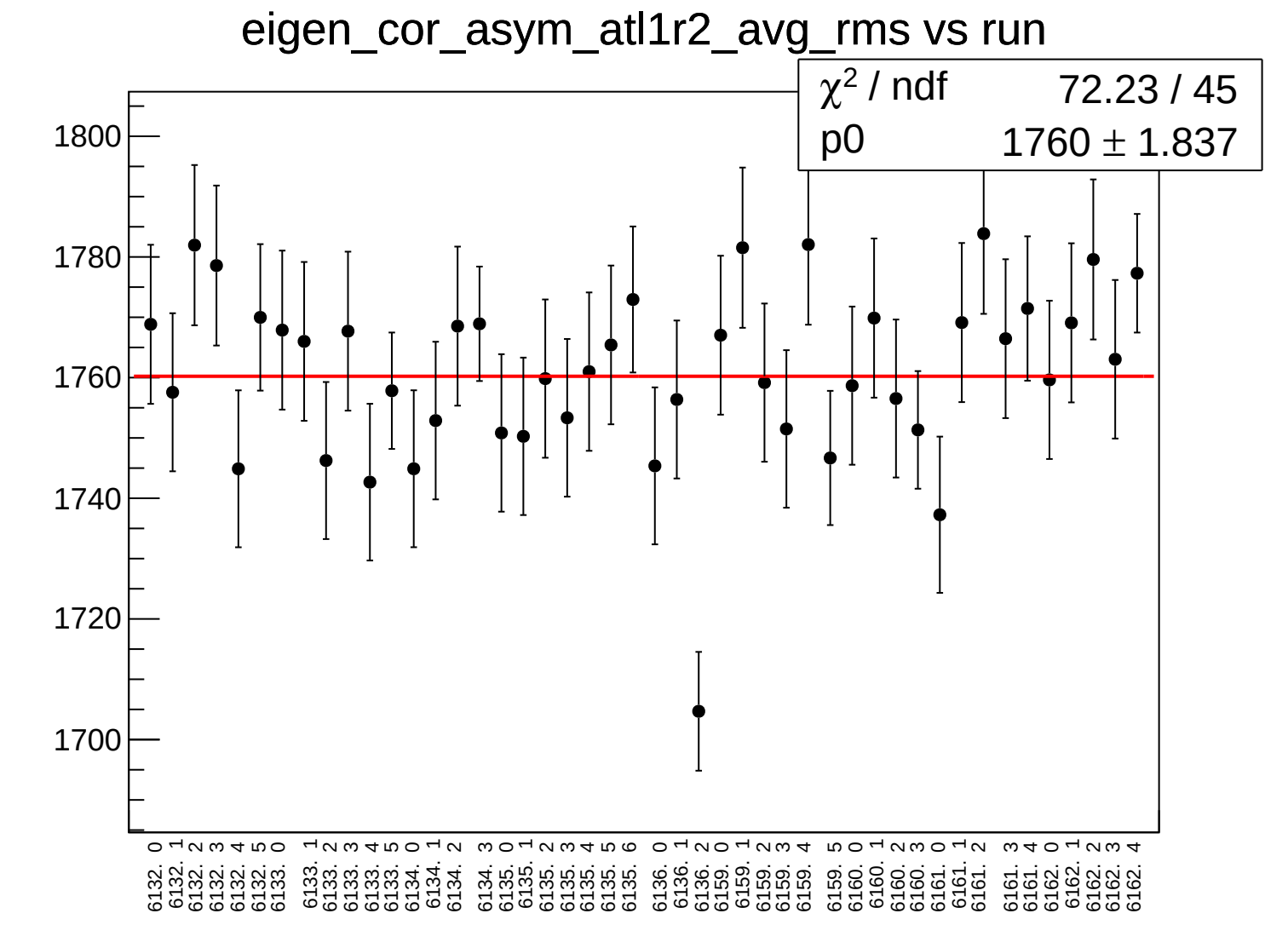
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −54.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.01647
Std Dev 1.016
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 72.23 / 45
p0 1760 ± 1.837
1800
1780
1760
1740
1720
1700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
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6160. 0
6160. 1
6160. 2
6160. 3
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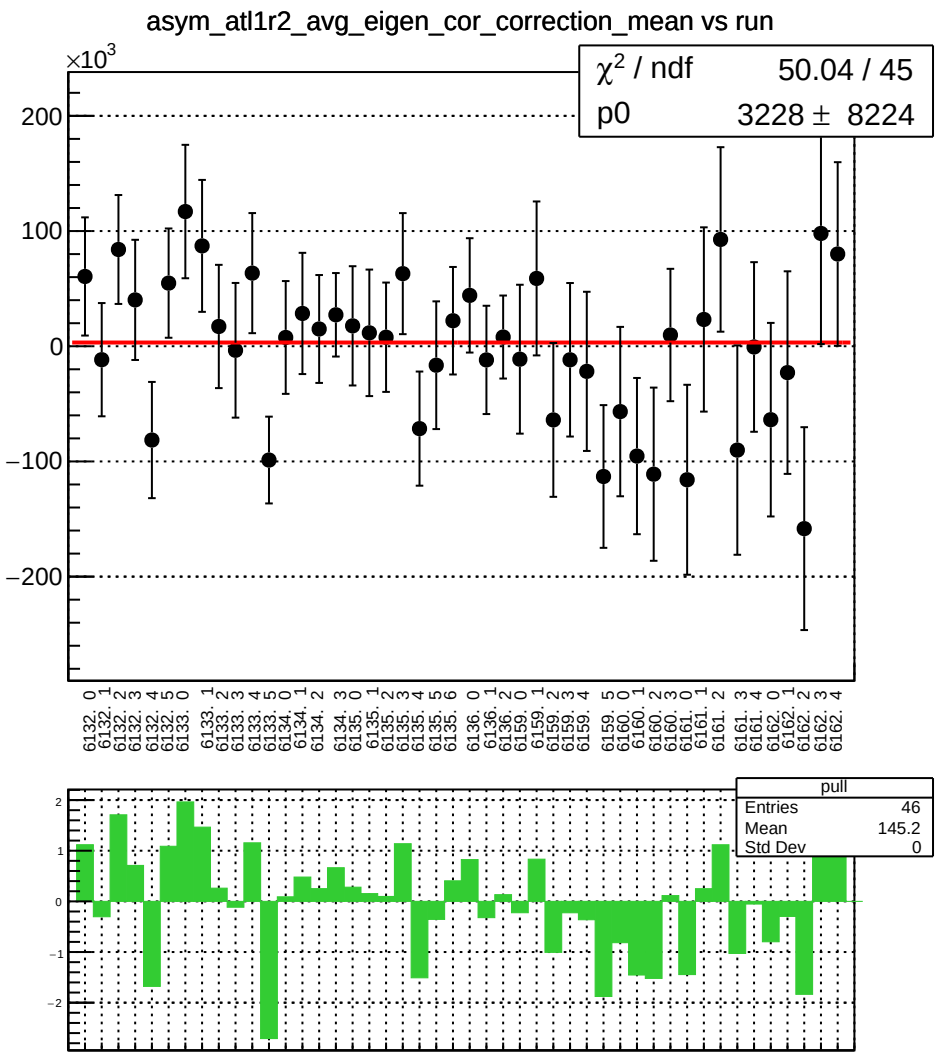
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 50.04 / 45
p0 3228 ± 8224
200
100
0
−100
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6134. 0
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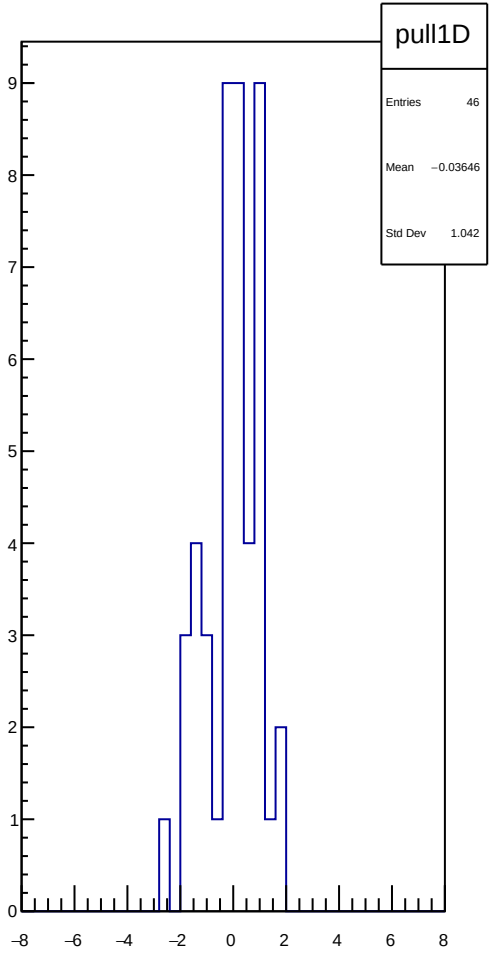
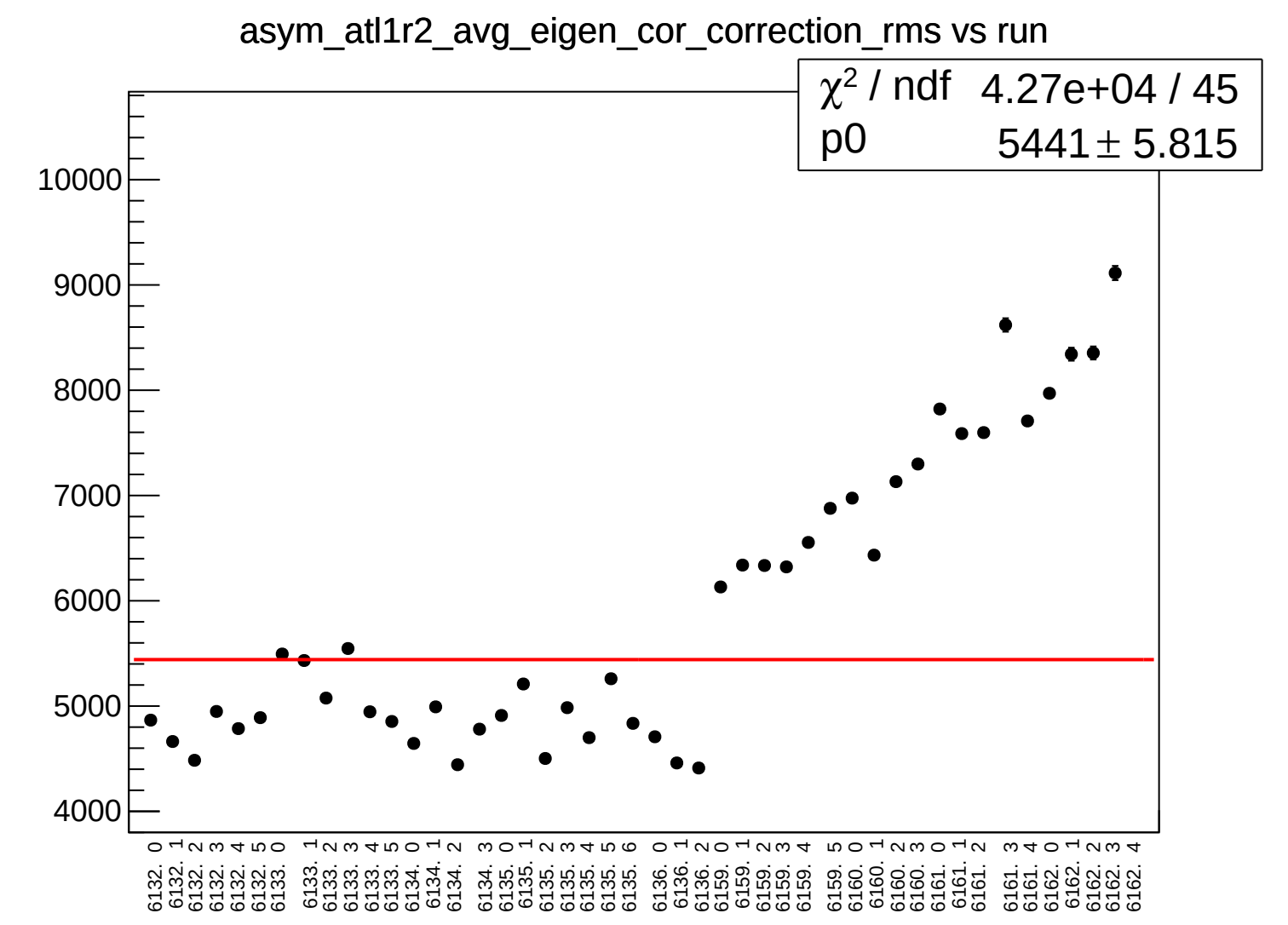
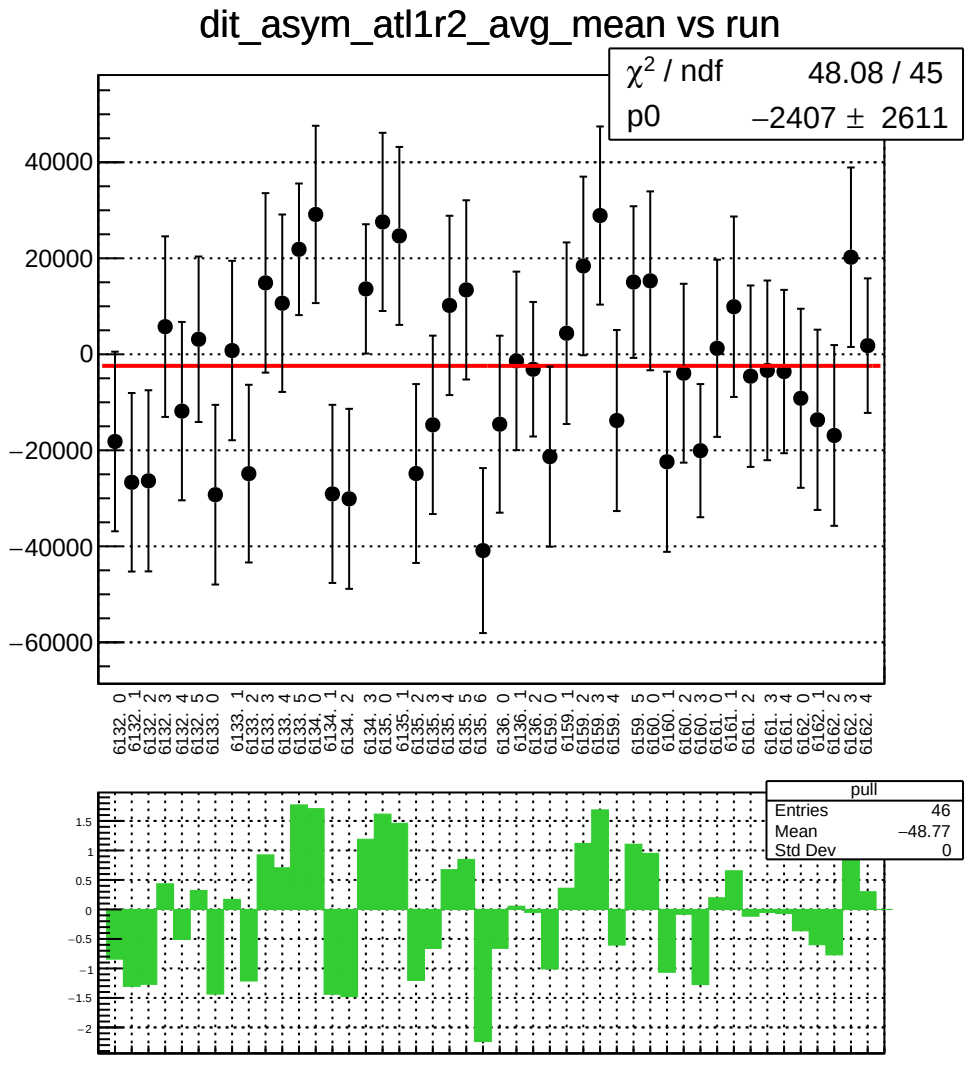
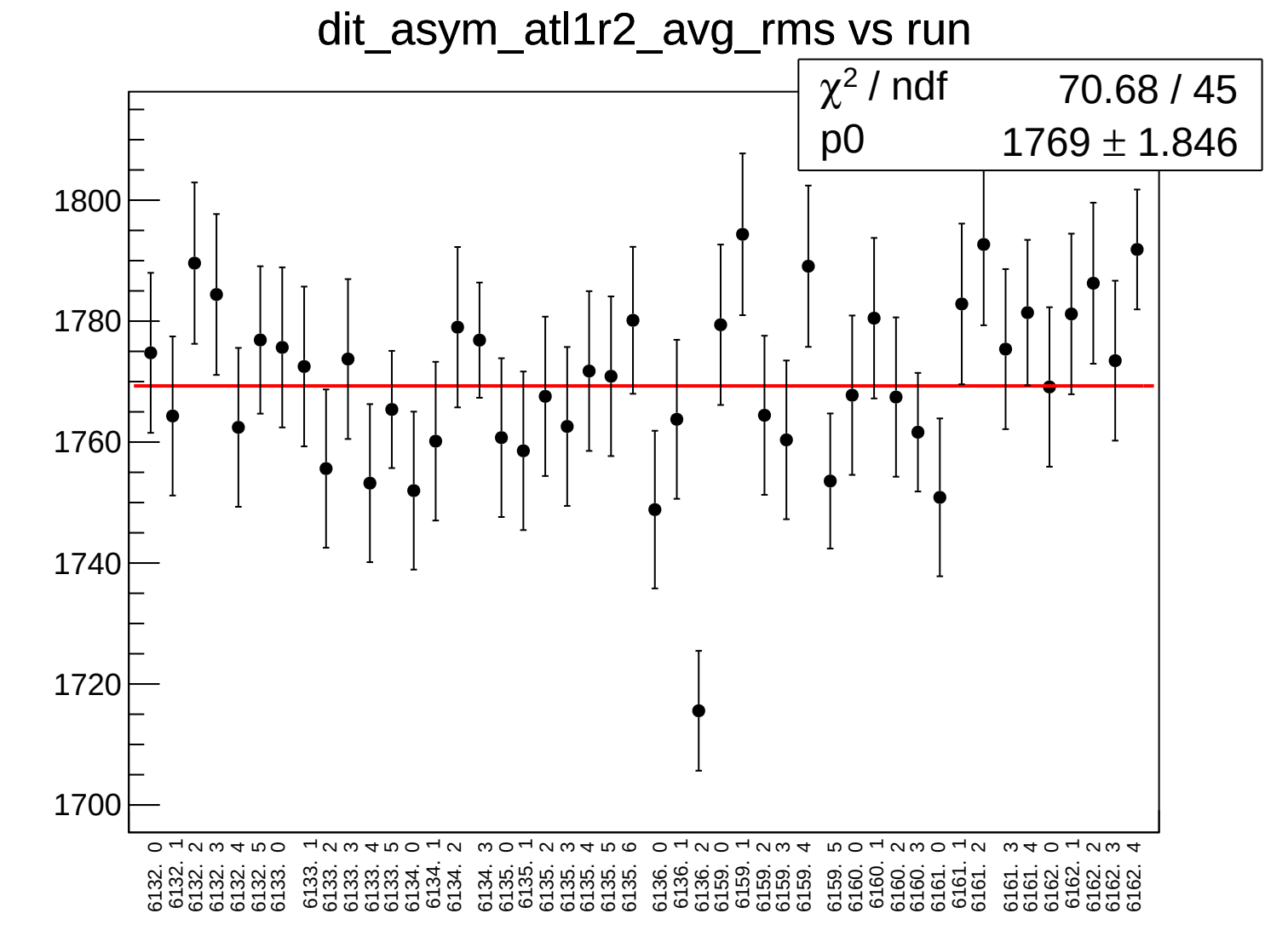
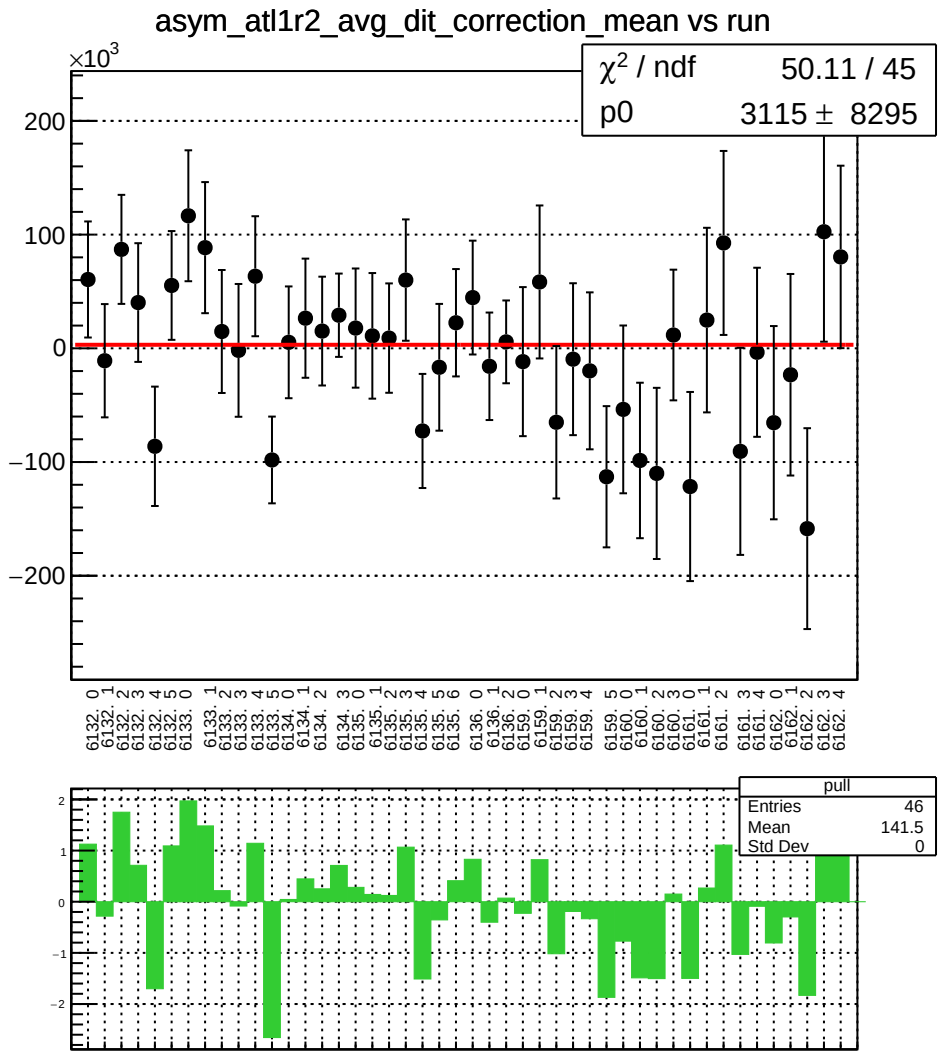
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 145.2
Std Dev 0
2
1
0
−1
−2

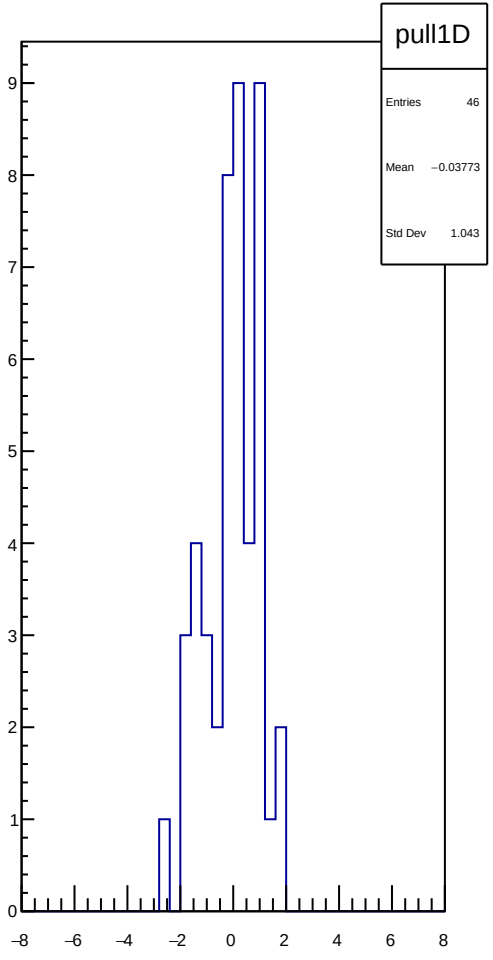

pull1D
Entries 46
Mean −0.03646
Std Dev 1.042
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

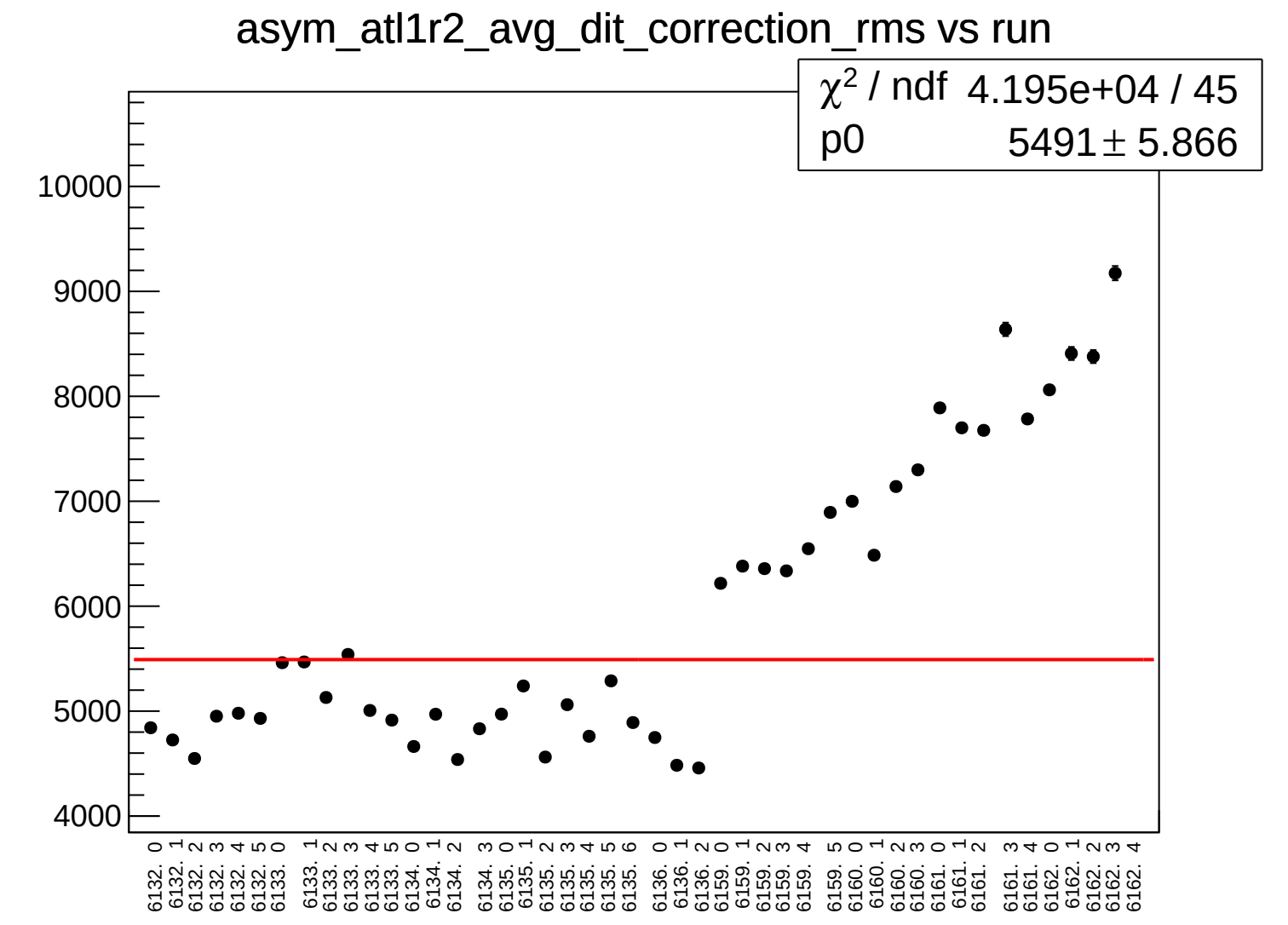

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.27e+04 / 45
p0 5441 ± 5.815
10000
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

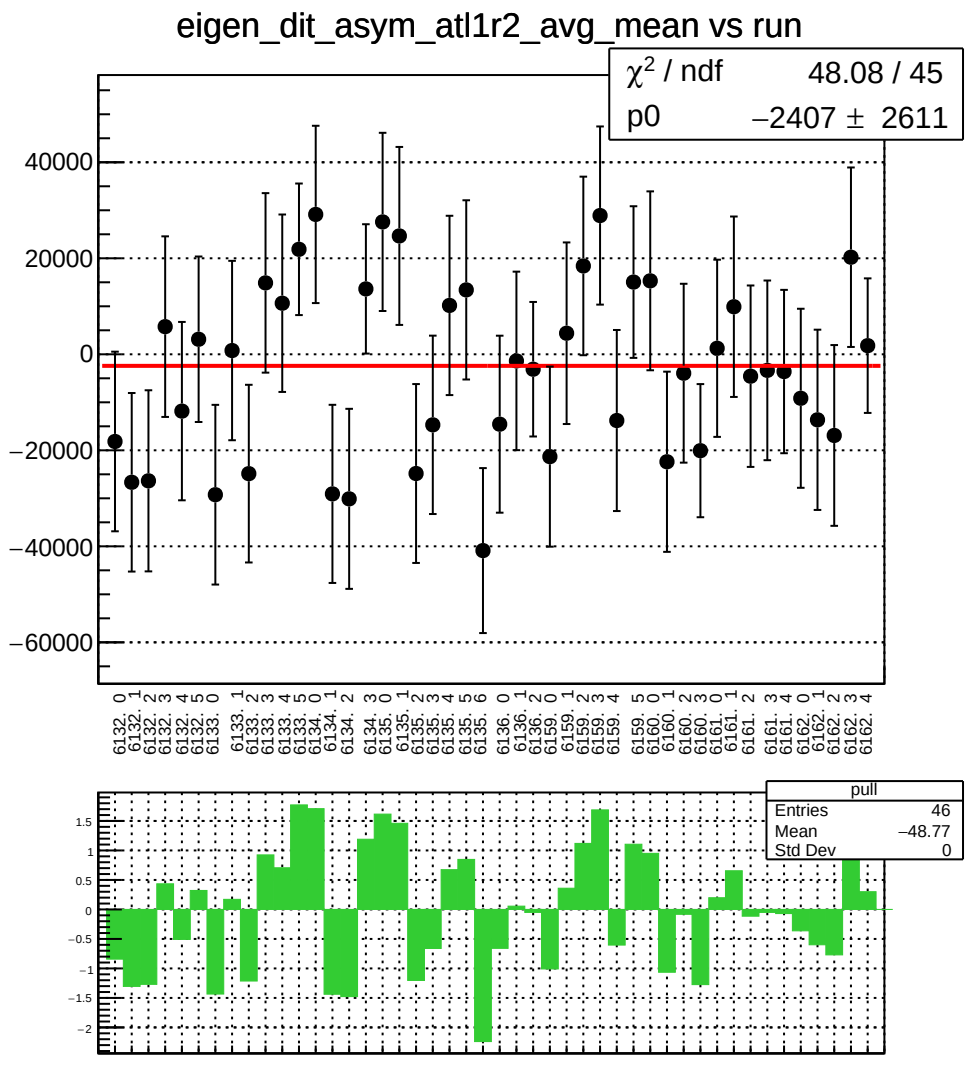

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 48.08 / 45
p0 −2407 ± 2611
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −48.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.01806
Std Dev 1.022
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

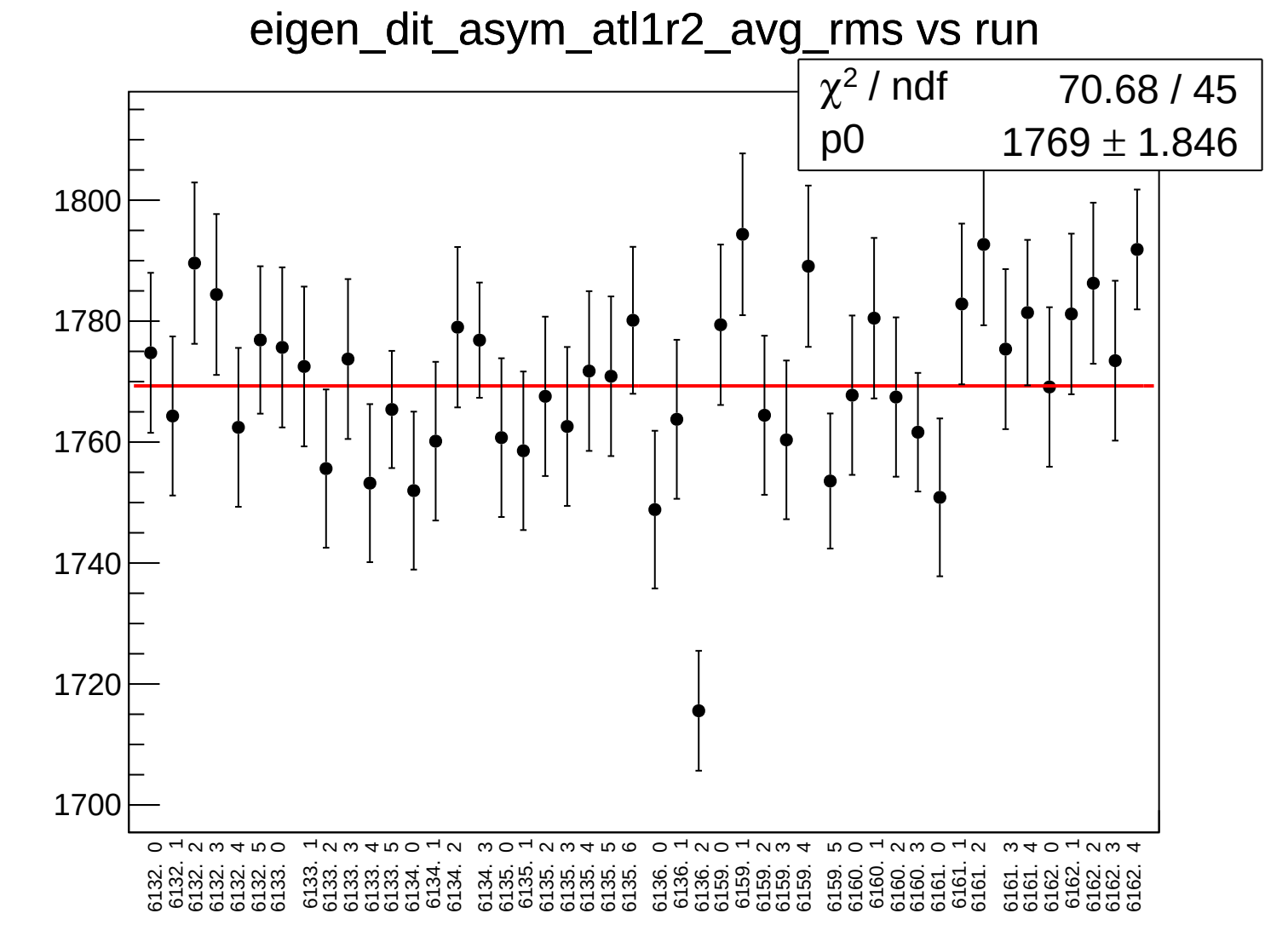

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 70.68 / 45
p0 1769 ± 1.846
1800
1780
1760
1740
1720
1700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

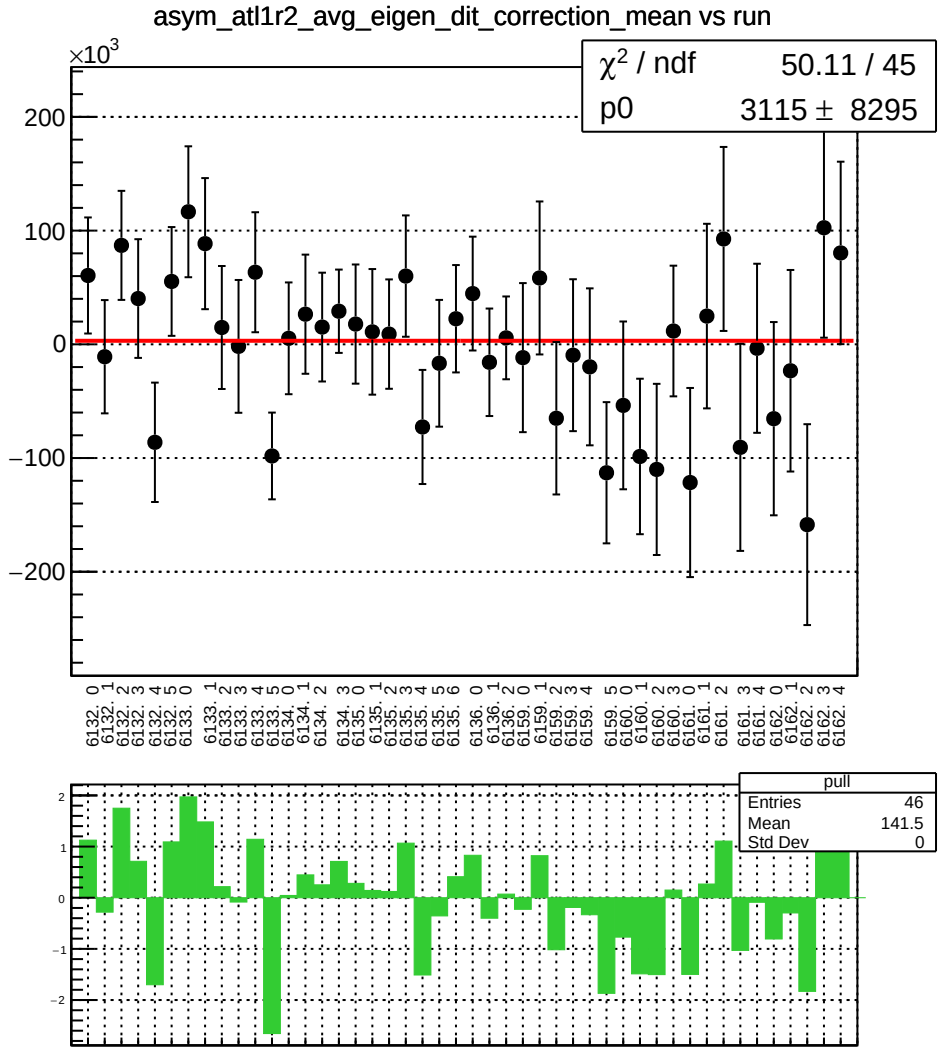

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 50.11 / 45
p0 3115 ± 8295
200
100
0
−100
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 141.5
Std Dev 0
2
1
0
−1
−2

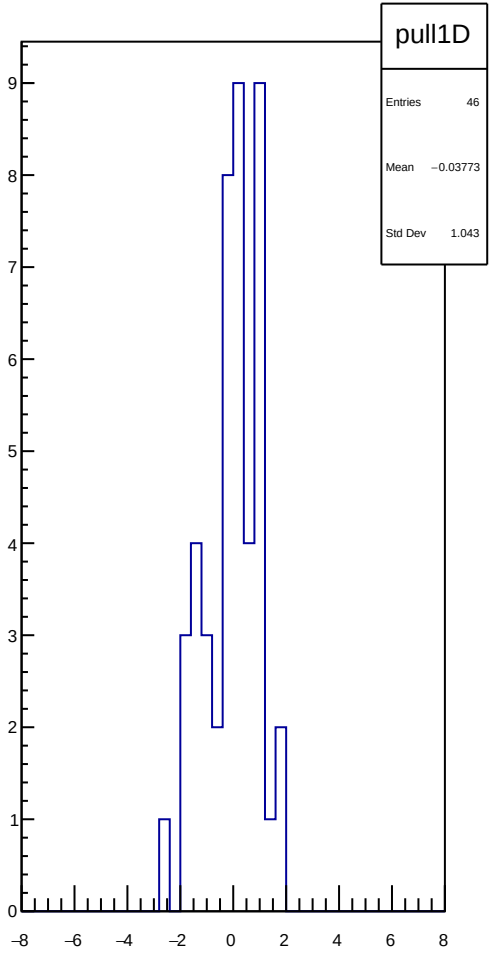

pull1D
Entries 46
Mean −0.03773
Std Dev 1.043
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

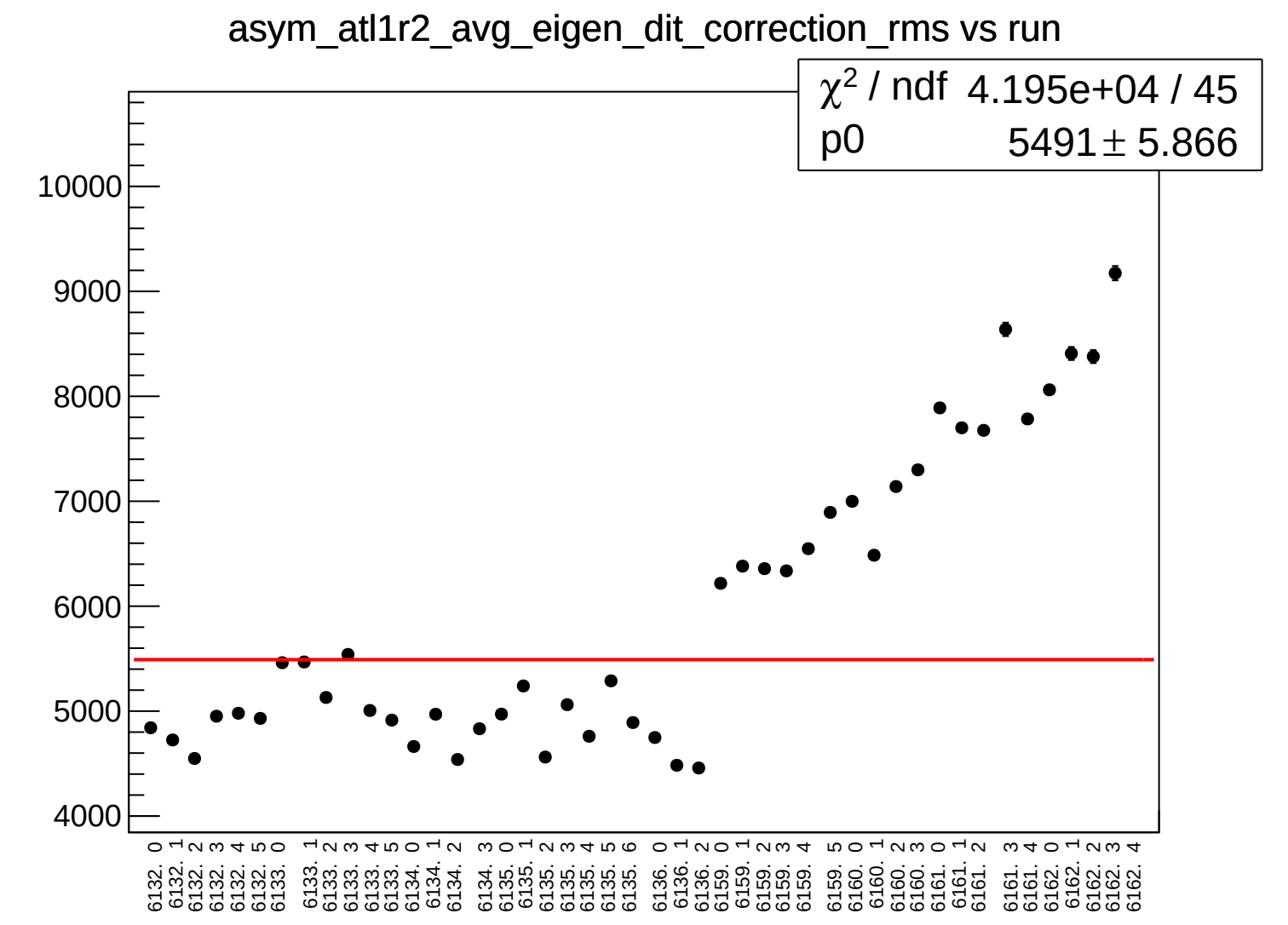

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 4.195e+04 / 45
p0 5491 ± 5.866
10000
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

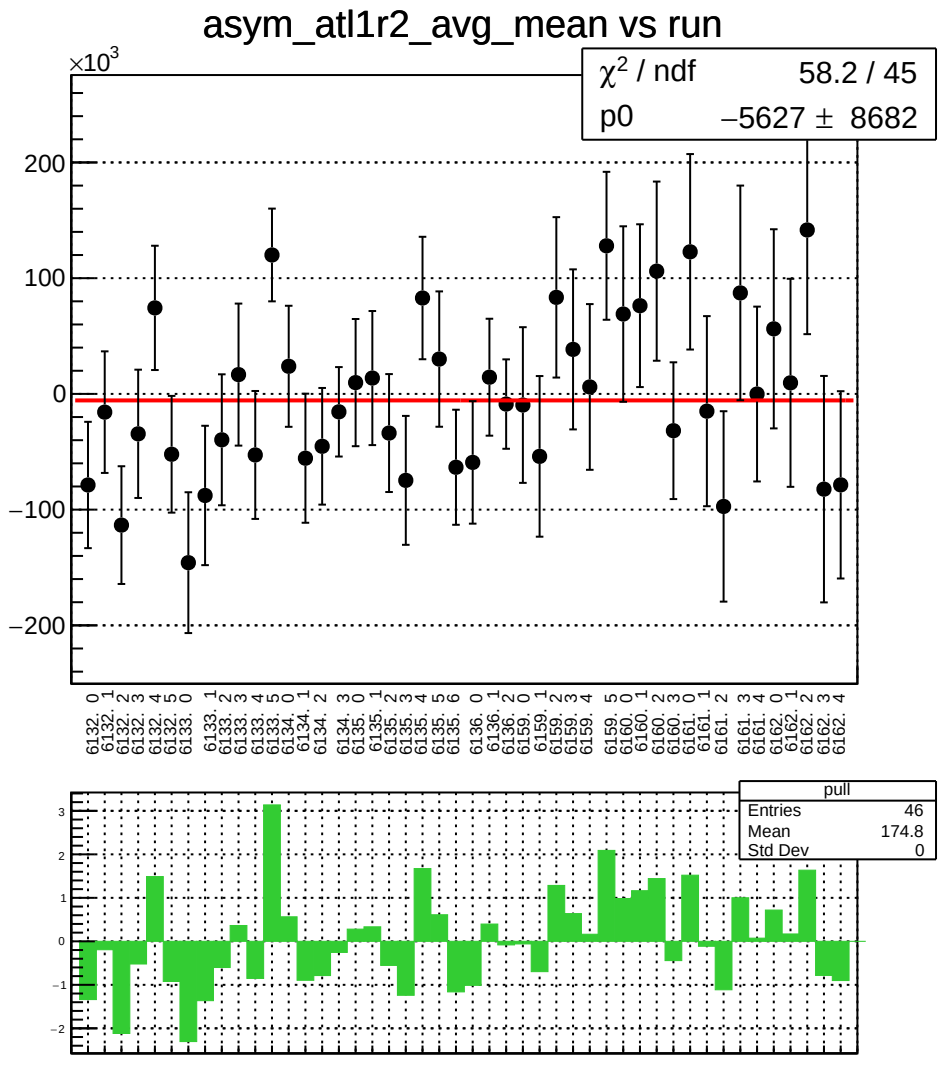

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 48.08 / 45
p0 −2407 ± 2611
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −48.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.01806
Std Dev 1.022
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

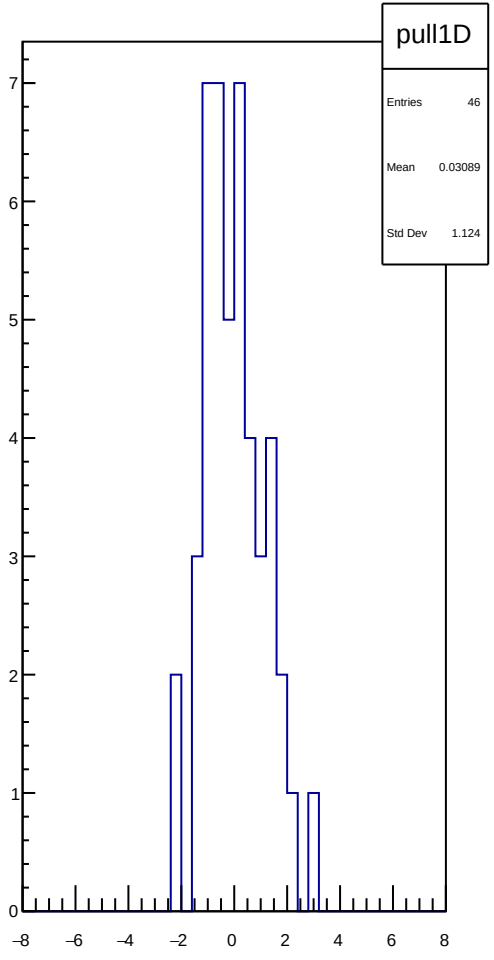

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 70.68 / 45
p0 1769 ± 1.846
1800
1780
1760
1740
1720
1700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

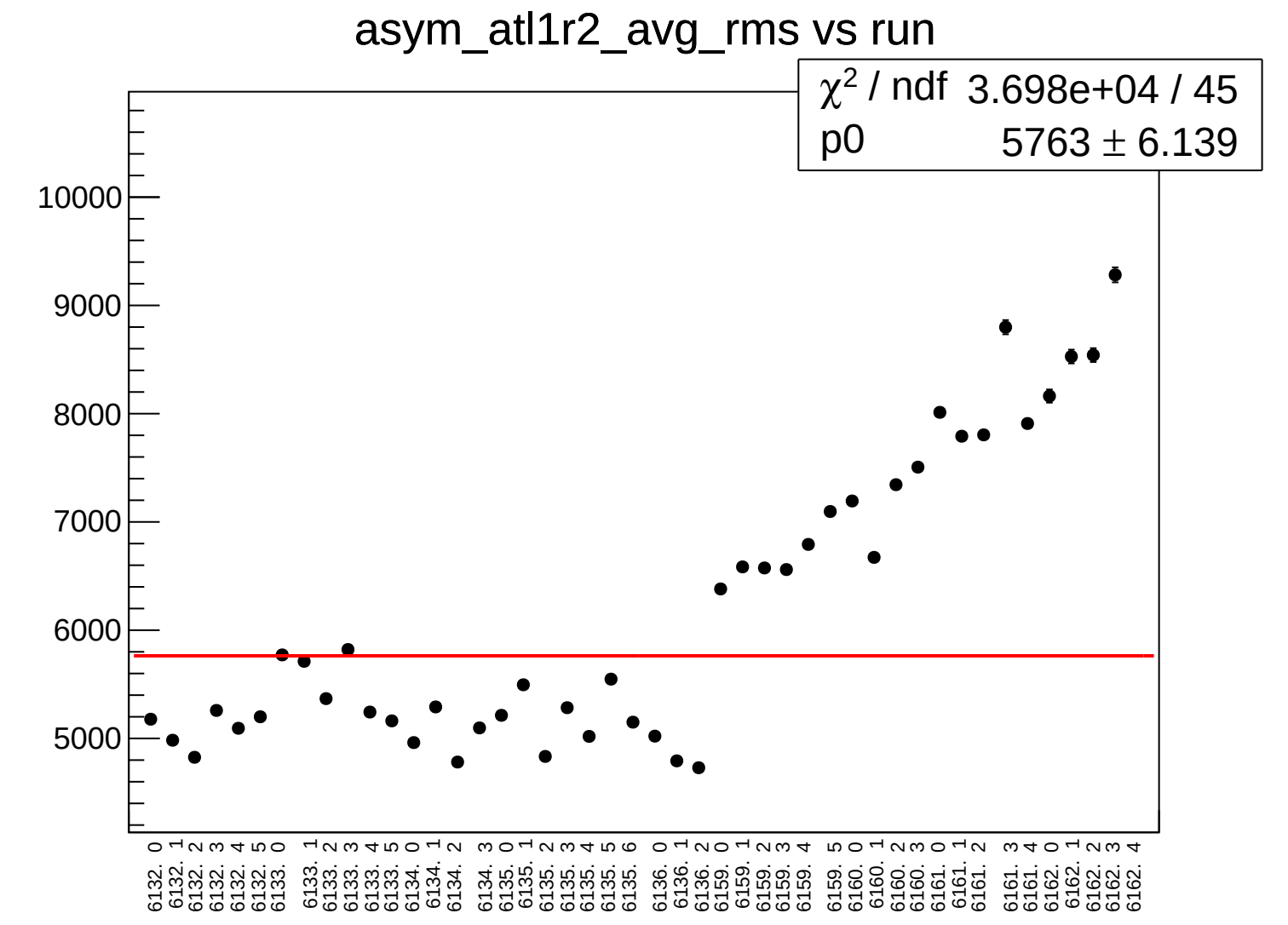

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 50.11 / 45
p0 3115 ± 8295
pull
Entries 46
Mean 141.5
Std Dev 0

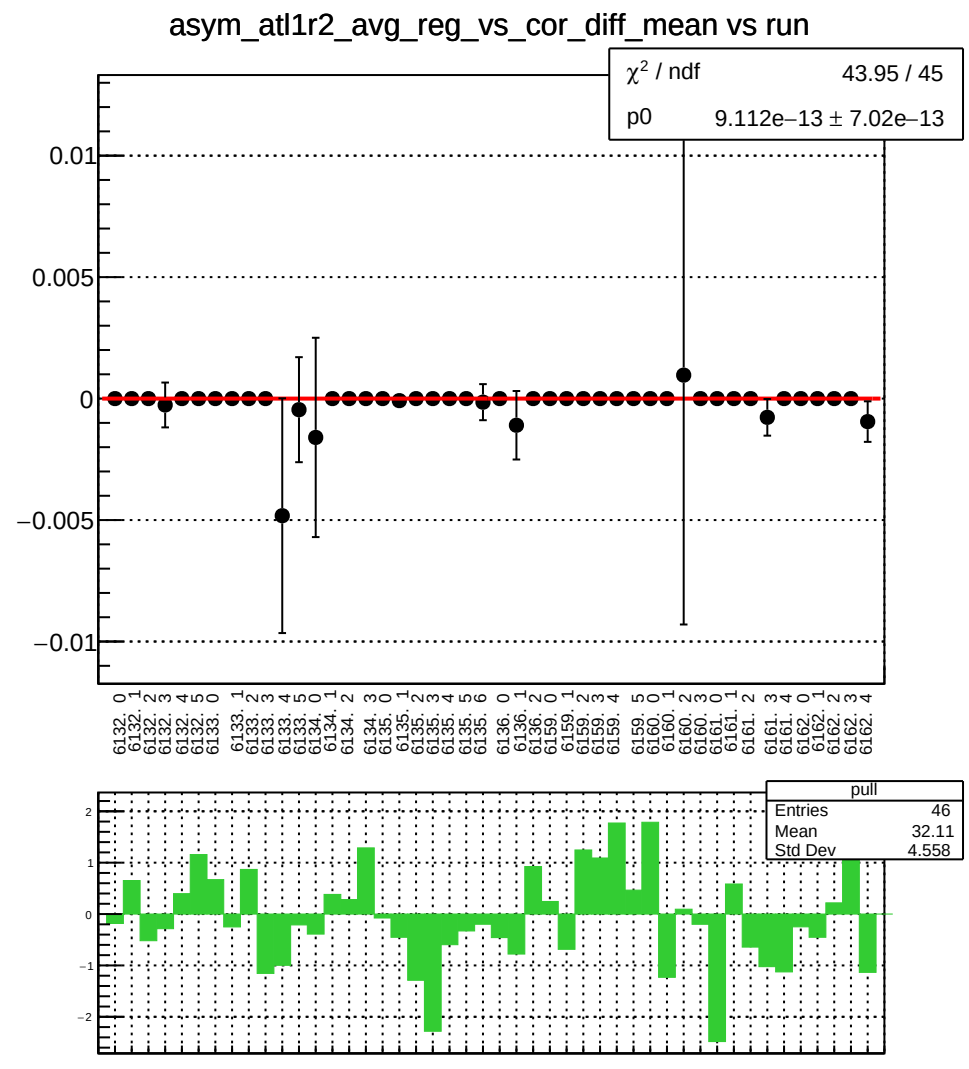

pull1D
Entries 46
Mean −0.03773
Std Dev 1.043

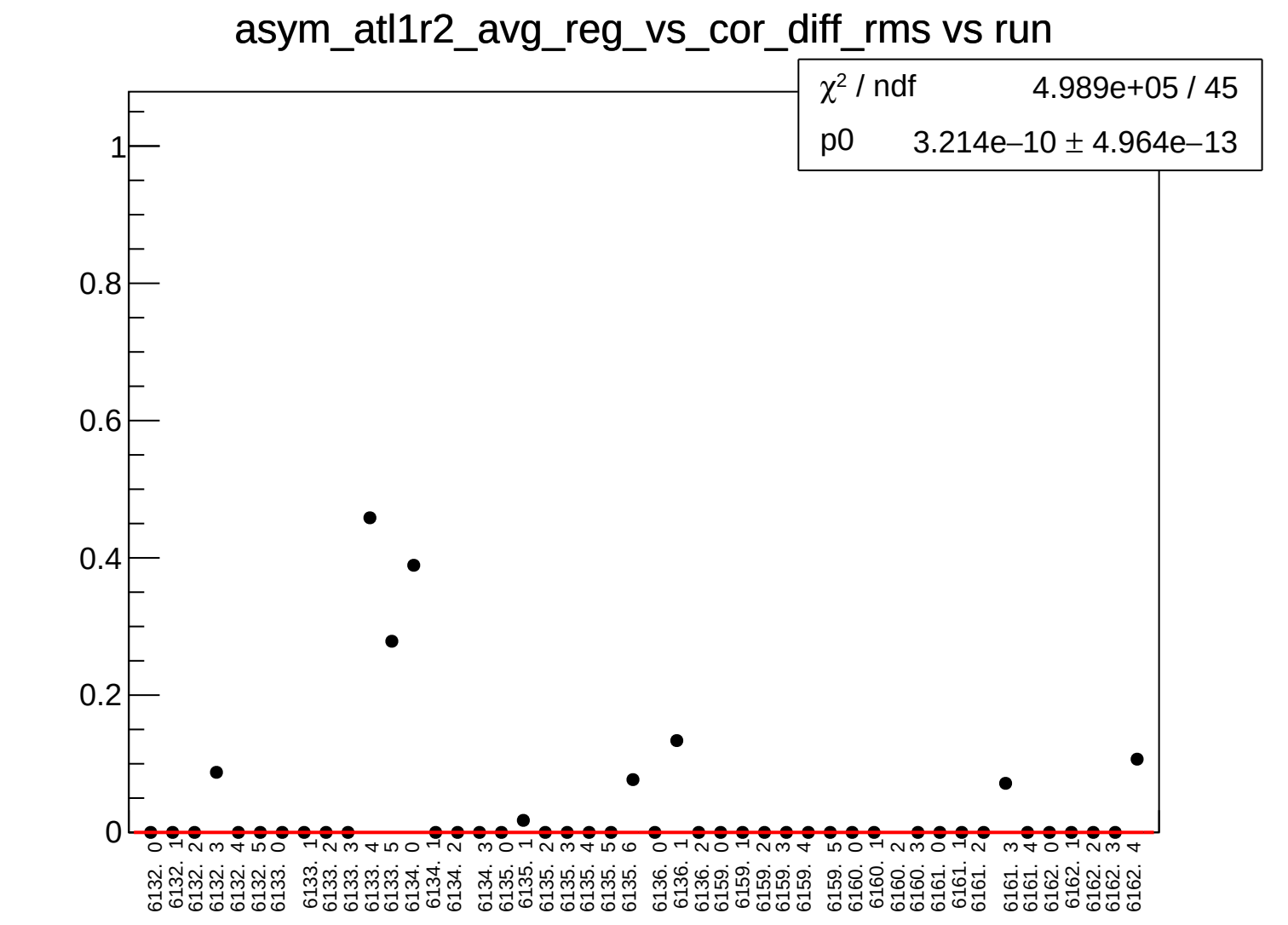

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.195e+04 / 45
p0 5491 ± 5.866
10000
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

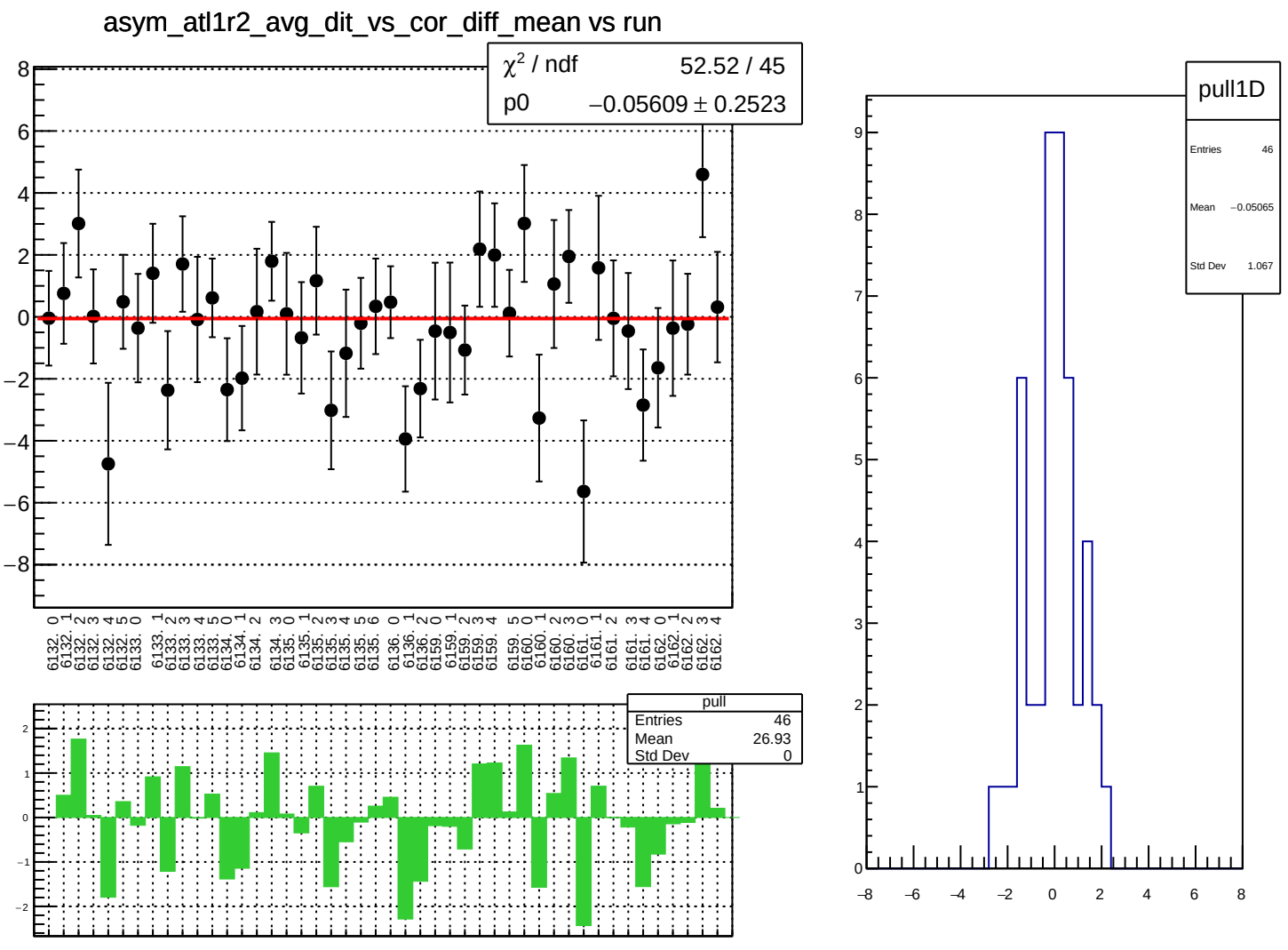

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 58.2 / 45
p0 −5627 ± 8682
200
100
0
−100
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 174.8
Std Dev 0
3
2
1
0
−1
−2

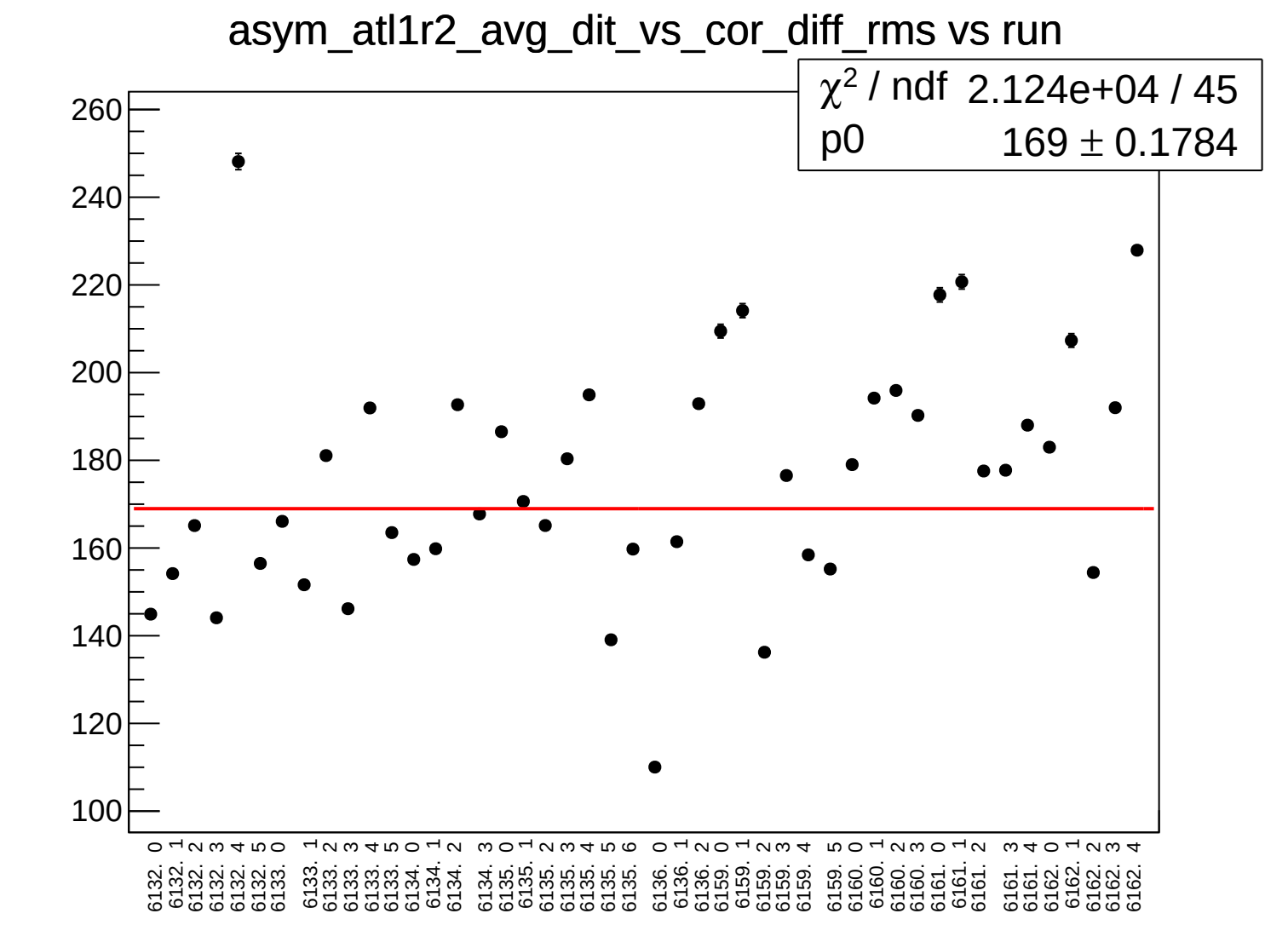

pull1D
Entries 46
Mean 0.03089
Std Dev 1.124
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

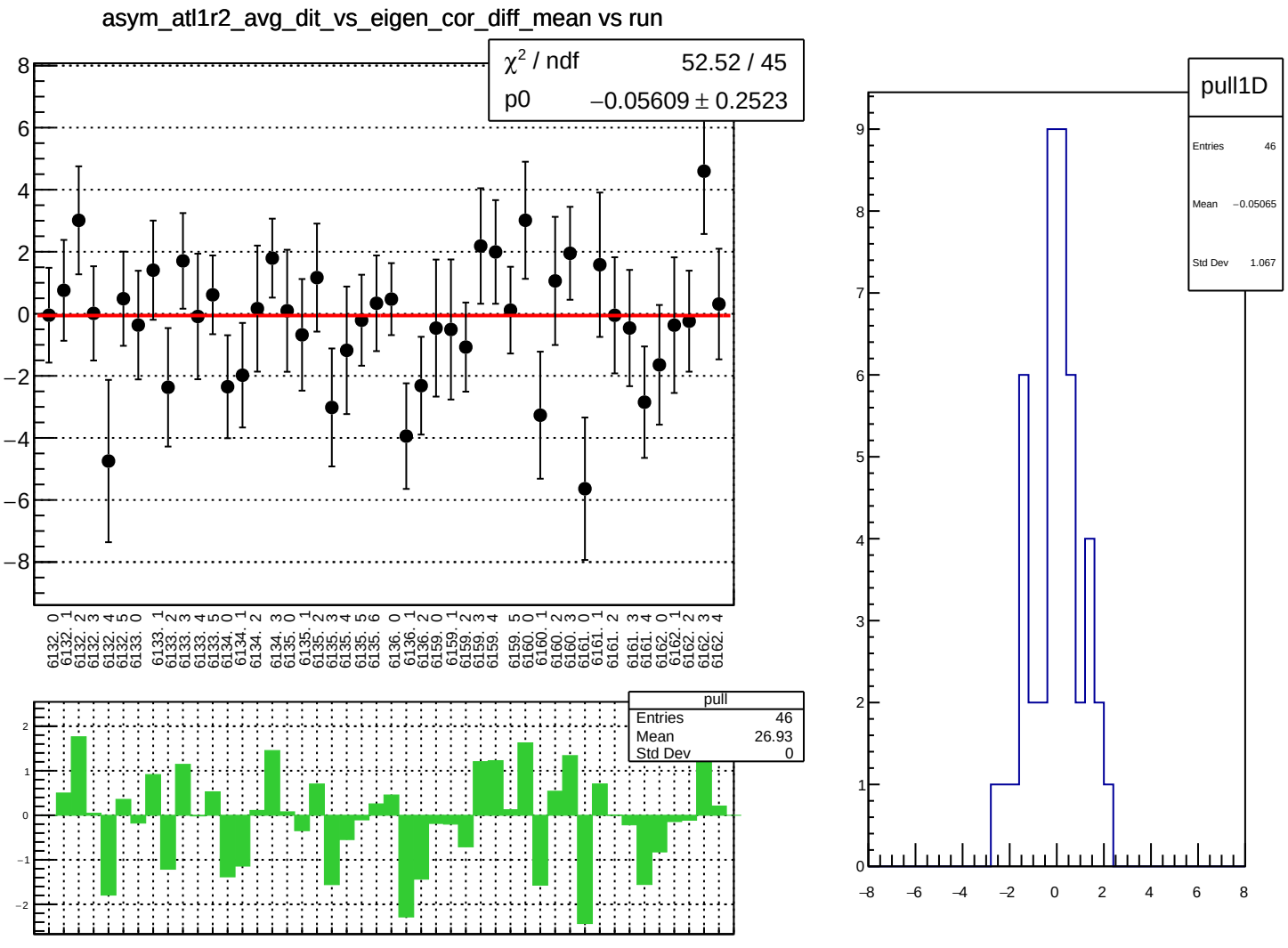

asym_atl1r2_avg_rms vs run
χ² / ndf 3.698e+04 / 45
p0 5763 ± 6.139
10000
9000
8000
7000
6000
5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

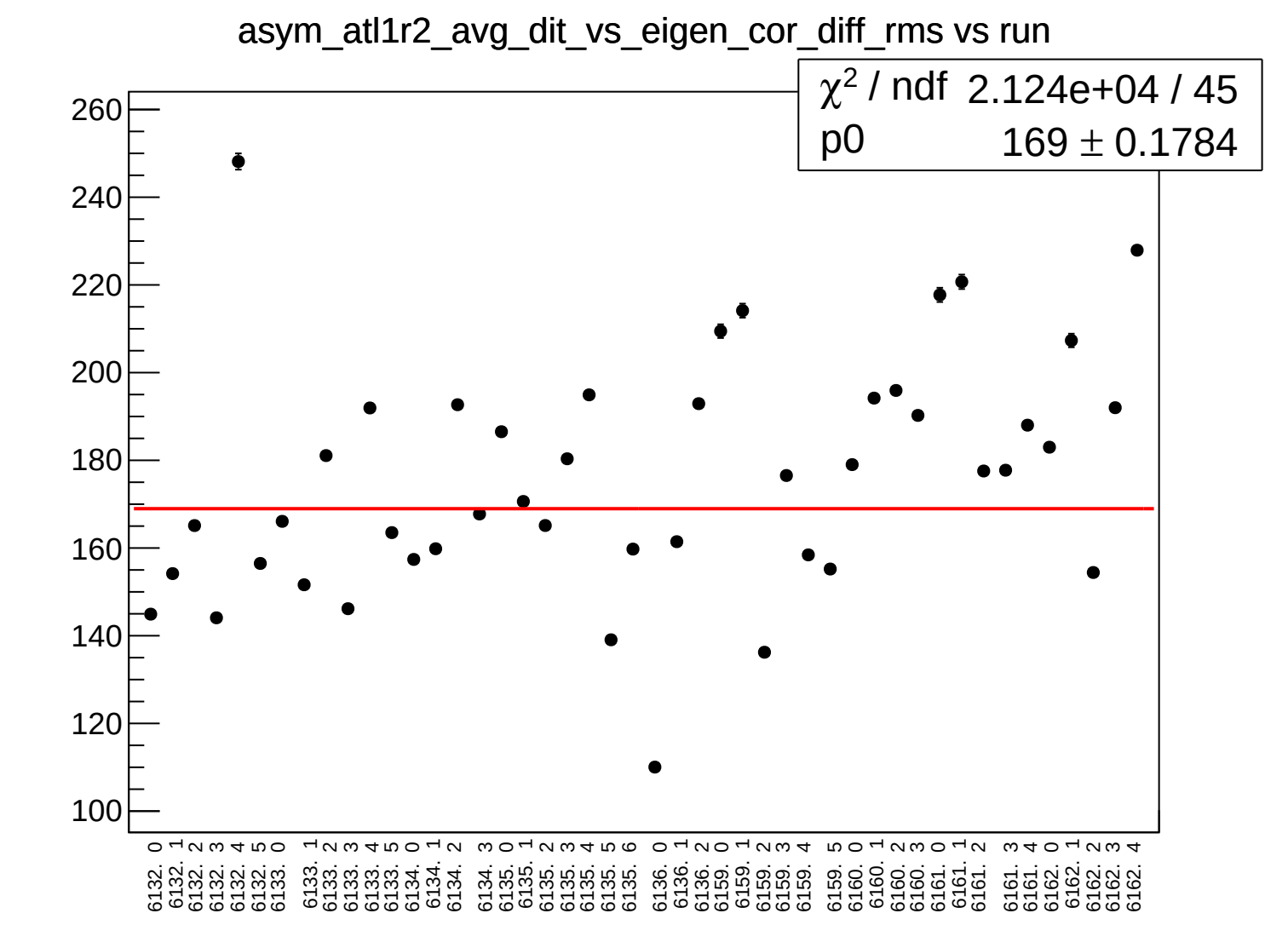

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 43.95 / 45
p0 9.112e−13 ± 7.02e−13
0.01
0.005
0
−0.005
−0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 32.11
Std Dev 4.558
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.07442
Std Dev 0.9746
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

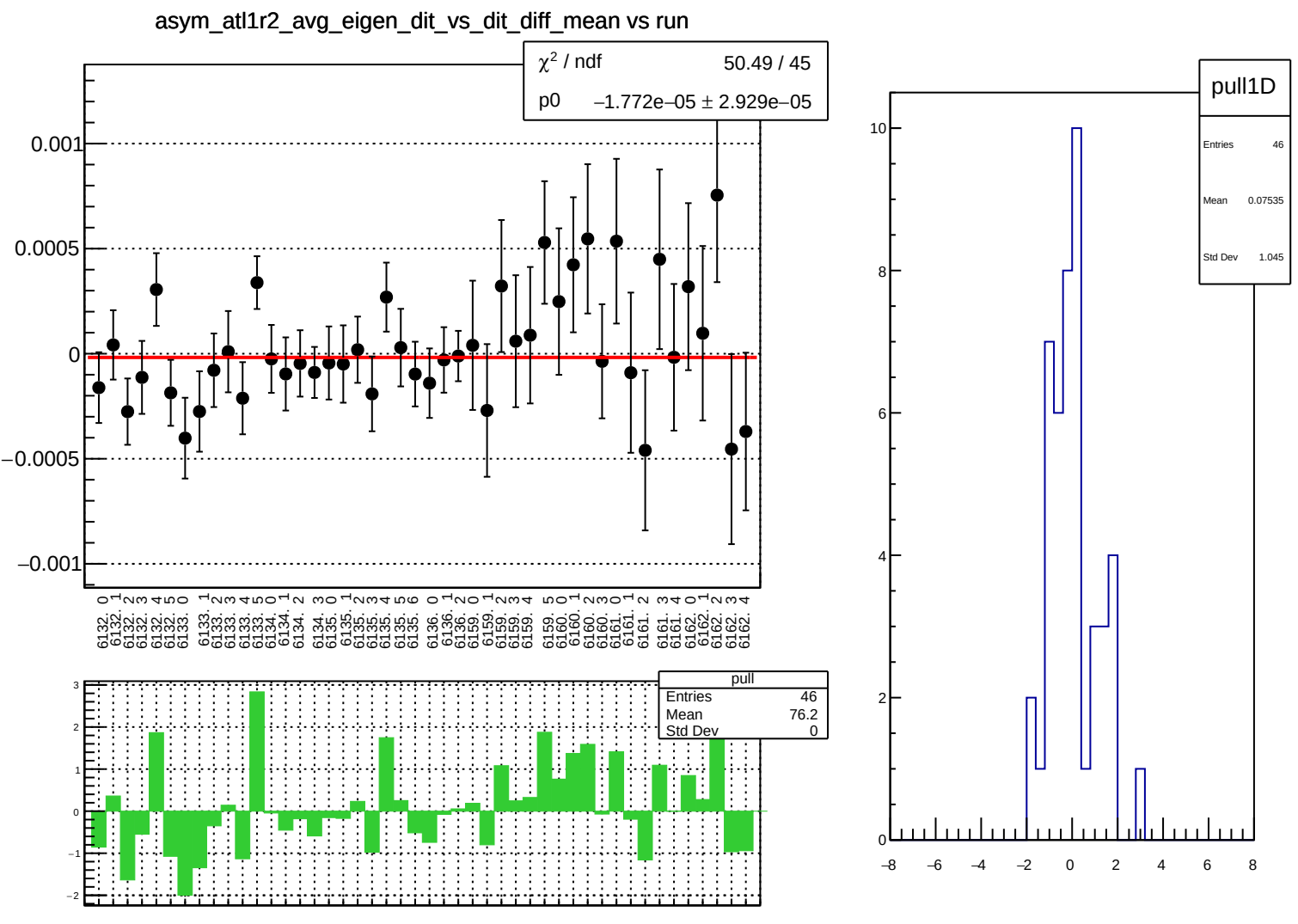

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.989e+05 / 45
p0 3.214e−10 ± 4.964e−13
1
0.8
0.6
0.4
0.2
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

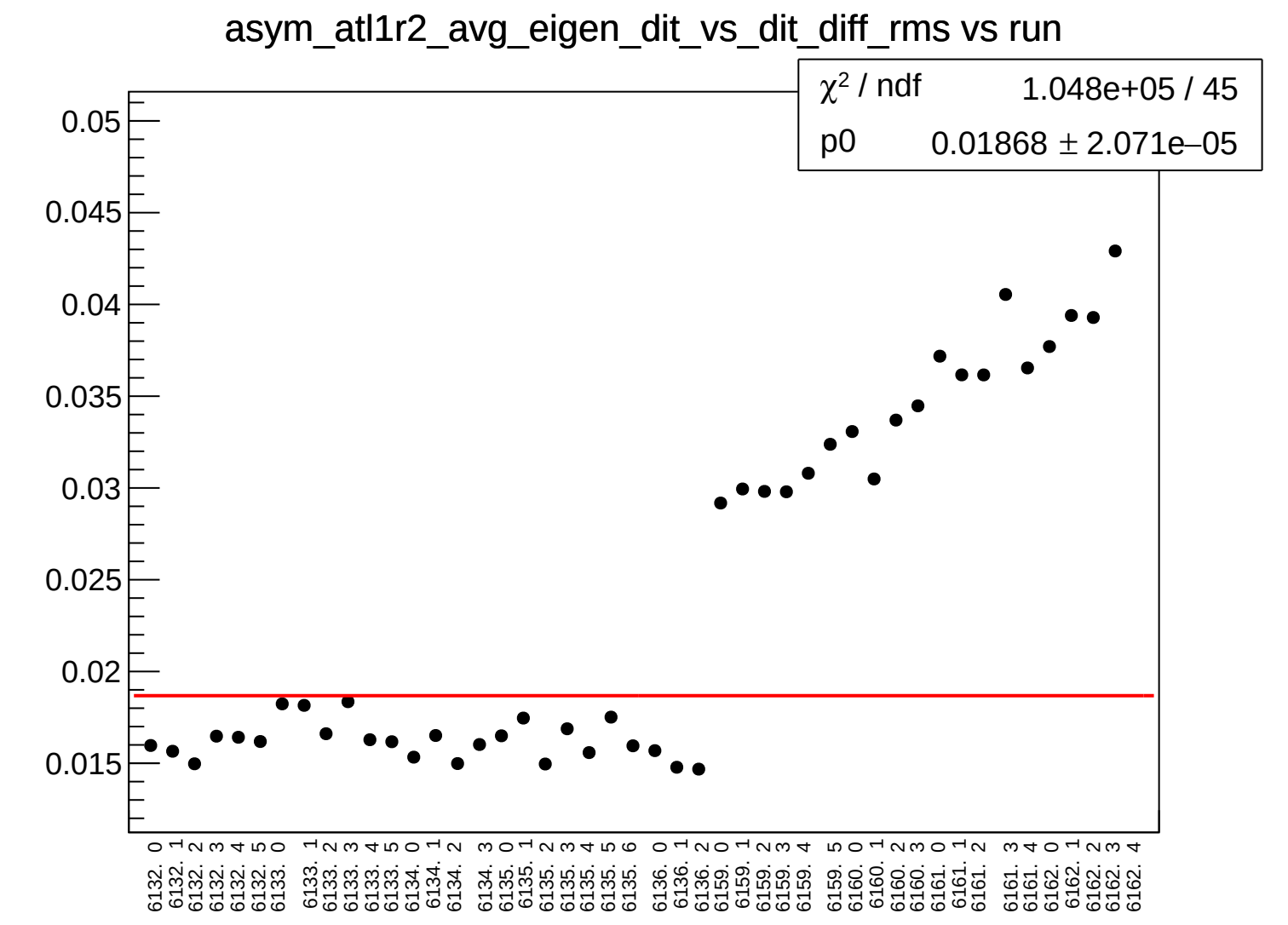

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 52.52 / 45
p0 −0.05609 ± 0.2523
pull
Entries 46
Mean 26.93
Std Dev 0
pull1D
Entries 46
Mean −0.05065
Std Dev 1.067

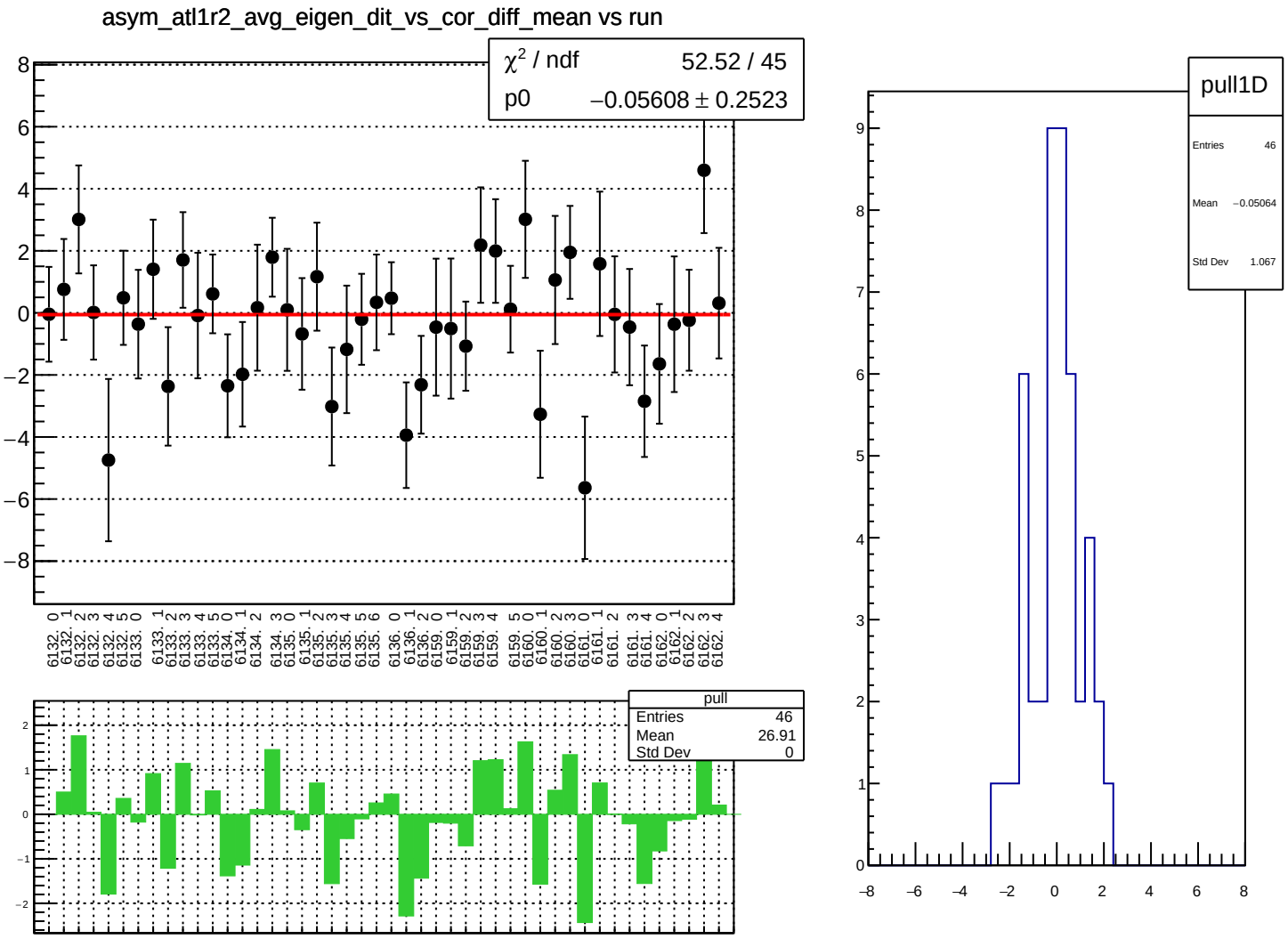

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.124e+04 / 45
p0 169 ± 0.1784
260
240
220
200
180
160
140
120
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

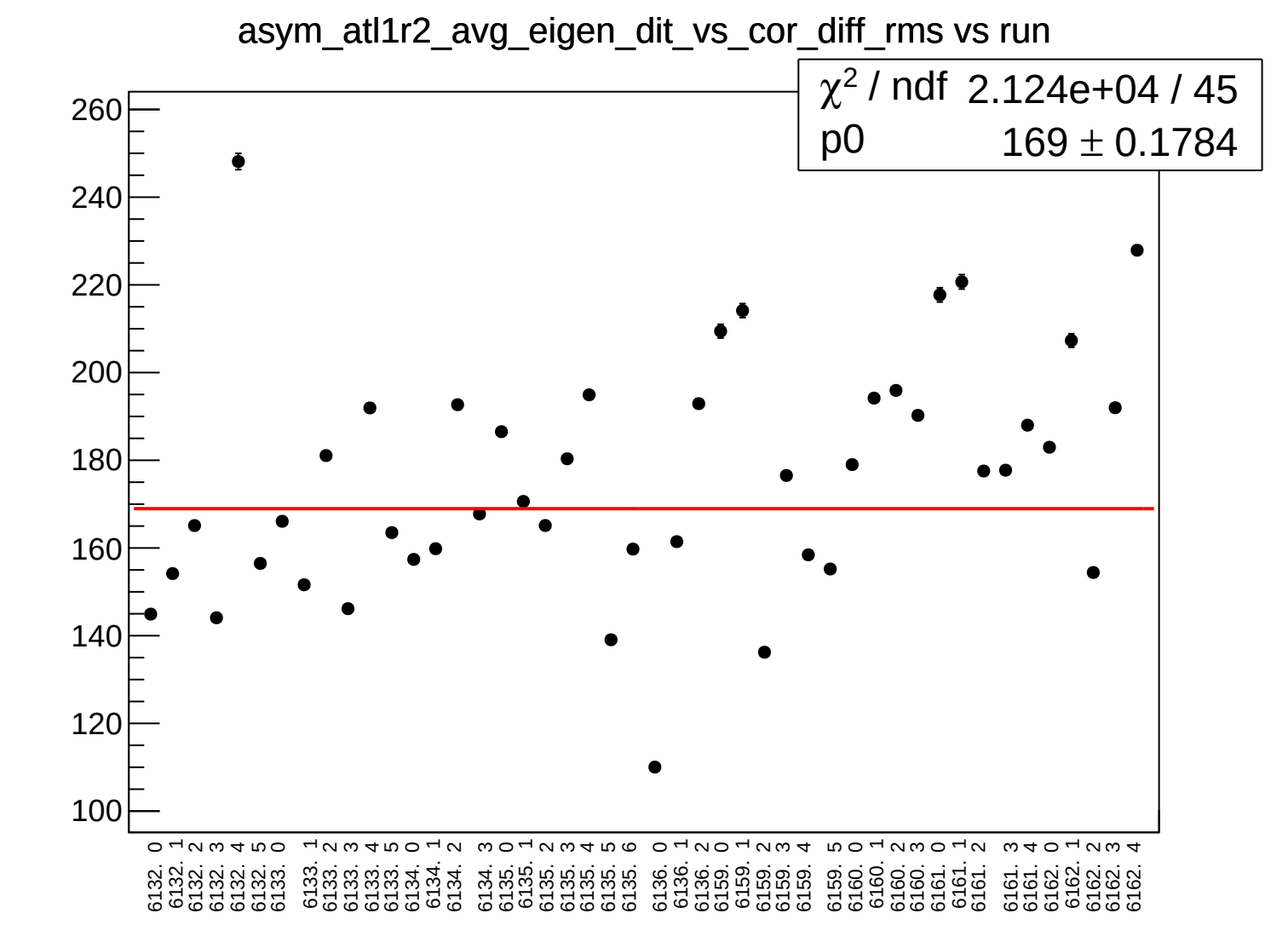

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.52 / 45
p0 −0.05609 ± 0.2523
pull
Entries 46
Mean 26.93
Std Dev 0
pull1D
Entries 46
Mean −0.05065
Std Dev 1.067

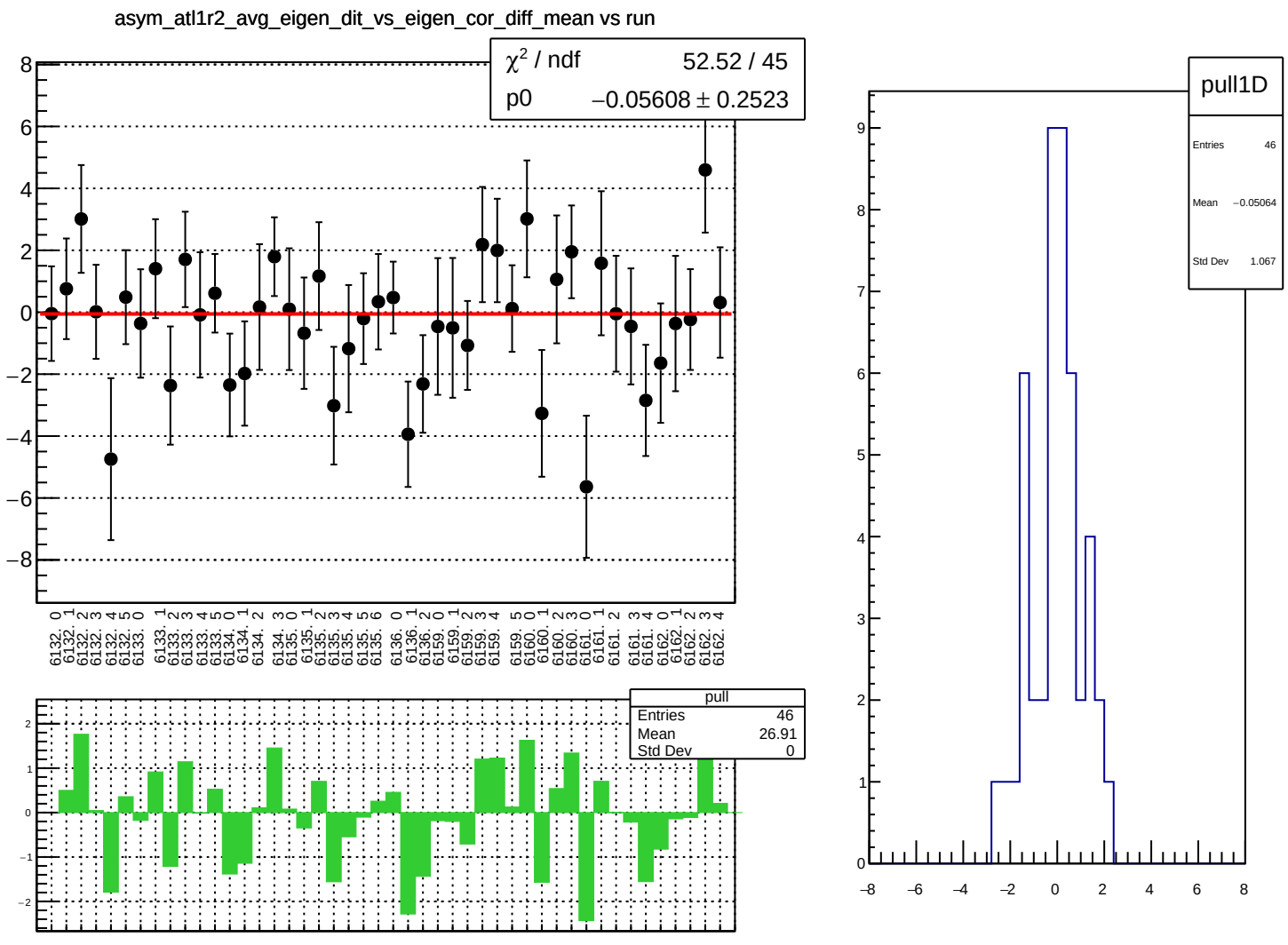

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.124e+04 / 45
p0 169 ± 0.1784
260
240
220
200
180
160
140
120
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

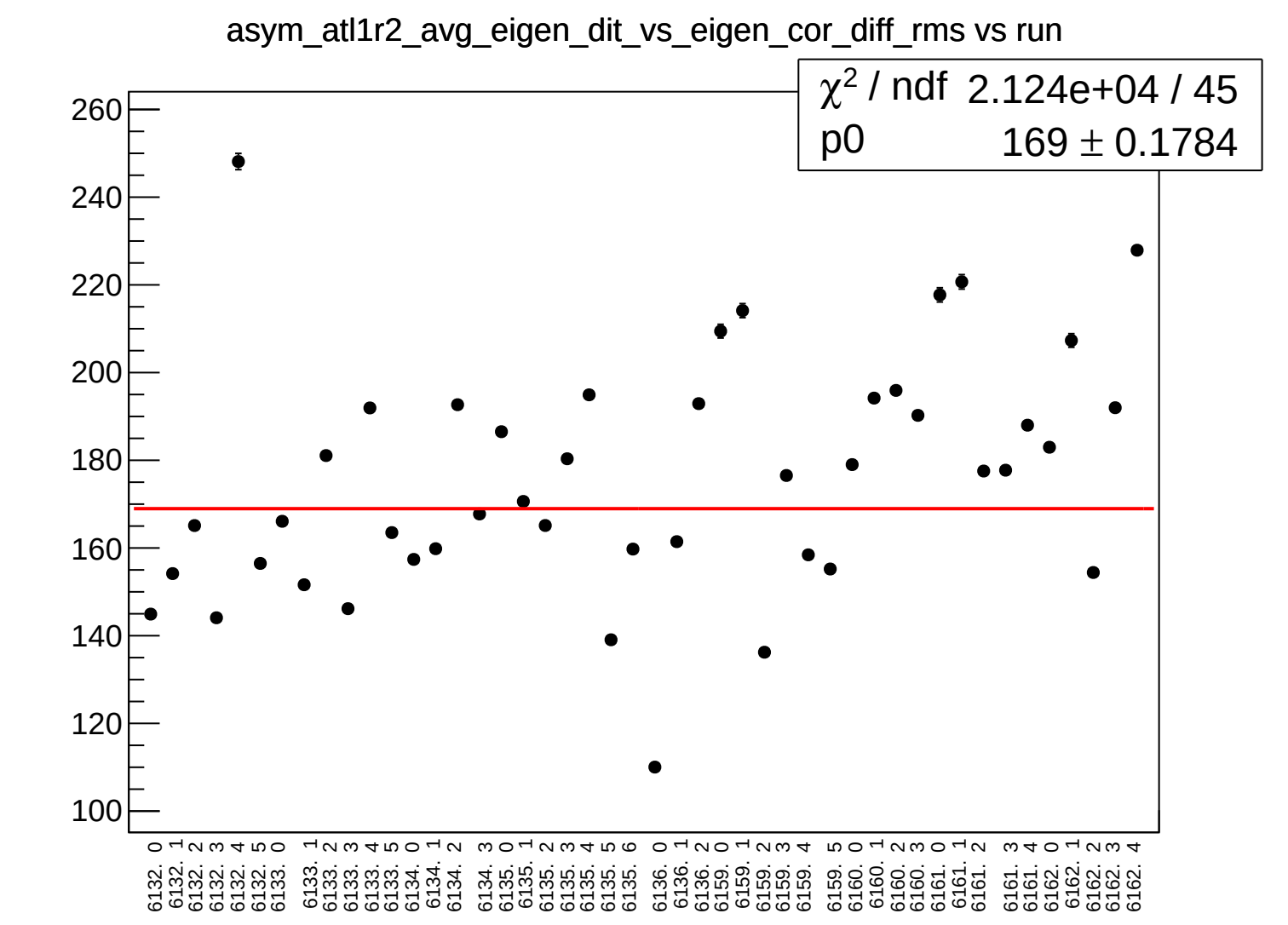

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 50.49 / 45
p0 −1.772e−05 ± 2.929e−05
0.001
0.0005
0
−0.0005
−0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 76.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.07535
Std Dev 1.045
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

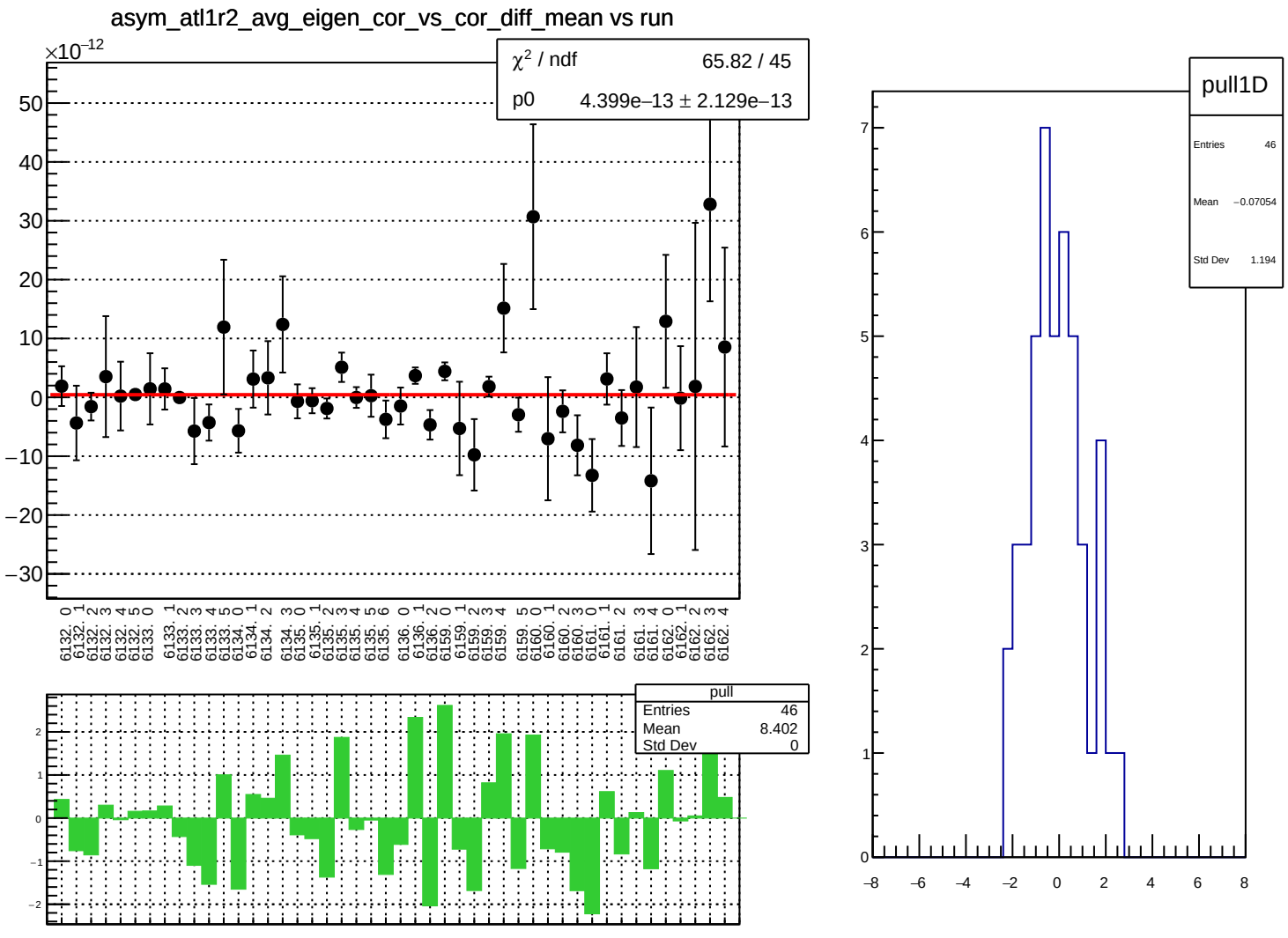

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.048e+05 / 45
p0 0.01868 ± 2.071e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

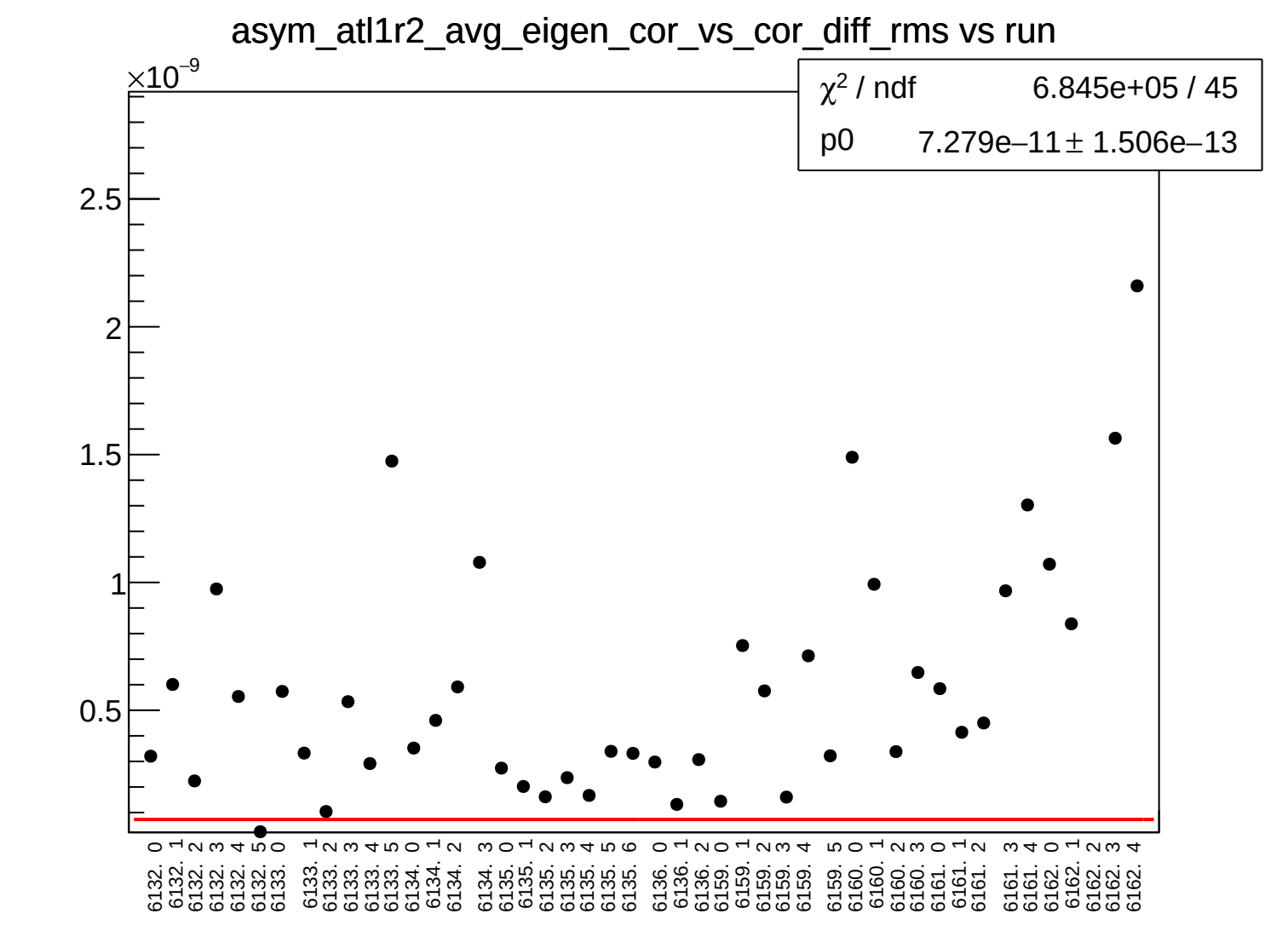

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 52.52 / 45
p0 −0.05608 ± 0.2523
pull
Entries 46
Mean 26.91
Std Dev 0
pull1D
Entries 46
Mean −0.05064
Std Dev 1.067

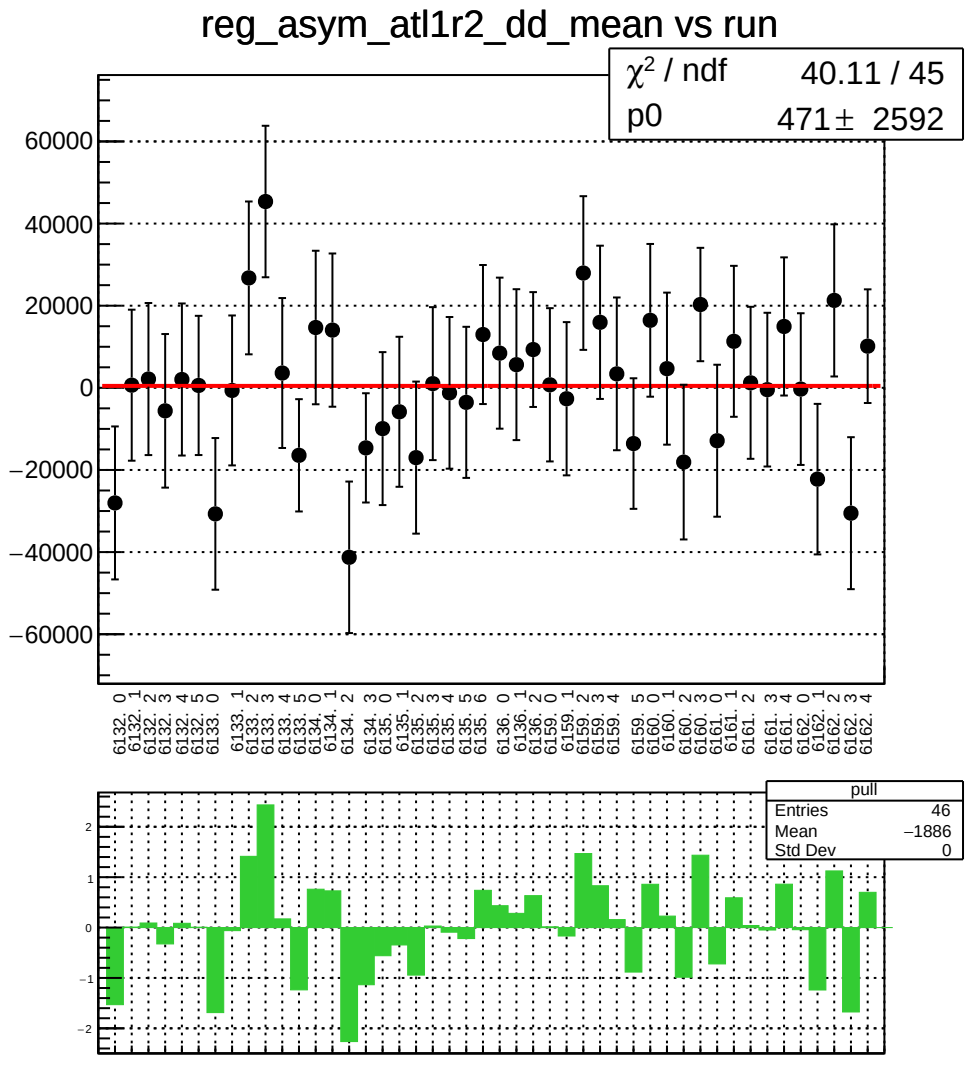

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.124e+04 / 45
p0 169 ± 0.1784
260
240
220
200
180
160
140
120
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

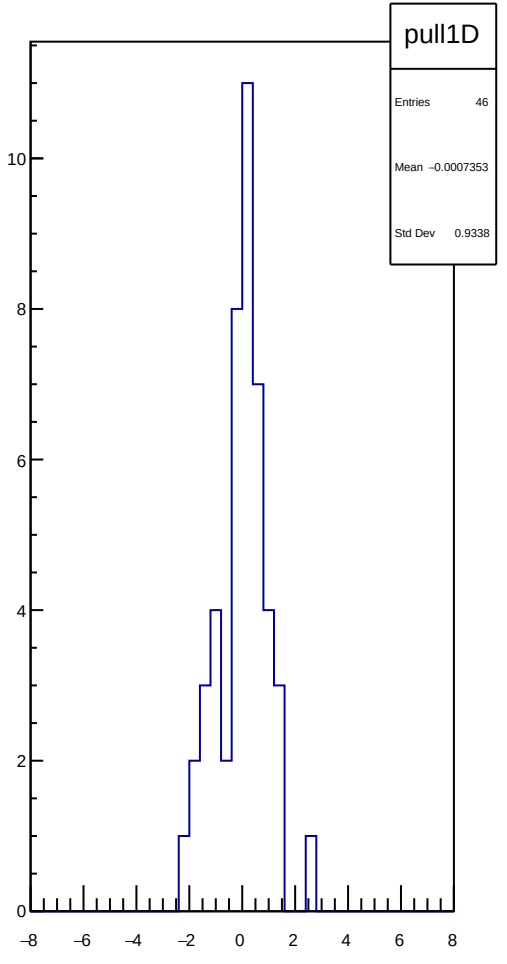

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.52 / 45
p0 −0.05608 ± 0.2523
pull
Entries 46
Mean 26.91
Std Dev 0
pull1D
Entries 46
Mean −0.05064
Std Dev 1.067

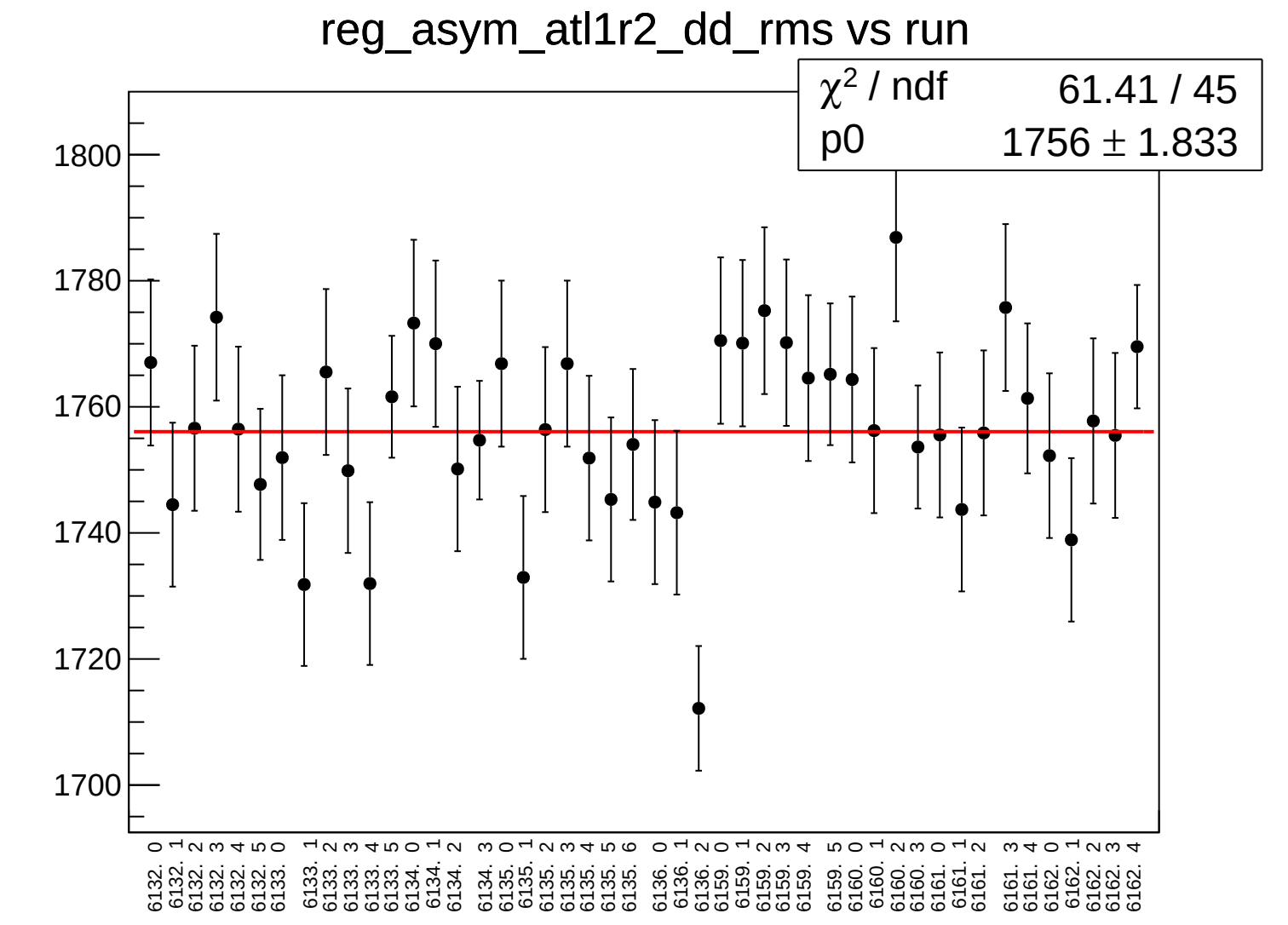

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.124e+04 / 45
p0 169 ± 0.1784
260
240
220
200
180
160
140
120
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

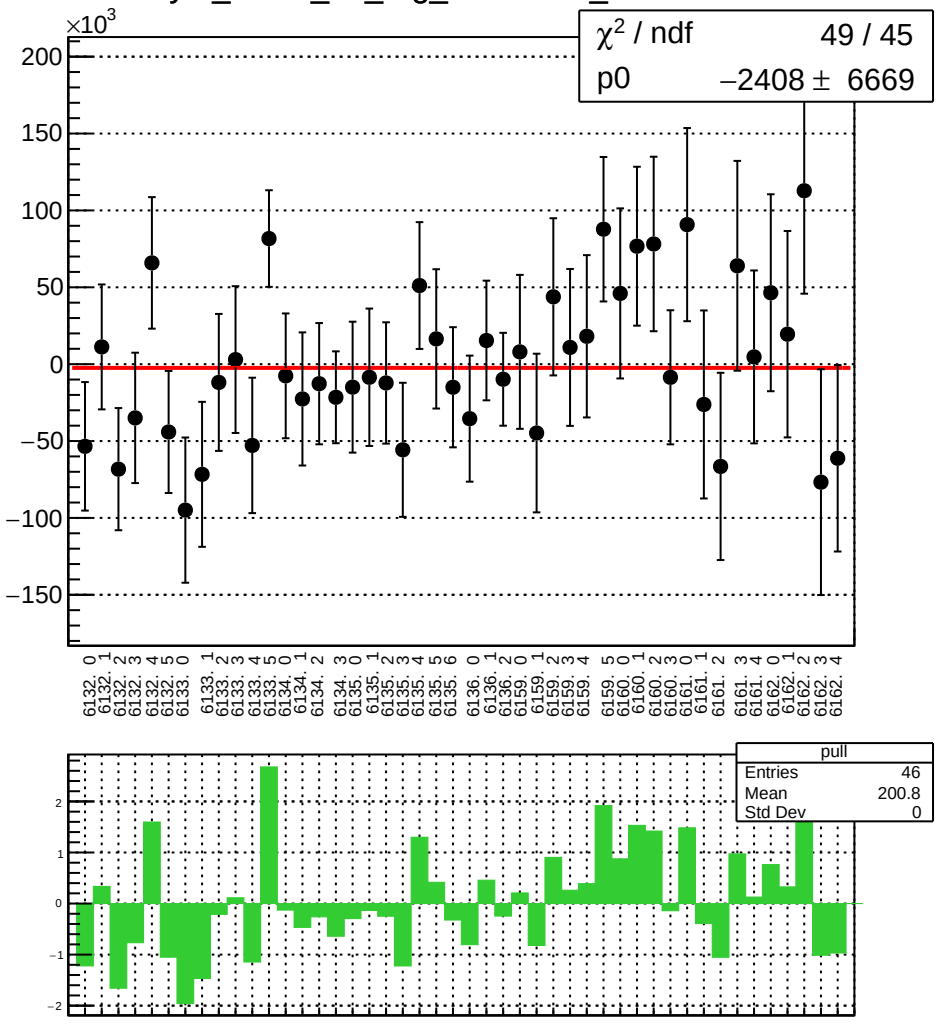

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.82 / 45
p0 4.399e−13 ± 2.129e−13
50
40
30
20
10
0
−10
−20
−30
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 8.402
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.07054
Std Dev 1.194
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

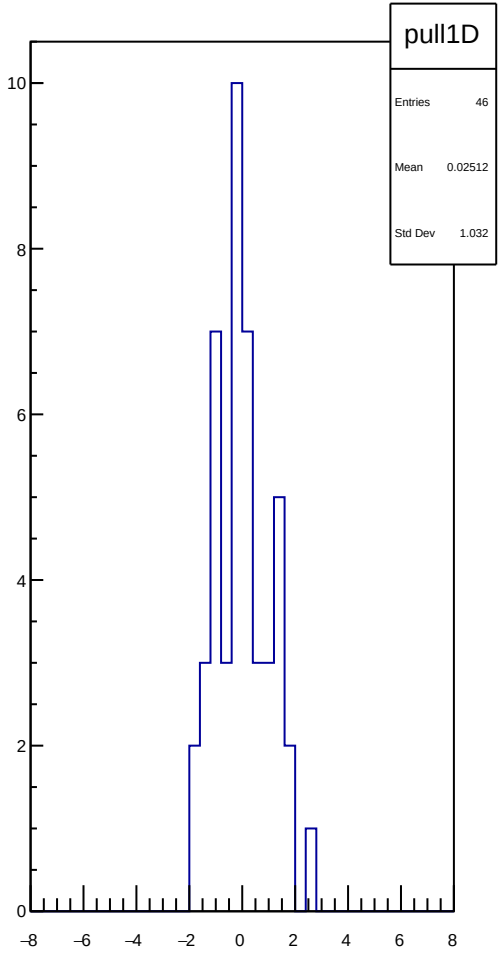

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.845e+05 / 45
p0 7.279e−11 ± 1.506e−13
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

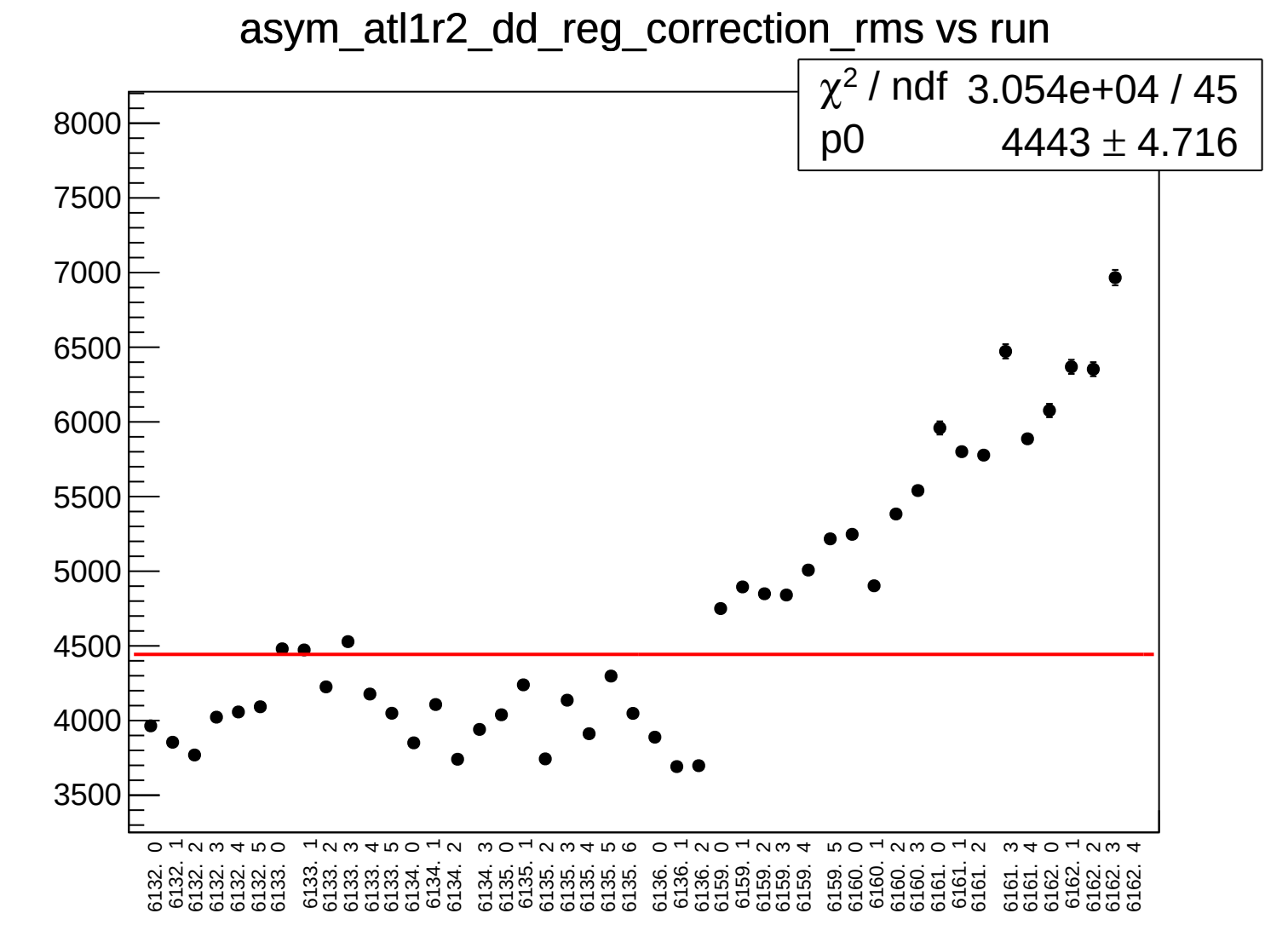

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 40.11 / 45
p0 471 ± 2592
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1886
Std Dev 0
2
1
0
−1
−2

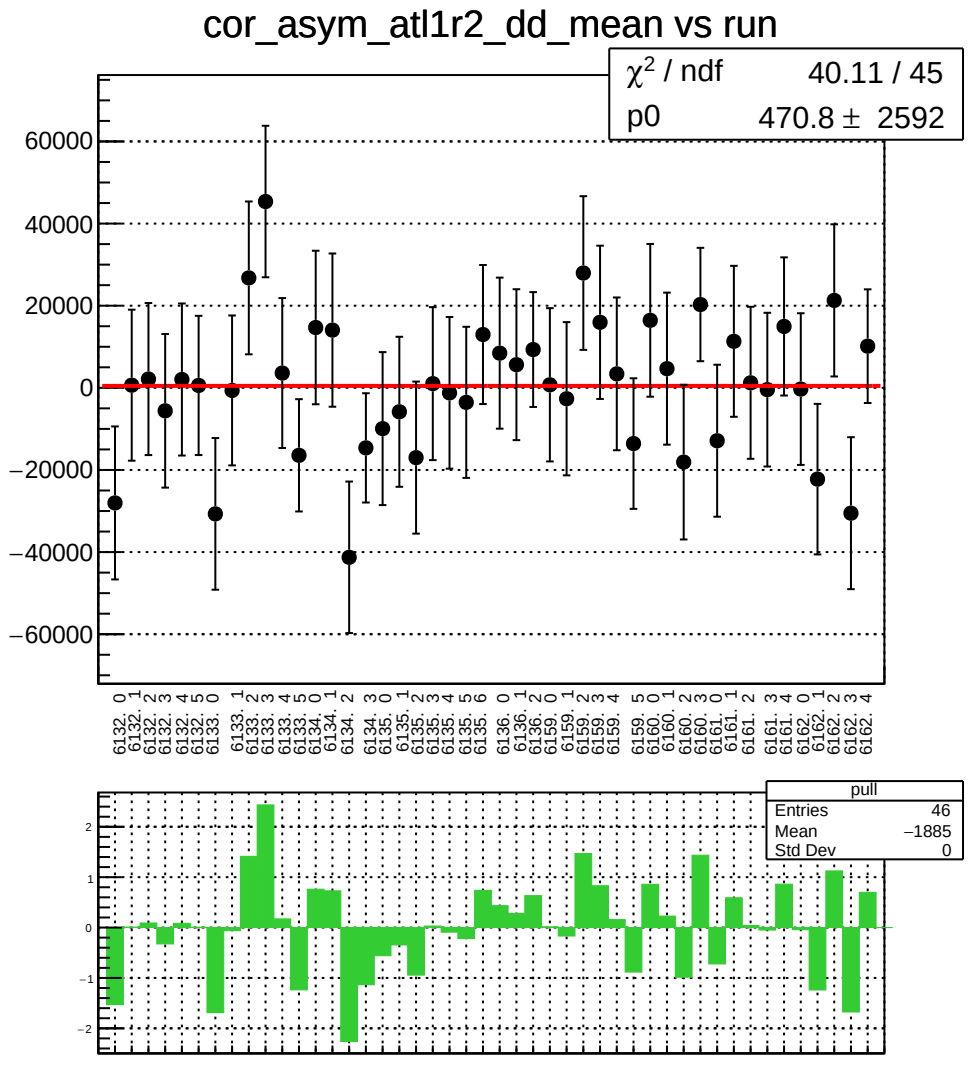

pull1D
Entries 46
Mean −0.0007353
Std Dev 0.9338
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

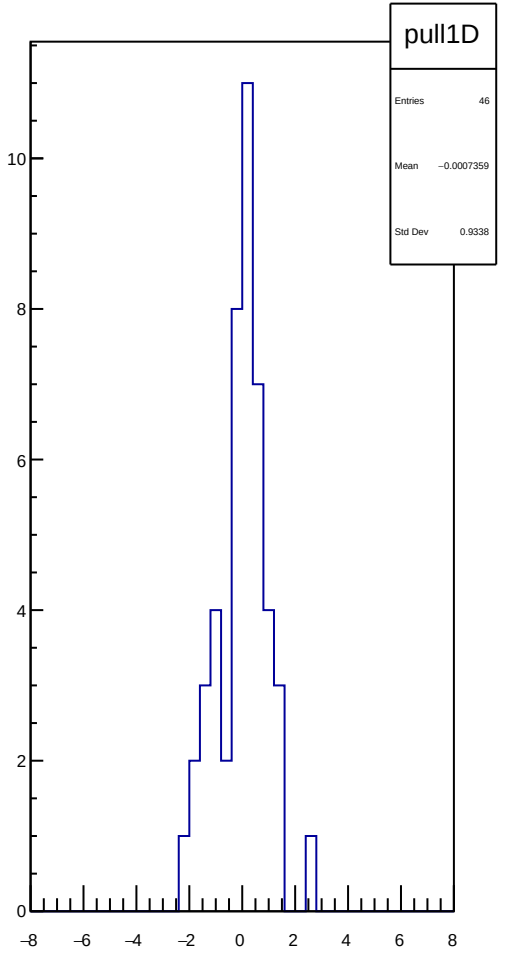

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 61.41 / 45
p0 1756 ± 1.833
1800
1780
1760
1740
1720
1700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

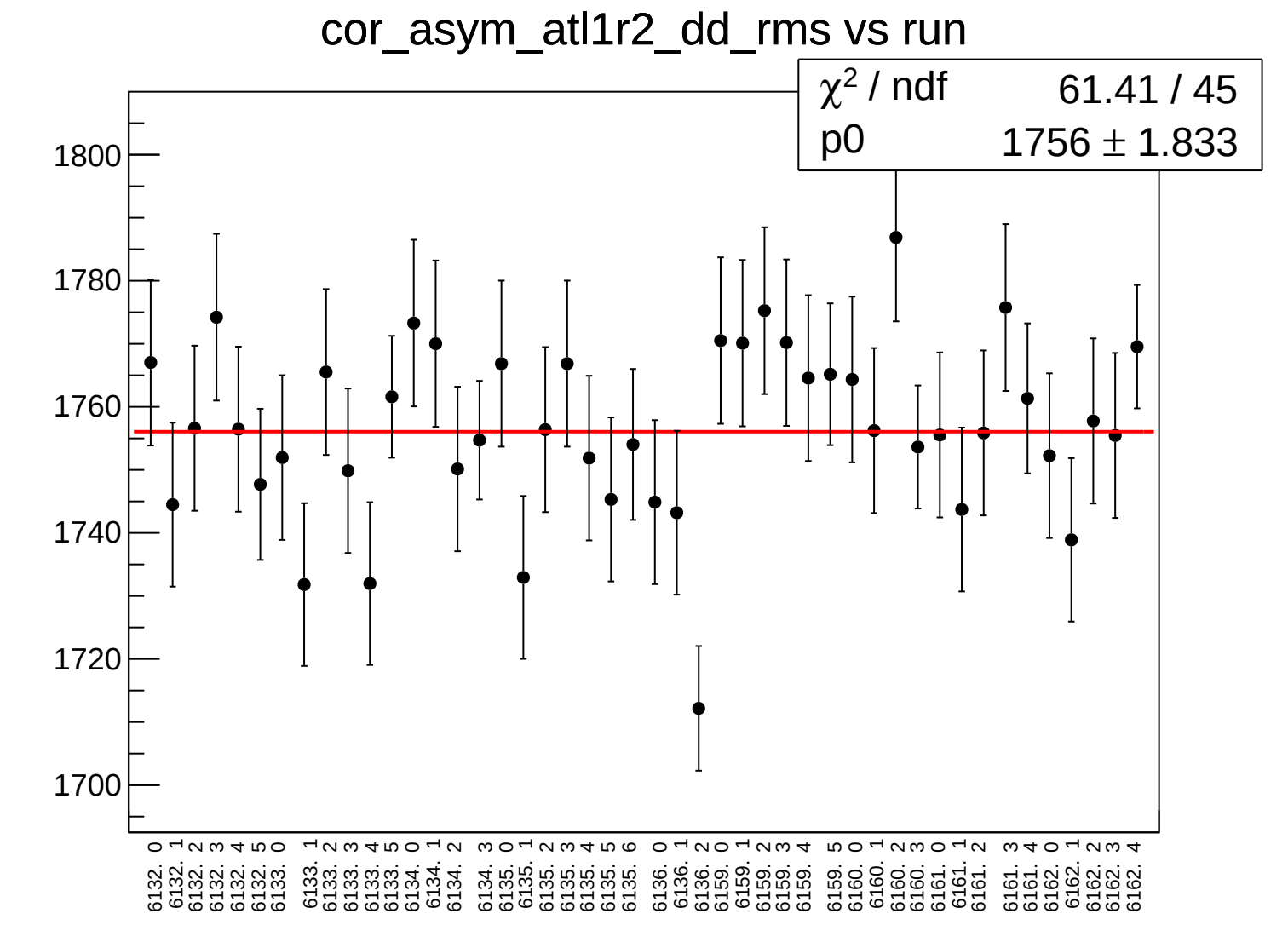

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 49 / 45
p0 −2408 ± 6669
pull
Entries 46
Mean 200.8
Std Dev 0


pull1D
Entries 46
Mean 0.02512
Std Dev 1.032


asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 3.054e+04 / 45
p0 4443 ± 4.716
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_atl1r2_dd_mean vs run
χ² / ndf 40.11 / 45
p0 470.8 ± 2592
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1885
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.0007359
Std Dev 0.9338
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl1r2_dd_rms vs run
χ² / ndf 61.41 / 45
p0 1756 ± 1.833
1800
1780
1760
1740
1720
1700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 4
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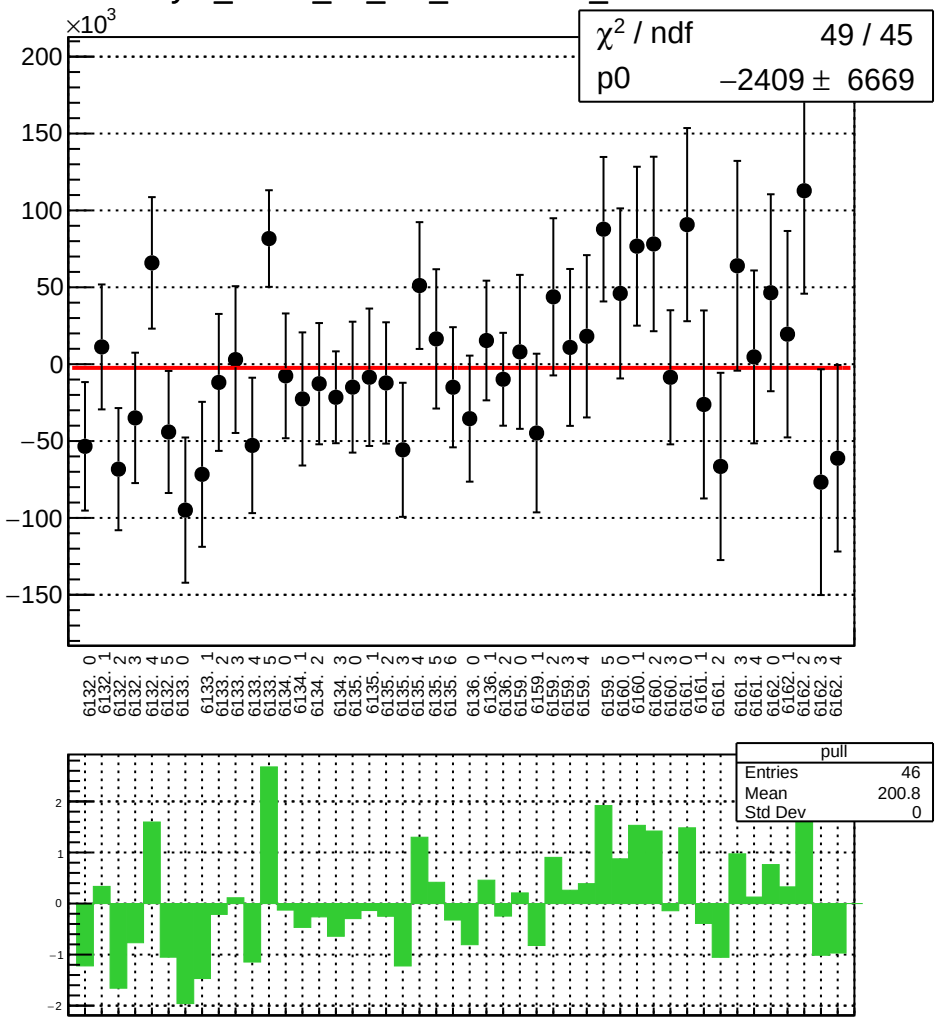
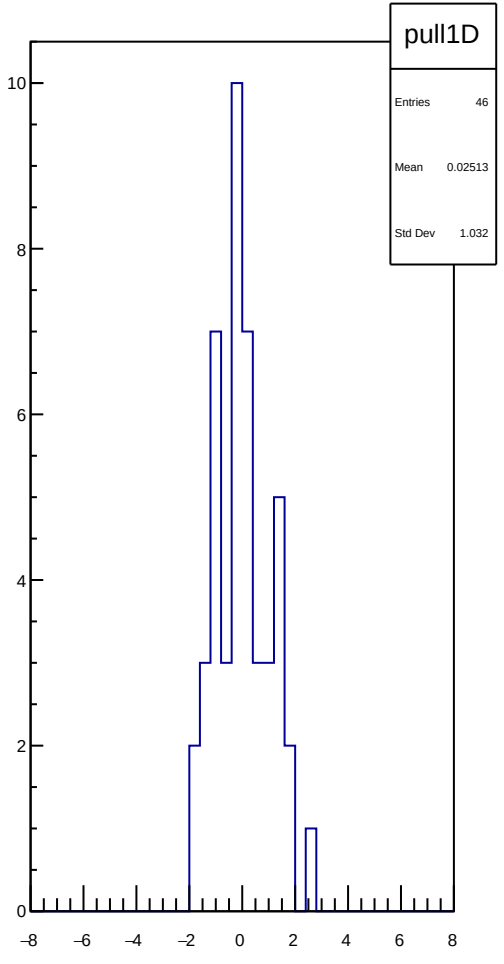
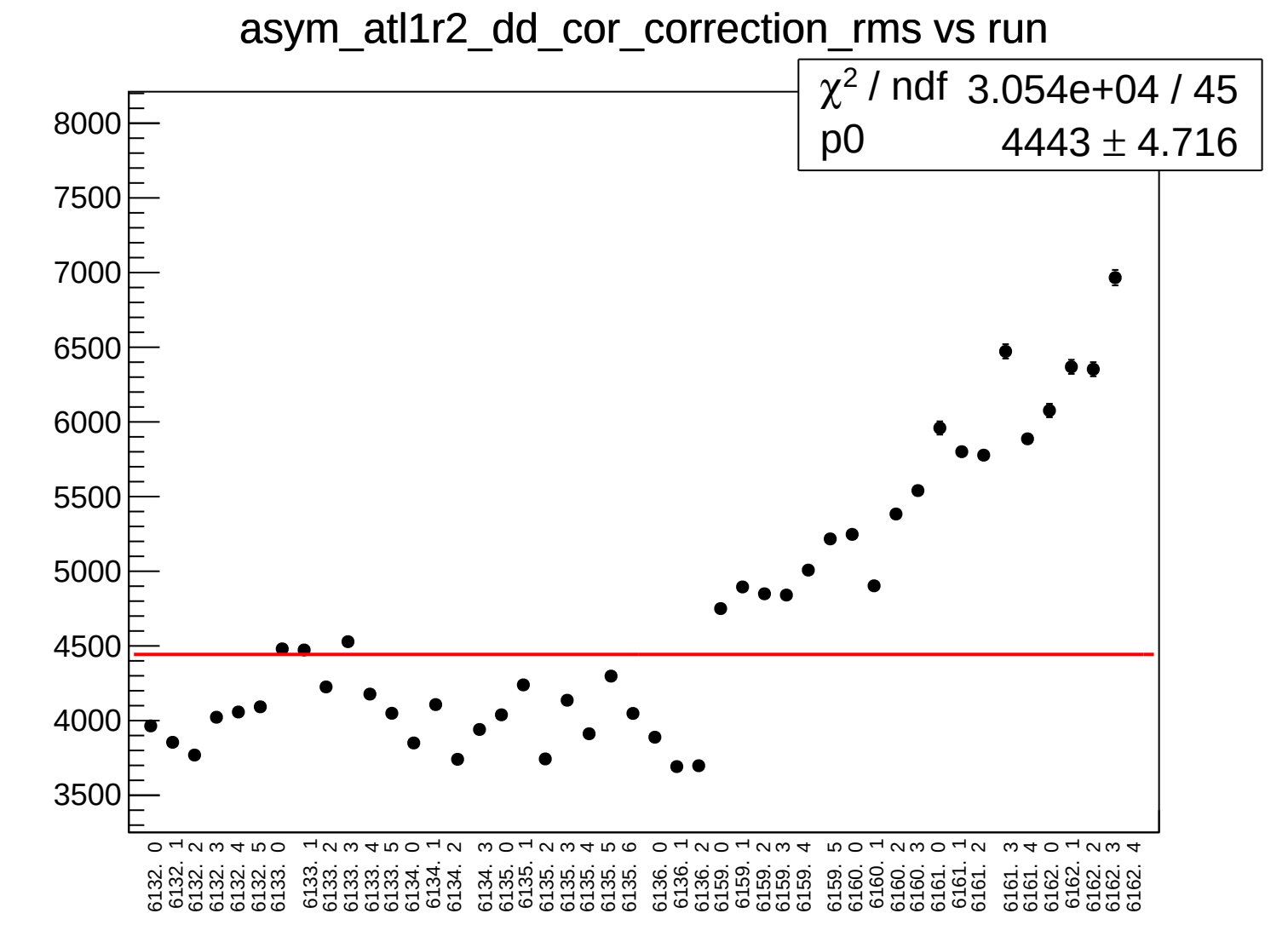
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 49 / 45
p0 −2409 ± 6669
pull
Entries 46
Mean 200.8
Std Dev 0


pull1D
Entries 46
Mean 0.02513
Std Dev 1.032


asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 3.054e+04 / 45
p0 4443 ± 4.716
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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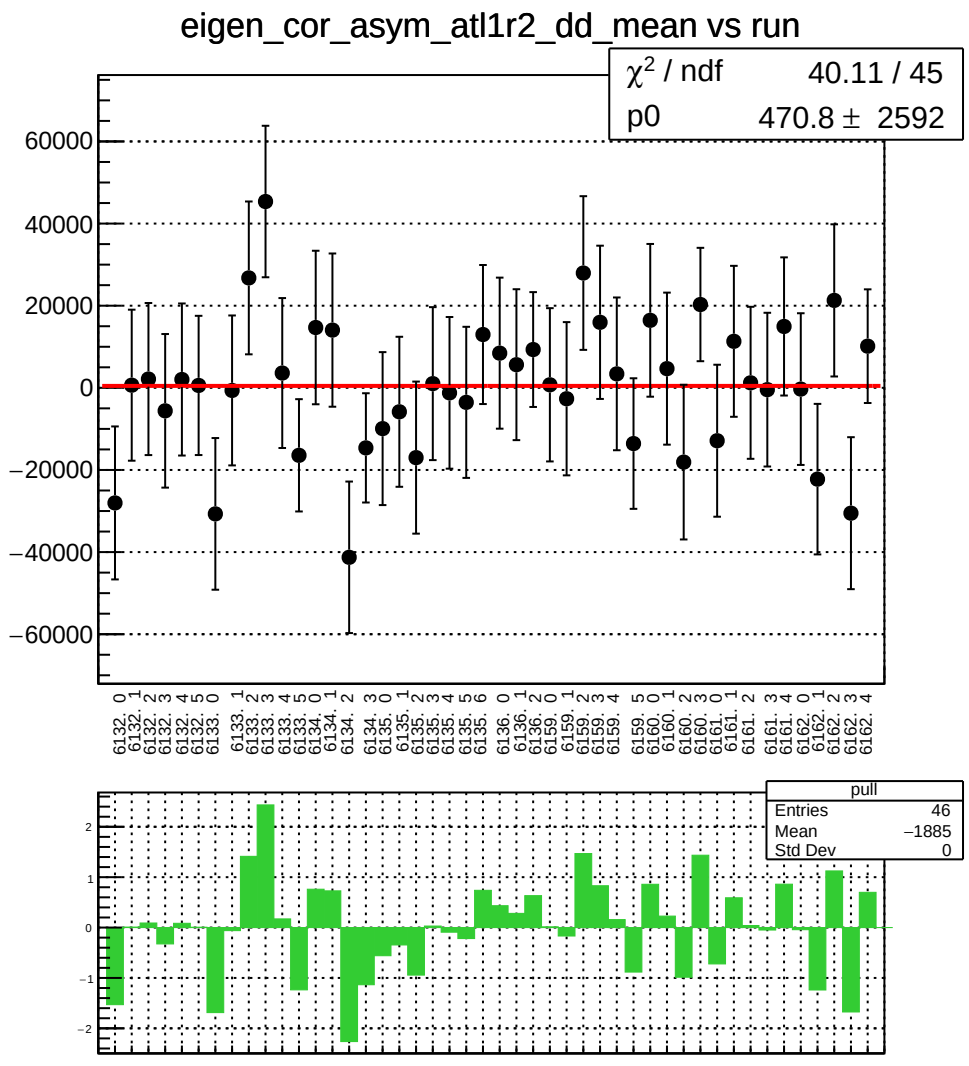
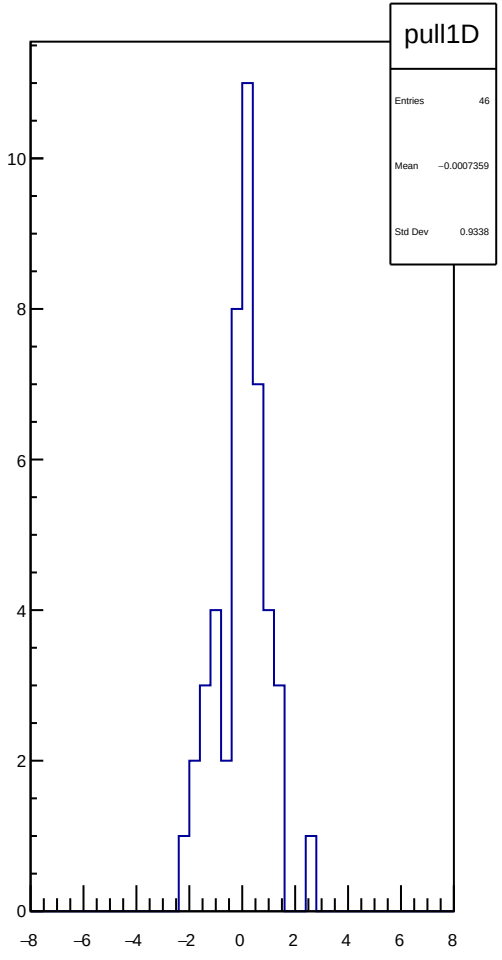
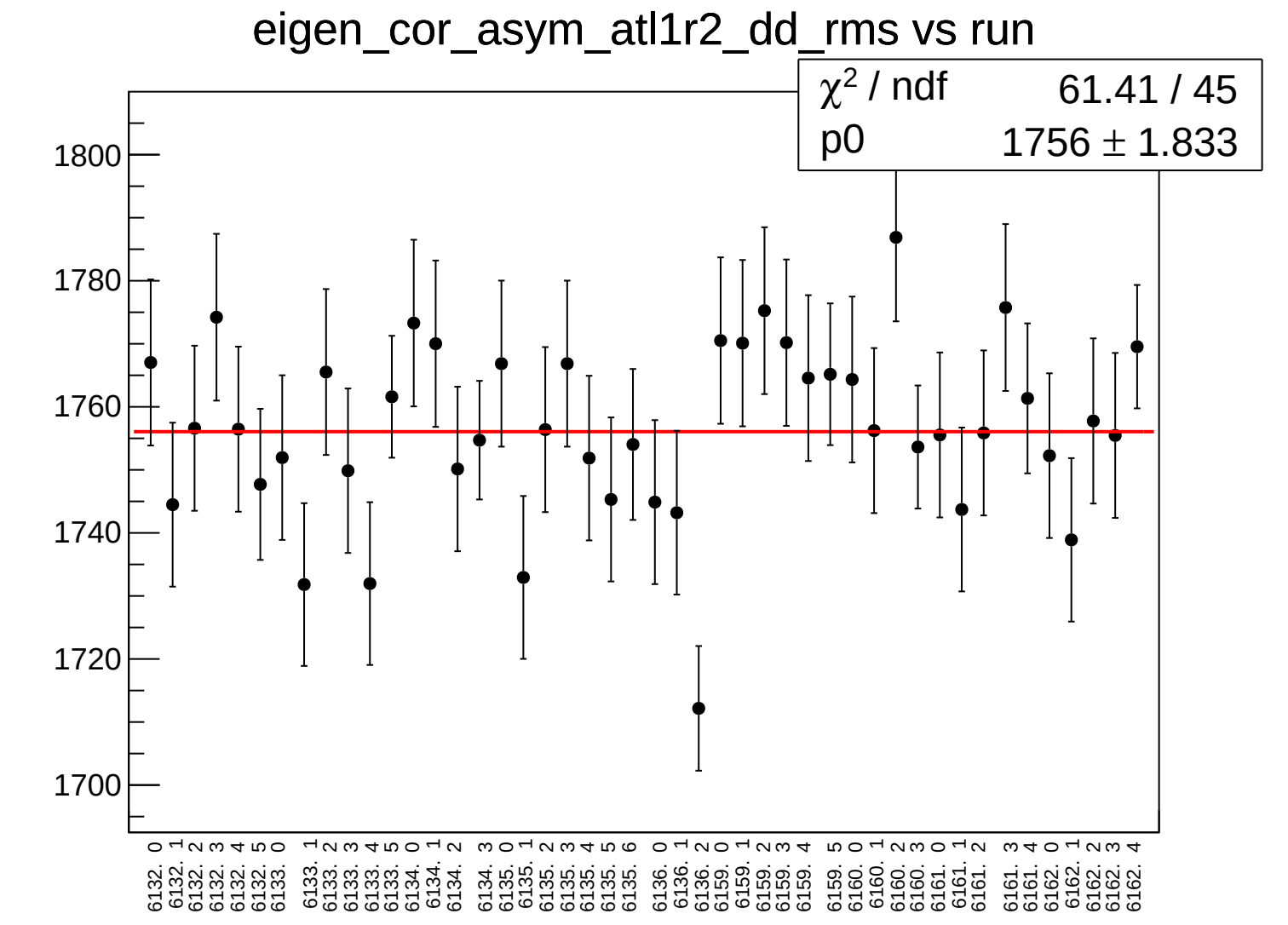
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 40.11 / 45
p0 470.8 ± 2592
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1885
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.0007359
Std Dev 0.9338
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 61.41 / 45
p0 1756 ± 1.833
1800
1780
1760
1740
1720
1700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
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
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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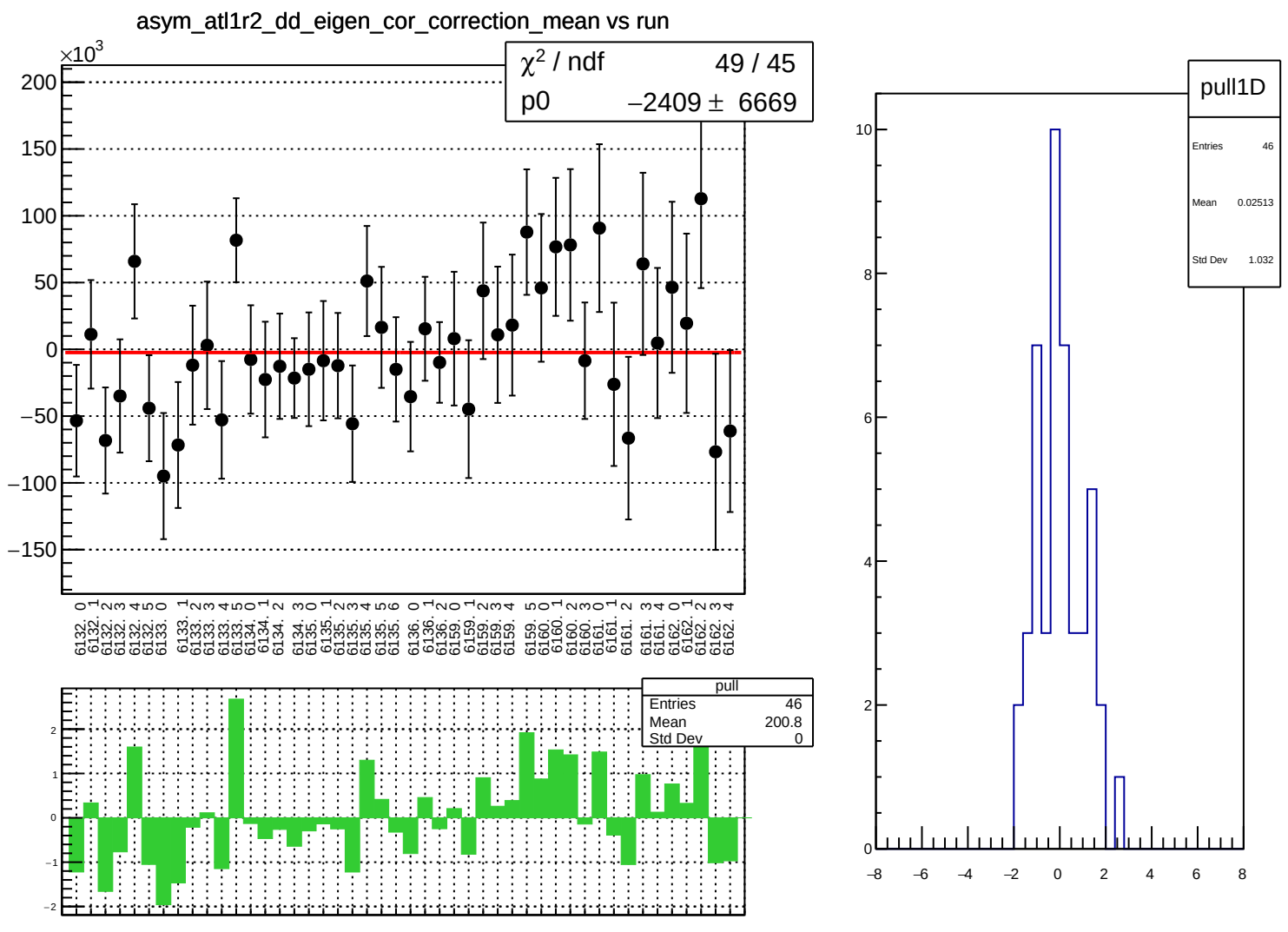
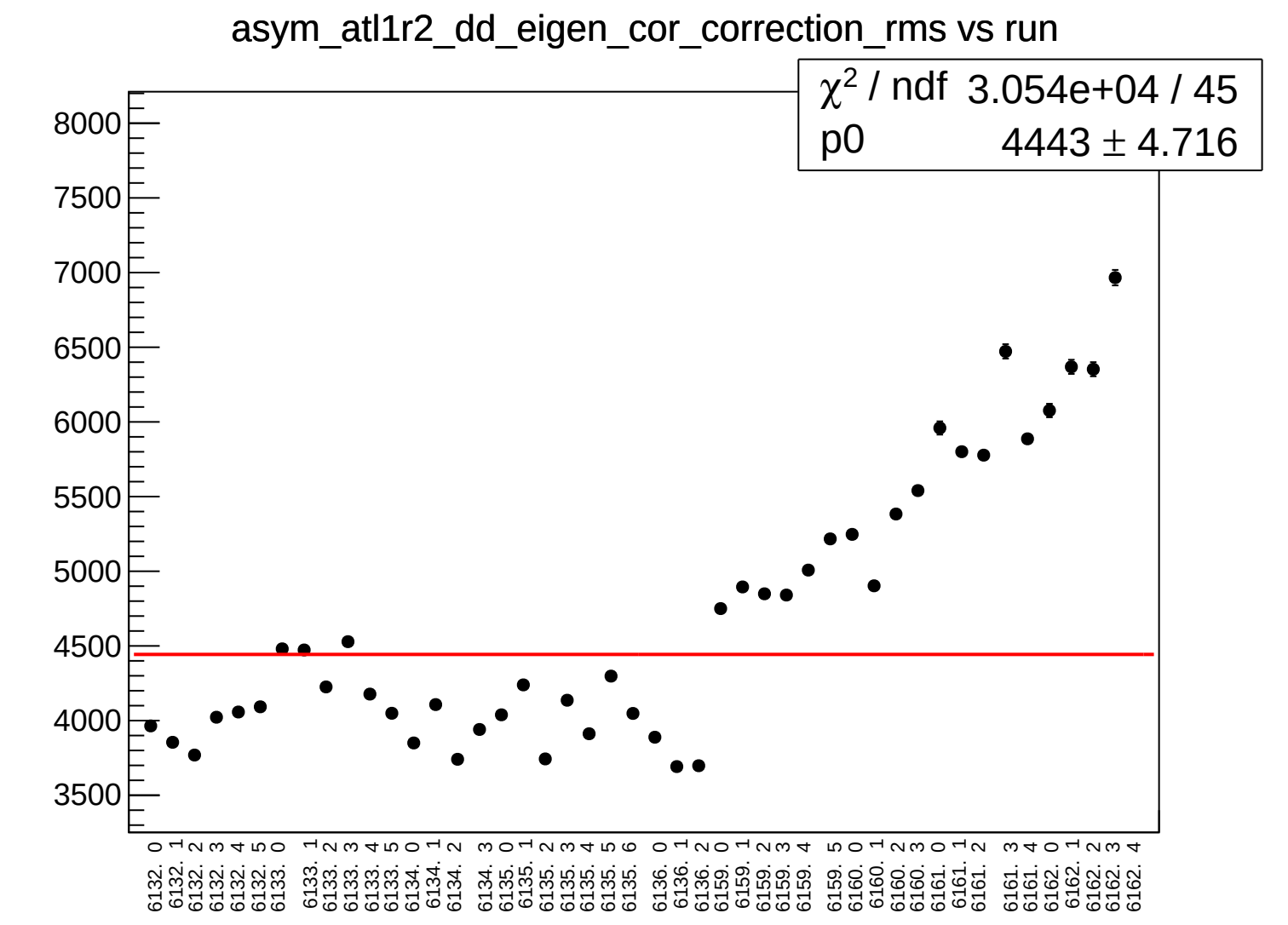
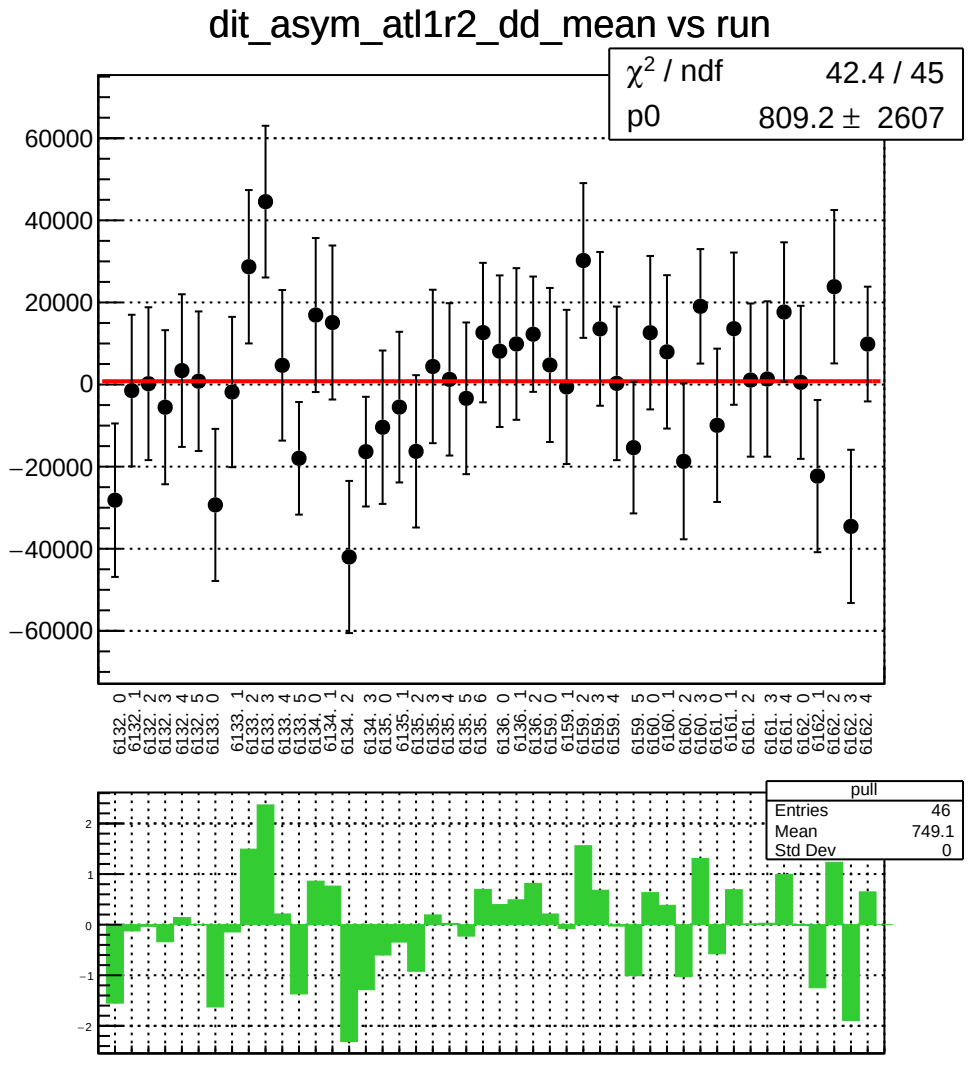
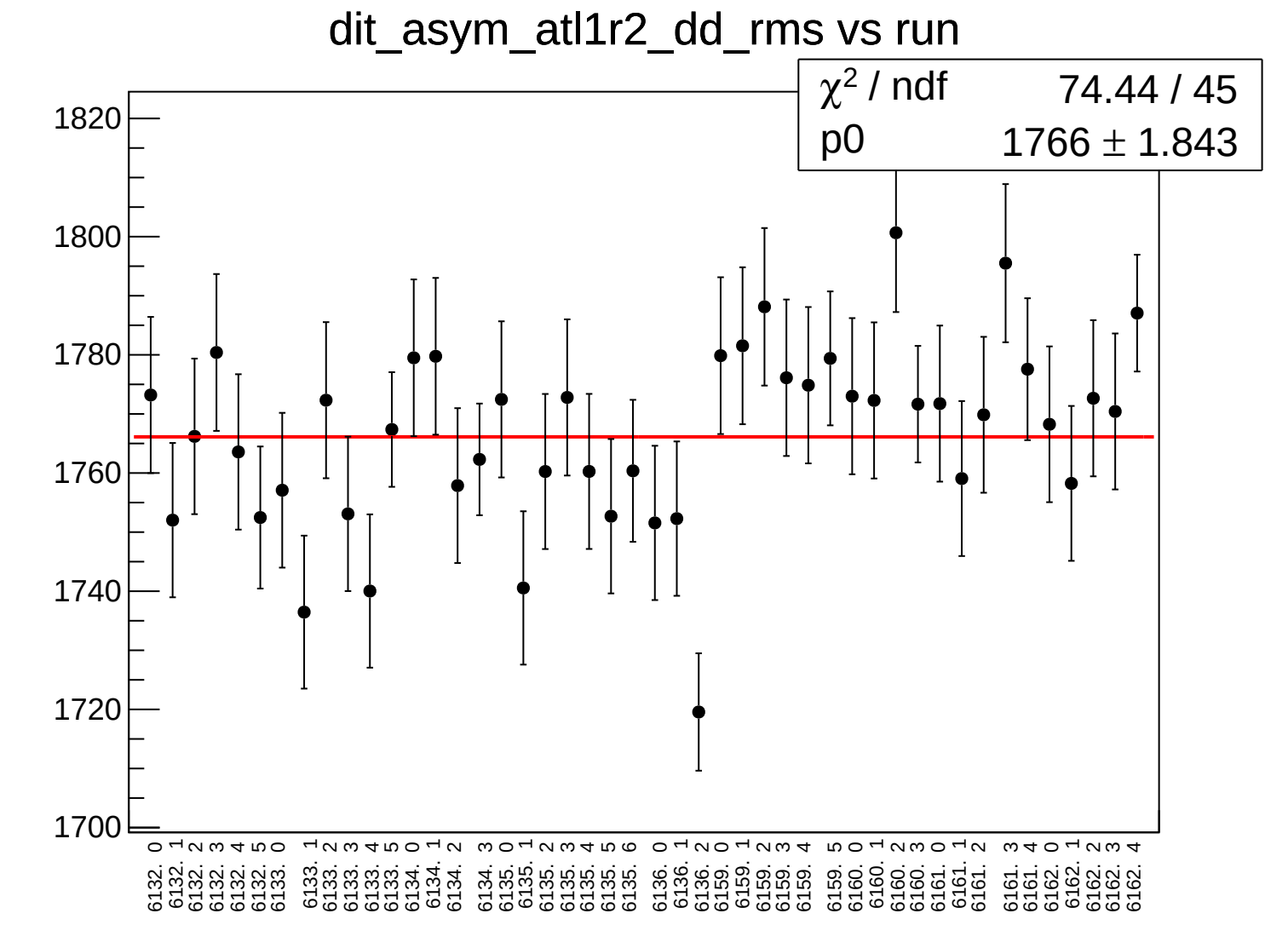
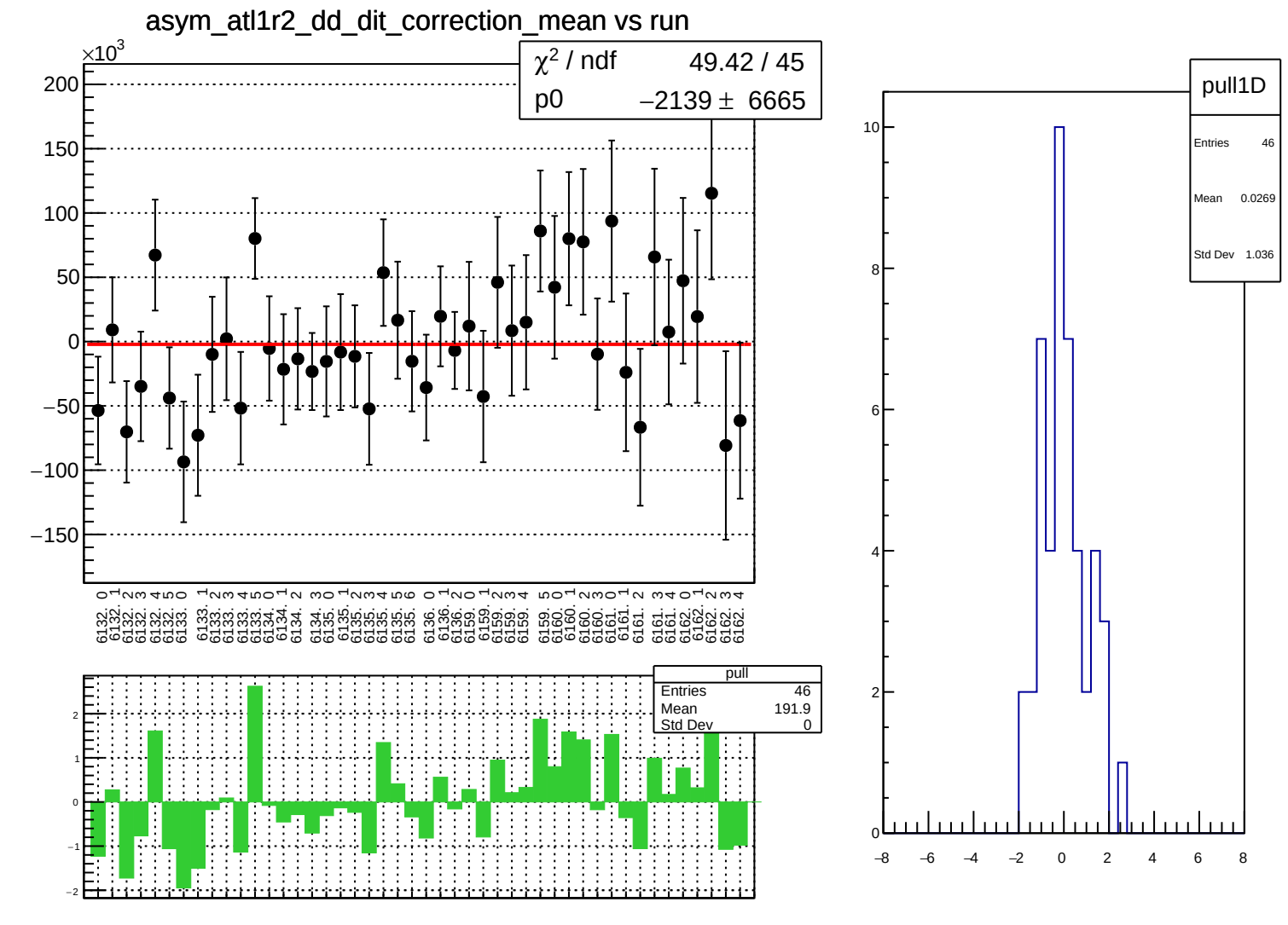
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

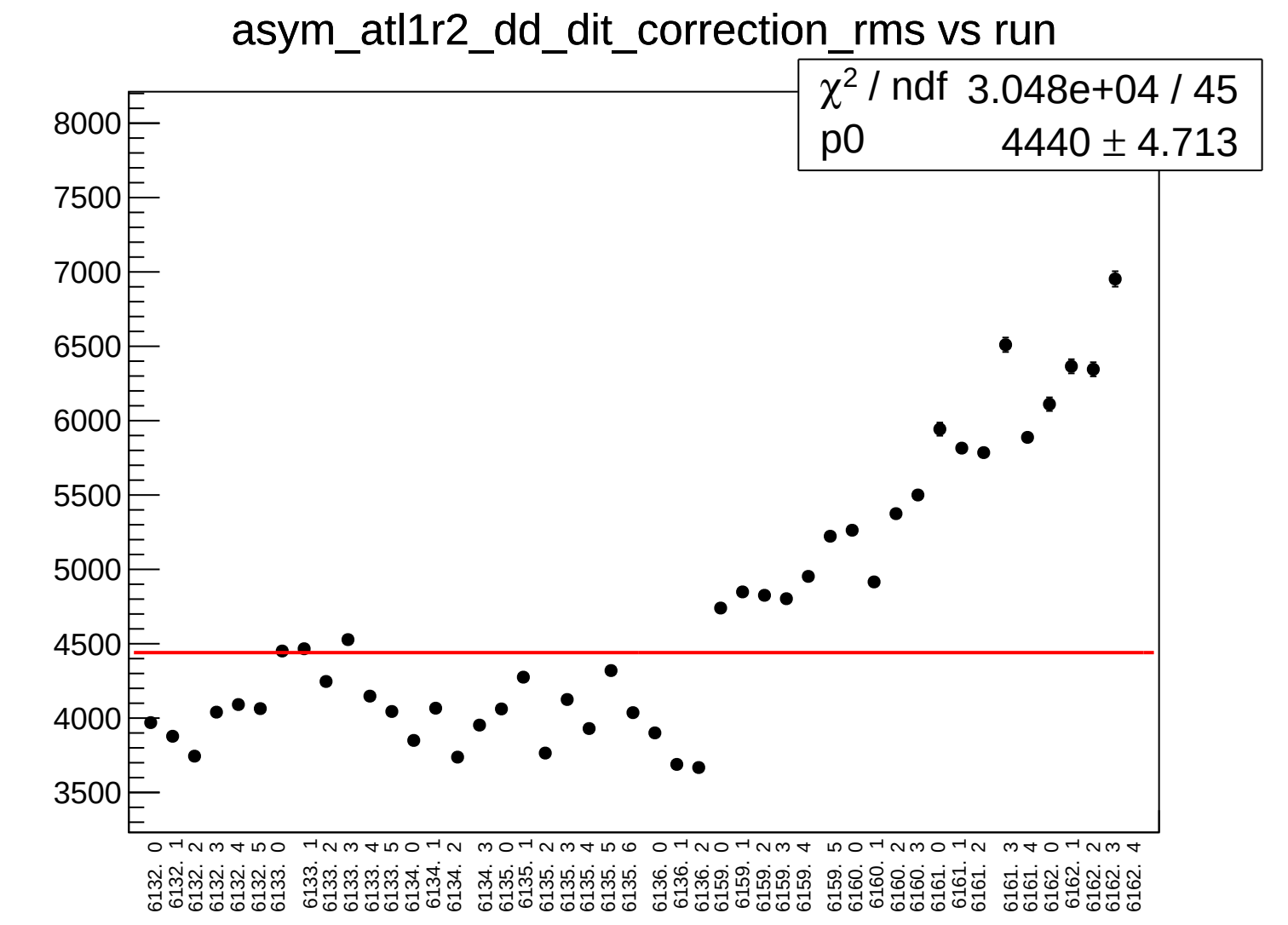

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 49 / 45
p0 −2409 ± 6669
pull
Entries 46
Mean 200.8
Std Dev 0
pull1D
Entries 46
Mean 0.02513
Std Dev 1.032


asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.054e+04 / 45
p0 4443 ± 4.716
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


dit_asym_atl1r2_dd_mean vs run
χ² / ndf 42.4 / 45
p0 809.2 ± 2607
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 749.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.002094
Std Dev 0.9601
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl1r2_dd_rms vs run
χ² / ndf 74.44 / 45
p0 1766 ± 1.843
1820
1800
1780
1760
1740
1720
1700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 49.42 / 45
p0 −2139 ± 6665
200
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6136. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 191.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.0269
Std Dev 1.036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 3.048e+04 / 45
p0 4440 ± 4.713
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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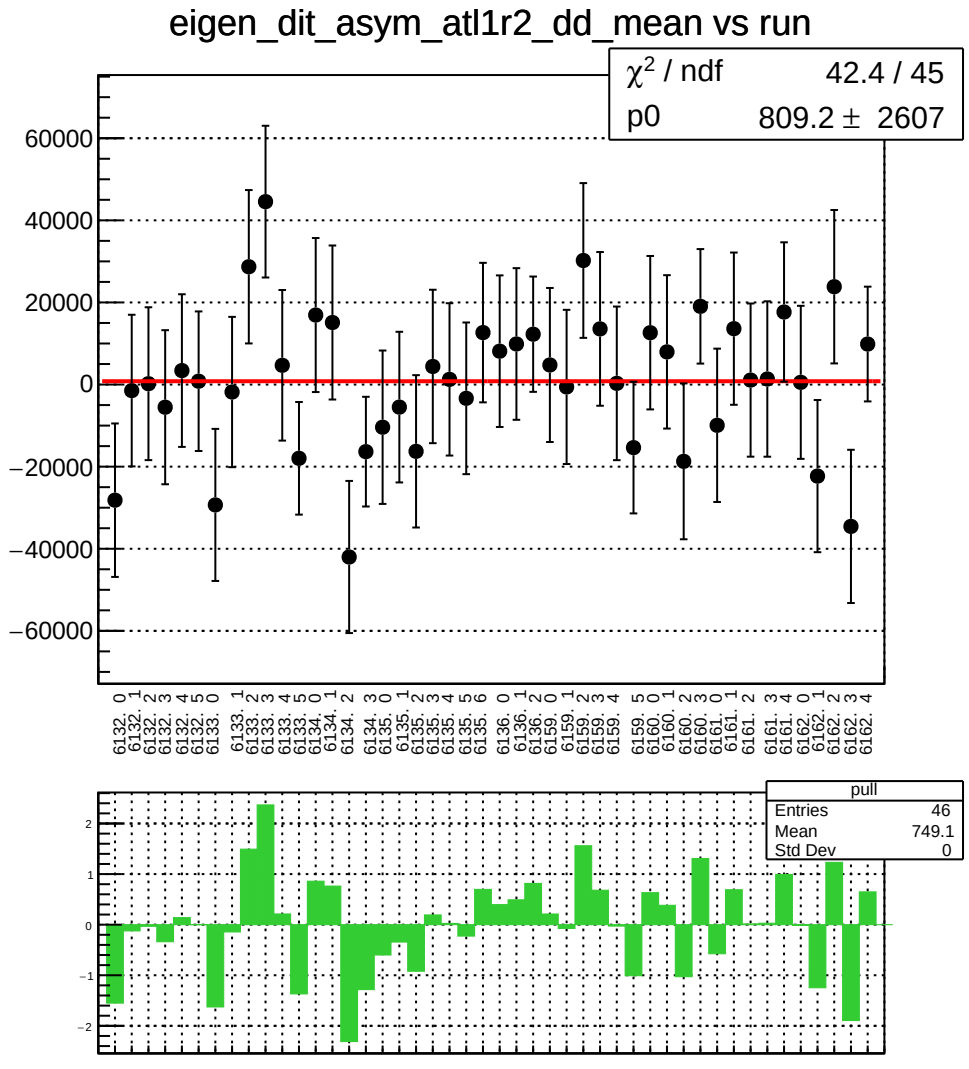
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 42.4 / 45
p0 809.2 ± 2607
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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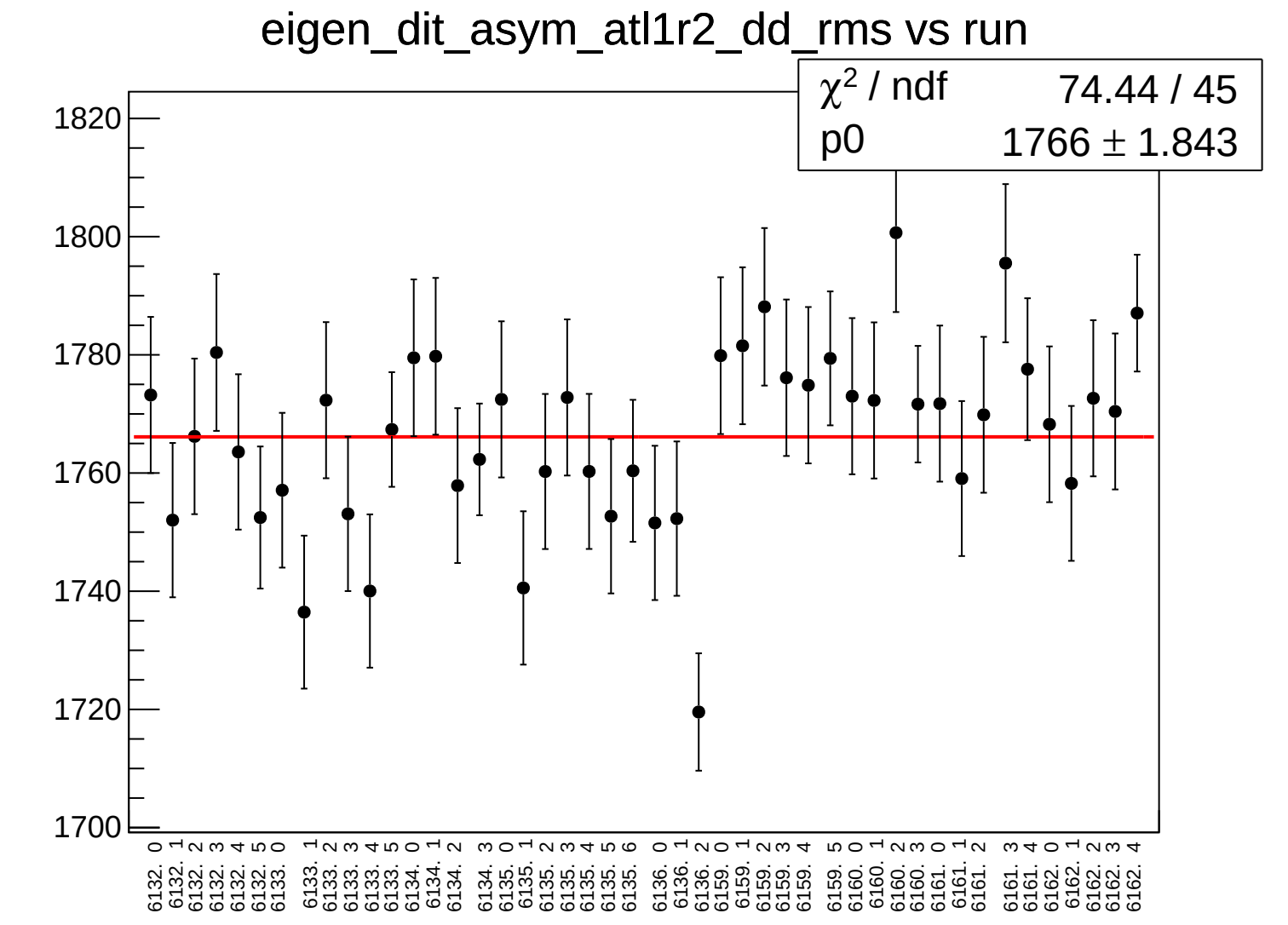
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 749.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.002094
Std Dev 0.9601
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 74.44 / 45
p0 1766 ± 1.843
1820
1800
1780
1760
1740
1720
1700
6132. 0
6132. 1
6132. 2
6132. 3
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6133. 2
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6135. 5
6135. 6
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6136. 2
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6159. 2
6159. 3
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6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 3
6161. 4
6162. 0
6162. 1
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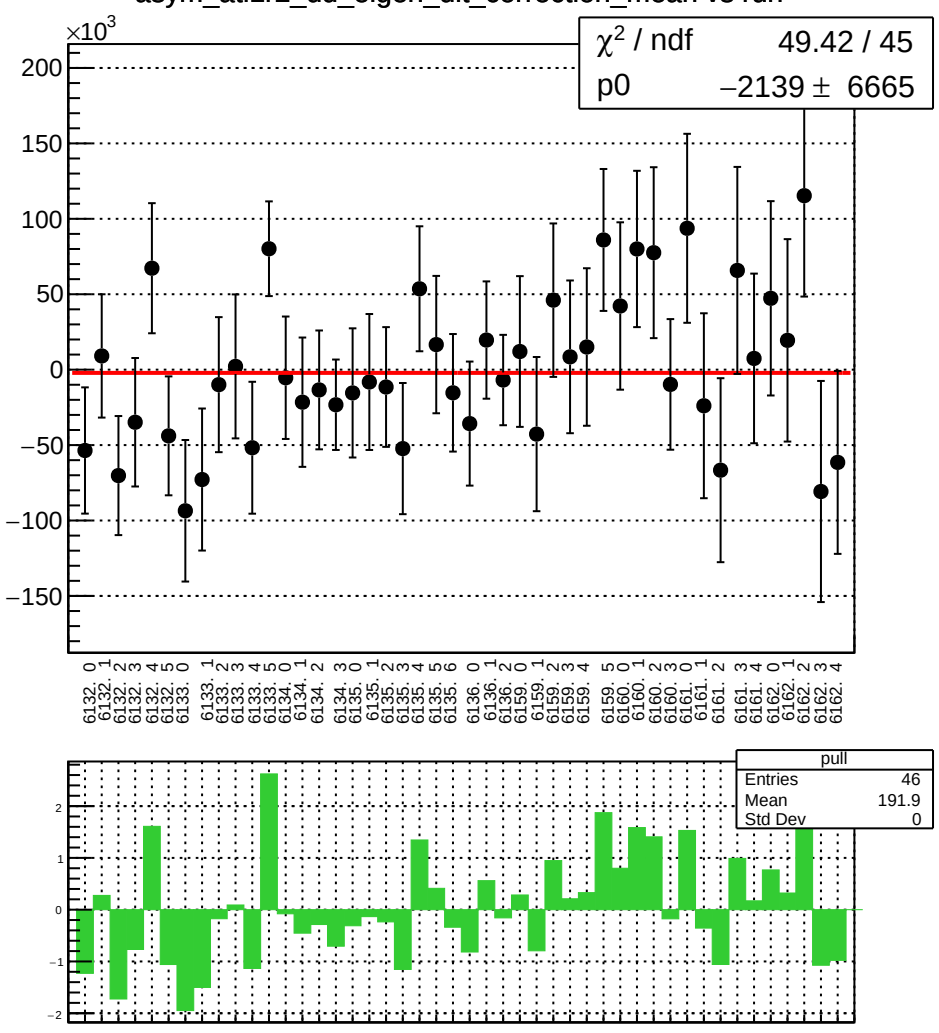
6162. 3
6162. 4


asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 49.42 / 45
p0 −2139 ± 6665
200
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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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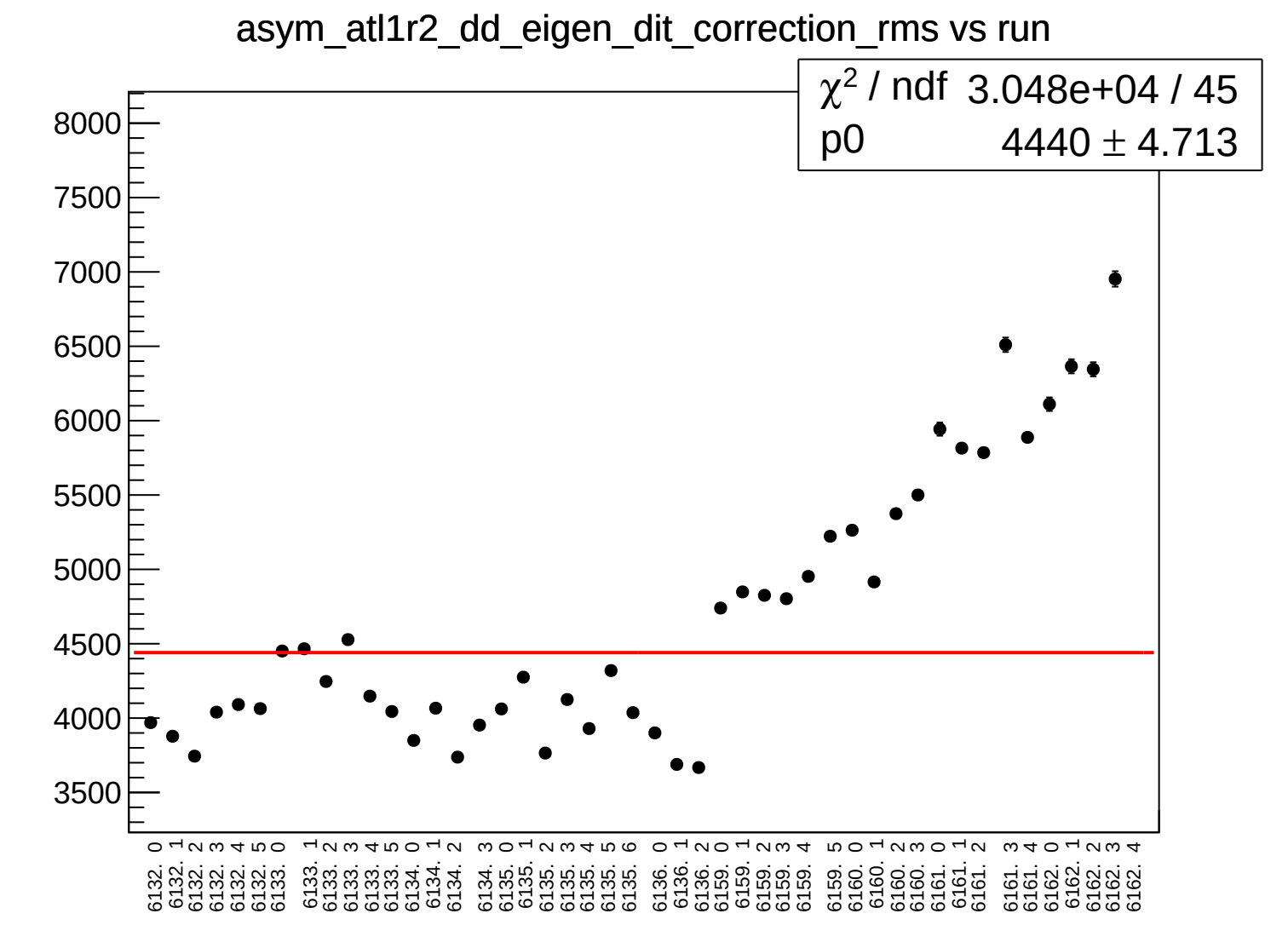
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 191.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.0269
Std Dev 1.036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.048e+04 / 45
p0 4440 ± 4.713
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
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6136. 0
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6162. 1
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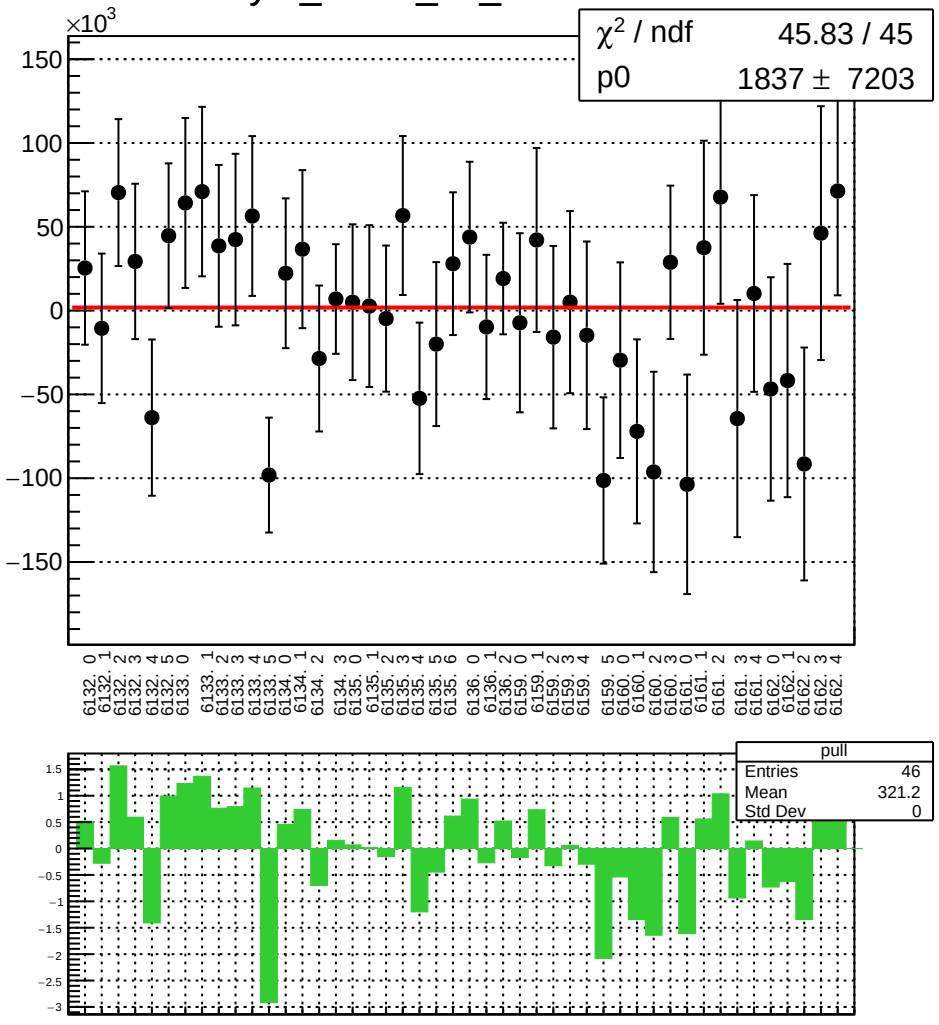
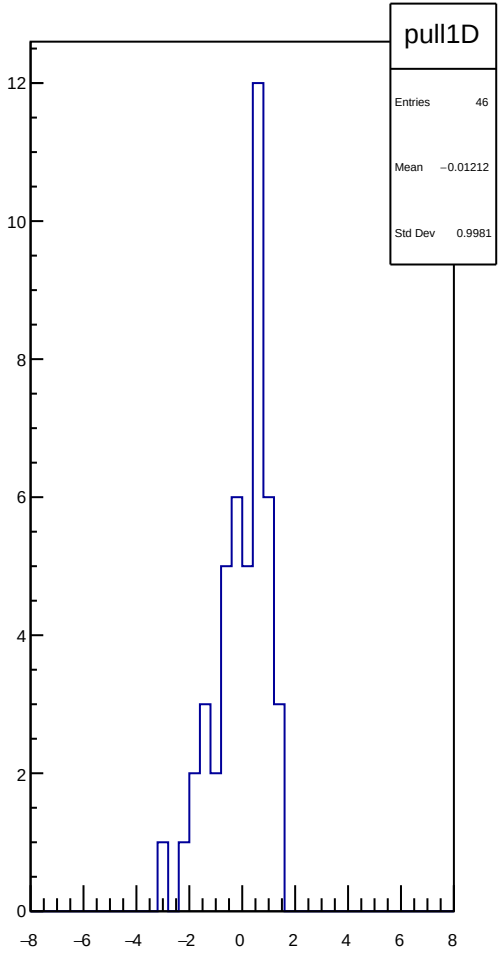
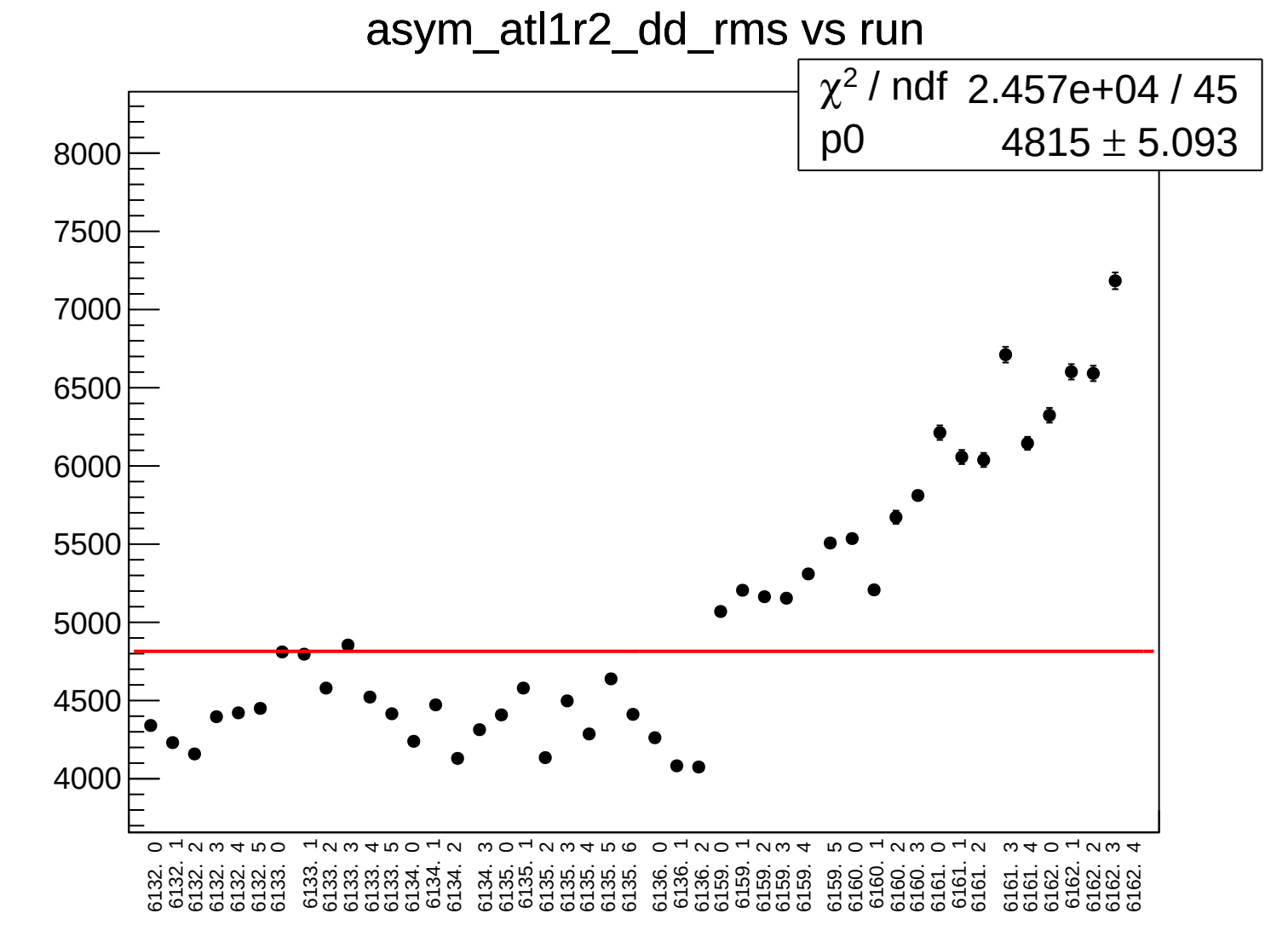
6162. 4


asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 45.83 / 45
p0 1837 ± 7203
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 321.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3


pull1D
Entries 46
Mean −0.01212
Std Dev 0.9981
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_rms vs run
χ² / ndf 2.457e+04 / 45
p0 4815 ± 5.093
8000
7500
7000
6500
6000
5500
5000
4500
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
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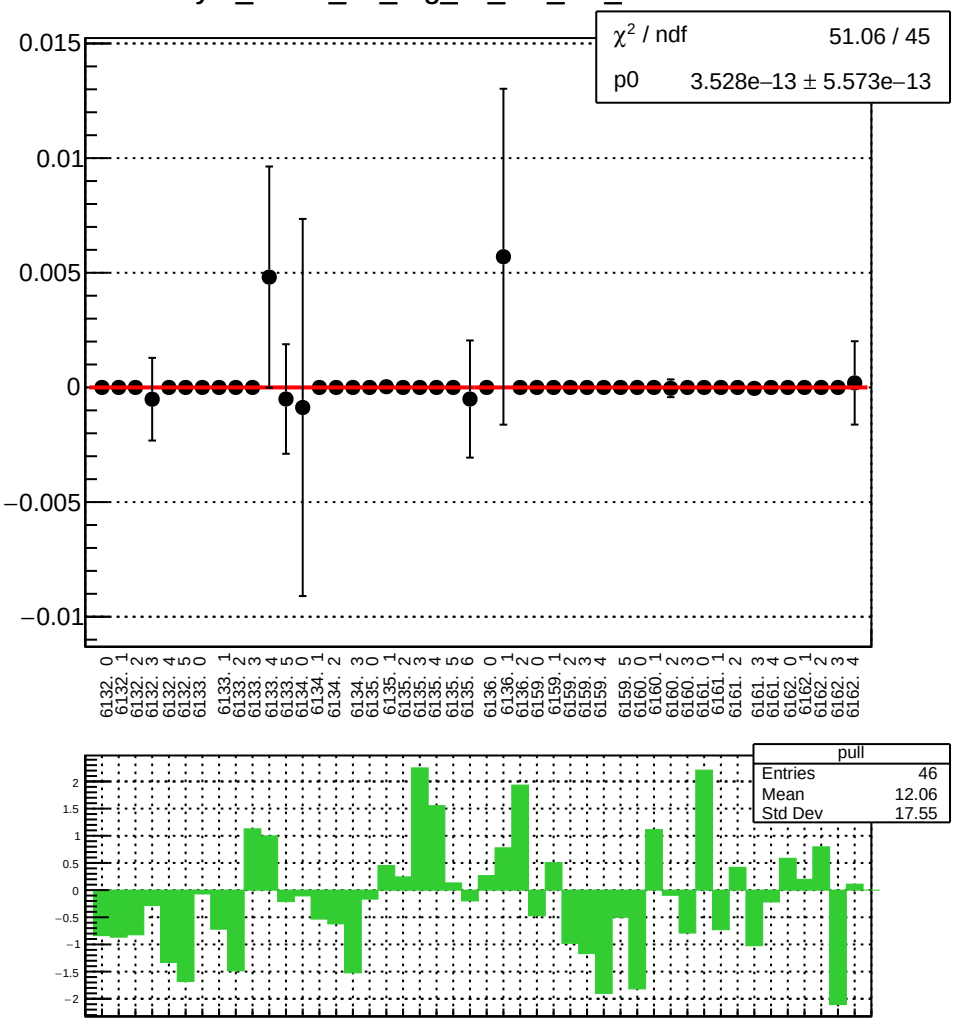
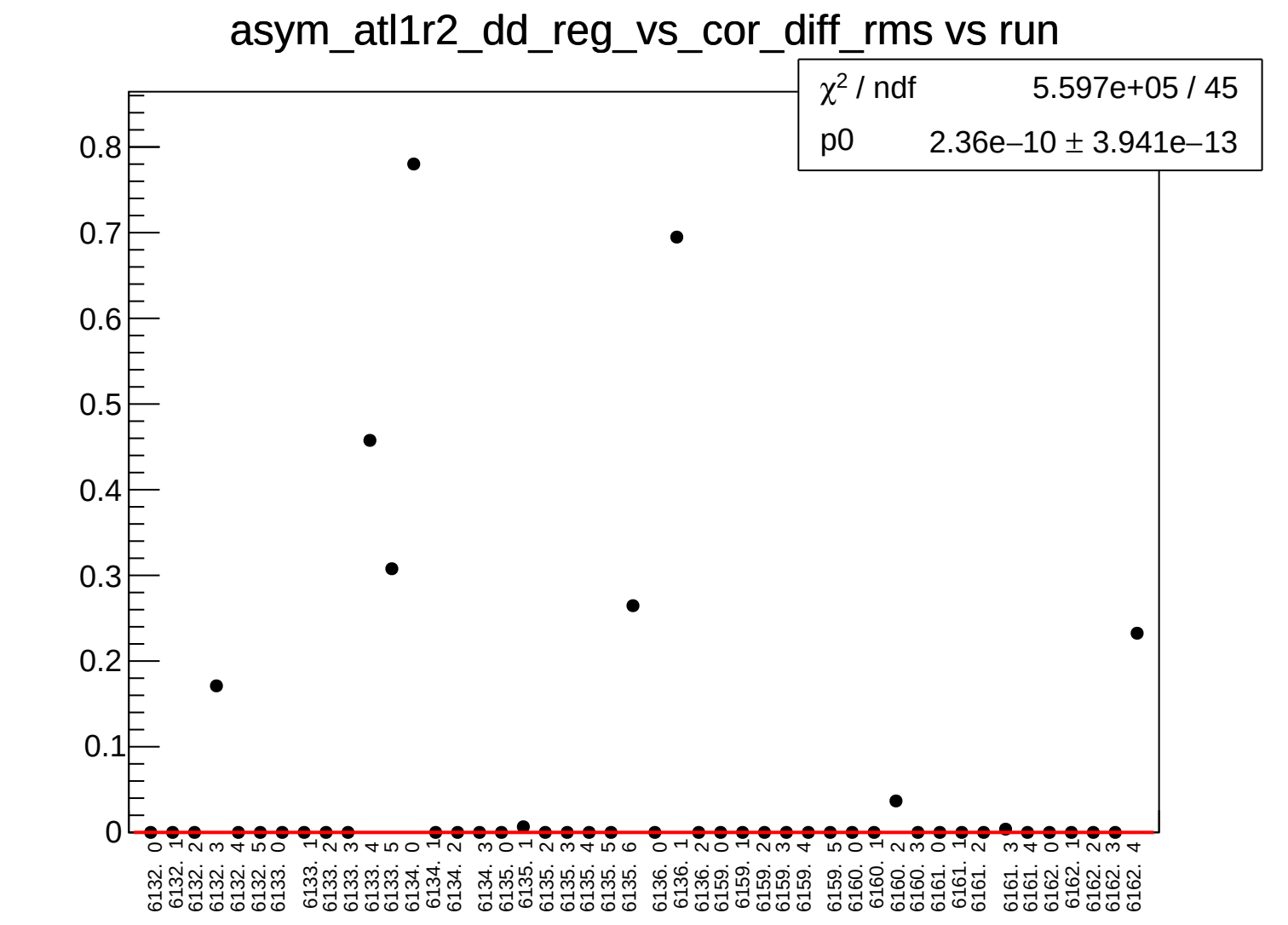
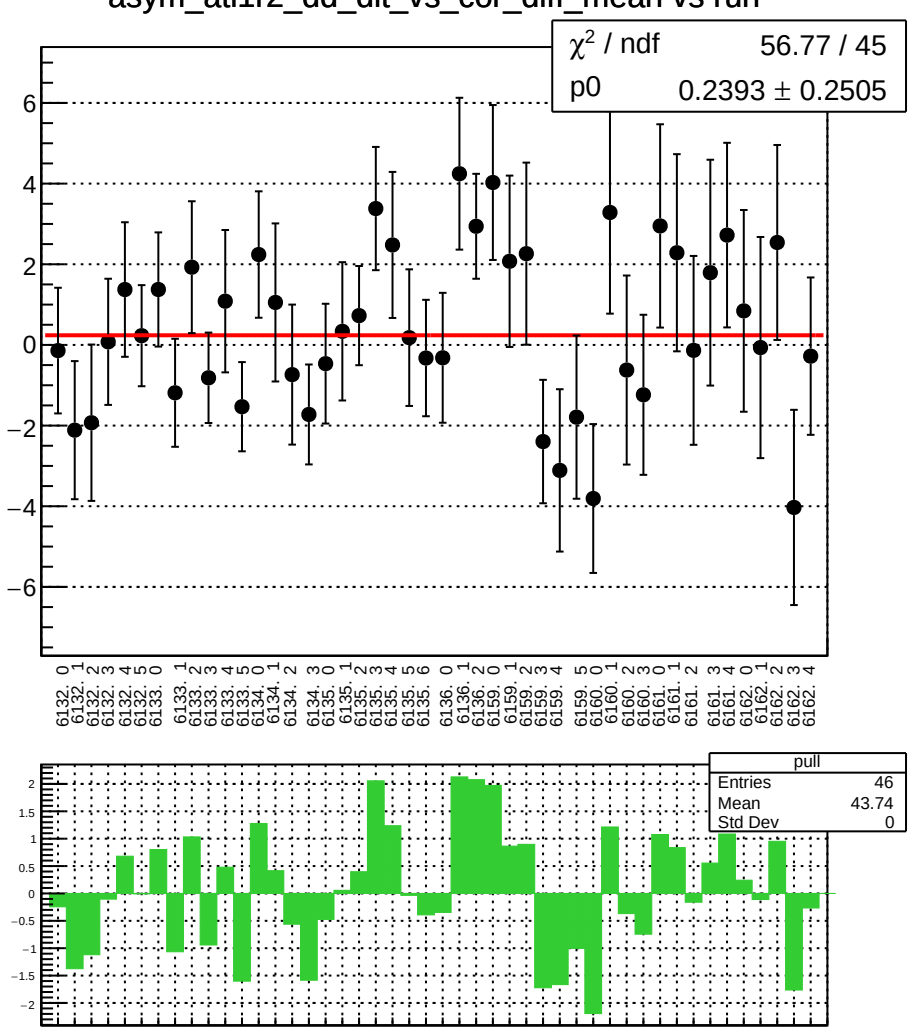
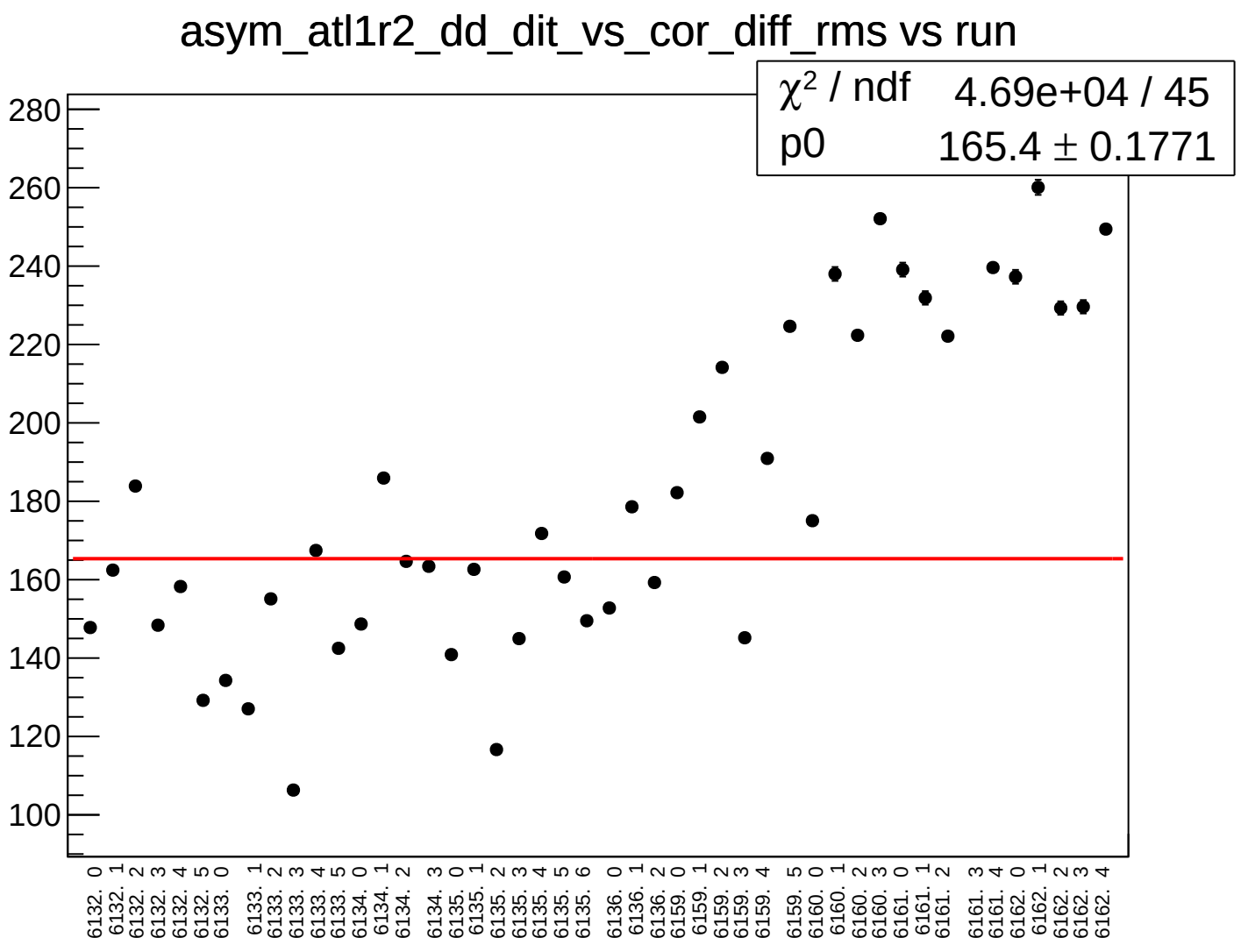
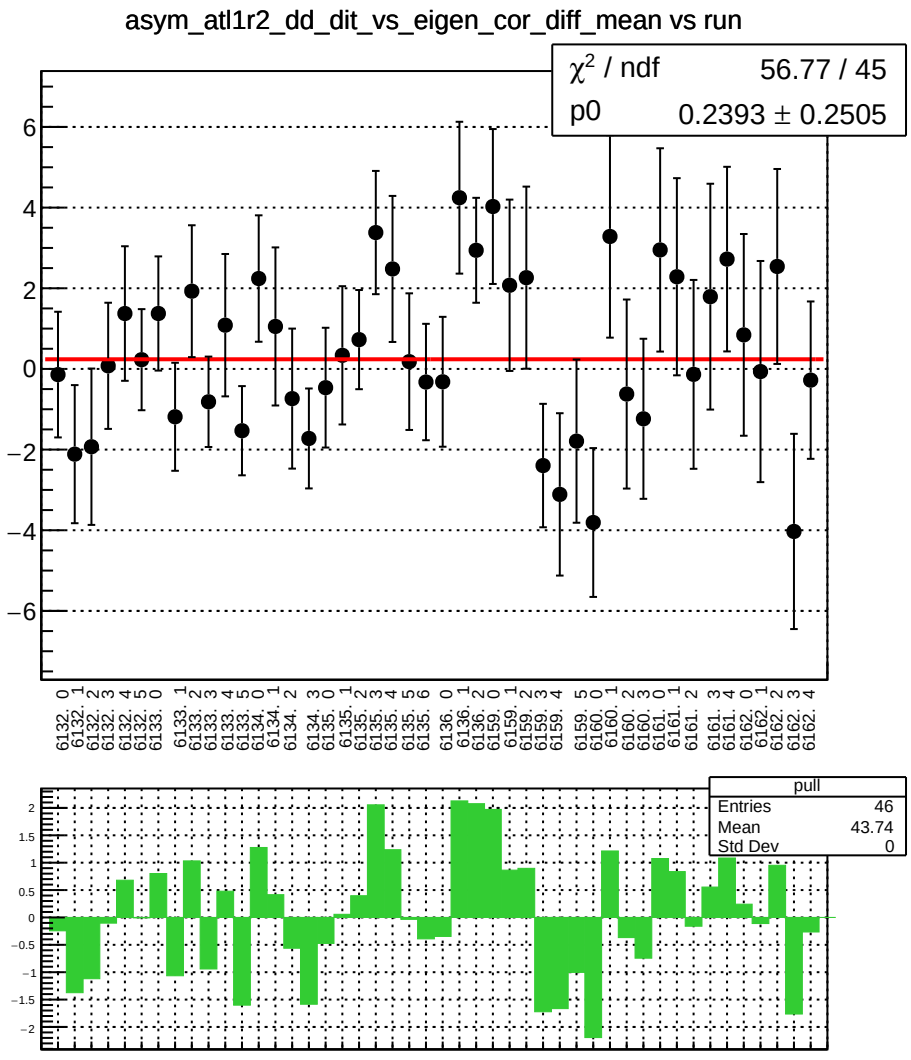
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

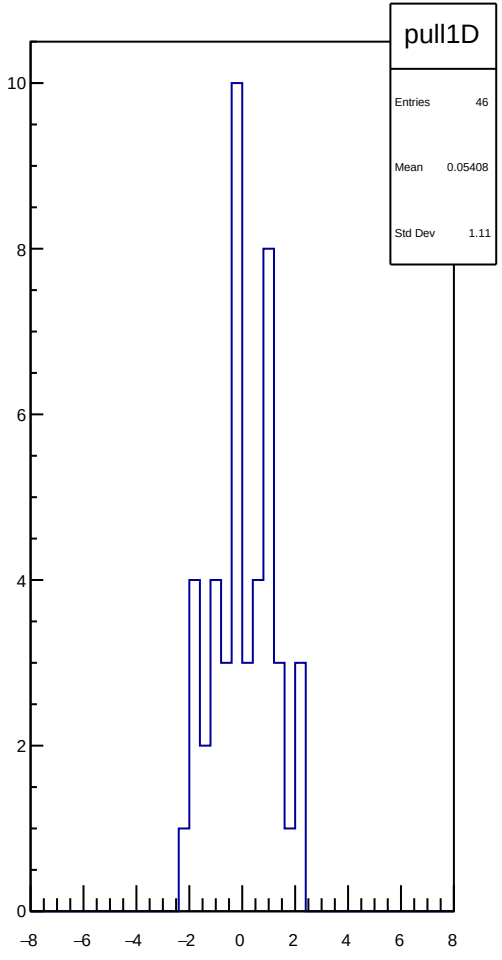

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 51.06 / 45
p0 3.528e−13 ± 5.573e−13
0.015
0.01
0.005
0
−0.005
−0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 12.06
Std Dev 17.55
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.1649
Std Dev 1.041
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

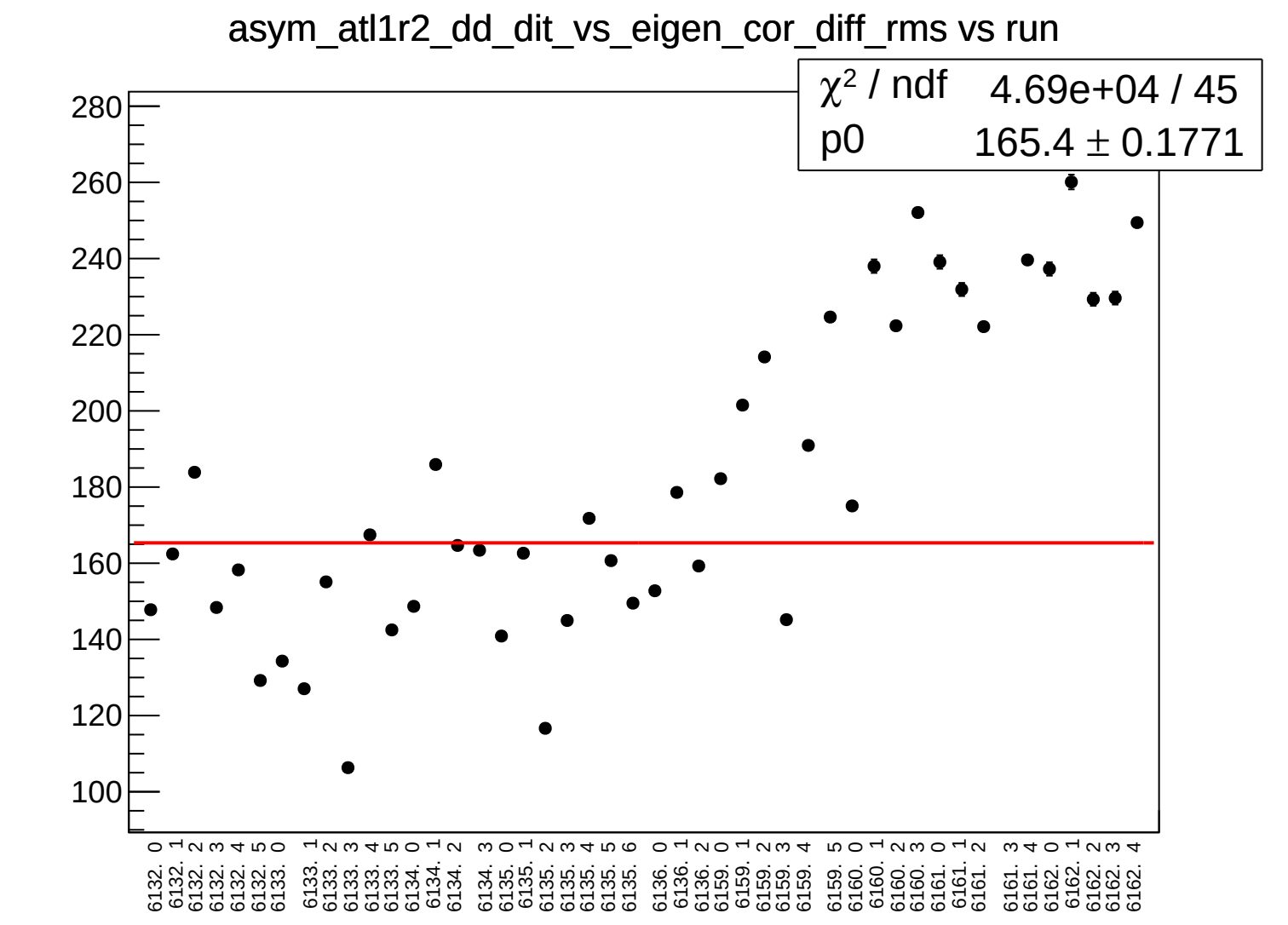

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.597e+05 / 45
p0 2.36e−10 ± 3.941e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

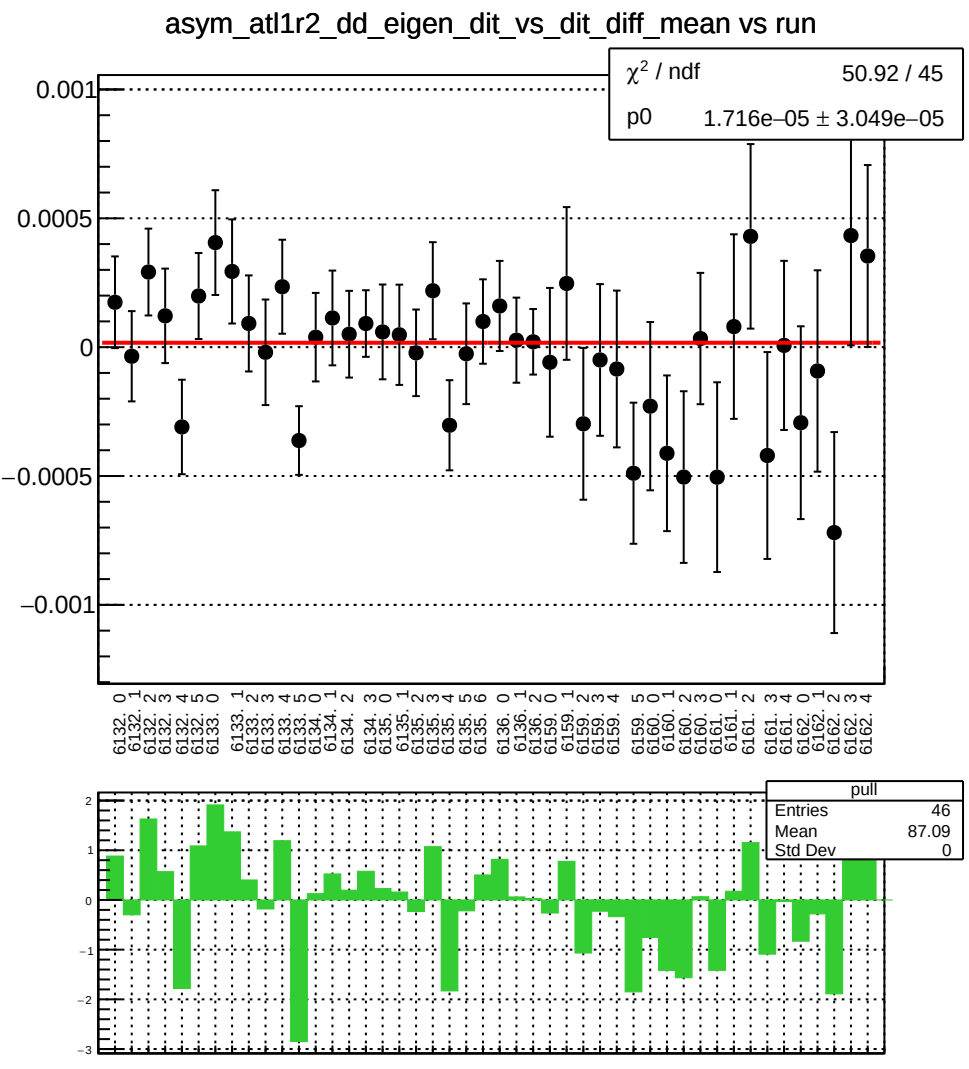

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 56.77 / 45
p0 0.2393 ± 0.2505
pull
Entries 46
Mean 43.74
Std Dev 0
pull1D
Entries 46
Mean 0.05408
Std Dev 1.11

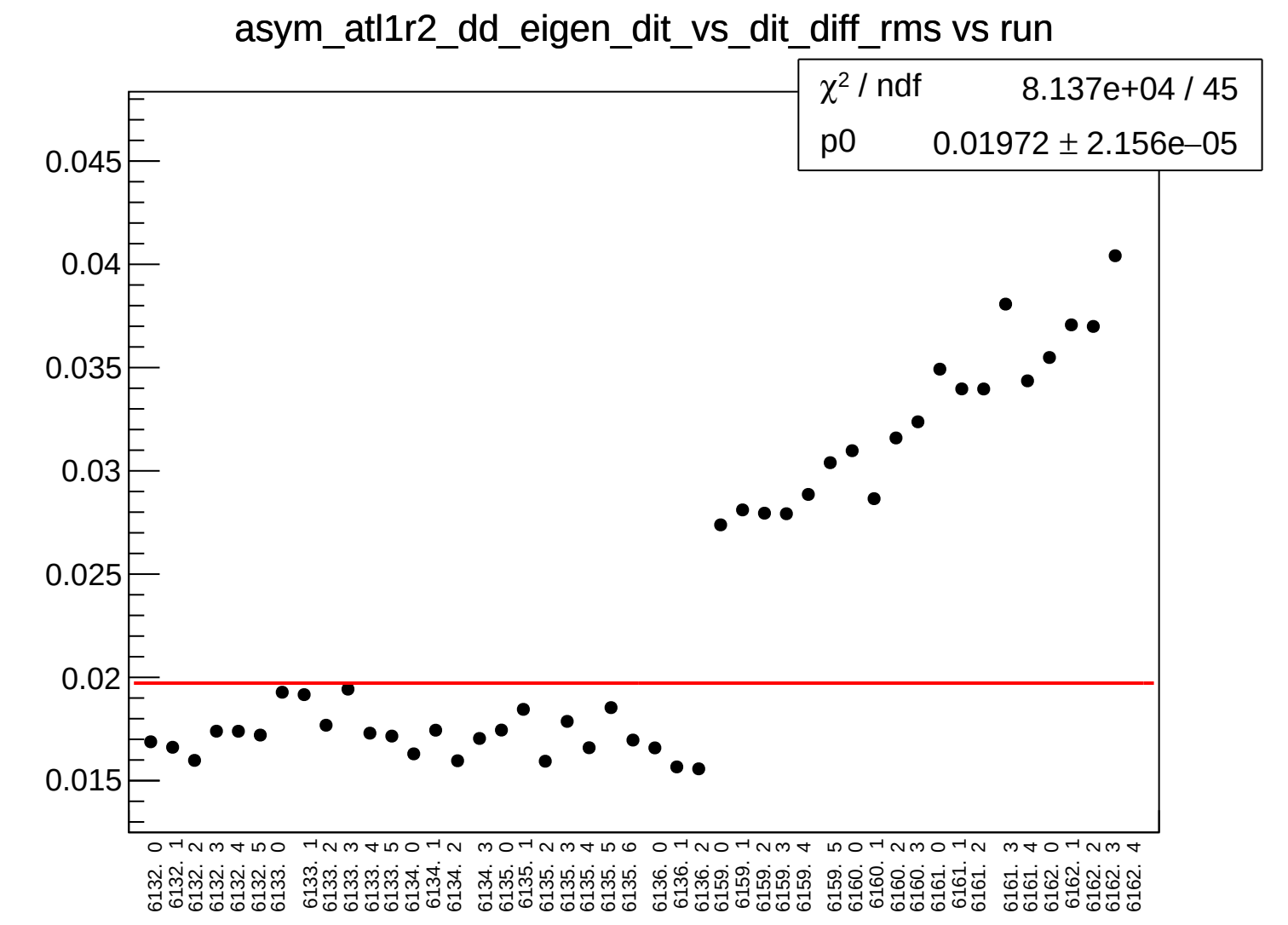

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.69e+04 / 45
p0 165.4 ± 0.1771
280
260
240
220
200
180
160
140
120
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

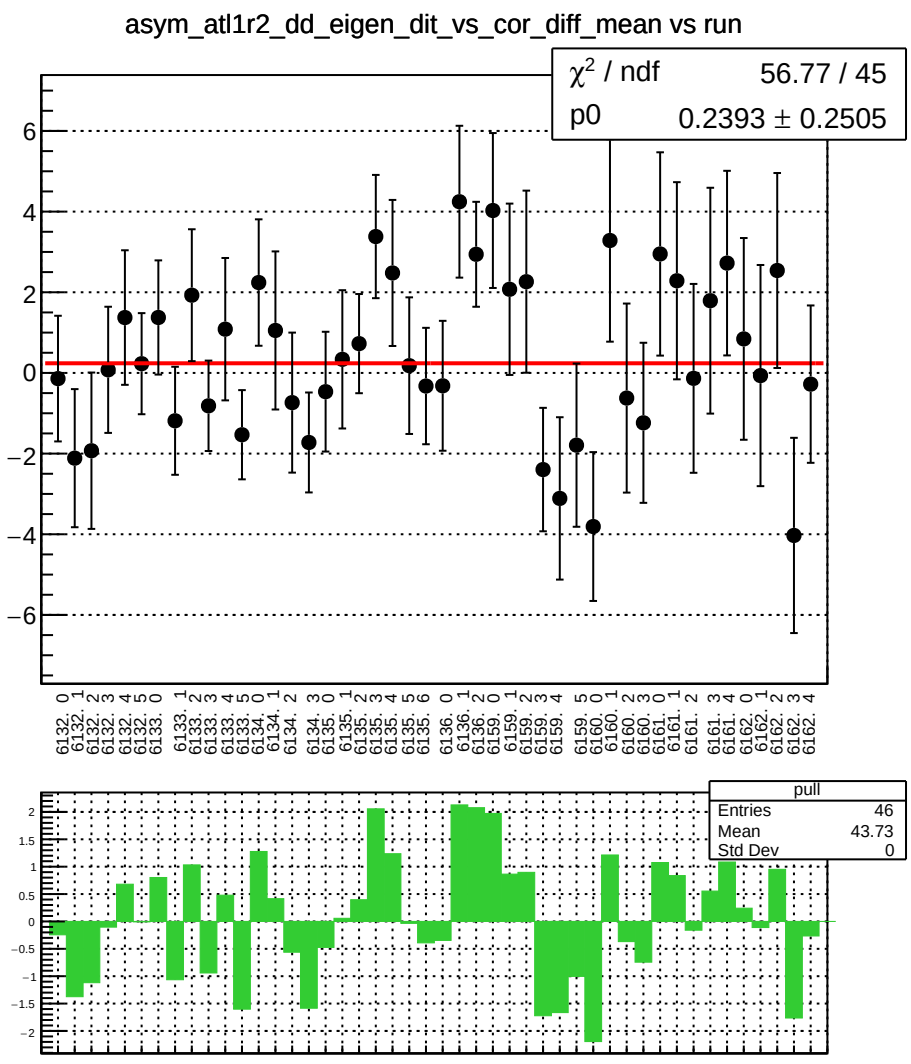

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56.77 / 45
p0 0.2393 ± 0.2505
pull
Entries 46
Mean 43.74
Std Dev 0

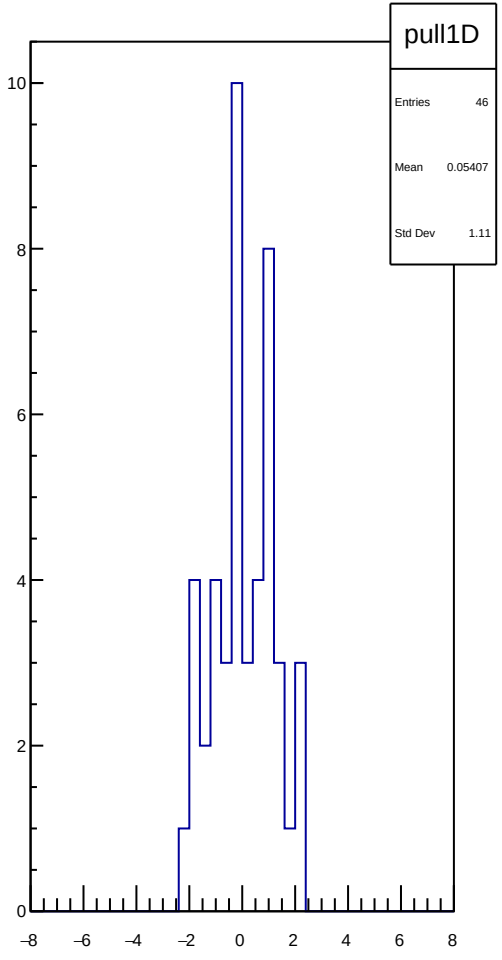

pull1D
Entries 46
Mean 0.05408
Std Dev 1.11

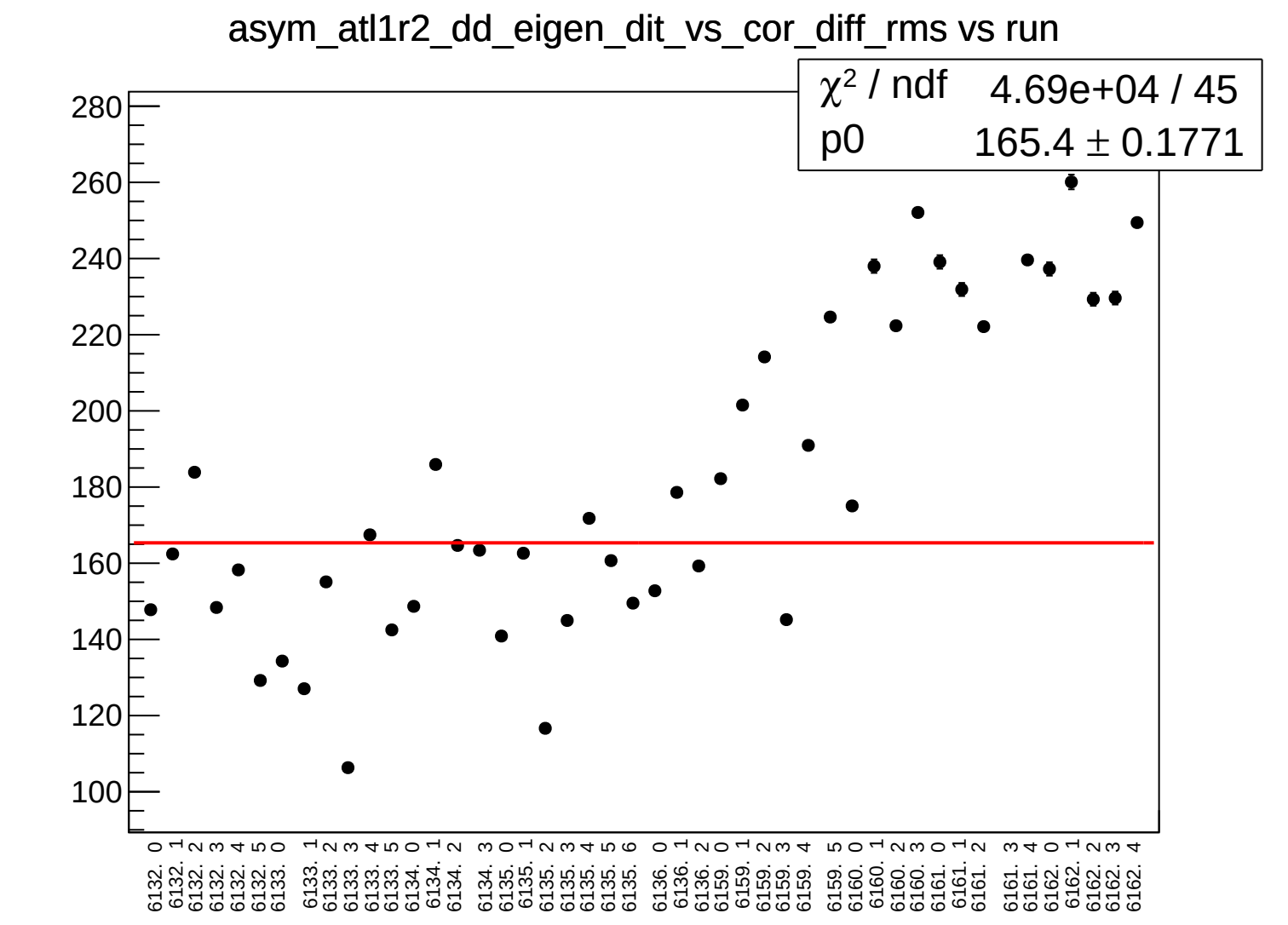

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.69e+04 / 45
p0 165.4 ± 0.1771
280
260
240
220
200
180
160
140
120
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

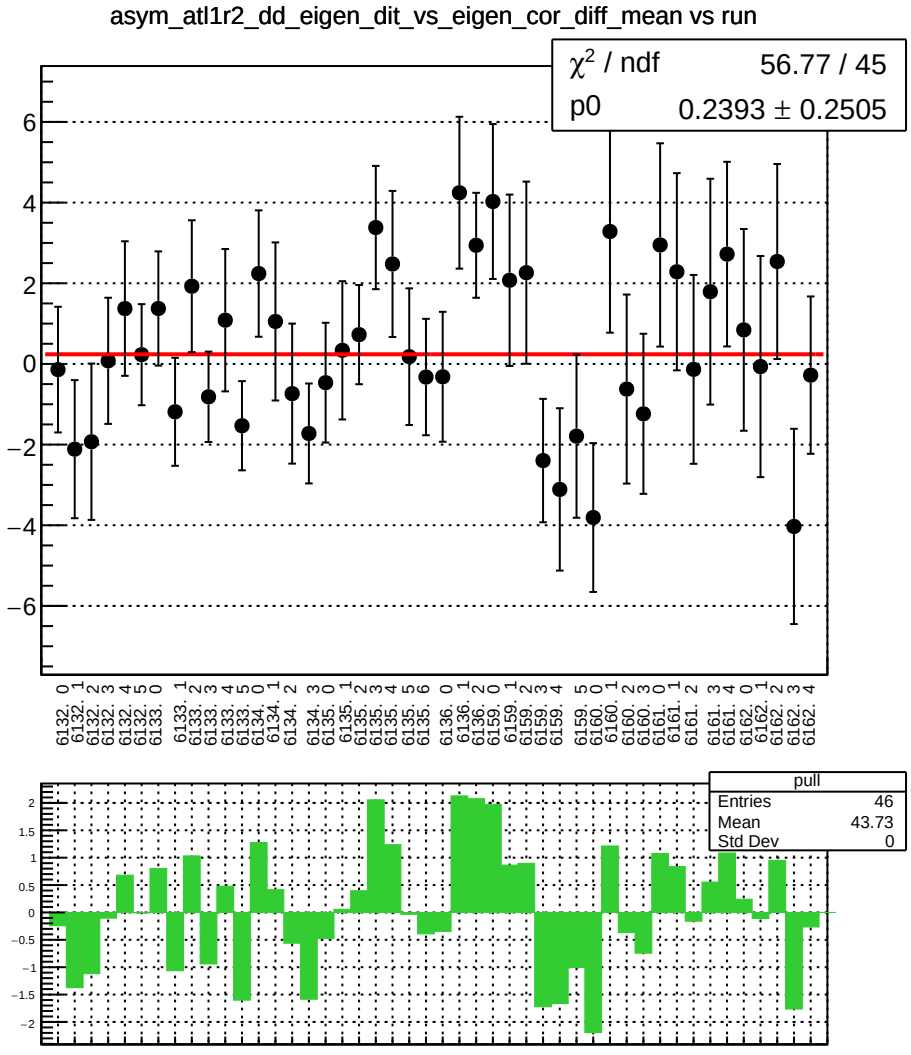

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 50.92 / 45
p0 1.716e−05 ± 3.049e−05
0.001
0.0005
0
−0.0005
−0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 87.09
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.06479
Std Dev 1.05
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

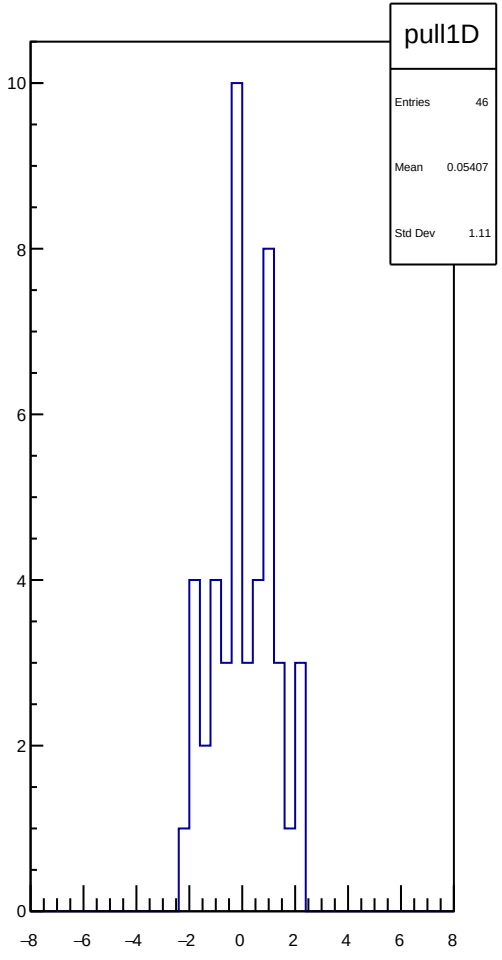

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.137e+04 / 45
p0 0.01972 ± 2.156e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

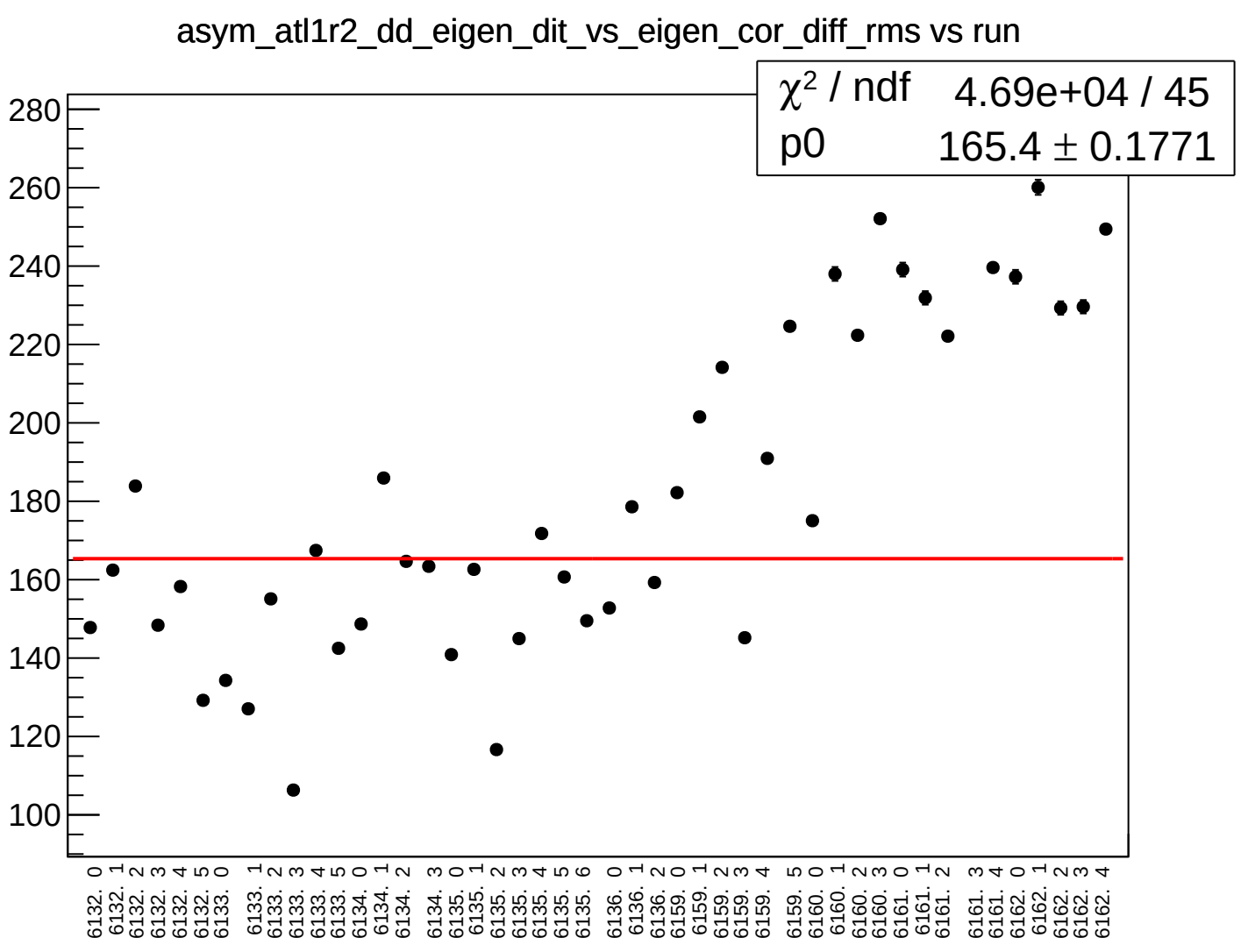

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 56.77 / 45
p0 0.2393 ± 0.2505
pull
Entries 46
Mean 43.73
Std Dev 0

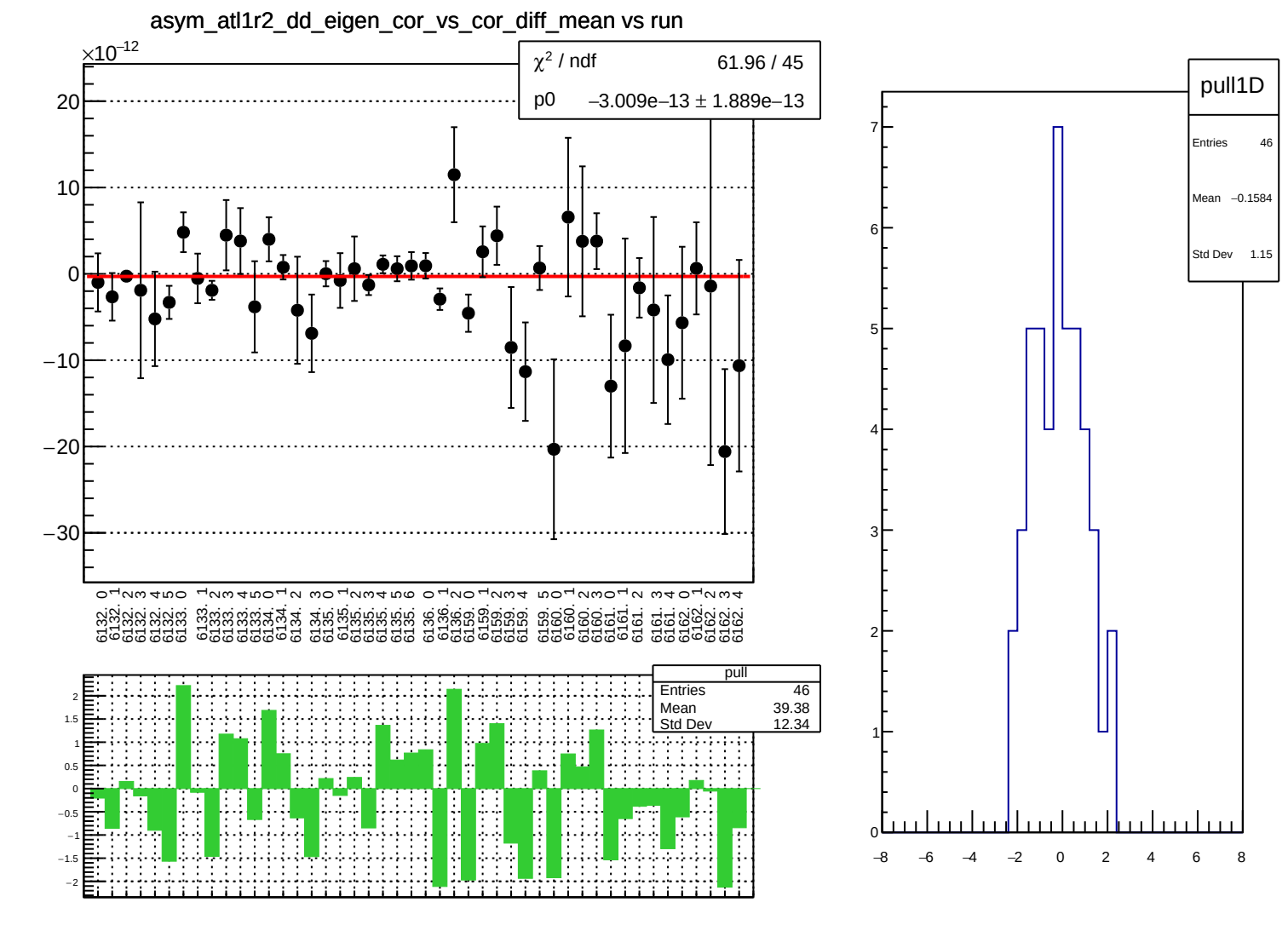

pull1D
Entries 46
Mean 0.05407
Std Dev 1.11

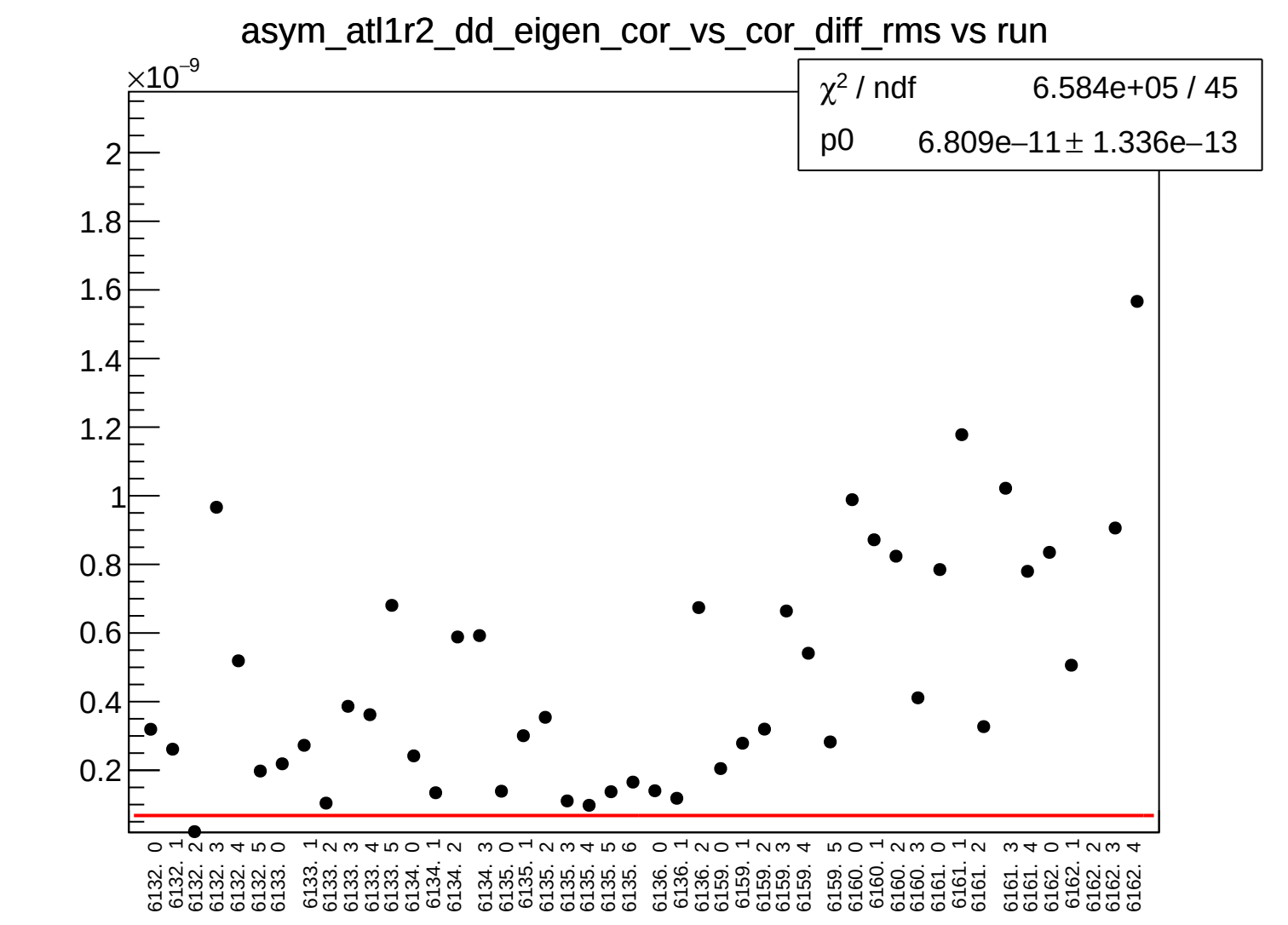

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.69e+04 / 45
p0 165.4 ± 0.1771
280
260
240
220
200
180
160
140
120
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

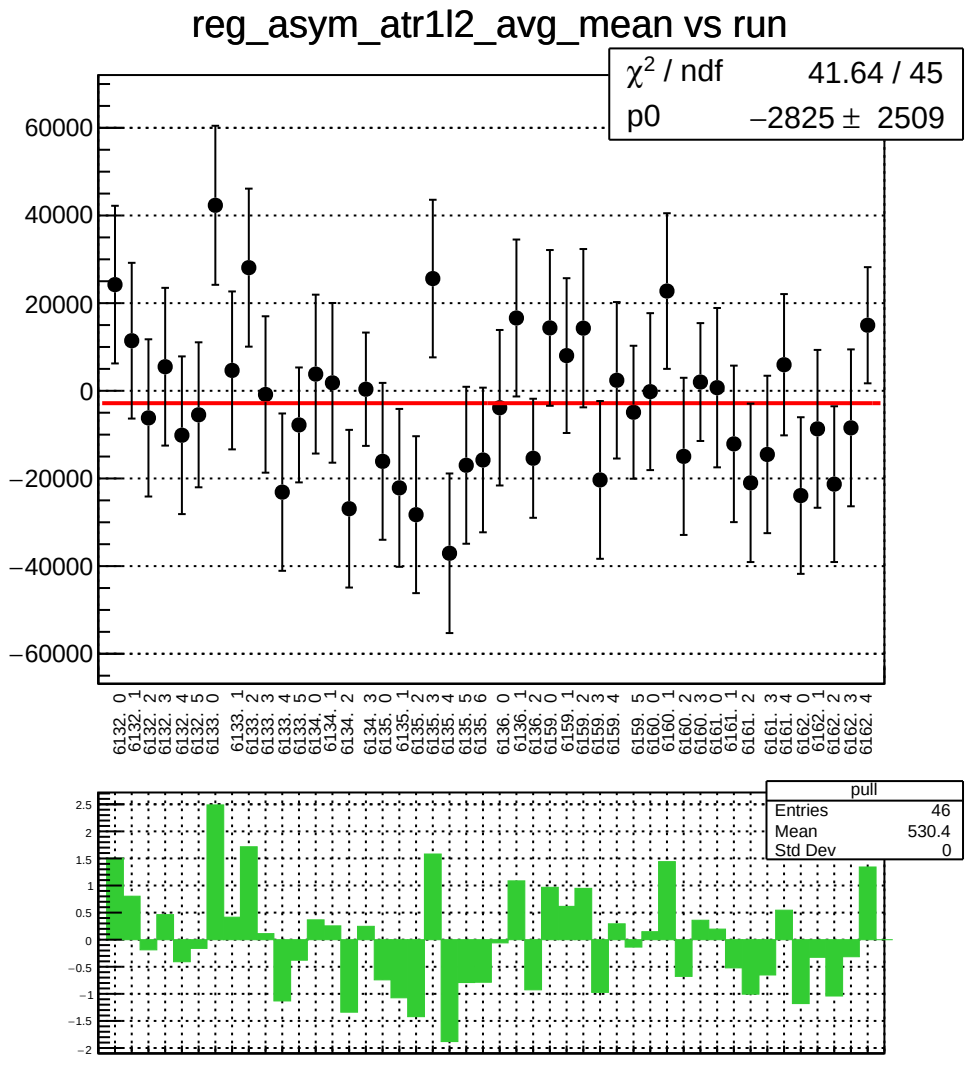

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56.77 / 45
p0 0.2393 ± 0.2505
pull
Entries 46
Mean 43.73
Std Dev 0

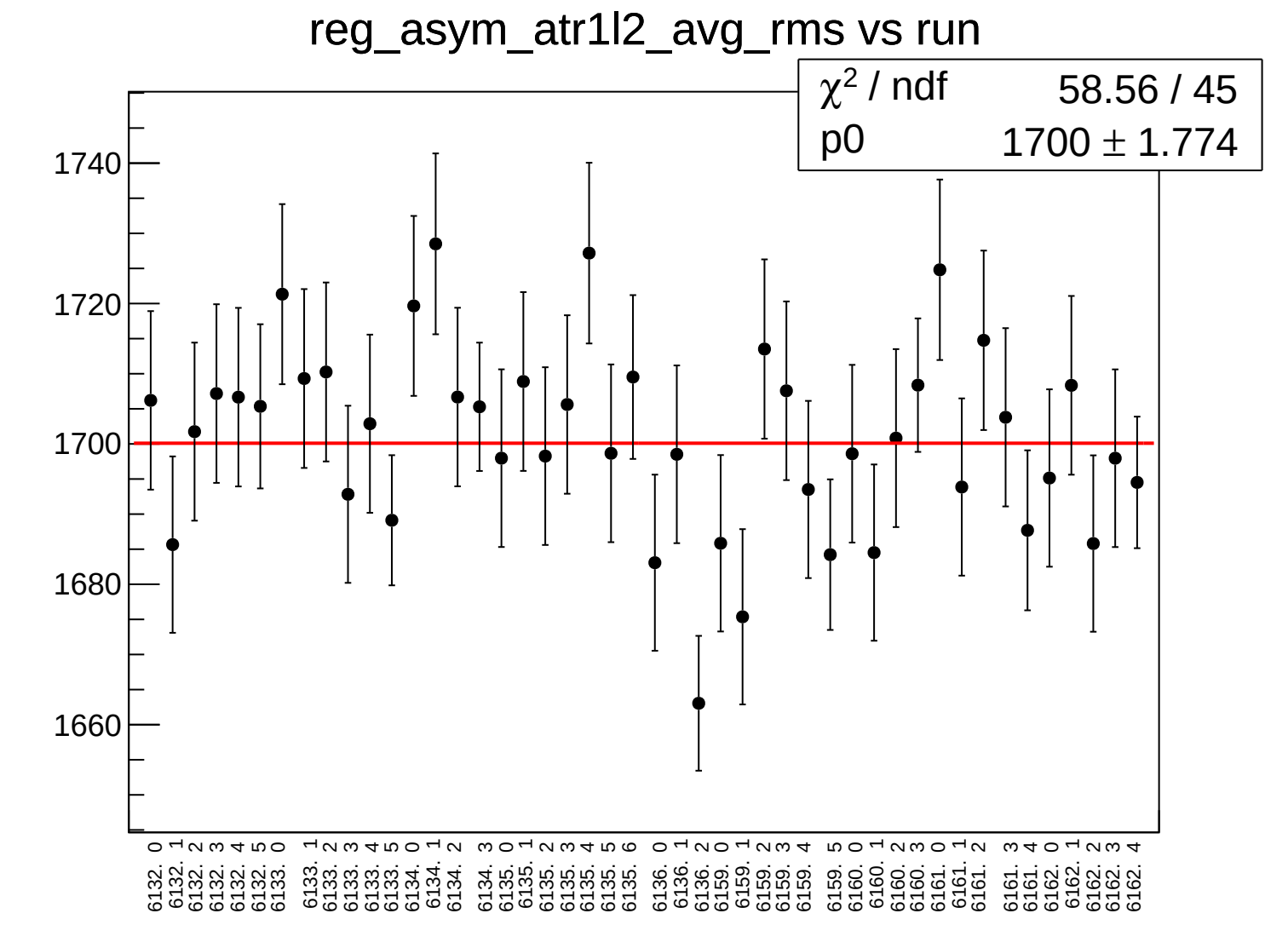

pull1D
Entries 46
Mean 0.05407
Std Dev 1.11

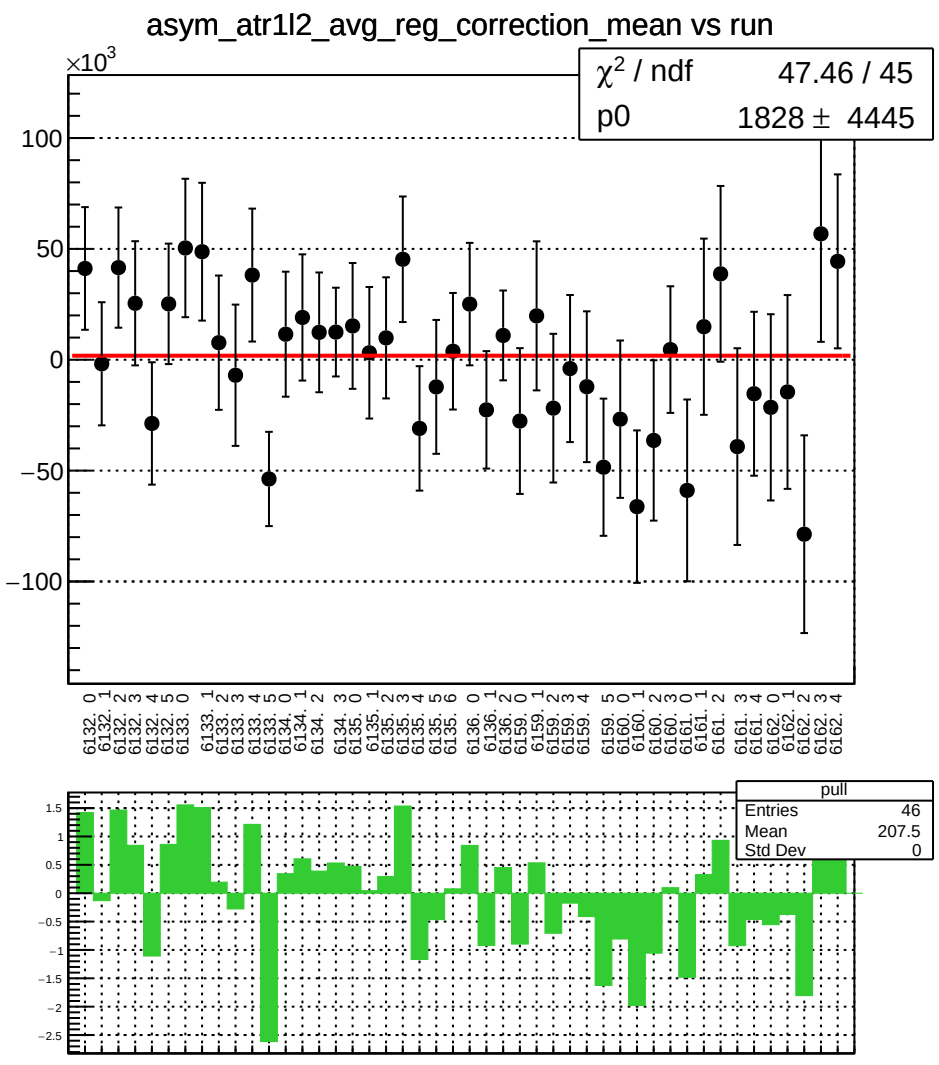

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.69e+04 / 45
p0 165.4 ± 0.1771
280
260
240
220
200
180
160
140
120
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

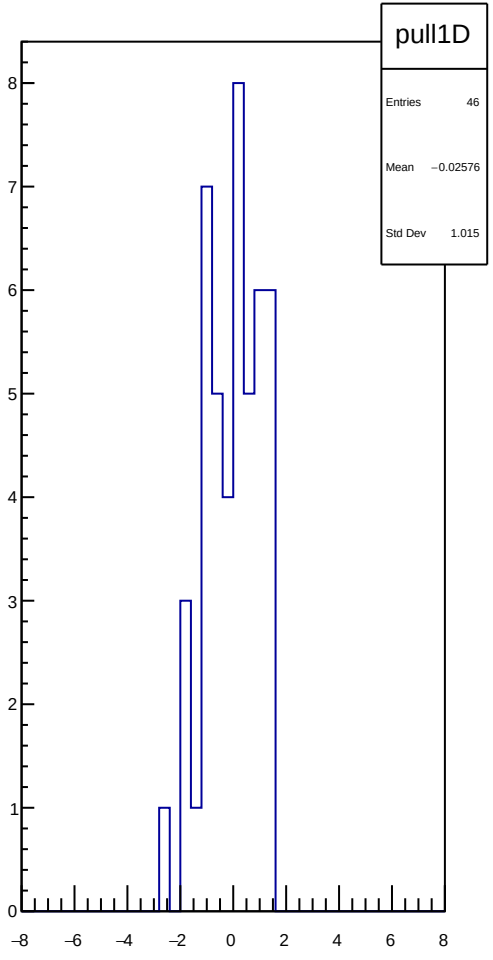

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 61.96 / 45
p0 −3.009e−13 ± 1.889e−13
pull
Entries 46
Mean 39.38
Std Dev 12.34
pull1D
Entries 46
Mean −0.1584
Std Dev 1.15

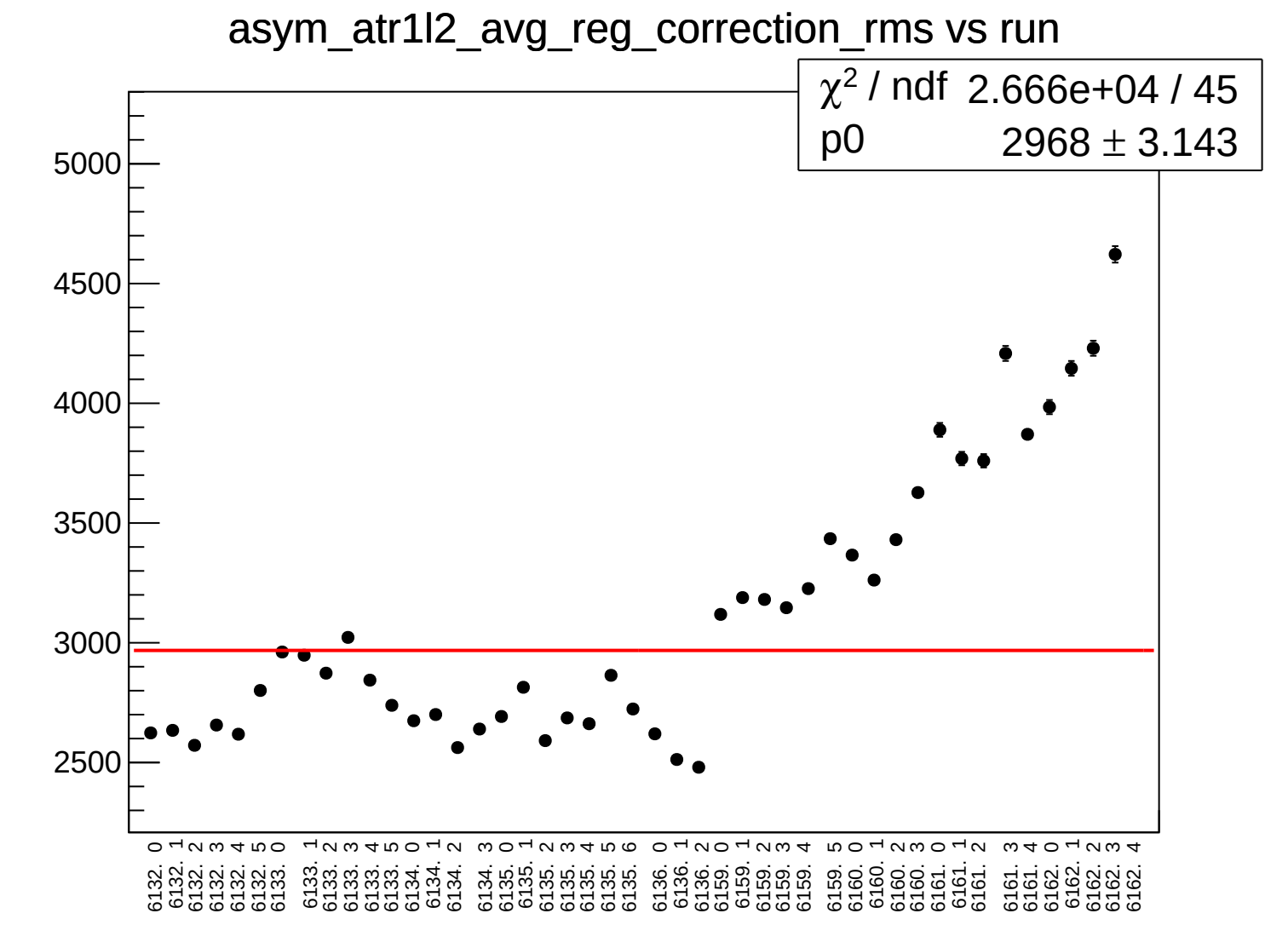

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.584e+05 / 45
p0 6.809e−11 ± 1.336e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_atr1l2_avg_mean vs run
χ² / ndf 41.64 / 45
p0 −2825 ± 2509
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 530.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.004686
Std Dev 0.9514
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_avg_rms vs run
χ² / ndf 58.56 / 45
p0 1700 ± 1.774
1740
1720
1700
1680
1660
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 47.46 / 45
p0 1828 ± 4445
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 207.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.02576
Std Dev 1.015
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 2.666e+04 / 45
p0 2968 ± 3.143
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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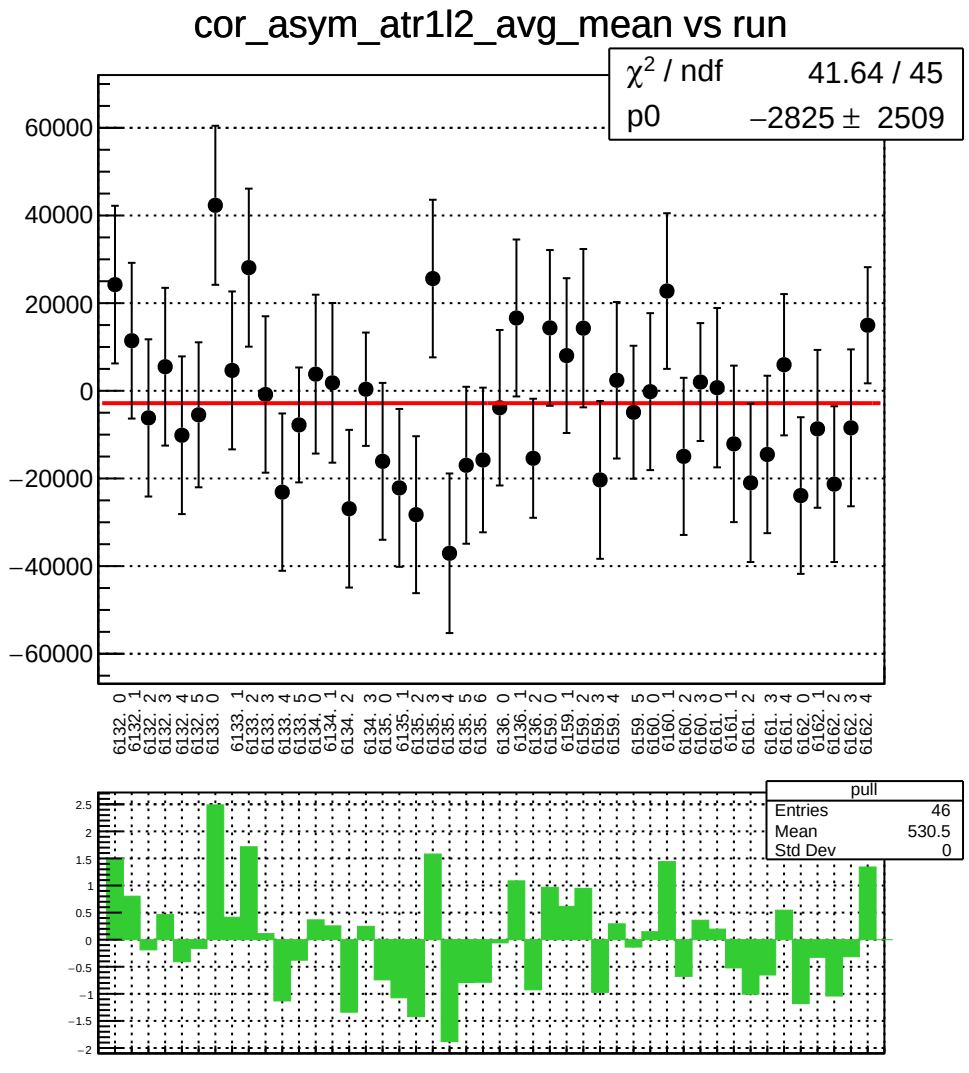
cor_asym_atr1l2_avg_mean vs run
χ² / ndf 41.64 / 45
p0 −2825 ± 2509
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
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6135. 6
6136. 0
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6136. 2
6159. 0
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 530.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.004685
Std Dev 0.9514
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5
4
3
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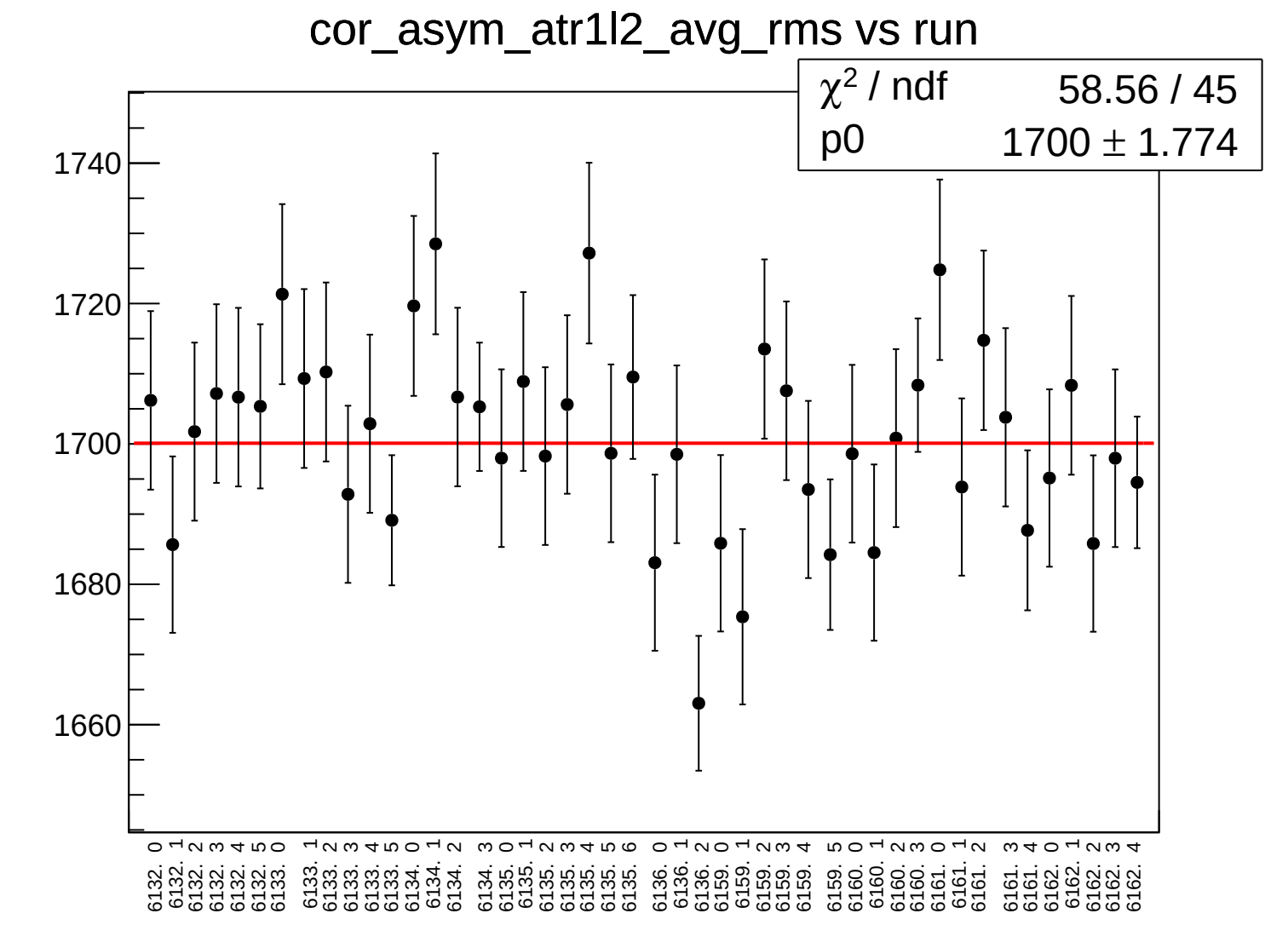
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr1l2_avg_rms vs run
χ² / ndf 58.56 / 45
p0 1700 ± 1.774
1740
1720
1700
1680
1660
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
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6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
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6159. 2
6159. 3
6159. 4
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6160. 0
6160. 1
6160. 2
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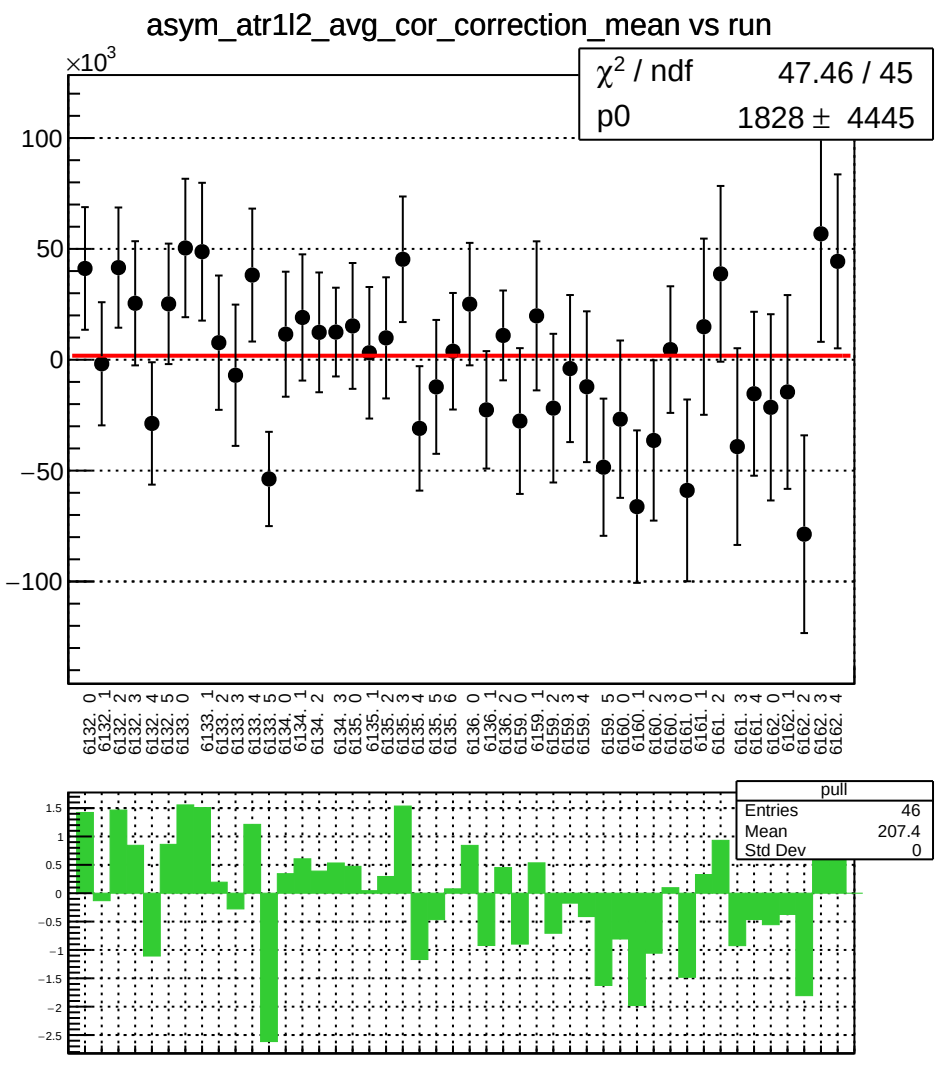
asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 47.46 / 45
p0 1828 ± 4445
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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6135. 2
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6135. 5
6135. 6
6136. 0
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6136. 2
6159. 0
6159. 1
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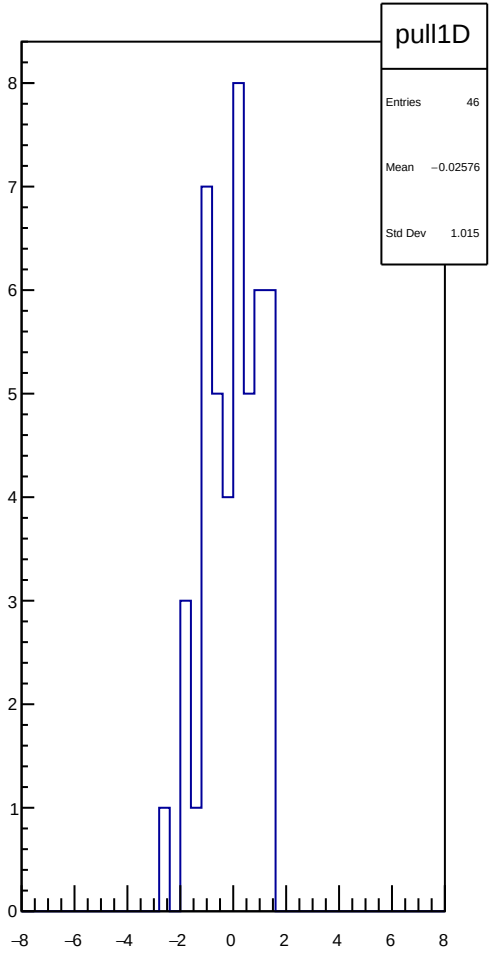
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 207.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.02576
Std Dev 1.015
8
7
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5
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1
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−8
−6
−4
−2
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2
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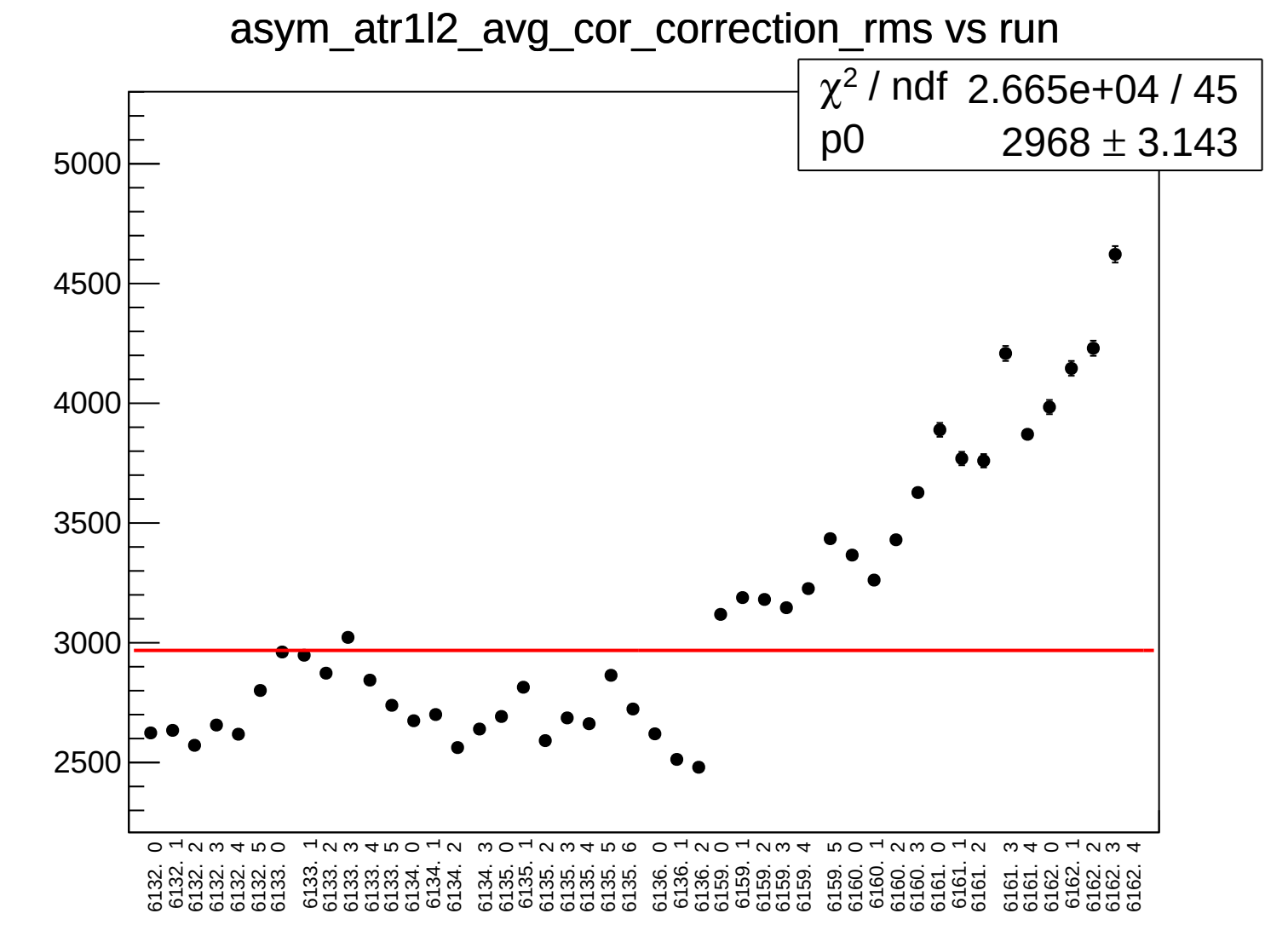
asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 2.665e+04 / 45
p0 2968 ± 3.143
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
6159. 0
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6159. 2
6159. 3
6159. 4
6159. 5
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6160. 1
6160. 2
6160. 3
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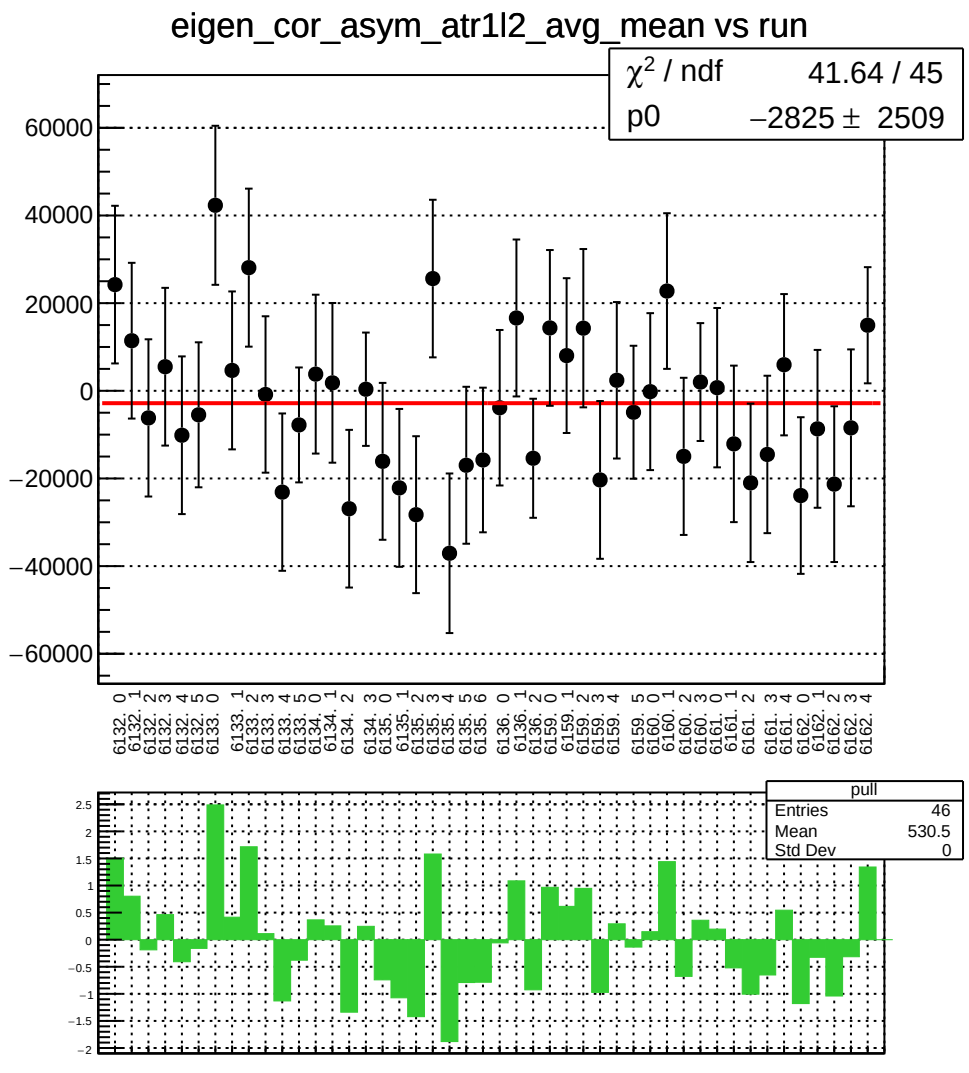
eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 41.64 / 45
p0 −2825 ± 2509
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
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6134. 3
6135. 0
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6160. 2
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6161. 1
6161. 2
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6161. 4
6162. 0
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6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 530.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.004685
Std Dev 0.9514
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7
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−4
−2
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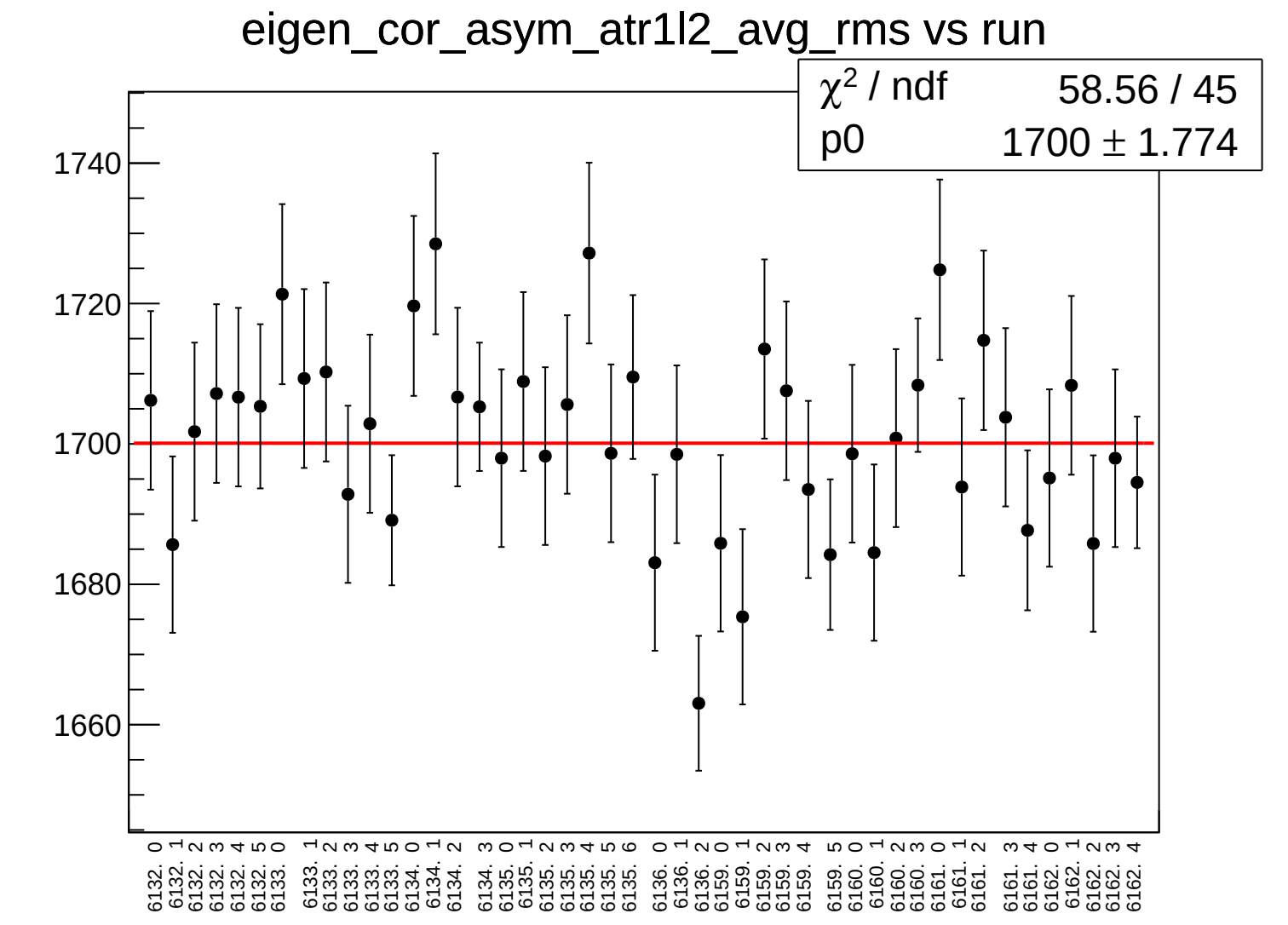
eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 58.56 / 45
p0 1700 ± 1.774
1740
1720
1700
1680
1660
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
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6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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6136. 0
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6160. 0
6160. 1
6160. 2
6160. 3
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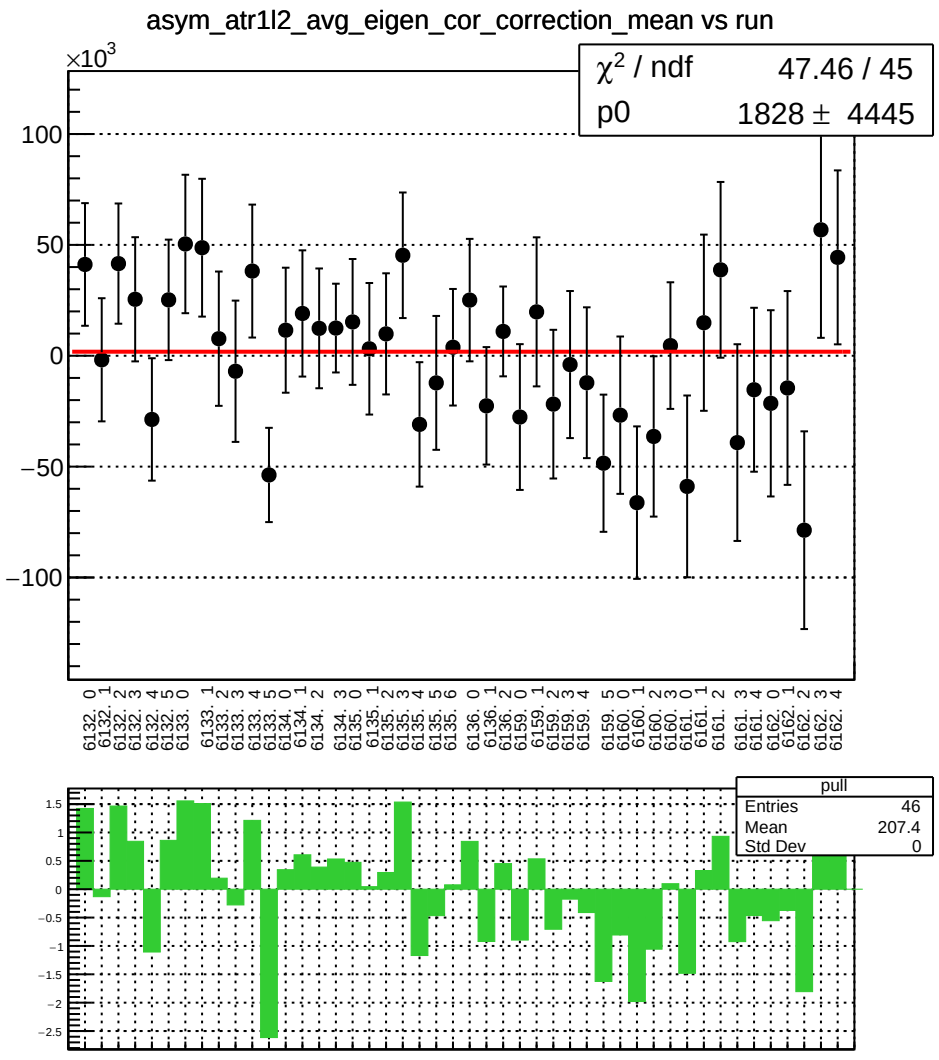
6162. 4


asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 47.46 / 45
p0 1828 ± 4445
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6134. 0
6134. 1
6134. 2
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6135. 0
6135. 1
6135. 2
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6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
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6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 207.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.02576
Std Dev 1.015
8
7
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5
4
3
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−8
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−4
−2
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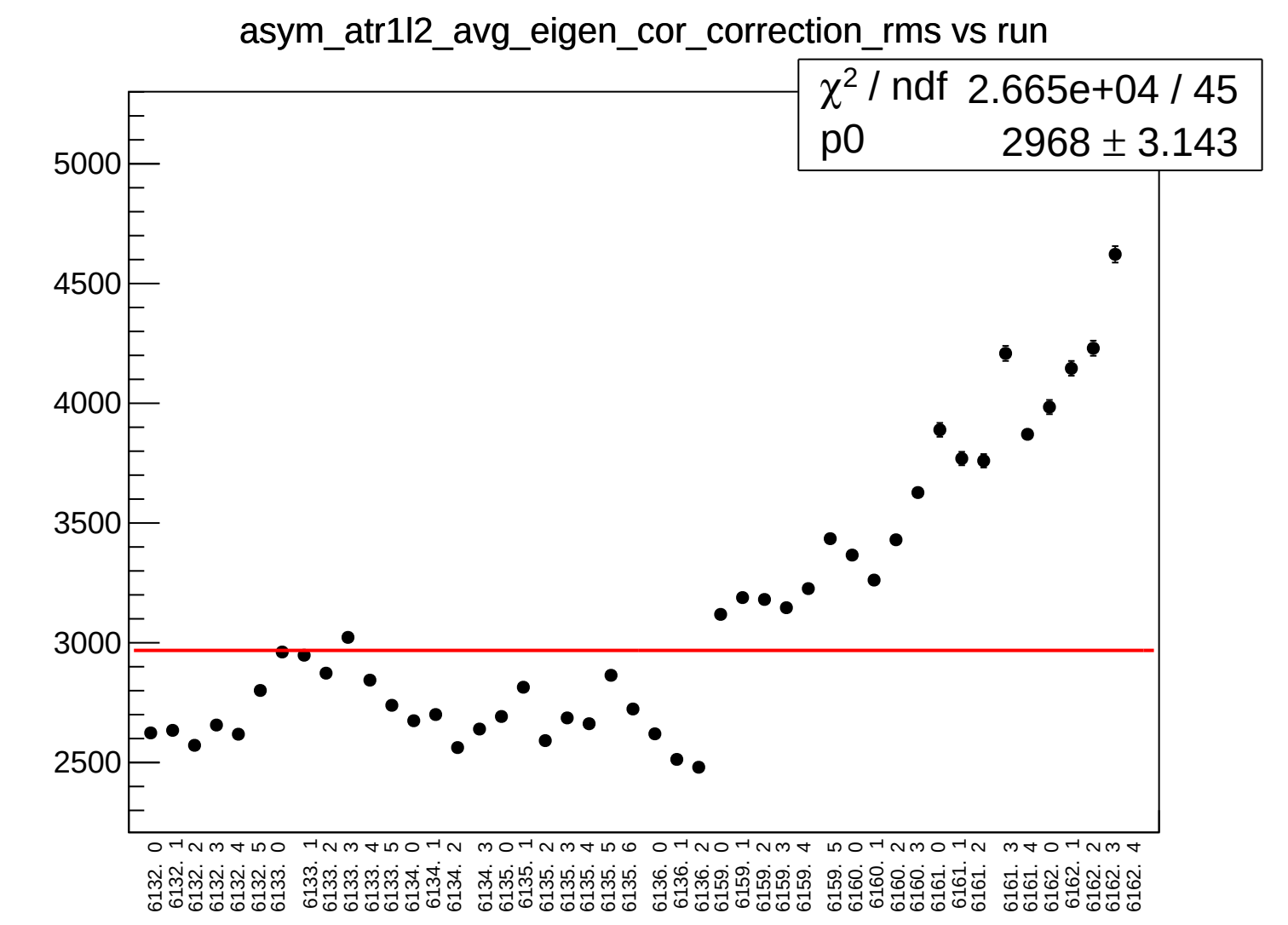
2
4
6
8


asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.665e+04 / 45
p0 2968 ± 3.143
5000
4500
4000
3500
3000
2500
6132. 0
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6132. 3
6132. 4
6132. 5
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6135. 4
6135. 5
6135. 6
6136. 0
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6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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6162. 0
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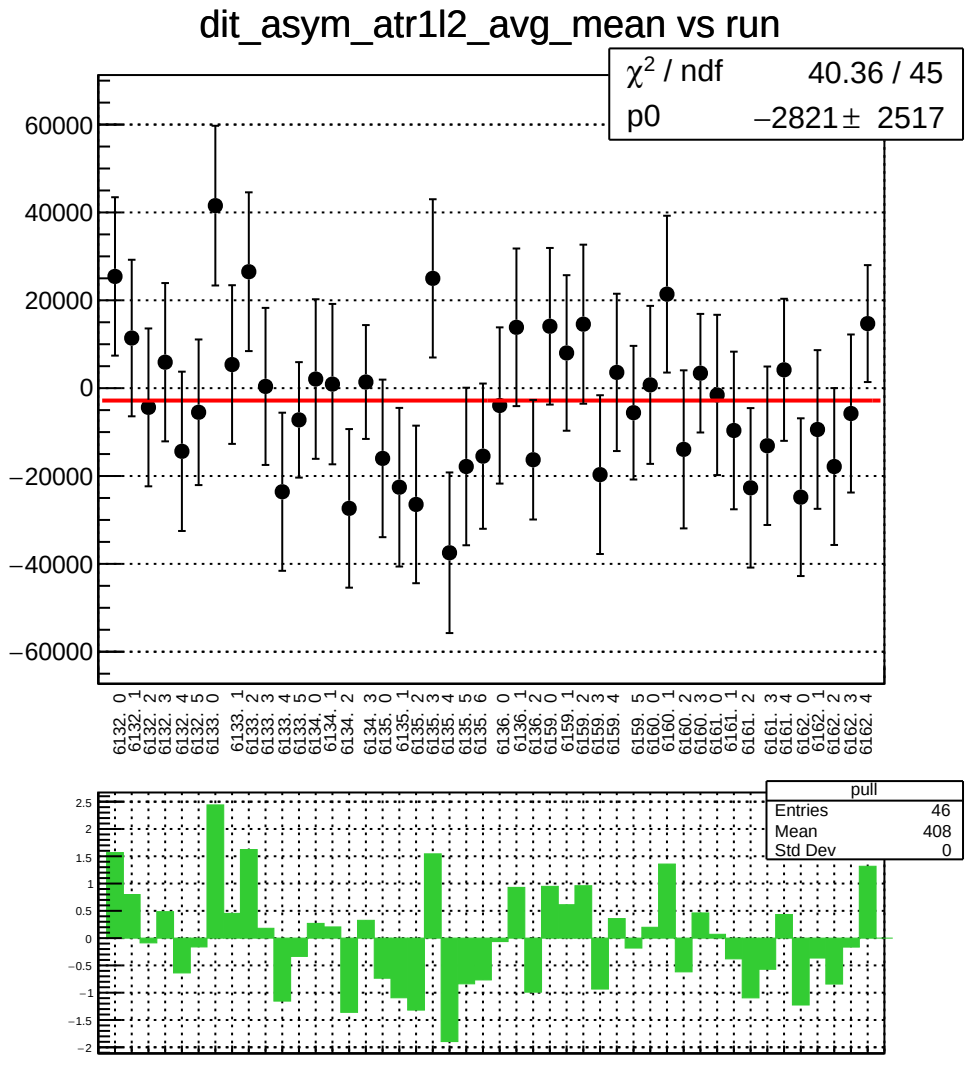
6162. 4


dit_asym_atr1l2_avg_mean vs run
χ² / ndf 40.36 / 45
p0 −2821 ± 2517
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
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6160. 2
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6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 408
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.005796
Std Dev 0.9366
8
7
6
5
4
3
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1
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−8
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−4
−2
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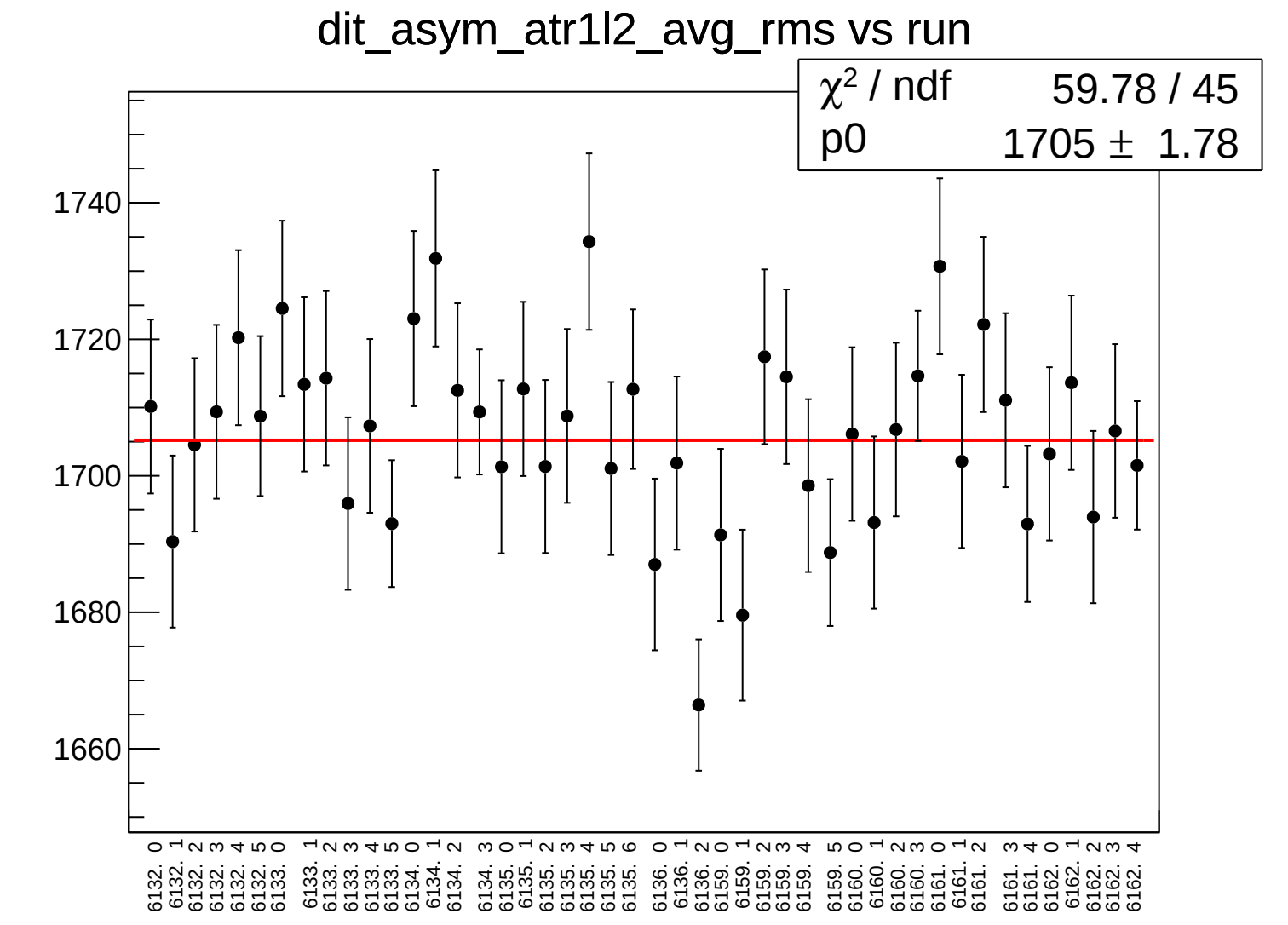
2
4
6
8


dit_asym_atr1l2_avg_rms vs run
χ² / ndf 59.78 / 45
p0 1705 ± 1.78
1740
1720
1700
1680
1660
6132. 0
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6132. 2
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6159. 5
6160. 0
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6162. 0
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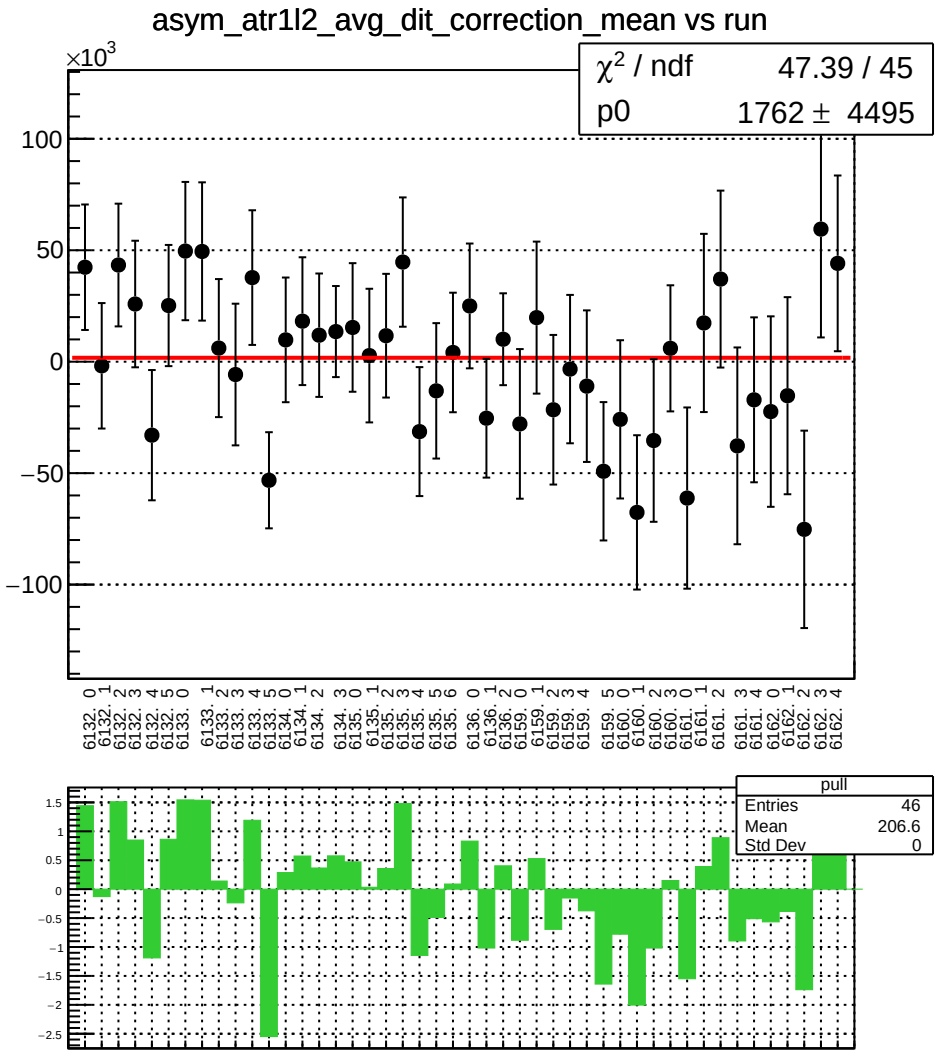
6162. 4


asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 47.39 / 45
p0 1762 ± 4495
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6161. 4
6162. 0
6162. 1
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6162. 4
pull
Entries 46
Mean 206.6
Std Dev 0
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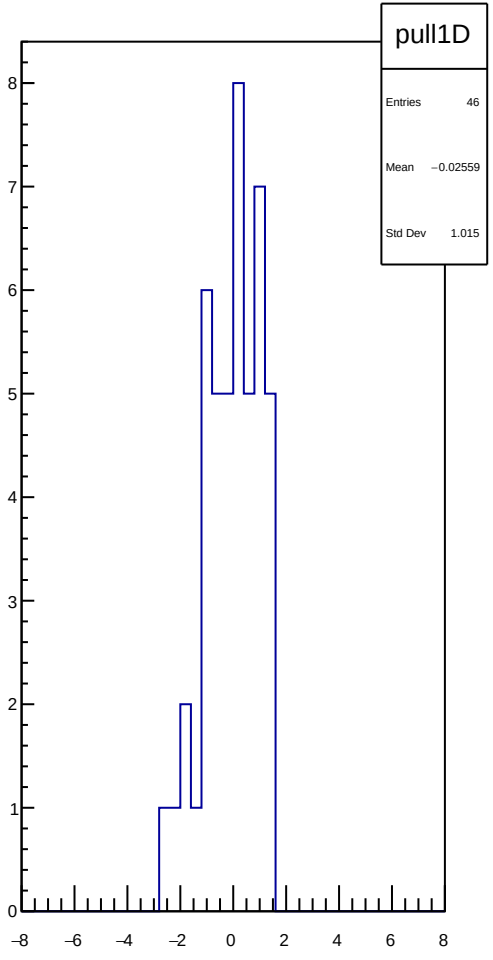
−2
−2.5


pull1D
Entries 46
Mean −0.02559
Std Dev 1.015
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−4
−2
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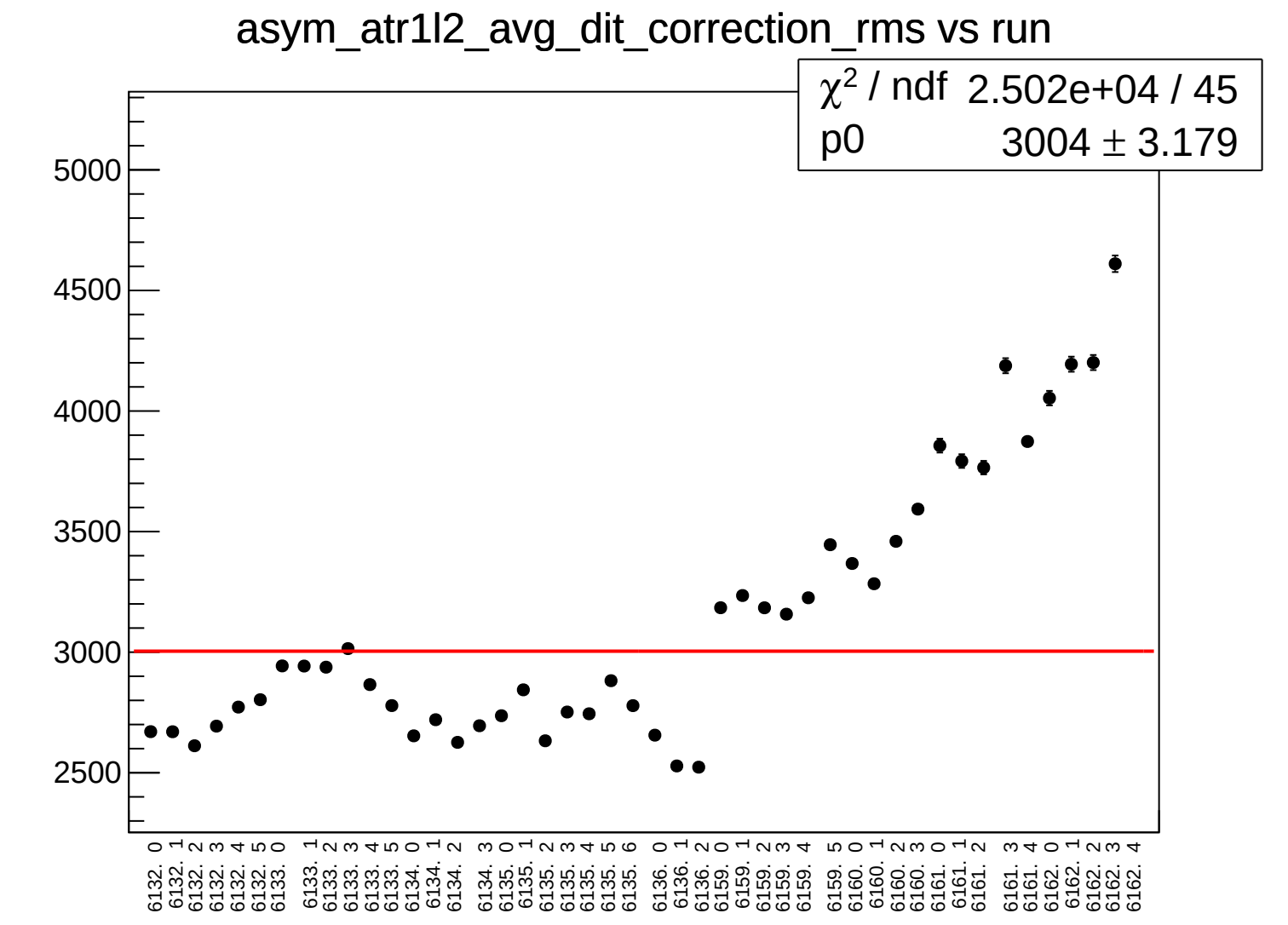
6
8


asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 2.502e+04 / 45
p0 3004 ± 3.179
5000
4500
4000
3500
3000
2500
6132. 0
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6132. 3
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6132. 5
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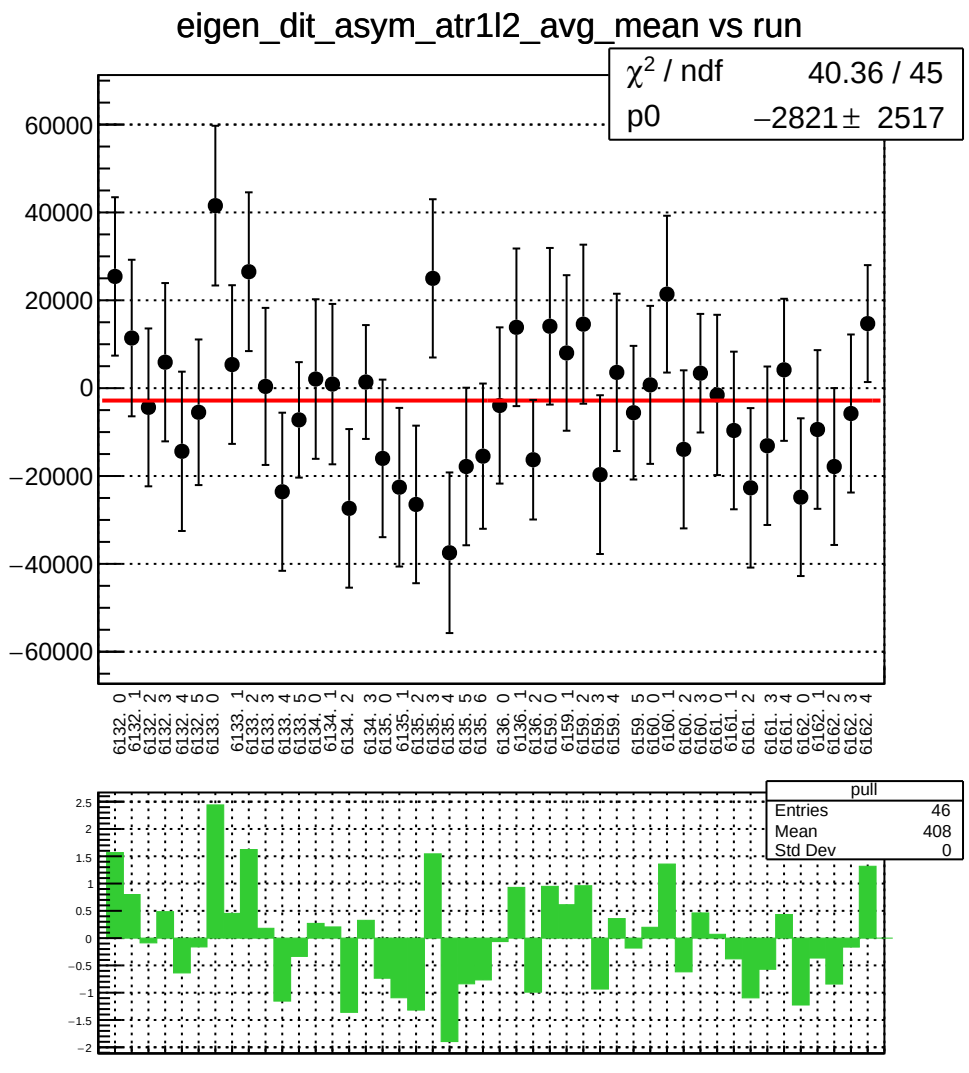
6162. 4


eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 40.36 / 45
p0 −2821 ± 2517
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 408
Std Dev 0
2.5
2
1.5
1
0.5
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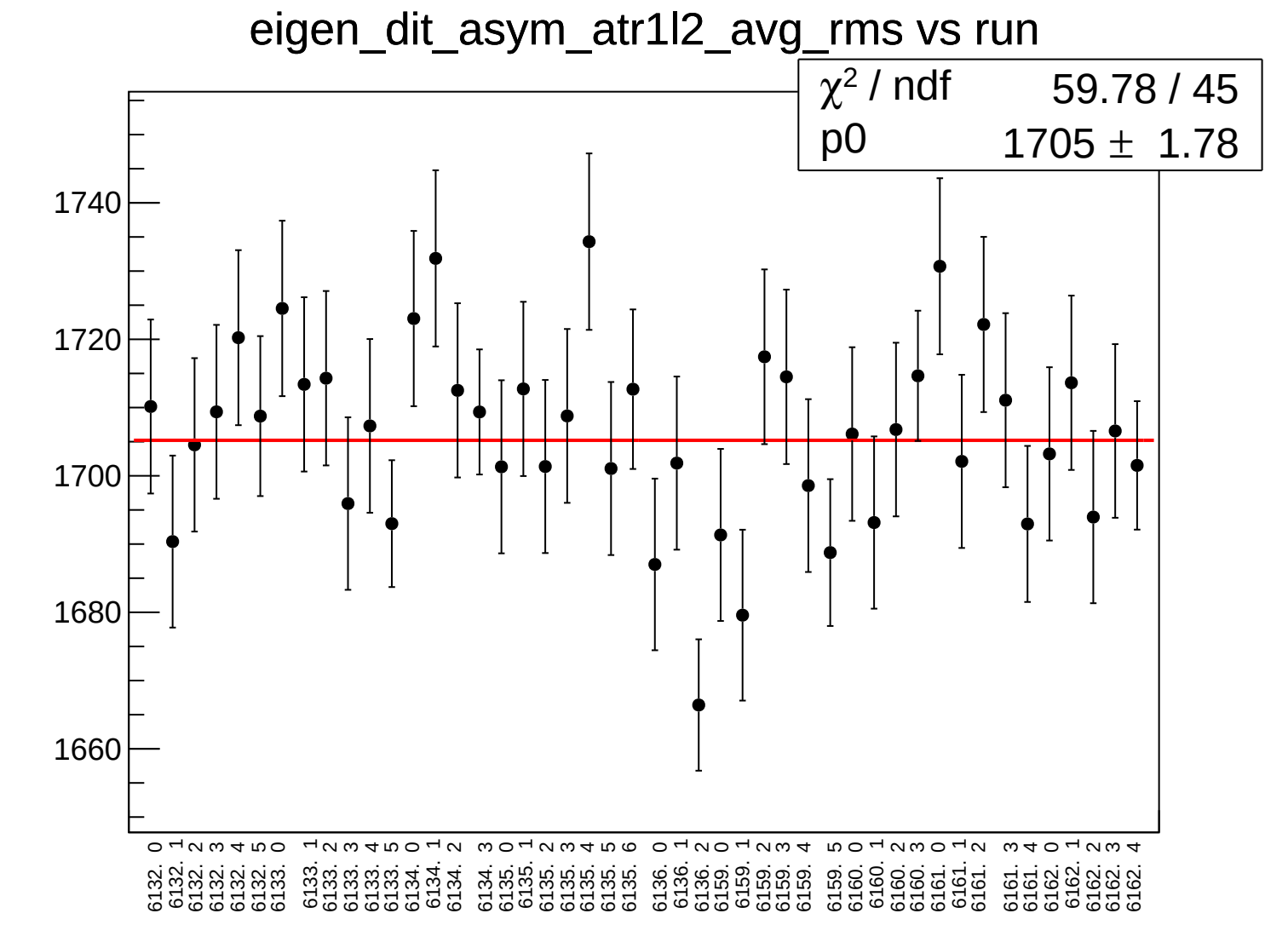
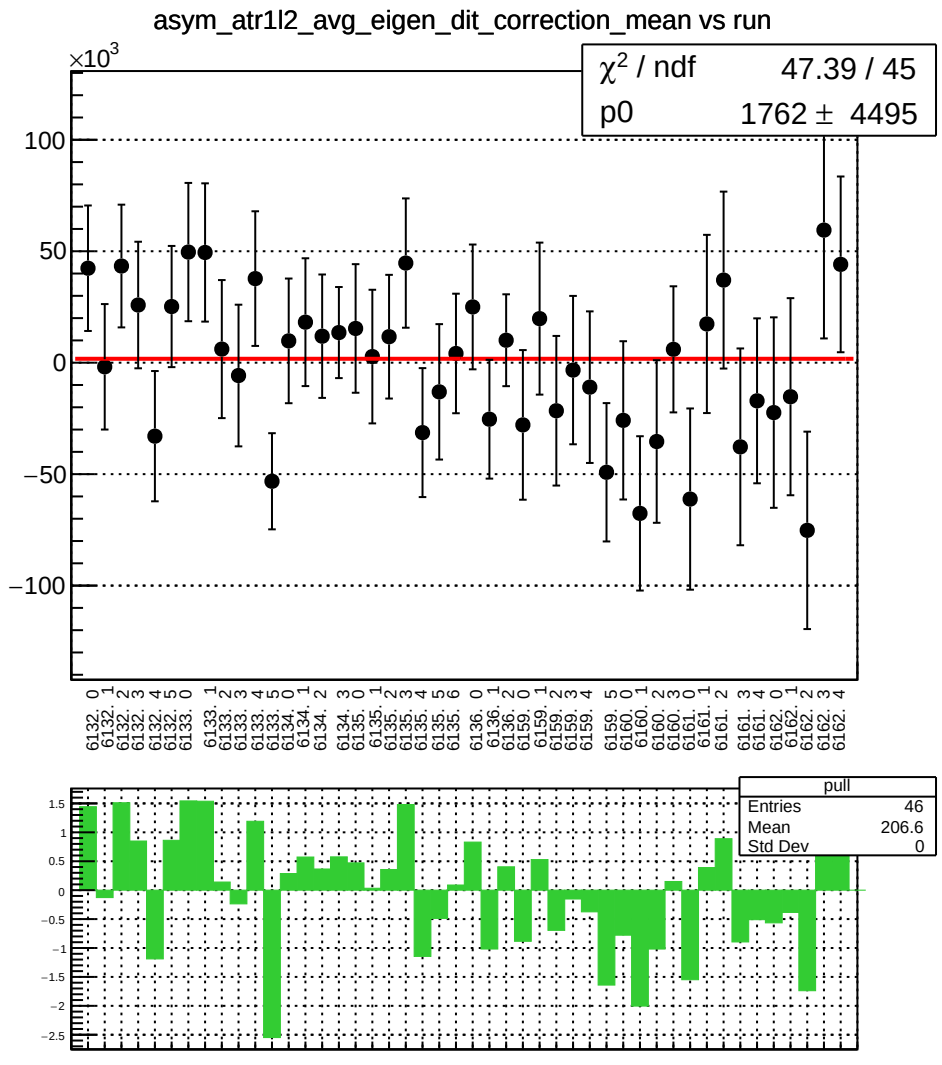
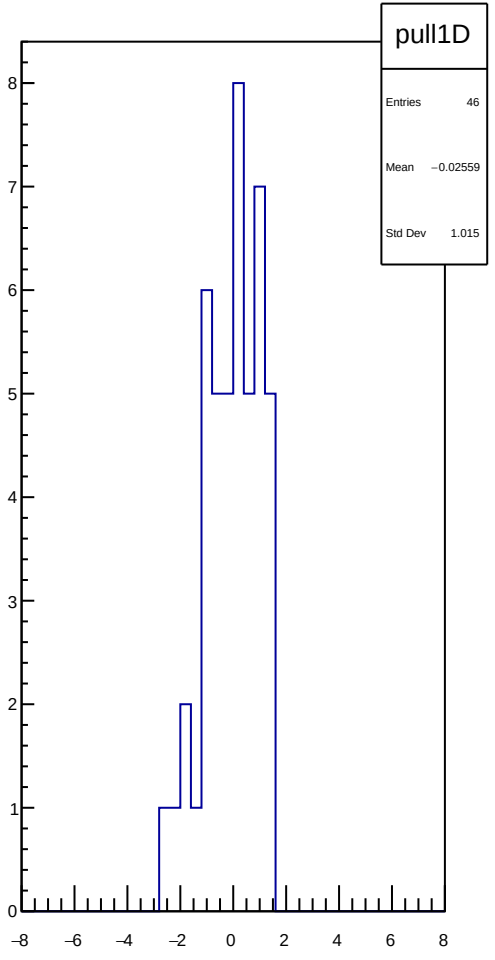
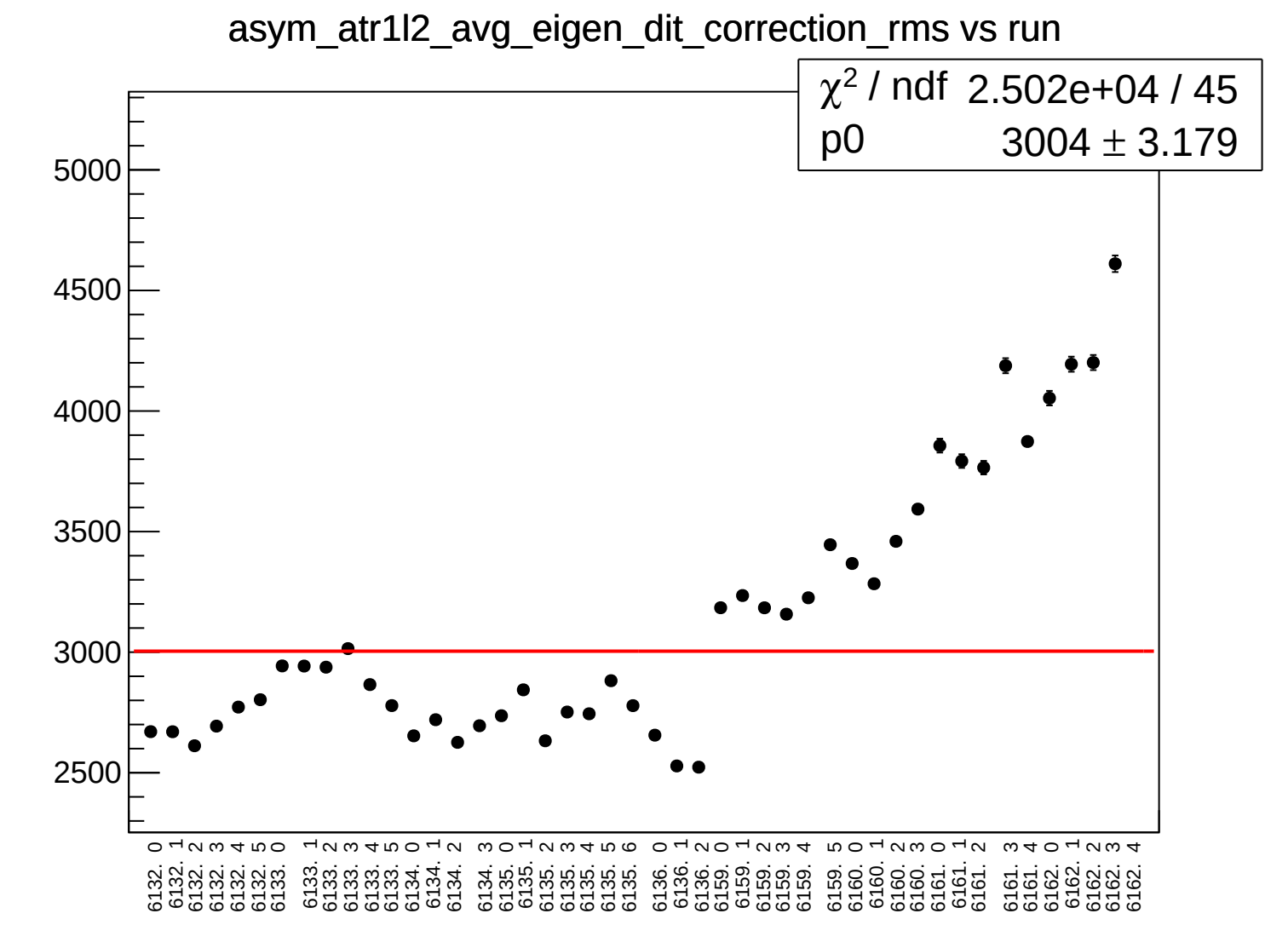
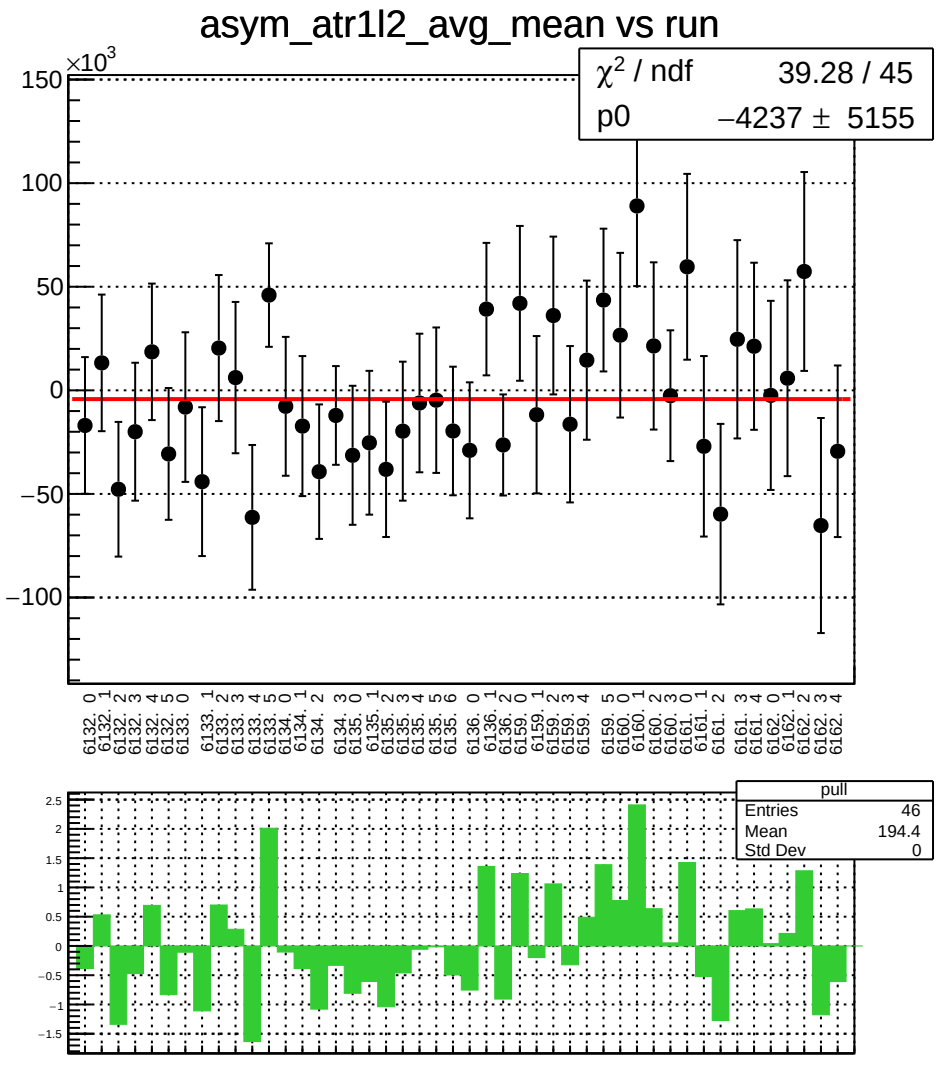
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.005796
Std Dev 0.9366
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

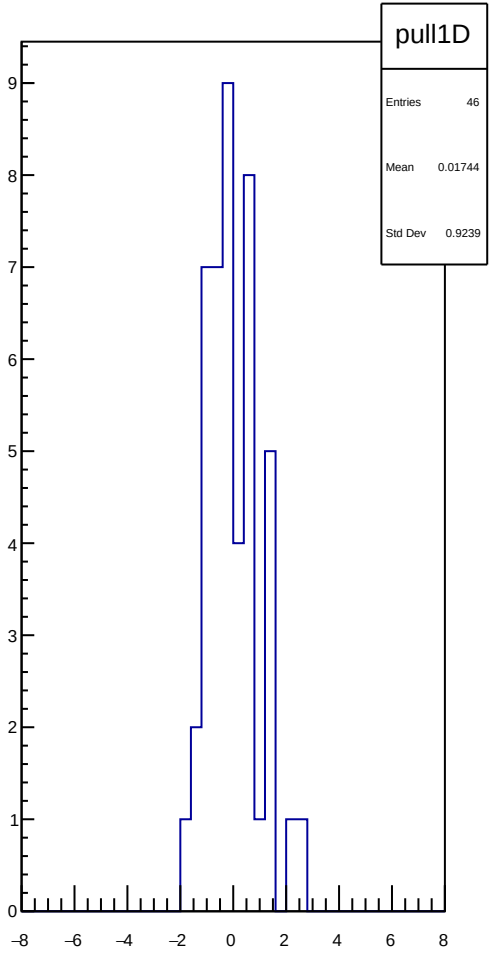

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 59.78 / 45
p0 1705 ± 1.78
1740
1720
1700
1680
1660
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

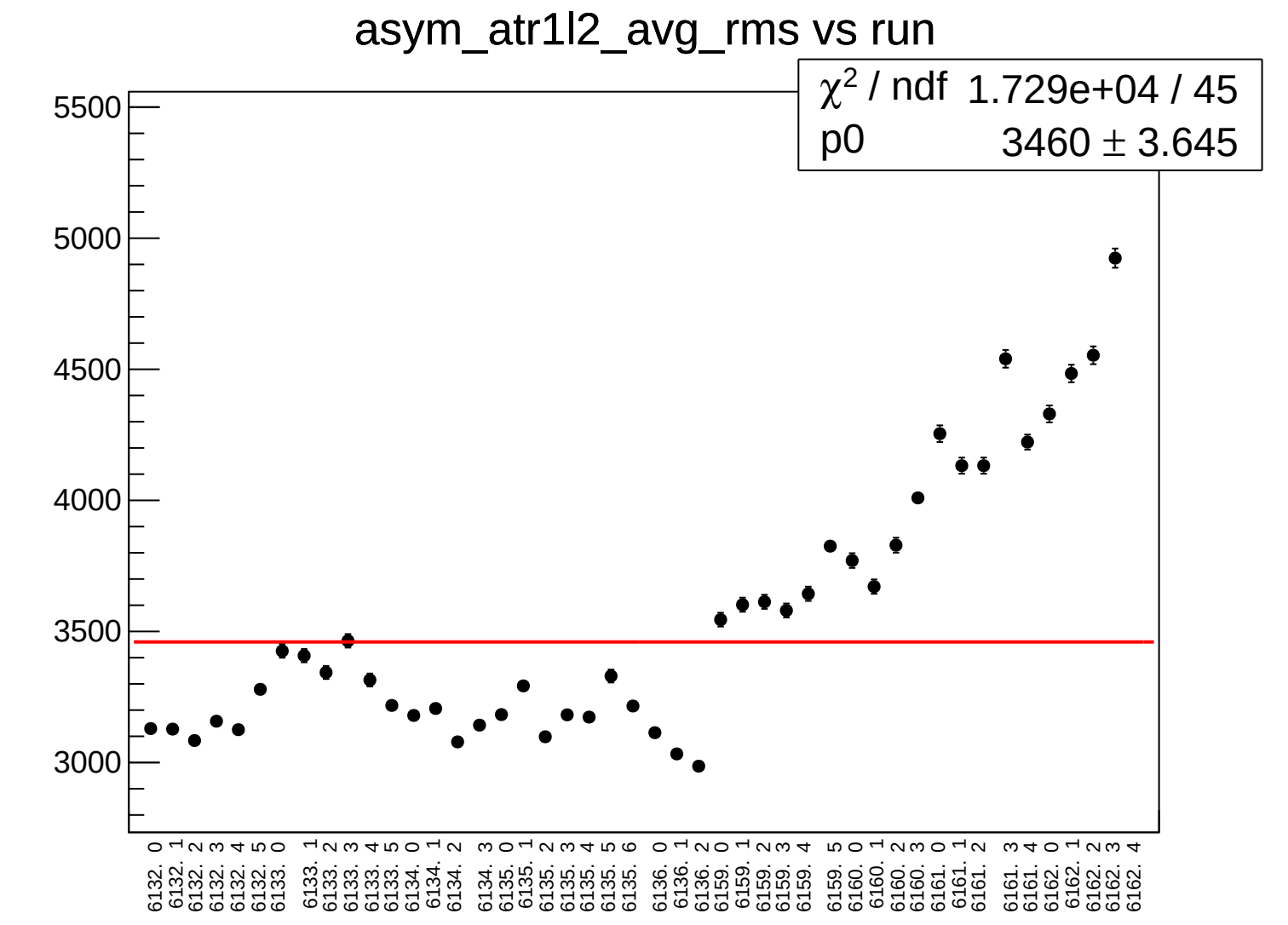

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 47.39 / 45
p0 1762 ± 4495
100
50
0
−50
−100
pull
Entries 46
Mean 206.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

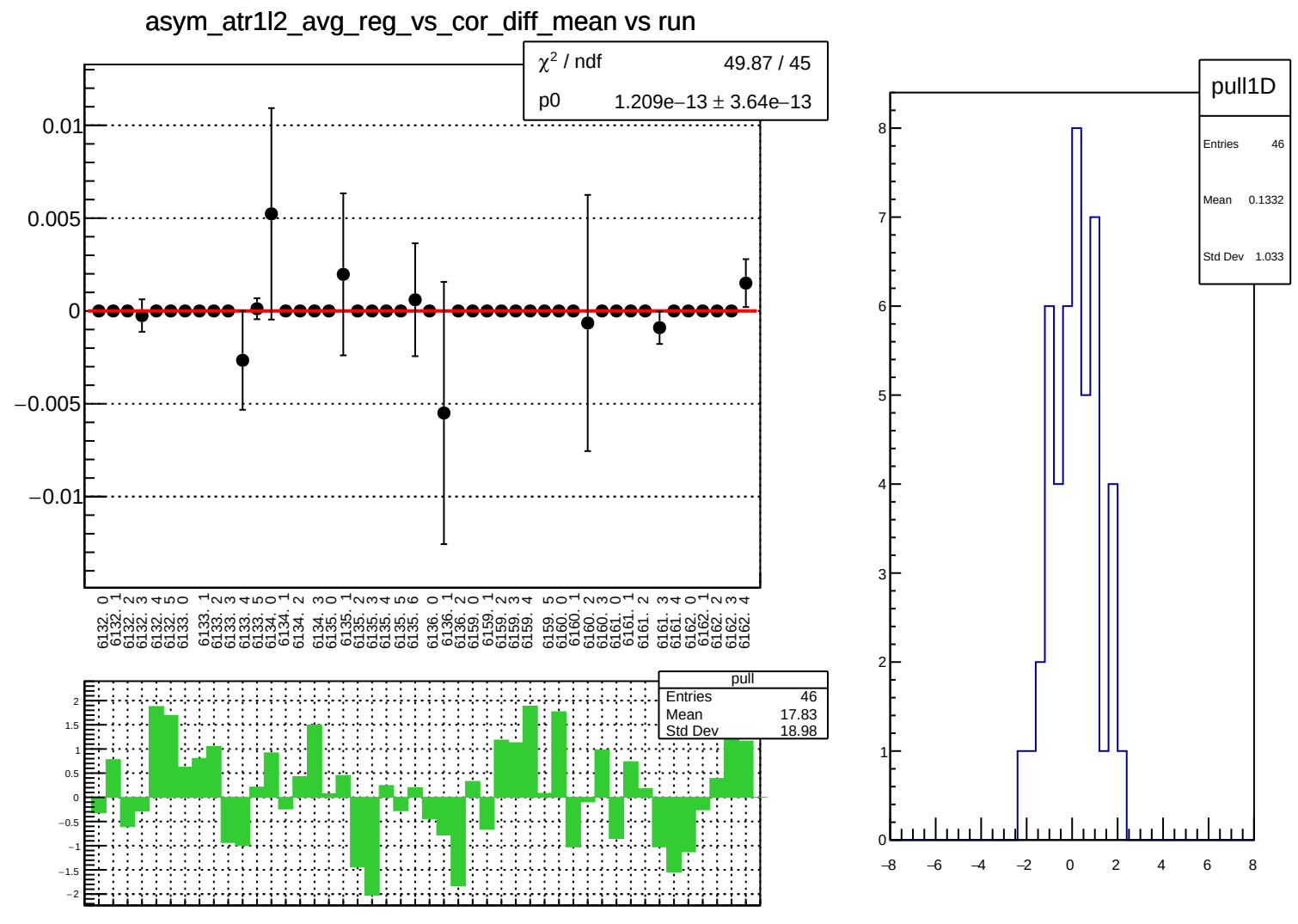

pull1D
Entries 46
Mean −0.02559
Std Dev 1.015
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

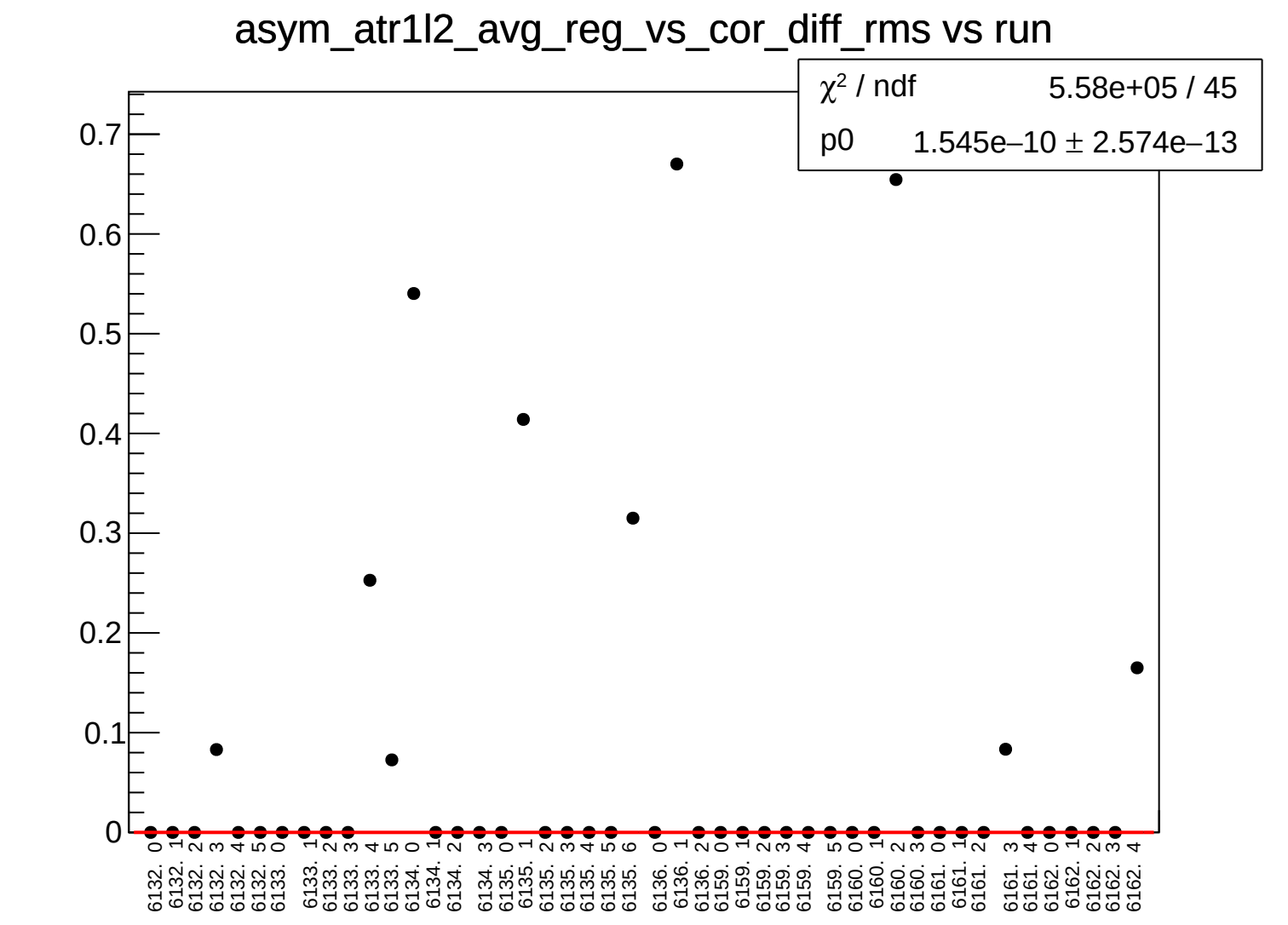

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.502e+04 / 45
p0 3004 ± 3.179
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

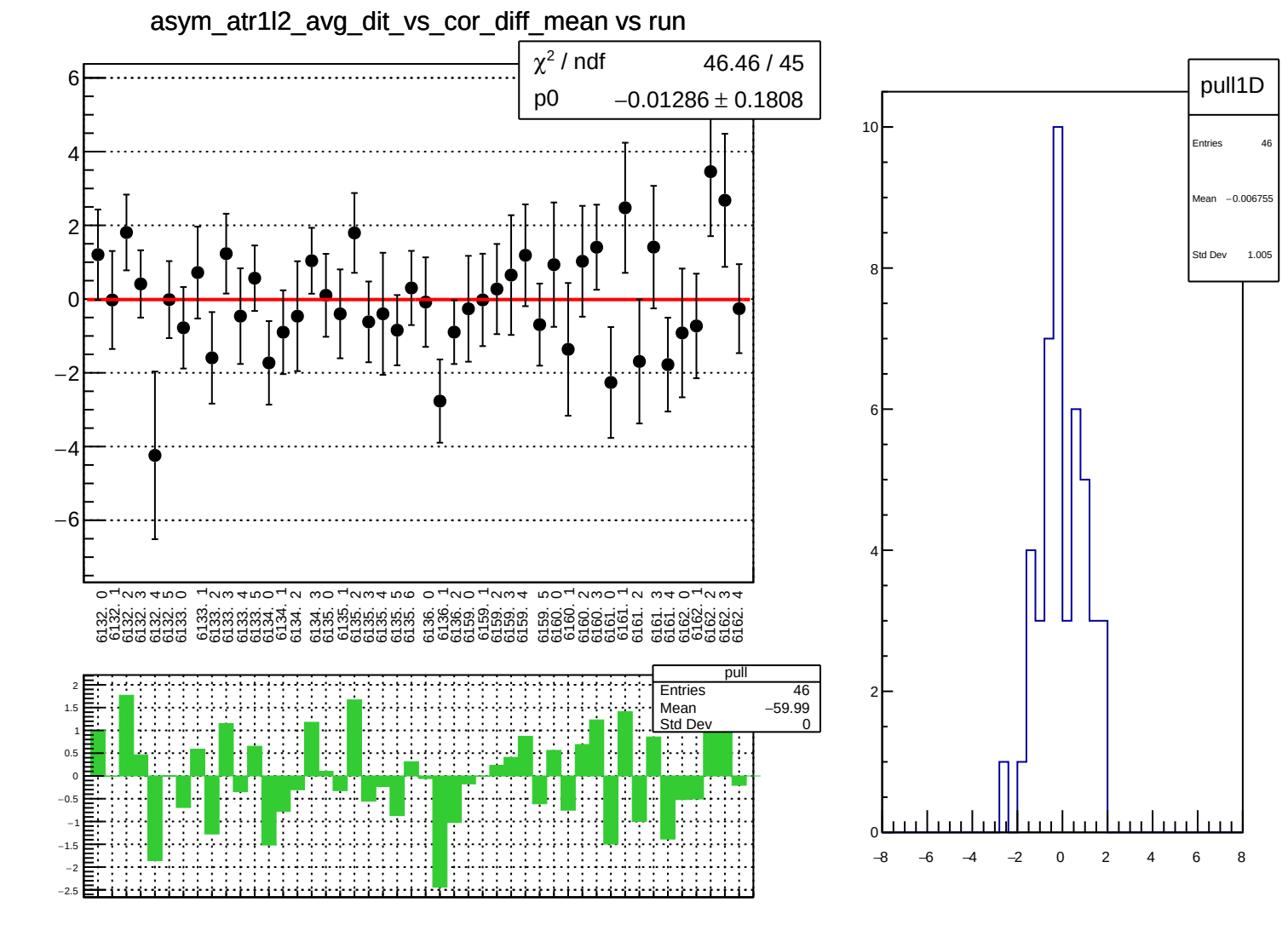

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 39.28 / 45
p0 −4237 ± 5155
150
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6136. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 194.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

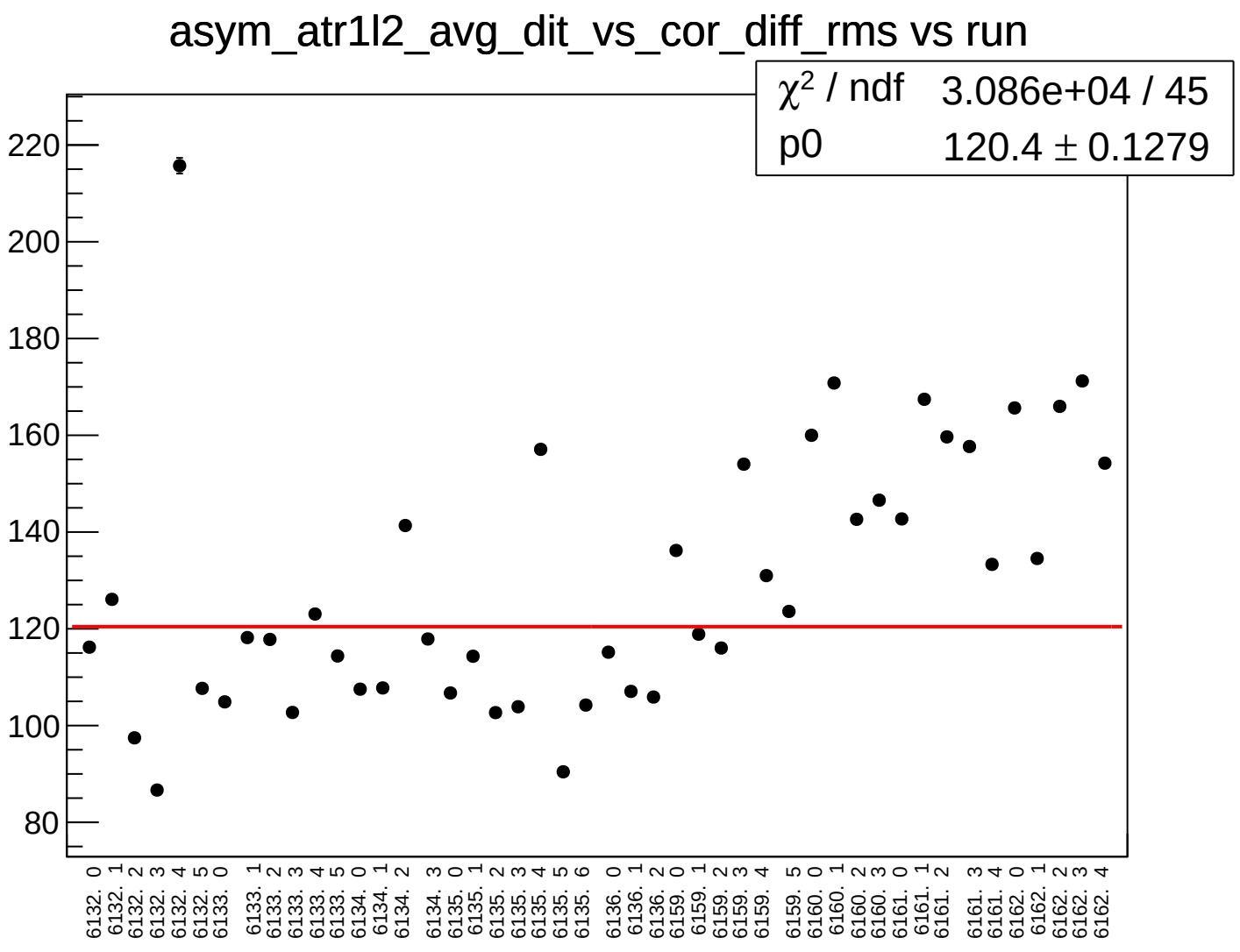

pull1D
Entries 46
Mean 0.01744
Std Dev 0.9239
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

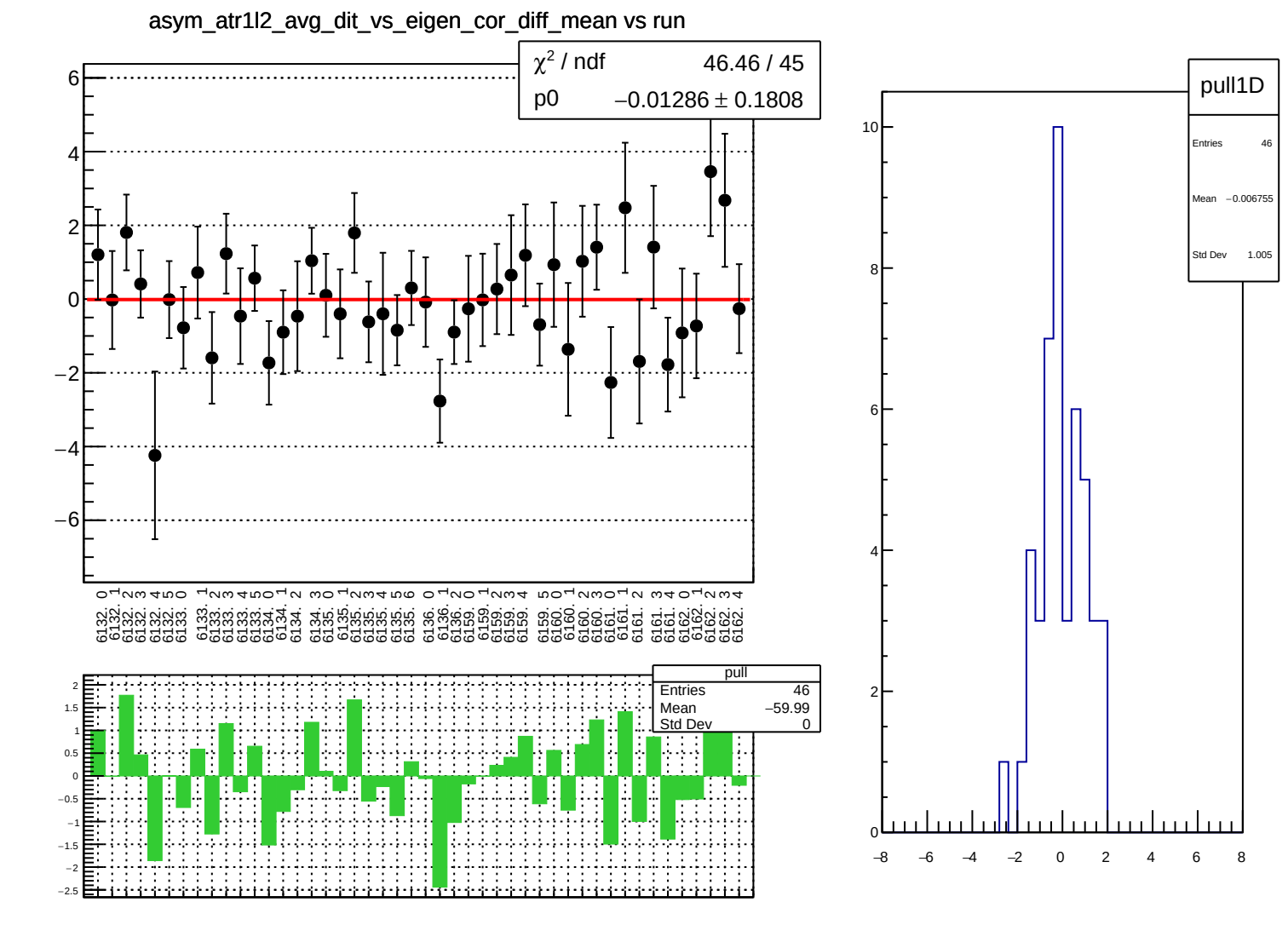

asym_atr1l2_avg_rms vs run
χ² / ndf 1.729e+04 / 45
p0 3460 ± 3.645
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

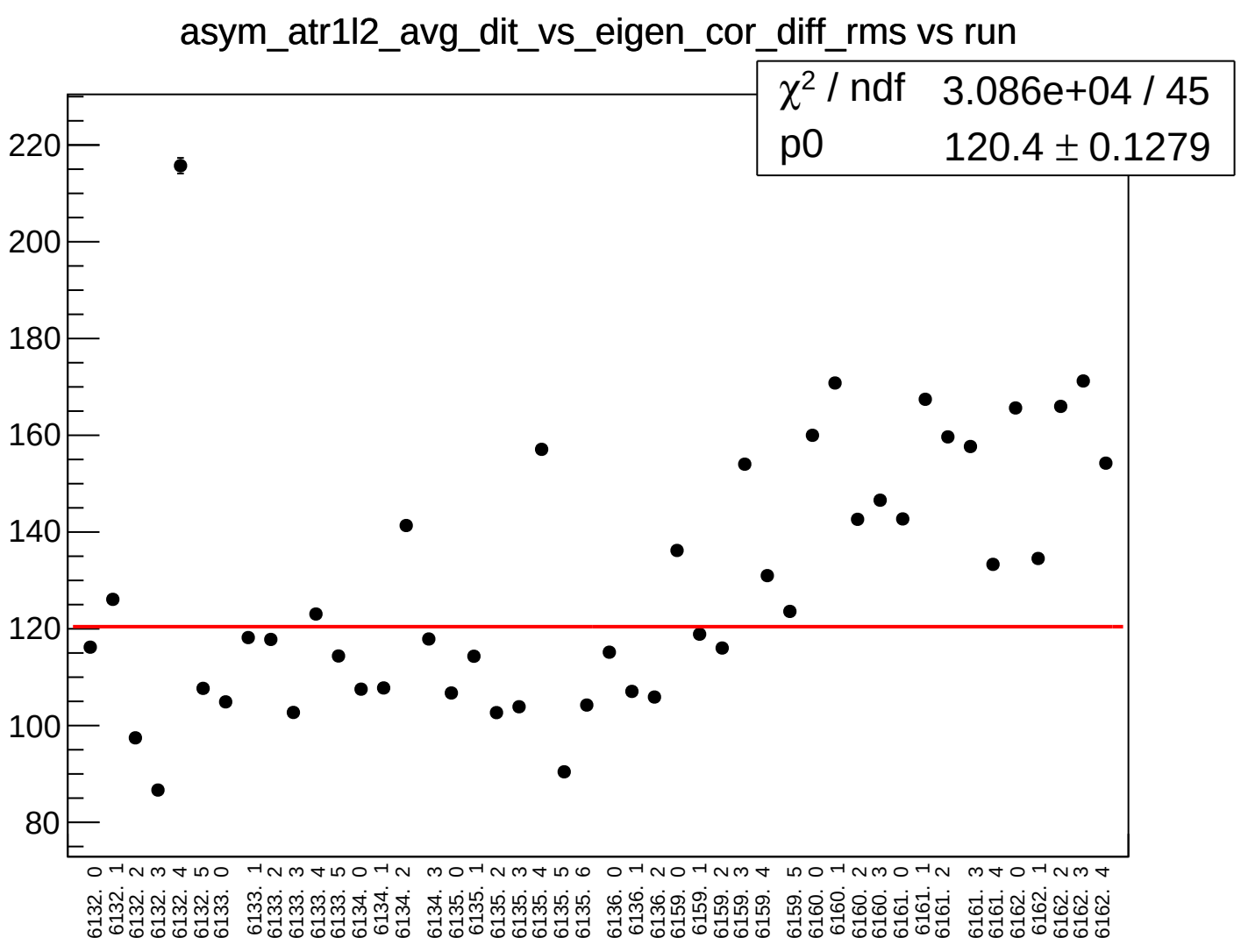

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 49.87 / 45
p0 1.209e−13 ± 3.64e−13
0.01
0.005
0
−0.005
−0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 17.83
Std Dev 18.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.1332
Std Dev 1.033
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

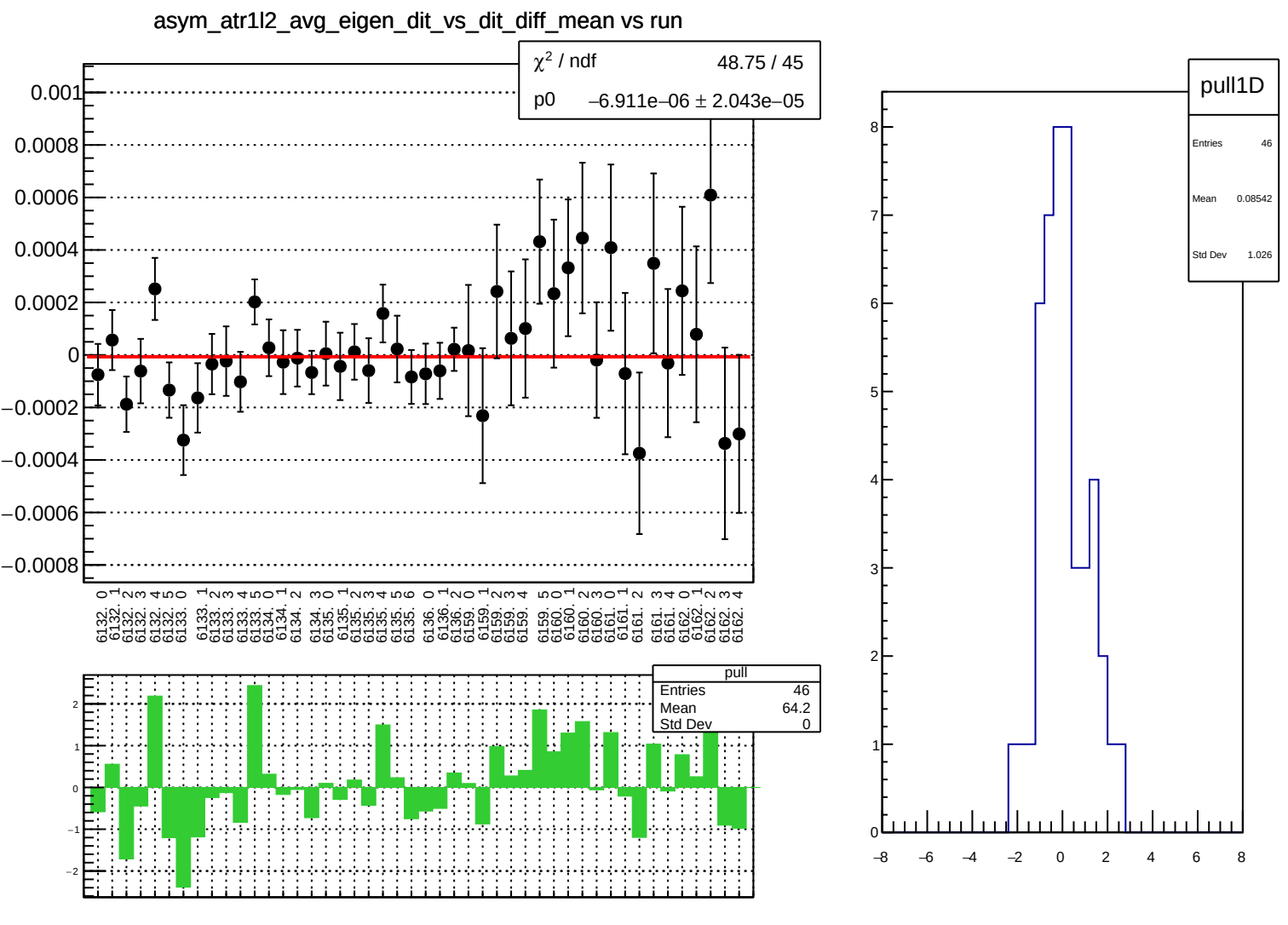

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.58e+05 / 45
p0 1.545e−10 ± 2.574e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

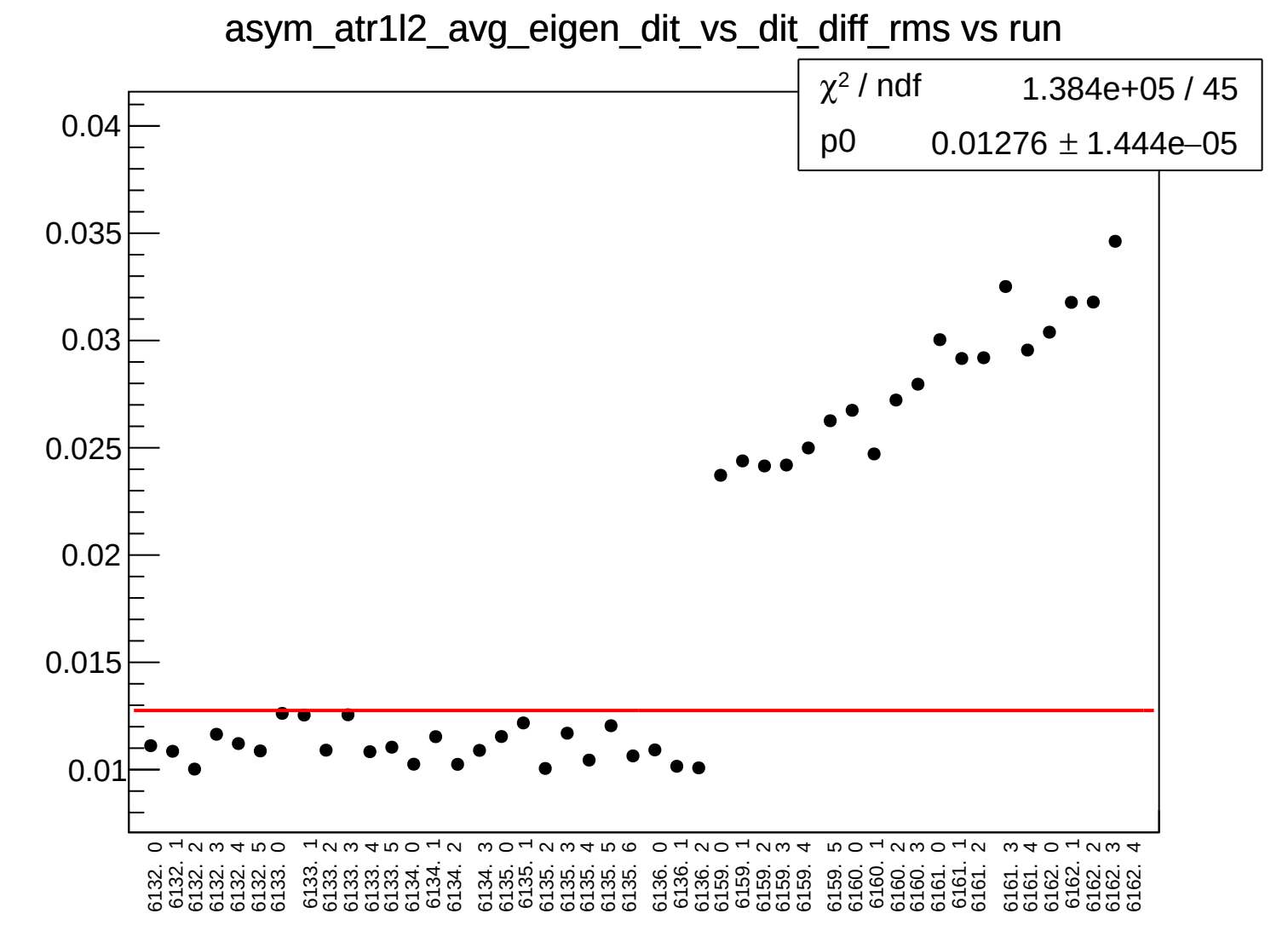

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 46.46 / 45
p0 −0.01286 ± 0.1808
pull
Entries 46
Mean −59.99
Std Dev 0
pull1D
Entries 46
Mean −0.006755
Std Dev 1.005

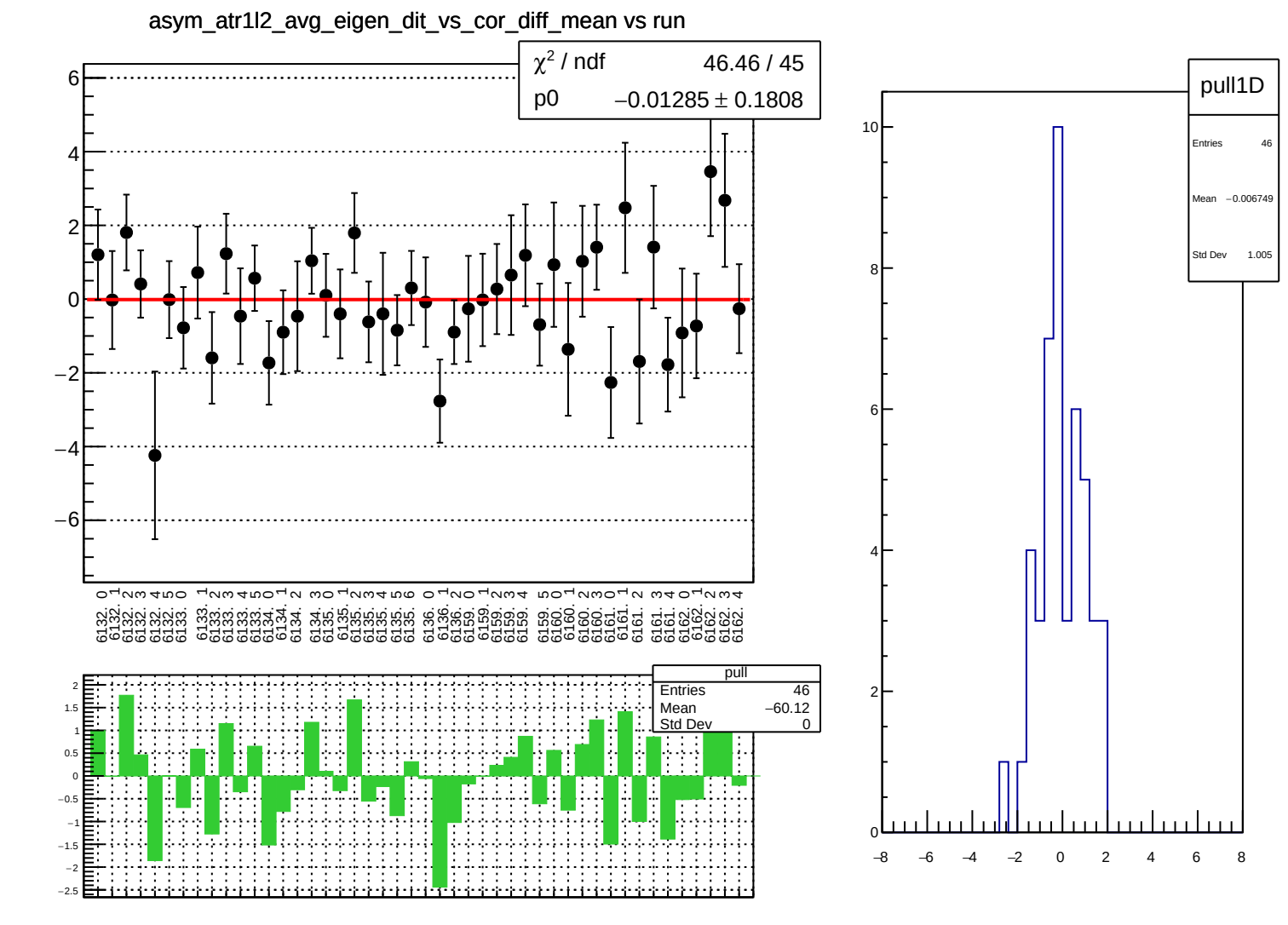

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.086e+04 / 45
p0 120.4 ± 0.1279
220
200
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

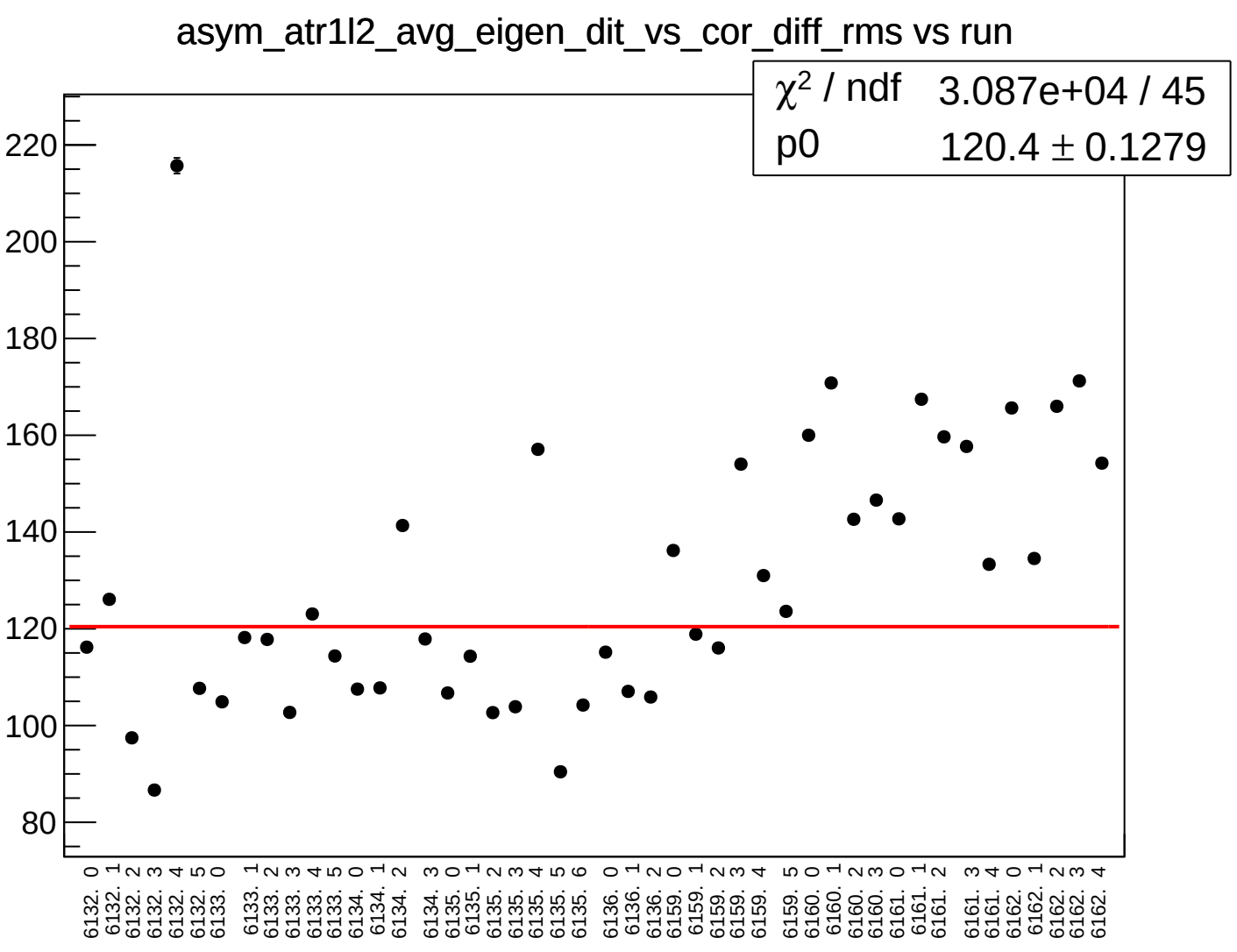

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.46 / 45
p0 −0.01286 ± 0.1808
pull
Entries 46
Mean −59.99
Std Dev 0
pull1D
Entries 46
Mean −0.006755
Std Dev 1.005


asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.086e+04 / 45
p0 120.4 ± 0.1279
220
200
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 48.75 / 45
p0 −6.911e−06 ± 2.043e−05
pull
Entries 46
Mean 64.2
Std Dev 0
pull1D
Entries 46
Mean 0.08542
Std Dev 1.026


asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.384e+05 / 45
p0 0.01276 ± 1.444e−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
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.46 / 45
p0 −0.01285 ± 0.1808
pull
Entries 46
Mean −60.12
Std Dev 0
pull1D
Entries 46
Mean −0.006749
Std Dev 1.005


asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.087e+04 / 45
p0 120.4 ± 0.1279
220
200
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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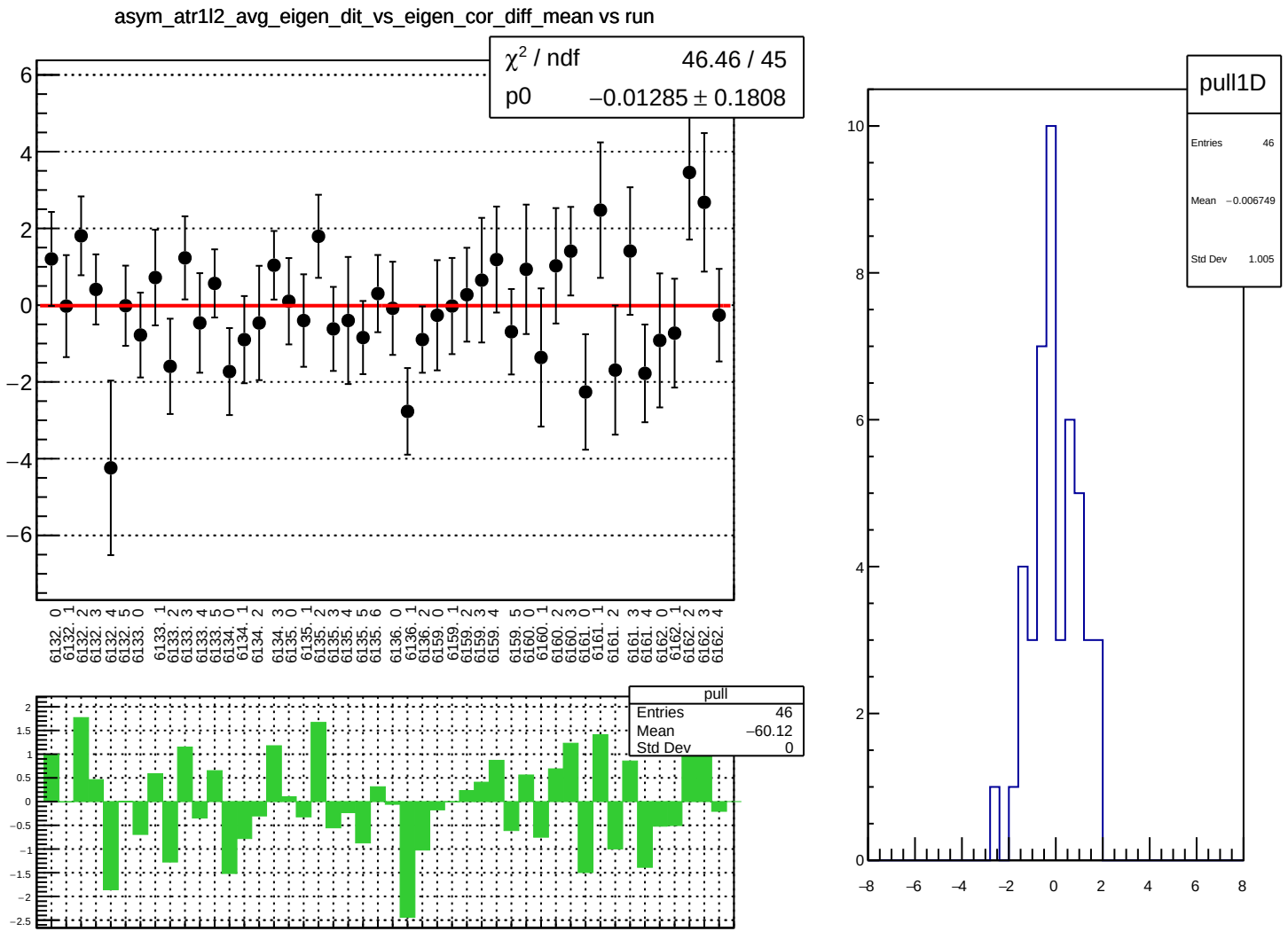
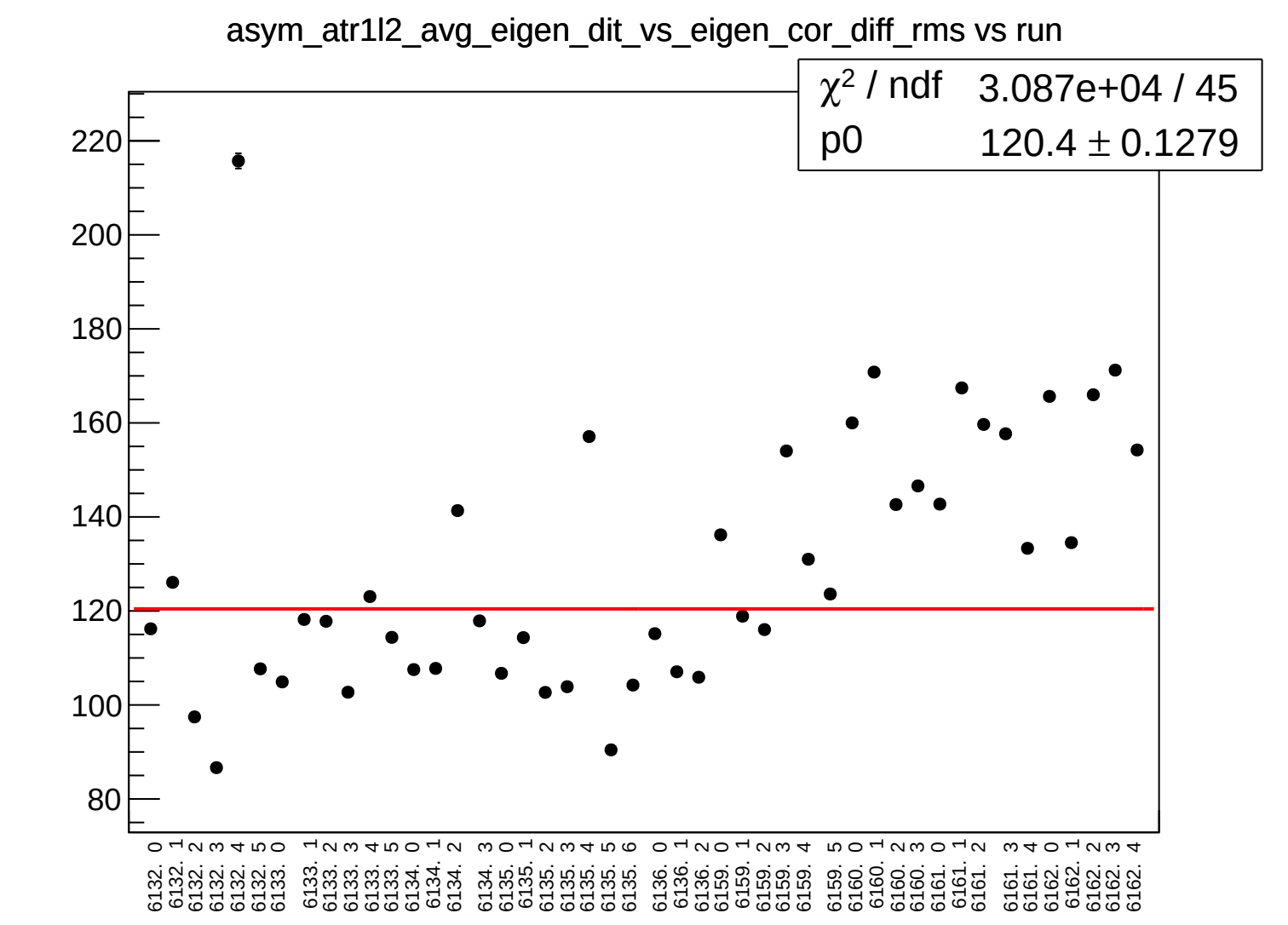
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.46 / 45
p0 −0.01285 ± 0.1808
pull
Entries 46
Mean −60.12
Std Dev 0
pull1D
Entries 46
Mean −0.006749
Std Dev 1.005


asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.087e+04 / 45
p0 120.4 ± 0.1279
220
200
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
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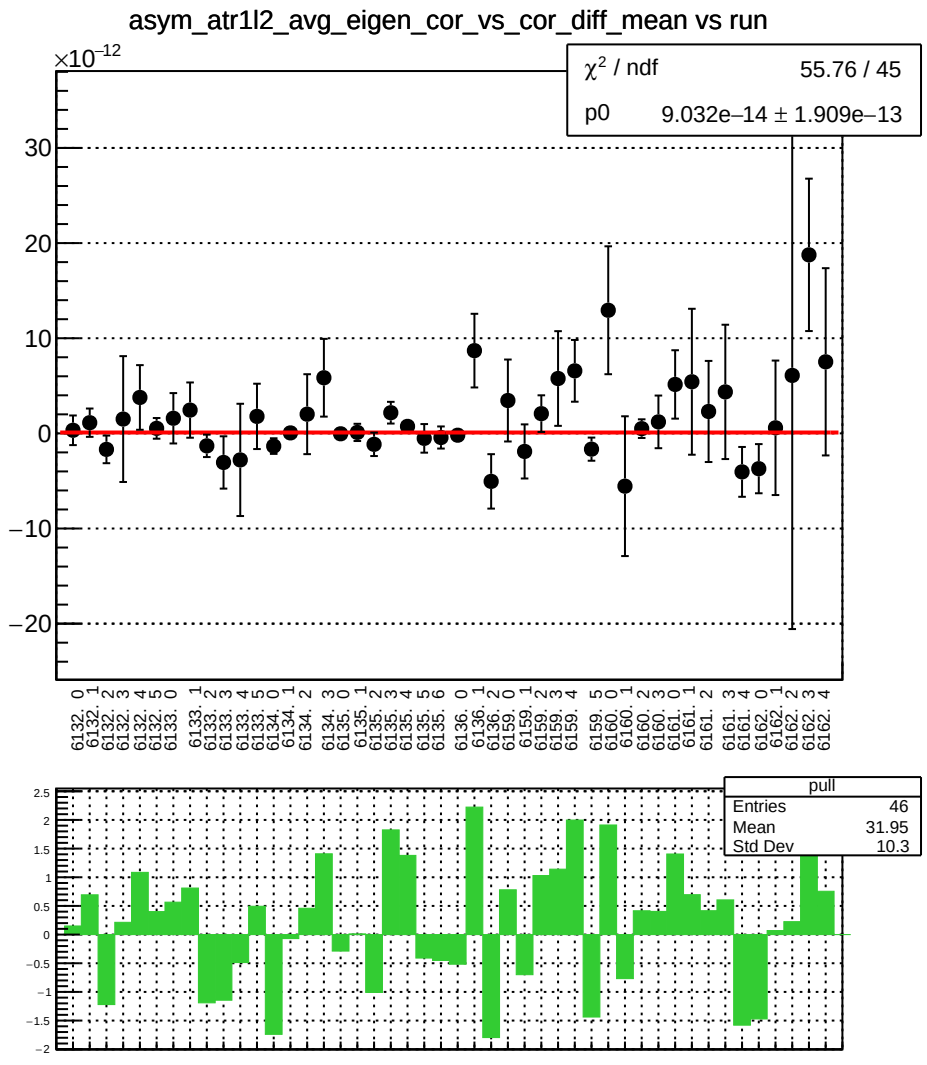
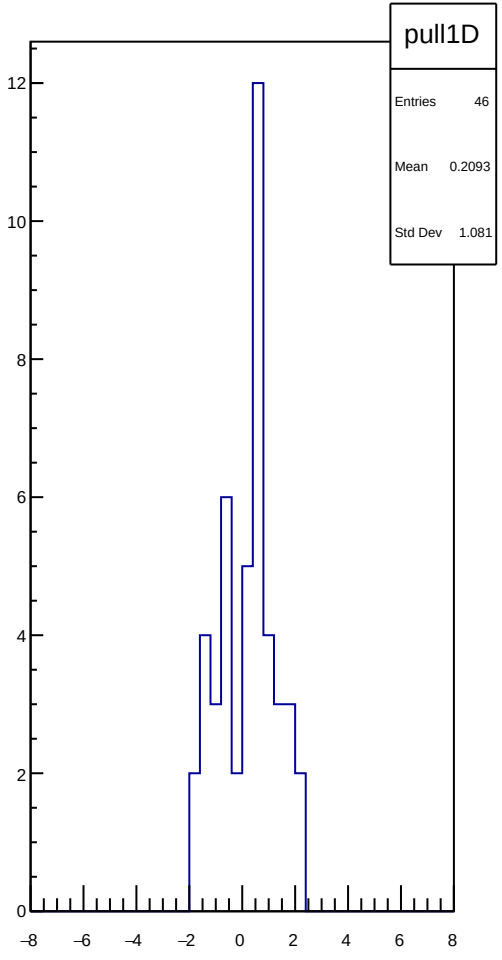
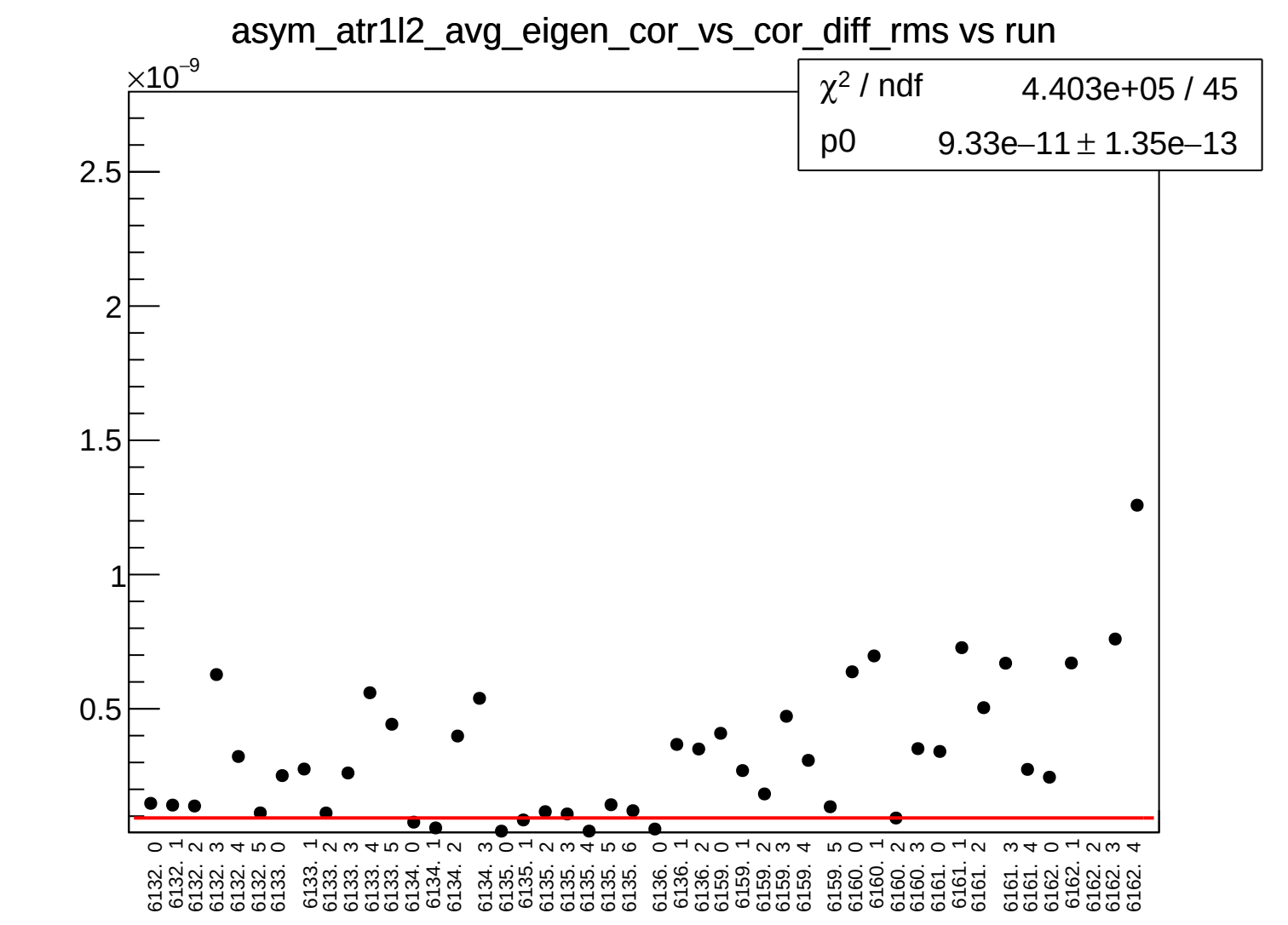
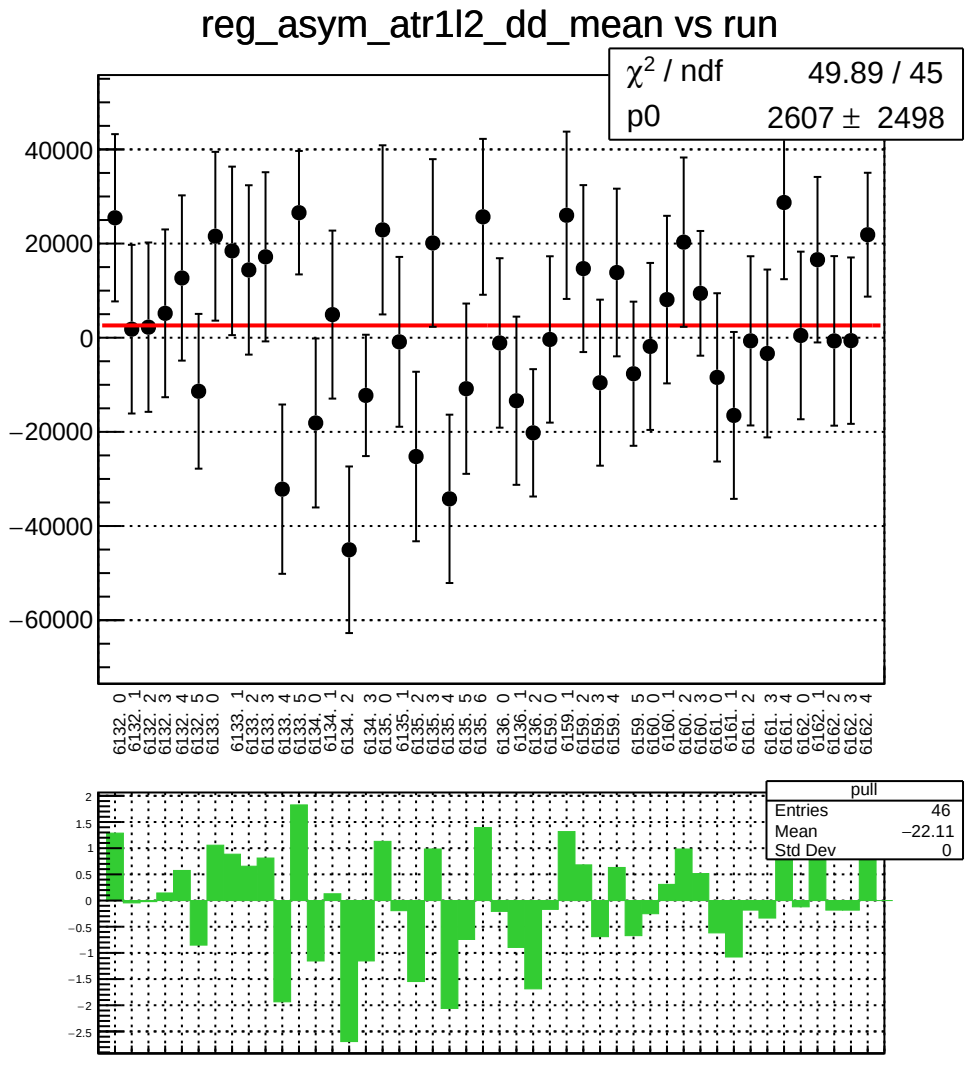
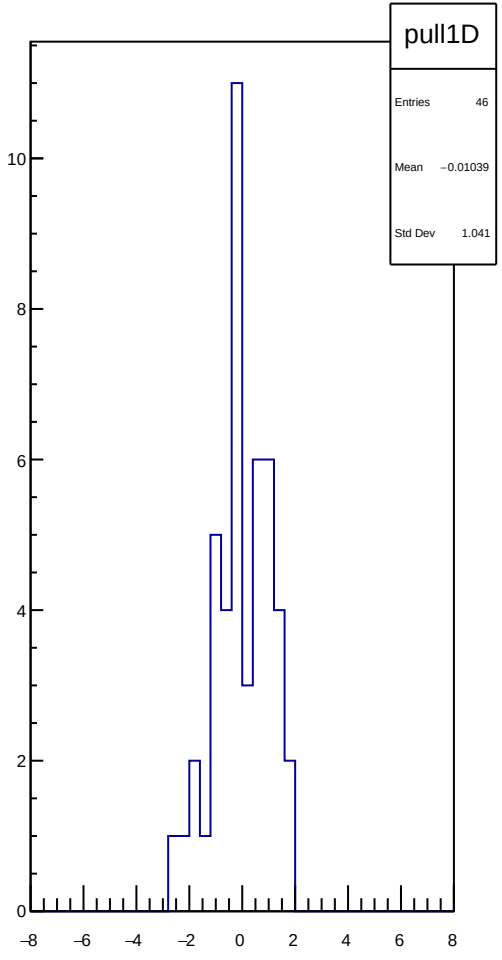
6162. 1
6162. 2
6162. 3
6162. 4

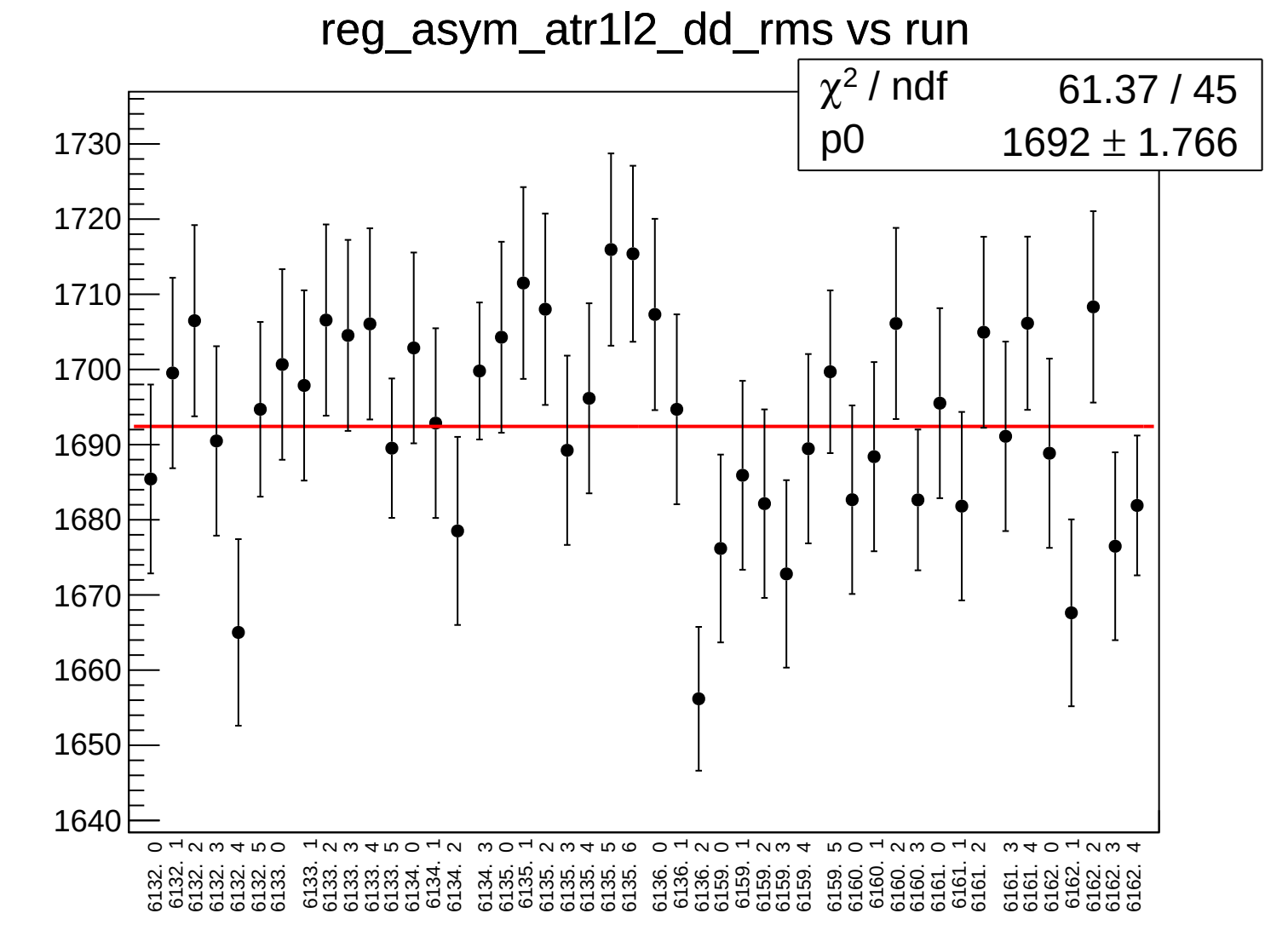

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 55.76 / 45
p0 9.032e−14 ± 1.909e−13
30
20
10
0
−10
−20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 31.95
Std Dev 10.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.2093
Std Dev 1.081
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.403e+05 / 45
p0 9.33e−11 ± 1.35e−13
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_atr1l2_dd_mean vs run
χ² / ndf 49.89 / 45
p0 2607 ± 2498
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −22.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.01039
Std Dev 1.041
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_dd_rms vs run
χ² / ndf 61.37 / 45
p0 1692 ± 1.766
1730
1720
1710
1700
1690
1680
1670
1660
1650
1640
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
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6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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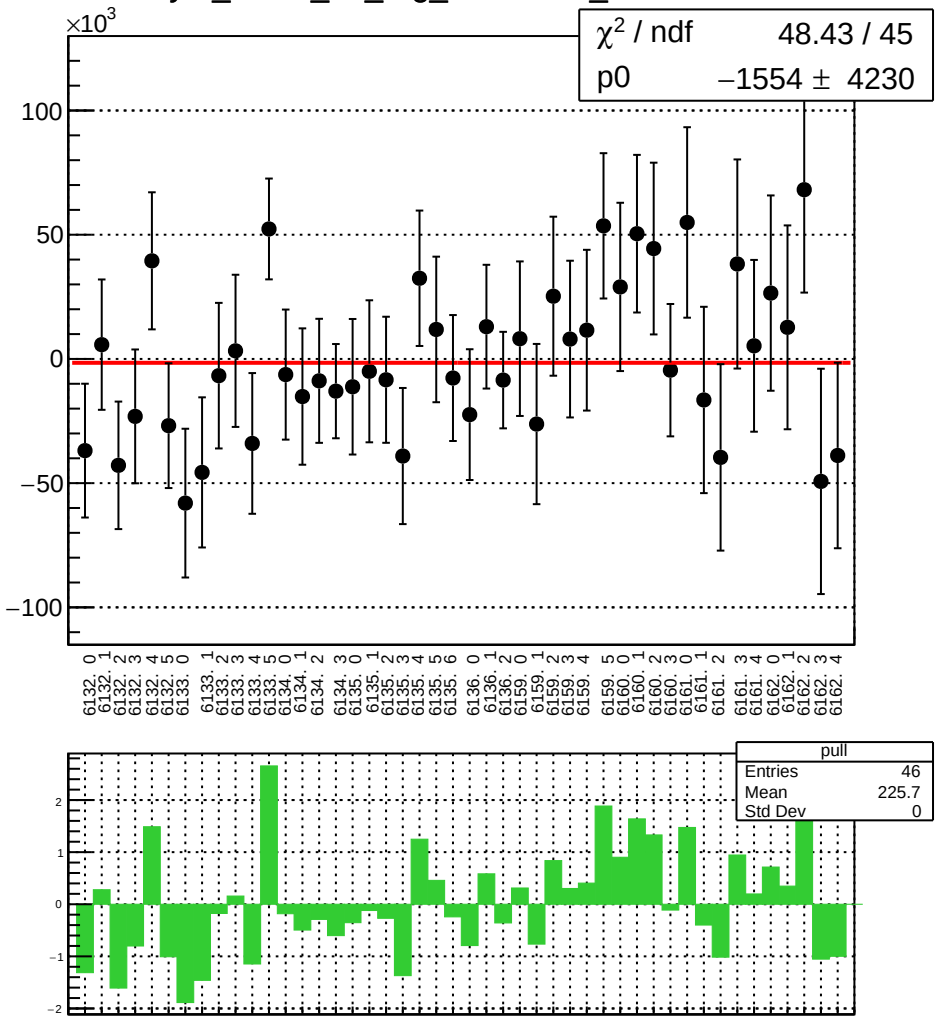
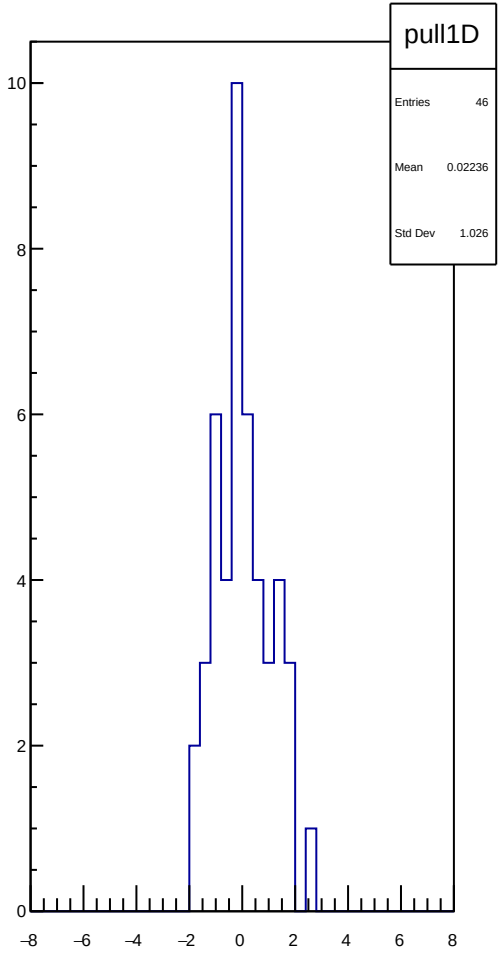
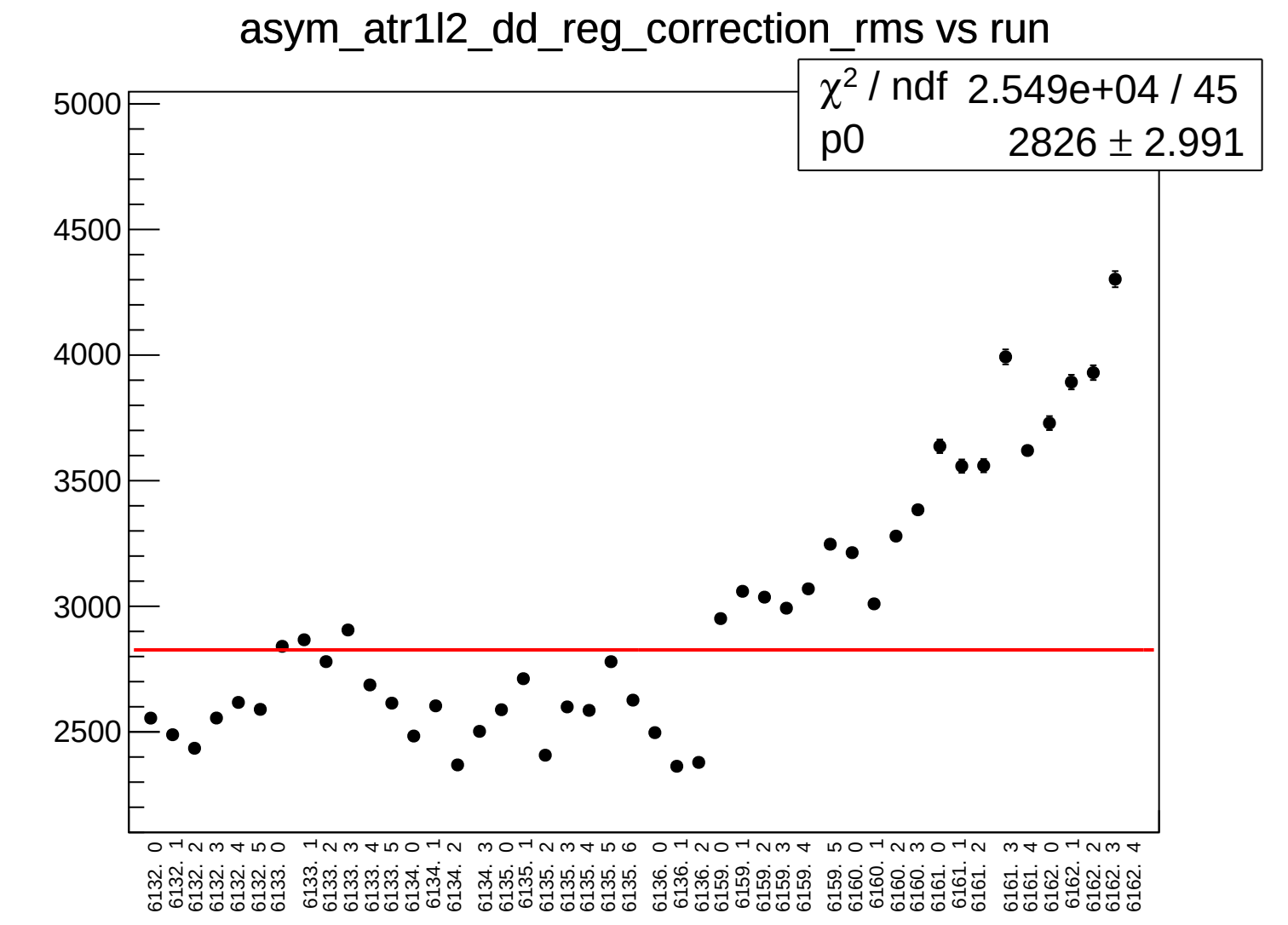
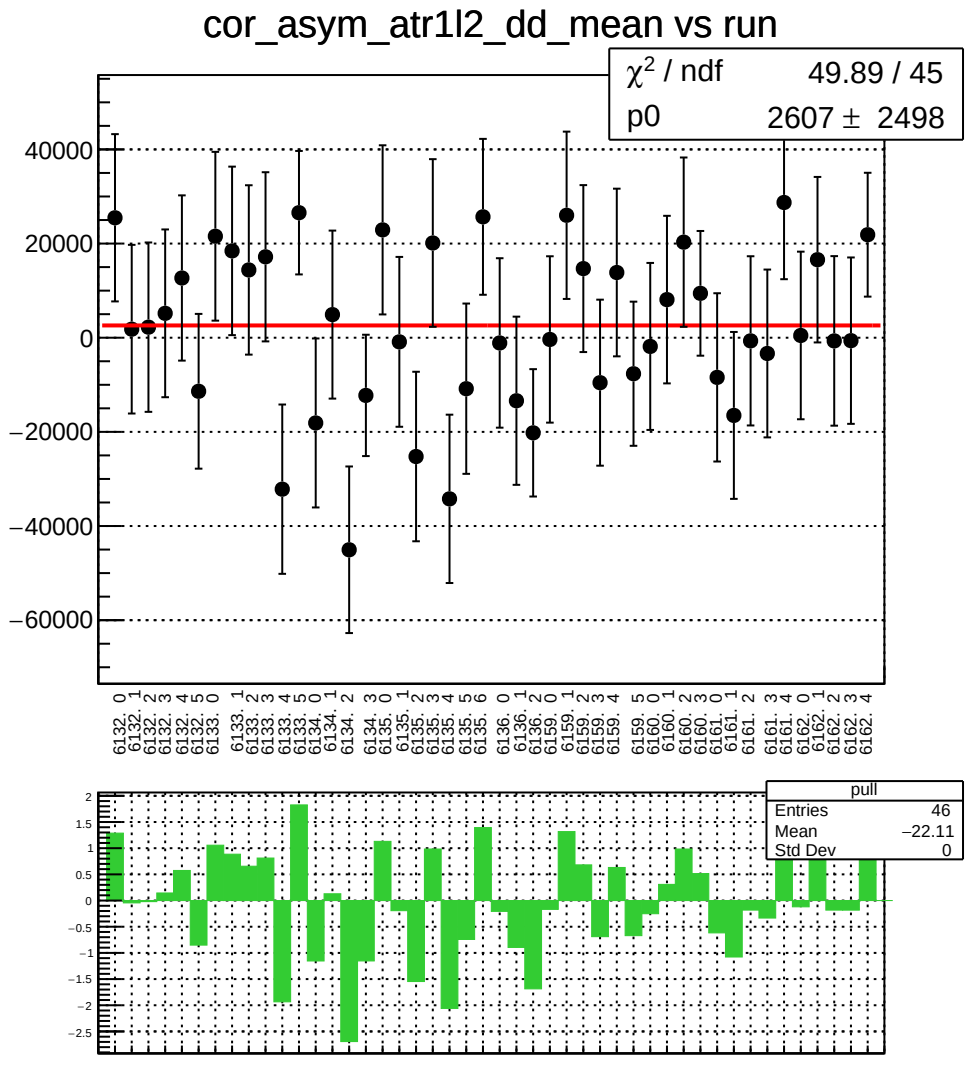
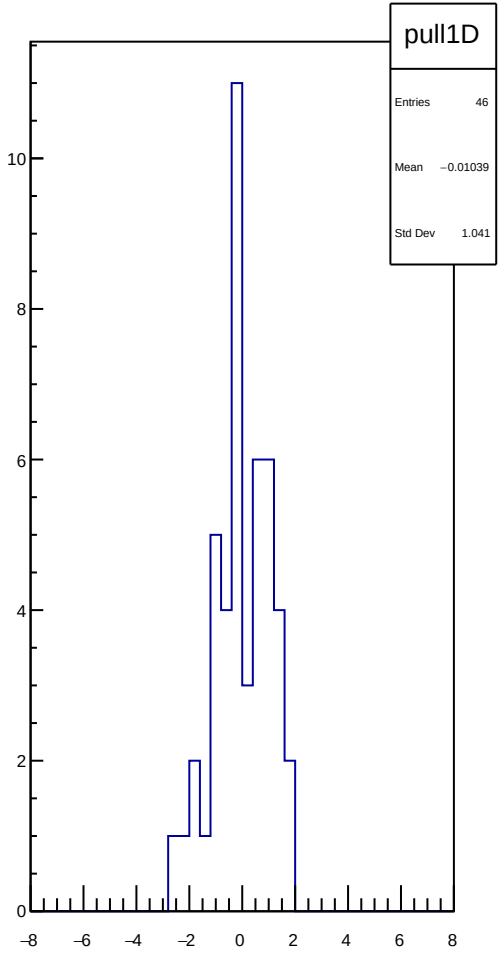
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

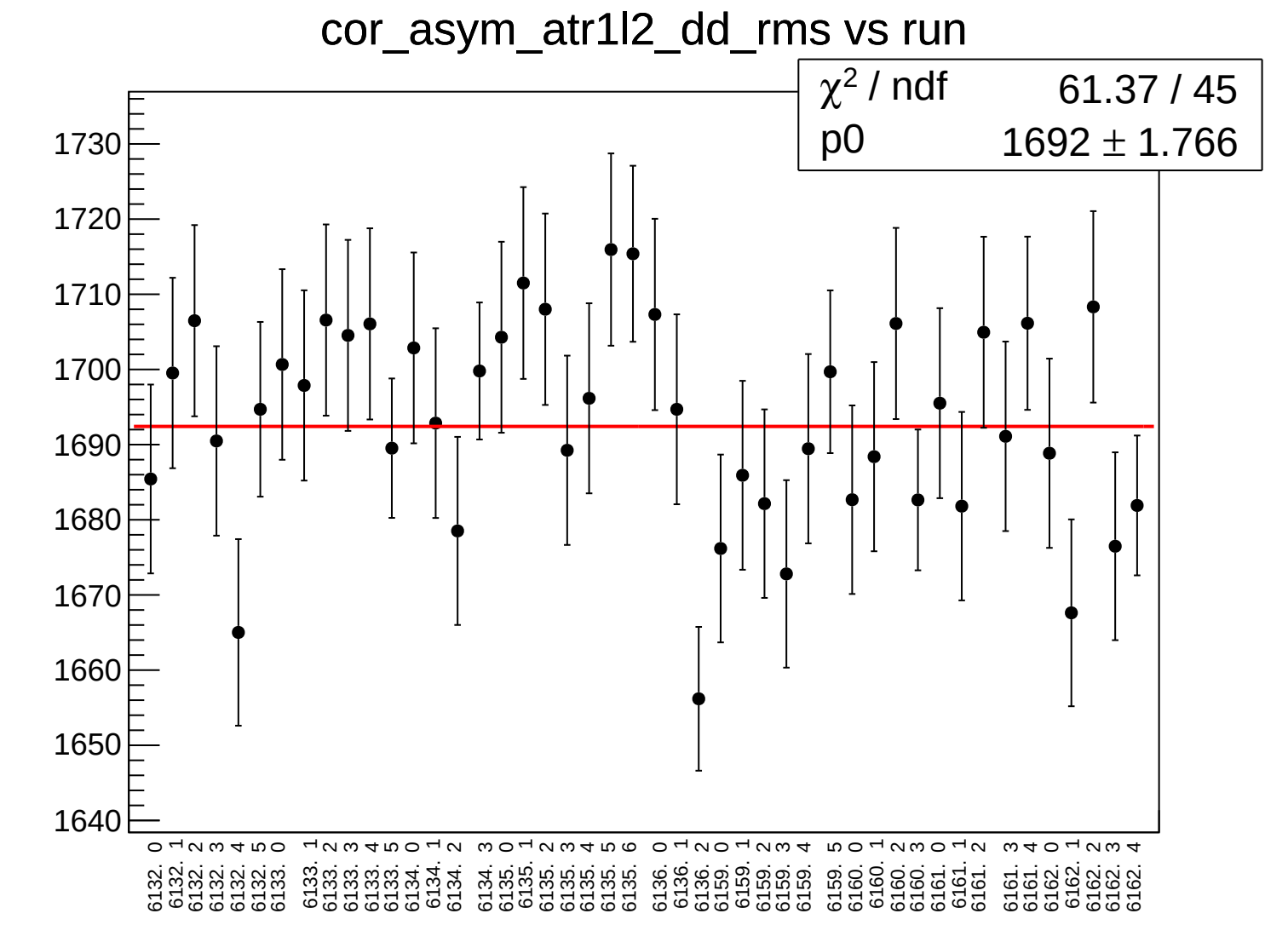

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 48.43 / 45
p0 −1554 ± 4230
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 225.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.02236
Std Dev 1.026
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 2.549e+04 / 45
p0 2826 ± 2.991
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_atr1l2_dd_mean vs run
χ² / ndf 49.89 / 45
p0 2607 ± 2498
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −22.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.01039
Std Dev 1.041
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr1l2_dd_rms vs run
χ² / ndf 61.37 / 45
p0 1692 ± 1.766
1730
1720
1710
1700
1690
1680
1670
1660
1650
1640
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
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6135. 2
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6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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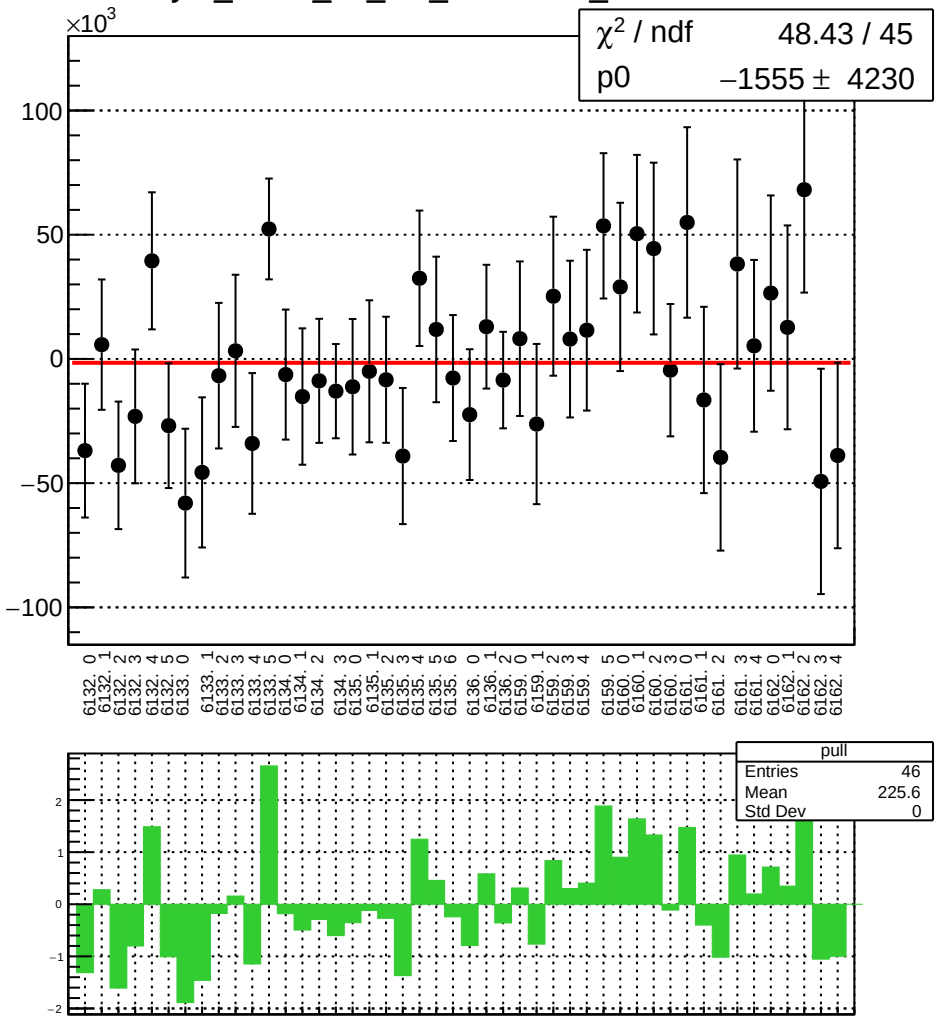
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 48.43 / 45
p0 −1555 ± 4230
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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6135. 2
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6135. 5
6135. 6
6136. 0
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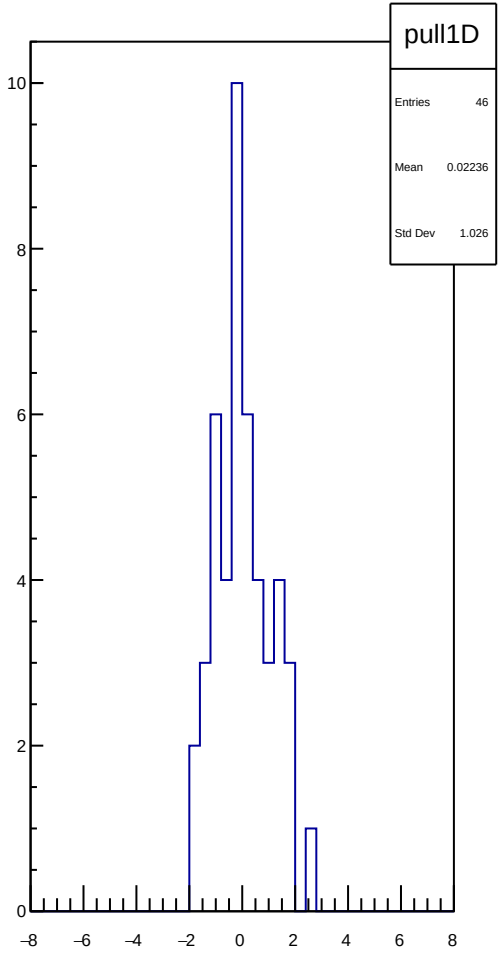
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 225.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.02236
Std Dev 1.026
10
8
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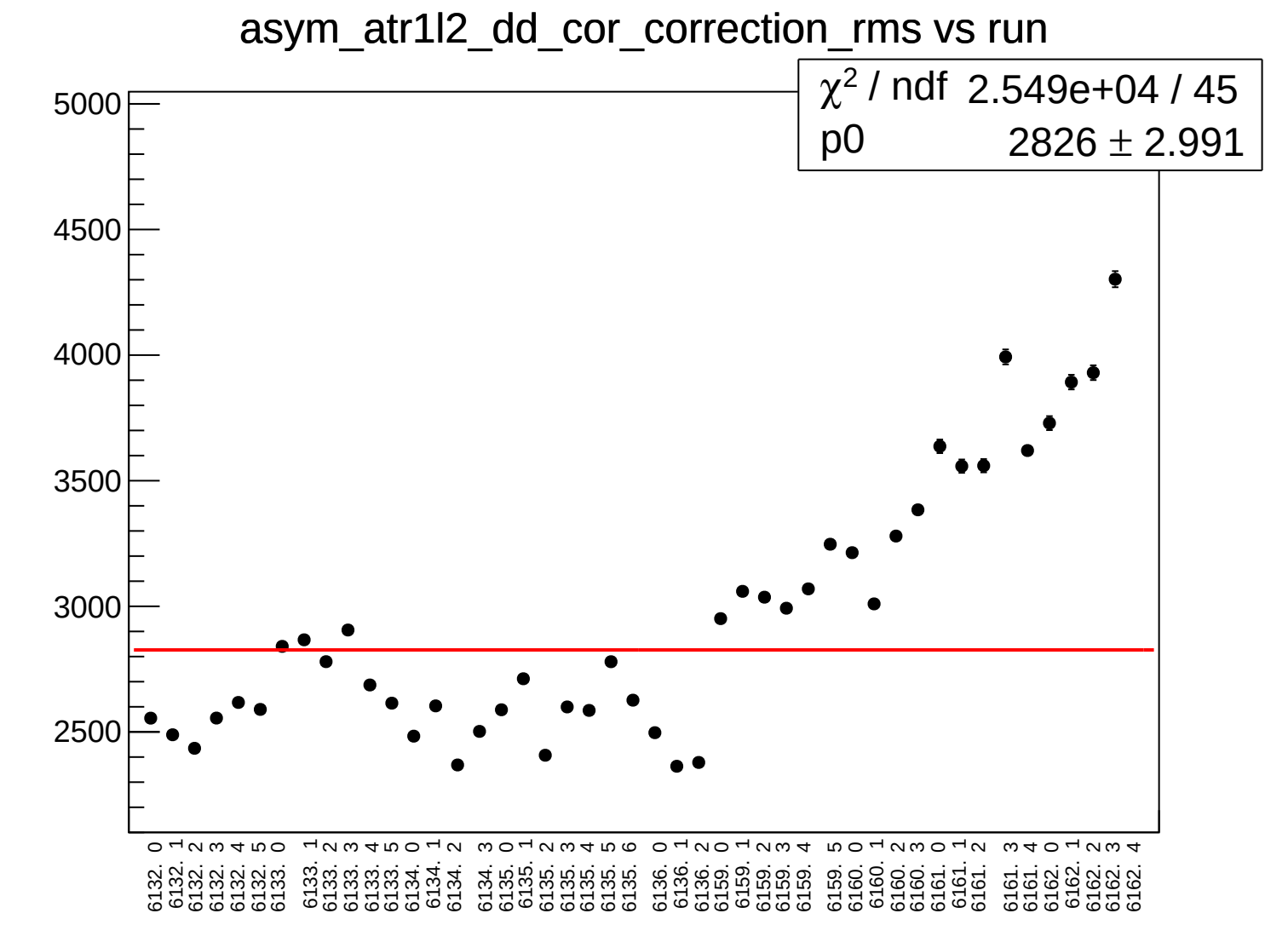
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 2.549e+04 / 45
p0 2826 ± 2.991
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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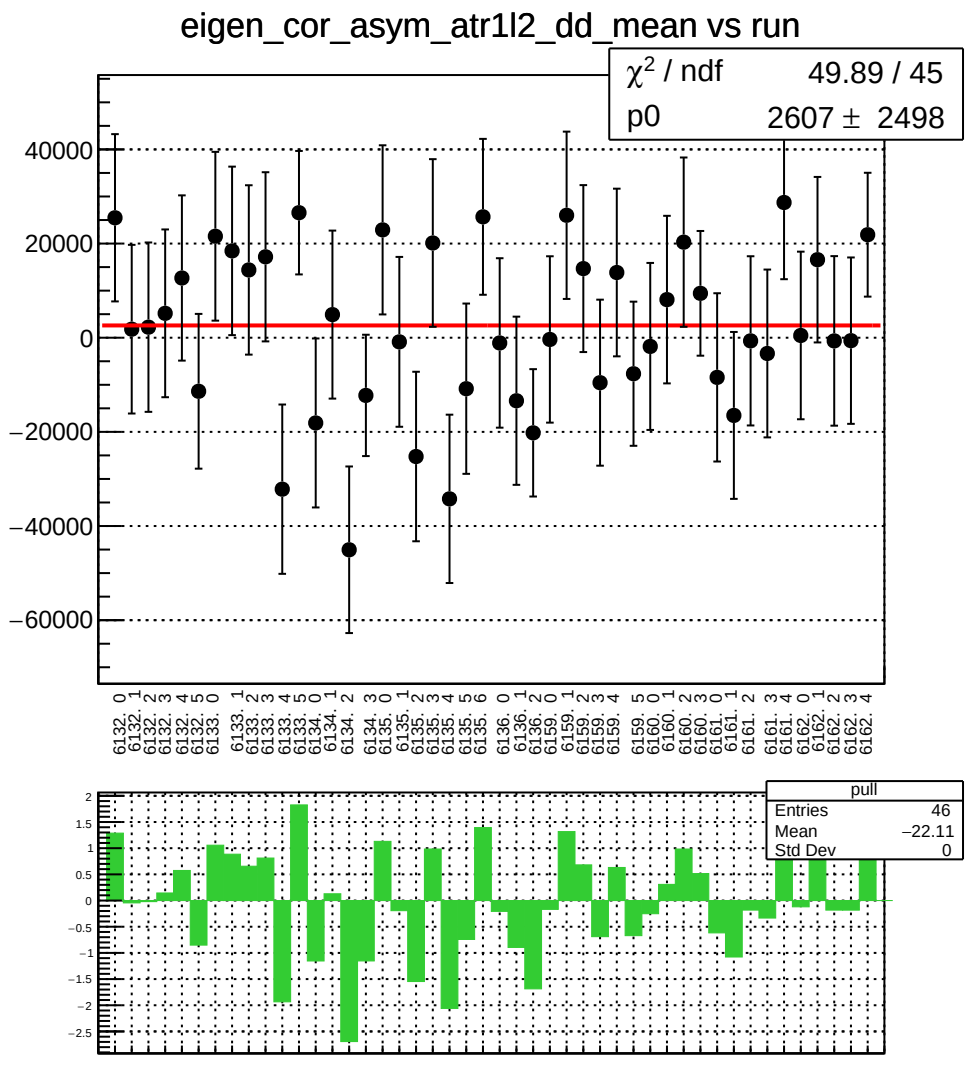
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 49.89 / 45
p0 2607 ± 2498
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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6159. 2
6159. 3
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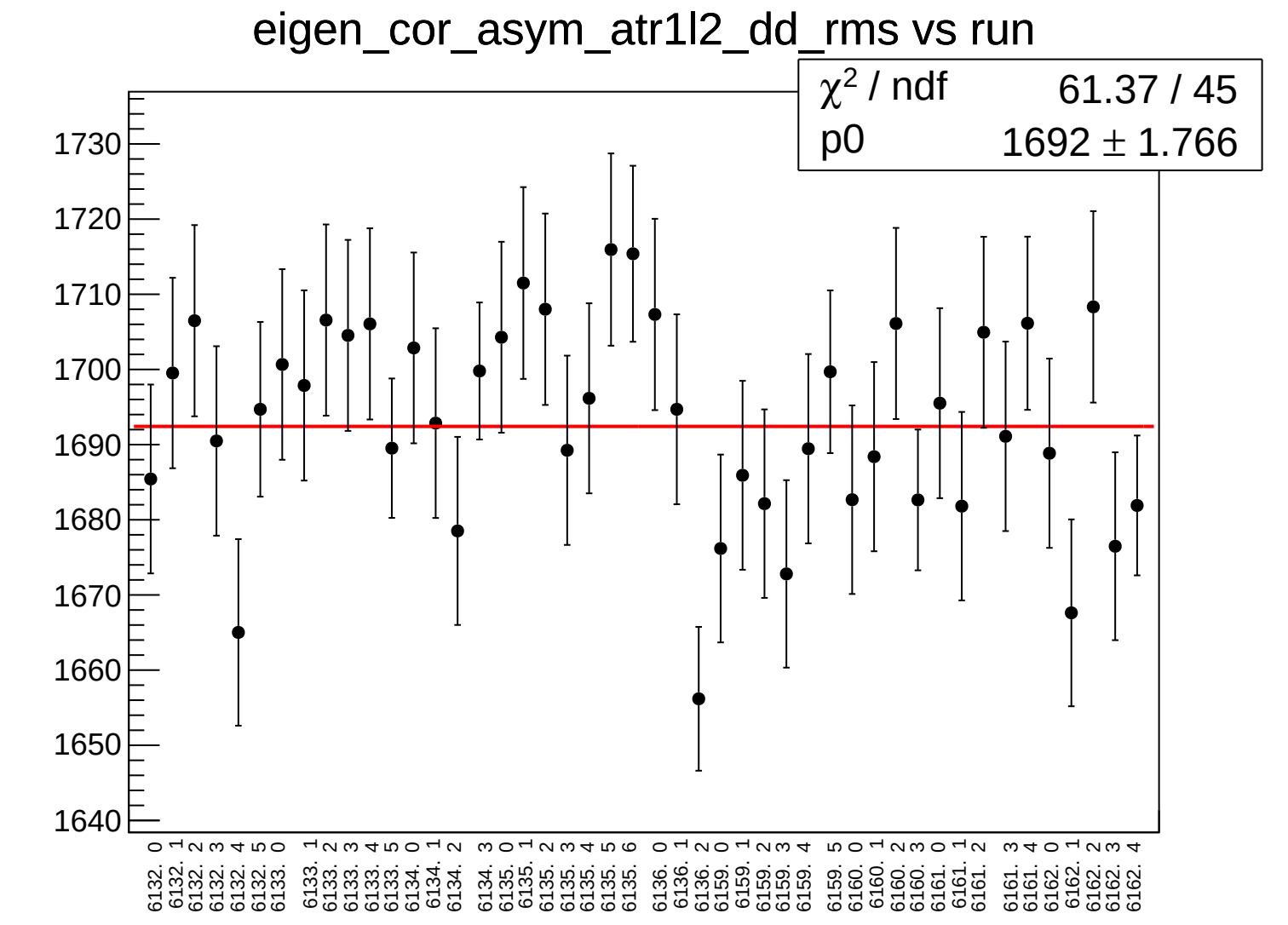
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −22.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.01039
Std Dev 1.041
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 61.37 / 45
p0 1692 ± 1.766
1730
1720
1710
1700
1690
1680
1670
1660
1650
1640
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6134. 0
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6134. 2
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6135. 2
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6135. 6
6136. 0
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6136. 2
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6159. 1
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6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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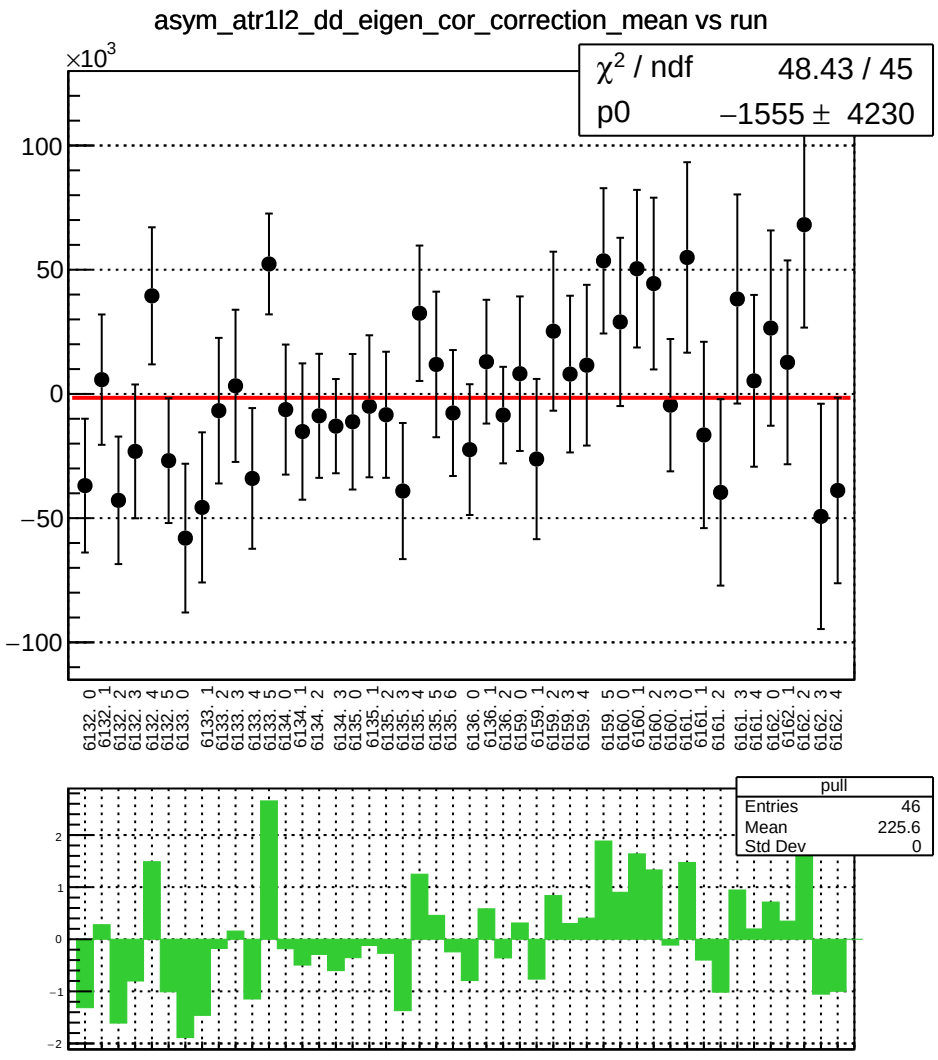
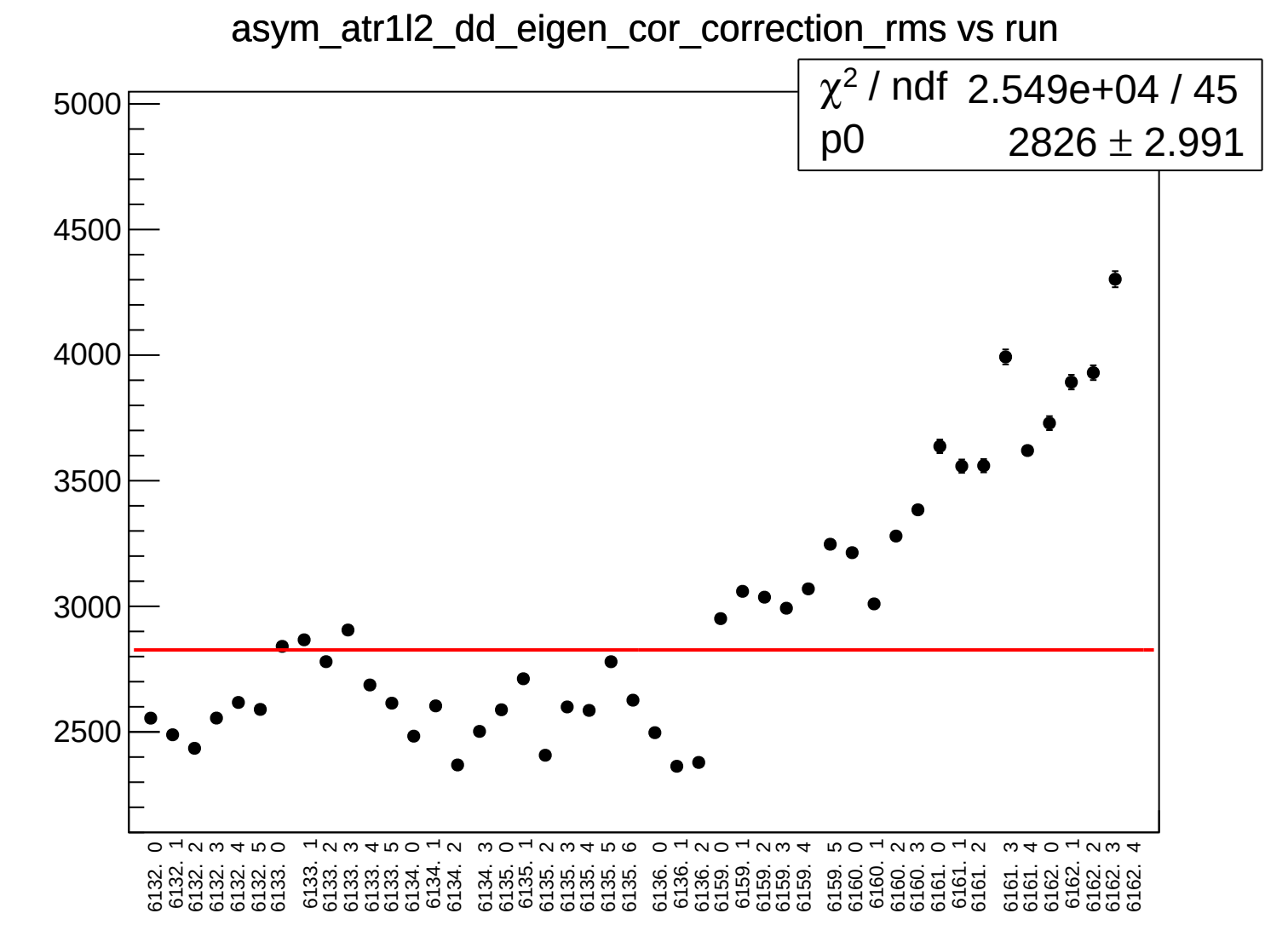
6162. 4


asym_atr1l2_dd_eigen_cor_correction_mean vs run
χ² / ndf 48.43 / 45
p0 −1555 ± 4230
×10³
100
50
0
−50
−100
pull
Entries 46
Mean 225.6
Std Dev 0
pull1D
Entries 46
Mean 0.02236
Std Dev 1.026


asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.549e+04 / 45
p0 2826 ± 2.991
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
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6136. 0
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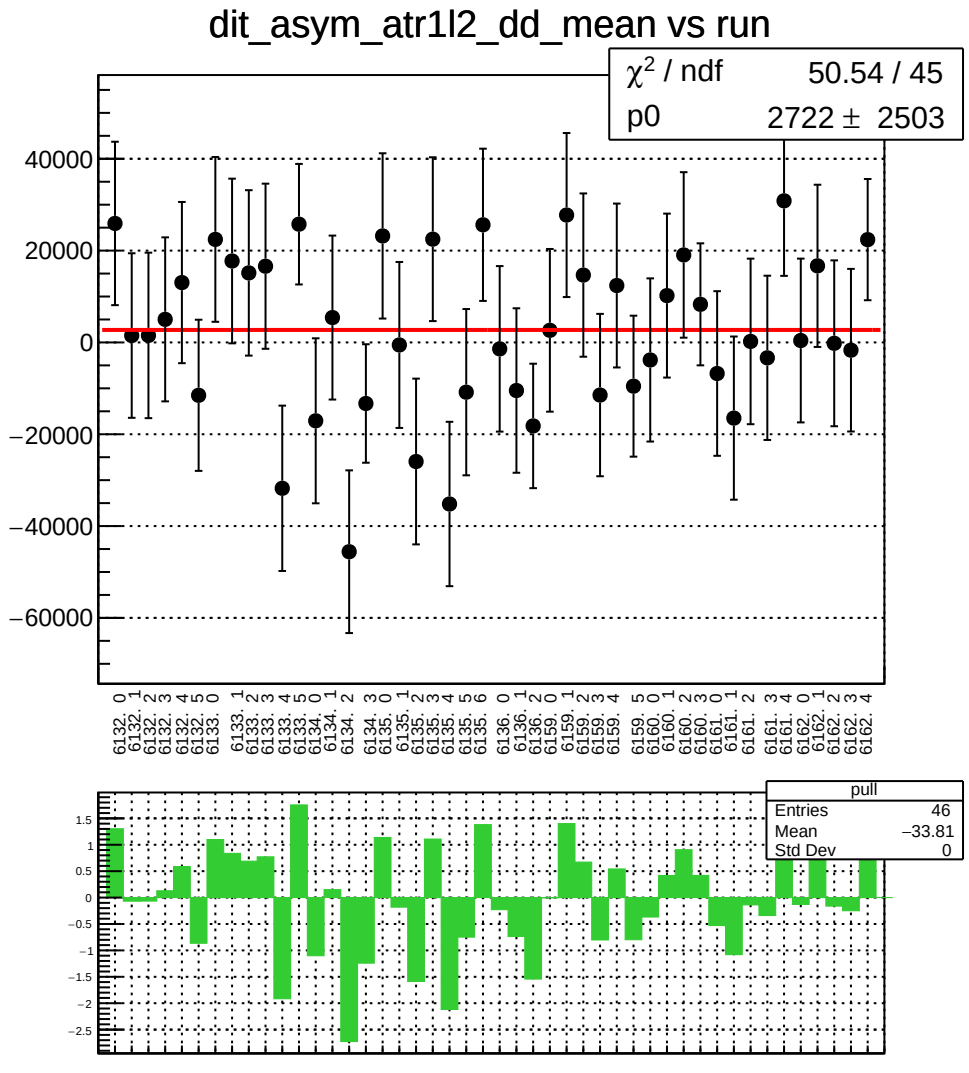
dit_asym_atr1l2_dd_mean vs run
χ² / ndf 50.54 / 45
p0 2722 ± 2503
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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6133. 4
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6134. 0
6134. 1
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6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −33.81
Std Dev 0
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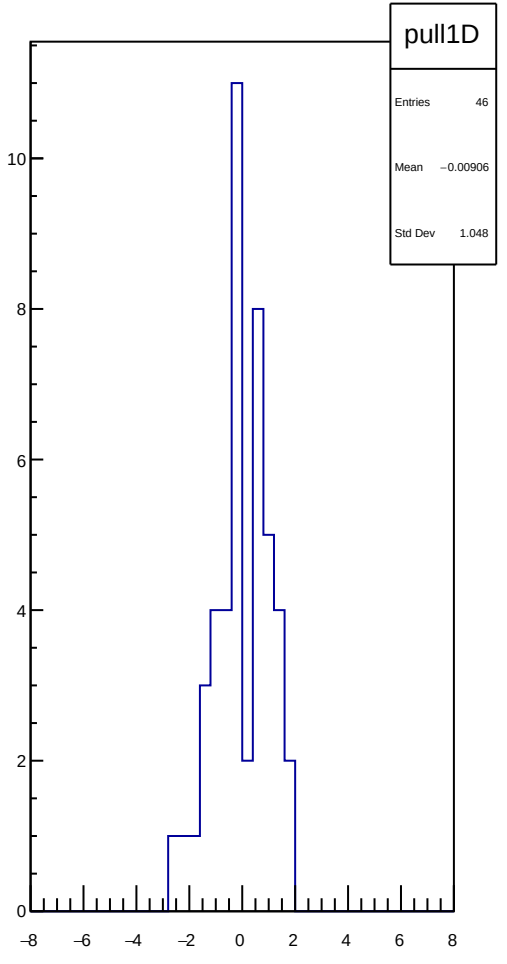
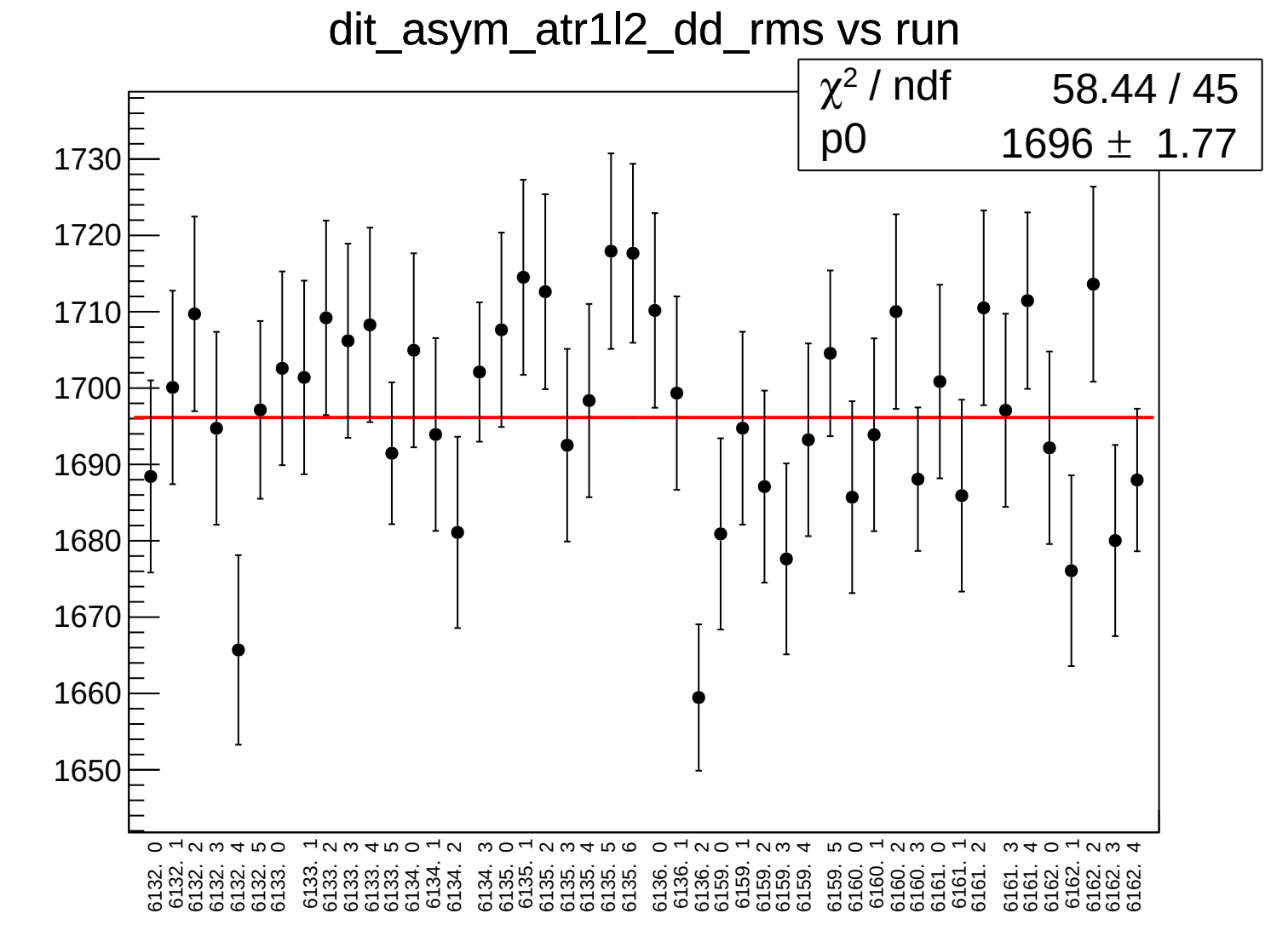
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.00906
Std Dev 1.048
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atr1l2_dd_rms vs run
χ² / ndf 58.44 / 45
p0 1696 ± 1.77
1730
1720
1710
1700
1690
1680
1670
1660
1650
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
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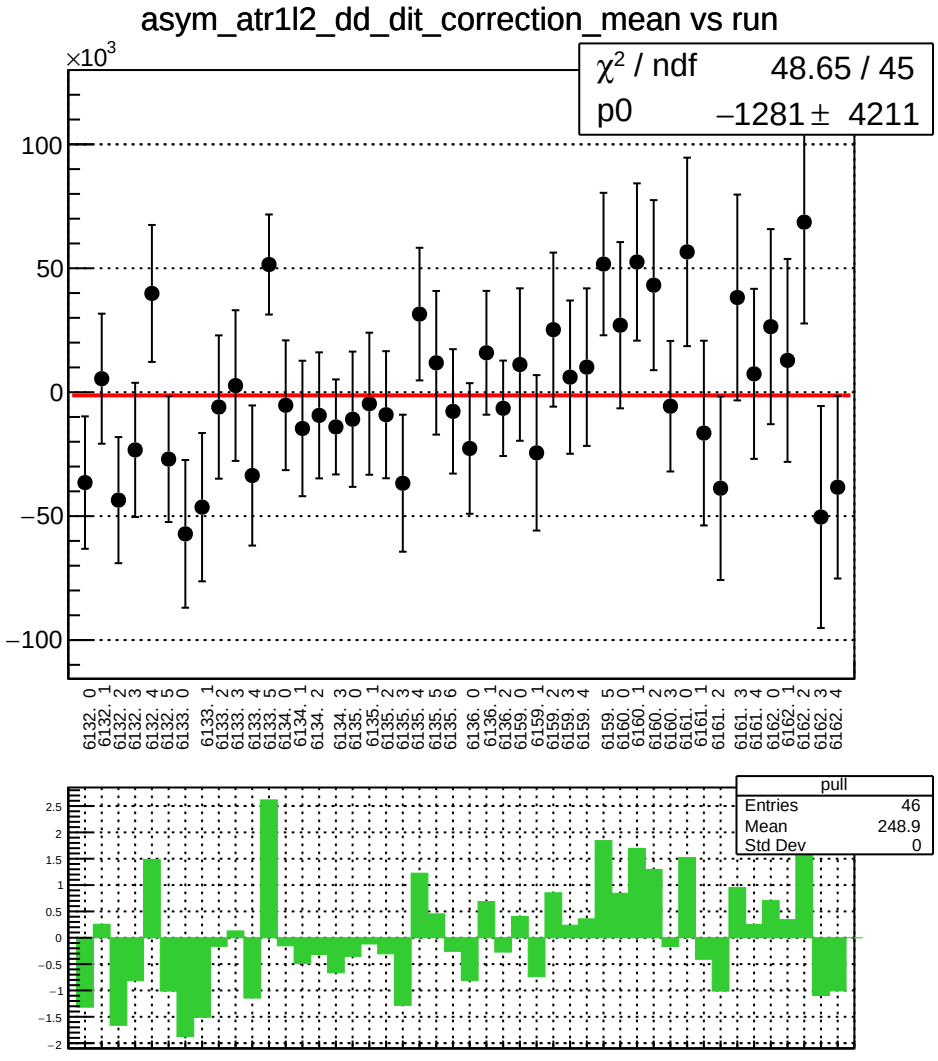
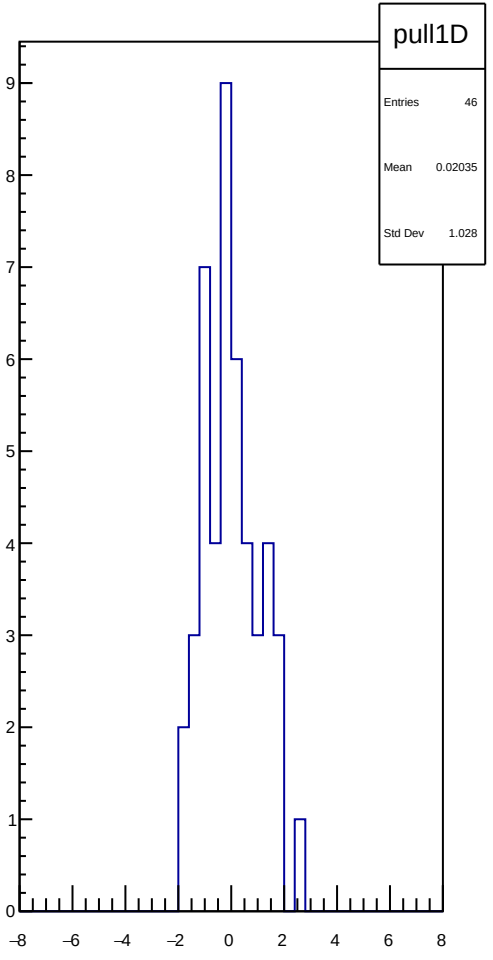
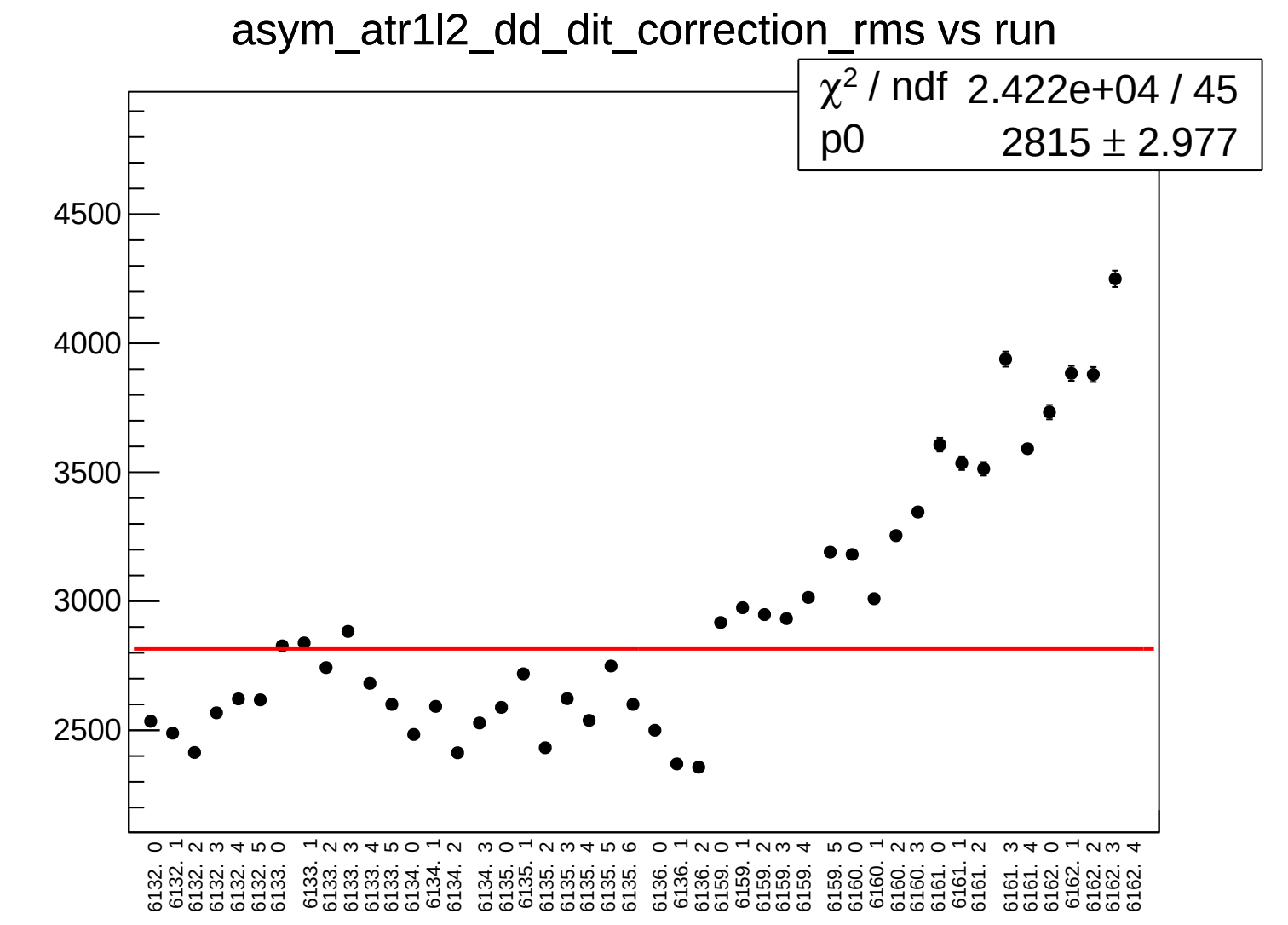
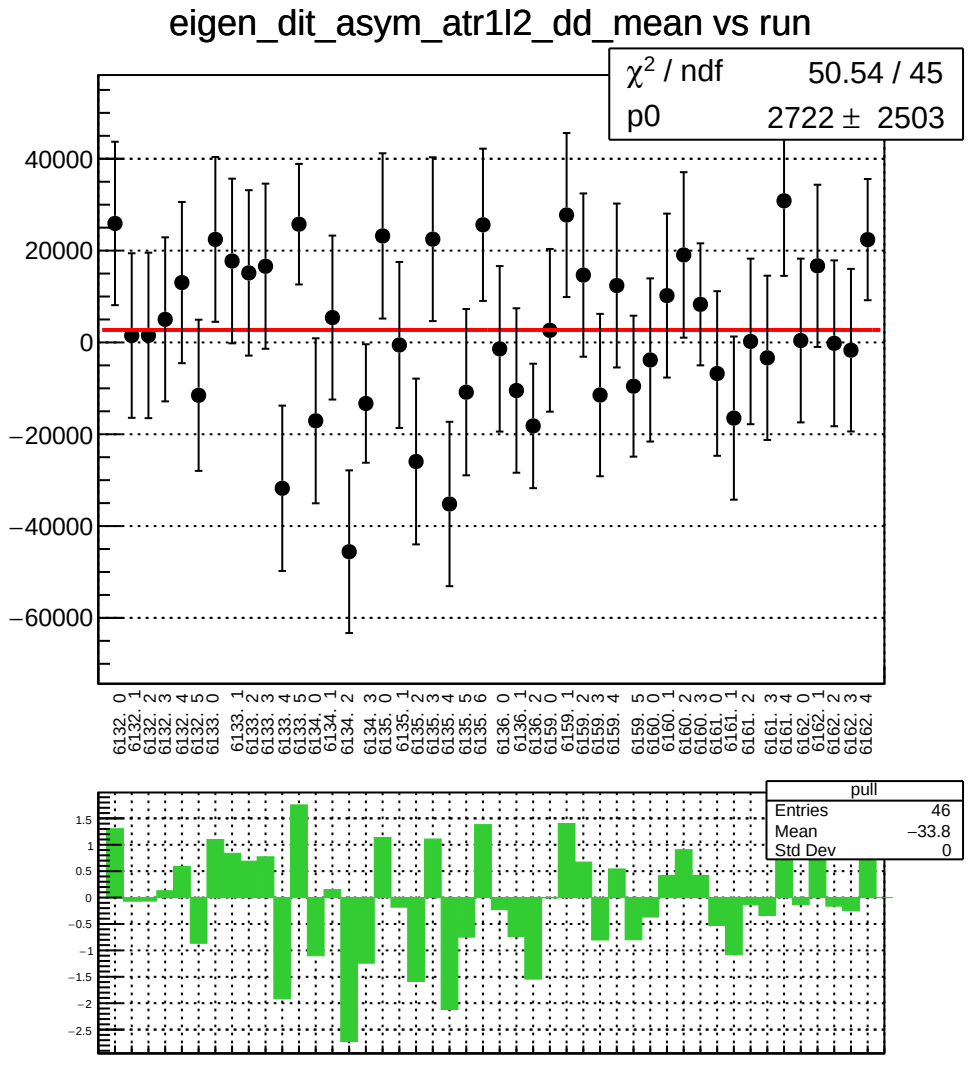
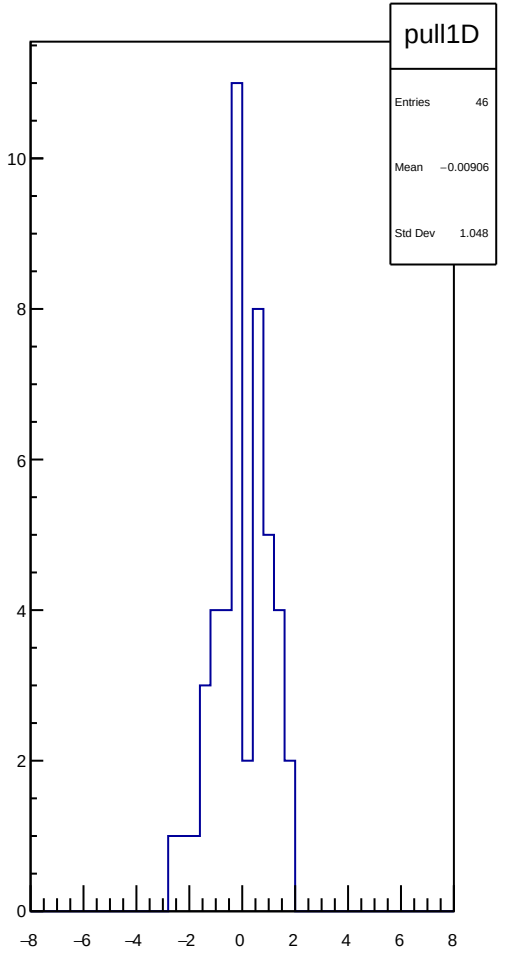
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

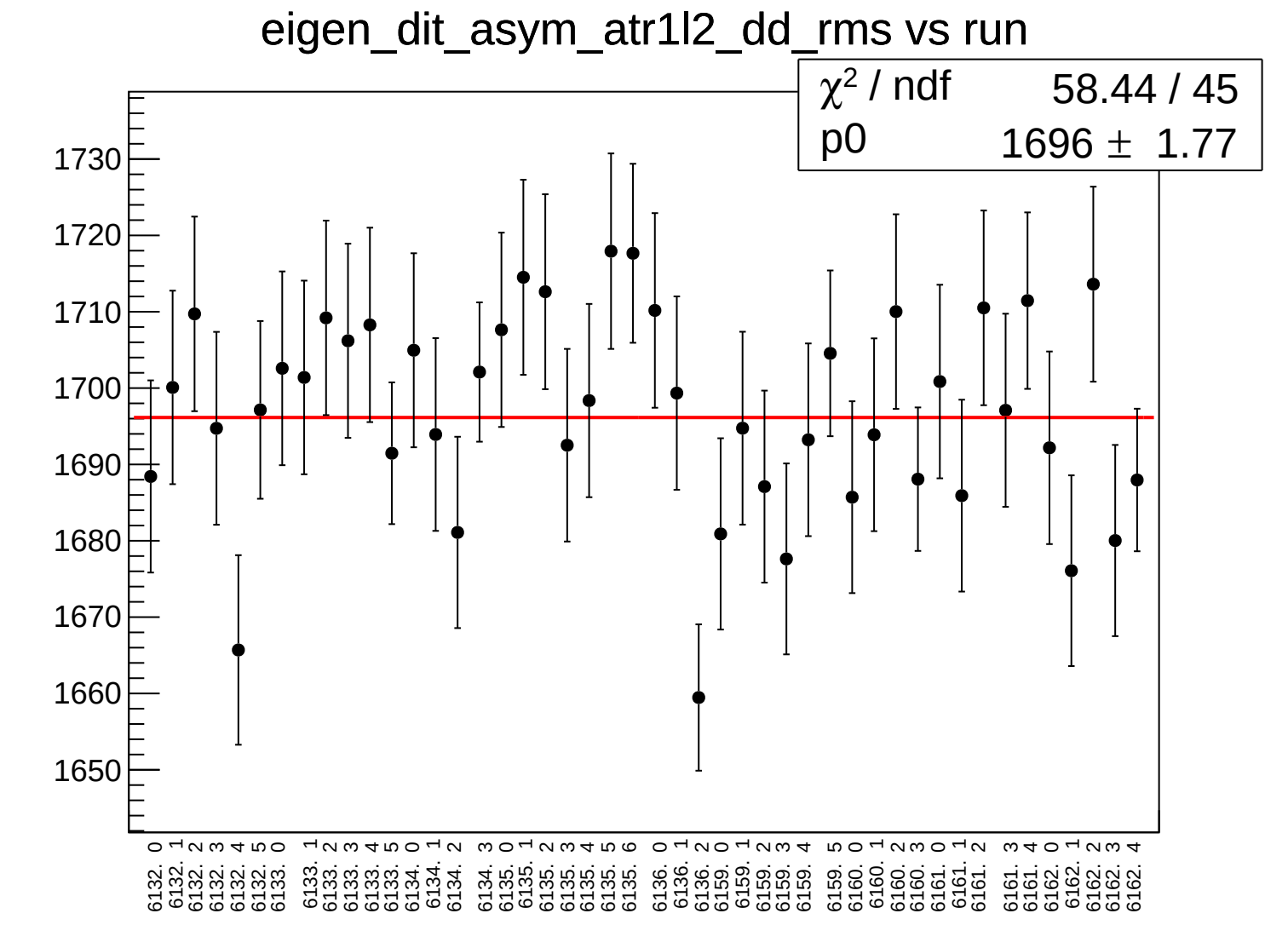

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 48.65 / 45
p0 −1281 ± 4211
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 248.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.02035
Std Dev 1.028
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 2.422e+04 / 45
p0 2815 ± 2.977
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 50.54 / 45
p0 2722 ± 2503
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −33.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.00906
Std Dev 1.048
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 58.44 / 45
p0 1696 ± 1.77
1730
1720
1710
1700
1690
1680
1670
1660
1650
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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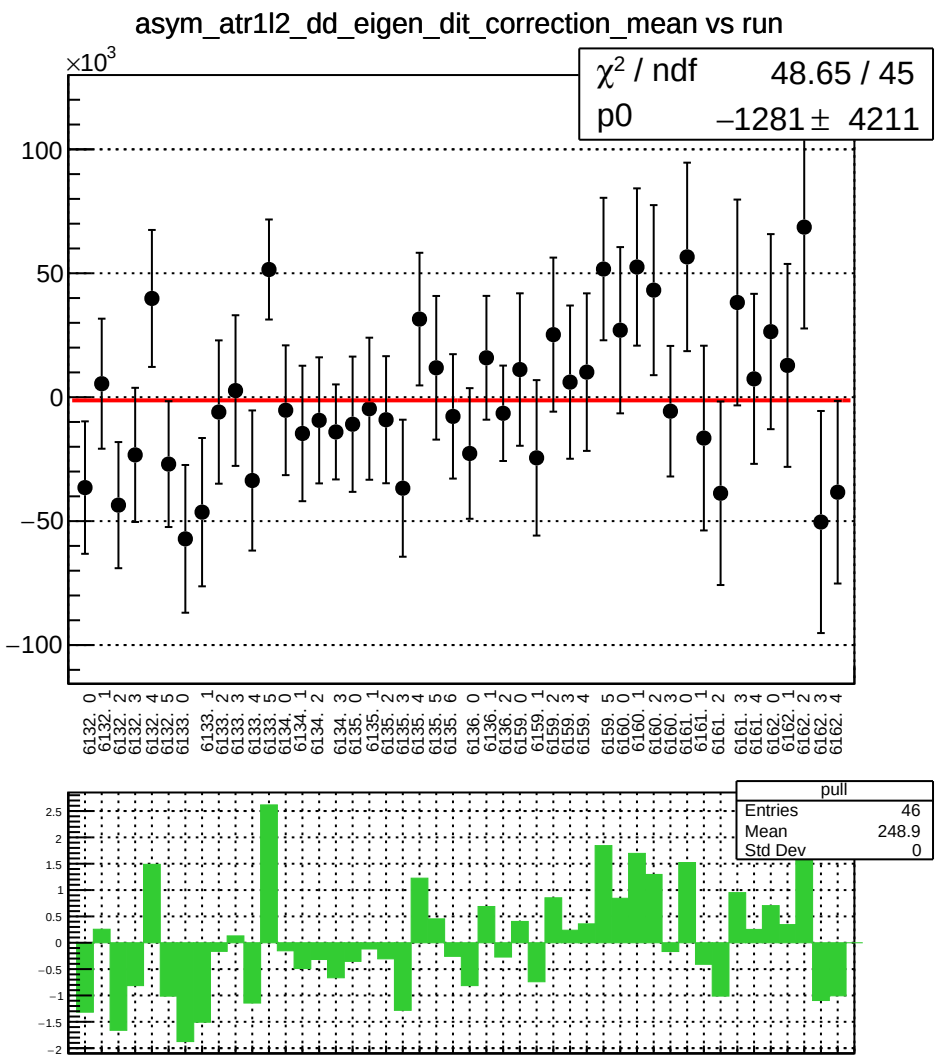
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 48.65 / 45
p0 −1281 ± 4211
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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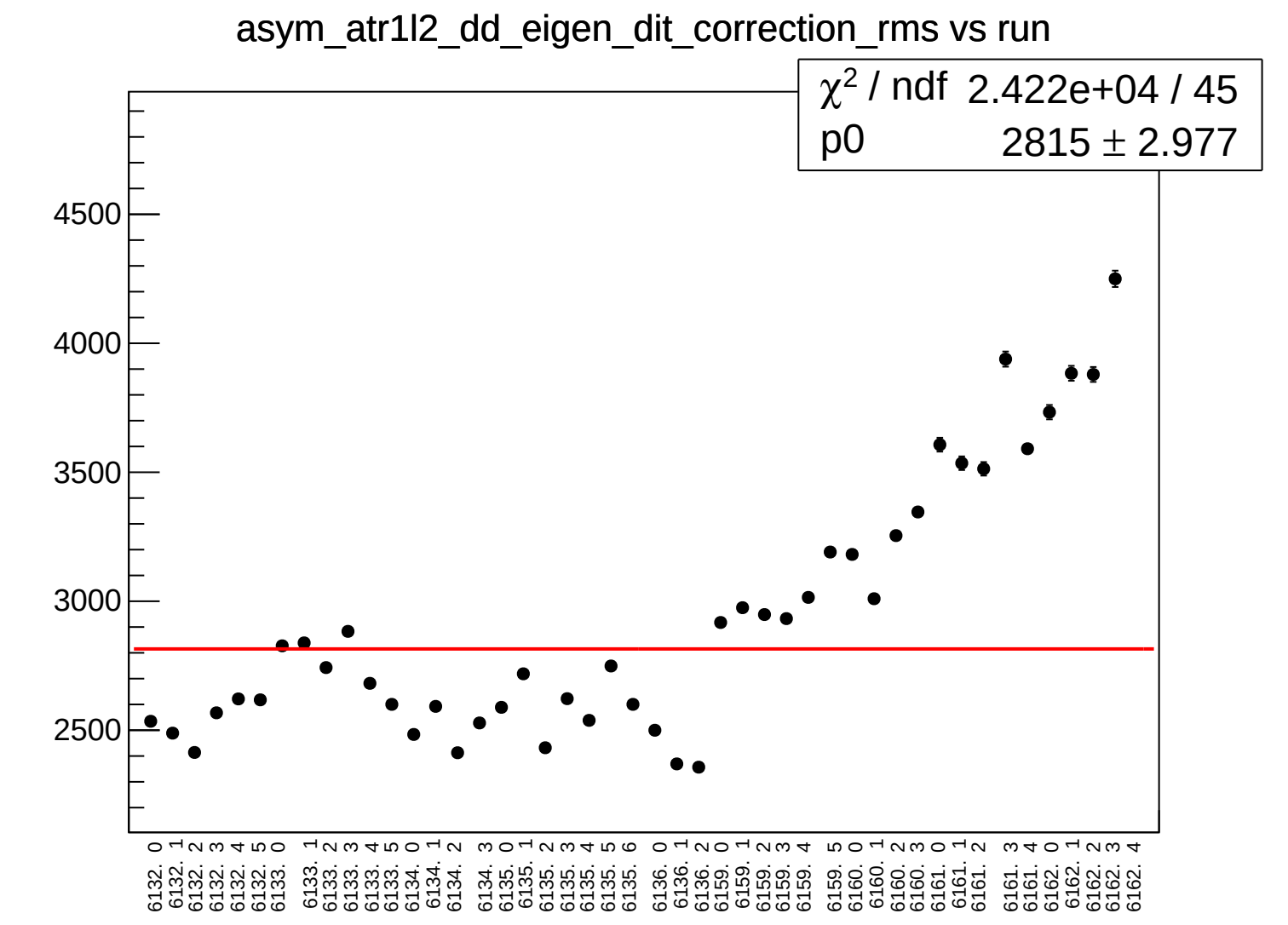
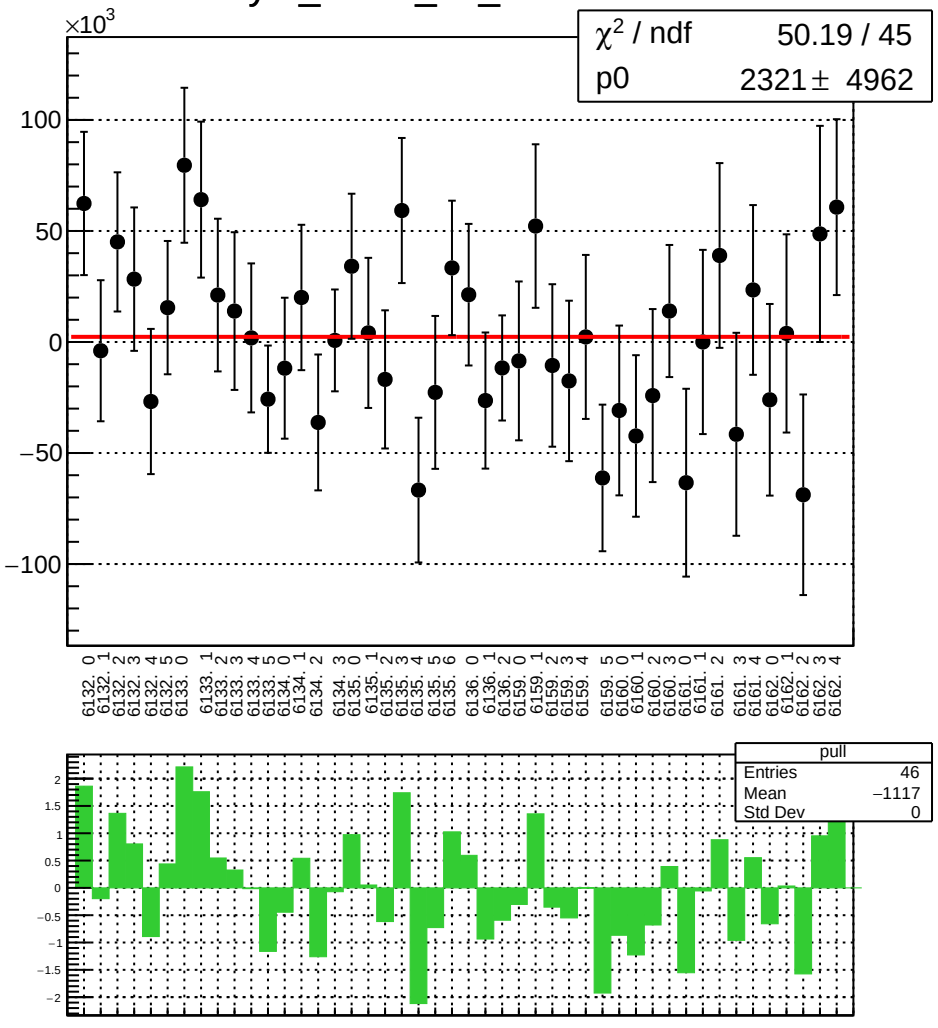
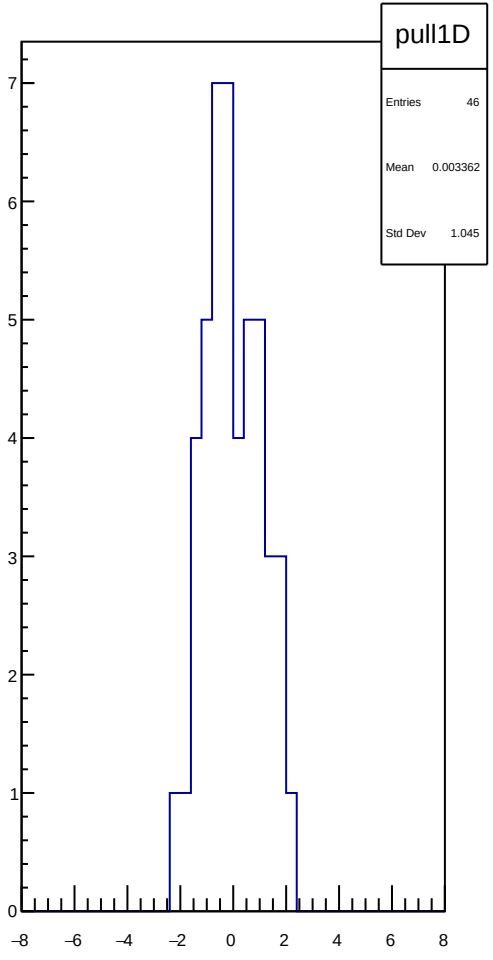
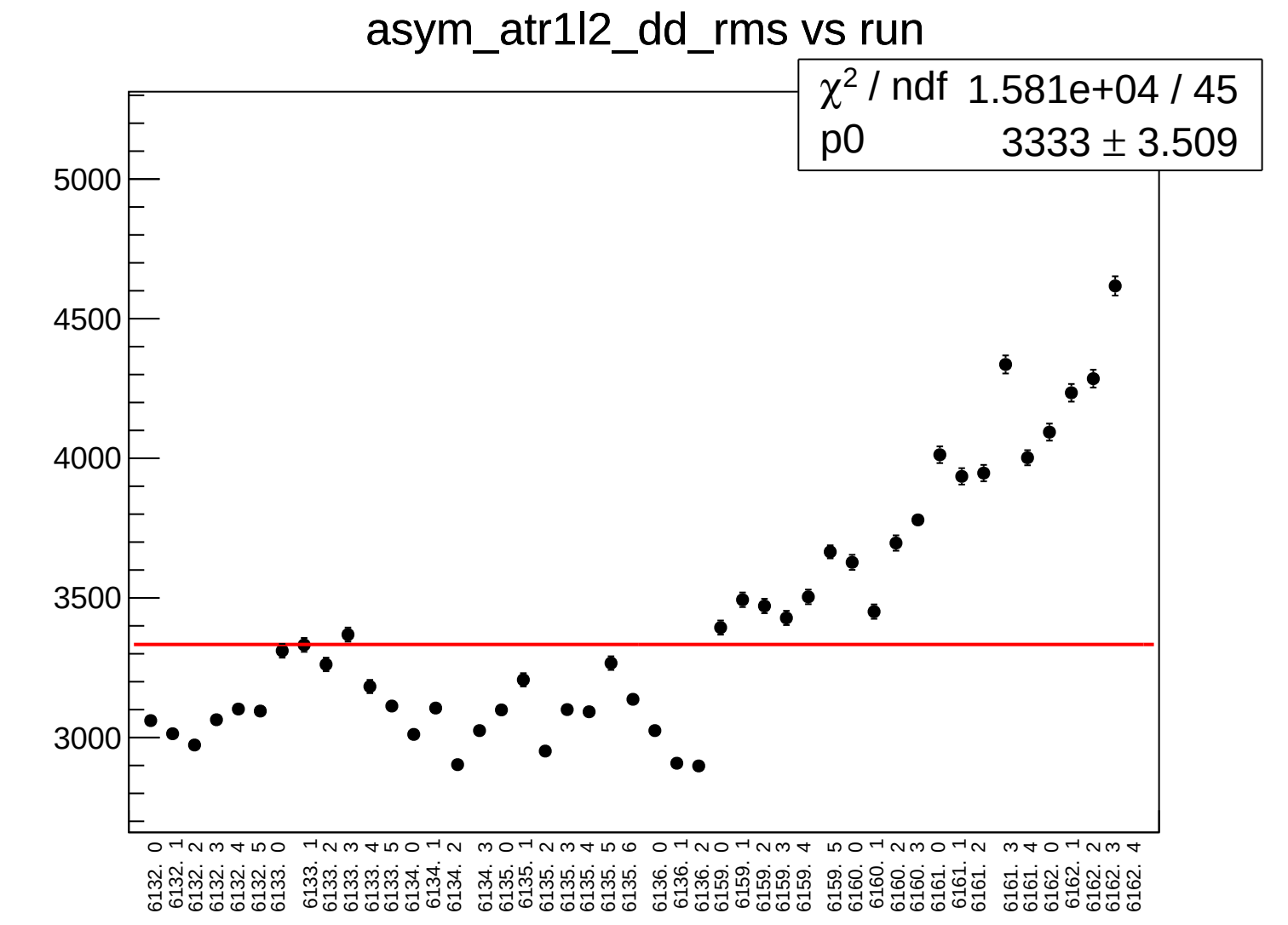
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 248.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.02035
Std Dev 1.028
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.422e+04 / 45
p0 2815 ± 2.977
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 50.19 / 45
p0 2321 ± 4962
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1117
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.003362
Std Dev 1.045
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_rms vs run
χ² / ndf 1.581e+04 / 45
p0 3333 ± 3.509
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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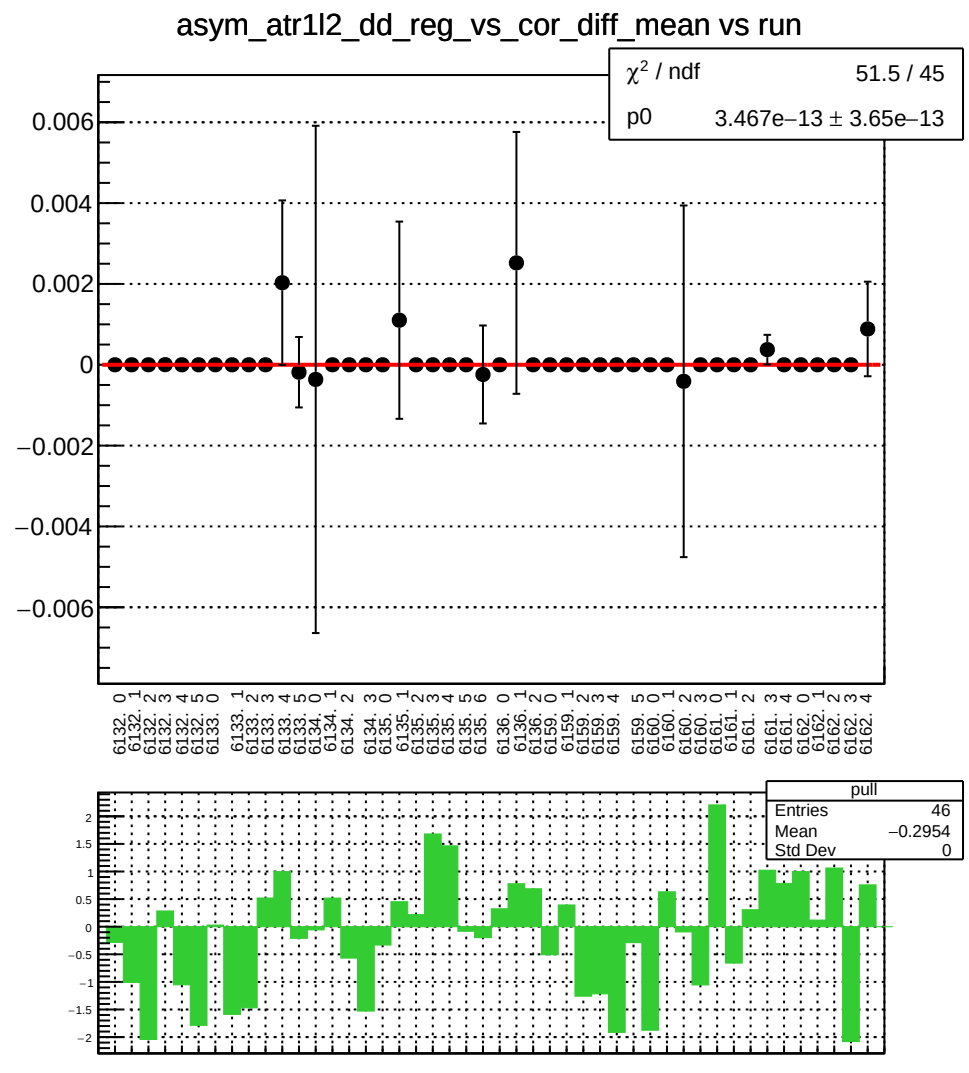
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 51.5 / 45
p0 3.467e−13 ± 3.65e−13
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6134. 2
6134. 3
6135. 0
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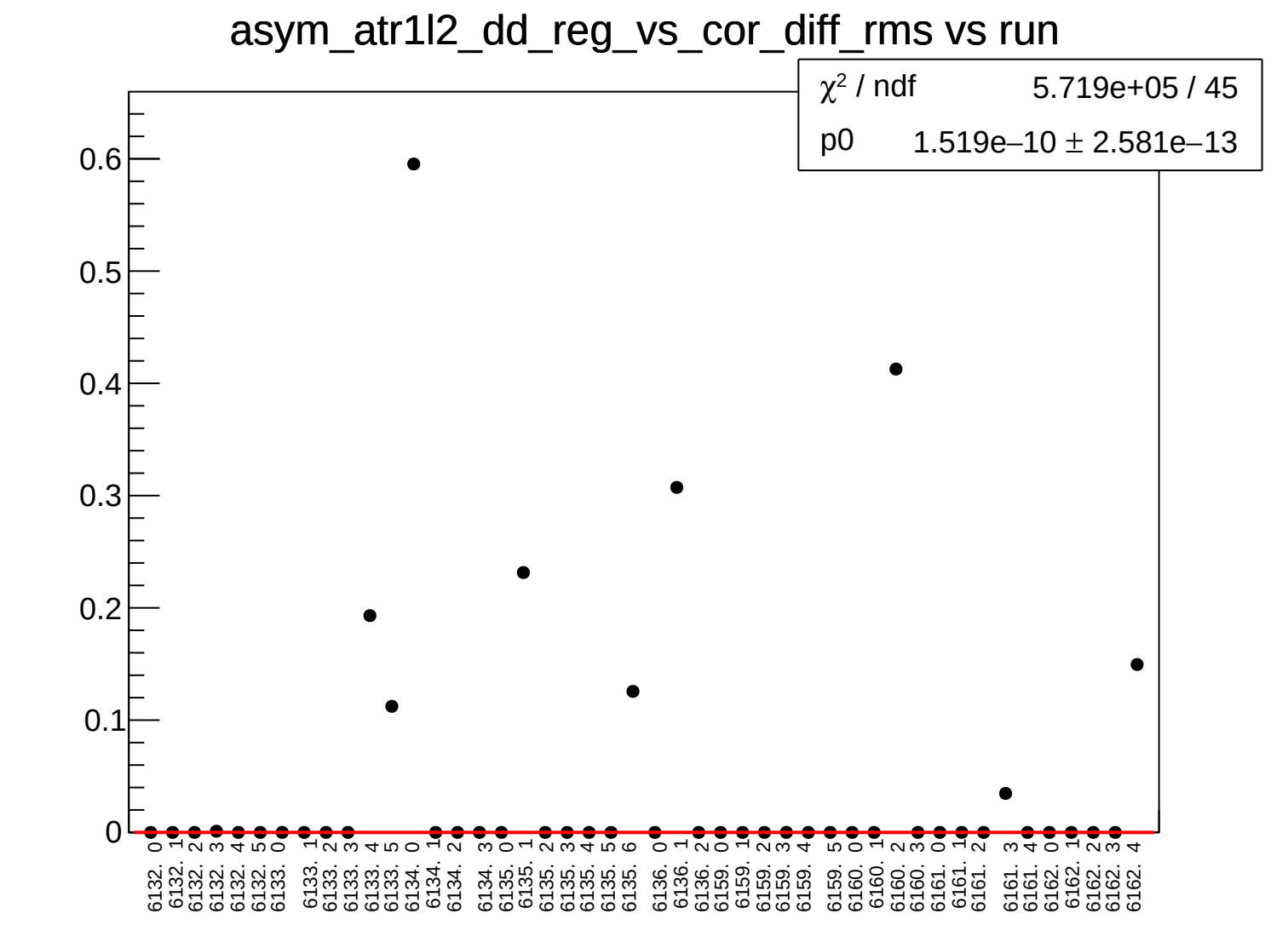
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6160. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −0.2954
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.1506
Std Dev 1.047
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.719e+05 / 45
p0 1.519e−10 ± 2.581e−13
0.6
0.5
0.4
0.3
0.2
0.1
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
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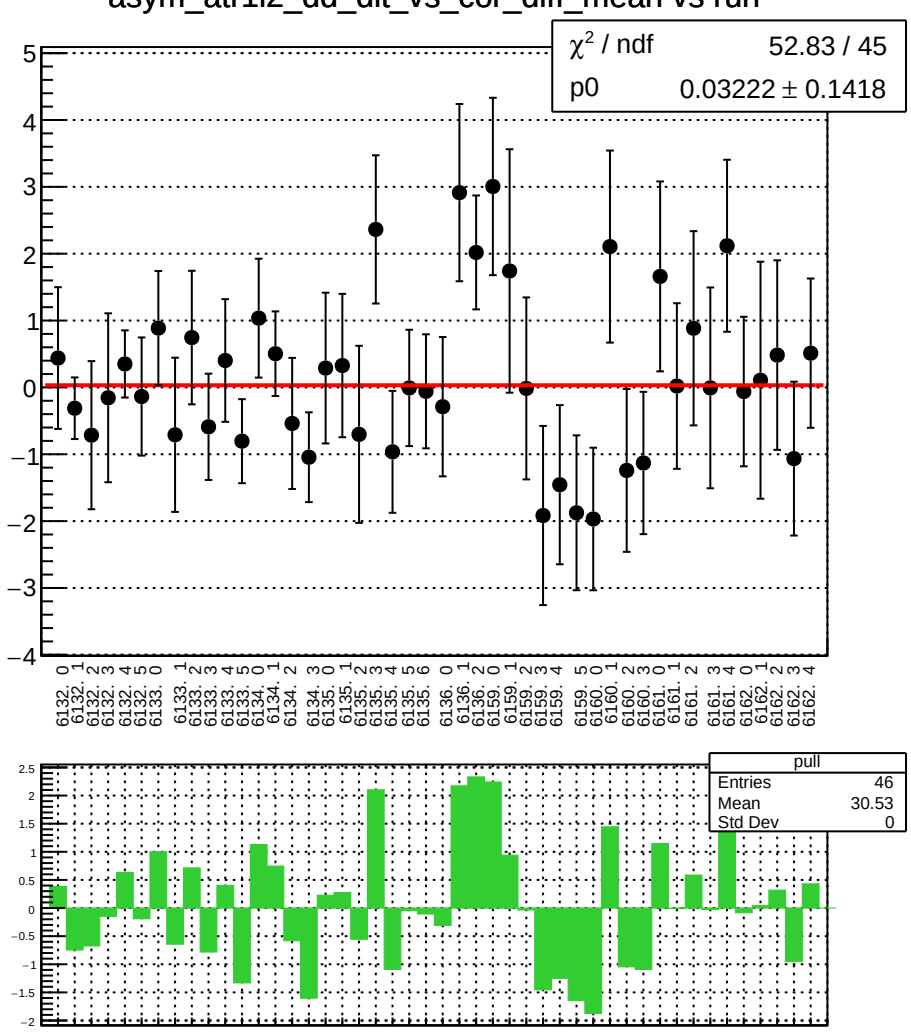
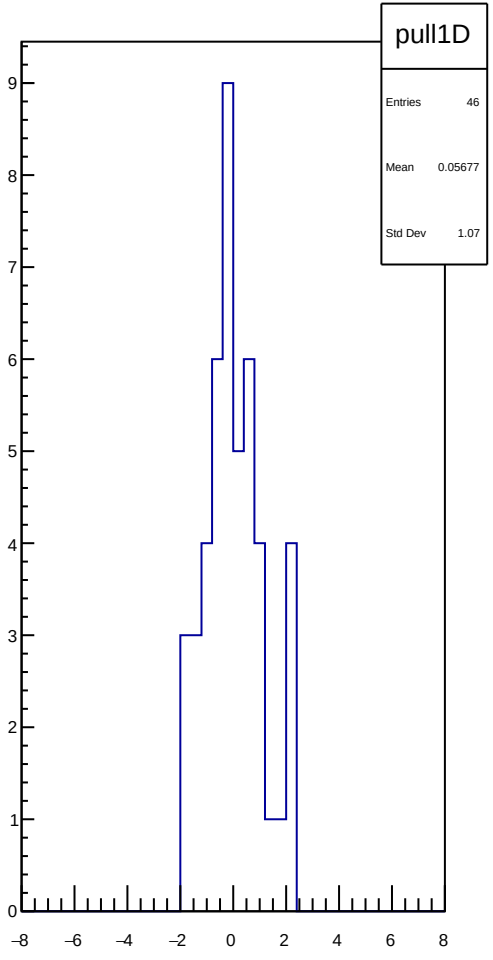
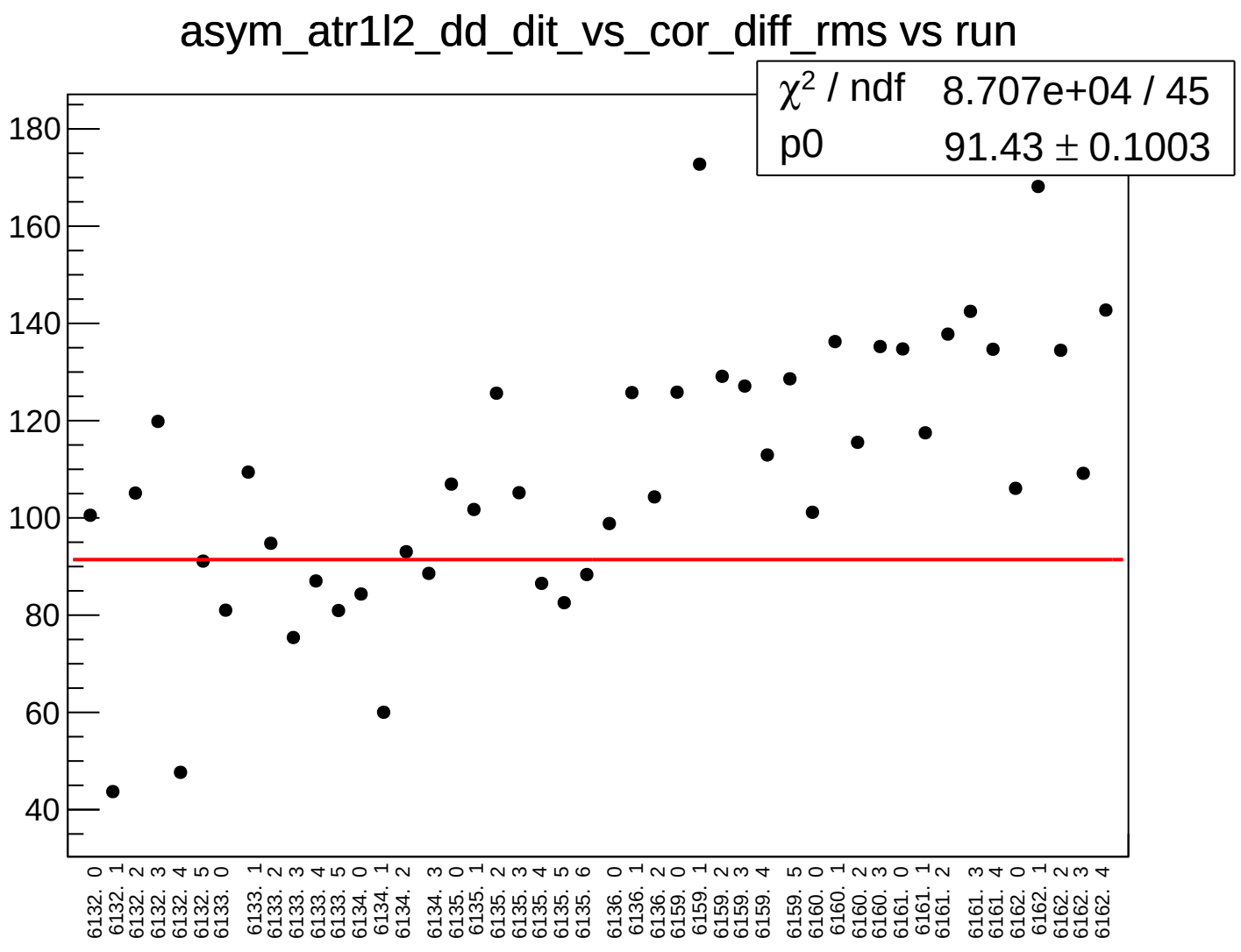
6162. 3
6162. 4


asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 52.83 / 45
p0 0.03222 ± 0.1418
pull
Entries 46
Mean 30.53
Std Dev 0


pull1D
Entries 46
Mean 0.05677
Std Dev 1.07


asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.707e+04 / 45
p0 91.43 ± 0.1003
180
160
140
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
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6160. 1
6160. 2
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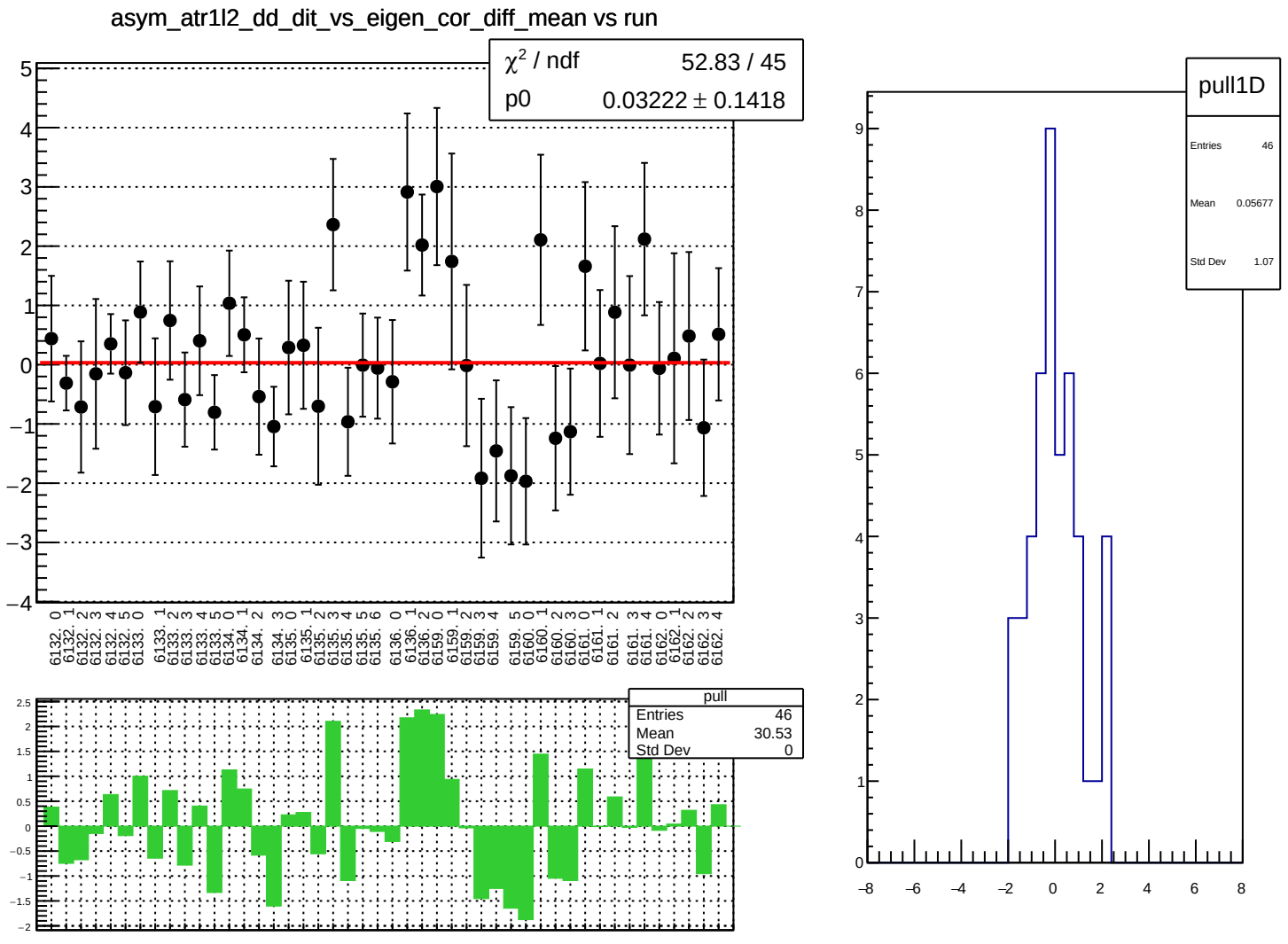
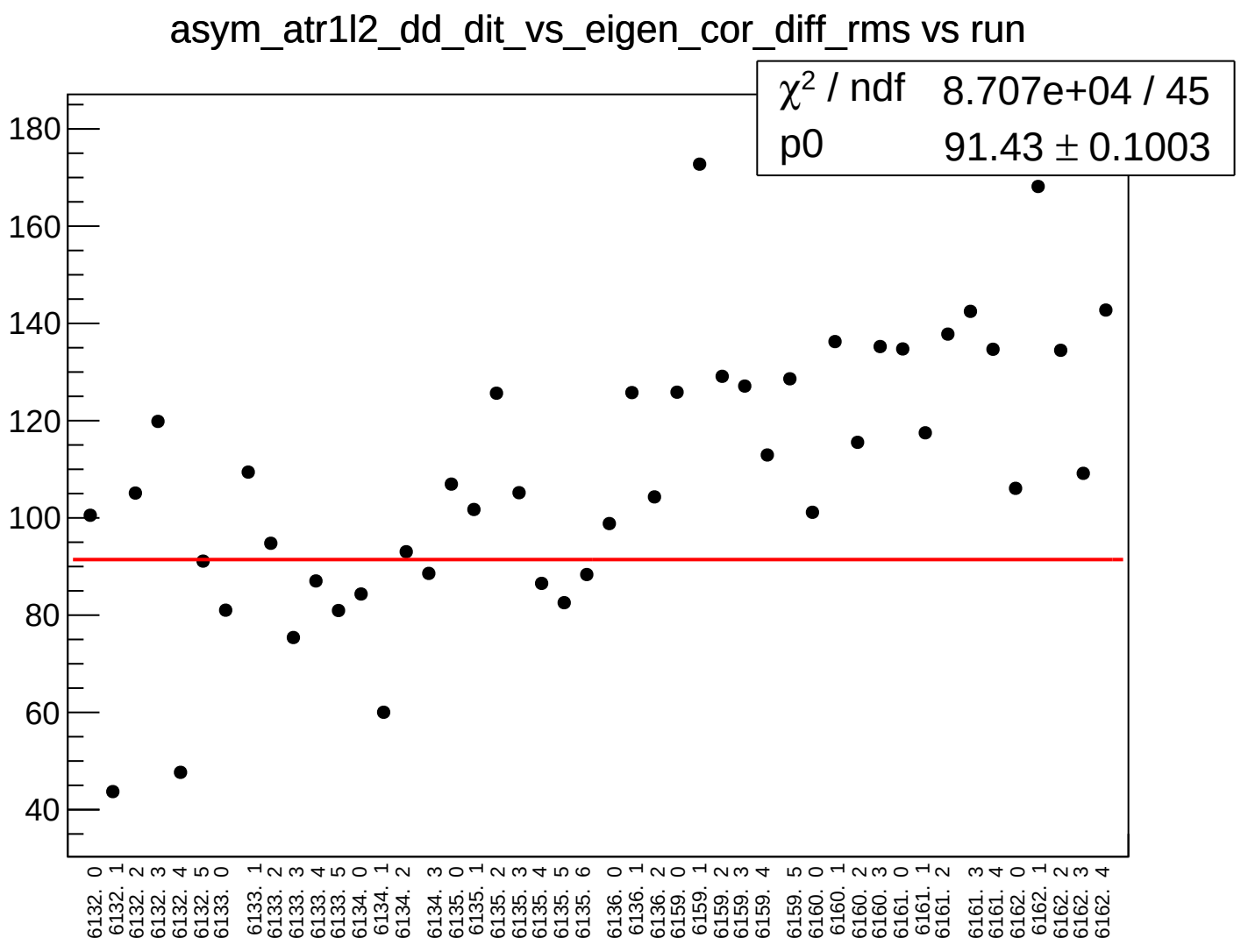
6162. 4


asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.83 / 45
p0 0.03222 ± 0.1418
pull
Entries 46
Mean 30.53
Std Dev 0
pull1D
Entries 46
Mean 0.05677
Std Dev 1.07


asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.707e+04 / 45
p0 91.43 ± 0.1003
180
160
140
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6160. 1
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6161. 3
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6162. 0
6162. 1
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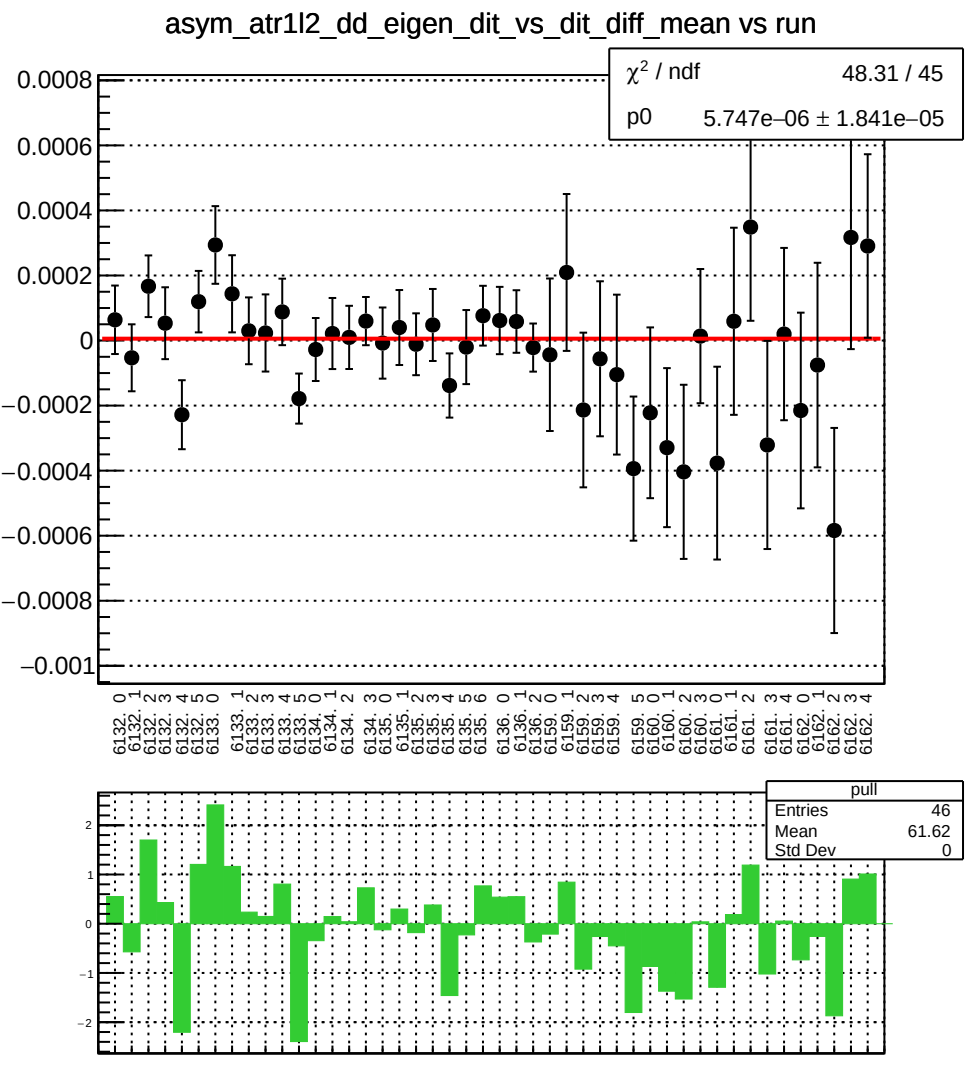
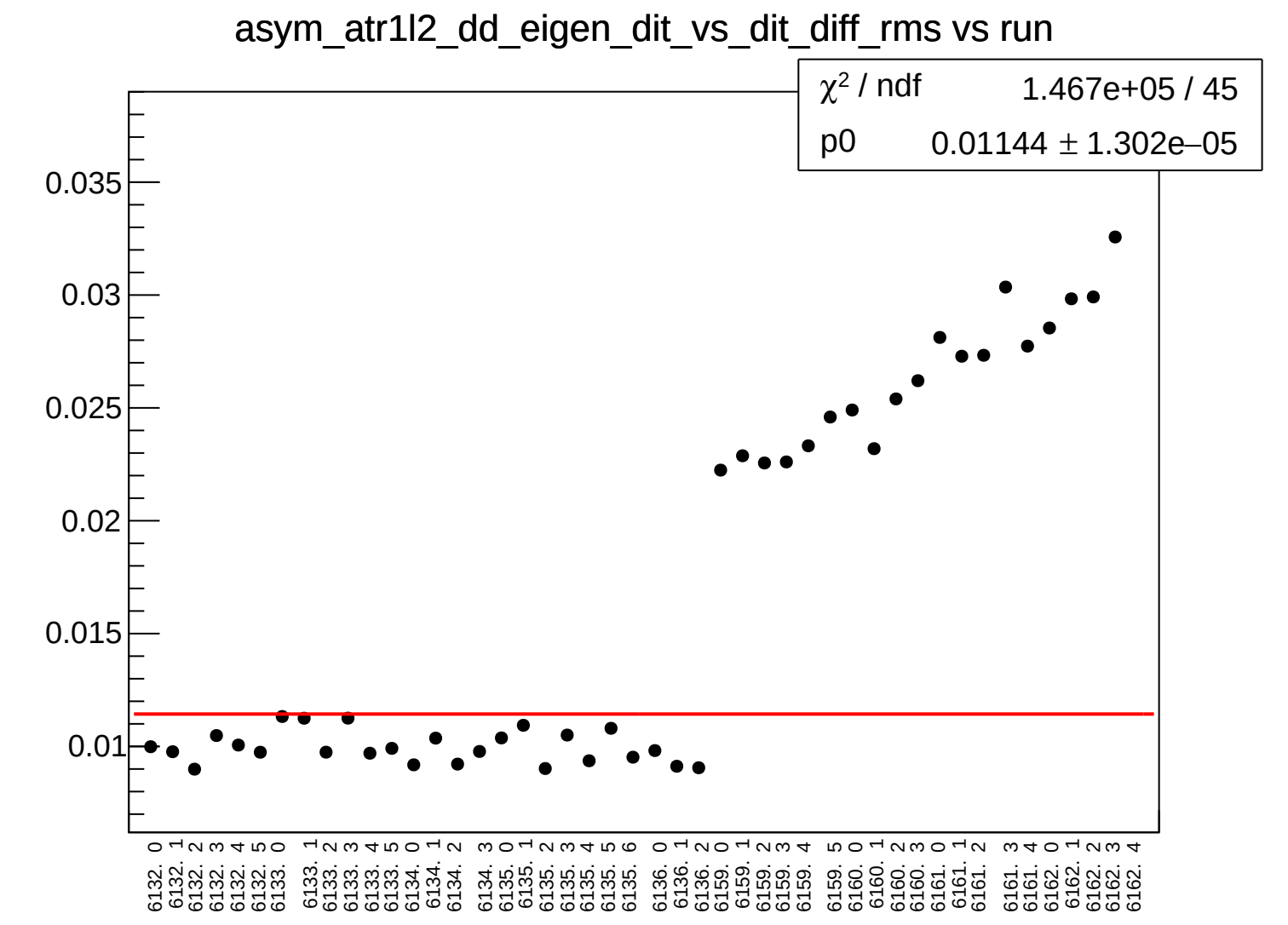
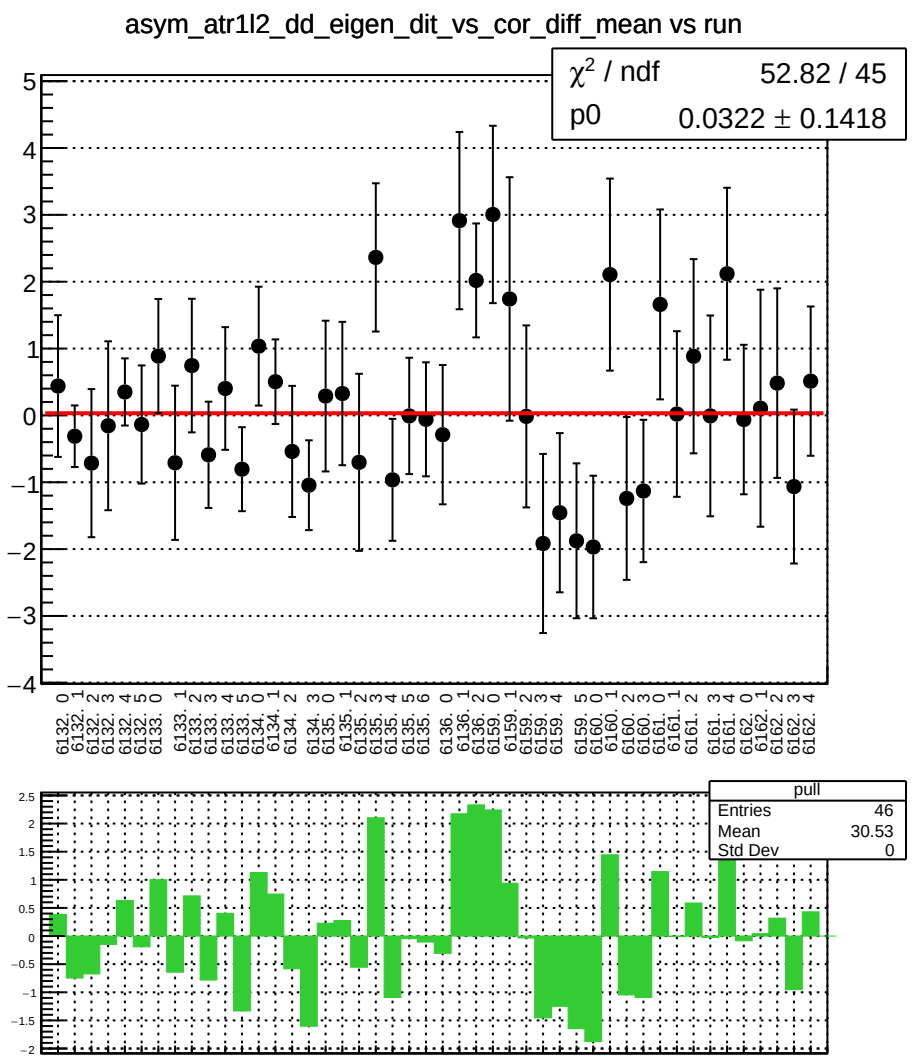
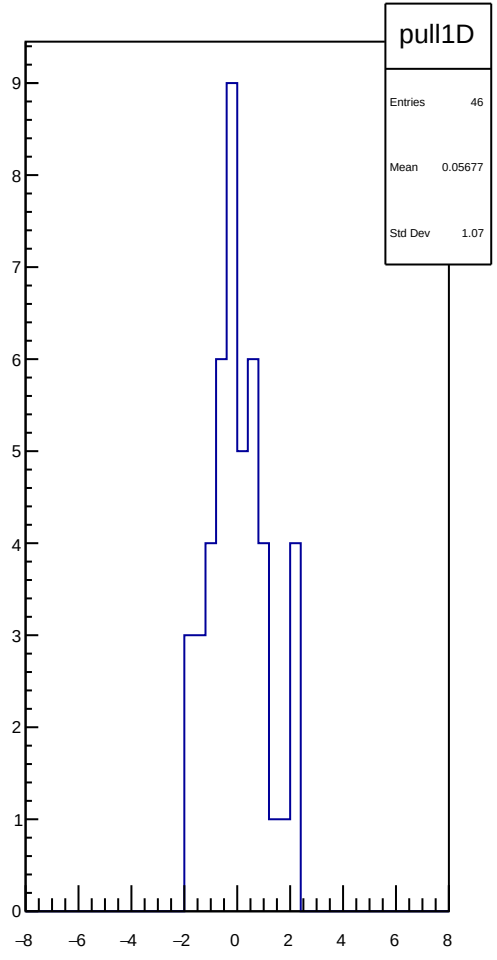
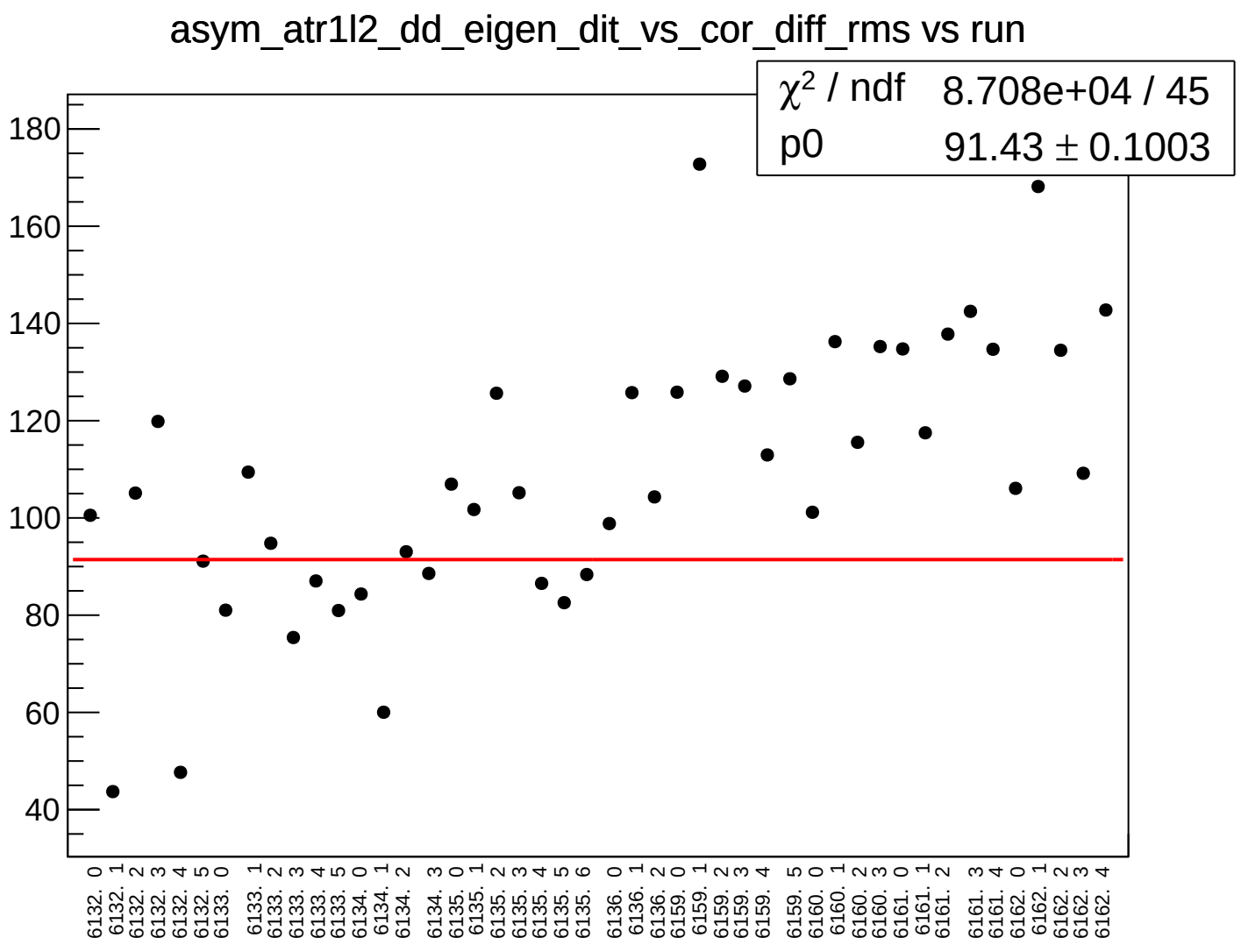
6162. 3
6162. 4

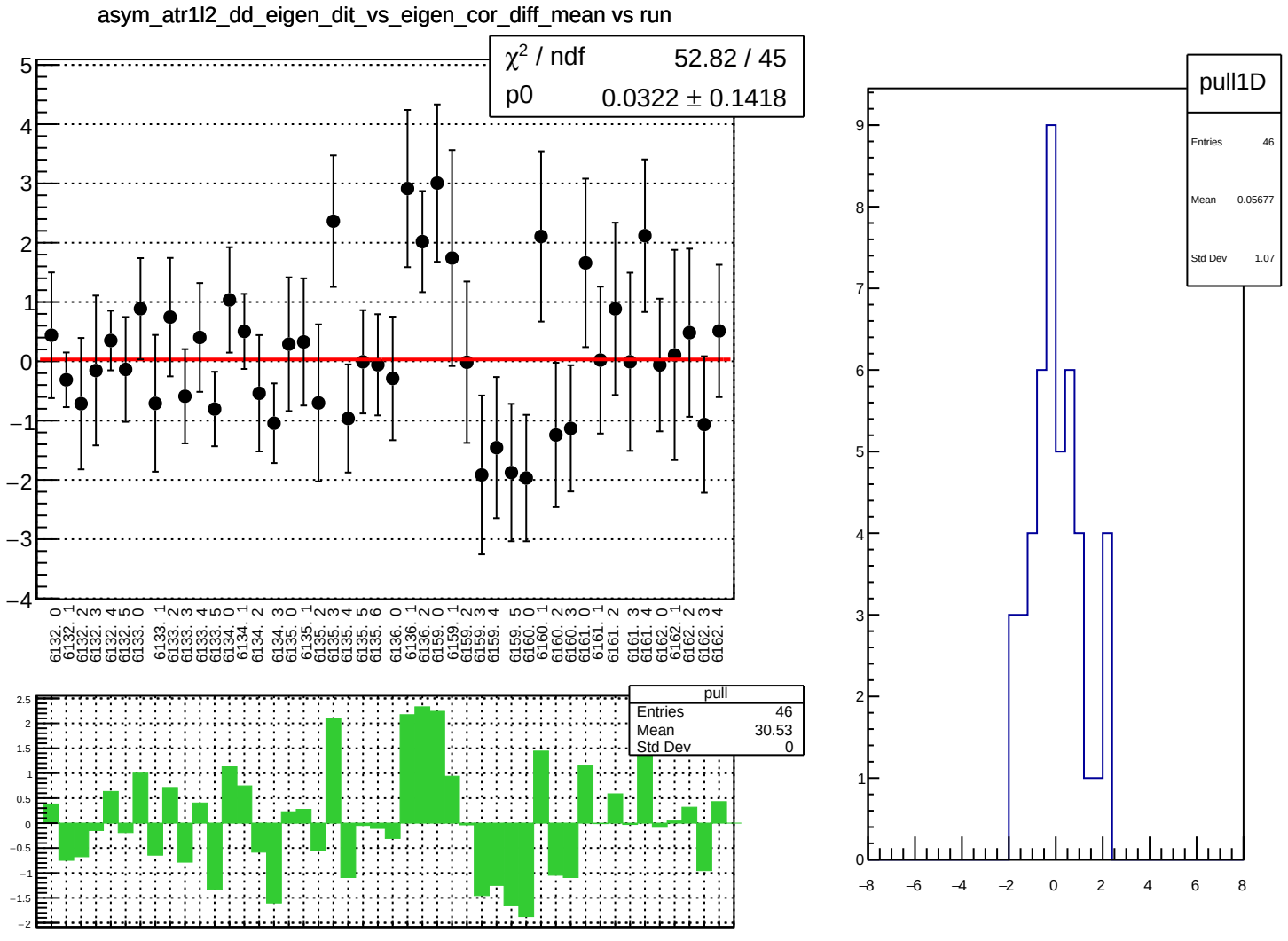

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 48.31 / 45
p0 5.747e−06 ± 1.841e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 61.62
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.08987
Std Dev 1.021
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

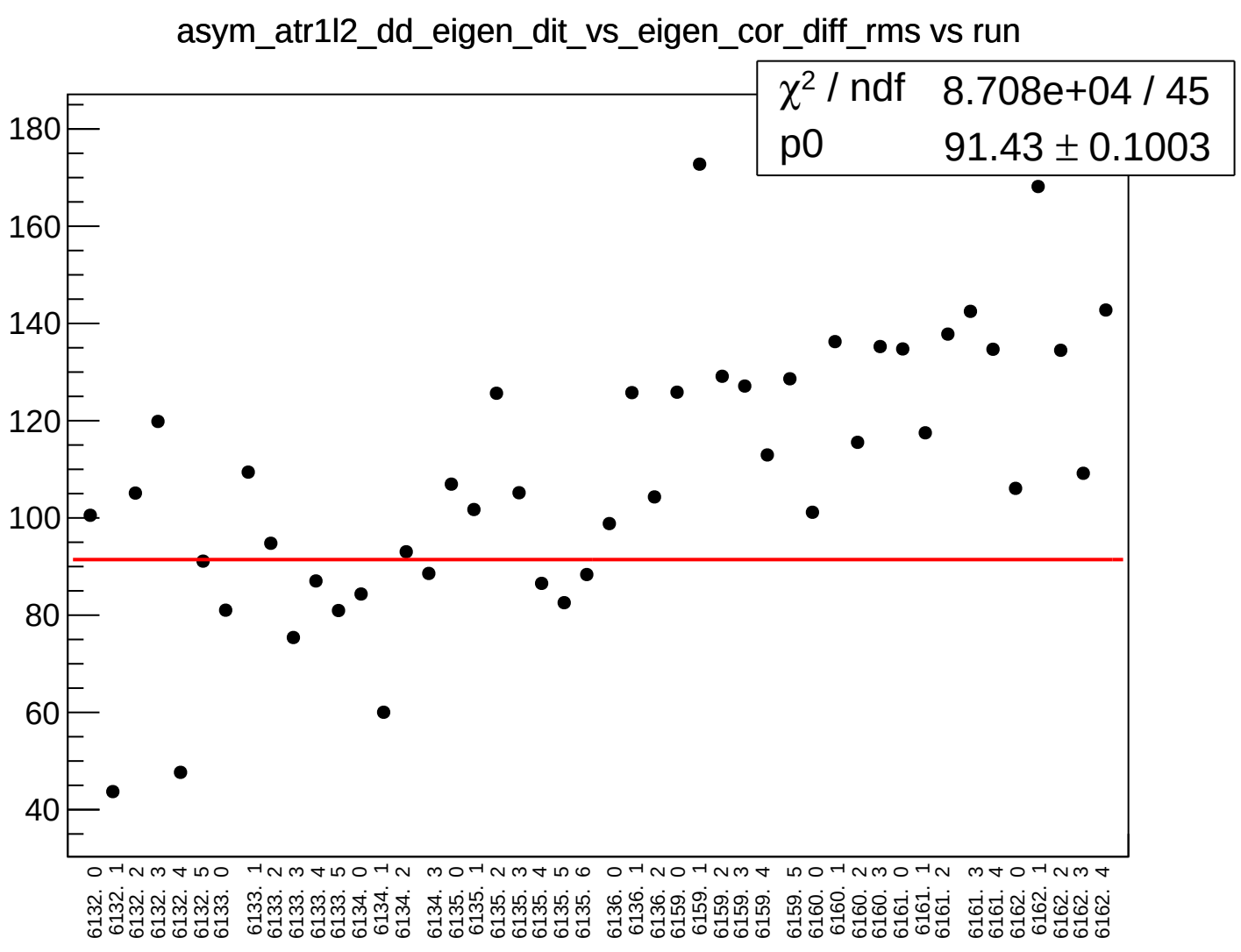

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.467e+05 / 45
p0 0.01144 ± 1.302e−05
0.035
0.03
0.025
0.02
0.015
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

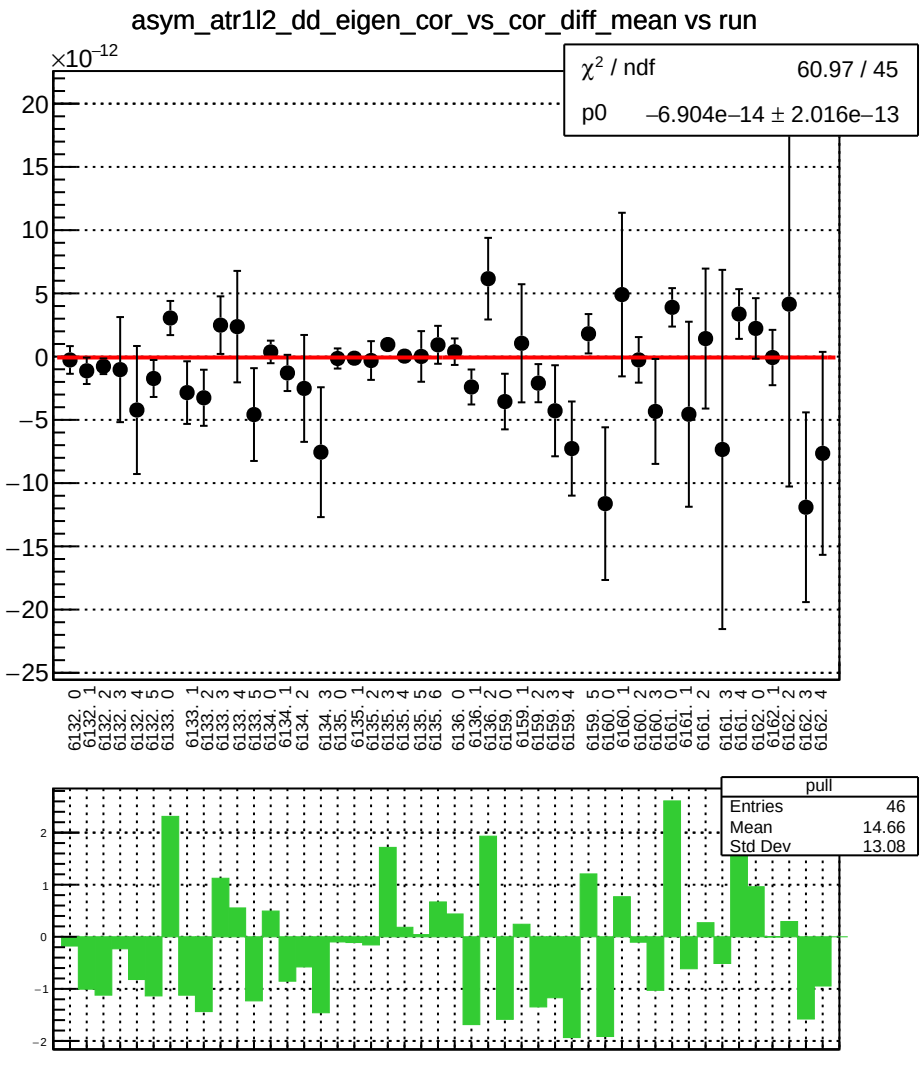

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 52.82 / 45
p0 0.0322 ± 0.1418
pull
Entries 46
Mean 30.53
Std Dev 0

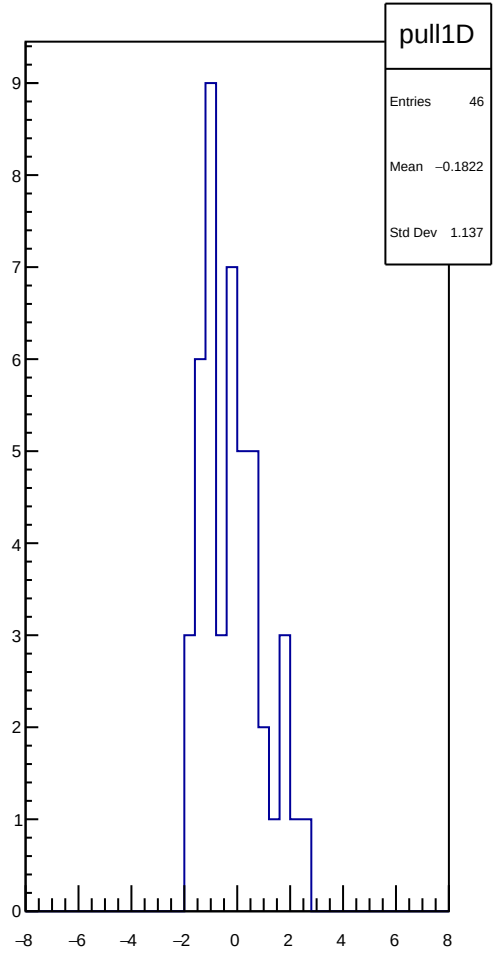

pull1D
Entries 46
Mean 0.05677
Std Dev 1.07

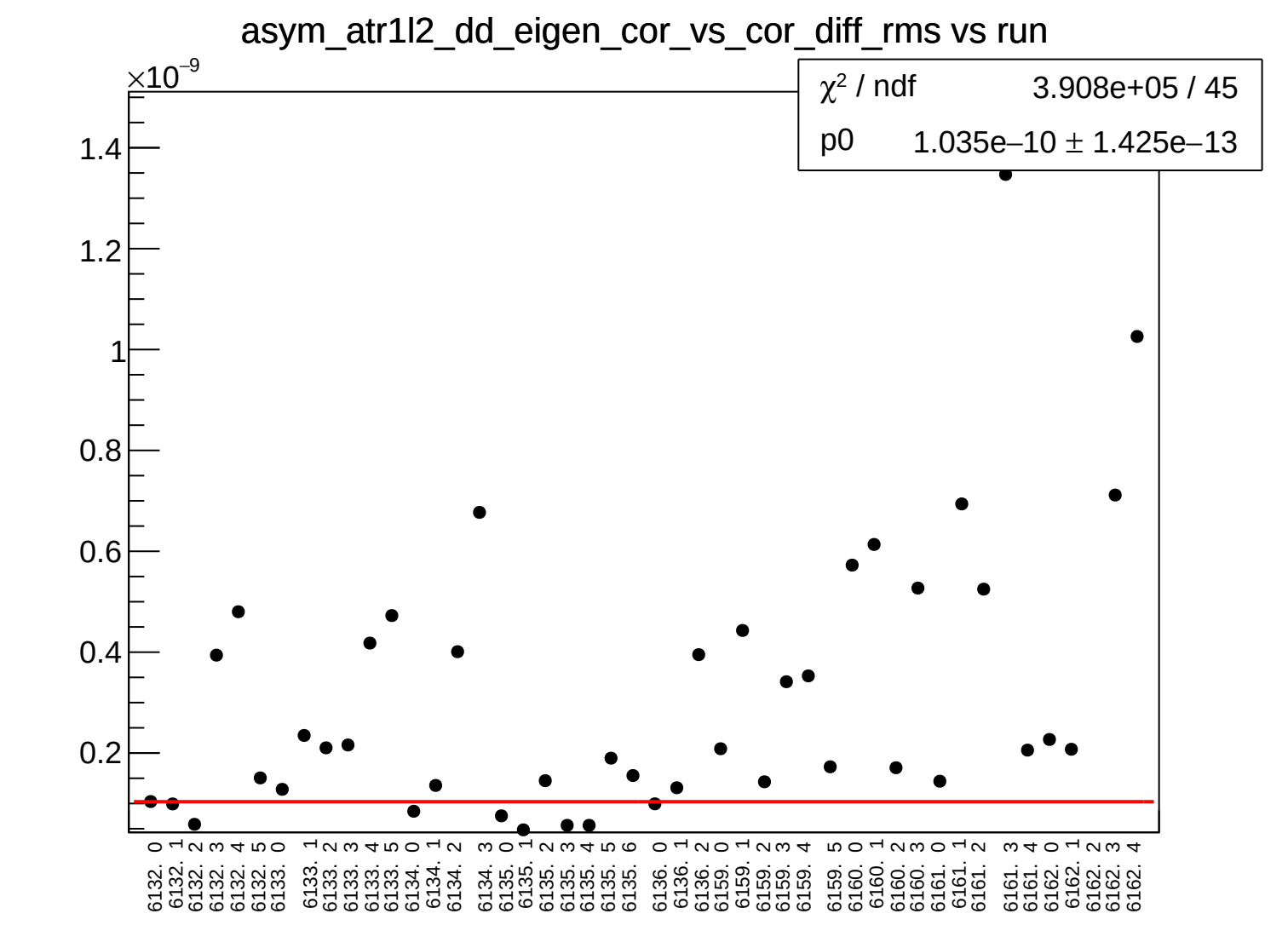

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.708e+04 / 45
p0 91.43 ± 0.1003
180
160
140
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

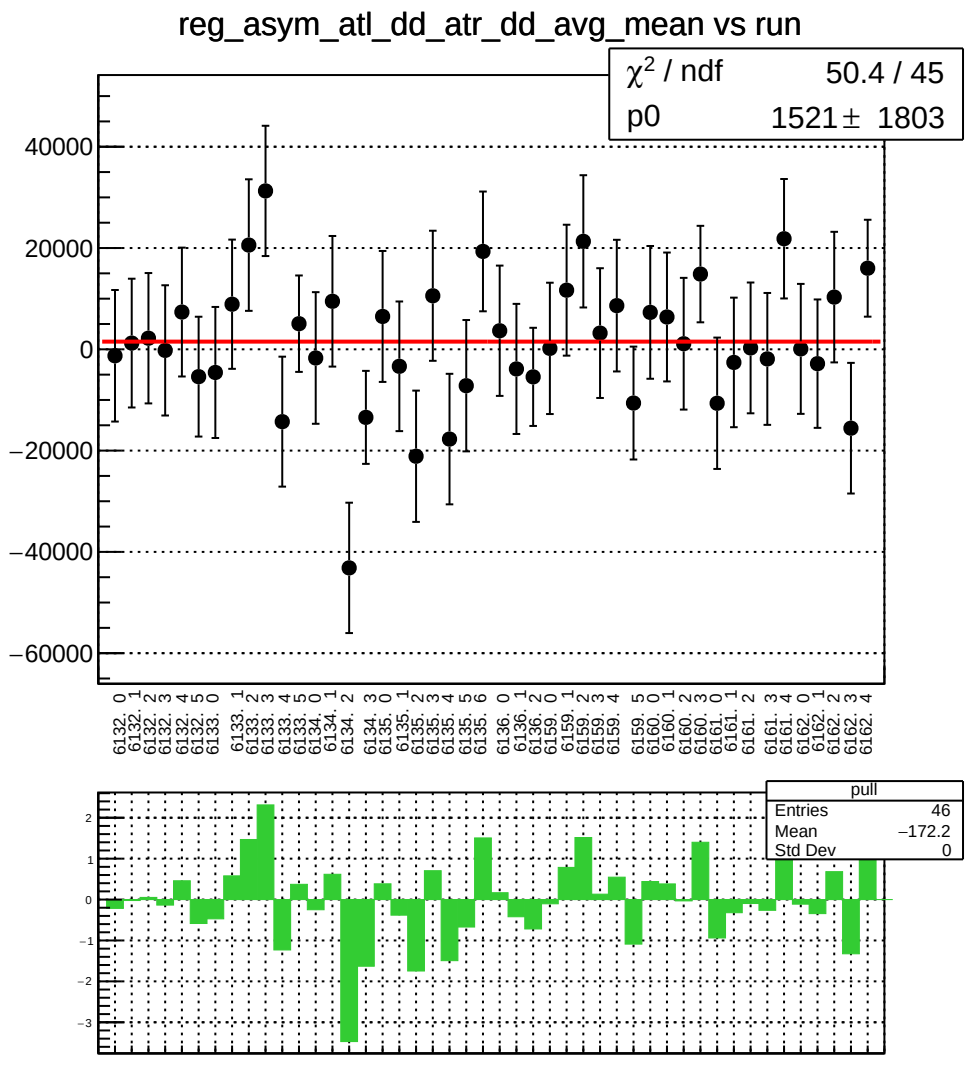

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.82 / 45
p0 0.0322 ± 0.1418
pull
Entries 46
Mean 30.53
Std Dev 0
pull1D
Entries 46
Mean 0.05677
Std Dev 1.07

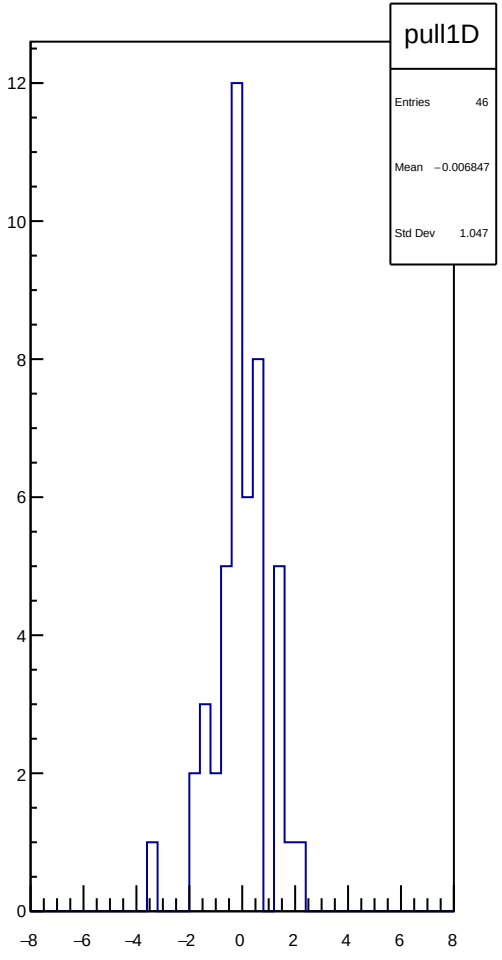

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.708e+04 / 45
p0 91.43 ± 0.1003
180
160
140
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

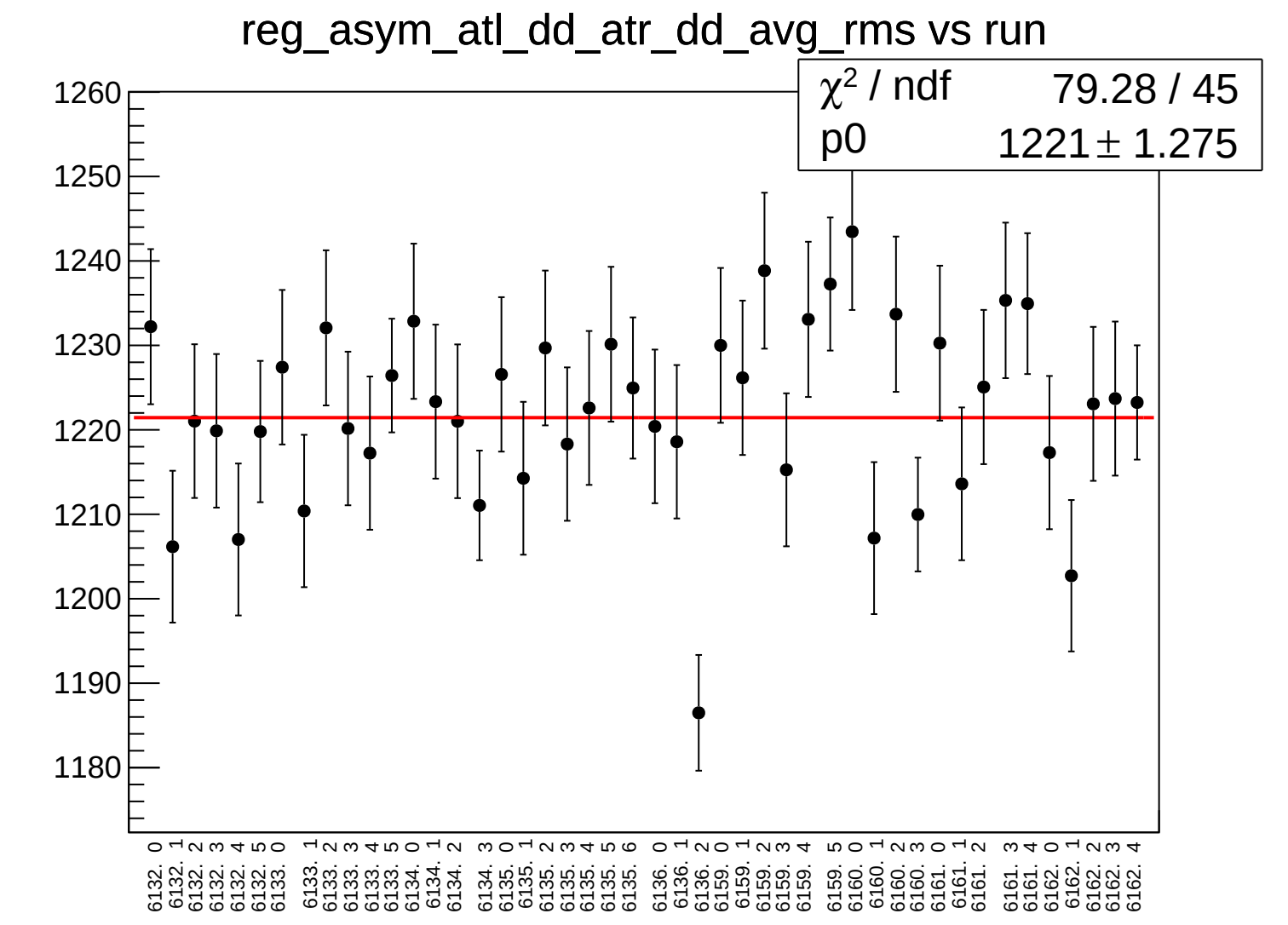

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 60.97 / 45
p0 −6.904e−14 ± 2.016e−13
pull
Entries 46
Mean 14.66
Std Dev 13.08

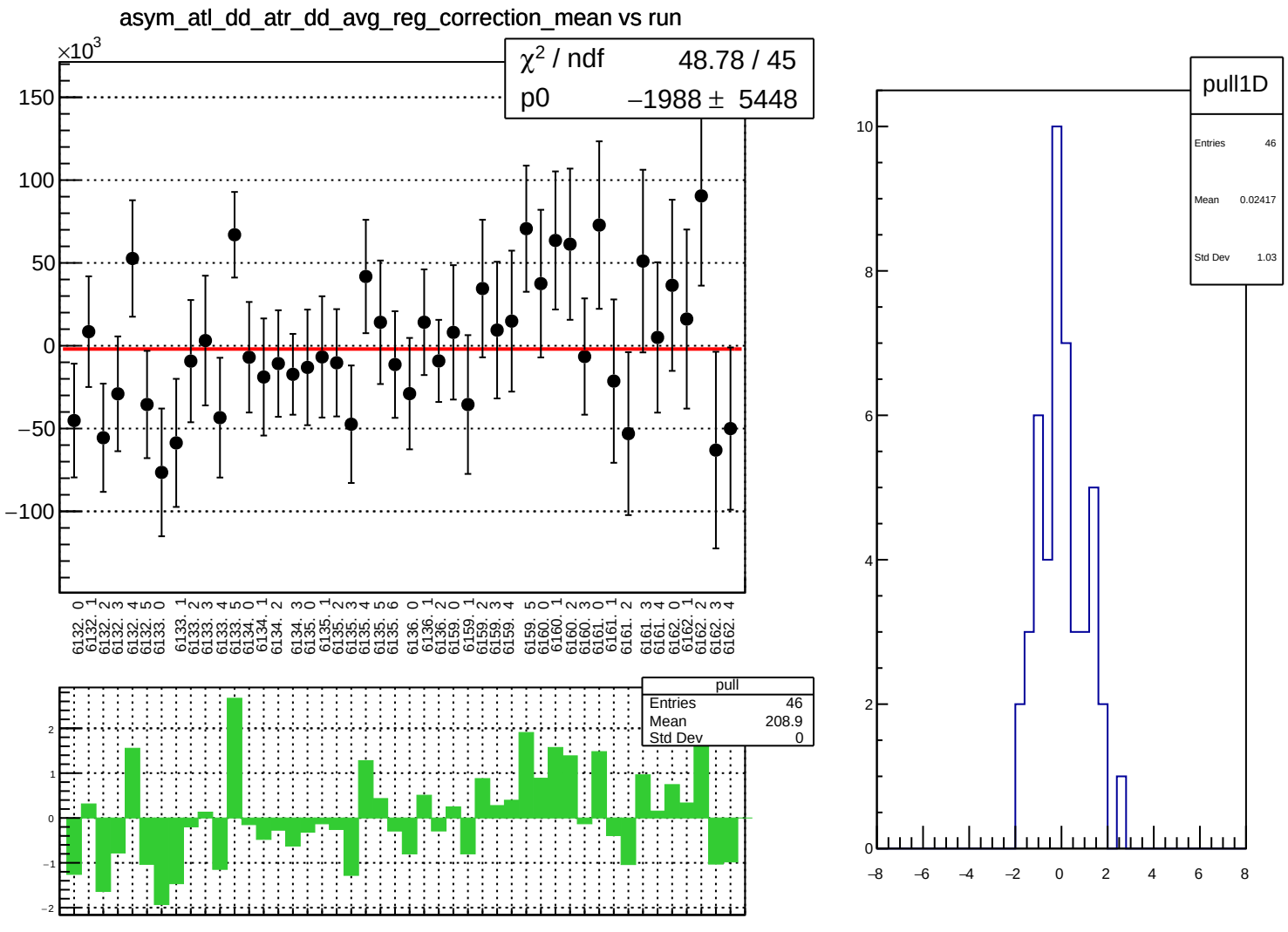

pull1D
Entries 46
Mean −0.1822
Std Dev 1.137

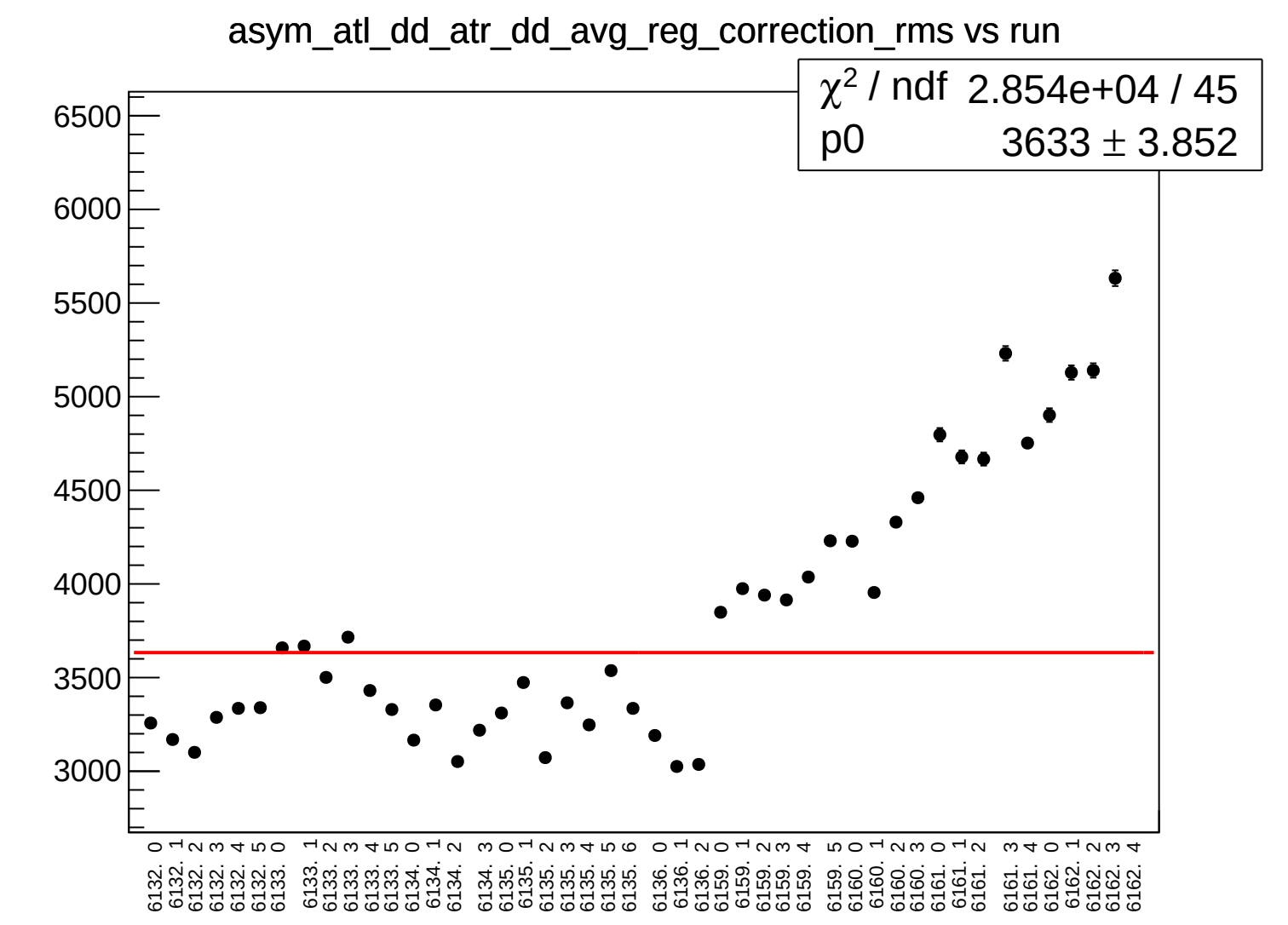

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.908e+05 / 45
p0 1.035e−10 ± 1.425e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 50.4 / 45
p0 1521 ± 1803
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −172.2
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean −0.006847
Std Dev 1.047
12
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 79.28 / 45
p0 1221 ± 1.275
1260
1250
1240
1230
1220
1210
1200
1190
1180
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 48.78 / 45
p0 −1988 ± 5448
150
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 208.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02417
Std Dev 1.03
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 2.854e+04 / 45
p0 3633 ± 3.852
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
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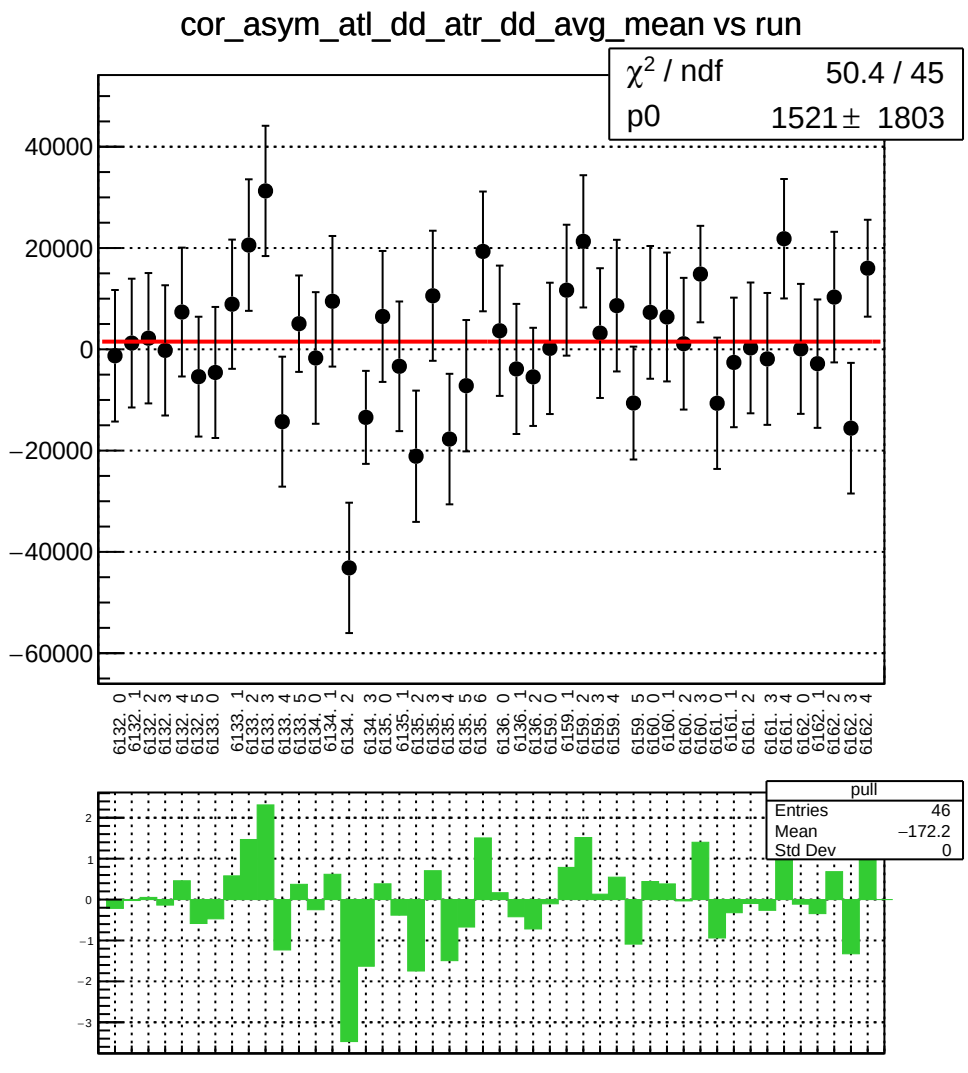
6162. 3
6162. 4


cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 50.4 / 45
p0 1521 ± 1803
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
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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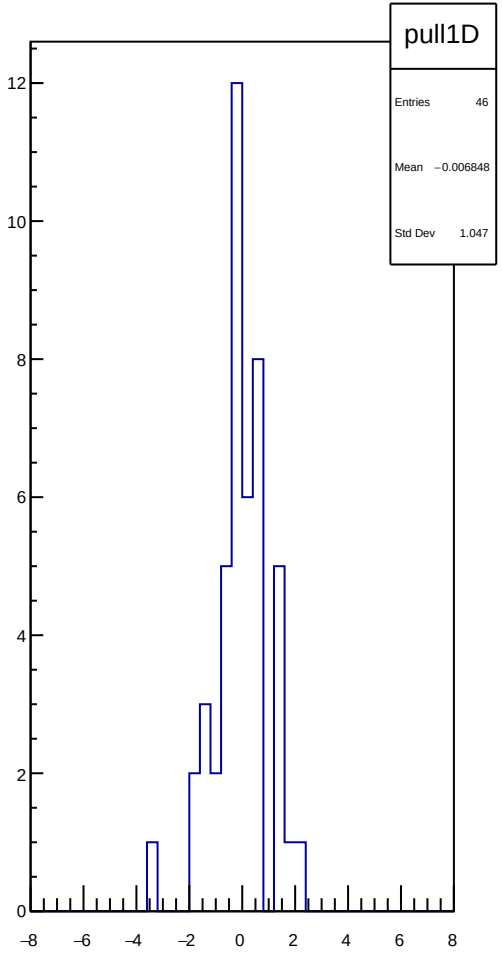
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −172.2
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean −0.006848
Std Dev 1.047
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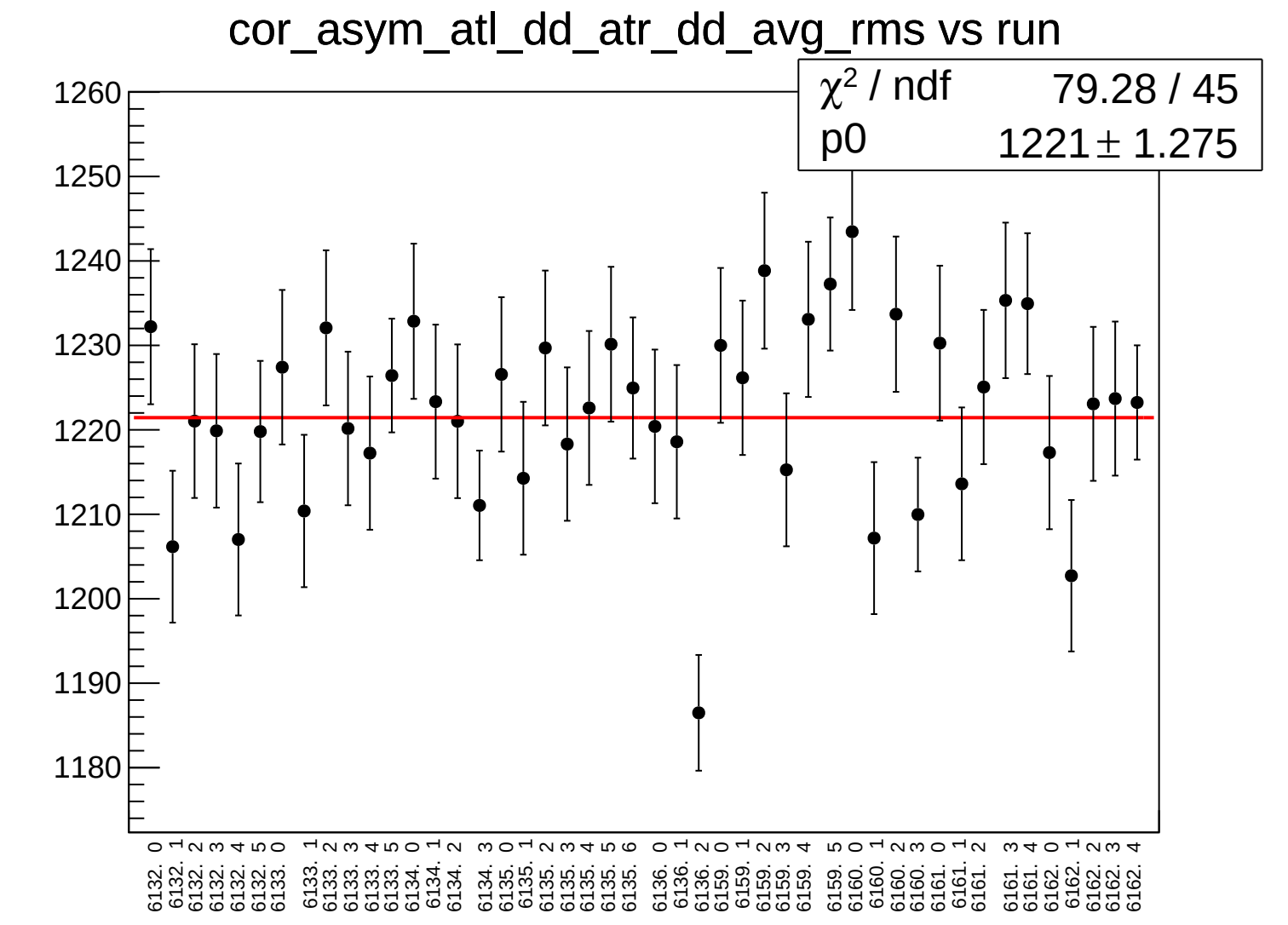
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 79.28 / 45
p0 1221 ± 1.275
1260
1250
1240
1230
1220
1210
1200
1190
1180
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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6159. 2
6159. 3
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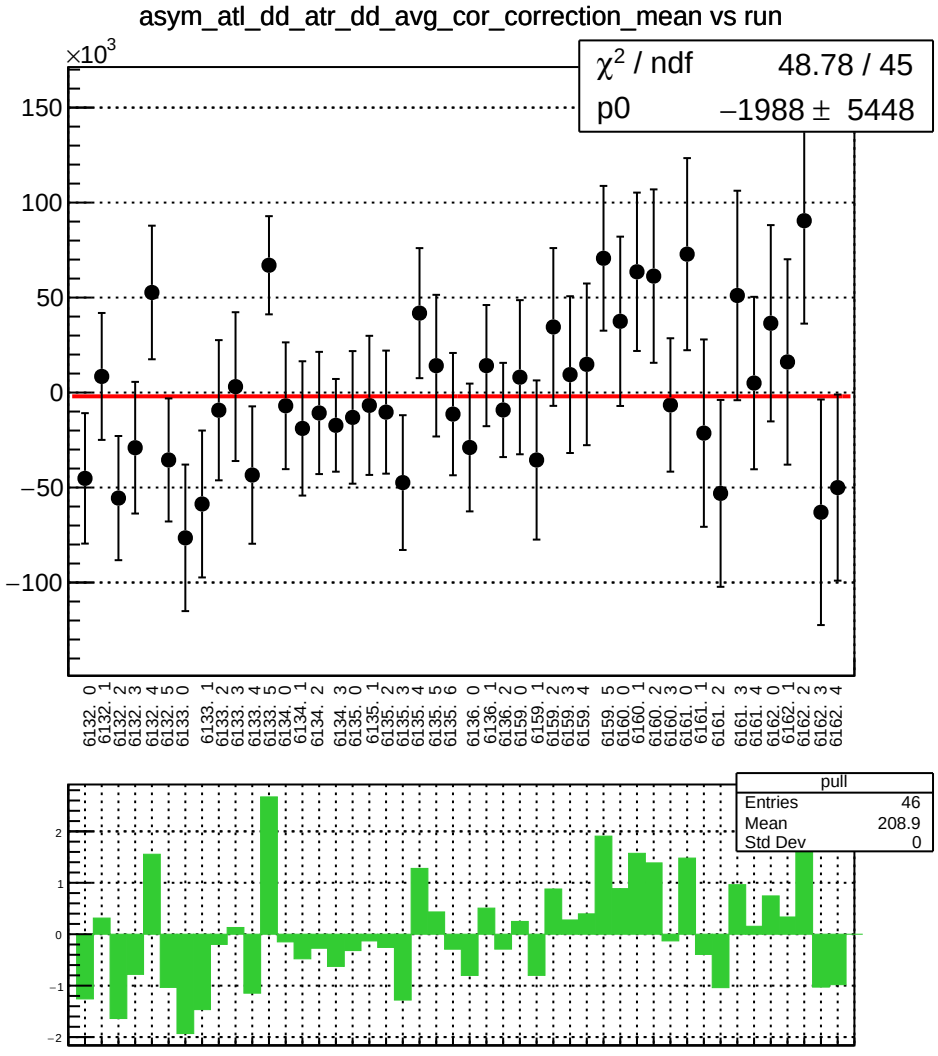
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 48.78 / 45
p0 −1988 ± 5448
150
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6134. 2
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6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
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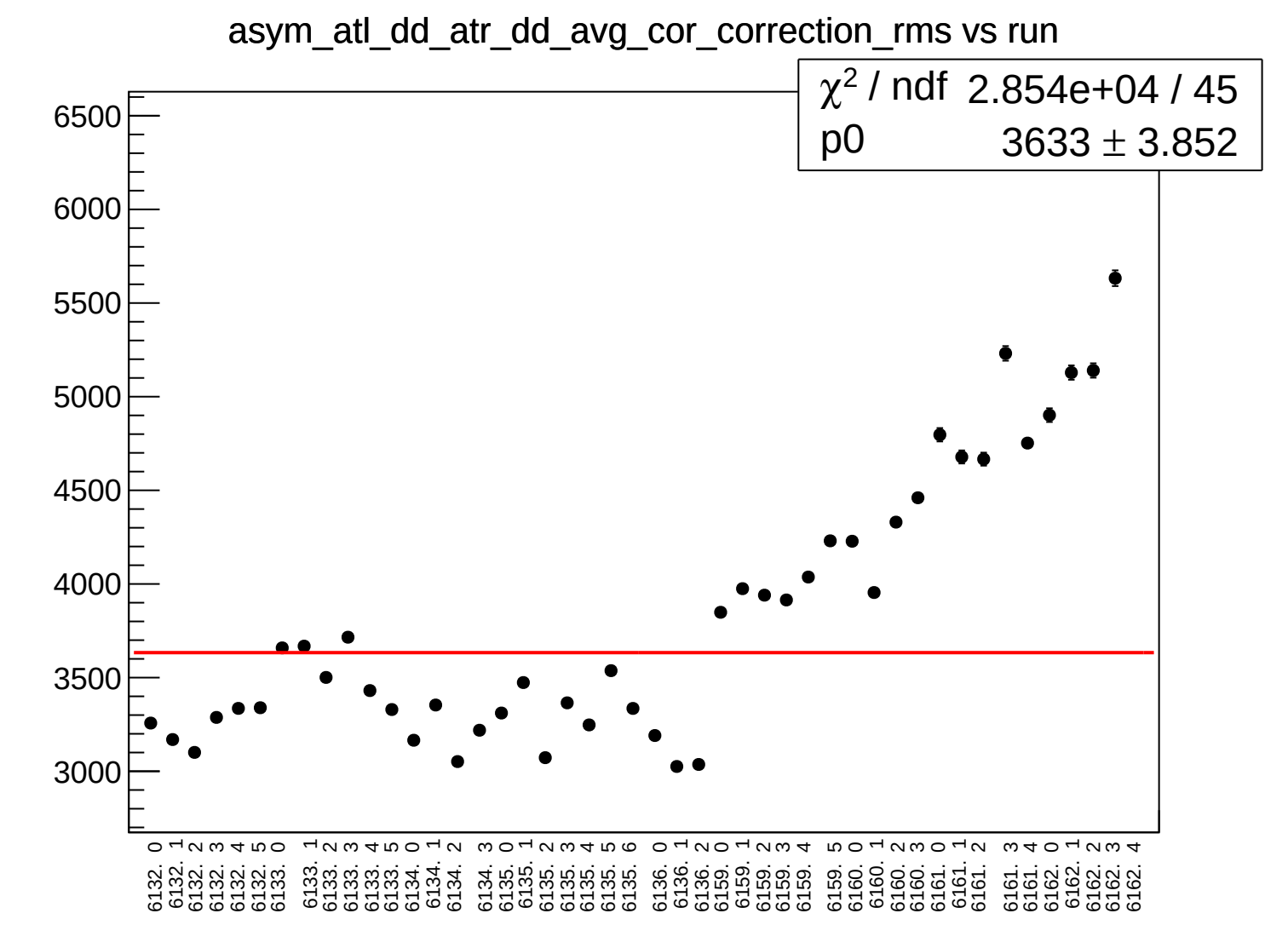
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 208.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02417
Std Dev 1.03
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 2.854e+04 / 45
p0 3633 ± 3.852
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6134. 0
6134. 1
6134. 2
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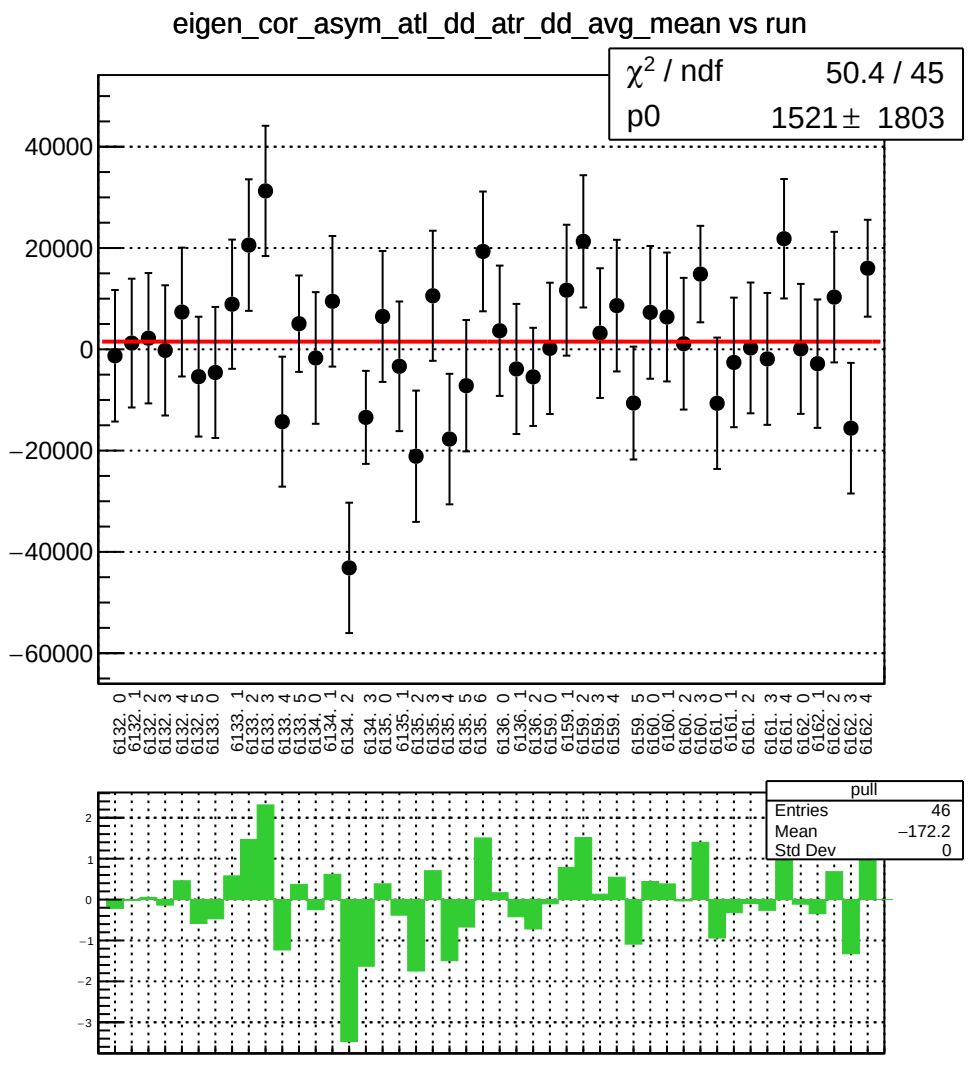
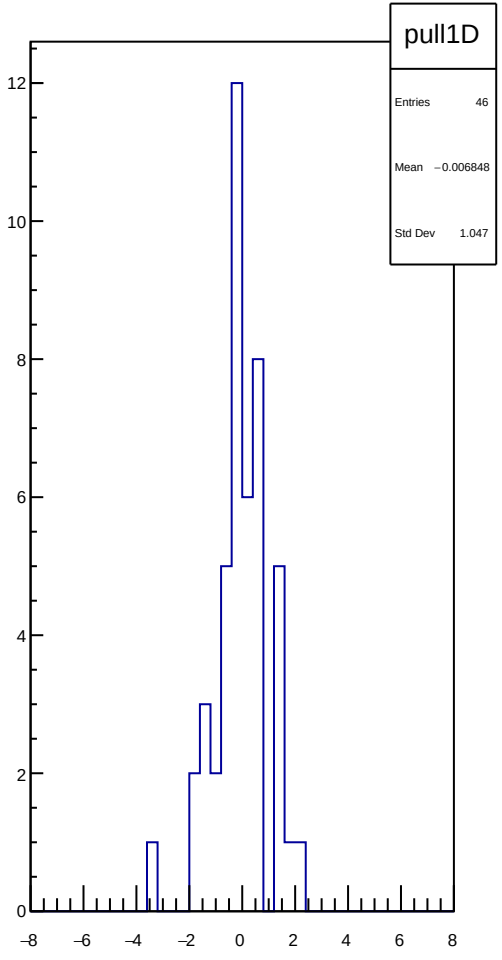
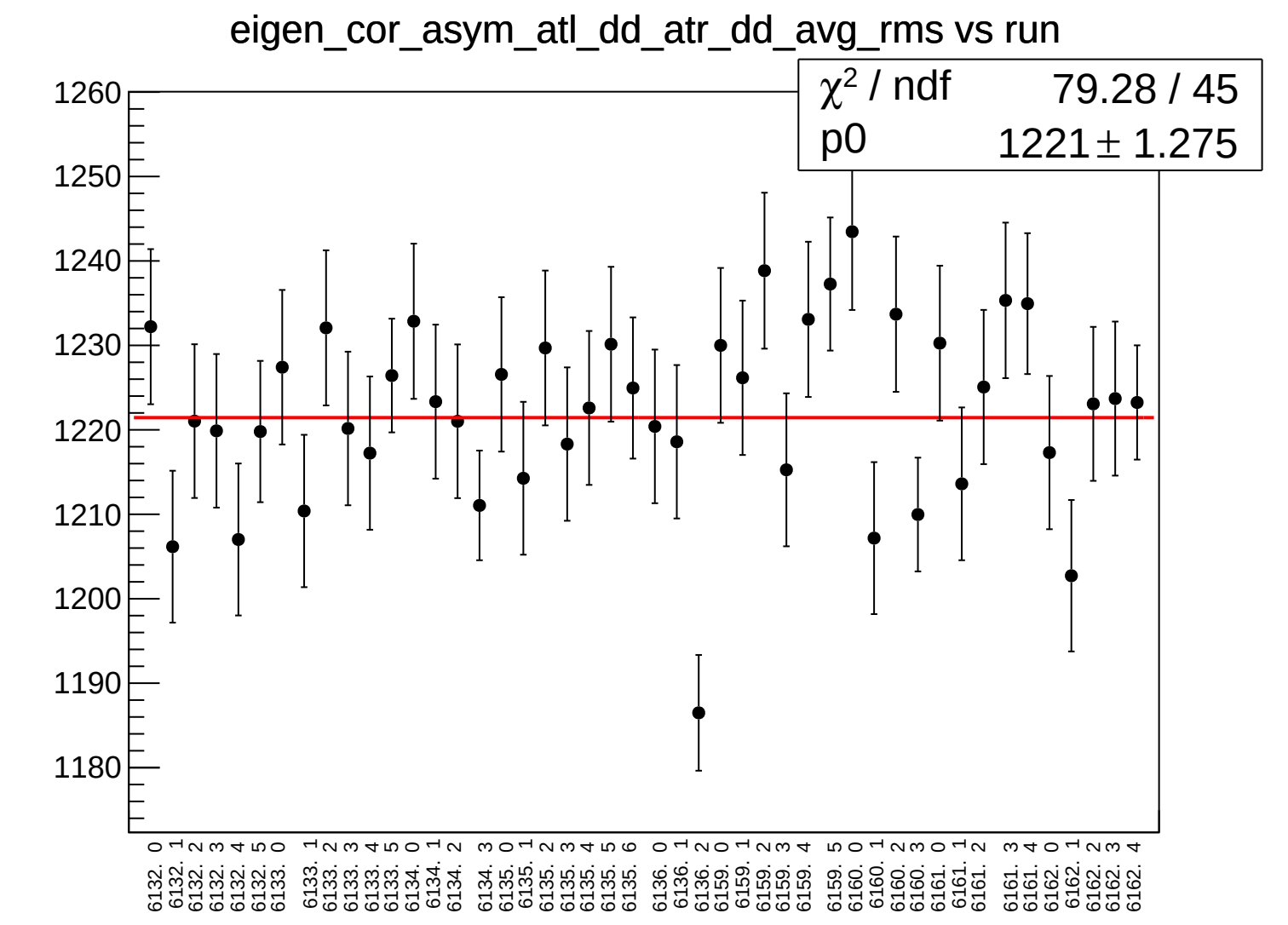
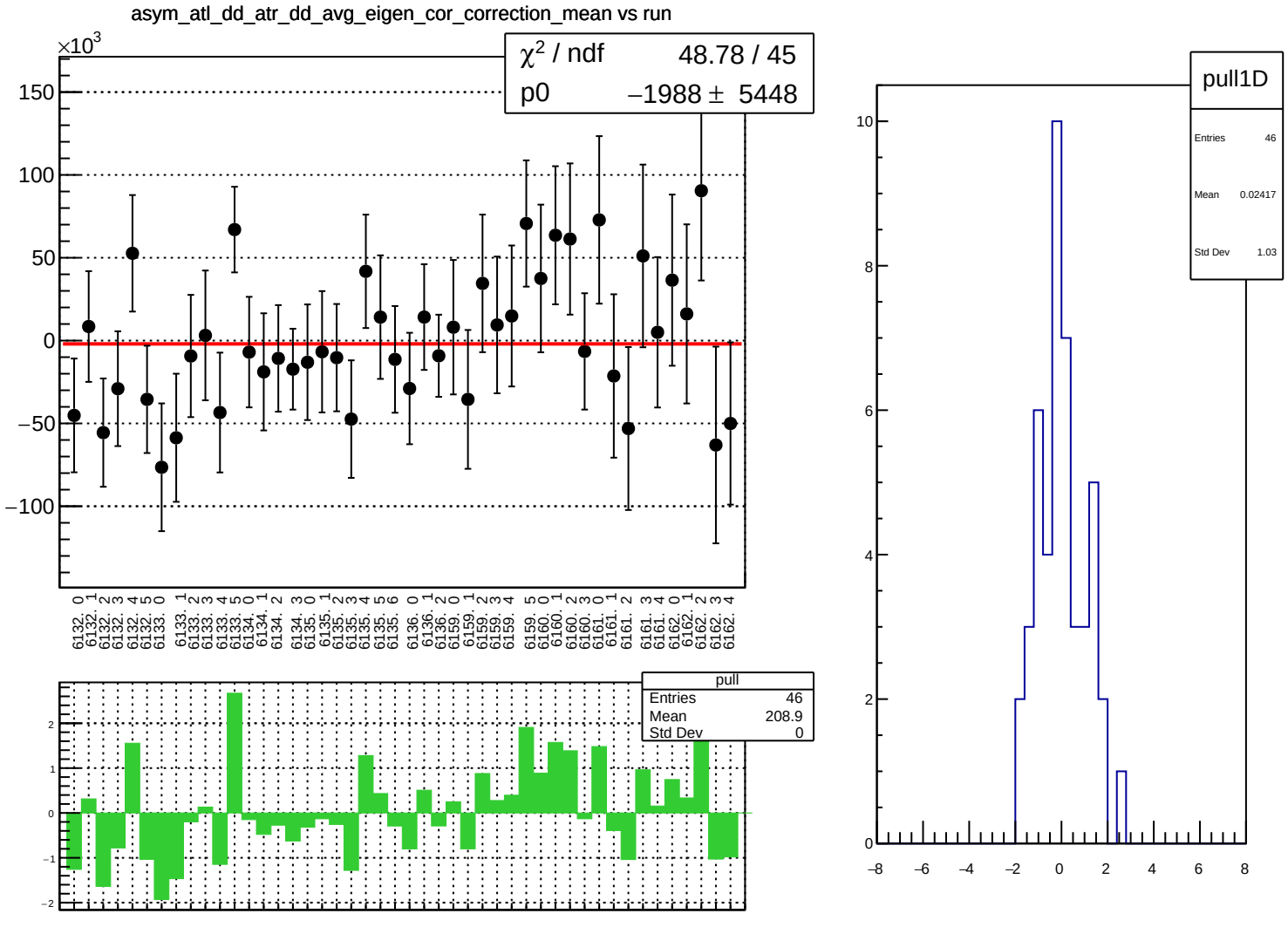
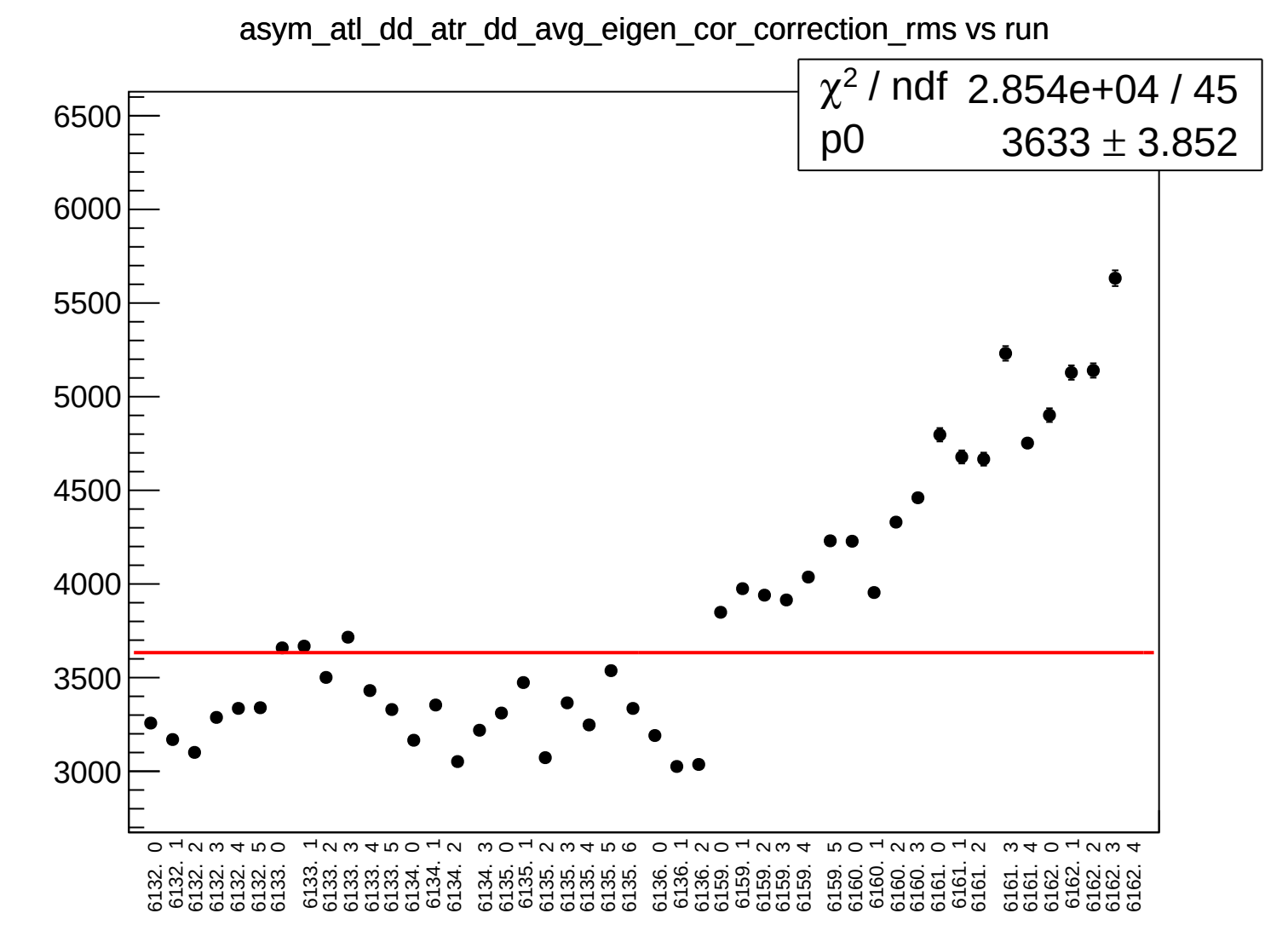
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

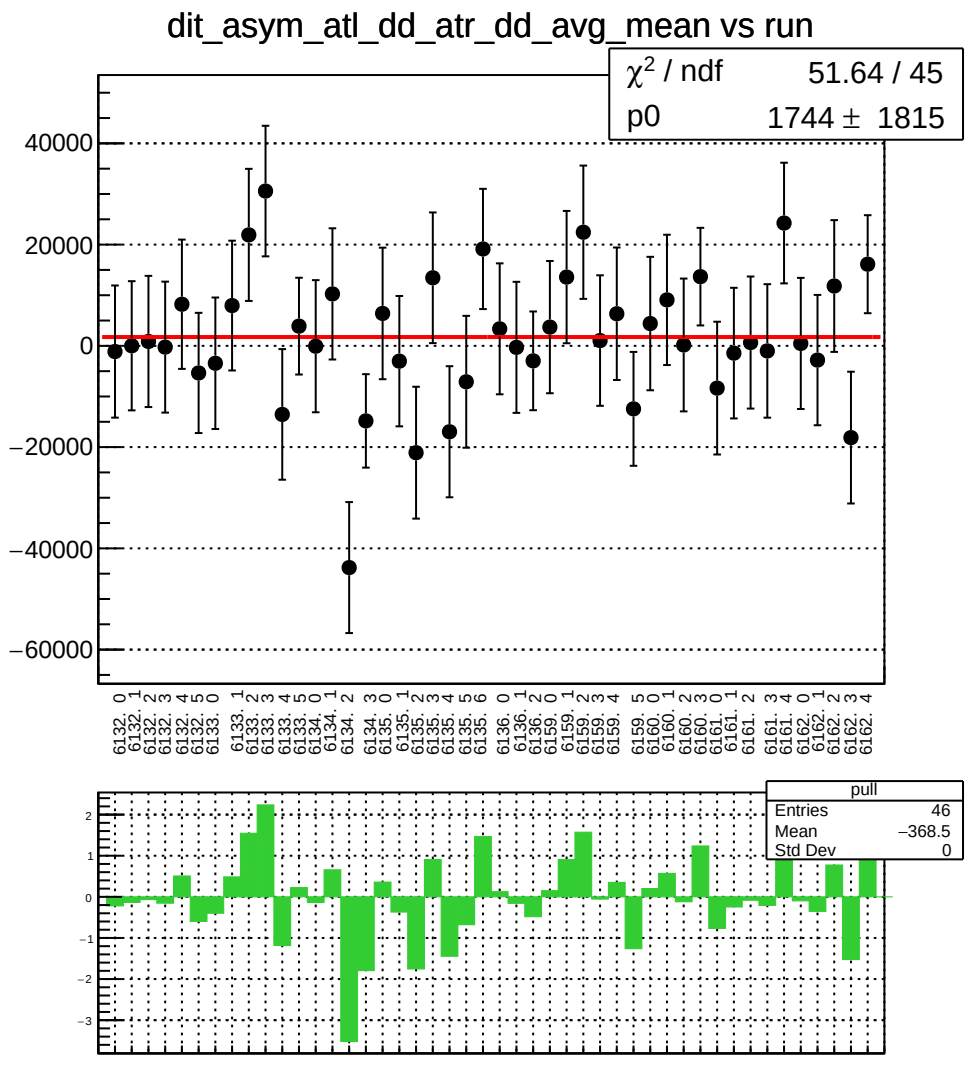

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 50.4 / 45
p0 1521 ± 1803
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −172.2
Std Dev 0
2
1
0
−1
−2
−3

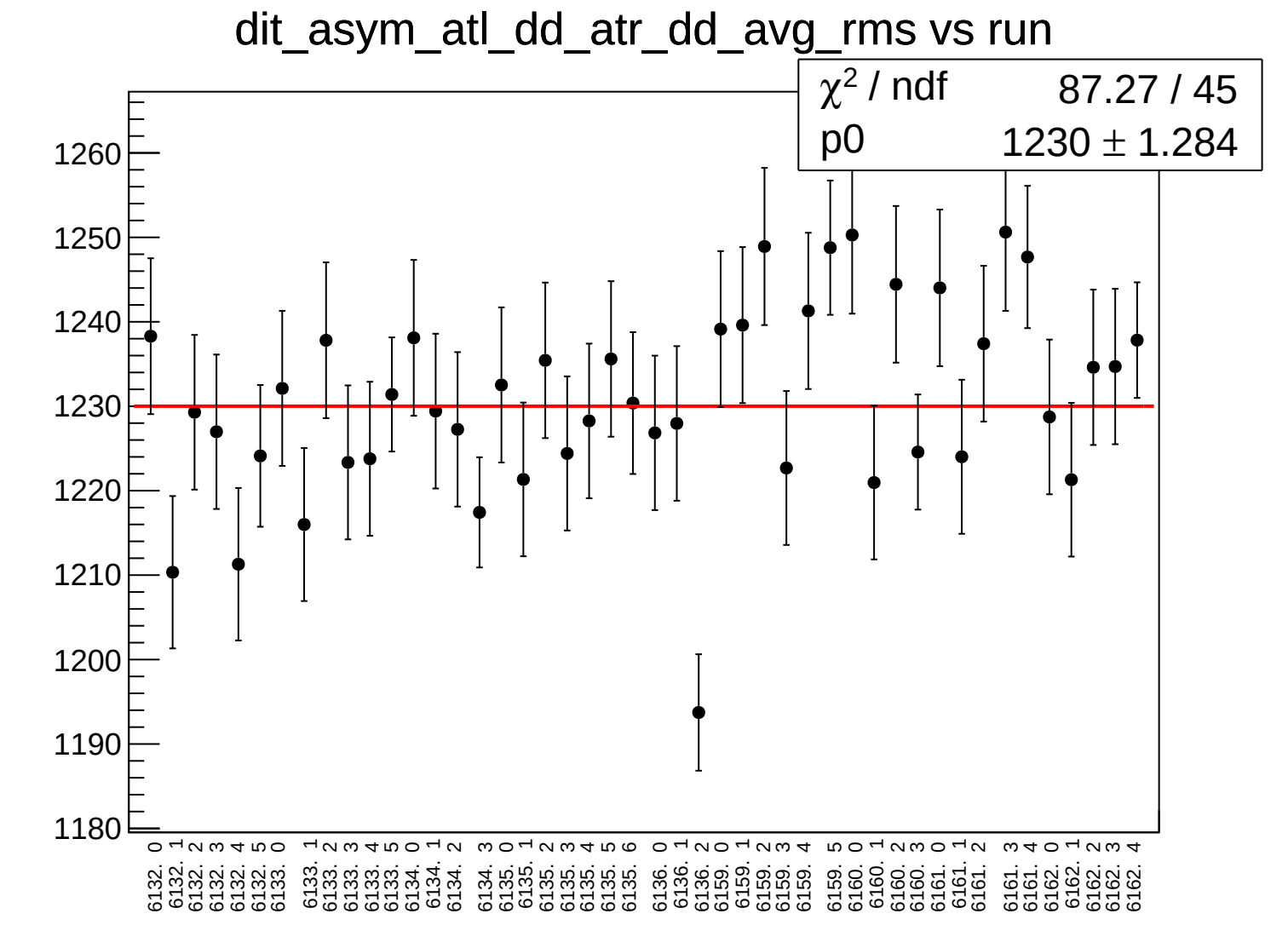

pull1D
Entries 46
Mean −0.006848
Std Dev 1.047
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

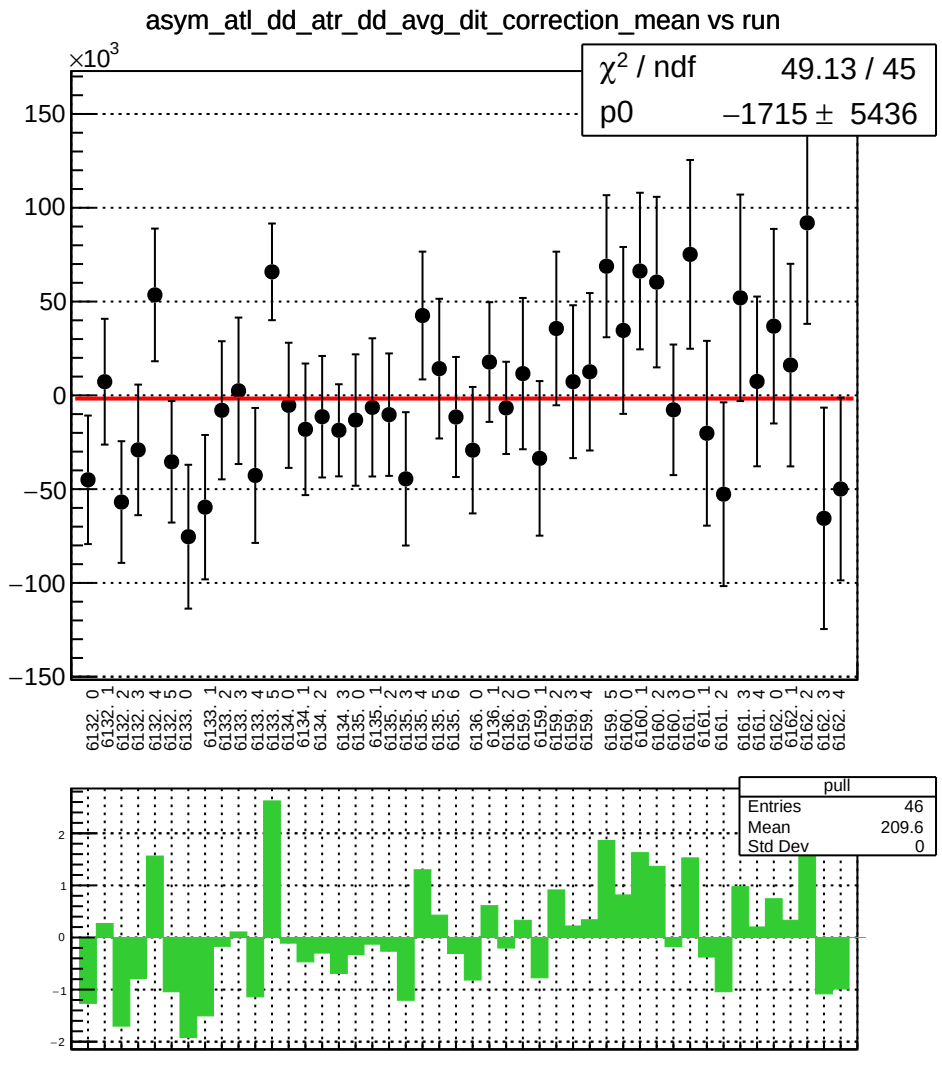

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 79.28 / 45
p0 1221 ± 1.275
1260
1250
1240
1230
1220
1210
1200
1190
1180
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

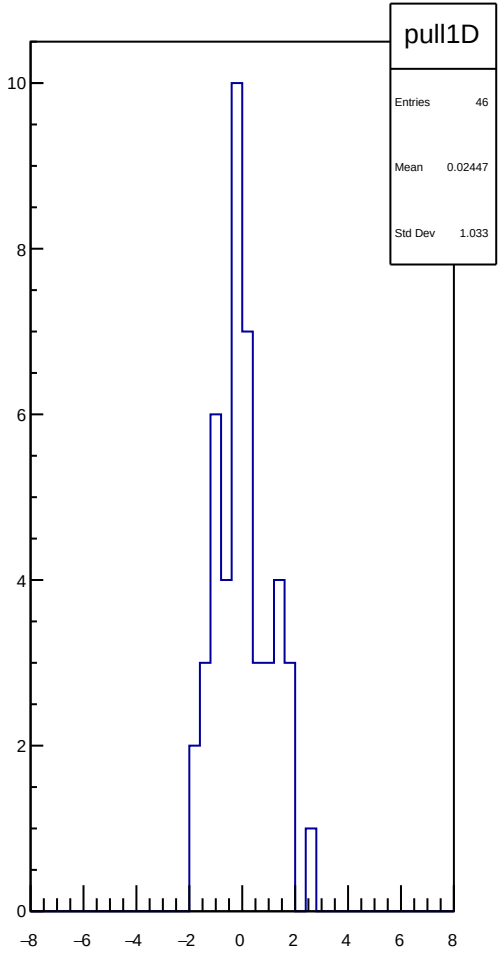

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 48.78 / 45
p0 −1988 ± 5448
150
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 208.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02417
Std Dev 1.03
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

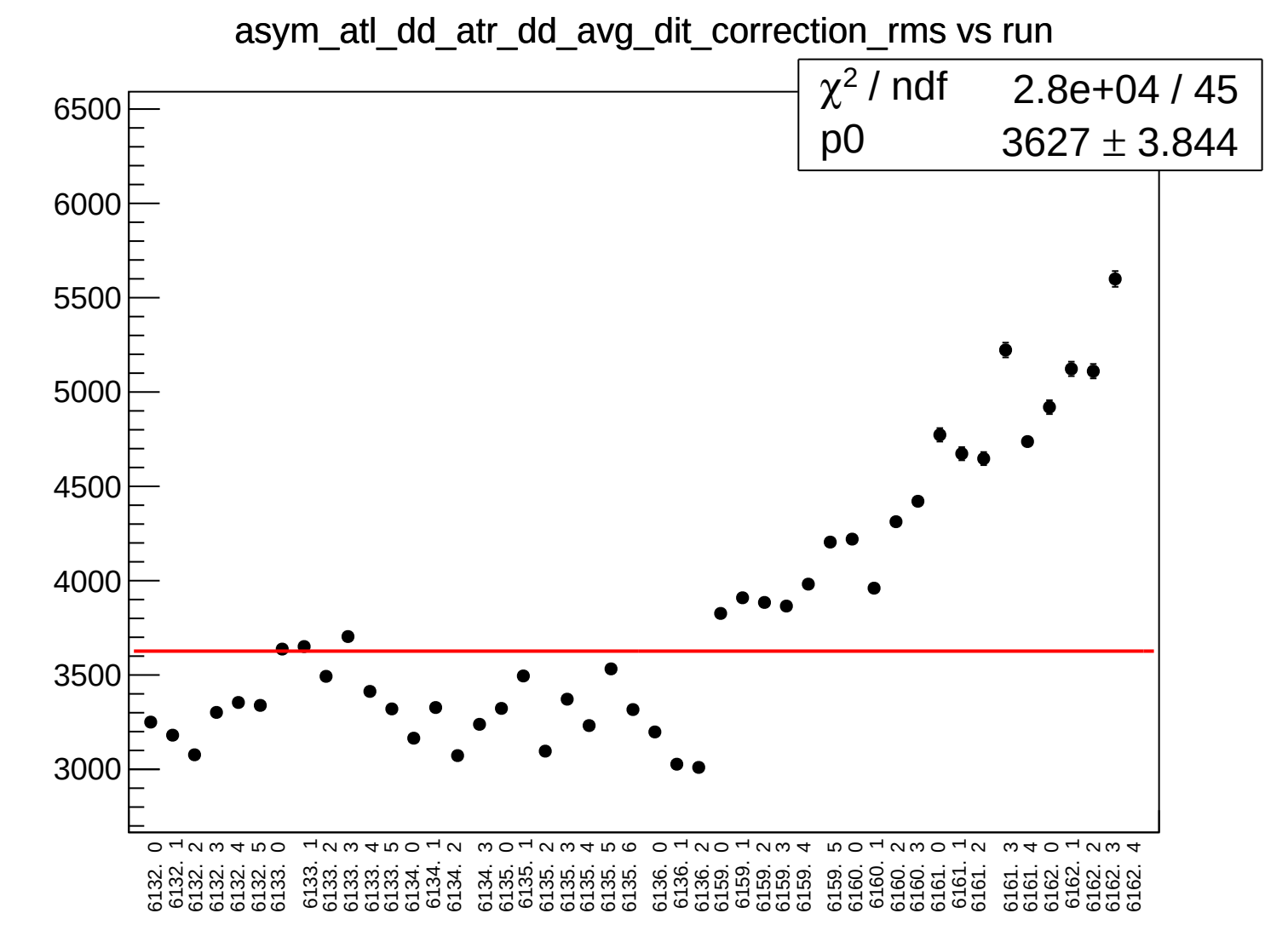

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.854e+04 / 45
p0 3633 ± 3.852
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

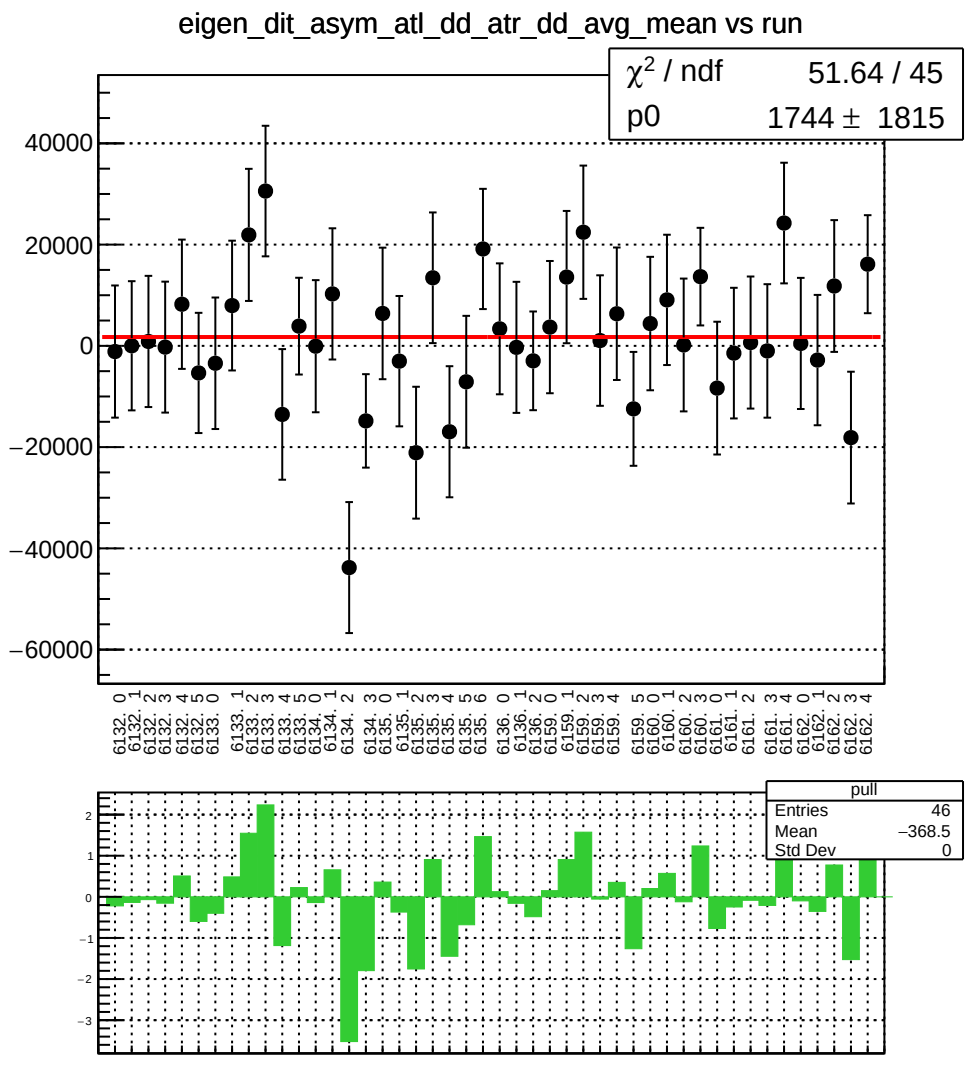

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 51.64 / 45
p0 1744 ± 1815
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −368.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.003693
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

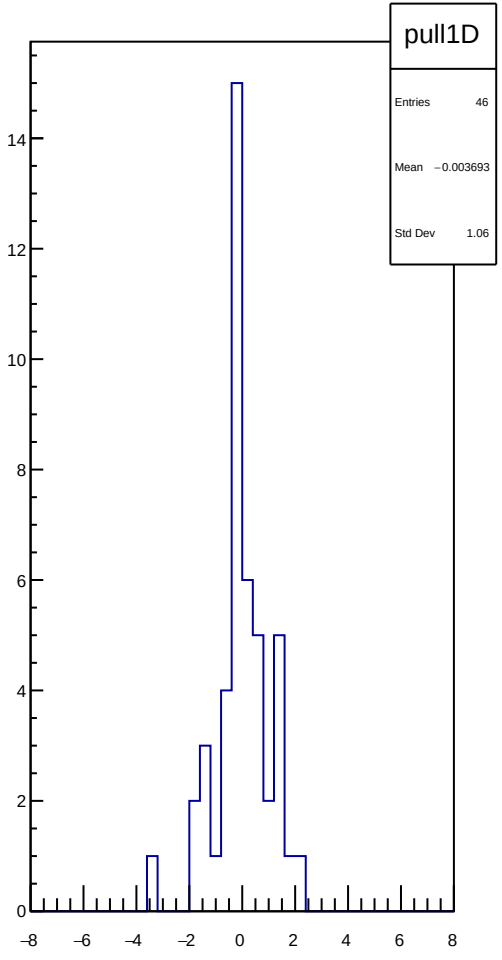

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 87.27 / 45
p0 1230 ± 1.284
1260
1250
1240
1230
1220
1210
1200
1190
1180
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

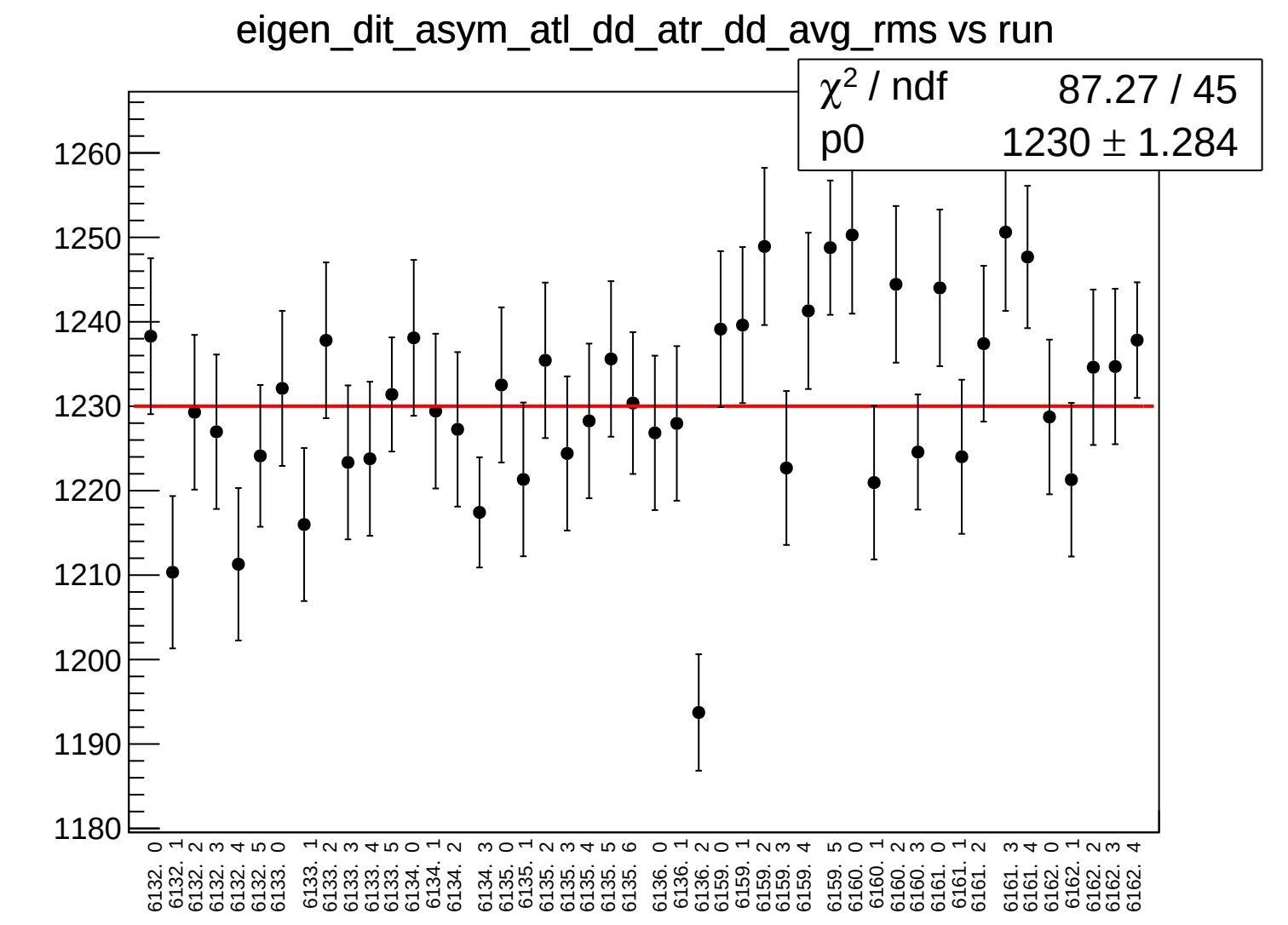

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 49.13 / 45
p0 −1715 ± 5436
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 209.6
Std Dev 0
2
1
0
−1
−2

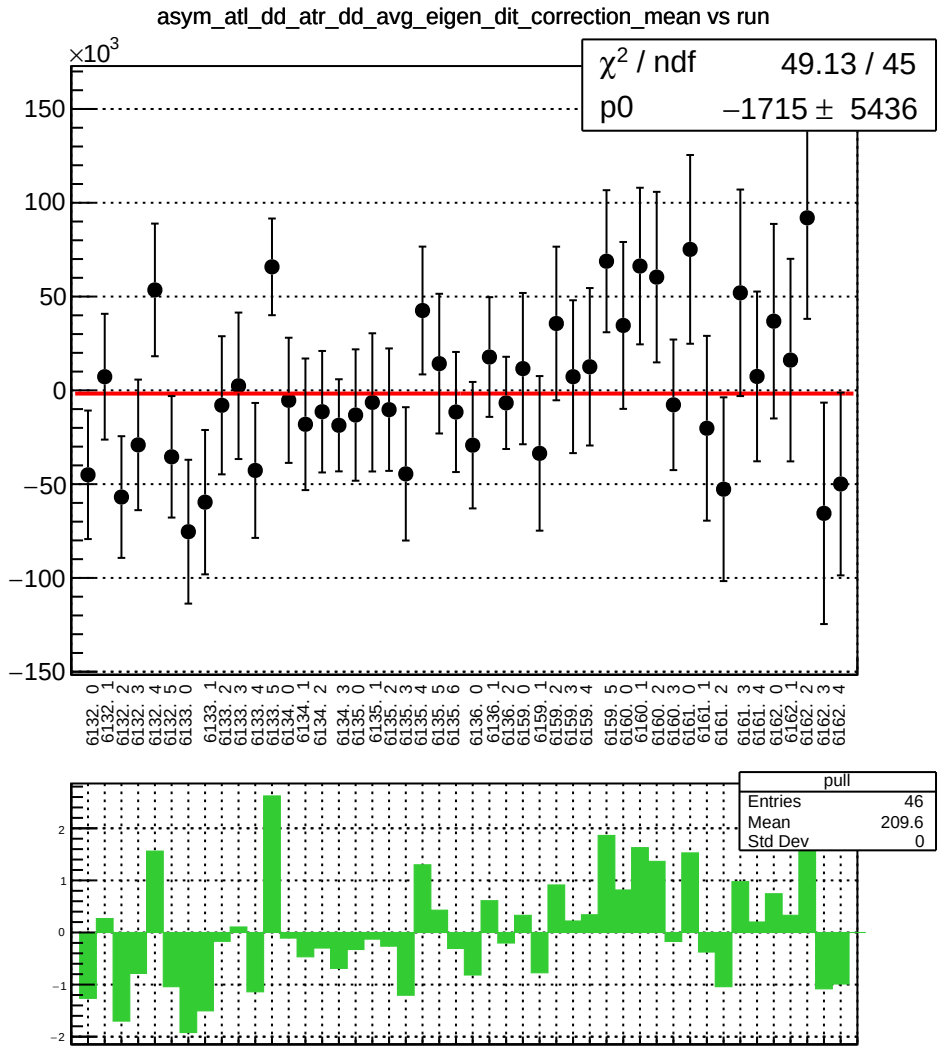

pull1D
Entries 46
Mean 0.02447
Std Dev 1.033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

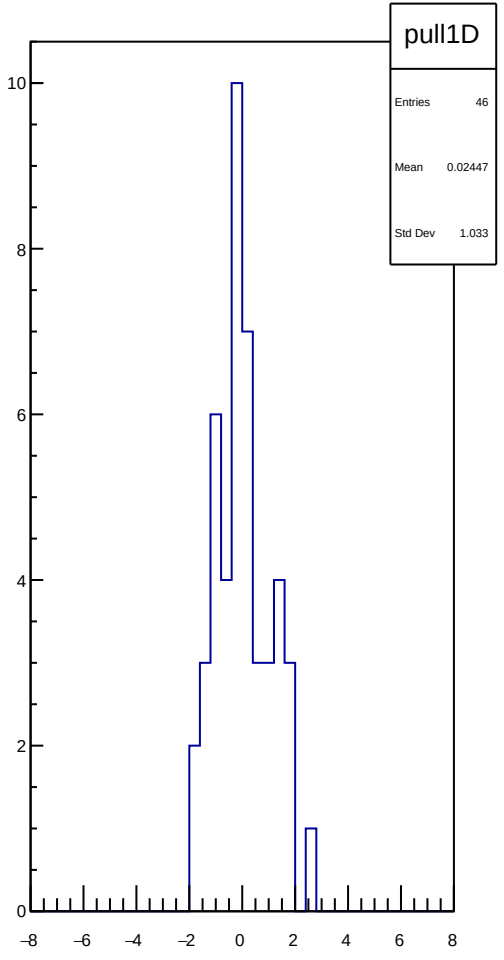

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 2.8e+04 / 45
p0 3627 ± 3.844
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

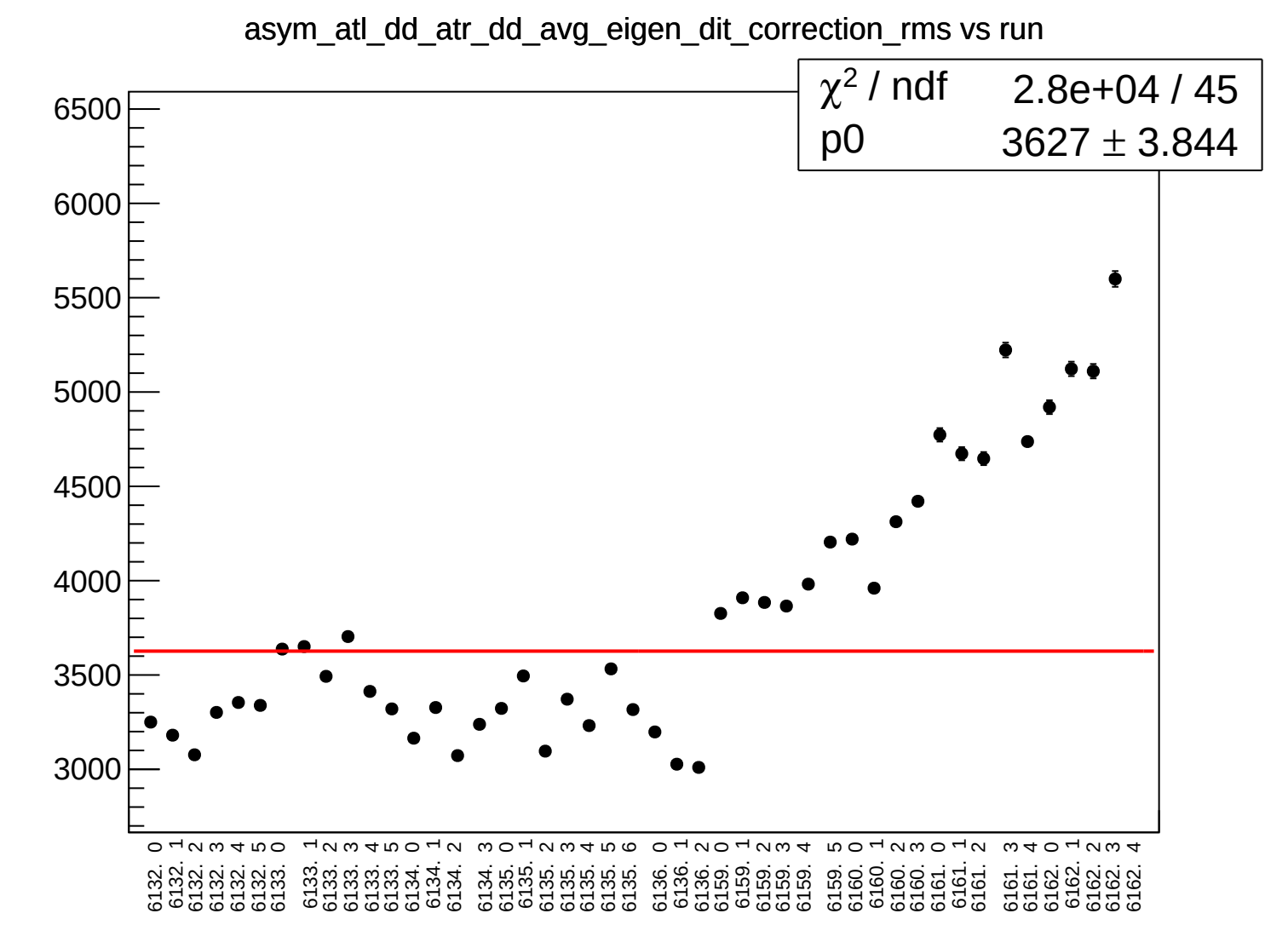

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 51.64 / 45
p0 1744 ± 1815
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −368.5
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean −0.003693
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 87.27 / 45
p0 1230 ± 1.284
1260
1250
1240
1230
1220
1210
1200
1190
1180
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 49.13 / 45
p0 −1715 ± 5436
pull
Entries 46
Mean 209.6
Std Dev 0


pull1D
Entries 46
Mean 0.02447
Std Dev 1.033


asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.8e+04 / 45
p0 3627 ± 3.844
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6135. 3
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6136. 0
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6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
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6160. 0
6160. 1
6160. 2
6160. 3
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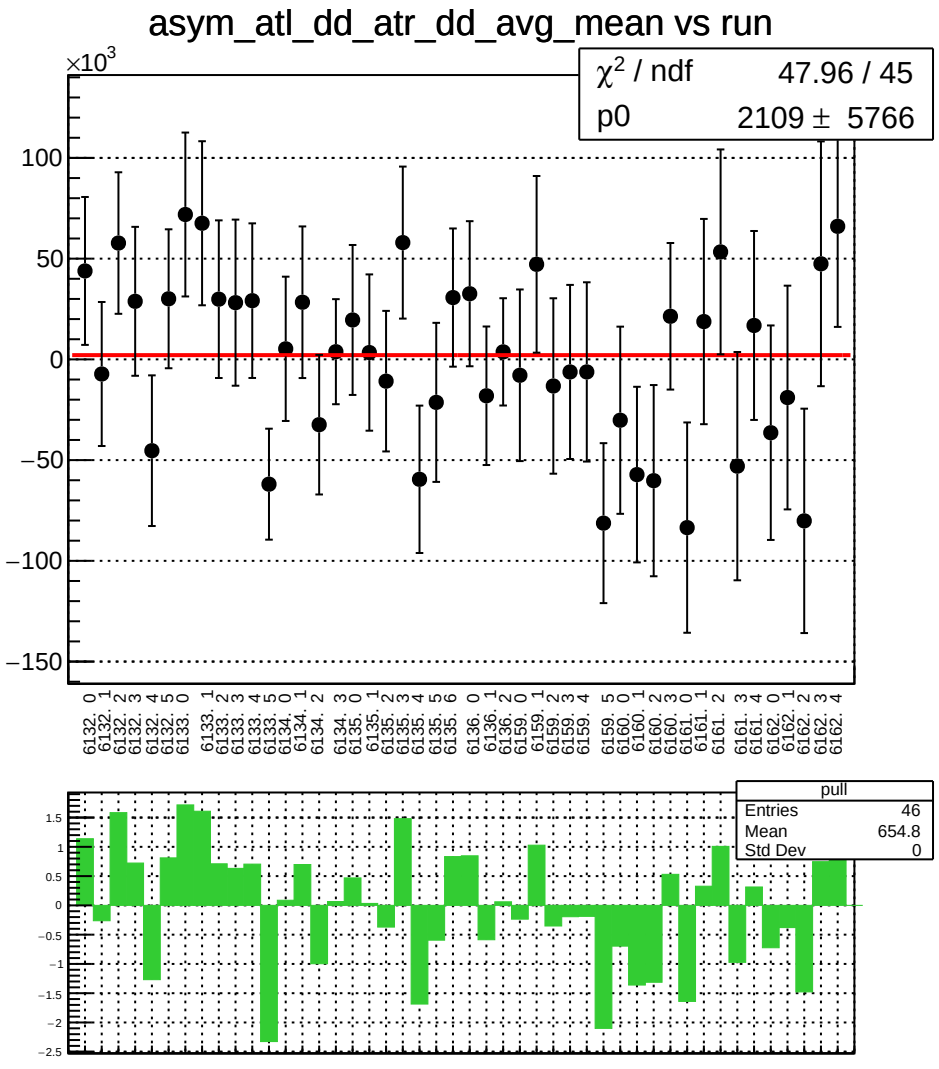
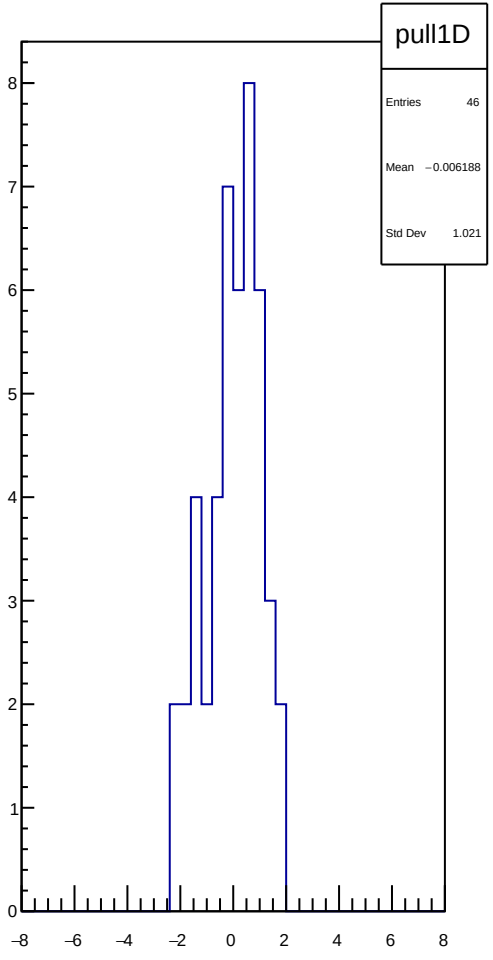
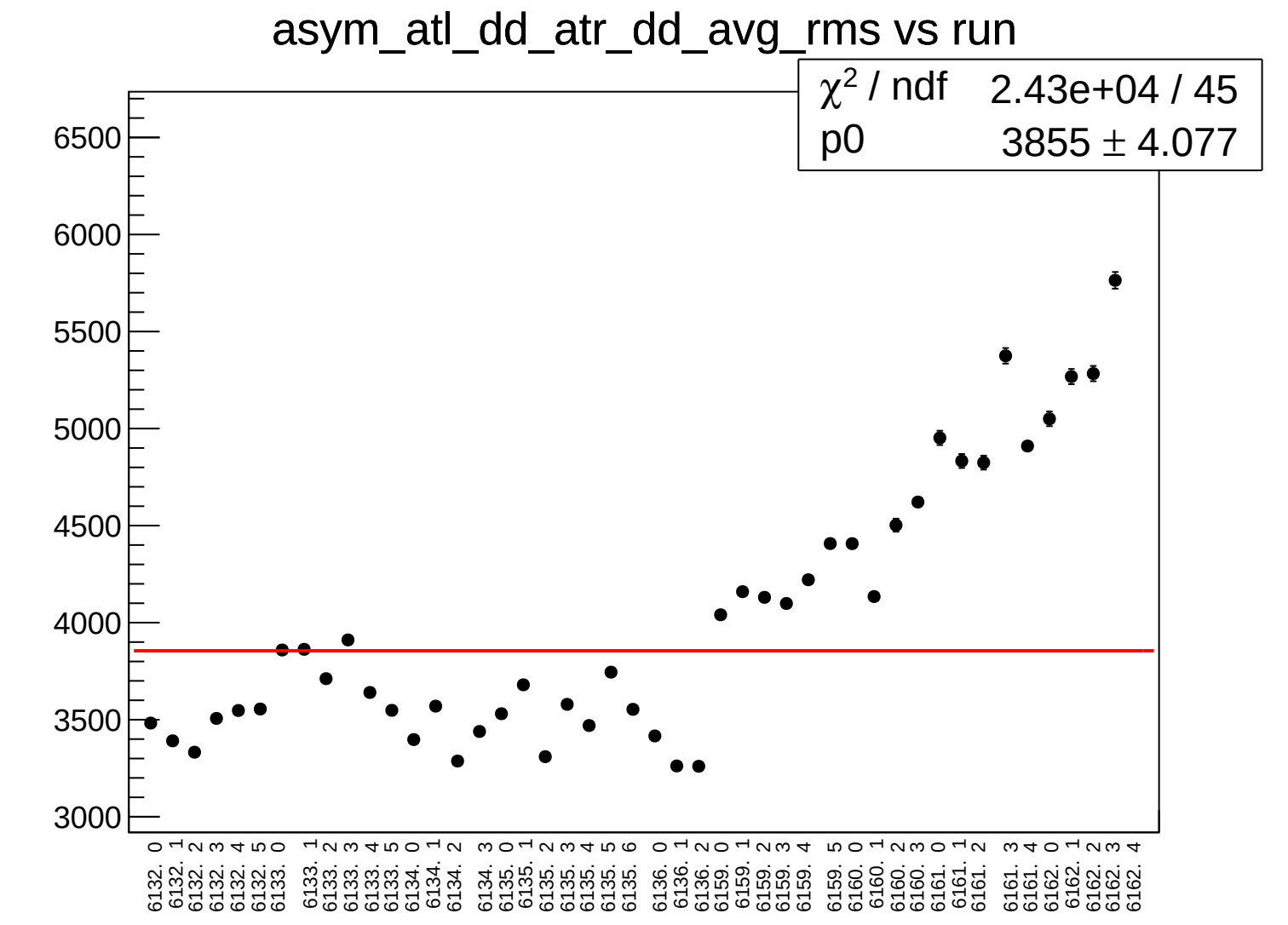
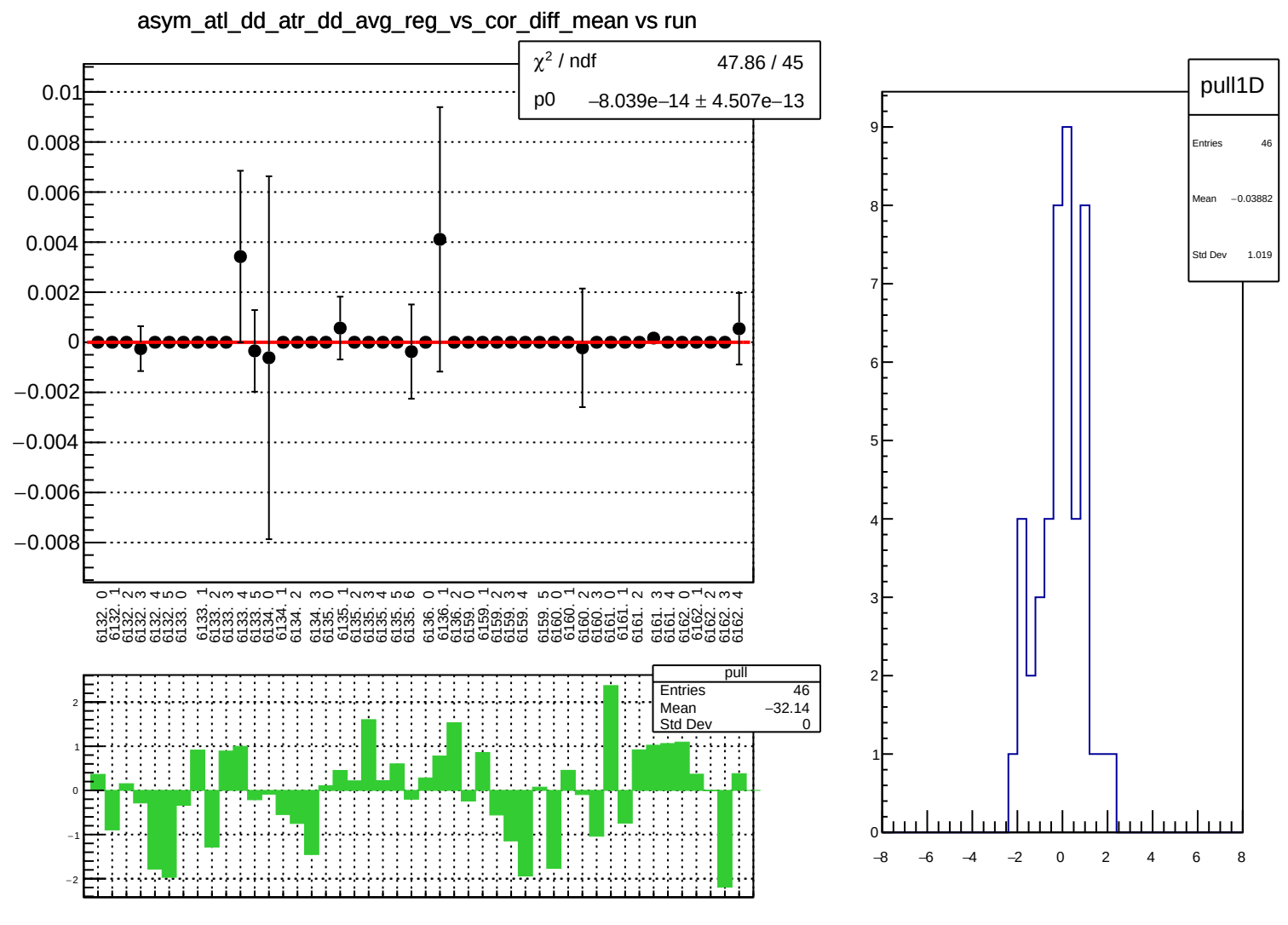
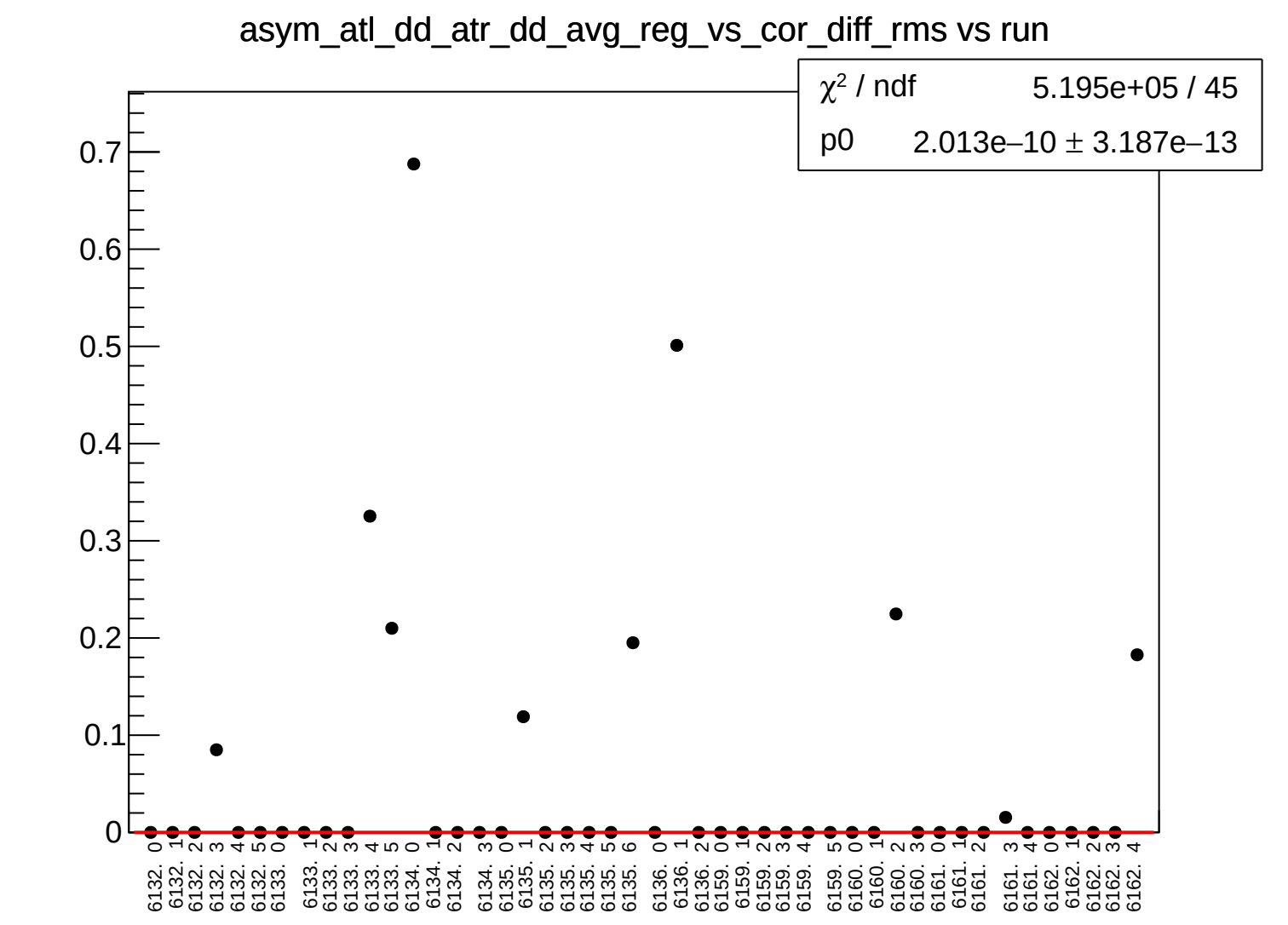
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

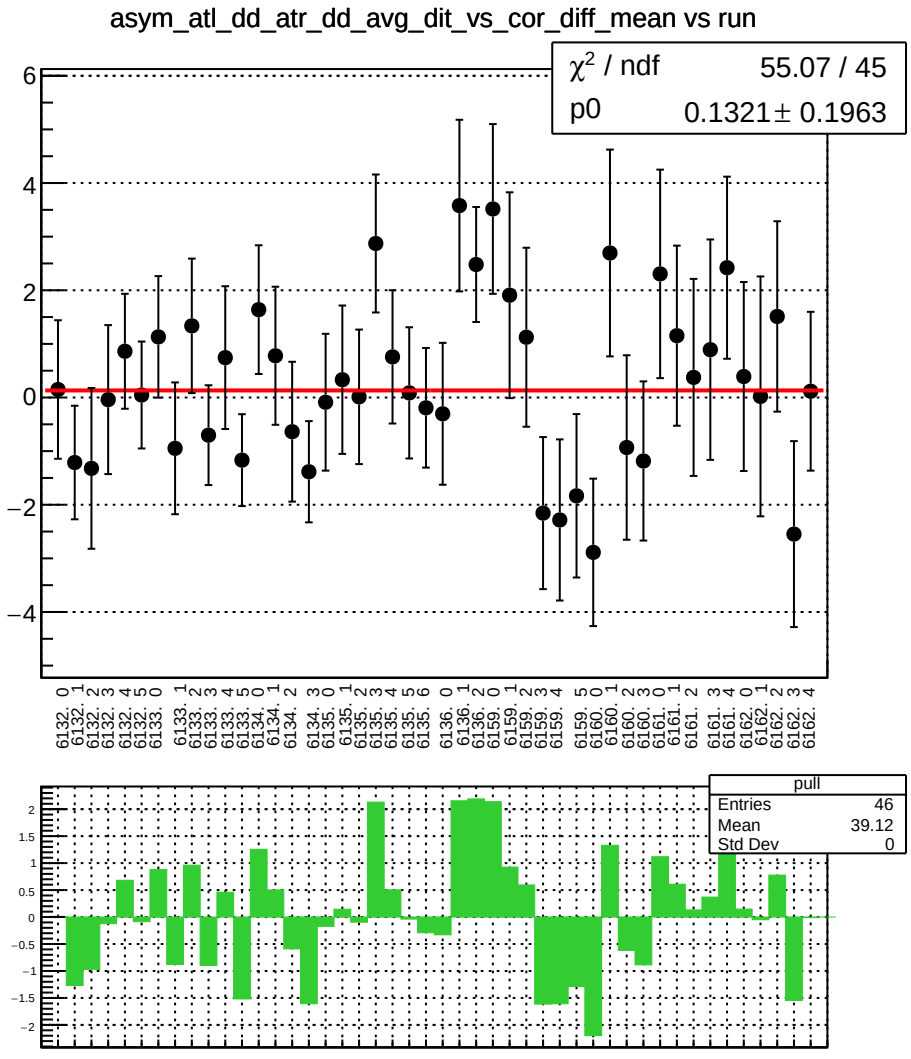

asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 47.96 / 45
p0 2109 ± 5766
×10³
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 654.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

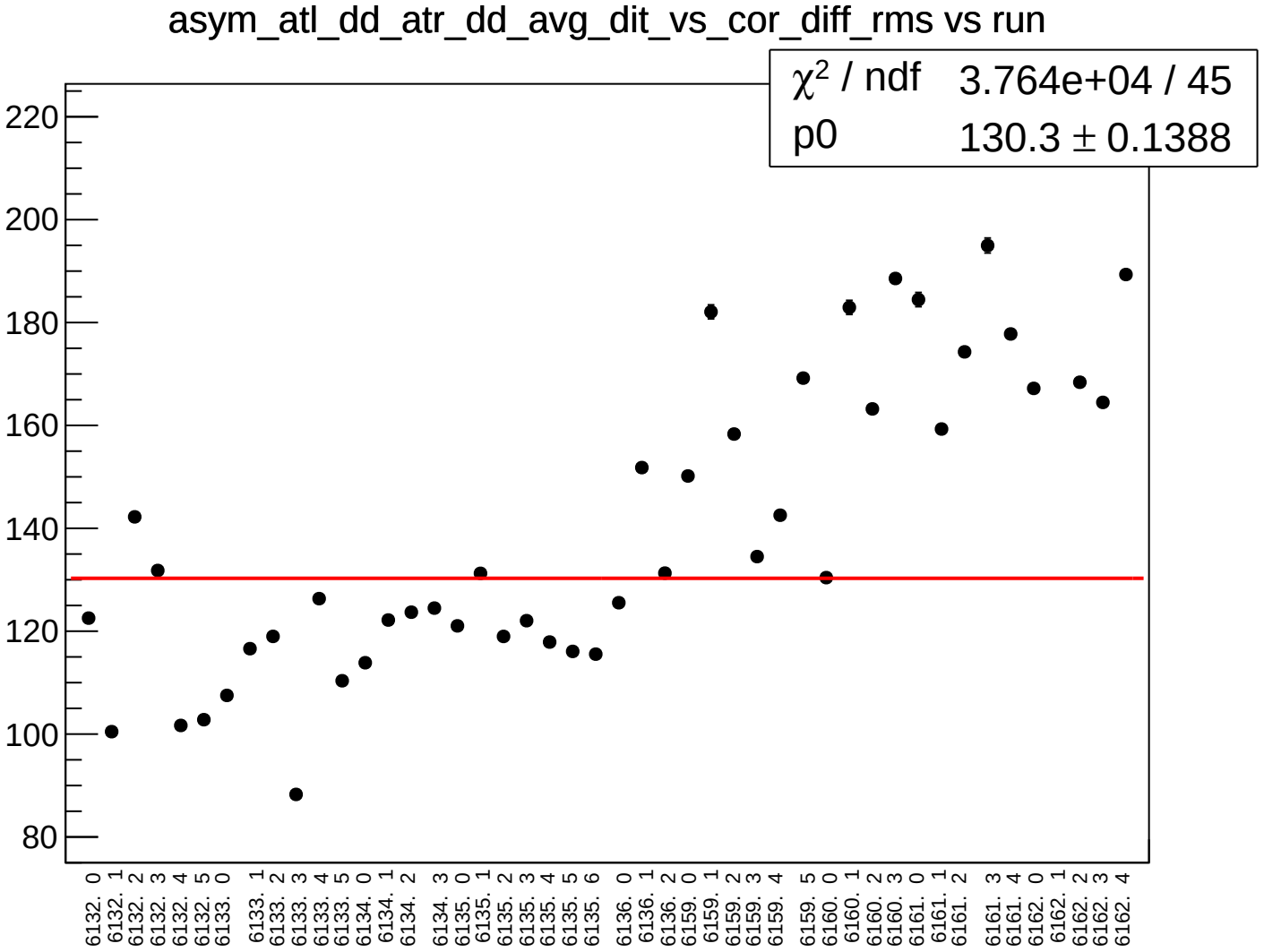

pull1D
Entries 46
Mean −0.006188
Std Dev 1.021
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

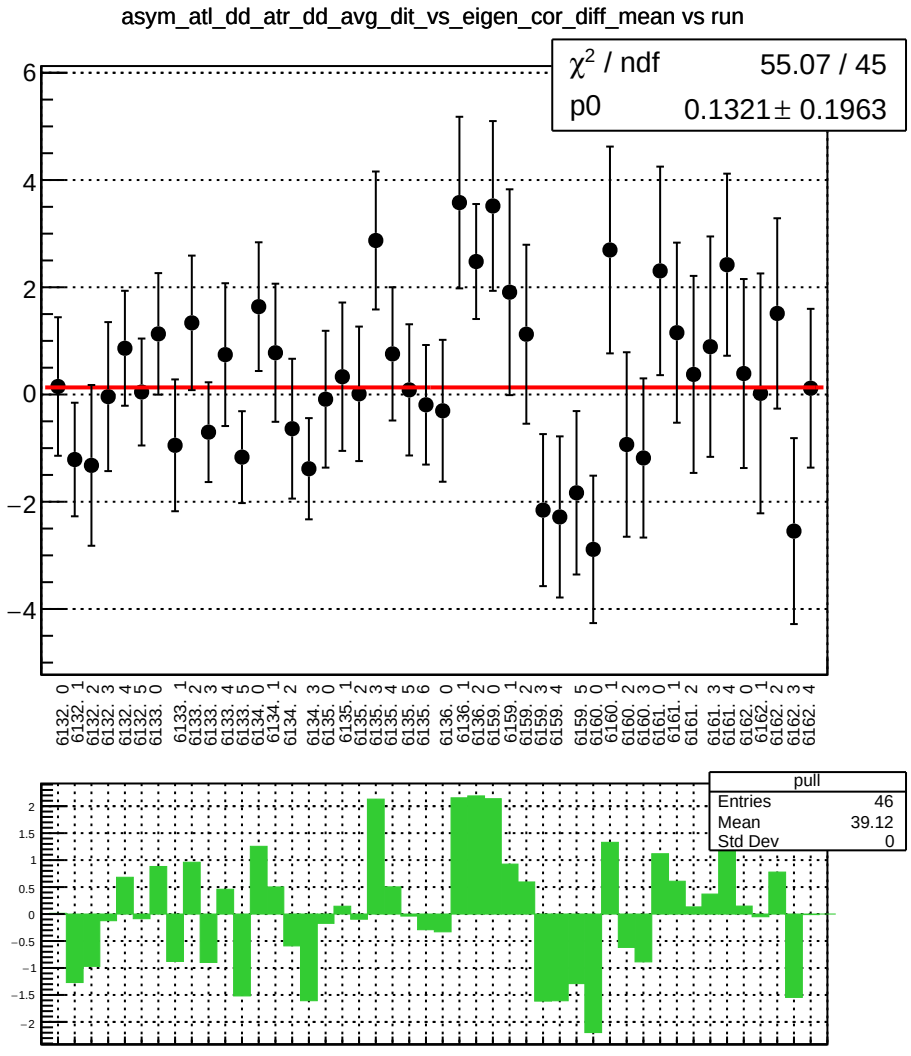

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2.43e+04 / 45
p0 3855 ± 4.077
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

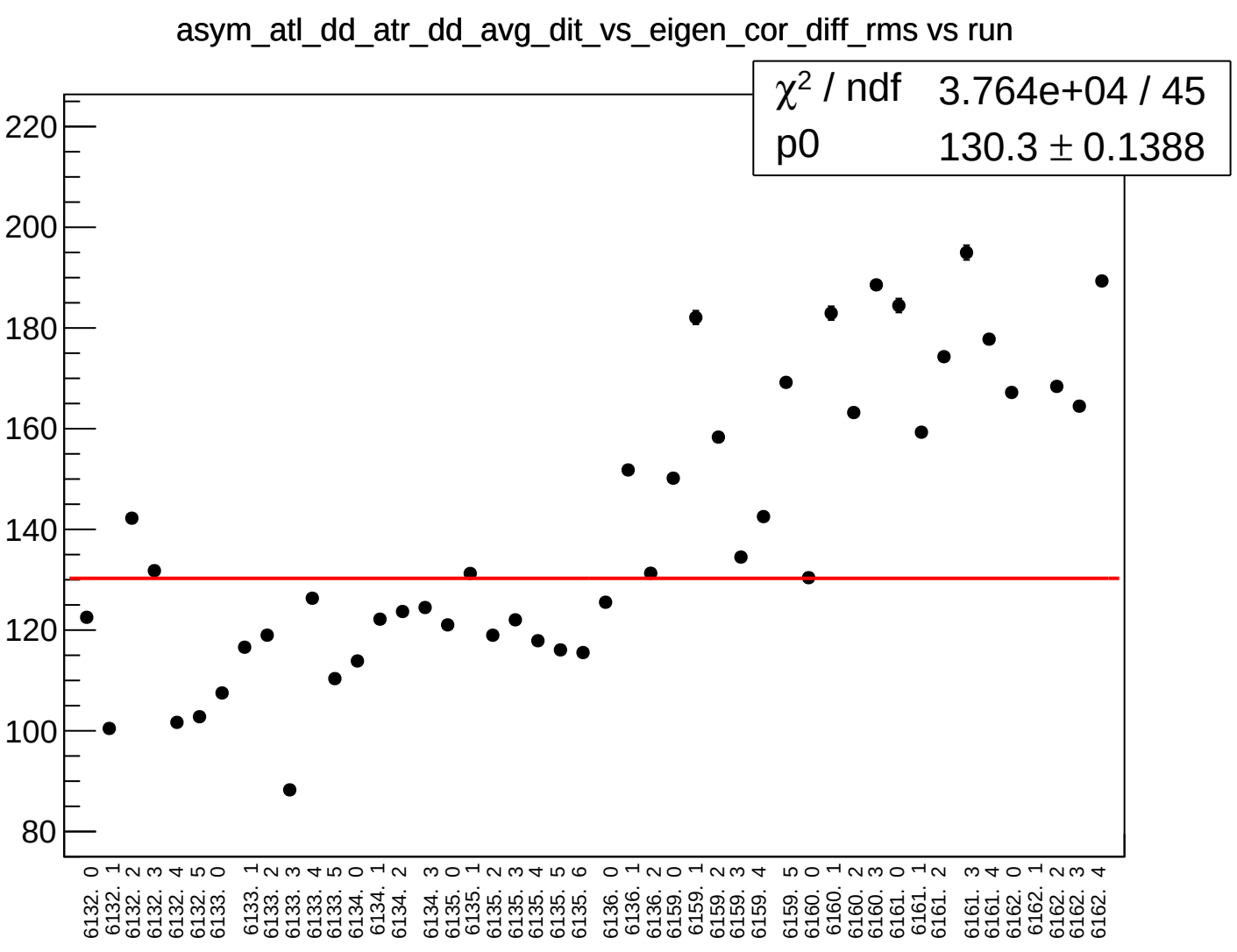

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 47.86 / 45
p0 −8.039e−14 ± 4.507e−13
pull
Entries 46
Mean −32.14
Std Dev 0
pull1D
Entries 46
Mean −0.03882
Std Dev 1.019

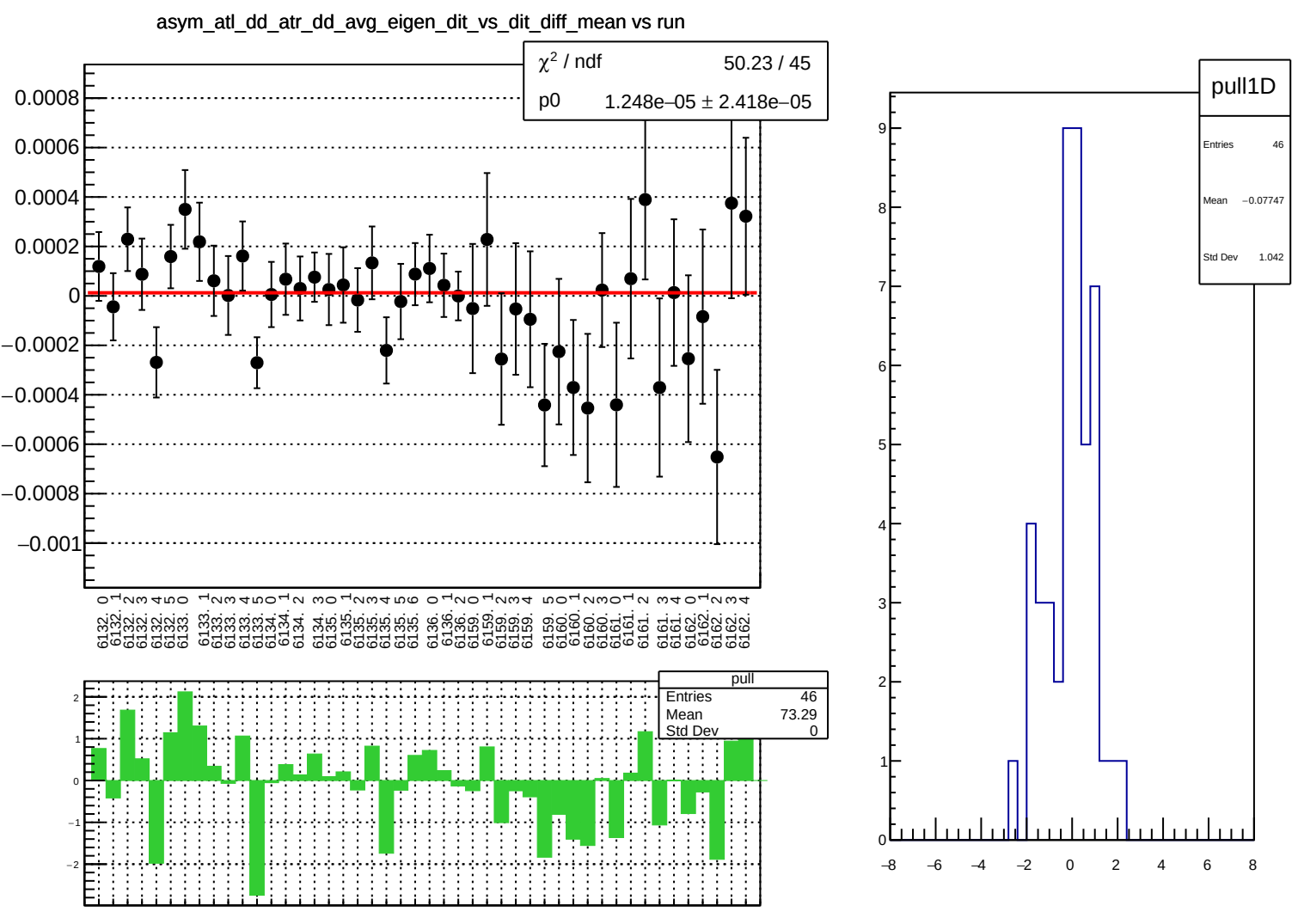

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.195e+05 / 45
p0 2.013e−10 ± 3.187e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

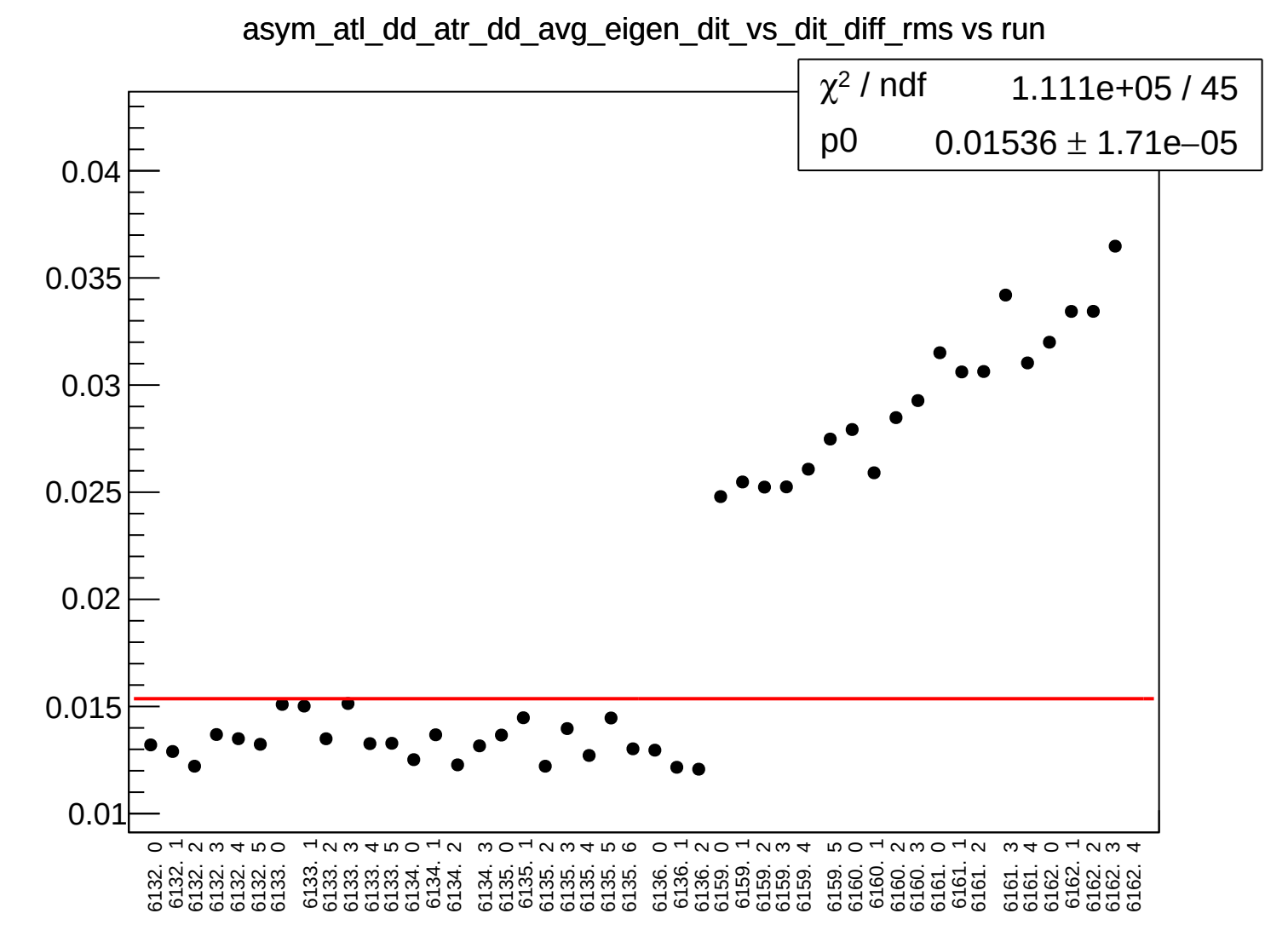

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 55.07 / 45
p0 0.1321 ± 0.1963
pull
Entries 46
Mean 39.12
Std Dev 0
pull1D
Entries 46
Mean 0.05829
Std Dev 1.093

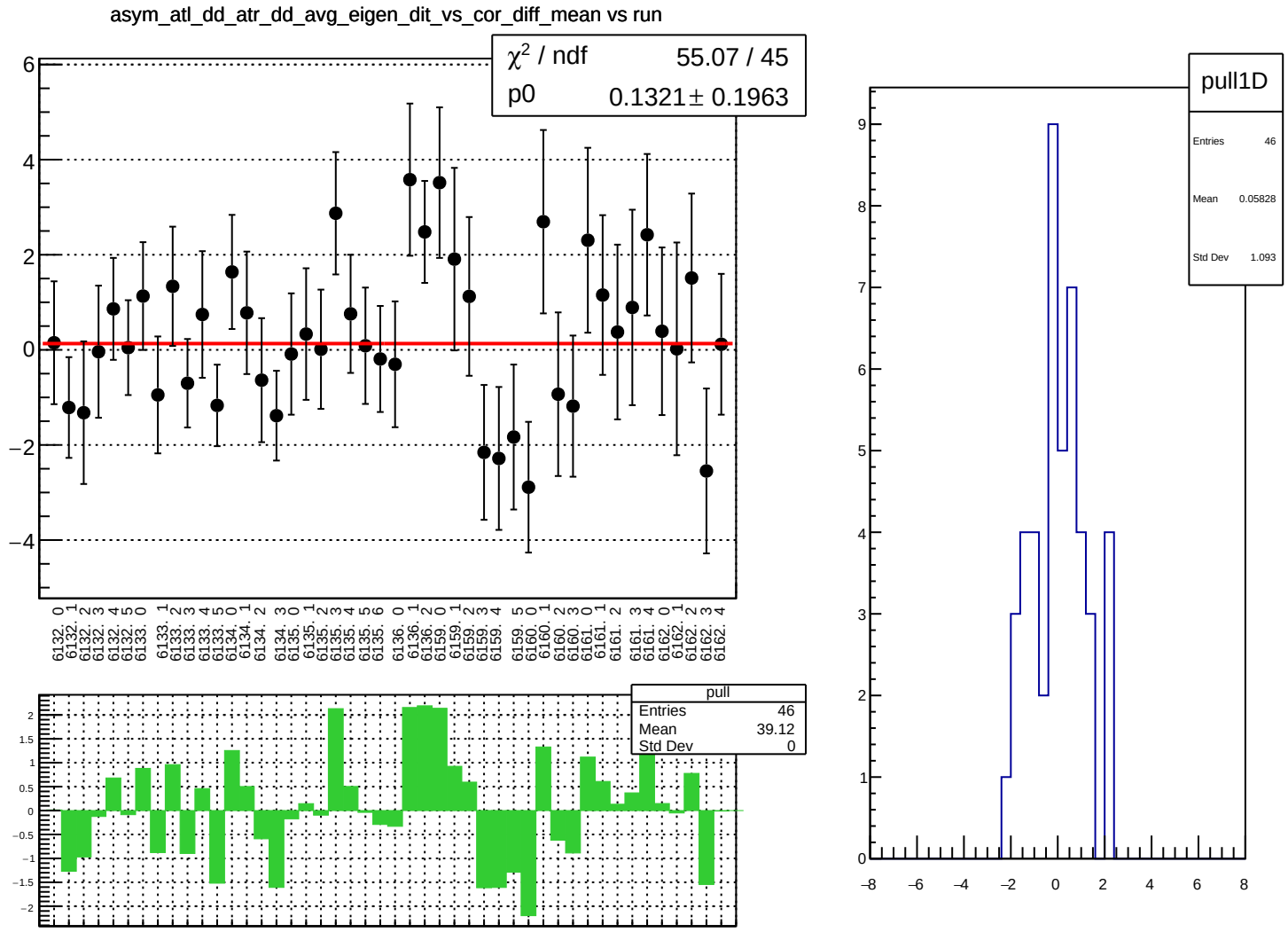

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.764e+04 / 45
p0 130.3 ± 0.1388
220
200
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

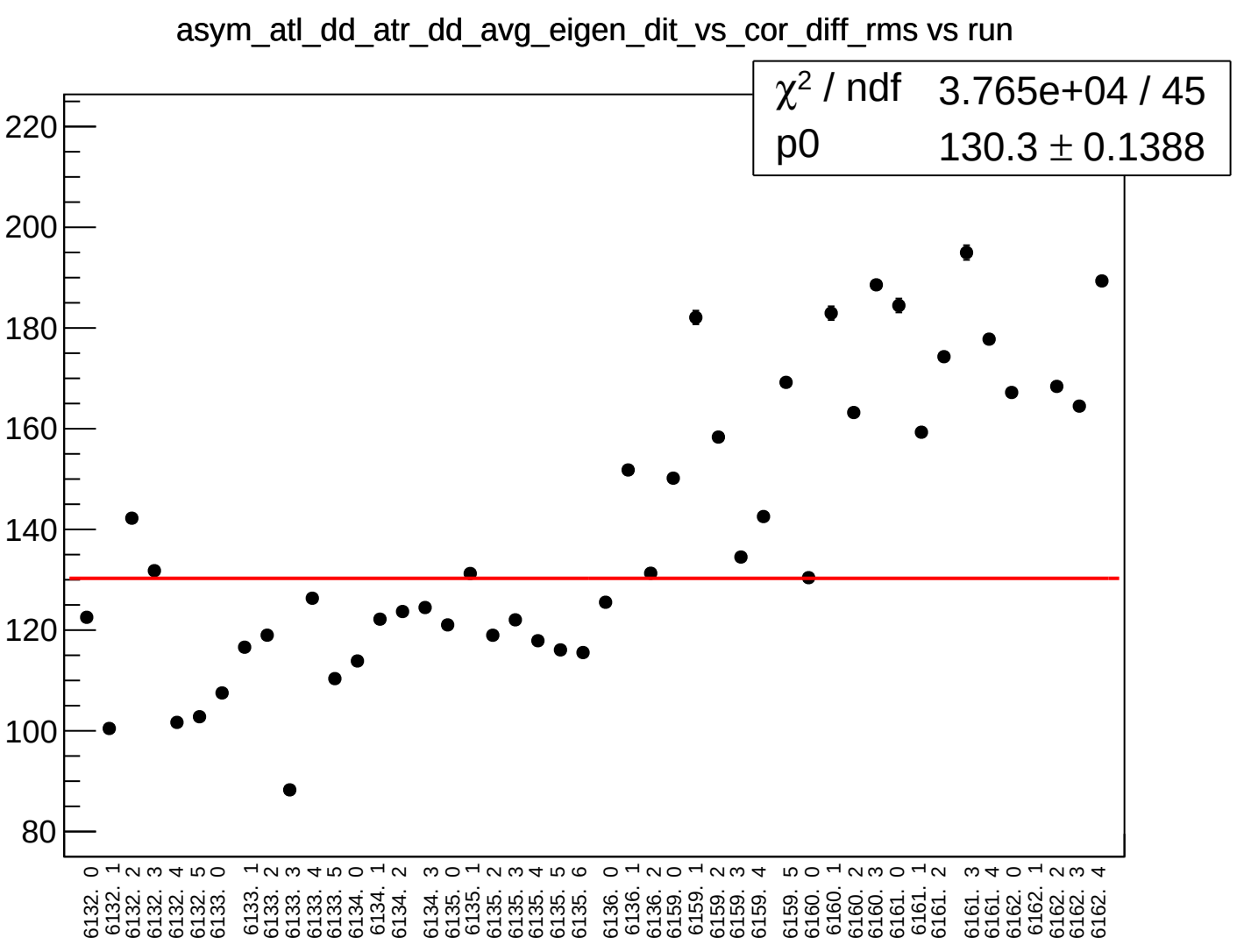

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 55.07 / 45
p0 0.1321 ± 0.1963
pull
Entries 46
Mean 39.12
Std Dev 0
pull1D
Entries 46
Mean 0.05829
Std Dev 1.093

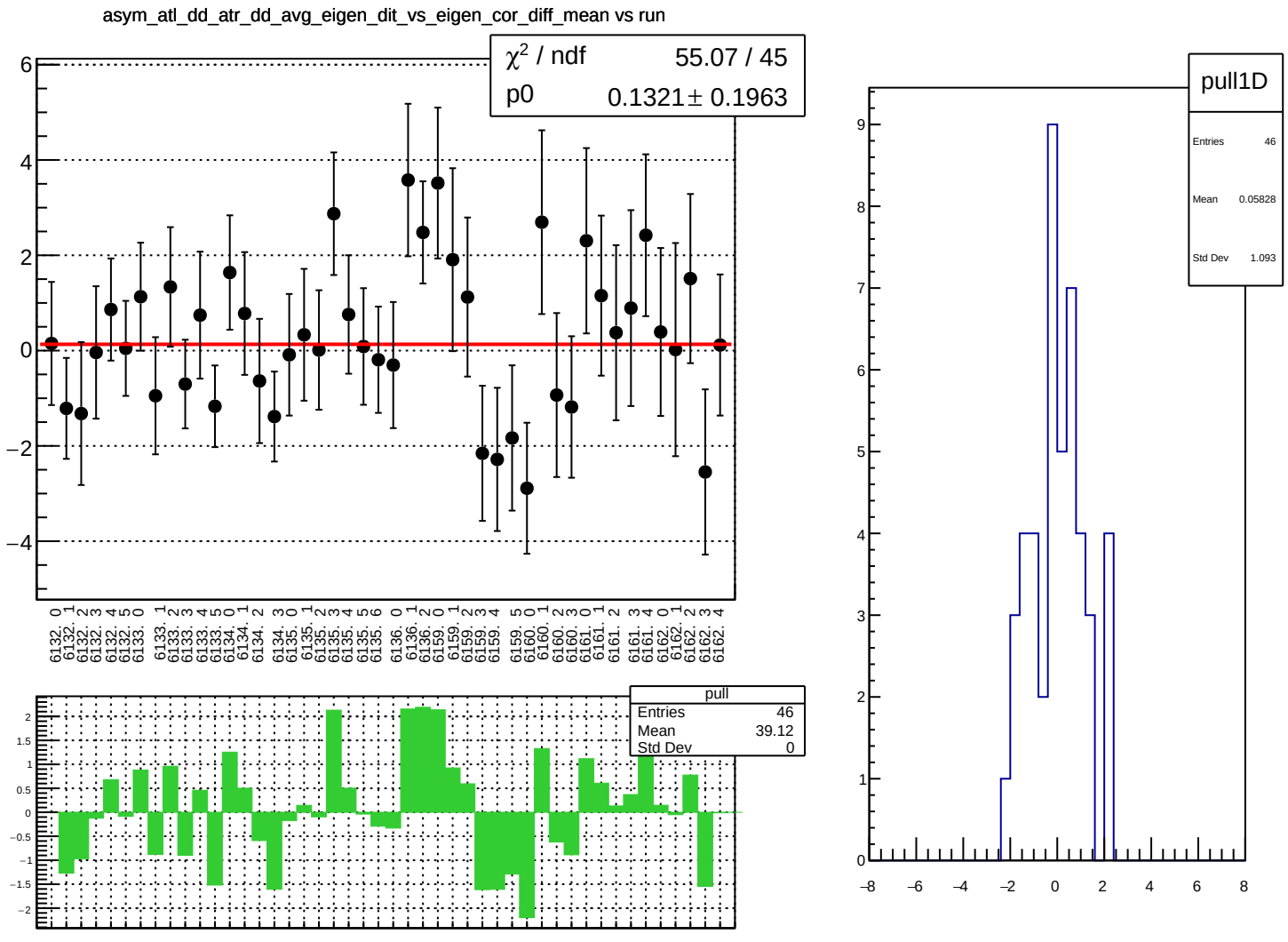

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.764e+04 / 45
p0 130.3 ± 0.1388
220
200
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

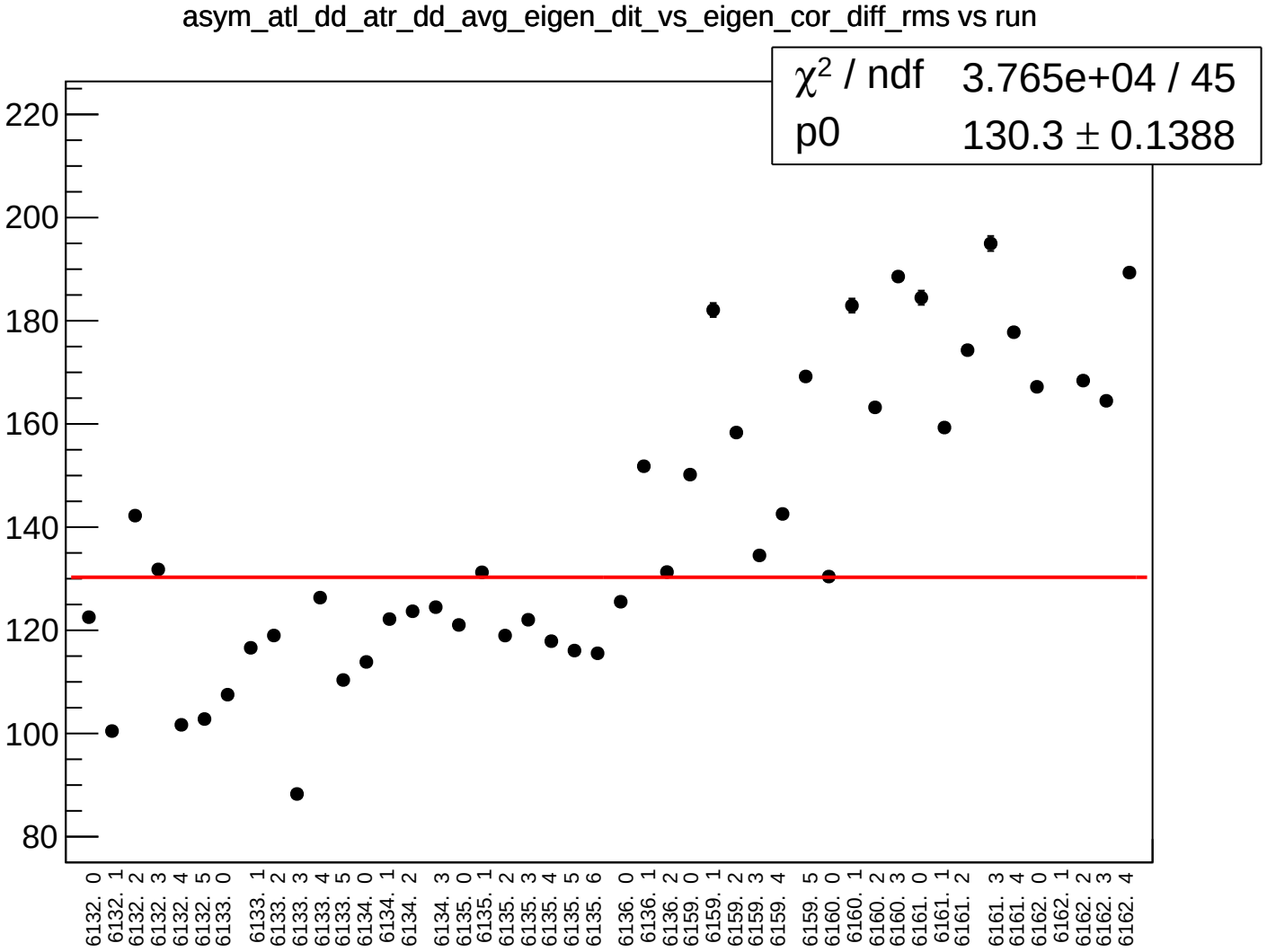

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 50.23 / 45
p0 1.248e−05 ± 2.418e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 73.29
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.07747
Std Dev 1.042
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

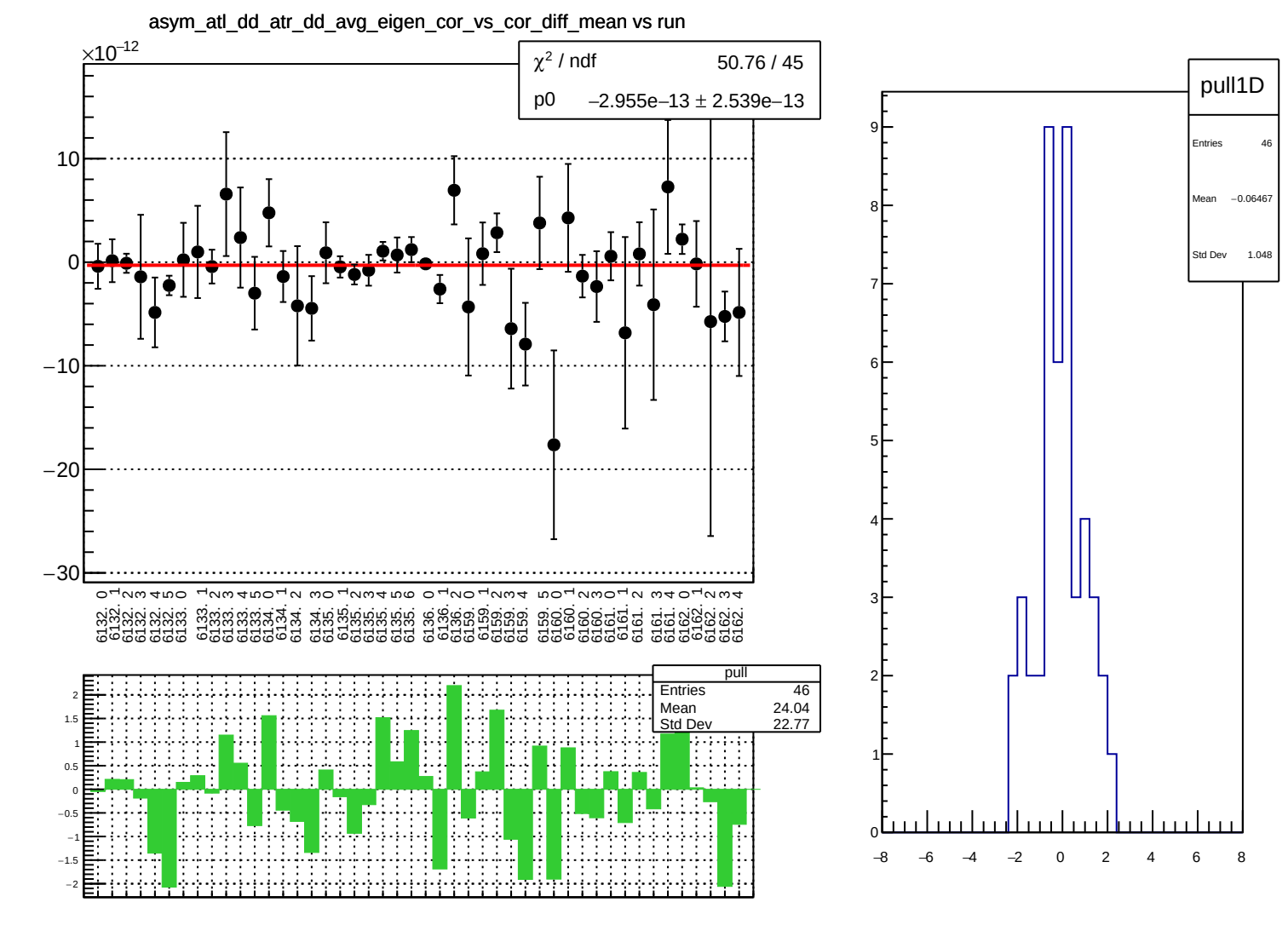

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.111e+05 / 45
p0 0.01536 ± 1.71e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

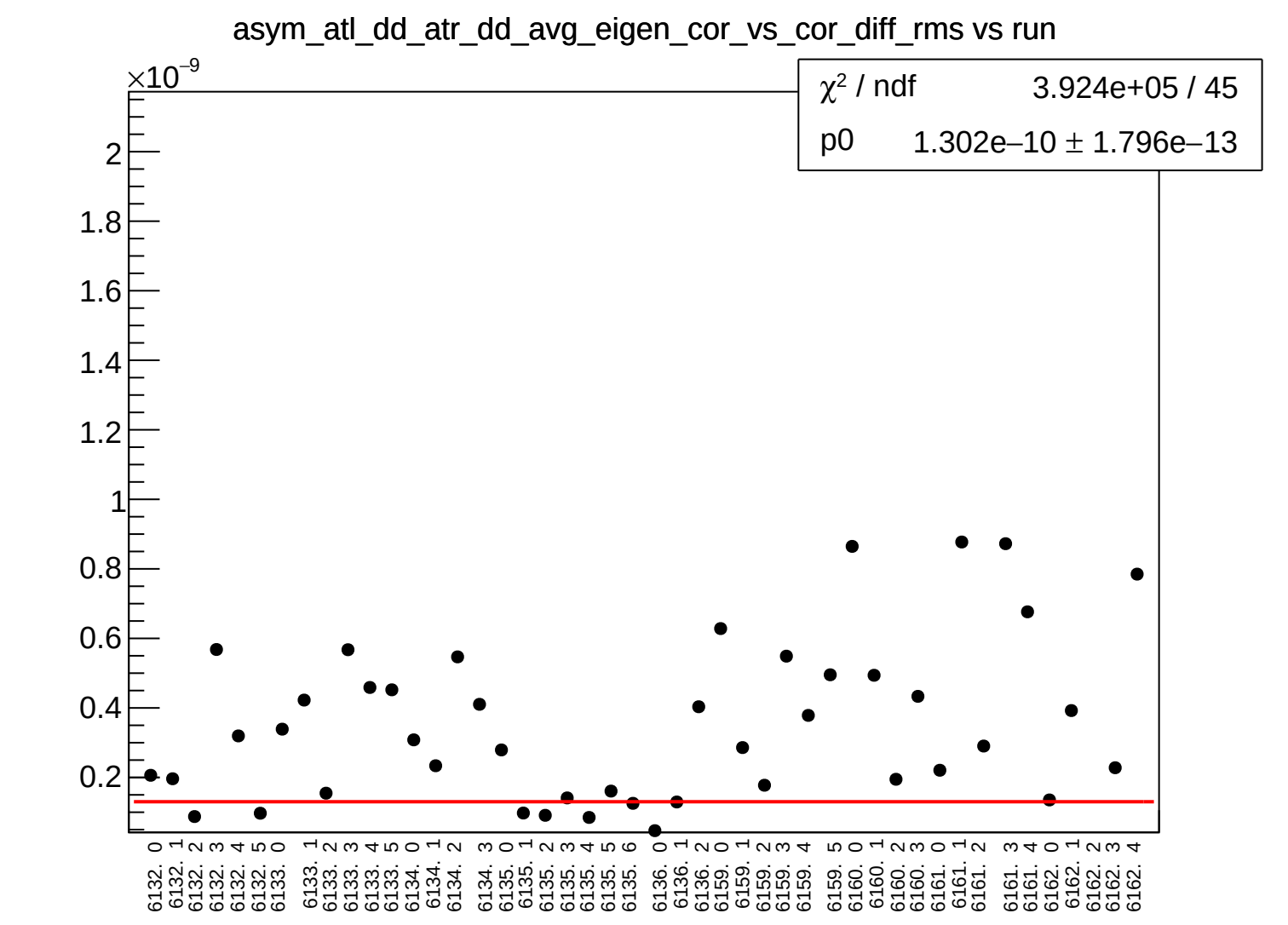

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 55.07 / 45
p0 0.1321 ± 0.1963
pull
Entries 46
Mean 39.12
Std Dev 0
pull1D
Entries 46
Mean 0.05828
Std Dev 1.093

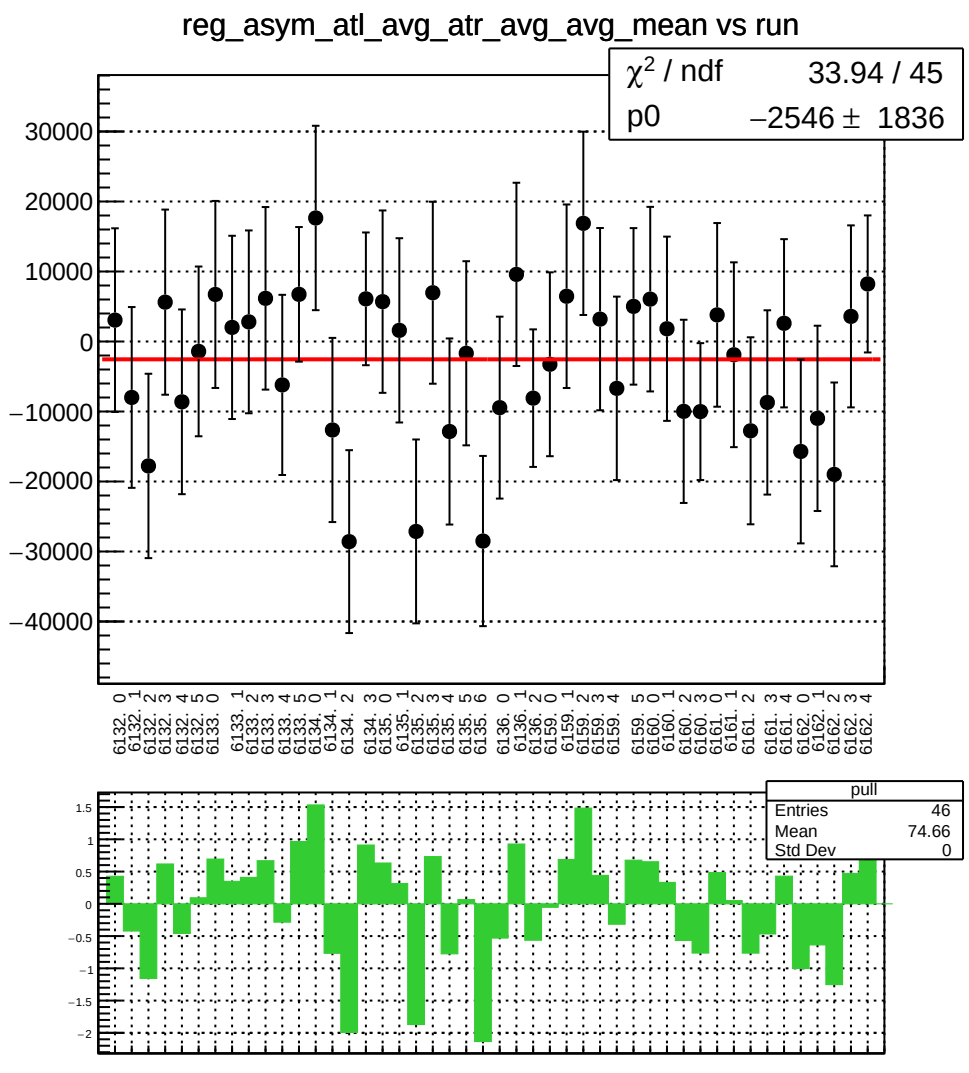

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.765e+04 / 45
p0 130.3 ± 0.1388
220
200
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

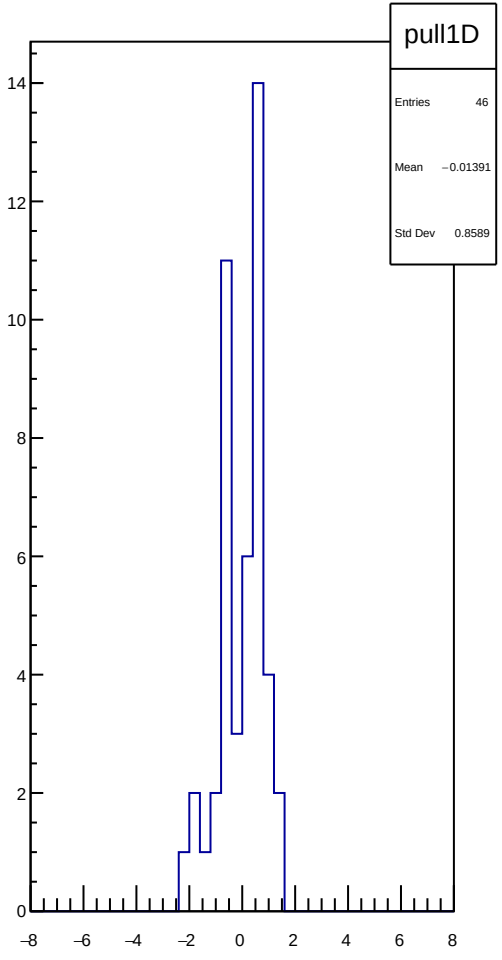

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 55.07 / 45
p0 0.1321 ± 0.1963
pull
Entries 46
Mean 39.12
Std Dev 0
pull1D
Entries 46
Mean 0.05828
Std Dev 1.093

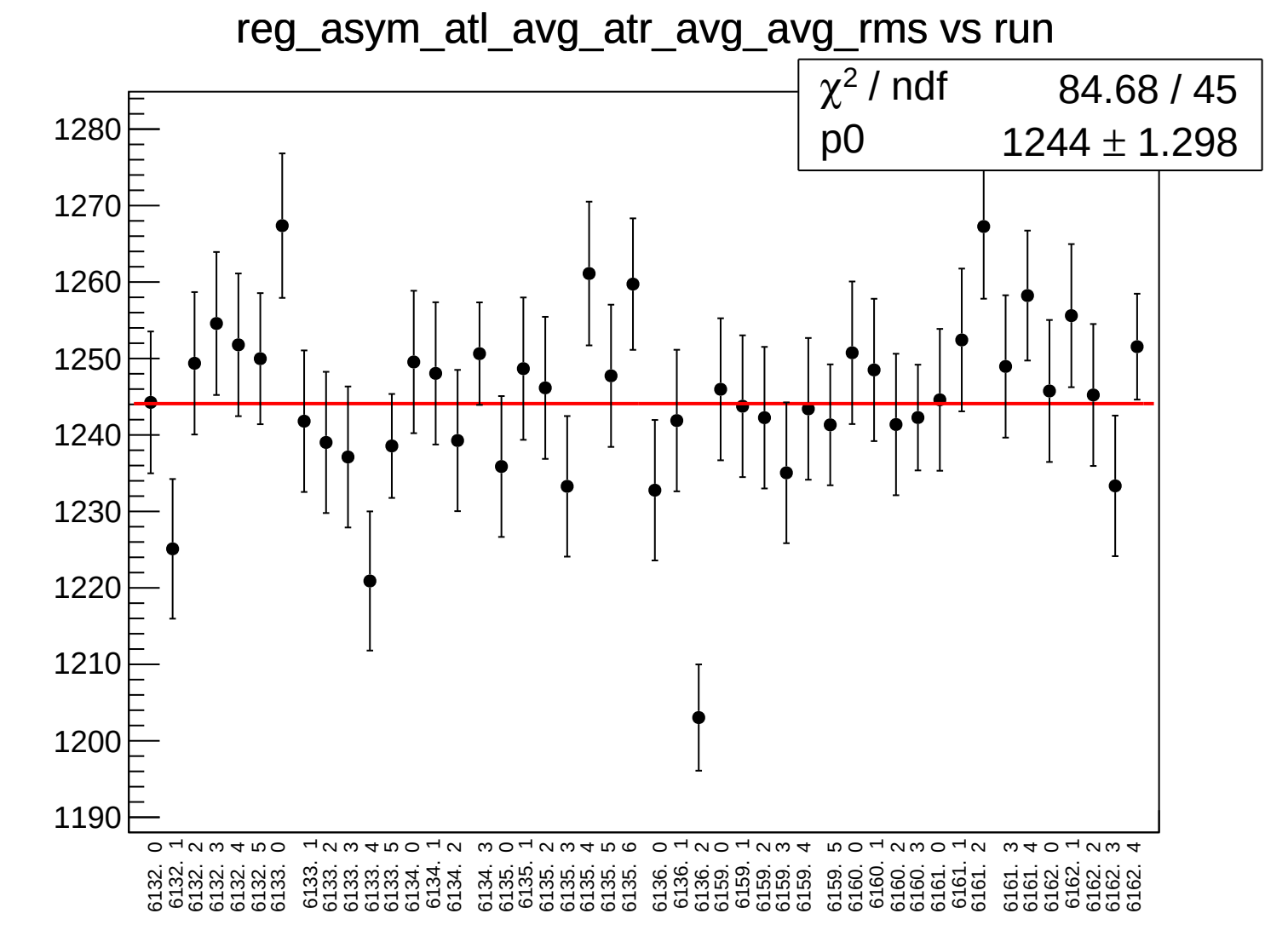

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.765e+04 / 45
p0 130.3 ± 0.1388
220
200
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

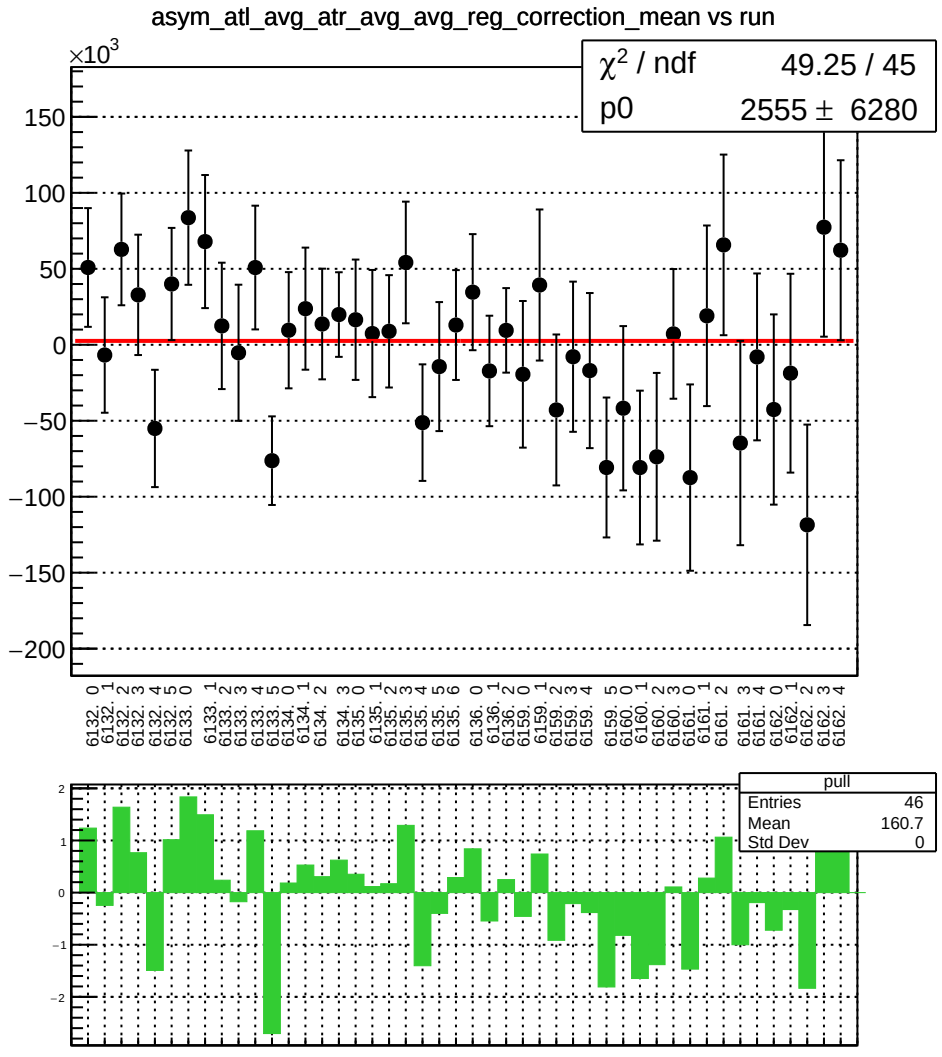

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 50.76 / 45
p0 −2.955e−13 ± 2.539e−13
10
0
−10
−20
−30
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 24.04
Std Dev 22.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.06467
Std Dev 1.048
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

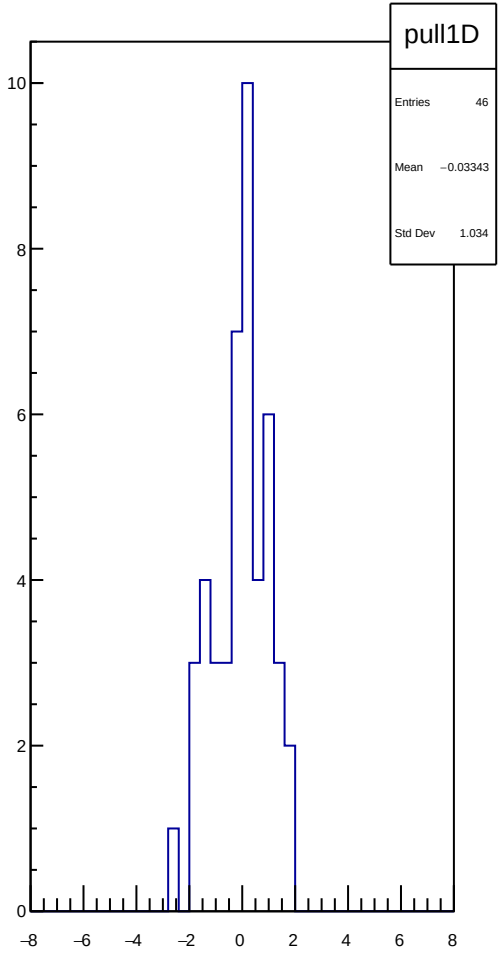

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.924e+05 / 45
p0 1.302e−10 ± 1.796e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

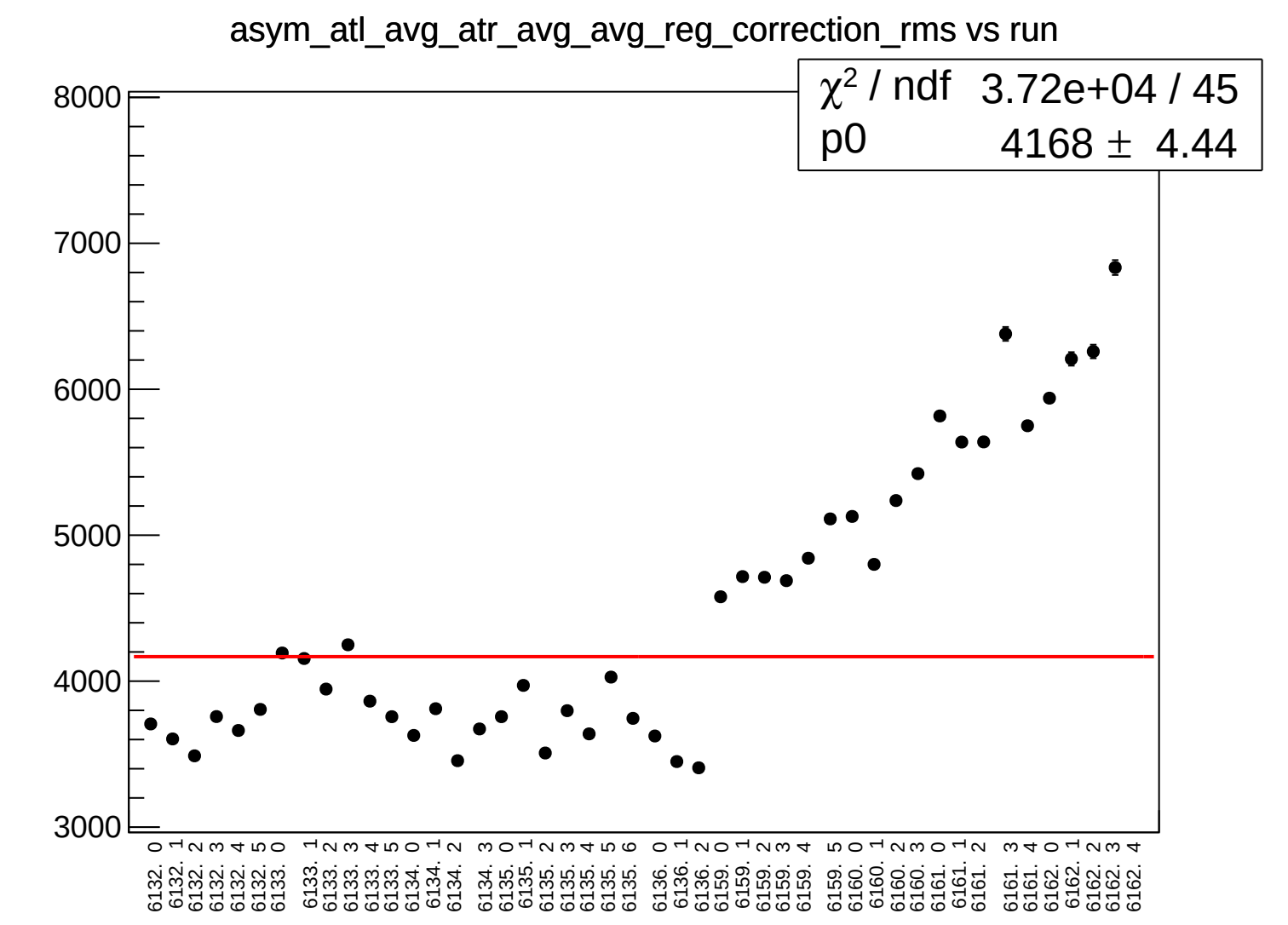

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 33.94 / 45
p0 −2546 ± 1836
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 74.66
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean −0.01391
Std Dev 0.8589
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 84.68 / 45
p0 1244 ± 1.298
1280
1270
1260
1250
1240
1230
1220
1210
1200
1190
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 49.25 / 45
p0 2555 ± 6280
150
100
50
0
−50
−100
−150
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 160.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.03343
Std Dev 1.034
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 3.72e+04 / 45
p0 4168 ± 4.44
8000
7000
6000
5000
4000
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
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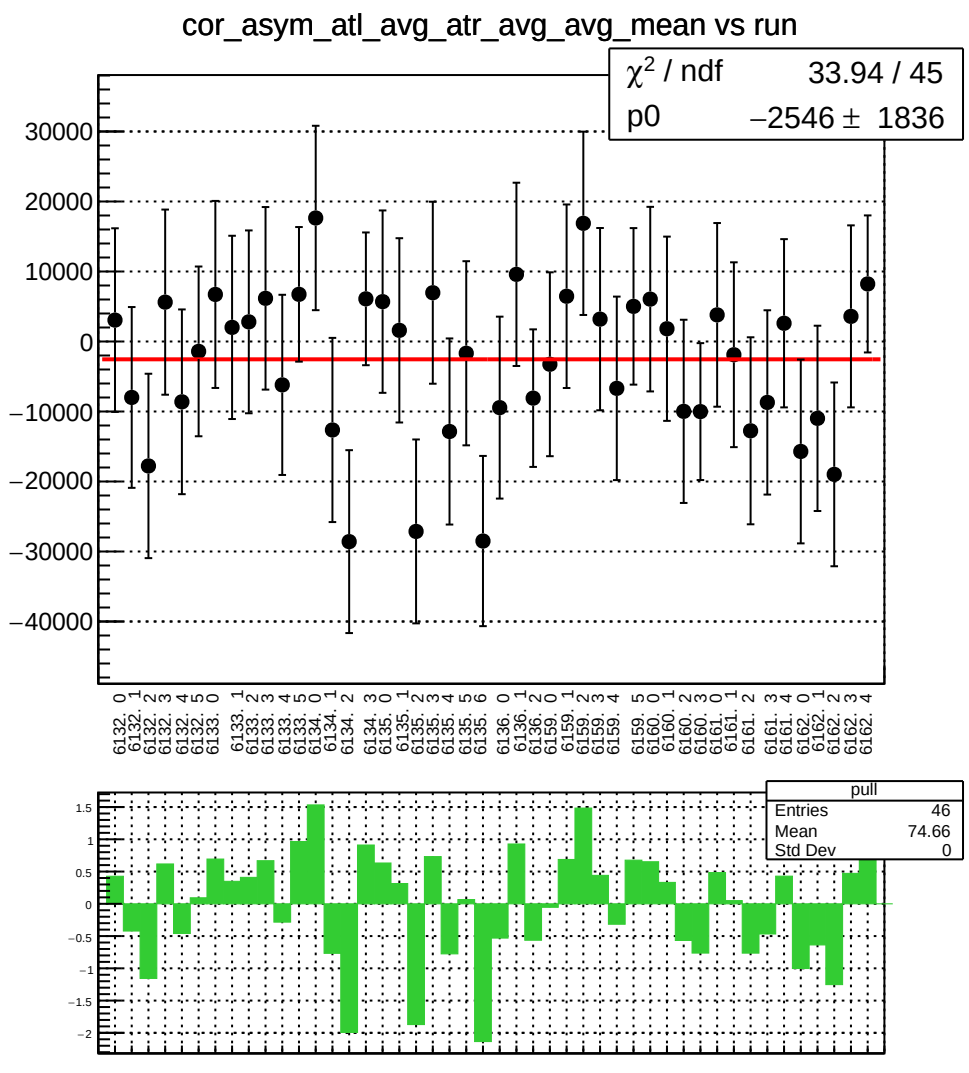
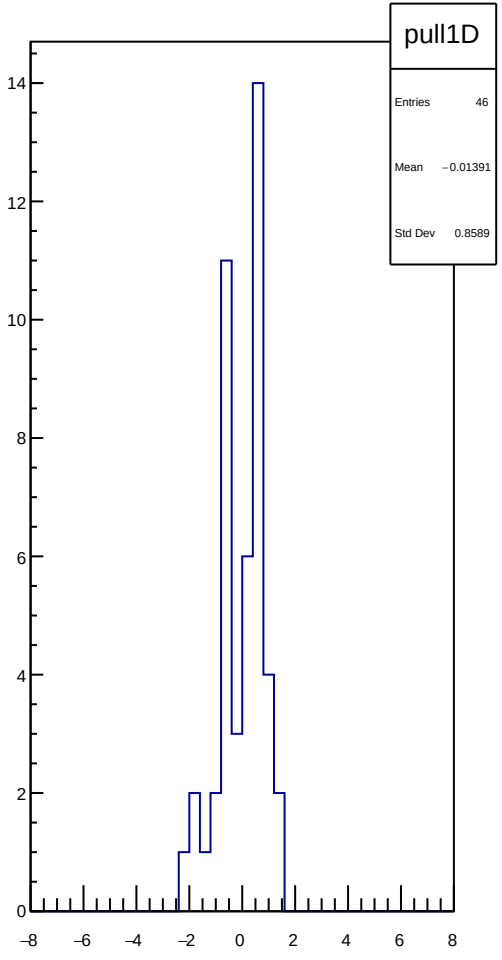
6162. 4


cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 33.94 / 45
p0 −2546 ± 1836
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 74.66
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean −0.01391
Std Dev 0.8589
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10
8
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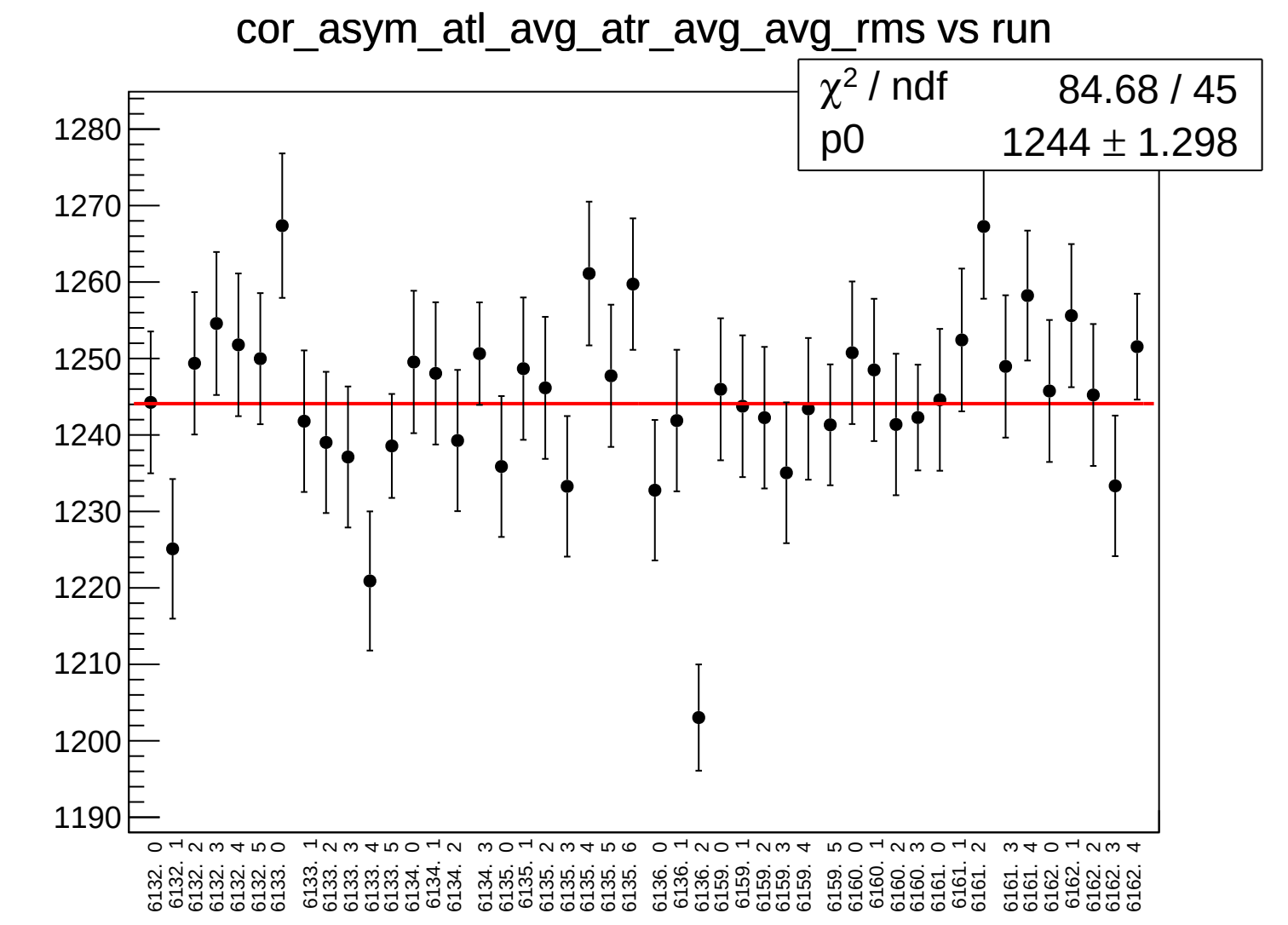
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 84.68 / 45
p0 1244 ± 1.298
1280
1270
1260
1250
1240
1230
1220
1210
1200
1190
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6134. 2
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
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6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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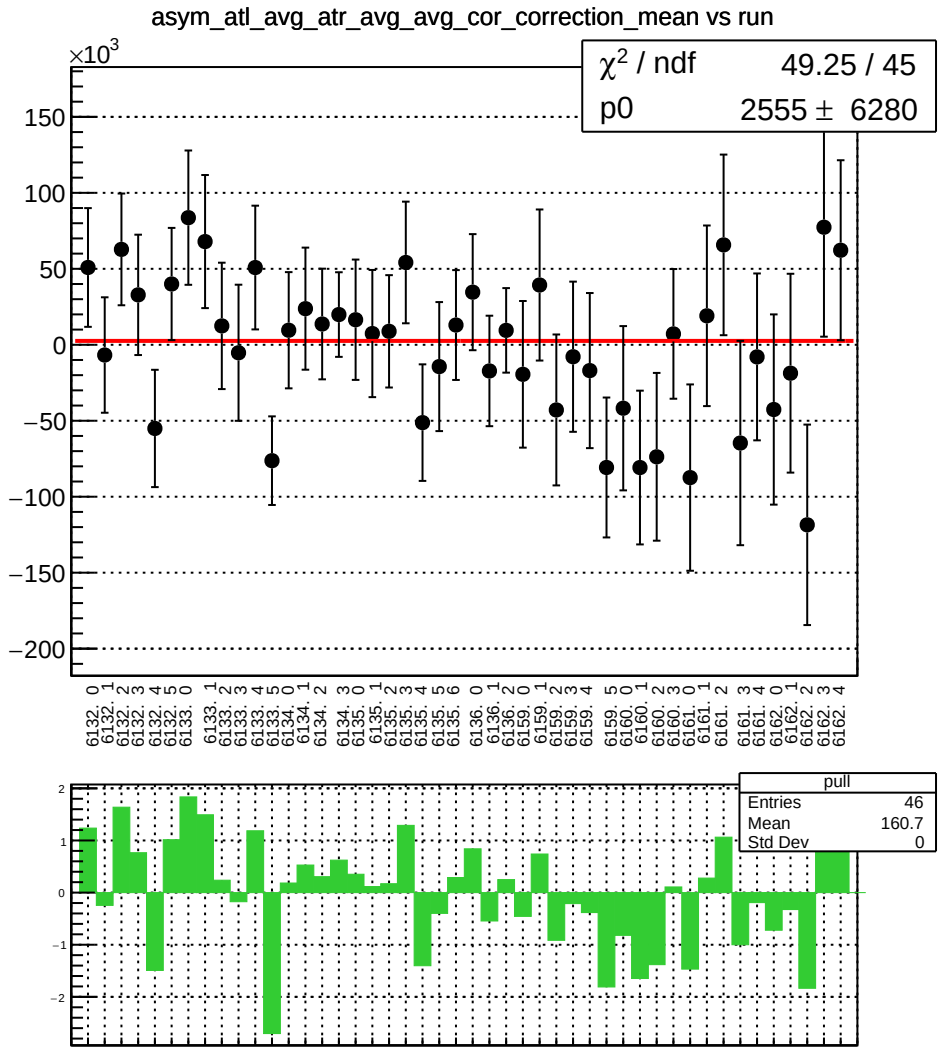
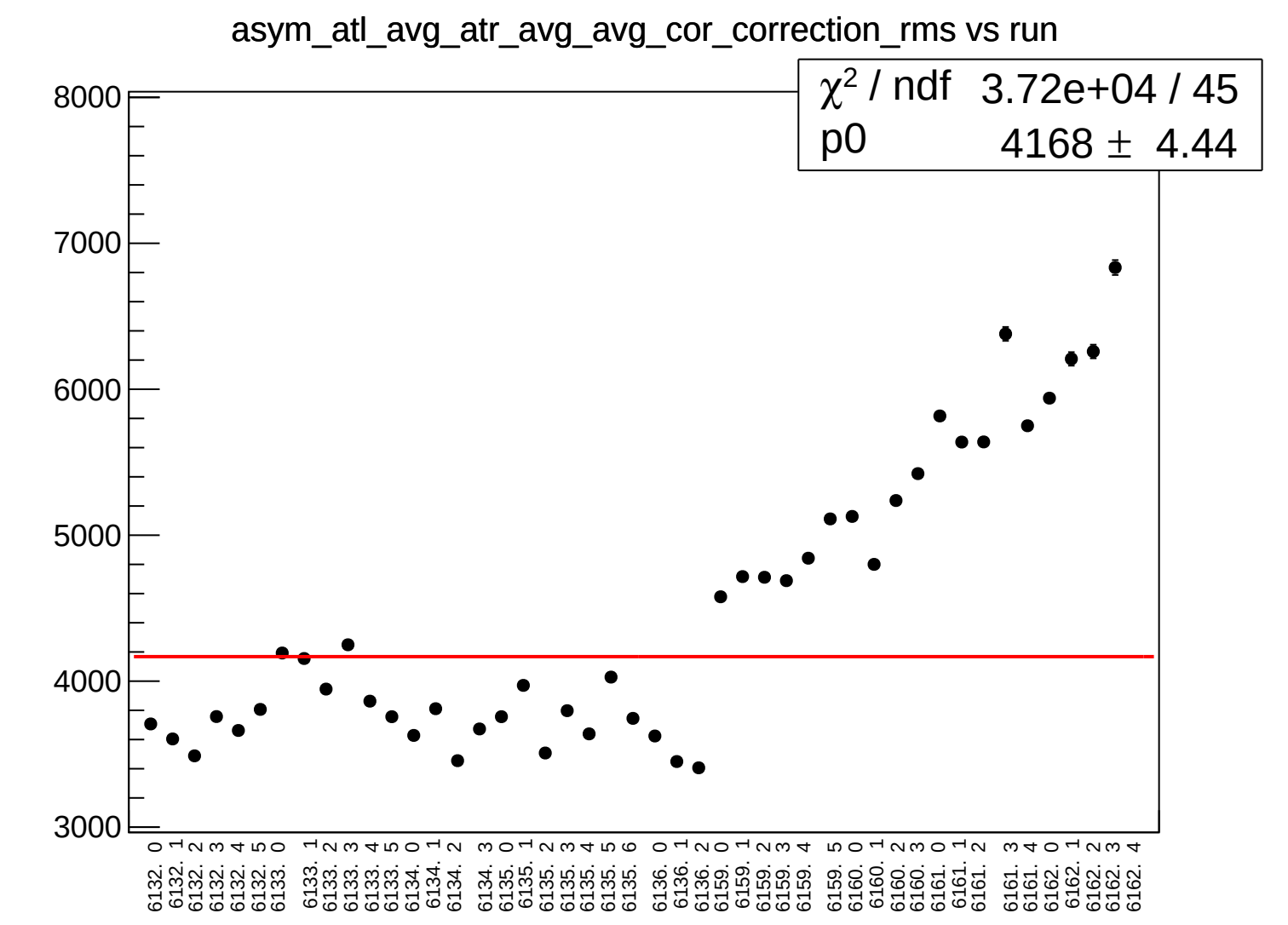
6162. 4


asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 49.25 / 45
p0 2555 ± 6280
150
100
50
0
−50
−100
−150
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 160.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.03343
Std Dev 1.034
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 3.72e+04 / 45
p0 4168 ± 4.44
8000
7000
6000
5000
4000
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6162. 0
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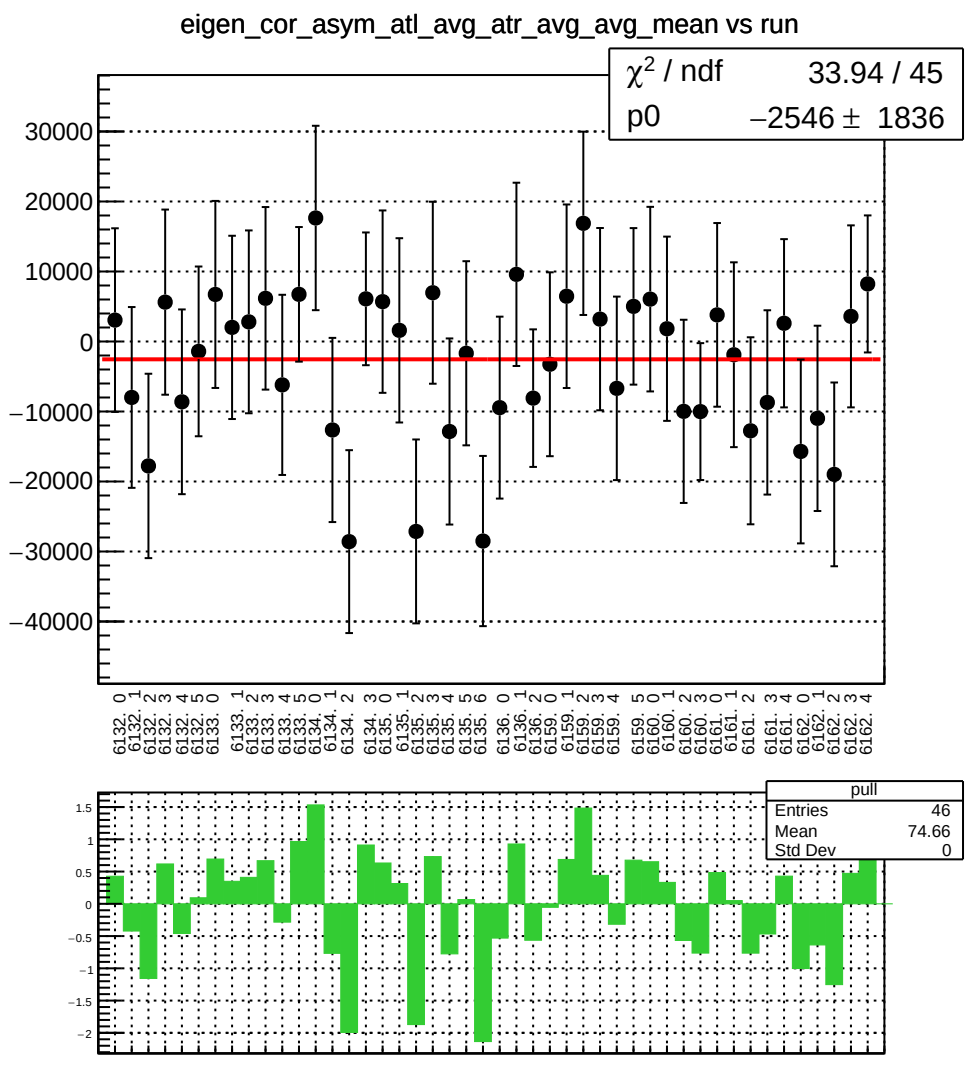
6162. 3
6162. 4


eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 33.94 / 45
p0 −2546 ± 1836
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
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6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 74.66
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.01391
Std Dev 0.8589
14
12
10
8
6
4
2
0
−8
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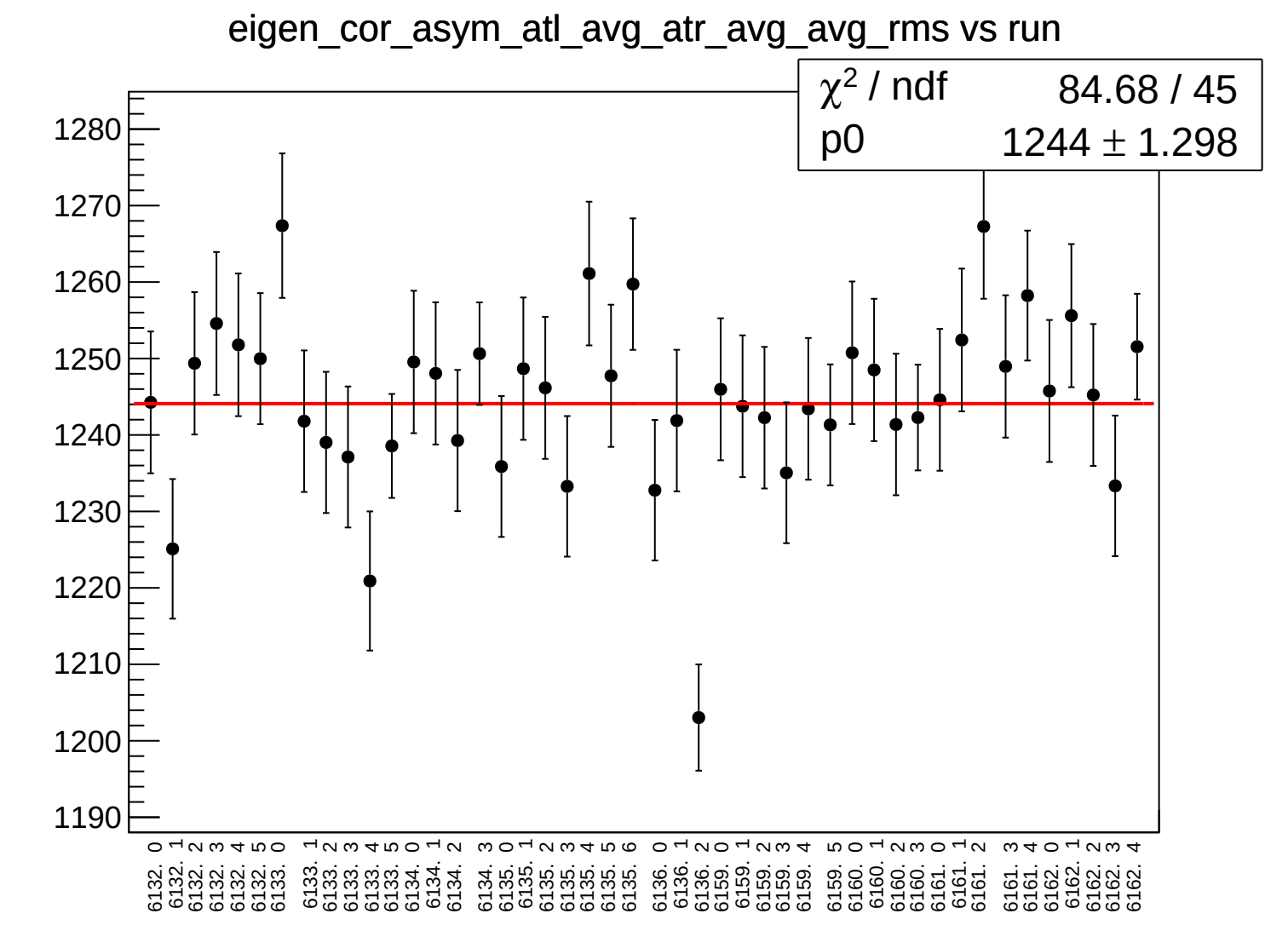
−4
−2
0
2
4
6
8


eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 84.68 / 45
p0 1244 ± 1.298
1280
1270
1260
1250
1240
1230
1220
1210
1200
1190
6132. 0
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6132. 2
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6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
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
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 4
6162. 0
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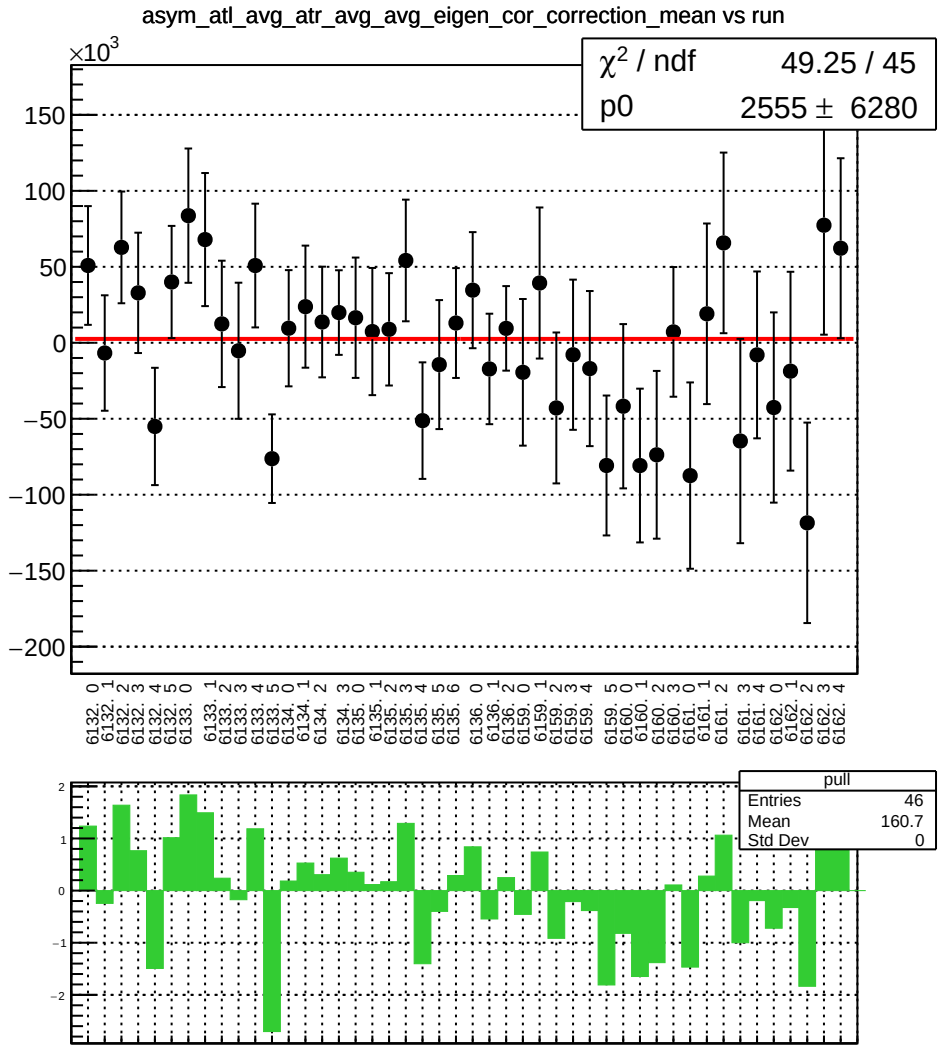
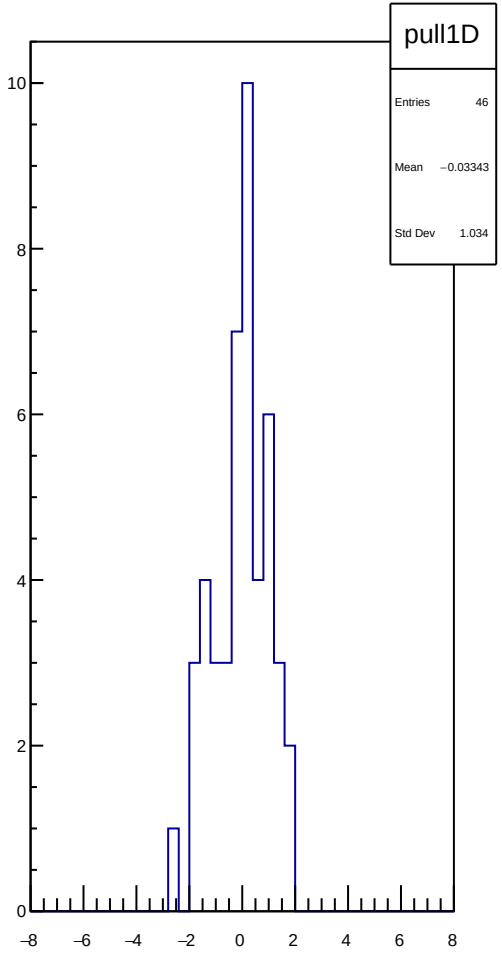
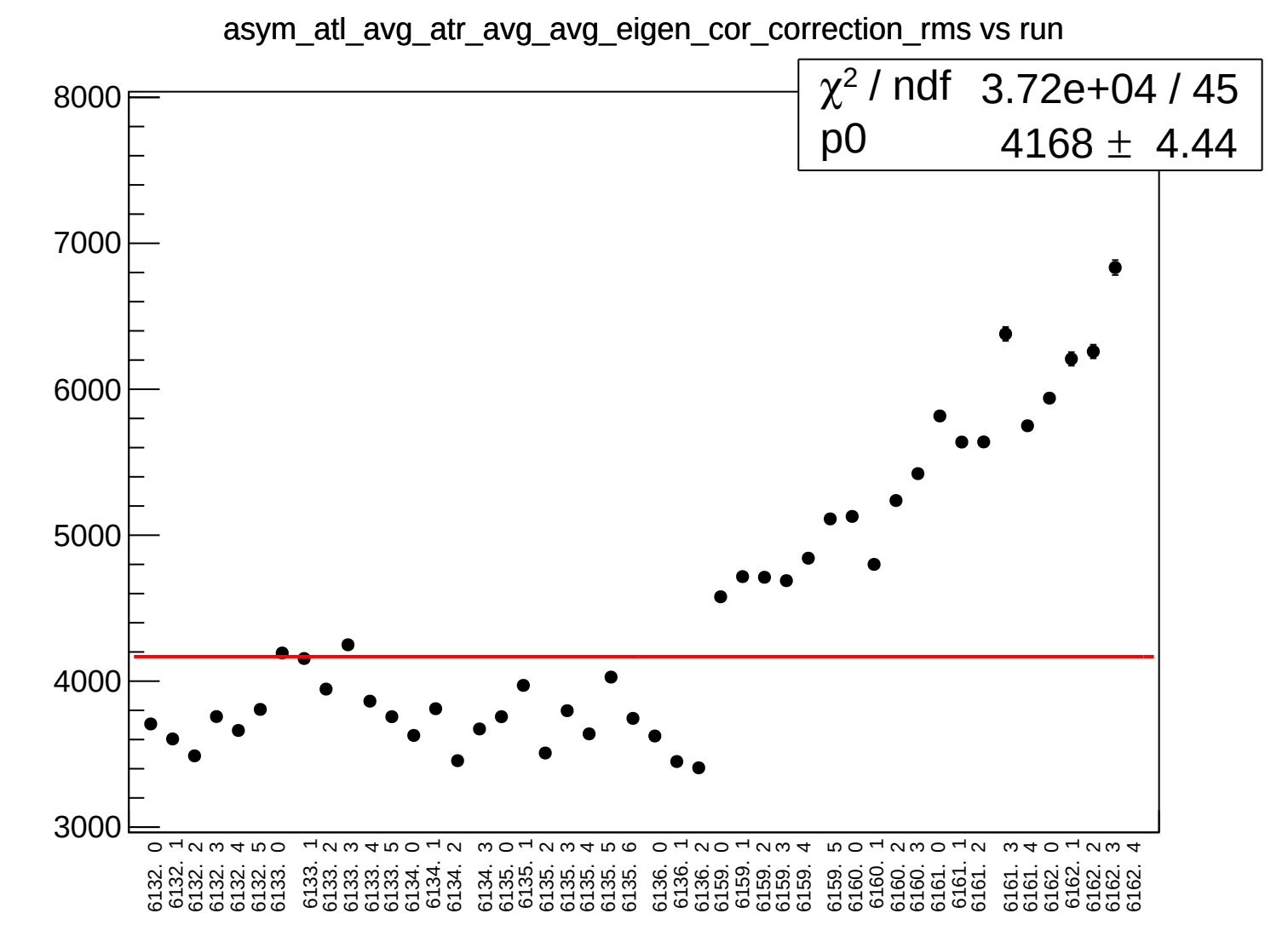
6162. 3
6162. 4


asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 49.25 / 45
p0 2555 ± 6280
150
100
50
0
−50
−100
−150
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 160.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.03343
Std Dev 1.034
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.72e+04 / 45
p0 4168 ± 4.44
8000
7000
6000
5000
4000
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 3
6133. 4
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6134. 0
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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
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
6161. 3
6161. 4
6162. 0
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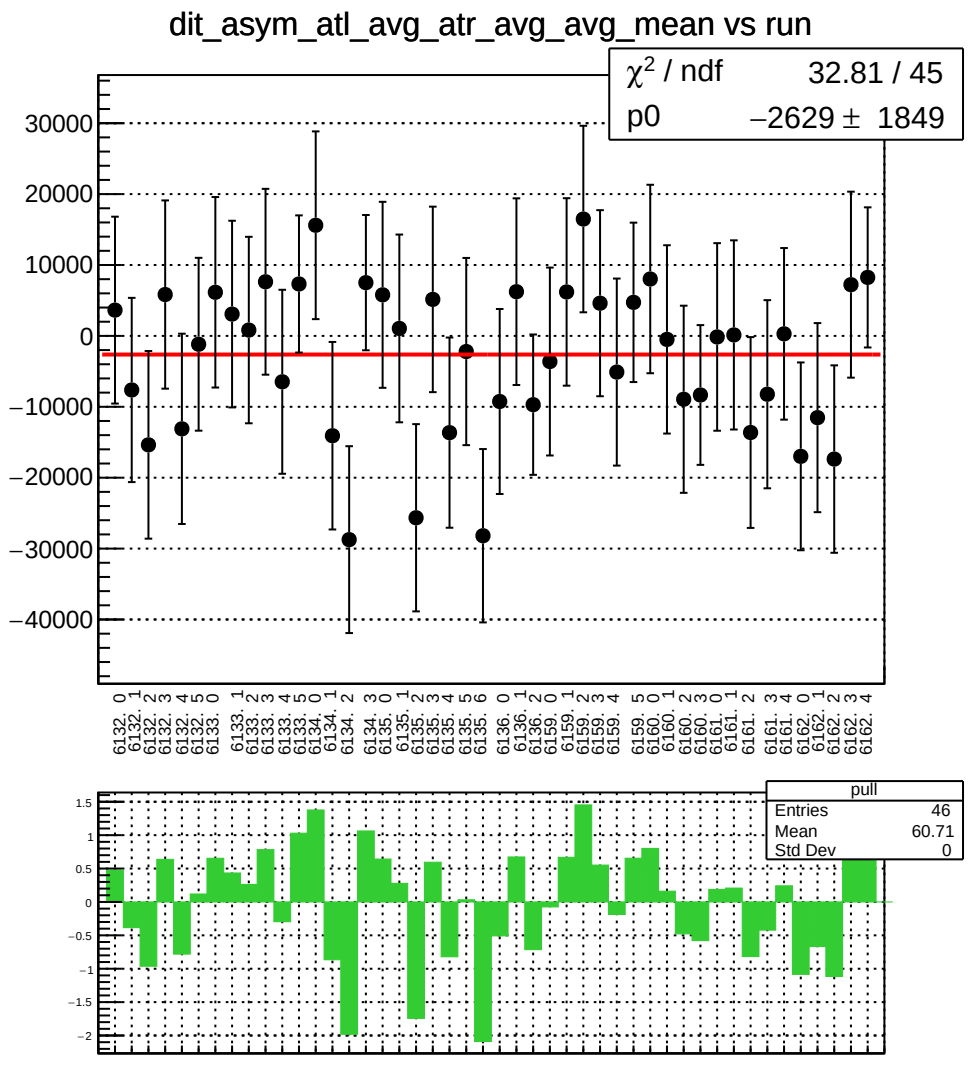
6162. 4


dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 32.81 / 45
p0 −2629 ± 1849
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
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6133. 5
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6134. 2
6134. 3
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6159. 5
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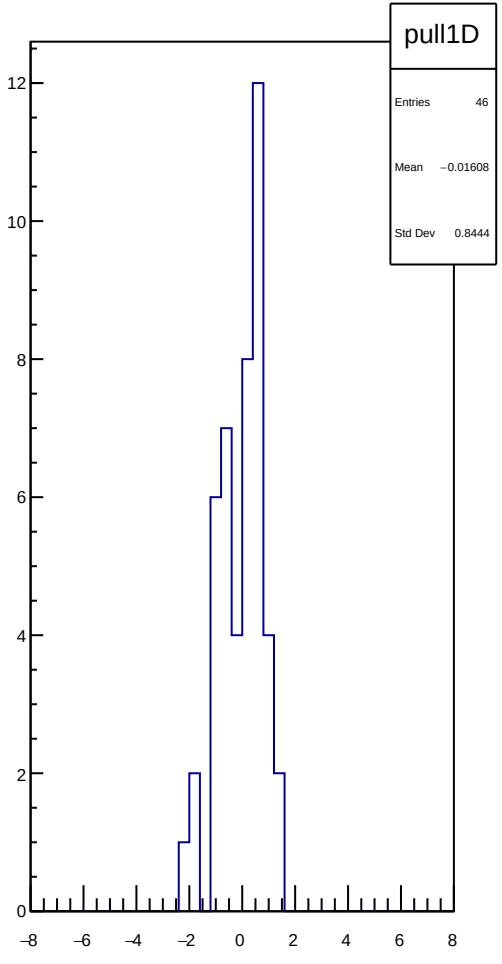
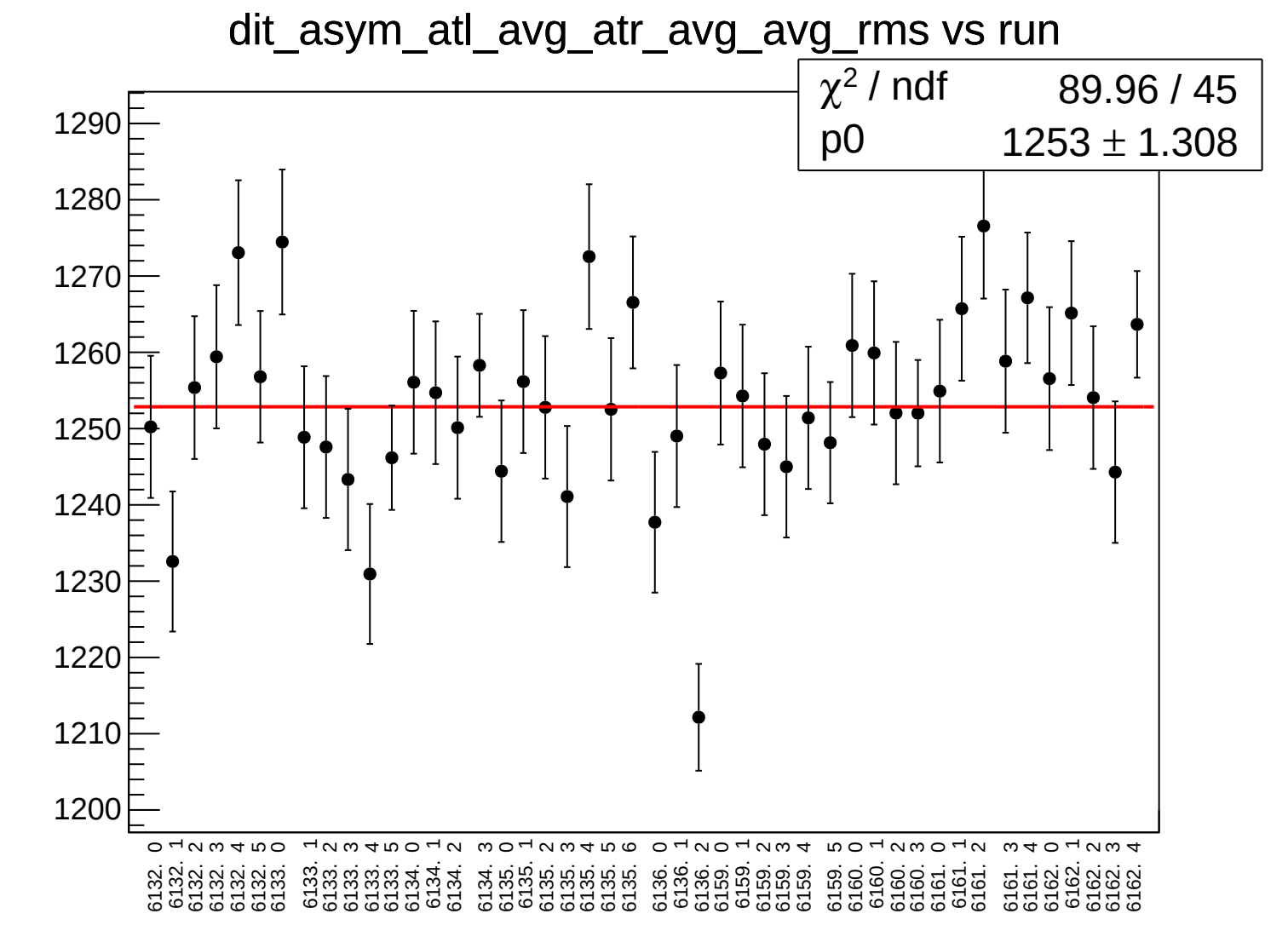
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 60.71
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean −0.01608
Std Dev 0.8444
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 89.96 / 45
p0 1253 ± 1.308
1290
1280
1270
1260
1250
1240
1230
1220
1210
1200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
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6135. 2
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6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
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6160. 1
6160. 2
6160. 3
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6161. 2
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6161. 4
6162. 0
6162. 1
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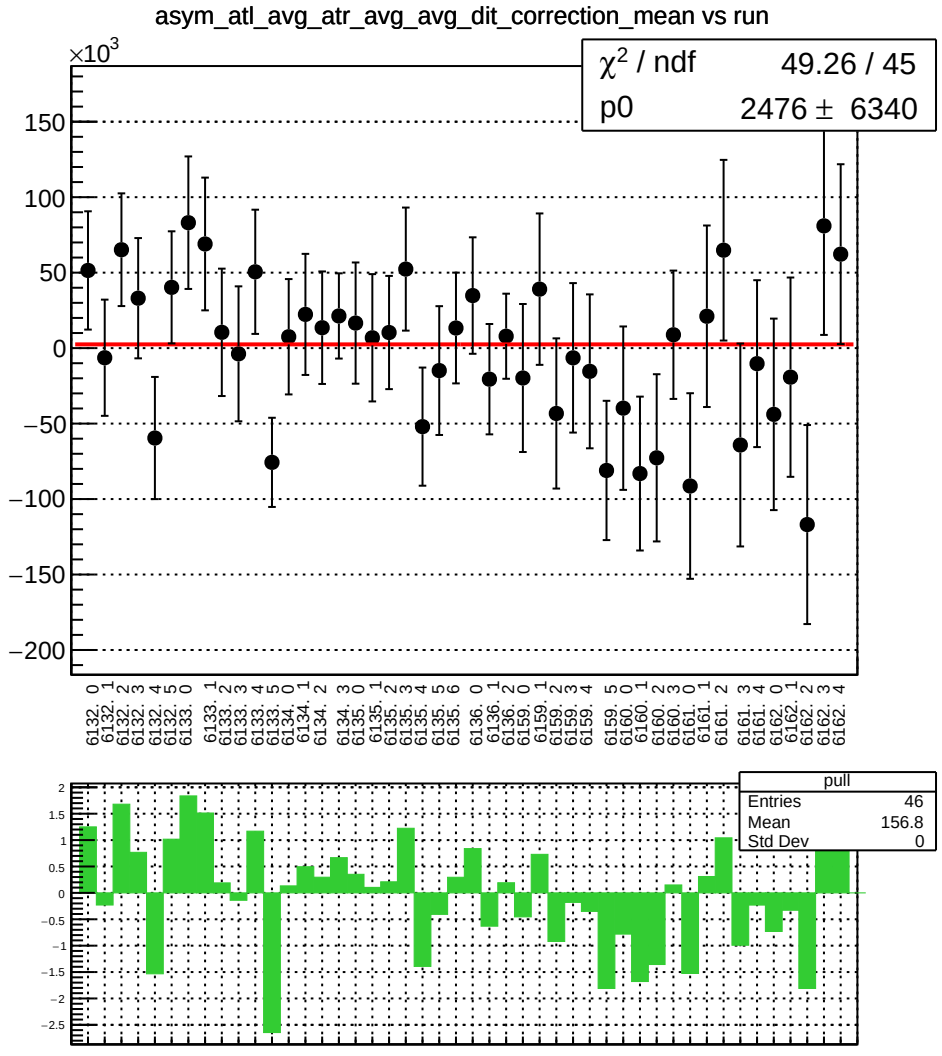
6162. 4


asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 49.26 / 45
p0 2476 ± 6340
150
100
50
0
−50
−100
−150
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 2
6133. 3
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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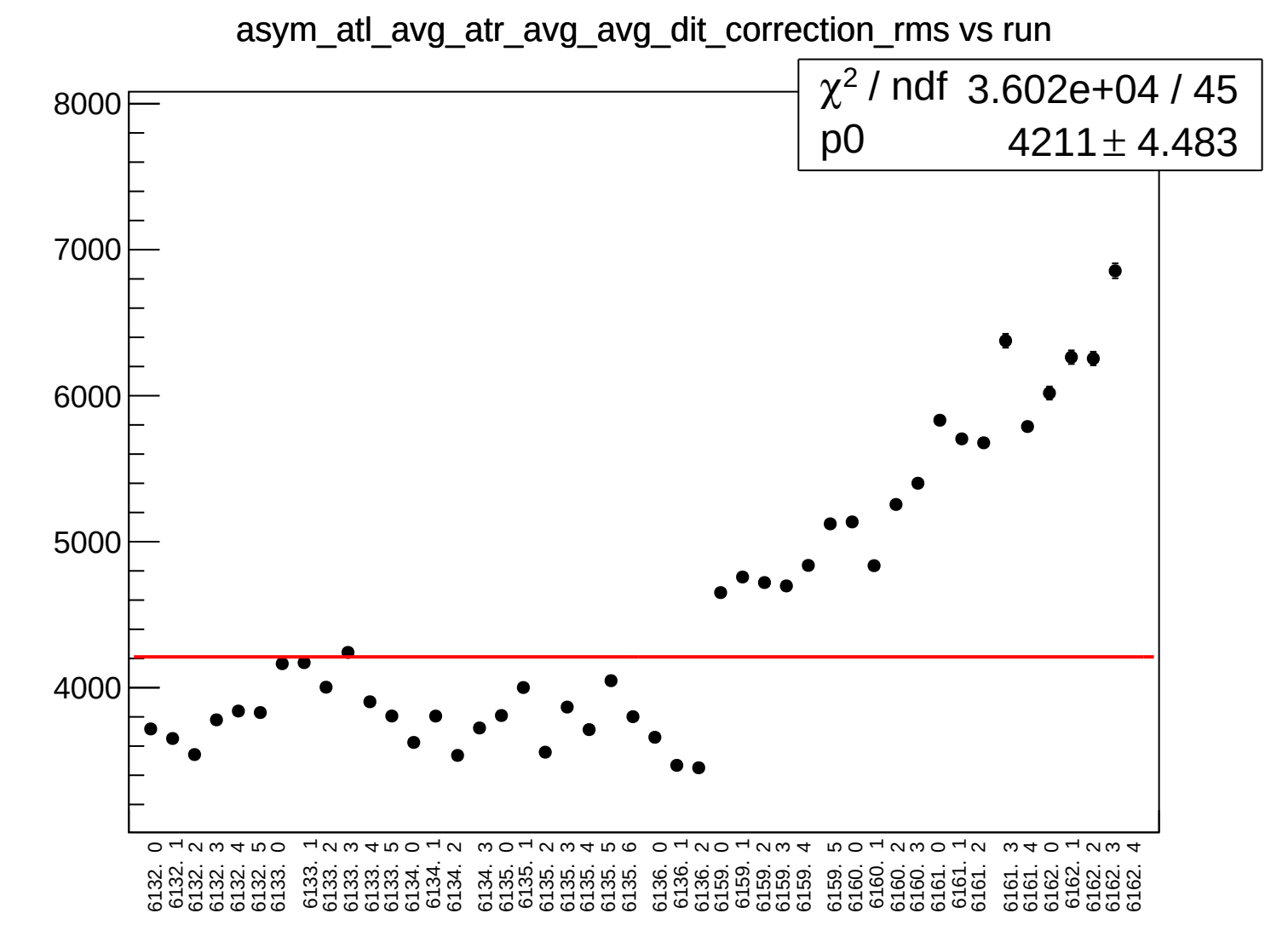
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 156.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.03436
Std Dev 1.034
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 3.602e+04 / 45
p0 4211 ± 4.483
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6160. 0
6160. 1
6160. 2
6160. 3
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6162. 0
6162. 1
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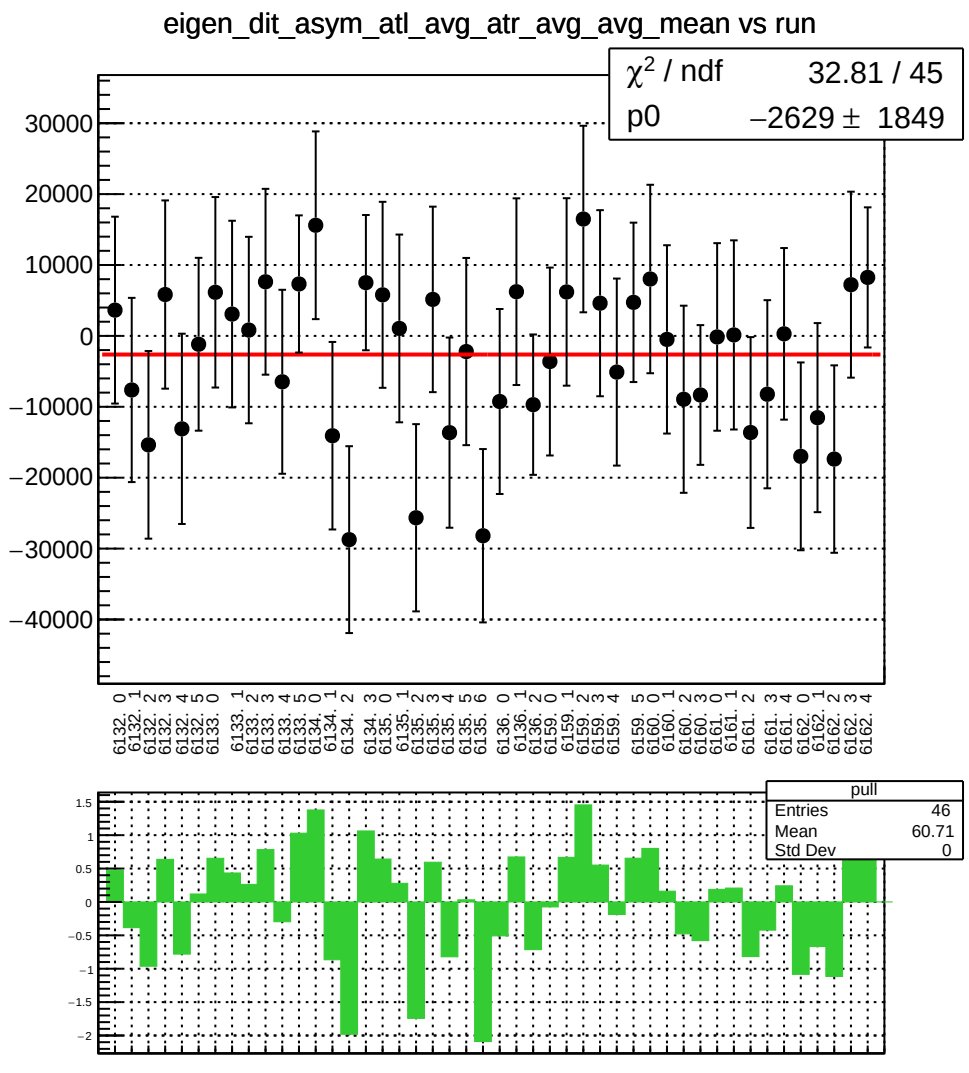
6162. 4


eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 32.81 / 45
p0 −2629 ± 1849
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6136. 0
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6159. 5
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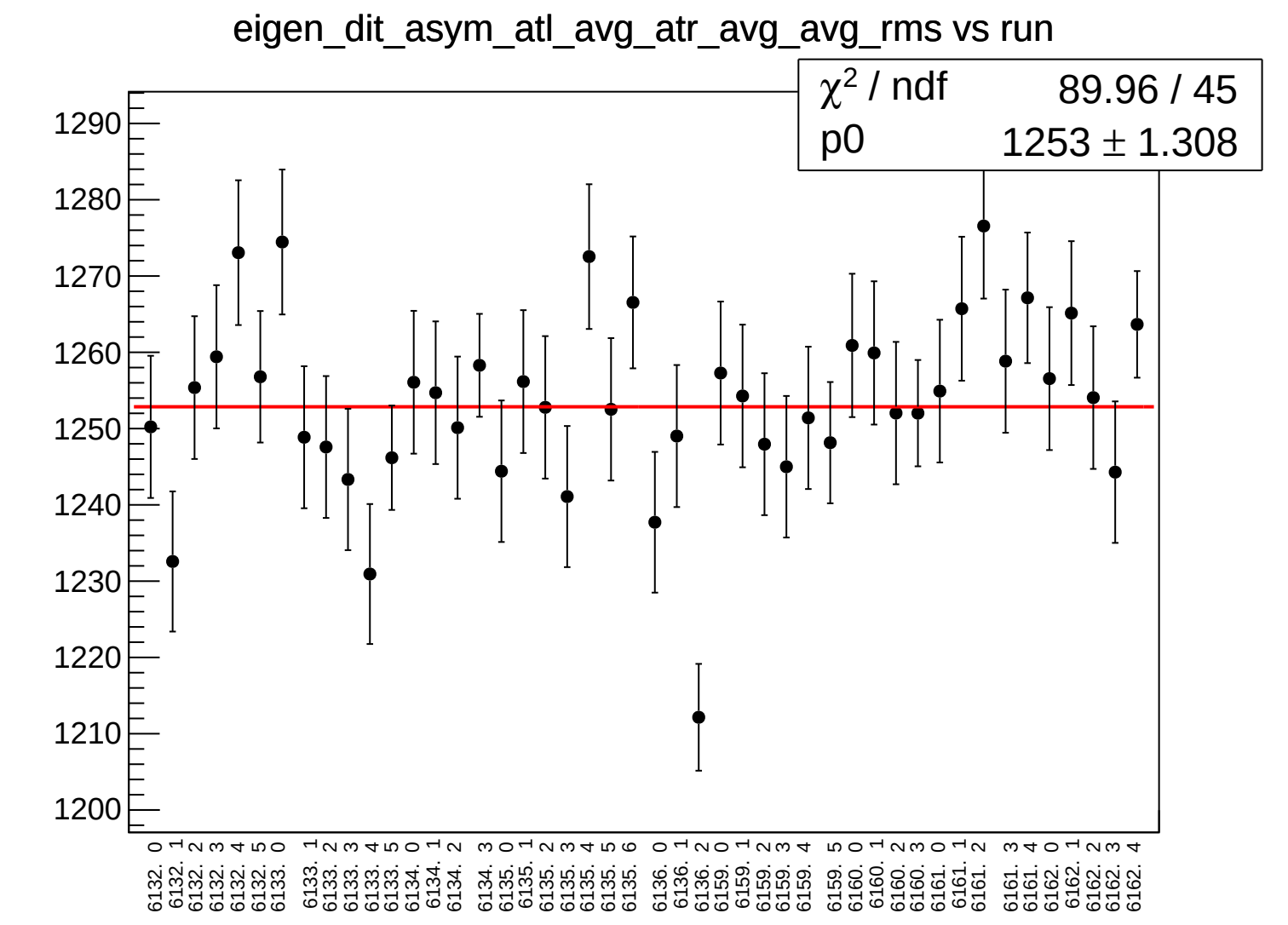
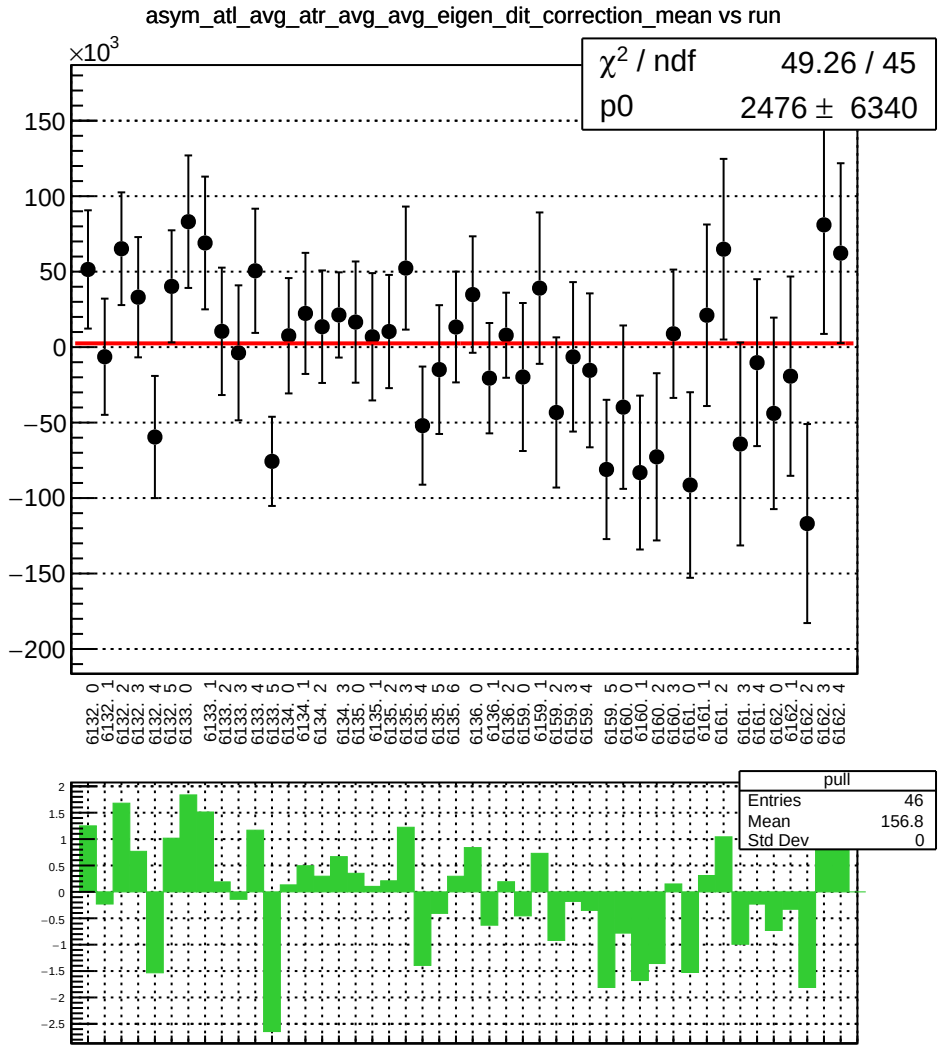
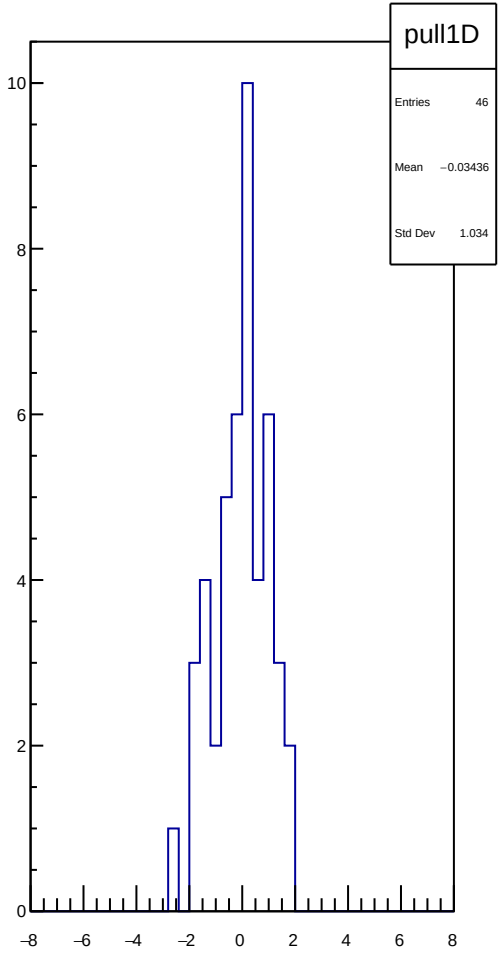
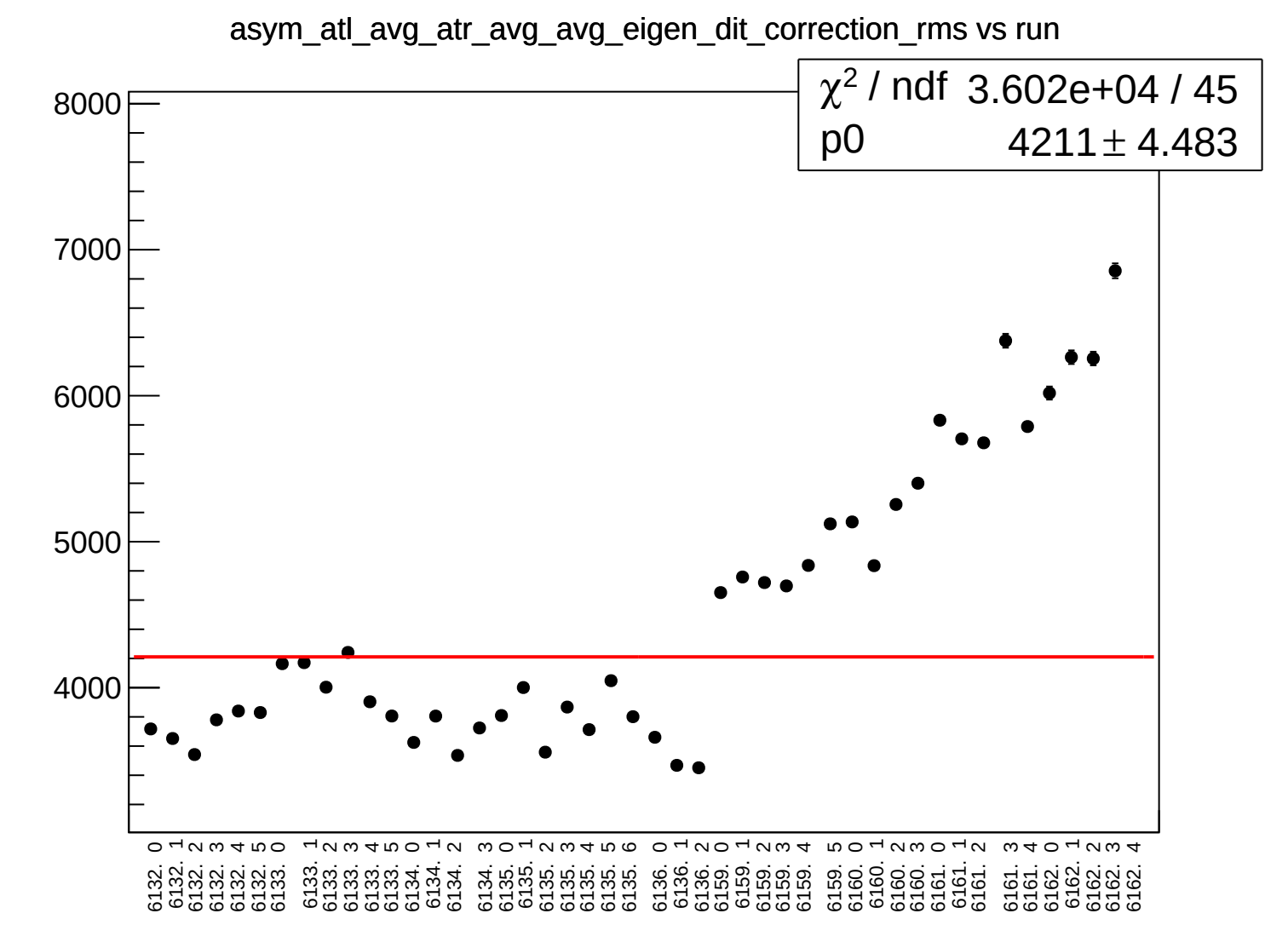
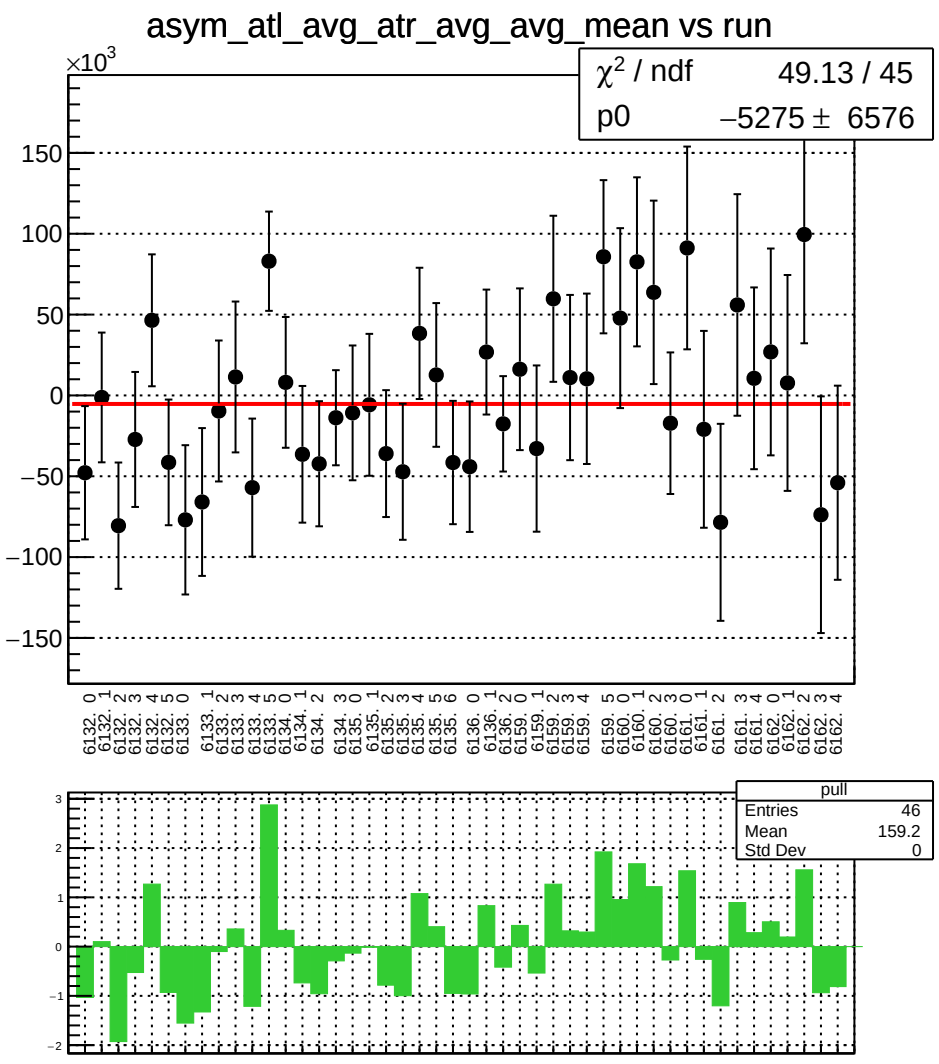
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 60.71
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.01608
Std Dev 0.8444
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

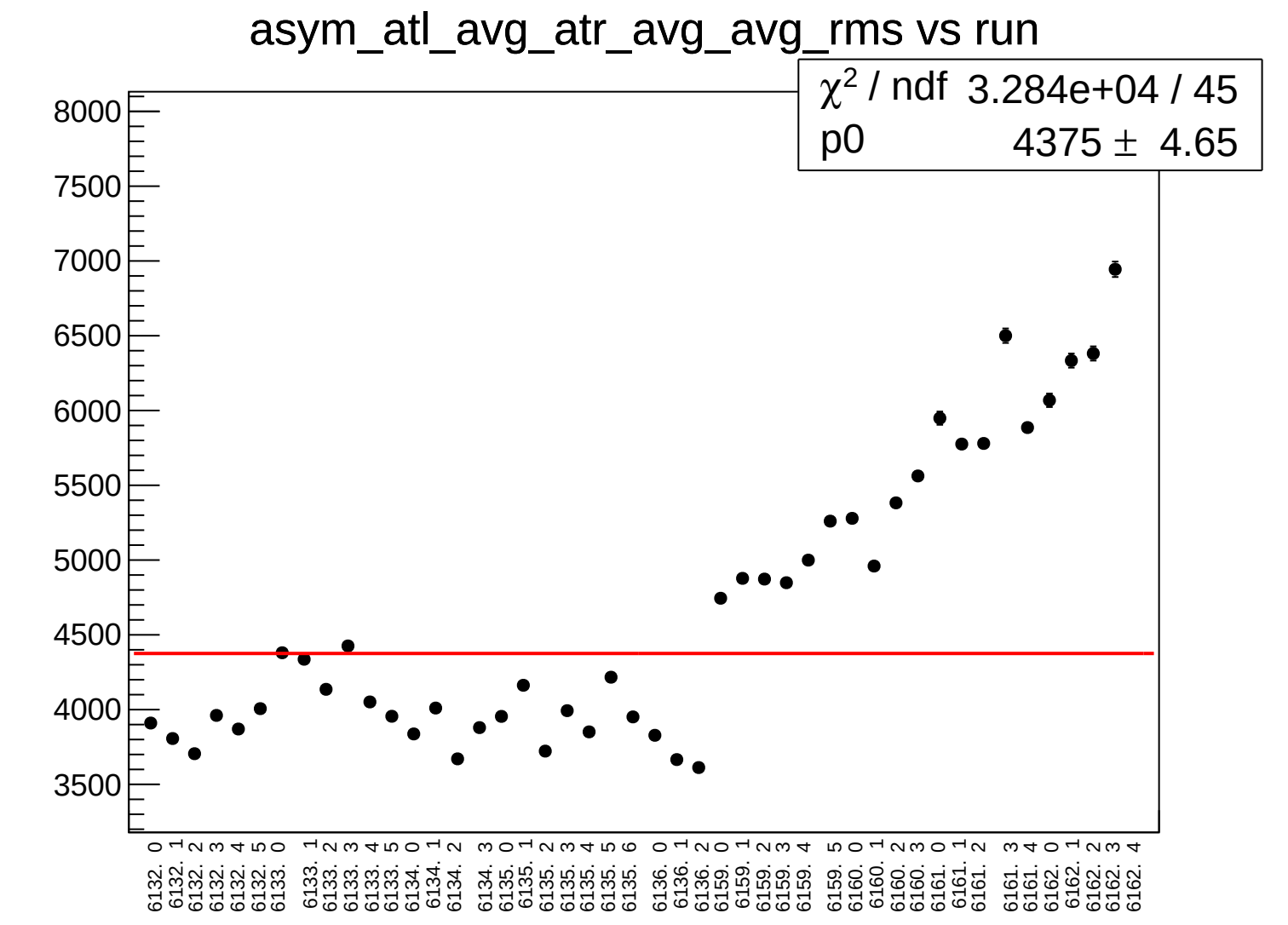

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 89.96 / 45
p0 1253 ± 1.308
1290
1280
1270
1260
1250
1240
1230
1220
1210
1200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

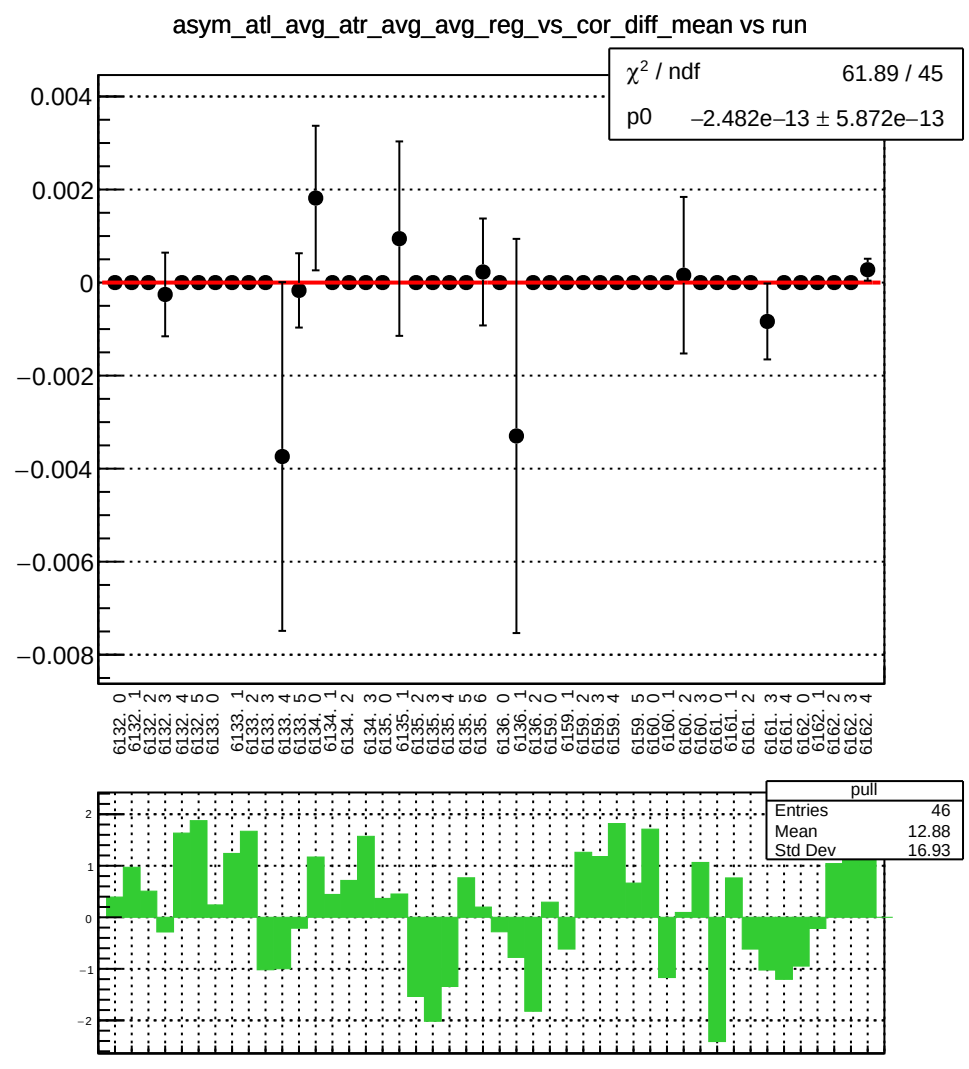

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 49.26 / 45
p0 2476 ± 6340
150
100
50
0
−50
−100
−150
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 156.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

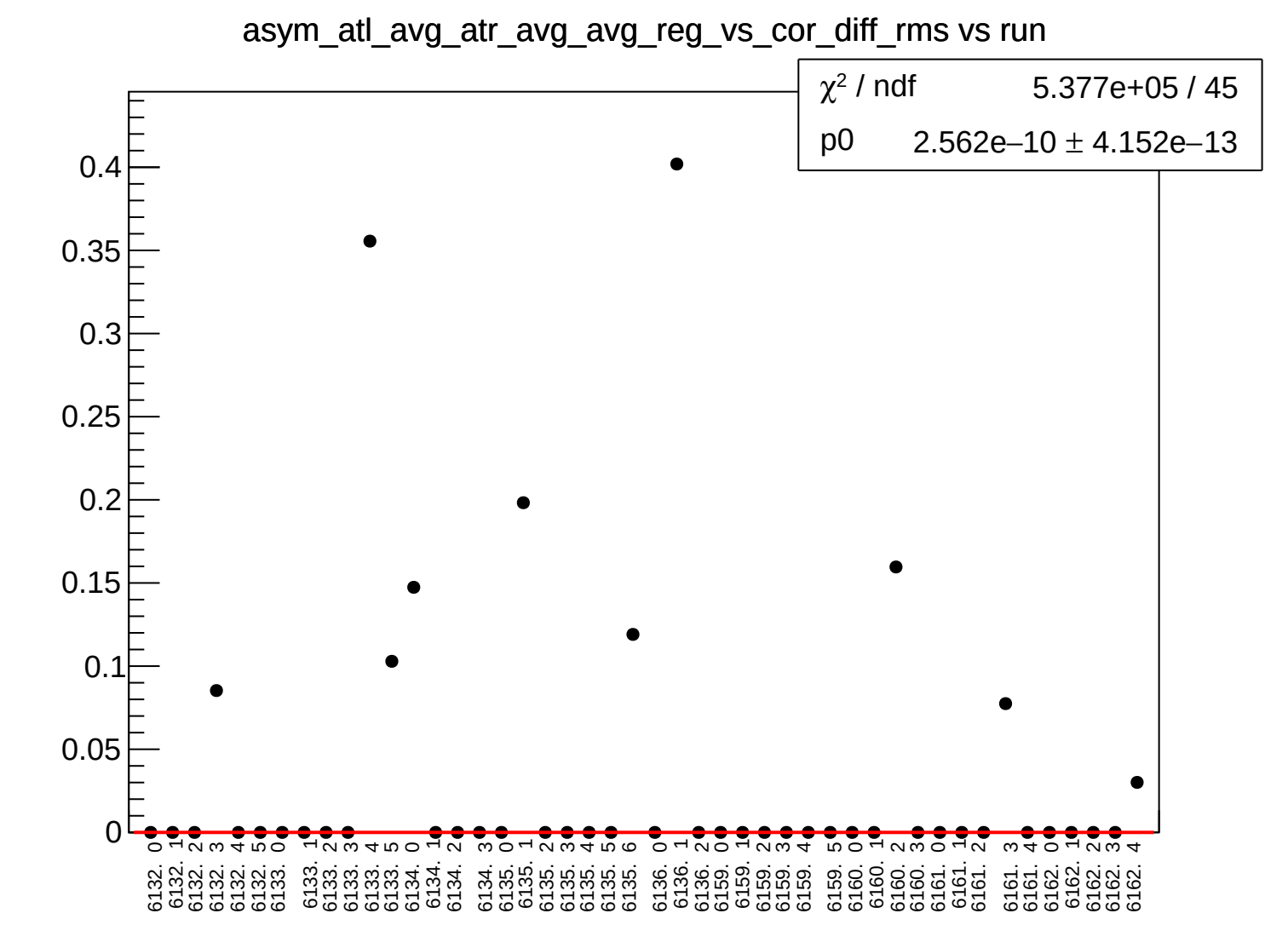

pull1D
Entries 46
Mean −0.03436
Std Dev 1.034
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

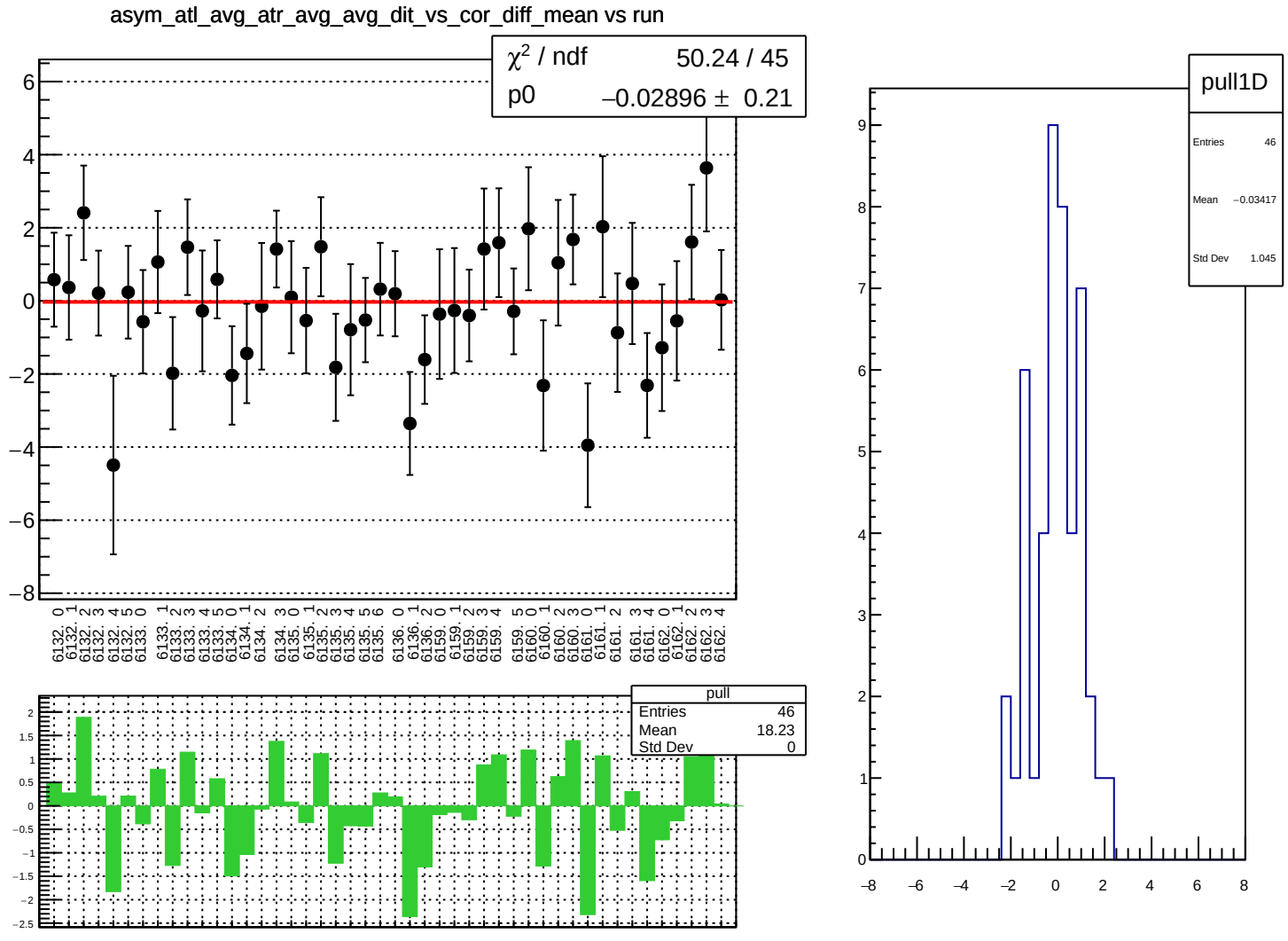

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.602e+04 / 45
p0 4211 ± 4.483
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

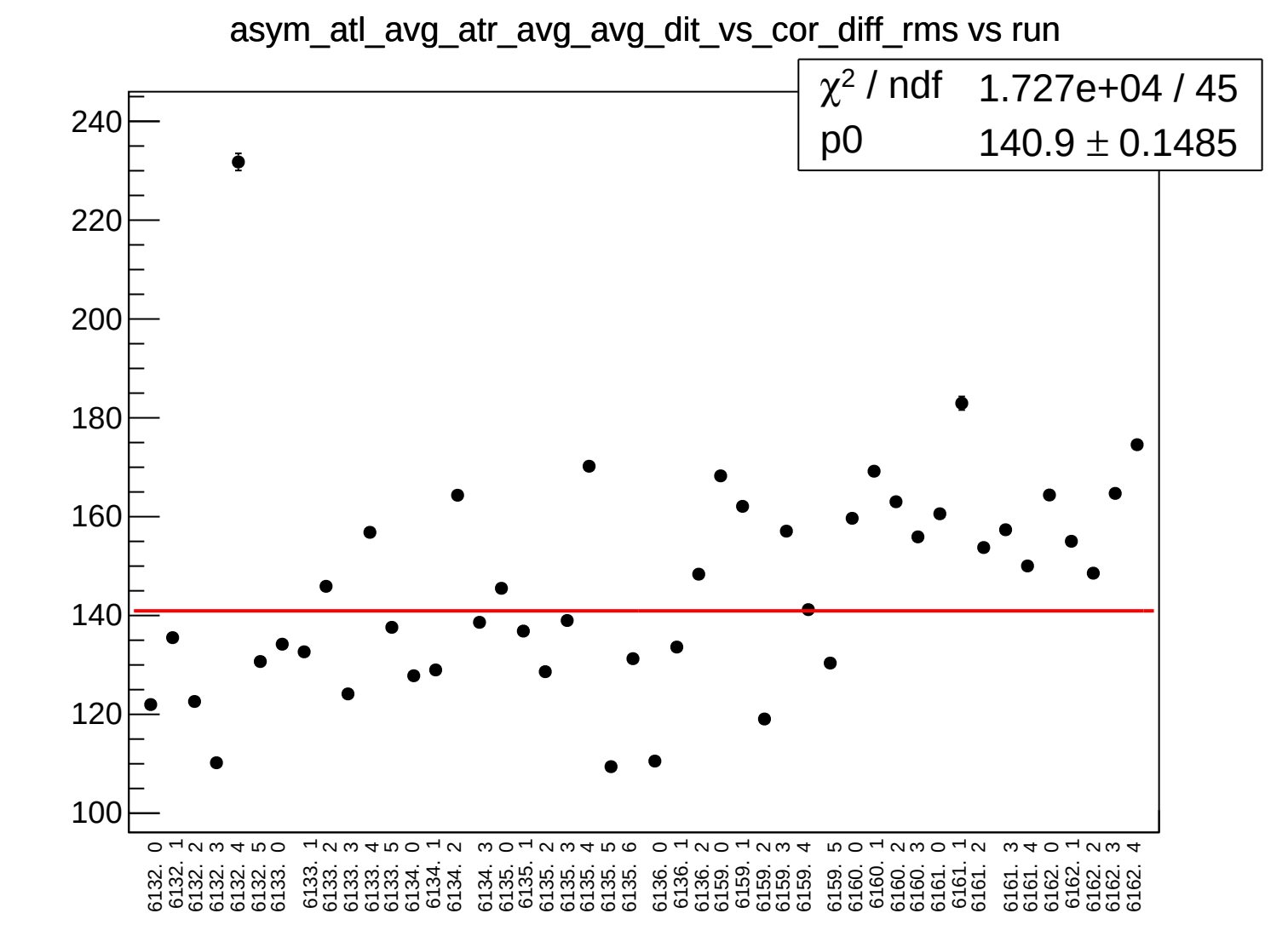

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 49.13 / 45
p0 −5275 ± 6576
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 159.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.03127
Std Dev 1.033
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

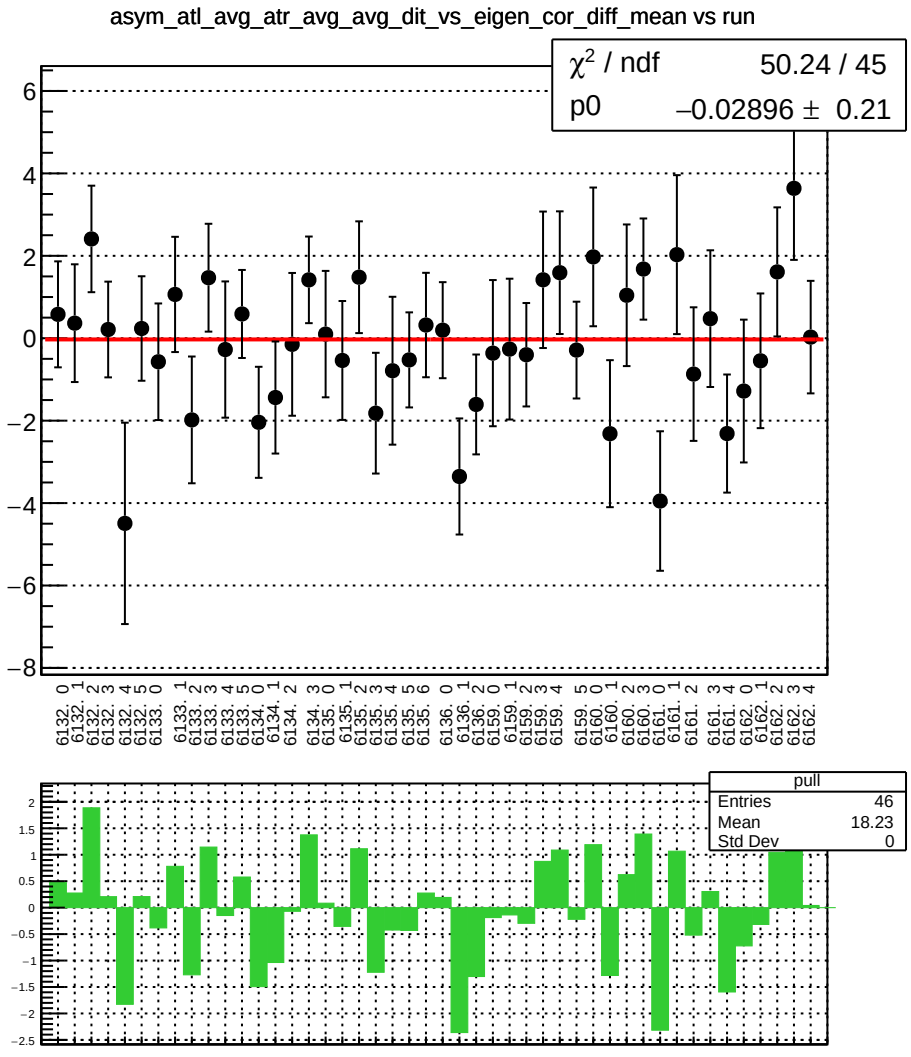

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3.284e+04 / 45
p0 4375 ± 4.65
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

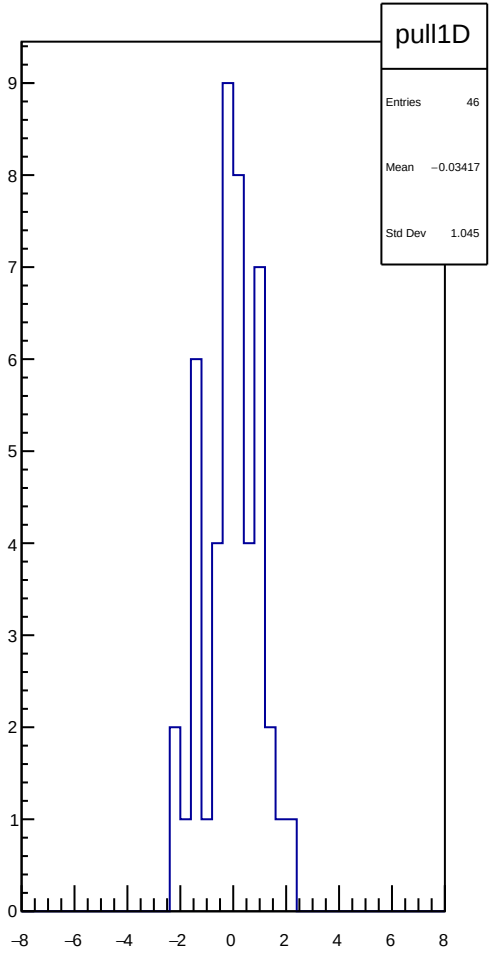

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 61.89 / 45
p0 −2.482e−13 ± 5.872e−13
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 12.88
Std Dev 16.93
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.1949
Std Dev 1.143
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

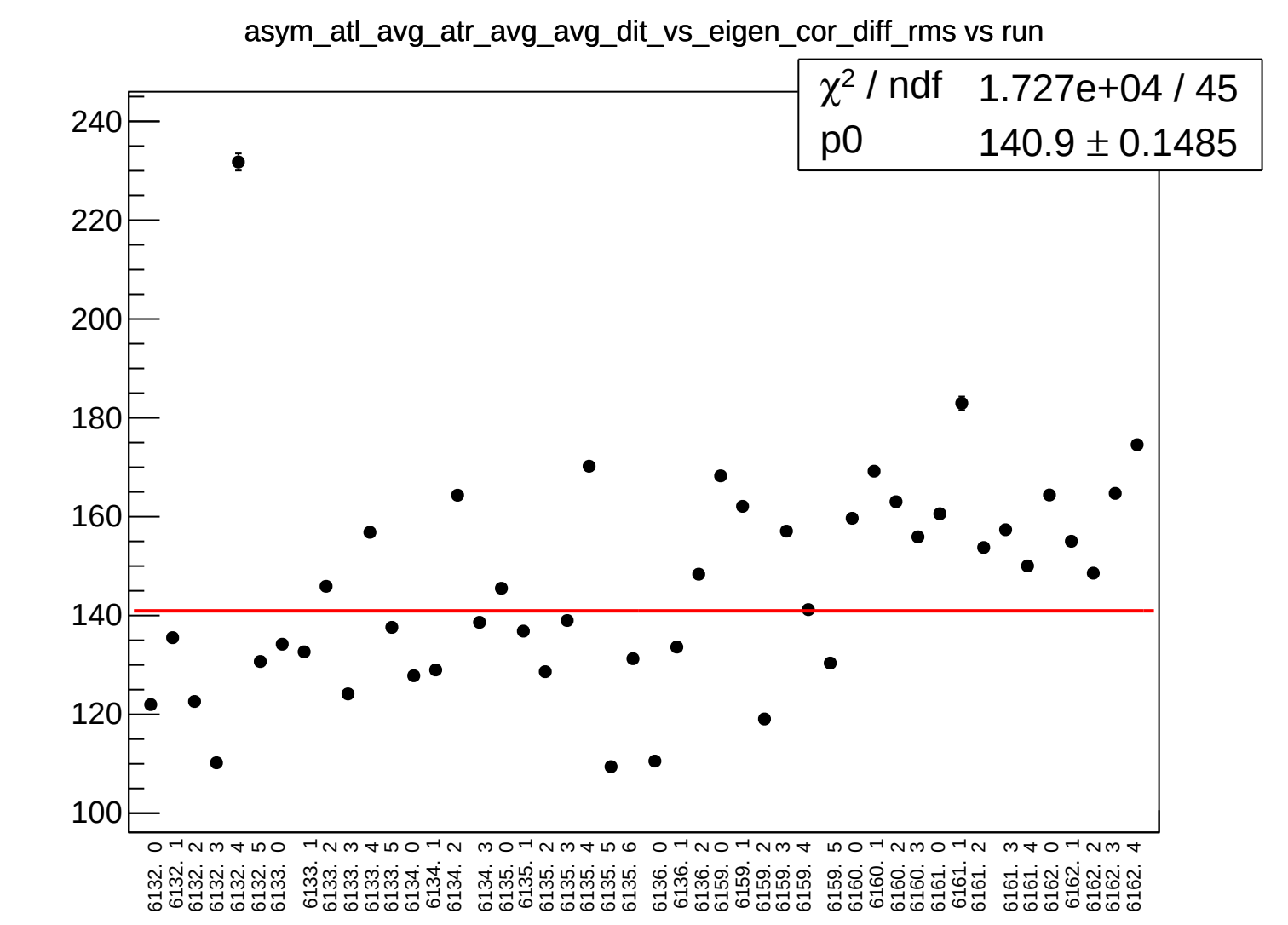

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.377e+05 / 45
p0 2.562e−10 ± 4.152e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

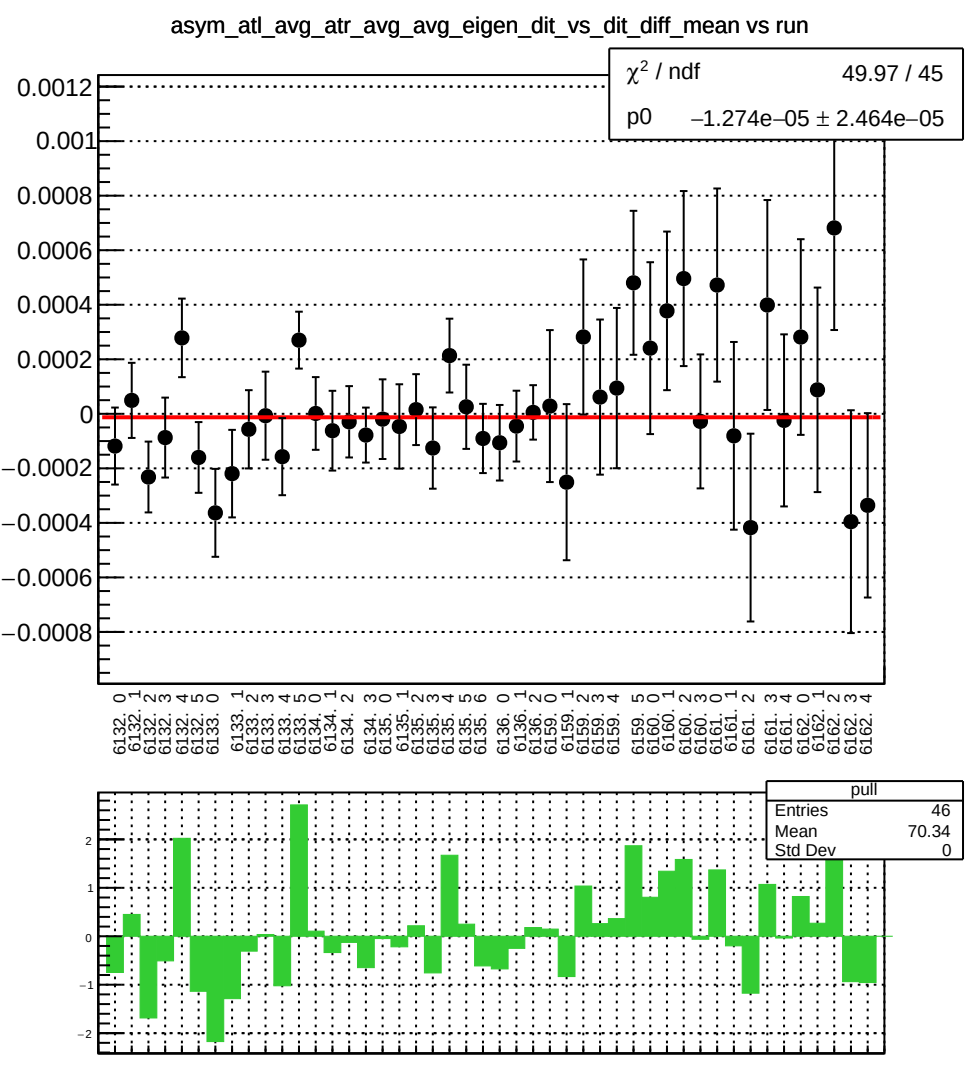

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 50.24 / 45
p0 −0.02896 ± 0.21
pull
Entries 46
Mean 18.23
Std Dev 0
pull1D
Entries 46
Mean −0.03417
Std Dev 1.045

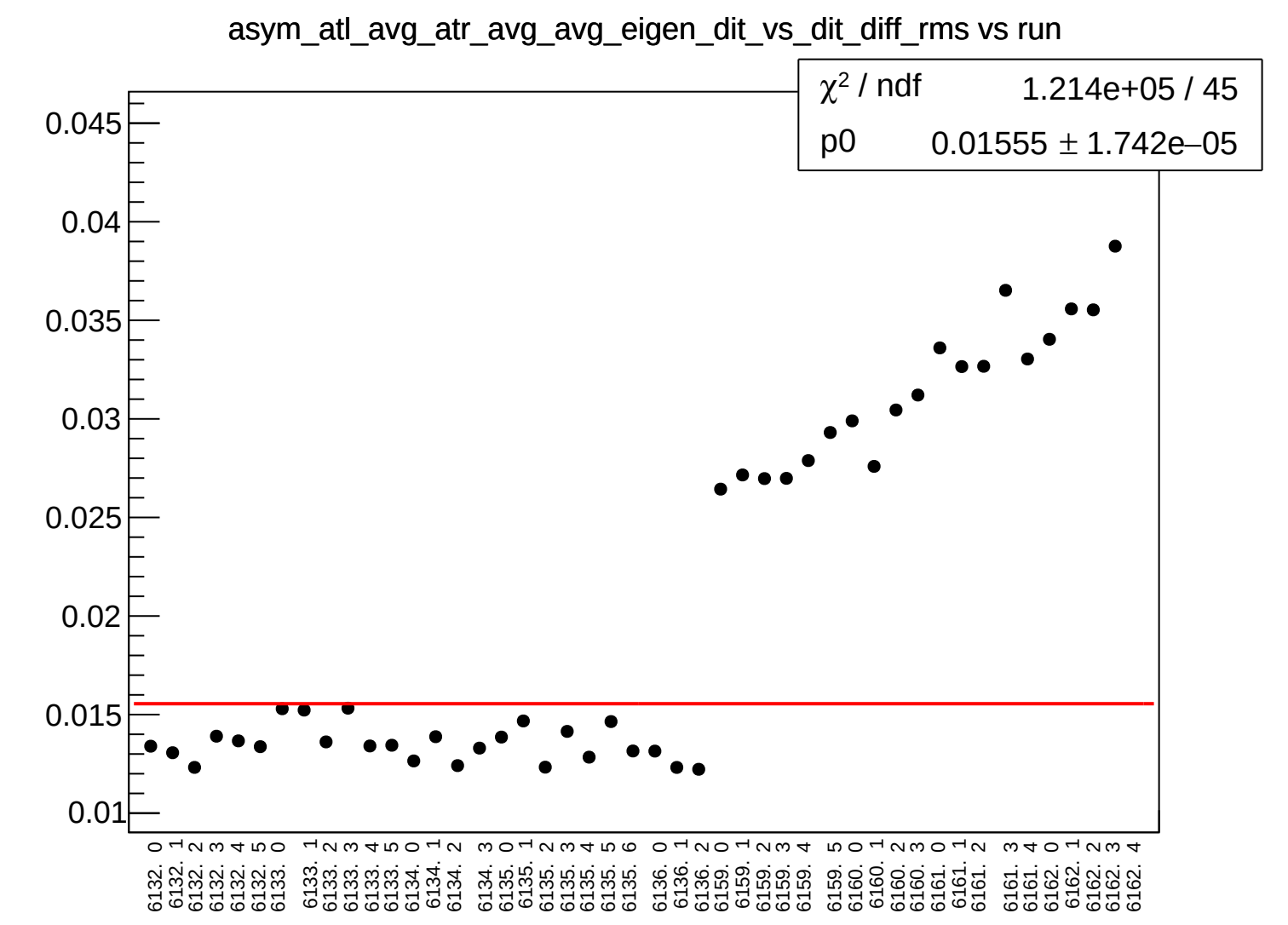

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.727e+04 / 45
p0 140.9 ± 0.1485
240
220
200
180
160
140
120
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

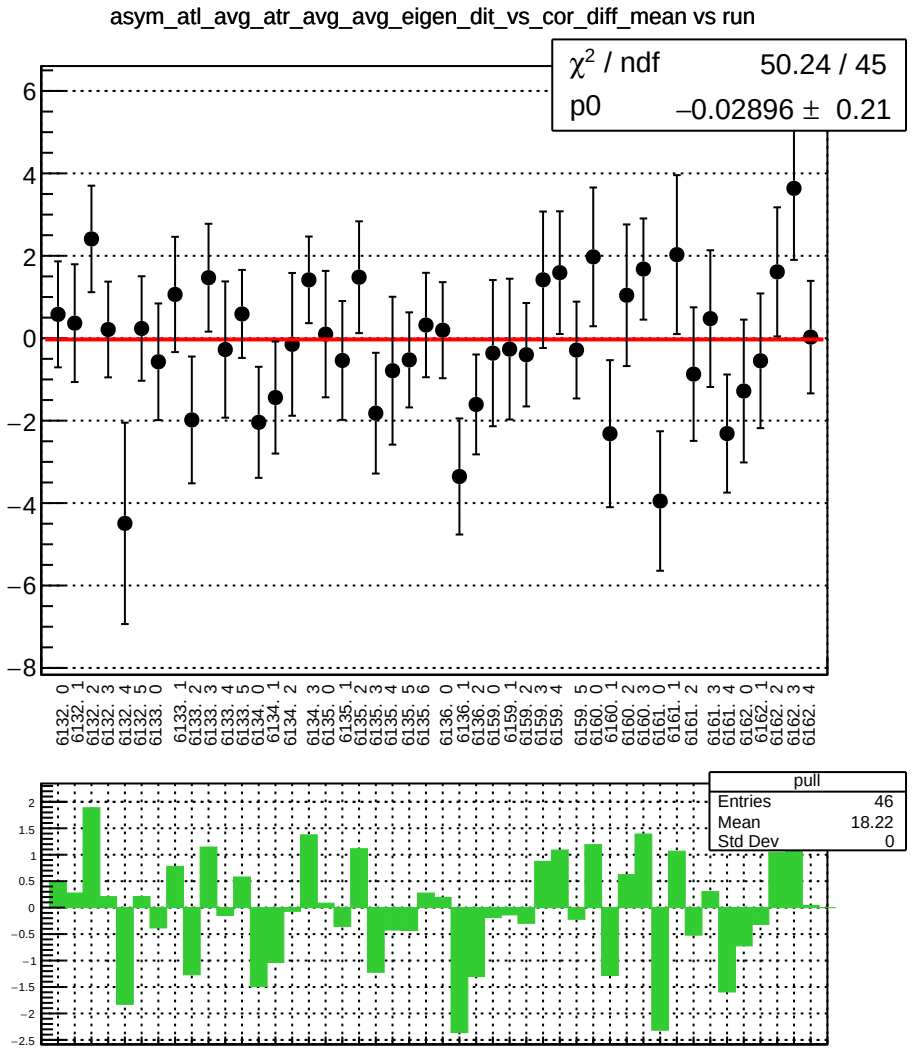

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.24 / 45
p0 −0.02896 ± 0.21
pull
Entries 46
Mean 18.23
Std Dev 0

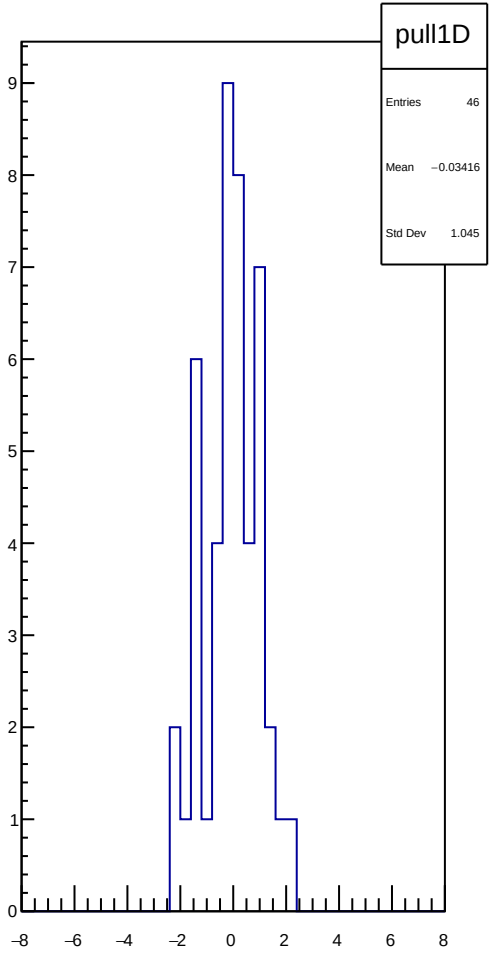

pull1D
Entries 46
Mean −0.03417
Std Dev 1.045

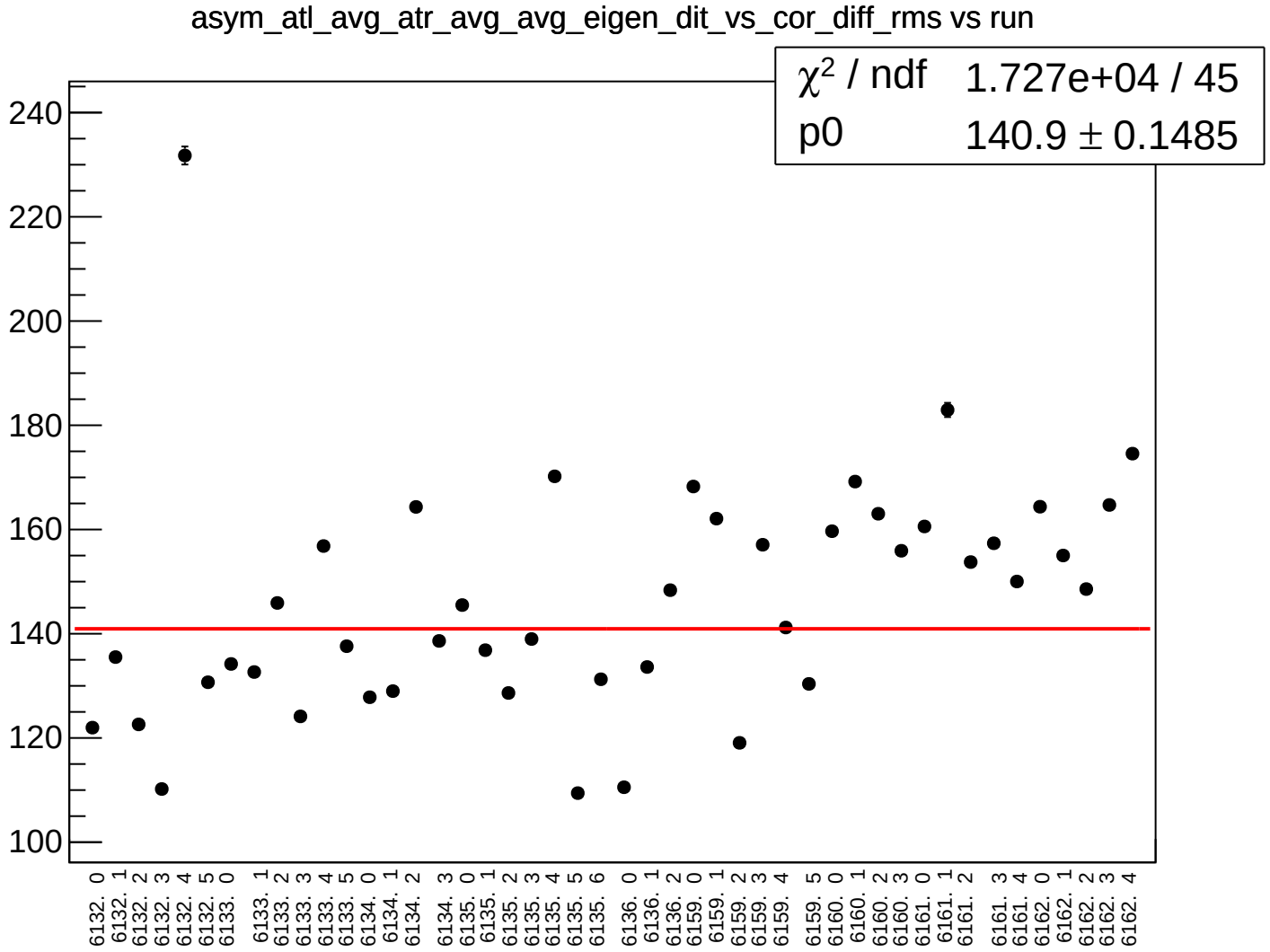

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.727e+04 / 45
p0 140.9 ± 0.1485
240
220
200
180
160
140
120
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 49.97 / 45
p0 −1.274e−05 ± 2.464e−05
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 70.34
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.08053
Std Dev 1.039
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.214e+05 / 45
p0 0.01555 ± 1.742e−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
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 50.24 / 45
p0 −0.02896 ± 0.21
pull
Entries 46
Mean 18.22
Std Dev 0


pull1D
Entries 46
Mean −0.03416
Std Dev 1.045


asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.727e+04 / 45
p0 140.9 ± 0.1485
240
220
200
180
160
140
120
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
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6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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6161. 2
6161. 3
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6162. 0
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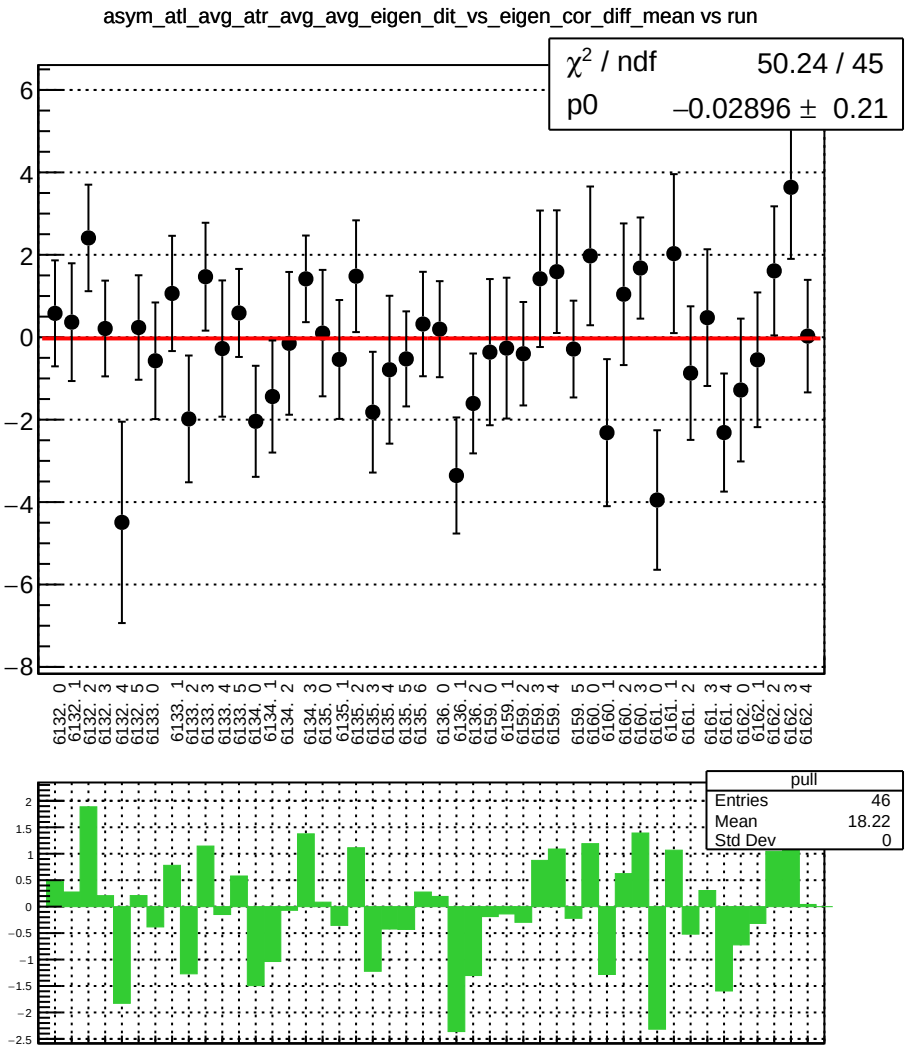
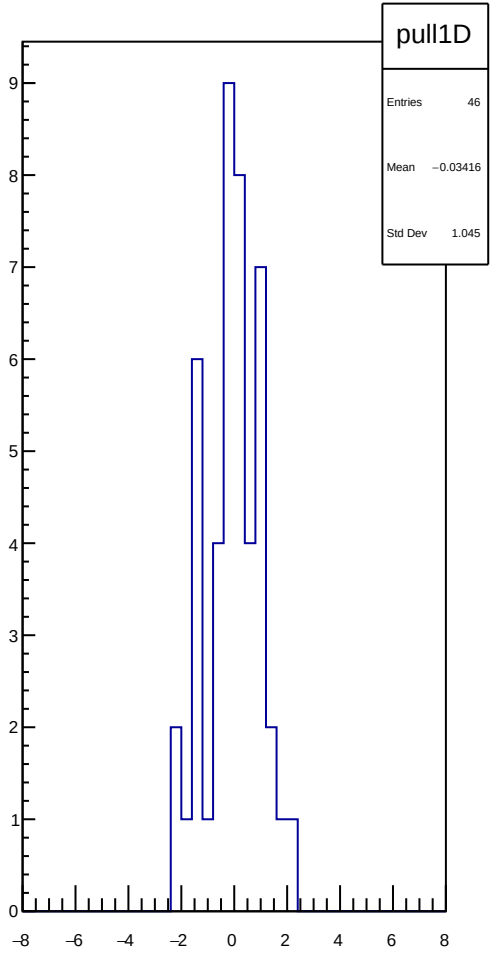
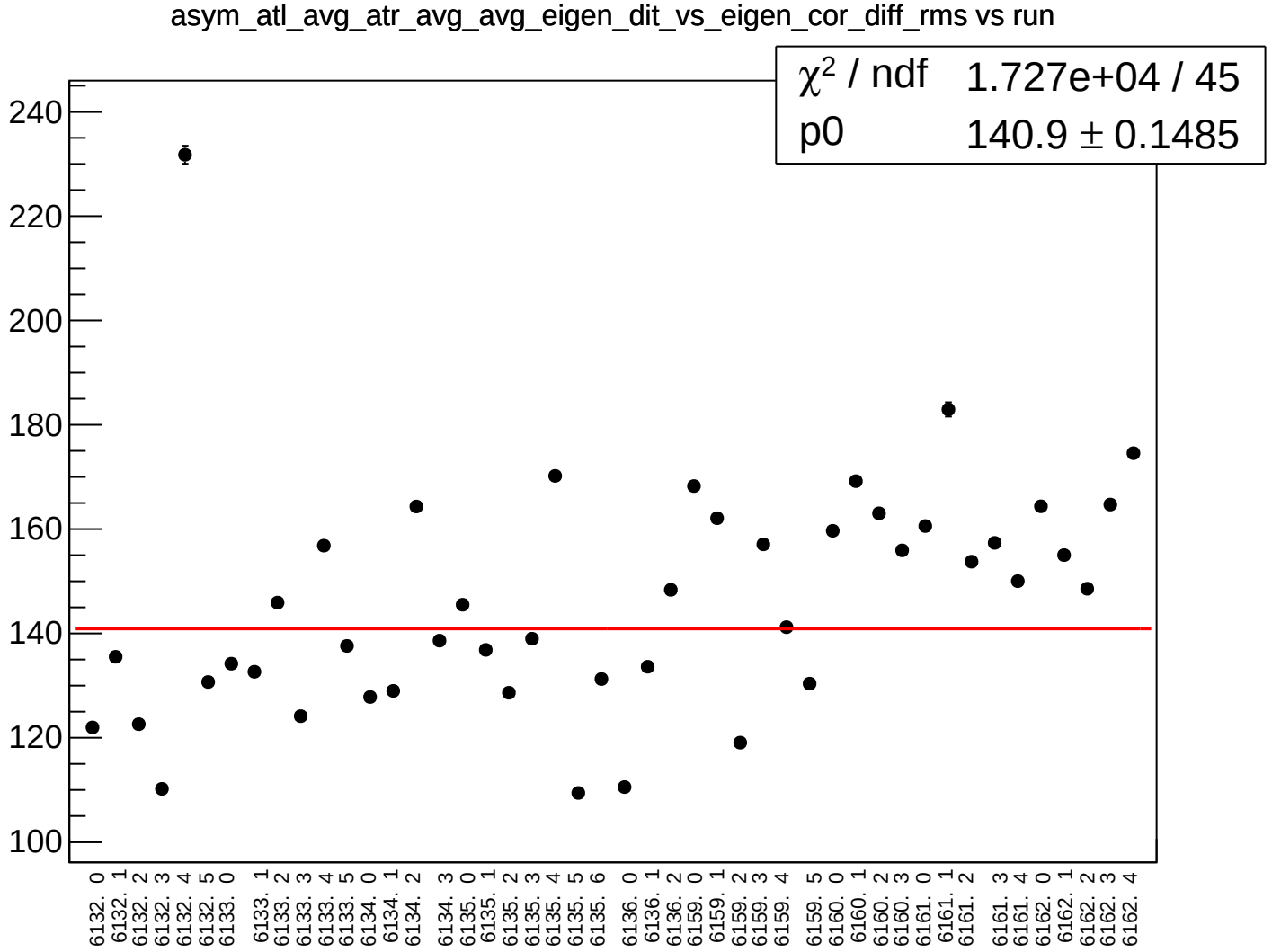
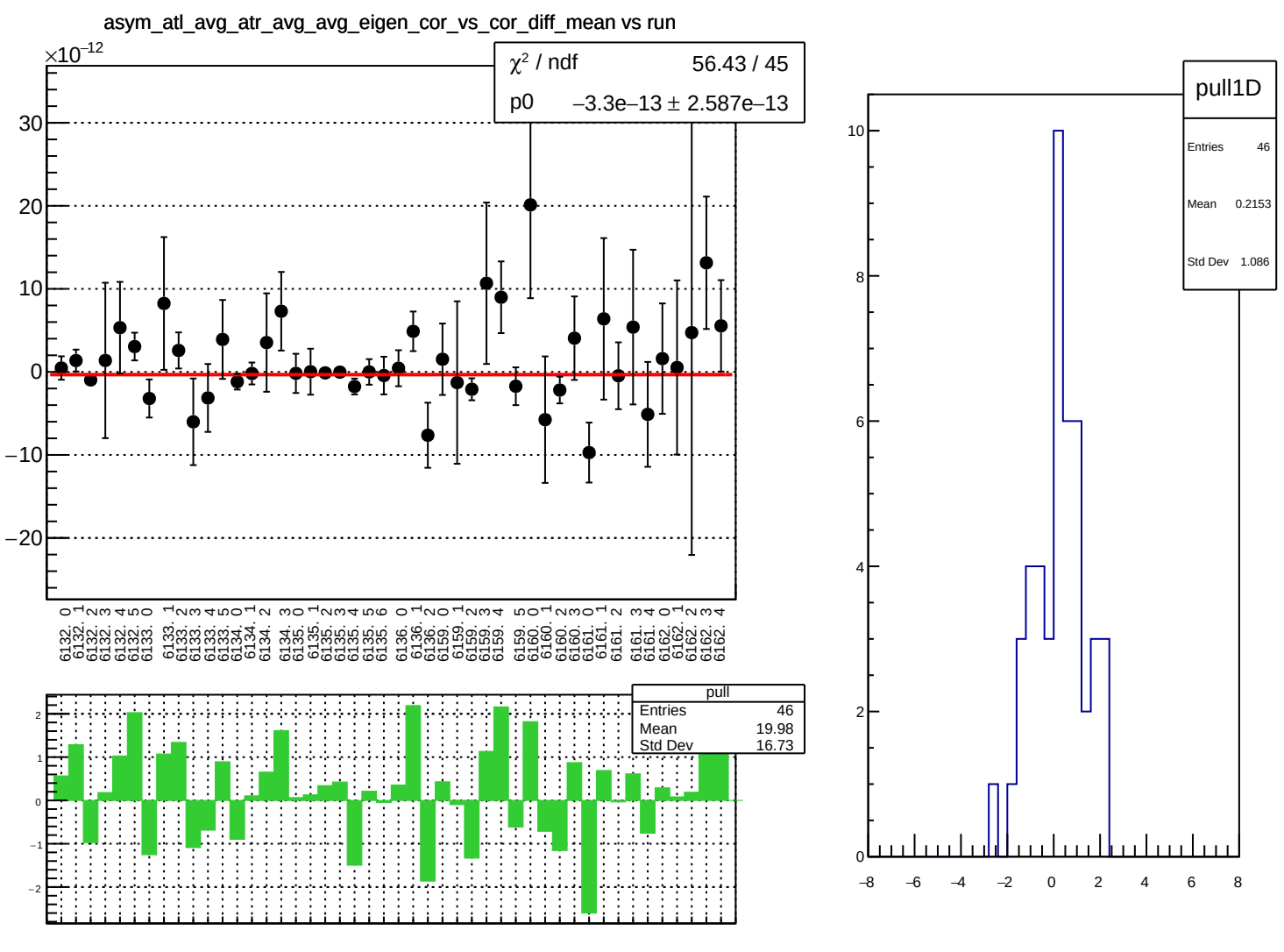
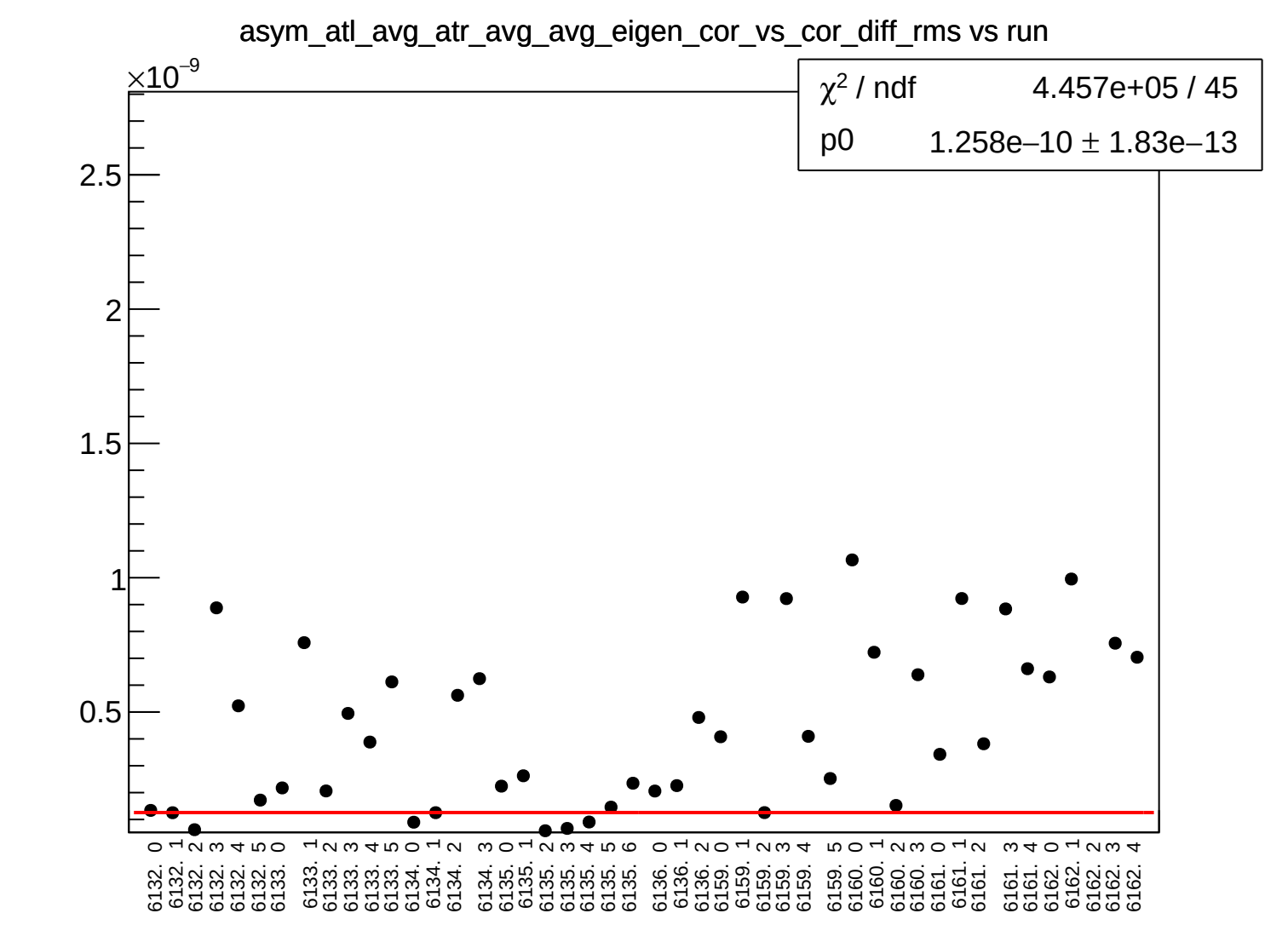
6162. 4

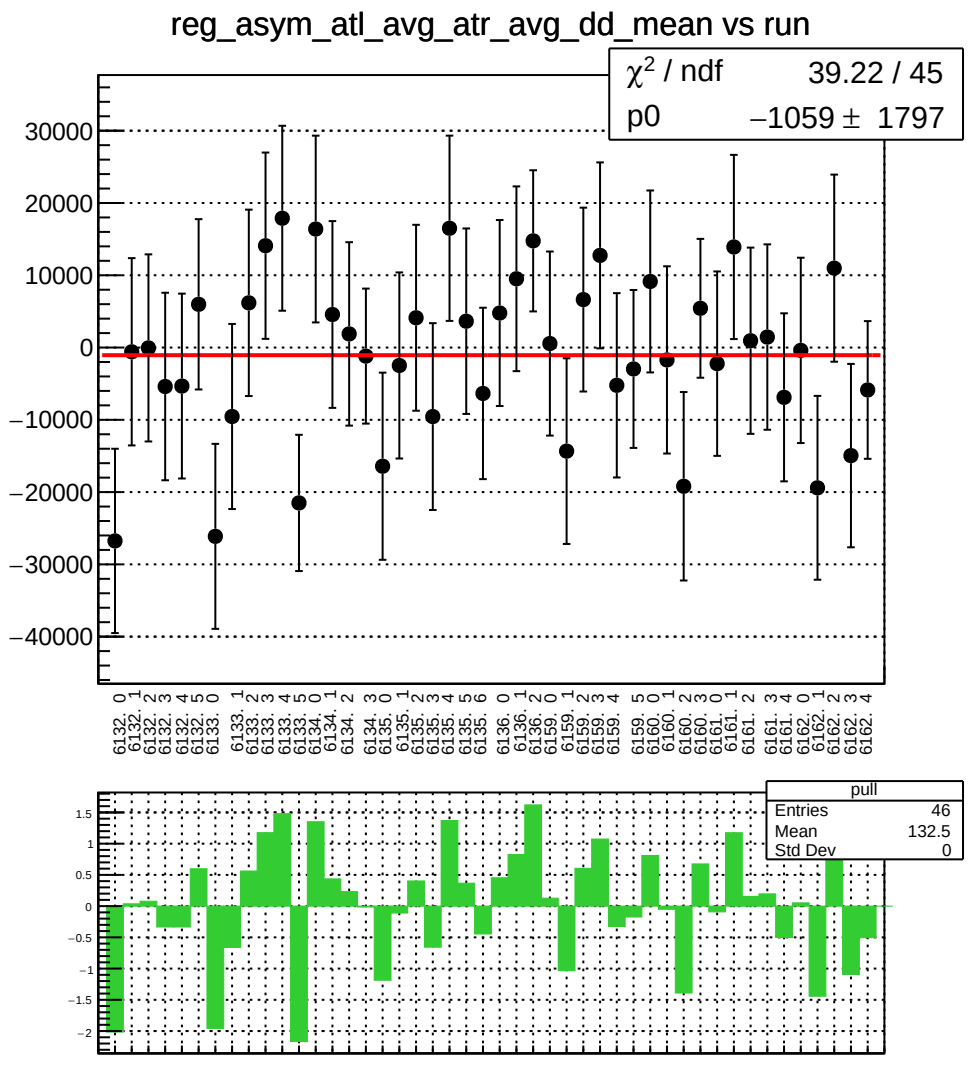

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.24 / 45
p0 −0.02896 ± 0.21
pull
Entries 46
Mean 18.22
Std Dev 0

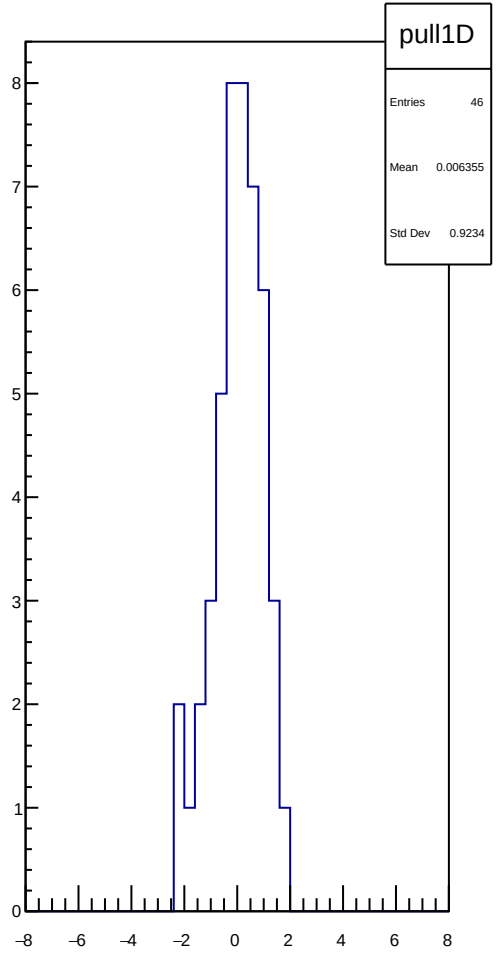

pull1D
Entries 46
Mean −0.03416
Std Dev 1.045

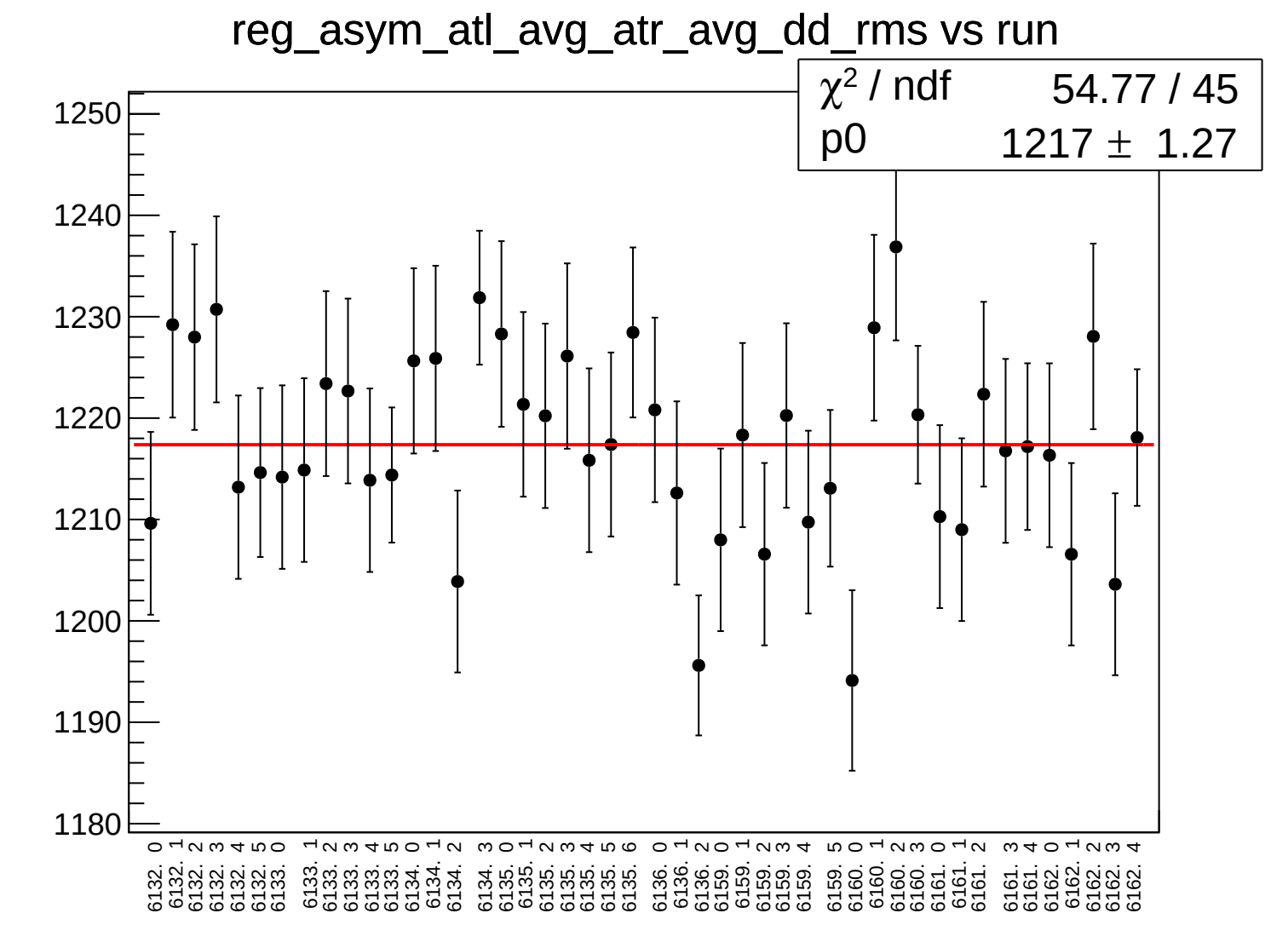

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.727e+04 / 45
p0 140.9 ± 0.1485
240
220
200
180
160
140
120
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 56.43 / 45
p0 −3.3e−13 ± 2.587e−13
30
20
10
0
−10
−20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 19.98
Std Dev 16.73
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.2153
Std Dev 1.086
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.457e+05 / 45
p0 1.258e−10 ± 1.83e−13
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 39.22 / 45
p0 −1059 ± 1797
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 132.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.006355
Std Dev 0.9234
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 54.77 / 45
p0 1217 ± 1.27
1250
1240
1230
1220
1210
1200
1190
1180
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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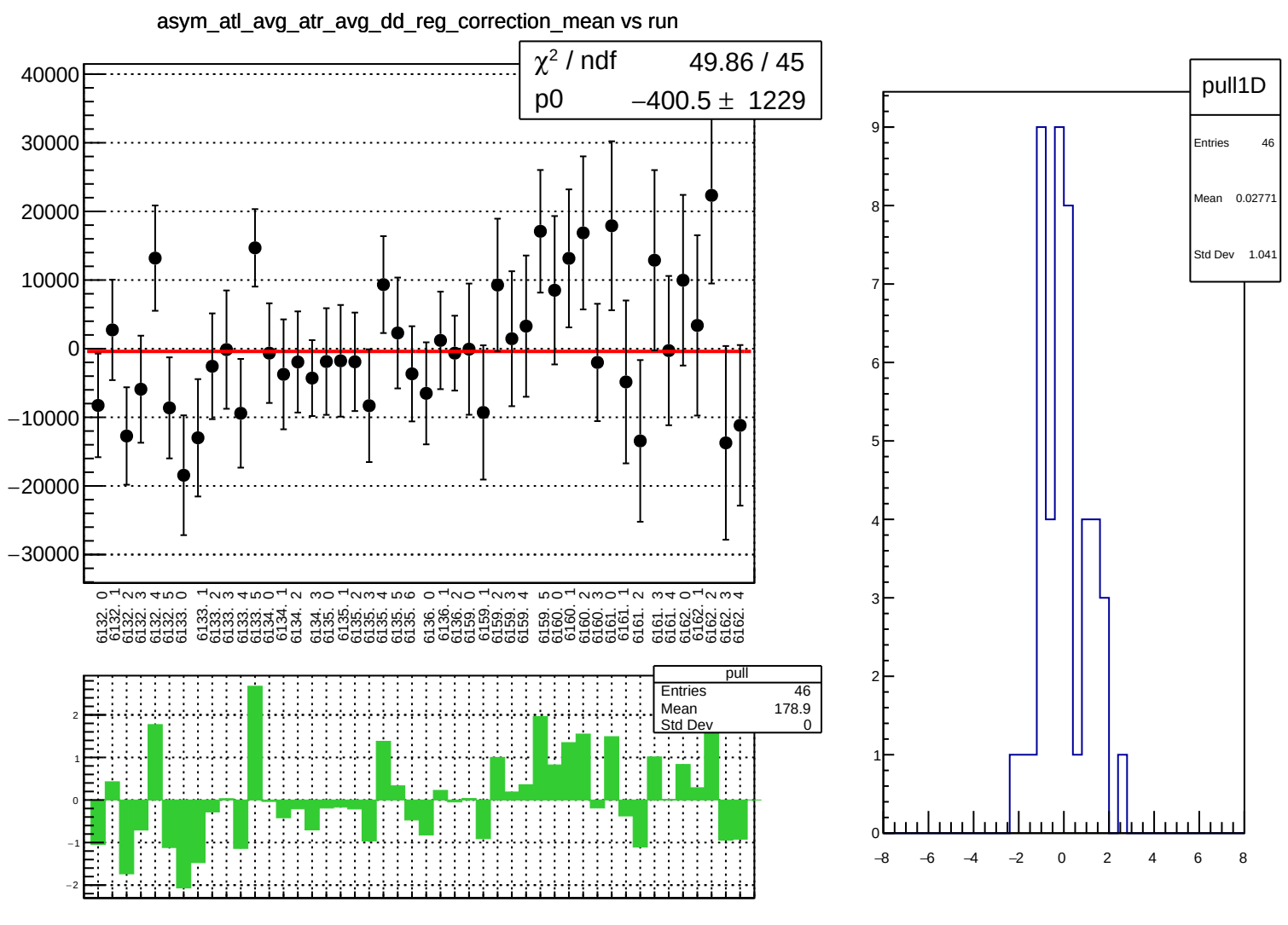
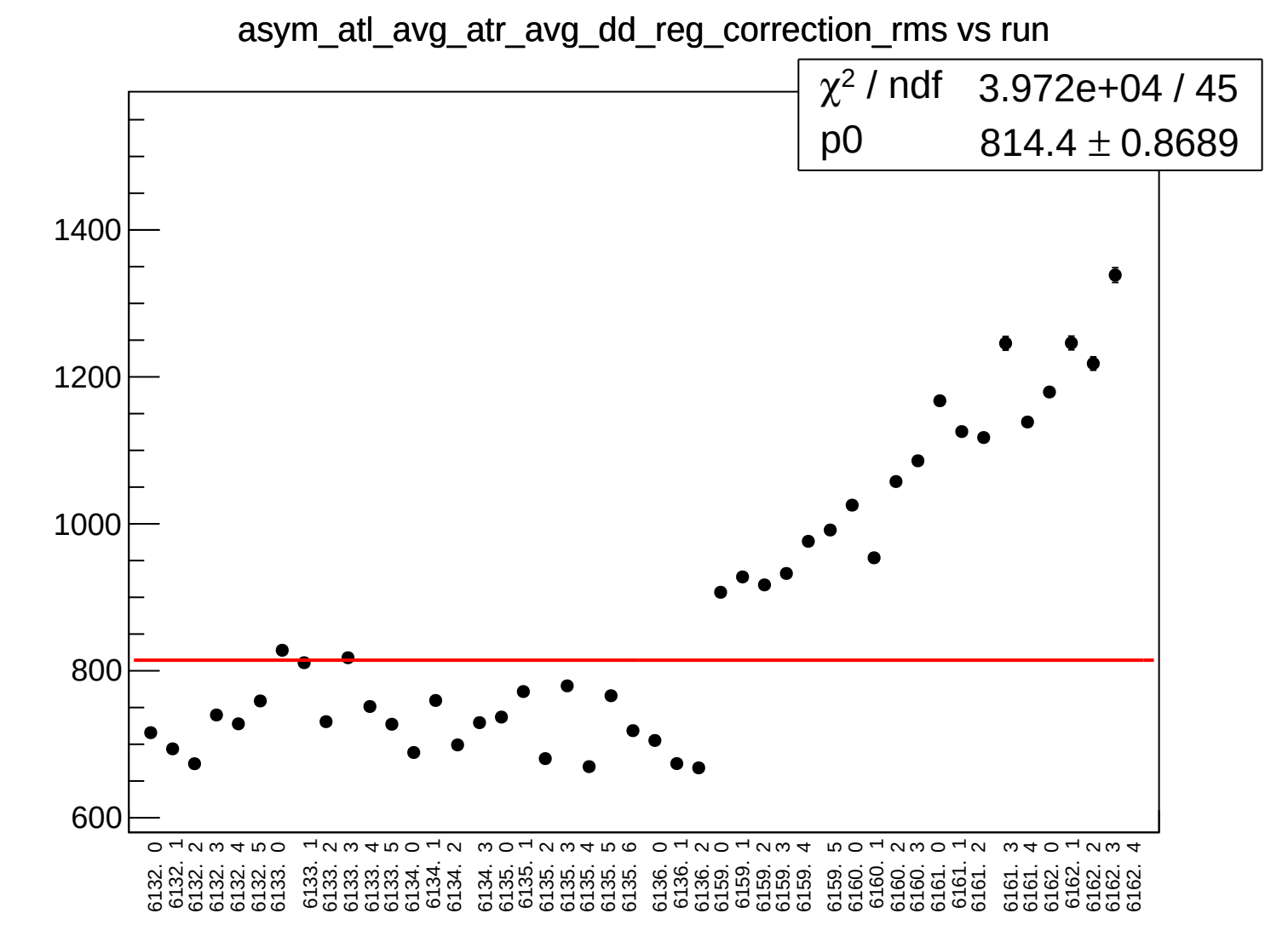
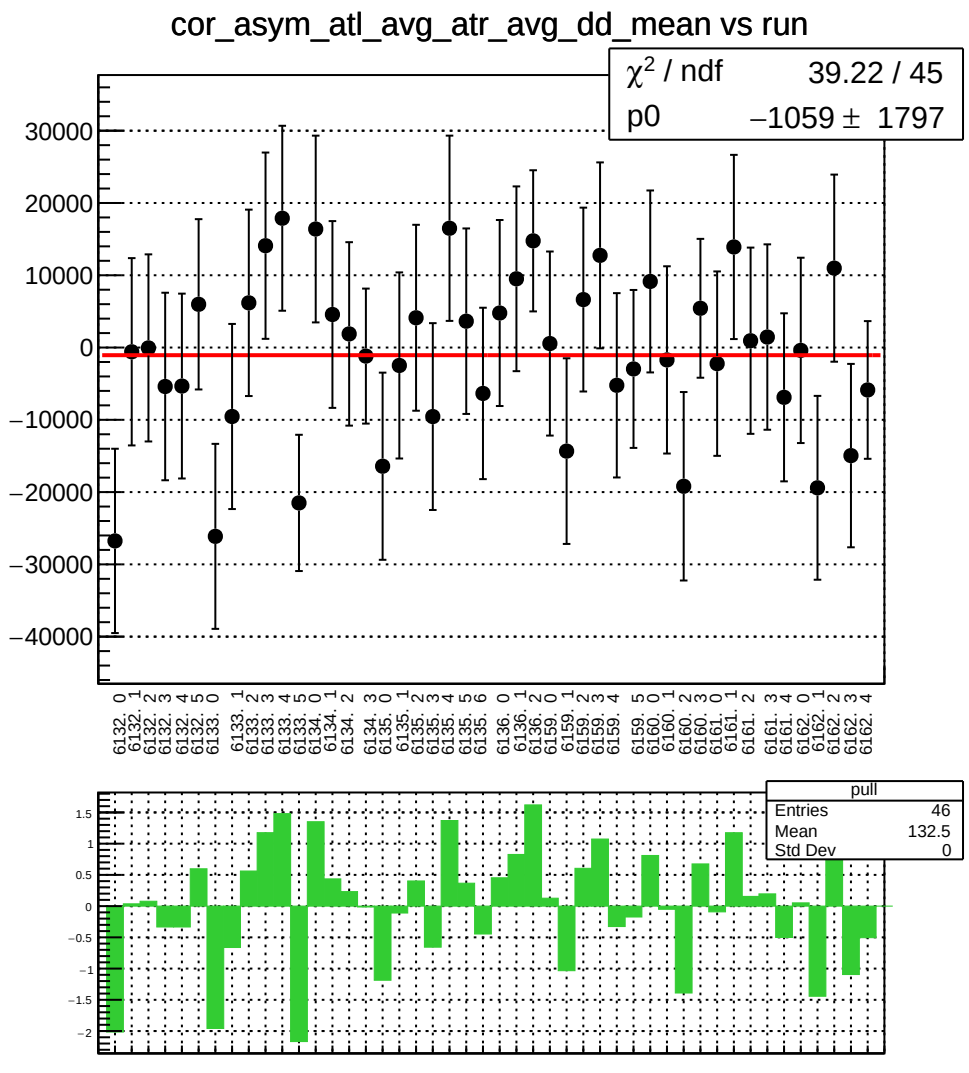
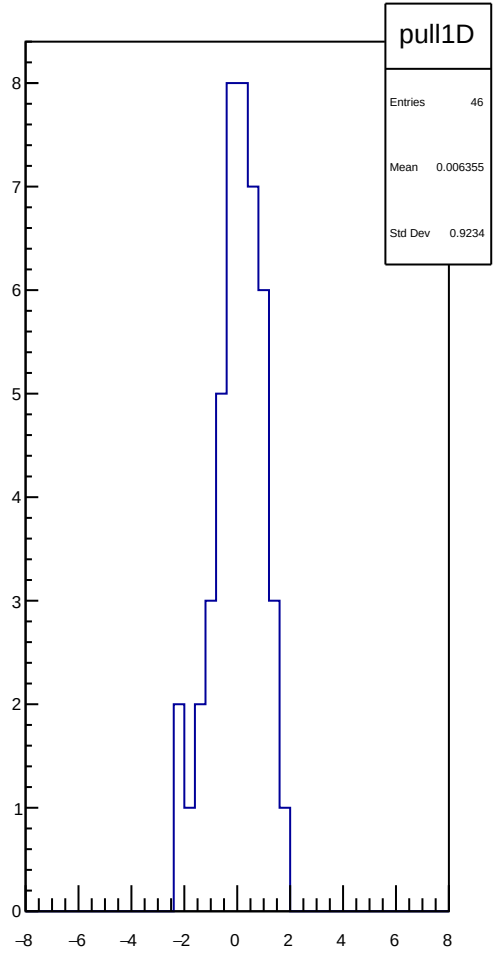
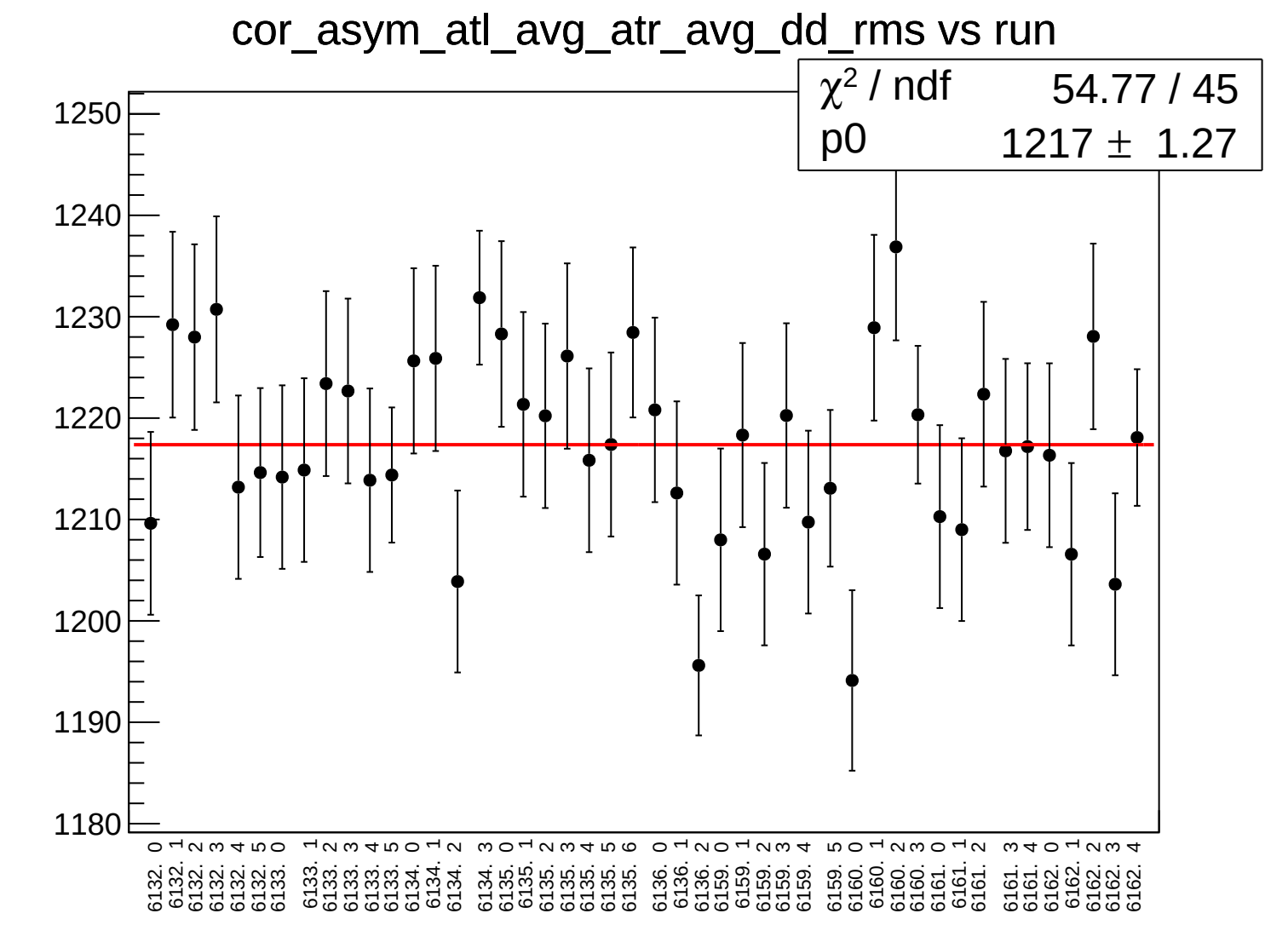
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 49.86 / 45
p0 −400.5 ± 1229
40000
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 178.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02771
Std Dev 1.041
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 3.972e+04 / 45
p0 814.4 ± 0.8689
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 39.22 / 45
p0 −1059 ± 1797
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 132.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.006355
Std Dev 0.9234
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 54.77 / 45
p0 1217 ± 1.27
1250
1240
1230
1220
1210
1200
1190
1180
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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6162. 0
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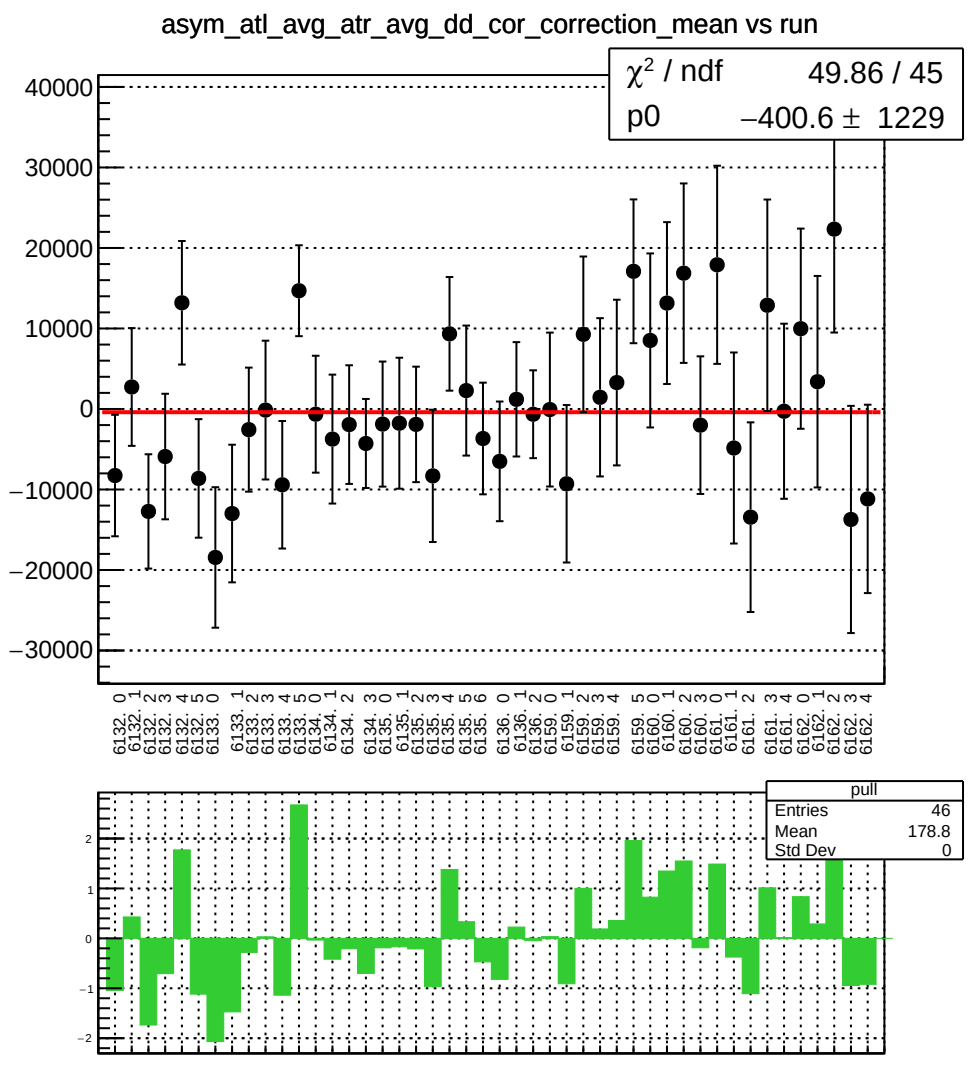
6162. 4


asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 49.86 / 45
p0 −400.6 ± 1229
40000
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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6134. 0
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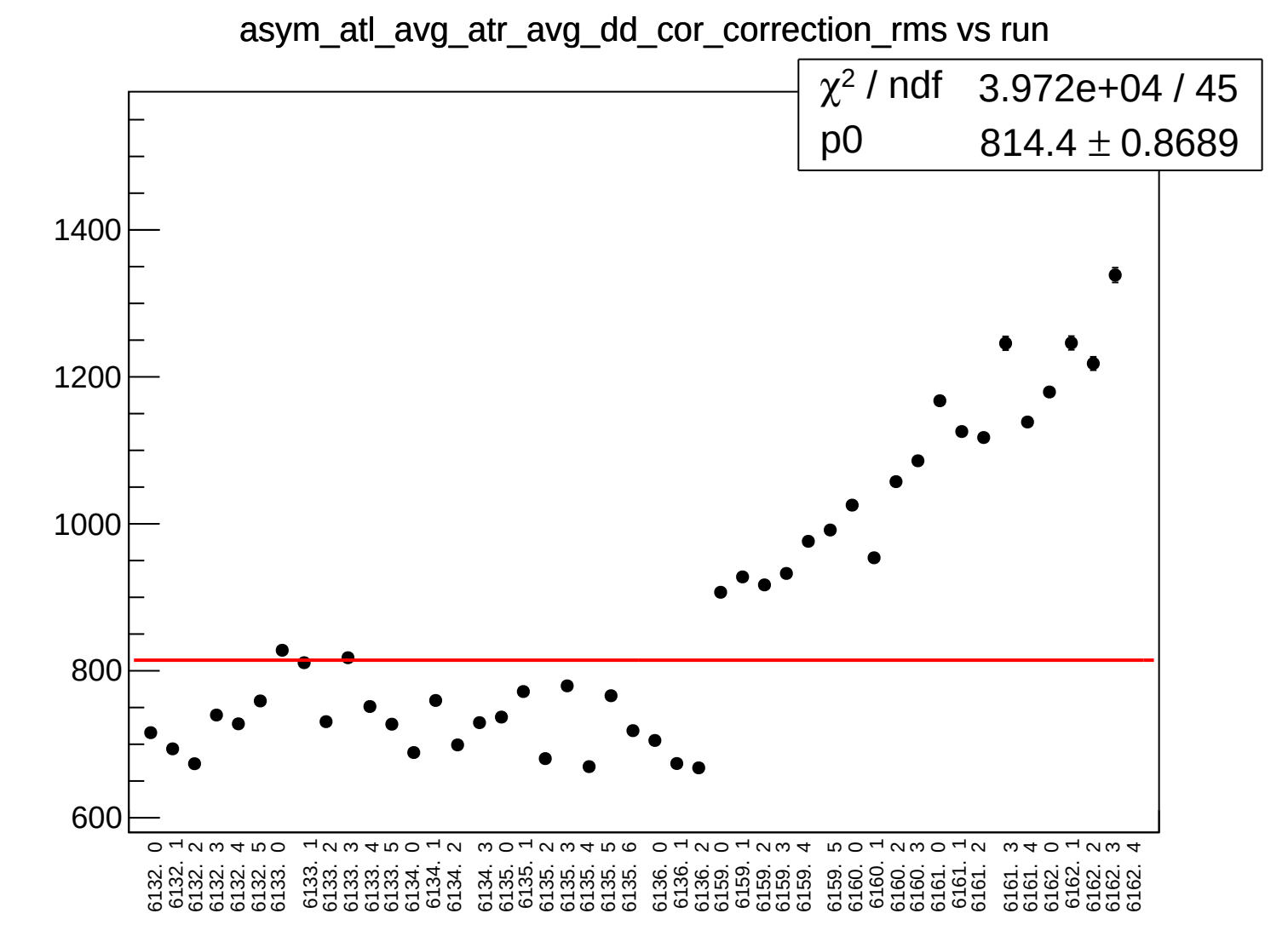
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 178.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02772
Std Dev 1.041
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 3.972e+04 / 45
p0 814.4 ± 0.8689
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 1
6135. 2
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6136. 0
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6136. 2
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6159. 2
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6159. 5
6160. 0
6160. 1
6160. 2
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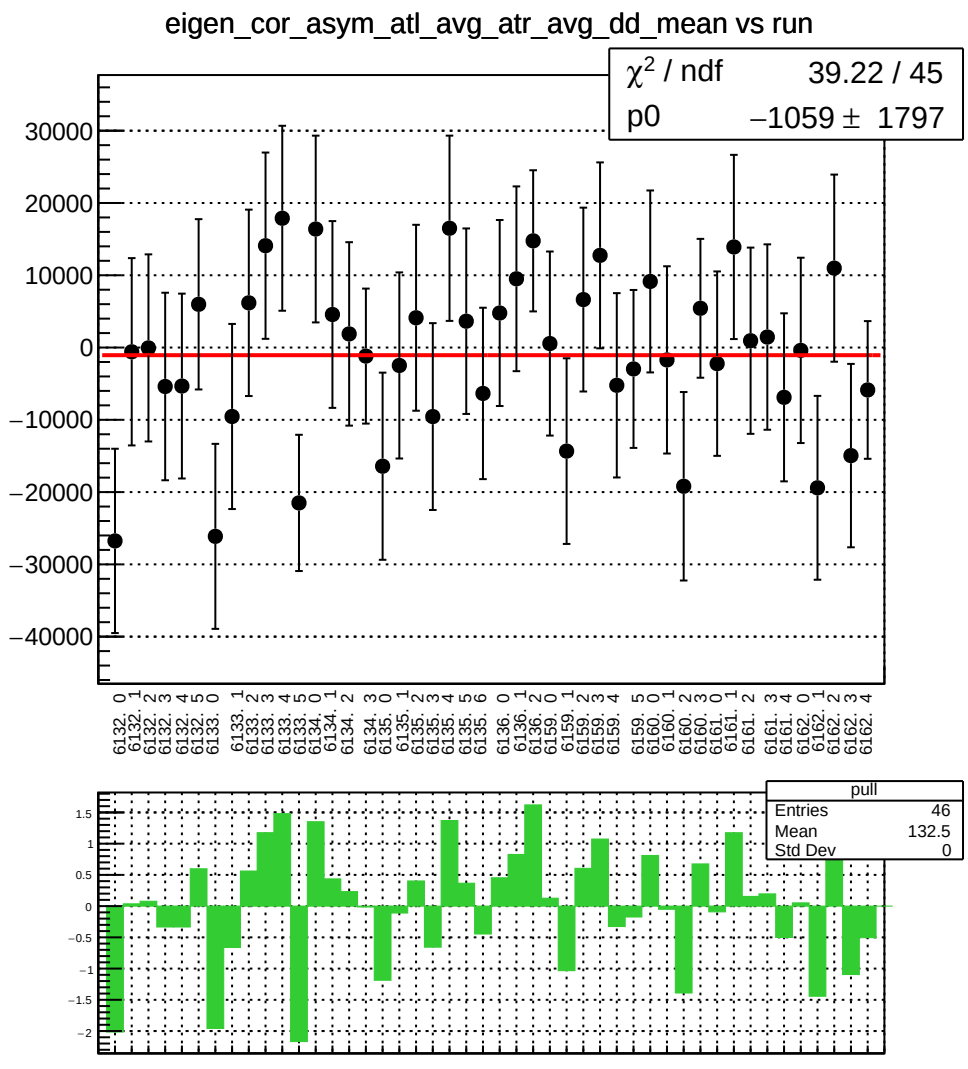
6162. 4


eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 39.22 / 45
p0 −1059 ± 1797
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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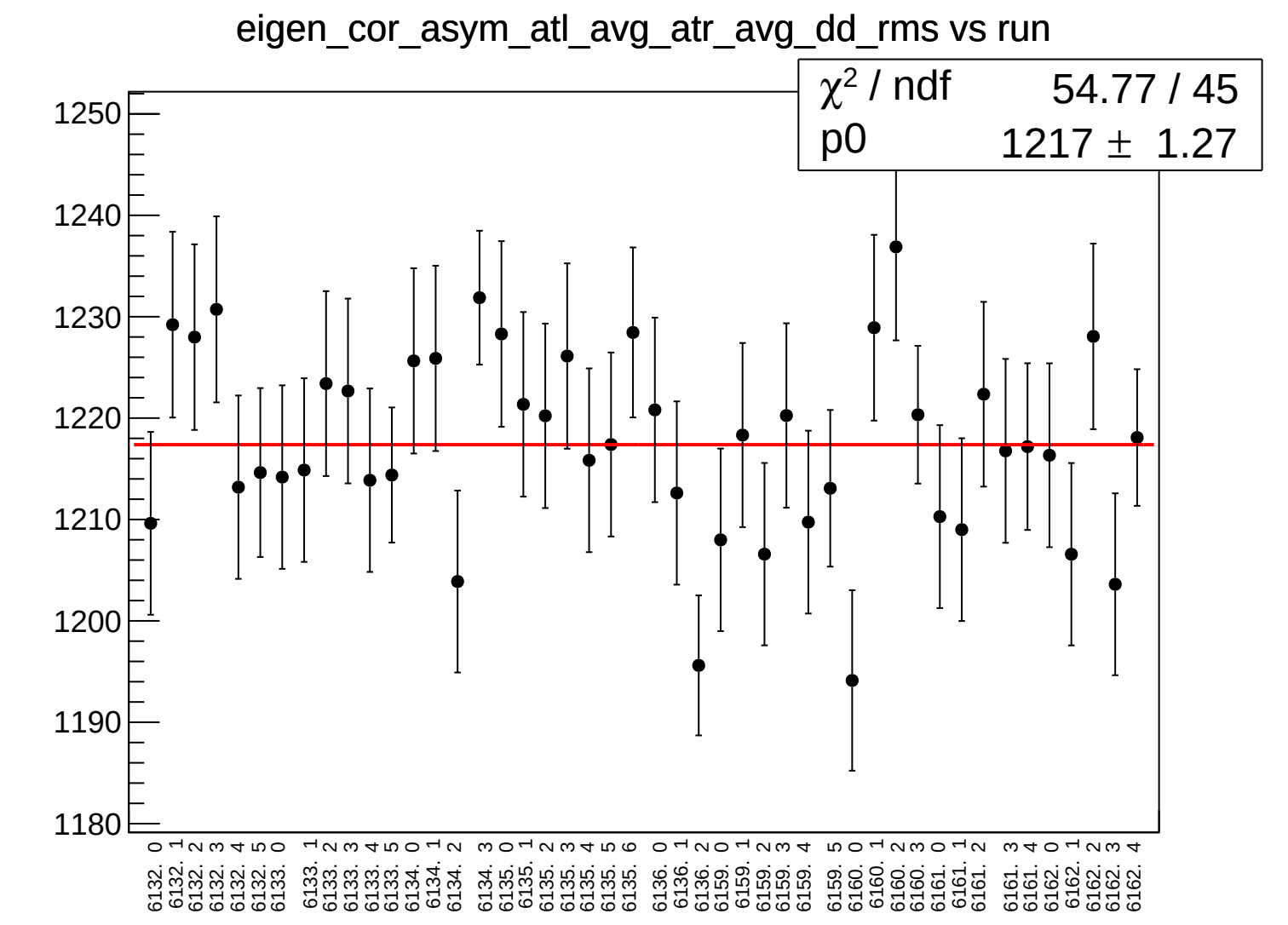
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 132.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.006355
Std Dev 0.9234
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 54.77 / 45
p0 1217 ± 1.27
1250
1240
1230
1220
1210
1200
1190
1180
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6134. 0
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6134. 2
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6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
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6135. 6
6136. 0
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6136. 2
6159. 0
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6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
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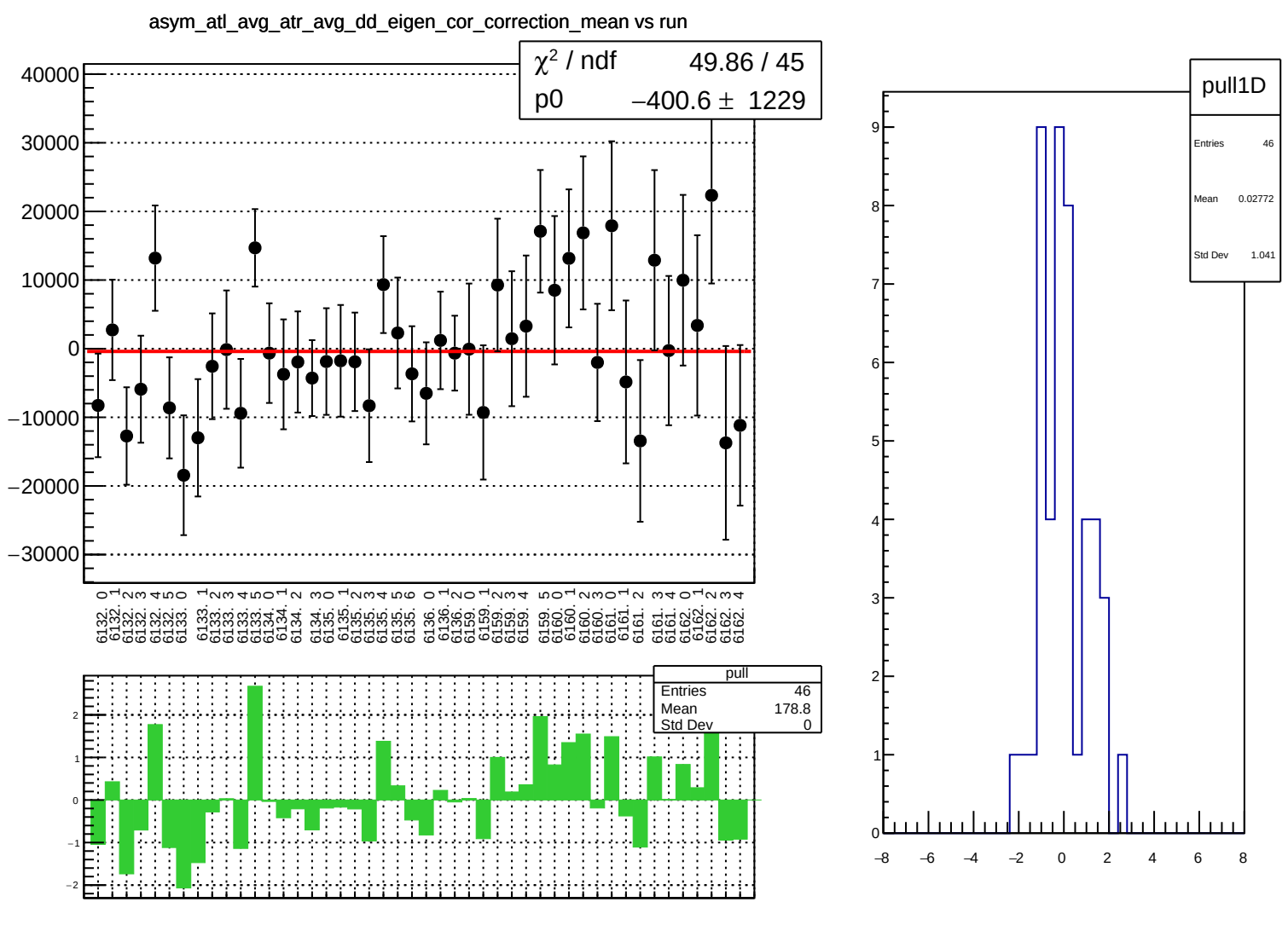
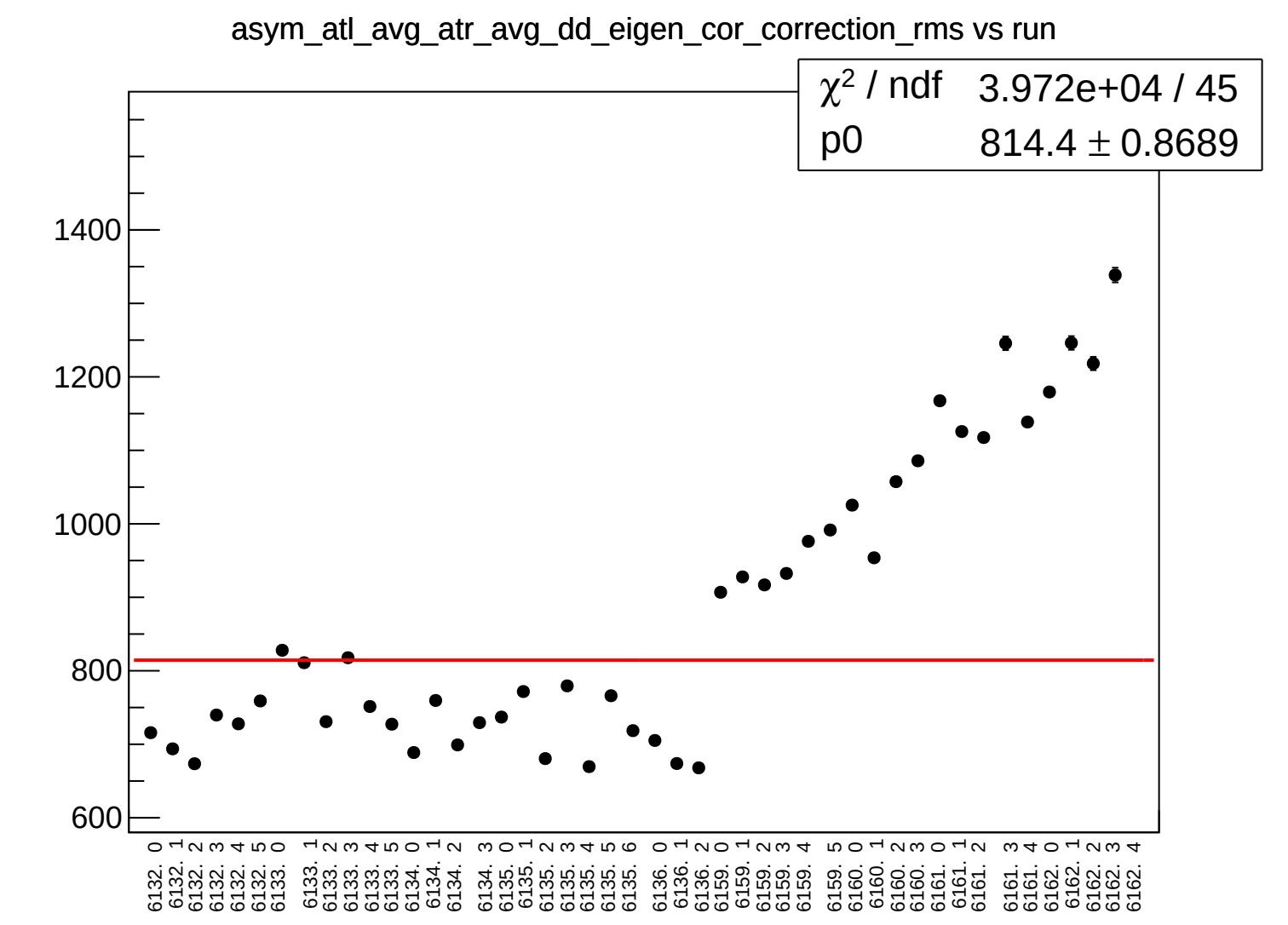
6162. 3
6162. 4


asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 49.86 / 45
p0 −400.6 ± 1229
pull
Entries 46
Mean 178.8
Std Dev 0
pull1D
Entries 46
Mean 0.02772
Std Dev 1.041


asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.972e+04 / 45
p0 814.4 ± 0.8689
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
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6132. 5
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6135. 6
6136. 0
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6136. 2
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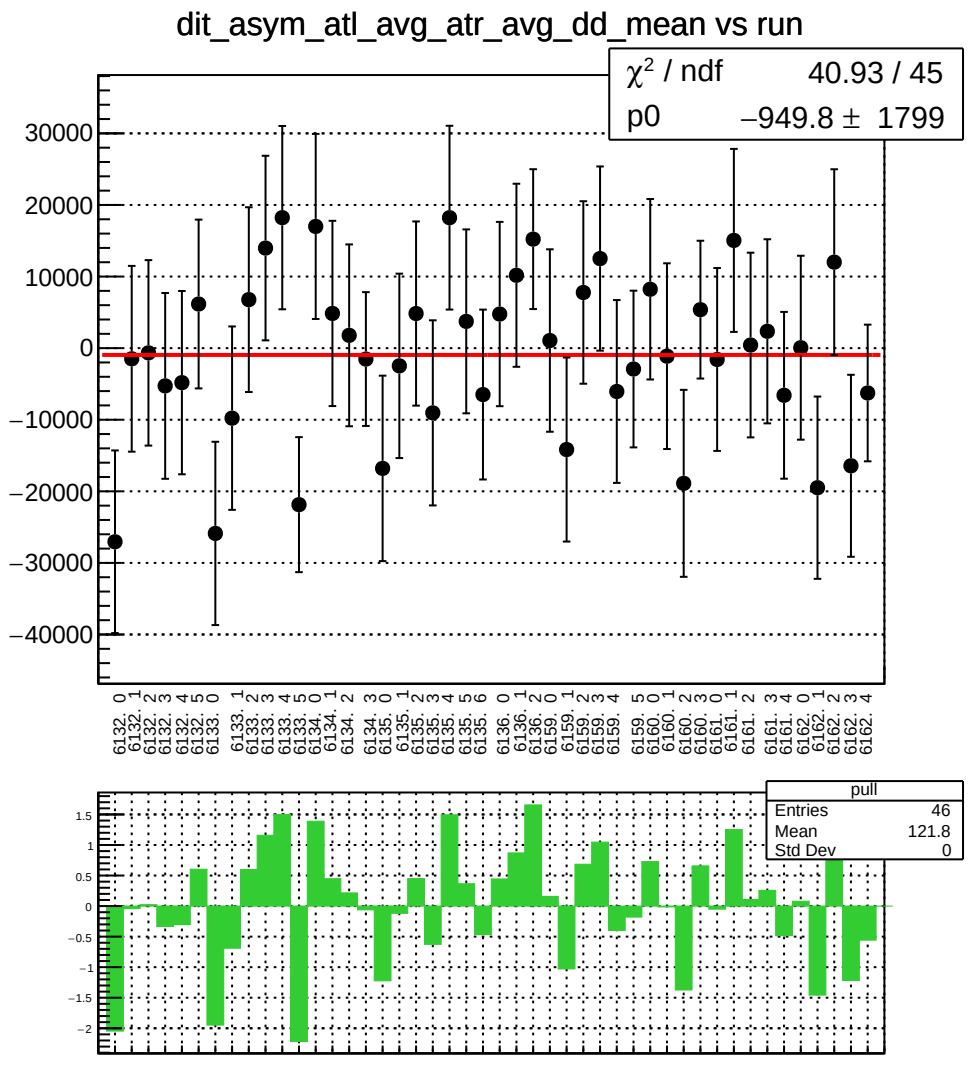
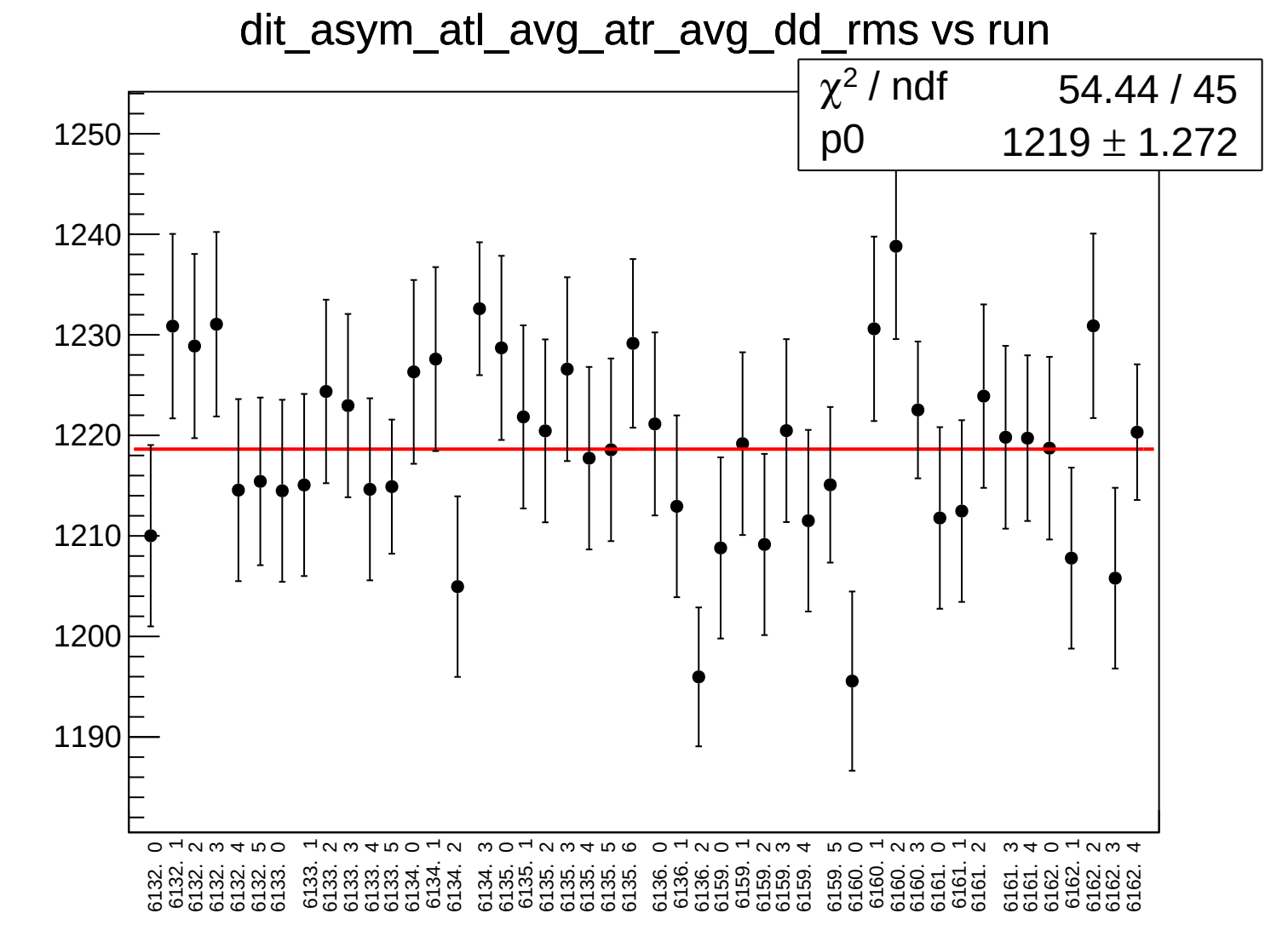
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 40.93 / 45
p0 −949.8 ± 1799
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 121.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.007555
Std Dev 0.9433
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 54.44 / 45
p0 1219 ± 1.272
1250
1240
1230
1220
1210
1200
1190
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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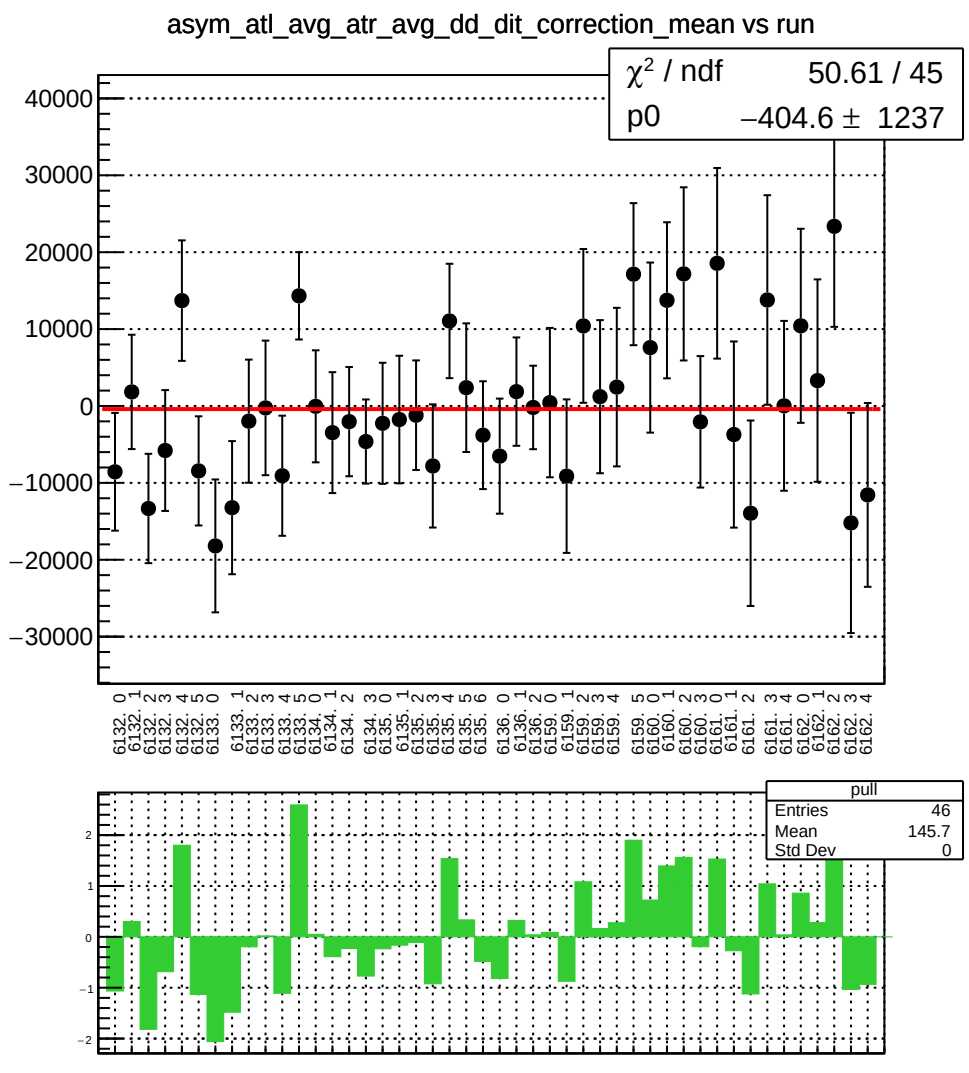
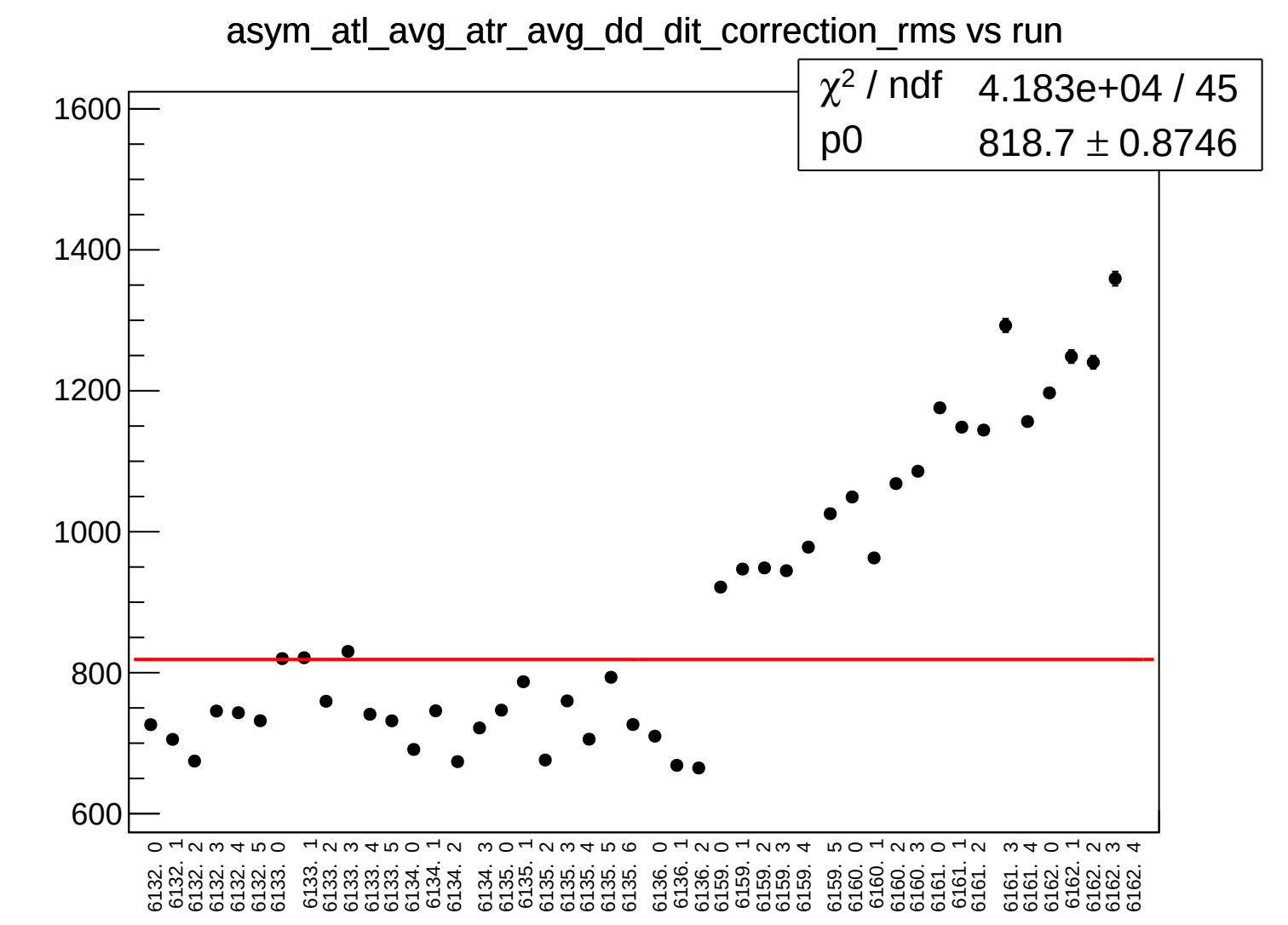
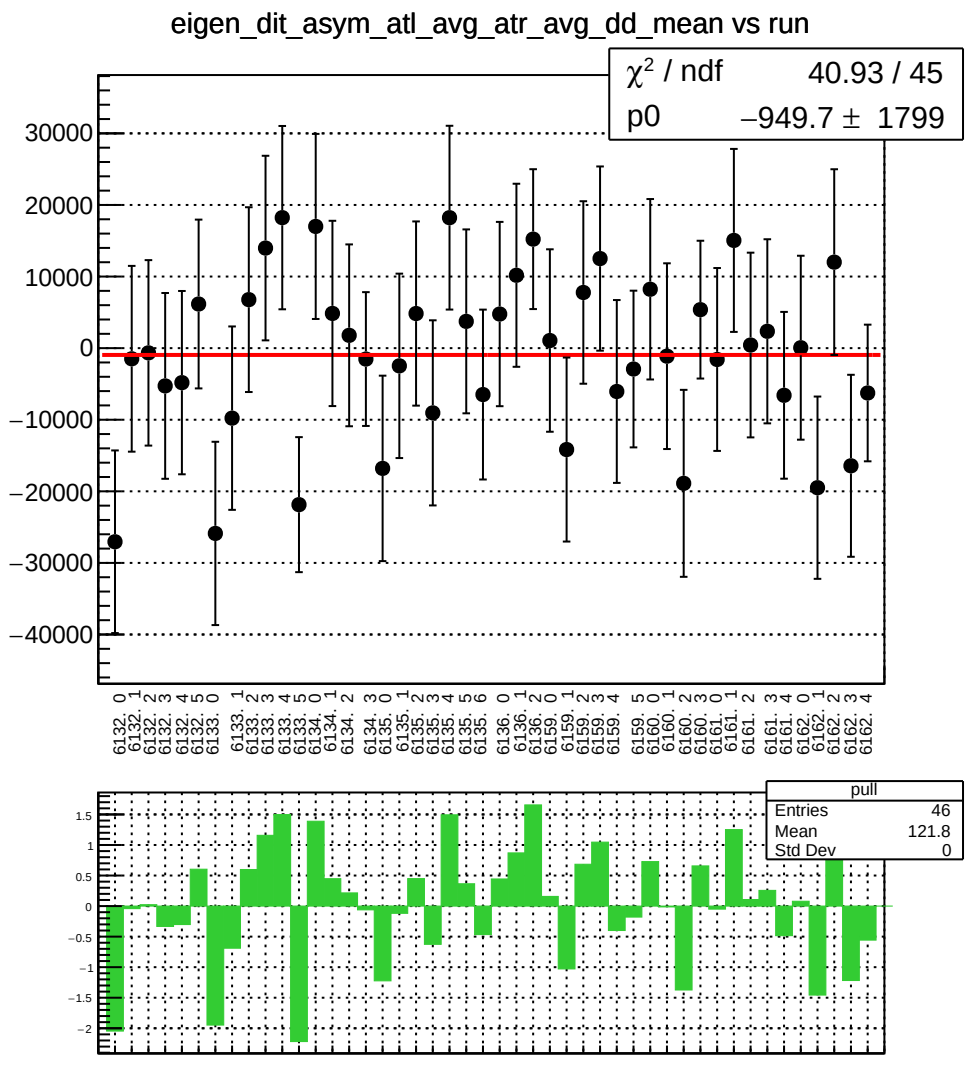
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 50.61 / 45
p0 −404.6 ± 1237
40000
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 145.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.0359
Std Dev 1.048
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 4.183e+04 / 45
p0 818.7 ± 0.8746
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 40.93 / 45
p0 −949.7 ± 1799
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 121.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.007555
Std Dev 0.9433
9
8
7
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5
4
3
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1
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−8
−6
−4
−2
0
2
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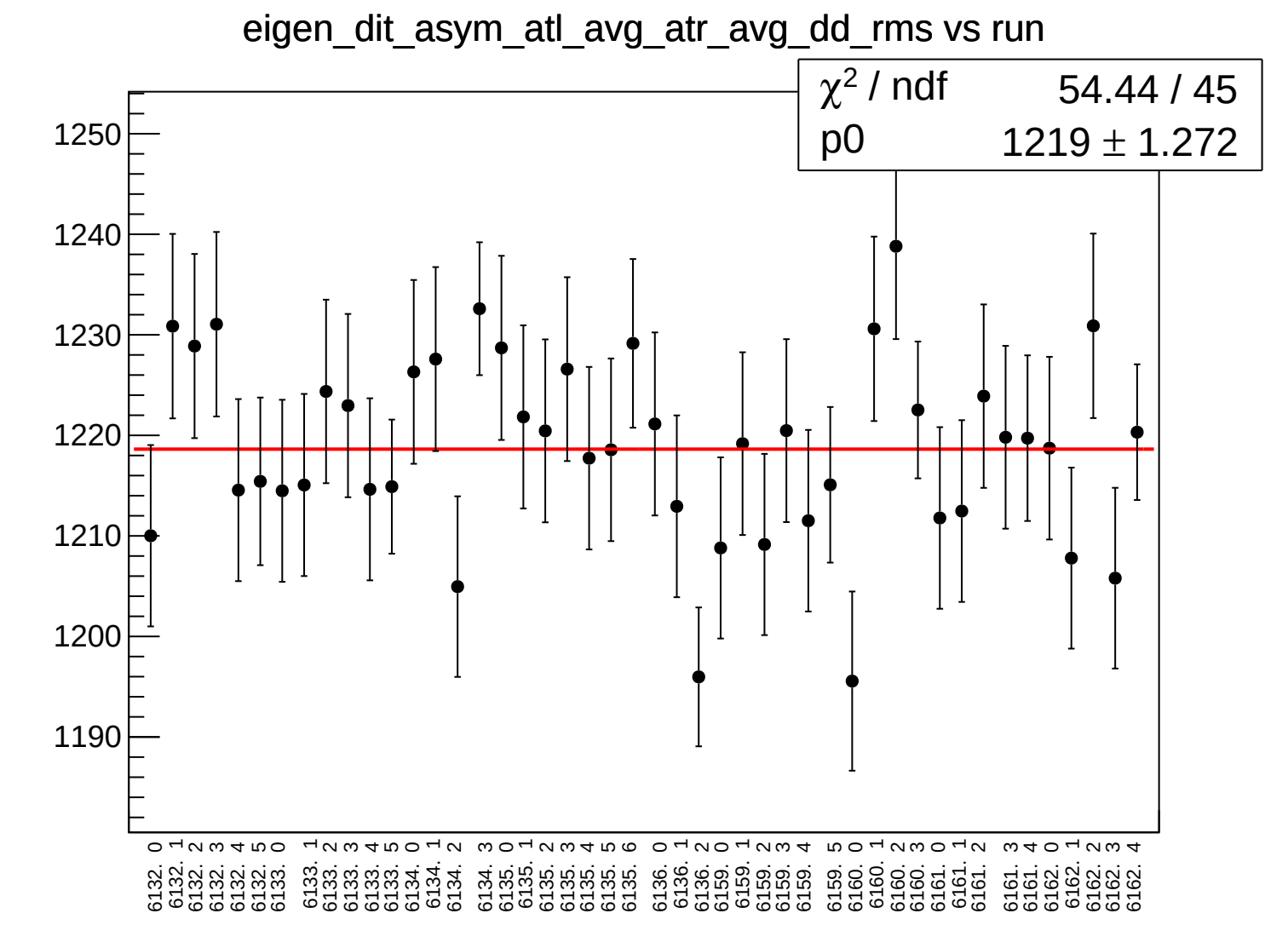
6
8


eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 54.44 / 45
p0 1219 ± 1.272
1250
1240
1230
1220
1210
1200
1190
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
6161. 3
6161. 4
6162. 0
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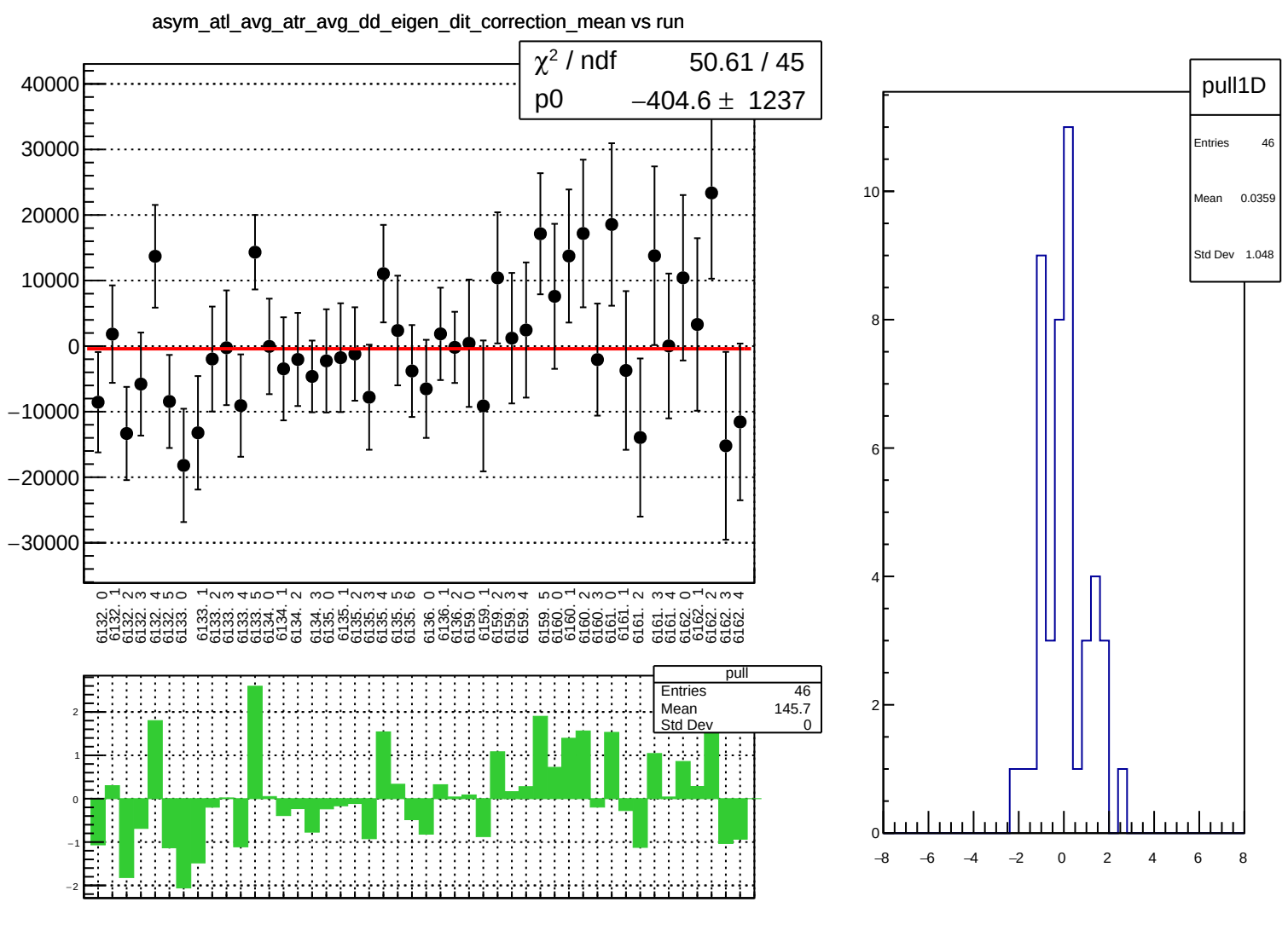
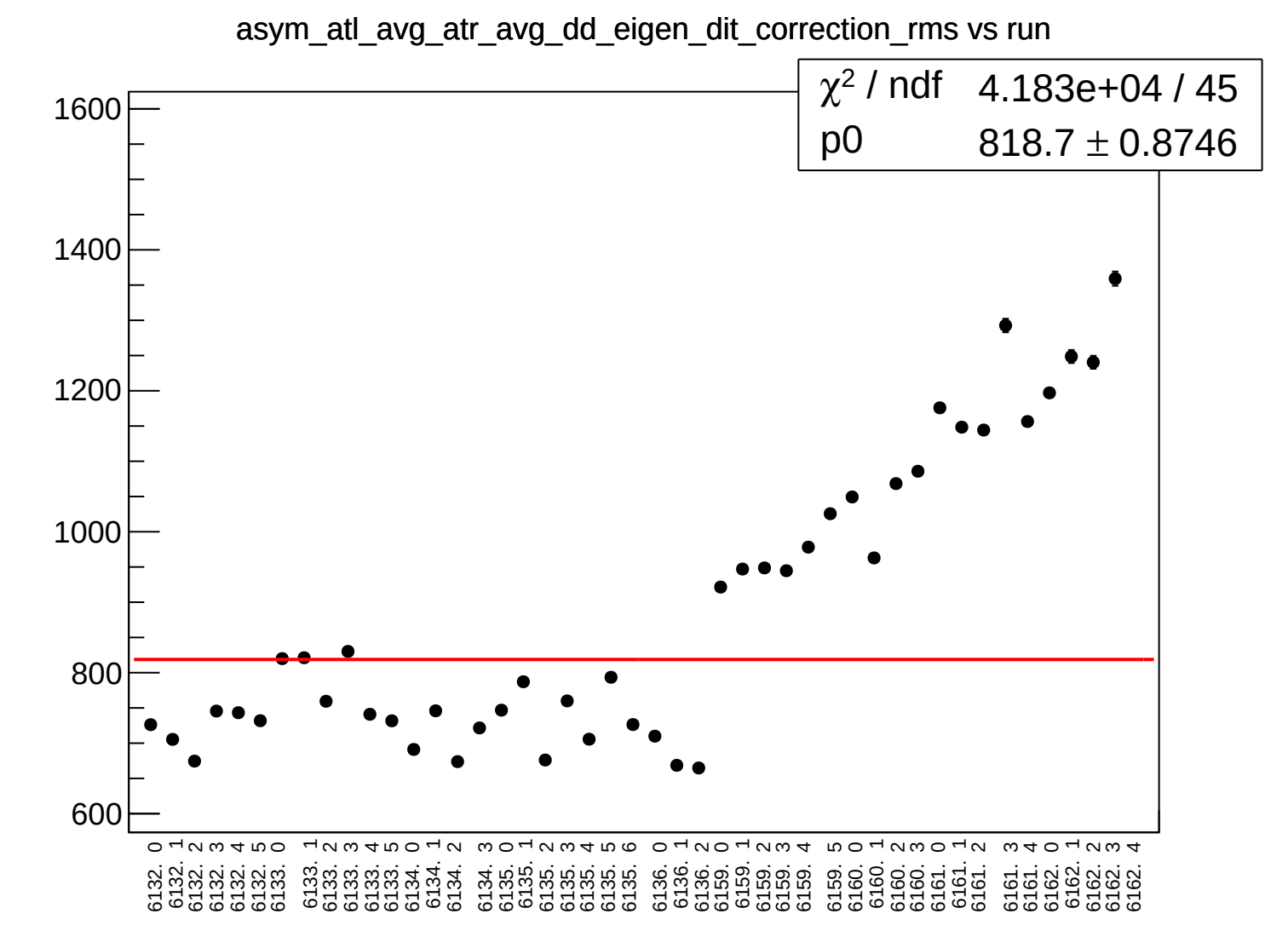
6162. 2
6162. 3
6162. 4


asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 50.61 / 45
p0 −404.6 ± 1237
40000
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 145.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.0359
Std Dev 1.048
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4.183e+04 / 45
p0 818.7 ± 0.8746
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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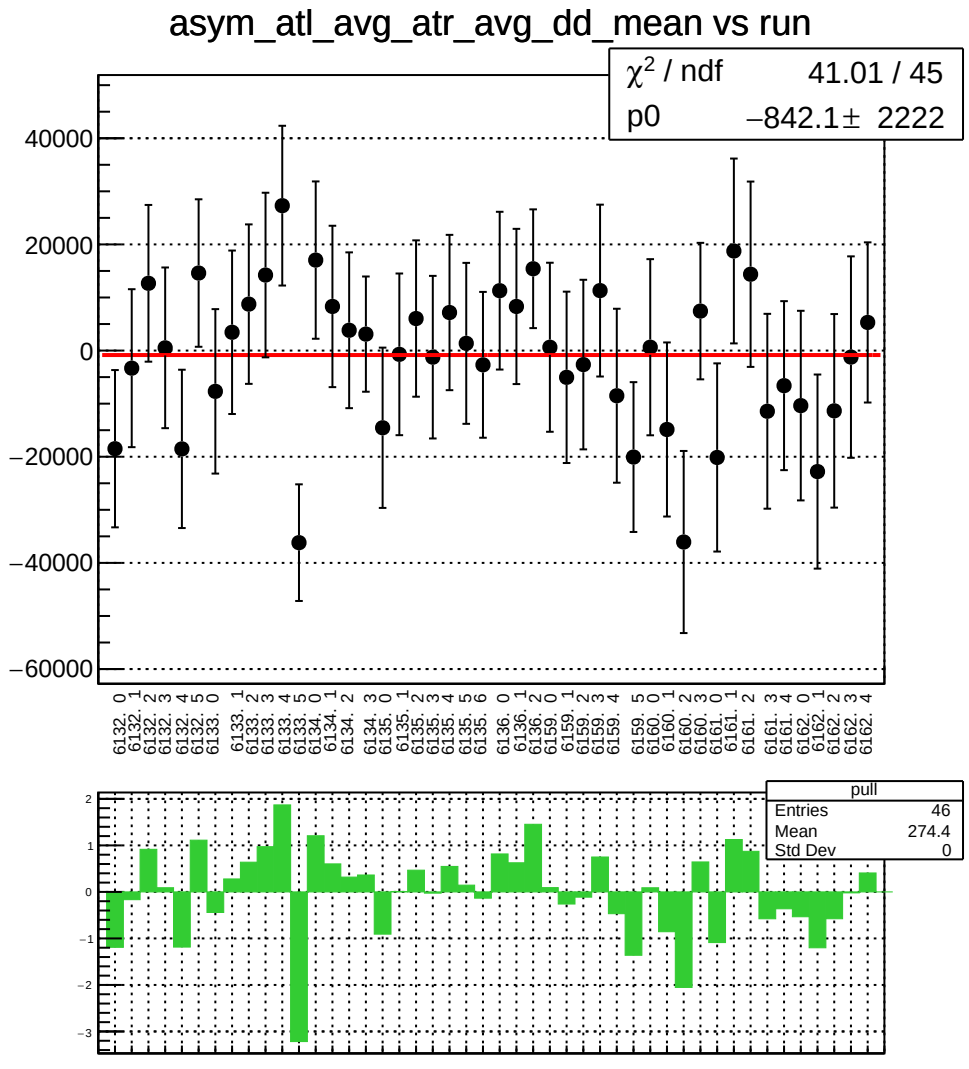
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 41.01 / 45
p0 −842.1± 2222
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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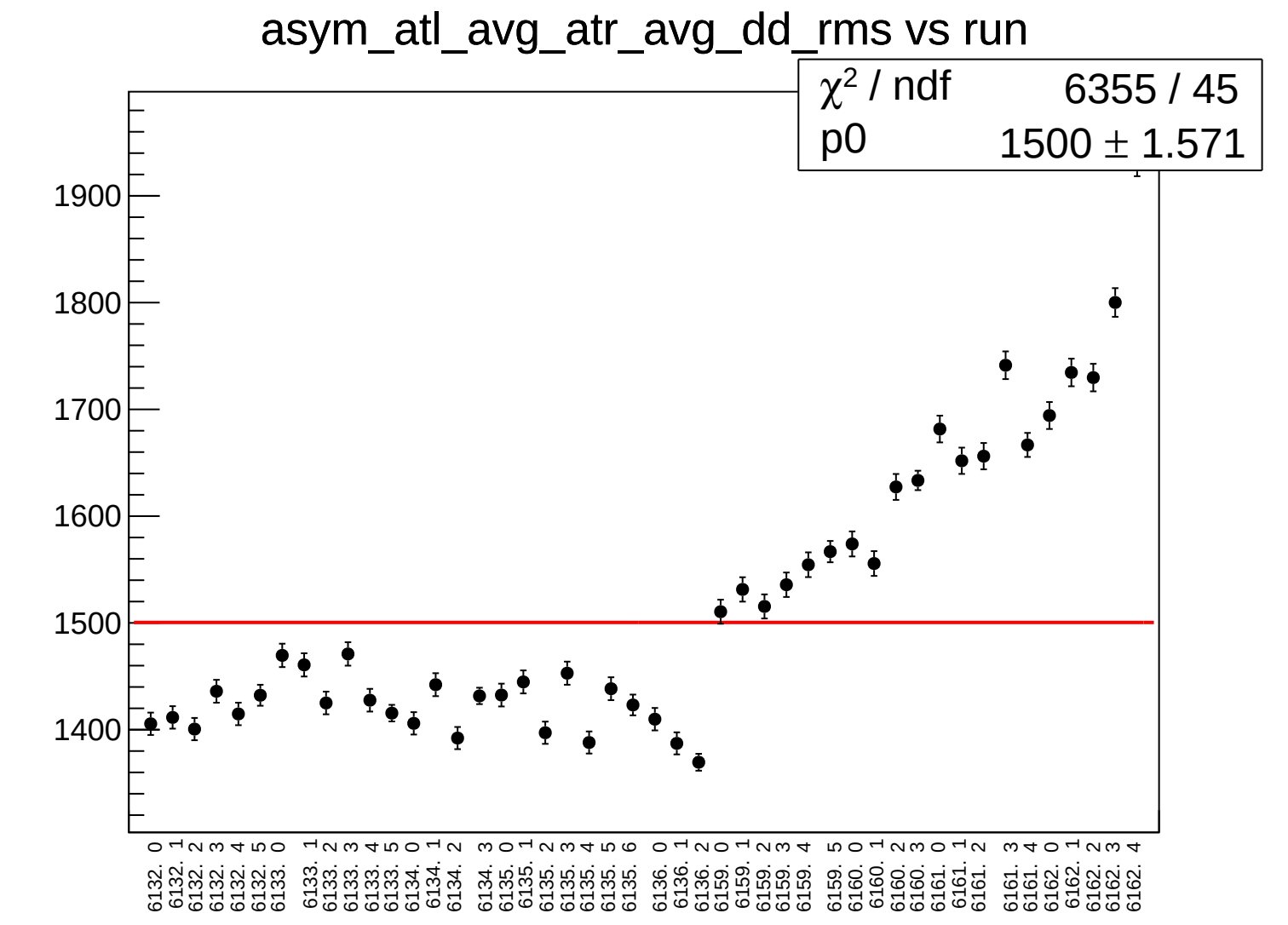
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 274.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.007128
Std Dev 0.9441
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 6355 / 45
p0 1500 ± 1.571
1900
1800
1700
1600
1500
1400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 0
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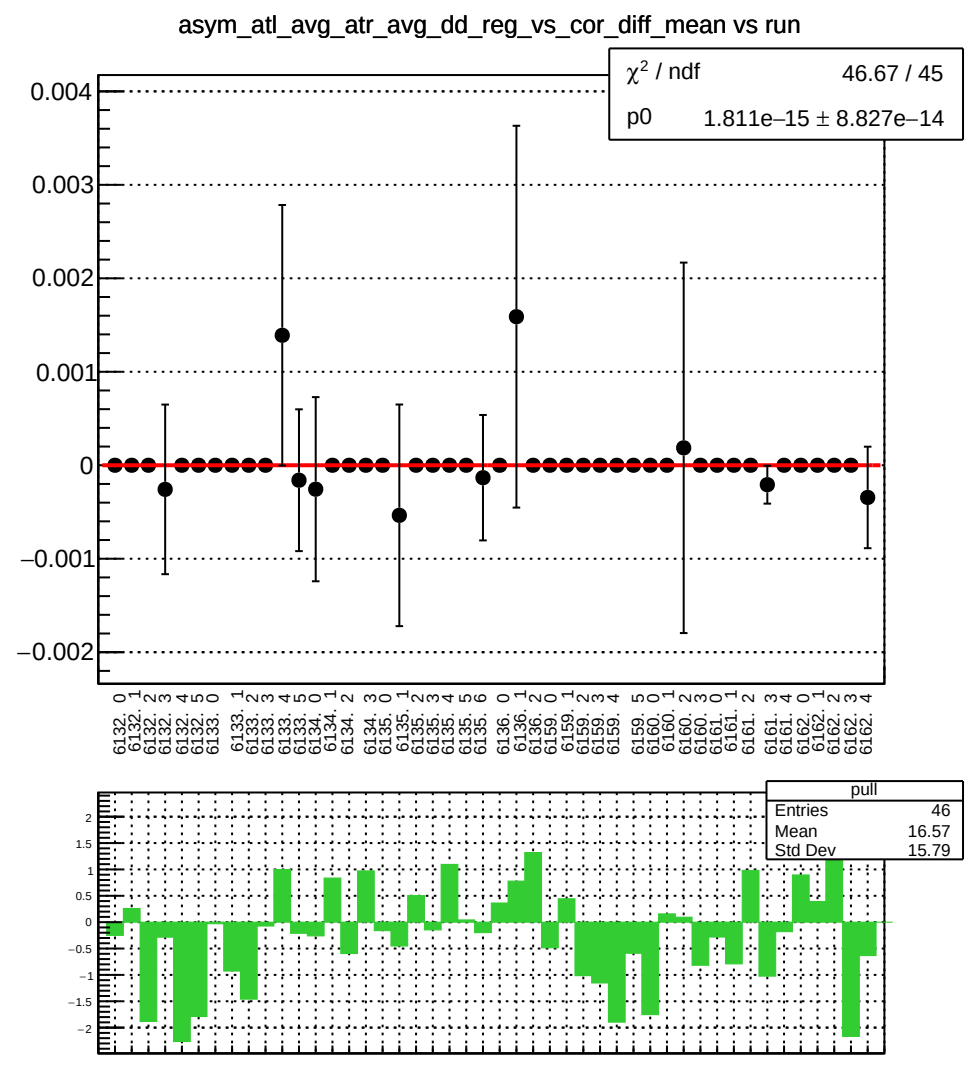
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 46.67 / 45
p0 1.811e−15 ± 8.827e−14
0.004
0.003
0.002
0.001
0
−0.001
−0.002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
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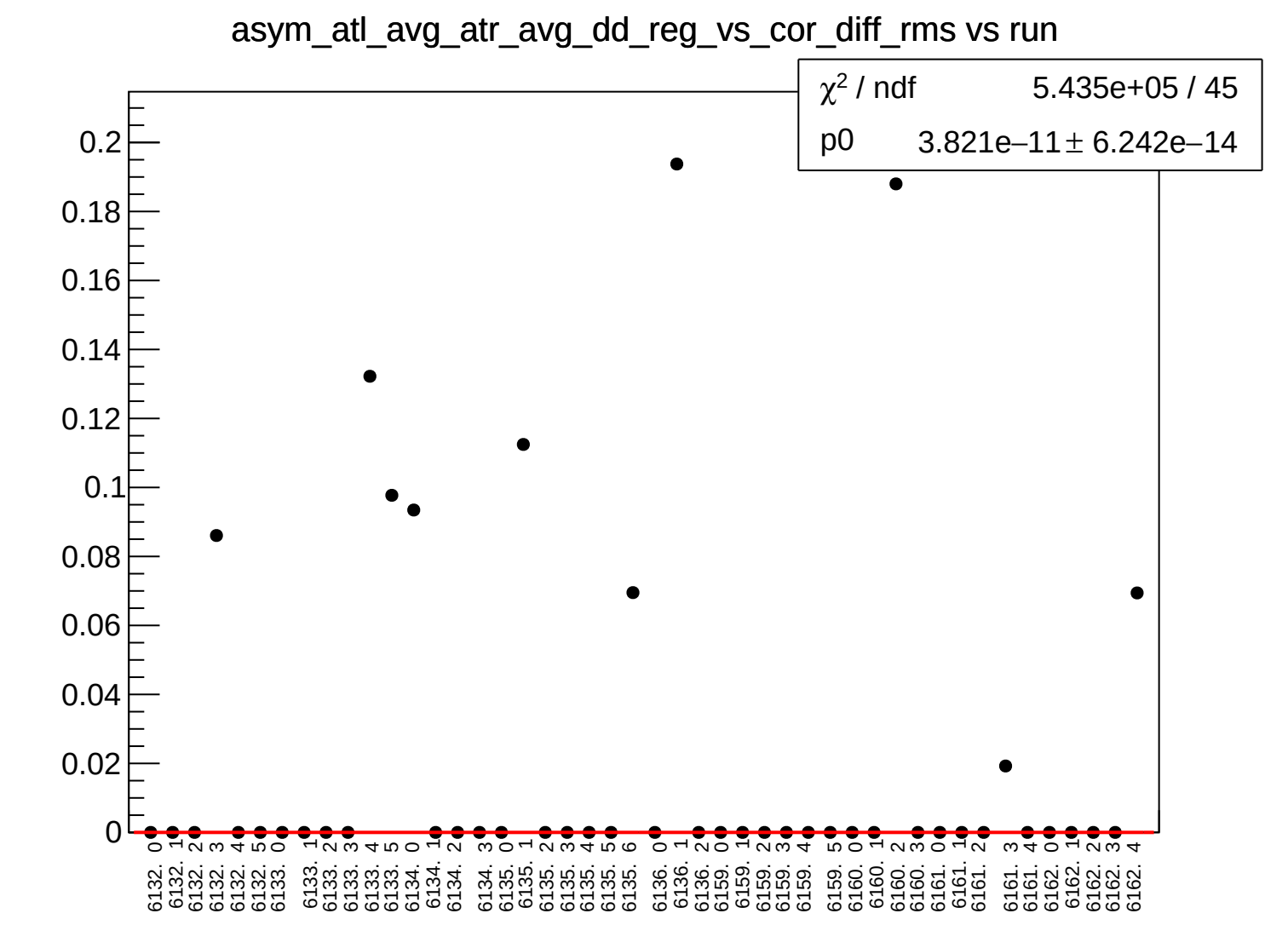
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 16.57
Std Dev 15.79
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.2481
Std Dev 0.9762
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.435e+05 / 45
p0 3.821e−11 ± 6.242e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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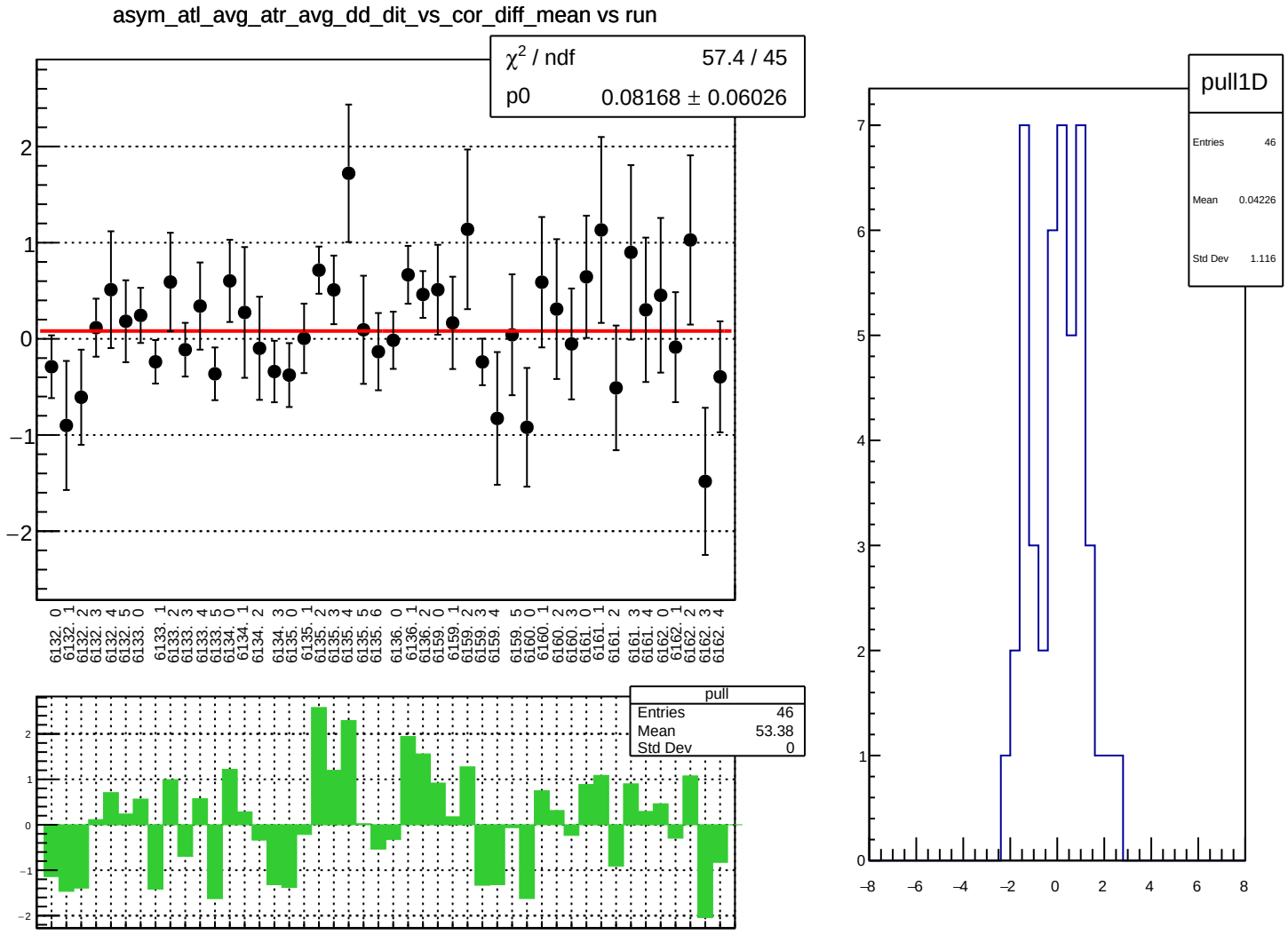
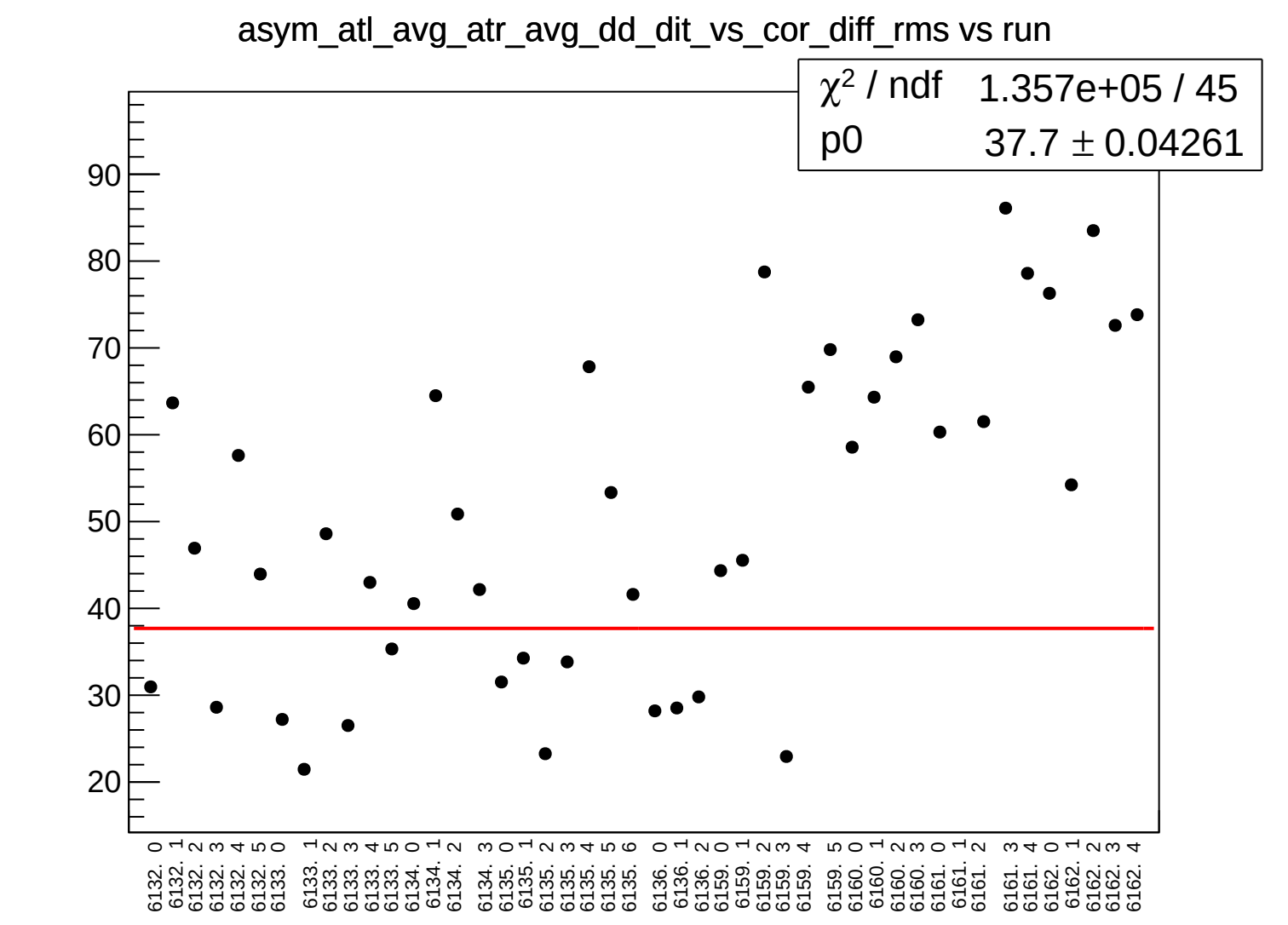
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 57.4 / 45
p0 0.08168 ± 0.06026
pull
Entries 46
Mean 53.38
Std Dev 0
pull1D
Entries 46
Mean 0.04226
Std Dev 1.116


asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.357e+05 / 45
p0 37.7 ± 0.04261
90
80
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6159. 0
6159. 1
6159. 2
6159. 3
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6159. 5
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6160. 1
6160. 2
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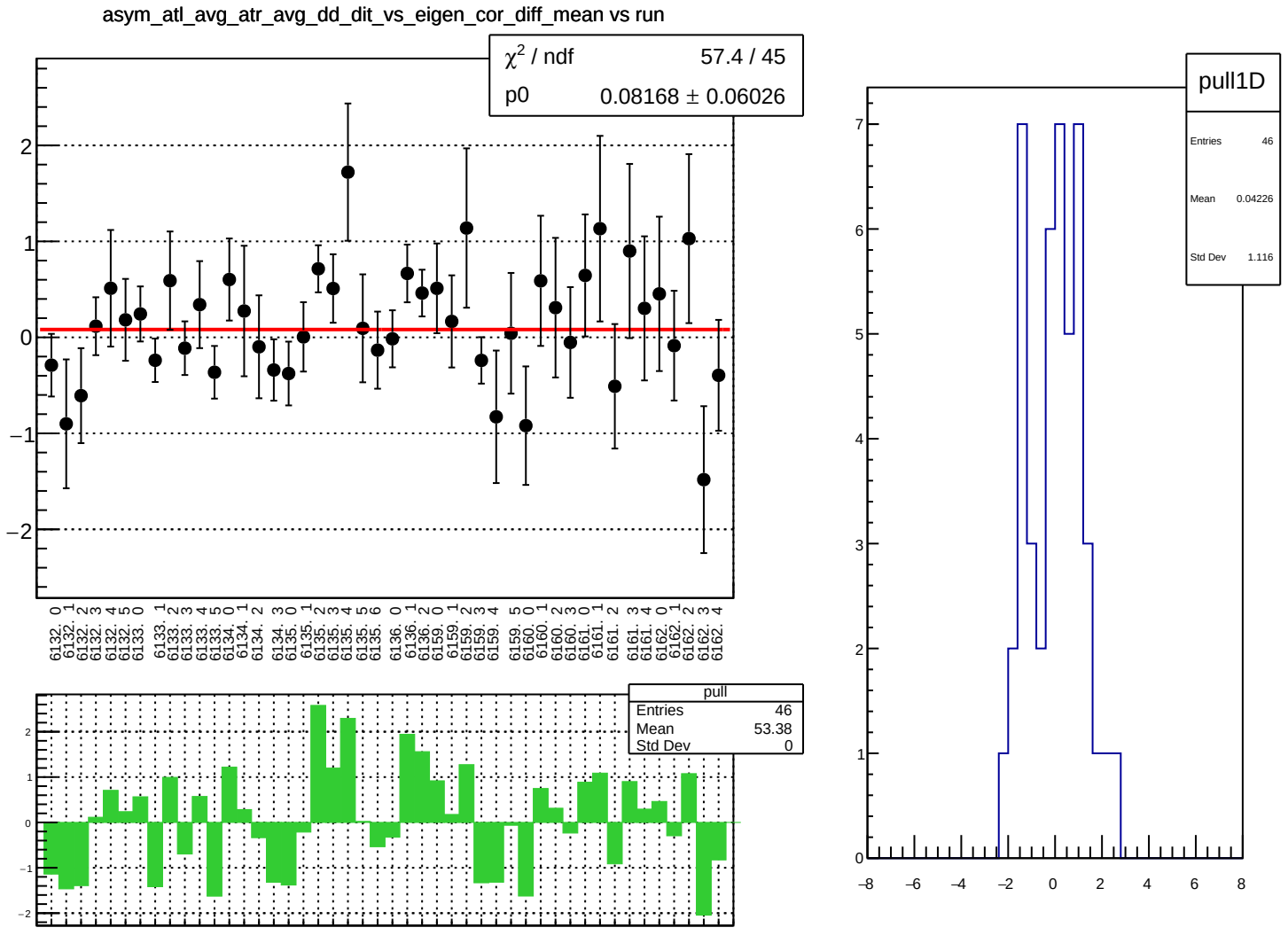
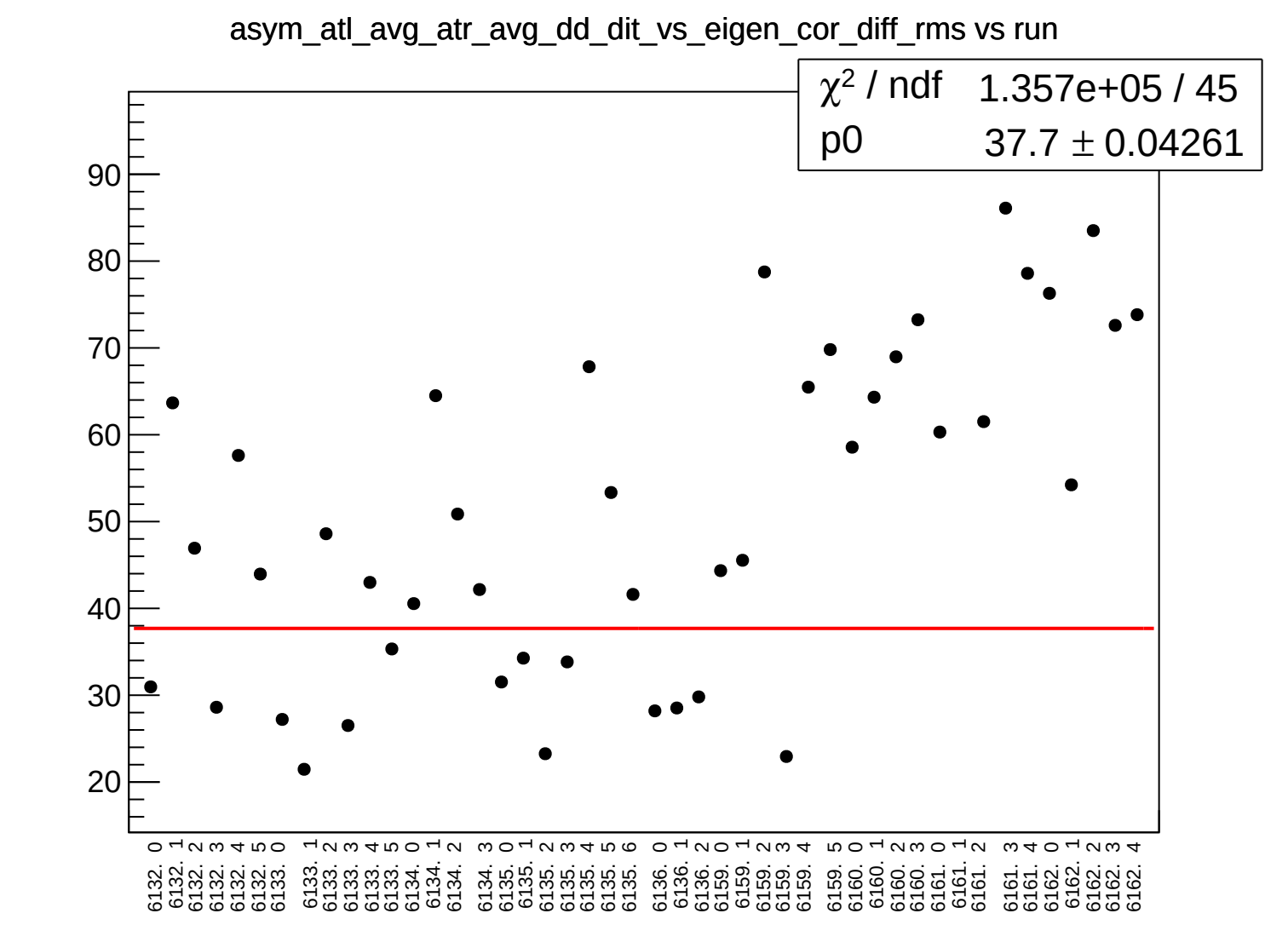

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.4 / 45
p0 0.08168 ± 0.06026
pull
Entries 46
Mean 53.38
Std Dev 0
pull1D
Entries 46
Mean 0.04226
Std Dev 1.116


asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.357e+05 / 45
p0 37.7 ± 0.04261
90
80
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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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
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6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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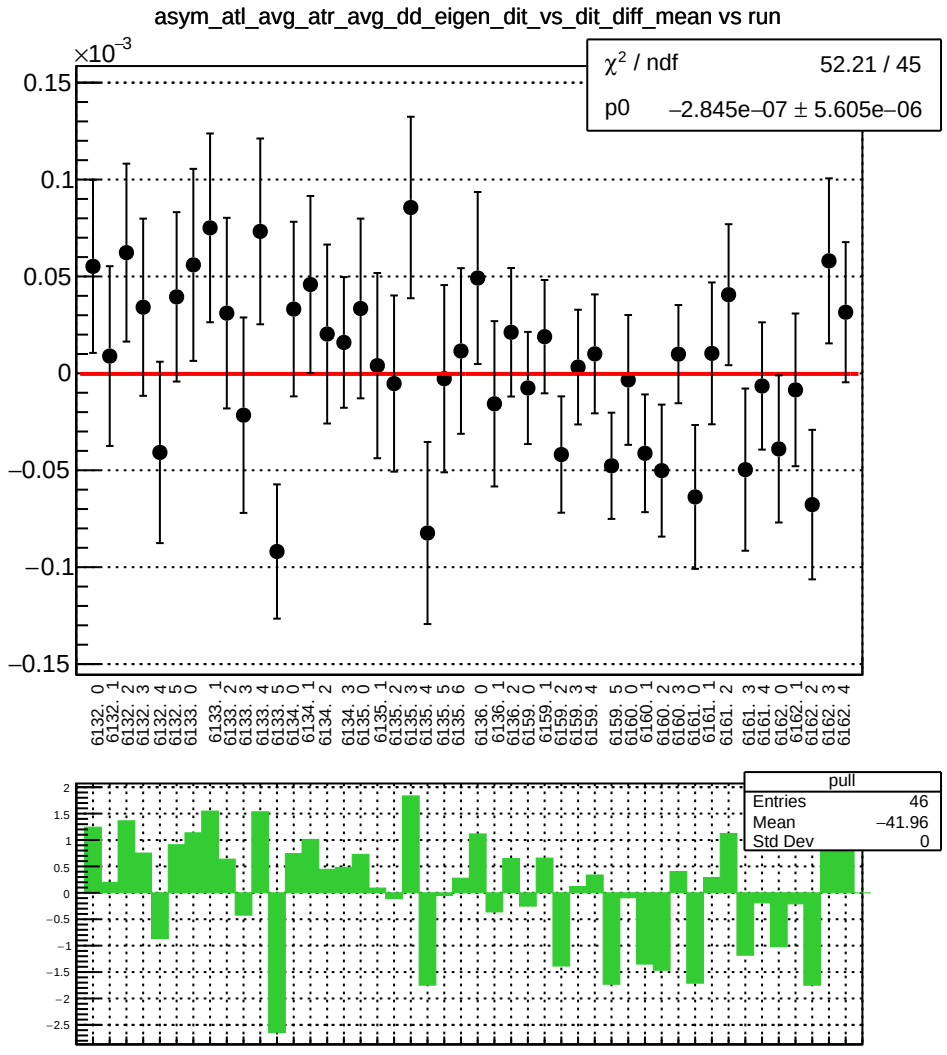
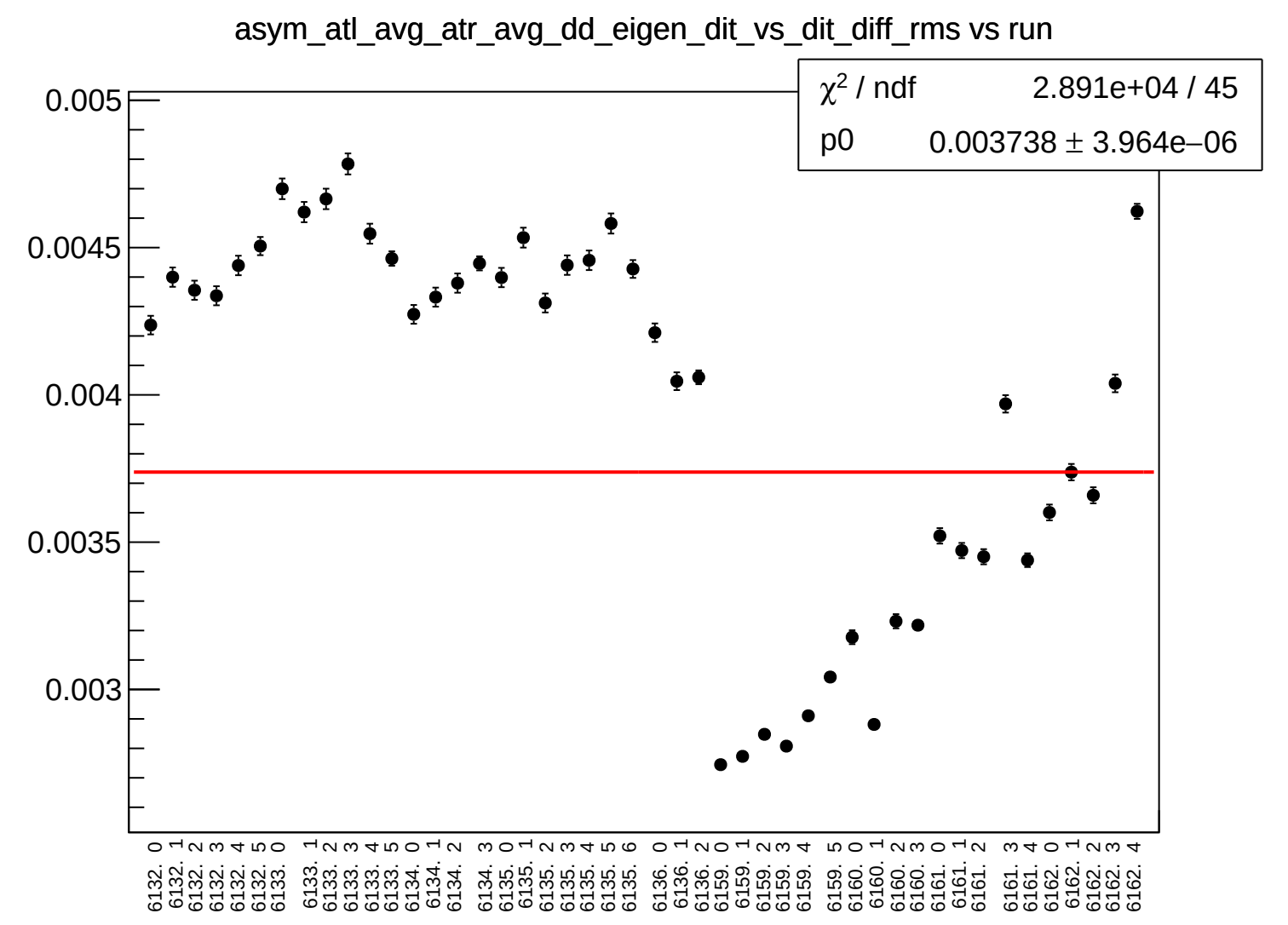
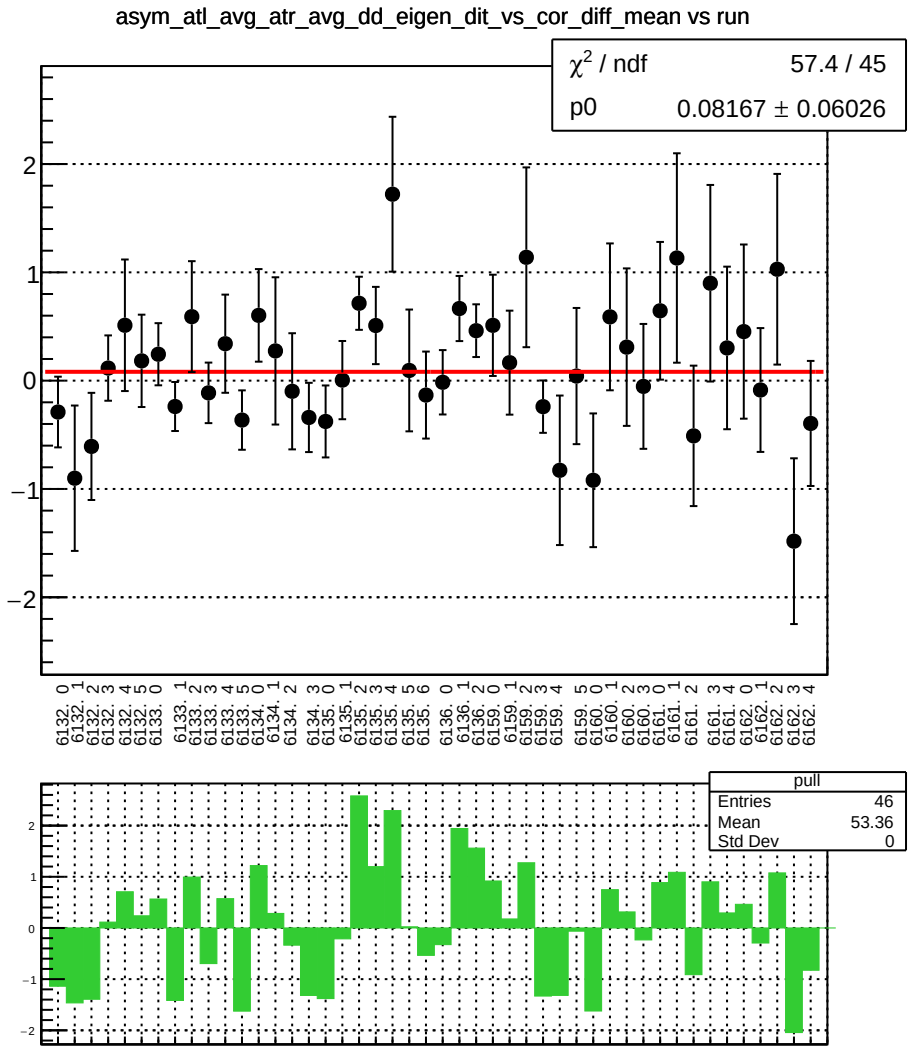
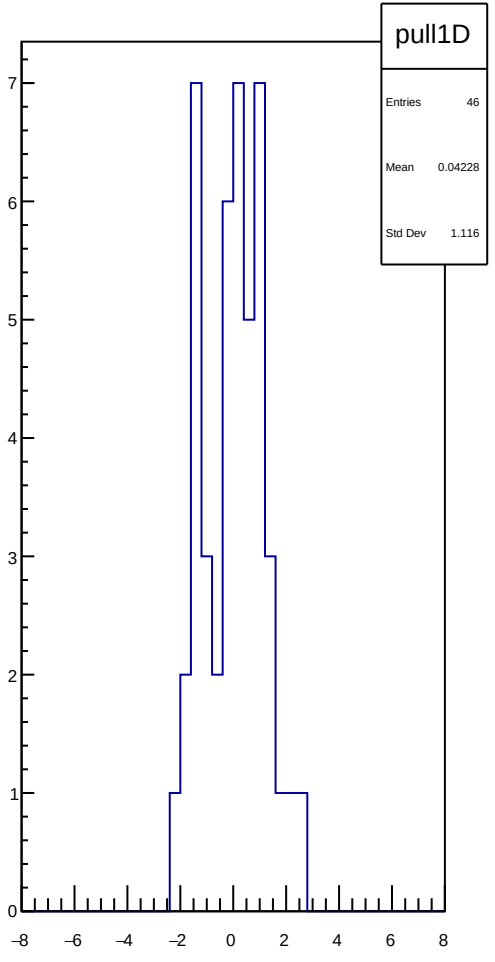
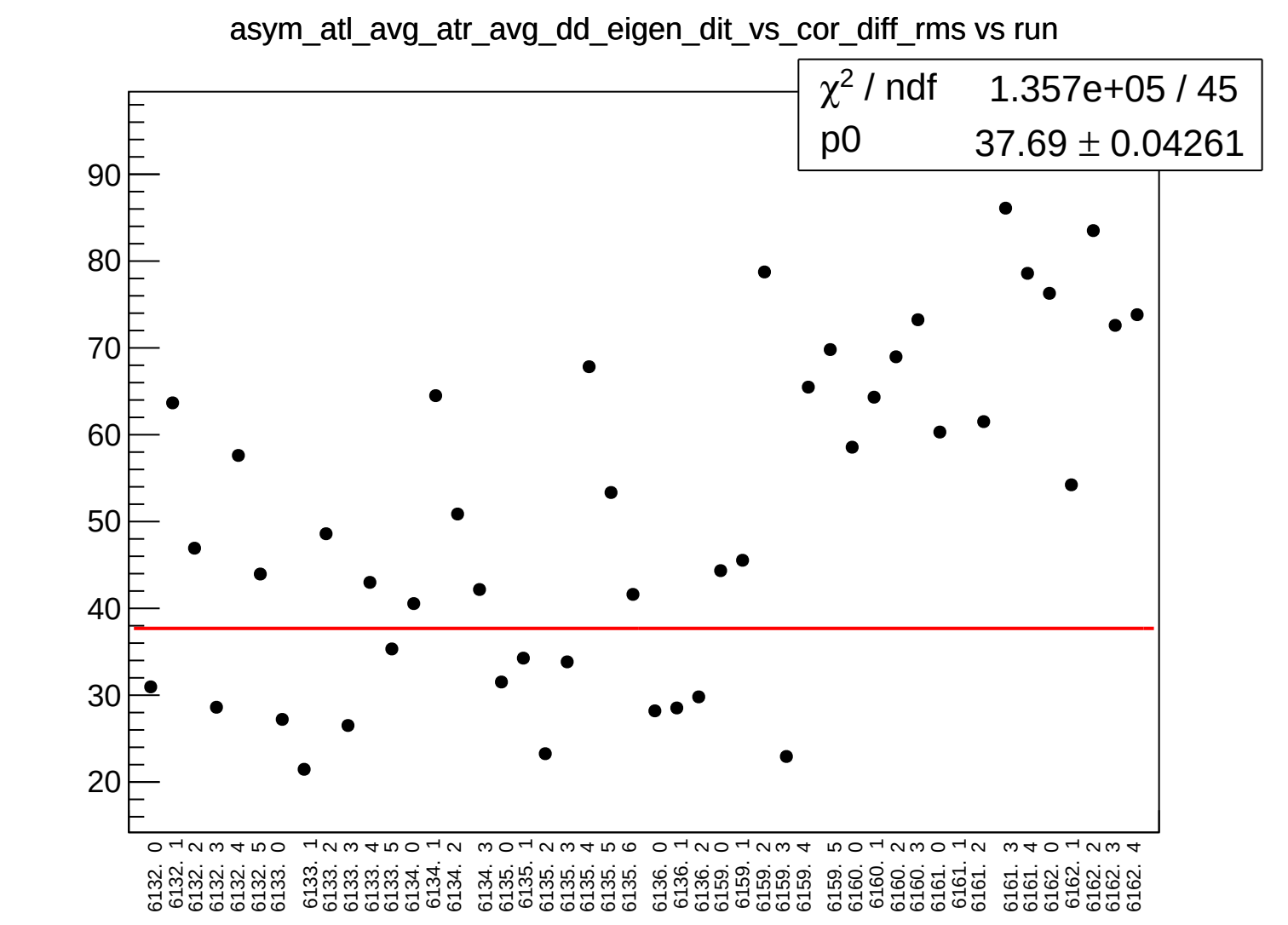
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

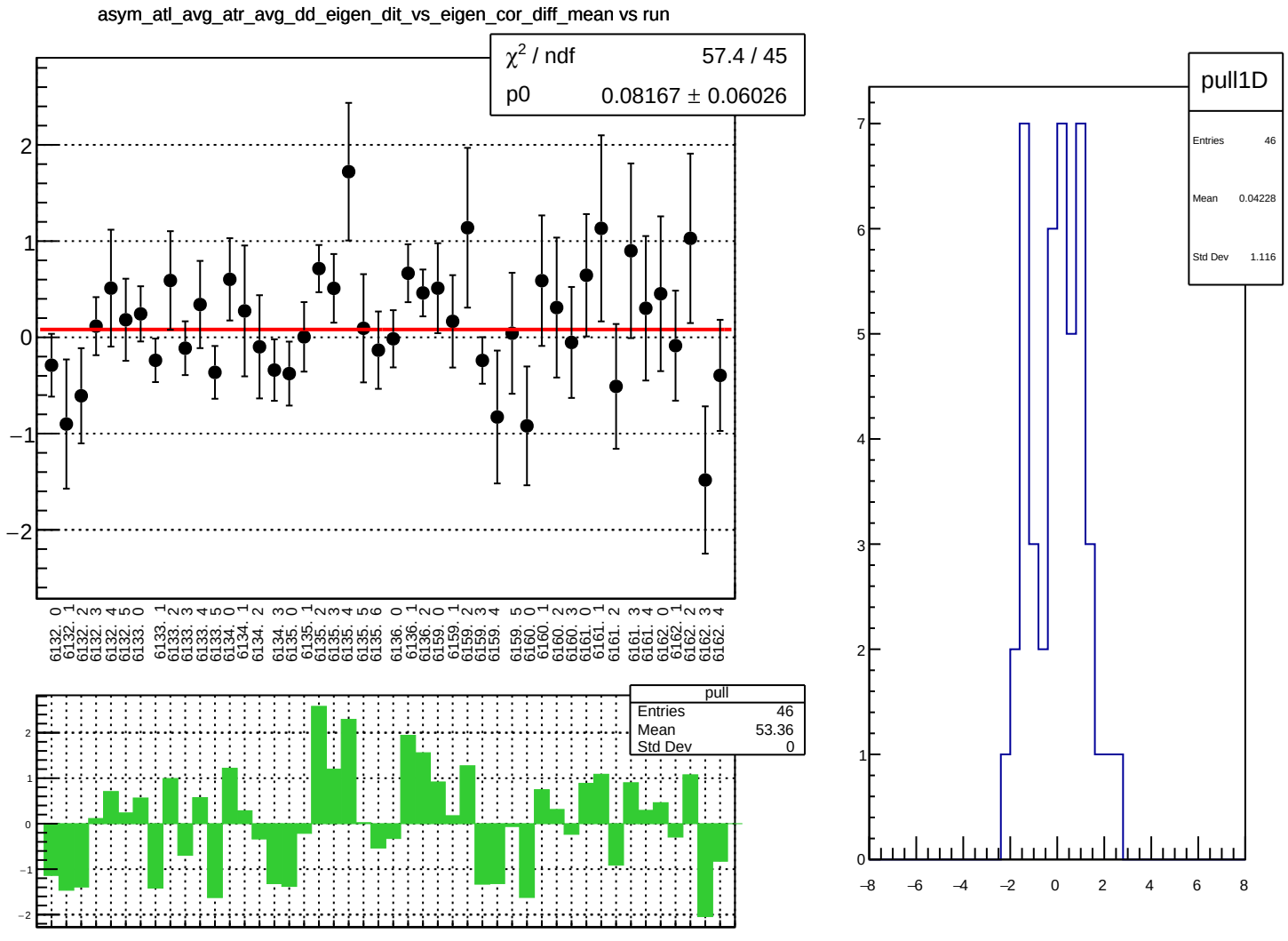

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 52.21 / 45
p0 −2.845e−07 ± 5.605e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −41.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean 0.07274
Std Dev 1.063
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

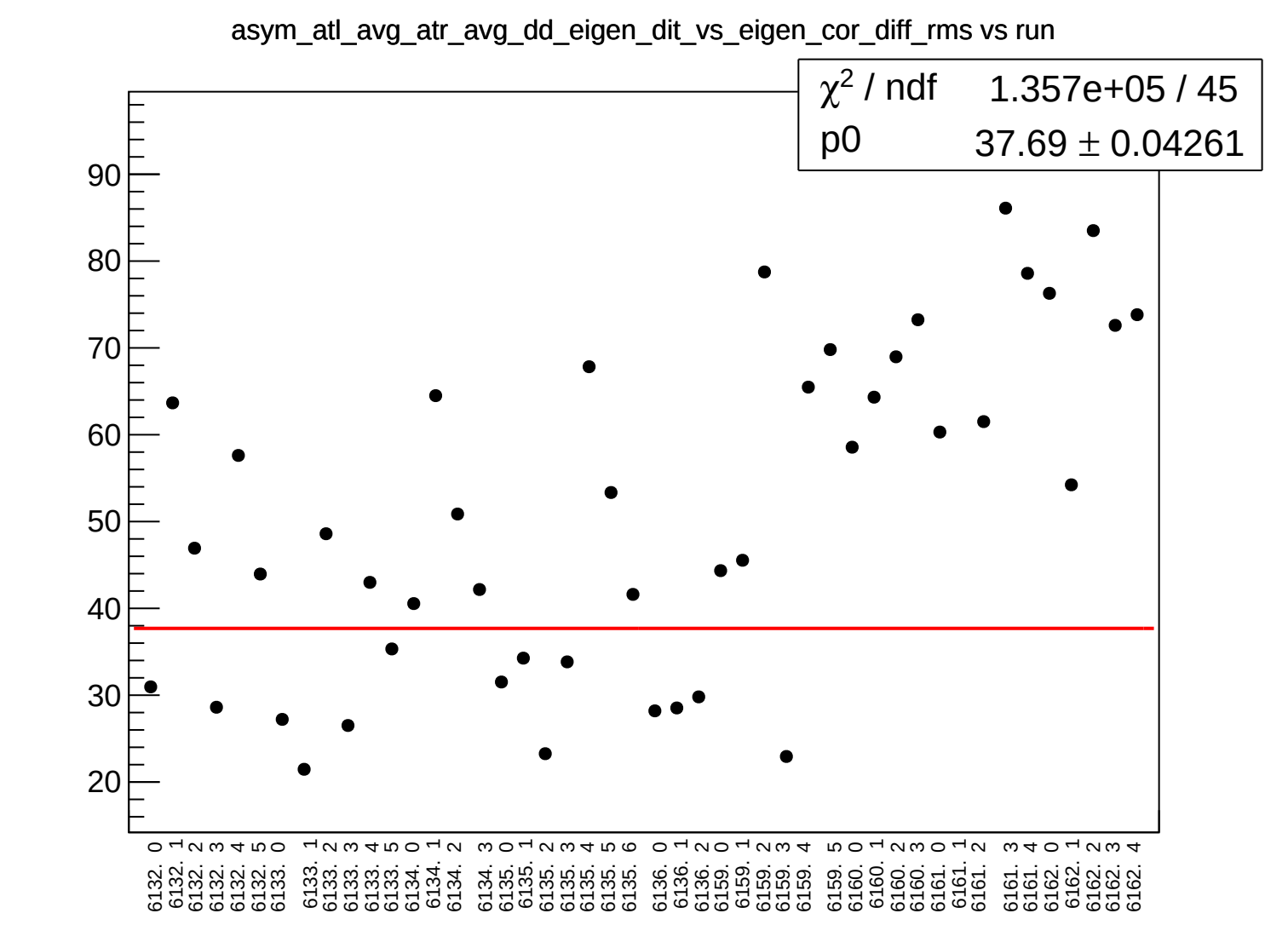

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.891e+04 / 45
p0 0.003738 ± 3.964e−06
0.005
0.0045
0.004
0.0035
0.003
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

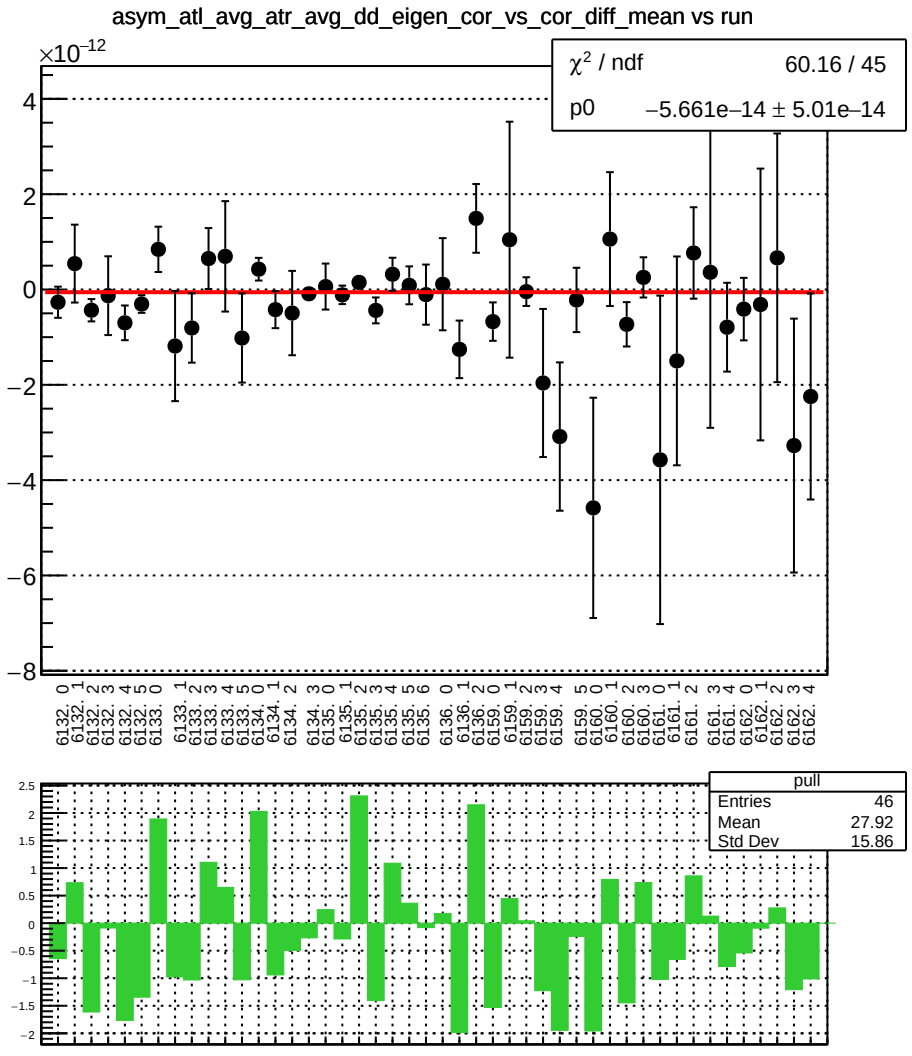

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 57.4 / 45
p0 0.08167 ± 0.06026
pull
Entries 46
Mean 53.36
Std Dev 0

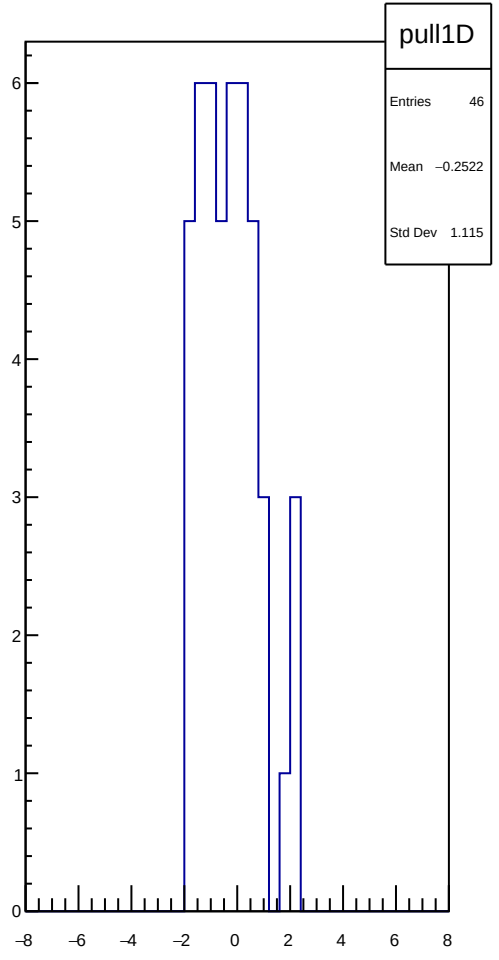

pull1D
Entries 46
Mean 0.04228
Std Dev 1.116

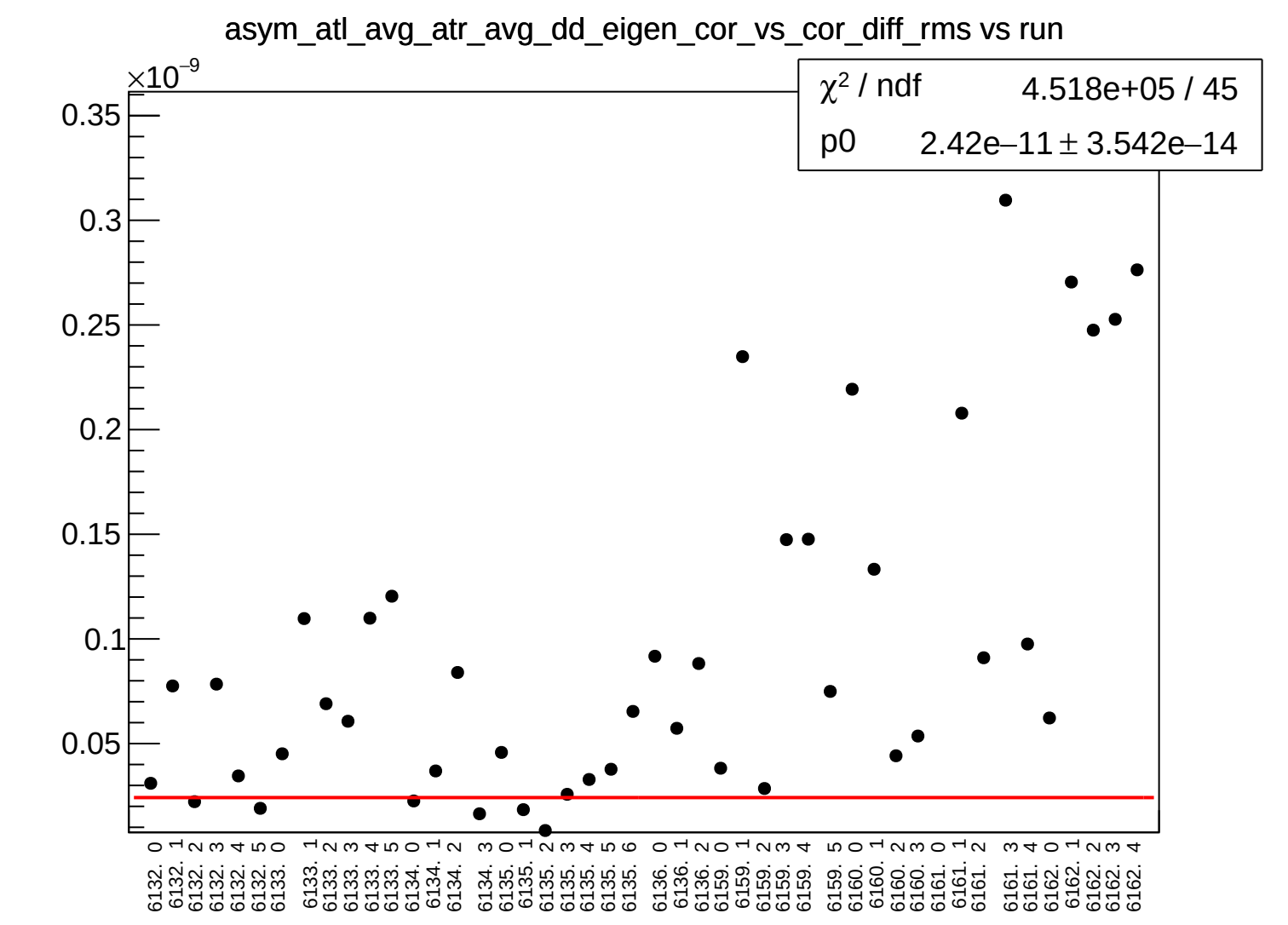

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.357e+05 / 45
p0 37.69 ± 0.04261
90
80
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

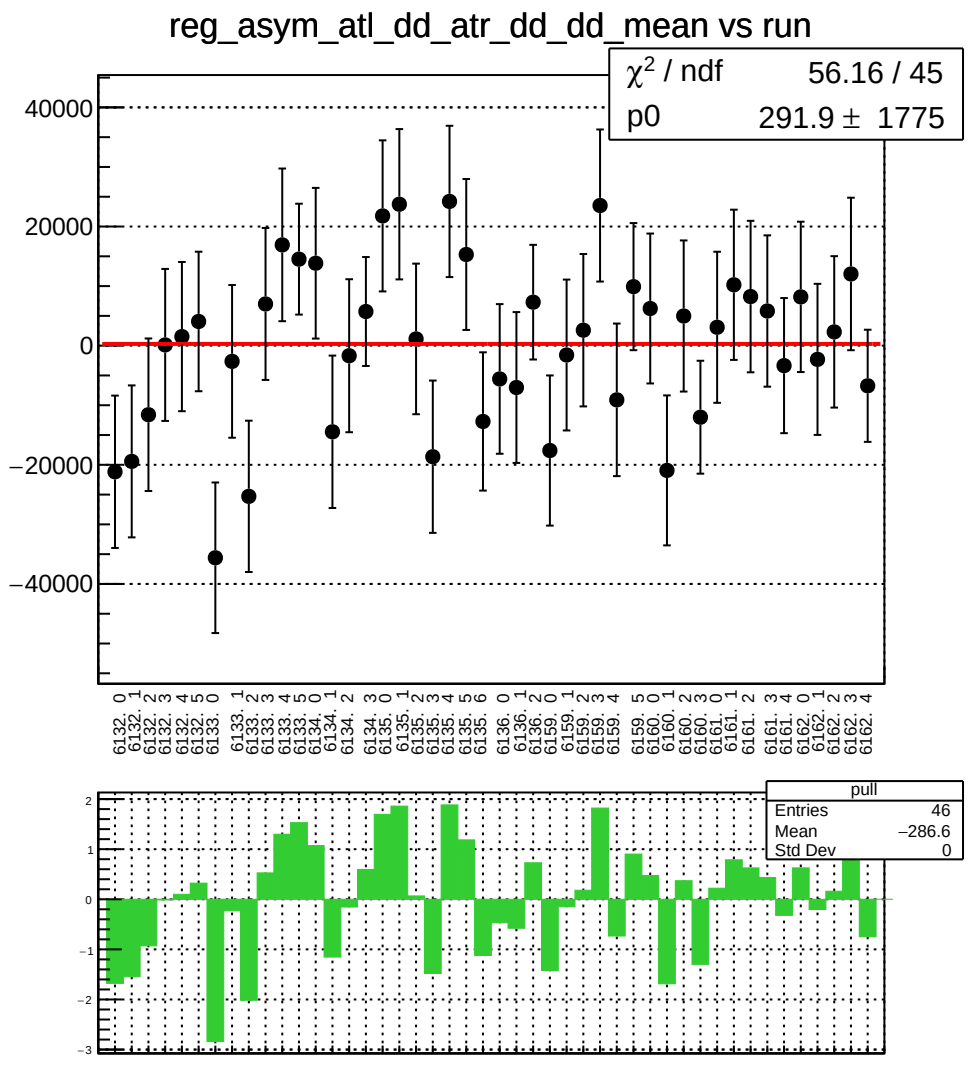

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.4 / 45
p0 0.08167 ± 0.06026
pull
Entries 46
Mean 53.36
Std Dev 0
pull1D
Entries 46
Mean 0.04228
Std Dev 1.116

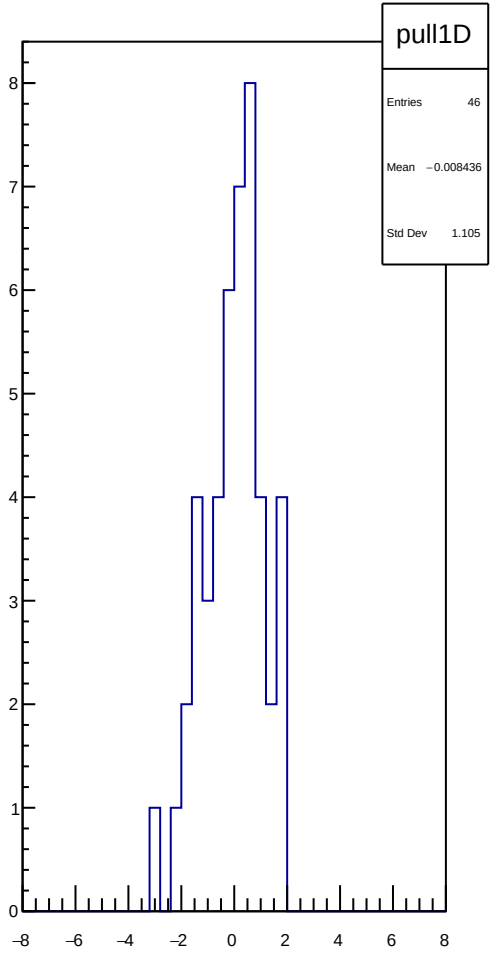

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.357e+05 / 45
p0 37.69 ± 0.04261
90
80
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

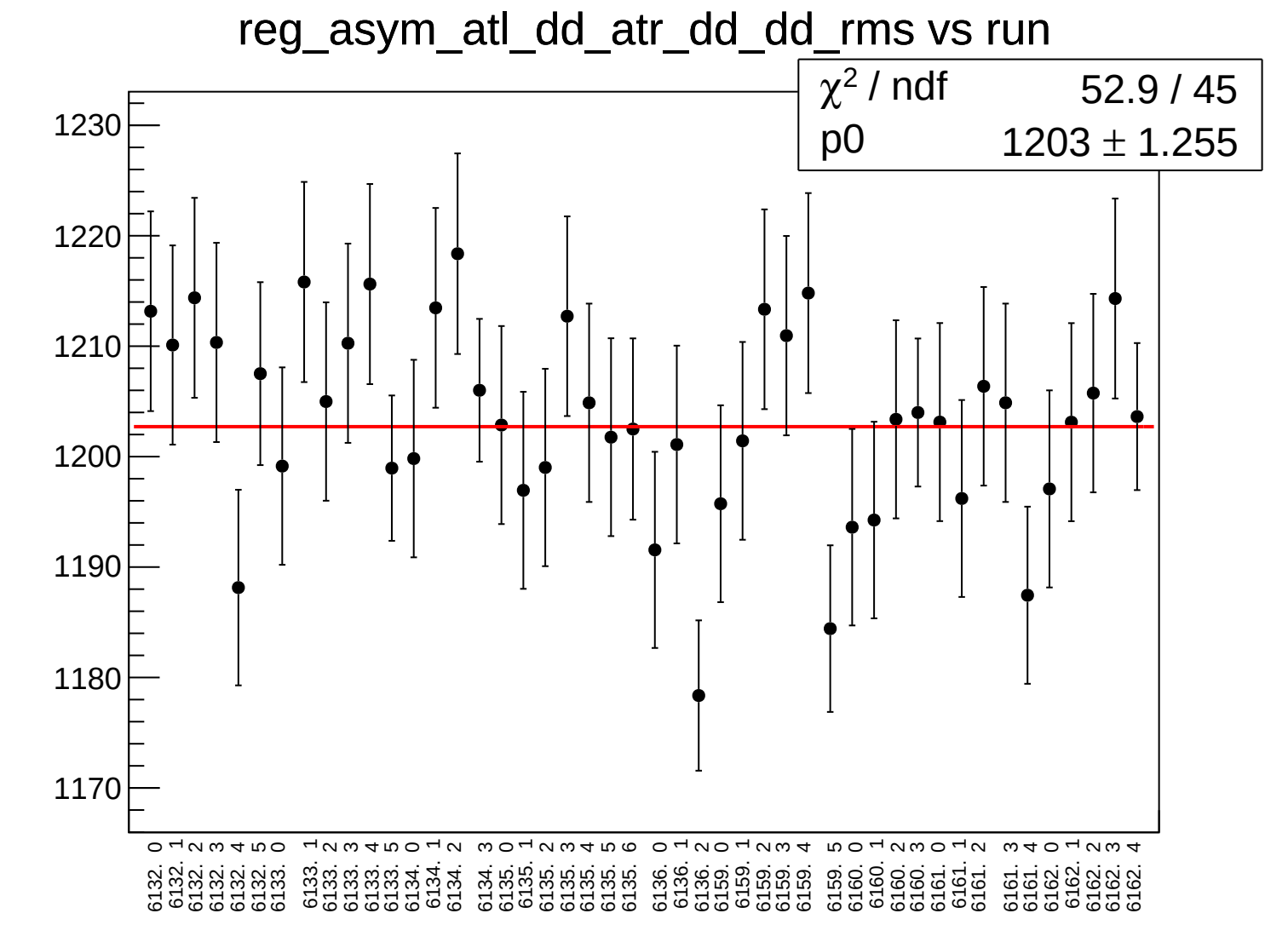

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 60.16 / 45
p0 −5.661e−14 ± 5.01e−14
pull
Entries 46
Mean 27.92
Std Dev 15.86

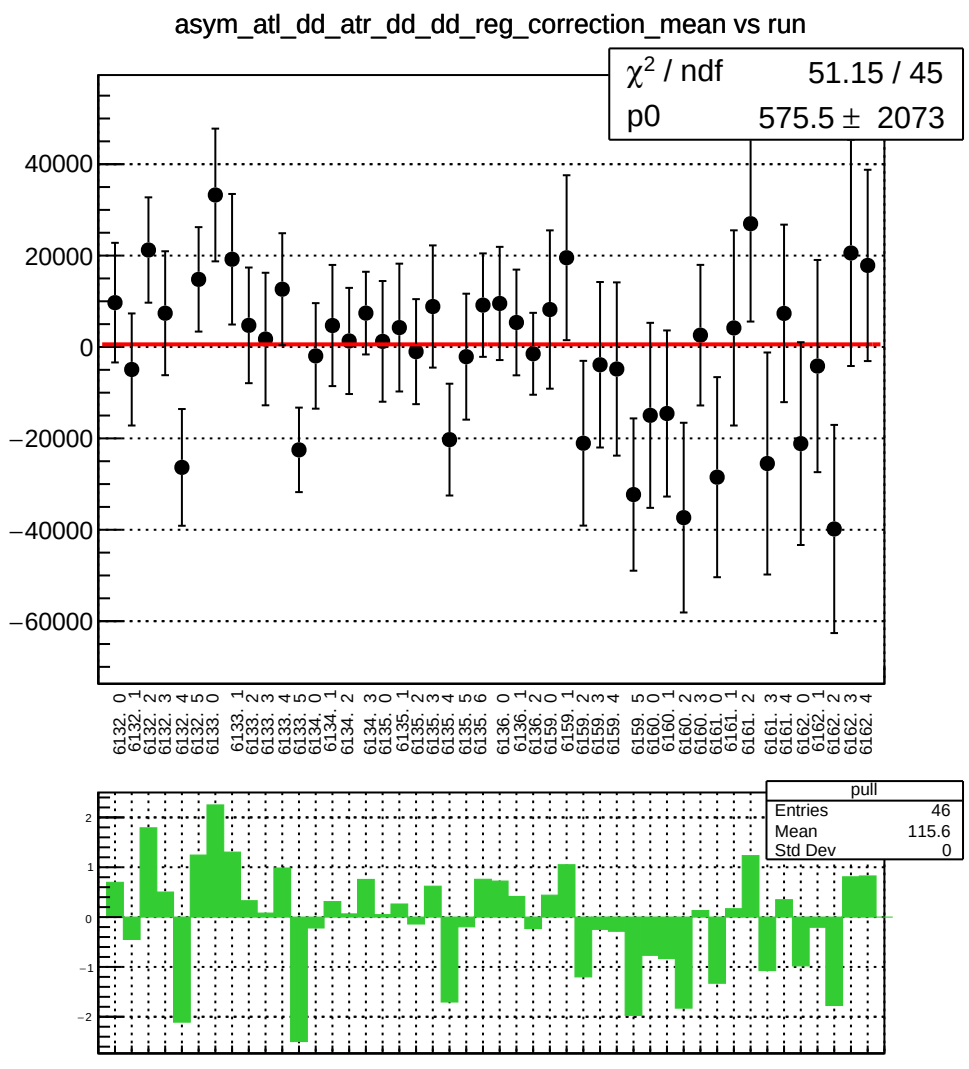

pull1D
Entries 46
Mean −0.2522
Std Dev 1.115

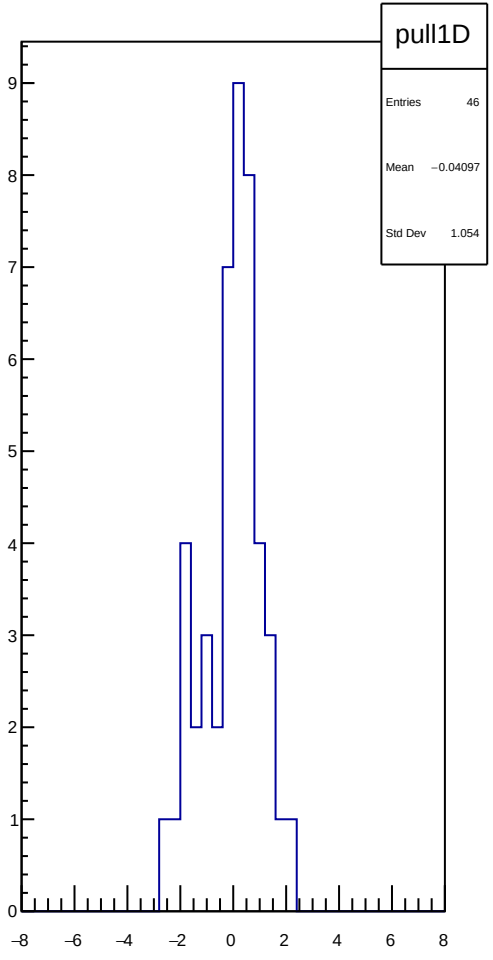

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.518e+05 / 45
p0 2.42e−11 ± 3.542e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

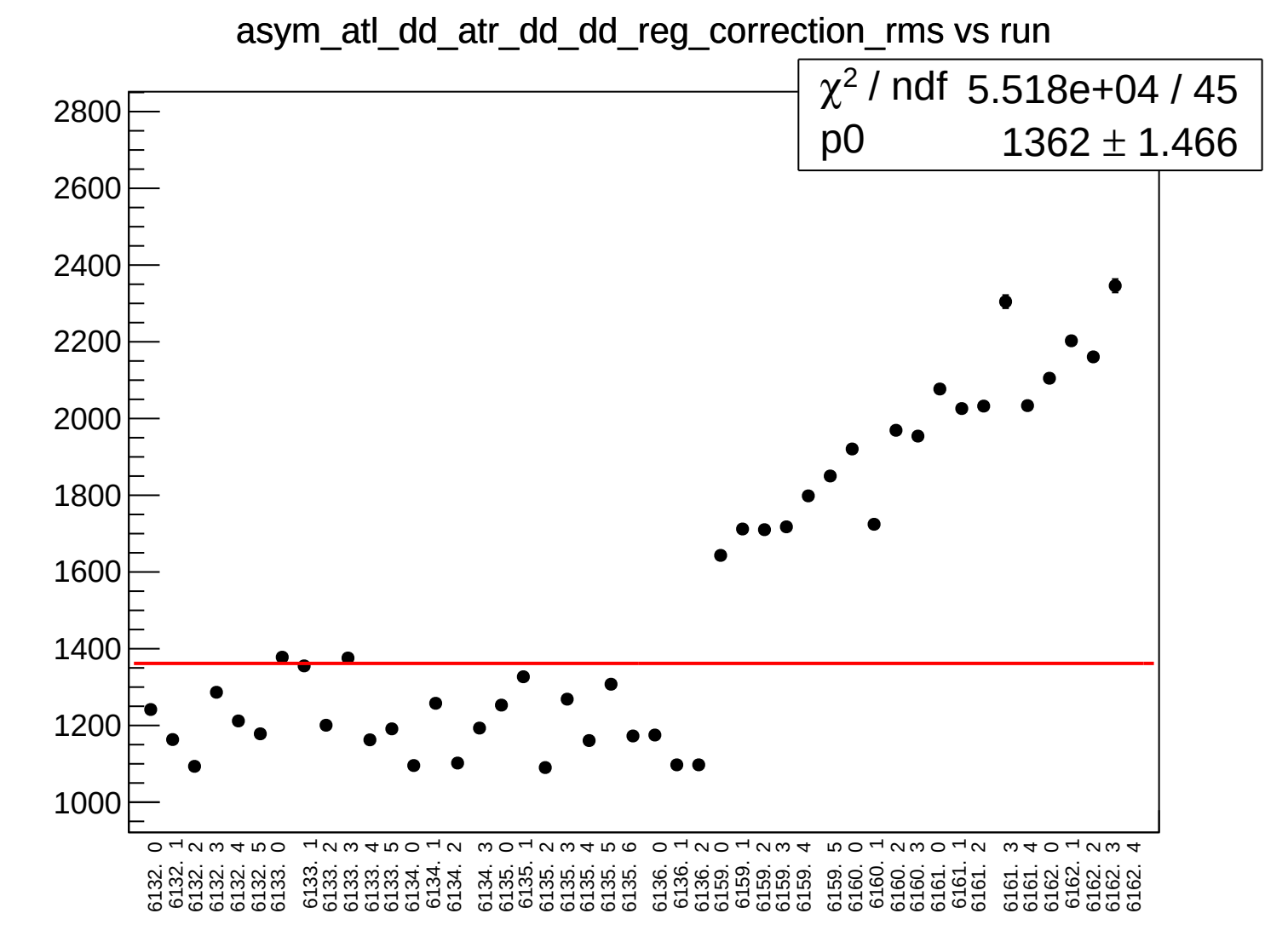

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 56.16 / 45
p0 291.9 ± 1775
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −286.6
Std Dev 0
2
1
0
−1
−2
−3

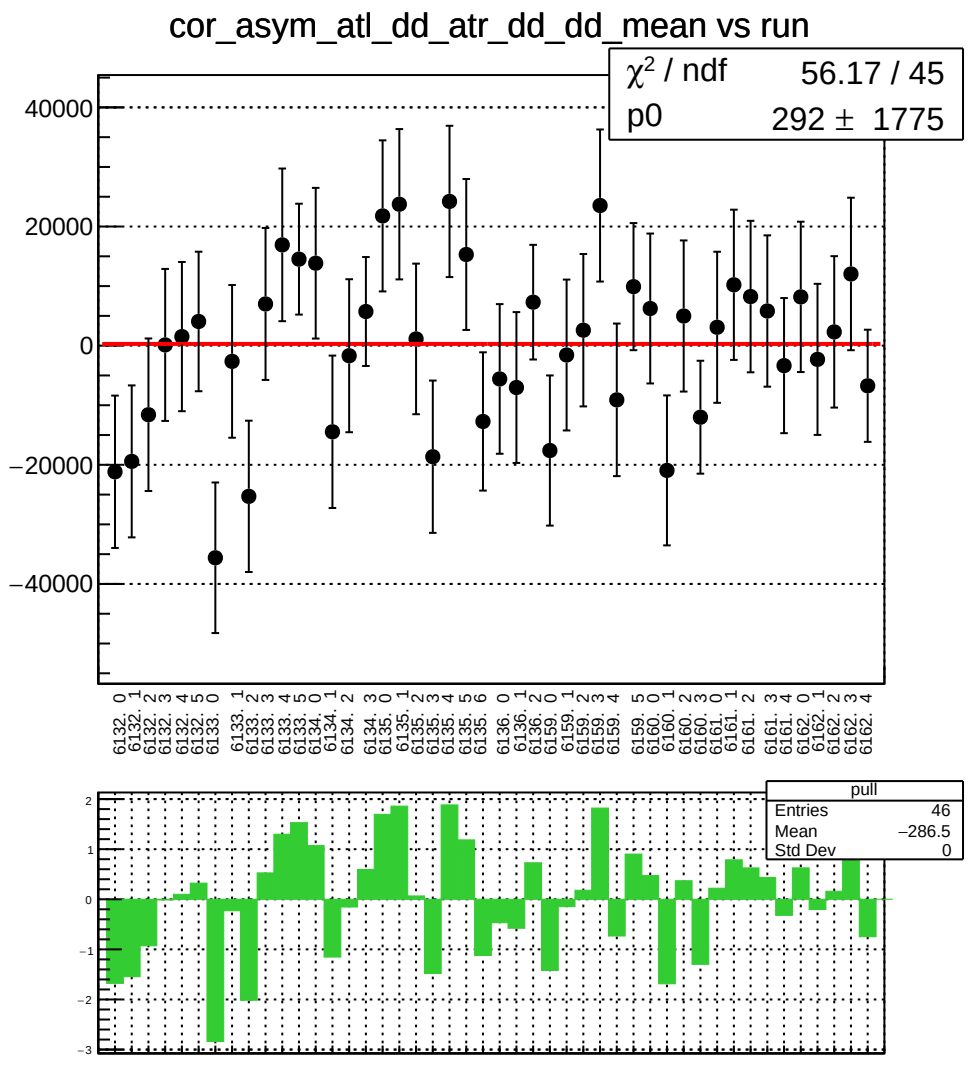

pull1D
Entries 46
Mean −0.008436
Std Dev 1.105
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

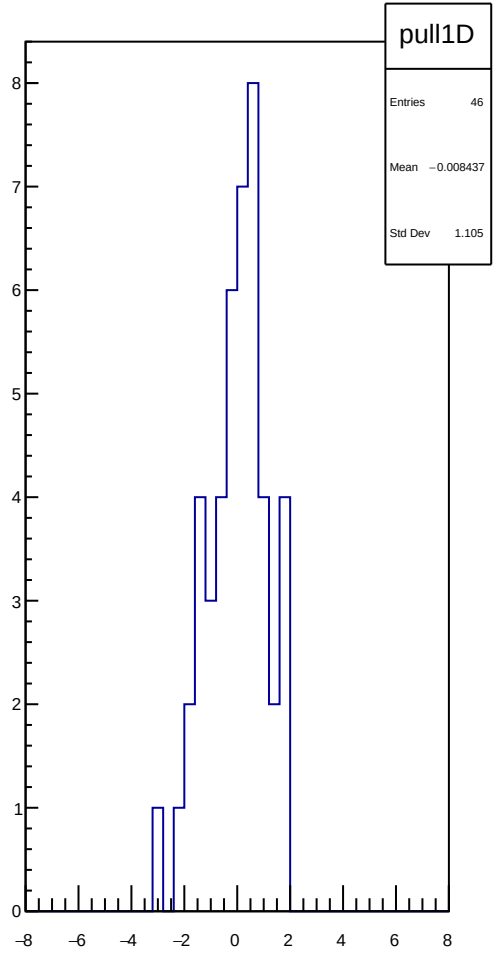

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 52.9 / 45
p0 1203 ± 1.255
1230
1220
1210
1200
1190
1180
1170
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 51.15 / 45
p0 575.5 ± 2073
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 115.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.04097
Std Dev 1.054
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_reg_correction_rms vs run
χ² / ndf 5.518e+04 / 45
p0 1362 ± 1.466
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 56.17 / 45
p0 292 ± 1775
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −286.5
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean −0.008437
Std Dev 1.105
8
7
6
5
4
3
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1
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−8
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−4
−2
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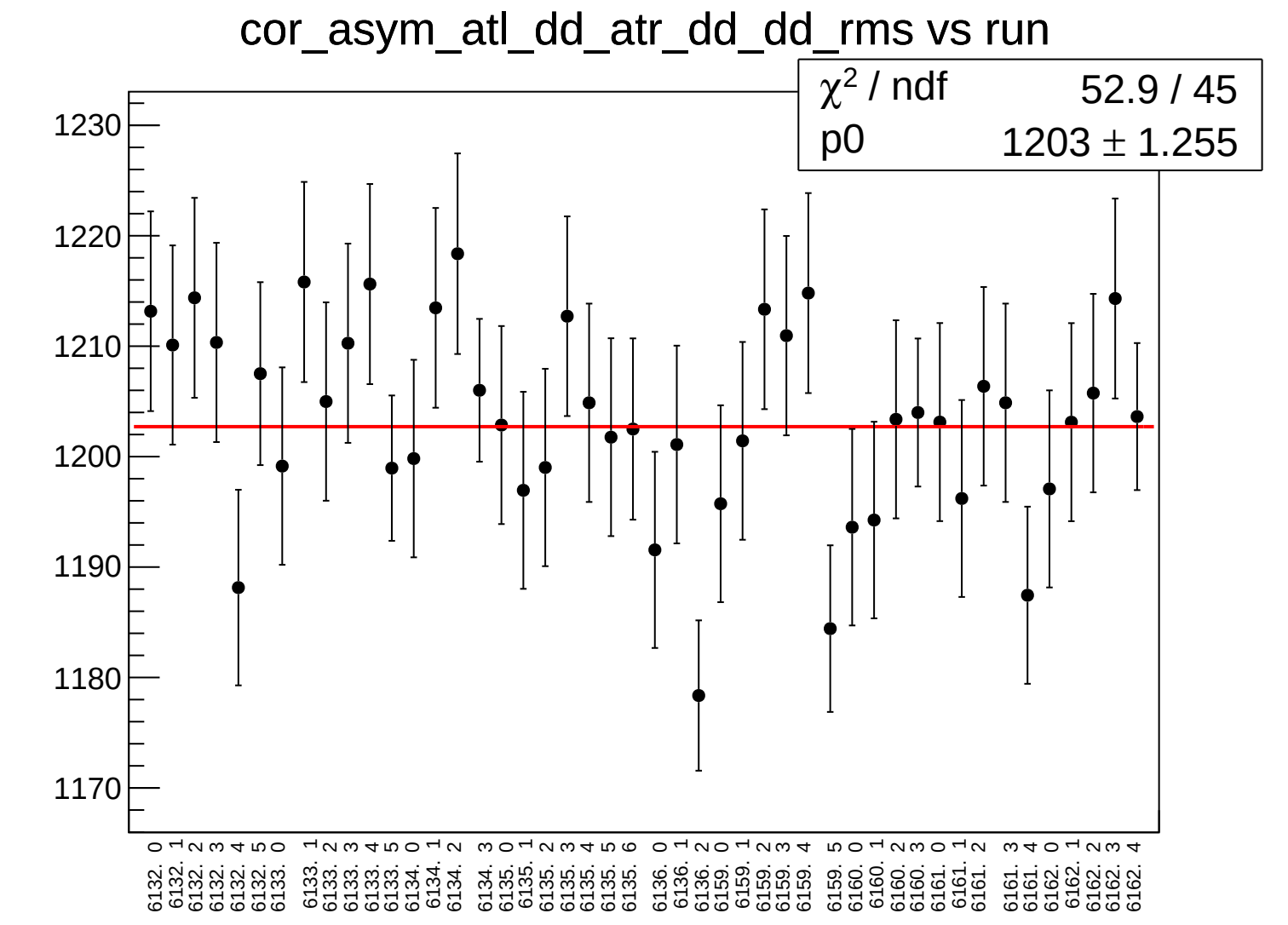
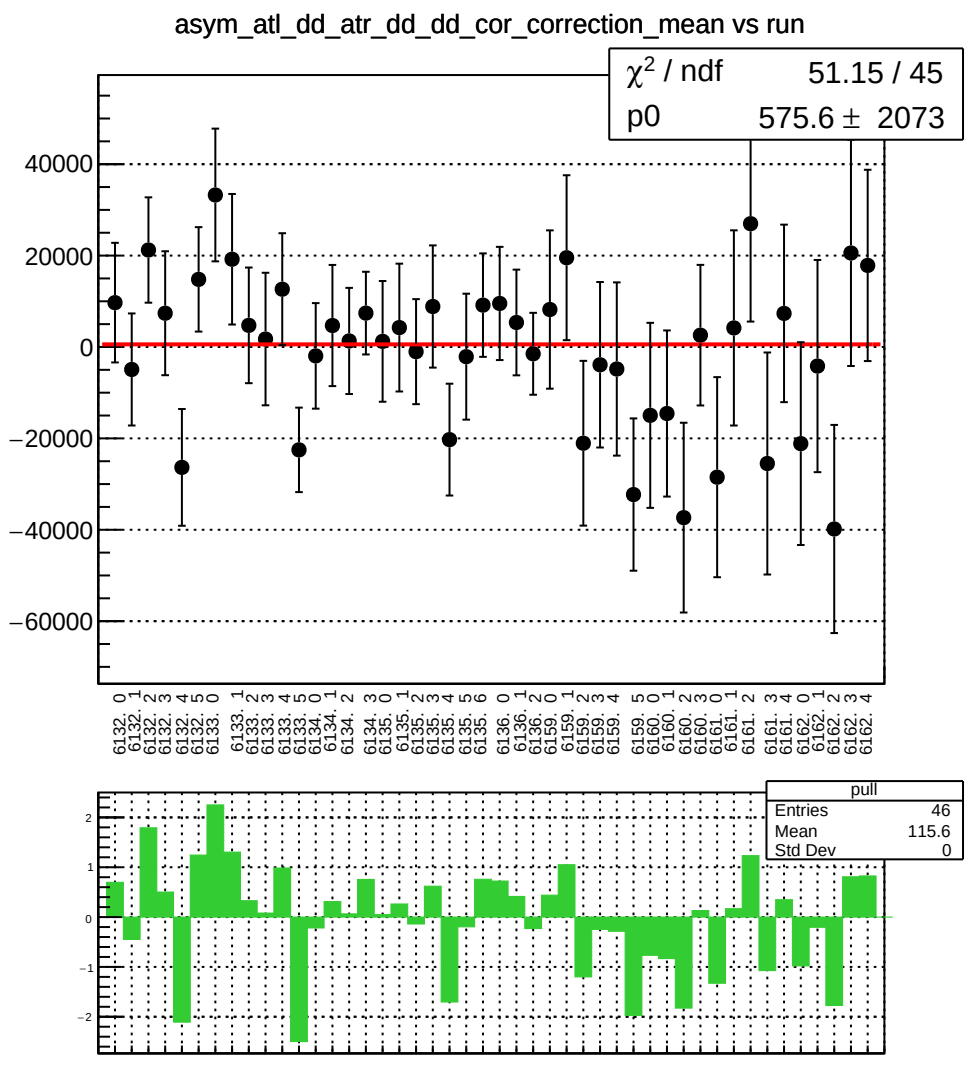
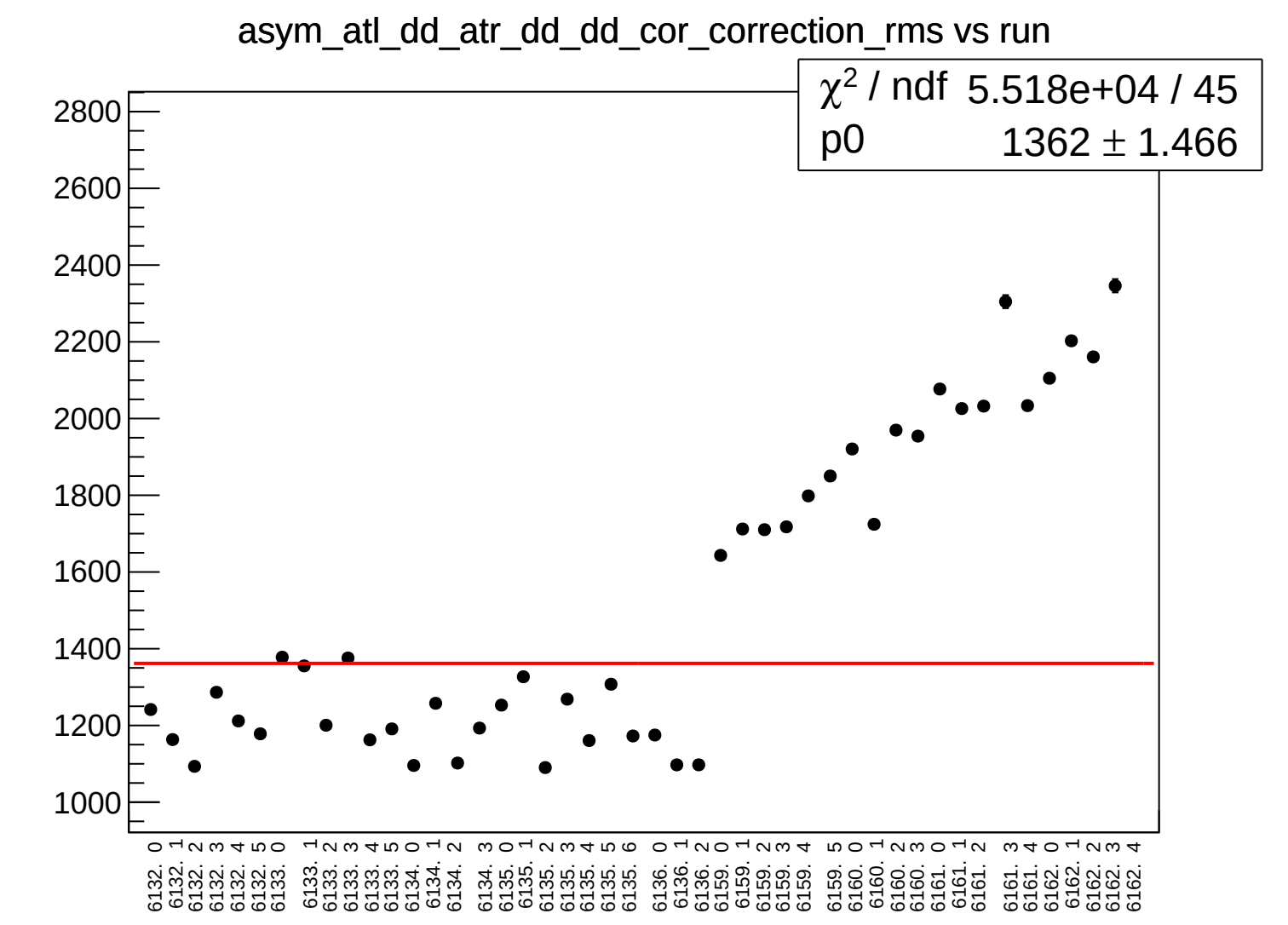
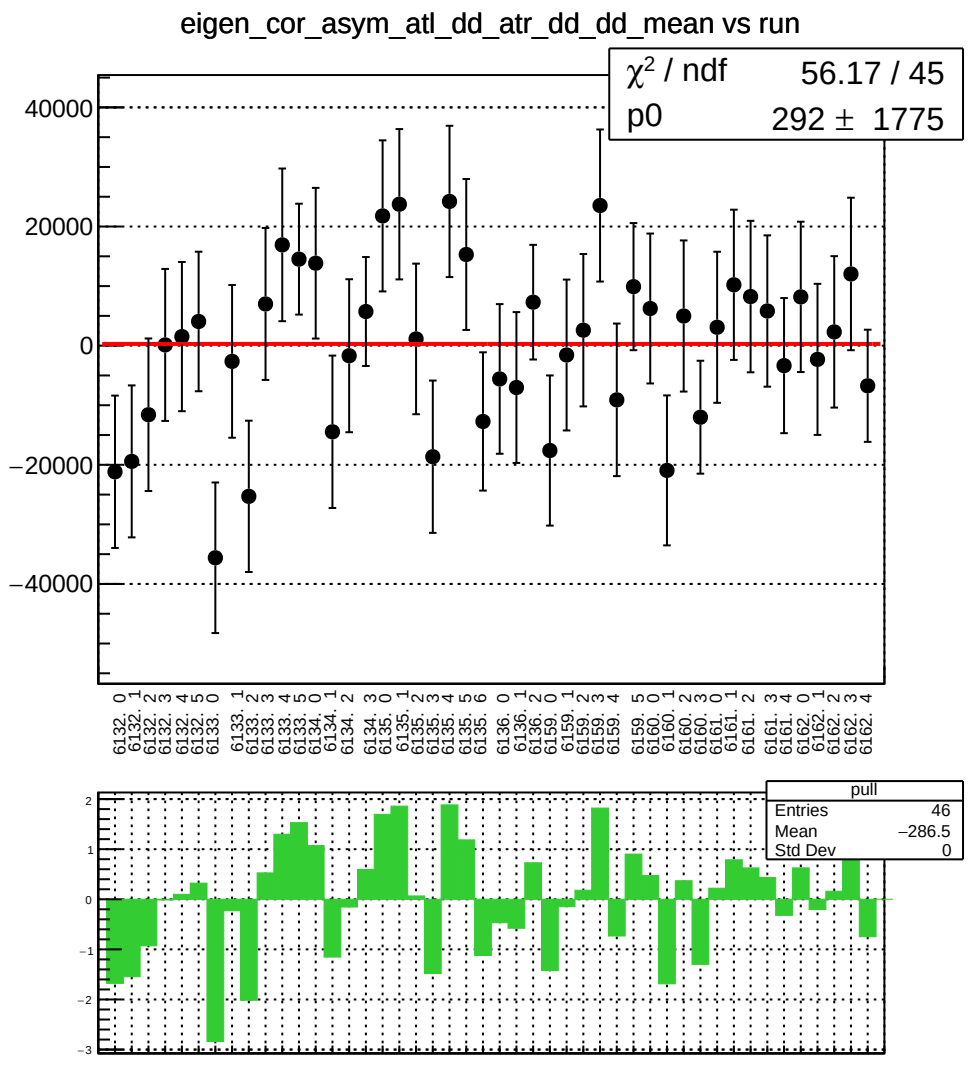
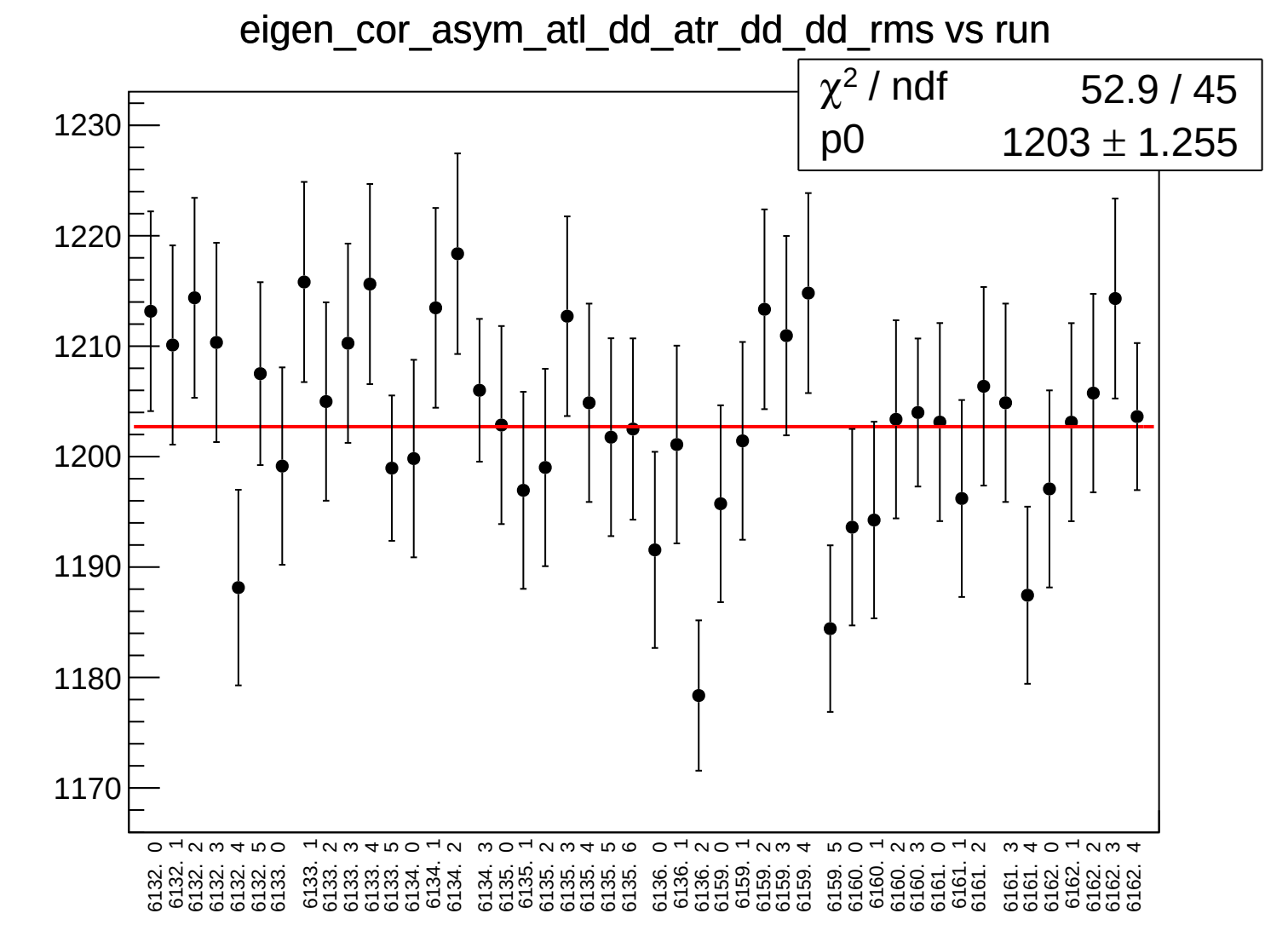
2
4
6
8


cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 52.9 / 45
p0 1203 ± 1.255
1230
1220
1210
1200
1190
1180
1170
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 51.15 / 45
p0 575.6 ± 2073
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 115.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.04096
Std Dev 1.054
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_cor_correction_rms vs run
χ² / ndf 5.518e+04 / 45
p0 1362 ± 1.466
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 56.17 / 45
p0 292 ± 1775
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −286.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.008437
Std Dev 1.105
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 52.9 / 45
p0 1203 ± 1.255
1230
1220
1210
1200
1190
1180
1170
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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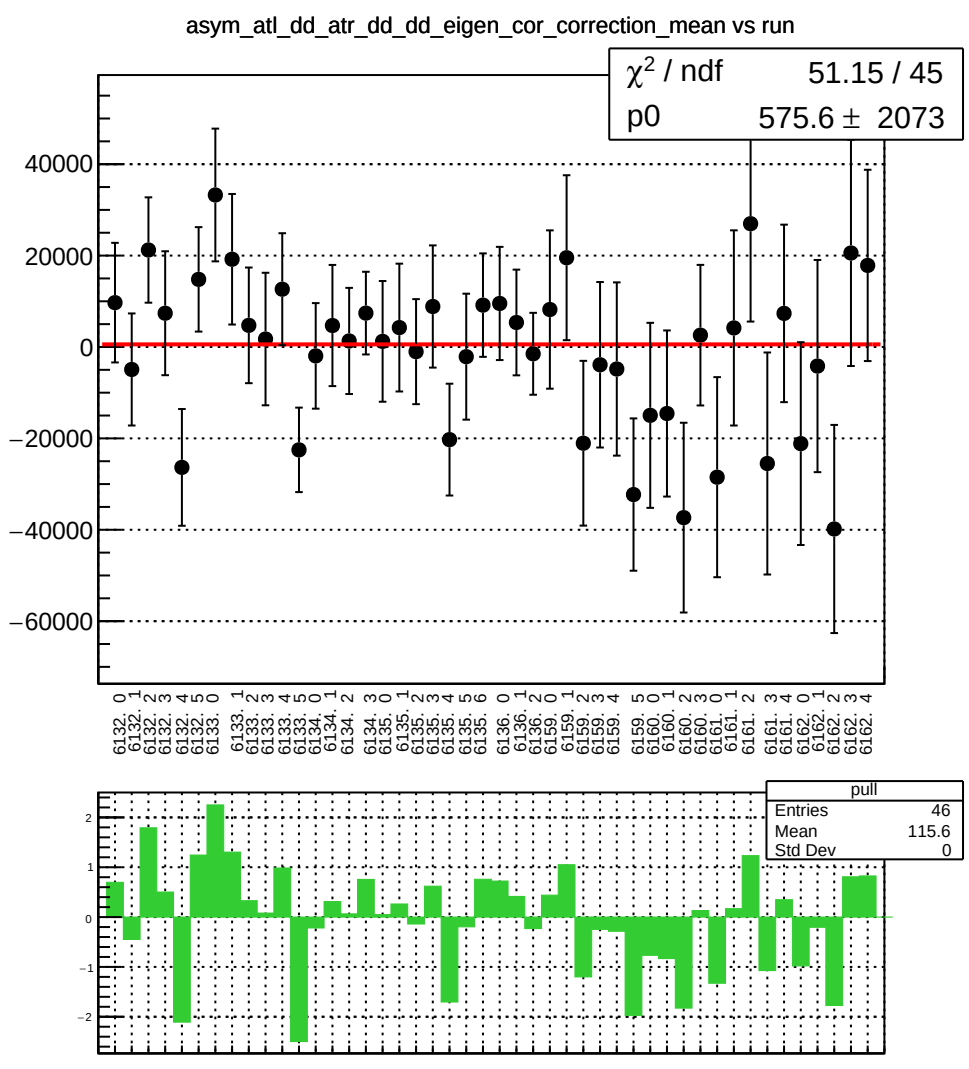
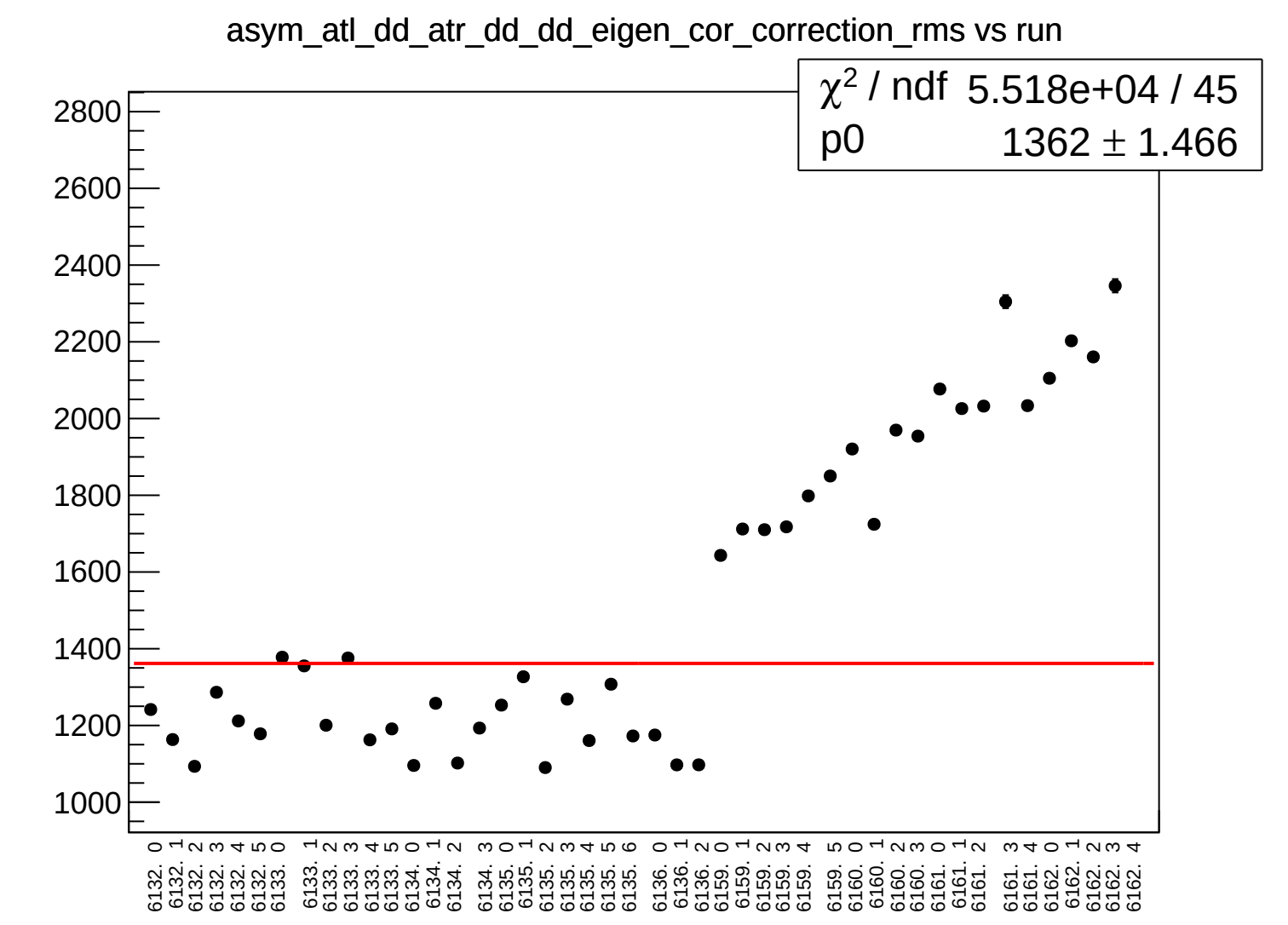
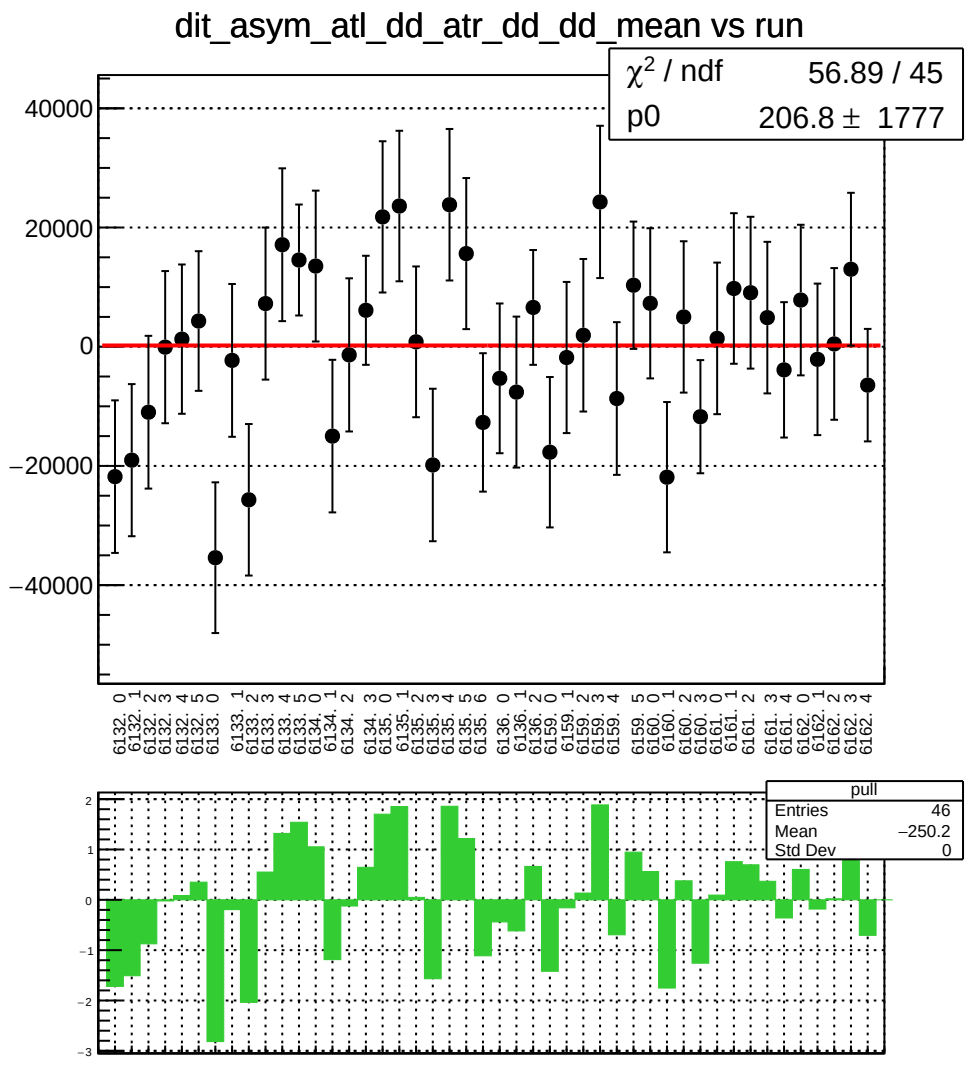
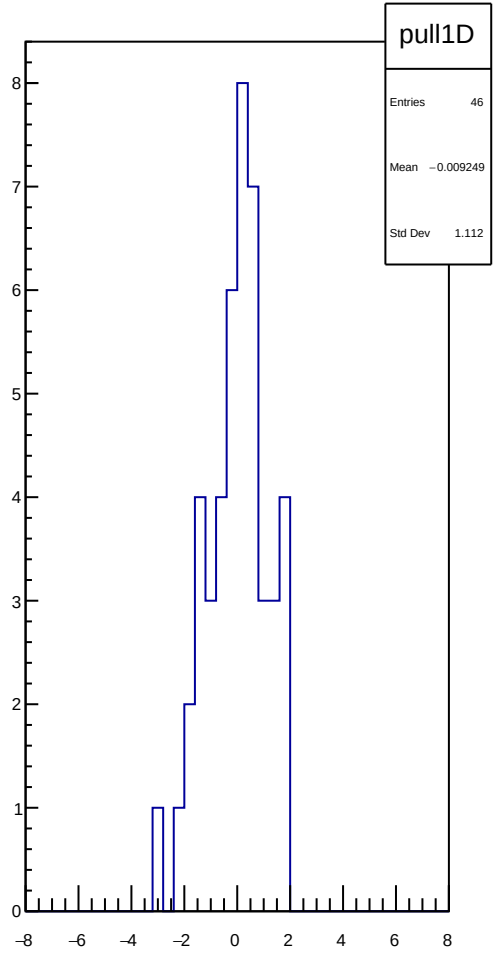
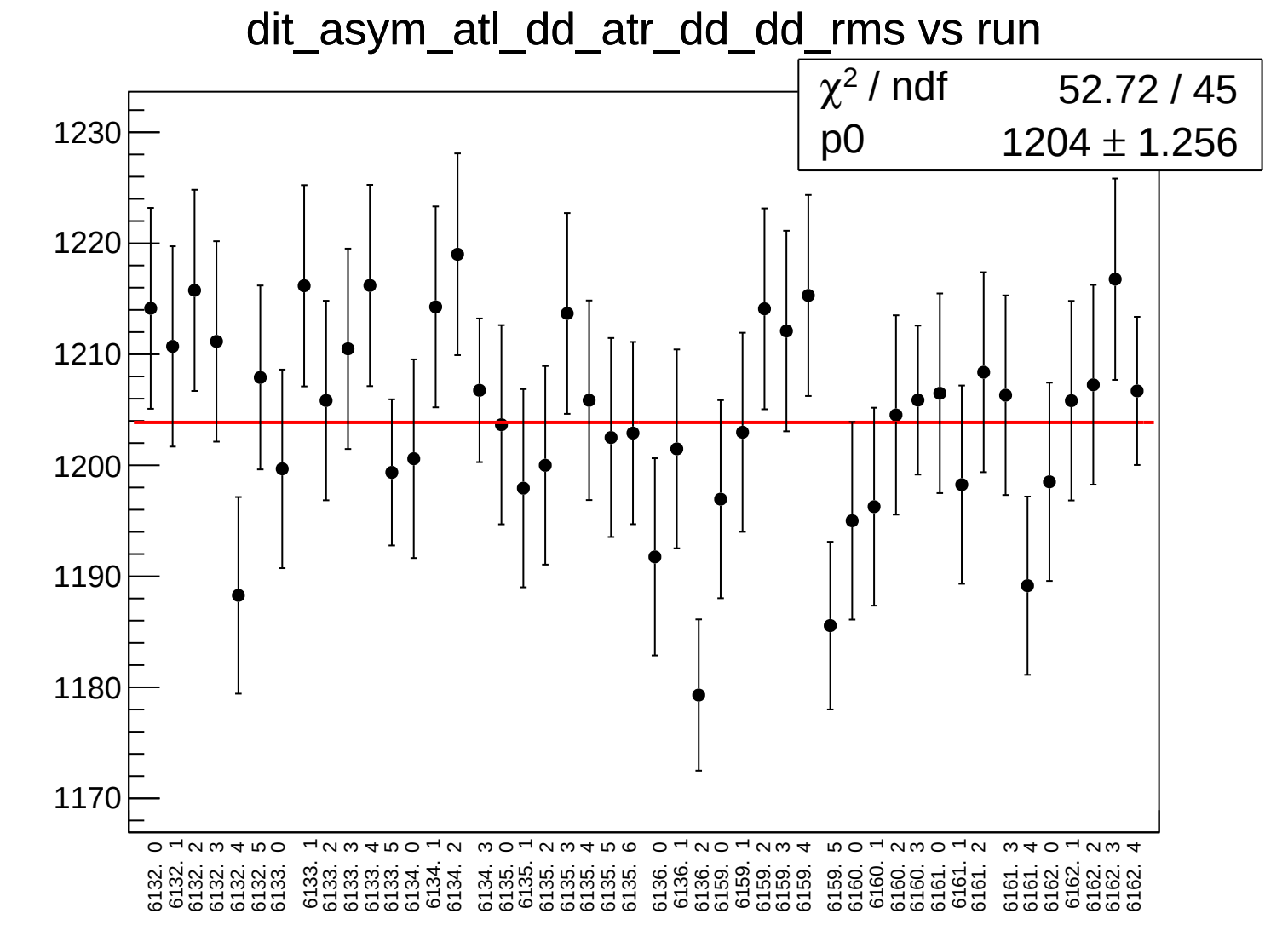
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

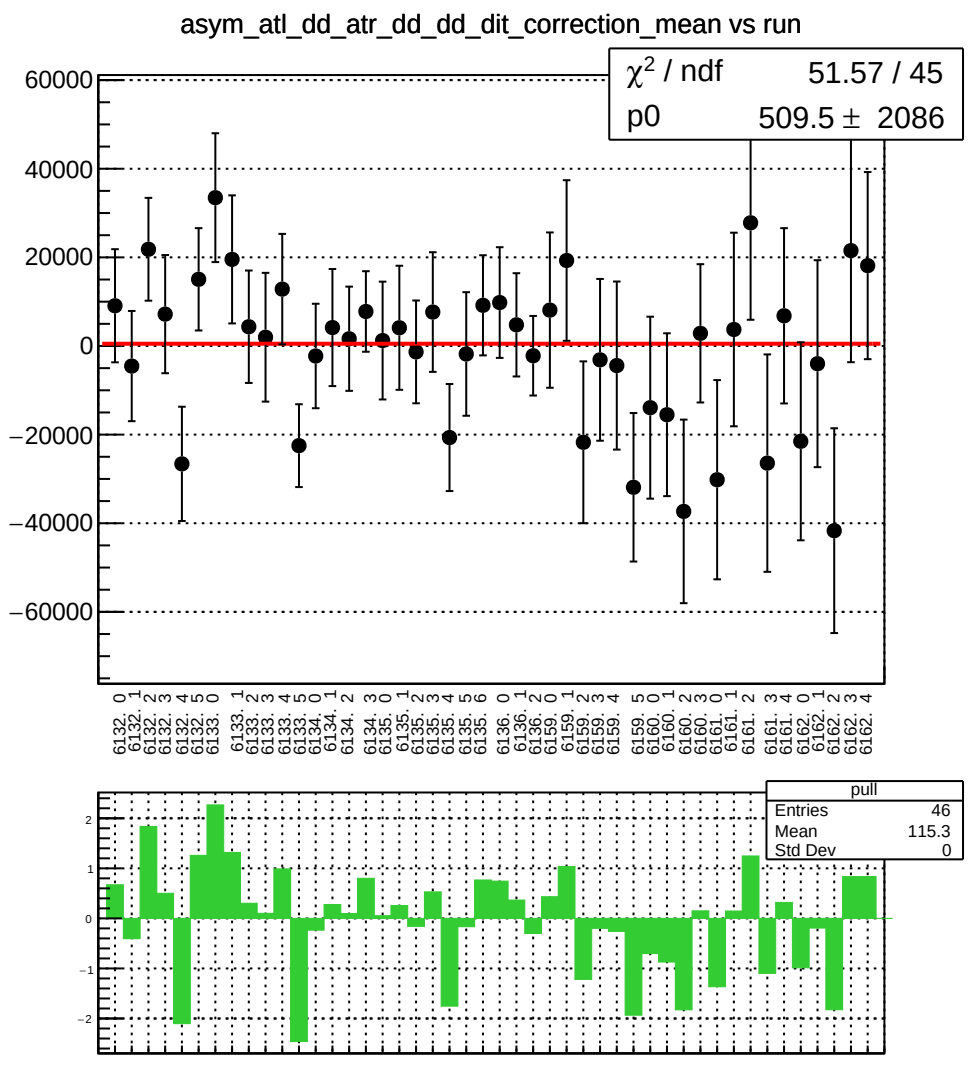

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 51.15 / 45
p0 575.6 ± 2073
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 115.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.04096
Std Dev 1.054
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

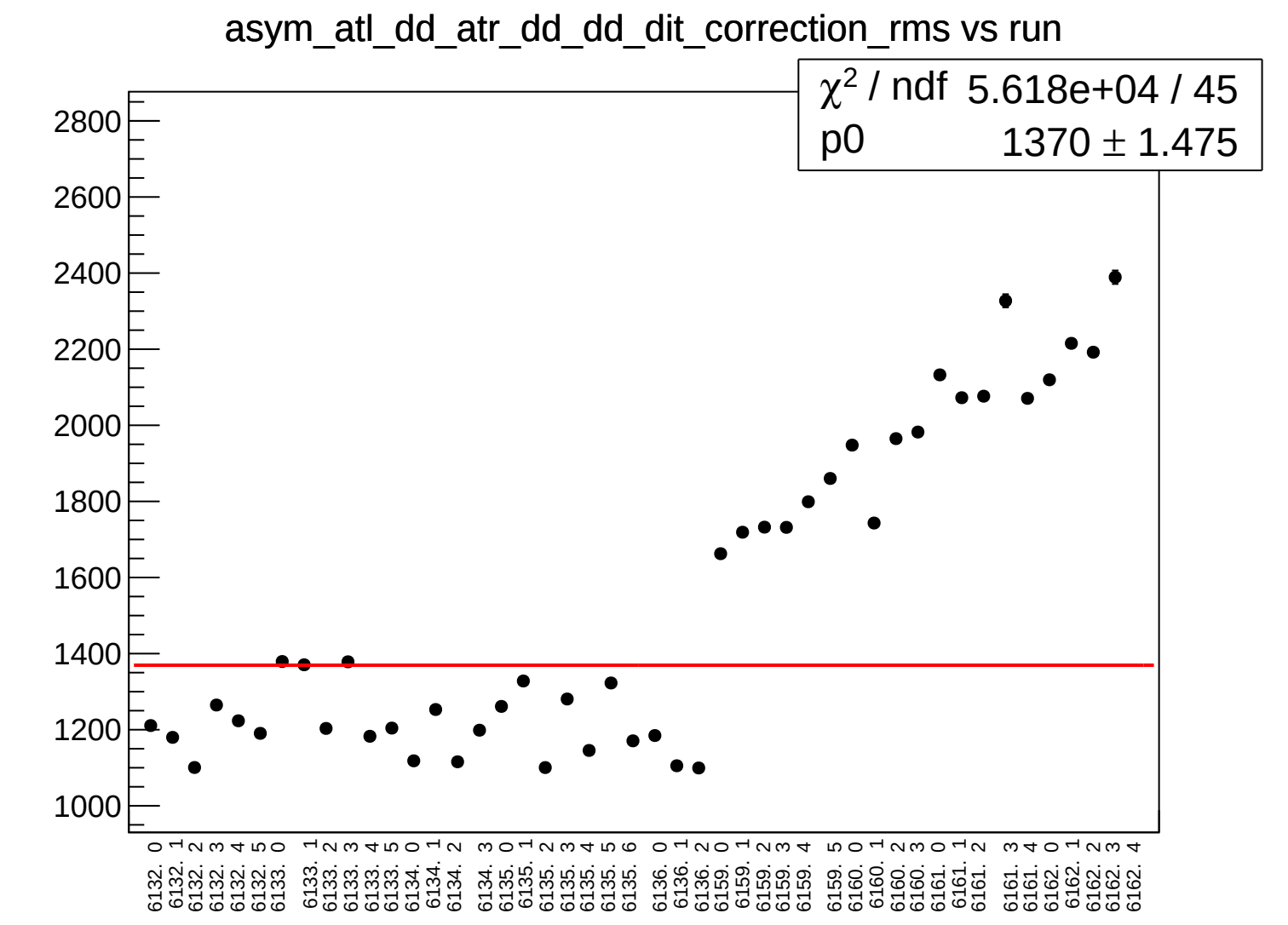

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.518e+04 / 45
p0 1362 ± 1.466
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

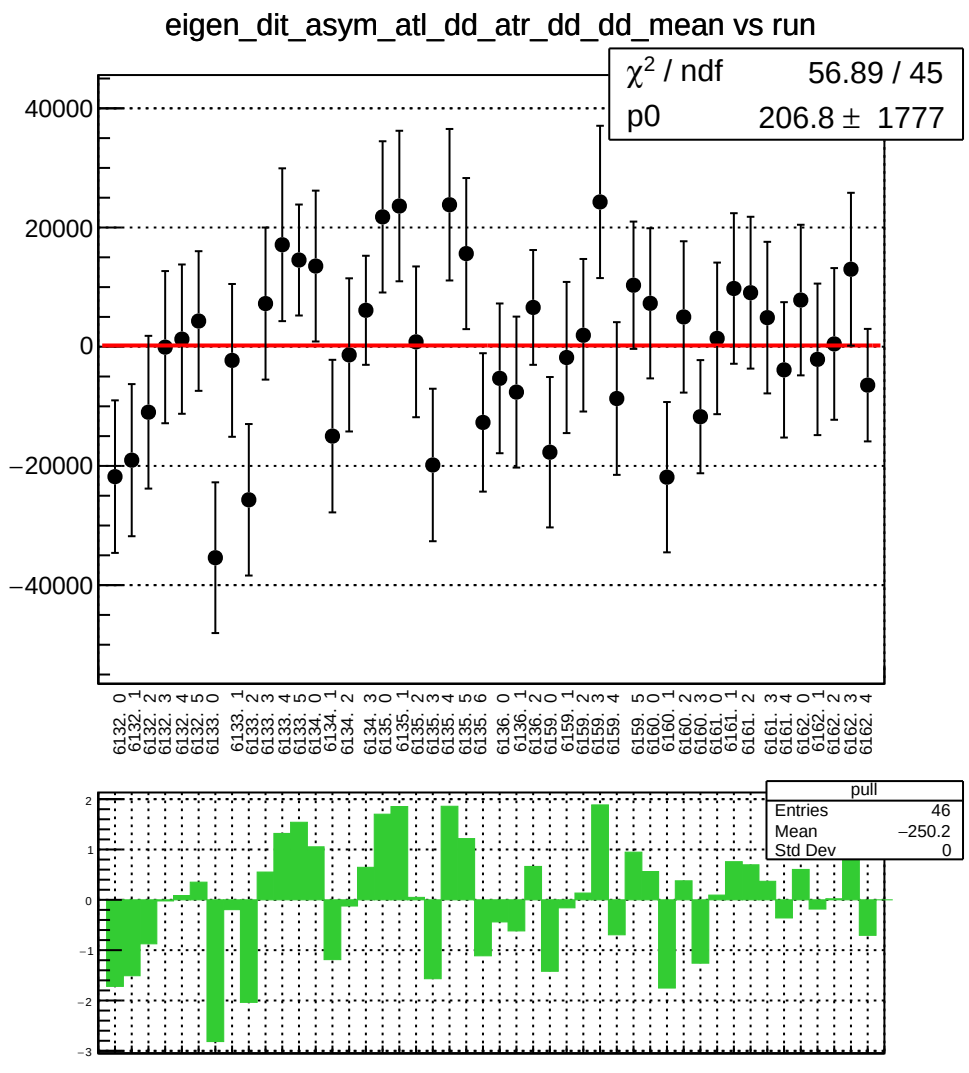

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 56.89 / 45
p0 206.8 ± 1777
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −250.2
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean −0.009249
Std Dev 1.112
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 52.72 / 45
p0 1204 ± 1.256
1230
1220
1210
1200
1190
1180
1170
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 51.57 / 45
p0 509.5 ± 2086
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 115.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.0418
Std Dev 1.058
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 5.618e+04 / 45
p0 1370 ± 1.475
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 56.89 / 45
p0 206.8 ± 1777
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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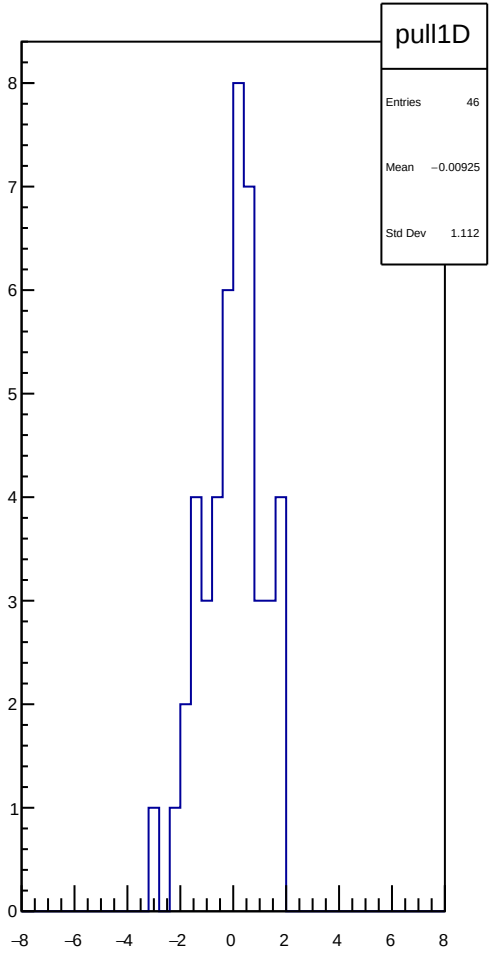
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −250.2
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean −0.00925
Std Dev 1.112
8
7
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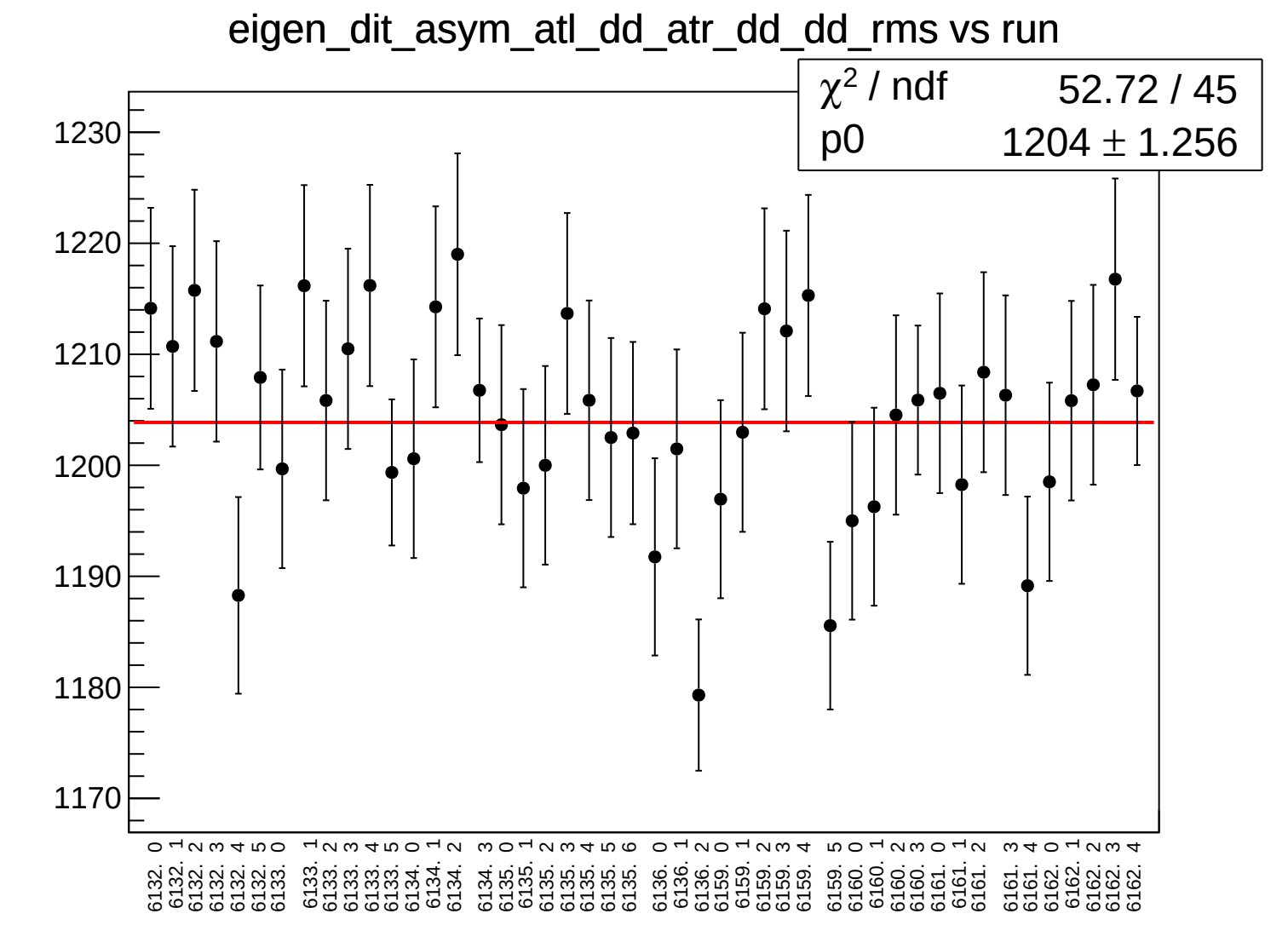
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 52.72 / 45
p0 1204 ± 1.256
1230
1220
1210
1200
1190
1180
1170
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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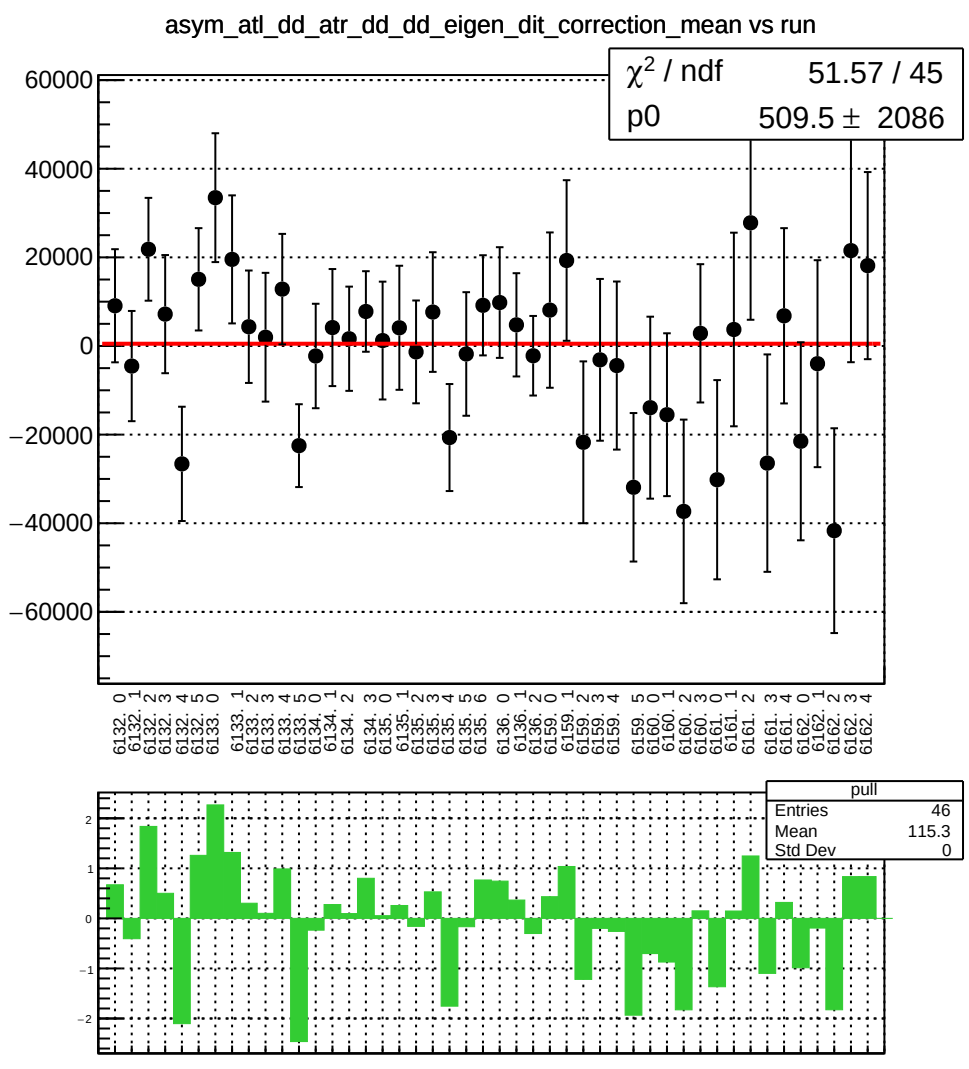
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 51.57 / 45
p0 509.5 ± 2086
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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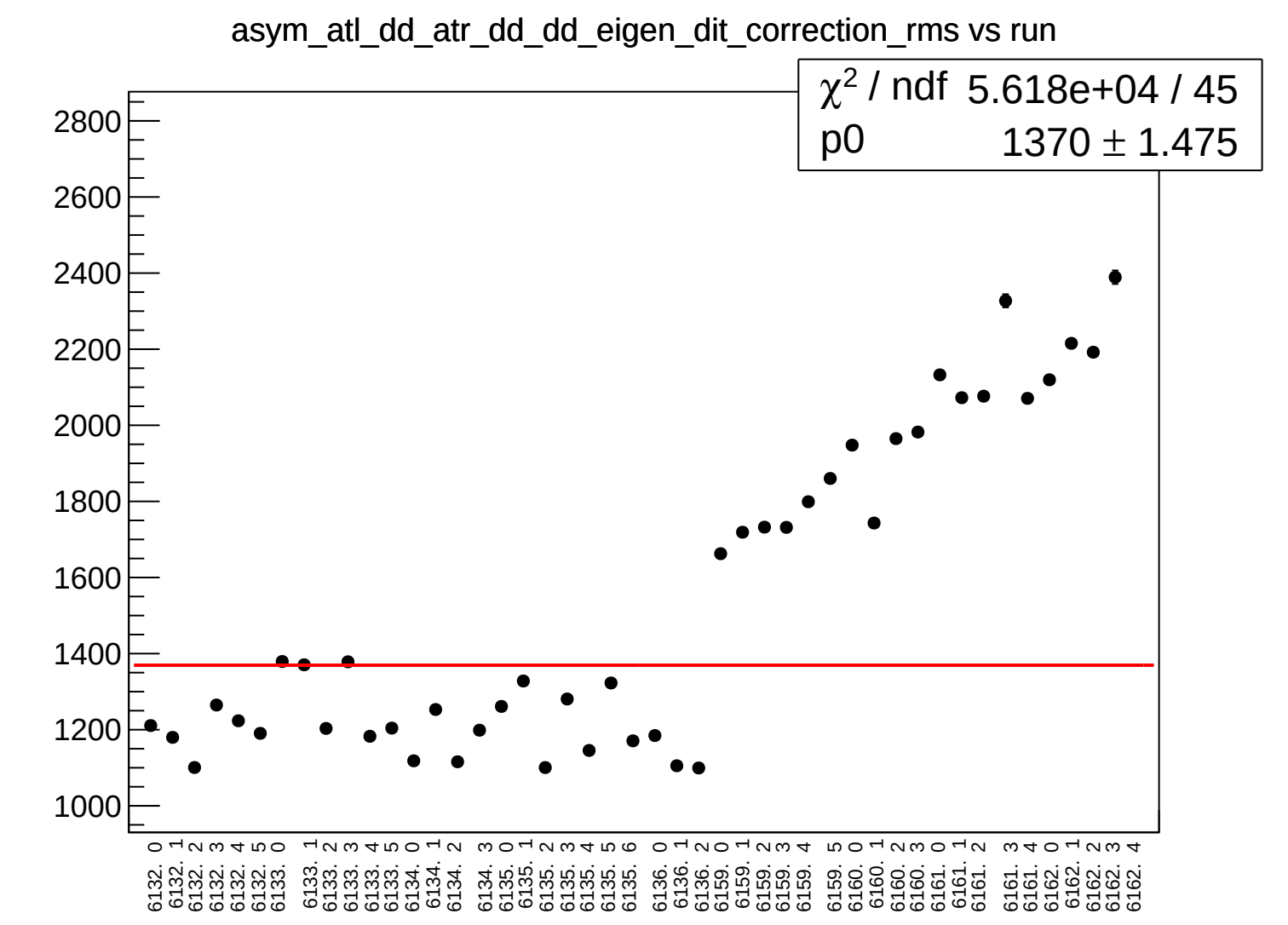
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 115.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.0418
Std Dev 1.058
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.618e+04 / 45
p0 1370 ± 1.475
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
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6134. 2
6134. 3
6135. 0
6135. 1
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6135. 3
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6135. 6
6136. 0
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6159. 0
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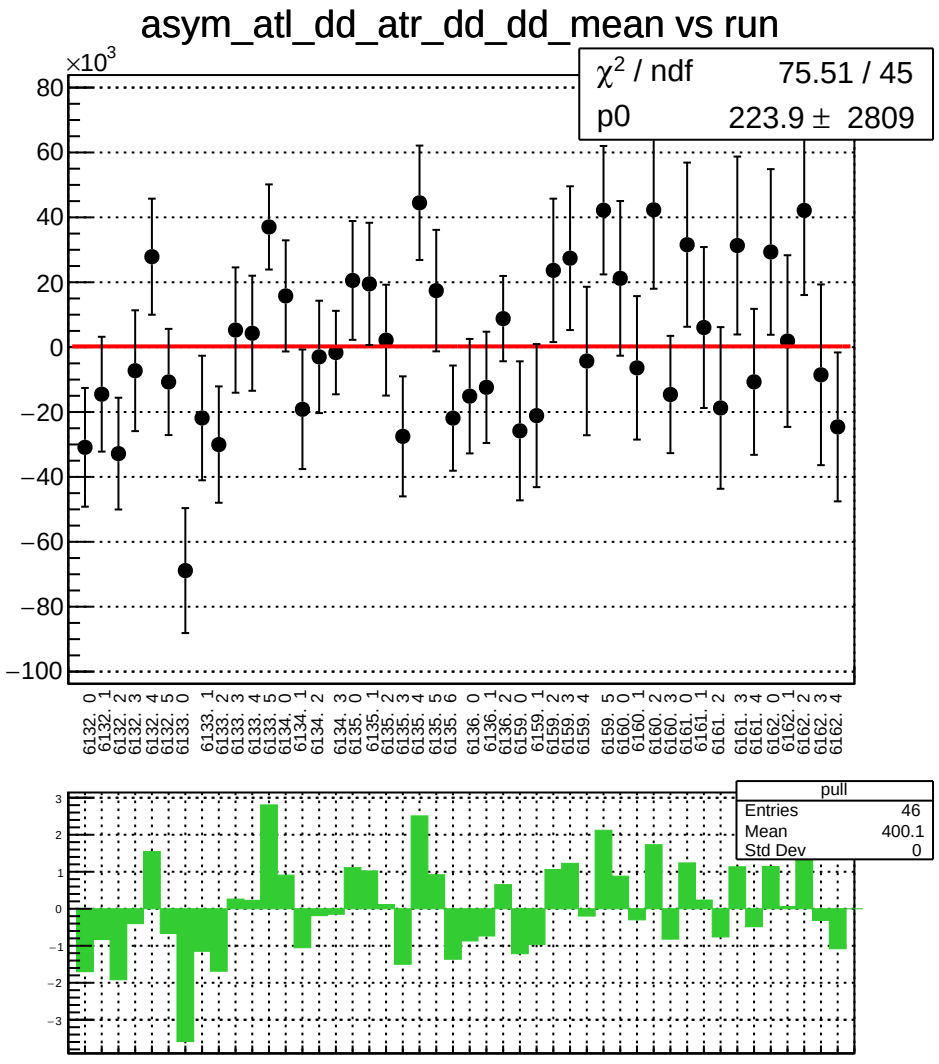
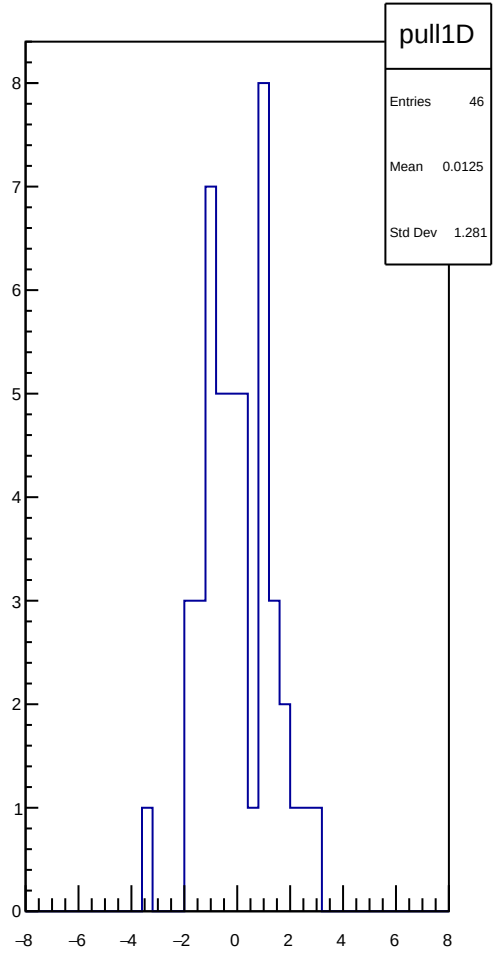
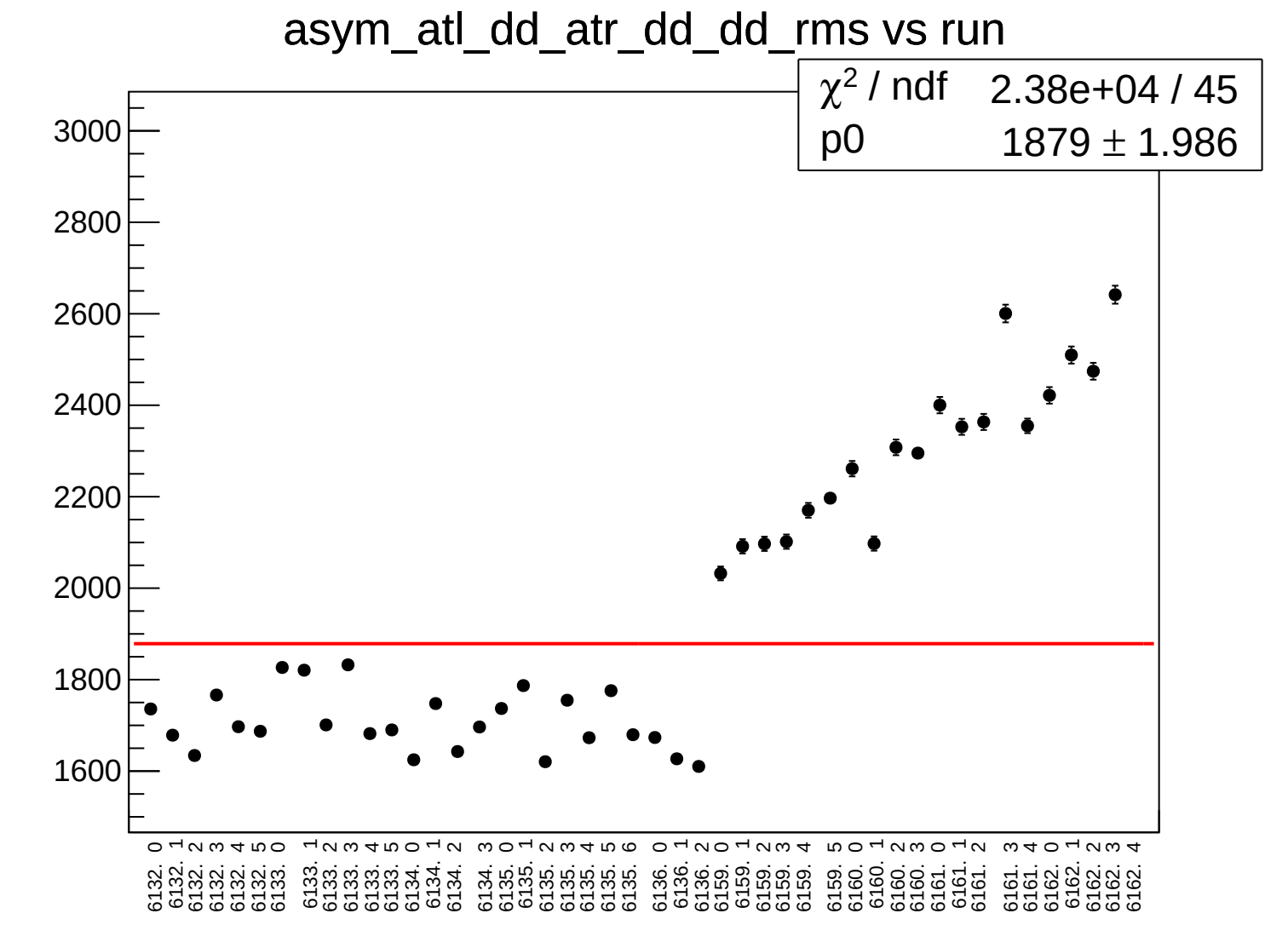
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 75.51 / 45
p0 223.9 ± 2809
pull
Entries 46
Mean 400.1
Std Dev 0


pull1D
Entries 46
Mean 0.0125
Std Dev 1.281


asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 2.38e+04 / 45
p0 1879 ± 1.986
3000
2800
2600
2400
2200
2000
1800
1600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
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6161. 3
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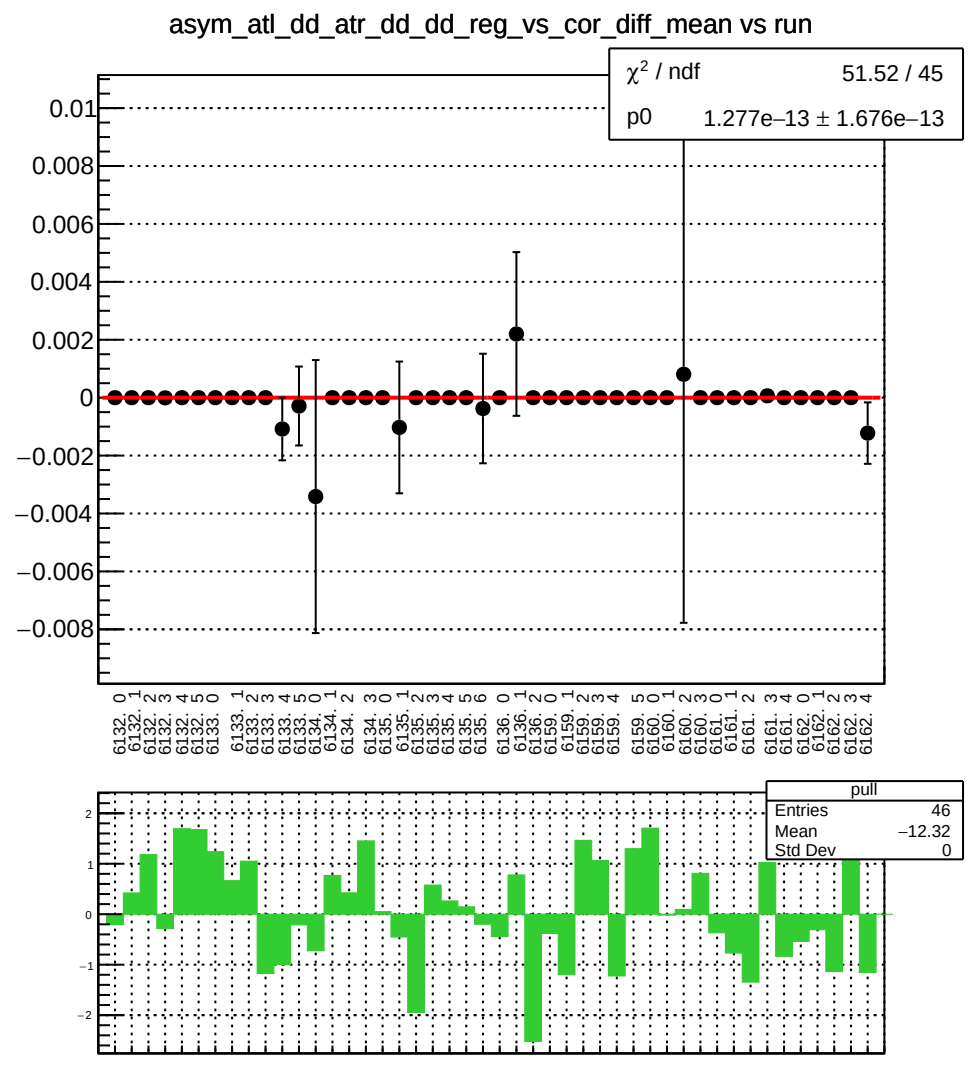
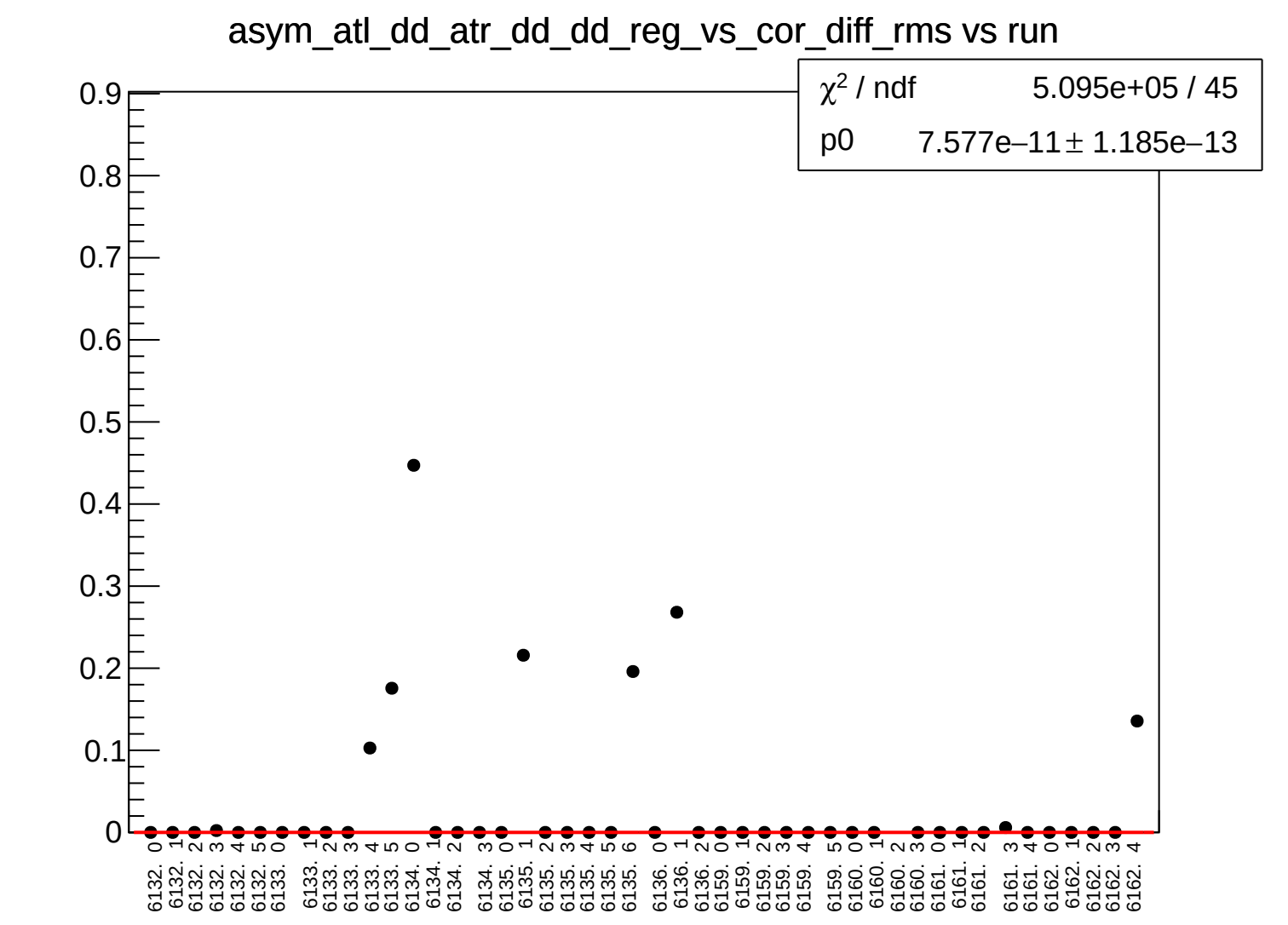
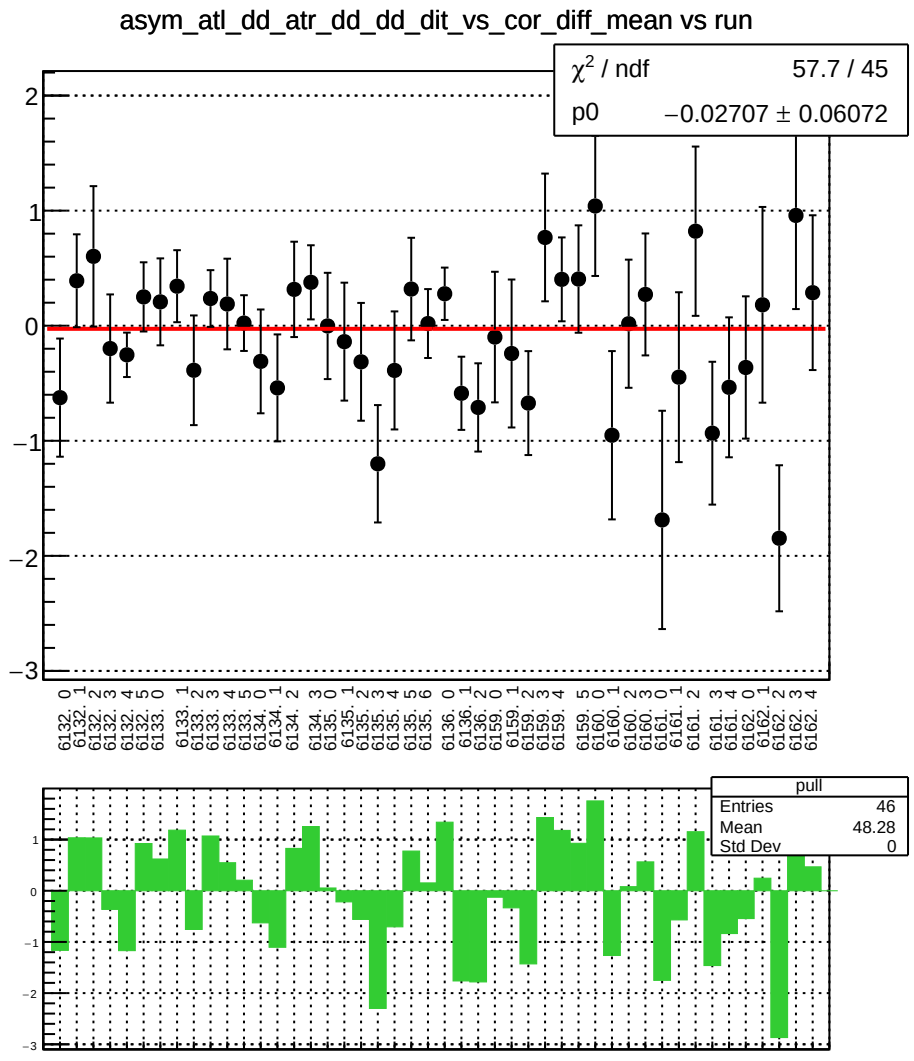
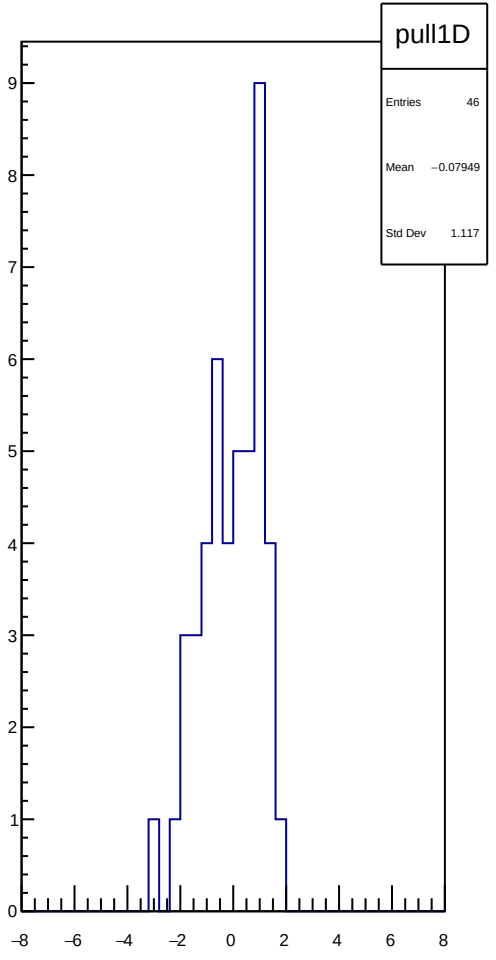
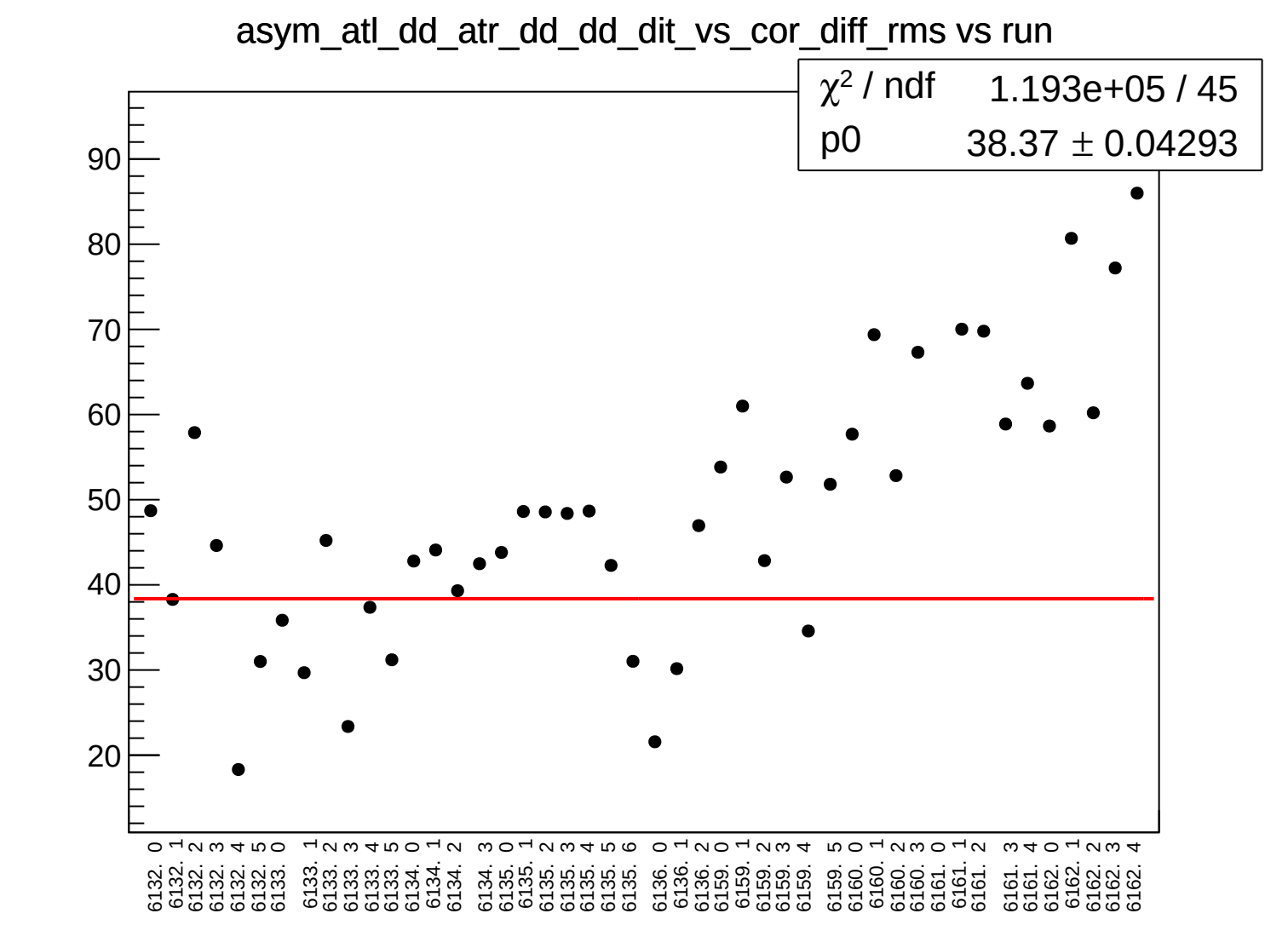
6162. 2
6162. 3
6162. 4

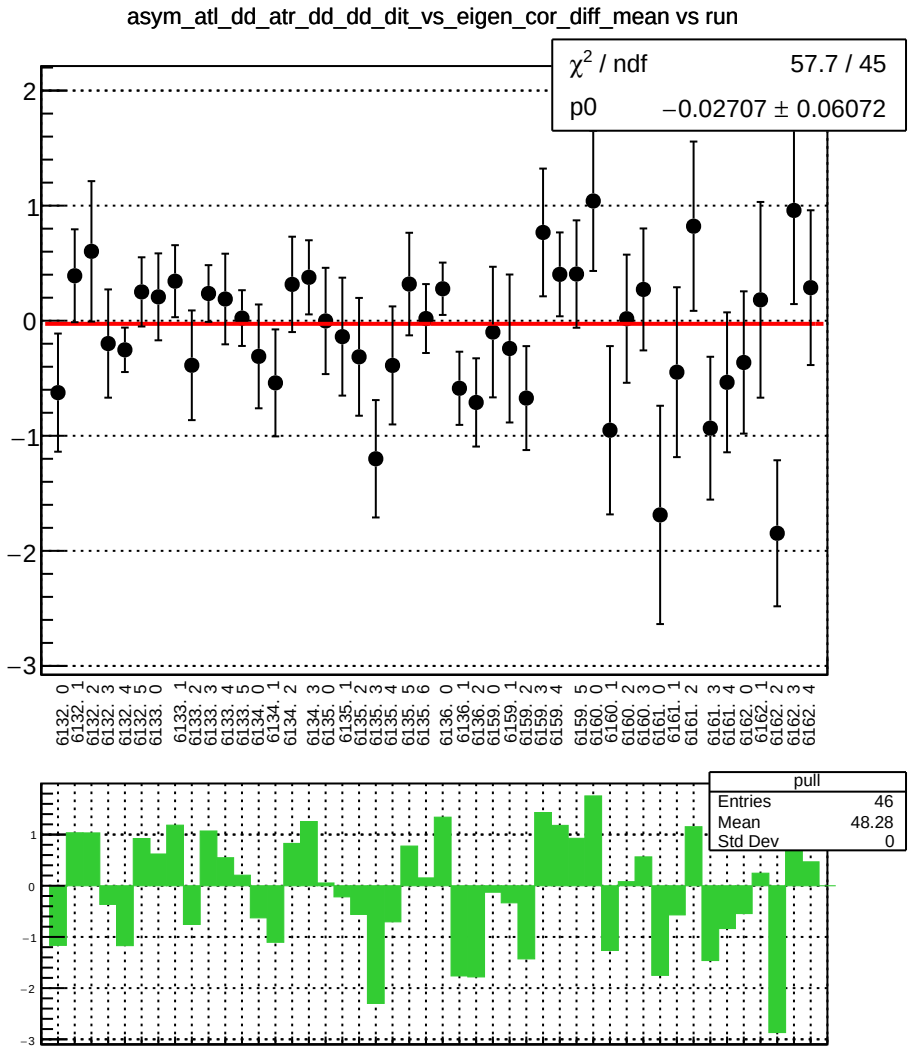

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 51.52 / 45
p0 1.277e−13 ± 1.676e−13
0.01
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −12.32
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.0779
Std Dev 1.055
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

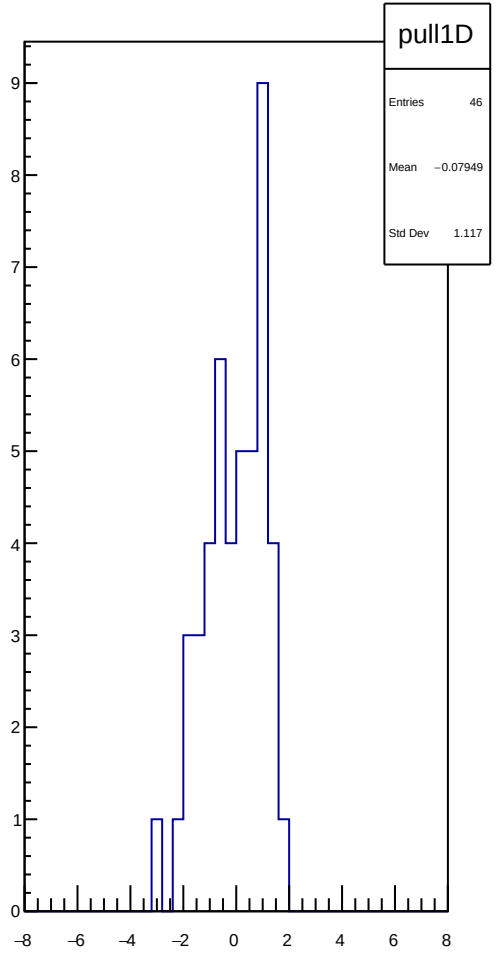

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.095e+05 / 45
p0 7.577e−11 ± 1.185e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

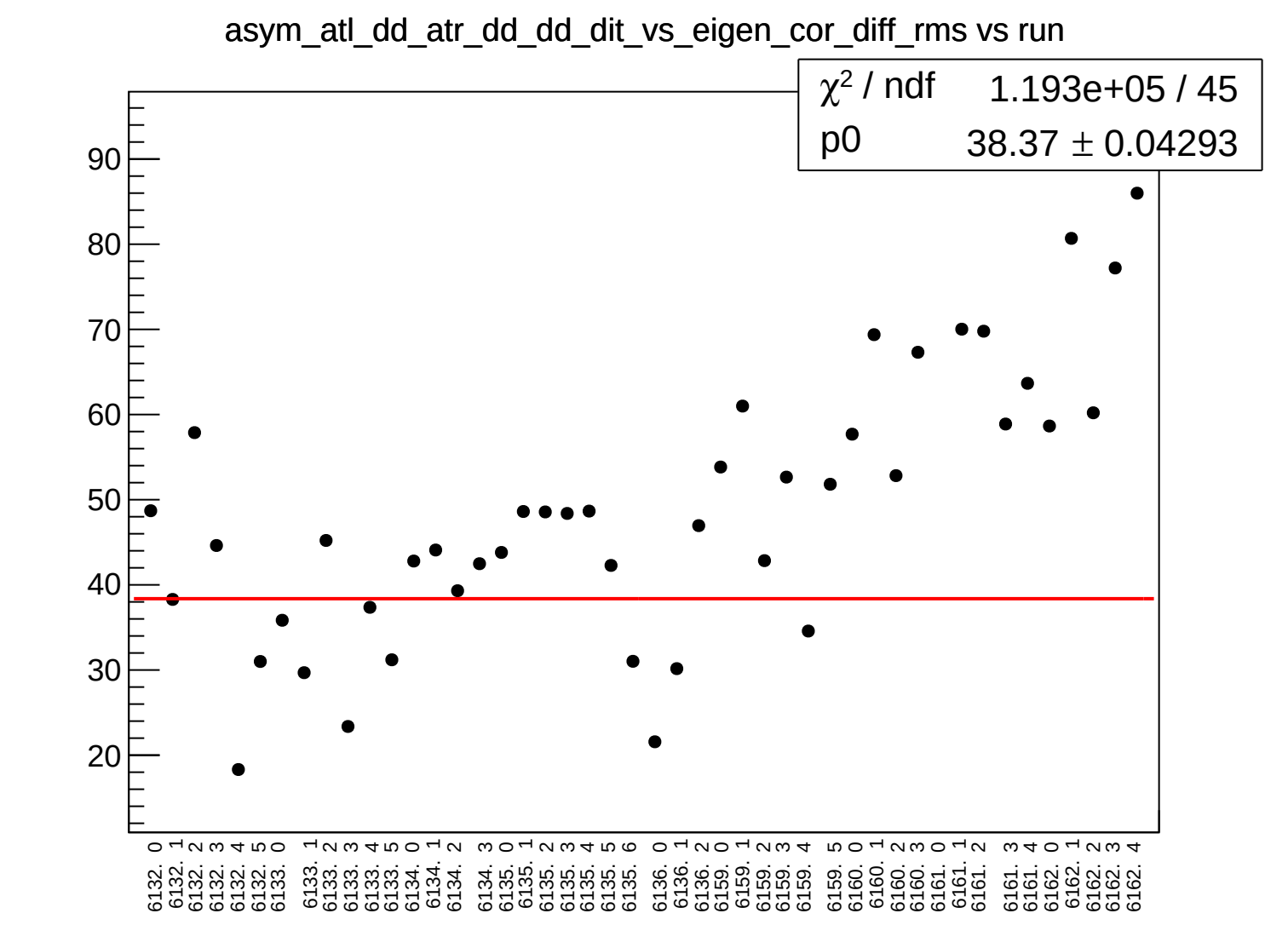

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 57.7 / 45
p0 −0.02707 ± 0.06072
pull
Entries 46
Mean 48.28
Std Dev 0

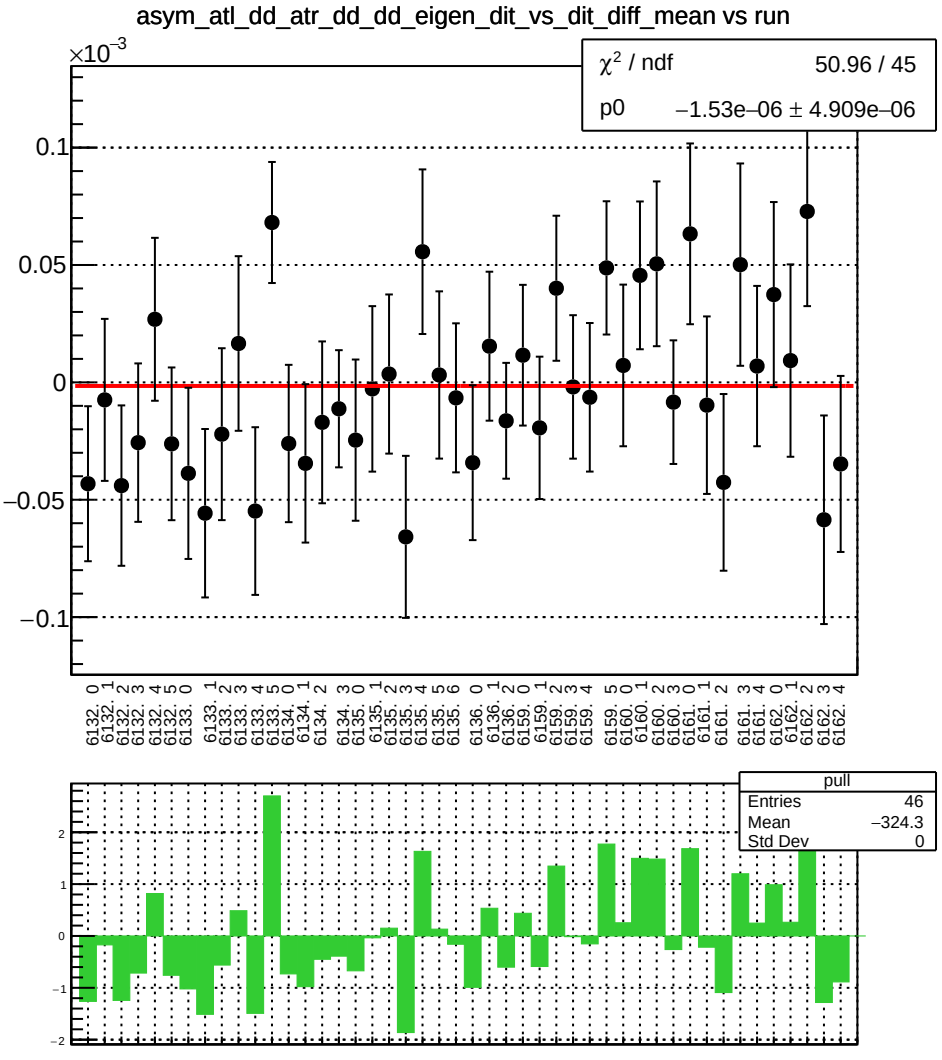

pull1D
Entries 46
Mean −0.07949
Std Dev 1.117

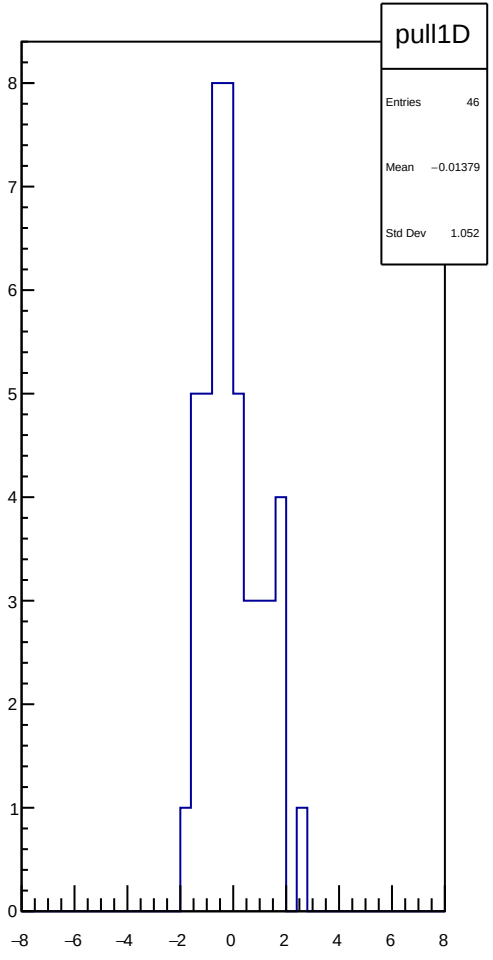

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.193e+05 / 45
p0 38.37 ± 0.04293
90
80
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

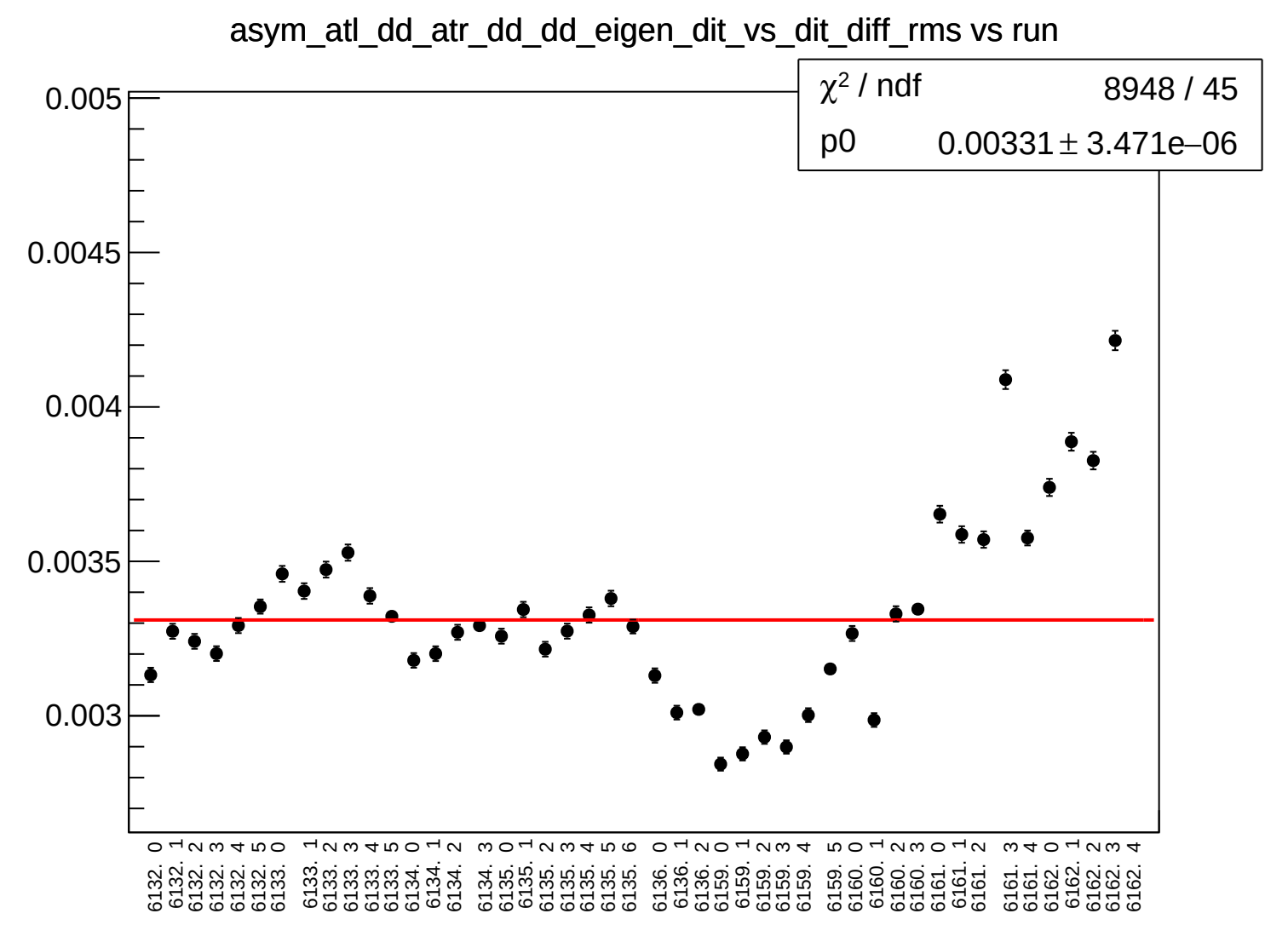

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.7 / 45
p0 −0.02707 ± 0.06072
pull
Entries 46
Mean 48.28
Std Dev 0

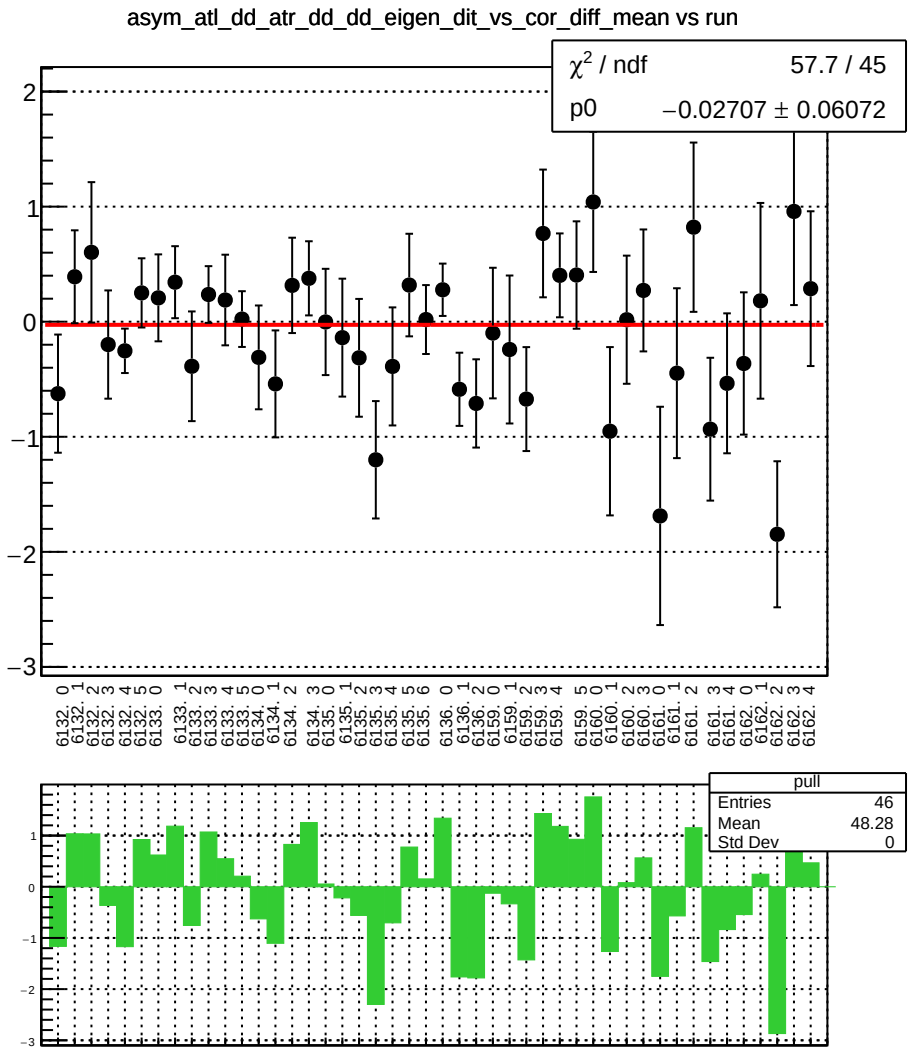

pull1D
Entries 46
Mean −0.07949
Std Dev 1.117

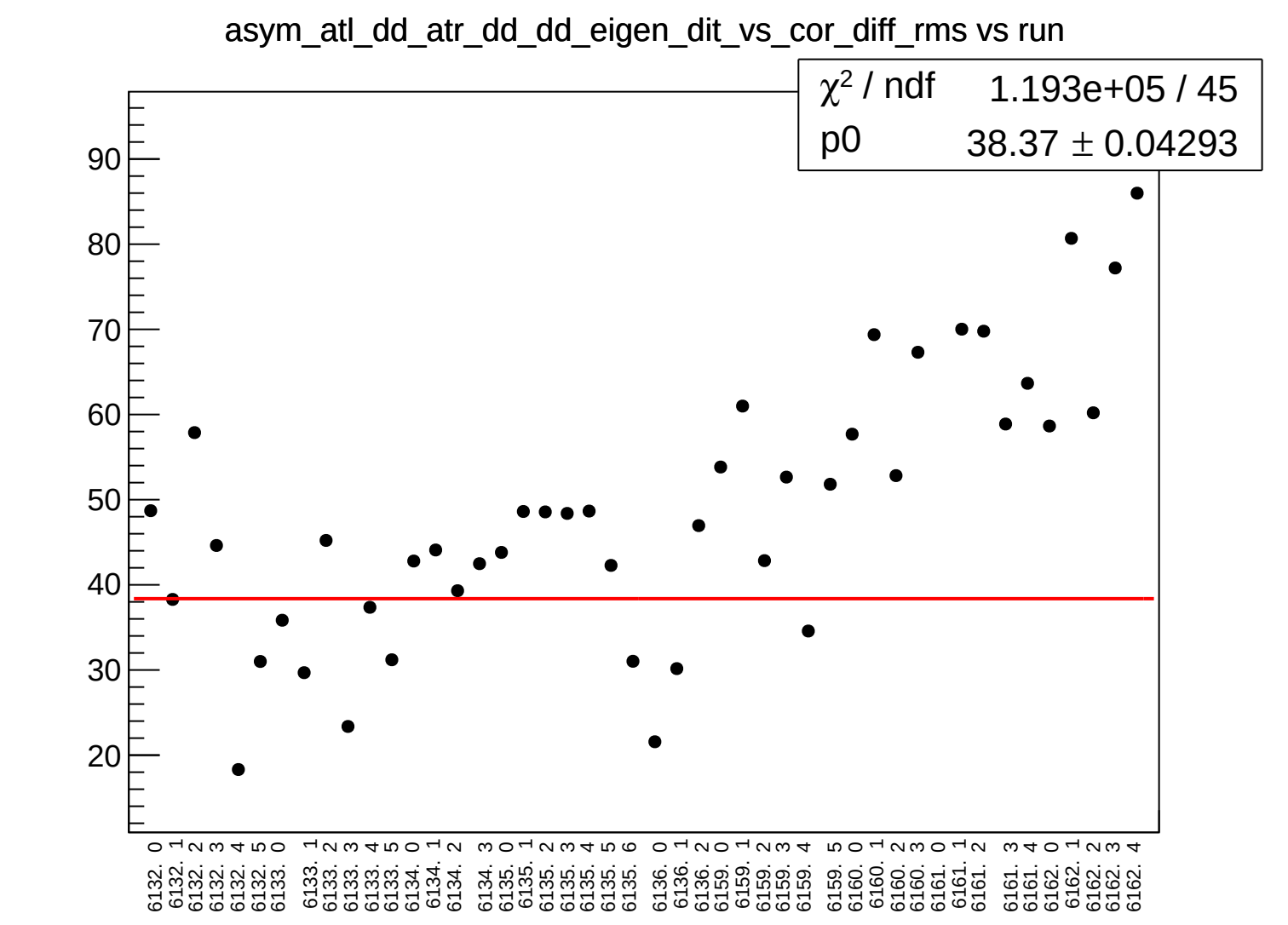

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.193e+05 / 45
p0 38.37 ± 0.04293
90
80
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

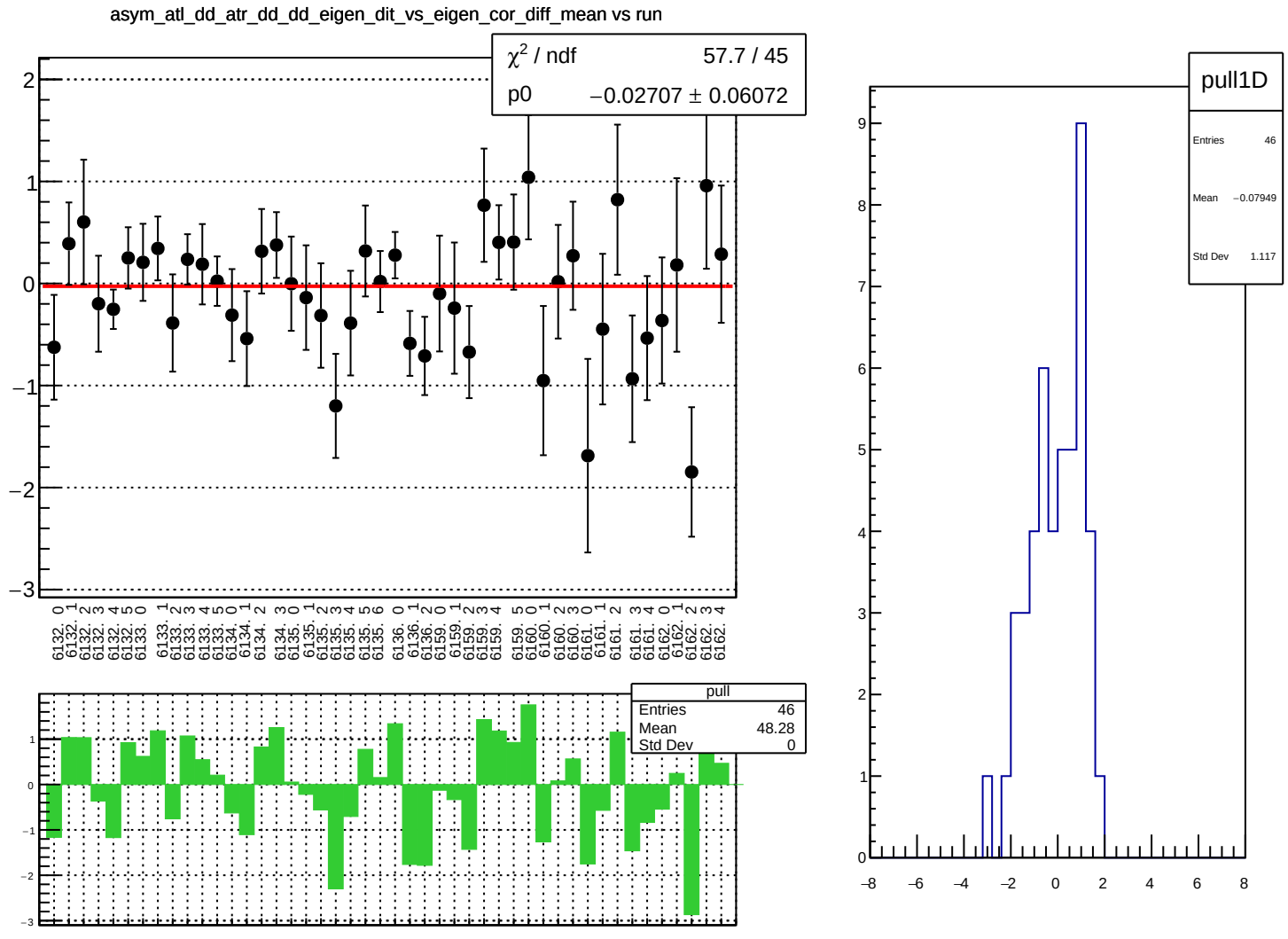

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 50.96 / 45
p0 −1.53e−06 ± 4.909e−06
0.1
0.05
0
−0.05
−0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −324.3
Std Dev 0
2
1
0
−1
−2

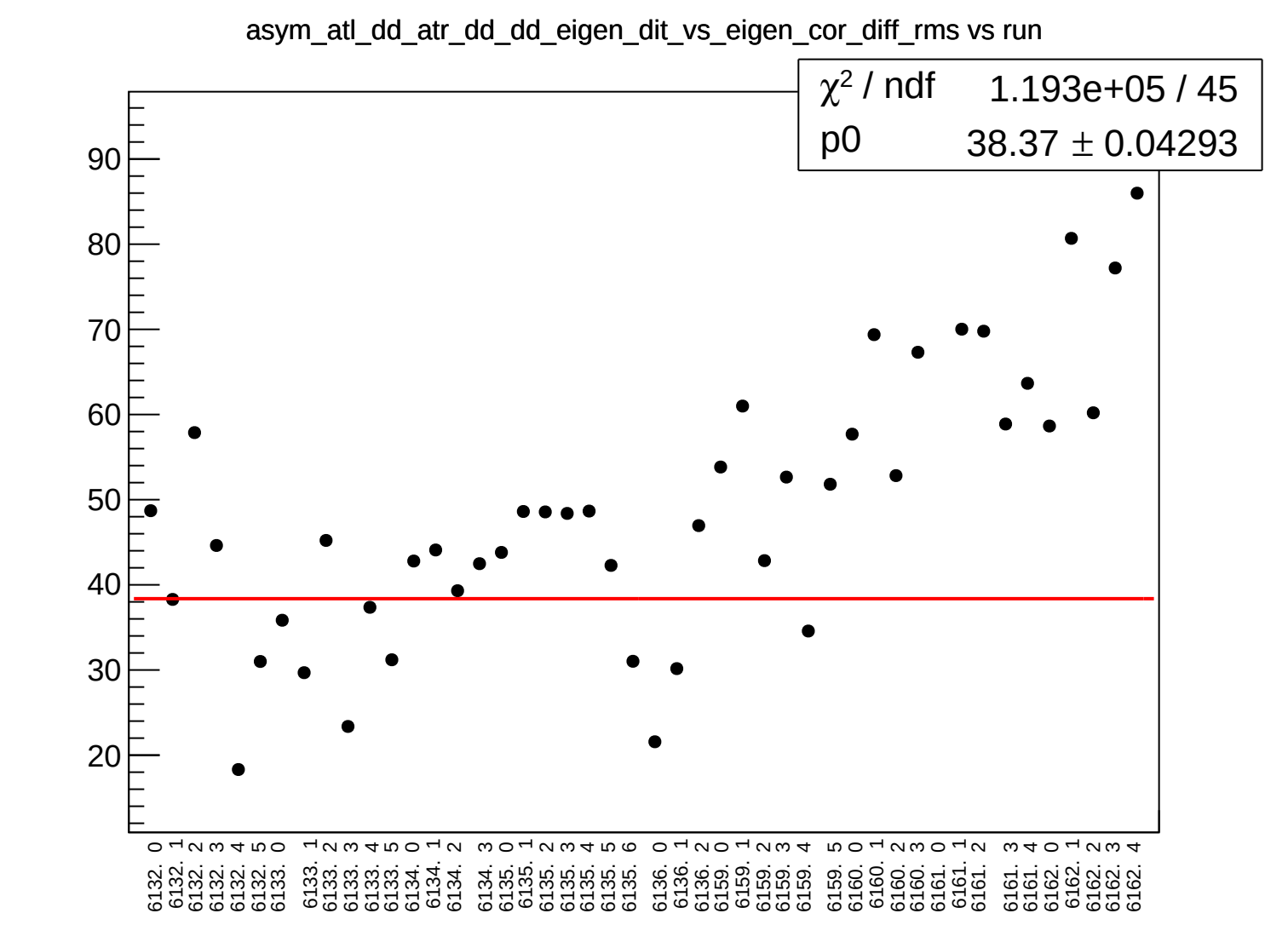

pull1D
Entries 46
Mean −0.01379
Std Dev 1.052
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

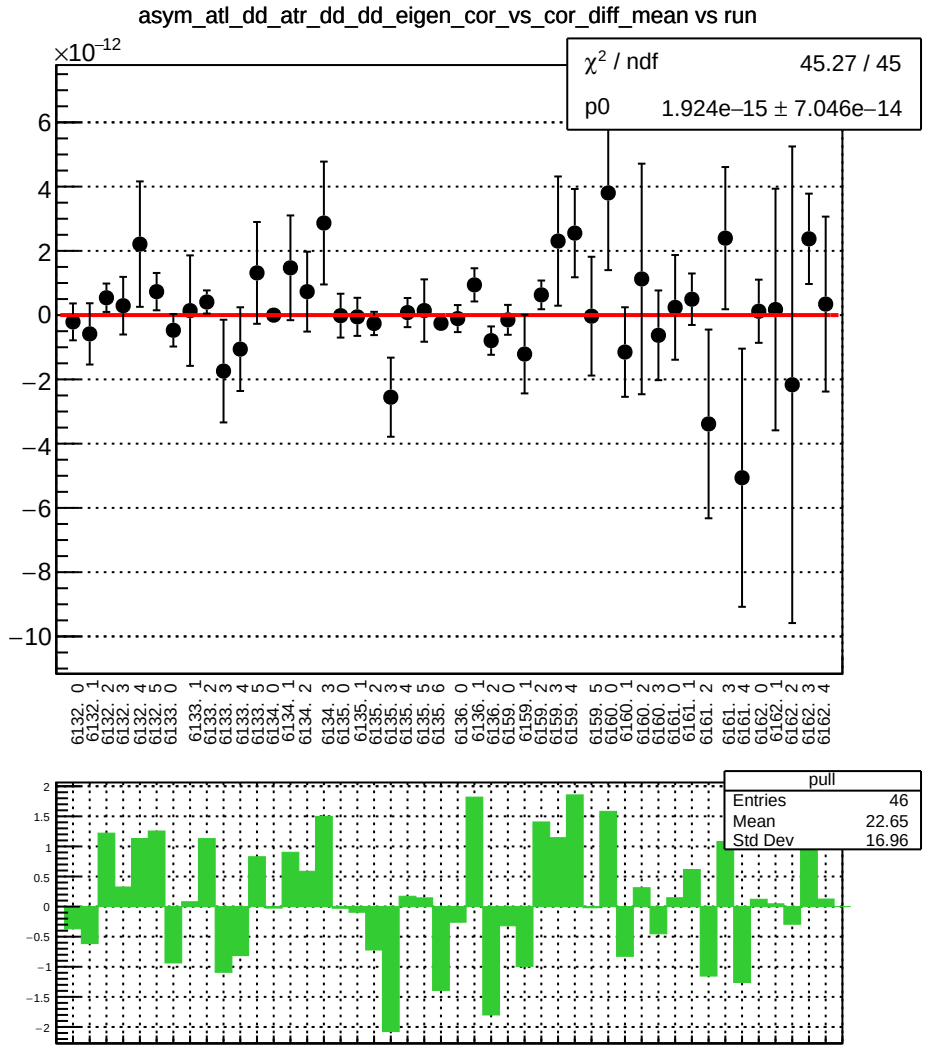

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8948 / 45
p0 0.00331 ± 3.471e−06
0.005
0.0045
0.004
0.0035
0.003
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

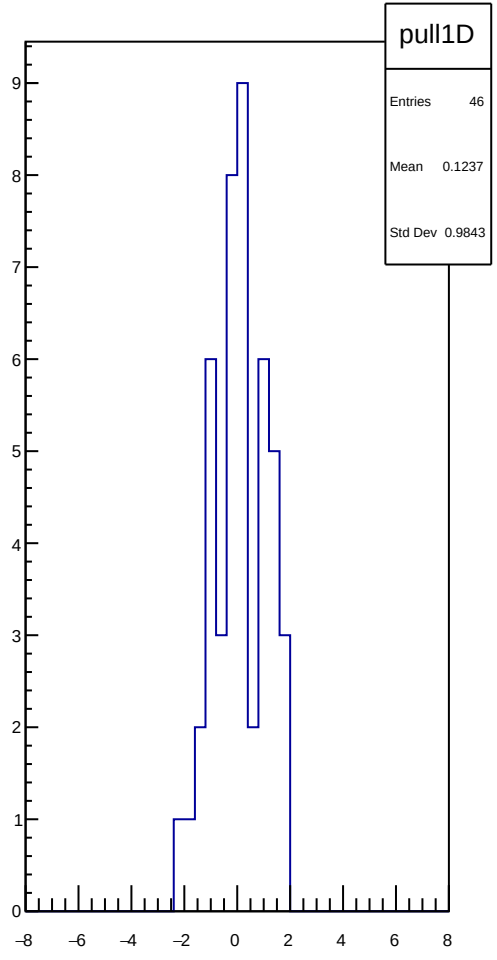

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 57.7 / 45
p0 −0.02707 ± 0.06072
pull
Entries 46
Mean 48.28
Std Dev 0
pull1D
Entries 46
Mean −0.07949
Std Dev 1.117

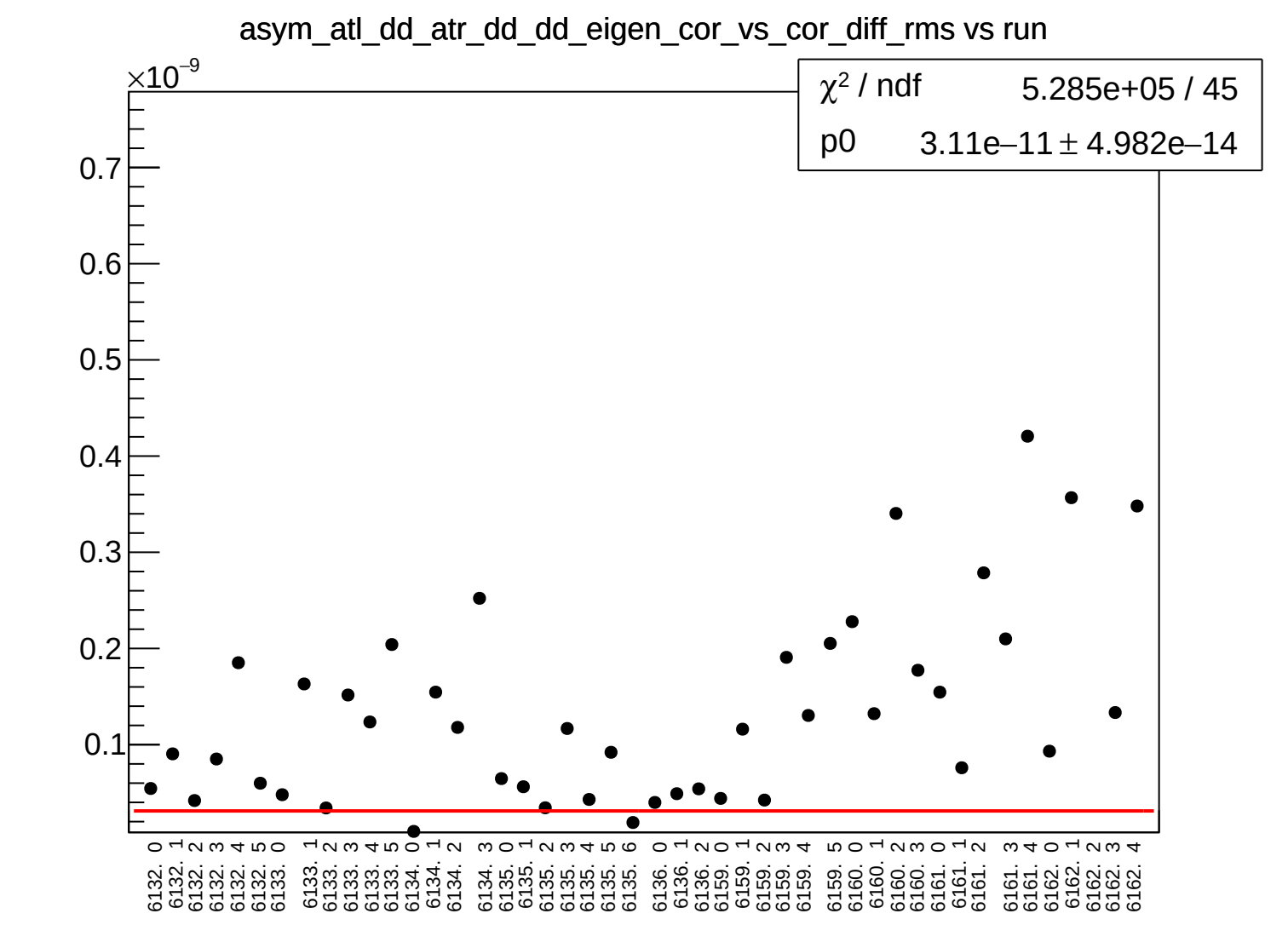

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.193e+05 / 45
p0 38.37 ± 0.04293
90
80
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

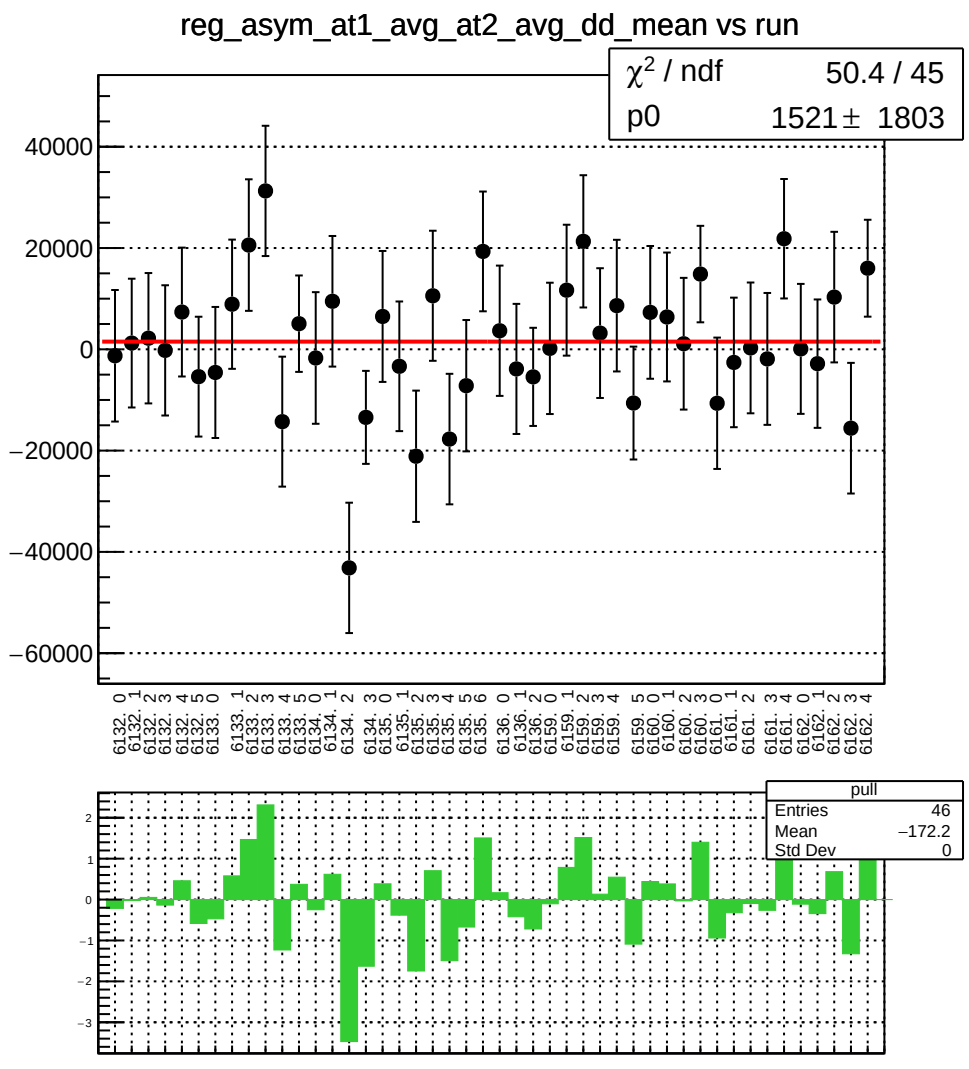

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.7 / 45
p0 −0.02707 ± 0.06072
pull
Entries 46
Mean 48.28
Std Dev 0
pull1D
Entries 46
Mean −0.07949
Std Dev 1.117

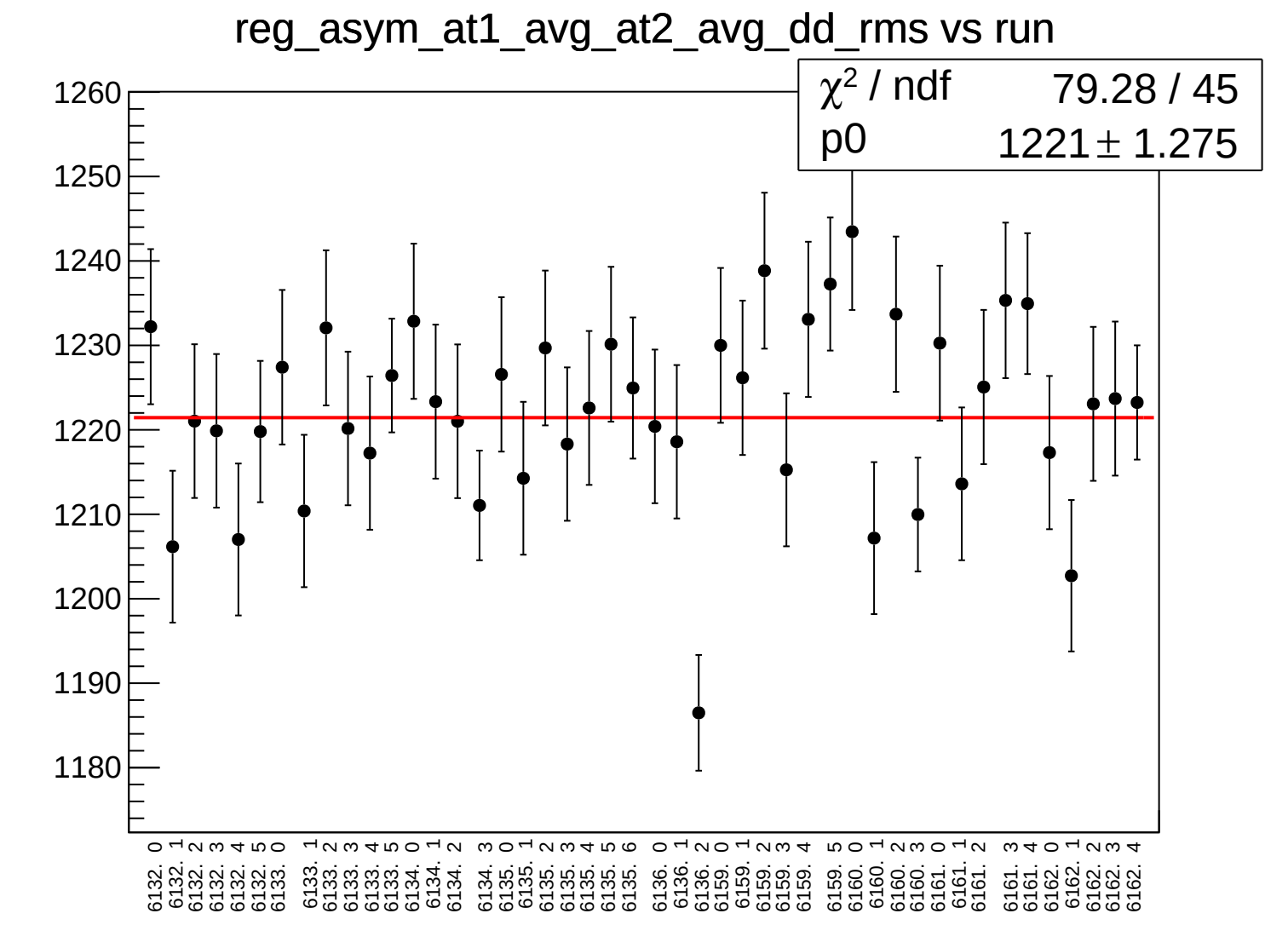

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.193e+05 / 45
p0 38.37 ± 0.04293
90
80
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

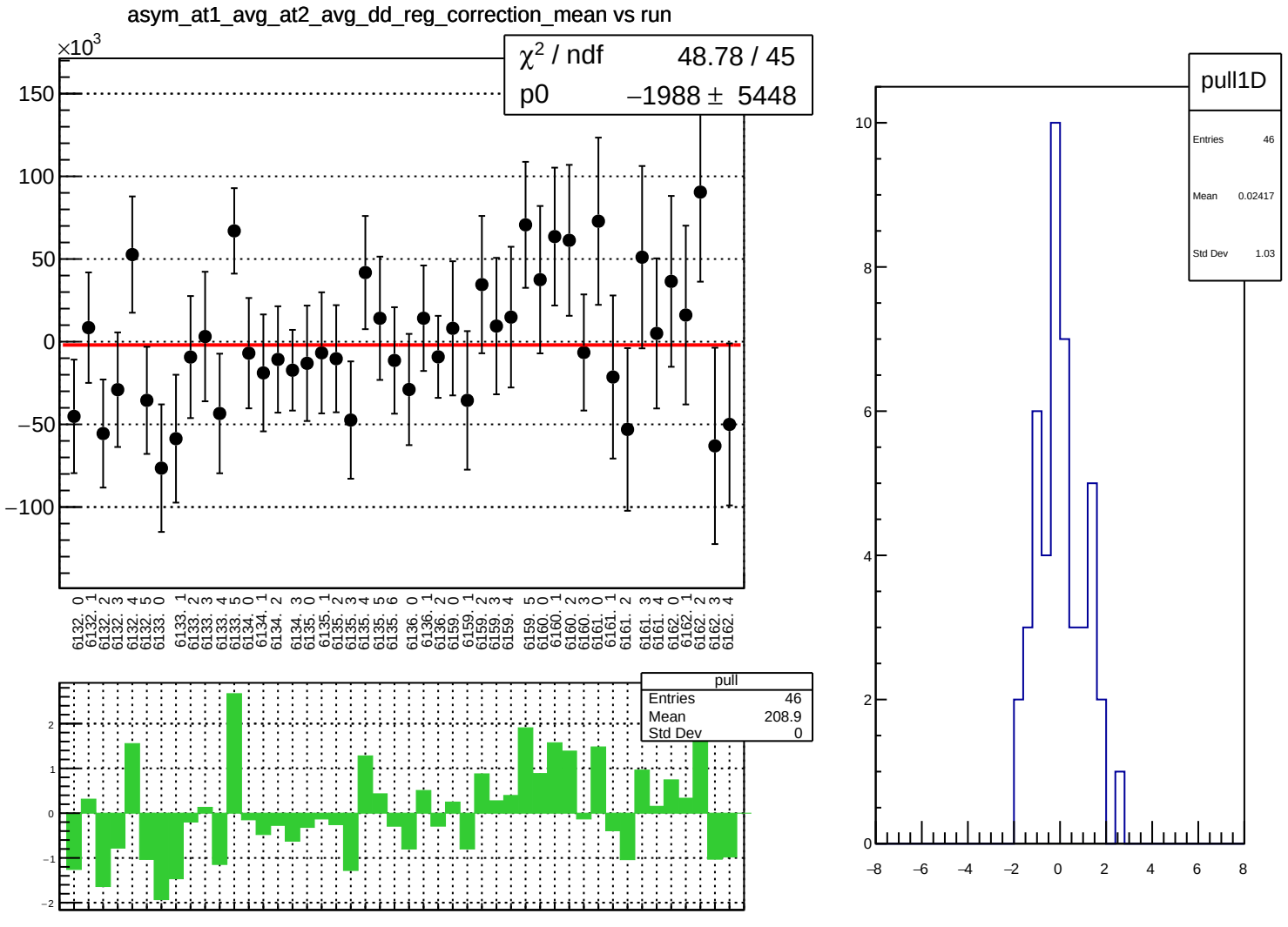

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 45.27 / 45
p0 1.924e−15 ± 7.046e−14
pull
Entries 46
Mean 22.65
Std Dev 16.96


pull1D
Entries 46
Mean 0.1237
Std Dev 0.9843


asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.285e+05 / 45
p0 3.11e−11 ± 4.982e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 50.4 / 45
p0 1521 ± 1803
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −172.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.006847
Std Dev 1.047
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 79.28 / 45
p0 1221 ± 1.275
1260
1250
1240
1230
1220
1210
1200
1190
1180
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 48.78 / 45
p0 −1988 ± 5448
150
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 208.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02417
Std Dev 1.03
10
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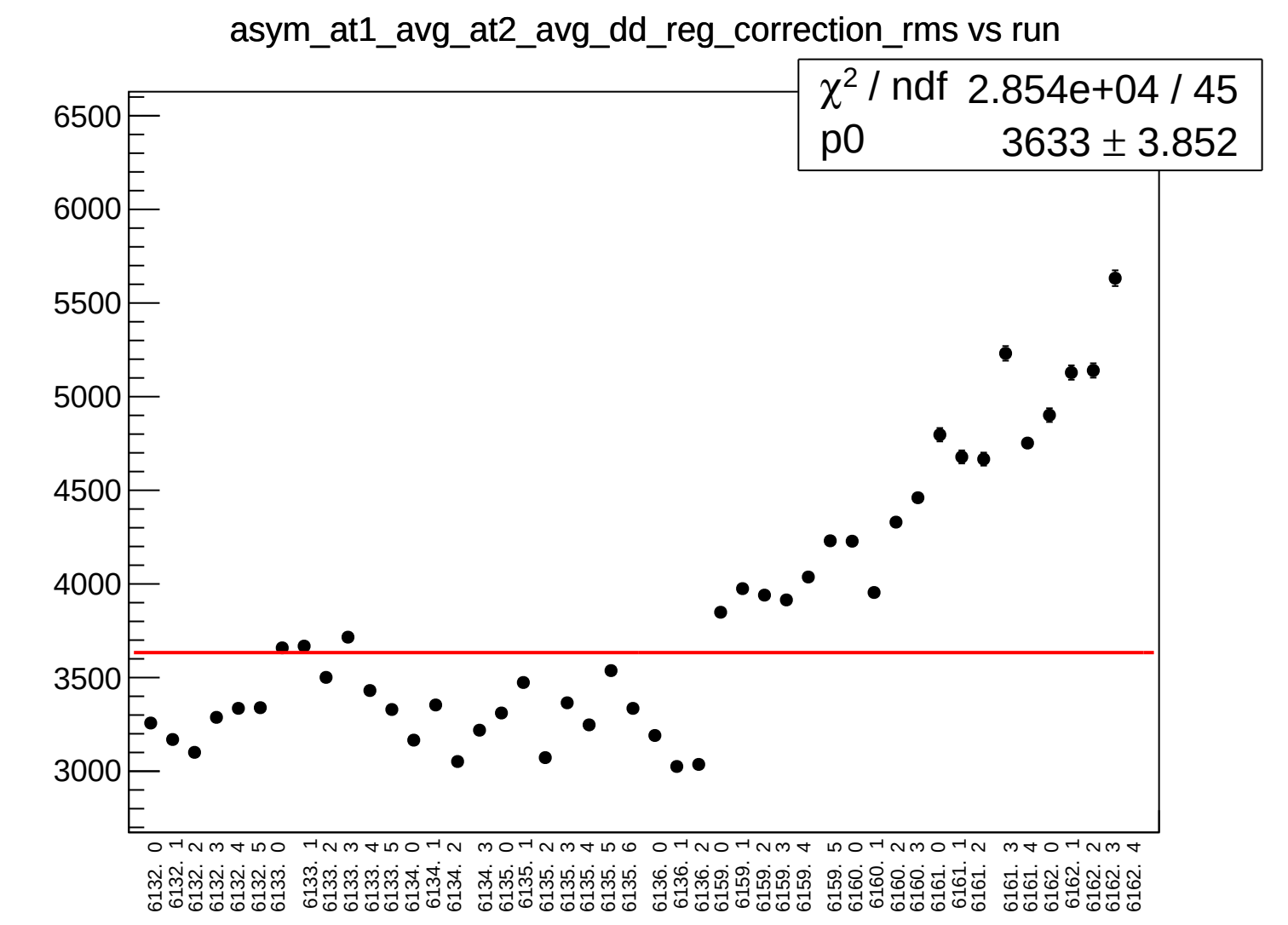
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 2.854e+04 / 45
p0 3633 ± 3.852
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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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
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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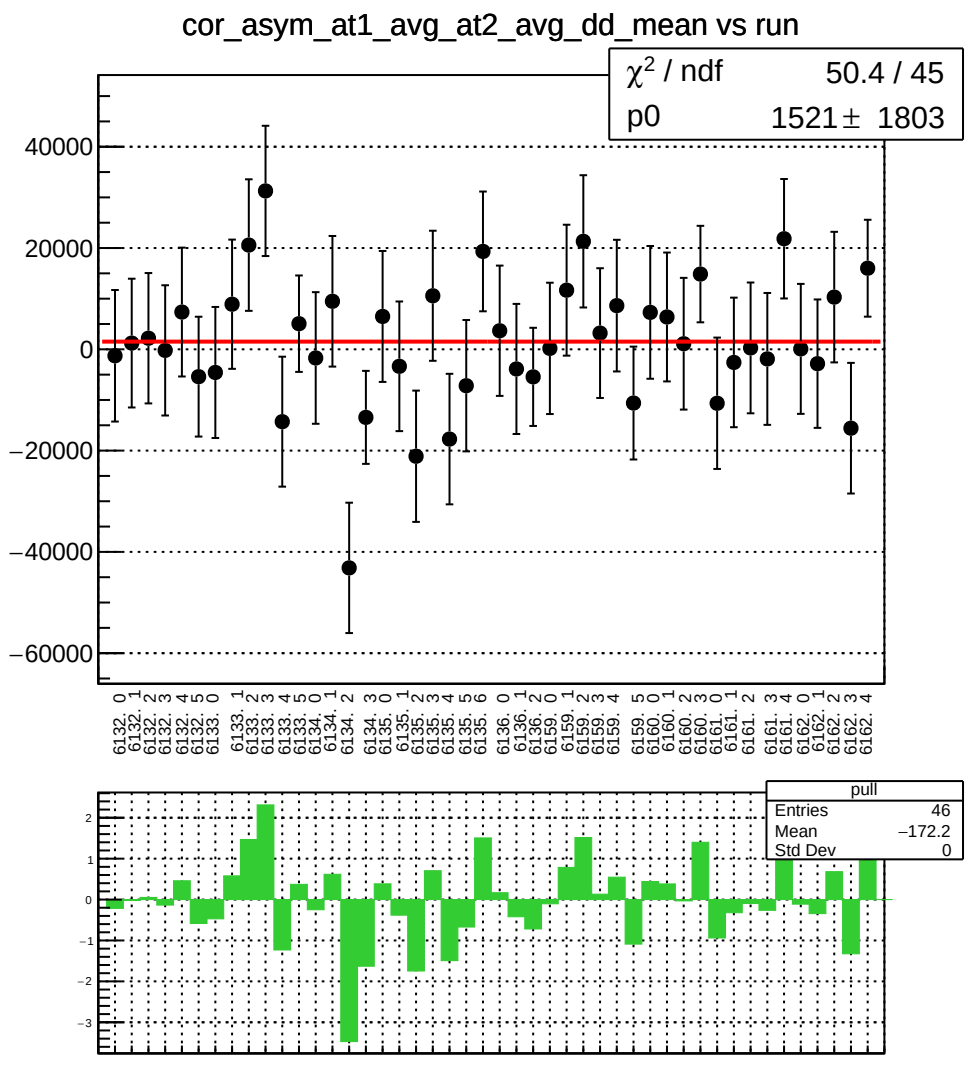
cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 50.4 / 45
p0 1521 ± 1803
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
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6160. 2
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6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −172.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.006848
Std Dev 1.047
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10
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2
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−4
−2
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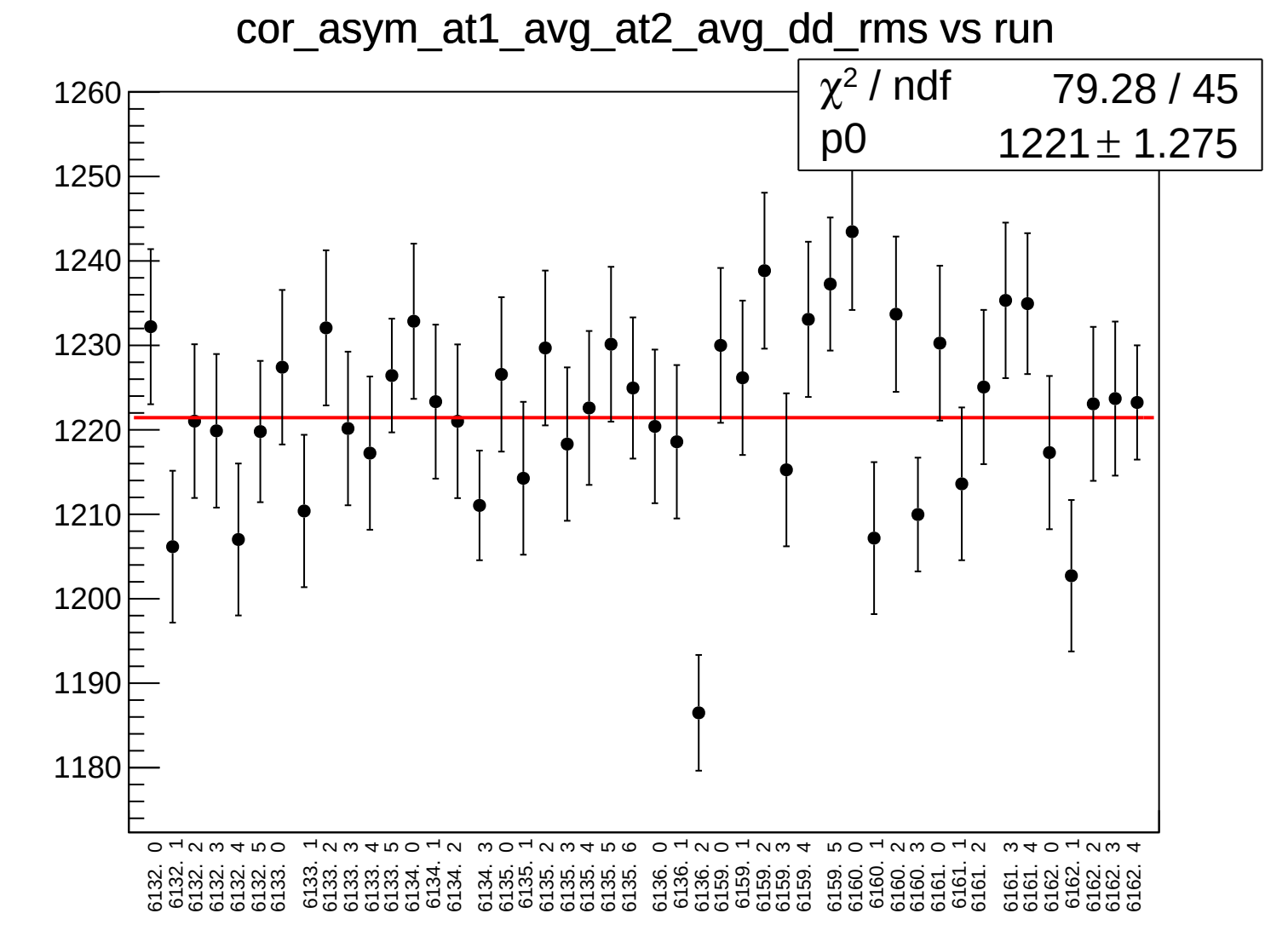
6
8


cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 79.28 / 45
p0 1221 ± 1.275
1260
1250
1240
1230
1220
1210
1200
1190
1180
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 4
6133. 5
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6160. 1
6160. 2
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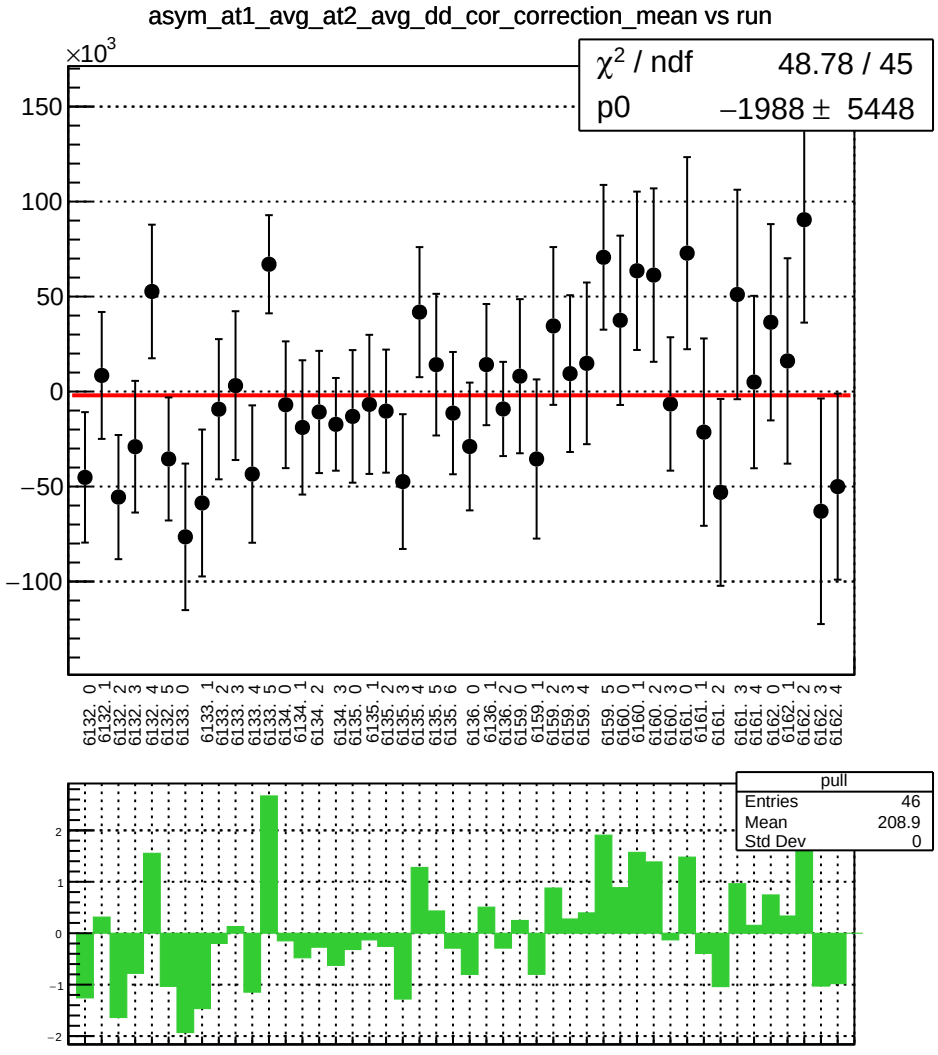
asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 48.78 / 45
p0 −1988 ± 5448
150
100
50
0
−50
−100
6132. 0
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6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
6159. 0
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6159. 2
6159. 3
6159. 4
6159. 5
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6160. 1
6160. 2
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6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 208.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02417
Std Dev 1.03
10
8
6
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2
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−8
−6
−4
−2
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2
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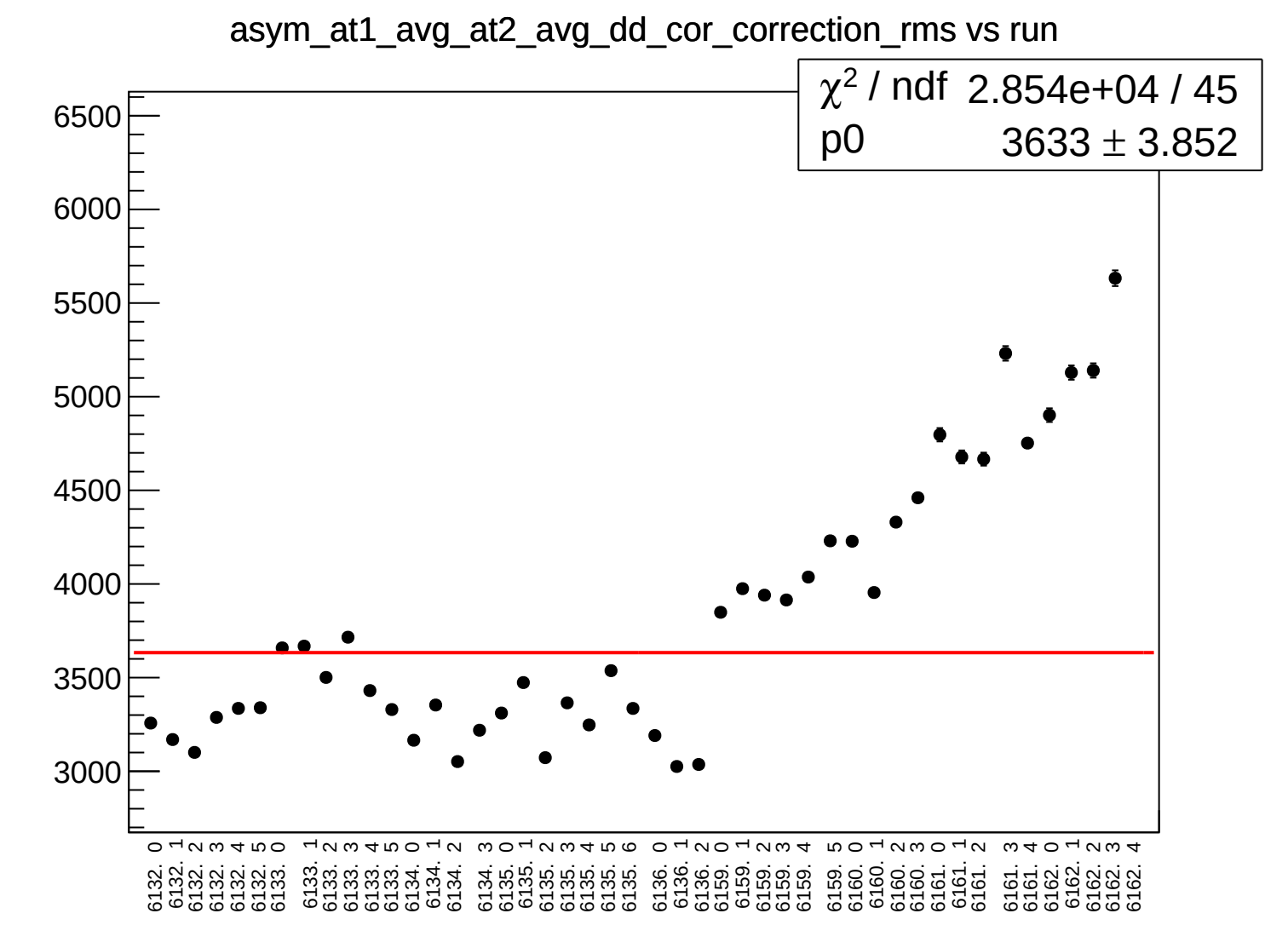
6
8


asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 2.854e+04 / 45
p0 3633 ± 3.852
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
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6132. 2
6132. 3
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6135. 6
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6136. 2
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6159. 2
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6160. 1
6160. 2
6160. 3
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6161. 2
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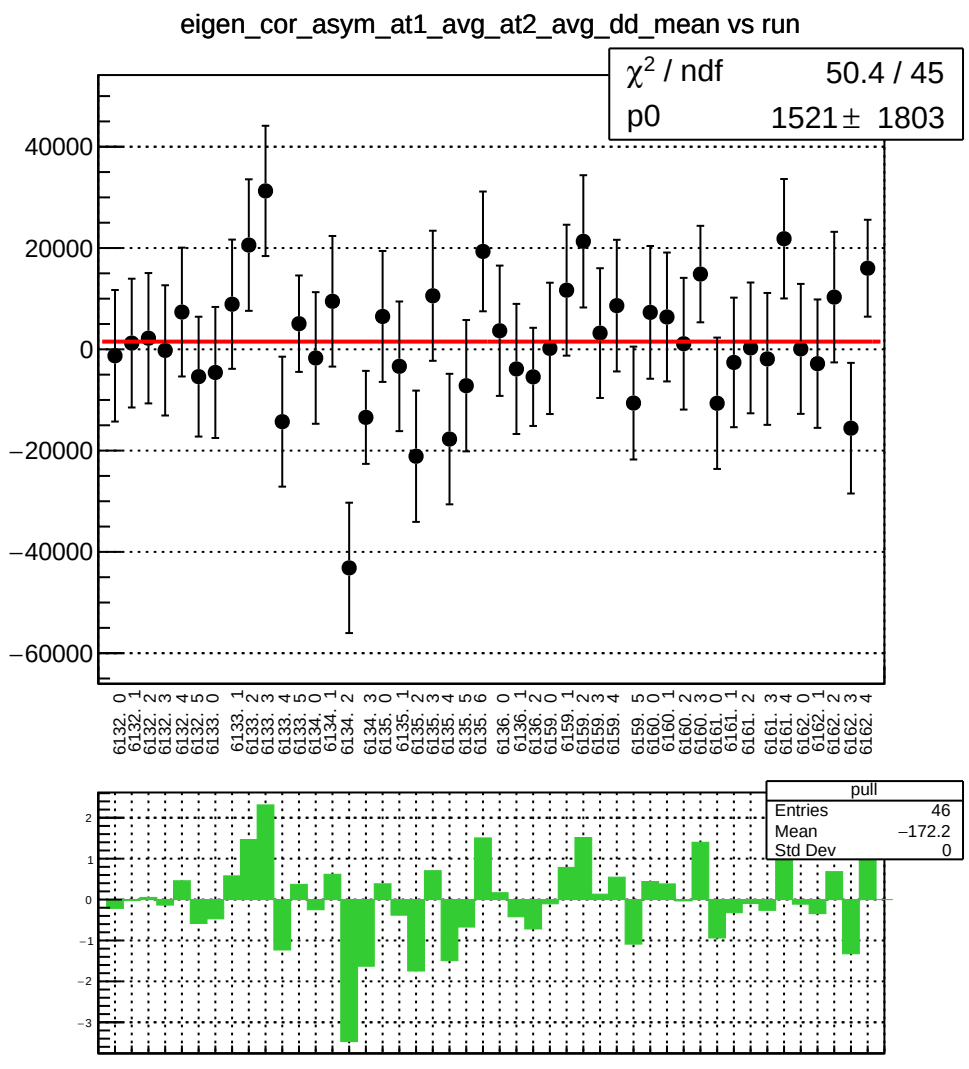
6162. 3
6162. 4


eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 50.4 / 45
p0 1521 ± 1803
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
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6134. 2
6134. 3
6135. 0
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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6159. 3
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6161. 0
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6161. 4
6162. 0
6162. 1
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pull
Entries 46
Mean −172.2
Std Dev 0
2
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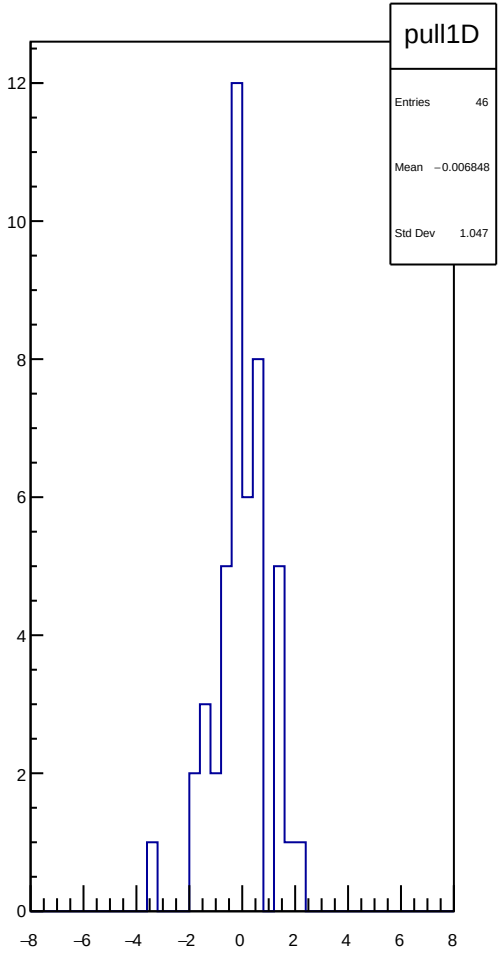
0
−1
−2
−3


pull1D
Entries 46
Mean −0.006848
Std Dev 1.047
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10
8
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4
2
0
−8
−6
−4
−2
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2
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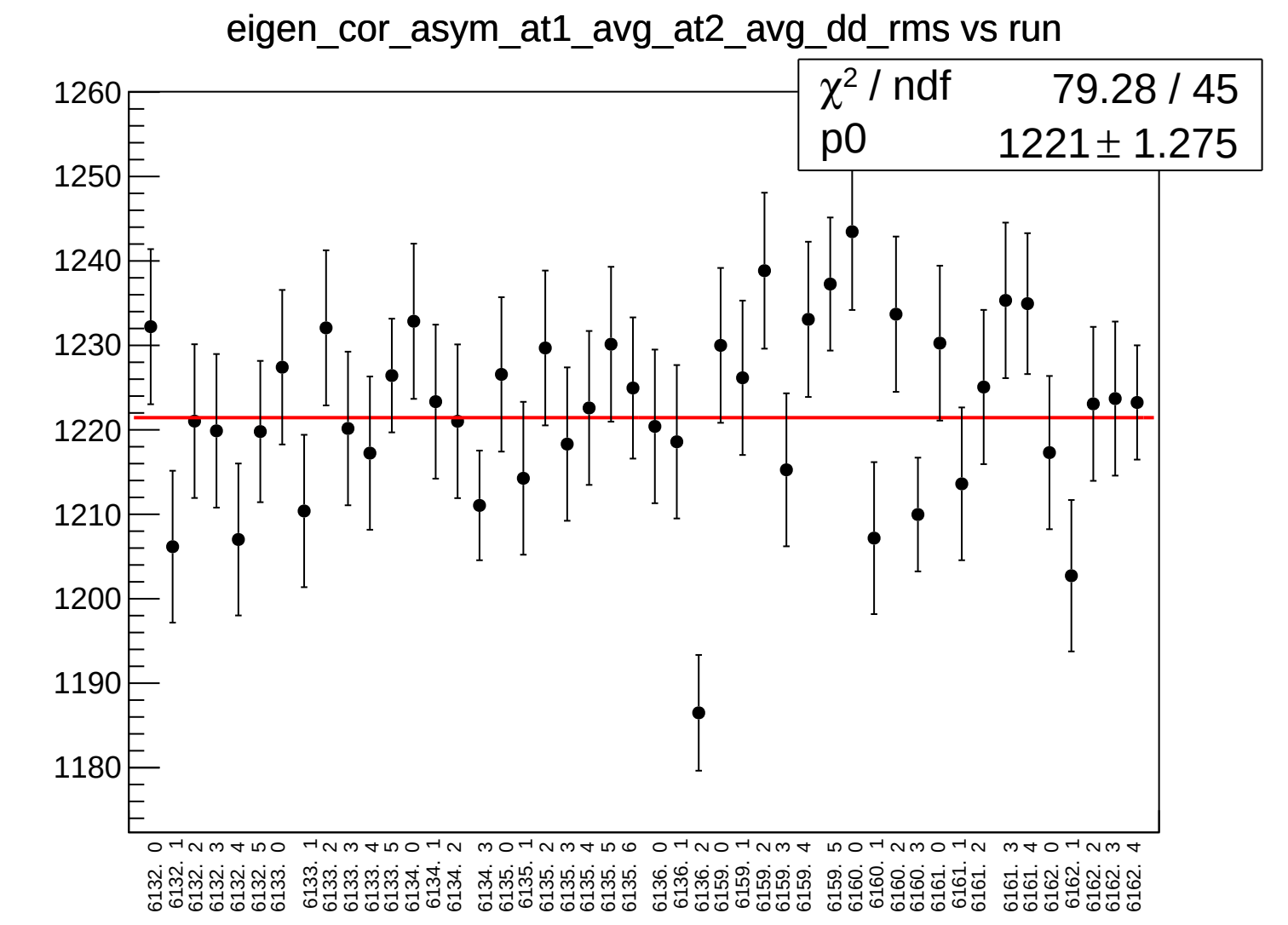
8


eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 79.28 / 45
p0 1221 ± 1.275
1260
1250
1240
1230
1220
1210
1200
1190
1180
6132. 0
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6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
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6133. 5
6134. 0
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6135. 3
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6135. 5
6135. 6
6136. 0
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6136. 2
6159. 0
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6159. 2
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6159. 4
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6160. 0
6160. 1
6160. 2
6160. 3
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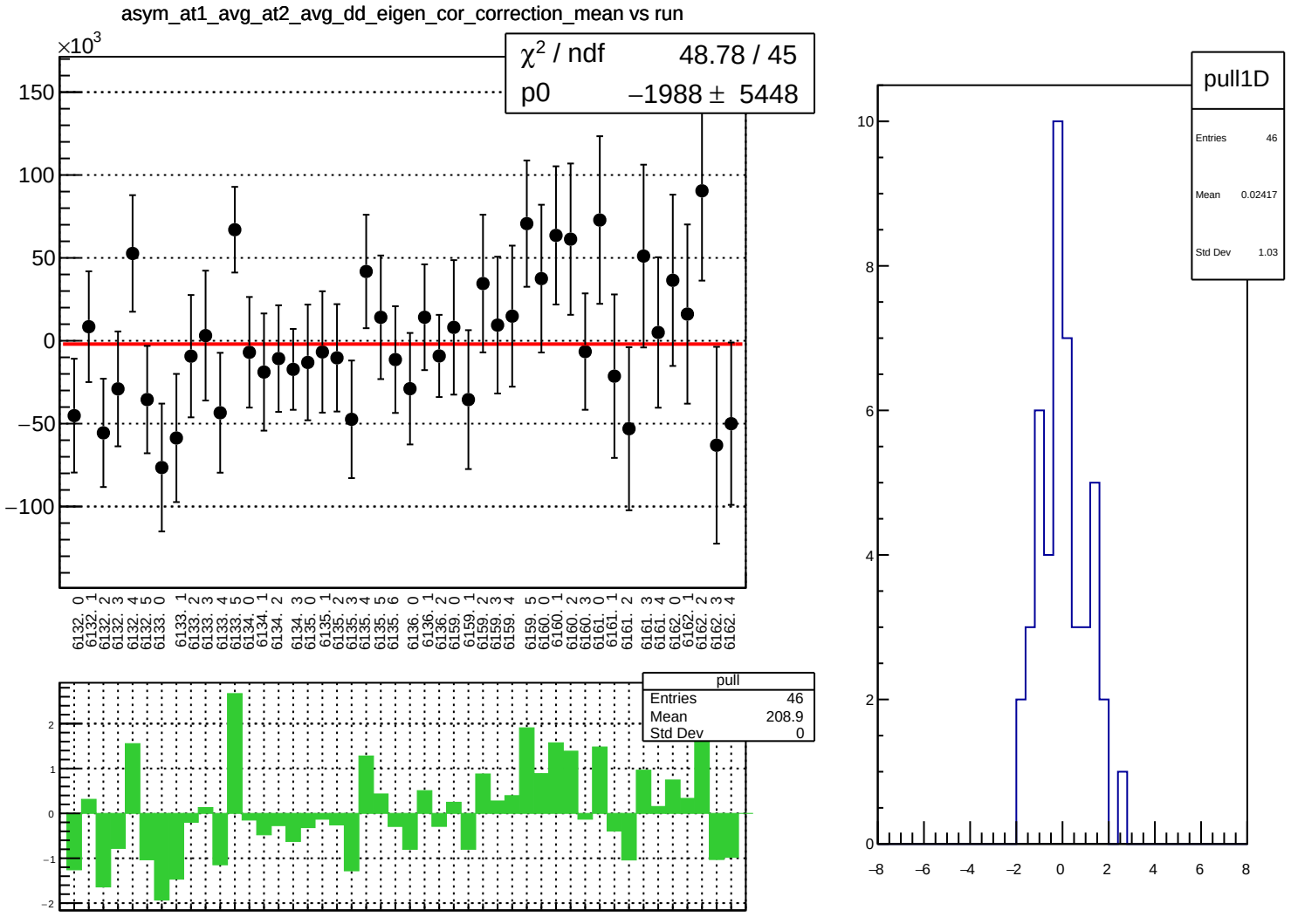
6162. 4


asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 48.78 / 45
p0 −1988 ± 5448
150
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
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6133. 5
6134. 0
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6134. 2
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6135. 1
6135. 2
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6135. 4
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6135. 6
6136. 0
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6136. 2
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6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
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6162. 1
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6162. 3
6162. 4
pull
Entries 46
Mean 208.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02417
Std Dev 1.03
10
8
6
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2
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−8
−6
−4
−2
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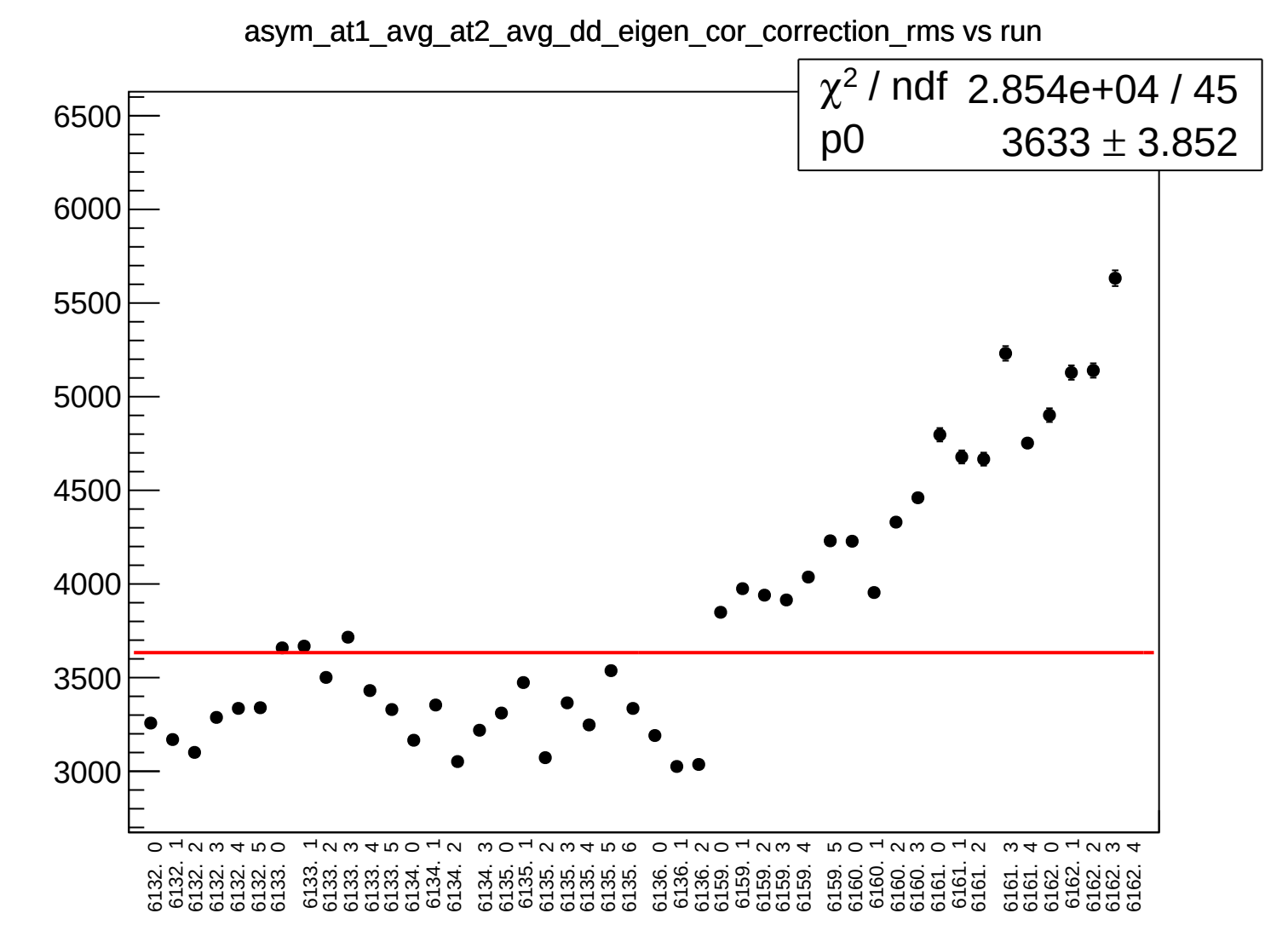
2
4
6
8


asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.854e+04 / 45
p0 3633 ± 3.852
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
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6132. 2
6132. 3
6132. 4
6132. 5
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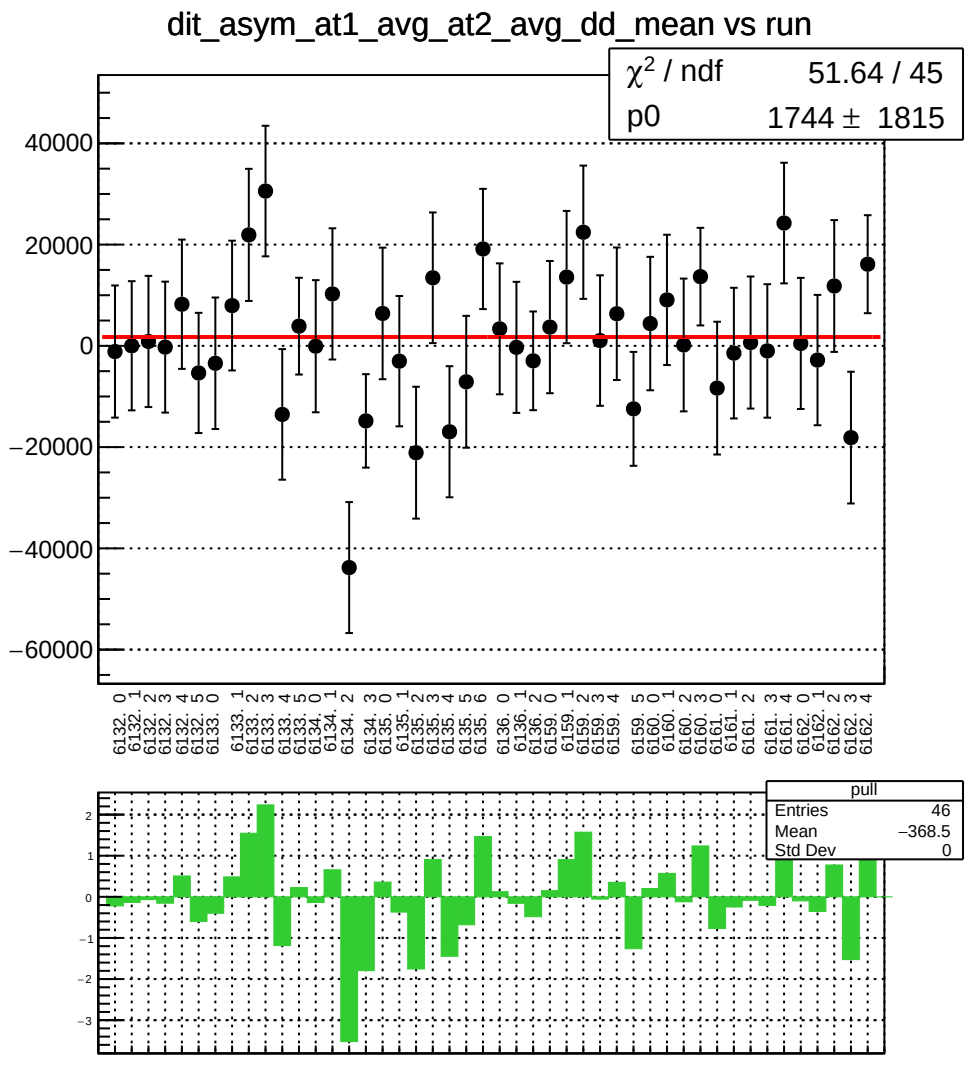
6162. 4


dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 51.64 / 45
p0 1744 ± 1815
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6135. 4
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6136. 0
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6161. 4
6162. 0
6162. 1
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pull
Entries 46
Mean −368.5
Std Dev 0
2
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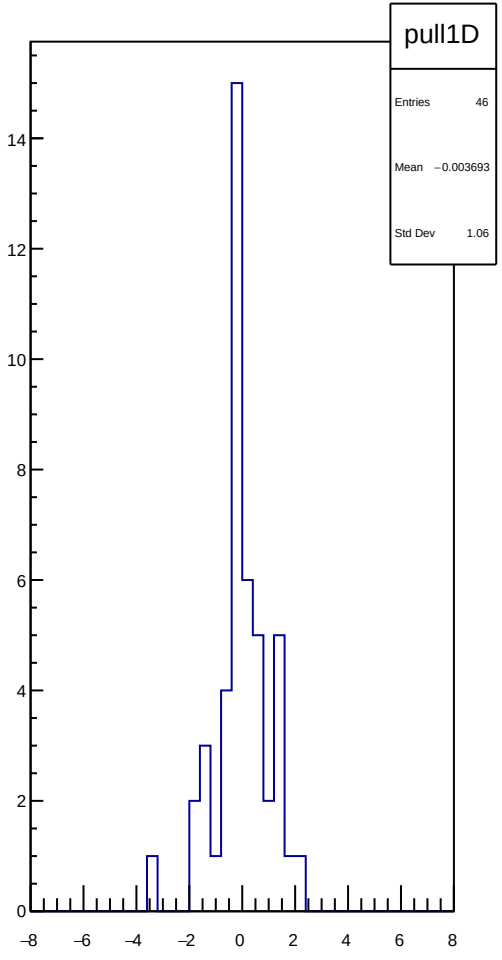
0
−1
−2
−3


pull1D
Entries 46
Mean −0.003693
Std Dev 1.06
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12
10
8
6
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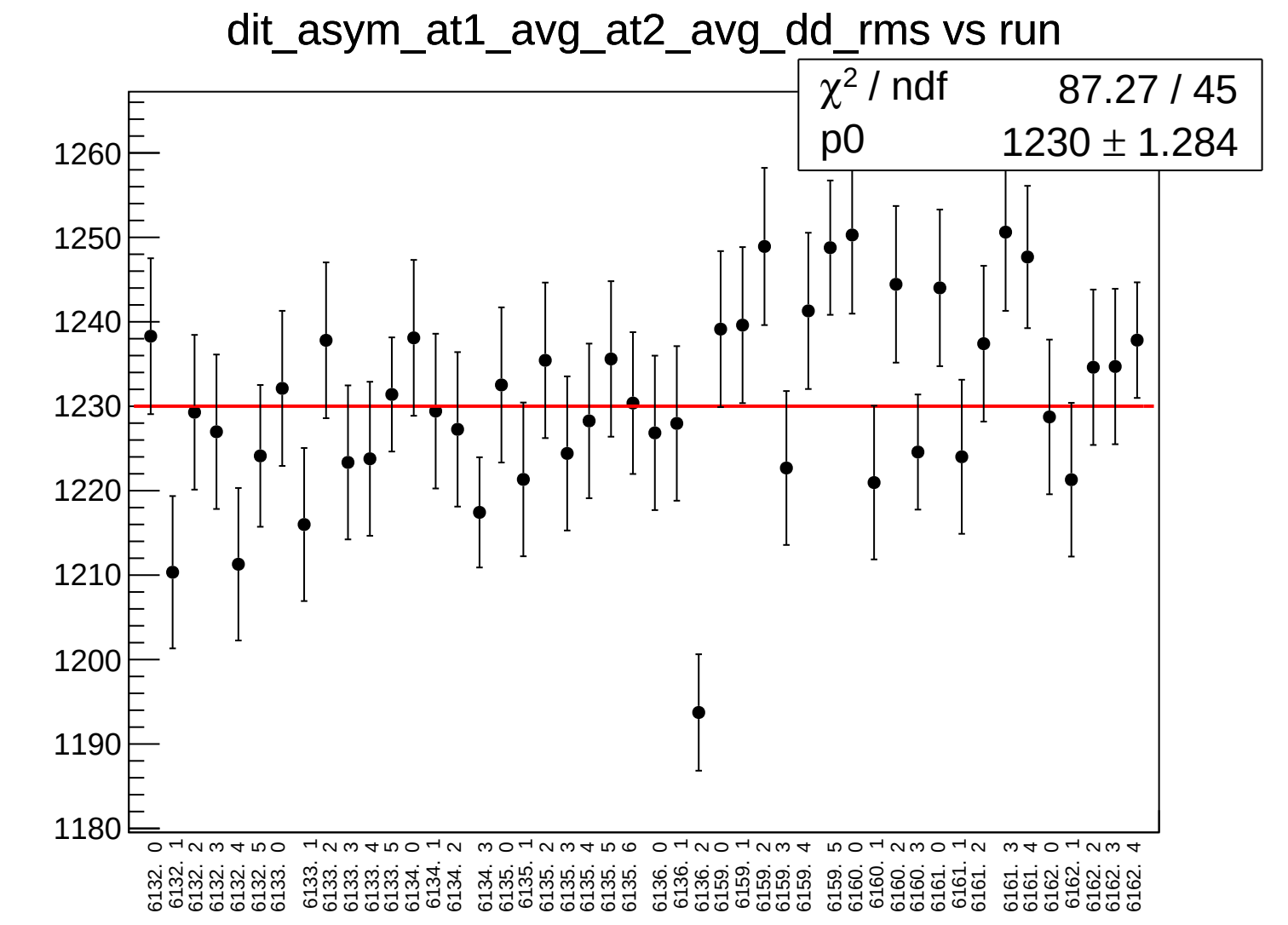
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 87.27 / 45
p0 1230 ± 1.284
1260
1250
1240
1230
1220
1210
1200
1190
1180
6132. 0
6132. 1
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6132. 4
6132. 5
6133. 0
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6133. 3
6133. 4
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6160. 0
6160. 1
6160. 2
6160. 3
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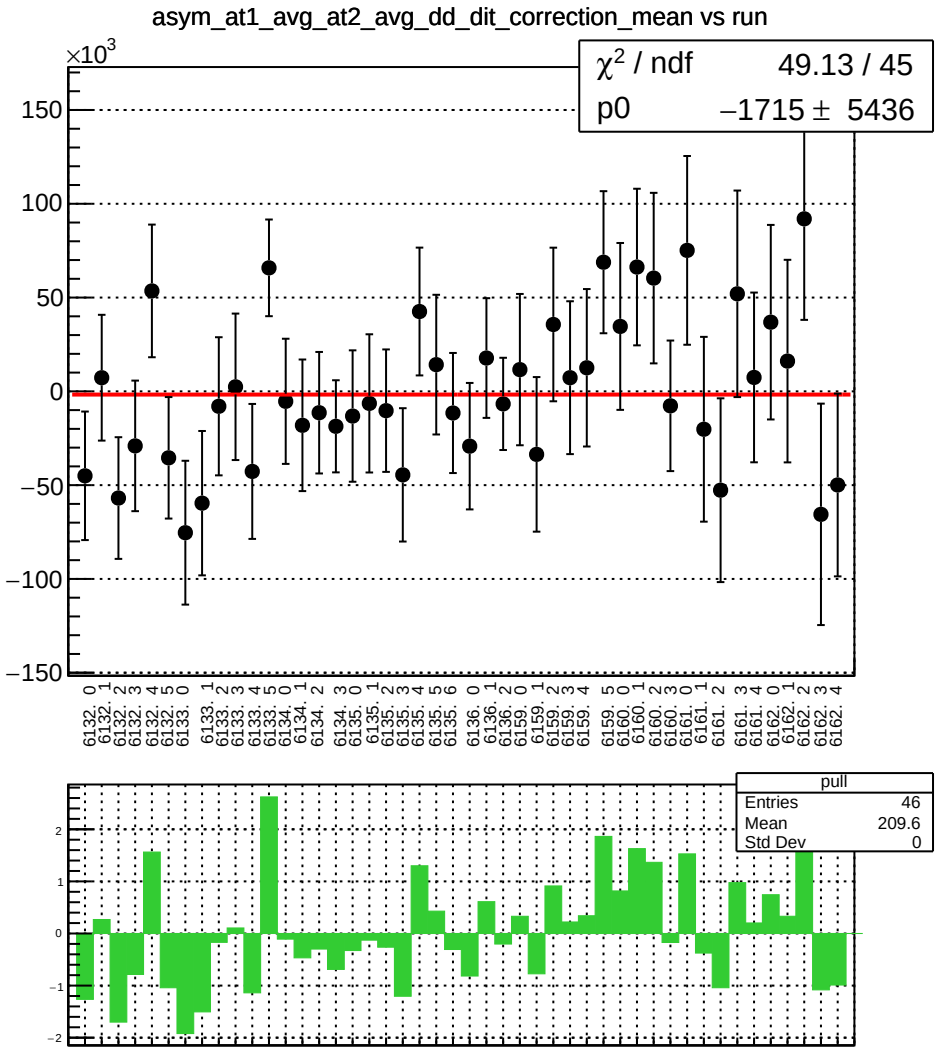
asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 49.13 / 45
p0 −1715 ± 5436
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6134. 2
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6159. 2
6159. 3
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6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 209.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02447
Std Dev 1.033
10
8
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−6
−4
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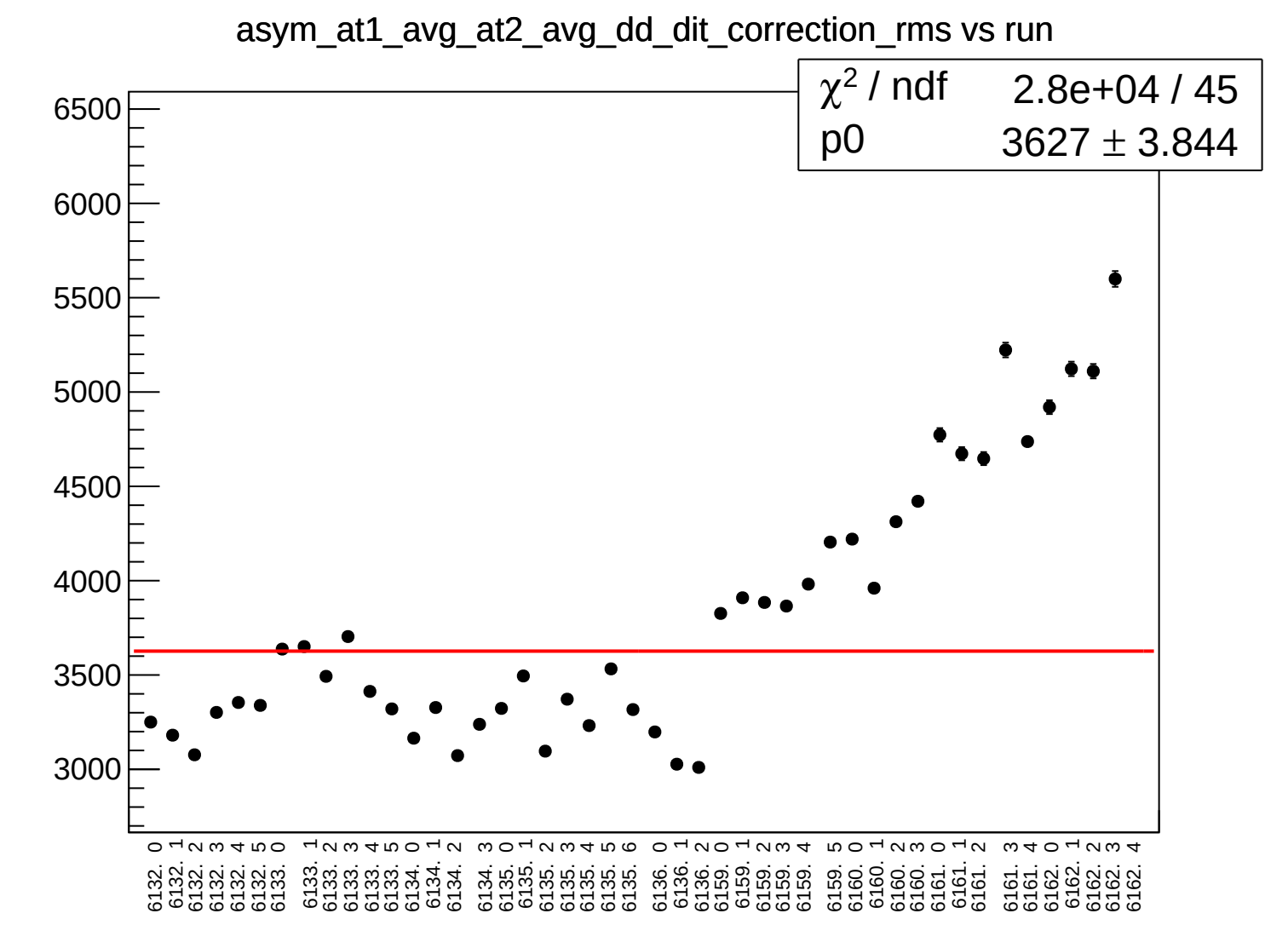
2
4
6
8


asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 2.8e+04 / 45
p0 3627 ± 3.844
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
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6132. 5
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6160. 2
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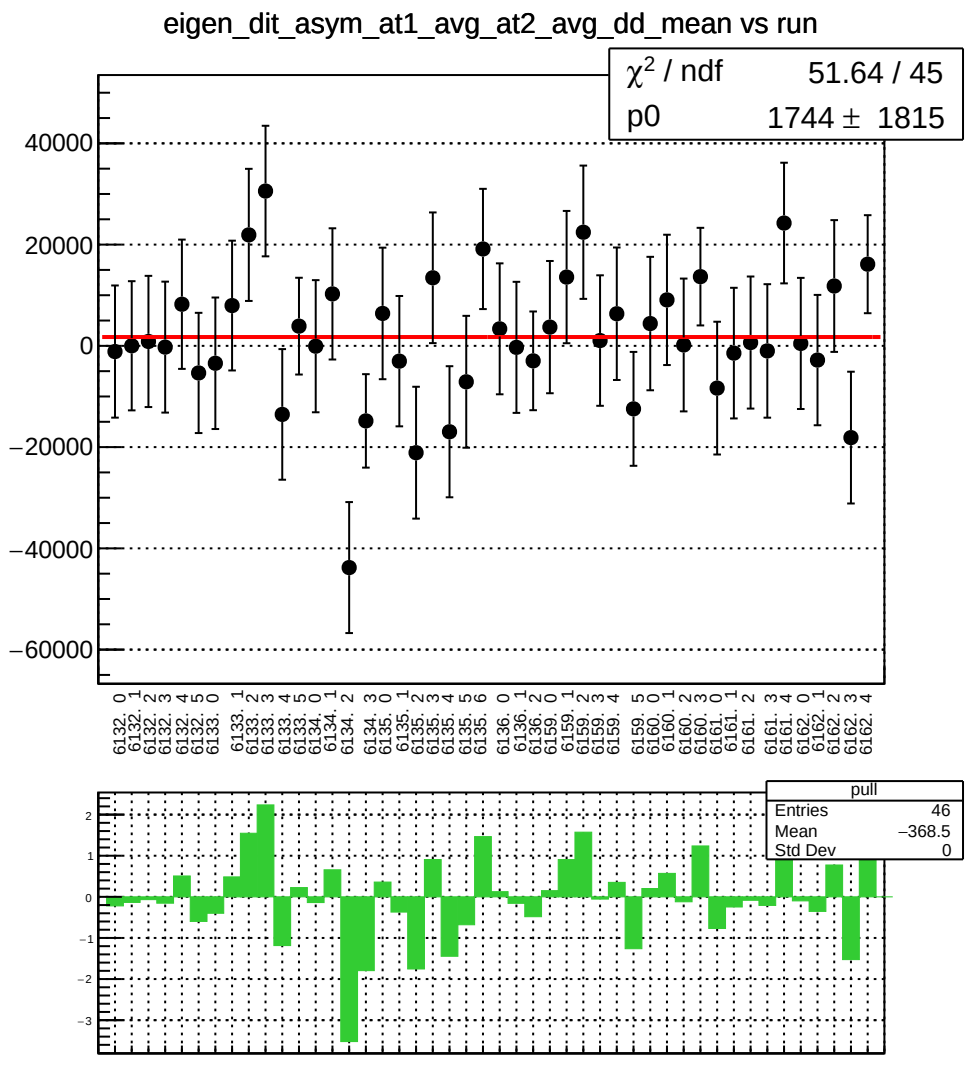
6162. 4


eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 51.64 / 45
p0 1744 ± 1815
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−40000
−60000
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6132. 2
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6162. 0
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6162. 4
pull
Entries 46
Mean −368.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.003693
Std Dev 1.06
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10
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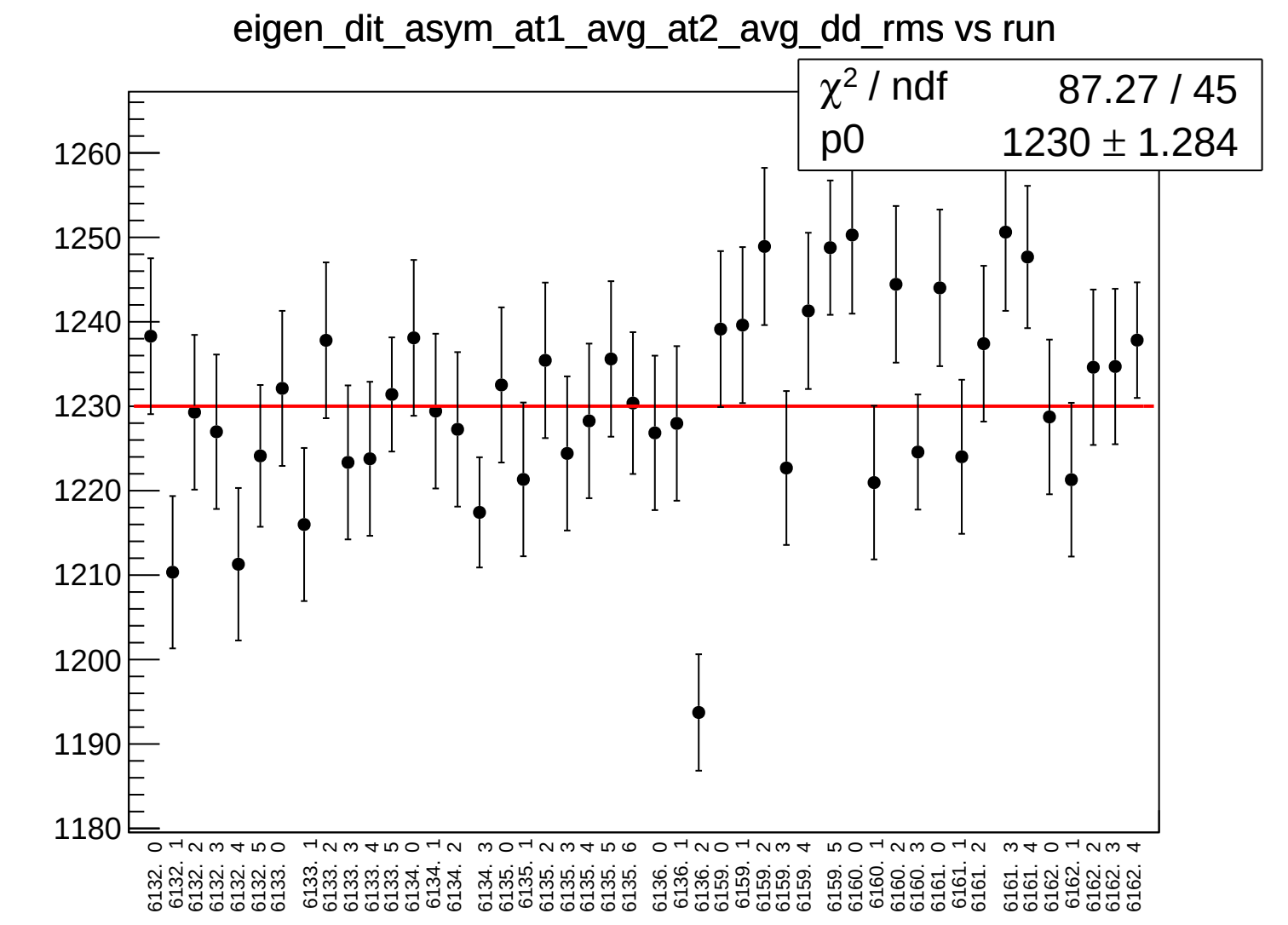
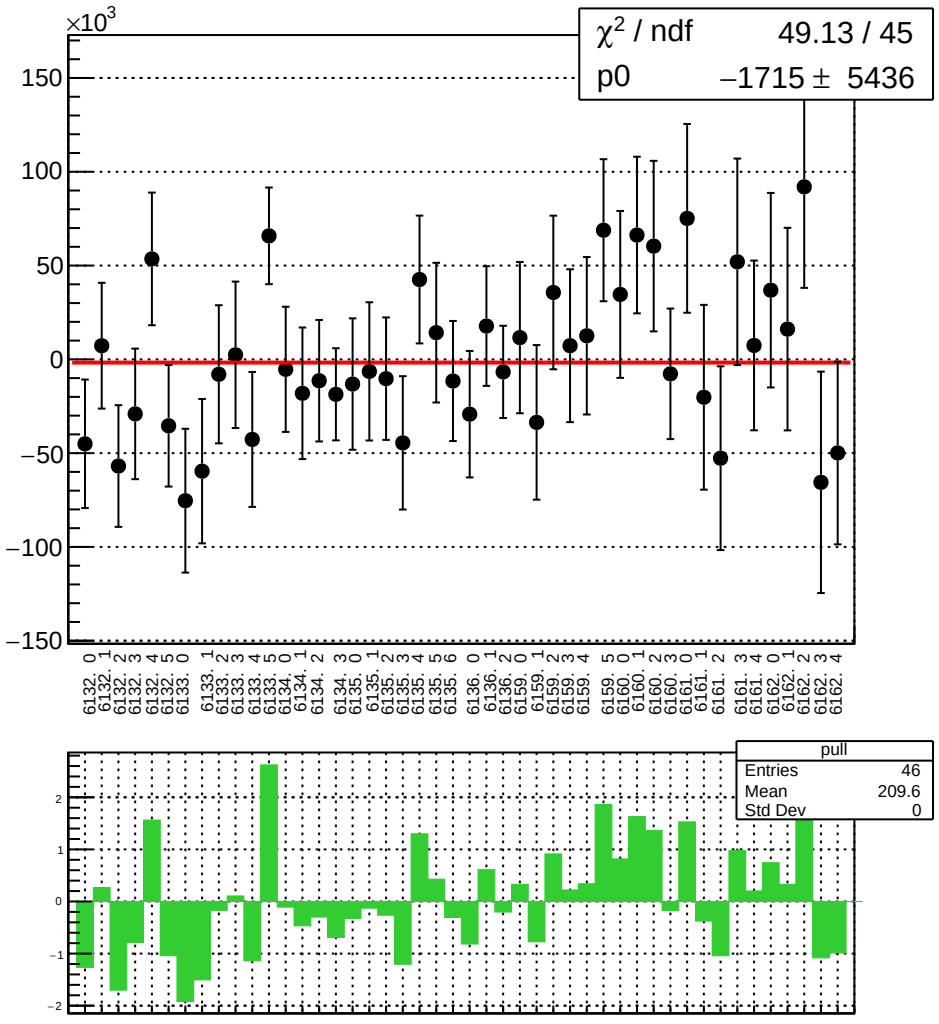
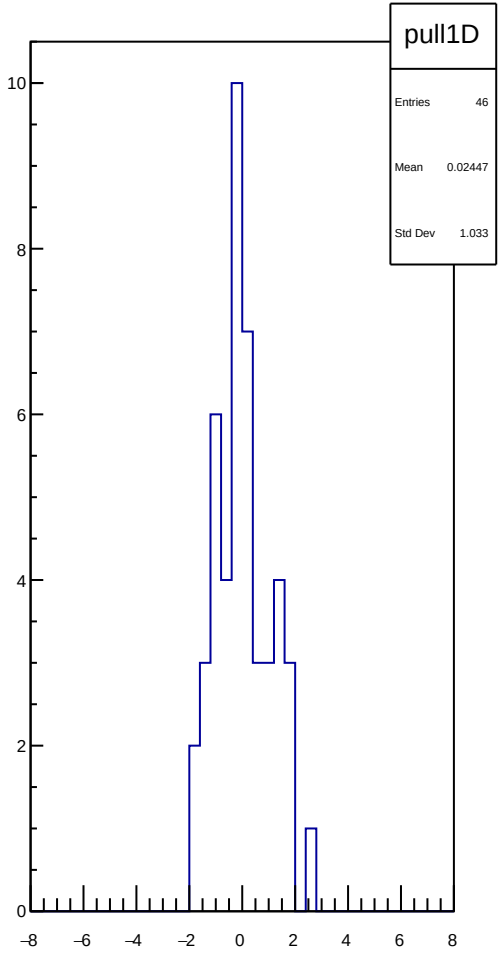
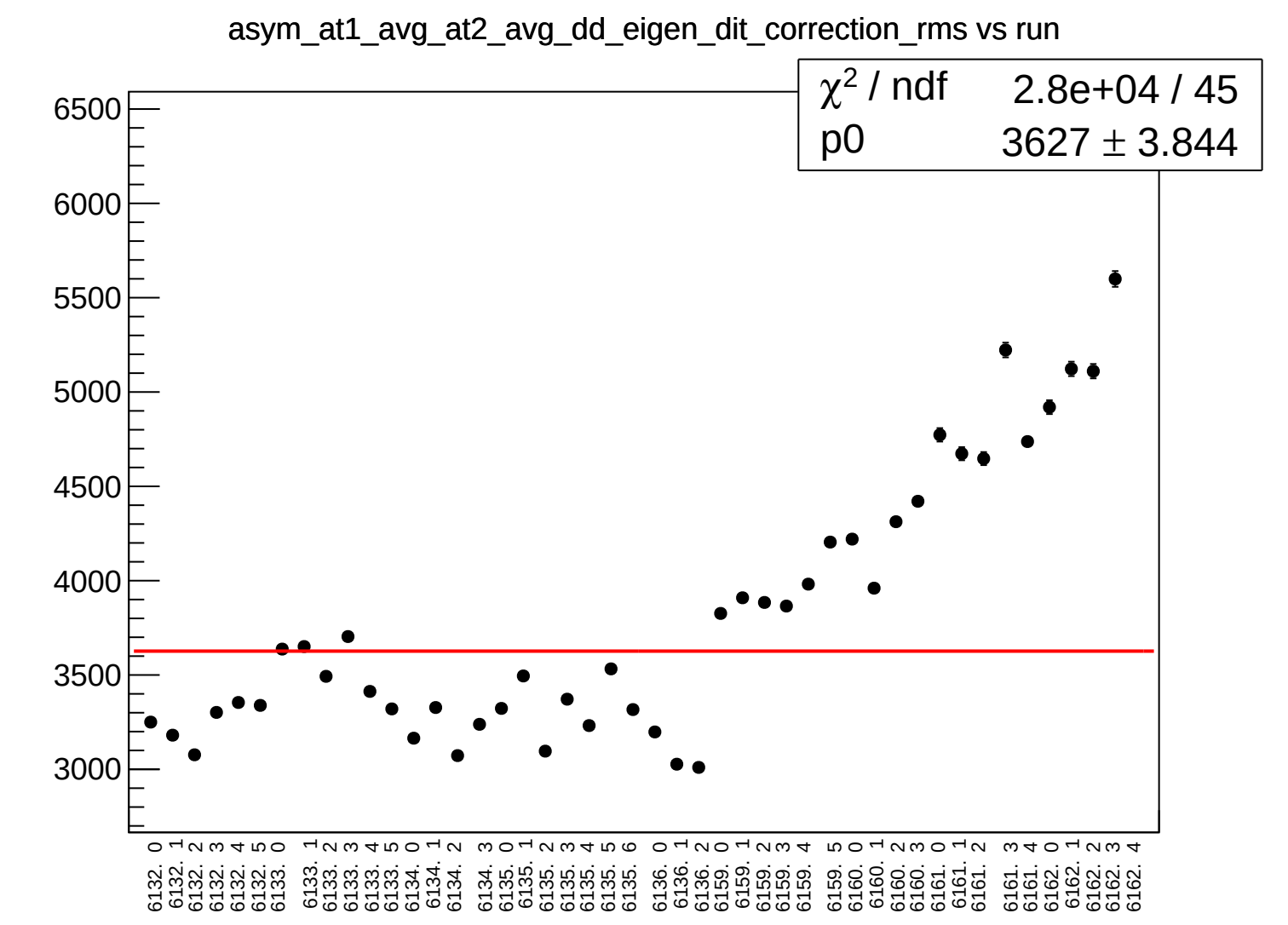
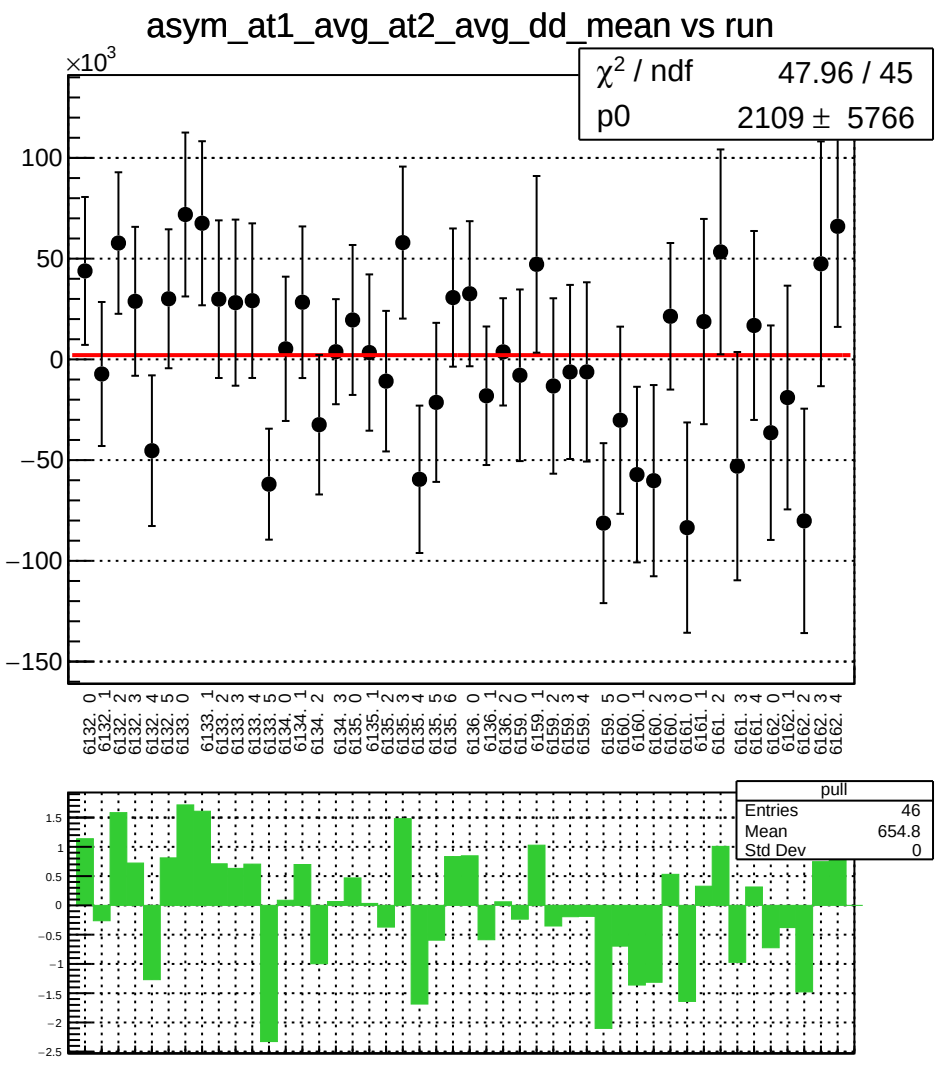
2
4
6
8

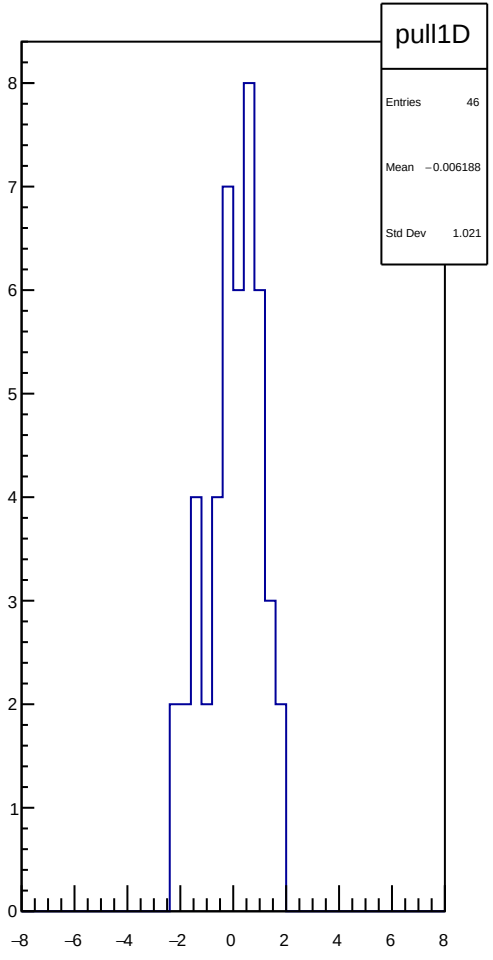

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 87.27 / 45
p0 1230 ± 1.284
1260
1250
1240
1230
1220
1210
1200
1190
1180
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

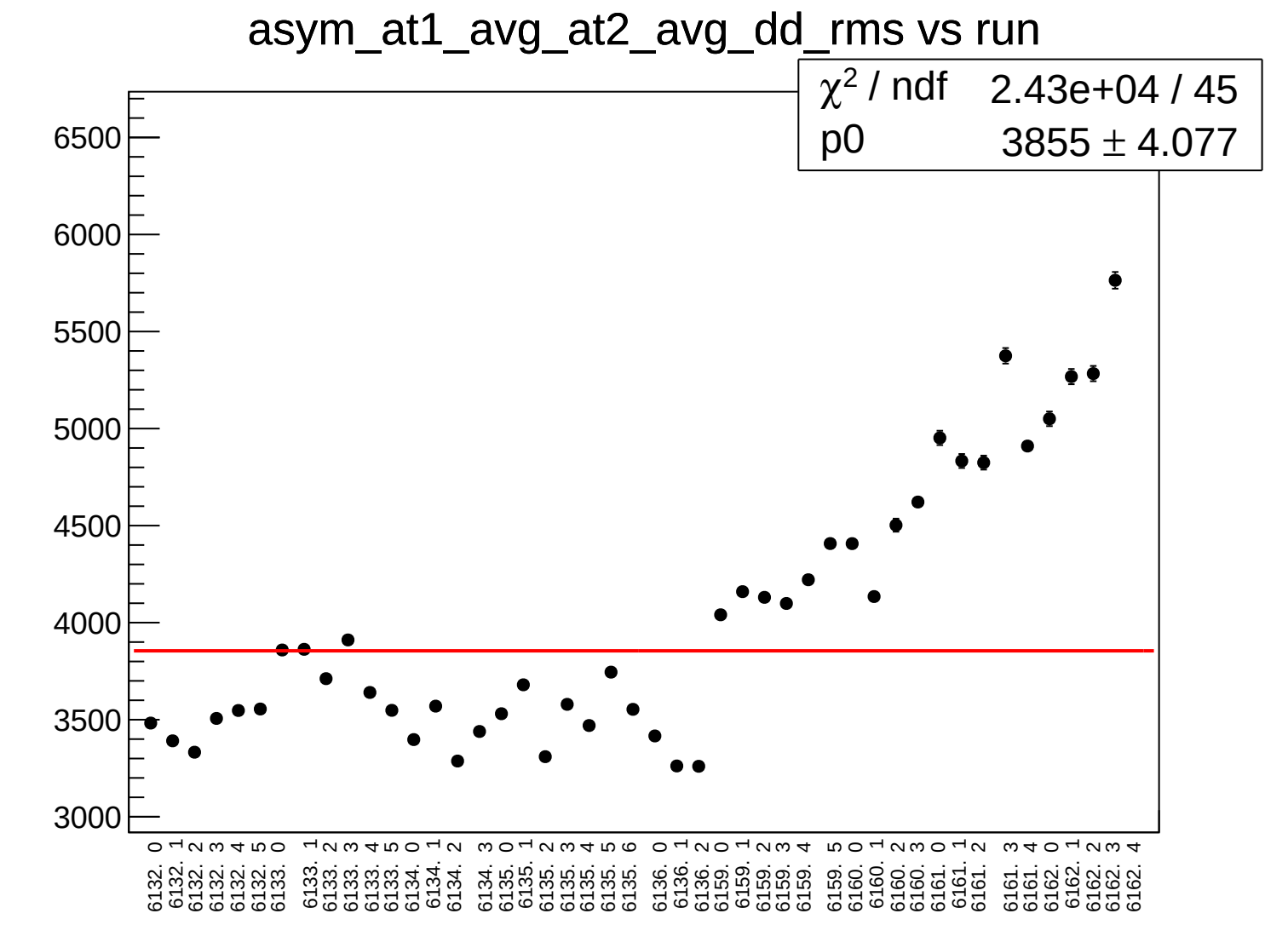

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 49.13 / 45
p0 −1715 ± 5436
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 209.6
Std Dev 0
2
1
0
−1
−2

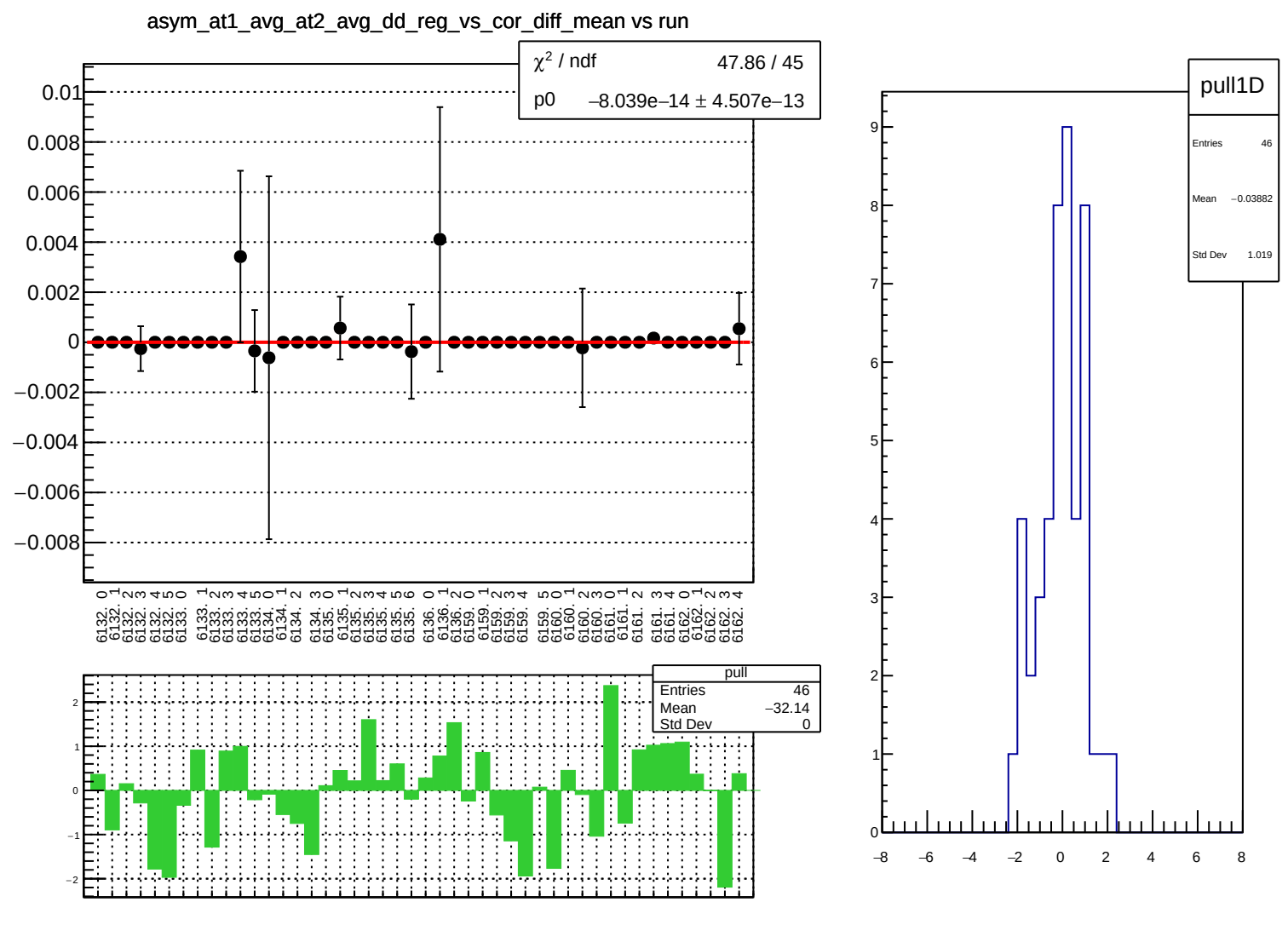

pull1D
Entries 46
Mean 0.02447
Std Dev 1.033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

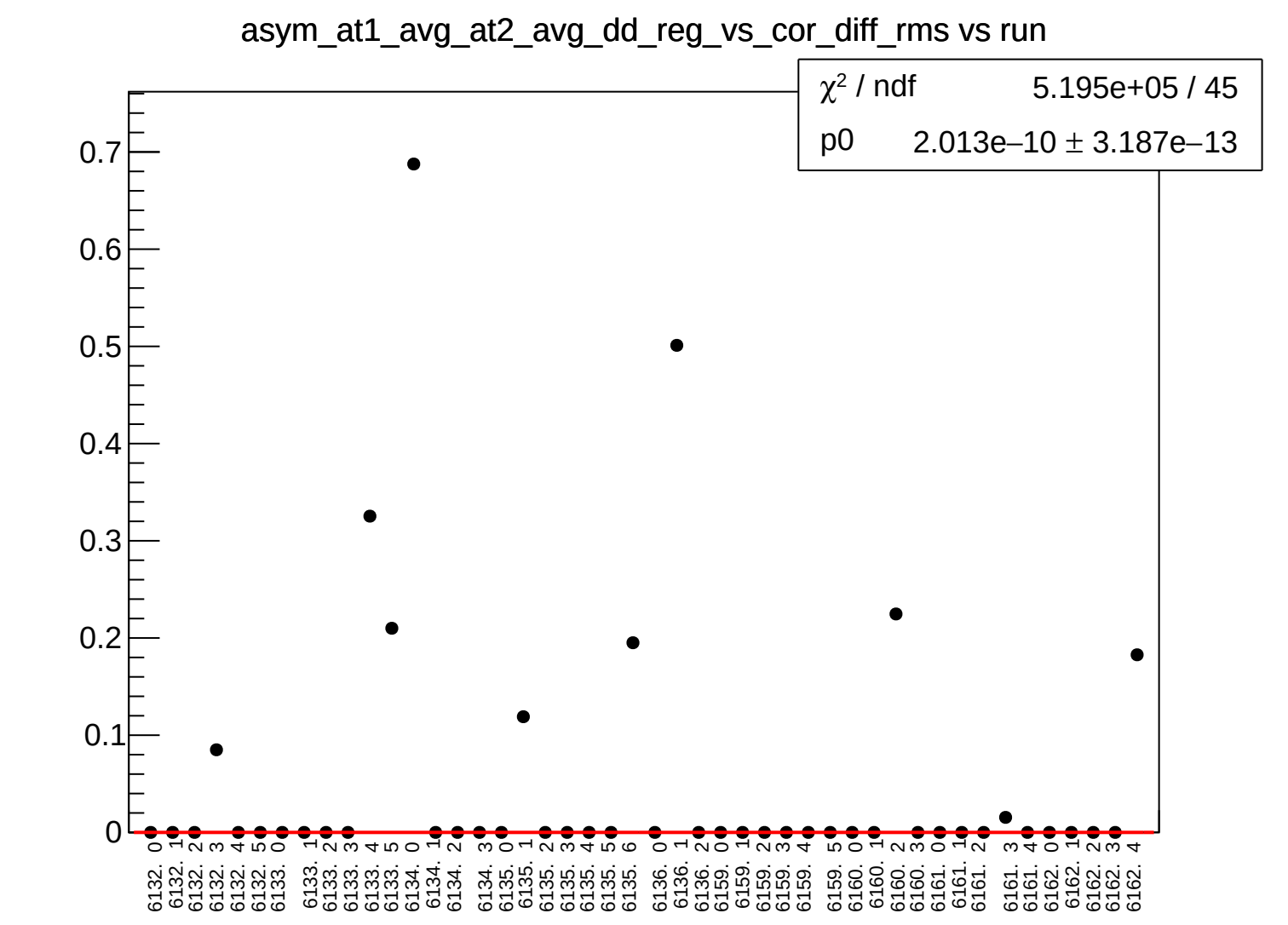

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.8e+04 / 45
p0 3627 ± 3.844
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

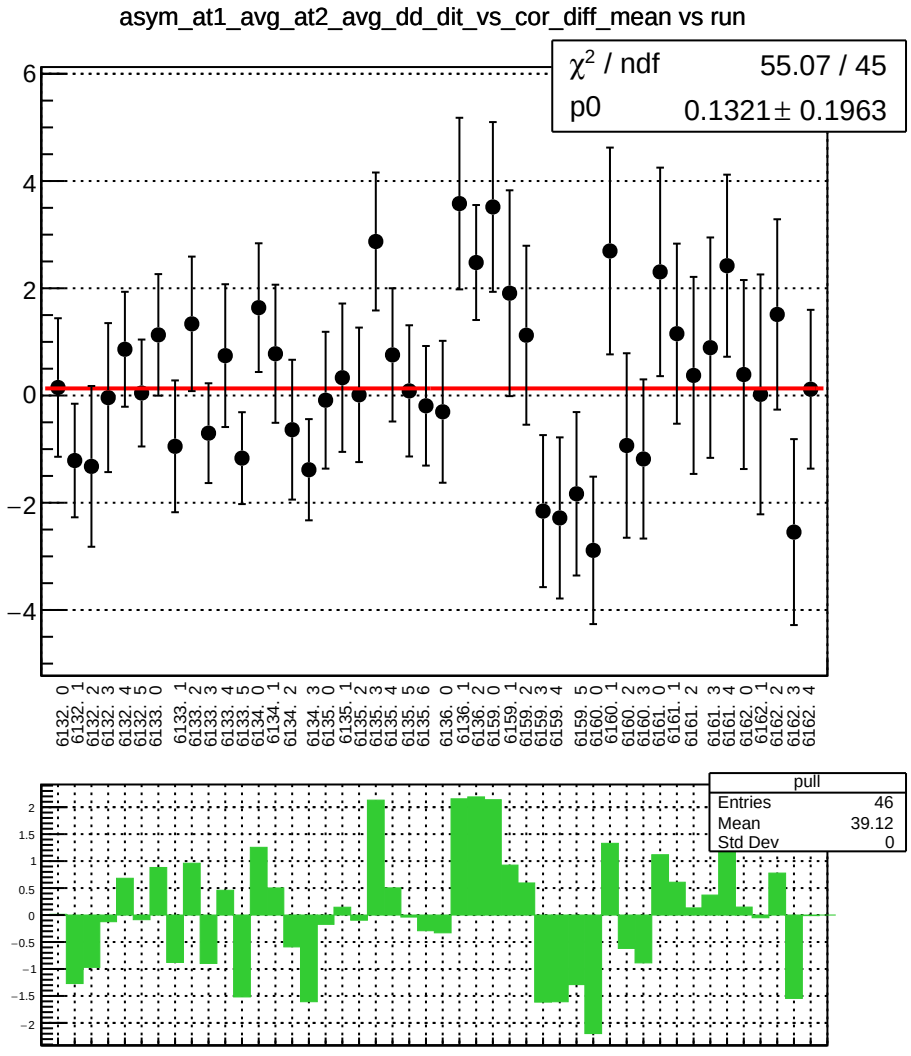

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 47.96 / 45
p0 2109 ± 5766
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 654.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

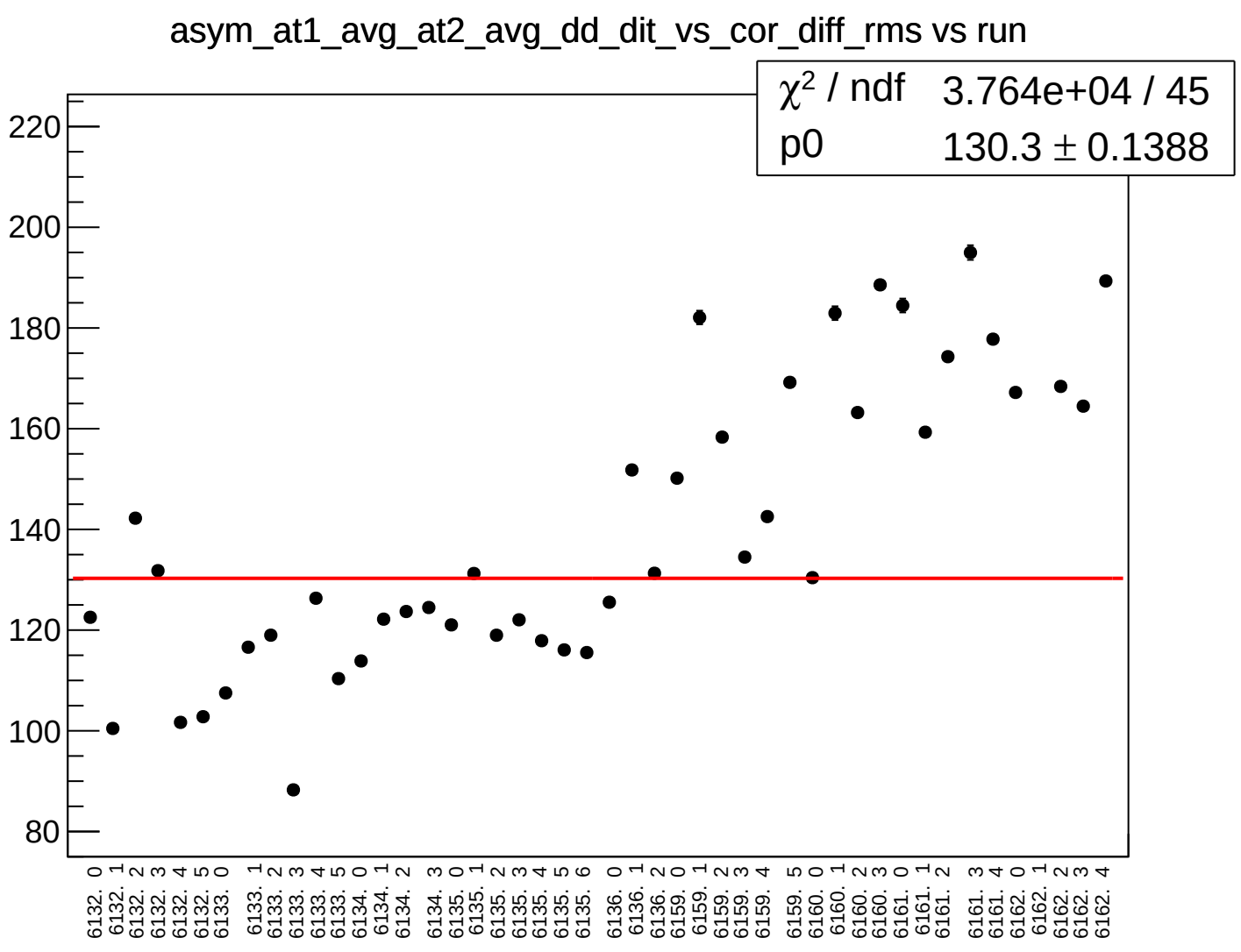

pull1D
Entries 46
Mean −0.006188
Std Dev 1.021
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

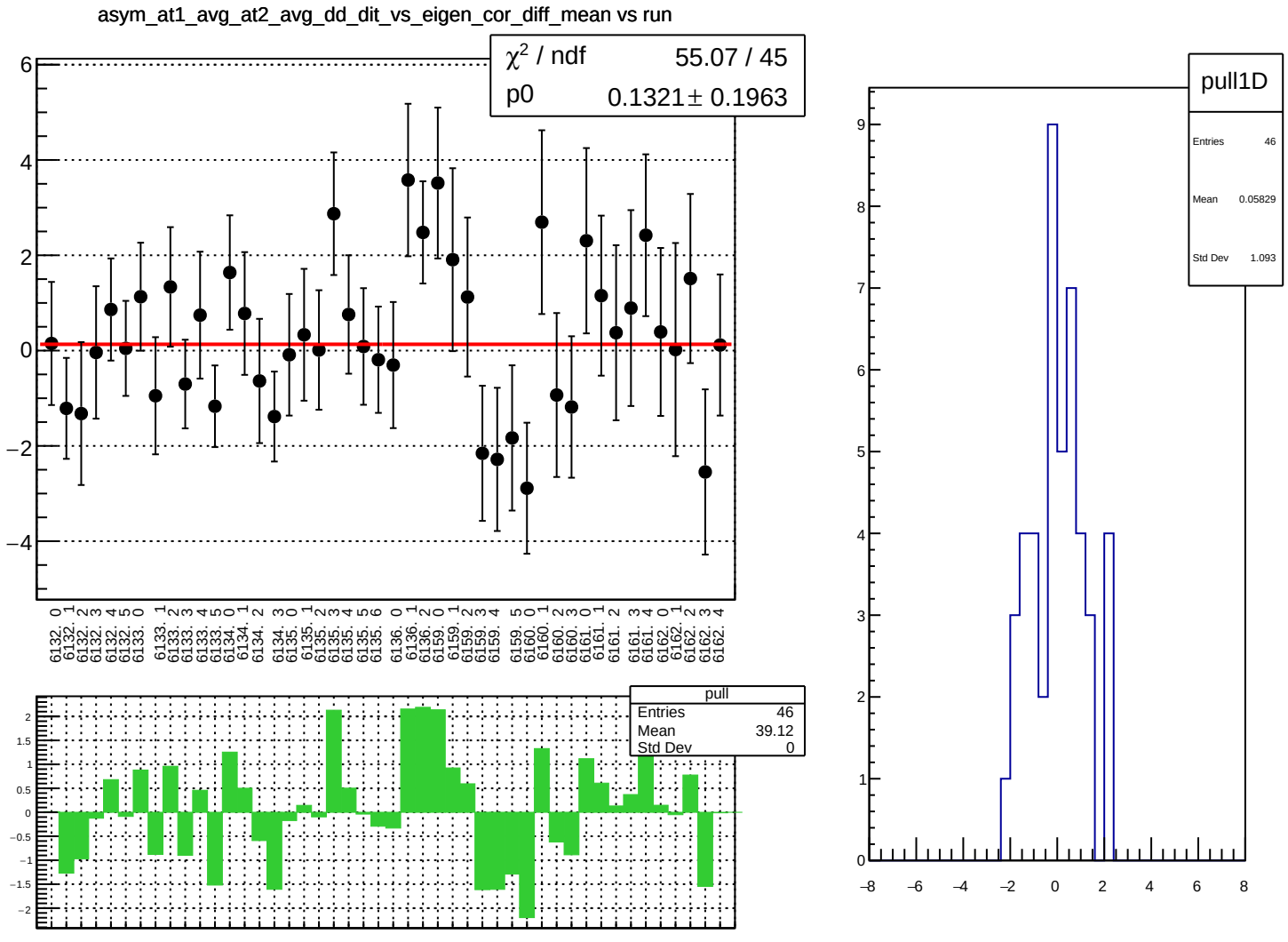

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 2.43e+04 / 45
p0 3855 ± 4.077
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

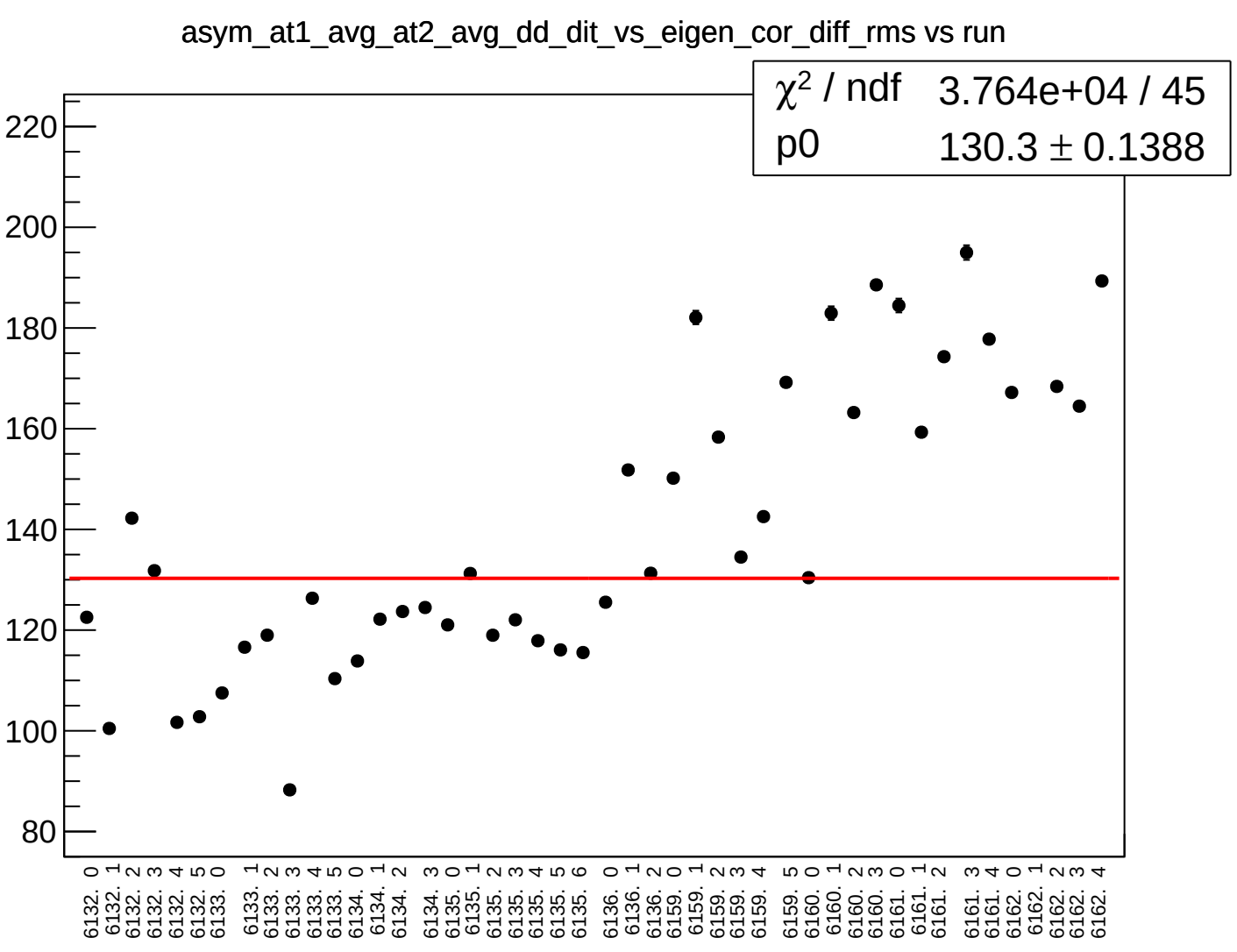

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 47.86 / 45
p0 −8.039e−14 ± 4.507e−13
pull
Entries 46
Mean −32.14
Std Dev 0
pull1D
Entries 46
Mean −0.03882
Std Dev 1.019

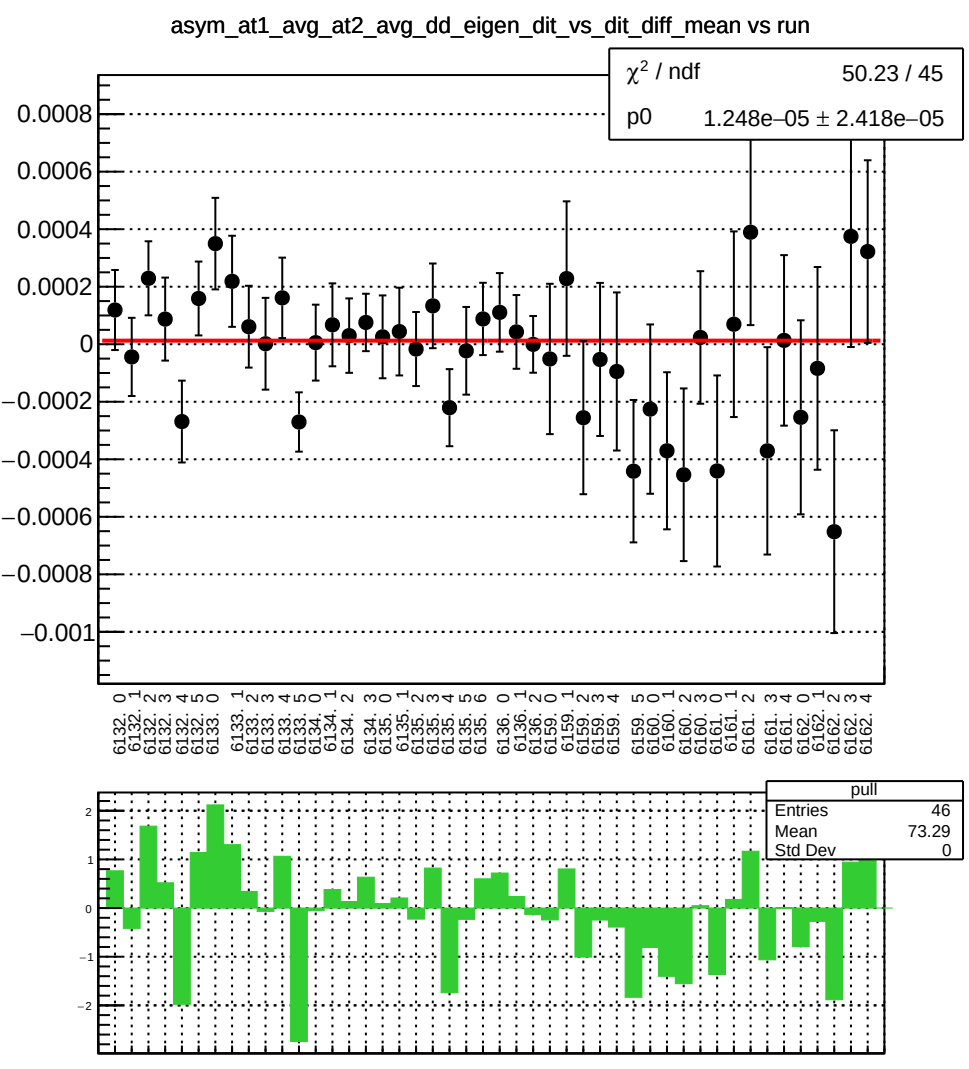

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.195e+05 / 45
p0 2.013e−10 ± 3.187e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

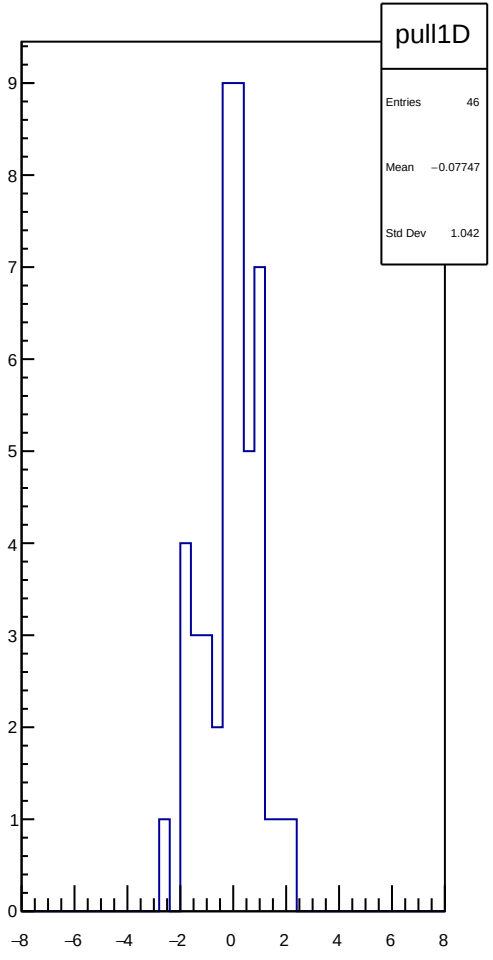

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 55.07 / 45
p0 0.1321 ± 0.1963
pull
Entries 46
Mean 39.12
Std Dev 0
pull1D
Entries 46
Mean 0.05829
Std Dev 1.093

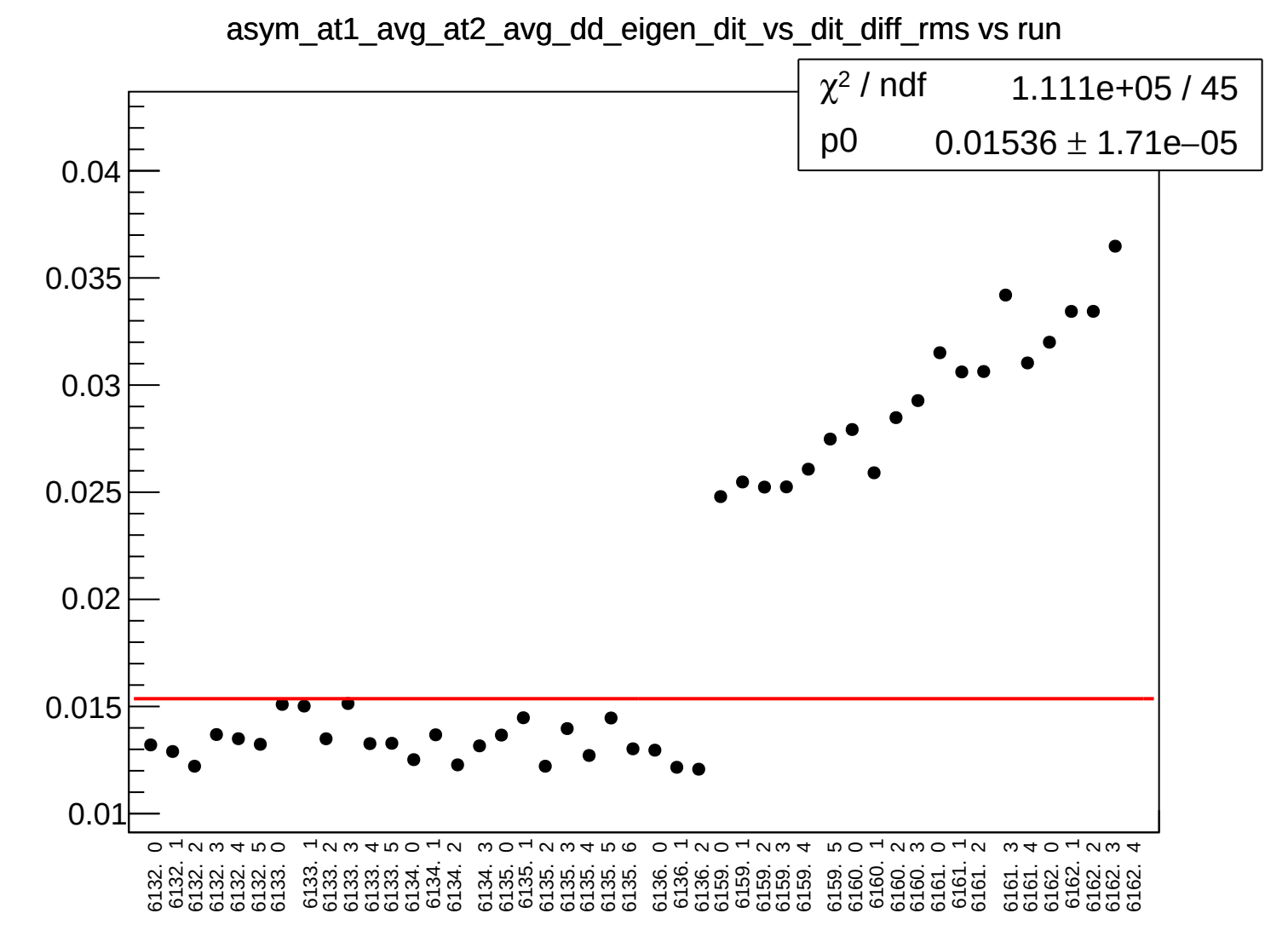

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.764e+04 / 45
p0 130.3 ± 0.1388
220
200
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

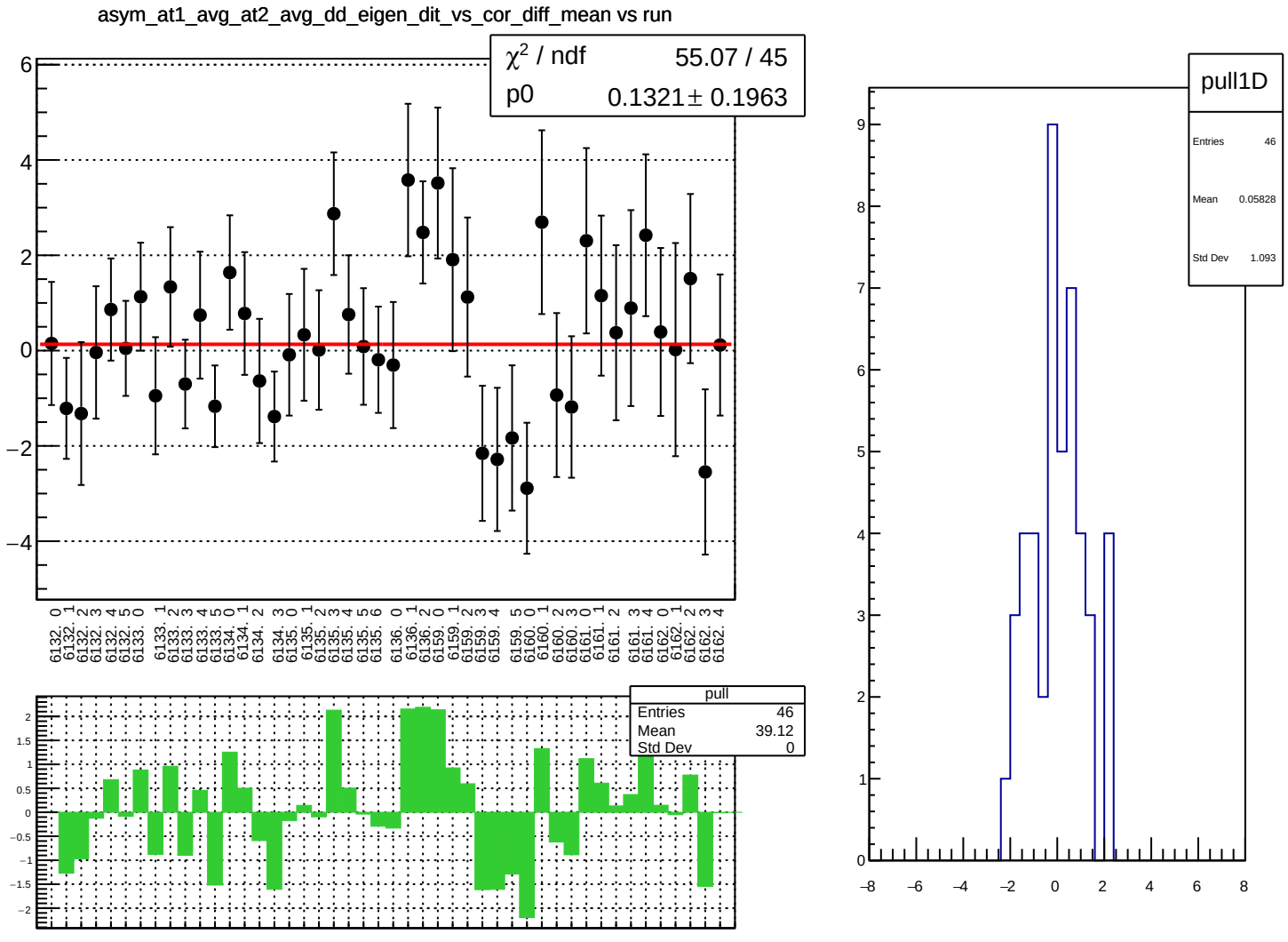

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 55.07 / 45
p0 0.1321 ± 0.1963
pull
Entries 46
Mean 39.12
Std Dev 0
pull1D
Entries 46
Mean 0.05829
Std Dev 1.093

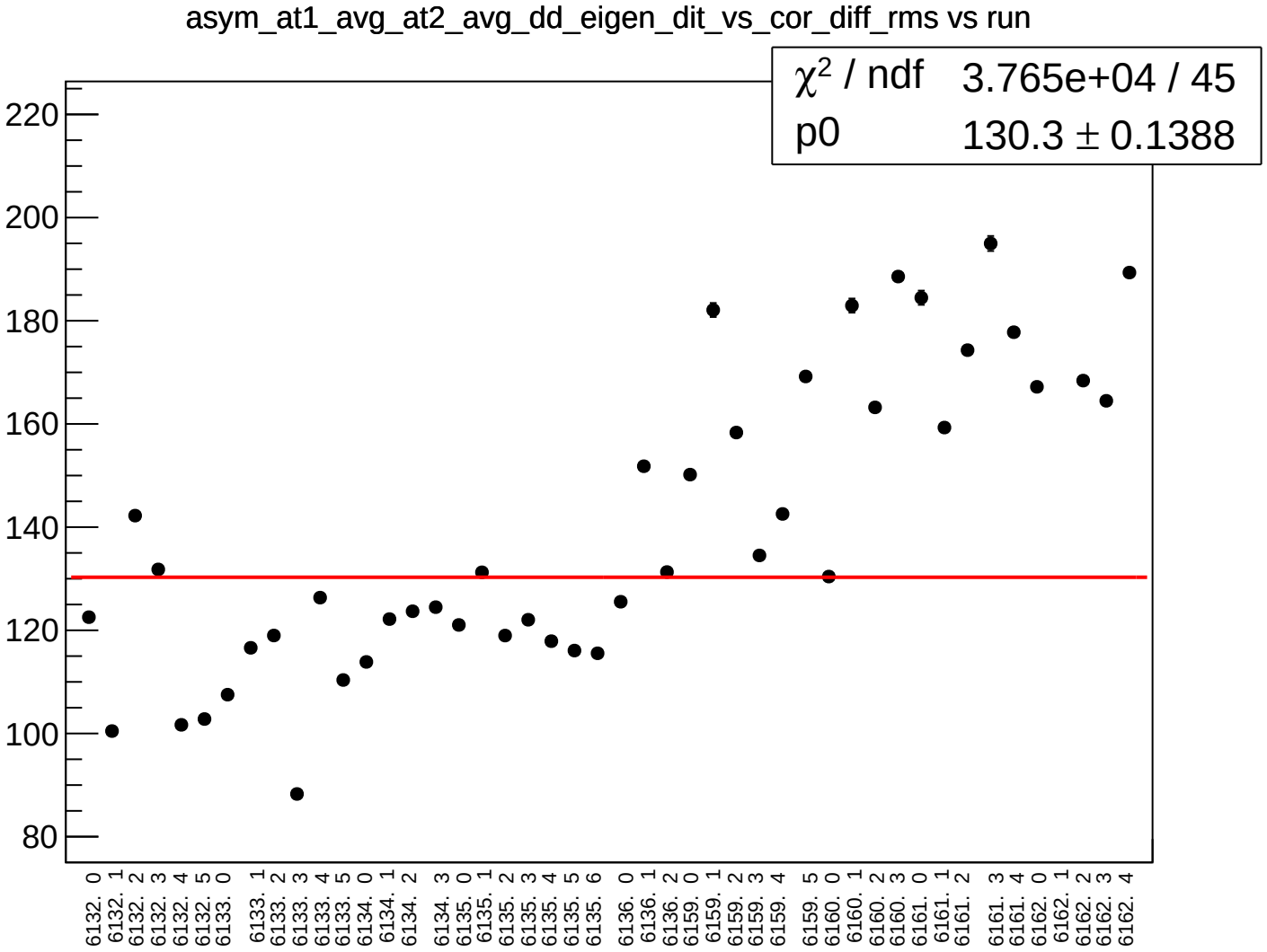

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.764e+04 / 45
p0 130.3 ± 0.1388
220
200
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 50.23 / 45
p0 1.248e−05 ± 2.418e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 73.29
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.07747
Std Dev 1.042
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.111e+05 / 45
p0 0.01536 ± 1.71e−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
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 55.07 / 45
p0 0.1321 ± 0.1963
pull
Entries 46
Mean 39.12
Std Dev 0
pull1D
Entries 46
Mean 0.05828
Std Dev 1.093


asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.765e+04 / 45
p0 130.3 ± 0.1388
220
200
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
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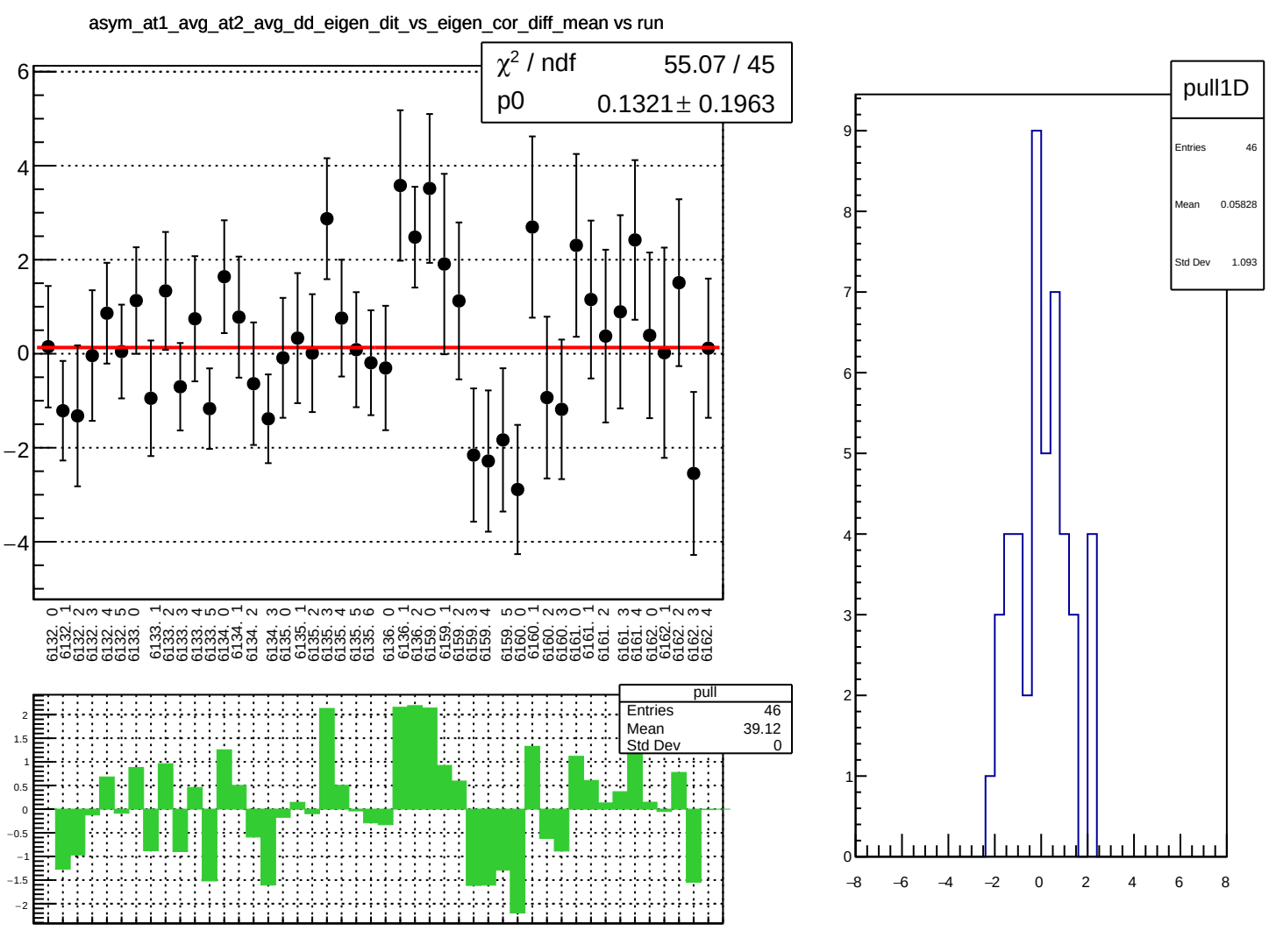
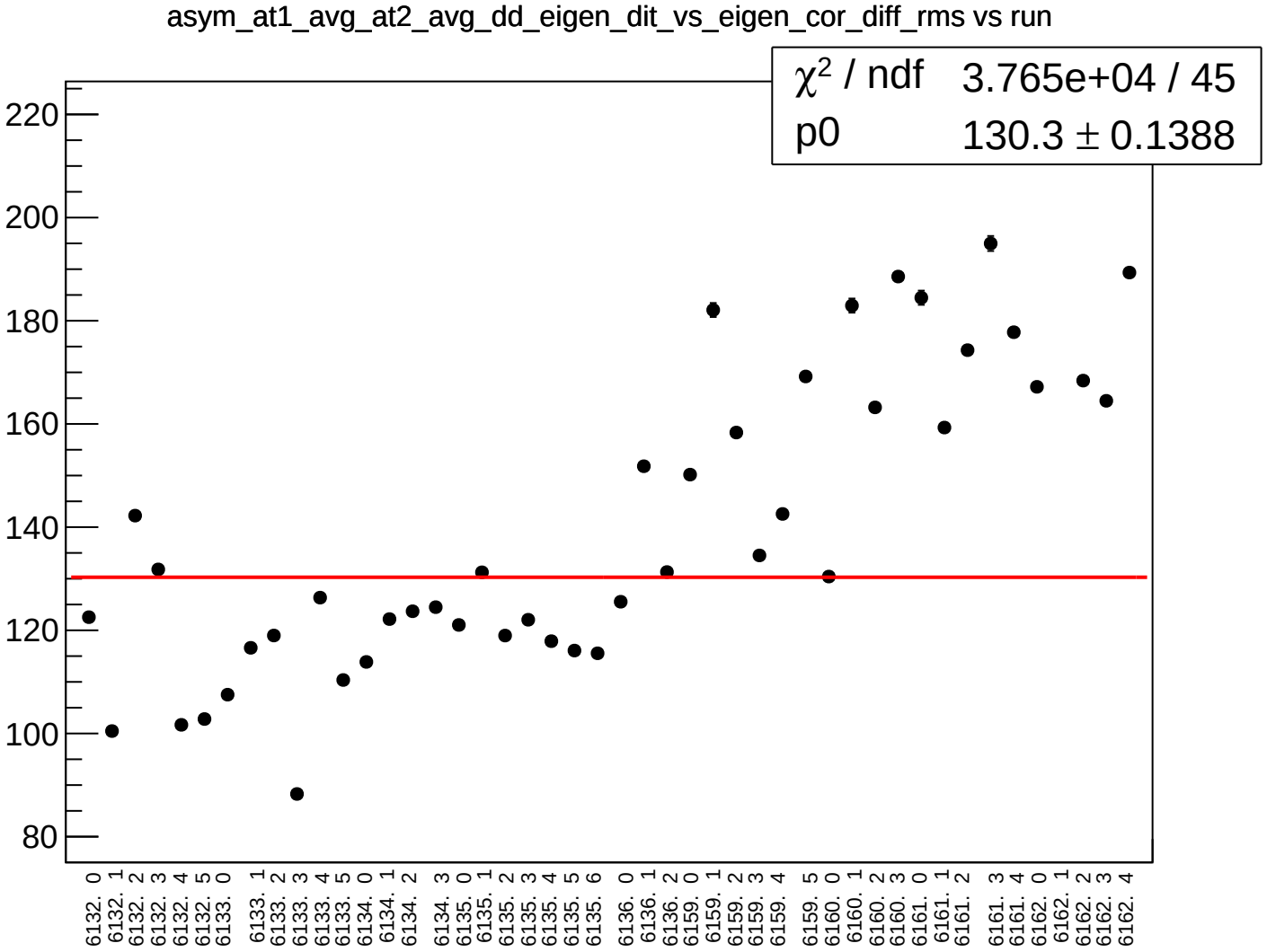
6162. 4


asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 55.07 / 45
p0 0.1321 ± 0.1963
pull
Entries 46
Mean 39.12
Std Dev 0
pull1D
Entries 46
Mean 0.05828
Std Dev 1.093


asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.765e+04 / 45
p0 130.3 ± 0.1388
220
200
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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6161. 4
6162. 0
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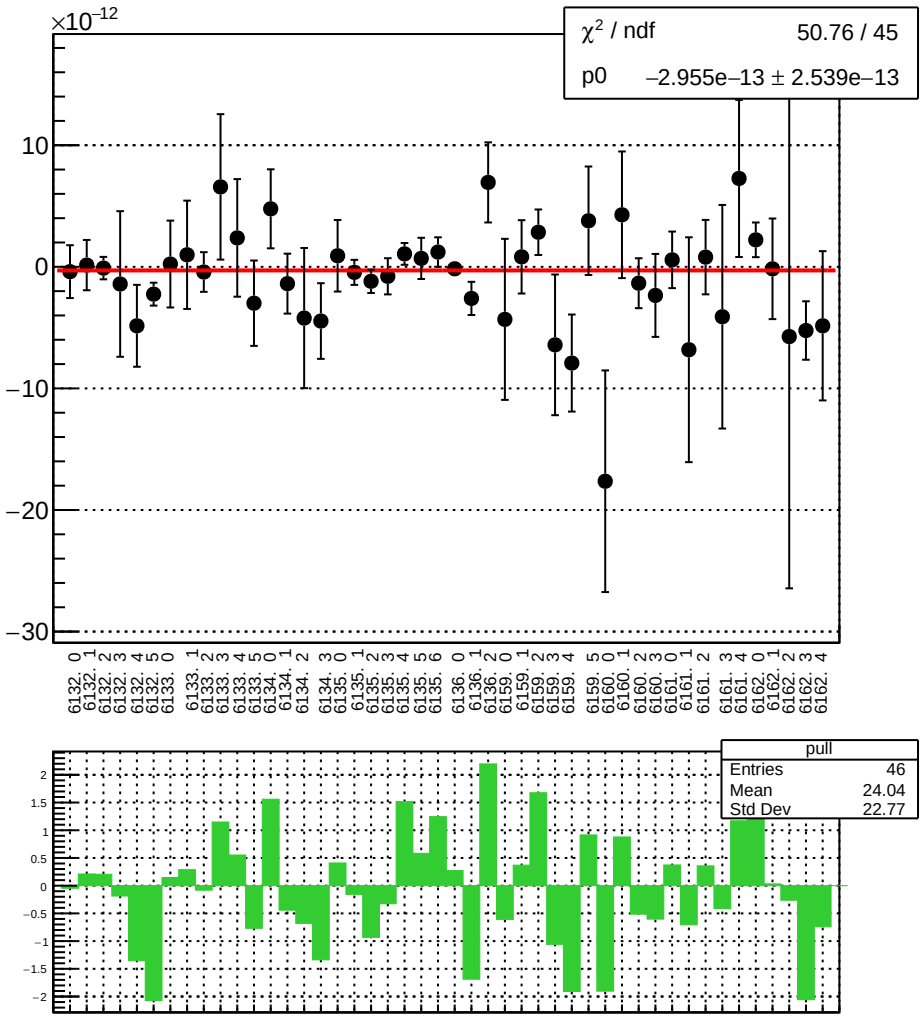
asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 50.76 / 45
p0 −2.955e−13 ± 2.539e−13
10
0
−10
−20
−30
6132. 0
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6161. 0
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6161. 2
6161. 3
6161. 4
6162. 0
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6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 24.04
Std Dev 22.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.06467
Std Dev 1.048
9
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5
4
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1
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−6
−4
−2
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6
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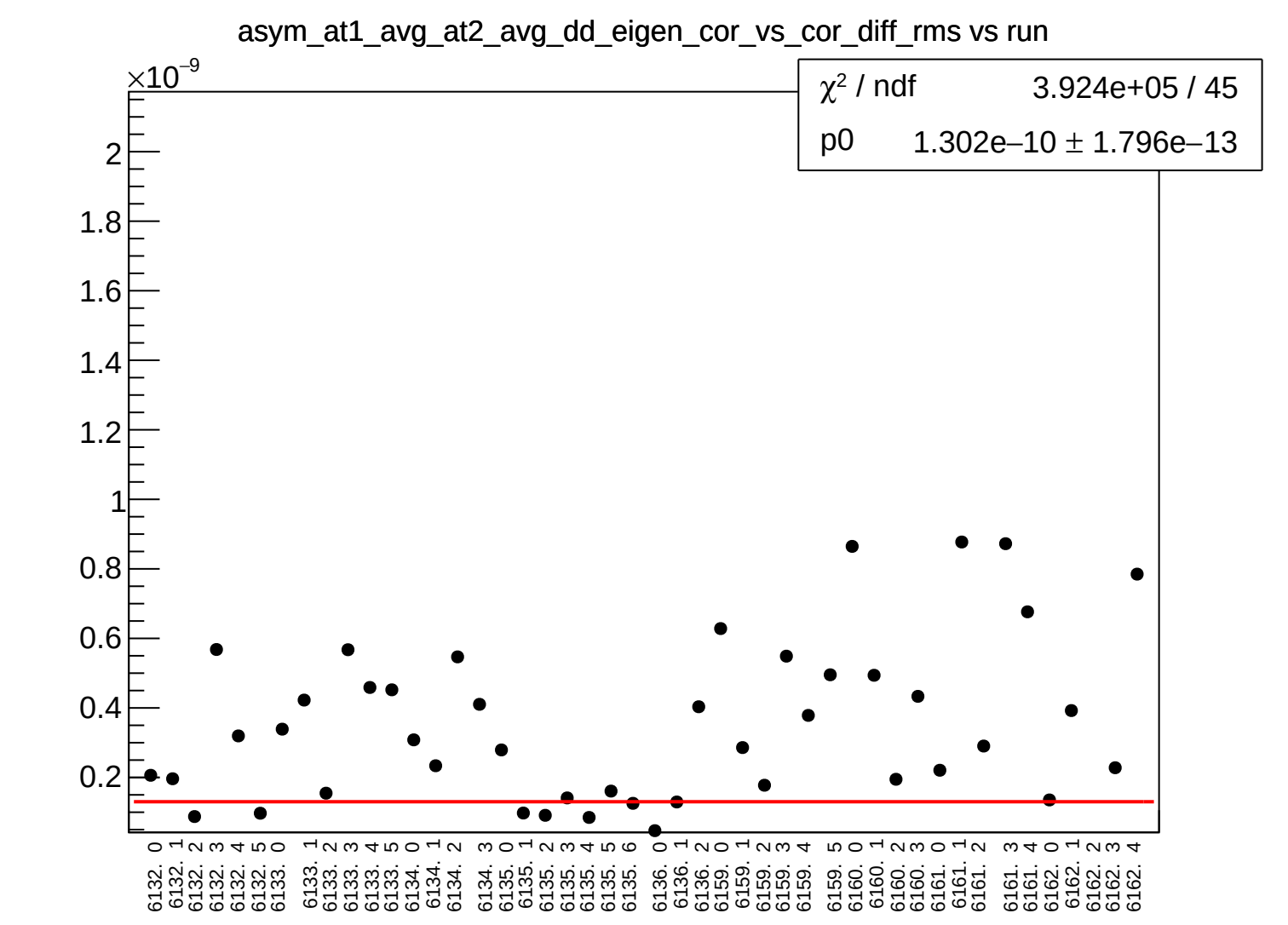
asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.924e+05 / 45
p0 1.302e−10 ± 1.796e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6132. 0
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6134. 2
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6160. 2
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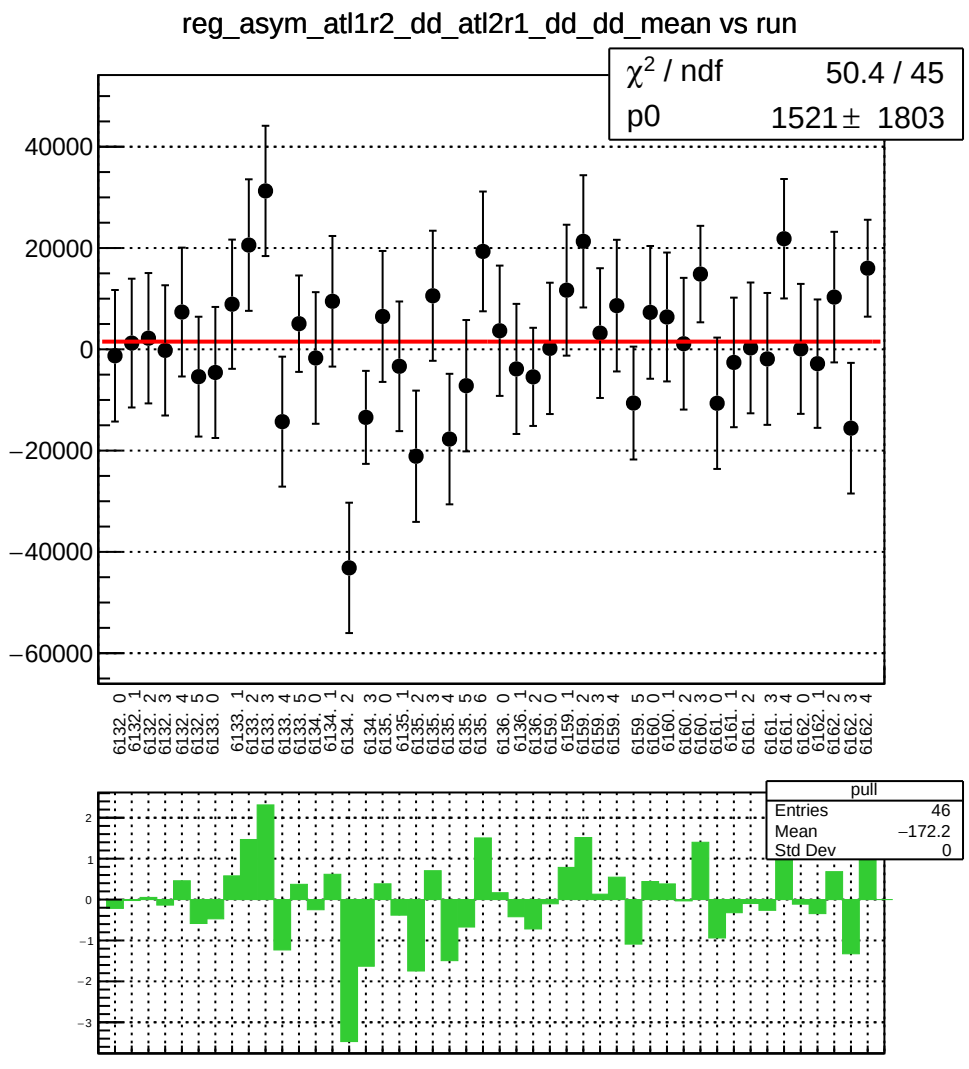
reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 50.4 / 45
p0 1521 ± 1803
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −172.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.006847
Std Dev 1.047
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−4
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6
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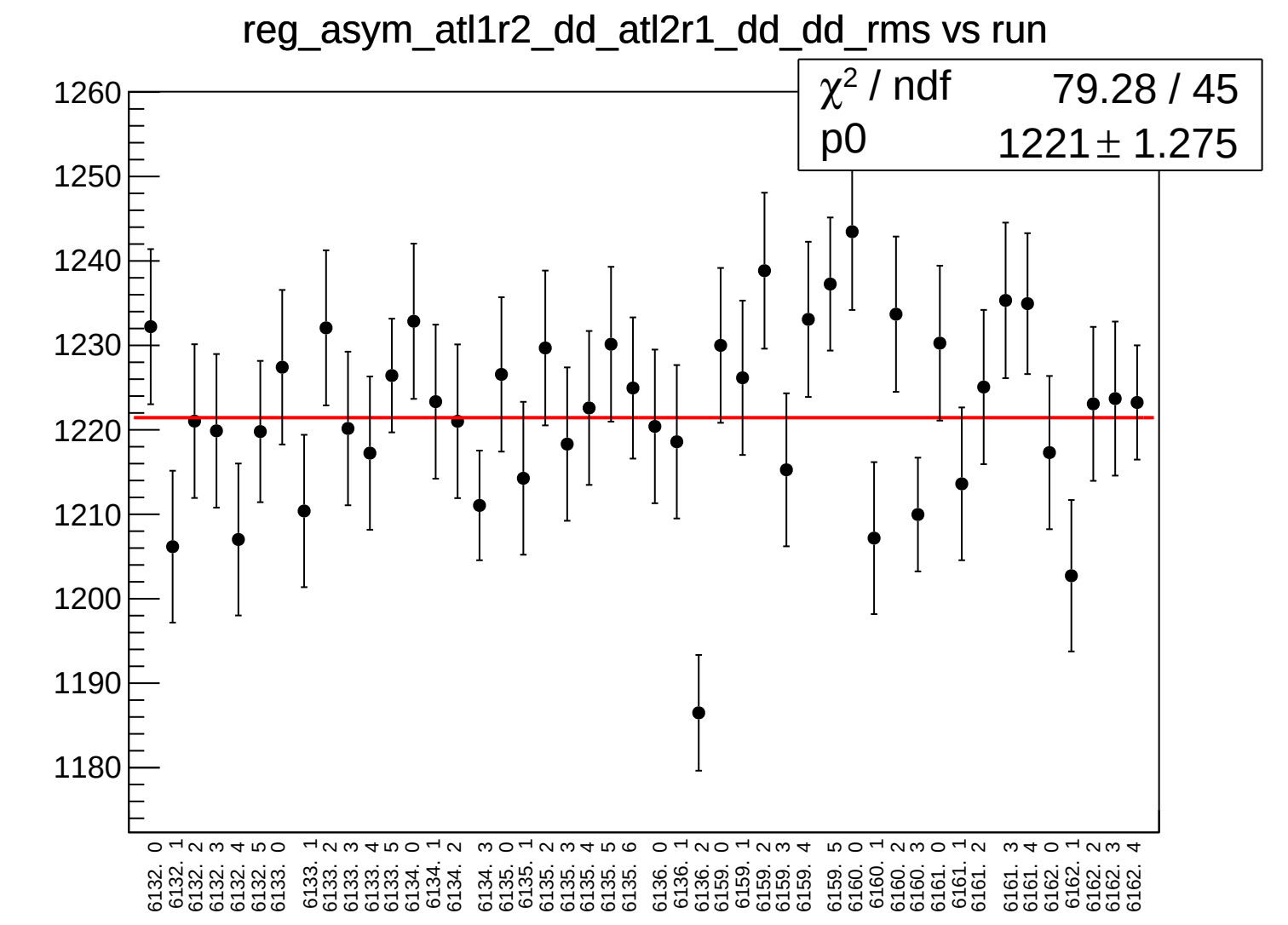
reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 79.28 / 45
p0 1221 ± 1.275
1260
1250
1240
1230
1220
1210
1200
1190
1180
6132. 0
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6136. 2
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6160. 2
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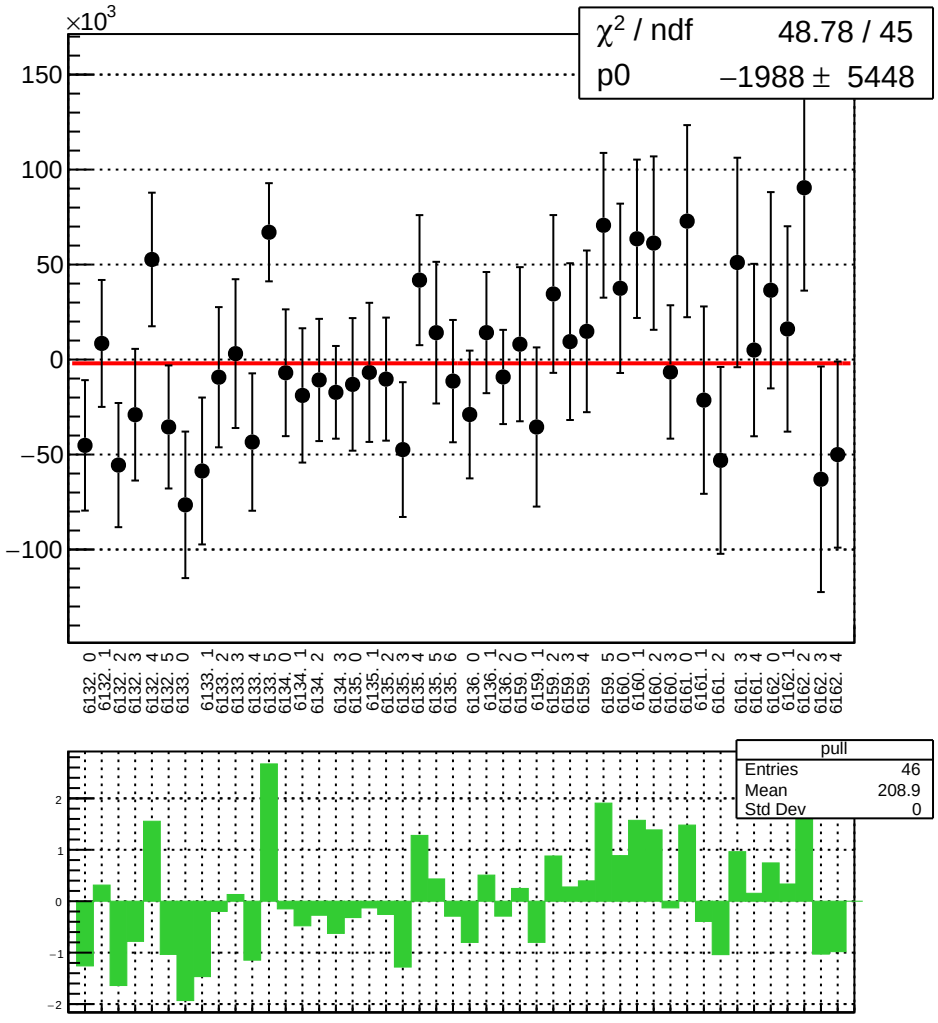
6162. 4


asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 48.78 / 45
p0 −1988 ± 5448
150
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
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6134. 0
6134. 1
6134. 2
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6135. 0
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6135. 4
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6135. 6
6136. 0
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6136. 2
6159. 0
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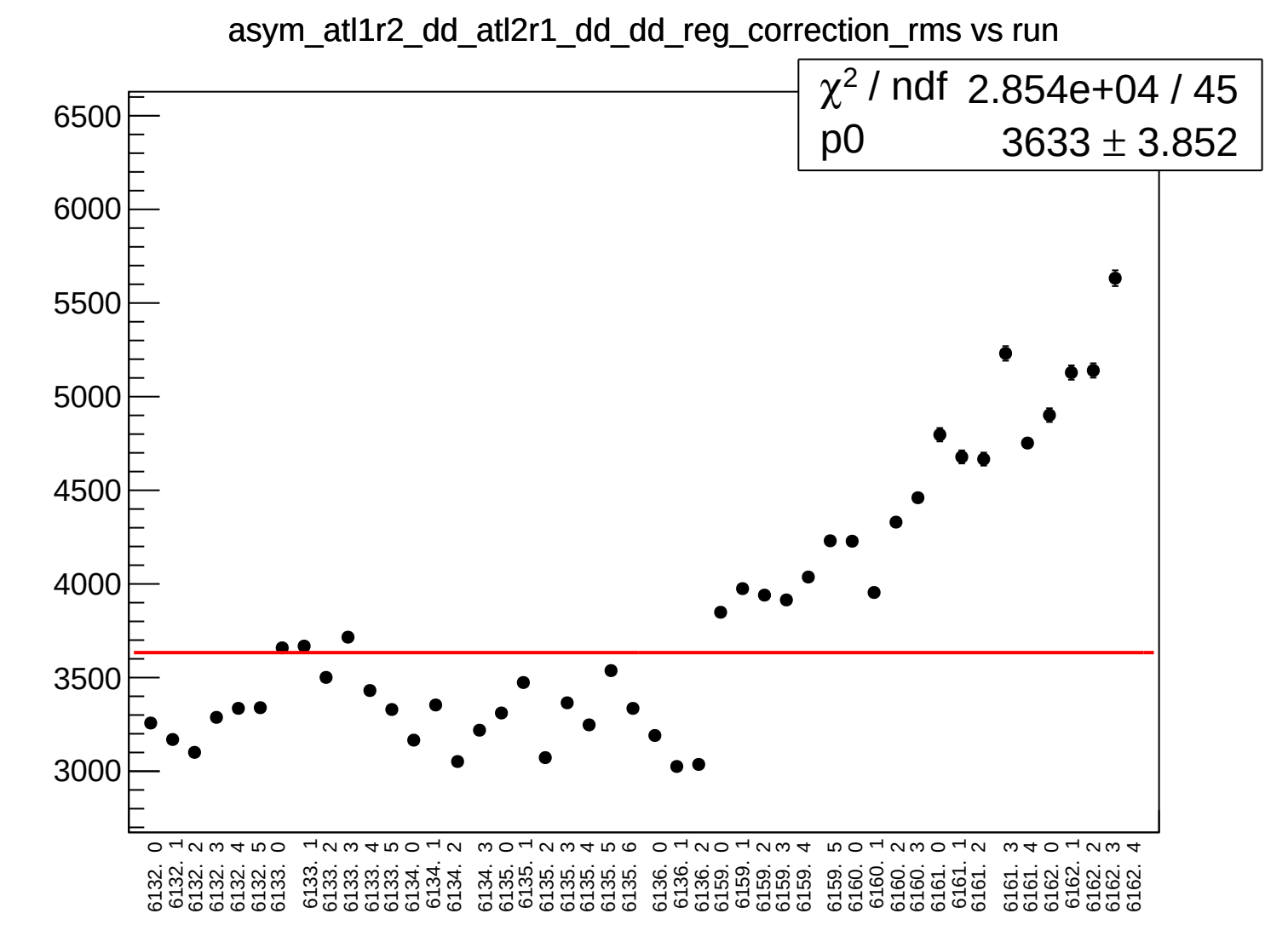
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 208.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02417
Std Dev 1.03
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 2.854e+04 / 45
p0 3633 ± 3.852
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
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6132. 3
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6160. 1
6160. 2
6160. 3
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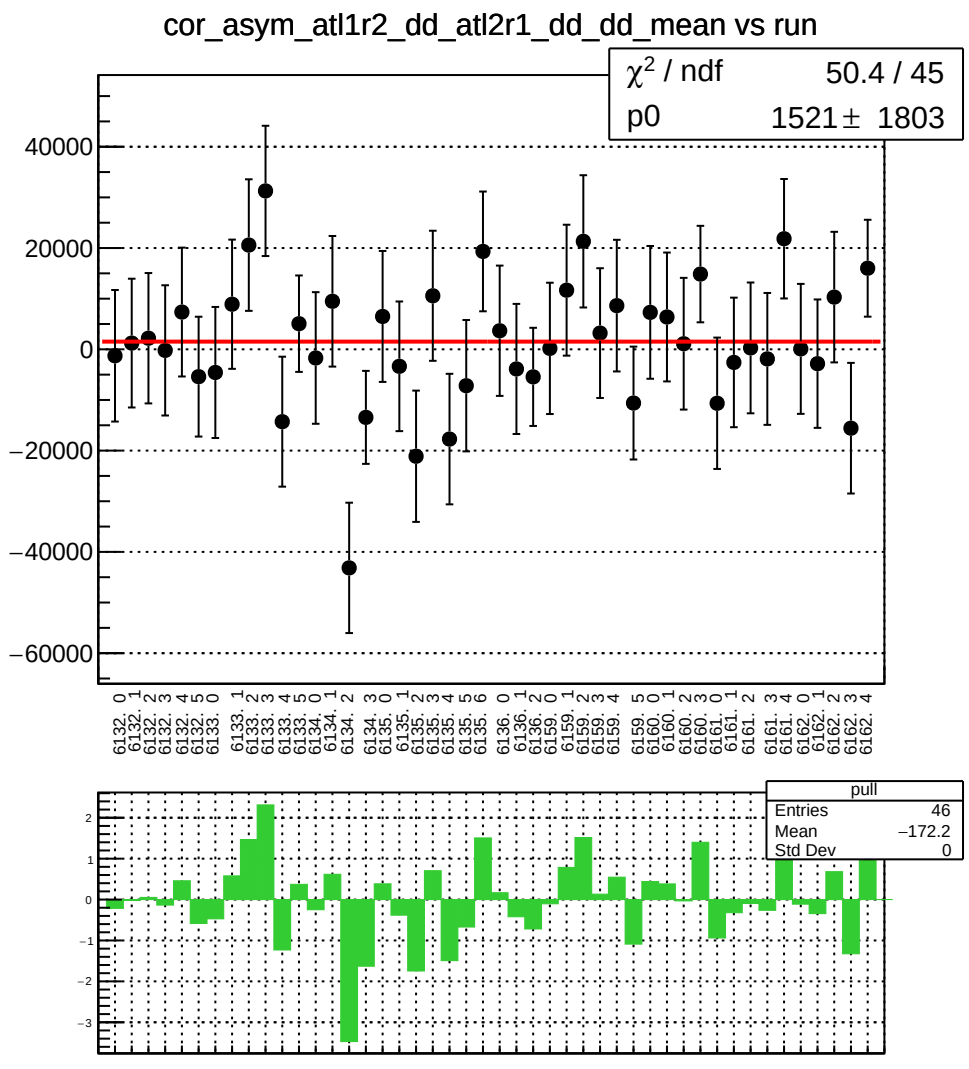
6162. 4


cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 50.4 / 45
p0 1521 ± 1803
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6134. 0
6134. 1
6134. 2
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6135. 0
6135. 1
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6135. 6
6136. 0
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6136. 2
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6160. 0
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6161. 0
6161. 1
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6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −172.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.006848
Std Dev 1.047
12
10
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−4
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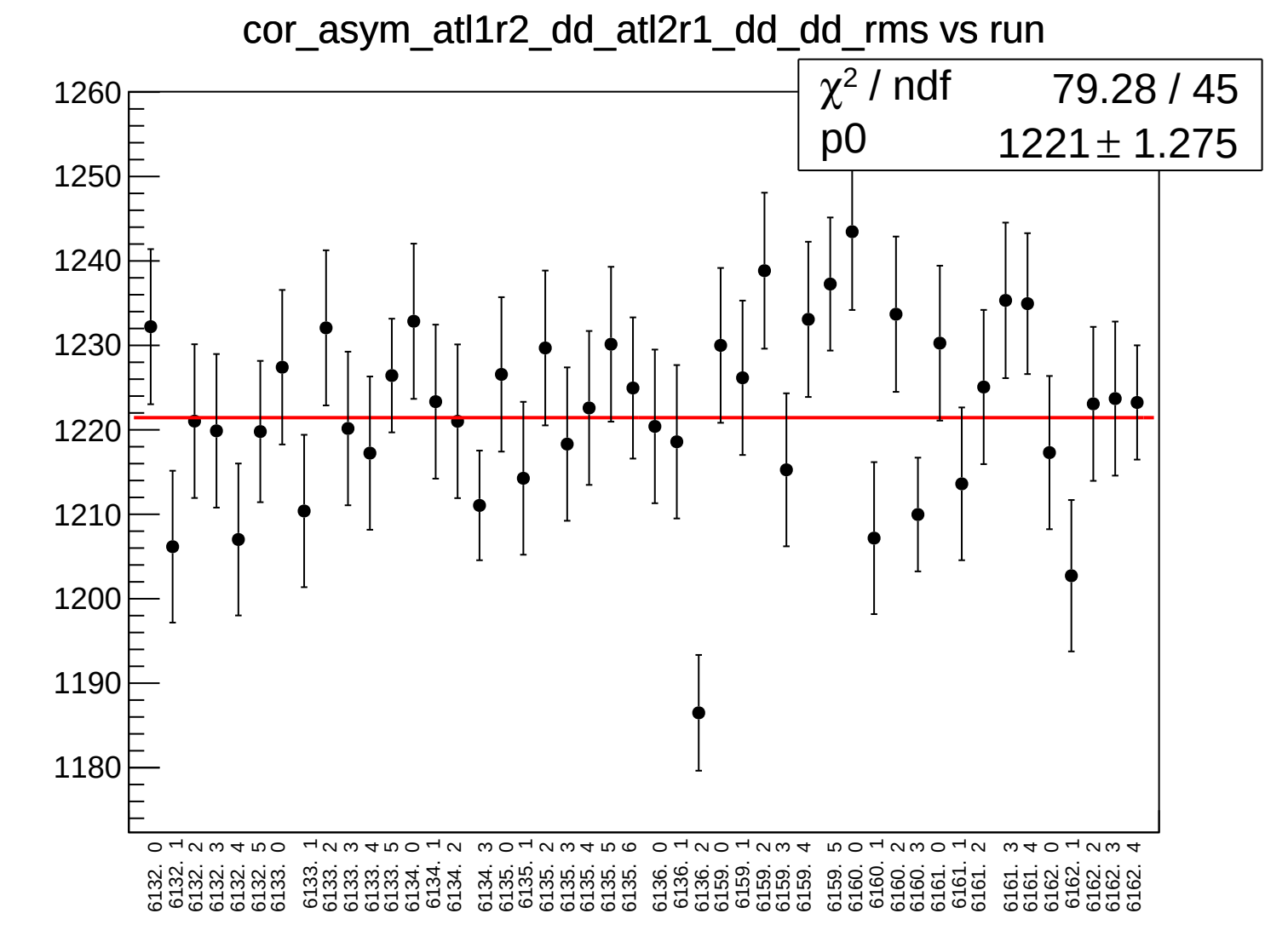
cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 79.28 / 45
p0 1221 ± 1.275
1260
1250
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1190
1180
6132. 0
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6160. 3
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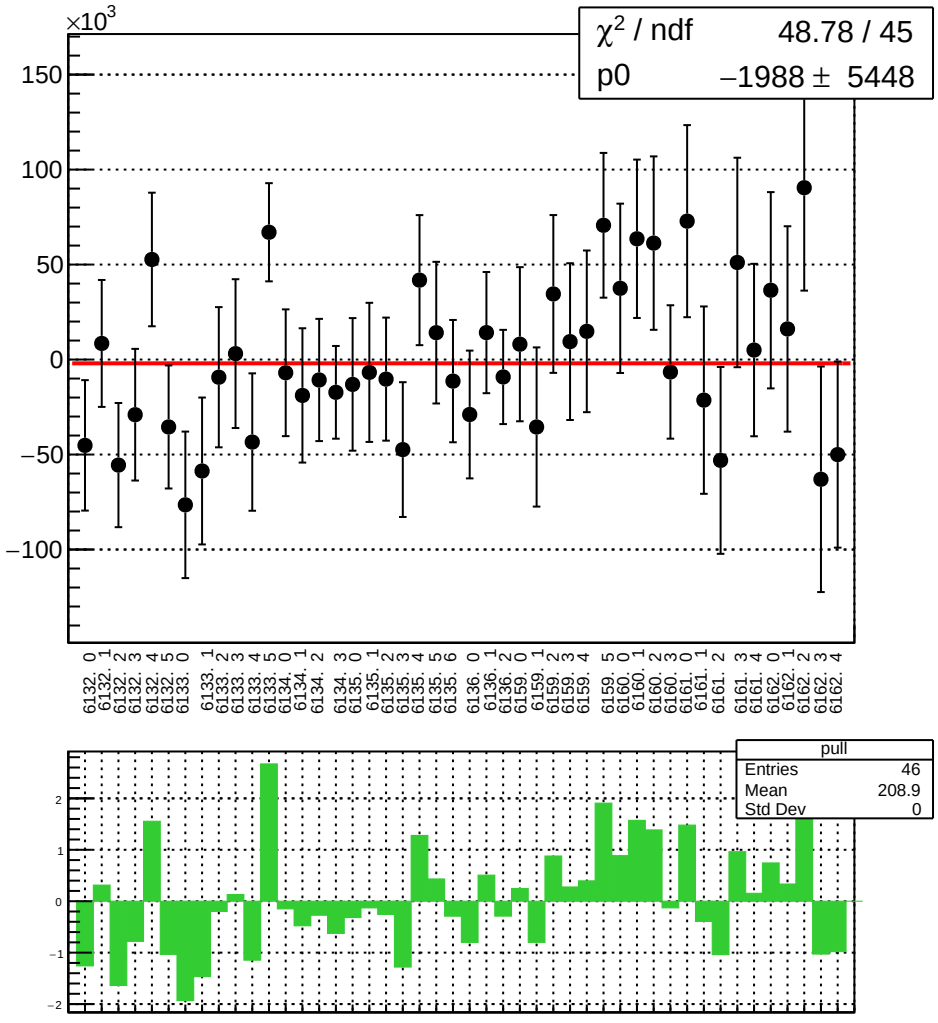
asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 48.78 / 45
p0 −1988 ± 5448
150
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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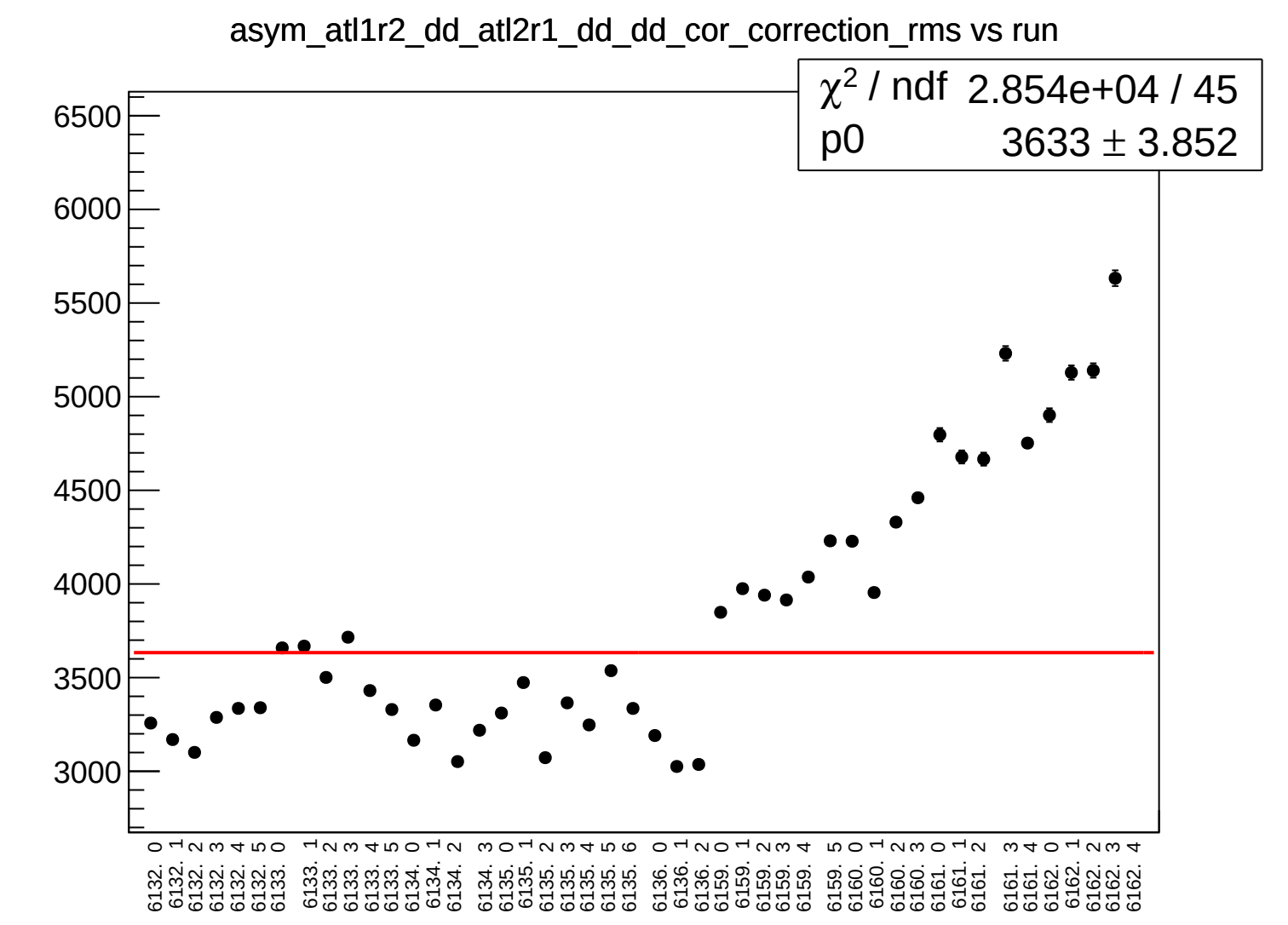
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 208.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02417
Std Dev 1.03
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 2.854e+04 / 45
p0 3633 ± 3.852
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
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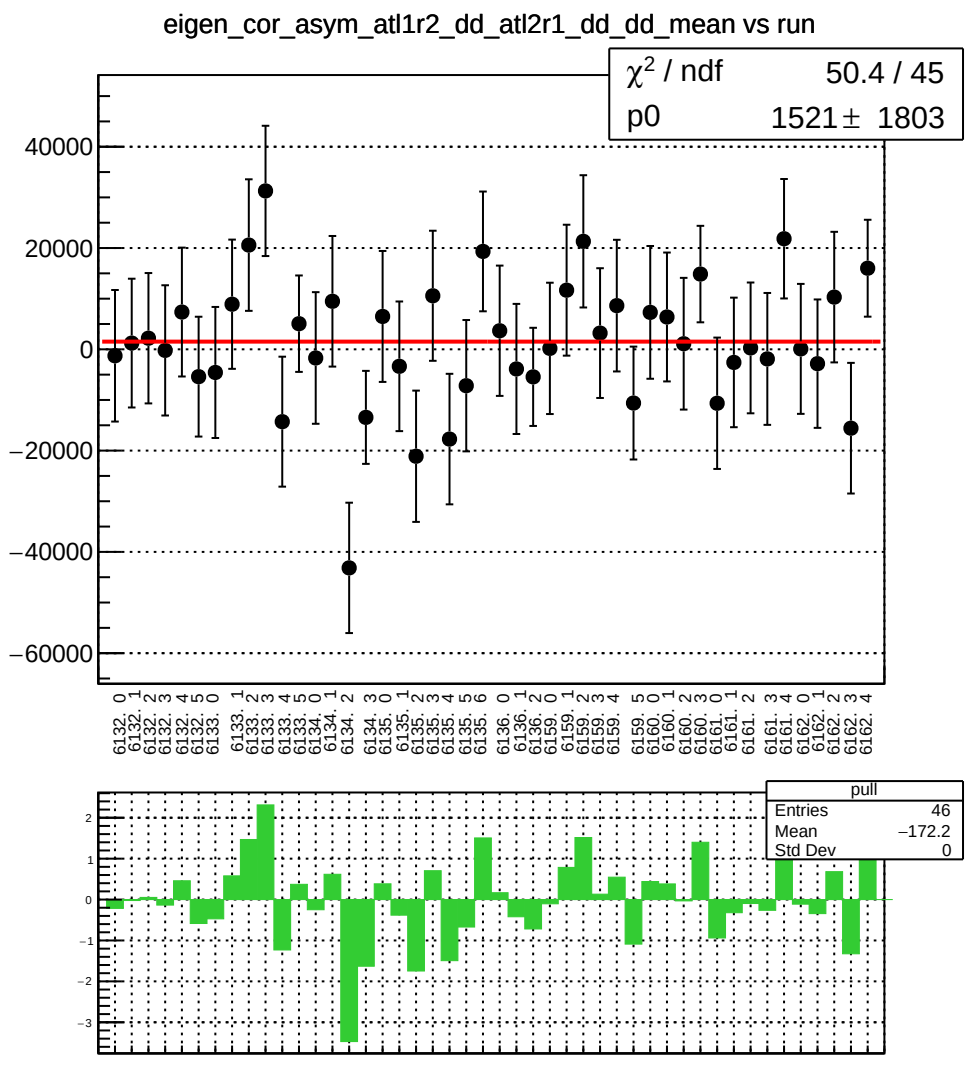
eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 50.4 / 45
p0 1521 ± 1803
40000
20000
0
−20000
−40000
−60000
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6162. 1
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pull
Entries 46
Mean −172.2
Std Dev 0
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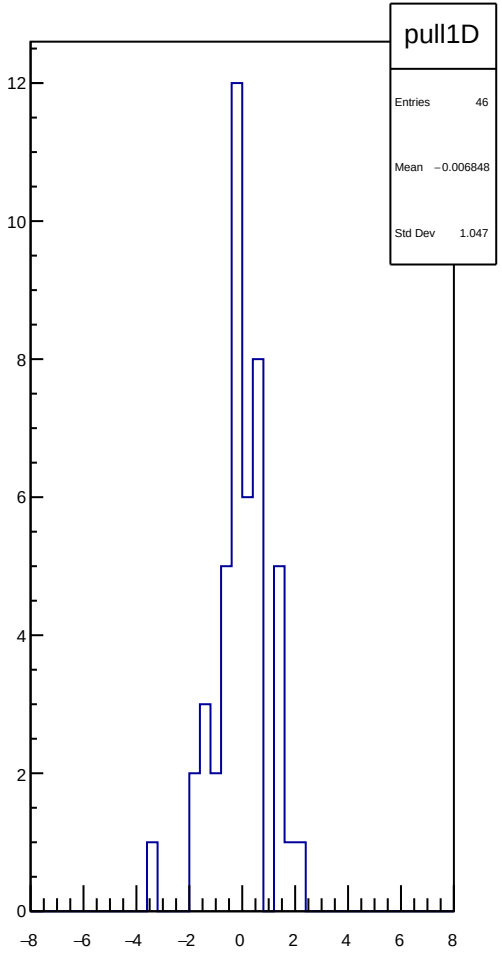
−2
−3


pull1D
Entries 46
Mean −0.006848
Std Dev 1.047
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10
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−8
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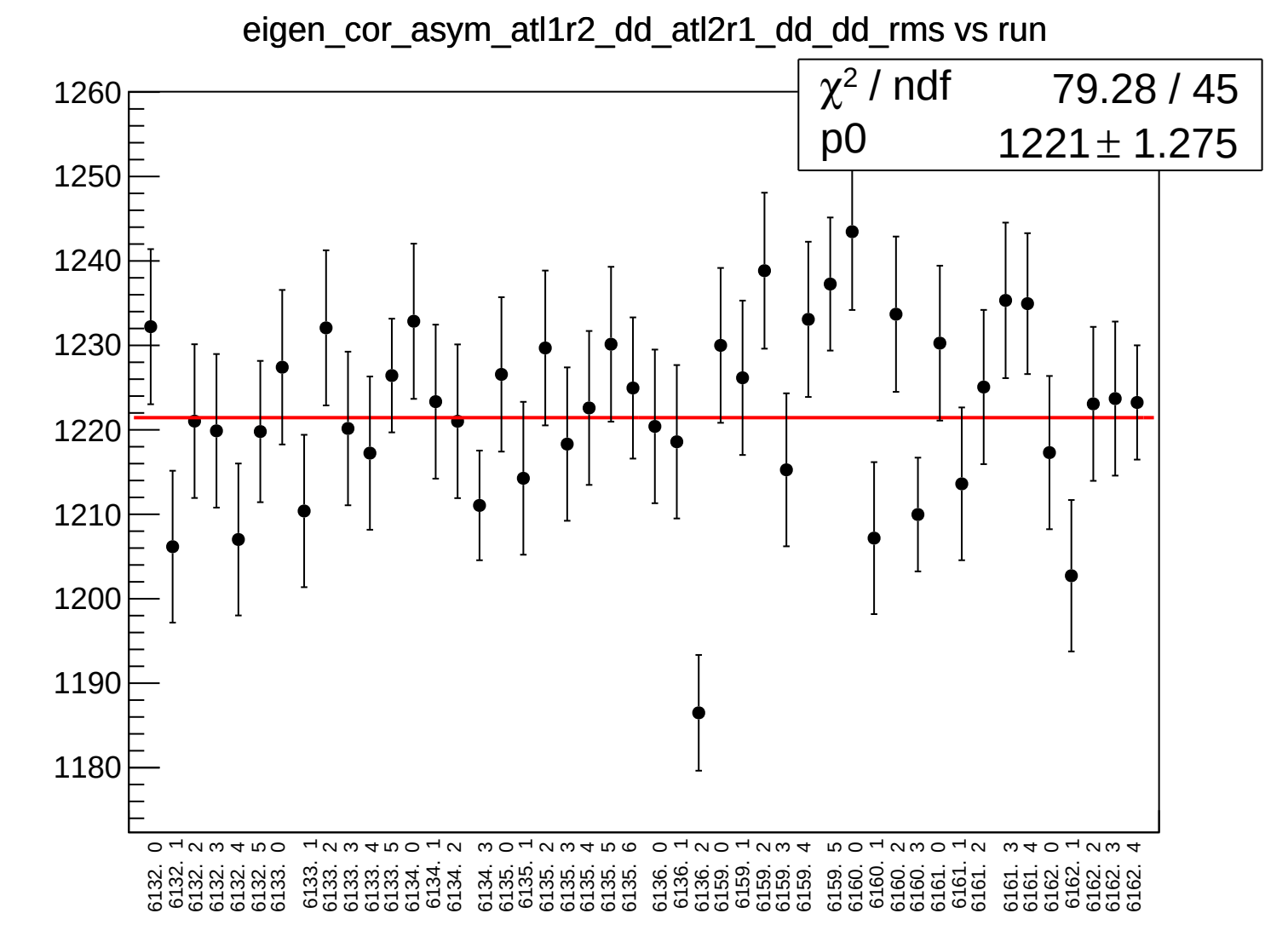
6
8


eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 79.28 / 45
p0 1221 ± 1.275
1260
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1190
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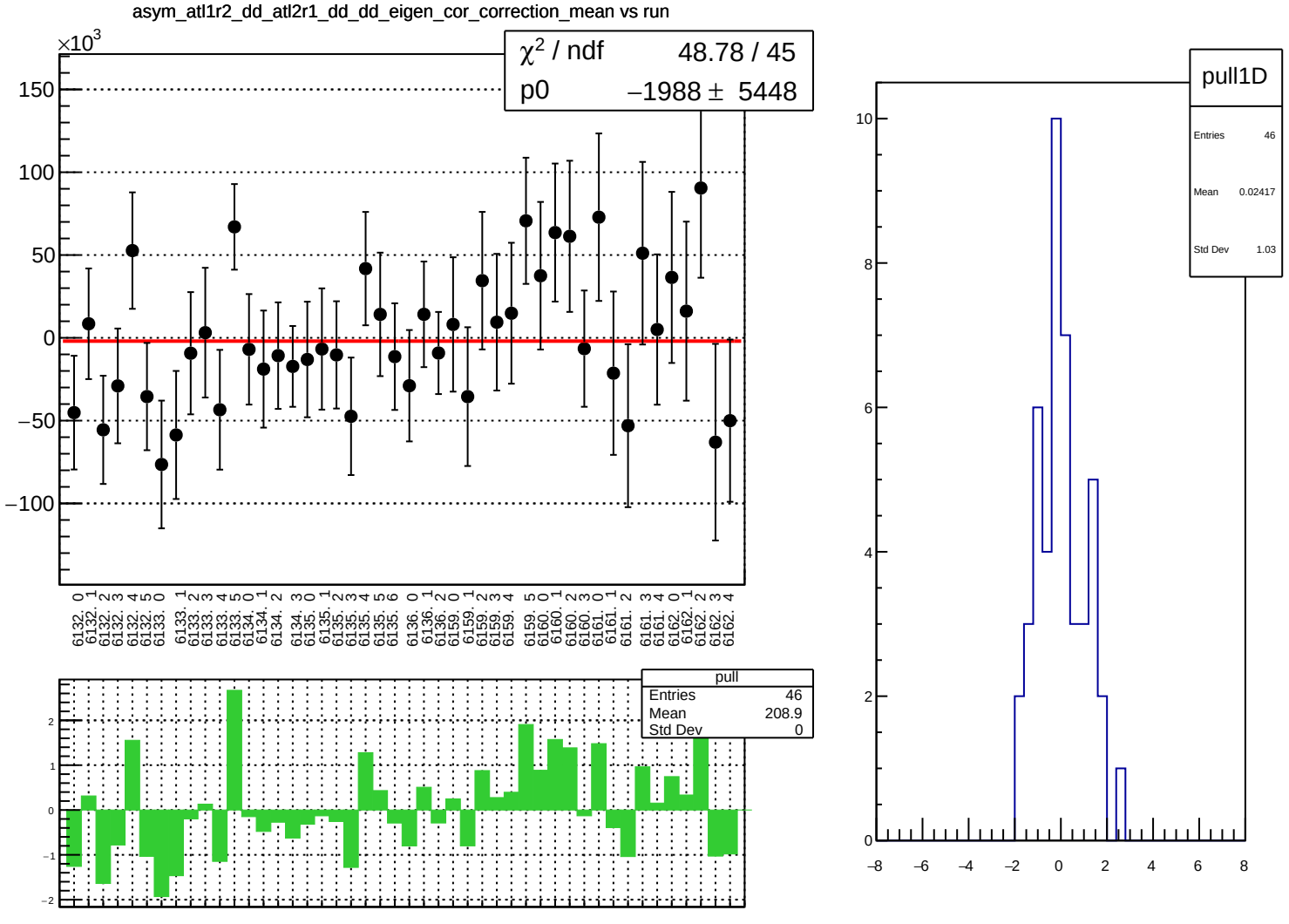
asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 48.78 / 45
p0 −1988 ± 5448
150
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
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6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 208.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02417
Std Dev 1.03
10
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−8
−6
−4
−2
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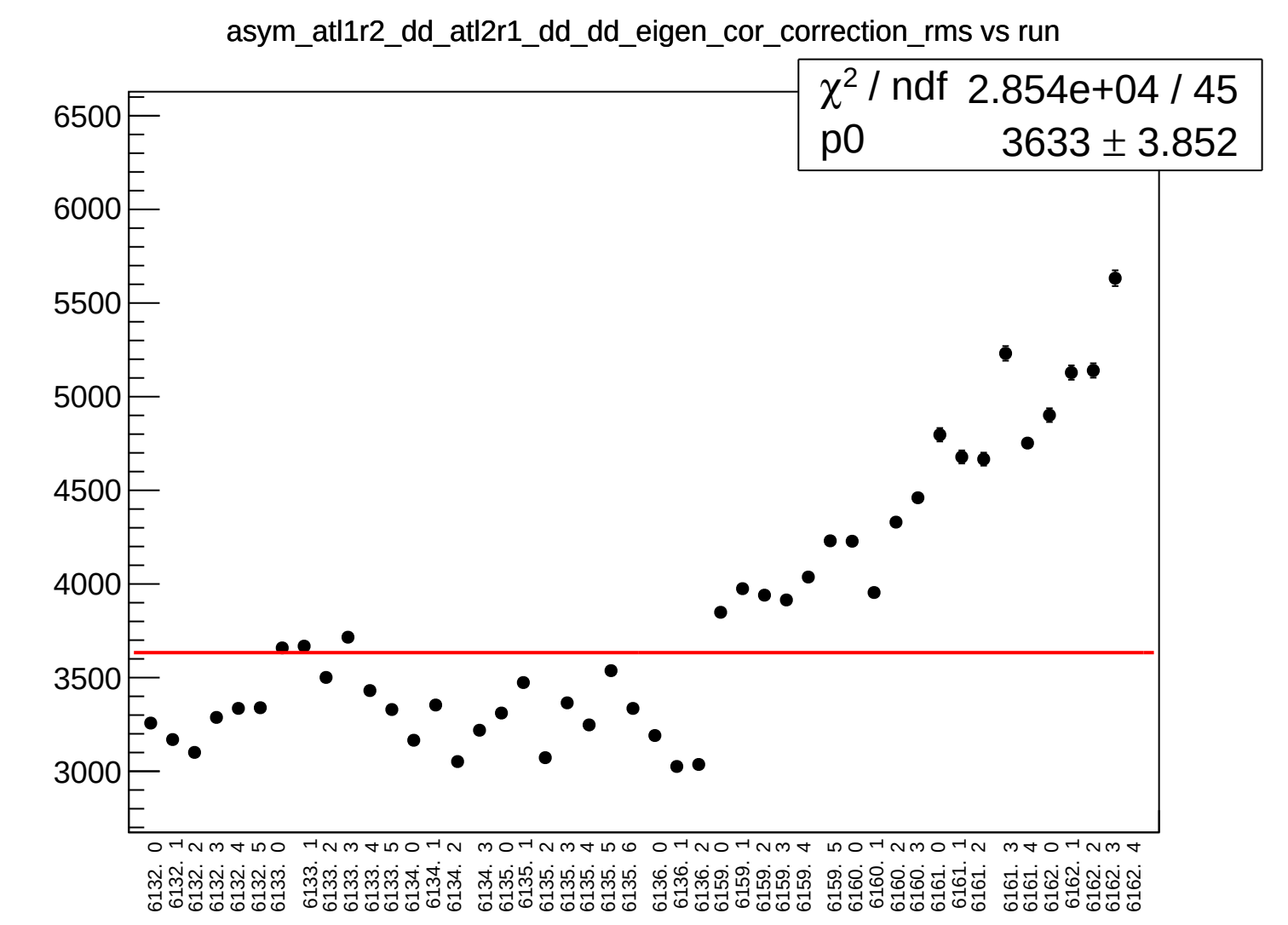
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.854e+04 / 45
p0 3633 ± 3.852
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
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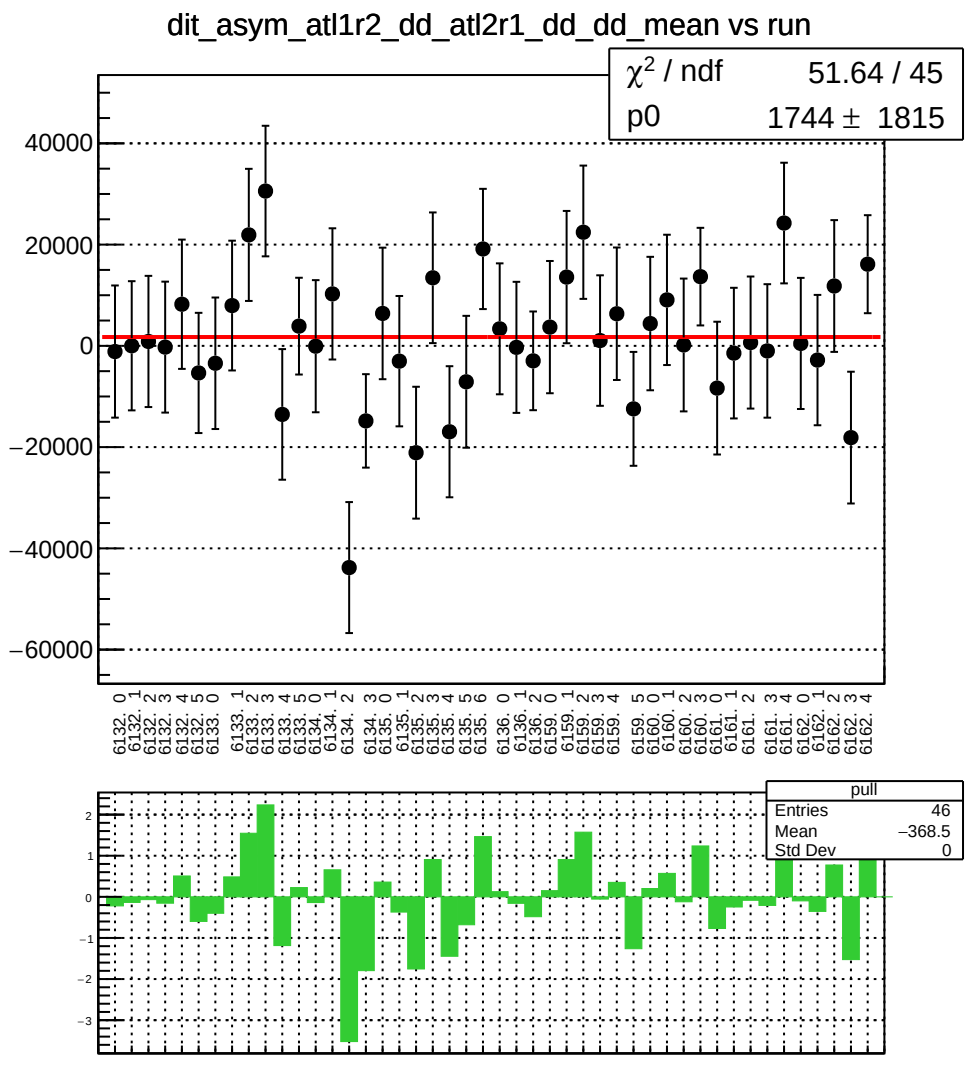
6162. 4


dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 51.64 / 45
p0 1744 ± 1815
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20000
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−20000
−40000
−60000
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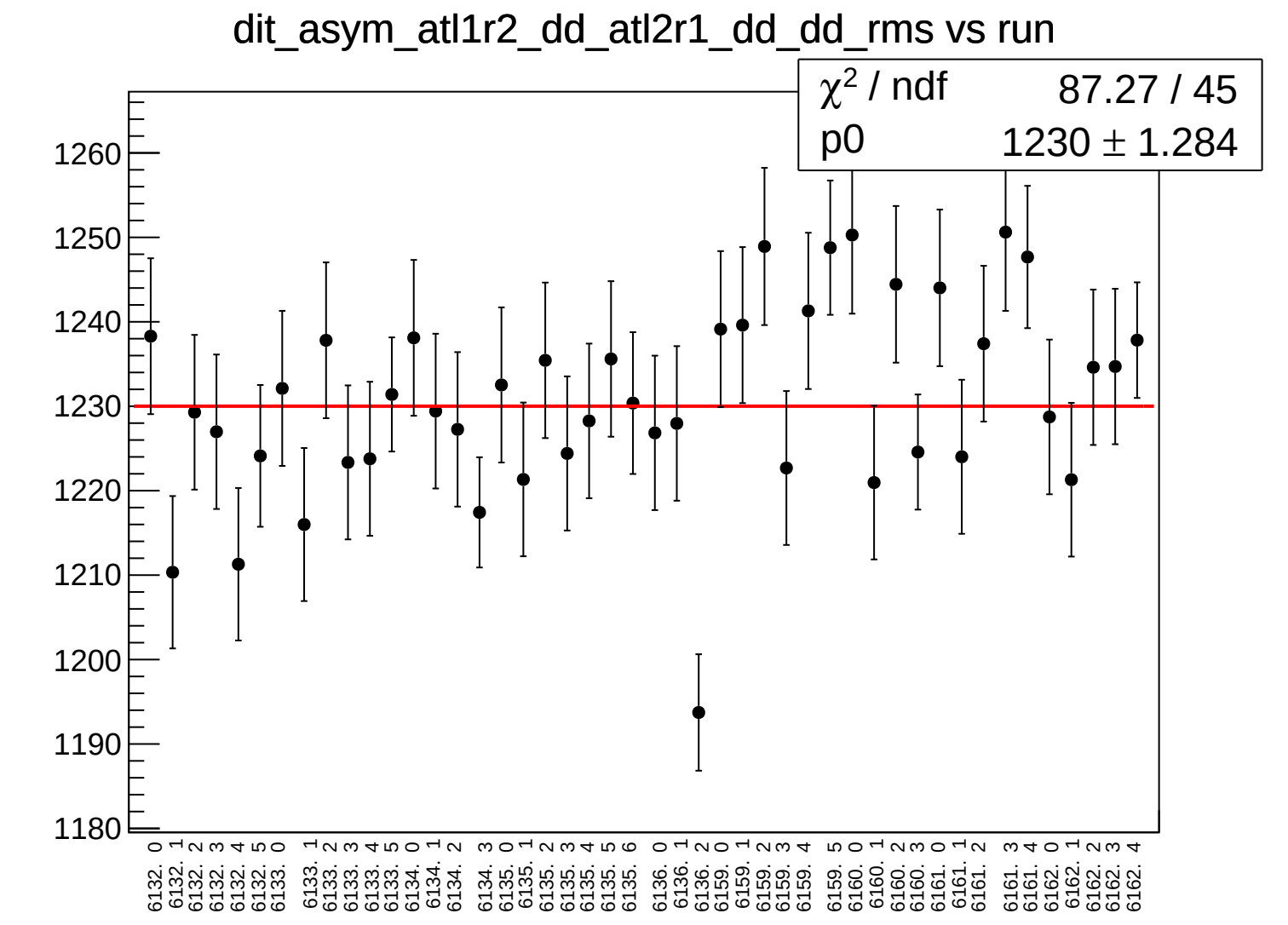
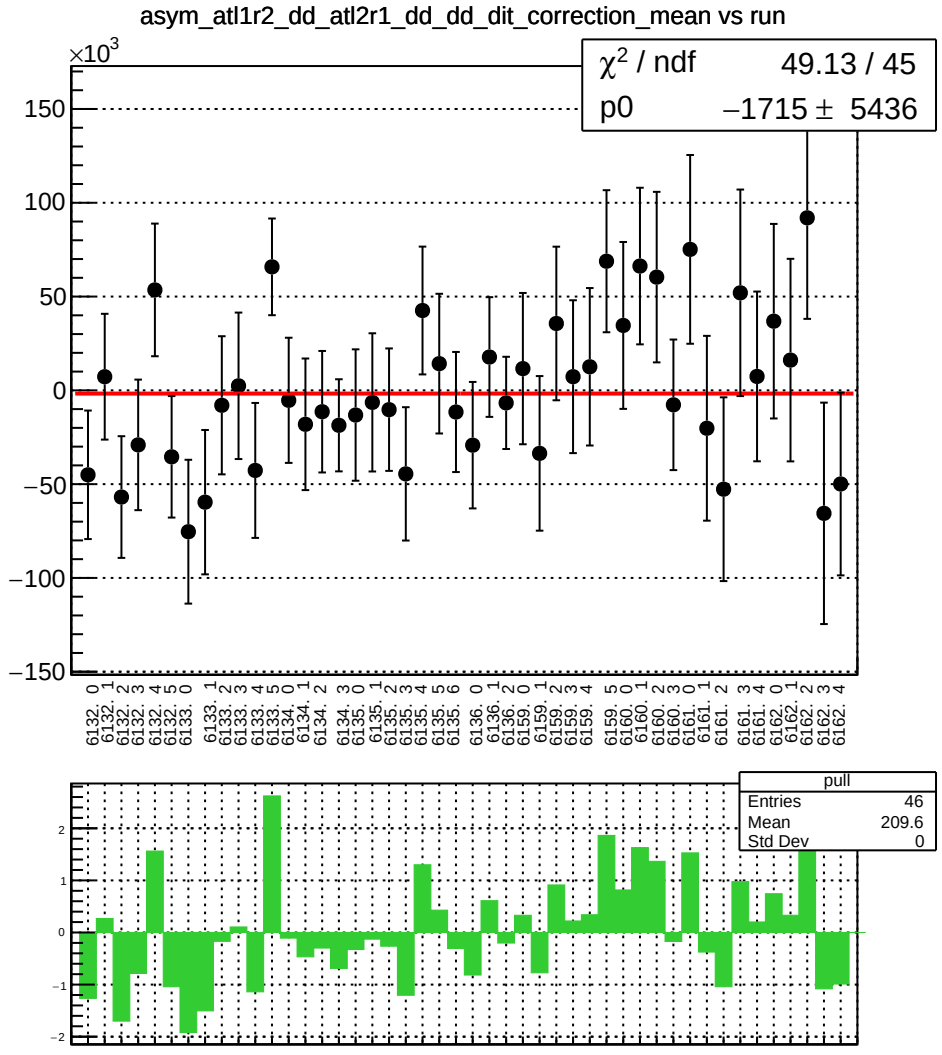
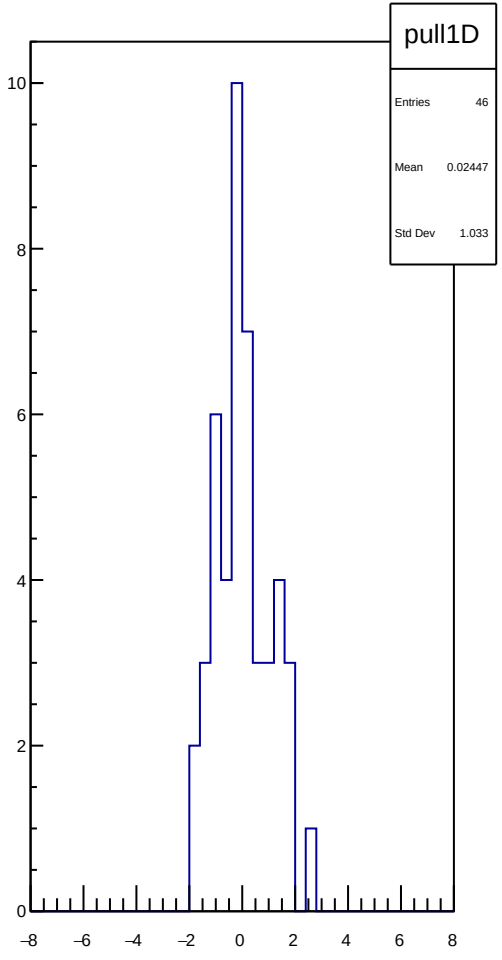
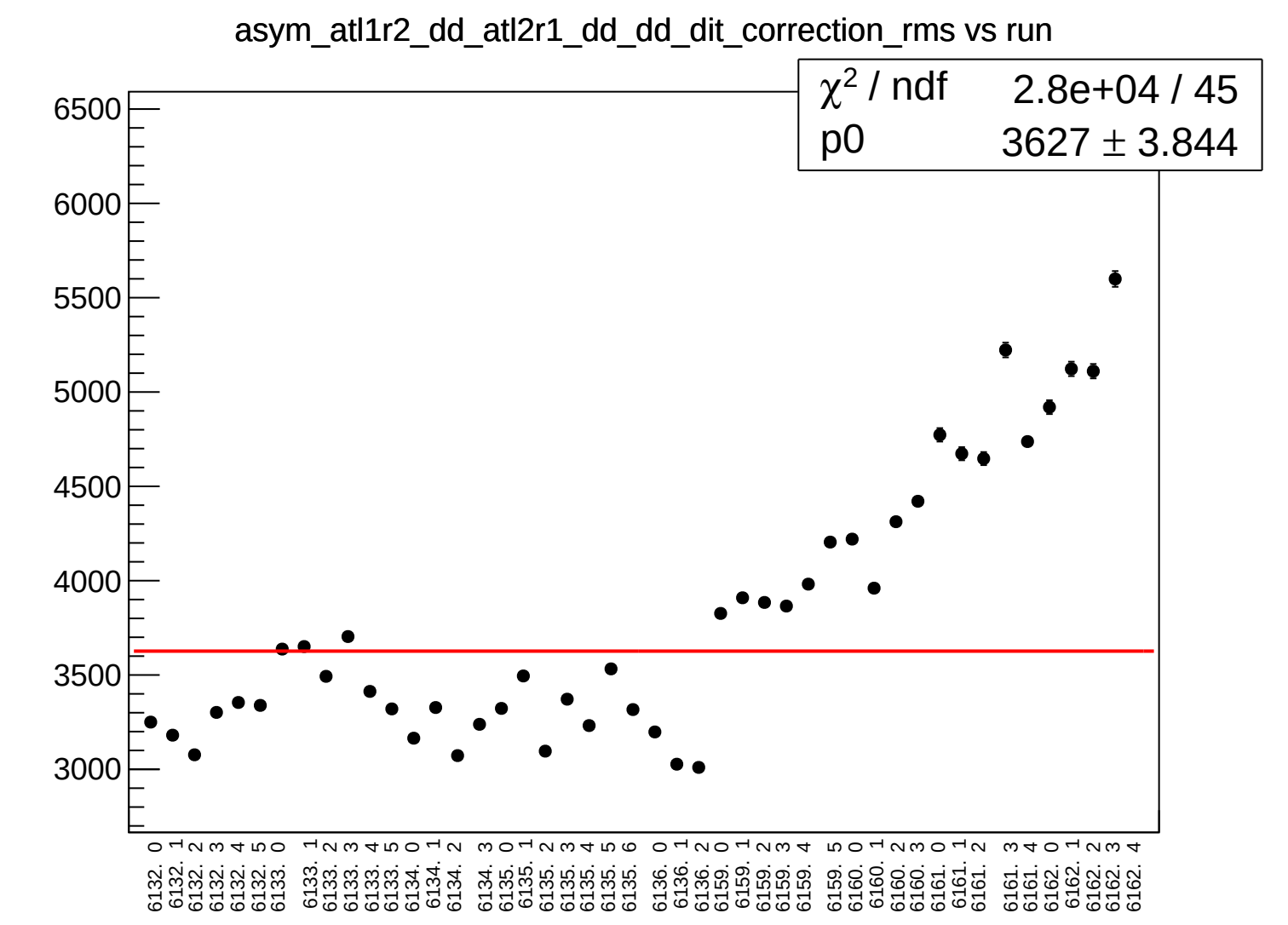
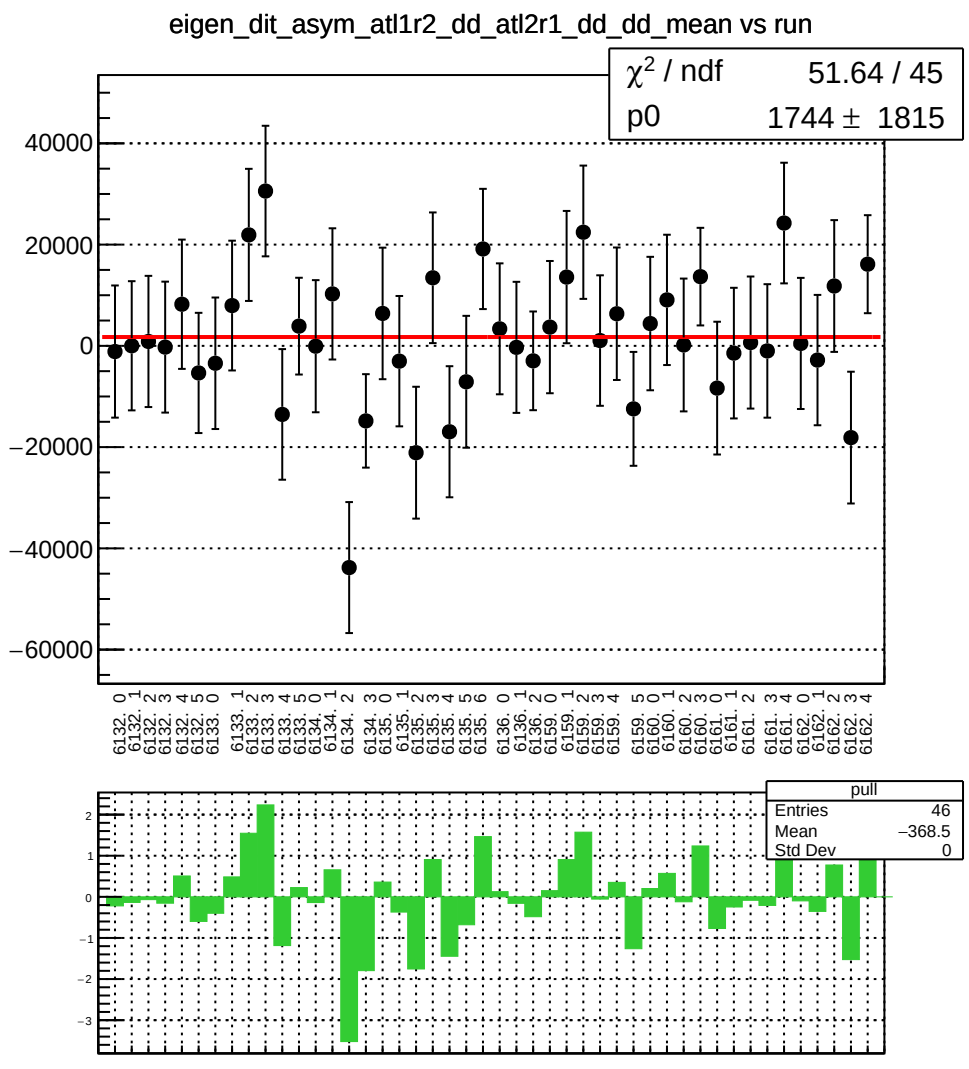
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −368.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.003693
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

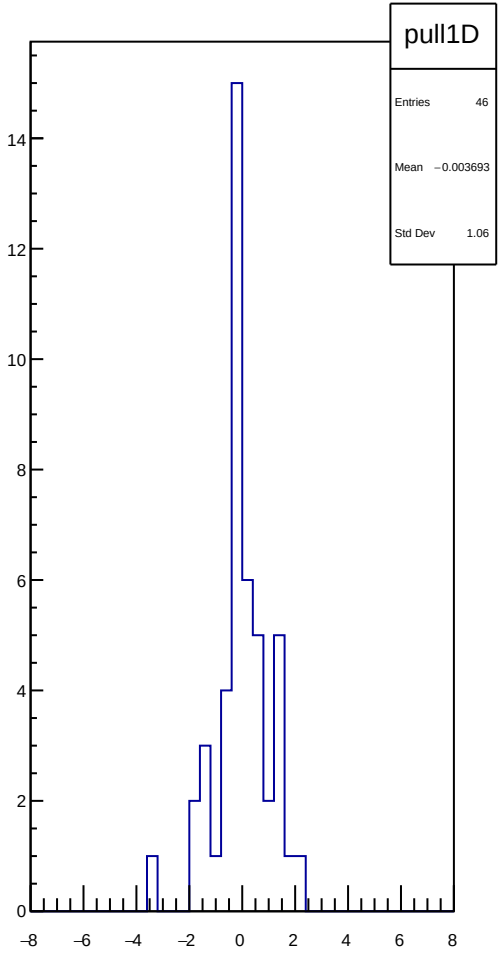

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 87.27 / 45
p0 1230 ± 1.284
1260
1250
1240
1230
1220
1210
1200
1190
1180
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

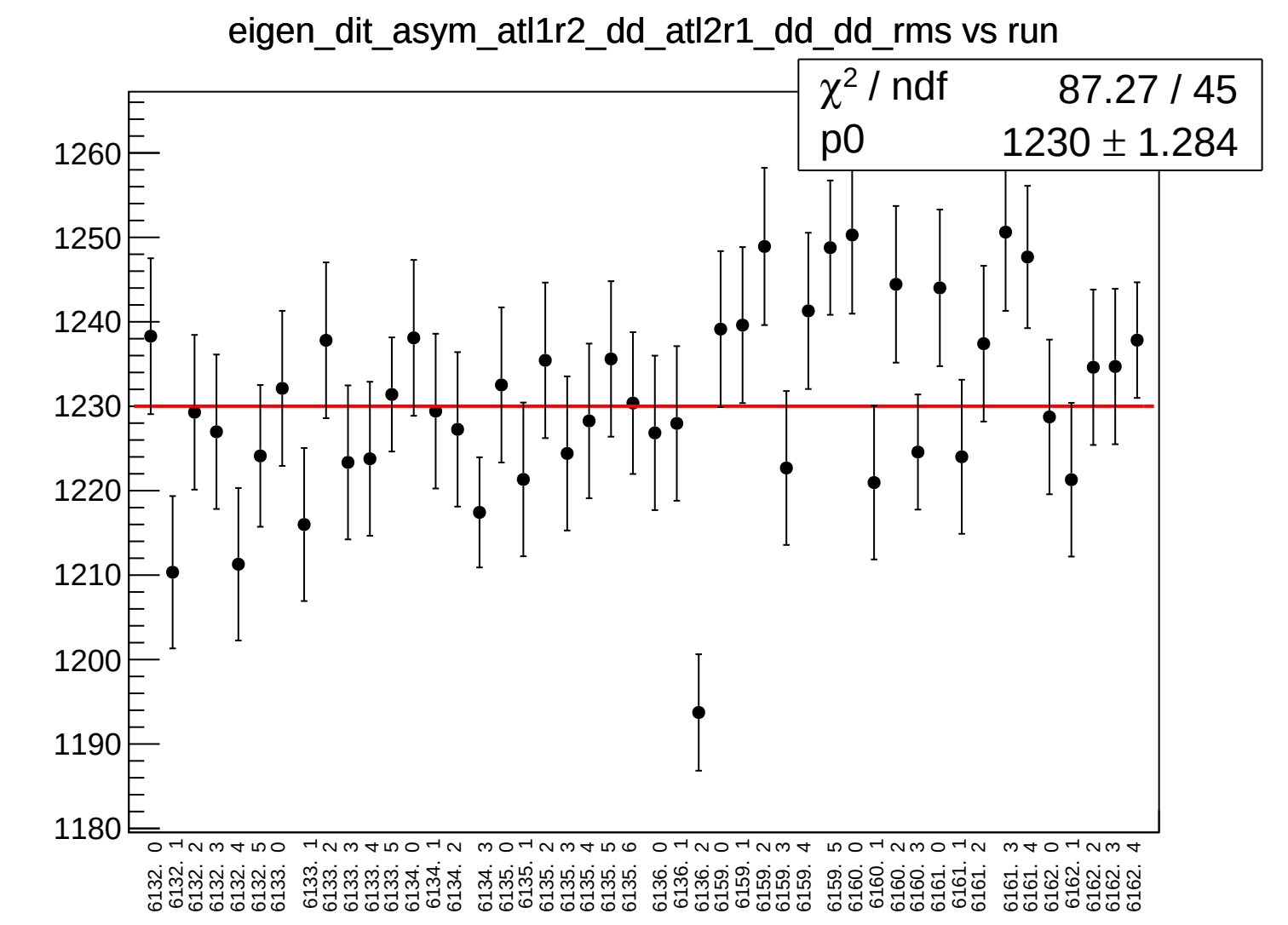

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 49.13 / 45
p0 −1715 ± 5436
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 209.6
Std Dev 0
2
1
0
−1
−2

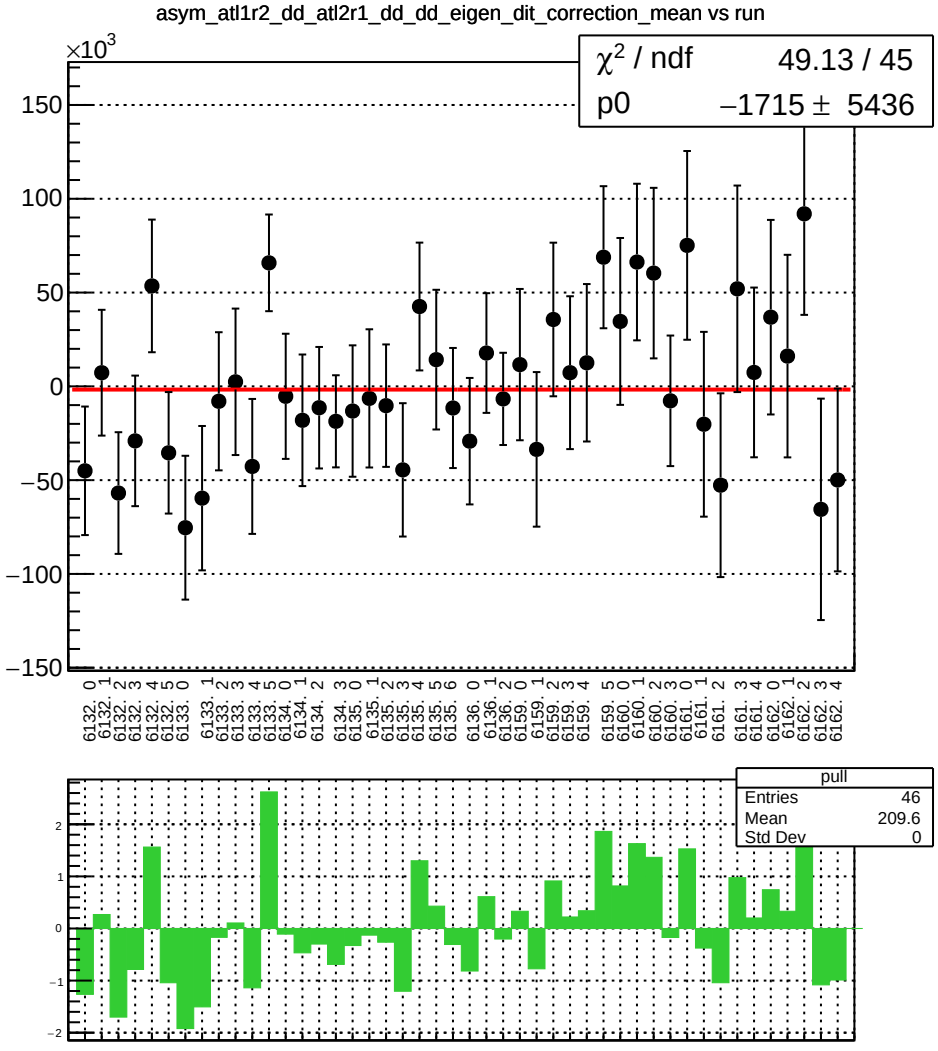

pull1D
Entries 46
Mean 0.02447
Std Dev 1.033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

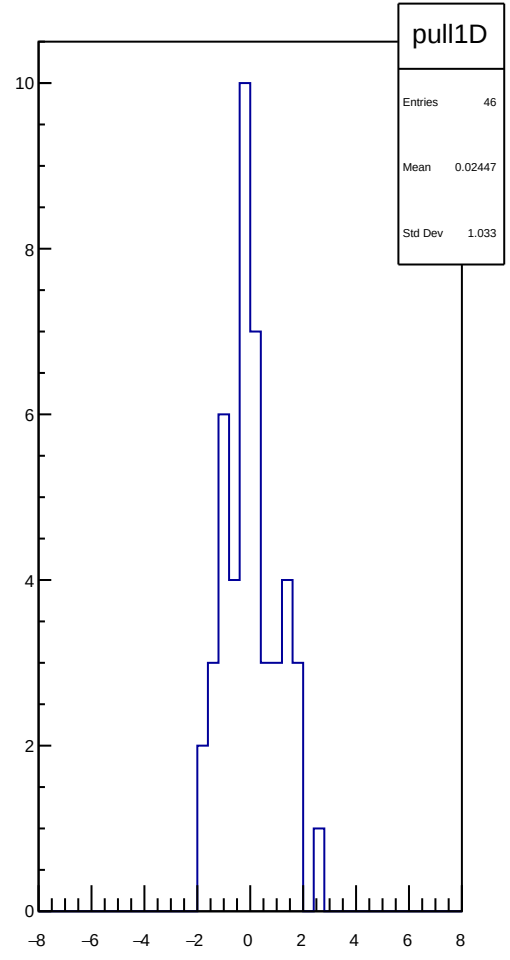

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 2.8e+04 / 45
p0 3627 ± 3.844
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

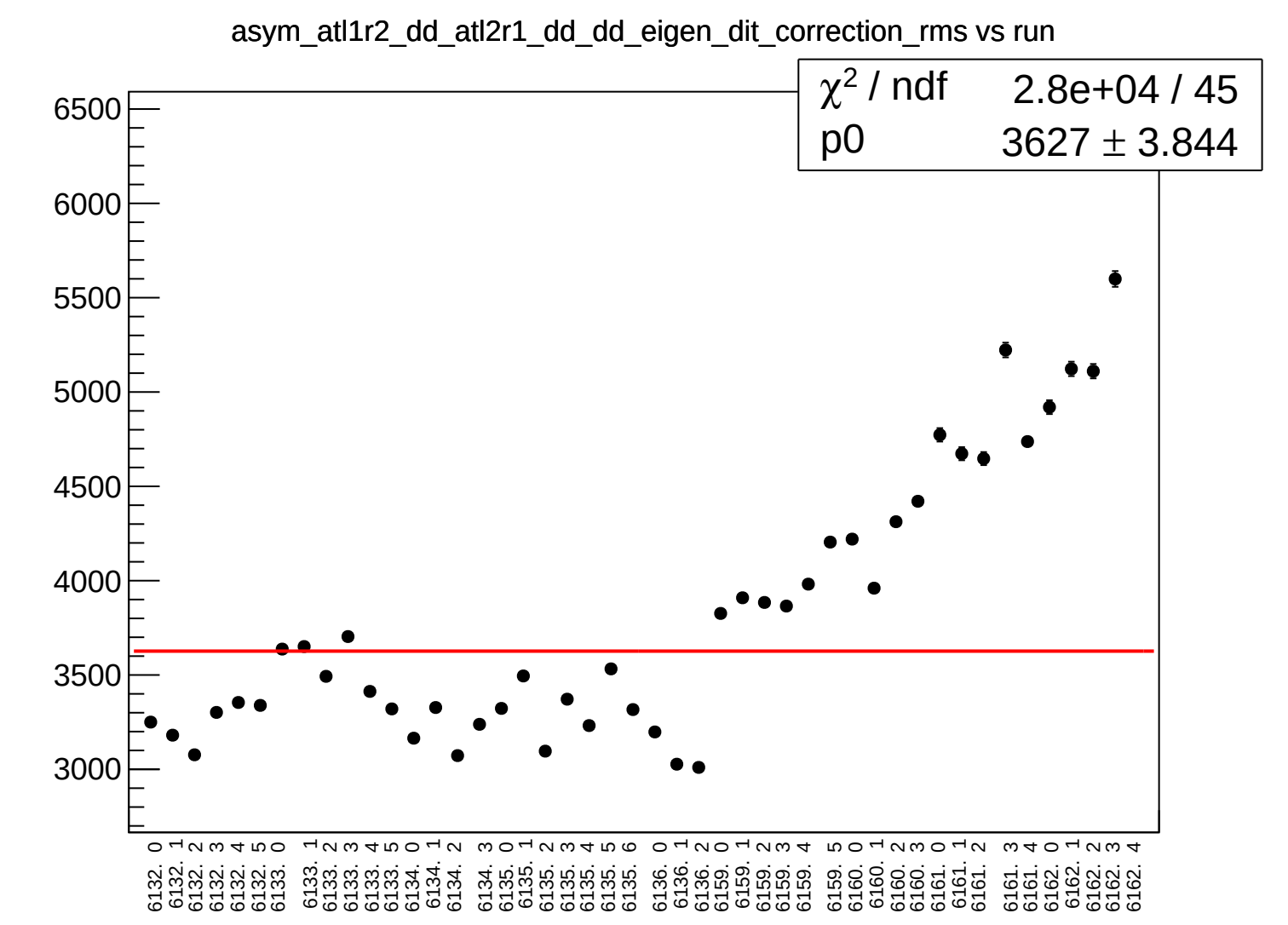

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 51.64 / 45
p0 1744 ± 1815
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −368.5
Std Dev 0
2
1
0
−1
−2
−3

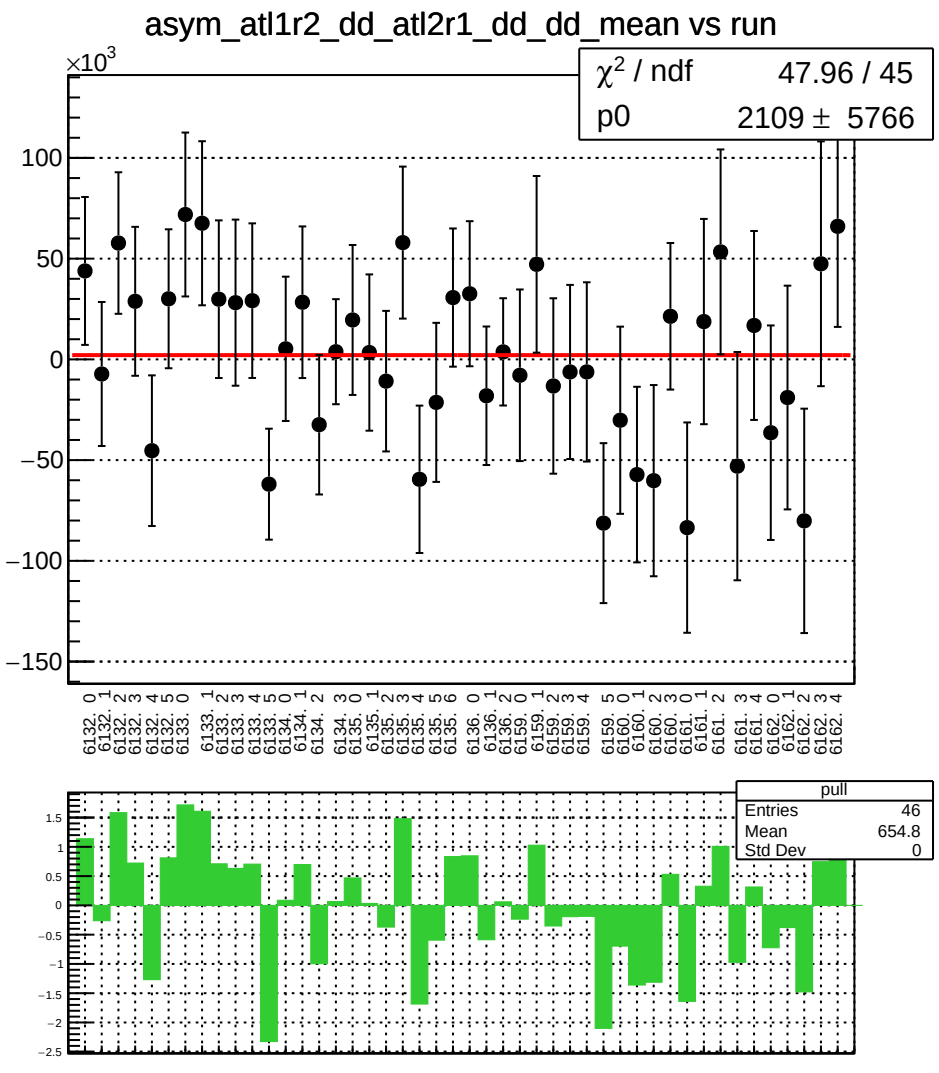

pull1D
Entries 46
Mean −0.003693
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

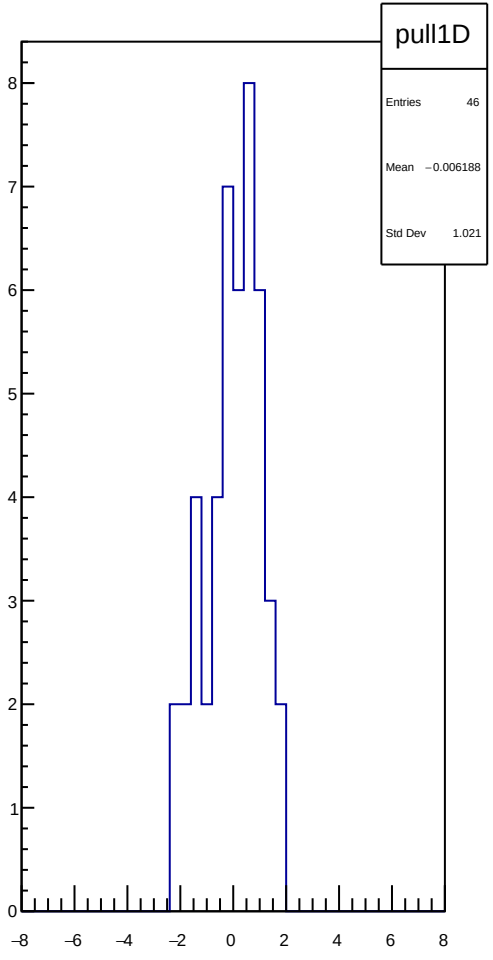

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 87.27 / 45
p0 1230 ± 1.284
1260
1250
1240
1230
1220
1210
1200
1190
1180
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

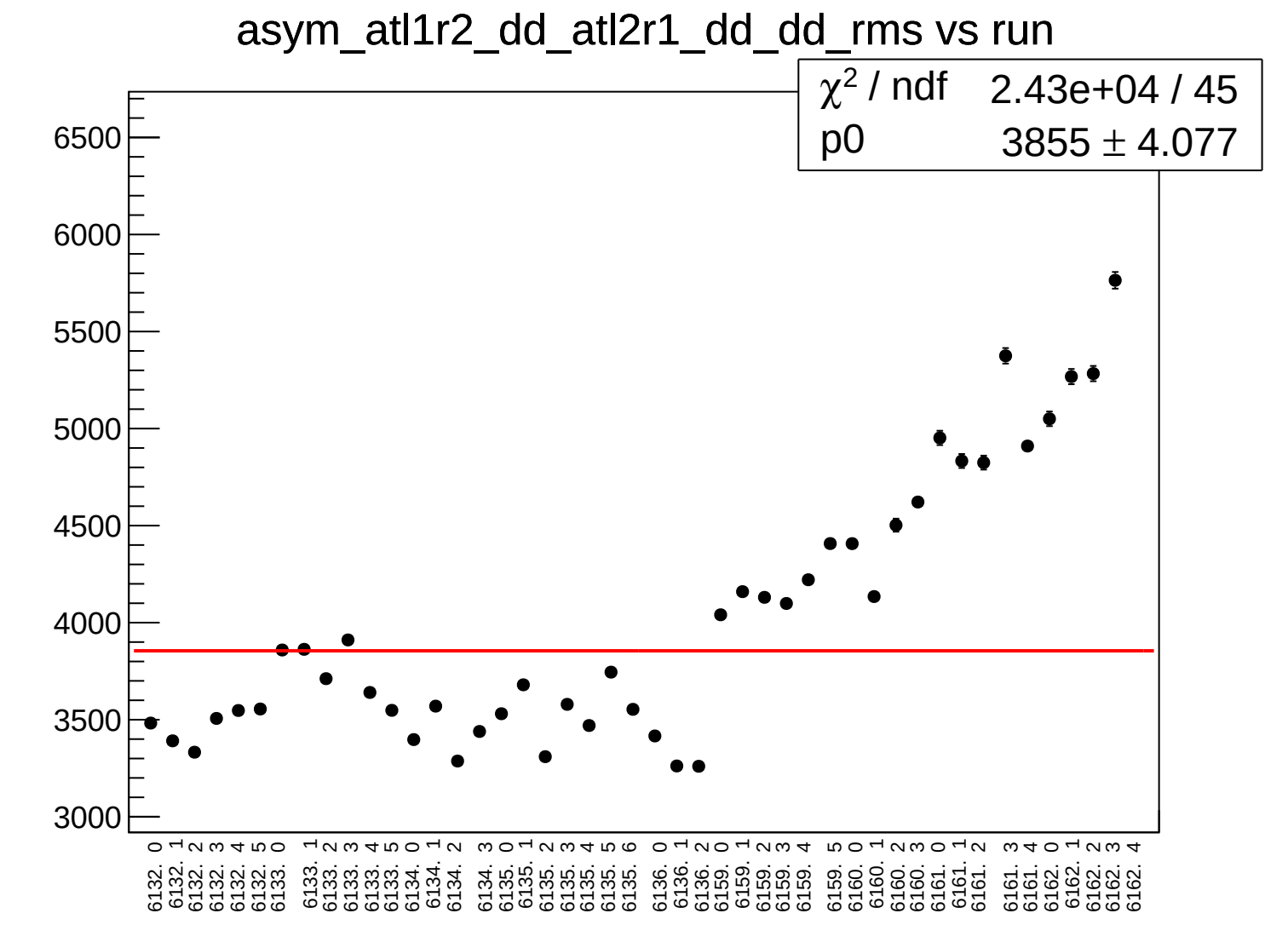

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 49.13 / 45
p0 −1715 ± 5436
pull
Entries 46
Mean 209.6
Std Dev 0

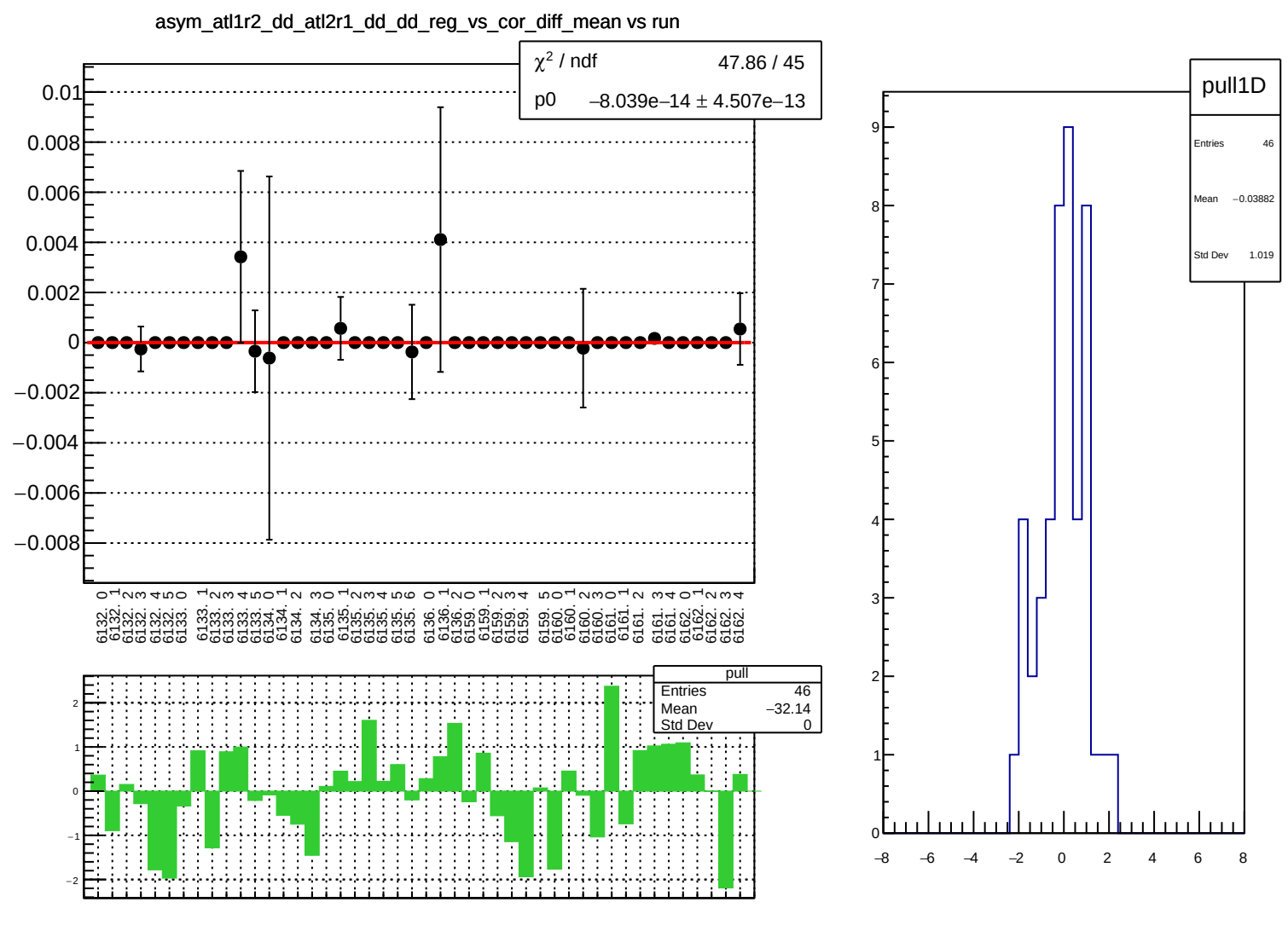

pull1D
Entries 46
Mean 0.02447
Std Dev 1.033

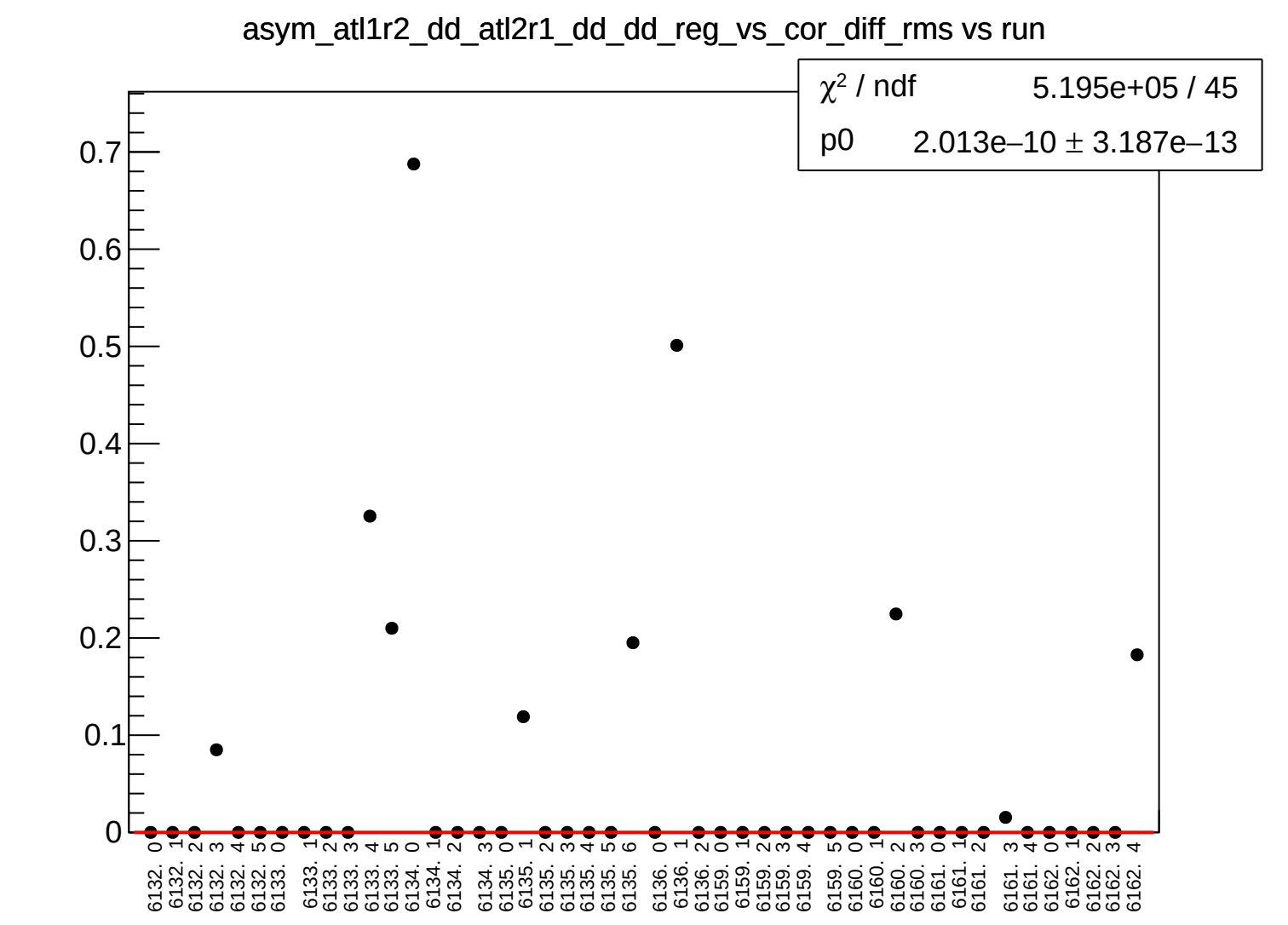

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.8e+04 / 45
p0 3627 ± 3.844
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

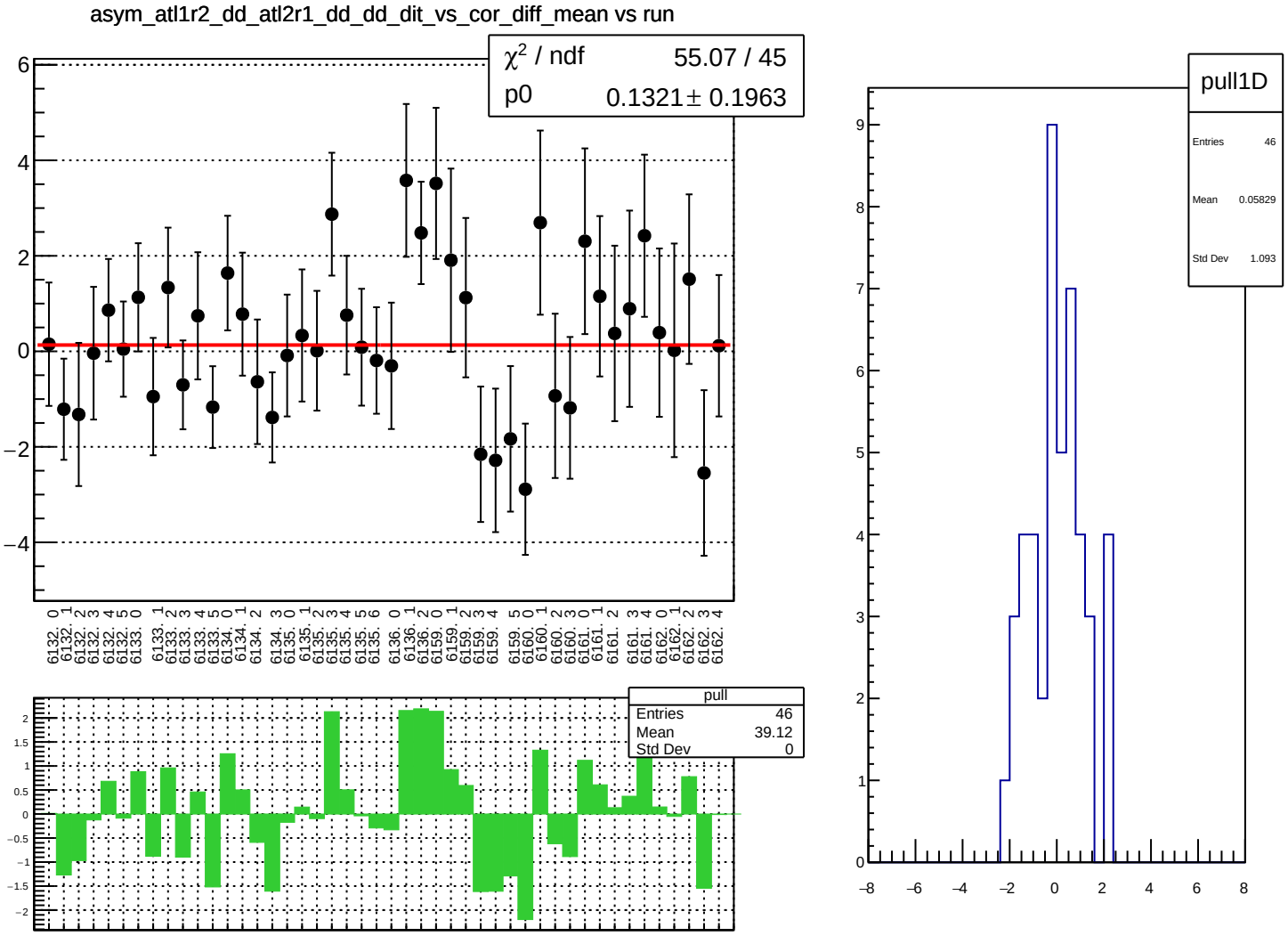

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 47.96 / 45
p0 2109 ± 5766
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 654.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

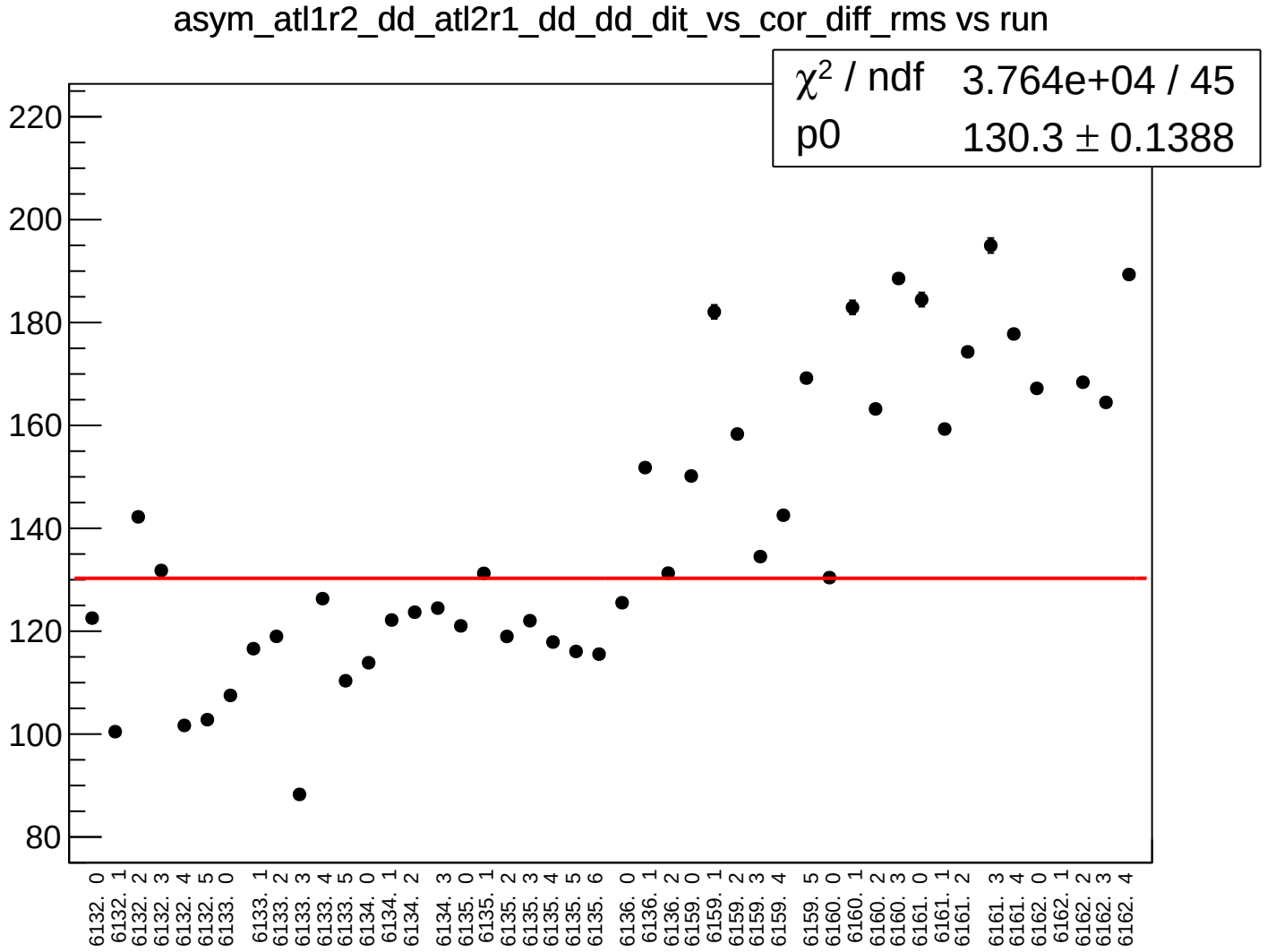

pull1D
Entries 46
Mean −0.006188
Std Dev 1.021
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 2.43e+04 / 45
p0 3855 ± 4.077
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 47.86 / 45
p0 −8.039e−14 ± 4.507e−13
pull
Entries 46
Mean −32.14
Std Dev 0
pull1D
Entries 46
Mean −0.03882
Std Dev 1.019


asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.195e+05 / 45
p0 2.013e−10 ± 3.187e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 55.07 / 45
p0 0.1321 ± 0.1963
pull
Entries 46
Mean 39.12
Std Dev 0
pull1D
Entries 46
Mean 0.05829
Std Dev 1.093


asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.764e+04 / 45
p0 130.3 ± 0.1388
220
200
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
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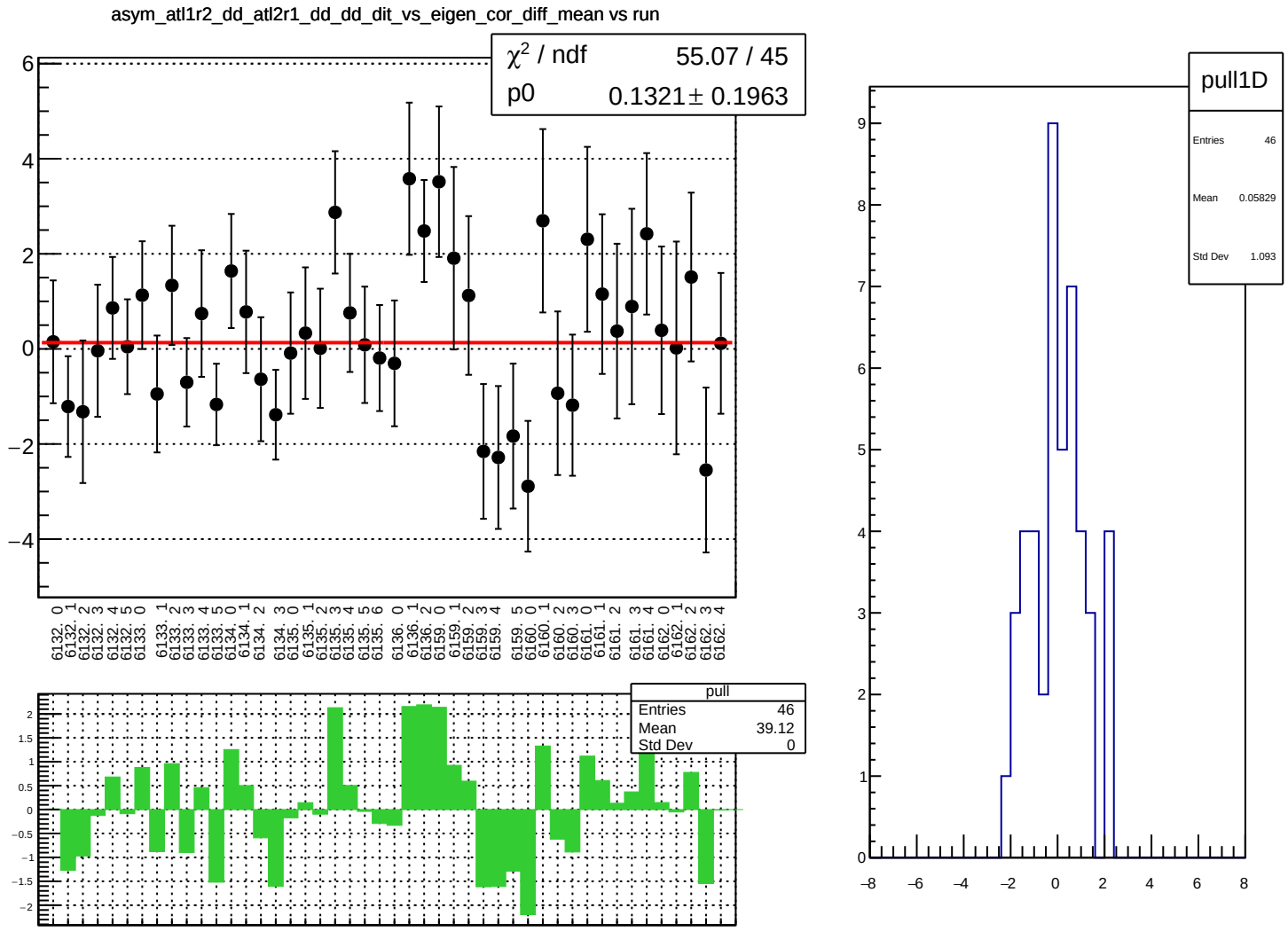
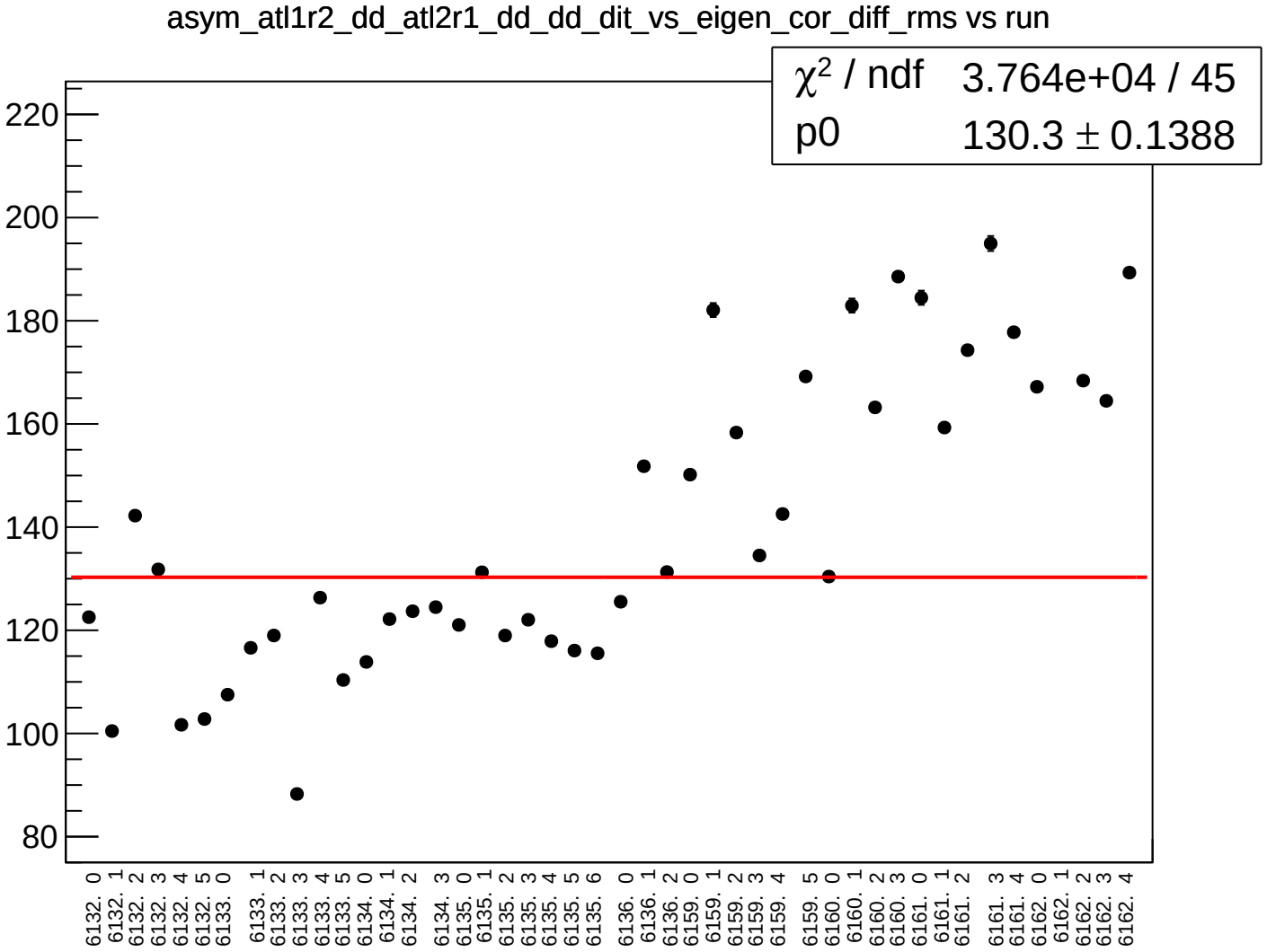
6162. 4


asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 55.07 / 45
p0 0.1321 ± 0.1963
pull
Entries 46
Mean 39.12
Std Dev 0
pull1D
Entries 46
Mean 0.05829
Std Dev 1.093


asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.764e+04 / 45
p0 130.3 ± 0.1388
220
200
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
6161. 3
6161. 4
6162. 0
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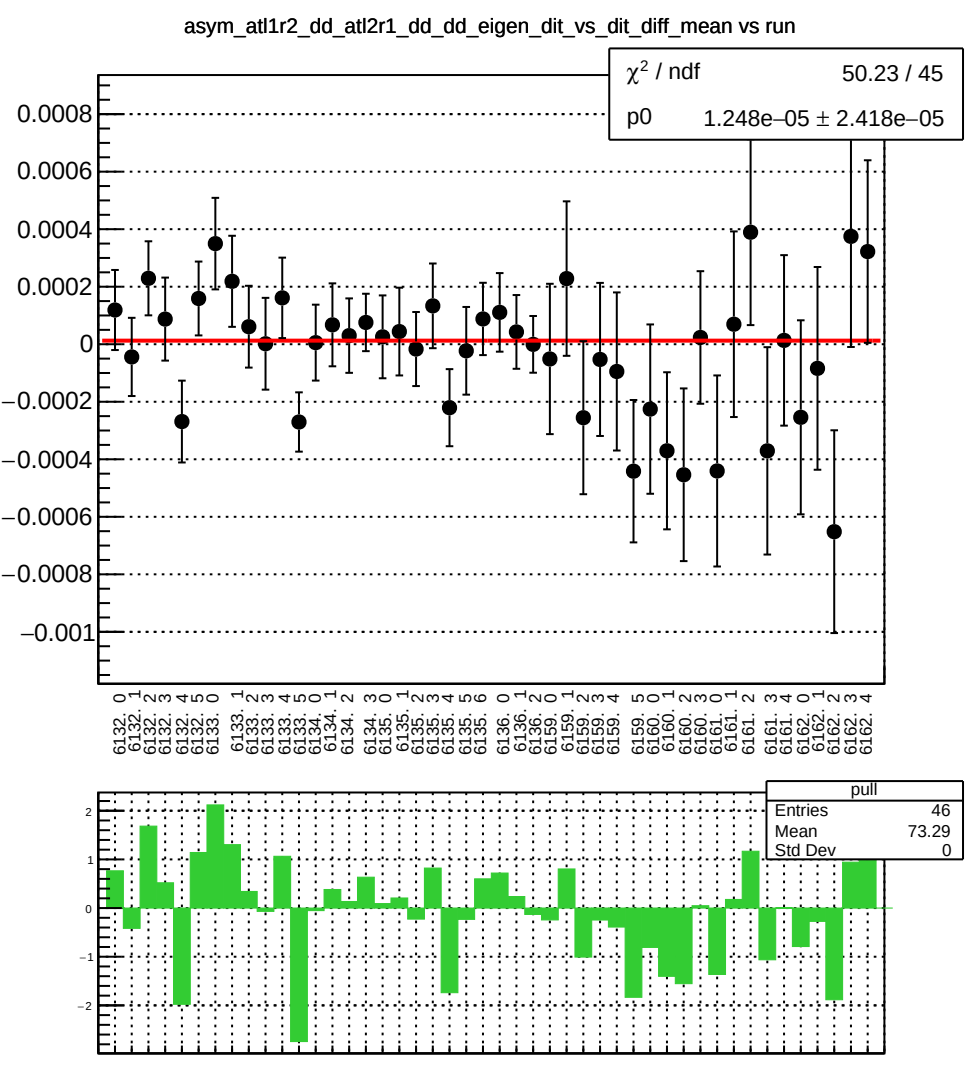
6162. 2
6162. 3
6162. 4


asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 50.23 / 45
p0 1.248e−05 ± 2.418e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6134. 2
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6135. 0
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6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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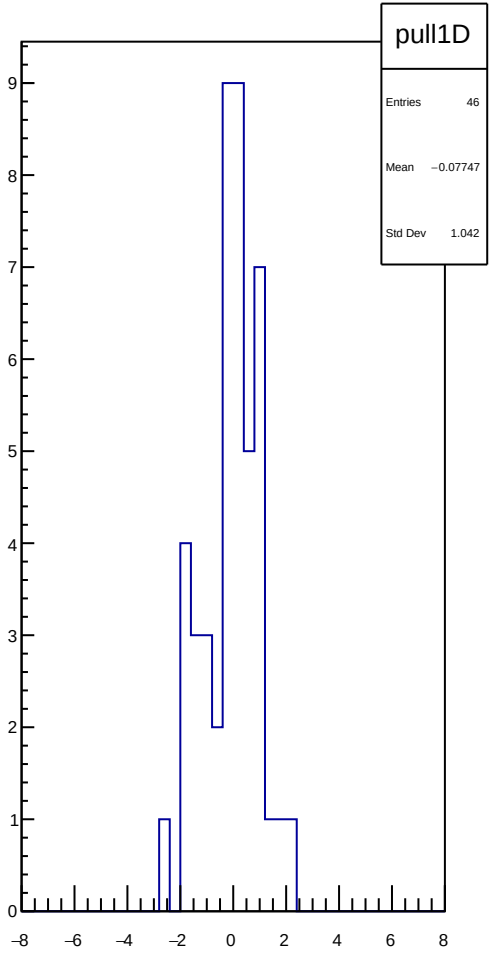
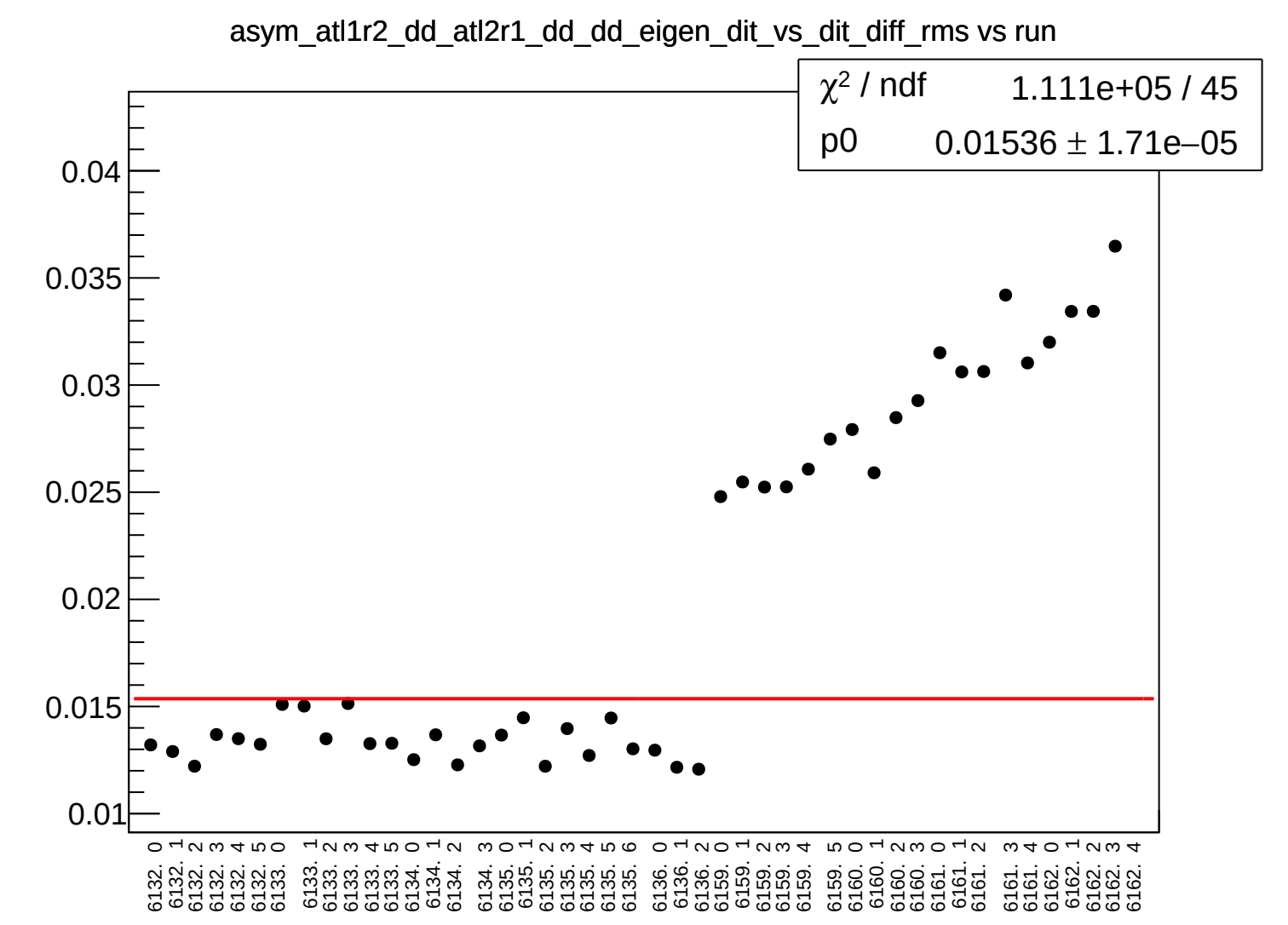
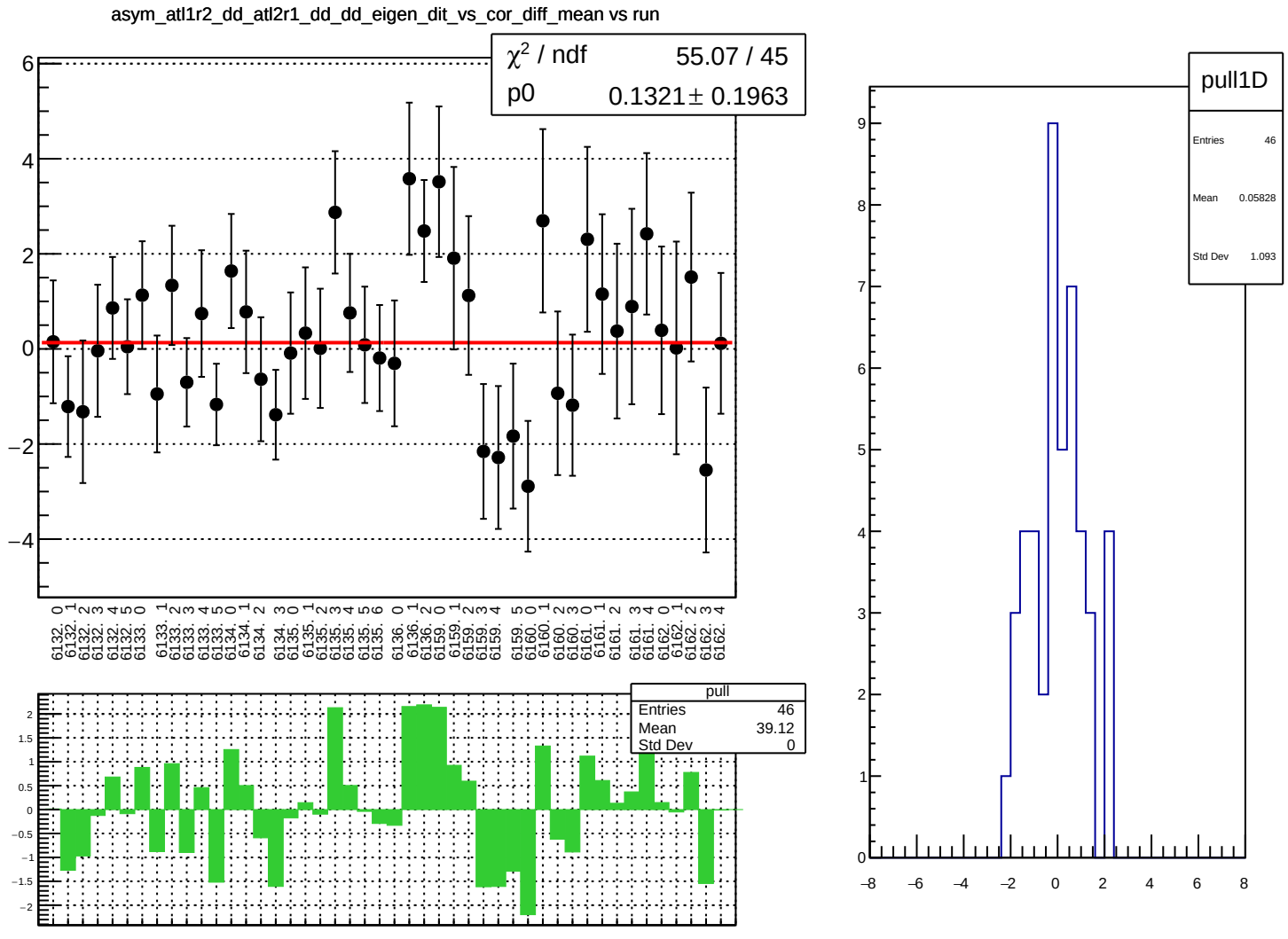
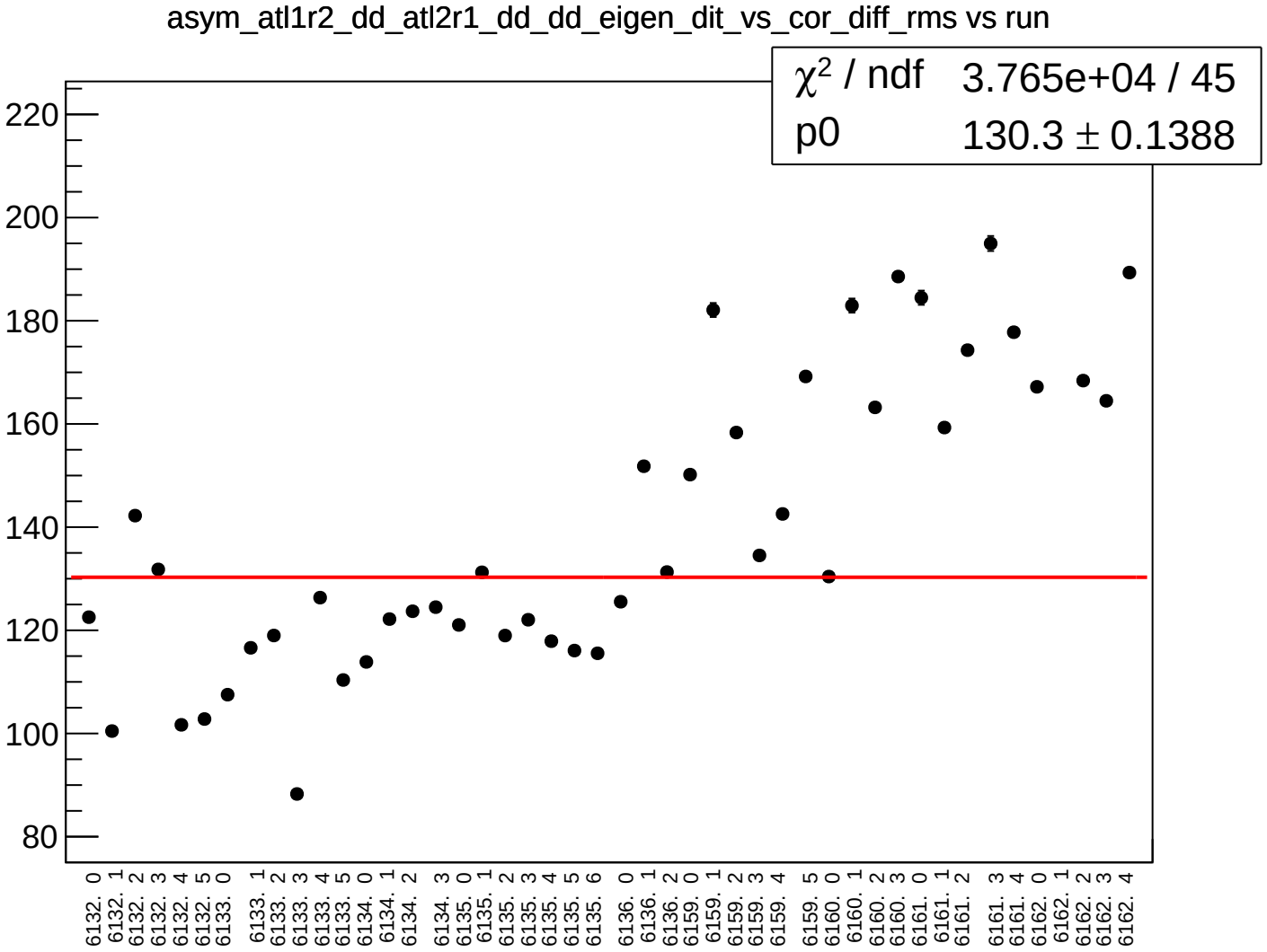
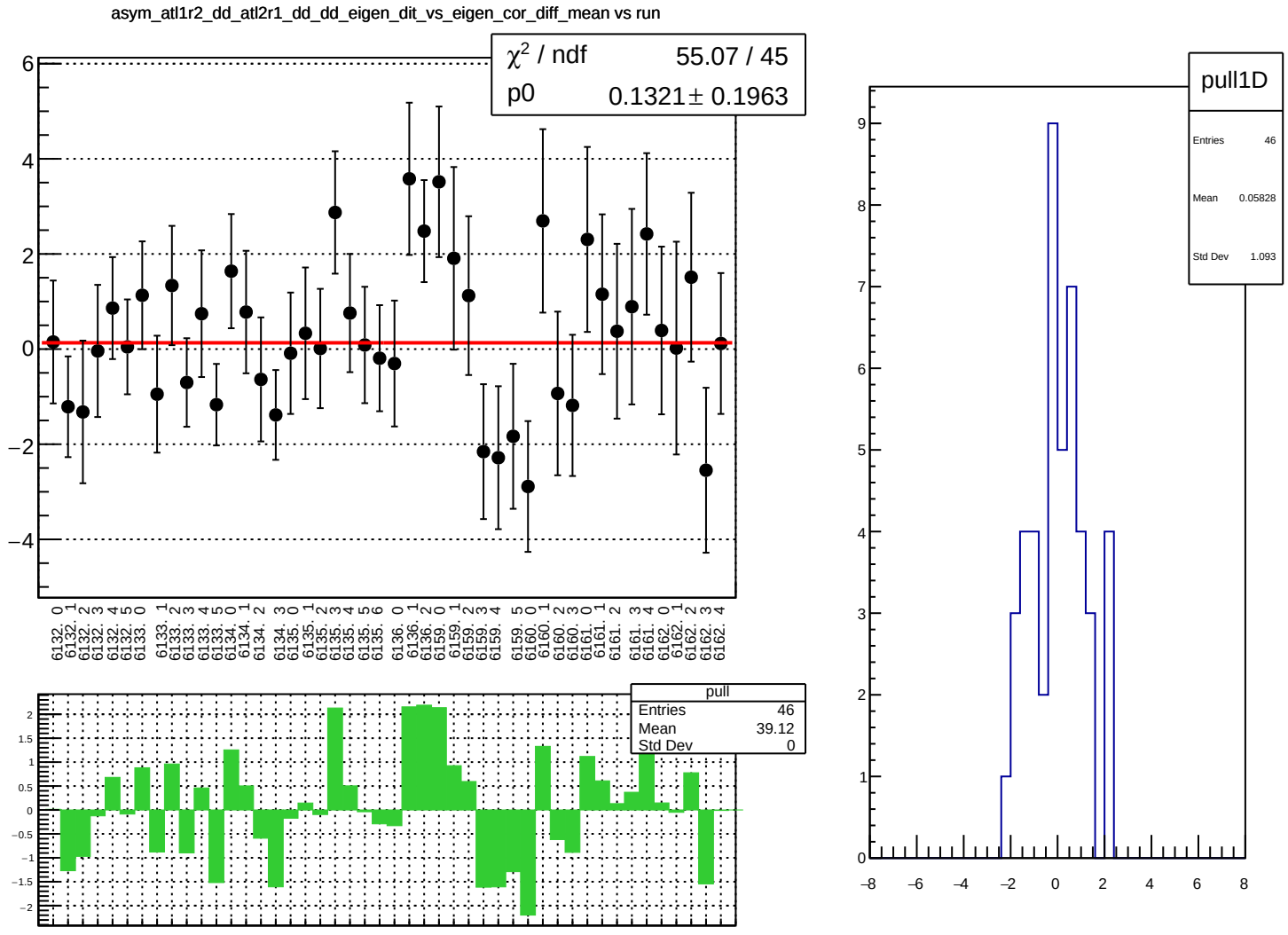
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 73.29
Std Dev 0
2
1
0
−1
−2

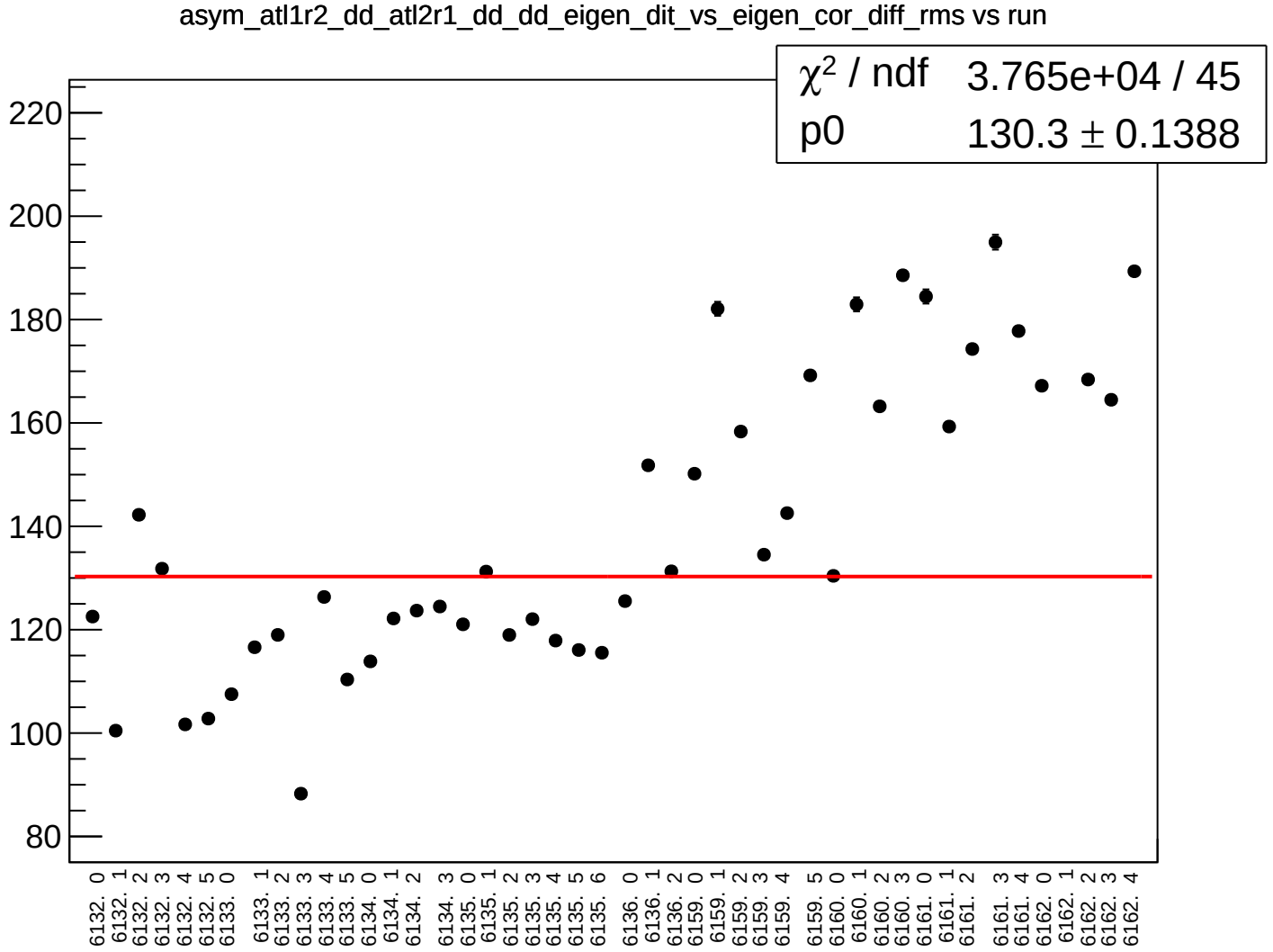

pull1D
Entries 46
Mean −0.07747
Std Dev 1.042
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

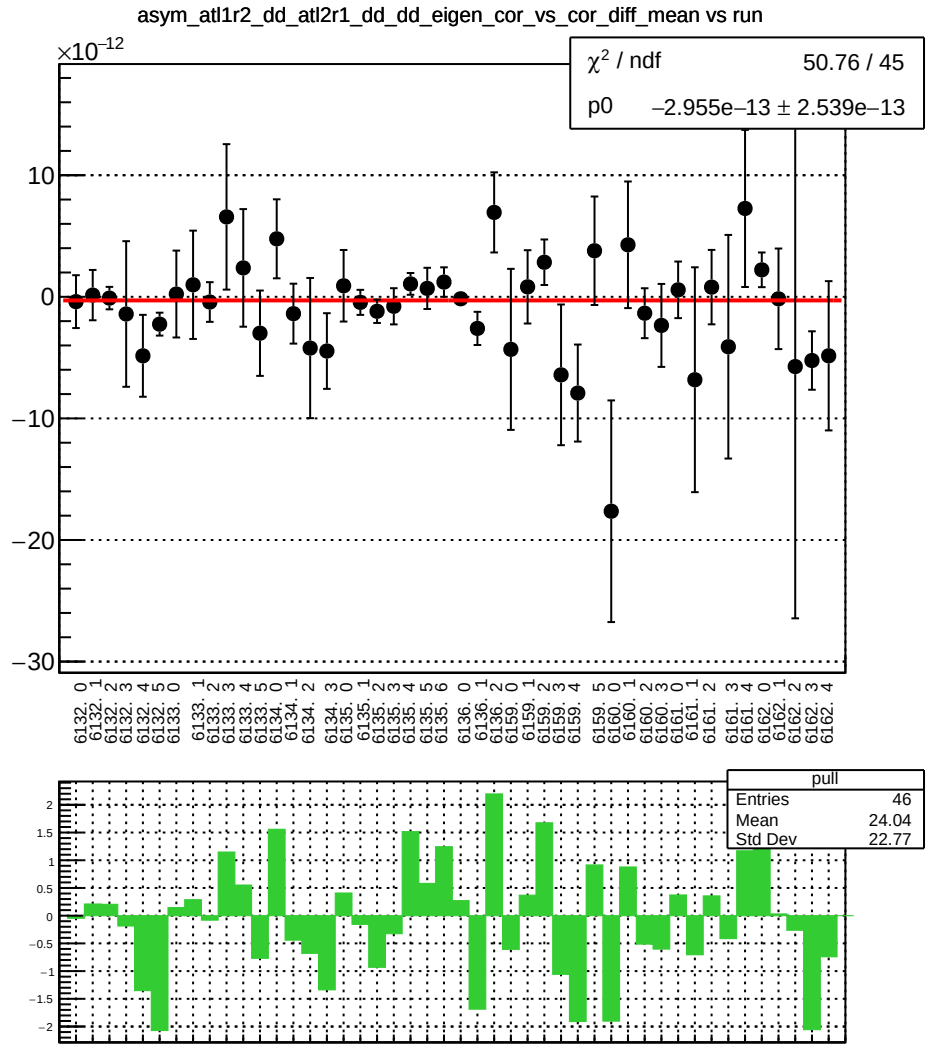

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.111e+05 / 45
p0 0.01536 ± 1.71e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

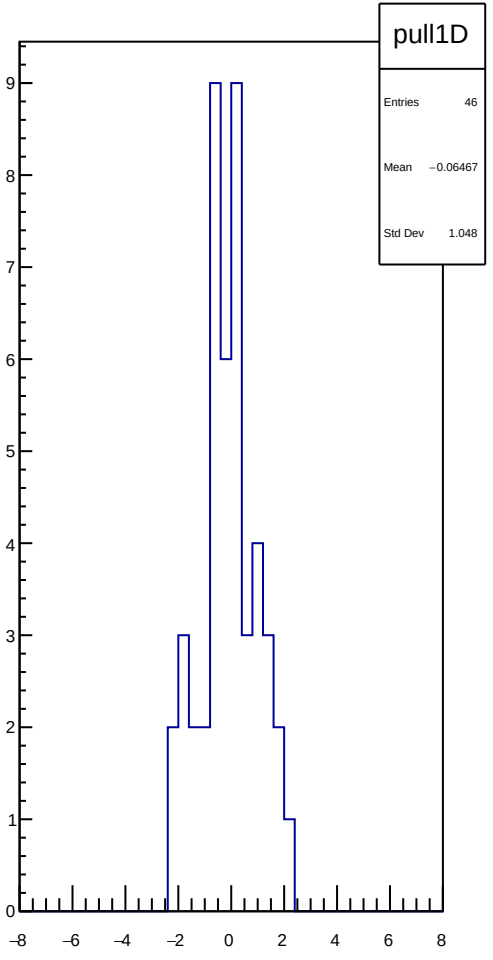

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 55.07 / 45
p0 0.1321 ± 0.1963
pull
Entries 46
Mean 39.12
Std Dev 0
pull1D
Entries 46
Mean 0.05828
Std Dev 1.093

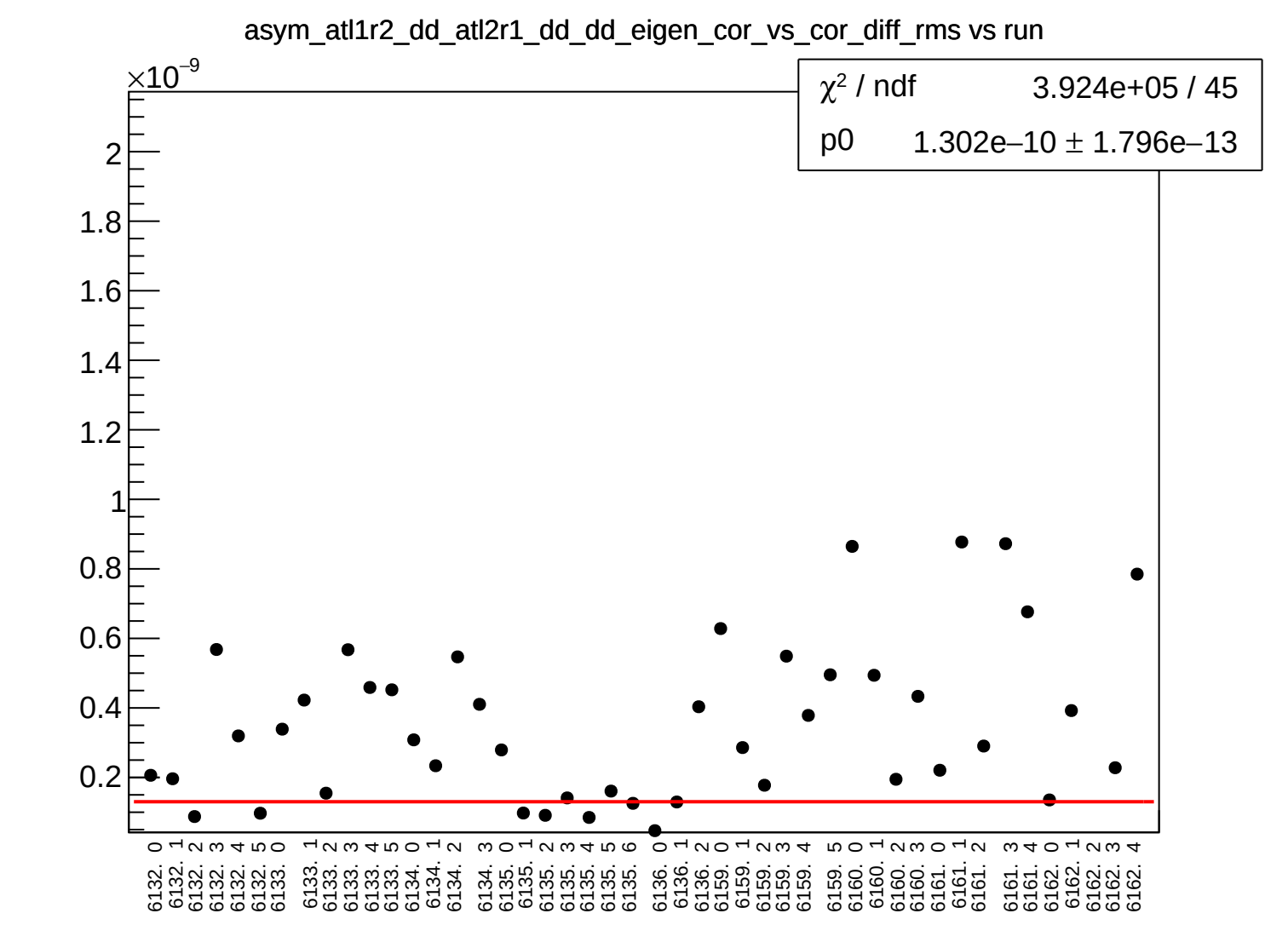

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.765e+04 / 45
p0 130.3 ± 0.1388
220
200
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

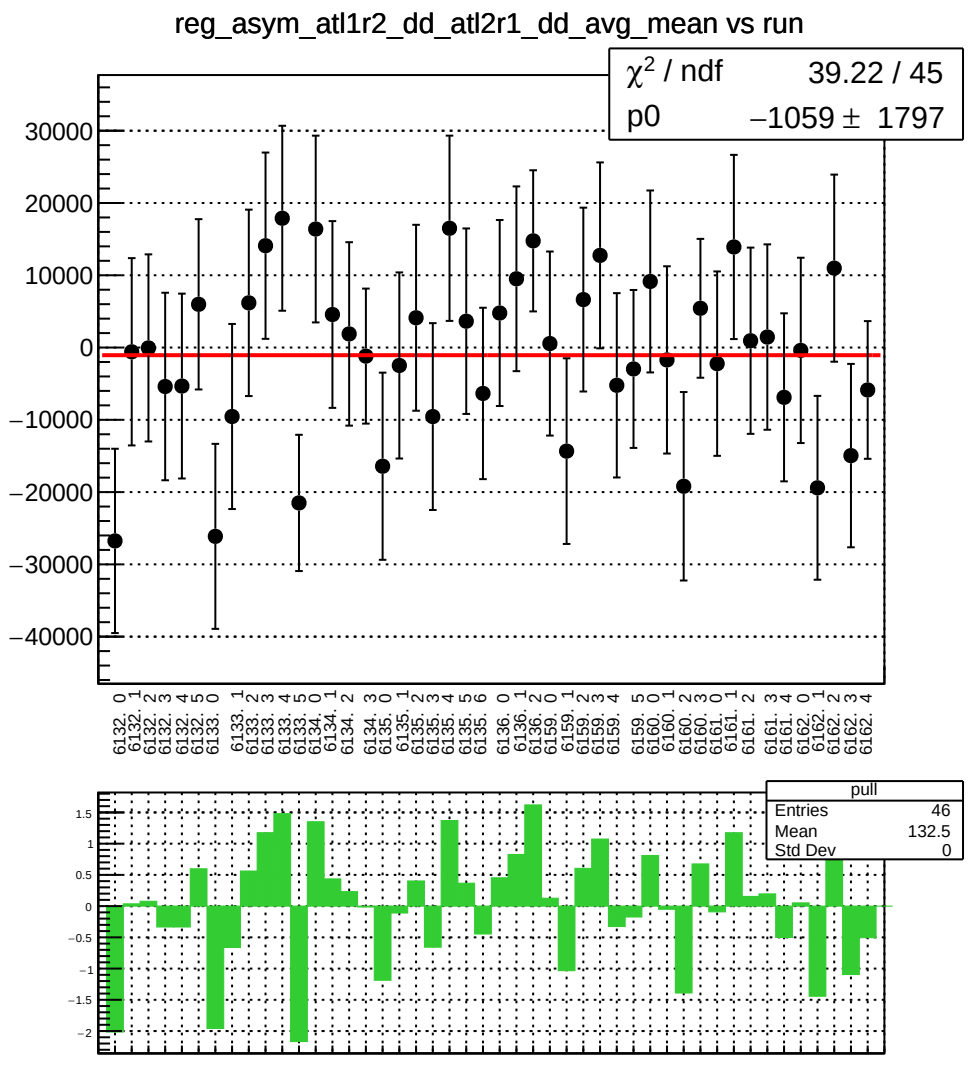

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 55.07 / 45
p0 0.1321 ± 0.1963
pull
Entries 46
Mean 39.12
Std Dev 0
pull1D
Entries 46
Mean 0.05828
Std Dev 1.093

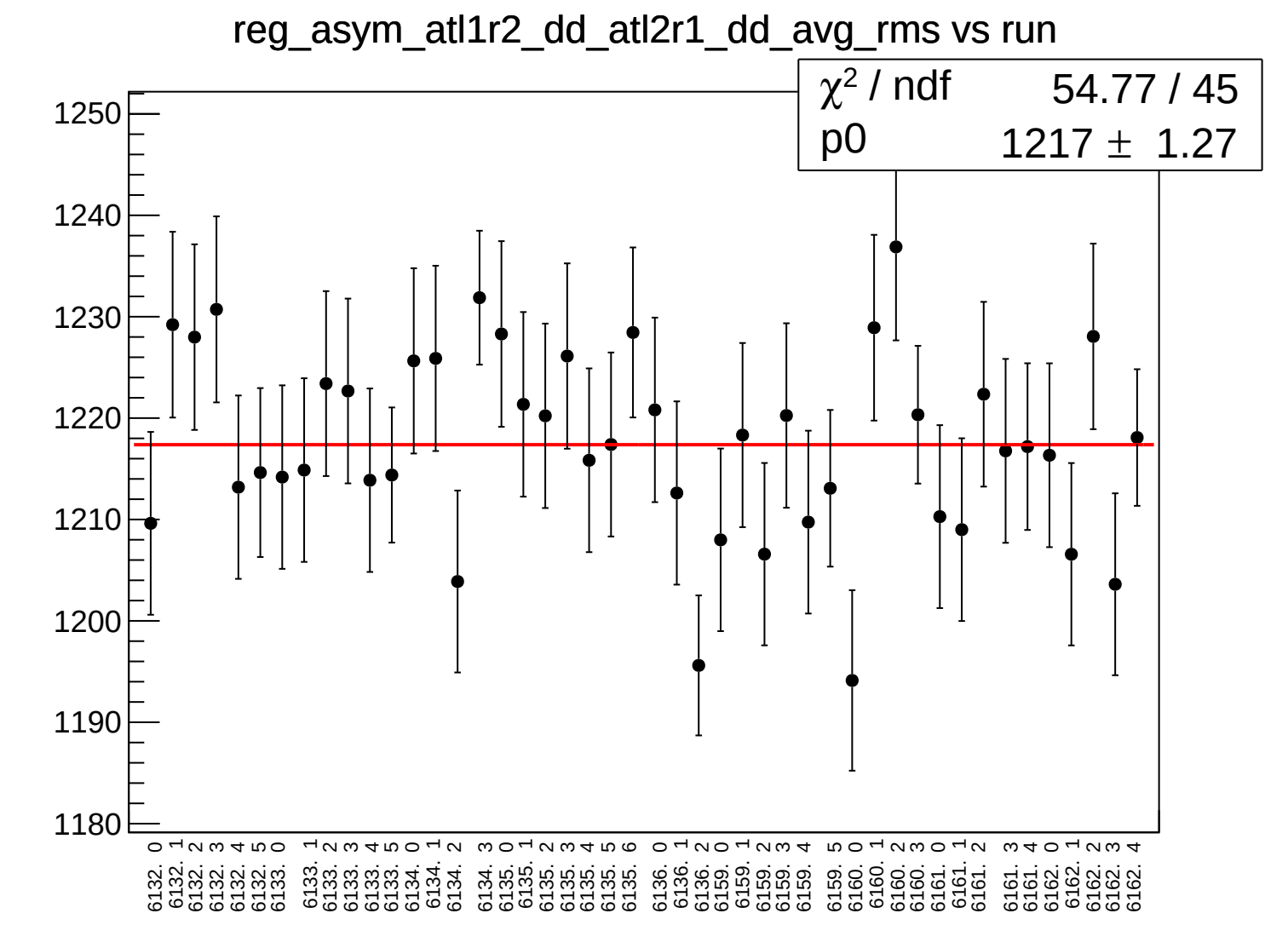

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.765e+04 / 45
p0 130.3 ± 0.1388
220
200
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

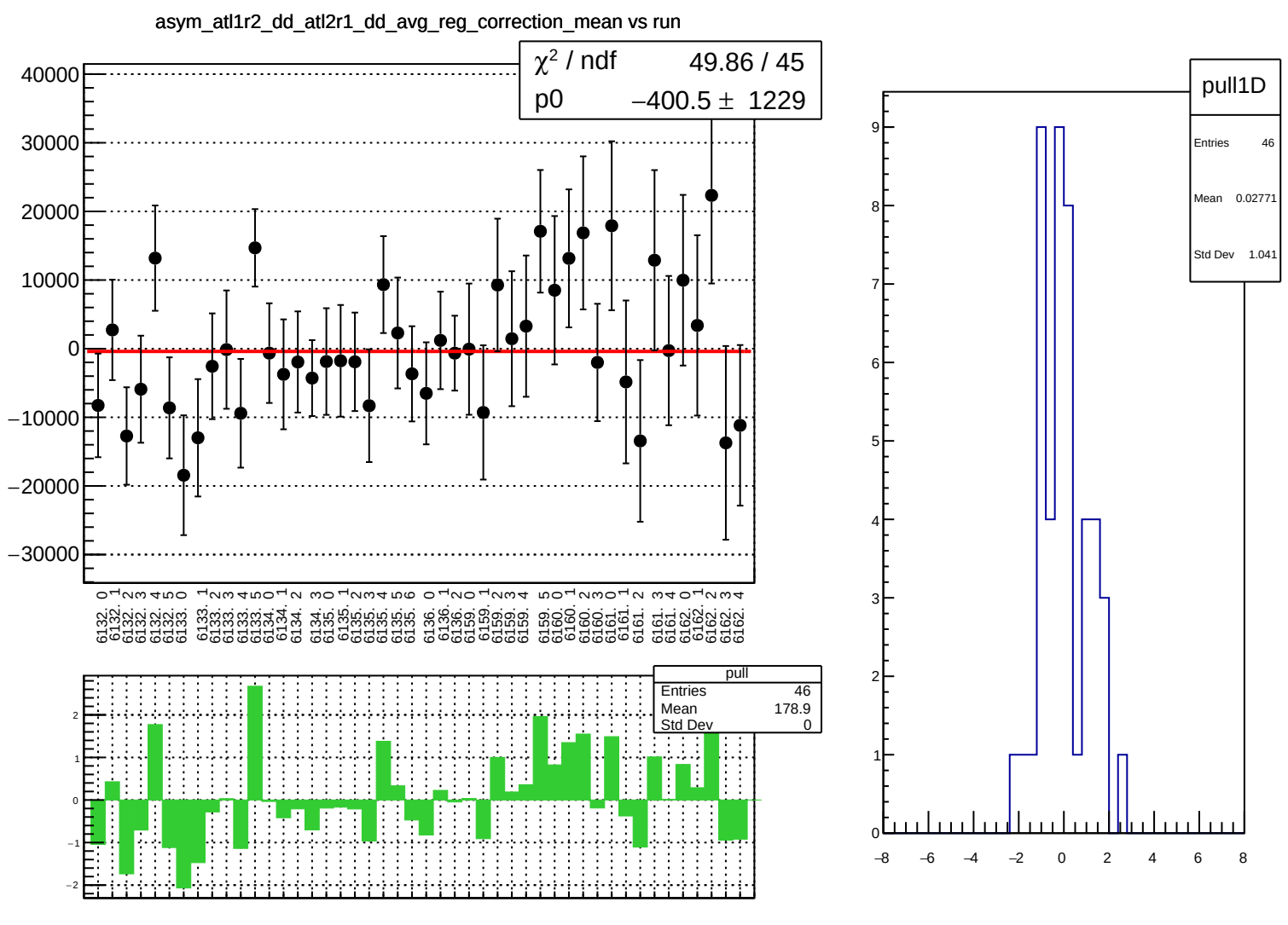

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 50.76 / 45
p0 −2.955e−13 ± 2.539e−13
10
0
−10
−20
−30
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 24.04
Std Dev 22.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

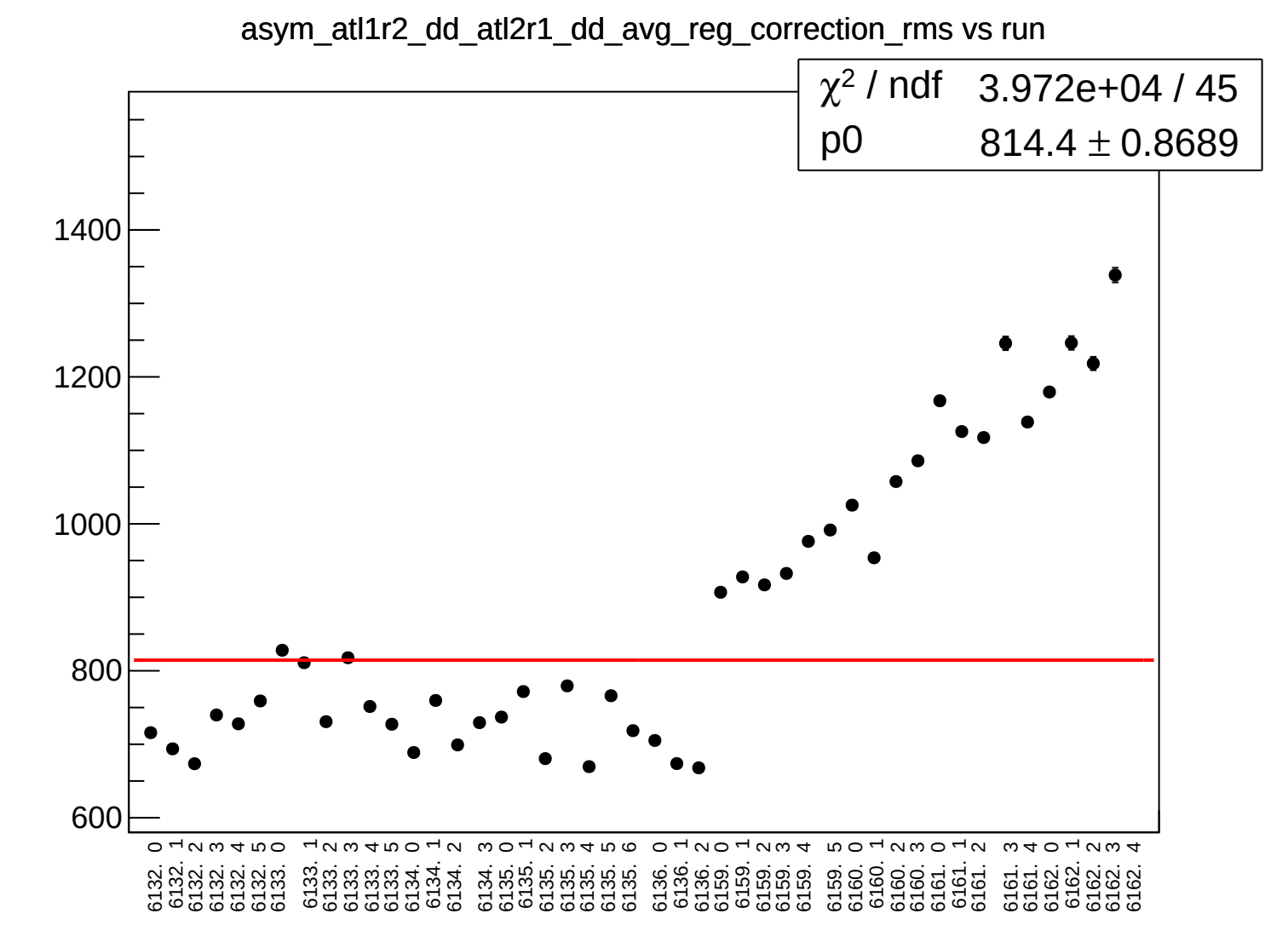

pull1D
Entries 46
Mean −0.06467
Std Dev 1.048
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

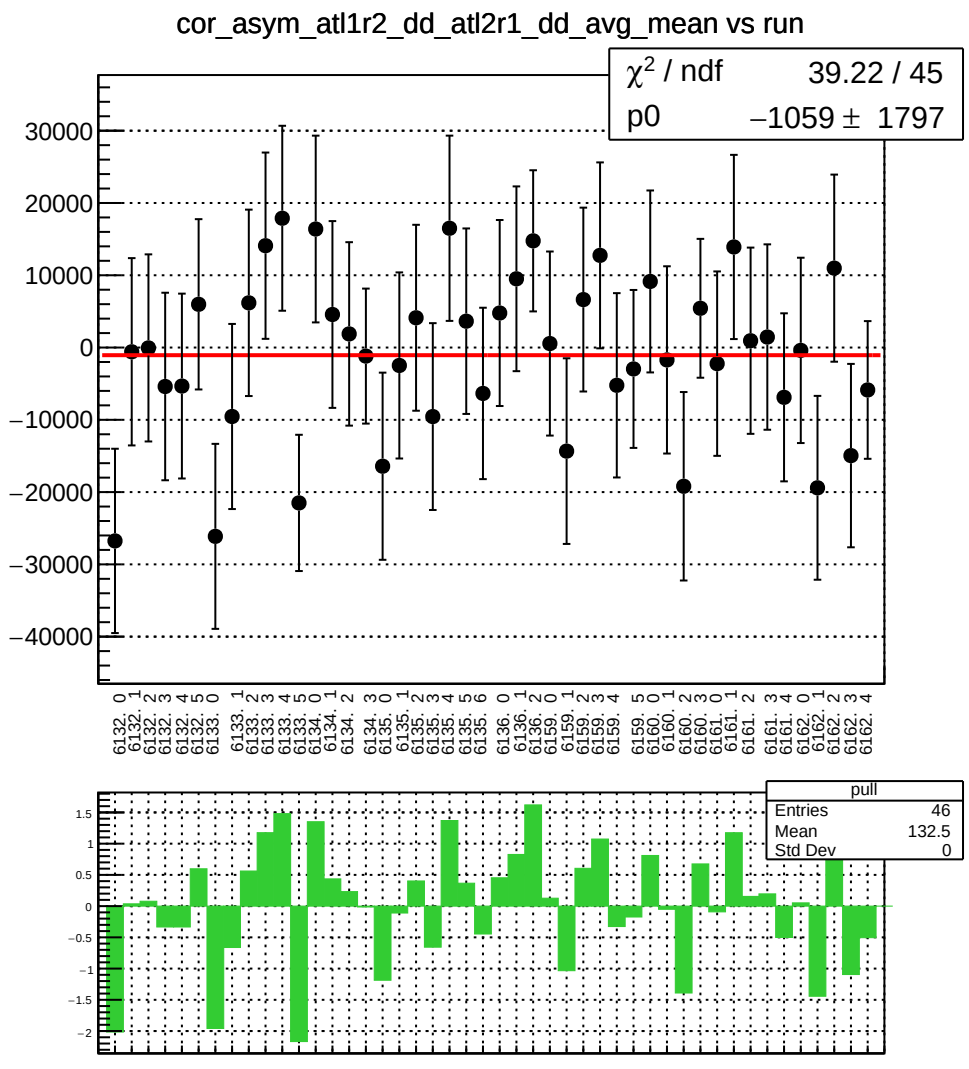

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.924e+05 / 45
p0 1.302e−10 ± 1.796e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 39.22 / 45
p0 −1059 ± 1797
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 132.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.006355
Std Dev 0.9234
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 54.77 / 45
p0 1217 ± 1.27
1250
1240
1230
1220
1210
1200
1190
1180
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 49.86 / 45
p0 −400.5 ± 1229
pull
Entries 46
Mean 178.9
Std Dev 0
pull1D
Entries 46
Mean 0.02771
Std Dev 1.041


asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 3.972e+04 / 45
p0 814.4 ± 0.8689
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 39.22 / 45
p0 −1059 ± 1797
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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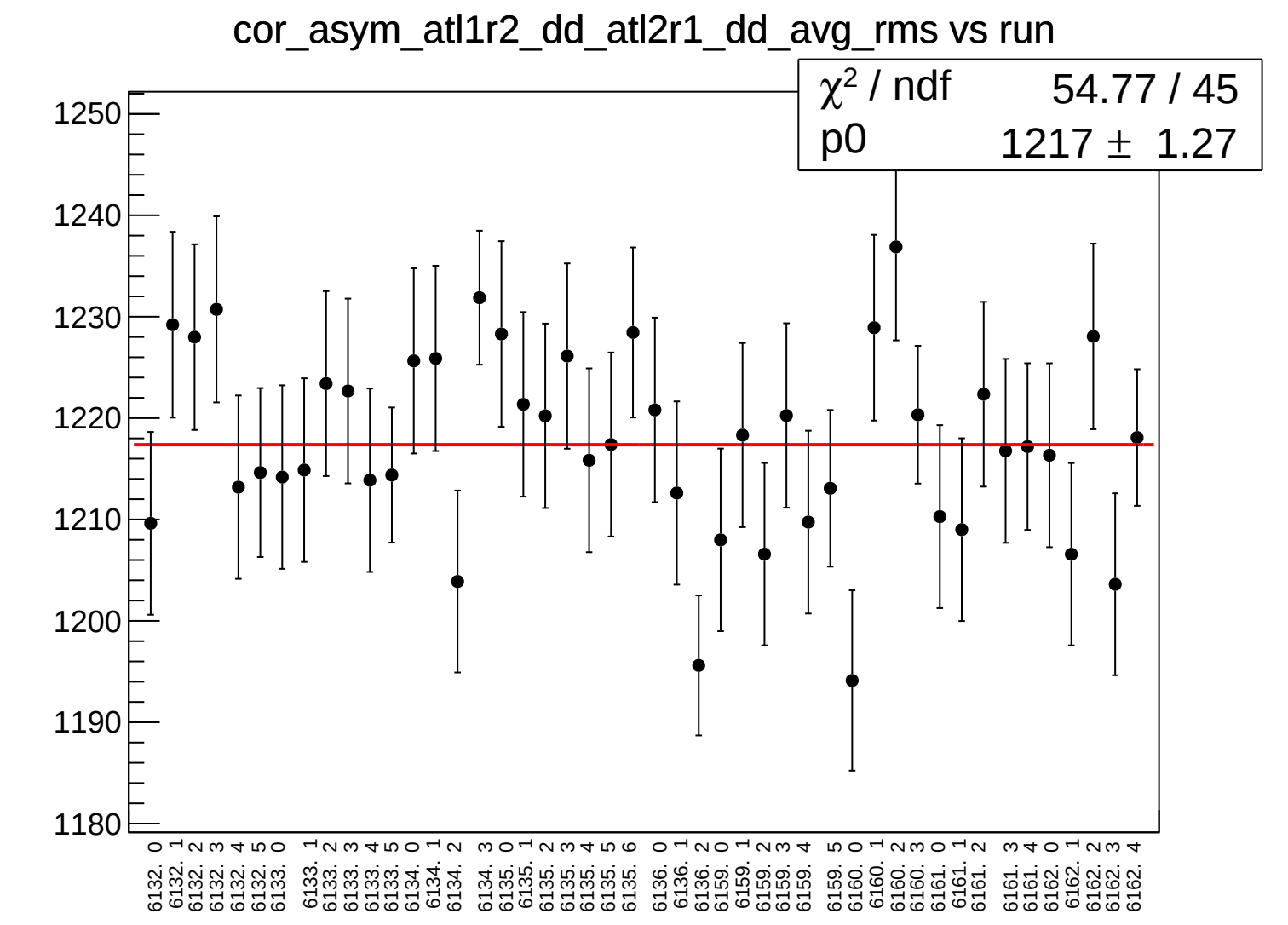
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 132.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.006355
Std Dev 0.9234
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 54.77 / 45
p0 1217 ± 1.27
1250
1240
1230
1220
1210
1200
1190
1180
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
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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
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6159. 1
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6159. 3
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6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6162. 0
6162. 1
6162. 2
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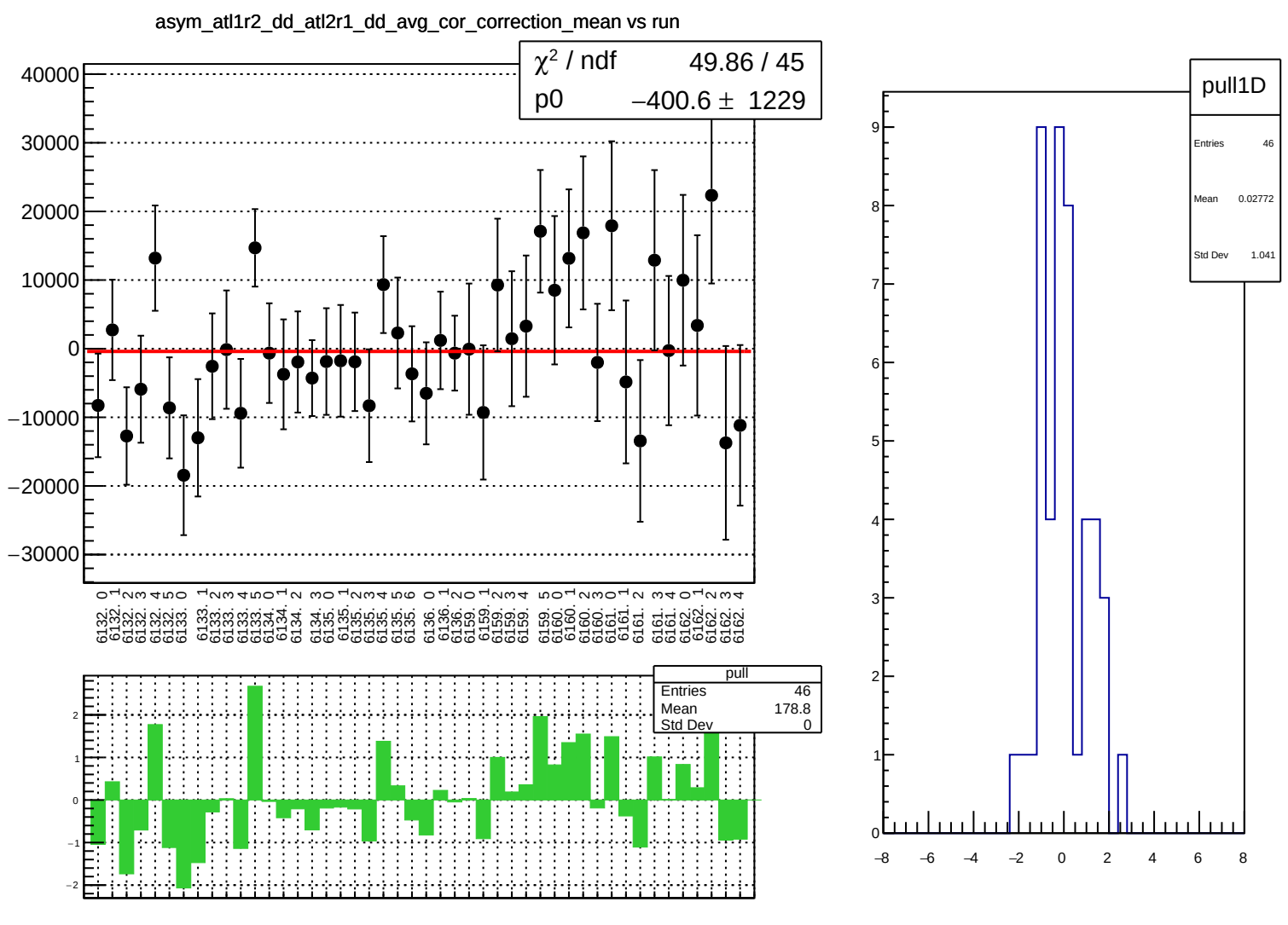
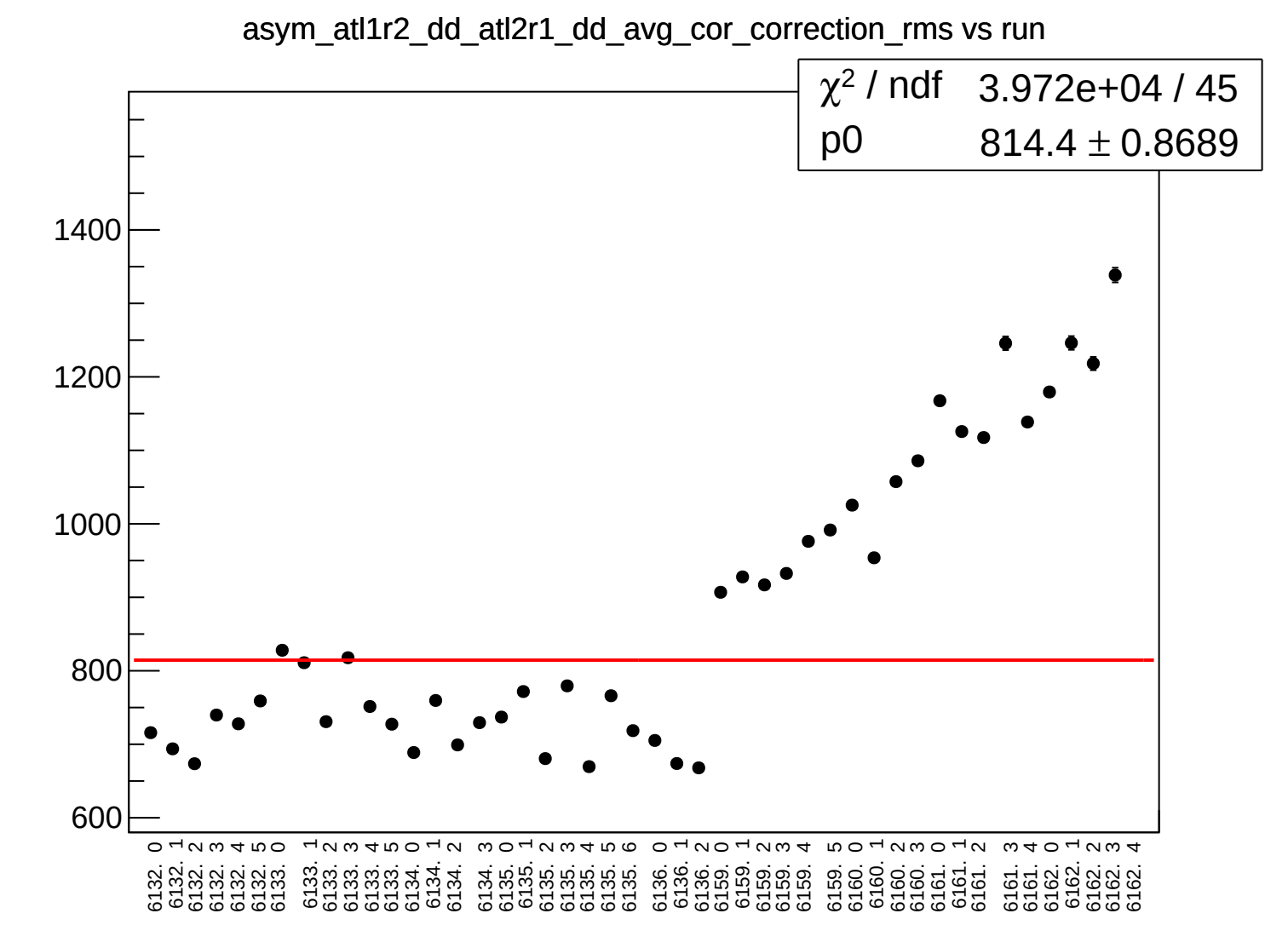
6162. 4


asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 49.86 / 45
p0 −400.6 ± 1229
40000
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 178.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02772
Std Dev 1.041
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 3.972e+04 / 45
p0 814.4 ± 0.8689
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
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6135. 0
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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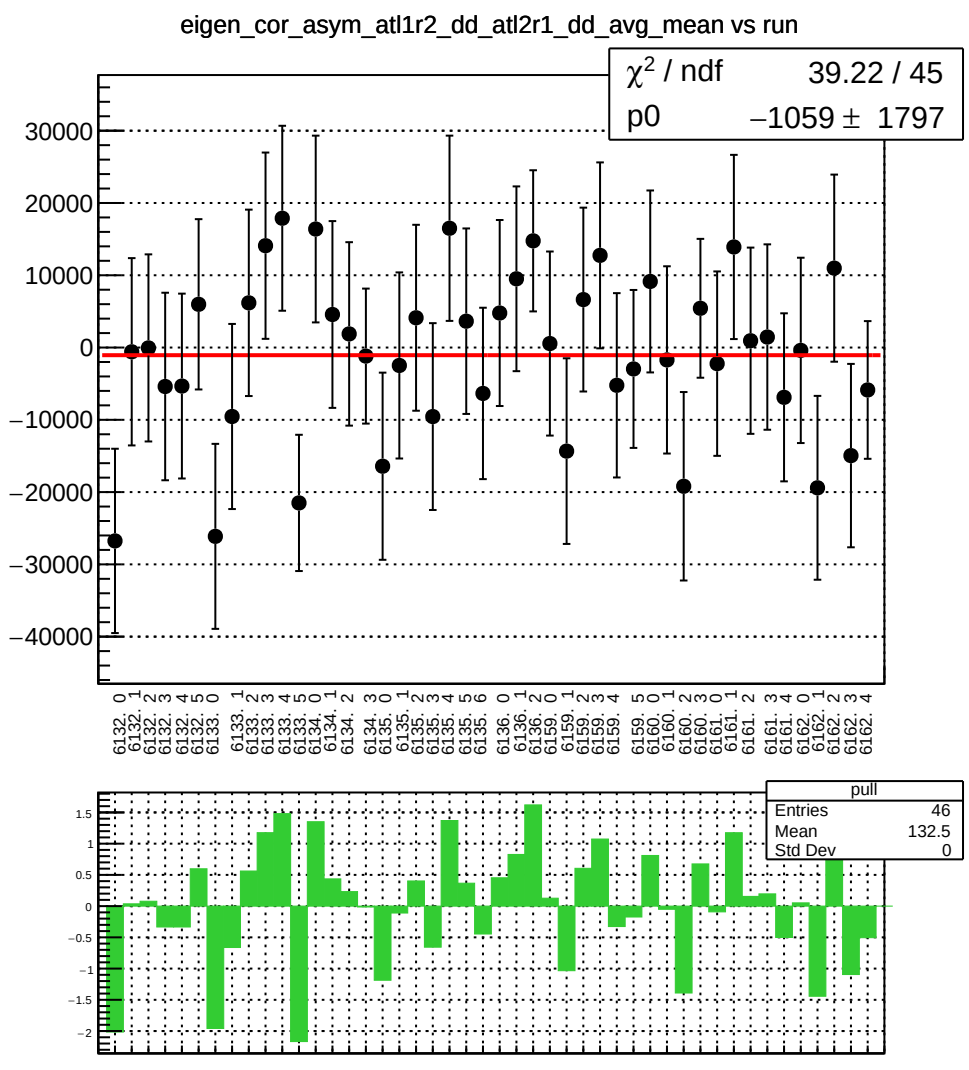
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 39.22 / 45
p0 −1059 ± 1797
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
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6133. 3
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6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
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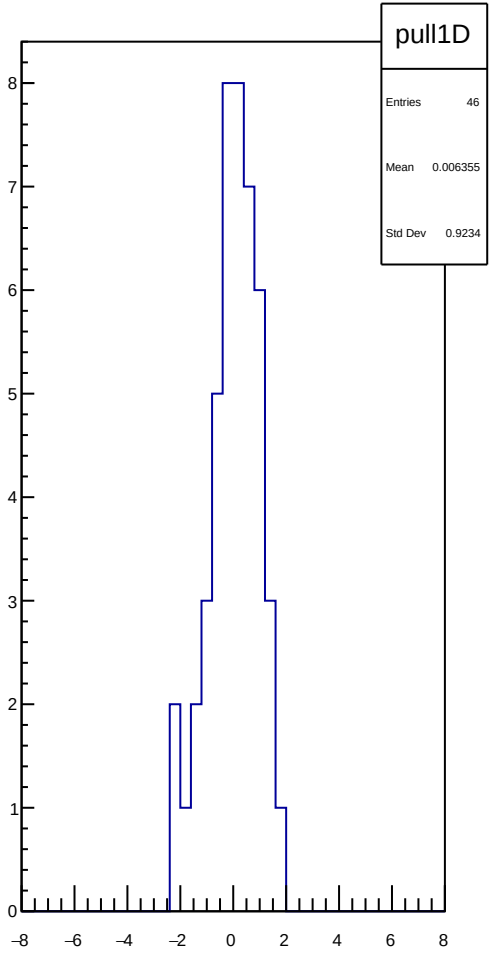
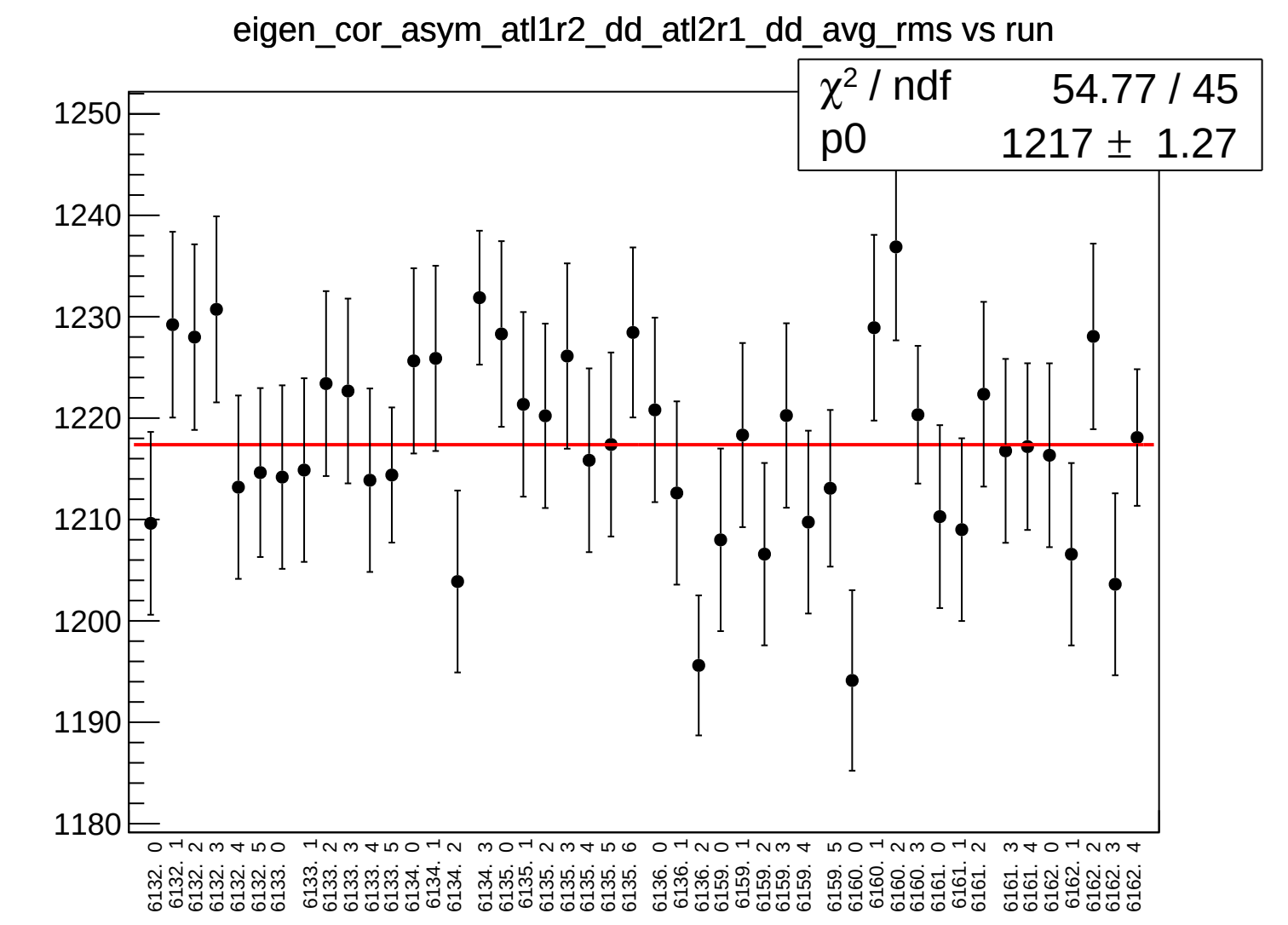
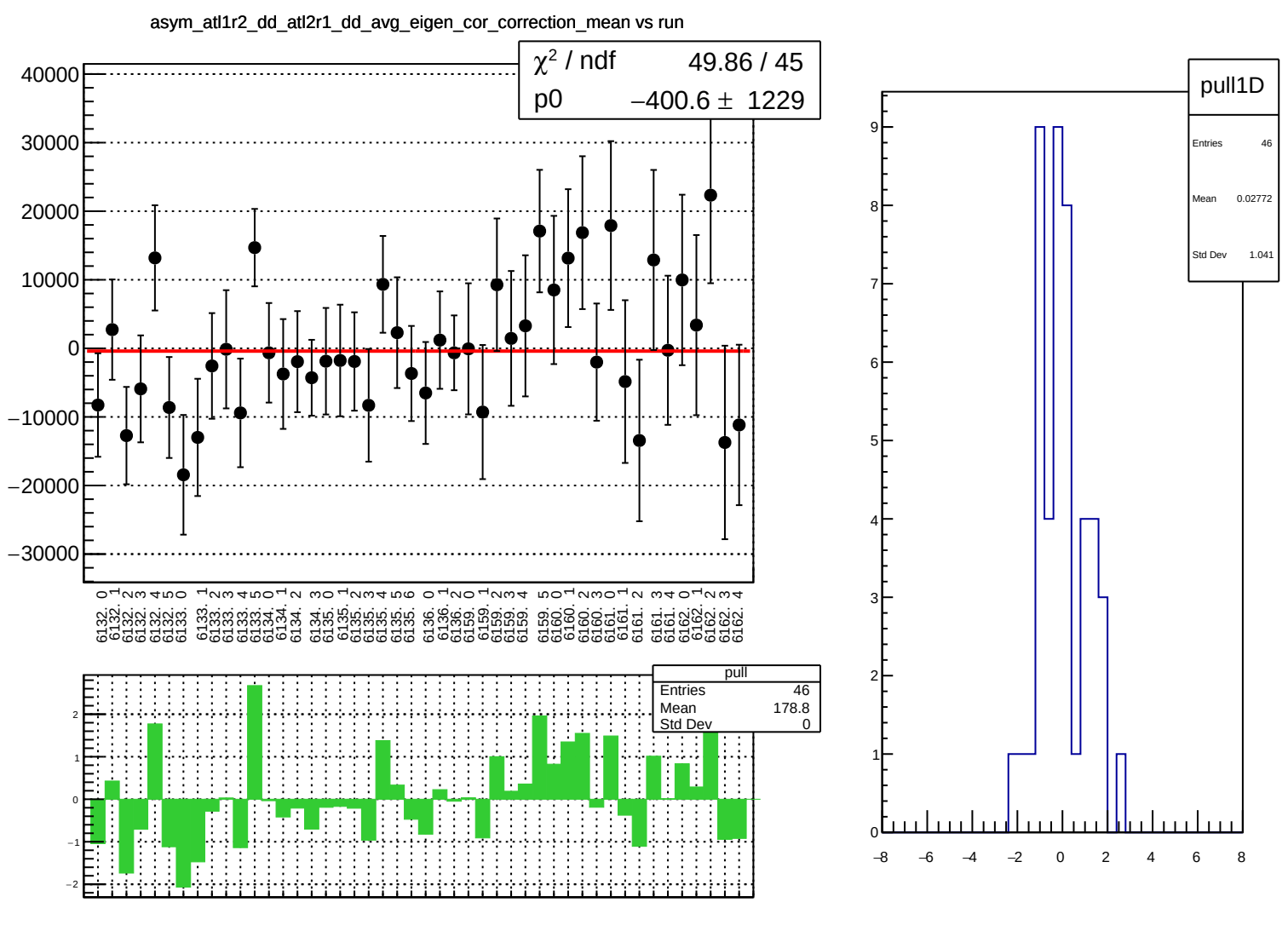
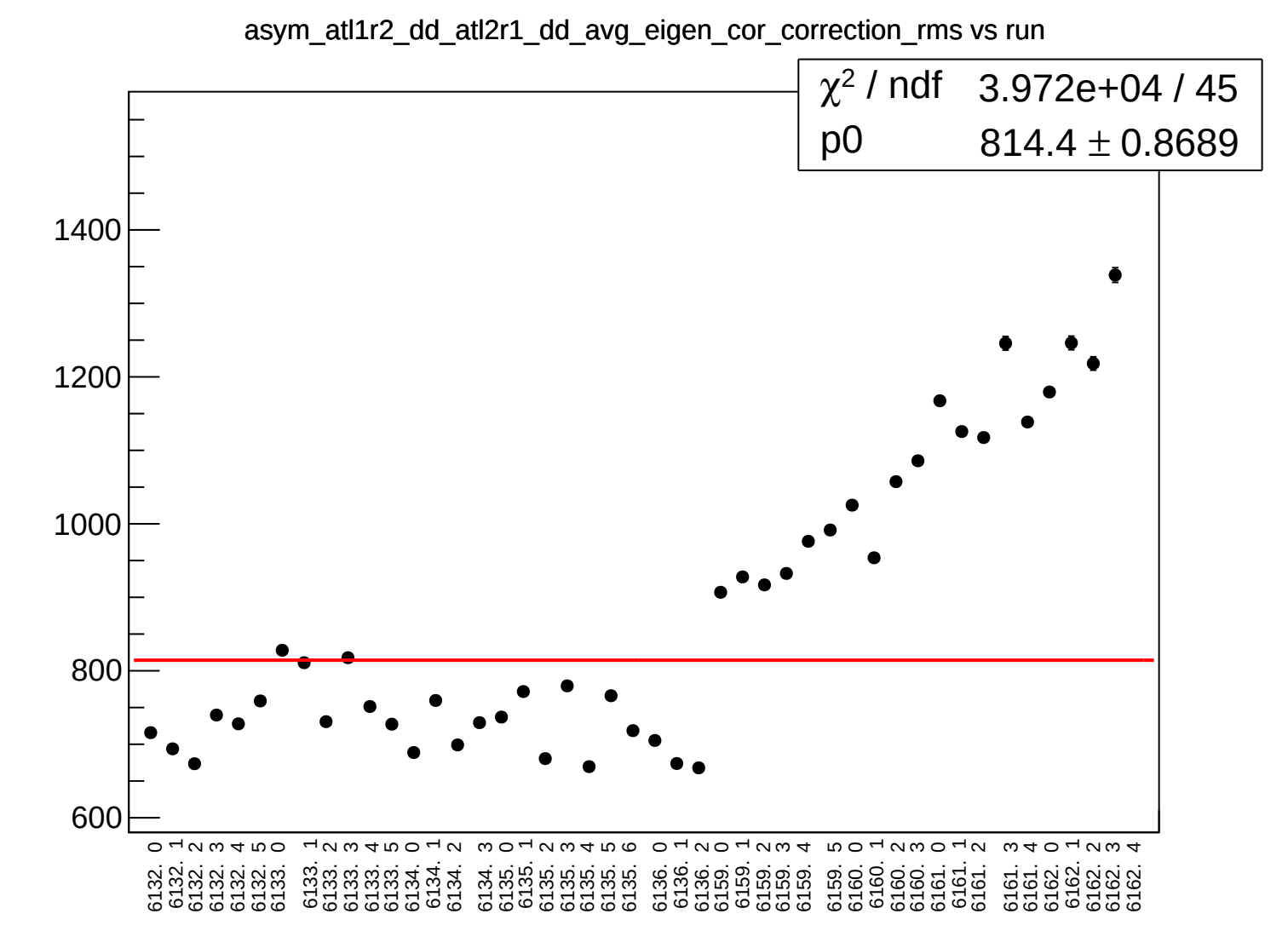
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 132.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.006355
Std Dev 0.9234
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 54.77 / 45
p0 1217 ± 1.27
1250
1240
1230
1220
1210
1200
1190
1180
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 49.86 / 45
p0 −400.6 ± 1229
40000
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 178.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02772
Std Dev 1.041
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.972e+04 / 45
p0 814.4 ± 0.8689
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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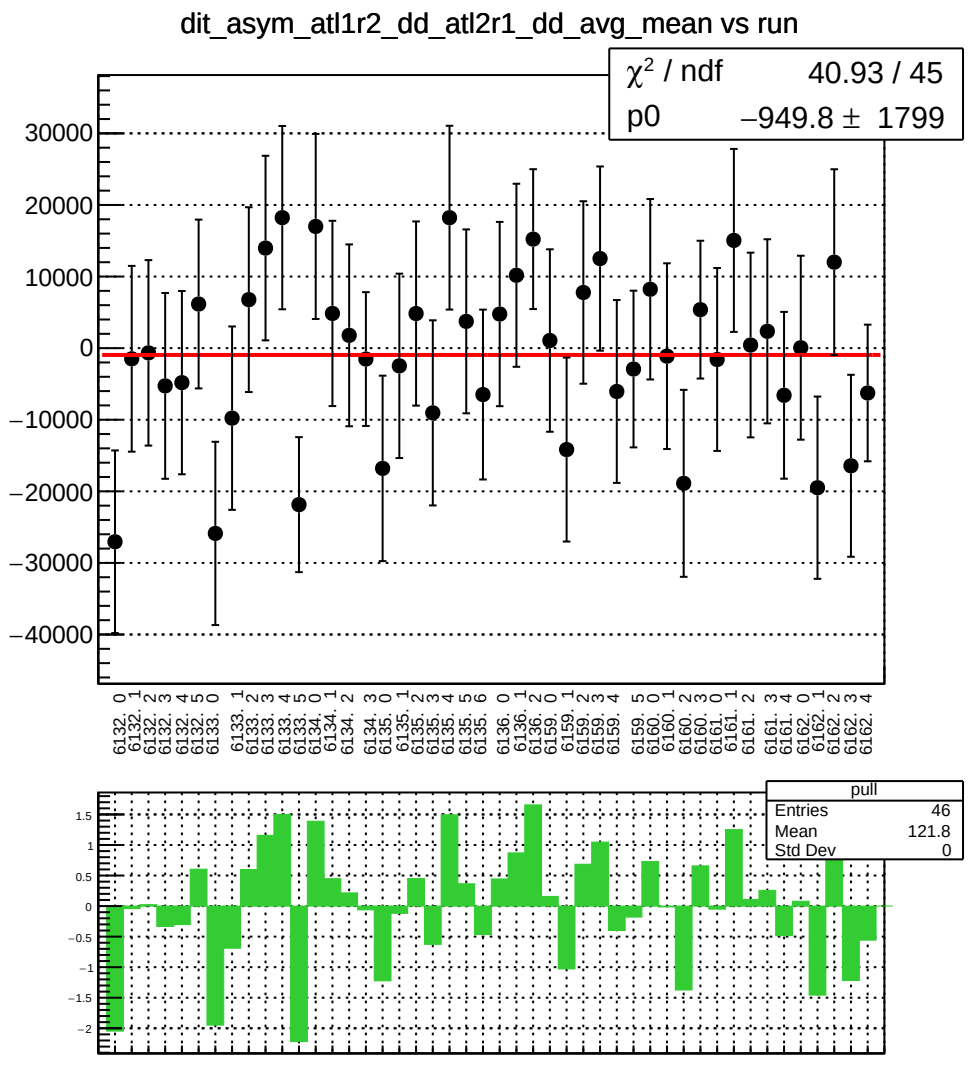
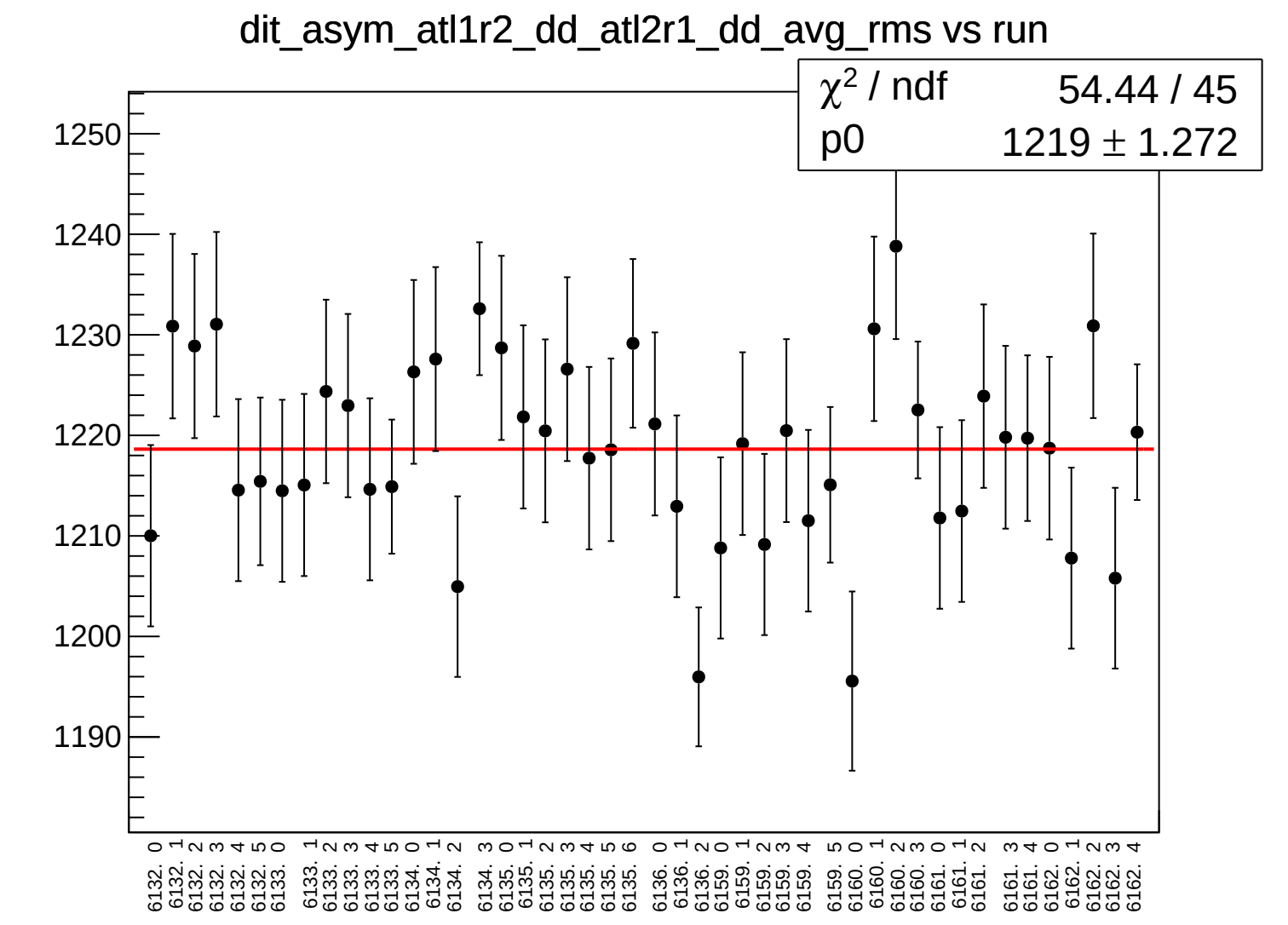
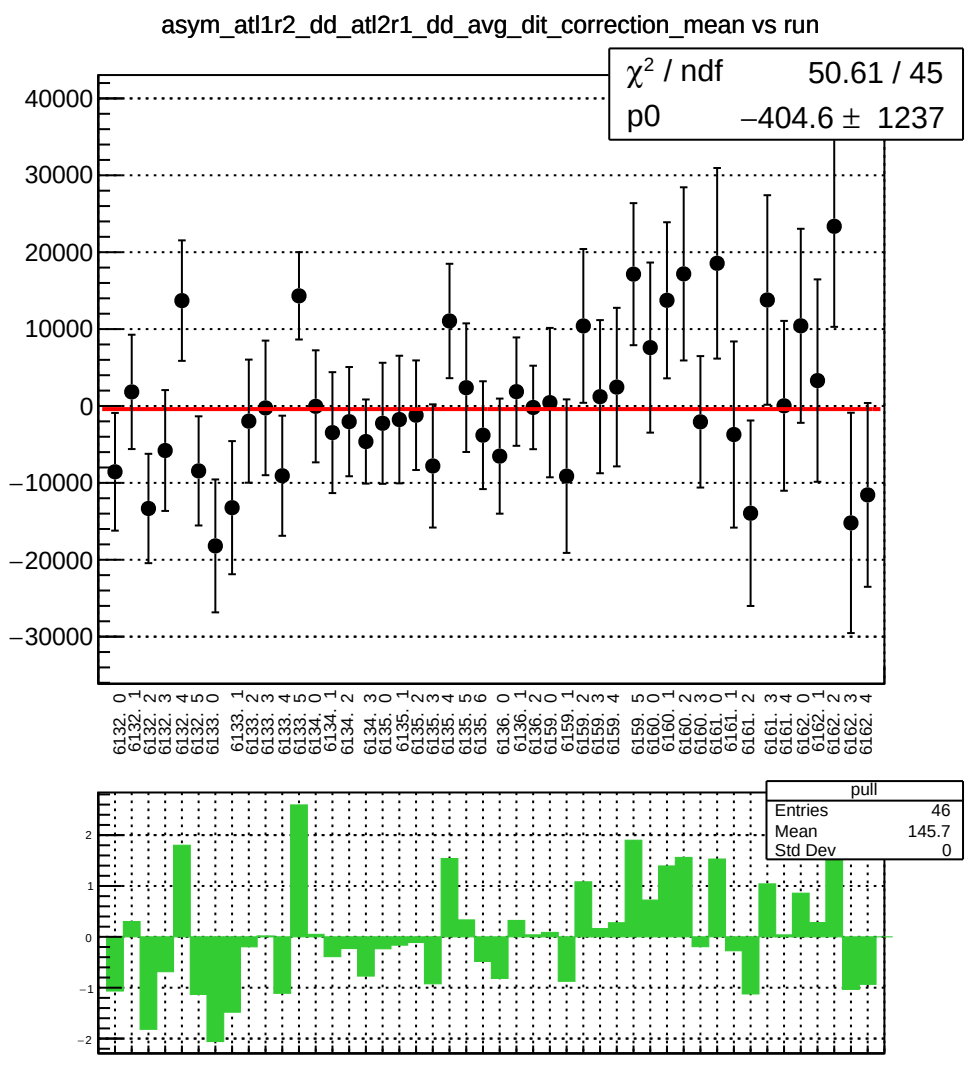
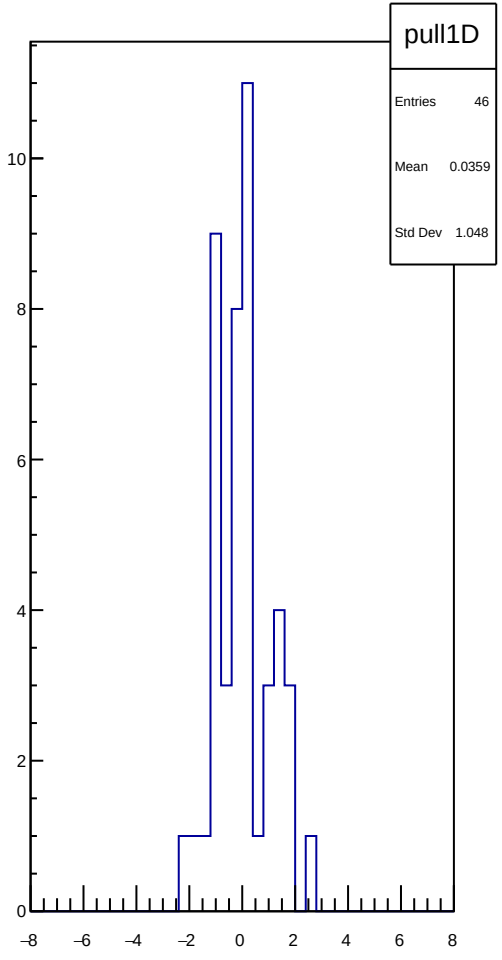
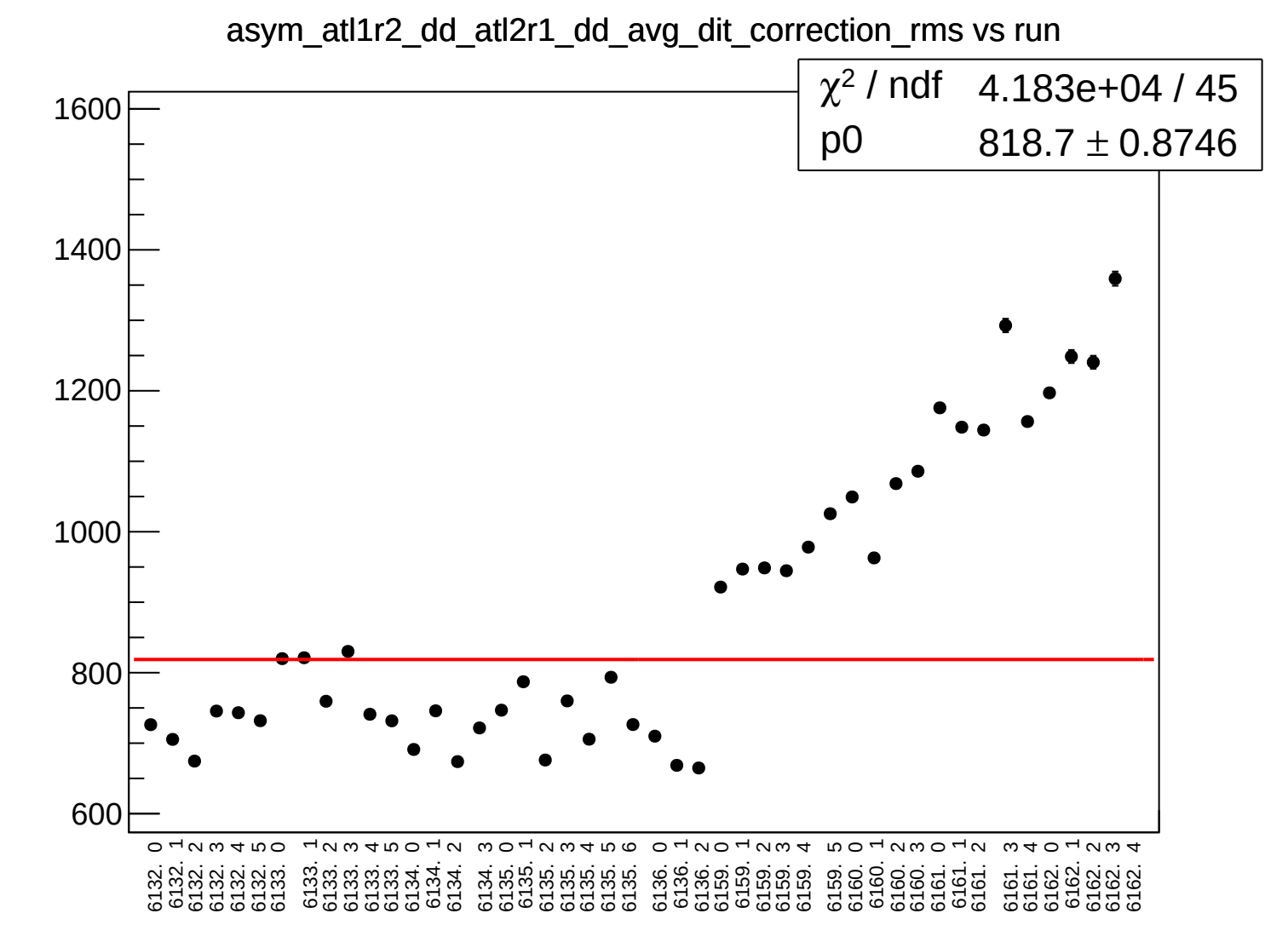
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

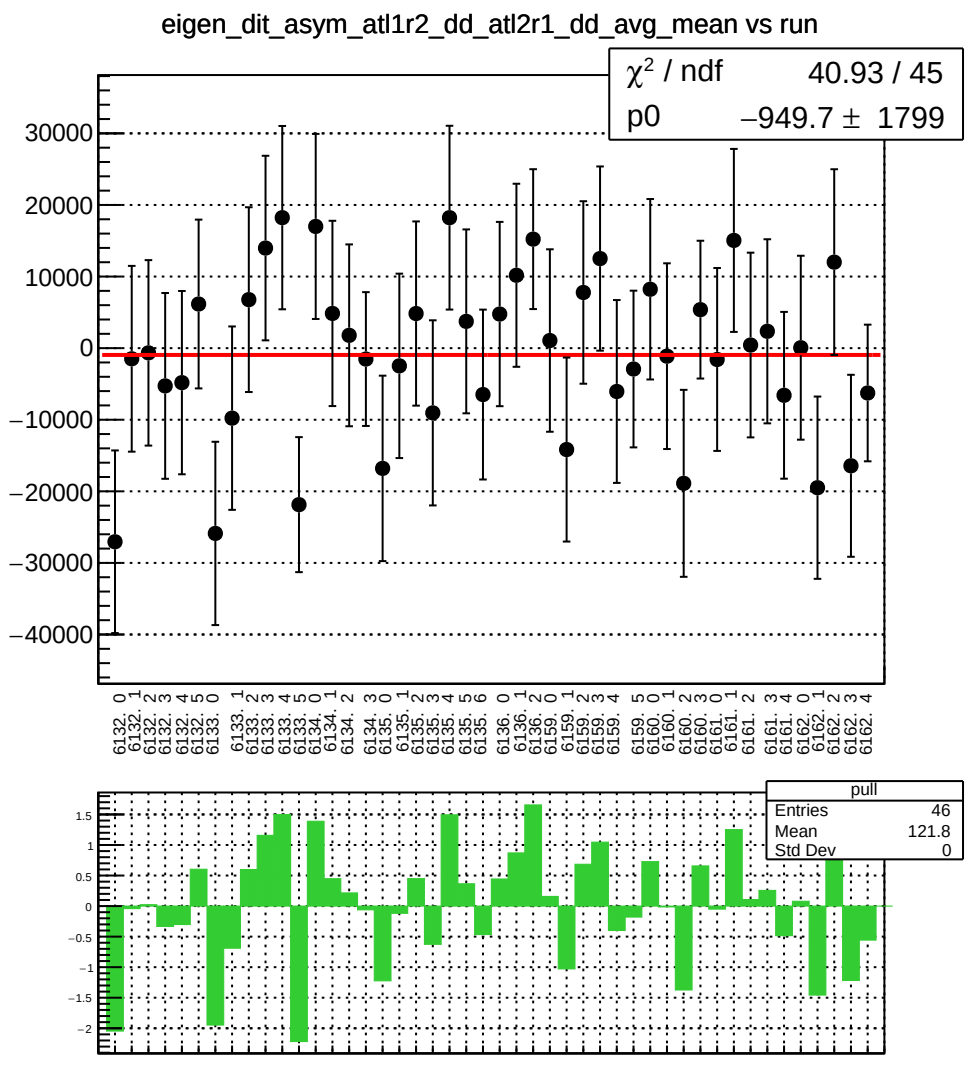

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 40.93 / 45
p0 −949.8 ± 1799
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 121.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.007555
Std Dev 0.9433
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 54.44 / 45
p0 1219 ± 1.272
1250
1240
1230
1220
1210
1200
1190
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 50.61 / 45
p0 −404.6 ± 1237
40000
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 145.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.0359
Std Dev 1.048
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 4.183e+04 / 45
p0 818.7 ± 0.8746
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 40.93 / 45
p0 −949.7 ± 1799
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 121.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.007555
Std Dev 0.9433
9
8
7
6
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4
3
2
1
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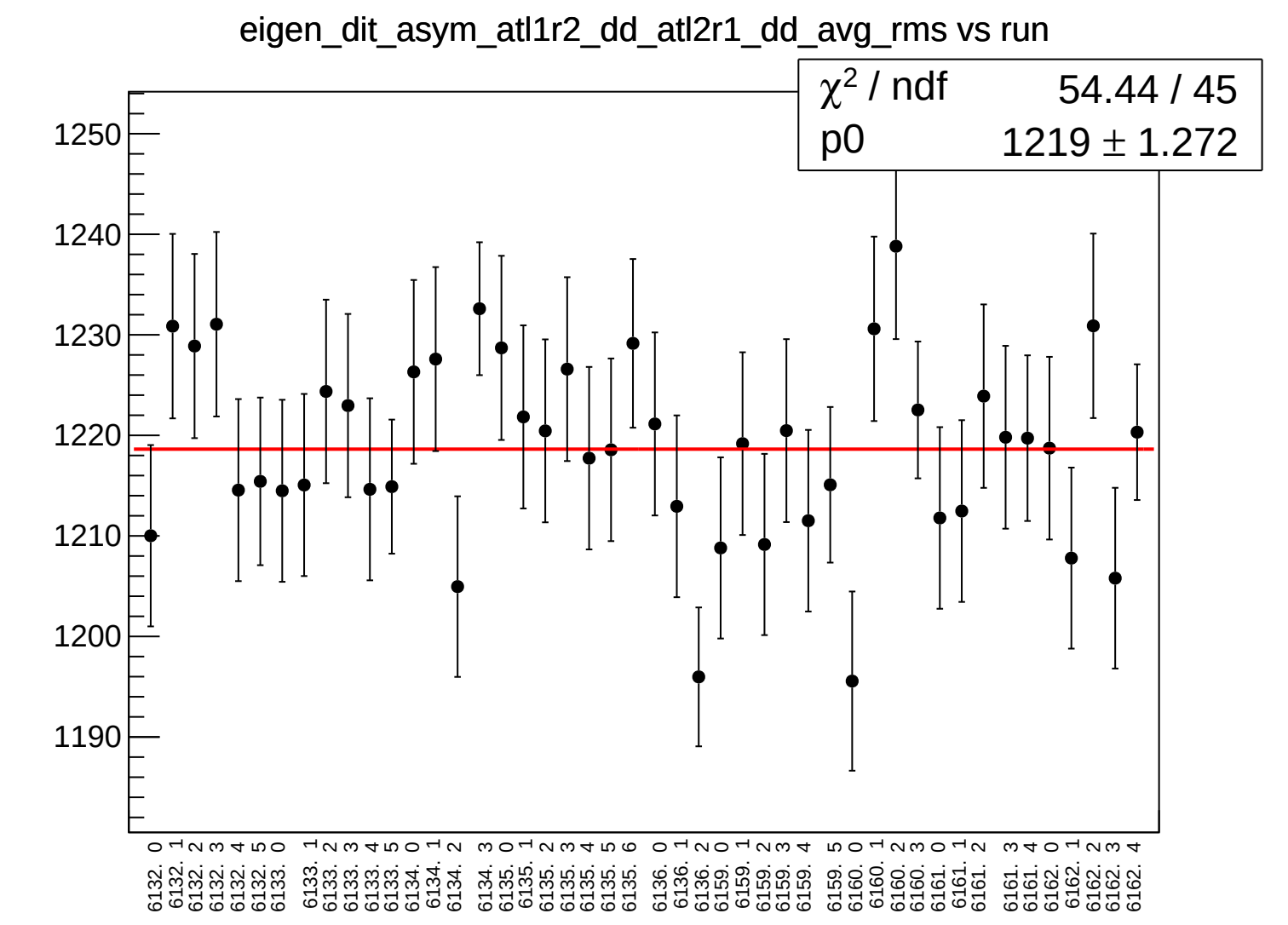
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 54.44 / 45
p0 1219 ± 1.272
1250
1240
1230
1220
1210
1200
1190
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
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6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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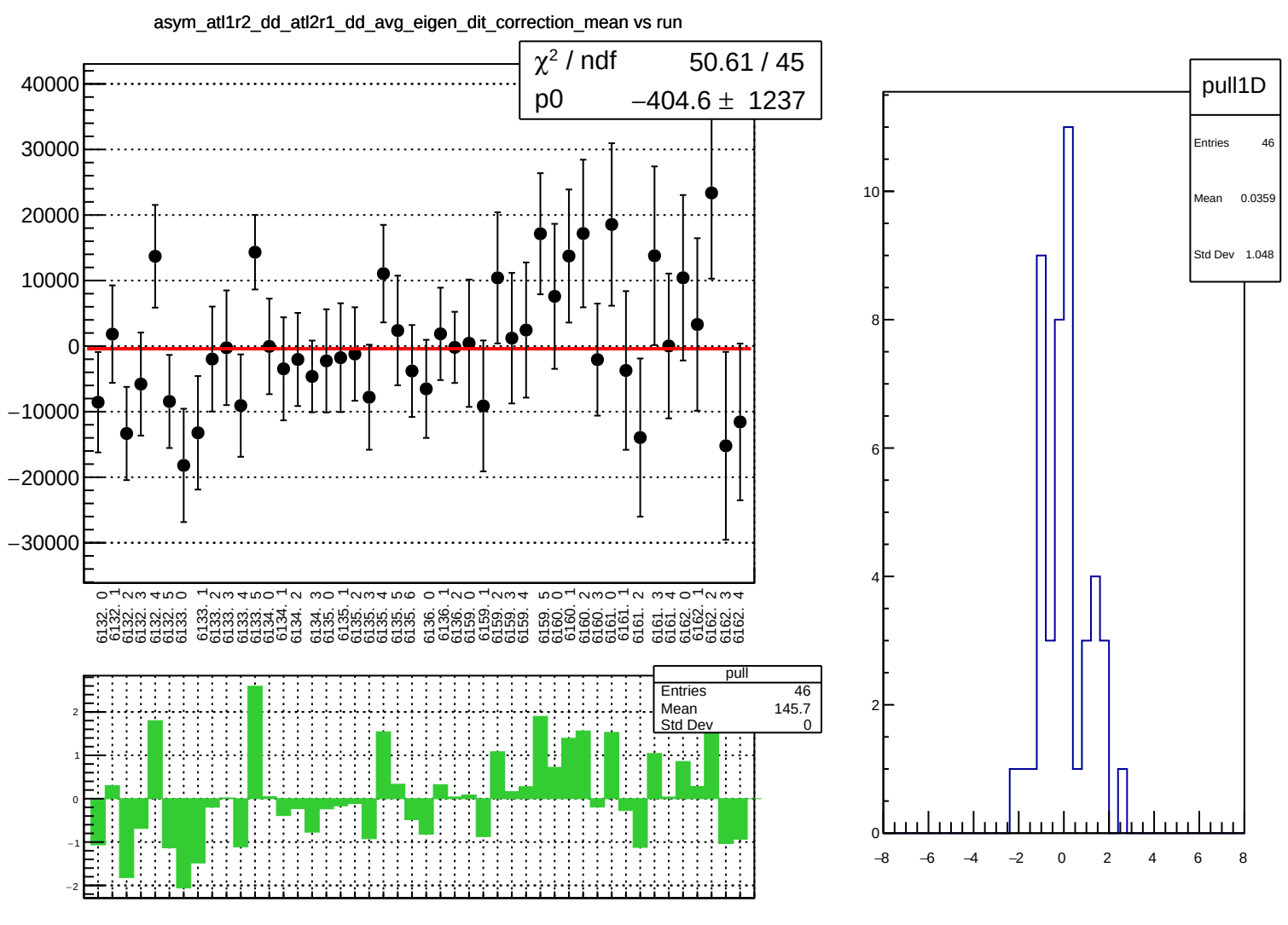
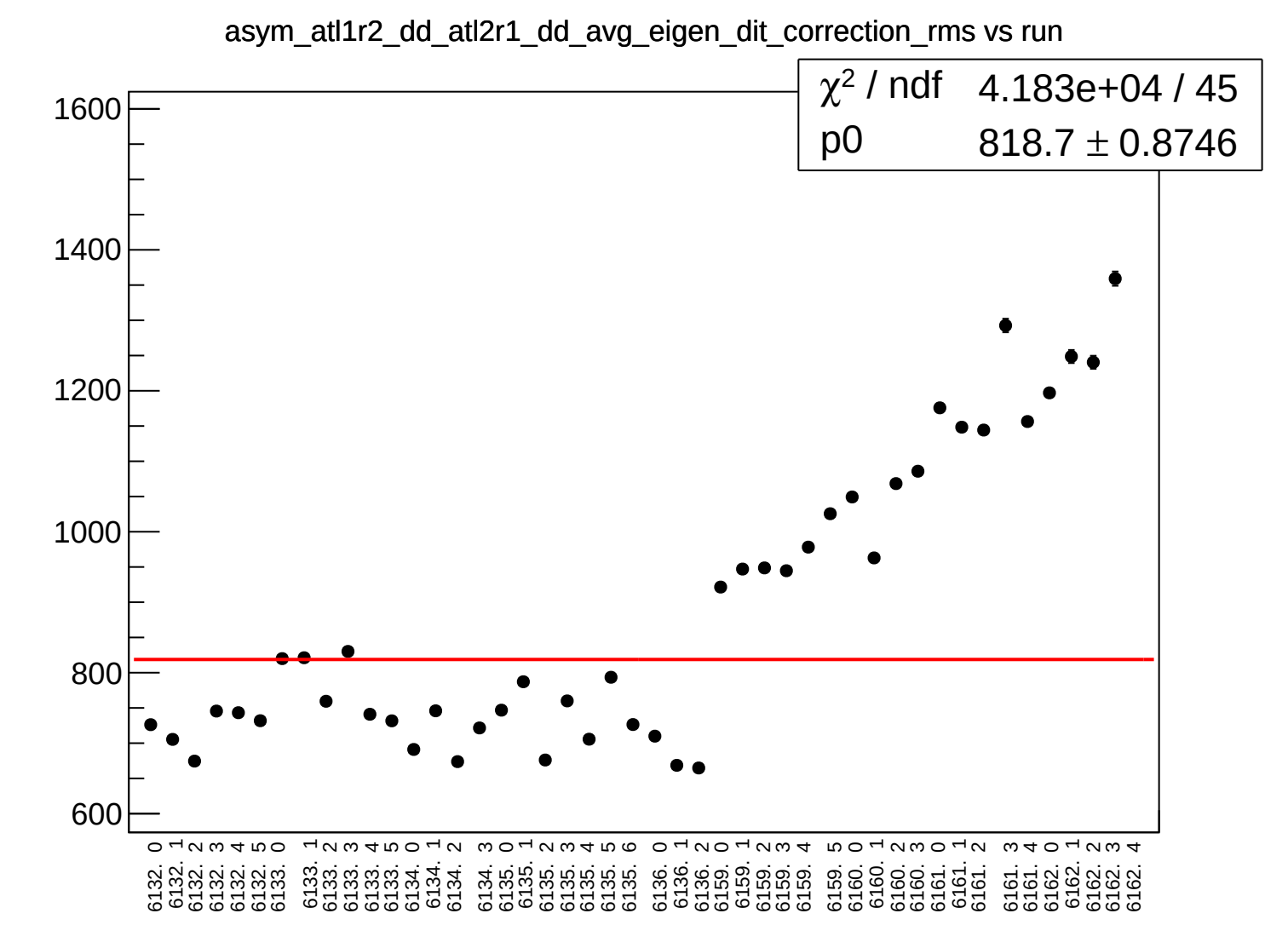
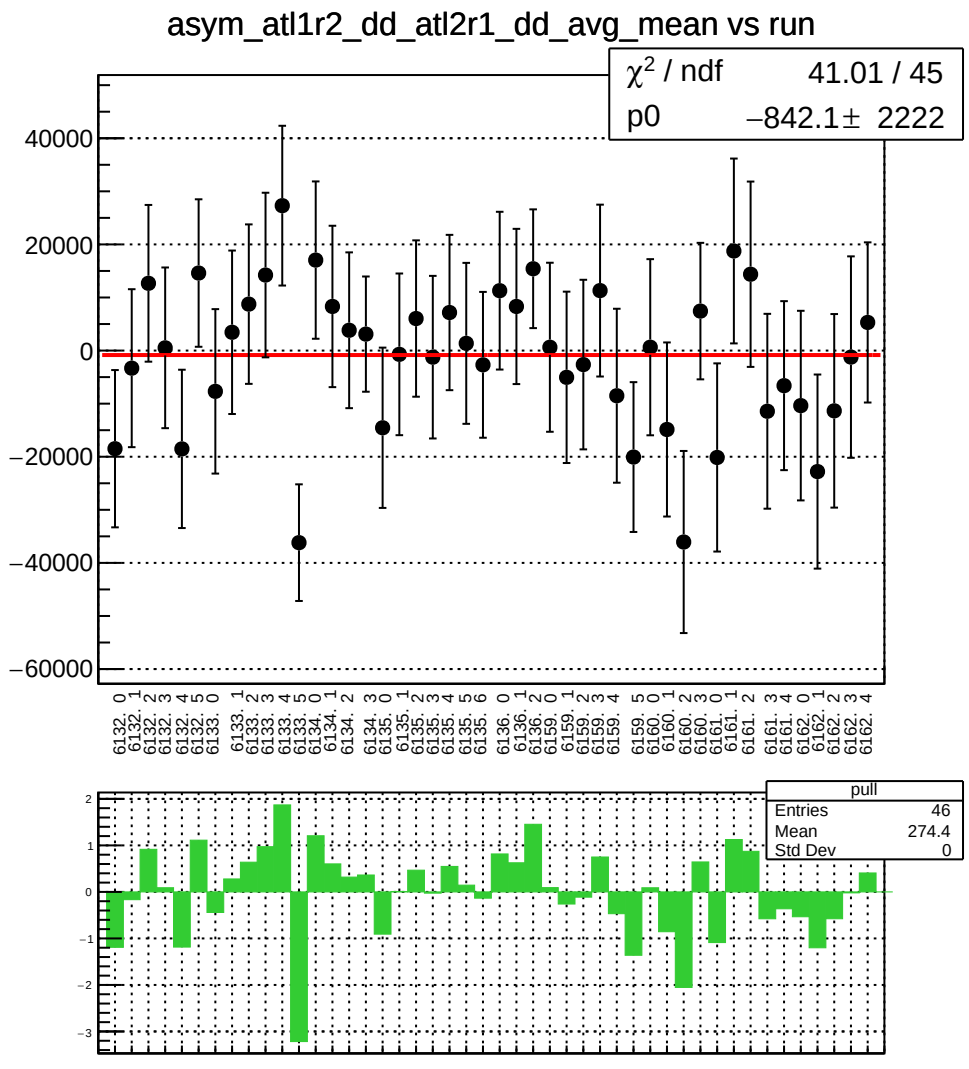
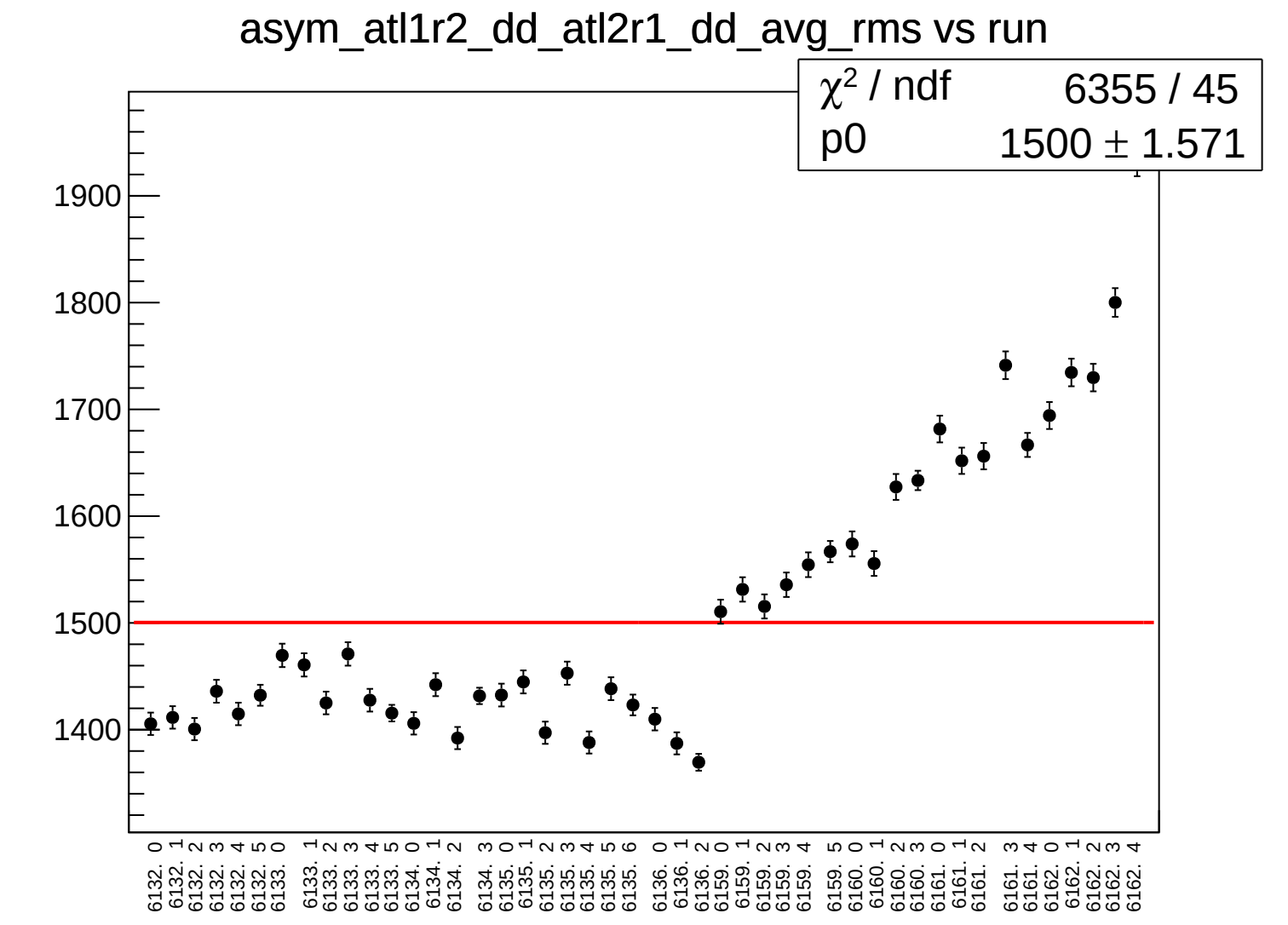
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 50.61 / 45
p0 −404.6 ± 1237
40000
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 145.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.0359
Std Dev 1.048
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.183e+04 / 45
p0 818.7 ± 0.8746
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 41.01 / 45
p0 −842.1± 2222
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 274.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.007128
Std Dev 0.9441
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 6355 / 45
p0 1500 ± 1.571
1900
1800
1700
1600
1500
1400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 4
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6136. 0
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6159. 3
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6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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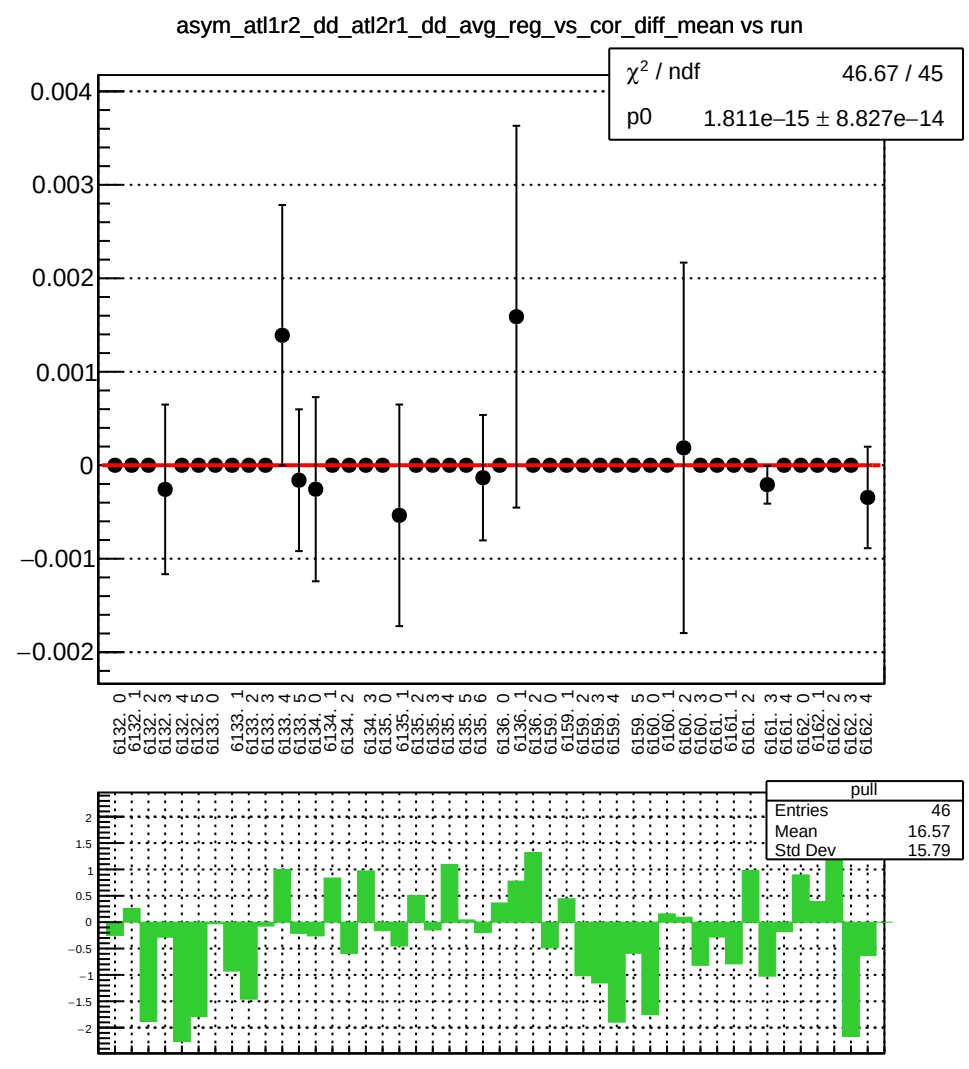
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 46.67 / 45
p0 1.811e−15 ± 8.827e−14
0.004
0.003
0.002
0.001
0
−0.001
−0.002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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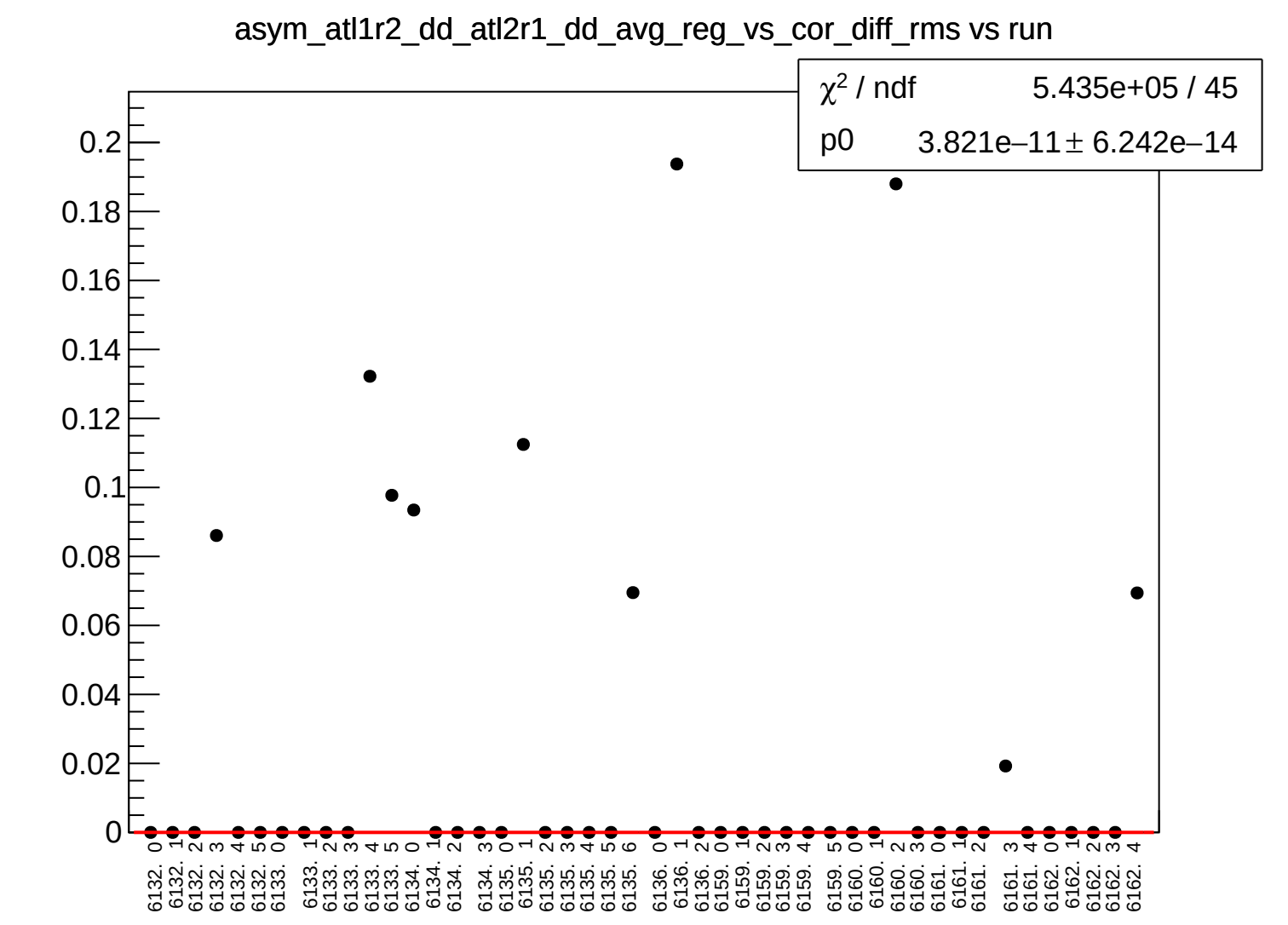
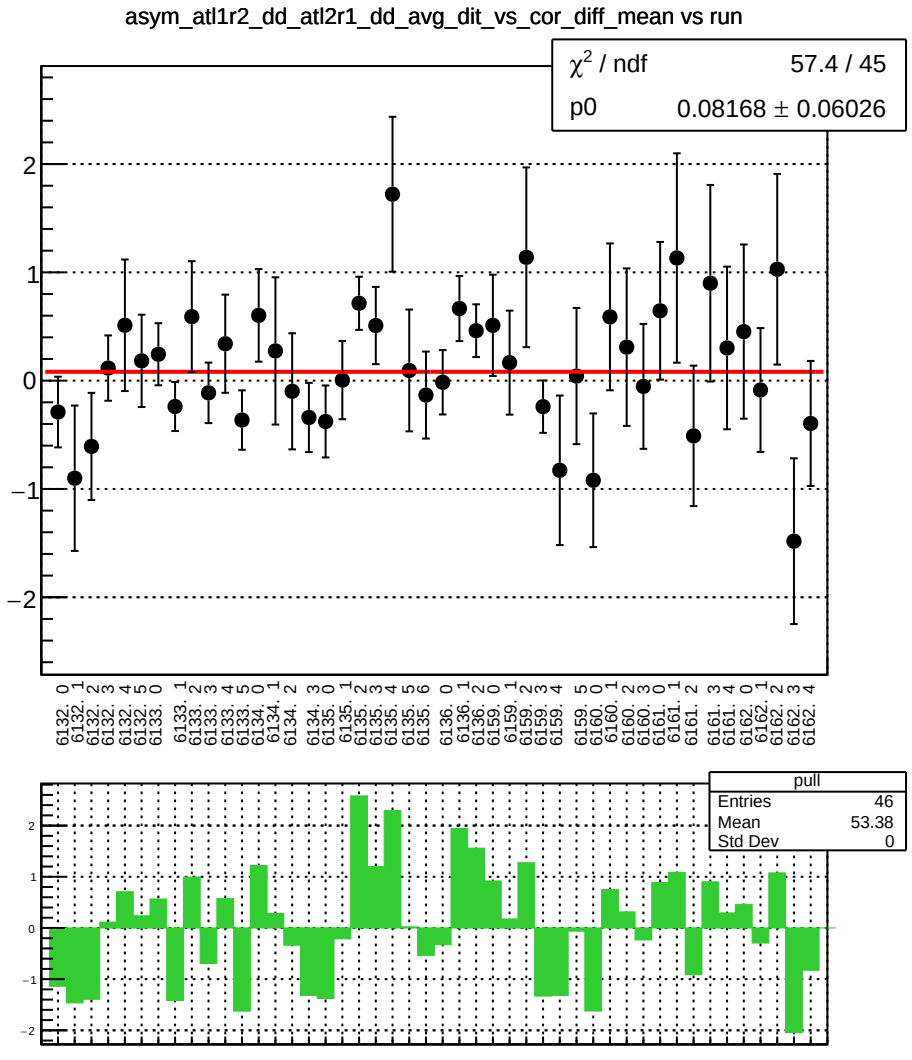
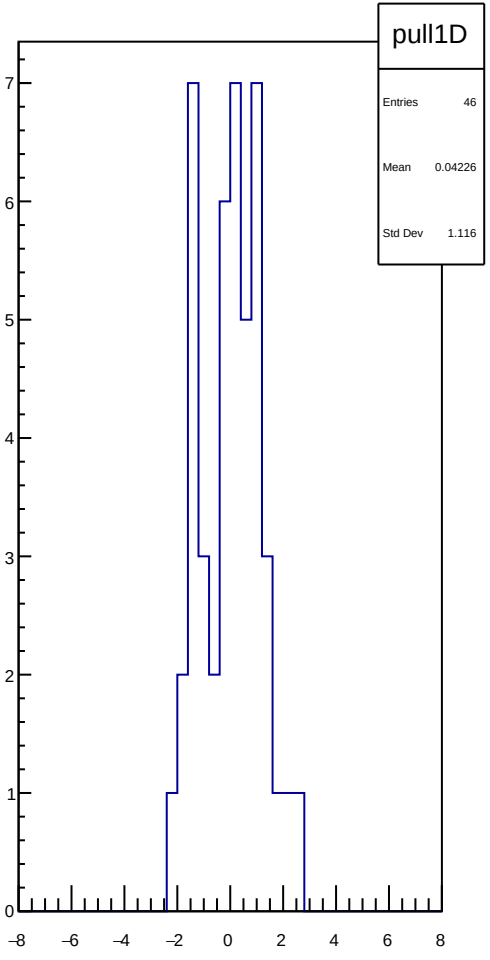
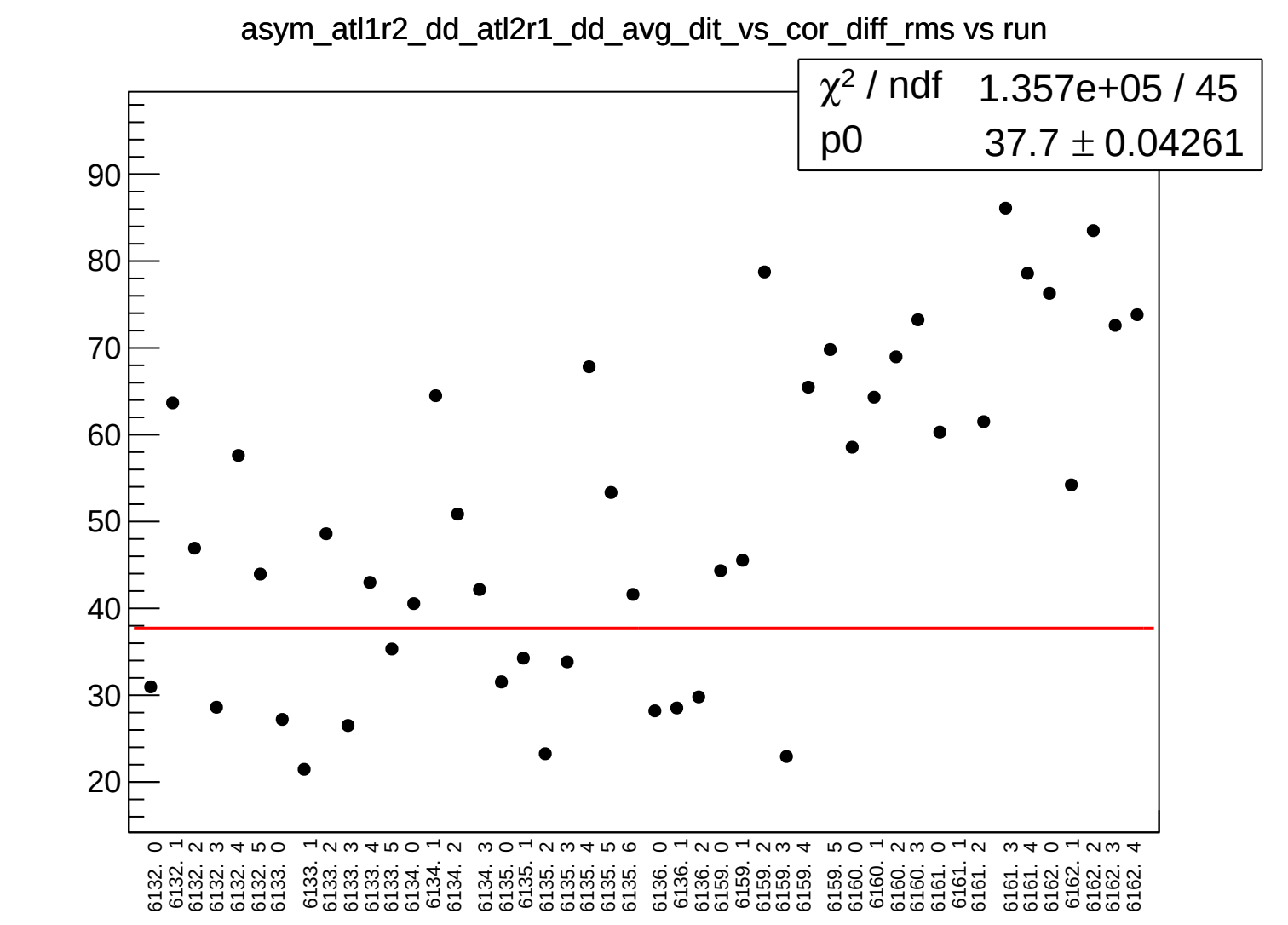
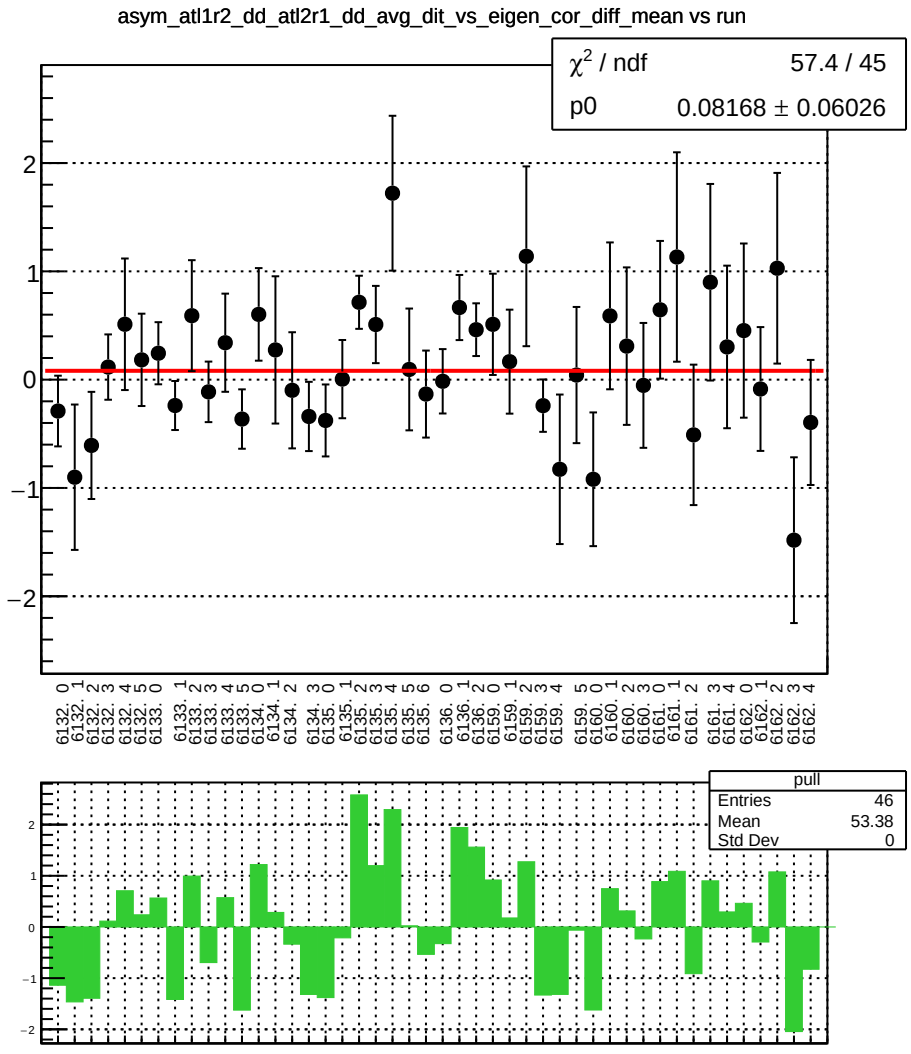
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 16.57
Std Dev 15.79
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.2481
Std Dev 0.9762
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

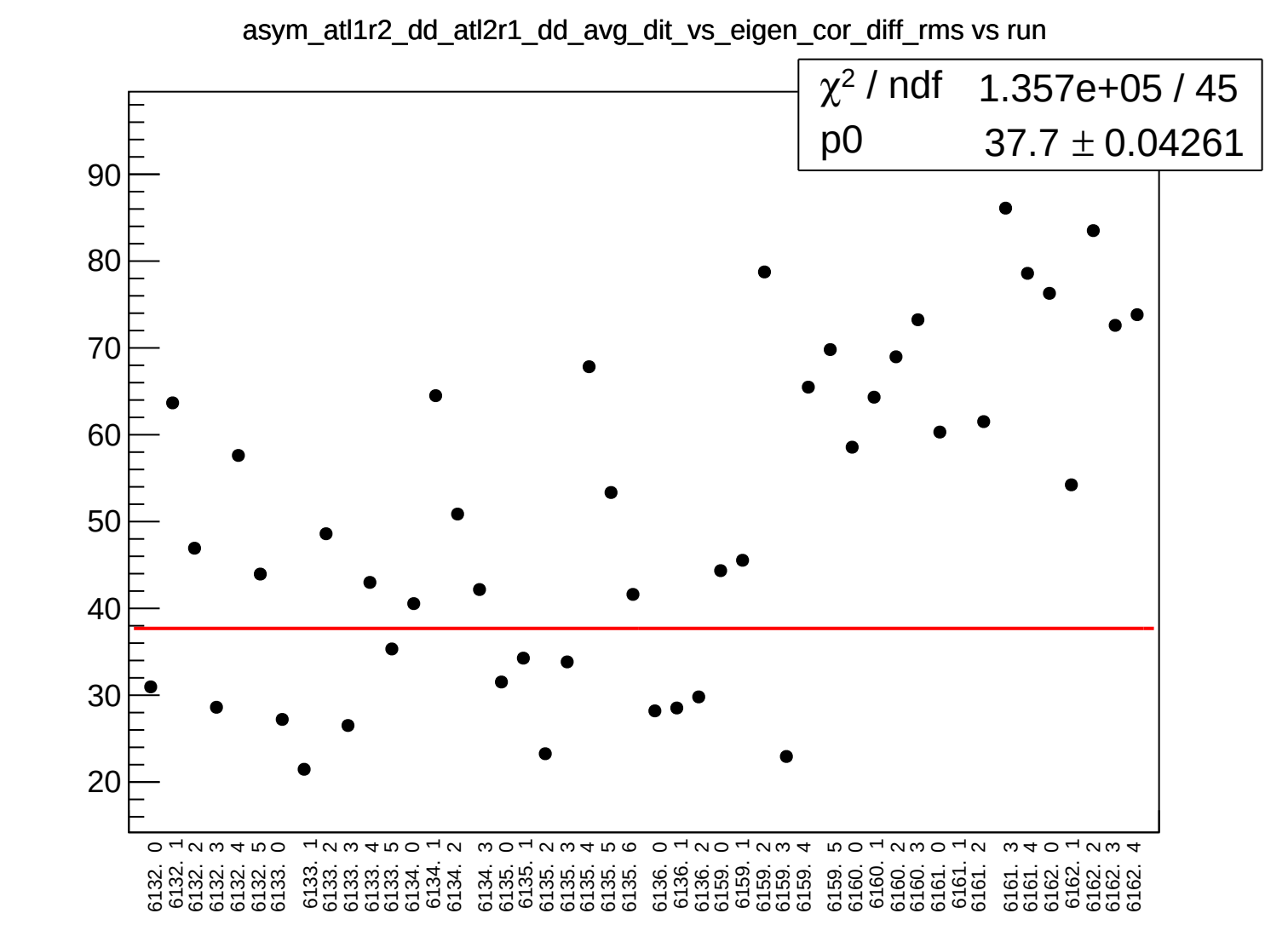

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.435e+05 / 45
p0 3.821e−11 ± 6.242e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

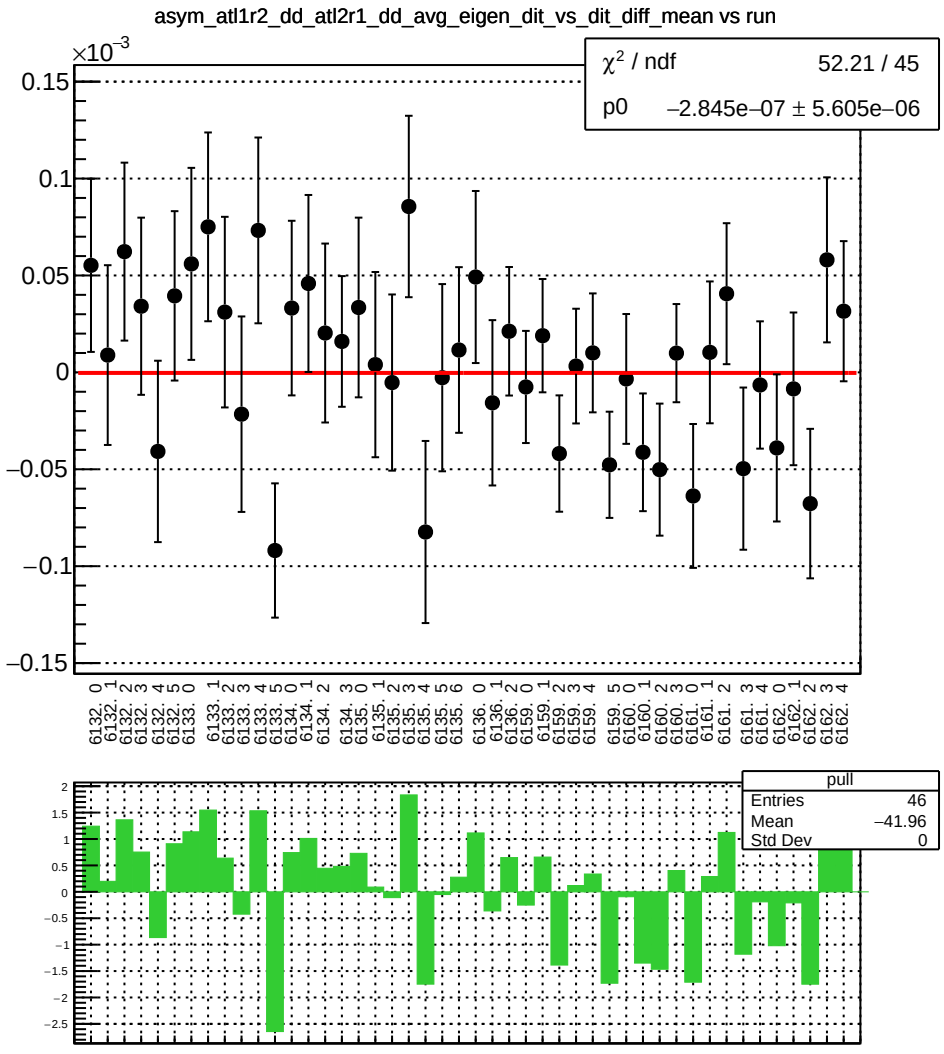

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 57.4 / 45
p0 0.08168 ± 0.06026
pull
Entries 46
Mean 53.38
Std Dev 0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

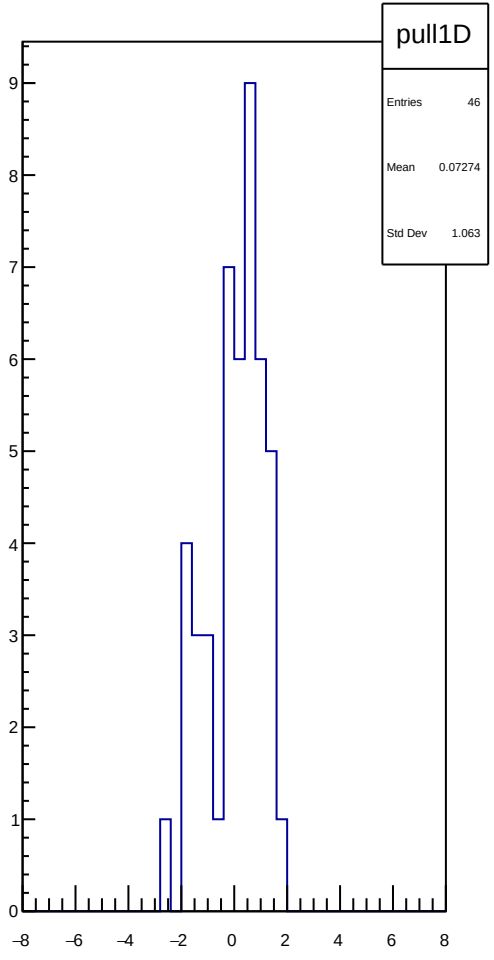

pull1D
Entries 46
Mean 0.04226
Std Dev 1.116

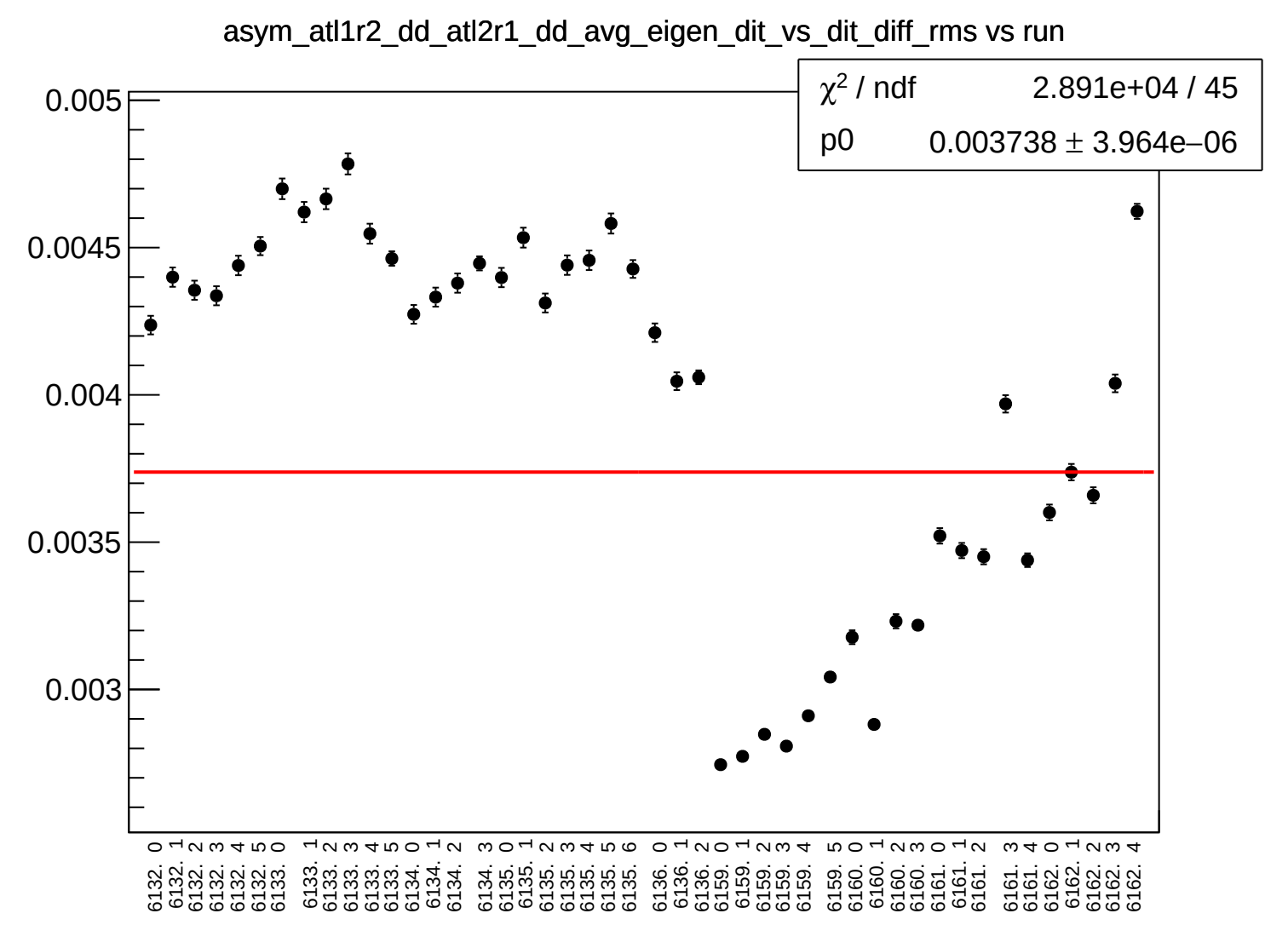

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.357e+05 / 45
p0 37.7 ± 0.04261
90
80
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

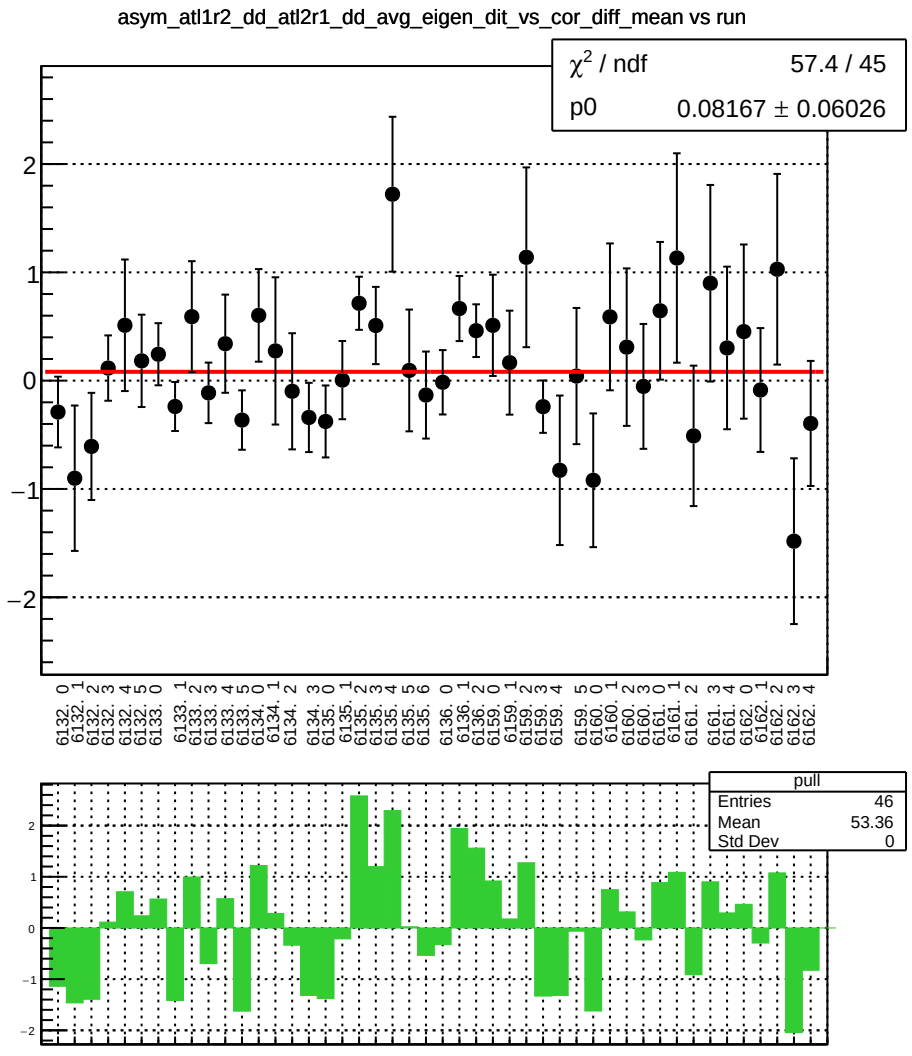

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.4 / 45
p0 0.08168 ± 0.06026
pull
Entries 46
Mean 53.38
Std Dev 0
pull1D
Entries 46
Mean 0.04226
Std Dev 1.116

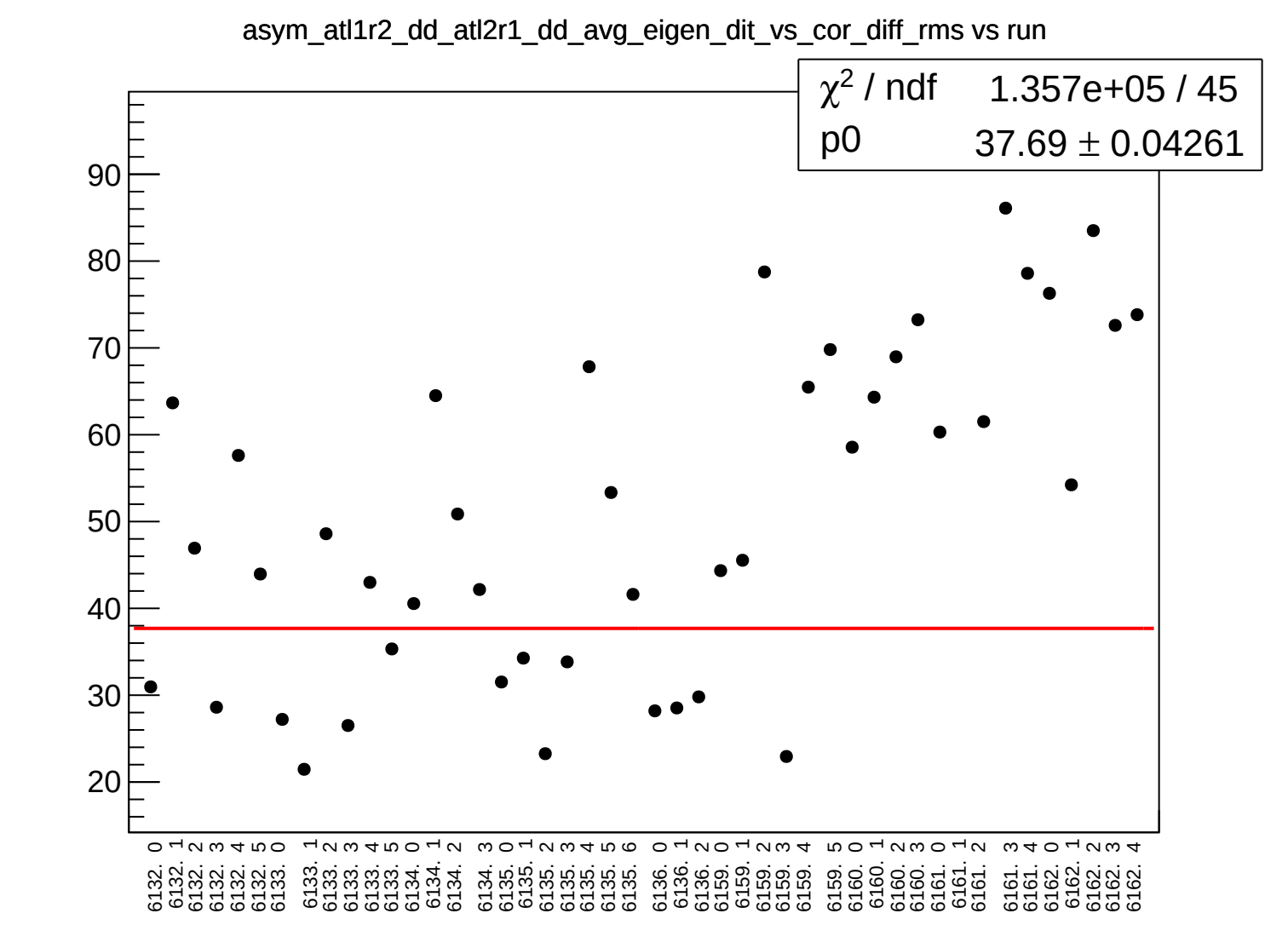

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.357e+05 / 45
p0 37.7 ± 0.04261
90
80
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

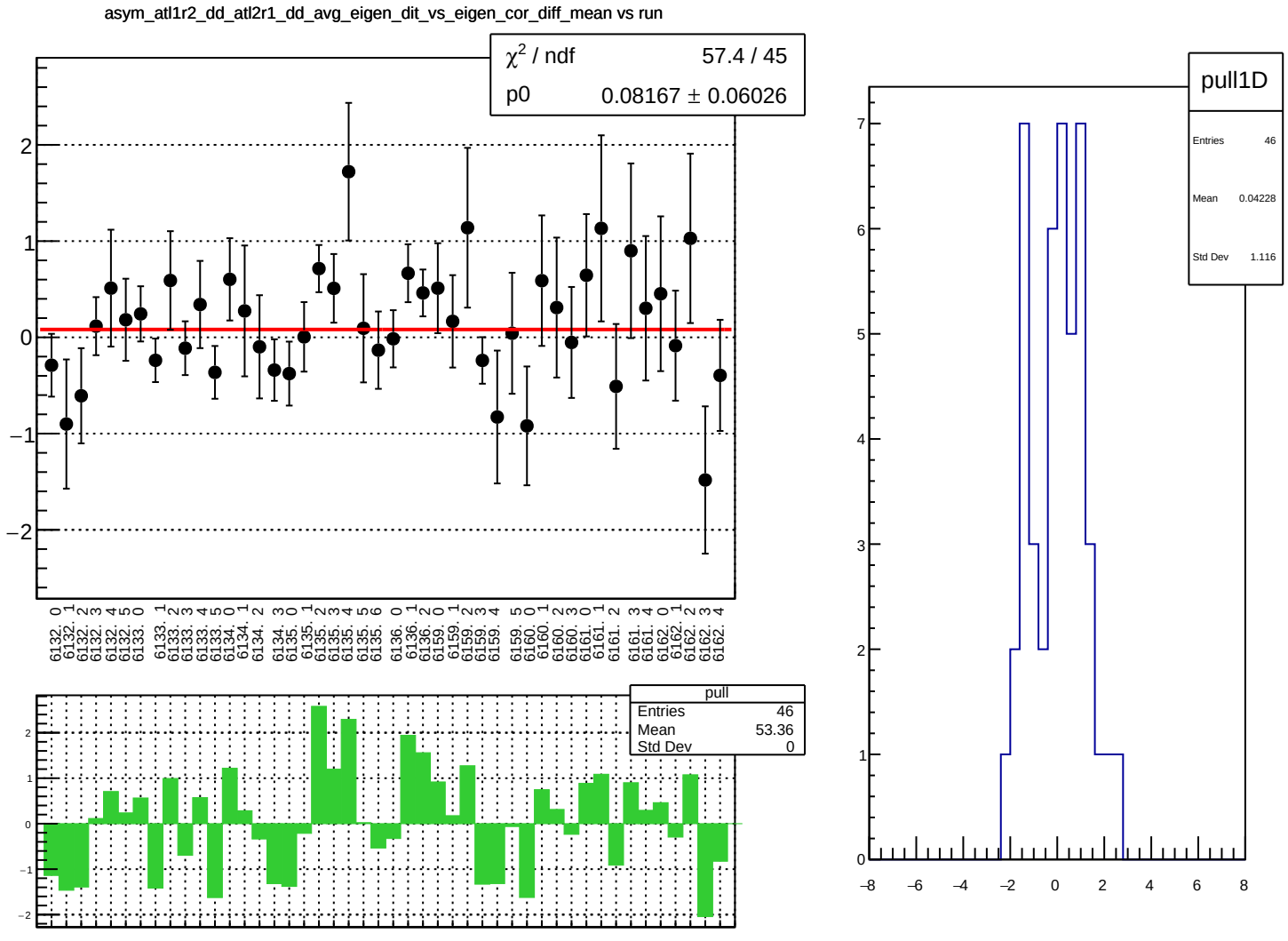

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 52.21 / 45
p0 −2.845e−07 ± 5.605e−06
pull
Entries 46
Mean −41.96
Std Dev 0

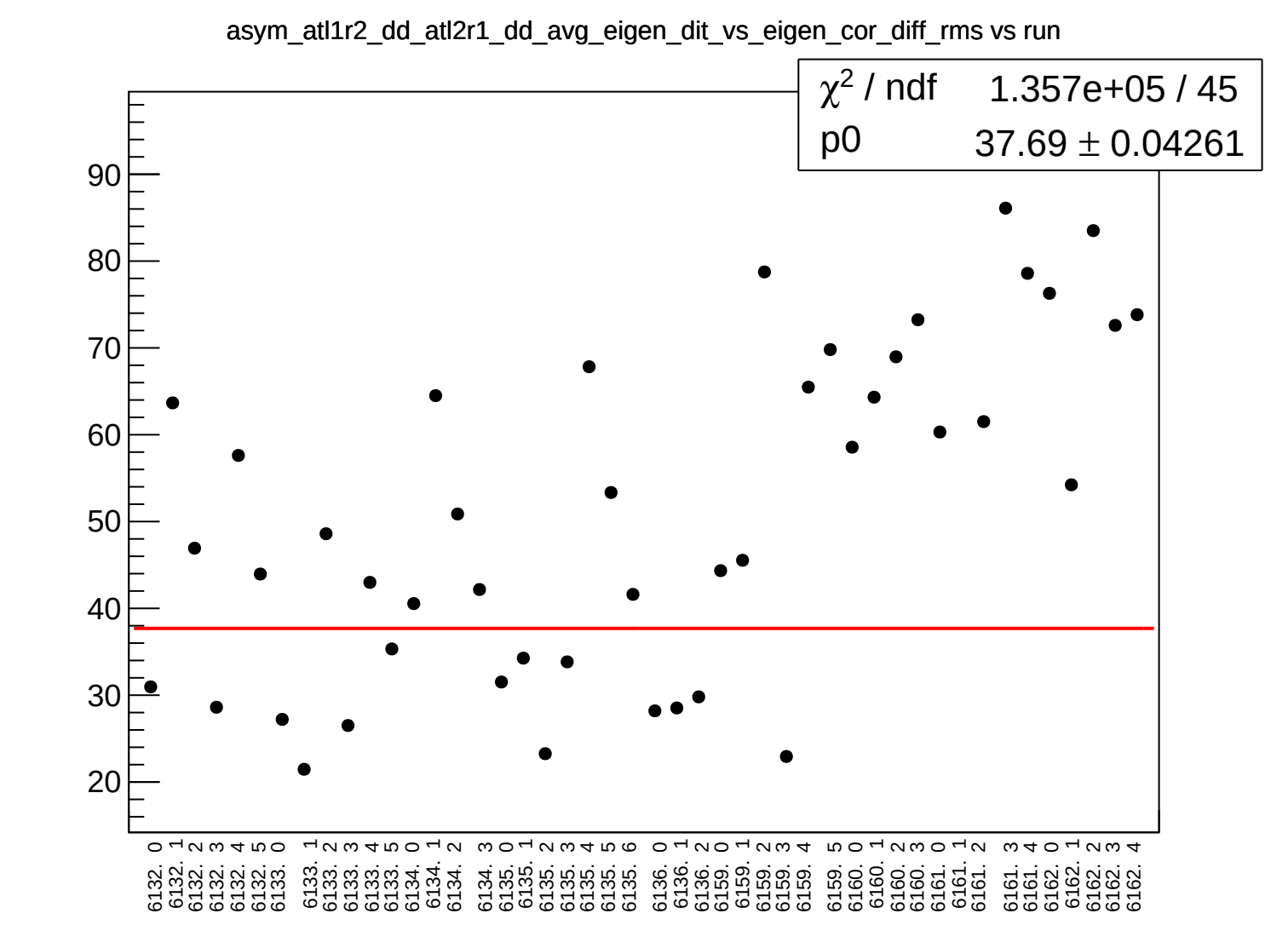

pull1D
Entries 46
Mean 0.07274
Std Dev 1.063

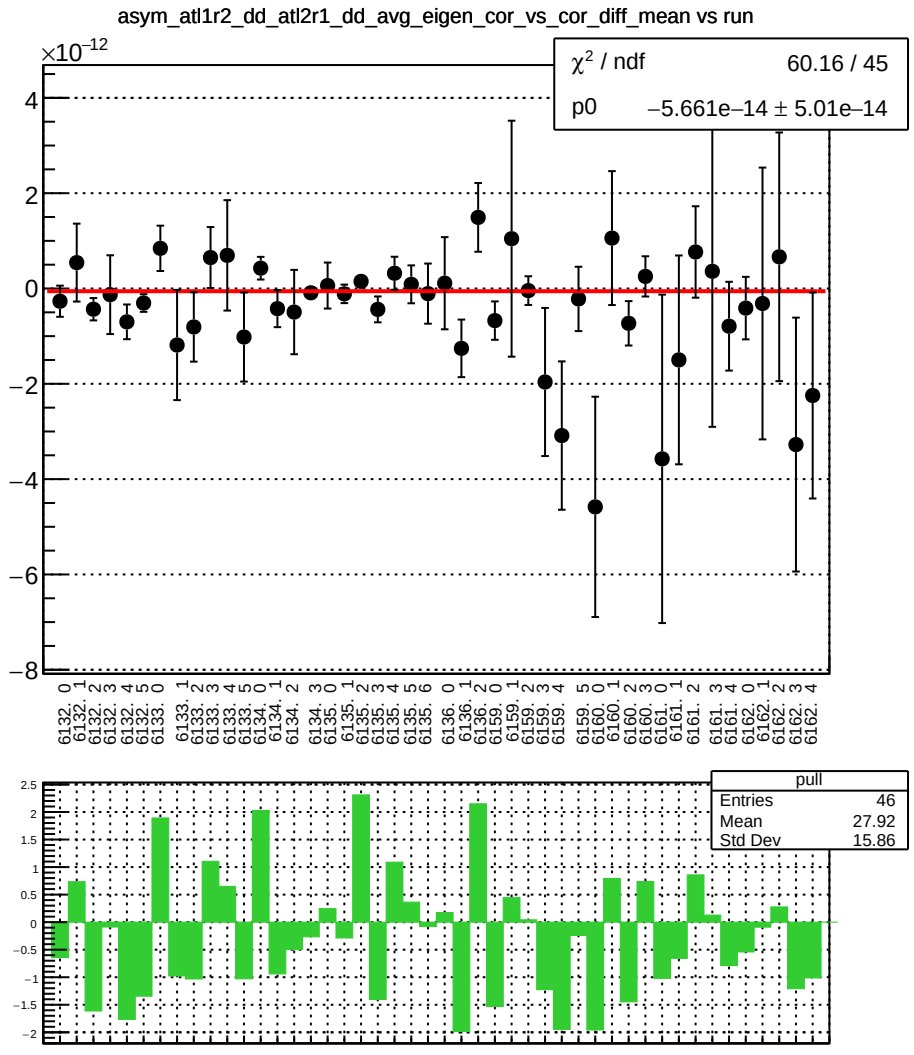

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.891e+04 / 45
p0 0.003738 ± 3.964e−06
0.005
0.0045
0.004
0.0035
0.003
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

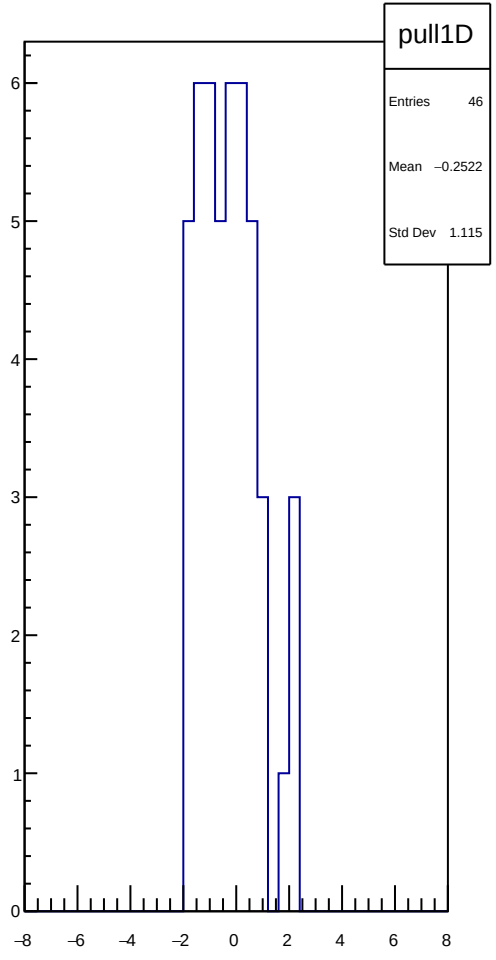

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 57.4 / 45
p0 0.08167 ± 0.06026
pull
Entries 46
Mean 53.36
Std Dev 0
pull1D
Entries 46
Mean 0.04228
Std Dev 1.116

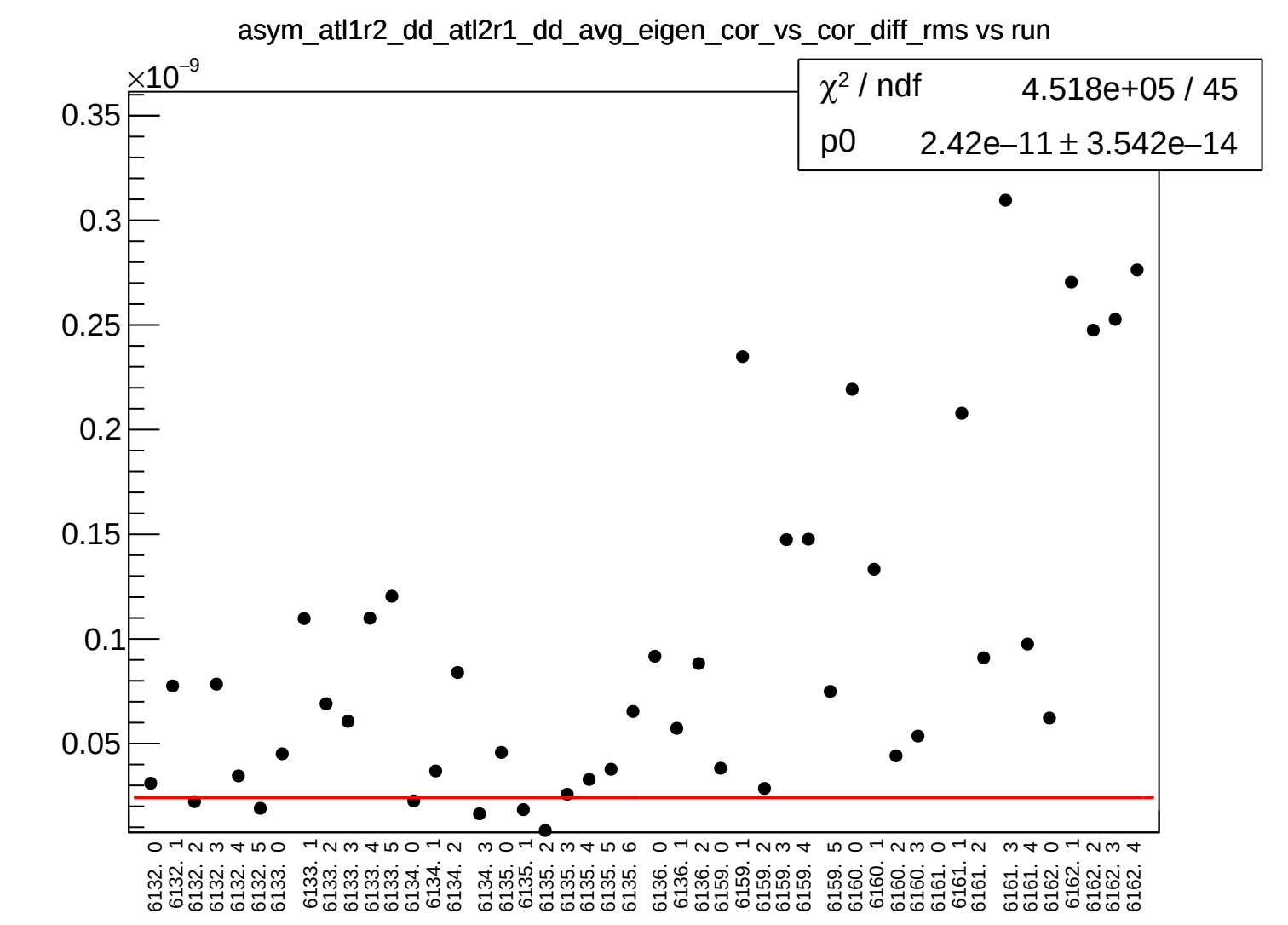

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.357e+05 / 45
p0 37.69 ± 0.04261
90
80
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.4 / 45
p0 0.08167 ± 0.06026
pull
Entries 46
Mean 53.36
Std Dev 0
pull1D
Entries 46
Mean 0.04228
Std Dev 1.116


asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.357e+05 / 45
p0 37.69 ± 0.04261
90
80
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 60.16 / 45
p0 −5.661e−14 ± 5.01e−14
pull
Entries 46
Mean 27.92
Std Dev 15.86


pull1D
Entries 46
Mean −0.2522
Std Dev 1.115


asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.518e+05 / 45
p0 2.42e−11 ± 3.542e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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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
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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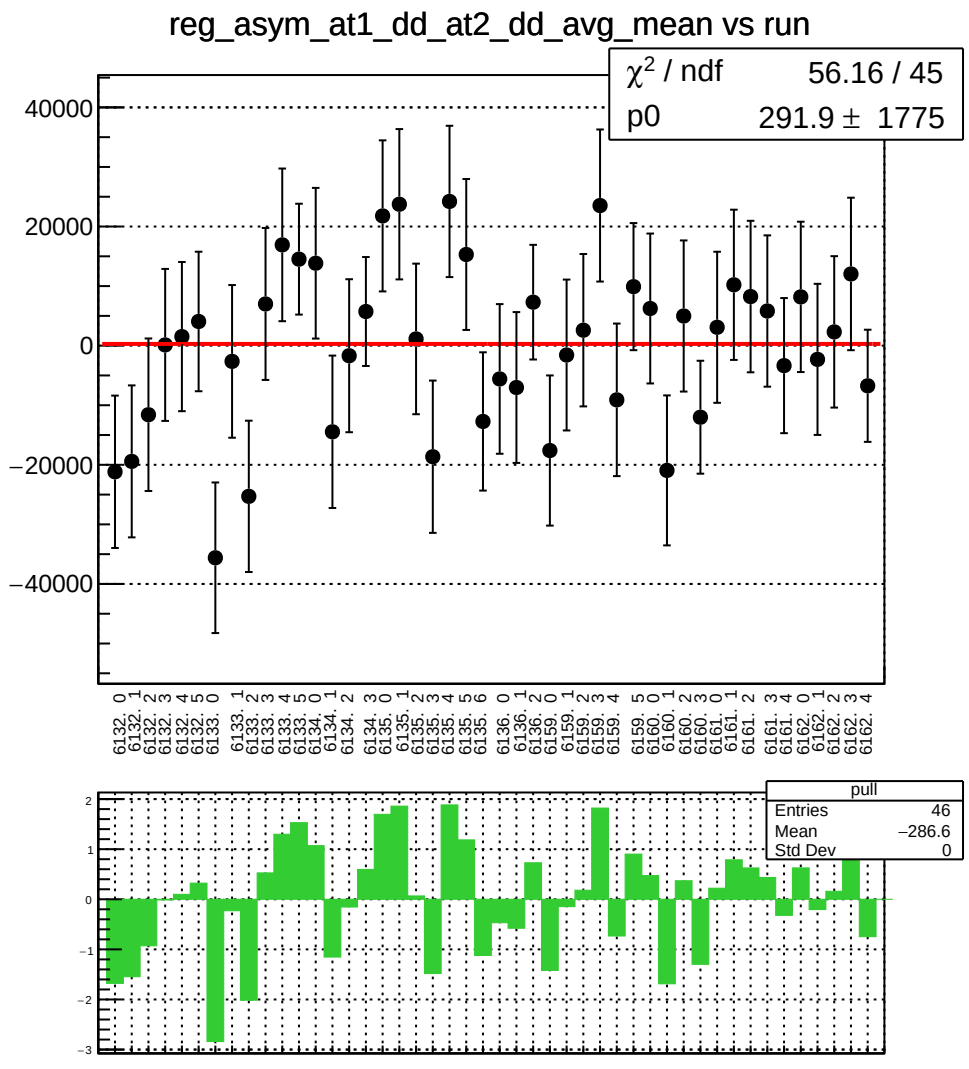
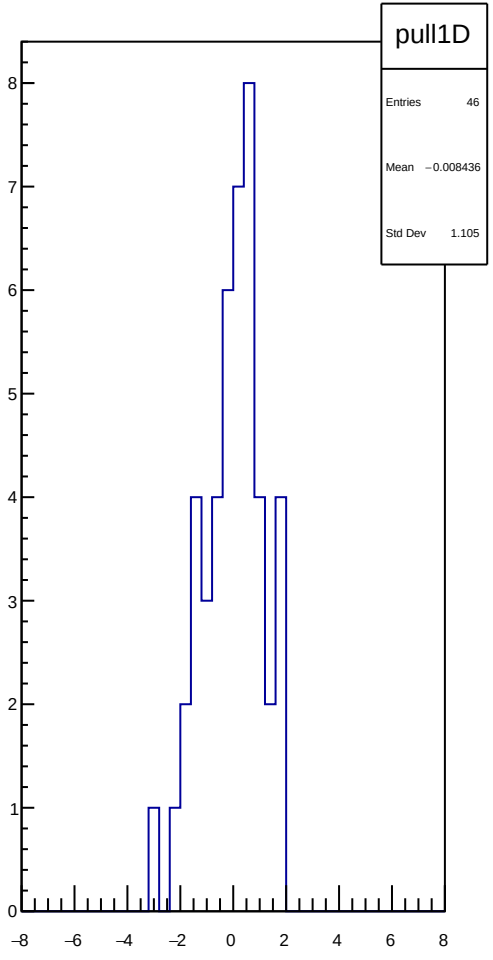
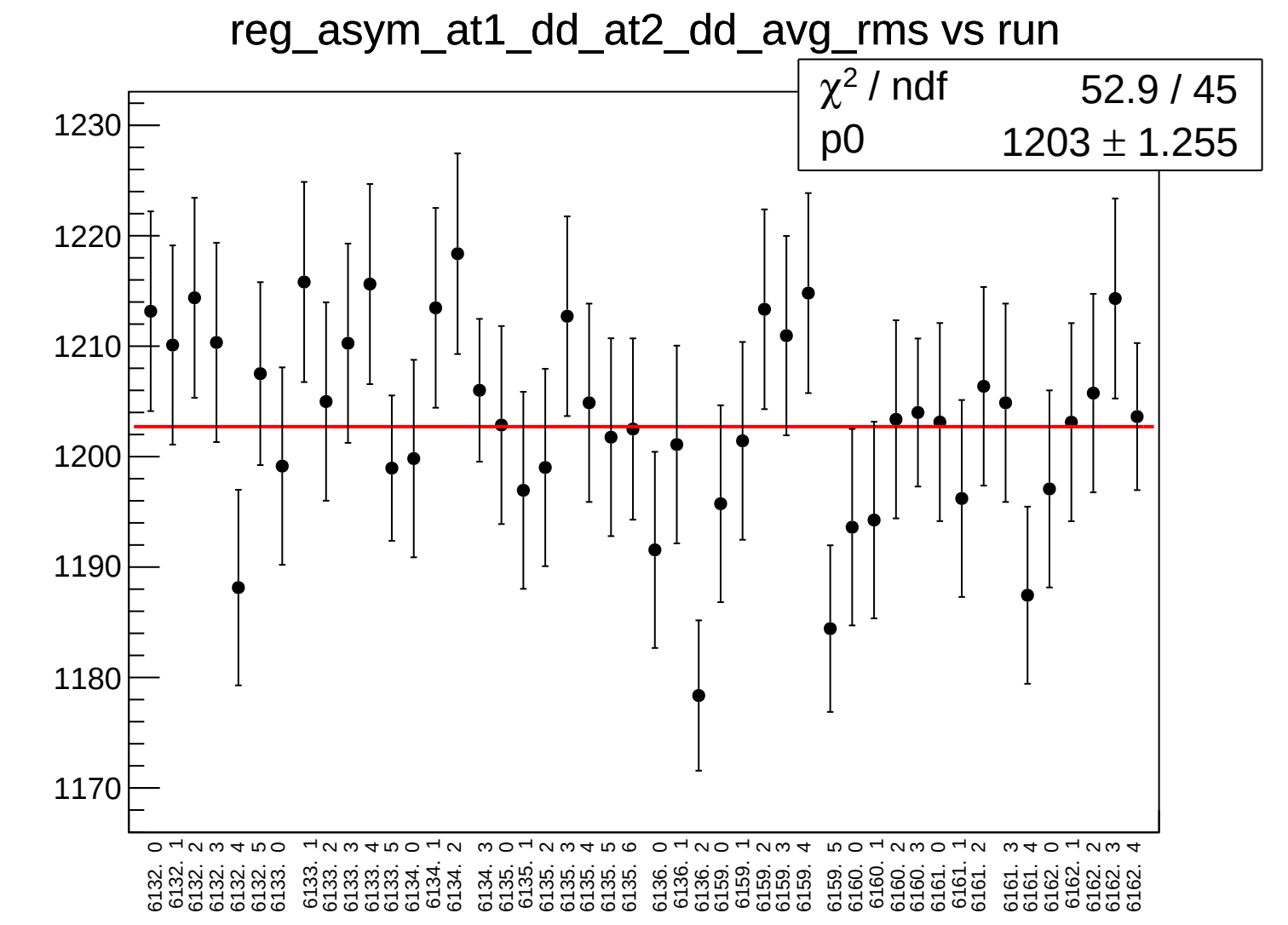
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 56.16 / 45
p0 291.9 ± 1775
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −286.6
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean −0.008436
Std Dev 1.105
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 52.9 / 45
p0 1203 ± 1.255
1230
1220
1210
1200
1190
1180
1170
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 2
6133. 3
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6134. 2
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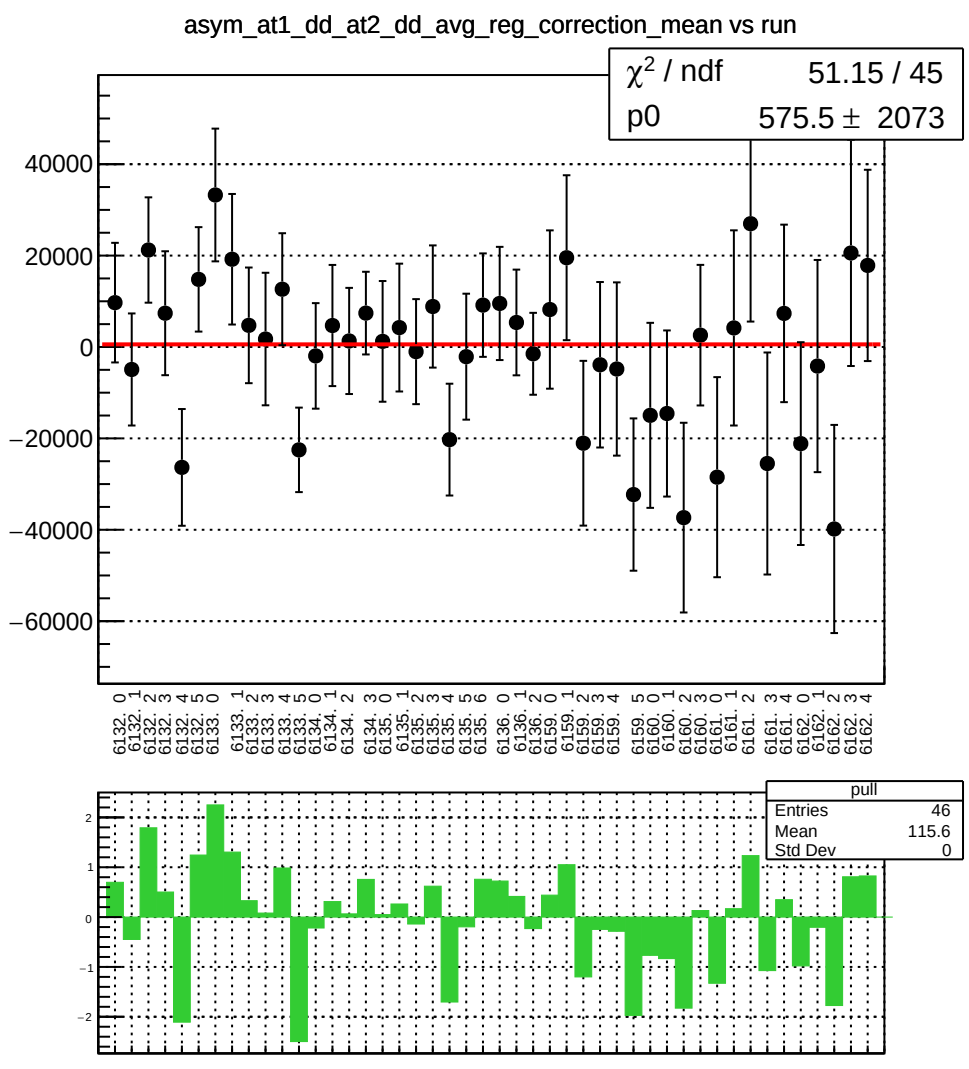
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 51.15 / 45
p0 575.5 ± 2073
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
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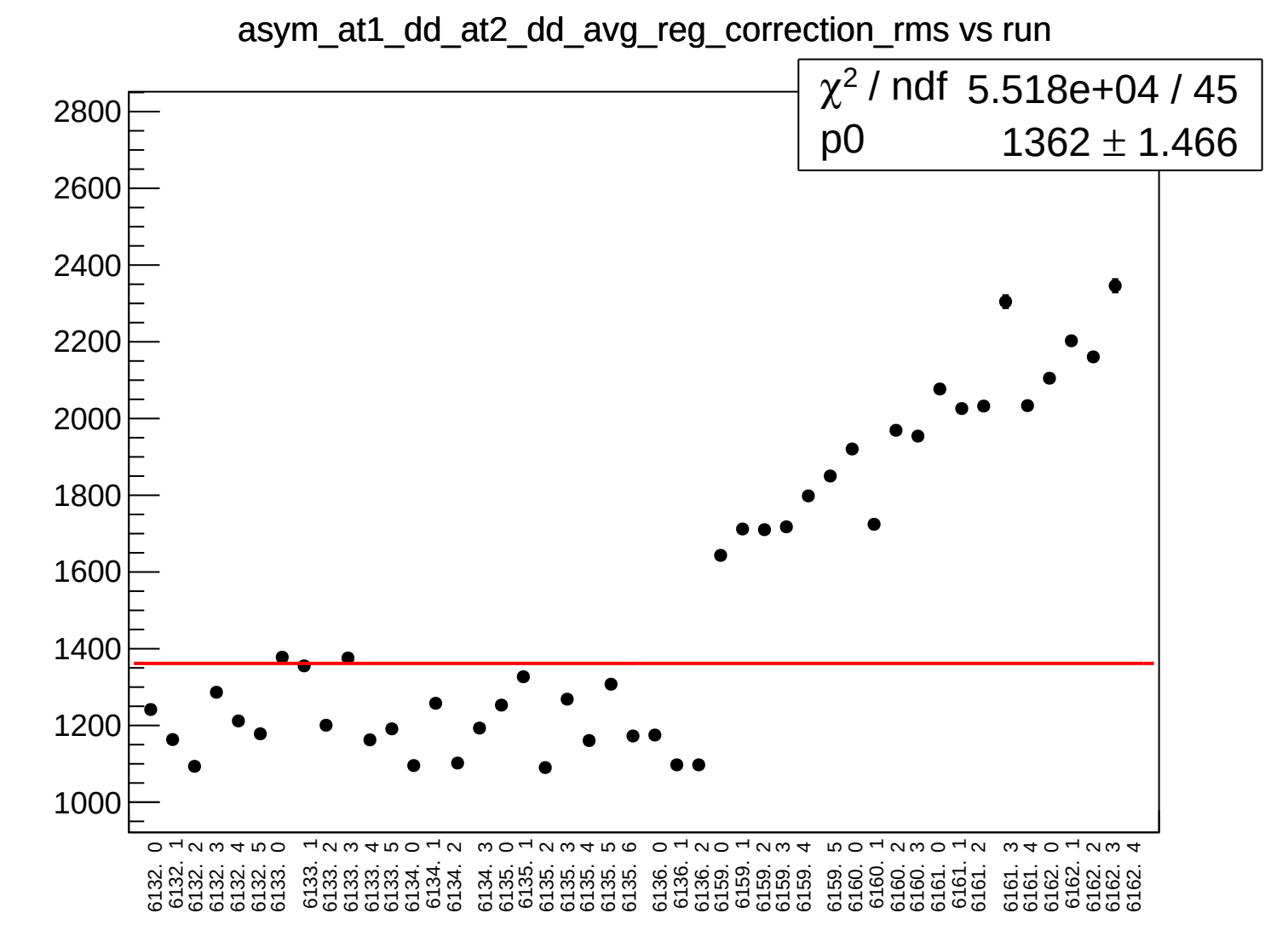
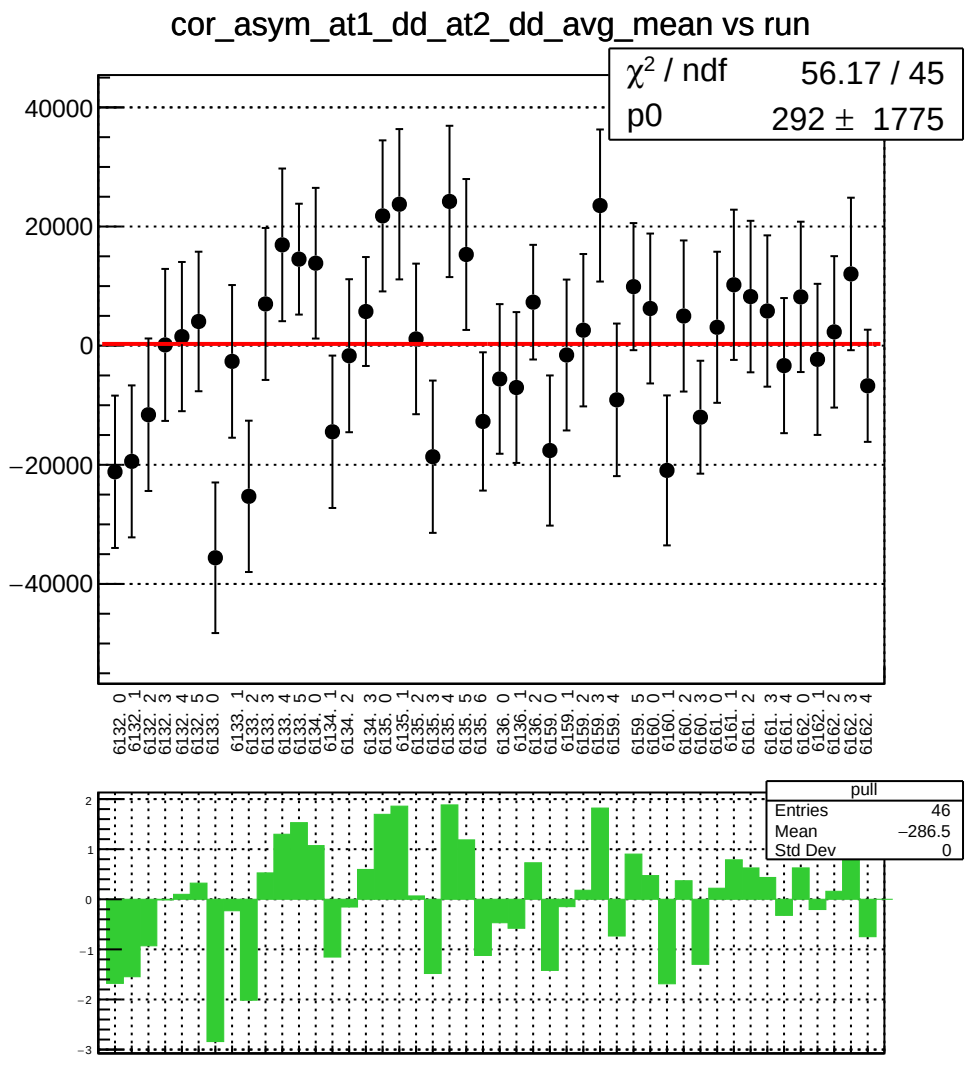
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 115.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.04097
Std Dev 1.054
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 5.518e+04 / 45
p0 1362 ± 1.466
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 56.17 / 45
p0 292 ± 1775
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
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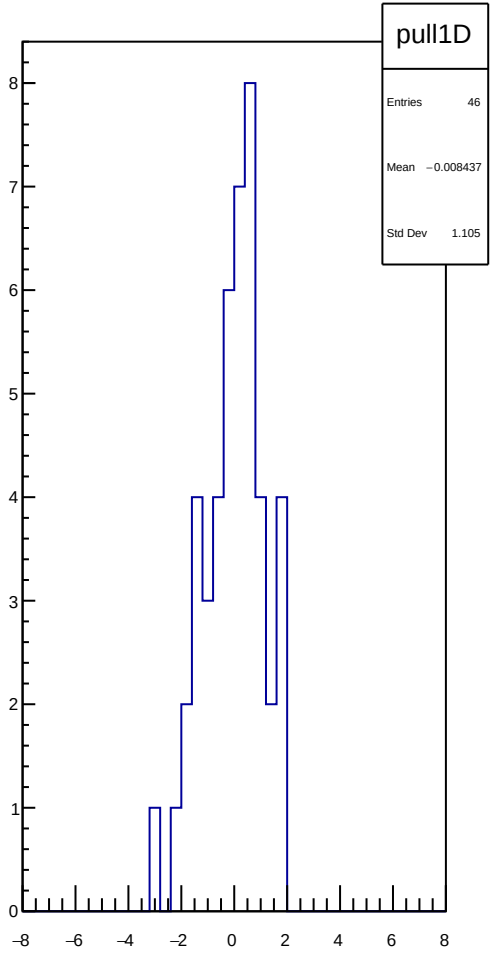
6162. 4
pull
Entries 46
Mean −286.5
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean −0.008437
Std Dev 1.105
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7
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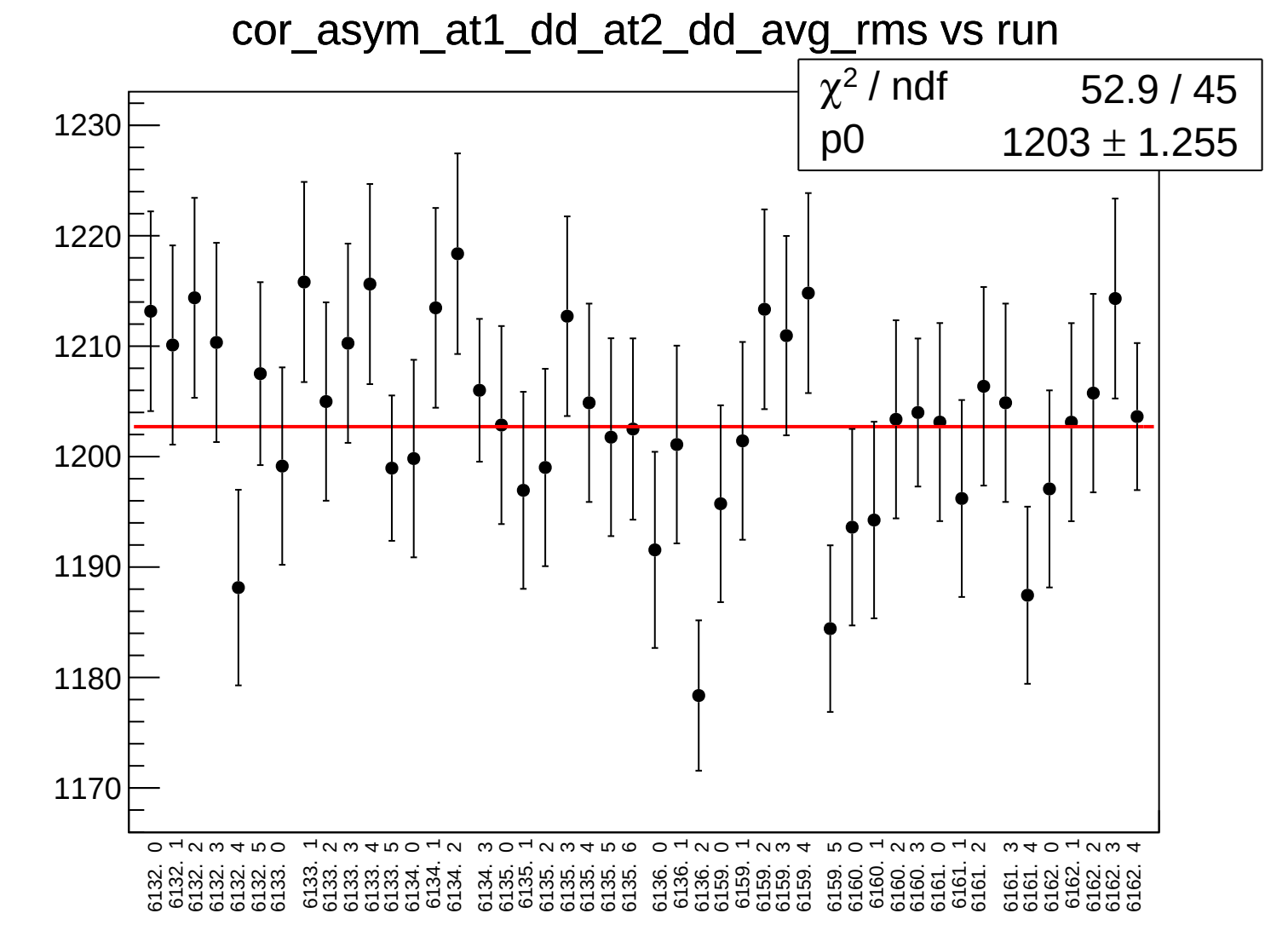
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 52.9 / 45
p0 1203 ± 1.255
1230
1220
1210
1200
1190
1180
1170
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 3
6133. 4
6133. 5
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6134. 3
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
6159. 0
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6162. 0
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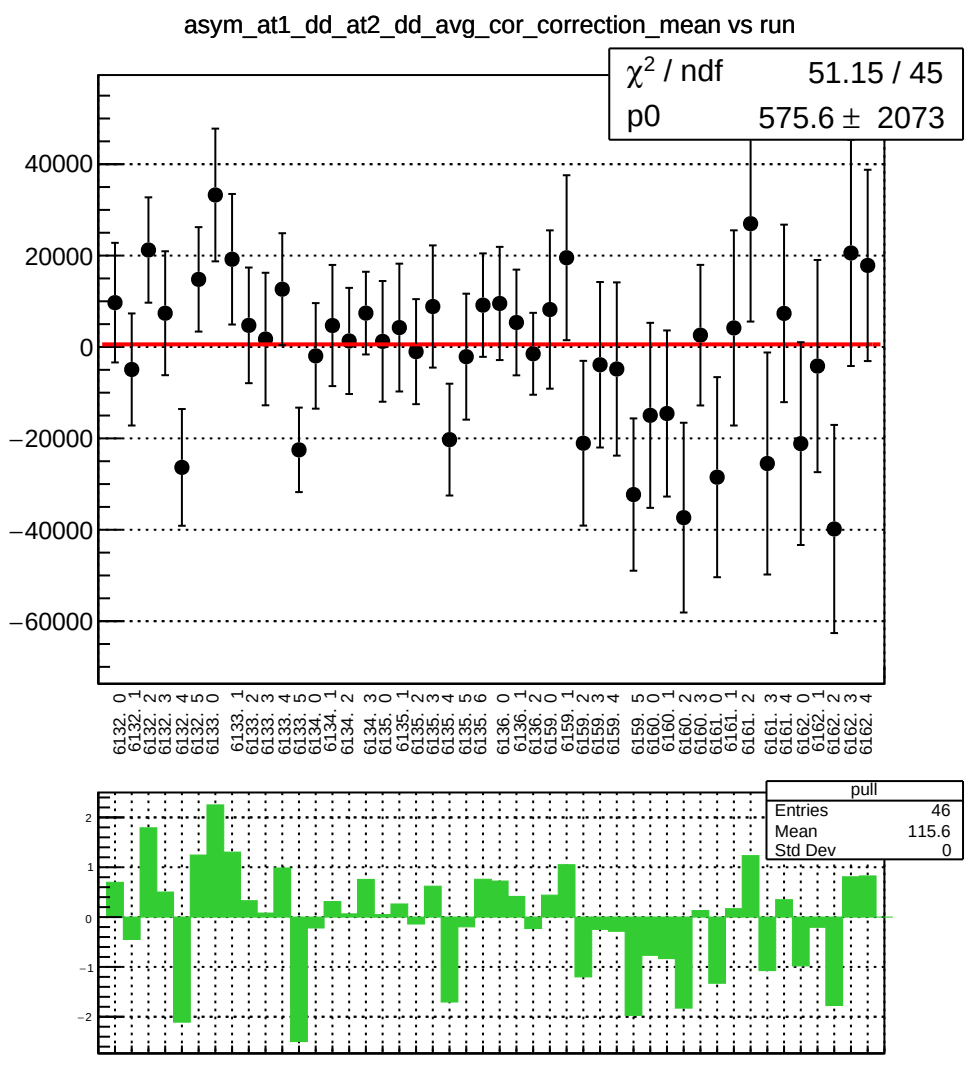
6162. 3
6162. 4


asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 51.15 / 45
p0 575.6 ± 2073
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
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6135. 5
6135. 6
6136. 0
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6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
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6160. 2
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6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
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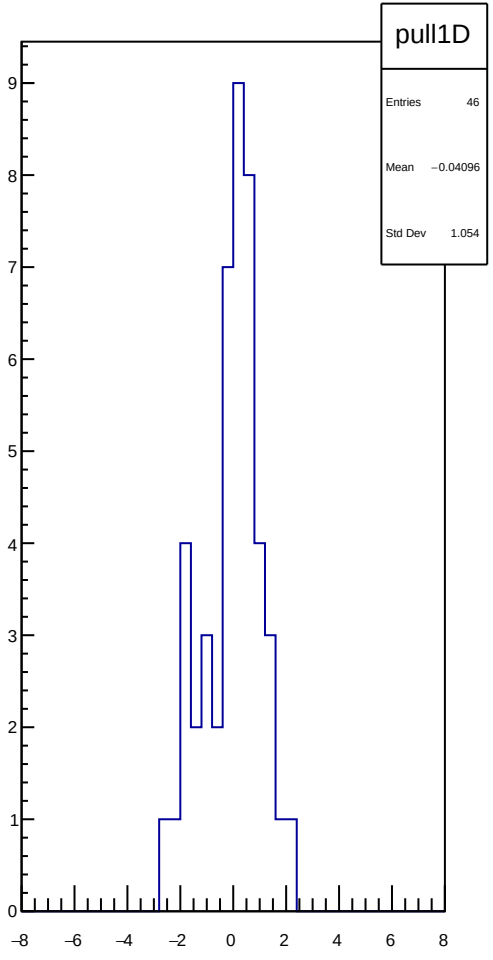
6162. 3
6162. 4
pull
Entries 46
Mean 115.6
Std Dev 0
2
1
0
−1
−2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Entries 46
Mean −0.04096
Std Dev 1.054
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5
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3
2
1
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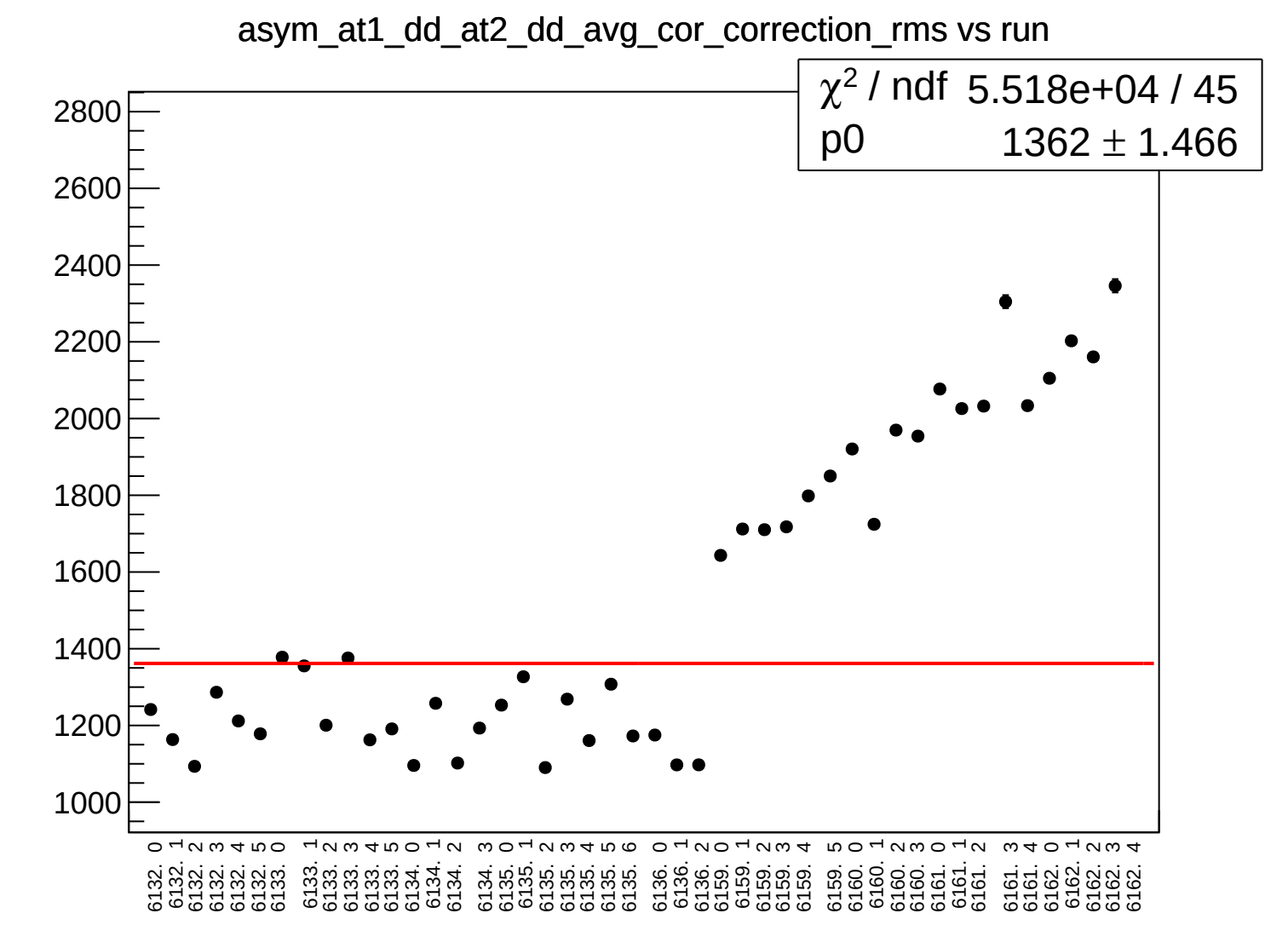
−6
−4
−2
0
2
4
6
8


asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 5.518e+04 / 45
p0 1362 ± 1.466
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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6135. 2
6135. 3
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6135. 6
6136. 0
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6136. 2
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6159. 2
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6160. 0
6160. 1
6160. 2
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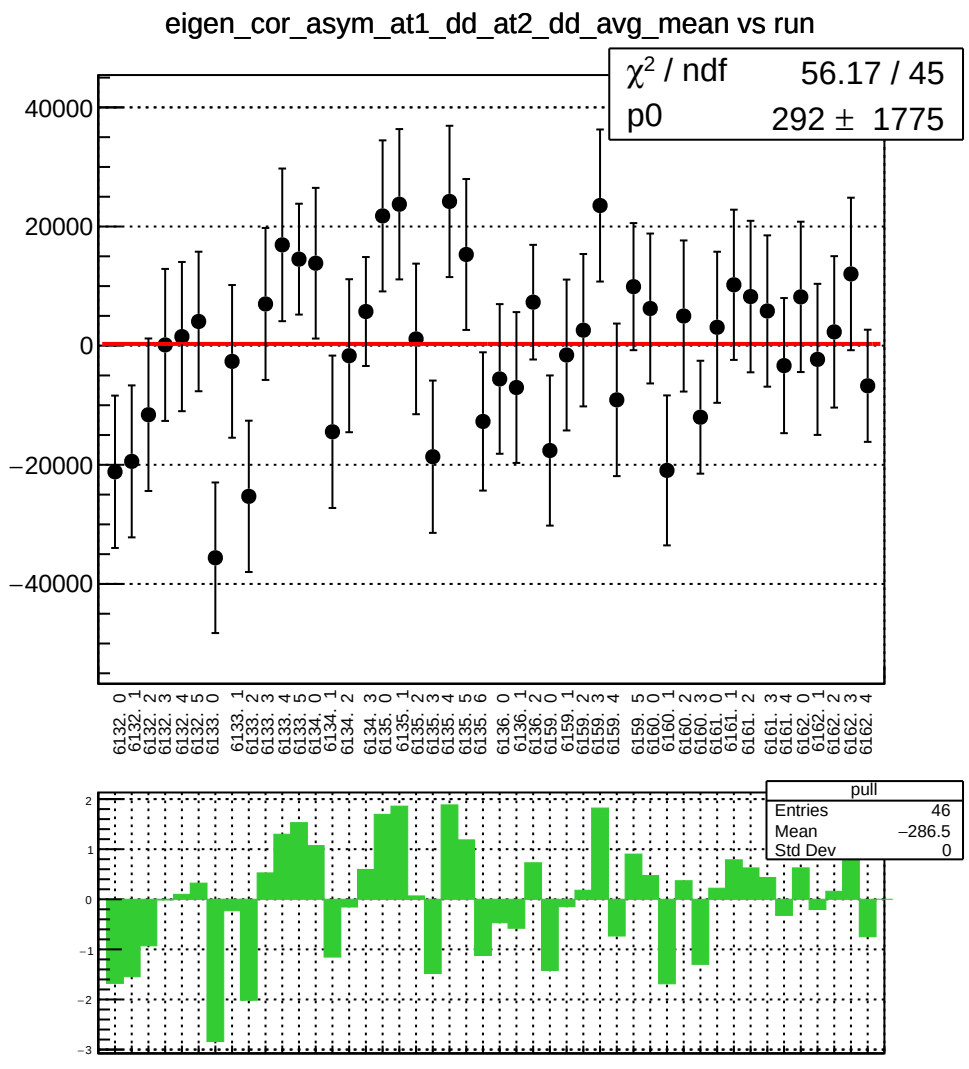
eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 56.17 / 45
p0 292 ± 1775
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6134. 0
6134. 1
6134. 2
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6136. 2
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pull
Entries 46
Mean −286.5
Std Dev 0
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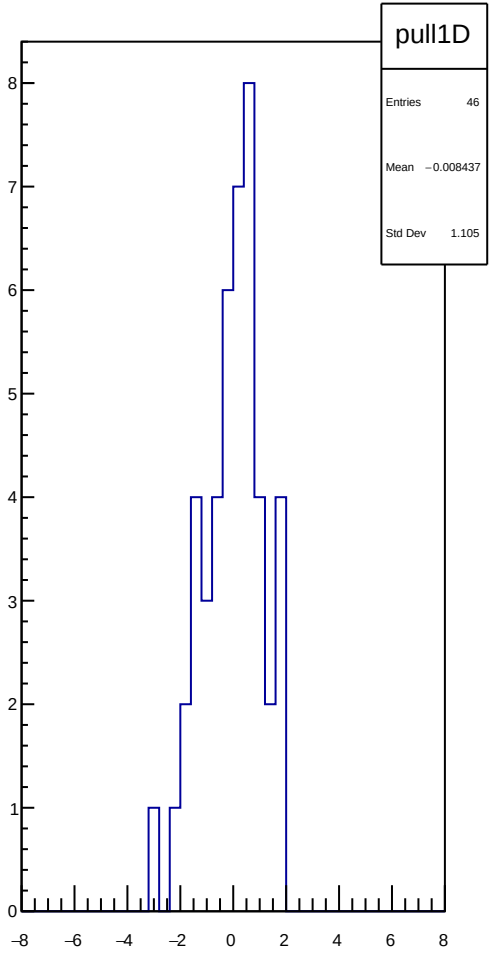
−1
−2
−3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Entries 46
Mean −0.008437
Std Dev 1.105
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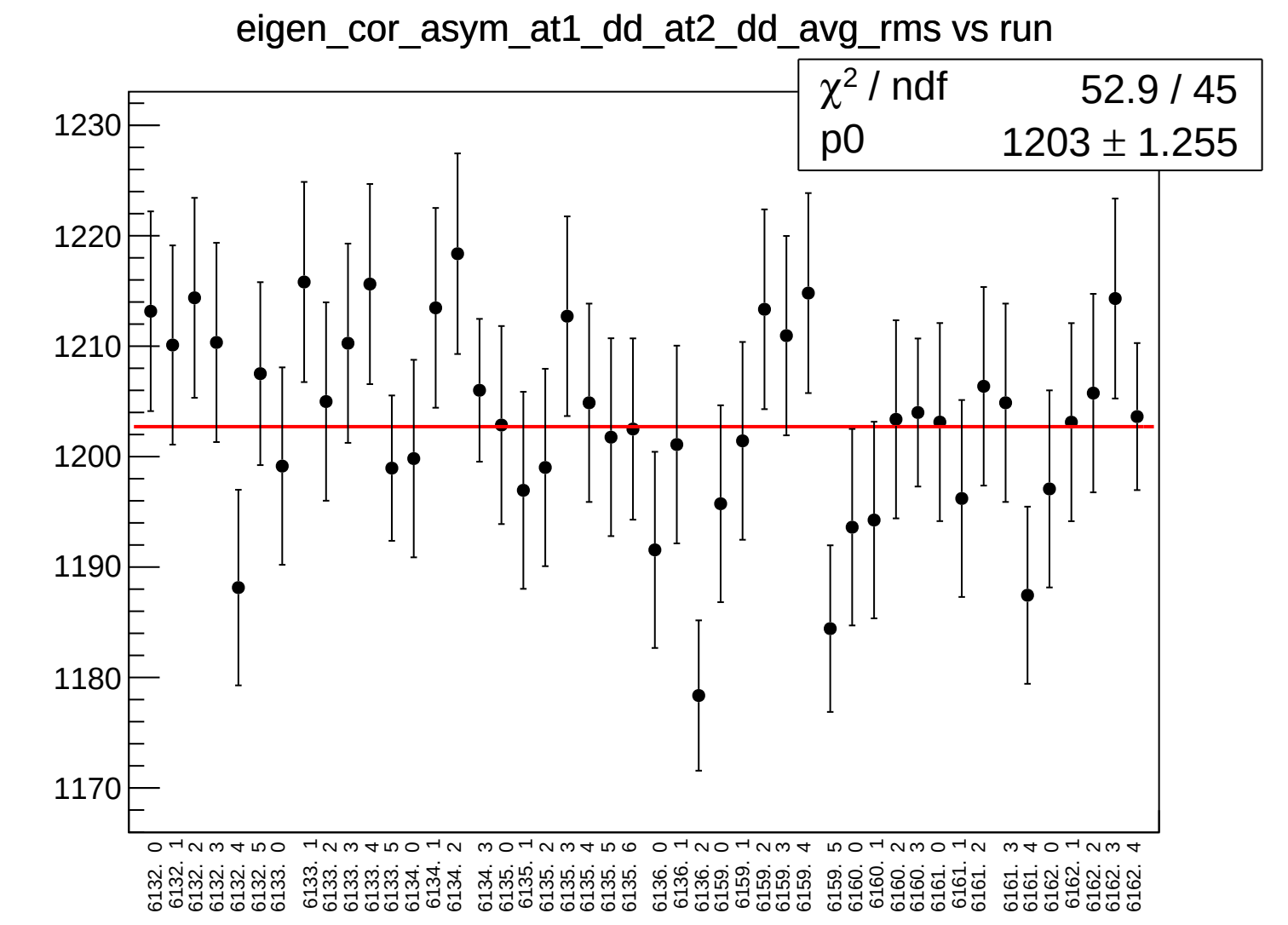
eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 52.9 / 45
p0 1203 ± 1.255
1230
1220
1210
1200
1190
1180
1170
6132. 0
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6132. 2
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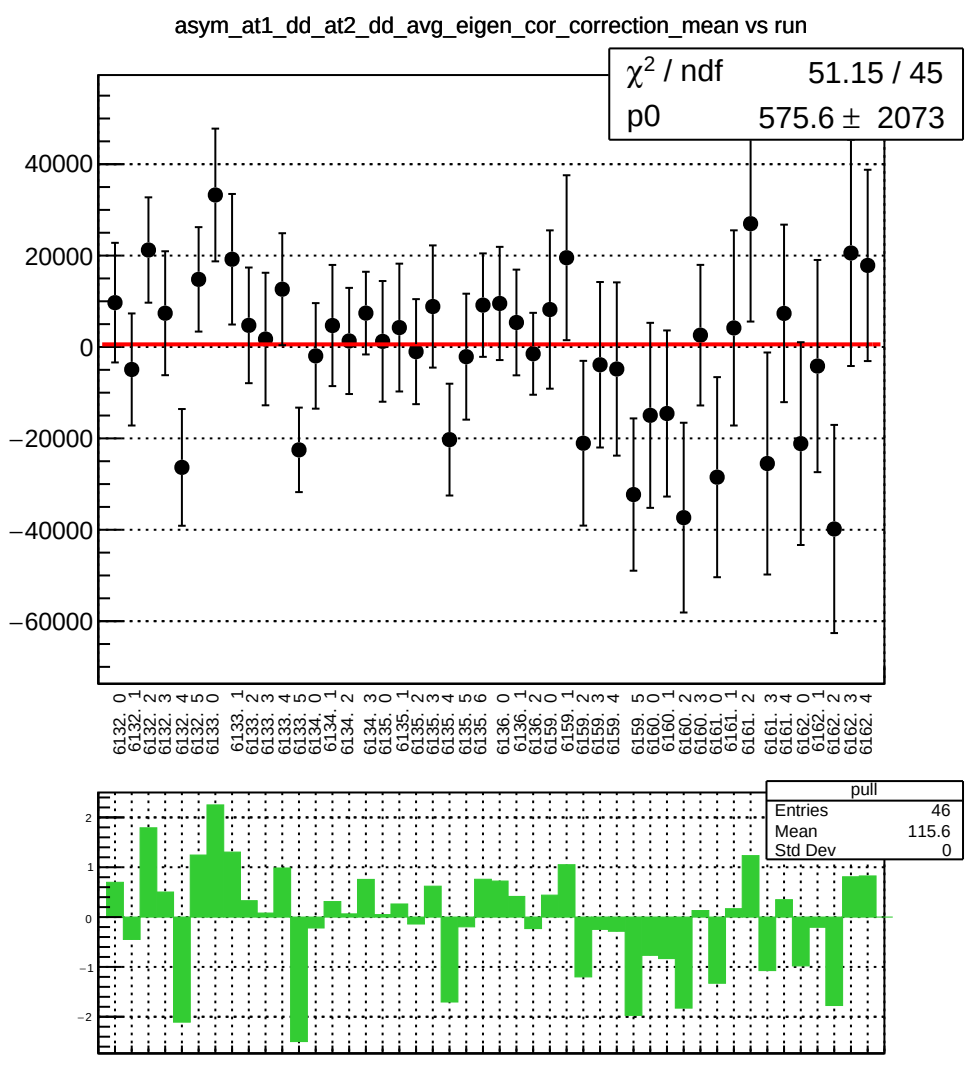
6162. 4


asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 51.15 / 45
p0 575.6 ± 2073
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 2
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6160. 2
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6161. 4
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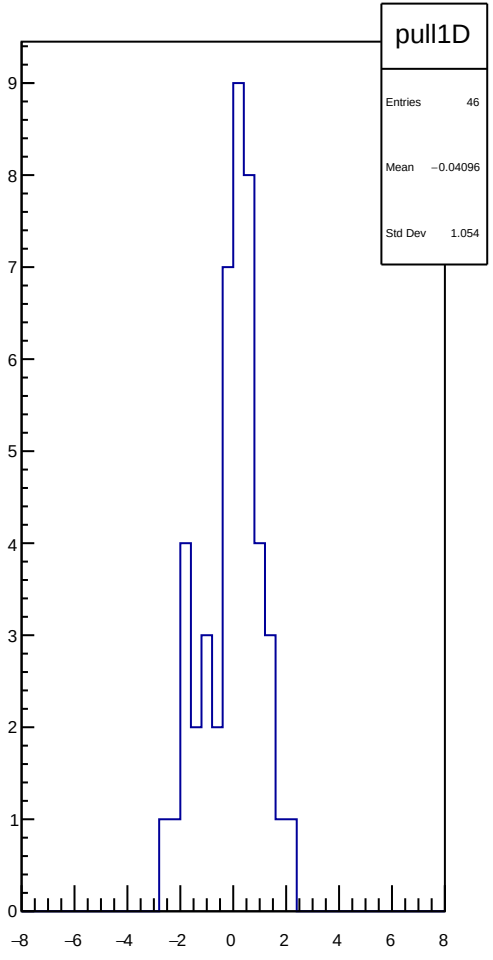
pull
Entries 46
Mean 115.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.04096
Std Dev 1.054
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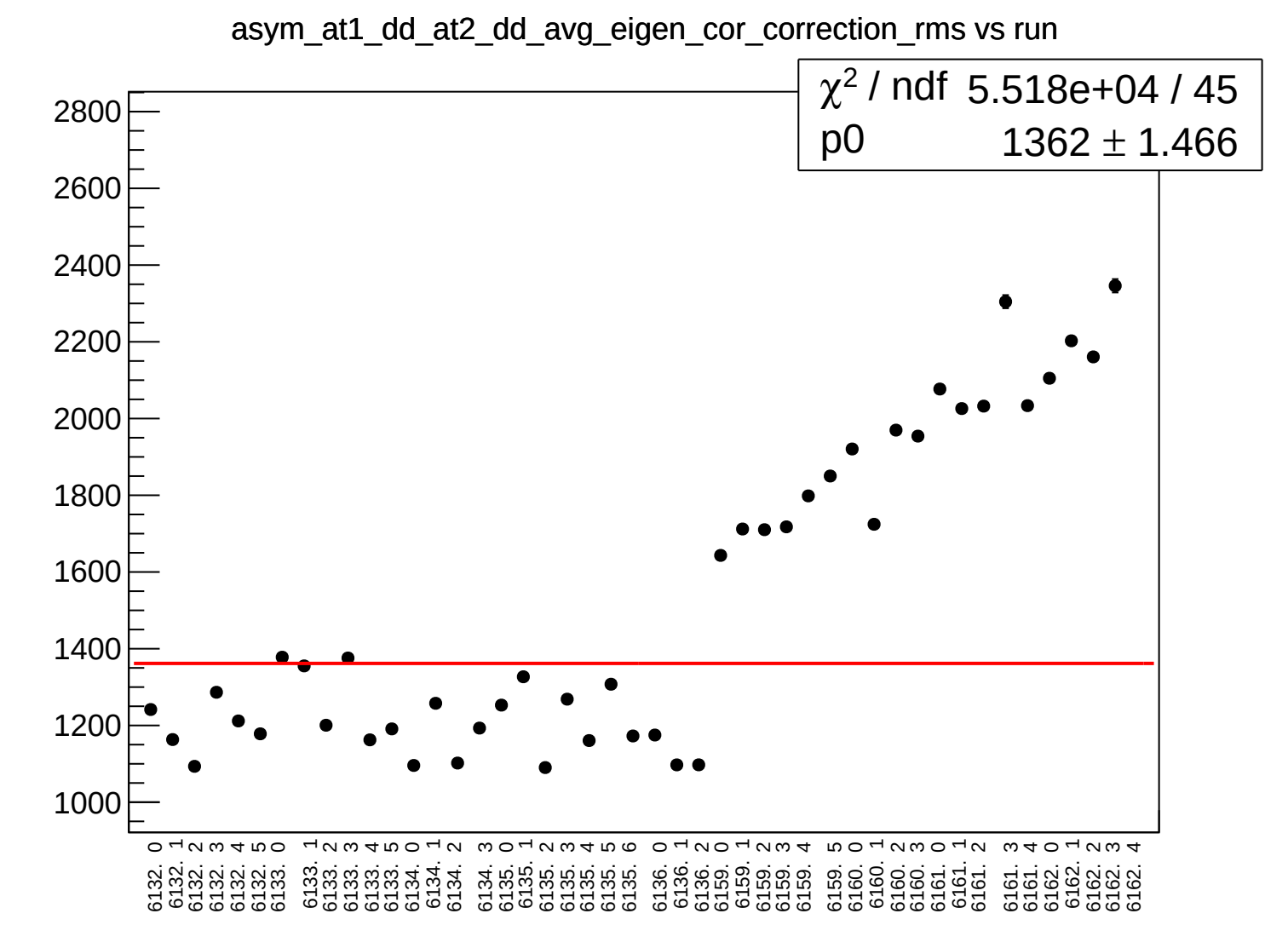
asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.518e+04 / 45
p0 1362 ± 1.466
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
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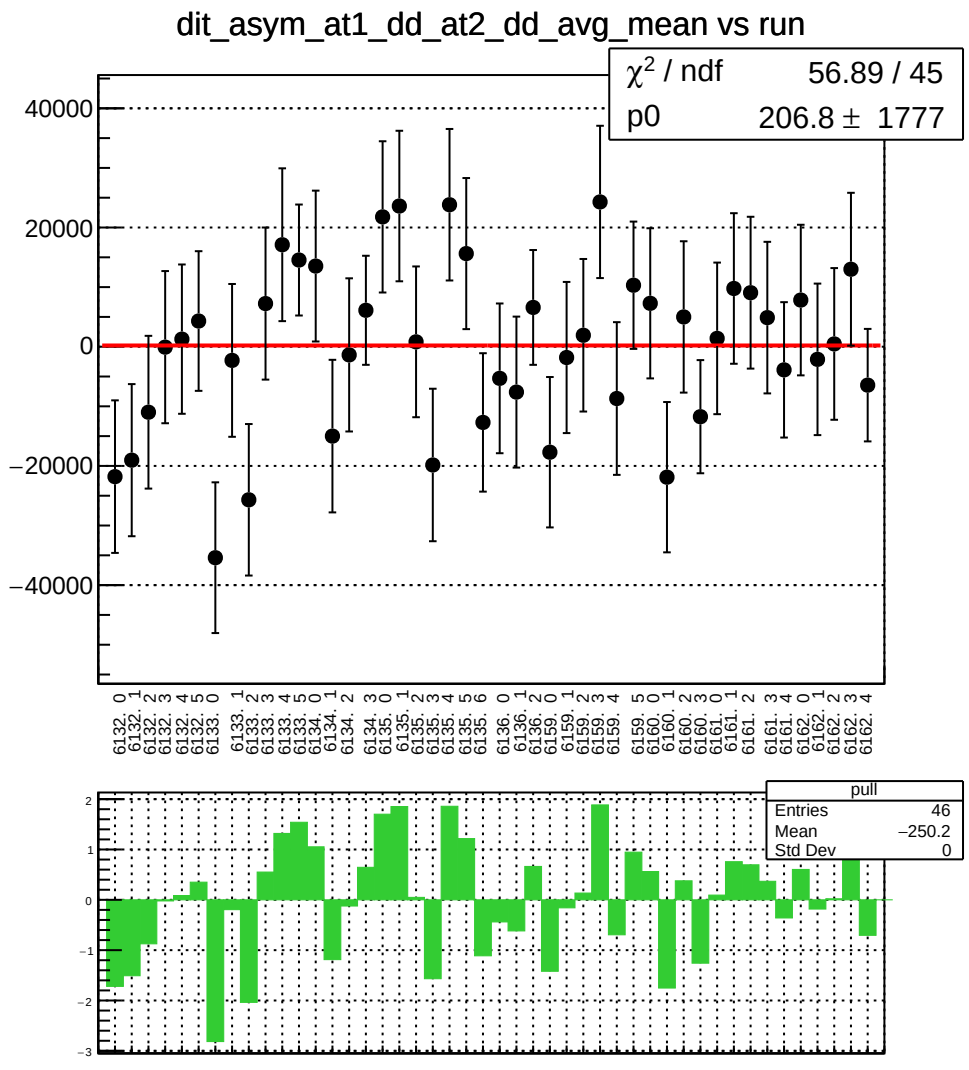
6162. 4


dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 56.89 / 45
p0 206.8 ± 1777
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20000
0
−20000
−40000
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6161. 0
6161. 1
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6161. 3
6161. 4
6162. 0
6162. 1
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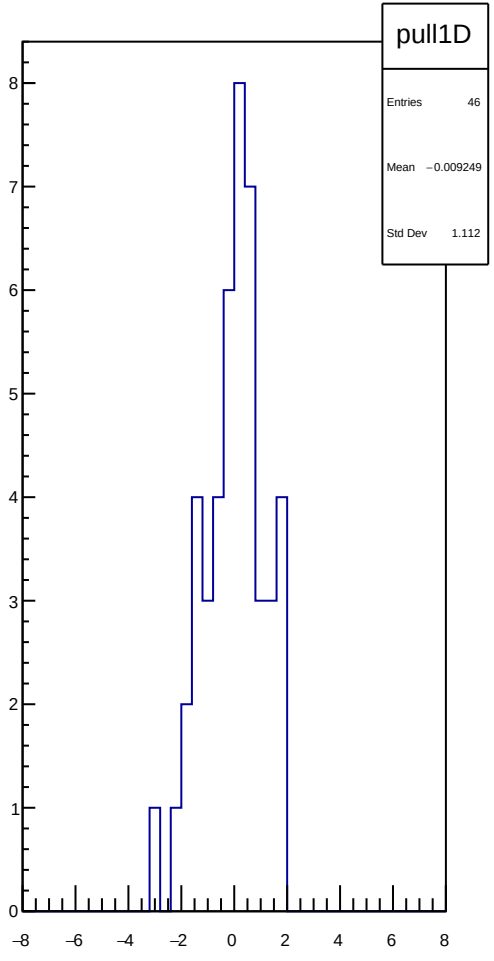
pull
Entries 46
Mean −250.2
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean −0.009249
Std Dev 1.112
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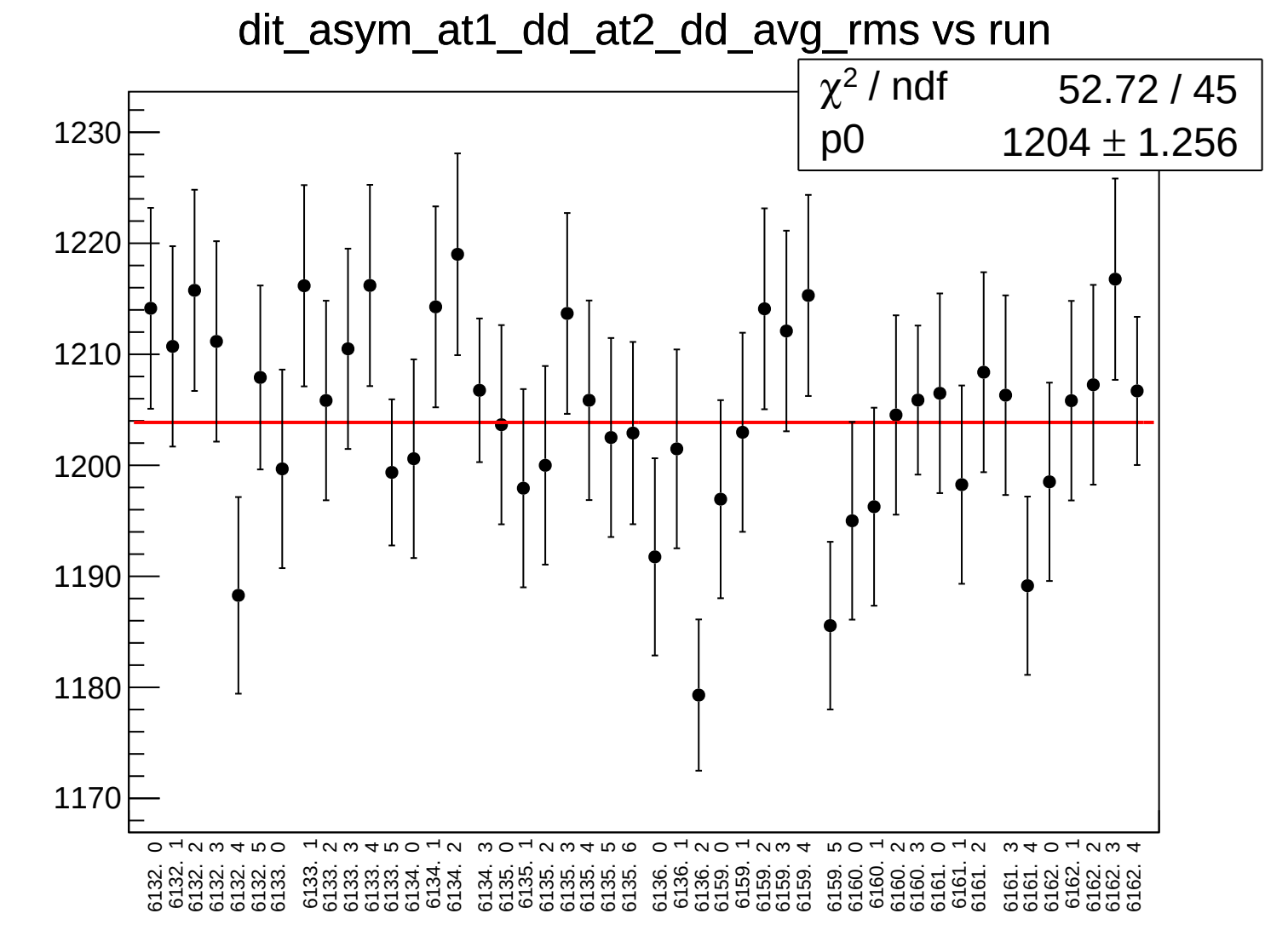
6
8


dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 52.72 / 45
p0 1204 ± 1.256
1230
1220
1210
1200
1190
1180
1170
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6160. 1
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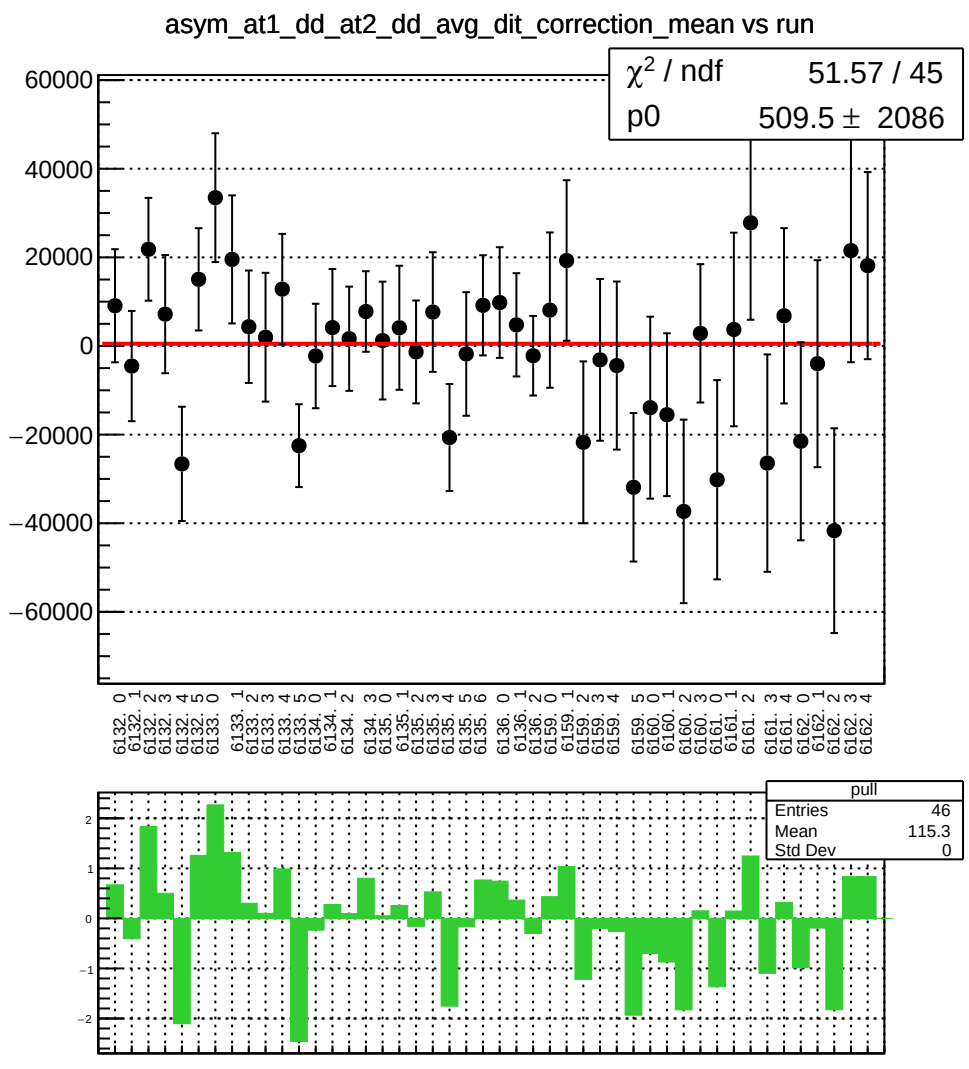
asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 51.57 / 45
p0 509.5 ± 2086
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
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6132. 4
6132. 5
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6133. 2
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6159. 3
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6160. 1
6160. 2
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6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 115.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.0418
Std Dev 1.058
10
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2
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−8
−6
−4
−2
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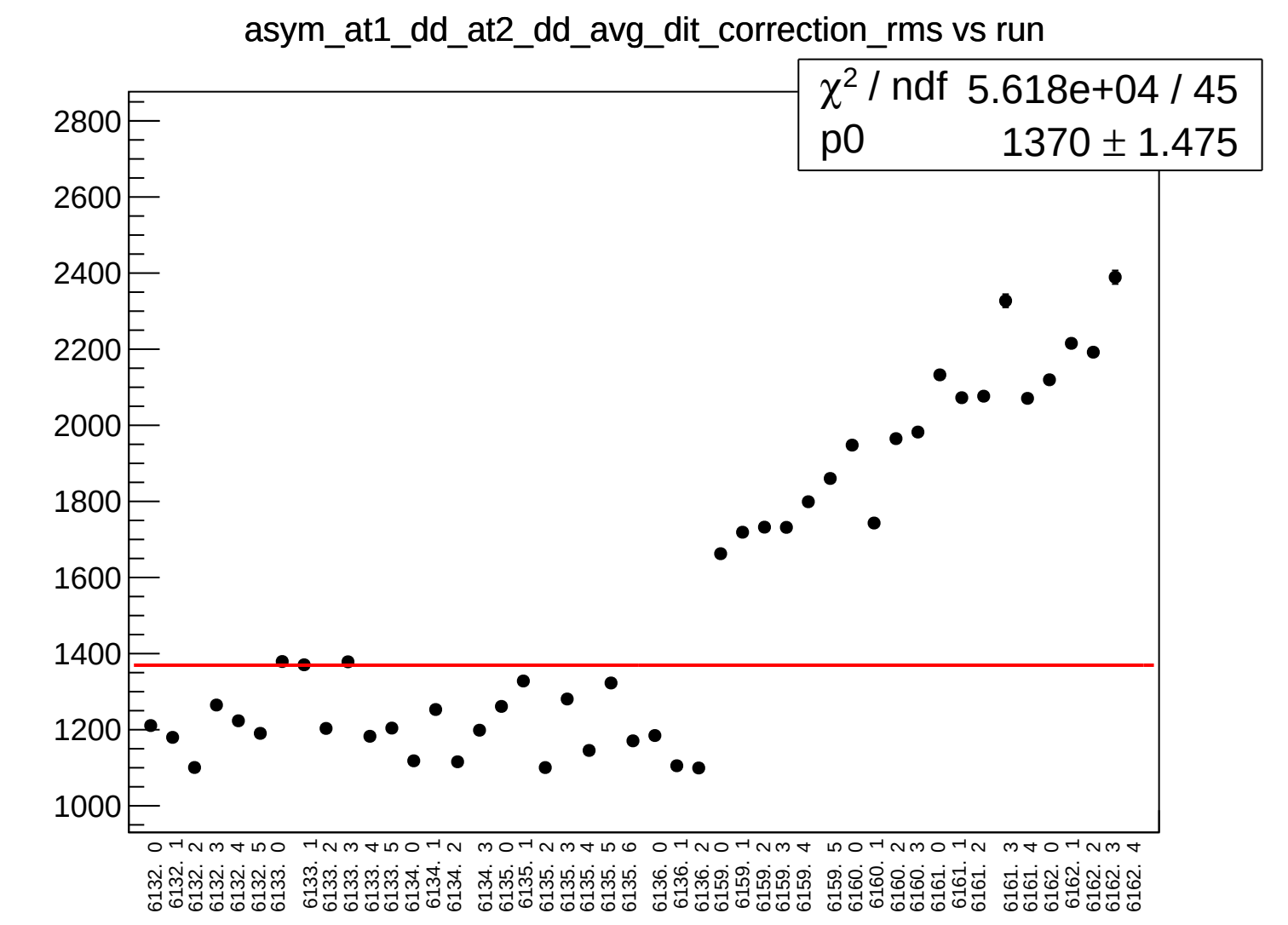
2
4
6
8


asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 5.618e+04 / 45
p0 1370 ± 1.475
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
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6135. 0
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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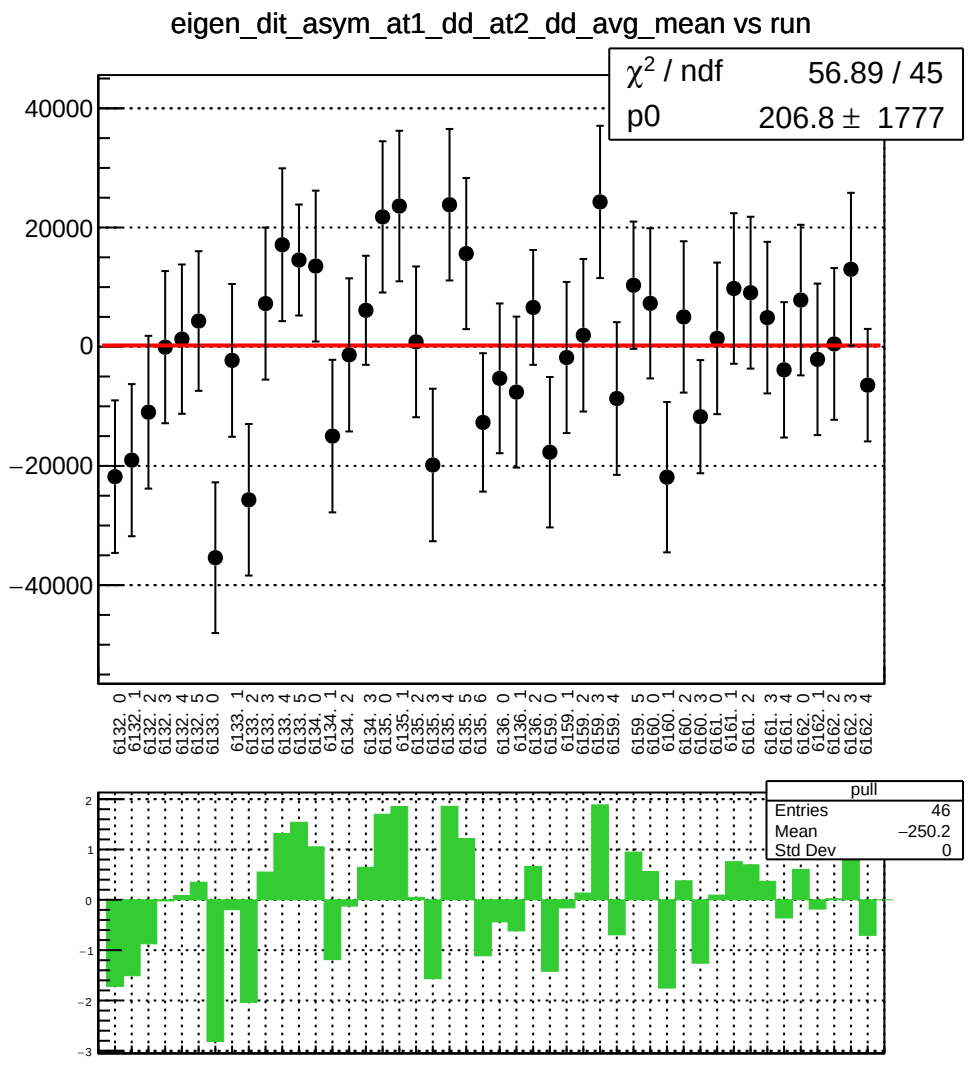
eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 56.89 / 45
p0 206.8 ± 1777
40000
20000
0
−20000
−40000
6132. 0
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6132. 3
6132. 4
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6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −250.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.00925
Std Dev 1.112
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7
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5
4
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−4
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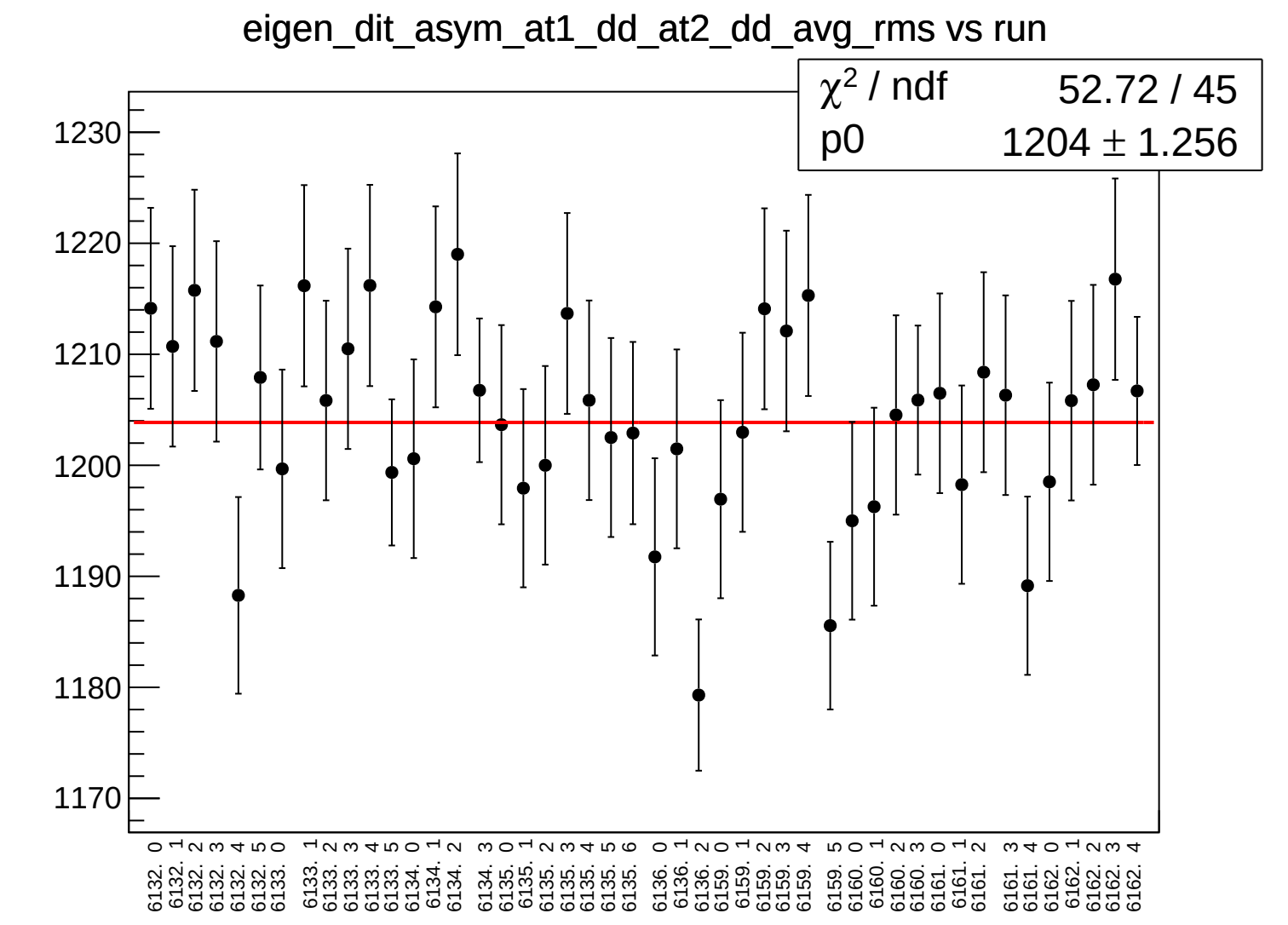
0
2
4
6
8


eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 52.72 / 45
p0 1204 ± 1.256
1230
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1200
1190
1180
1170
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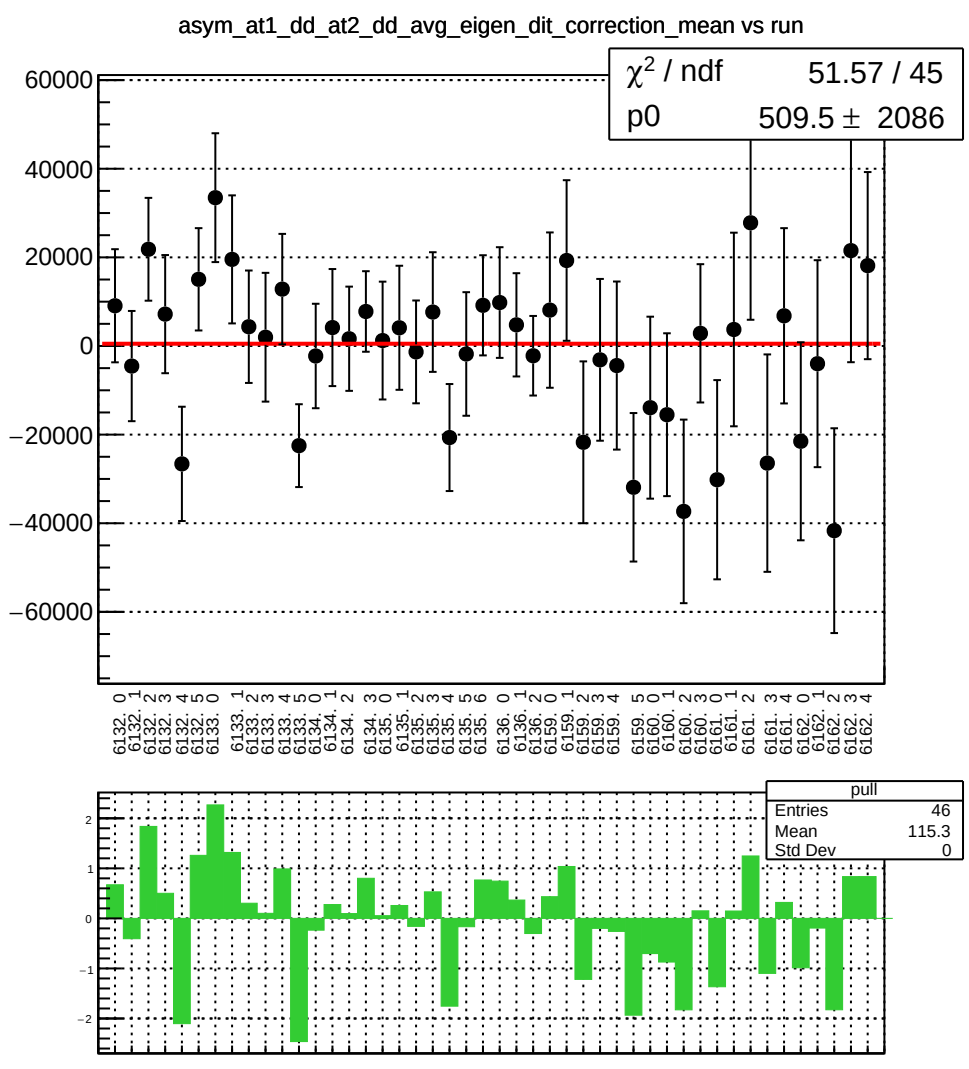
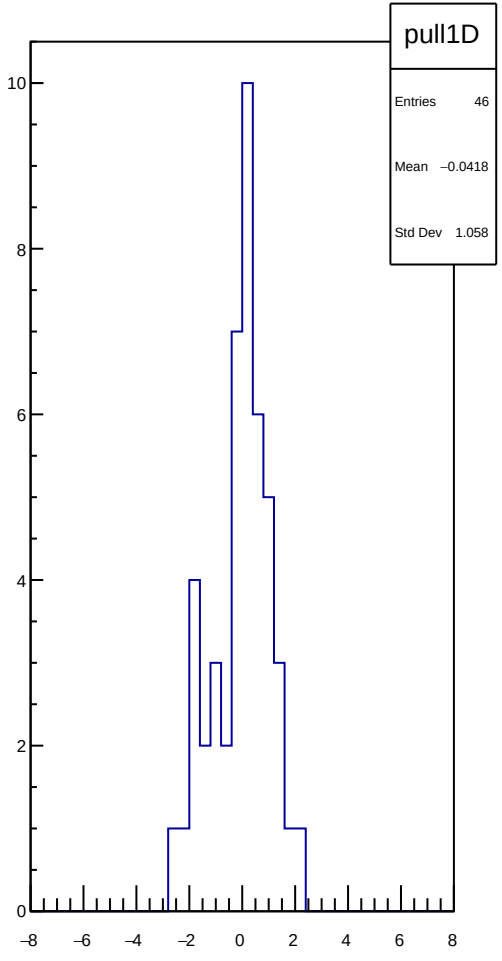
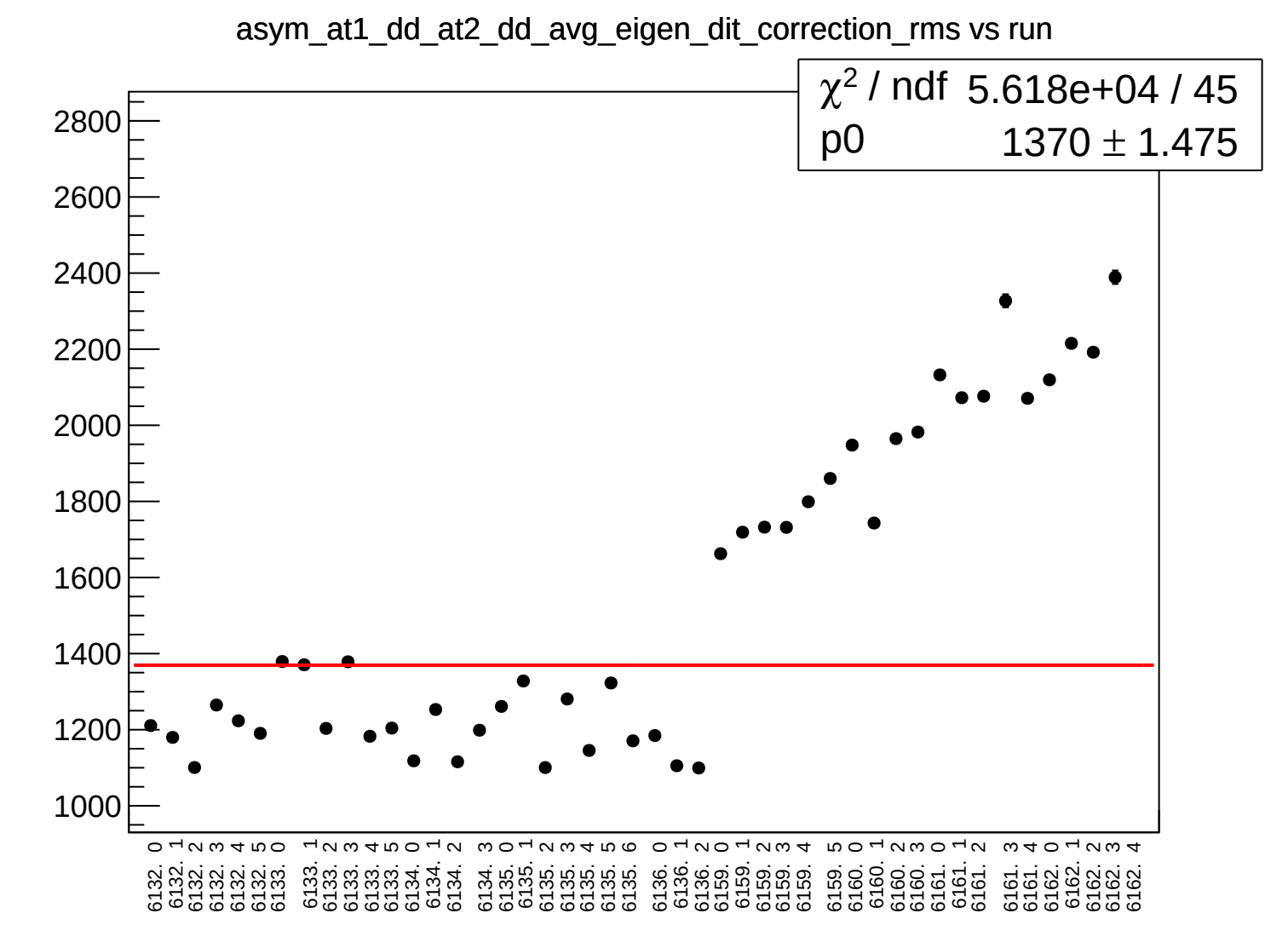
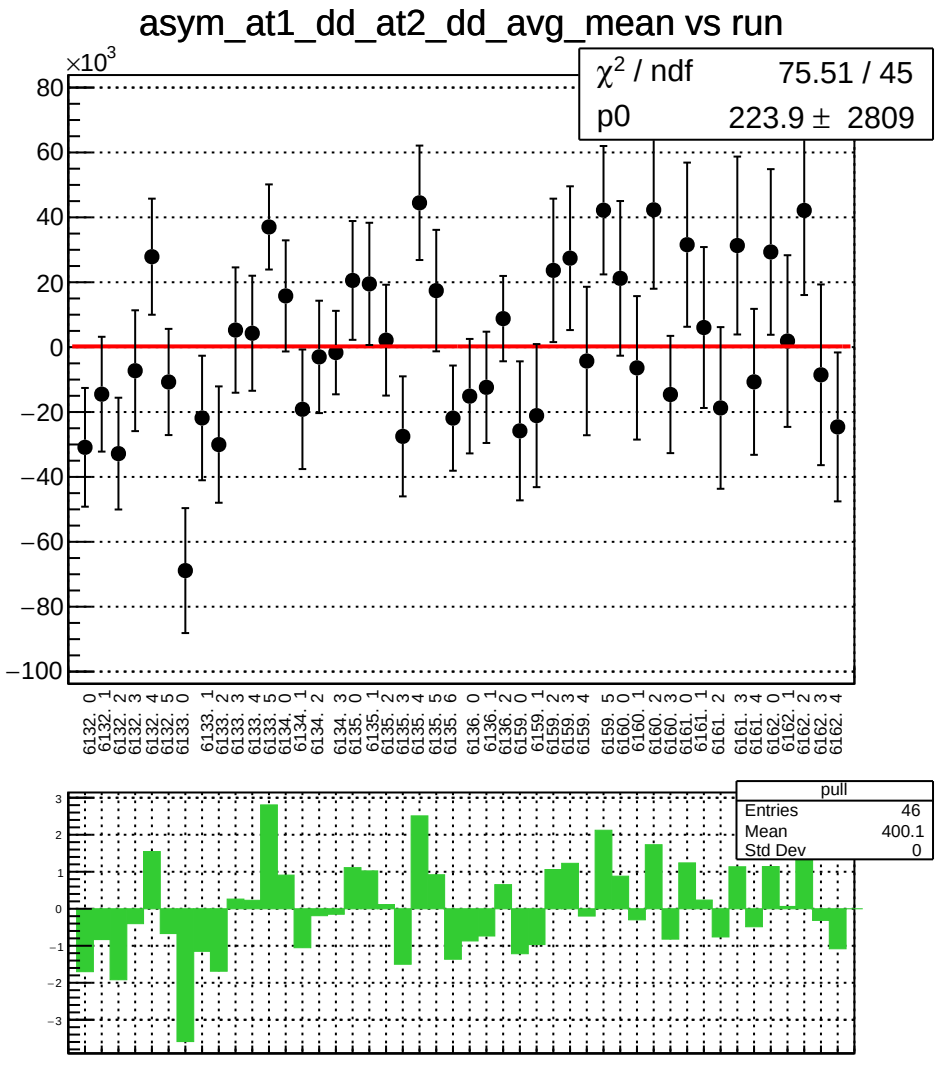
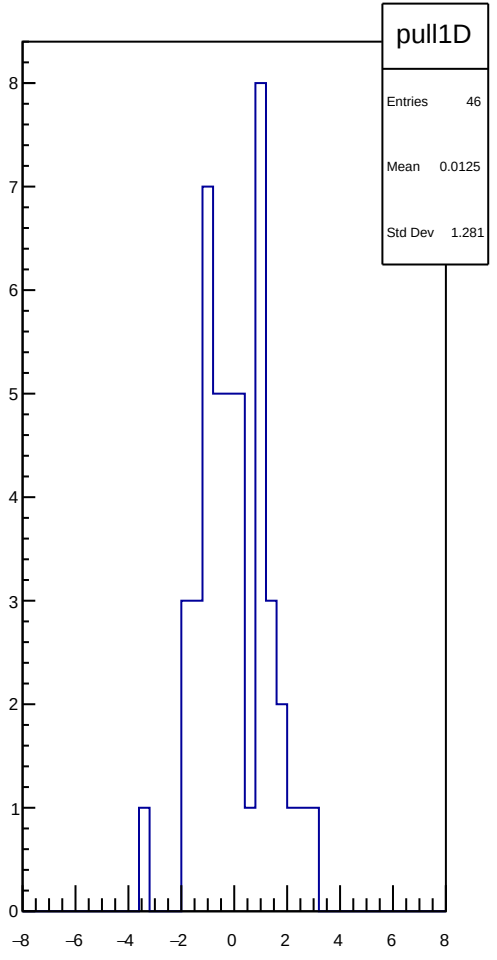
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

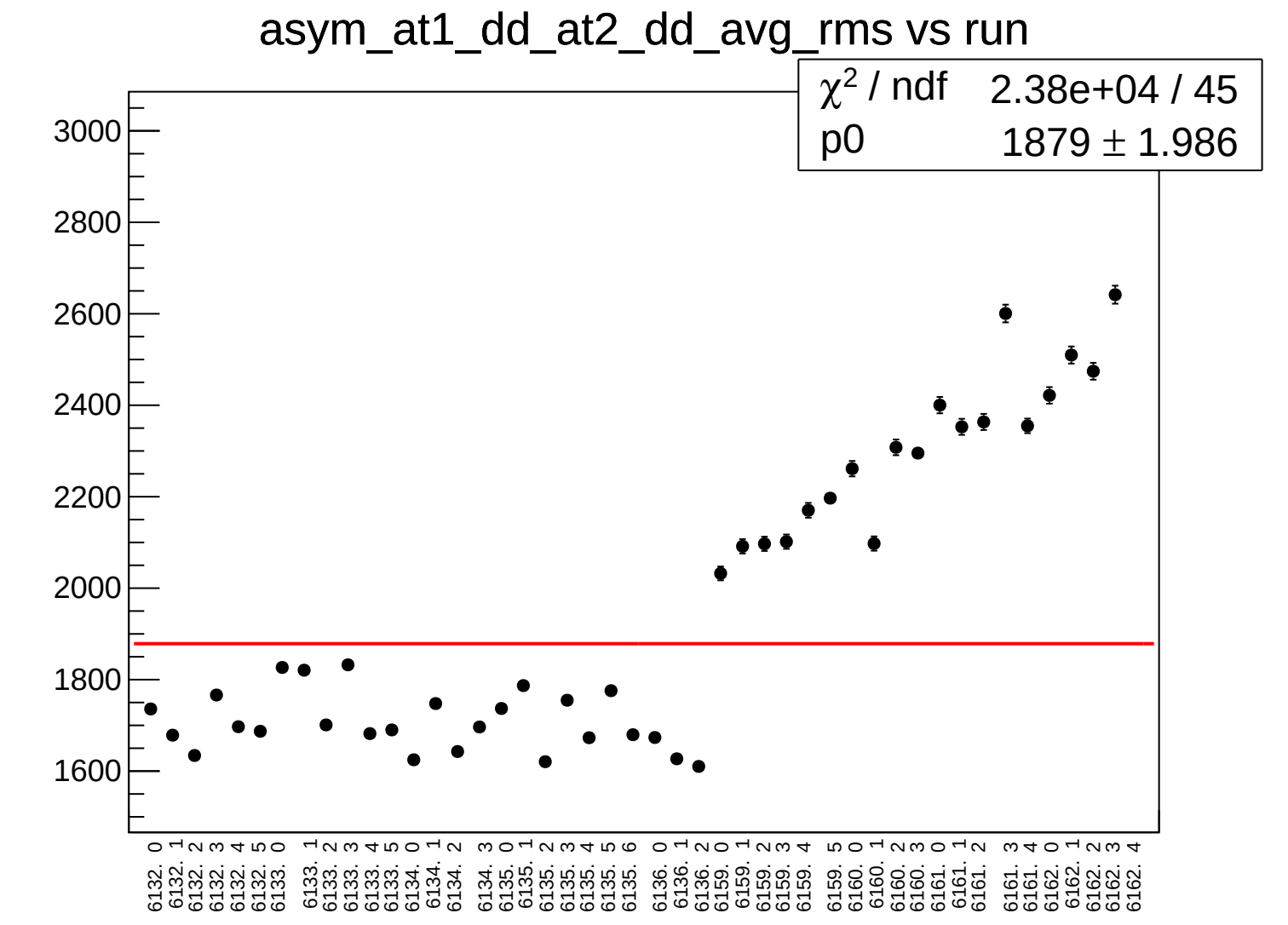

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 51.57 / 45
p0 509.5 ± 2086
pull
Entries 46
Mean 115.3
Std Dev 0

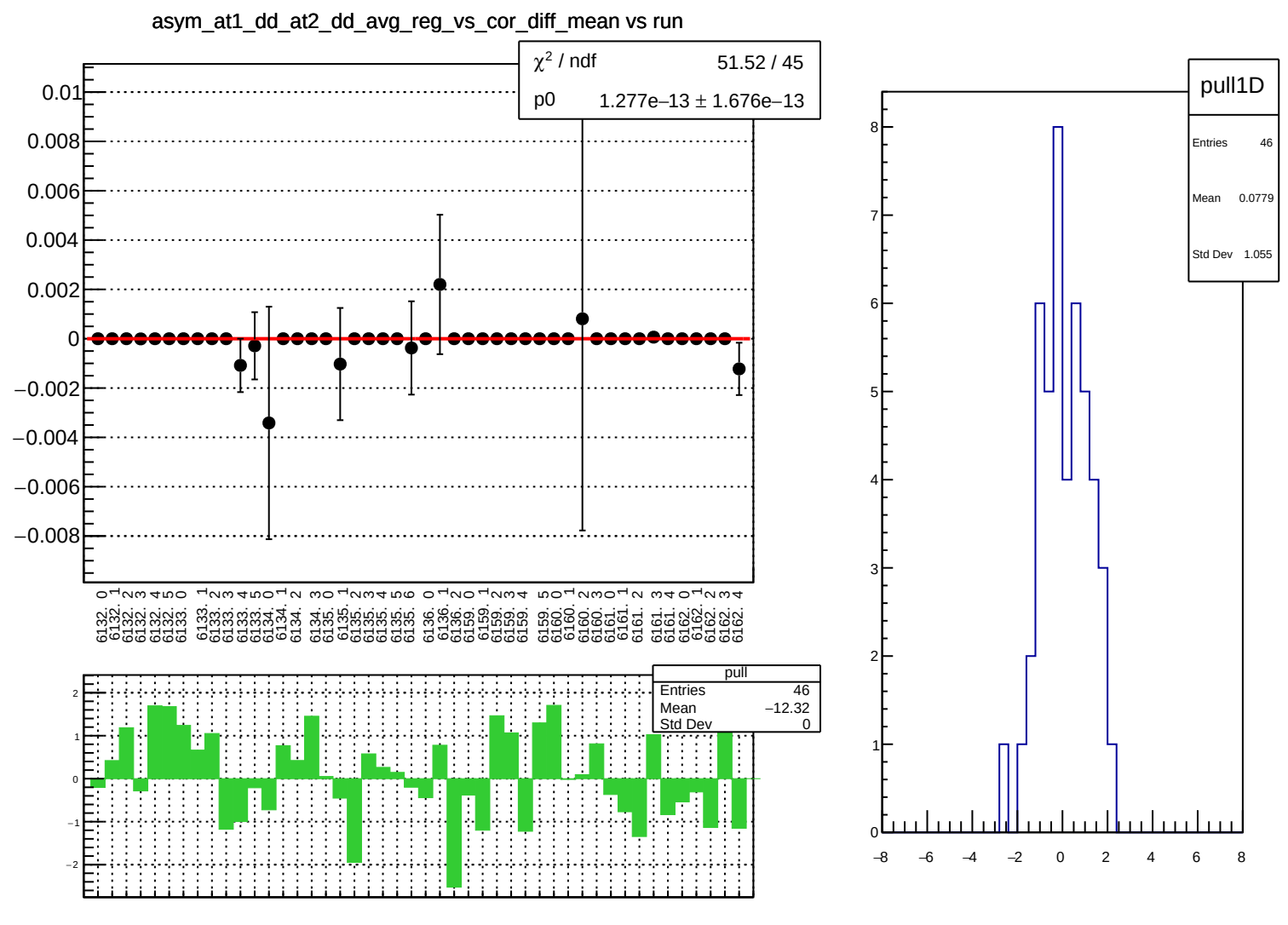

pull1D
Entries 46
Mean −0.0418
Std Dev 1.058

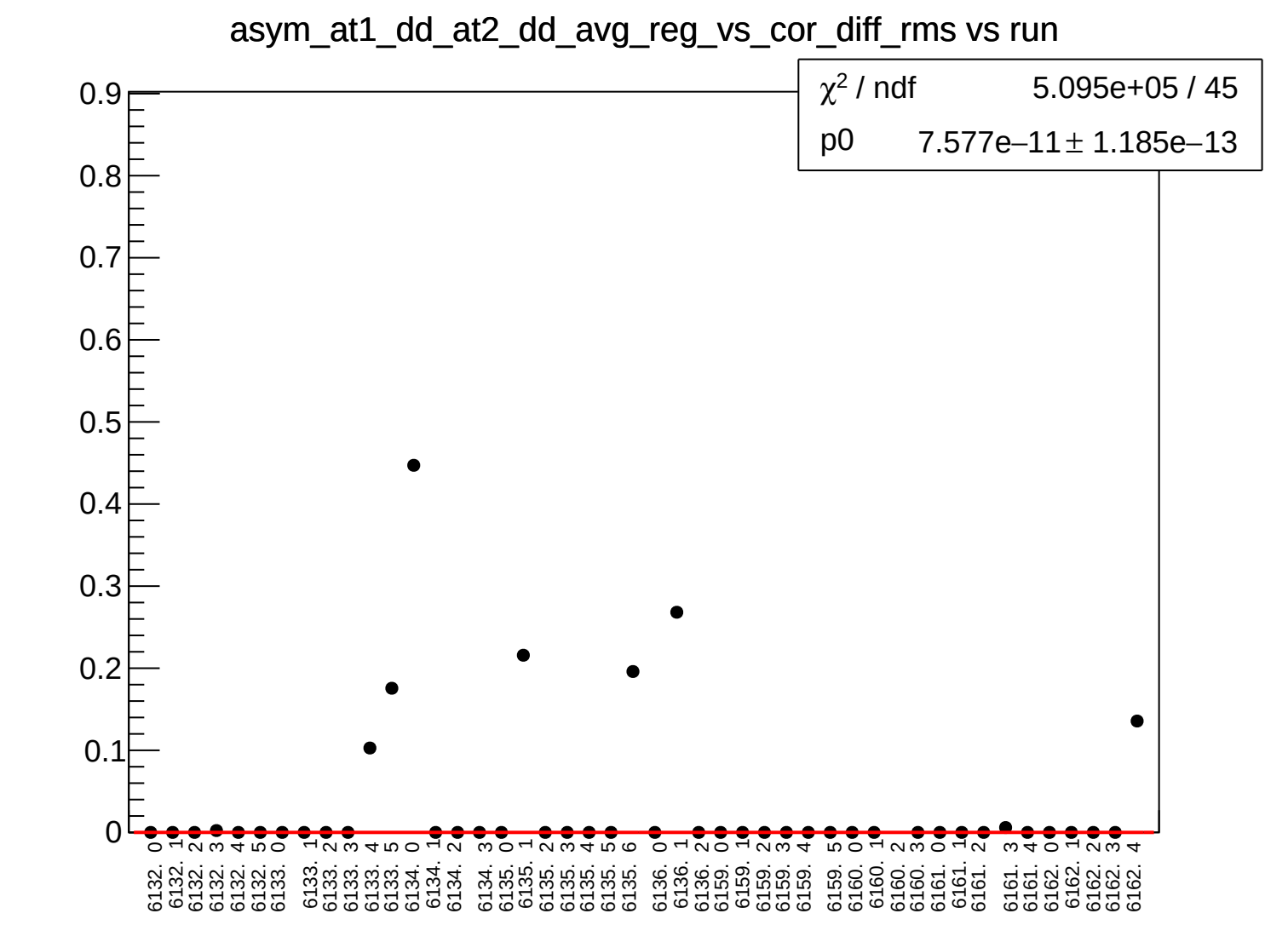

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.618e+04 / 45
p0 1370 ± 1.475
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

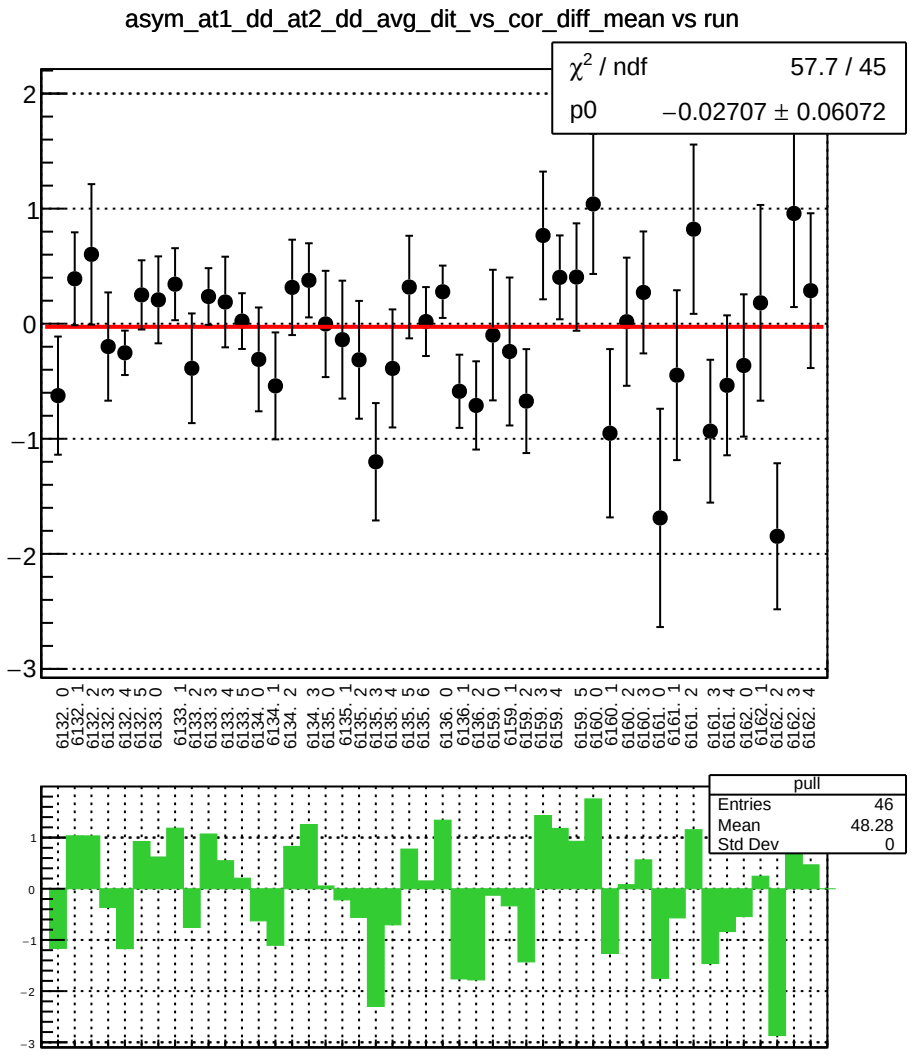

asym_at1_dd_at2_dd_avg_mean vs run
×10^3
χ² / ndf 75.51 / 45
p0 223.9 ± 2809
pull
Entries 46
Mean 400.1
Std Dev 0

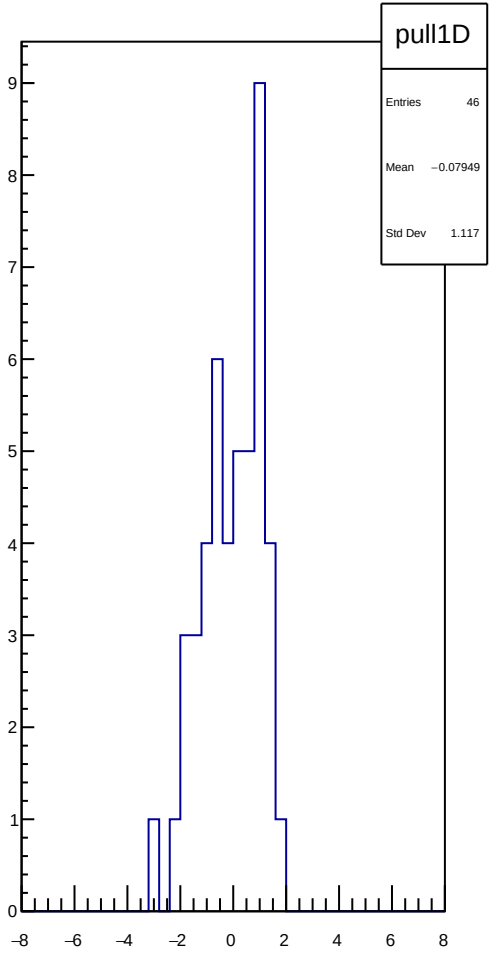

pull1D
Entries 46
Mean 0.0125
Std Dev 1.281

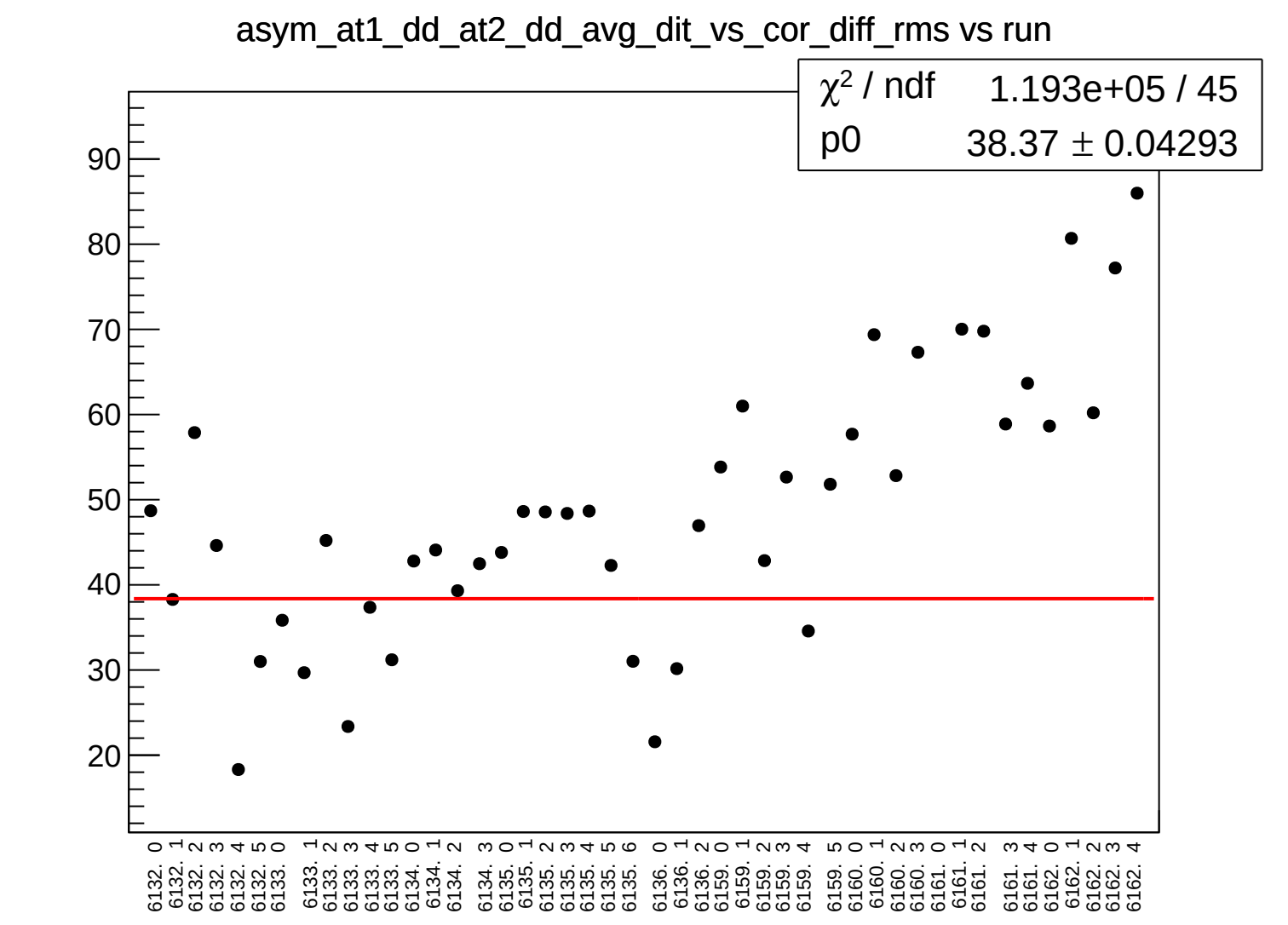

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 2.38e+04 / 45
p0 1879 ± 1.986
3000
2800
2600
2400
2200
2000
1800
1600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

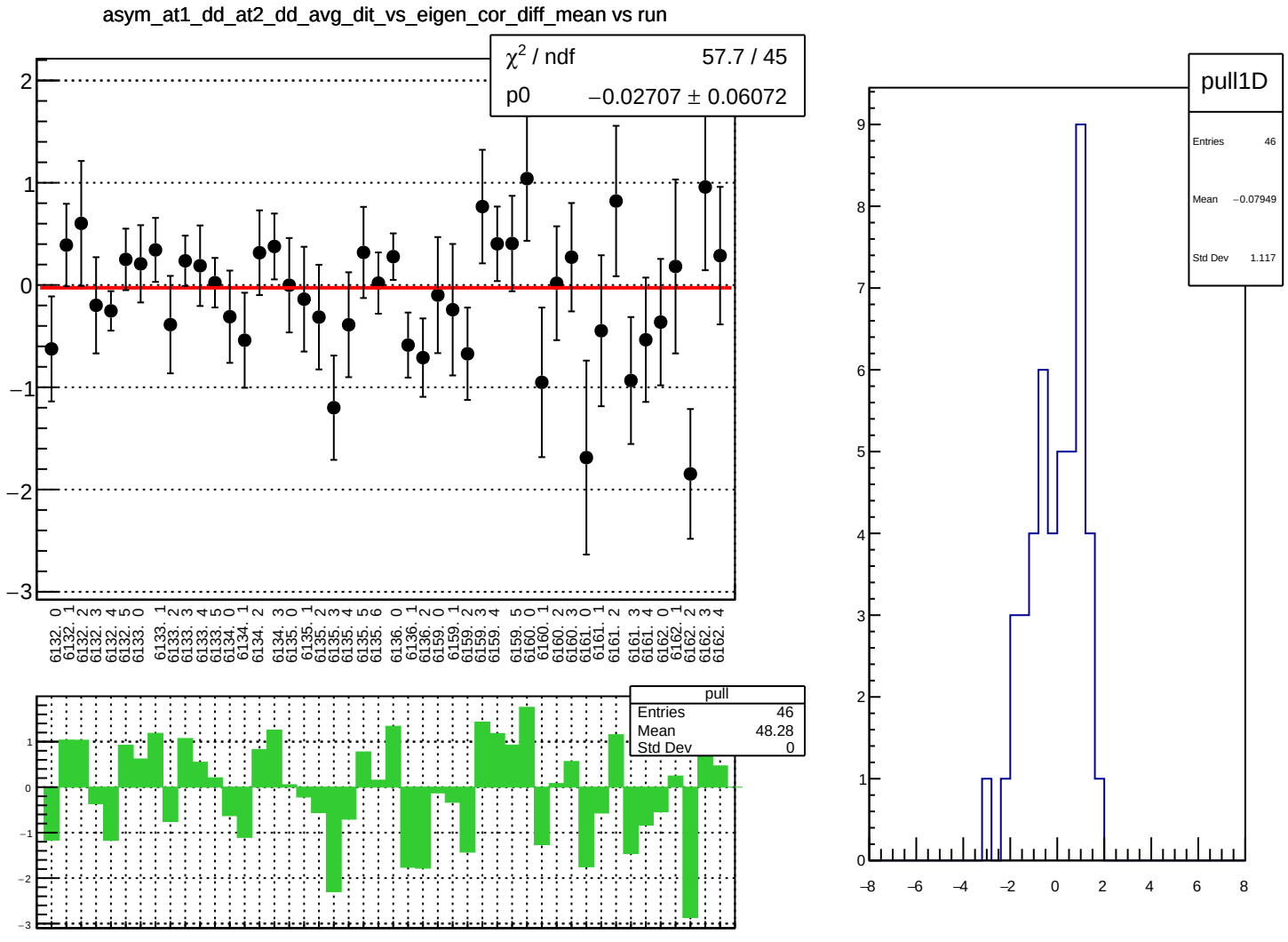

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 51.52 / 45
p0 1.277e−13 ± 1.676e−13
pull
Entries 46
Mean −12.32
Std Dev 0
pull1D
Entries 46
Mean 0.0779
Std Dev 1.055

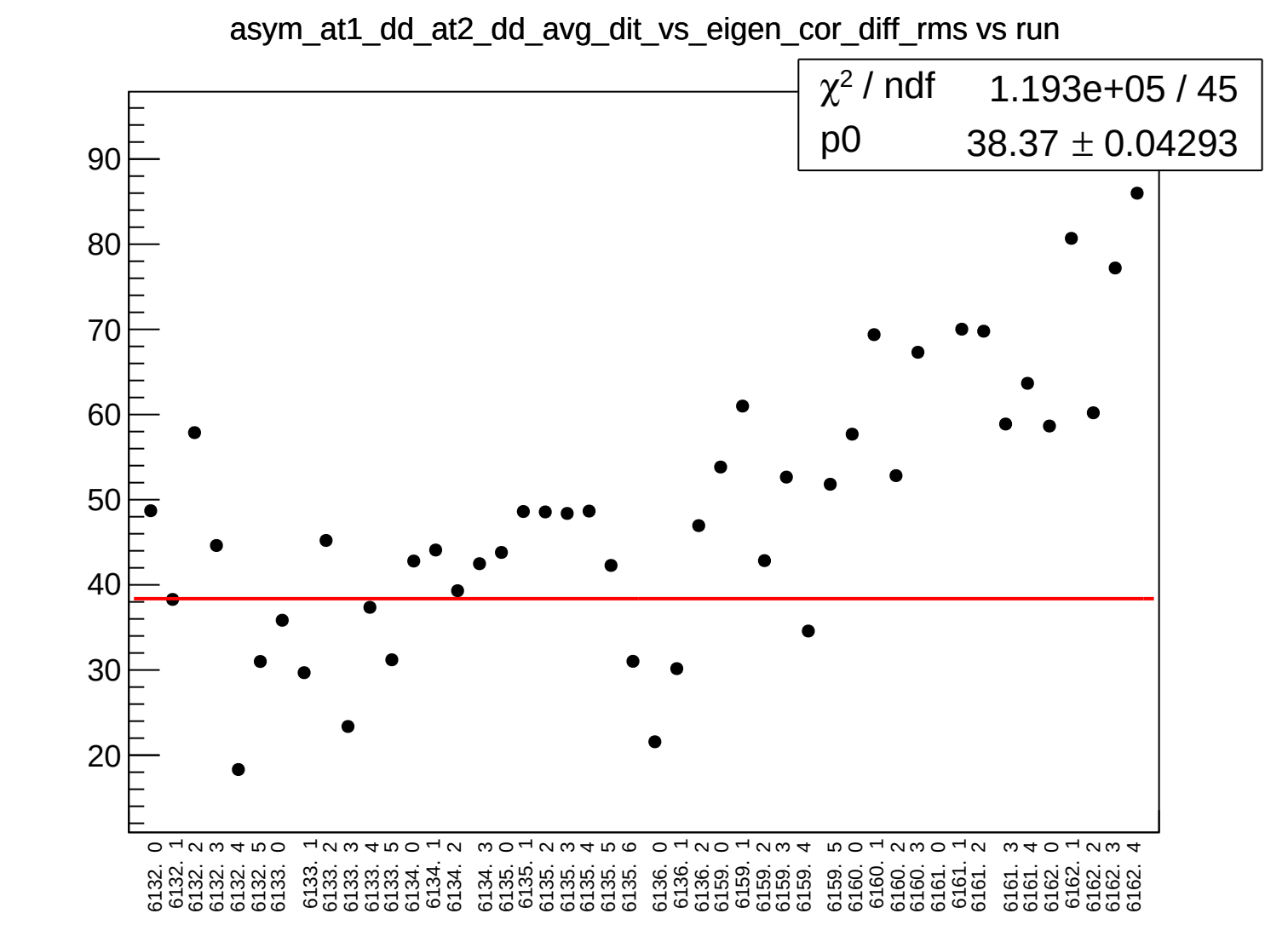

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.095e+05 / 45
p0 7.577e−11 ± 1.185e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

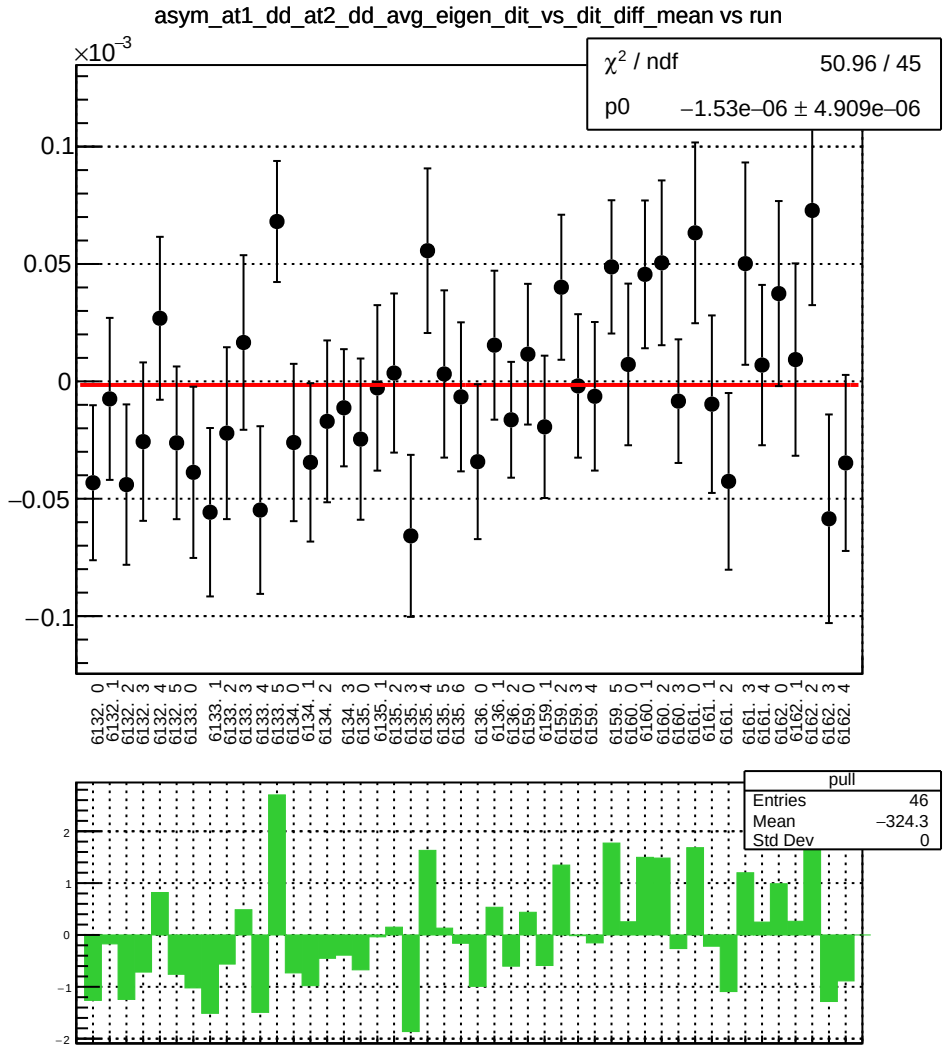

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 57.7 / 45
p0 −0.02707 ± 0.06072
pull
Entries 46
Mean 48.28
Std Dev 0

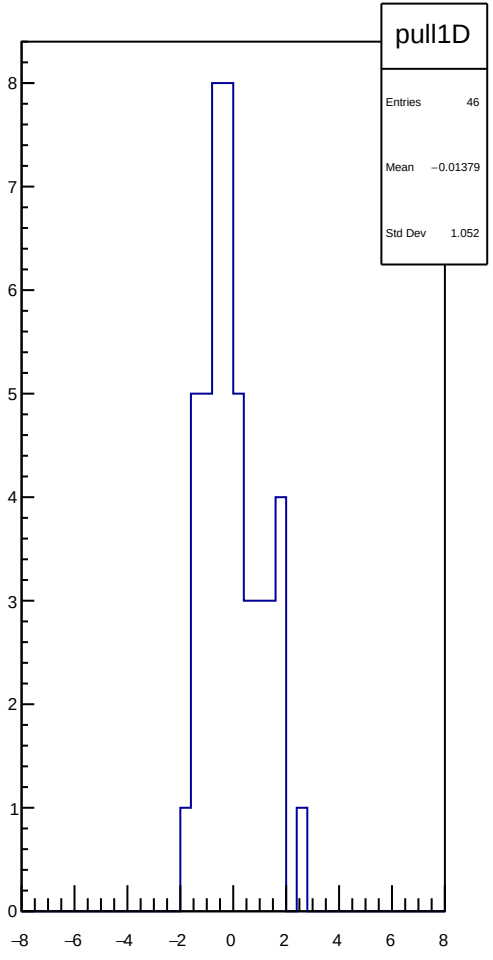

pull1D
Entries 46
Mean −0.07949
Std Dev 1.117

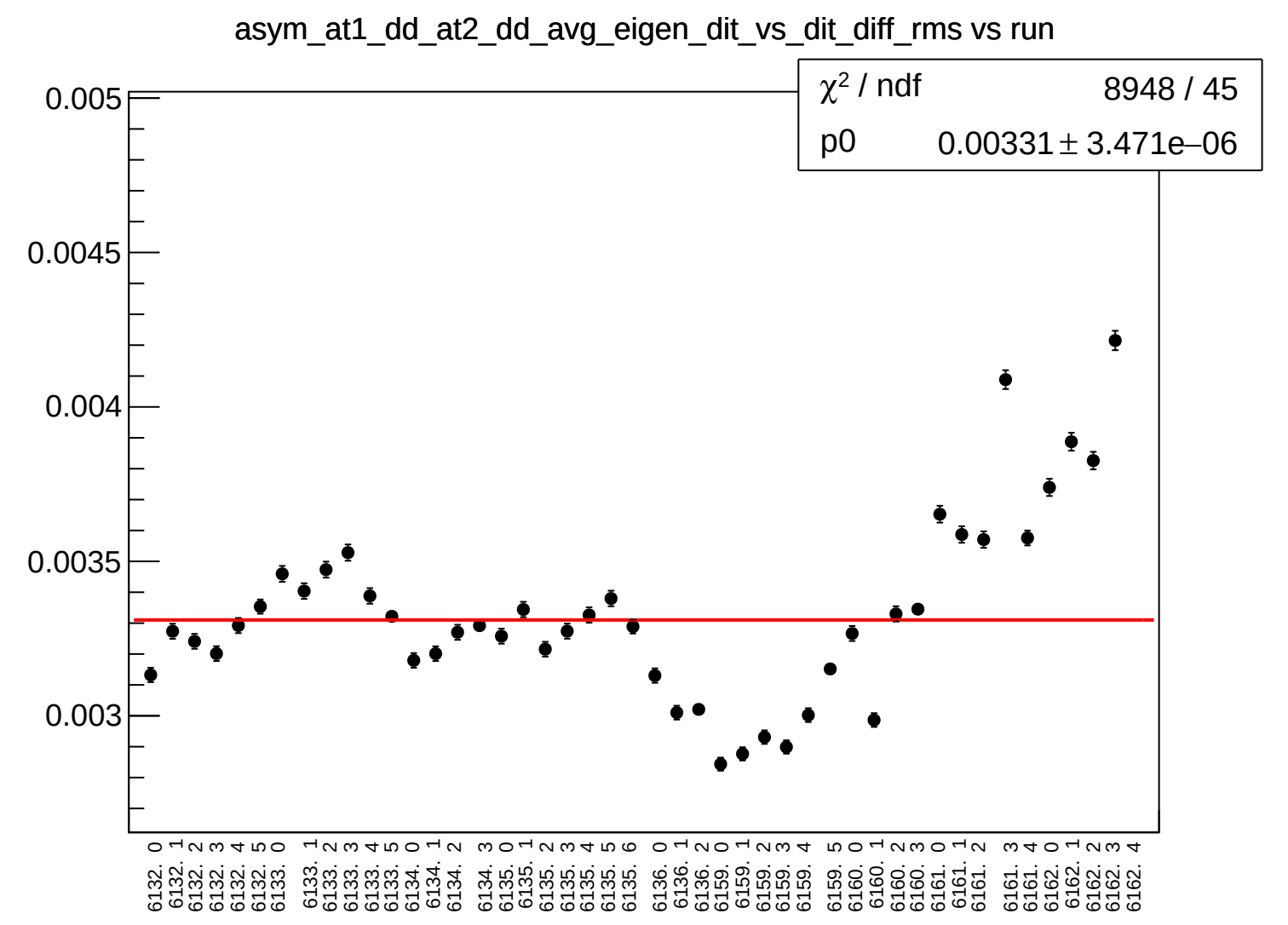

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.193e+05 / 45
p0 38.37 ± 0.04293
90
80
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

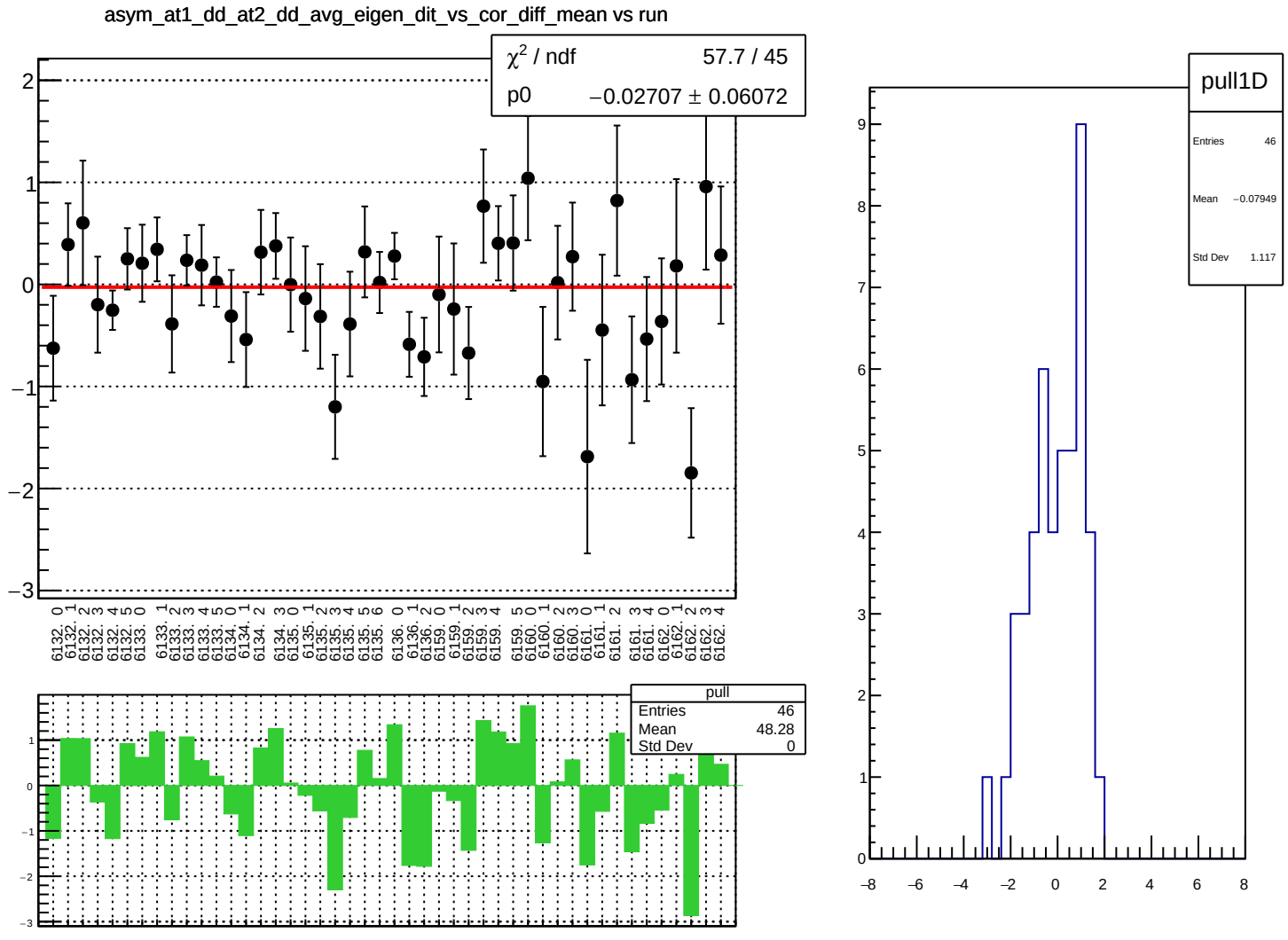

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.7 / 45
p0 −0.02707 ± 0.06072
pull
Entries 46
Mean 48.28
Std Dev 0
pull1D
Entries 46
Mean −0.07949
Std Dev 1.117

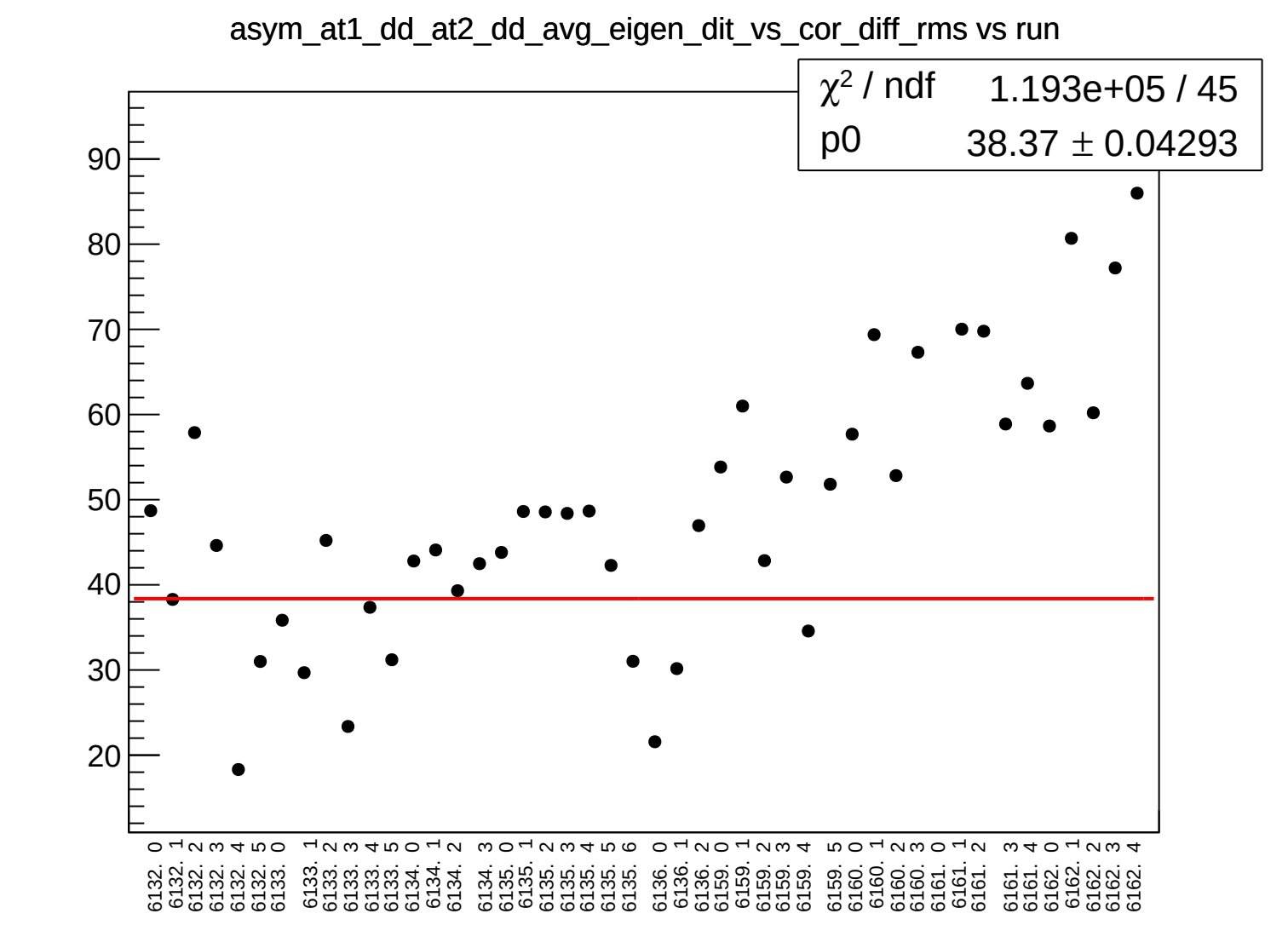

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.193e+05 / 45
p0 38.37 ± 0.04293
90
80
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

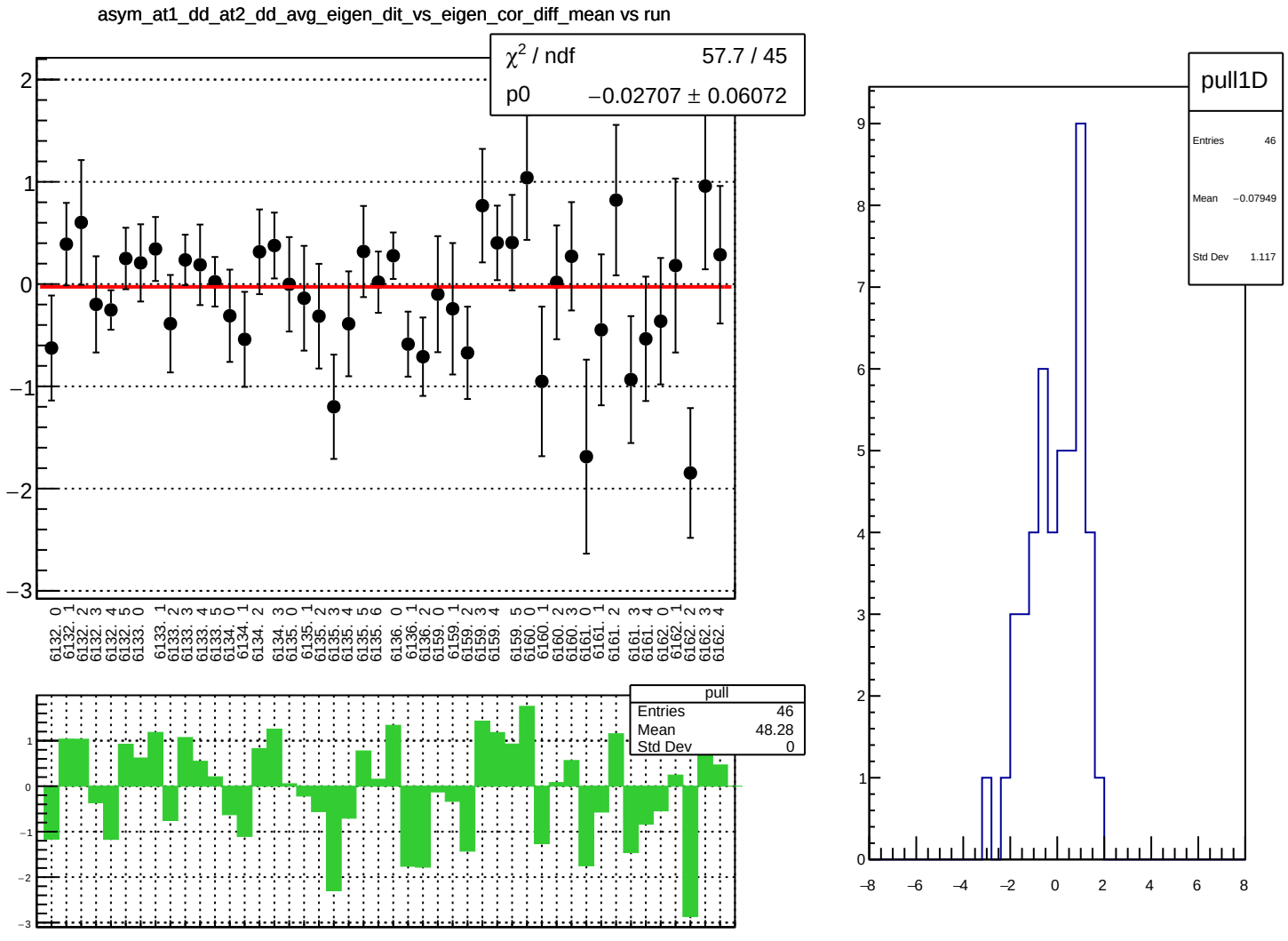

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 50.96 / 45
p0 −1.53e−06 ± 4.909e−06
0.1
0.05
0
−0.05
−0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −324.3
Std Dev 0
2
1
0
−1
−2

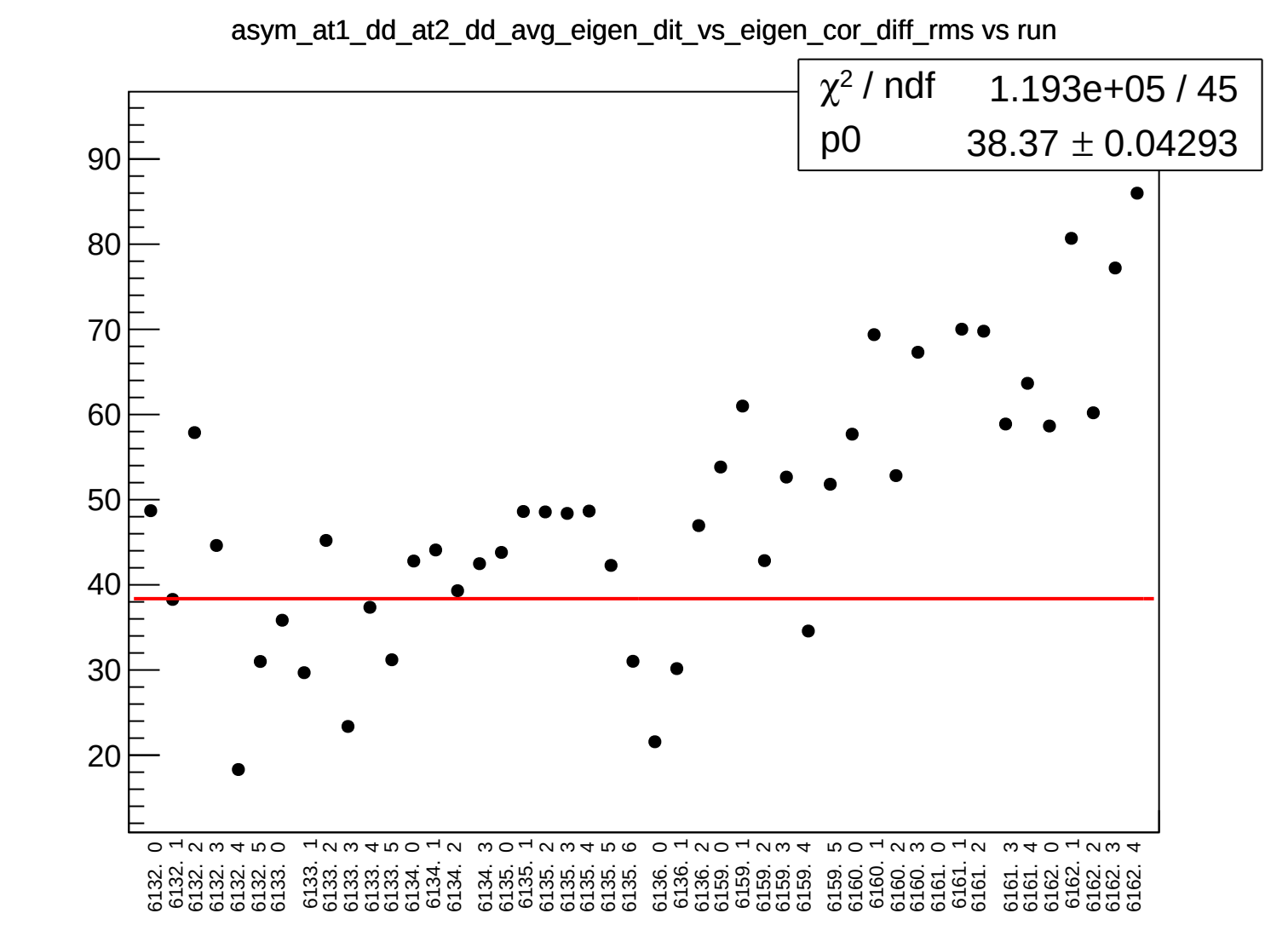

pull1D
Entries 46
Mean −0.01379
Std Dev 1.052
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

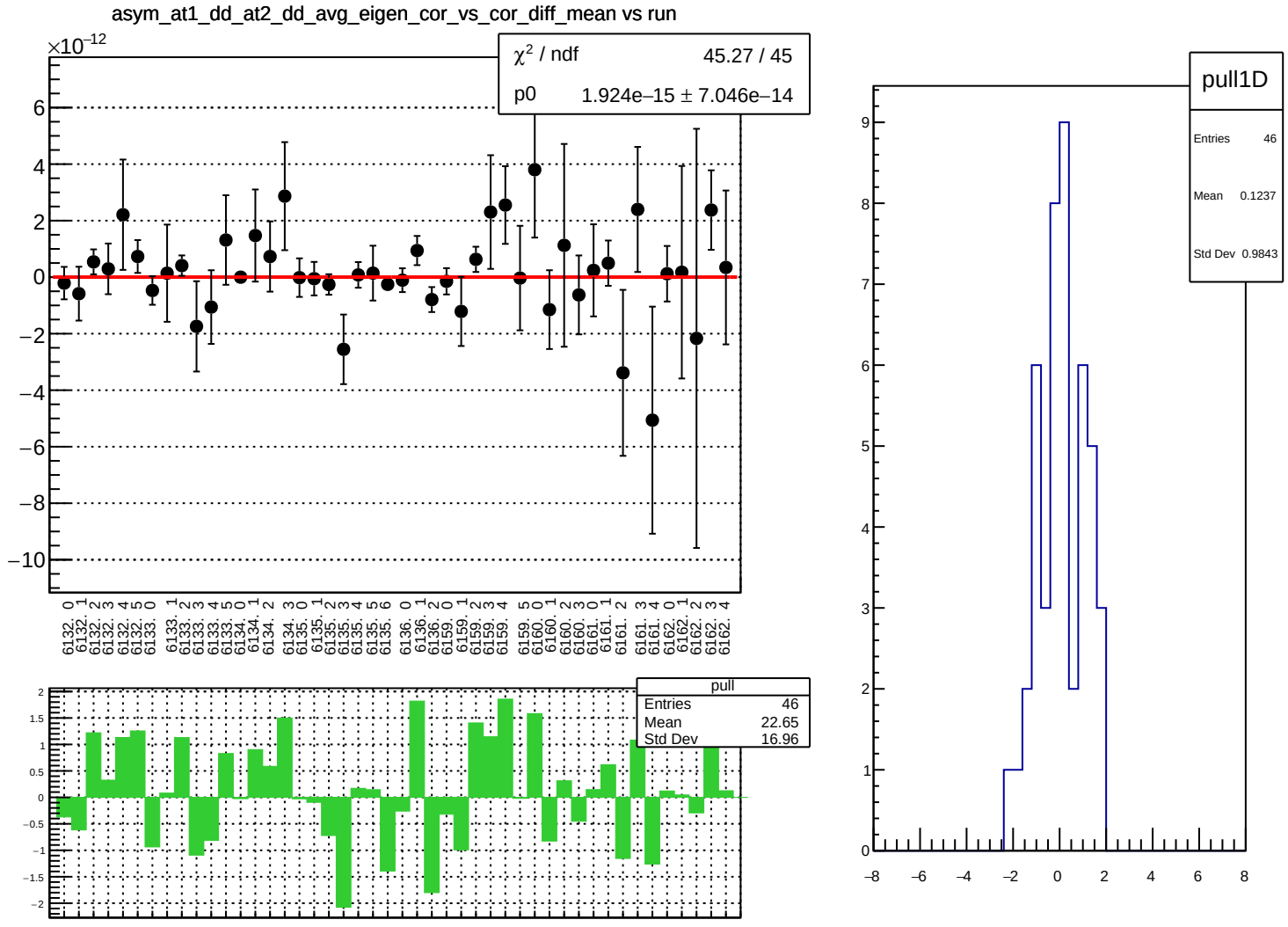

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8948 / 45
p0 0.00331 ± 3.471e−06
0.005
0.0045
0.004
0.0035
0.003
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

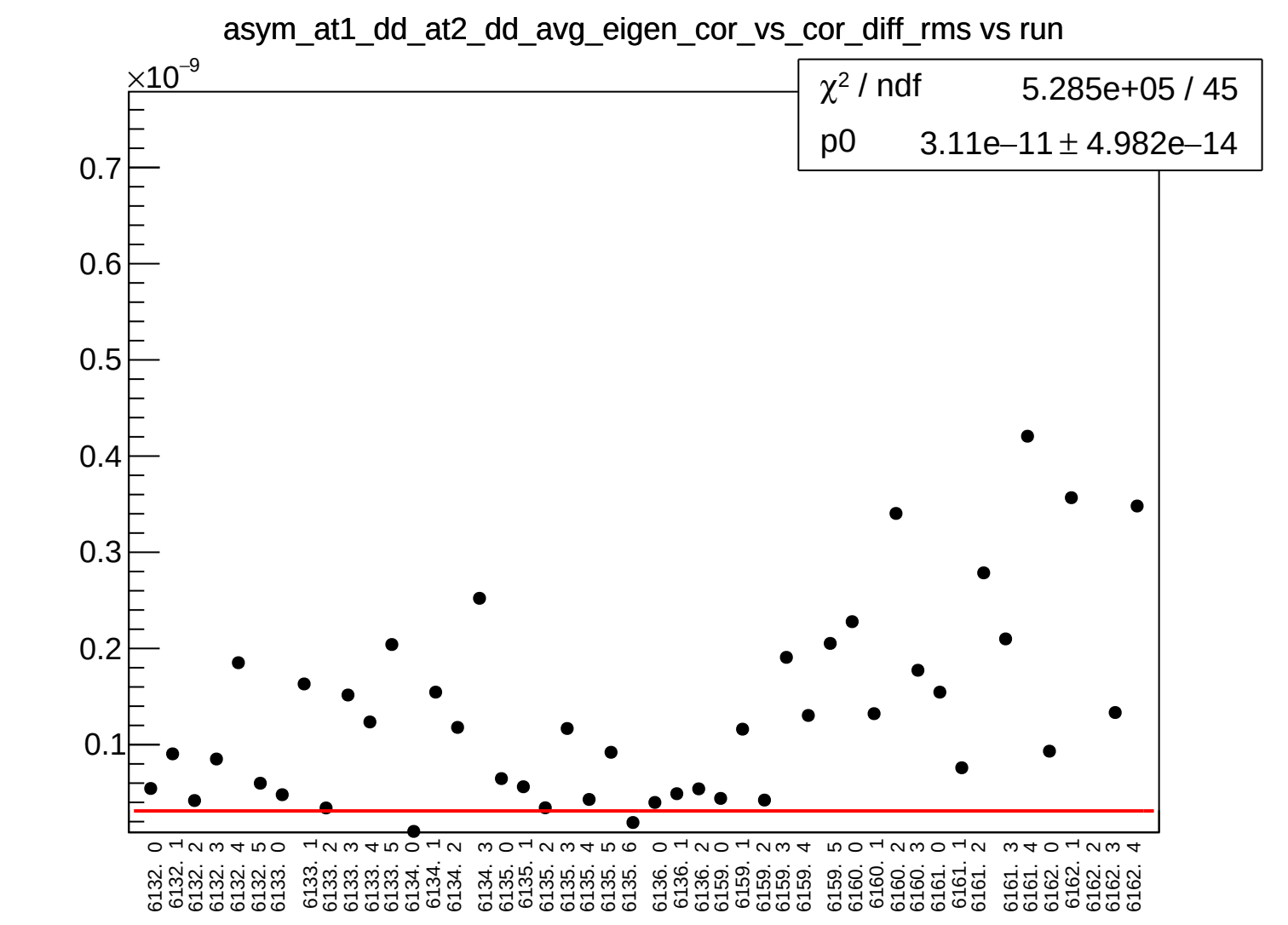

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 57.7 / 45
p0 −0.02707 ± 0.06072
pull
Entries 46
Mean 48.28
Std Dev 0
pull1D
Entries 46
Mean −0.07949
Std Dev 1.117

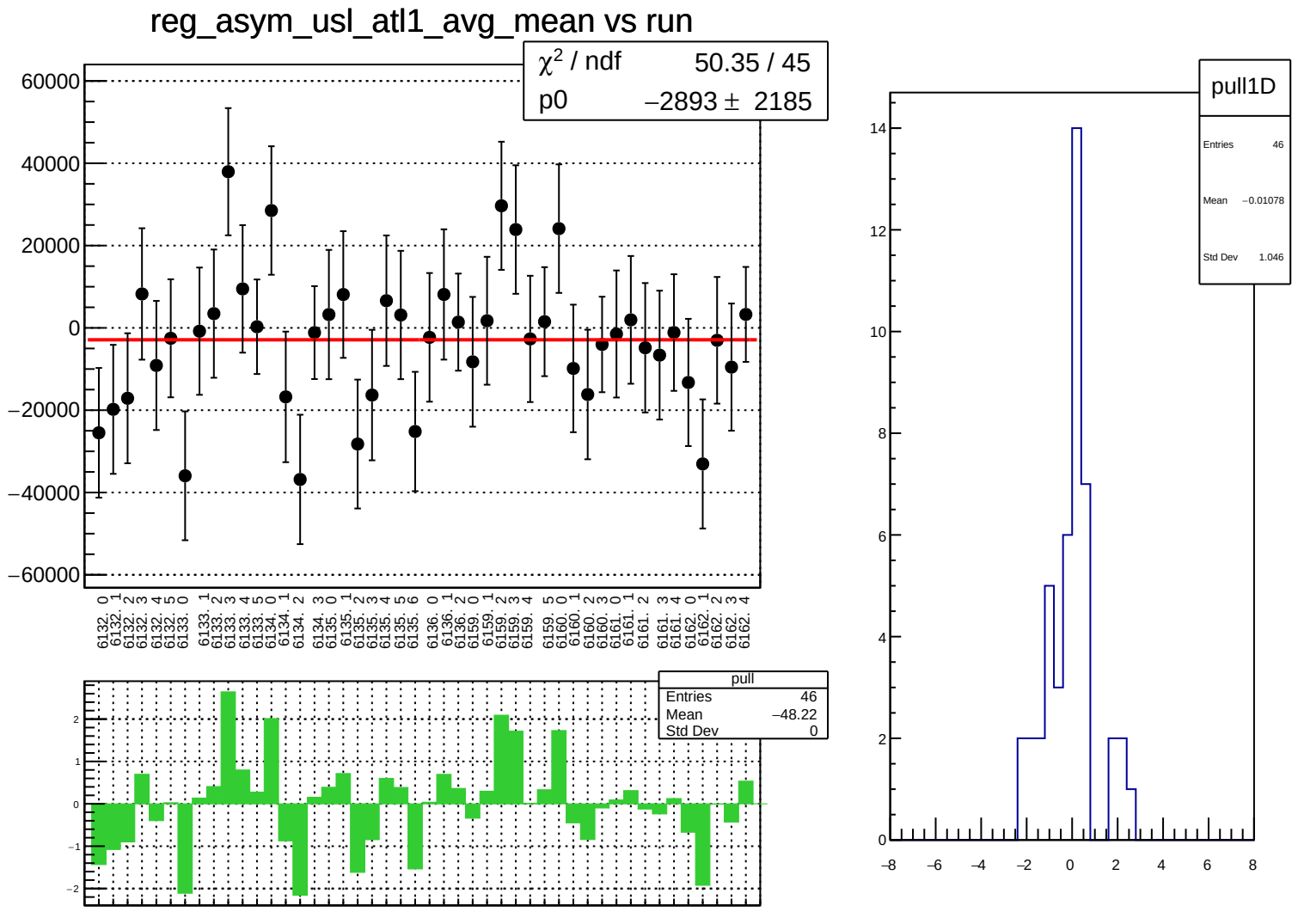

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.193e+05 / 45
p0 38.37 ± 0.04293
90
80
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.7 / 45
p0 −0.02707 ± 0.06072
pull
Entries 46
Mean 48.28
Std Dev 0
pull1D
Entries 46
Mean −0.07949
Std Dev 1.117


asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.193e+05 / 45
p0 38.37 ± 0.04293
90
80
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 45.27 / 45
p0 1.924e−15 ± 7.046e−14
pull
Entries 46
Mean 22.65
Std Dev 16.96
pull1D
Entries 46
Mean 0.1237
Std Dev 0.9843


asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.285e+05 / 45
p0 3.11e−11 ± 4.982e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 50.35 / 45
p0 −2893 ± 2185
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −48.22
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.01078
Std Dev 1.046
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2
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−4
−2
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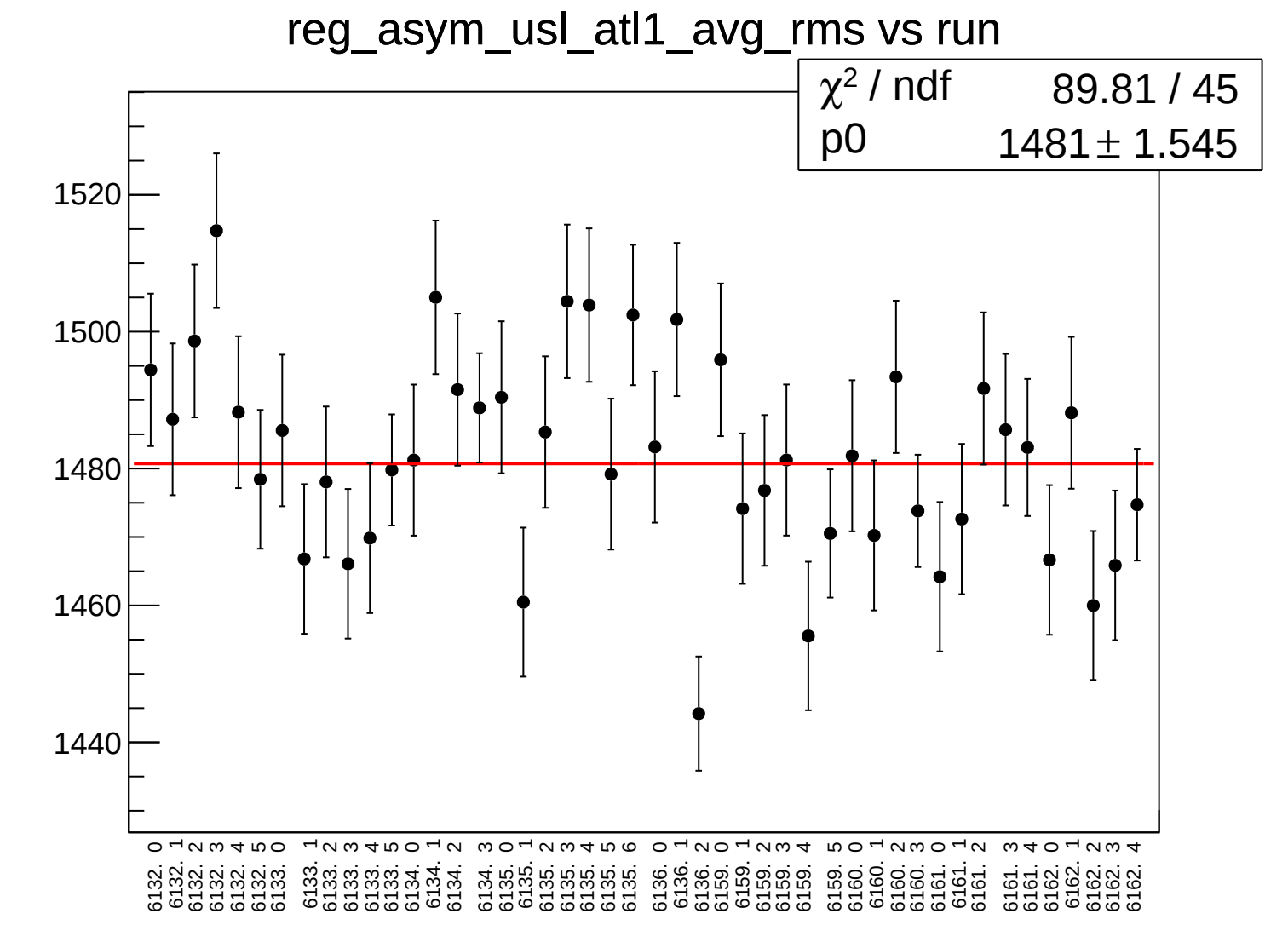
2
4
6
8


reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 89.81 / 45
p0 1481 ± 1.545
1520
1500
1480
1460
1440
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
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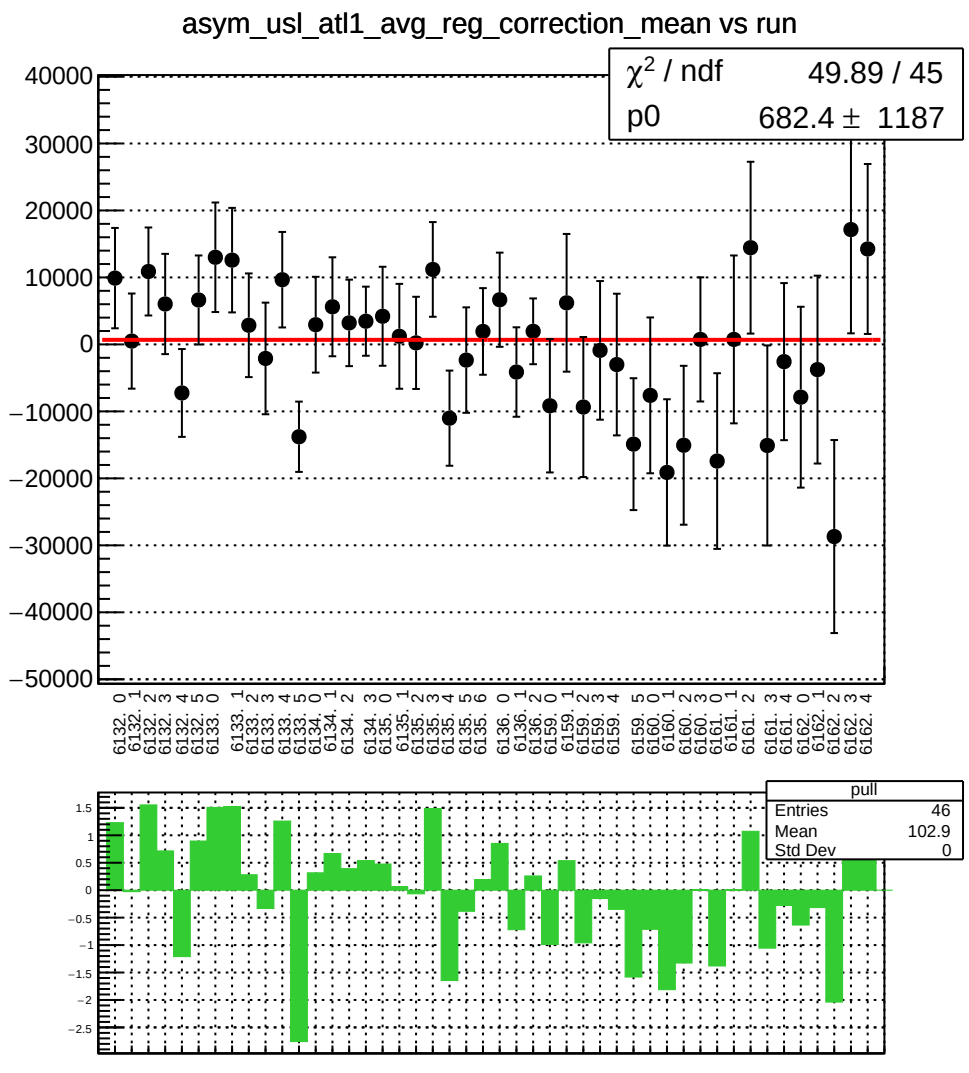
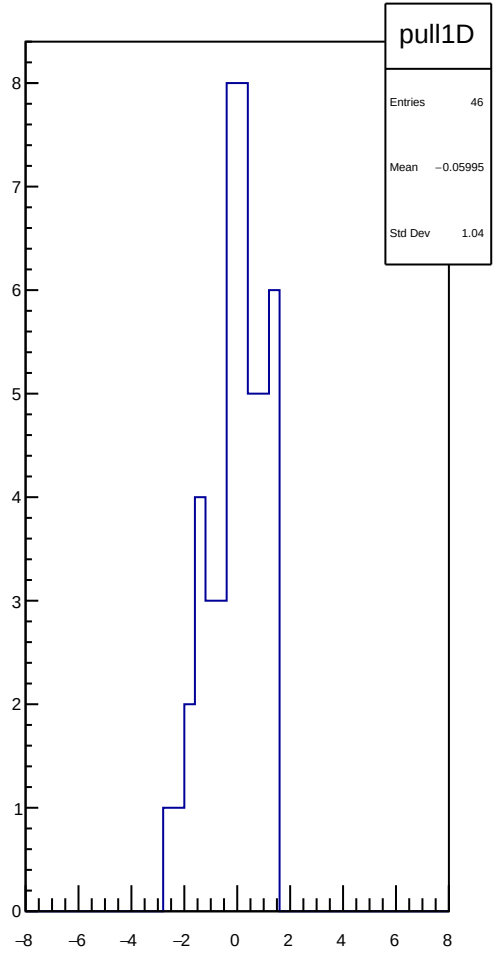
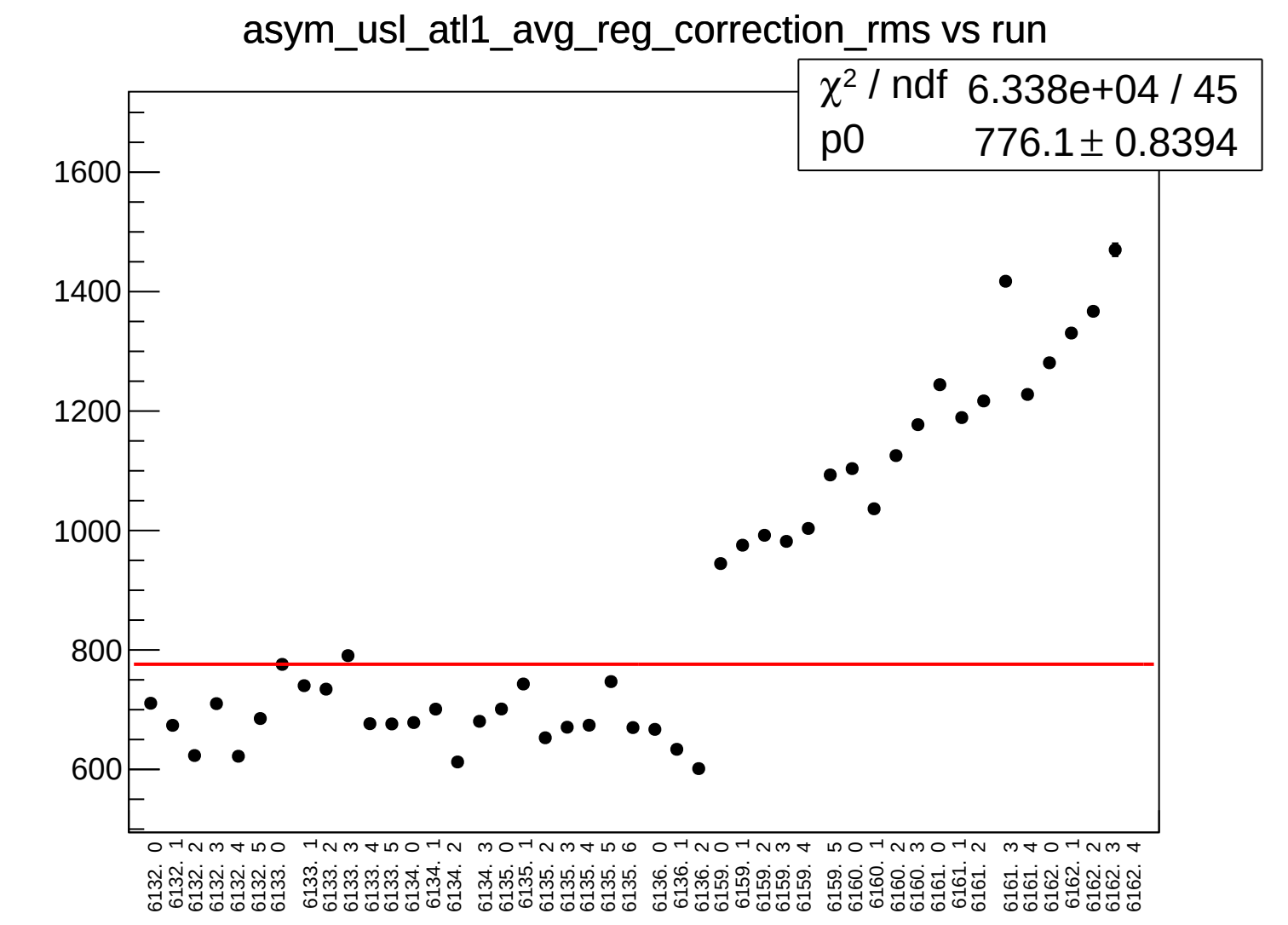
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 49.89 / 45
p0 682.4 ± 1187
pull
Entries 46
Mean 102.9
Std Dev 0


pull1D
Entries 46
Mean −0.05995
Std Dev 1.04


asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 6.338e+04 / 45
p0 776.1 ± 0.8394
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6134. 2
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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
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
6161. 3
6161. 4
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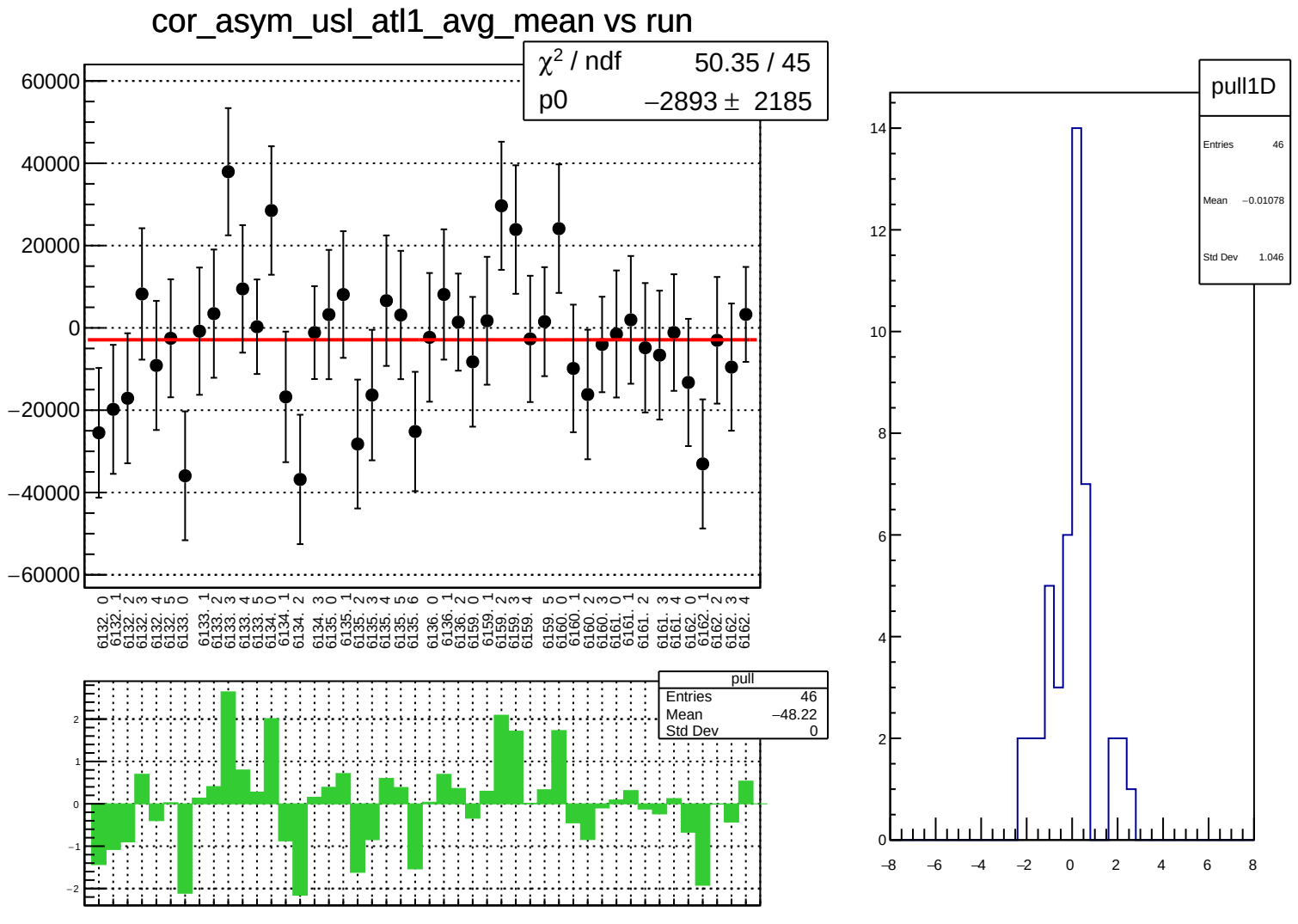
6162. 4


cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 50.35 / 45
p0 −2893 ± 2185
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
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6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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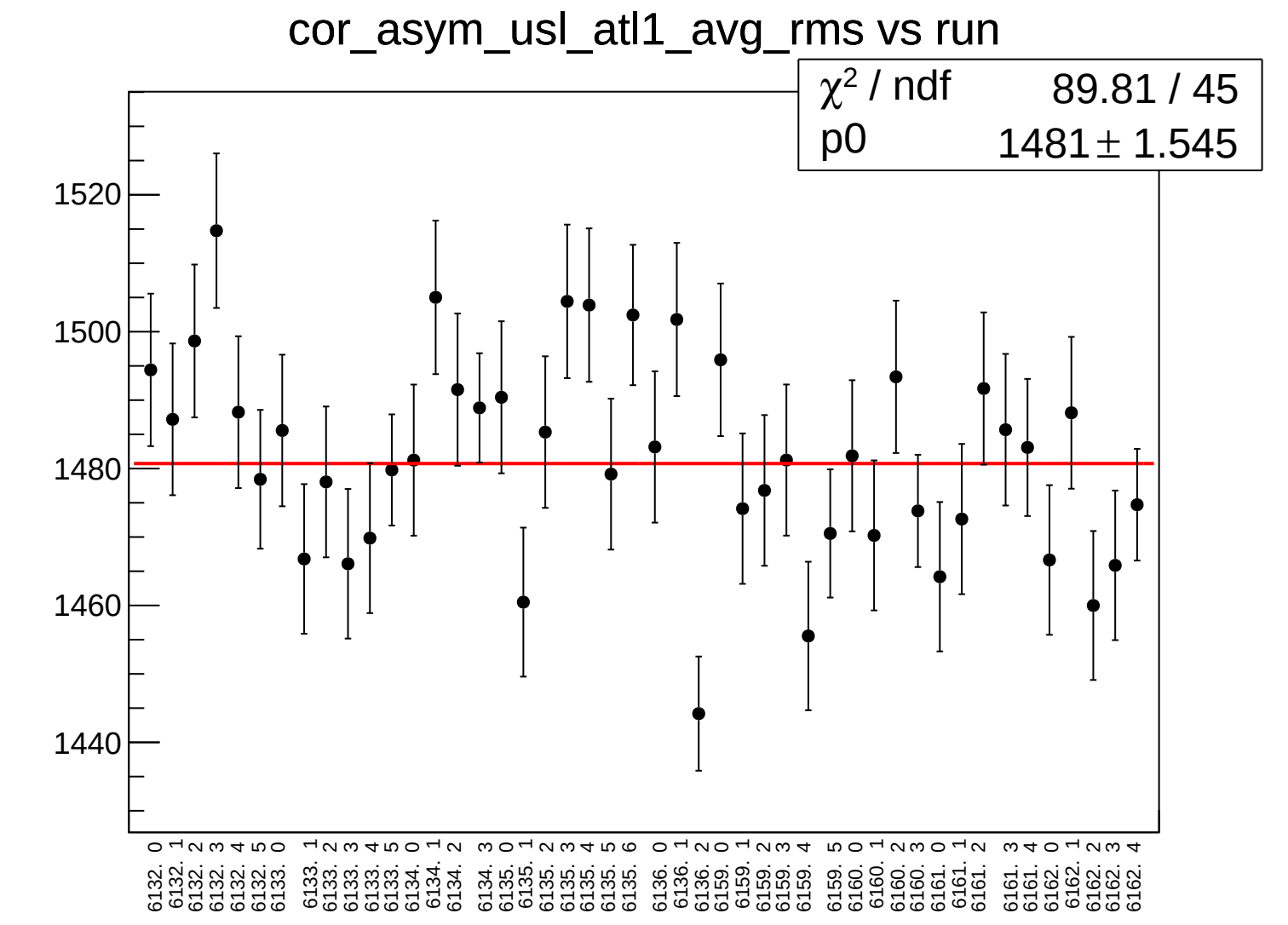
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −48.22
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.01078
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 89.81 / 45
p0 1481 ± 1.545
1520
1500
1480
1460
1440
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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
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6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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6162. 0
6162. 1
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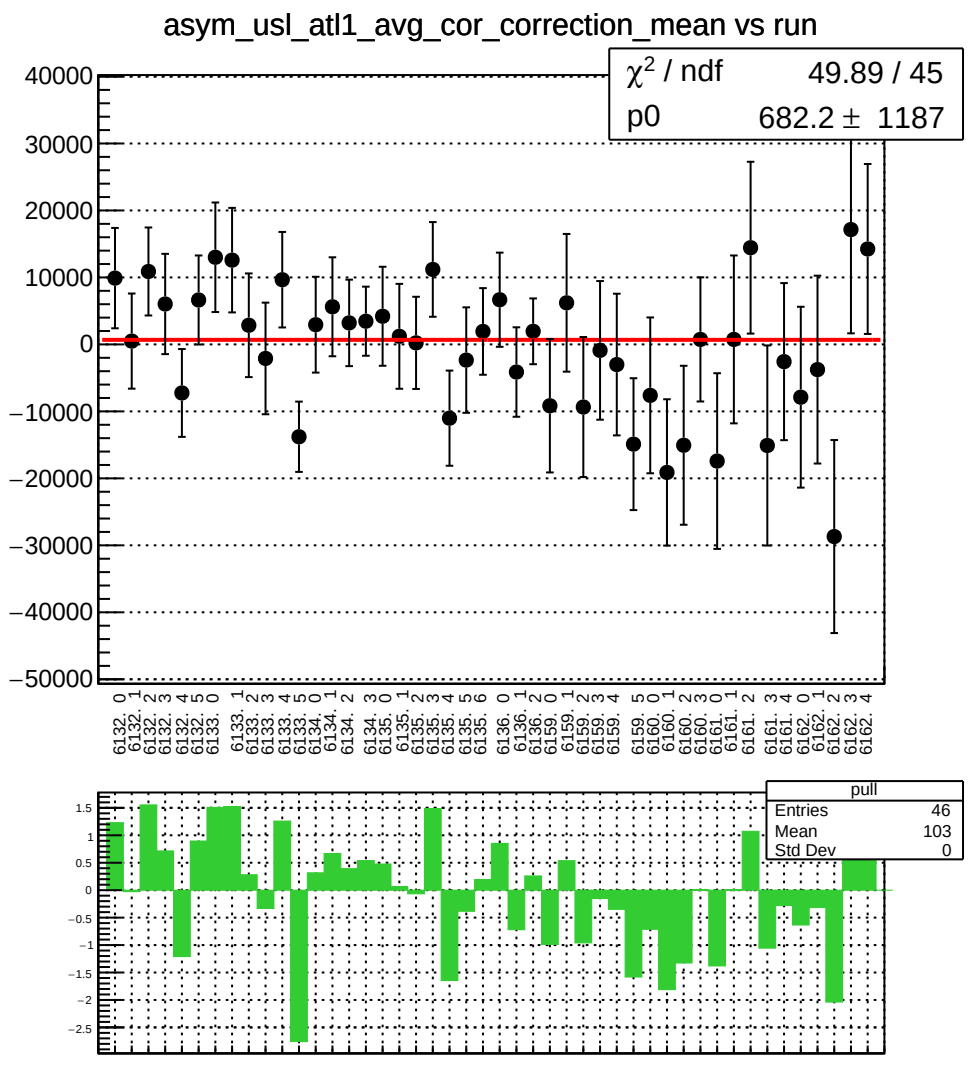
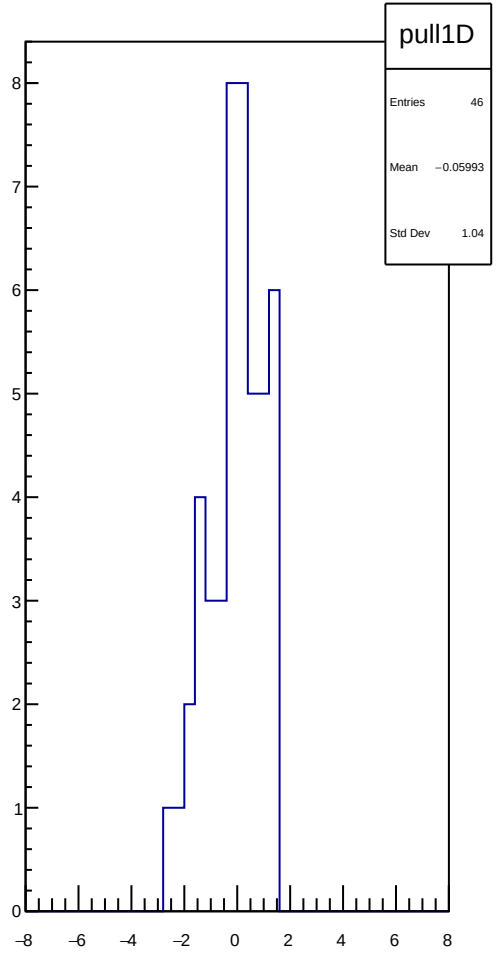
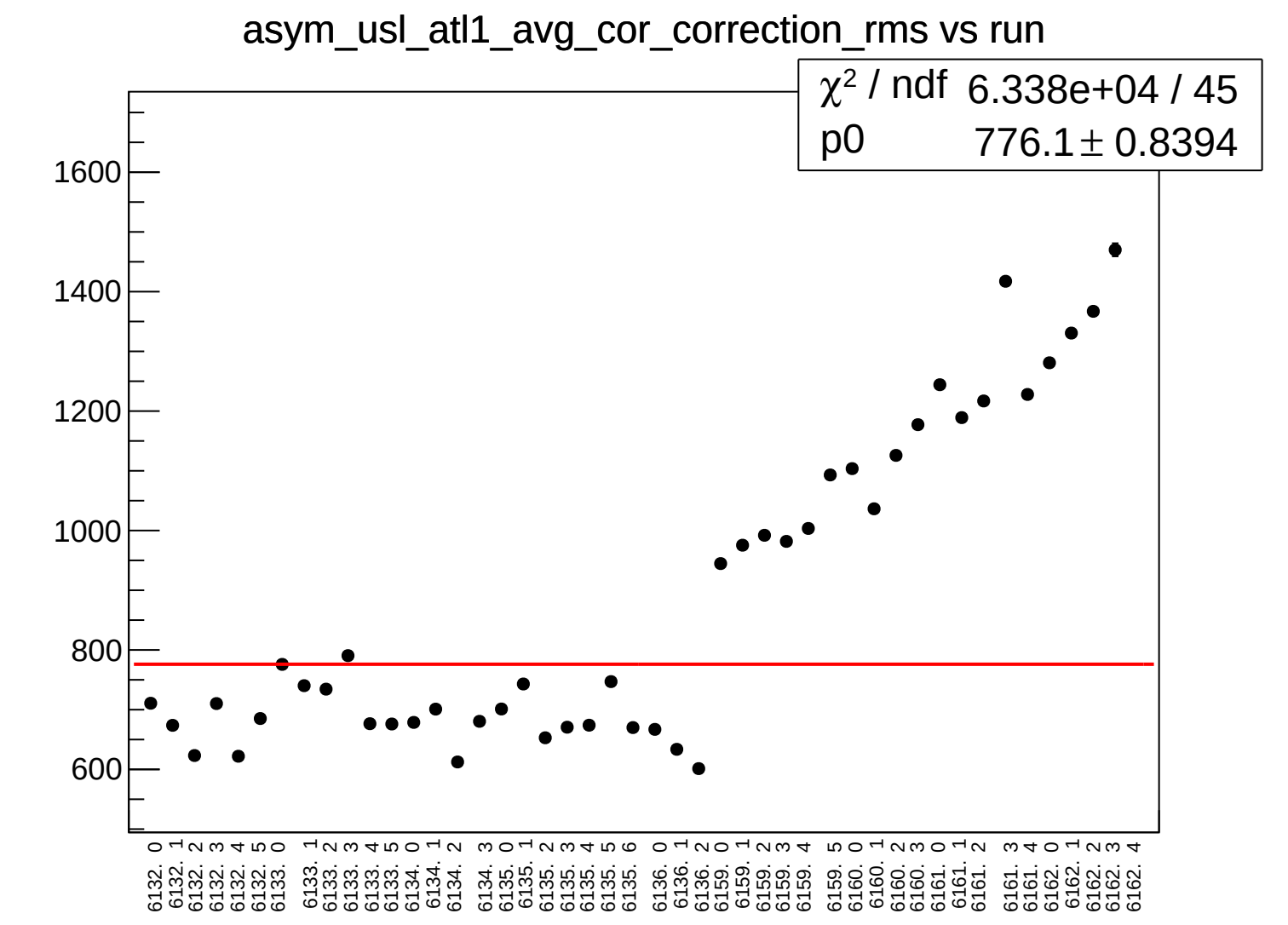
6162. 4


asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 49.89 / 45
p0 682.2 ± 1187
pull
Entries 46
Mean 103
Std Dev 0


pull1D
Entries 46
Mean −0.05993
Std Dev 1.04


asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 6.338e+04 / 45
p0 776.1 ± 0.8394
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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
6159. 5
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6160. 1
6160. 2
6160. 3
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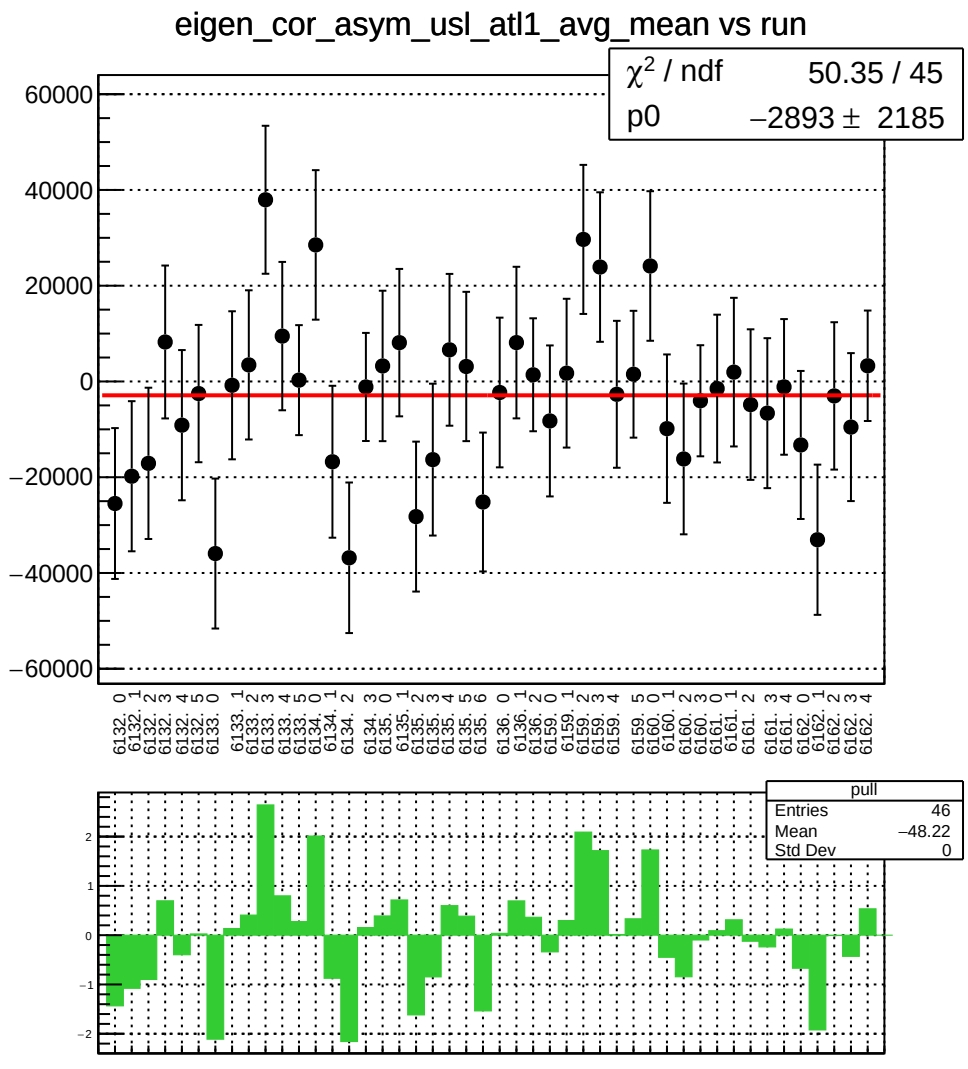
6162. 4


eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 50.35 / 45
p0 −2893 ± 2185
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6134. 2
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6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −48.22
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.01078
Std Dev 1.046
14
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10
8
6
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2
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−4
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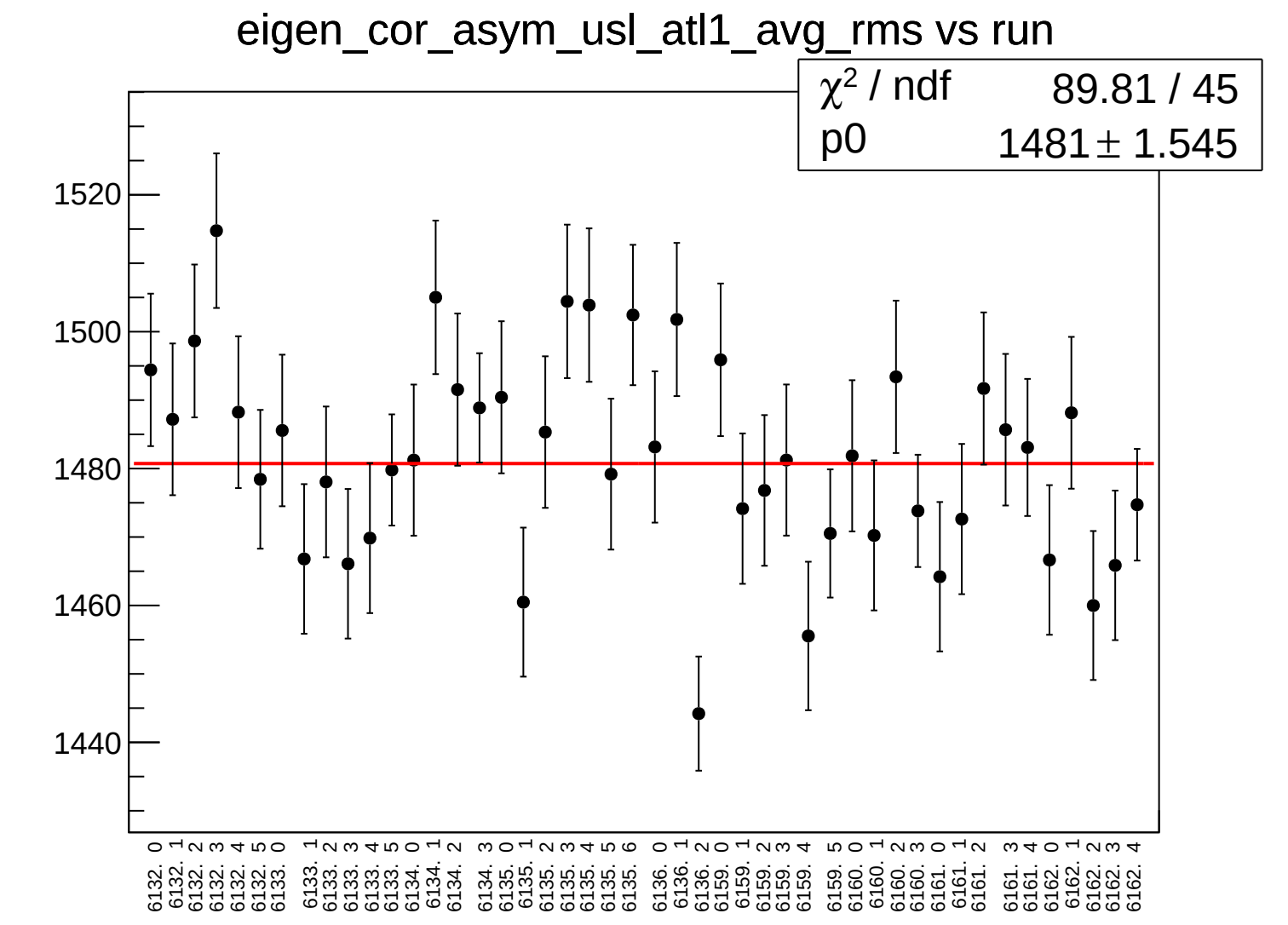
2
4
6
8


eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 89.81 / 45
p0 1481 ± 1.545
1520
1500
1480
1460
1440
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 2
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6133. 4
6133. 5
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6134. 2
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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
6159. 5
6160. 0
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6160. 2
6160. 3
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6161. 2
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6161. 4
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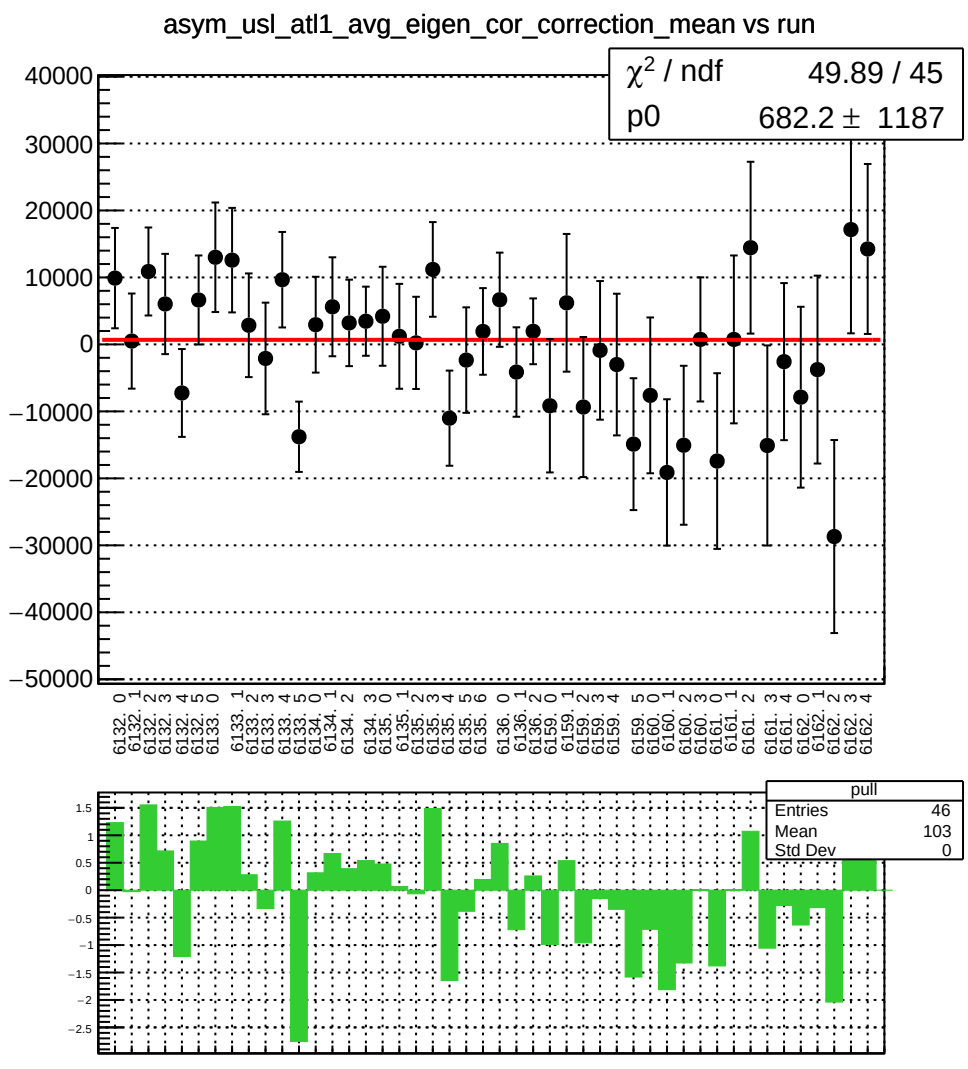
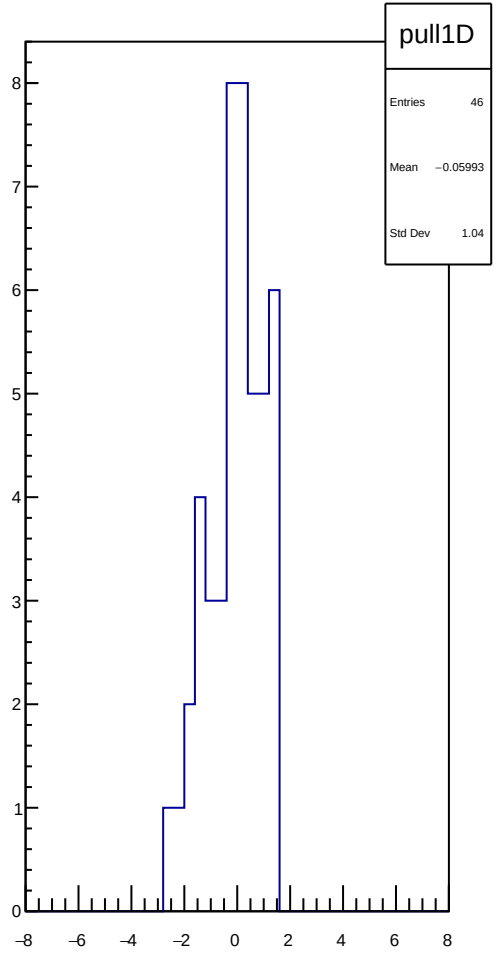
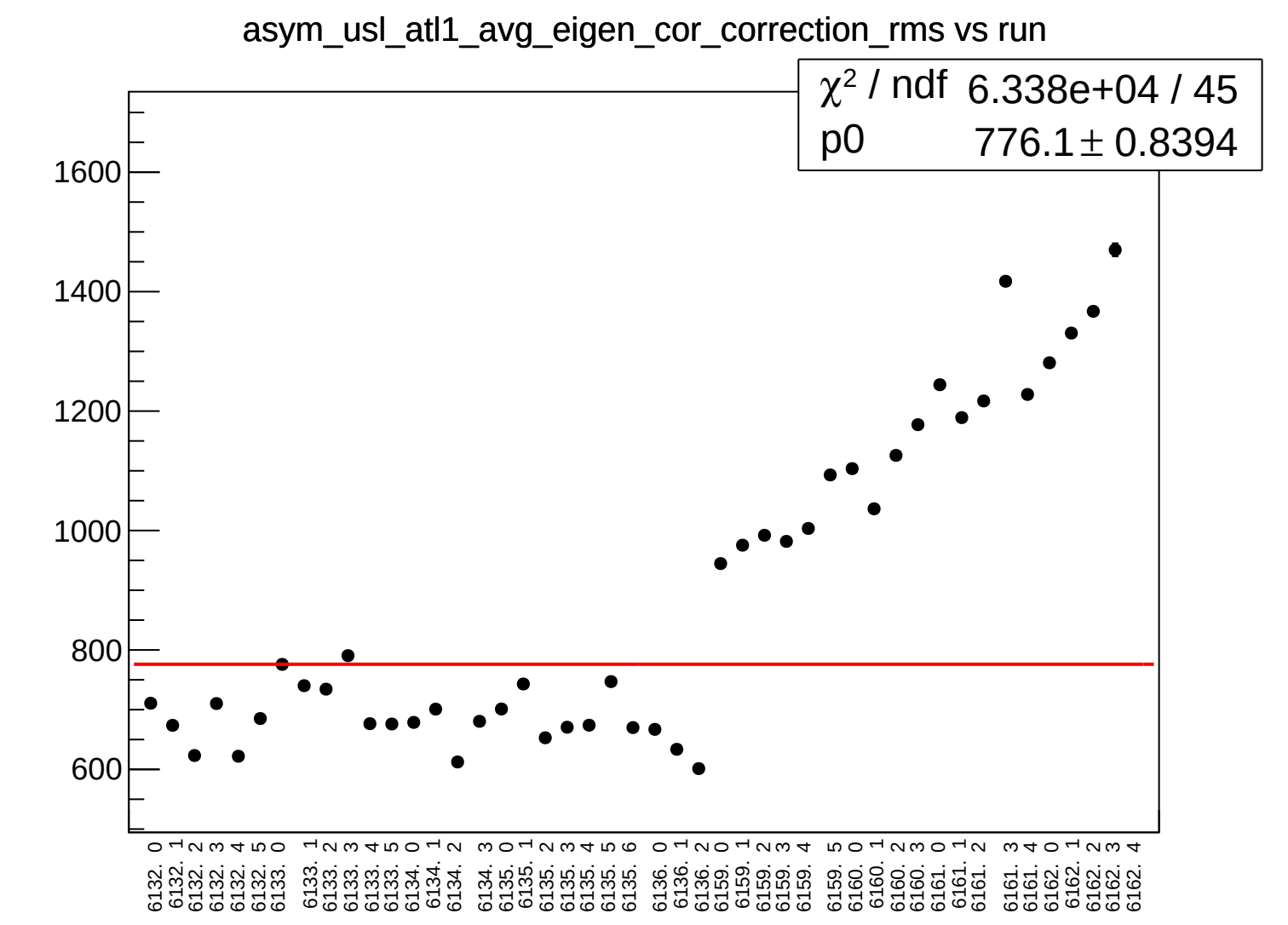
6162. 4


asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 49.89 / 45
p0 682.2 ± 1187
pull
Entries 46
Mean 103
Std Dev 0


pull1D
Entries 46
Mean −0.05993
Std Dev 1.04


asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.338e+04 / 45
p0 776.1 ± 0.8394
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6159. 5
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6160. 2
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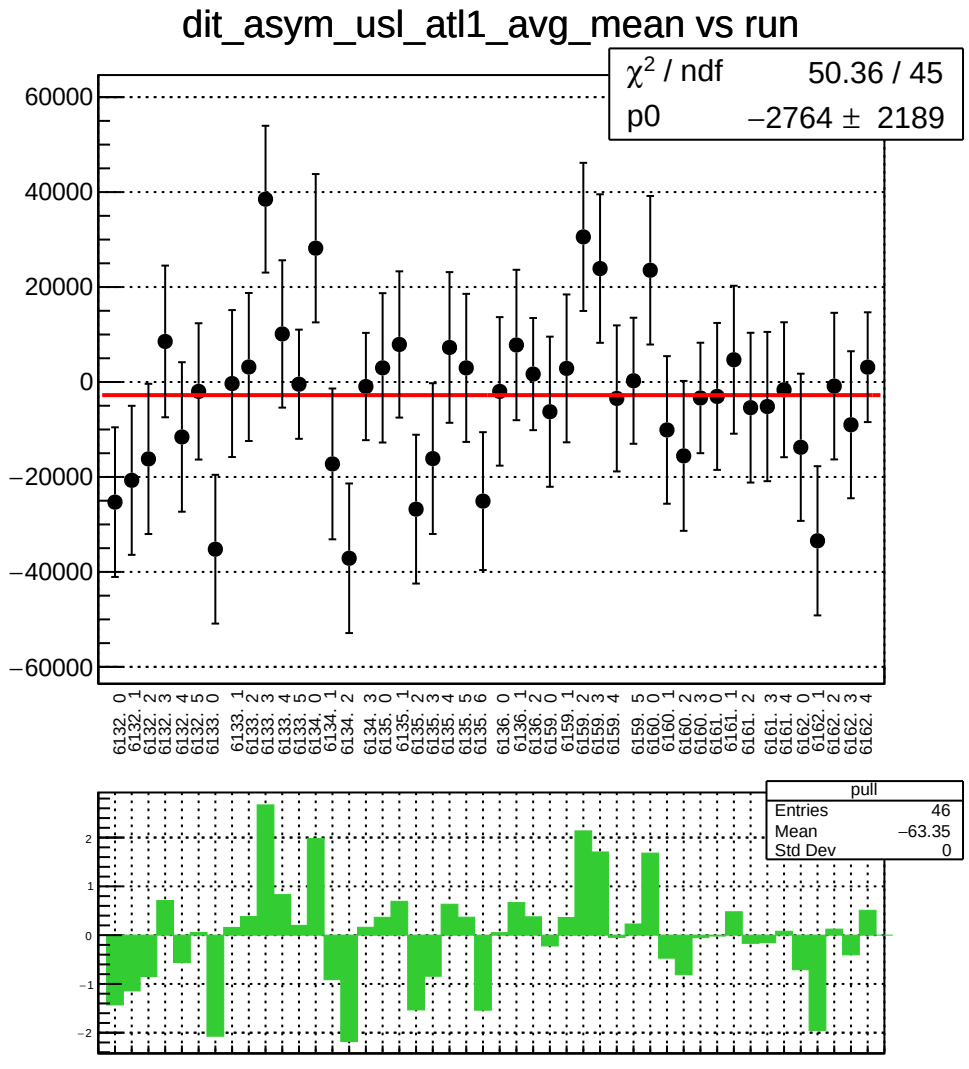
dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 50.36 / 45
p0 −2764 ± 2189
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −63.35
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.01011
Std Dev 1.046
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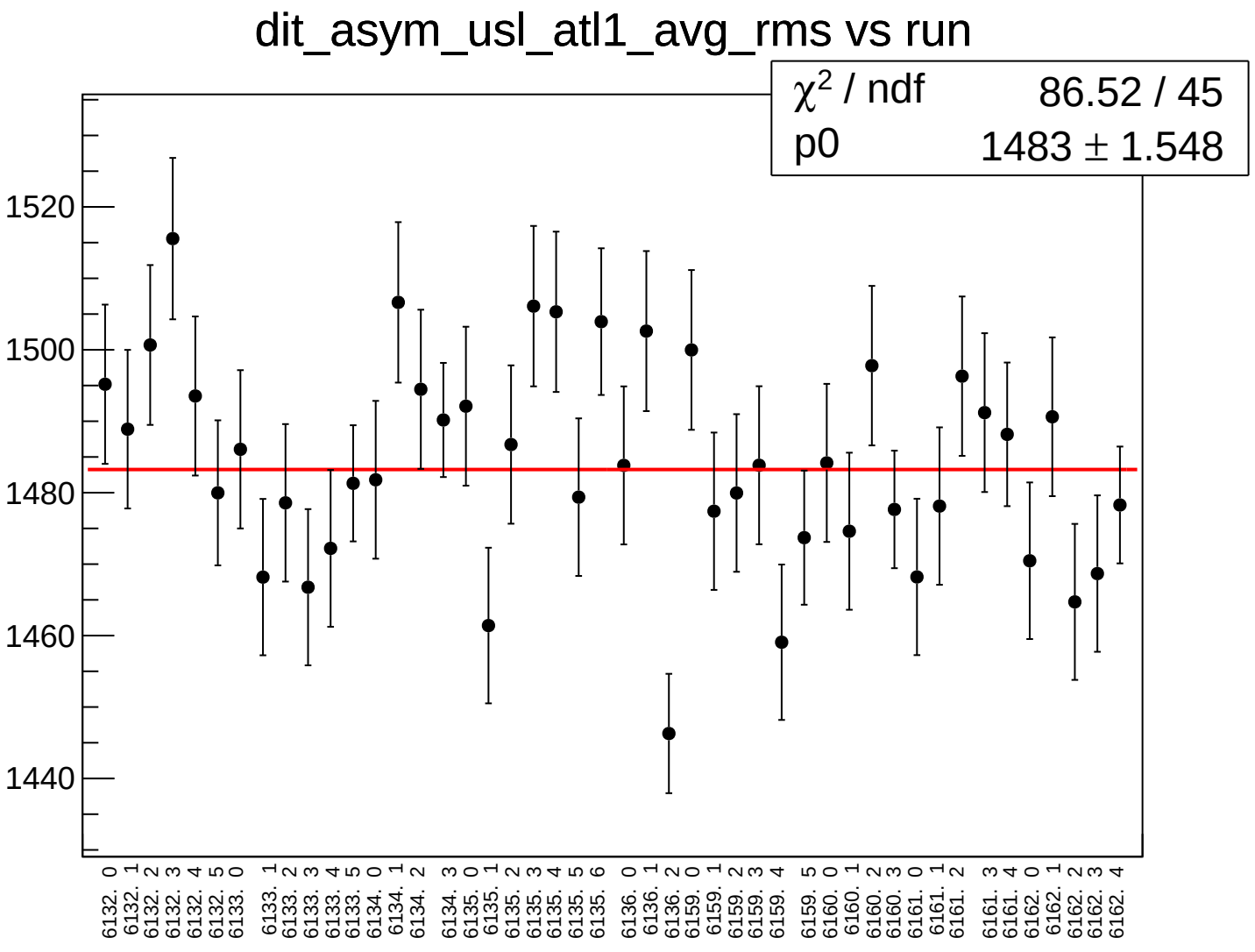
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 86.52 / 45
p0 1483 ± 1.548
1520
1500
1480
1460
1440
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6160. 2
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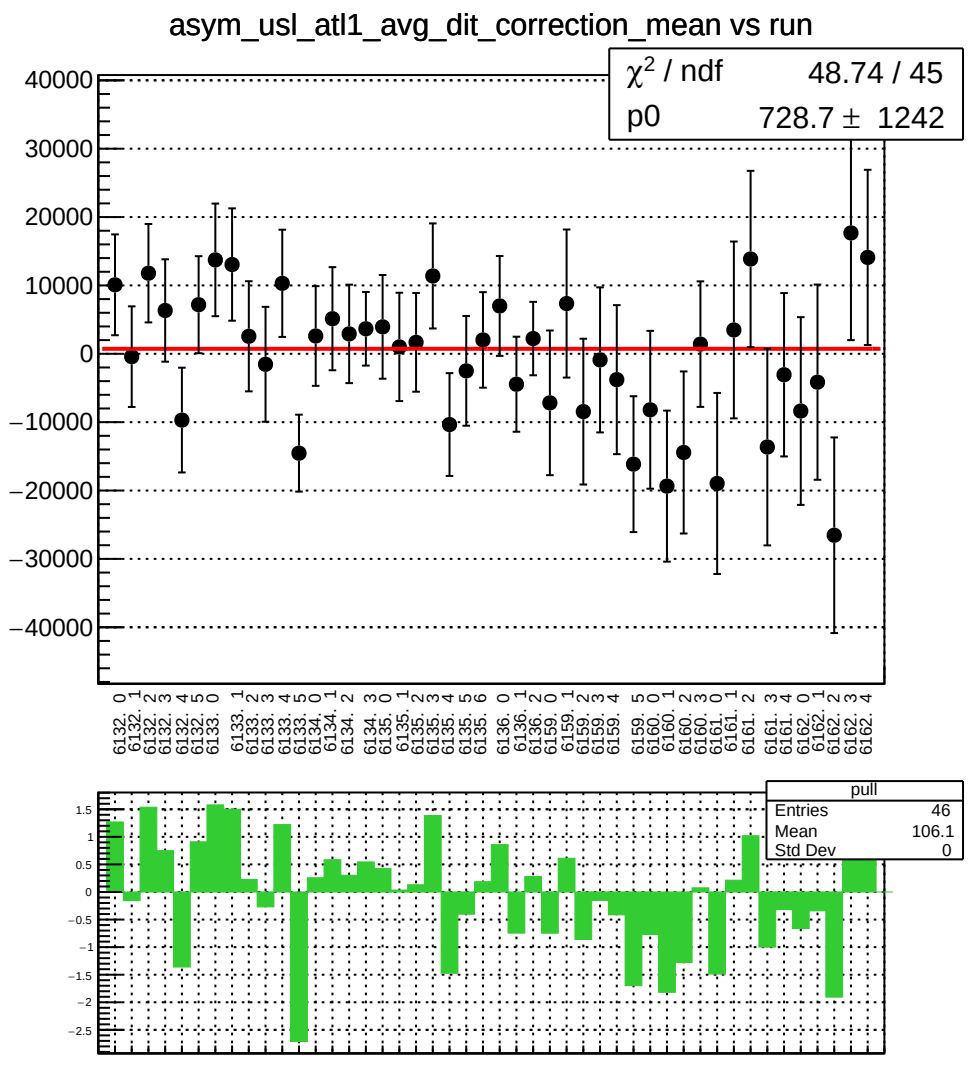
6162. 4


asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 48.74 / 45
p0 728.7 ± 1242
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
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6135. 1
6135. 2
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6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
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6159. 2
6159. 3
6159. 4
6159. 5
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6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 106.1
Std Dev 0
1.5
1
0.5
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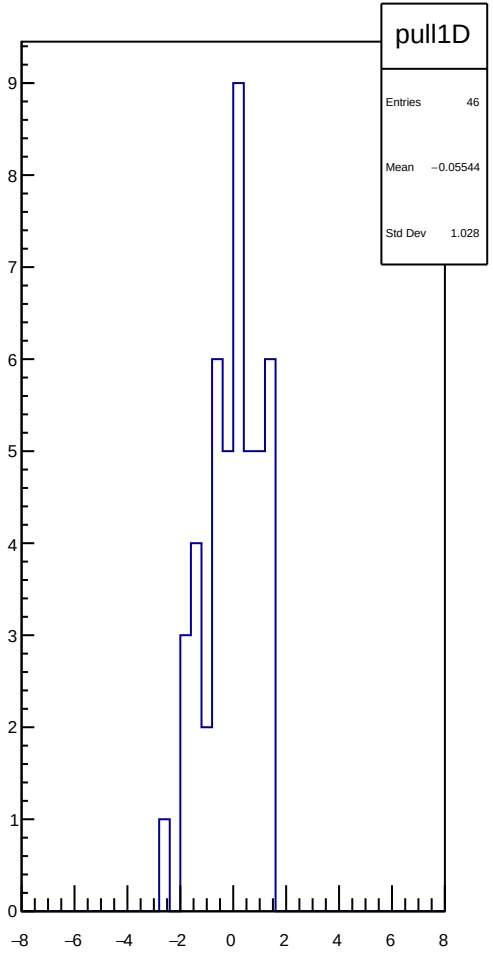
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.05544
Std Dev 1.028
9
8
7
6
5
4
3
2
1
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−8
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−4
−2
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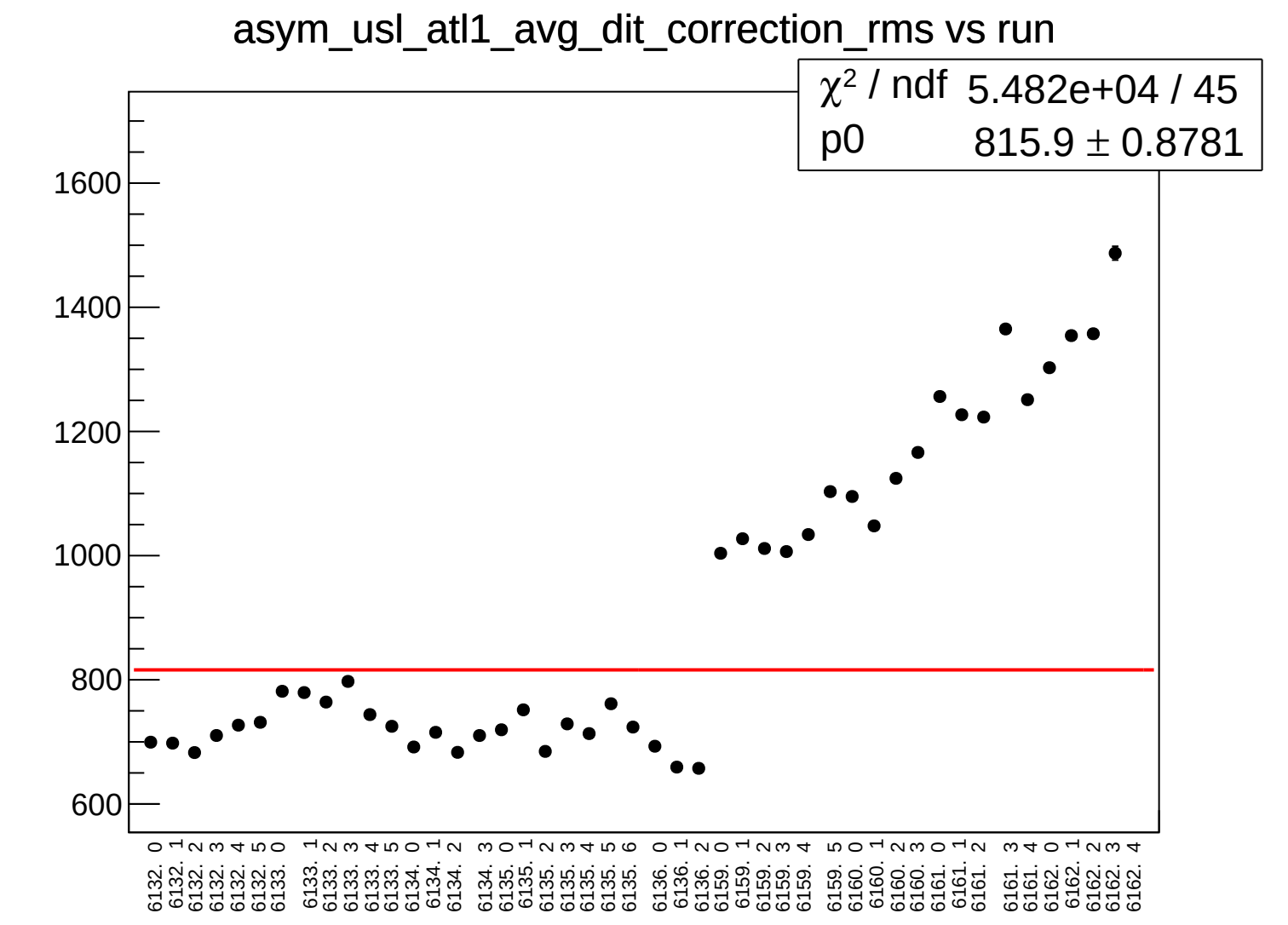
2
4
6
8


asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 5.482e+04 / 45
p0 815.9 ± 0.8781
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6160. 0
6160. 1
6160. 2
6160. 3
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6161. 4
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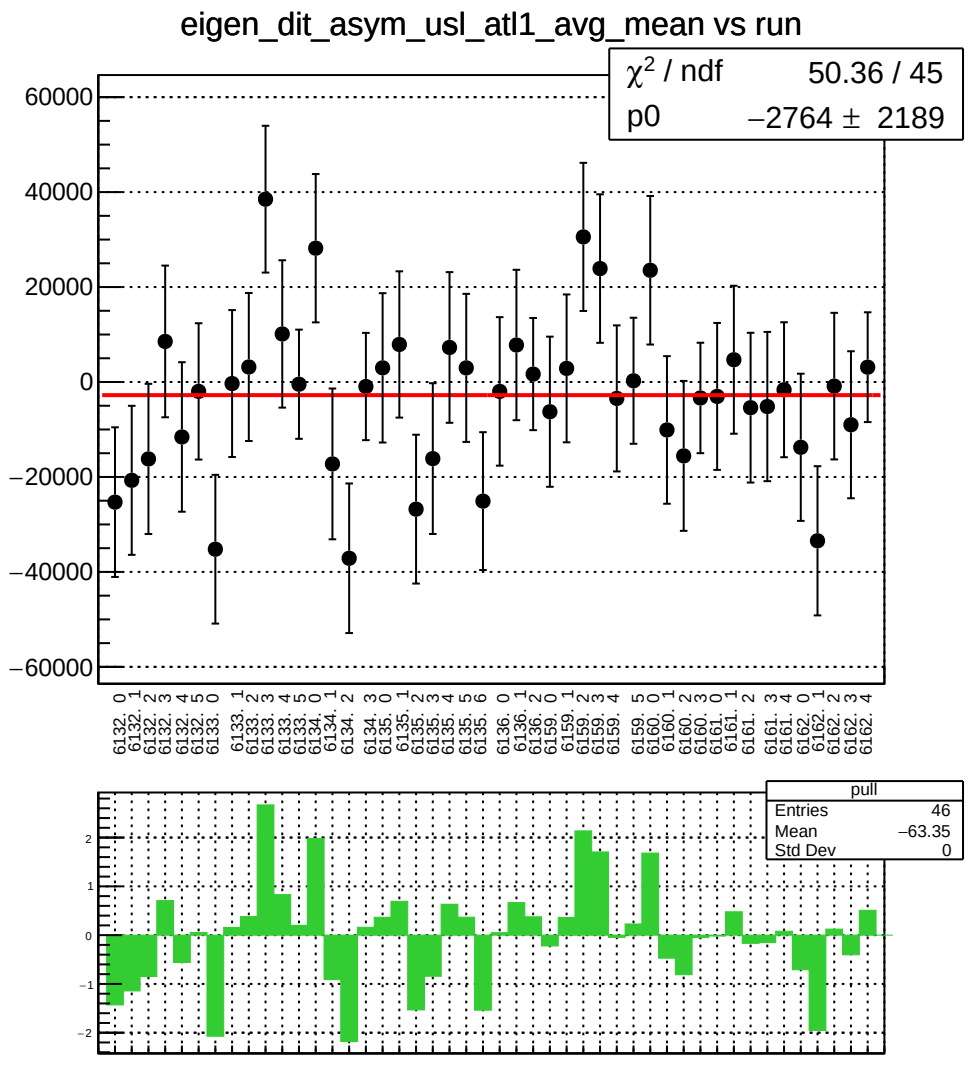
eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 50.36 / 45
p0 −2764 ± 2189
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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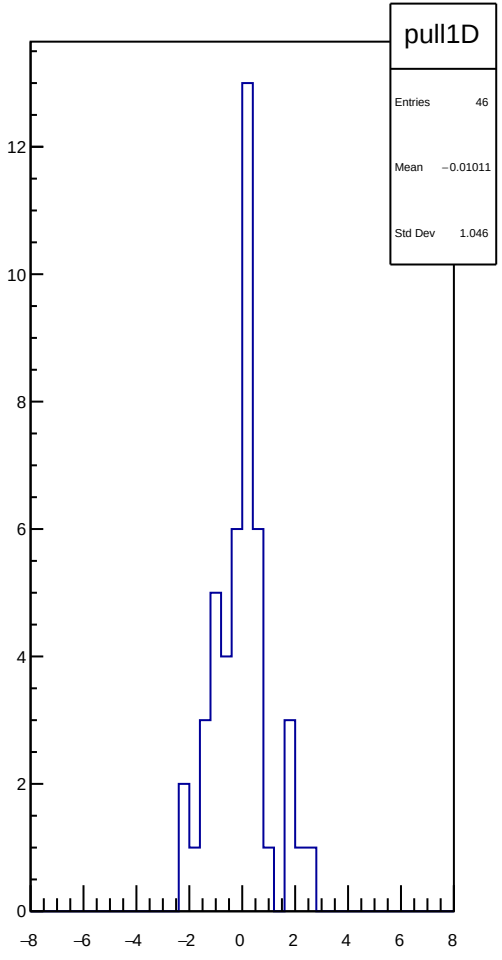
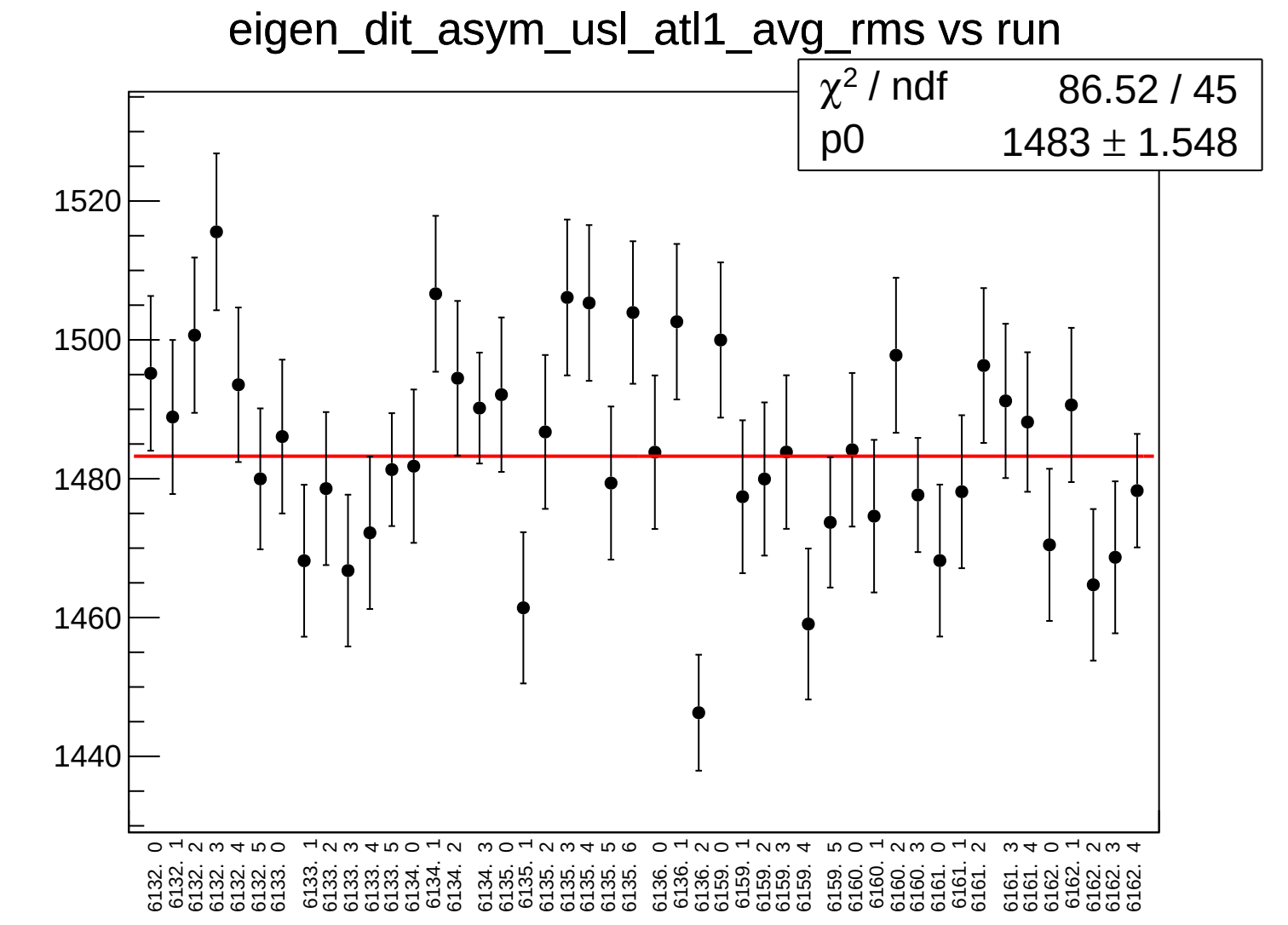
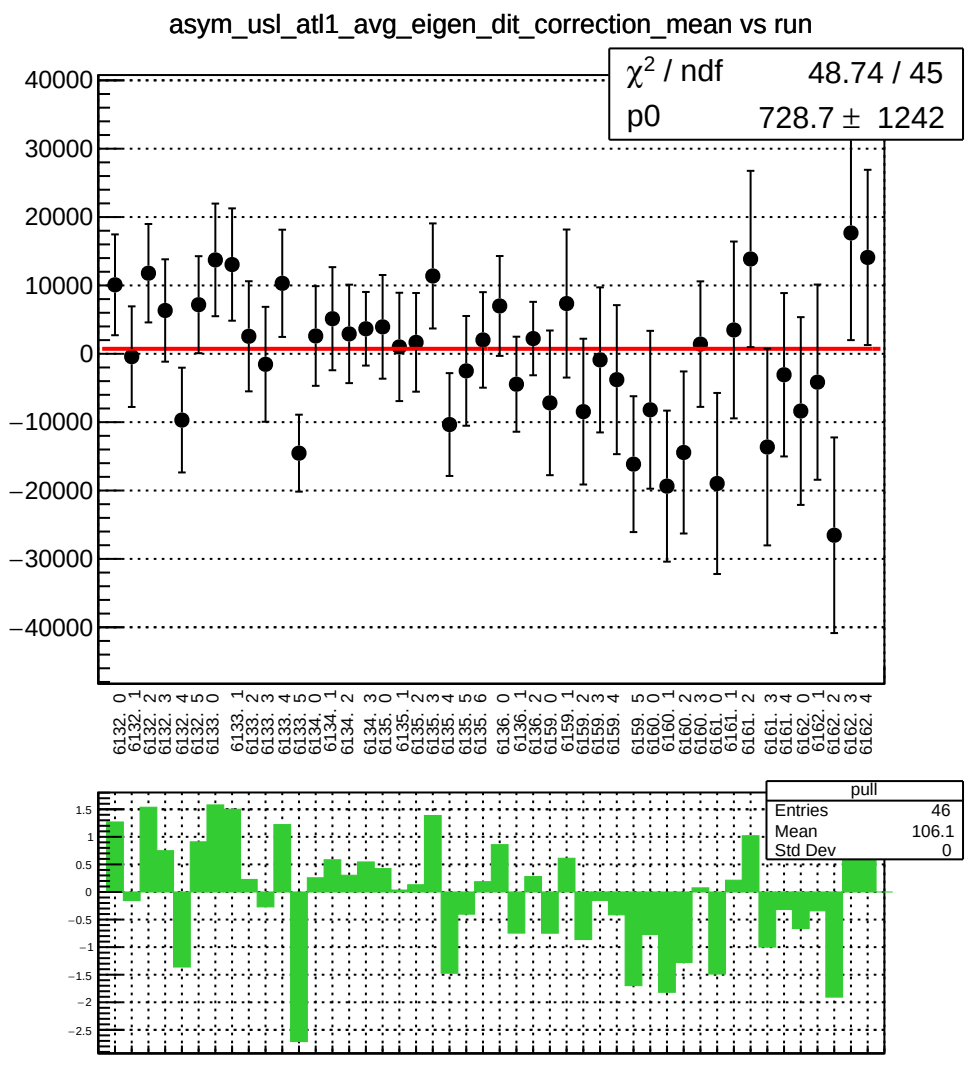
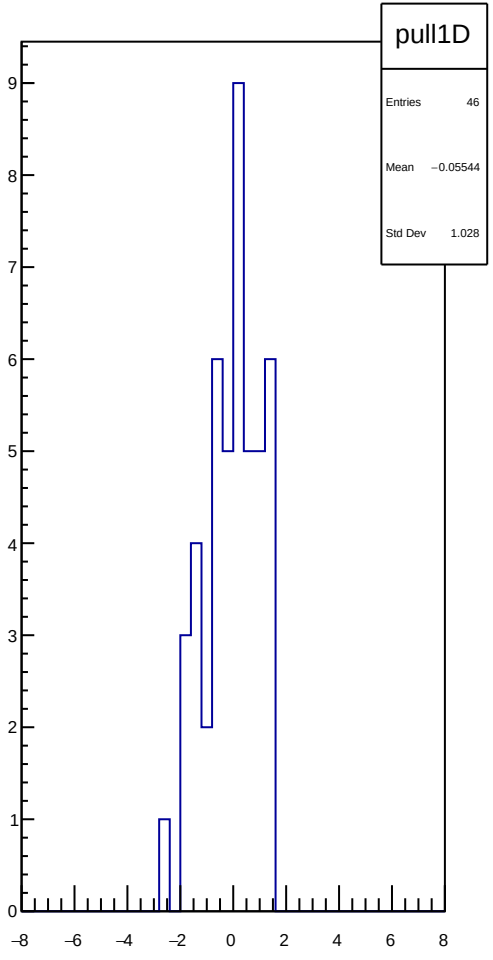
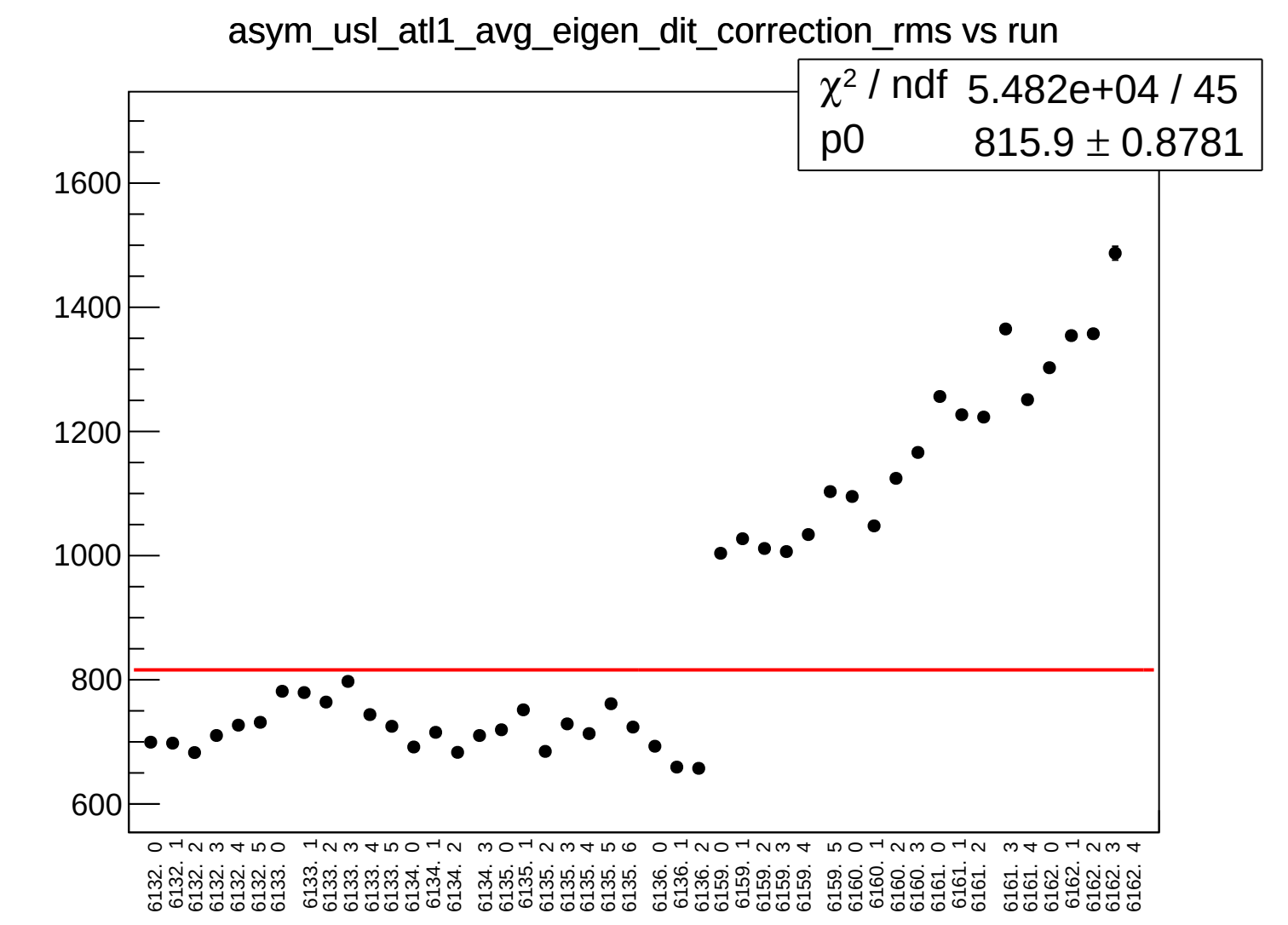
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −63.35
Std Dev 0
2
1
0
−1
−2

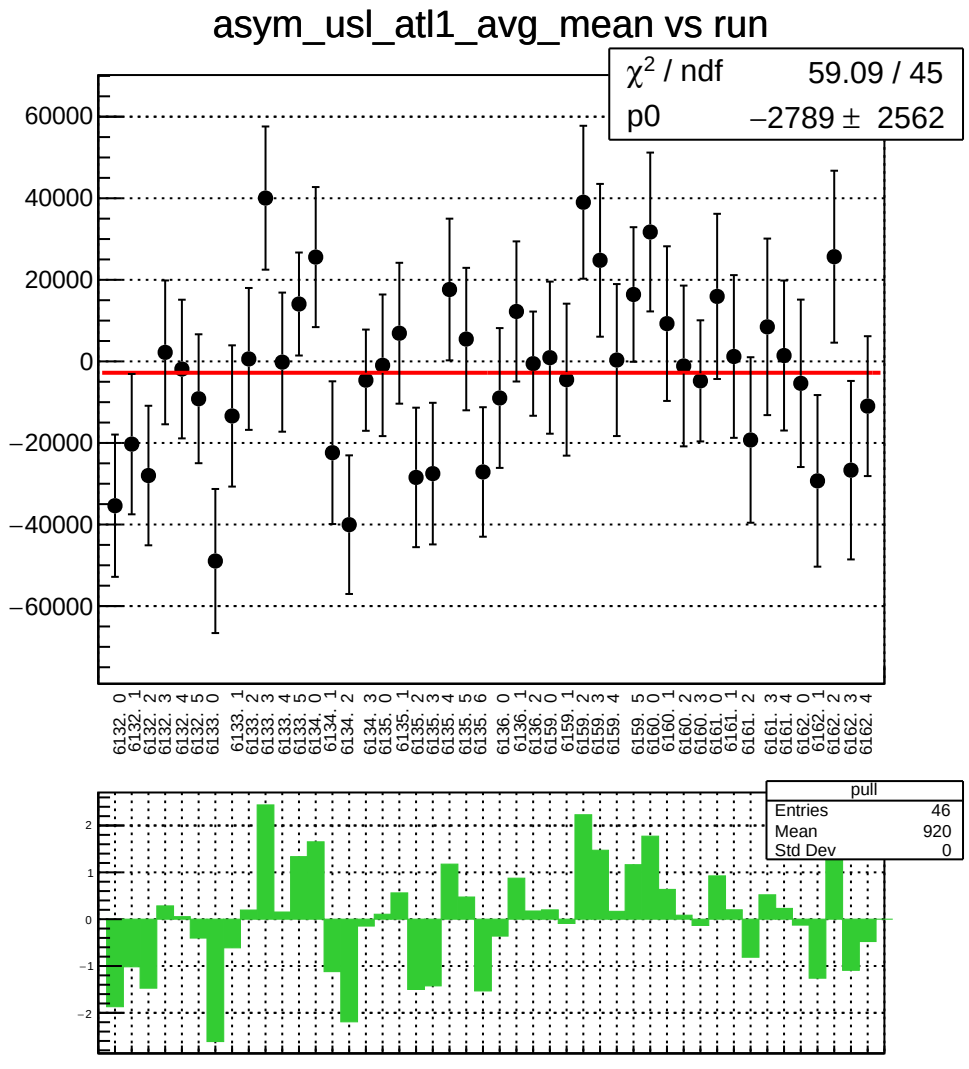

pull1D
Entries 46
Mean −0.01011
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

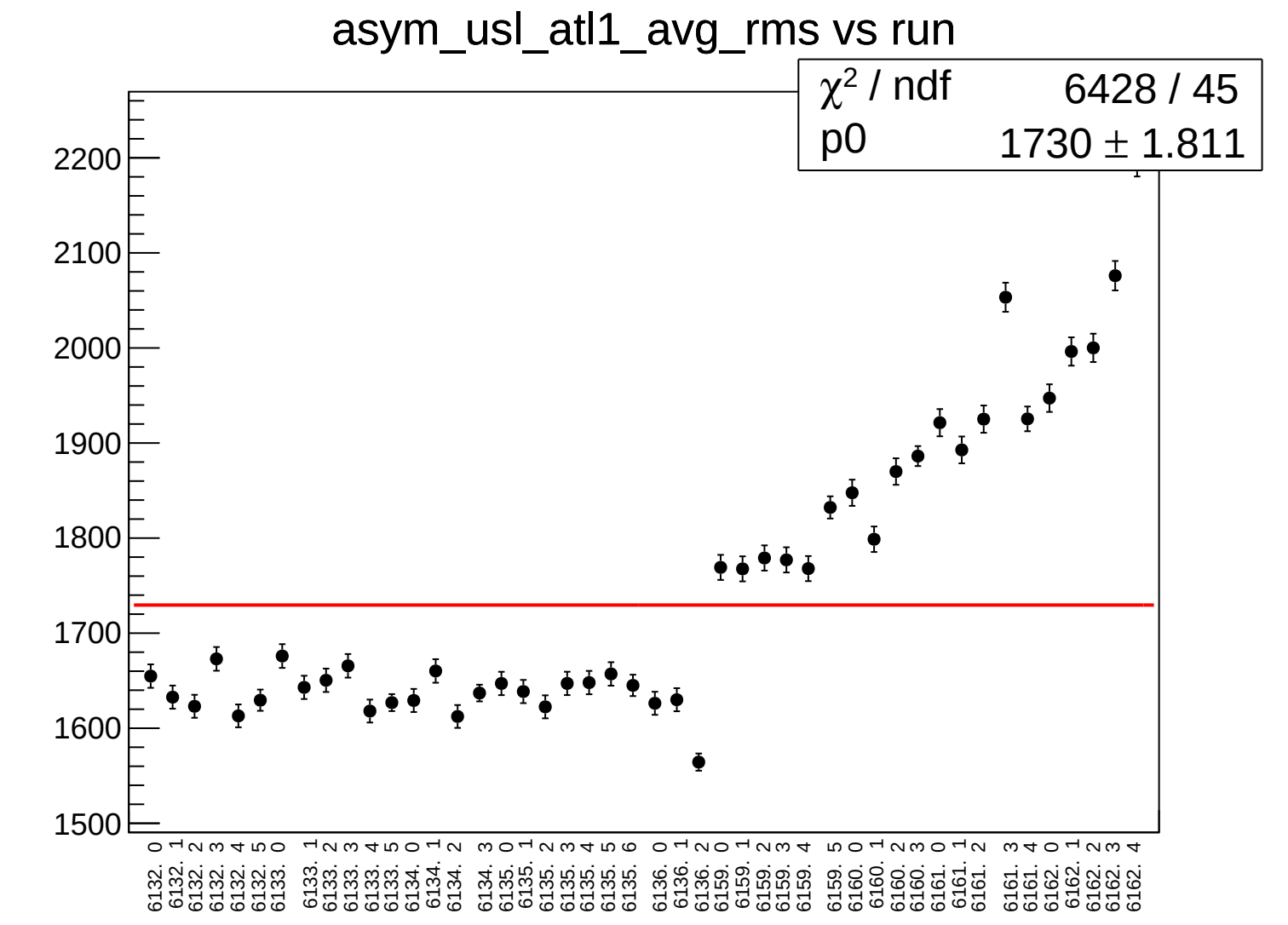

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 86.52 / 45
p0 1483 ± 1.548
1520
1500
1480
1460
1440
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

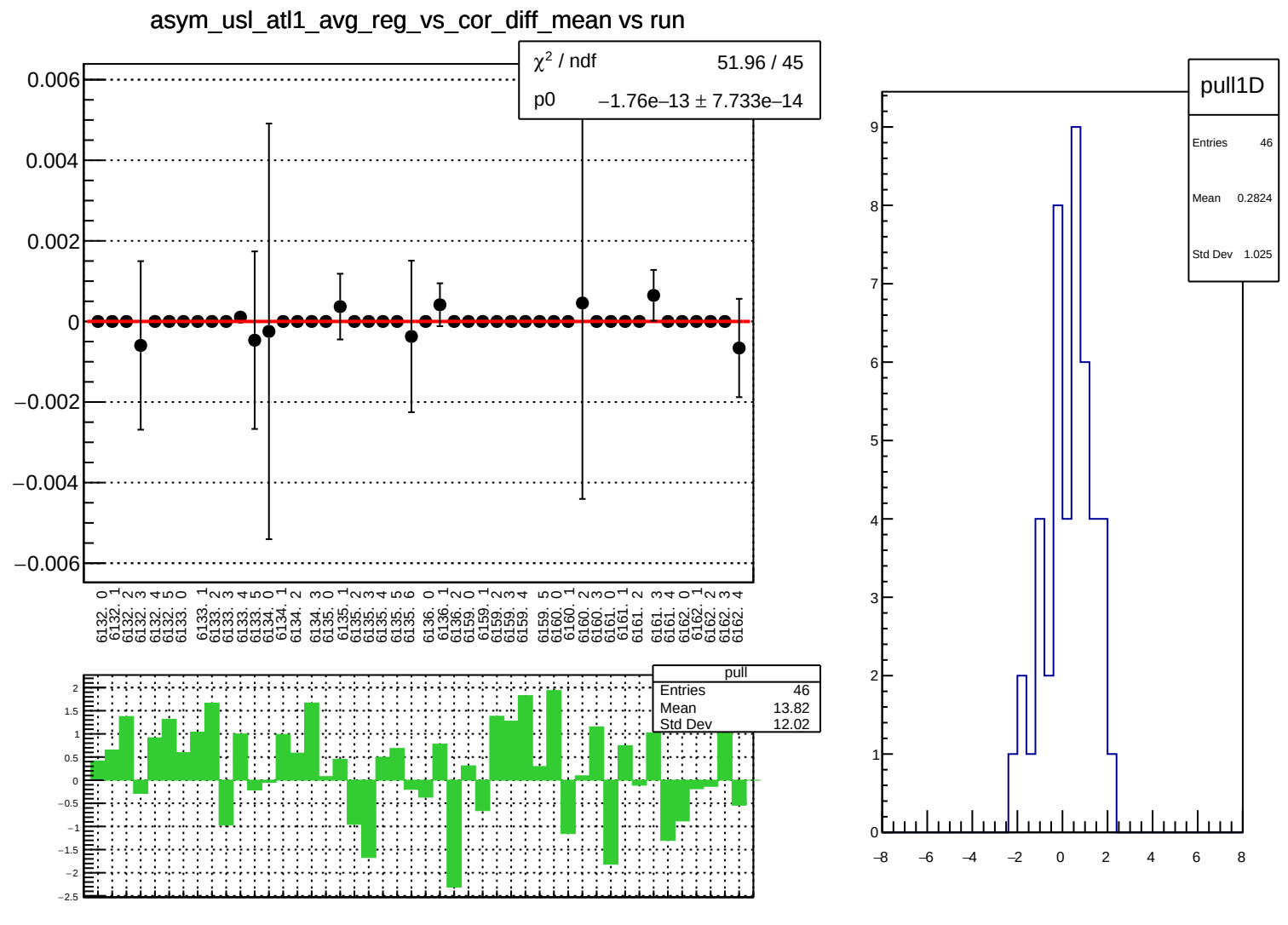

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 48.74 / 45
p0 728.7 ± 1242
pull
Entries 46
Mean 106.1
Std Dev 0

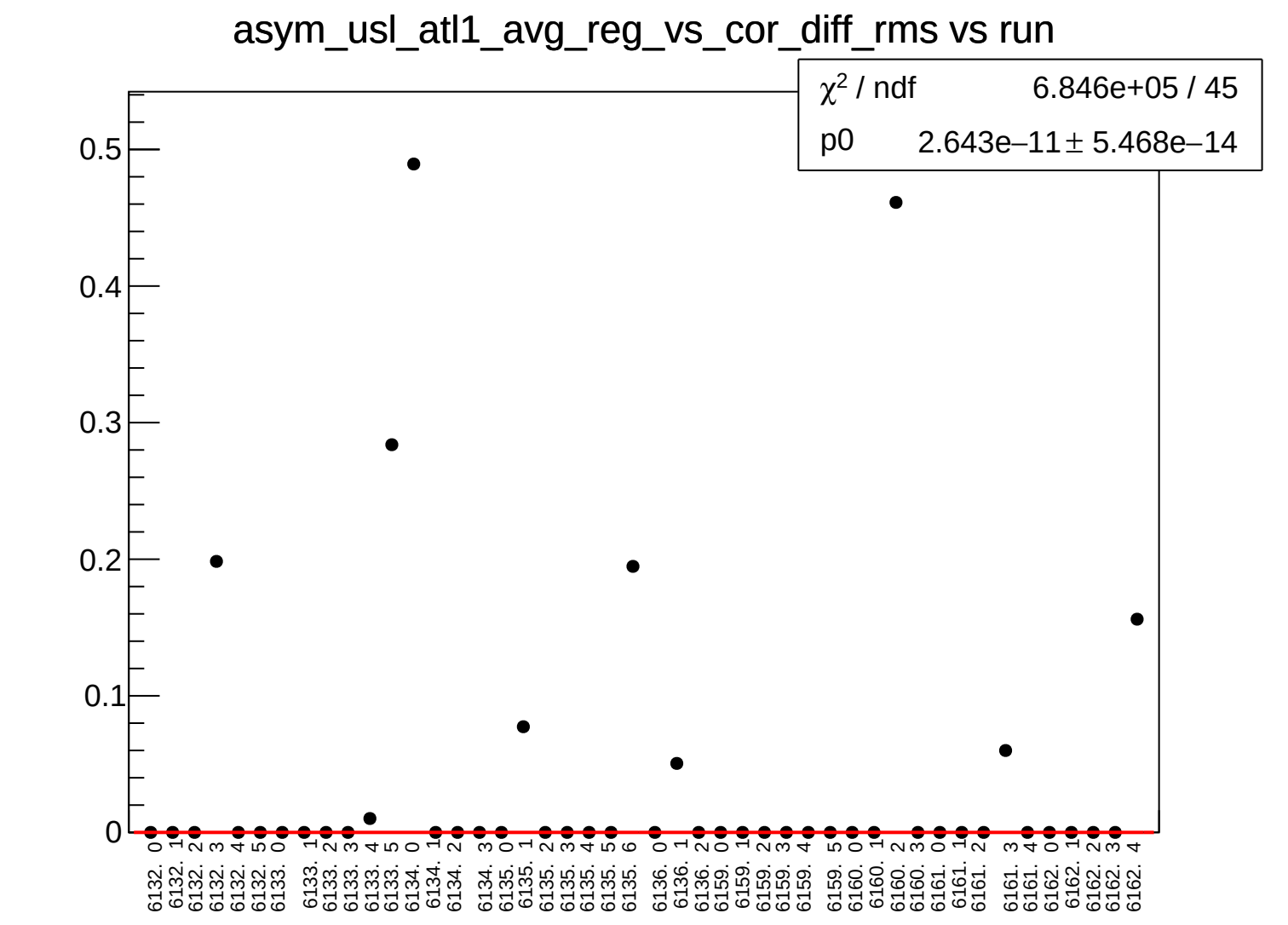

pull1D
Entries 46
Mean −0.05544
Std Dev 1.028

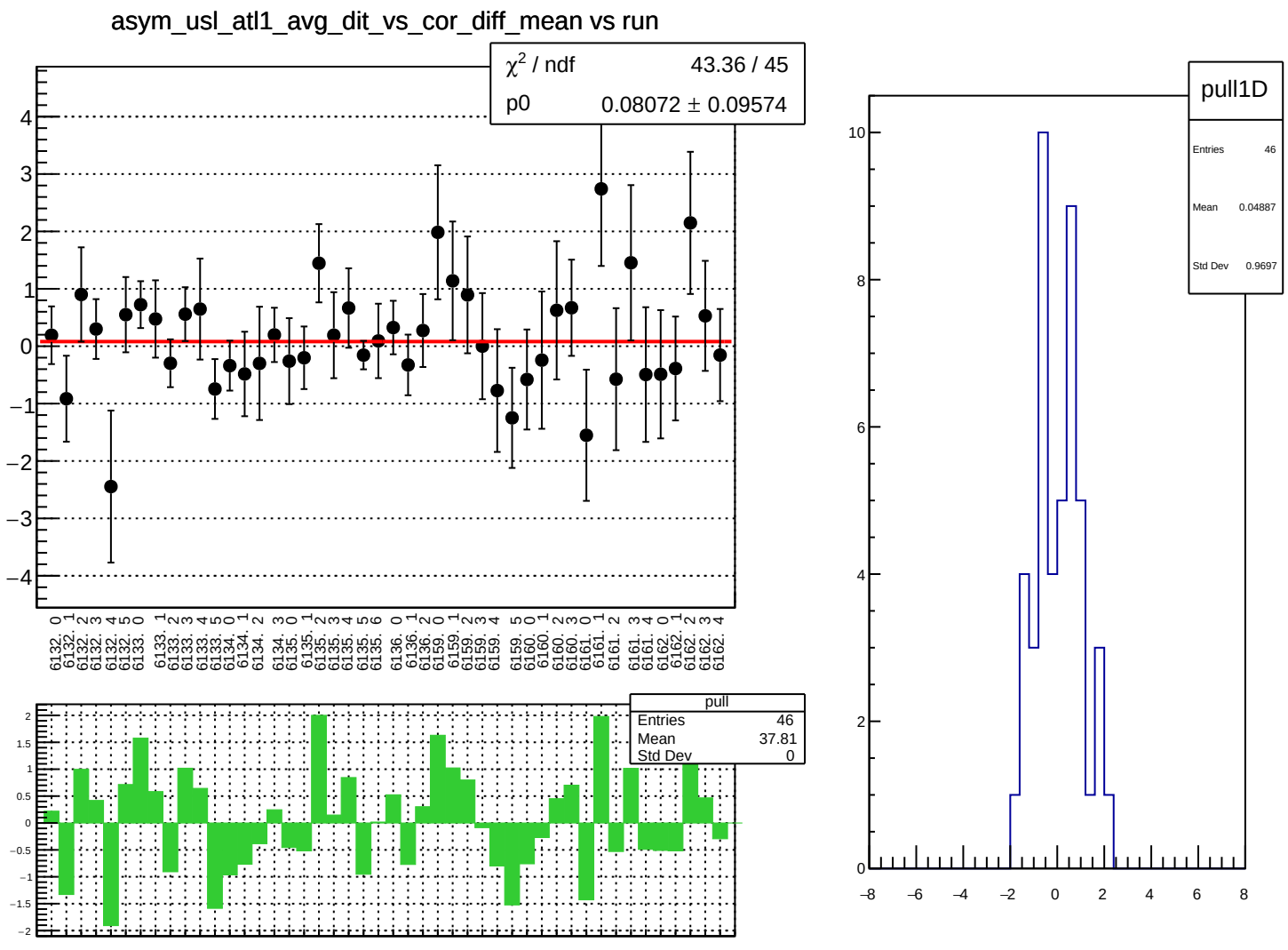

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.482e+04 / 45
p0 815.9 ± 0.8781
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

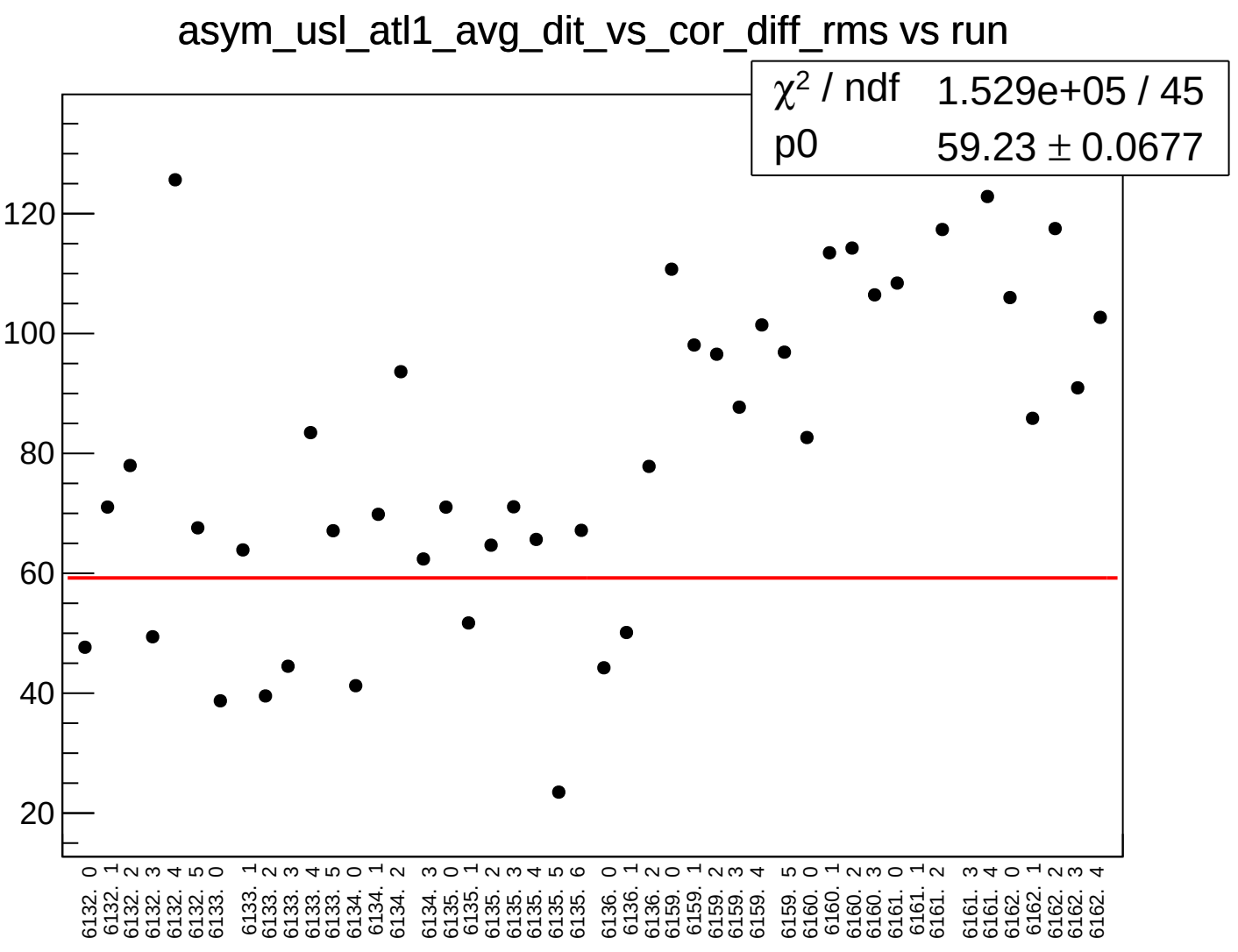

asym_usl_atl1_avg_mean vs run
χ² / ndf 59.09 / 45
p0 −2789 ± 2562
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 920
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.003682
Std Dev 1.133
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

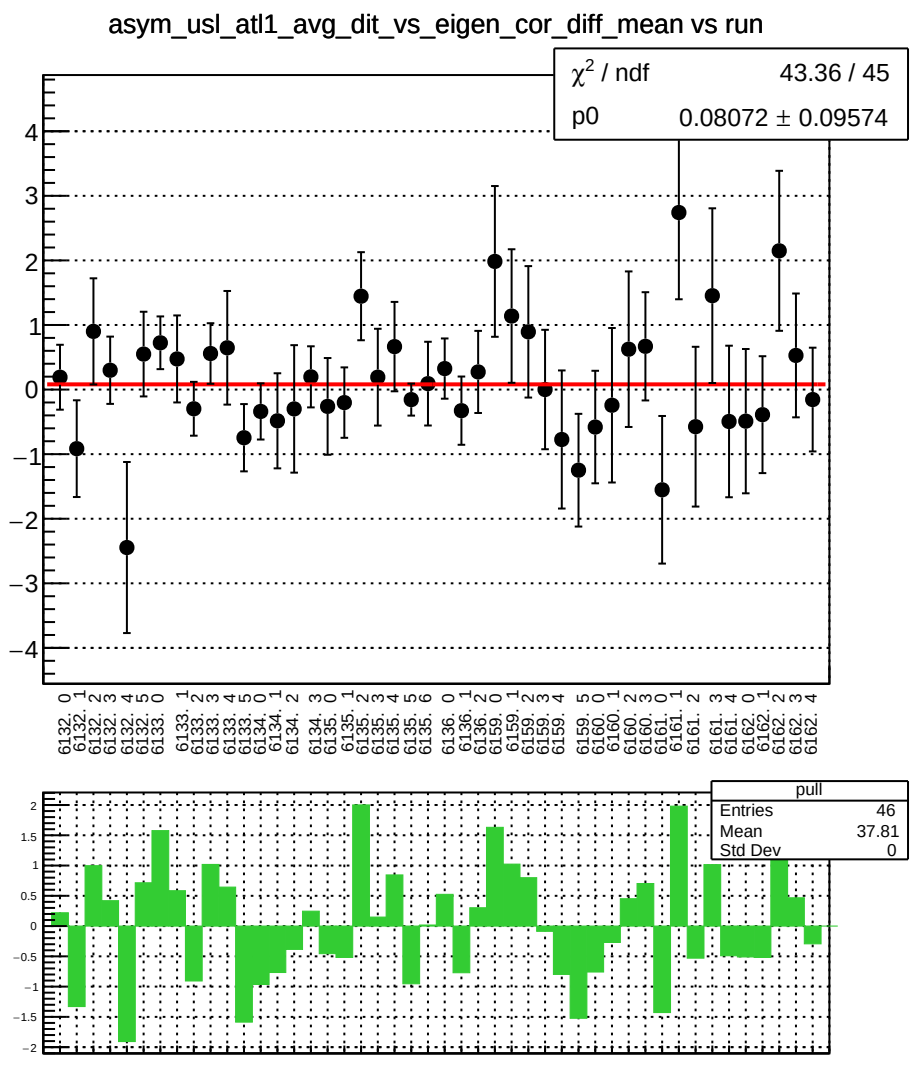

asym_usl_atl1_avg_rms vs run
χ² / ndf 6428 / 45
p0 1730 ± 1.811
2200
2100
2000
1900
1800
1700
1600
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

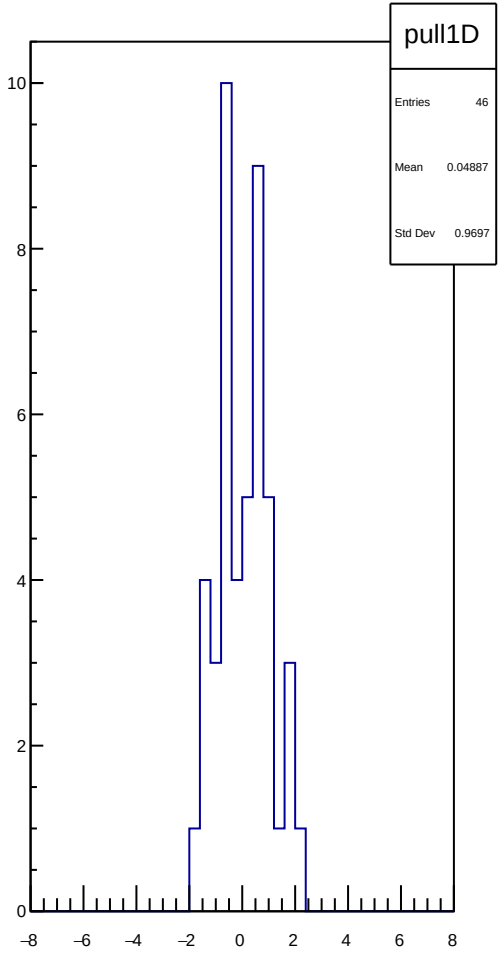

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 51.96 / 45
p0 −1.76e−13 ± 7.733e−14
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 13.82
Std Dev 12.02
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean 0.2824
Std Dev 1.025
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

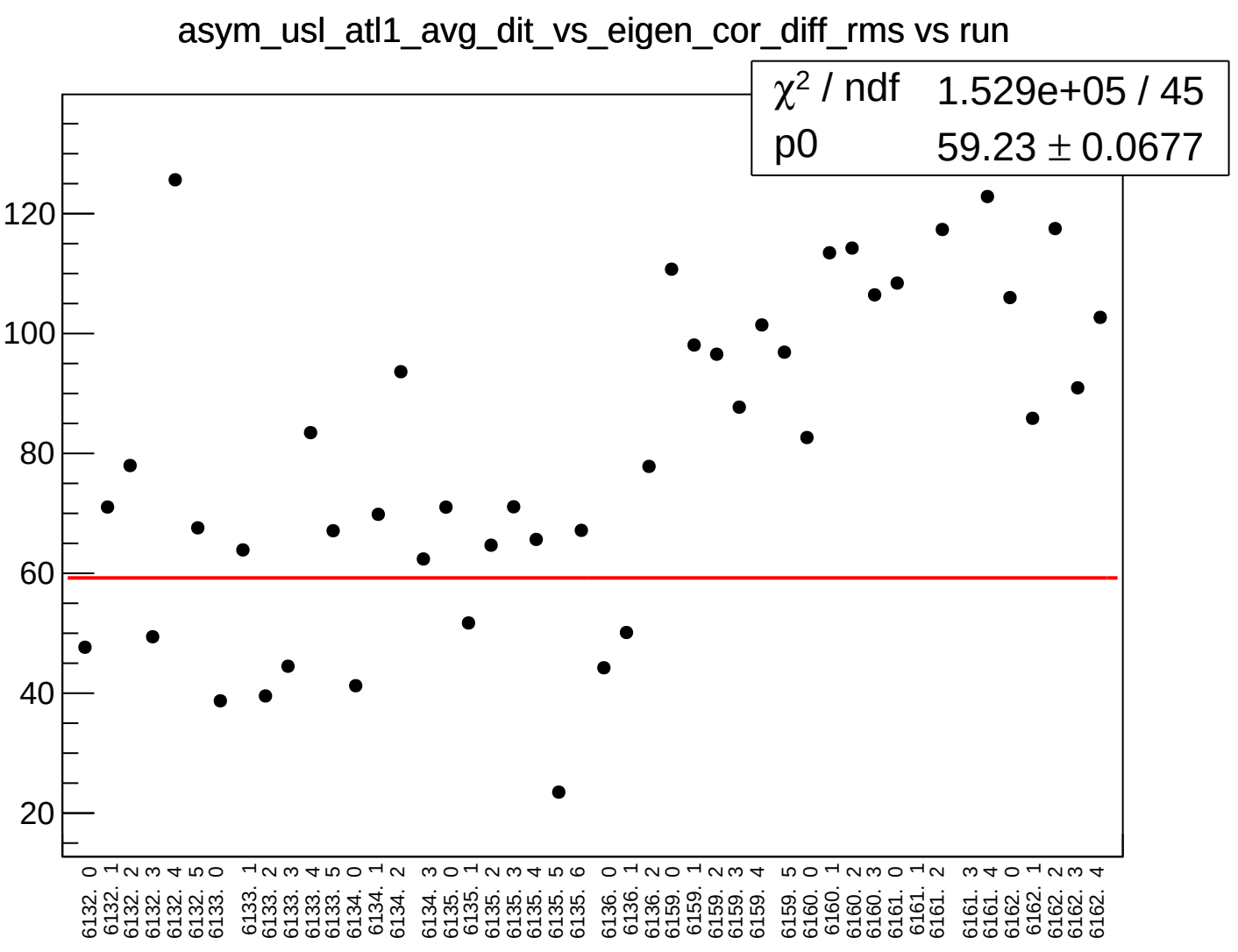

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.846e+05 / 45
p0 2.643e−11 ± 5.468e−14
0.5
0.4
0.3
0.2
0.1
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

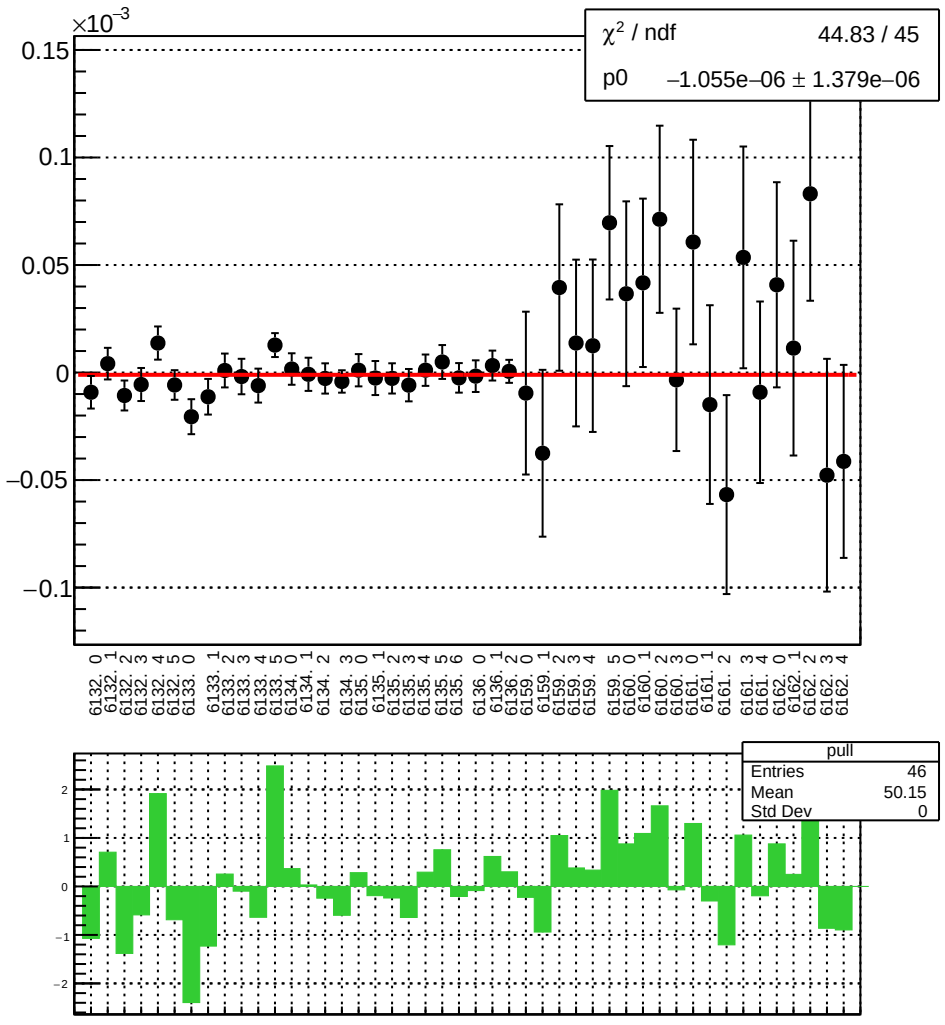

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 43.36 / 45
p0 0.08072 ± 0.09574
pull
Entries 46
Mean 37.81
Std Dev 0
pull1D
Entries 46
Mean 0.04887
Std Dev 0.9697

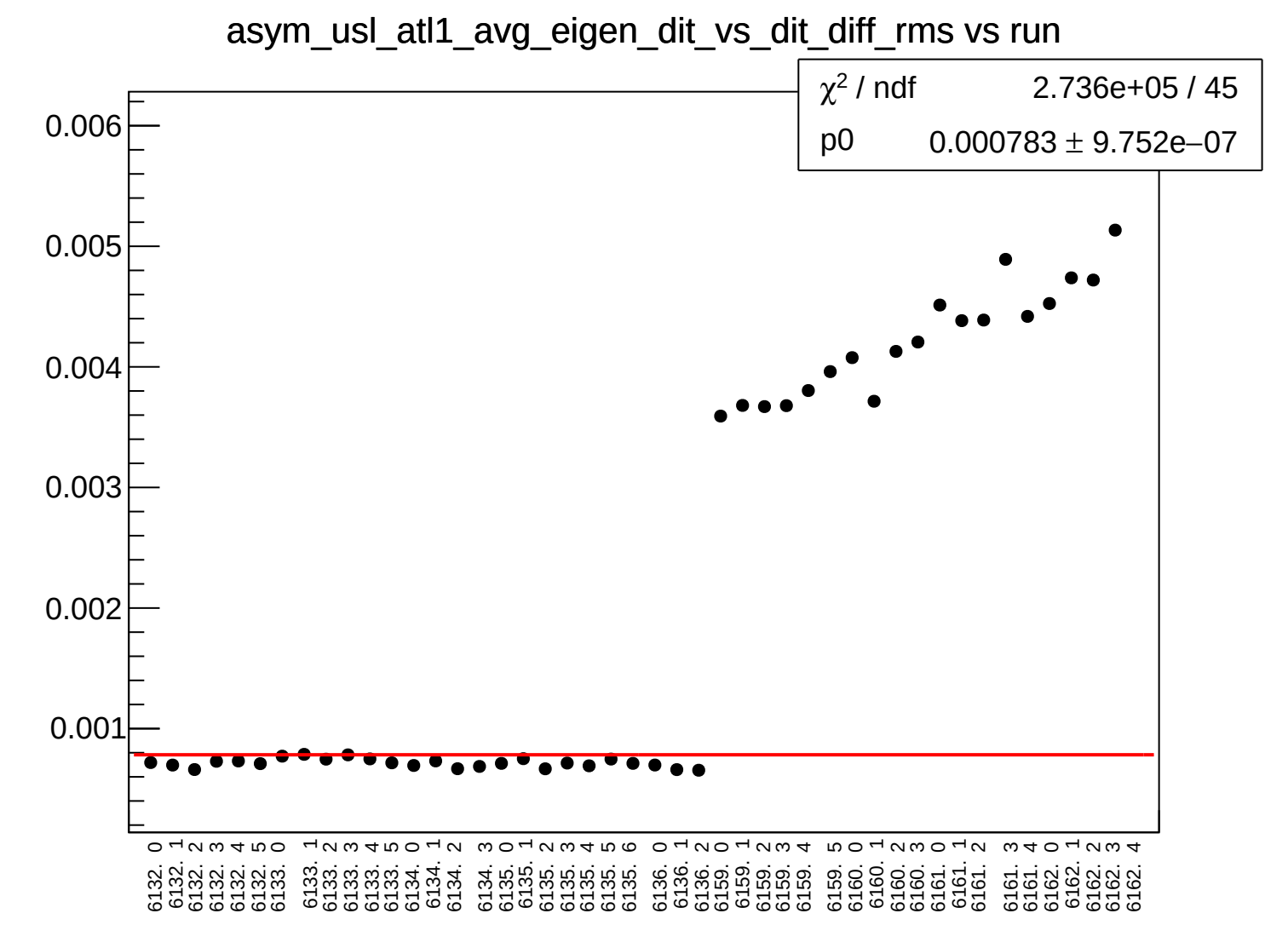

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.529e+05 / 45
p0 59.23 ± 0.0677
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

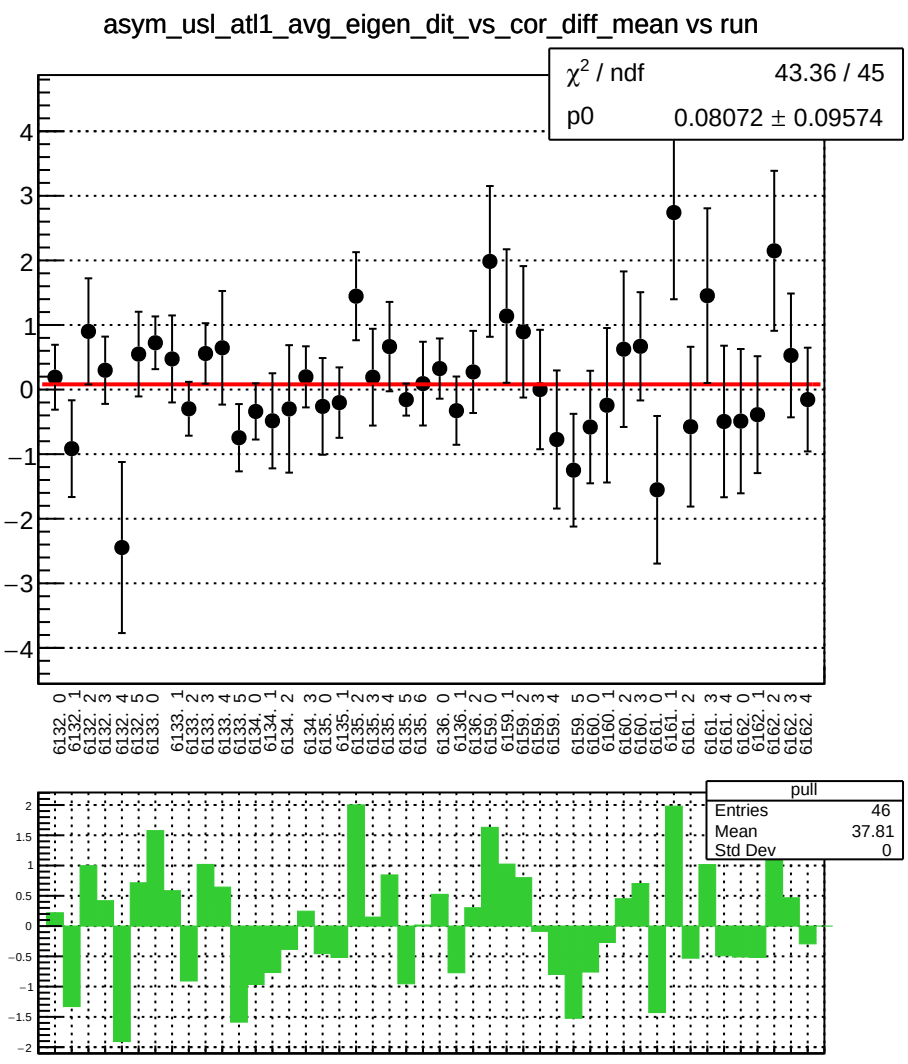

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.36 / 45
p0 0.08072 ± 0.09574
pull
Entries 46
Mean 37.81
Std Dev 0

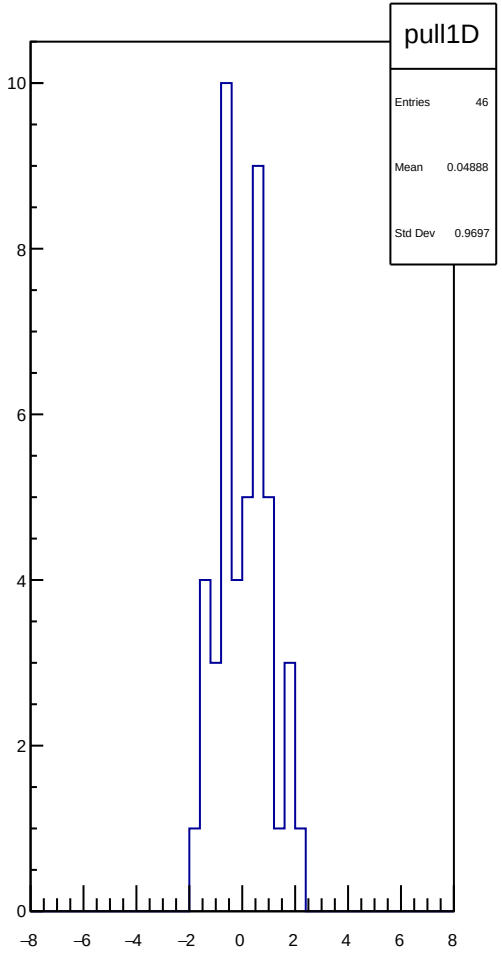

pull1D
Entries 46
Mean 0.04887
Std Dev 0.9697

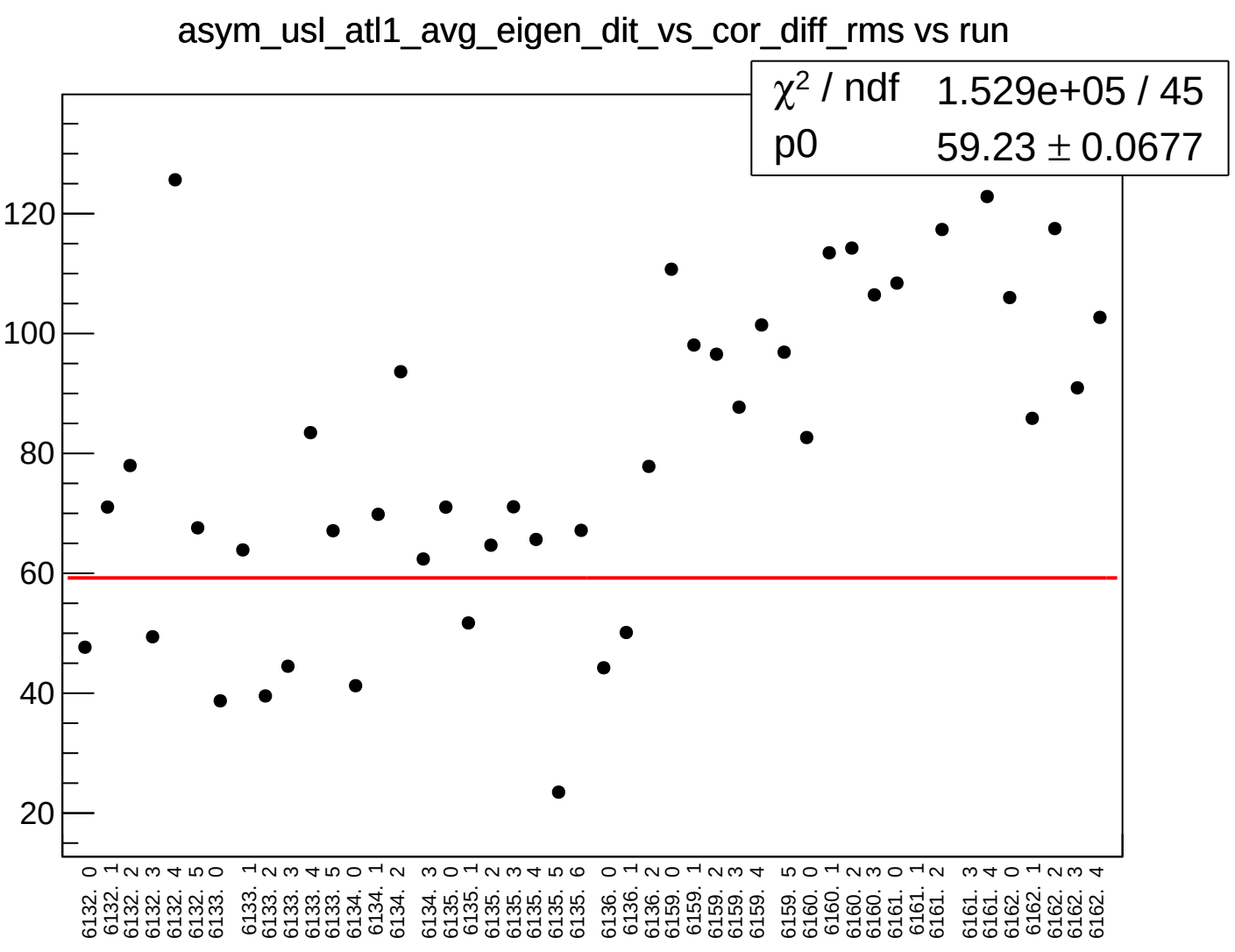

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.529e+05 / 45
p0 59.23 ± 0.0677
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

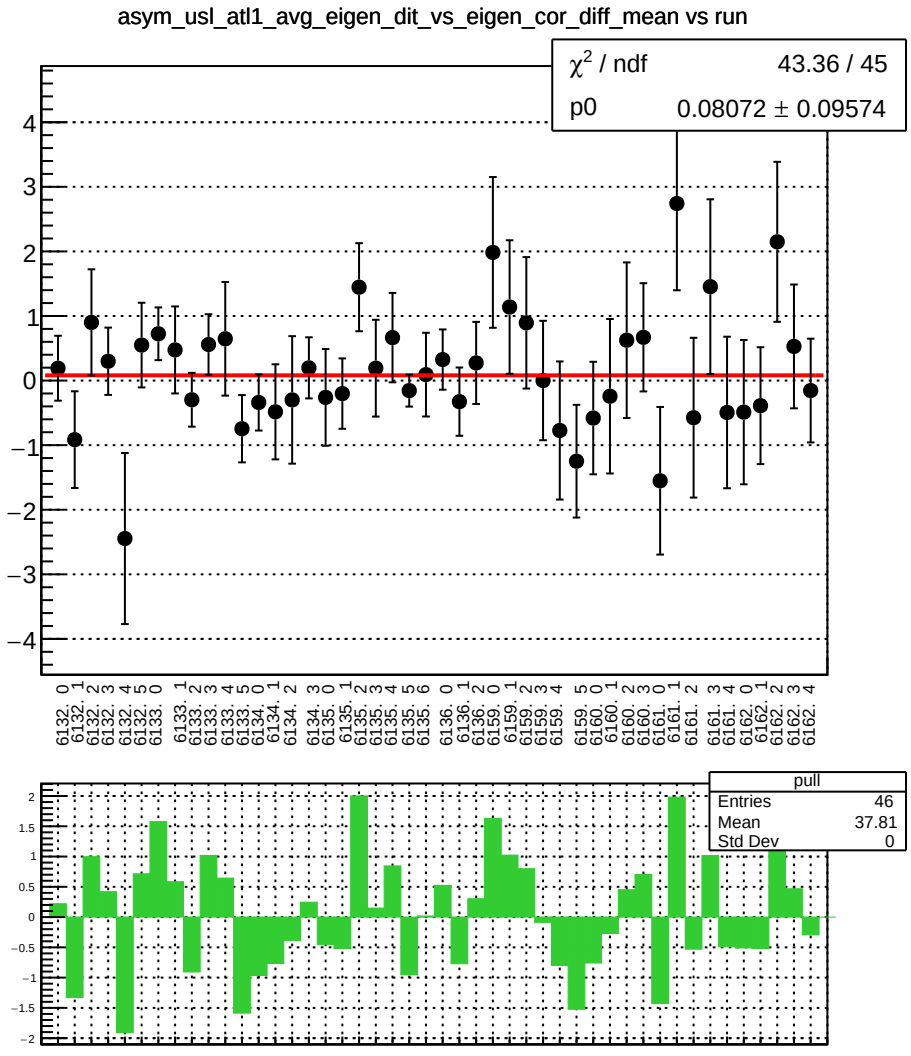

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 44.83 / 45
p0 −1.055e−06 ± 1.379e−06
0.15
0.1
0.05
0
−0.05
−0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 50.15
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.1216
Std Dev 0.9797
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

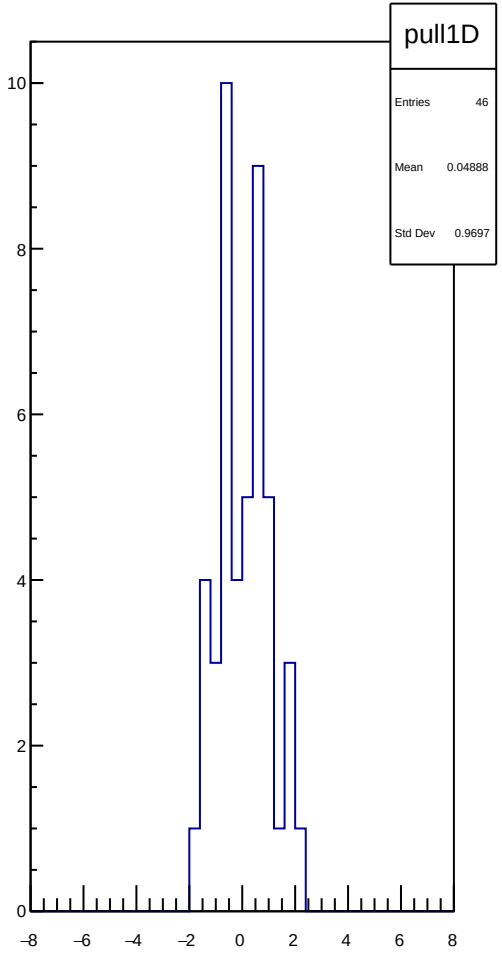

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.736e+05 / 45
p0 0.000783 ± 9.752e−07
0.006
0.005
0.004
0.003
0.002
0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

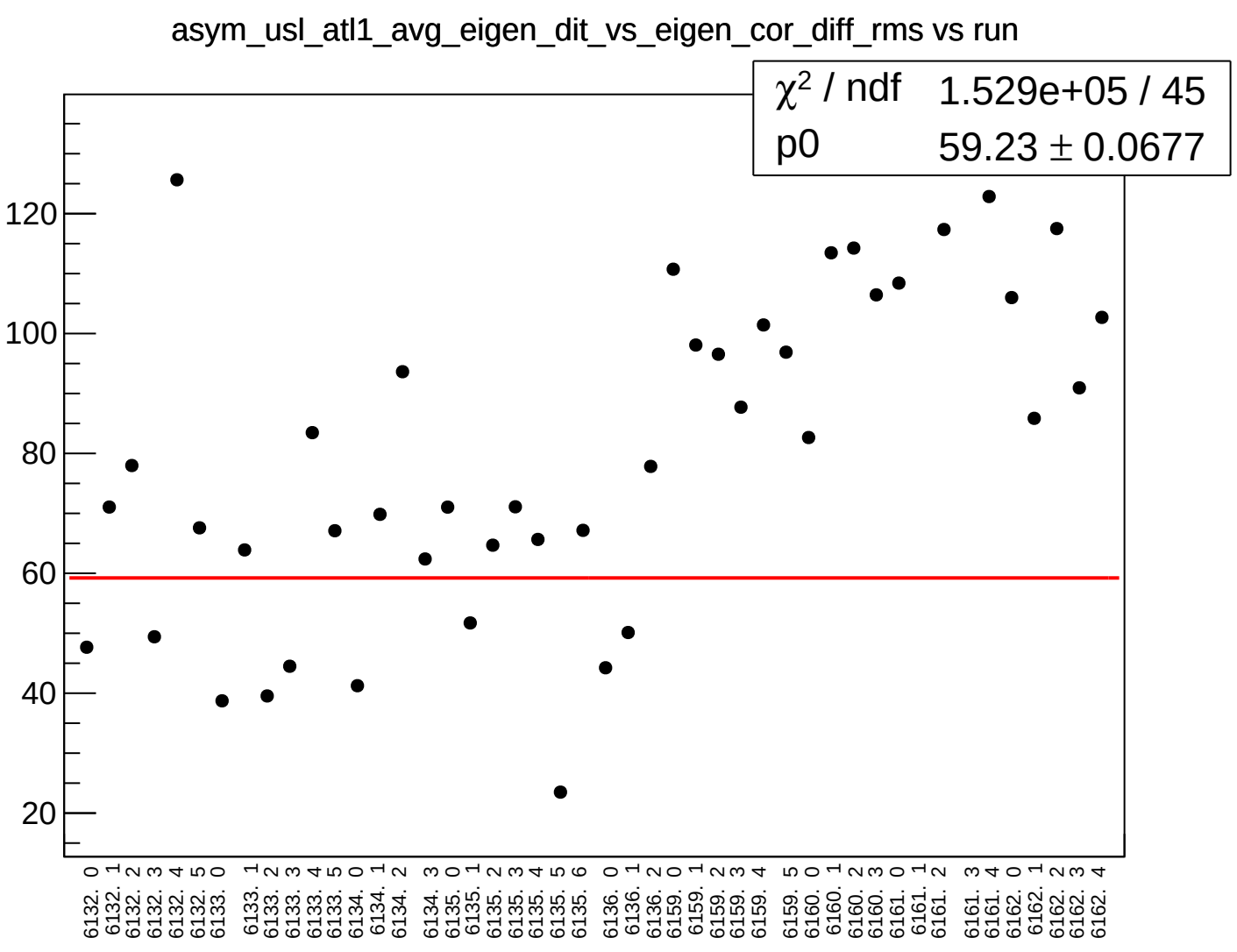

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 43.36 / 45
p0 0.08072 ± 0.09574
pull
Entries 46
Mean 37.81
Std Dev 0

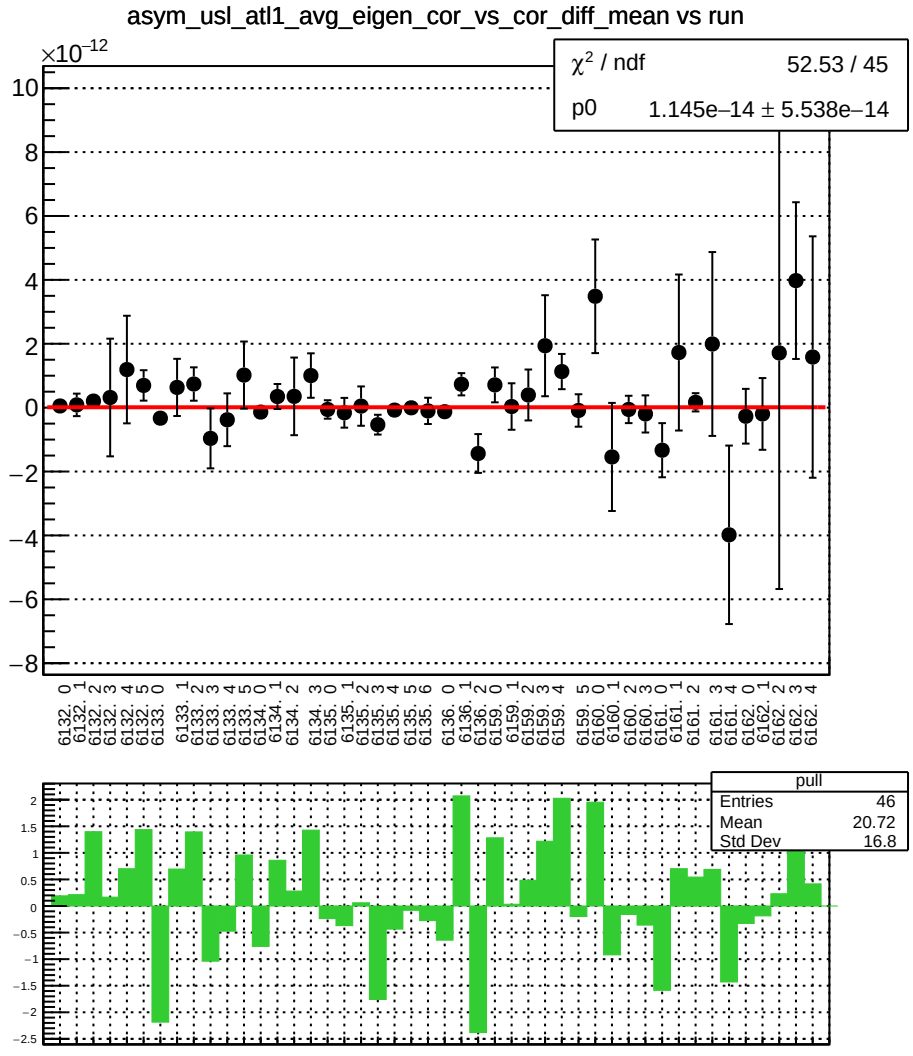

pull1D
Entries 46
Mean 0.04888
Std Dev 0.9697

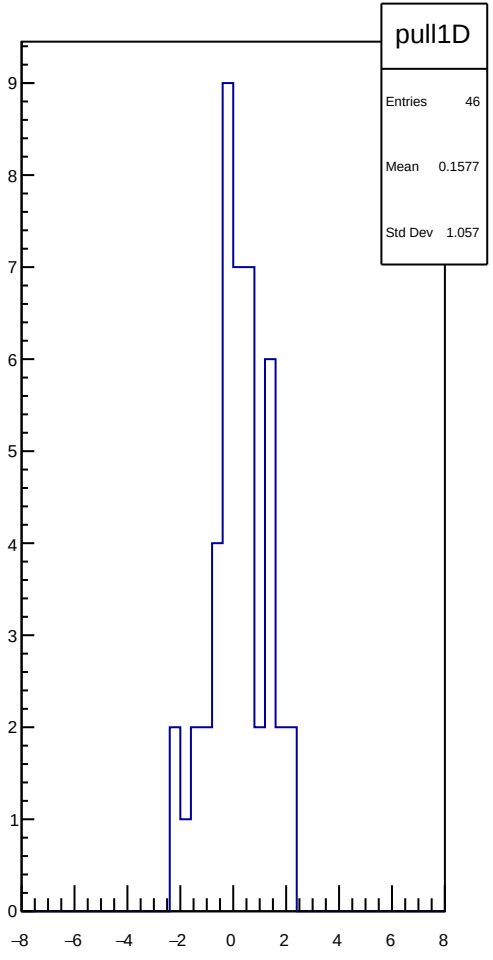

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.529e+05 / 45
p0 59.23 ± 0.0677
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

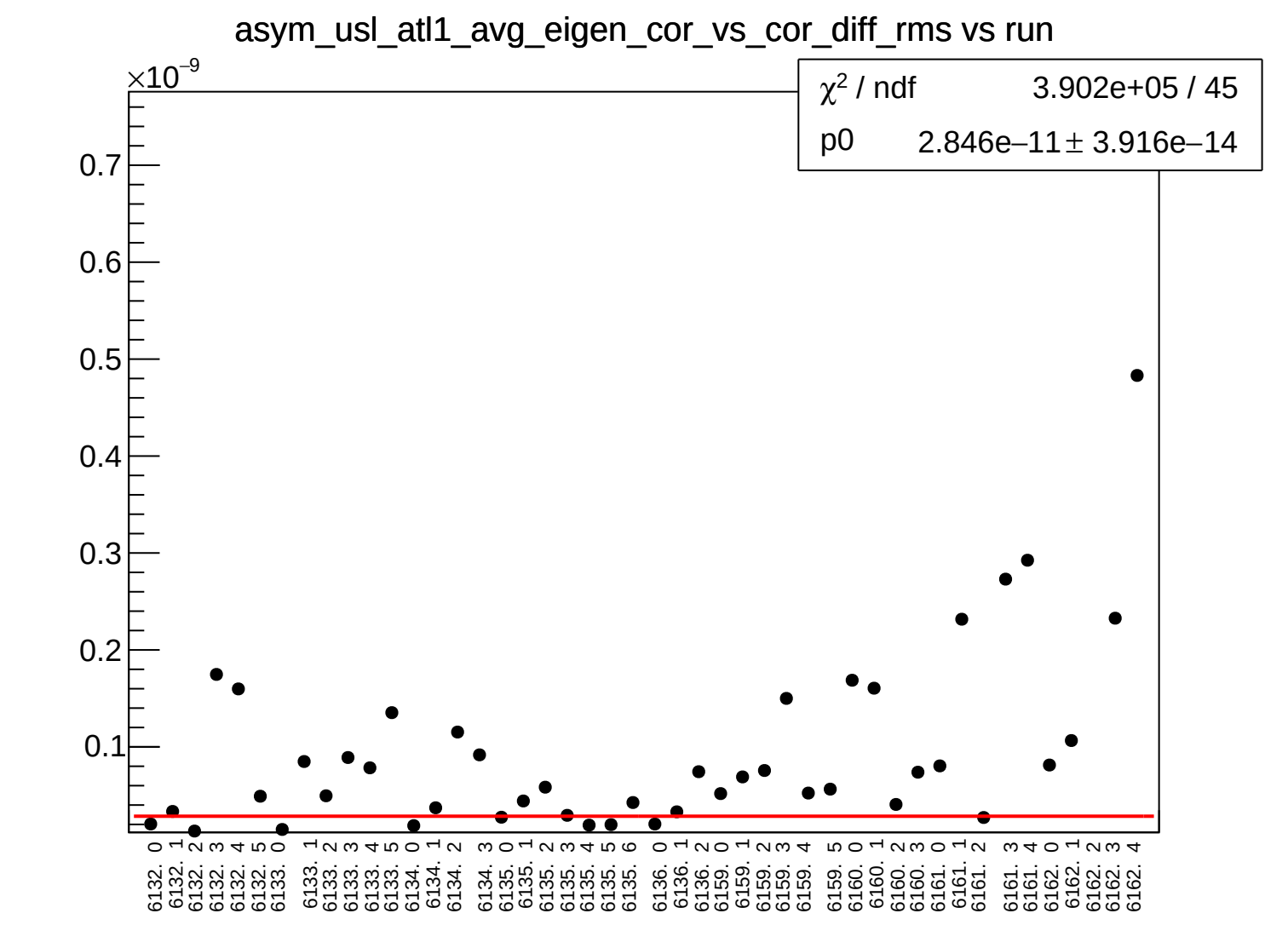

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.36 / 45
p0 0.08072 ± 0.09574
pull
Entries 46
Mean 37.81
Std Dev 0

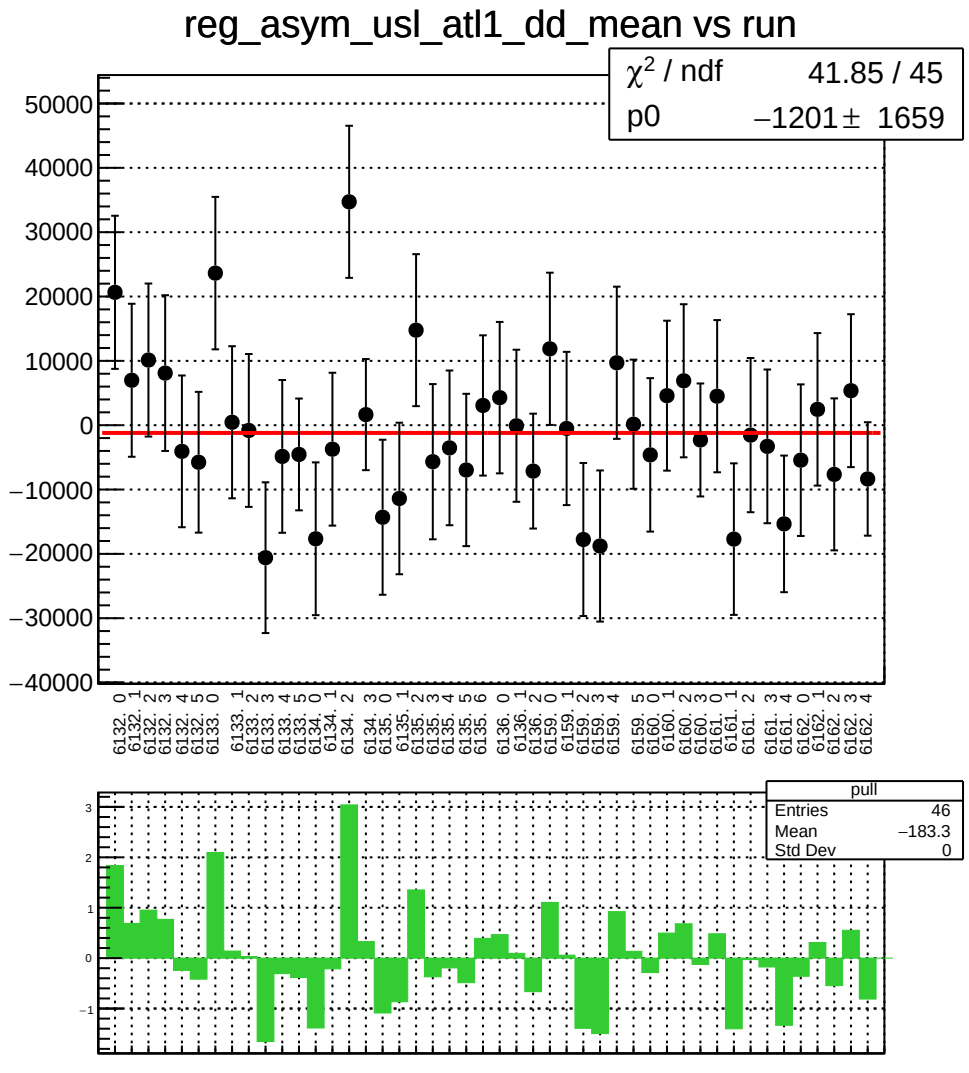

pull1D
Entries 46
Mean 0.04888
Std Dev 0.9697

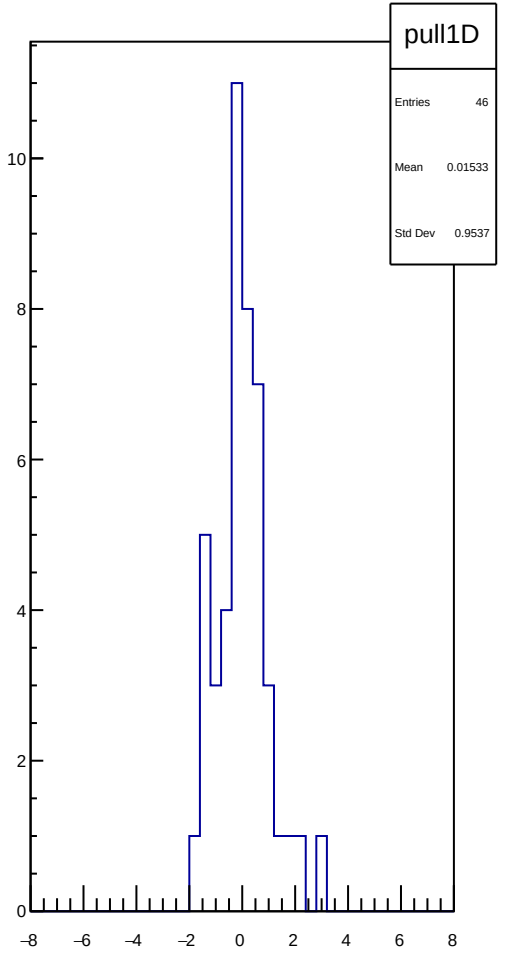

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.529e+05 / 45
p0 59.23 ± 0.0677
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

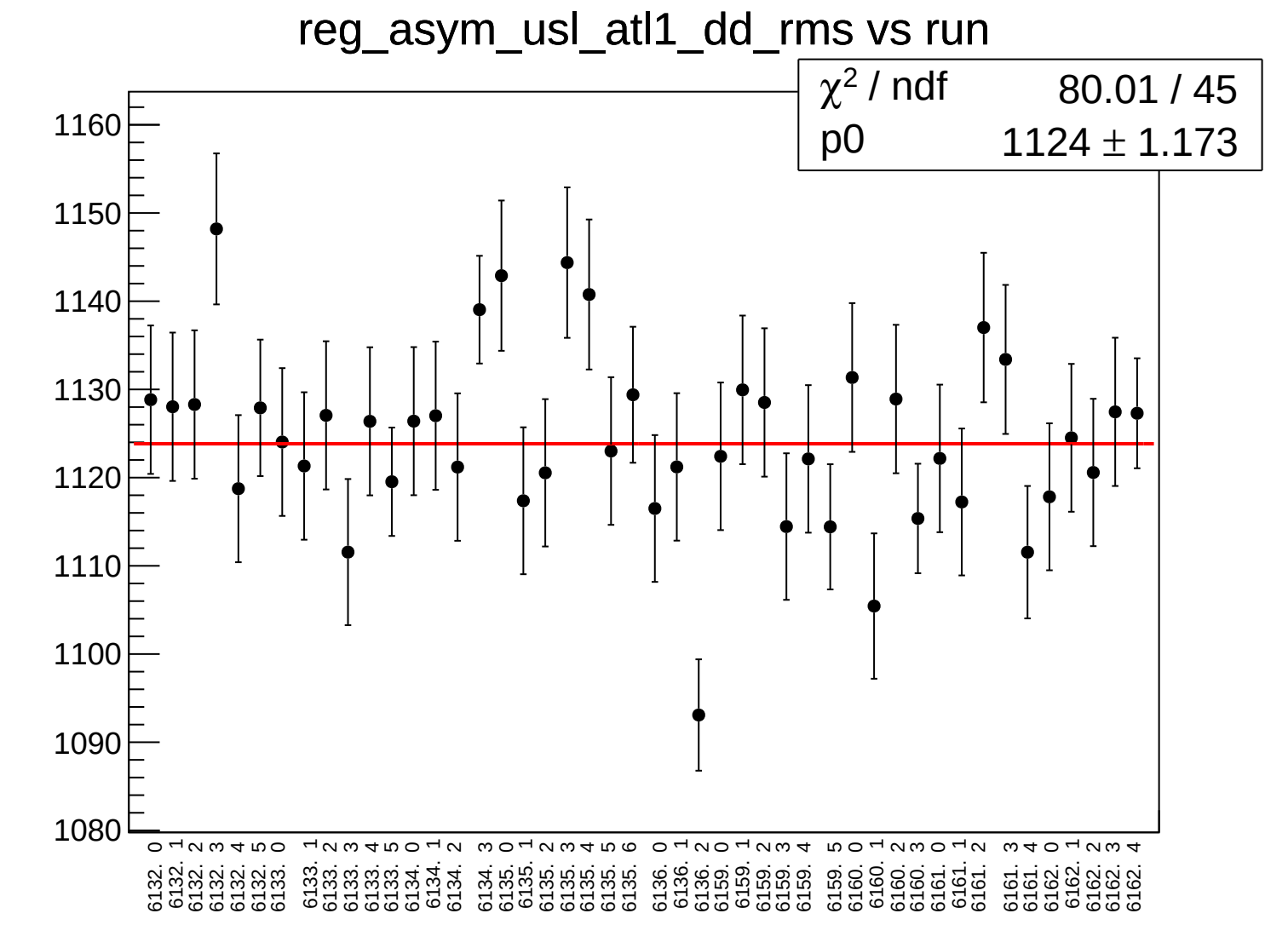

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 52.53 / 45
p0 1.145e−14 ± 5.538e−14
pull
Entries 46
Mean 20.72
Std Dev 16.8

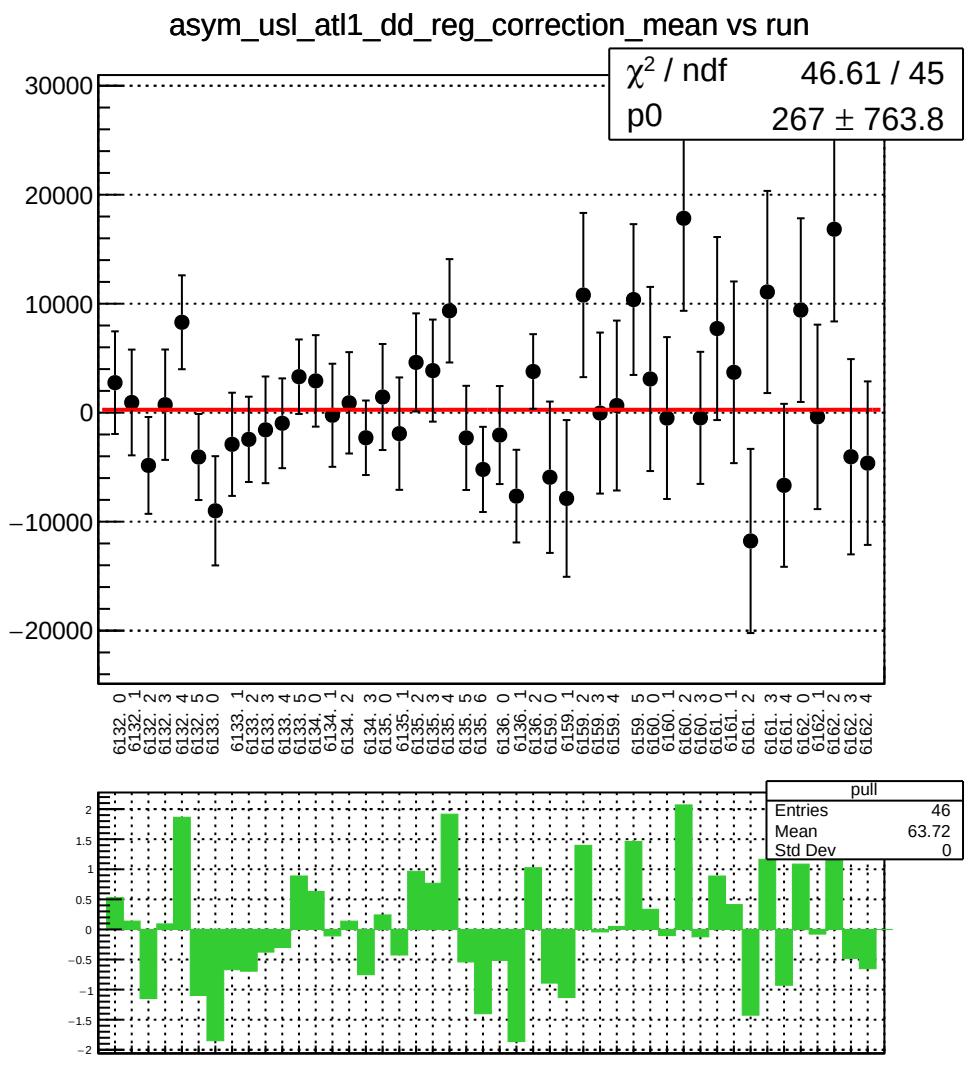

pull1D
Entries 46
Mean 0.1577
Std Dev 1.057

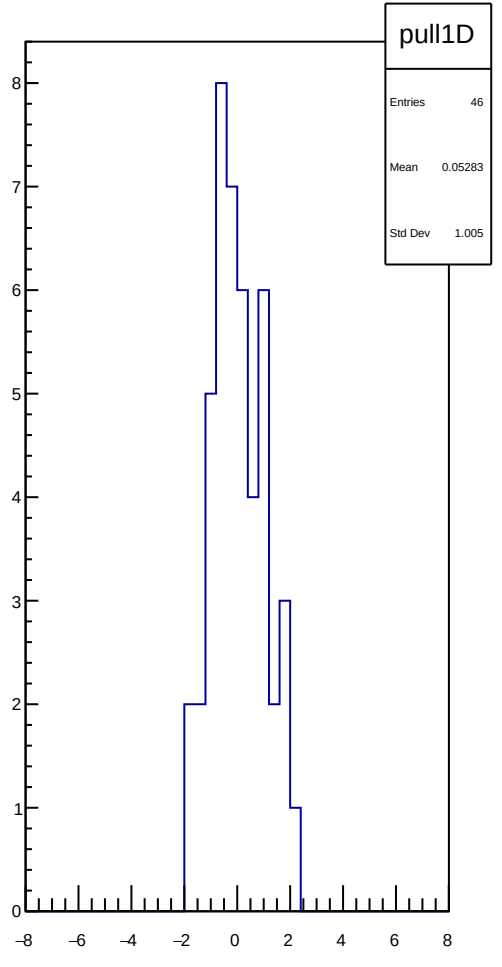

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.902e+05 / 45
p0 2.846e−11 ± 3.916e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

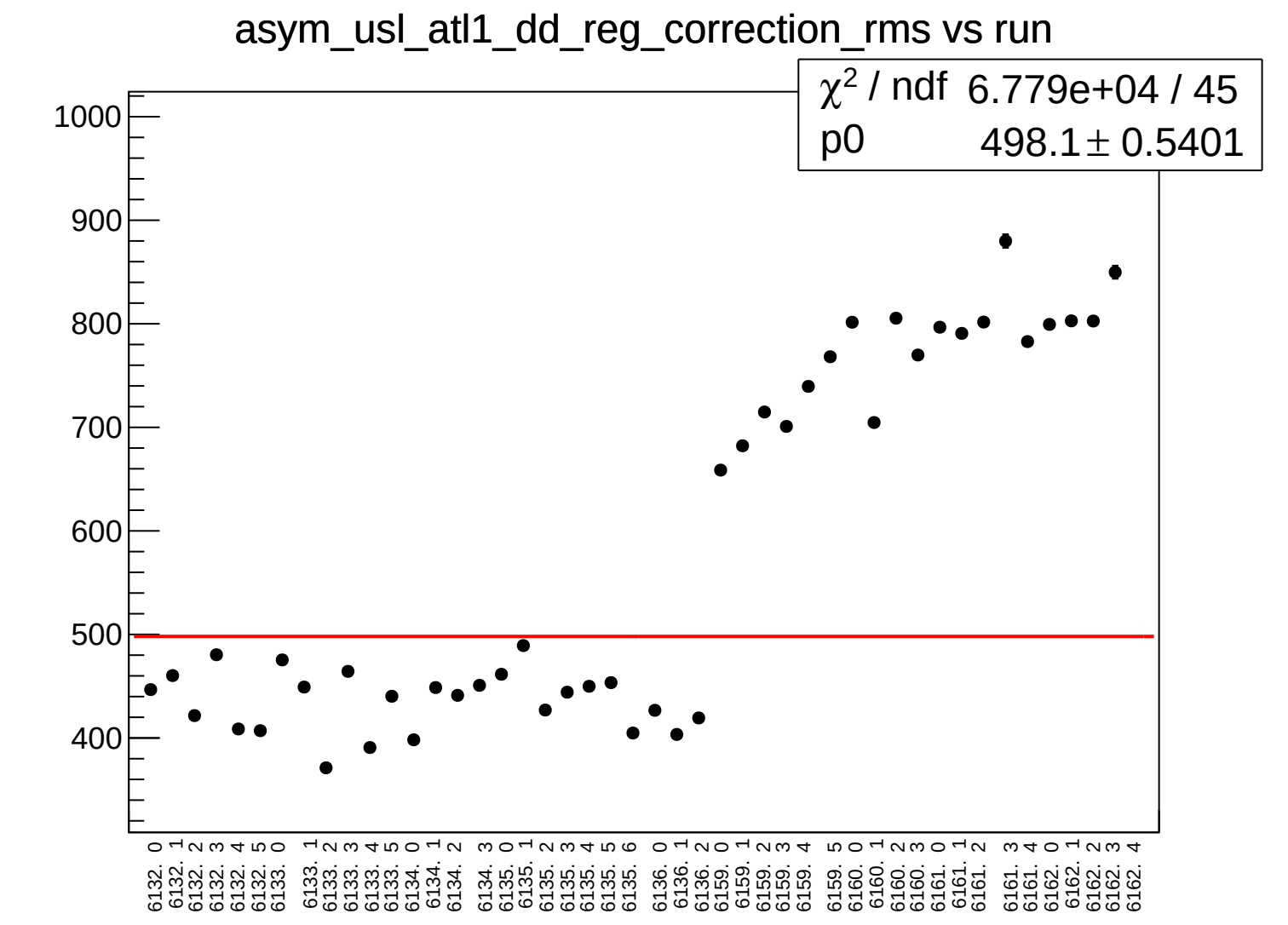

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 41.85 / 45
p0 −1201 ± 1659
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −183.3
Std Dev 0
3
2
1
0
−1

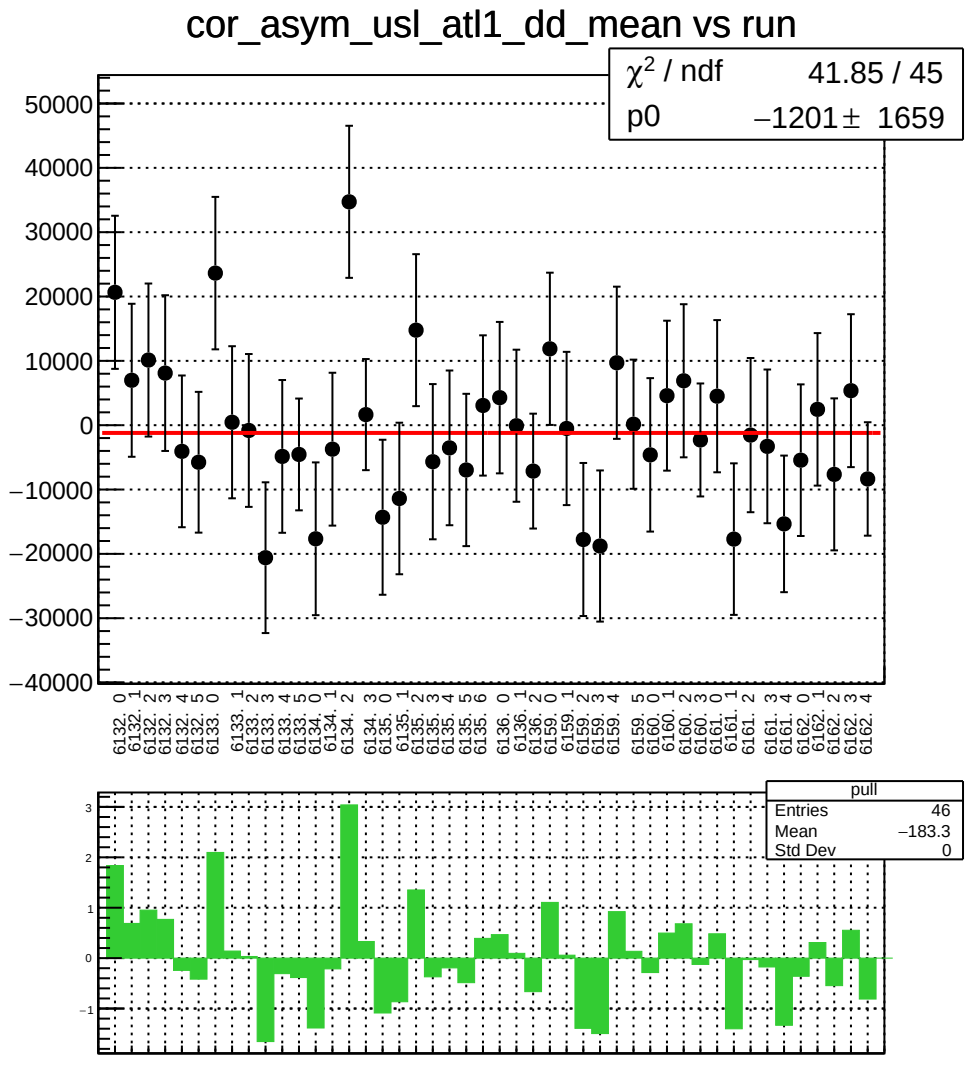

pull1D
Entries 46
Mean 0.01533
Std Dev 0.9537
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

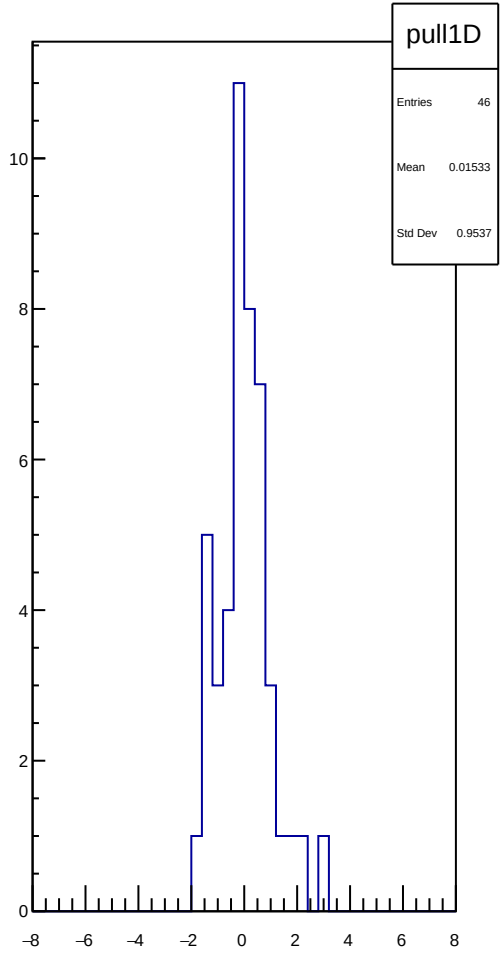

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 80.01 / 45
p0 1124 ± 1.173
1160
1150
1140
1130
1120
1110
1100
1090
1080
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

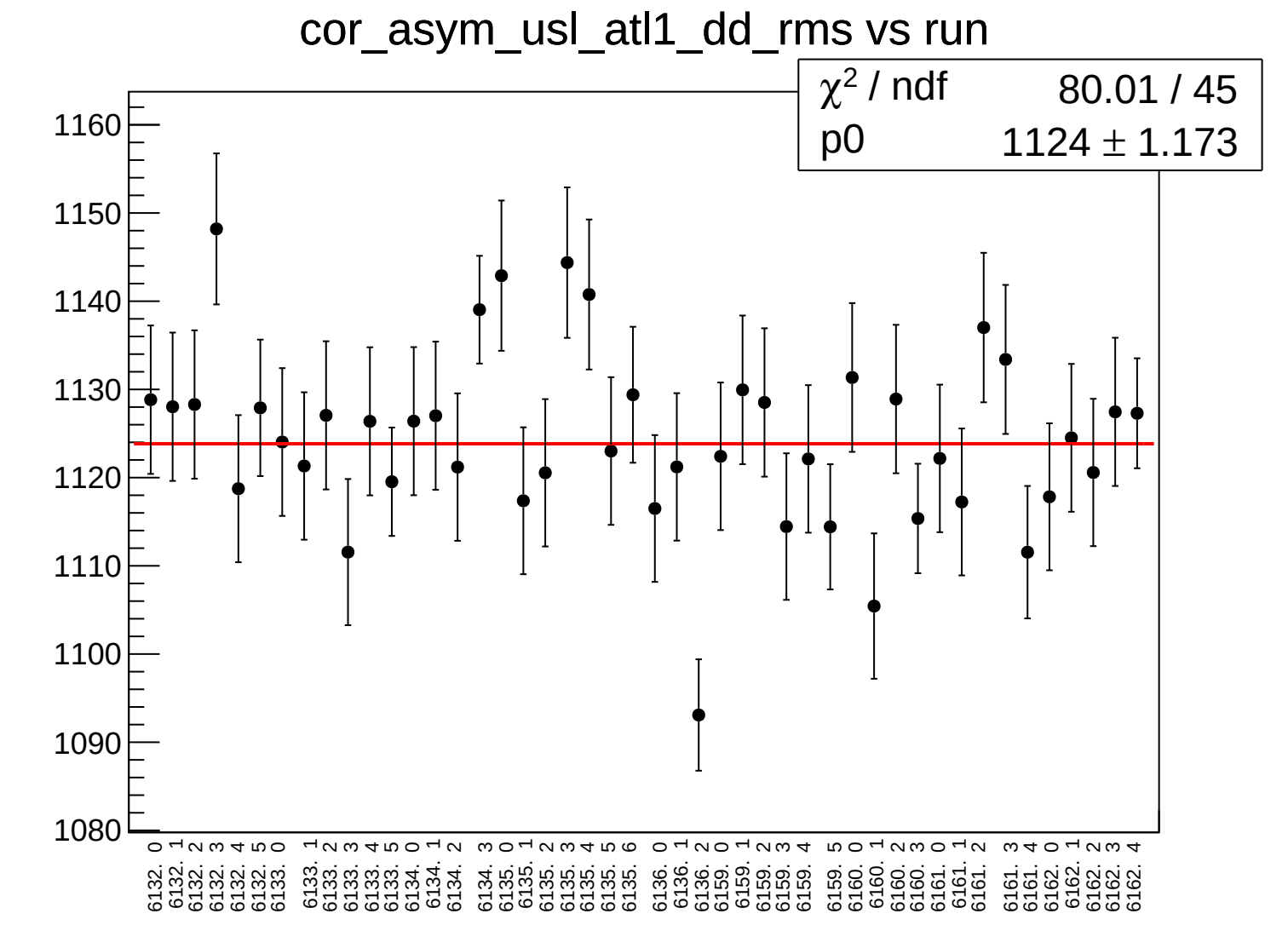

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 46.61 / 45
p0 267 ± 763.8
30000
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 63.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

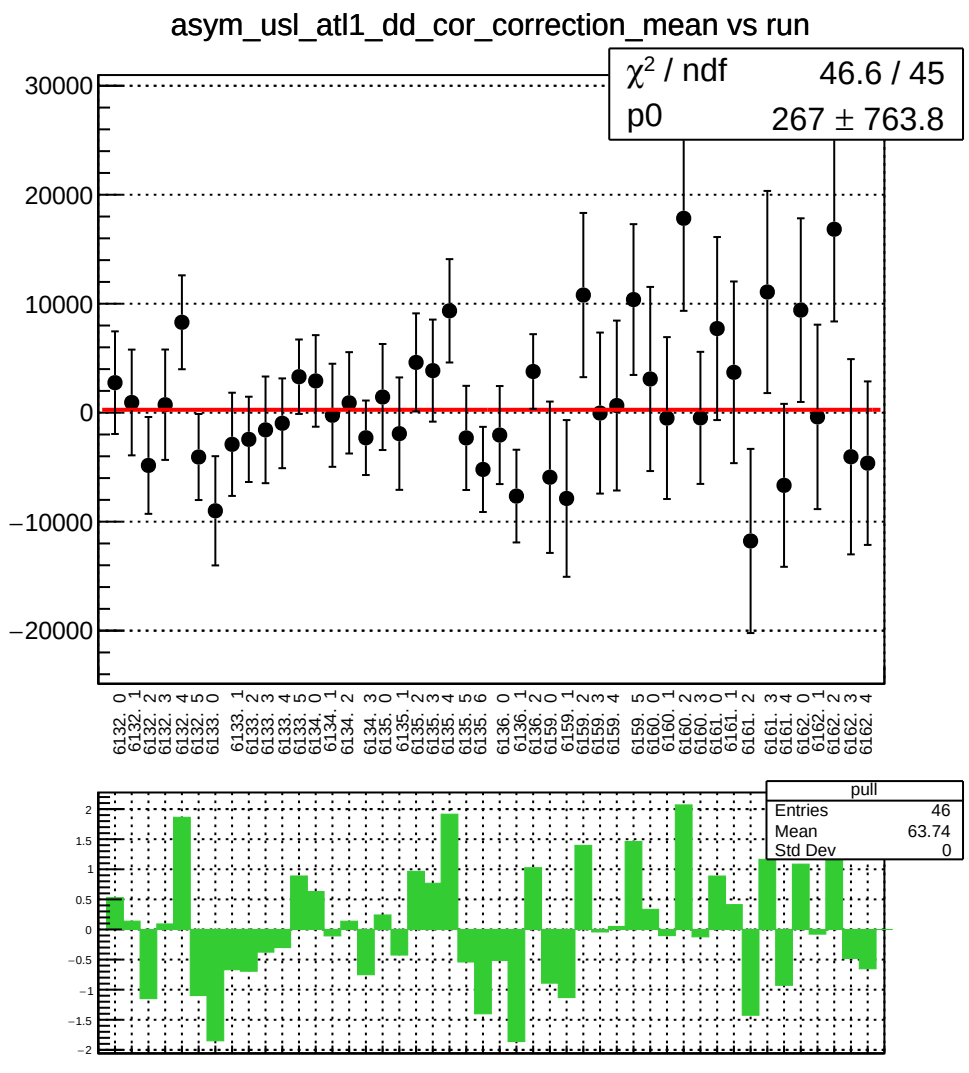

pull1D
Entries 46
Mean 0.05283
Std Dev 1.005
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

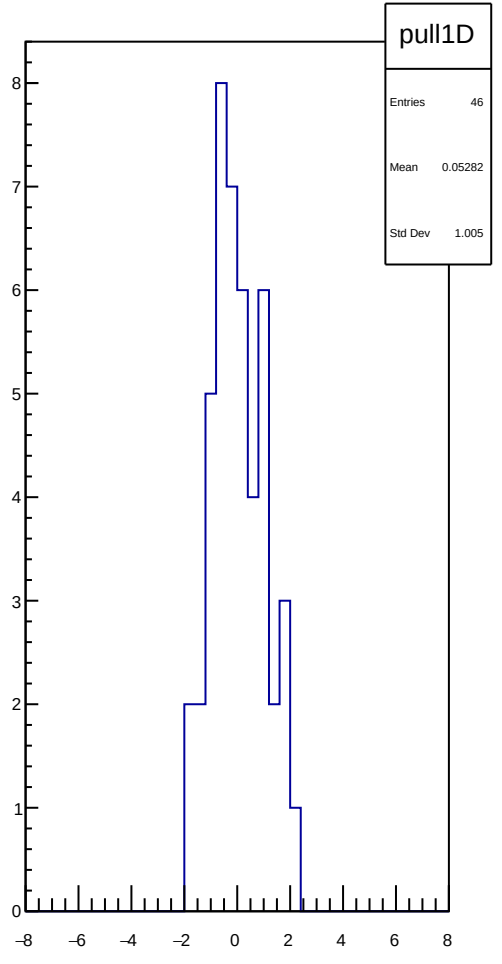

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 6.779e+04 / 45
p0 498.1 ± 0.5401
1000
900
800
700
600
500
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

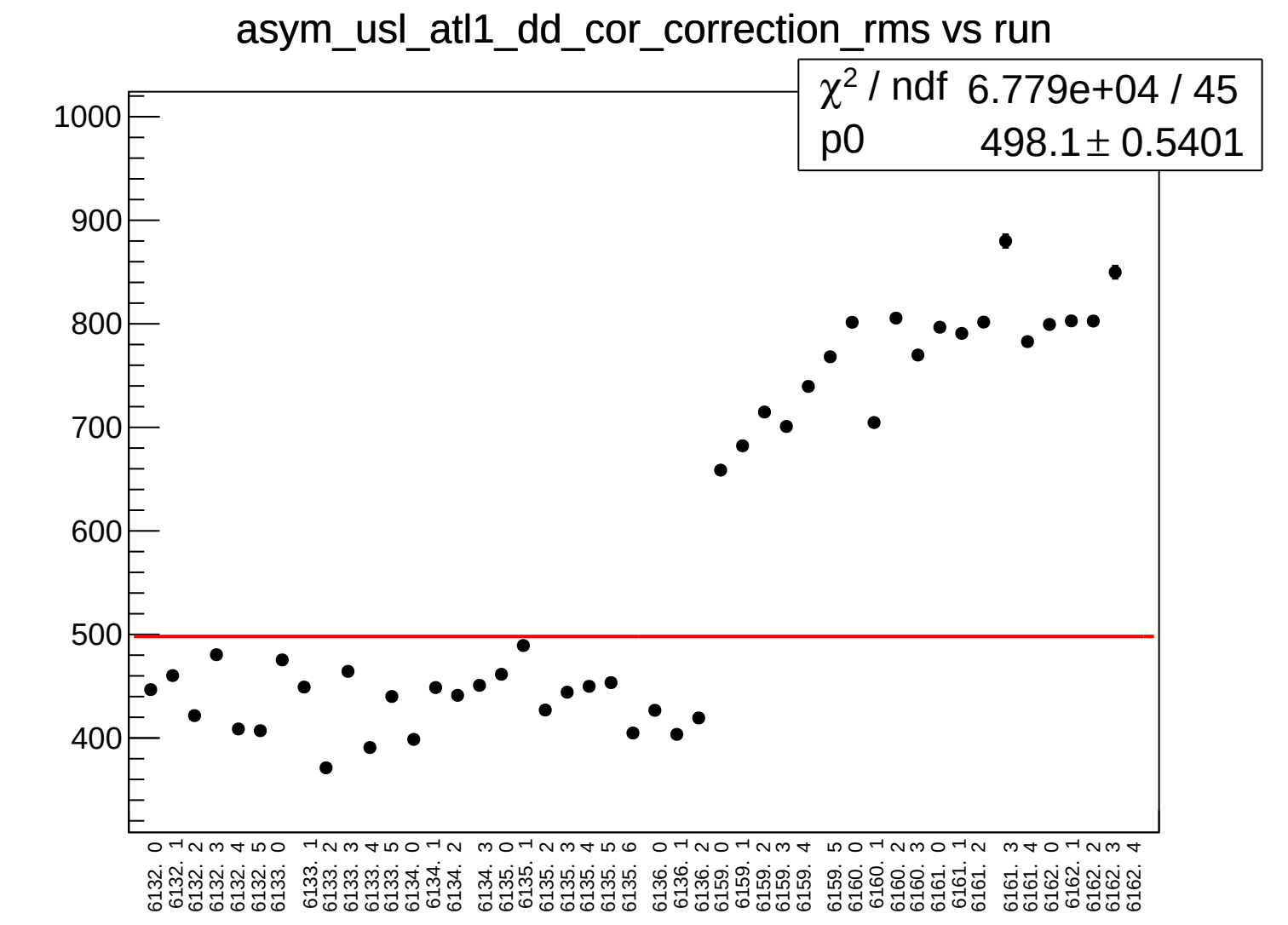

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 41.85 / 45
p0 −1201 ± 1659
pull
Entries 46
Mean −183.3
Std Dev 0

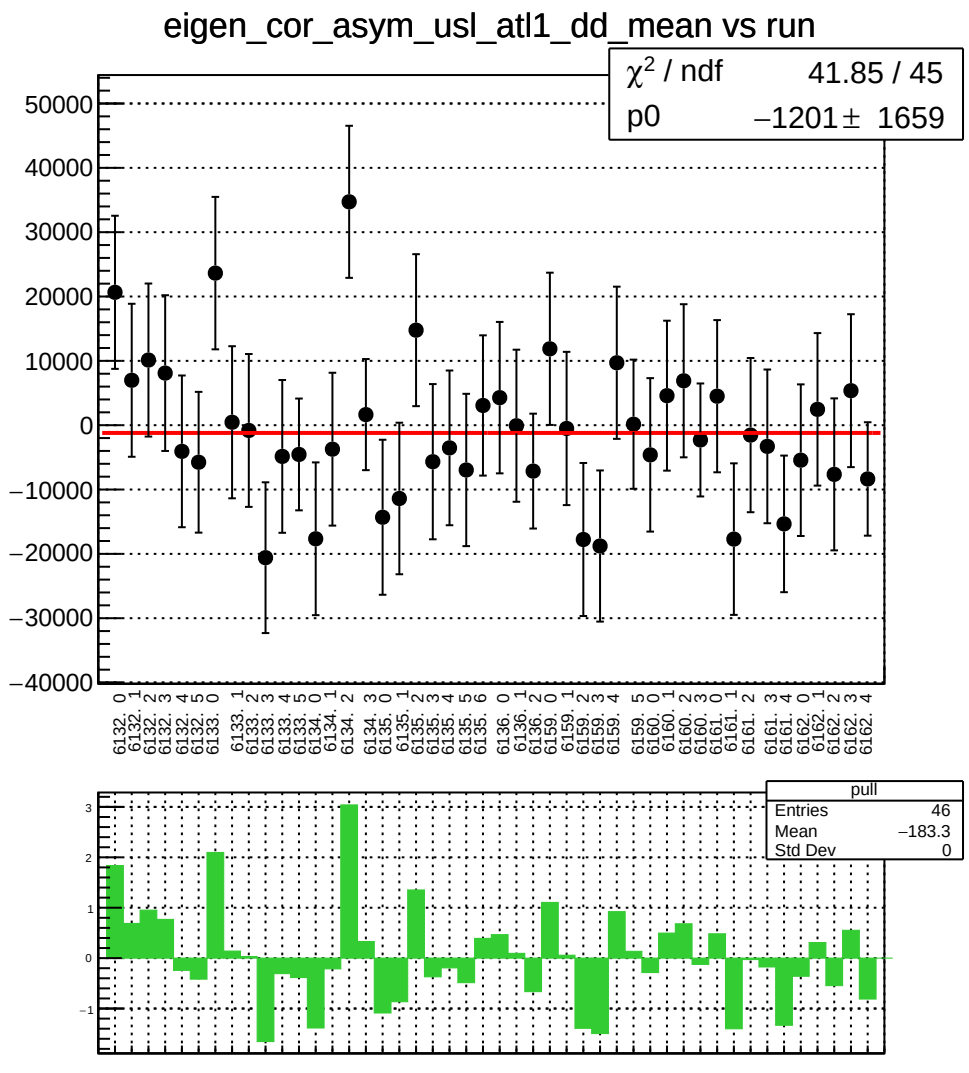

pull1D
Entries 46
Mean 0.01533
Std Dev 0.9537

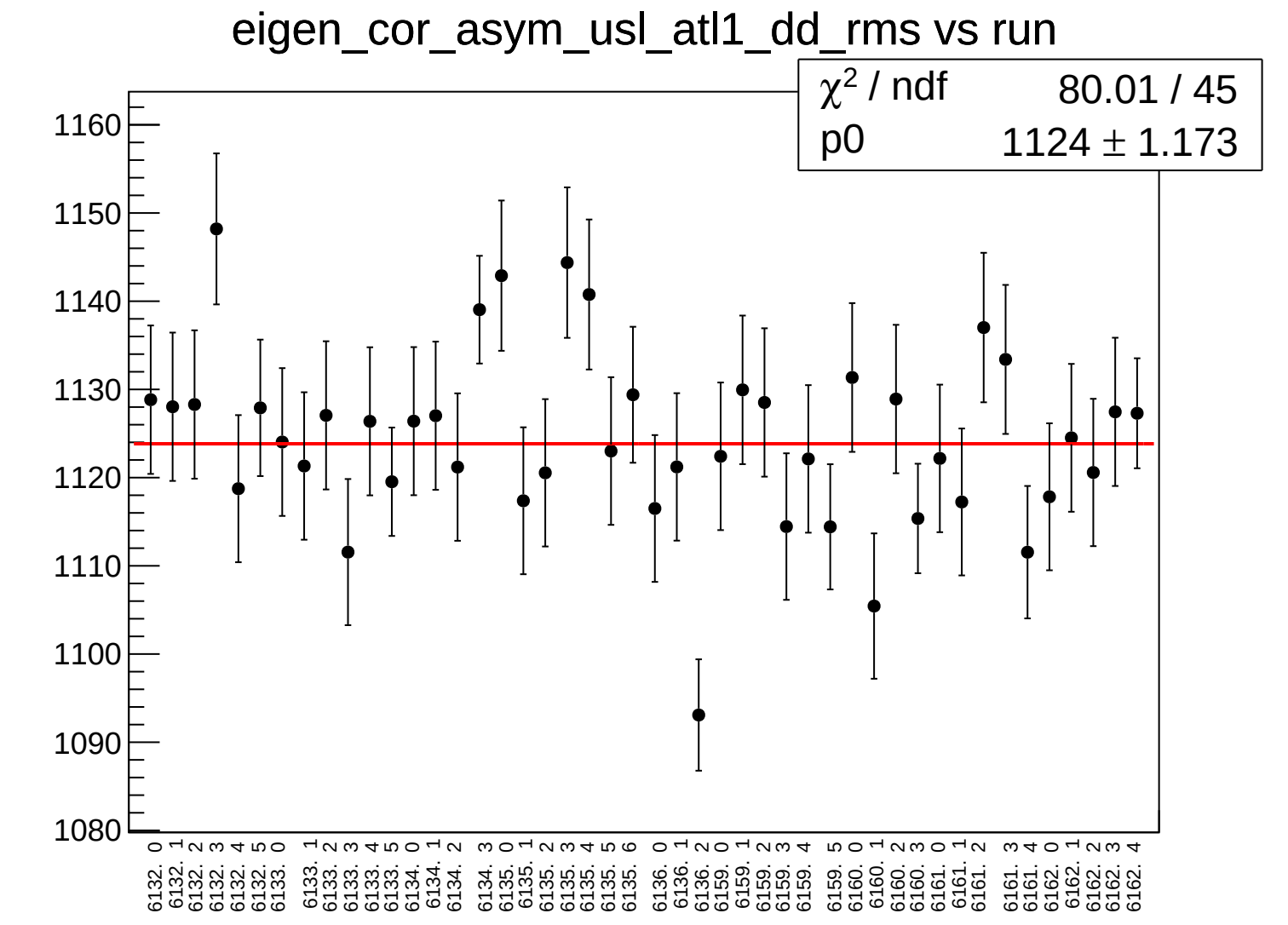

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 80.01 / 45
p0 1124 ± 1.173
1160
1150
1140
1130
1120
1110
1100
1090
1080
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 46.6 / 45
p0 267 ± 763.8
30000
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 63.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.05282
Std Dev 1.005
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 6.779e+04 / 45
p0 498.1 ± 0.5401
1000
900
800
700
600
500
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 41.85 / 45
p0 −1201 ± 1659
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −183.3
Std Dev 0
3
2
1
0
−1
pull1D
Entries 46
Mean 0.01533
Std Dev 0.9537
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 80.01 / 45
p0 1124 ± 1.173
1160
1150
1140
1130
1120
1110
1100
1090
1080
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
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
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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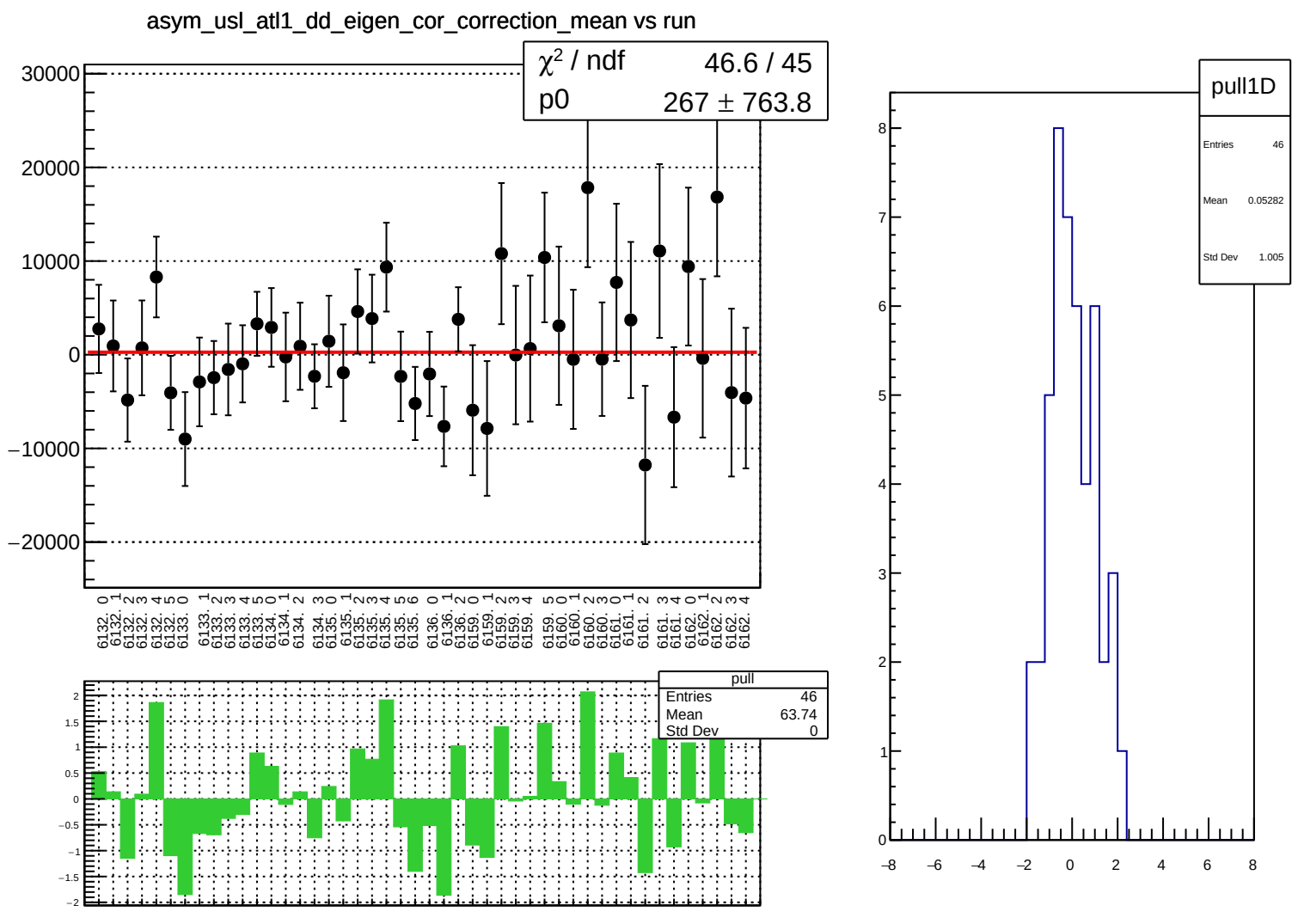
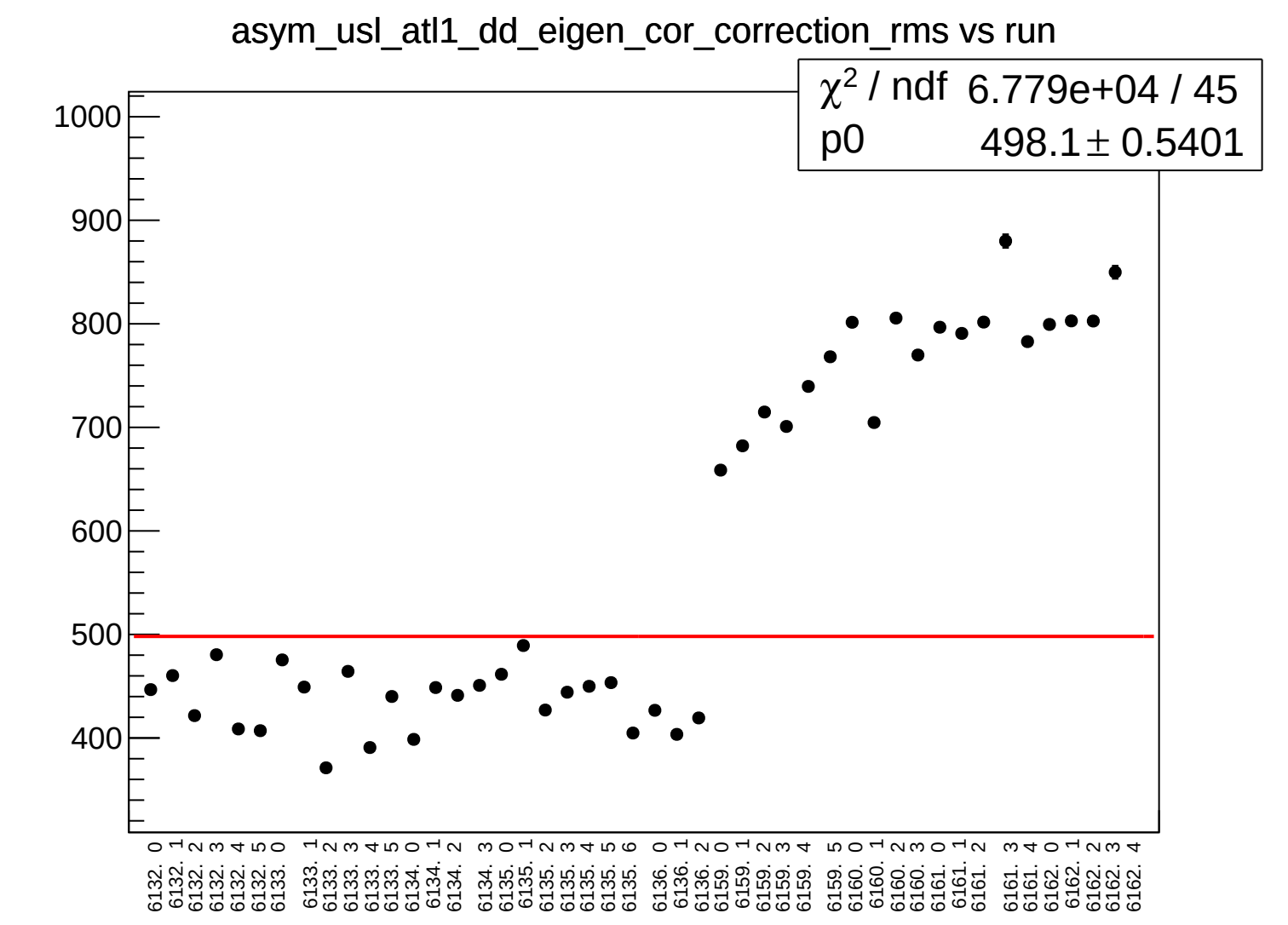
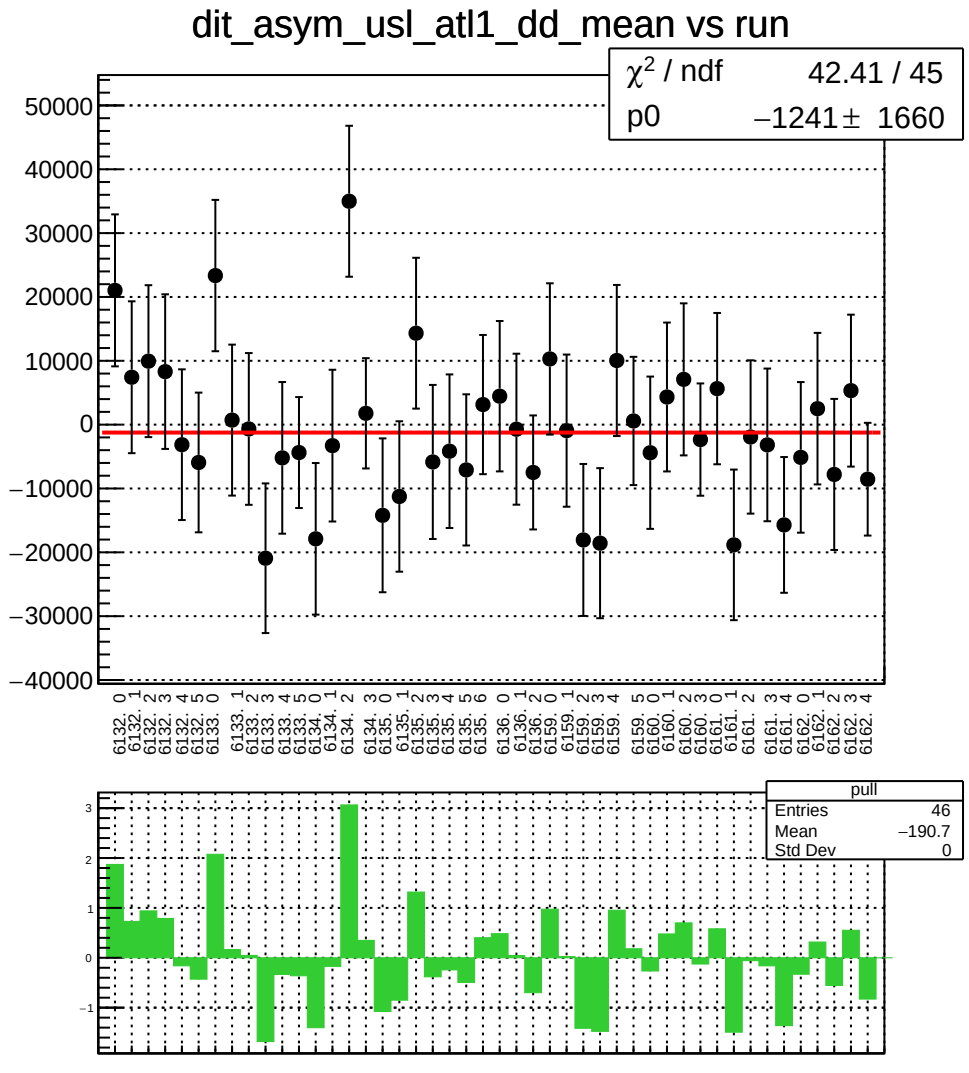
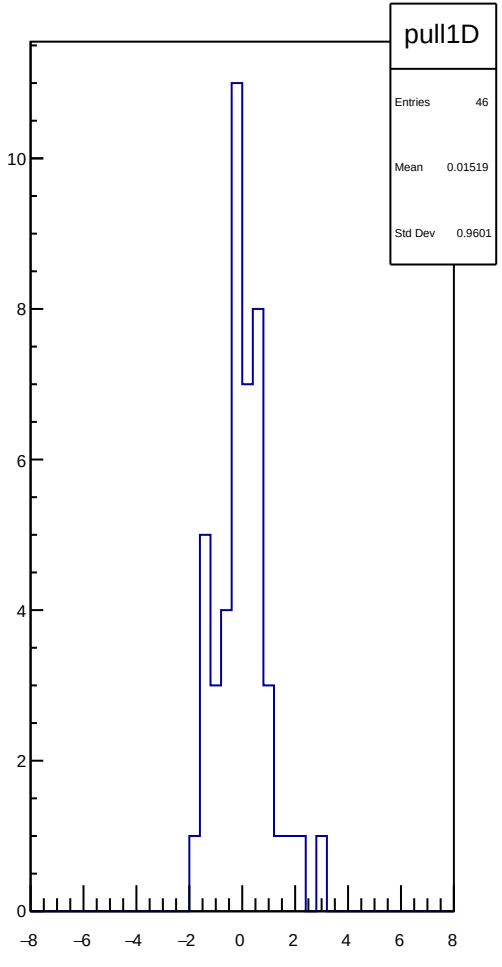
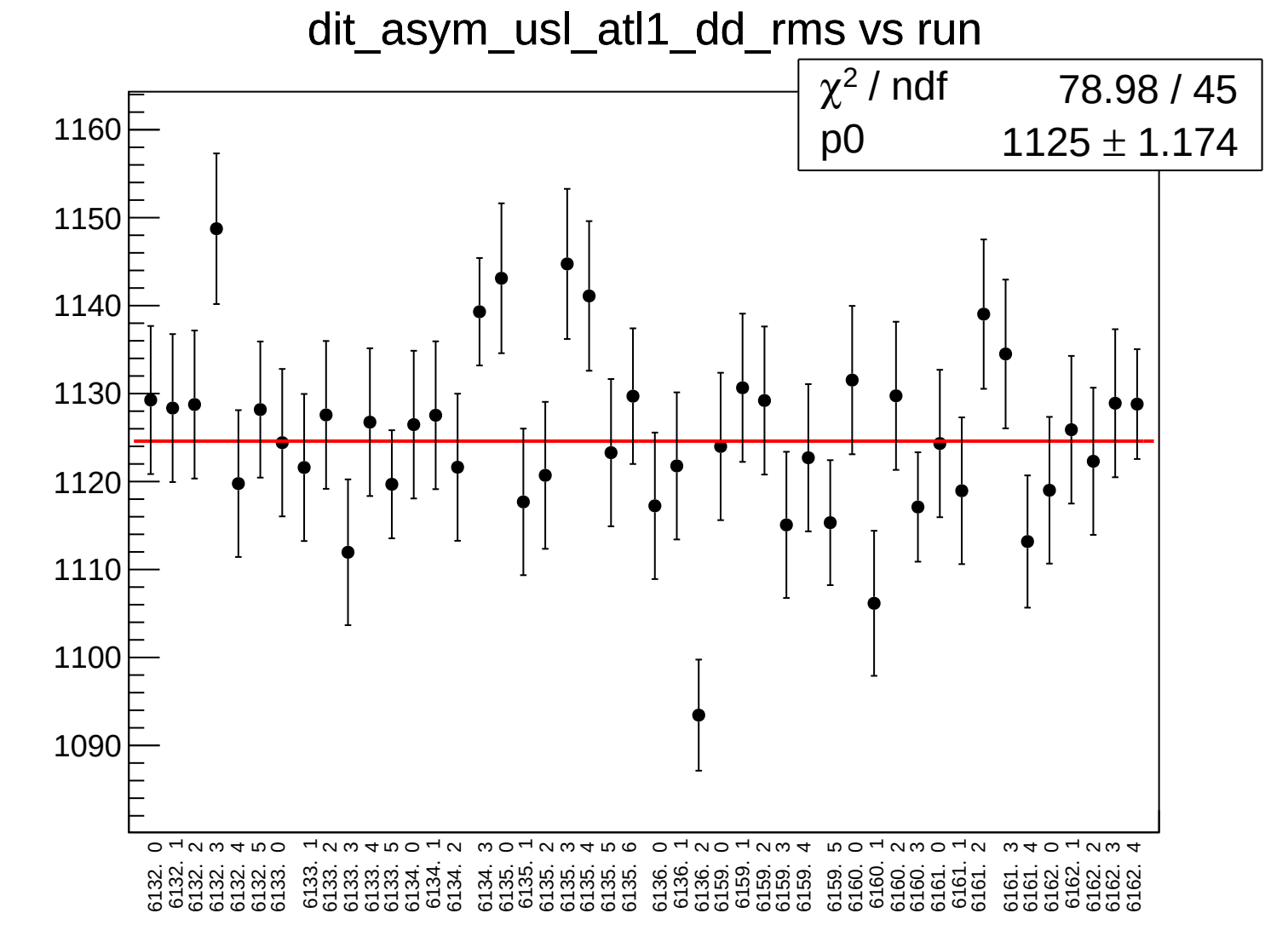
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 46.6 / 45
p0 267 ± 763.8
30000
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 63.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.05282
Std Dev 1.005
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.779e+04 / 45
p0 498.1 ± 0.5401
1000
900
800
700
600
500
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 42.41 / 45
p0 −1241 ± 1660
pull
Entries 46
Mean −190.7
Std Dev 0


pull1D
Entries 46
Mean 0.01519
Std Dev 0.9601


dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 78.98 / 45
p0 1125 ± 1.174
1160
1150
1140
1130
1120
1110
1100
1090
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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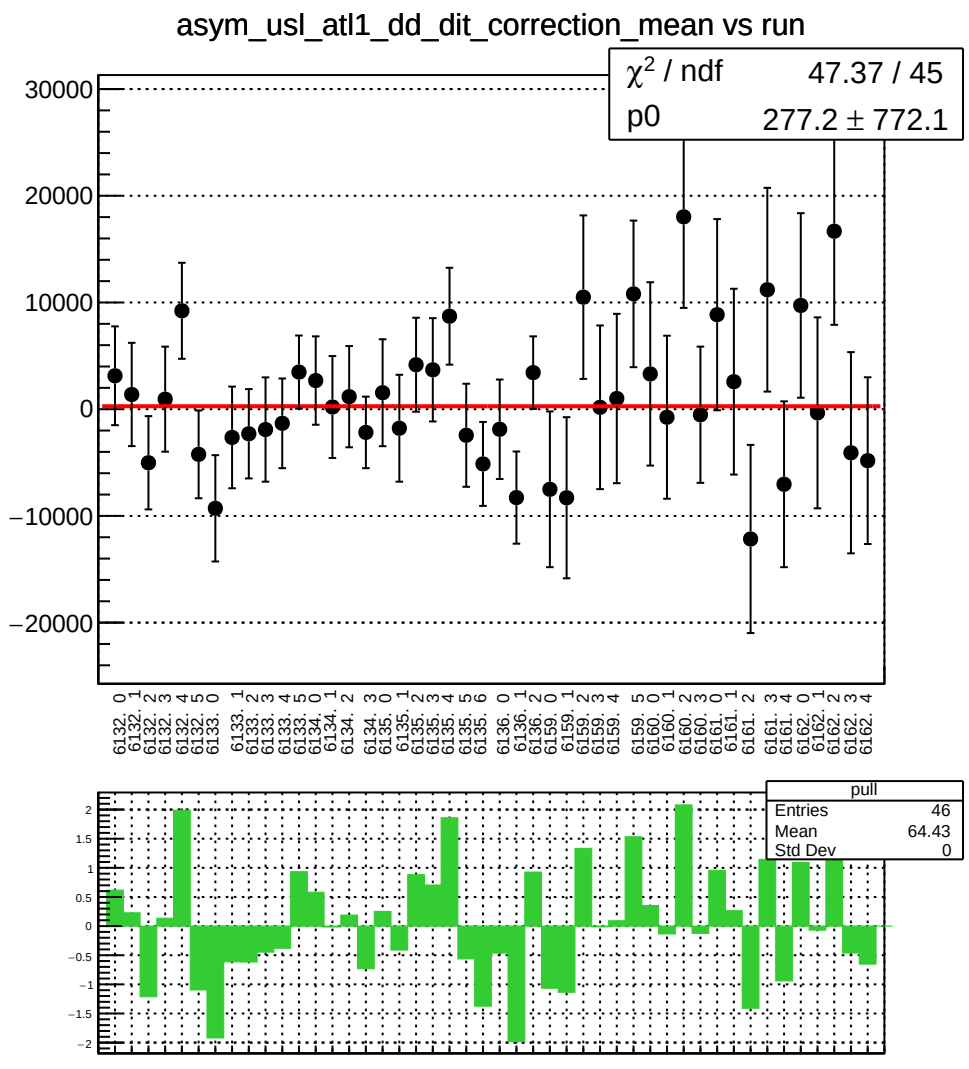
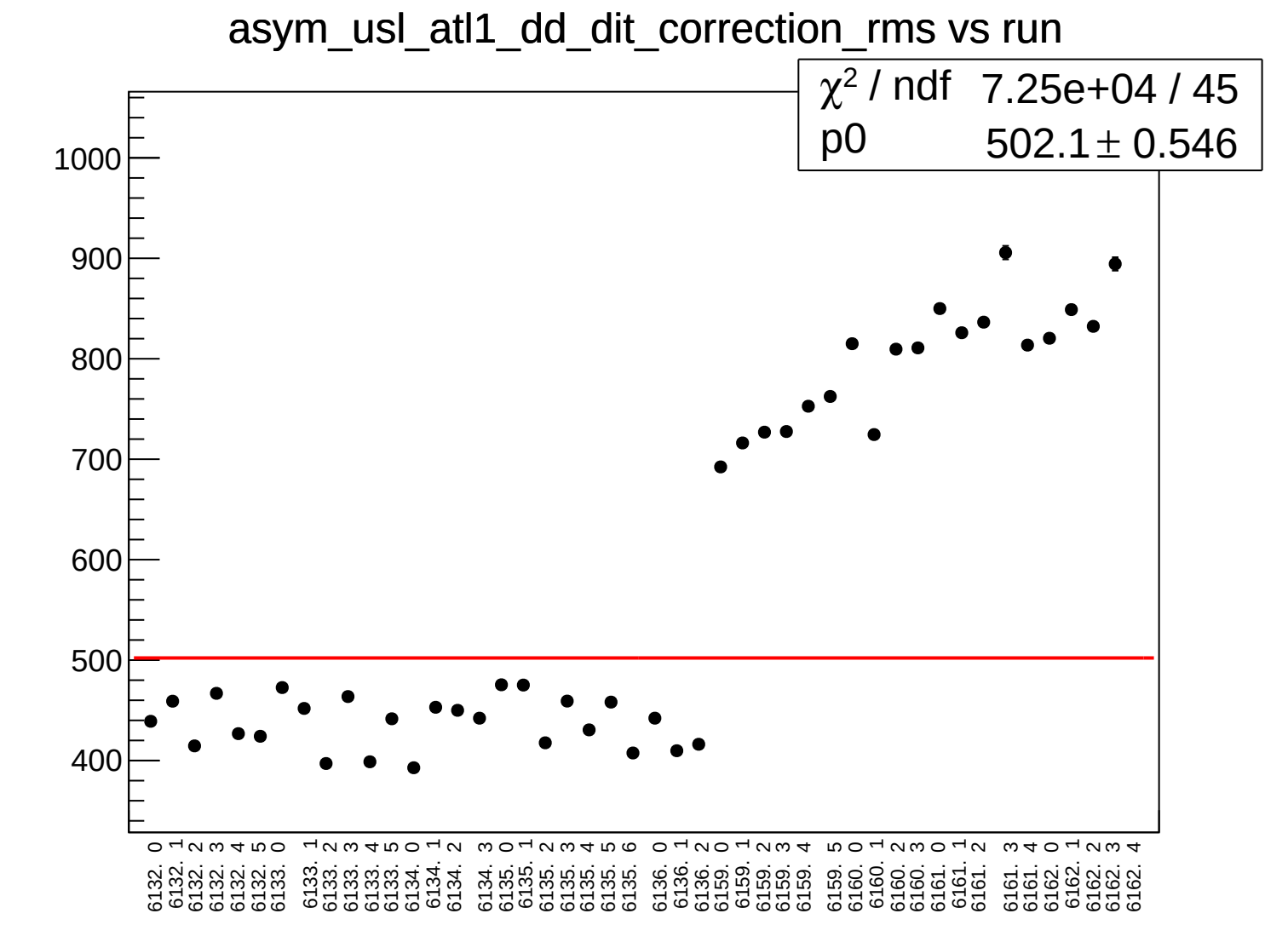
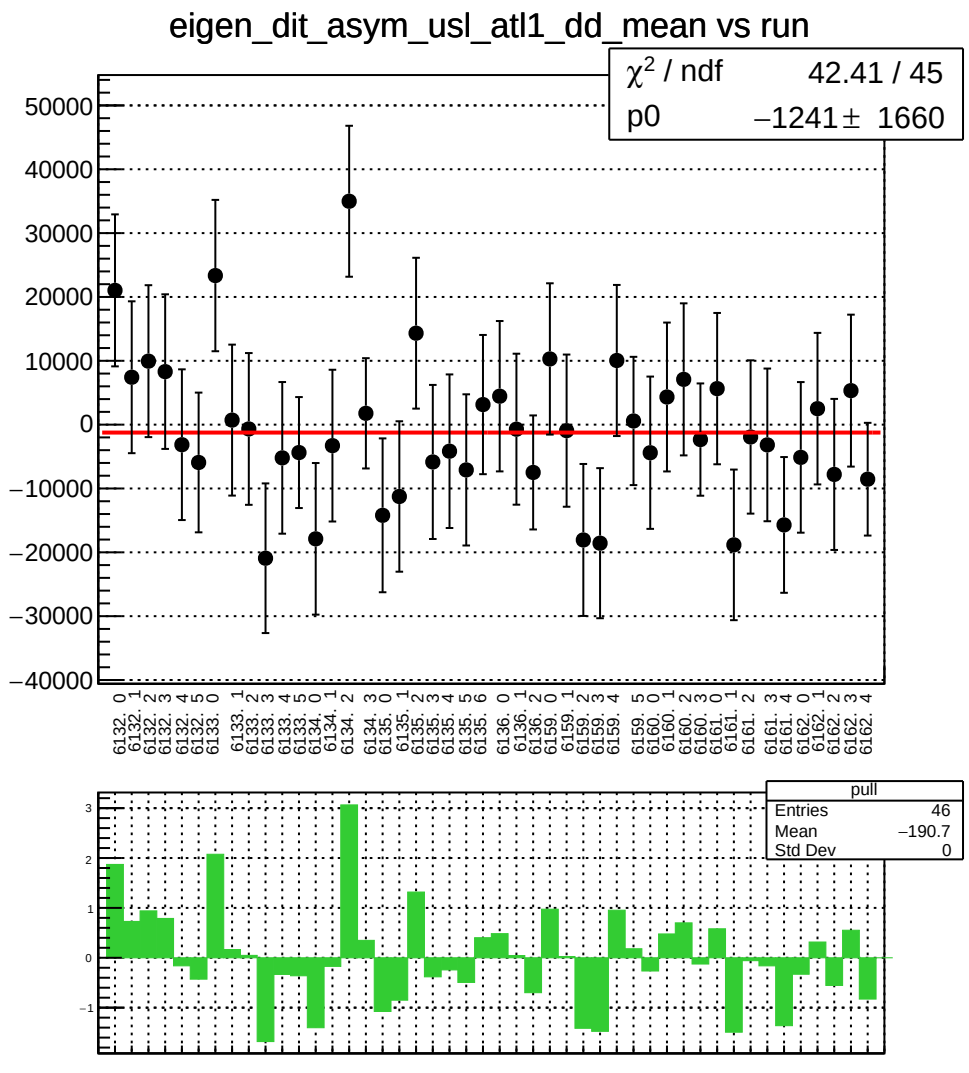
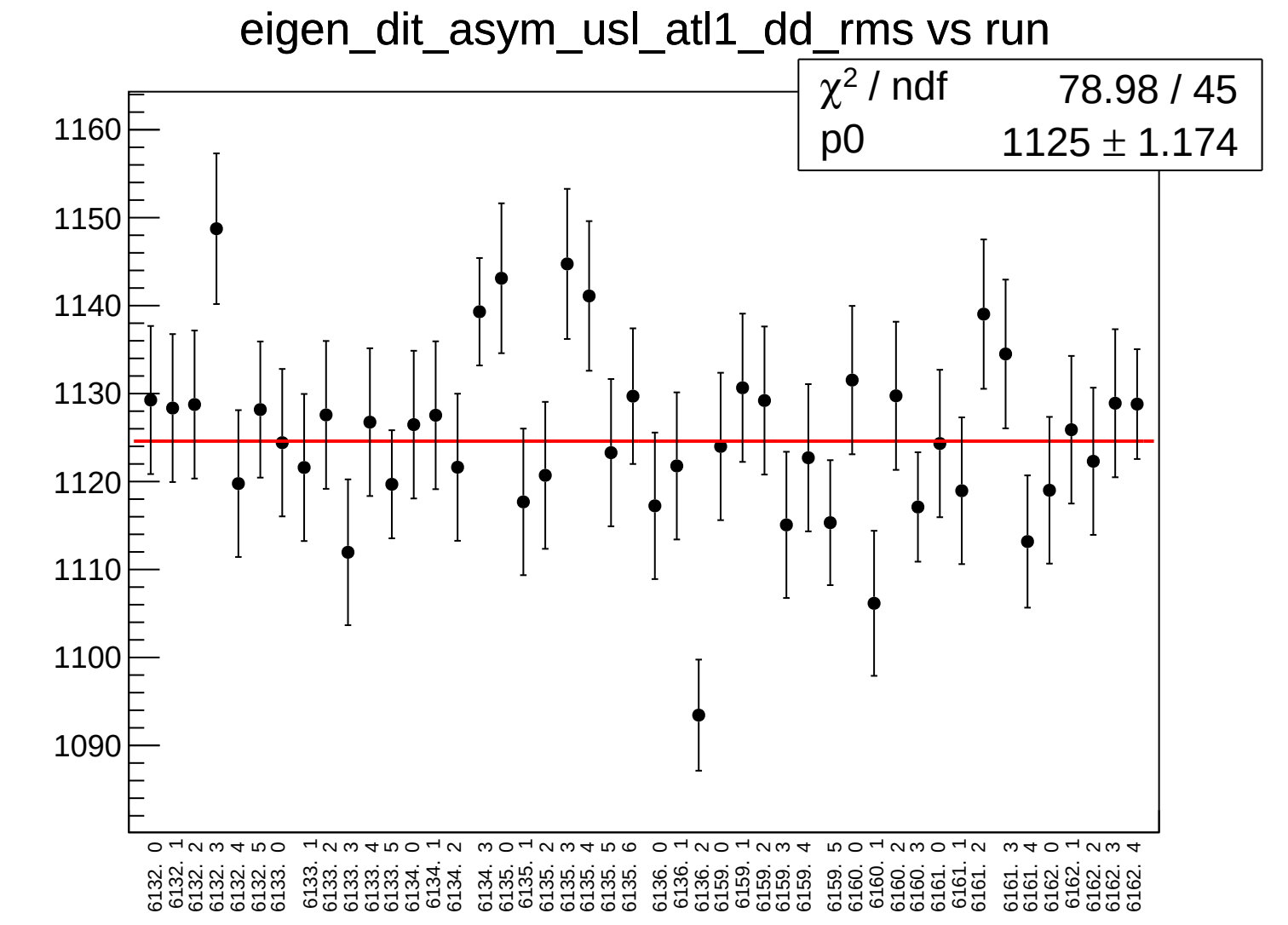
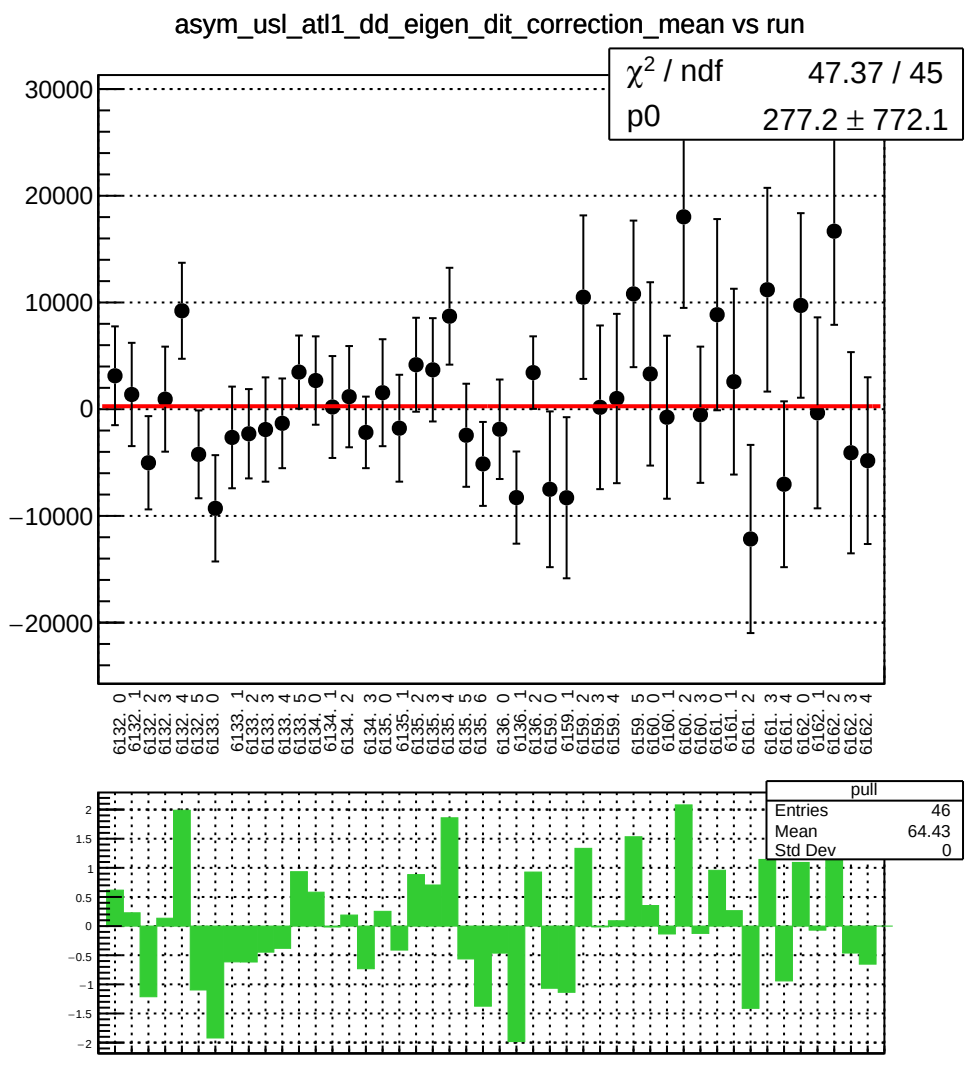
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

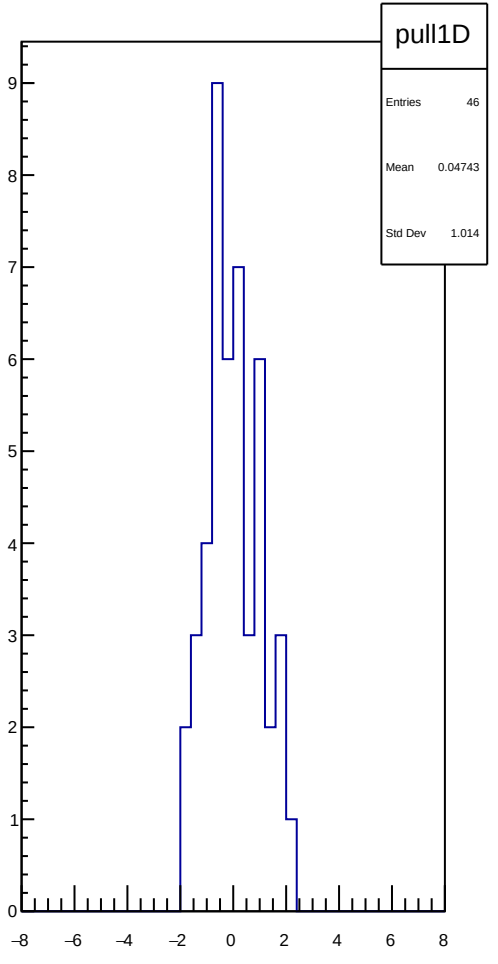

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 47.37 / 45
p0 277.2 ± 772.1
30000
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 64.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.04743
Std Dev 1.014
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

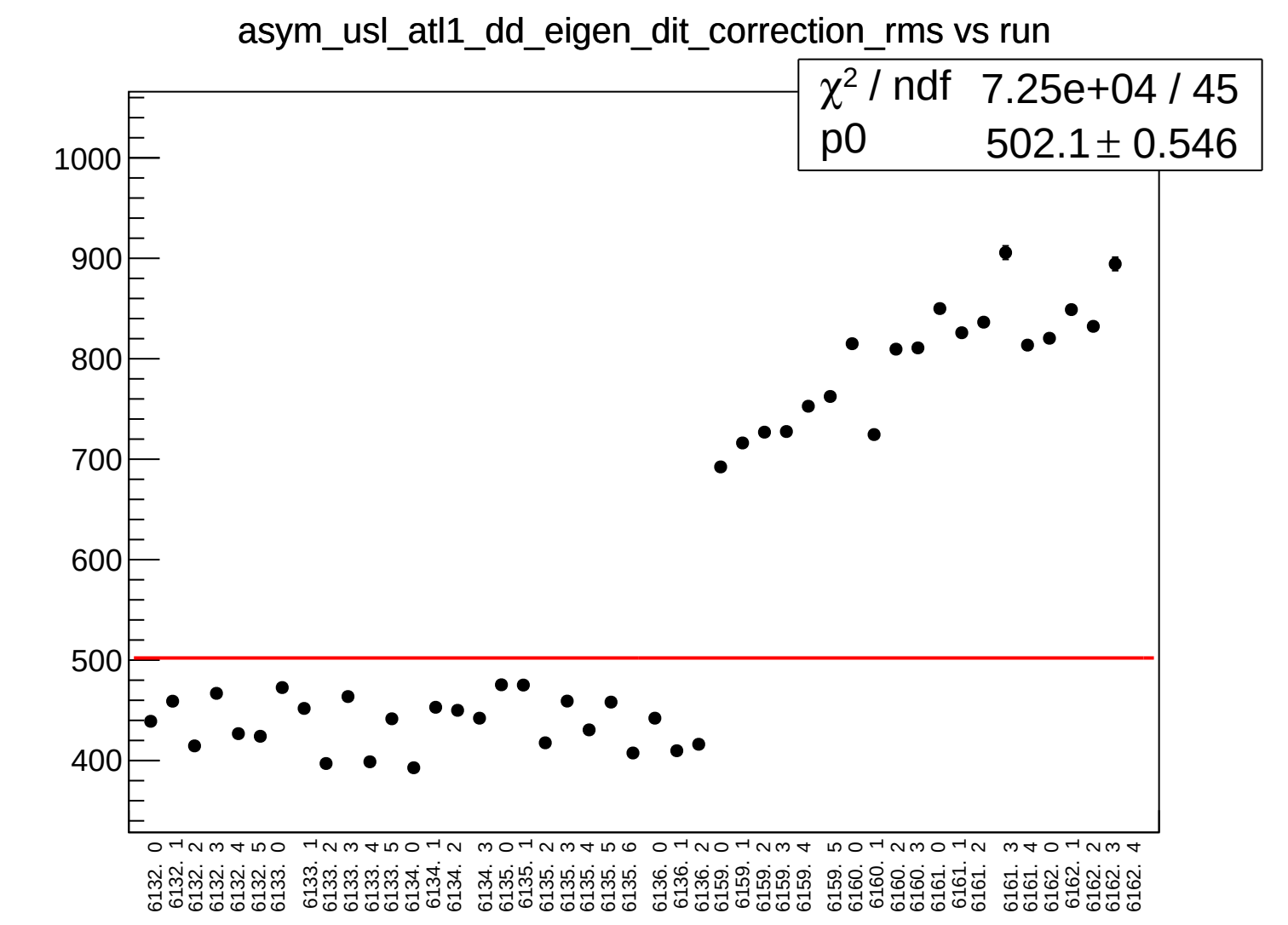

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 7.25e+04 / 45
p0 502.1 ± 0.546
1000
900
800
700
600
500
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

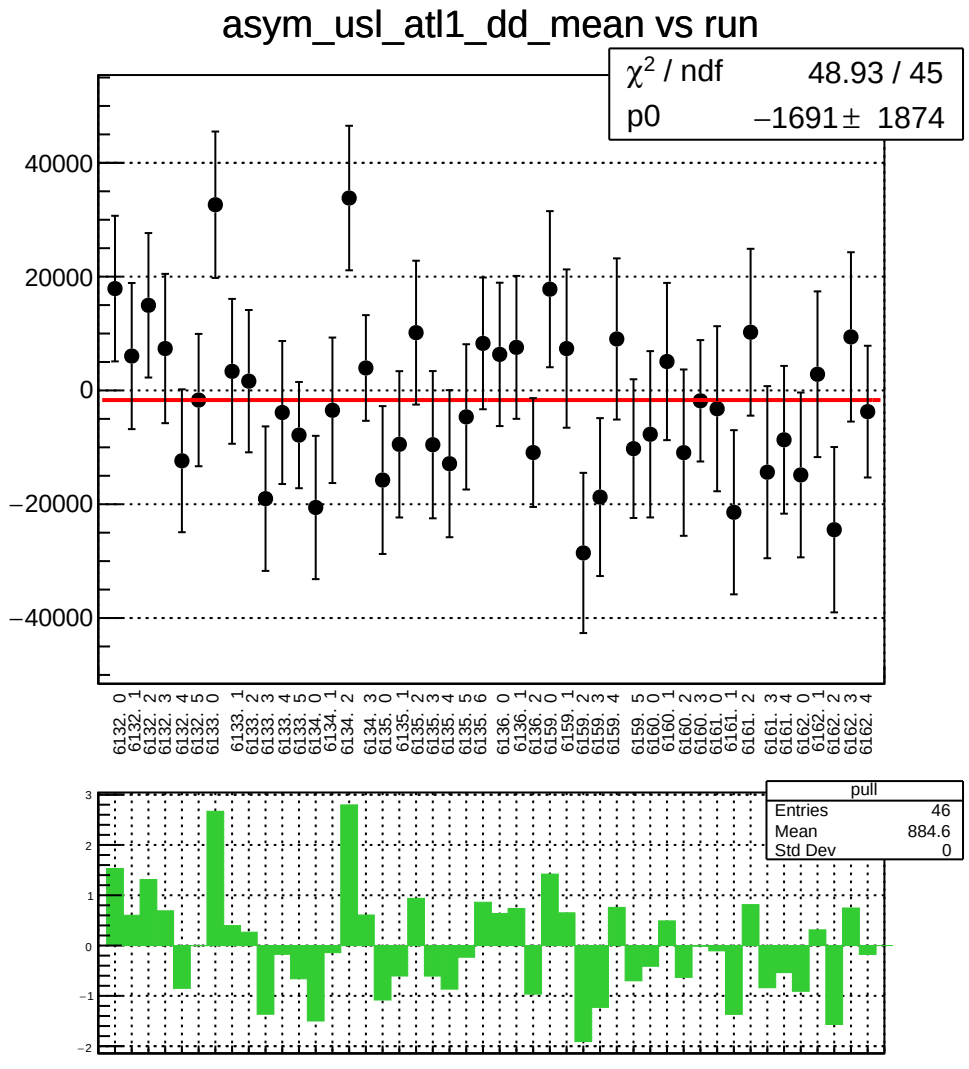

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 42.41 / 45
p0 −1241 ± 1660
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6136. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −190.7
Std Dev 0
3
2
1
0
−1
pull1D
Entries 46
Mean 0.01519
Std Dev 0.9601
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

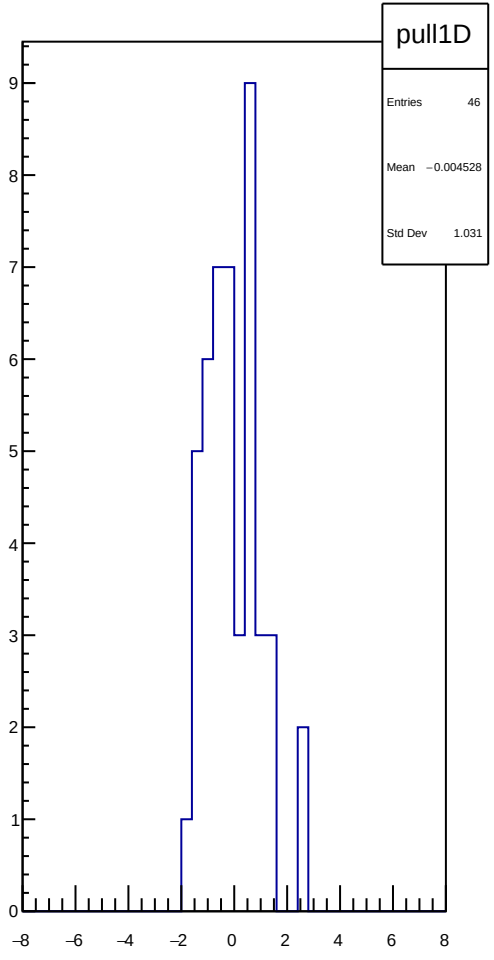

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 78.98 / 45
p0 1125 ± 1.174
1160
1150
1140
1130
1120
1110
1100
1090
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

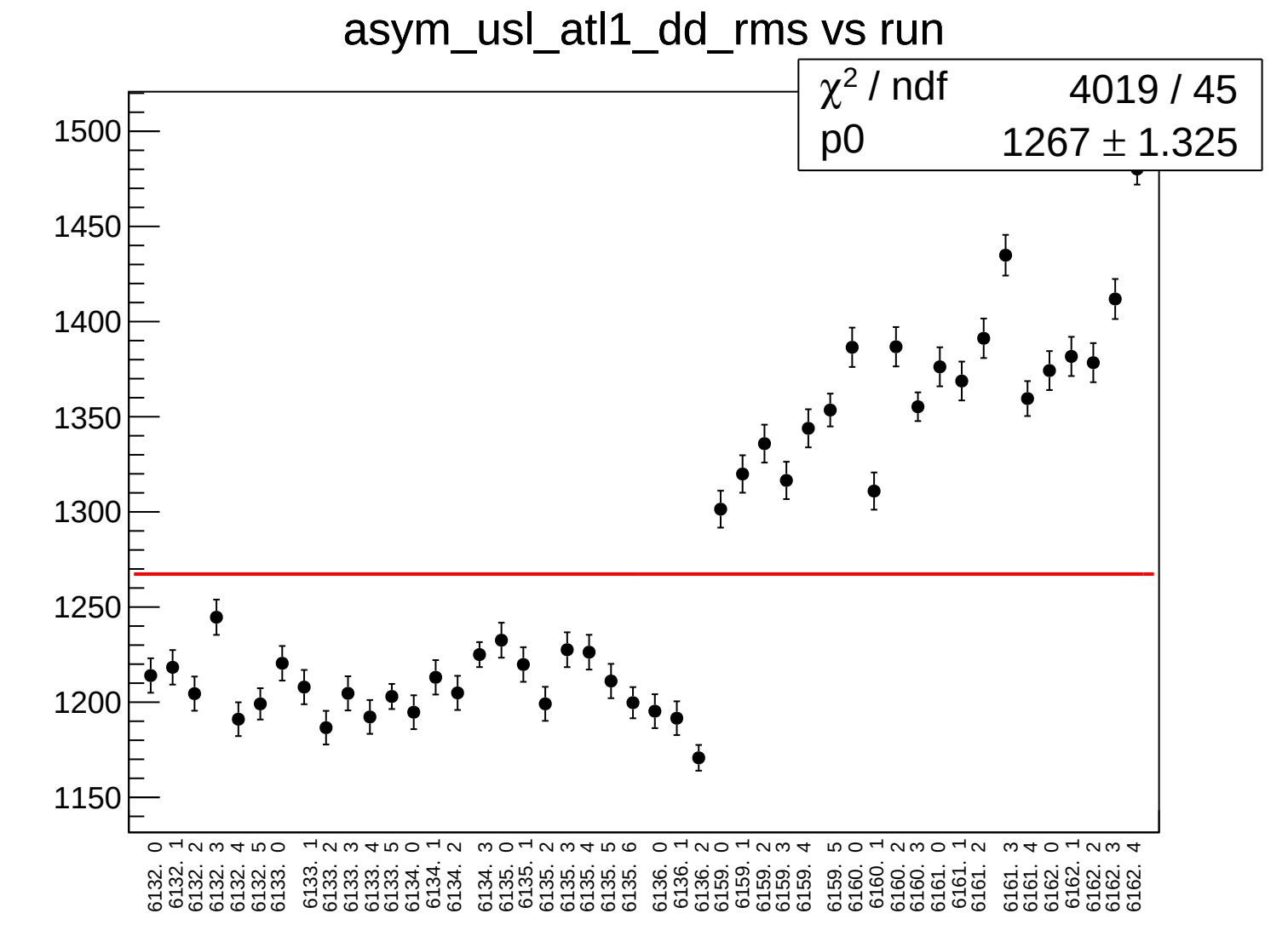

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 47.37 / 45
p0 277.2 ± 772.1
30000
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 64.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

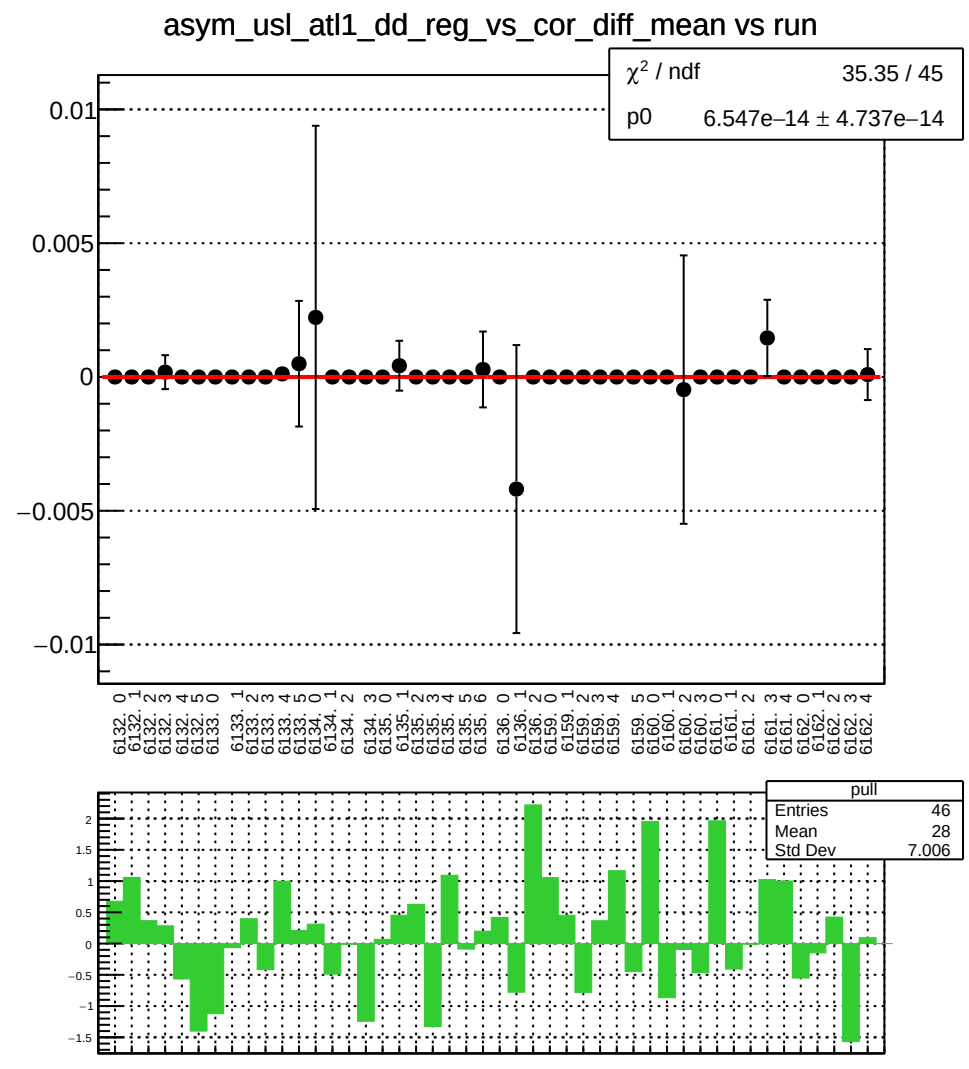

pull1D
Entries 46
Mean 0.04743
Std Dev 1.014
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

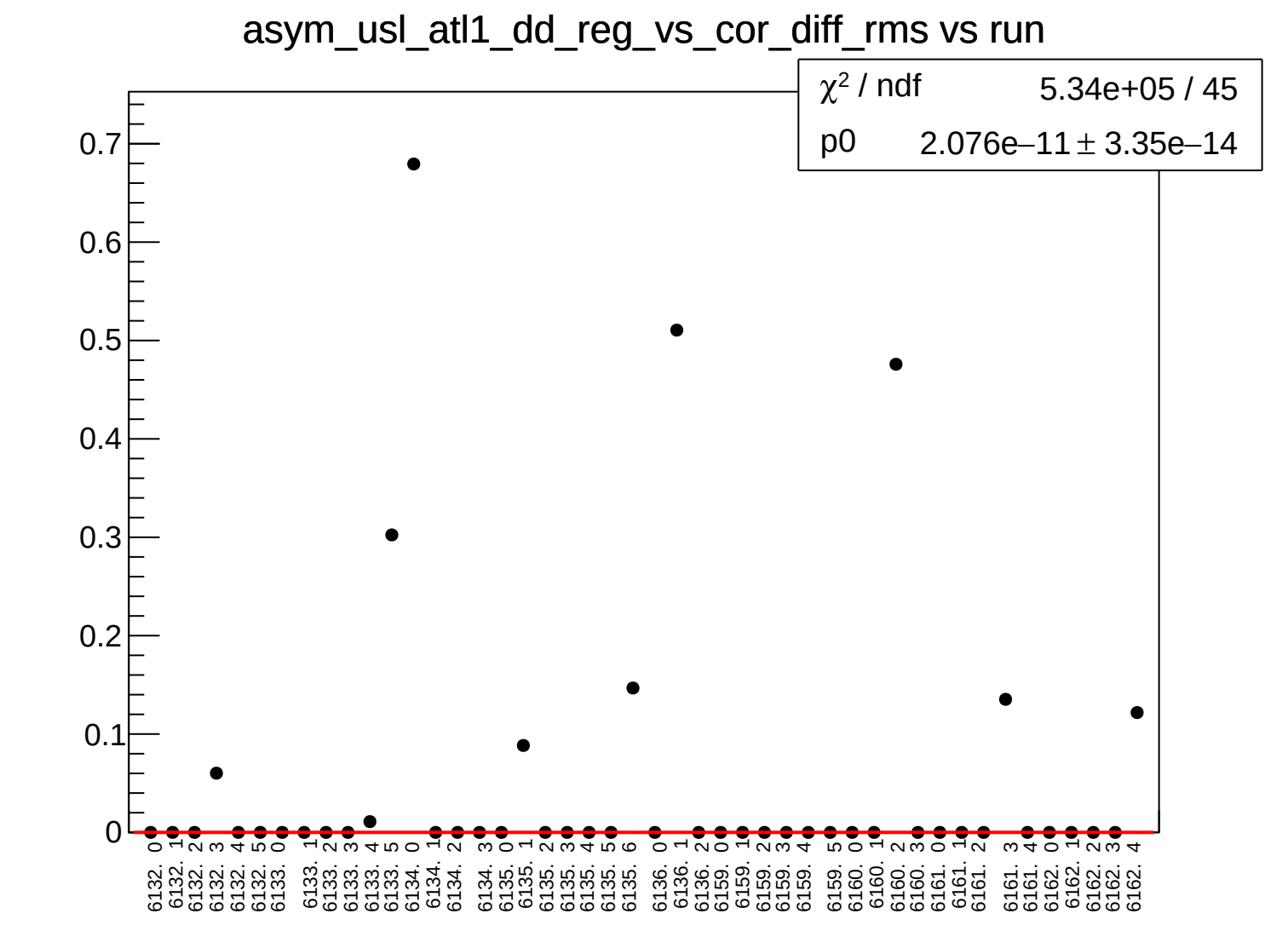

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 7.25e+04 / 45
p0 502.1 ± 0.546
1000
900
800
700
600
500
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

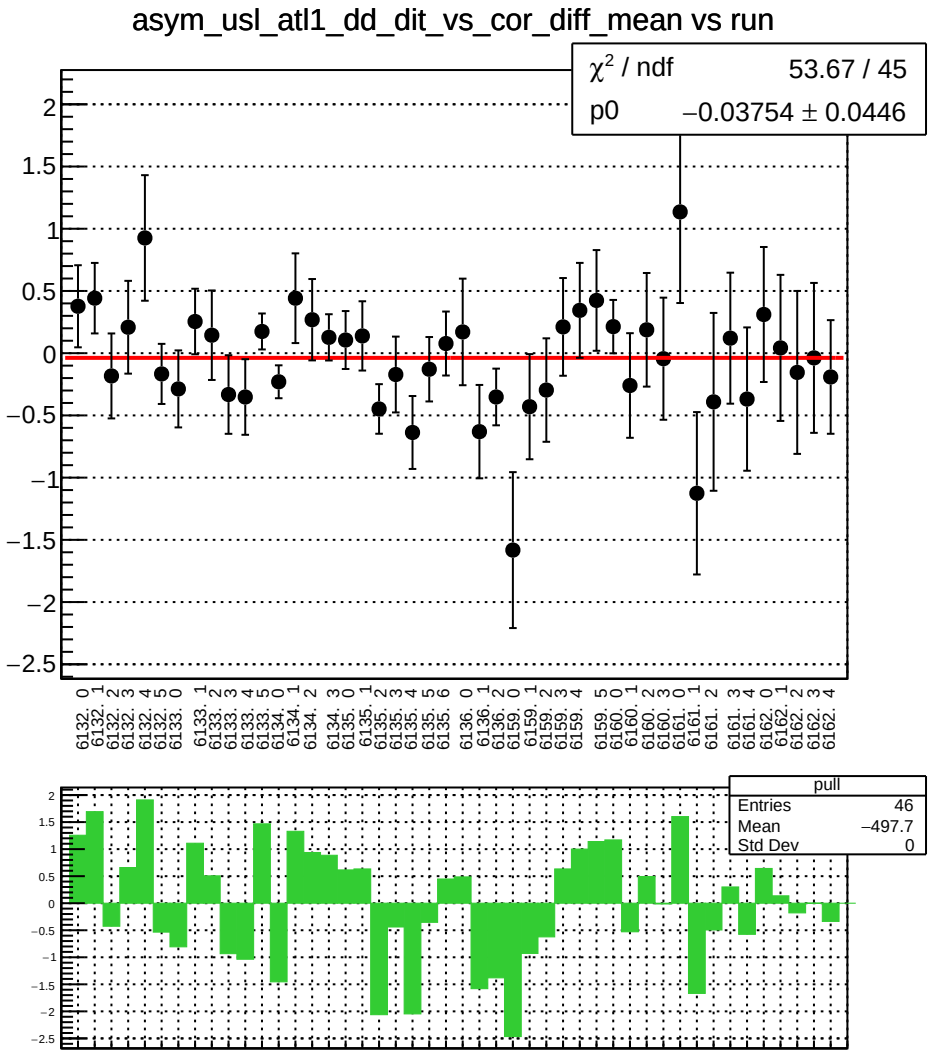

asym_usl_atl1_dd_mean vs run
χ² / ndf 48.93 / 45
p0 −1691 ± 1874
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 884.6
Std Dev 0
3
2
1
0
−1
−2

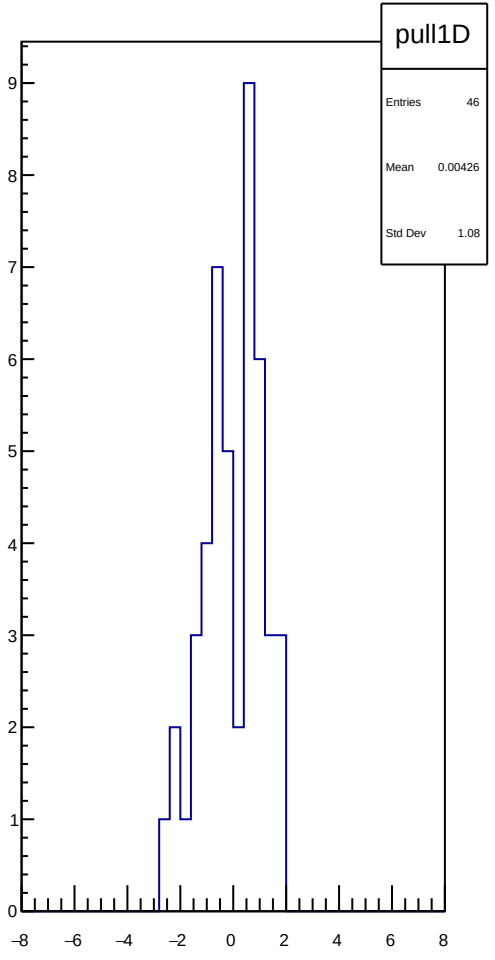

pull1D
Entries 46
Mean −0.004528
Std Dev 1.031
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

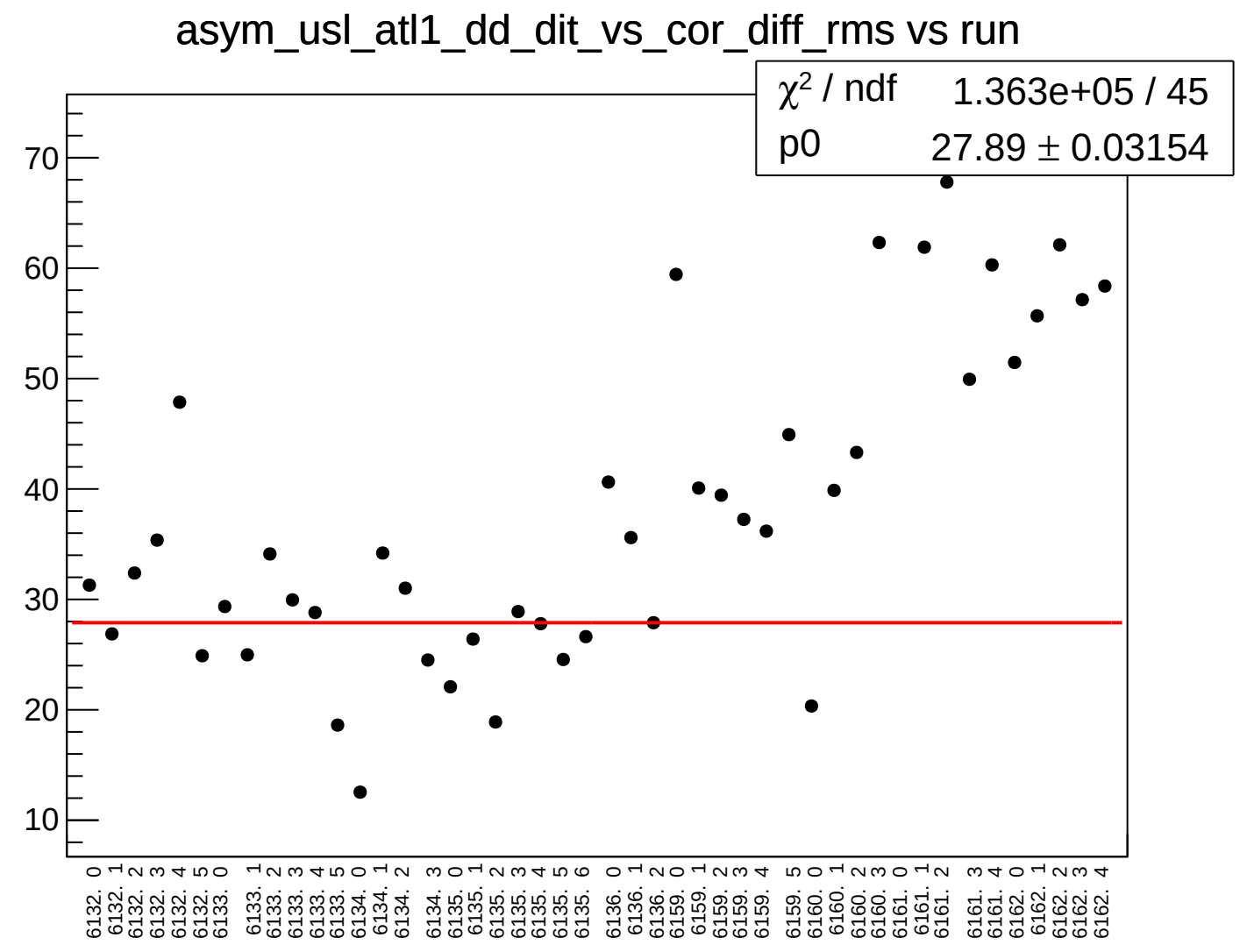

asym_usl_atl1_dd_rms vs run
χ² / ndf 4019 / 45
p0 1267 ± 1.325
1500
1450
1400
1350
1300
1250
1200
1150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 35.35 / 45
p0 6.547e−14 ± 4.737e−14
0.01
0.005
0
−0.005
−0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 28
Std Dev 7.006
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.1311
Std Dev 0.8668
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.34e+05 / 45
p0 2.076e−11 ± 3.35e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 53.67 / 45
p0 −0.03754 ± 0.0446
pull
Entries 46
Mean −497.7
Std Dev 0


pull1D
Entries 46
Mean 0.00426
Std Dev 1.08


asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.363e+05 / 45
p0 27.89 ± 0.03154
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
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6136. 0
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6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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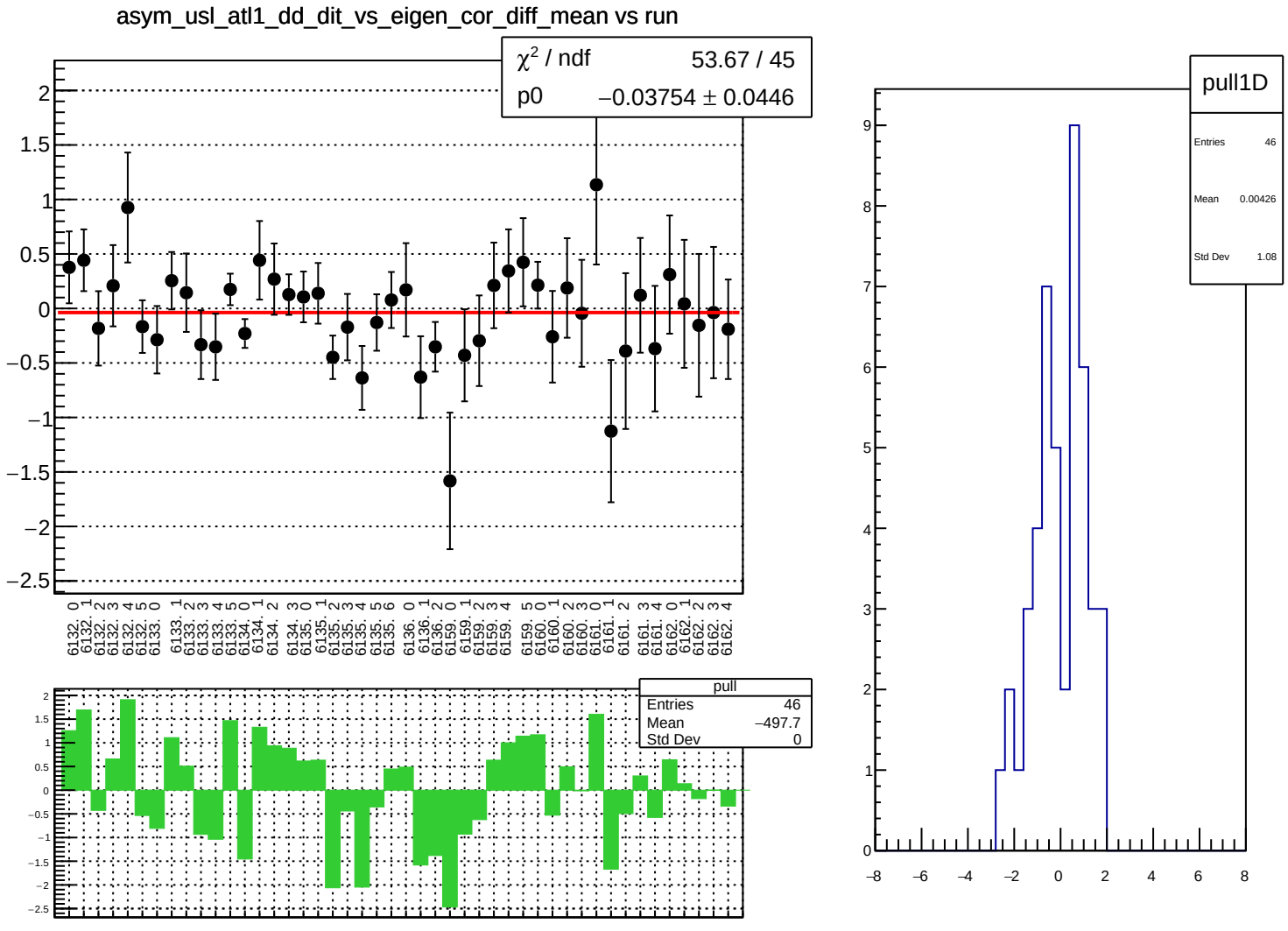
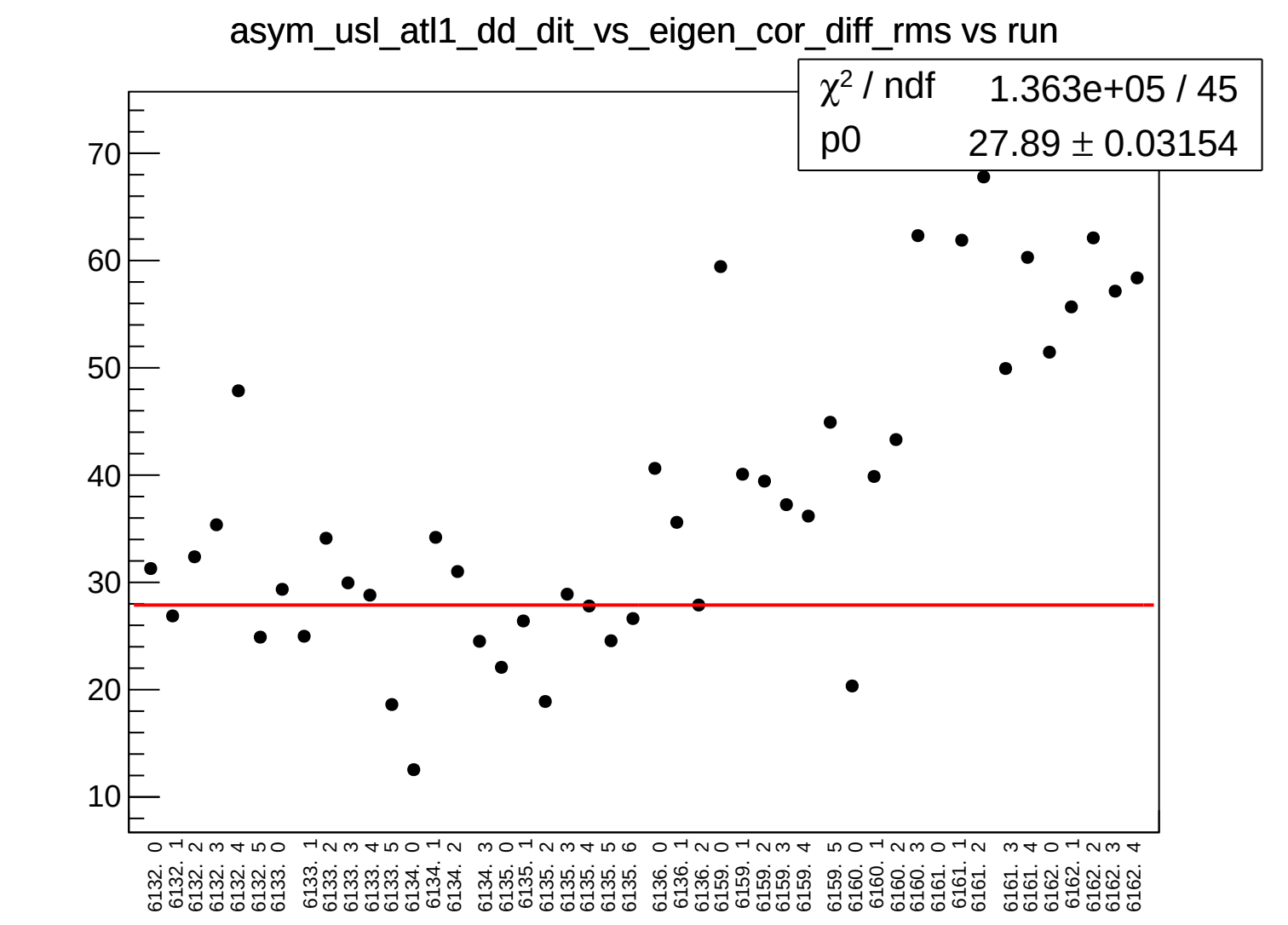
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 53.67 / 45
p0 −0.03754 ± 0.0446
pull
Entries 46
Mean −497.7
Std Dev 0
pull1D
Entries 46
Mean 0.00426
Std Dev 1.08


asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.363e+05 / 45
p0 27.89 ± 0.03154
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
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6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 3
6161. 4
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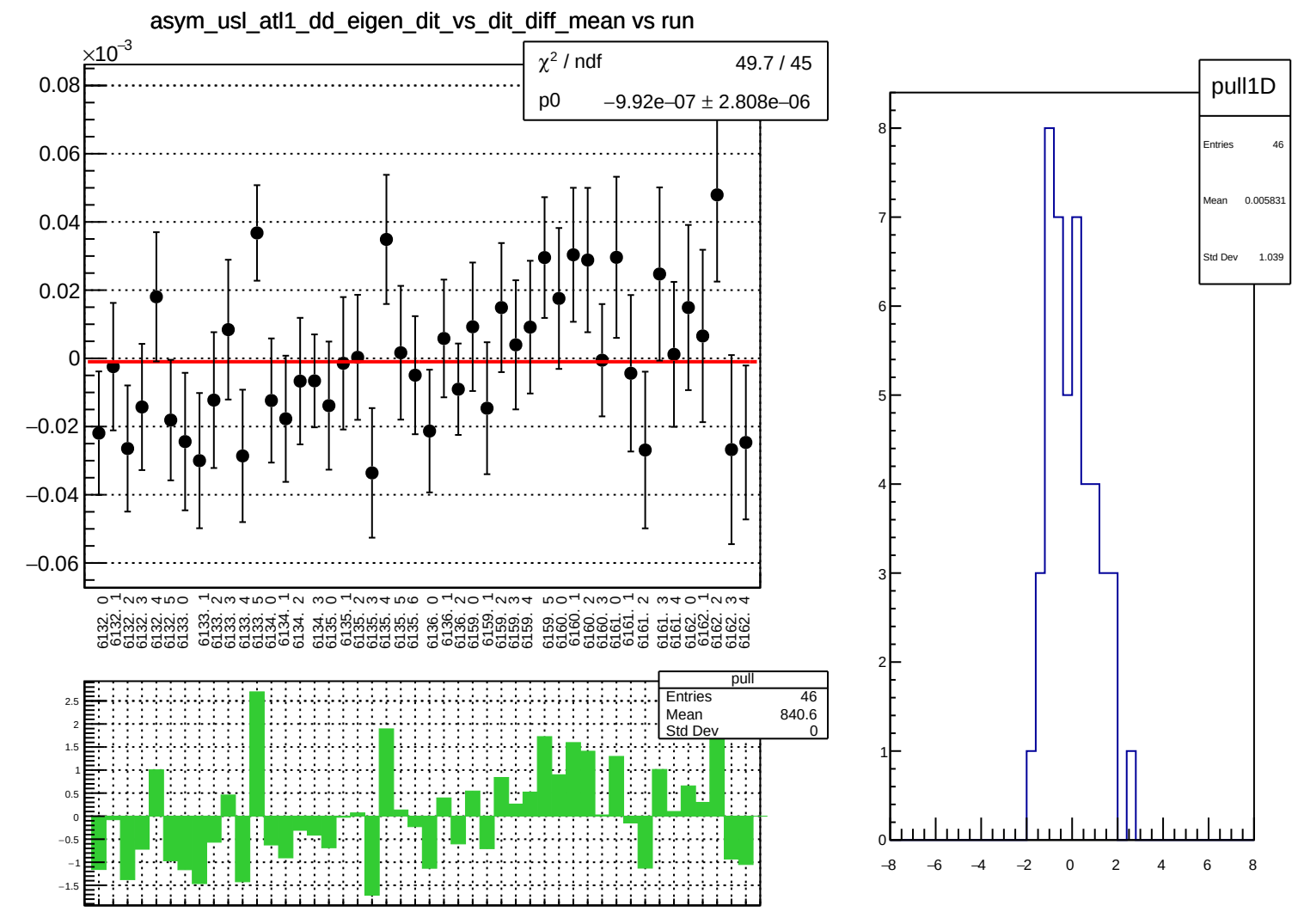
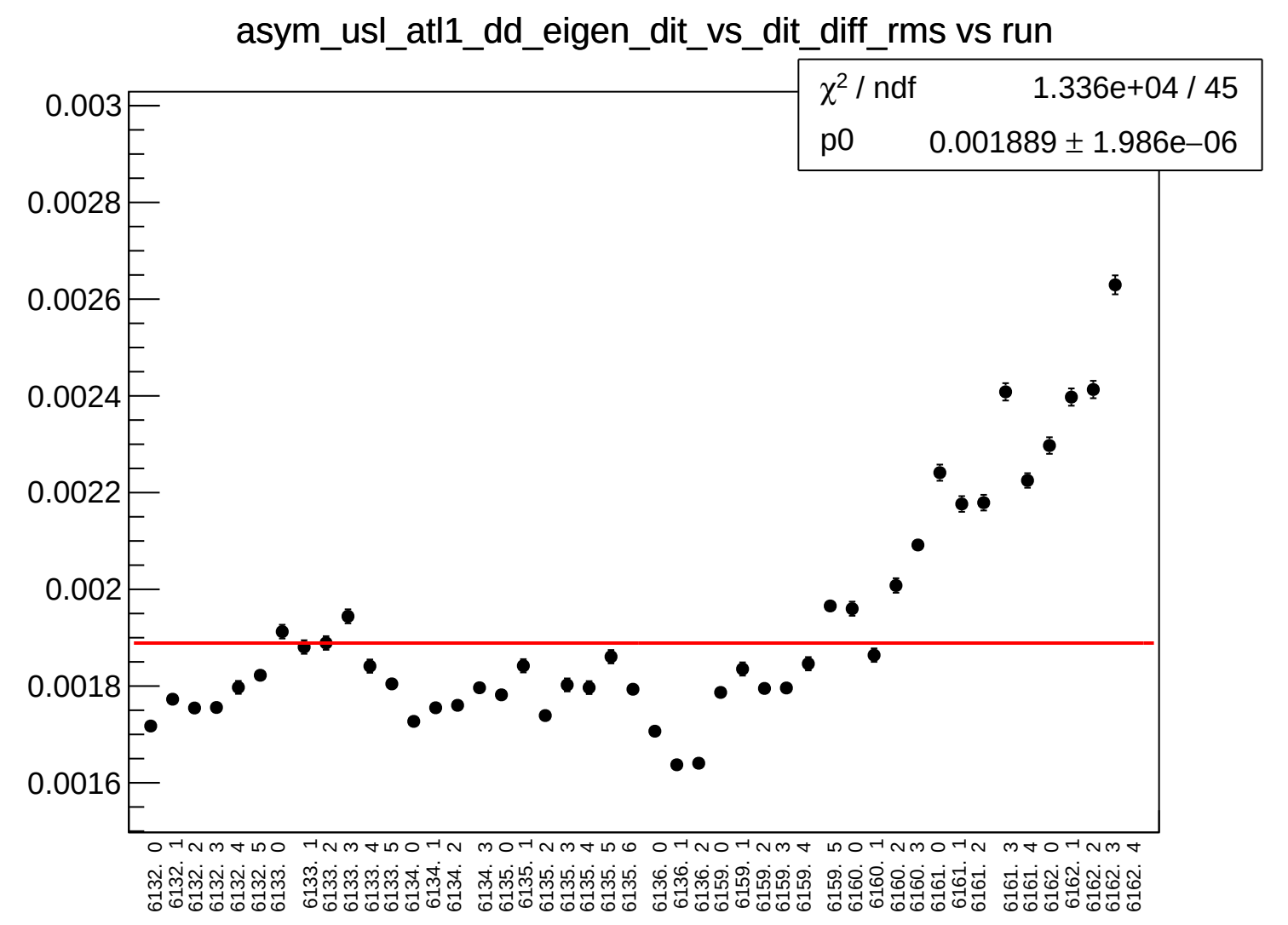
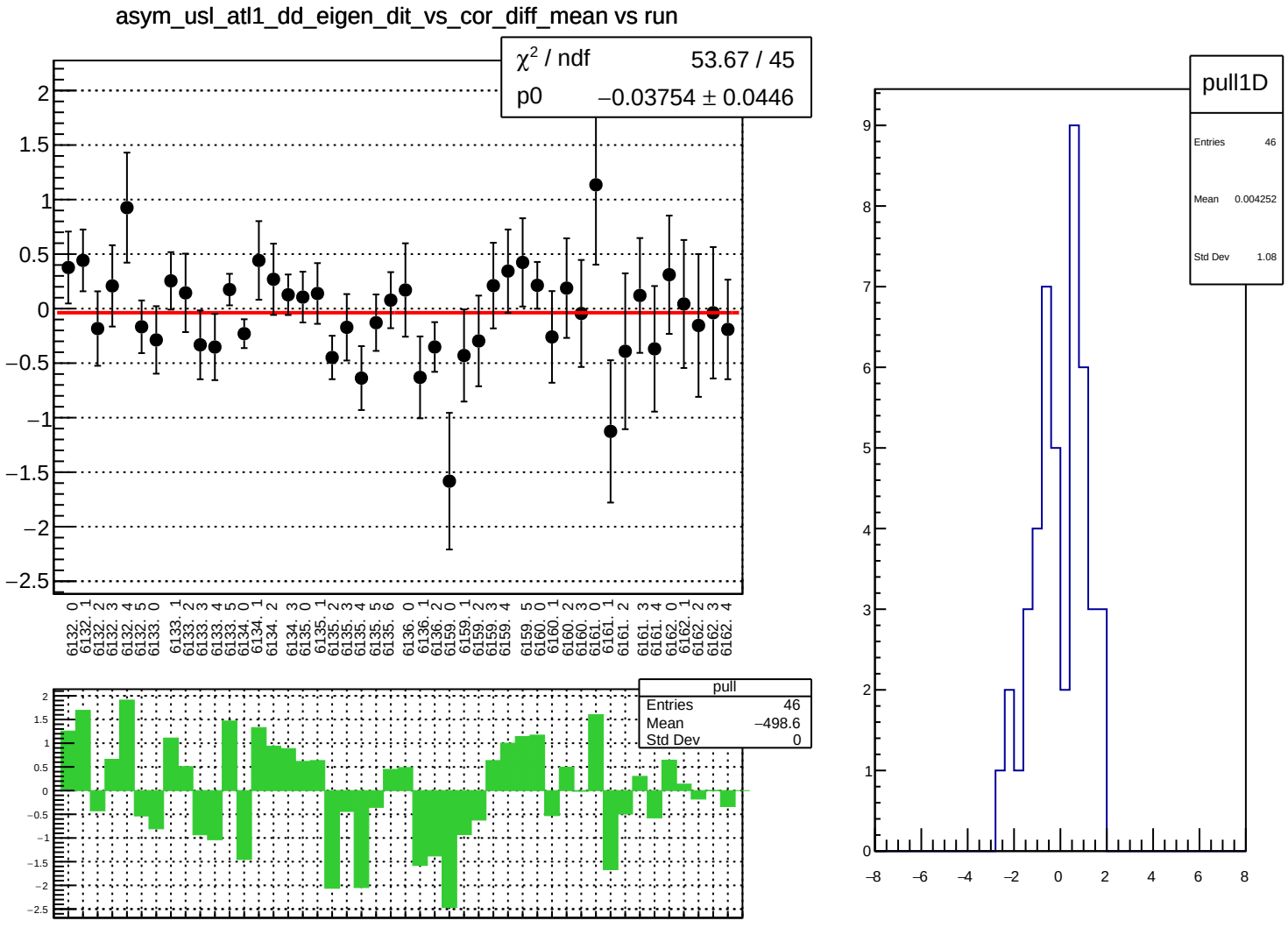
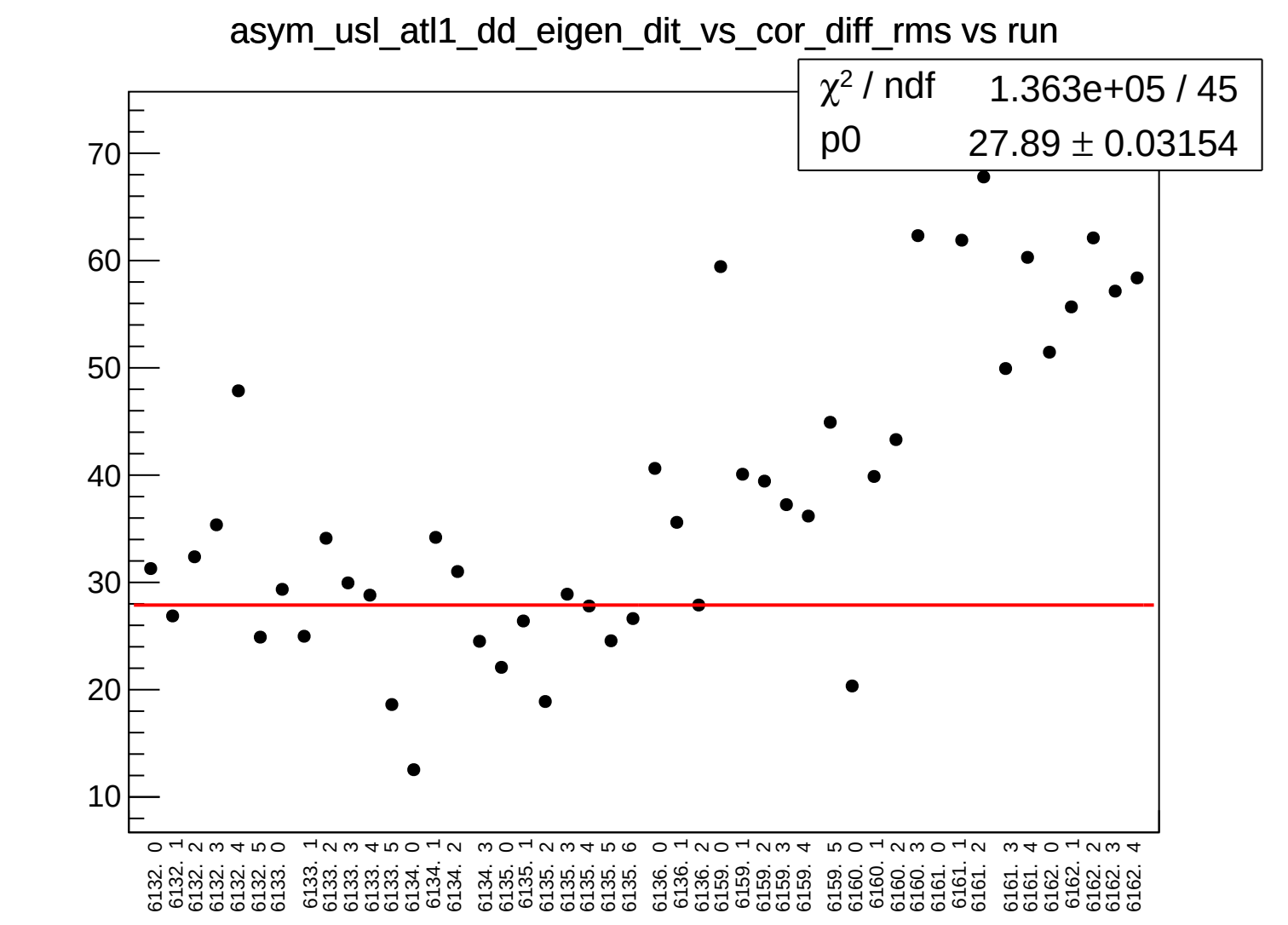
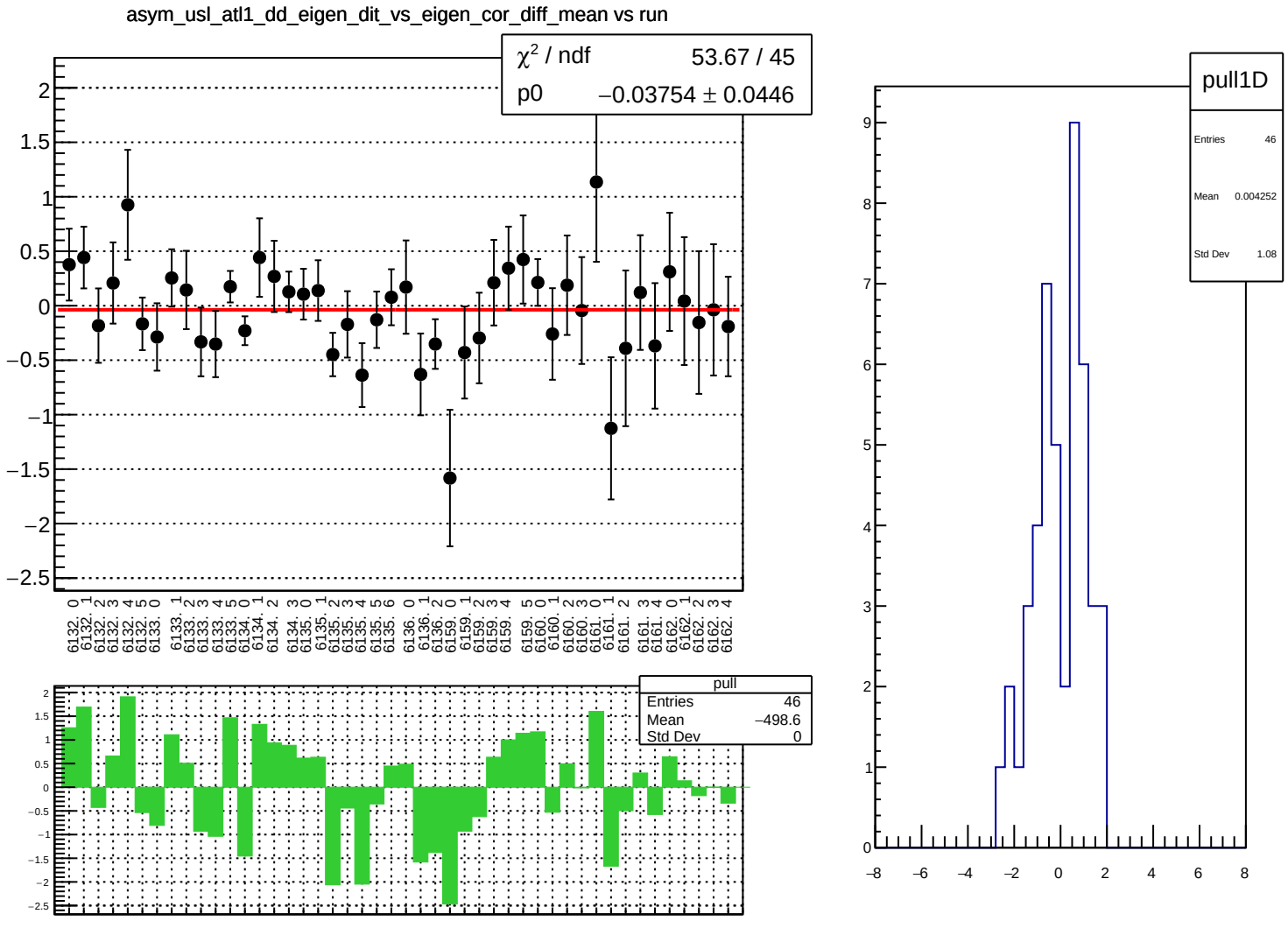
6162. 4

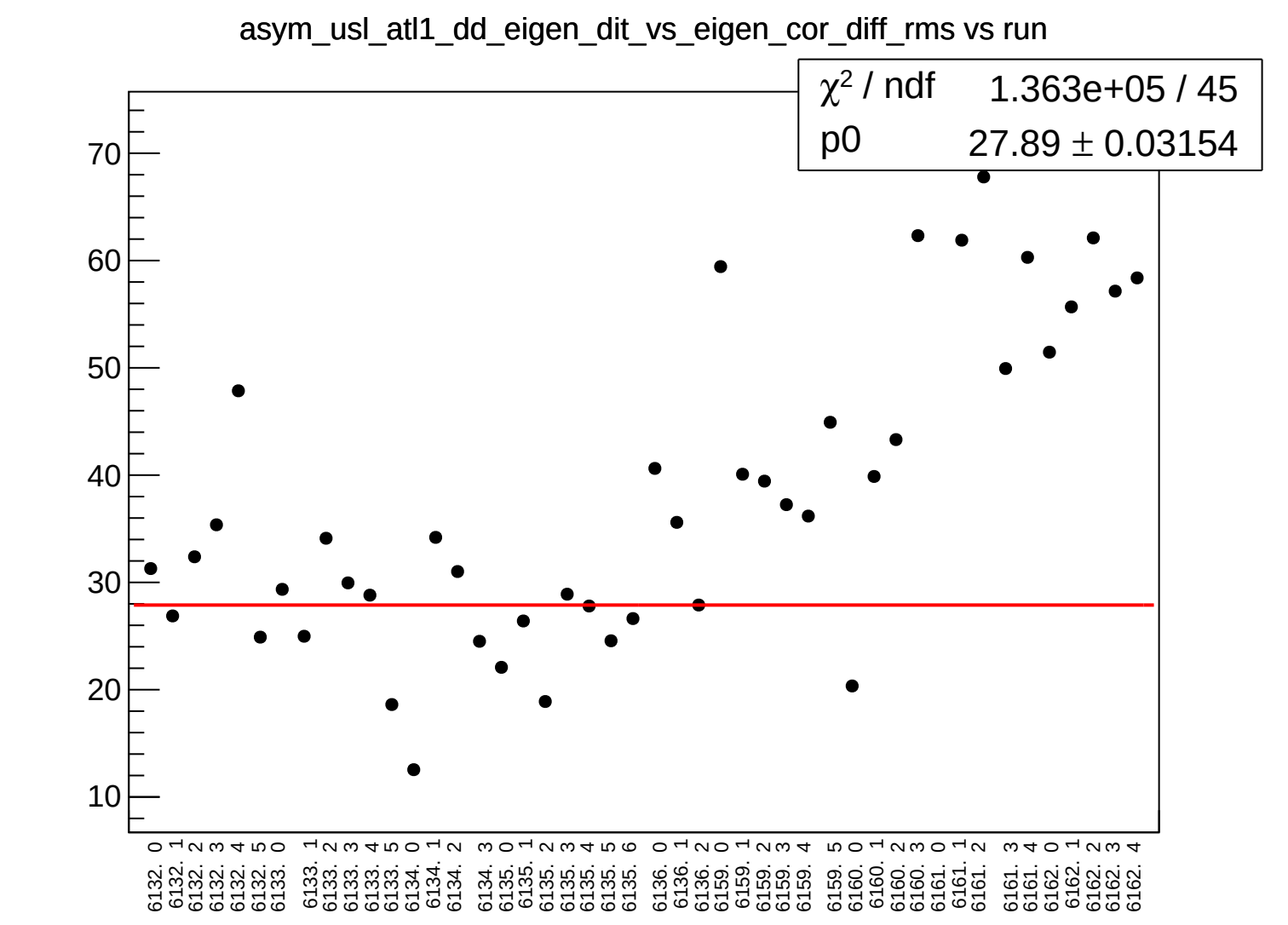

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 49.7 / 45
p0 −9.92e−07 ± 2.808e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 840.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.005831
Std Dev 1.039
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

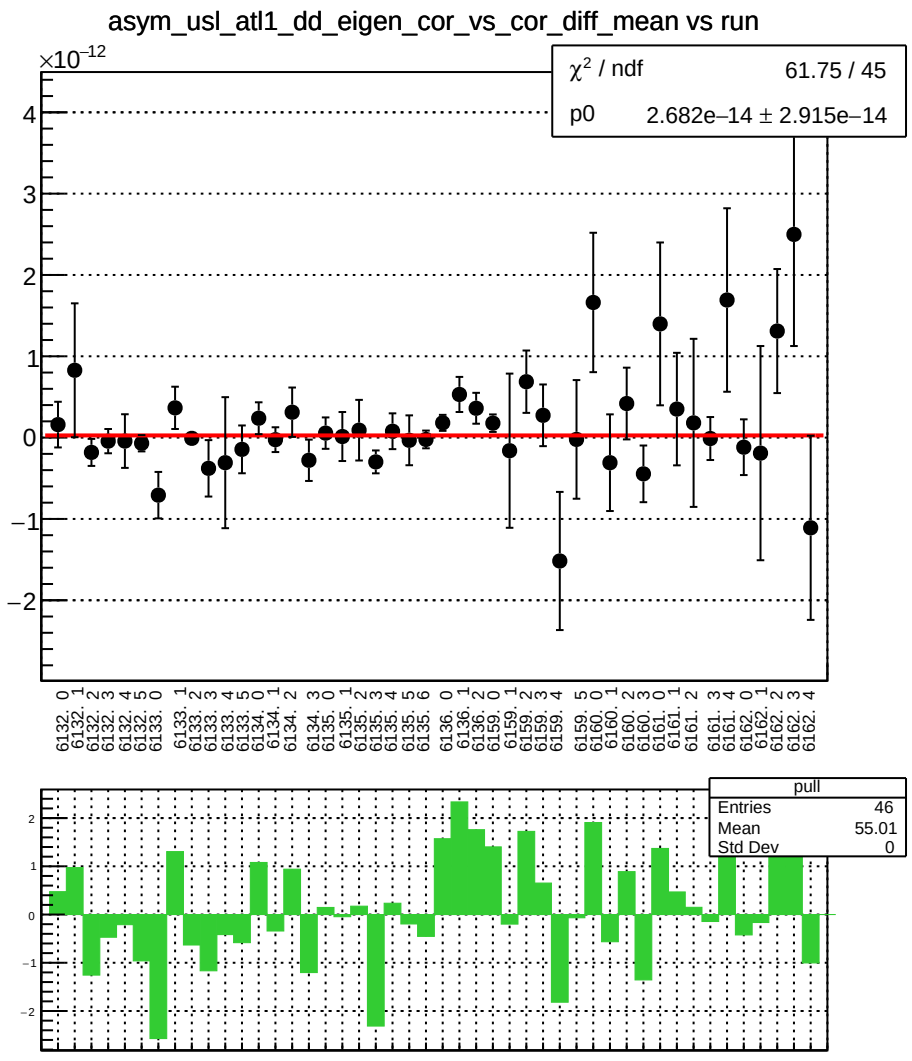

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.336e+04 / 45
p0 0.001889 ± 1.986e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

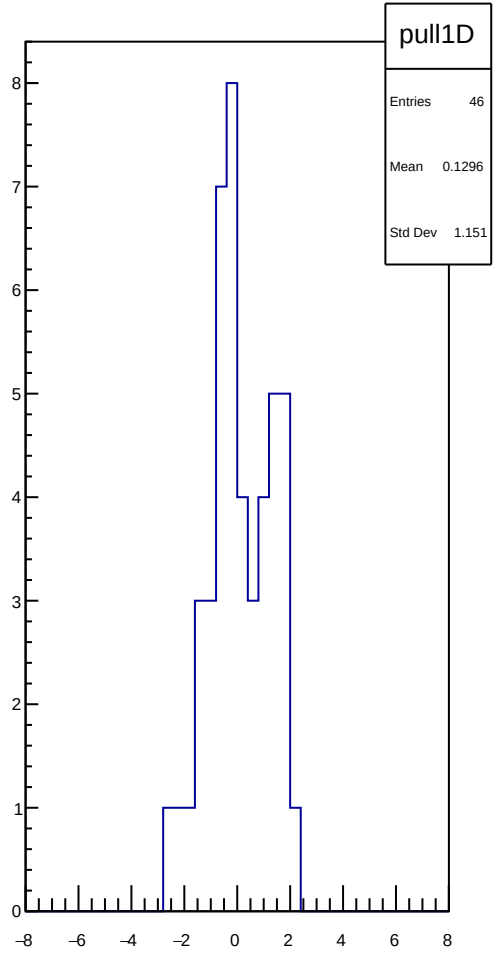

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 53.67 / 45
p0 −0.03754 ± 0.0446
pull
Entries 46
Mean −498.6
Std Dev 0
pull1D
Entries 46
Mean 0.004252
Std Dev 1.08

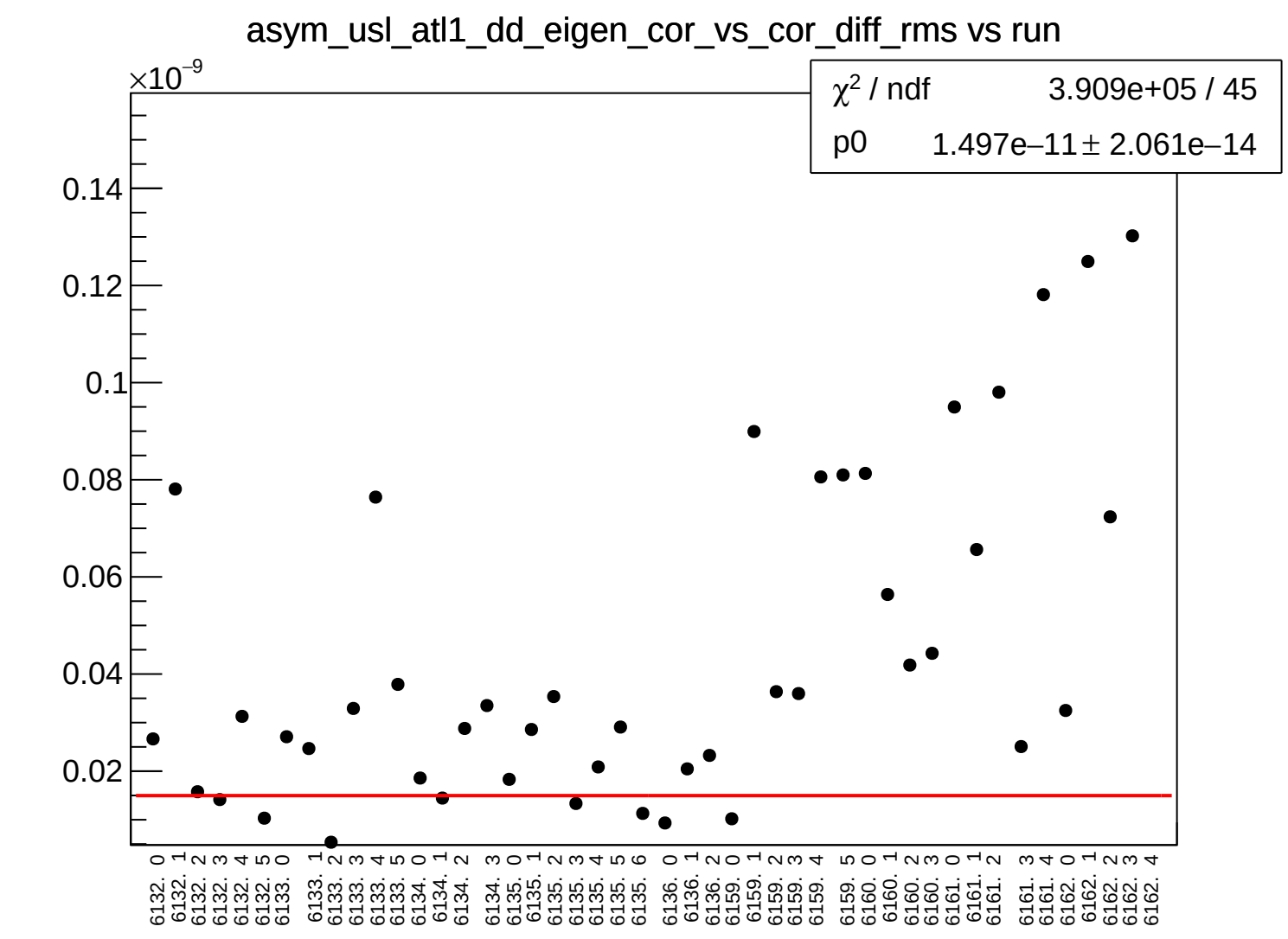

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.363e+05 / 45
p0 27.89 ± 0.03154
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

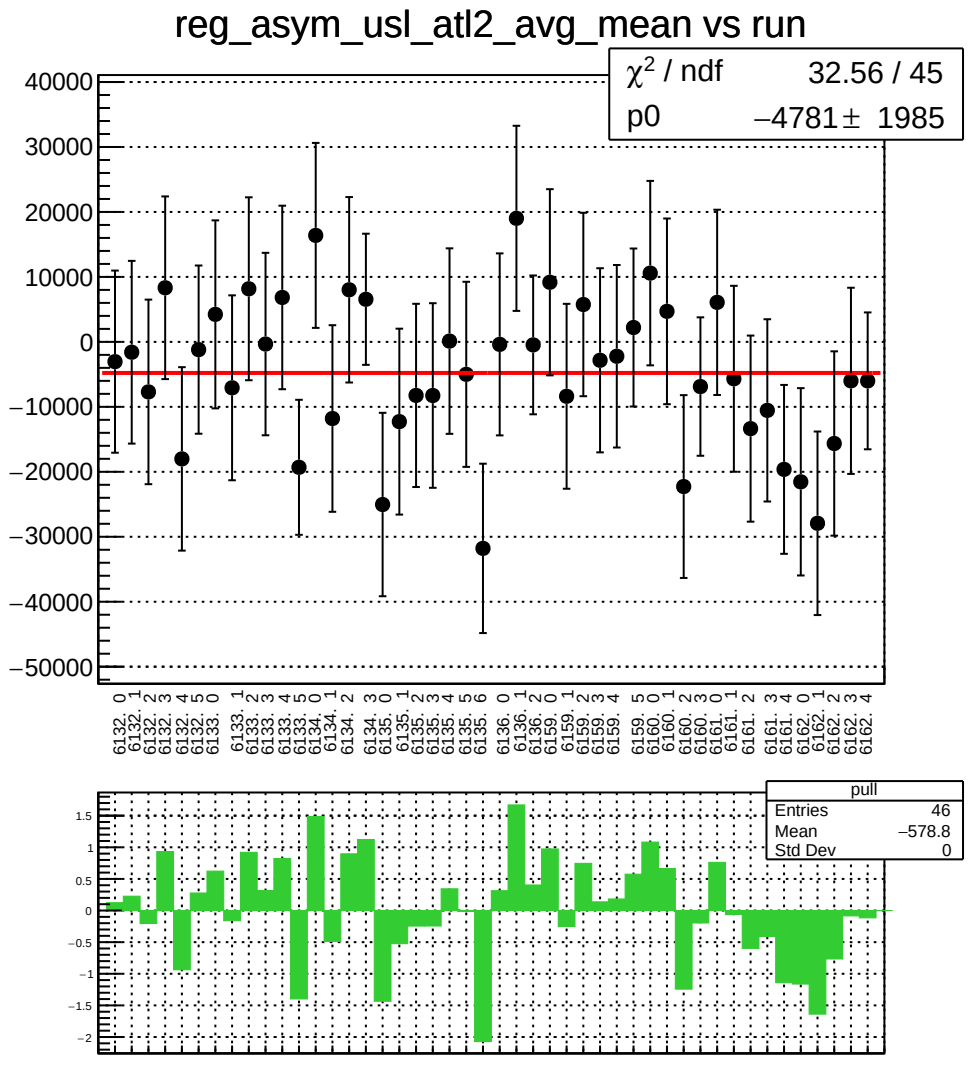

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 53.67 / 45
p0 −0.03754 ± 0.0446
pull
Entries 46
Mean −498.6
Std Dev 0
pull1D
Entries 46
Mean 0.004252
Std Dev 1.08

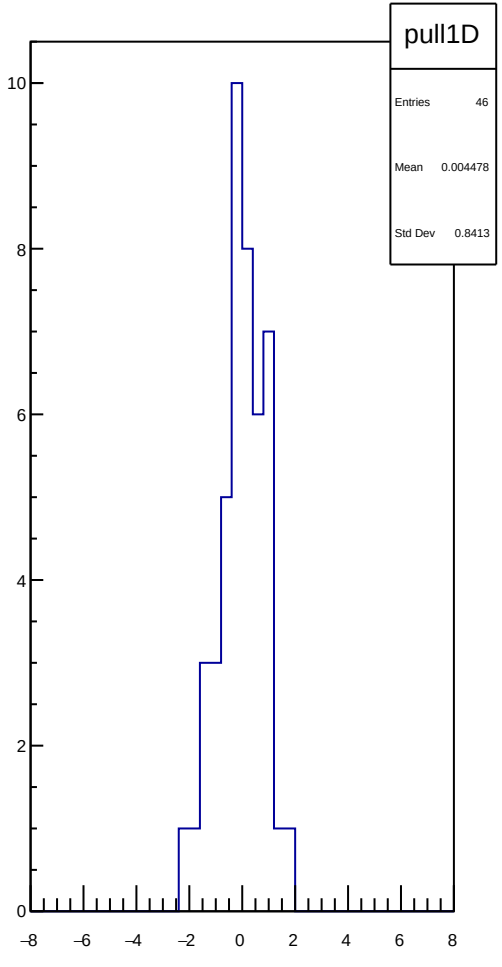

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.363e+05 / 45
p0 27.89 ± 0.03154
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

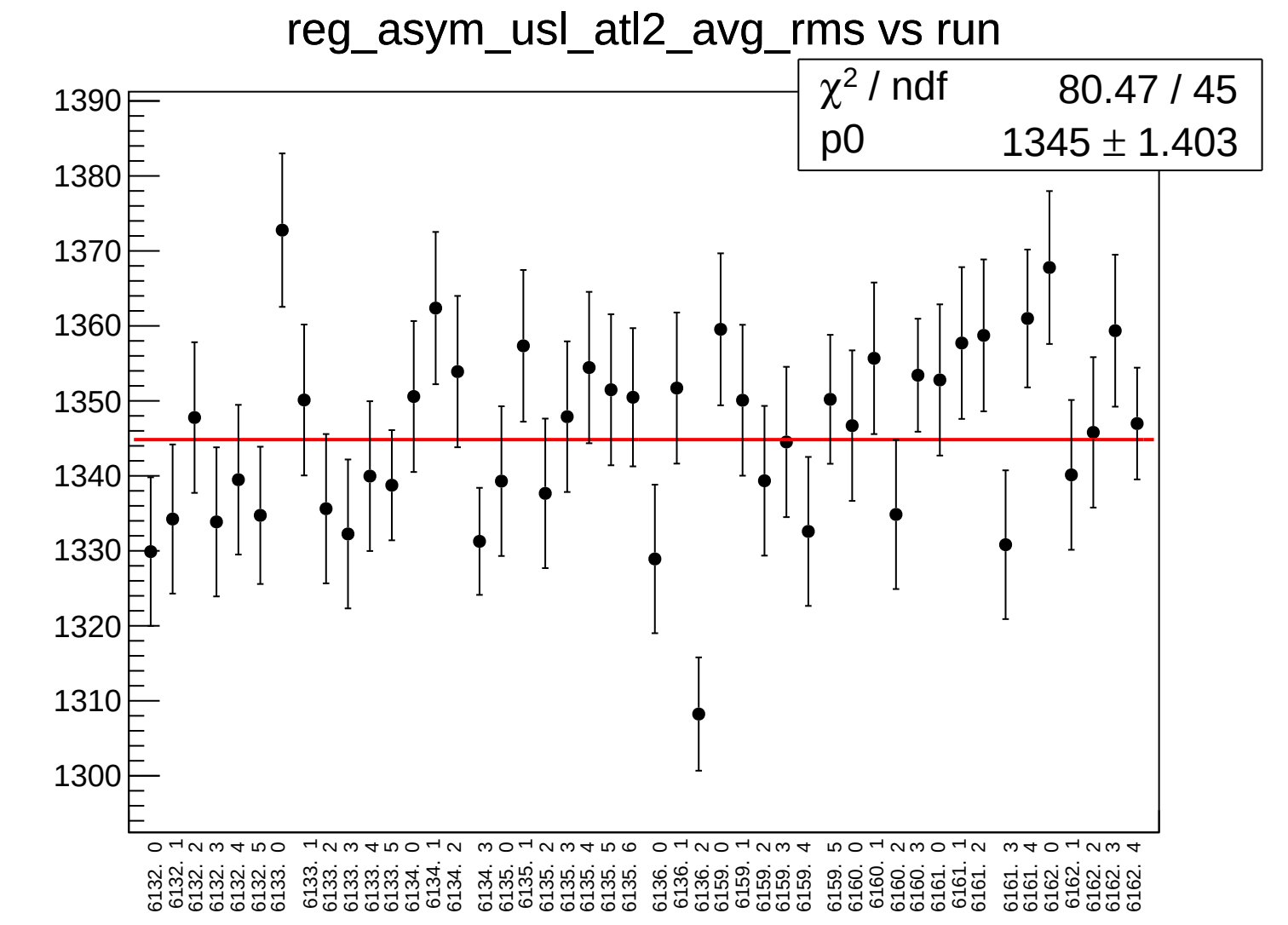

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 61.75 / 45
p0 2.682e−14 ± 2.915e−14
pull
Entries 46
Mean 55.01
Std Dev 0

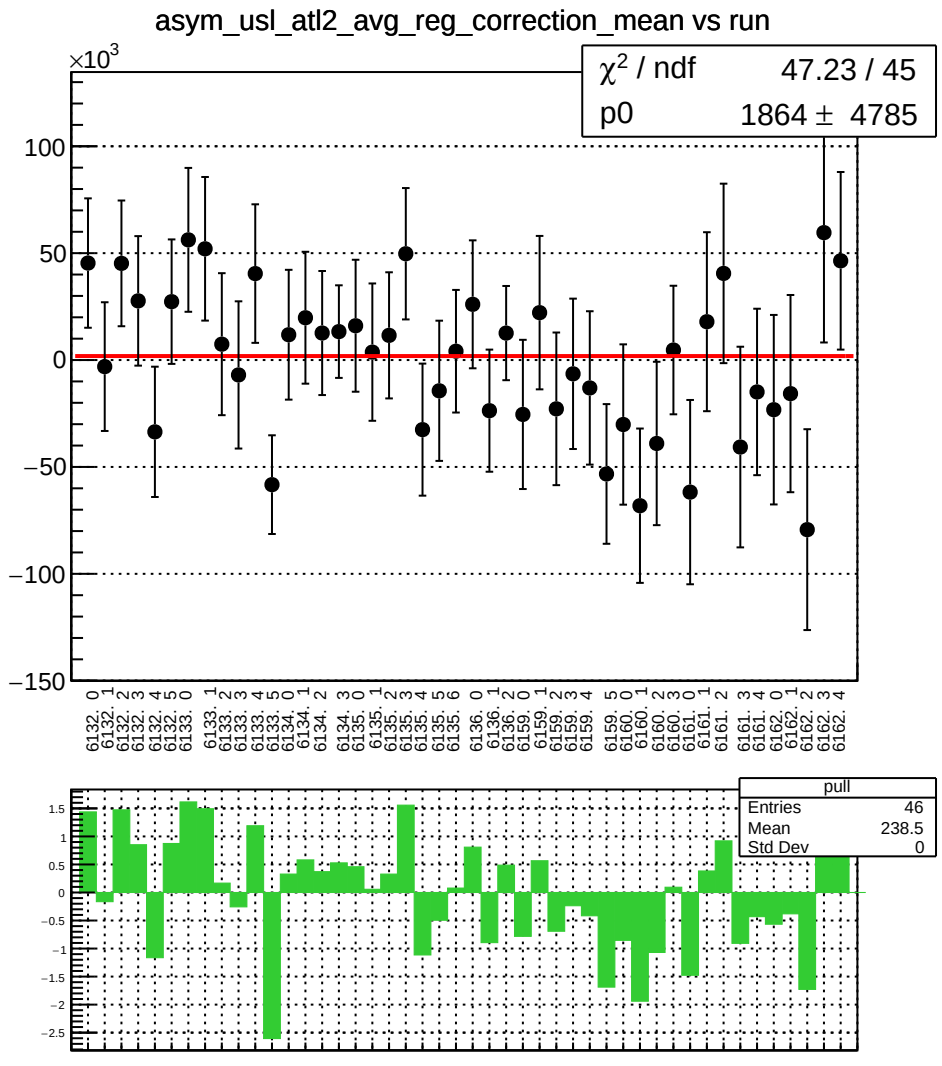

pull1D
Entries 46
Mean 0.1296
Std Dev 1.151

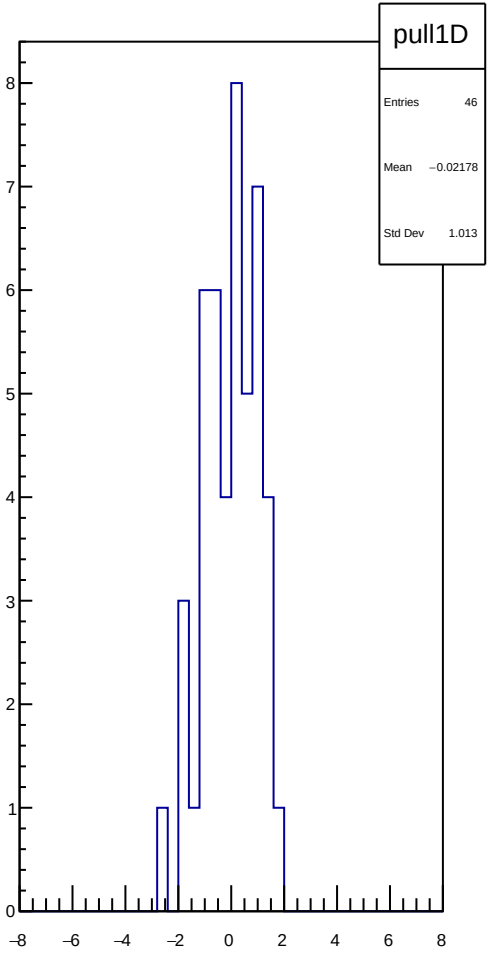

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.909e+05 / 45
p0 1.497e−11 ± 2.061e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

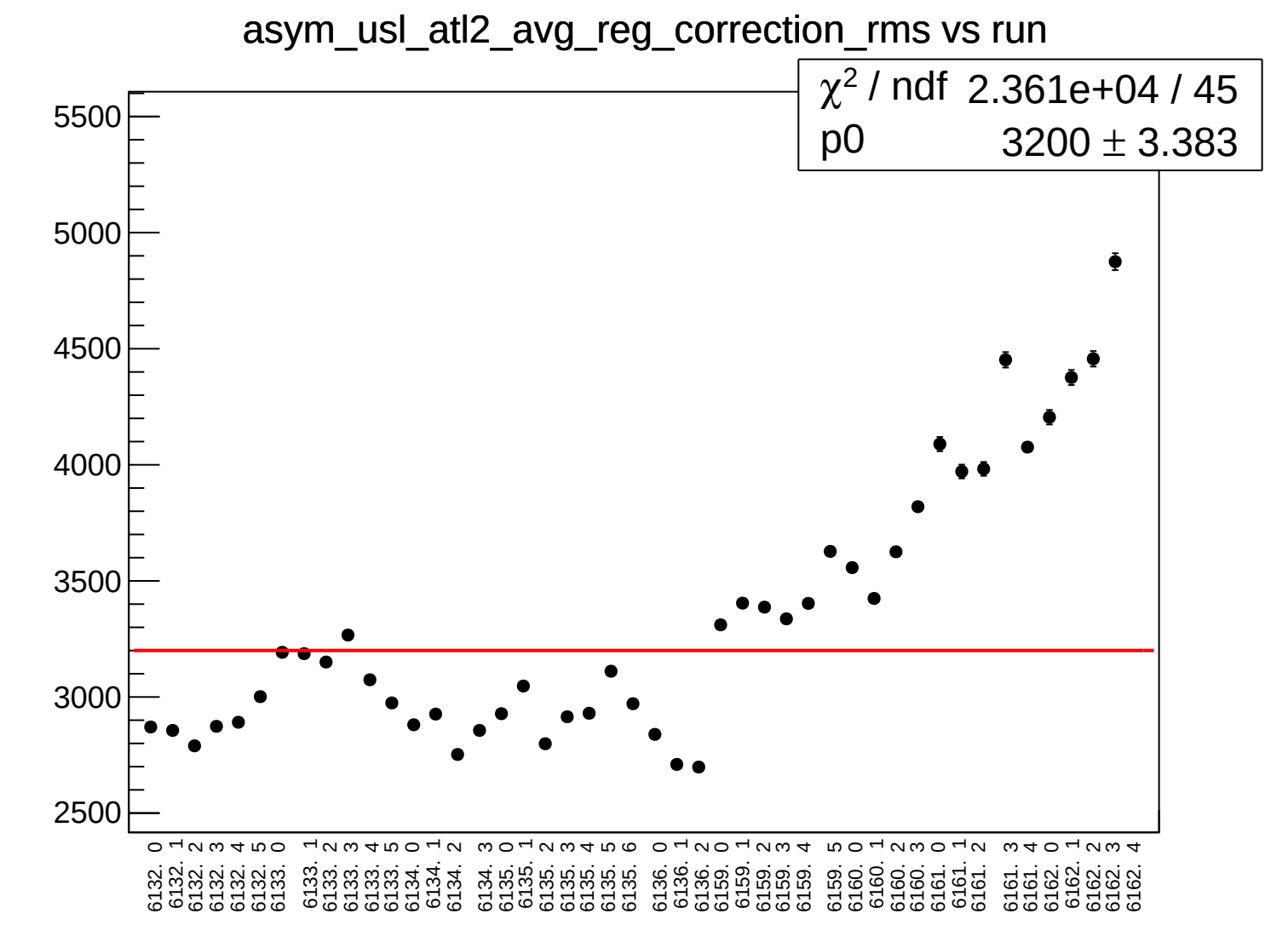

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 32.56 / 45
p0 −4781 ± 1985
pull
Entries 46
Mean −578.8
Std Dev 0

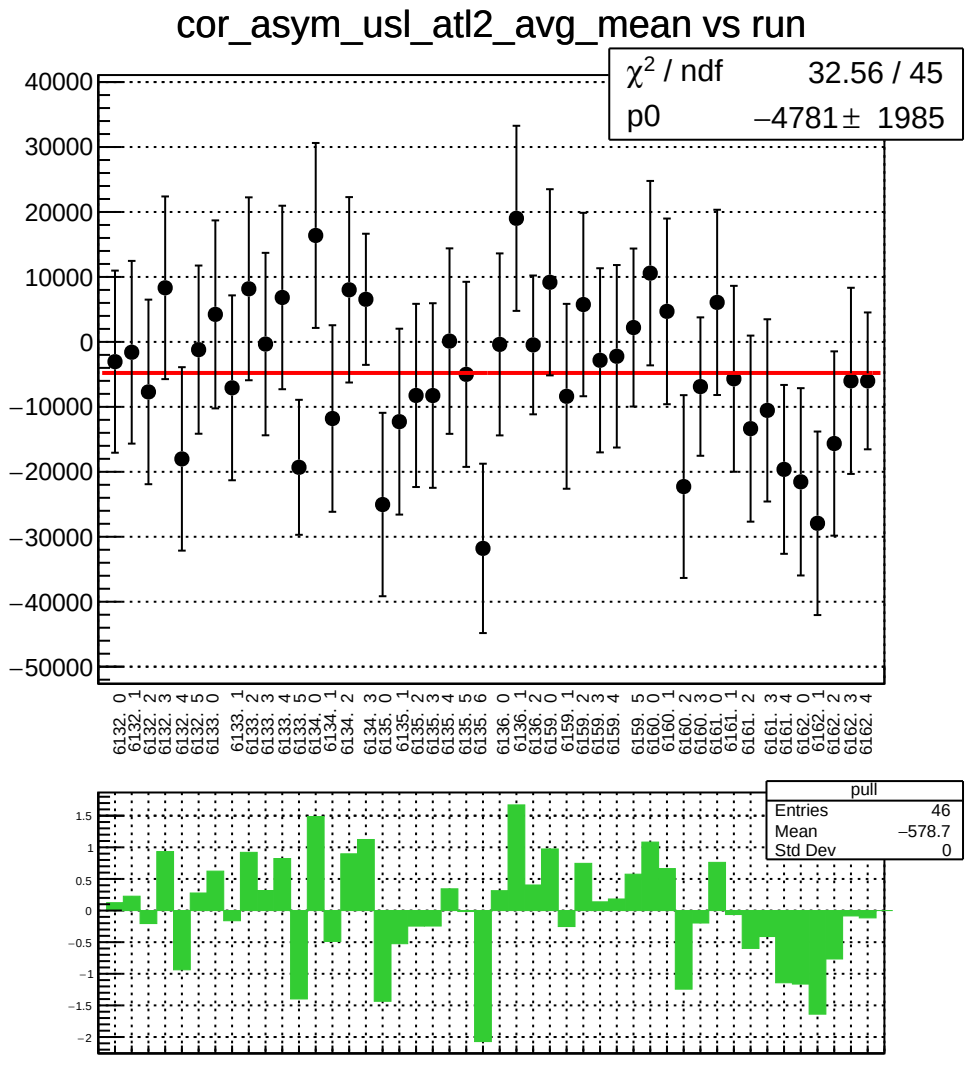

pull1D
Entries 46
Mean 0.004478
Std Dev 0.8413

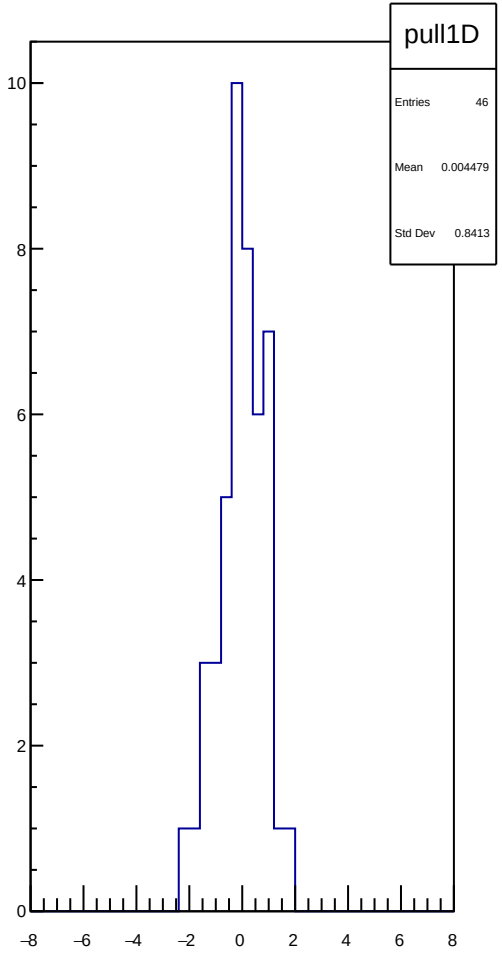

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 80.47 / 45
p0 1345 ± 1.403
1390
1380
1370
1360
1350
1340
1330
1320
1310
1300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

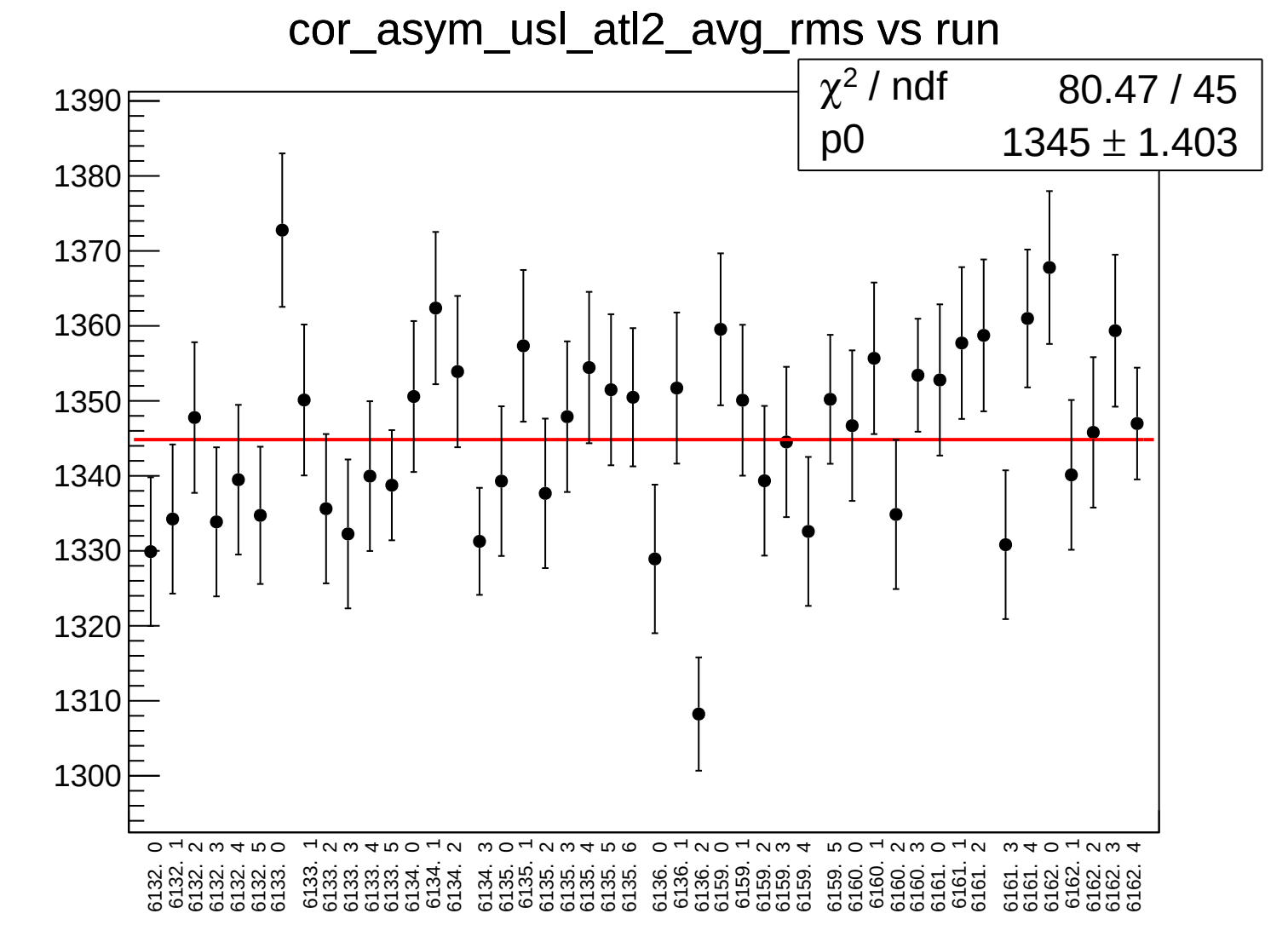

asym_usl_atl2_avg_reg_correction_mean vs run
χ² / ndf 47.23 / 45
p0 1864 ± 4785
pull
Entries 46
Mean 238.5
Std Dev 0

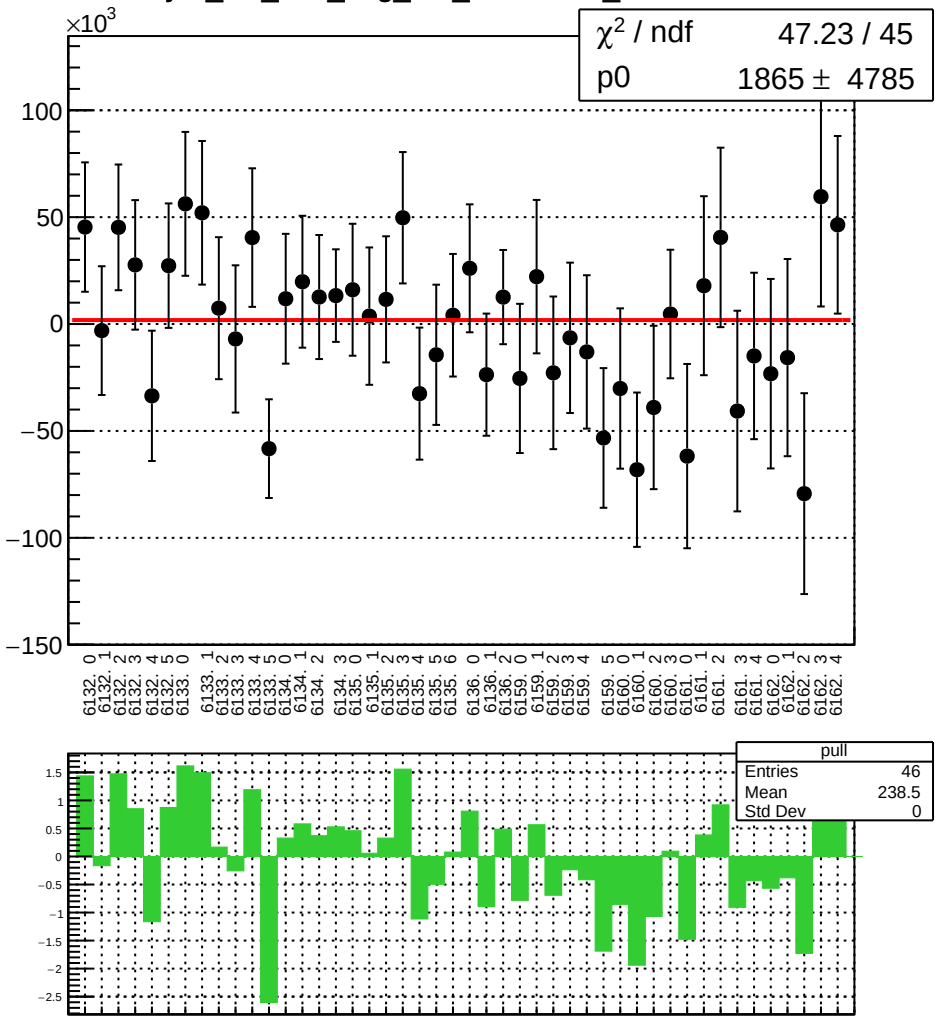

pull1D
Entries 46
Mean −0.02178
Std Dev 1.013

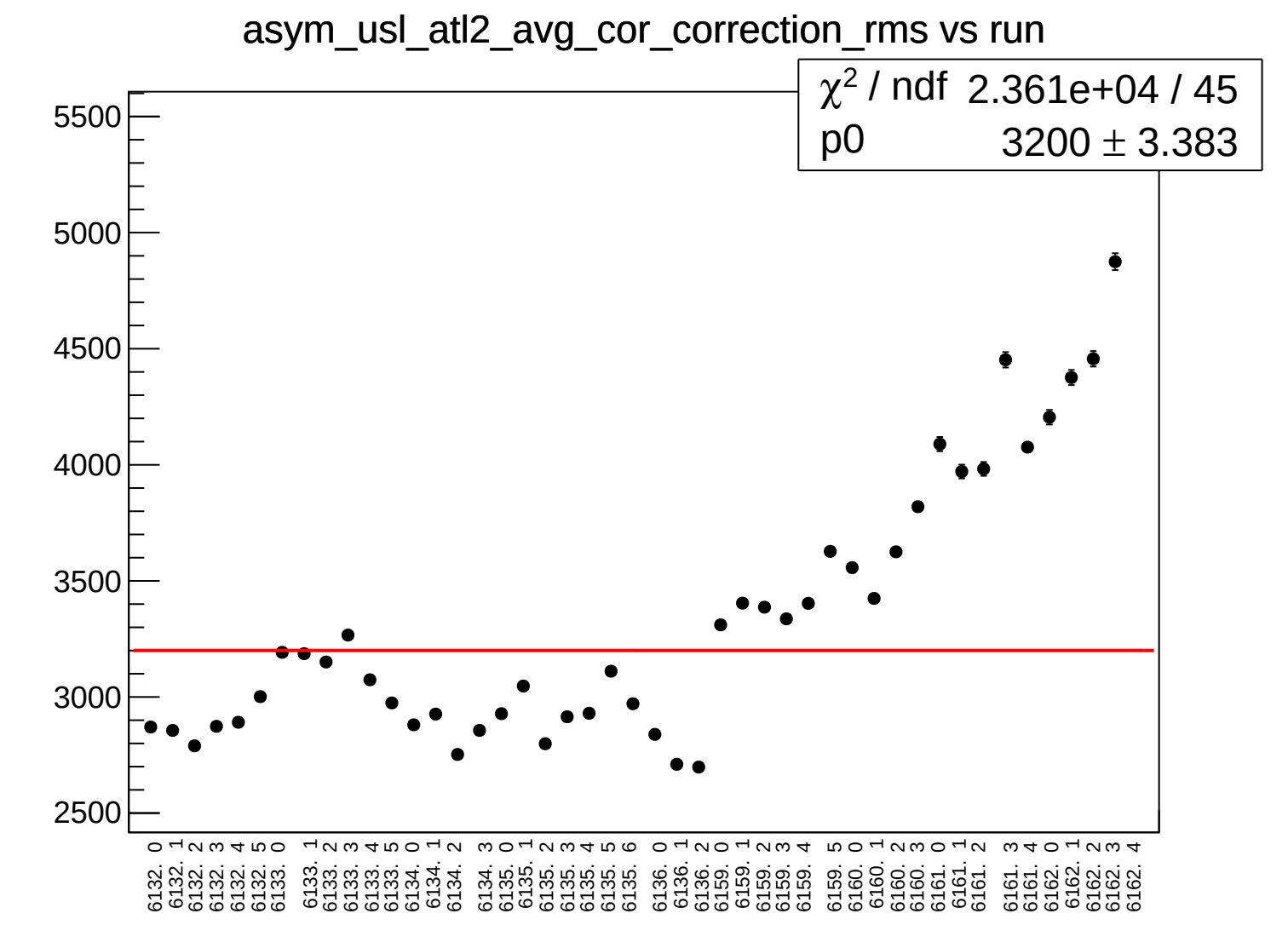

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 2.361e+04 / 45
p0 3200 ± 3.383
5500
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 32.56 / 45
p0 −4781 ± 1985
pull
Entries 46
Mean −578.7
Std Dev 0


pull1D
Entries 46
Mean 0.004479
Std Dev 0.8413


cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 80.47 / 45
p0 1345 ± 1.403
1390
1380
1370
1360
1350
1340
1330
1320
1310
1300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 47.23 / 45
p0 1865 ± 4785
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 238.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.02178
Std Dev 1.013
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 2.361e+04 / 45
p0 3200 ± 3.383
5500
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
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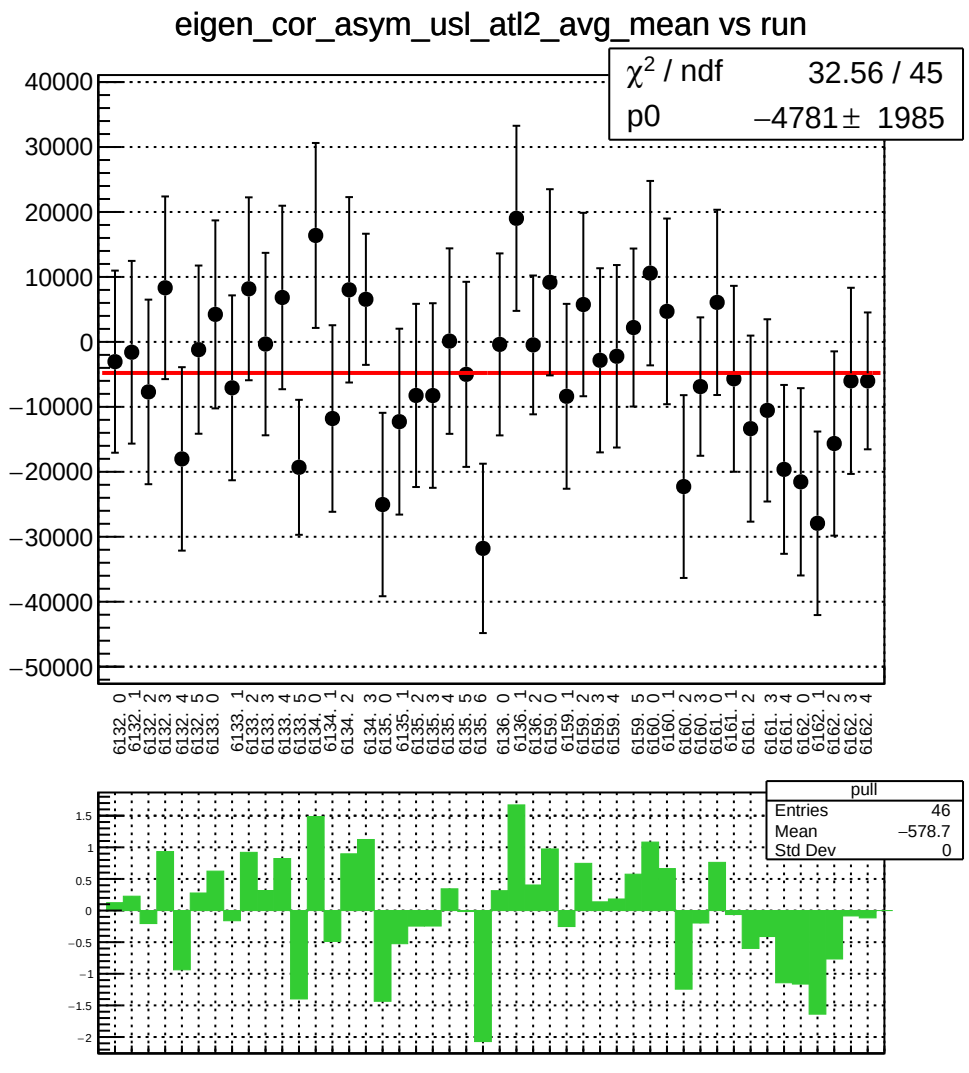
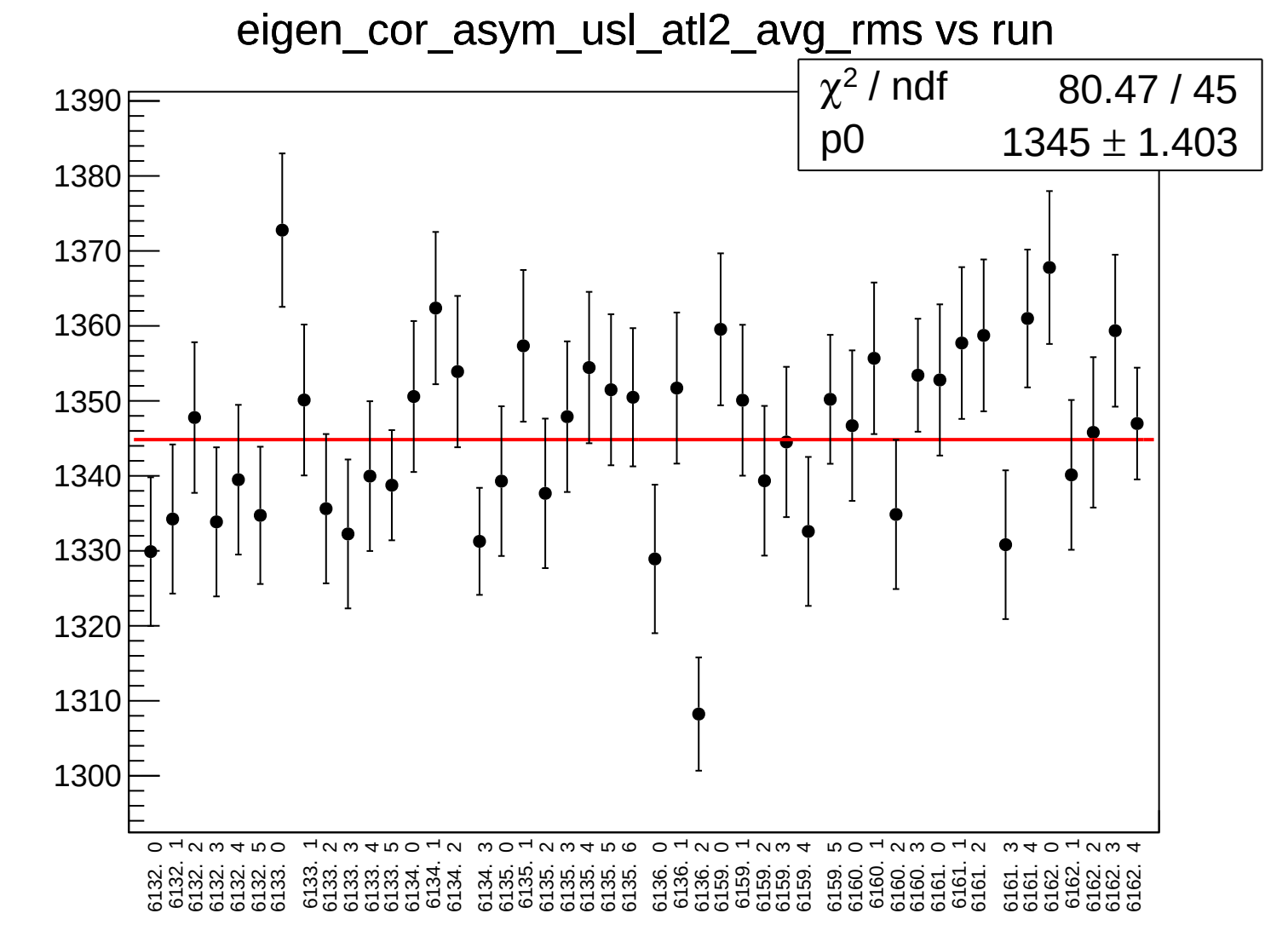
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 32.56 / 45
p0 −4781 ± 1985
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −578.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.004479
Std Dev 0.8413
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 80.47 / 45
p0 1345 ± 1.403
1390
1380
1370
1360
1350
1340
1330
1320
1310
1300
6132. 0
6132. 1
6132. 2
6132. 3
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6133. 0
6133. 1
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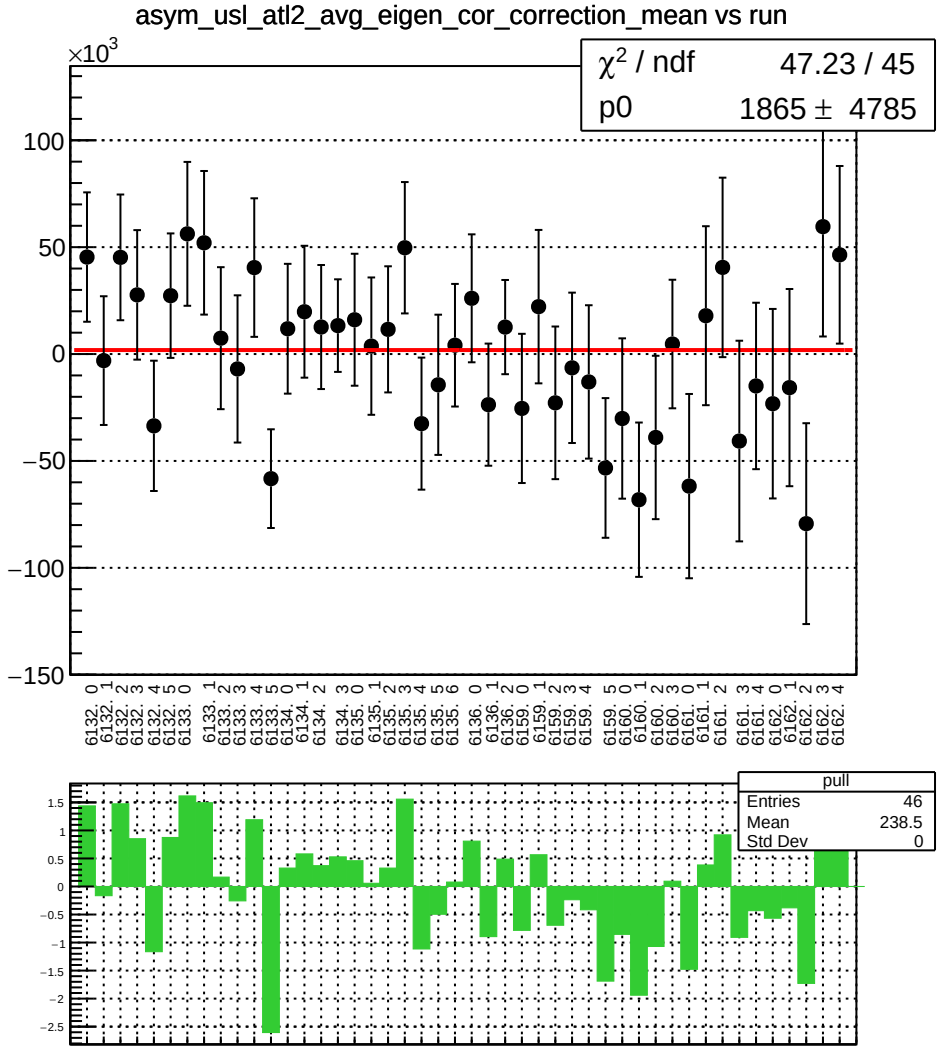
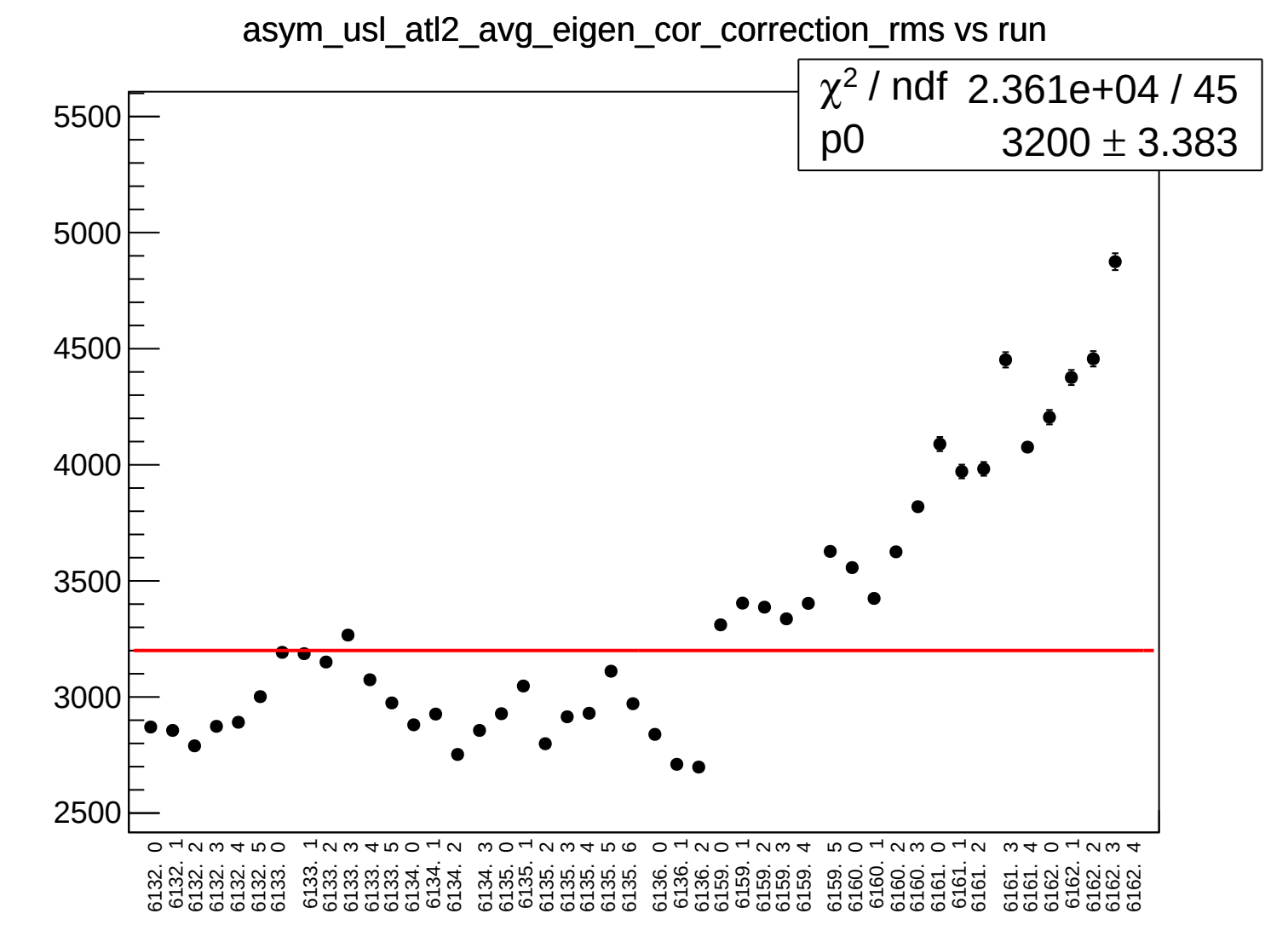
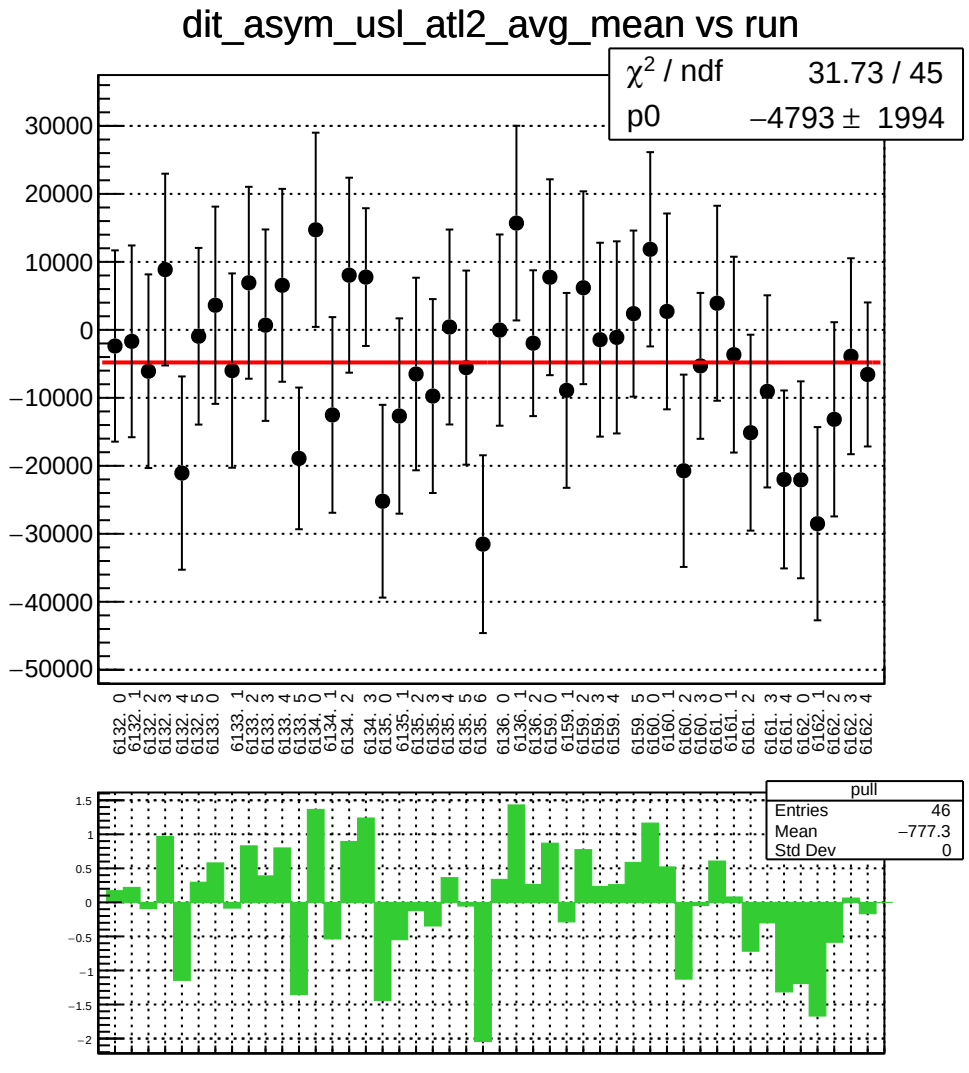
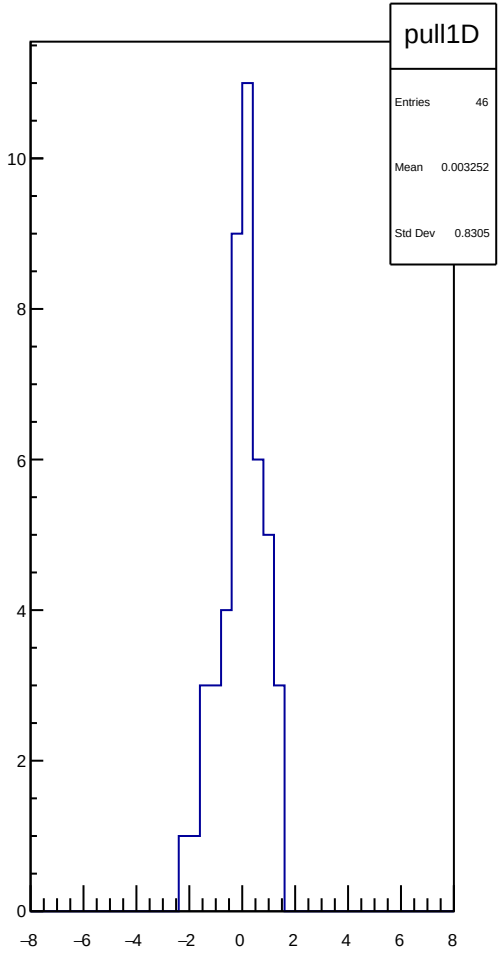
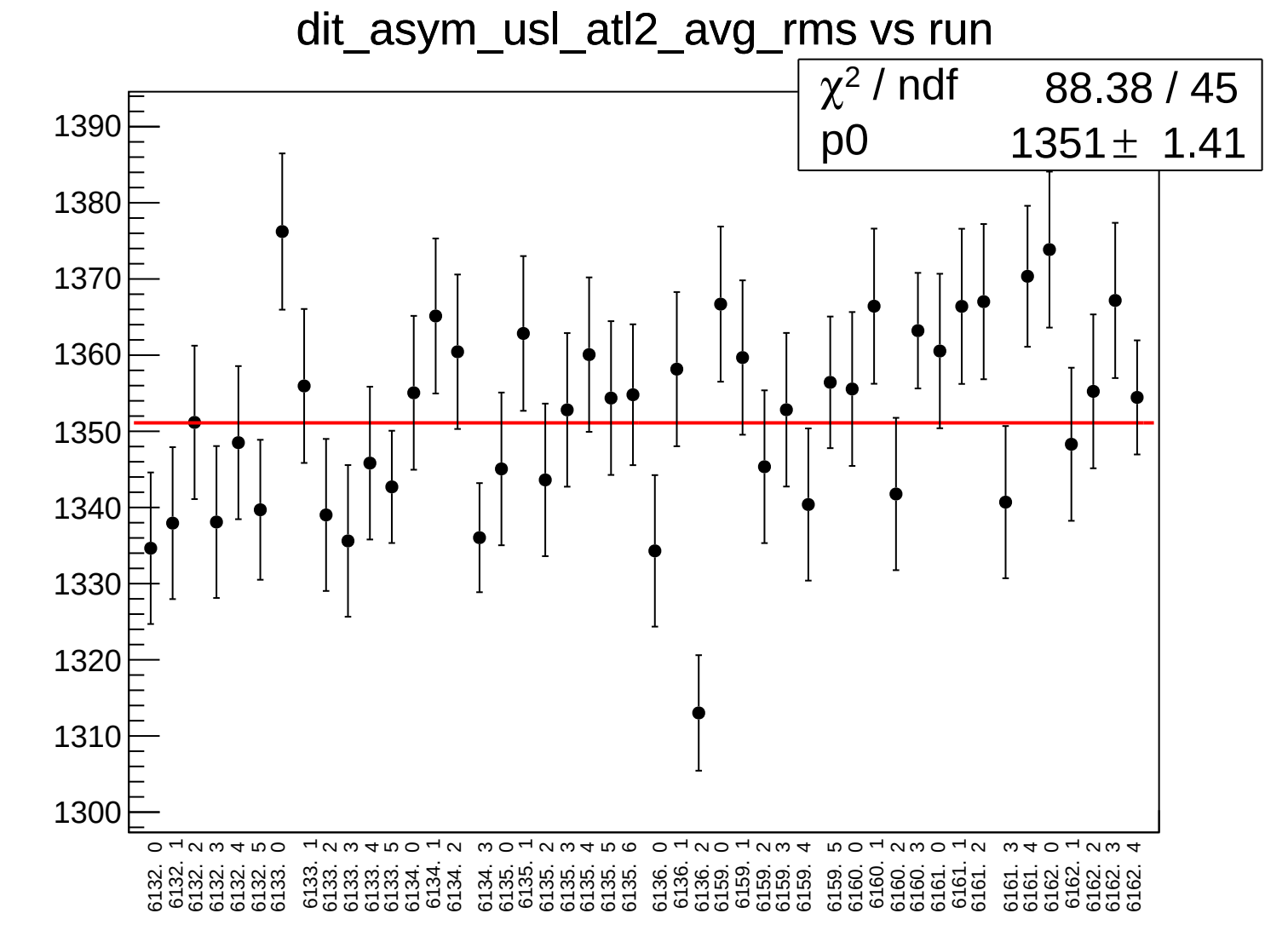
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

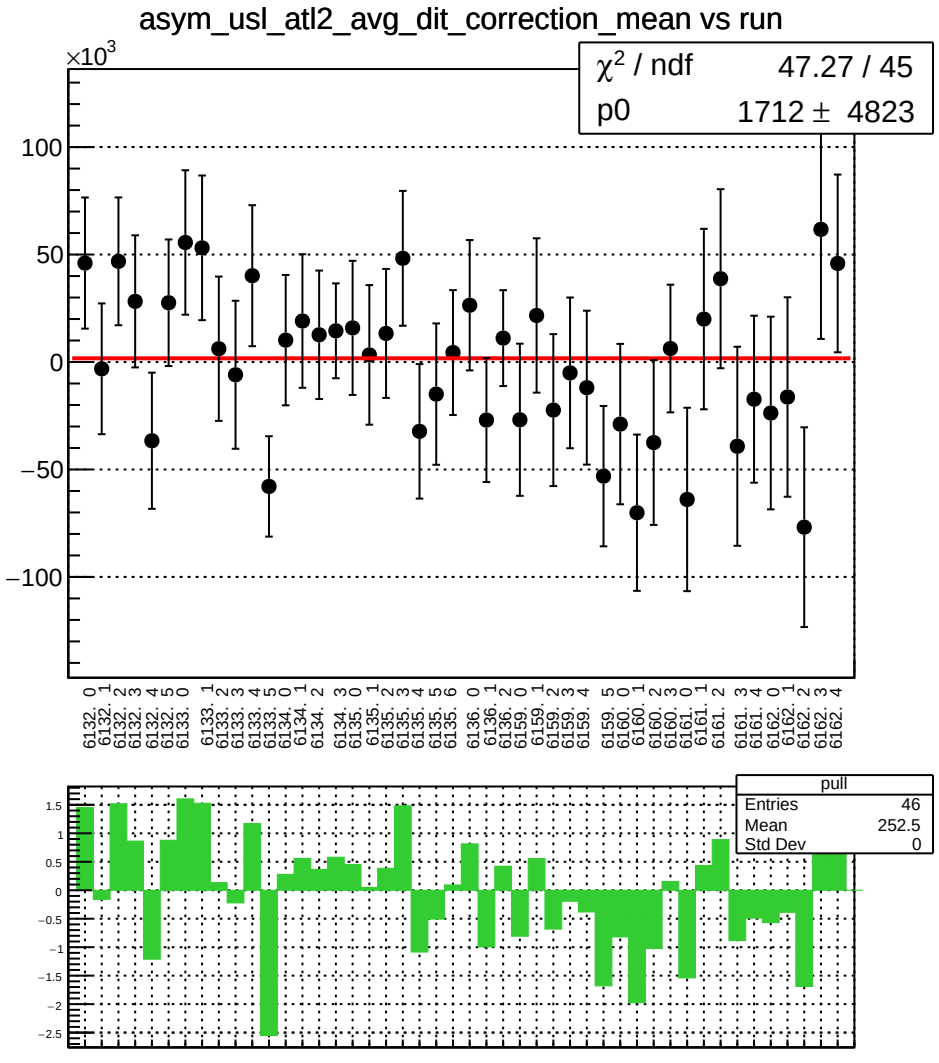

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 47.23 / 45
p0 1865 ± 4785
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 238.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.02178
Std Dev 1.013
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

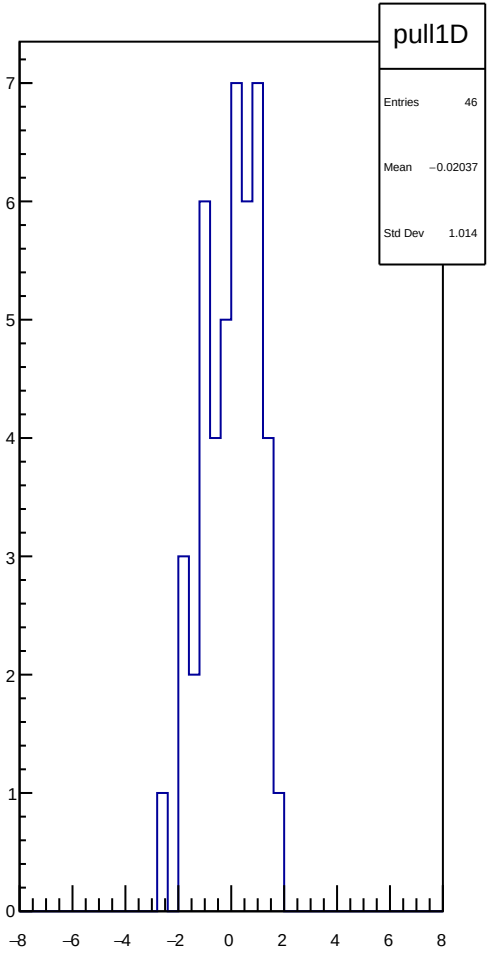

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.361e+04 / 45
p0 3200 ± 3.383
5500
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


dit_asym_usl_atl2_avg_mean vs run
χ^2 / ndf 31.73 / 45
p0 −4793 ± 1994
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −777.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.003252
Std Dev 0.8305
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 88.38 / 45
p0 1351 ± 1.41
1390
1380
1370
1360
1350
1340
1330
1320
1310
1300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 47.27 / 45
p0 1712 ± 4823
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 252.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.02037
Std Dev 1.014
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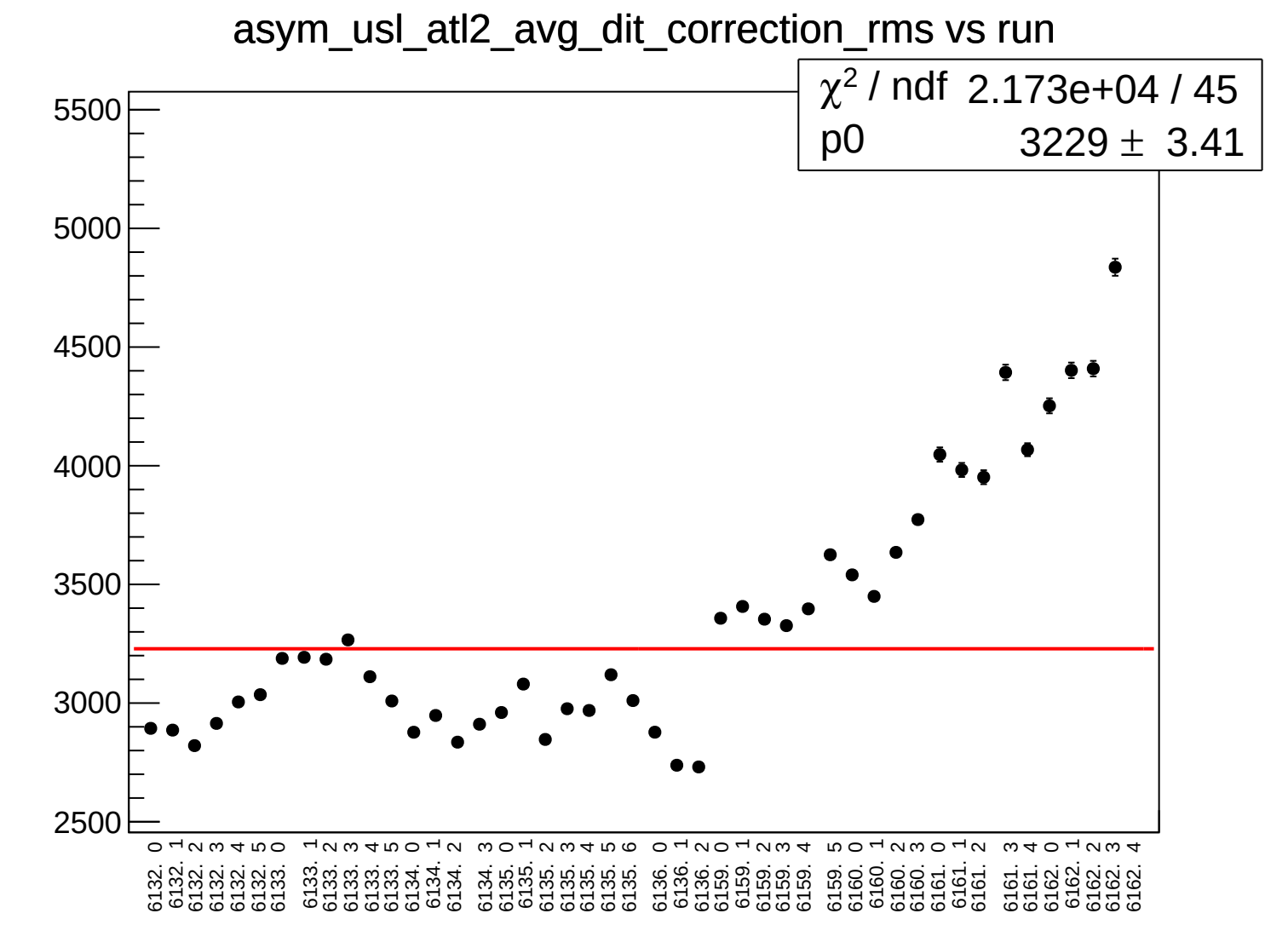
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 2.173e+04 / 45
p0 3229 ± 3.41
5500
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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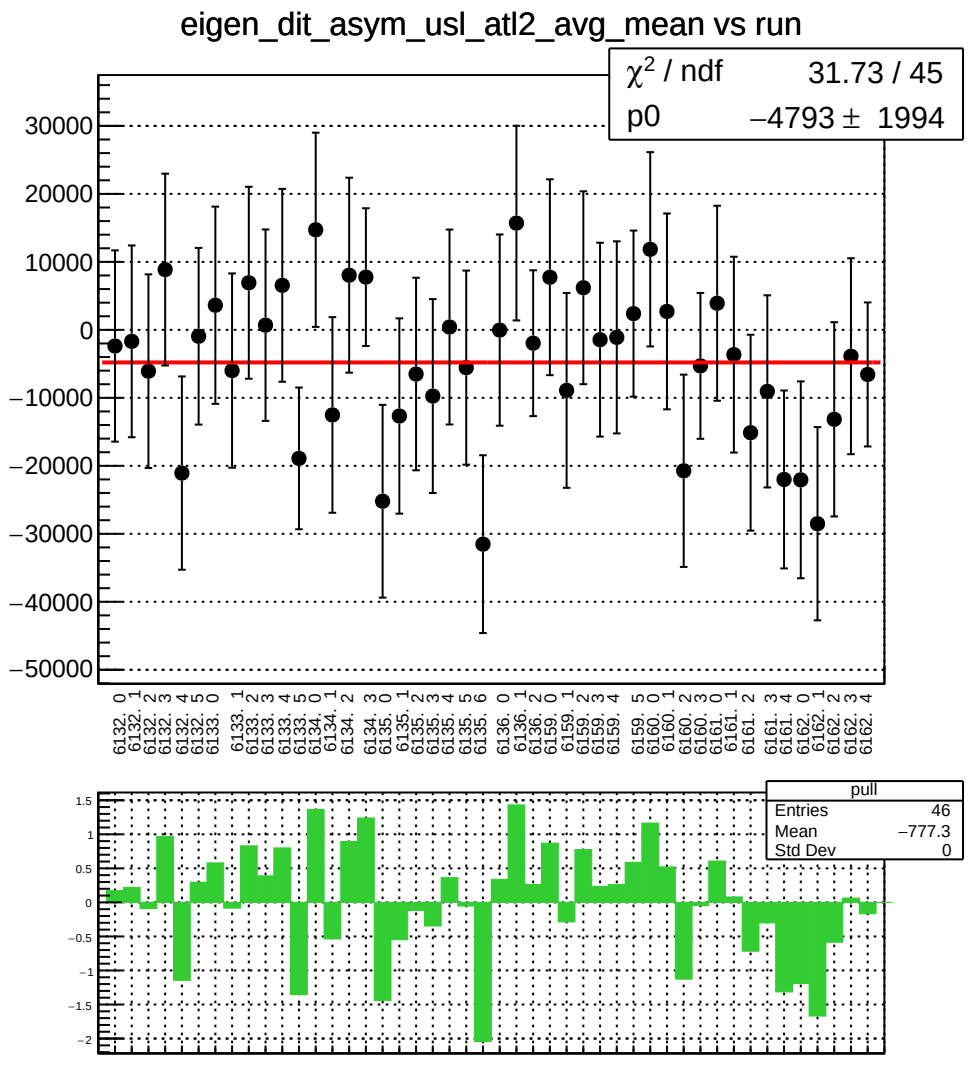
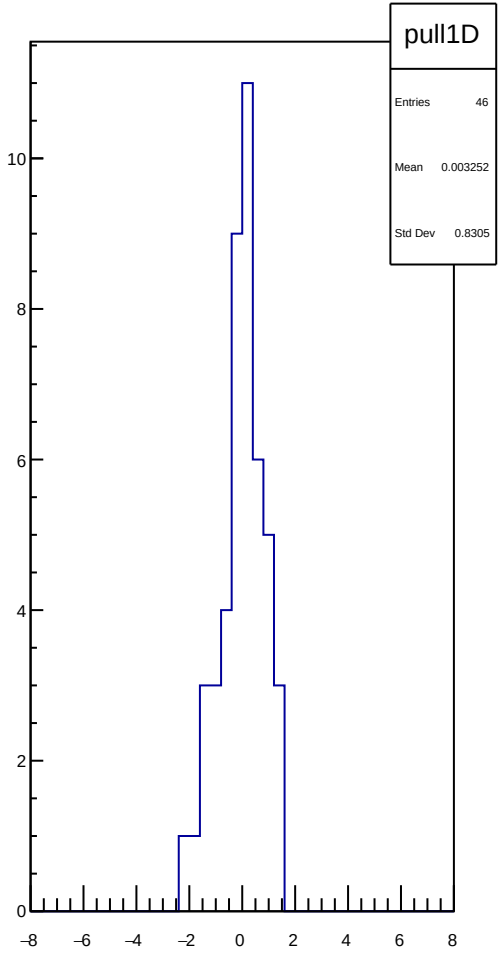
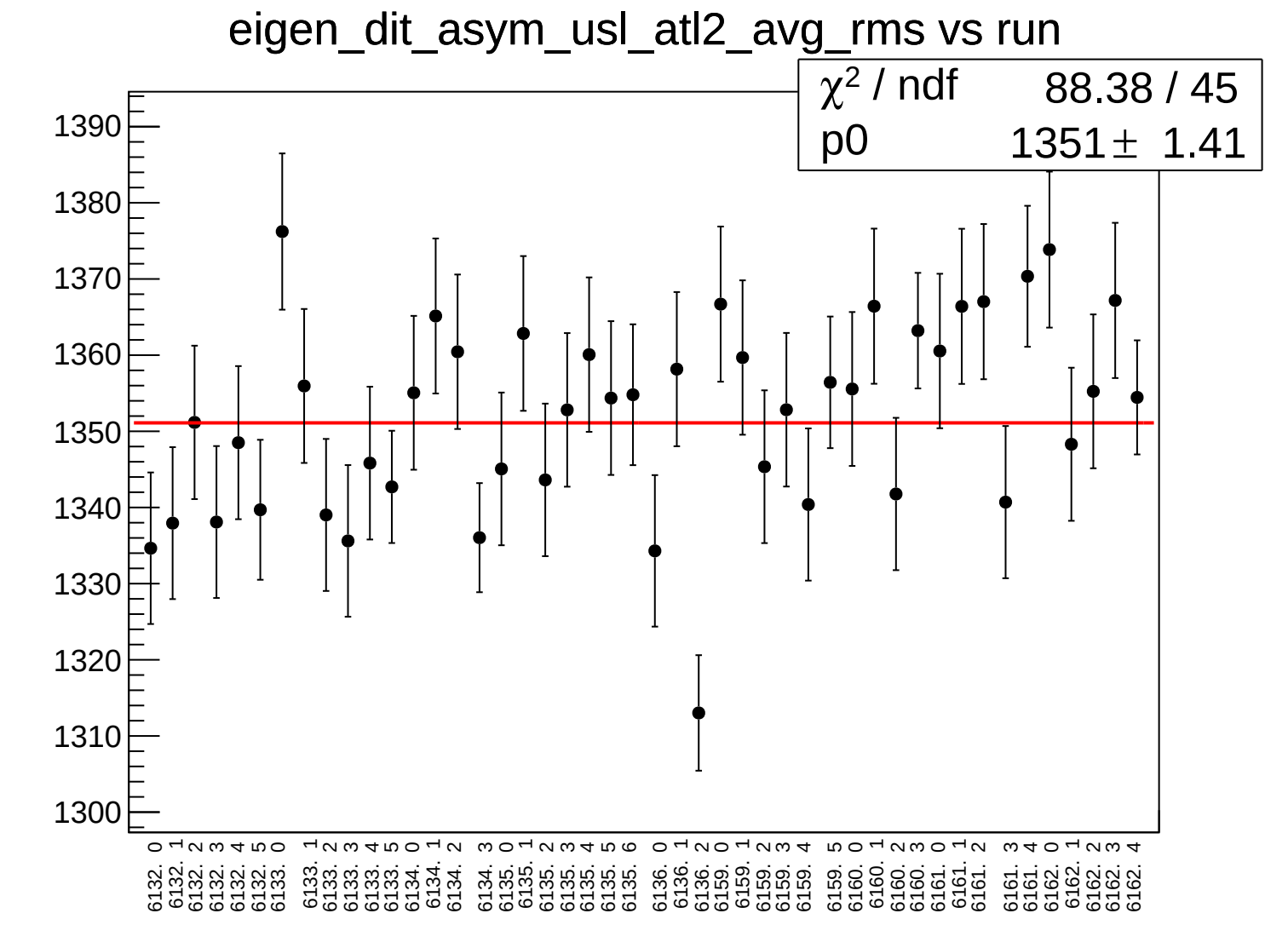
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_dit_asym_usl_atl2_avg_mean vs run
χ^2 / ndf 31.73 / 45
p0 −4793 ± 1994
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −777.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.003252
Std Dev 0.8305
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 88.38 / 45
p0 1351 ± 1.41
1390
1380
1370
1360
1350
1340
1330
1320
1310
1300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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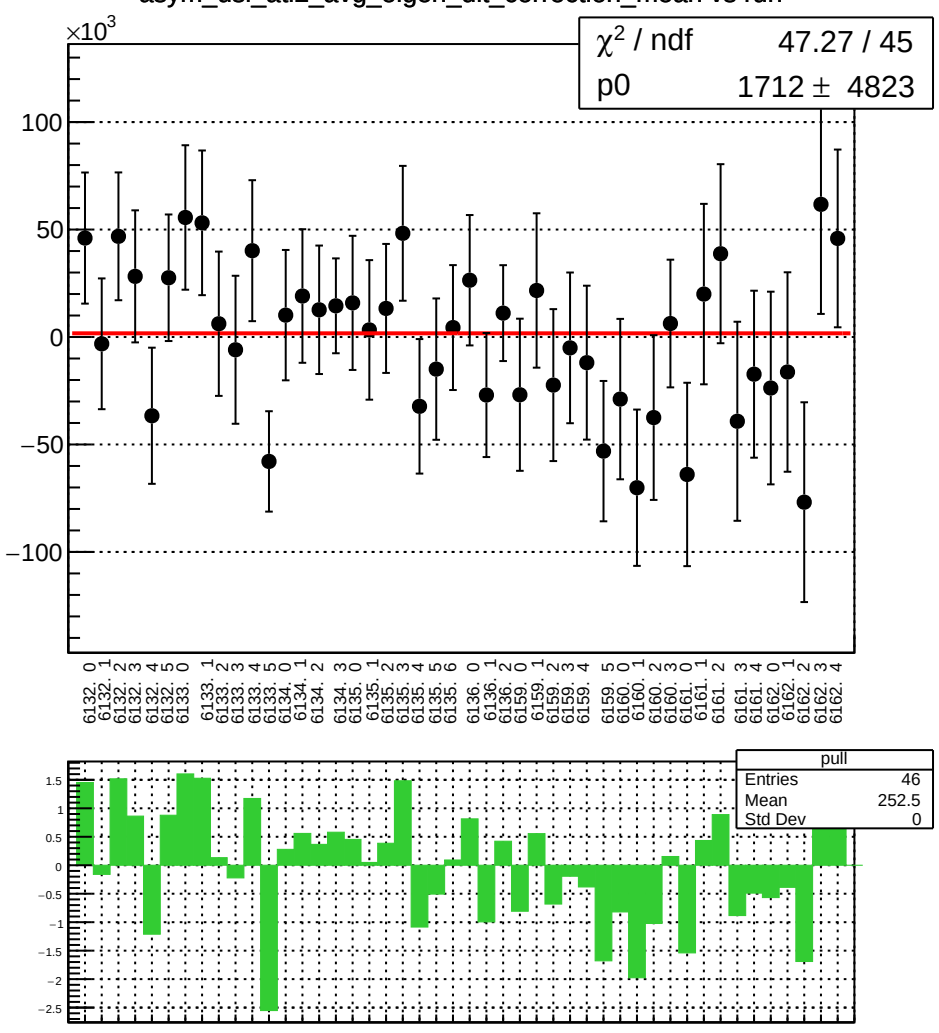
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 47.27 / 45
p0 1712 ± 4823
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 2
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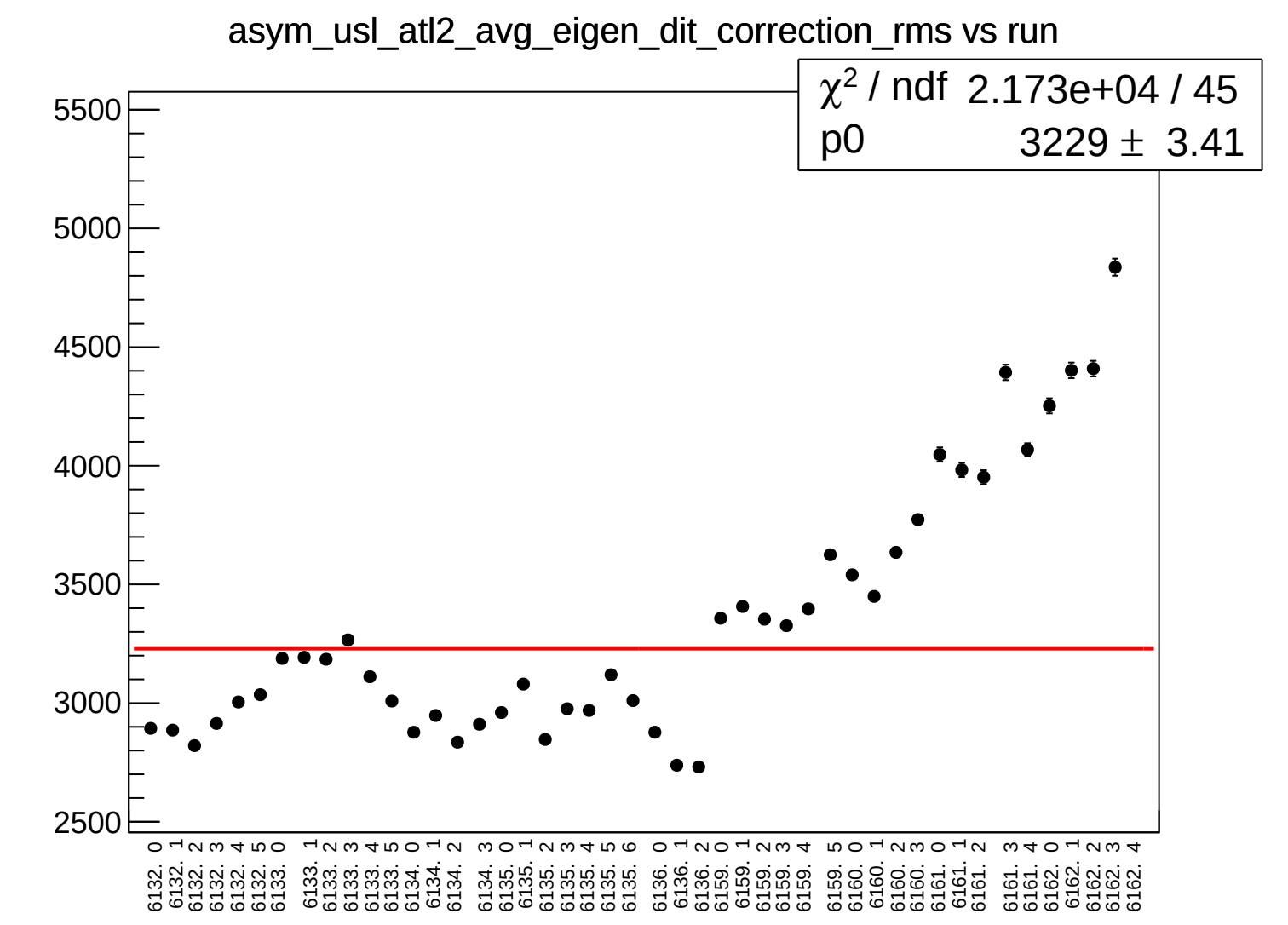
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 252.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.02037
Std Dev 1.014
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.173e+04 / 45
p0 3229 ± 3.41
5500
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
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6135. 0
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
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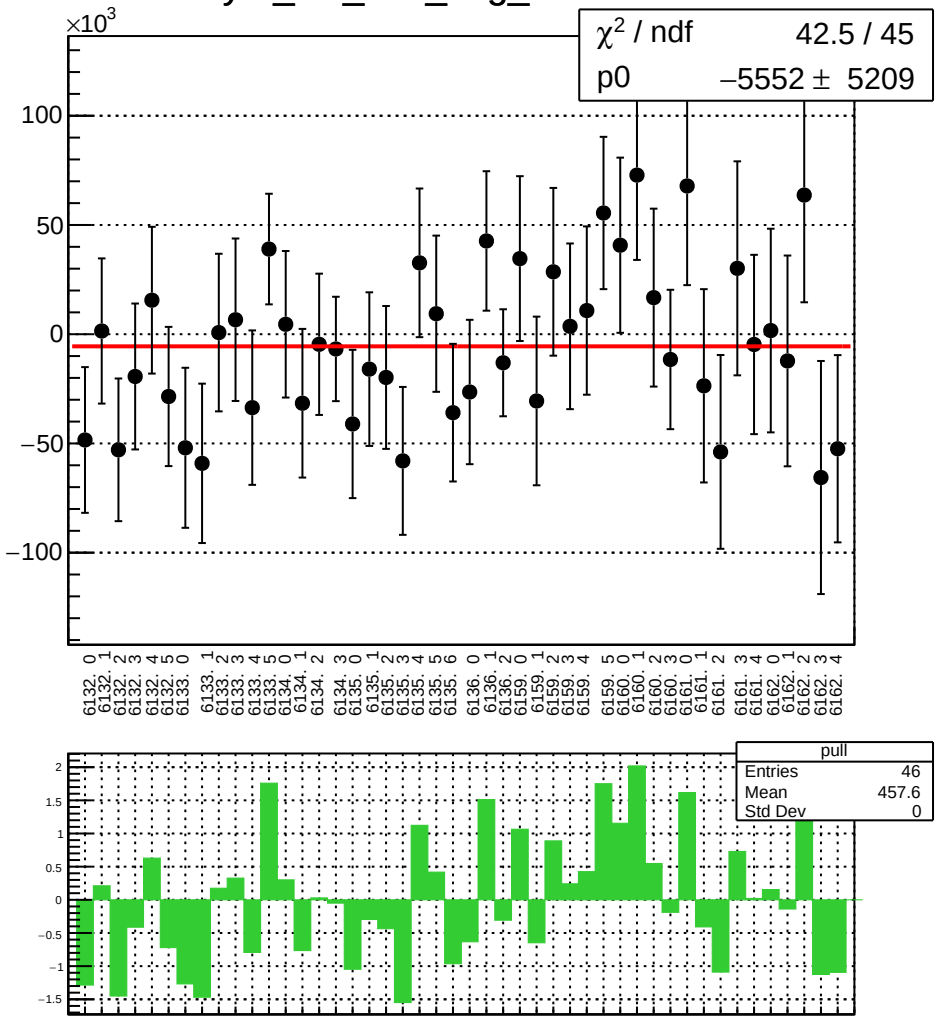
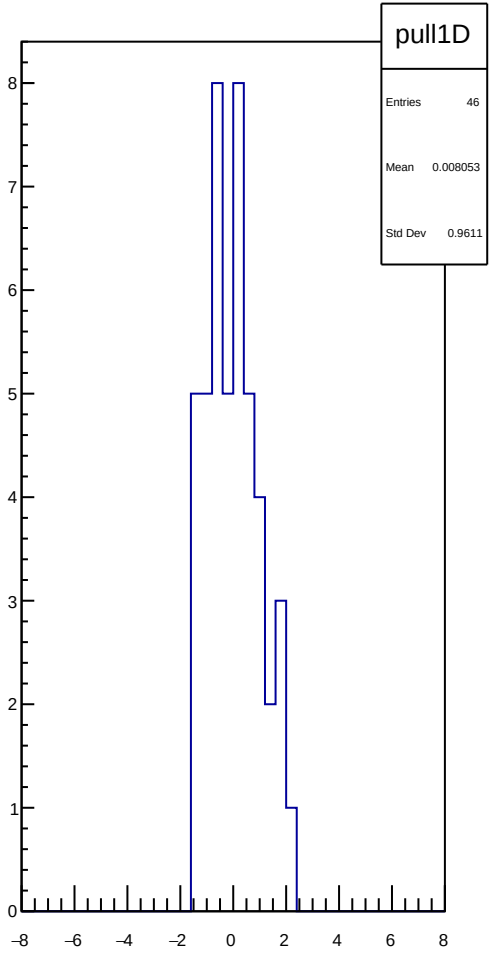
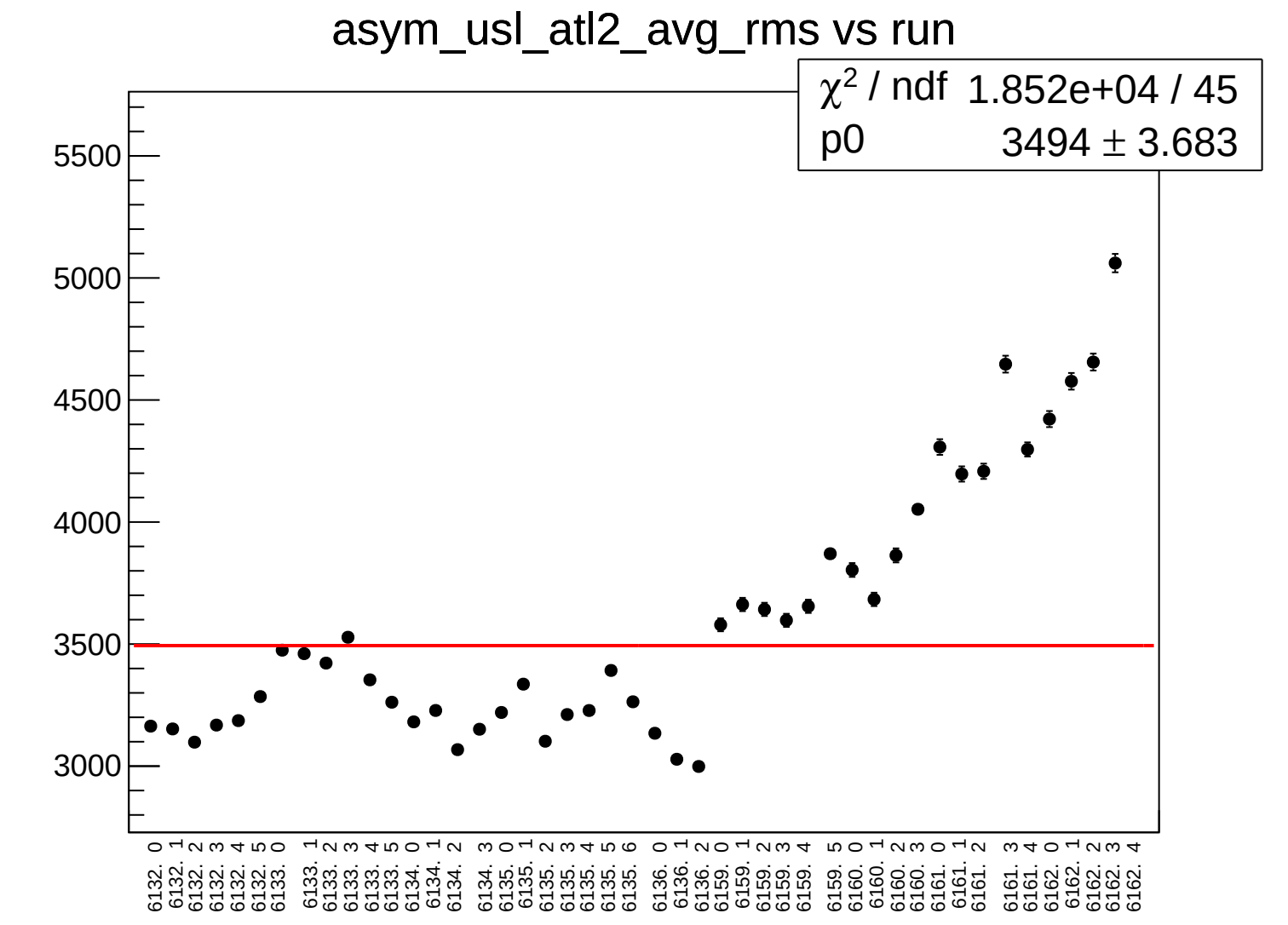
6162. 3
6162. 4


asym_usl_atl2_avg_mean vs run
χ² / ndf 42.5 / 45
p0 −5552 ± 5209
×10³
100
50
0
−50
−100
pull
Entries 46
Mean 457.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 46
Mean 0.008053
Std Dev 0.9611
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_avg_rms vs run
χ² / ndf 1.852e+04 / 45
p0 3494 ± 3.683
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
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6135. 0
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6135. 3
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6135. 6
6136. 0
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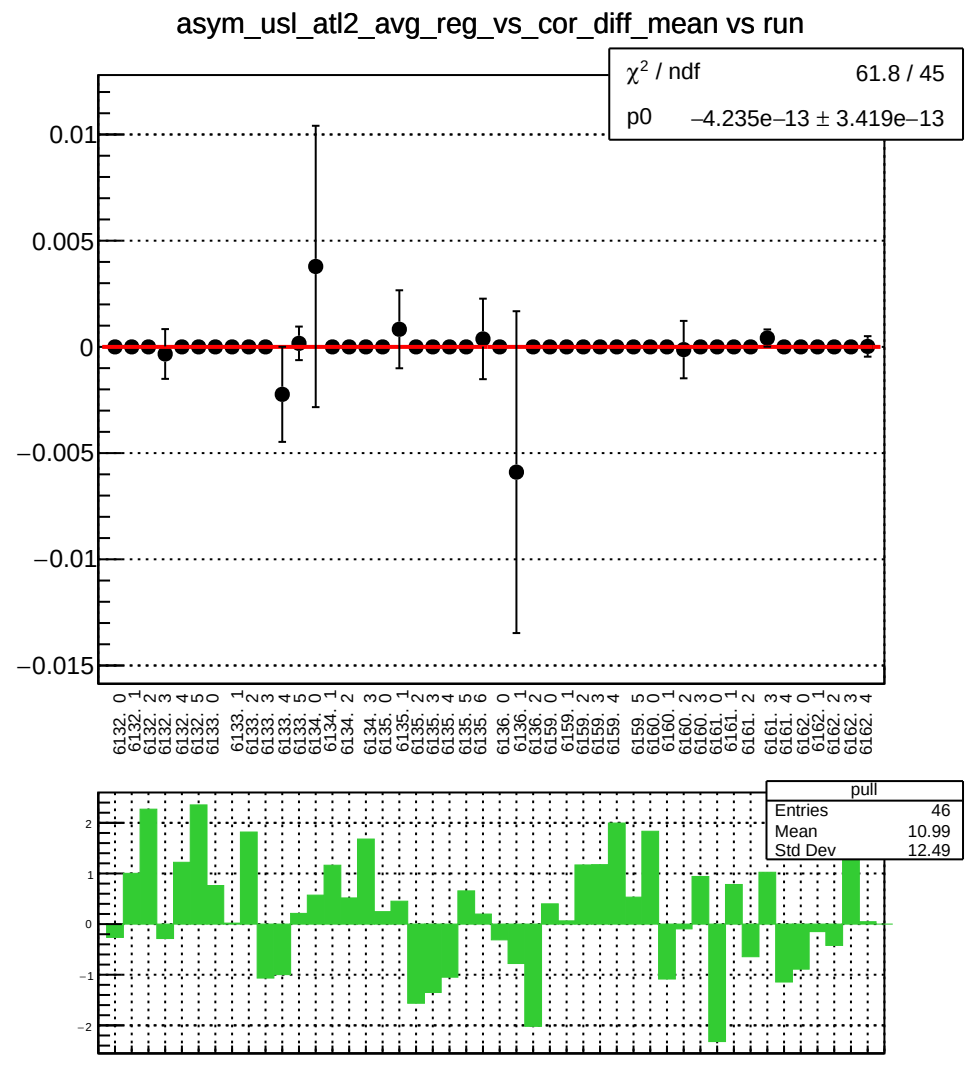
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 61.8 / 45
p0 −4.235e−13 ± 3.419e−13
0.01
0.005
0
−0.005
−0.01
−0.015
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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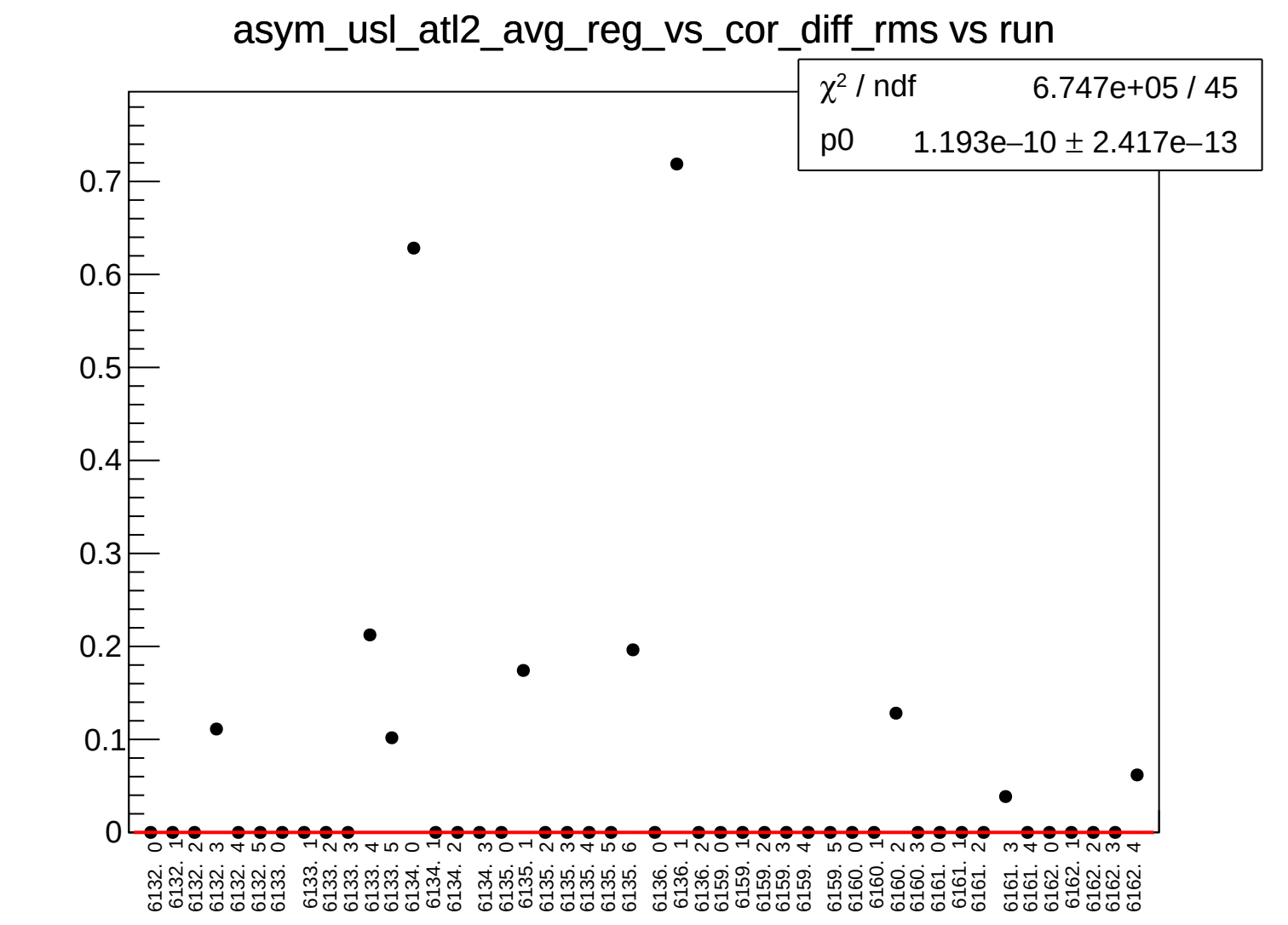
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 10.99
Std Dev 12.49
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.2341
Std Dev 1.135
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.747e+05 / 45
p0 1.193e−10 ± 2.417e−13
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 0
6135. 1
6135. 2
6135. 3
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6135. 6
6136. 0
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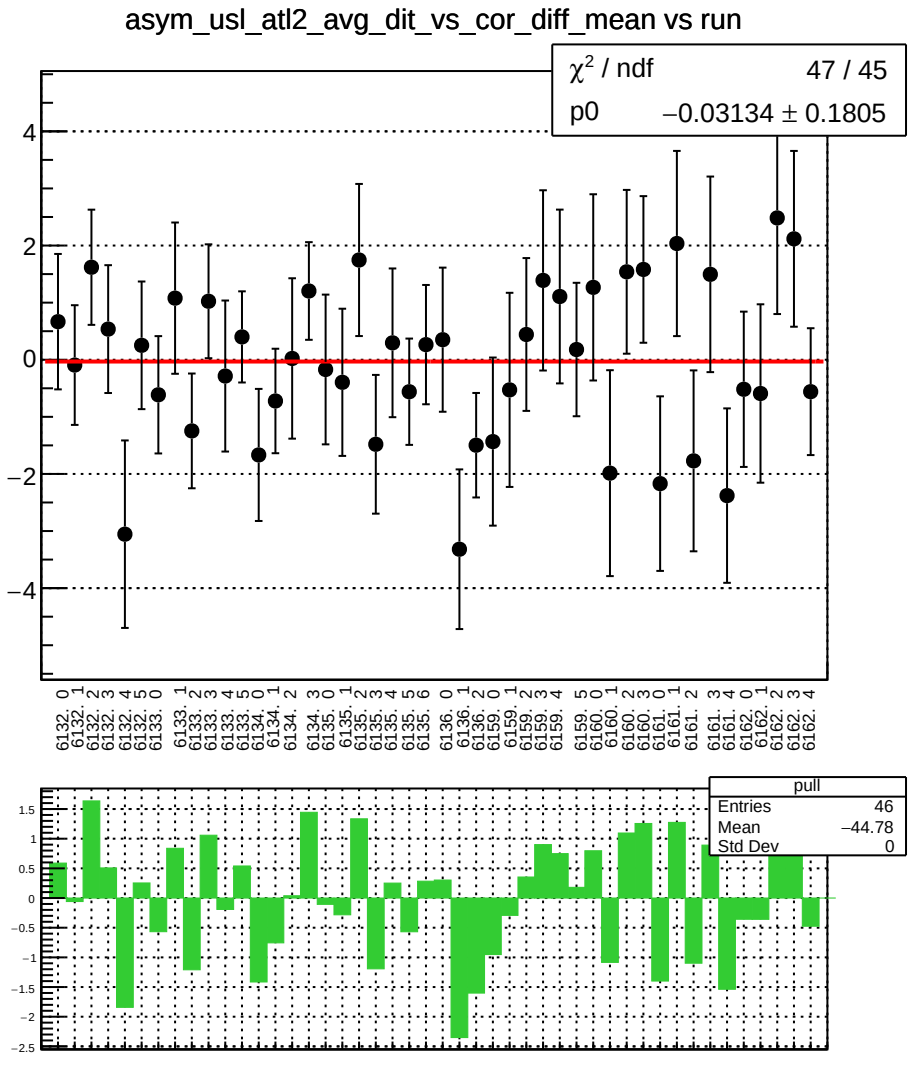
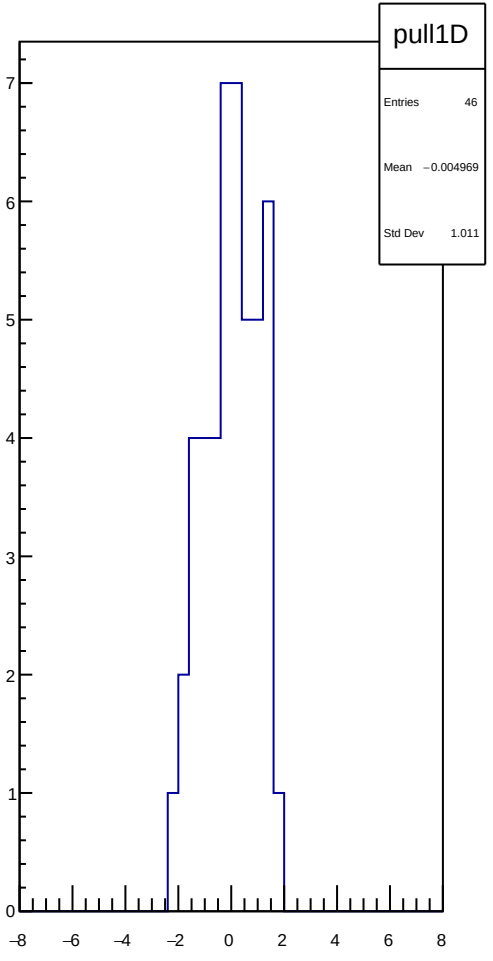
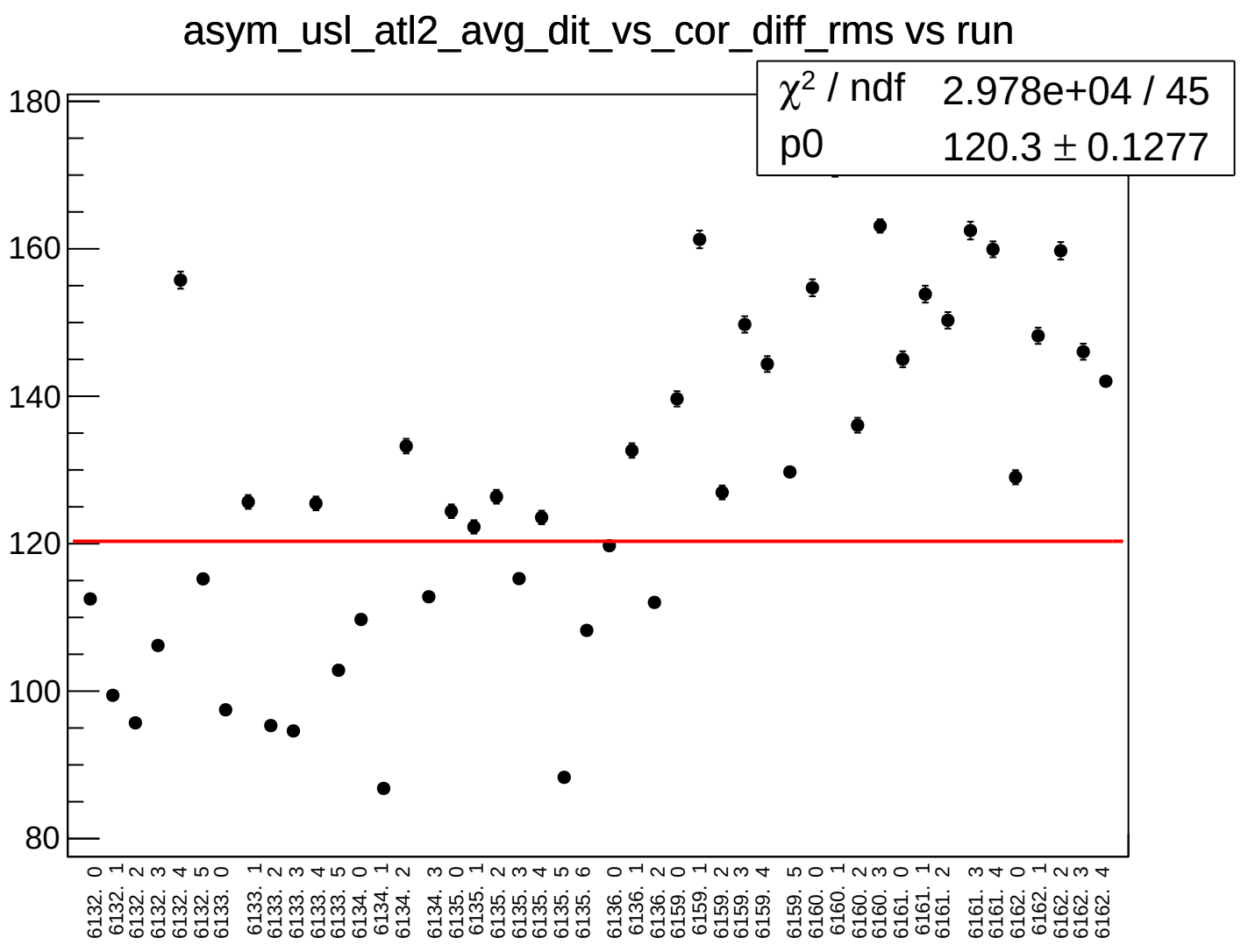
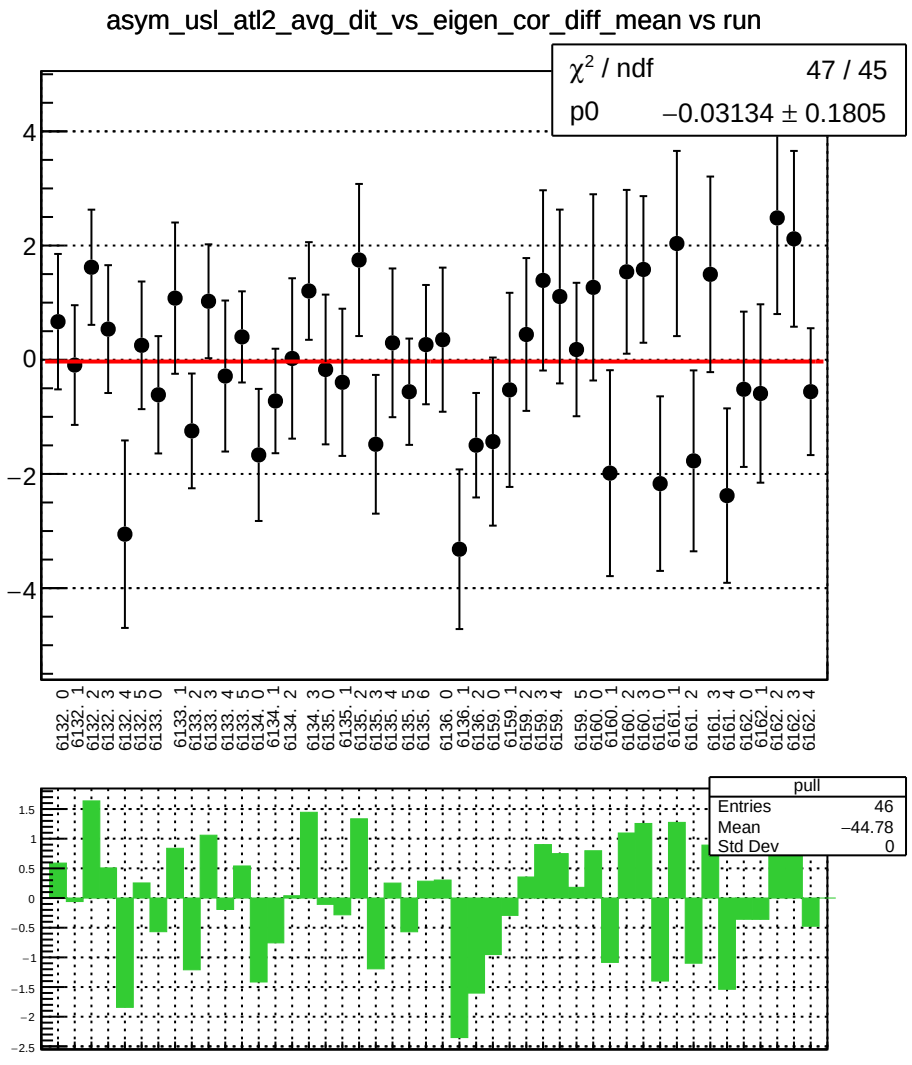
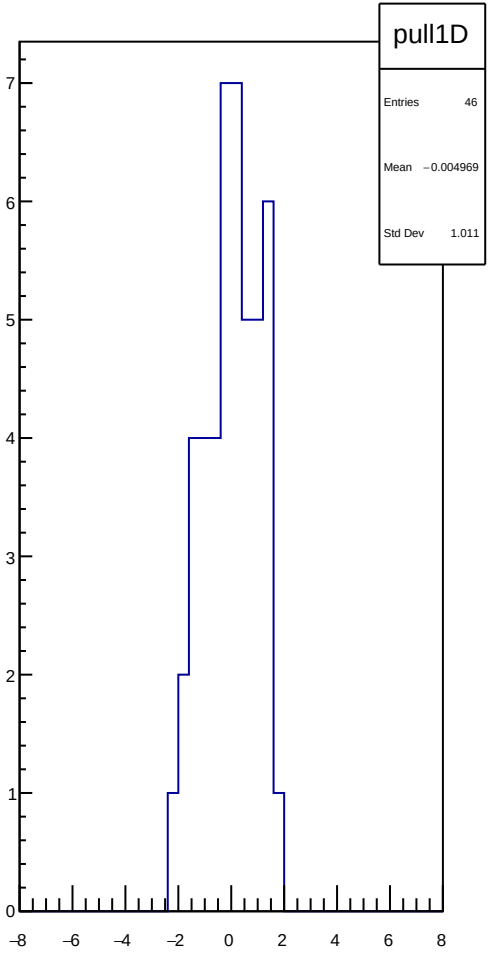
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

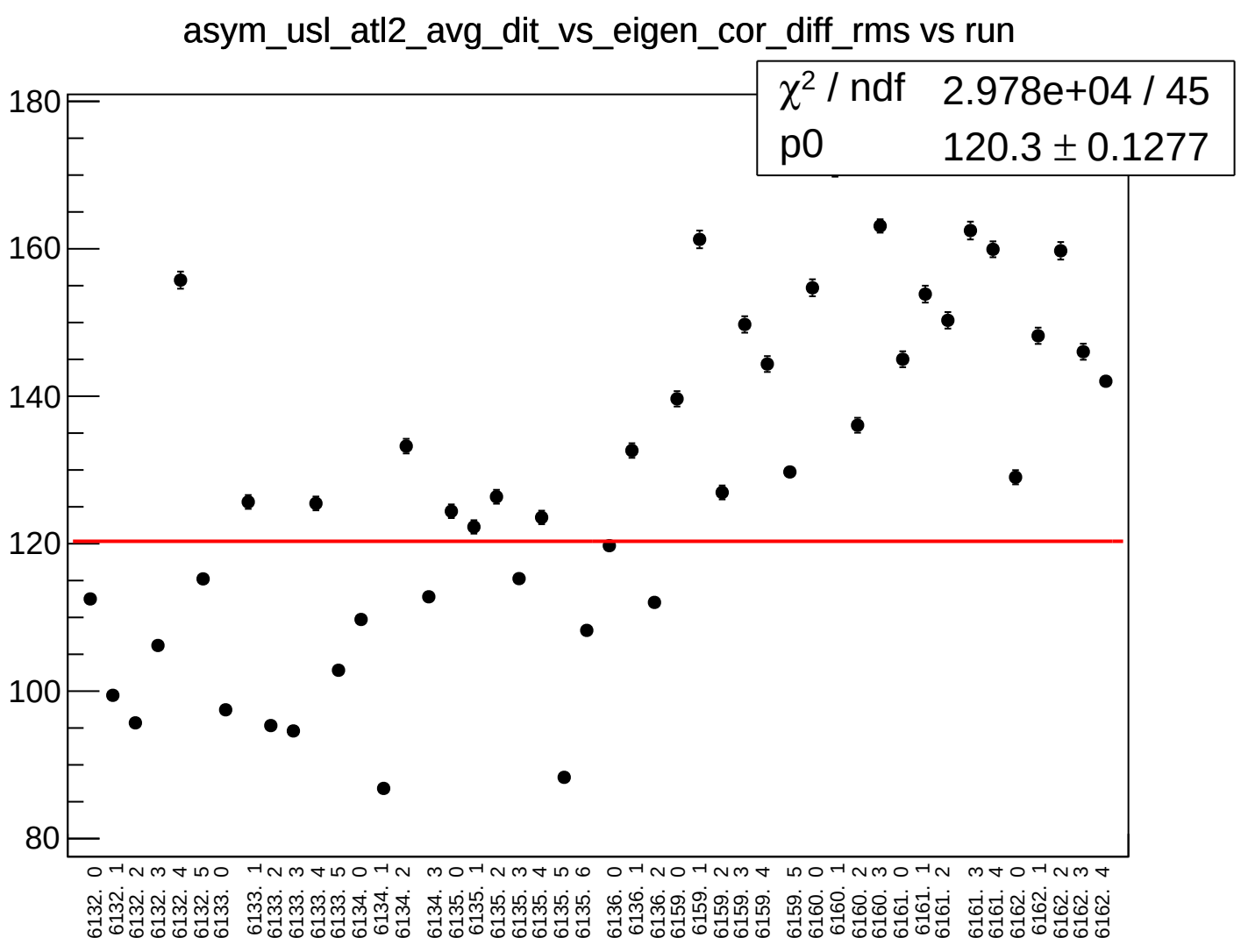

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 47 / 45
p0 −0.03134 ± 0.1805
pull
Entries 46
Mean −44.78
Std Dev 0

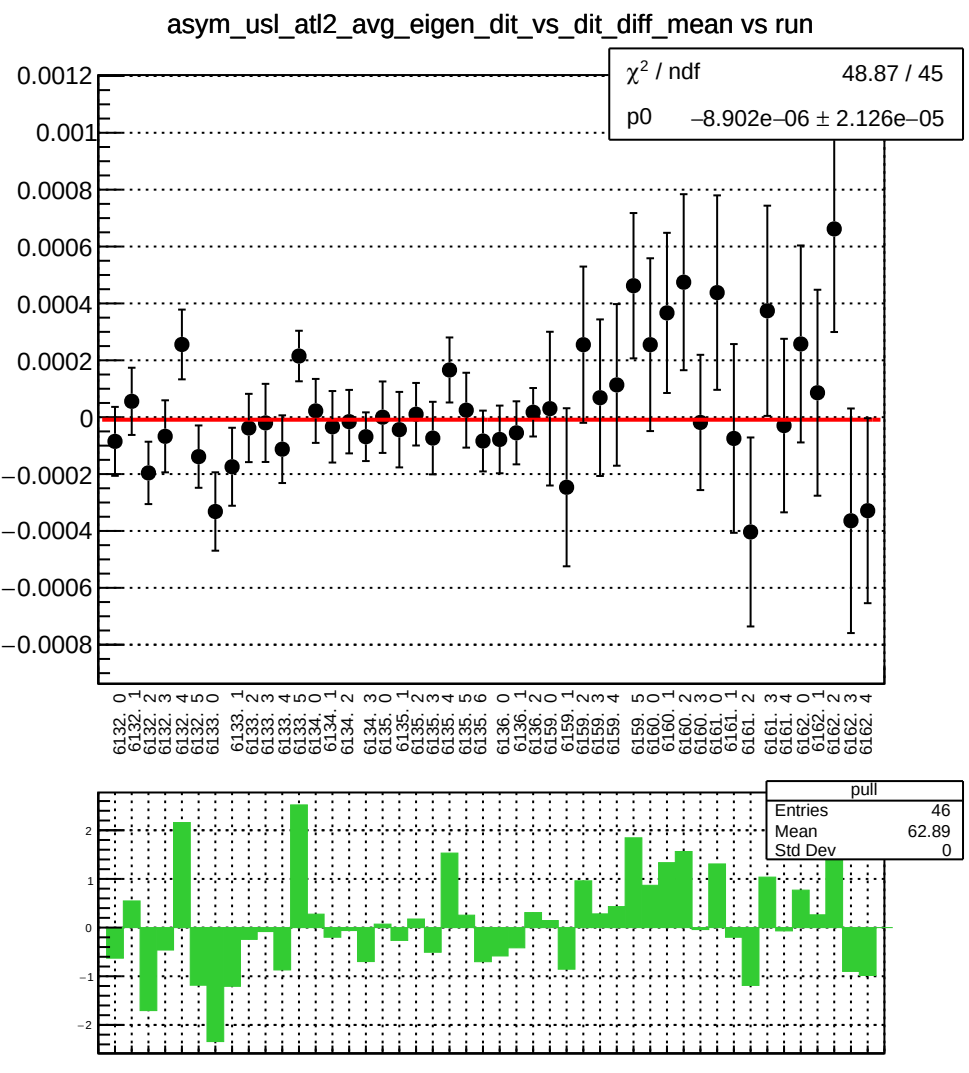

pull1D
Entries 46
Mean −0.004969
Std Dev 1.011

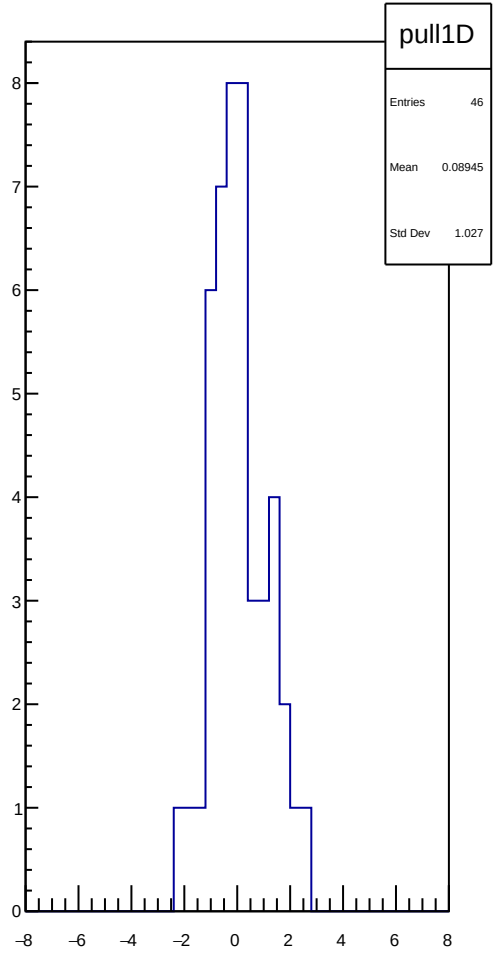

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.978e+04 / 45
p0 120.3 ± 0.1277
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

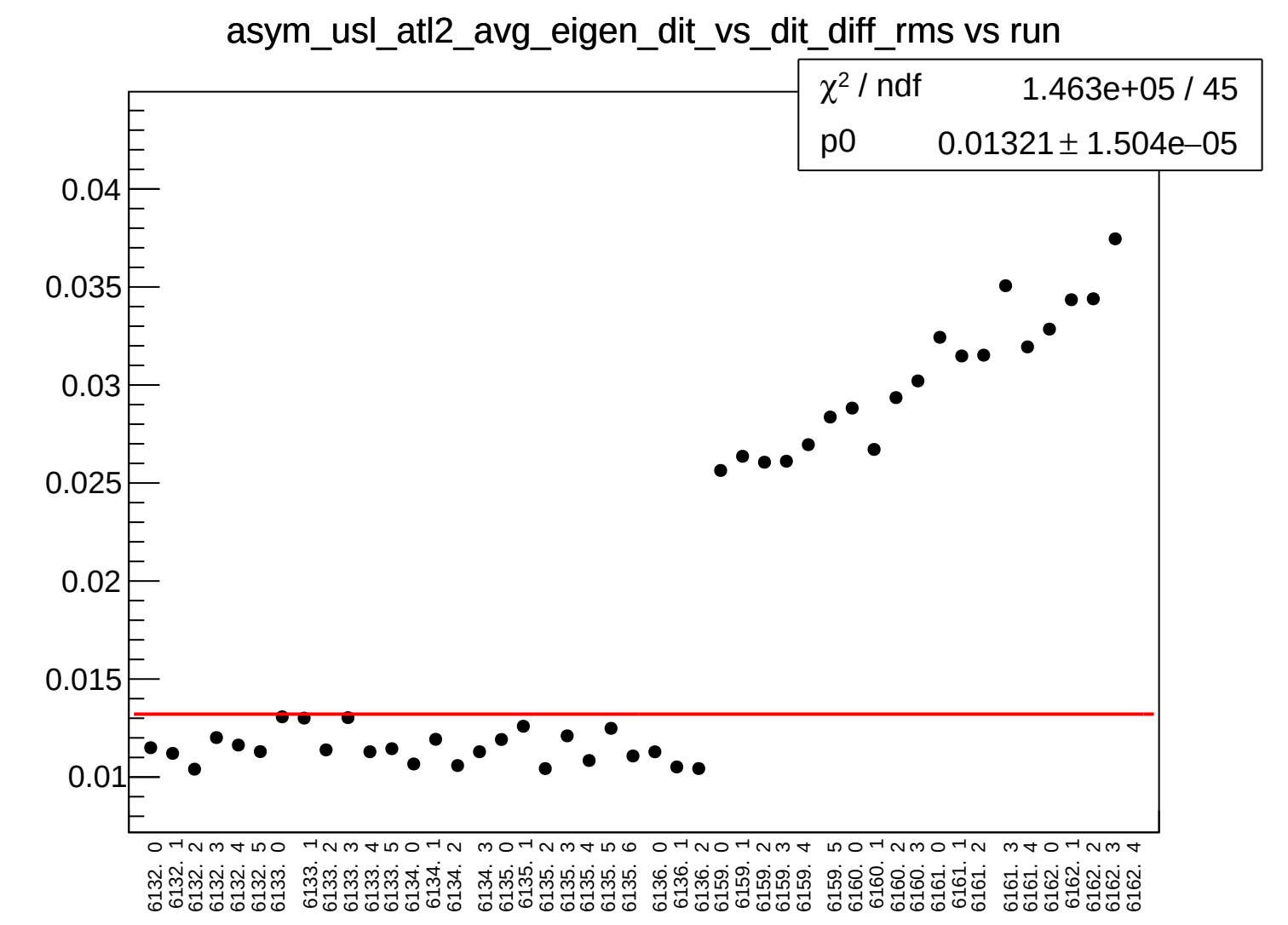

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47 / 45
p0 −0.03134 ± 0.1805
pull
Entries 46
Mean −44.78
Std Dev 0

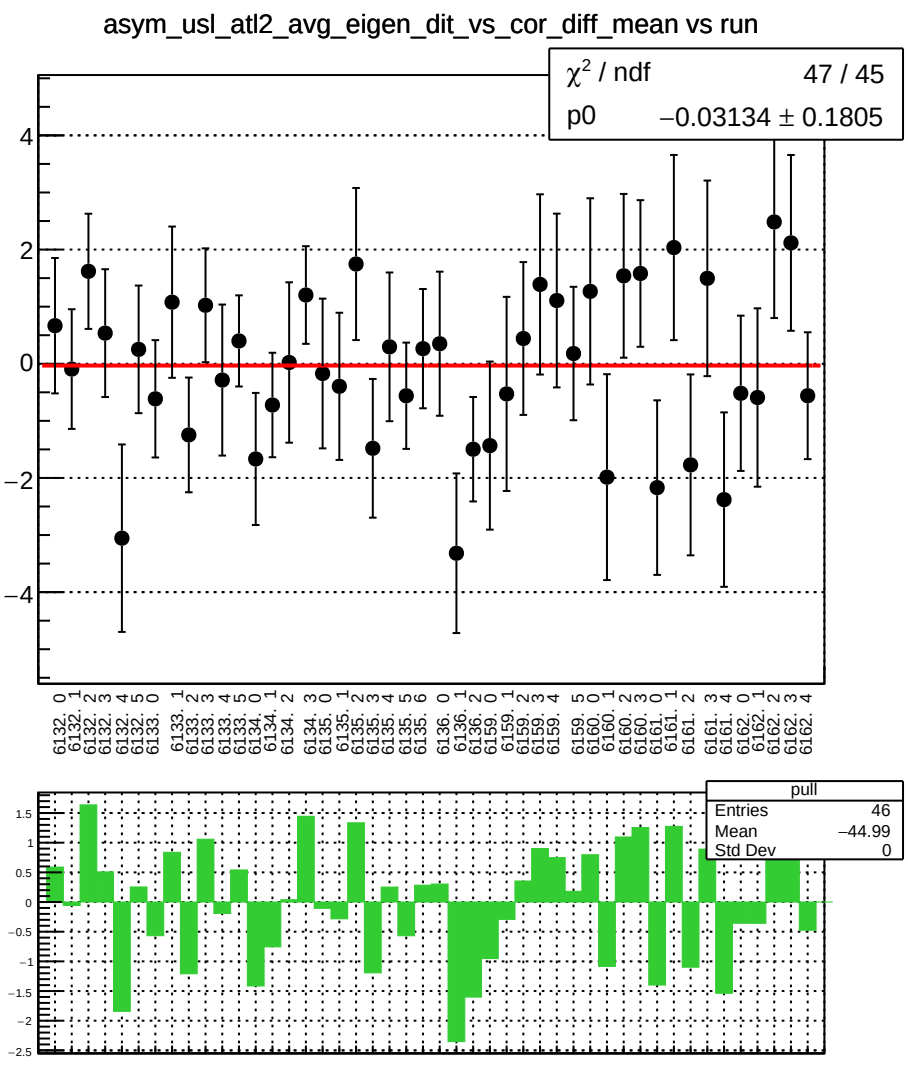

pull1D
Entries 46
Mean −0.004969
Std Dev 1.011

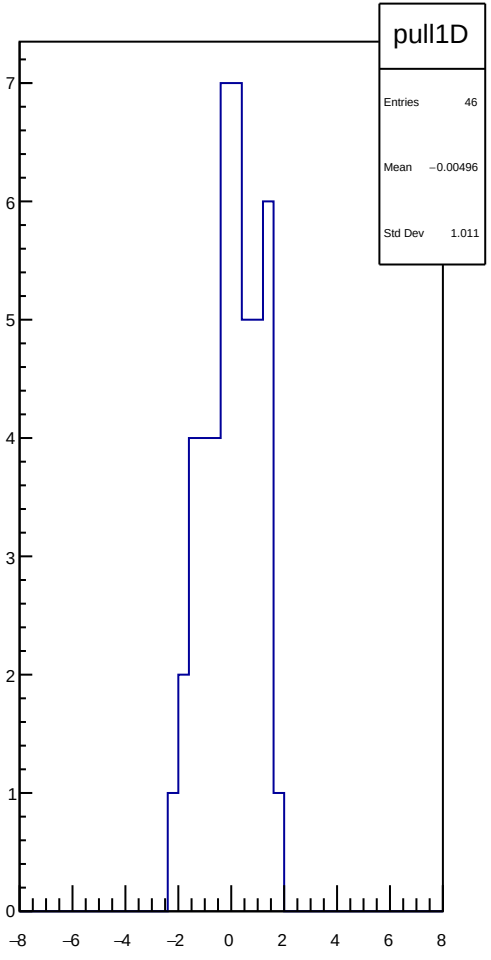

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.978e+04 / 45
p0 120.3 ± 0.1277
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

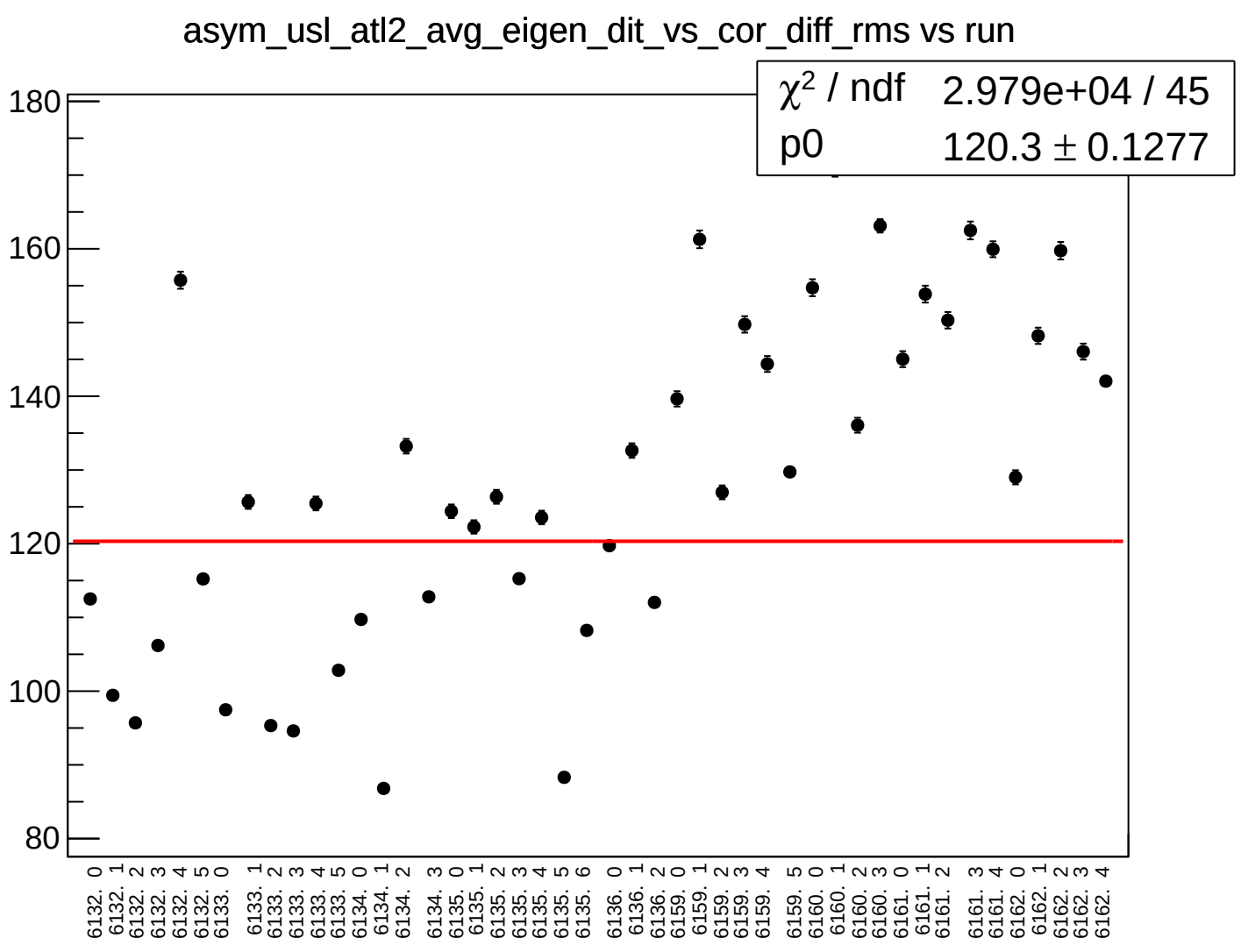

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 48.87 / 45
p0 −8.902e−06 ± 2.126e−05
pull
Entries 46
Mean 62.89
Std Dev 0

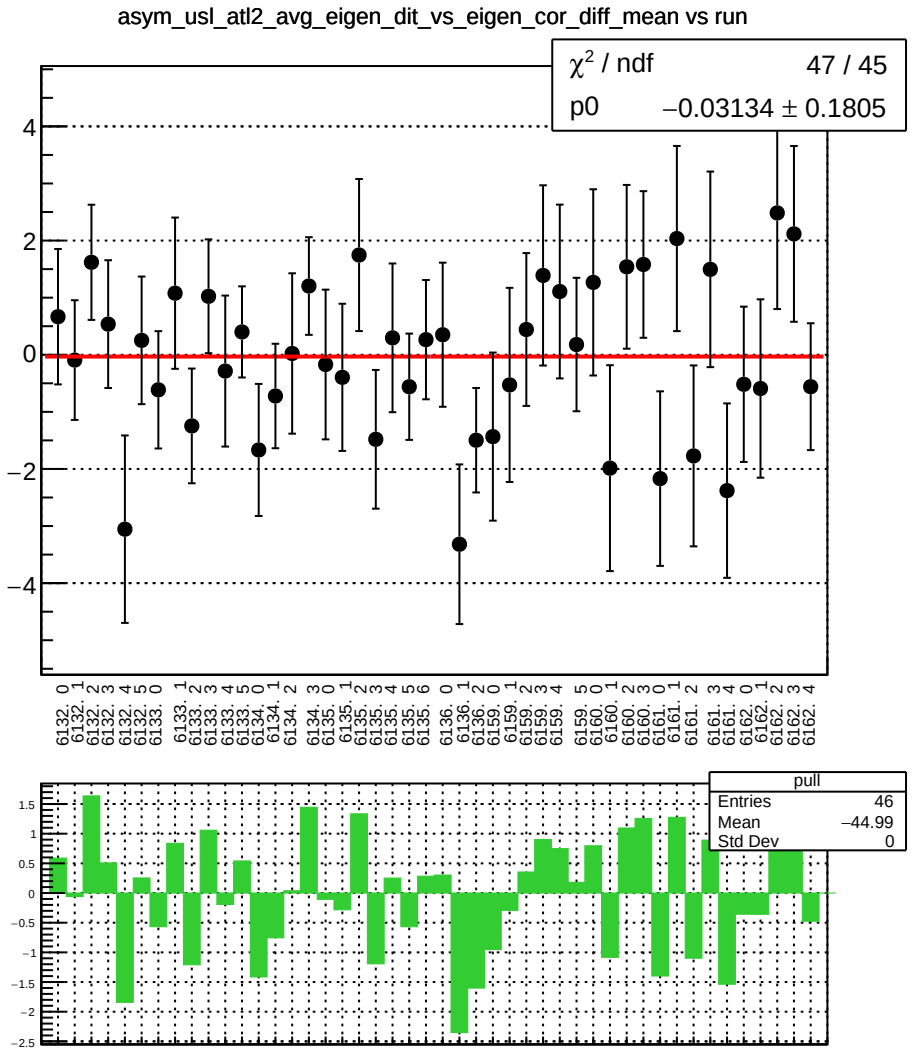

pull1D
Entries 46
Mean 0.08945
Std Dev 1.027

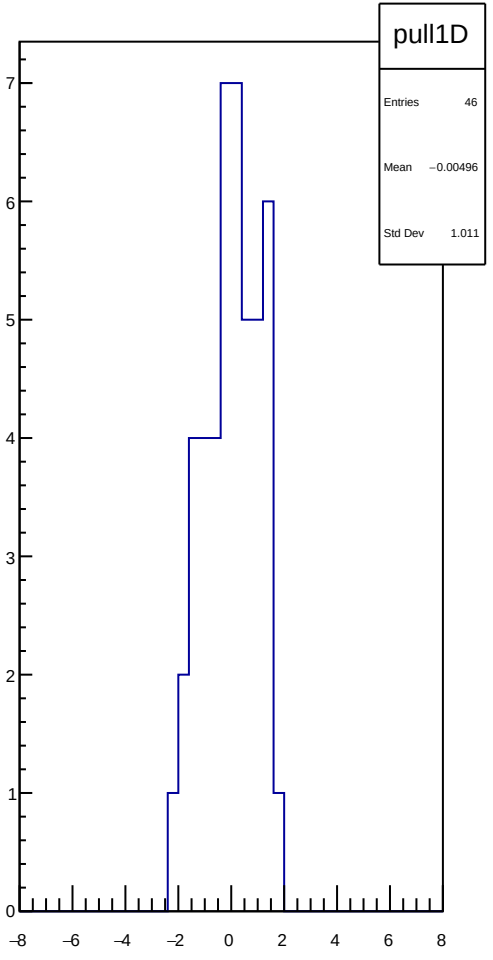

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.463e+05 / 45
p0 0.01321 ± 1.504e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

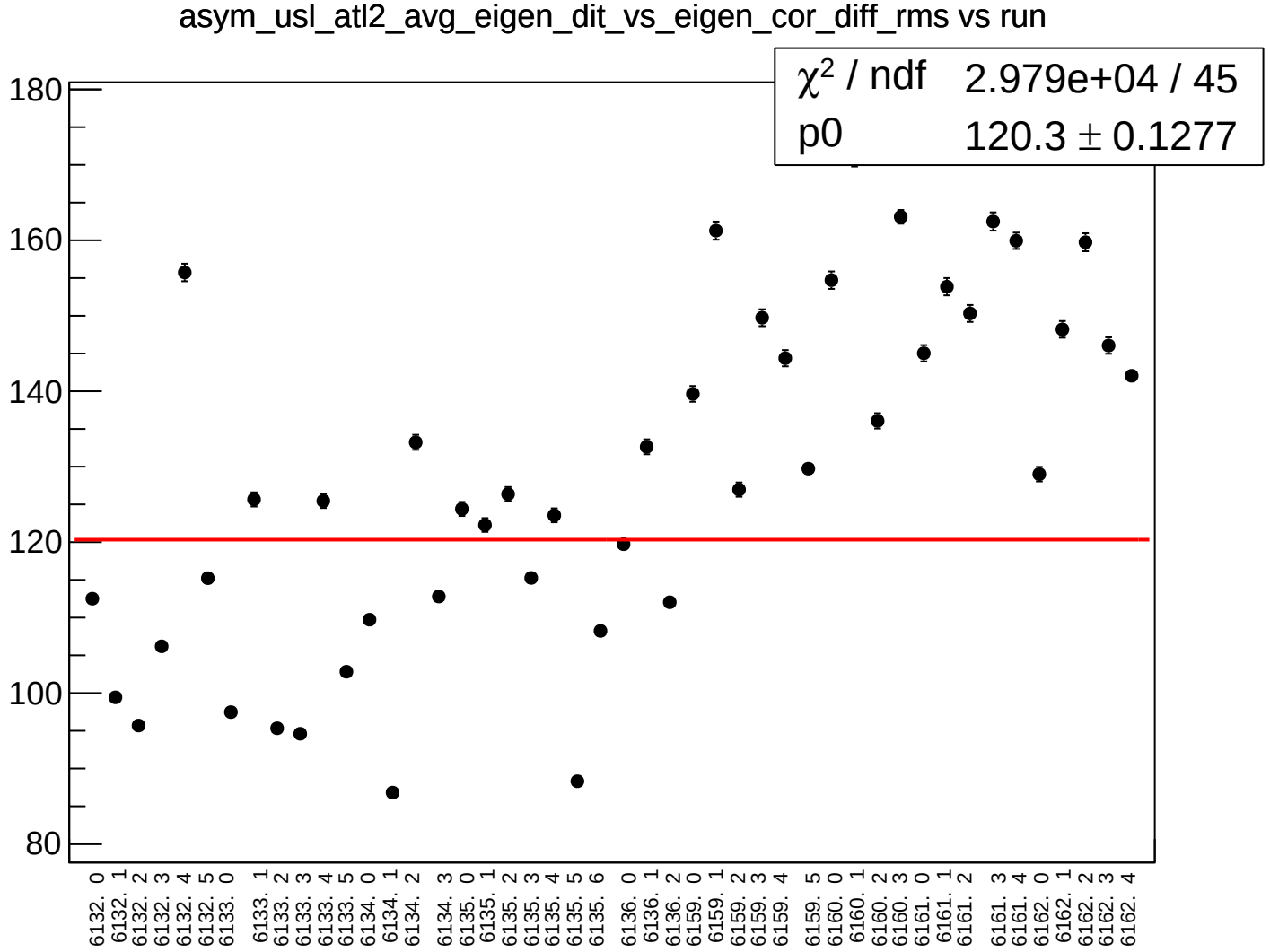

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 47 / 45
p0 −0.03134 ± 0.1805
pull
Entries 46
Mean −44.99
Std Dev 0

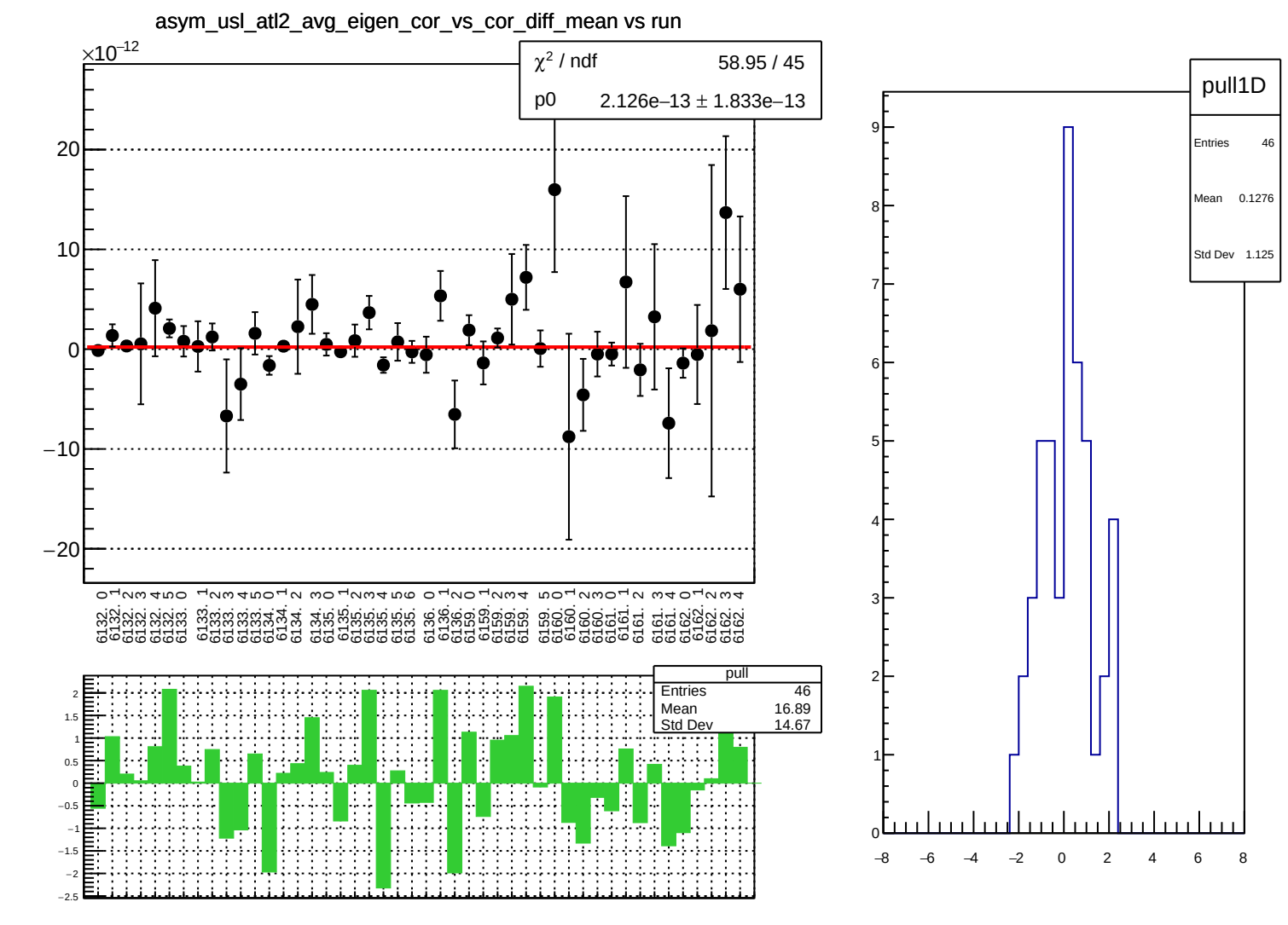

pull1D
Entries 46
Mean −0.00496
Std Dev 1.011

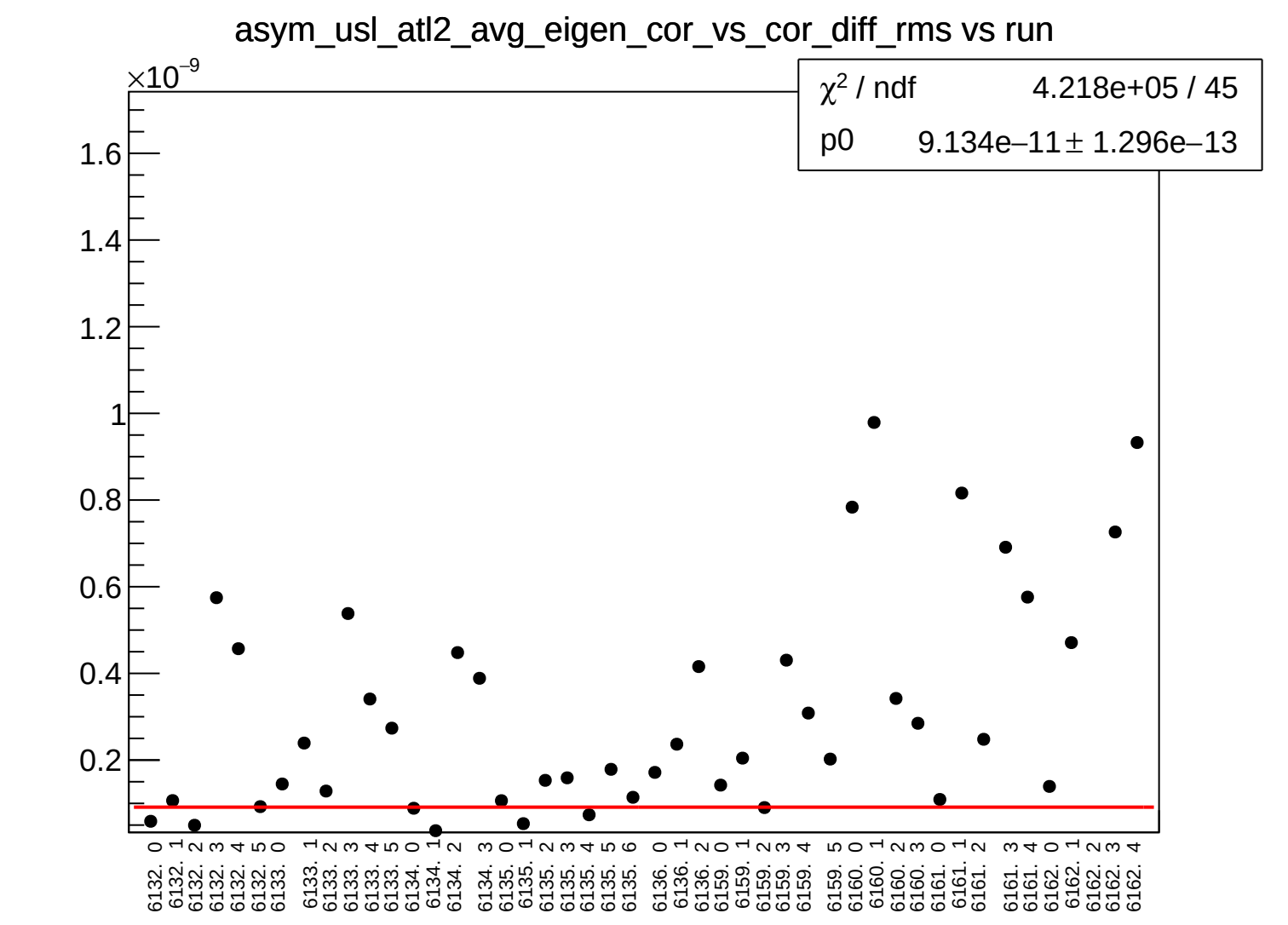

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.979e+04 / 45
p0 120.3 ± 0.1277
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

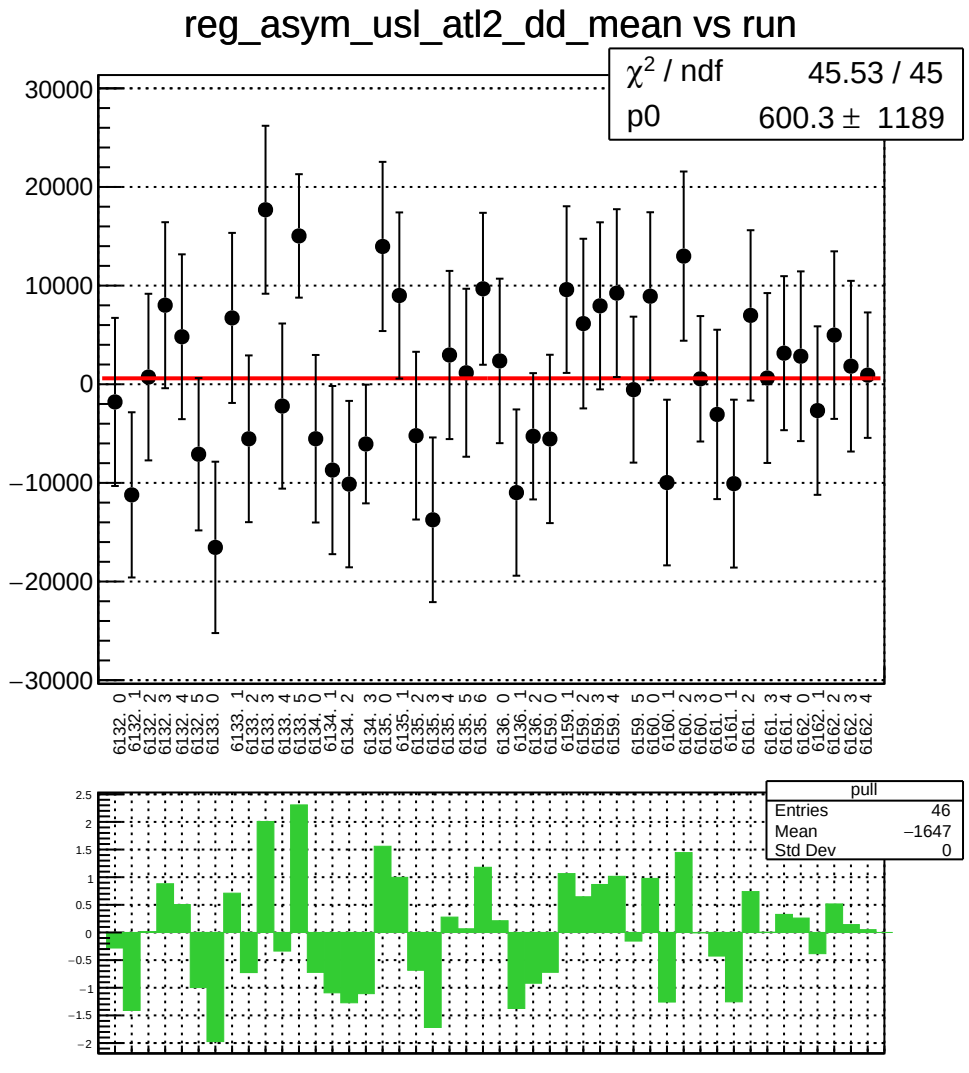

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47 / 45
p0 −0.03134 ± 0.1805
pull
Entries 46
Mean −44.99
Std Dev 0

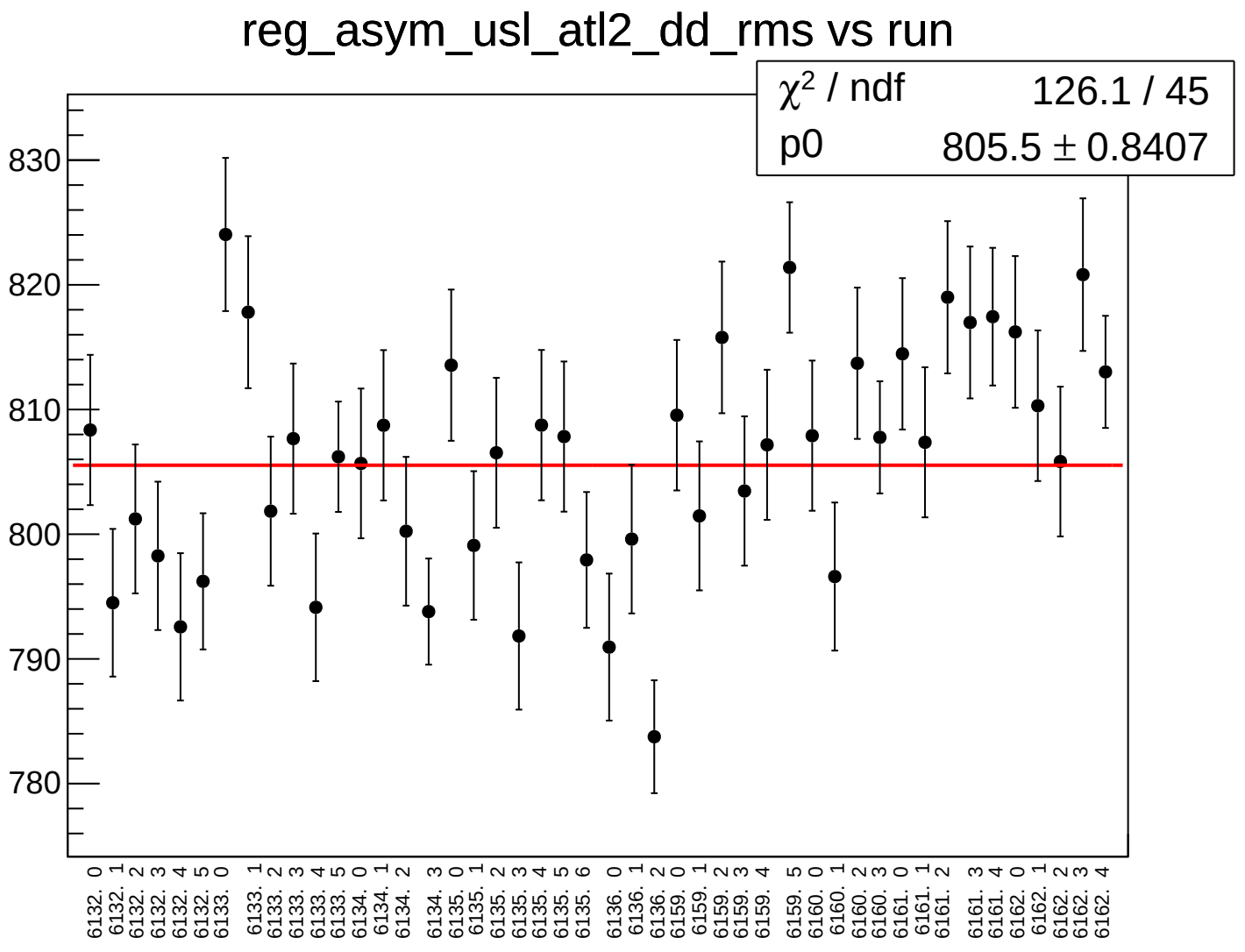

pull1D
Entries 46
Mean −0.00496
Std Dev 1.011

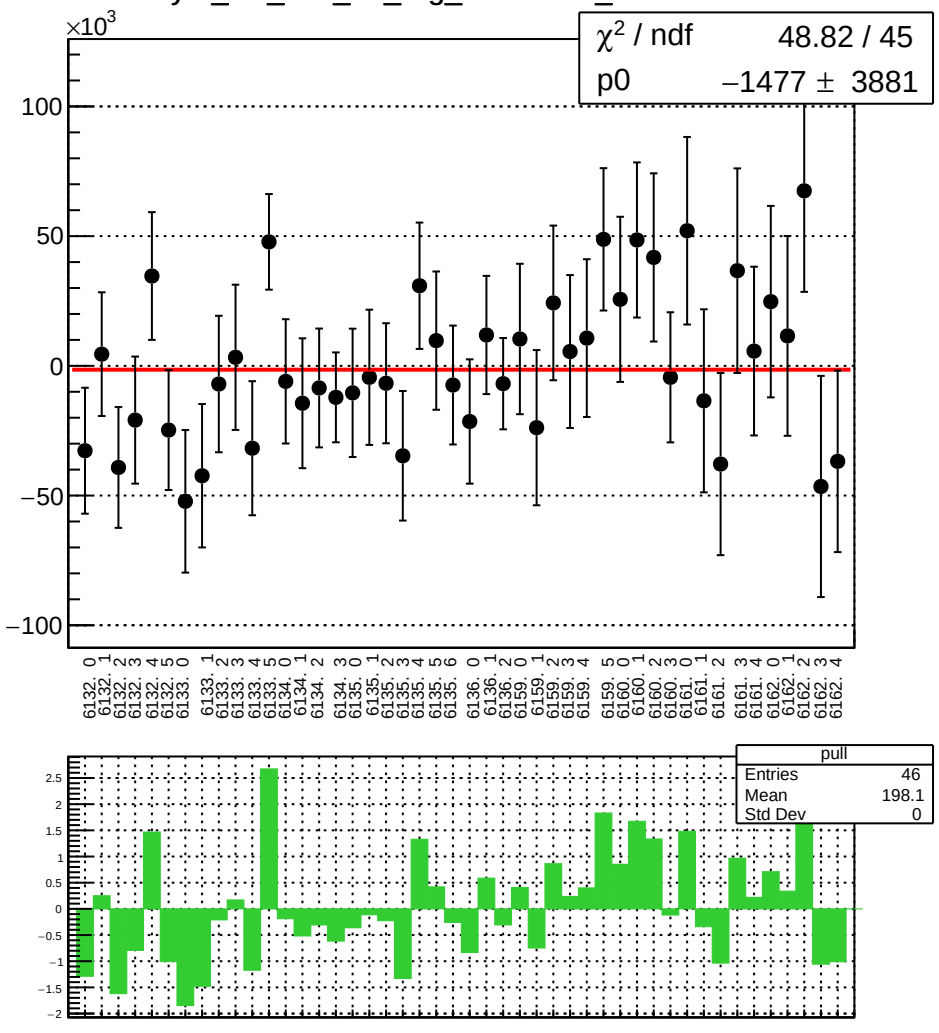

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.979e+04 / 45
p0 120.3 ± 0.1277
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

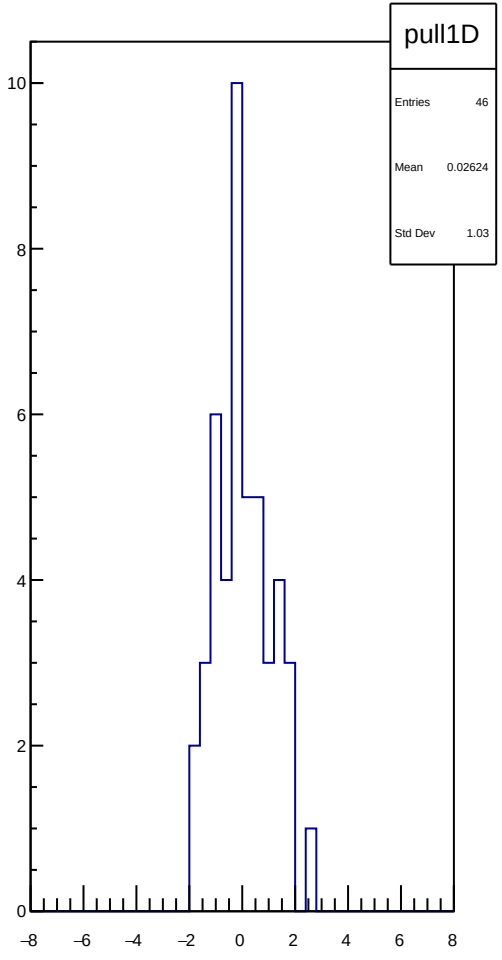

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 58.95 / 45
p0 2.126e−13 ± 1.833e−13
20
10
0
−10
−20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 16.89
Std Dev 14.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean 0.1276
Std Dev 1.125
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

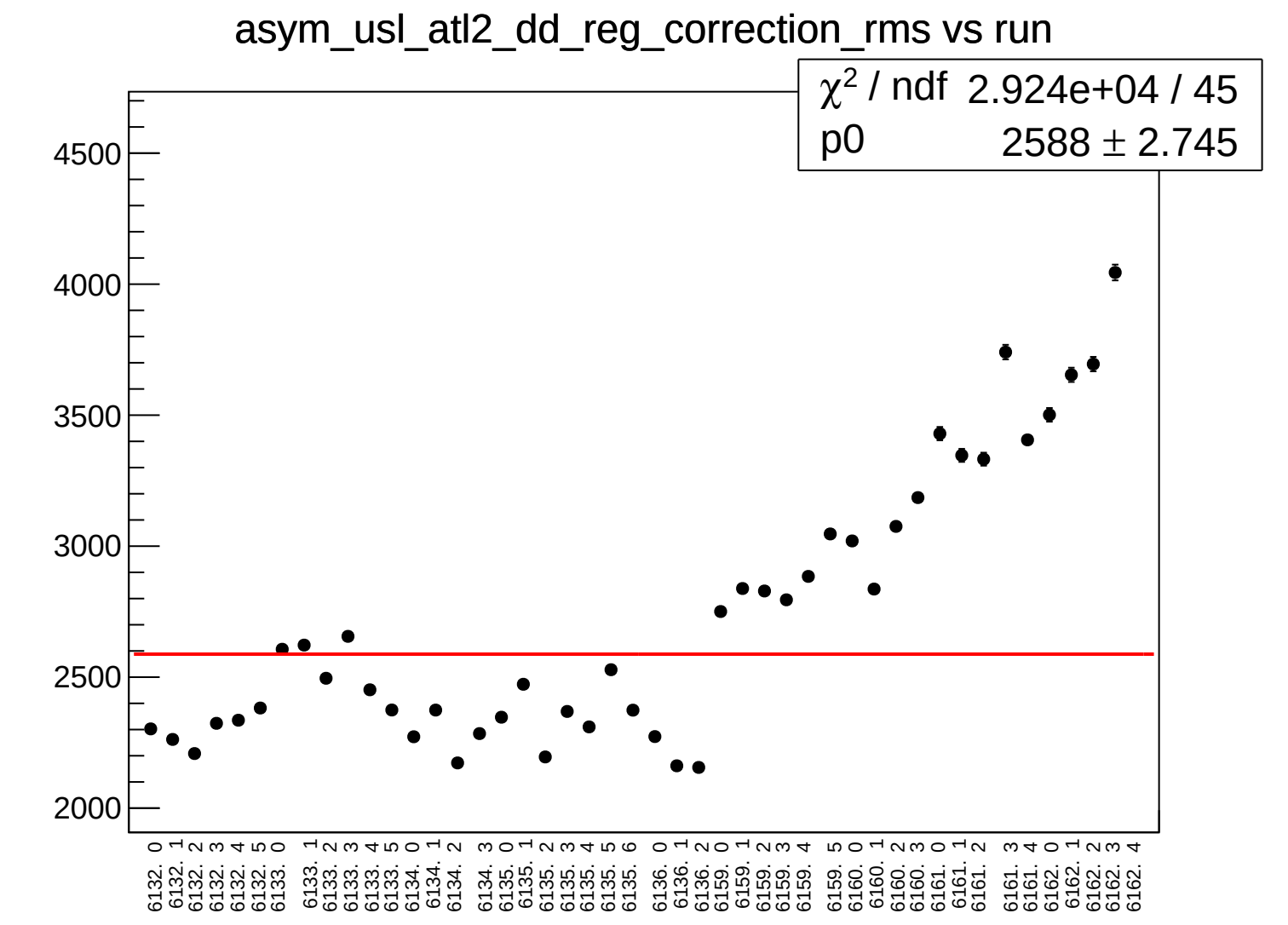

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.218e+05 / 45
p0 9.134e−11 ± 1.296e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

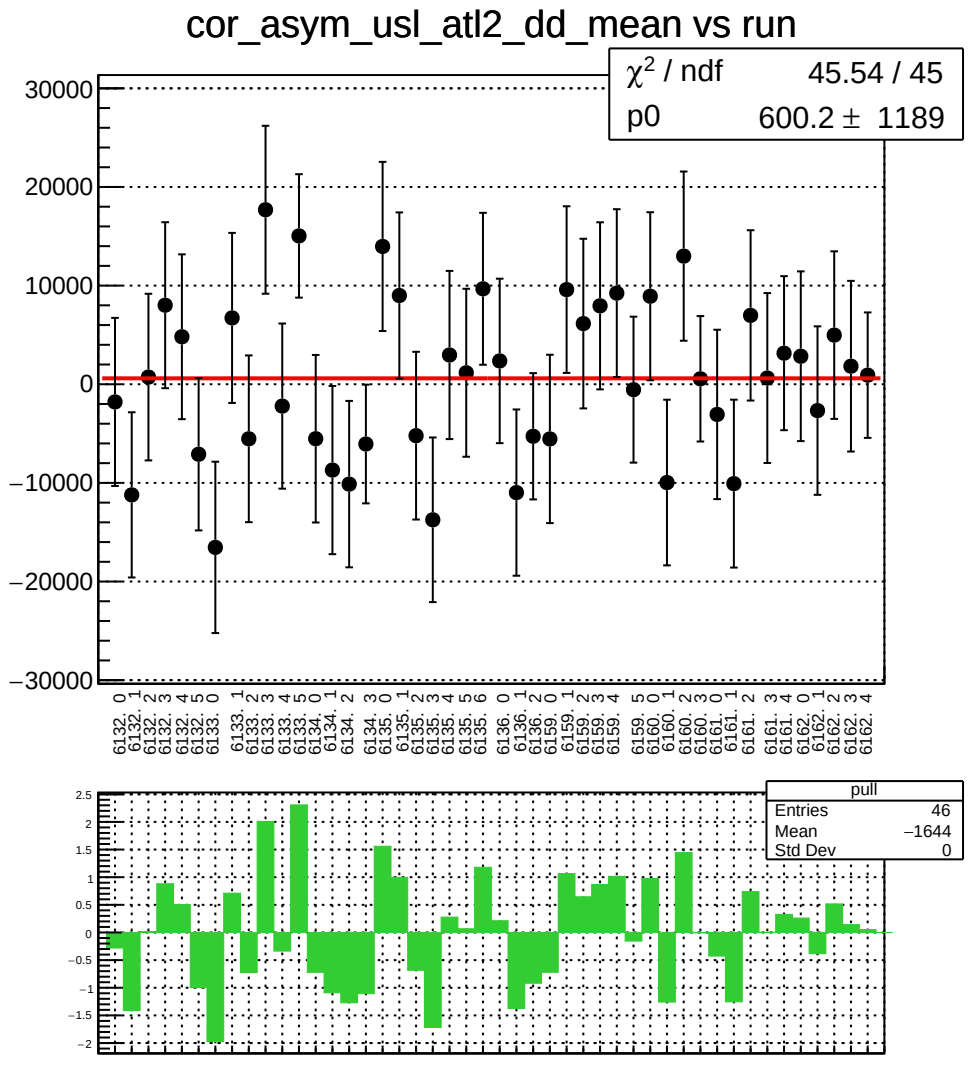

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 45.53 / 45
p0 600.3 ± 1189
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1647
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.0009183
Std Dev 0.9949
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 126.1 / 45
p0 805.5 ± 0.8407
830
820
810
800
790
780
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 48.82 / 45
p0 −1477 ± 3881
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 198.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.02624
Std Dev 1.03
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 2.924e+04 / 45
p0 2588 ± 2.745
4500
4000
3500
3000
2500
2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 45.54 / 45
p0 600.2 ± 1189
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 3
6133. 4
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6136. 0
6136. 1
6136. 2
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6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1644
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.0009196
Std Dev 0.9949
9
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1
0
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−6
−4
−2
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2
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6
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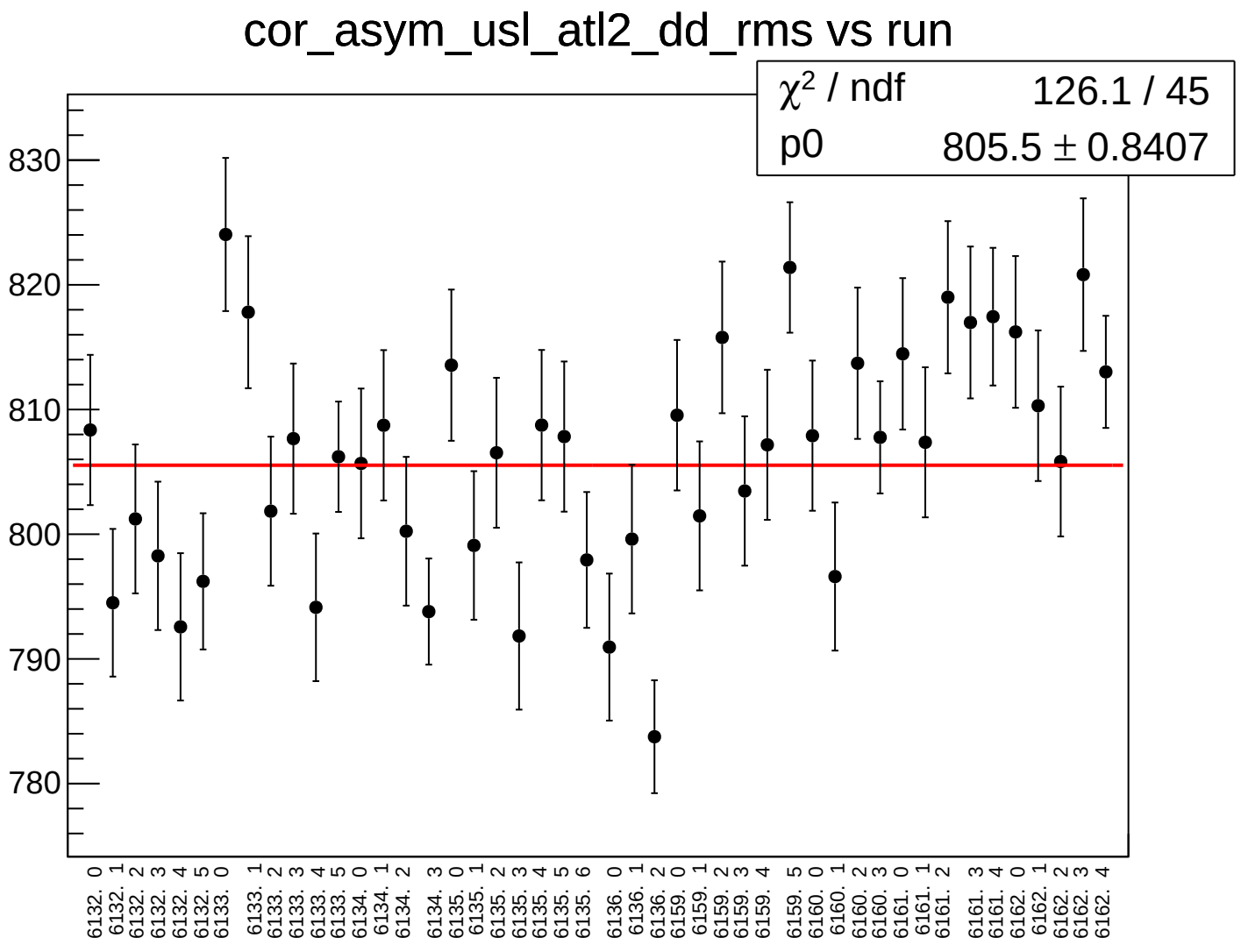
cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 126.1 / 45
p0 805.5 ± 0.8407
830
820
810
800
790
780
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
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6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
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6159. 2
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6160. 2
6160. 3
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6162. 0
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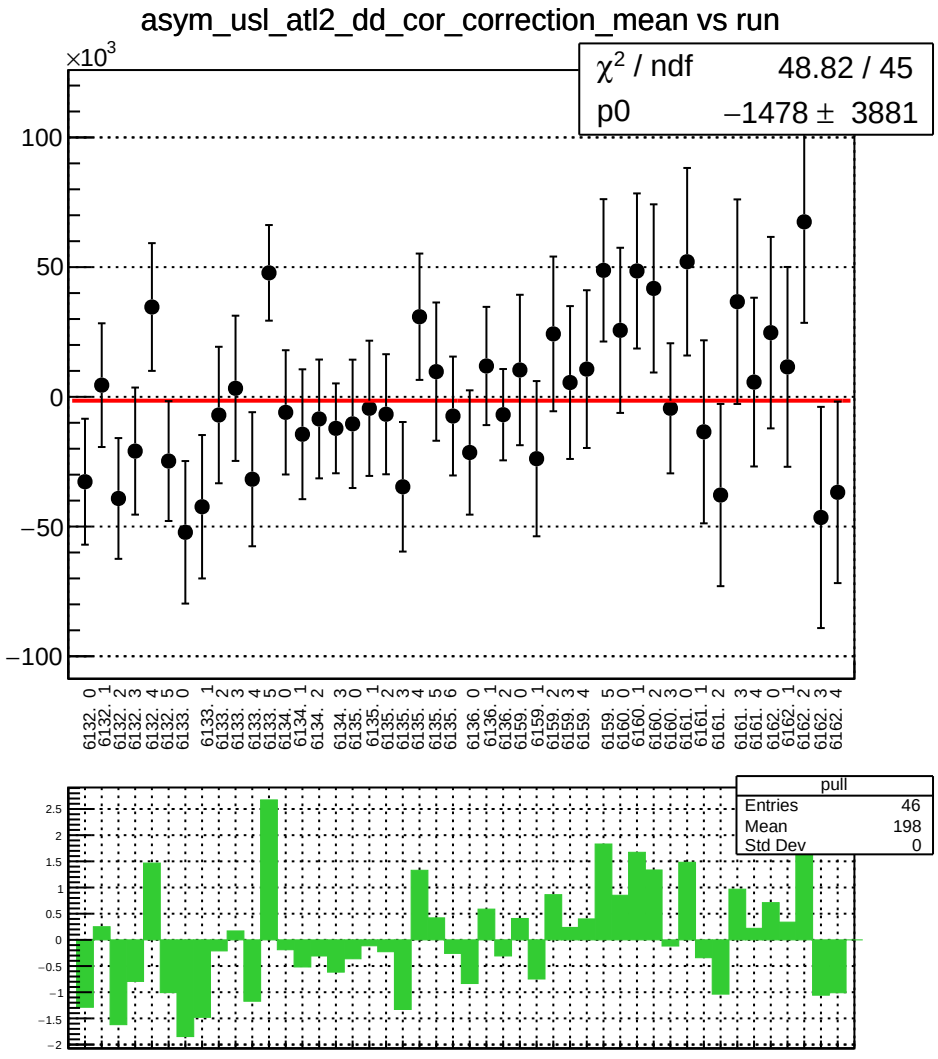
asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 48.82 / 45
p0 −1478 ± 3881
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
6159. 0
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 198
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.02624
Std Dev 1.03
10
8
6
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2
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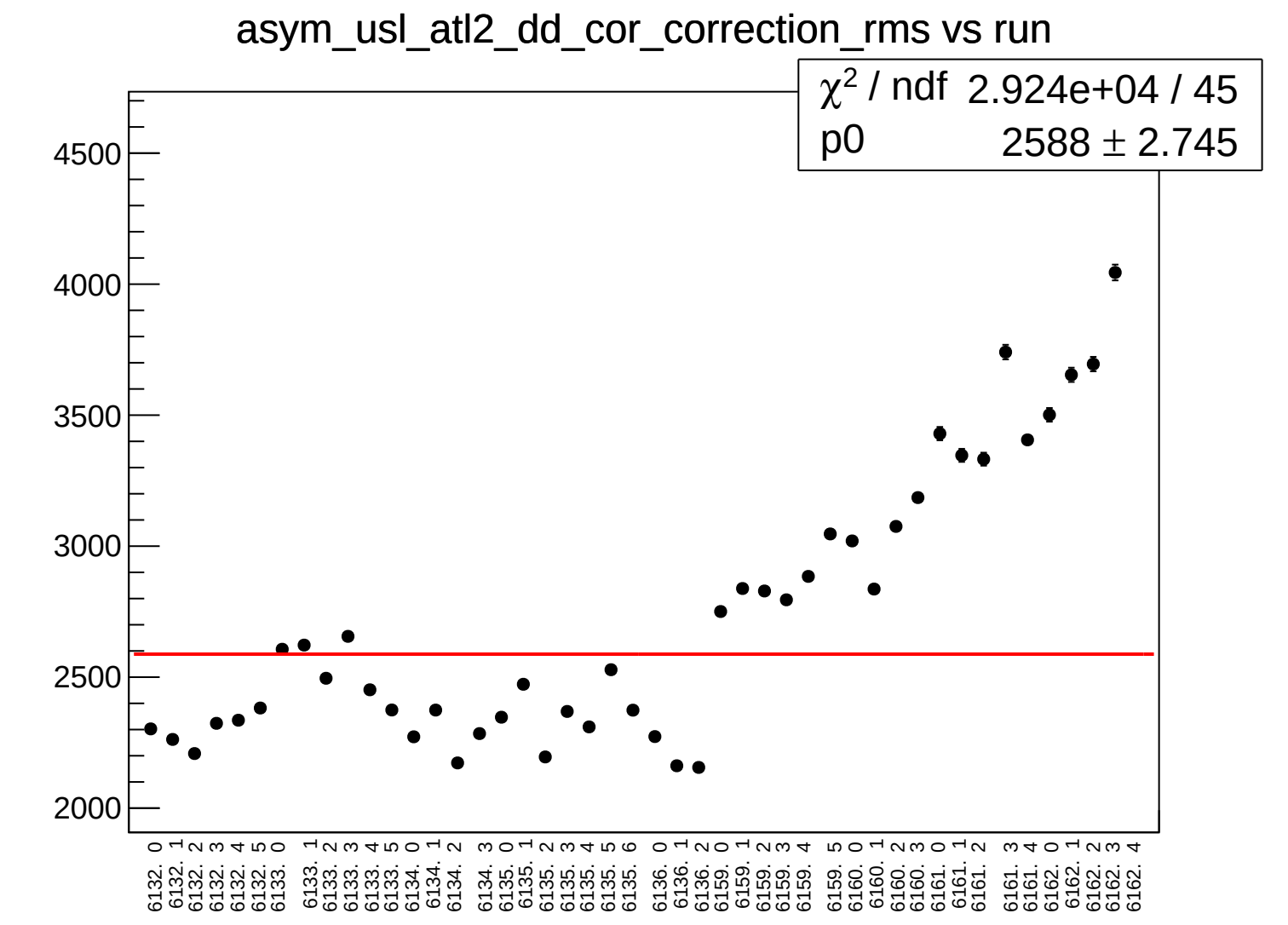
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 2.924e+04 / 45
p0 2588 ± 2.745
4500
4000
3500
3000
2500
2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
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6135. 2
6135. 3
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6135. 6
6136. 0
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6136. 2
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6159. 2
6159. 3
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6160. 0
6160. 1
6160. 2
6160. 3
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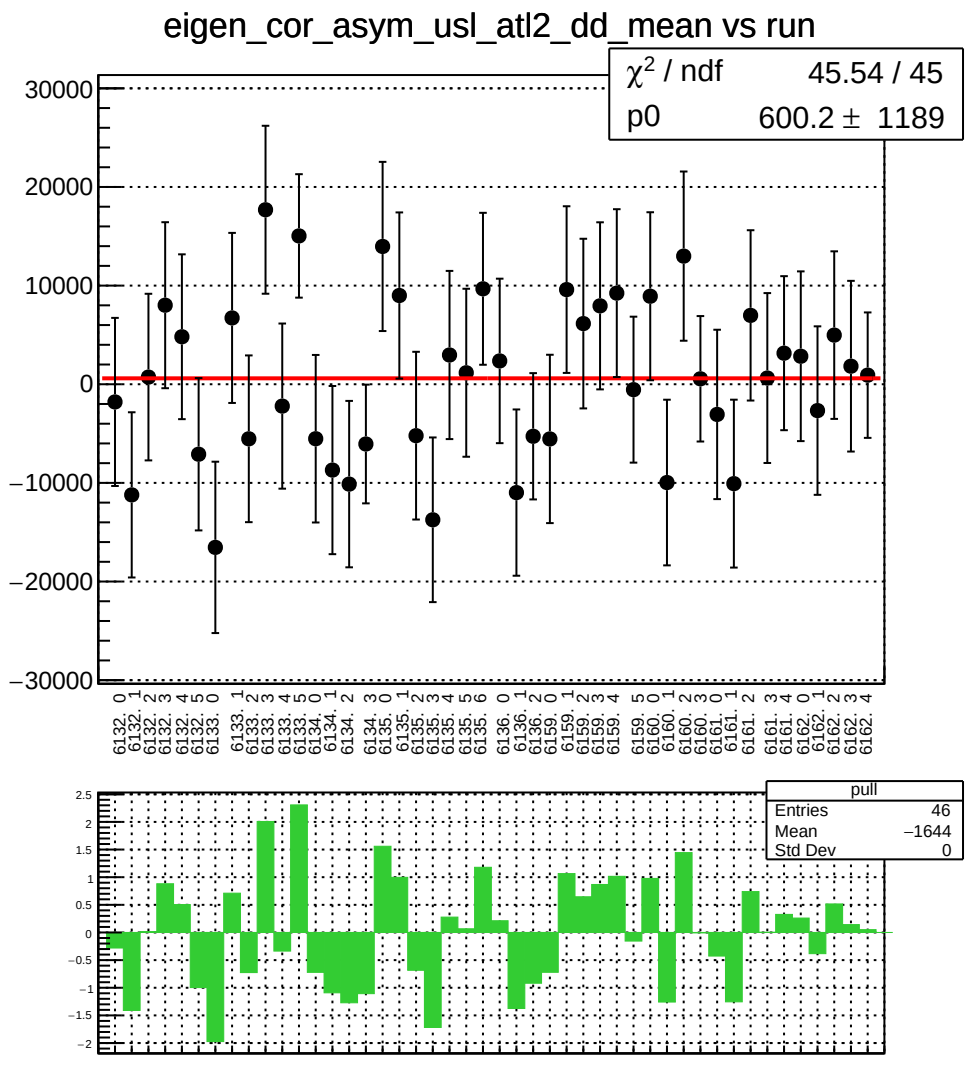
6162. 4


eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 45.54 / 45
p0 600.2 ± 1189
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1644
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.0009196
Std Dev 0.9949
9
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5
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3
2
1
0
−8
−6
−4
−2
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2
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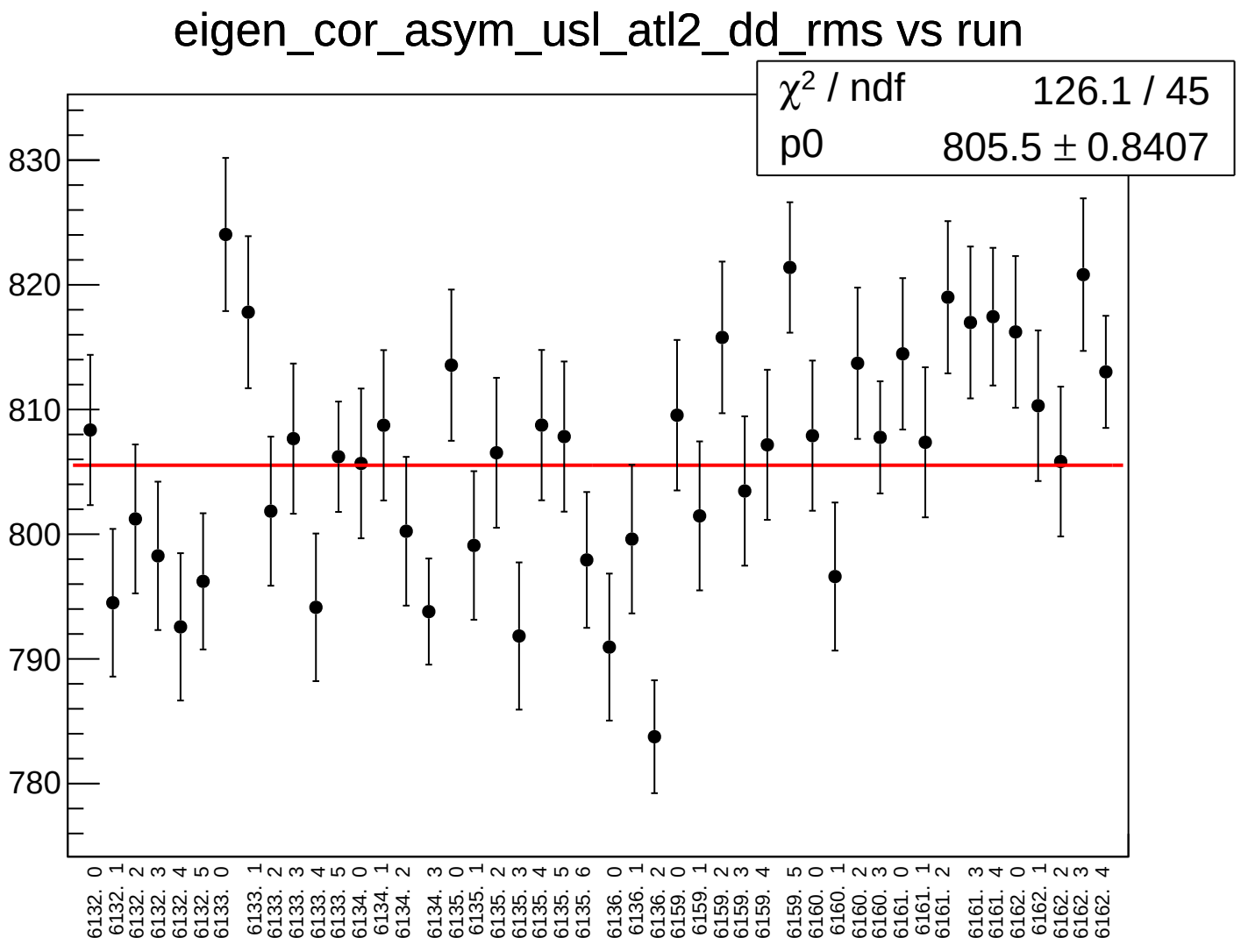
6
8


eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 126.1 / 45
p0 805.5 ± 0.8407
830
820
810
800
790
780
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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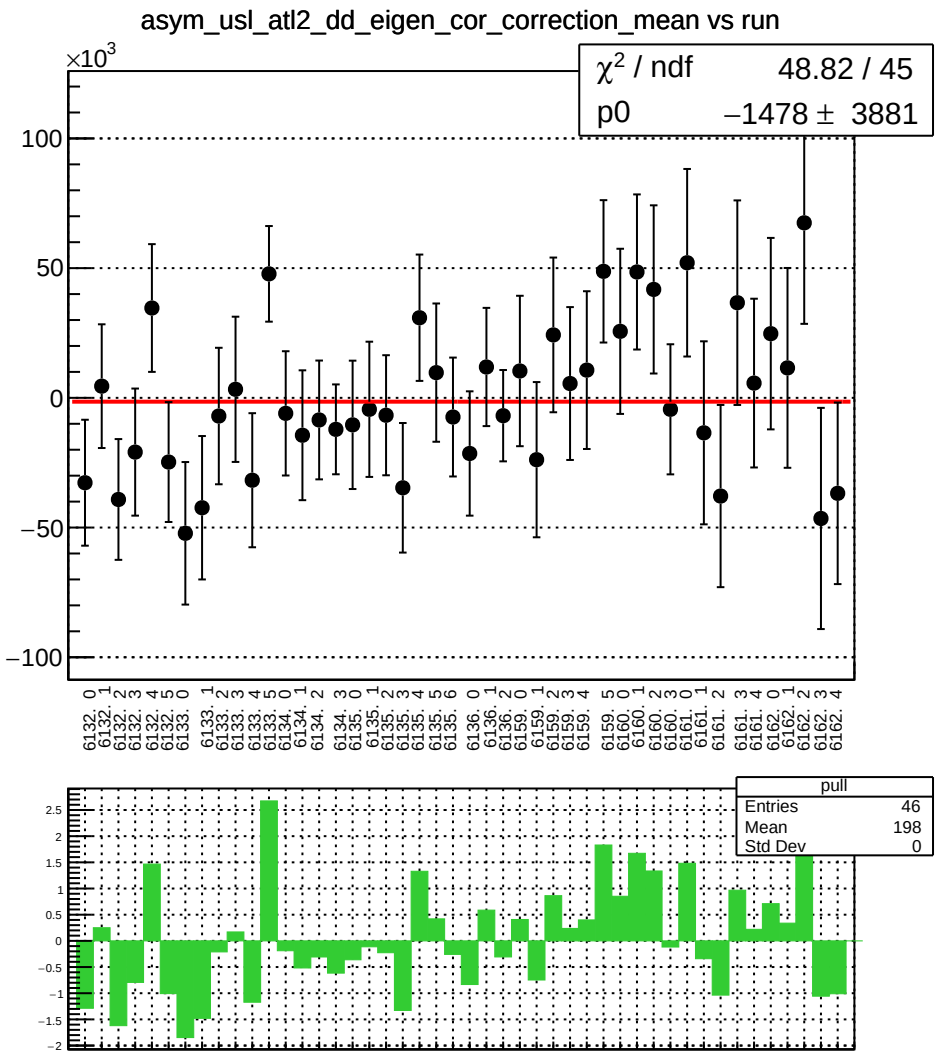
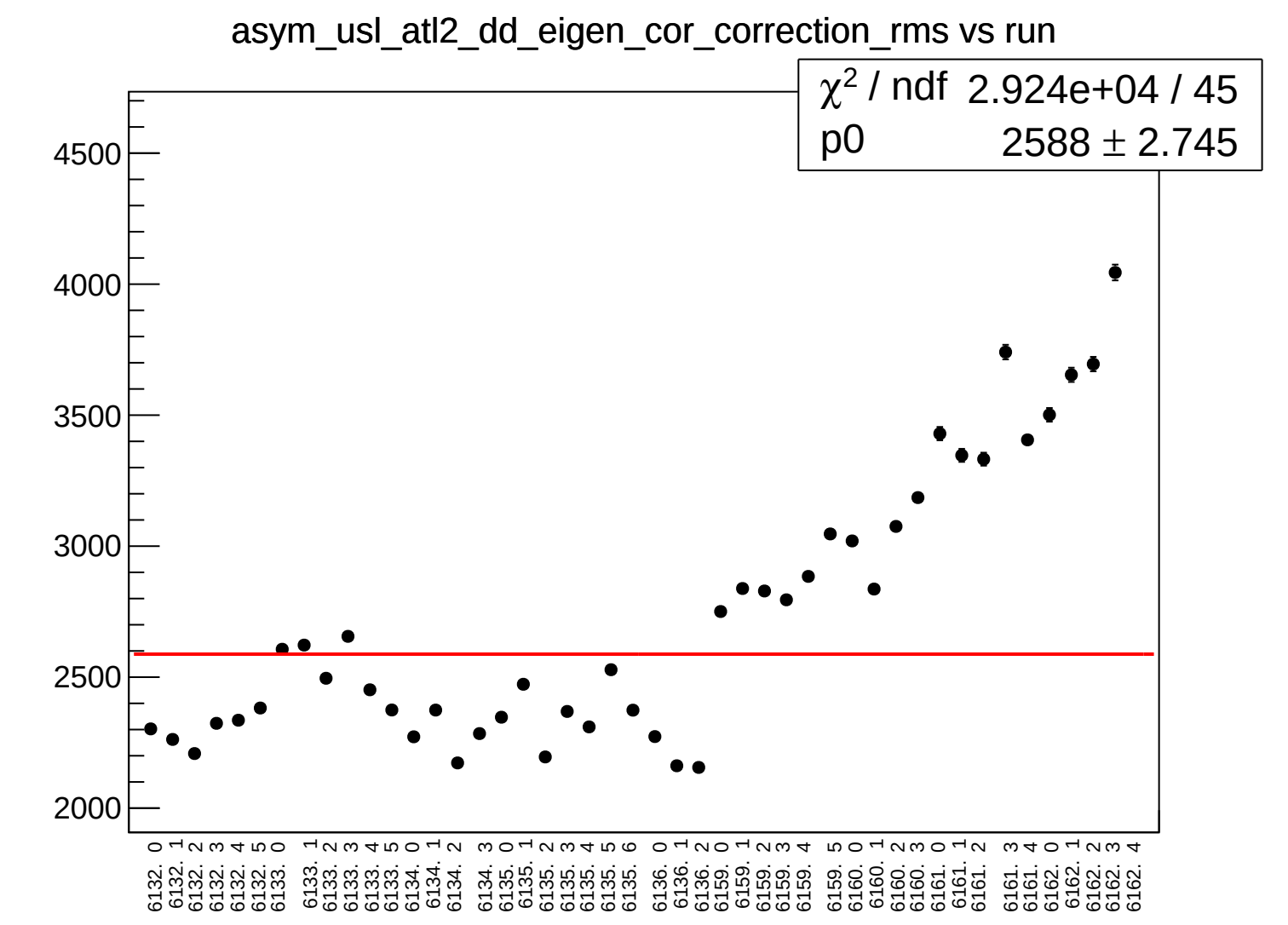
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 48.82 / 45
p0 −1478 ± 3881
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 198
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.02624
Std Dev 1.03
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.924e+04 / 45
p0 2588 ± 2.745
4500
4000
3500
3000
2500
2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 3
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6134. 2
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6135. 4
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6136. 0
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6159. 1
6159. 2
6159. 3
6159. 4
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6160. 0
6160. 1
6160. 2
6160. 3
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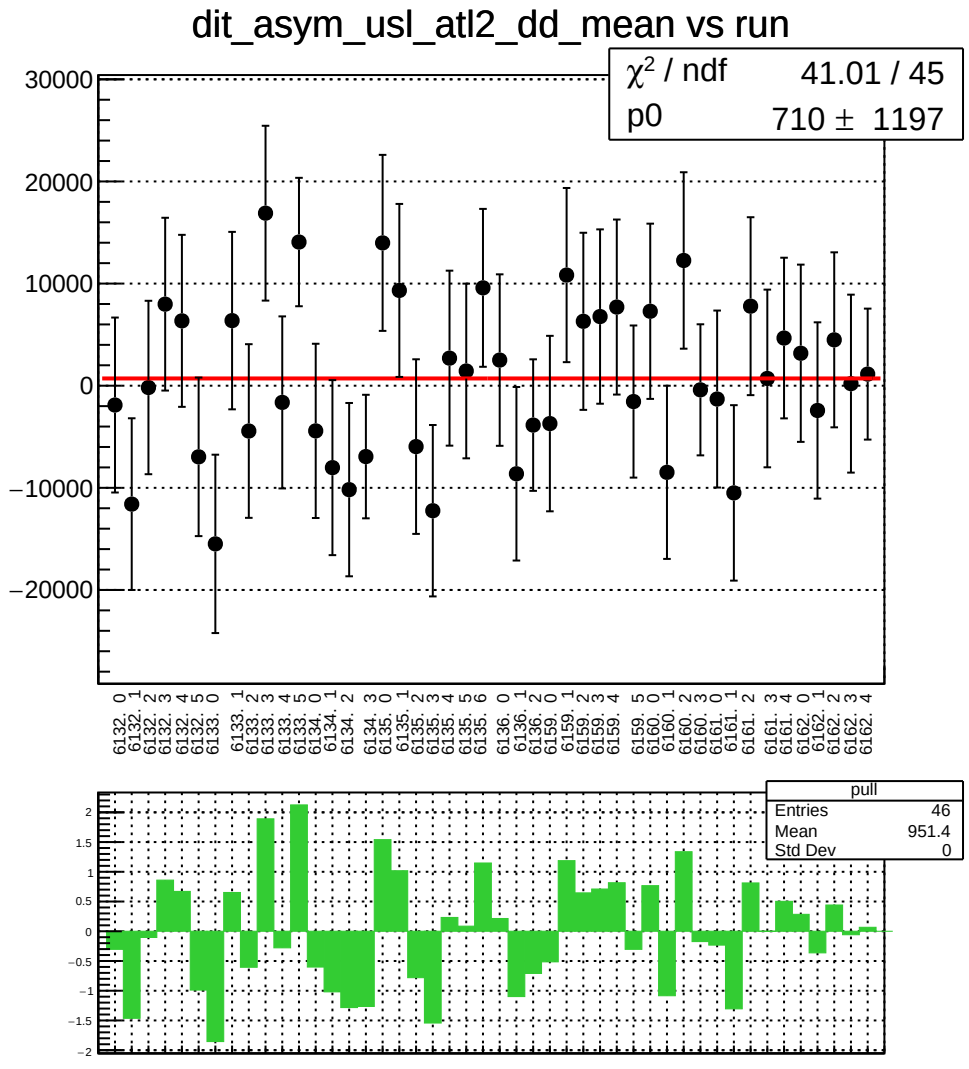
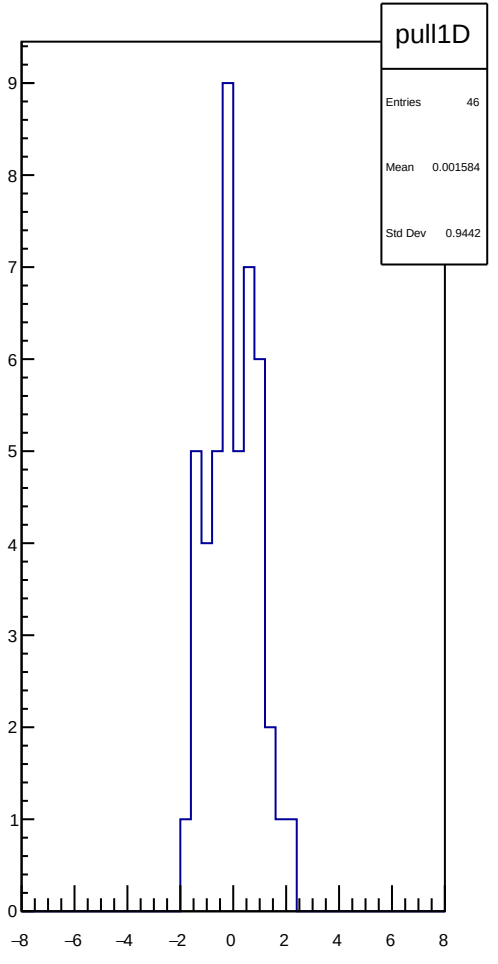
6162. 4


dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 41.01 / 45
p0 710 ± 1197
30000
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 951.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.001584
Std Dev 0.9442
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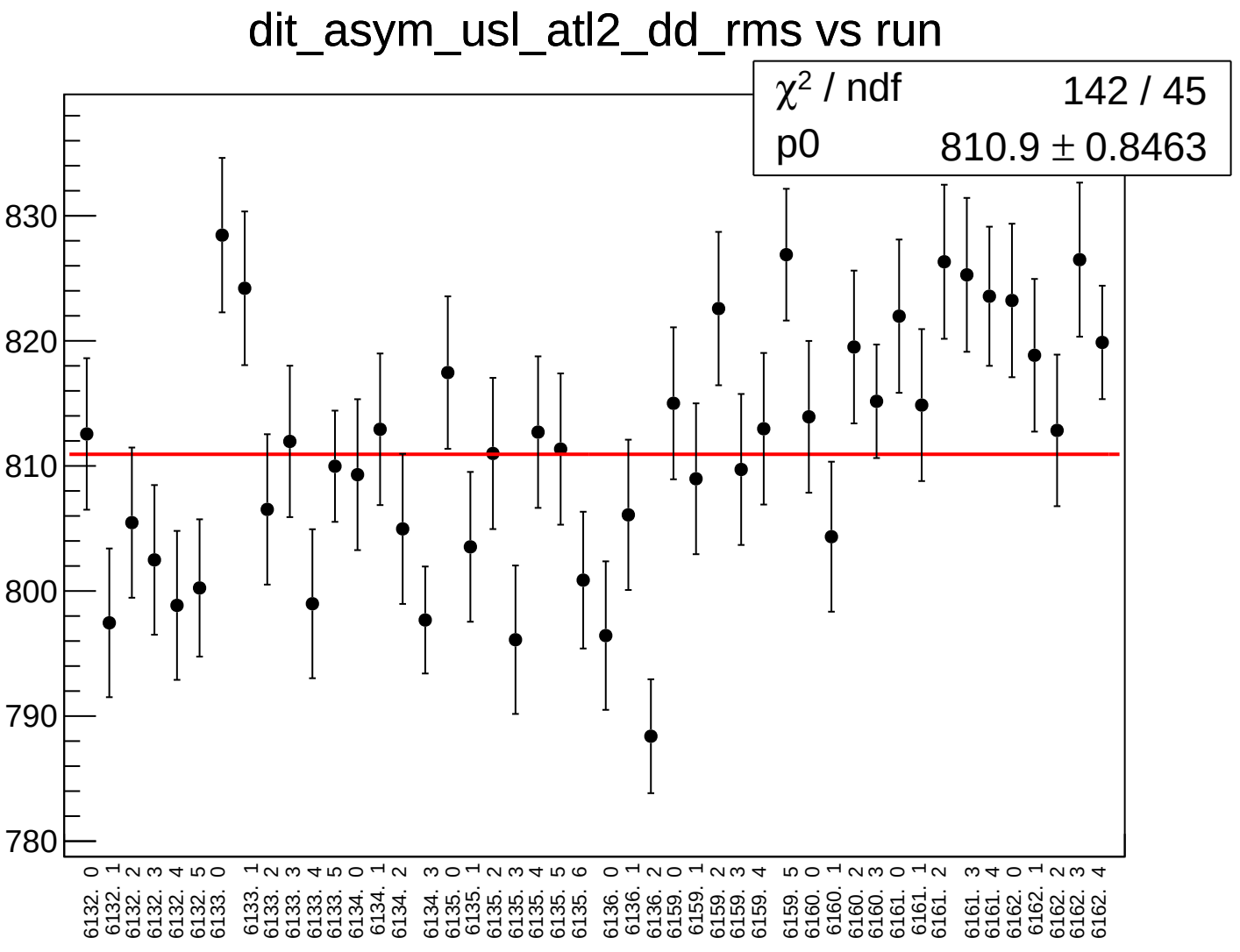
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 142 / 45
p0 810.9 ± 0.8463
830
820
810
800
790
780
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
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6159. 4
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6160. 2
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6162. 0
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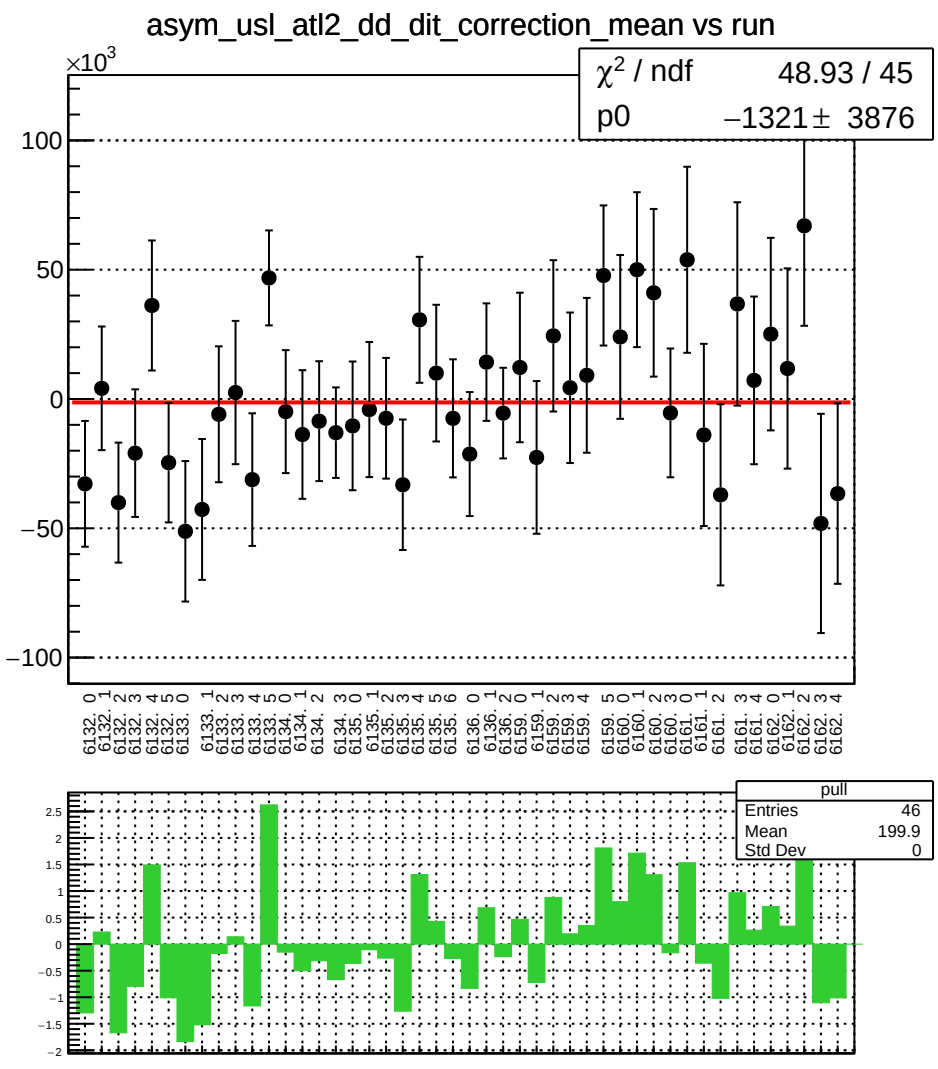
6162. 4


asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 48.93 / 45
p0 −1321 ± 3876
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 1
6135. 2
6135. 3
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6135. 6
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6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 199.9
Std Dev 0
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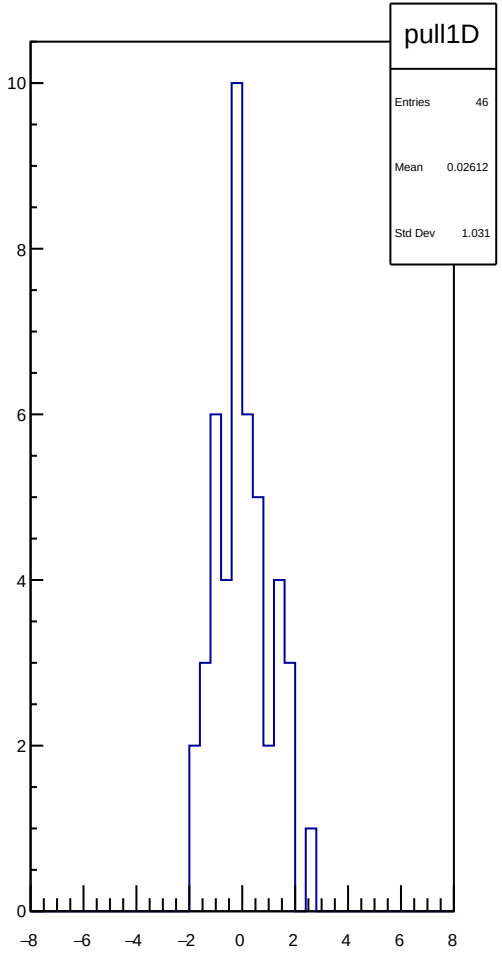
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.02612
Std Dev 1.031
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2
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−6
−4
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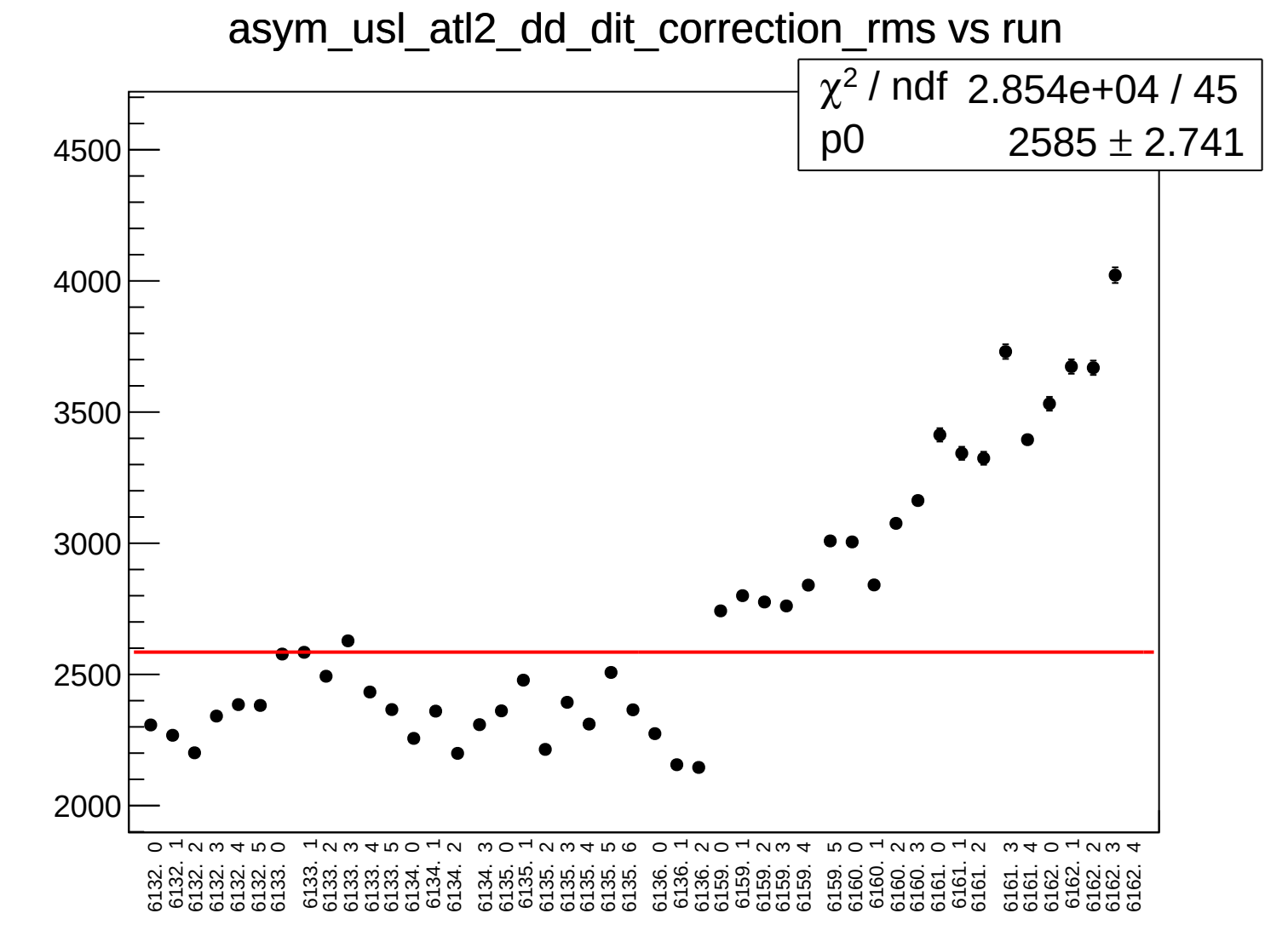
4
6
8


asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 2.854e+04 / 45
p0 2585 ± 2.741
4500
4000
3500
3000
2500
2000
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6133. 4
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6160. 1
6160. 2
6160. 3
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6161. 2
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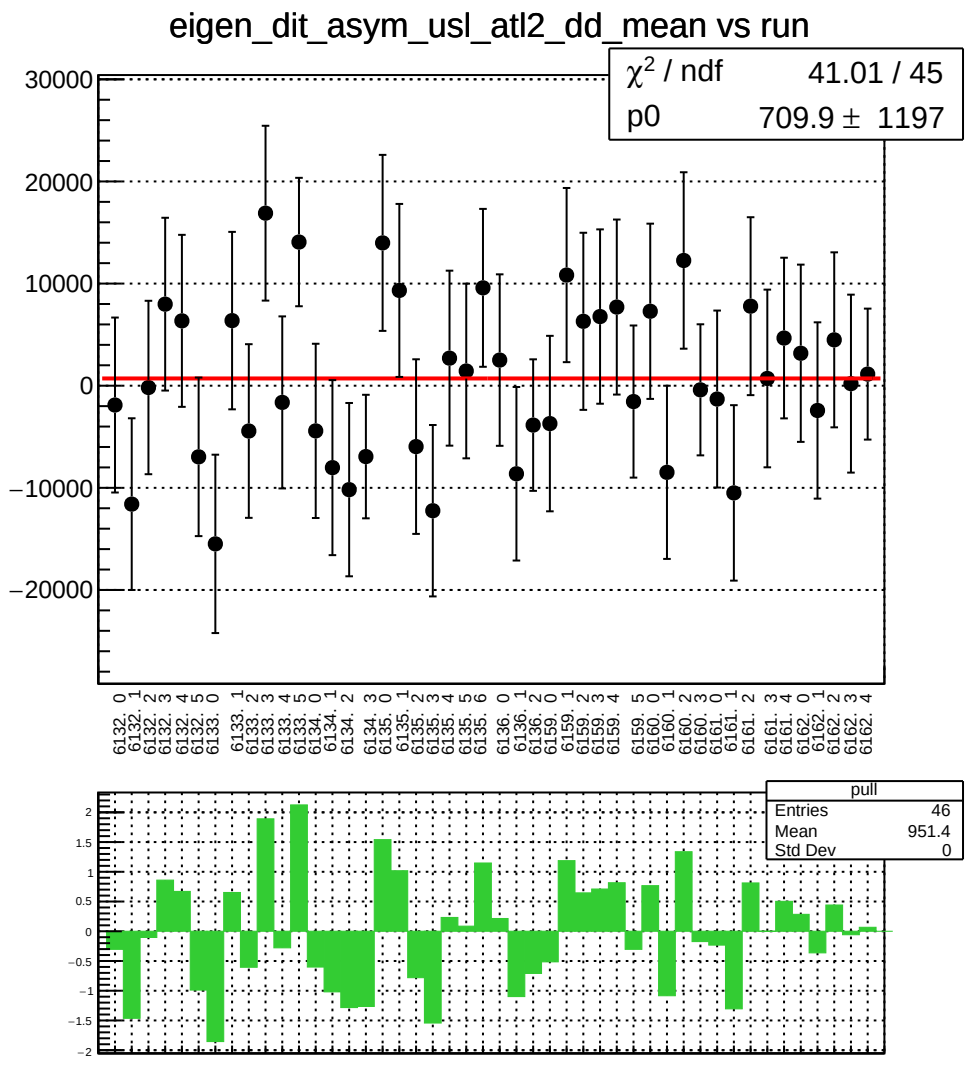
eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 41.01 / 45
p0 709.9 ± 1197
30000
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
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6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
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6160. 1
6160. 2
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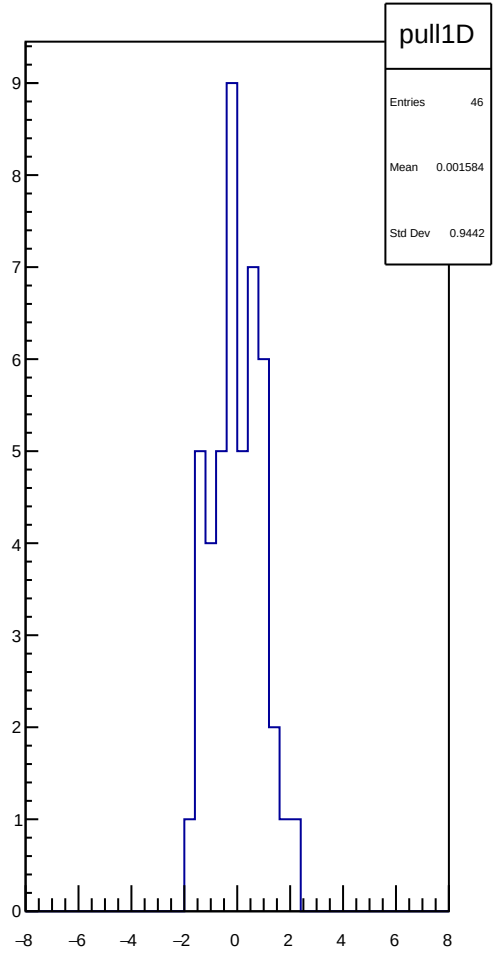
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 951.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.001584
Std Dev 0.9442
9
8
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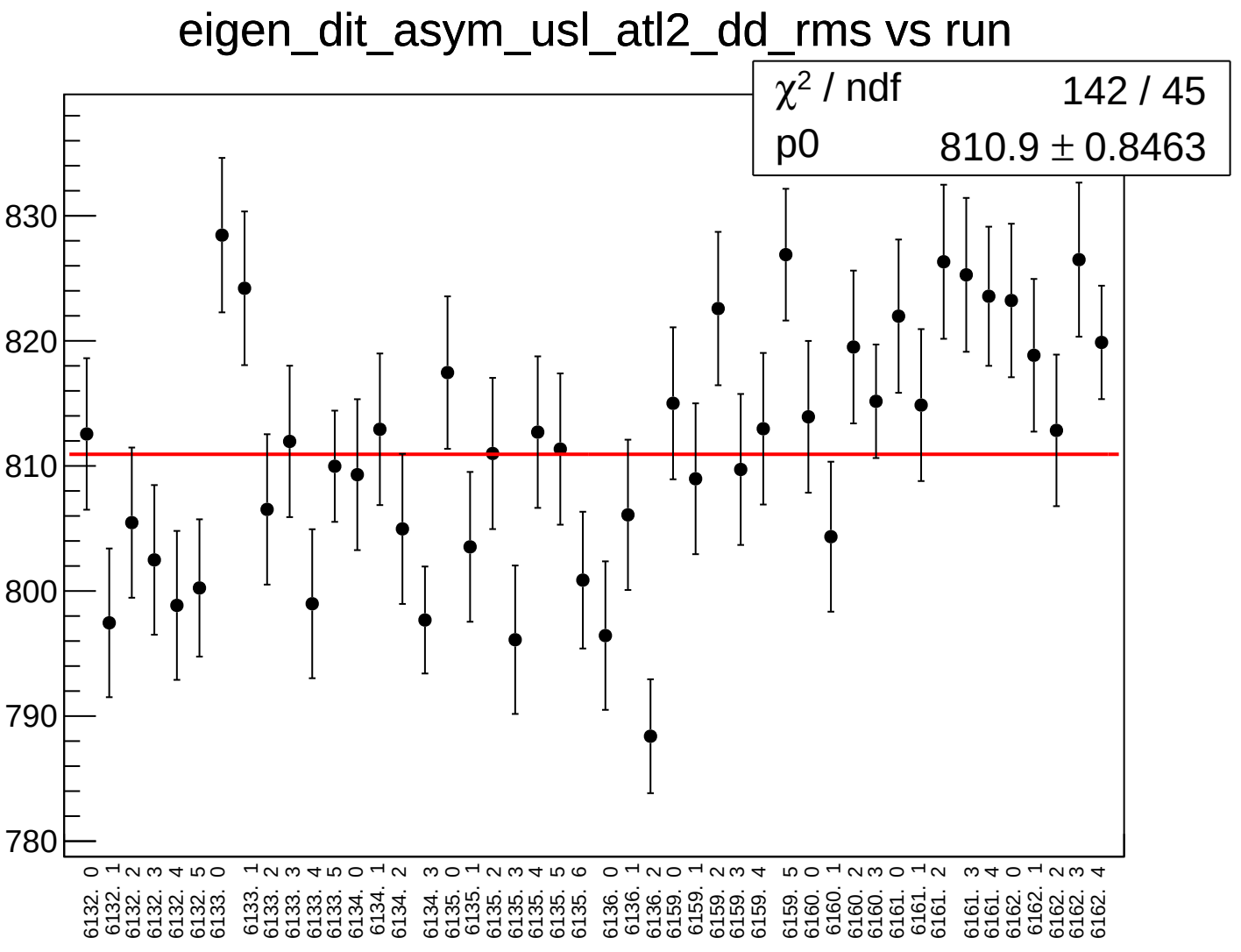
eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 142 / 45
p0 810.9 ± 0.8463
830
820
810
800
790
780
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
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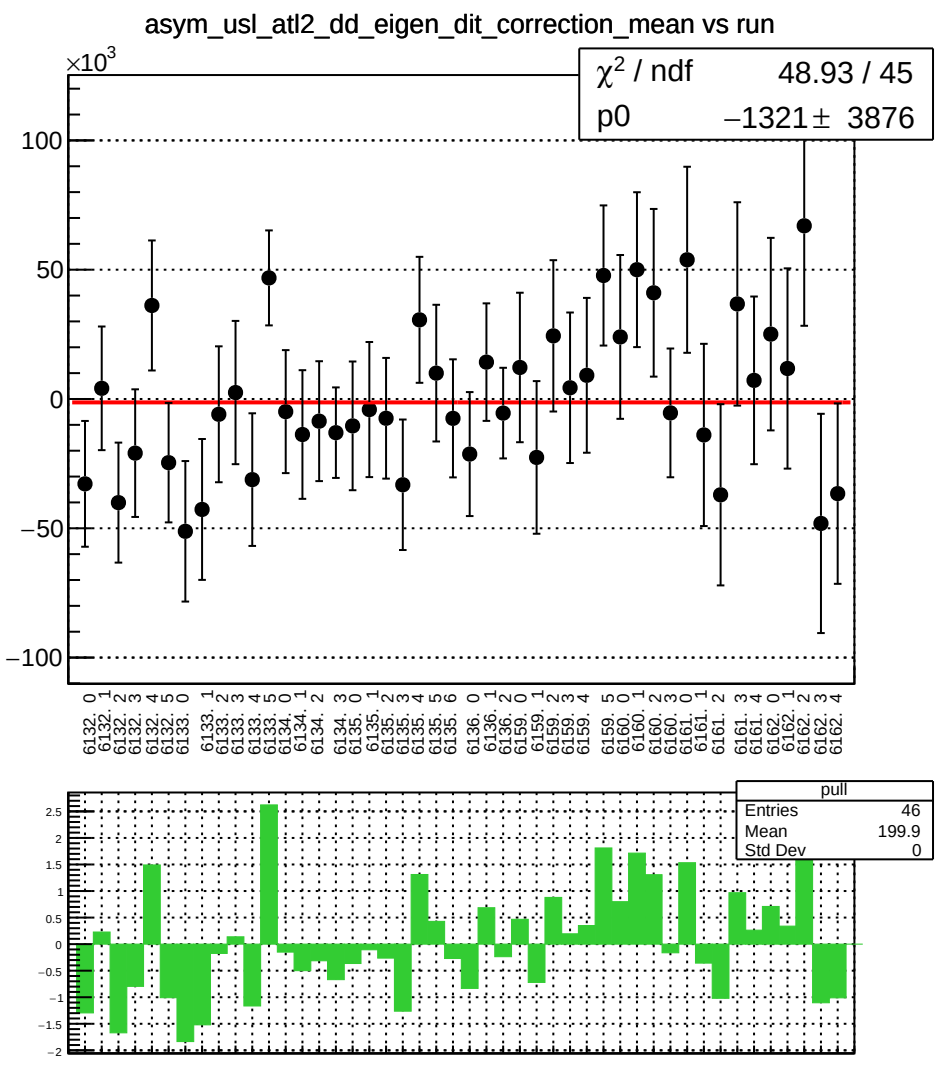
asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 48.93 / 45
p0 −1321 ± 3876
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
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6135. 2
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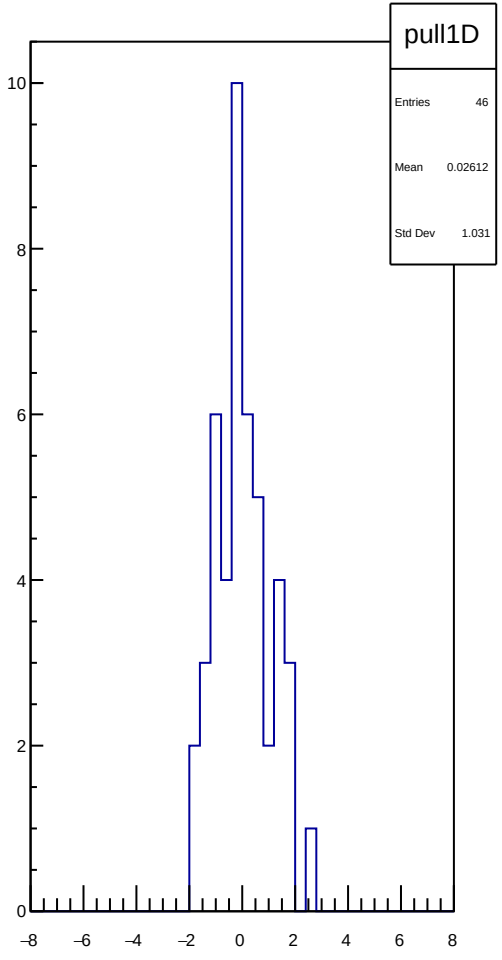
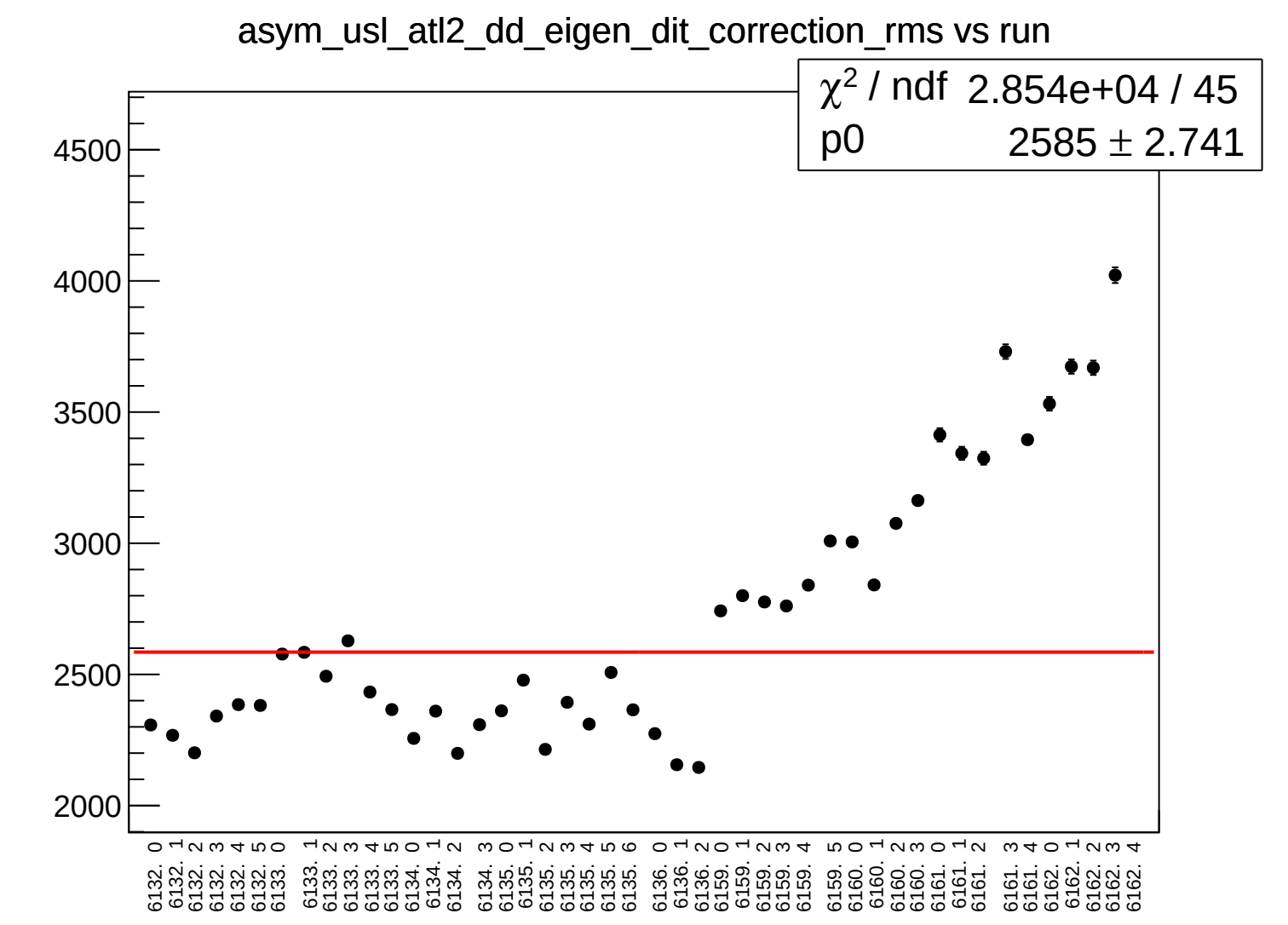
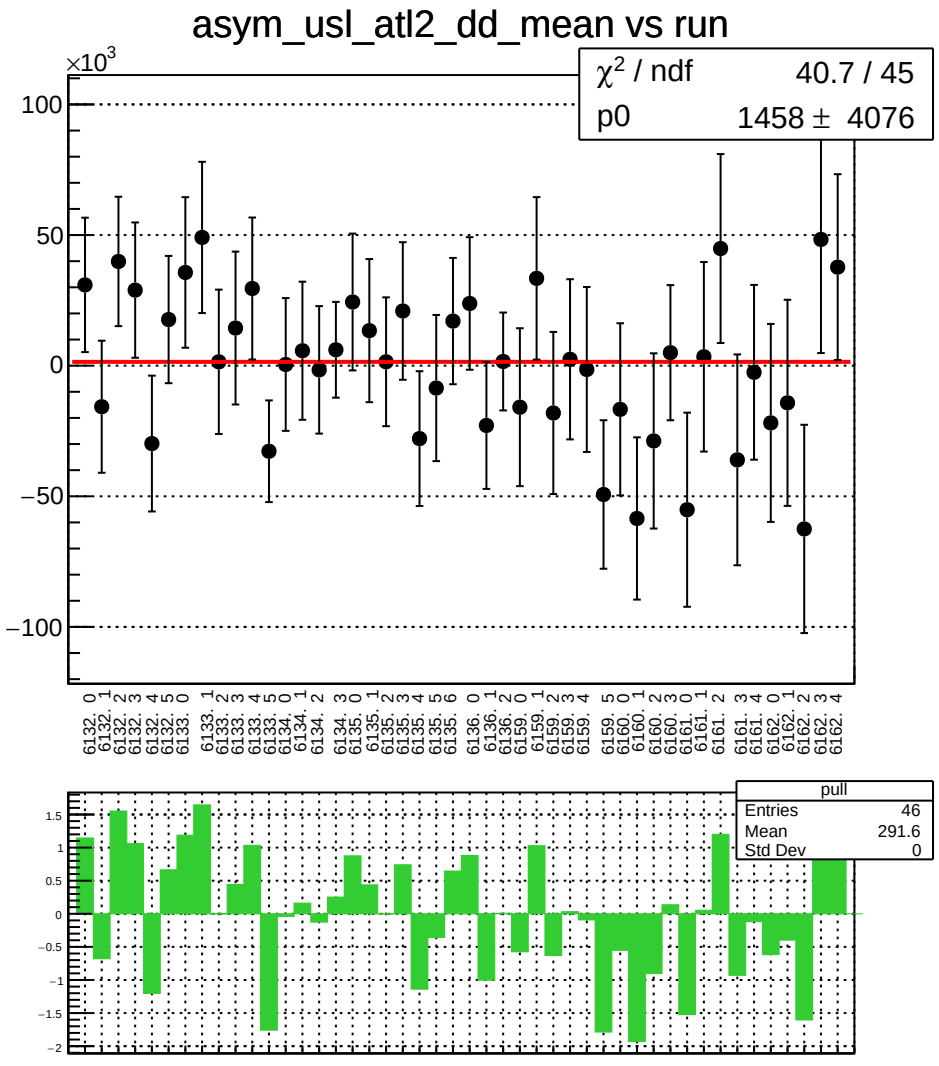
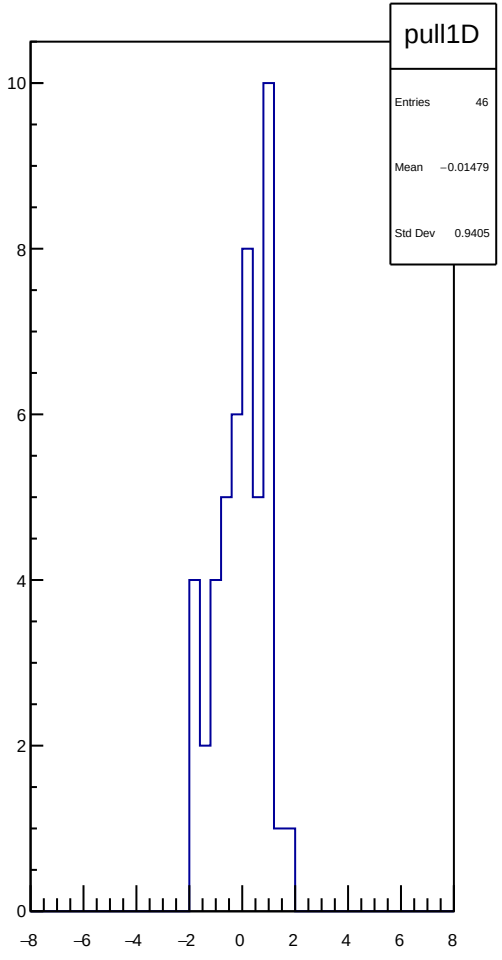
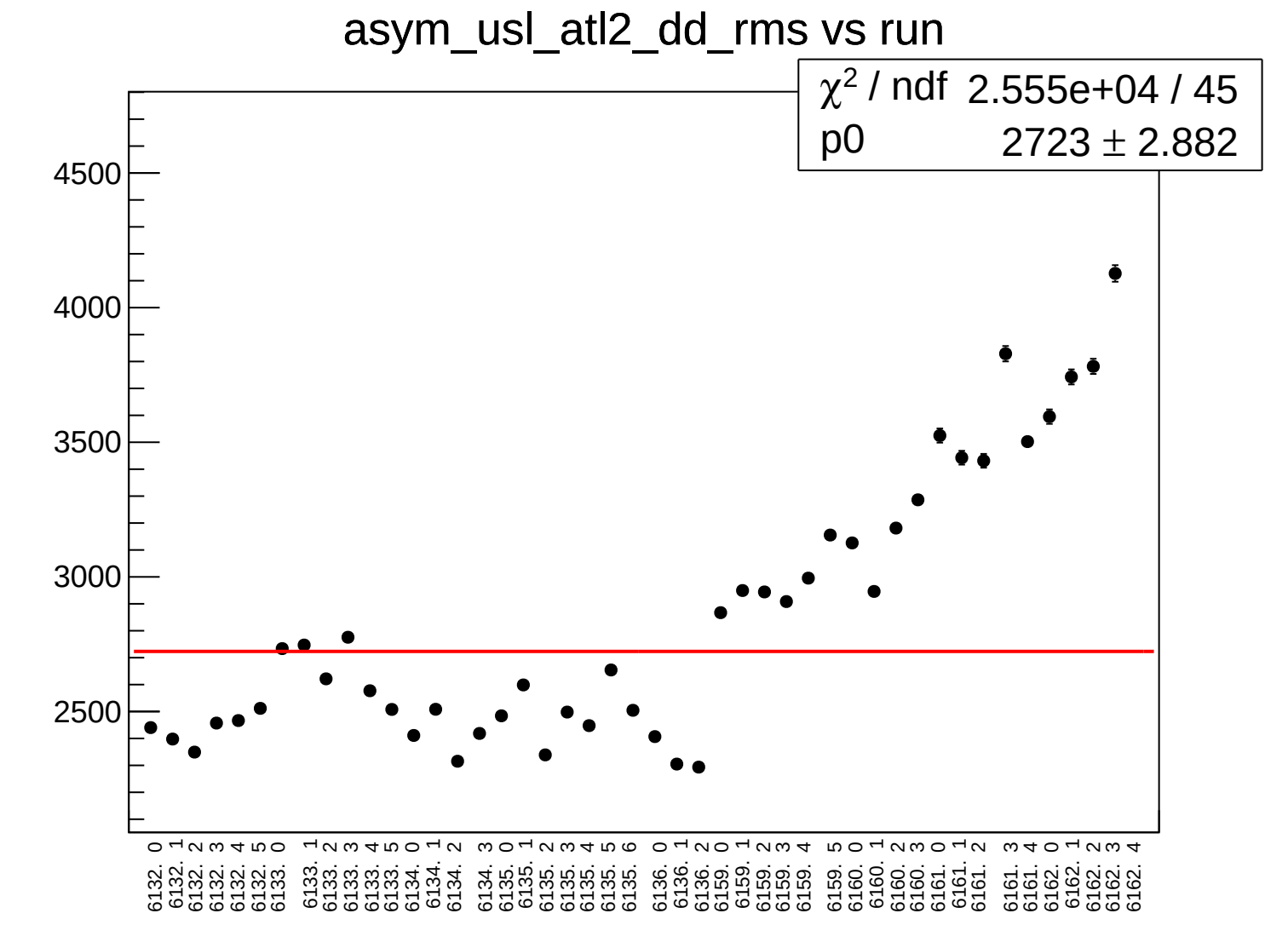
6136. 1
6136. 2
6136. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 199.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

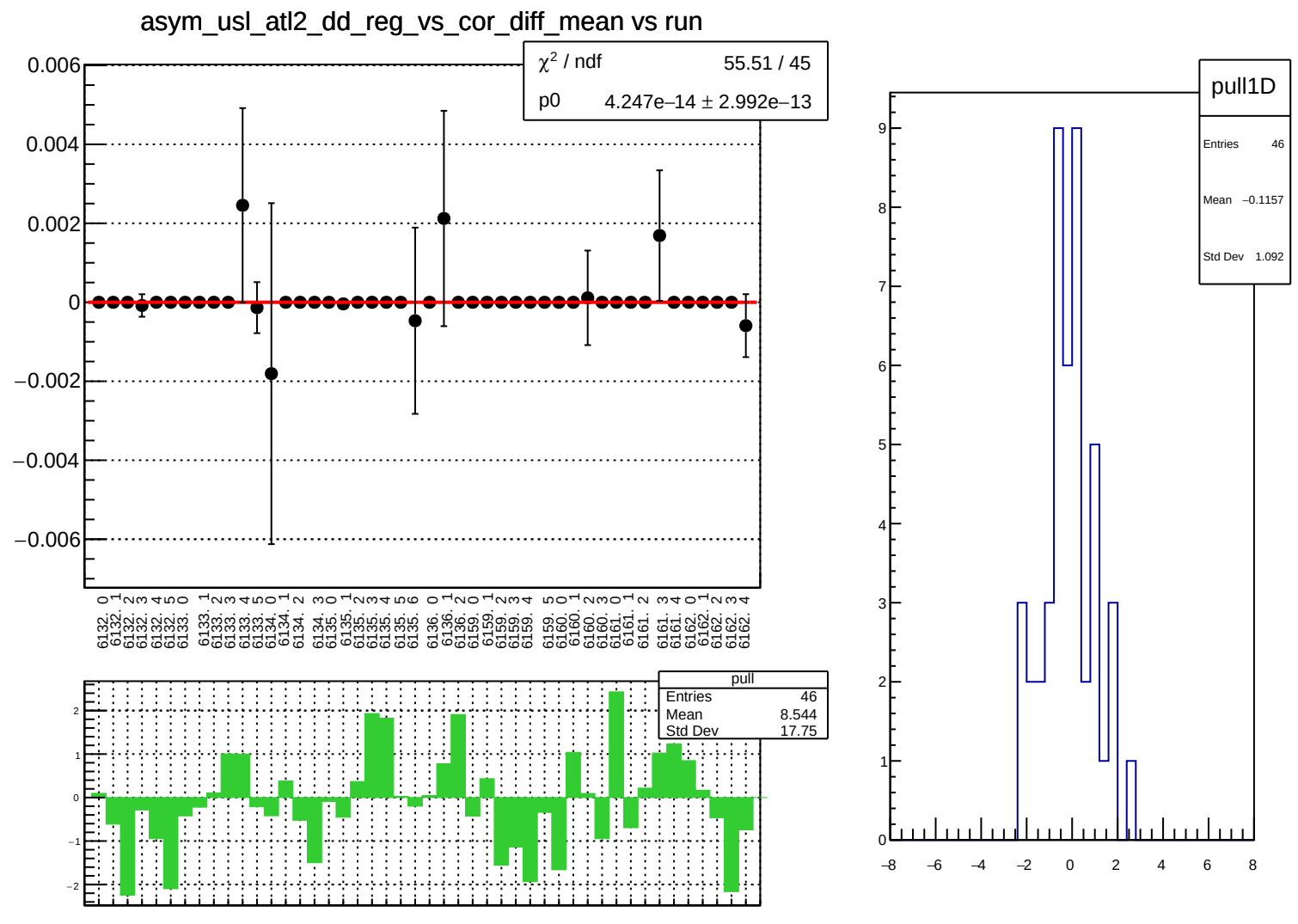

pull1D
Entries 46
Mean 0.02612
Std Dev 1.031
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

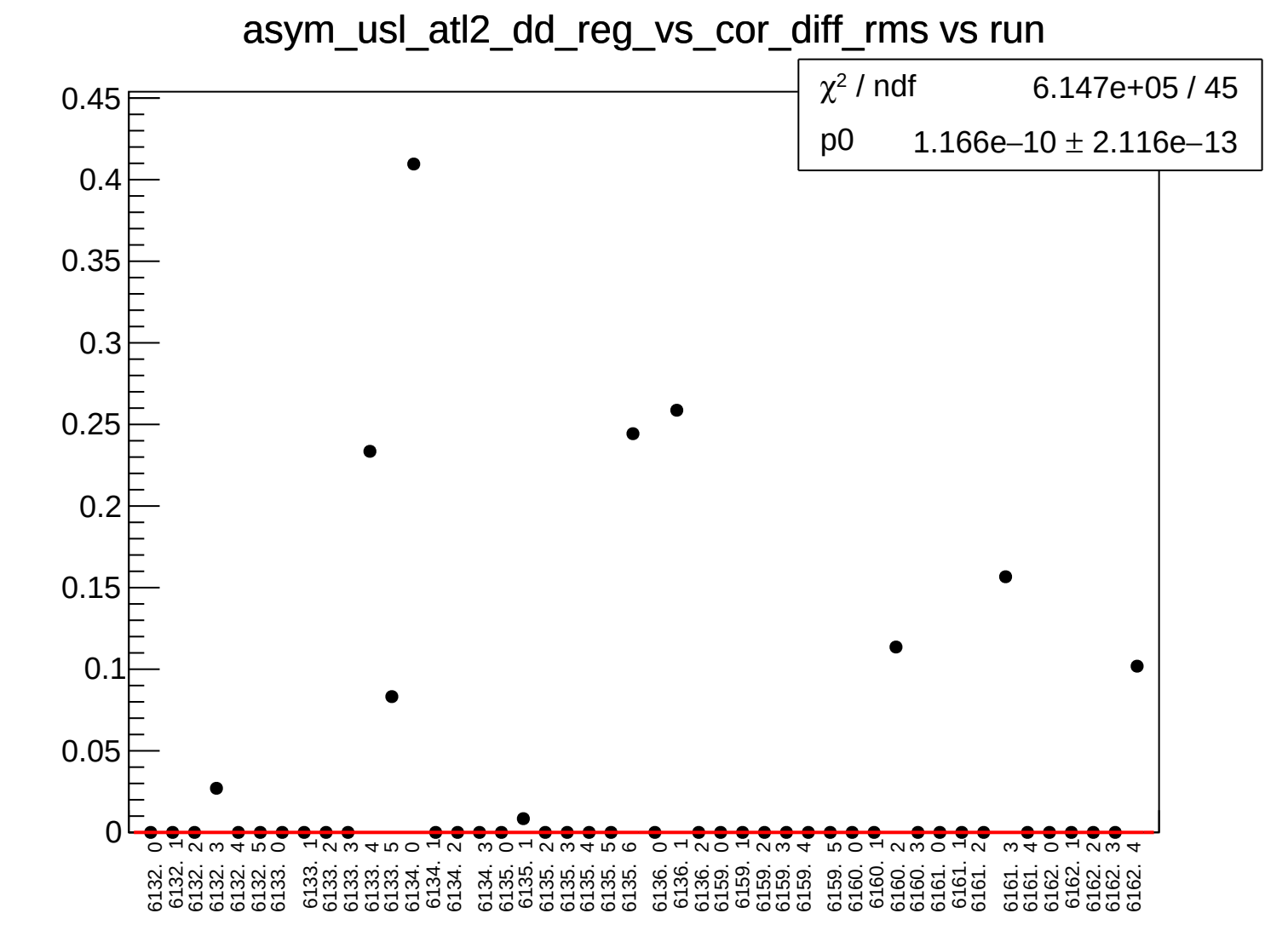

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.854e+04 / 45
p0 2585 ± 2.741
4500
4000
3500
3000
2500
2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

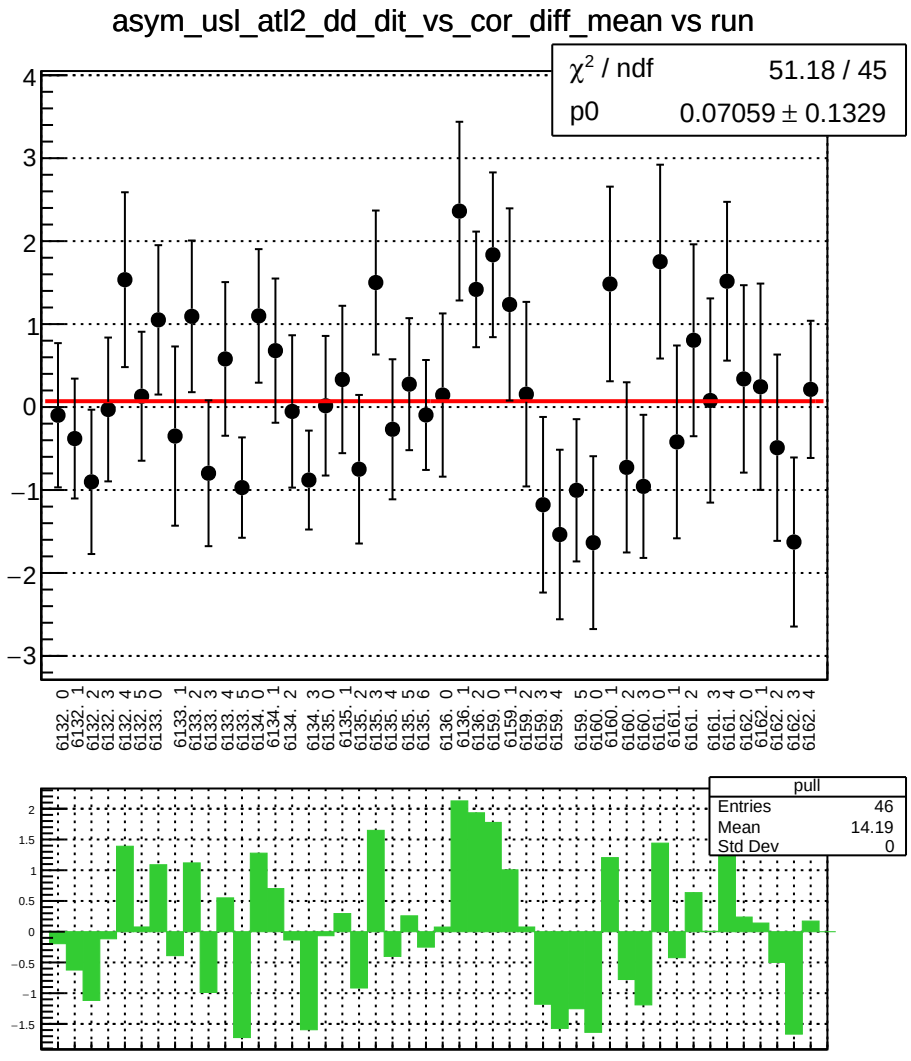

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 40.7 / 45
p0 1458 ± 4076
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 291.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

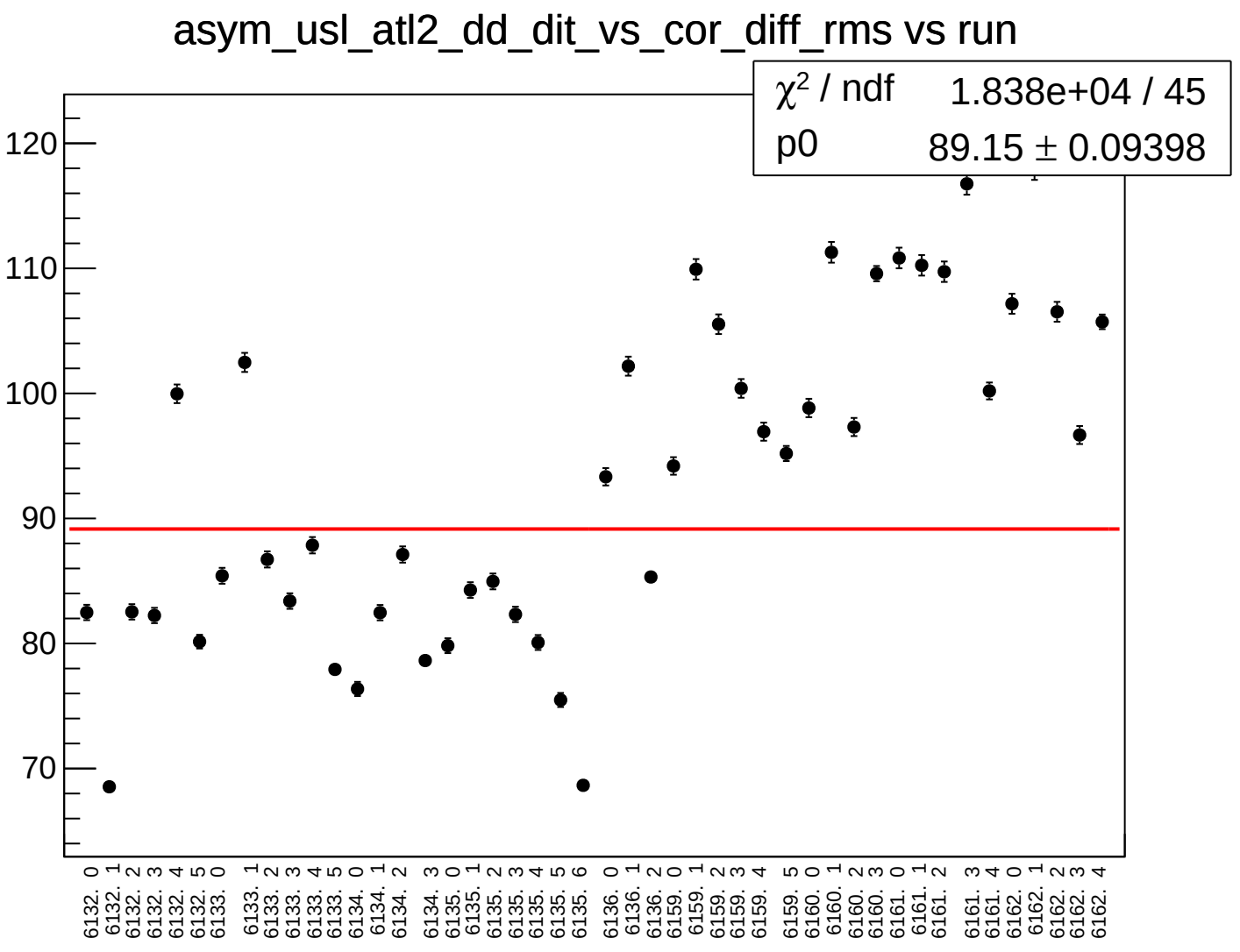

pull1D
Entries 46
Mean −0.01479
Std Dev 0.9405
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

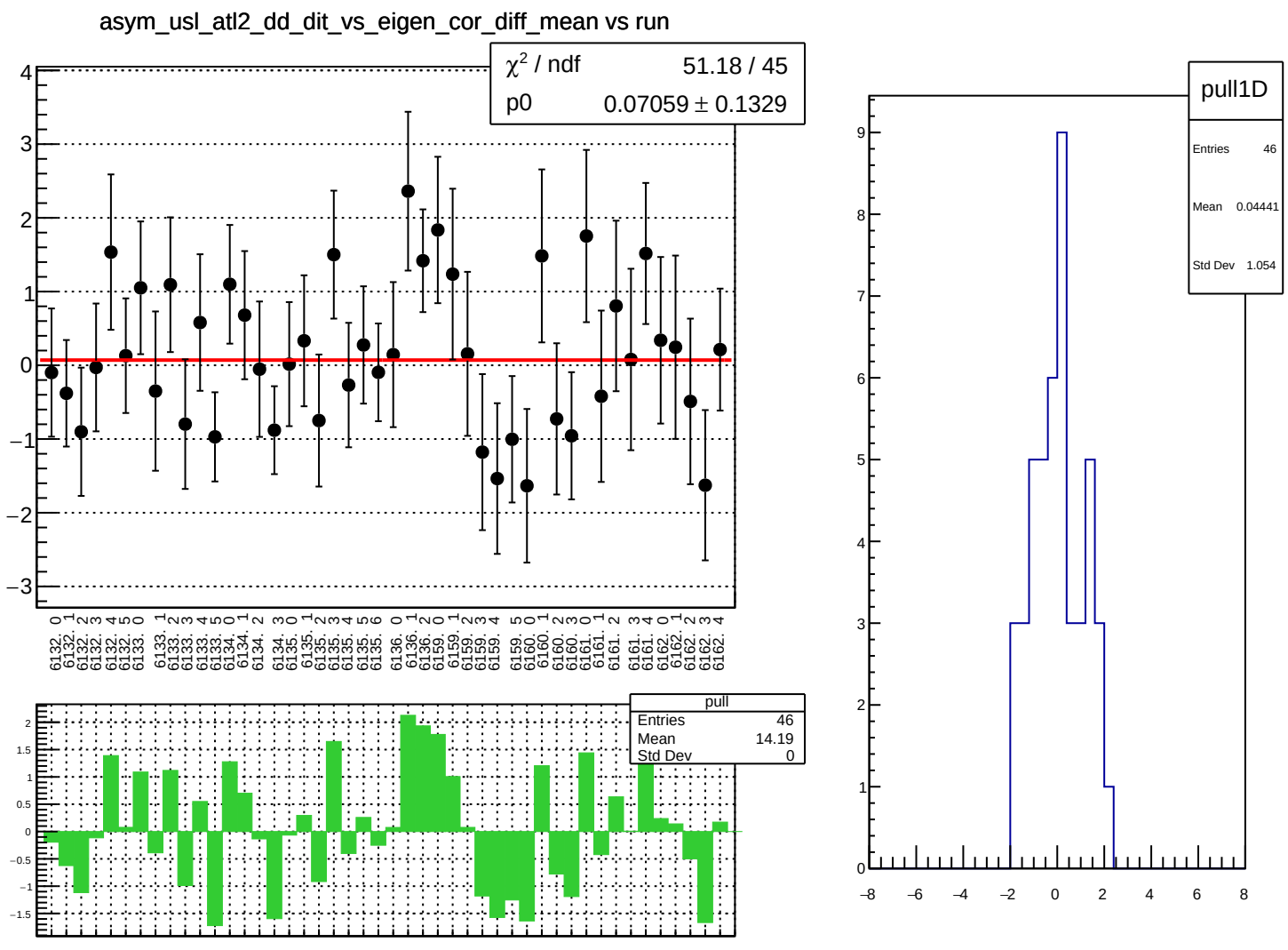

asym_usl_atl2_dd_rms vs run
χ² / ndf 2.555e+04 / 45
p0 2723 ± 2.882
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

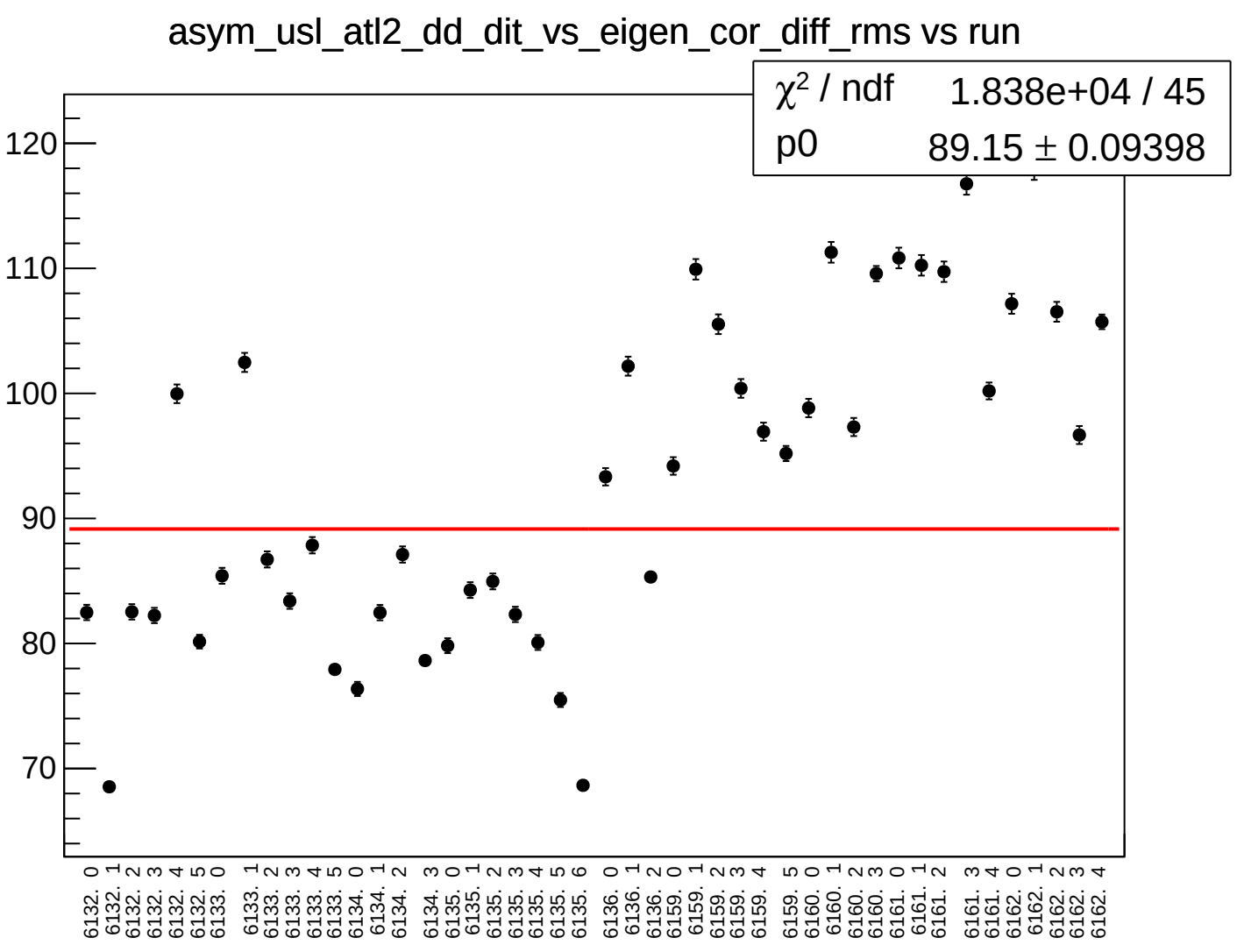

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 55.51 / 45
p0 4.247e−14 ± 2.992e−13
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 8.544
Std Dev 17.75
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.1157
Std Dev 1.092
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

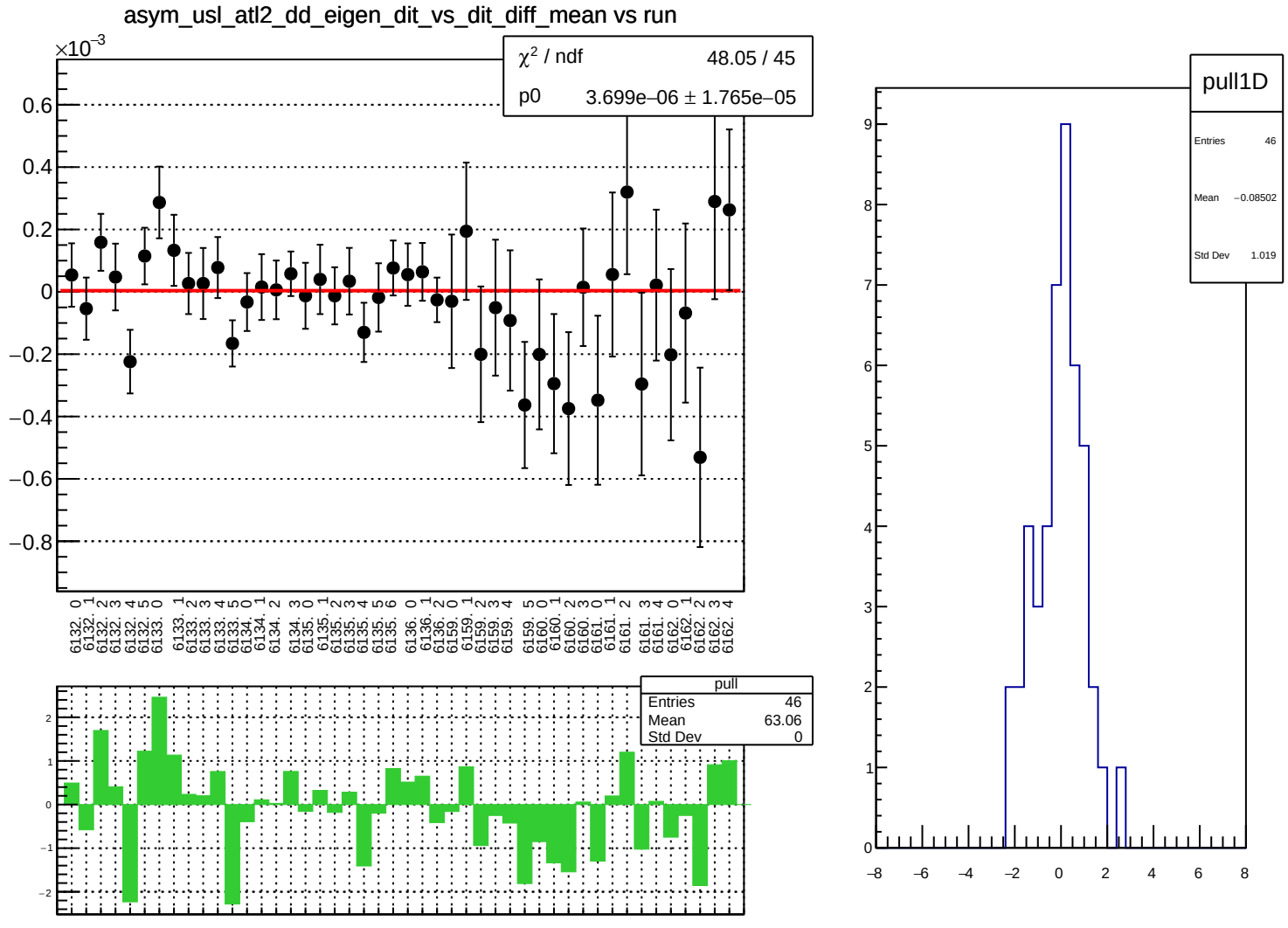

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.147e+05 / 45
p0 1.166e−10 ± 2.116e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

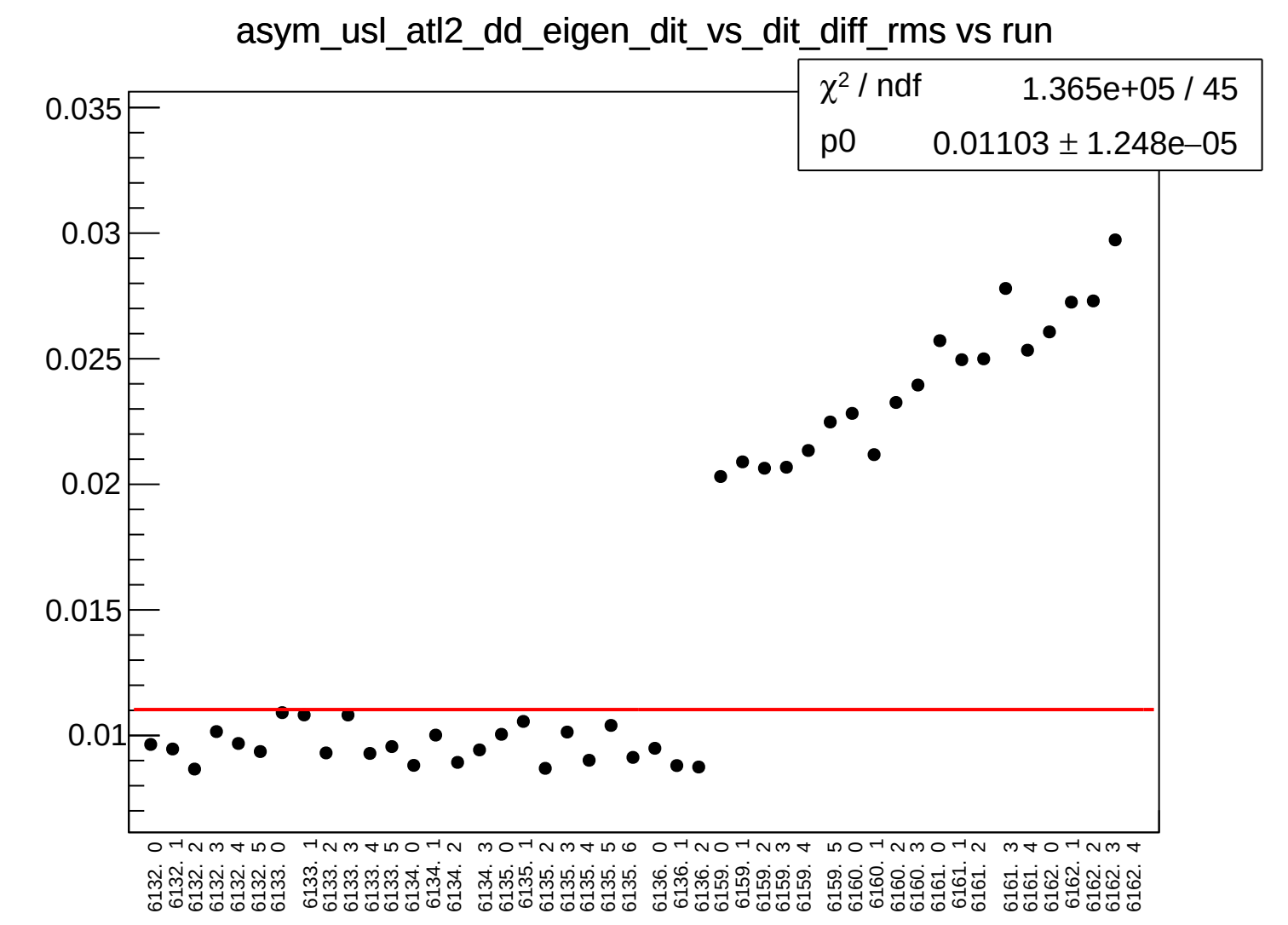

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 51.18 / 45
p0 0.07059 ± 0.1329
pull
Entries 46
Mean 14.19
Std Dev 0
pull1D
Entries 46
Mean 0.04441
Std Dev 1.054

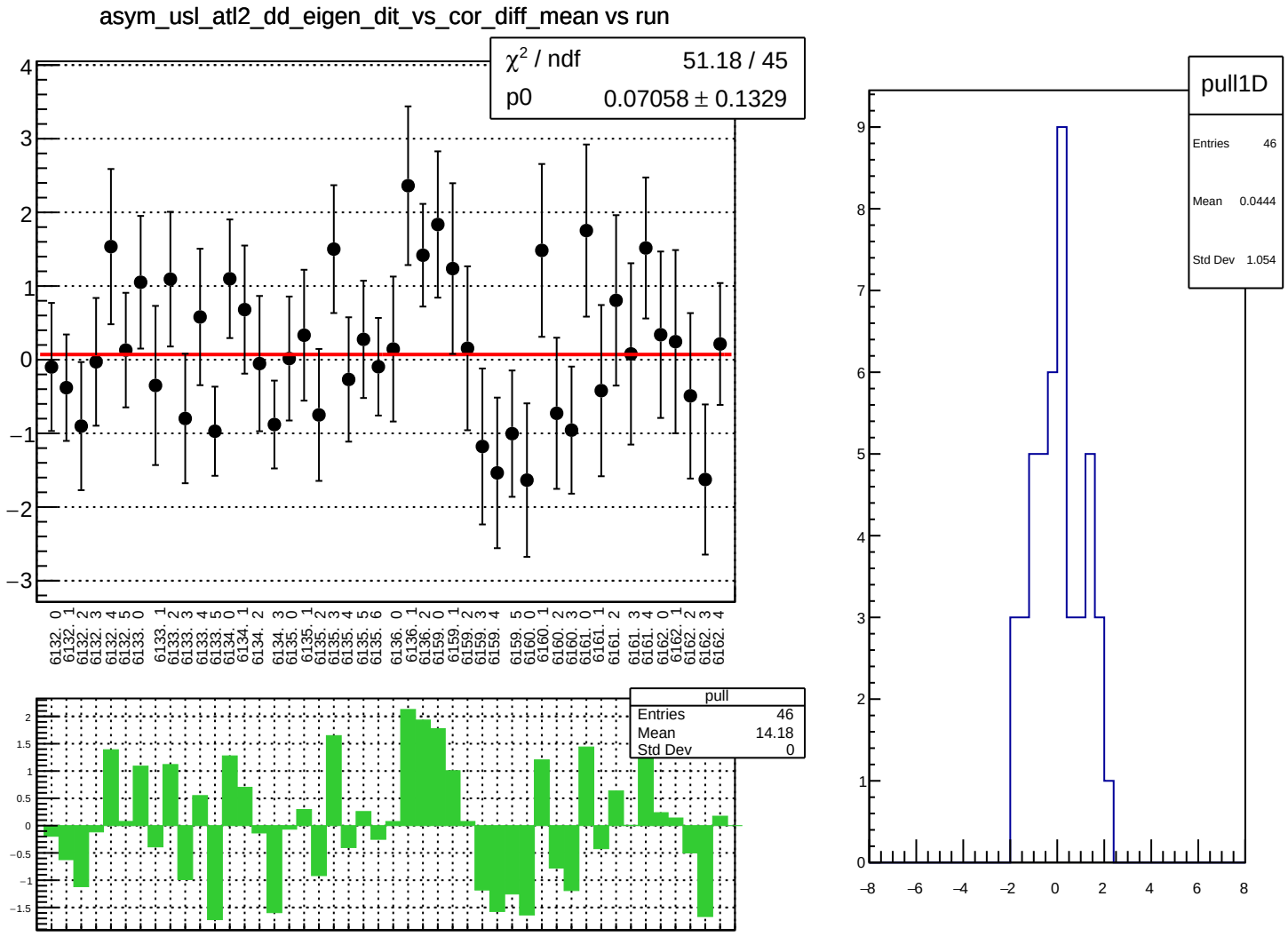

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.838e+04 / 45
p0 89.15 ± 0.09398
120
110
100
90
80
70
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

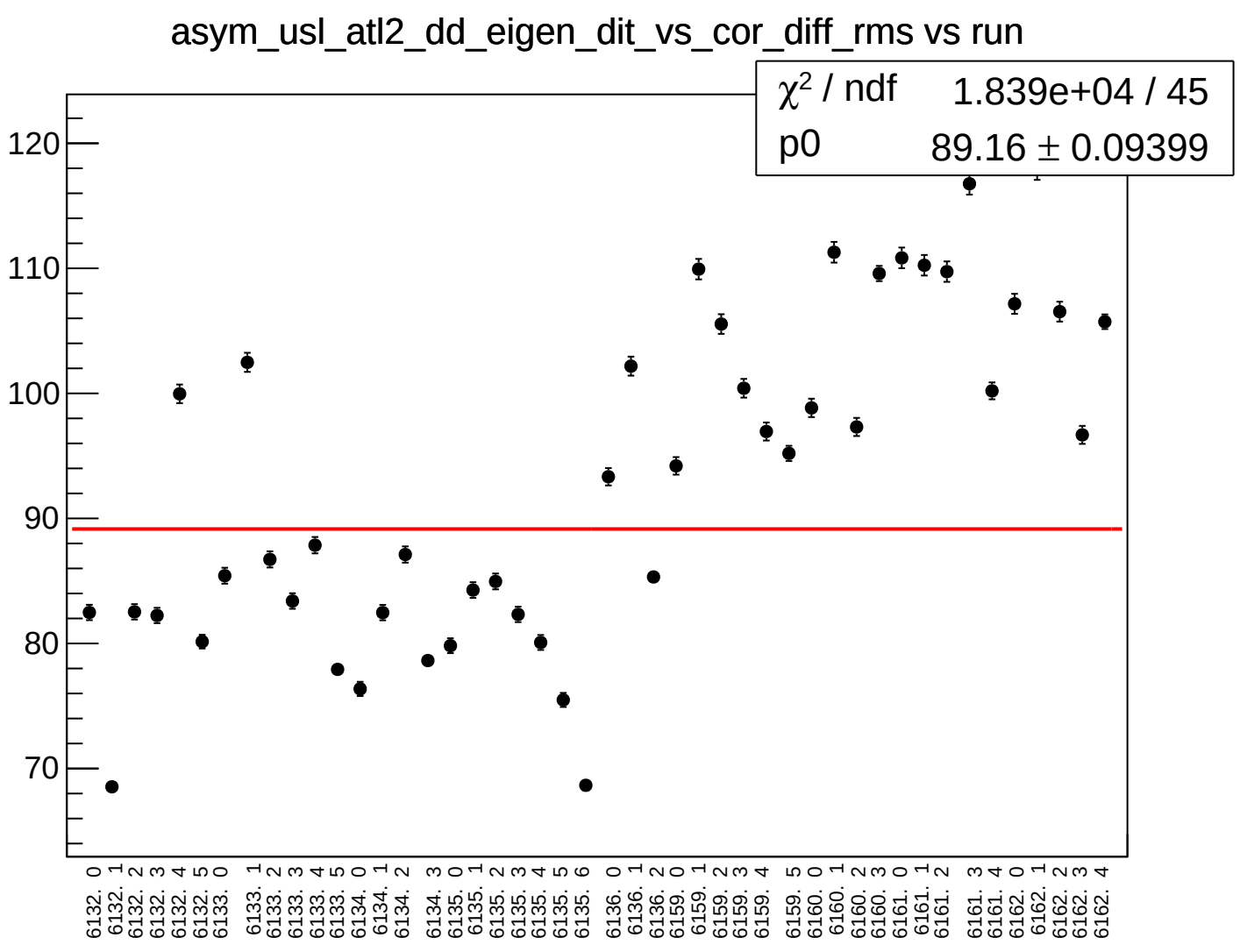

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.18 / 45
p0 0.07059 ± 0.1329
pull
Entries 46
Mean 14.19
Std Dev 0
pull1D
Entries 46
Mean 0.04441
Std Dev 1.054


asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.838e+04 / 45
p0 89.15 ± 0.09398
120
110
100
90
80
70
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 48.05 / 45
p0 3.699e−06 ± 1.765e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 63.06
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.08502
Std Dev 1.019
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.365e+05 / 45
p0 0.01103 ± 1.248e–05
0.035
0.03
0.025
0.02
0.015
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 51.18 / 45
p0 0.07058 ± 0.1329
pull
Entries 46
Mean 14.18
Std Dev 0
pull1D
Entries 46
Mean 0.0444
Std Dev 1.054


asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.839e+04 / 45
p0 89.16 ± 0.09399
120
110
100
90
80
70
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
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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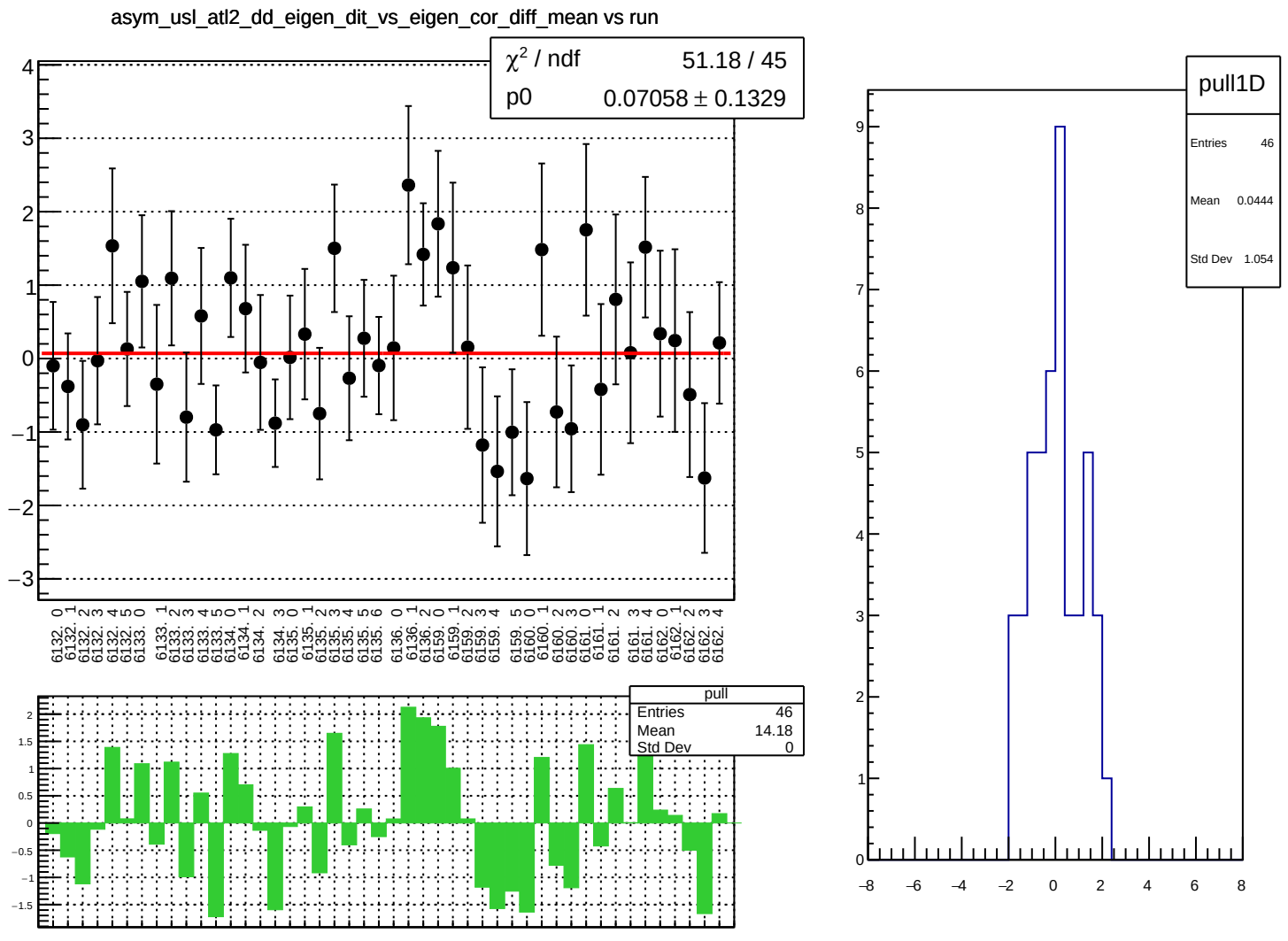
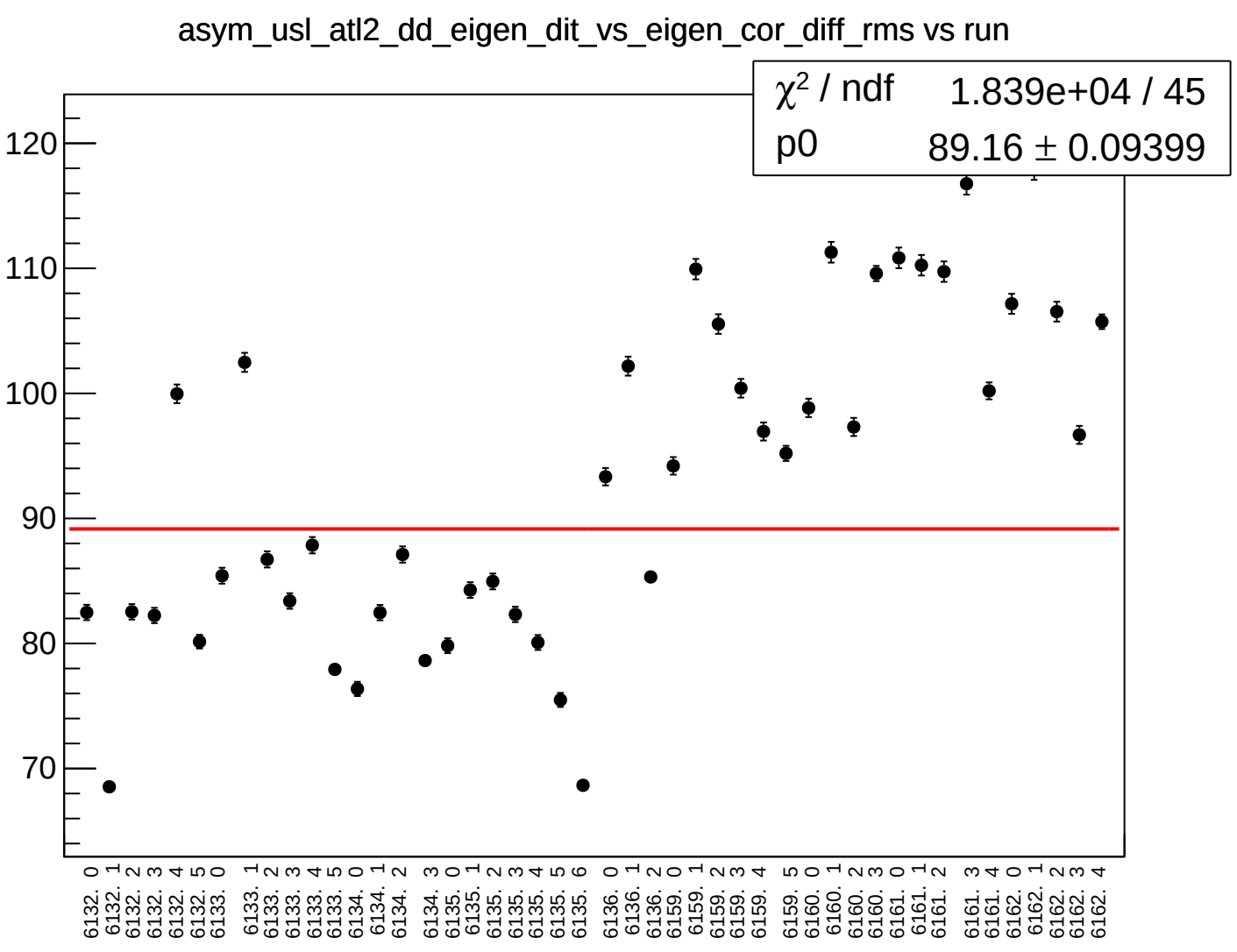
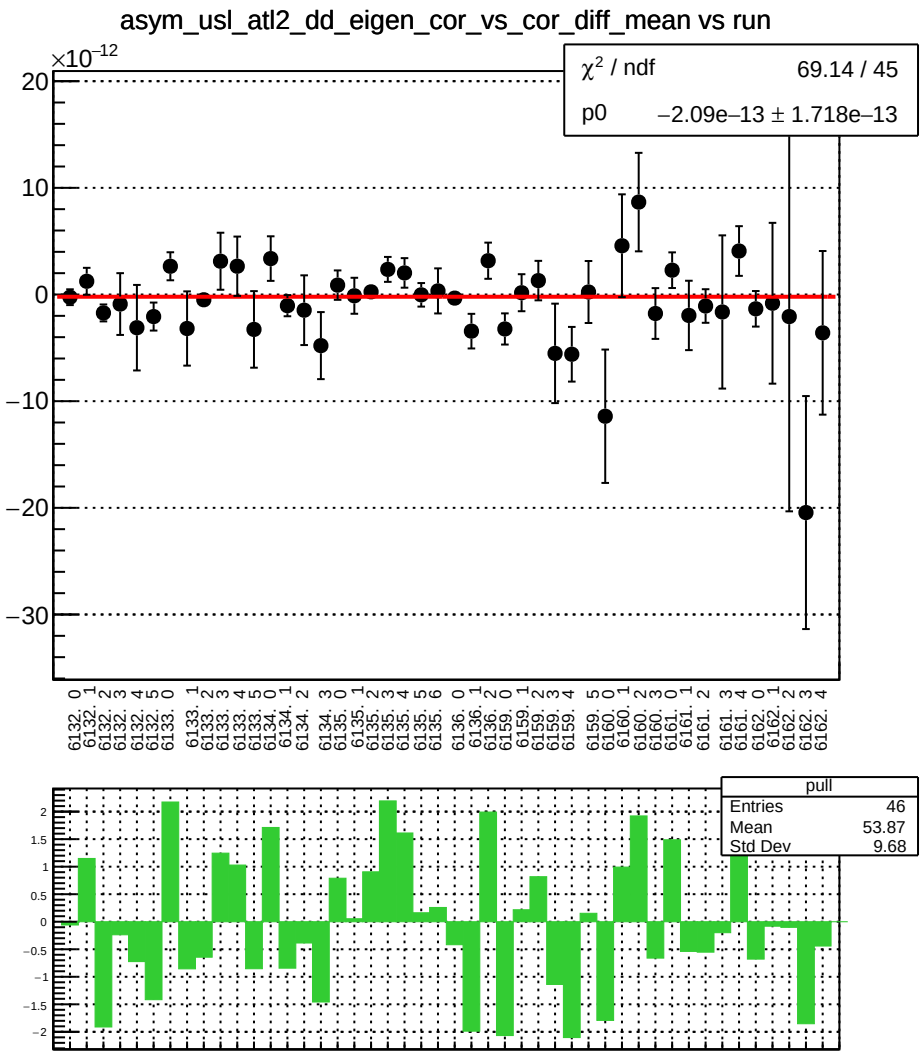
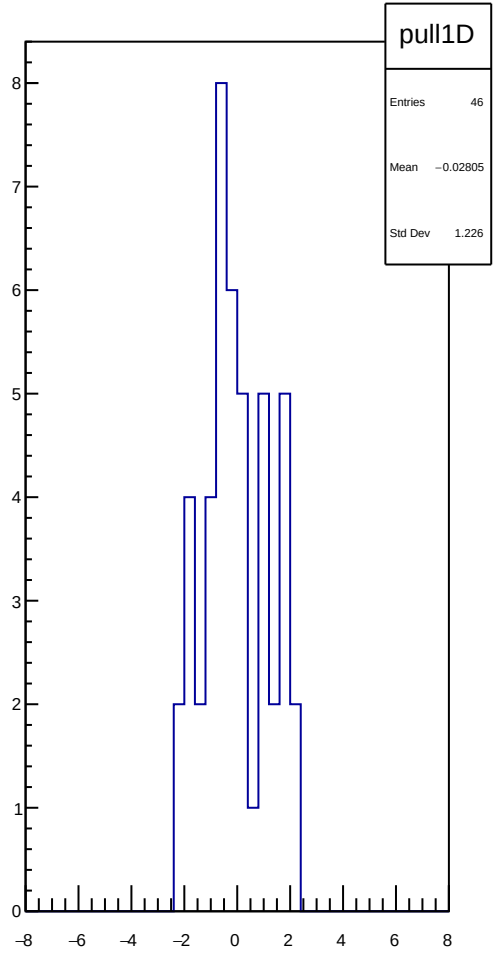
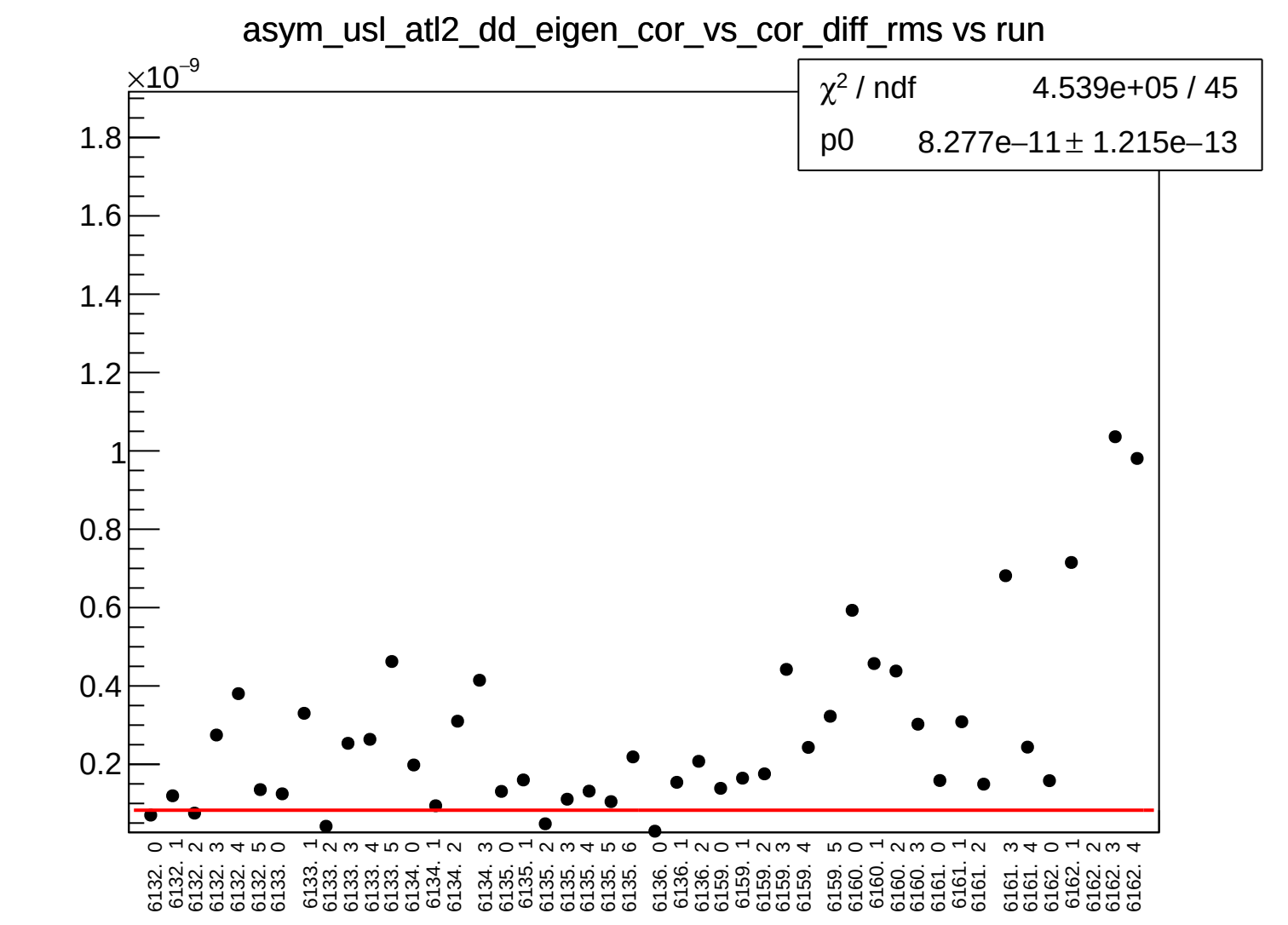
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

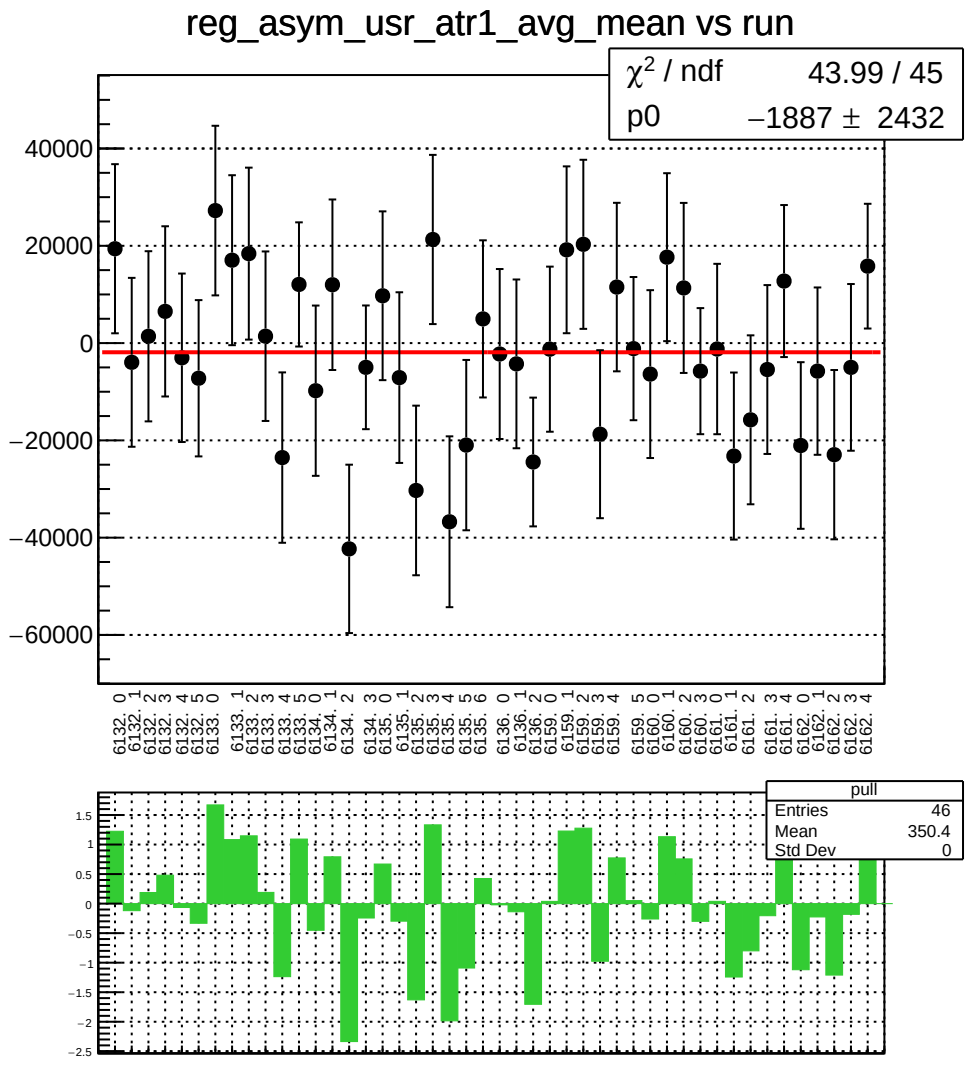

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.18 / 45
p0 0.07058 ± 0.1329
pull
Entries 46
Mean 14.18
Std Dev 0
pull1D
Entries 46
Mean 0.0444
Std Dev 1.054


asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.839e+04 / 45
p0 89.16 ± 0.09399
120
110
100
90
80
70
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 69.14 / 45
p0 −2.09e−13 ± 1.718e−13
pull
Entries 46
Mean 53.87
Std Dev 9.68


pull1D
Entries 46
Mean −0.02805
Std Dev 1.226


asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.539e+05 / 45
p0 8.277e−11 ± 1.215e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 43.99 / 45
p0 −1887 ± 2432
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
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6134. 0
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
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6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
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6160. 2
6160. 3
6161. 0
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6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
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6162. 4
pull
Entries 46
Mean 350.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.00556
Std Dev 0.9779
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10
8
6
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2
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−8
−6
−4
−2
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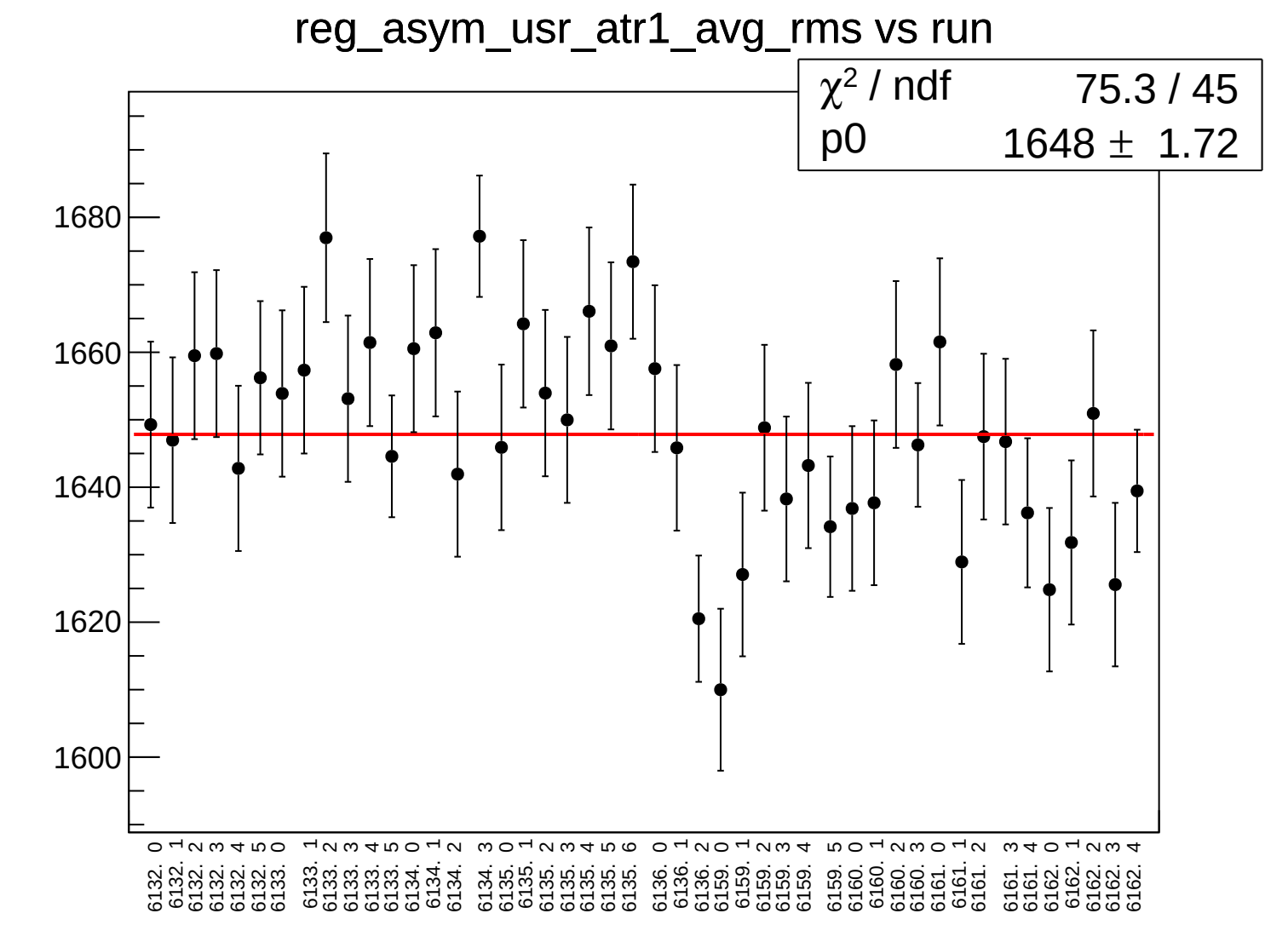
6
8


reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 75.3 / 45
p0 1648 ± 1.72
1680
1660
1640
1620
1600
6132. 0
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6132. 5
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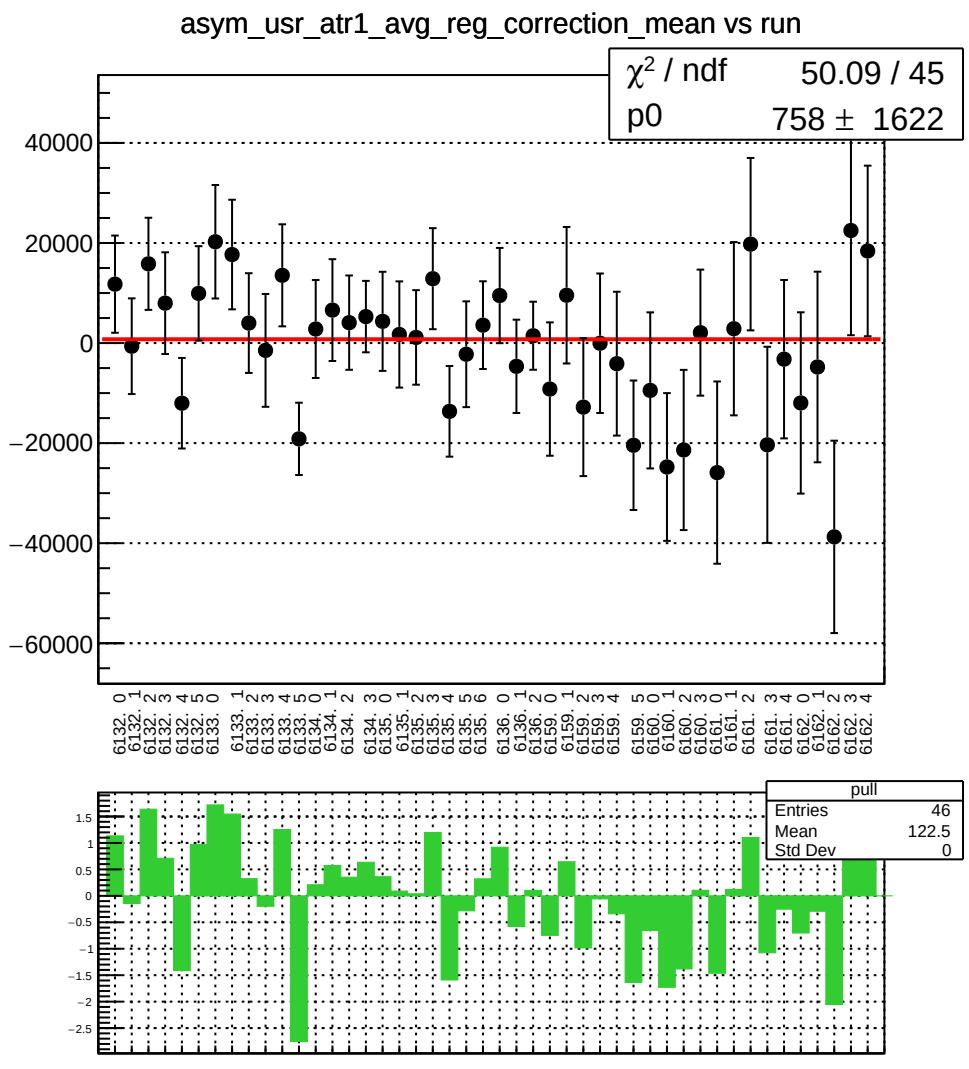
asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 50.09 / 45
p0 758 ± 1622
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20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 2
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6133. 5
6134. 0
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6136. 2
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6159. 2
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6159. 4
6159. 5
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6160. 1
6160. 2
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6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 122.5
Std Dev 0
1.5
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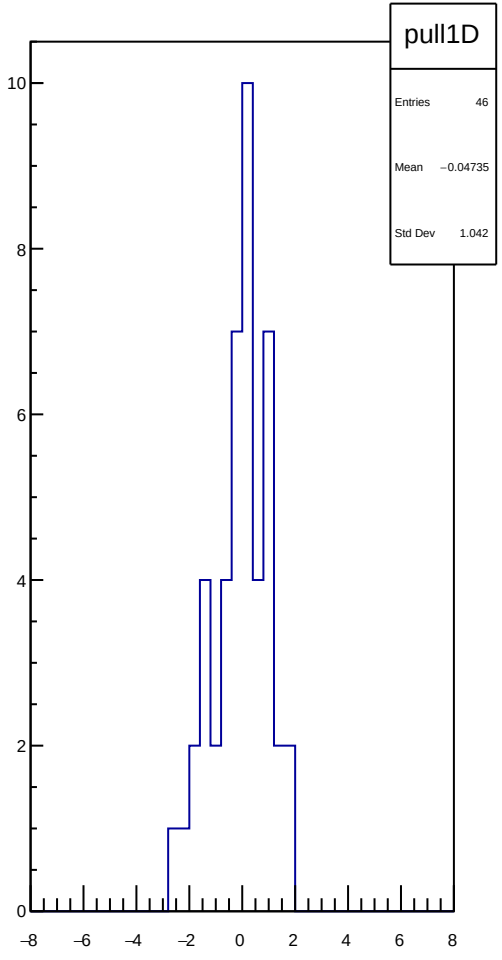
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.04735
Std Dev 1.042
10
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2
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−8
−6
−4
−2
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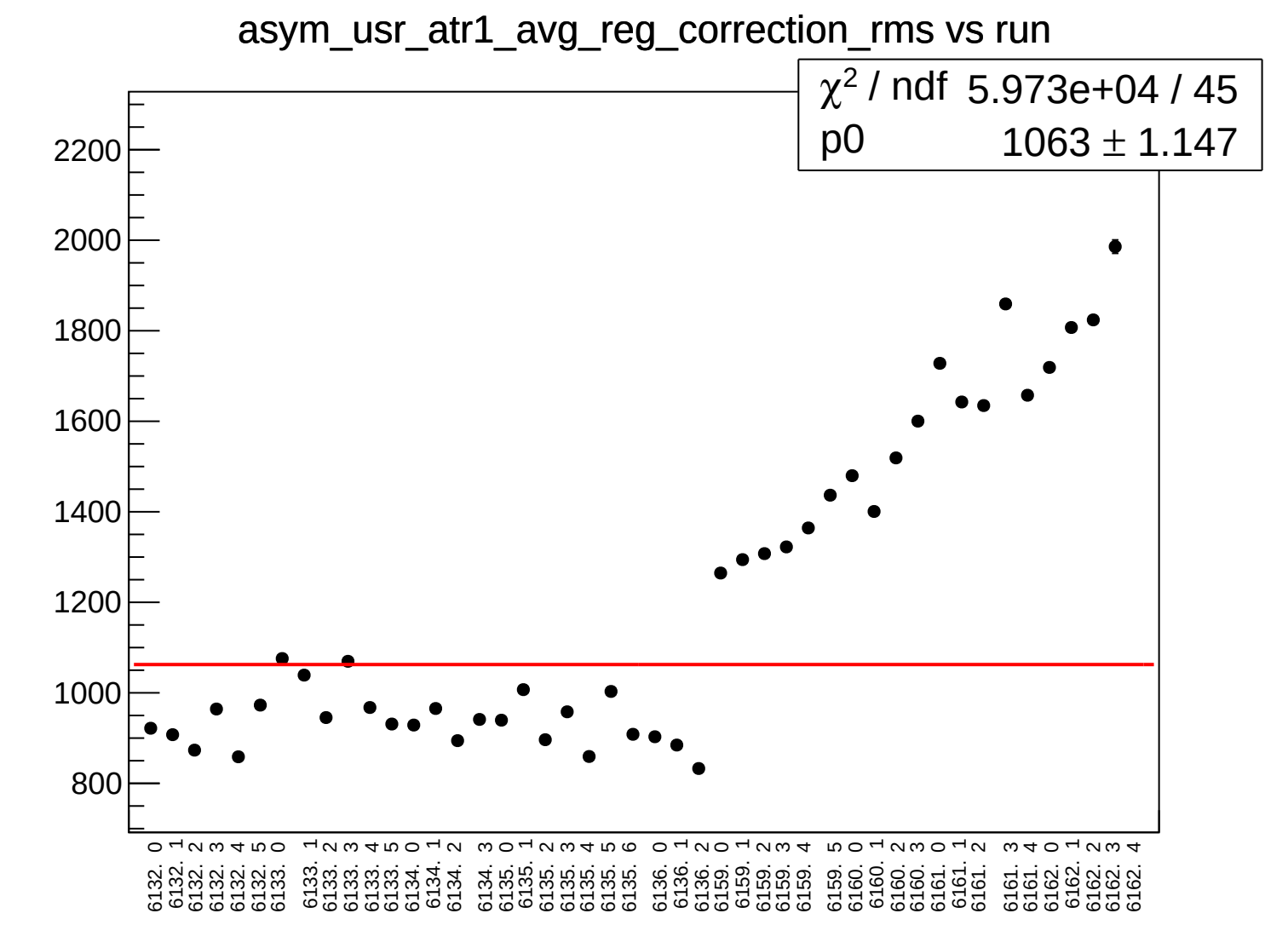
2
4
6
8


asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 5.973e+04 / 45
p0 1063 ± 1.147
2200
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1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
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6133. 5
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6134. 1
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6159. 1
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6159. 5
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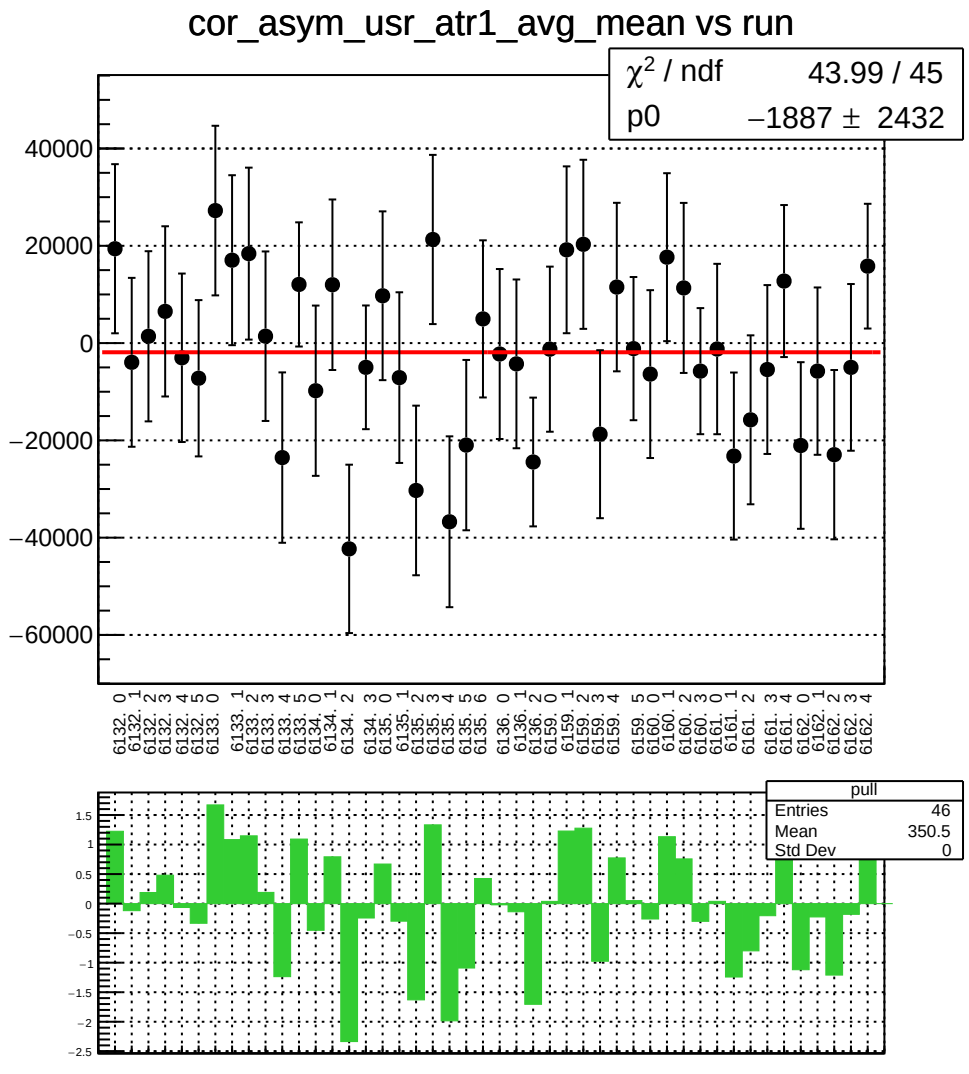
6162. 4


cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 43.99 / 45
p0 −1887 ± 2432
40000
20000
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−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 3
6133. 4
6133. 5
6134. 0
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6134. 2
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6135. 6
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6161. 4
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pull
Entries 46
Mean 350.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.00556
Std Dev 0.9779
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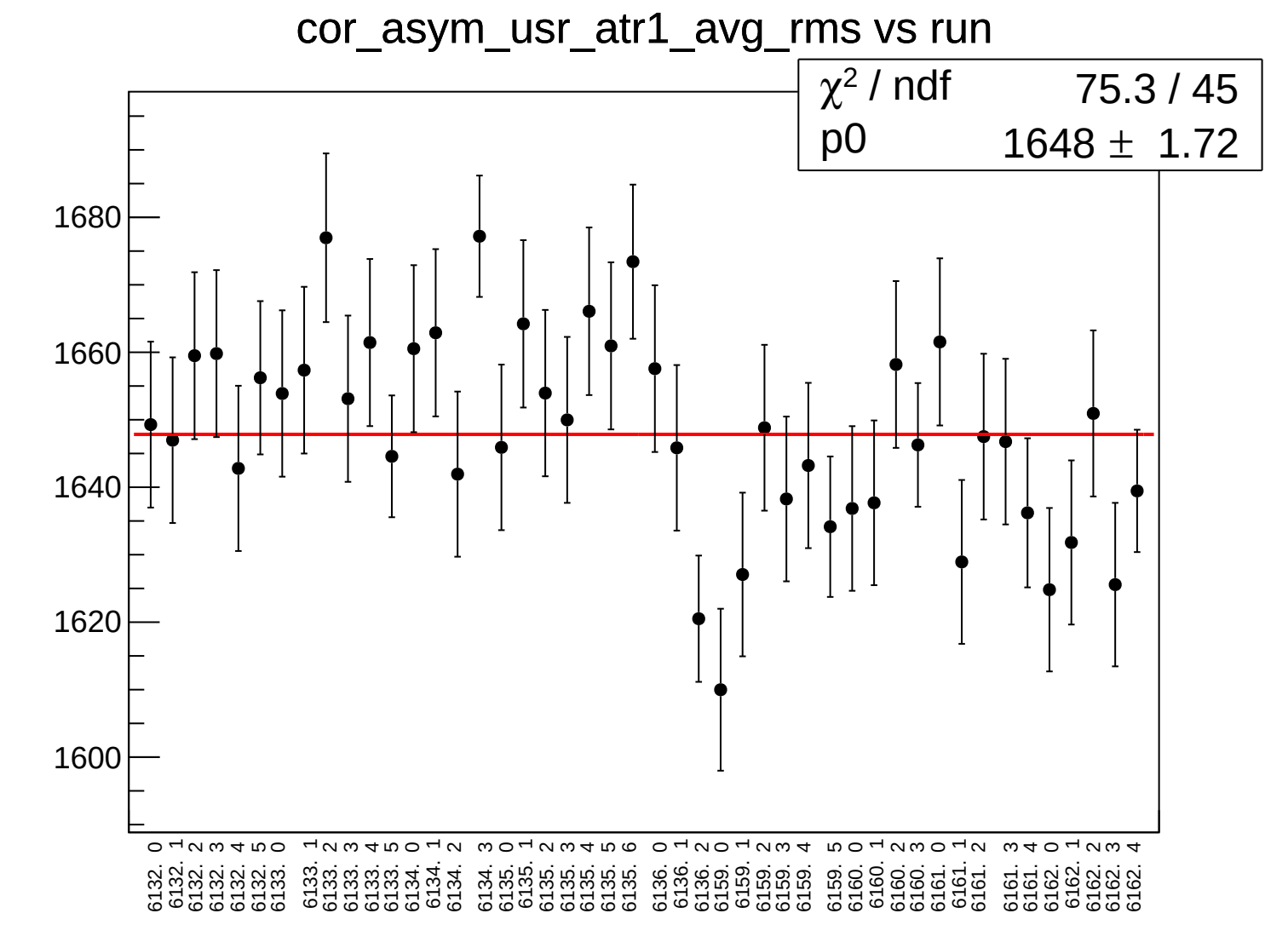
cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 75.3 / 45
p0 1648 ± 1.72
1680
1660
1640
1620
1600
6132. 0
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6132. 2
6132. 3
6132. 4
6132. 5
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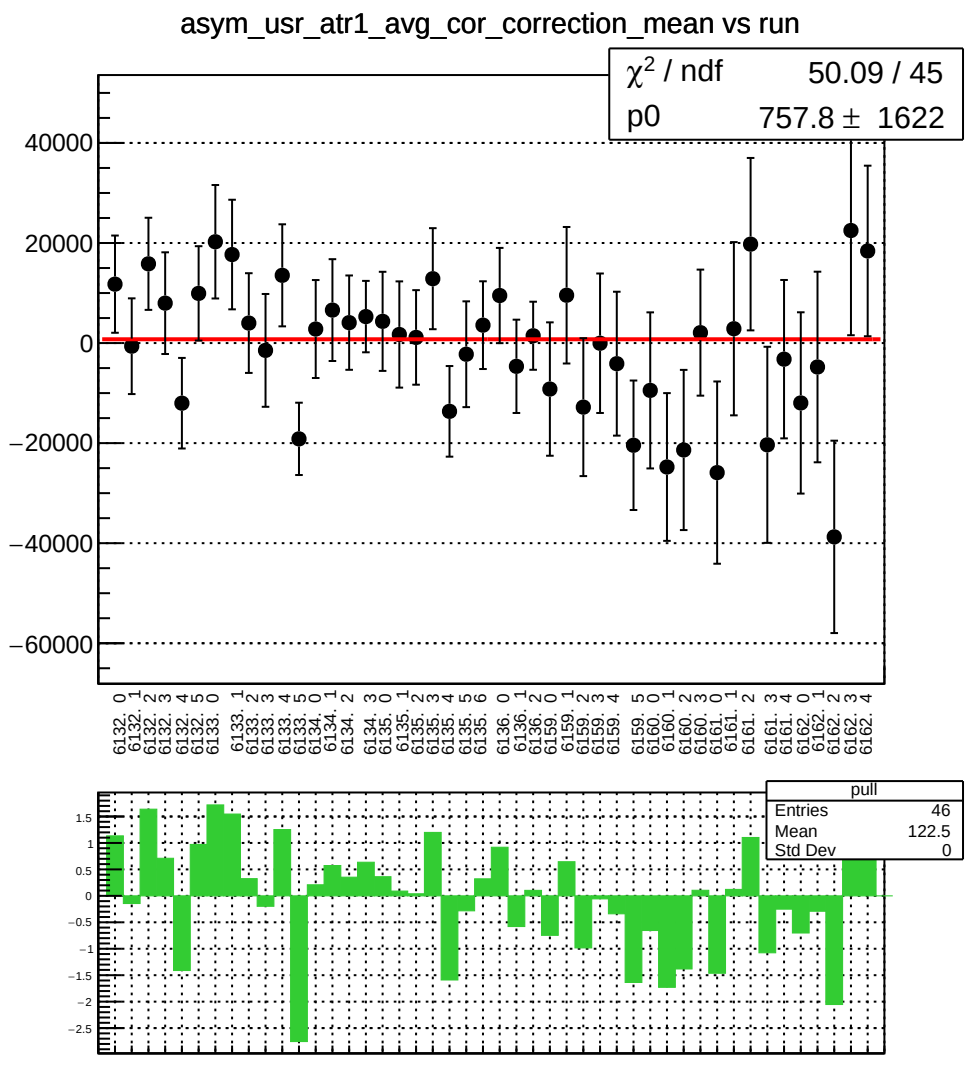
asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 50.09 / 45
p0 757.8 ± 1622
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6135. 2
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6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 122.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.04735
Std Dev 1.042
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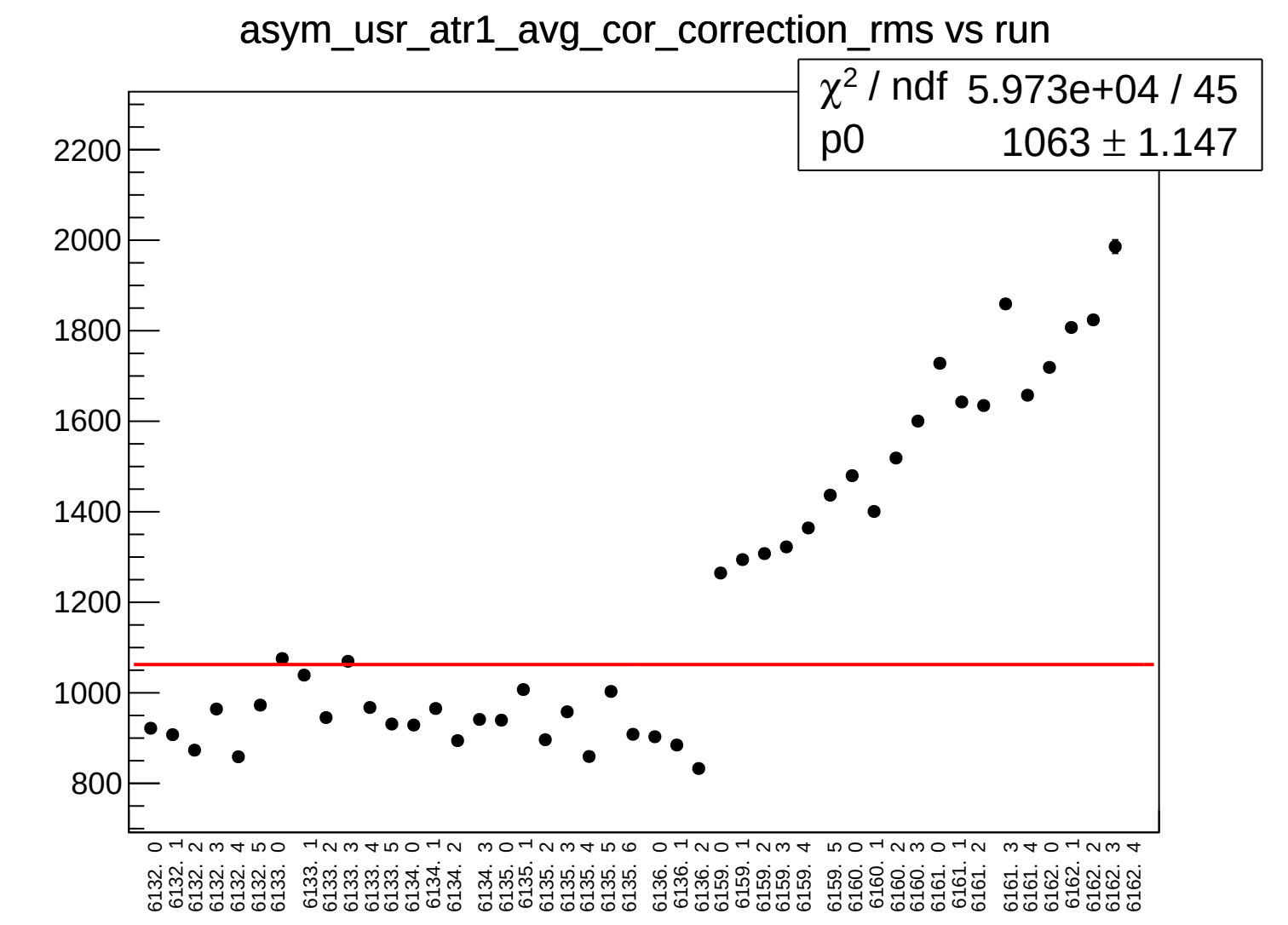
asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 5.973e+04 / 45
p0 1063 ± 1.147
2200
2000
1800
1600
1400
1200
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6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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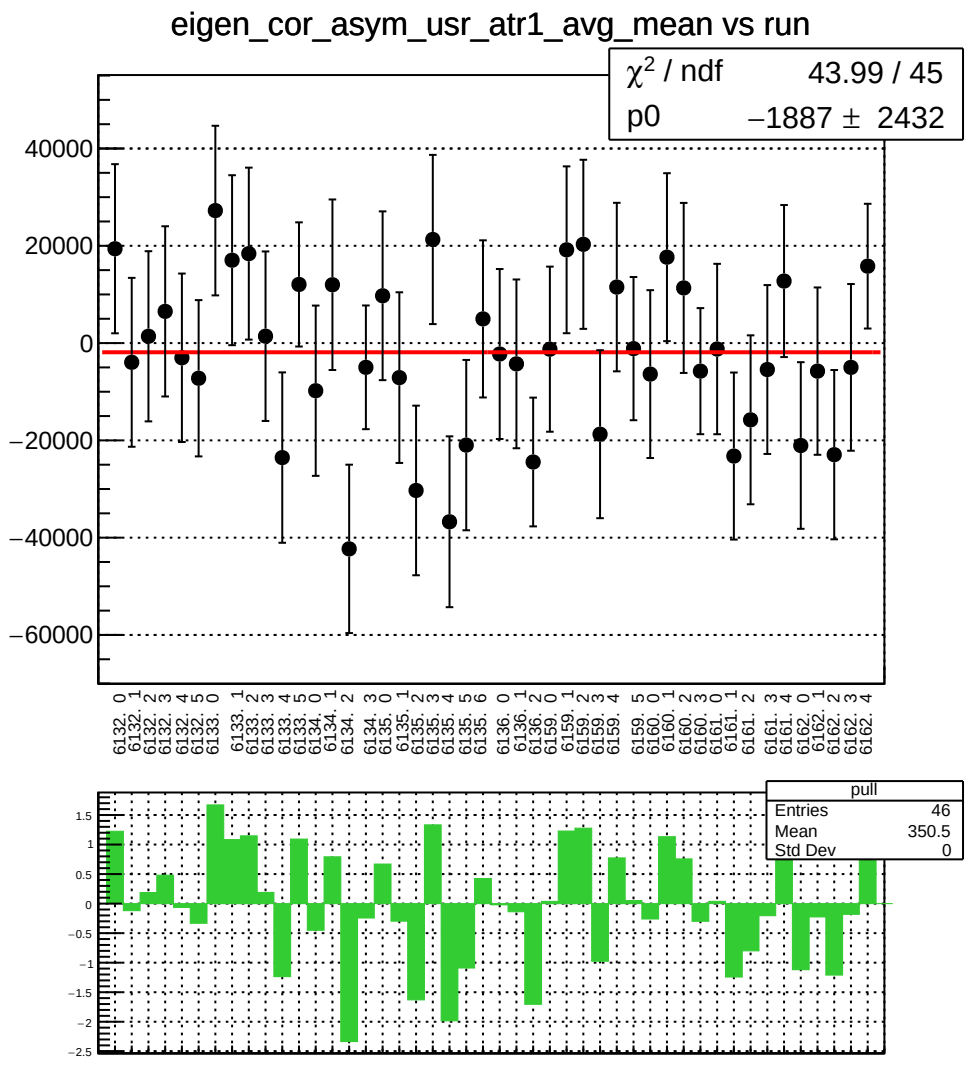
6162. 4


eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 43.99 / 45
p0 −1887 ± 2432
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6161. 4
6162. 0
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6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 350.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.00556
Std Dev 0.9779
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10
8
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2
0
−8
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−4
−2
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6
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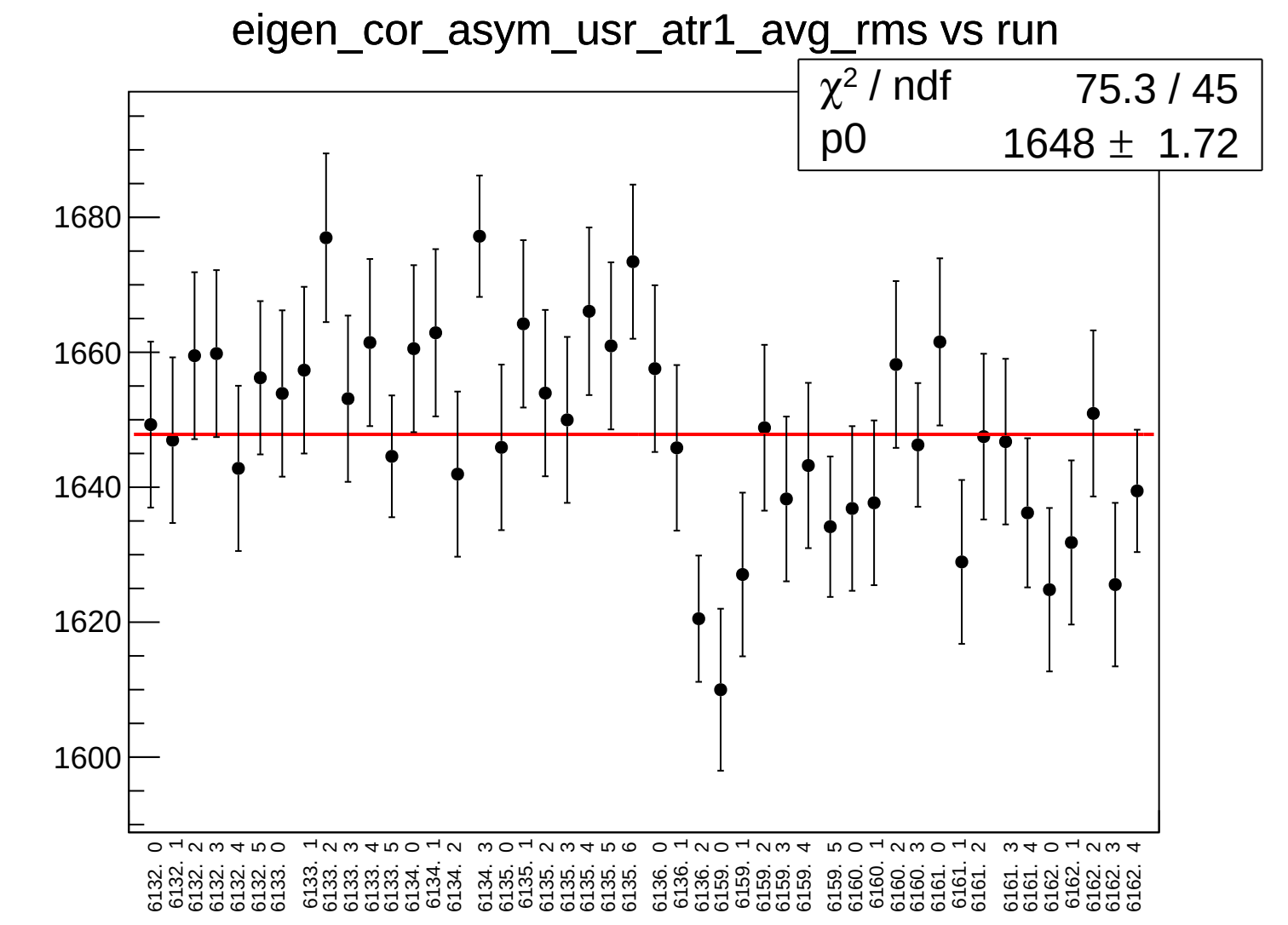
eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 75.3 / 45
p0 1648 ± 1.72
1680
1660
1640
1620
1600
6132. 0
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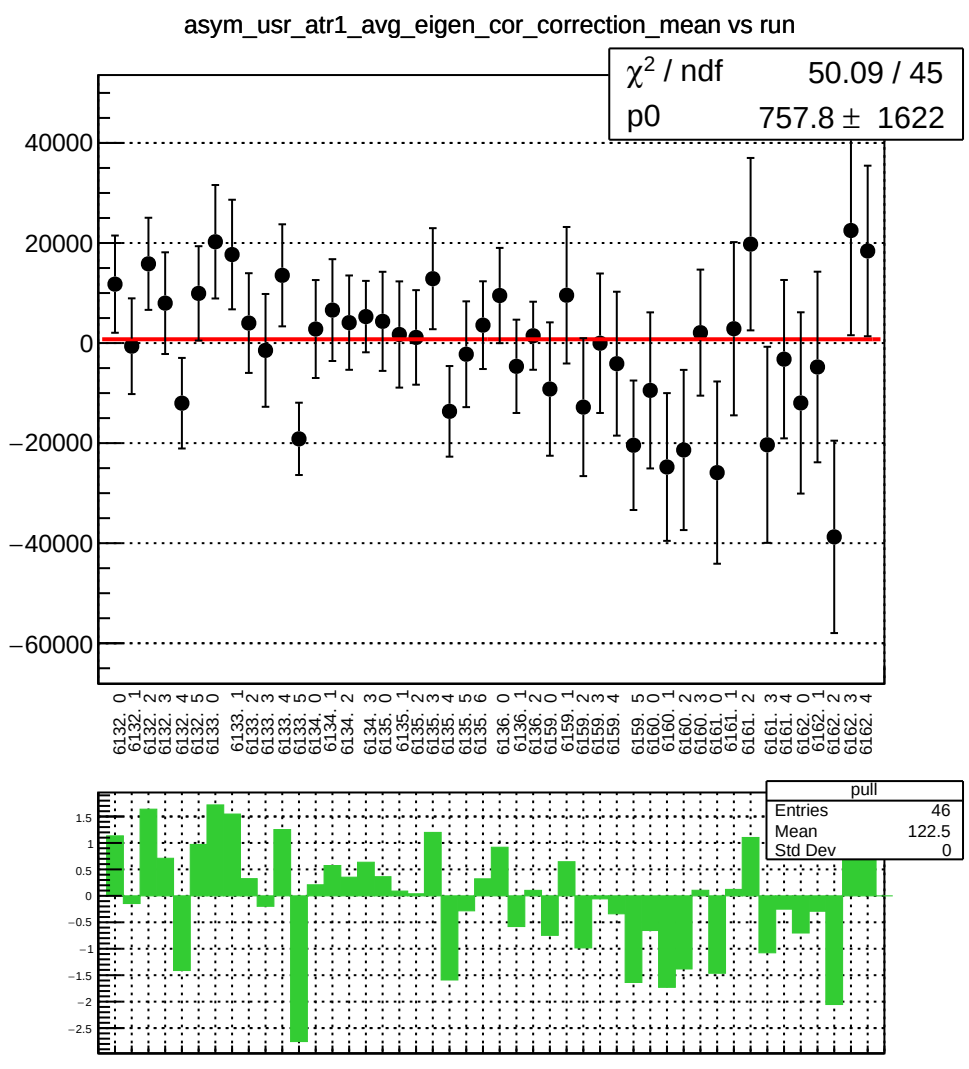
asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 50.09 / 45
p0 757.8 ± 1622
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
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6132. 4
6132. 5
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6162. 3
6162. 4
pull
Entries 46
Mean 122.5
Std Dev 0
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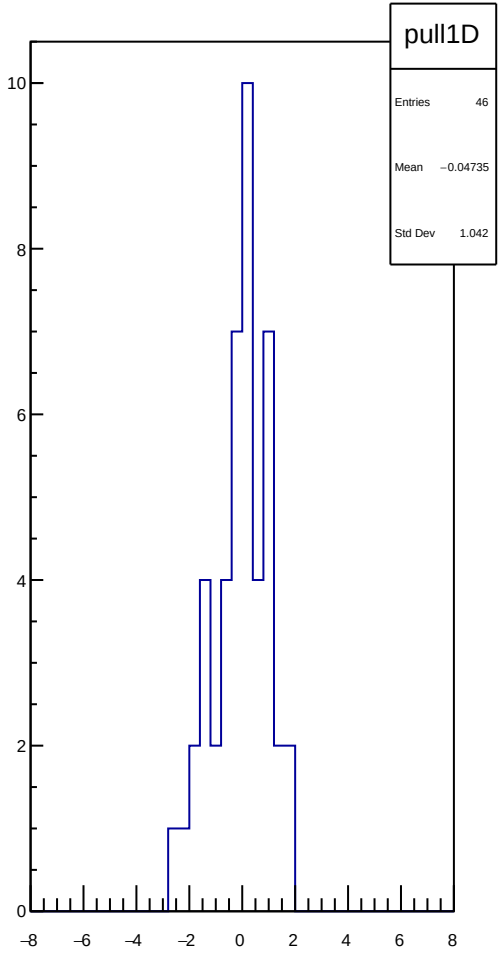
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.04735
Std Dev 1.042
10
8
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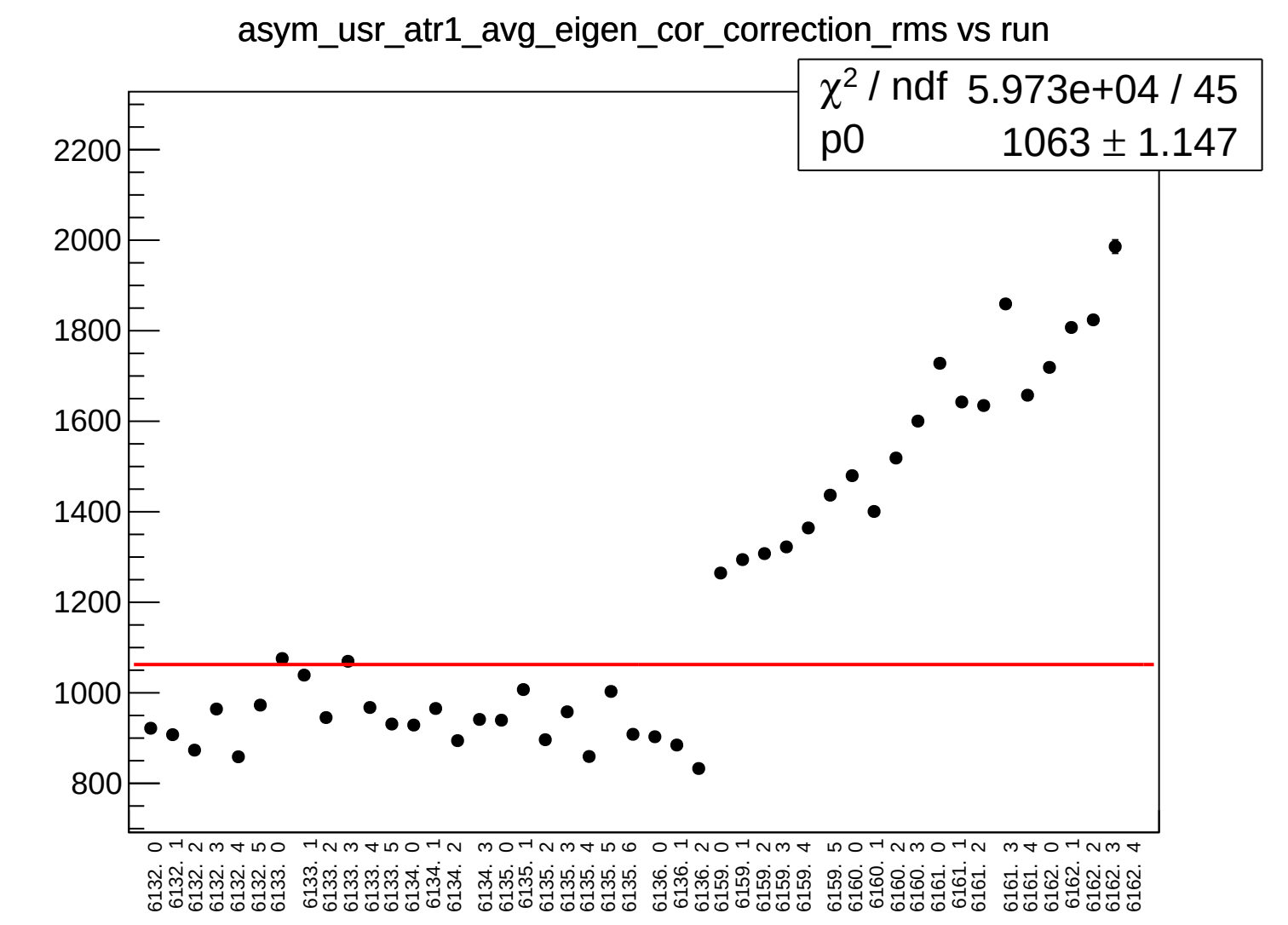
6
8


asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.973e+04 / 45
p0 1063 ± 1.147
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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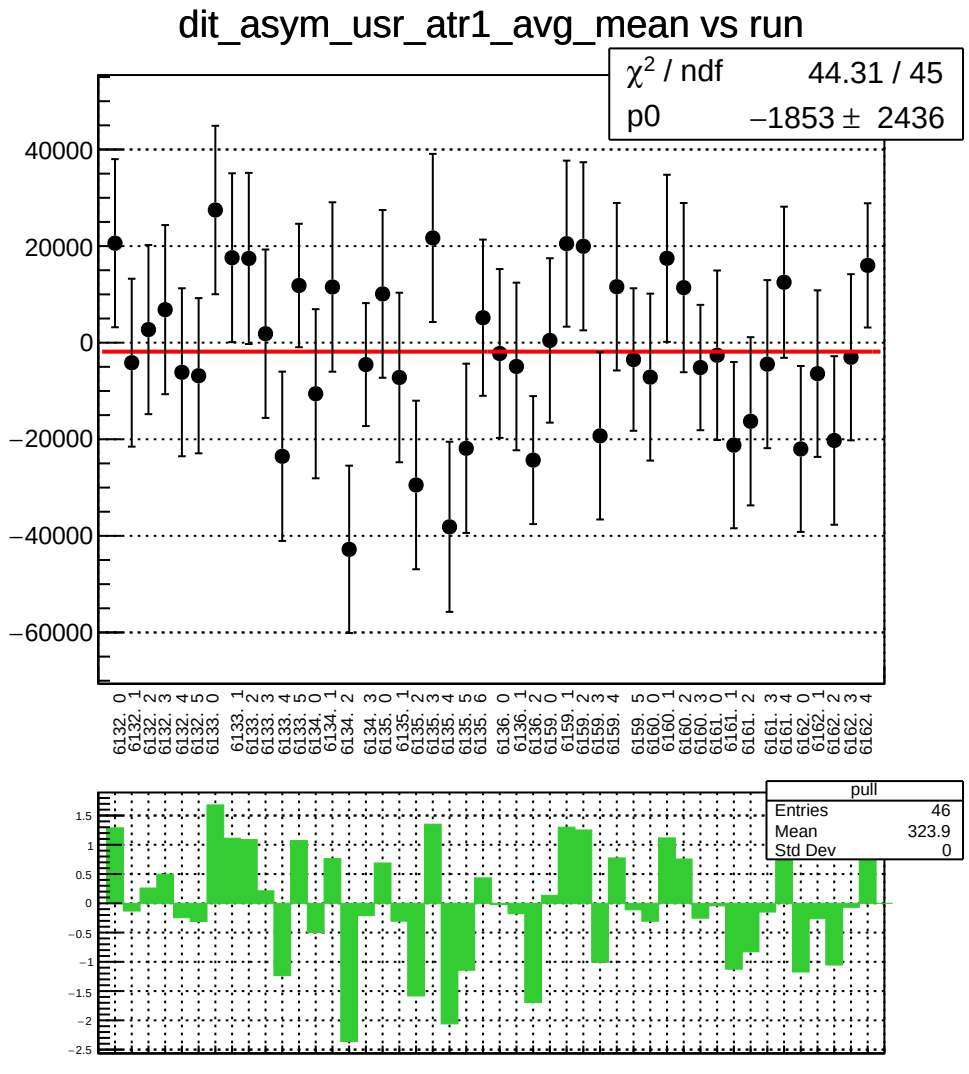
dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 44.31 / 45
p0 −1853 ± 2436
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−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6161. 0
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6161. 4
6162. 0
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6162. 4
pull
Entries 46
Mean 323.9
Std Dev 0
1.5
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−2
−2.5
pull1D
Entries 46
Mean −0.005729
Std Dev 0.9815
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10
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6
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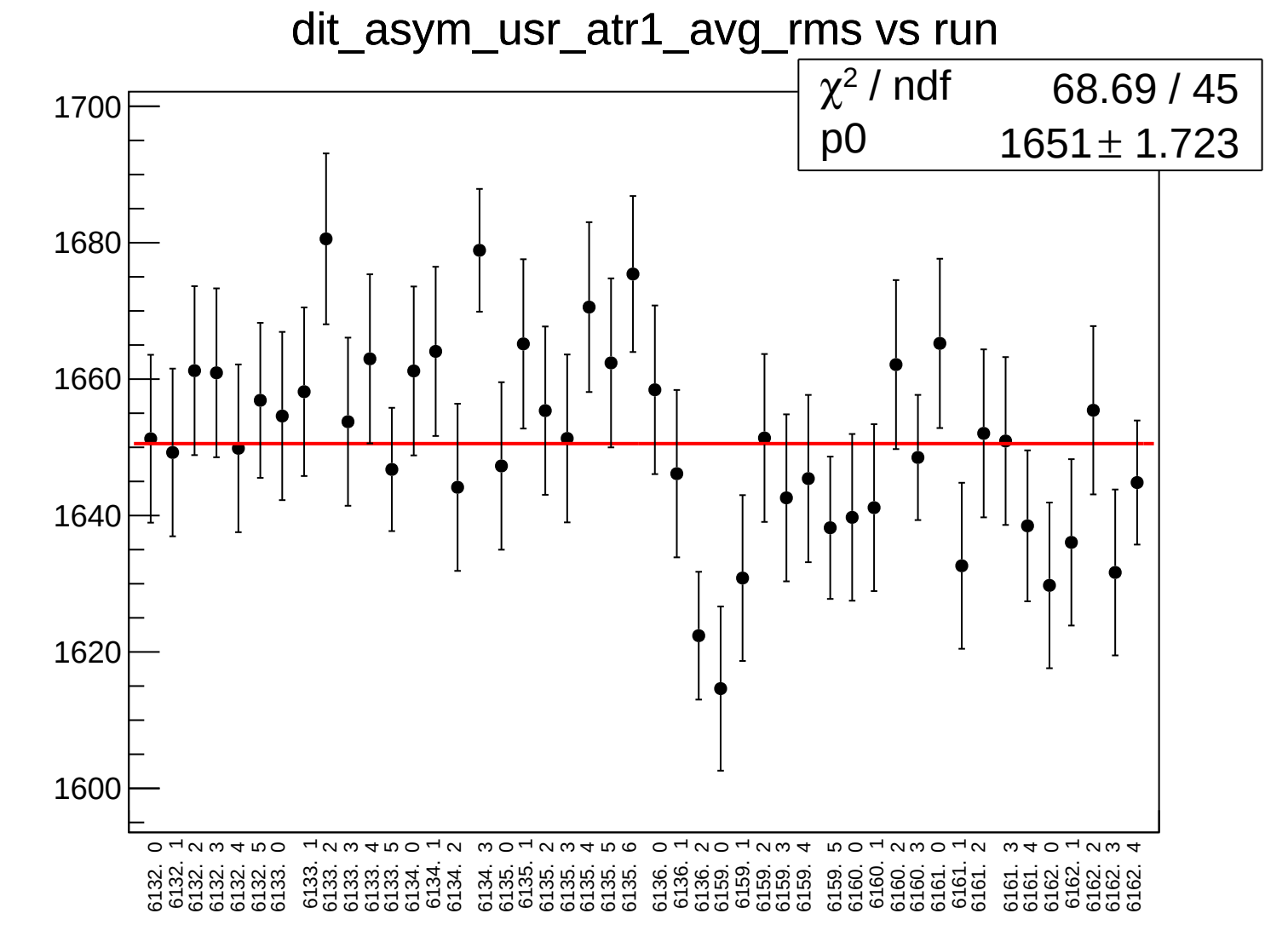
2
4
6
8


dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 68.69 / 45
p0 1651 ± 1.723
1700
1680
1660
1640
1620
1600
6132. 0
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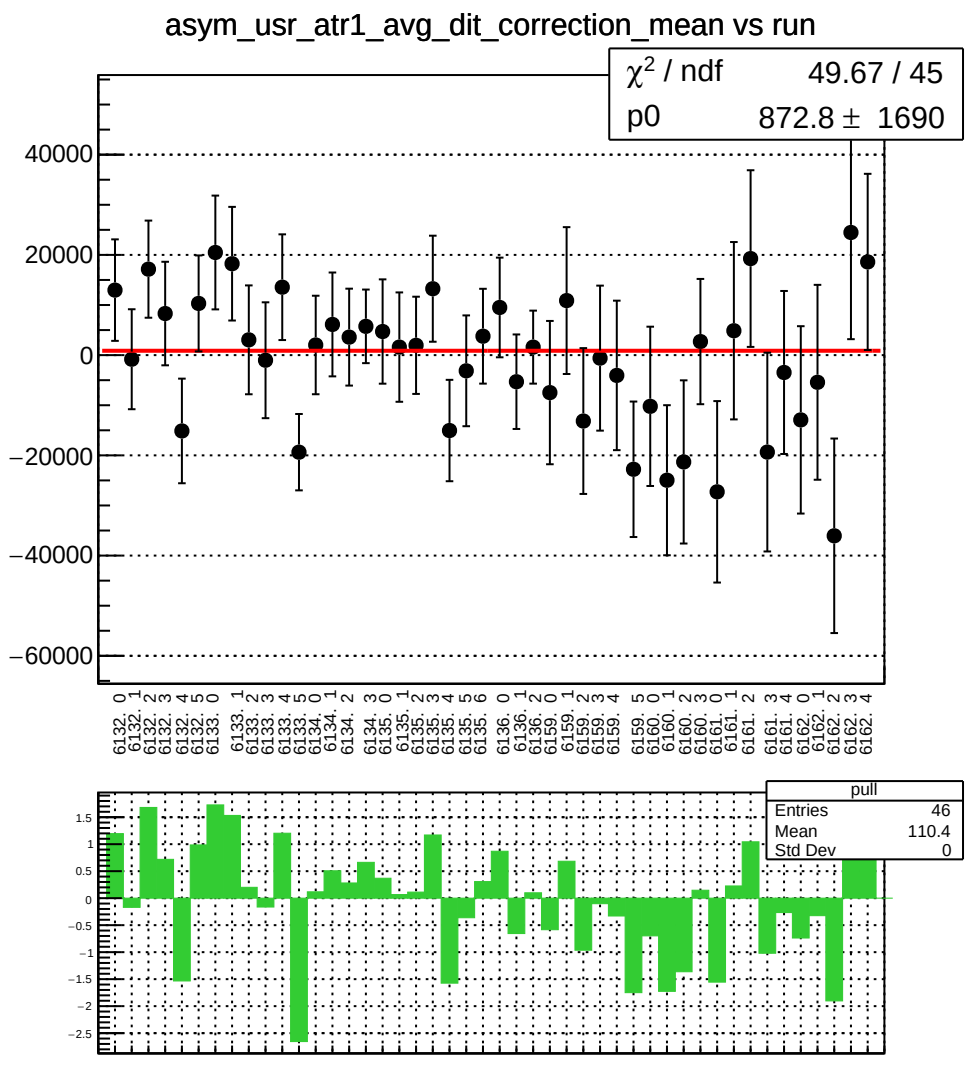
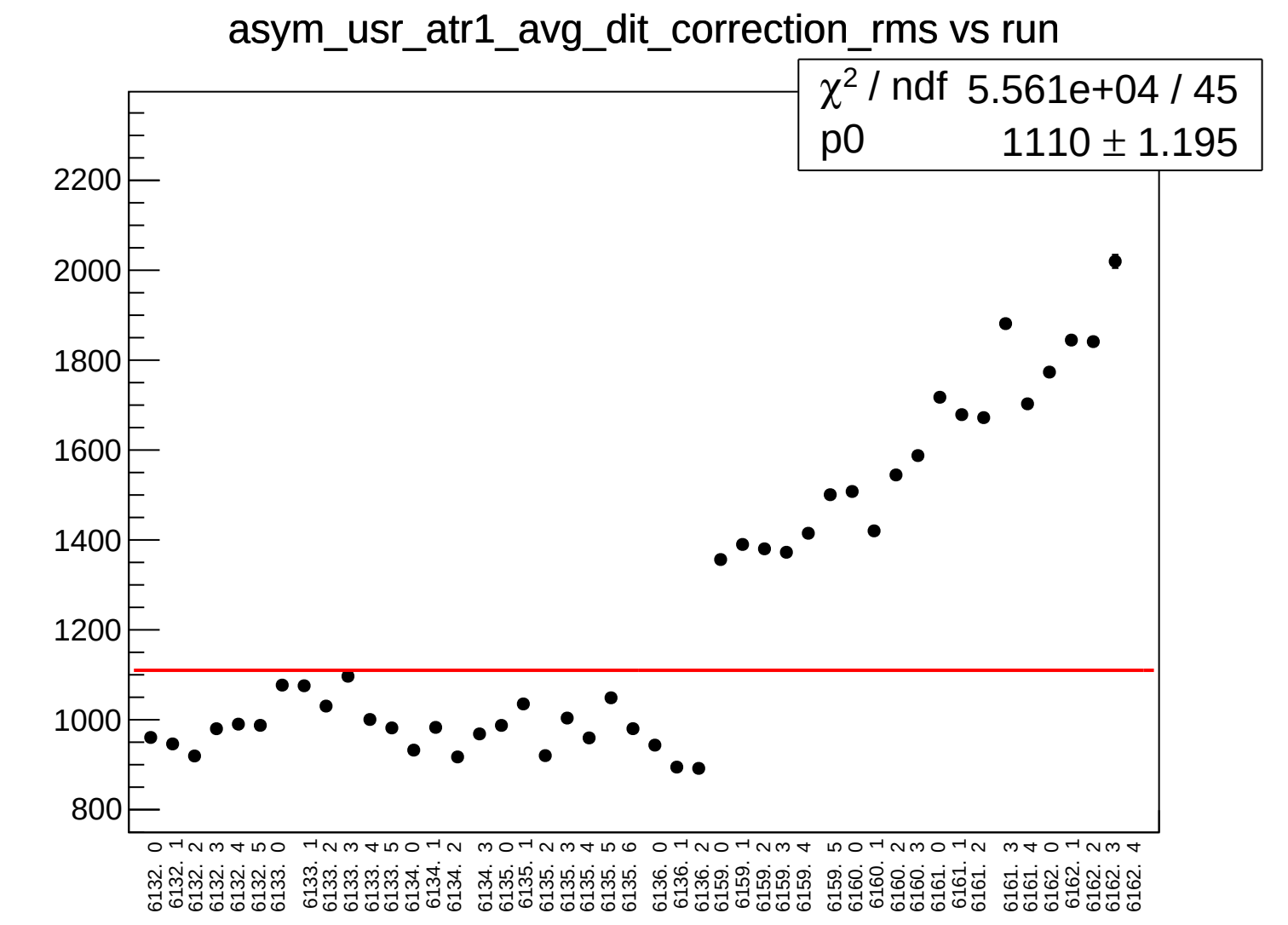
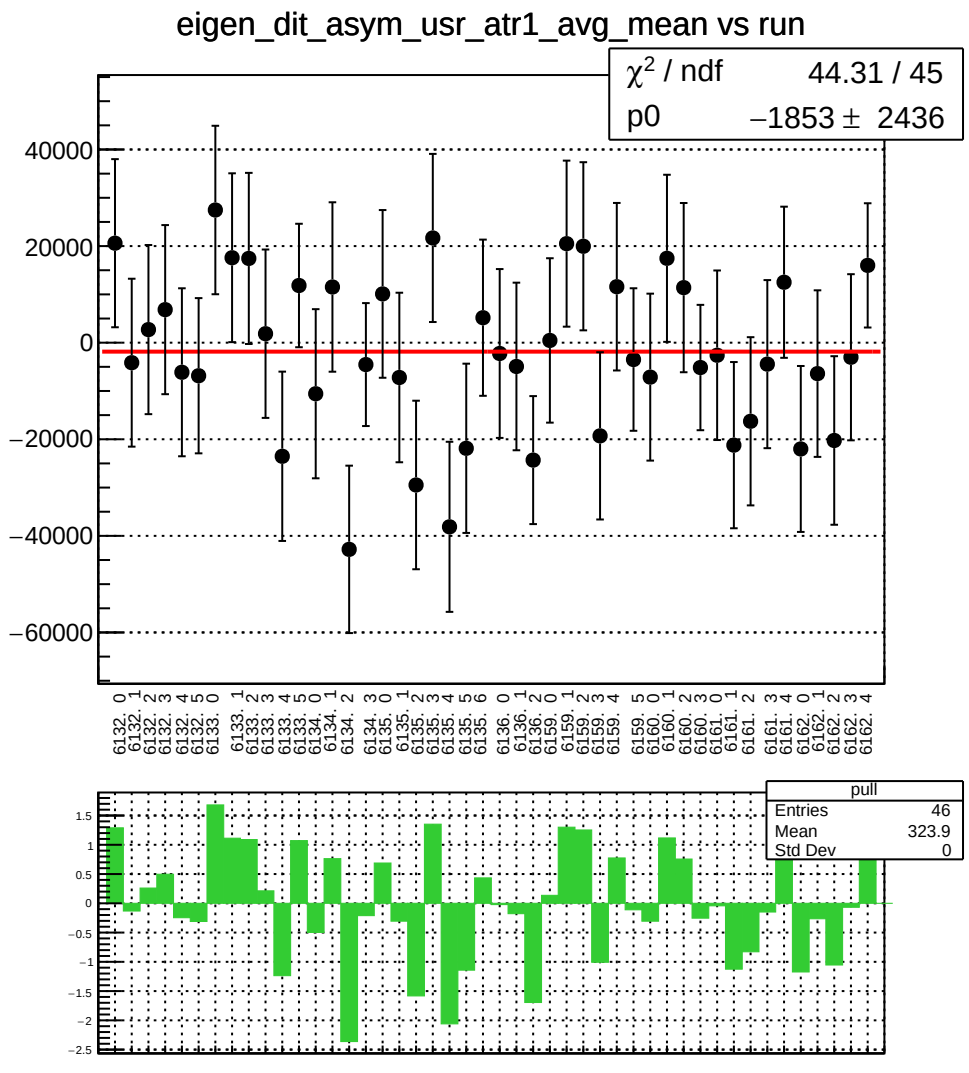
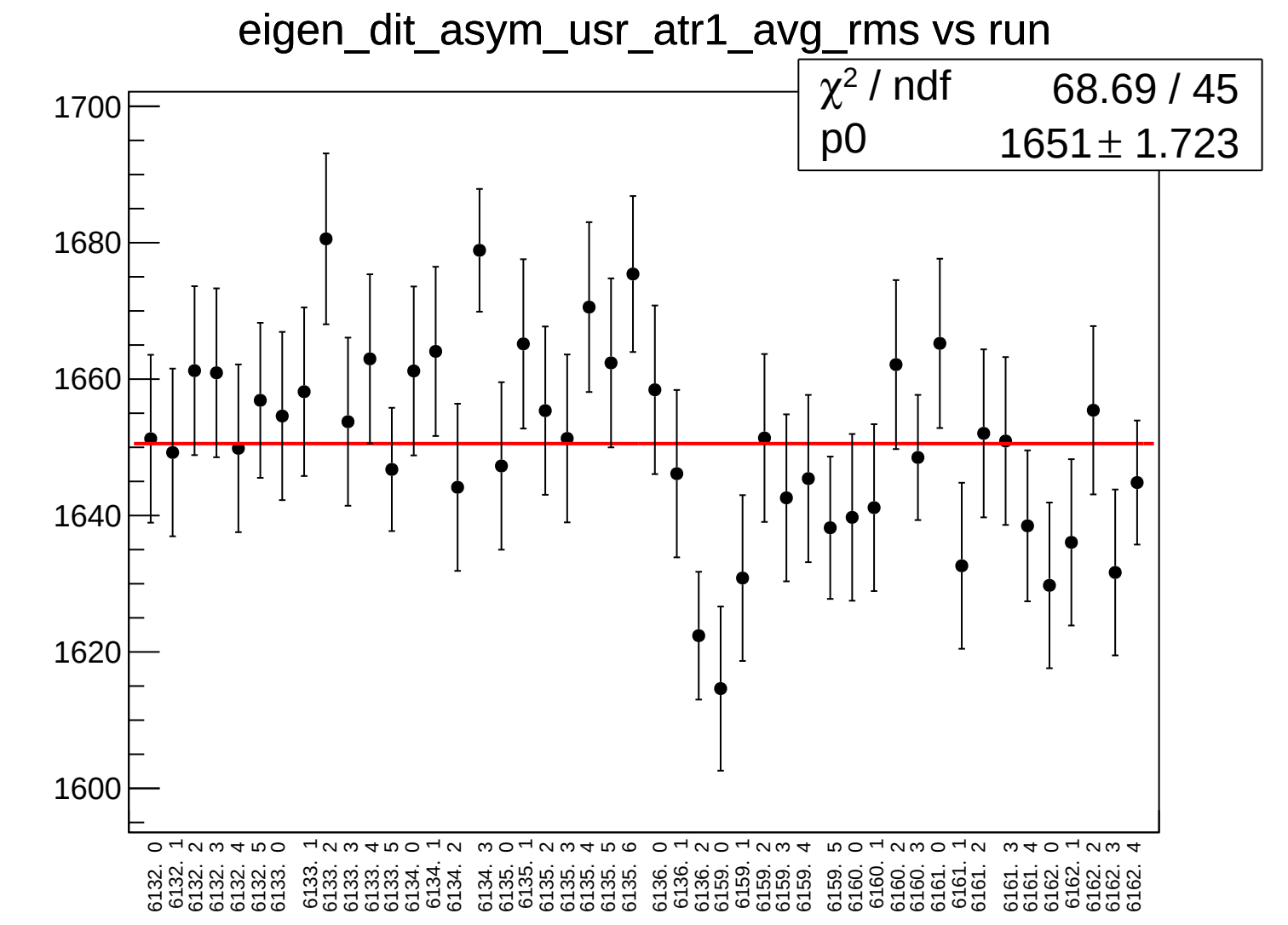
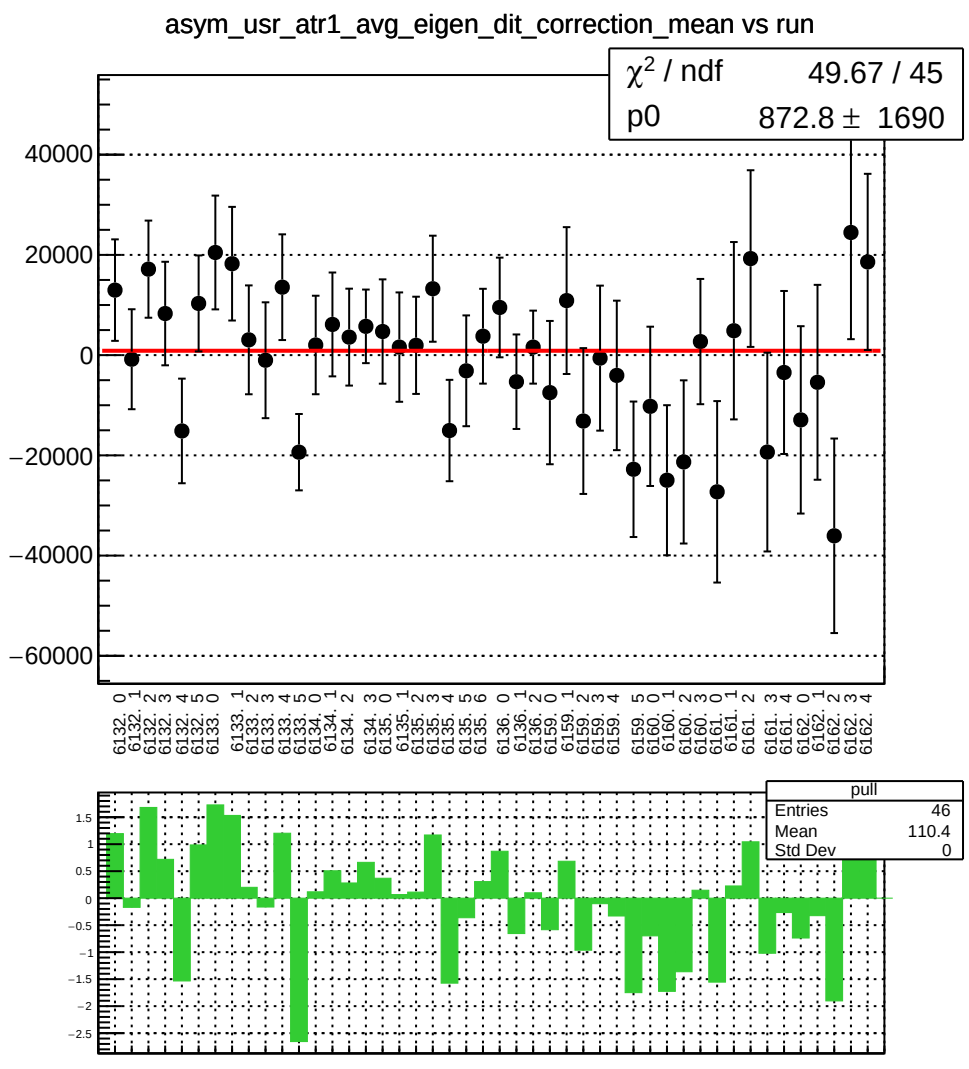
6162. 4

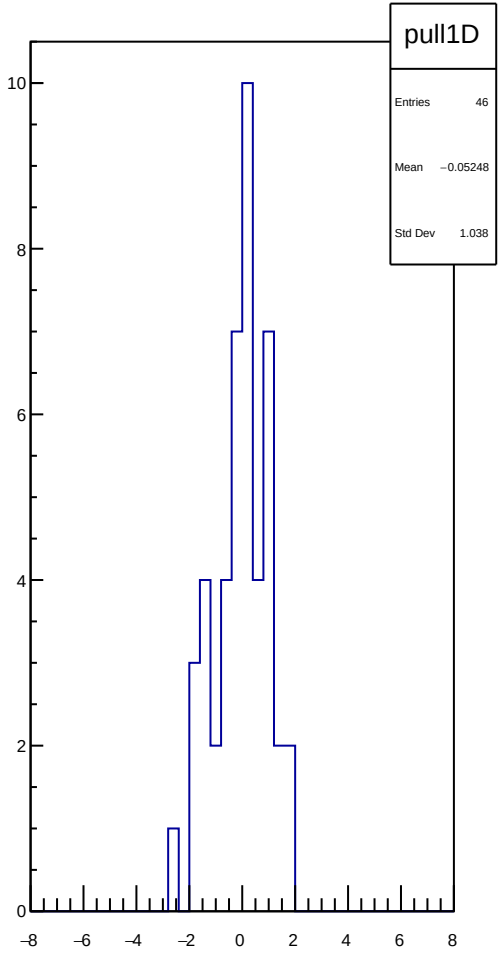

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 49.67 / 45
p0 872.8 ± 1690
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 110.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.05248
Std Dev 1.038
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

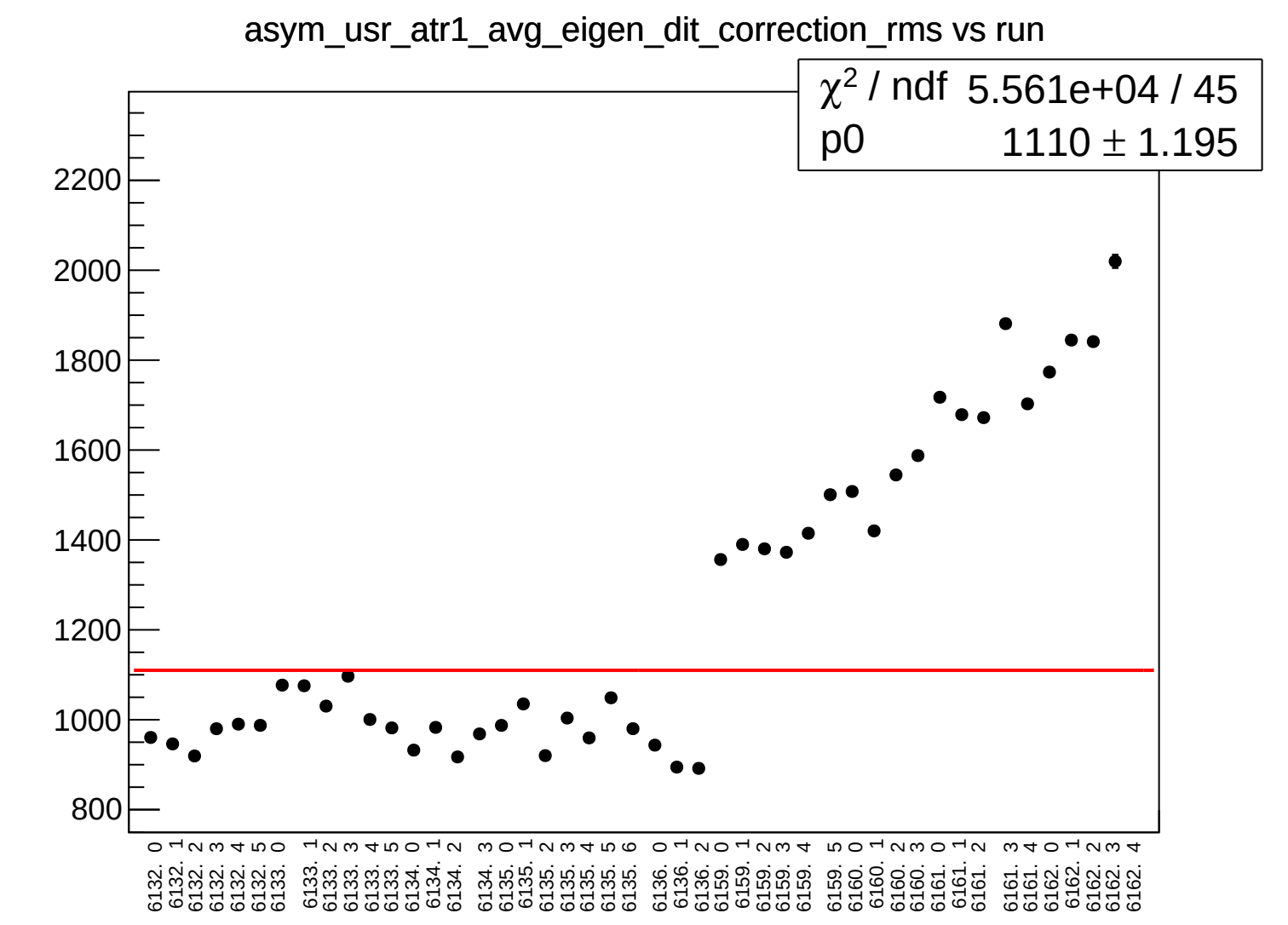

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 5.561e+04 / 45
p0 1110 ± 1.195
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

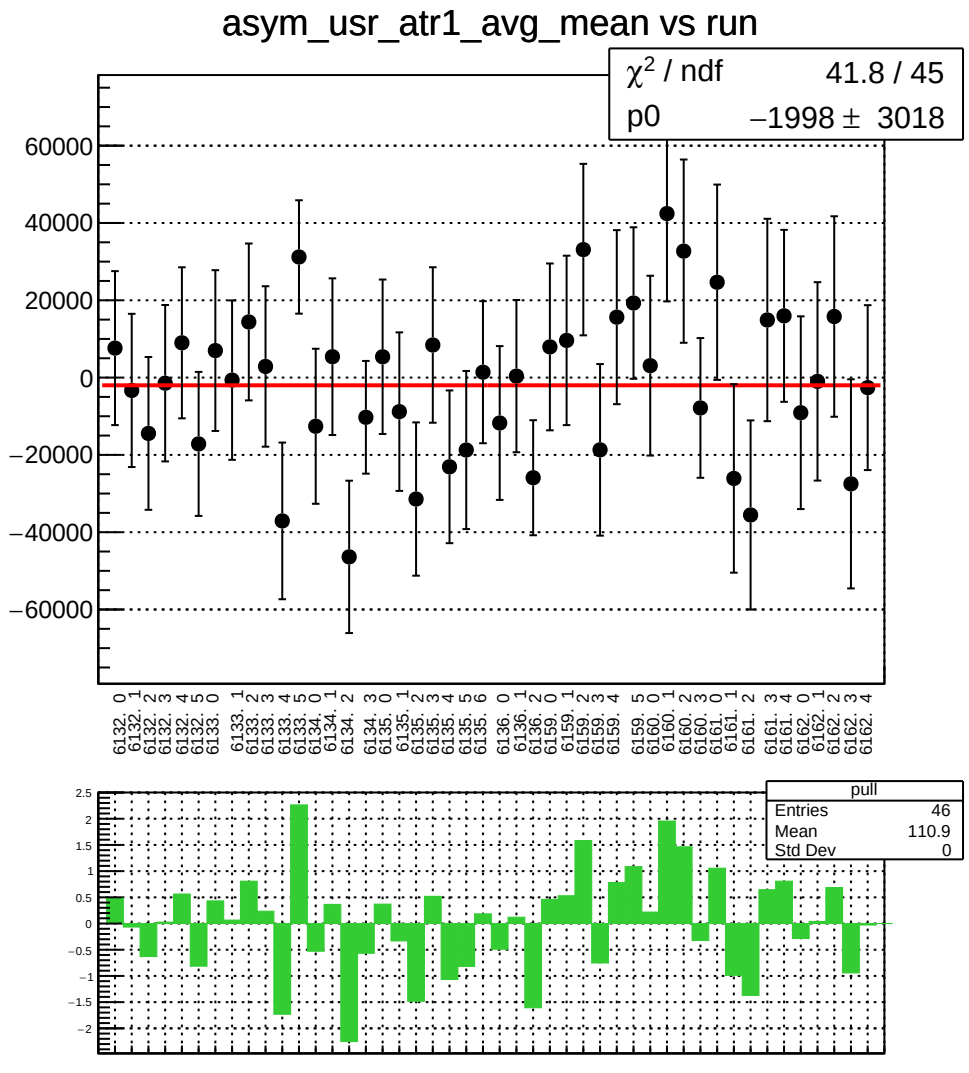

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 44.31 / 45
p0 −1853 ± 2436
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 323.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.005729
Std Dev 0.9815
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

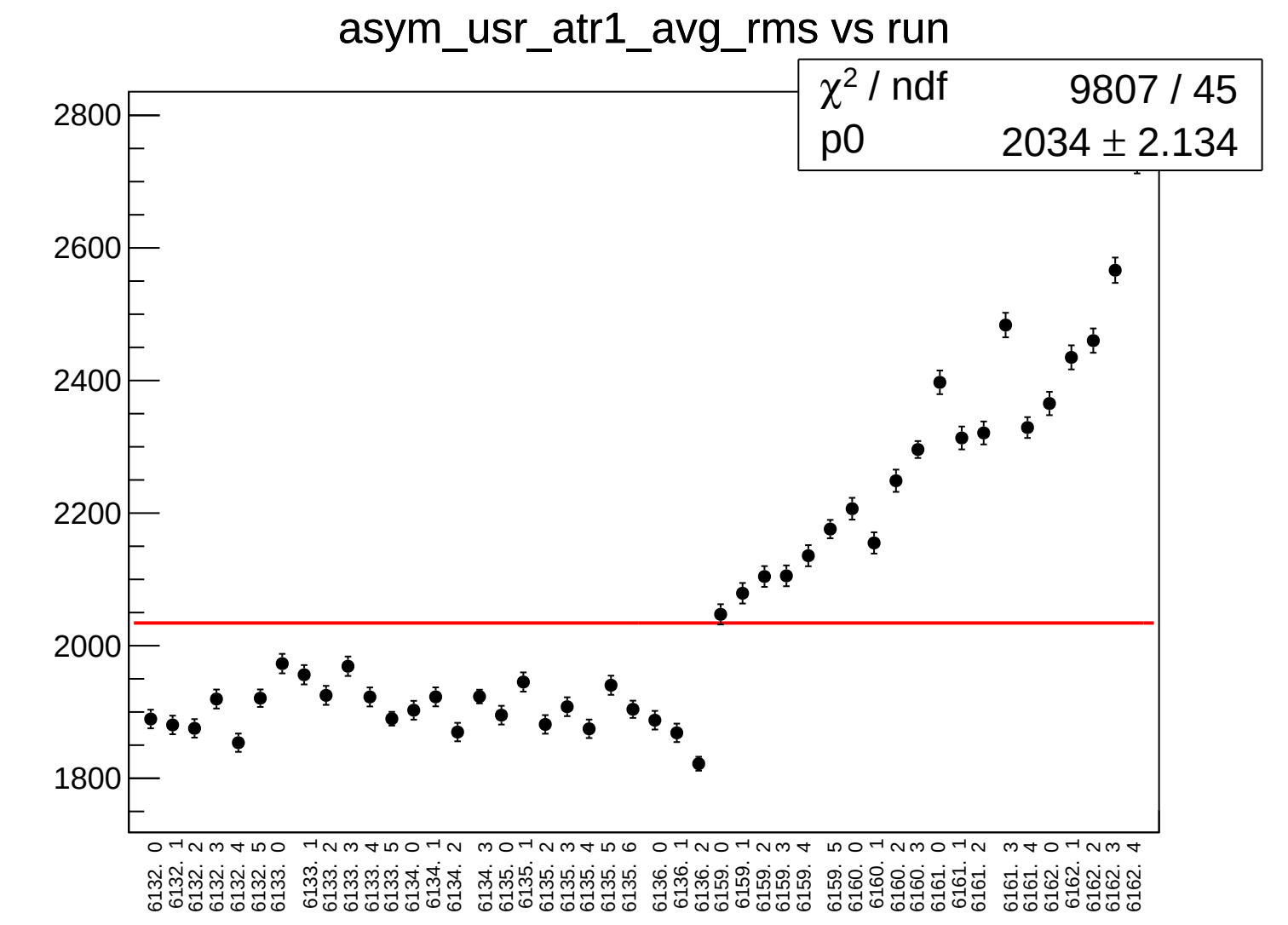

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 68.69 / 45
p0 1651 ± 1.723
1700
1680
1660
1640
1620
1600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

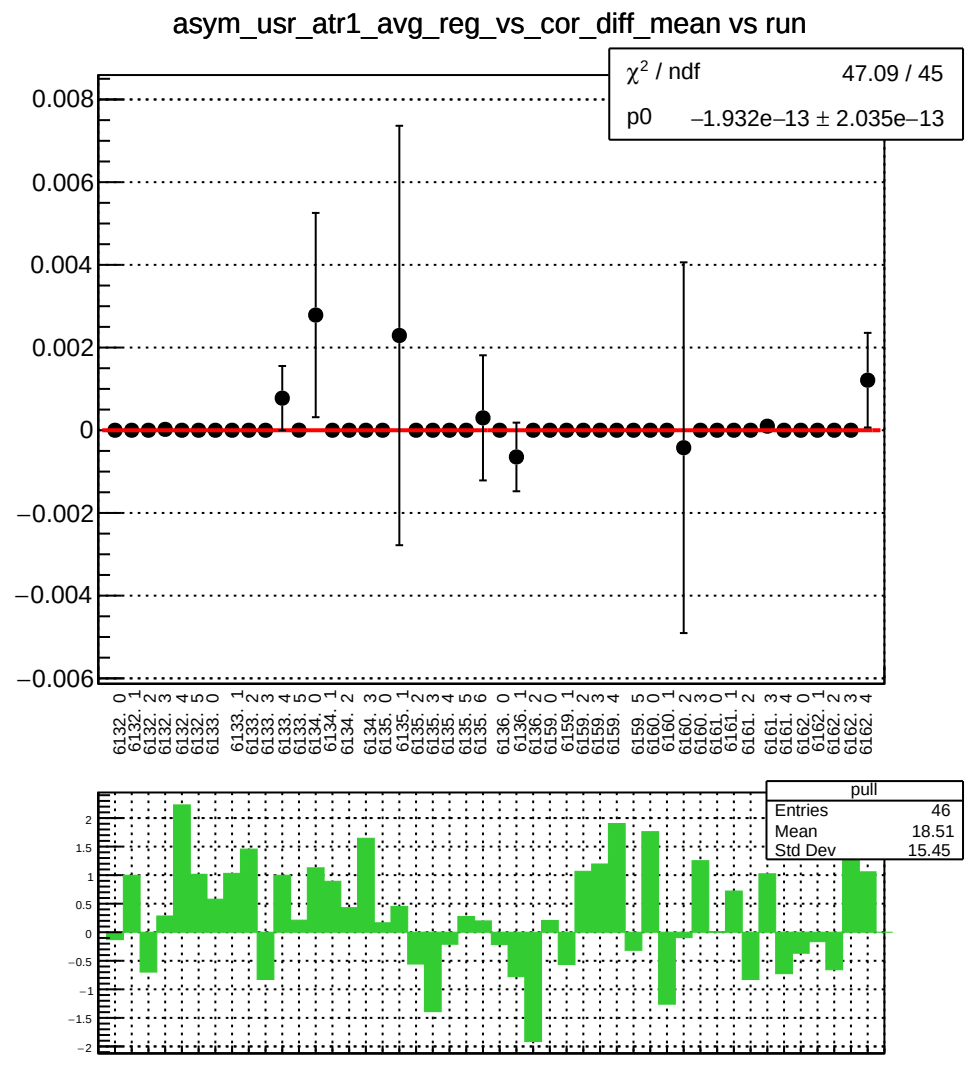

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 49.67 / 45
p0 872.8 ± 1690
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 110.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

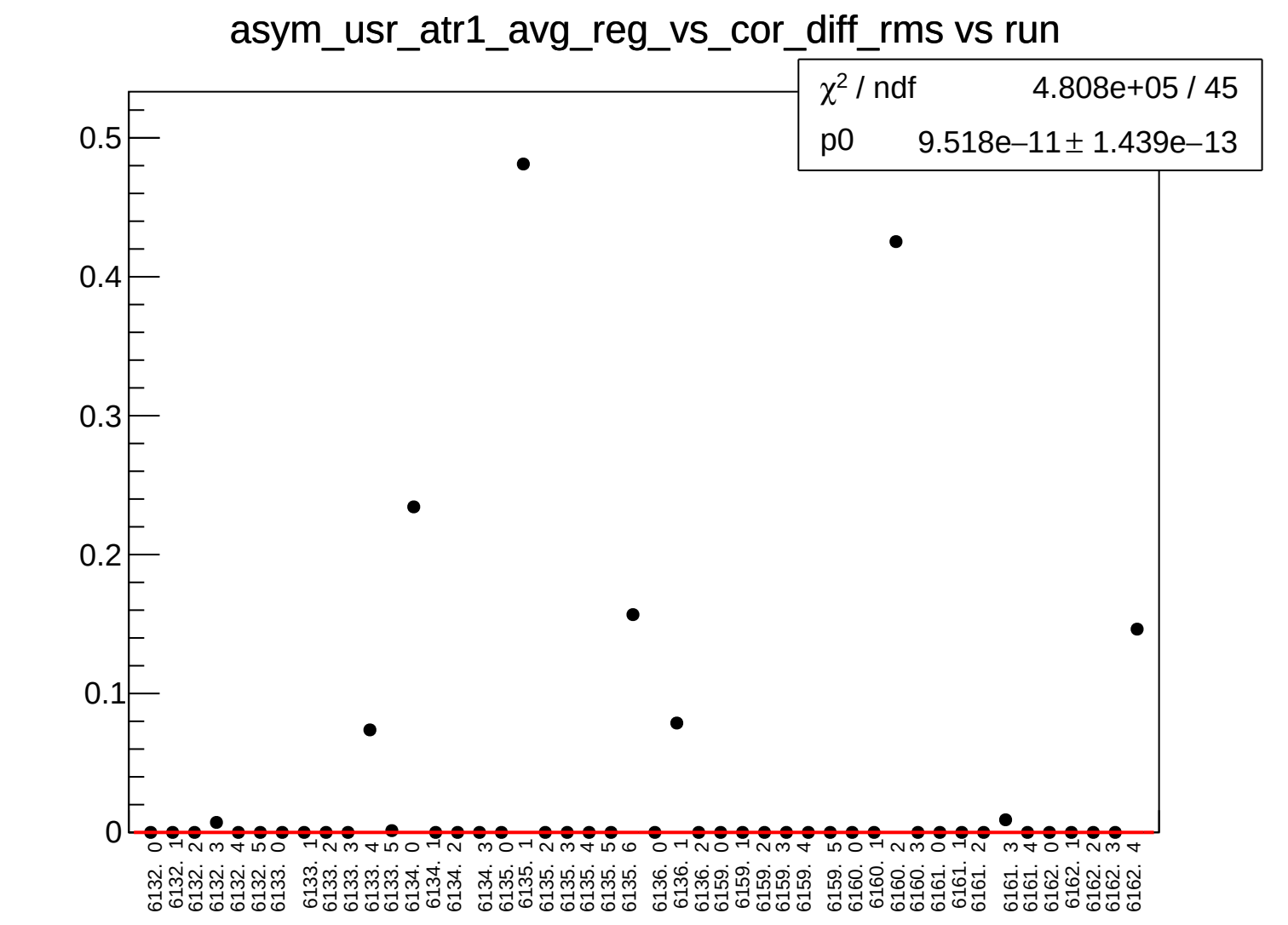

pull1D
Entries 46
Mean −0.05248
Std Dev 1.038
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

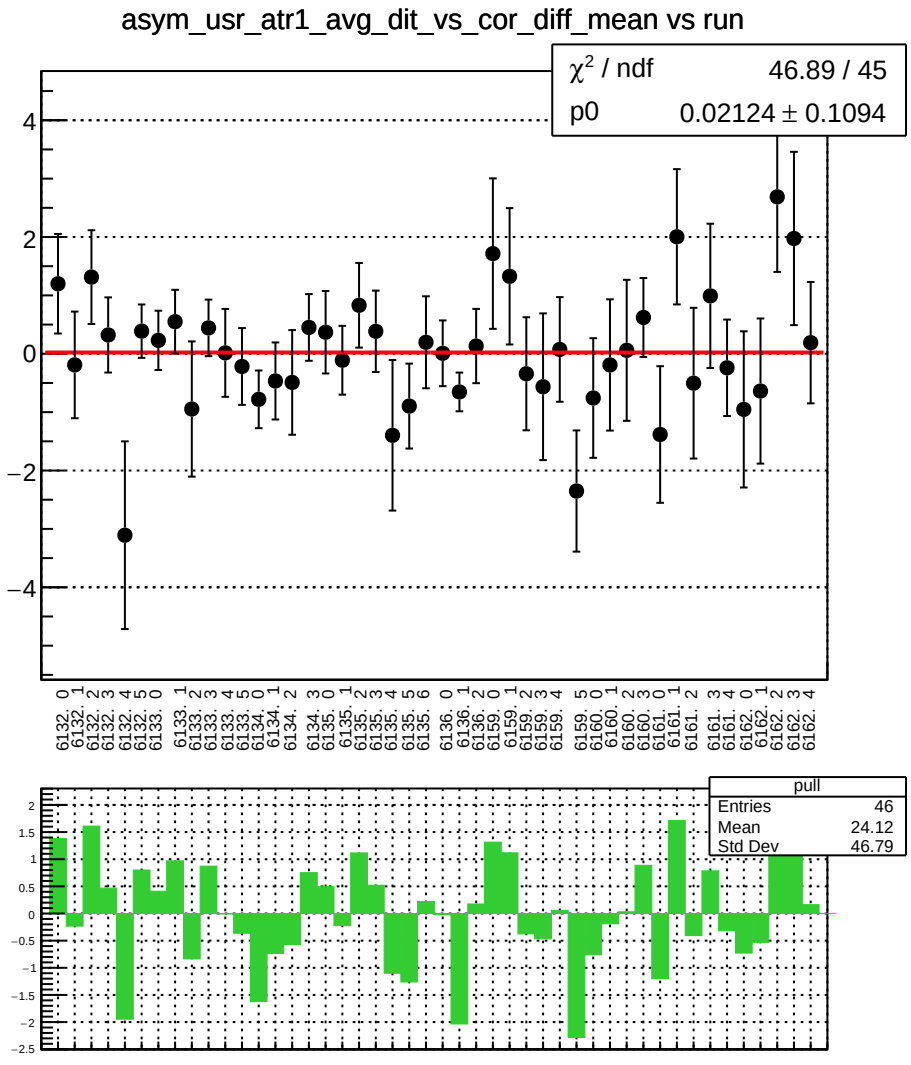

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.561e+04 / 45
p0 1110 ± 1.195
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

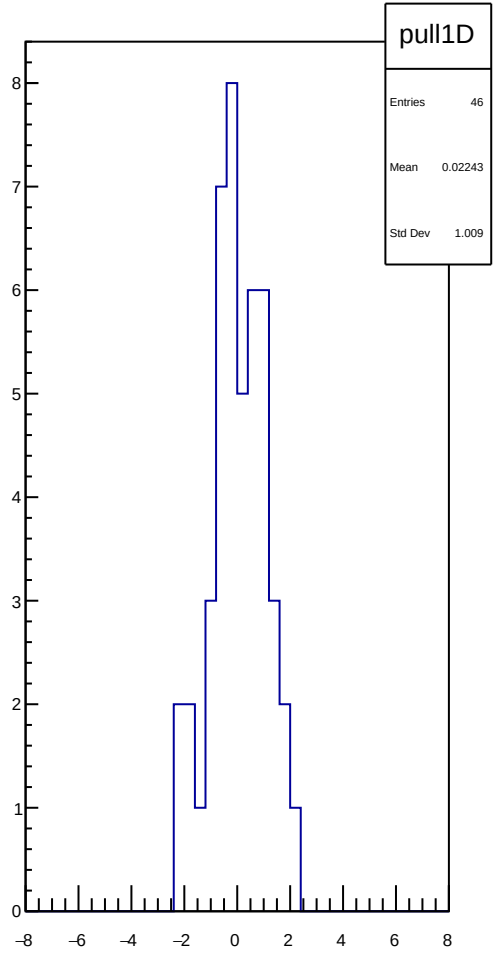

asym_usr_atr1_avg_mean vs run
χ² / ndf 41.8 / 45
p0 −1998 ± 3018
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 110.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.01468
Std Dev 0.9531
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

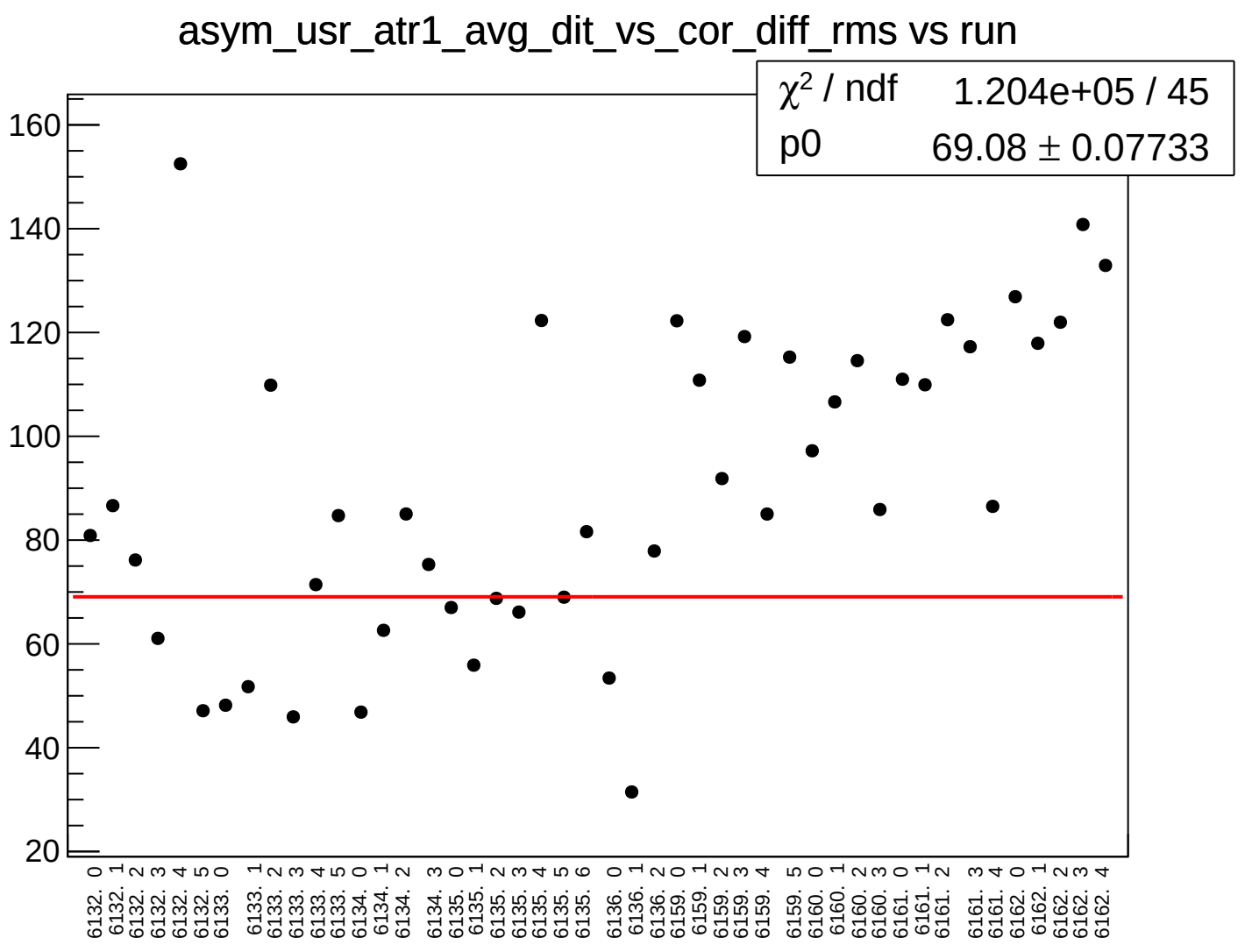

asym_usr_atr1_avg_rms vs run
χ² / ndf 9807 / 45
p0 2034 ± 2.134
2800
2600
2400
2200
2000
1800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

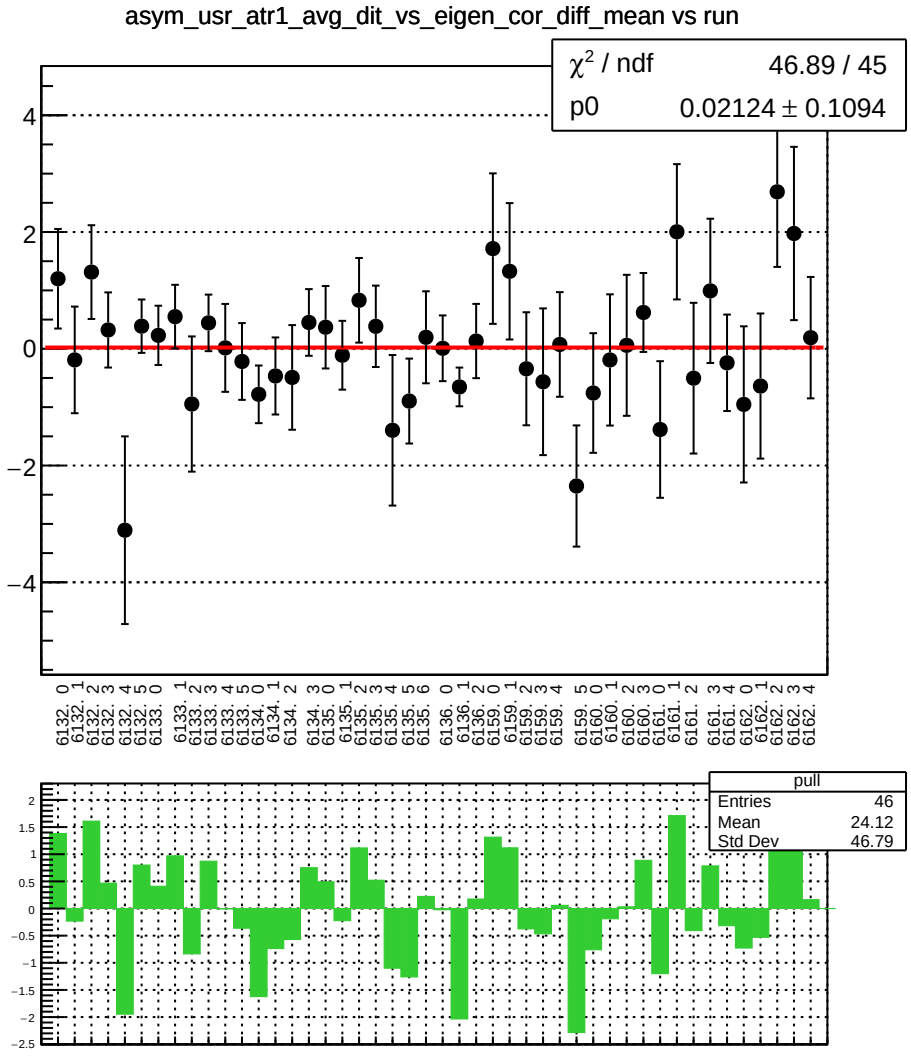

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 47.09 / 45
p0 −1.932e−13 ± 2.035e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 18.51
Std Dev 15.45
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.3199
Std Dev 0.9599
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

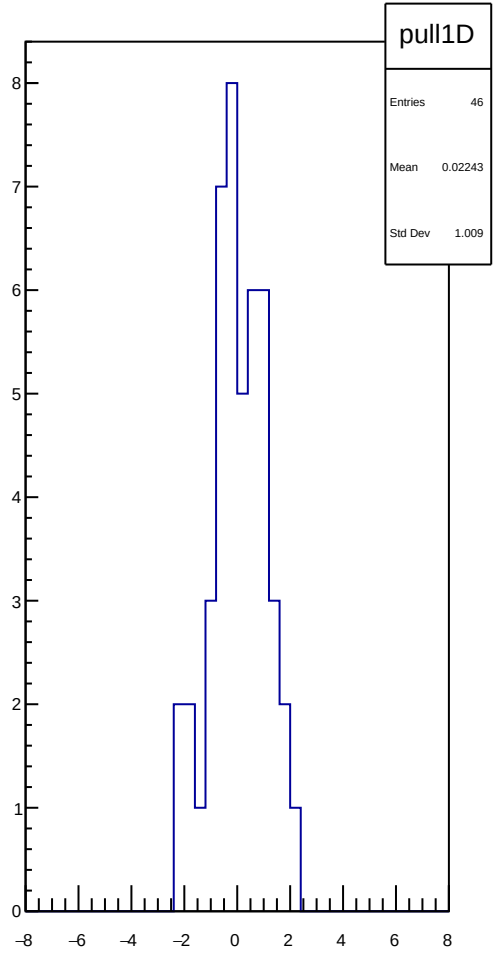

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.808e+05 / 45
p0 9.518e−11 ± 1.439e−13
0.5
0.4
0.3
0.2
0.1
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

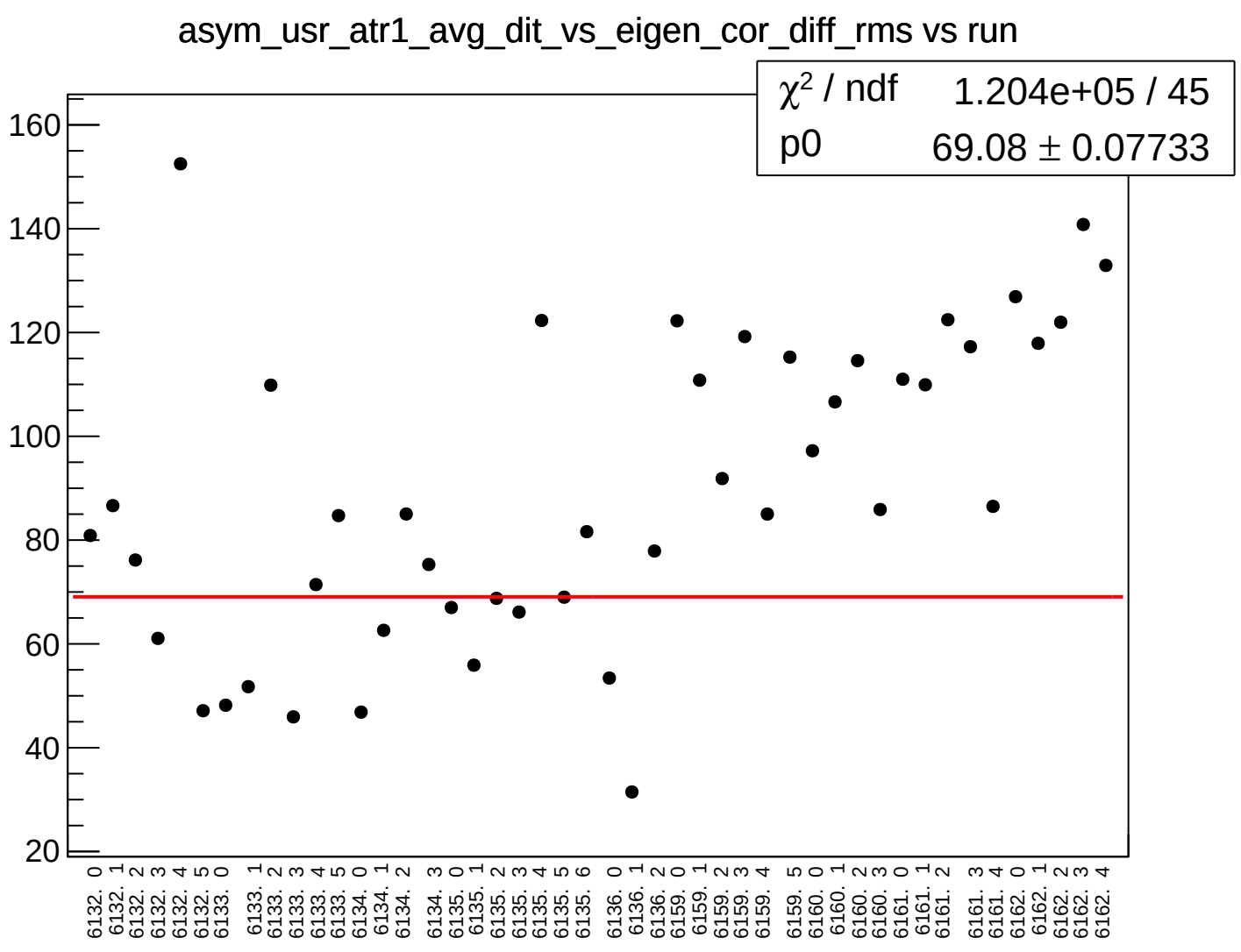

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 46.89 / 45
p0 0.02124 ± 0.1094
pull
Entries 46
Mean 24.12
Std Dev 46.79

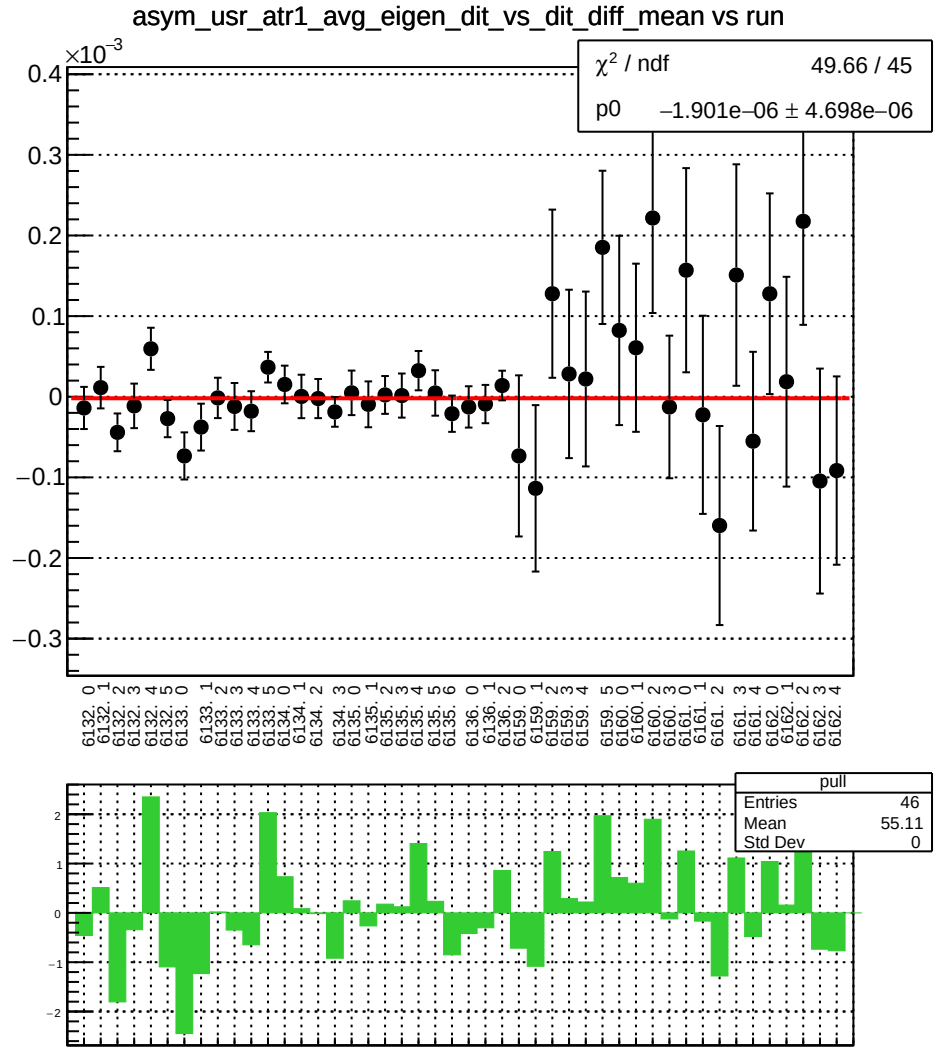

pull1D
Entries 46
Mean 0.02243
Std Dev 1.009

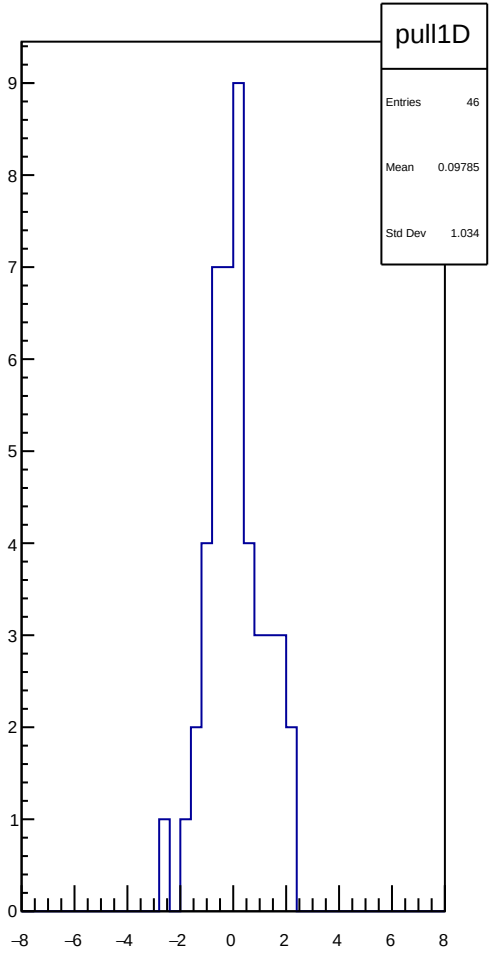

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.204e+05 / 45
p0 69.08 ± 0.07733
160
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

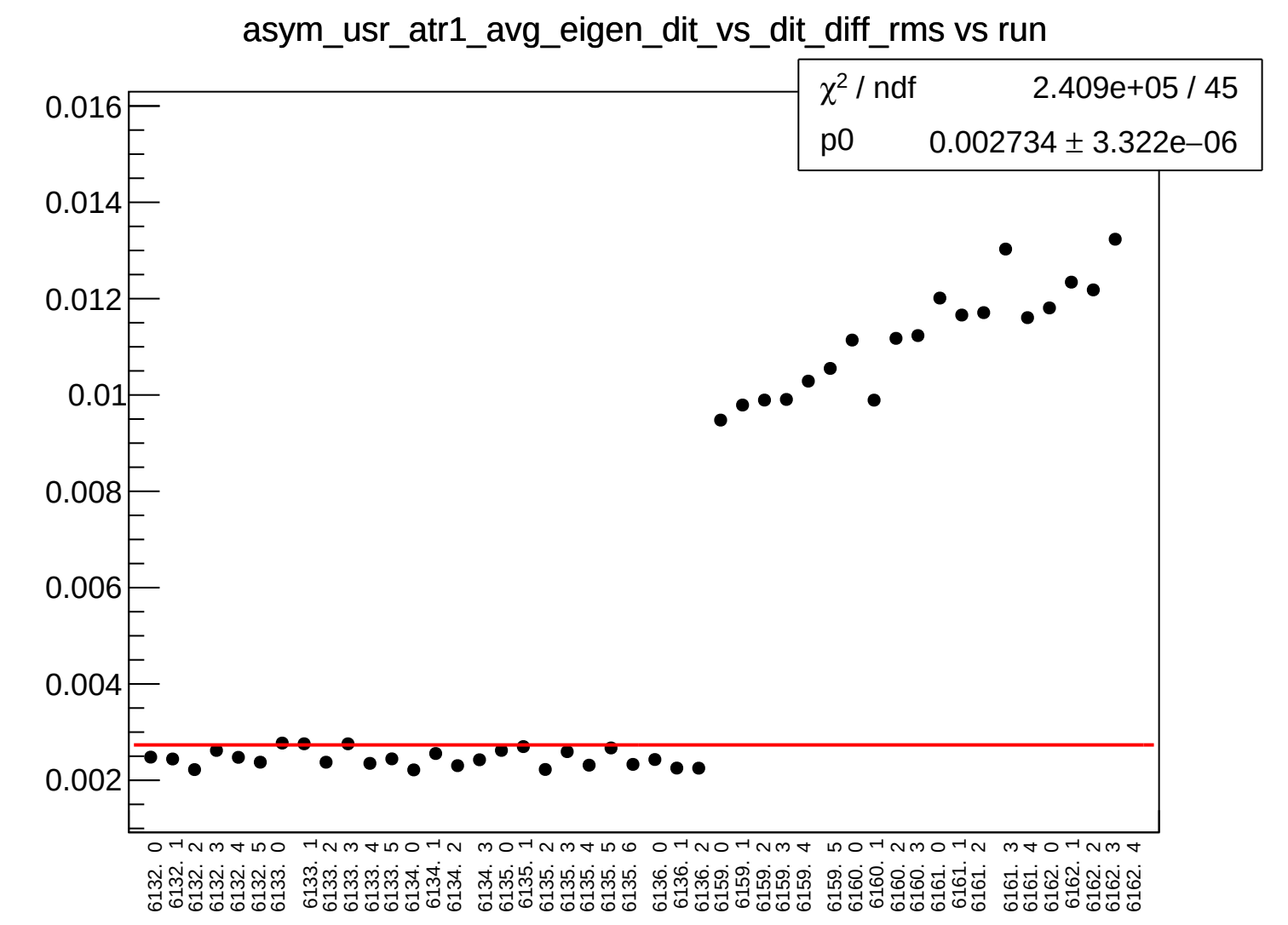

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.89 / 45
p0 0.02124 ± 0.1094
pull
Entries 46
Mean 24.12
Std Dev 46.79


pull1D
Entries 46
Mean 0.02243
Std Dev 1.009


asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.204e+05 / 45
p0 69.08 ± 0.07733
160
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 49.66 / 45
p0 −1.901e−06 ± 4.698e−06
pull
Entries 46
Mean 55.11
Std Dev 0


pull1D
Entries 46
Mean 0.09785
Std Dev 1.034


asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.409e+05 / 45
p0 0.002734 ± 3.322e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
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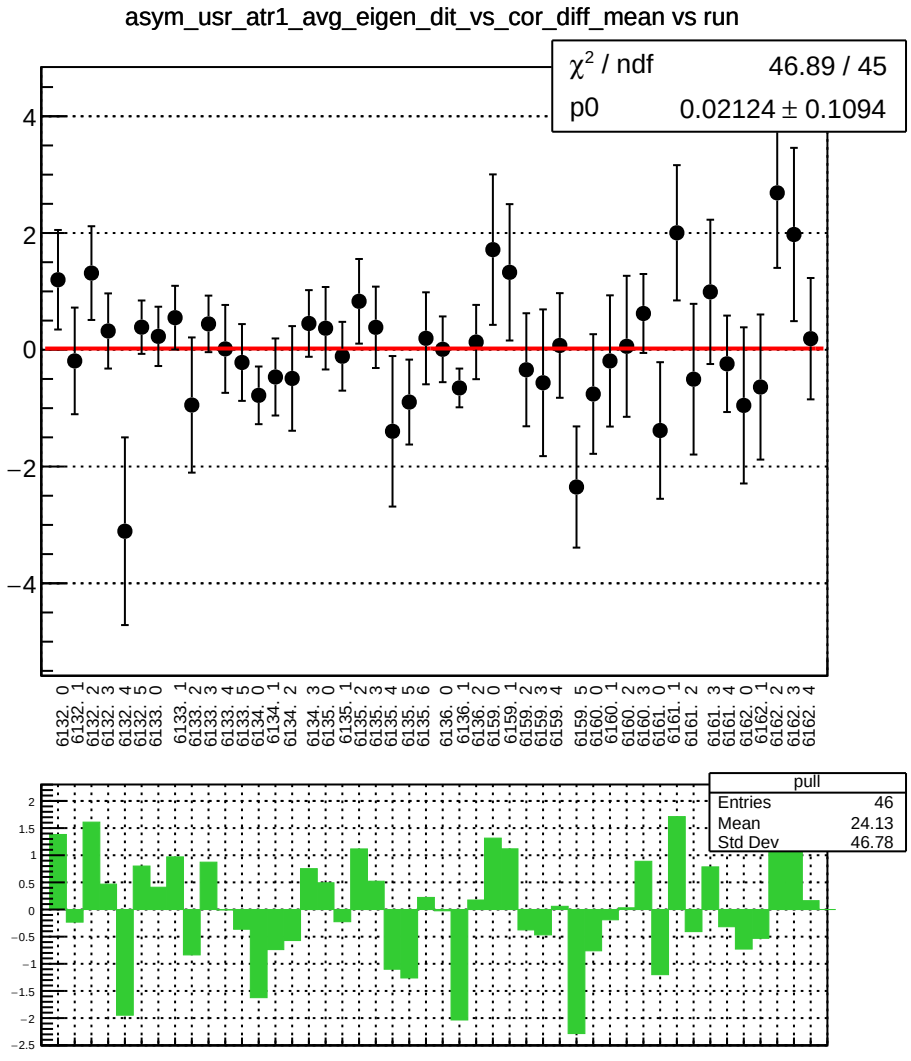
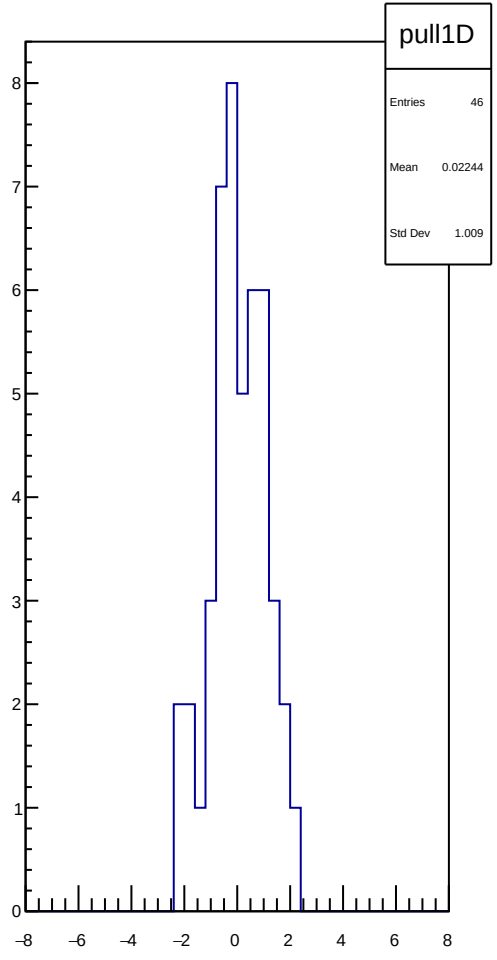
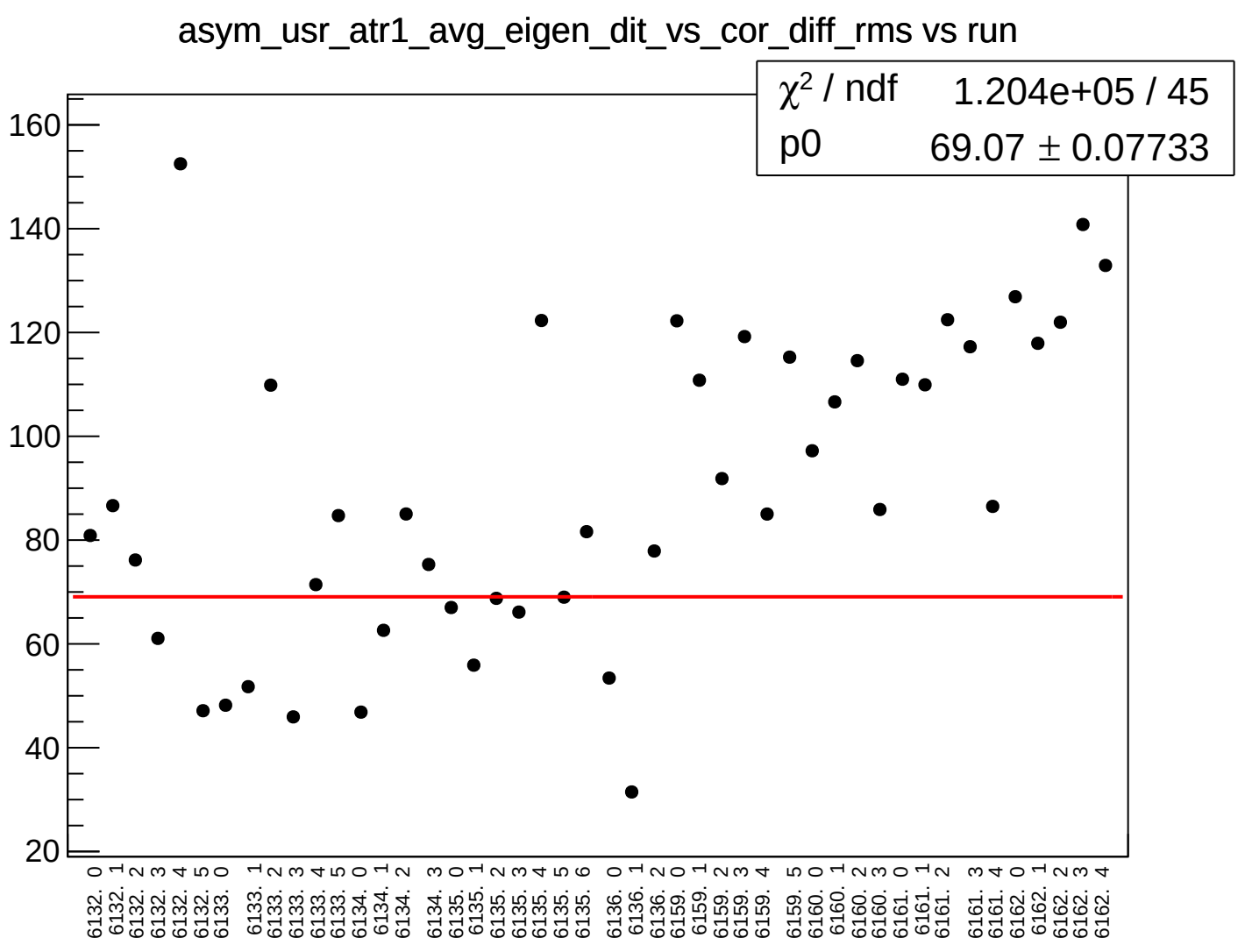
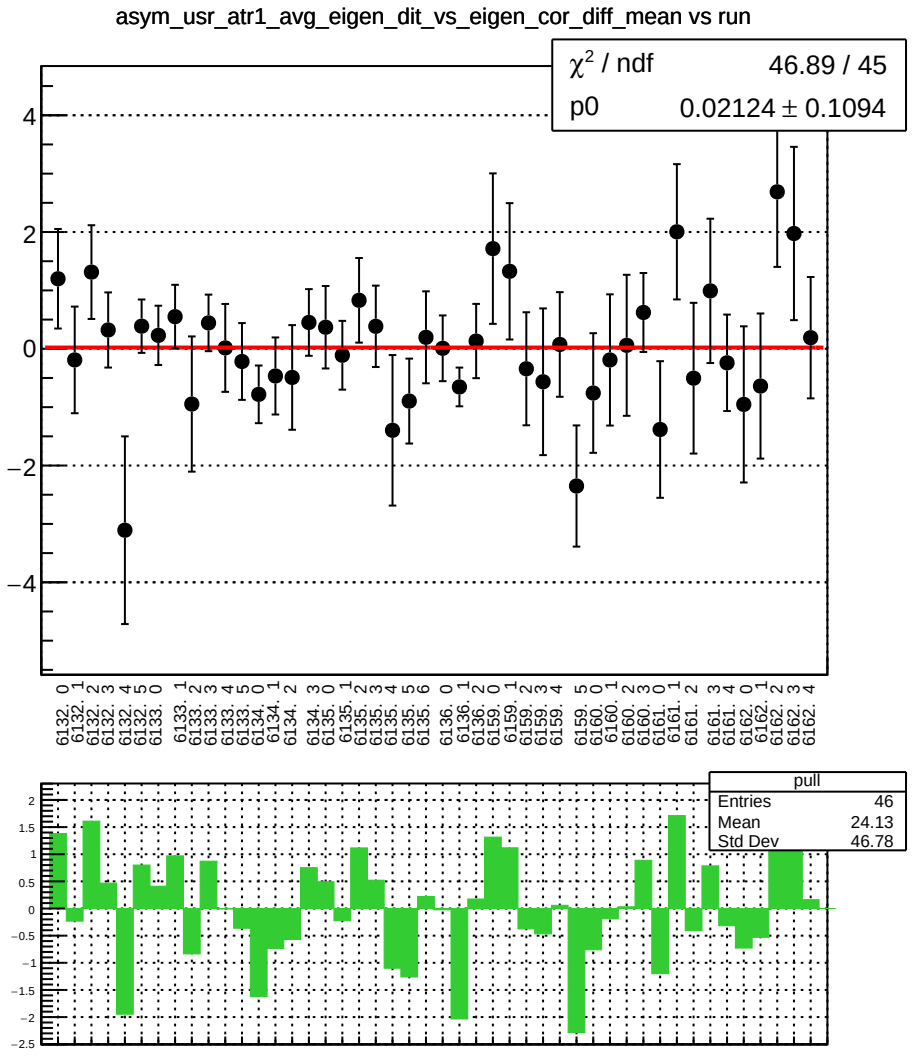
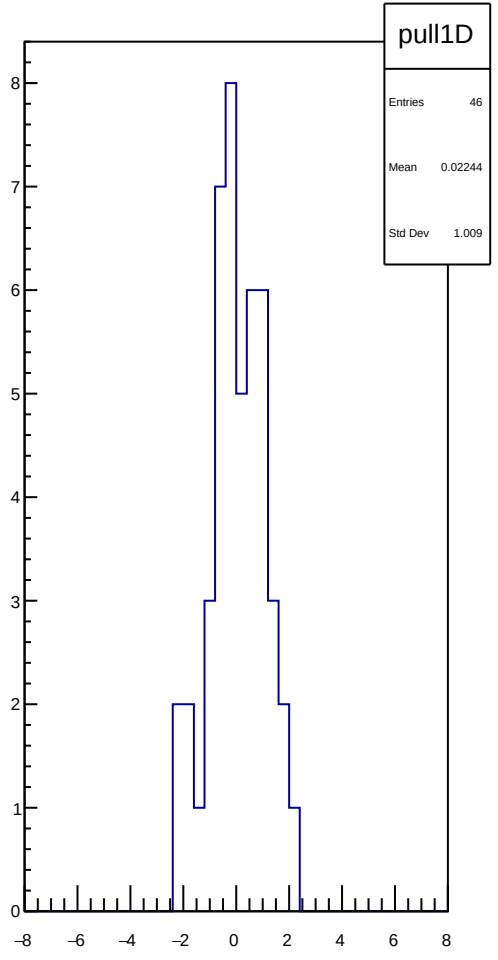
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

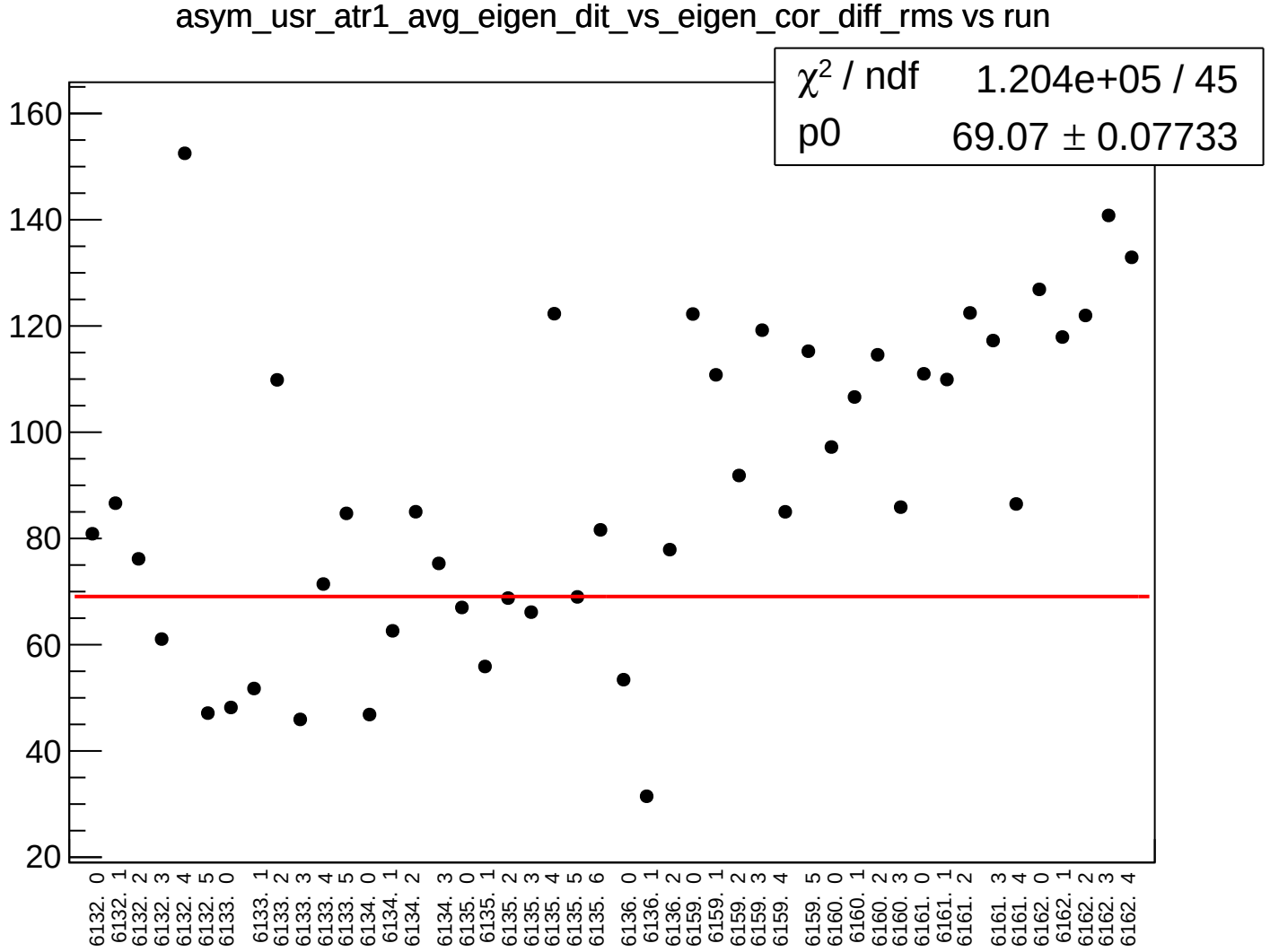

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.89 / 45
p0 0.02124 ± 0.1094
pull
Entries 46
Mean 24.13
Std Dev 46.78

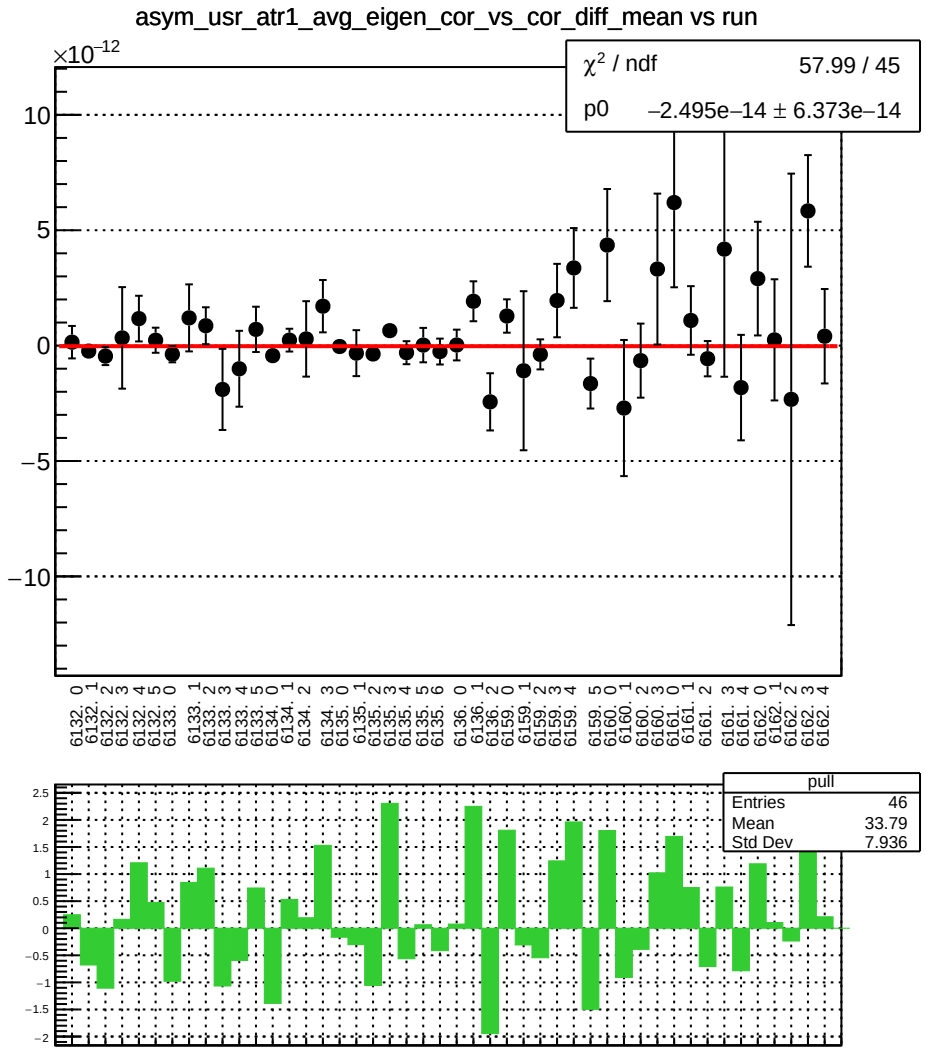

pull1D
Entries 46
Mean 0.02244
Std Dev 1.009

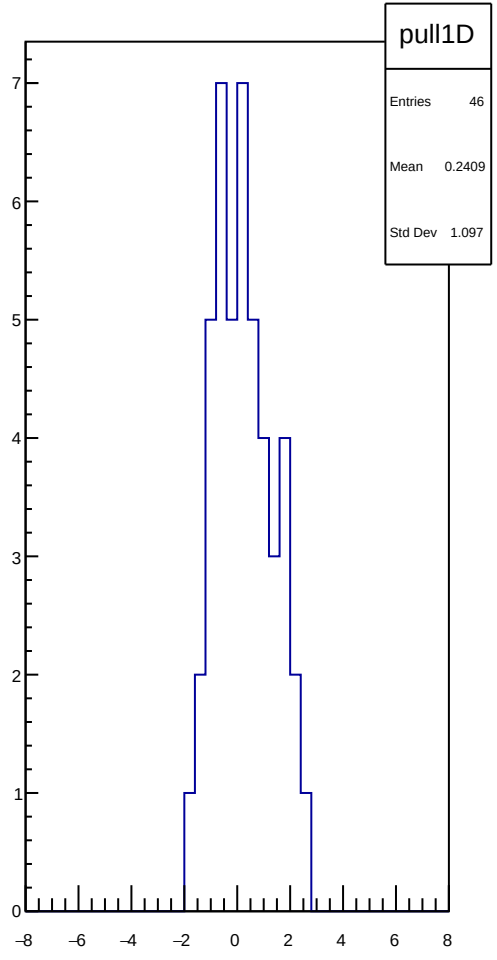

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.204e+05 / 45
p0 69.07 ± 0.07733
160
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

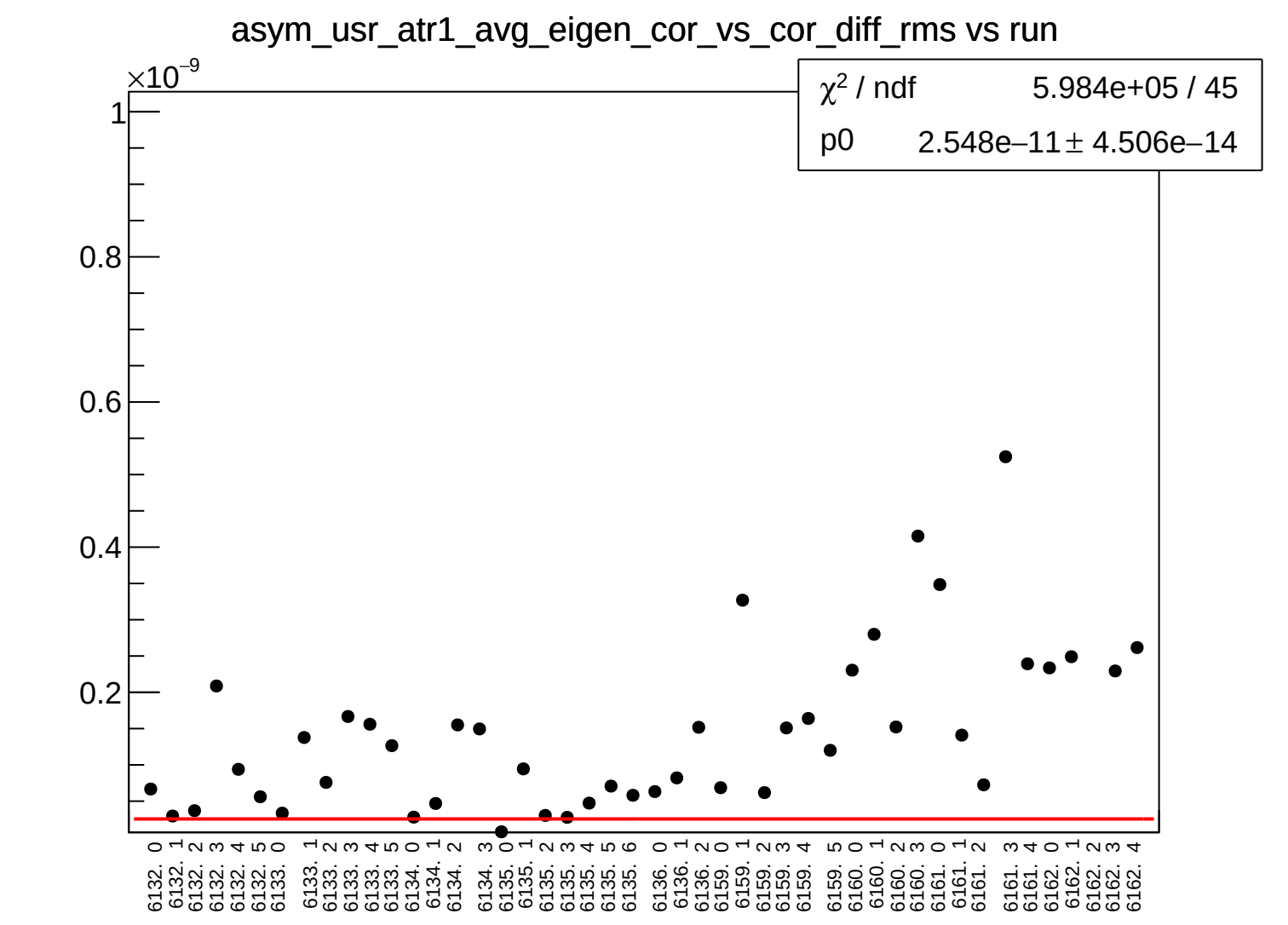

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.89 / 45
p0 0.02124 ± 0.1094
pull
Entries 46
Mean 24.13
Std Dev 46.78

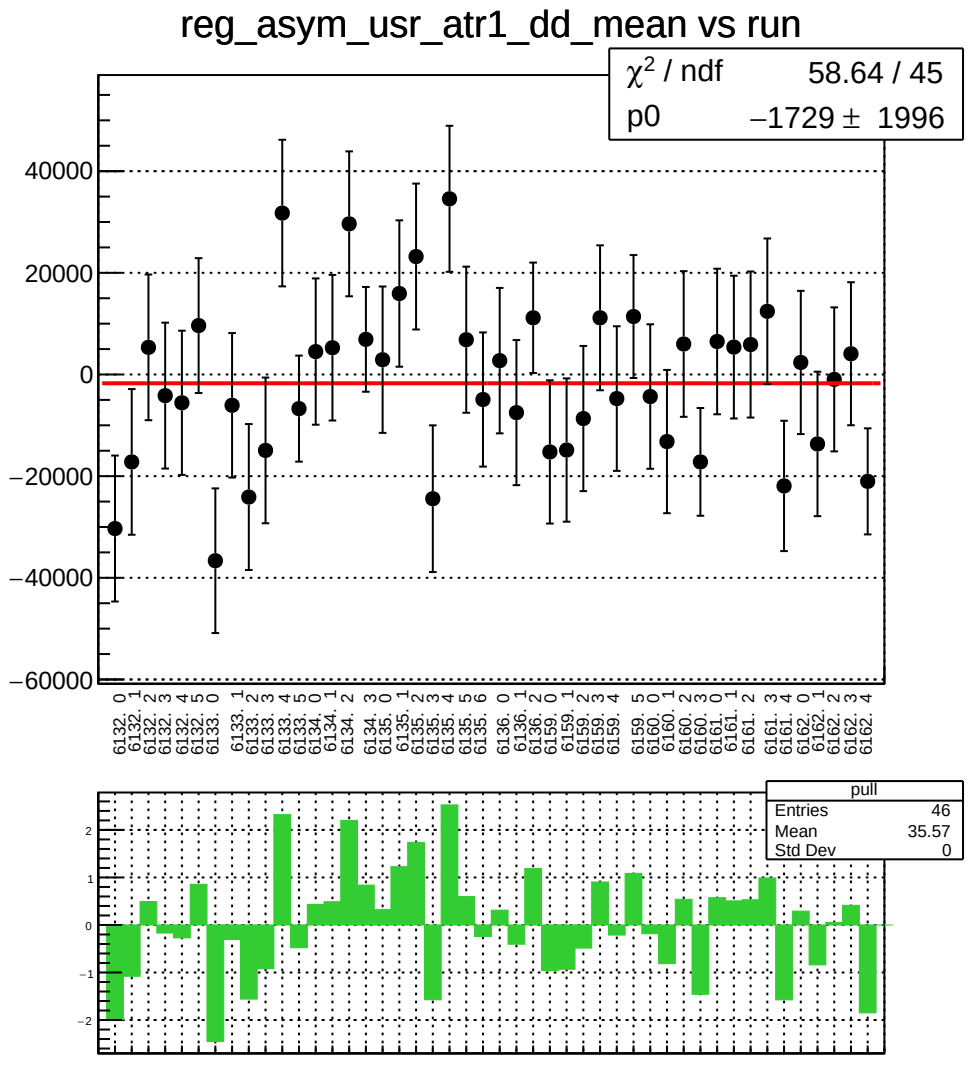

pull1D
Entries 46
Mean 0.02244
Std Dev 1.009

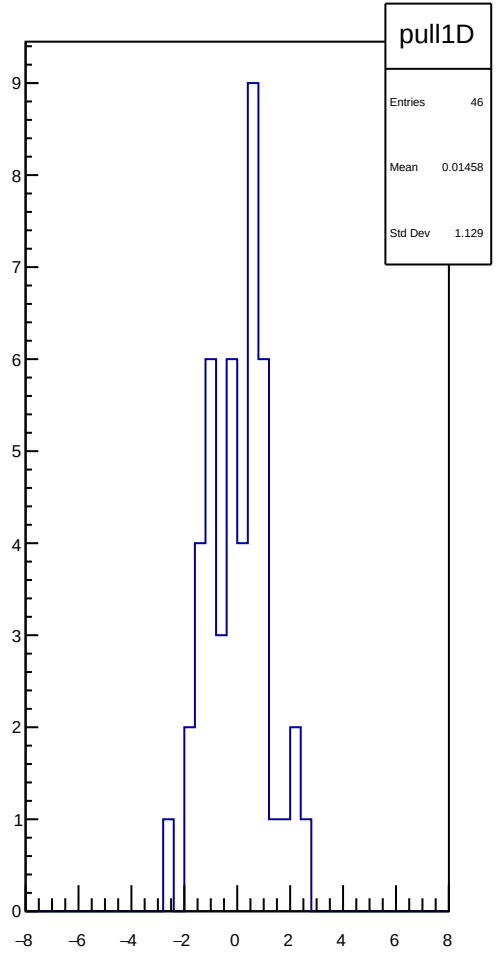

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.204e+05 / 45
p0 69.07 ± 0.07733
160
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

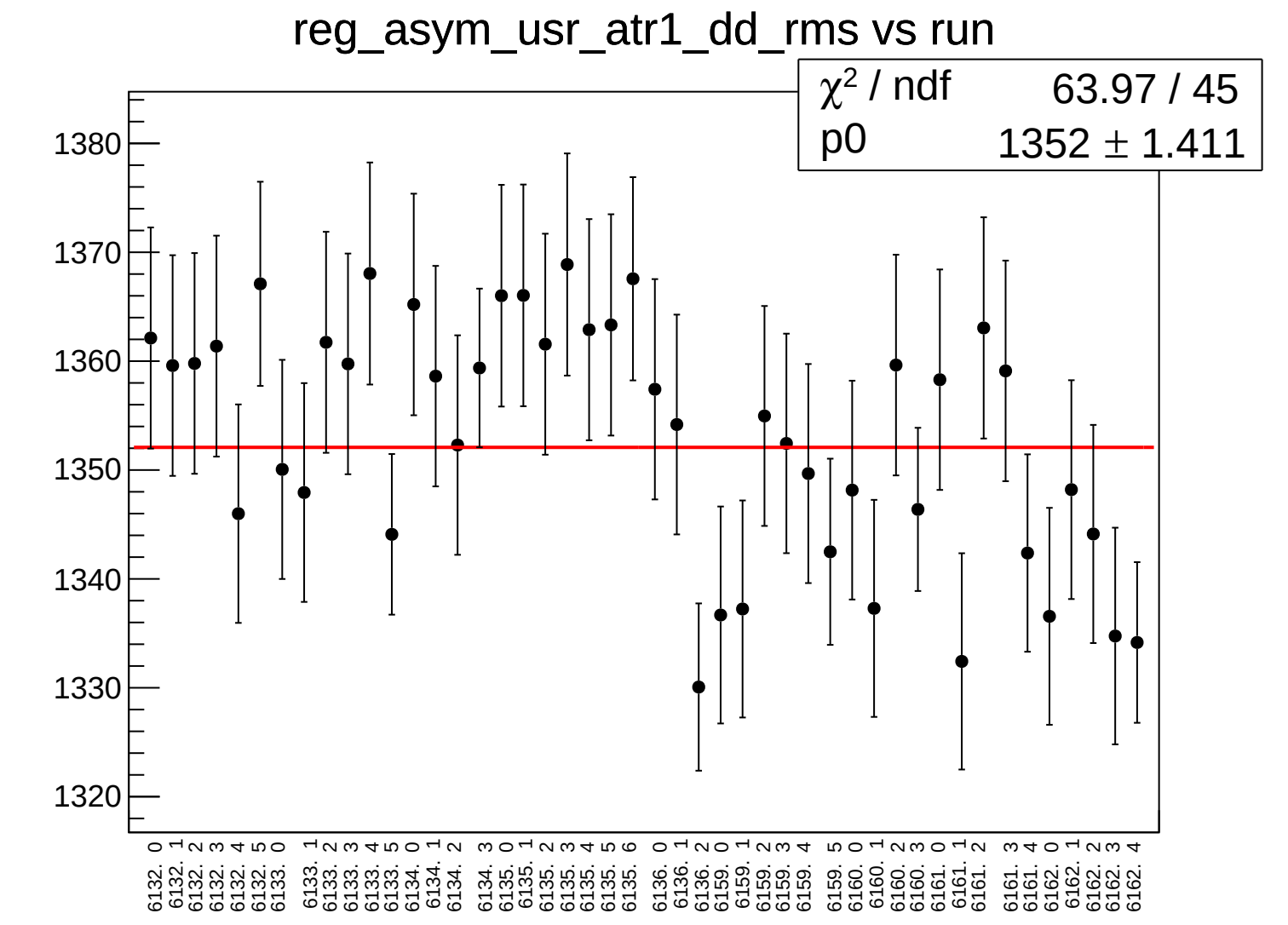

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 57.99 / 45
p0 −2.495e−14 ± 6.373e−14
pull
Entries 46
Mean 33.79
Std Dev 7.936

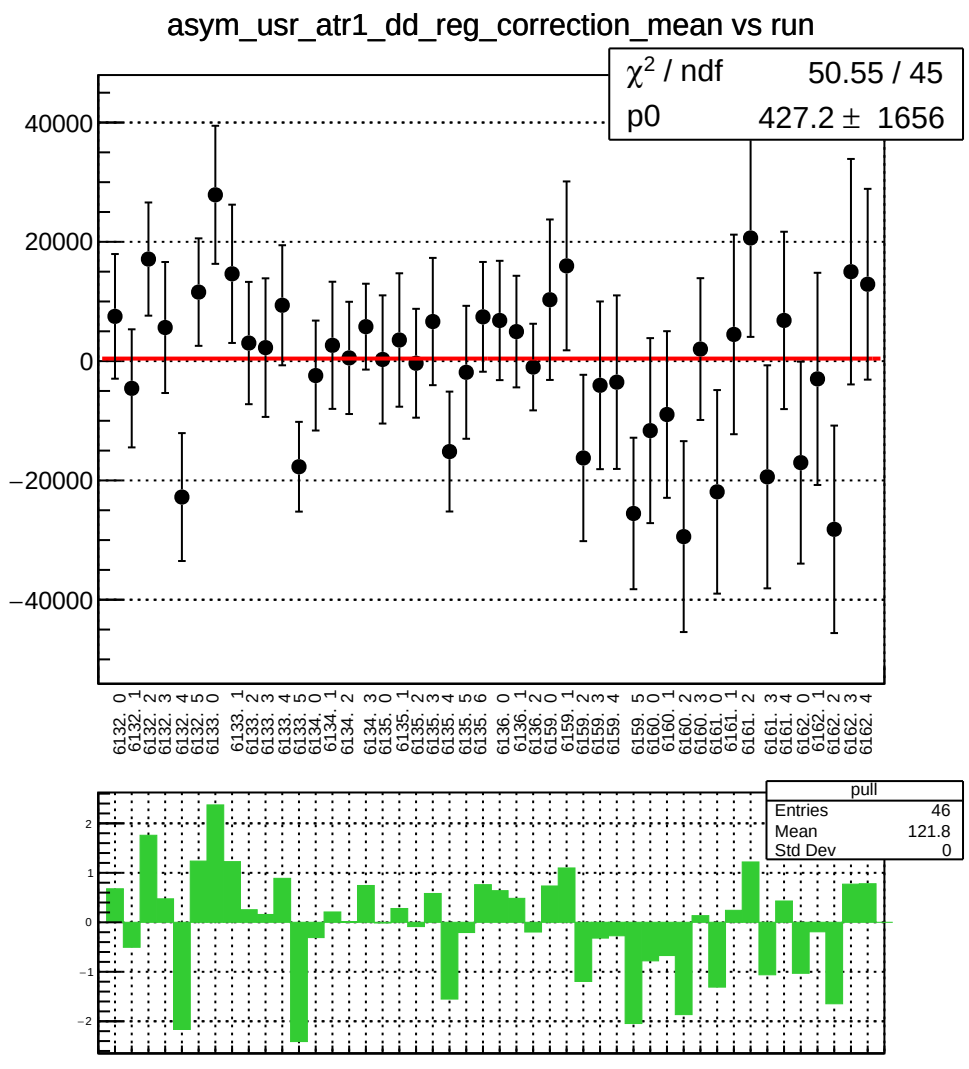

pull1D
Entries 46
Mean 0.2409
Std Dev 1.097

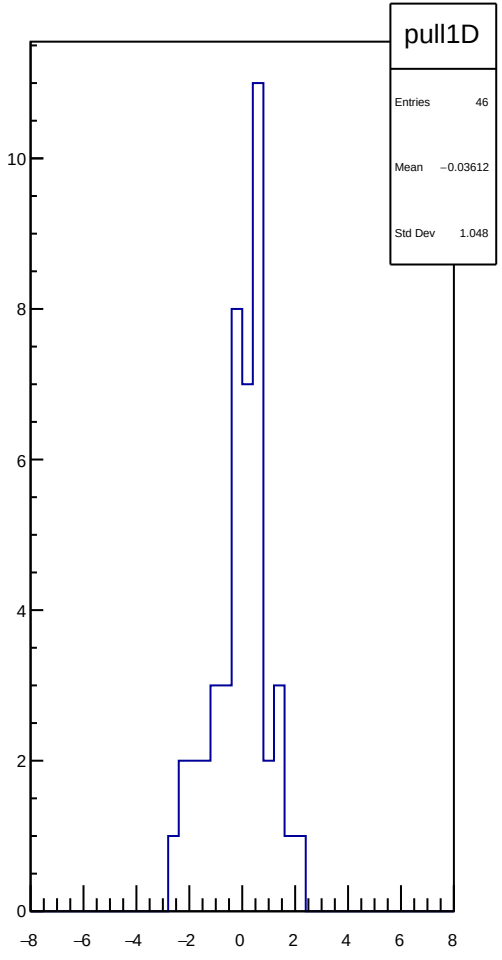

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.984e+05 / 45
p0 2.548e−11 ± 4.506e−14
1
0.8
0.6
0.4
0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

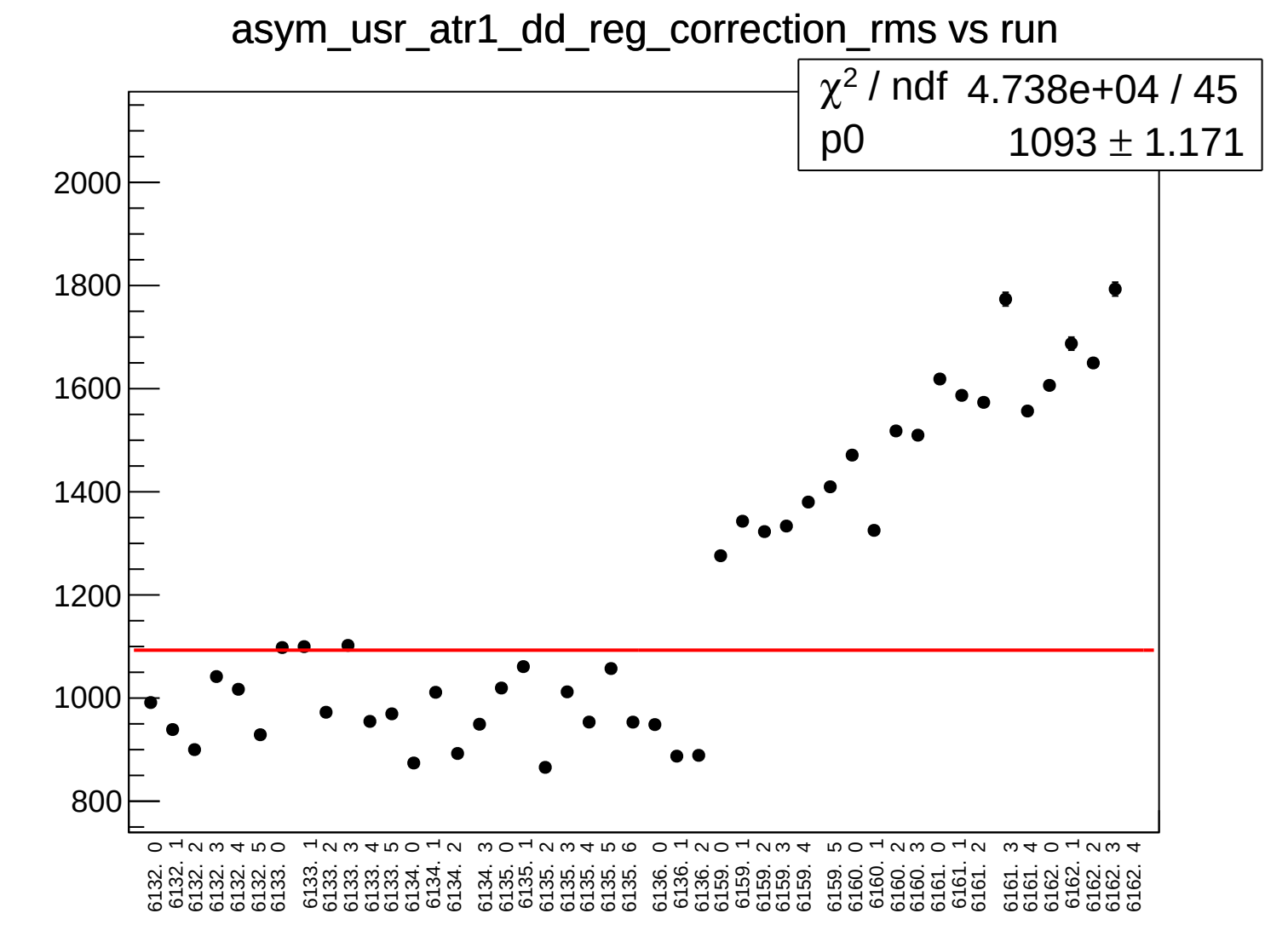

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 58.64 / 45
p0 −1729 ± 1996
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 35.57
Std Dev 0
2
1
0
−1
−2

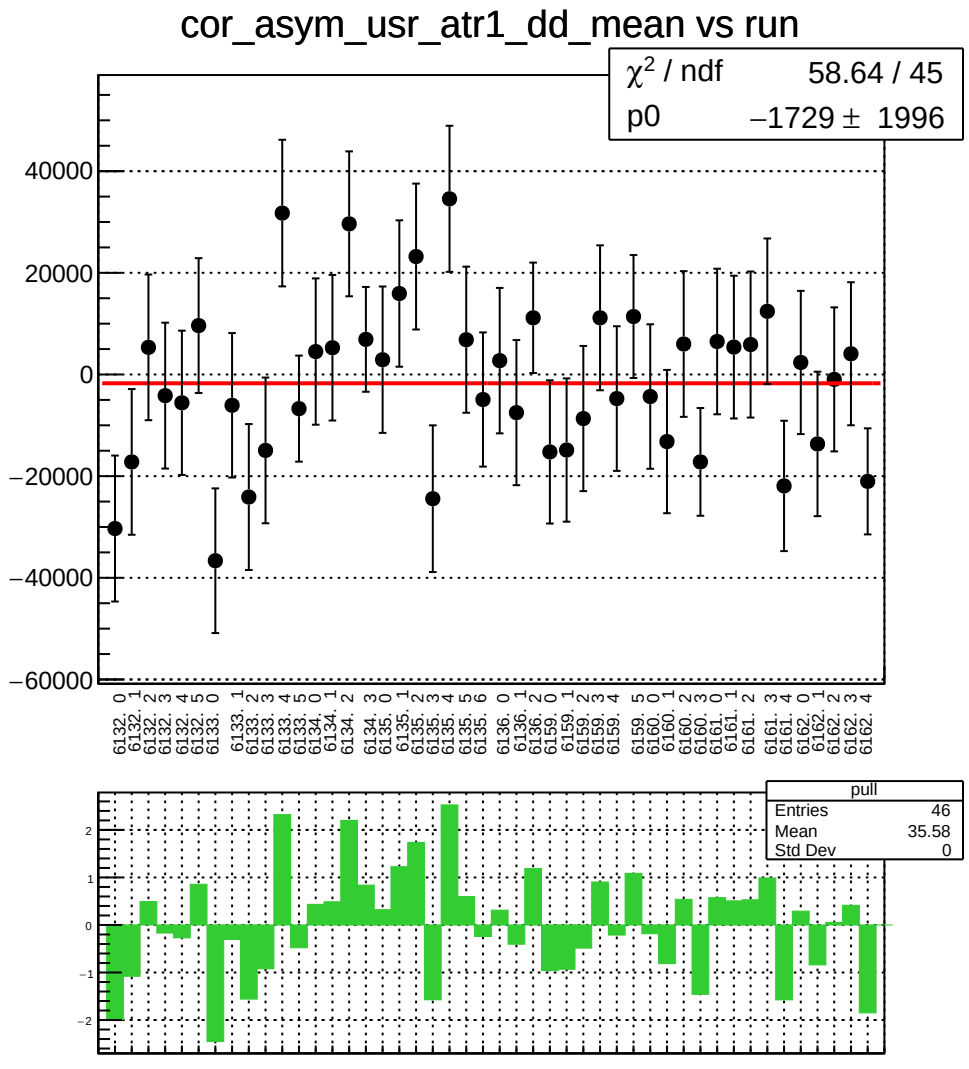

pull1D
Entries 46
Mean 0.01458
Std Dev 1.129
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

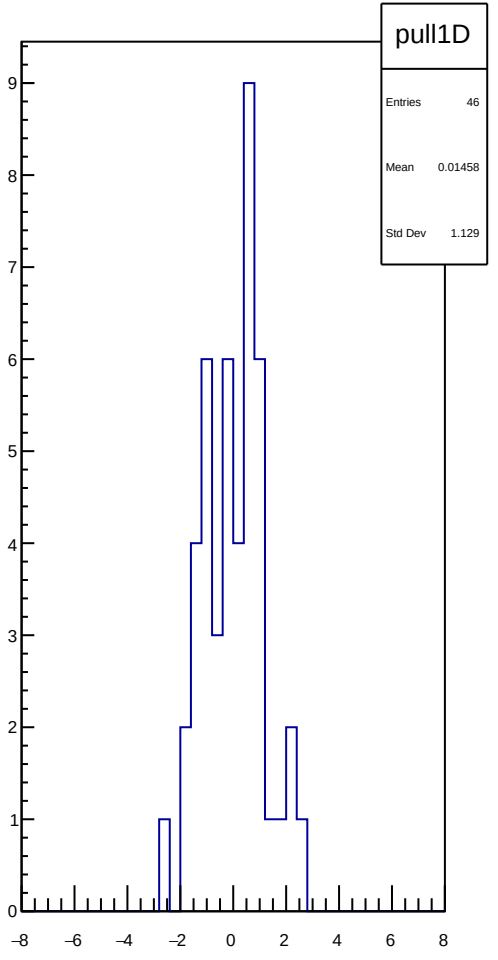

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 63.97 / 45
p0 1352 ± 1.411
1380
1370
1360
1350
1340
1330
1320
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

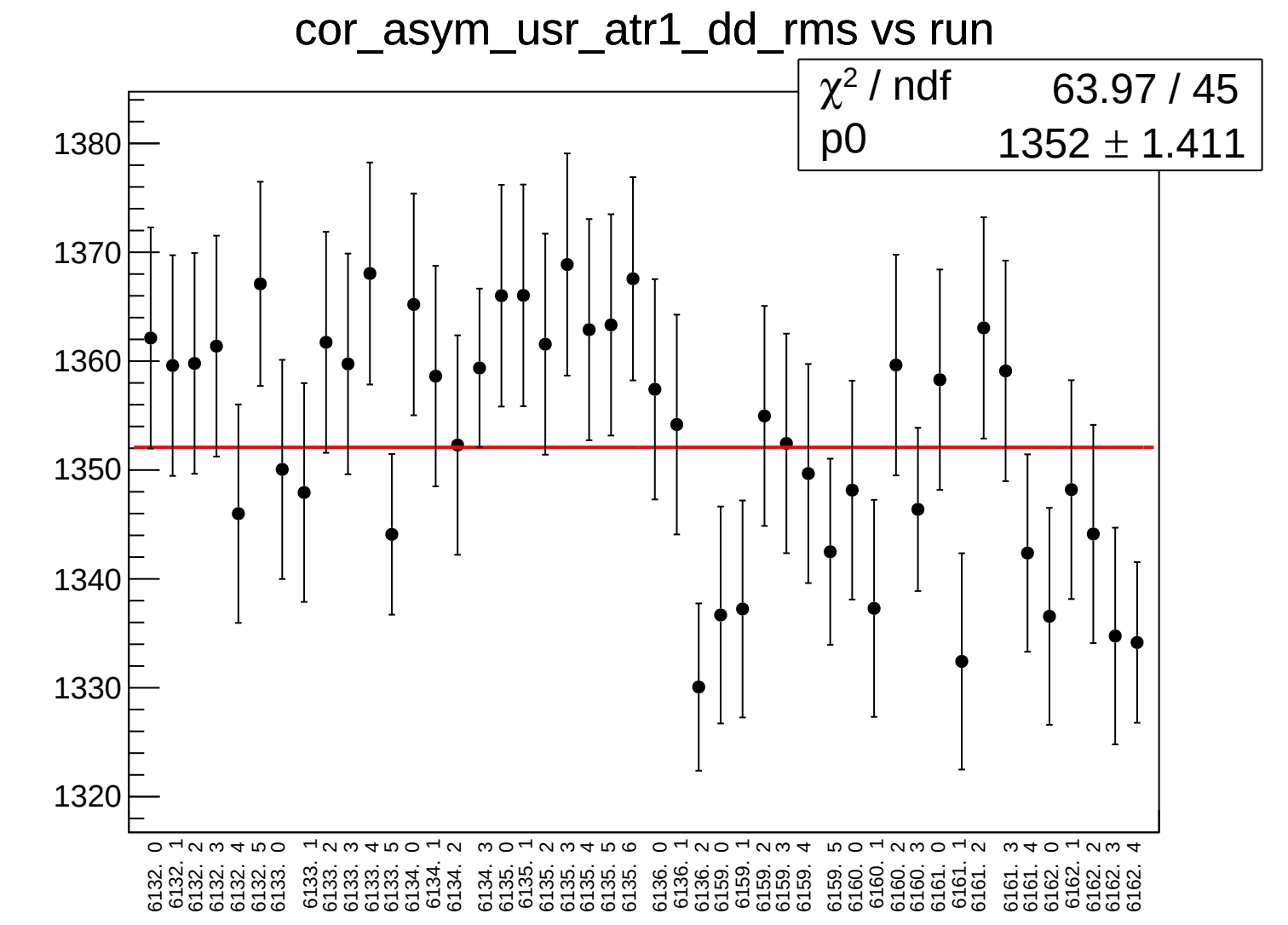

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 50.55 / 45
p0 427.2 ± 1656
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 121.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.03612
Std Dev 1.048
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 4.738e+04 / 45
p0 1093 ± 1.171
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 58.64 / 45
p0 −1729 ± 1996
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 35.58
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.01458
Std Dev 1.129
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 63.97 / 45
p0 1352 ± 1.411
1380
1370
1360
1350
1340
1330
1320
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
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6133. 4
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6134. 0
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6134. 2
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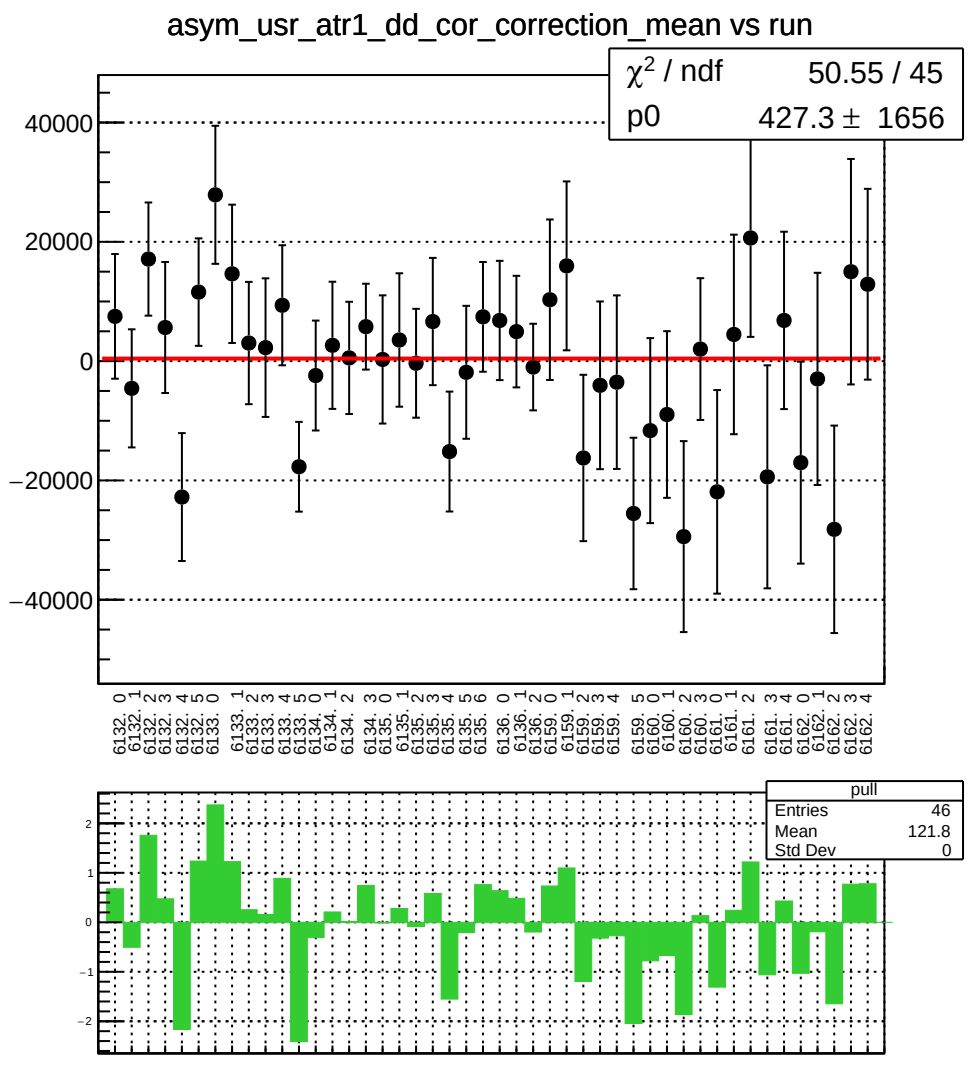
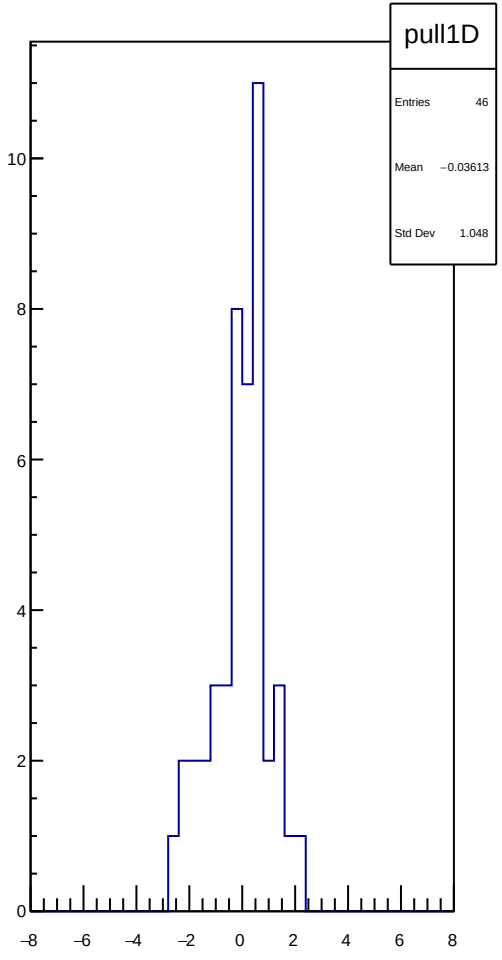
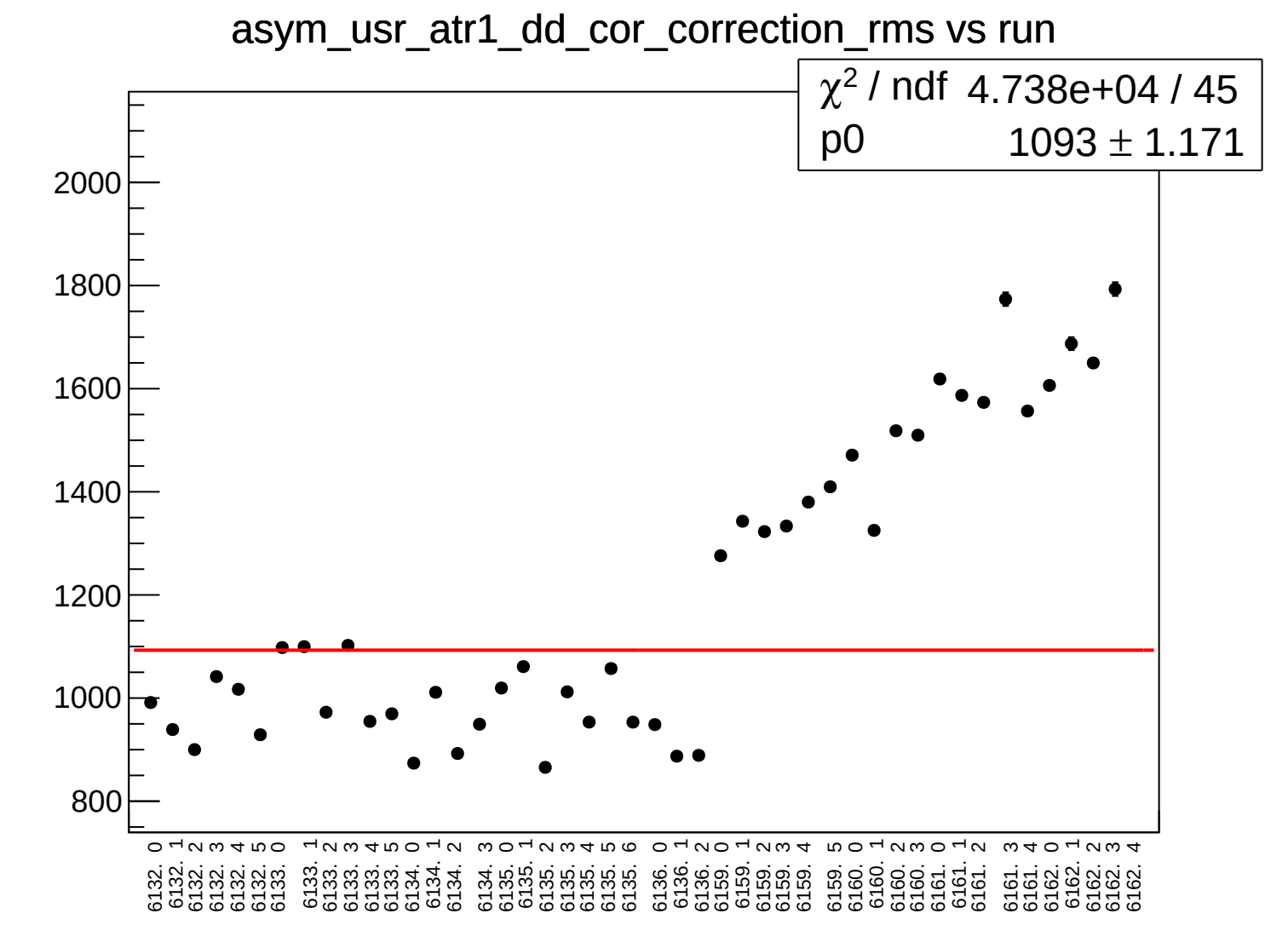
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 50.55 / 45
p0 427.3 ± 1656
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 121.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.03613
Std Dev 1.048
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 4.738e+04 / 45
p0 1093 ± 1.171
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
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6134. 0
6134. 1
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6135. 6
6136. 0
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6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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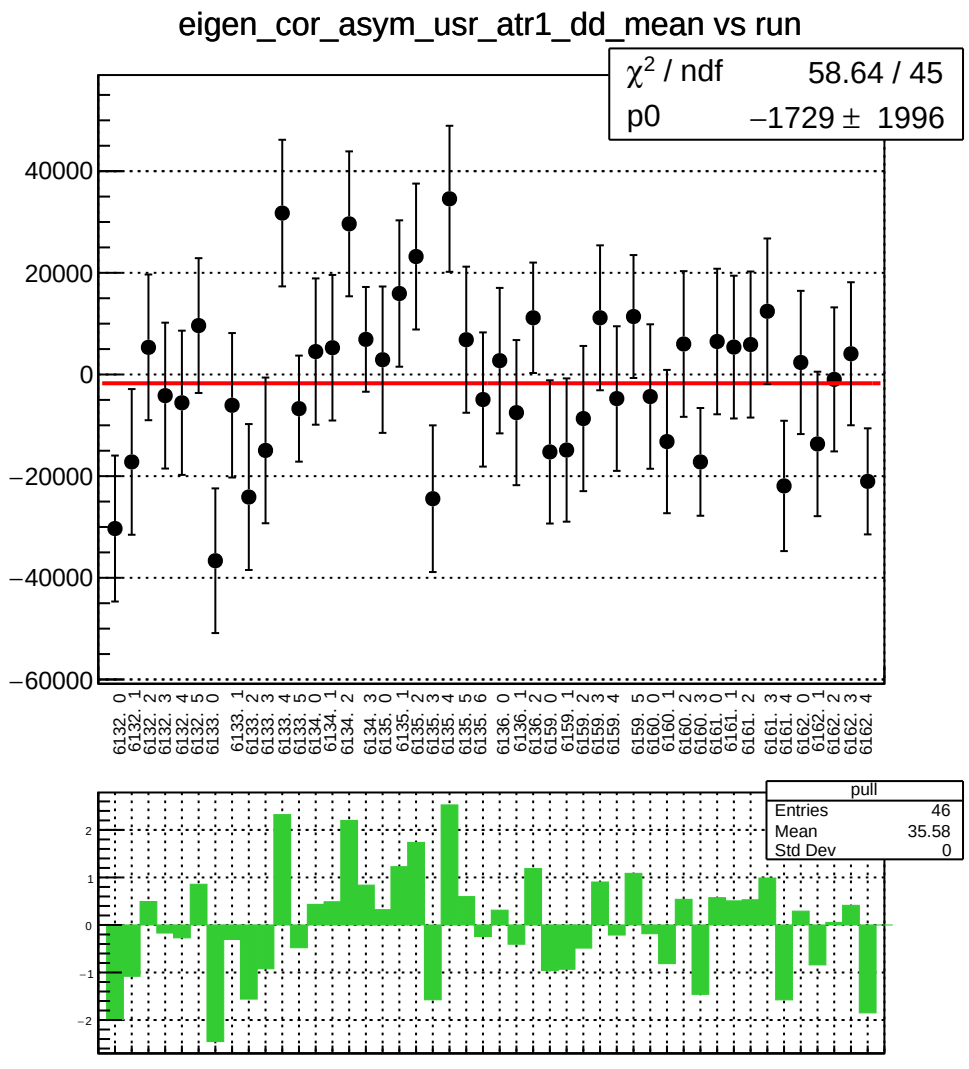
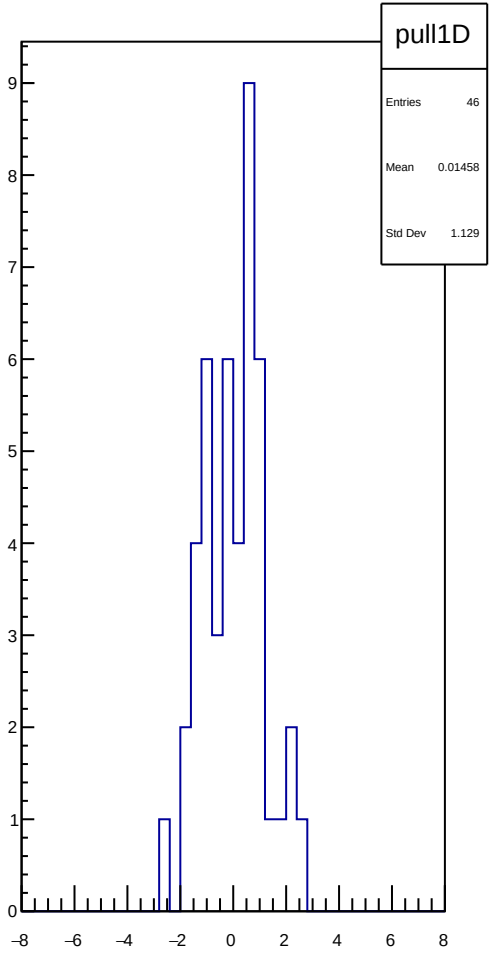
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 58.64 / 45
p0 −1729 ± 1996
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 35.58
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.01458
Std Dev 1.129
9
8
7
6
5
4
3
2
1
0
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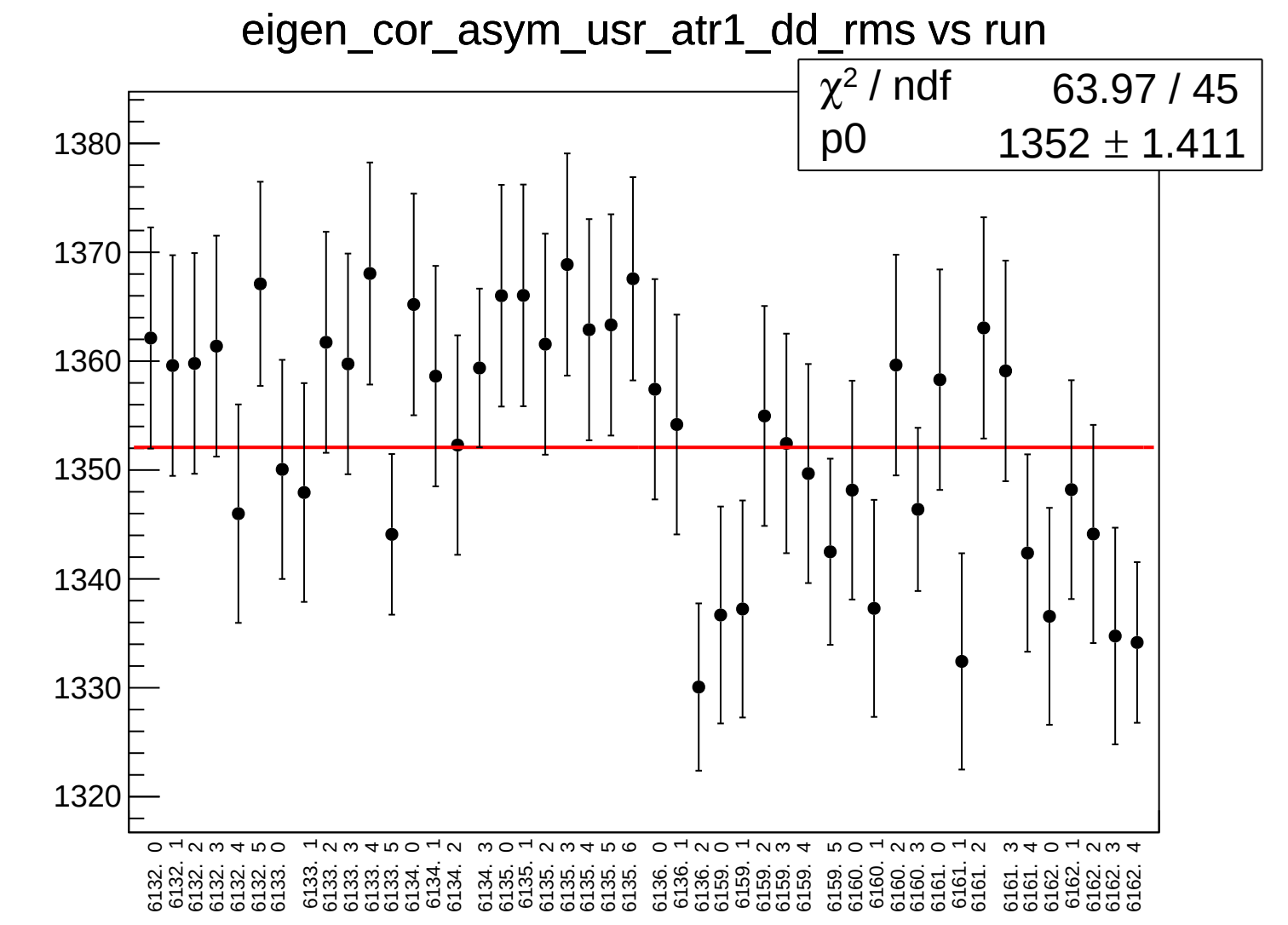
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 63.97 / 45
p0 1352 ± 1.411
1380
1370
1360
1350
1340
1330
1320
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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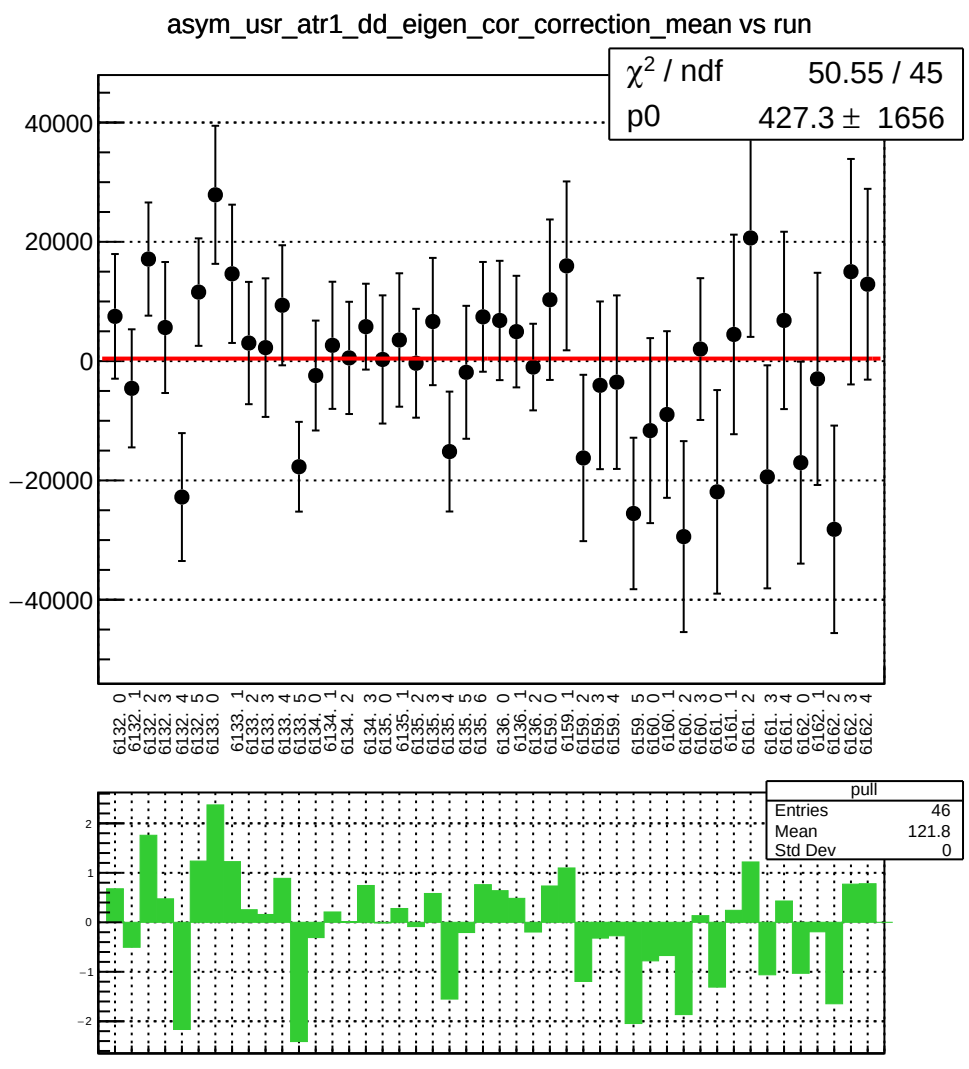
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 50.55 / 45
p0 427.3 ± 1656
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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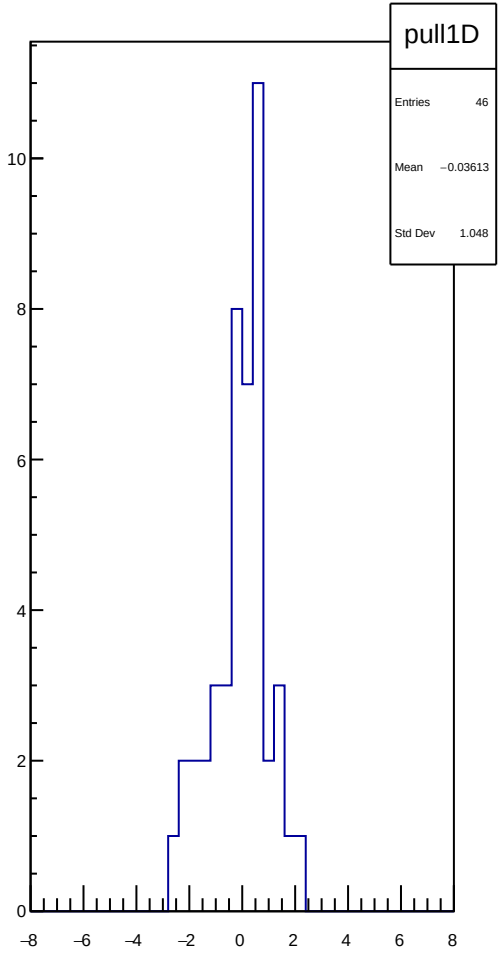
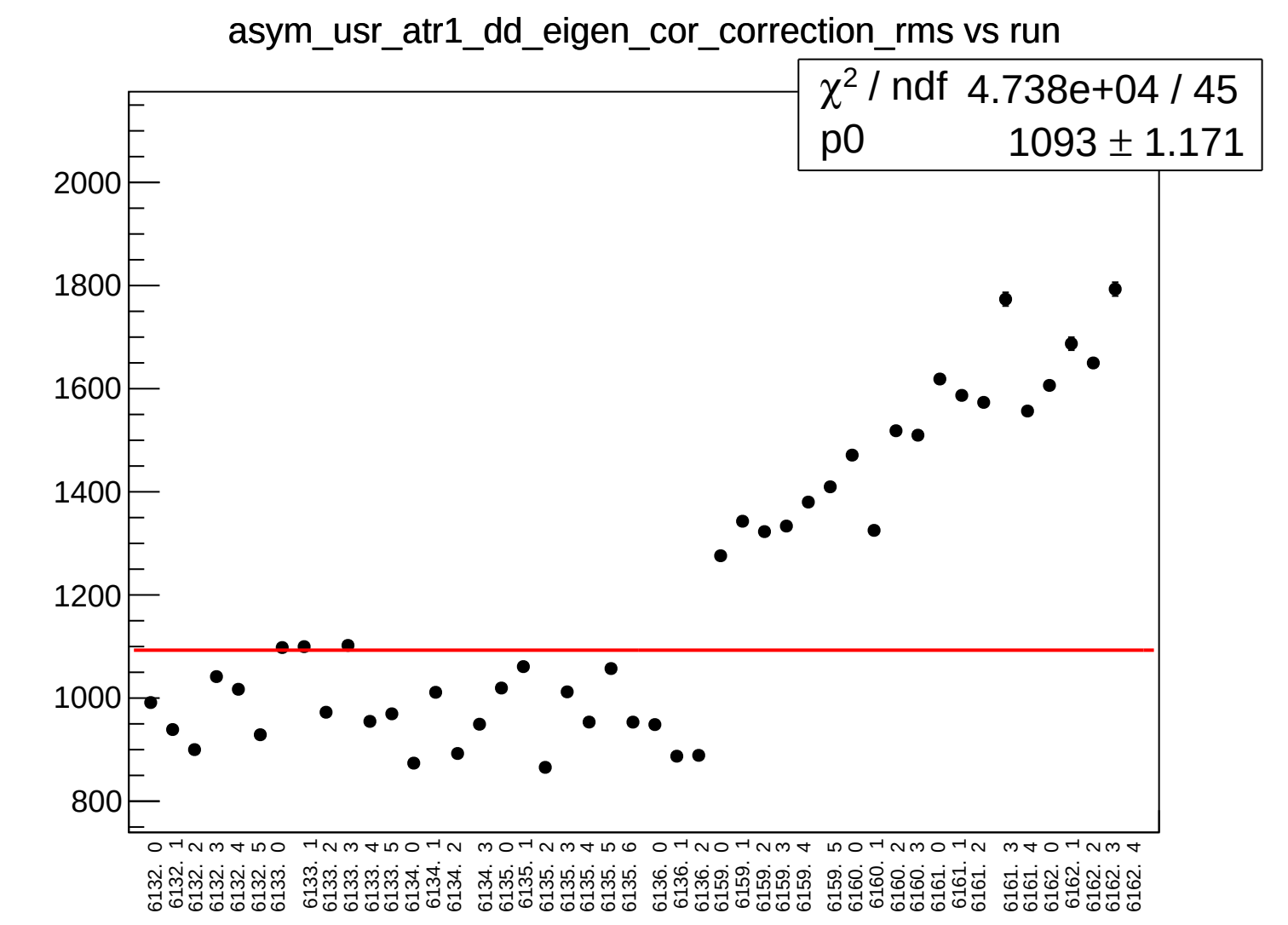
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 121.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.03613
Std Dev 1.048
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.738e+04 / 45
p0 1093 ± 1.171
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
6161. 3
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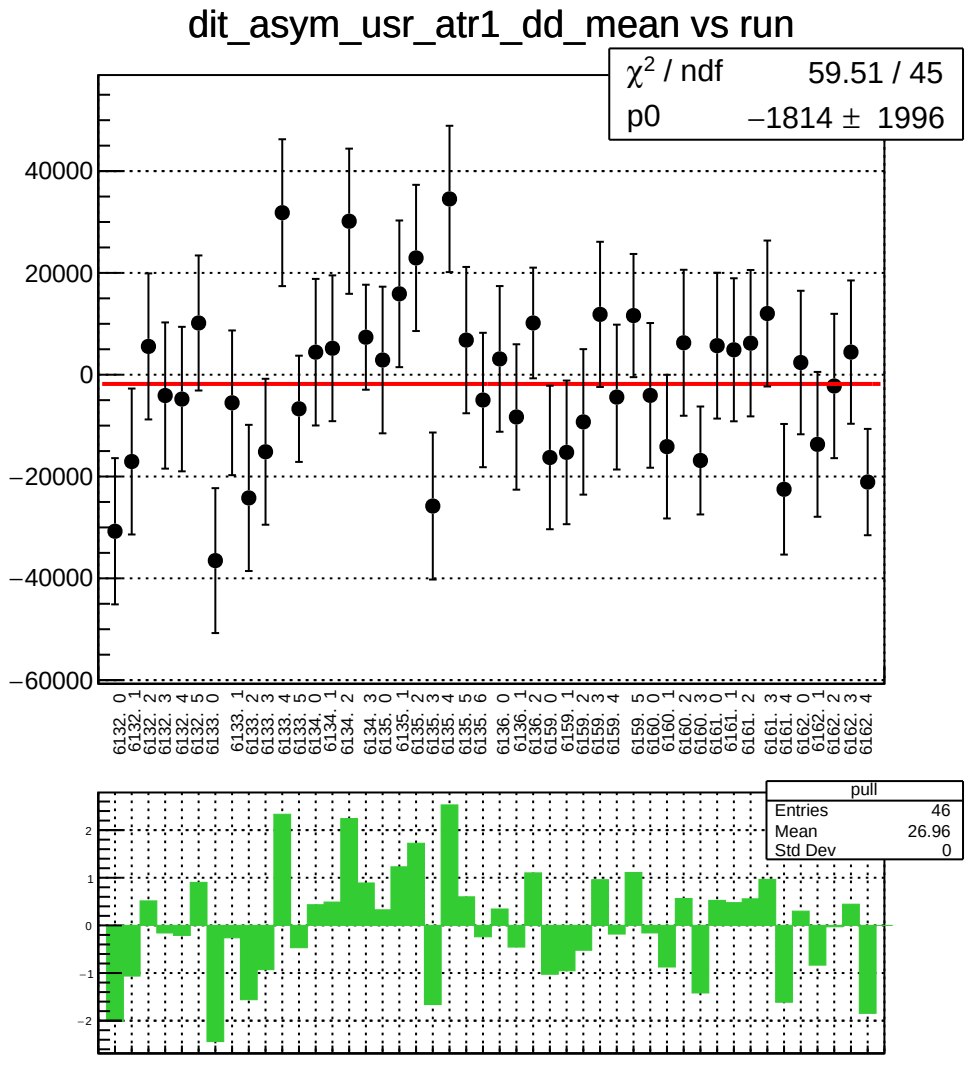
6162. 4


dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 59.51 / 45
p0 −1814 ± 1996
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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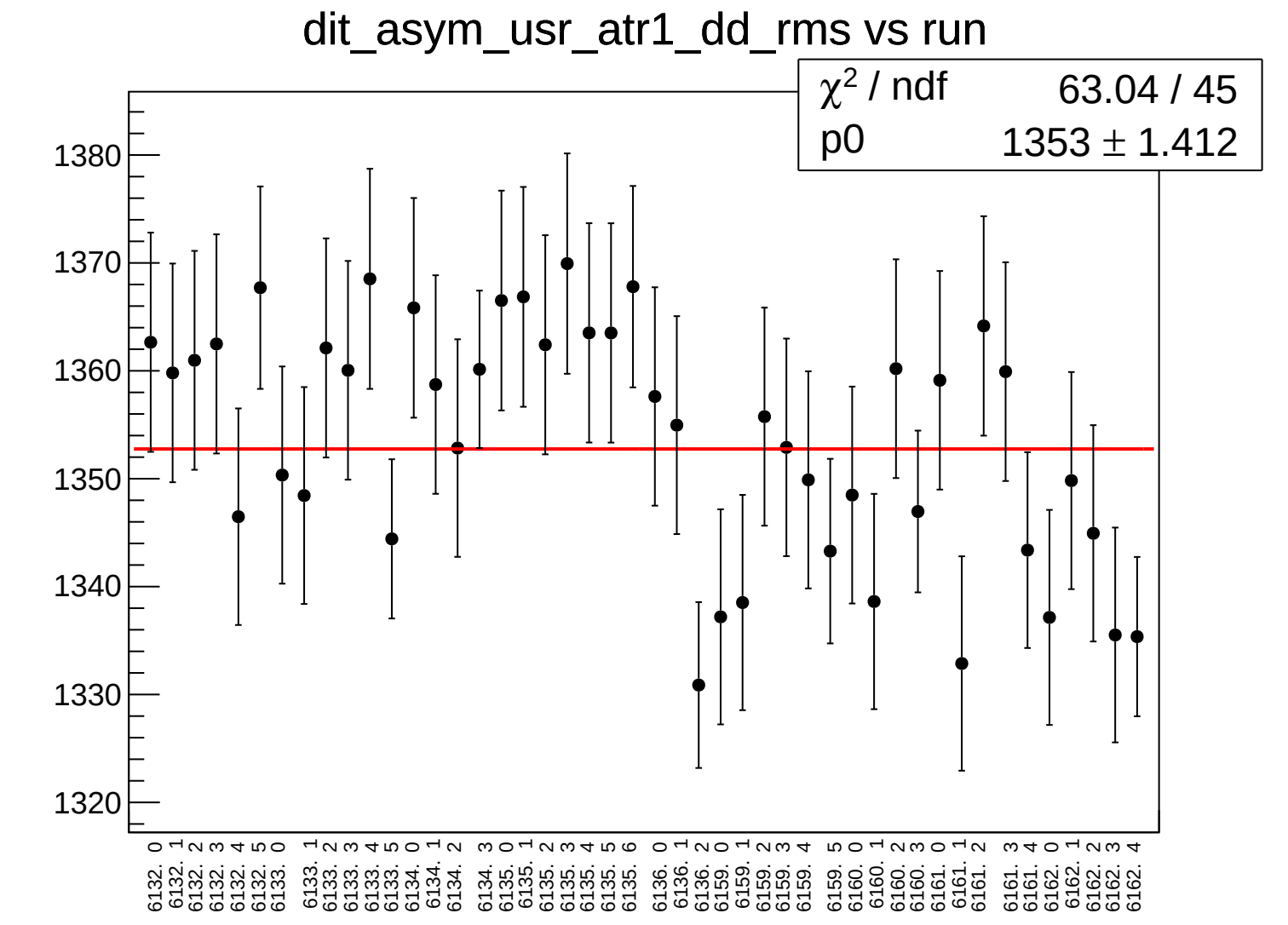
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 26.96
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.0142
Std Dev 1.137
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 63.04 / 45
p0 1353 ± 1.412
1380
1370
1360
1350
1340
1330
1320
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6134. 2
6134. 3
6135. 0
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
6159. 0
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
6161. 3
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6162. 0
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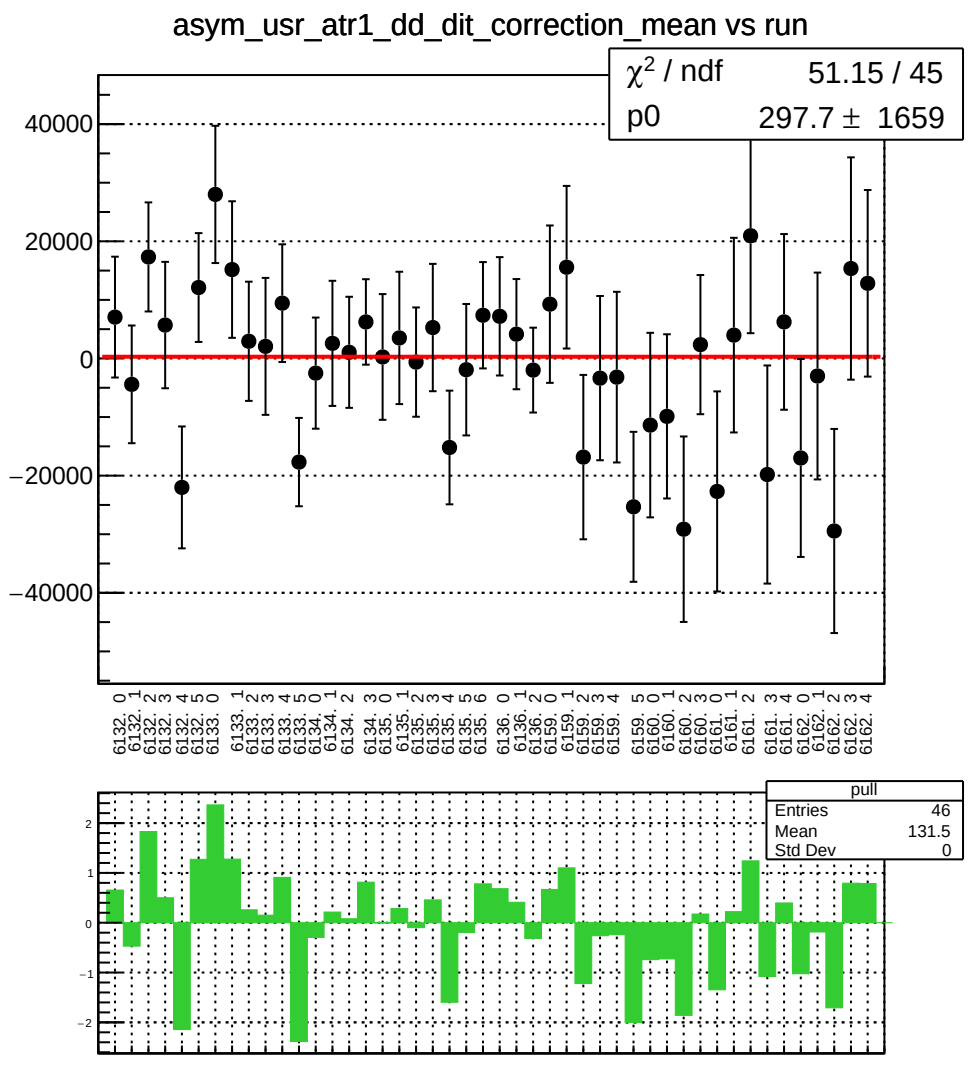
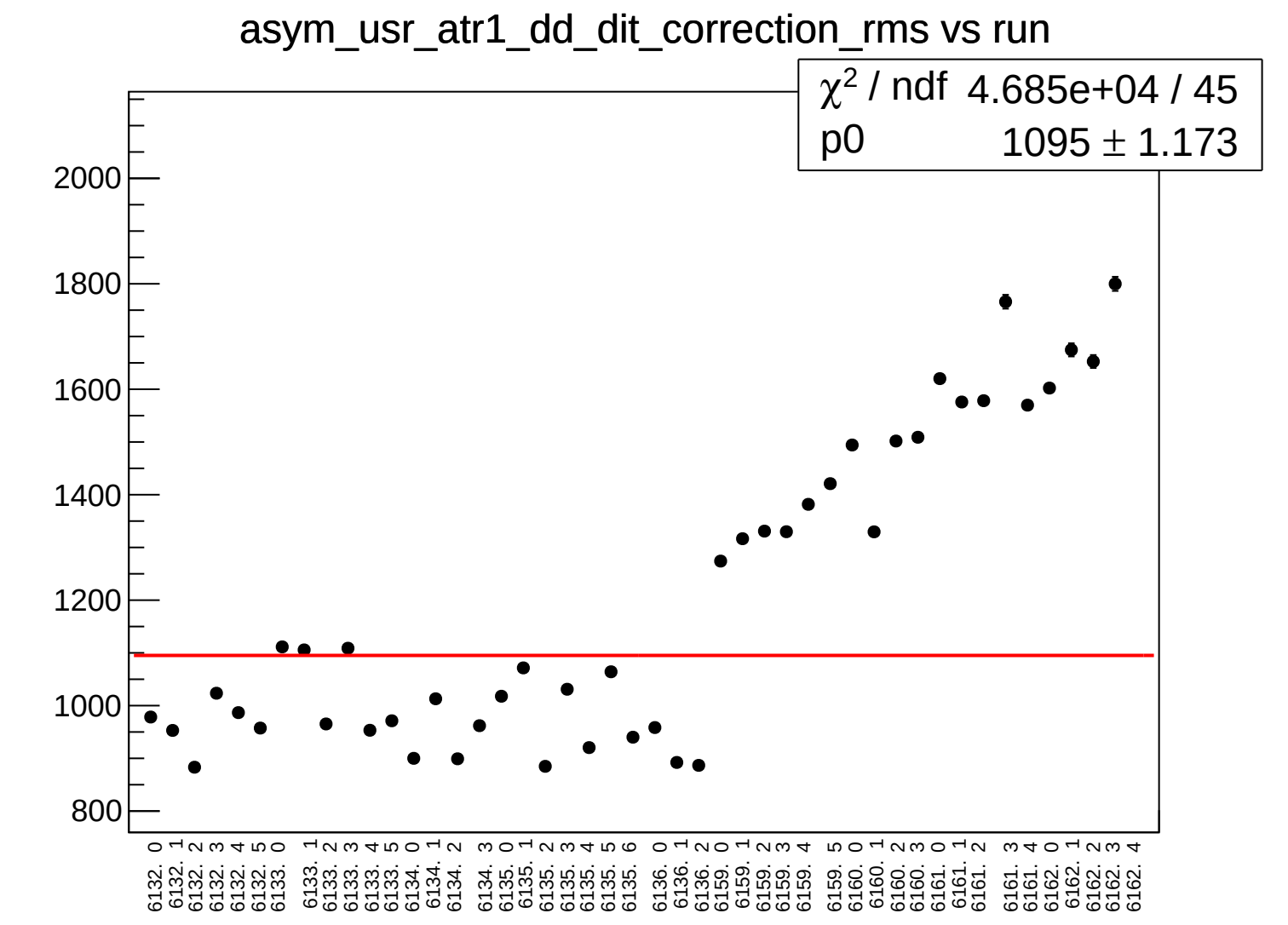
6162. 2
6162. 3
6162. 4


asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 51.15 / 45
p0 297.7 ± 1659
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 131.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.03418
Std Dev 1.054
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 4.685e+04 / 45
p0 1095 ± 1.173
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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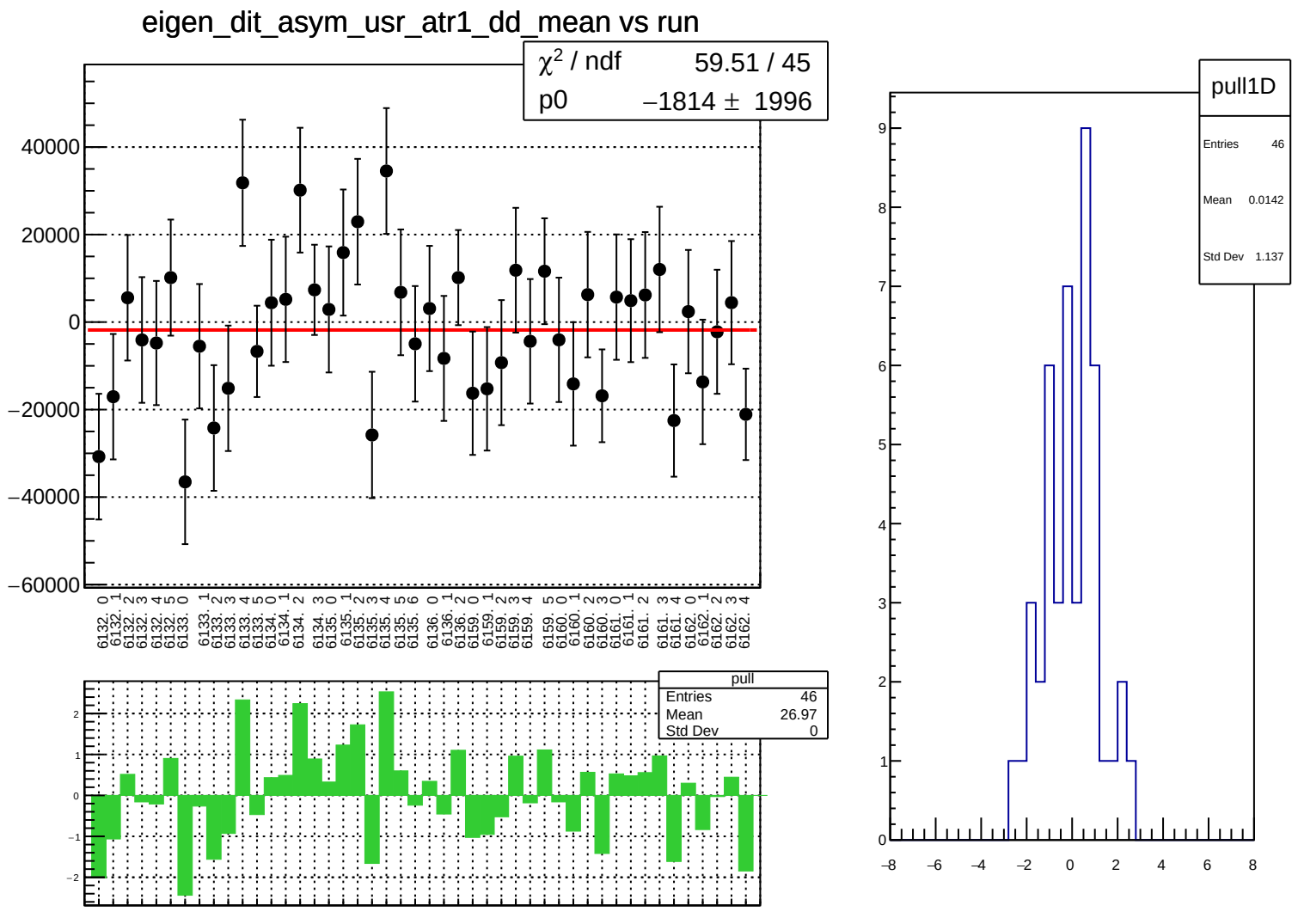
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 59.51 / 45
p0 −1814 ± 1996
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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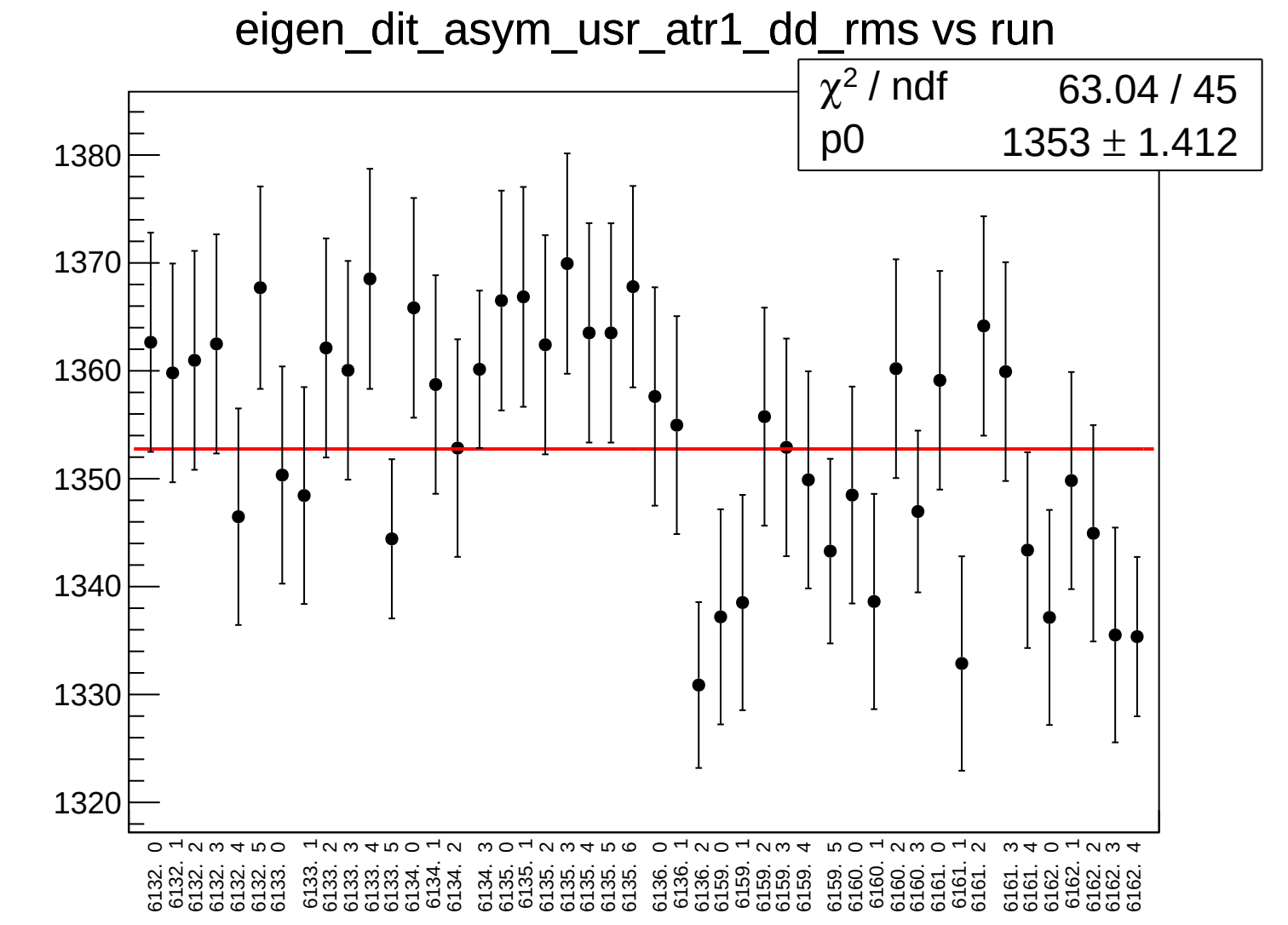
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 26.97
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.0142
Std Dev 1.137
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 63.04 / 45
p0 1353 ± 1.412
1380
1370
1360
1350
1340
1330
1320
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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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
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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6161. 4
6162. 0
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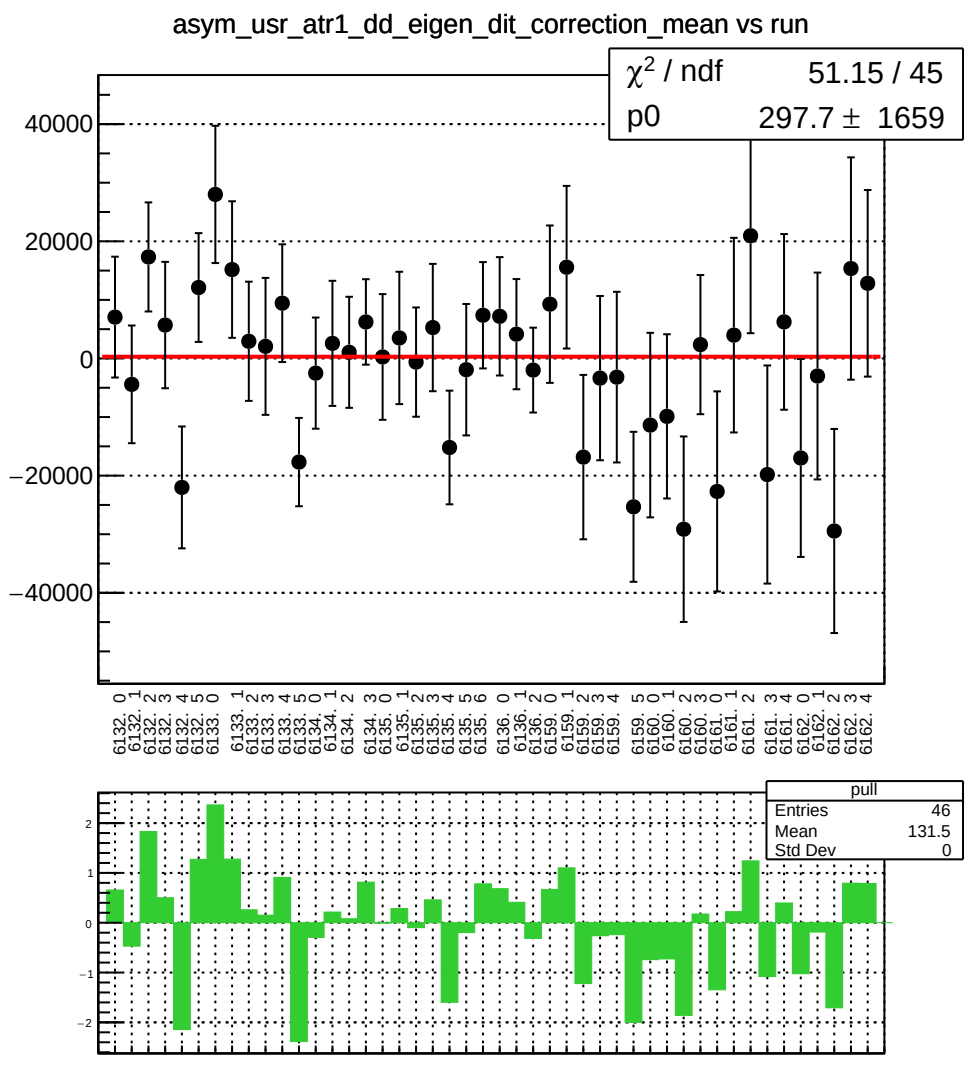
6162. 2
6162. 3
6162. 4


asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 51.15 / 45
p0 297.7 ± 1659
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
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6133. 5
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6135. 5
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6136. 0
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6160. 1
6160. 2
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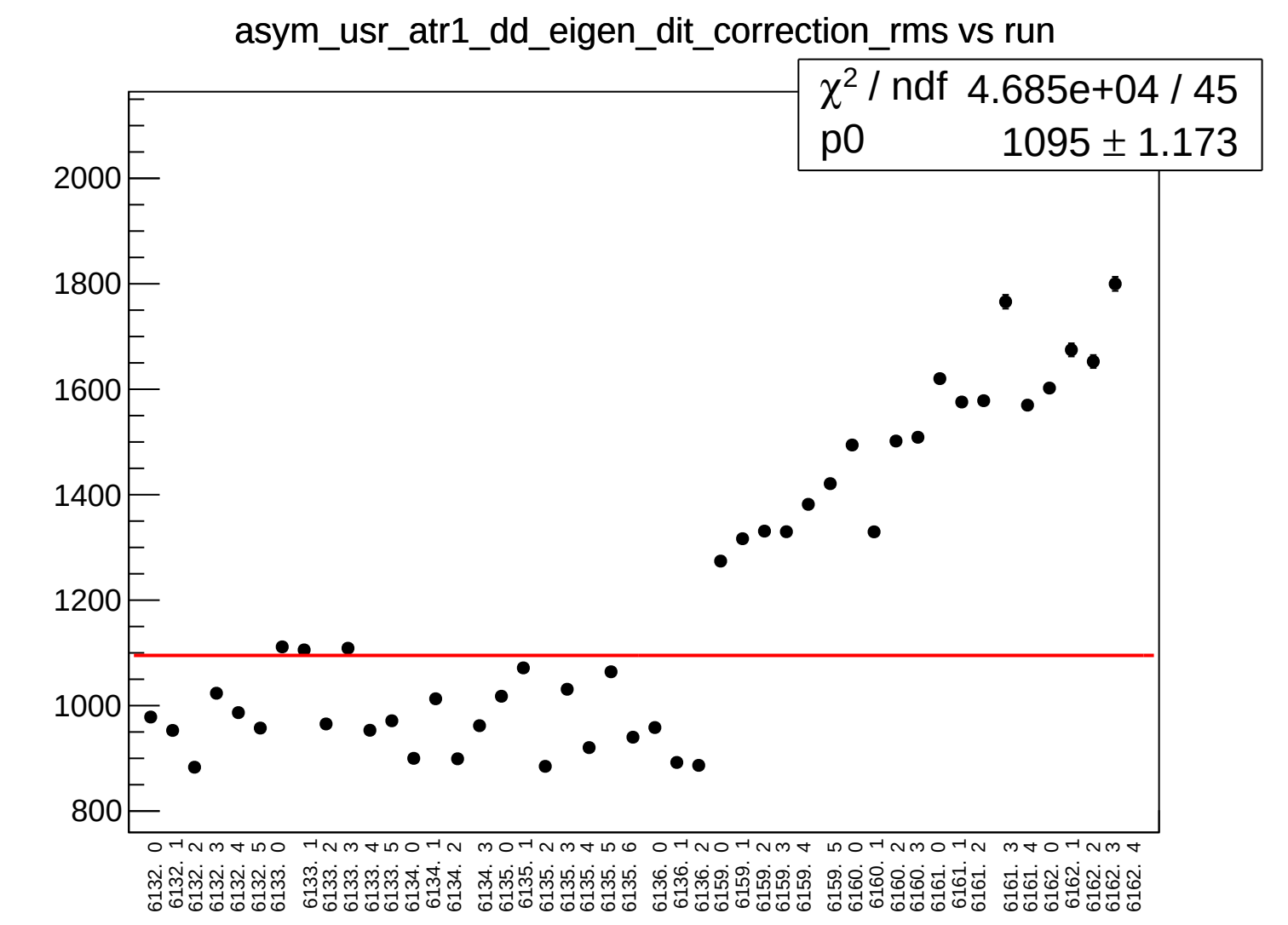
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 131.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.03418
Std Dev 1.054
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 4.685e+04 / 45
p0 1095 ± 1.173
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
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6161. 4
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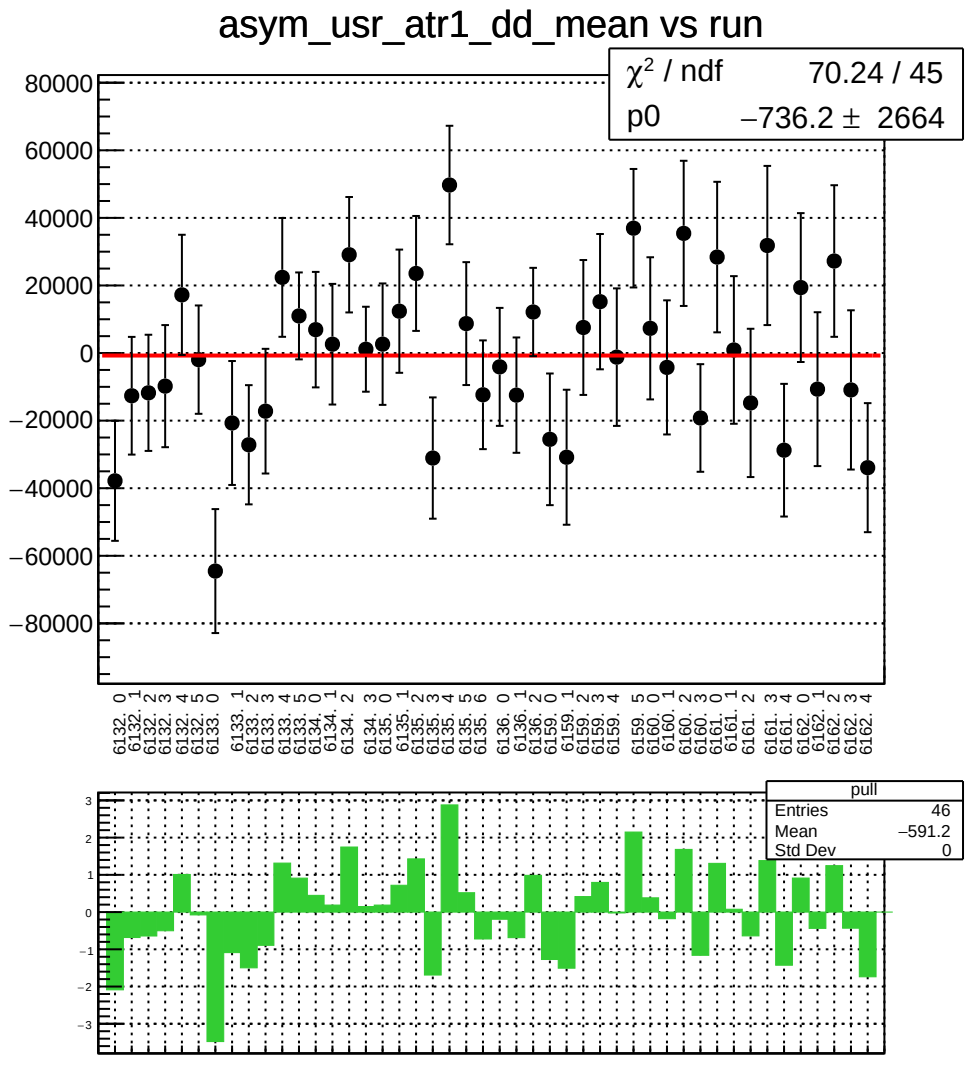
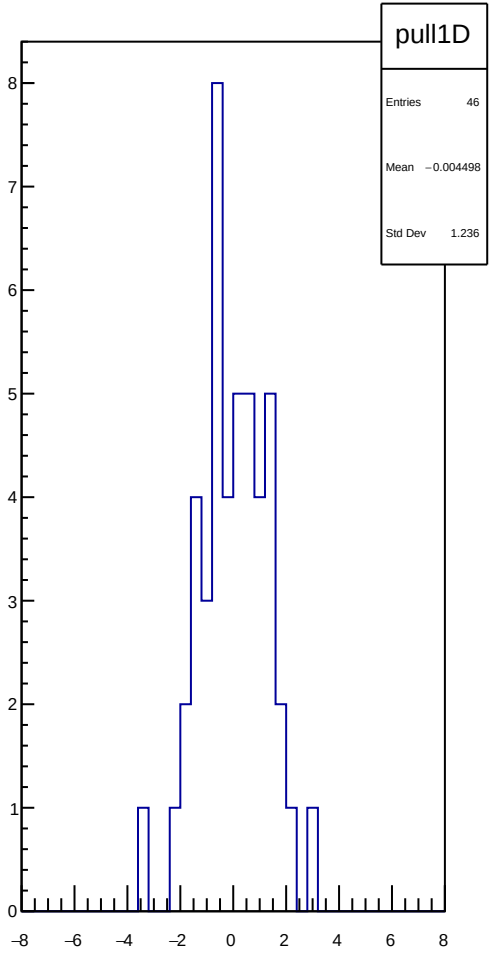
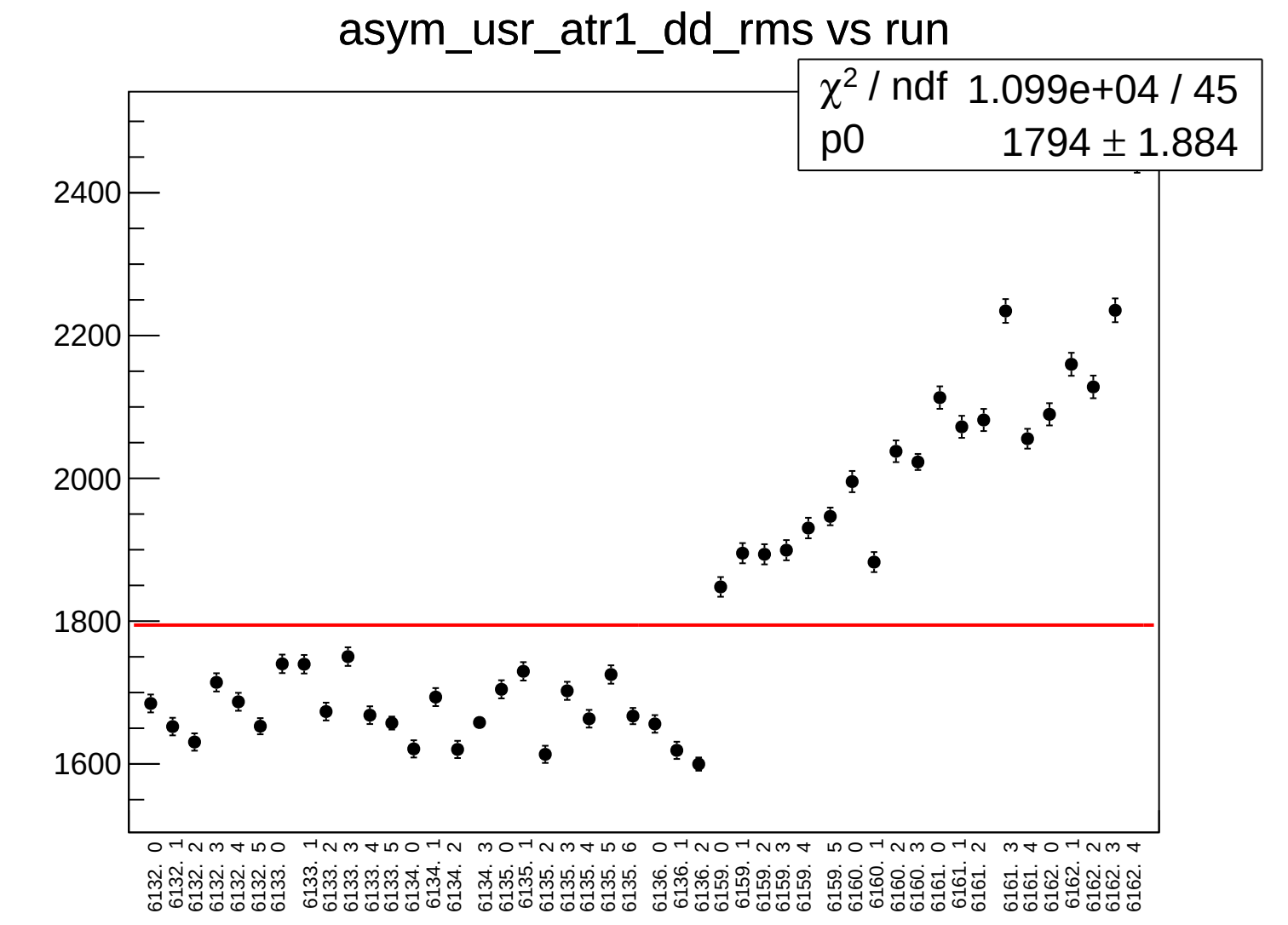
6162. 4


asym_usr_atr1_dd_mean vs run
χ² / ndf 70.24 / 45
p0 −736.2 ± 2664
pull
Entries 46
Mean −591.2
Std Dev 0


pull1D
Entries 46
Mean −0.004498
Std Dev 1.236


asym_usr_atr1_dd_rms vs run
χ² / ndf 1.099e+04 / 45
p0 1794 ± 1.884
2400
2200
2000
1800
1600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6136. 2
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6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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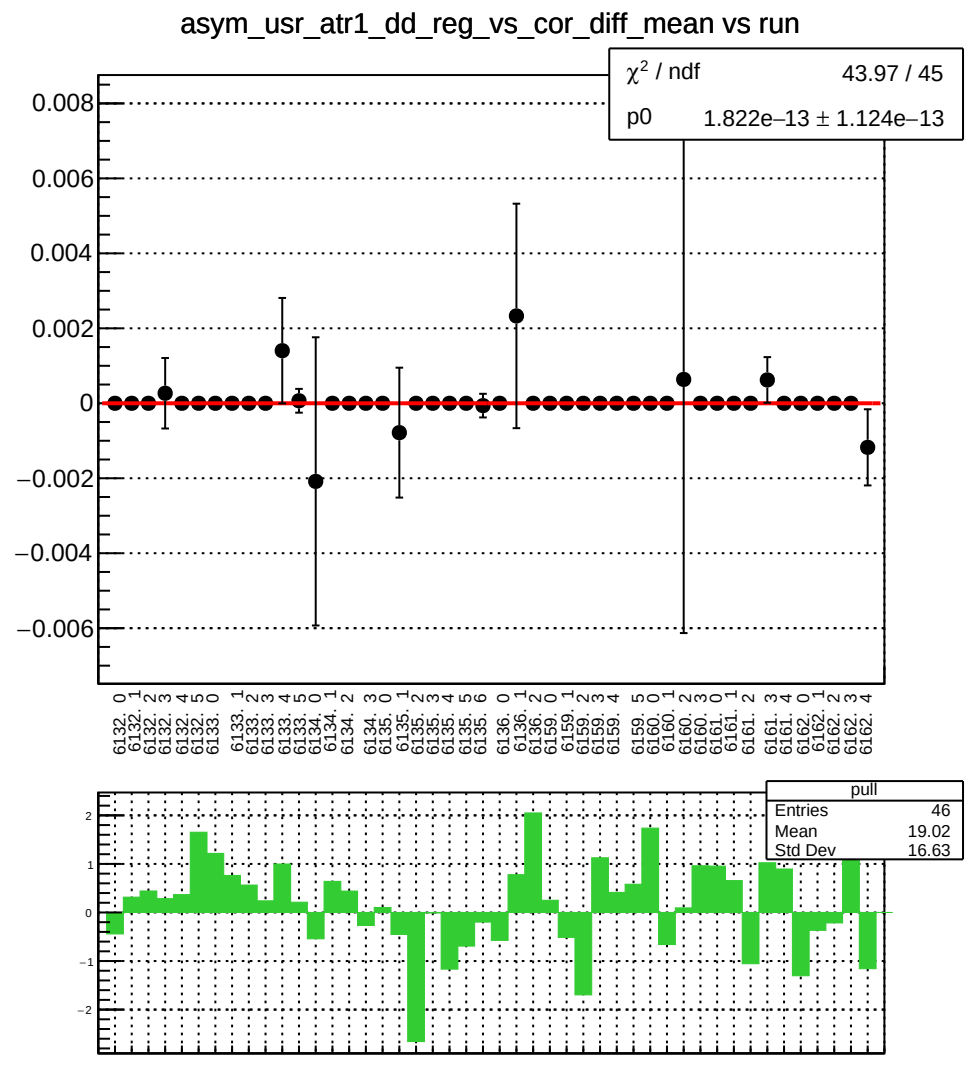
6162. 4


asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 43.97 / 45
p0 1.822e−13 ± 1.124e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
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6133. 4
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6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 19.02
Std Dev 16.63
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.1739
Std Dev 0.9621
9
8
7
6
5
4
3
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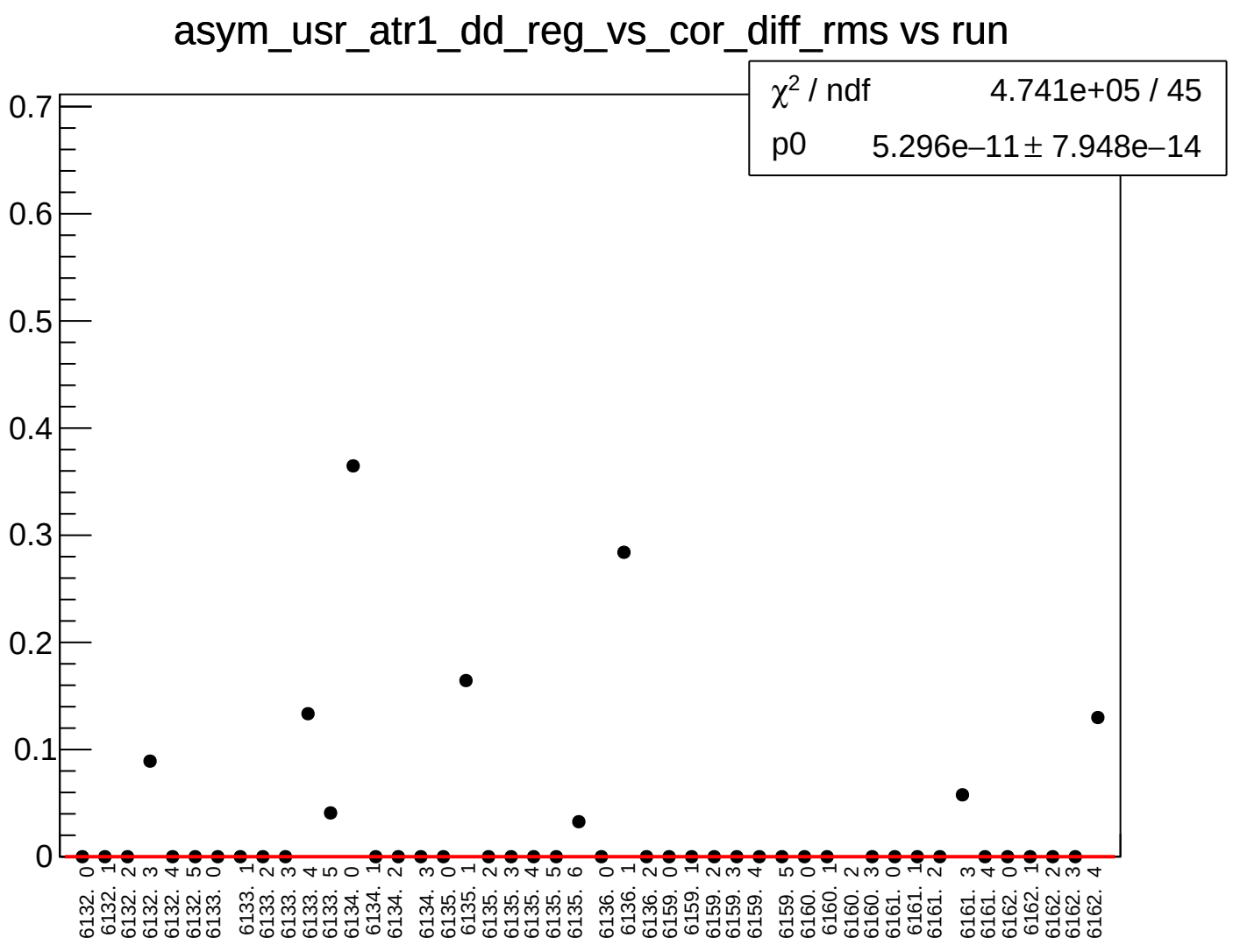
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.741e+05 / 45
p0 5.296e−11 ± 7.948e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 2
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6133. 4
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6134. 0
6134. 1
6134. 2
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6135. 0
6135. 1
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6160. 1
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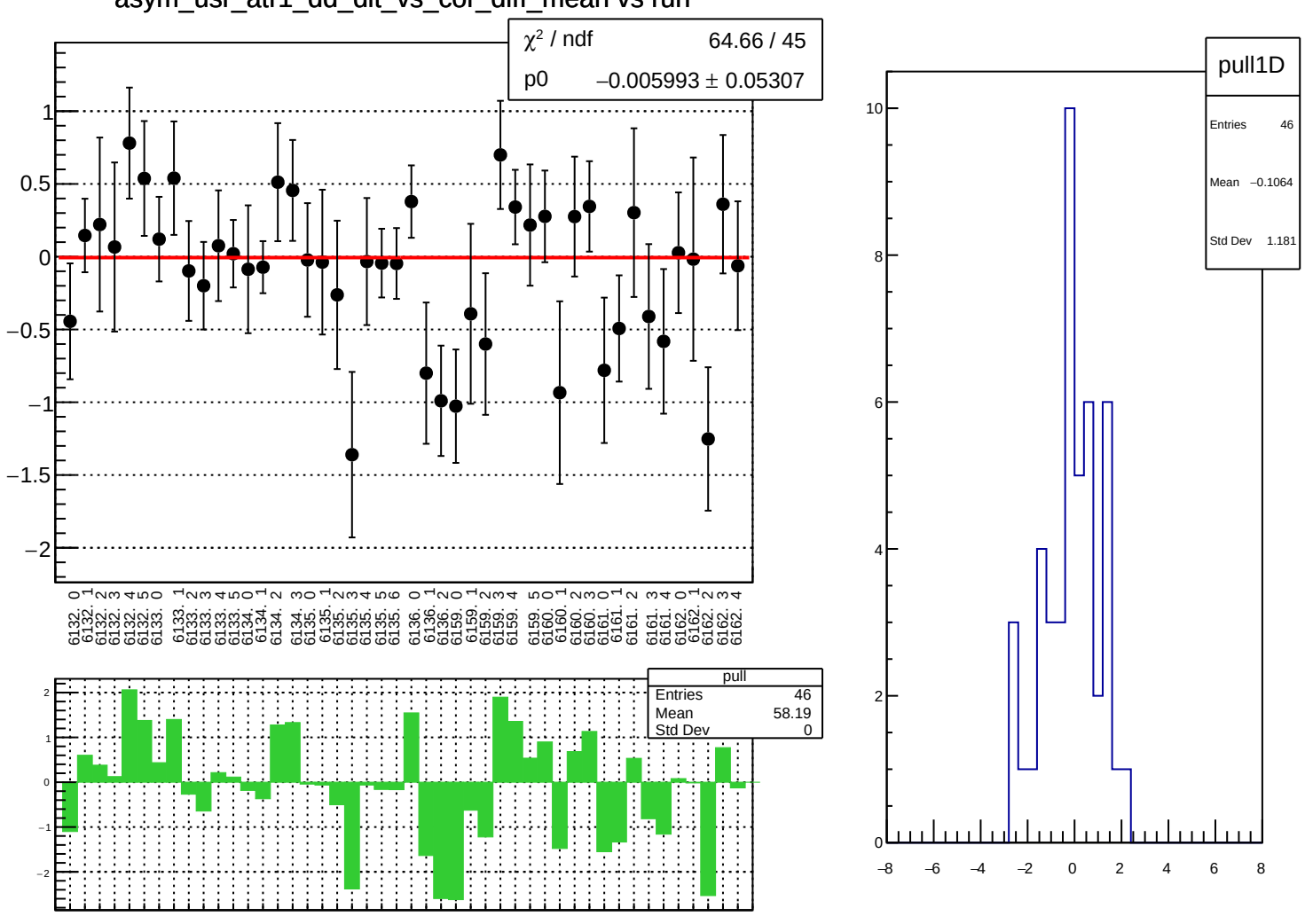
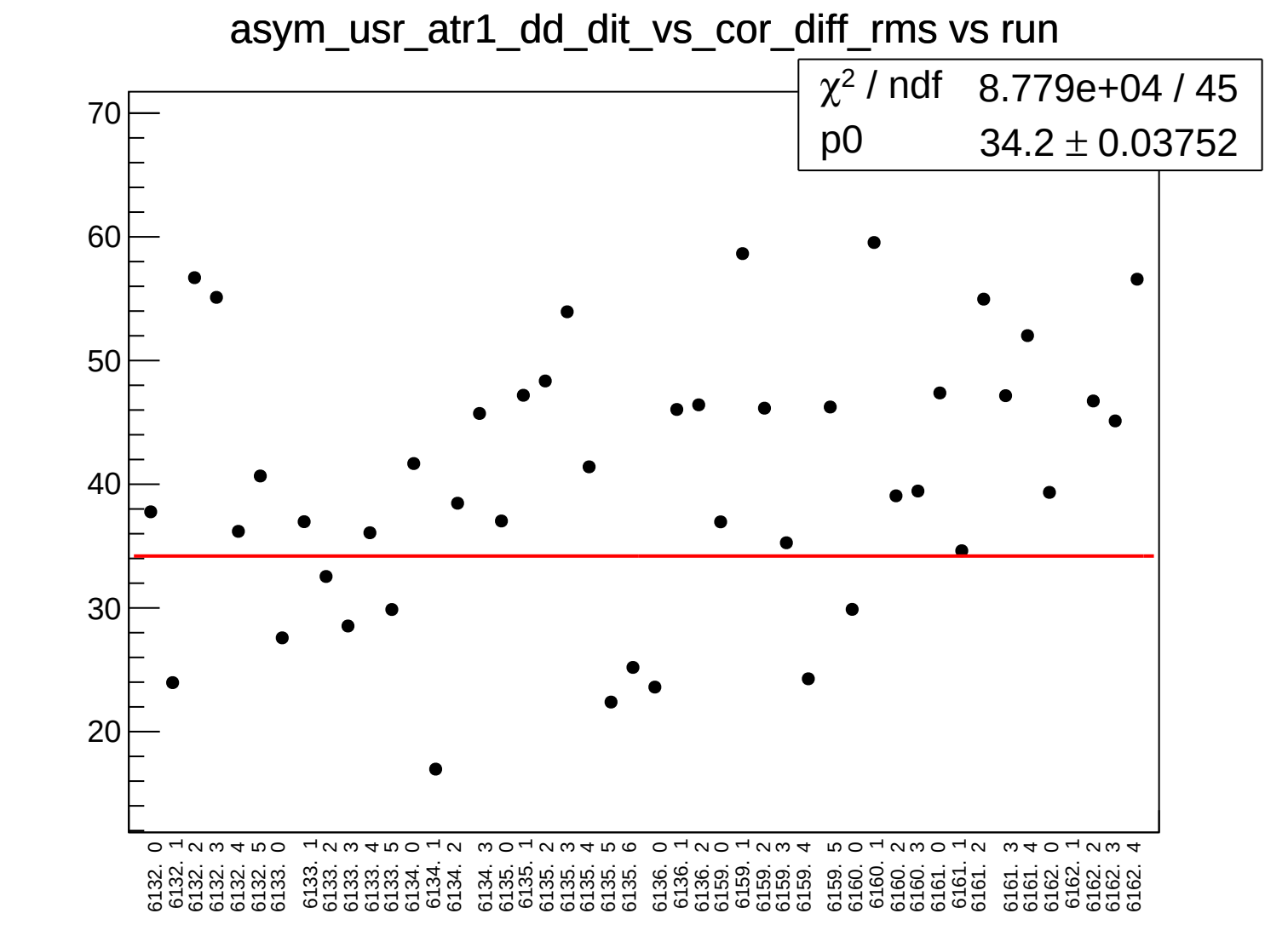
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 64.66 / 45
p0 −0.005993 ± 0.05307
pull
Entries 46
Mean 58.19
Std Dev 0
pull1D
Entries 46
Mean −0.1064
Std Dev 1.181


asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8.779e+04 / 45
p0 34.2 ± 0.03752
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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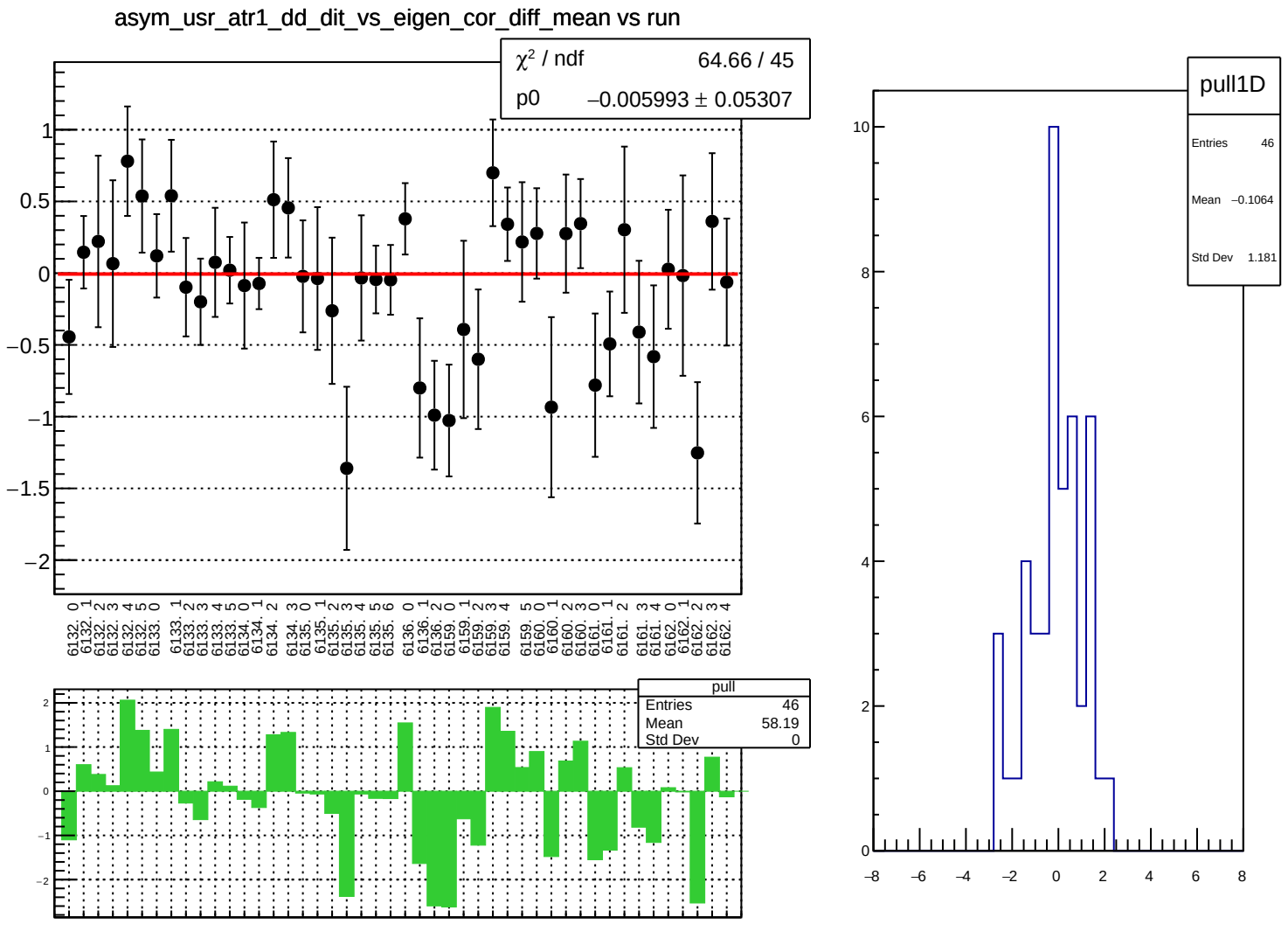
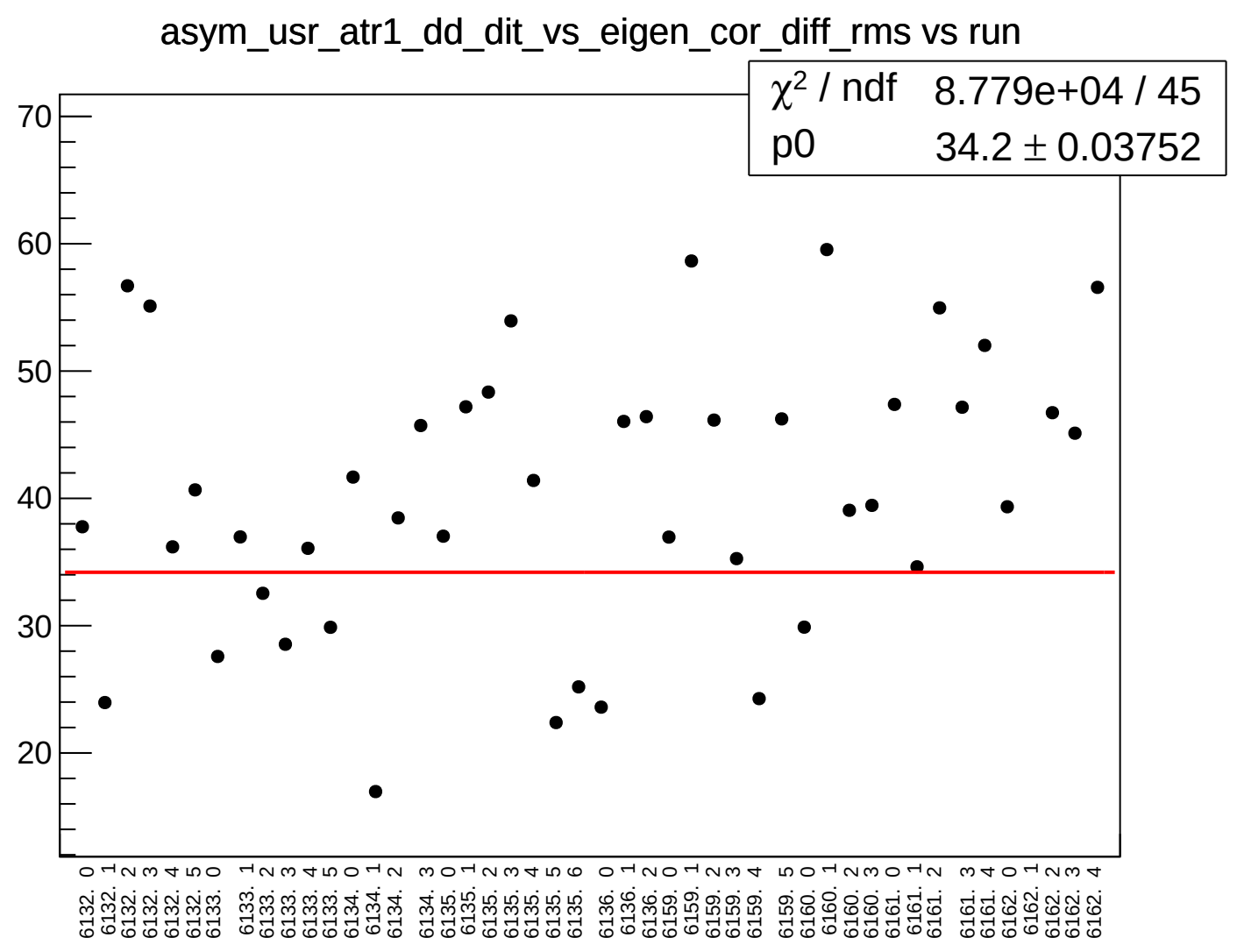
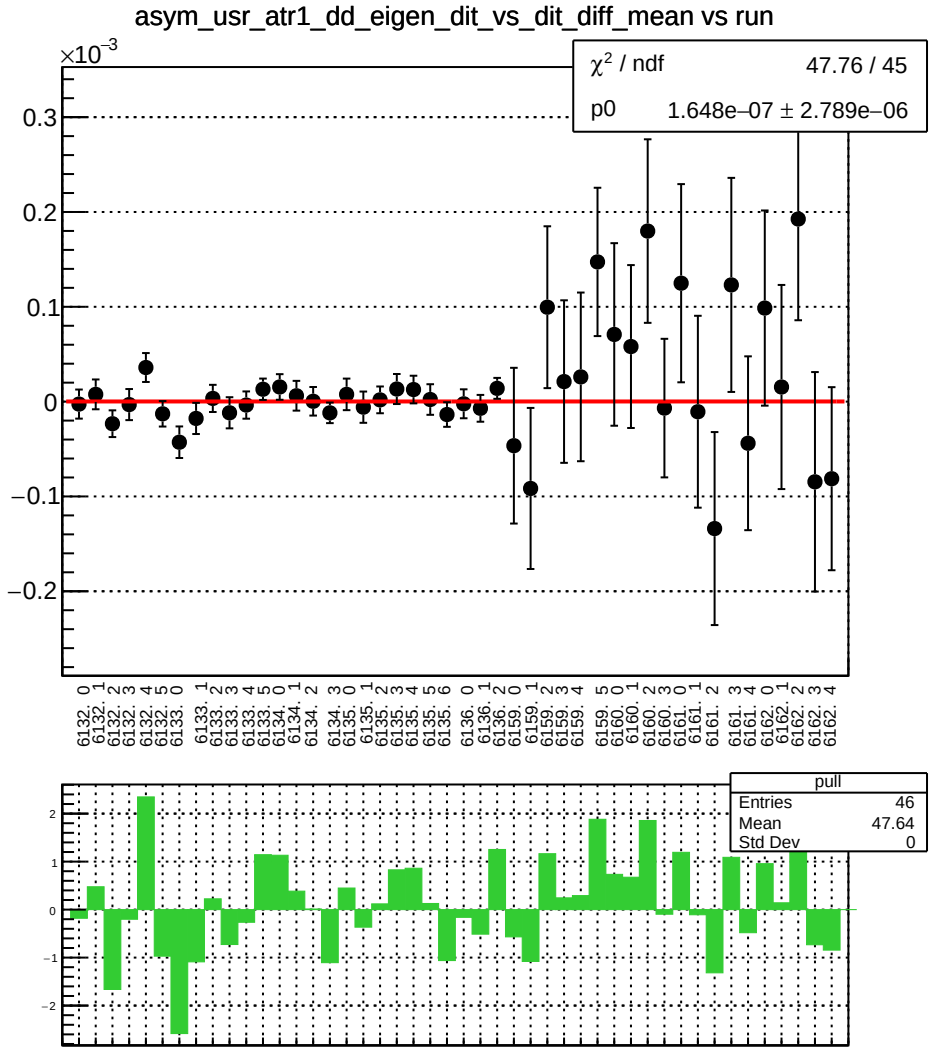
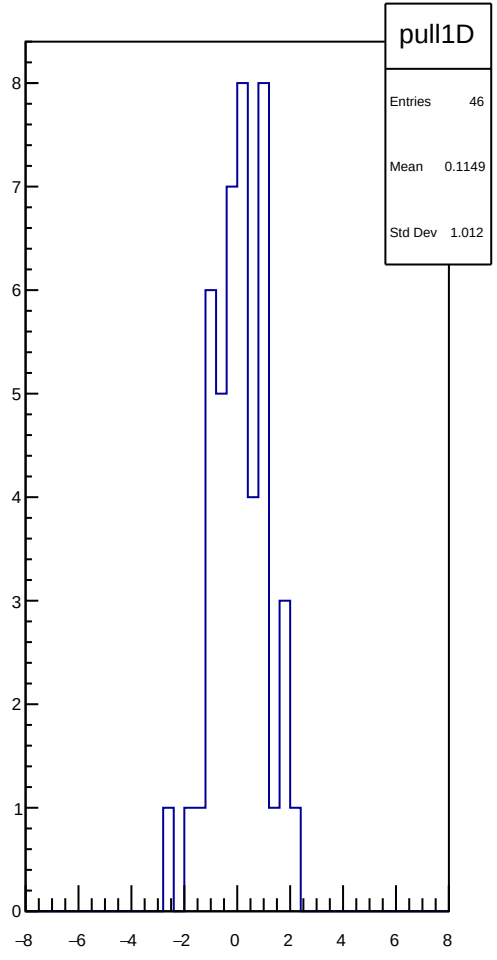
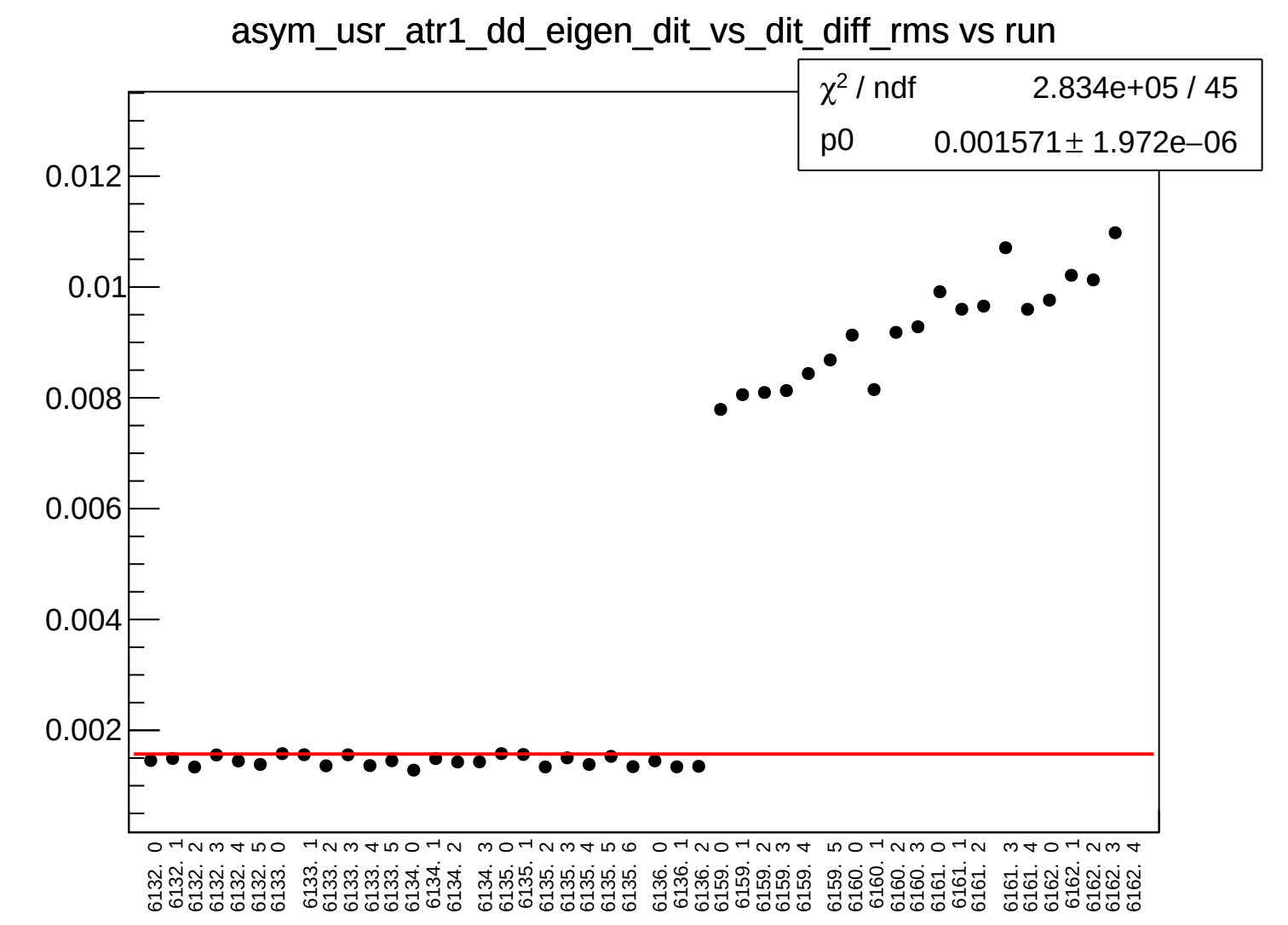
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

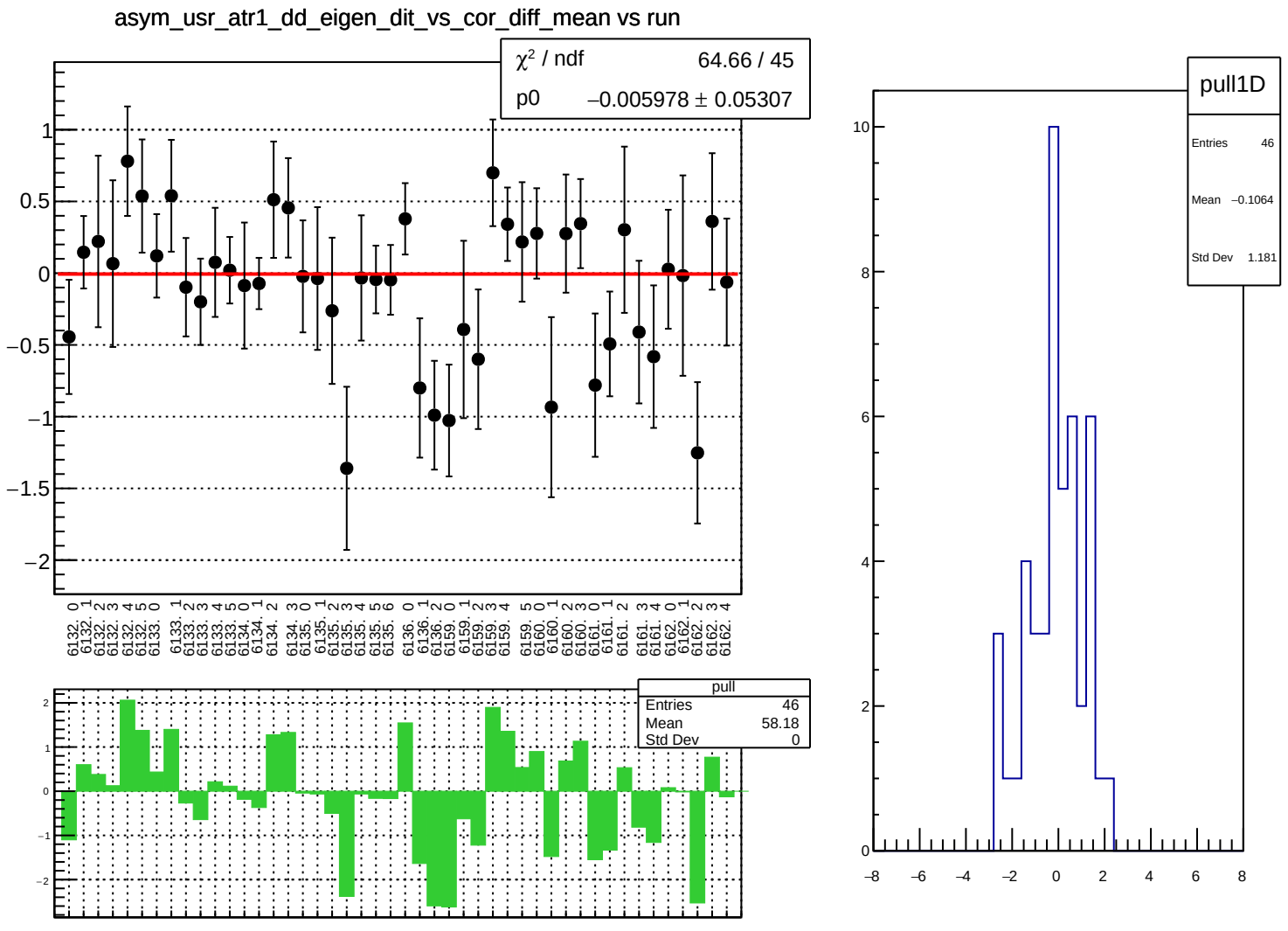

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.66 / 45
p0 −0.005993 ± 0.05307
pull
Entries 46
Mean 58.19
Std Dev 0
pull1D
Entries 46
Mean −0.1064
Std Dev 1.181

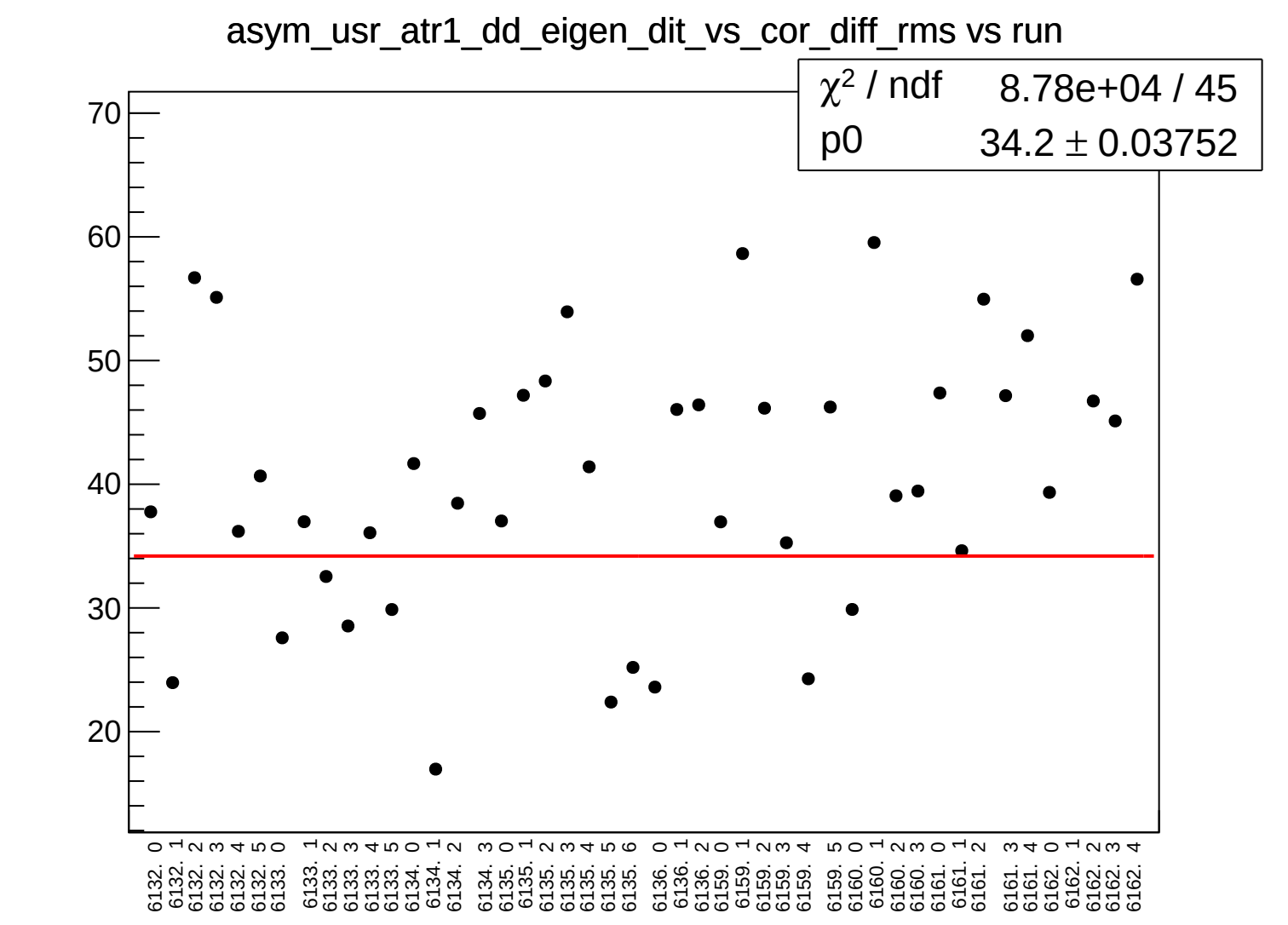

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.779e+04 / 45
p0 34.2 ± 0.03752
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

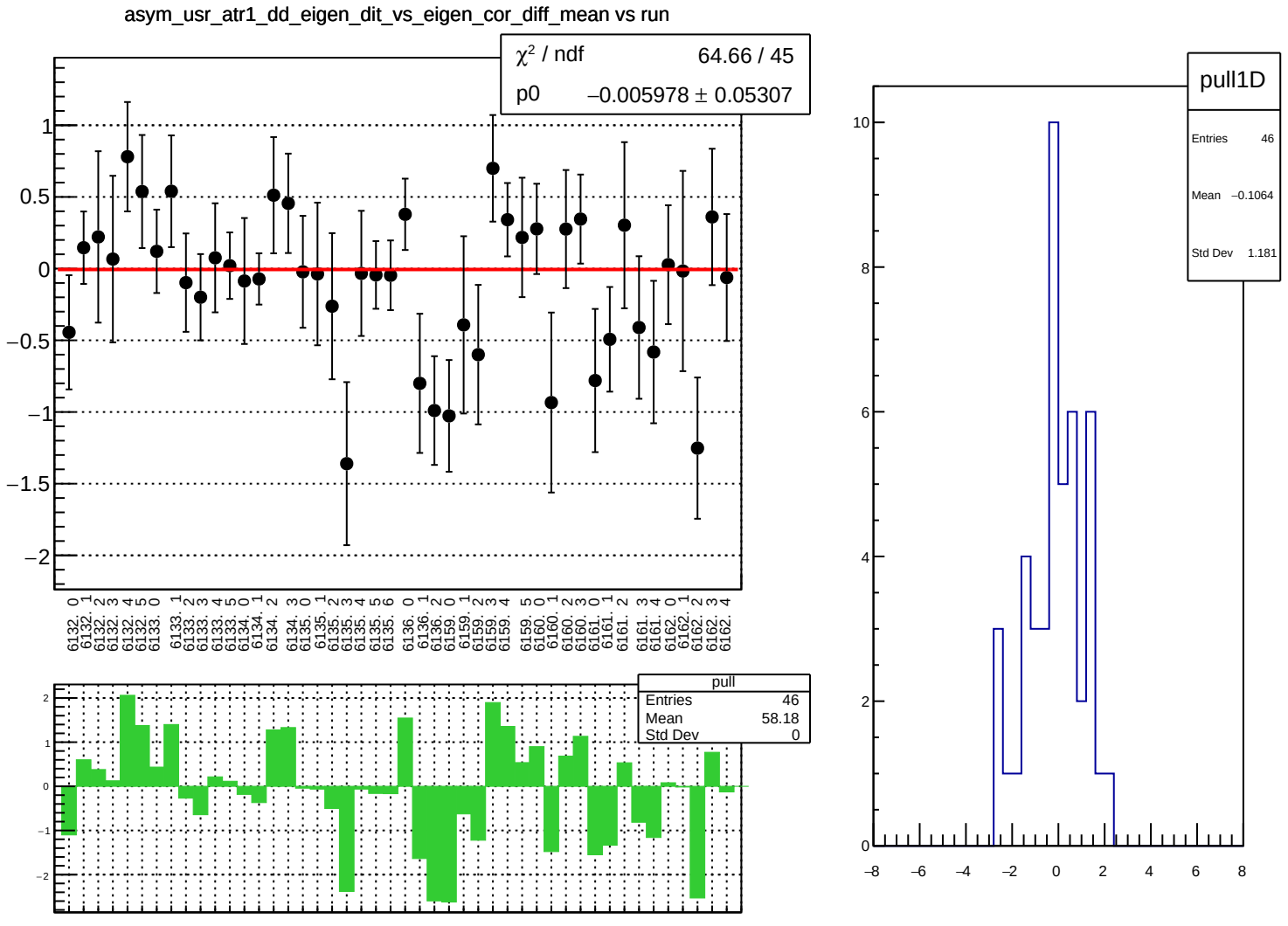

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 47.76 / 45
p0 1.648e−07 ± 2.789e−06
pull
Entries 46
Mean 47.64
Std Dev 0

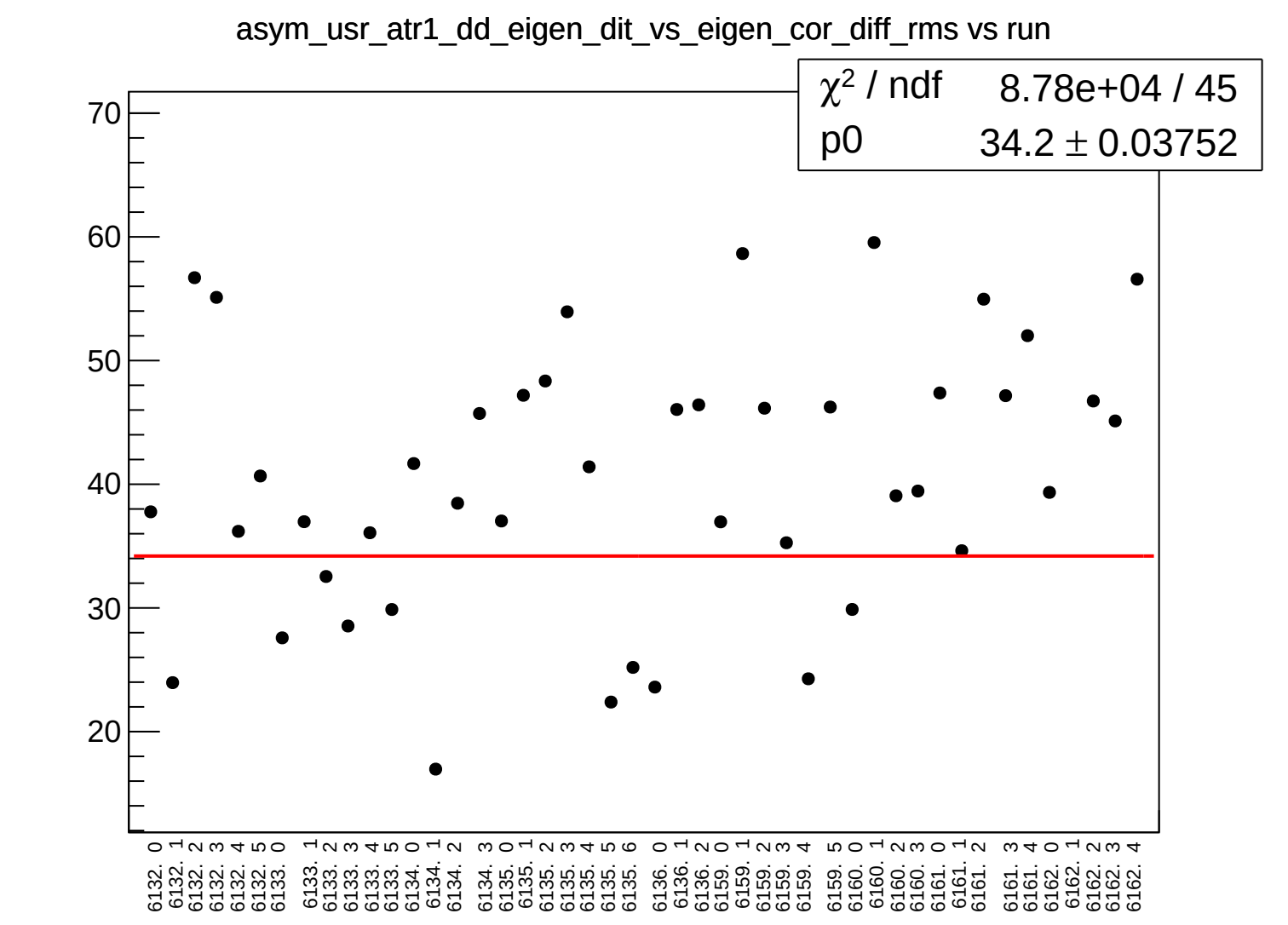

pull1D
Entries 46
Mean 0.1149
Std Dev 1.012

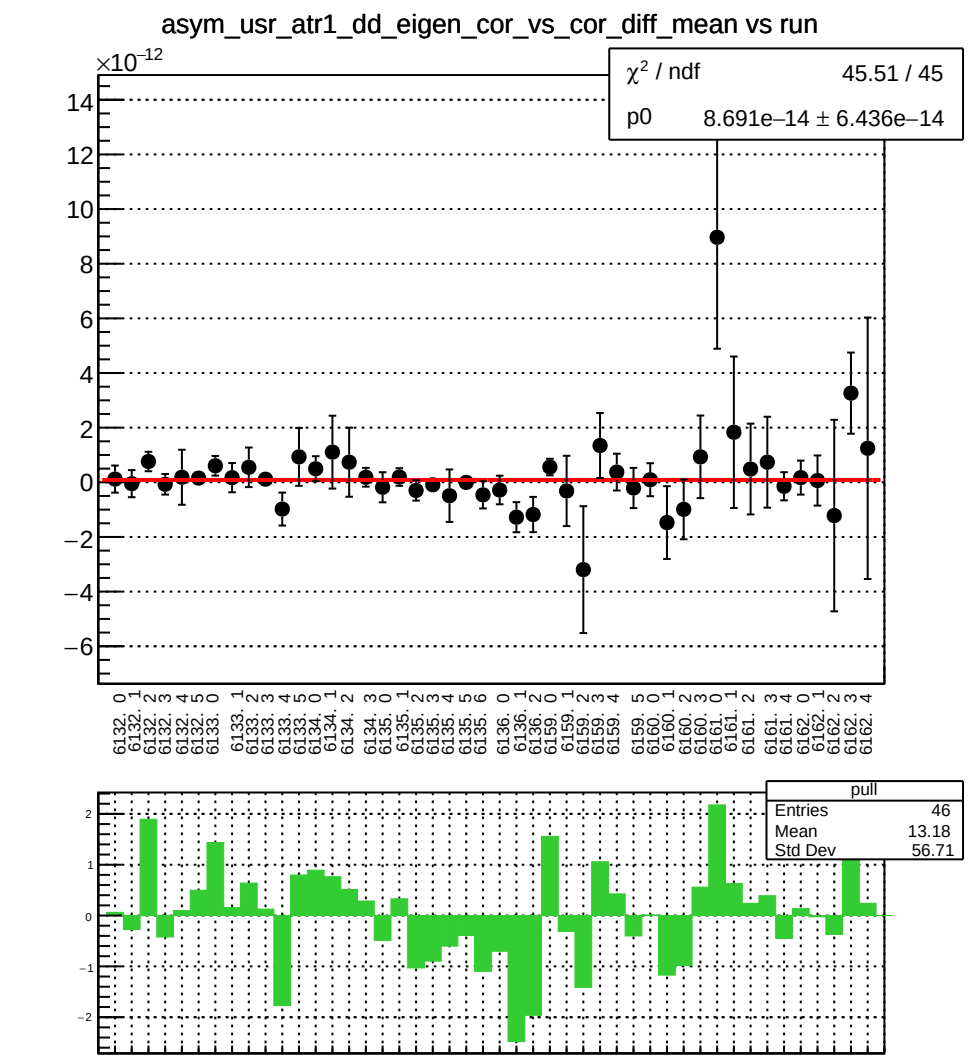

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.834e+05 / 45
p0 0.001571 ± 1.972e−06
0.012
0.01
0.008
0.006
0.004
0.002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

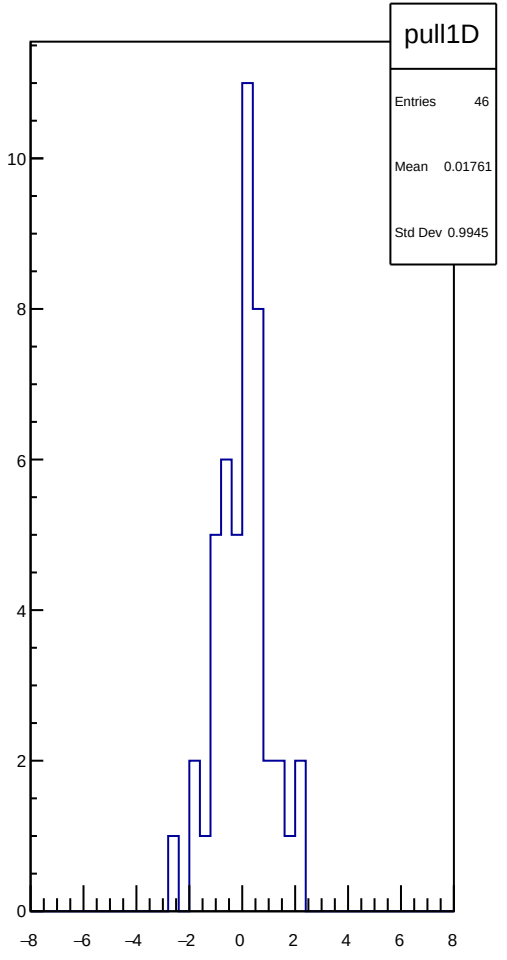

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.66 / 45
p0 −0.005978 ± 0.05307
pull
Entries 46
Mean 58.18
Std Dev 0
pull1D
Entries 46
Mean −0.1064
Std Dev 1.181

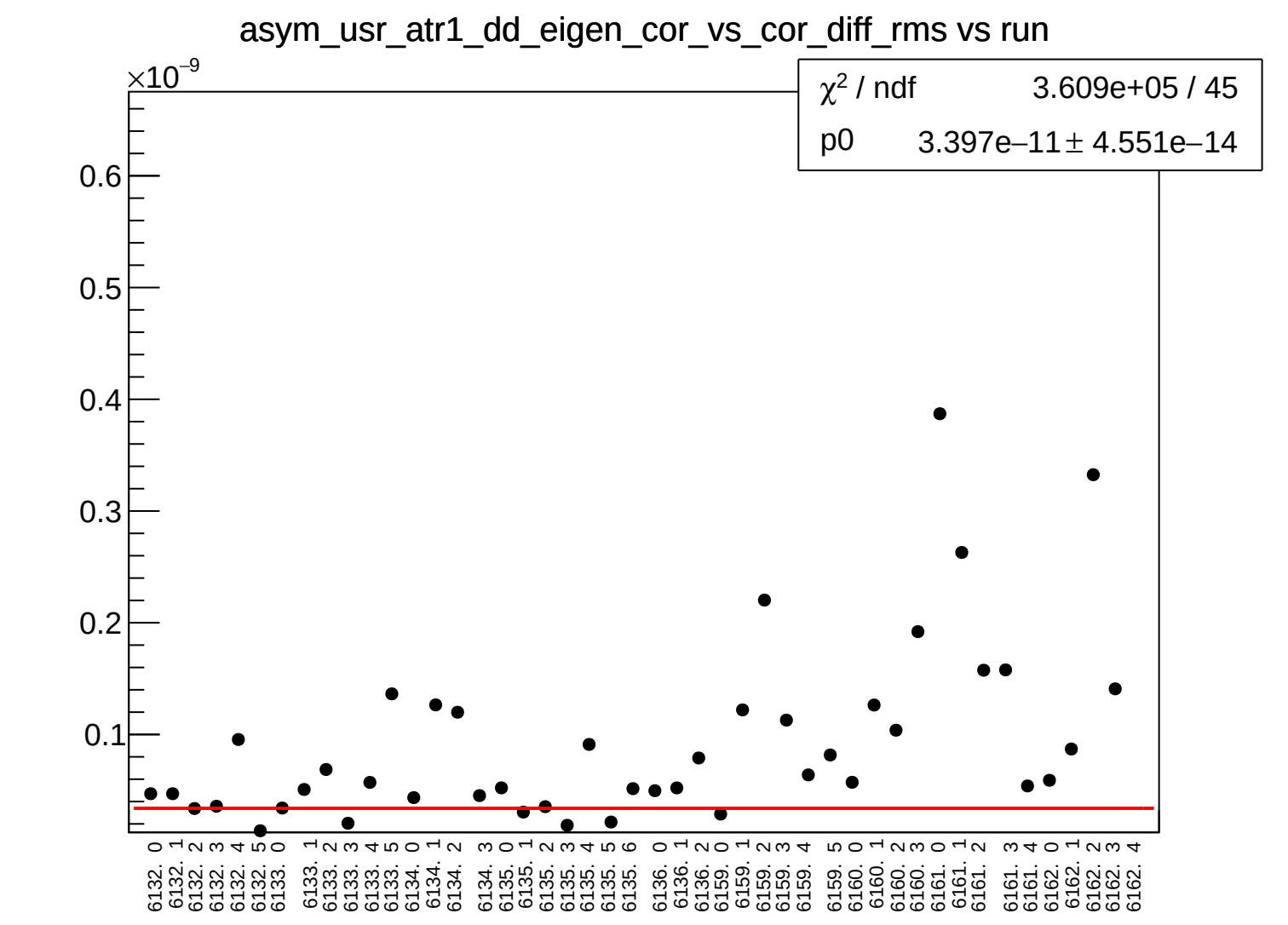

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.78e+04 / 45
p0 34.2 ± 0.03752
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

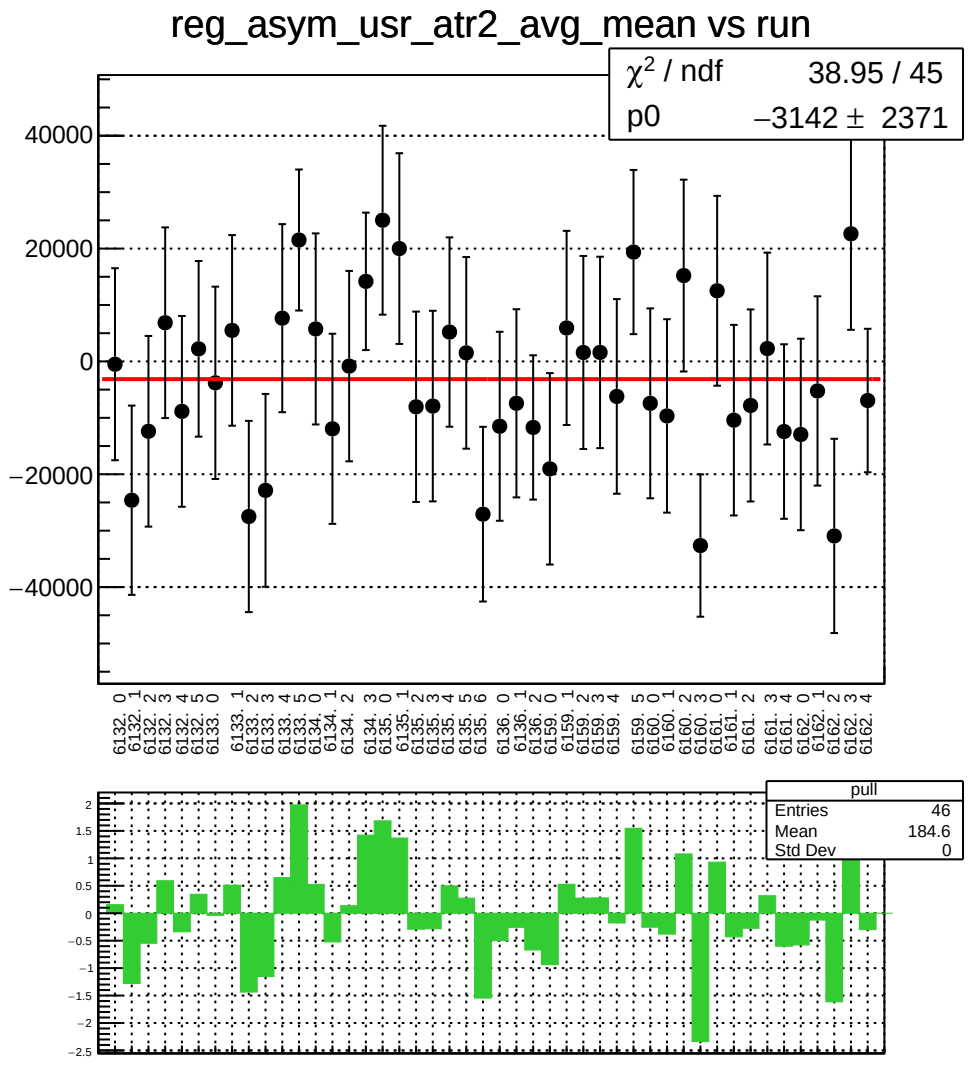

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.66 / 45
p0 −0.005978 ± 0.05307
pull
Entries 46
Mean 58.18
Std Dev 0
pull1D
Entries 46
Mean −0.1064
Std Dev 1.181

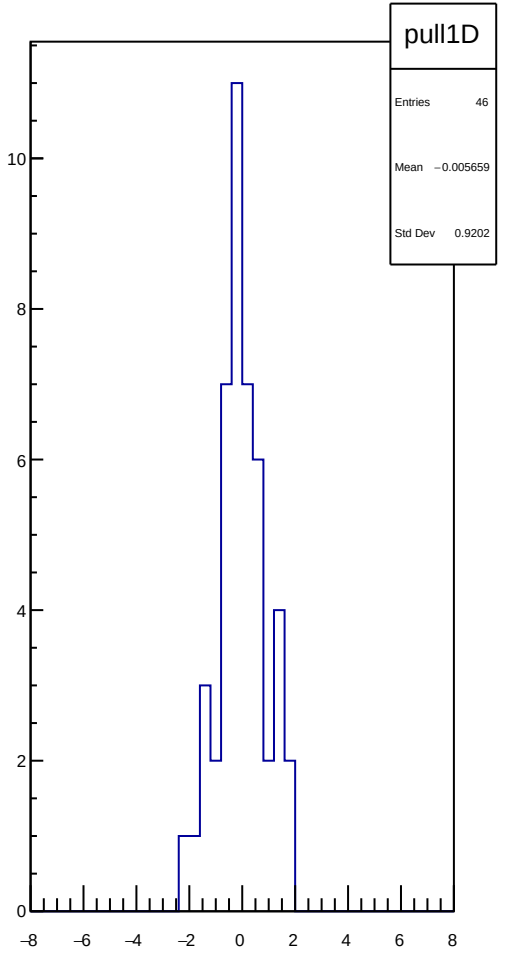

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.78e+04 / 45
p0 34.2 ± 0.03752
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

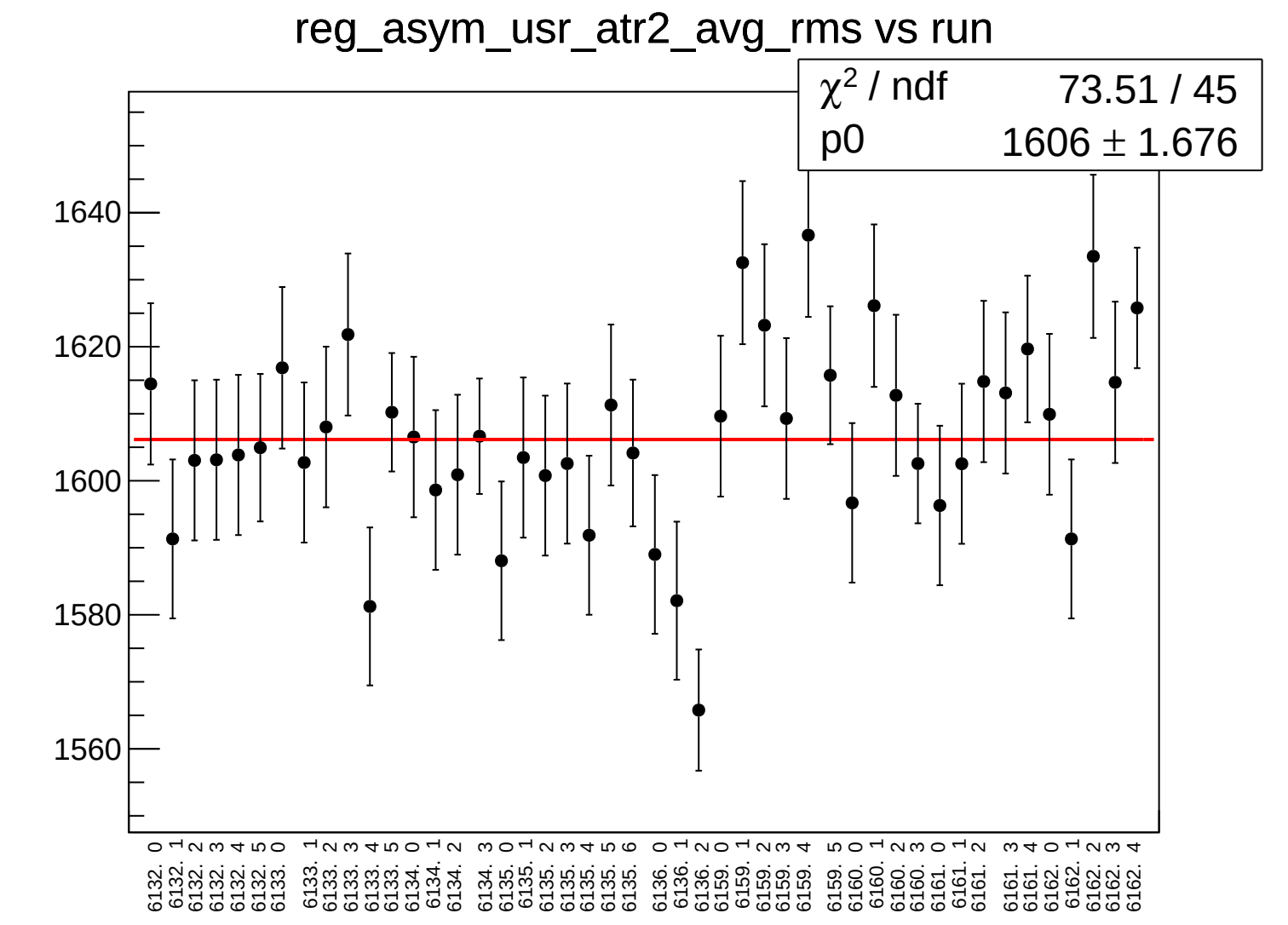

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 45.51 / 45
p0 8.691e−14 ± 6.436e−14
pull
Entries 46
Mean 13.18
Std Dev 56.71

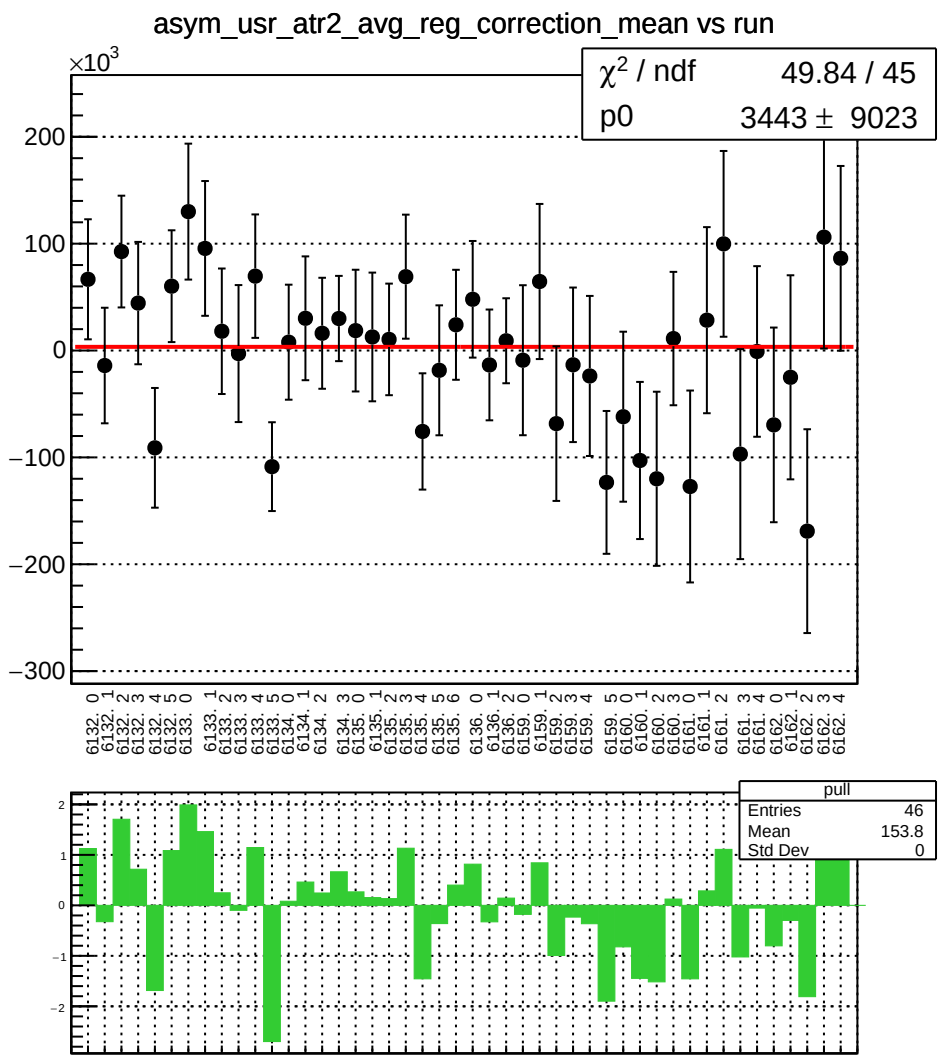

pull1D
Entries 46
Mean 0.01761
Std Dev 0.9945


asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.609e+05 / 45
p0 3.397e−11 ± 4.551e−14
0.6
0.5
0.4
0.3
0.2
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 38.95 / 45
p0 −3142 ± 2371
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 184.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.005659
Std Dev 0.9202
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 73.51 / 45
p0 1606 ± 1.676
1640
1620
1600
1580
1560
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 49.84 / 45
p0 3443 ± 9023
200
100
0
−100
−200
−300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
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6136. 2
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6159. 2
6159. 3
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6159. 5
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6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
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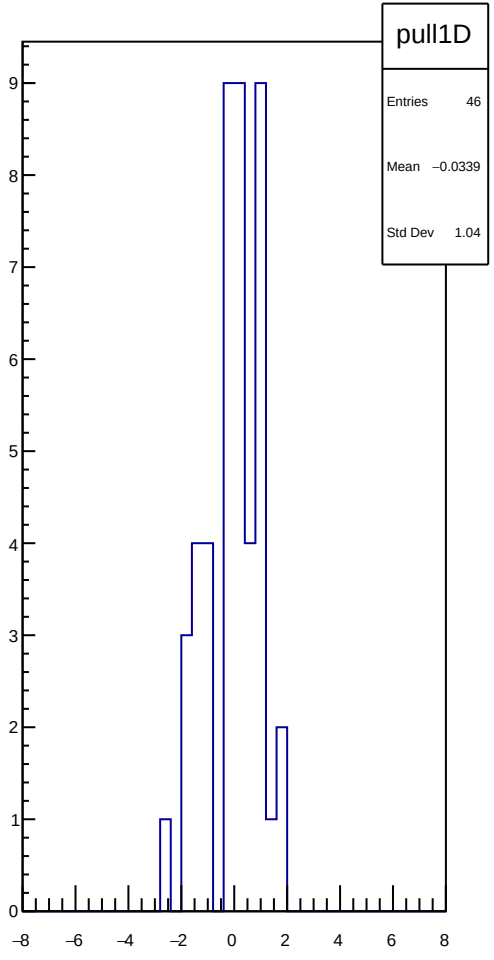
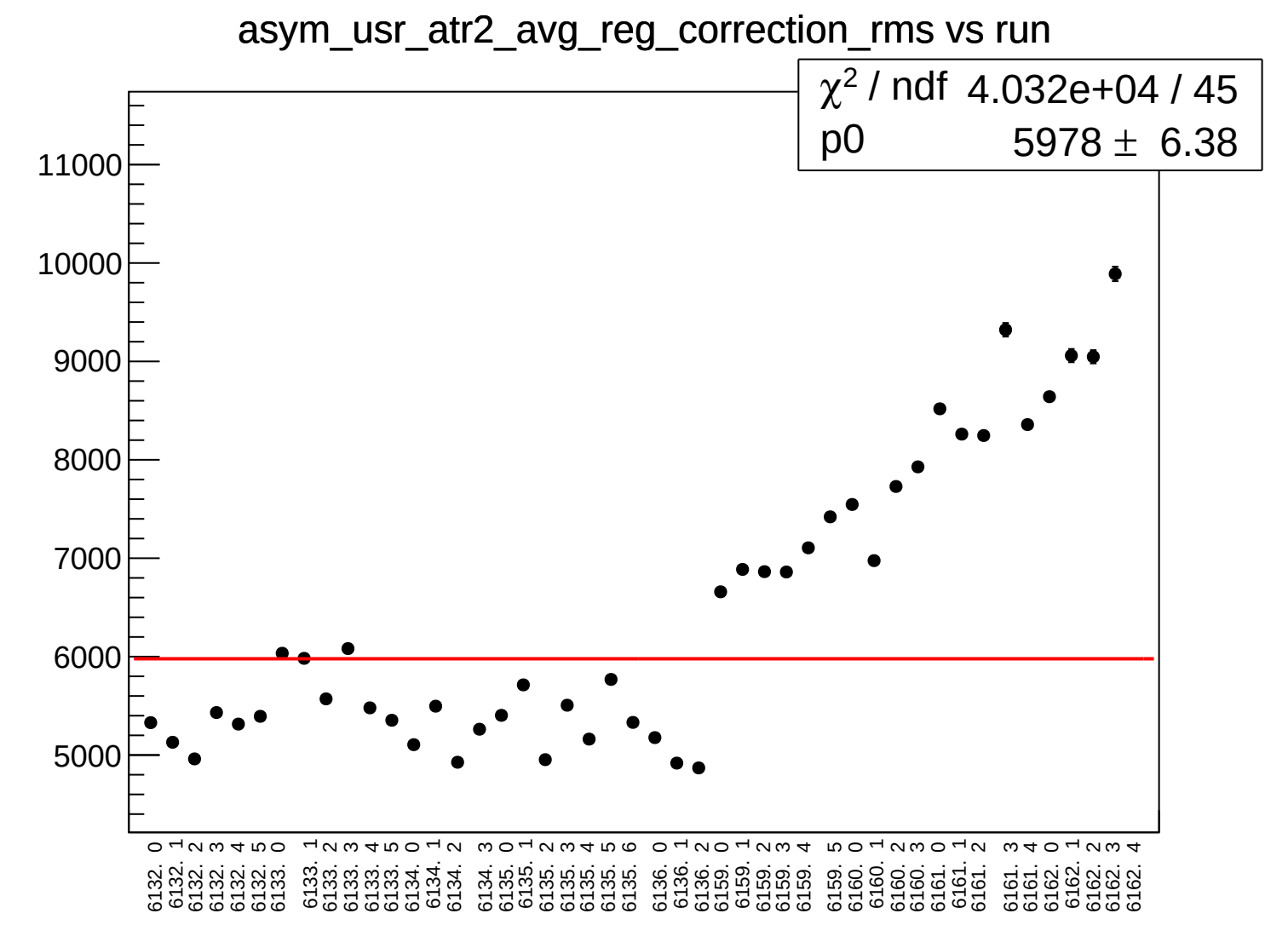
6162. 3
6162. 4
pull
Entries 46
Mean 153.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.0339
Std Dev 1.04
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 4.032e+04 / 45
p0 5978 ± 6.38
11000
10000
9000
8000
7000
6000
5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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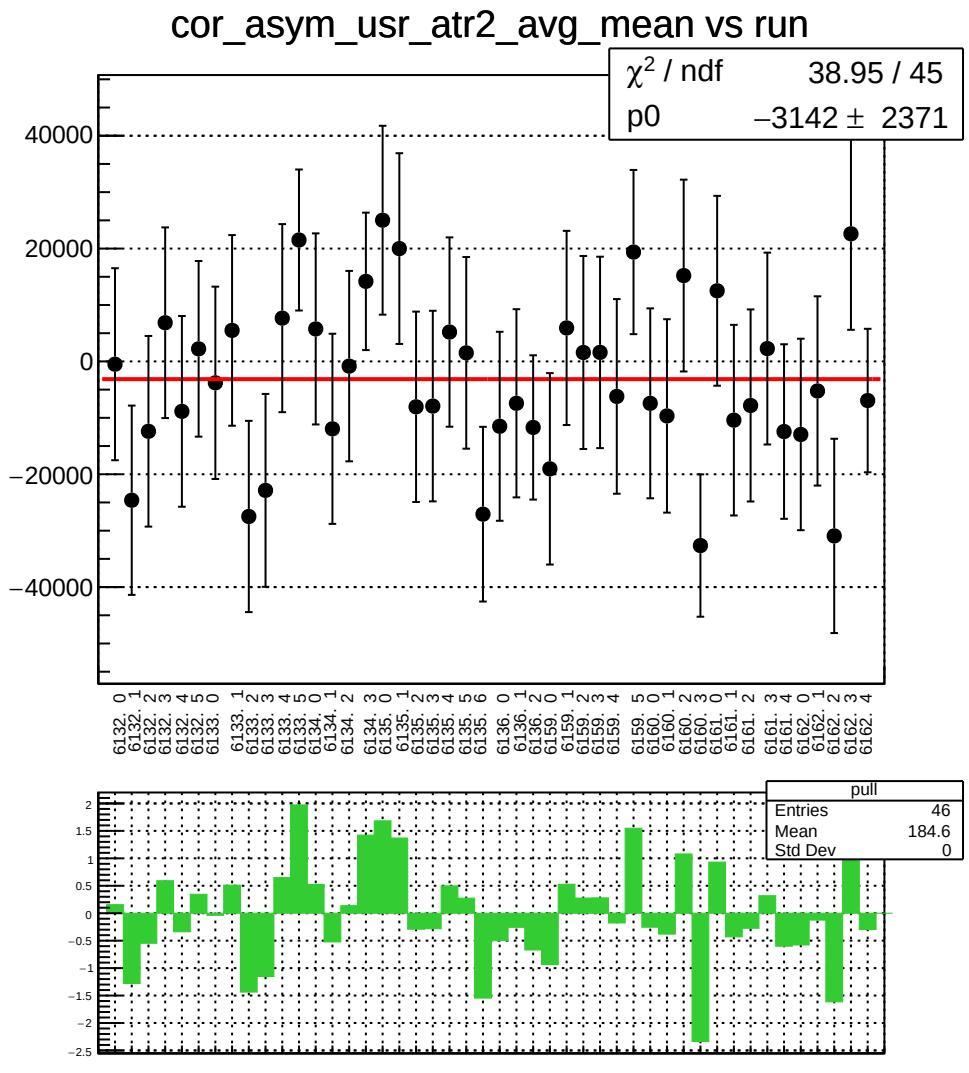
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 38.95 / 45
p0 −3142 ± 2371
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 0
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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
6159. 5
6160. 0
6160. 1
6160. 2
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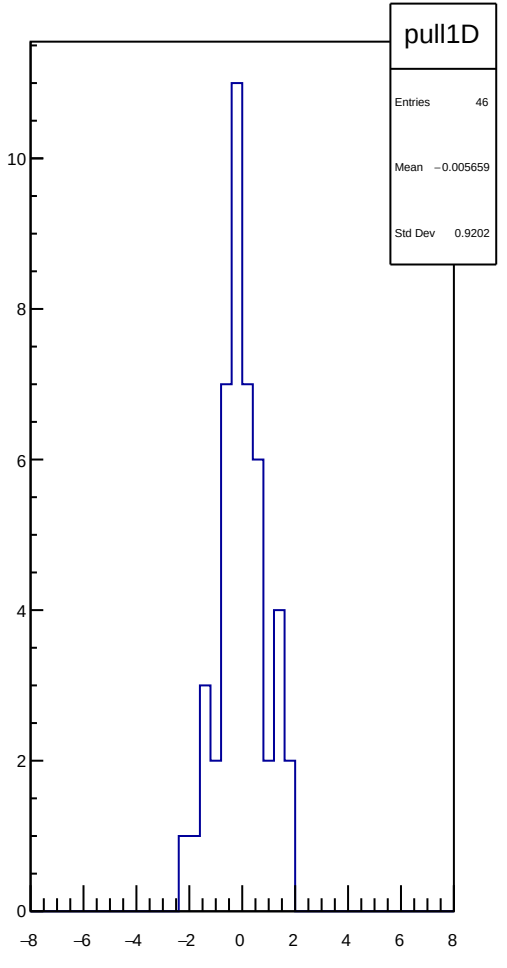
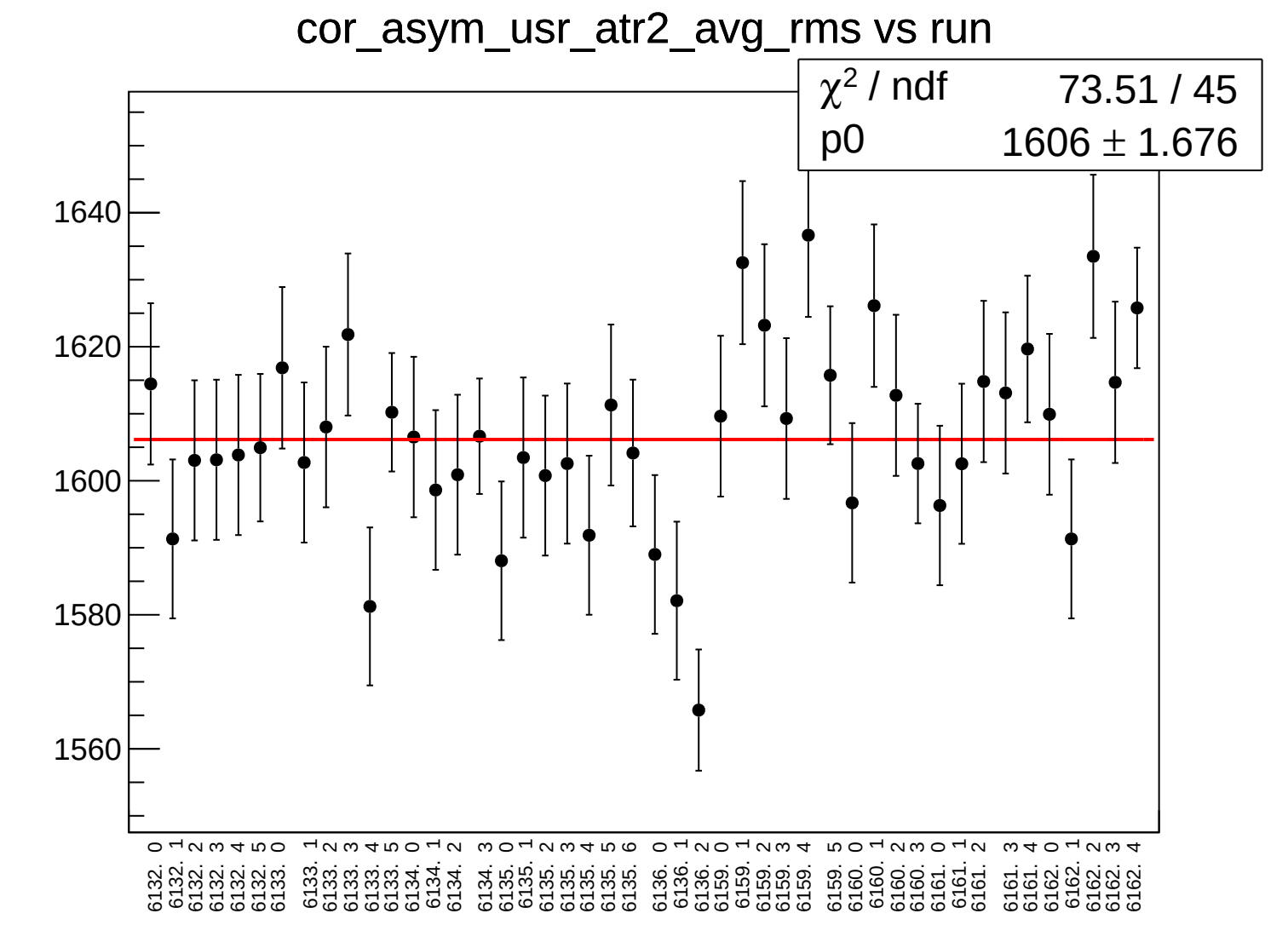
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 184.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.005659
Std Dev 0.9202
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 73.51 / 45
p0 1606 ± 1.676
1640
1620
1600
1580
1560
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6134. 1
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6134. 3
6135. 0
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
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6136. 2
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
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6160. 2
6160. 3
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6161. 4
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6162. 3
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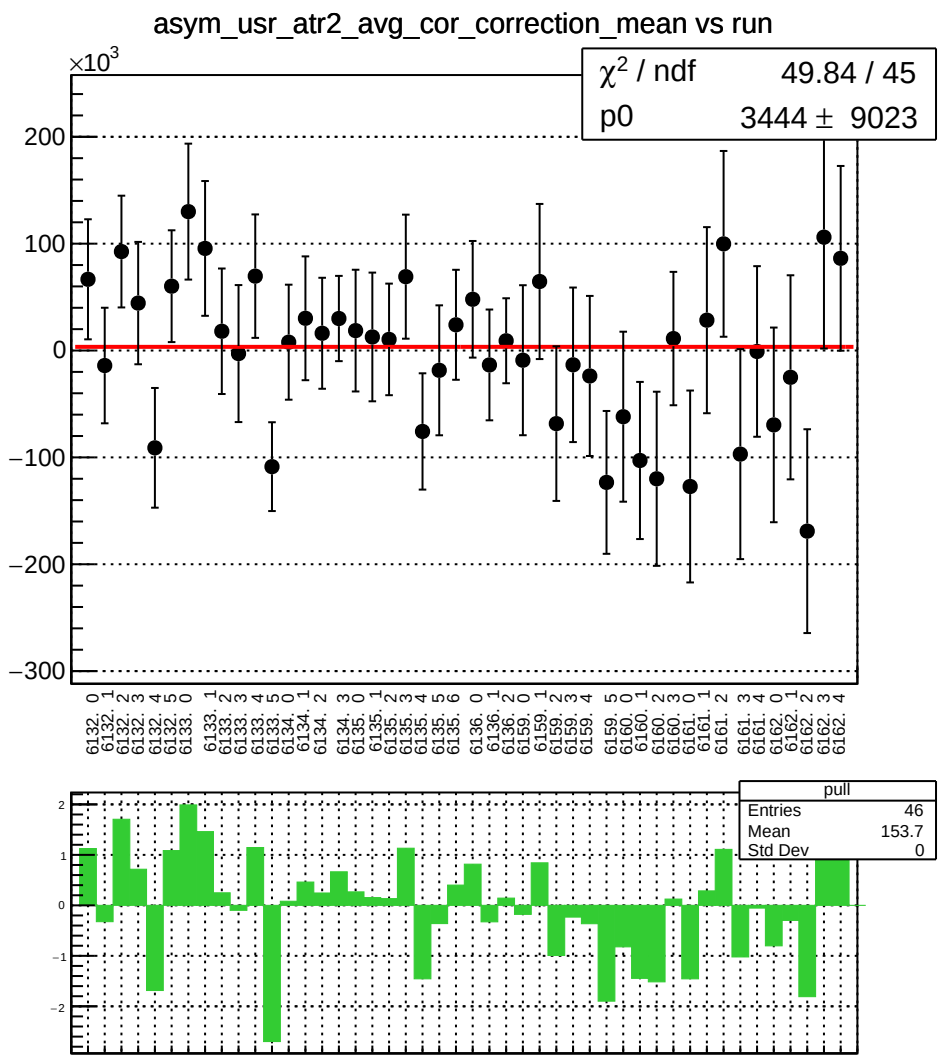
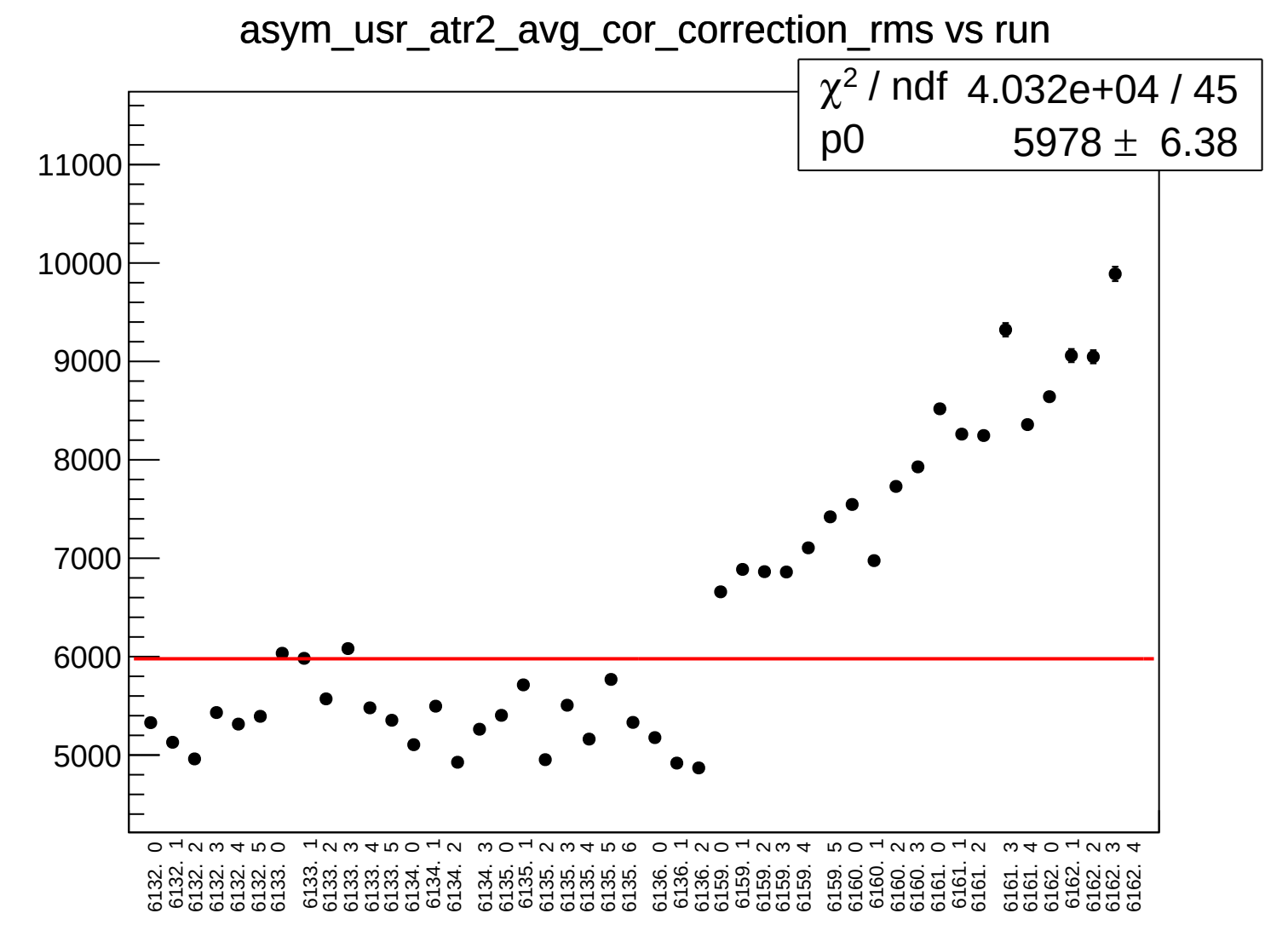

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 49.84 / 45
p0 3444 ± 9023
200
100
0
−100
−200
−300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 153.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.0339
Std Dev 1.04
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 4.032e+04 / 45
p0 5978 ± 6.38
11000
10000
9000
8000
7000
6000
5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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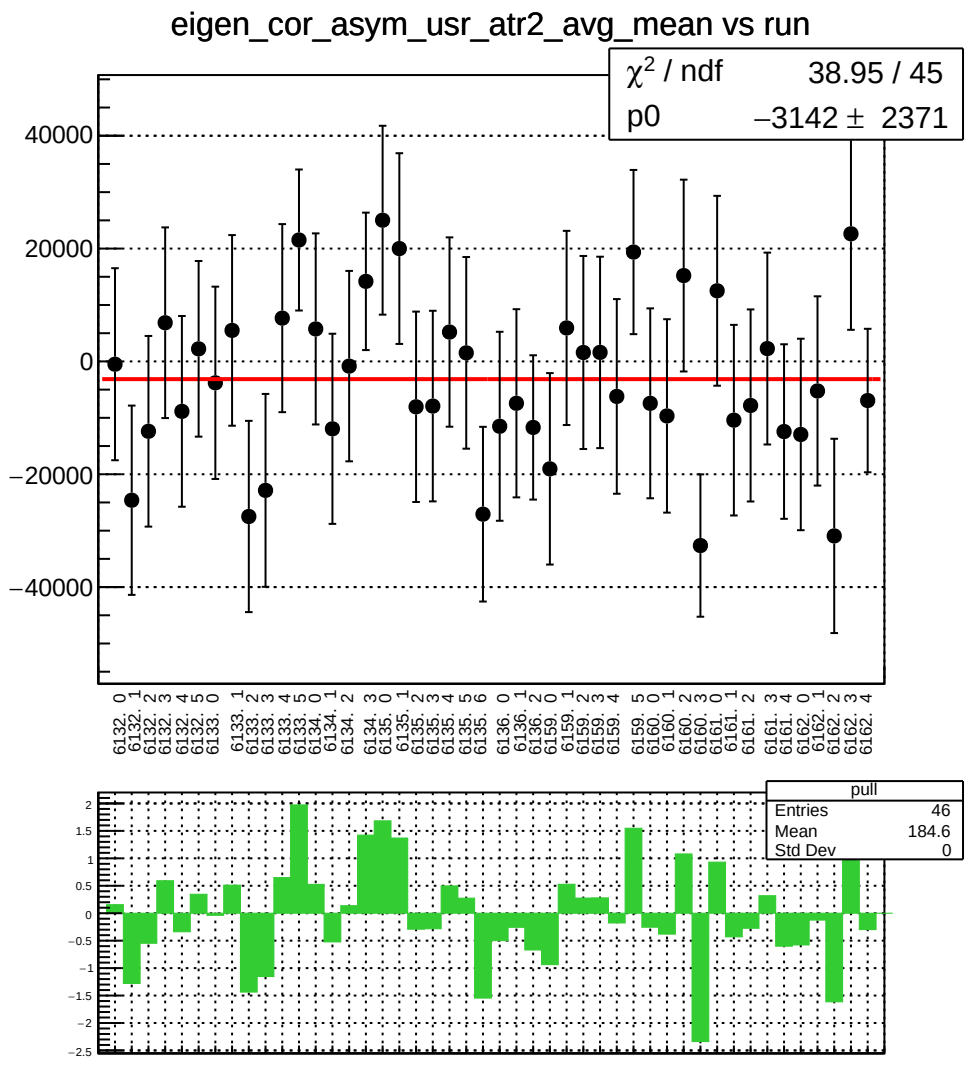
6162. 4


eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 38.95 / 45
p0 −3142 ± 2371
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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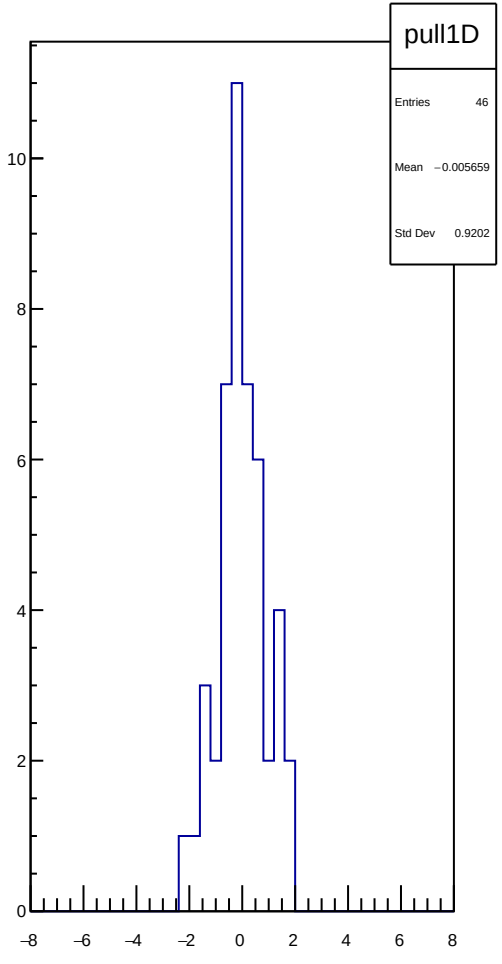
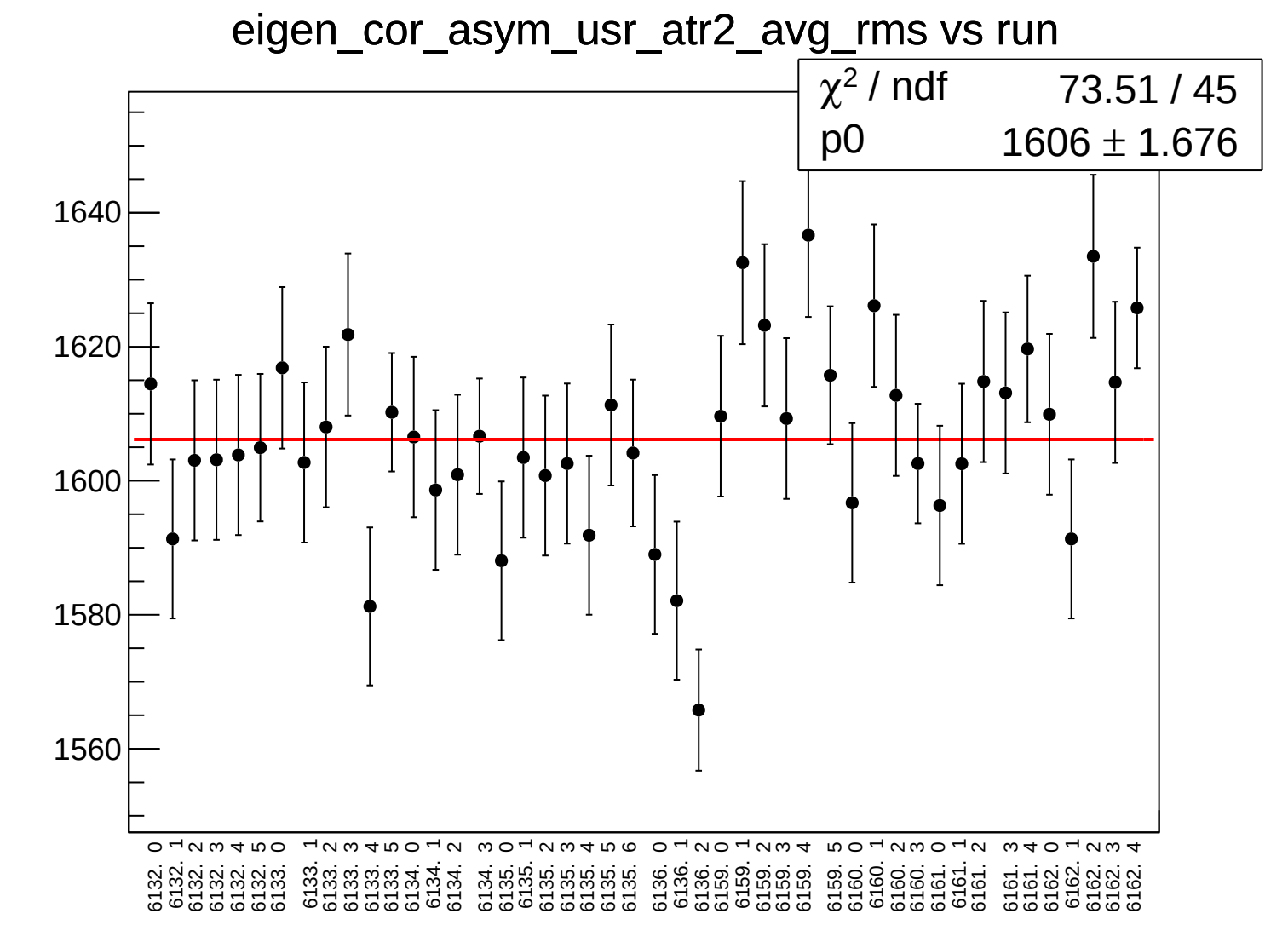
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 184.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.005659
Std Dev 0.9202
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 73.51 / 45
p0 1606 ± 1.676
1640
1620
1600
1580
1560
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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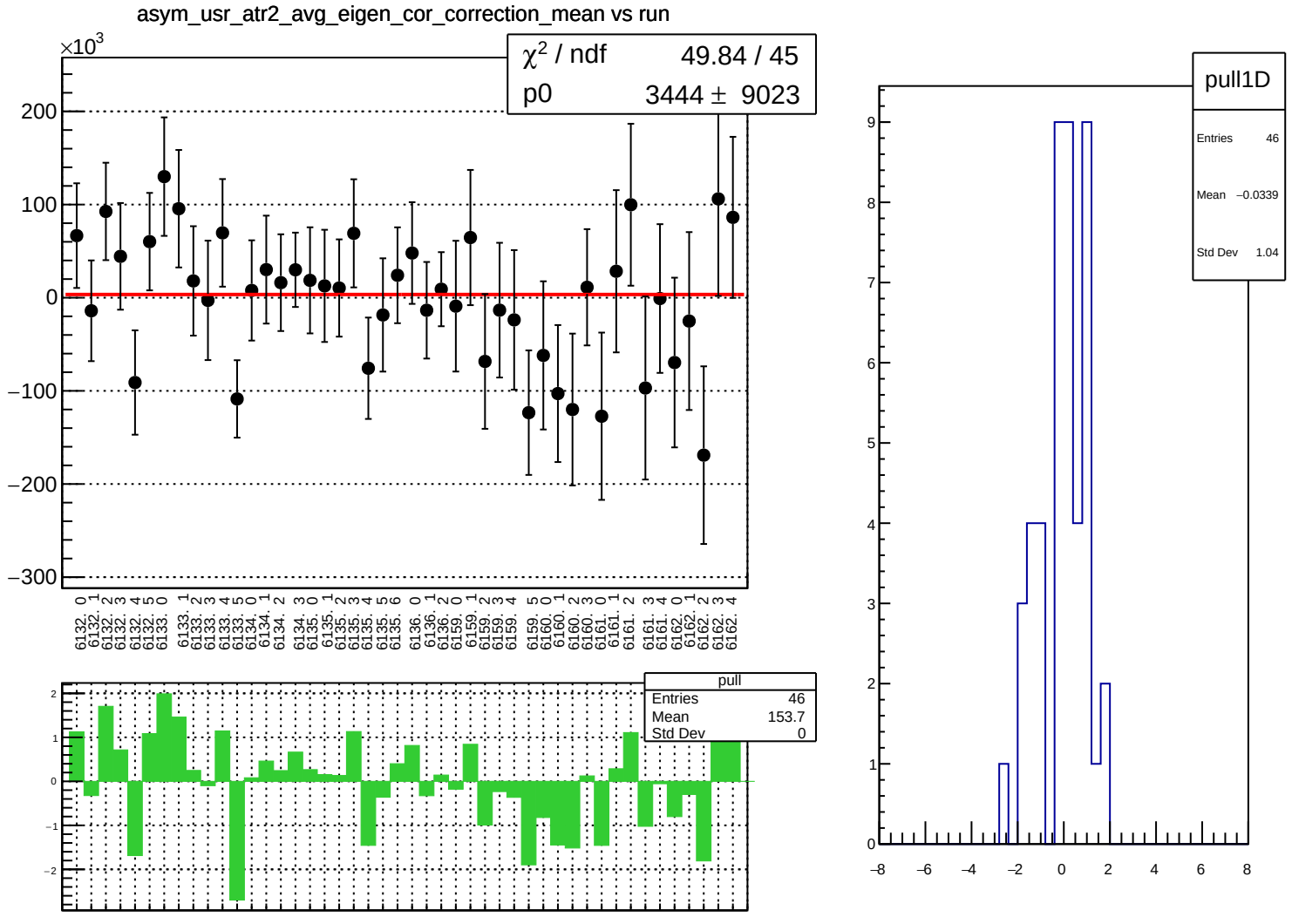
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 49.84 / 45
p0 3444 ± 9023
200
100
0
−100
−200
−300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 153.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.0339
Std Dev 1.04
9
8
7
6
5
4
3
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1
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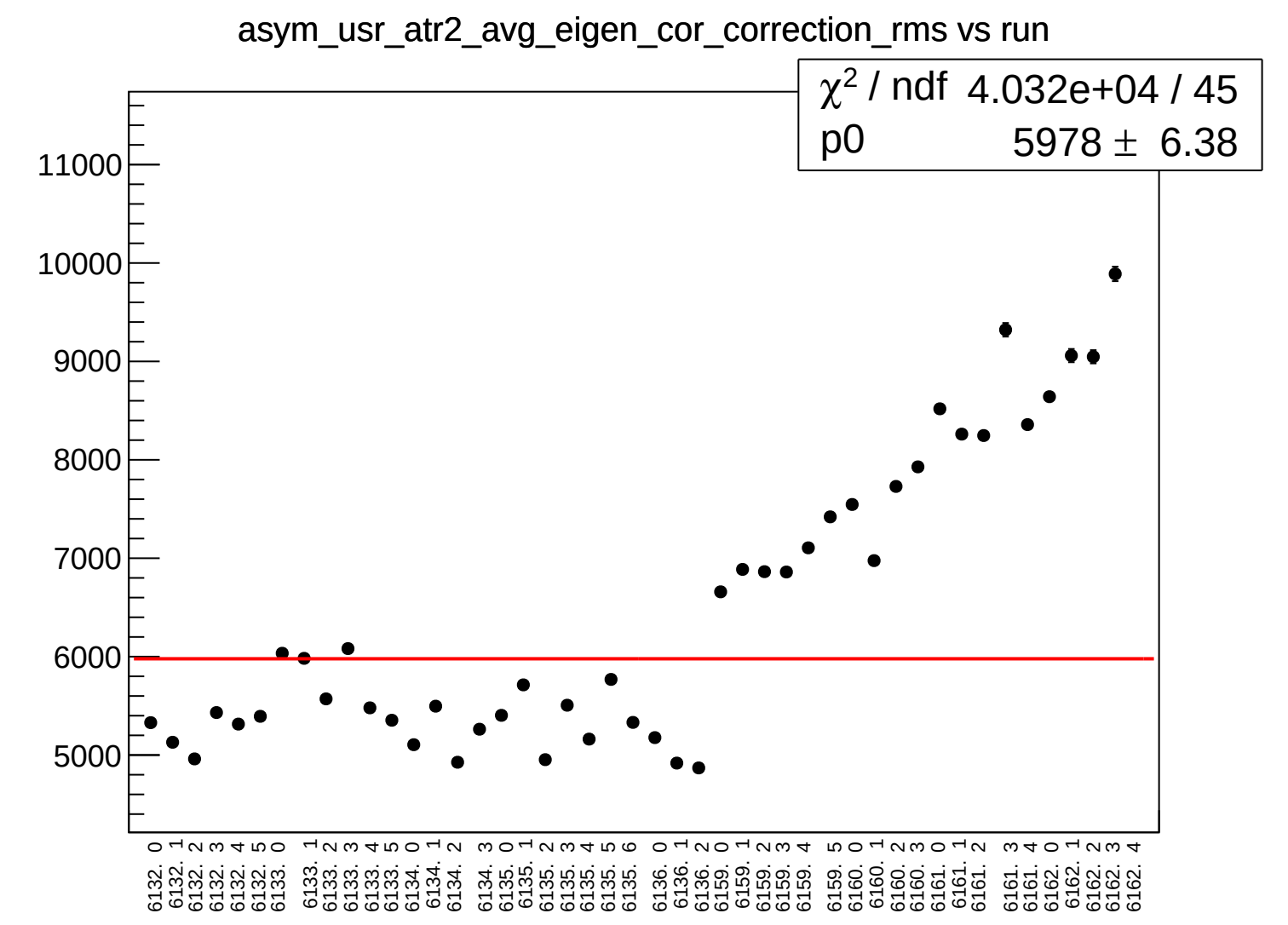
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.032e+04 / 45
p0 5978 ± 6.38
11000
10000
9000
8000
7000
6000
5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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6162. 0
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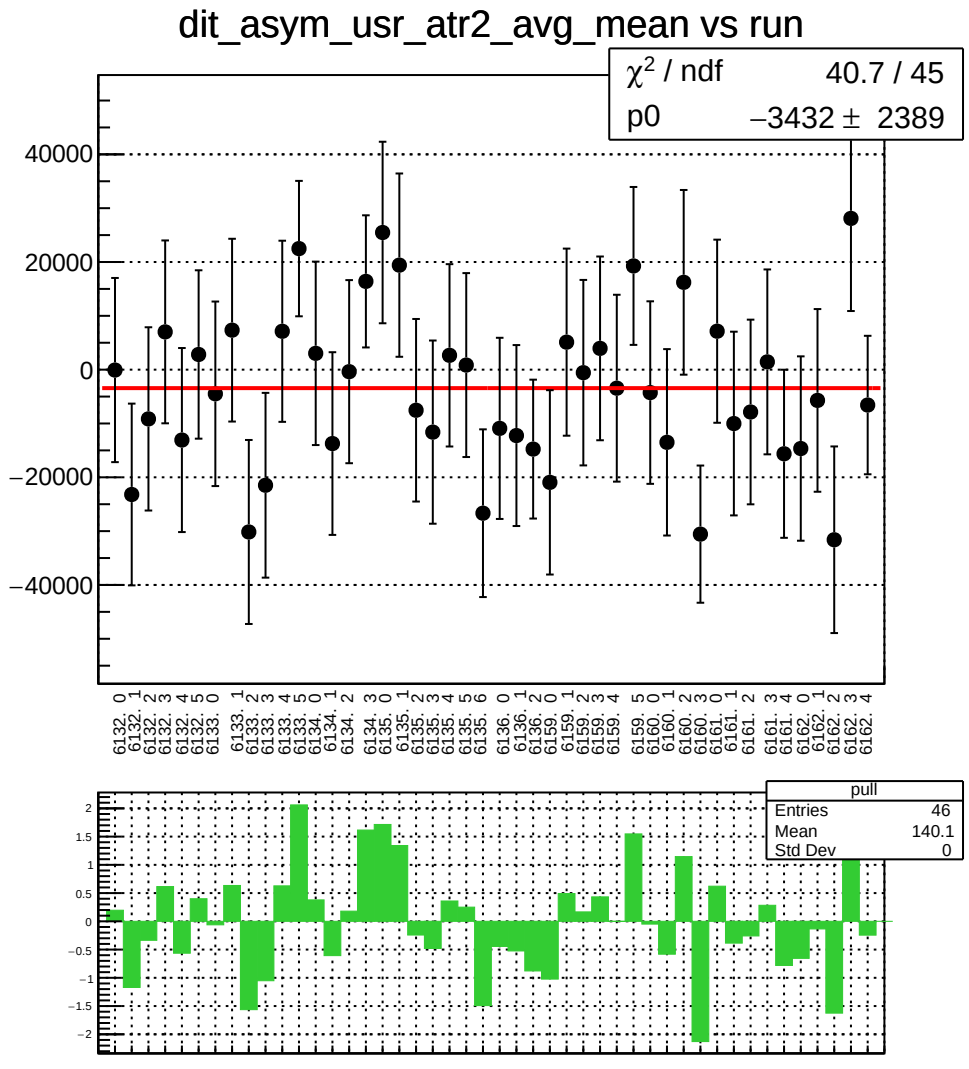
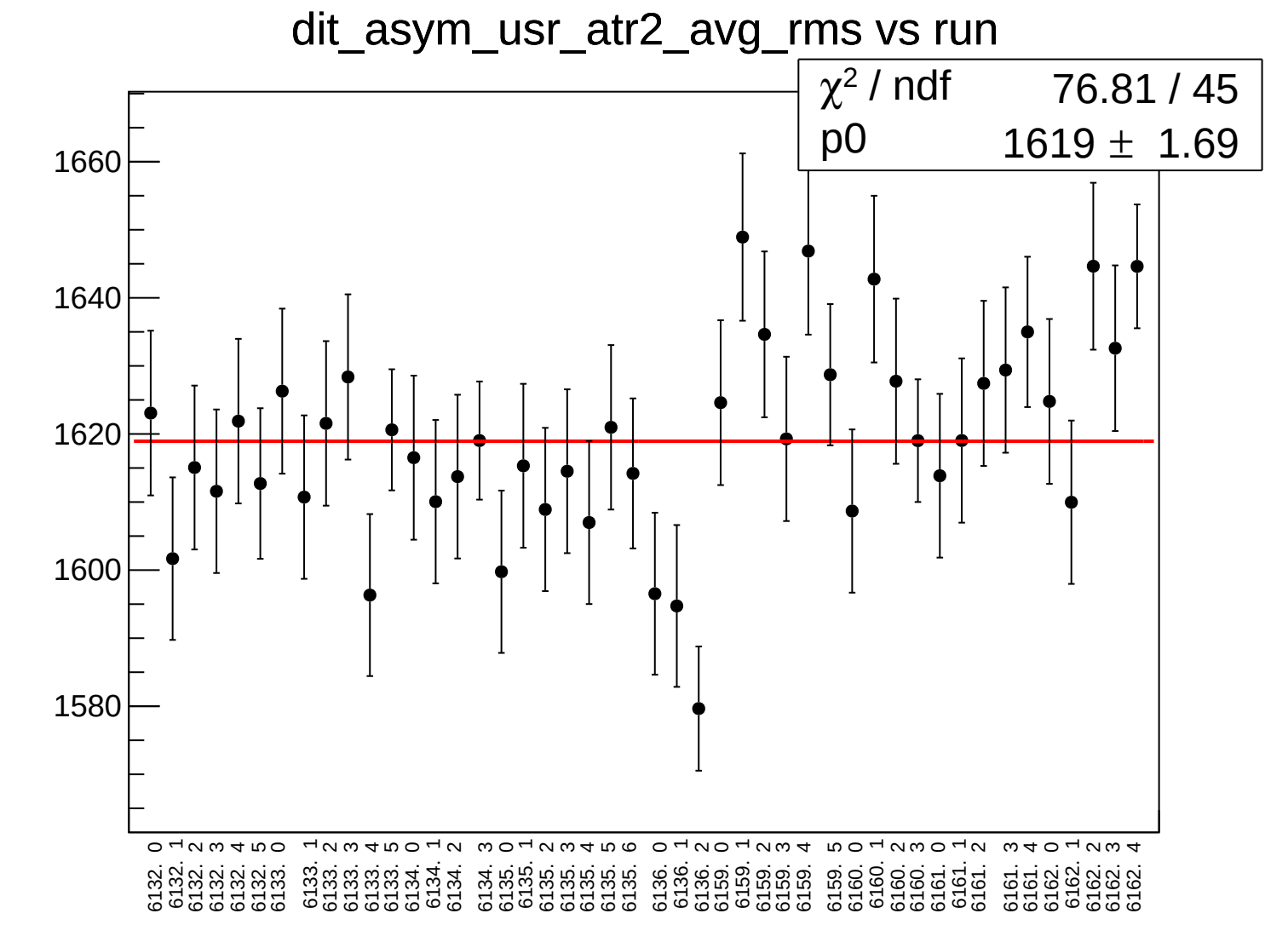
6162. 3
6162. 4


dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 40.7 / 45
p0 −3432 ± 2389
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 140.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.008284
Std Dev 0.9406
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 76.81 / 45
p0 1619 ± 1.69
1660
1640
1620
1600
1580
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6159. 2
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6159. 4
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6160. 2
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6161. 2
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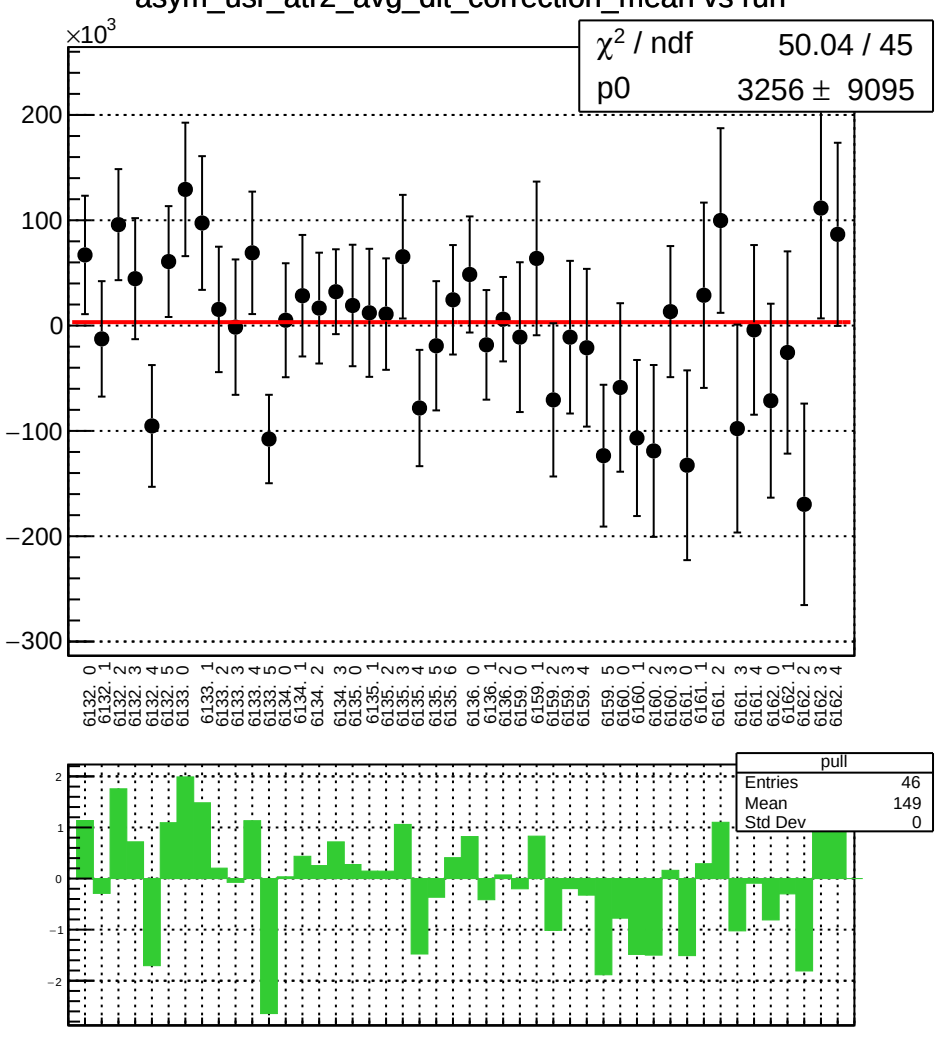
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 50.04 / 45
p0 3256 ± 9095
200
100
0
−100
−200
−300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
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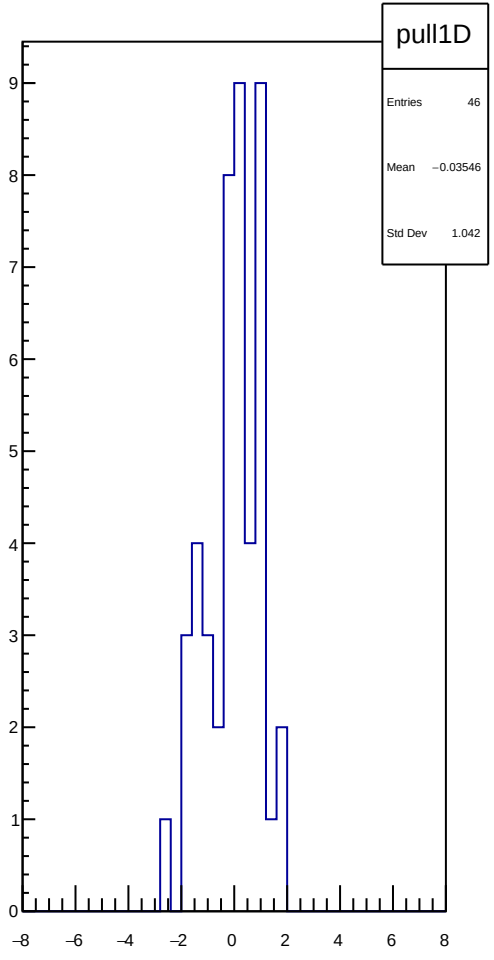
6162. 3
6162. 4
pull
Entries 46
Mean 149
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.03546
Std Dev 1.042
9
8
7
6
5
4
3
2
1
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−4
−2
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2
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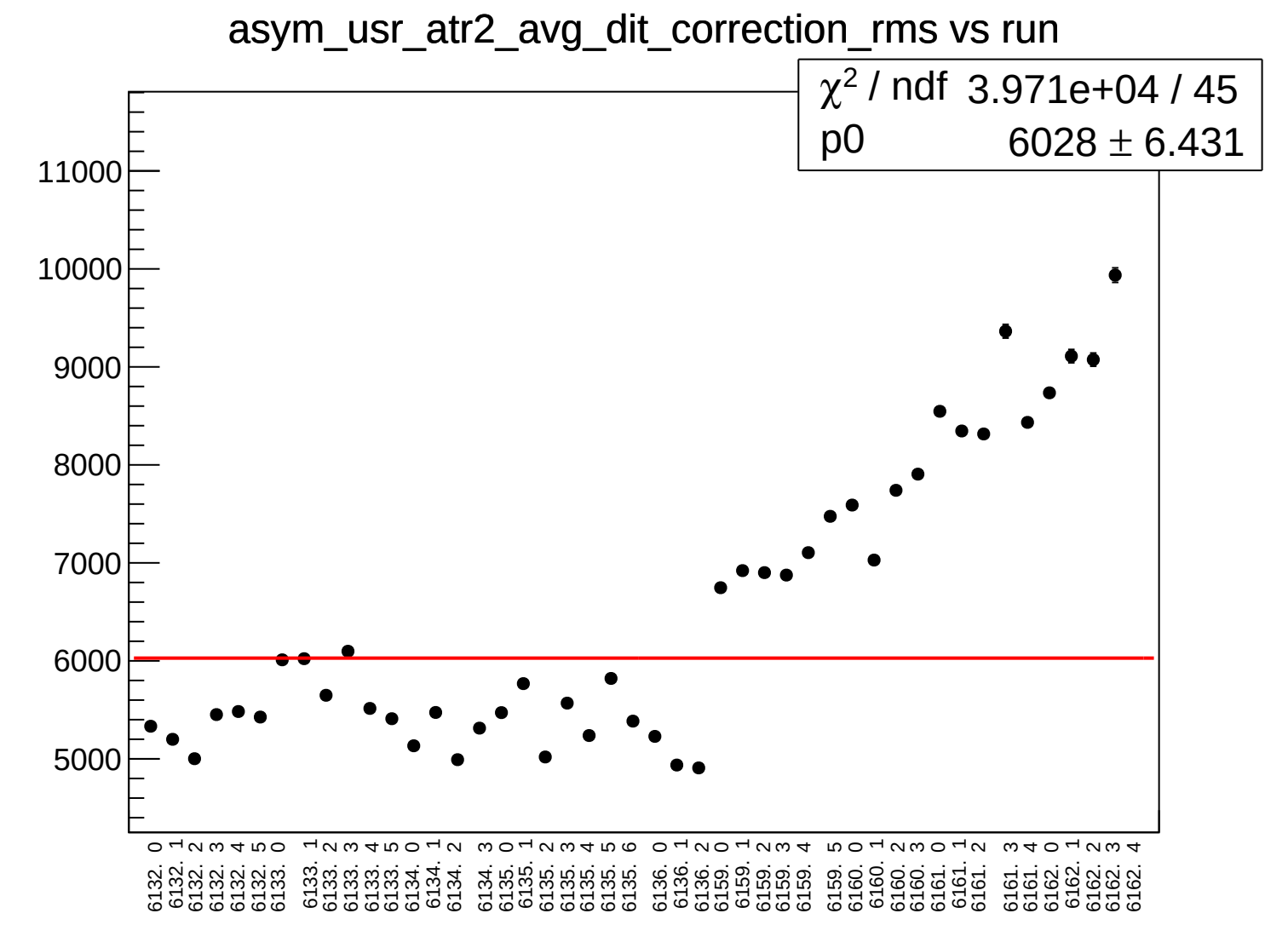
6
8


asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 3.971e+04 / 45
p0 6028 ± 6.431
11000
10000
9000
8000
7000
6000
5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 2
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6136. 2
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6159. 1
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6159. 4
6159. 5
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6160. 1
6160. 2
6160. 3
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6161. 2
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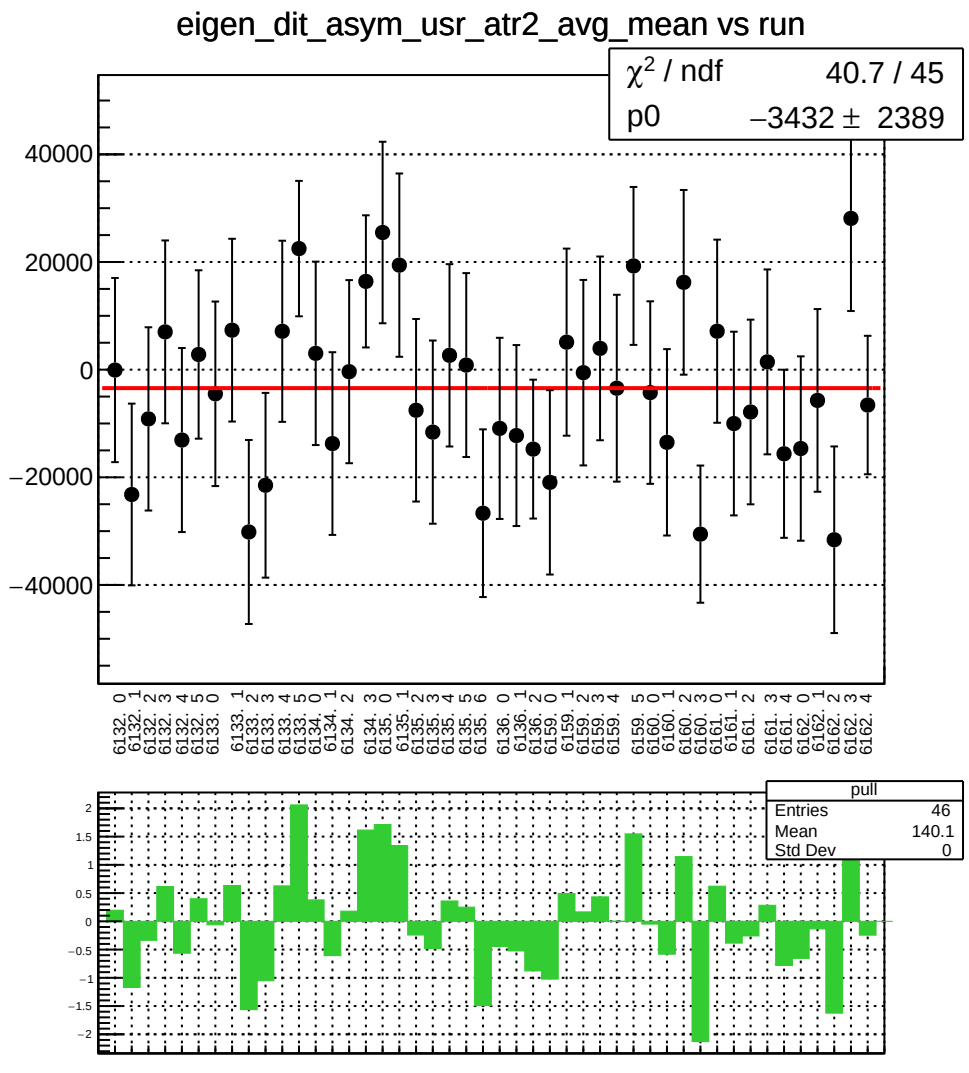
6162. 4


eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 40.7 / 45
p0 −3432 ± 2389
40000
20000
0
−20000
−40000
6132. 0
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6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6161. 2
6161. 3
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6162. 0
6162. 1
6162. 2
6162. 3
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pull
Entries 46
Mean 140.1
Std Dev 0
2
1.5
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0
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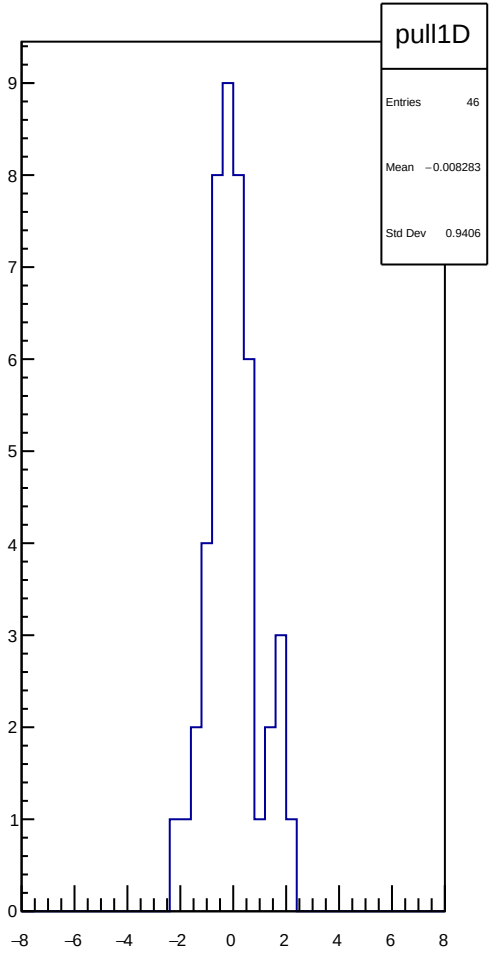
−1.5
−2


pull1D
Entries 46
Mean −0.008283
Std Dev 0.9406
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−2
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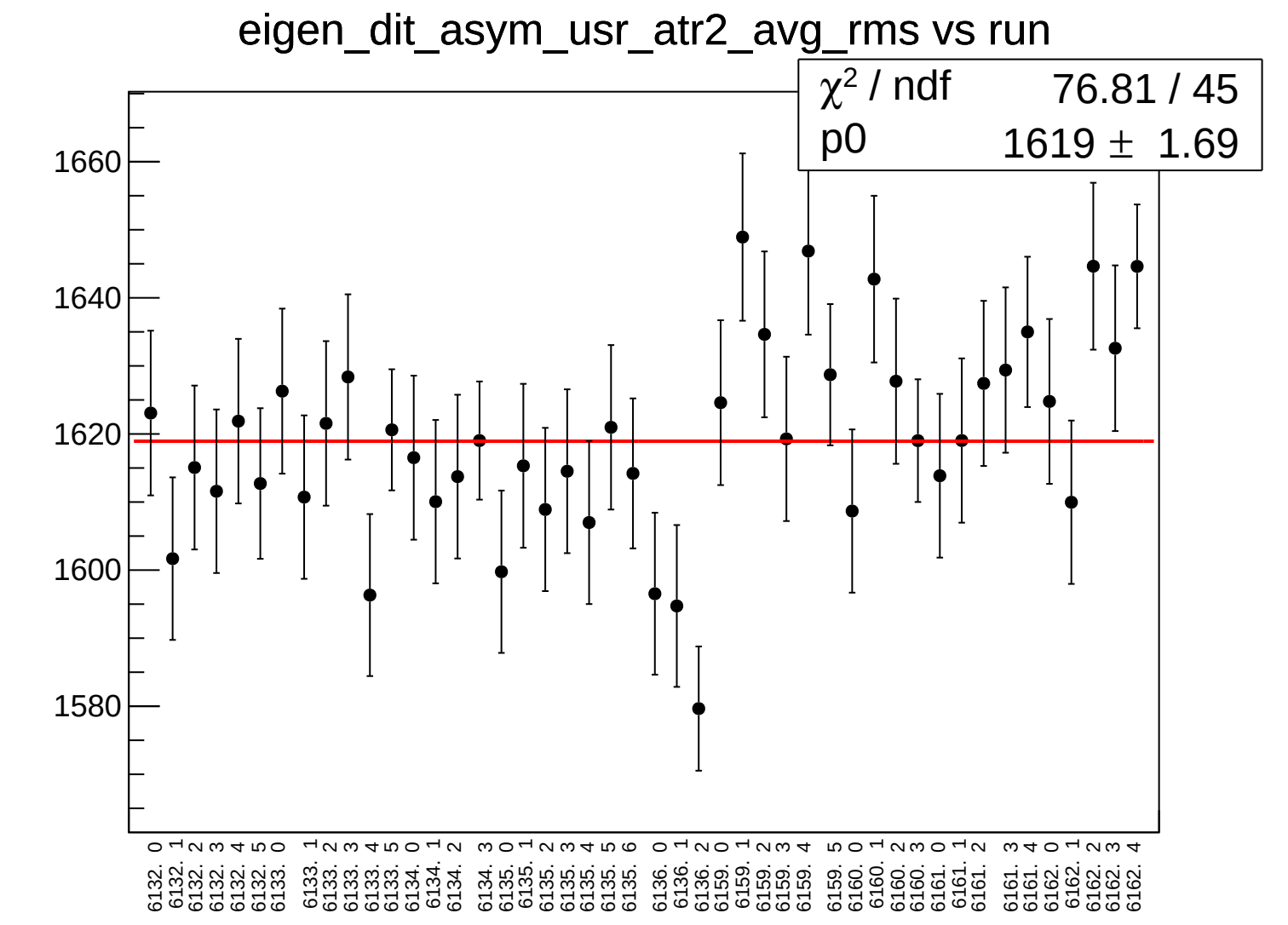
6
8


eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 76.81 / 45
p0 1619 ± 1.69
1660
1640
1620
1600
1580
6132. 0
6132. 1
6132. 2
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6160. 1
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6161. 2
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6161. 4
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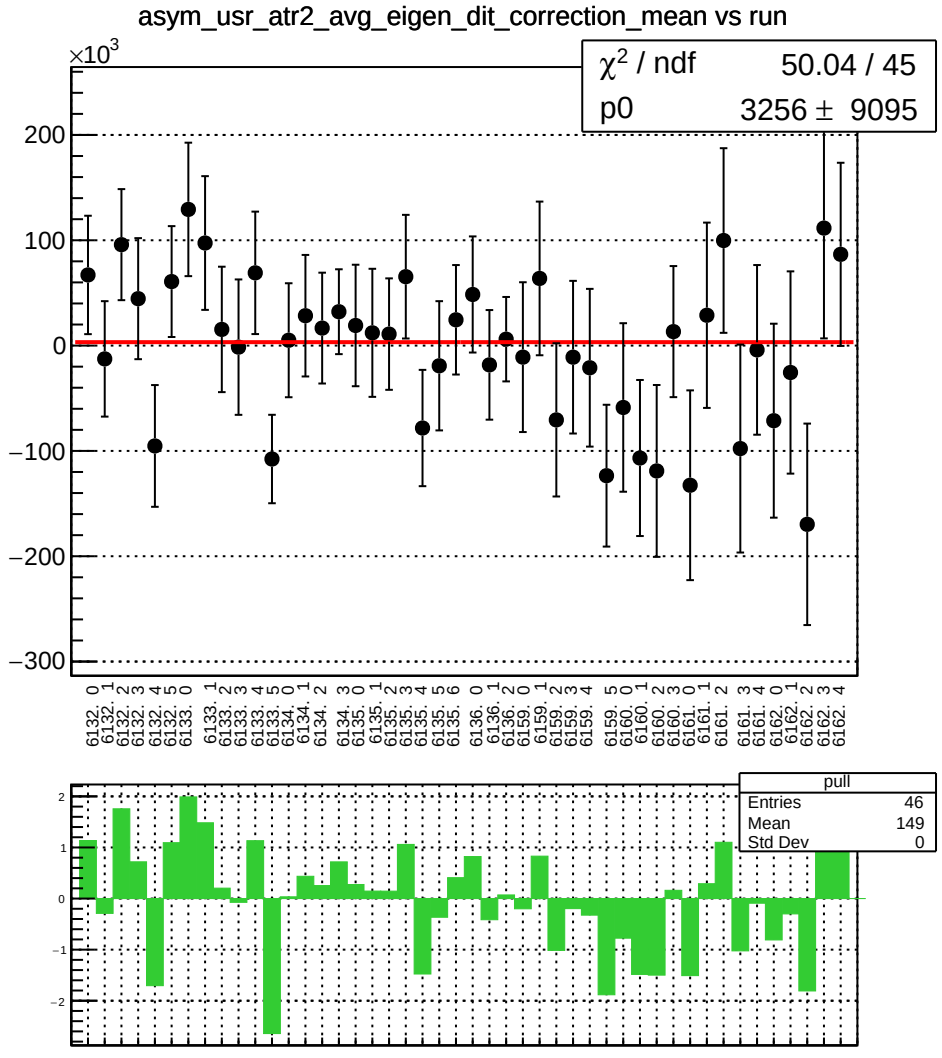
6162. 4


asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 50.04 / 45
p0 3256 ± 9095
200
100
0
−100
−200
−300
6132. 0
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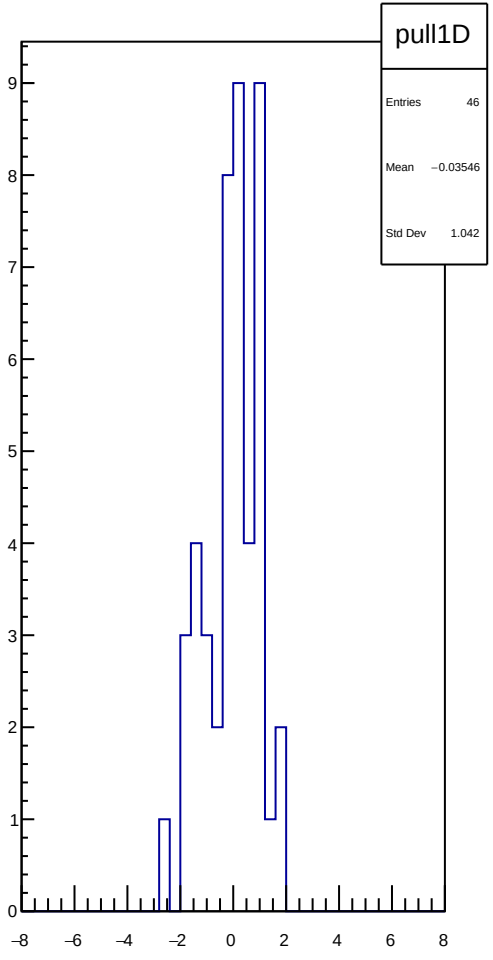
6162. 4
pull
Entries 46
Mean 149
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.03546
Std Dev 1.042
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5
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−4
−2
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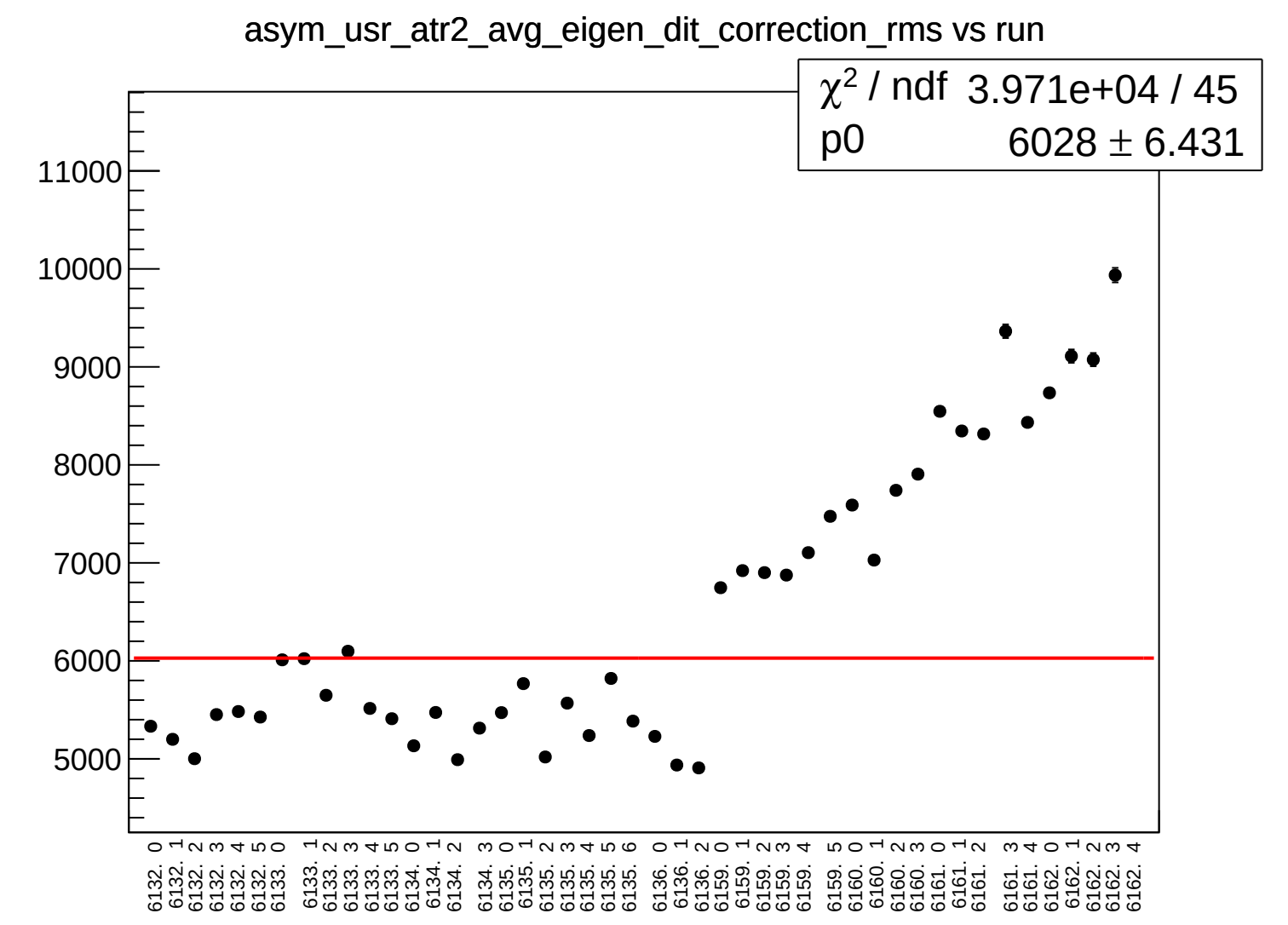
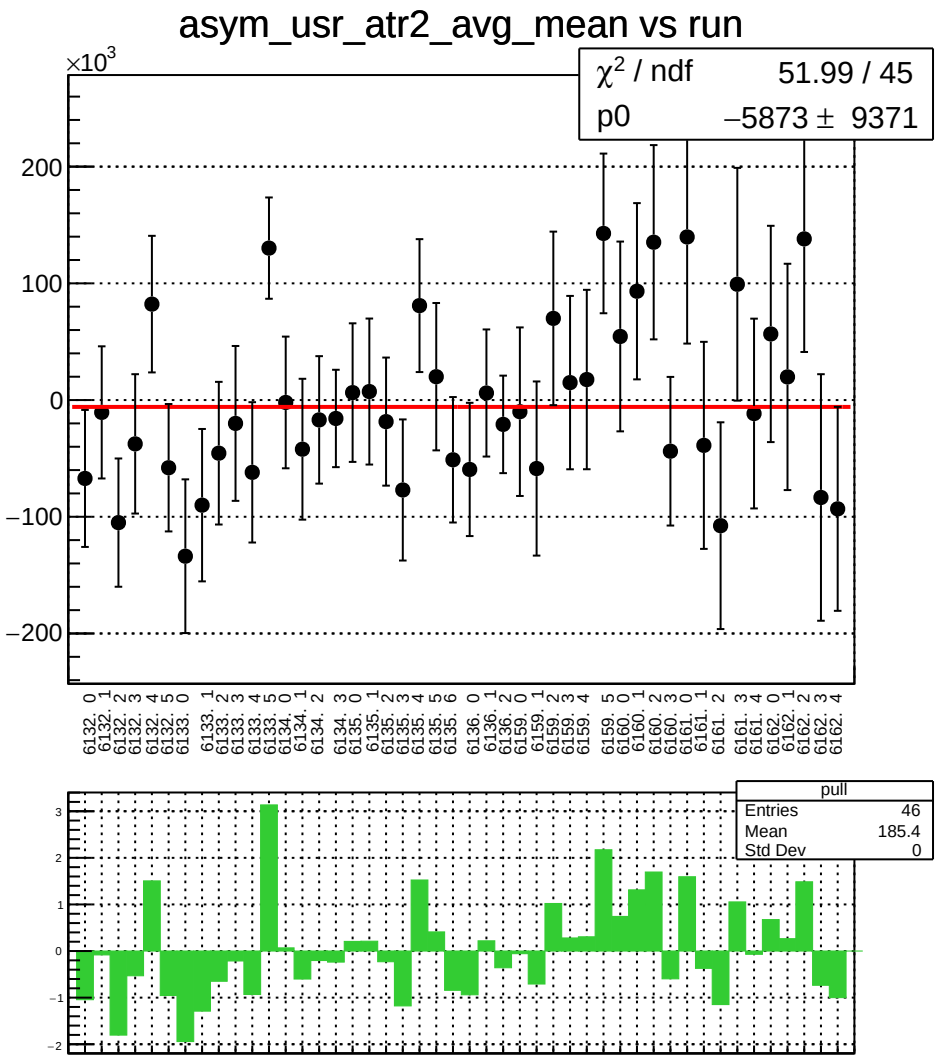
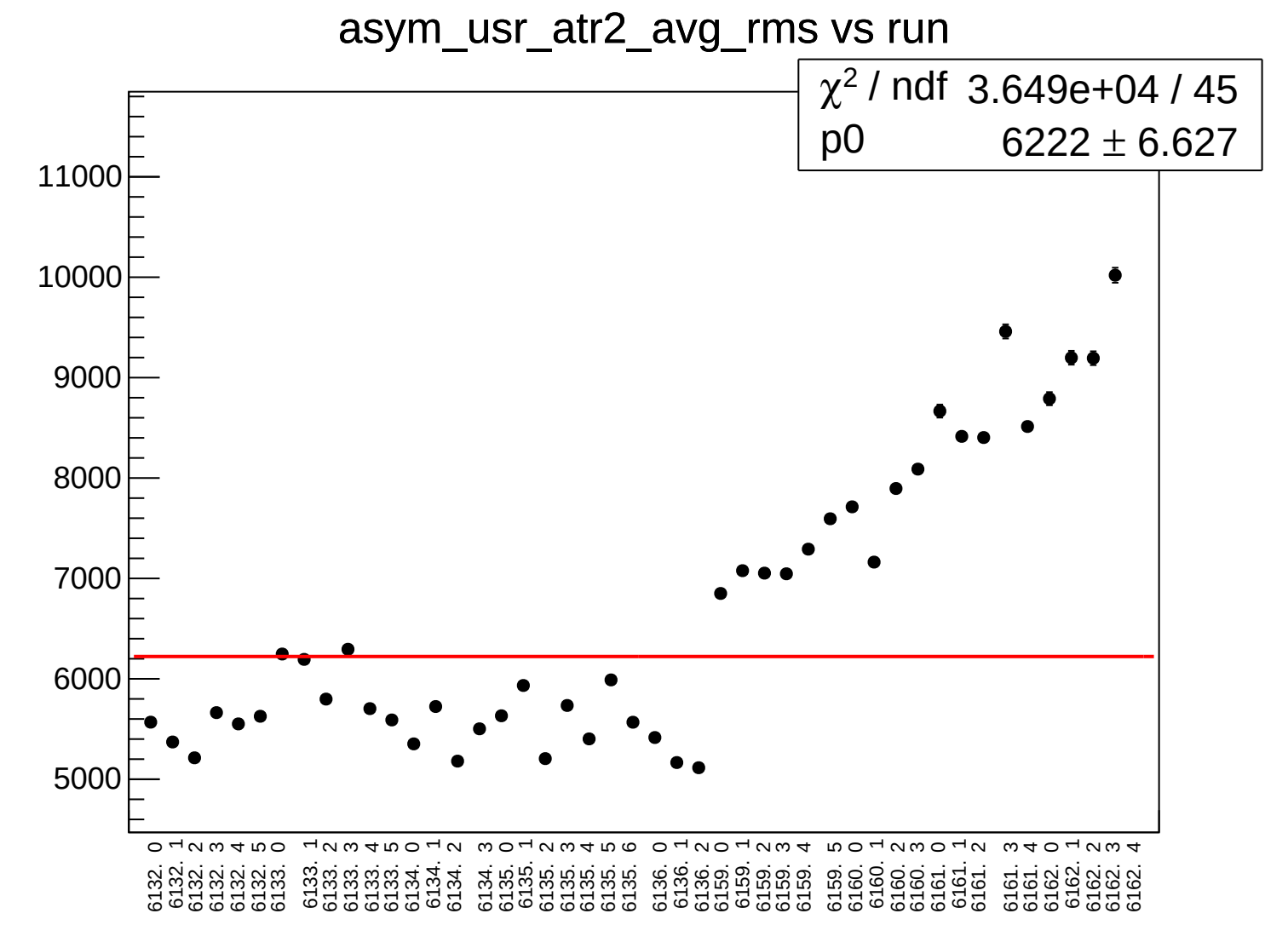
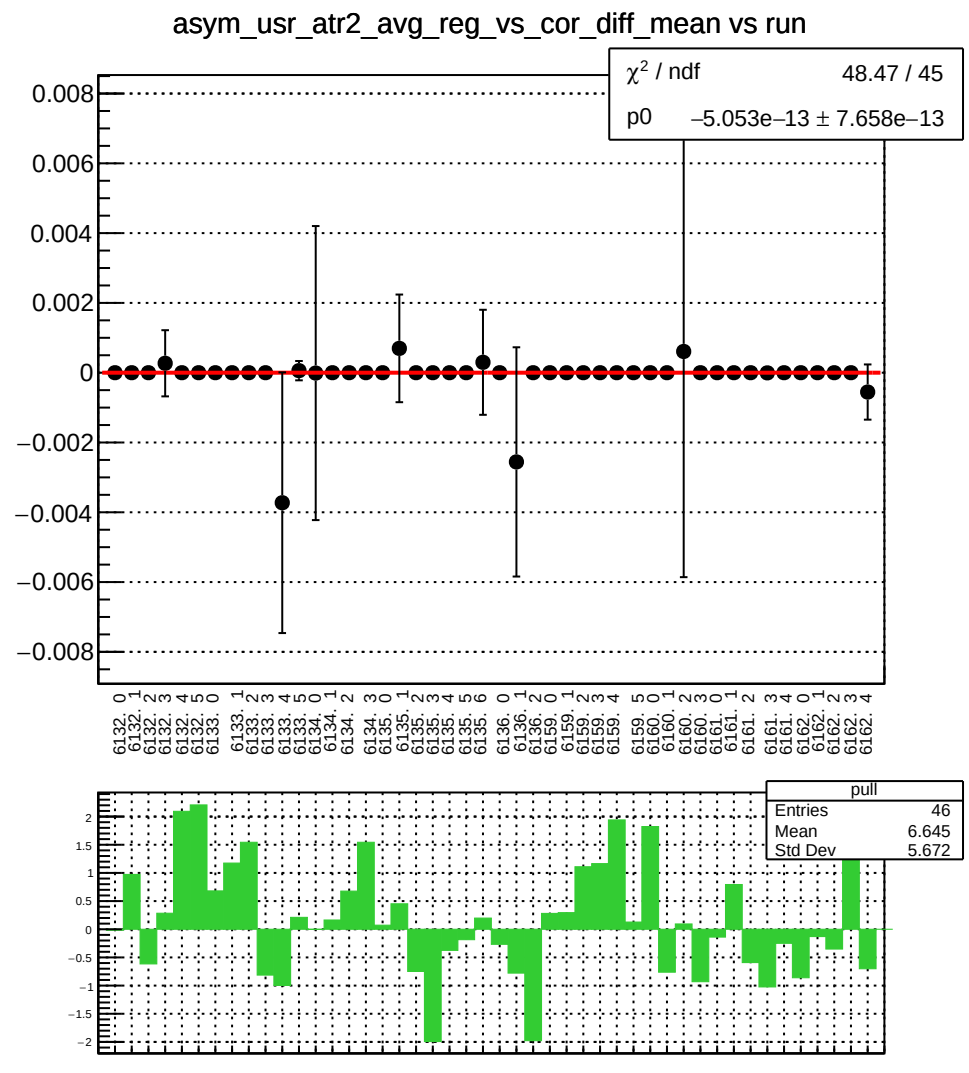
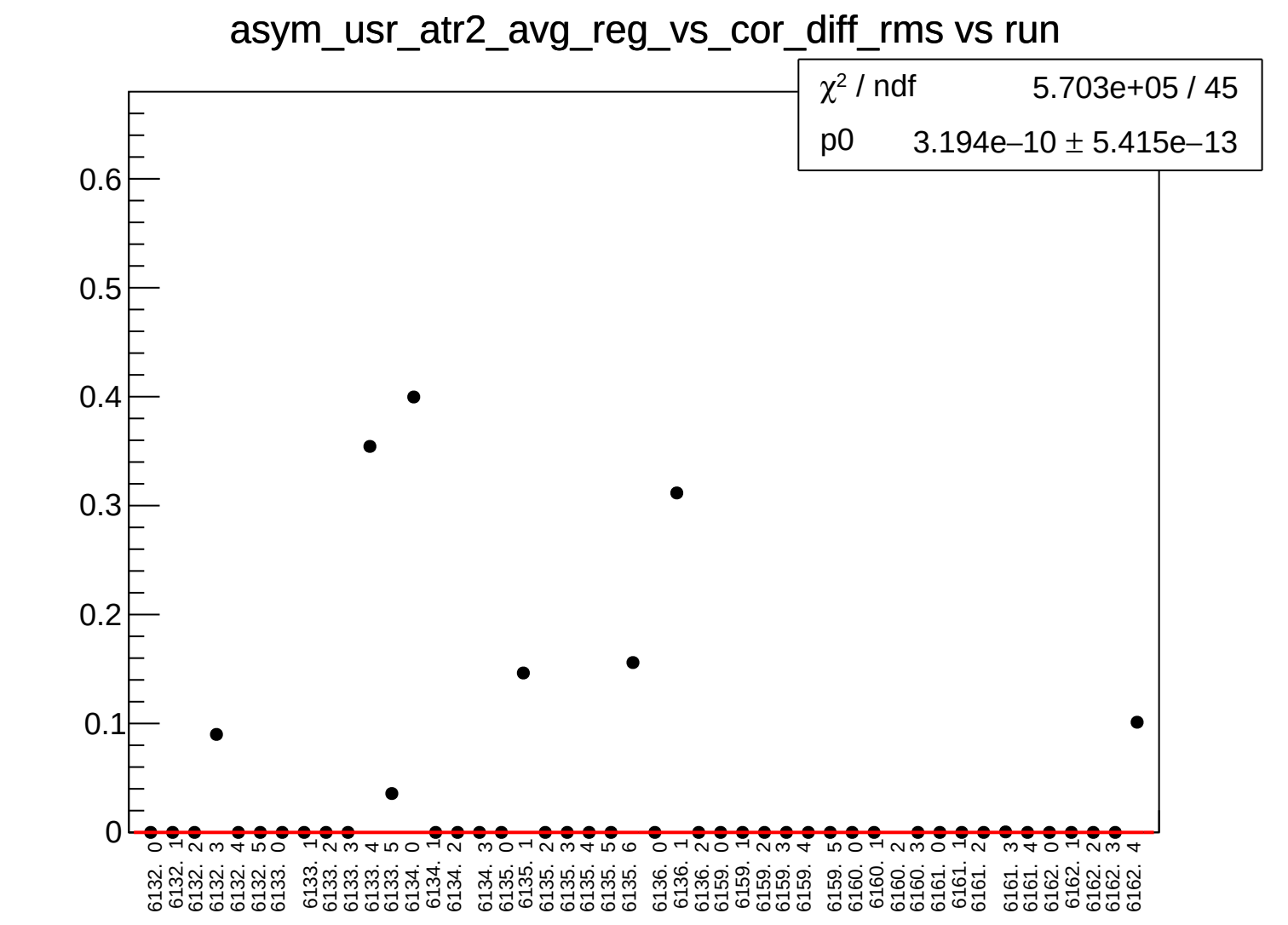
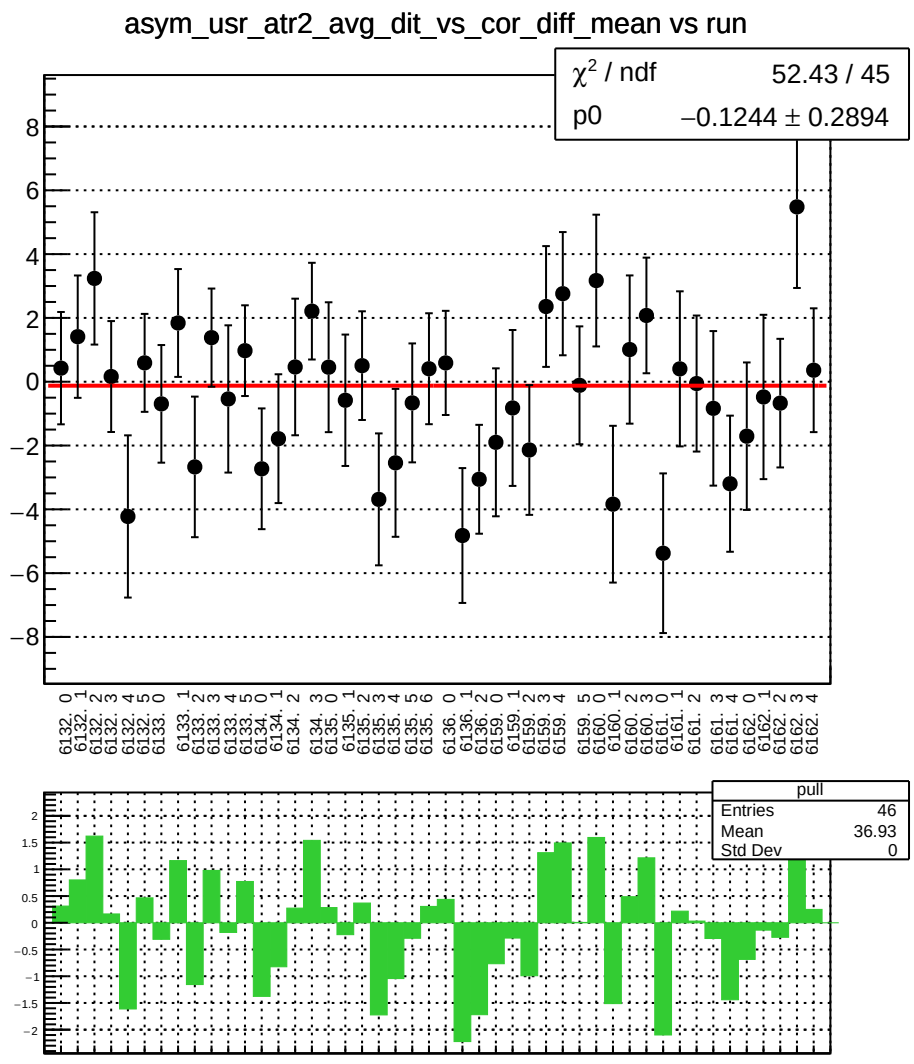

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.971e+04 / 45
p0 6028 ± 6.431
11000
10000
9000
8000
7000
6000
5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

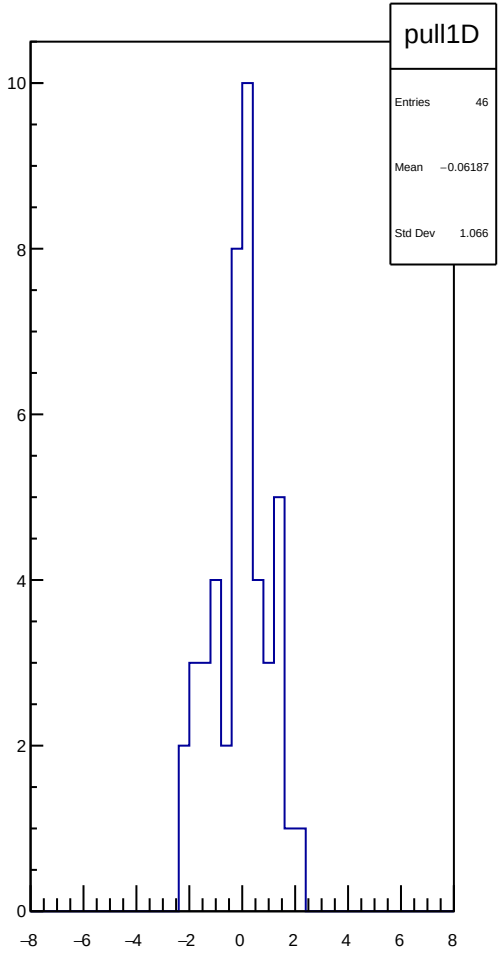

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 51.99 / 45
p0 −5873 ± 9371
200
100
0
−100
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 185.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02537
Std Dev 1.063
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

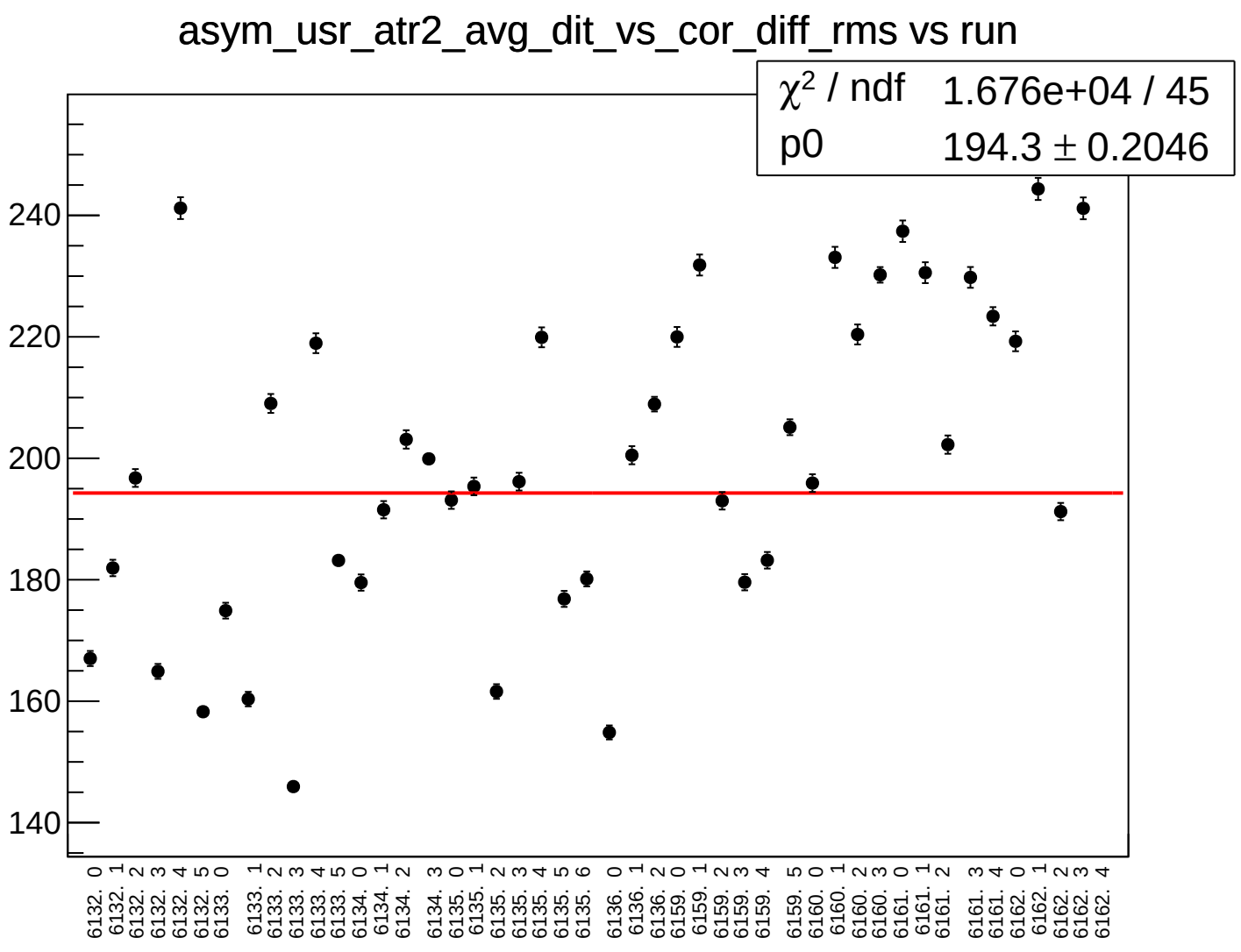

asym_usr_atr2_avg_rms vs run
χ² / ndf 3.649e+04 / 45
p0 6222 ± 6.627
11000
10000
9000
8000
7000
6000
5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

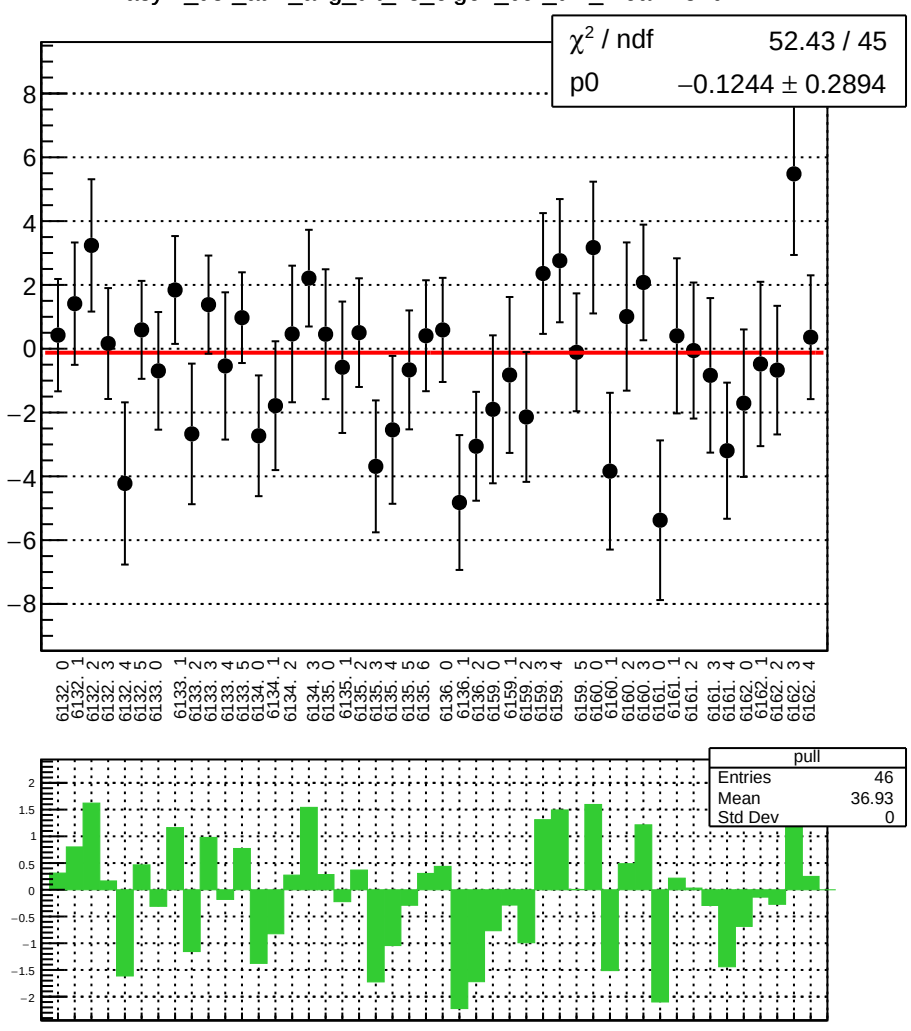

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 48.47 / 45
p0 −5.053e−13 ± 7.658e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 6.645
Std Dev 5.672
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.1643
Std Dev 1.013
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

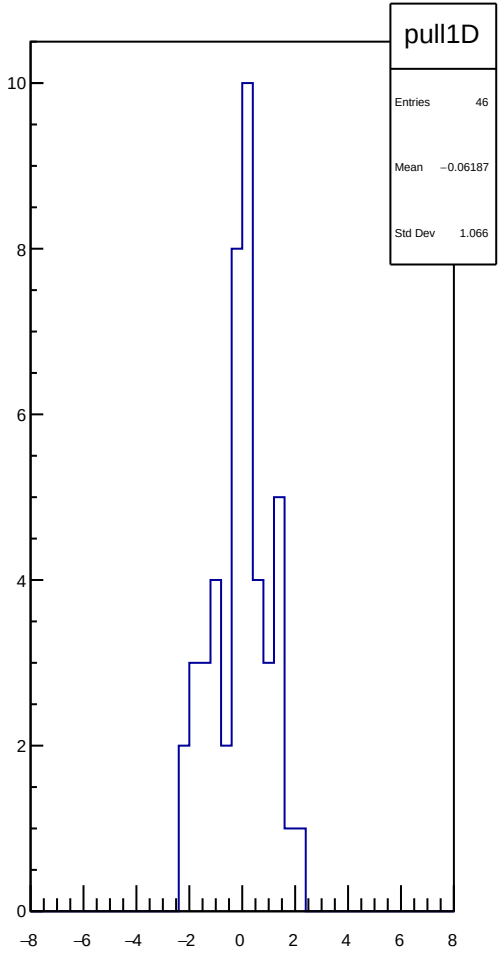

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.703e+05 / 45
p0 3.194e−10 ± 5.415e−13
0.6
0.5
0.4
0.3
0.2
0.1
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

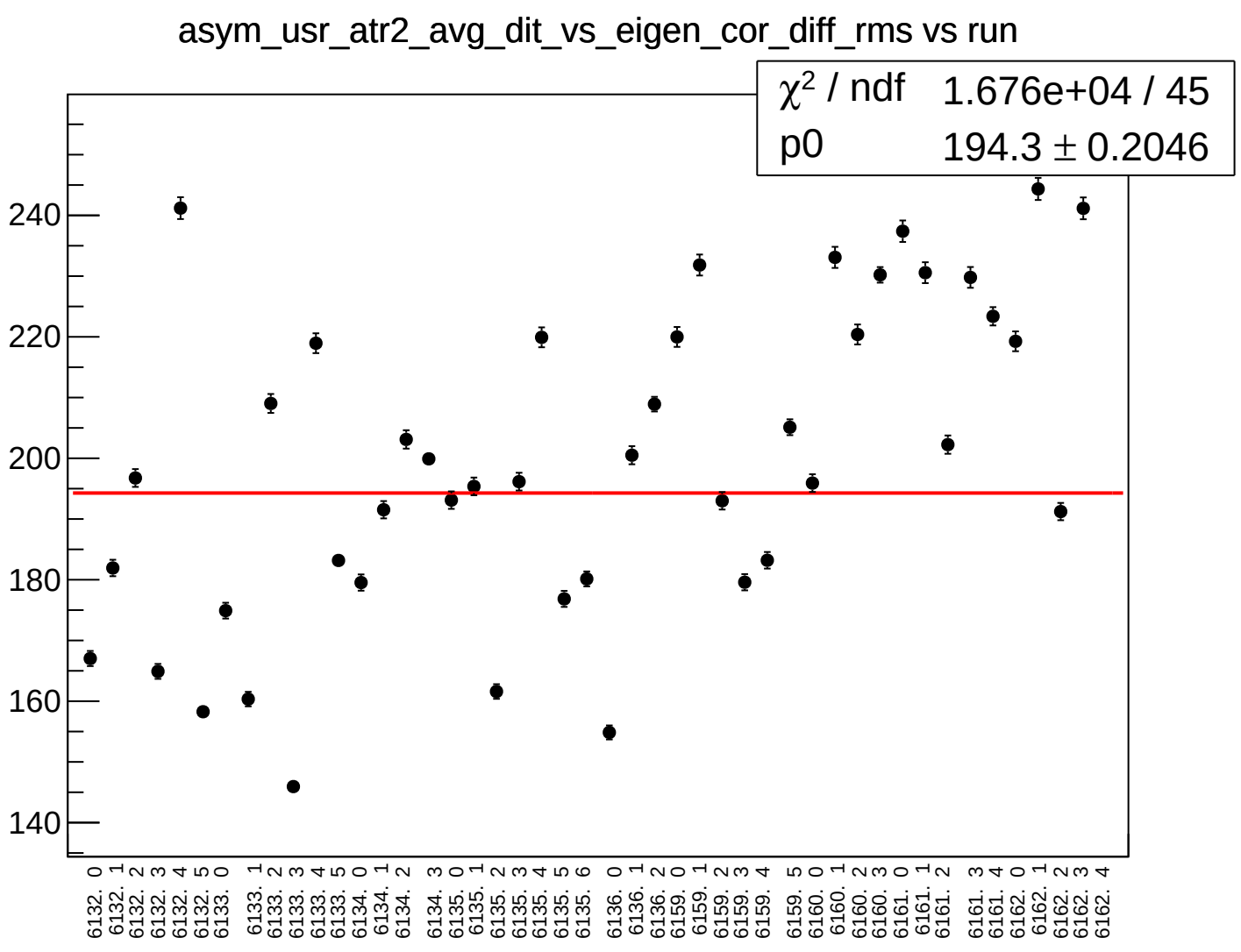

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 52.43 / 45
p0 −0.1244 ± 0.2894
pull
Entries 46
Mean 36.93
Std Dev 0

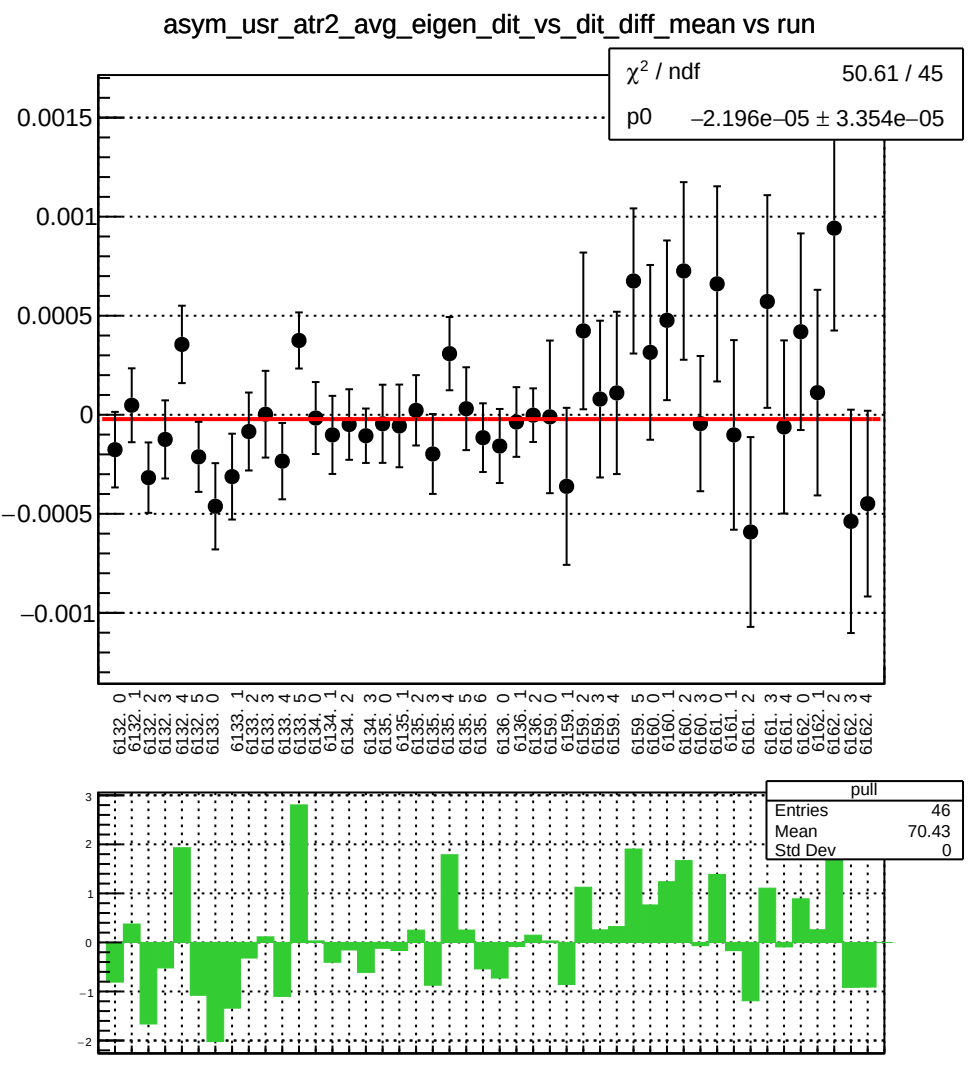

pull1D
Entries 46
Mean −0.06187
Std Dev 1.066

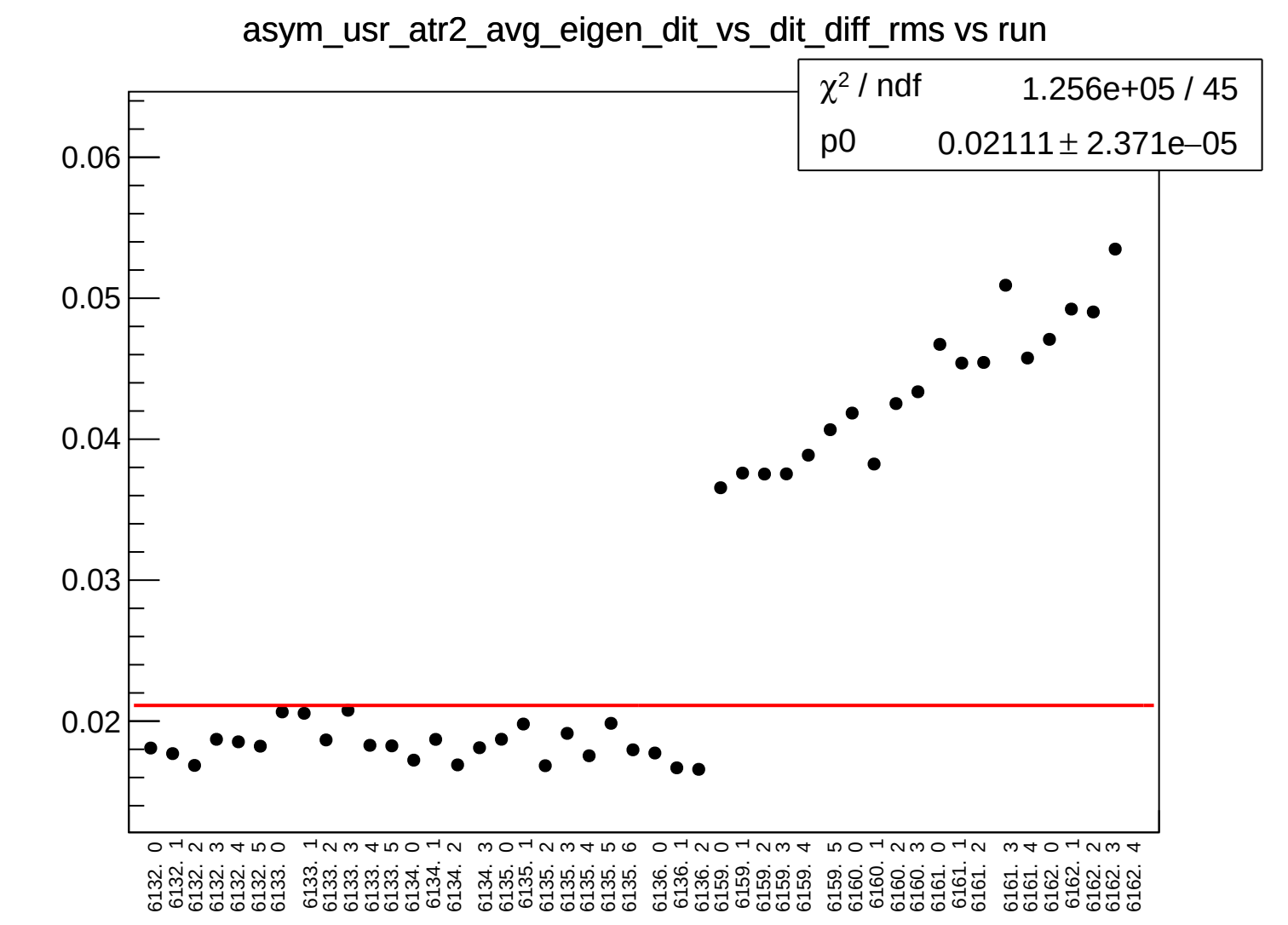

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.676e+04 / 45
p0 194.3 ± 0.2046
240
220
200
180
160
140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

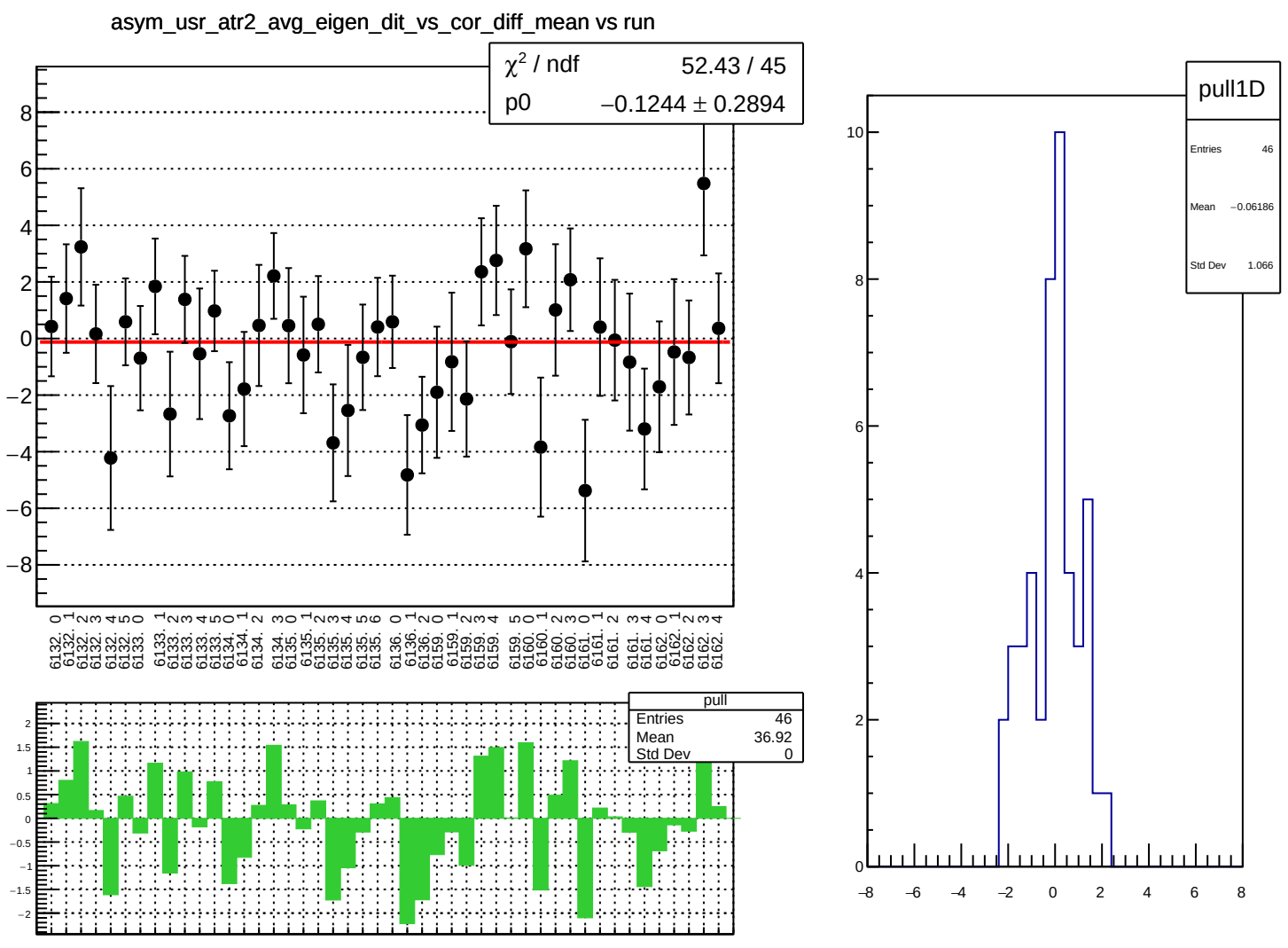

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.43 / 45
p0 −0.1244 ± 0.2894
pull
Entries 46
Mean 36.93
Std Dev 0

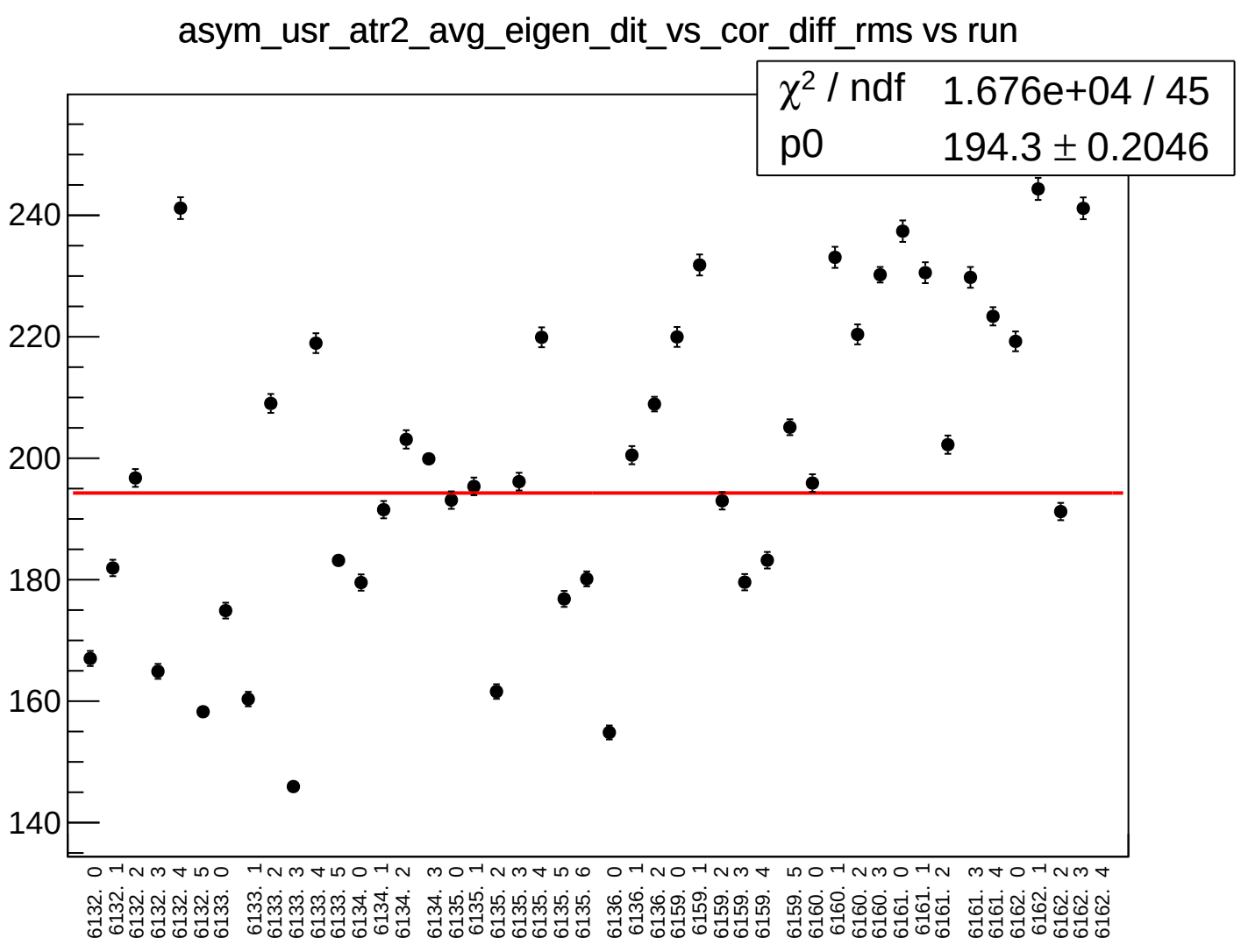

pull1D
Entries 46
Mean −0.06187
Std Dev 1.066

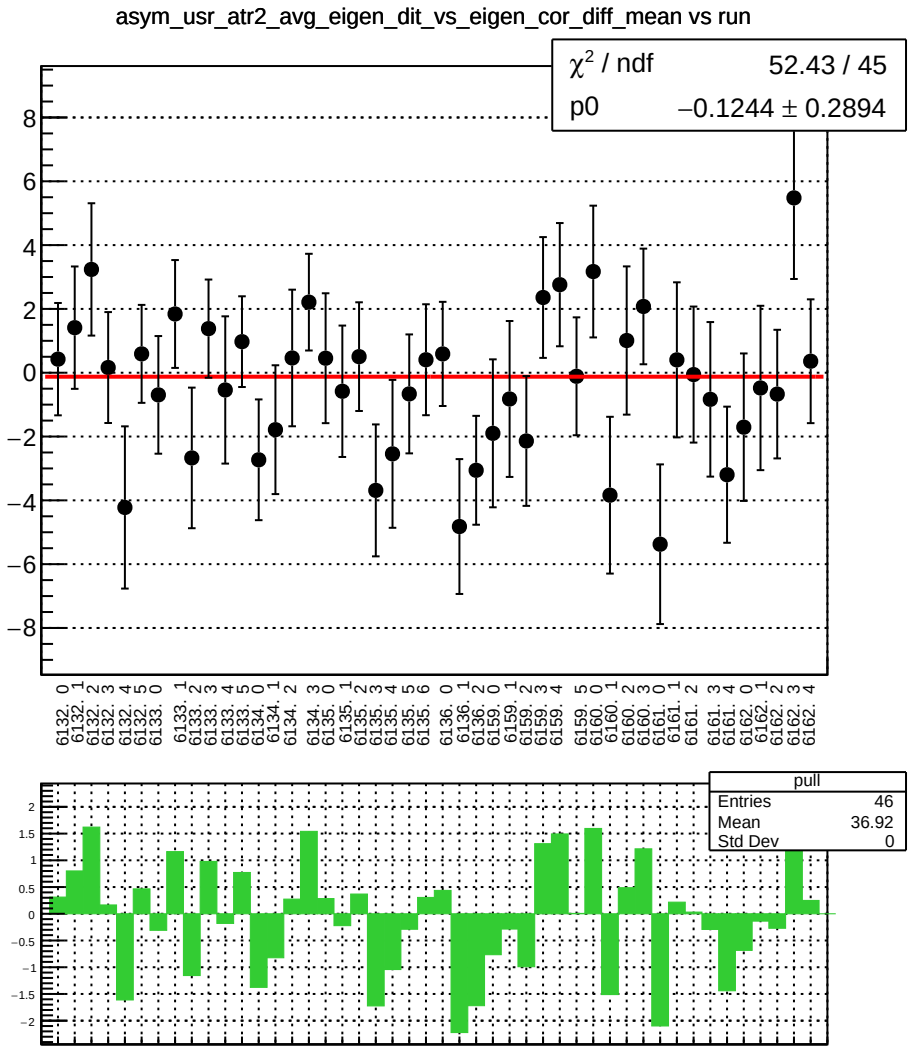

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.676e+04 / 45
p0 194.3 ± 0.2046
240
220
200
180
160
140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

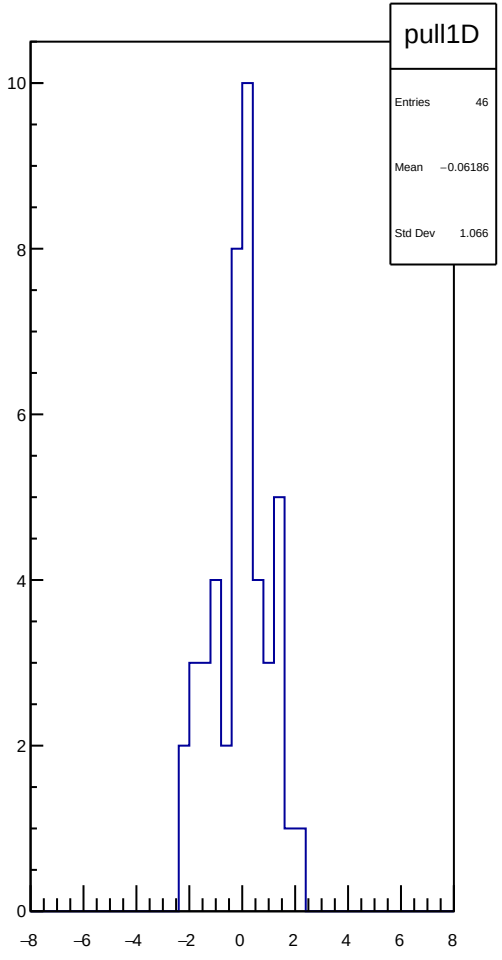

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 50.61 / 45
p0 −2.196e−05 ± 3.354e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 70.43
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.08245
Std Dev 1.046
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

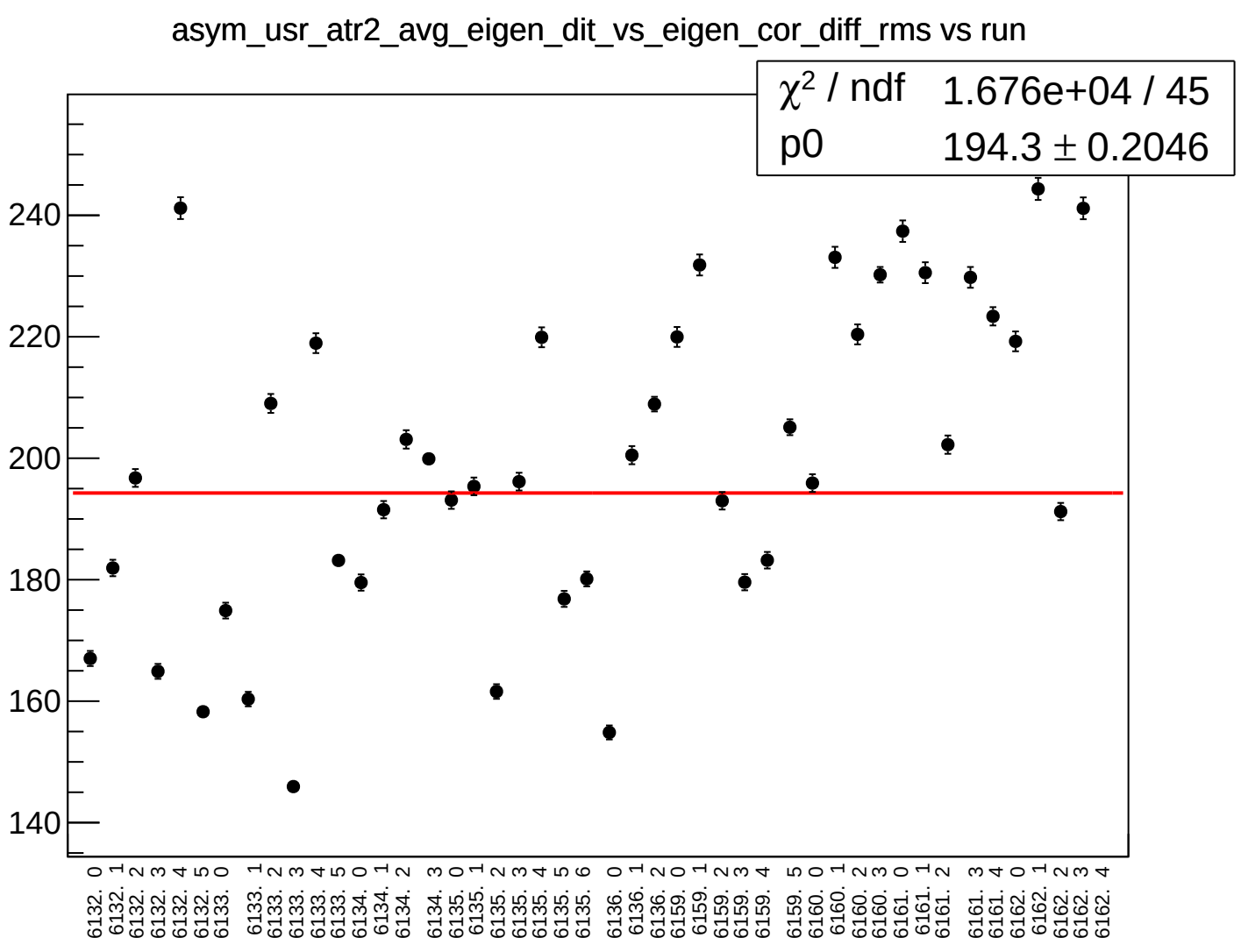

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.256e+05 / 45
p0 0.02111 ± 2.371e–05
0.06
0.05
0.04
0.03
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 52.43 / 45
p0 −0.1244 ± 0.2894
pull
Entries 46
Mean 36.92
Std Dev 0
pull1D
Entries 46
Mean −0.06186
Std Dev 1.066


asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.676e+04 / 45
p0 194.3 ± 0.2046
240
220
200
180
160
140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.43 / 45
p0 −0.1244 ± 0.2894
pull
Entries 46
Mean 36.92
Std Dev 0


pull1D
Entries 46
Mean −0.06186
Std Dev 1.066


asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.676e+04 / 45
p0 194.3 ± 0.2046
240
220
200
180
160
140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
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6135. 1
6135. 2
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6135. 5
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6136. 0
6136. 1
6136. 2
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6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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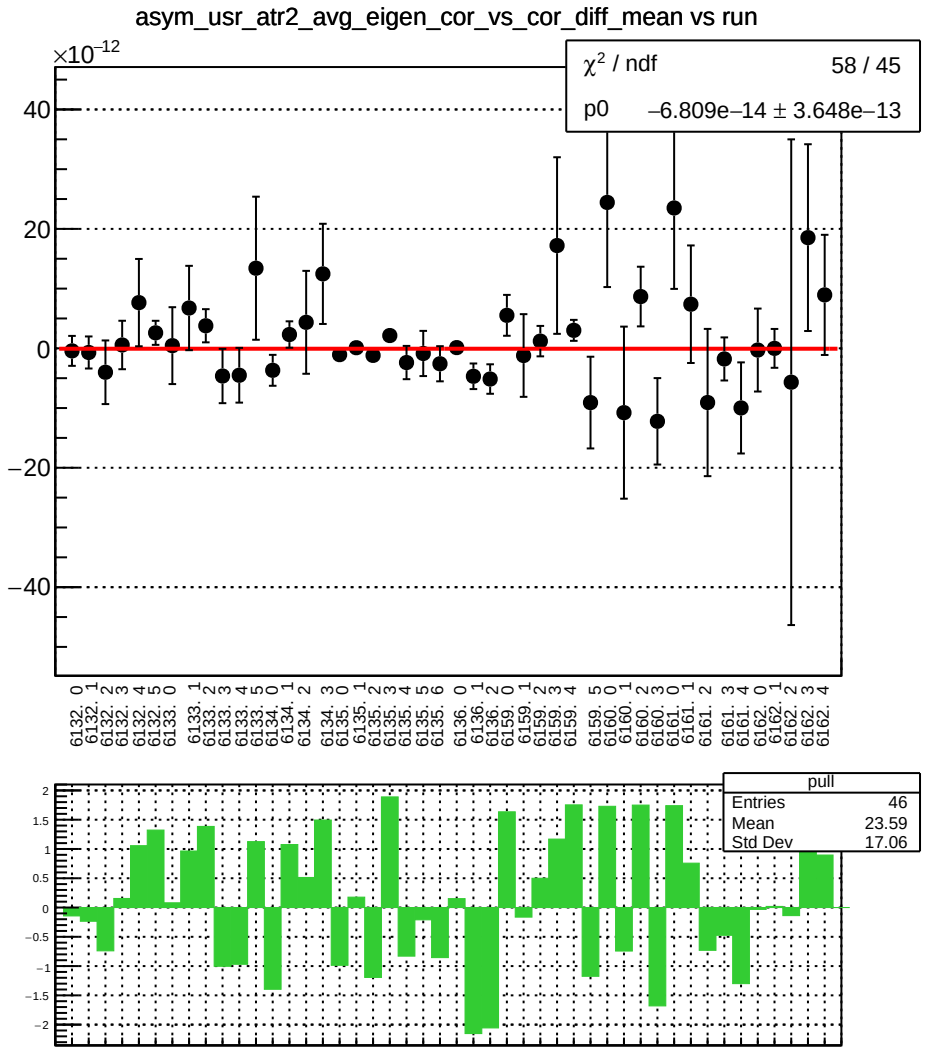
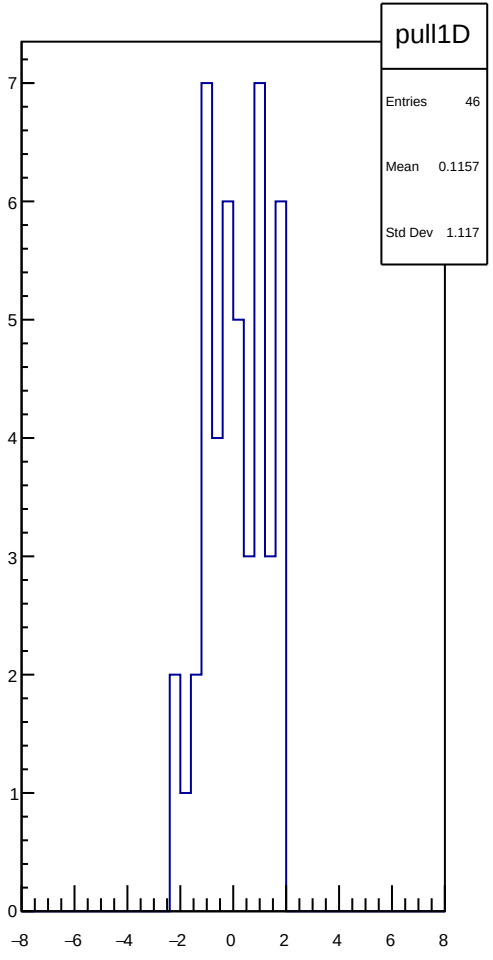
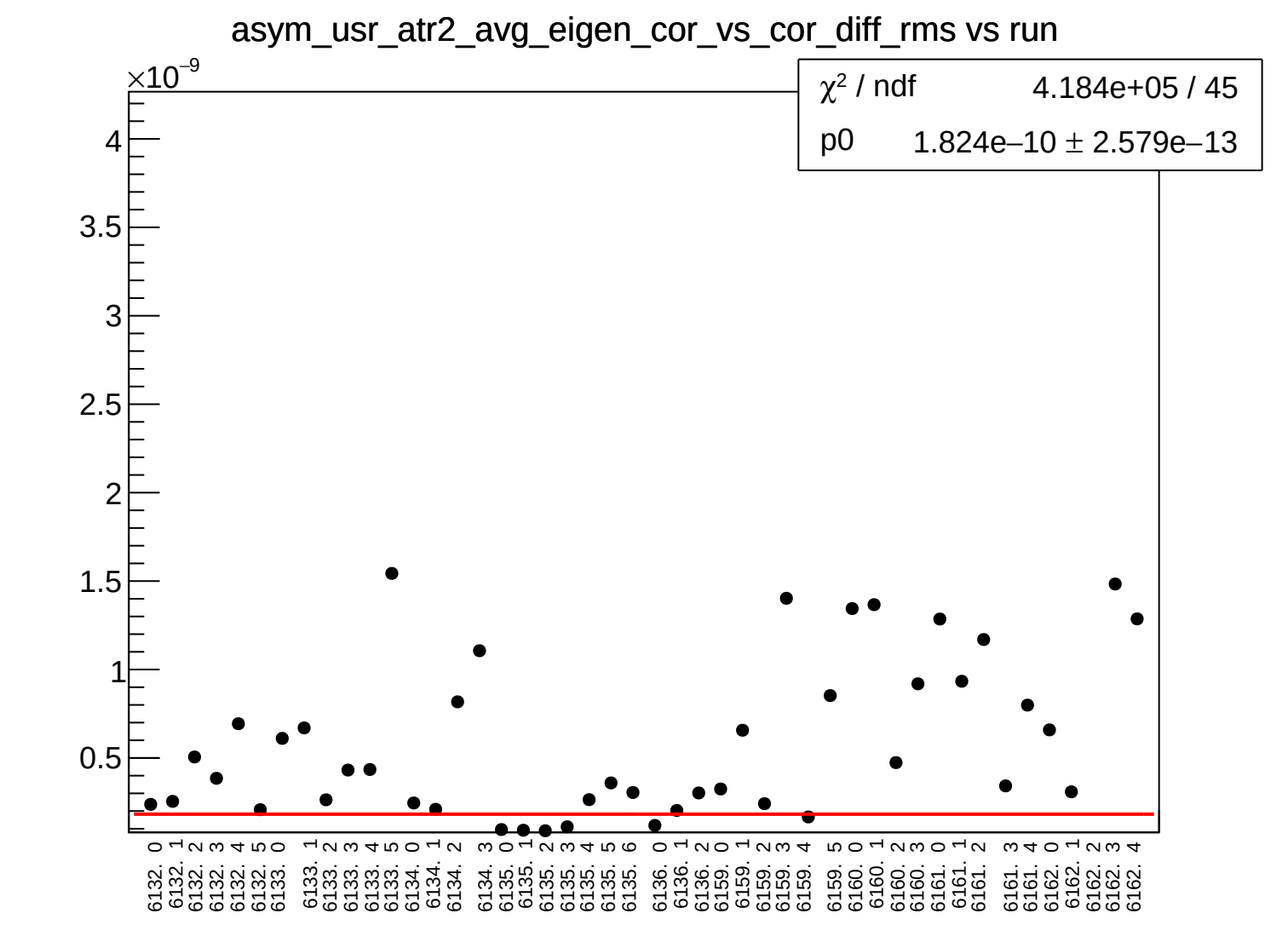
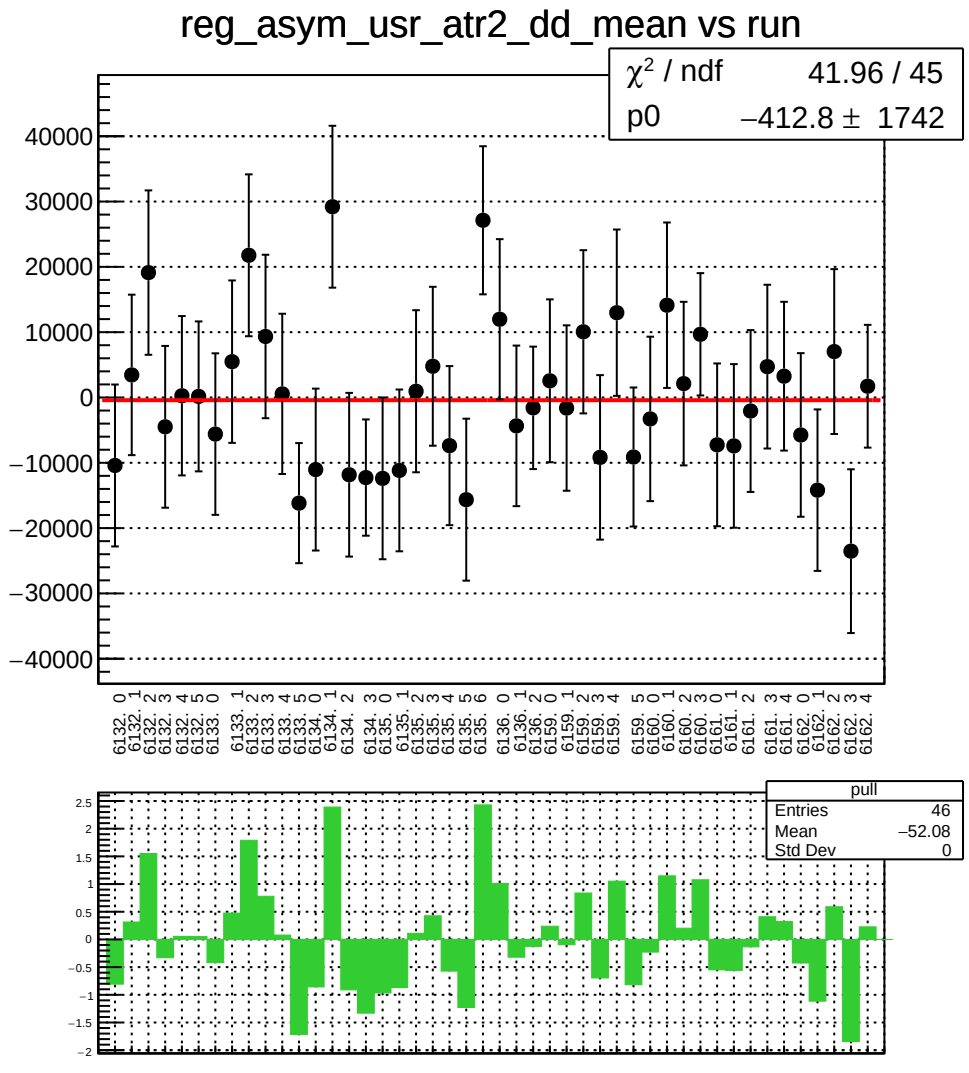
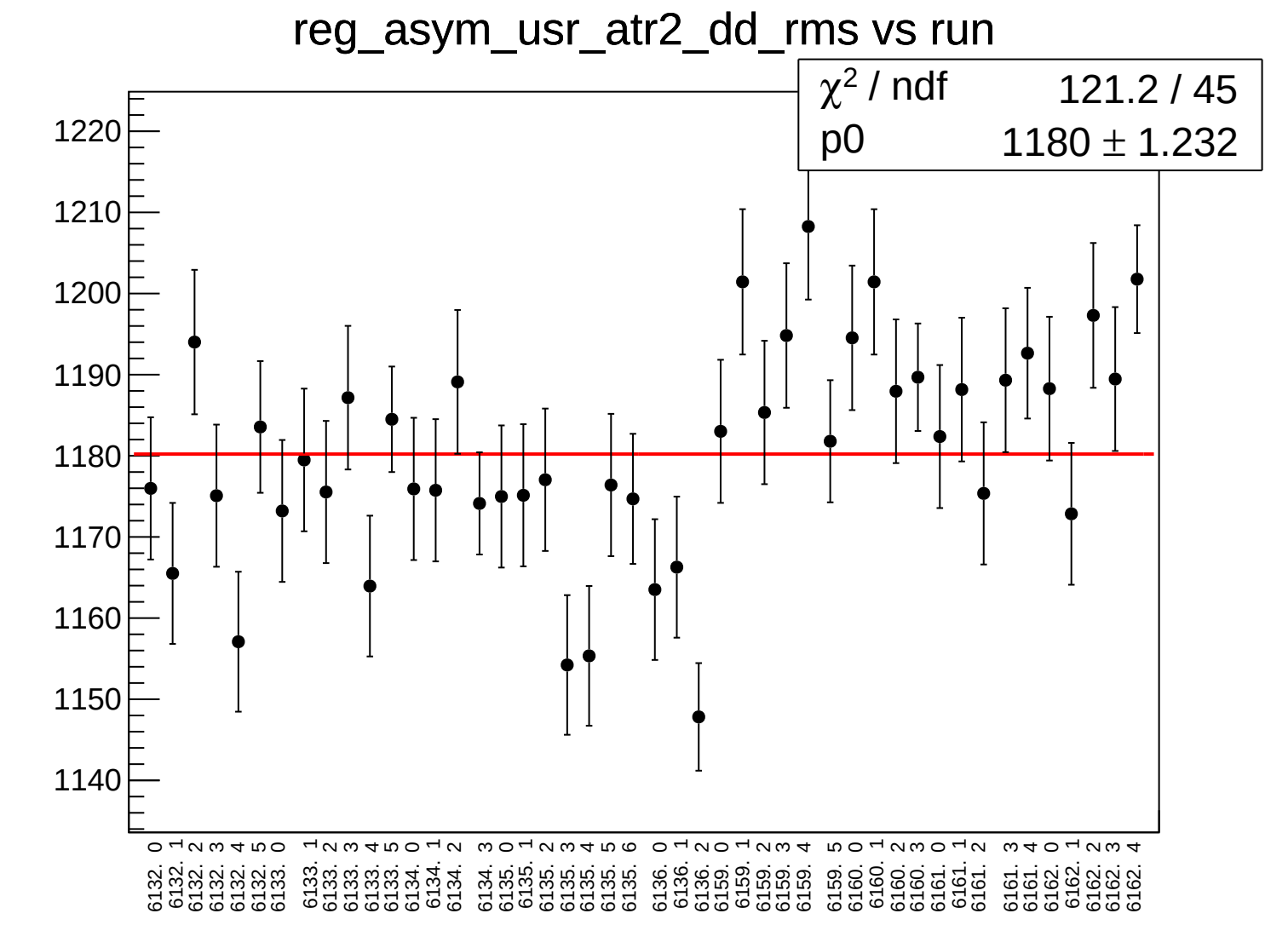
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 58 / 45
p0 −6.809e−14 ± 3.648e−13
40
20
0
−20
−40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 23.59
Std Dev 17.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.1157
Std Dev 1.117
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.184e+05 / 45
p0 1.824e−10 ± 2.579e−13
4
3.5
3
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 41.96 / 45
p0 −412.8 ± 1742
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −52.08
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.01429
Std Dev 0.955
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 121.2 / 45
p0 1180 ± 1.232
1220
1210
1200
1190
1180
1170
1160
1150
1140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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6133. 4
6133. 5
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6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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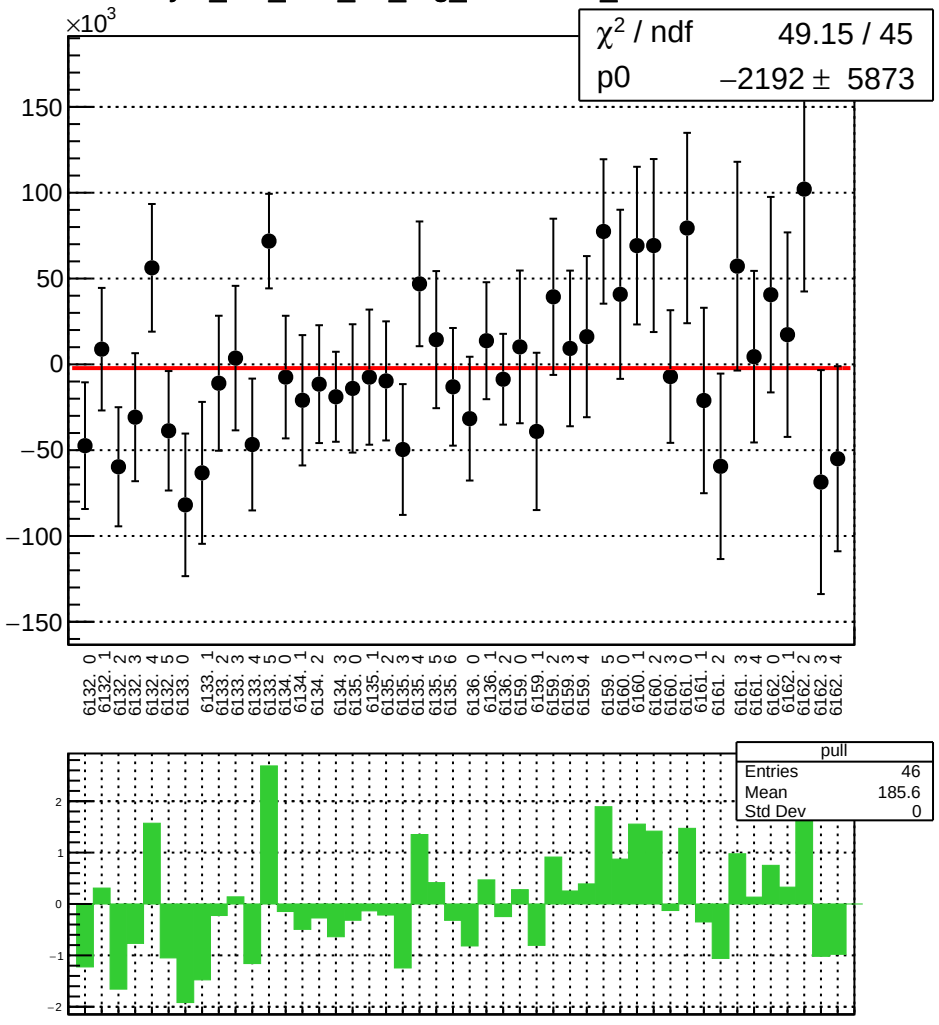
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 49.15 / 45
p0 −2192 ± 5873
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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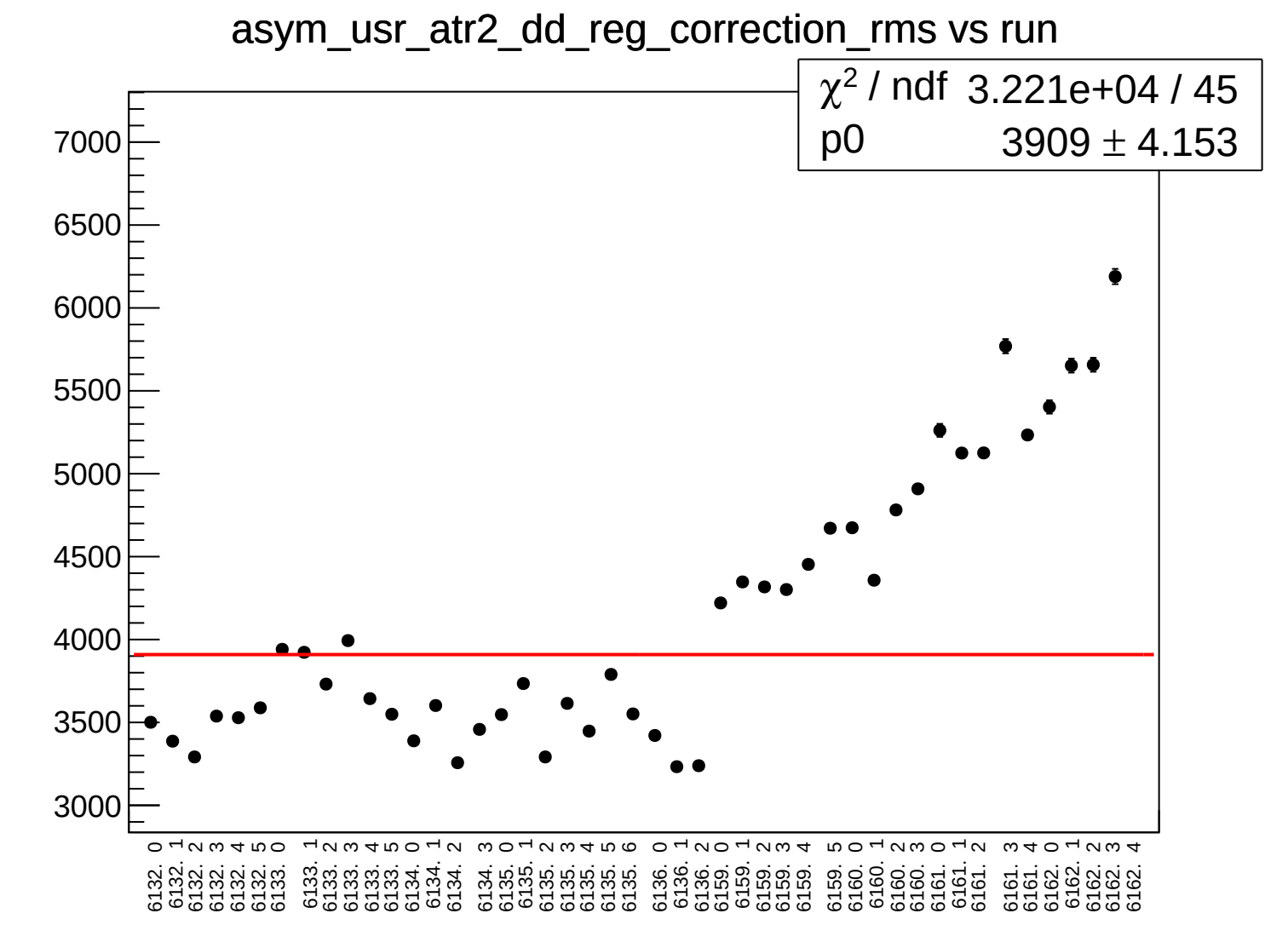
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 185.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02771
Std Dev 1.033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 3.221e+04 / 45
p0 3909 ± 4.153
7000
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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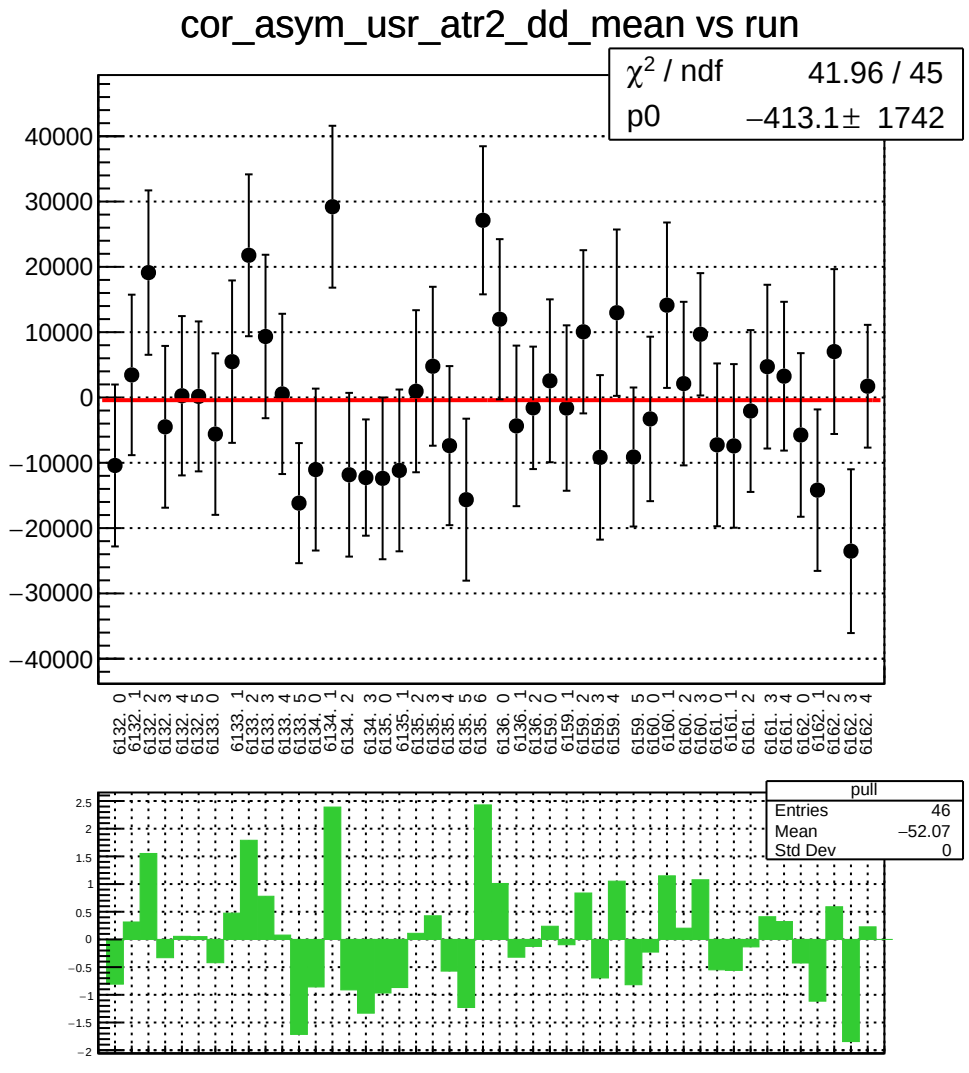
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 41.96 / 45
p0 −413.1± 1742
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −52.07
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.01429
Std Dev 0.955
9
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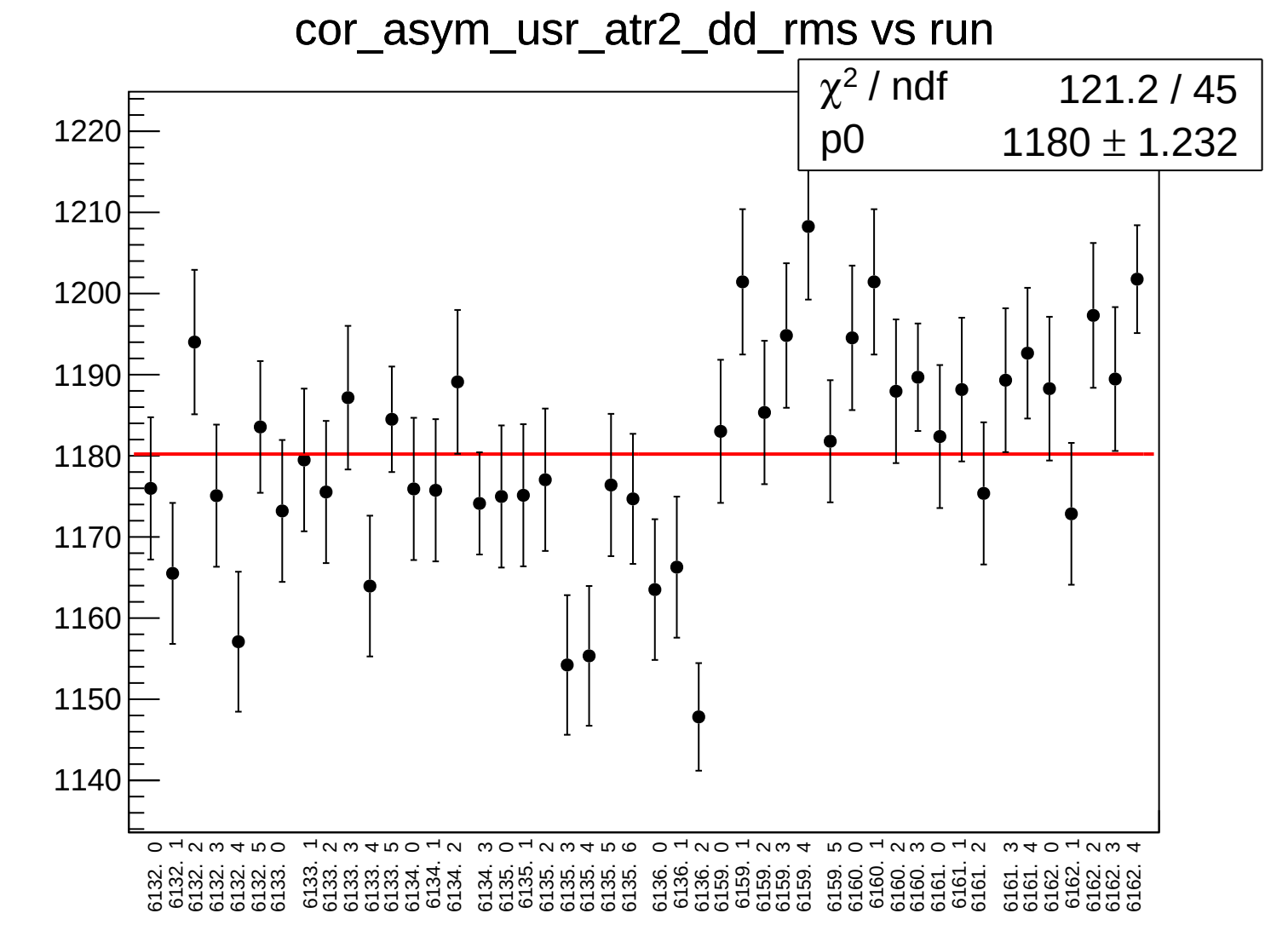
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 121.2 / 45
p0 1180 ± 1.232
1220
1210
1200
1190
1180
1170
1160
1150
1140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
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
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
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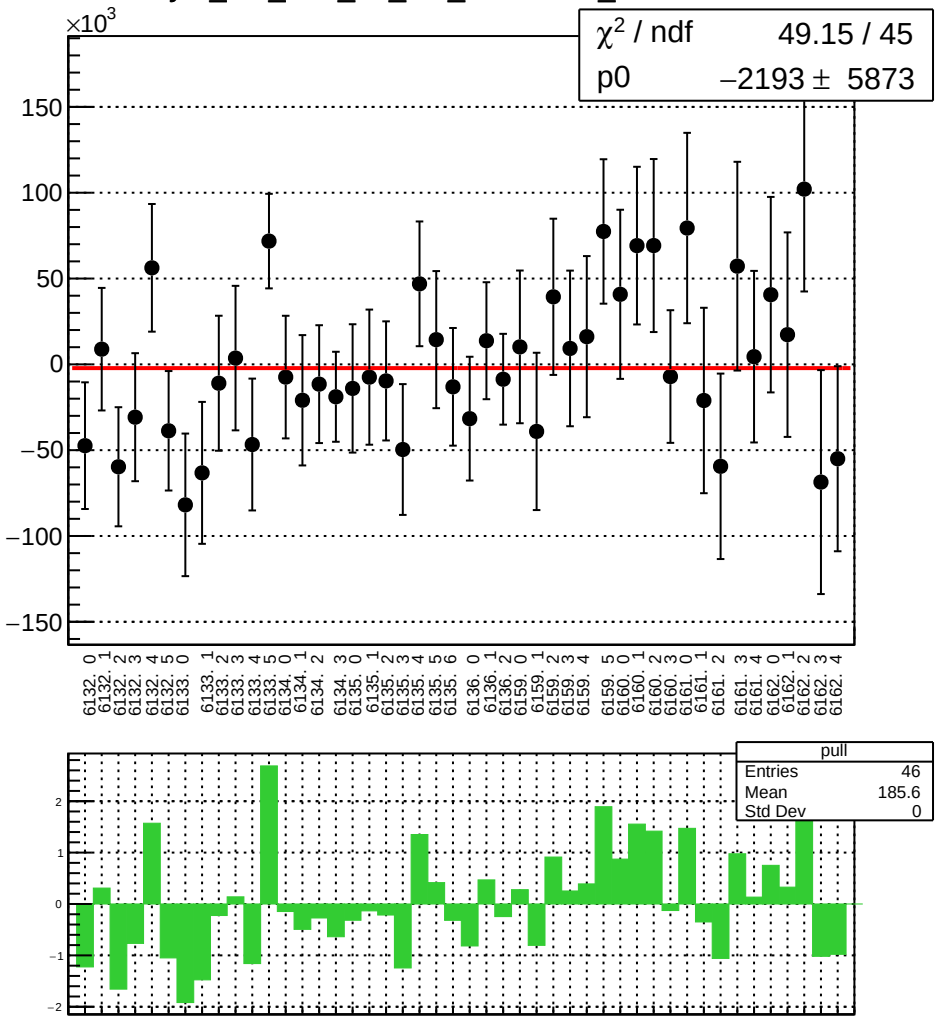
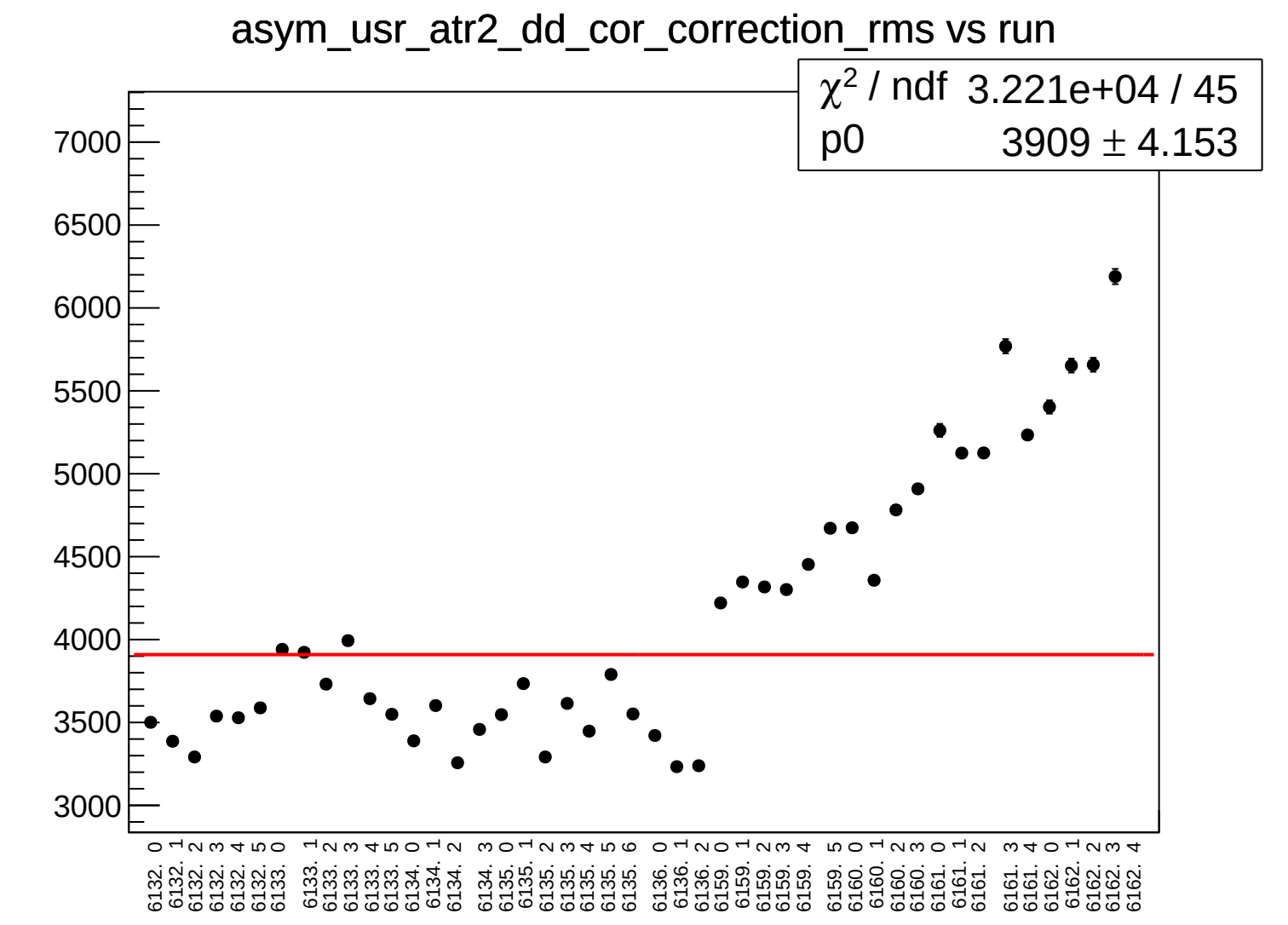
6162. 4


asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 49.15 / 45
p0 −2193 ± 5873
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 185.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02772
Std Dev 1.033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 3.221e+04 / 45
p0 3909 ± 4.153
7000
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
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
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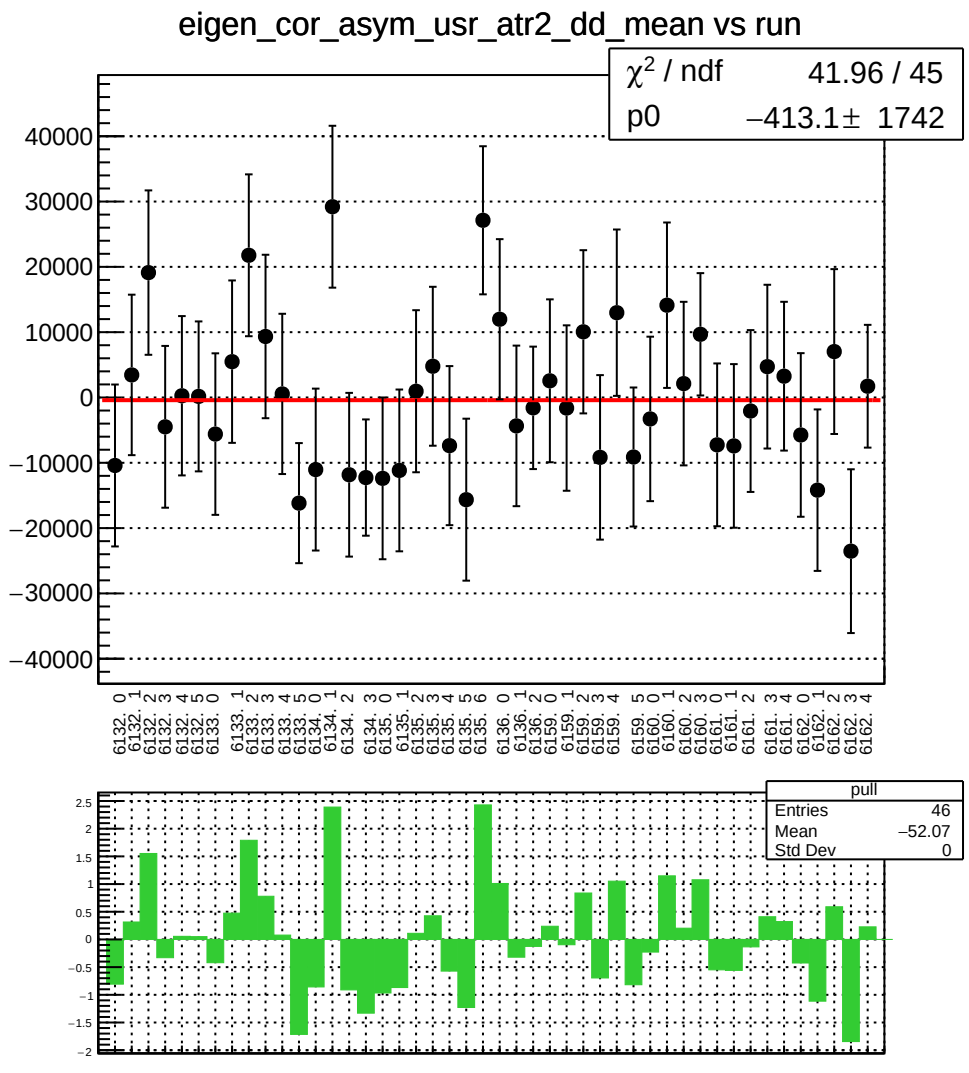
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 41.96 / 45
p0 −413.1± 1742
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
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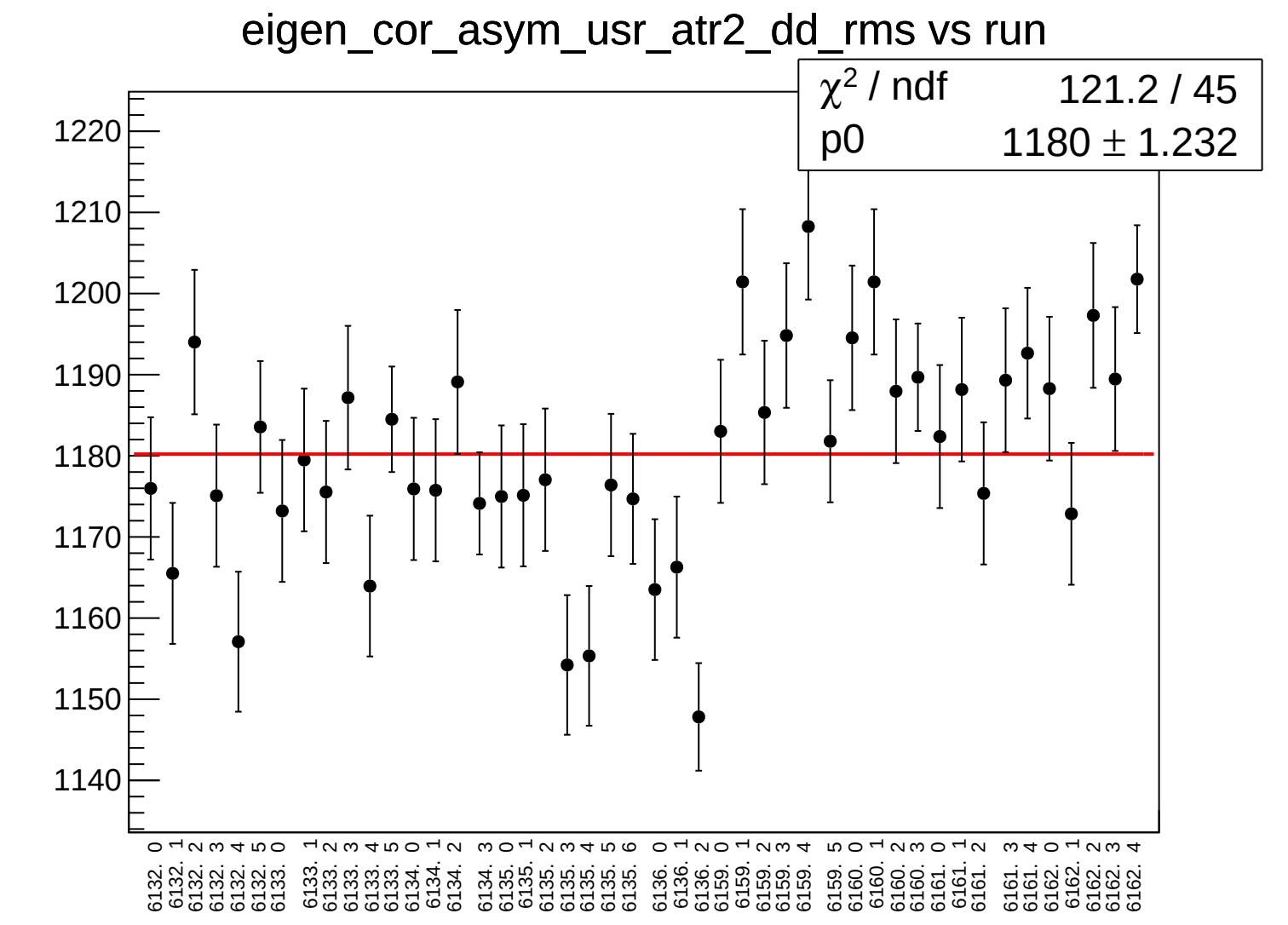
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −52.07
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.01429
Std Dev 0.955
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 121.2 / 45
p0 1180 ± 1.232
1220
1210
1200
1190
1180
1170
1160
1150
1140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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6133. 4
6133. 5
6134. 0
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
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6159. 4
6159. 5
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6160. 2
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6162. 0
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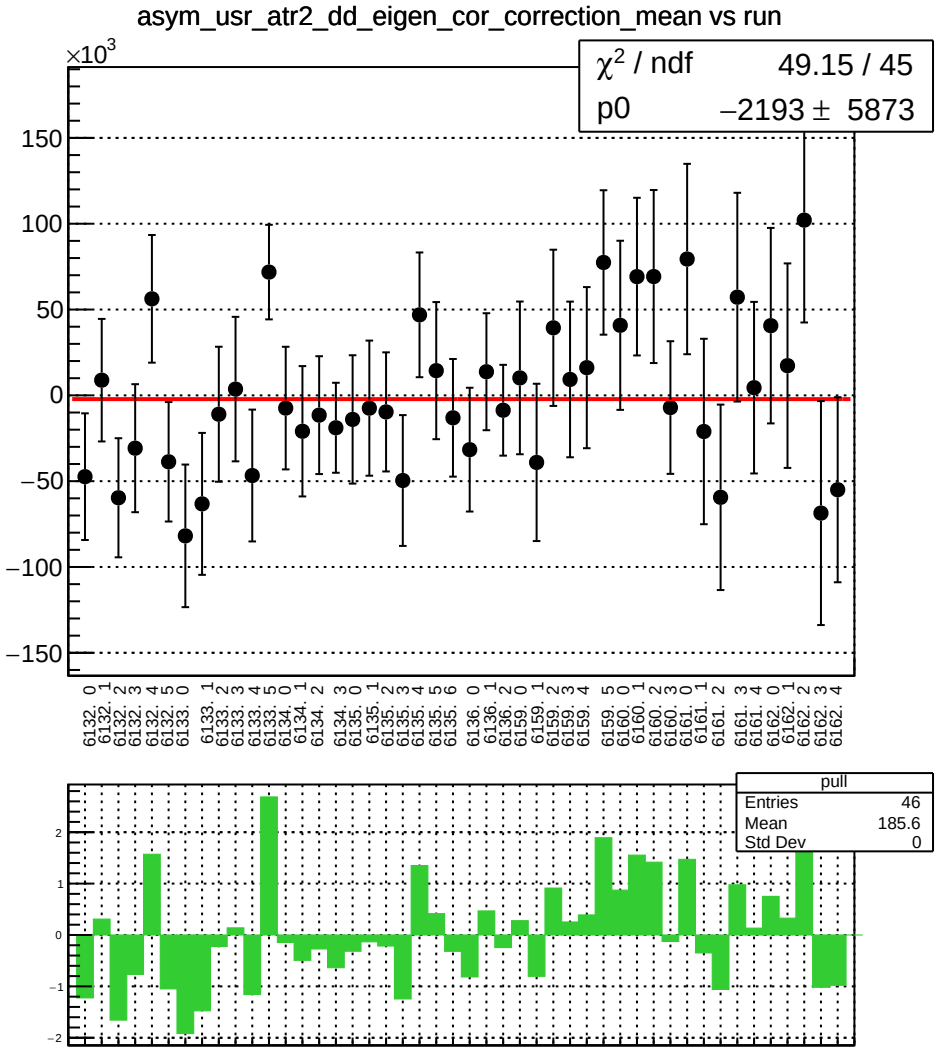
6162. 4


asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 49.15 / 45
p0 −2193 ± 5873
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
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6135. 4
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6135. 6
6136. 0
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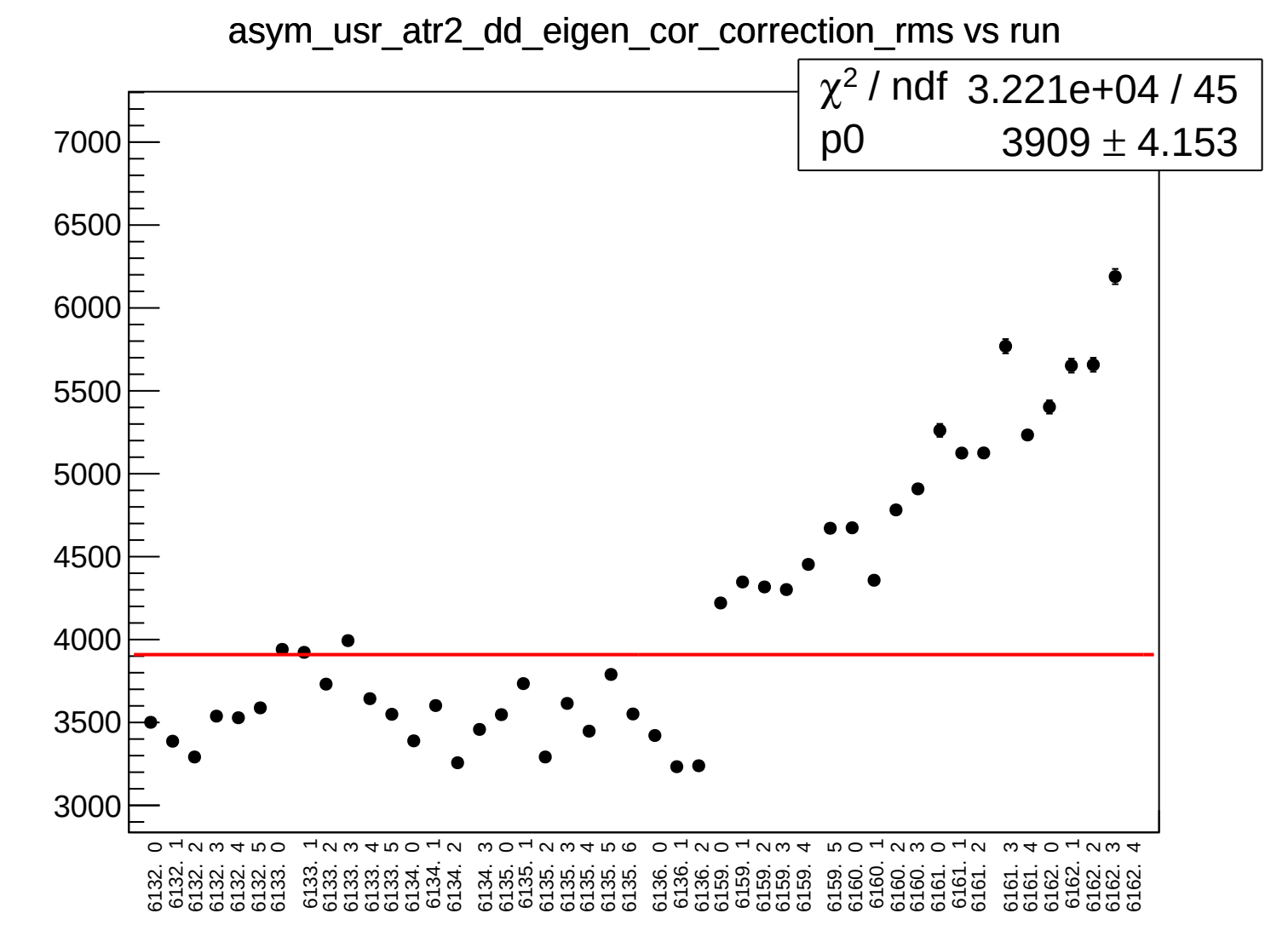
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 185.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02772
Std Dev 1.033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.221e+04 / 45
p0 3909 ± 4.153
7000
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6135. 6
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6160. 1
6160. 2
6160. 3
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6161. 2
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6162. 0
6162. 1
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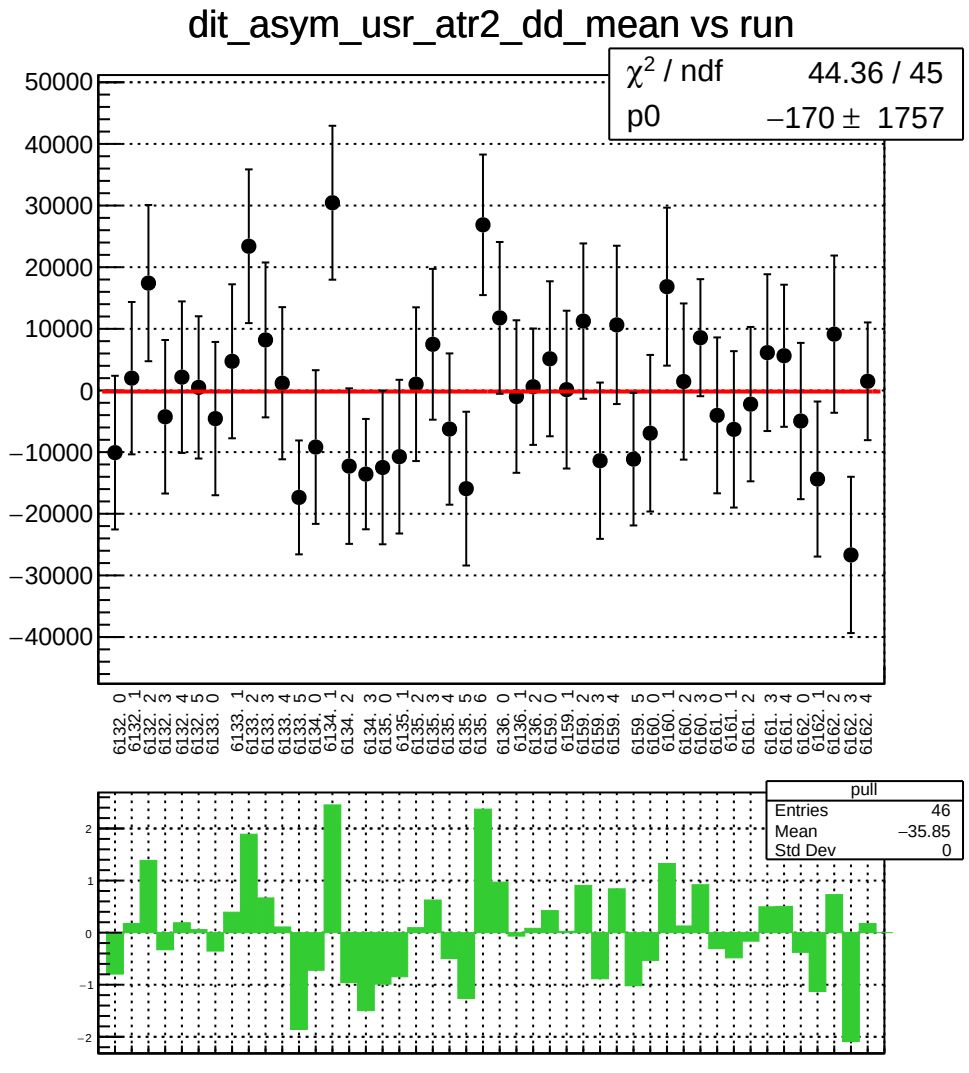
6162. 4


dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 44.36 / 45
p0 −170 ± 1757
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6134. 2
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6136. 0
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6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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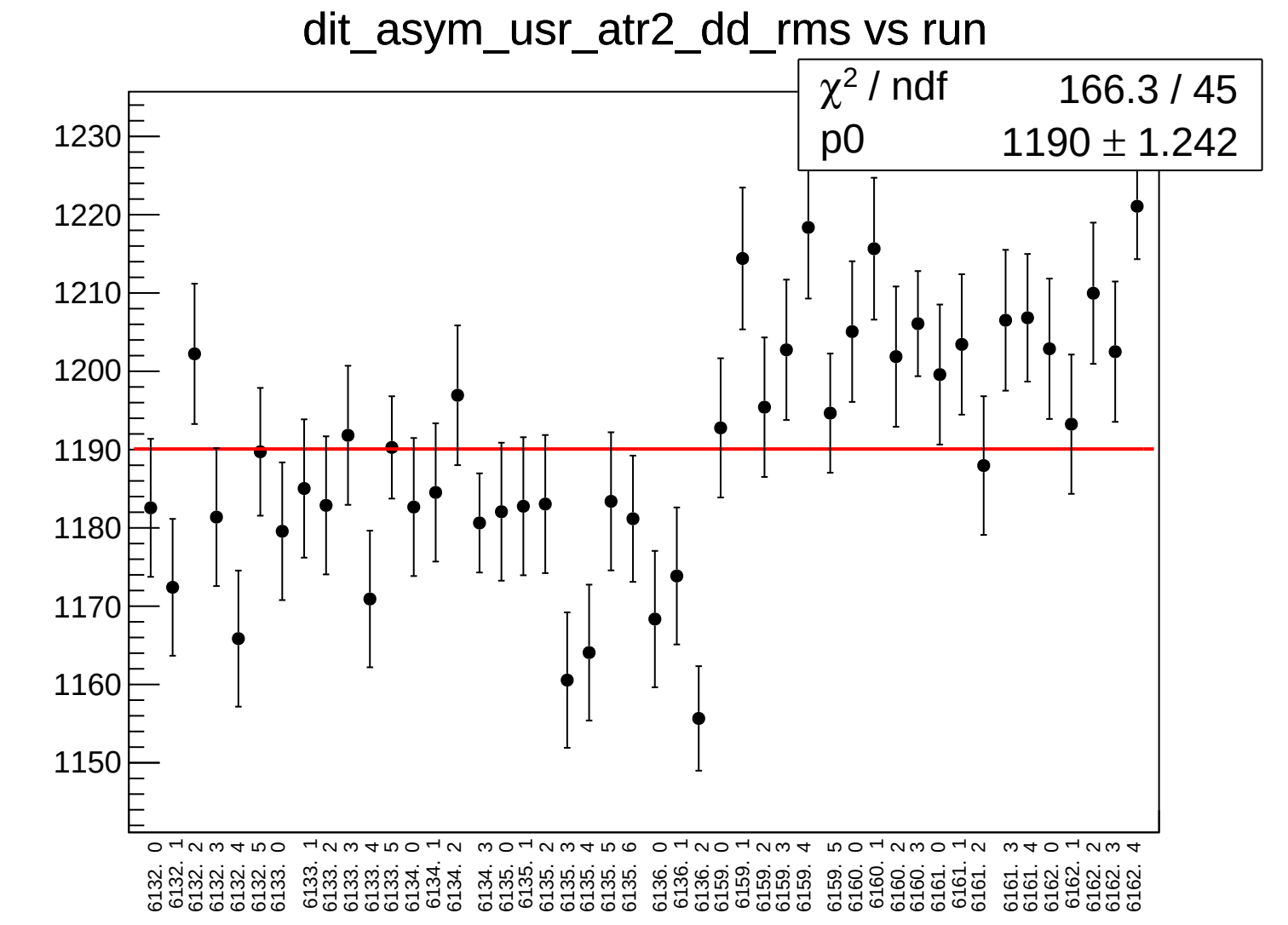
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −35.85
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.01694
Std Dev 0.9819
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 166.3 / 45
p0 1190 ± 1.242
1230
1220
1210
1200
1190
1180
1170
1160
1150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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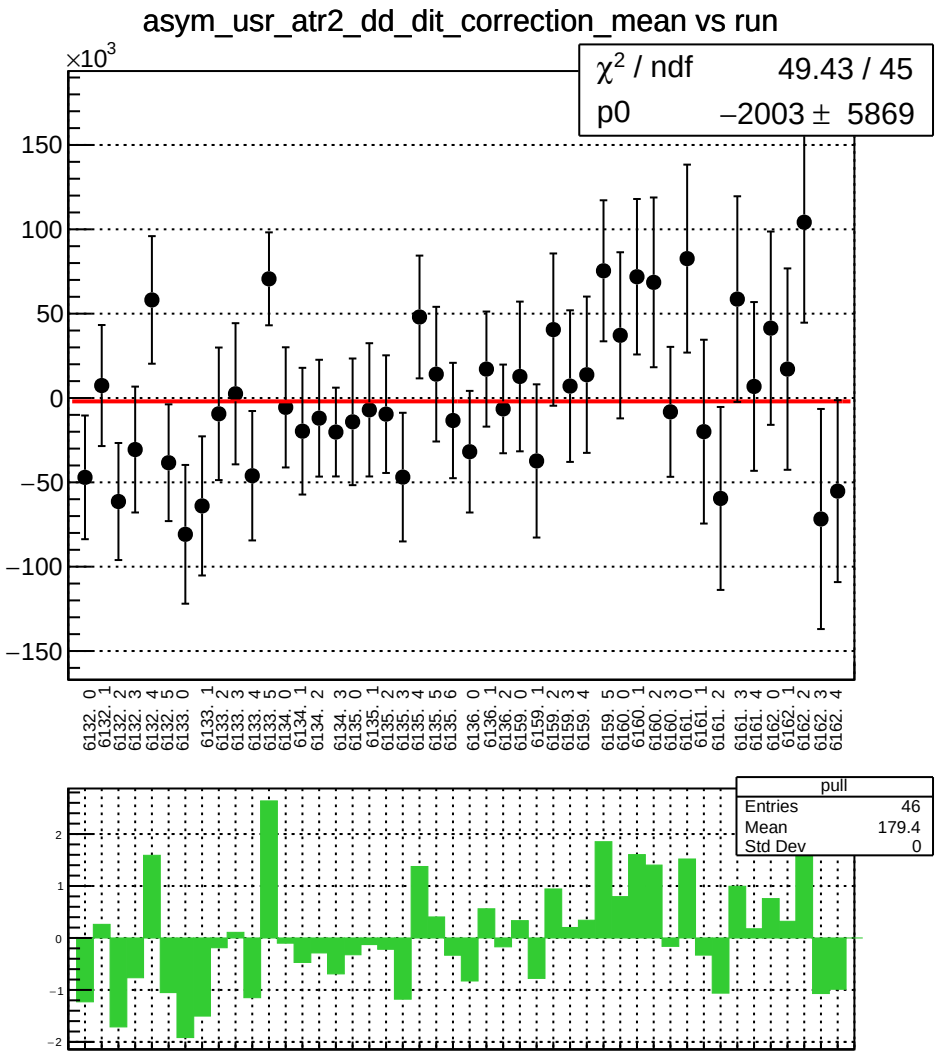
6162. 4


asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 49.43 / 45
p0 −2003 ± 5869
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
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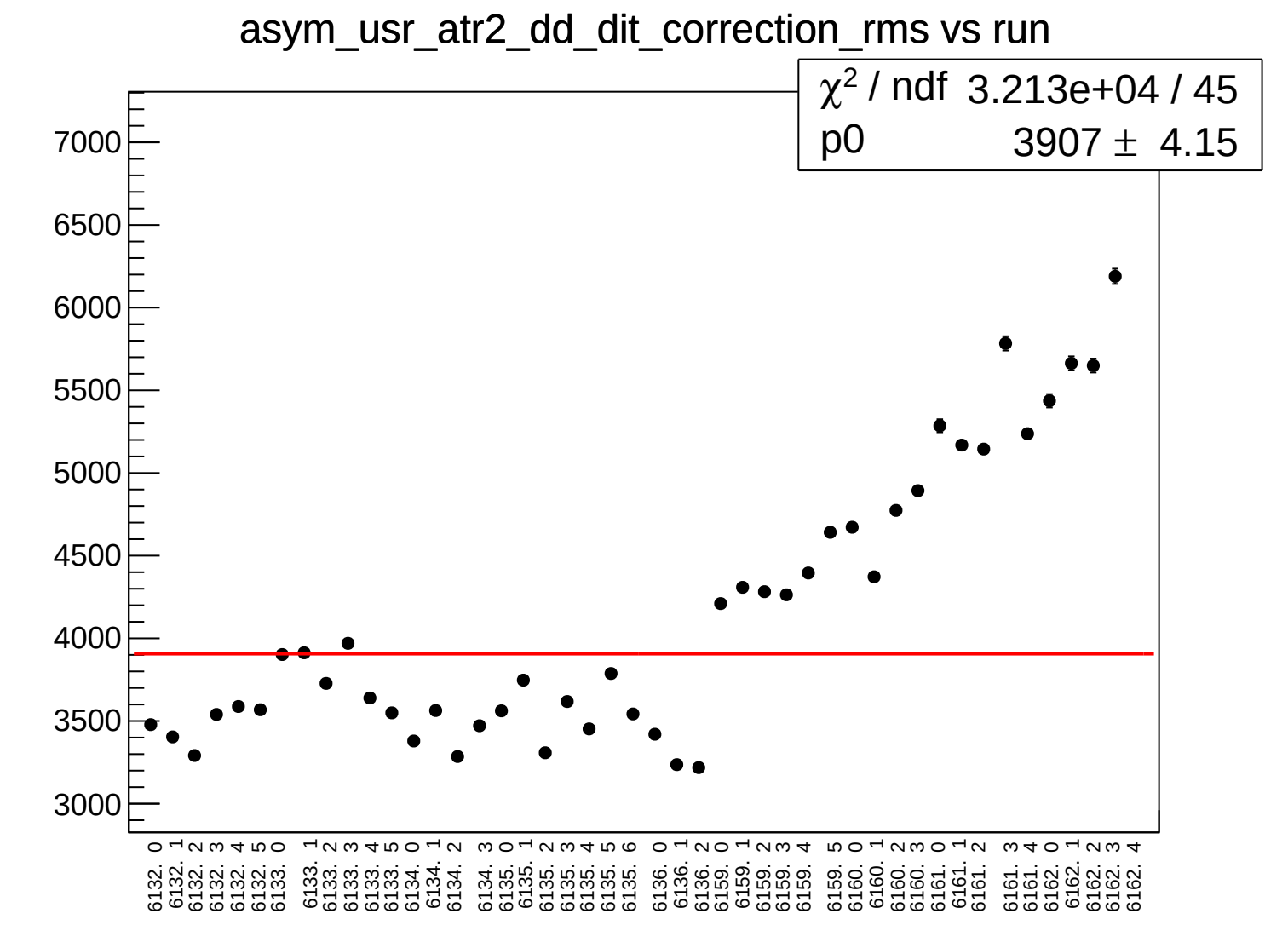
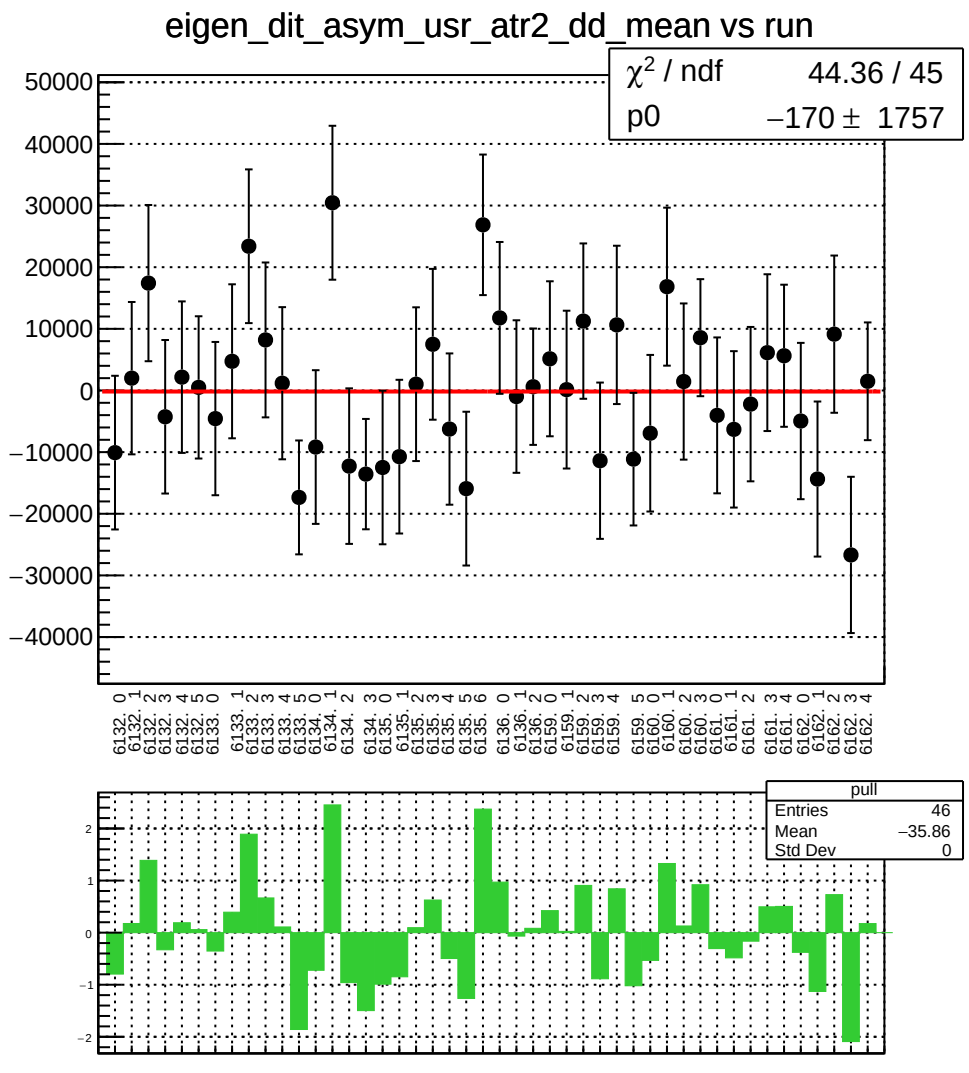
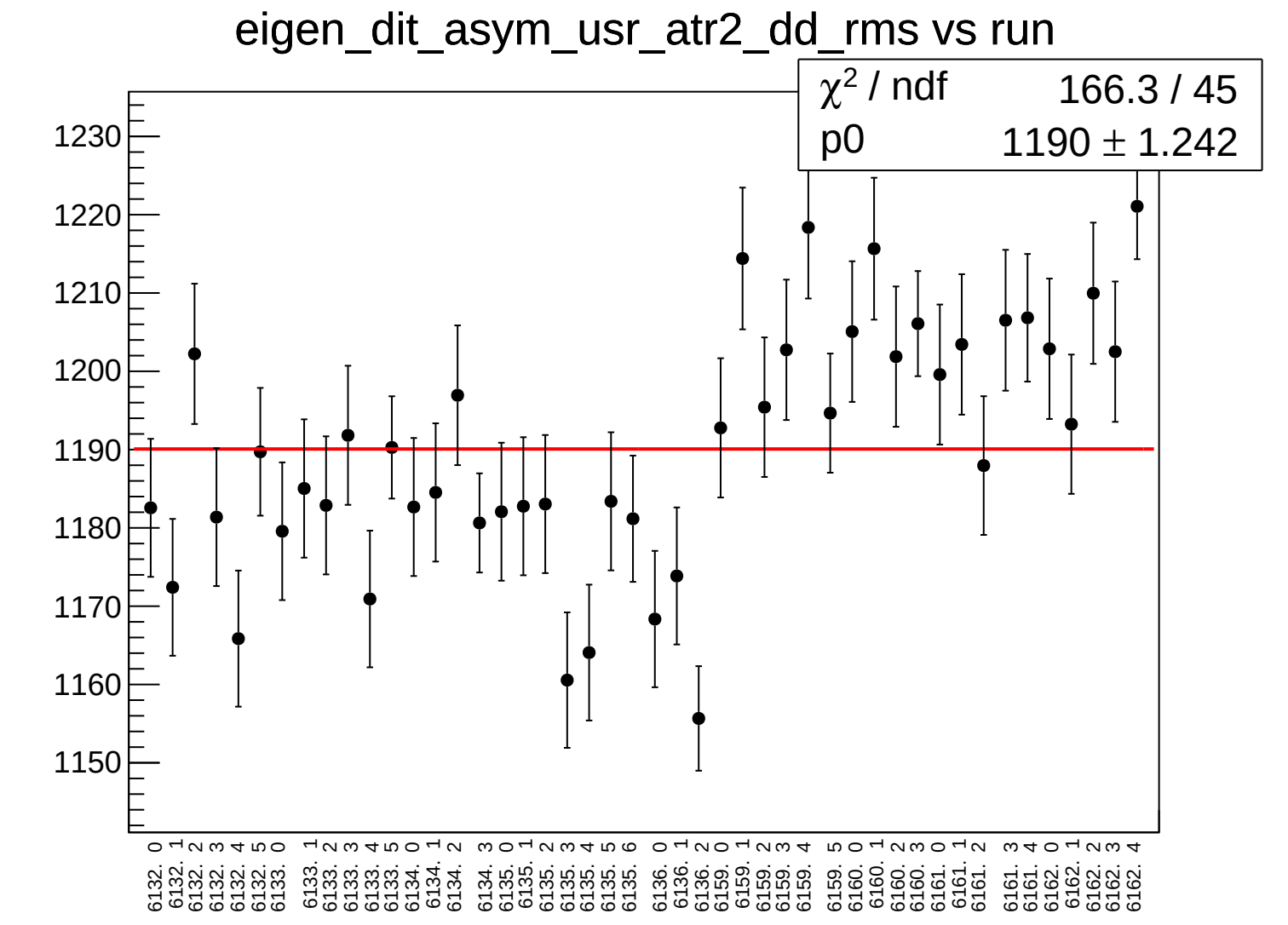
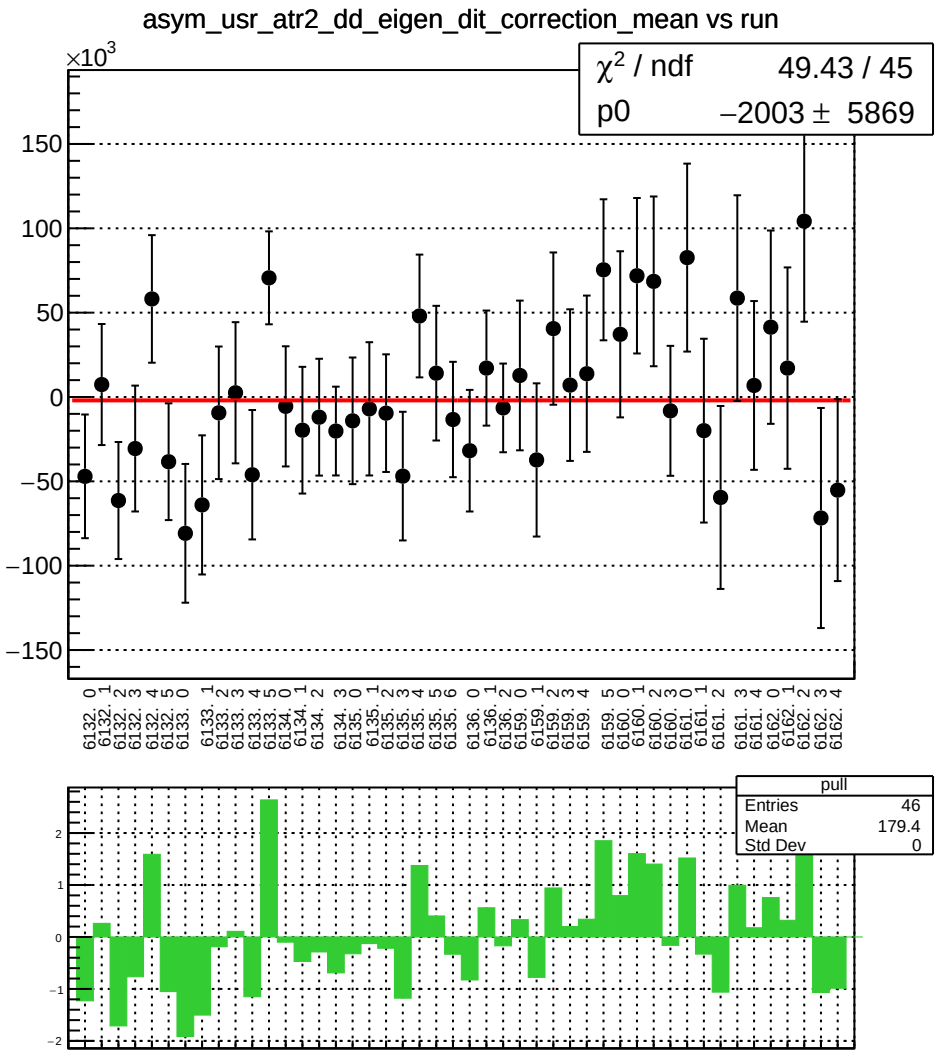
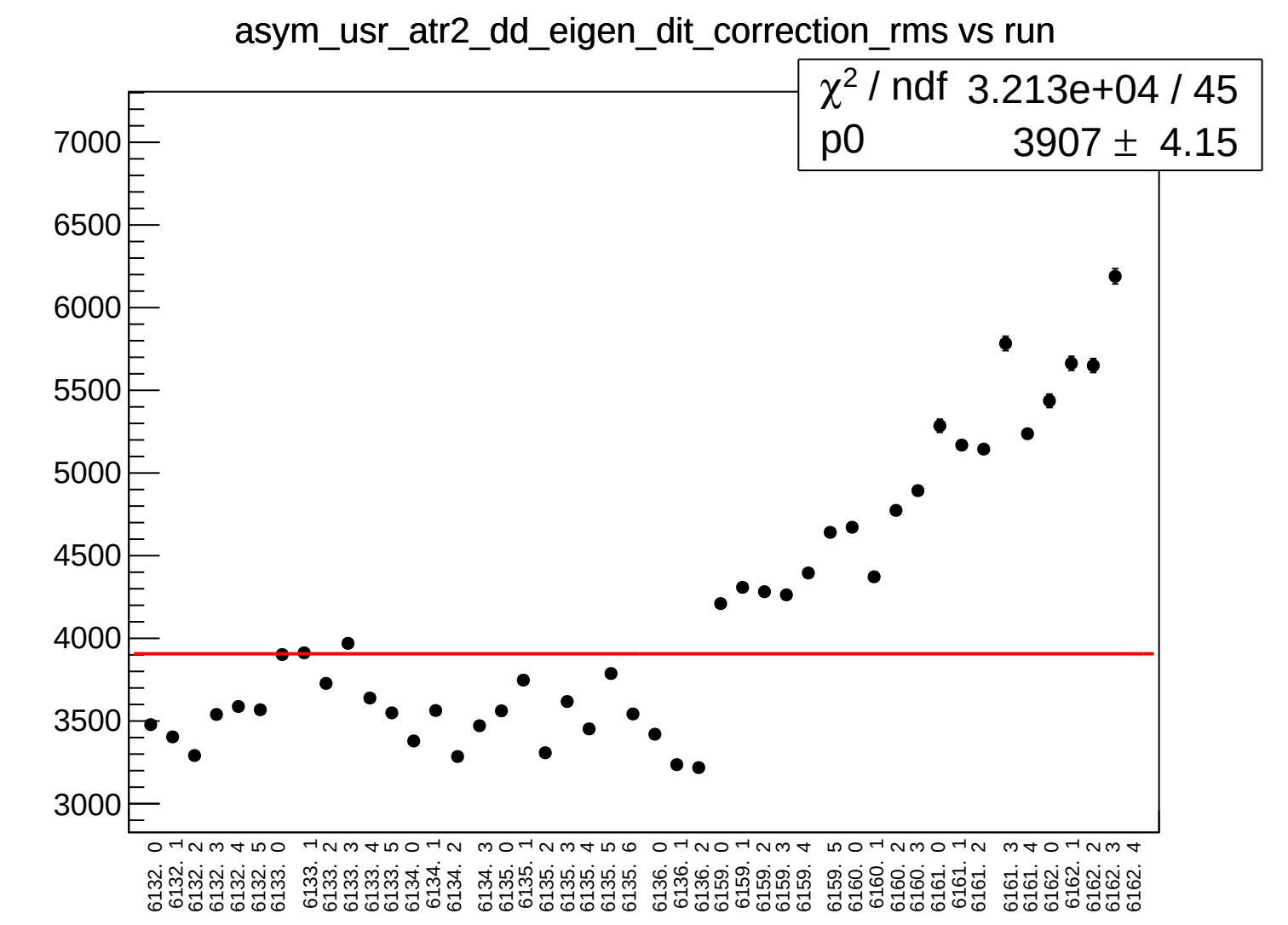
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 179.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02915
Std Dev 1.036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

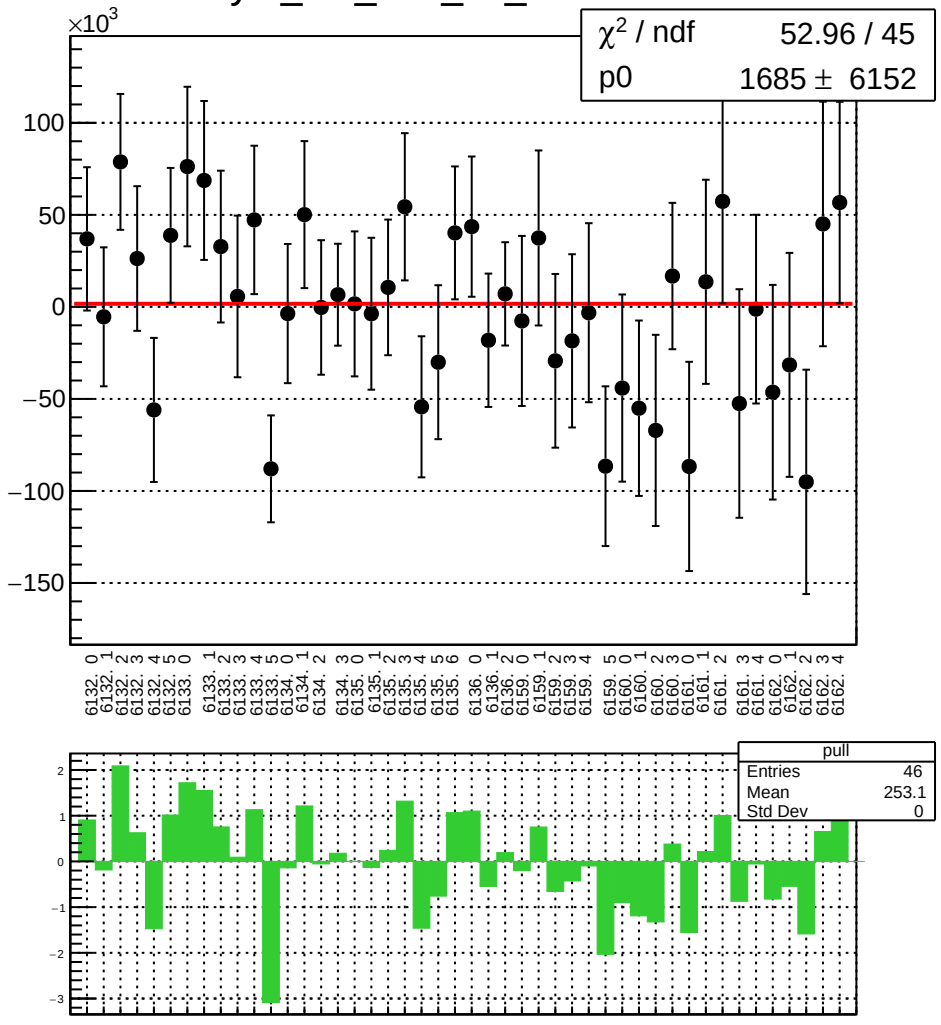

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 3.213e+04 / 45
p0 3907 ± 4.15
7000
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

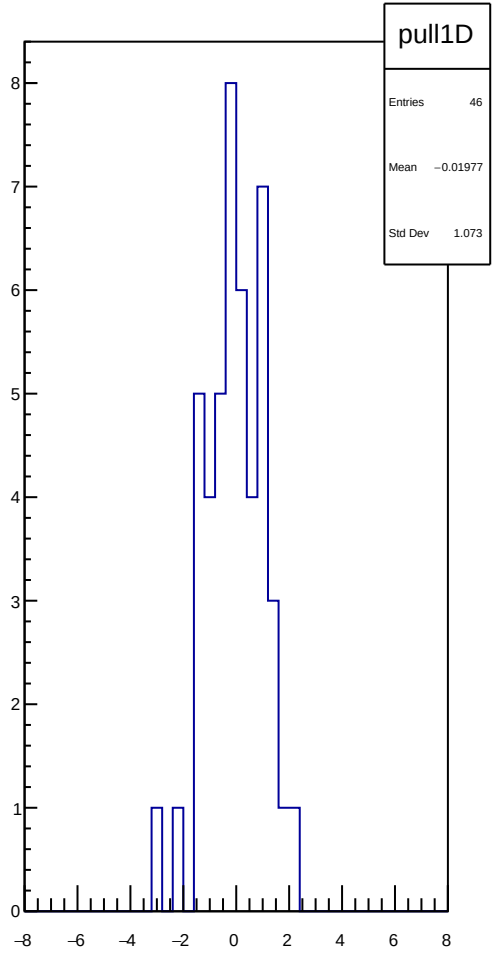

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 44.36 / 45
p0 −170 ± 1757
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −35.86
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.01694
Std Dev 0.9819
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

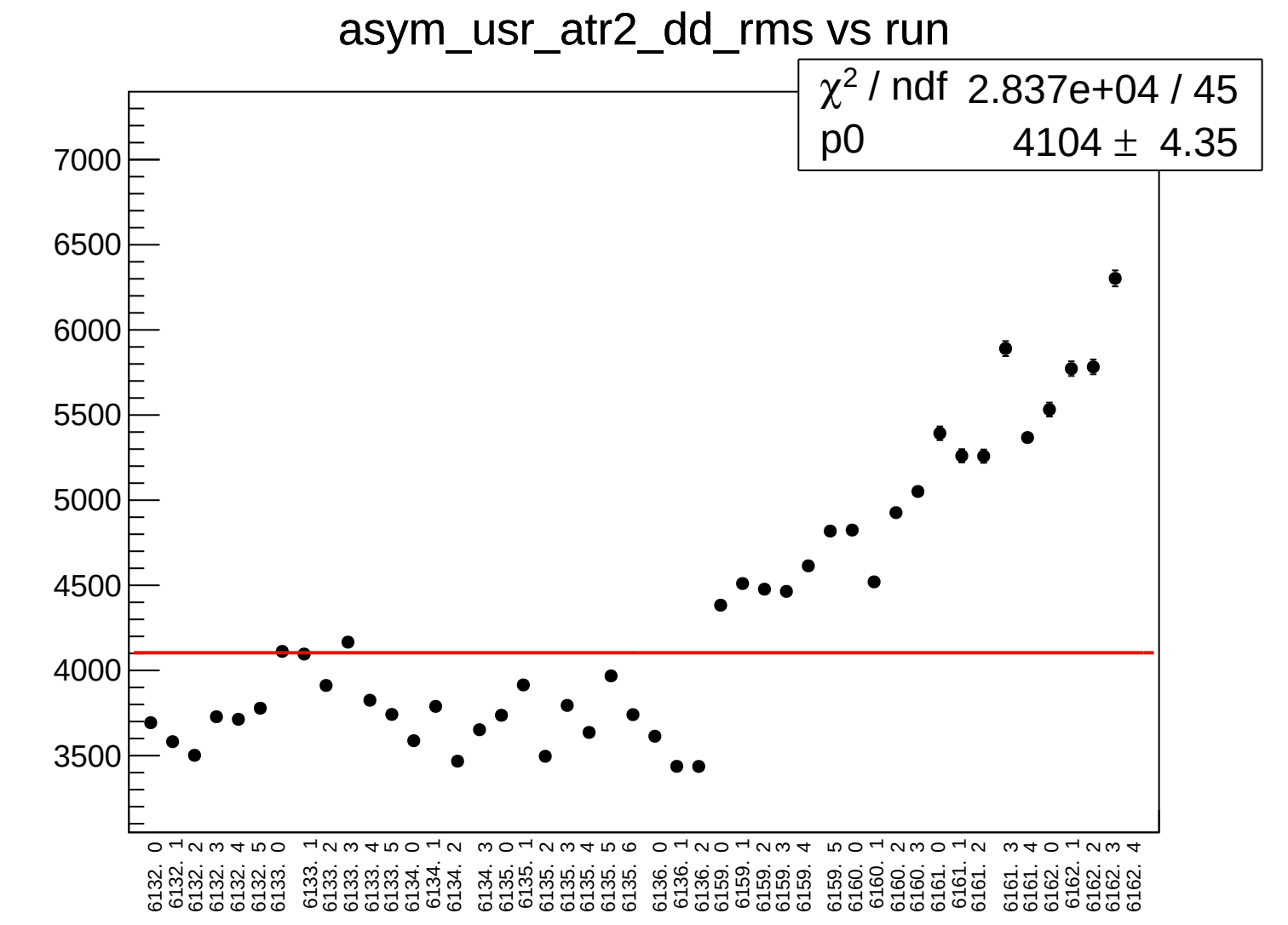

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 166.3 / 45
p0 1190 ± 1.242
1230
1220
1210
1200
1190
1180
1170
1160
1150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

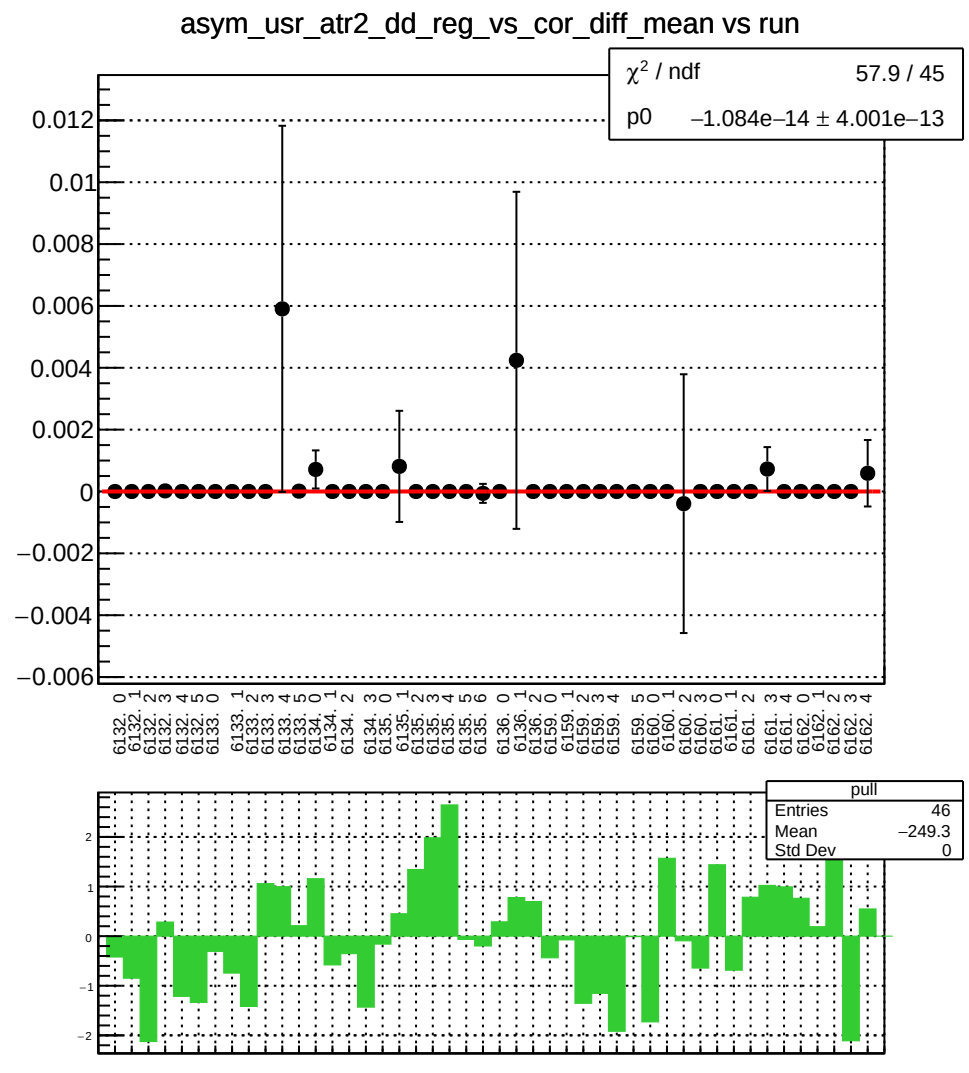

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 49.43 / 45
p0 −2003 ± 5869
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 179.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02915
Std Dev 1.036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

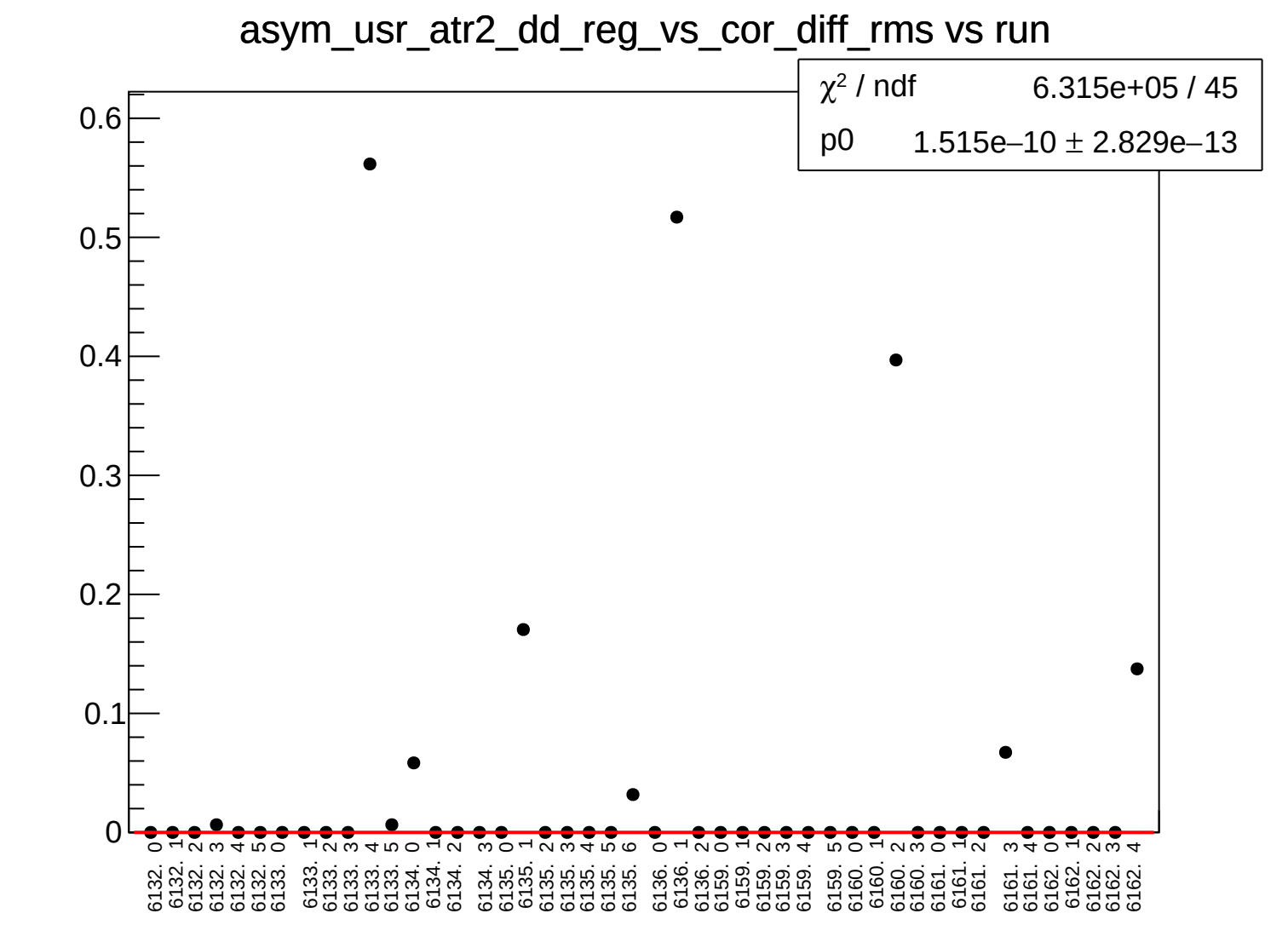

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.213e+04 / 45
p0 3907 ± 4.15
7000
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

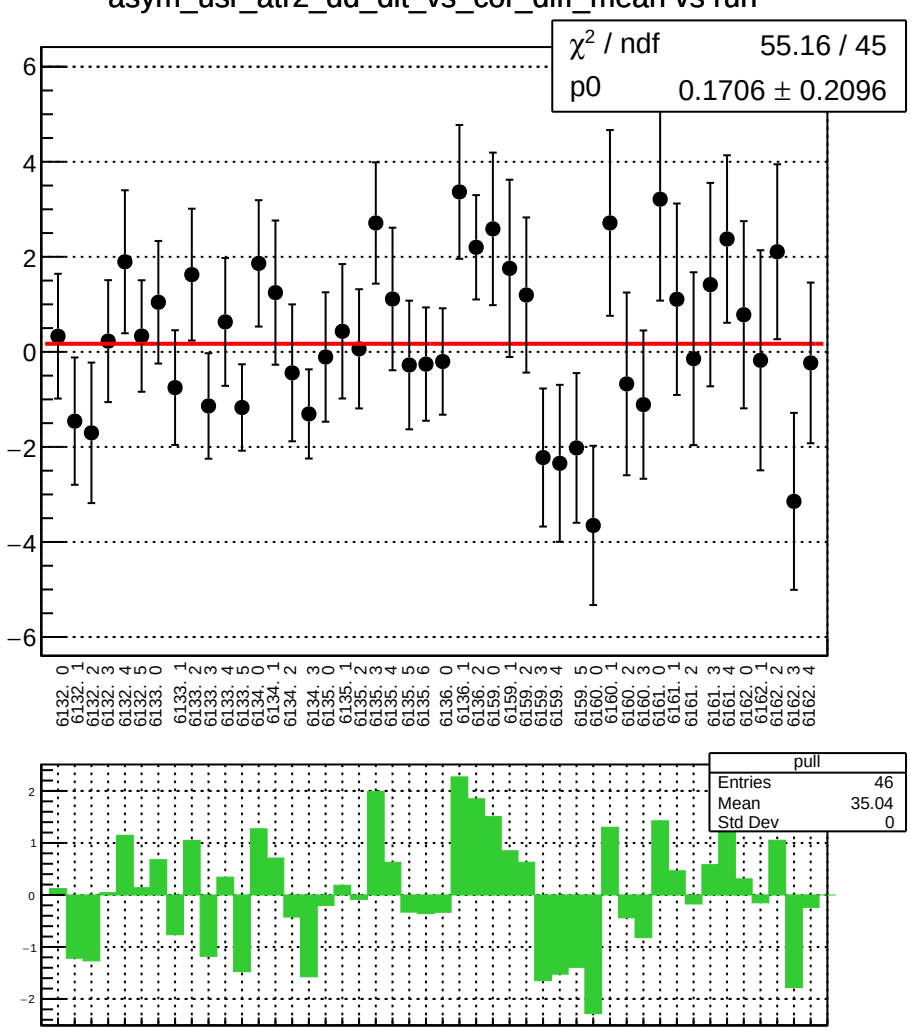

asym_usr_atr2_dd_mean vs run
×10^3
χ^2 / ndf 52.96 / 45
p0 1685 ± 6152
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 253.1
Std Dev 0
2
1
0
−1
−2
−3

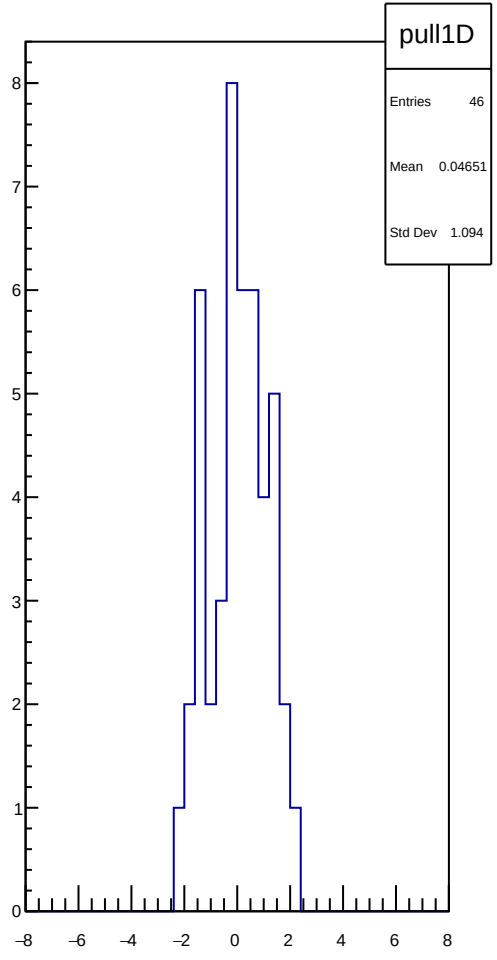

pull1D
Entries 46
Mean −0.01977
Std Dev 1.073
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

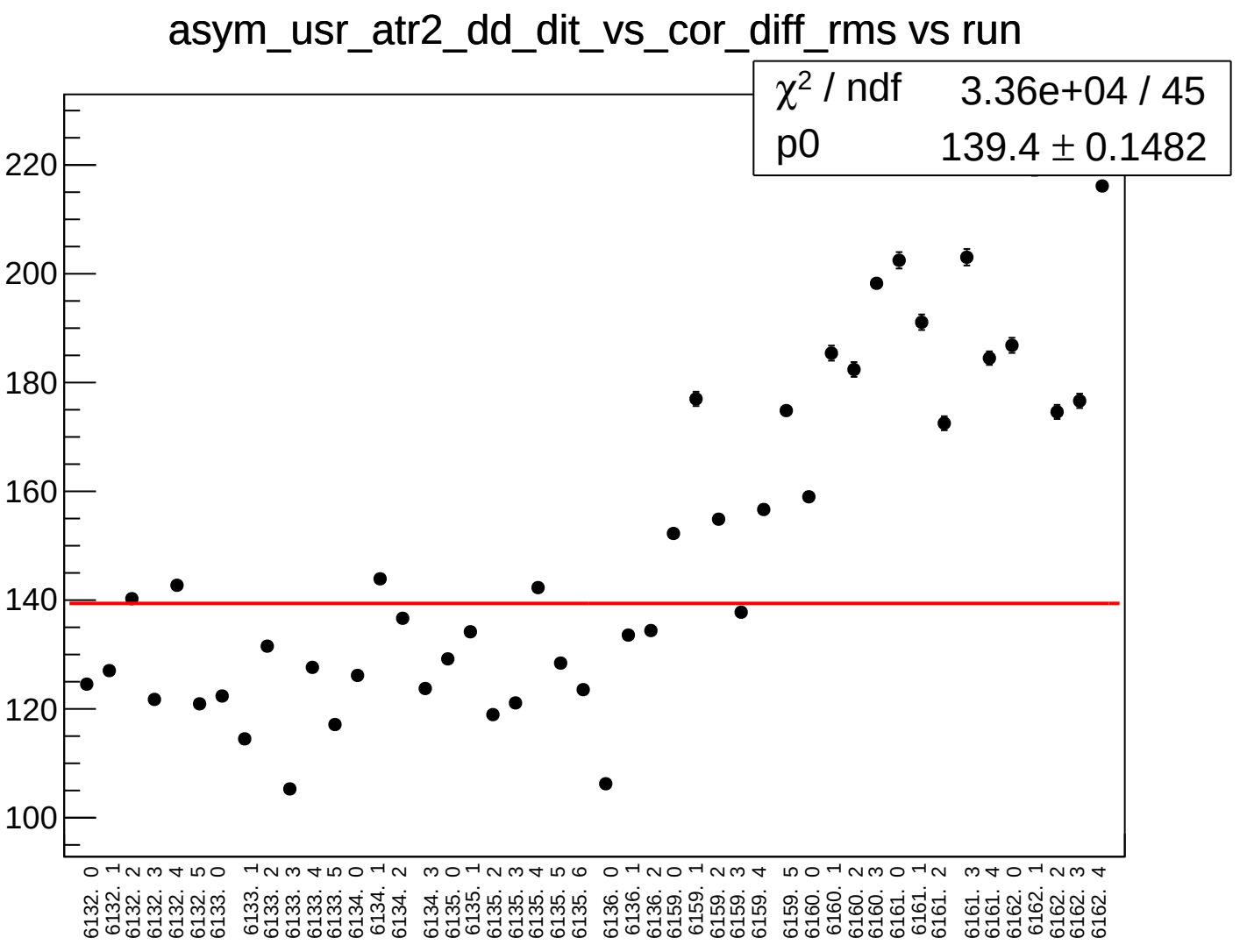

asym_usr_atr2_dd_rms vs run
χ² / ndf 2.837e+04 / 45
p0 4104 ± 4.35
7000
6500
6000
5500
5000
4500
4000
3500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

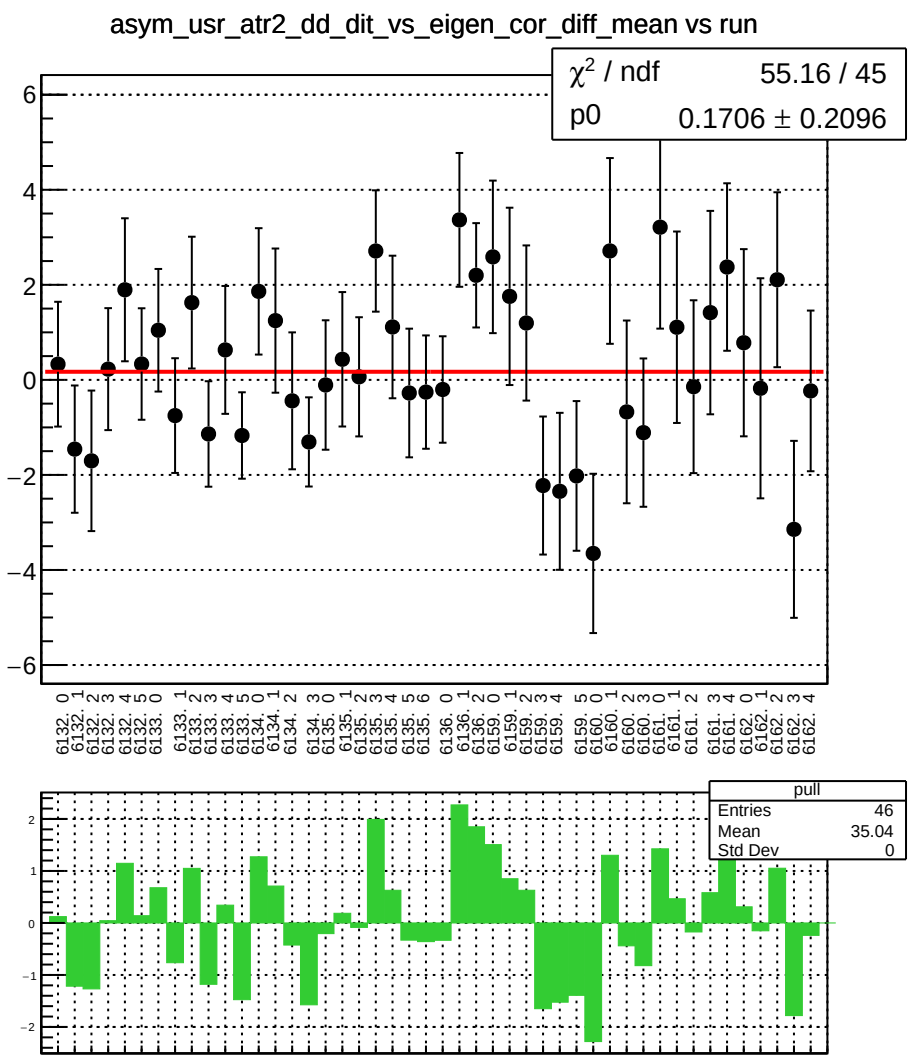

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 57.9 / 45
p0 −1.084e−14 ± 4.001e−13
0.012
0.01
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −249.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.01146
Std Dev 1.122
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

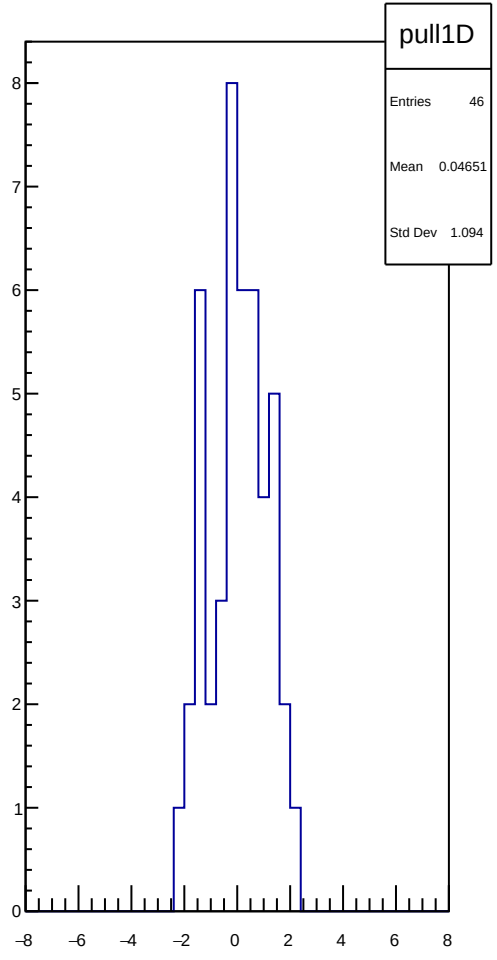

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.315e+05 / 45
p0 1.515e−10 ± 2.829e−13
0.6
0.5
0.4
0.3
0.2
0.1
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

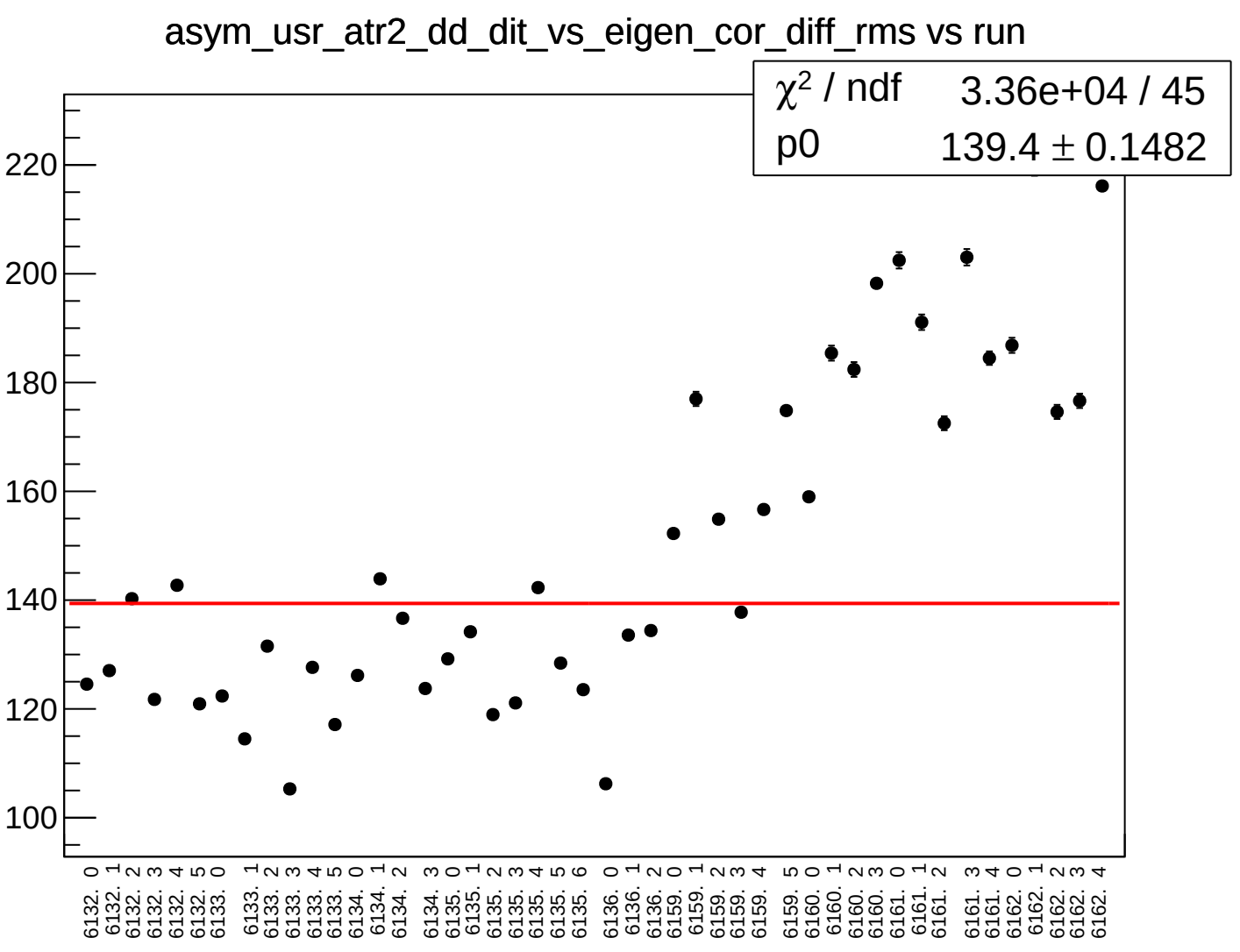

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 55.16 / 45
p0 0.1706 ± 0.2096
pull
Entries 46
Mean 35.04
Std Dev 0

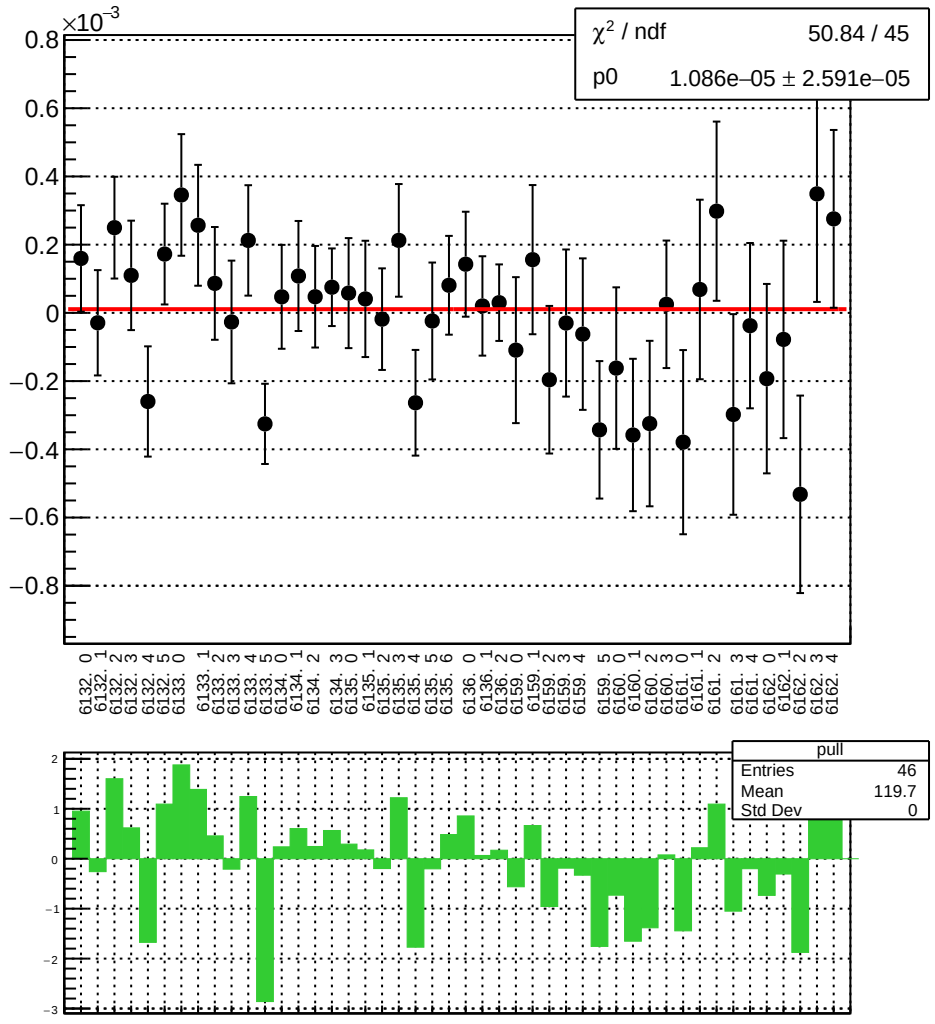

pull1D
Entries 46
Mean 0.04651
Std Dev 1.094

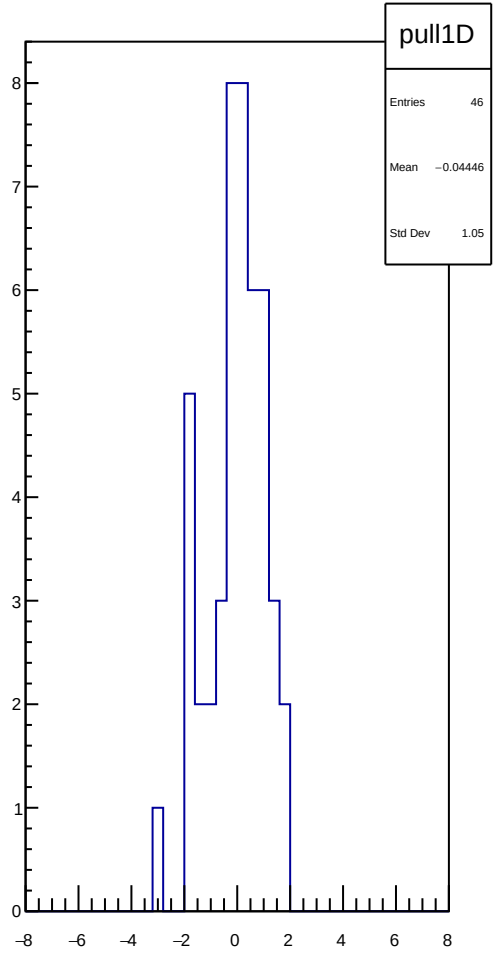

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.36e+04 / 45
p0 139.4 ± 0.1482
220
200
180
160
140
120
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

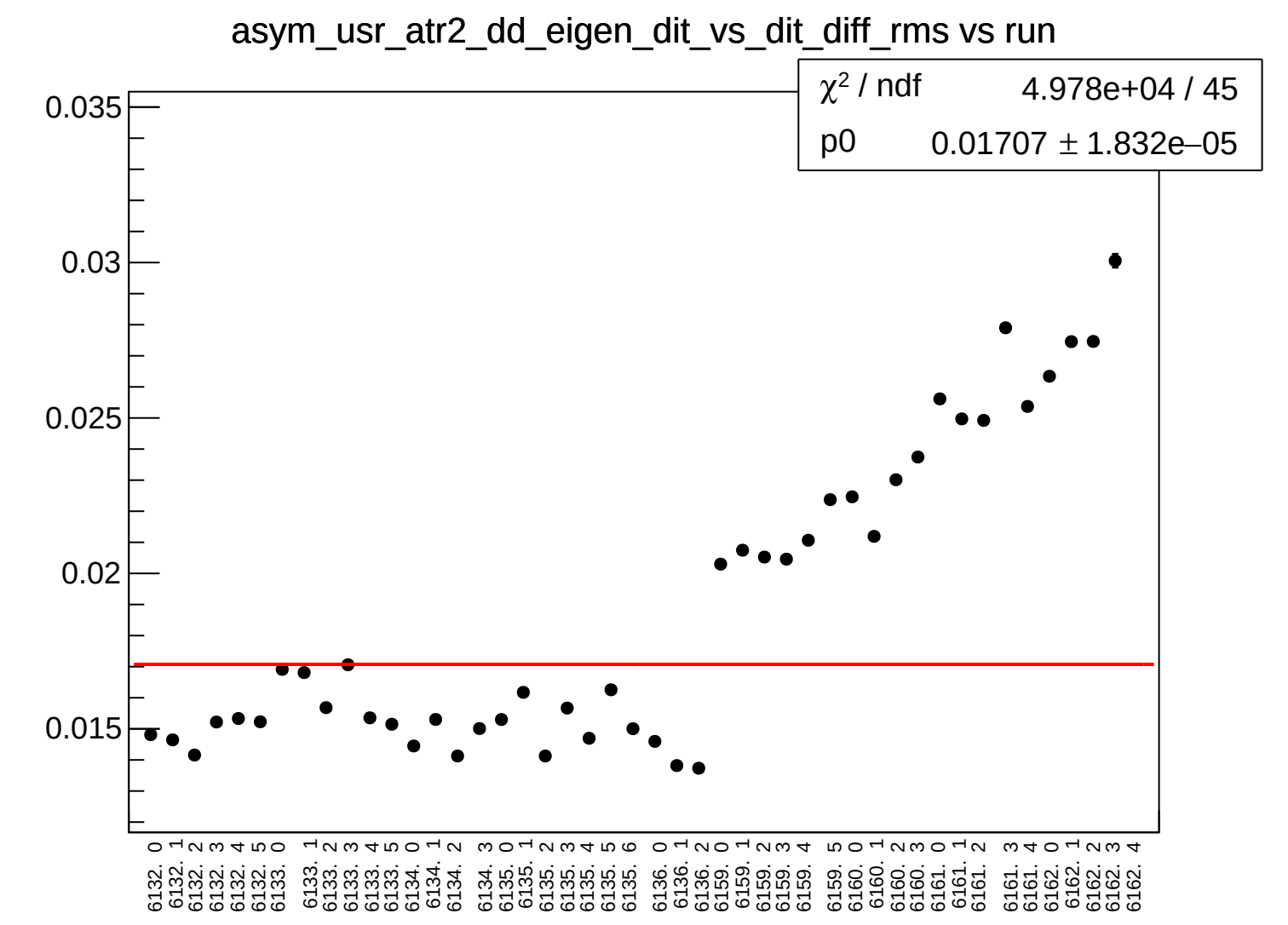

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 55.16 / 45
p0 0.1706 ± 0.2096
pull
Entries 46
Mean 35.04
Std Dev 0


pull1D
Entries 46
Mean 0.04651
Std Dev 1.094


asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.36e+04 / 45
p0 139.4 ± 0.1482
220
200
180
160
140
120
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 50.84 / 45
p0 1.086e−05 ± 2.591e−05
pull
Entries 46
Mean 119.7
Std Dev 0


pull1D
Entries 46
Mean −0.04446
Std Dev 1.05


asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.978e+04 / 45
p0 0.01707 ± 1.832e–05
0.035
0.03
0.025
0.02
0.015
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6135. 2
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6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
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6159. 1
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6160. 0
6160. 1
6160. 2
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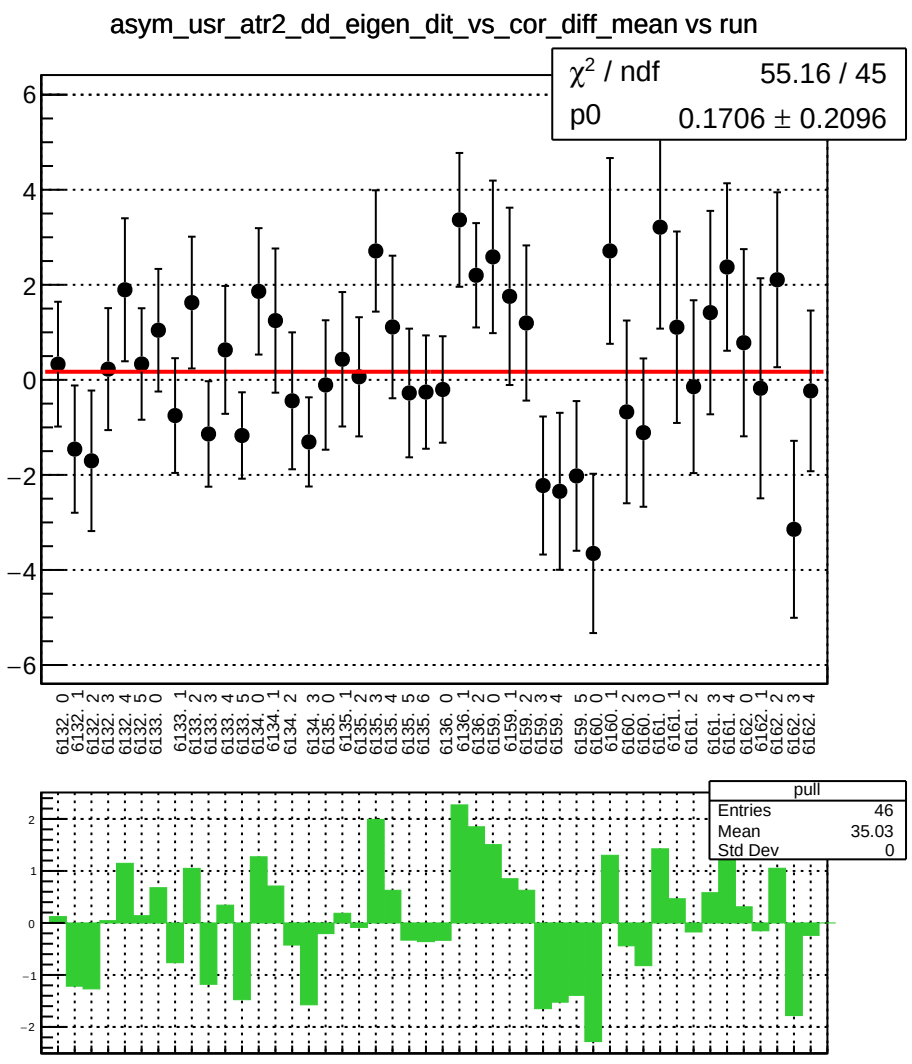
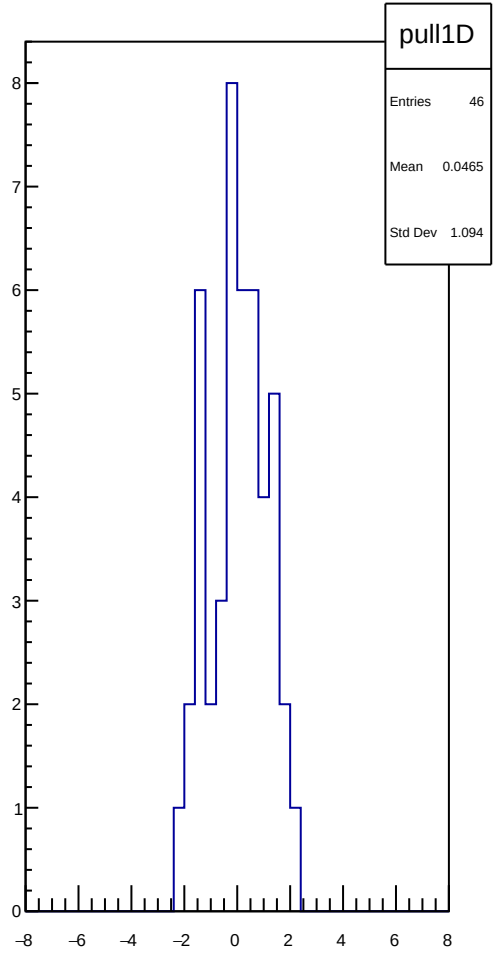
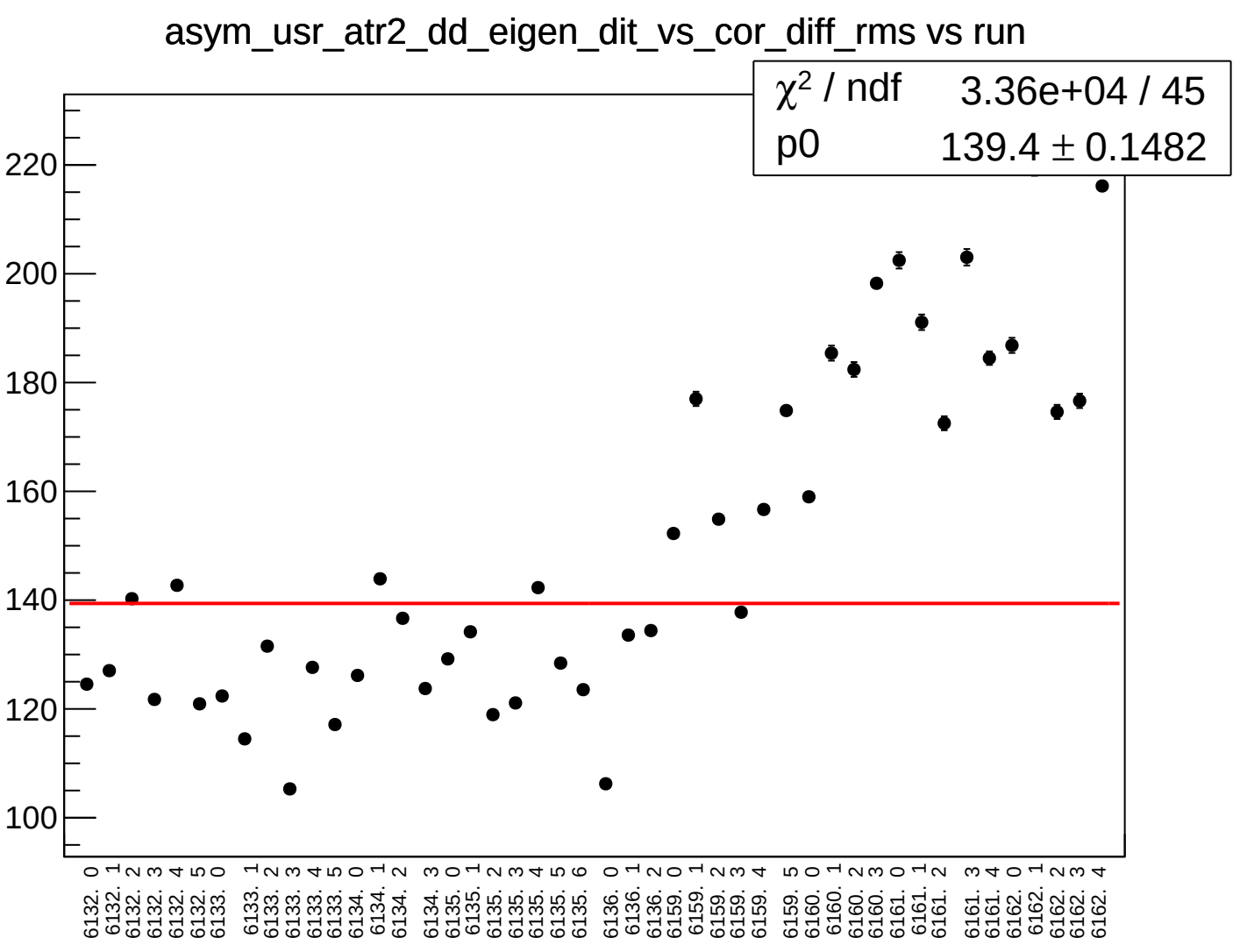
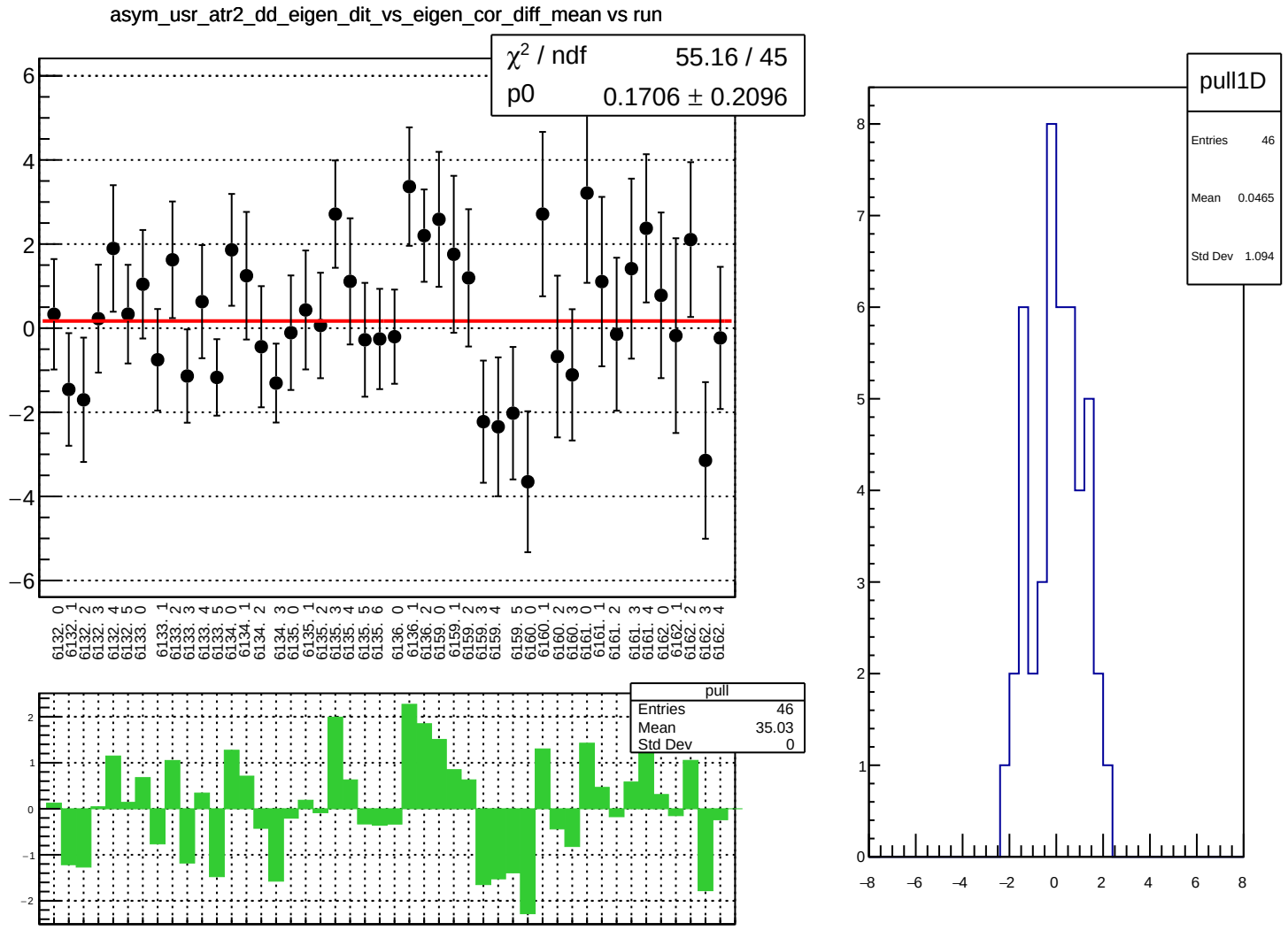
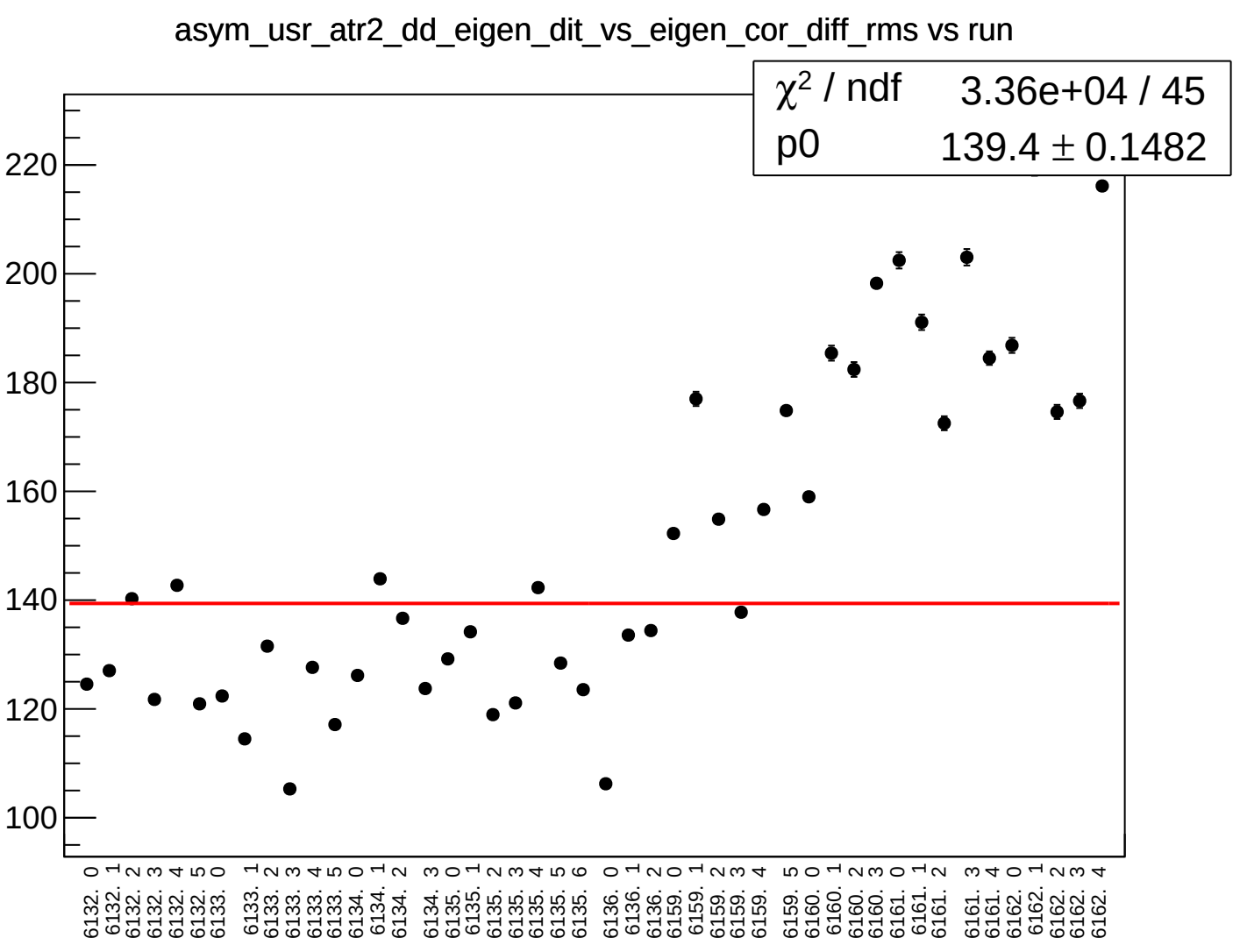
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

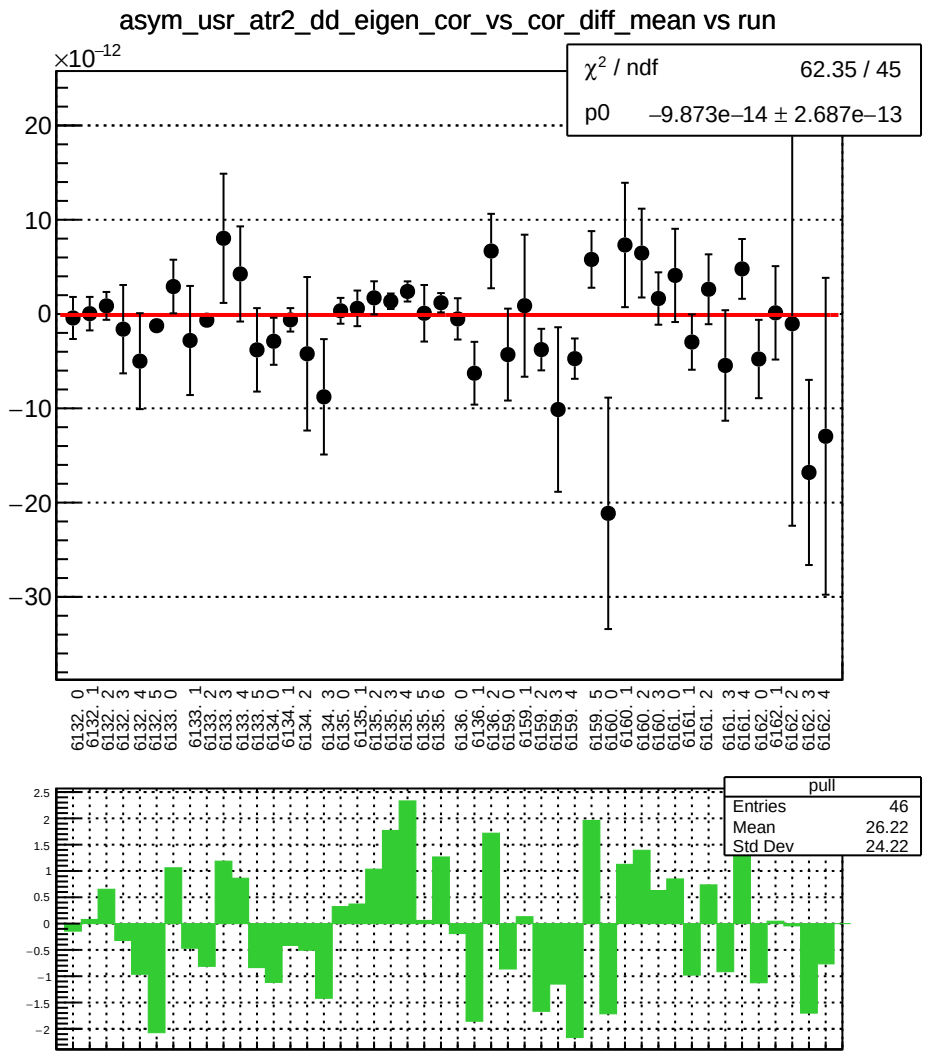

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 55.16 / 45
p0 0.1706 ± 0.2096
pull
Entries 46
Mean 35.03
Std Dev 0

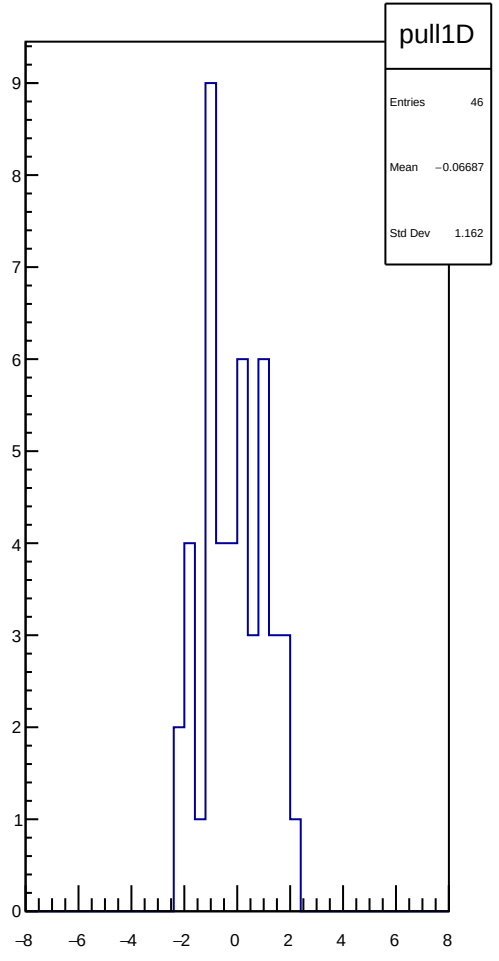

pull1D
Entries 46
Mean 0.0465
Std Dev 1.094

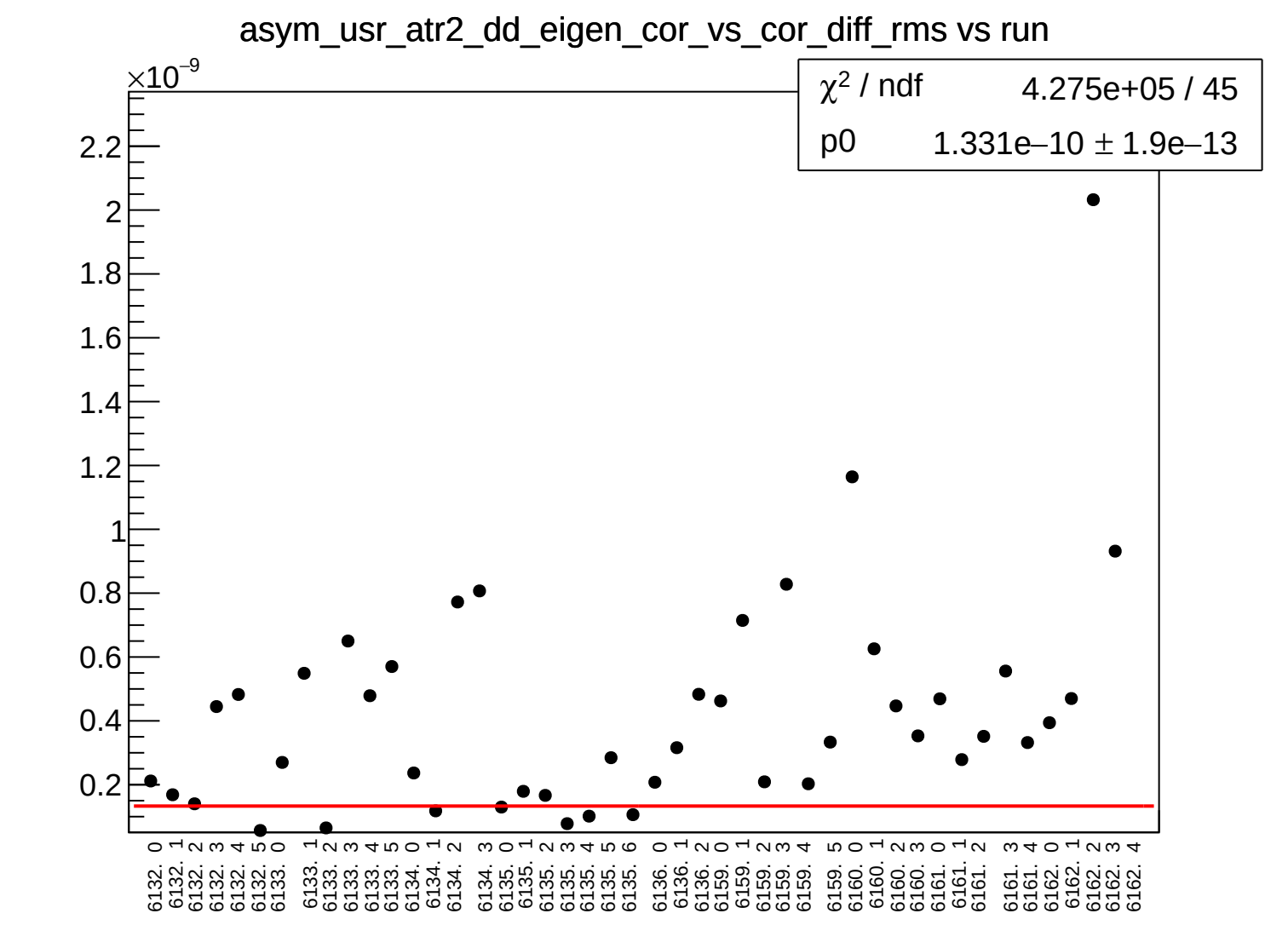

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.36e+04 / 45
p0 139.4 ± 0.1482
220
200
180
160
140
120
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

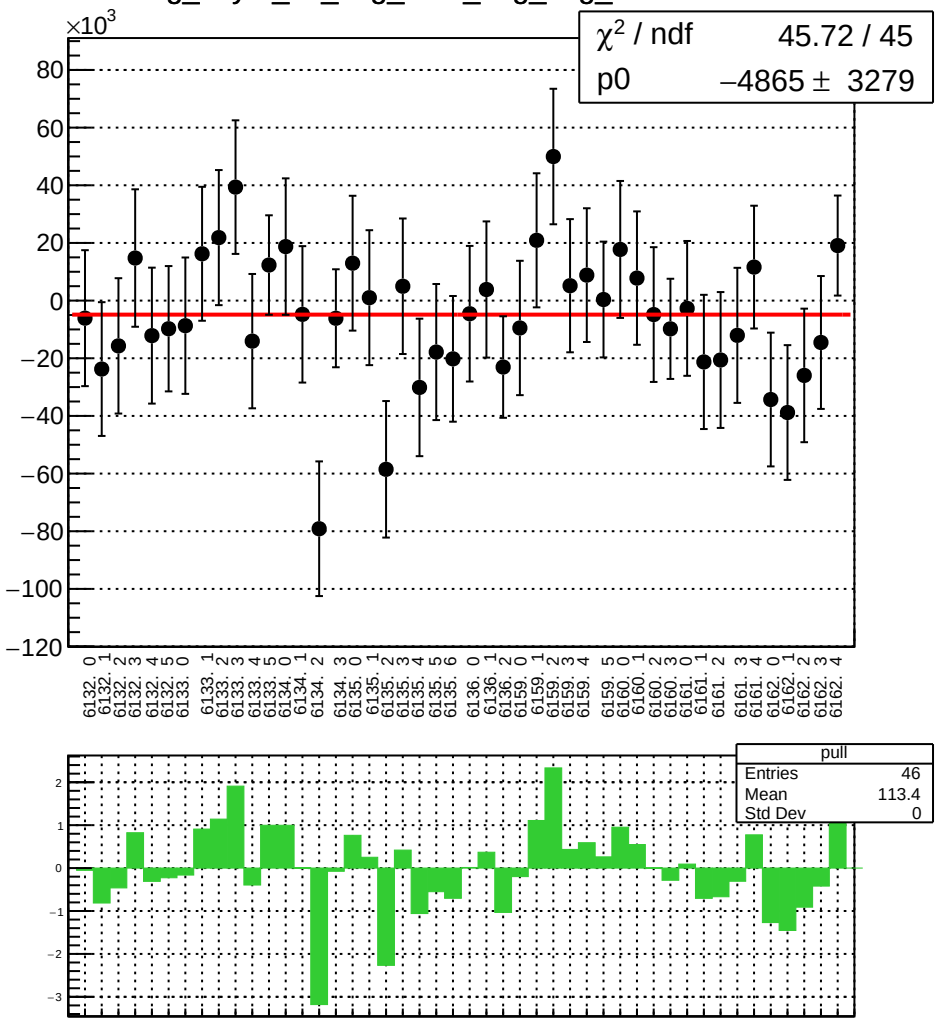

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 55.16 / 45
p0 0.1706 ± 0.2096
pull
Entries 46
Mean 35.03
Std Dev 0
pull1D
Entries 46
Mean 0.0465
Std Dev 1.094

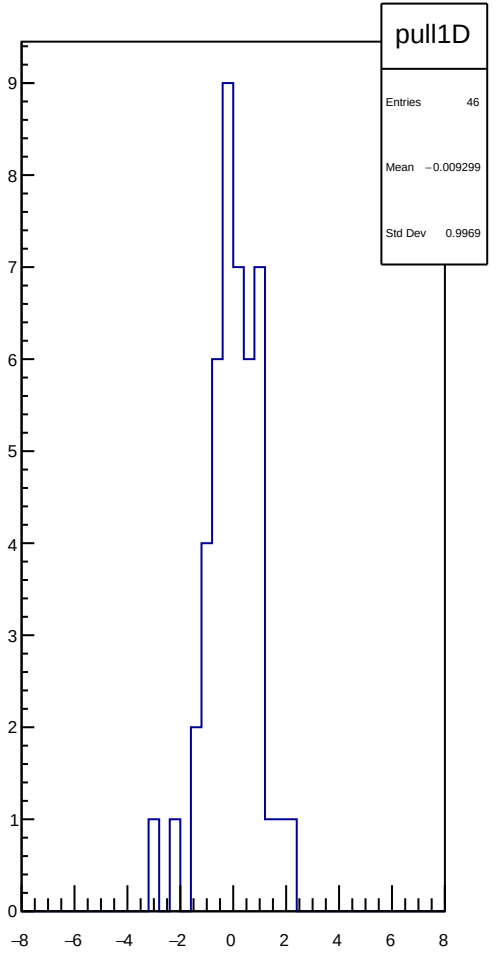

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.36e+04 / 45
p0 139.4 ± 0.1482
220
200
180
160
140
120
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

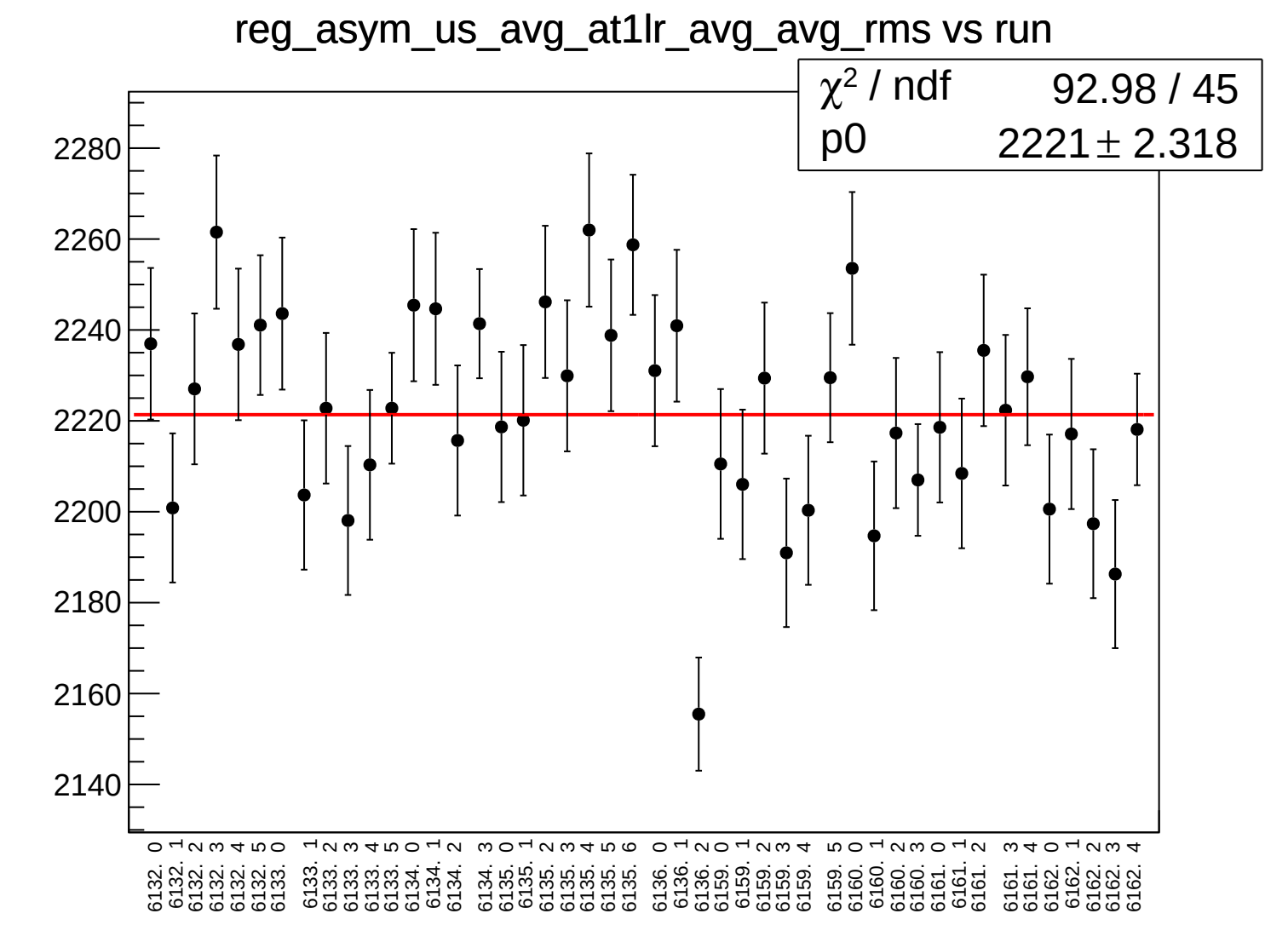

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 62.35 / 45
p0 −9.873e−14 ± 2.687e−13
pull
Entries 46
Mean 26.22
Std Dev 24.22

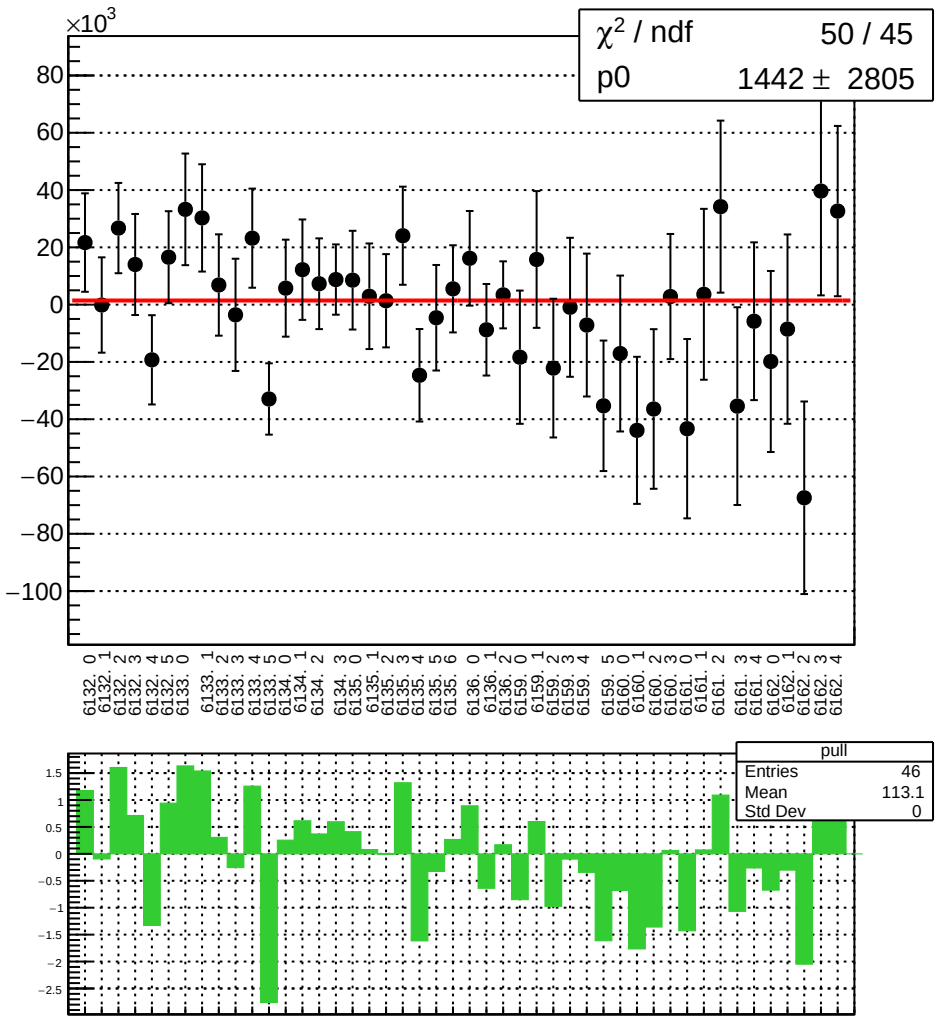

pull1D
Entries 46
Mean −0.06687
Std Dev 1.162

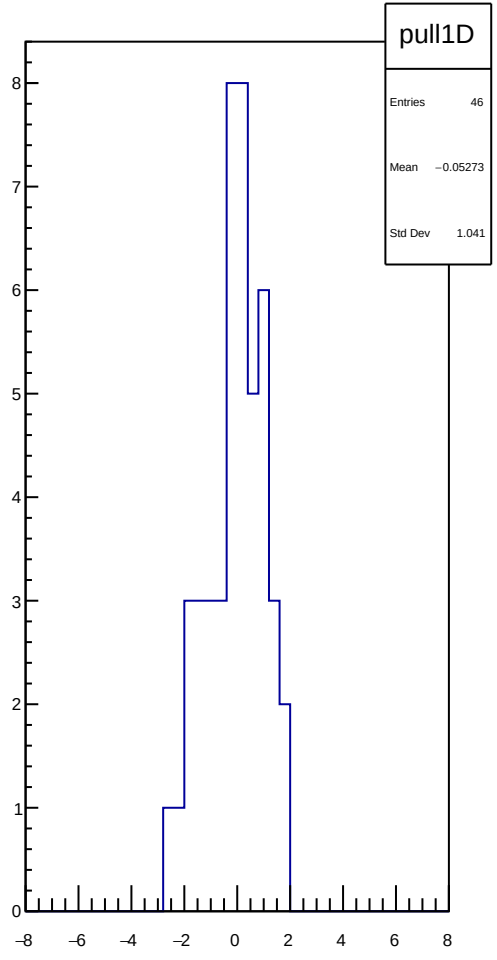

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.275e+05 / 45
p0 1.331e−10 ± 1.9e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

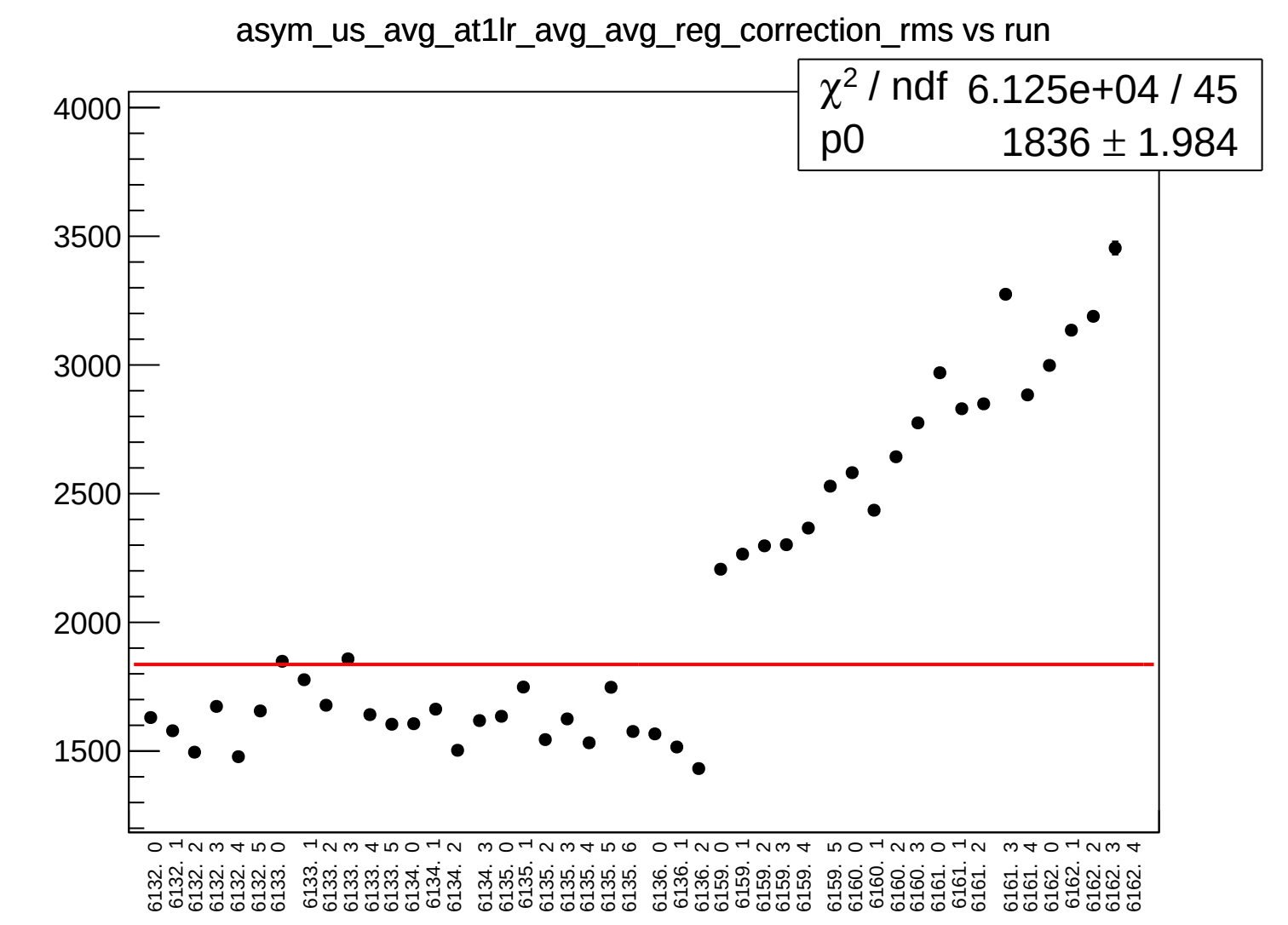

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 45.72 / 45
p0 −4865 ± 3279
pull
Entries 46
Mean 113.4
Std Dev 0

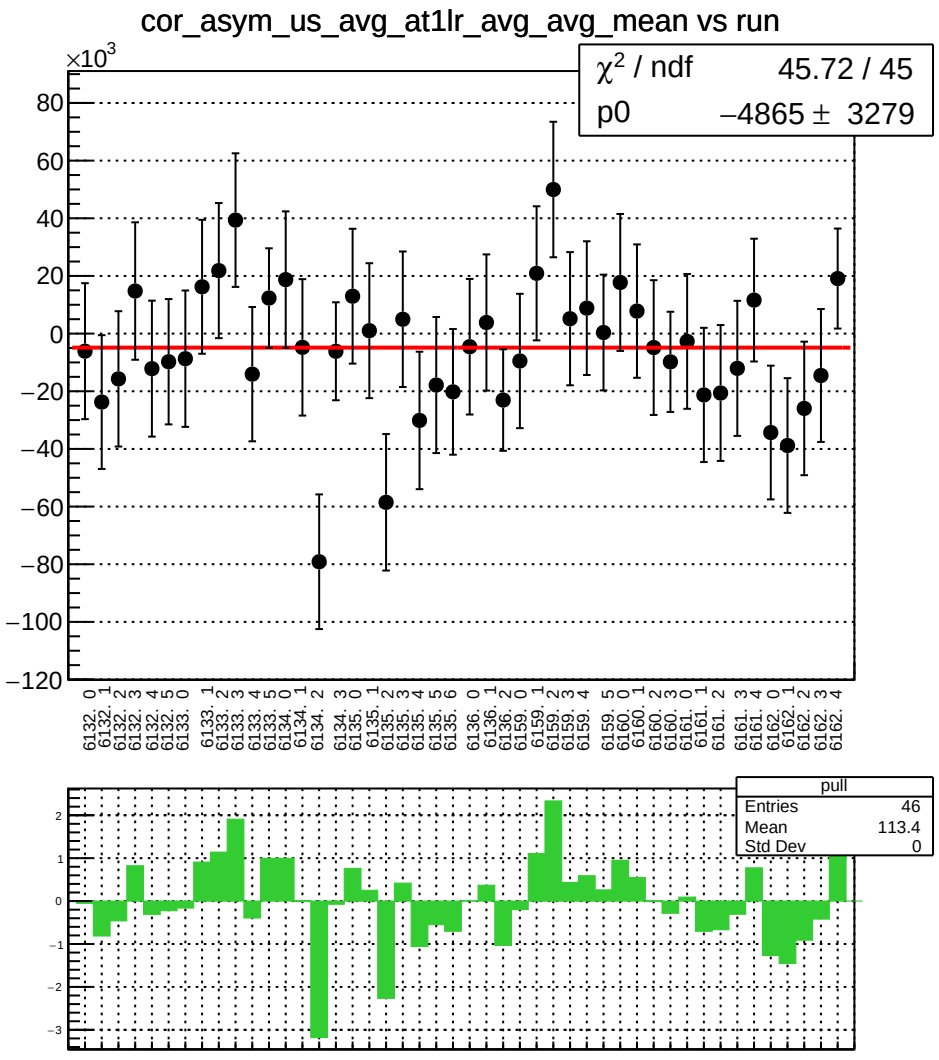

pull1D
Entries 46
Mean −0.009299
Std Dev 0.9969

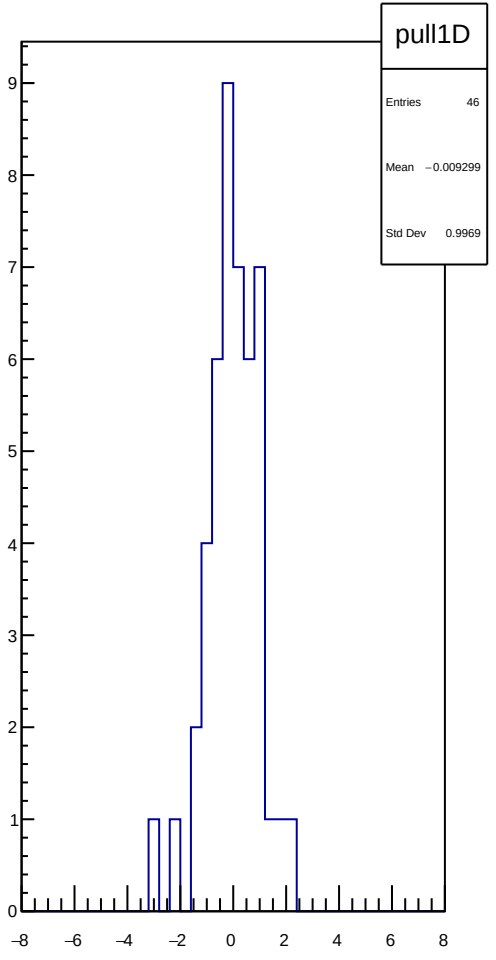

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 92.98 / 45
p0 2221 ± 2.318
2280
2260
2240
2220
2200
2180
2160
2140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

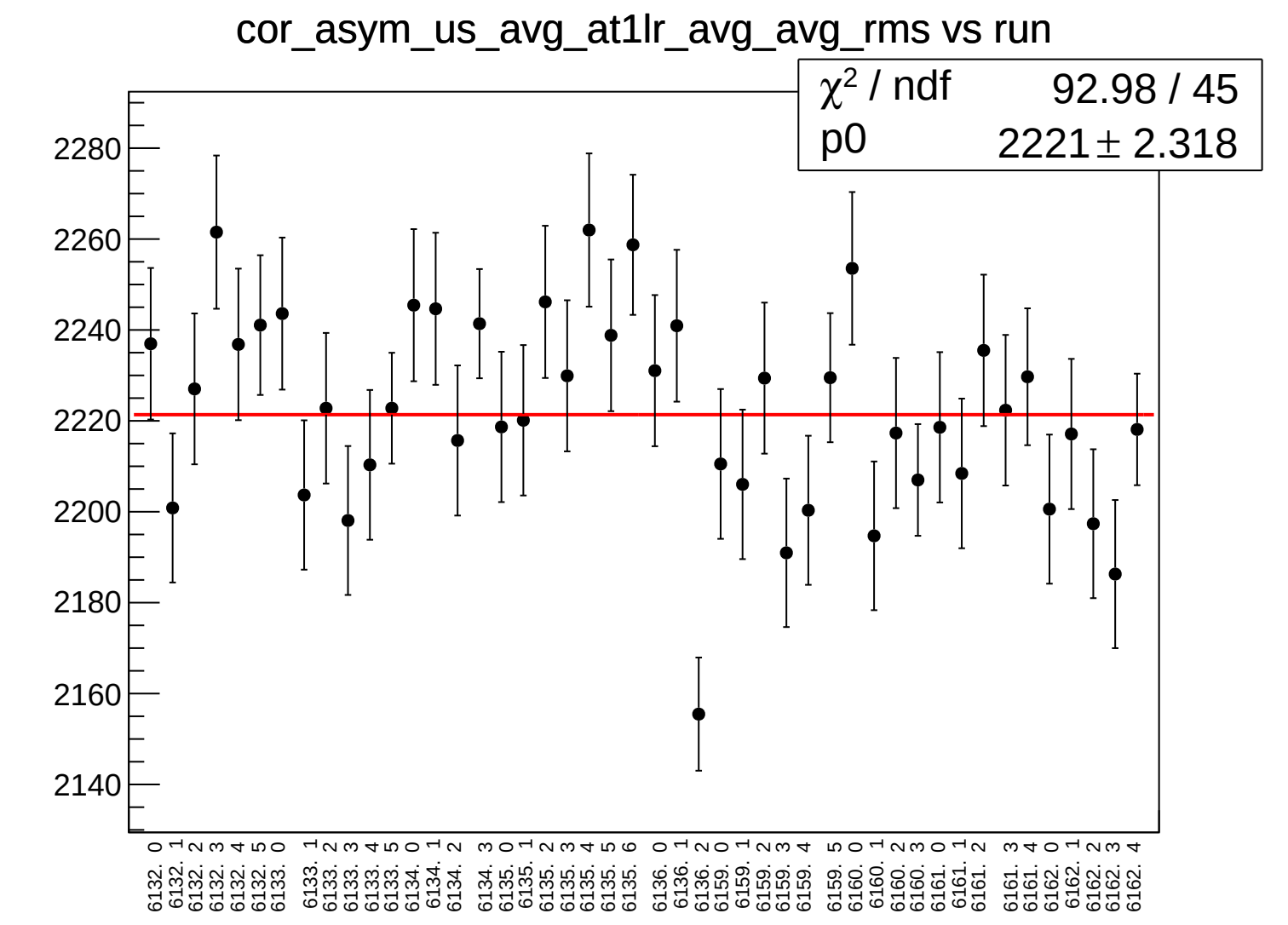

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 50 / 45
p0 1442 ± 2805
pull
Entries 46
Mean 113.1
Std Dev 0

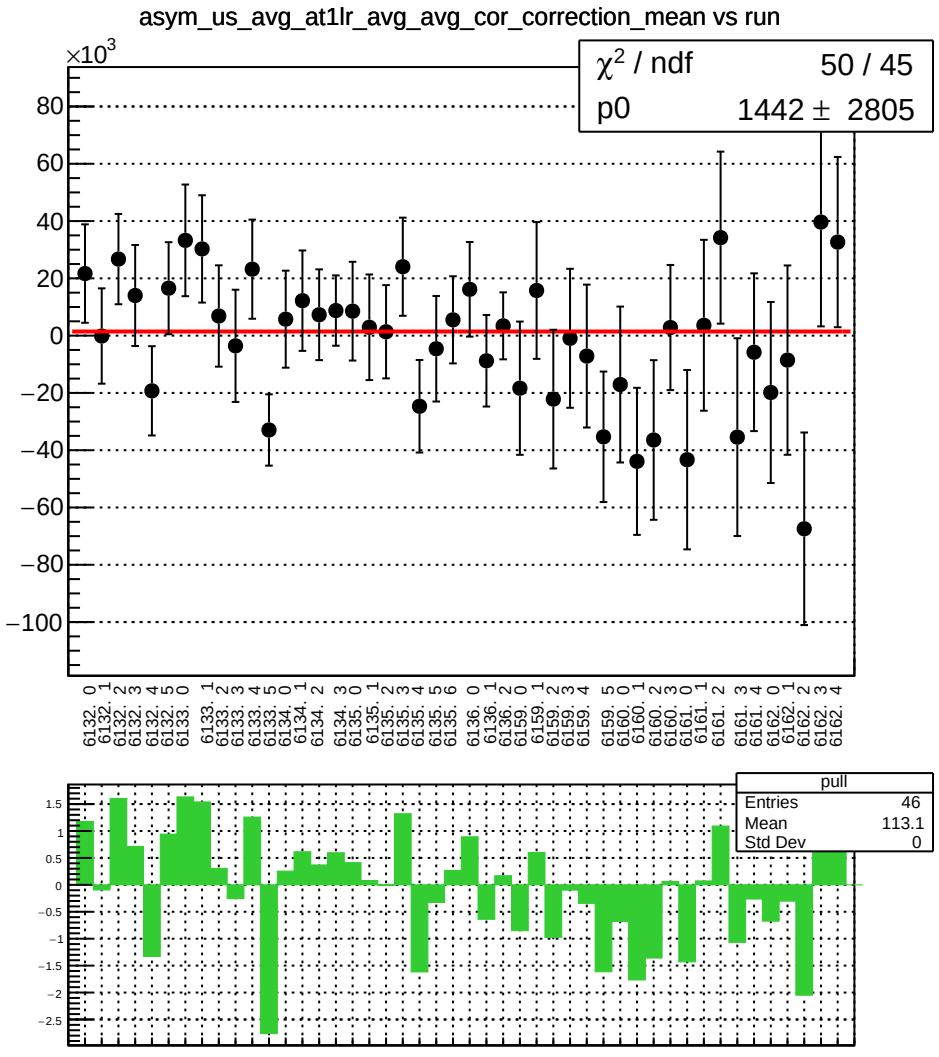

pull1D
Entries 46
Mean −0.05273
Std Dev 1.041

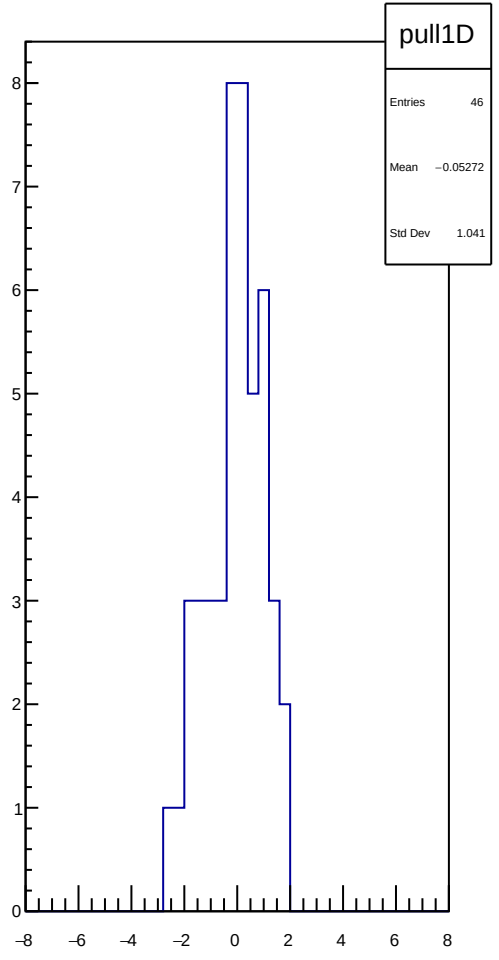

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 6.125e+04 / 45
p0 1836 ± 1.984
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

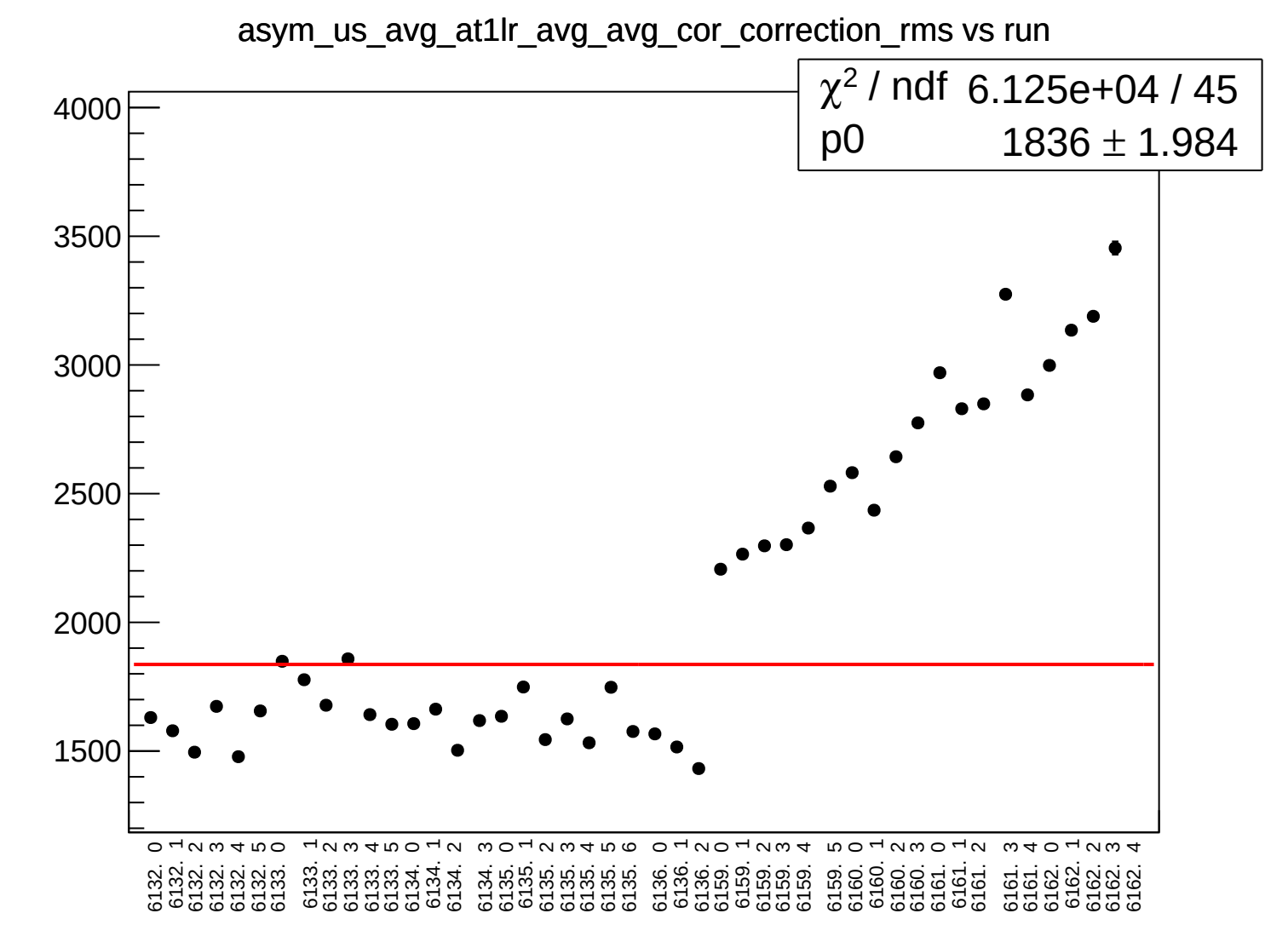

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 45.72 / 45
p0 −4865 ± 3279
pull
Entries 46
Mean 113.4
Std Dev 0


pull1D
Entries 46
Mean −0.009299
Std Dev 0.9969


cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 92.98 / 45
p0 2221 ± 2.318
2280
2260
2240
2220
2200
2180
2160
2140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 50 / 45
p0 1442 ± 2805
pull
Entries 46
Mean 113.1
Std Dev 0


pull1D
Entries 46
Mean −0.05272
Std Dev 1.041


asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 6.125e+04 / 45
p0 1836 ± 1.984
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
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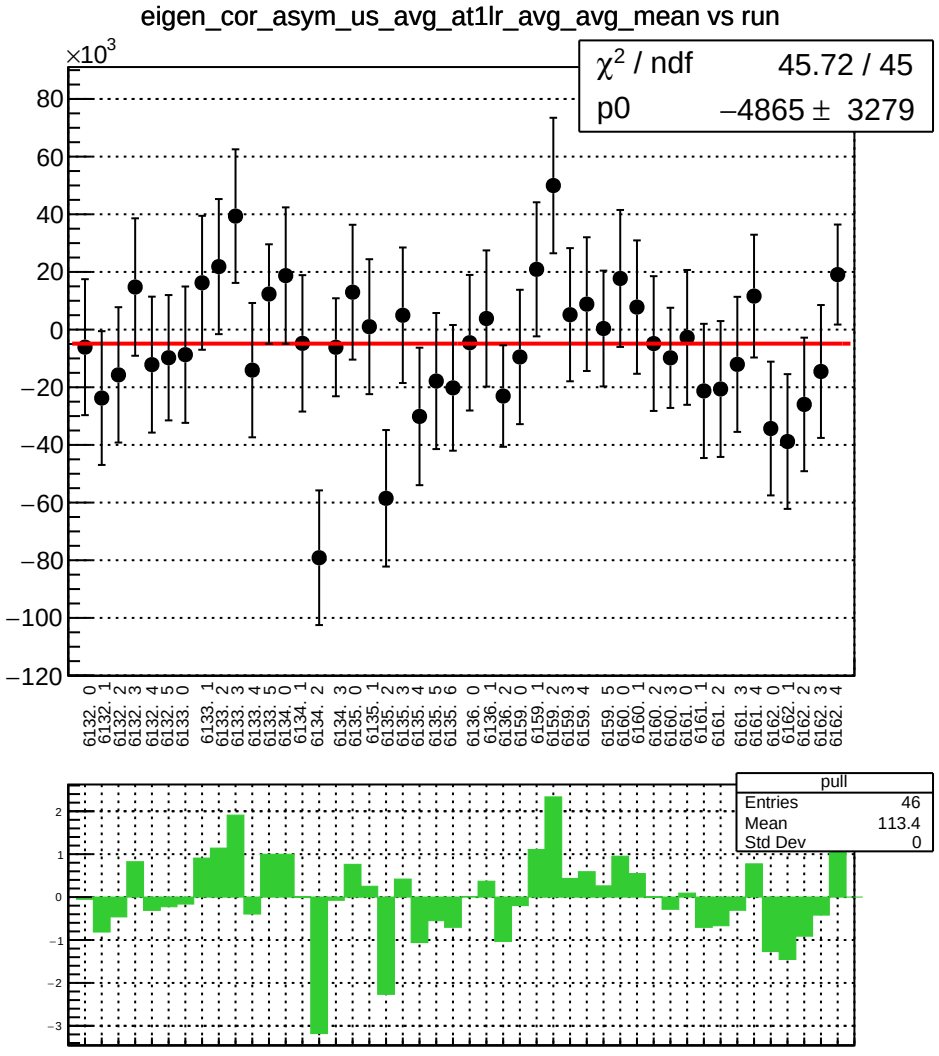
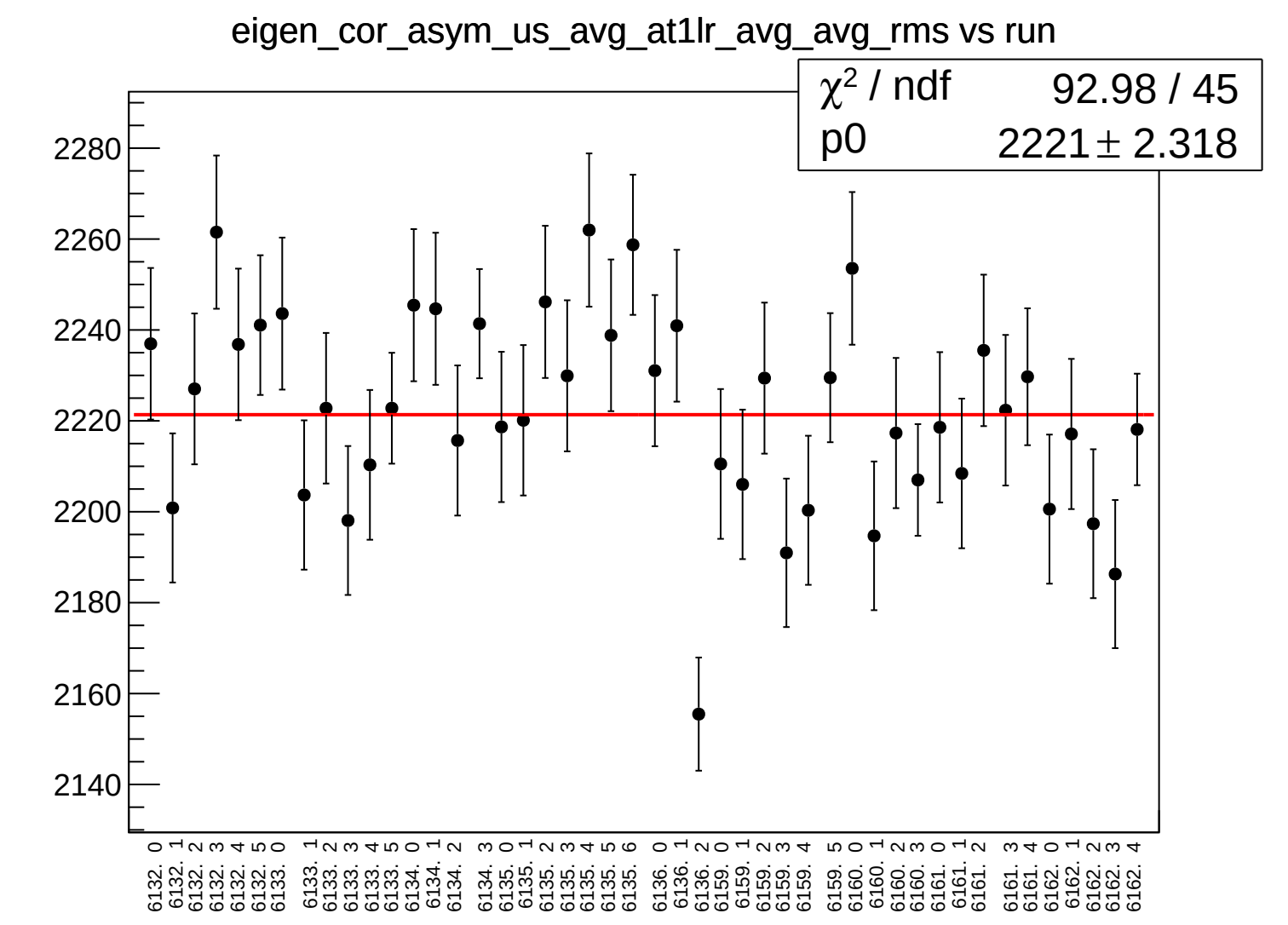
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 45.72 / 45
p0 −4865 ± 3279
pull
Entries 46
Mean 113.4
Std Dev 0
pull1D
Entries 46
Mean −0.009299
Std Dev 0.9969


eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 92.98 / 45
p0 2221 ± 2.318
2280
2260
2240
2220
2200
2180
2160
2140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
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6135. 6
6136. 0
6136. 1
6136. 2
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6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
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6162. 2
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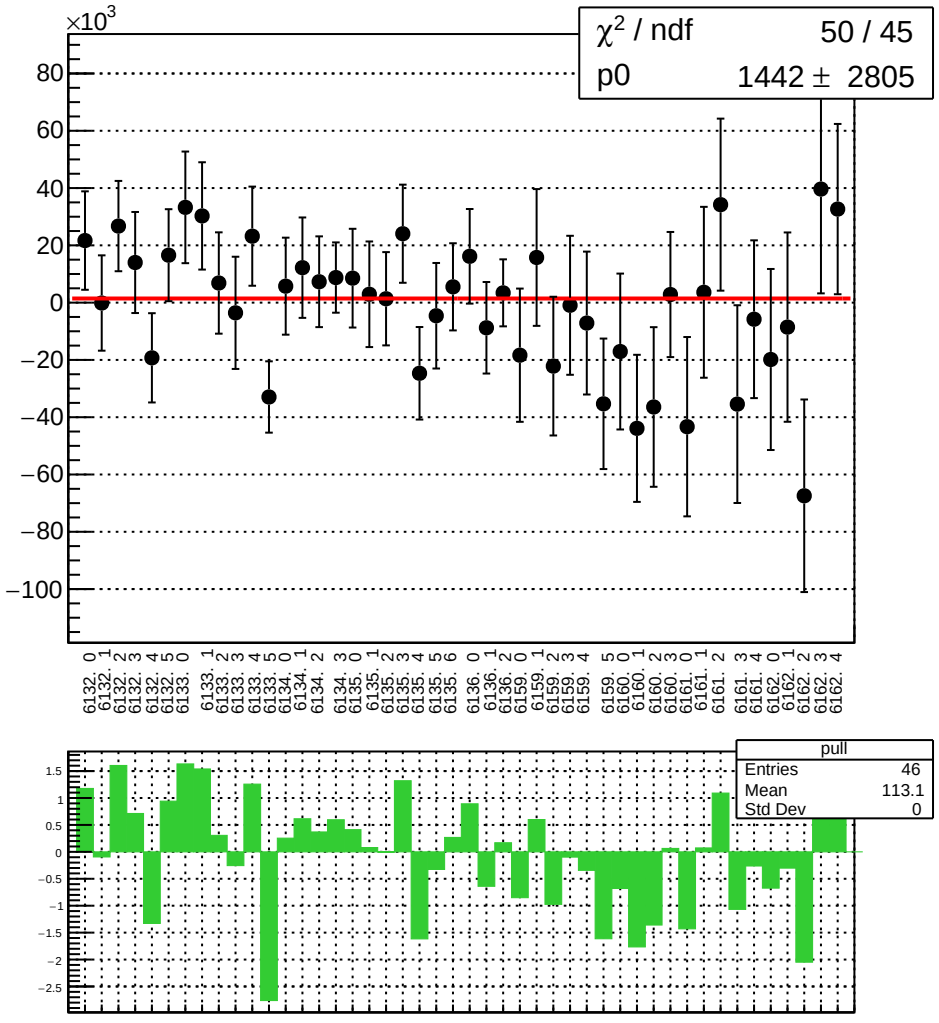
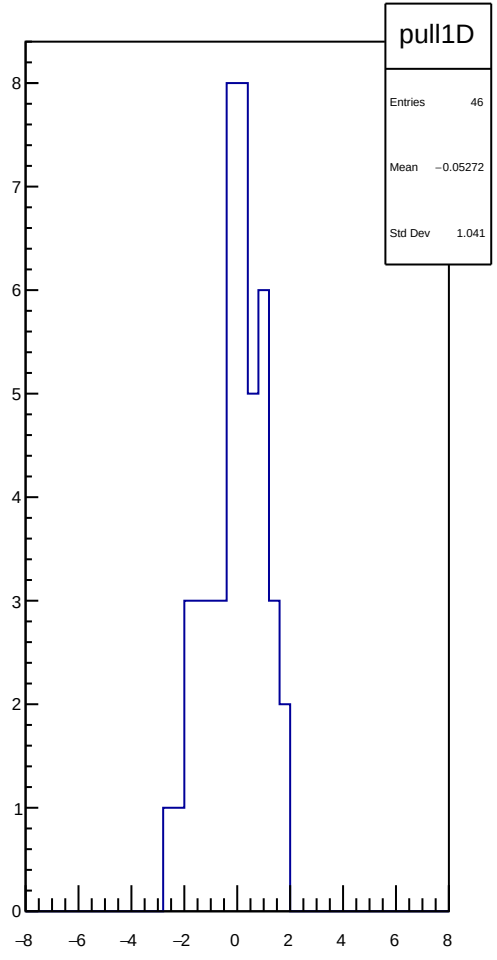
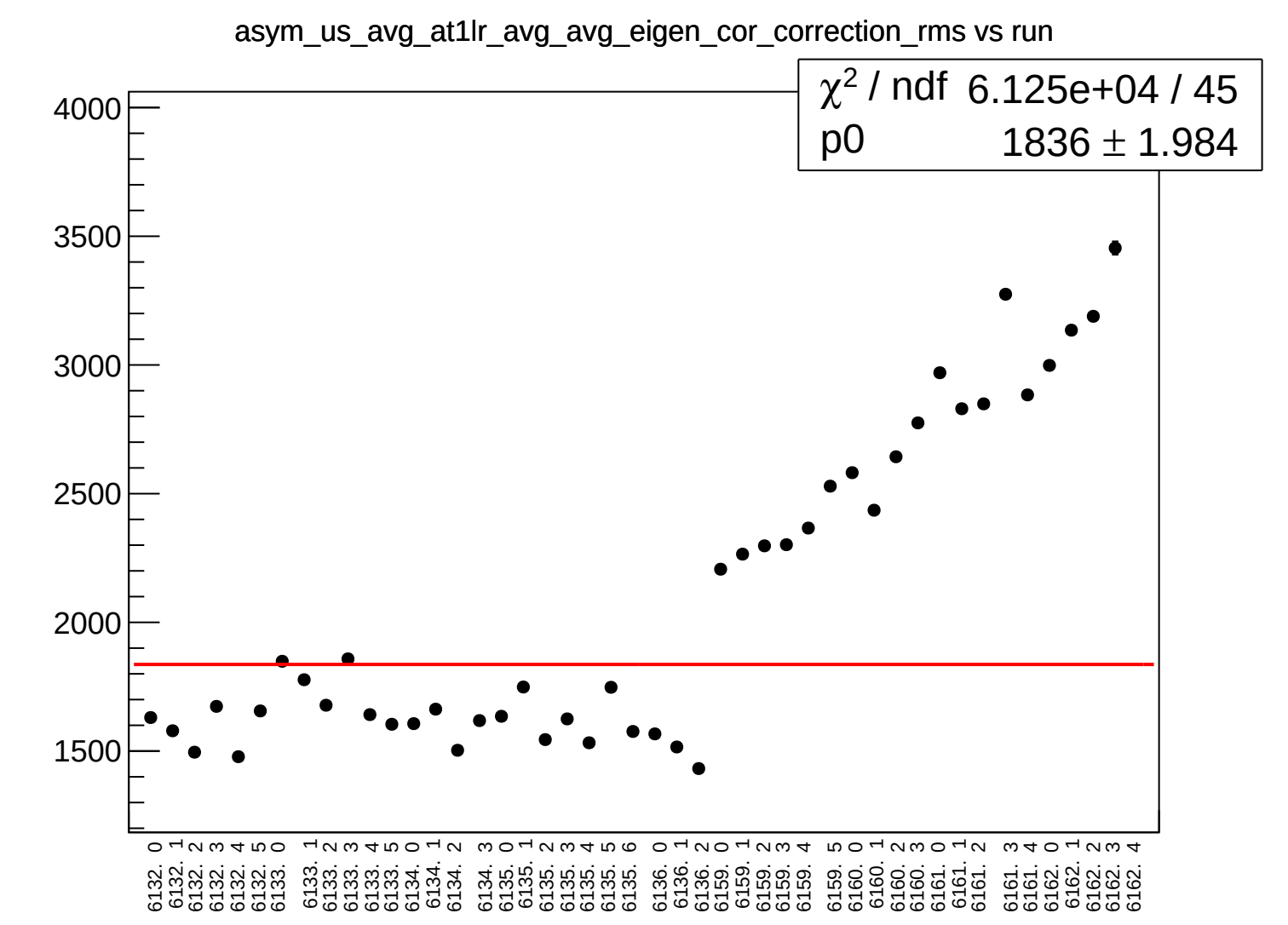
6162. 4


asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 50 / 45
p0 1442 ± 2805
pull
Entries 46
Mean 113.1
Std Dev 0


pull1D
Entries 46
Mean −0.05272
Std Dev 1.041


asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.125e+04 / 45
p0 1836 ± 1.984
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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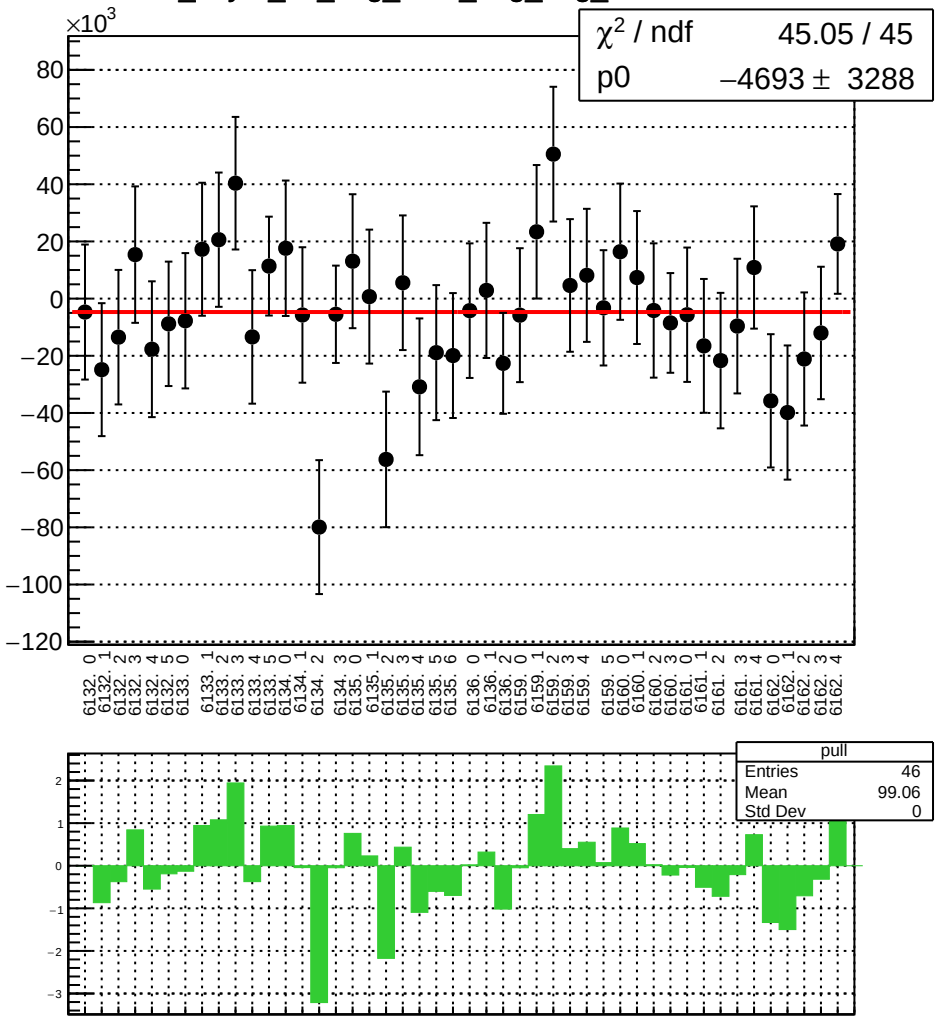
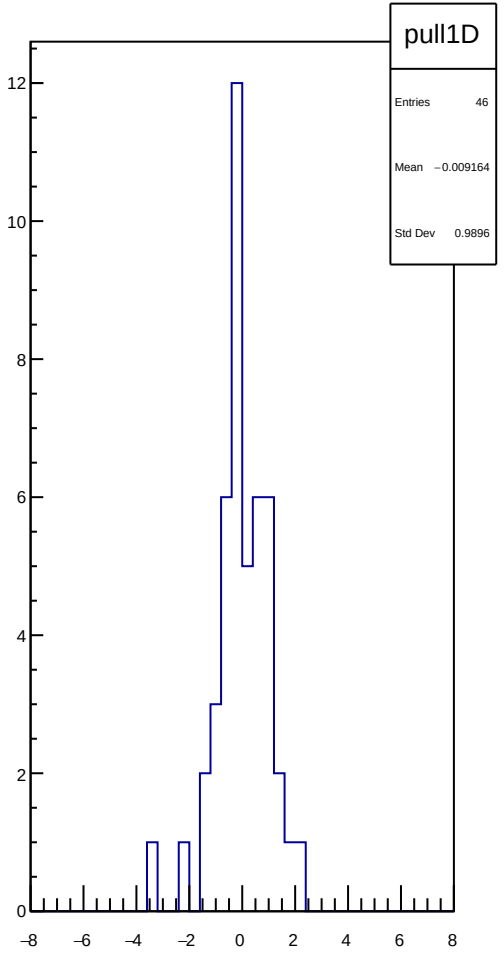
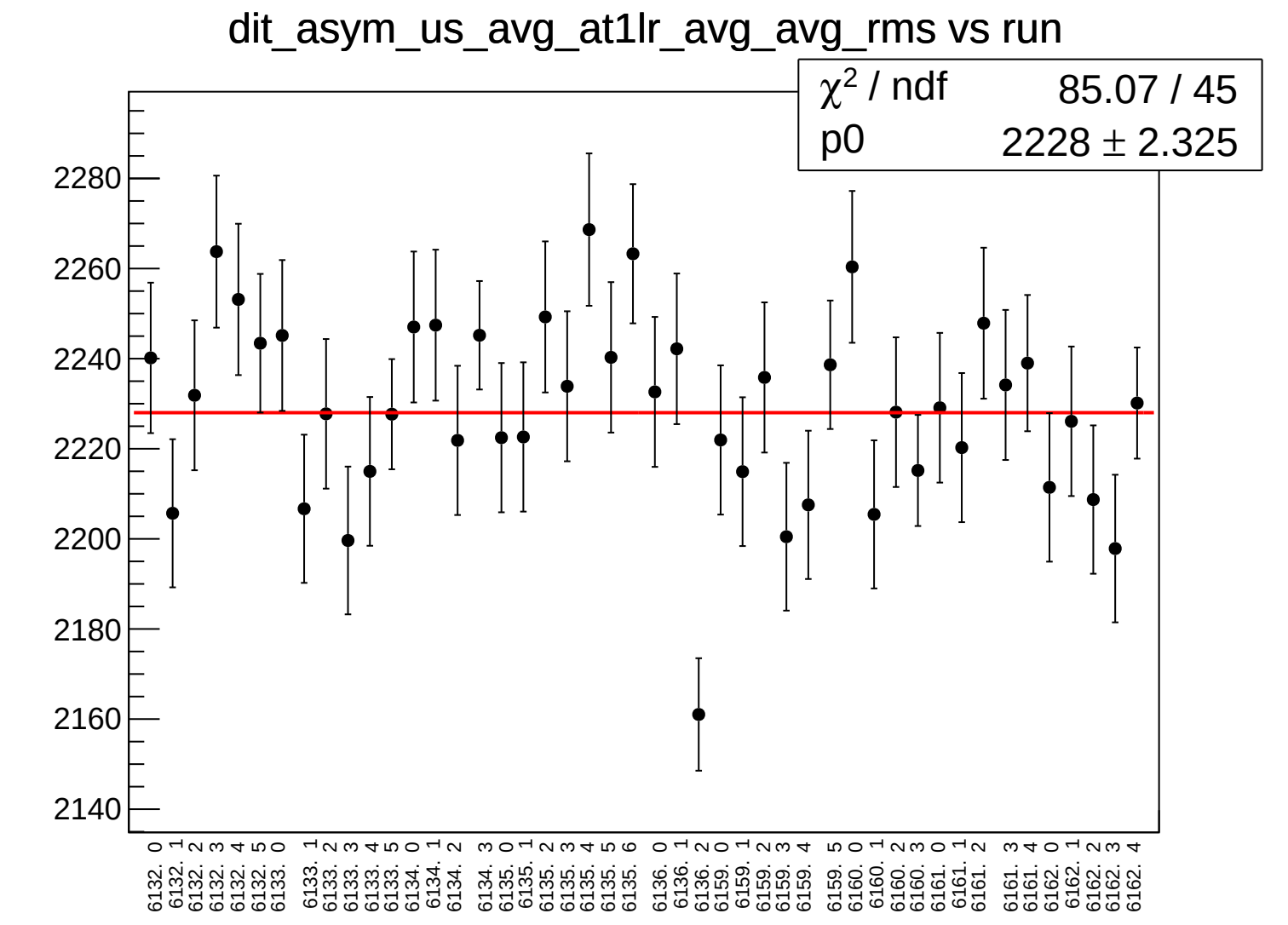
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 45.05 / 45
p0 −4693 ± 3288
pull
Entries 46
Mean 99.06
Std Dev 0


pull1D
Entries 46
Mean −0.009164
Std Dev 0.9896


dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 85.07 / 45
p0 2228 ± 2.325
2280
2260
2240
2220
2200
2180
2160
2140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 2
6133. 3
6133. 4
6133. 5
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6160. 2
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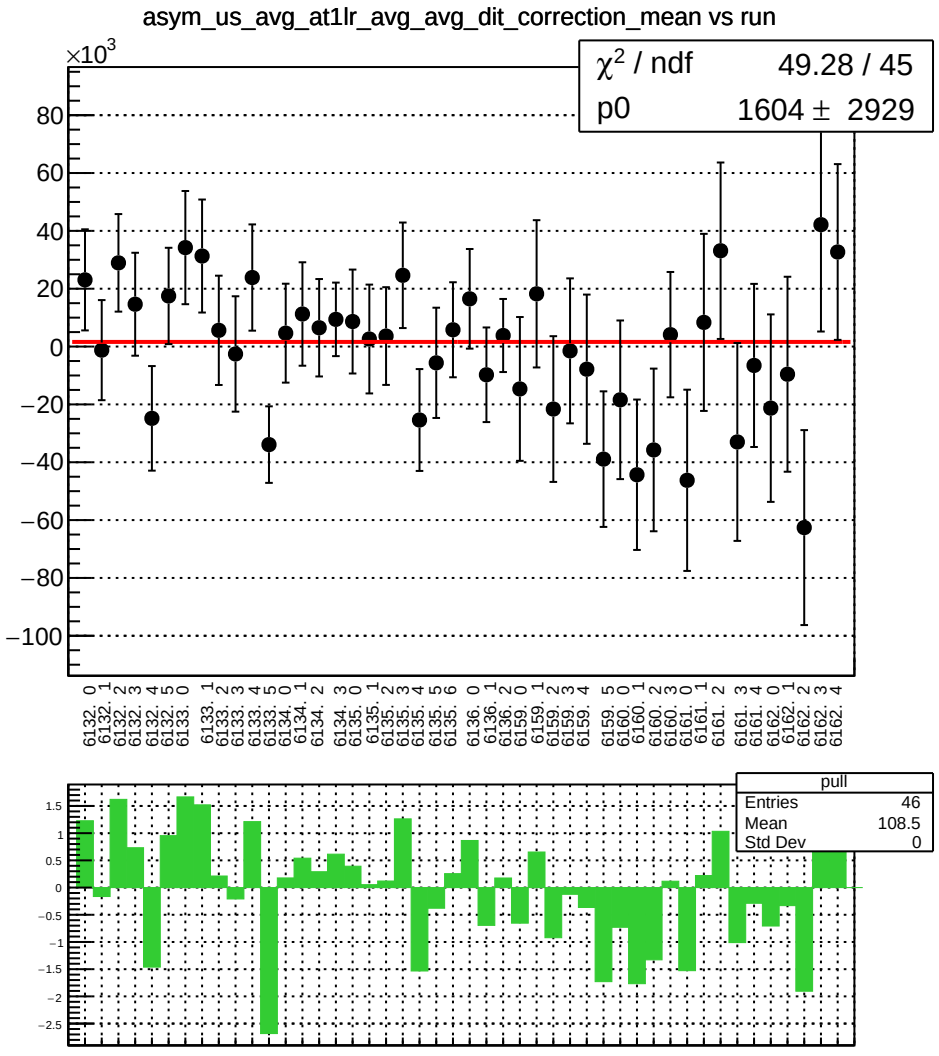
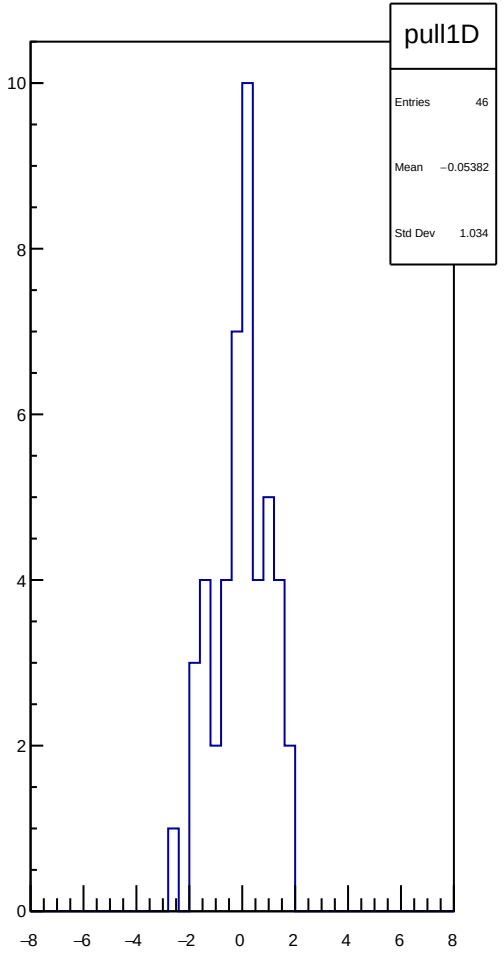
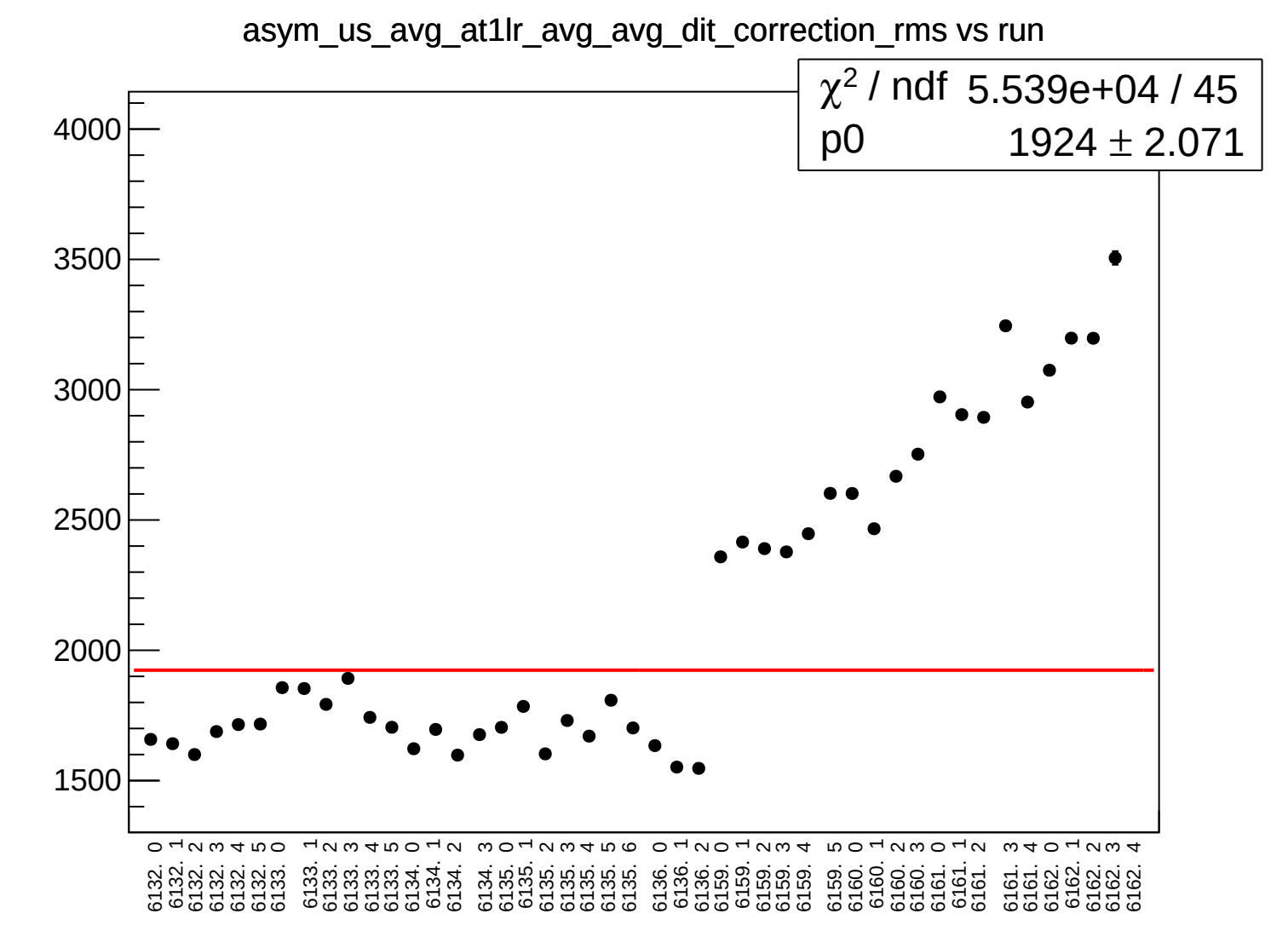
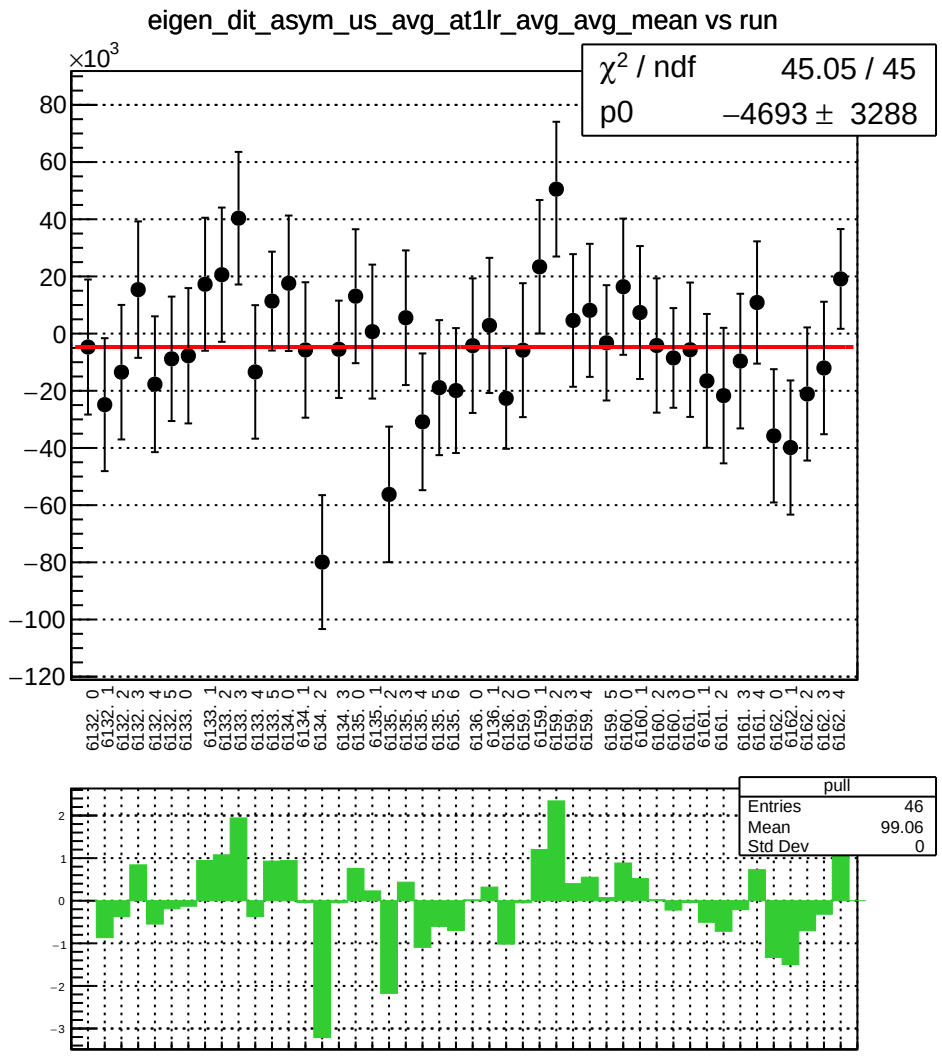
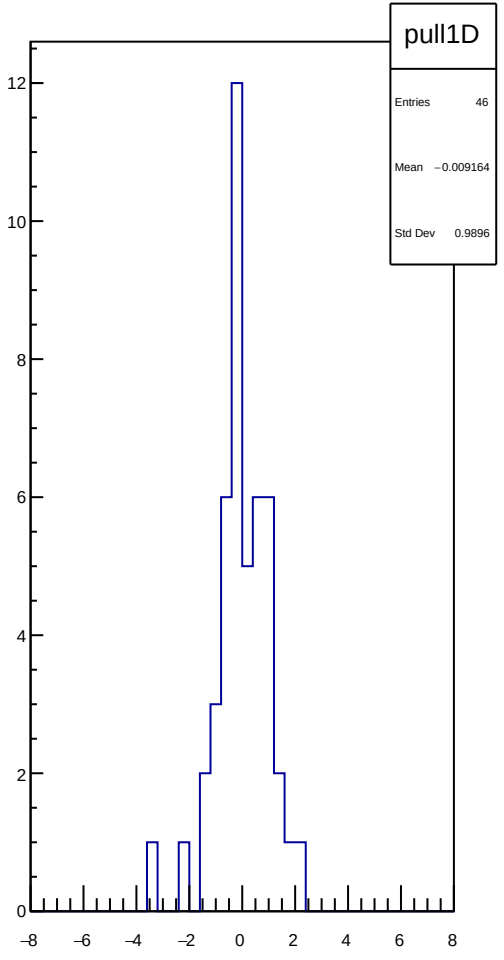
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

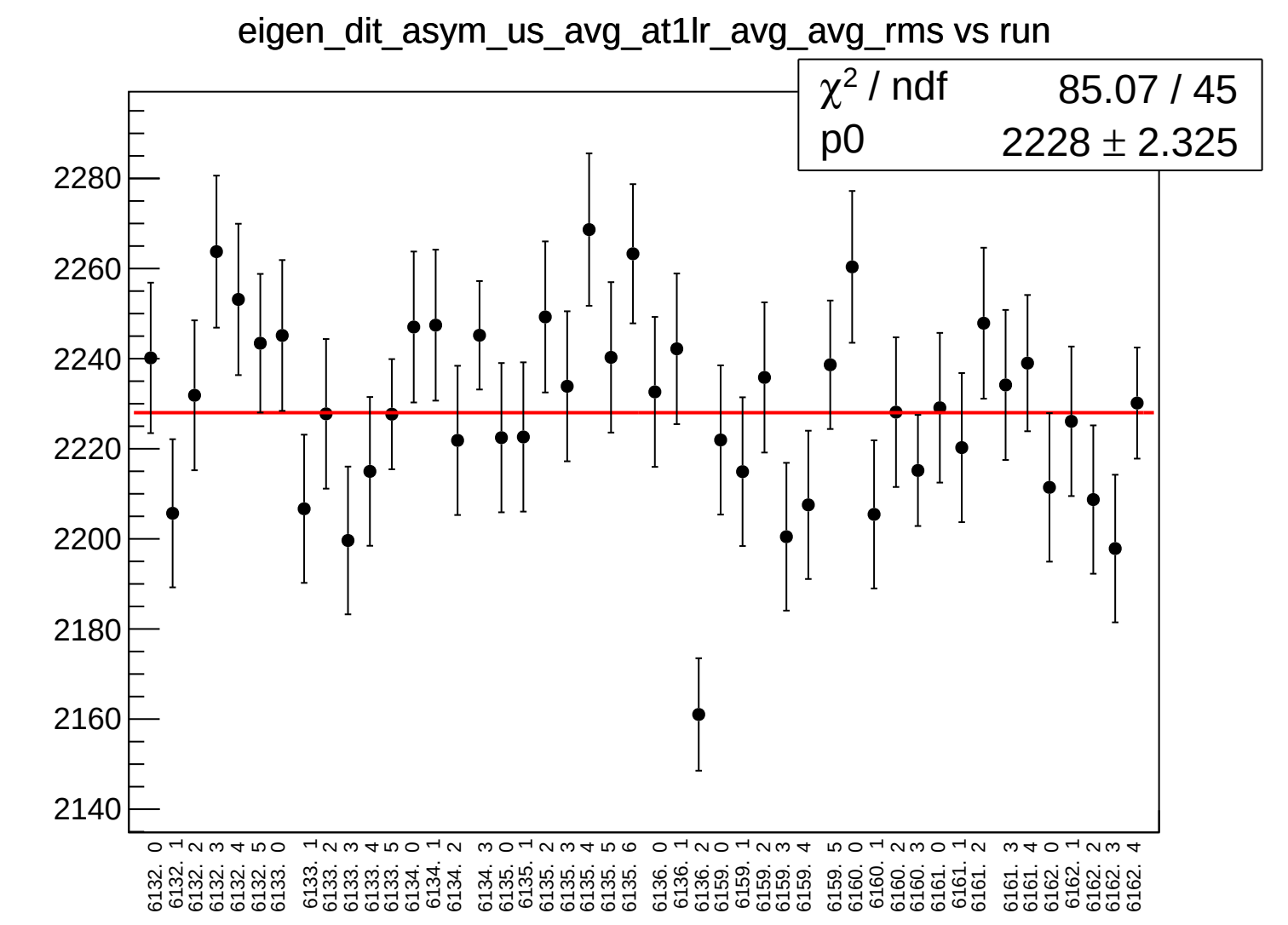

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 49.28 / 45
p0 1604 ± 2929
pull
Entries 46
Mean 108.5
Std Dev 0

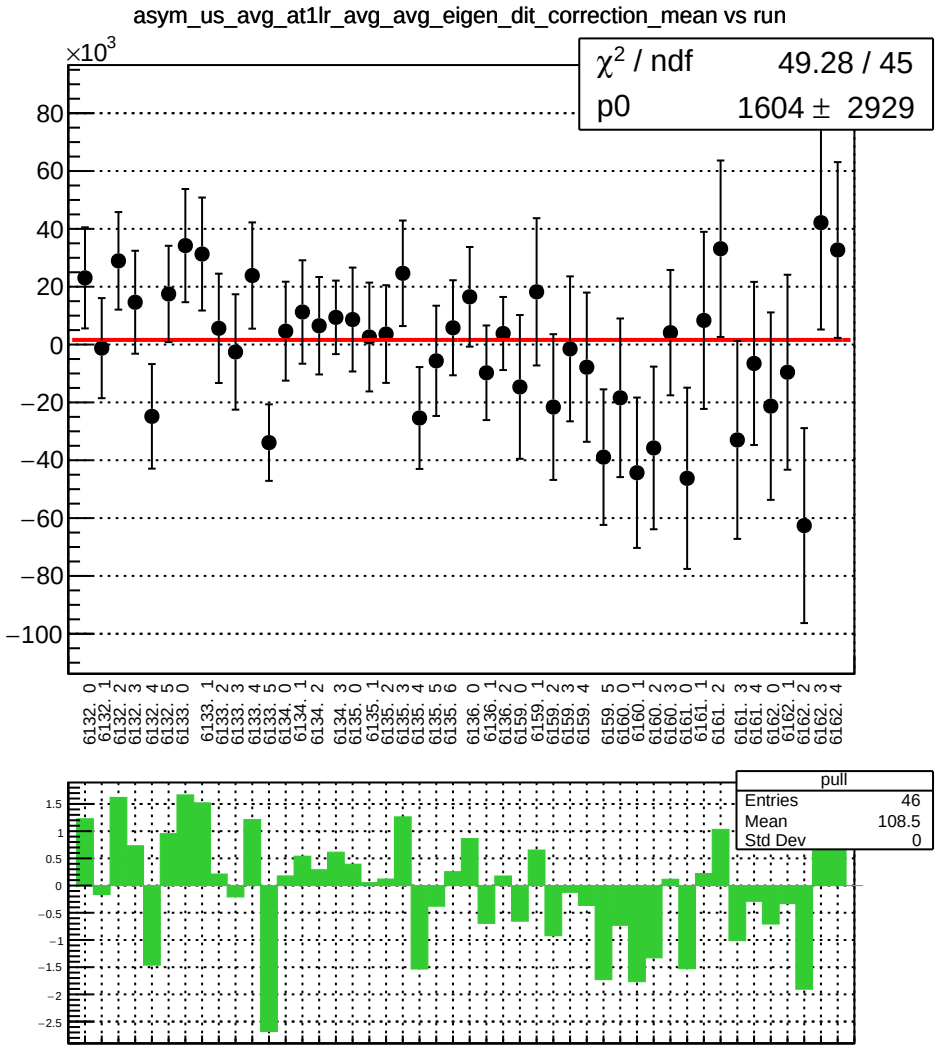

pull1D
Entries 46
Mean −0.05382
Std Dev 1.034

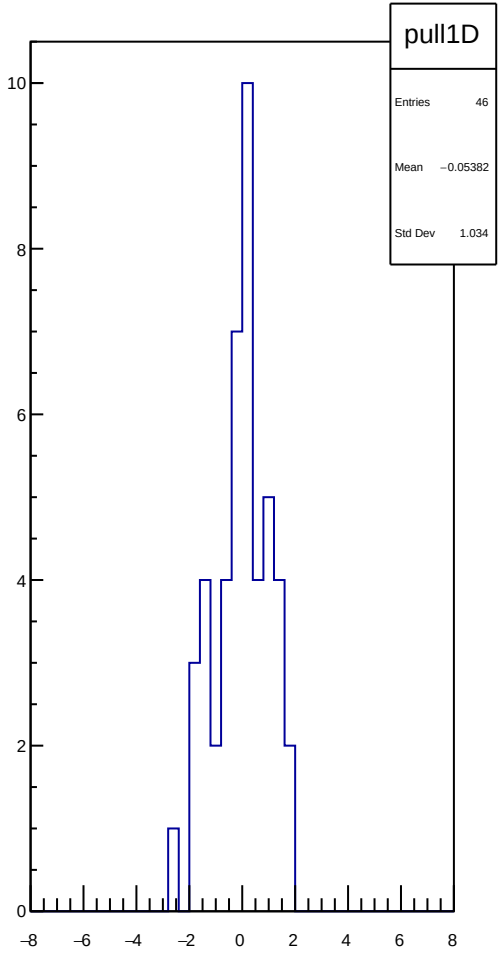

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 5.539e+04 / 45
p0 1924 ± 2.071
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

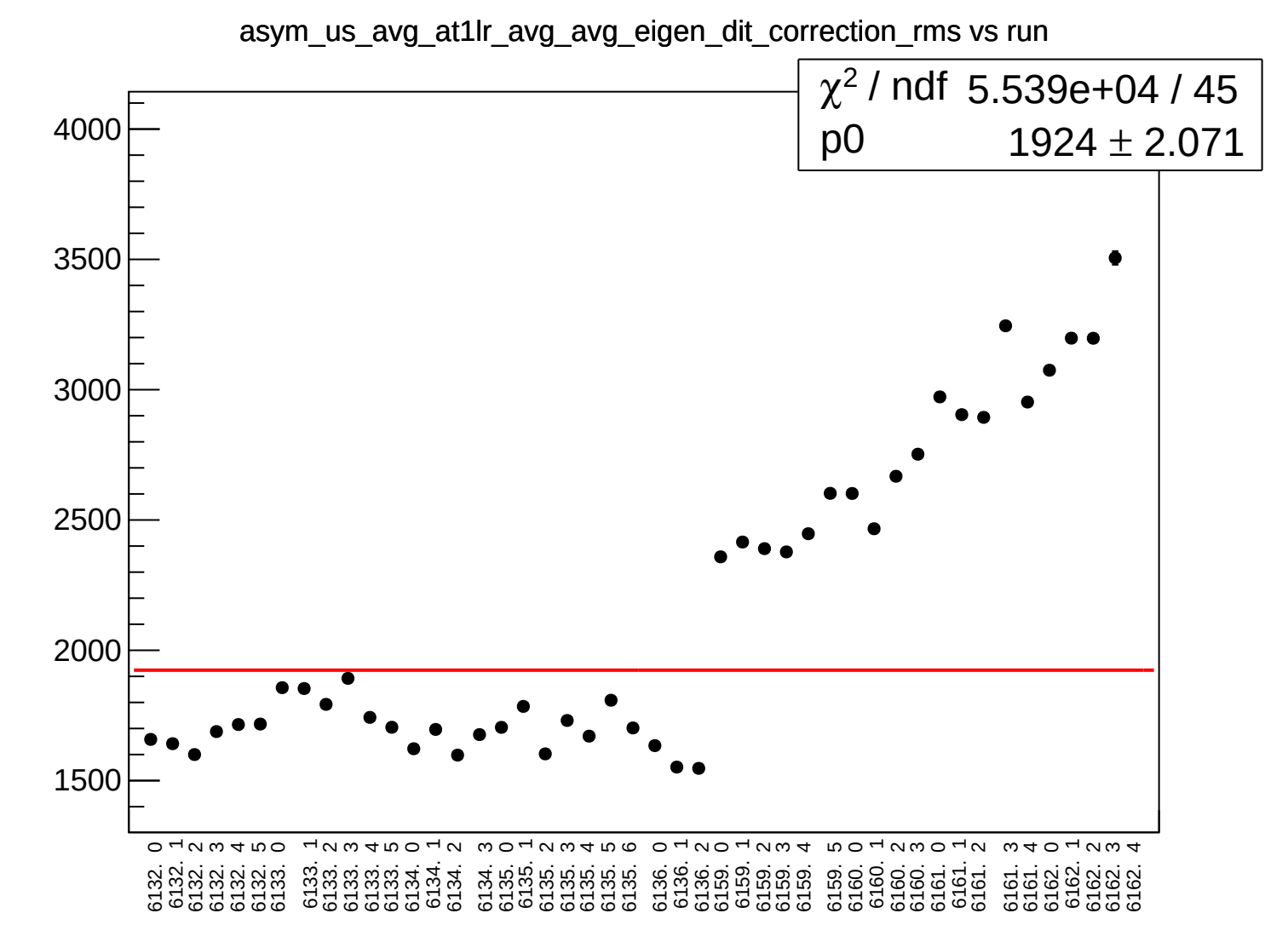

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 45.05 / 45
p0 −4693 ± 3288
pull
Entries 46
Mean 99.06
Std Dev 0

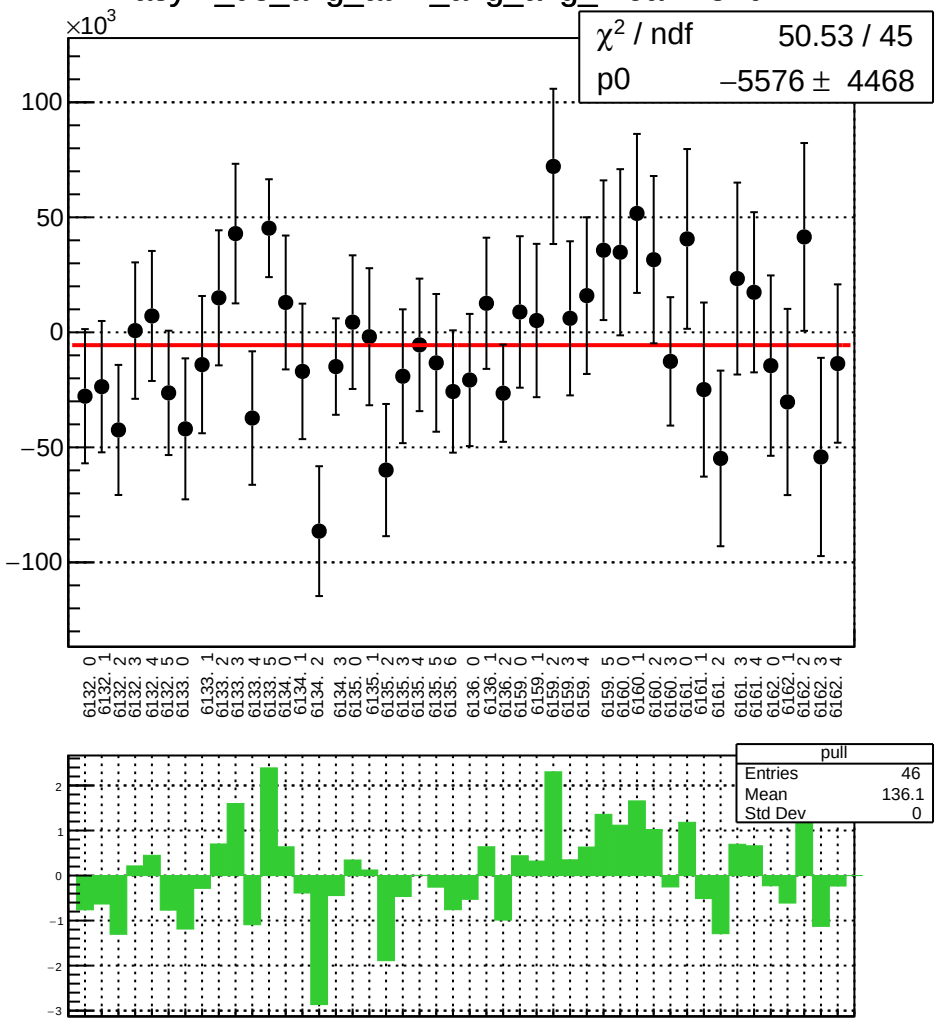

pull1D
Entries 46
Mean −0.009164
Std Dev 0.9896

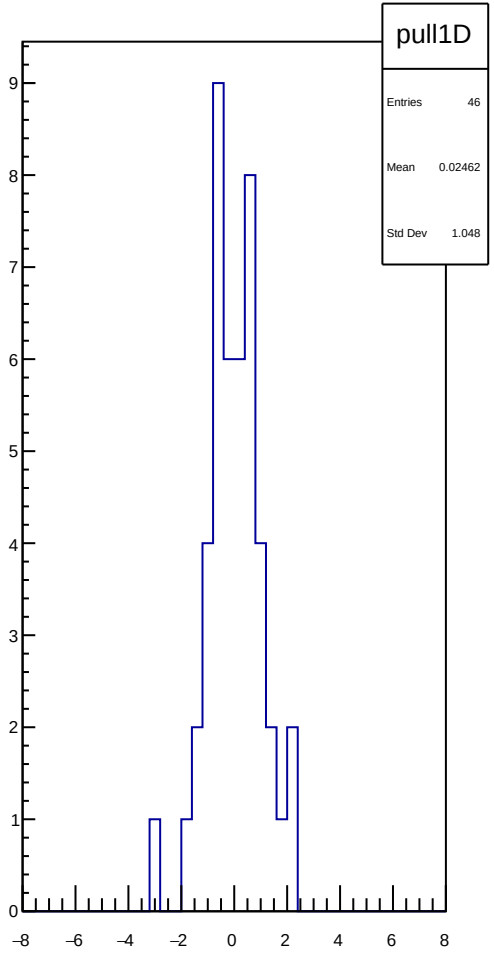

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 85.07 / 45
p0 2228 ± 2.325
2280
2260
2240
2220
2200
2180
2160
2140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

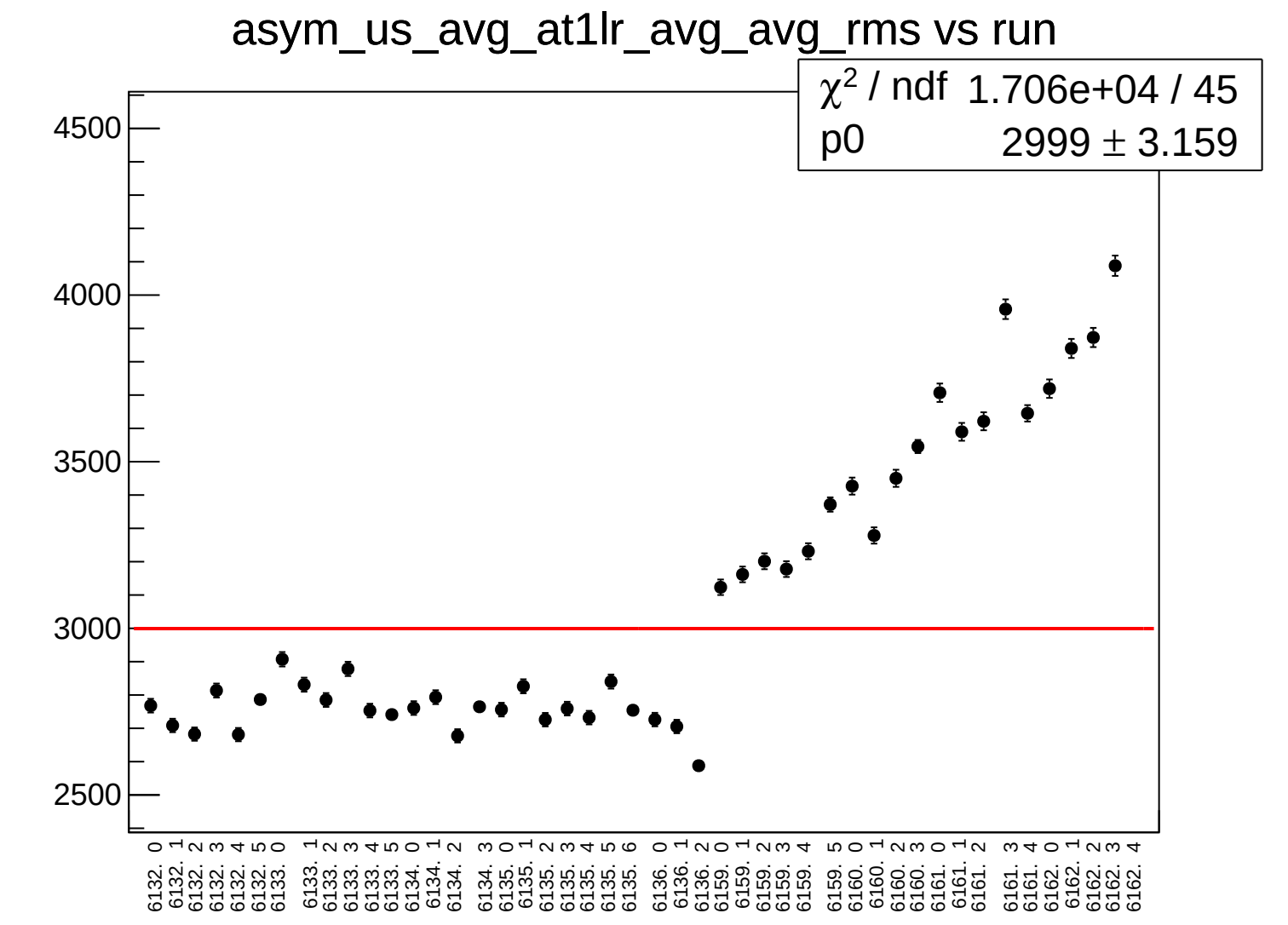

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 49.28 / 45
p0 1604 ± 2929
80
60
40
20
0
−20
−40
−60
−80
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 108.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

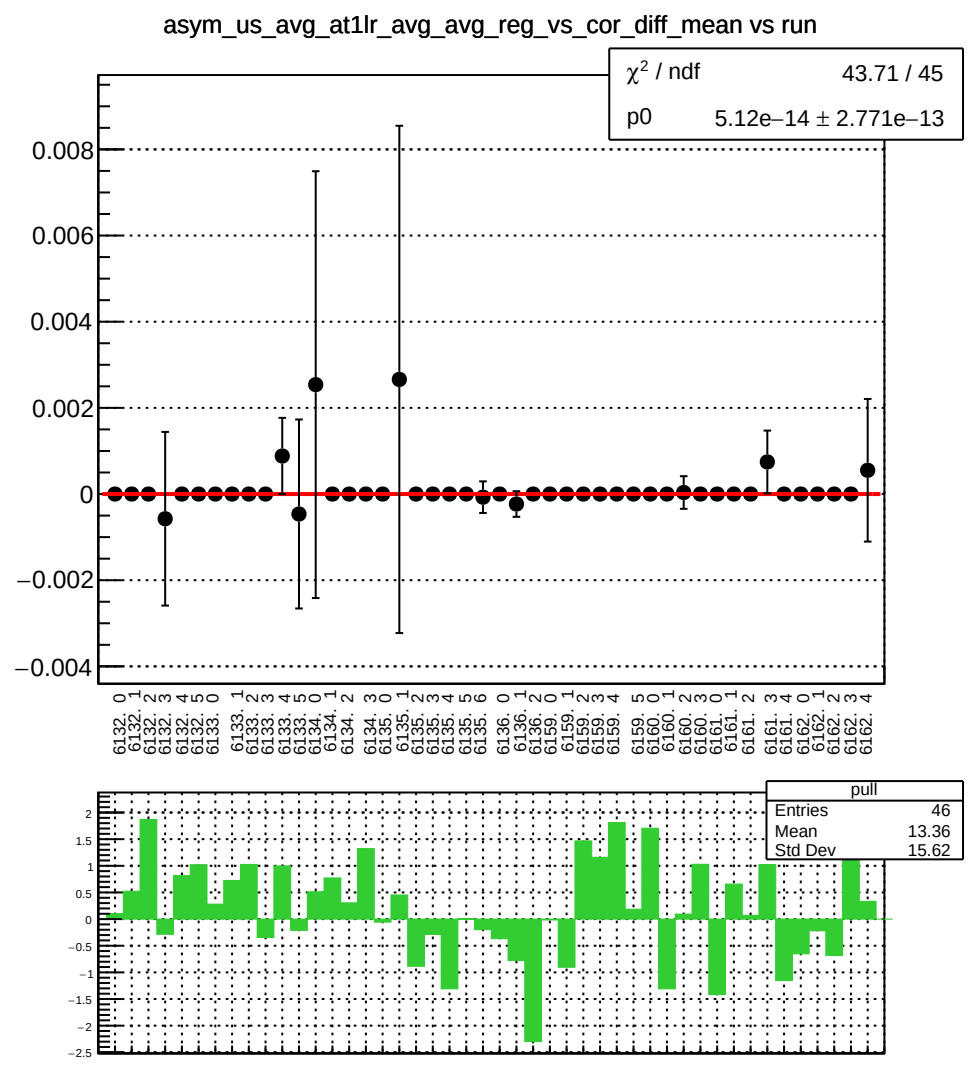

pull1D
Entries 46
Mean −0.05382
Std Dev 1.034
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

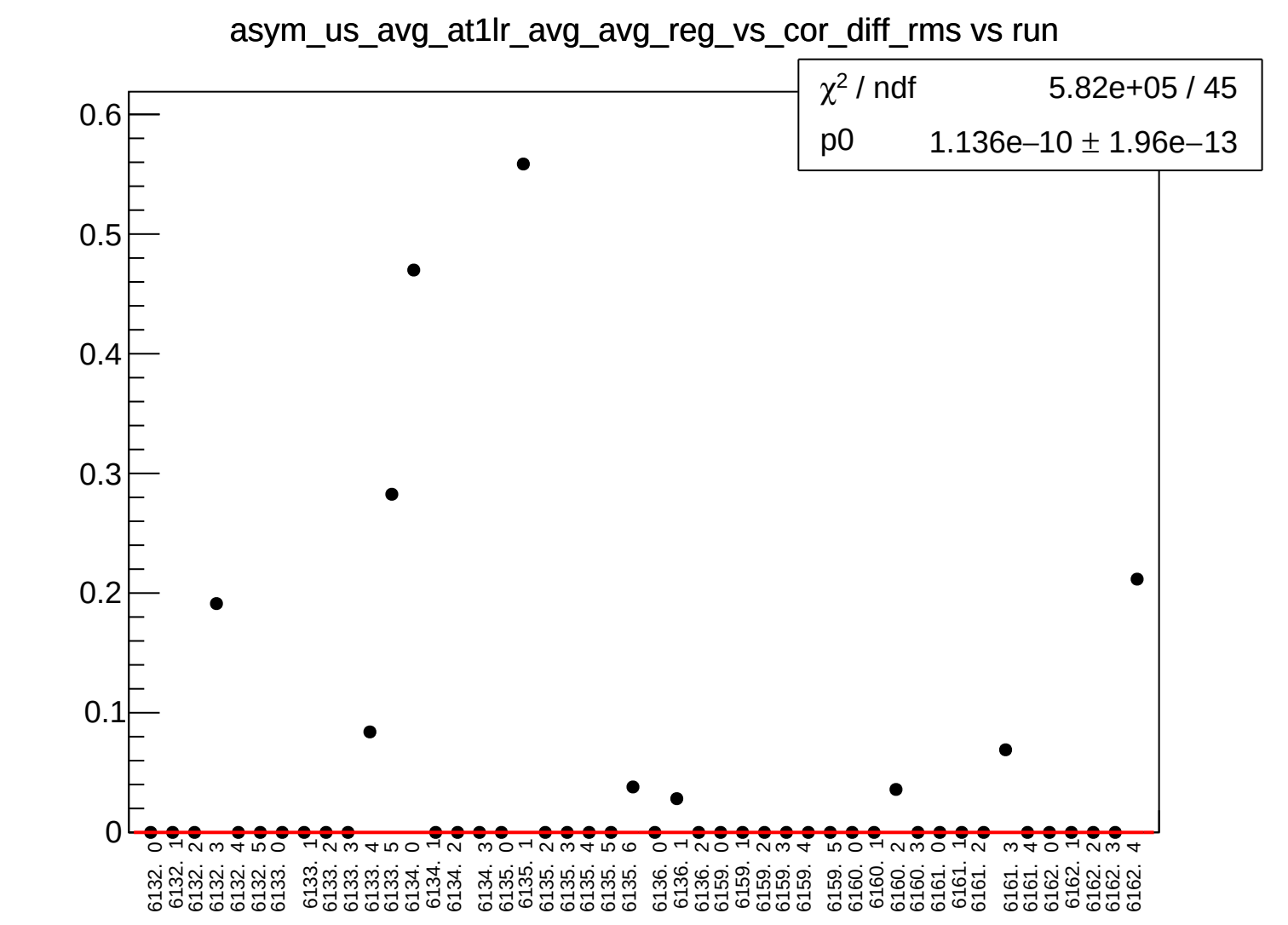

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.539e+04 / 45
p0 1924 ± 2.071
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

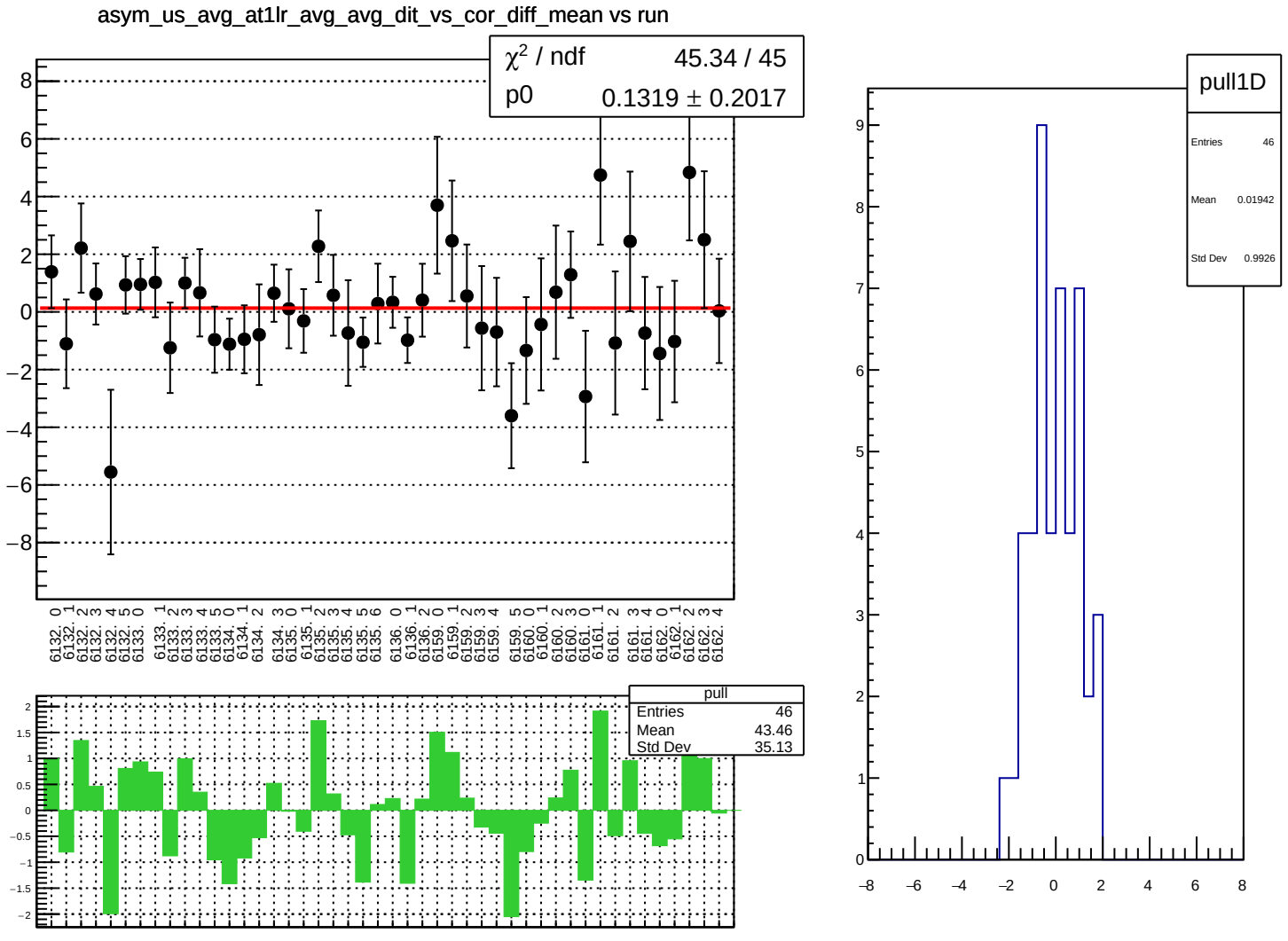

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 50.53 / 45
p0 −5576 ± 4468
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 136.1
Std Dev 0
2
1
0
−1
−2
−3

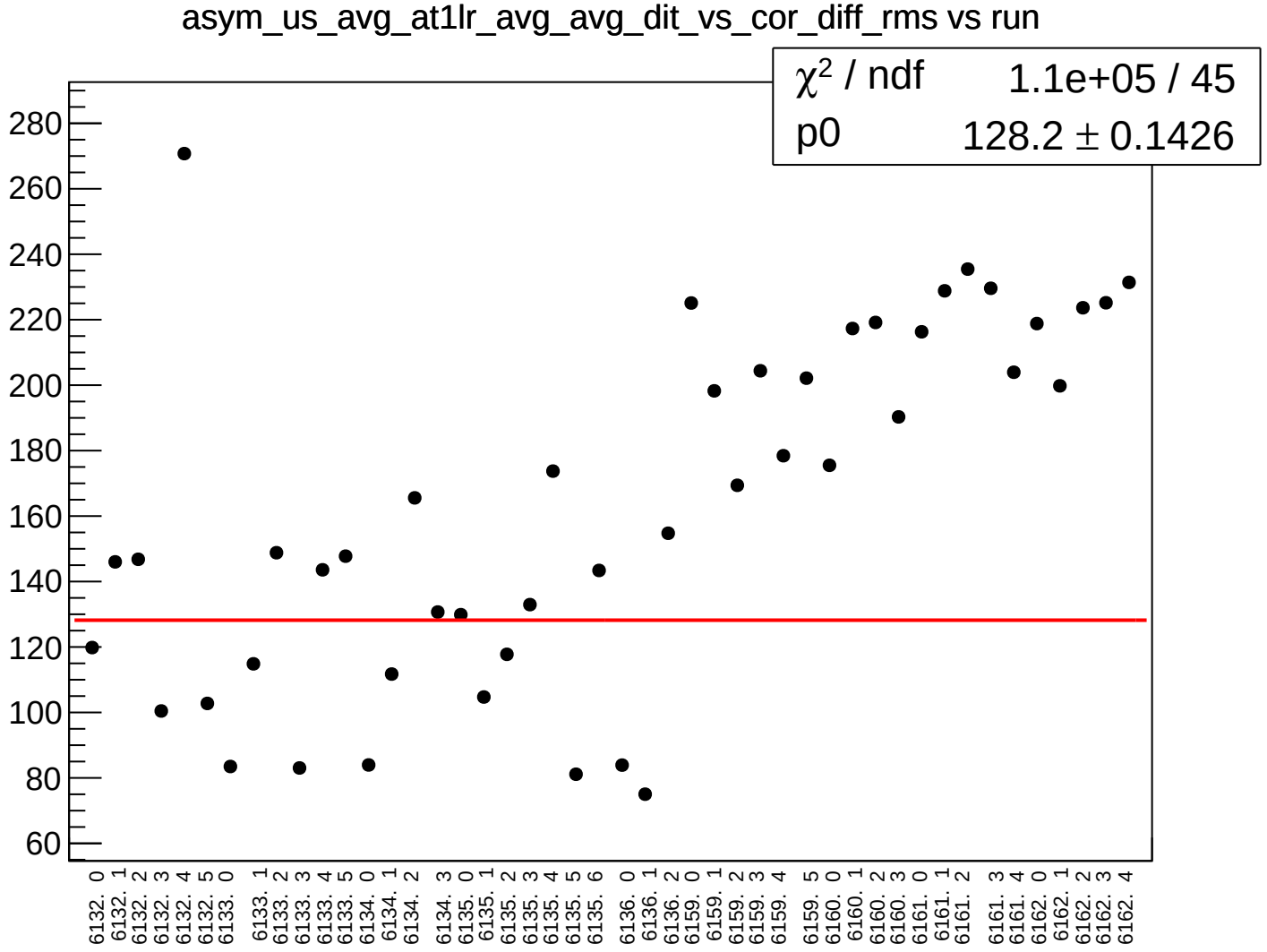

pull1D
Entries 46
Mean 0.02462
Std Dev 1.048
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1.706e+04 / 45
p0 2999 ± 3.159
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 43.71 / 45
p0 5.12e−14 ± 2.771e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 13.36
Std Dev 15.62
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean 0.1964
Std Dev 0.9548
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.82e+05 / 45
p0 1.136e−10 ± 1.96e−13
0.6
0.5
0.4
0.3
0.2
0.1
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 45.34 / 45
p0 0.1319 ± 0.2017
pull
Entries 46
Mean 43.46
Std Dev 35.13
pull1D
Entries 46
Mean 0.01942
Std Dev 0.9926


asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.1e+05 / 45
p0 128.2 ± 0.1426
280
260
240
220
200
180
160
140
120
100
80
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
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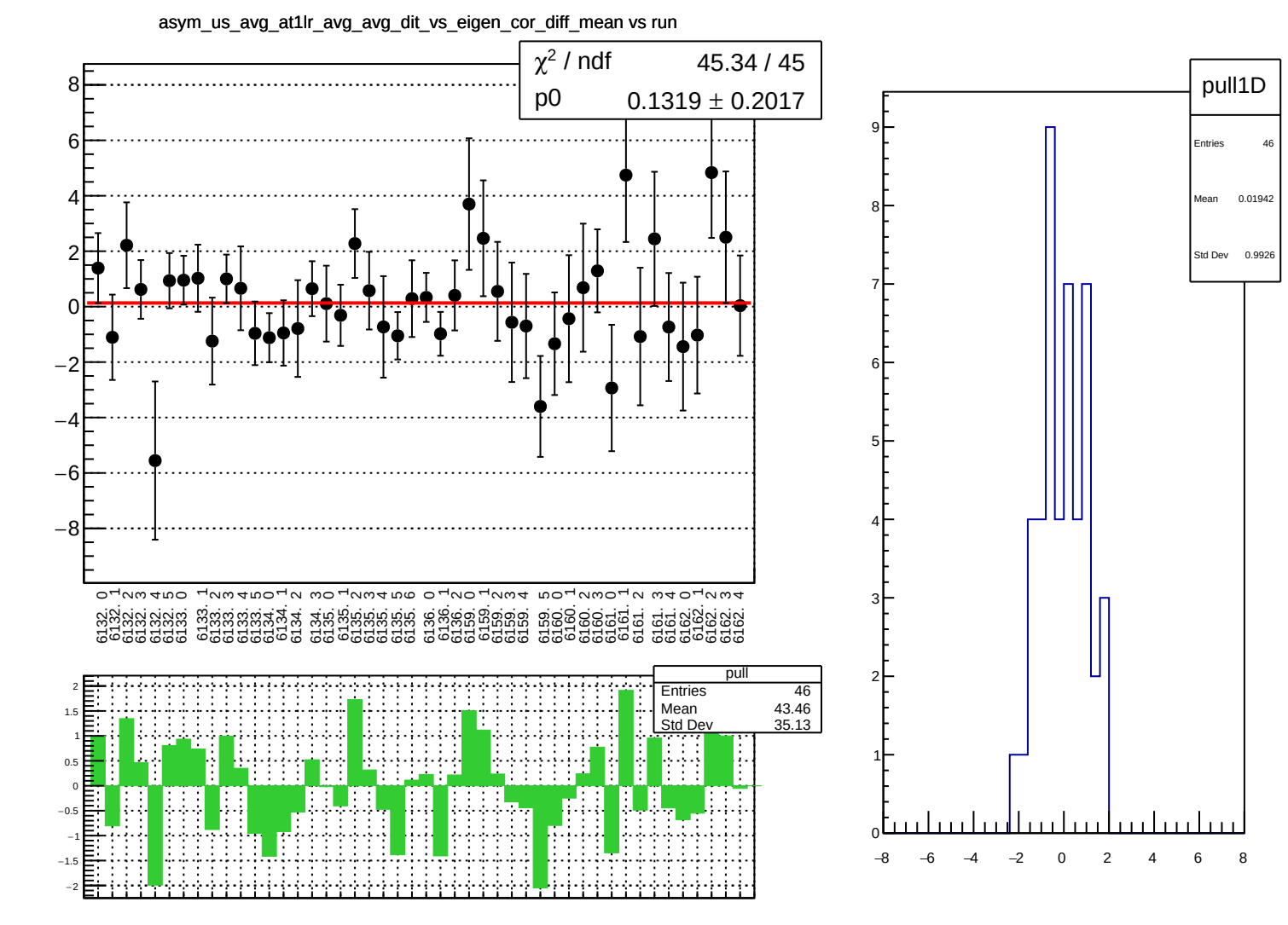
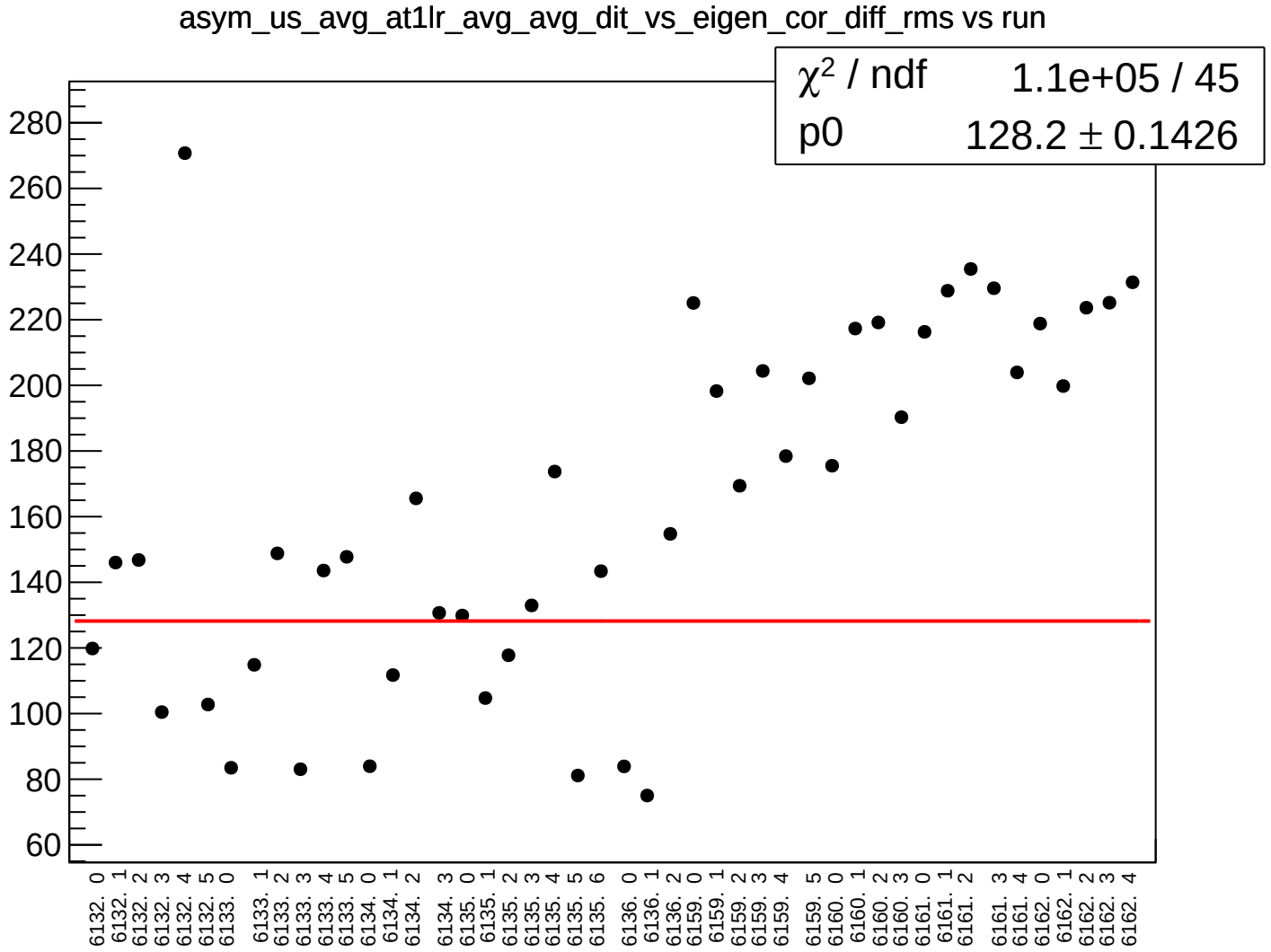
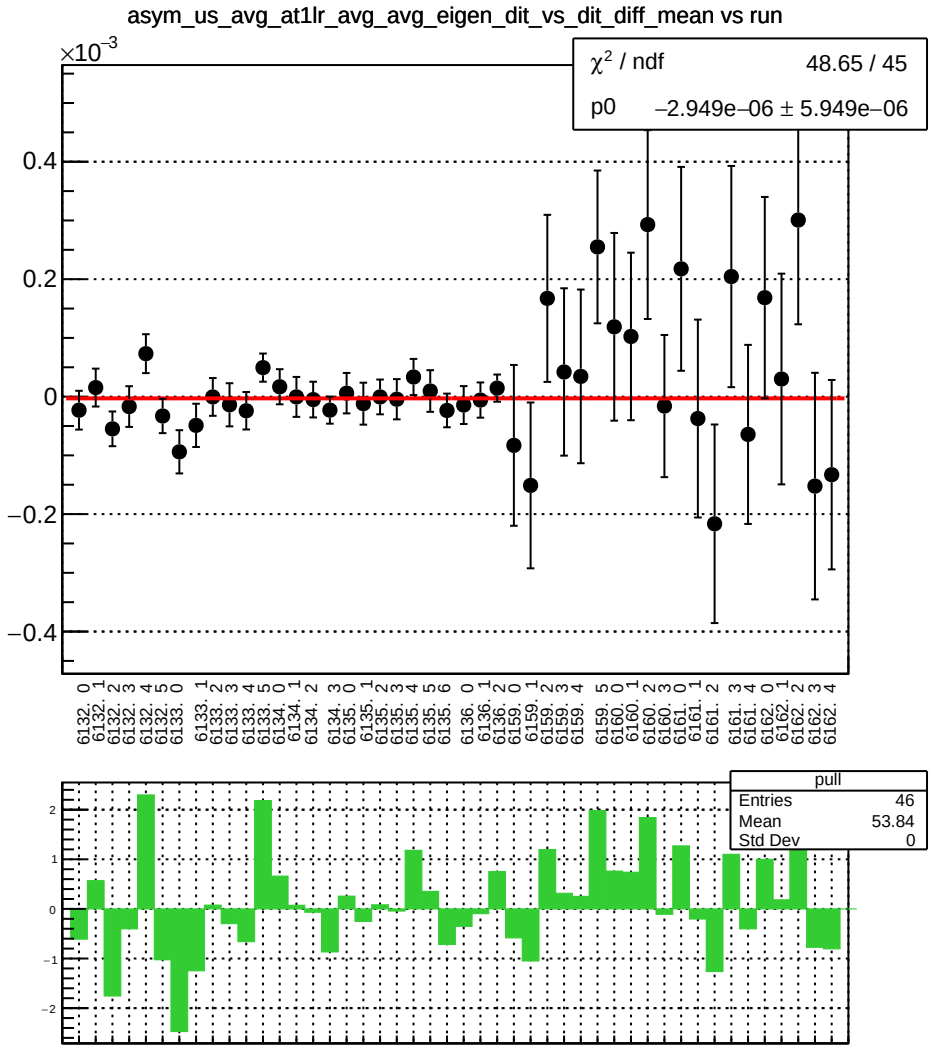
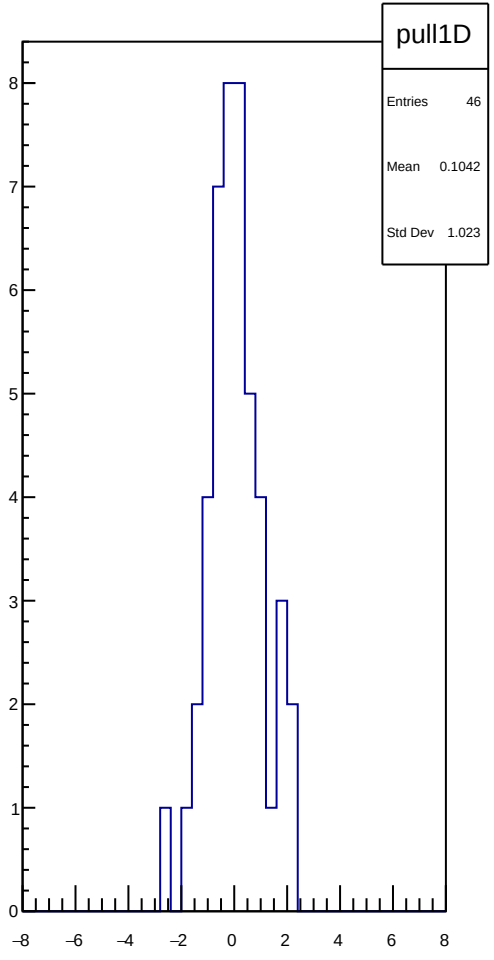
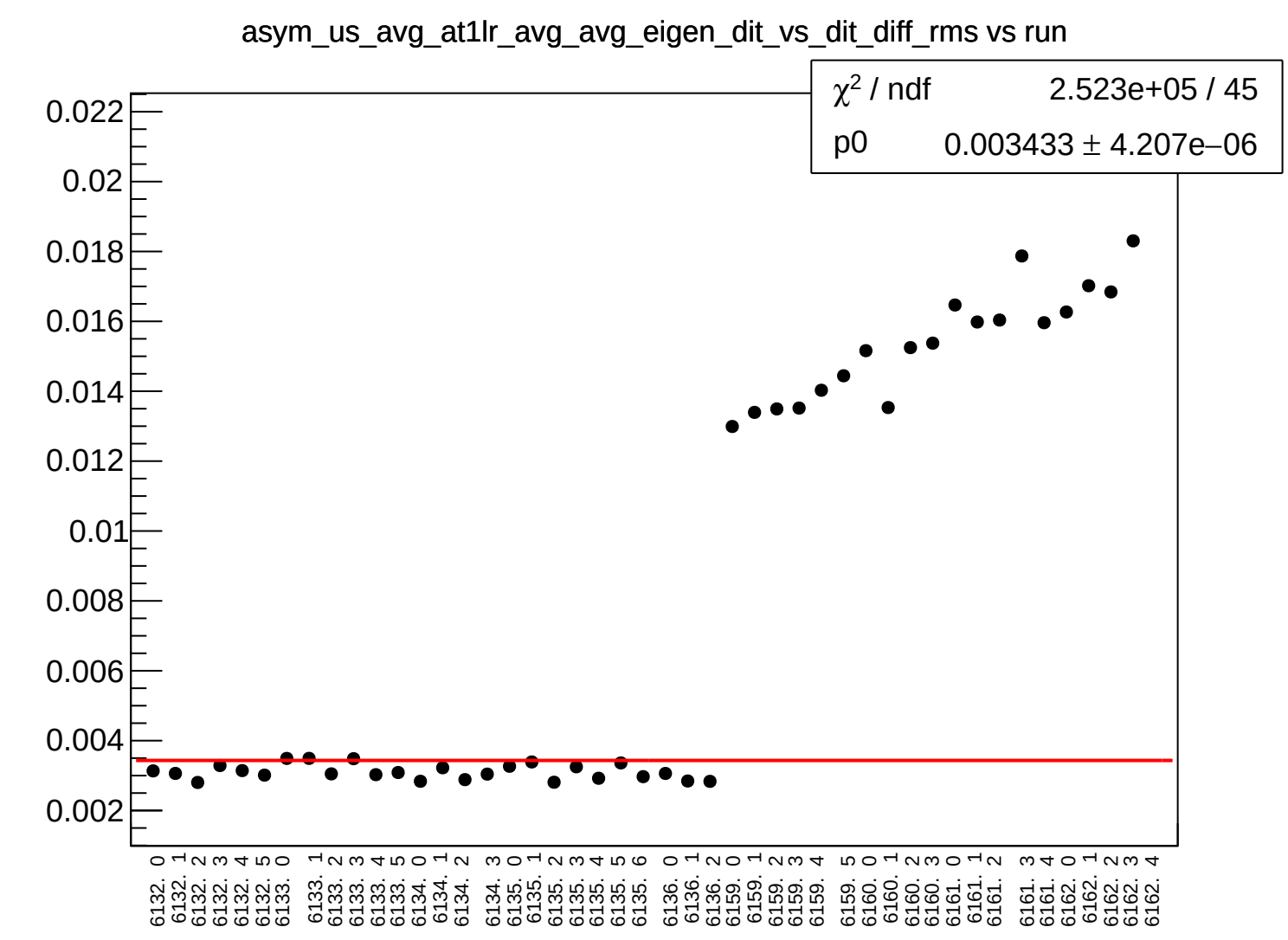
6162. 2
6162. 3
6162. 4

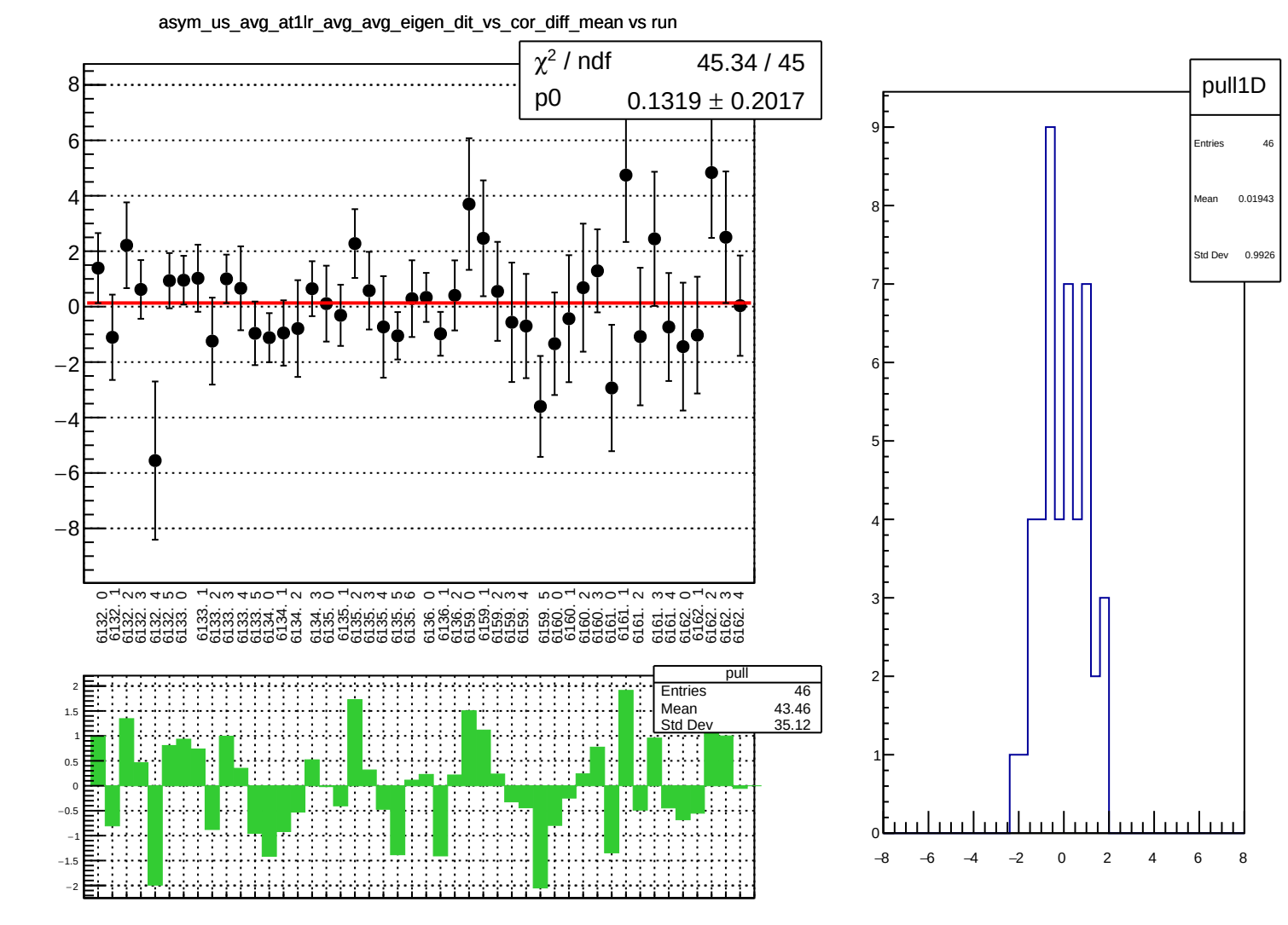

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.34 / 45
p0 0.1319 ± 0.2017
pull
Entries 46
Mean 43.46
Std Dev 35.13
pull1D
Entries 46
Mean 0.01942
Std Dev 0.9926

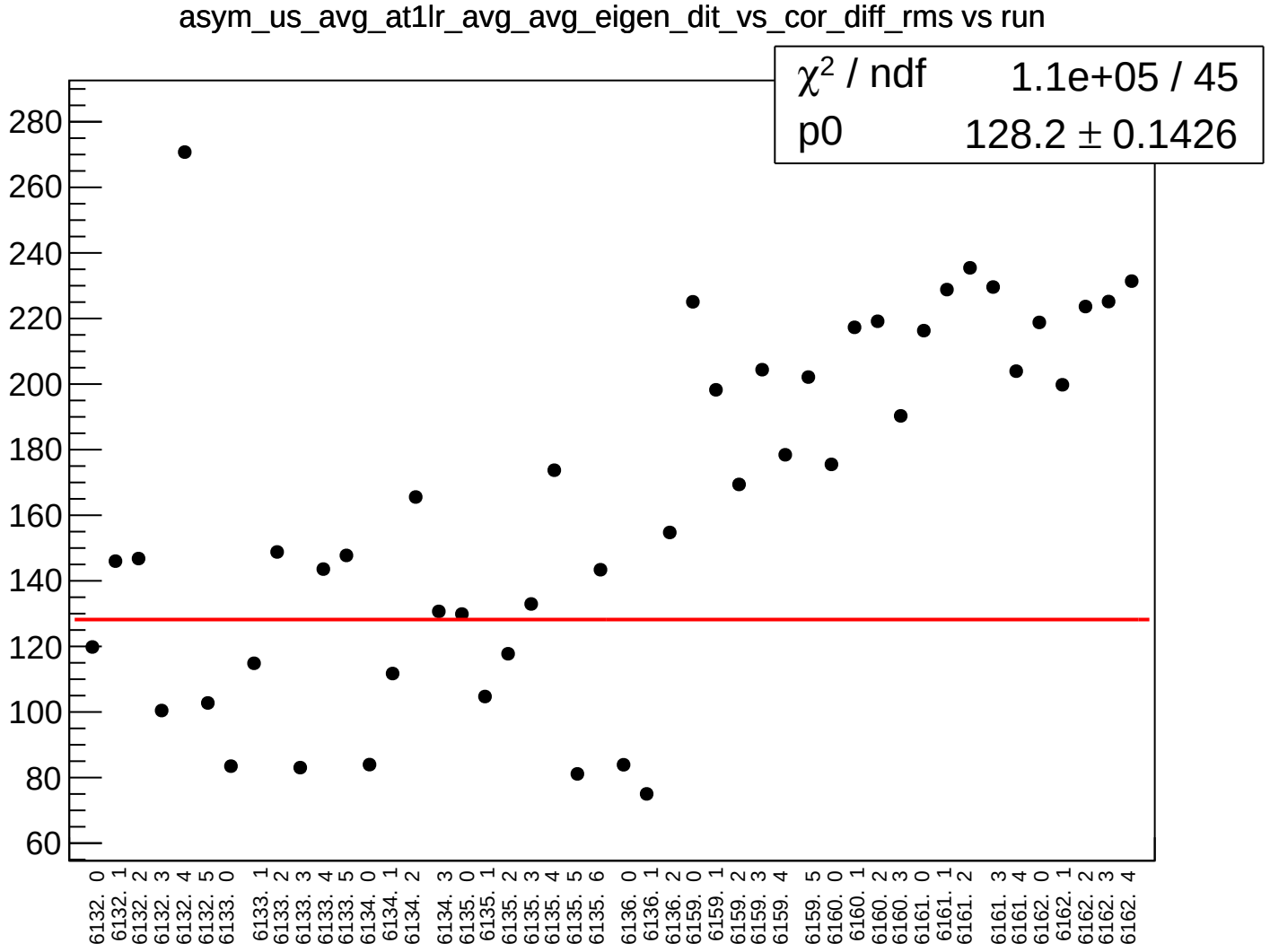

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.1e+05 / 45
p0 128.2 ± 0.1426
280
260
240
220
200
180
160
140
120
100
80
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 48.65 / 45
p0 −2.949e−06 ± 5.949e−06
0.4
0.2
0
−0.2
−0.4
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 53.84
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.1042
Std Dev 1.023
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.523e+05 / 45
p0 0.003433 ± 4.207e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 45.34 / 45
p0 0.1319 ± 0.2017
pull
Entries 46
Mean 43.46
Std Dev 35.12
pull1D
Entries 46
Mean 0.01943
Std Dev 0.9926


asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.1e+05 / 45
p0 128.2 ± 0.1426
280
260
240
220
200
180
160
140
120
100
80
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
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6160. 2
6160. 3
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6161. 2
6161. 3
6161. 4
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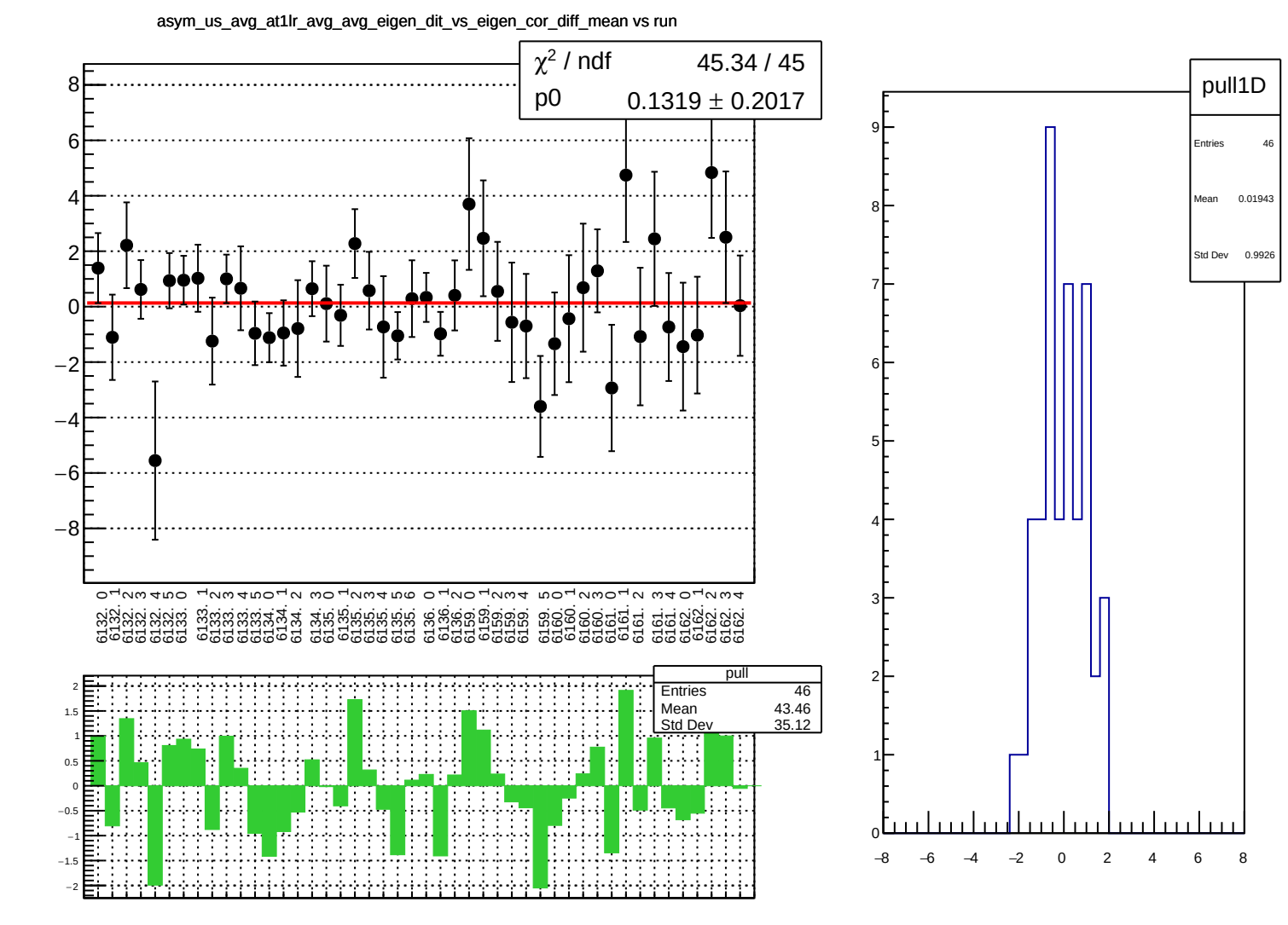
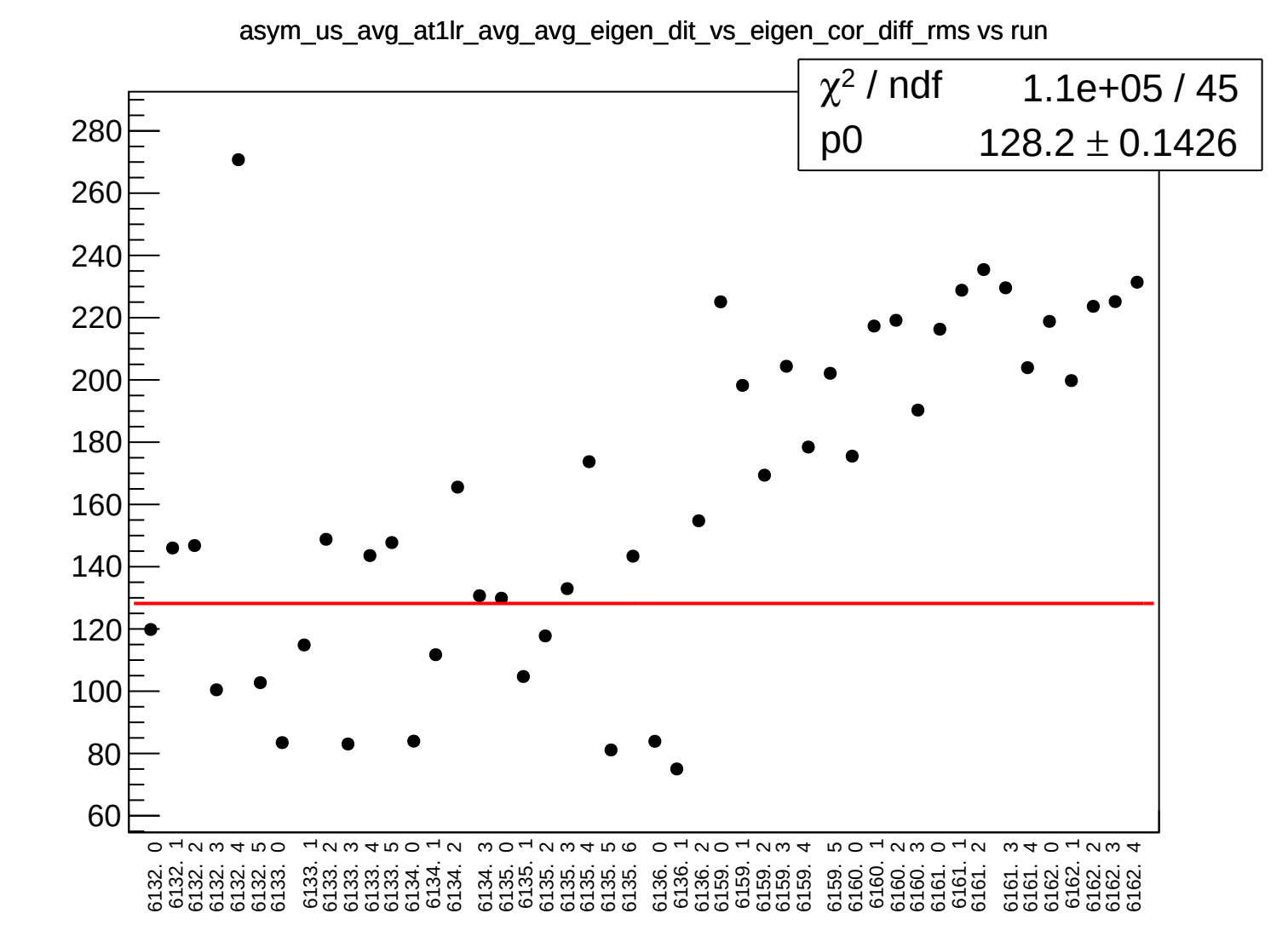
6162. 3
6162. 4


asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.34 / 45
p0 0.1319 ± 0.2017
pull
Entries 46
Mean 43.46
Std Dev 35.12
pull1D
Entries 46
Mean 0.01943
Std Dev 0.9926


asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.1e+05 / 45
p0 128.2 ± 0.1426
280
260
240
220
200
180
160
140
120
100
80
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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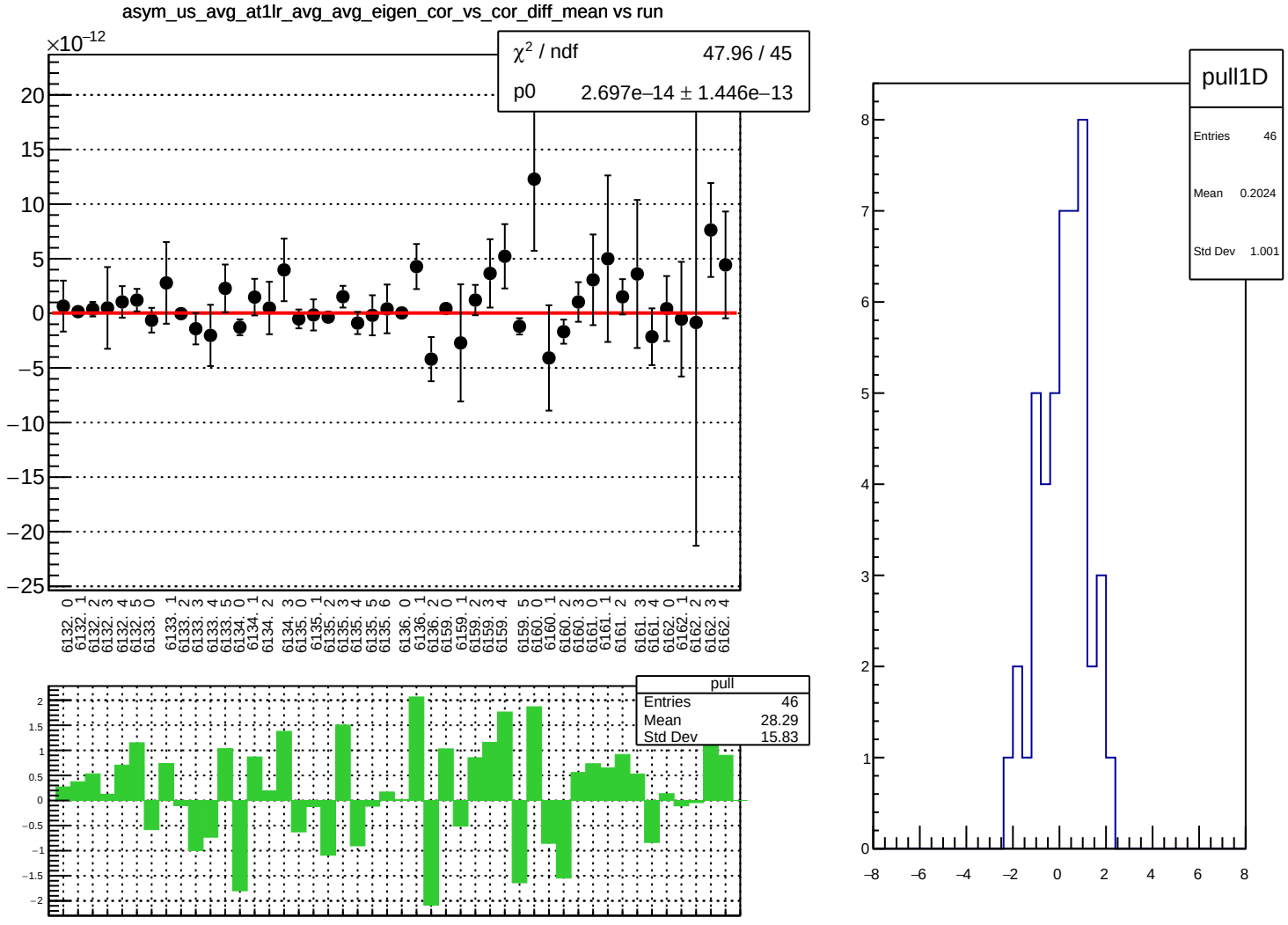
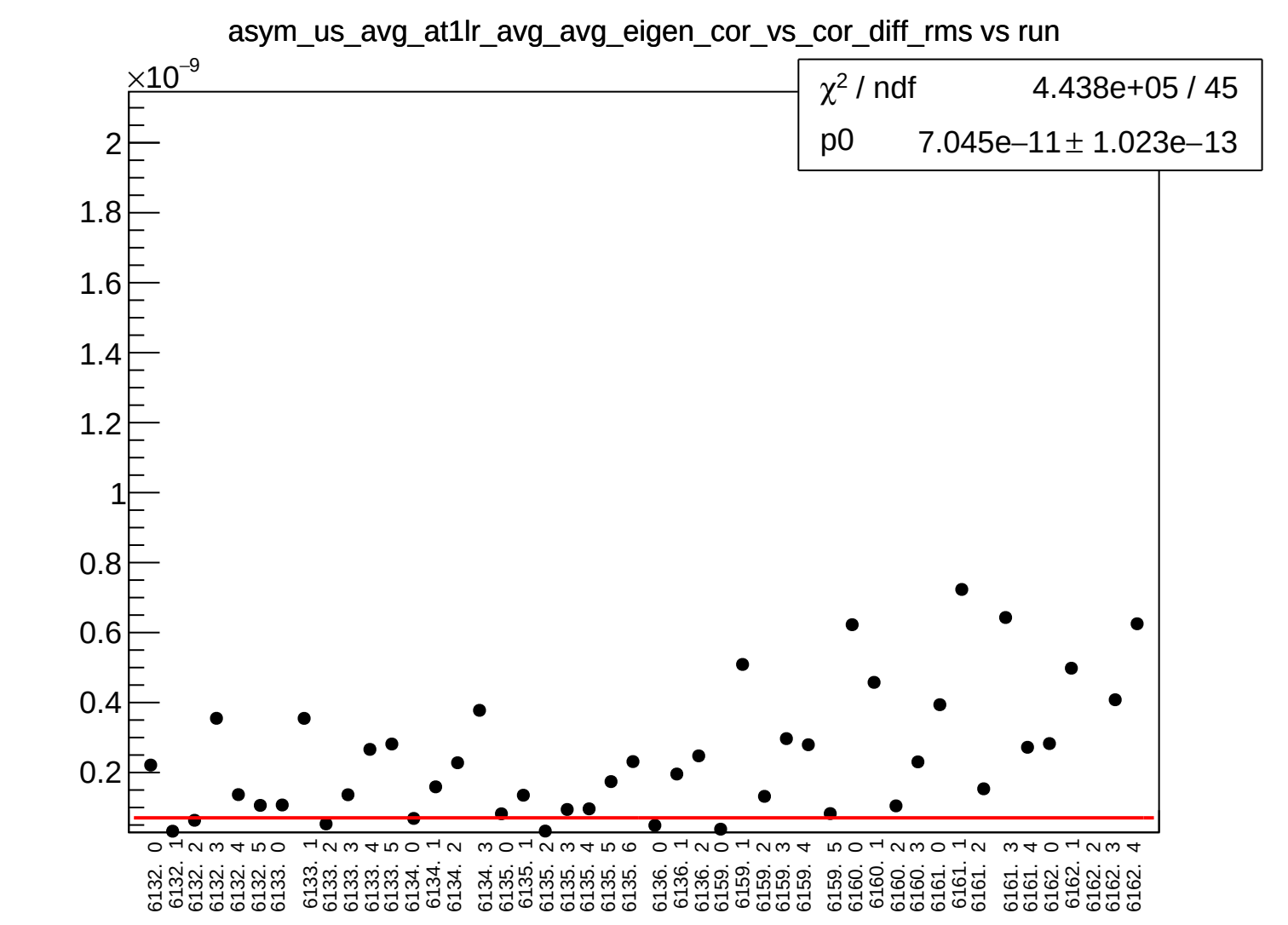
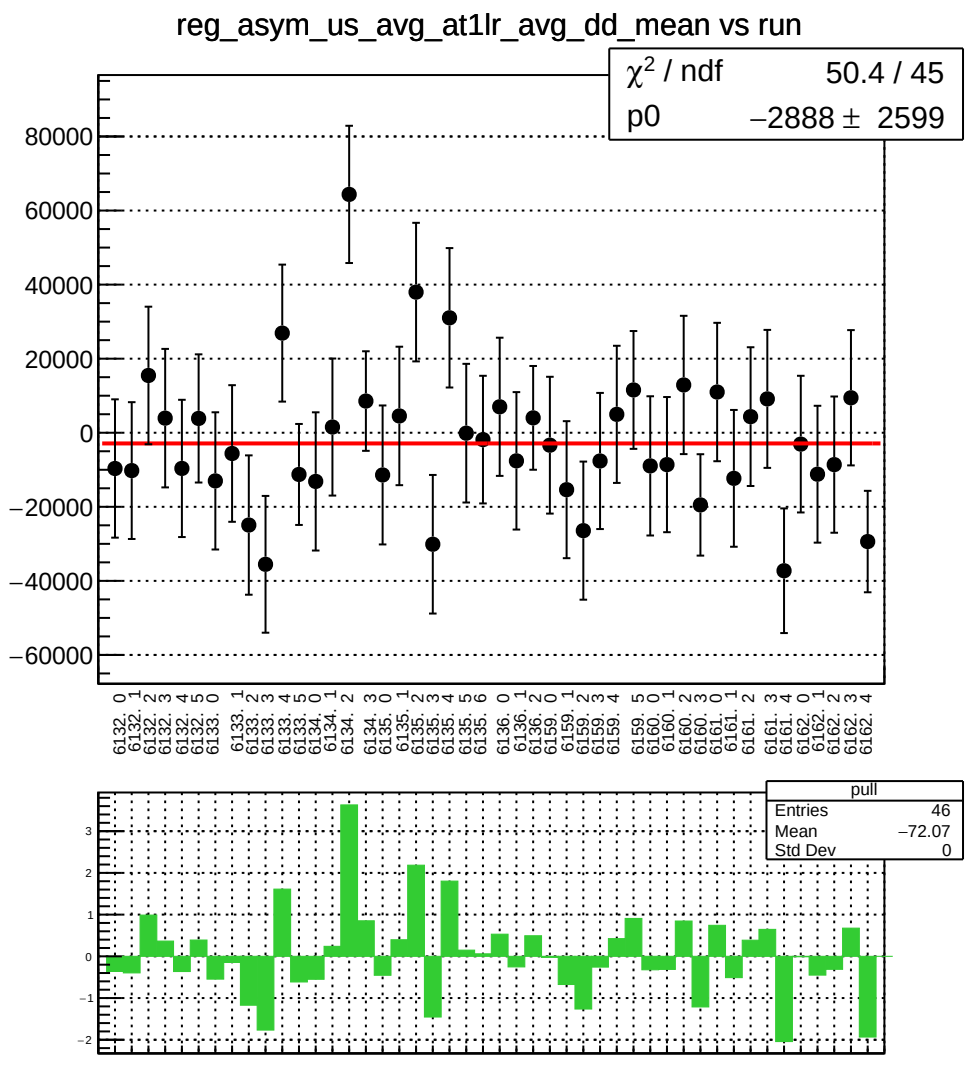
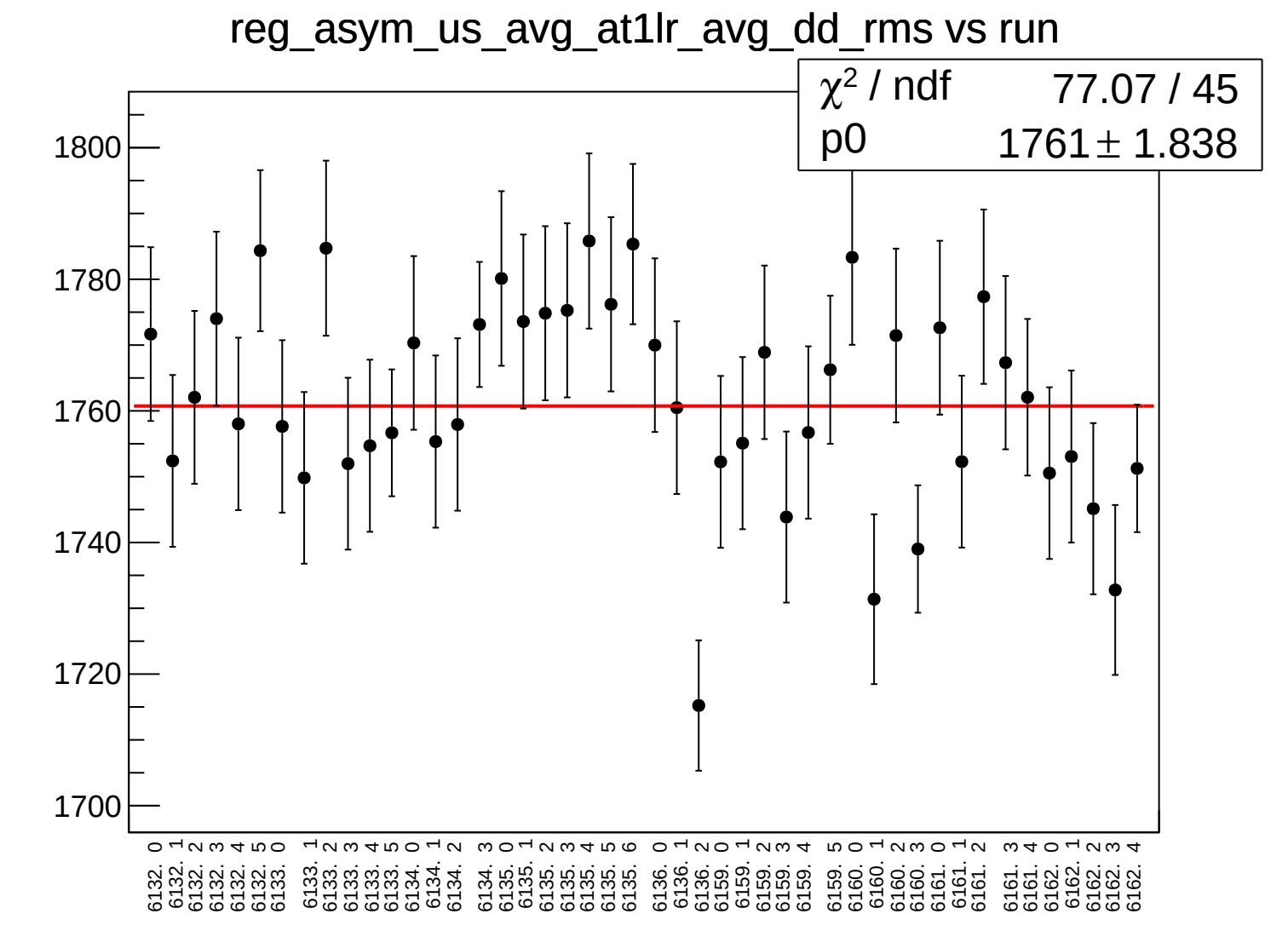
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 47.96 / 45
p0 2.697e−14 ± 1.446e−13
pull
Entries 46
Mean 28.29
Std Dev 15.83
pull1D
Entries 46
Mean 0.2024
Std Dev 1.001


asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.438e+05 / 45
p0 7.045e−11 ± 1.023e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 50.4 / 45
p0 −2888 ± 2599
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −72.07
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.01978
Std Dev 1.047
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 77.07 / 45
p0 1761 ± 1.838
1800
1780
1760
1740
1720
1700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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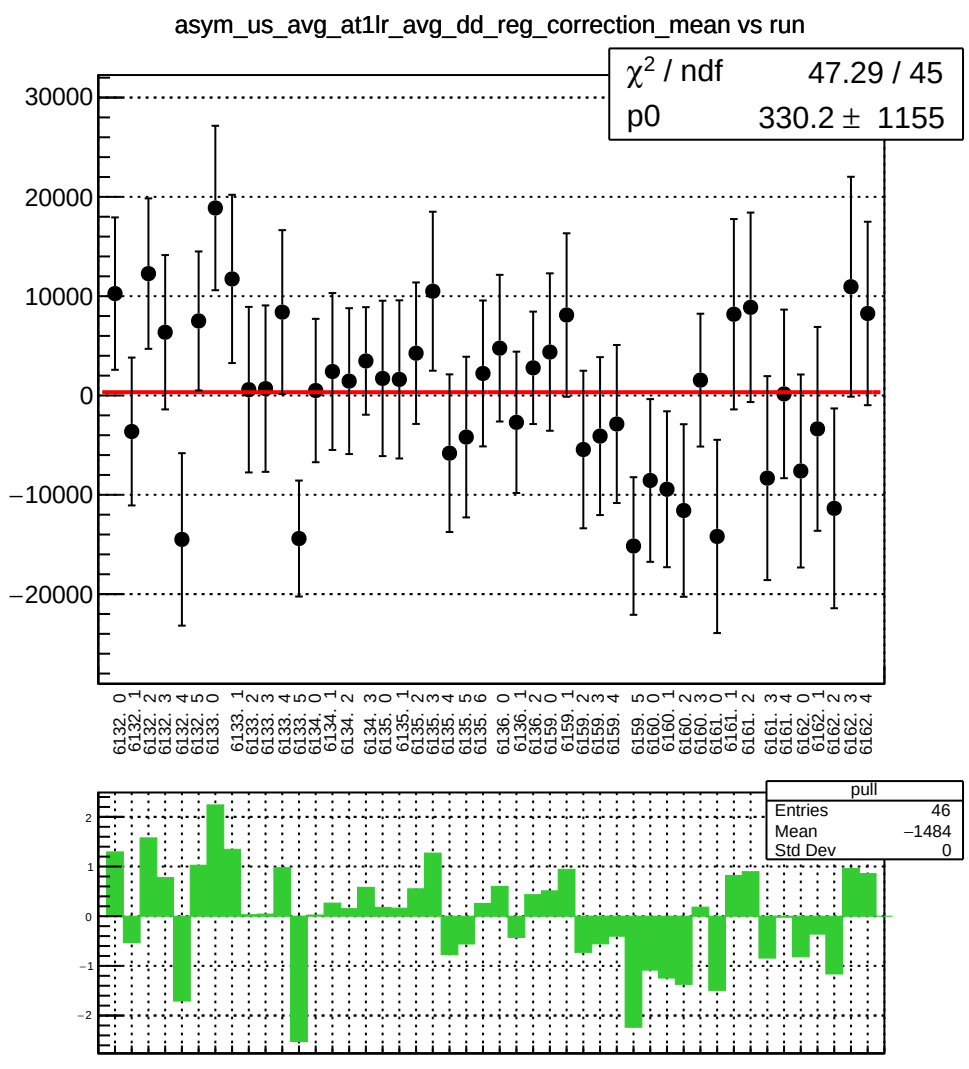
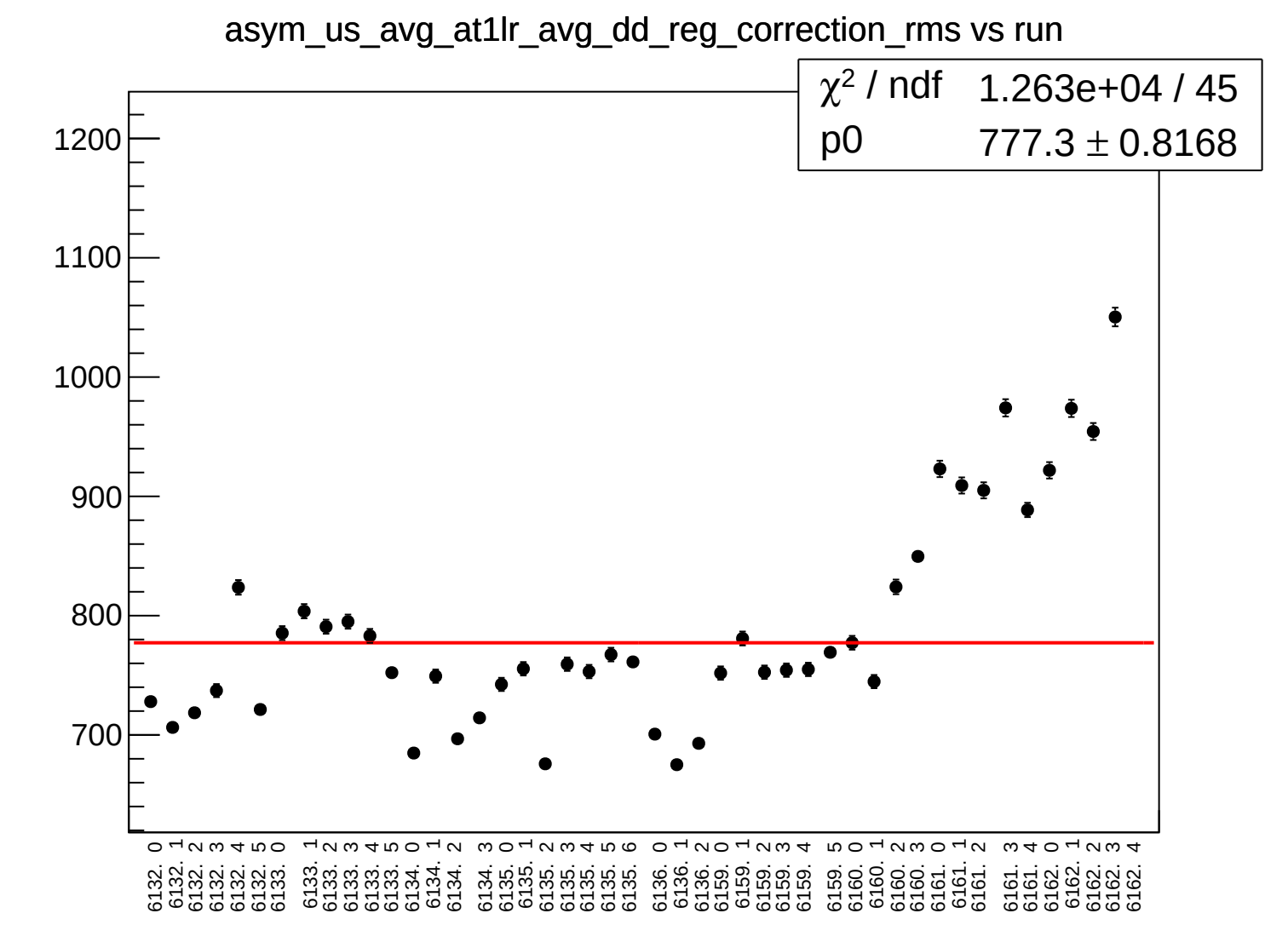
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 47.29 / 45
p0 330.2 ± 1155
30000
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1484
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.002635
Std Dev 1.014
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.263e+04 / 45
p0 777.3 ± 0.8168
1200
1100
1000
900
800
700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
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6135. 6
6136. 0
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6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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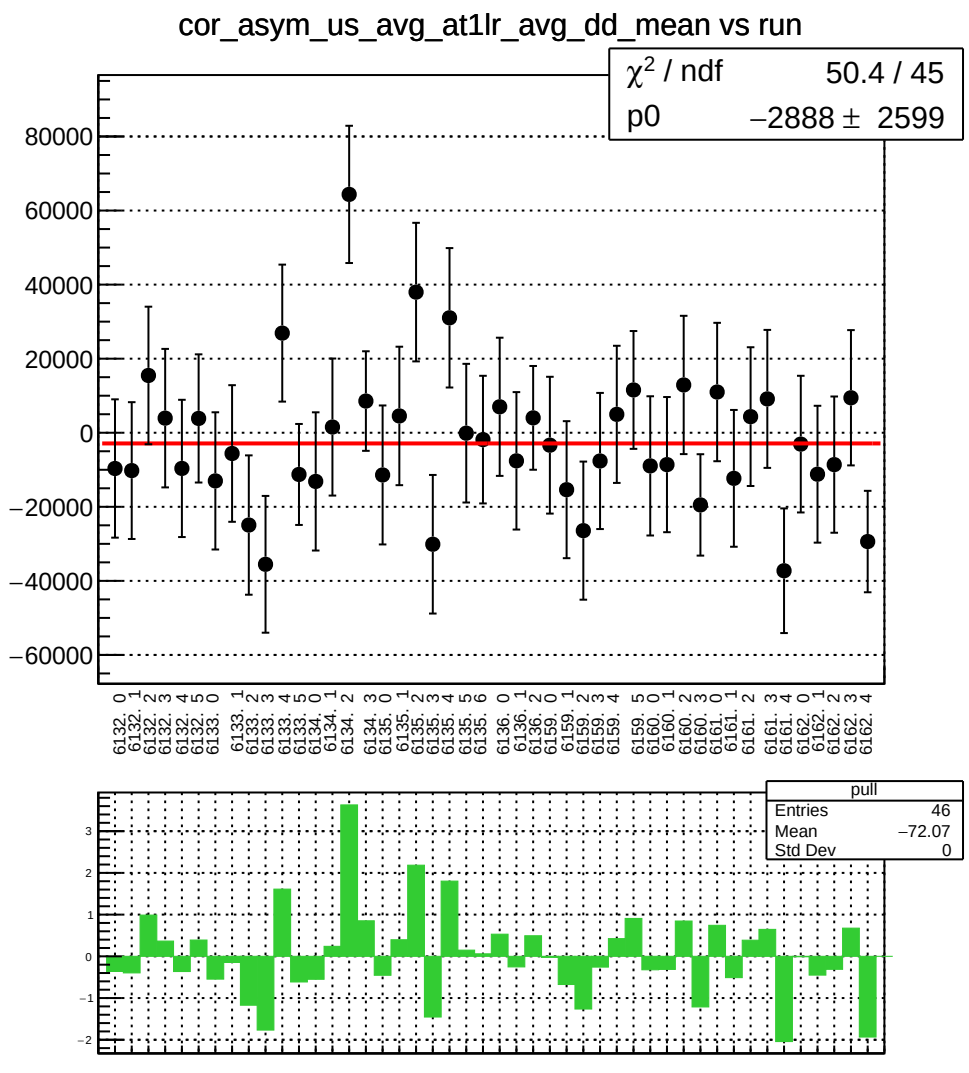
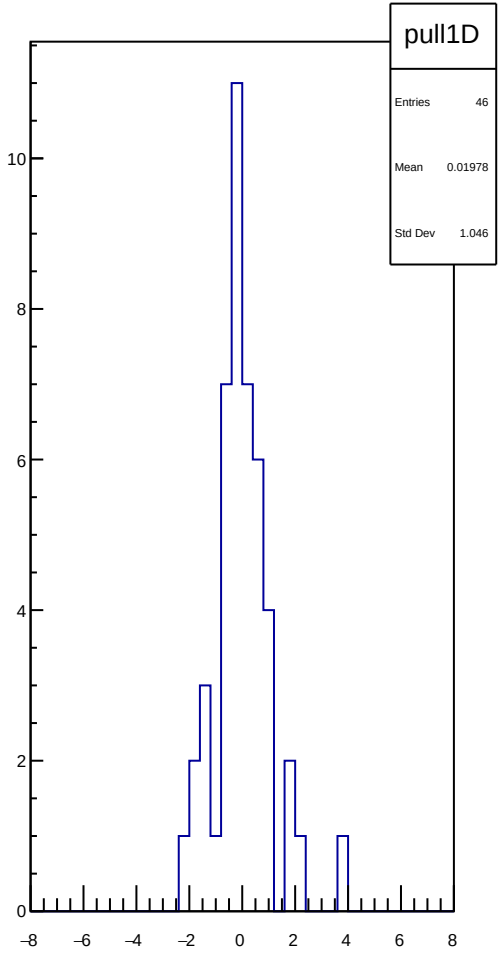
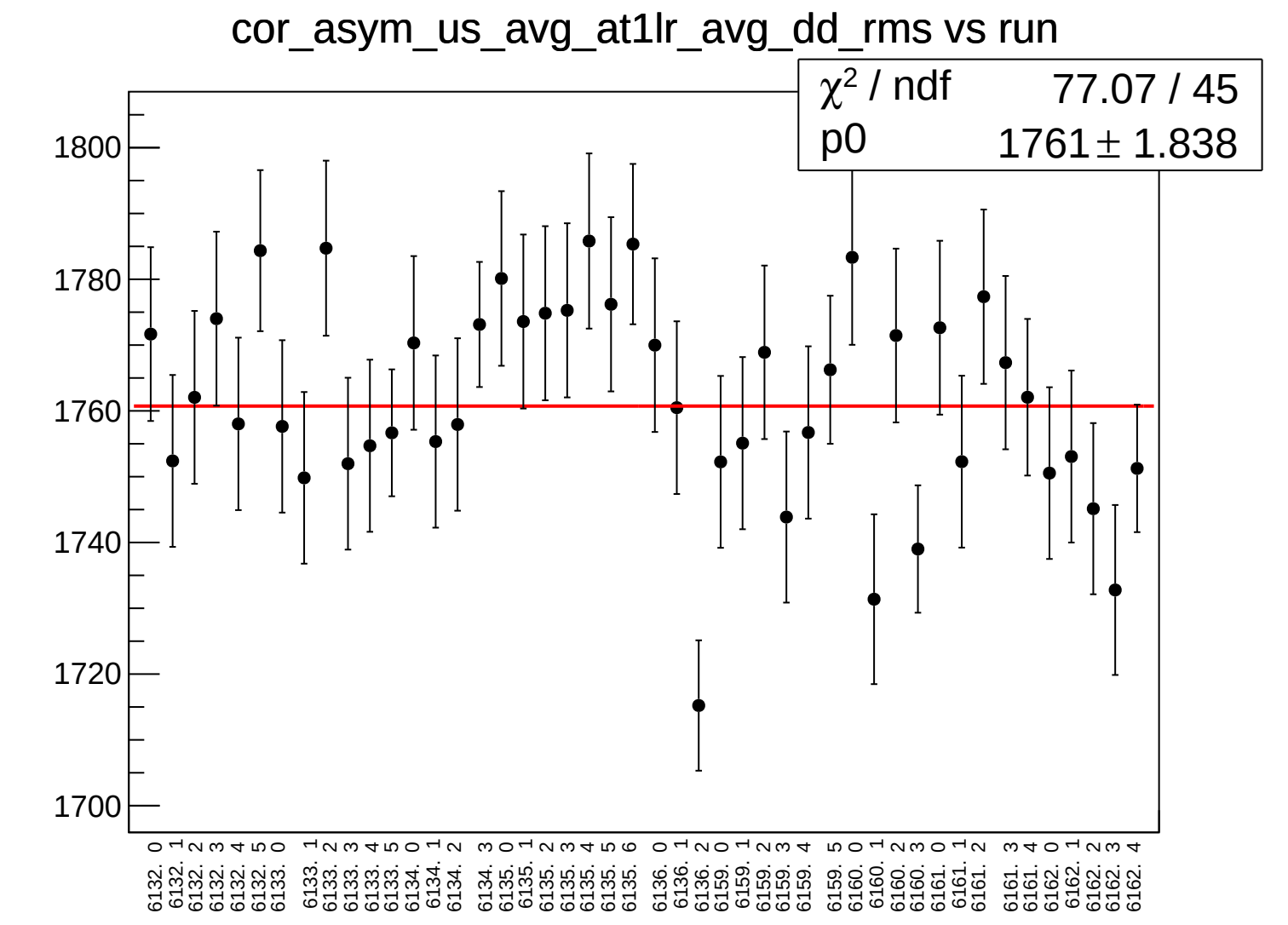
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 50.4 / 45
p0 −2888 ± 2599
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −72.07
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.01978
Std Dev 1.046
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 77.07 / 45
p0 1761 ± 1.838
1800
1780
1760
1740
1720
1700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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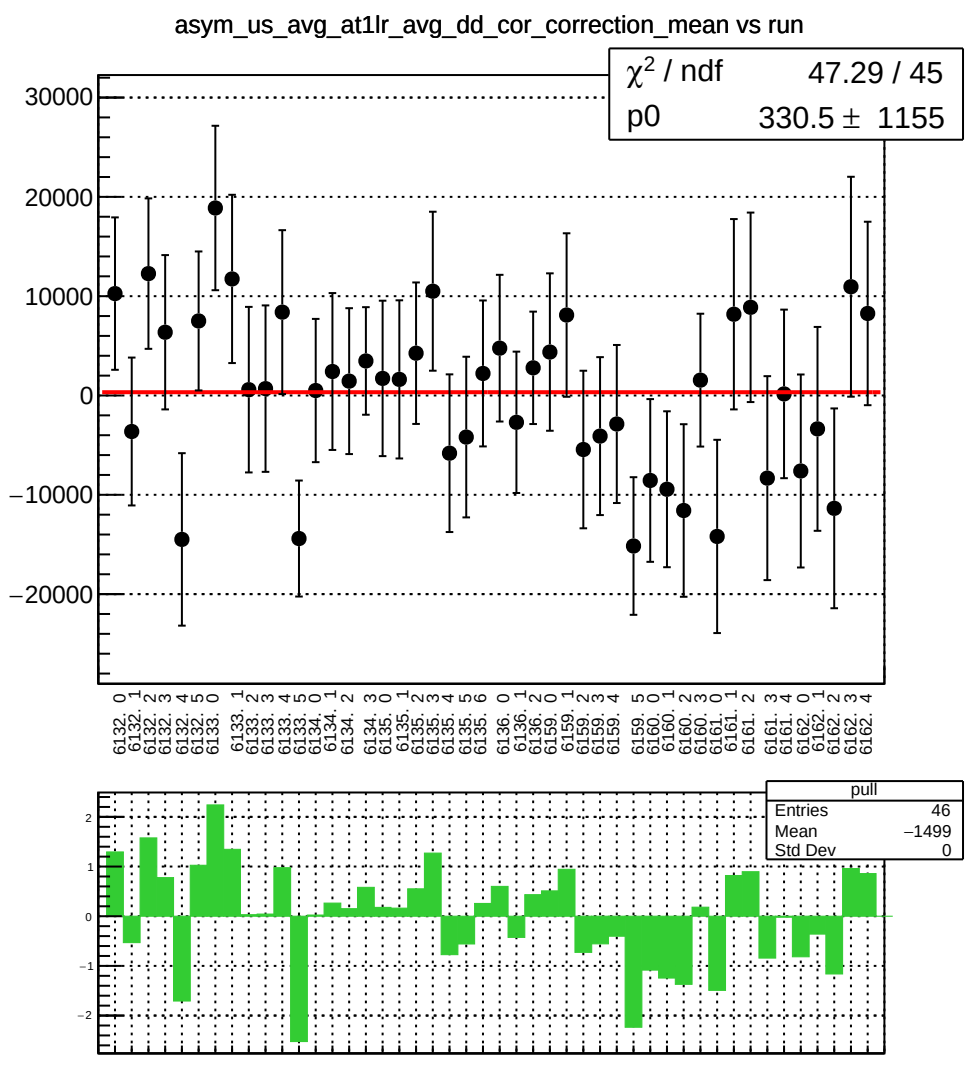
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 47.29 / 45
p0 330.5 ± 1155
30000
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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6135. 4
6135. 5
6135. 6
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6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
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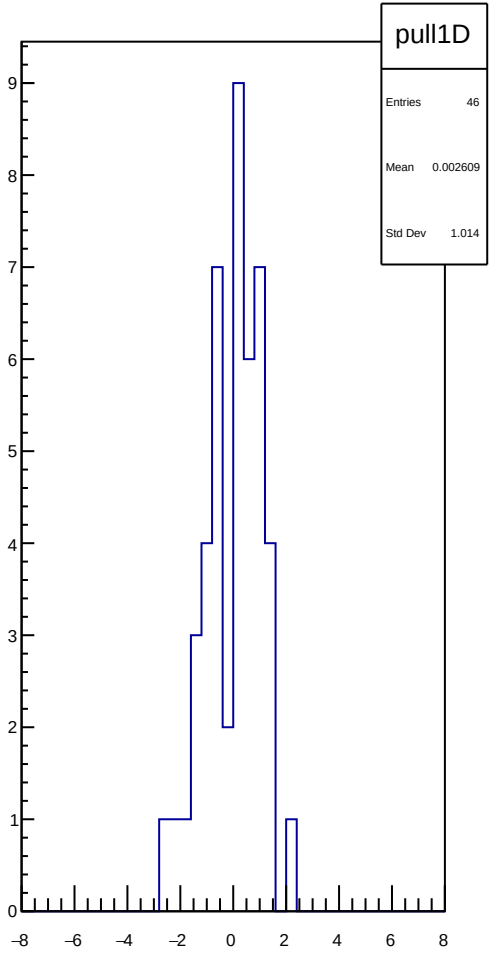
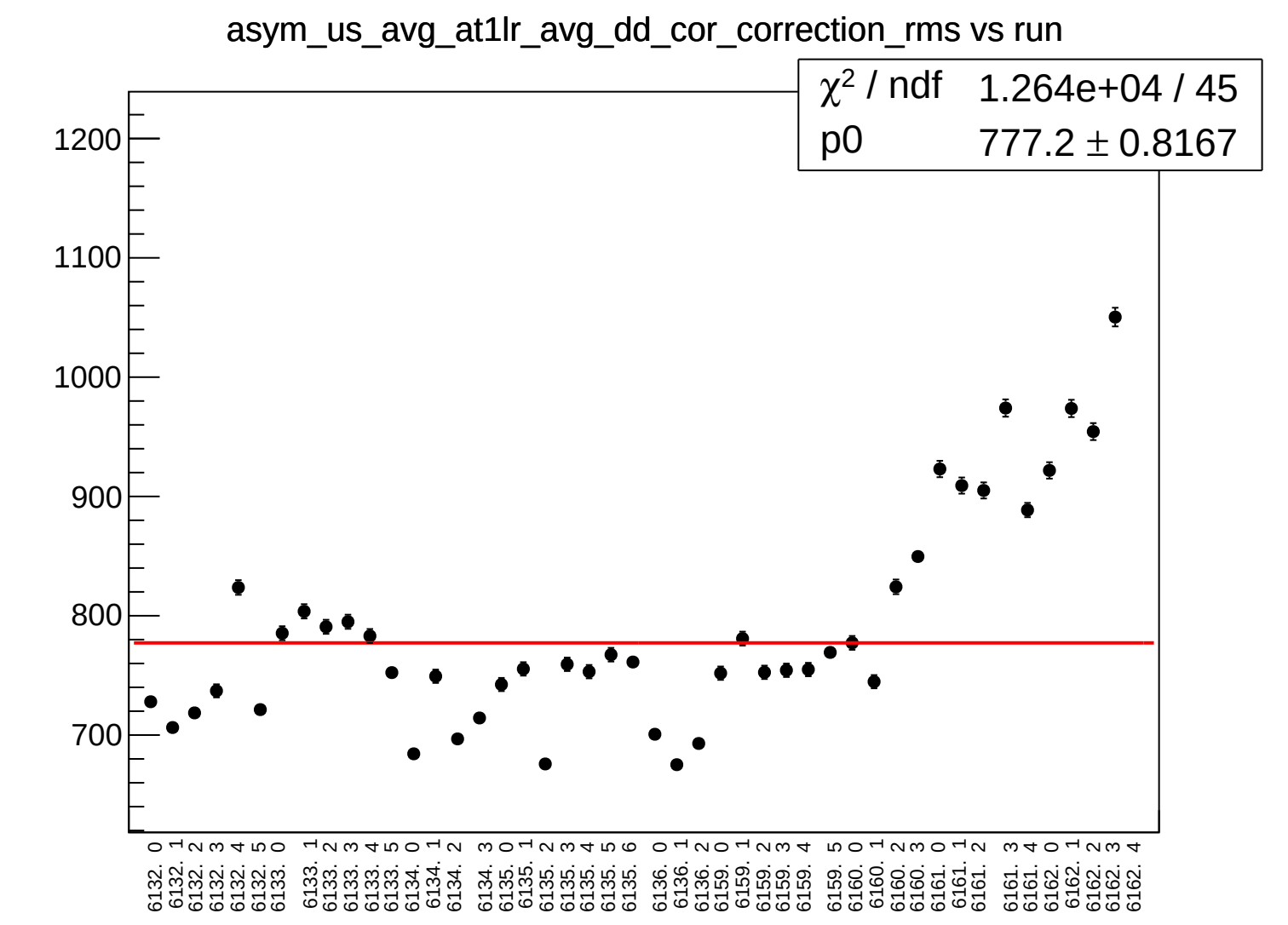
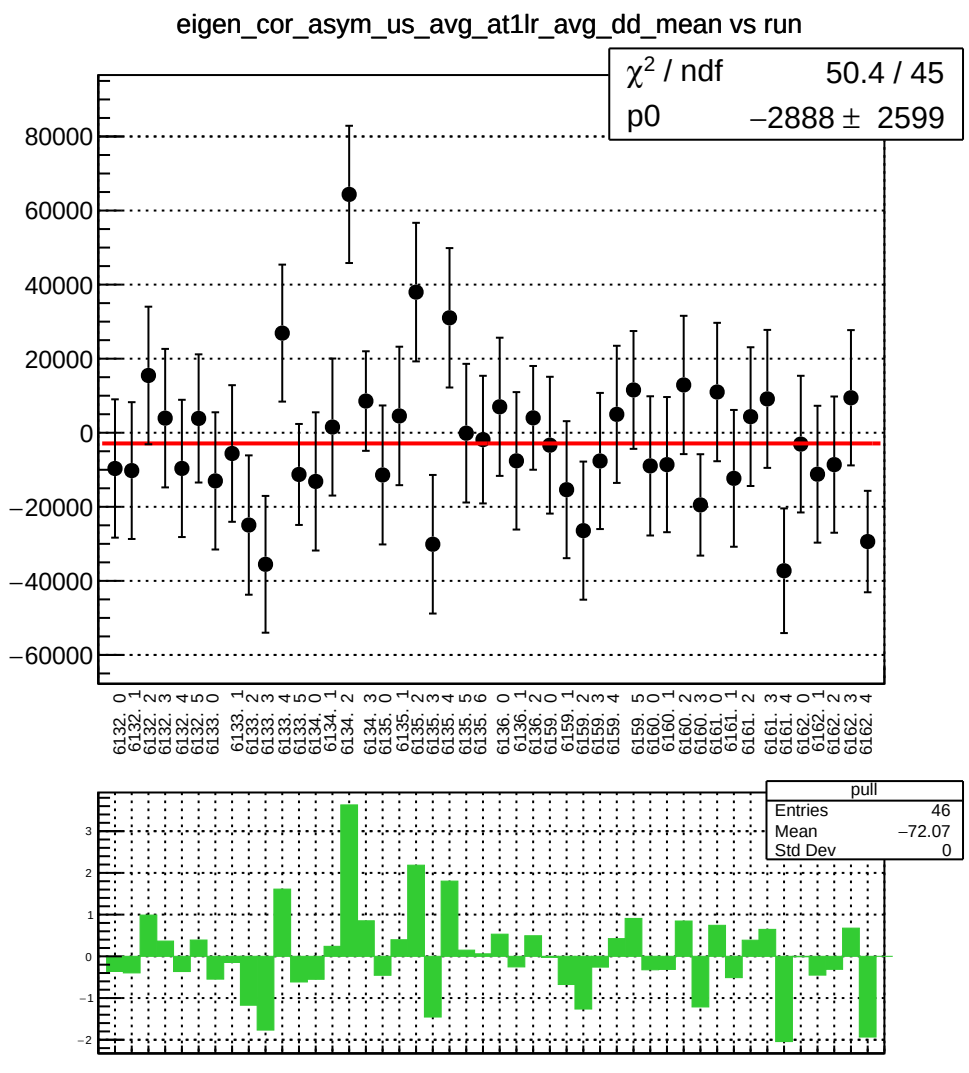
6162. 3
6162. 4
pull
Entries 46
Mean −1499
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.002609
Std Dev 1.014
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.264e+04 / 45
p0 777.2 ± 0.8167
1200
1100
1000
900
800
700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 50.4 / 45
p0 −2888 ± 2599
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
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6135. 6
6136. 0
6136. 1
6136. 2
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6160. 1
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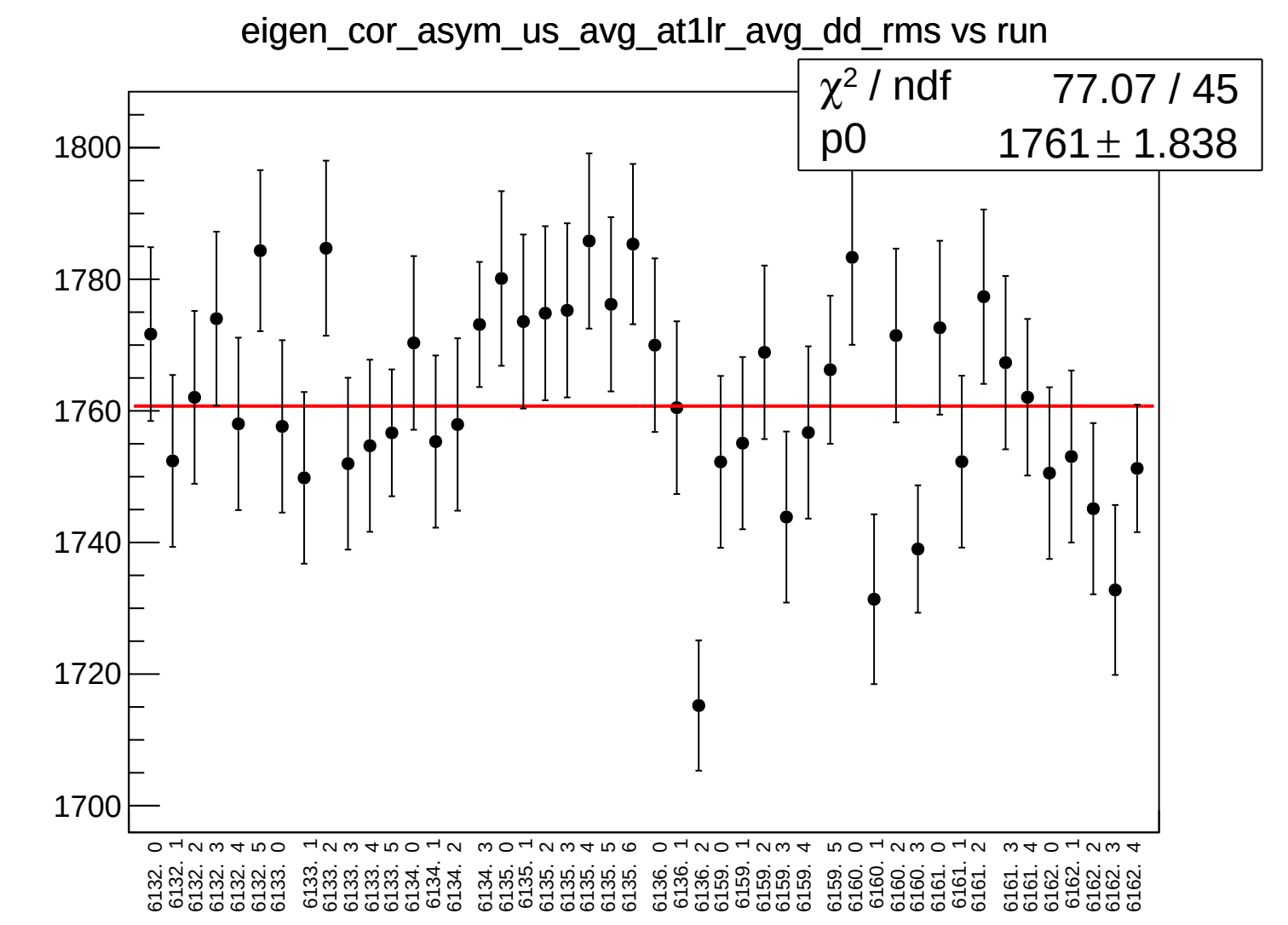
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −72.07
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.01978
Std Dev 1.046
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 77.07 / 45
p0 1761 ± 1.838
1800
1780
1760
1740
1720
1700
6132. 0
6132. 1
6132. 2
6132. 3
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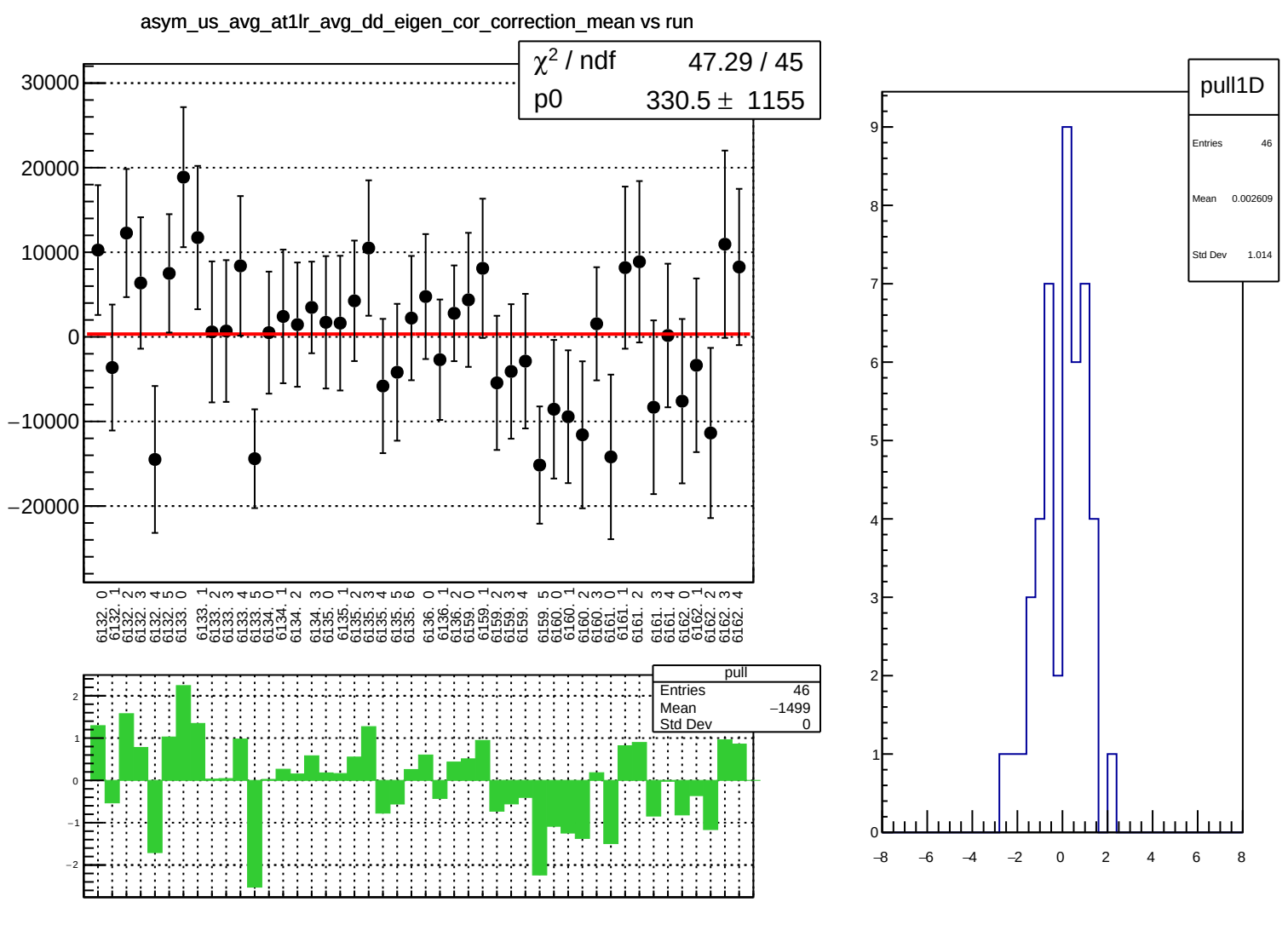
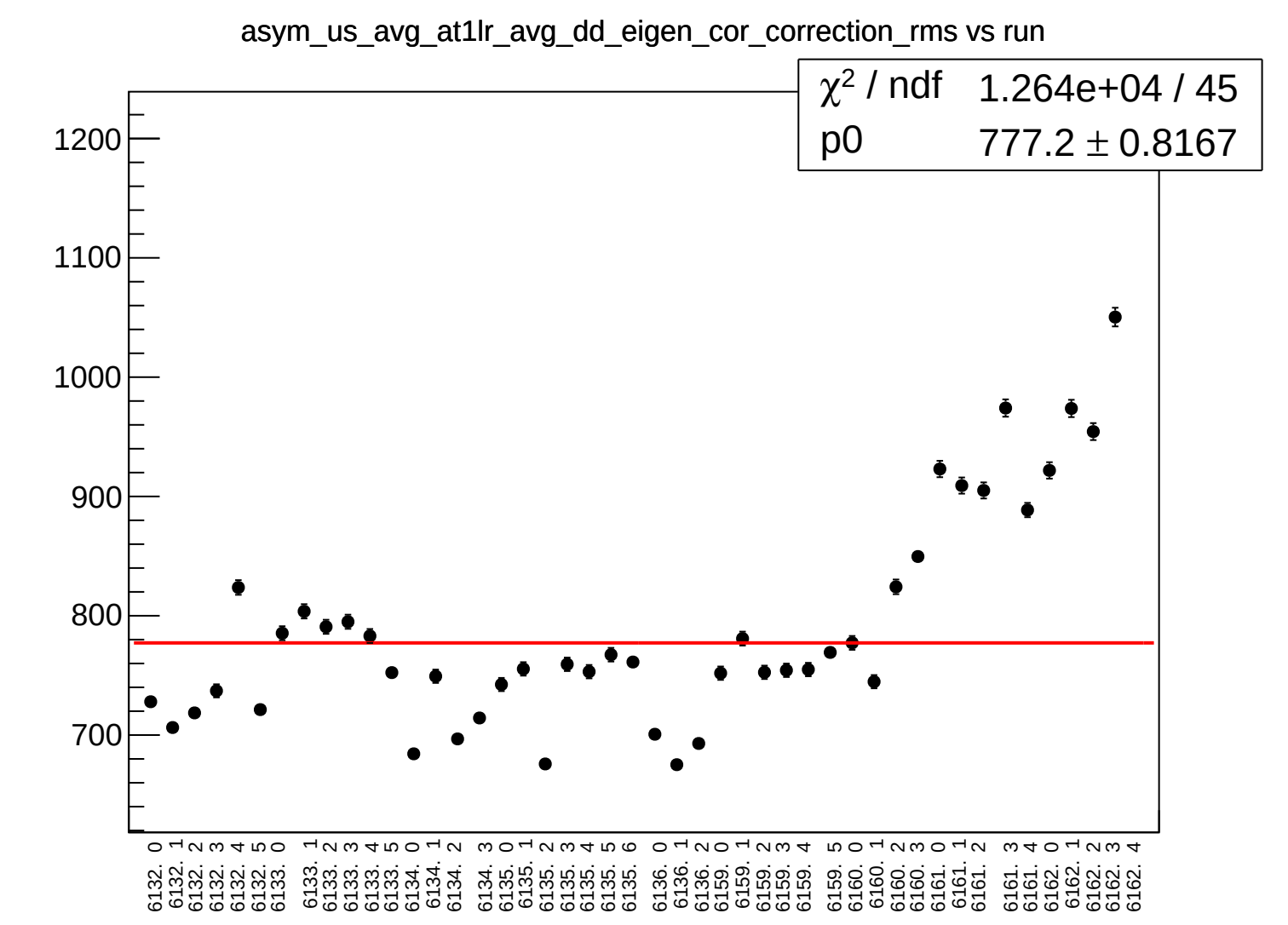
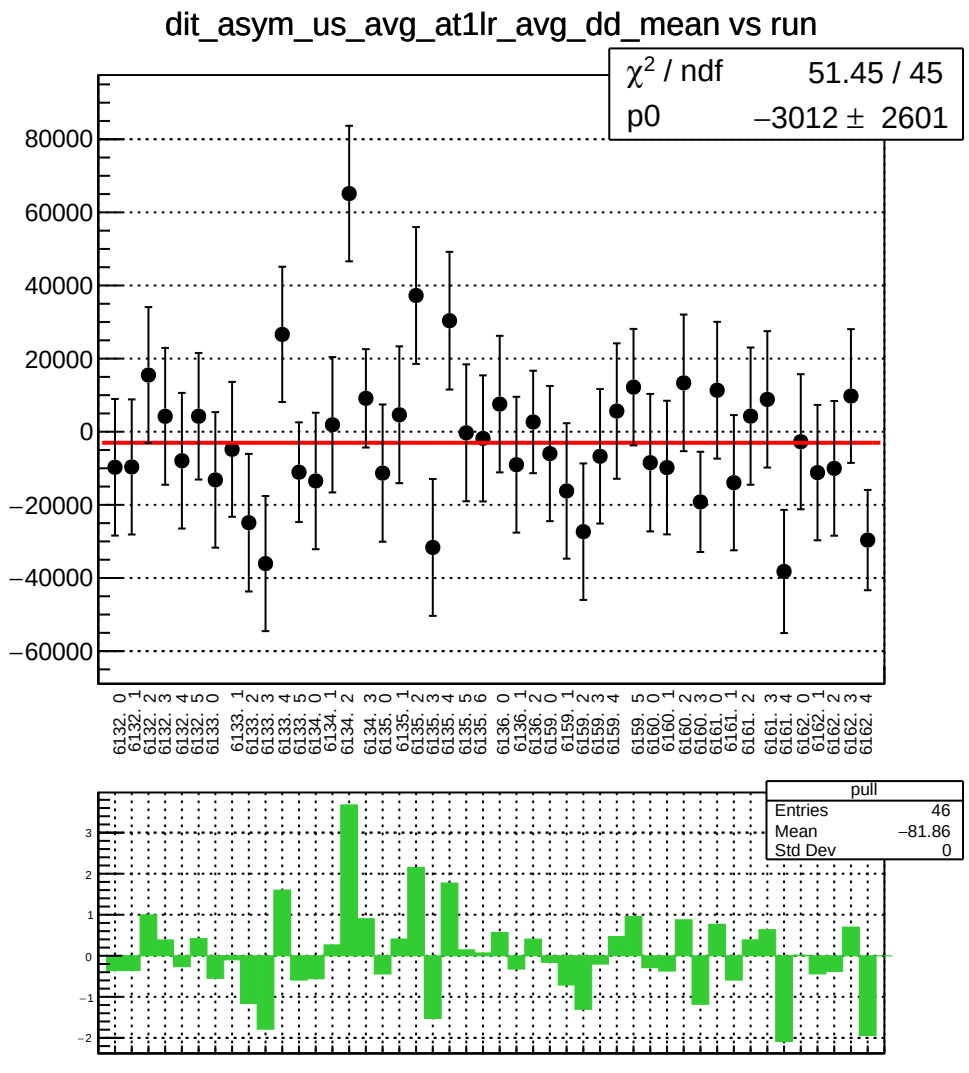
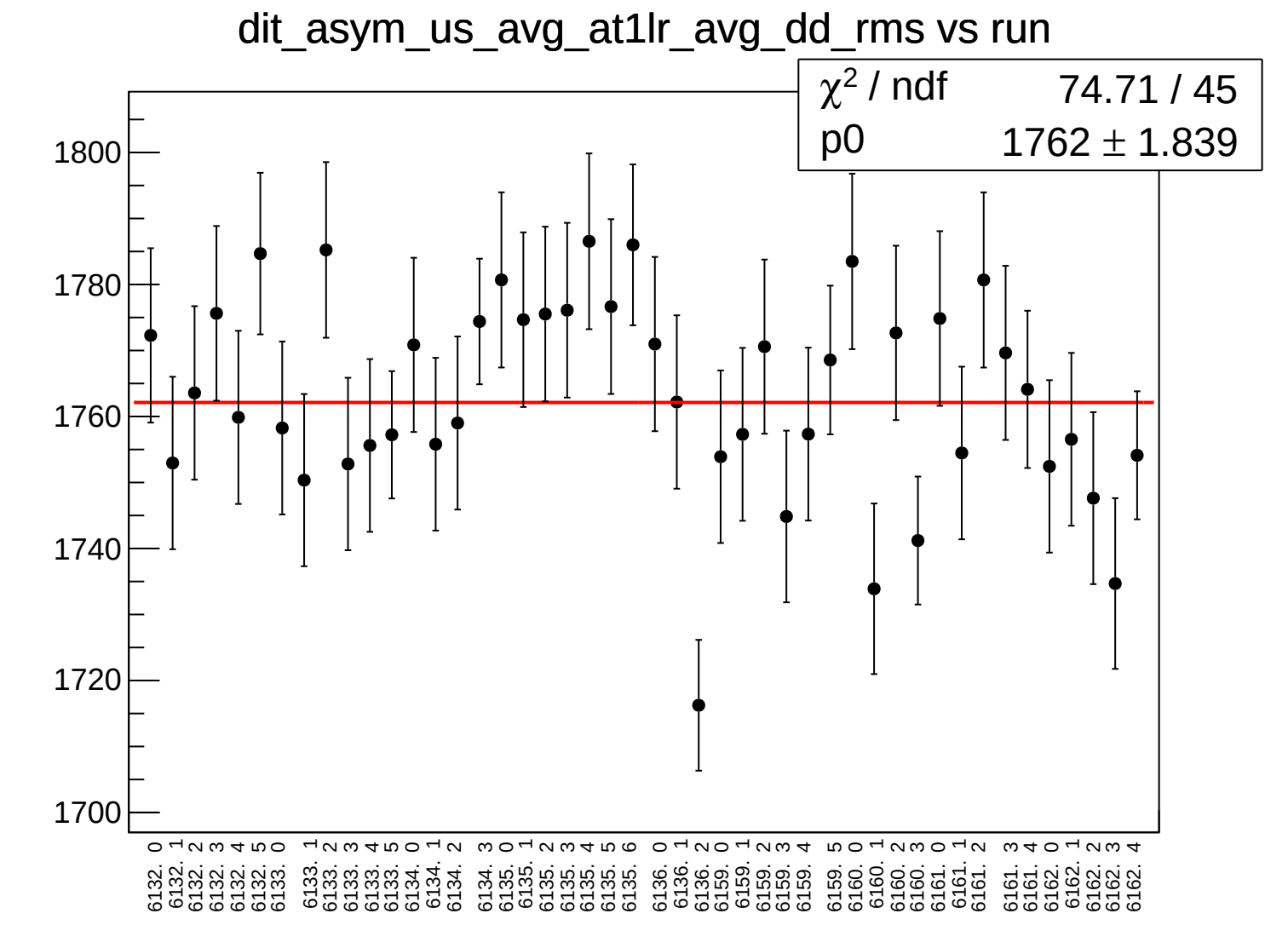
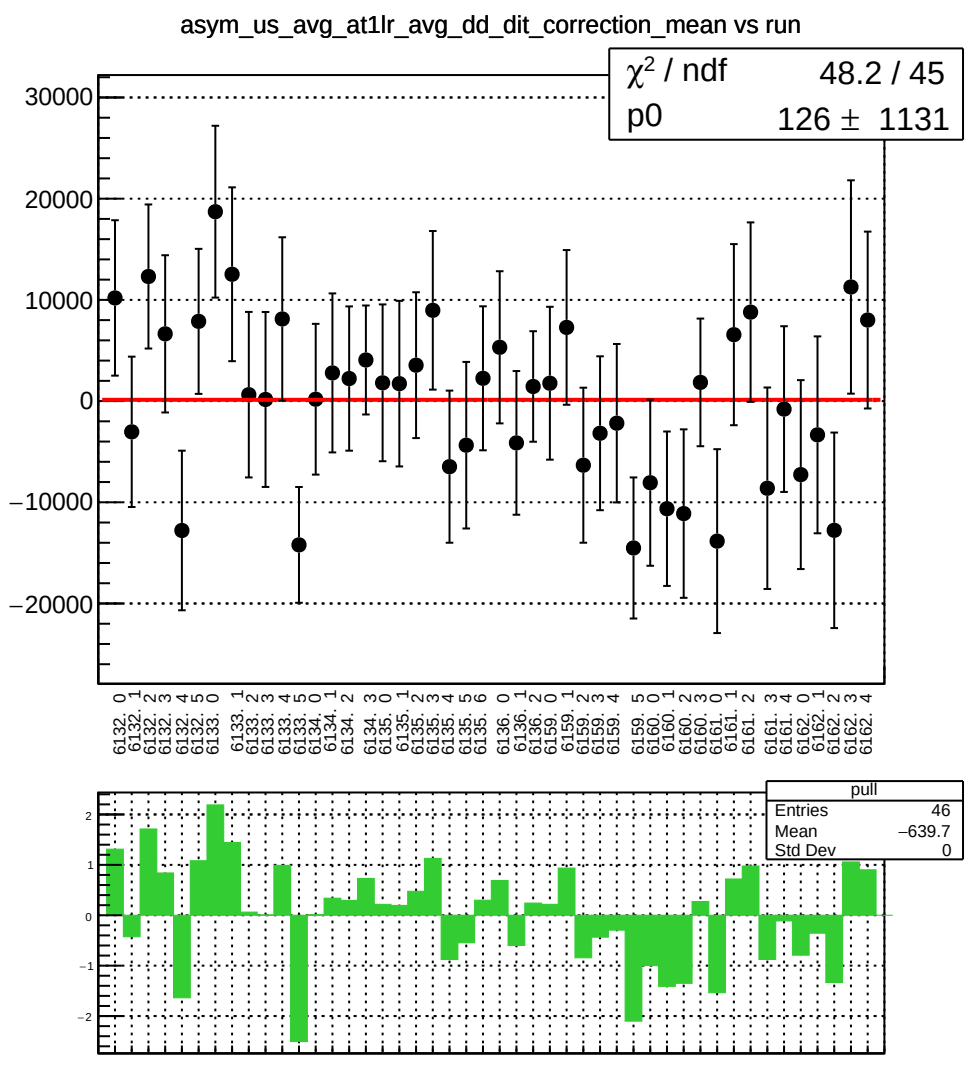
6162. 4

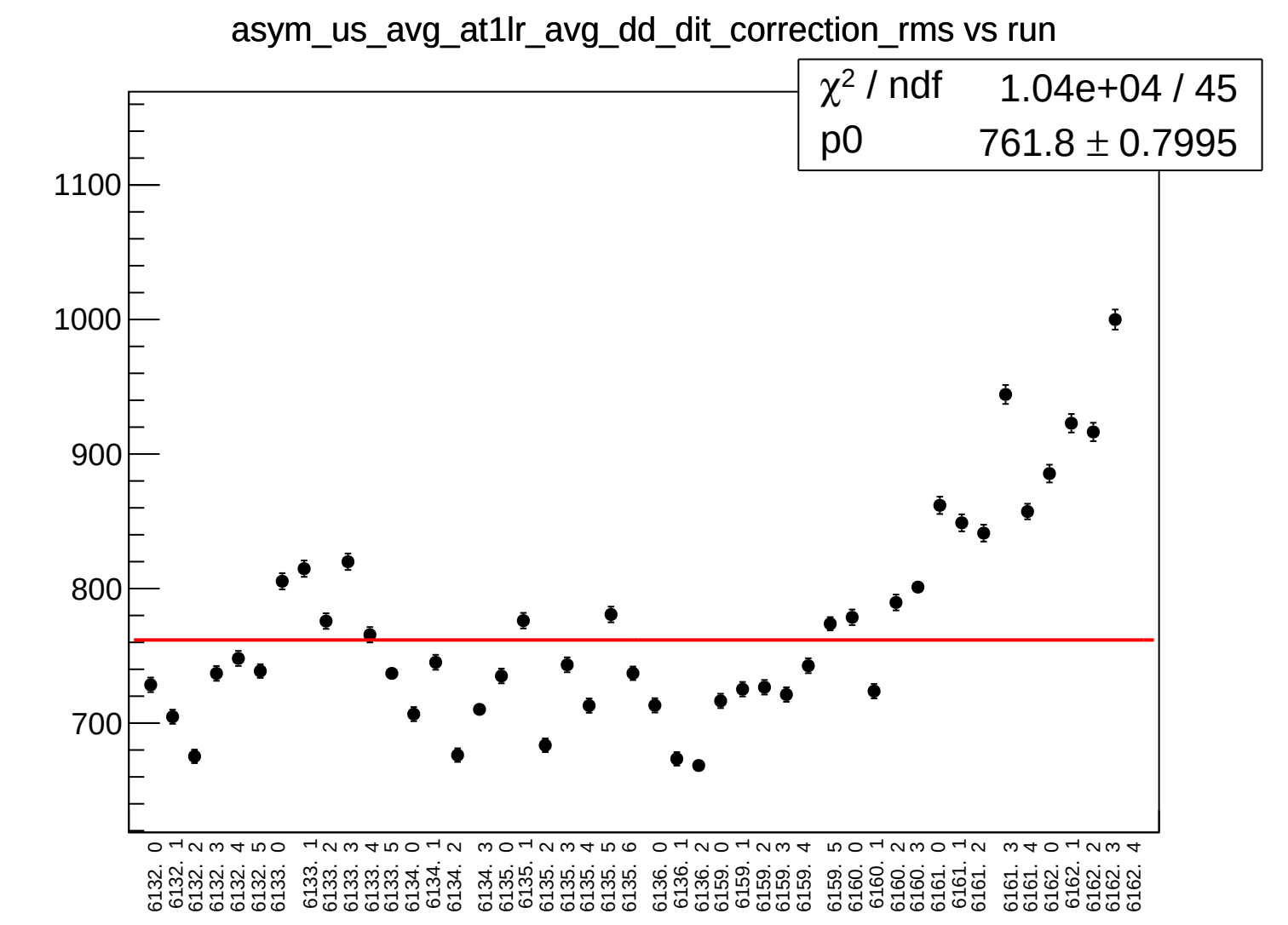

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 47.29 / 45
p0 330.5 ± 1155
30000
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1499
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.002609
Std Dev 1.014
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

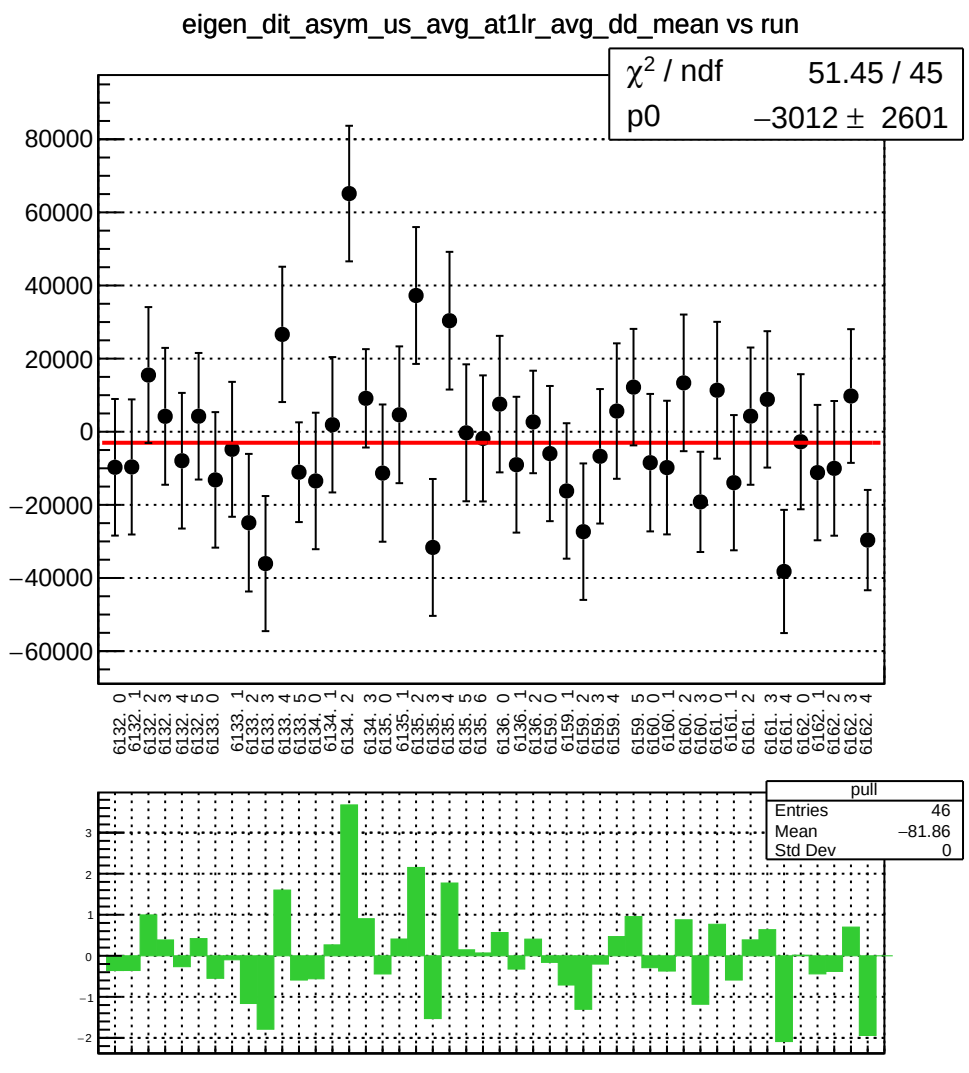

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.264e+04 / 45
p0 777.2 ± 0.8167
1200
1100
1000
900
800
700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

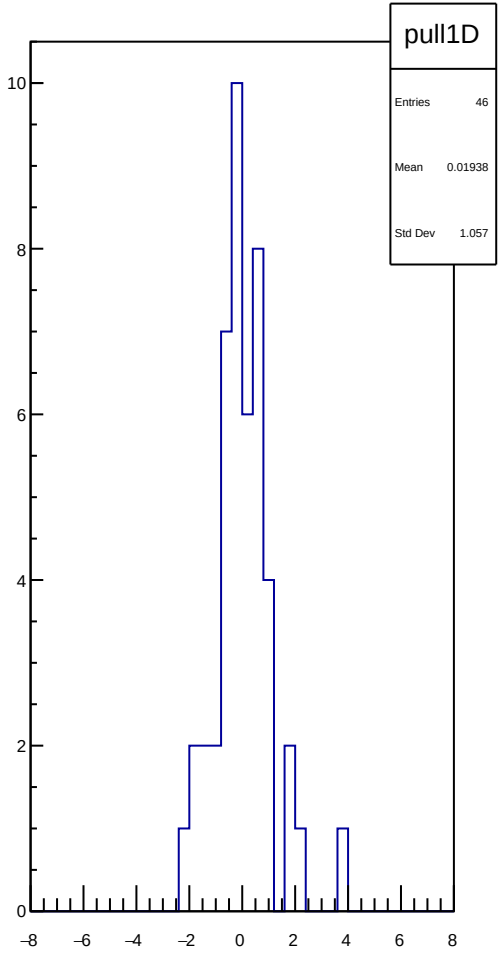

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 51.45 / 45
p0 −3012 ± 2601
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −81.86
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.01938
Std Dev 1.057
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

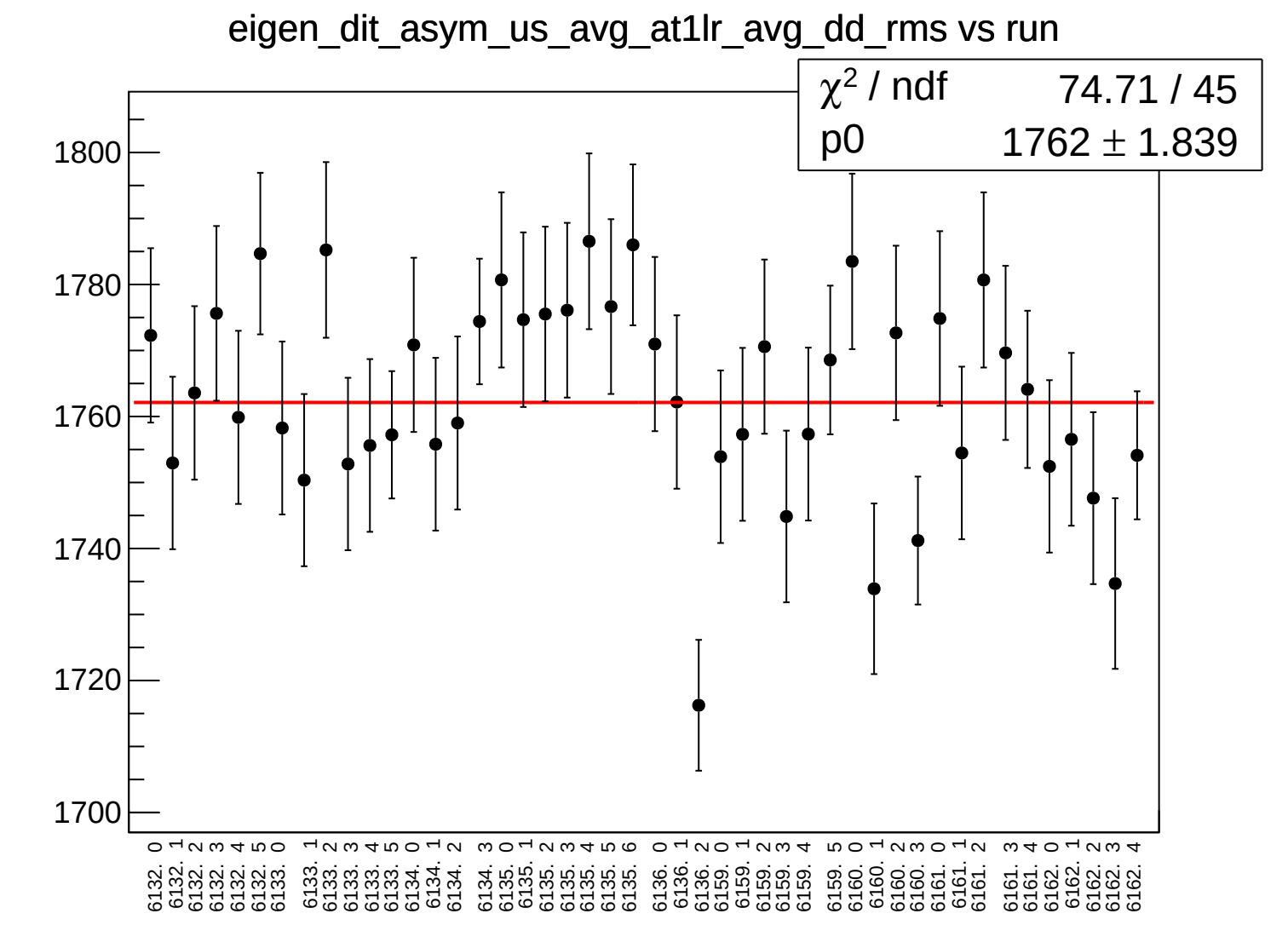

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 74.71 / 45
p0 1762 ± 1.839
1800
1780
1760
1740
1720
1700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

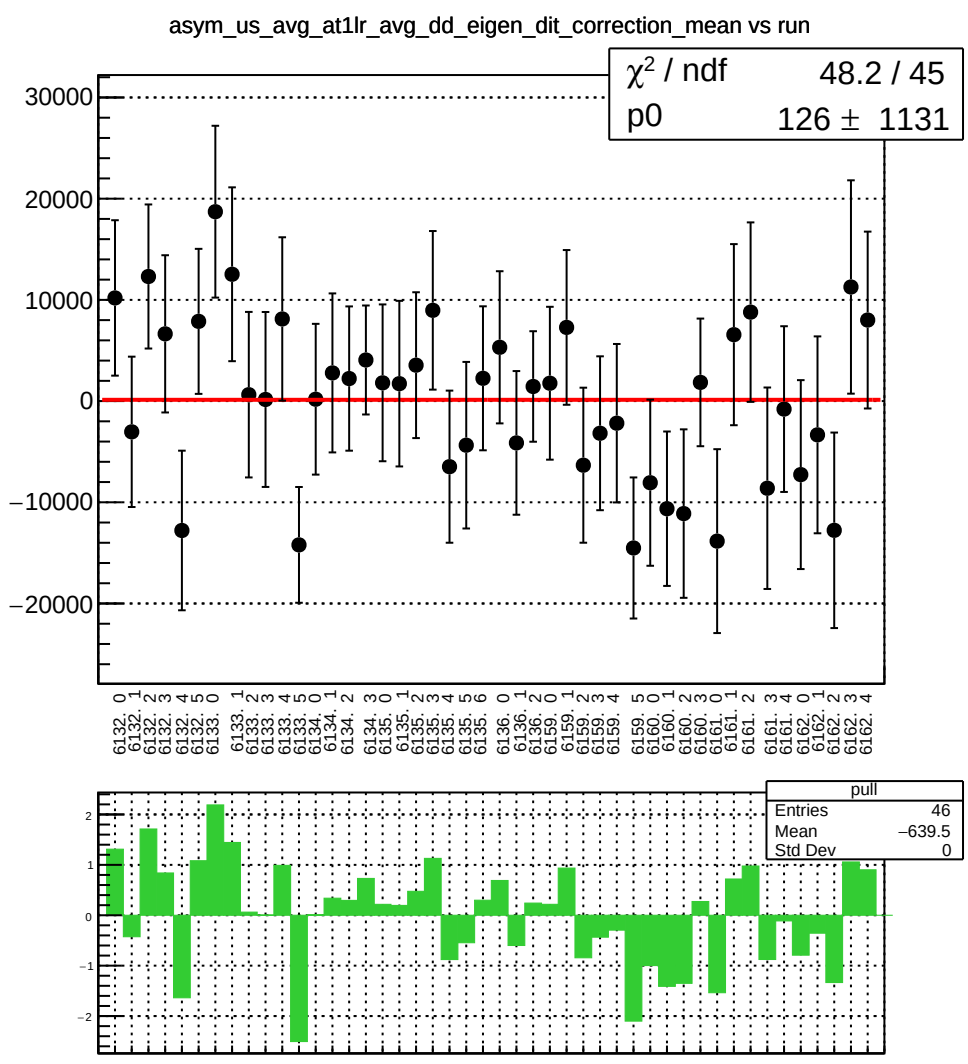

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 48.2 / 45
p0 126 ± 1131
30000
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −639.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.00646
Std Dev 1.024
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

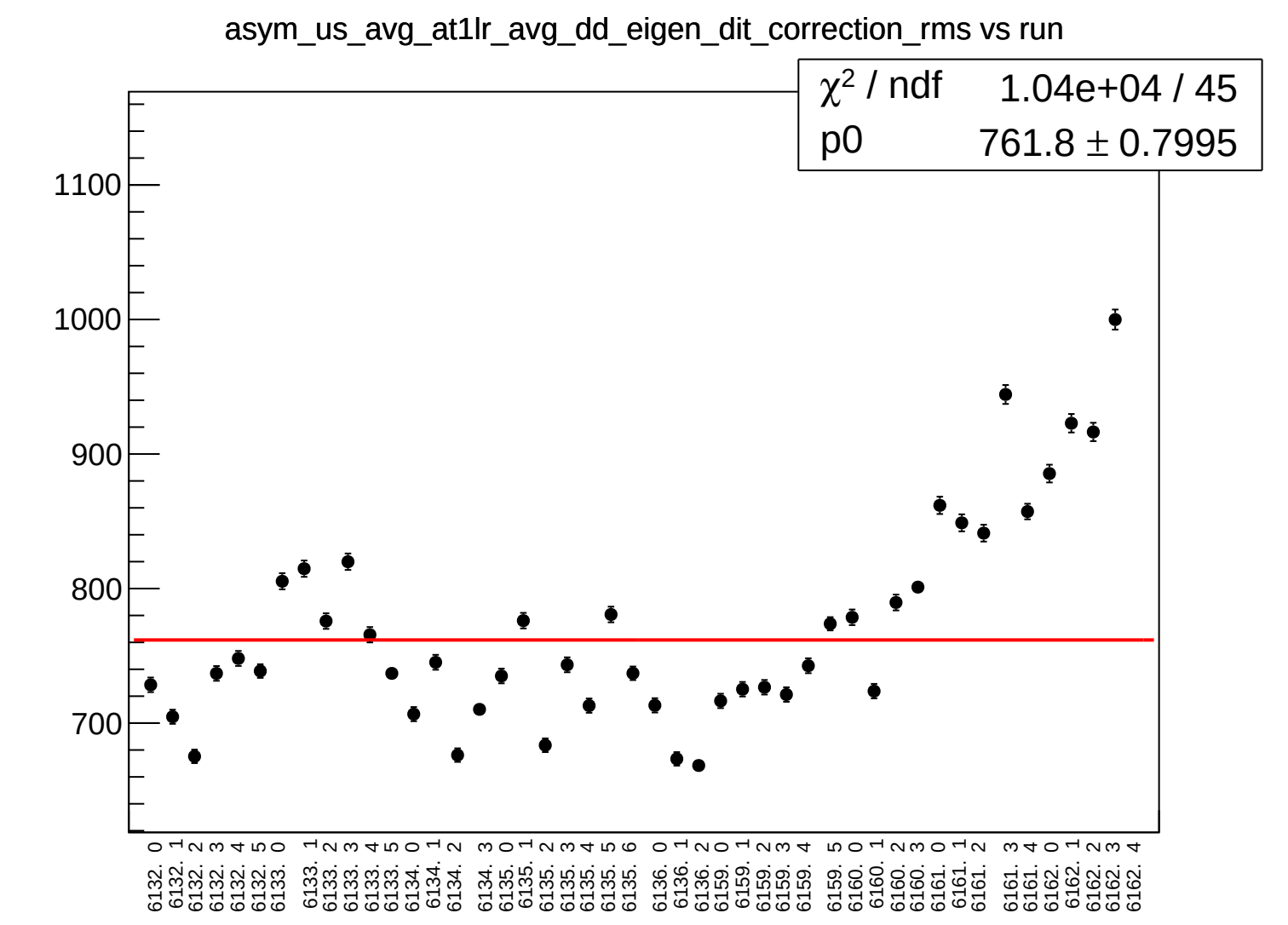

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.04e+04 / 45
p0 761.8 ± 0.7995
1100
1000
900
800
700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

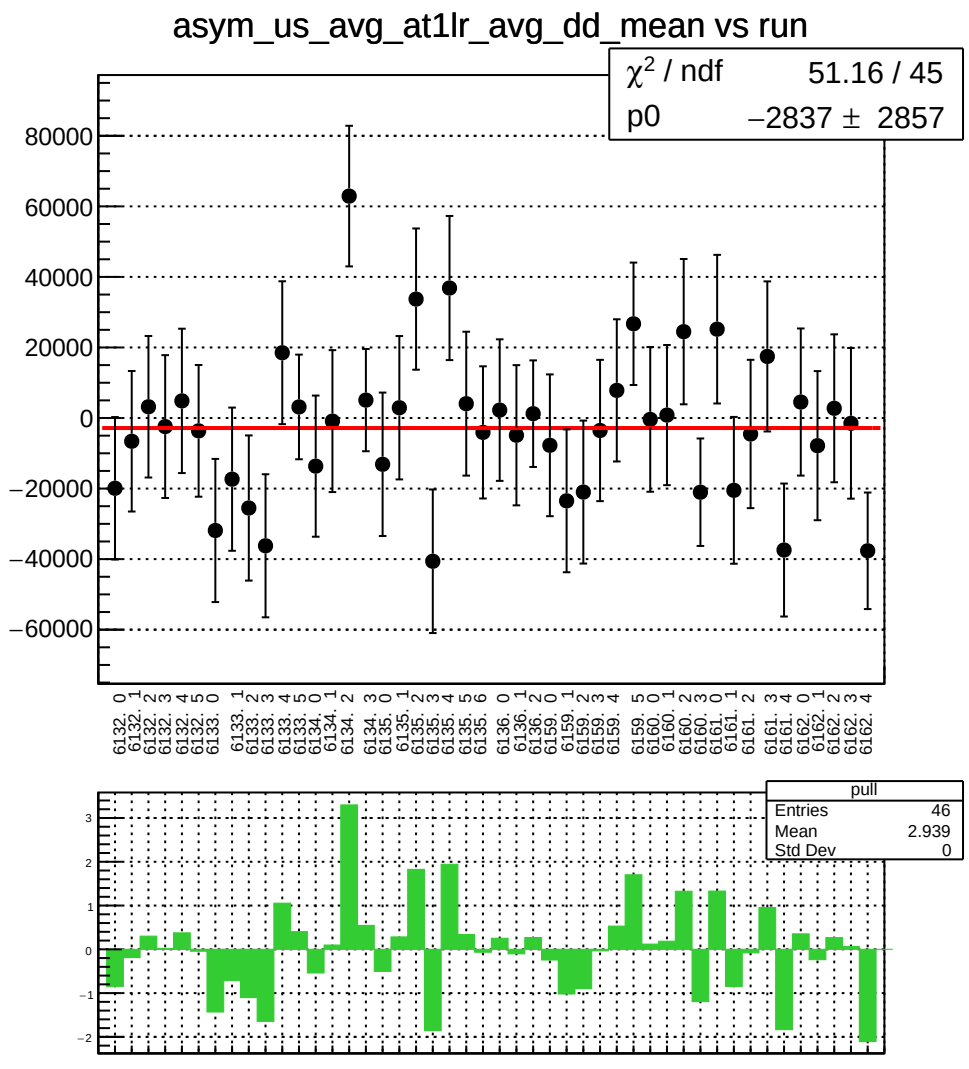

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 51.45 / 45
p0 −3012 ± 2601
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −81.86
Std Dev 0
3
2
1
0
−1
−2

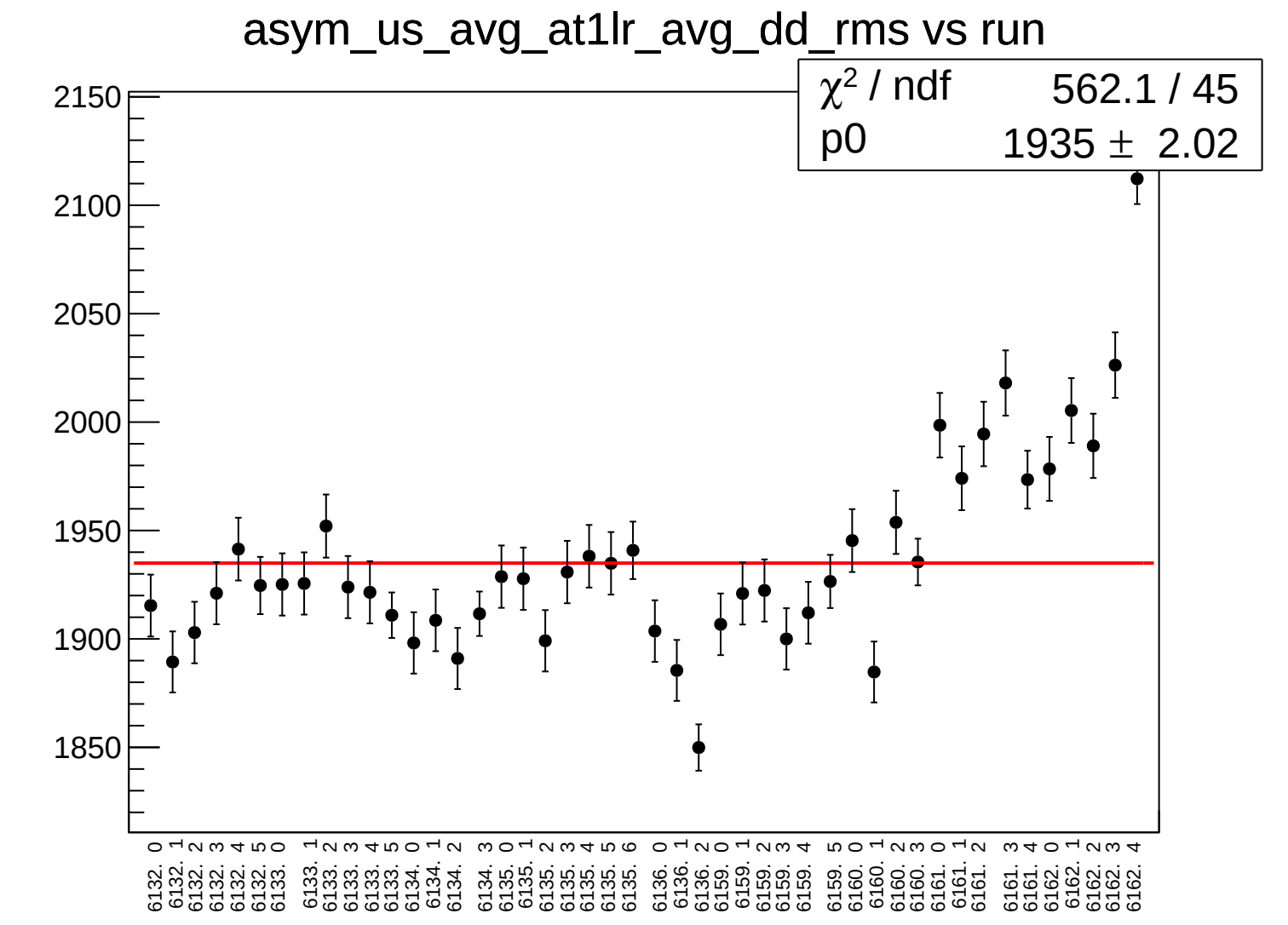

pull1D
Entries 46
Mean 0.01938
Std Dev 1.057
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 74.71 / 45
p0 1762 ± 1.839
1800
1780
1760
1740
1720
1700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 48.2 / 45
p0 126 ± 1131
30000
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −639.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.006461
Std Dev 1.024
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.04e+04 / 45
p0 761.8 ± 0.7995
1100
1000
900
800
700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 51.16 / 45
p0 −2837 ± 2857
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 2.939
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.006546
Std Dev 1.055
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 562.1 / 45
p0 1935 ± 2.02
2150
2100
2050
2000
1950
1900
1850
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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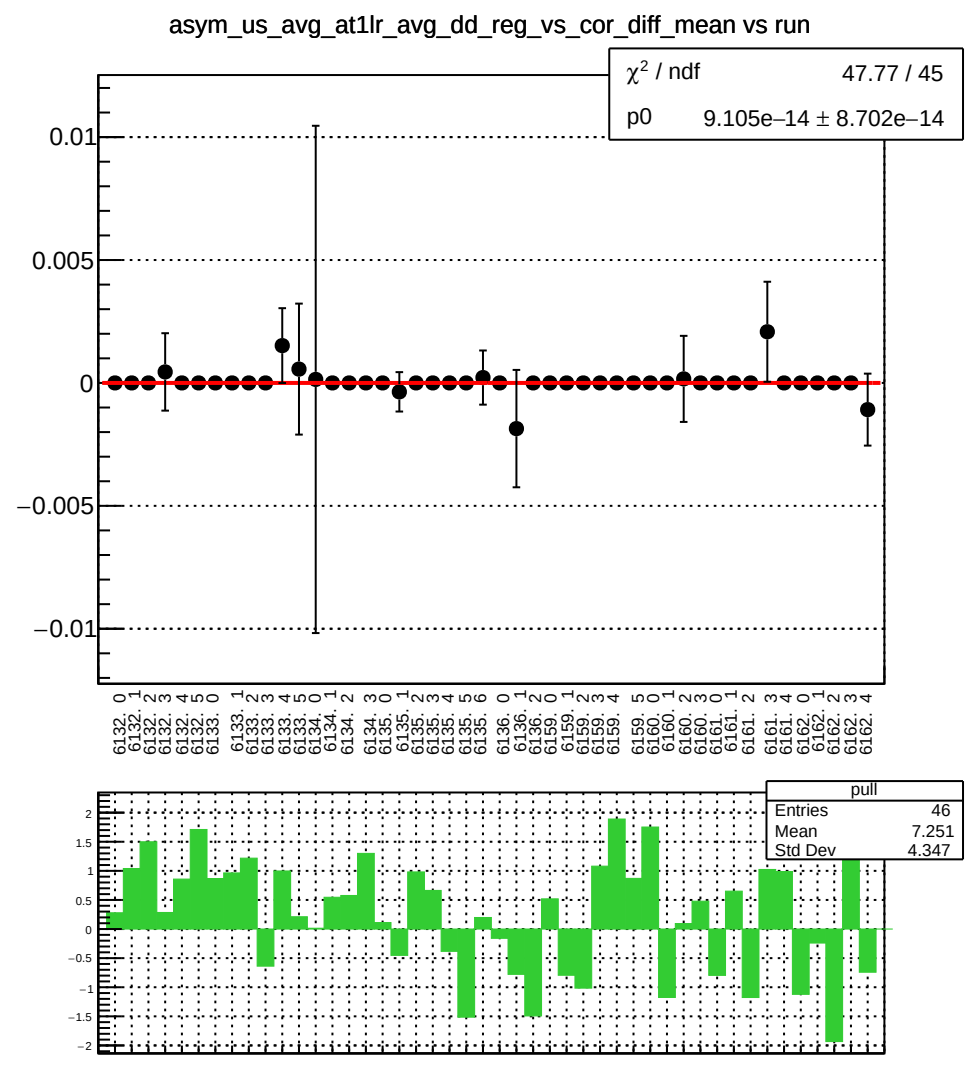
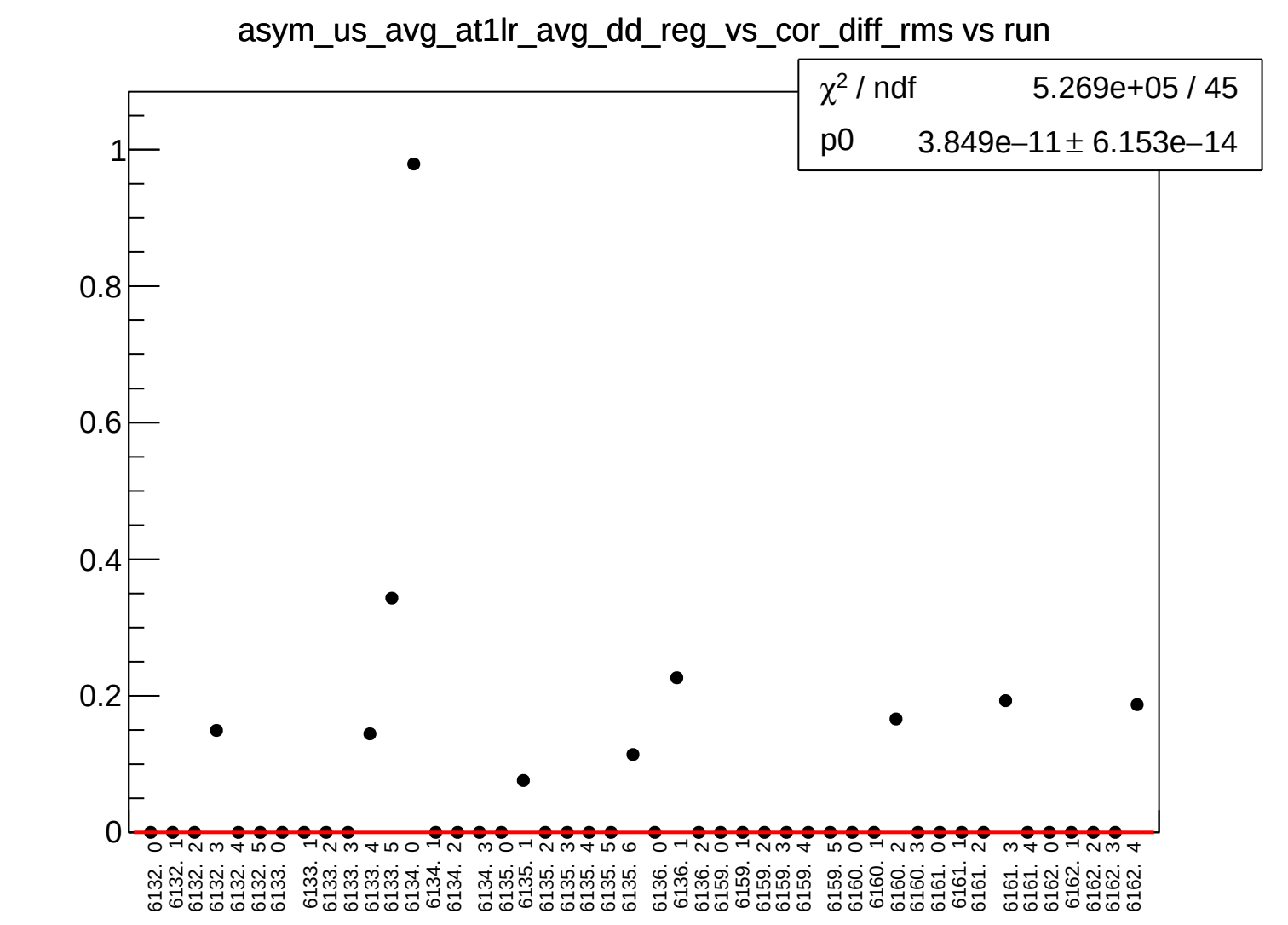
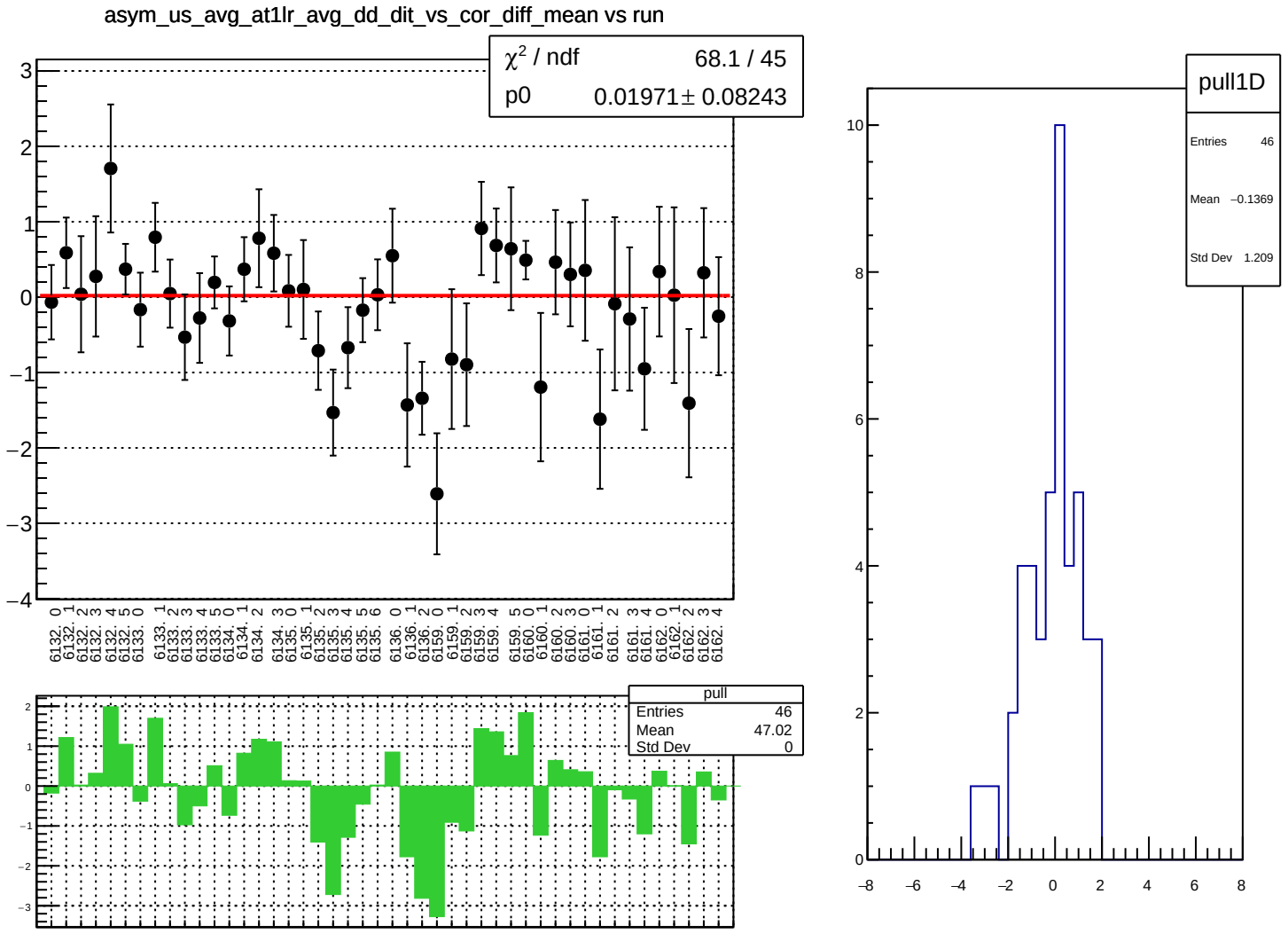
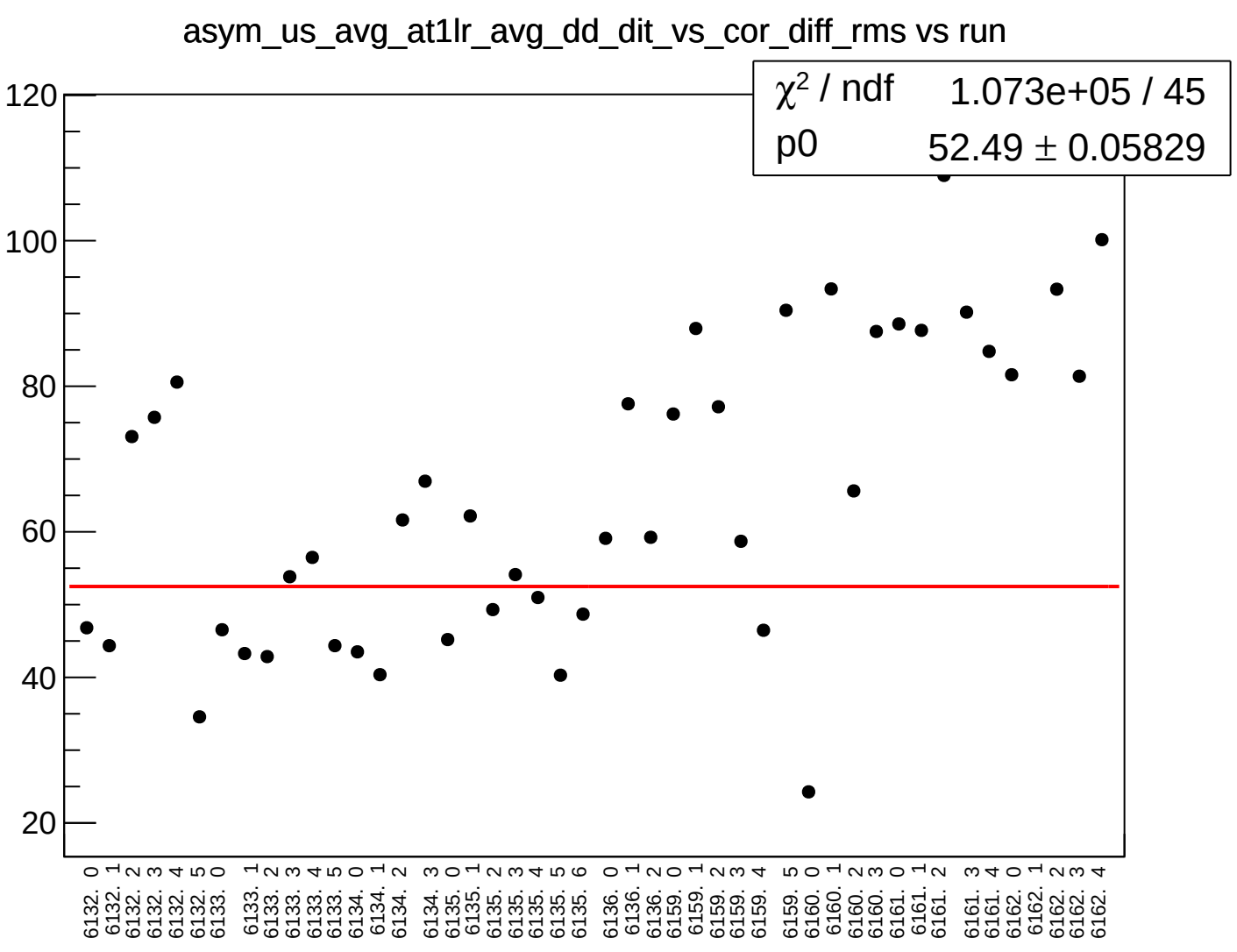
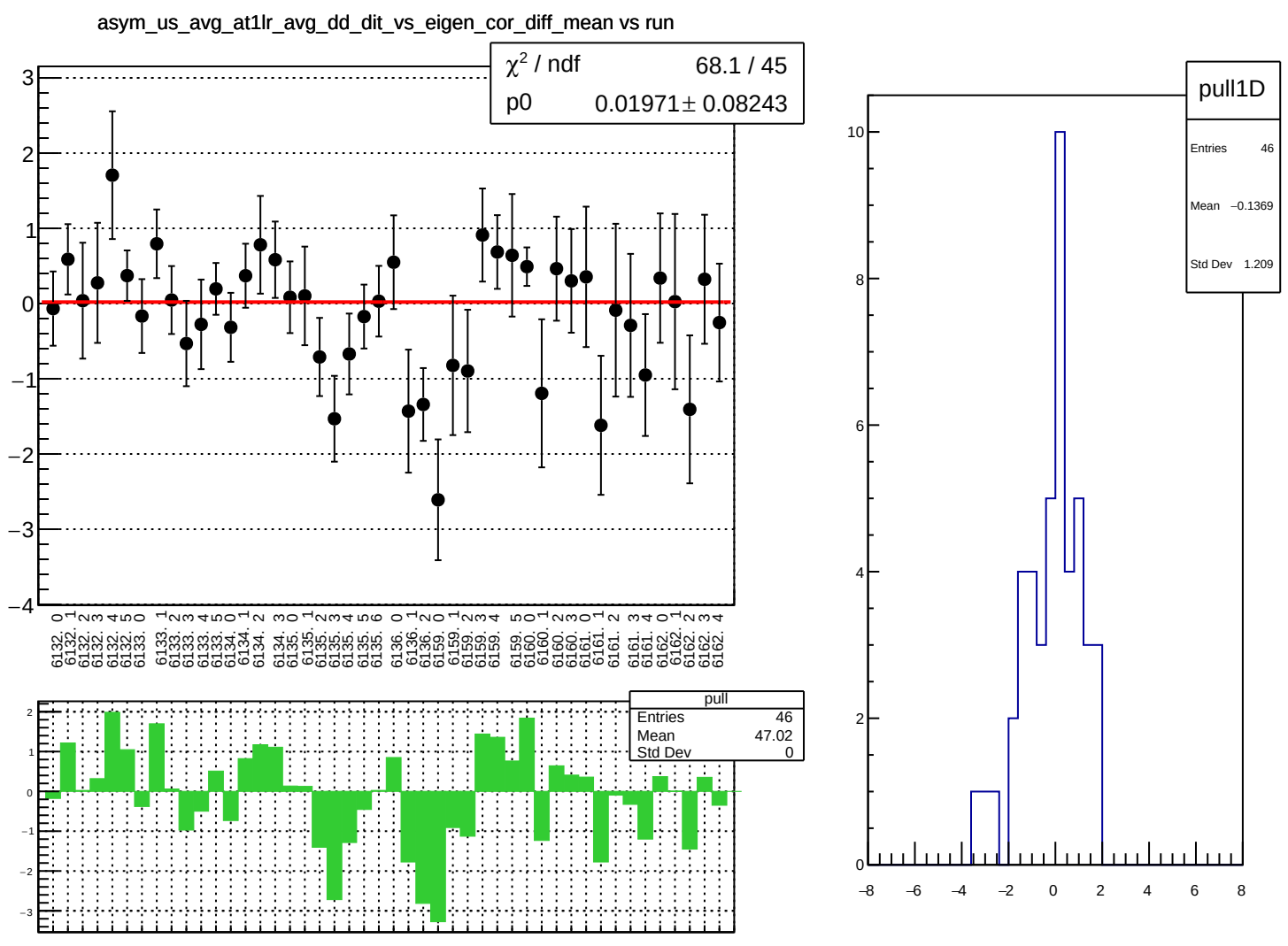
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

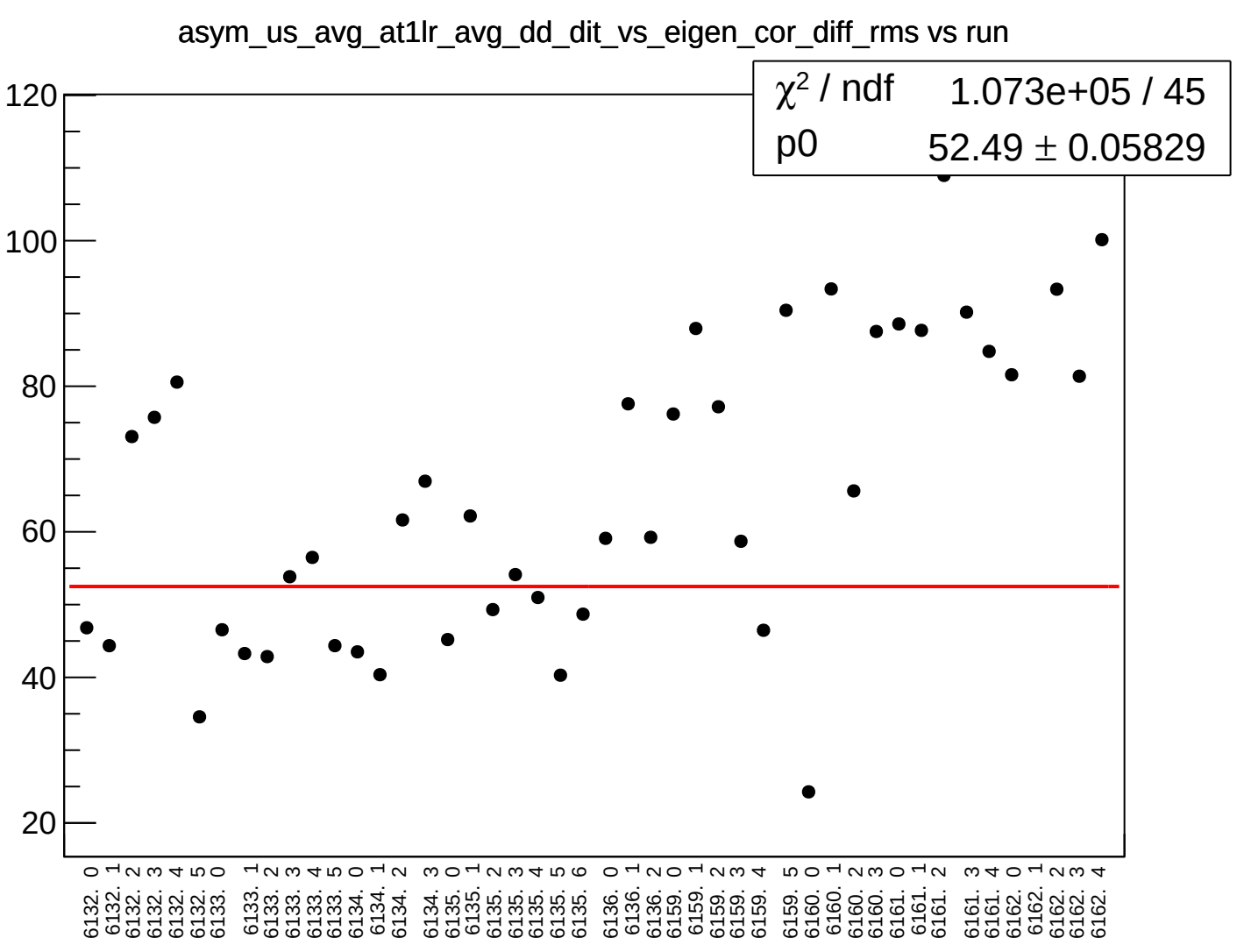

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 47.77 / 45
p0 9.105e−14 ± 8.702e−14
0.01
0.005
0
−0.005
−0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 7.251
Std Dev 4.347
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.2476
Std Dev 0.9885
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

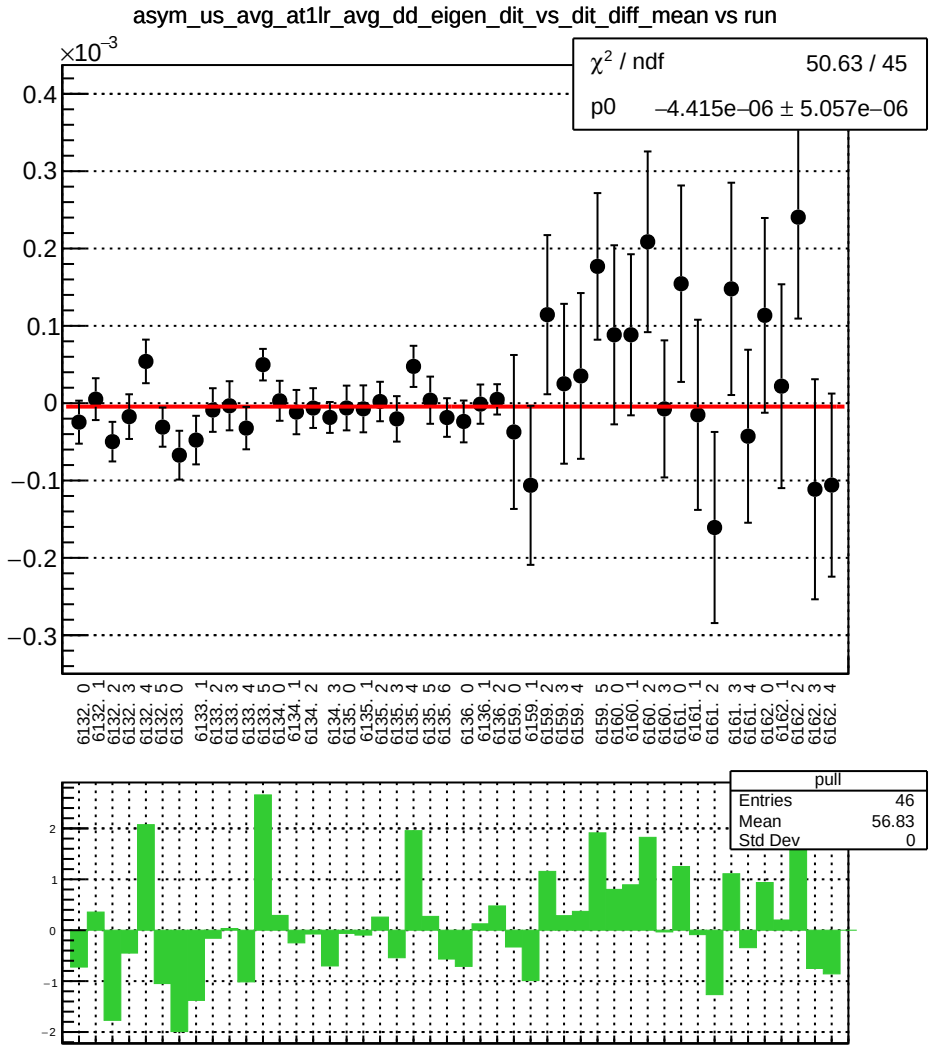

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.269e+05 / 45
p0 3.849e−11 ± 6.153e−14
1
0.8
0.6
0.4
0.2
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

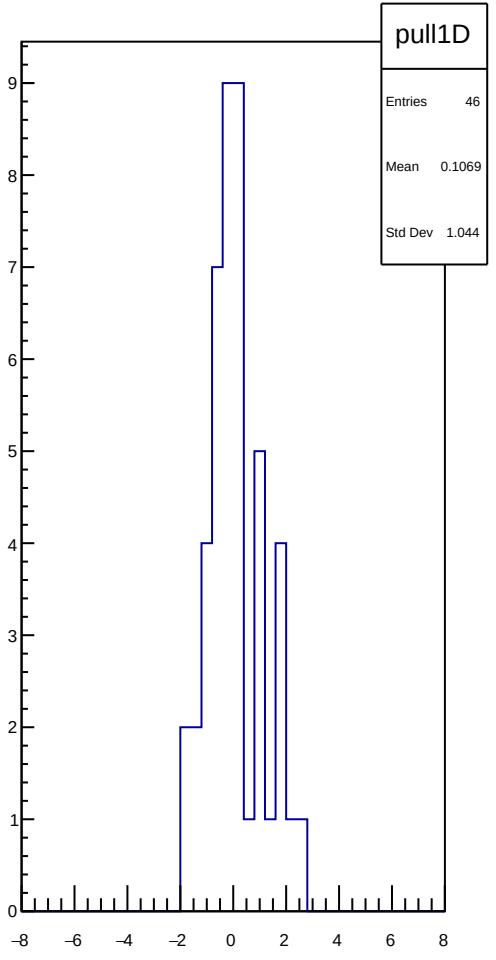

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 68.1 / 45
p0 0.01971 ± 0.08243
pull
Entries 46
Mean 47.02
Std Dev 0
pull1D
Entries 46
Mean −0.1369
Std Dev 1.209

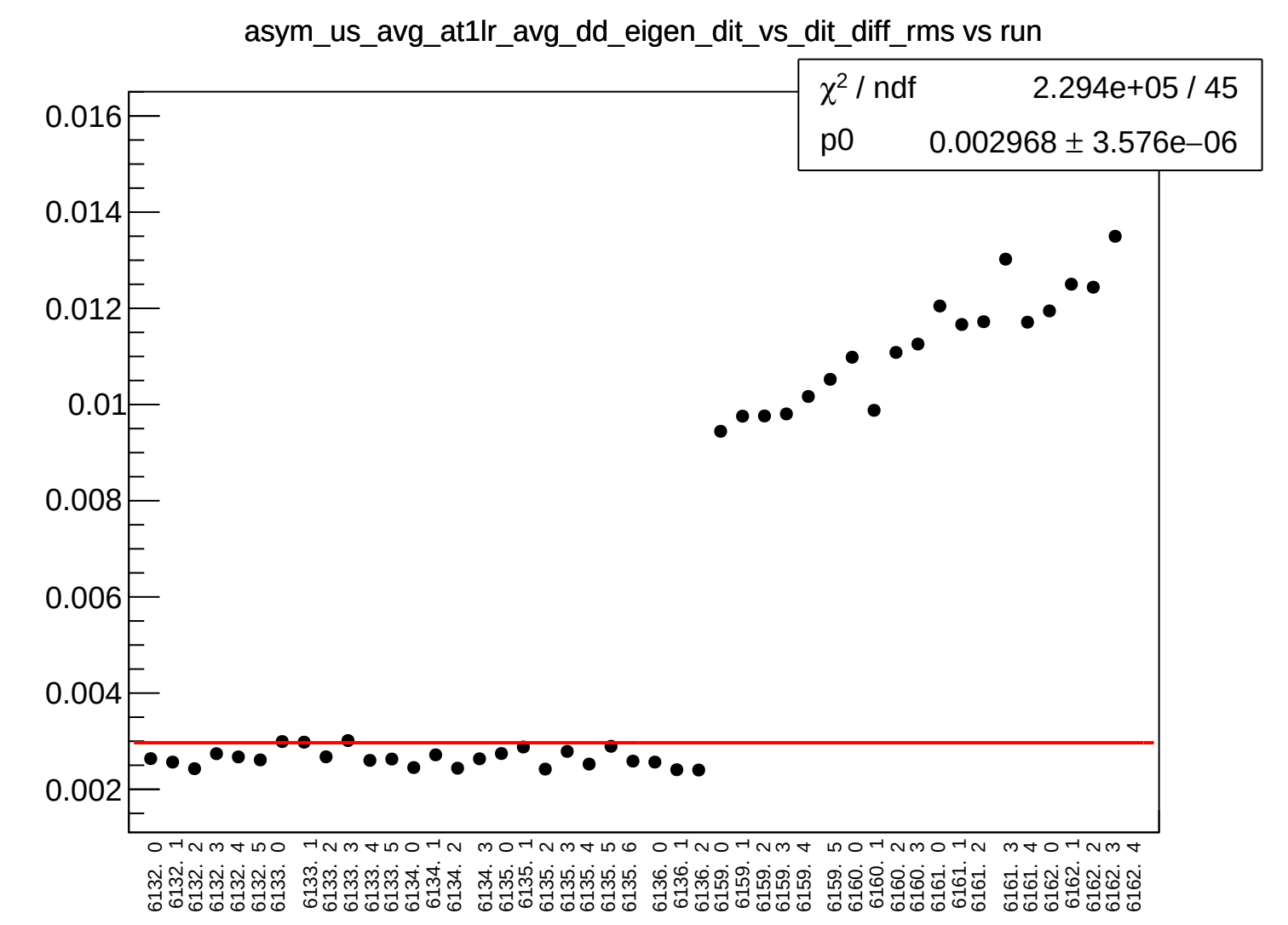

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.073e+05 / 45
p0 52.49 ± 0.05829
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

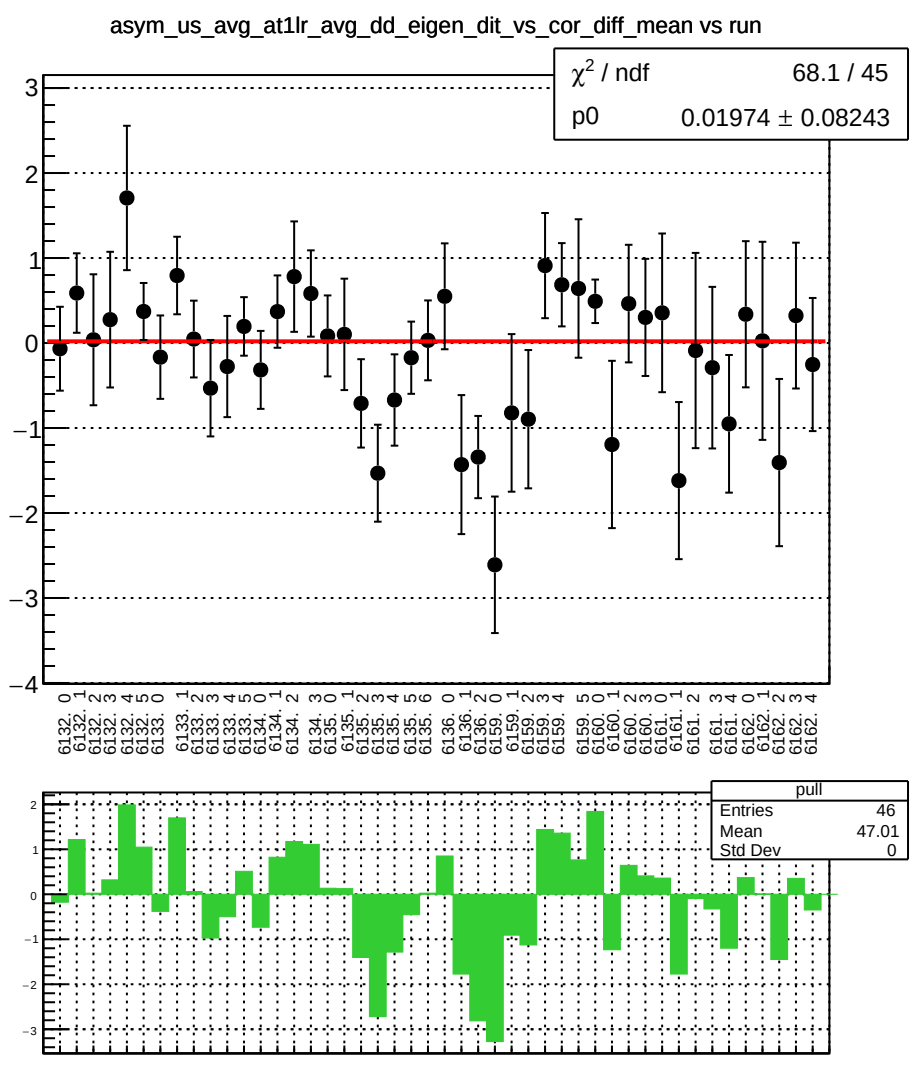

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.1 / 45
p0 0.01971 ± 0.08243
pull
Entries 46
Mean 47.02
Std Dev 0
pull1D
Entries 46
Mean −0.1369
Std Dev 1.209

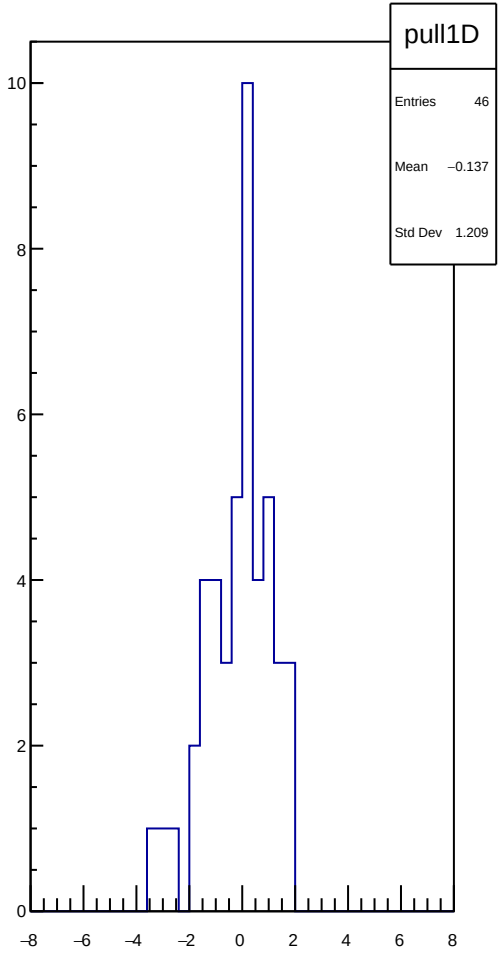

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.073e+05 / 45
p0 52.49 ± 0.05829
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

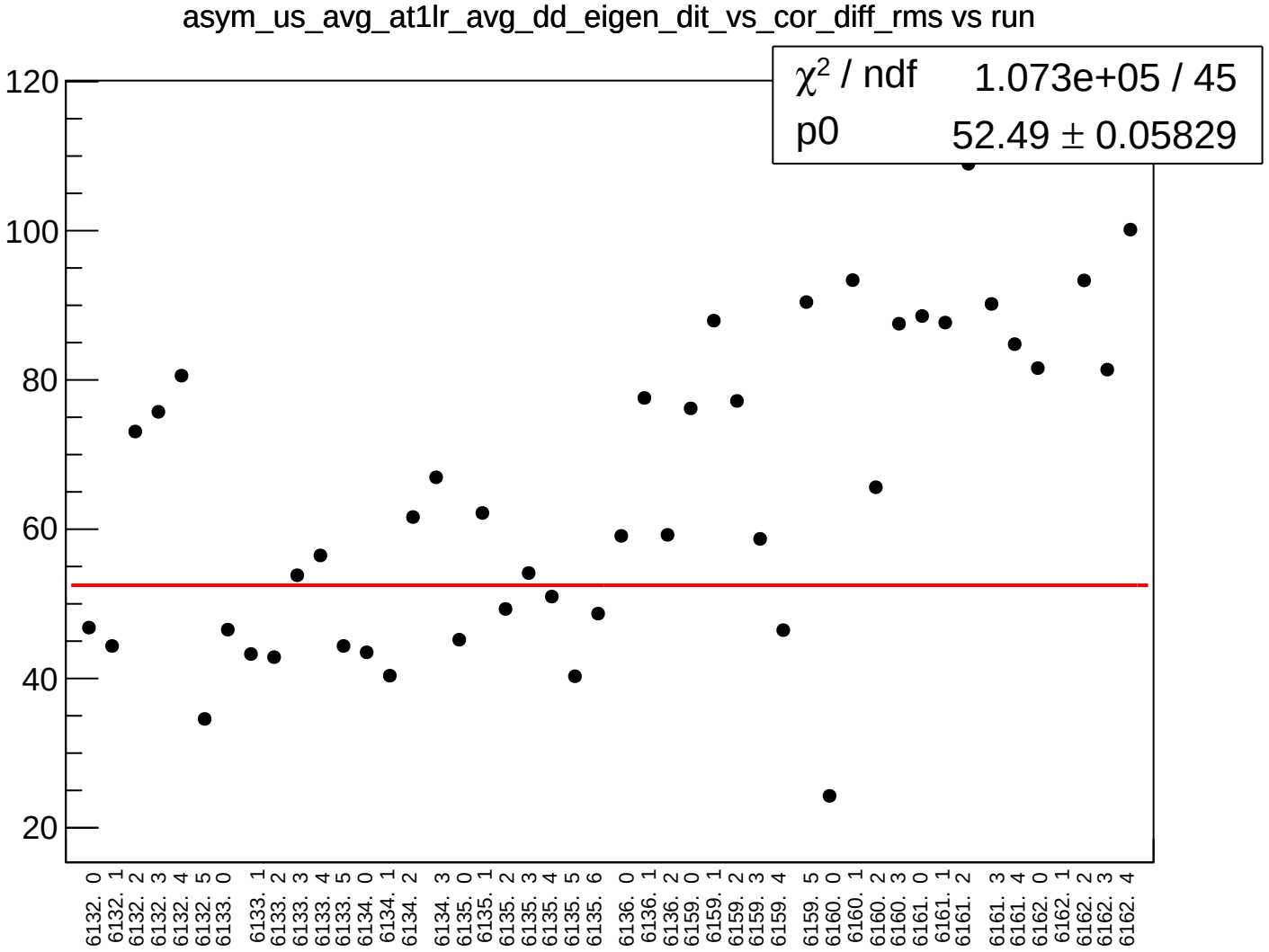

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 50.63 / 45
p0 −4.415e−06 ± 5.057e−06
pull
Entries 46
Mean 56.83
Std Dev 0

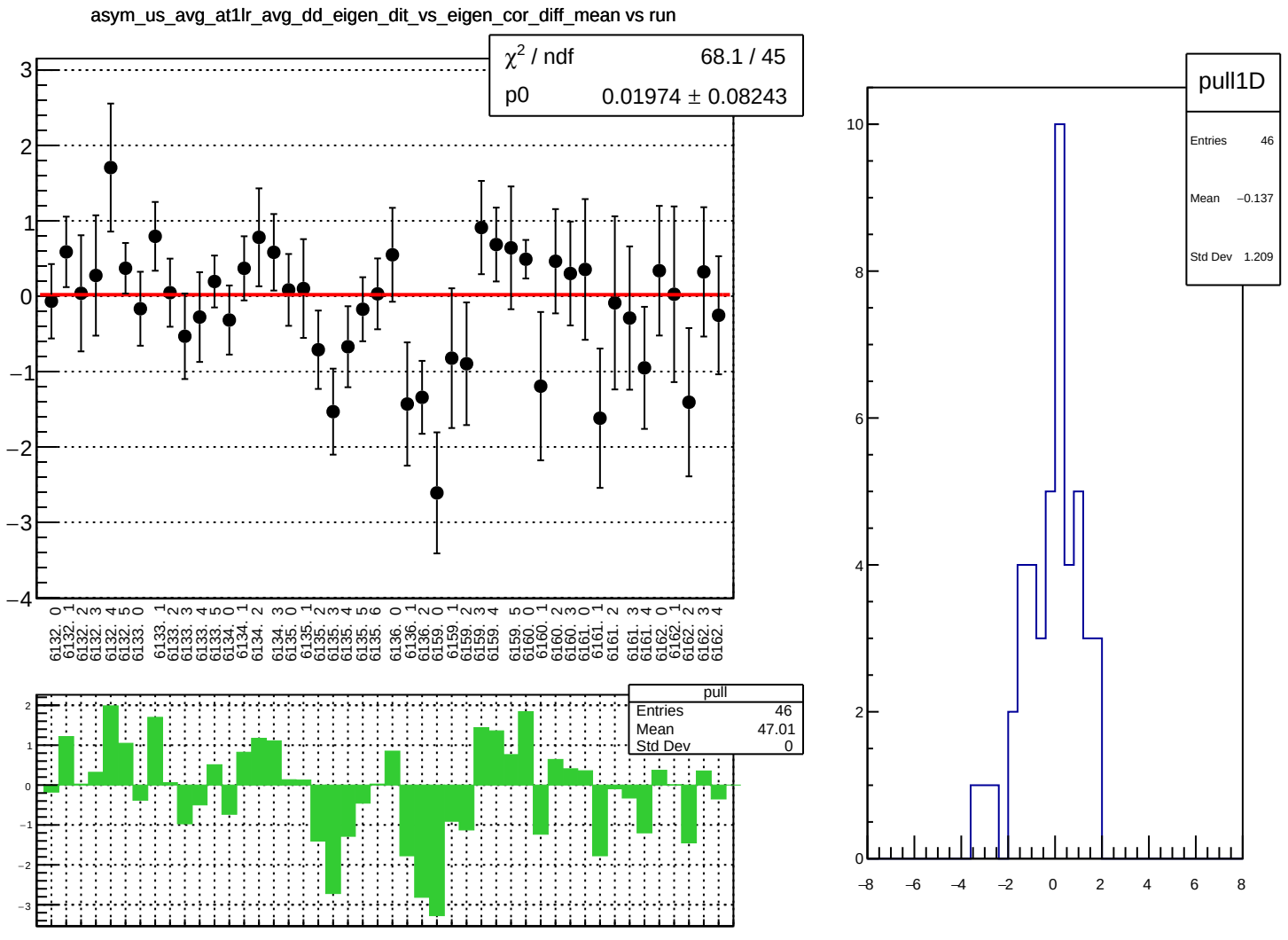

pull1D
Entries 46
Mean 0.1069
Std Dev 1.044

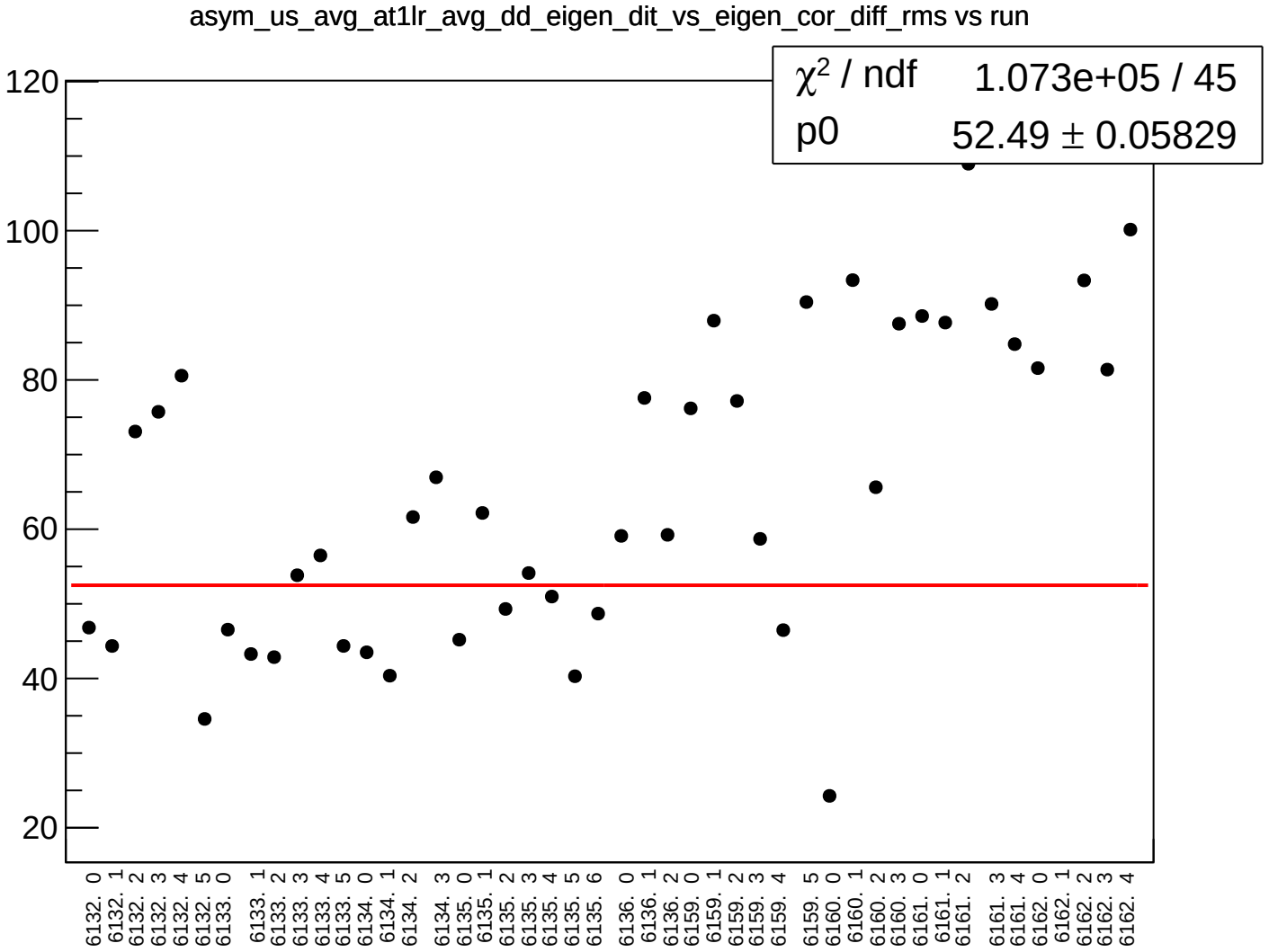

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.294e+05 / 45
p0 0.002968 ± 3.576e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

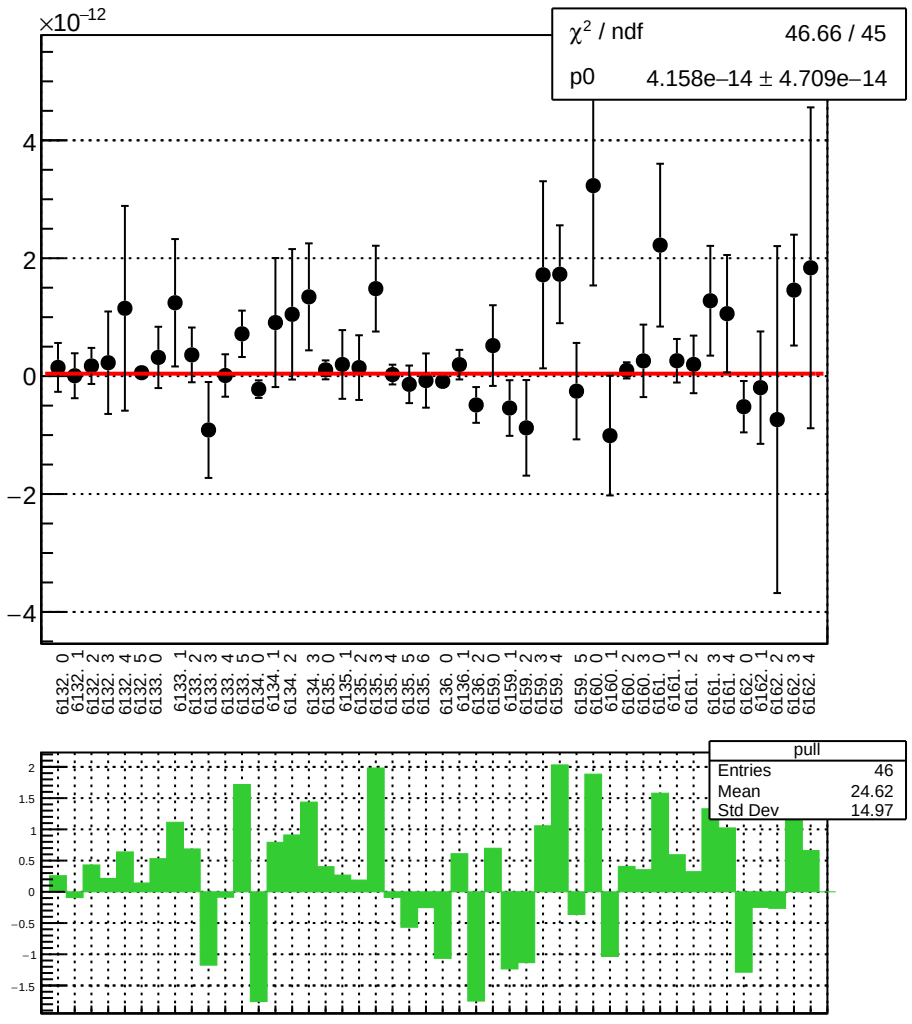

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.1 / 45
p0 0.01974 ± 0.08243
pull
Entries 46
Mean 47.01
Std Dev 0

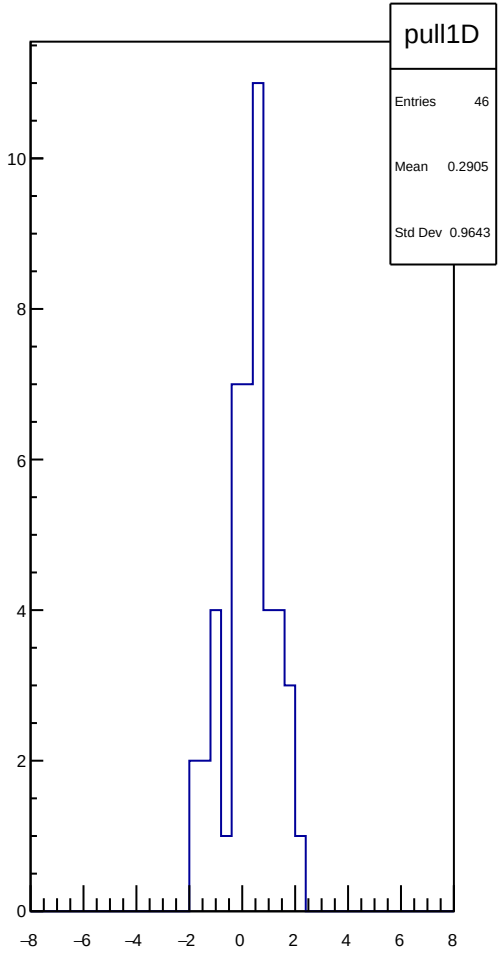

pull1D
Entries 46
Mean −0.137
Std Dev 1.209

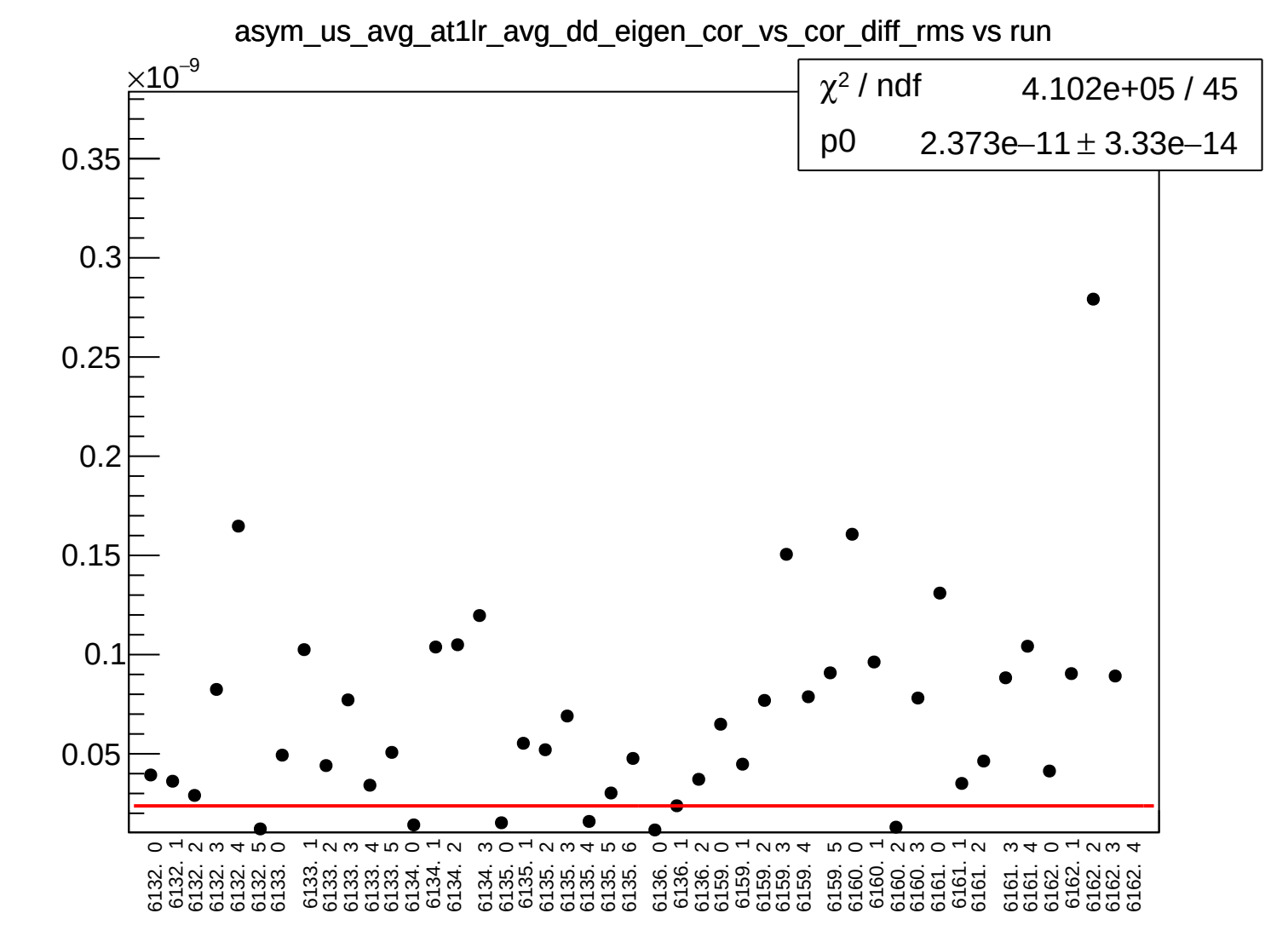

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.073e+05 / 45
p0 52.49 ± 0.05829
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

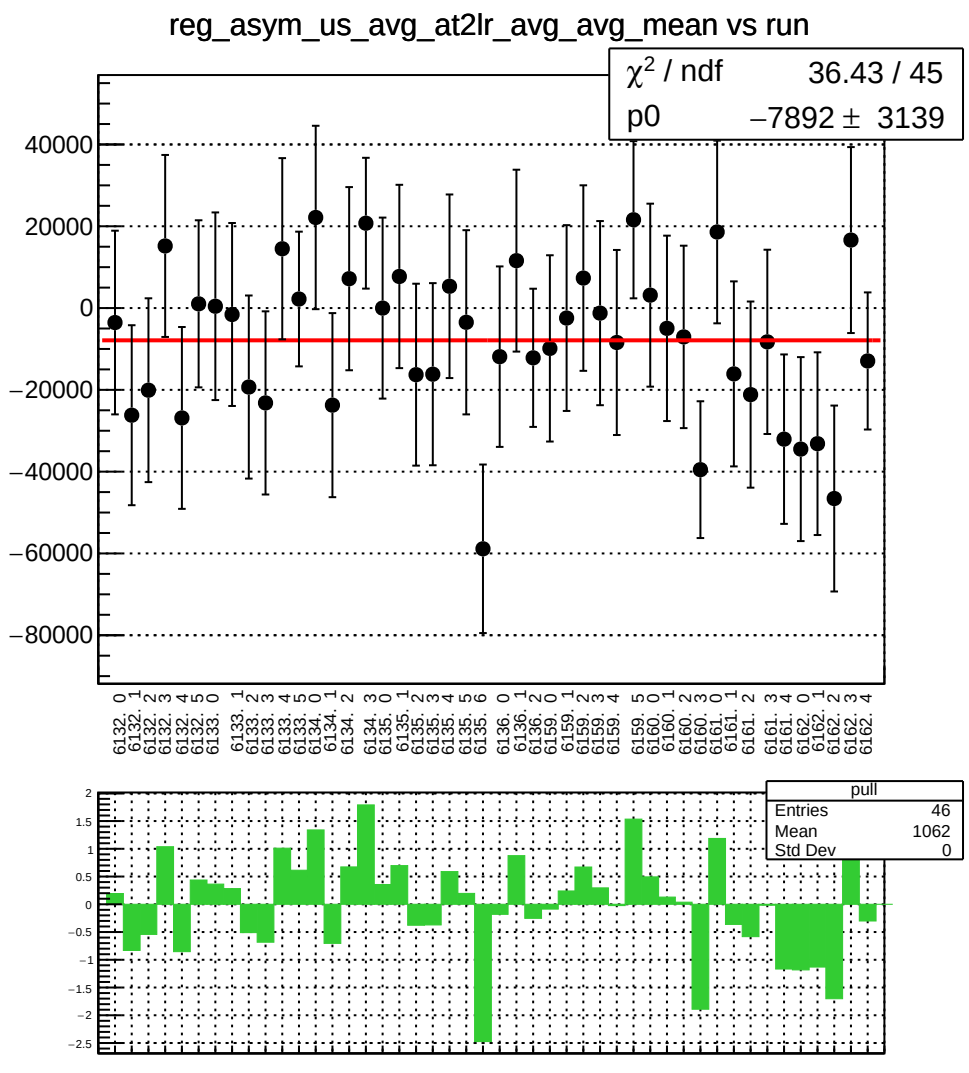

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.1 / 45
p0 0.01974 ± 0.08243
pull
Entries 46
Mean 47.01
Std Dev 0
pull1D
Entries 46
Mean −0.137
Std Dev 1.209

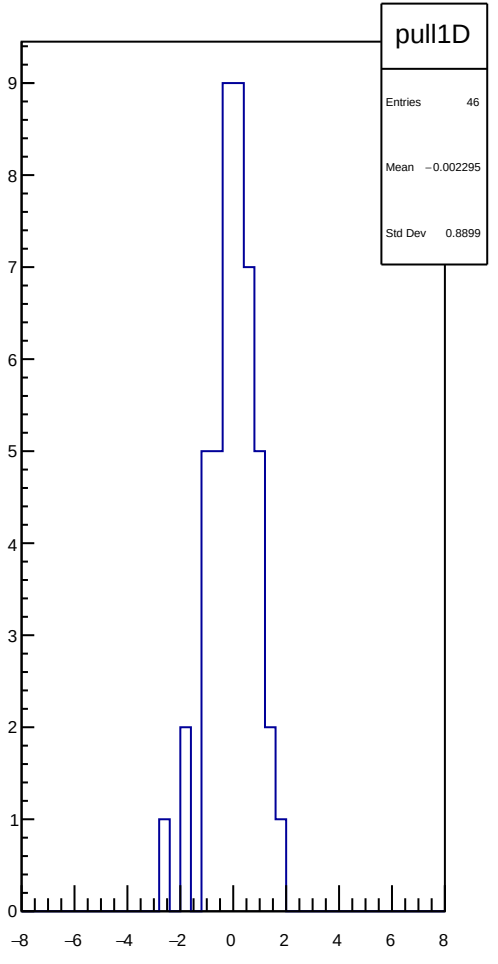

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.073e+05 / 45
p0 52.49 ± 0.05829
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

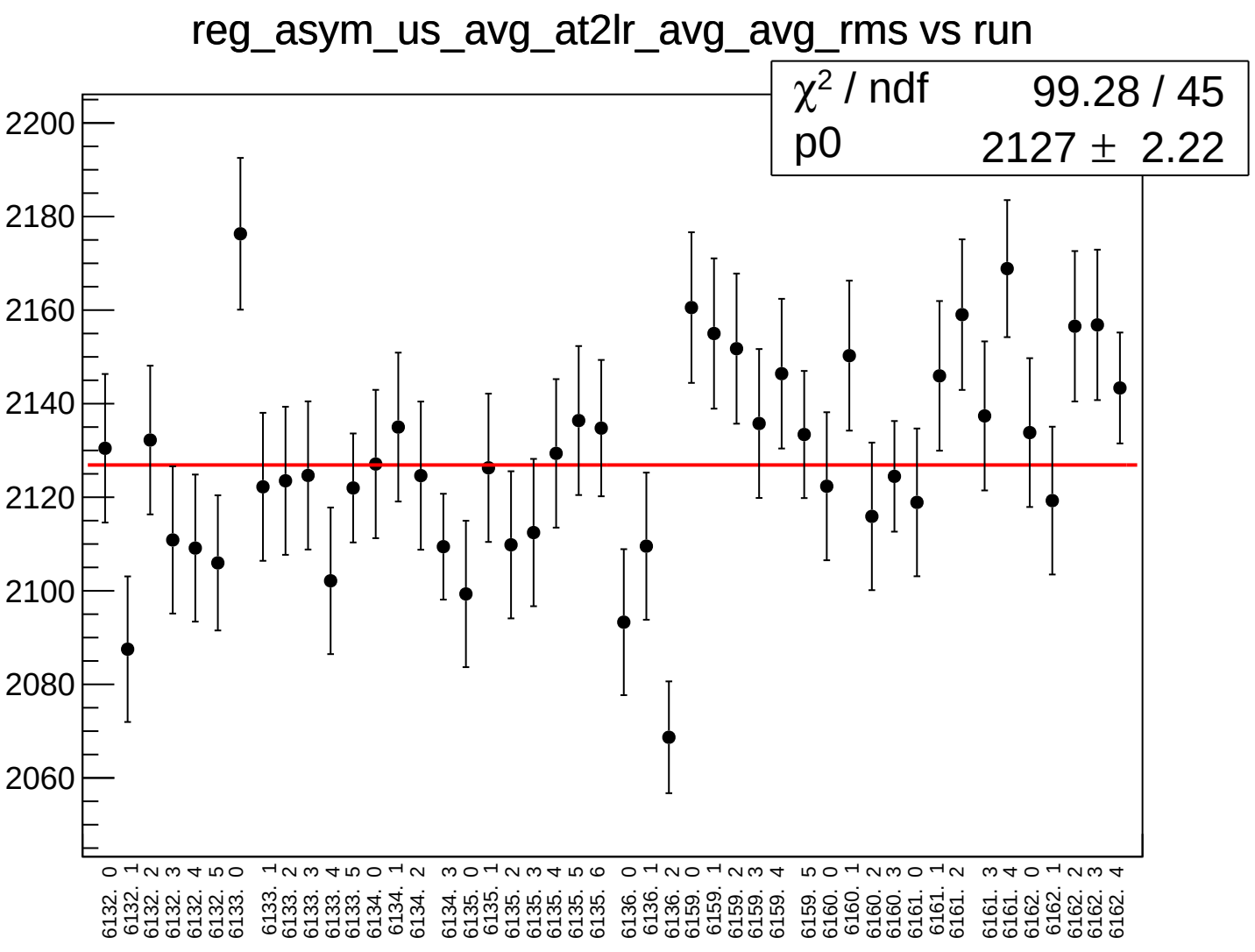

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 46.66 / 45
p0 4.158e−14 ± 4.709e−14
pull
Entries 46
Mean 24.62
Std Dev 14.97

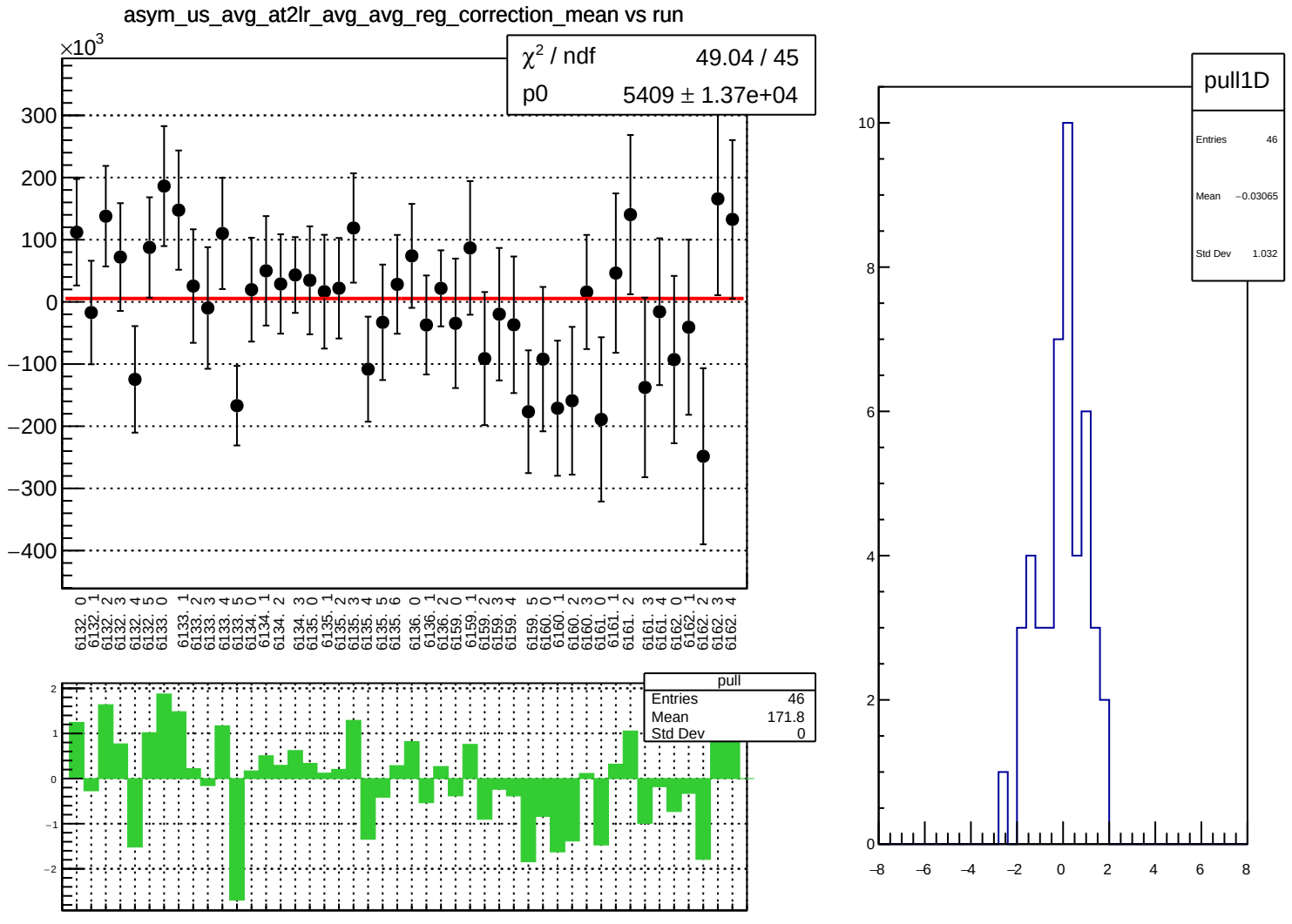

pull1D
Entries 46
Mean 0.2905
Std Dev 0.9643

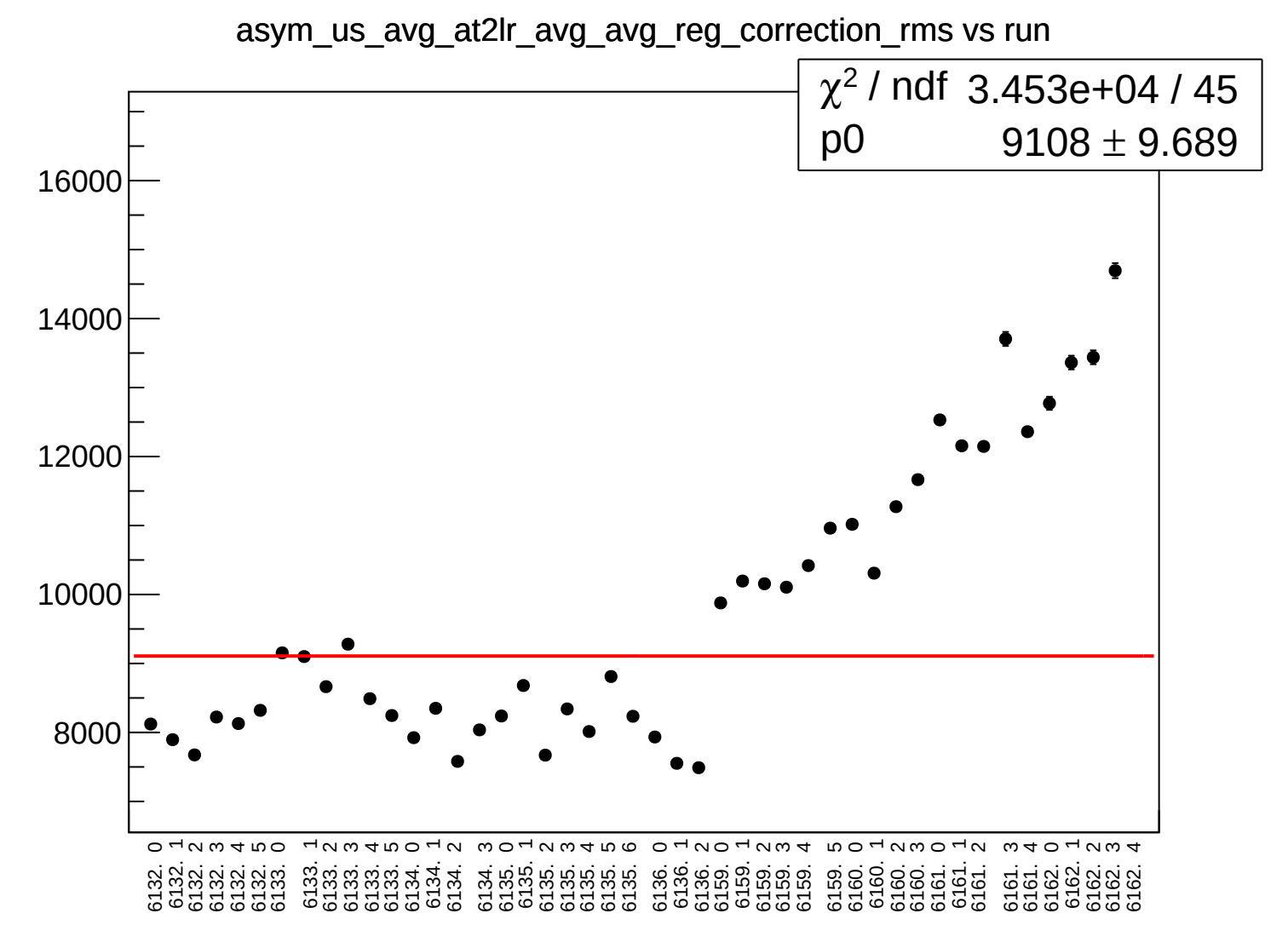

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.102e+05 / 45
p0 2.373e−11 ± 3.33e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

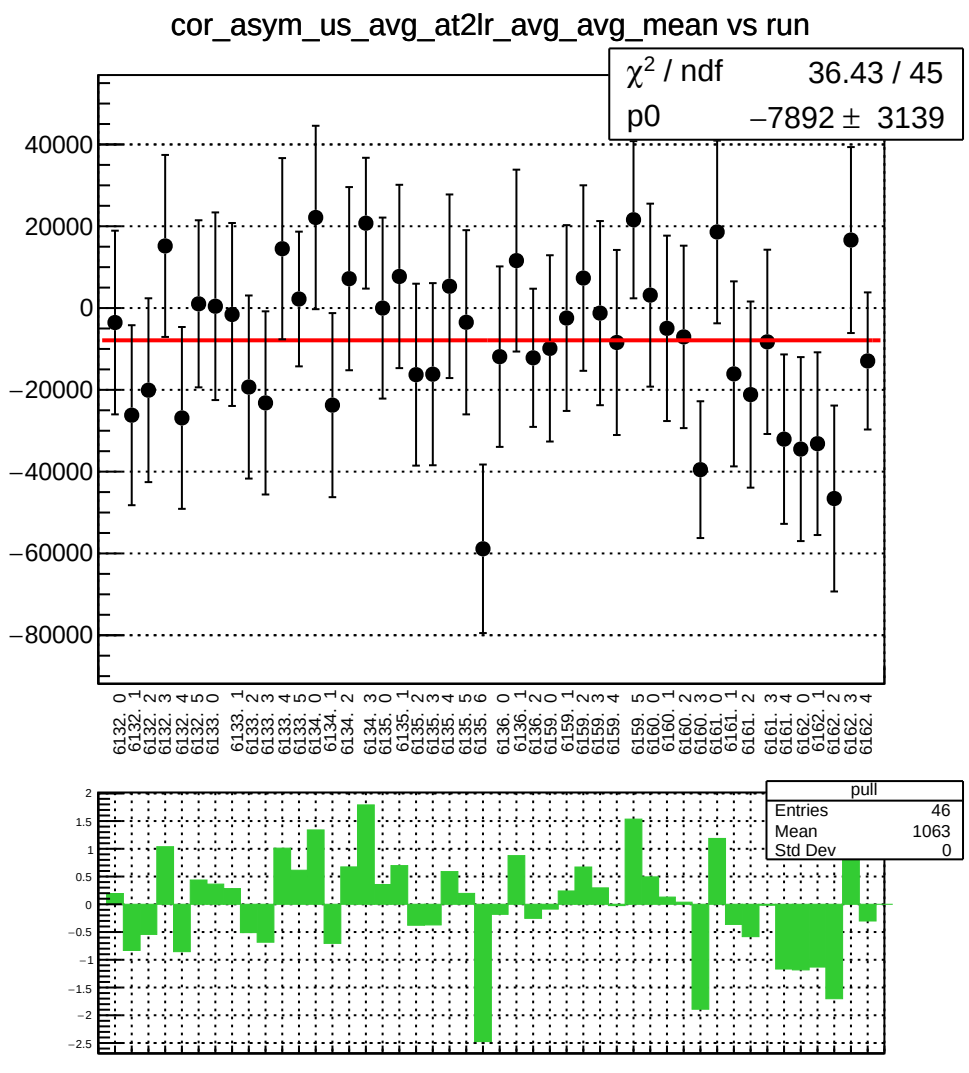

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 36.43 / 45
p0 −7892 ± 3139
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 1062
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

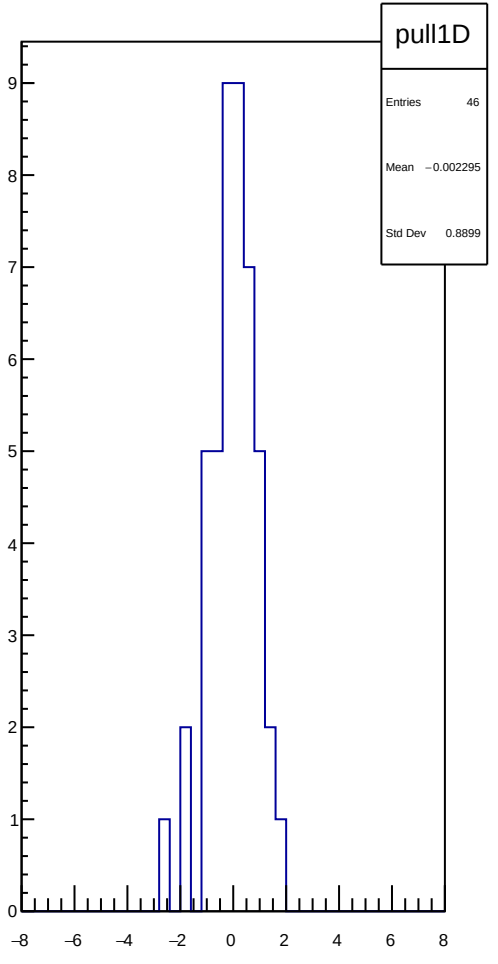

pull1D
Entries 46
Mean −0.002295
Std Dev 0.8899
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

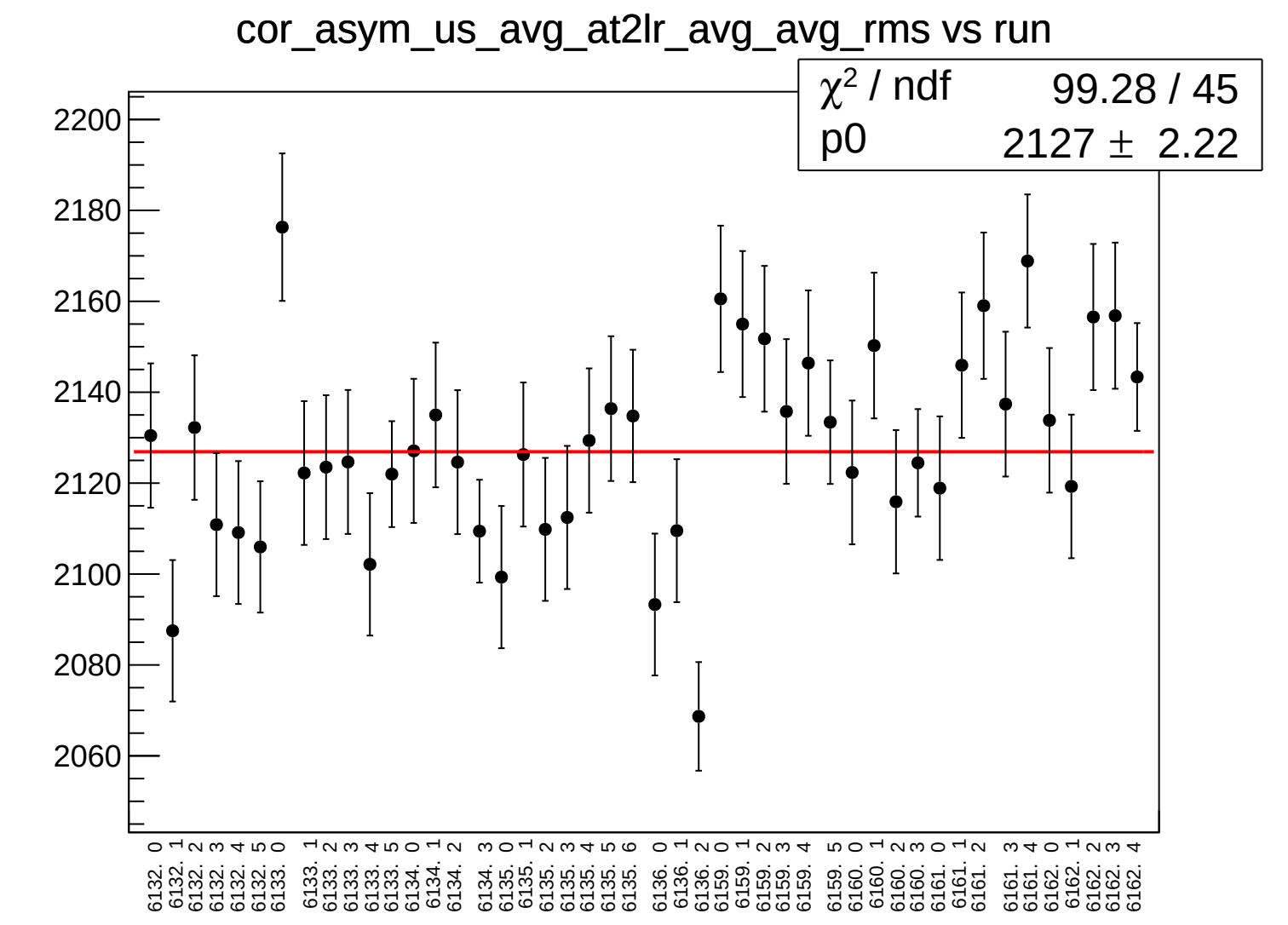

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 99.28 / 45
p0 2127 ± 2.22
2200
2180
2160
2140
2120
2100
2080
2060
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 49.04 / 45
p0 5409 ± 1.37e+04
300
200
100
0
−100
−200
−300
−400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 171.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.03065
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 3.453e+04 / 45
p0 9108 ± 9.689
16000
14000
12000
10000
8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 36.43 / 45
p0 −7892 ± 3139
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 1063
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.002295
Std Dev 0.8899
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 99.28 / 45
p0 2127 ± 2.22
2200
2180
2160
2140
2120
2100
2080
2060
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6162. 0
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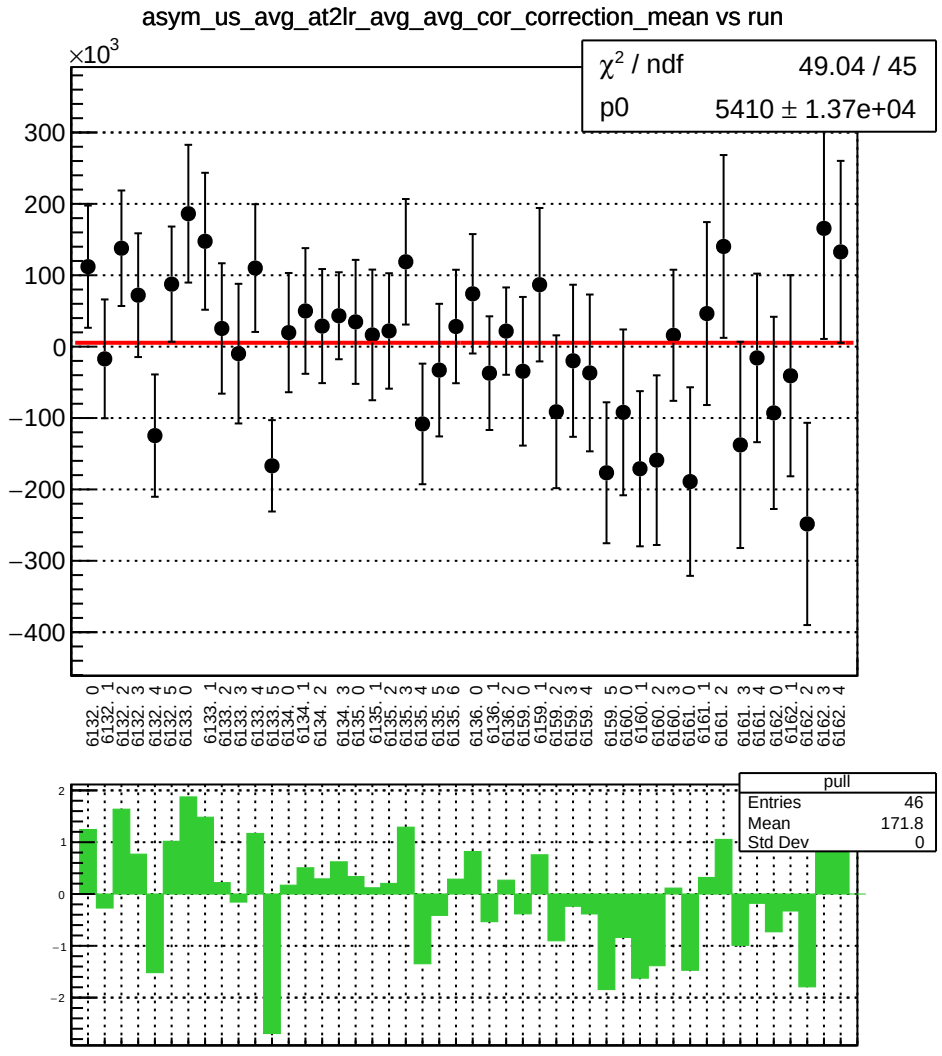
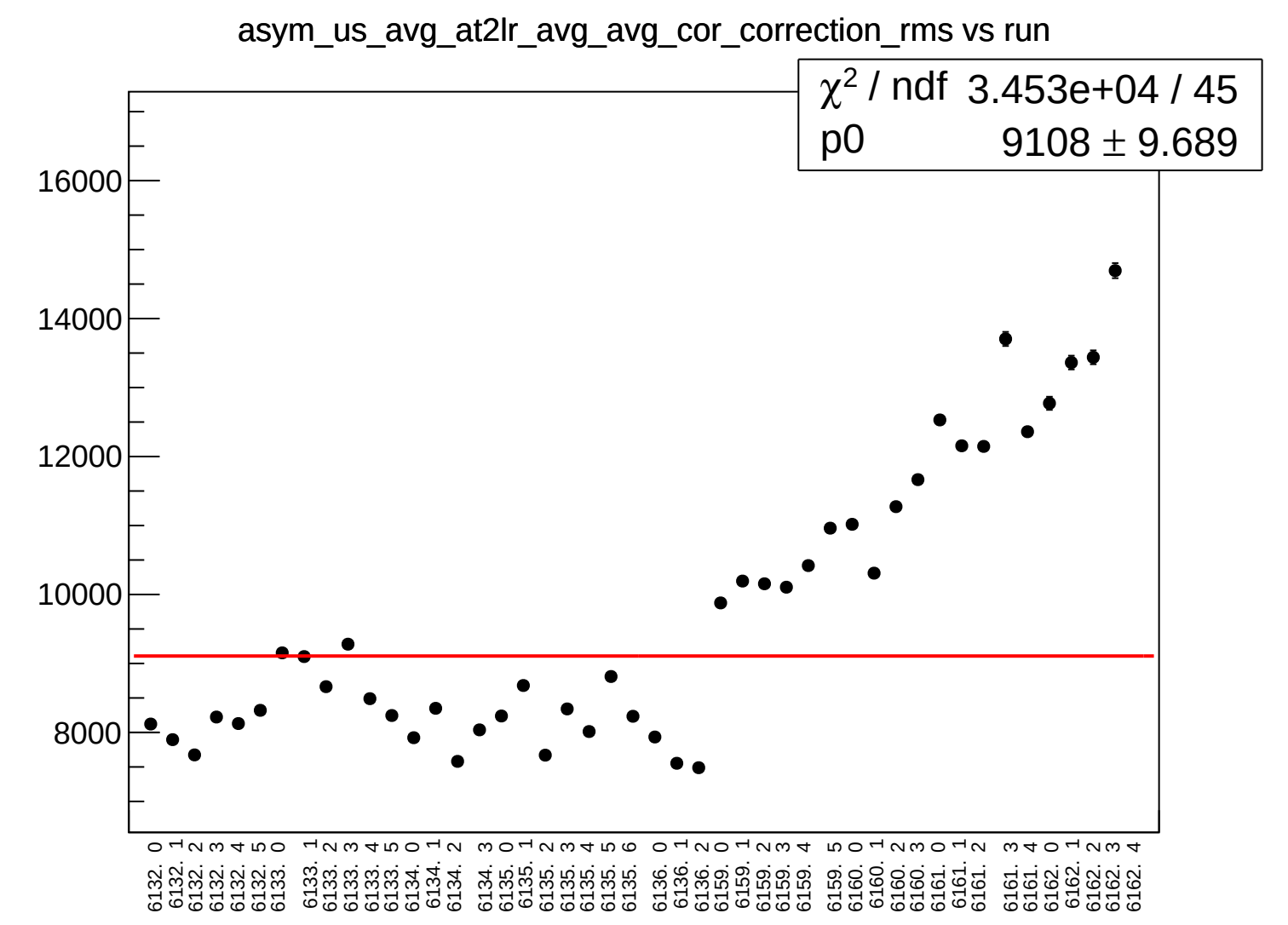
6162. 3
6162. 4


asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 49.04 / 45
p0 5410 ± 1.37e+04
300
200
100
0
−100
−200
−300
−400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 171.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.03065
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 3.453e+04 / 45
p0 9108 ± 9.689
16000
14000
12000
10000
8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
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
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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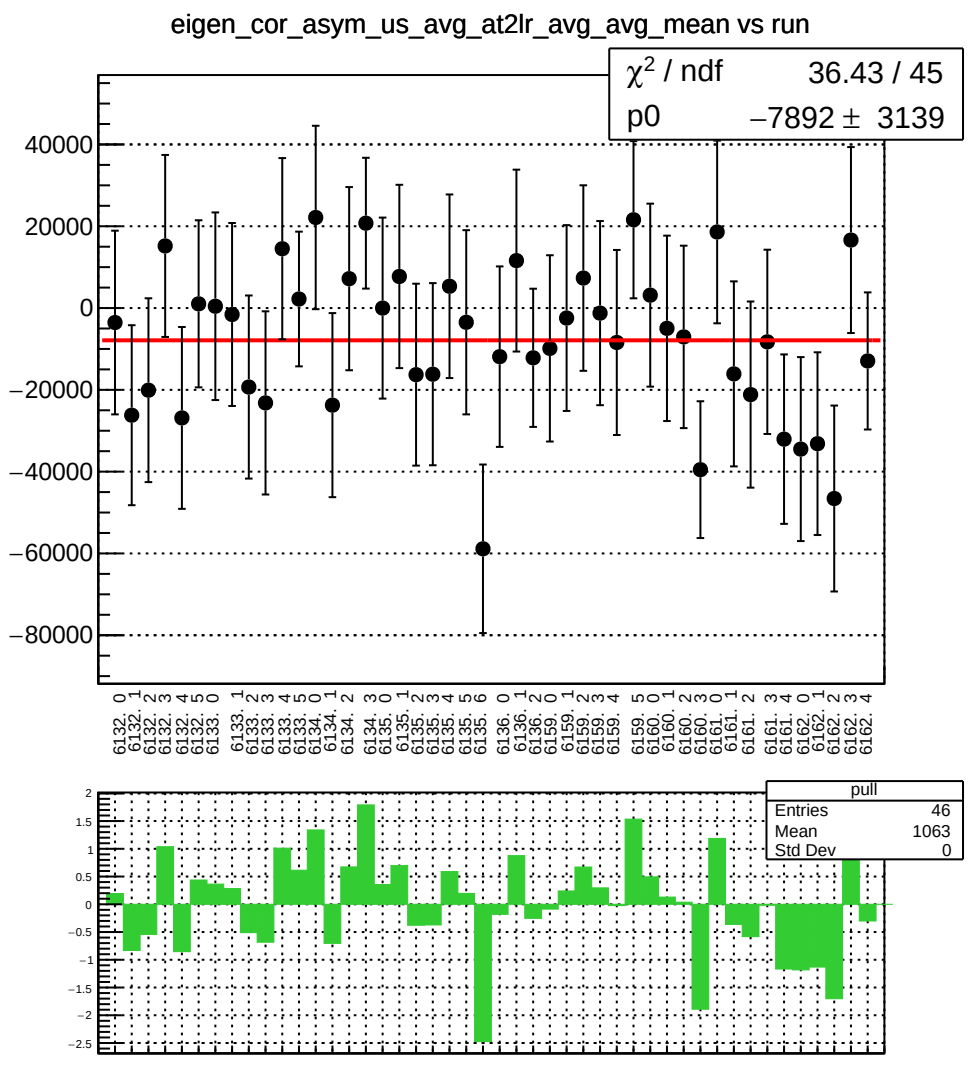
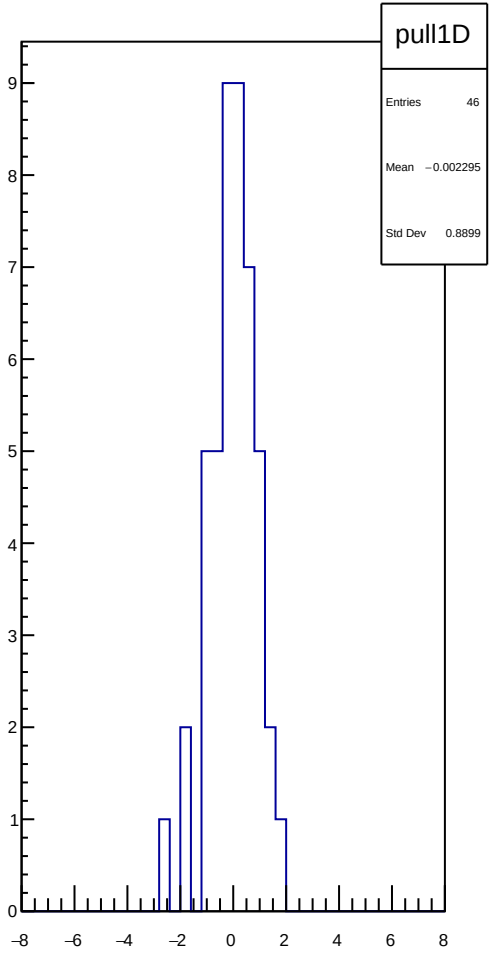
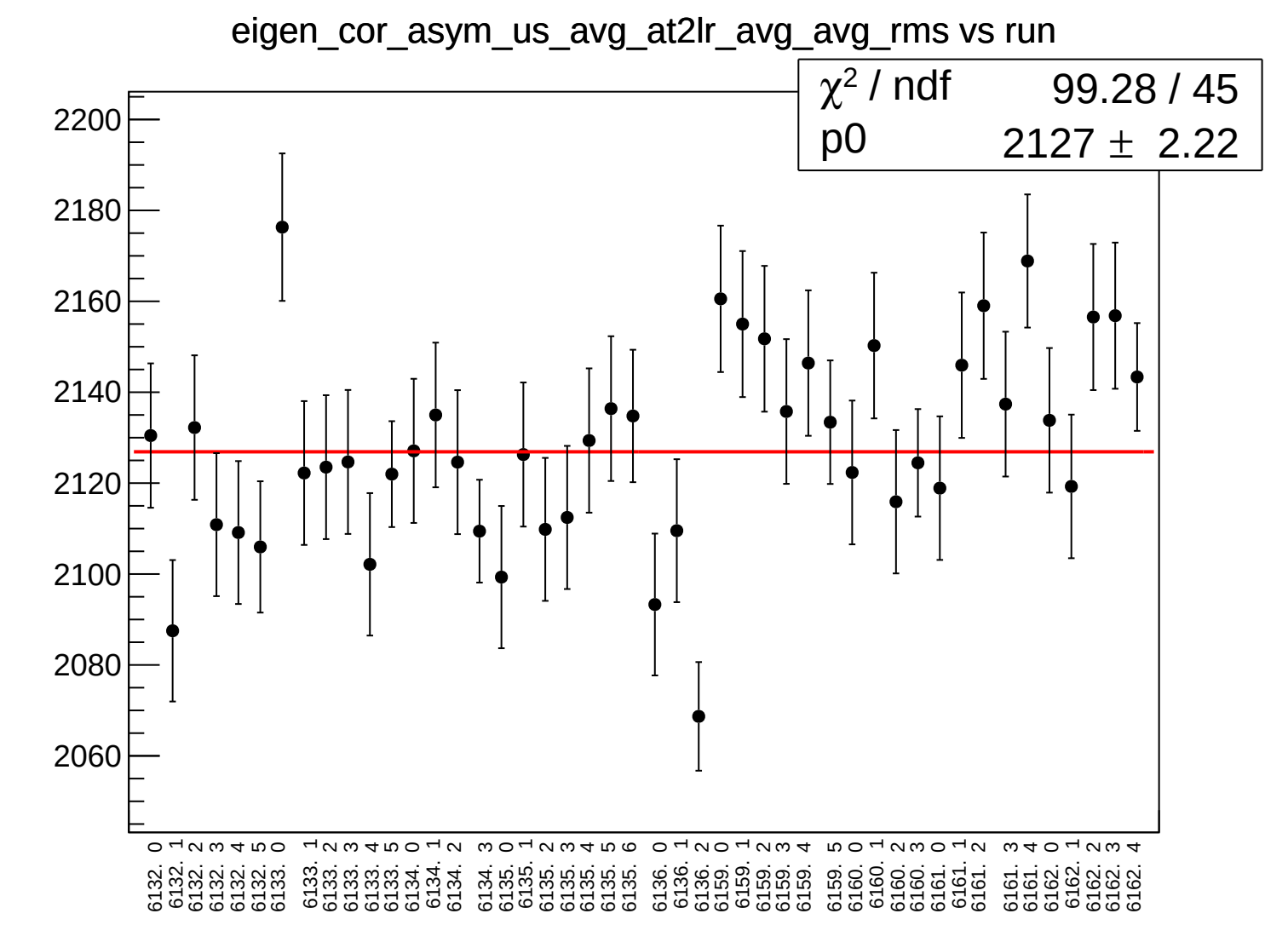
6162. 4


eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 36.43 / 45
p0 −7892 ± 3139
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 1063
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.002295
Std Dev 0.8899
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 99.28 / 45
p0 2127 ± 2.22
2200
2180
2160
2140
2120
2100
2080
2060
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
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6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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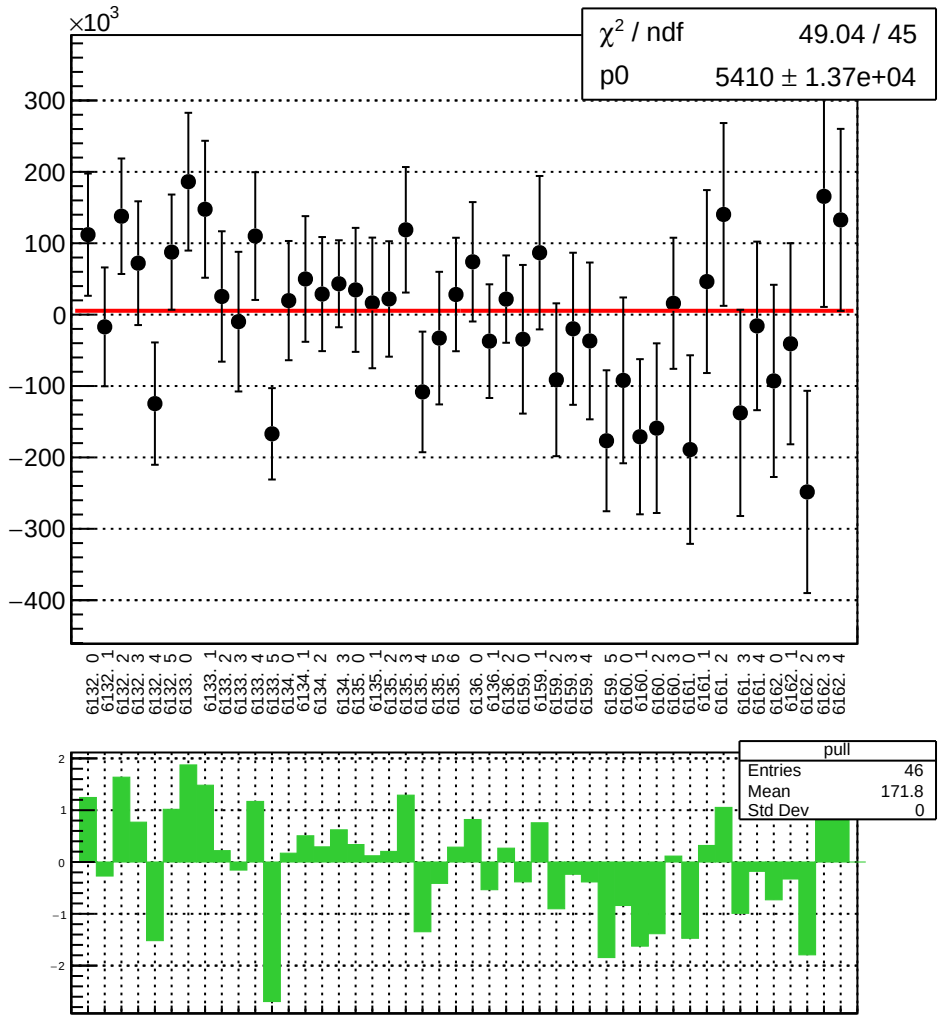
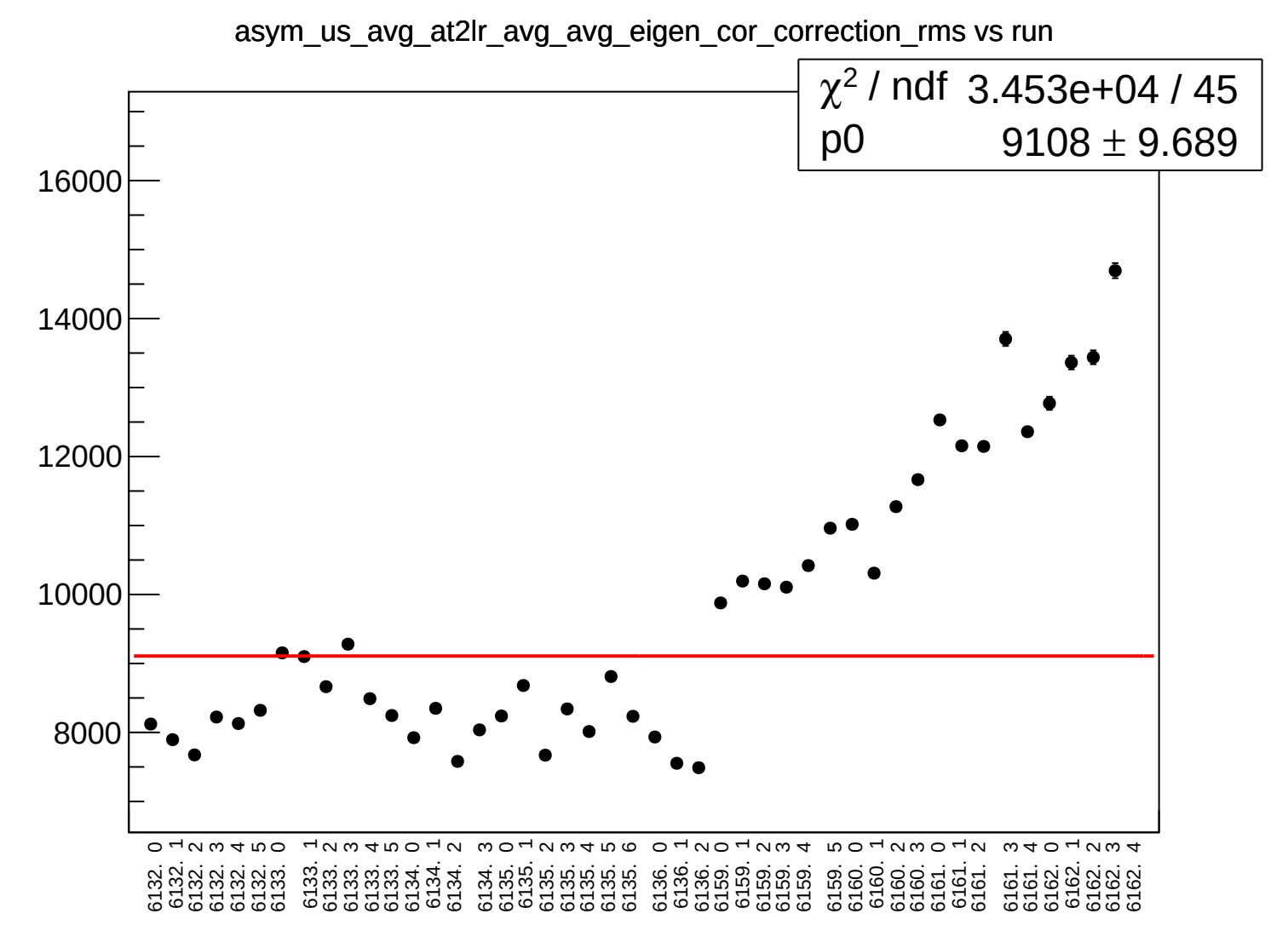
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 49.04 / 45
p0 5410 ± 1.37e+04
300
200
100
0
−100
−200
−300
−400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 171.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.03065
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.453e+04 / 45
p0 9108 ± 9.689
16000
14000
12000
10000
8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
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6135. 5
6135. 6
6136. 0
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6136. 2
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6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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6161. 4
6162. 0
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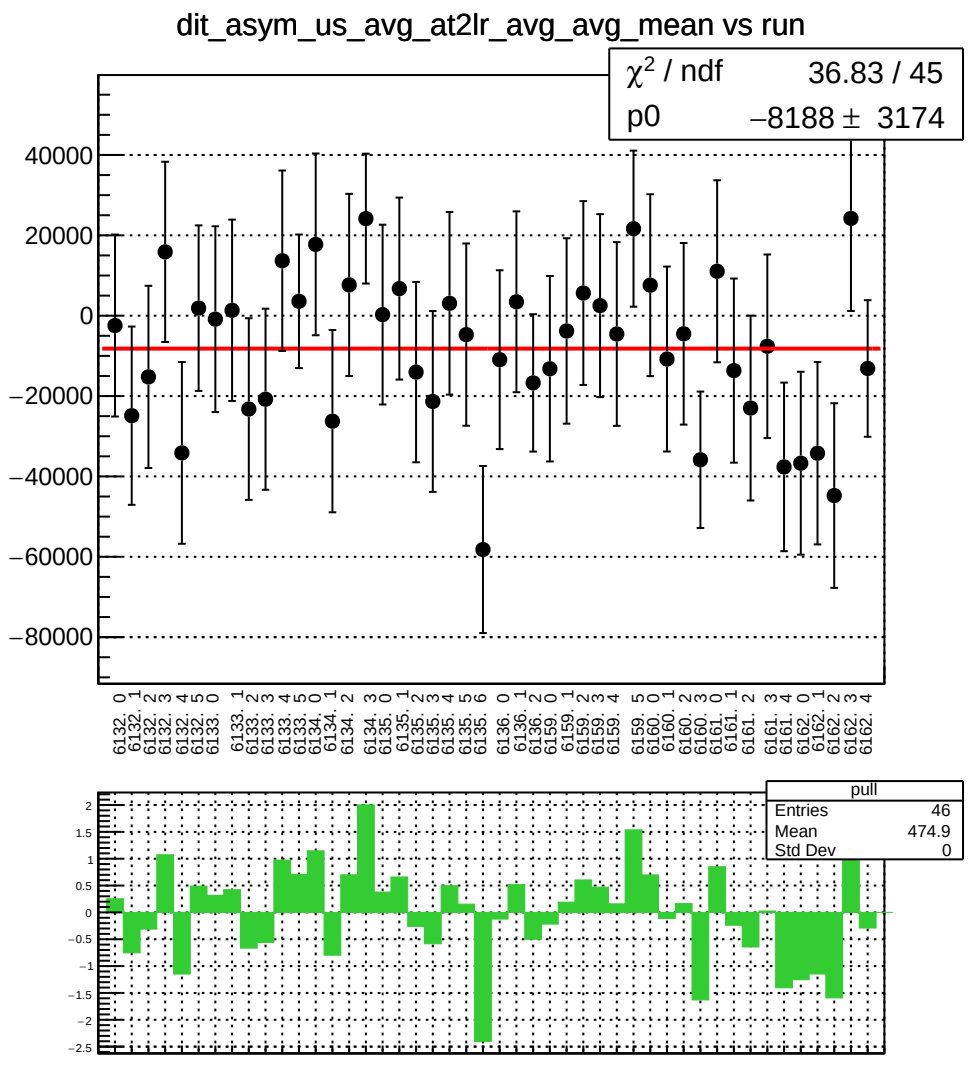
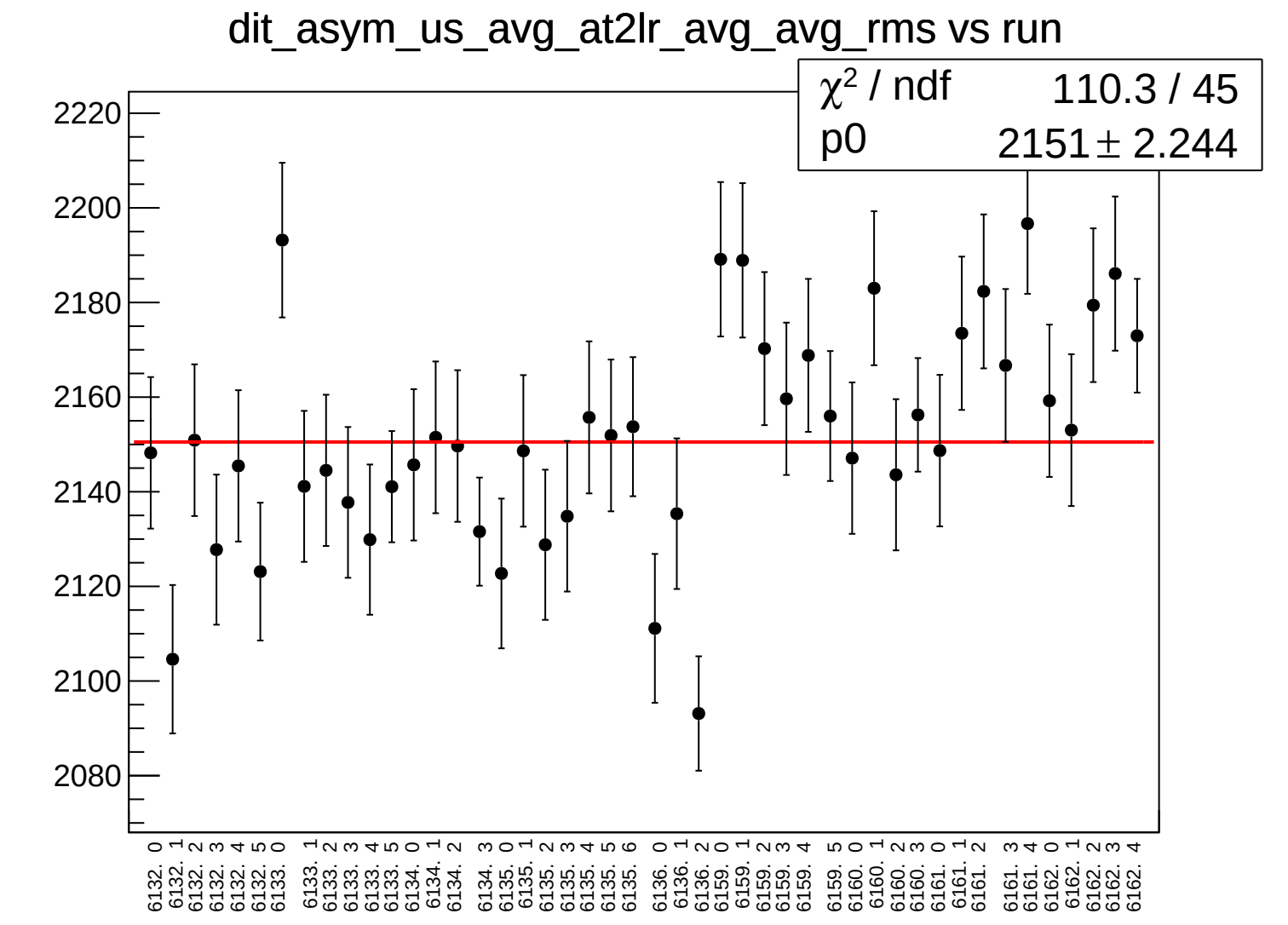
6162. 2
6162. 3
6162. 4


dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 36.83 / 45
p0 −8188 ± 3174
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 474.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.005212
Std Dev 0.8948
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 110.3 / 45
p0 2151 ± 2.244
2220
2200
2180
2160
2140
2120
2100
2080
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
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6135. 2
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6135. 4
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6135. 6
6136. 0
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6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
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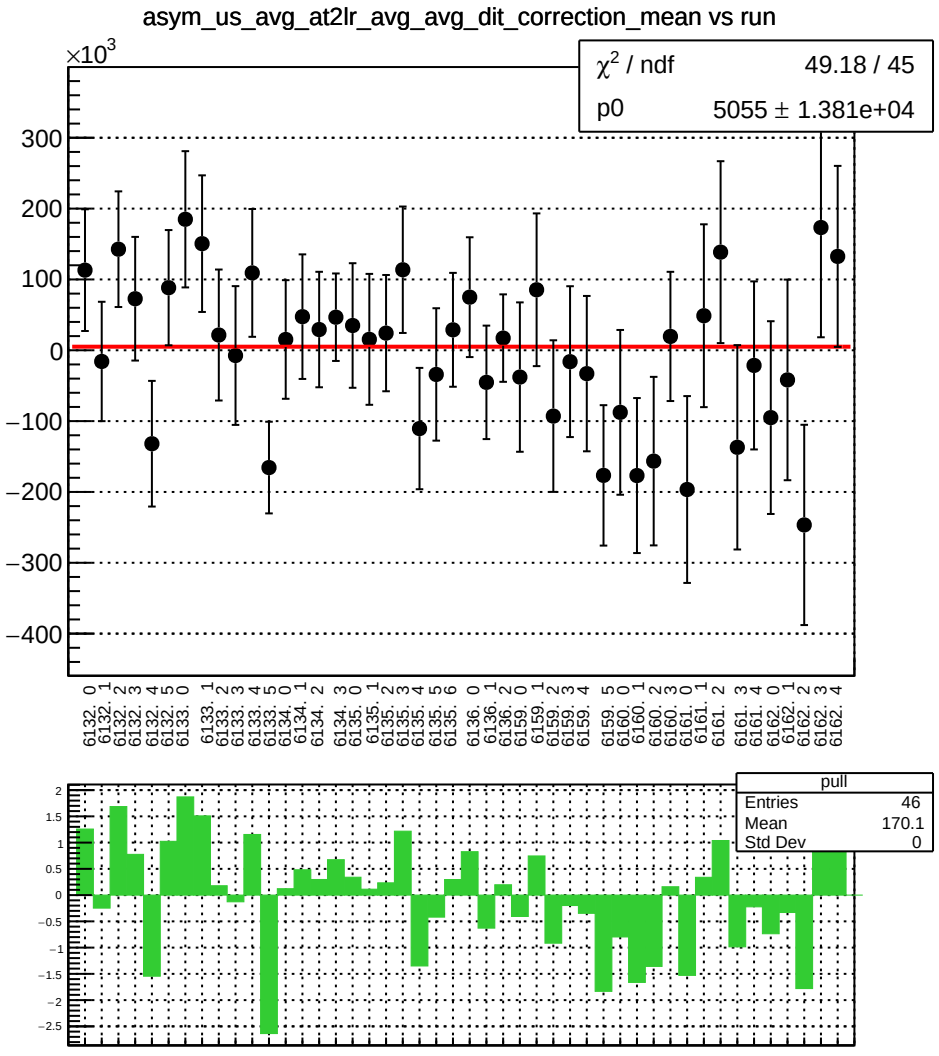
6162. 4


asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 49.18 / 45
p0 5055 ± 1.381e+04
300
200
100
0
−100
−200
−300
−400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 2
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6135. 6
6136. 0
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6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 170.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.03115
Std Dev 1.033
10
8
6
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−4
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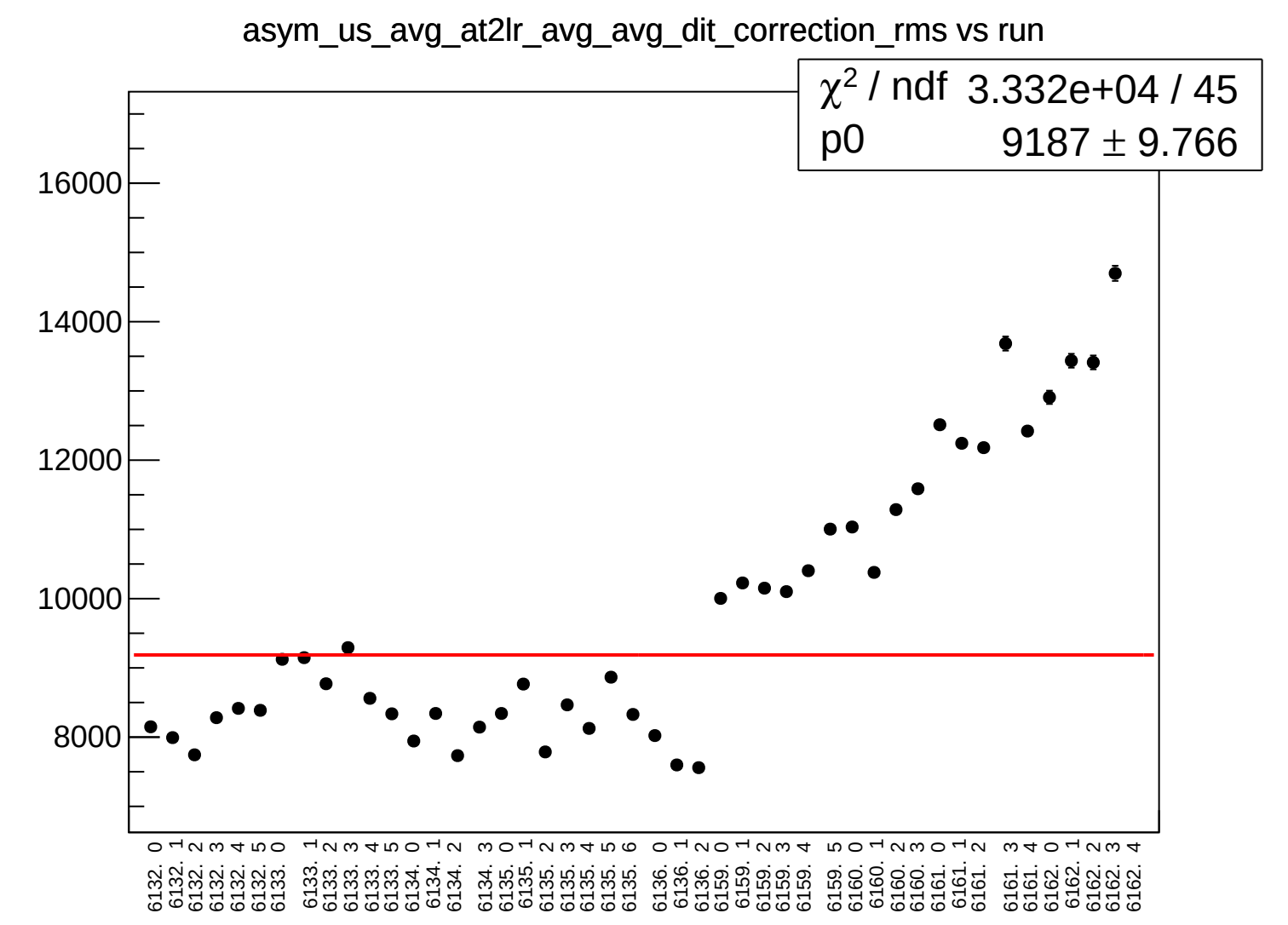
2
4
6
8


asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 3.332e+04 / 45
p0 9187 ± 9.766
16000
14000
12000
10000
8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
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6133. 5
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6135. 6
6136. 0
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6136. 2
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
6161. 3
6161. 4
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6162. 1
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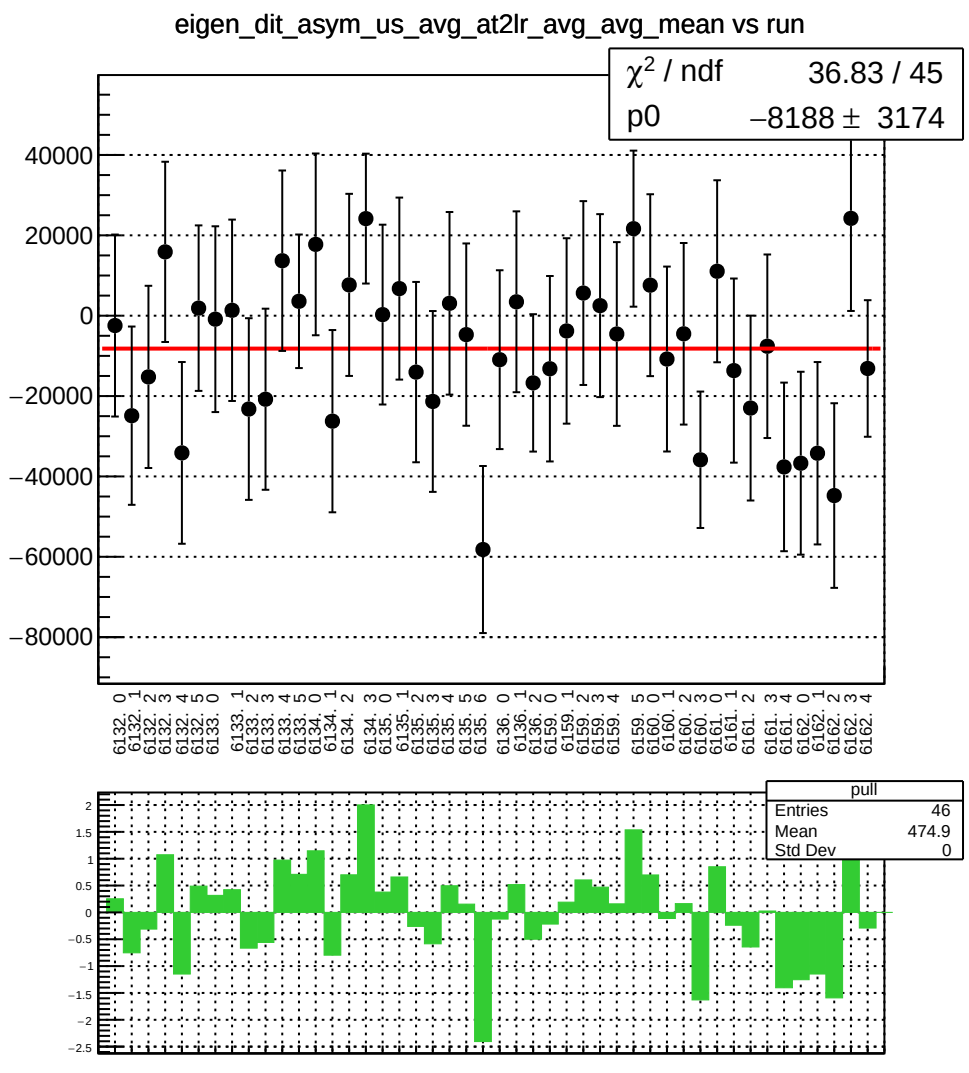
6162. 3
6162. 4


eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 36.83 / 45
p0 −8188 ± 3174
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
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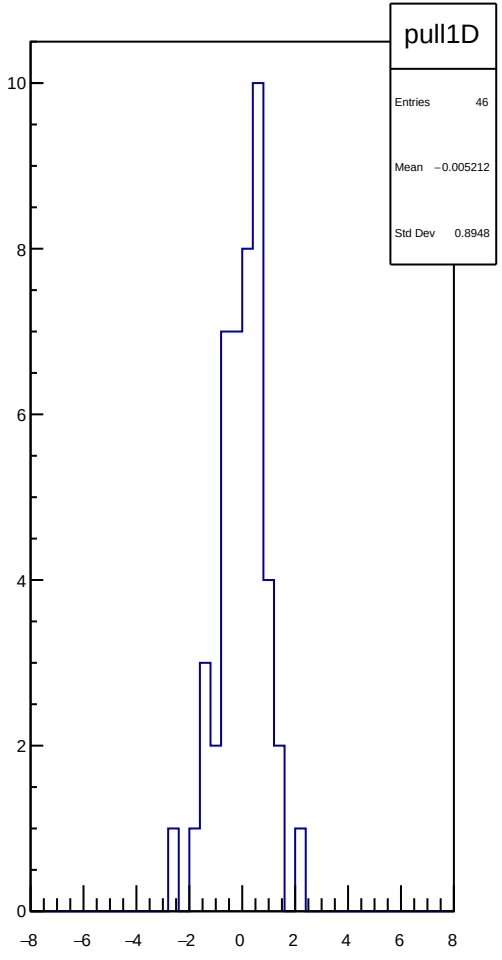
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 474.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.005212
Std Dev 0.8948
10
8
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2
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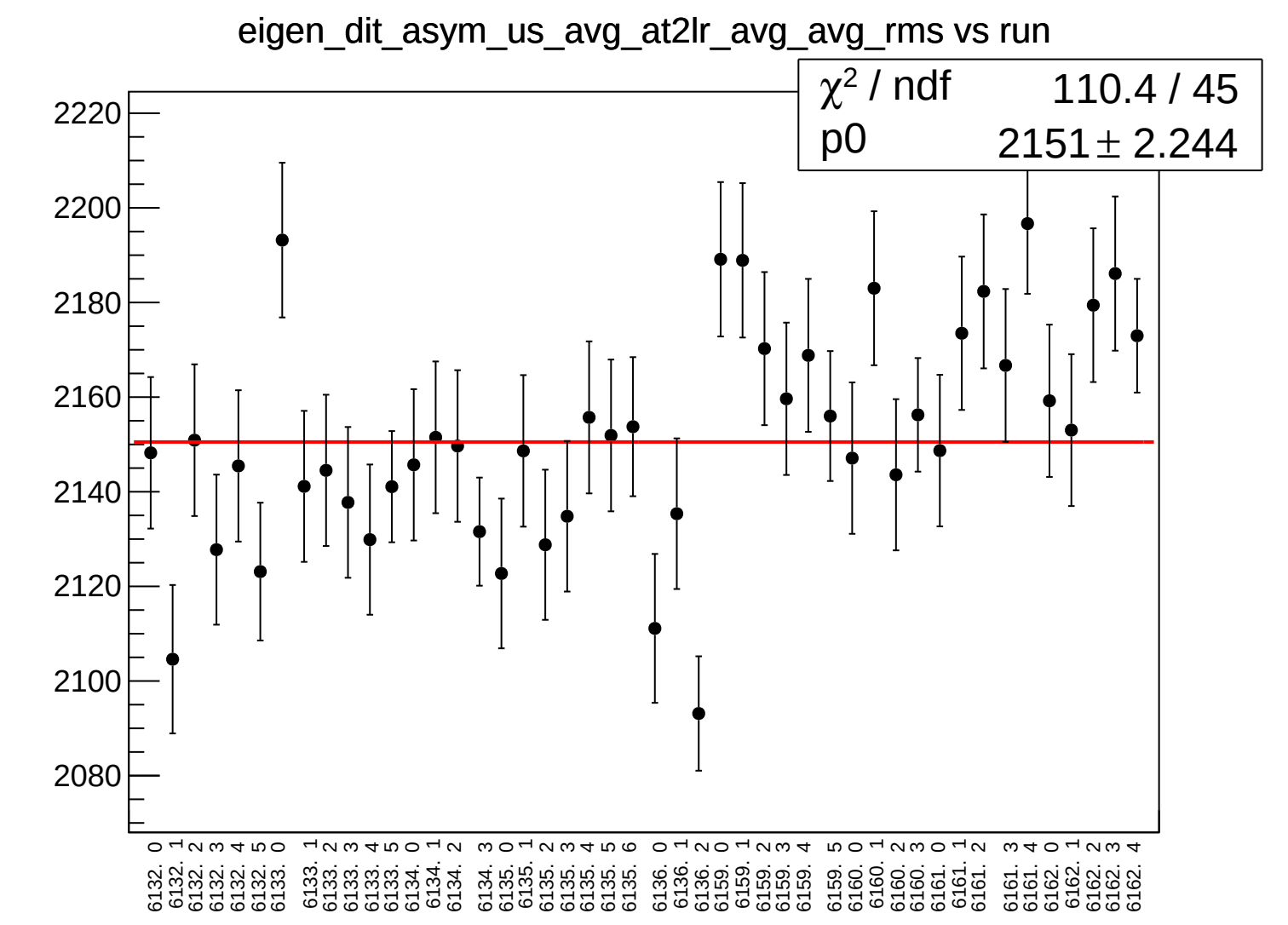
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 110.4 / 45
p0 2151 ± 2.244
2220
2200
2180
2160
2140
2120
2100
2080
6132. 0
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6132. 4
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6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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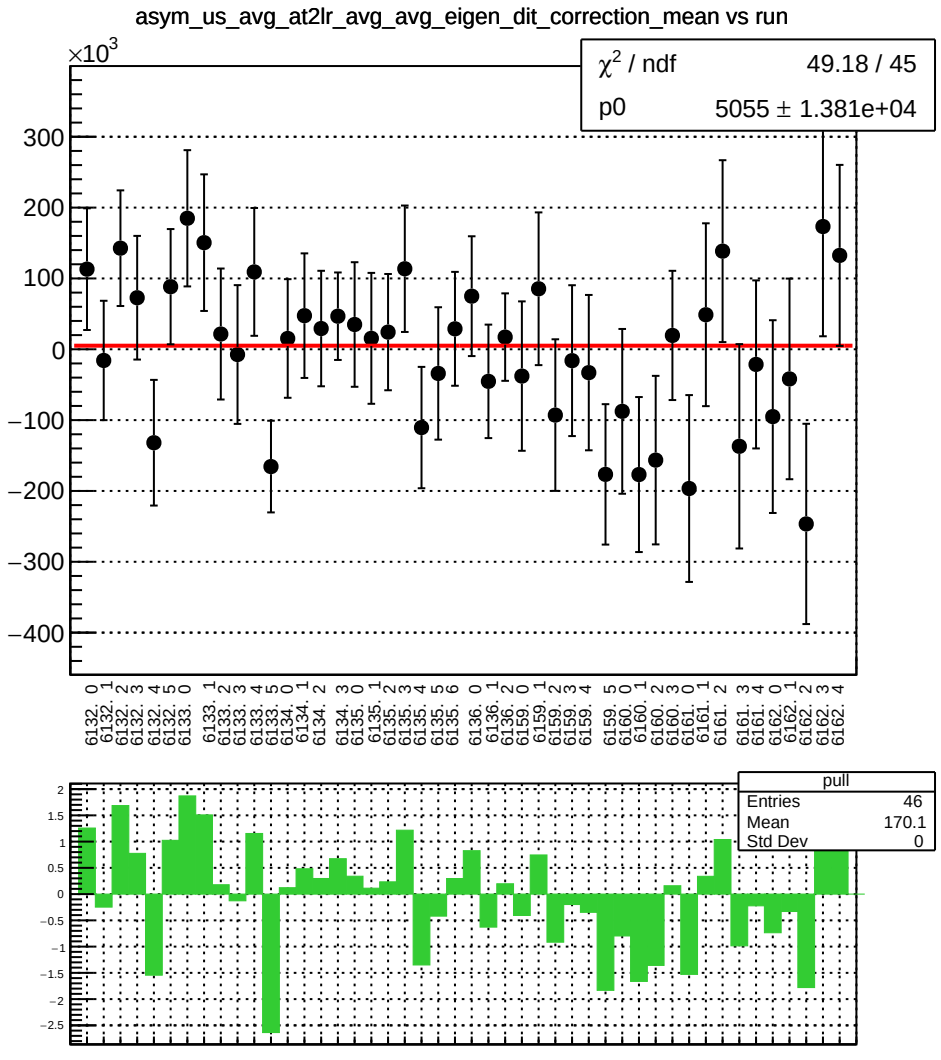
asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 49.18 / 45
p0 5055 ± 1.381e+04
300
200
100
0
−100
−200
−300
−400
6132. 0
6132. 1
6132. 2
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6135. 6
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6162. 0
6162. 1
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6162. 4
pull
Entries 46
Mean 170.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.03115
Std Dev 1.033
10
8
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2
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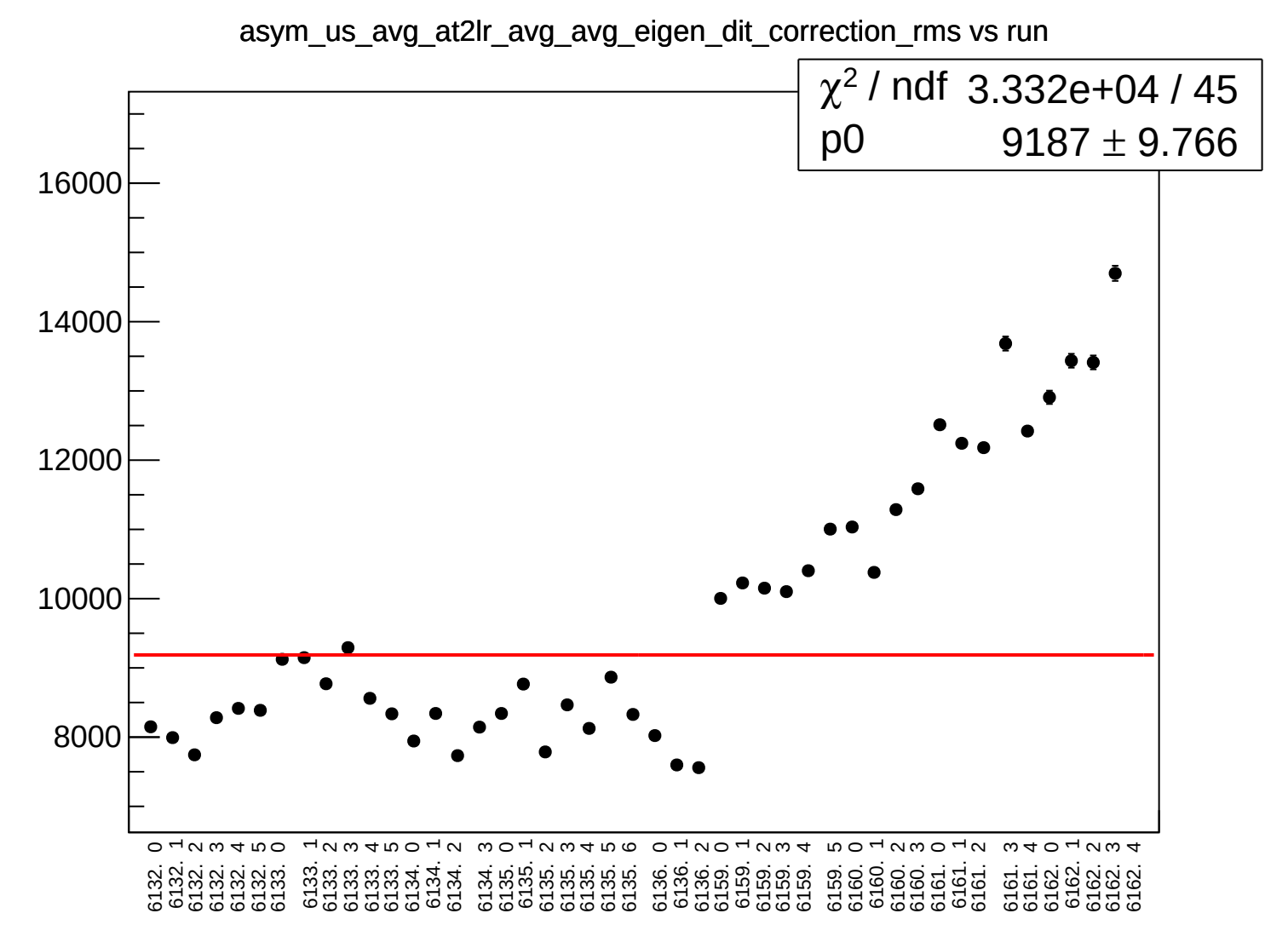
2
4
6
8


asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.332e+04 / 45
p0 9187 ± 9.766
16000
14000
12000
10000
8000
6132. 0
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6162. 0
6162. 1
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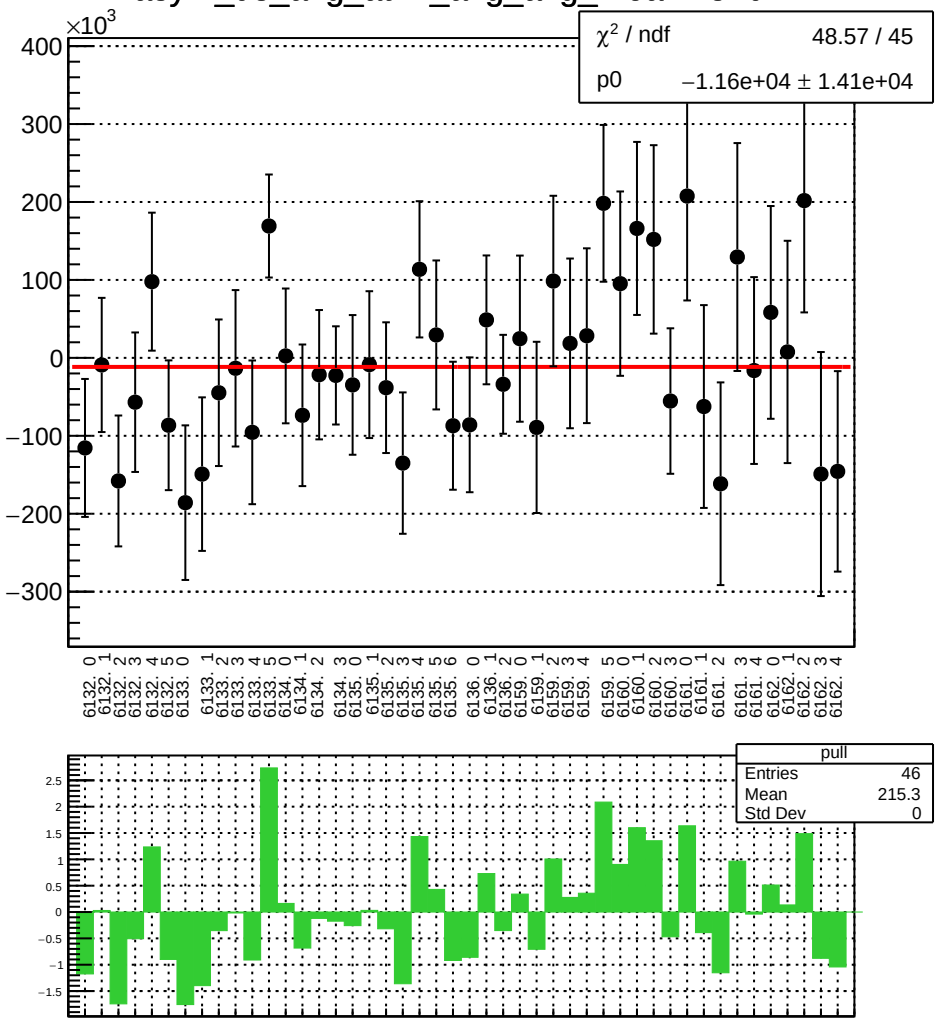
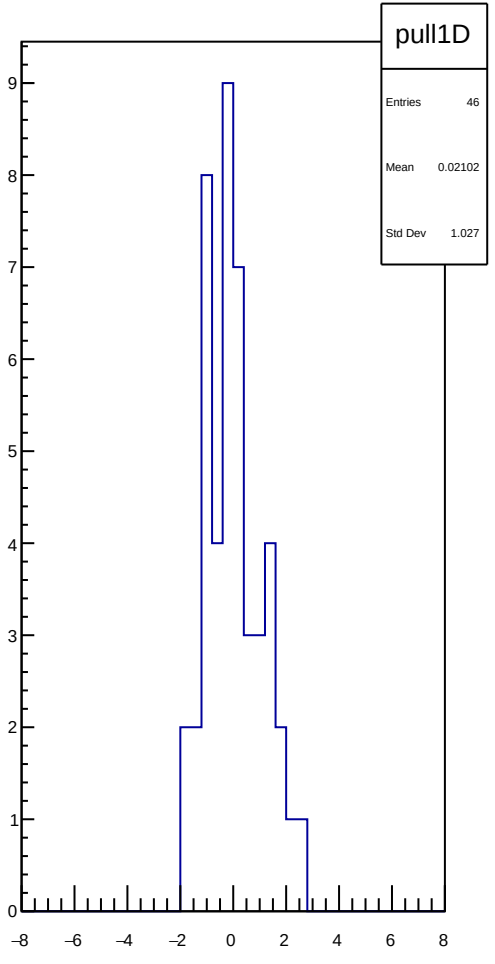
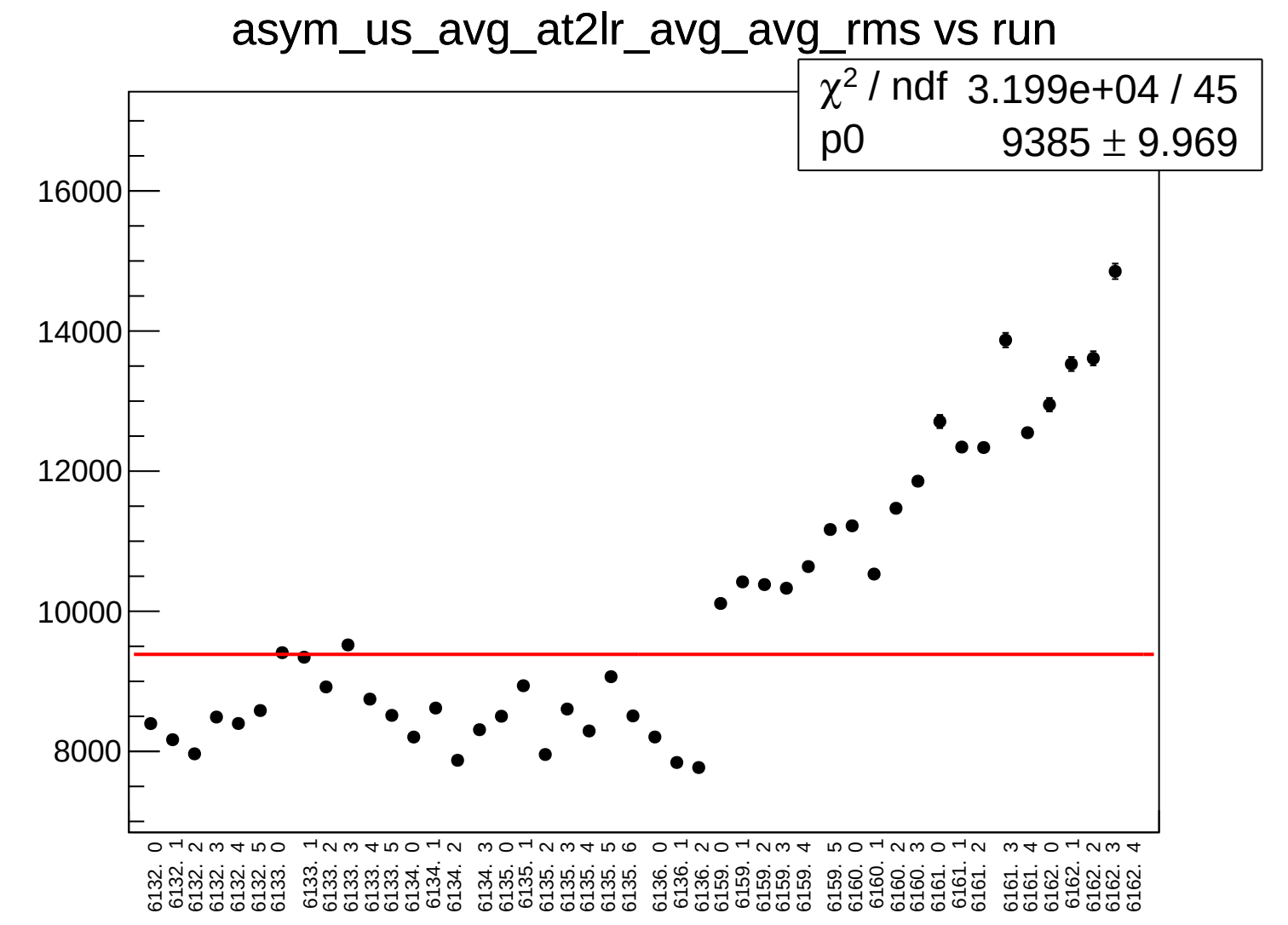
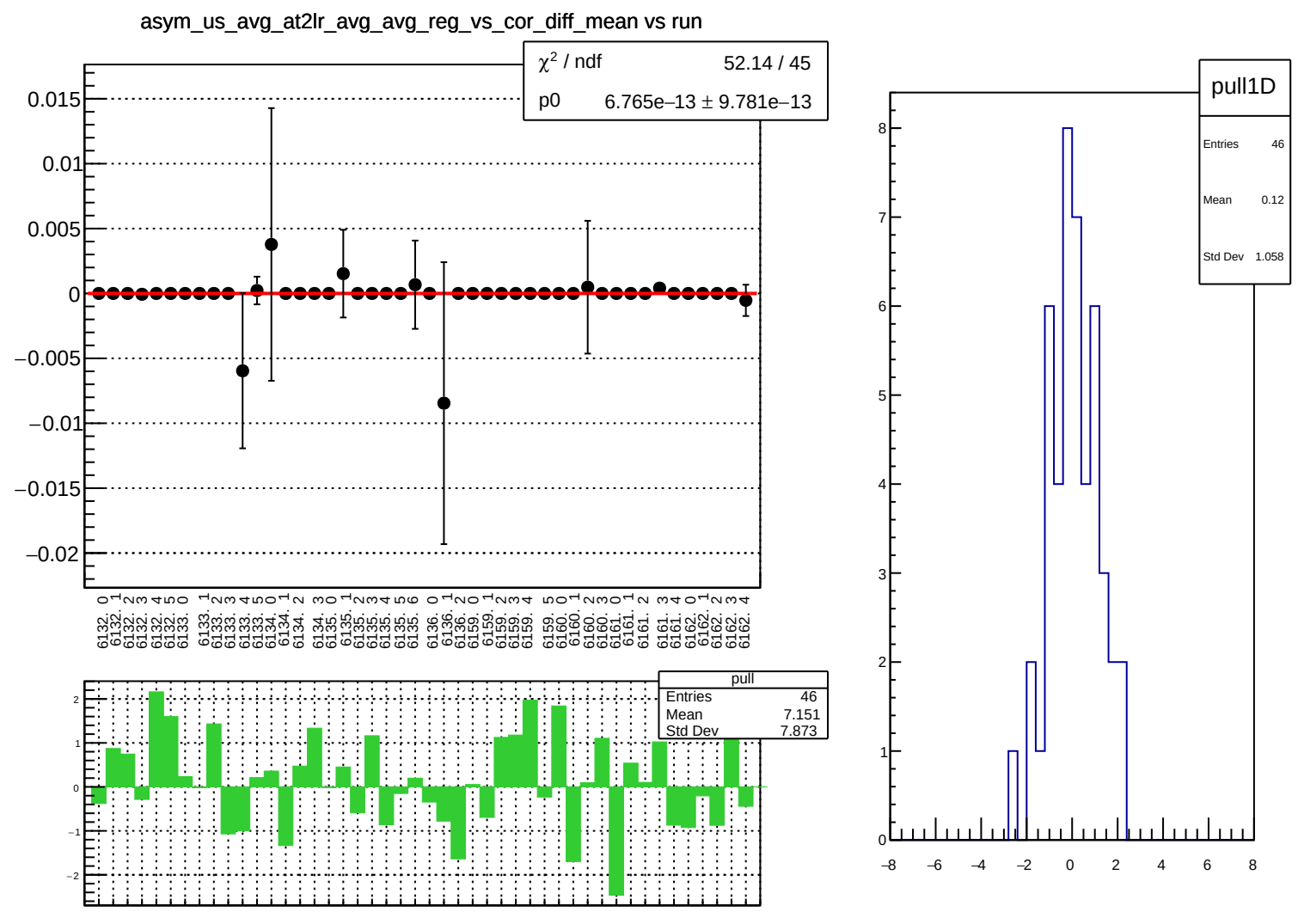
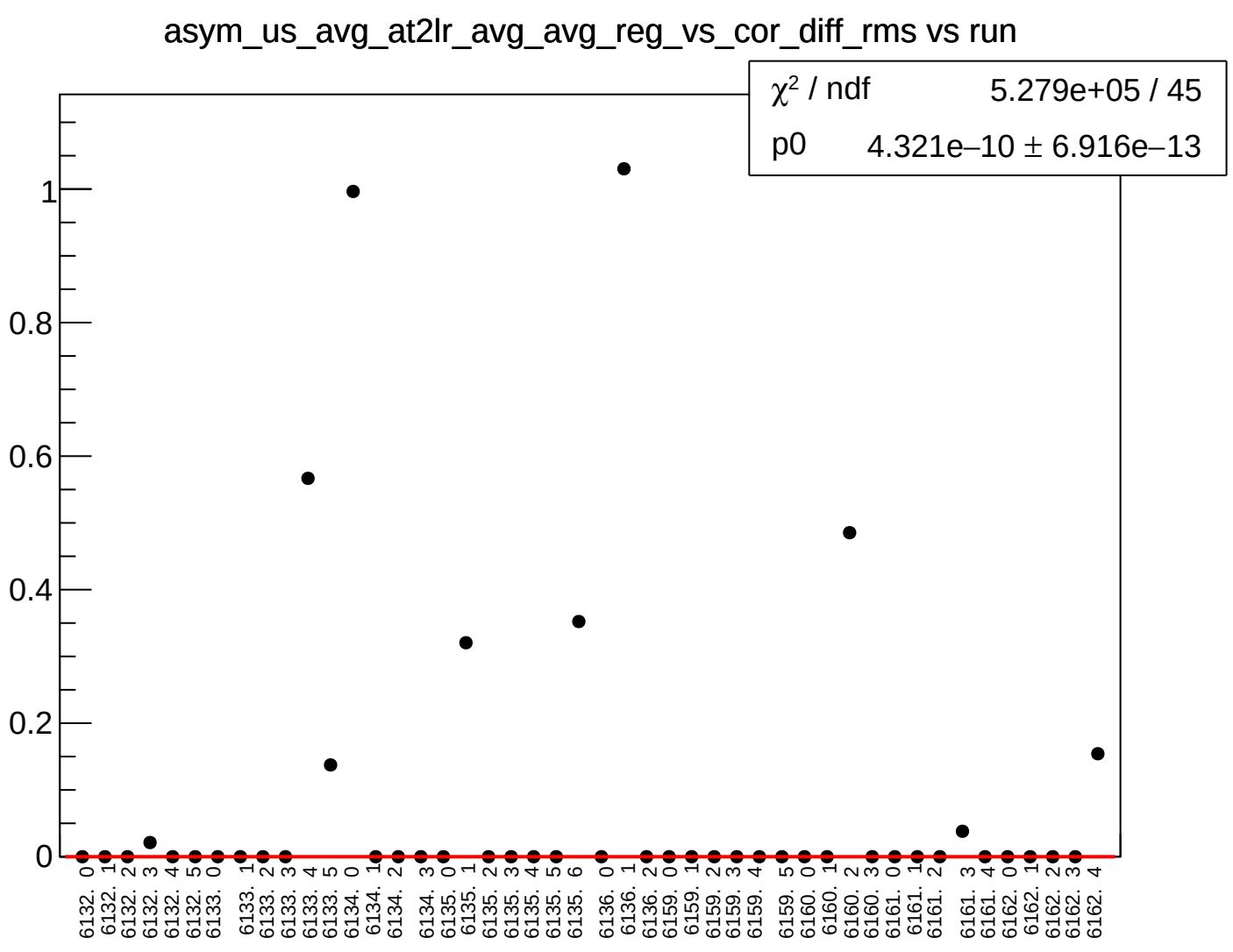
6162. 3
6162. 4

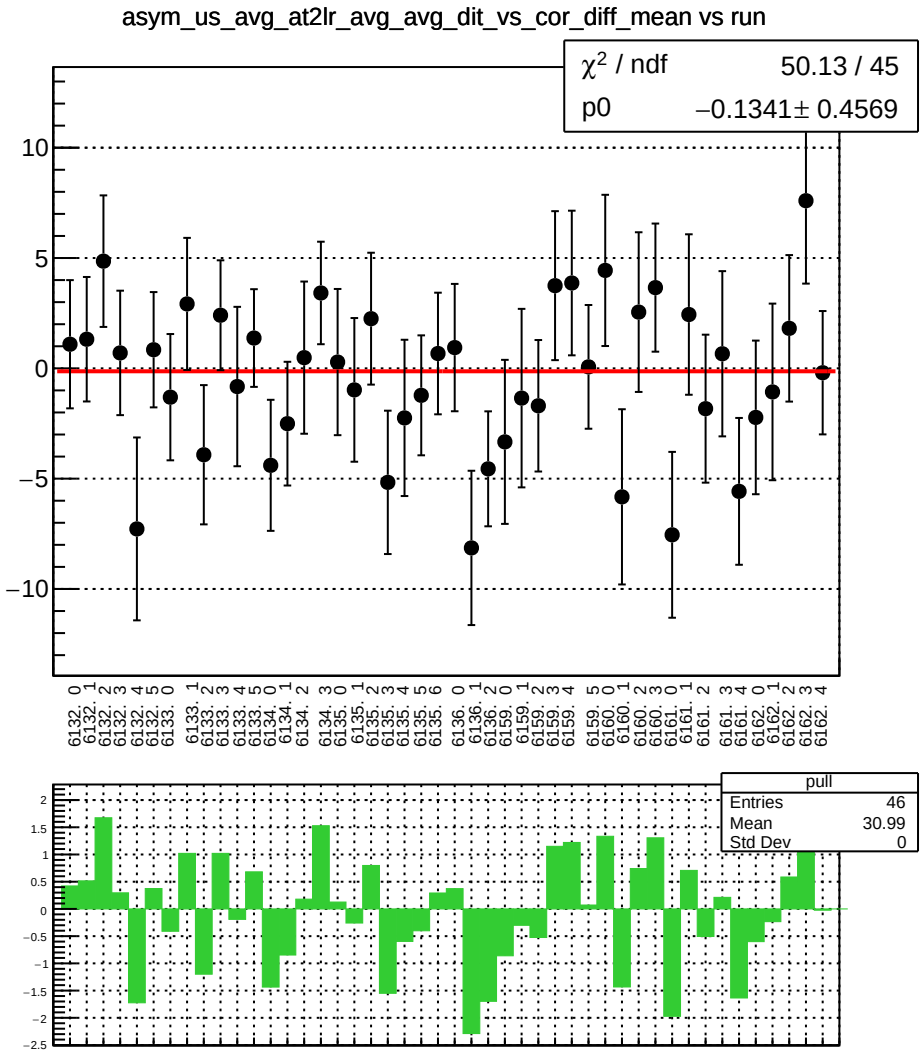

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 48.57 / 45
p0 −1.16e+04 ± 1.41e+04
pull
Entries 46
Mean 215.3
Std Dev 0

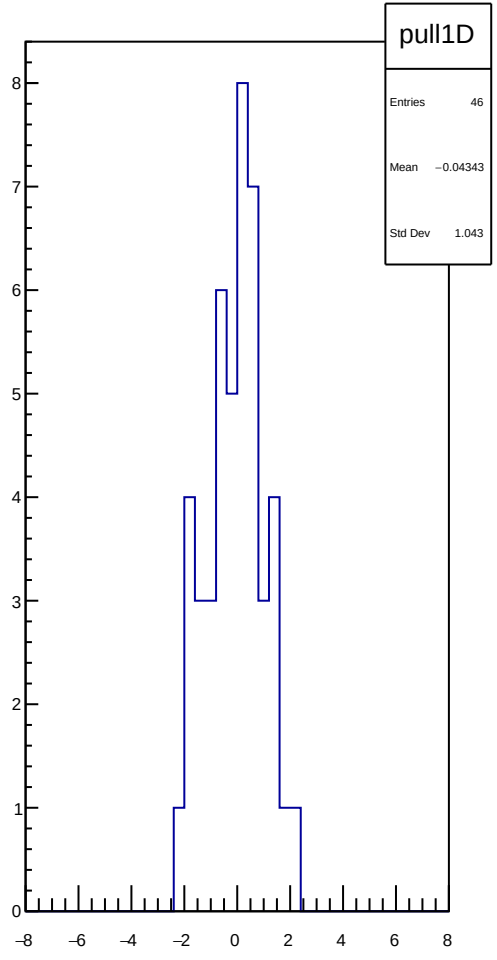

pull1D
Entries 46
Mean 0.02102
Std Dev 1.027

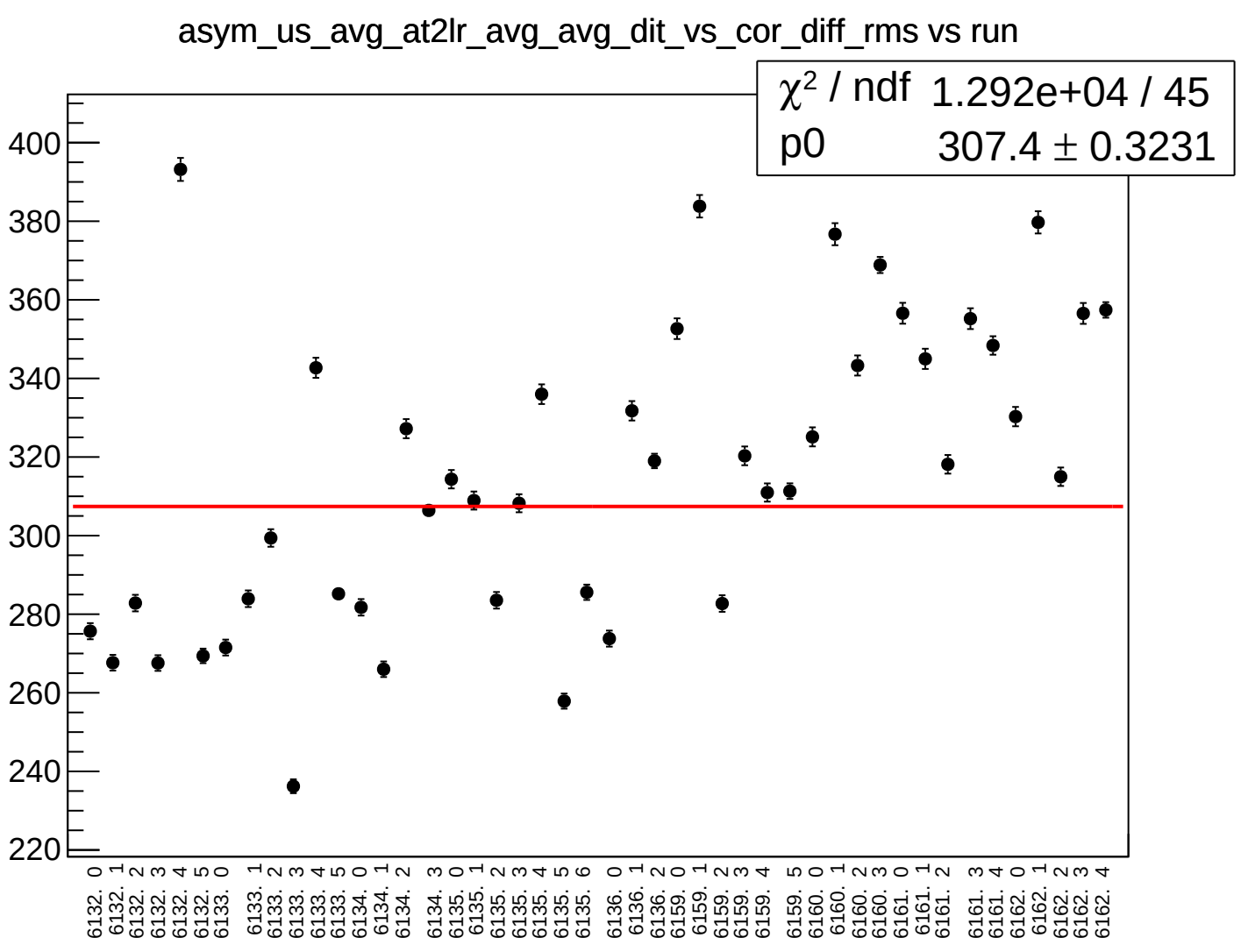

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 3.199e+04 / 45
p0 9385 ± 9.969
16000
14000
12000
10000
8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

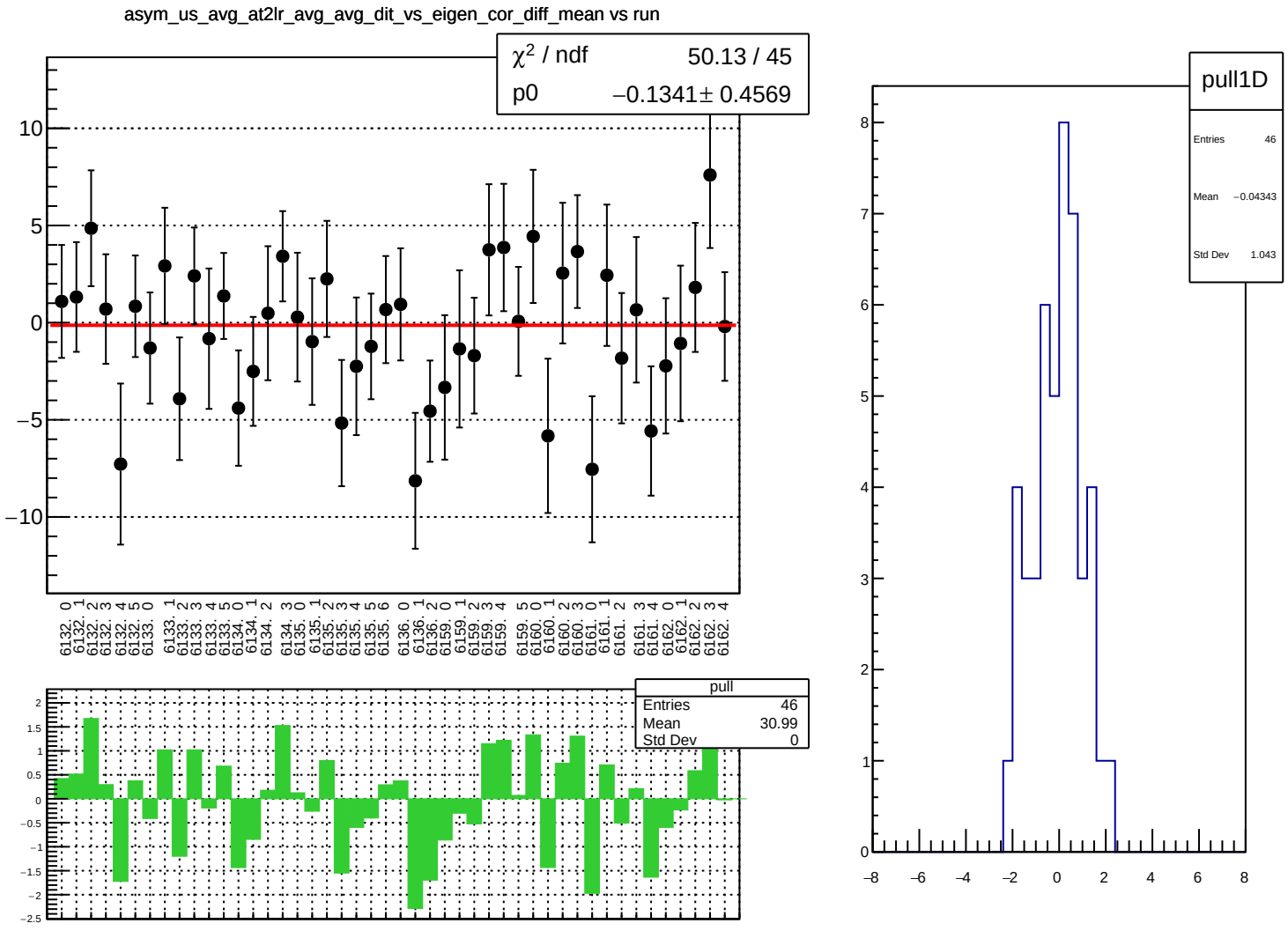

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 52.14 / 45
p0 6.765e−13 ± 9.781e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 7.151
Std Dev 7.873
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.12
Std Dev 1.058
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

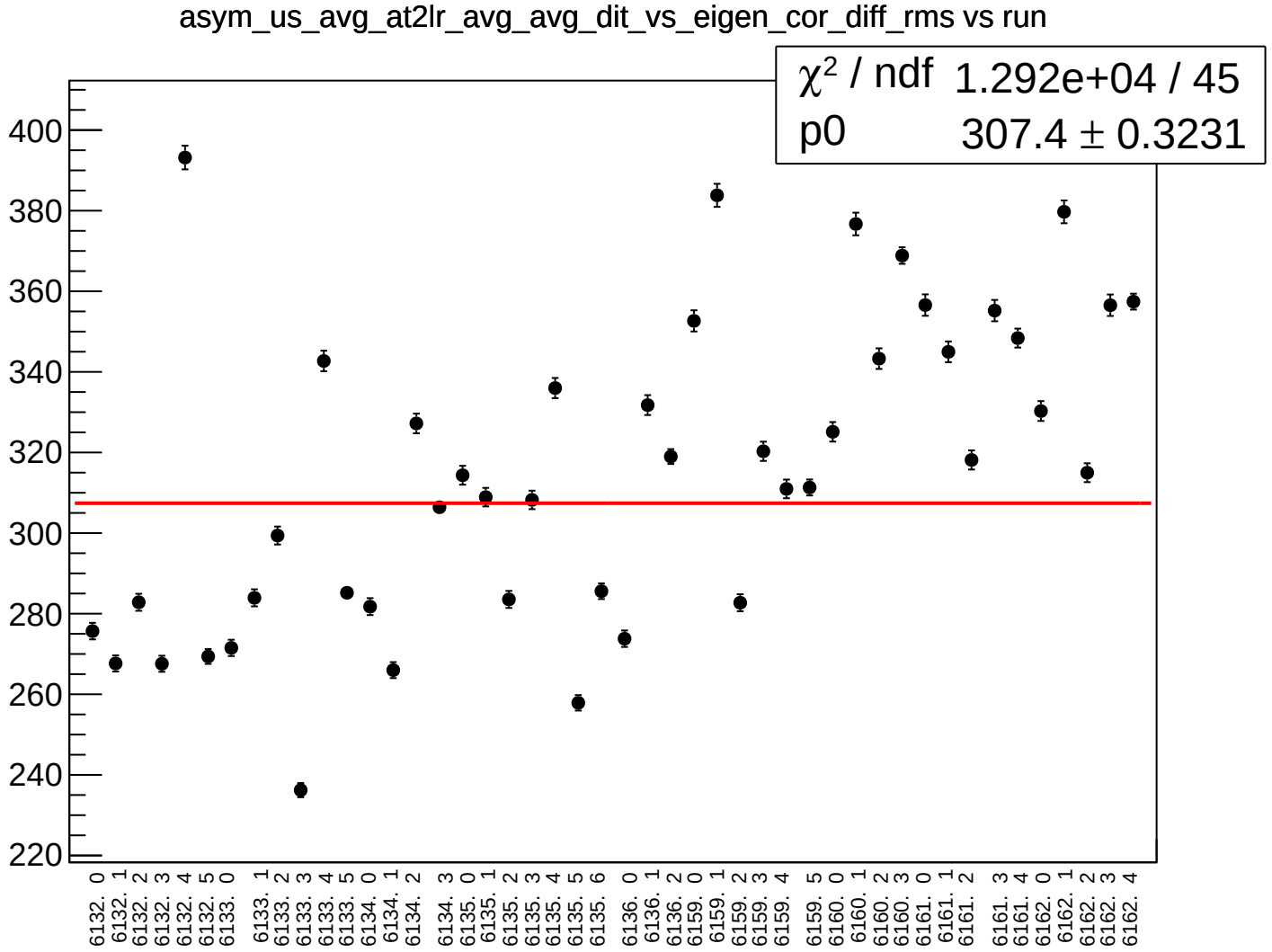

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.279e+05 / 45
p0 4.321e−10 ± 6.916e−13
1
0.8
0.6
0.4
0.2
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

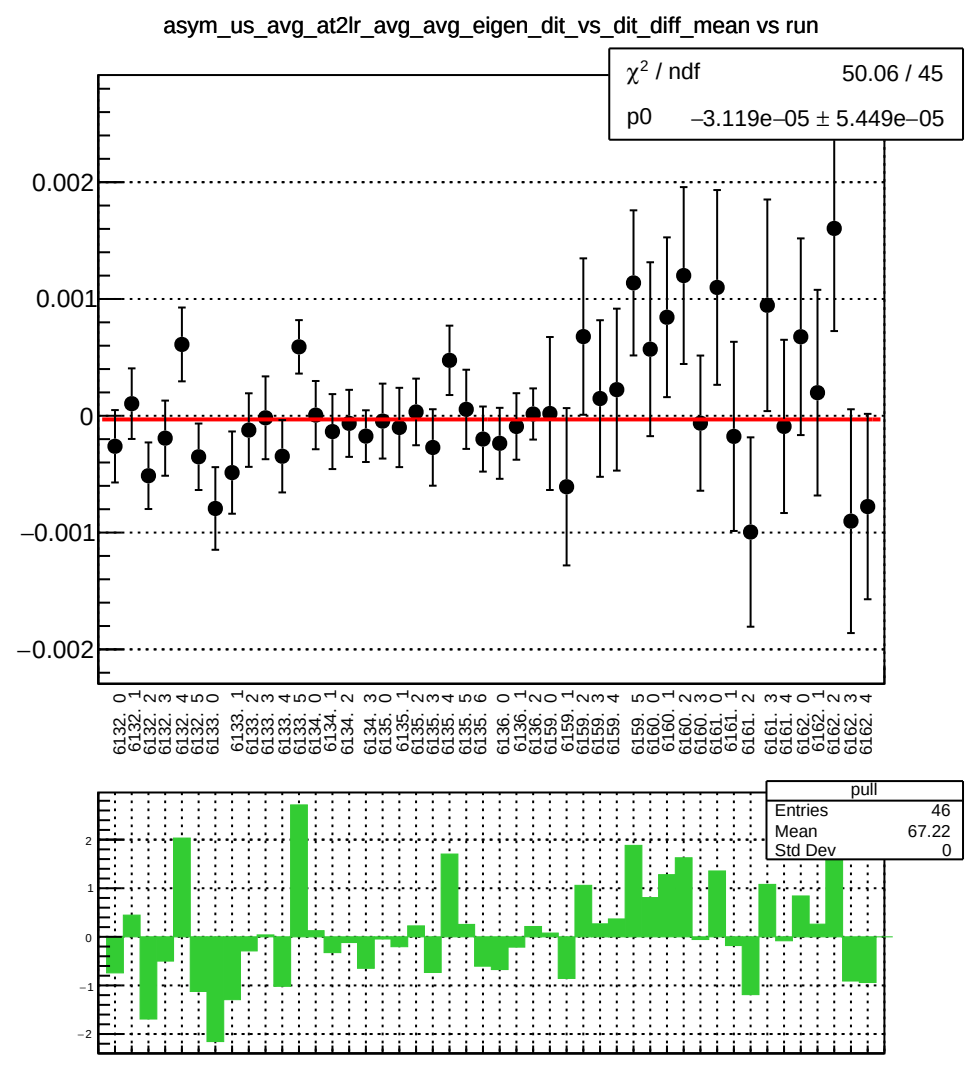

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 50.13 / 45
p0 −0.1341± 0.4569
pull
Entries 46
Mean 30.99
Std Dev 0

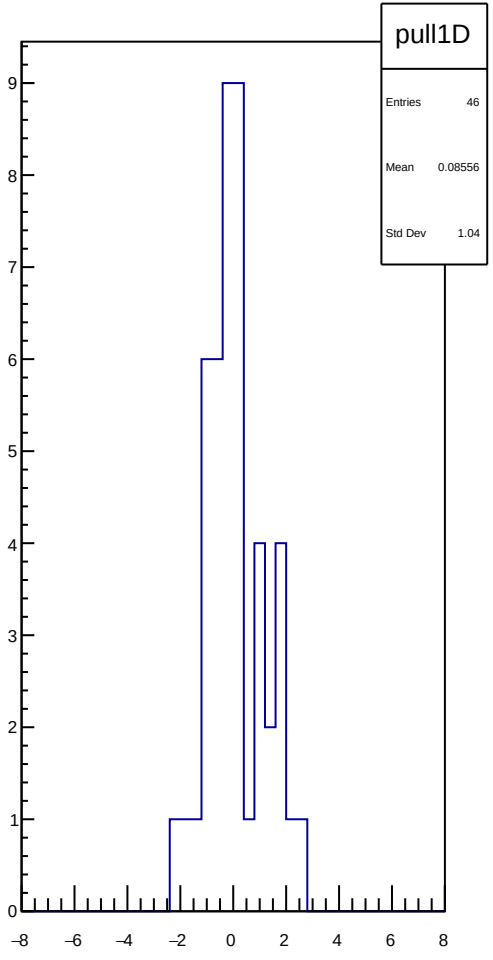

pull1D
Entries 46
Mean −0.04343
Std Dev 1.043

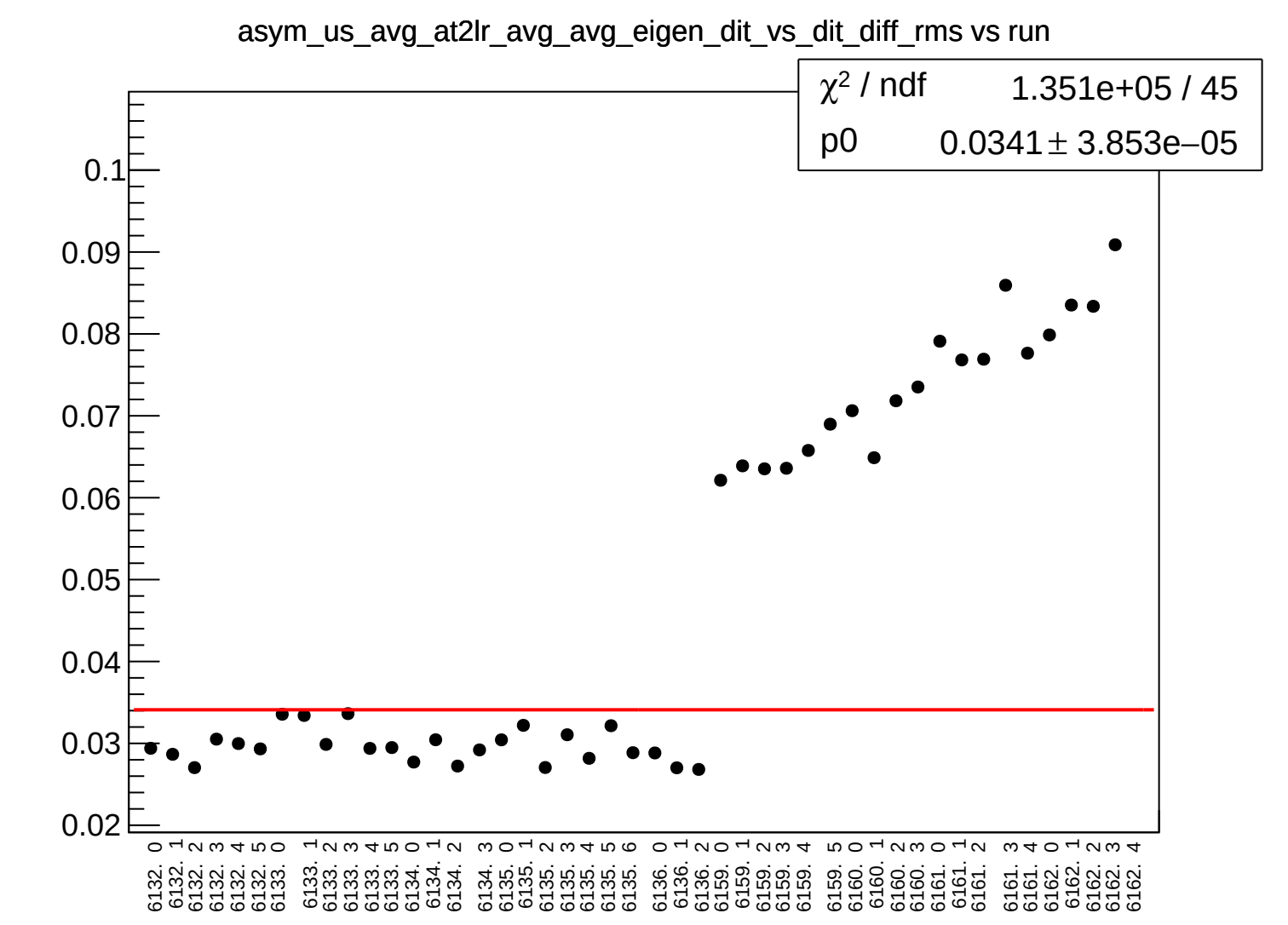

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.292e+04 / 45
p0 307.4 ± 0.3231
400
380
360
340
320
300
280
260
240
220
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

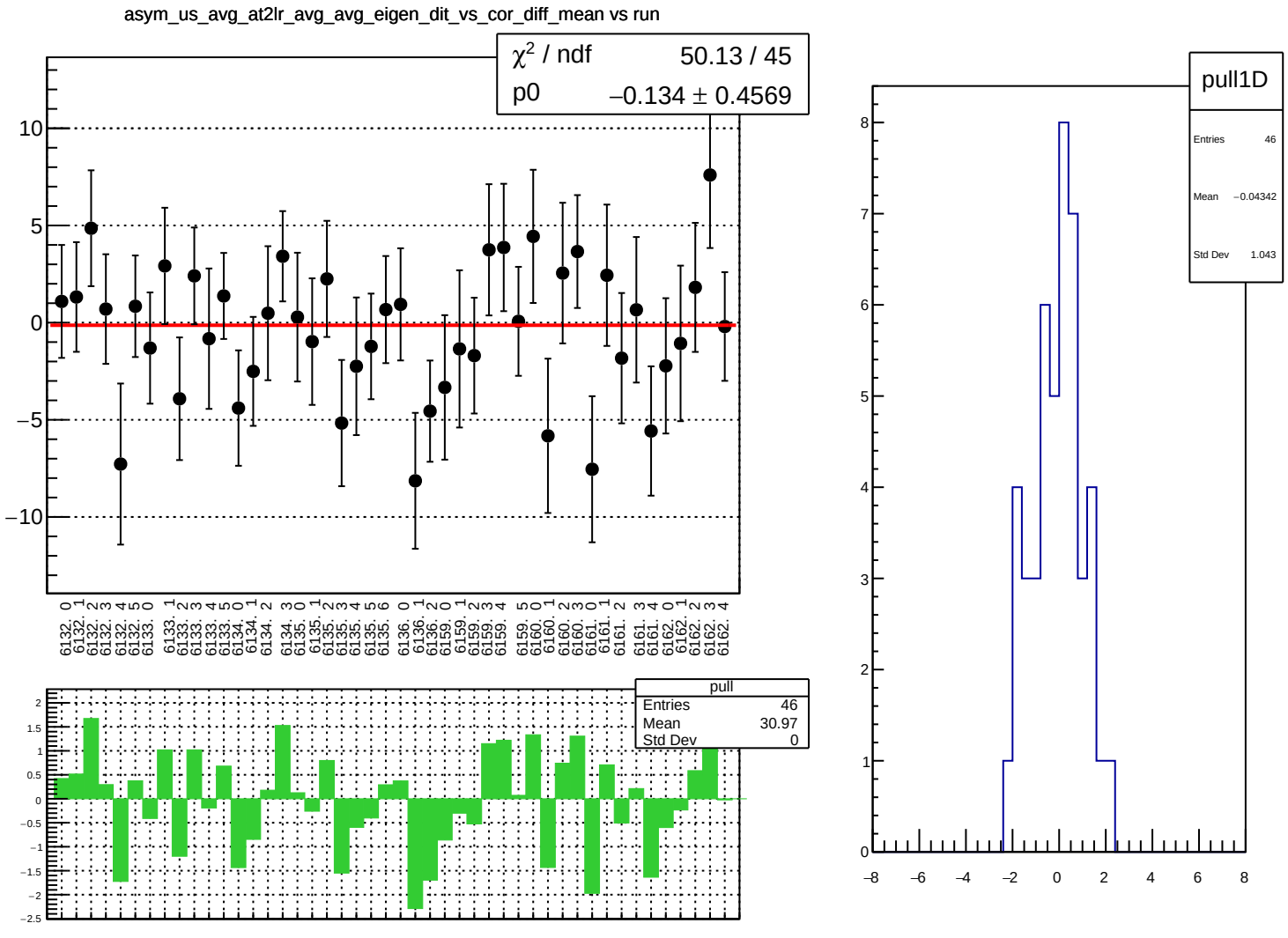

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.13 / 45
p0 −0.1341± 0.4569
pull
Entries 46
Mean 30.99
Std Dev 0
pull1D
Entries 46
Mean −0.04343
Std Dev 1.043

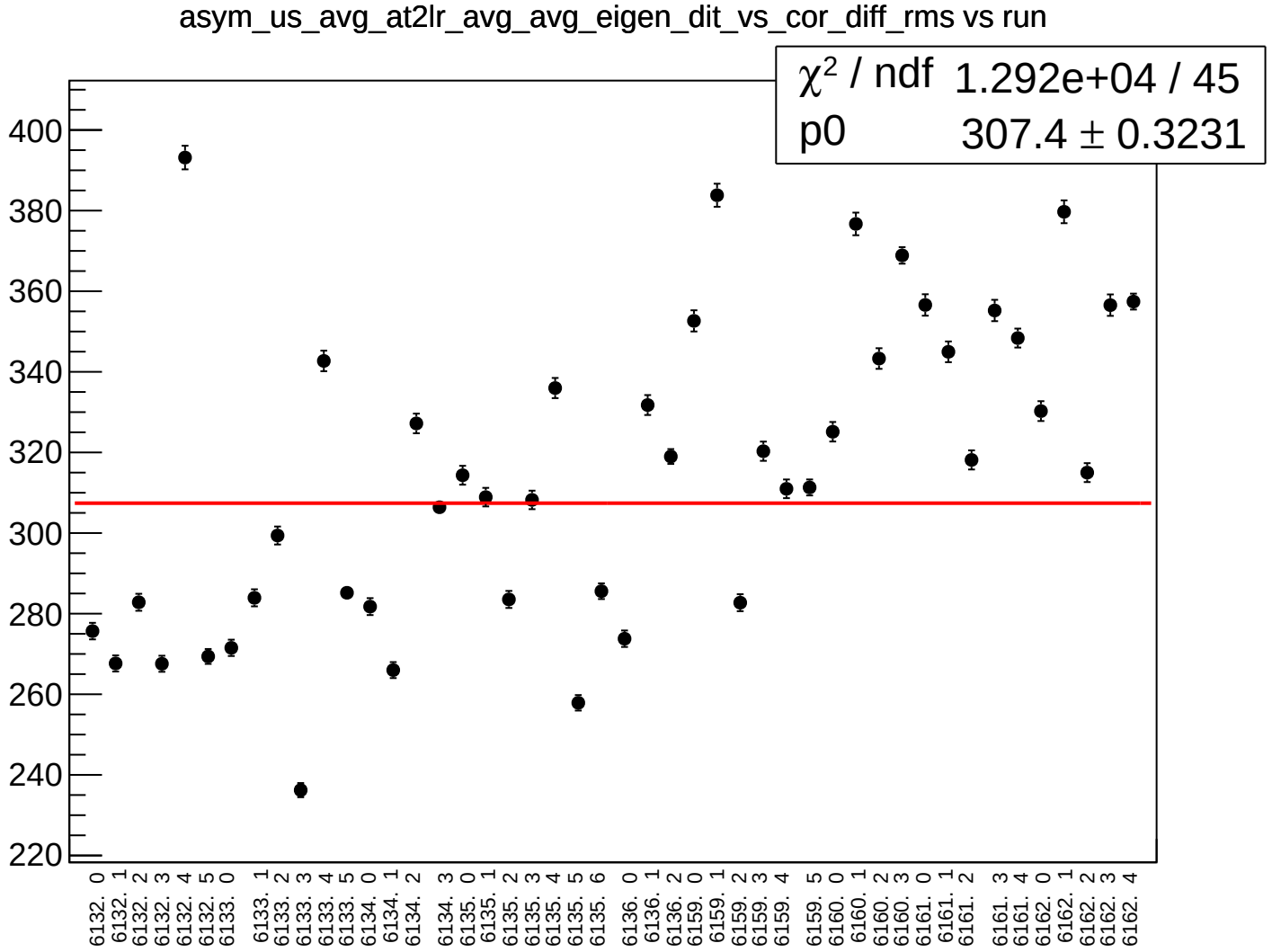

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.292e+04 / 45
p0 307.4 ± 0.3231
400
380
360
340
320
300
280
260
240
220
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

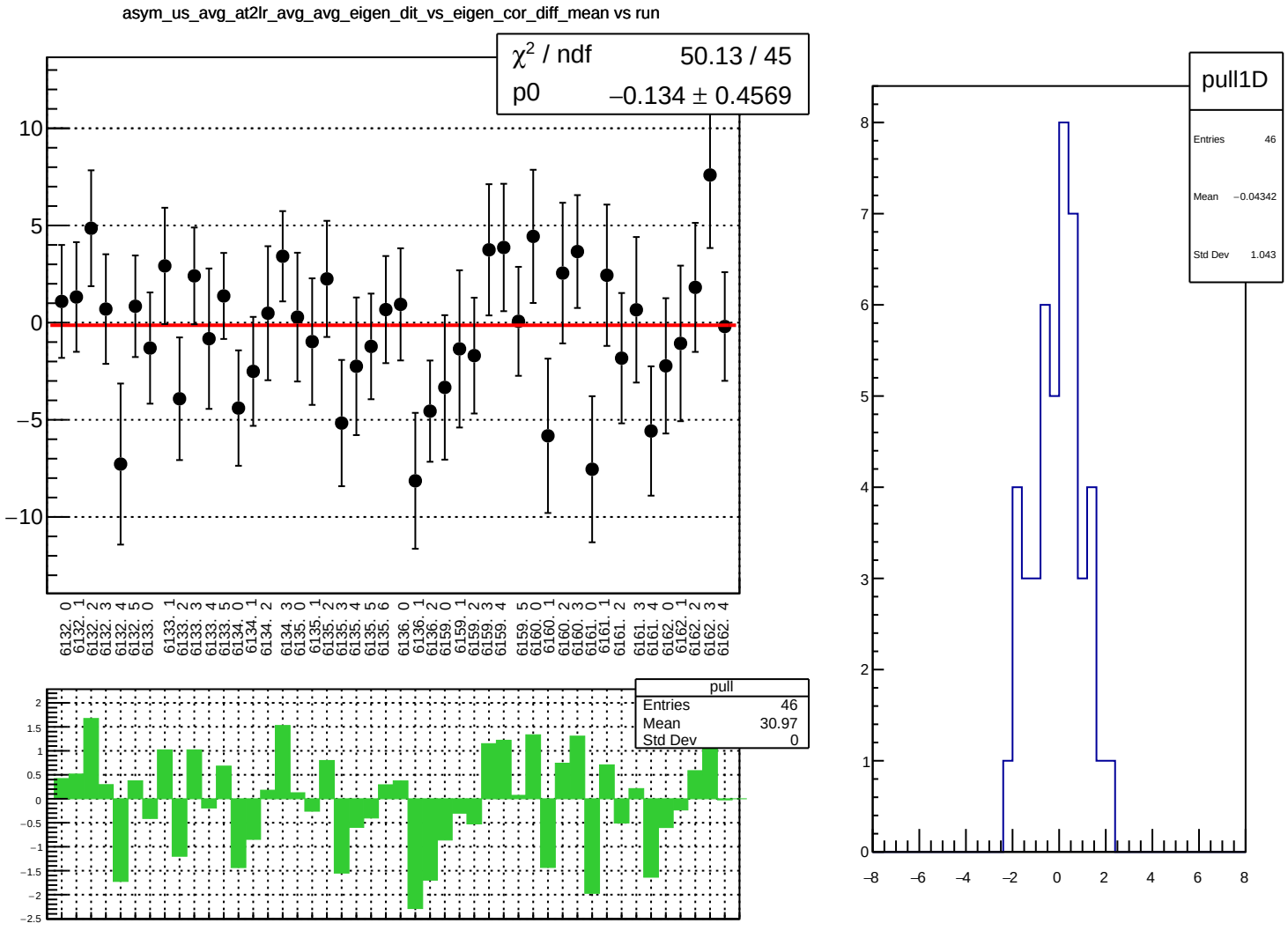

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 50.06 / 45
p0 −3.119e−05 ± 5.449e−05
0.002
0.001
0
−0.001
−0.002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 67.22
Std Dev 0
2
1
0
−1
−2

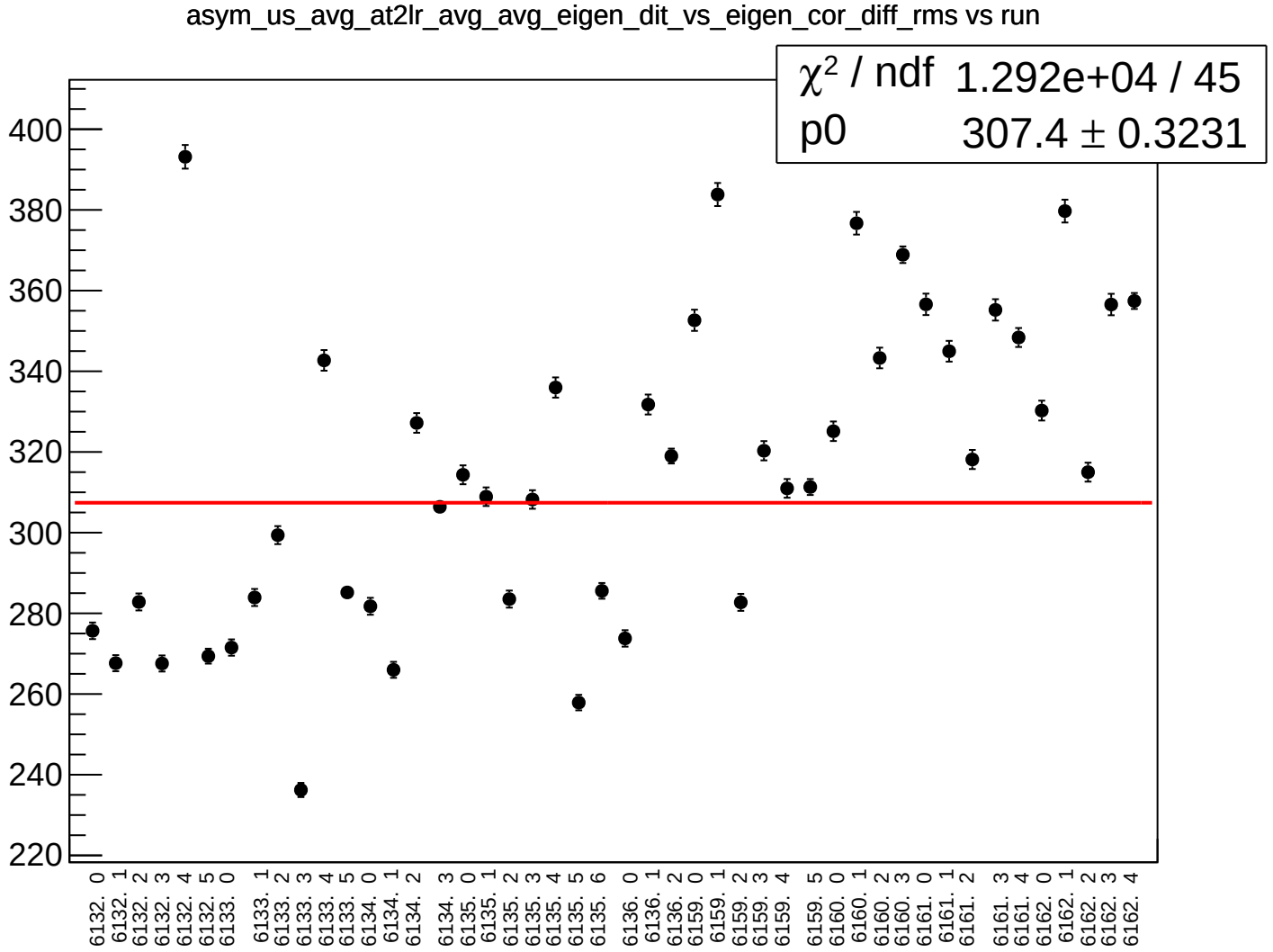

pull1D
Entries 46
Mean 0.08556
Std Dev 1.04
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

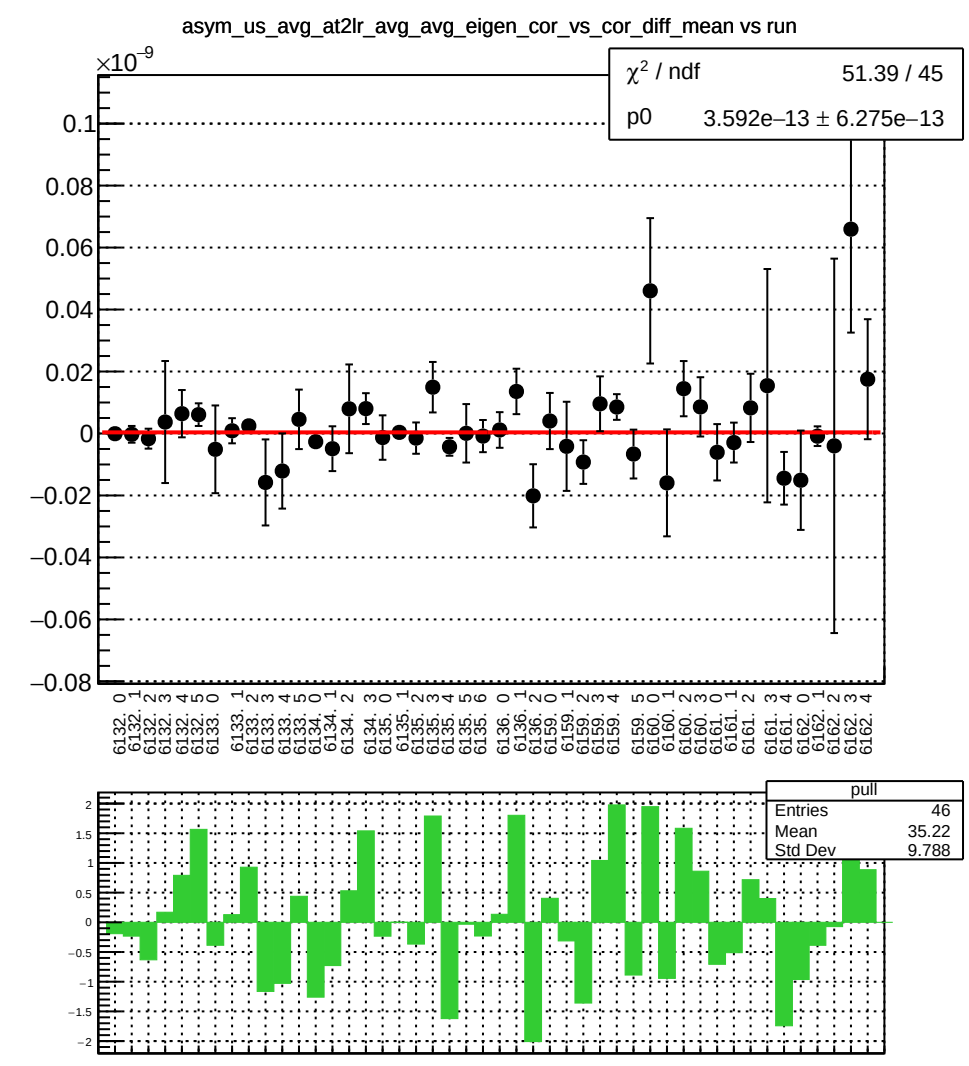

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.351e+05 / 45
p0 0.0341 ± 3.853e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

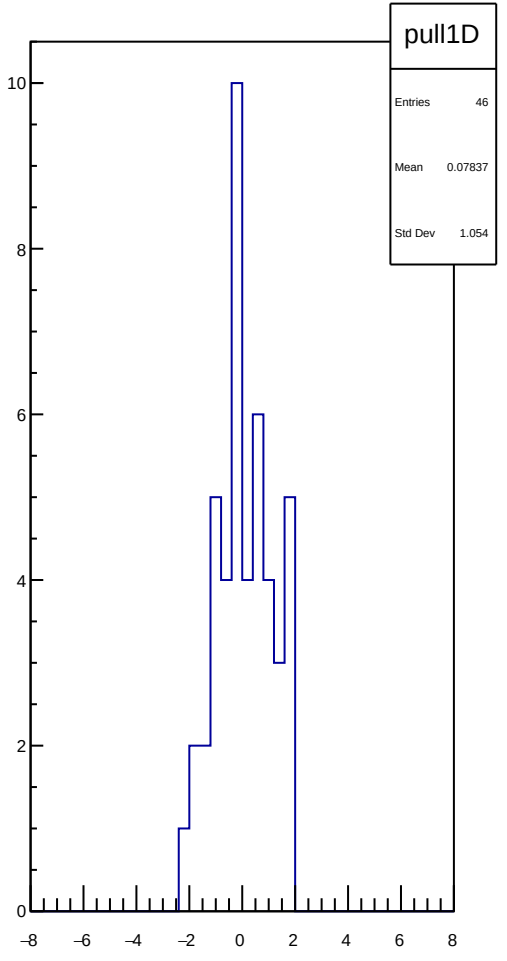

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 50.13 / 45
p0 −0.134 ± 0.4569
pull
Entries 46
Mean 30.97
Std Dev 0
pull1D
Entries 46
Mean −0.04342
Std Dev 1.043

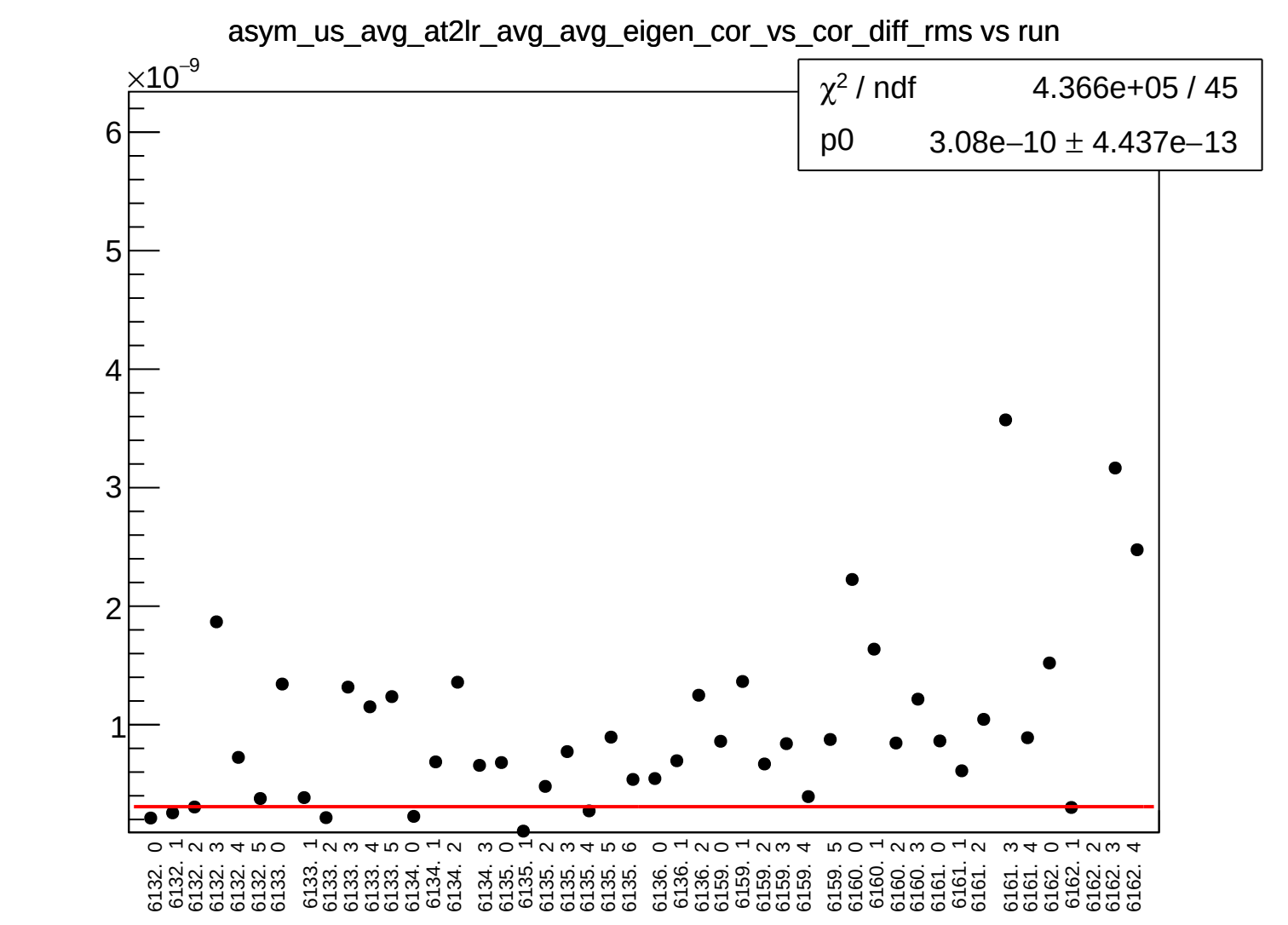

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.292e+04 / 45
p0 307.4 ± 0.3231
400
380
360
340
320
300
280
260
240
220
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

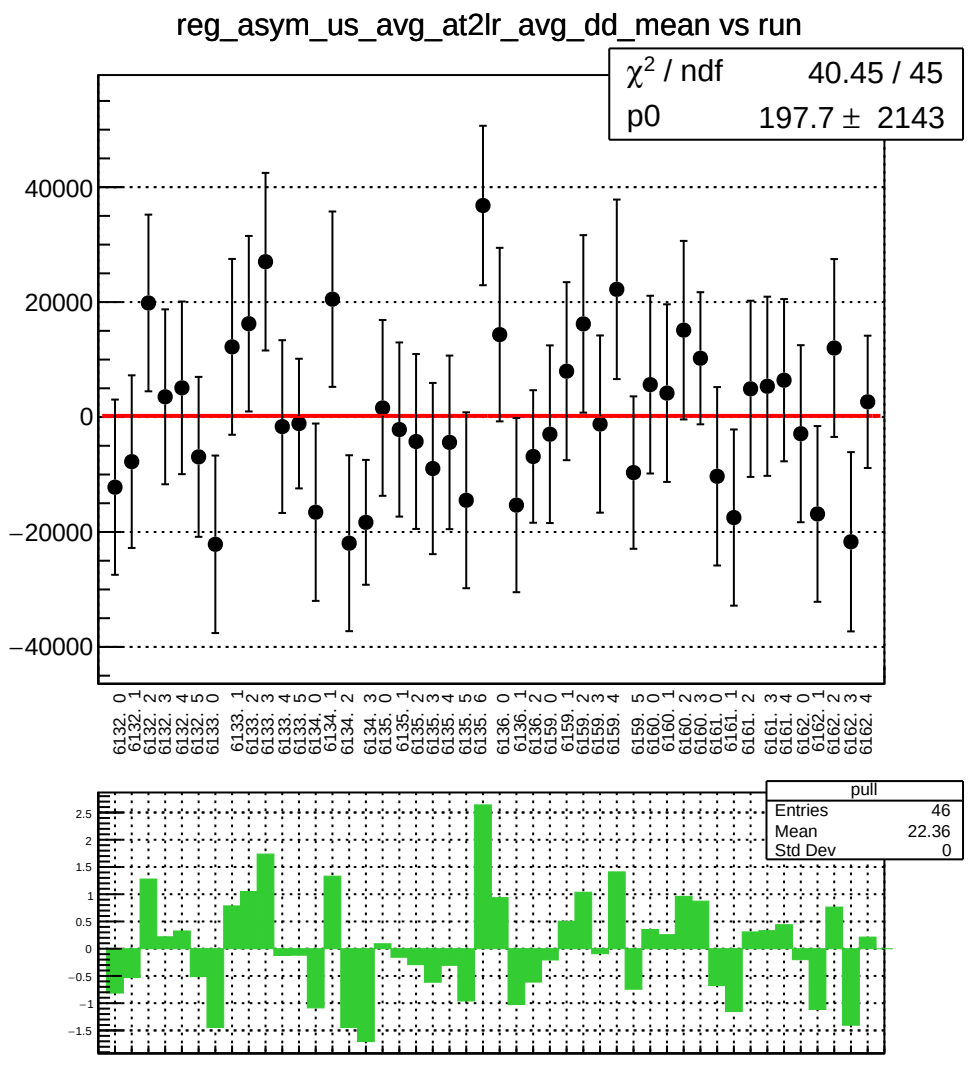

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.13 / 45
p0 −0.134 ± 0.4569
pull
Entries 46
Mean 30.97
Std Dev 0
pull1D
Entries 46
Mean −0.04342
Std Dev 1.043


asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.292e+04 / 45
p0 307.4 ± 0.3231
400
380
360
340
320
300
280
260
240
220
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 51.39 / 45
p0 3.592e−13 ± 6.275e−13
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 35.22
Std Dev 9.788
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.07837
Std Dev 1.054
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.366e+05 / 45
p0 3.08e−10 ± 4.437e−13
6
5
4
3
2
1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 40.45 / 45
p0 197.7 ± 2143
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 22.36
Std Dev 0
2.5
2
1.5
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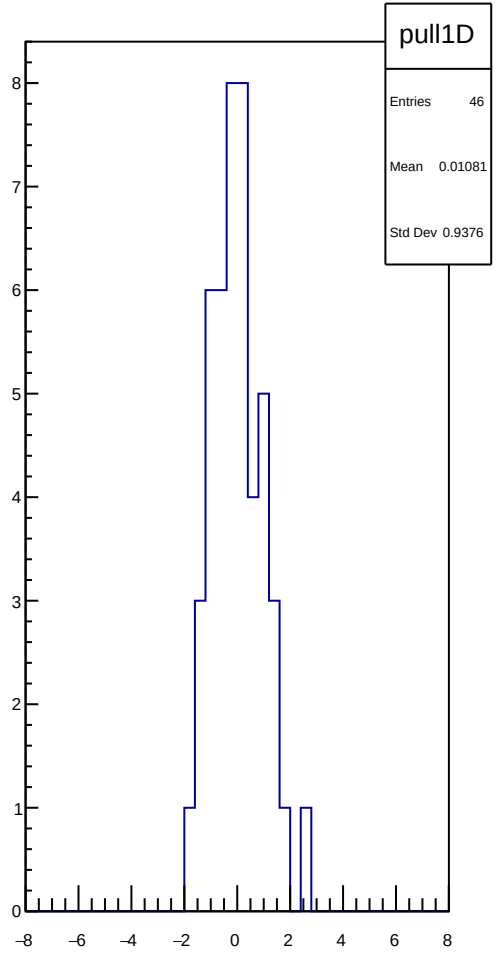
0.5
0
−0.5
−1
−1.5


pull1D
Entries 46
Mean 0.01081
Std Dev 0.9376
8
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5
4
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2
1
0
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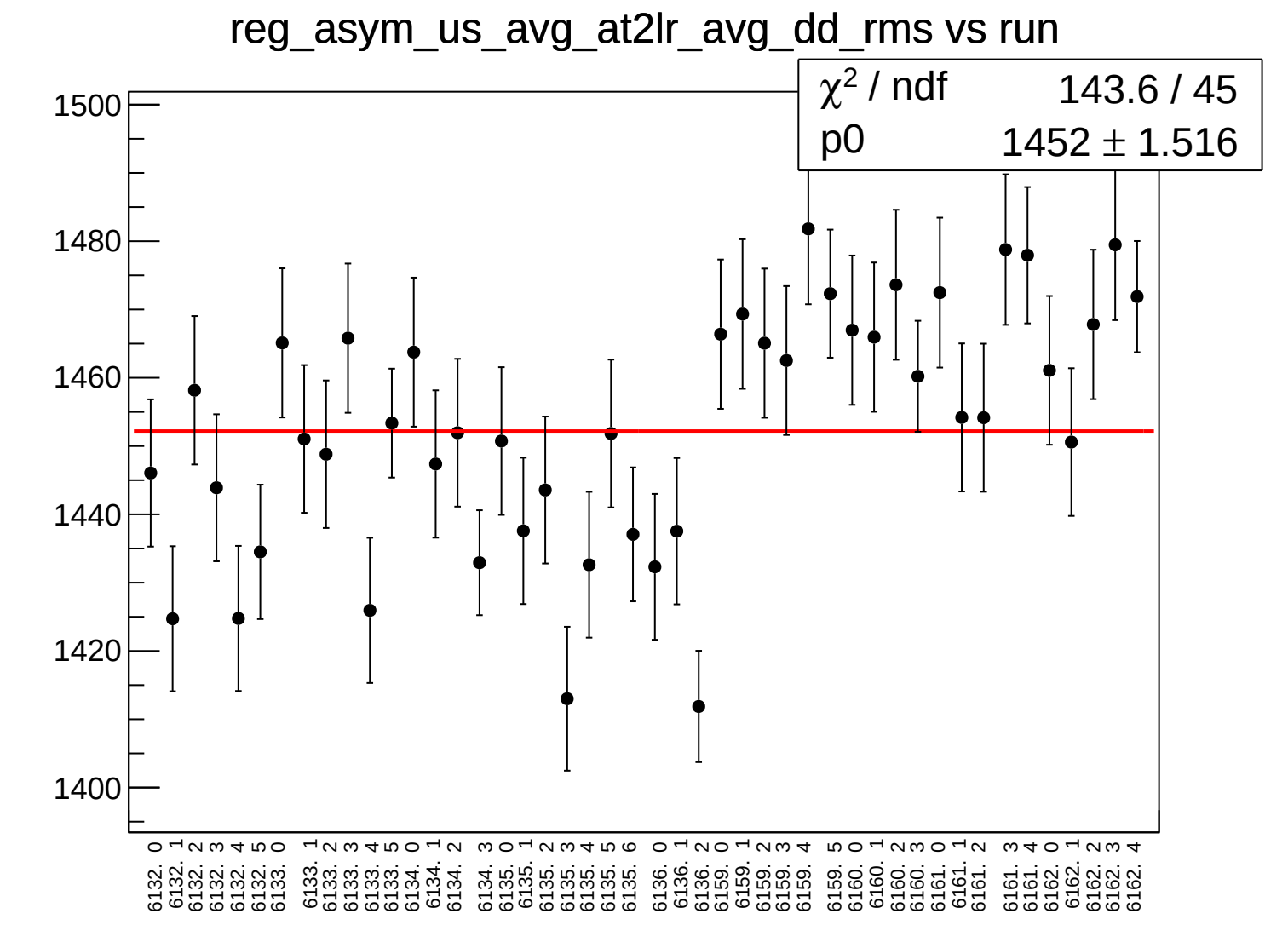
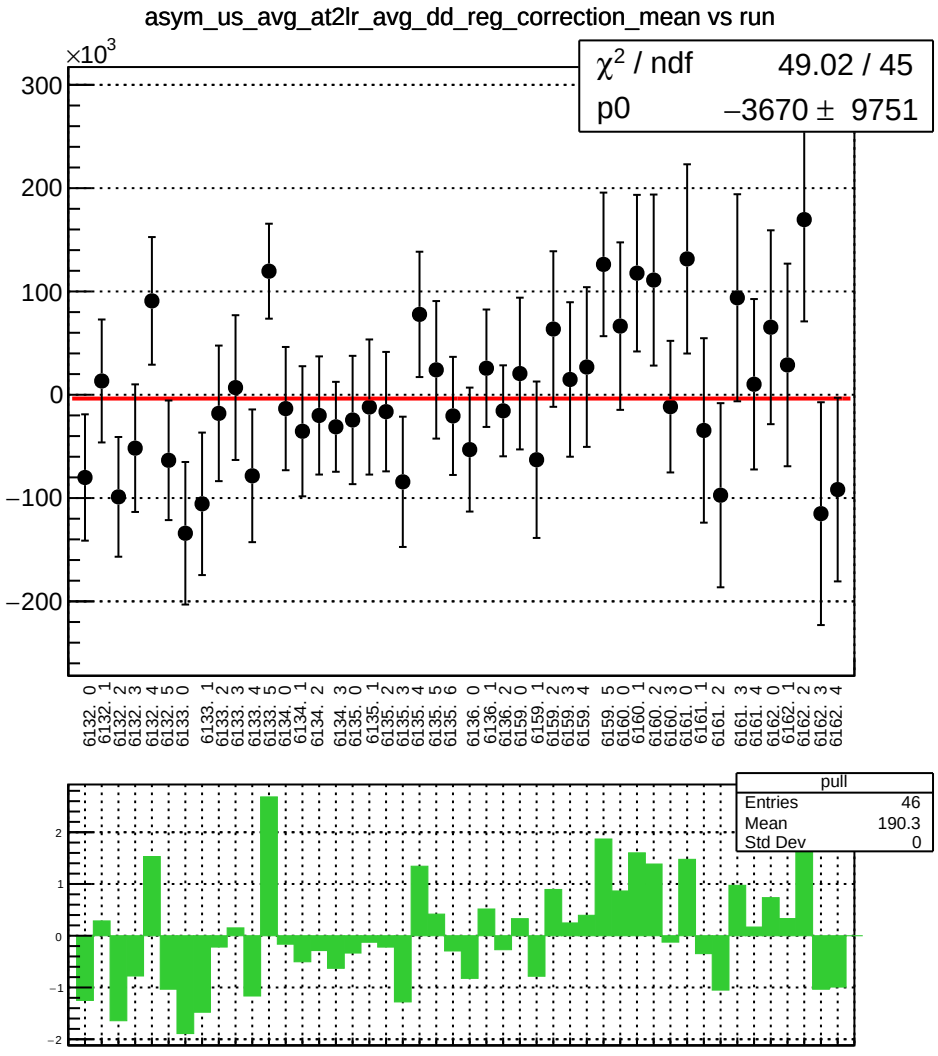
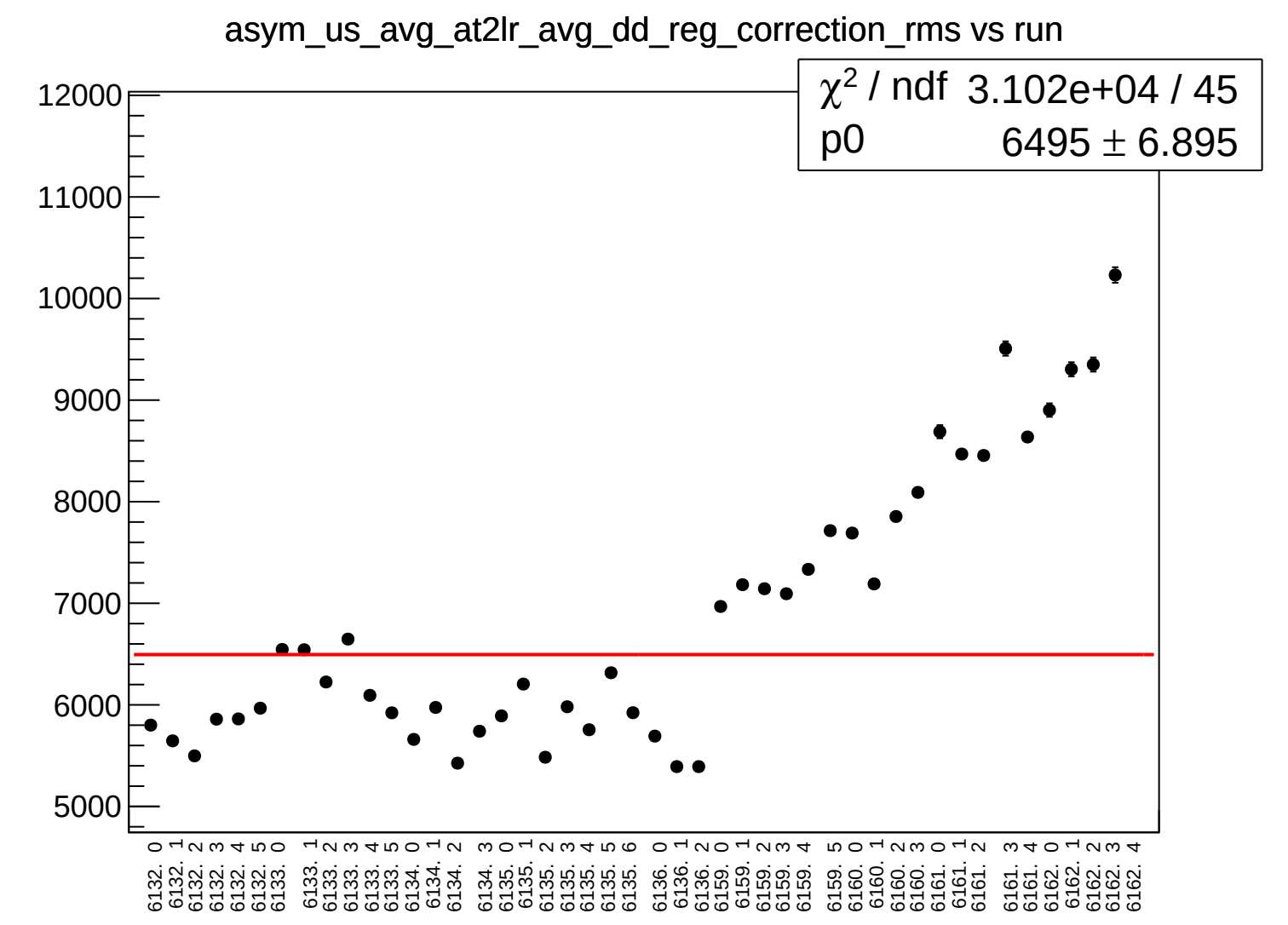
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 143.6 / 45
p0 1452 ± 1.516
1500
1480
1460
1440
1420
1400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 49.02 / 45
p0 −3670 ± 9751
300
200
100
0
−100
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 190.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02715
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 3.102e+04 / 45
p0 6495 ± 6.895
12000
11000
10000
9000
8000
7000
6000
5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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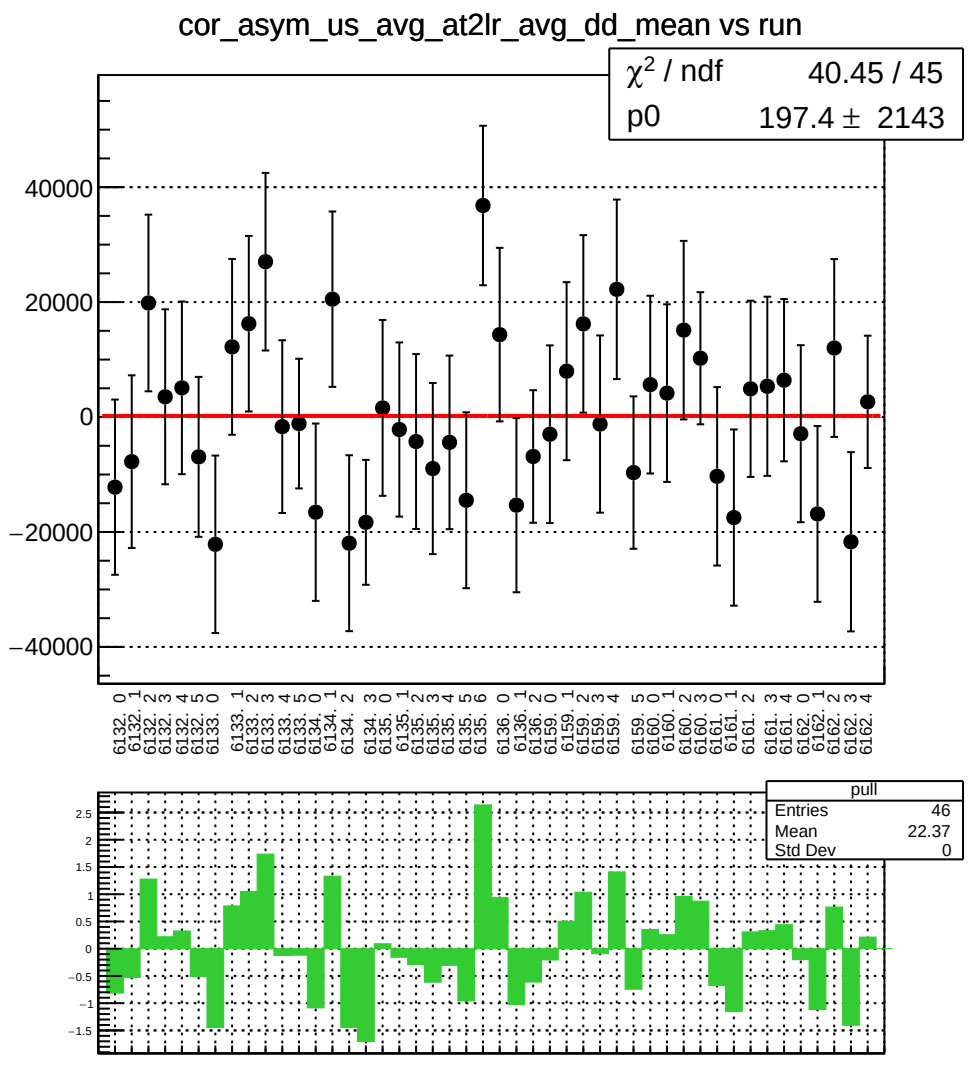
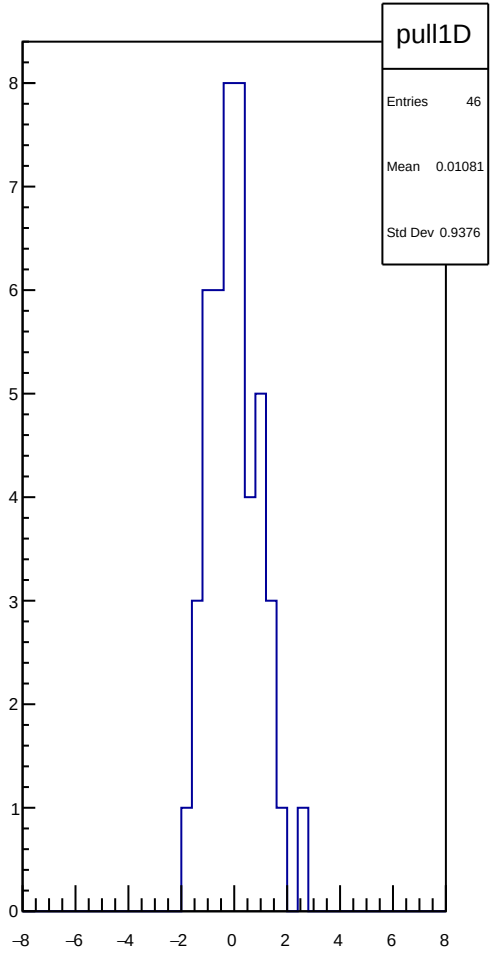
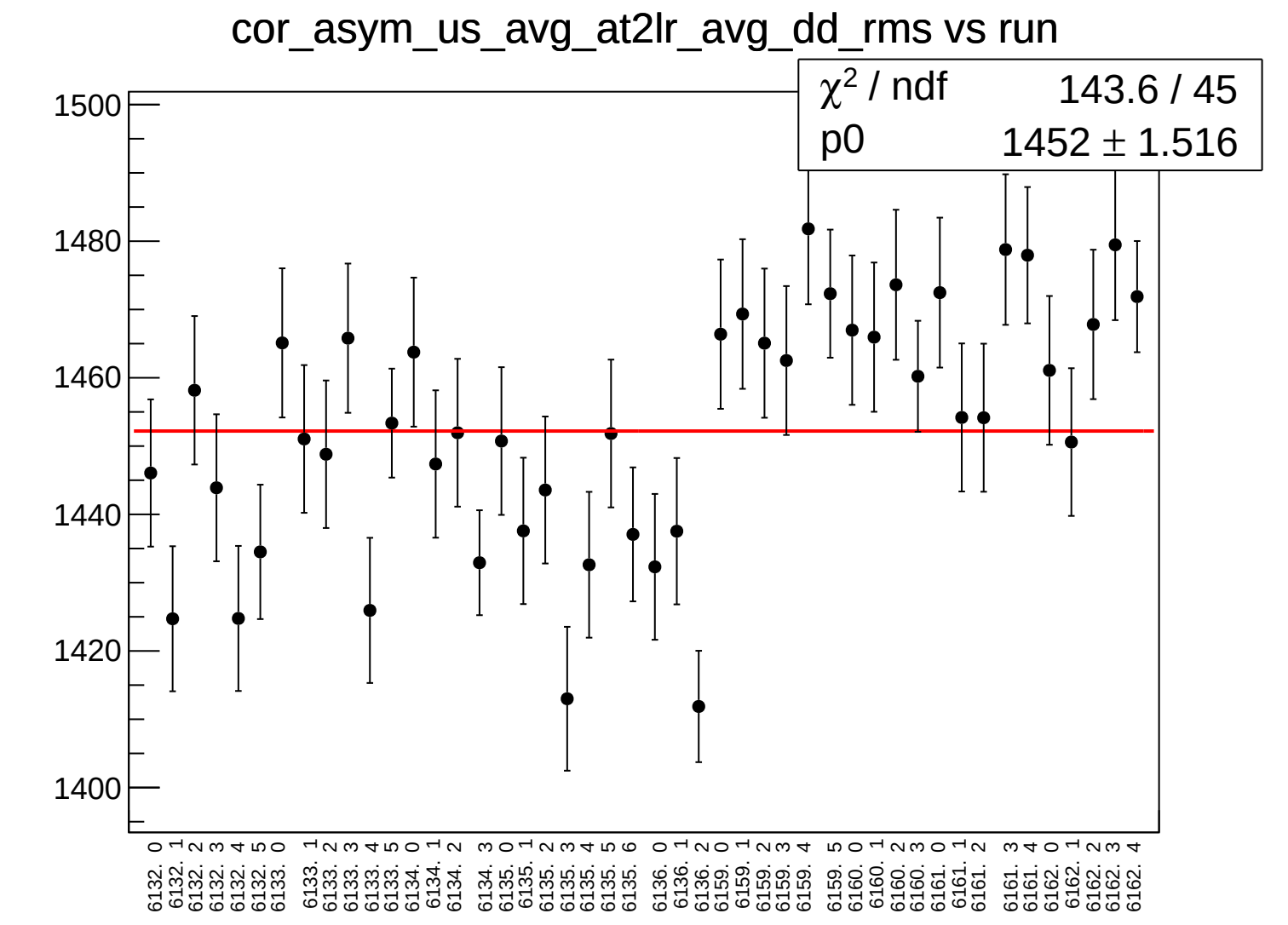
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 40.45 / 45
p0 197.4 ± 2143
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 22.37
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 46
Mean 0.01081
Std Dev 0.9376
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 143.6 / 45
p0 1452 ± 1.516
1500
1480
1460
1440
1420
1400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
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6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6162. 0
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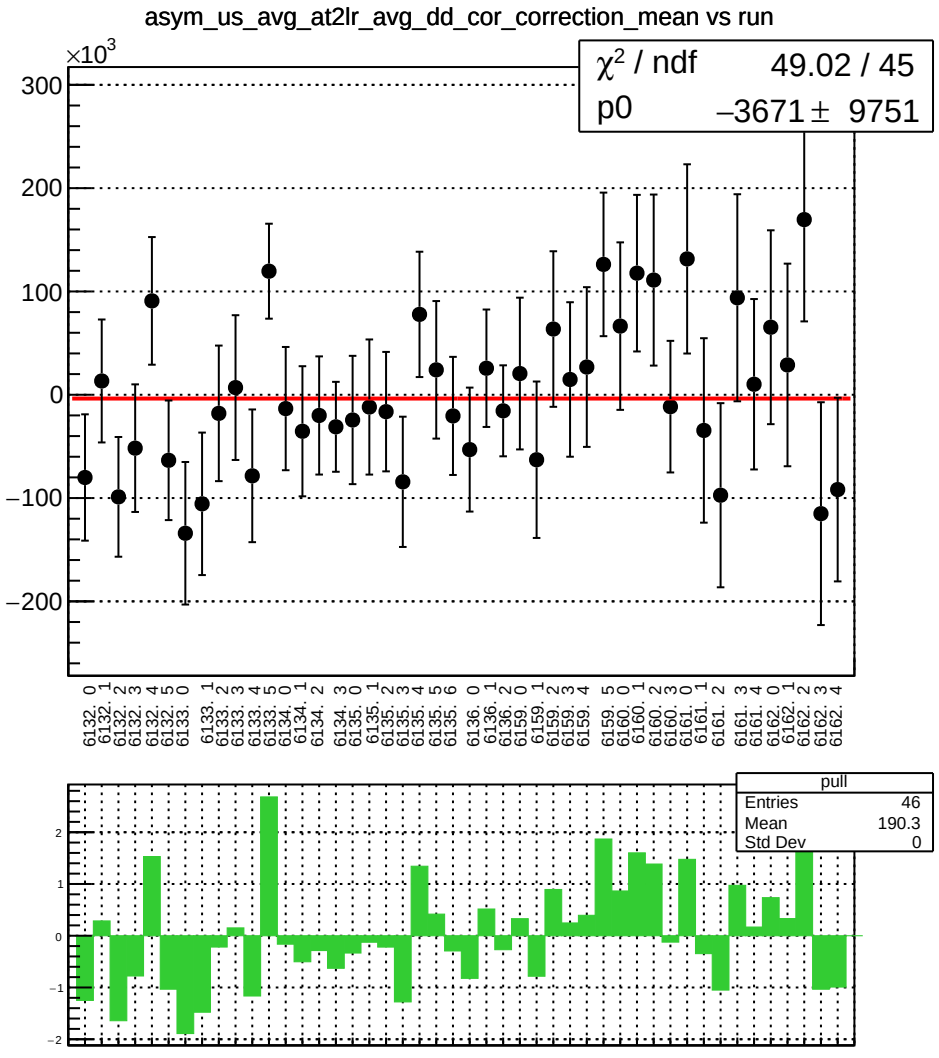
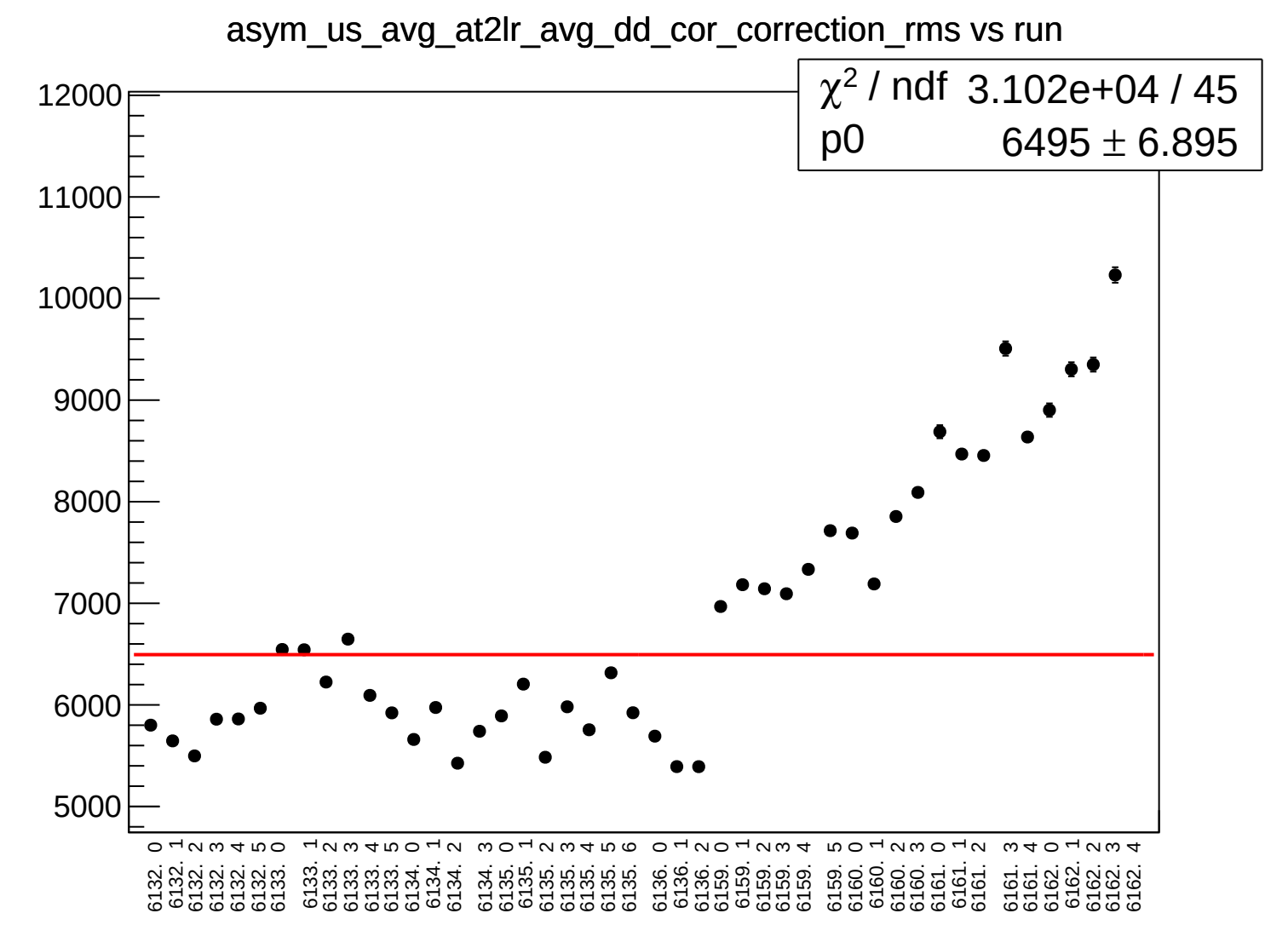
6162. 3
6162. 4


asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 49.02 / 45
p0 −3671 ± 9751
300
200
100
0
−100
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 190.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02715
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 3.102e+04 / 45
p0 6495 ± 6.895
12000
11000
10000
9000
8000
7000
6000
5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6135. 6
6136. 0
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6162. 0
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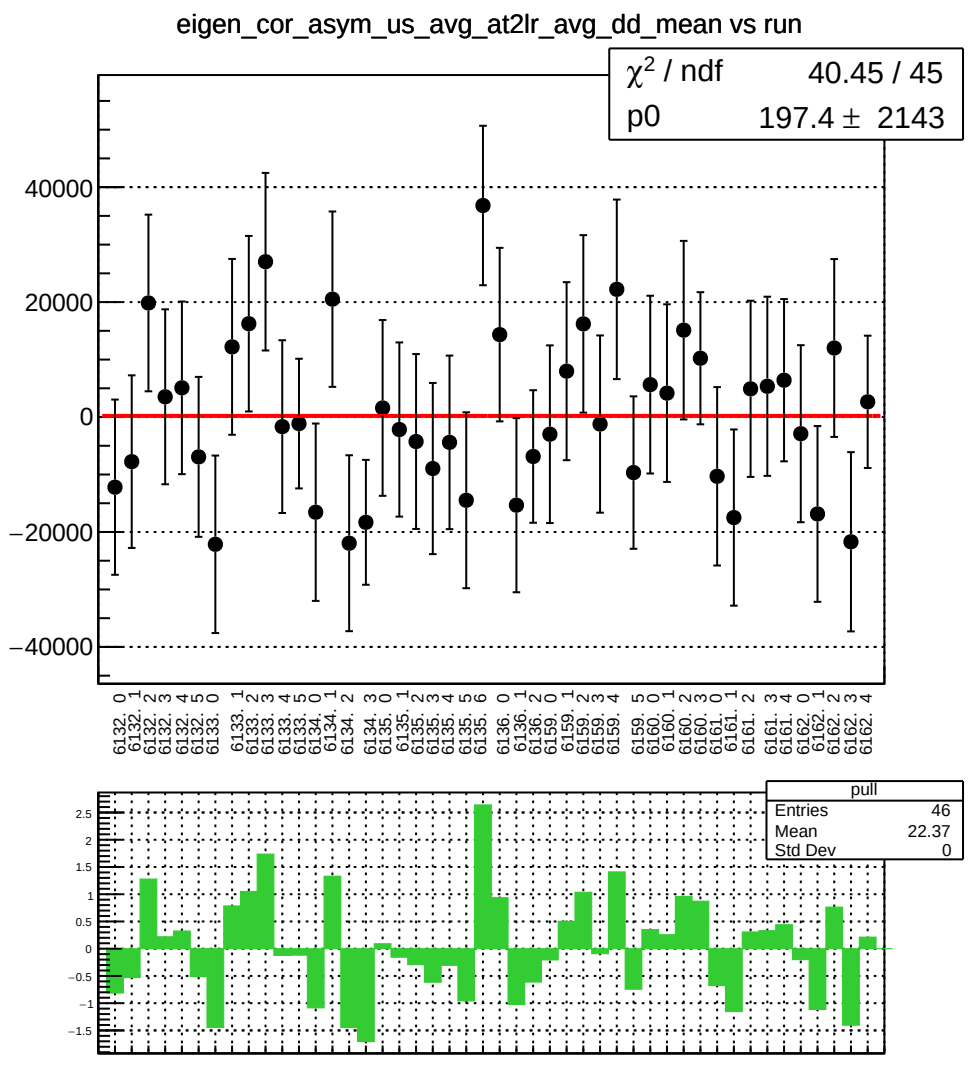
6162. 4


eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 40.45 / 45
p0 197.4 ± 2143
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 2
6135. 3
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6135. 6
6136. 0
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6136. 2
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6159. 3
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6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
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6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 22.37
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.01081
Std Dev 0.9376
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4
3
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1
0
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−4
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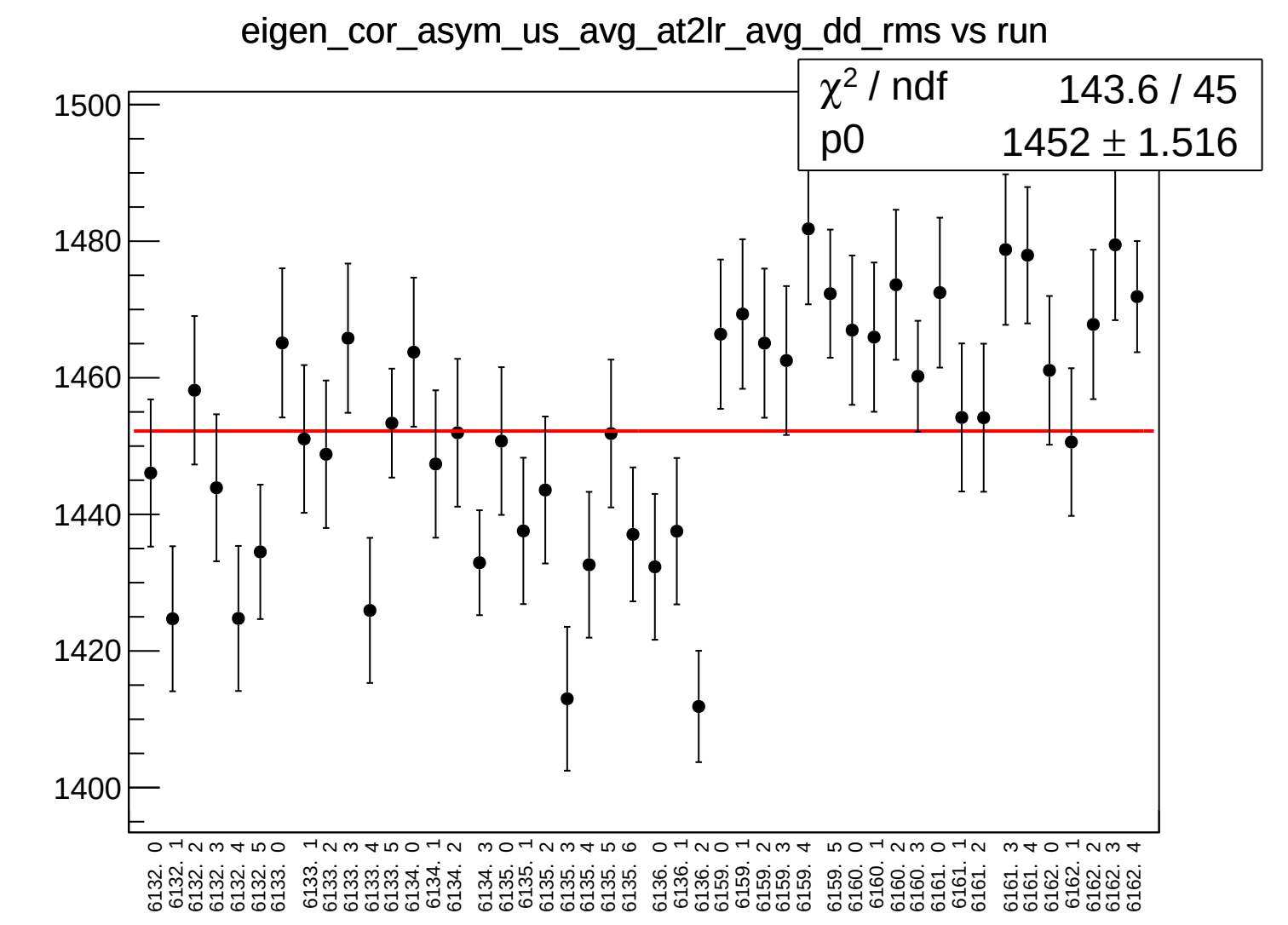
6
8


eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 143.6 / 45
p0 1452 ± 1.516
1500
1480
1460
1440
1420
1400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
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6160. 2
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6162. 2
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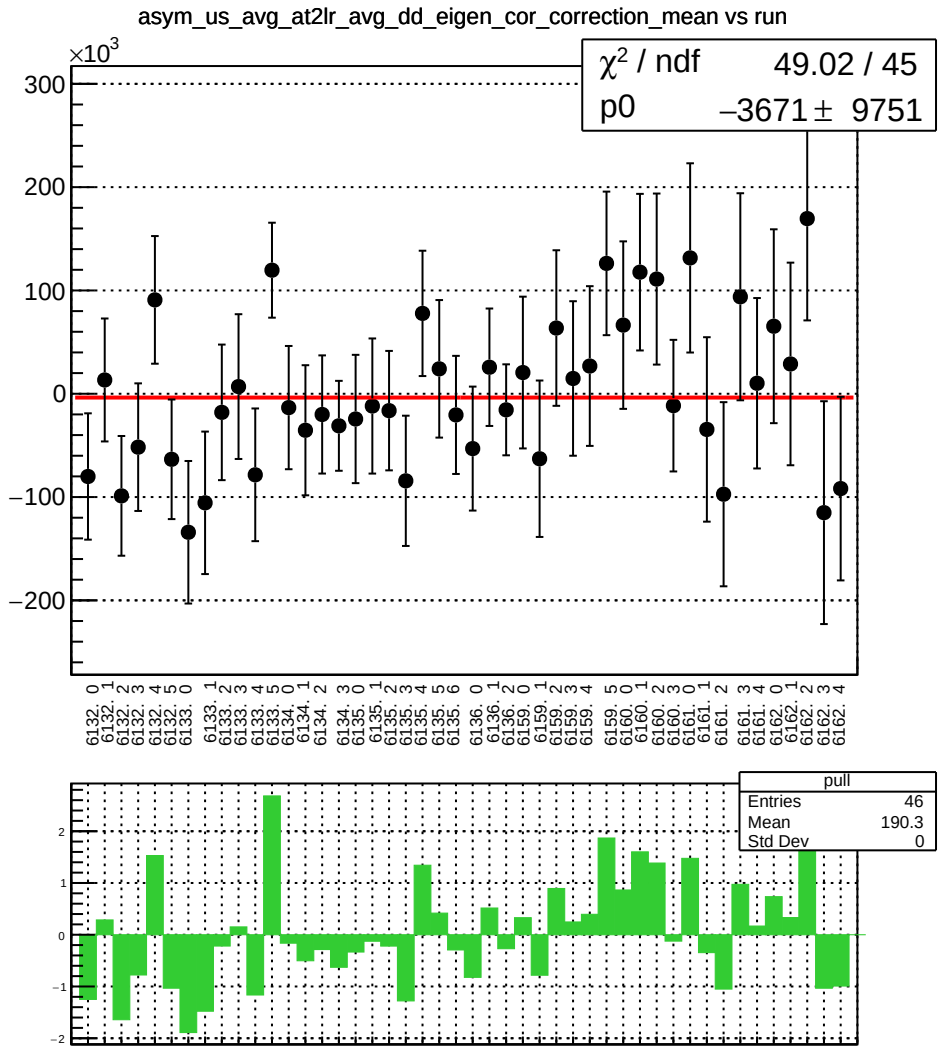
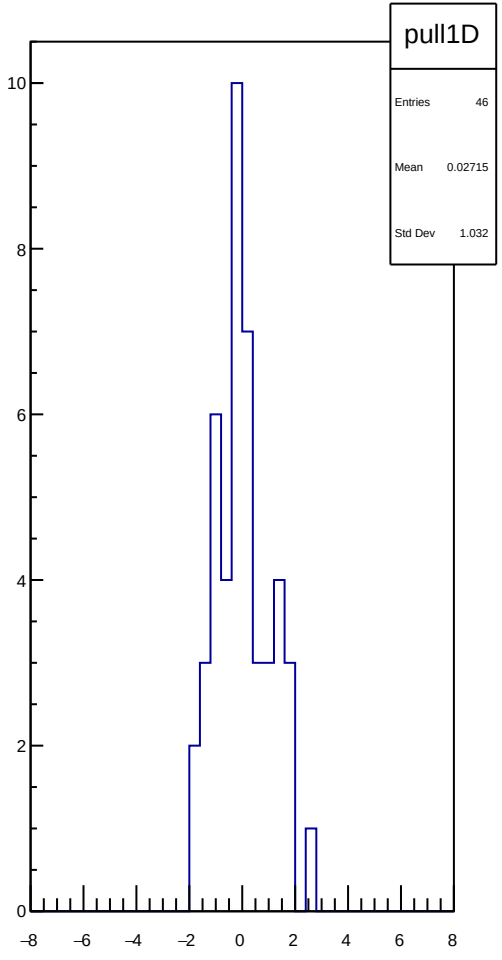
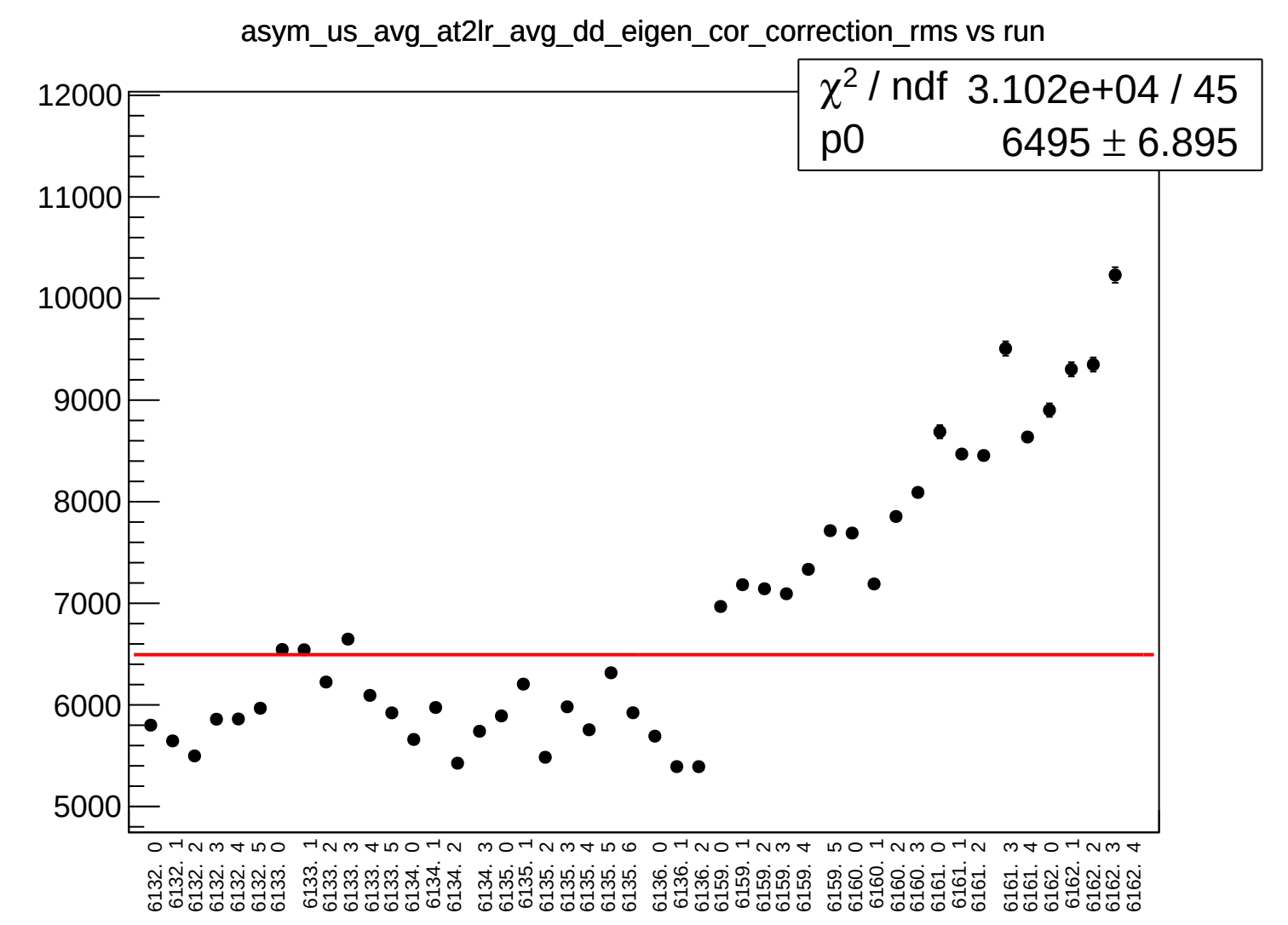
6162. 4


asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 49.02 / 45
p0 −3671 ± 9751
pull
Entries 46
Mean 190.3
Std Dev 0


pull1D
Entries 46
Mean 0.02715
Std Dev 1.032


asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.102e+04 / 45
p0 6495 ± 6.895
12000
11000
10000
9000
8000
7000
6000
5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6160. 2
6160. 3
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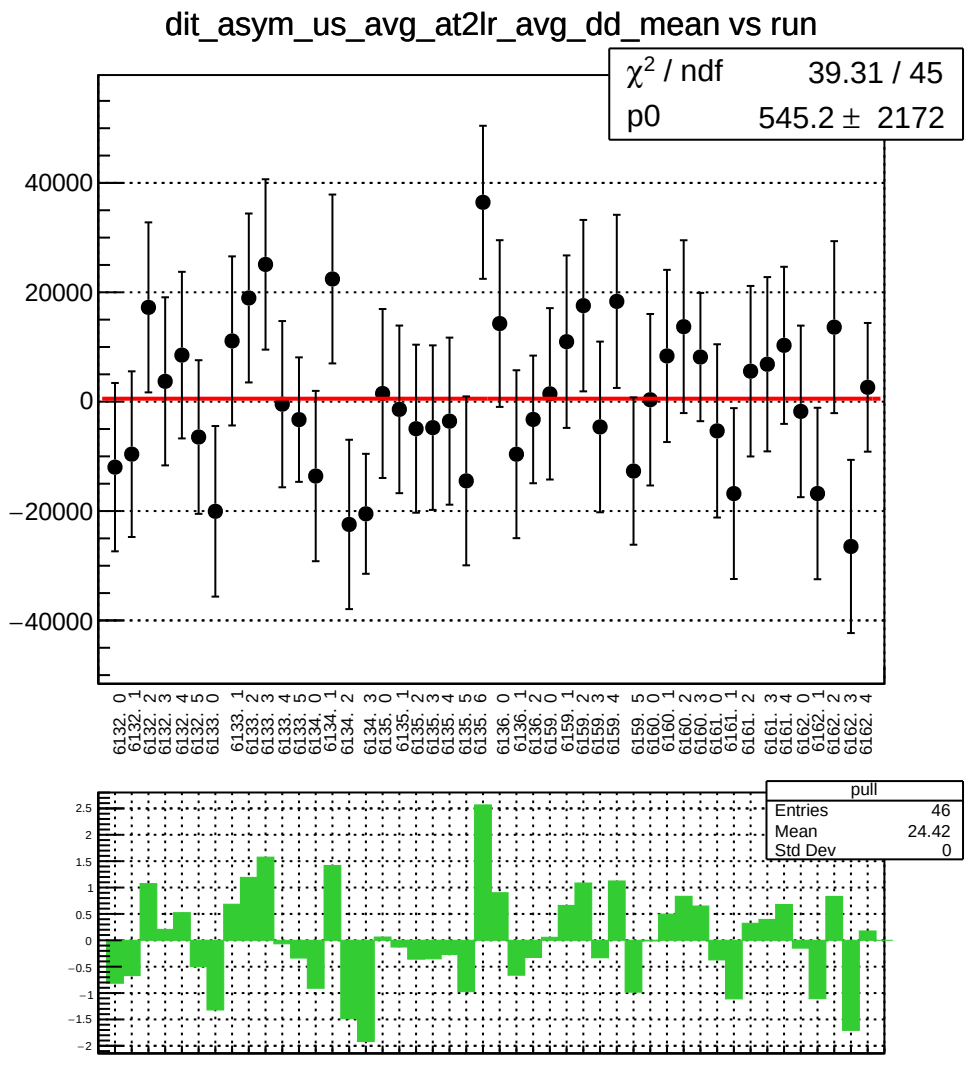
dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 39.31 / 45
p0 545.2 ± 2172
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
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6135. 2
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6135. 4
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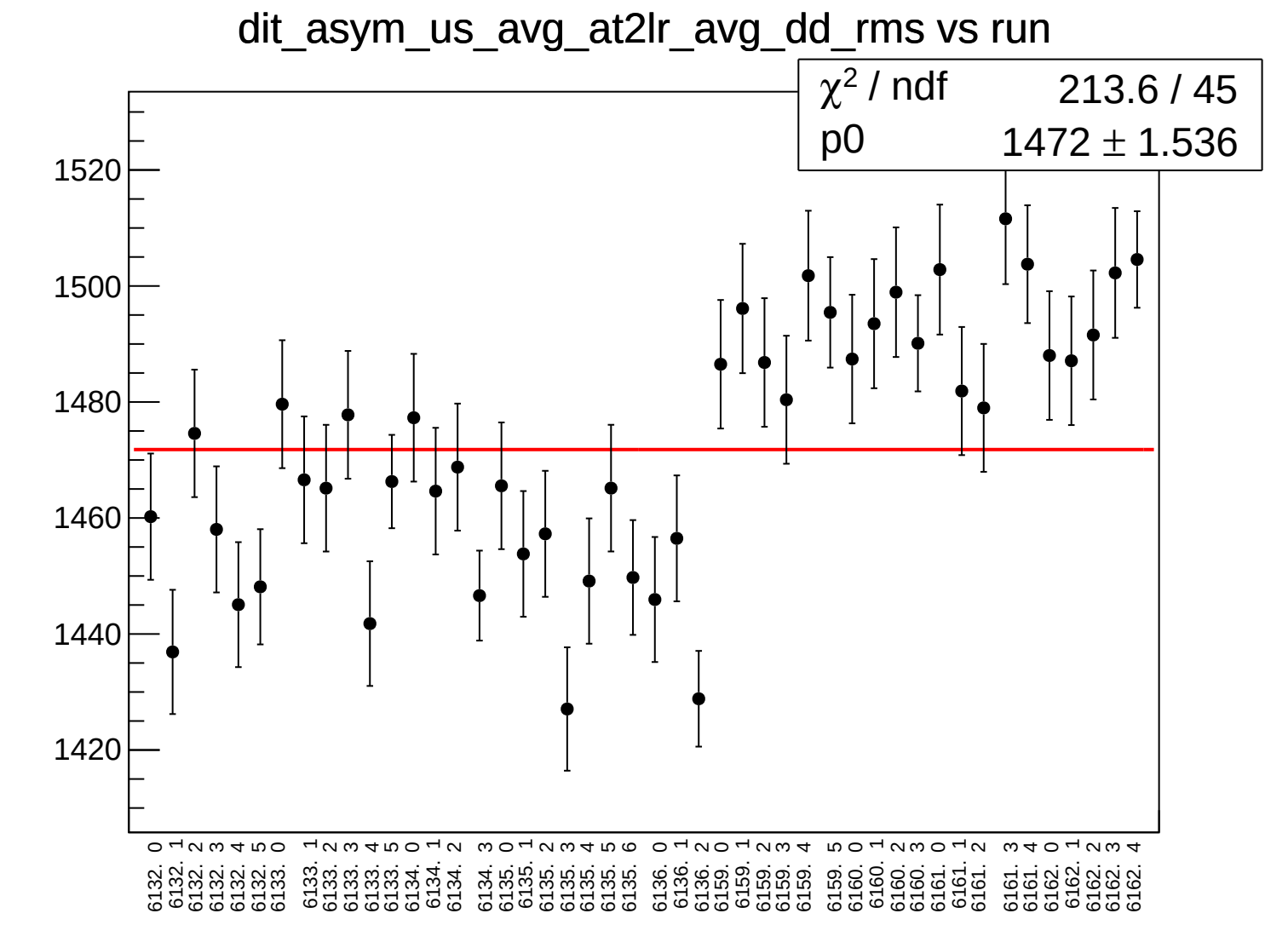
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 24.42
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.01448
Std Dev 0.9243
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 213.6 / 45
p0 1472 ± 1.536
1520
1500
1480
1460
1440
1420
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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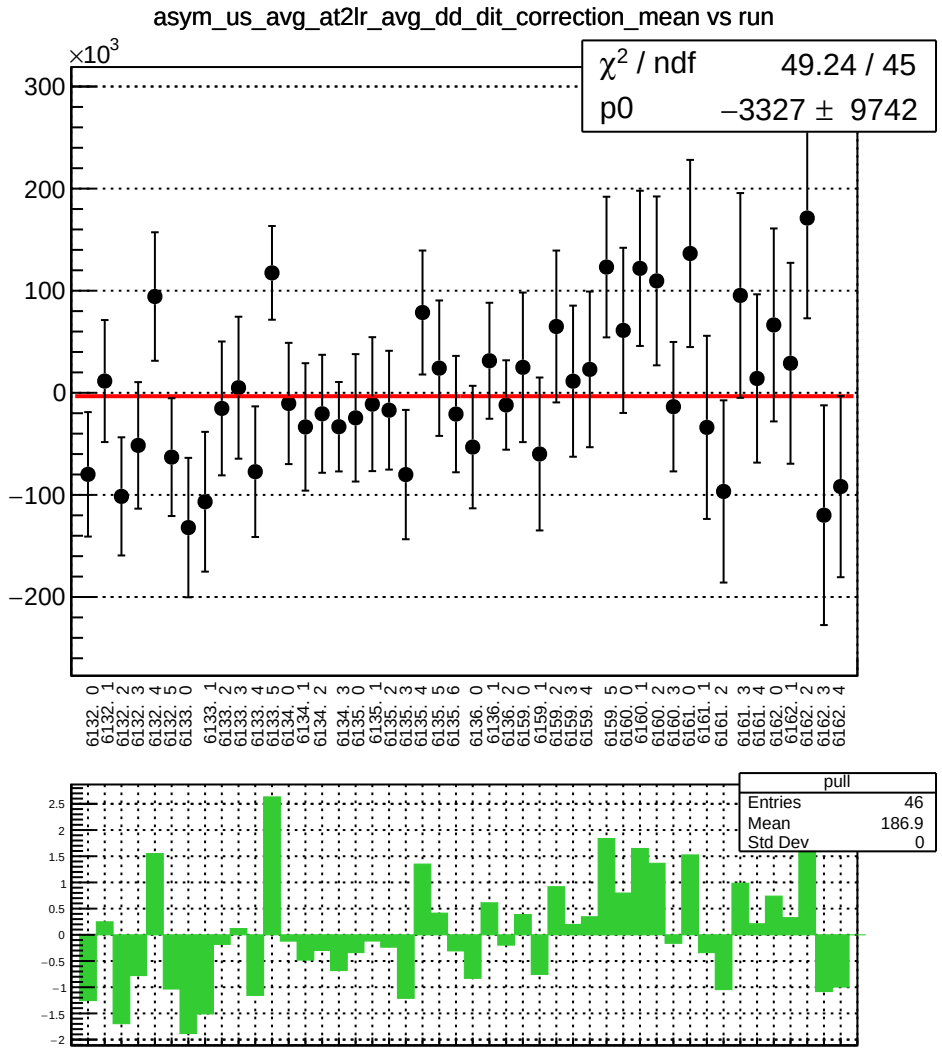
6162. 4


asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 49.24 / 45
p0 −3327 ± 9742
300
200
100
0
−100
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
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6135. 0
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6135. 2
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6135. 6
6136. 0
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6136. 2
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6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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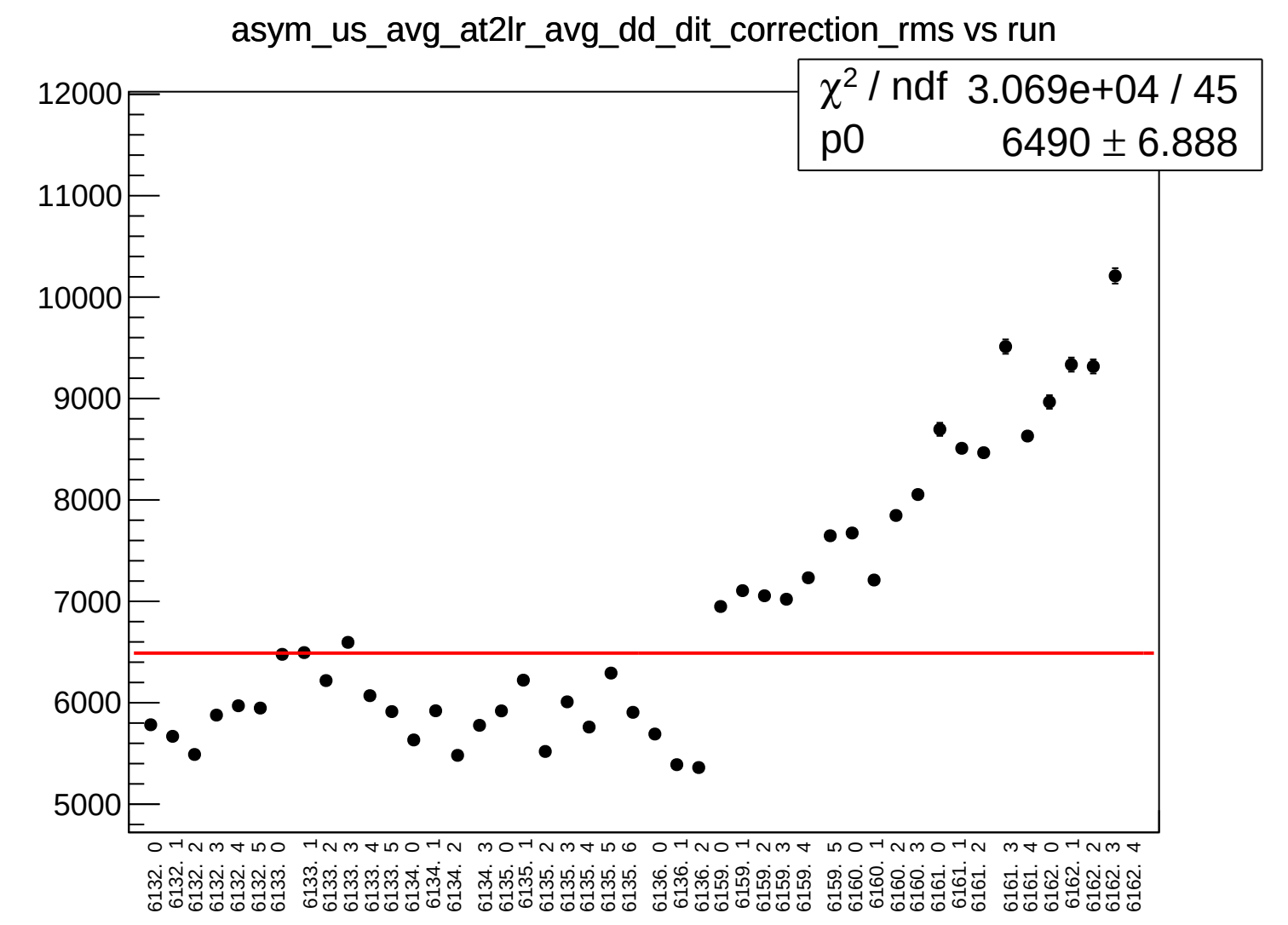
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 186.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.02799
Std Dev 1.034
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 3.069e+04 / 45
p0 6490 ± 6.888
12000
11000
10000
9000
8000
7000
6000
5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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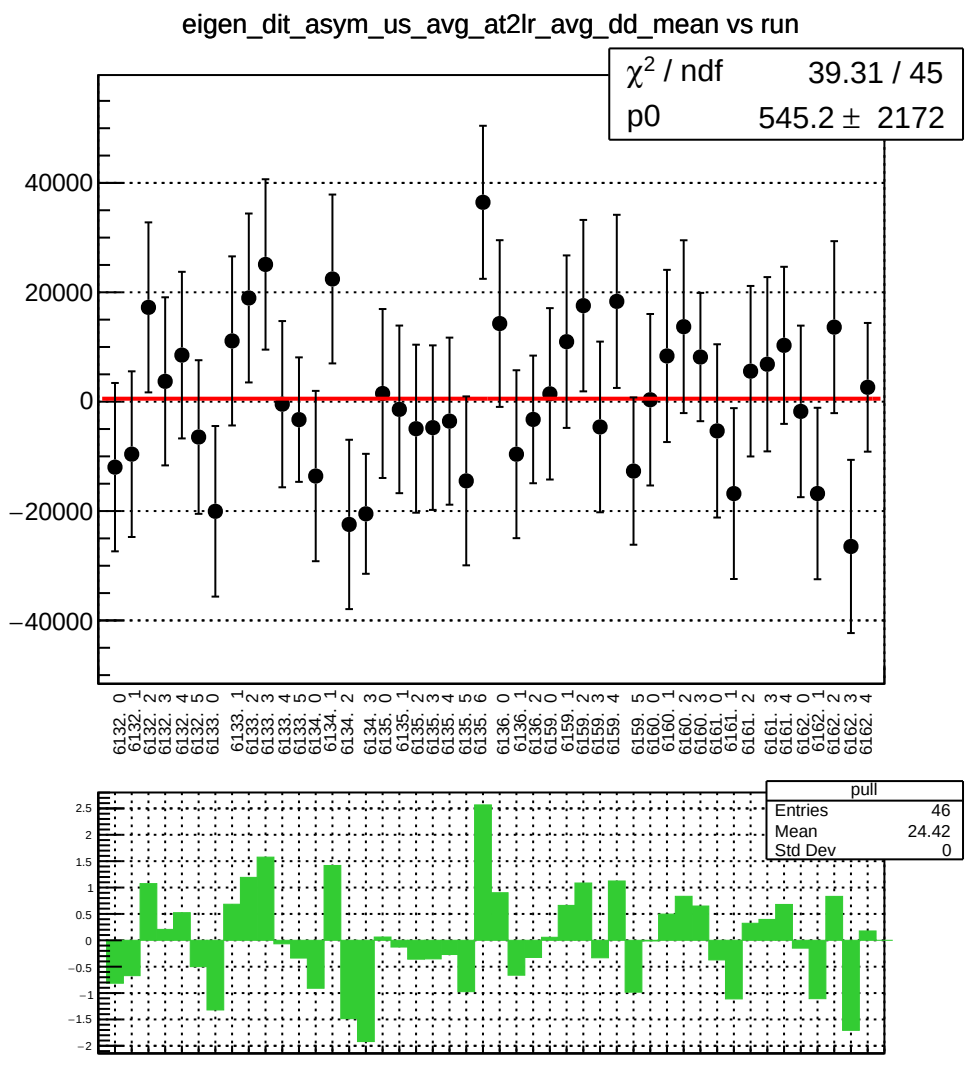
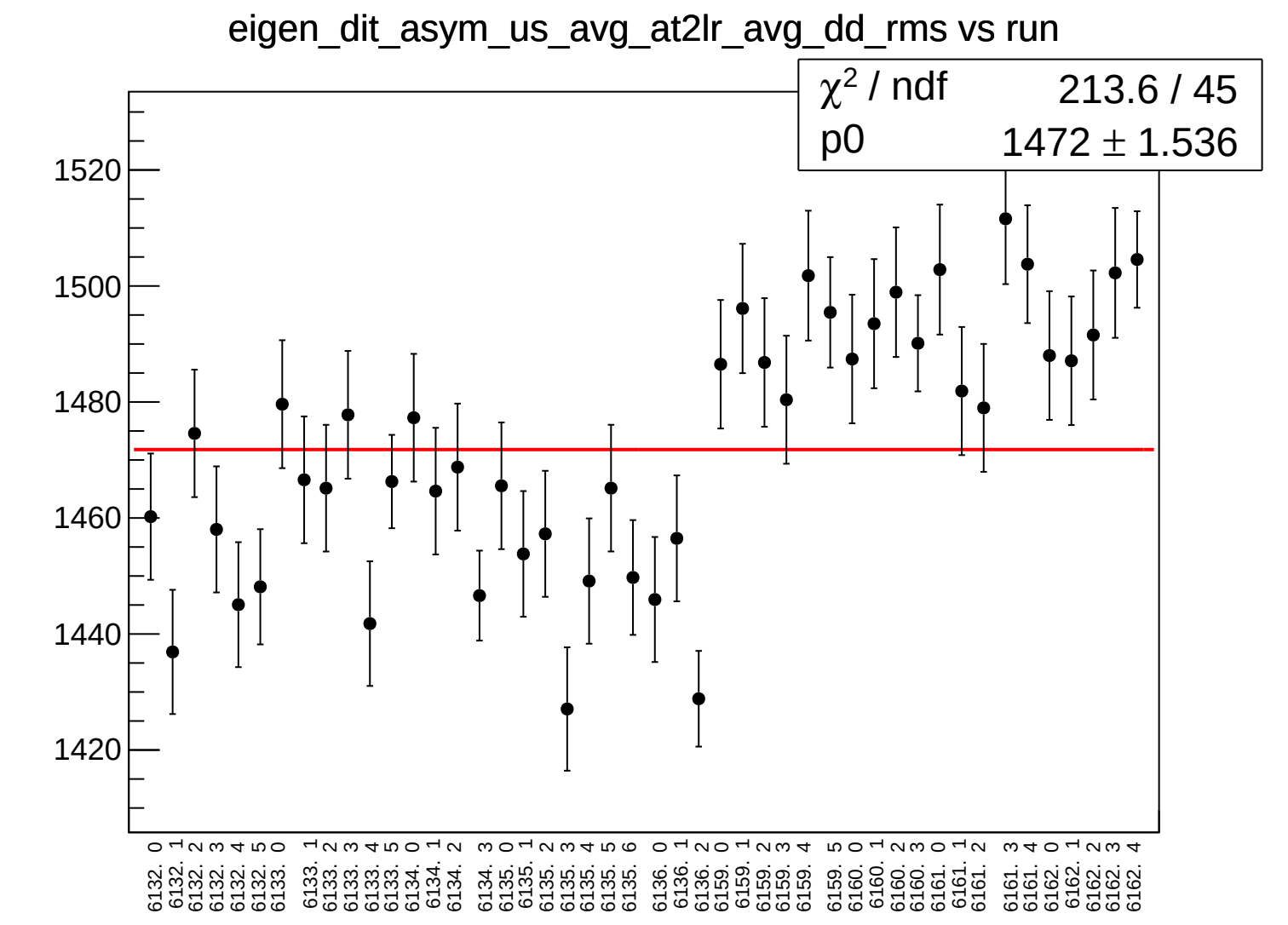
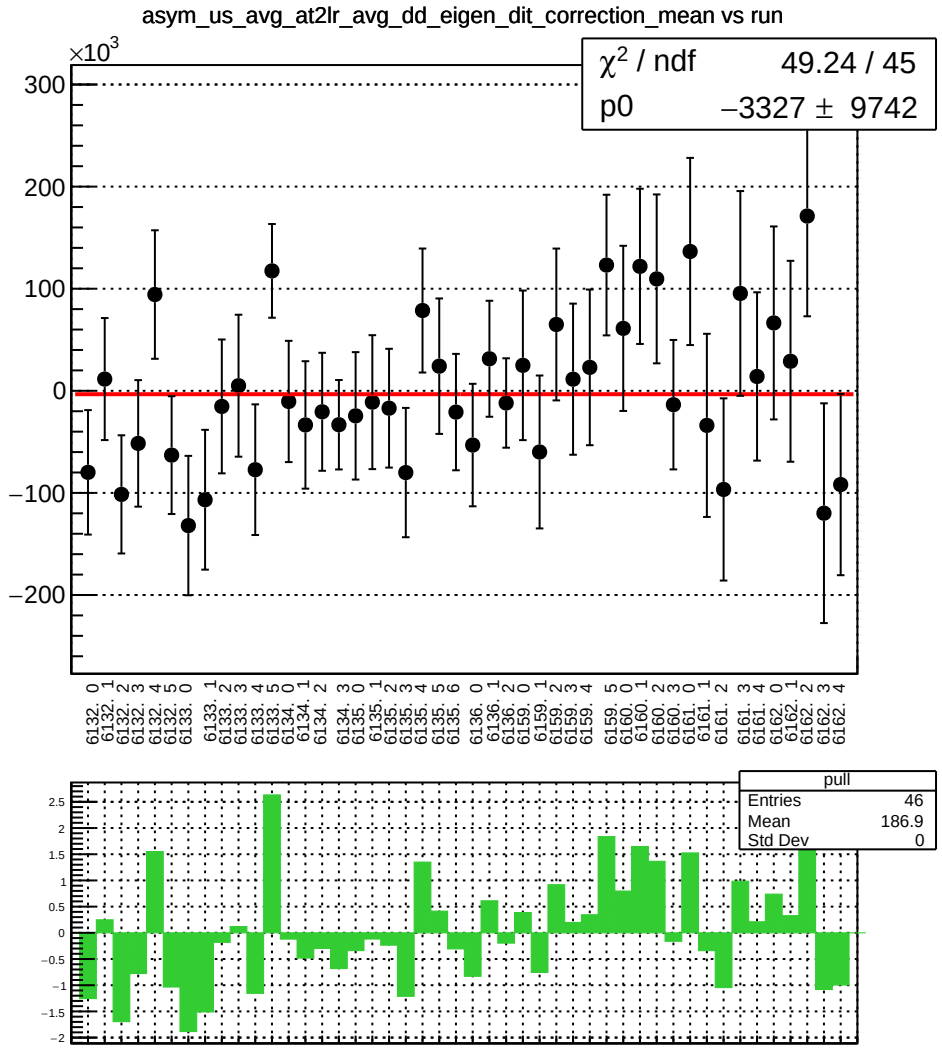
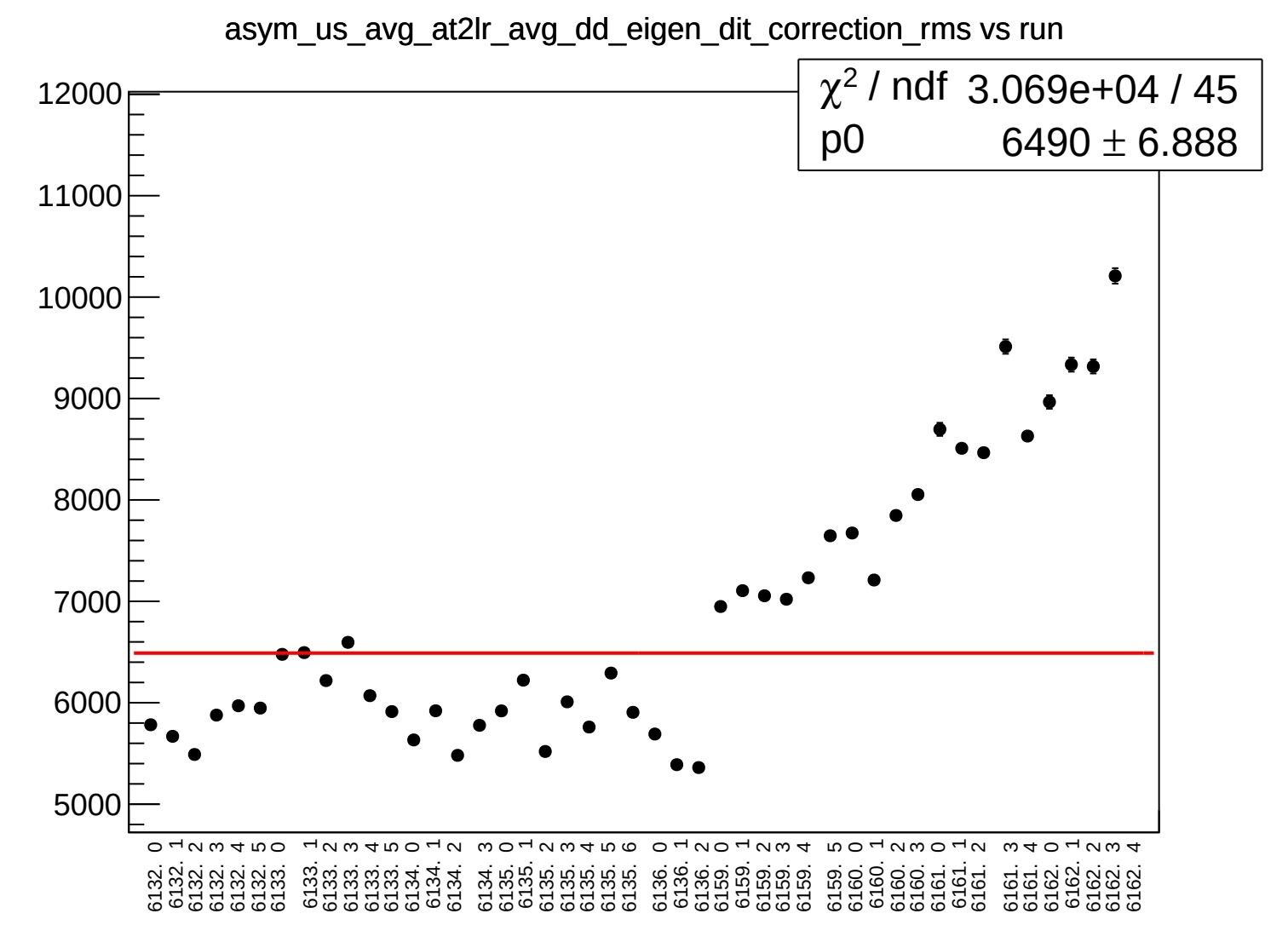
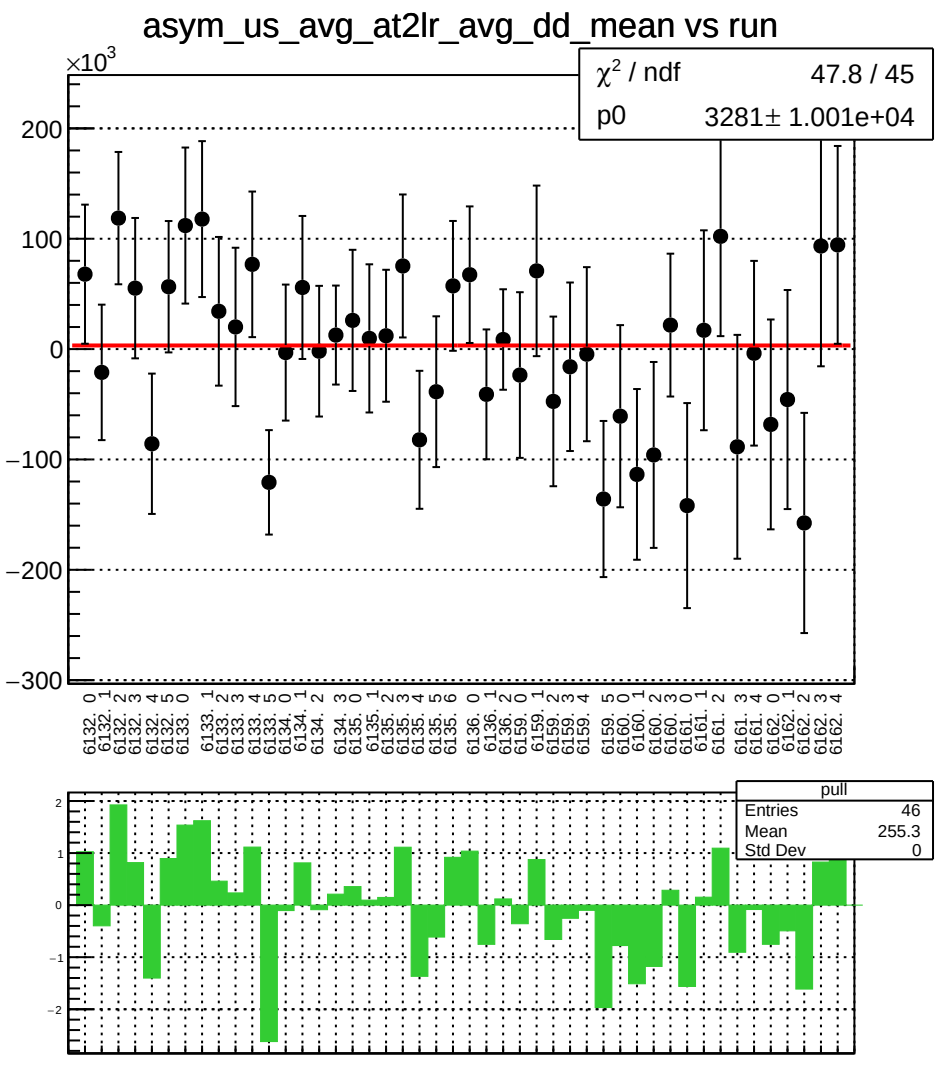
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

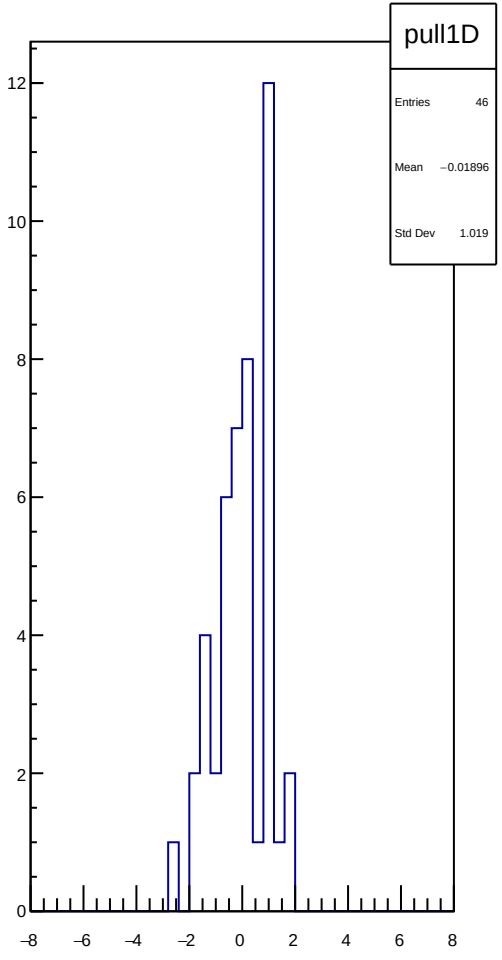

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 39.31 / 45
p0 545.2 ± 2172
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 24.42
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.01448
Std Dev 0.9243
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

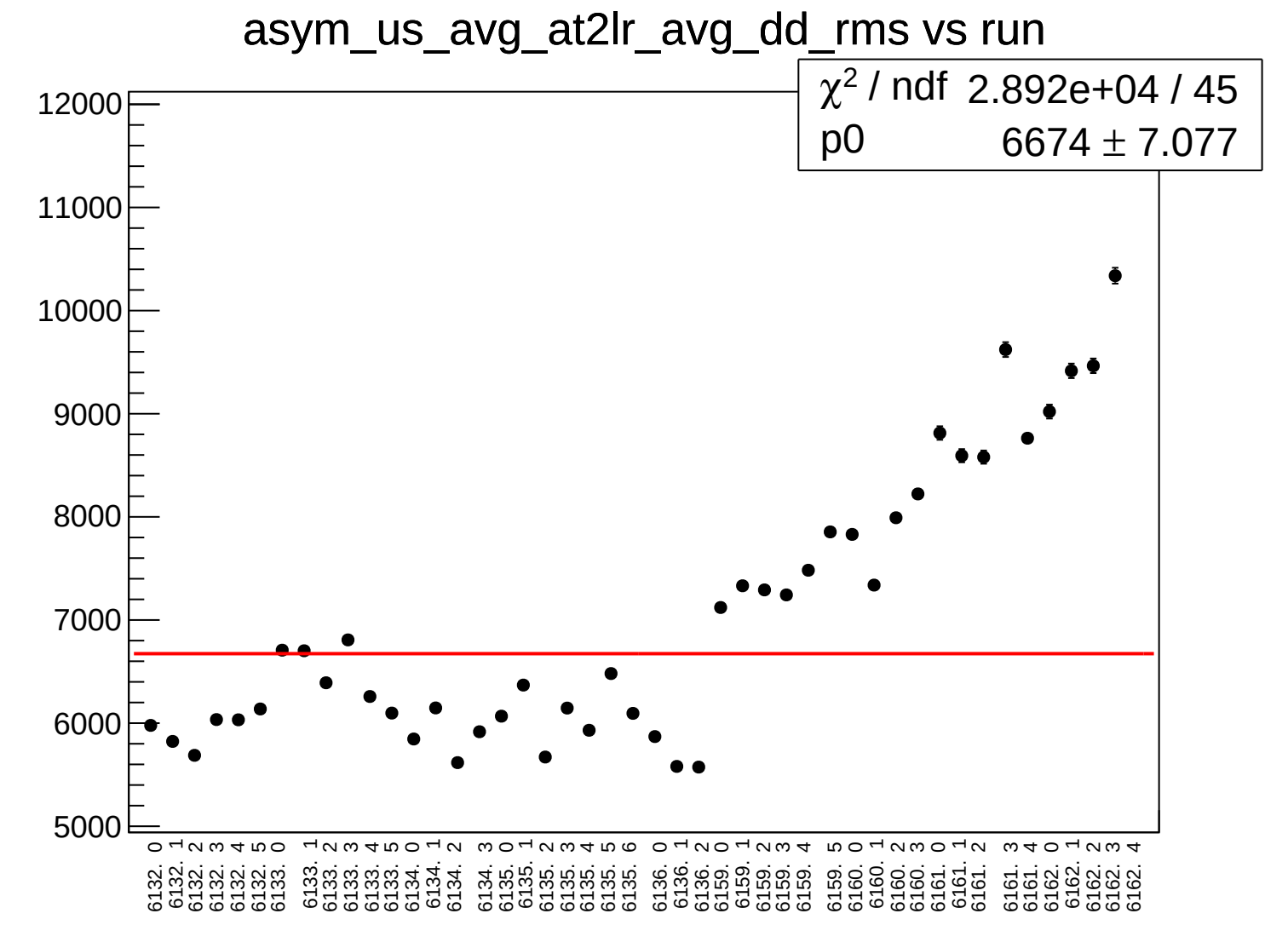

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 213.6 / 45
p0 1472 ± 1.536
1520
1500
1480
1460
1440
1420
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

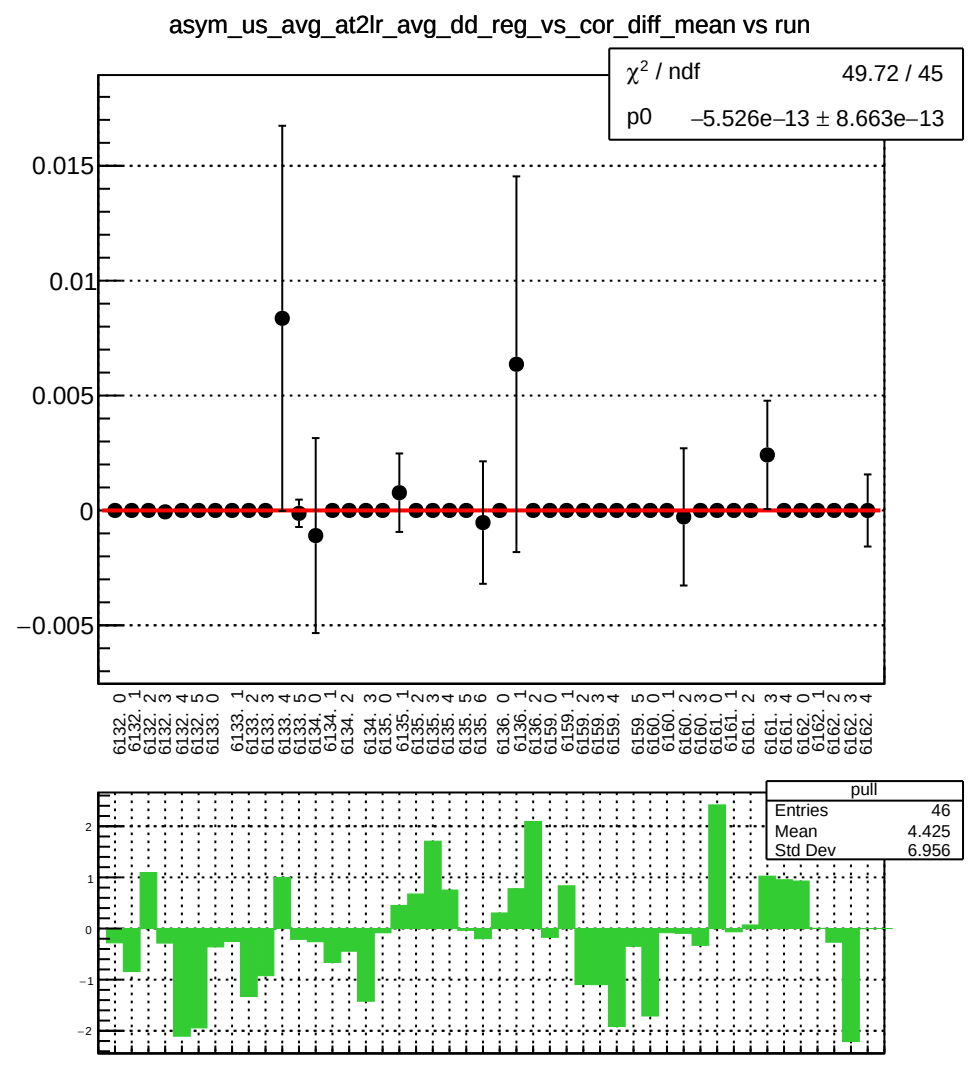

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 49.24 / 45
p0 −3327 ± 9742
300
200
100
0
−100
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 186.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.02799
Std Dev 1.034
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

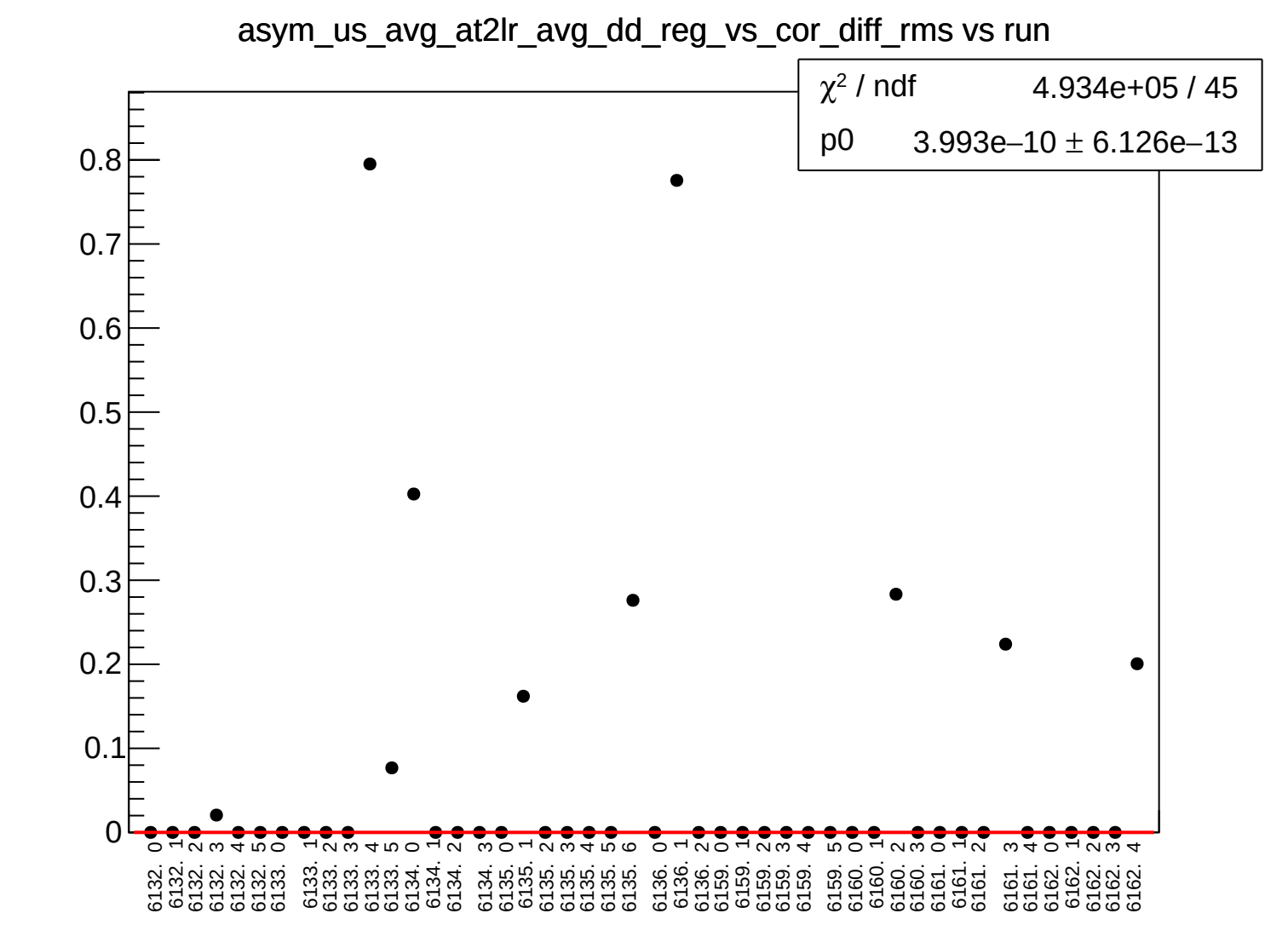

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.069e+04 / 45
p0 6490 ± 6.888
12000
11000
10000
9000
8000
7000
6000
5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

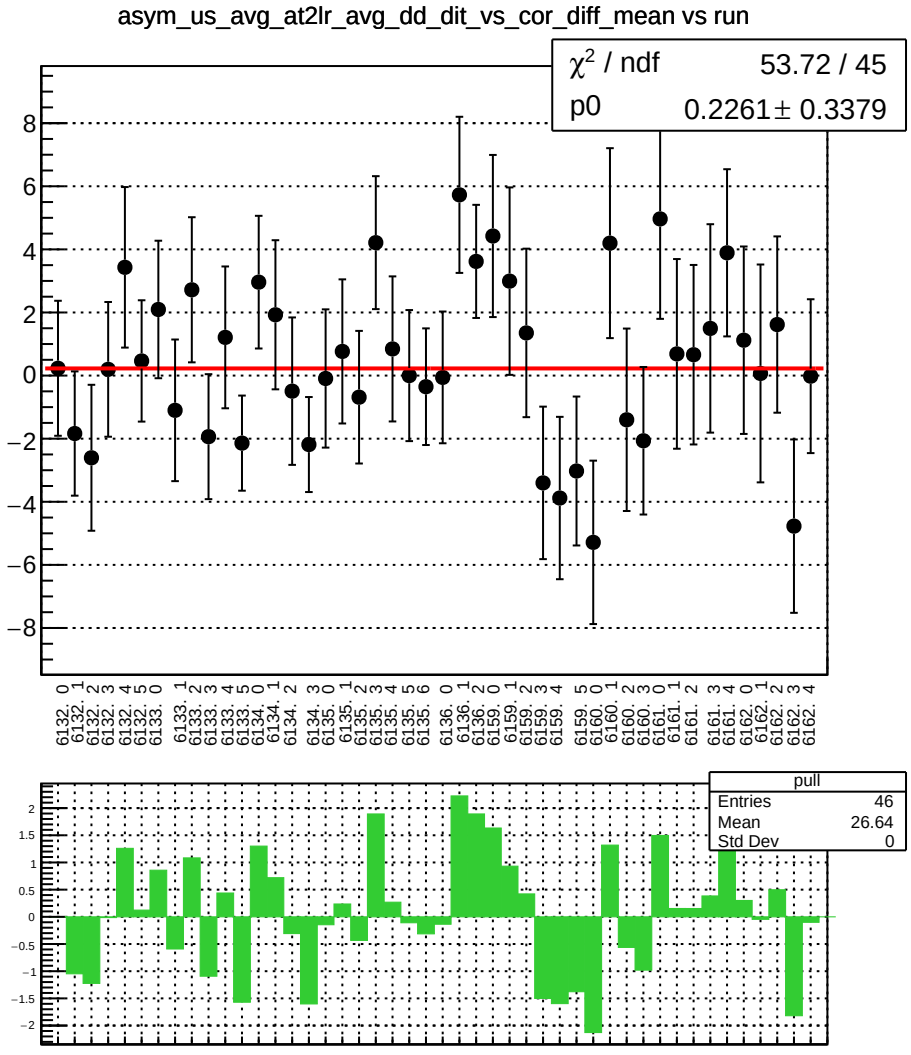

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 47.8 / 45
p0 3281± 1.001e+04
200
100
0
−100
−200
−300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 255.3
Std Dev 0
2
1
0
−1
−2

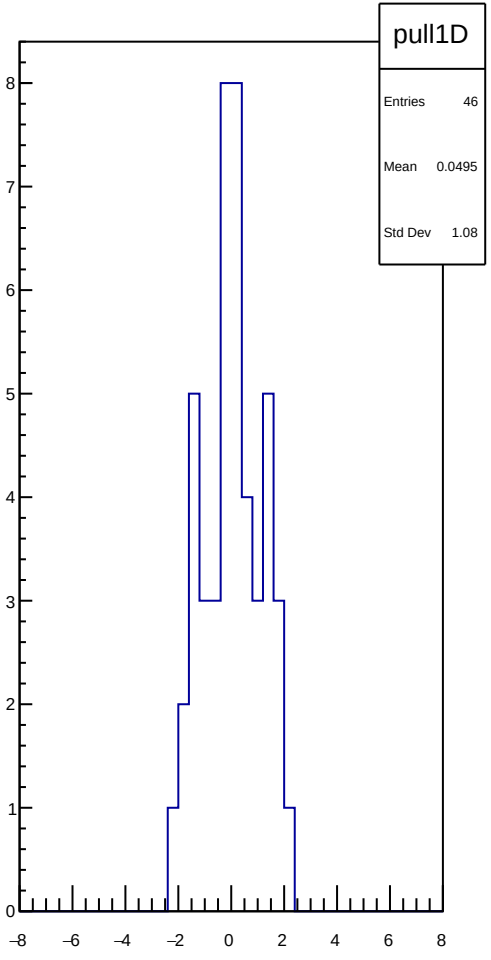

pull1D
Entries 46
Mean −0.01896
Std Dev 1.019
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

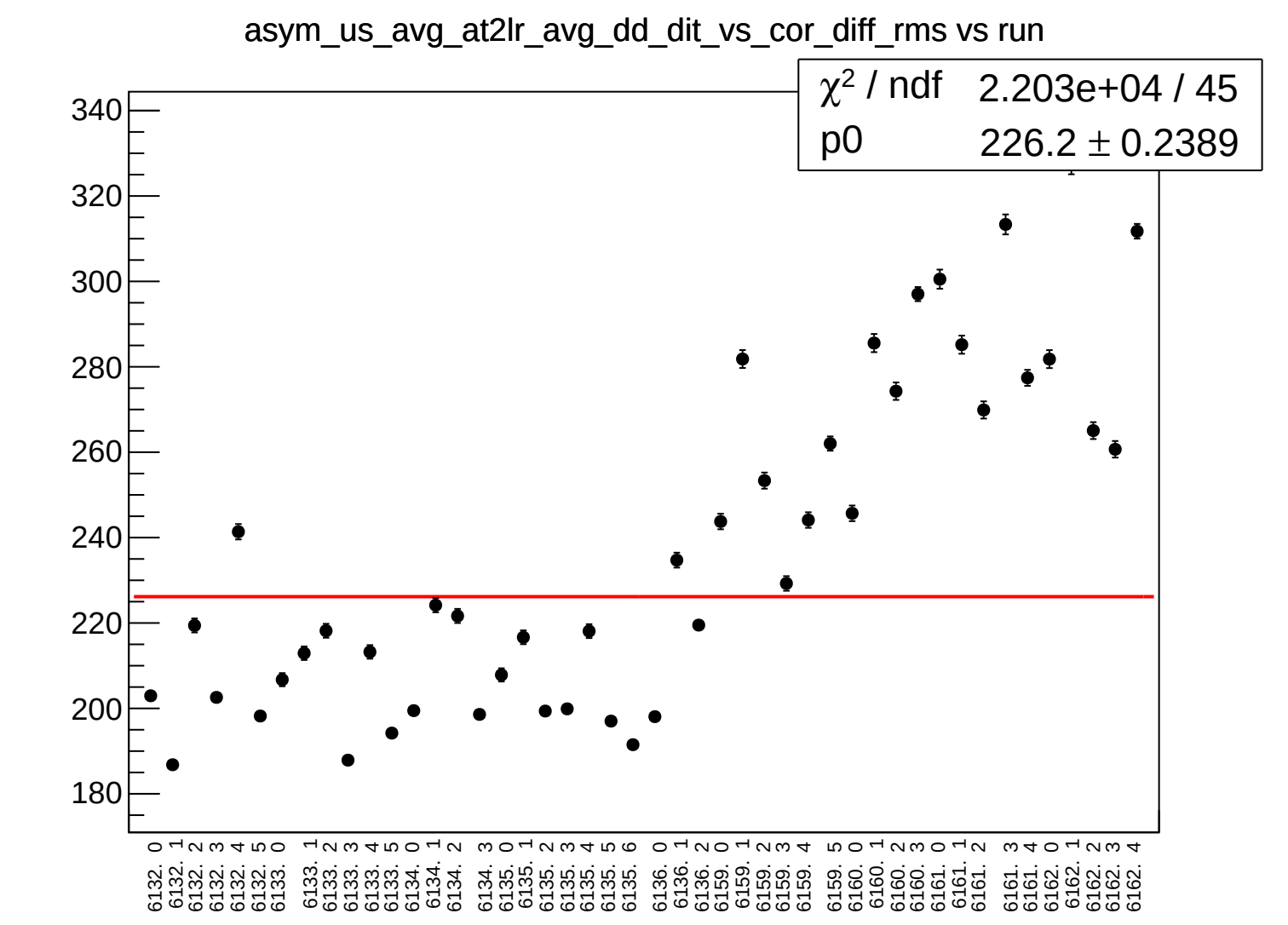

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2.892e+04 / 45
p0 6674 ± 7.077
12000
11000
10000
9000
8000
7000
6000
5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 49.72 / 45
p0 −5.526e−13 ± 8.663e−13
0.015
0.01
0.005
0
−0.005
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 4.425
Std Dev 6.956
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.129
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

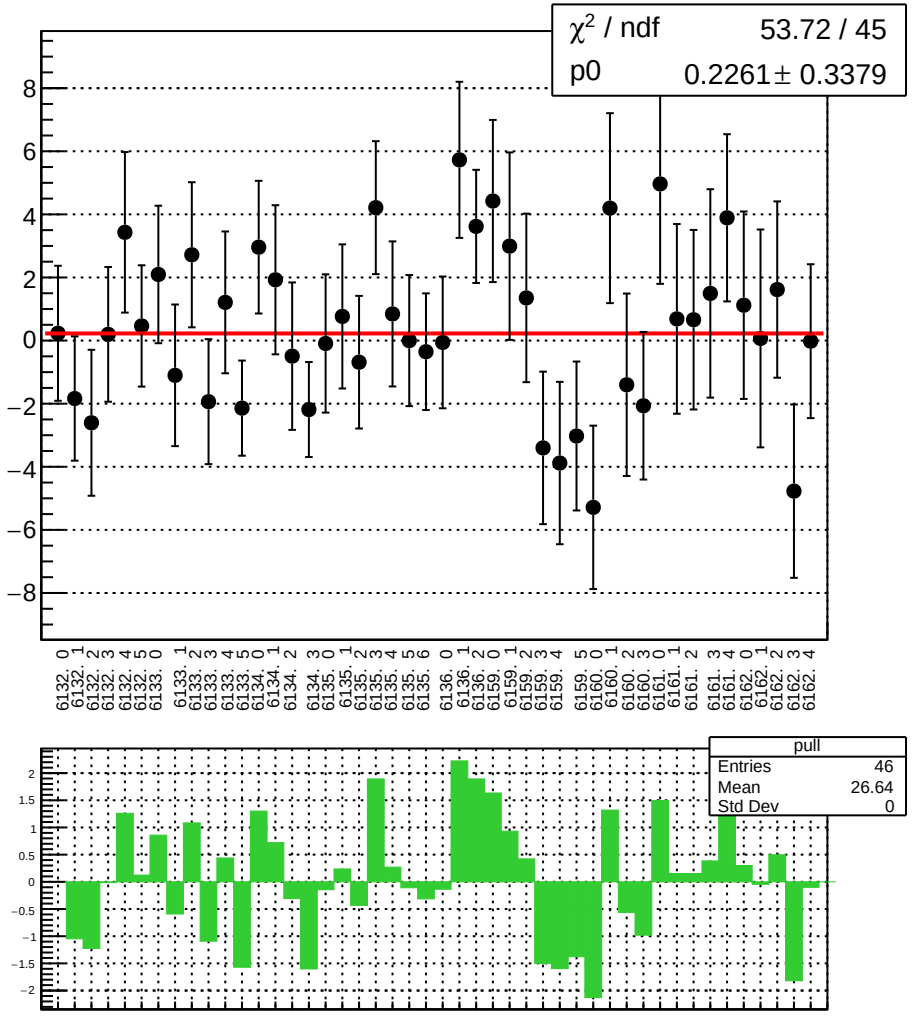

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.934e+05 / 45
p0 3.993e−10 ± 6.126e−13
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

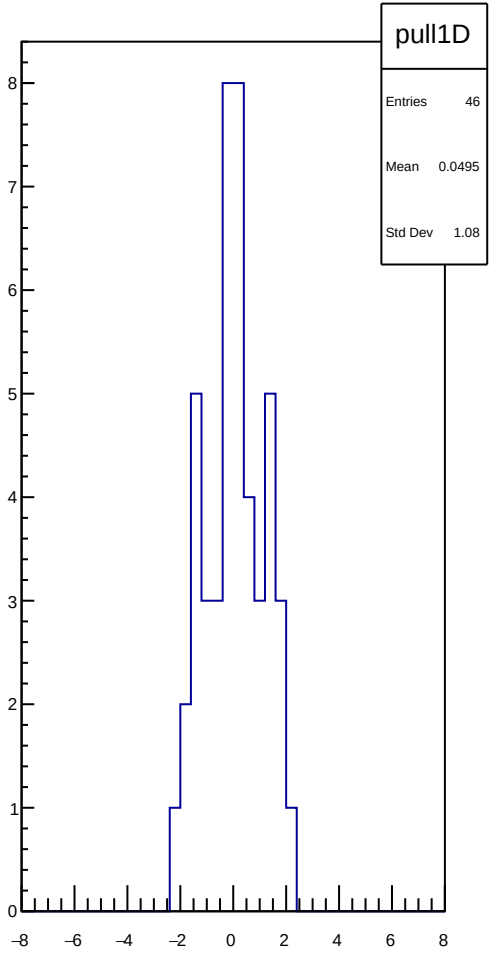

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 53.72 / 45
p0 0.2261 ± 0.3379
pull
Entries 46
Mean 26.64
Std Dev 0

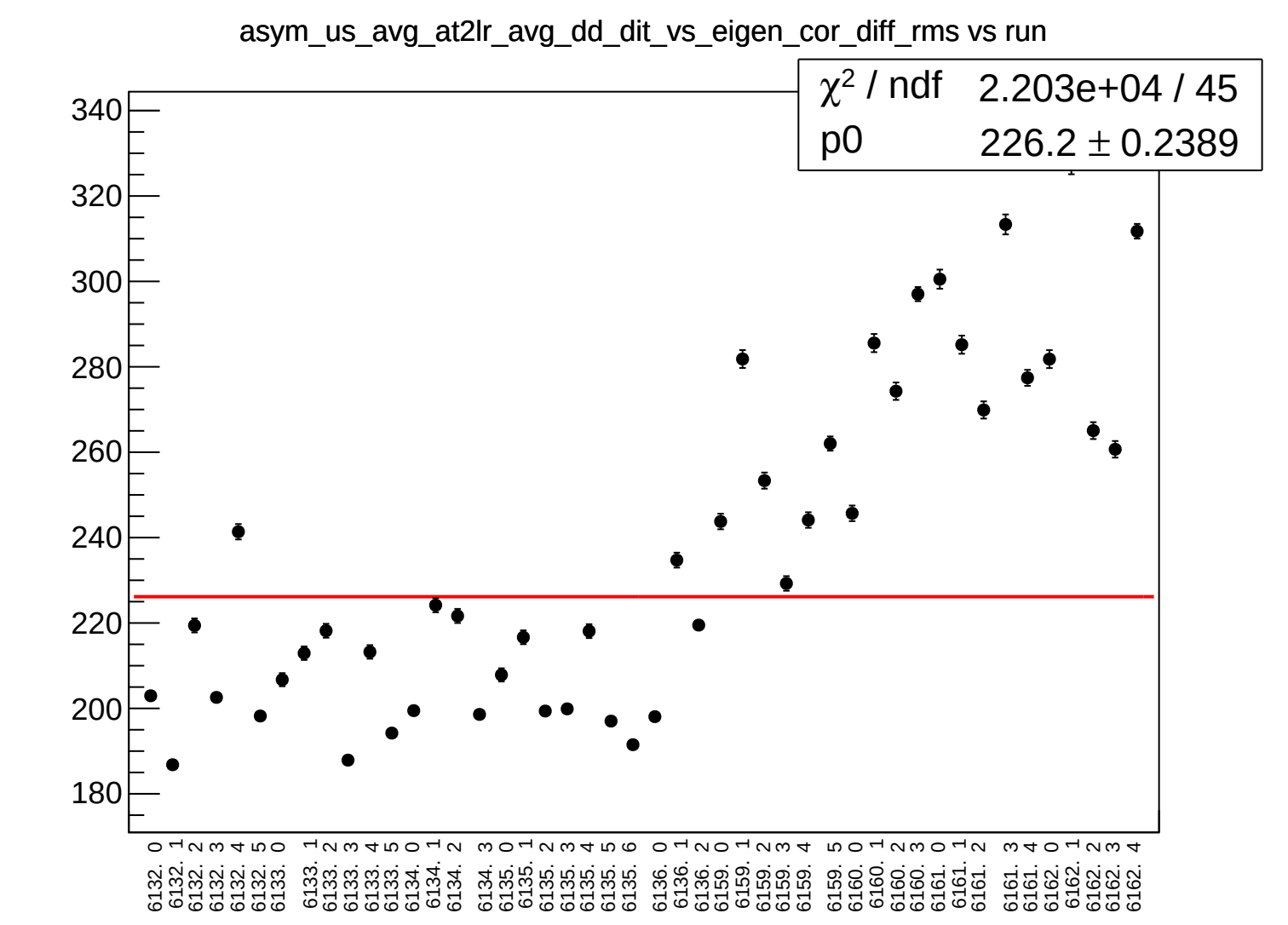

pull1D
Entries 46
Mean 0.0495
Std Dev 1.08

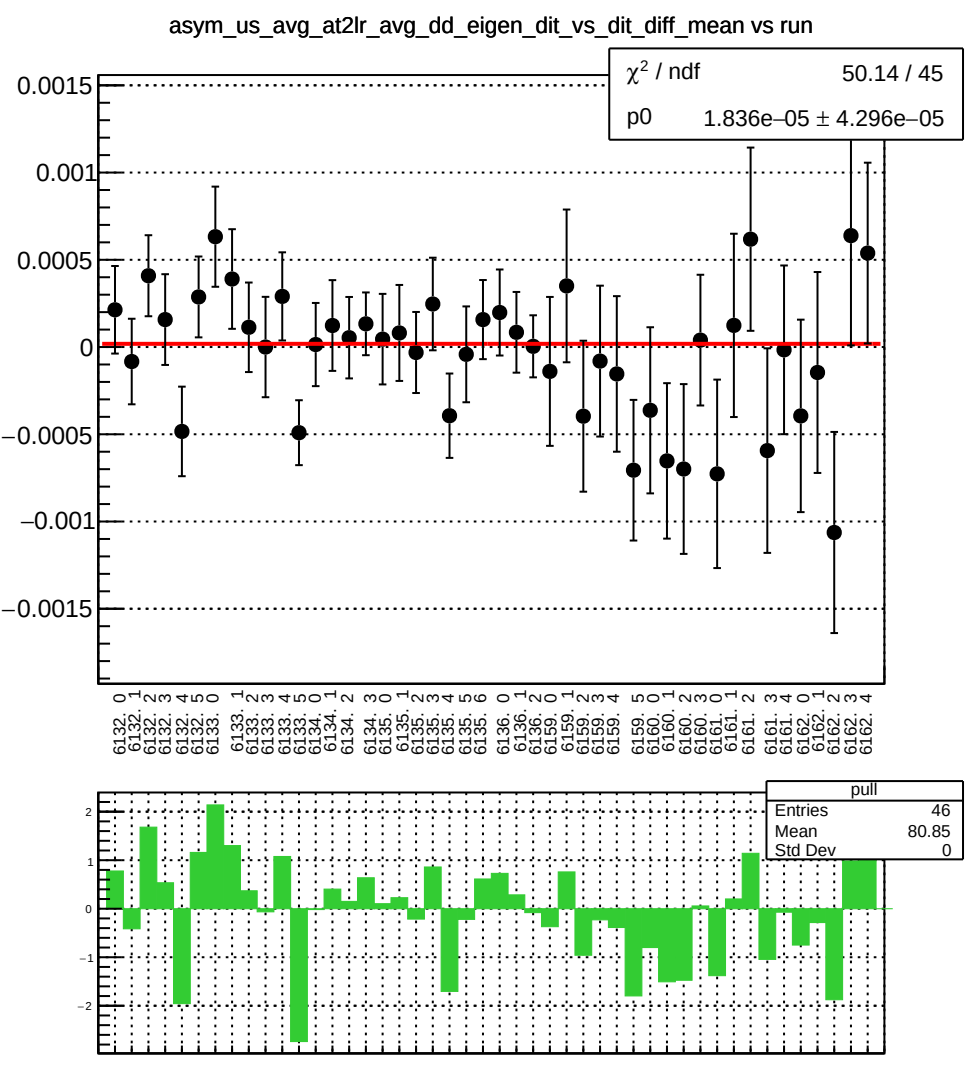

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.203e+04 / 45
p0 226.2 ± 0.2389
340
320
300
280
260
240
220
200
180
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

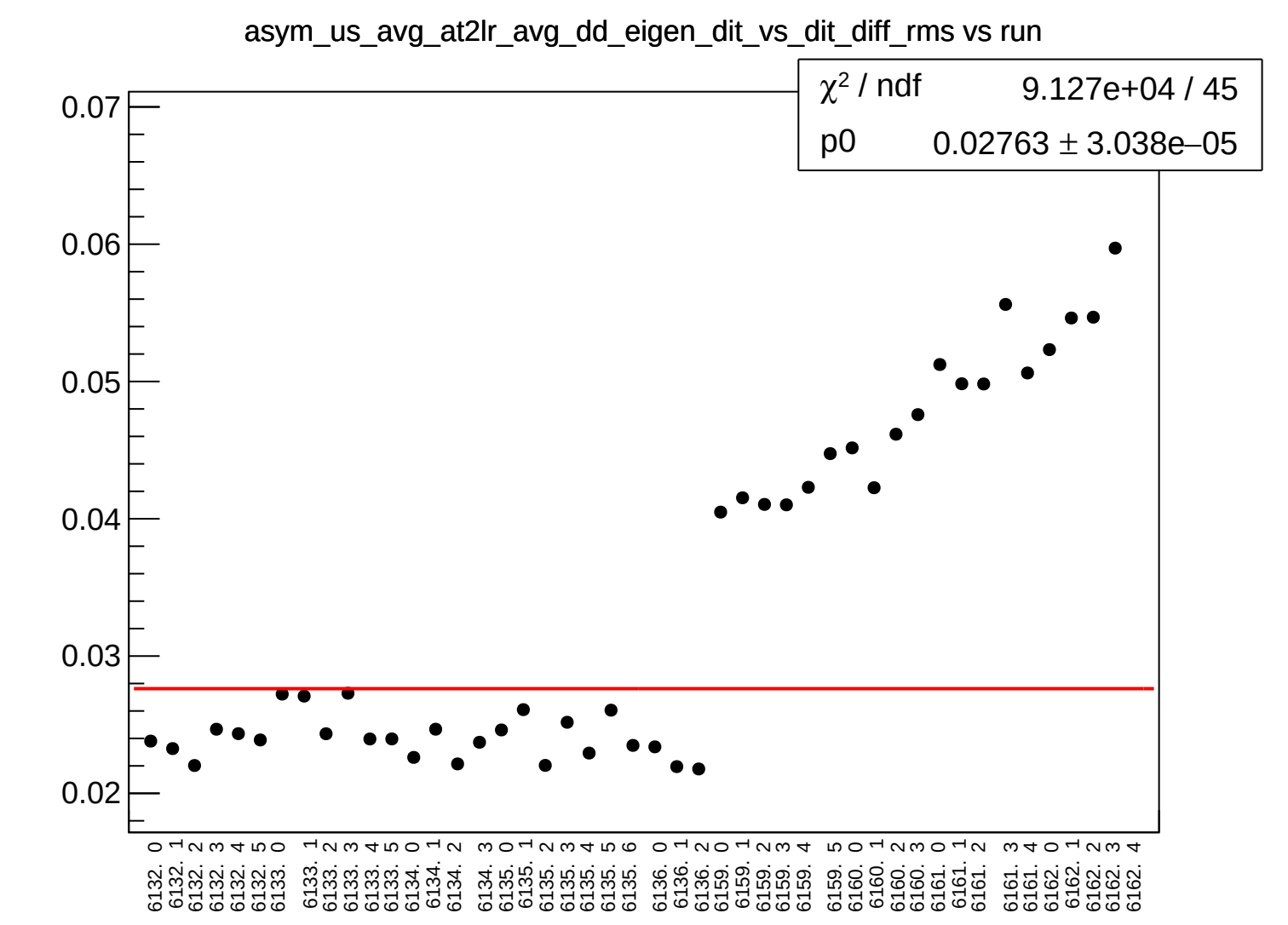
asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run

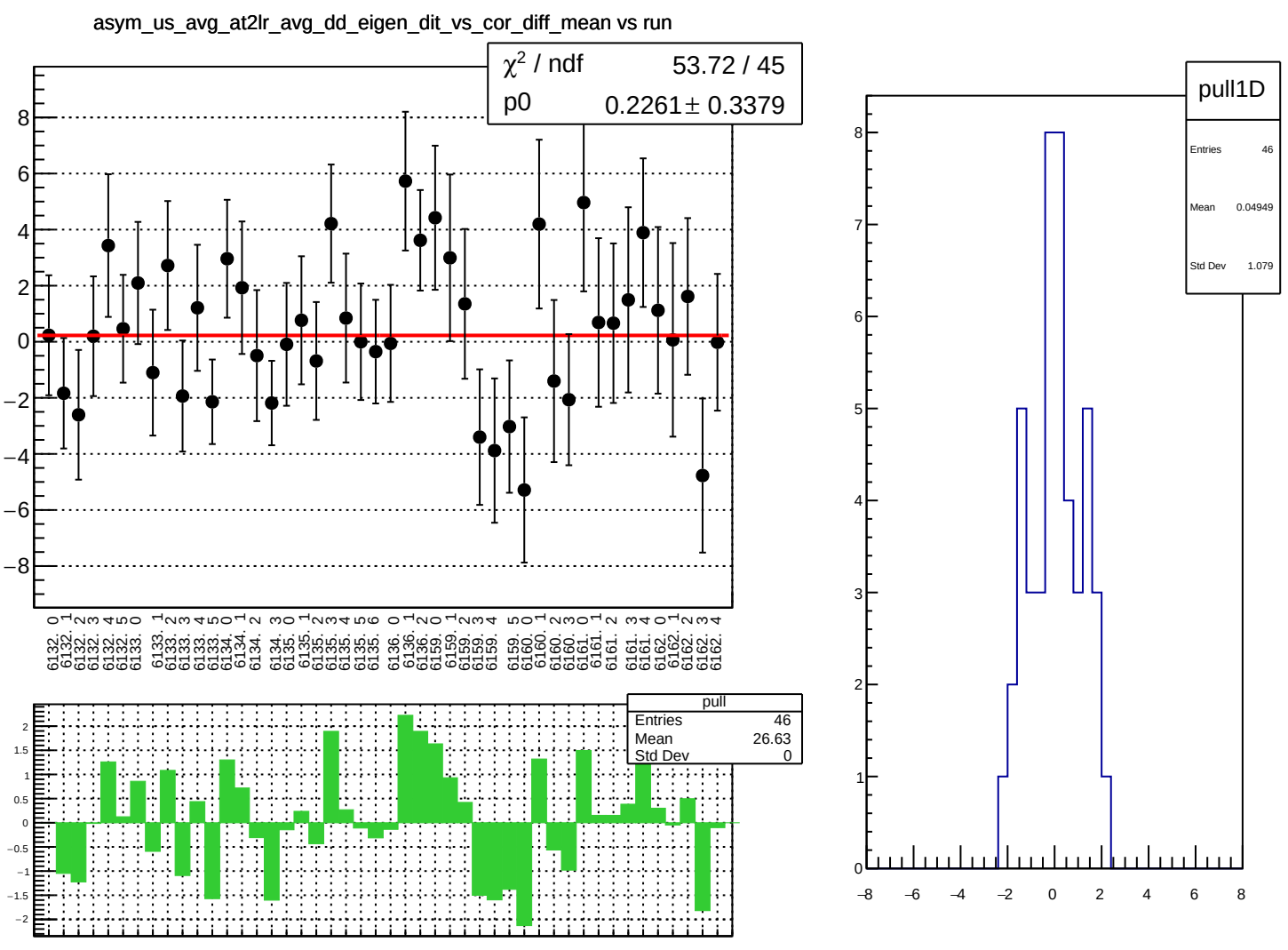


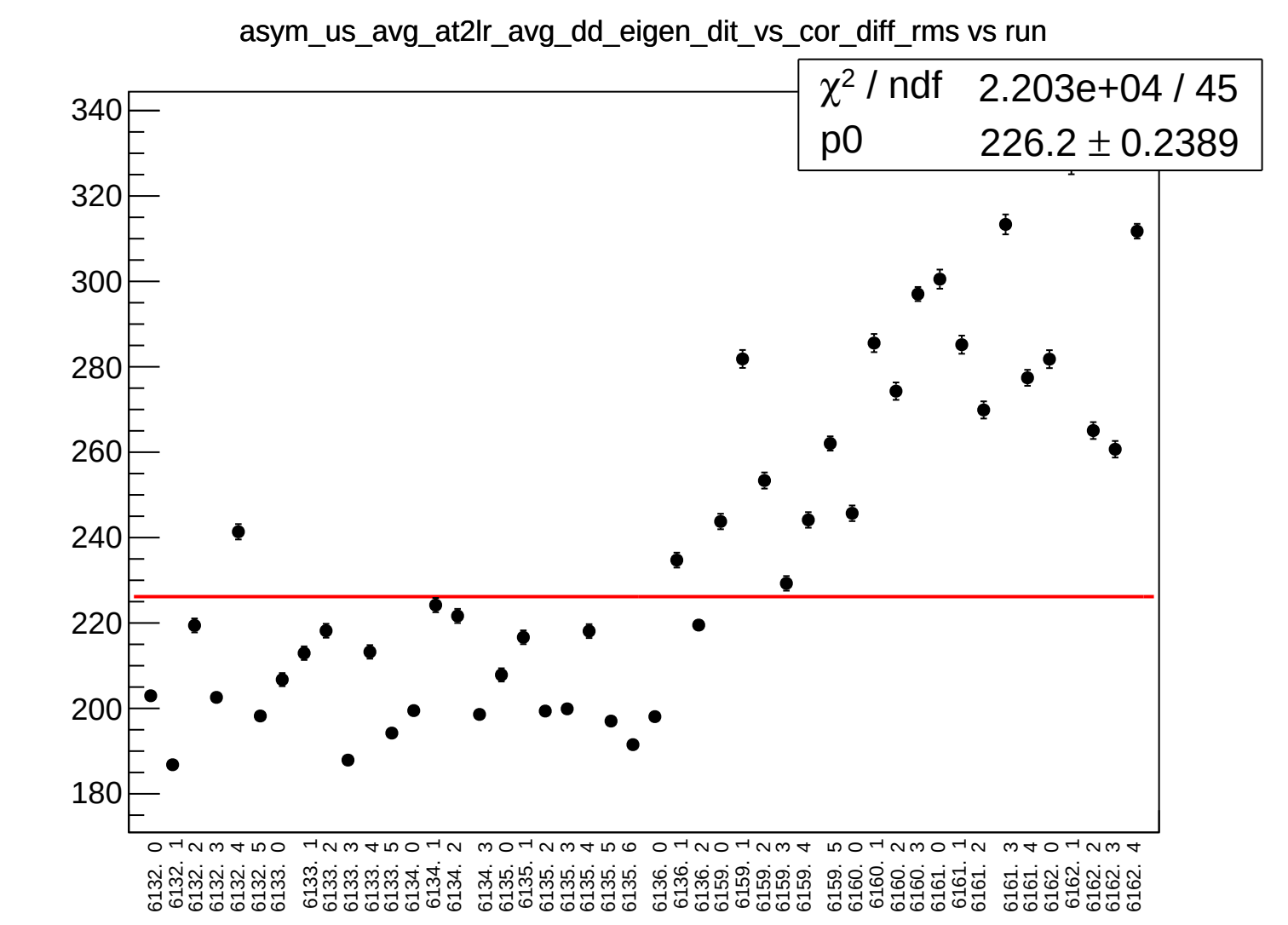



asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.203e+04 / 45
p0 226.2 ± 0.2389
340
320
300
280
260
240
220
200
180
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 50.14 / 45
p0 1.836e−05 ± 4.296e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 80.85
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.06817
Std Dev 1.042
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.127e+04 / 45
p0 0.02763 ± 3.038e−05
0.07
0.06
0.05
0.04
0.03
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 53.72 / 45
p0 0.2261 ± 0.3379
pull
Entries 46
Mean 26.63
Std Dev 0
pull1D
Entries 46
Mean 0.04949
Std Dev 1.079


asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.203e+04 / 45
p0 226.2 ± 0.2389
340
320
300
280
260
240
220
200
180
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
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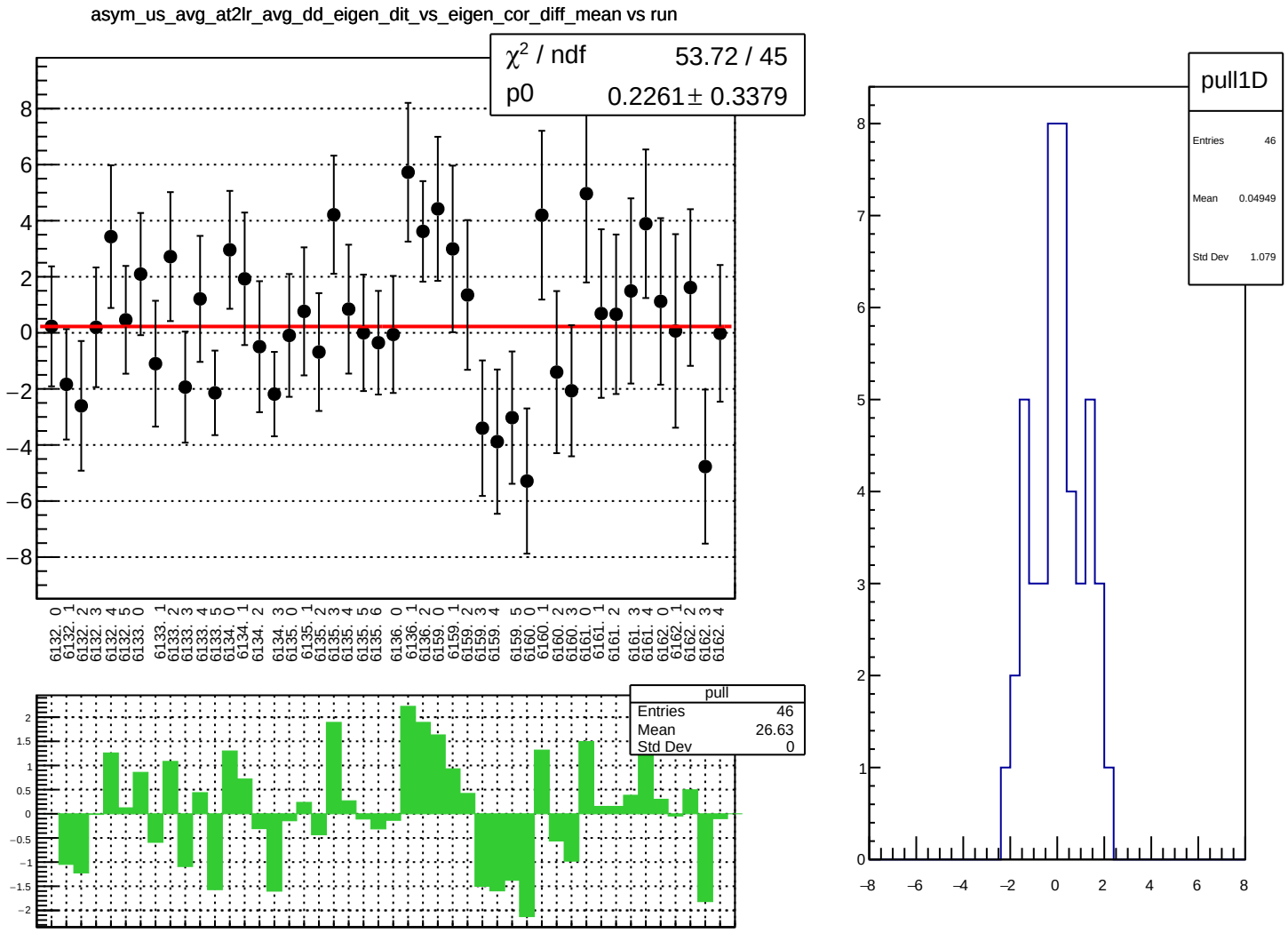
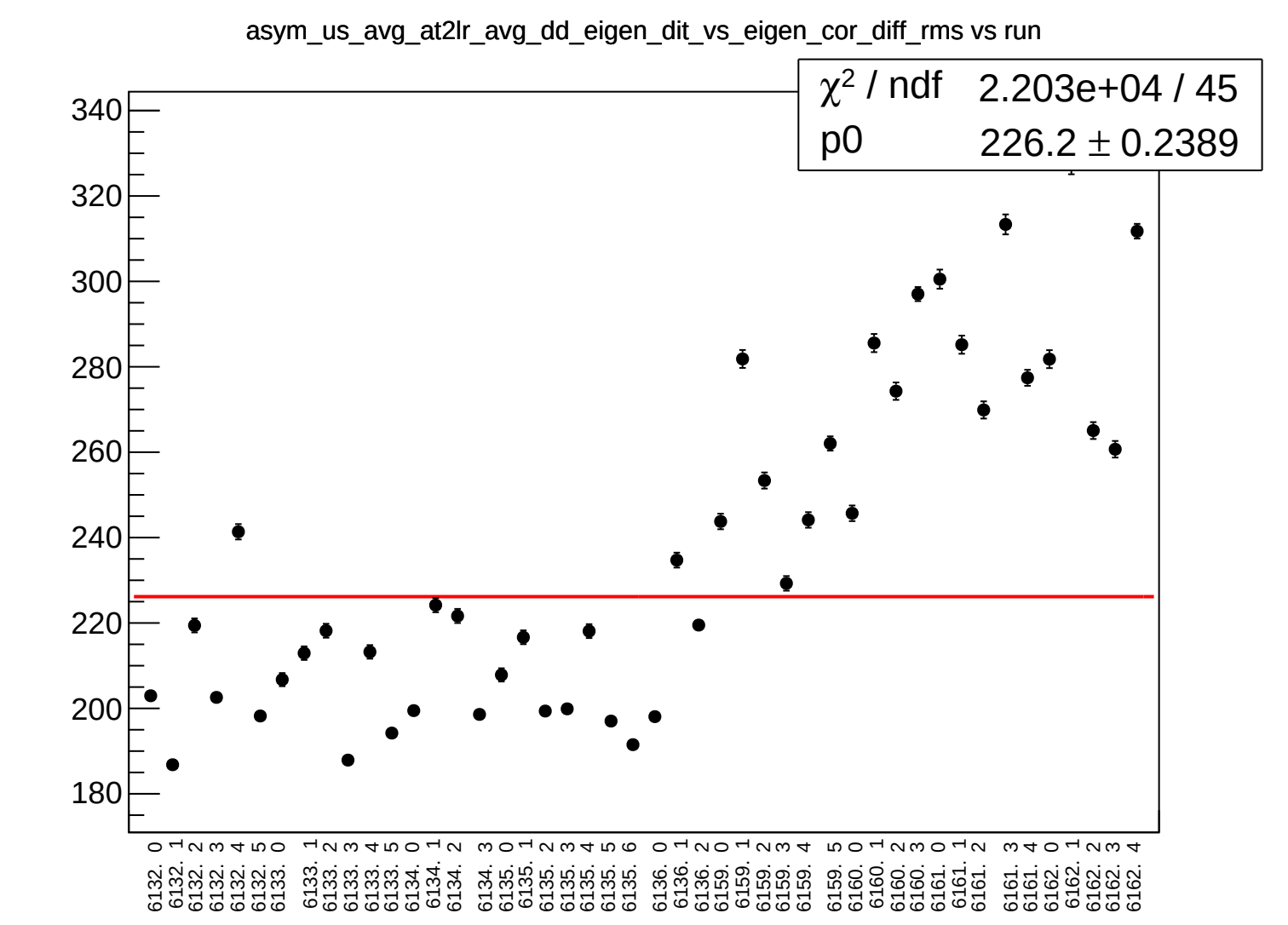
6162. 2
6162. 3
6162. 4


asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 53.72 / 45
p0 0.2261 ± 0.3379
pull
Entries 46
Mean 26.63
Std Dev 0
pull1D
Entries 46
Mean 0.04949
Std Dev 1.079


asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.203e+04 / 45
p0 226.2 ± 0.2389
340
320
300
280
260
240
220
200
180
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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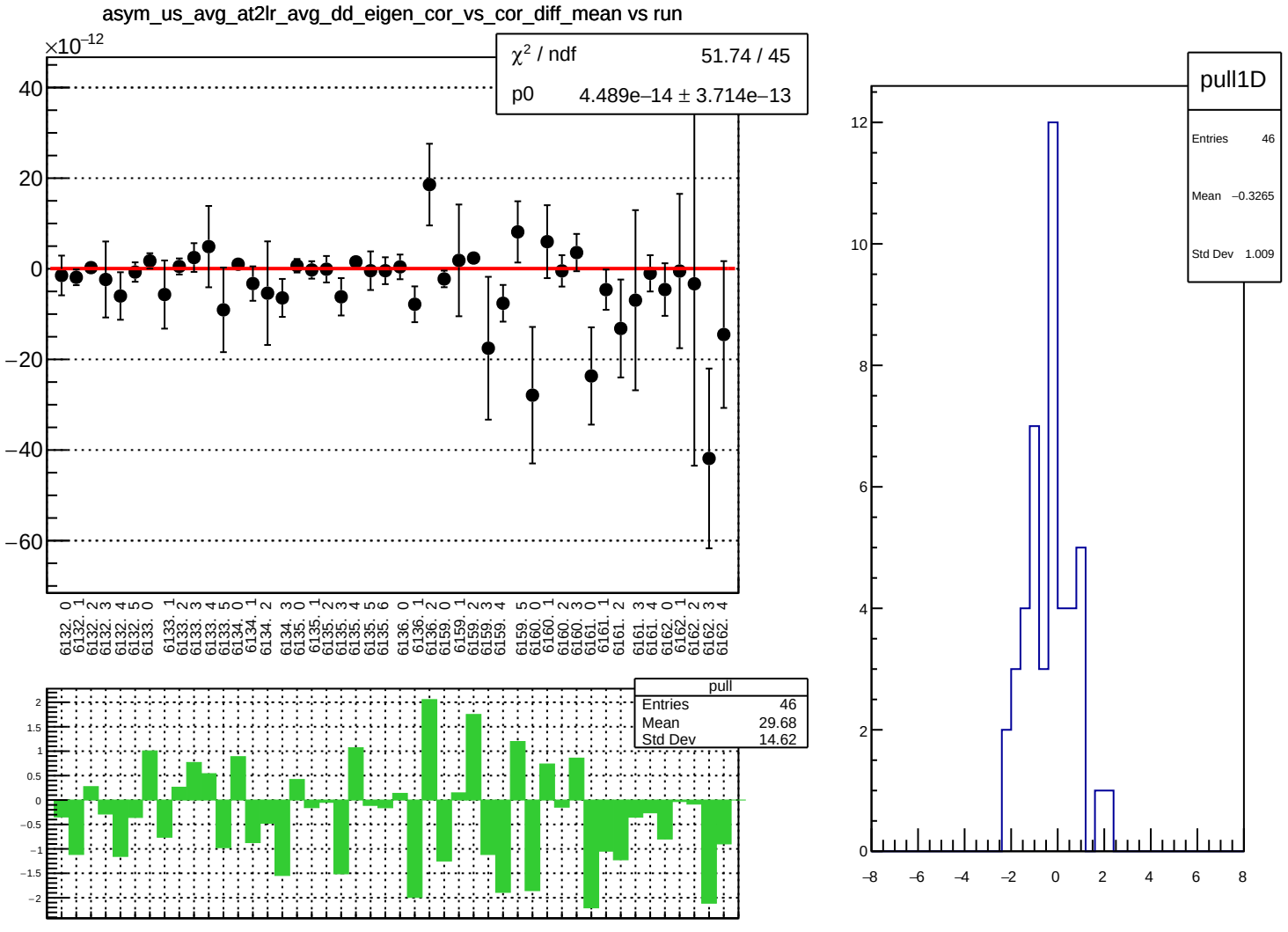
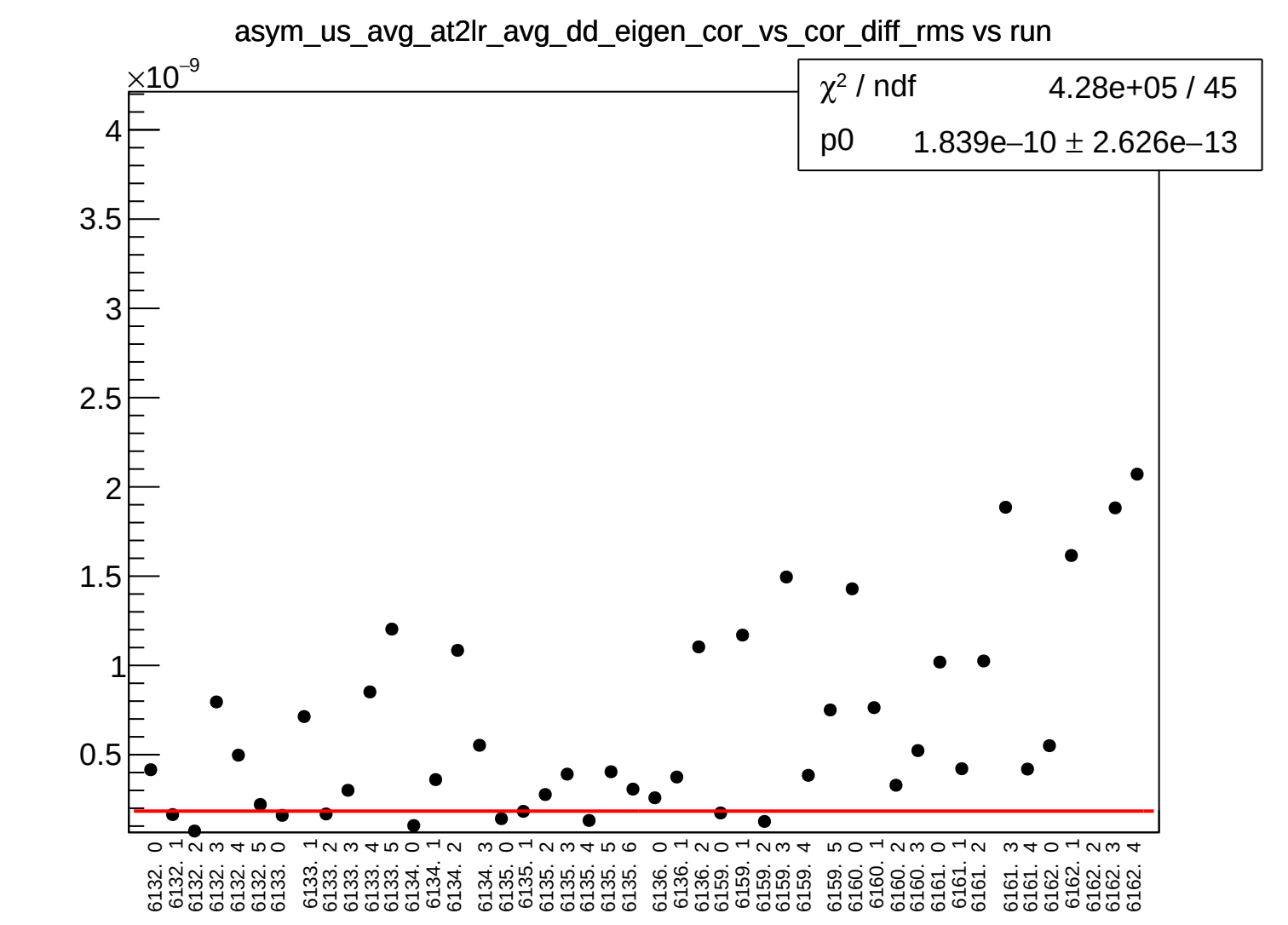
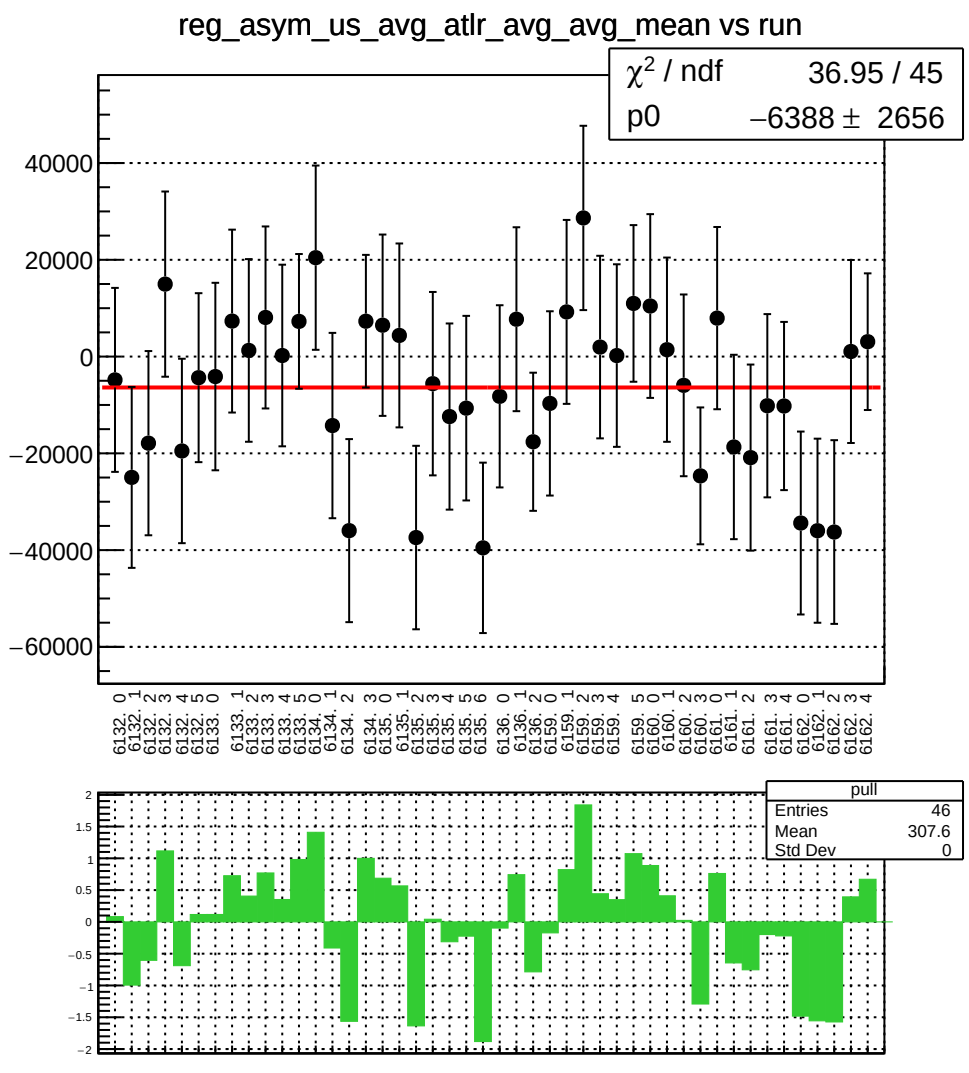
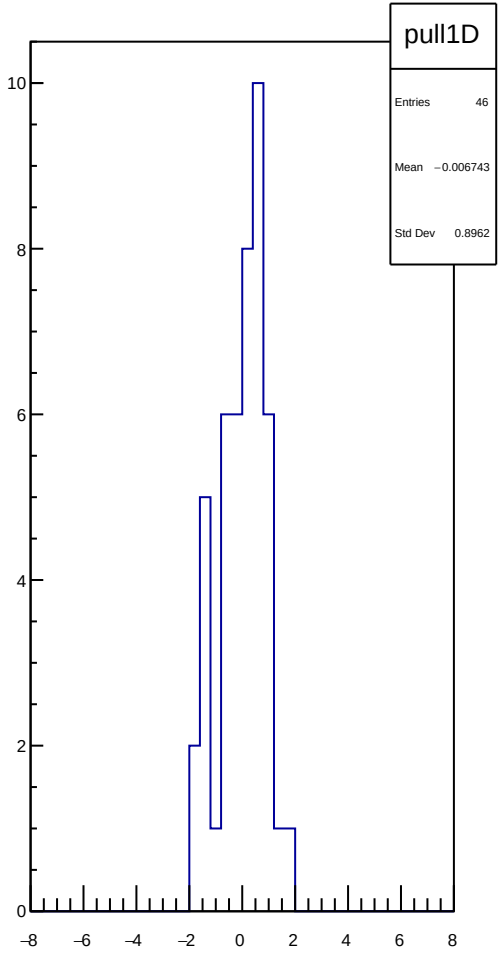
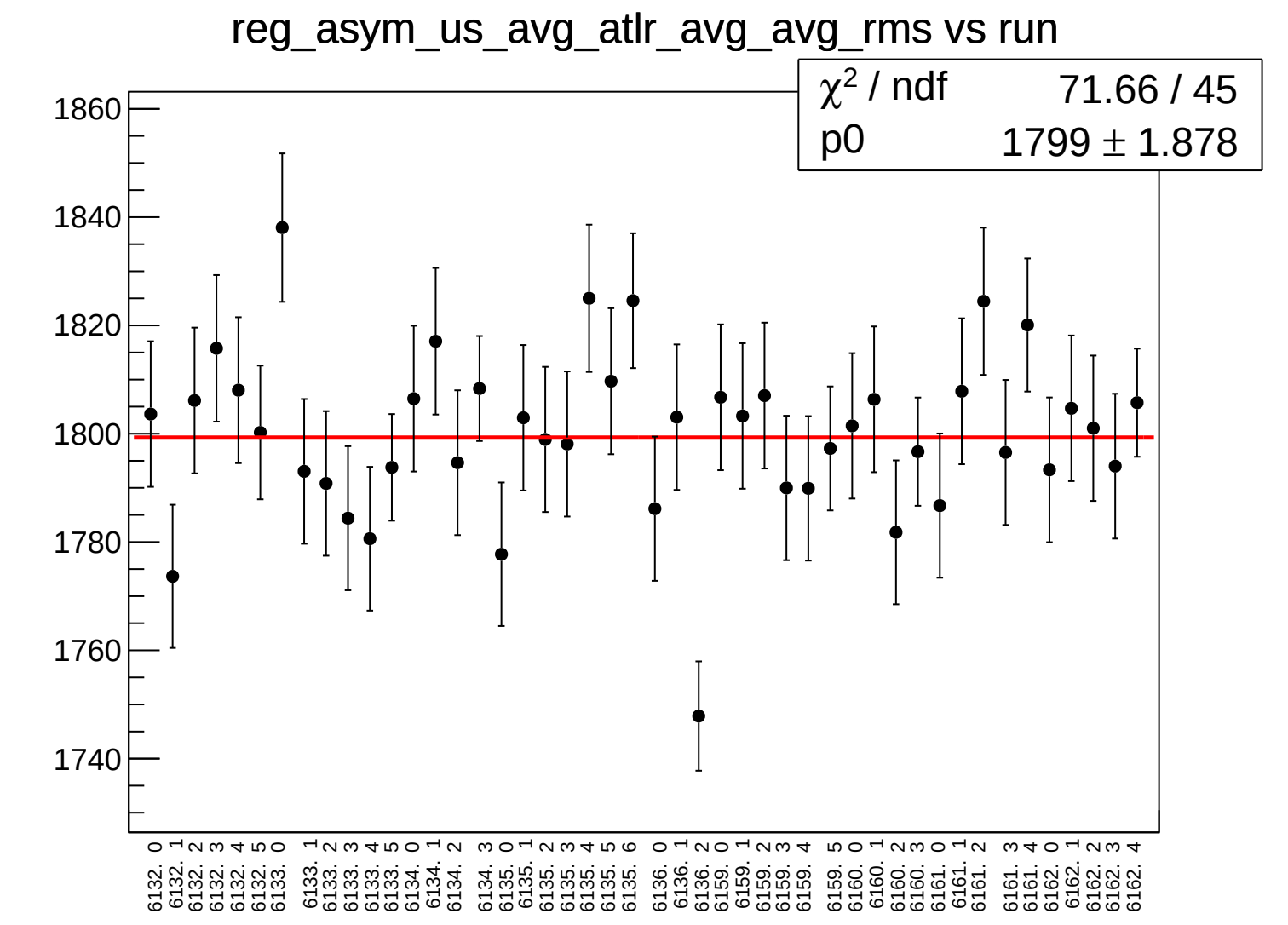
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

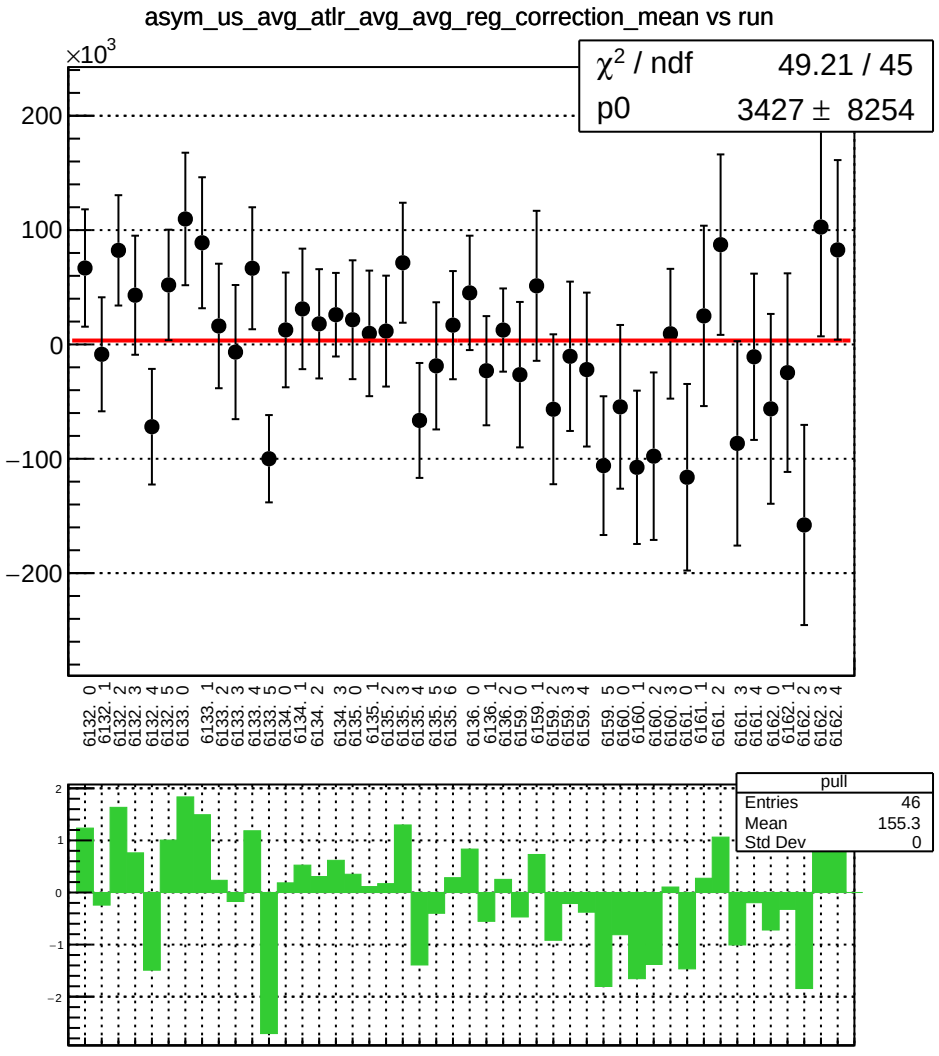

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 51.74 / 45
p0 4.489e−14 ± 3.714e−13
40
20
0
−20
−40
−60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 29.68
Std Dev 14.62
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.3265
Std Dev 1.009
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

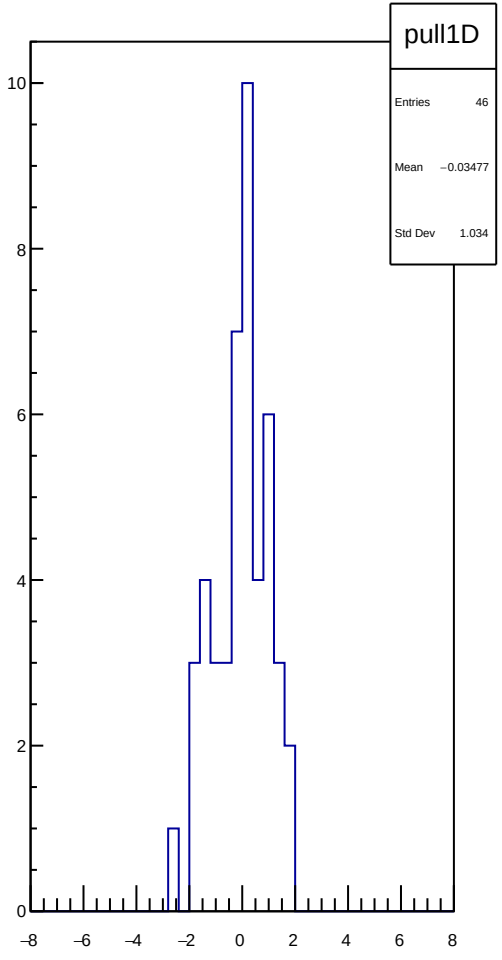

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.28e+05 / 45
p0 1.839e−10 ± 2.626e−13
4
3.5
3
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

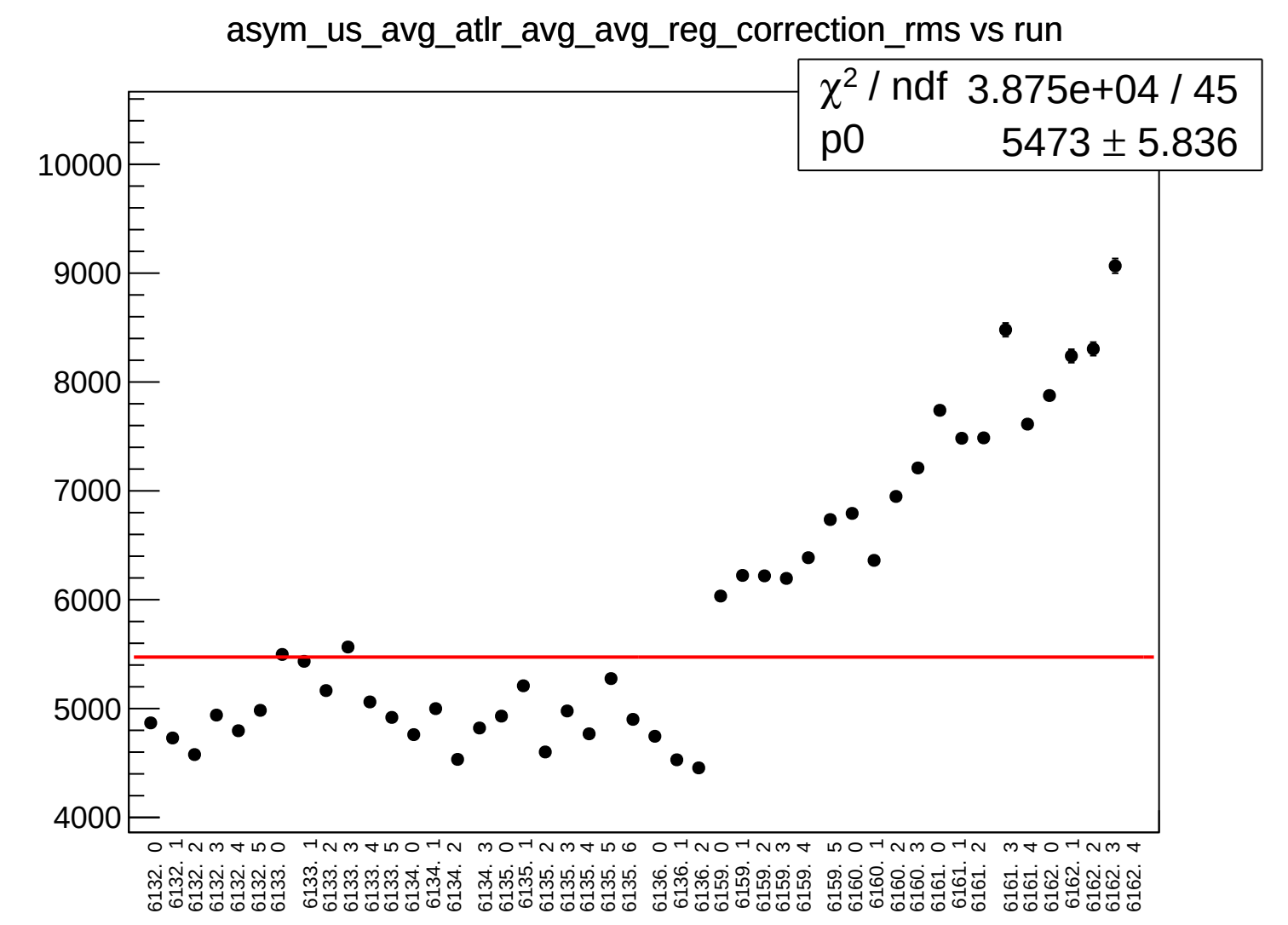

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 36.95 / 45
p0 −6388 ± 2656
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 307.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

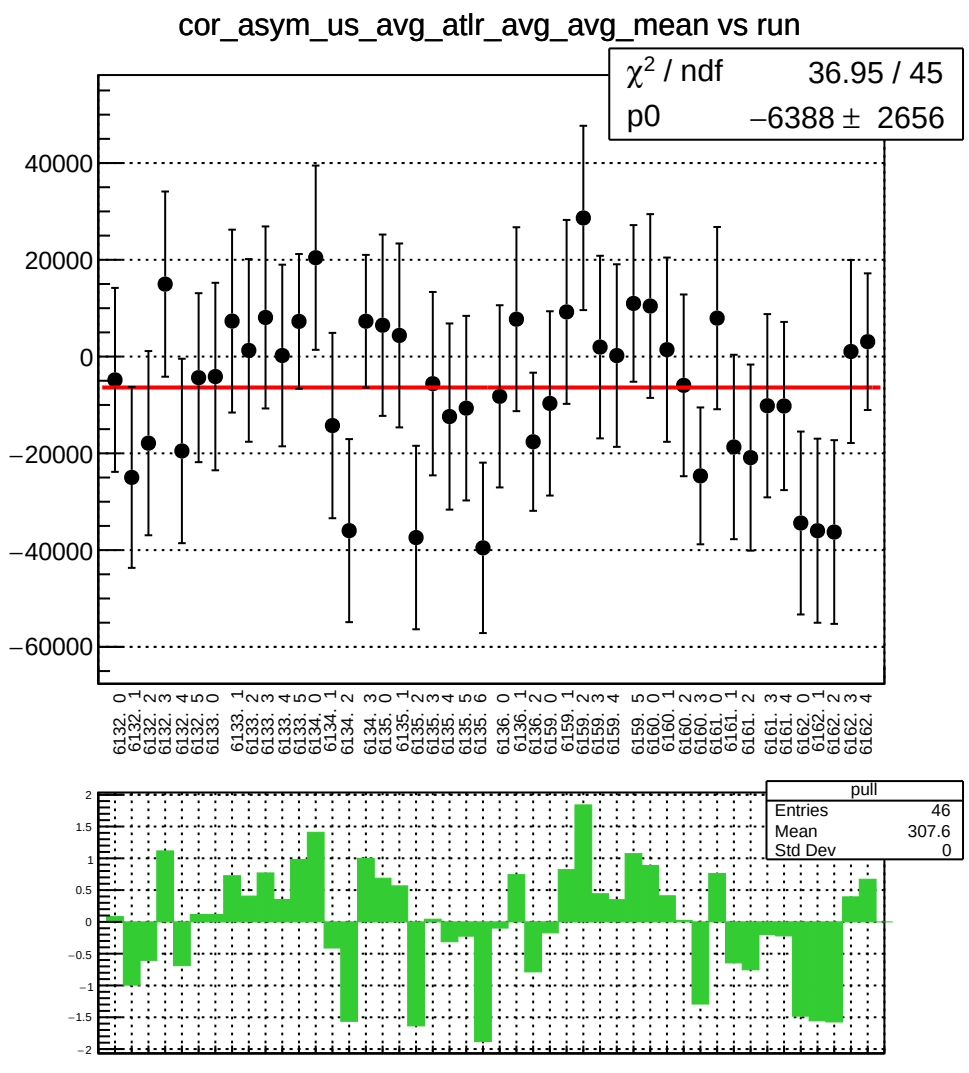

pull1D
Entries 46
Mean −0.006743
Std Dev 0.8962
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

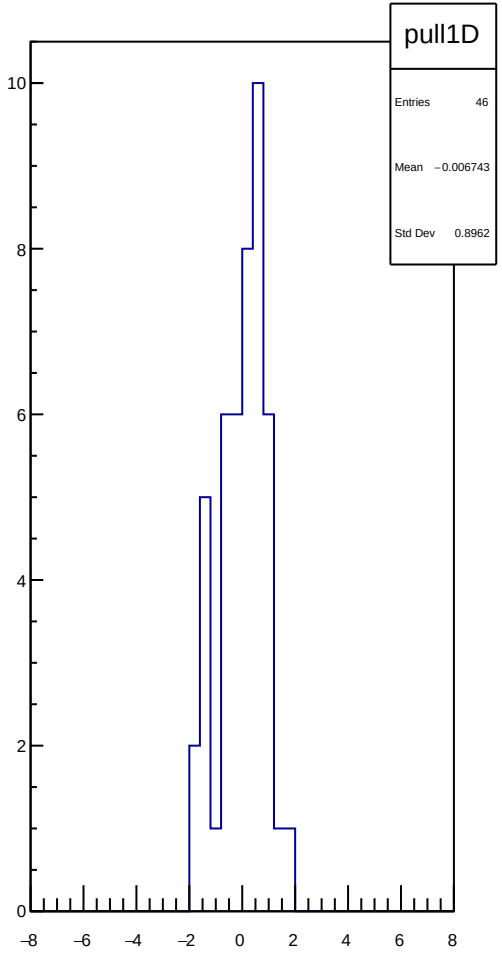

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 71.66 / 45
p0 1799 ± 1.878
1860
1840
1820
1800
1780
1760
1740
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

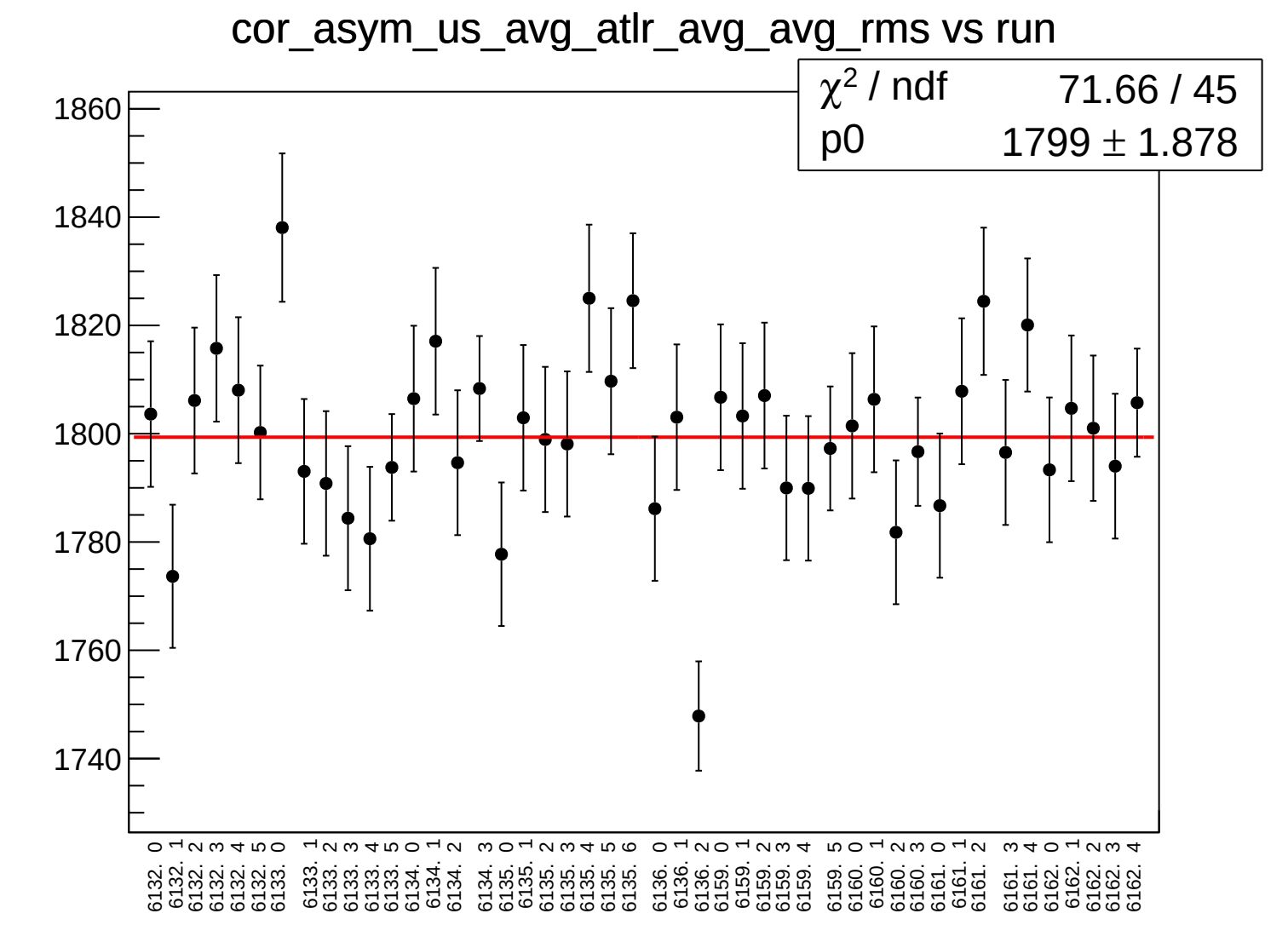

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 49.21 / 45
p0 3427 ± 8254
200
100
0
−100
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 155.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.03477
Std Dev 1.034
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 3.875e+04 / 45
p0 5473 ± 5.836
10000
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 36.95 / 45
p0 −6388 ± 2656
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 307.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean −0.006743
Std Dev 0.8962
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 71.66 / 45
p0 1799 ± 1.878
1860
1840
1820
1800
1780
1760
1740
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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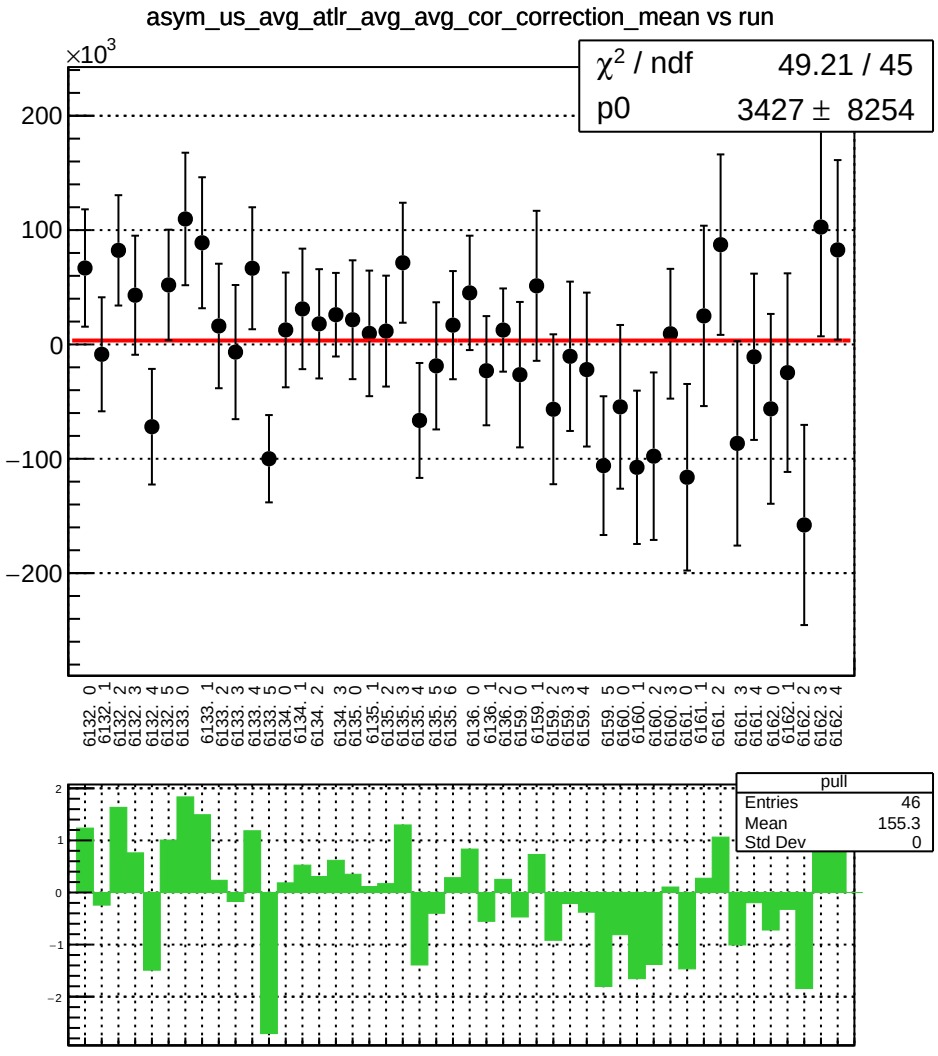
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 49.21 / 45
p0 3427 ± 8254
200
100
0
−100
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
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6133. 3
6133. 4
6133. 5
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6134. 2
6134. 3
6135. 0
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6135. 2
6135. 3
6135. 4
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6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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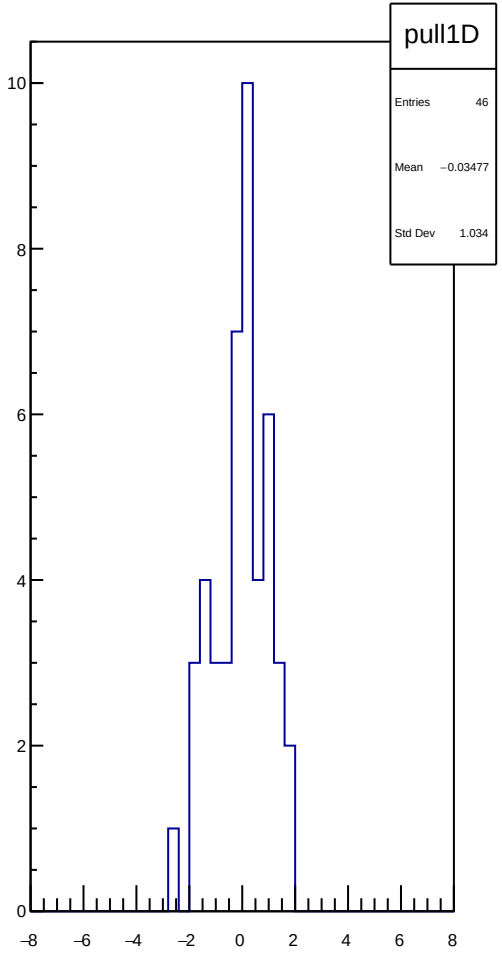
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 155.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.03477
Std Dev 1.034
10
8
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4
2
0
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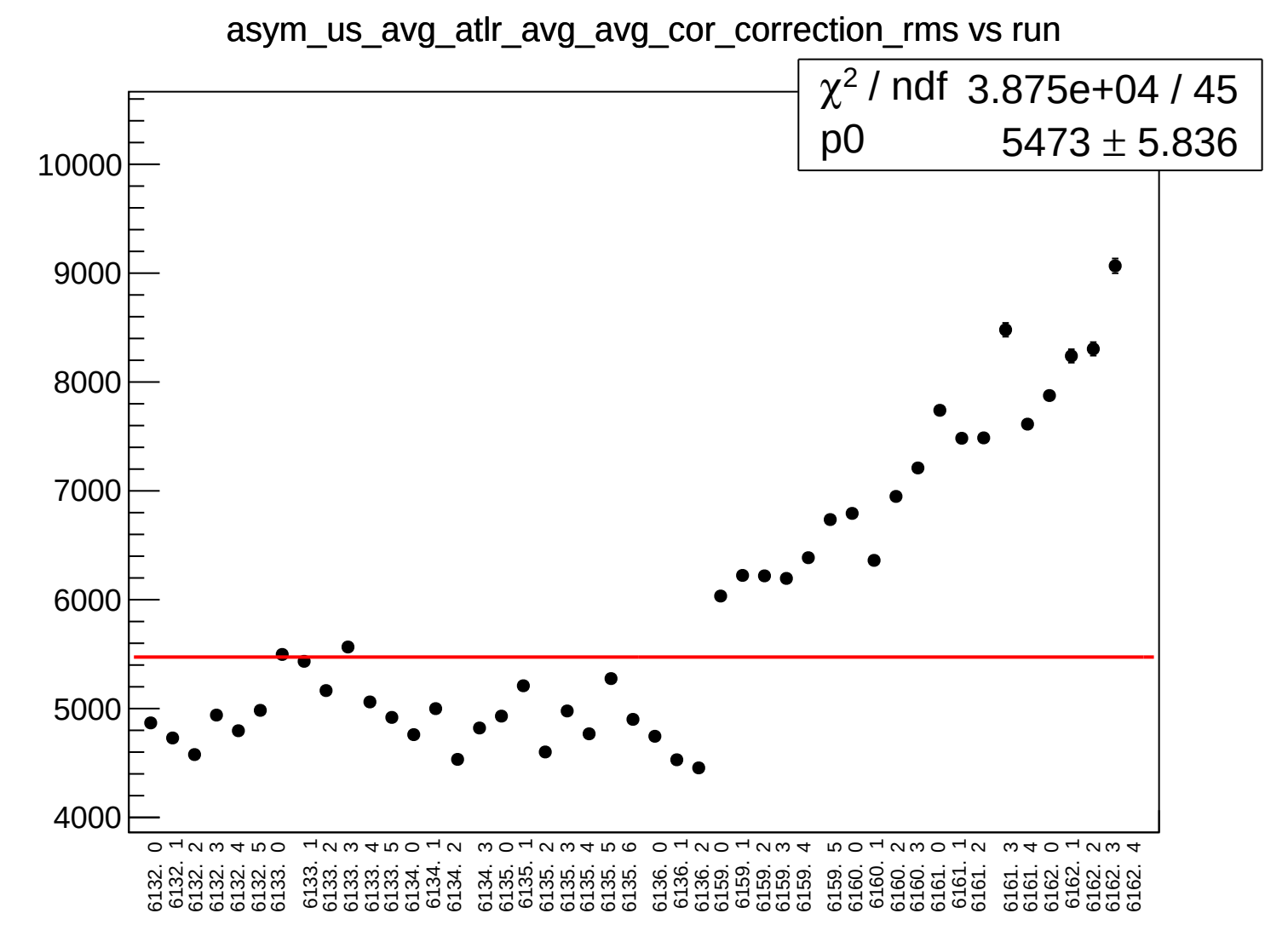
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 3.875e+04 / 45
p0 5473 ± 5.836
10000
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 4
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6134. 1
6134. 2
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6135. 1
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6136. 0
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6160. 0
6160. 1
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6160. 3
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6162. 0
6162. 1
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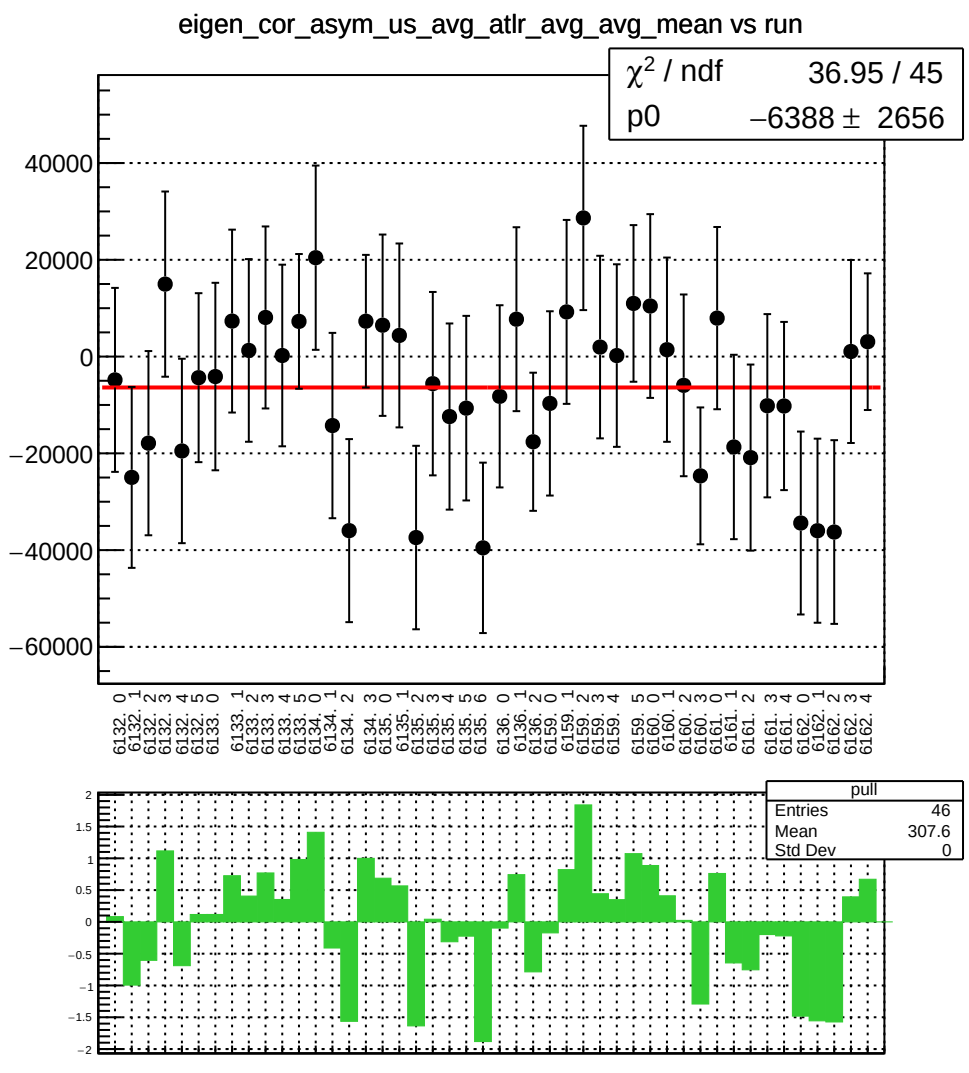
6162. 3
6162. 4


eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 36.95 / 45
p0 −6388 ± 2656
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
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6135. 6
6136. 0
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6159. 1
6159. 2
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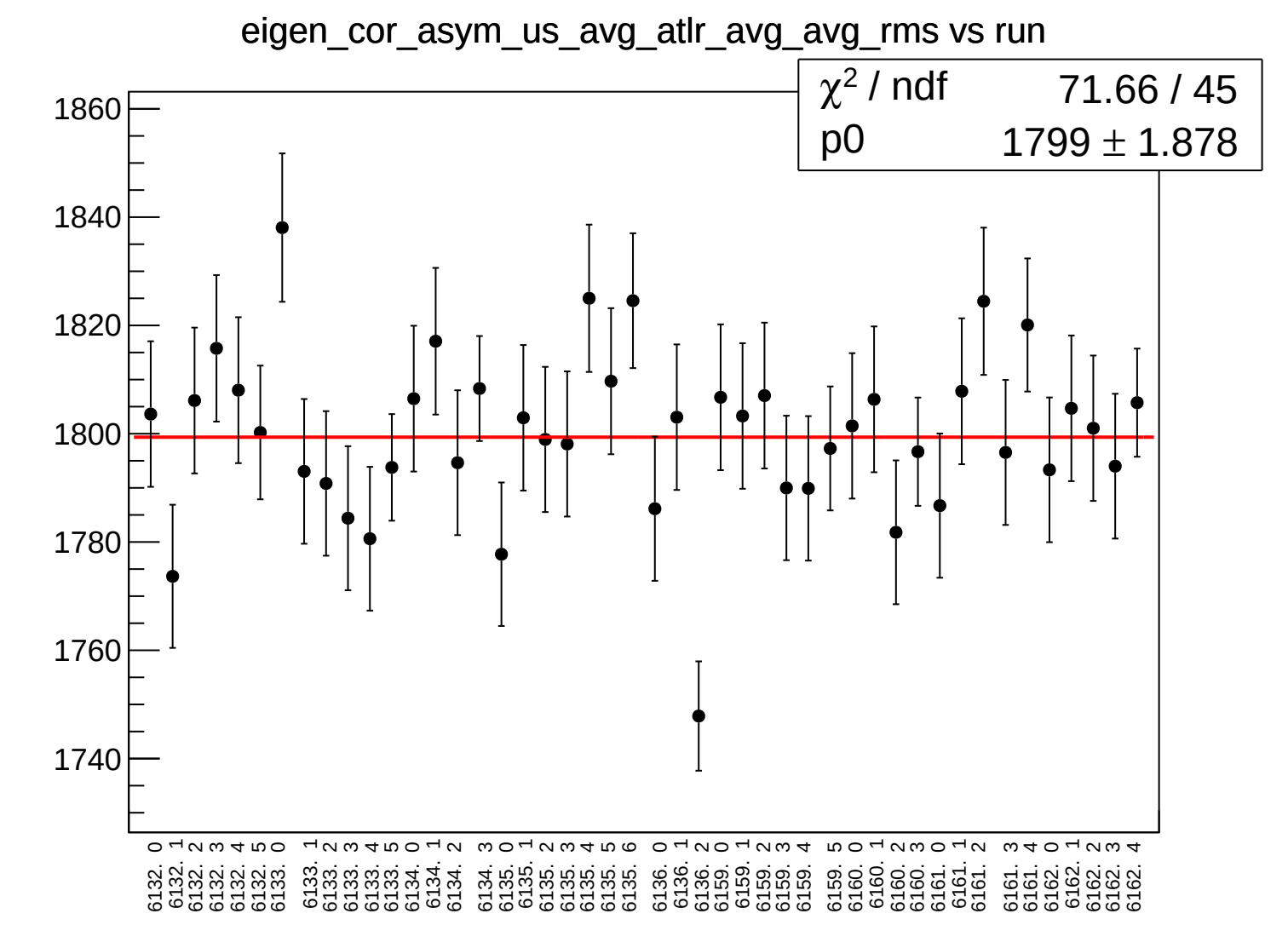
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 307.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.006743
Std Dev 0.8962
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 71.66 / 45
p0 1799 ± 1.878
1860
1840
1820
1800
1780
1760
1740
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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6133. 4
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6134. 0
6134. 1
6134. 2
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6135. 0
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6135. 3
6135. 4
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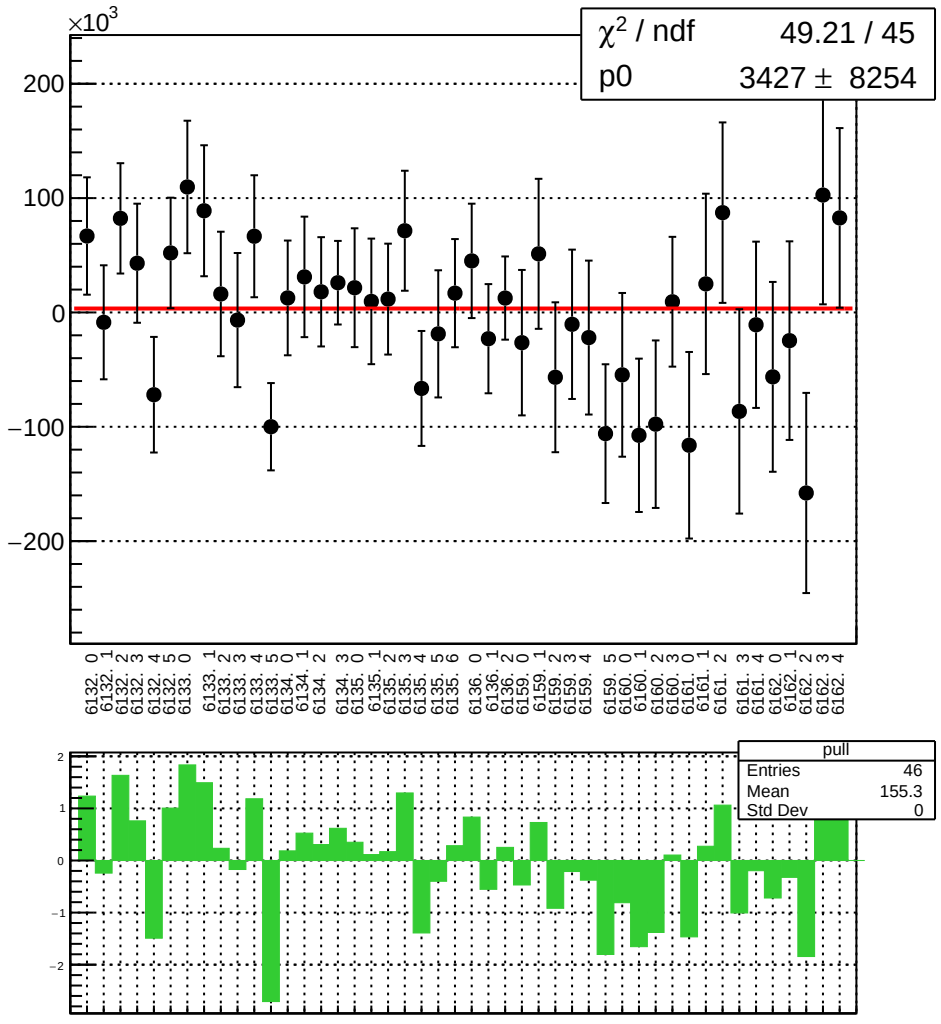
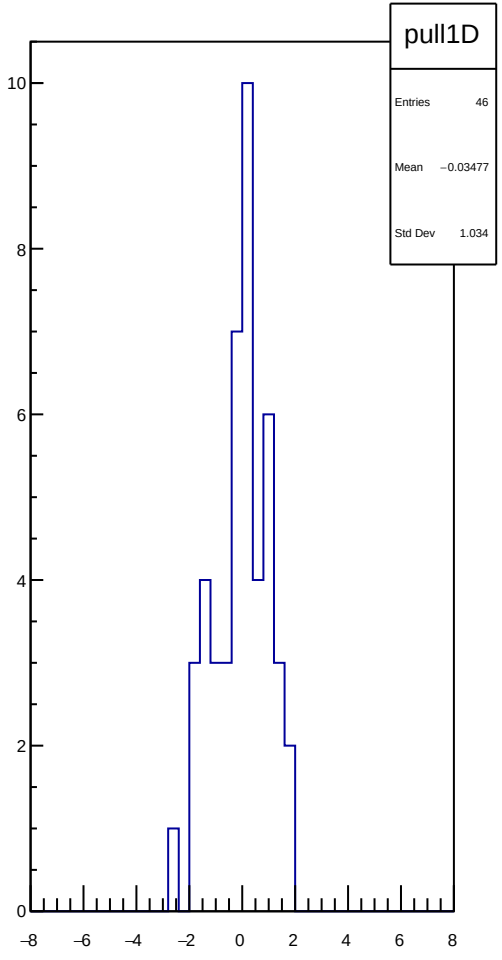
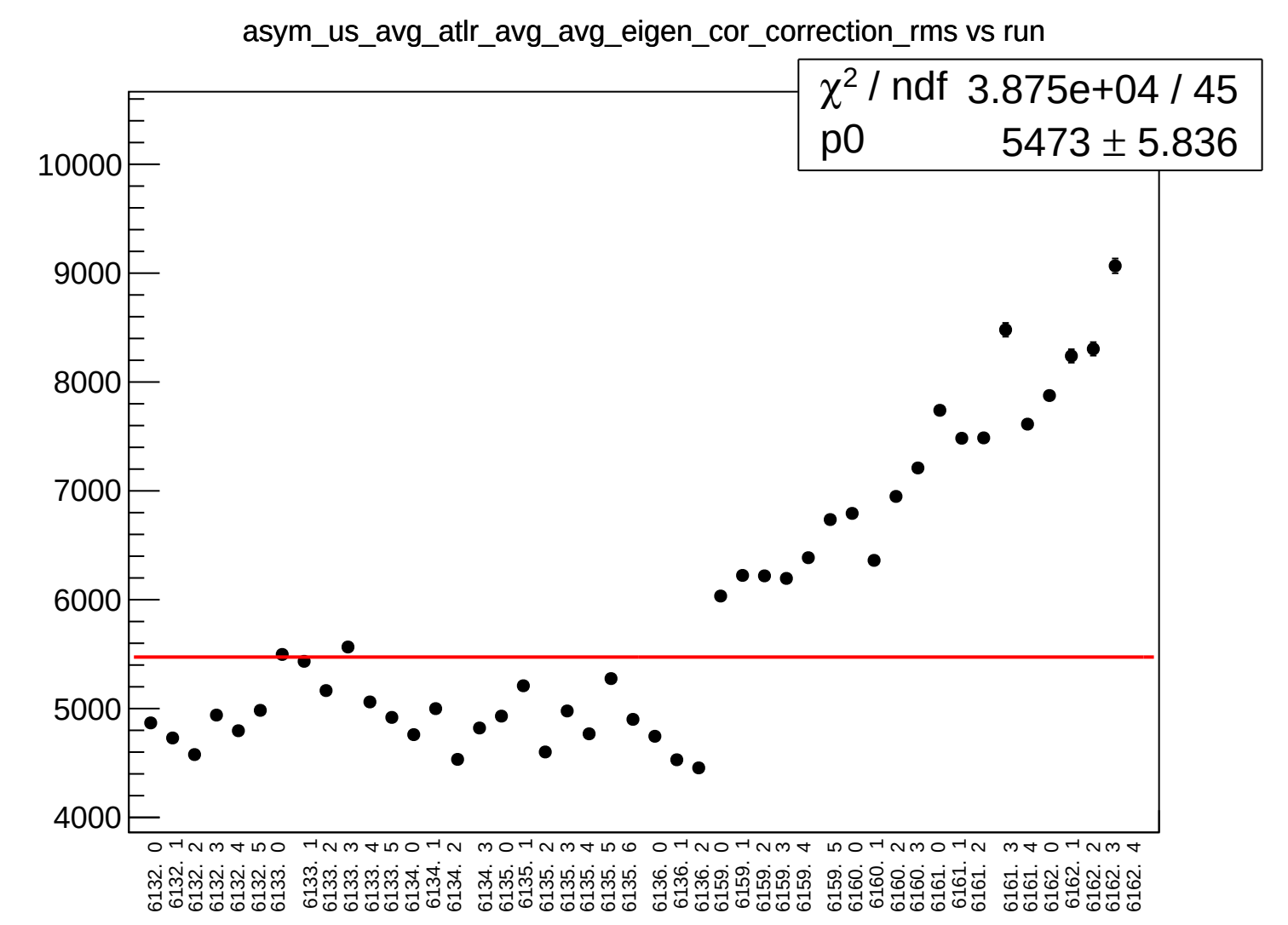
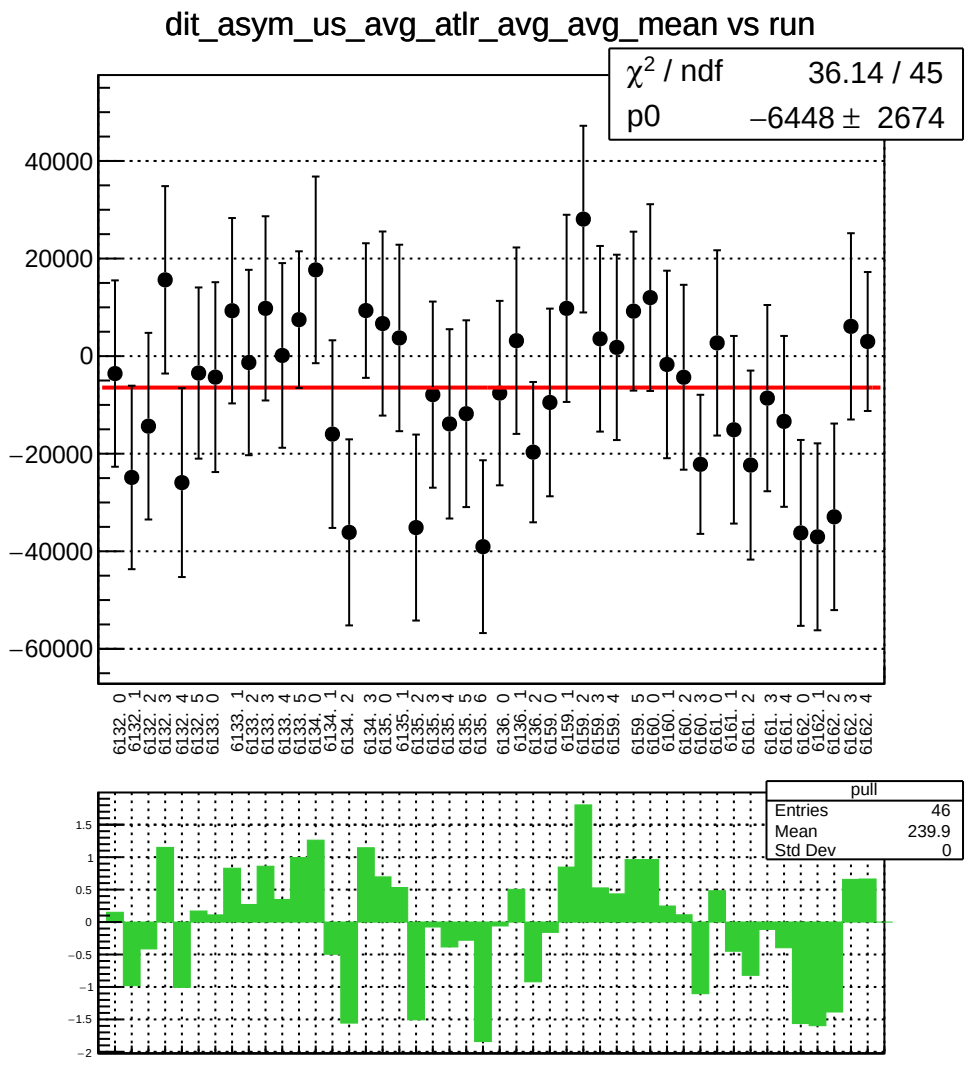
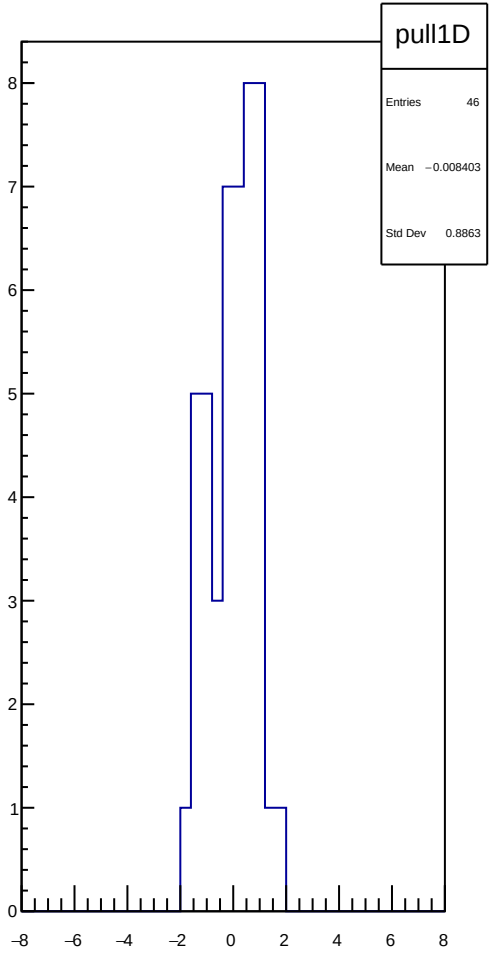
6162. 1
6162. 2
6162. 3
6162. 4

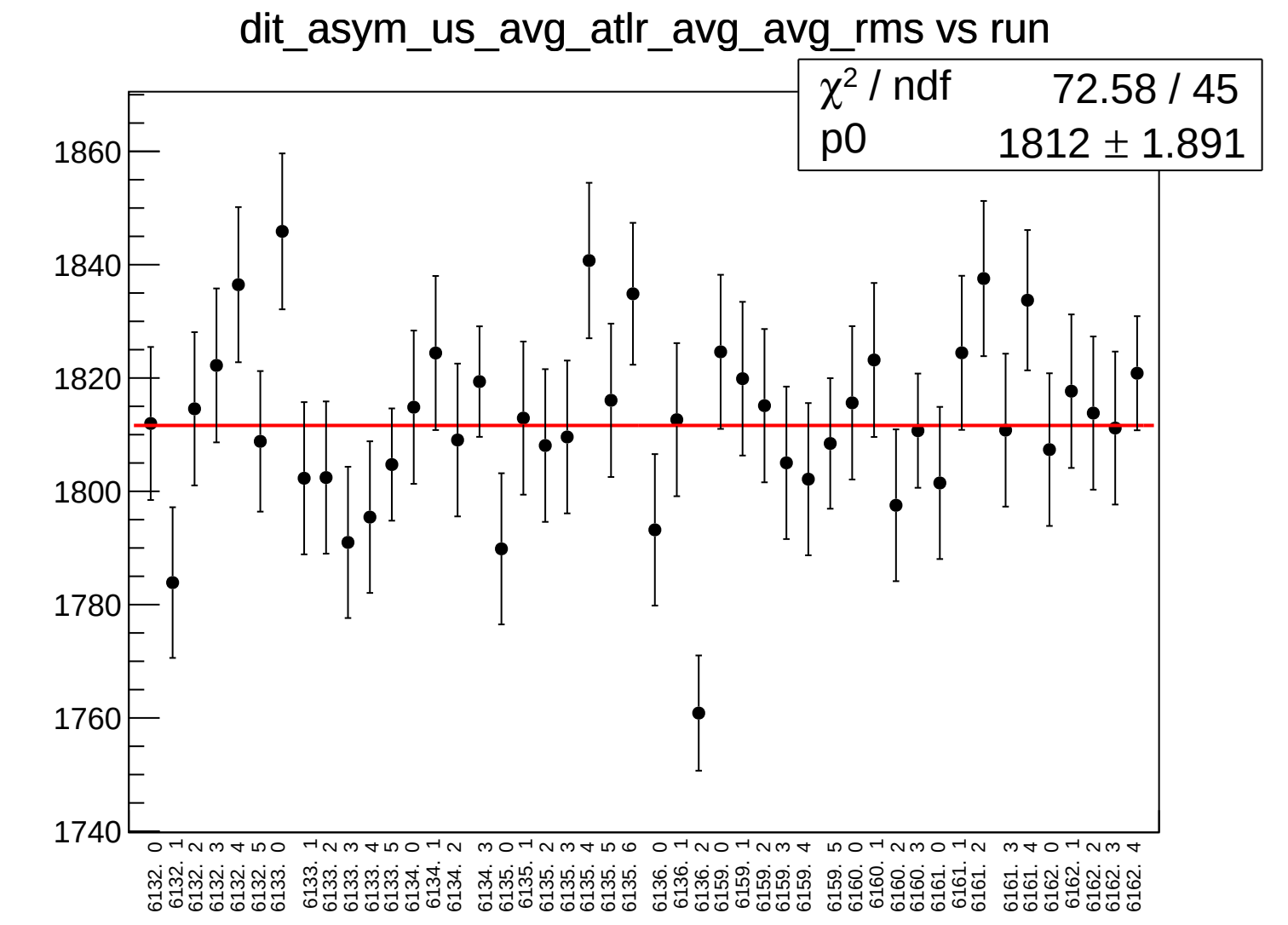

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 49.21 / 45
p0 3427 ± 8254
200
100
0
−100
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 155.3
Std Dev 0
2
1
0
−1
−2

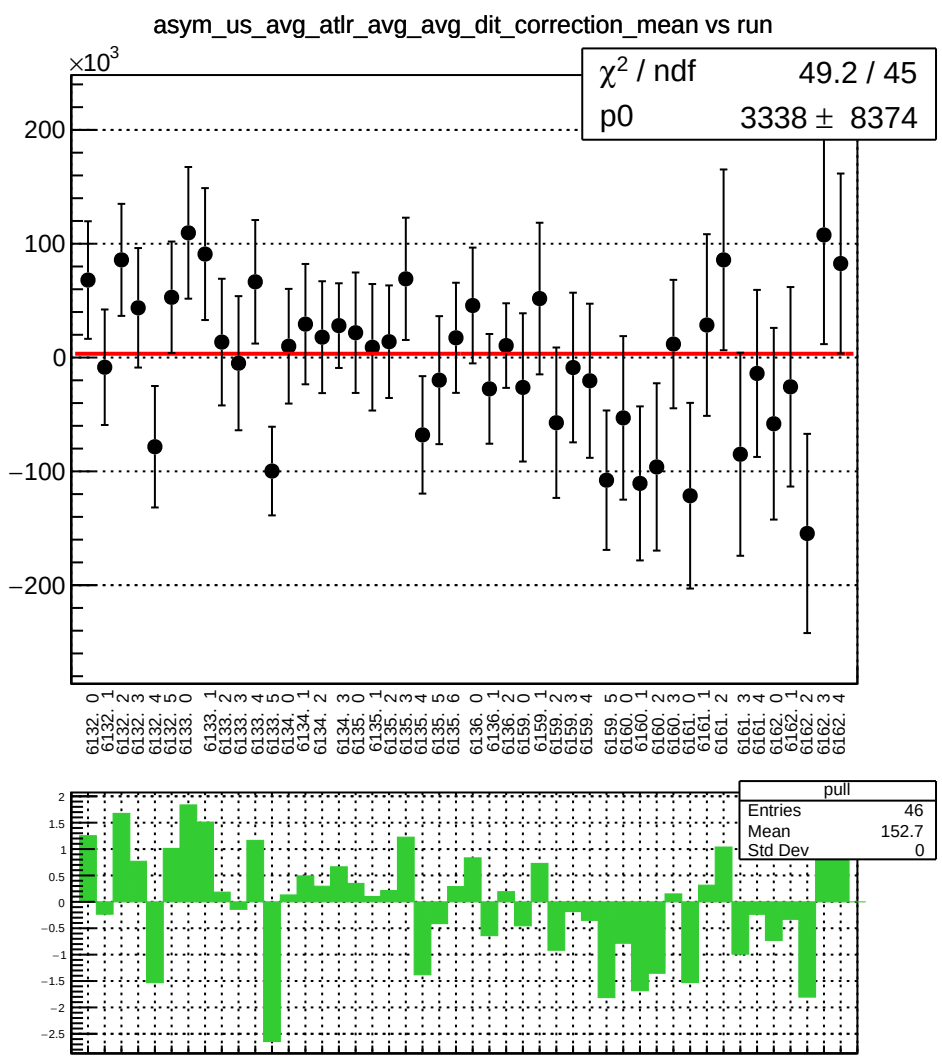

pull1D
Entries 46
Mean −0.03477
Std Dev 1.034
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

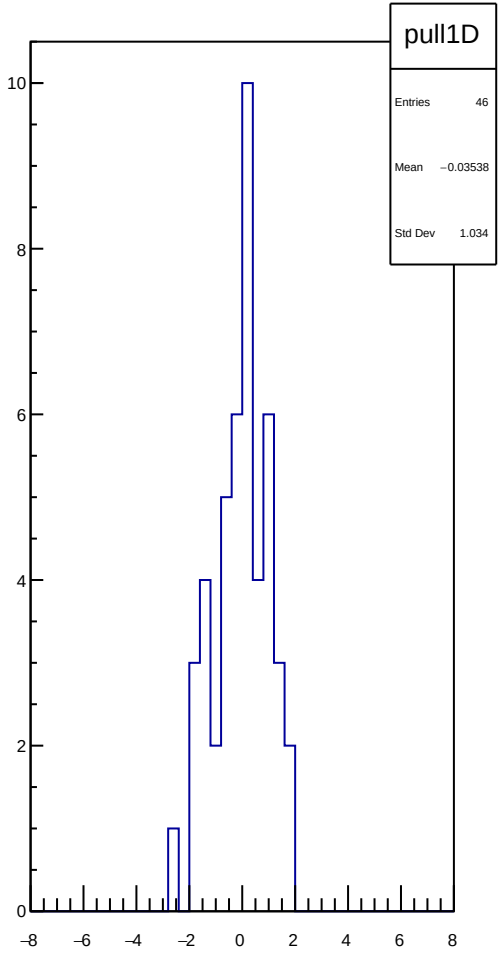

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.875e+04 / 45
p0 5473 ± 5.836
10000
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

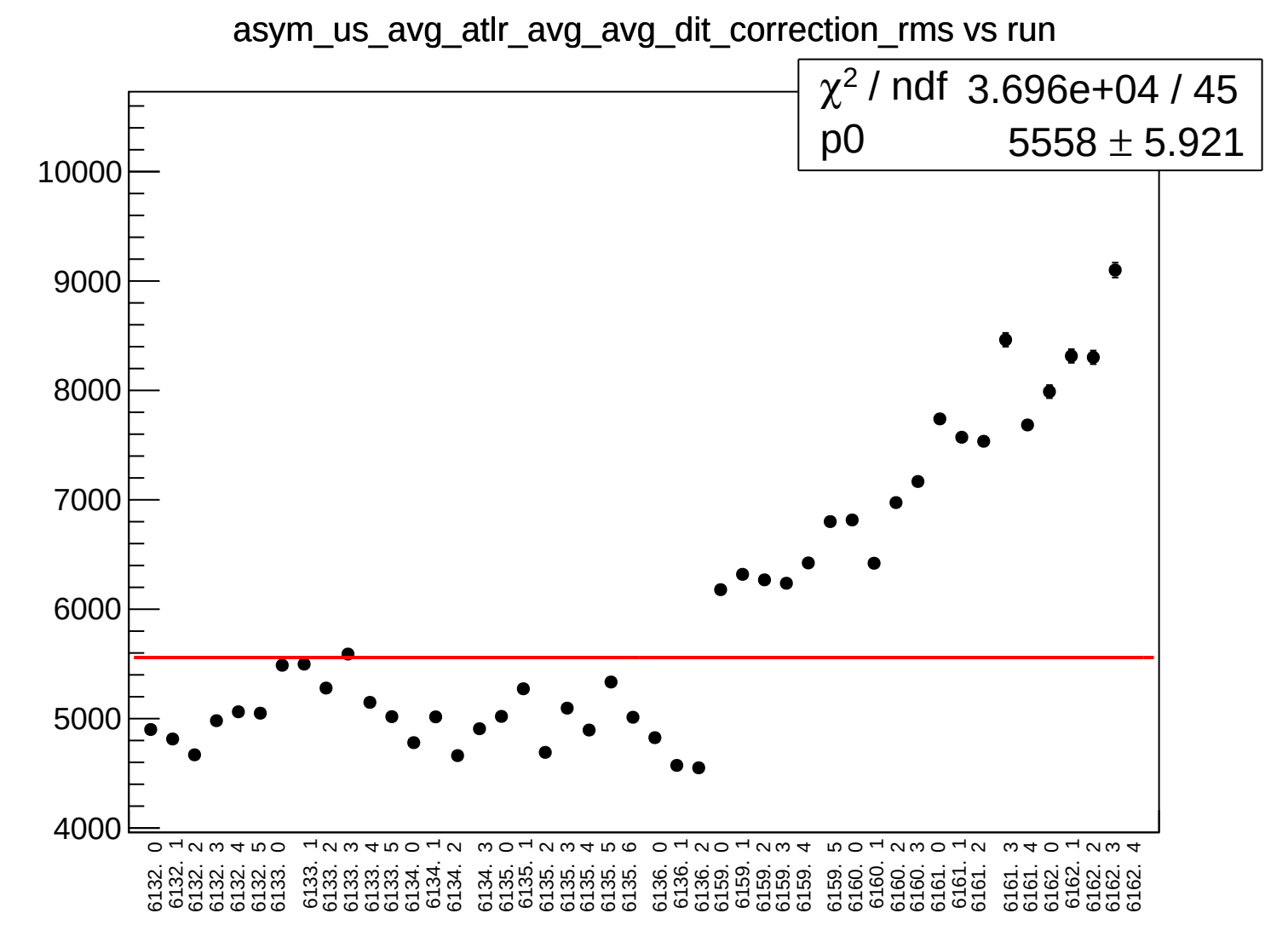

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 36.14 / 45
p0 −6448 ± 2674
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 239.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

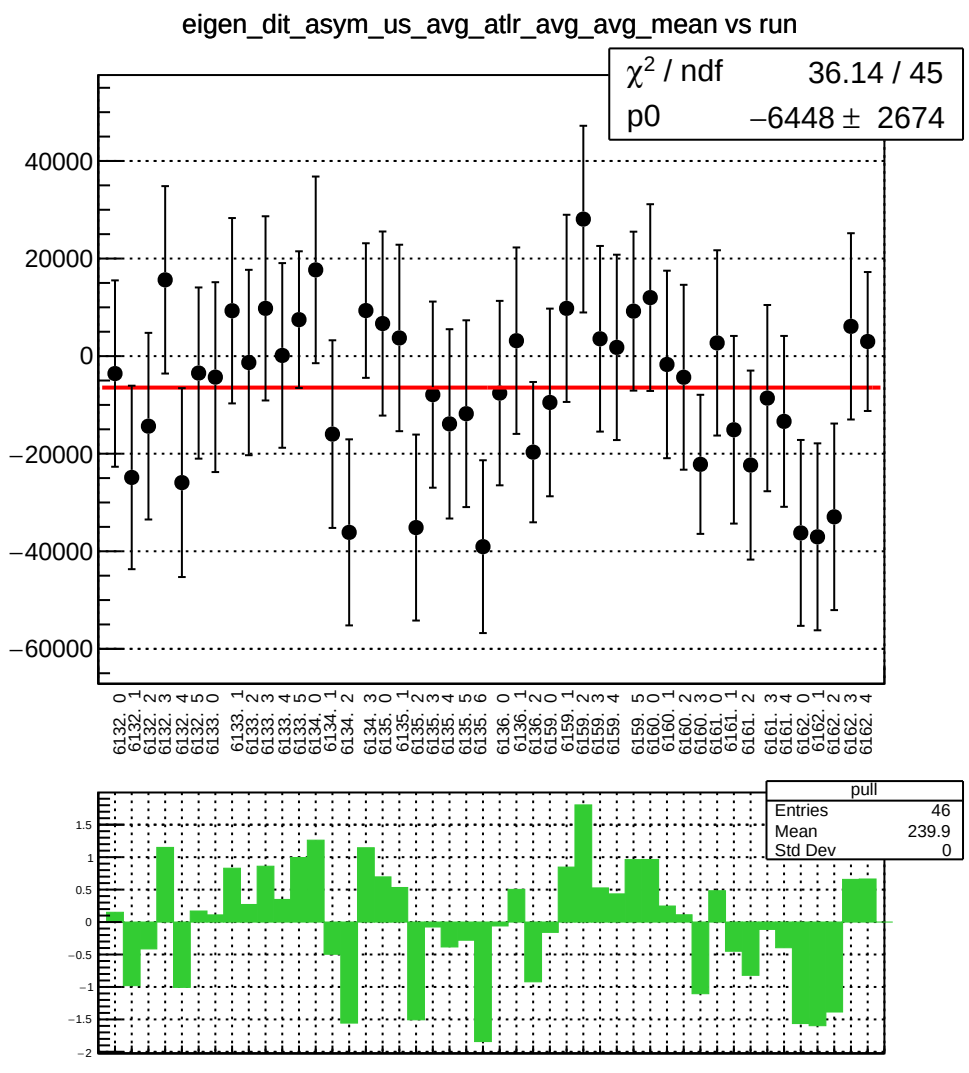

pull1D
Entries 46
Mean −0.008403
Std Dev 0.8863
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

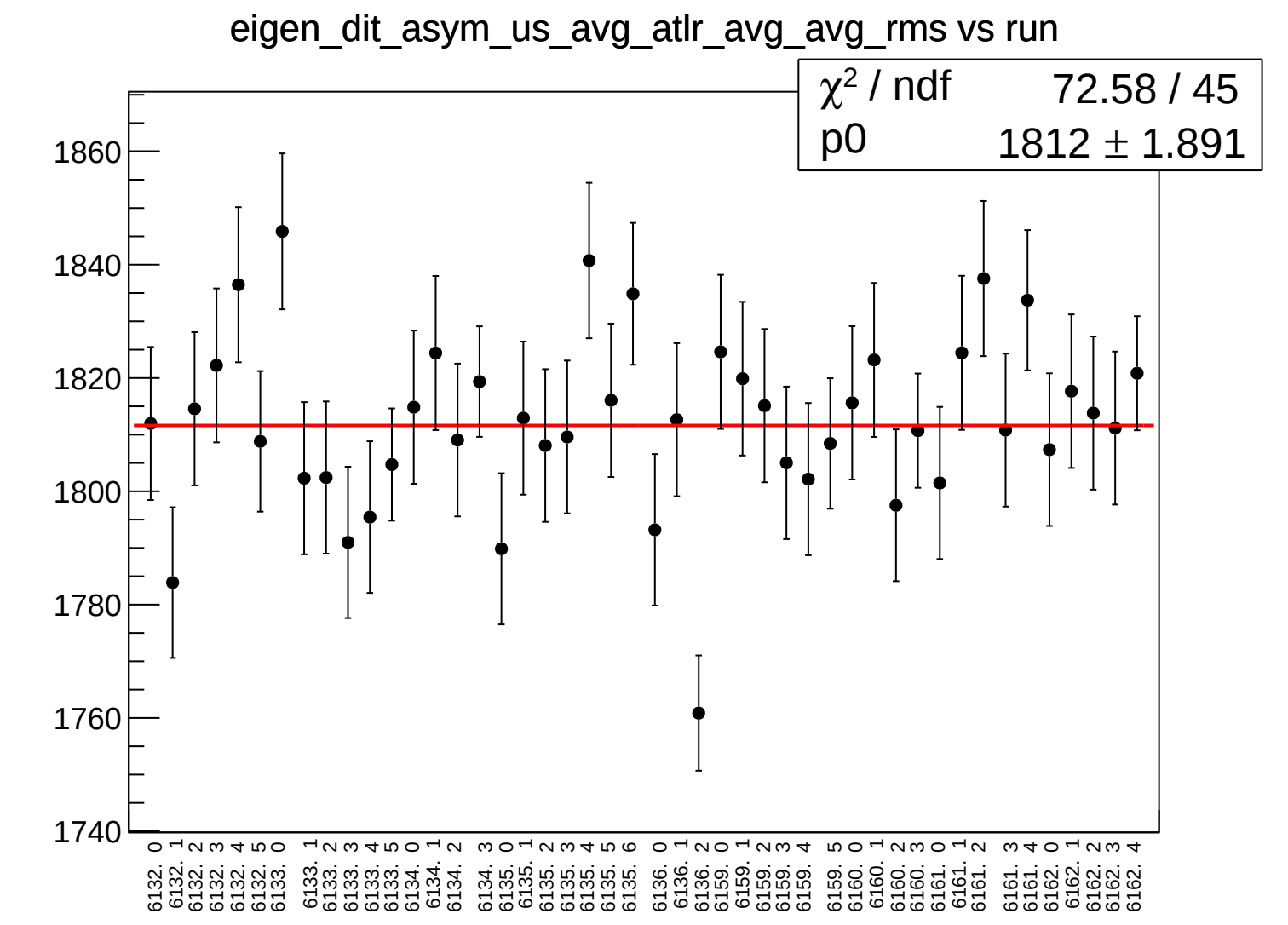

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 72.58 / 45
p0 1812 ± 1.891
1860
1840
1820
1800
1780
1760
1740
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

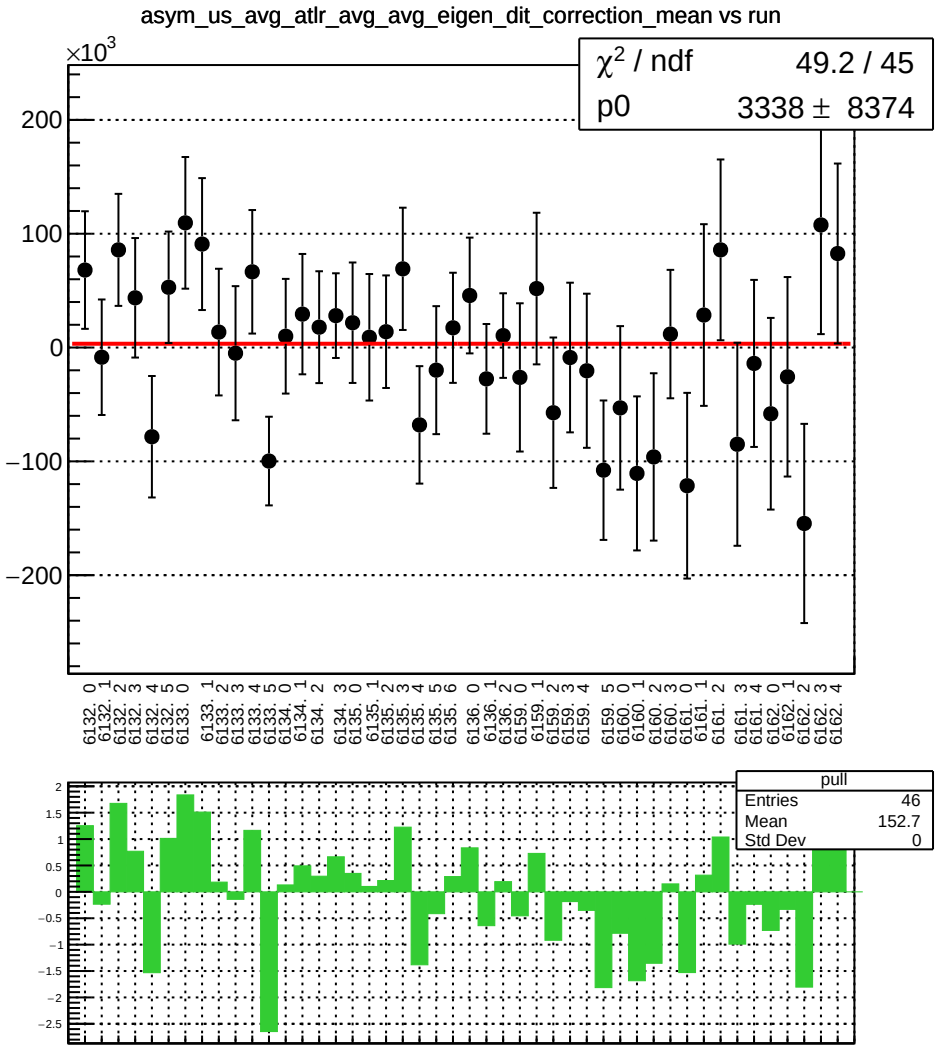

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 49.2 / 45
p0 3338 ± 8374
200
100
0
−100
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 152.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

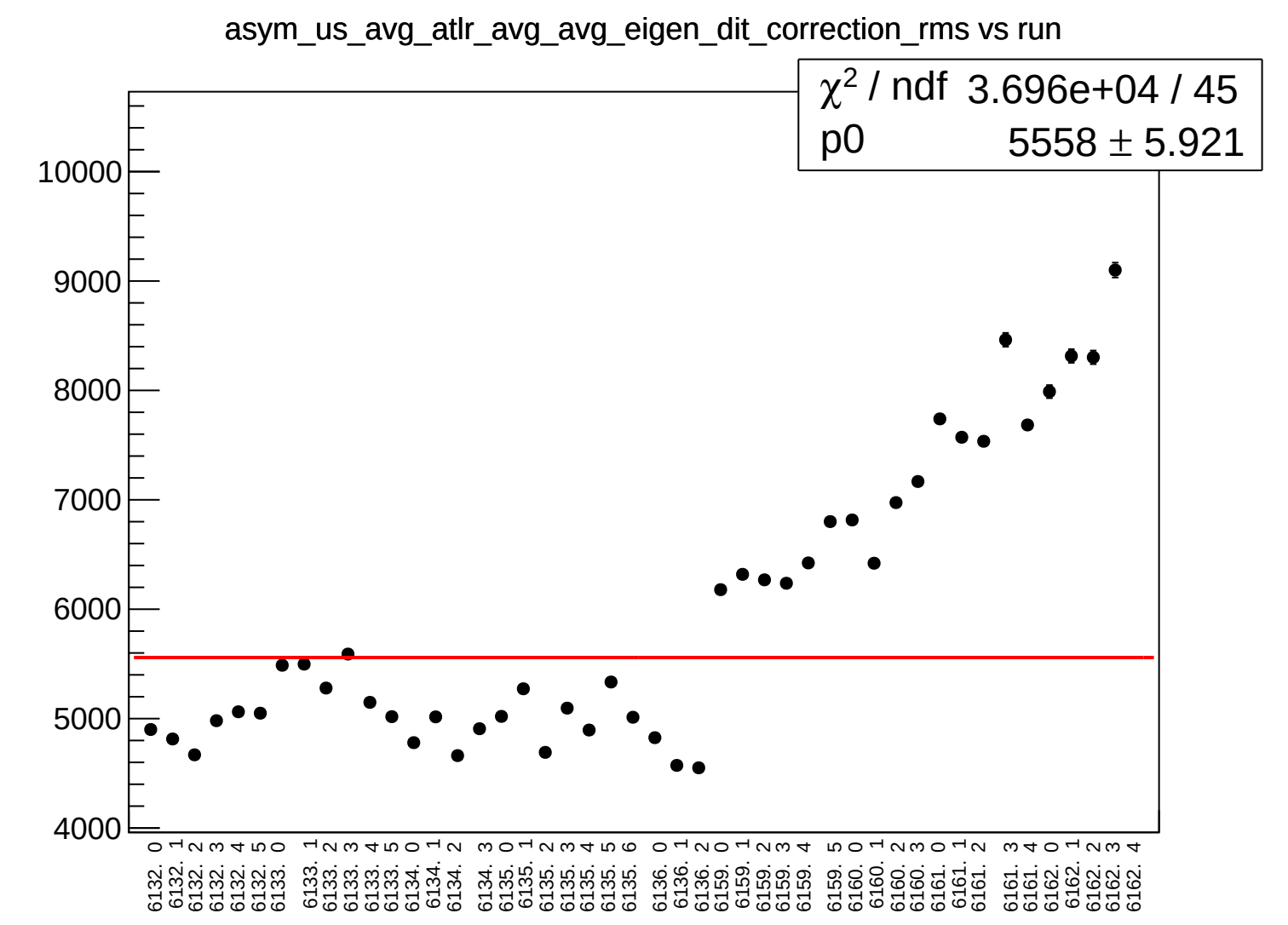

pull1D
Entries 46
Mean −0.03538
Std Dev 1.034
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

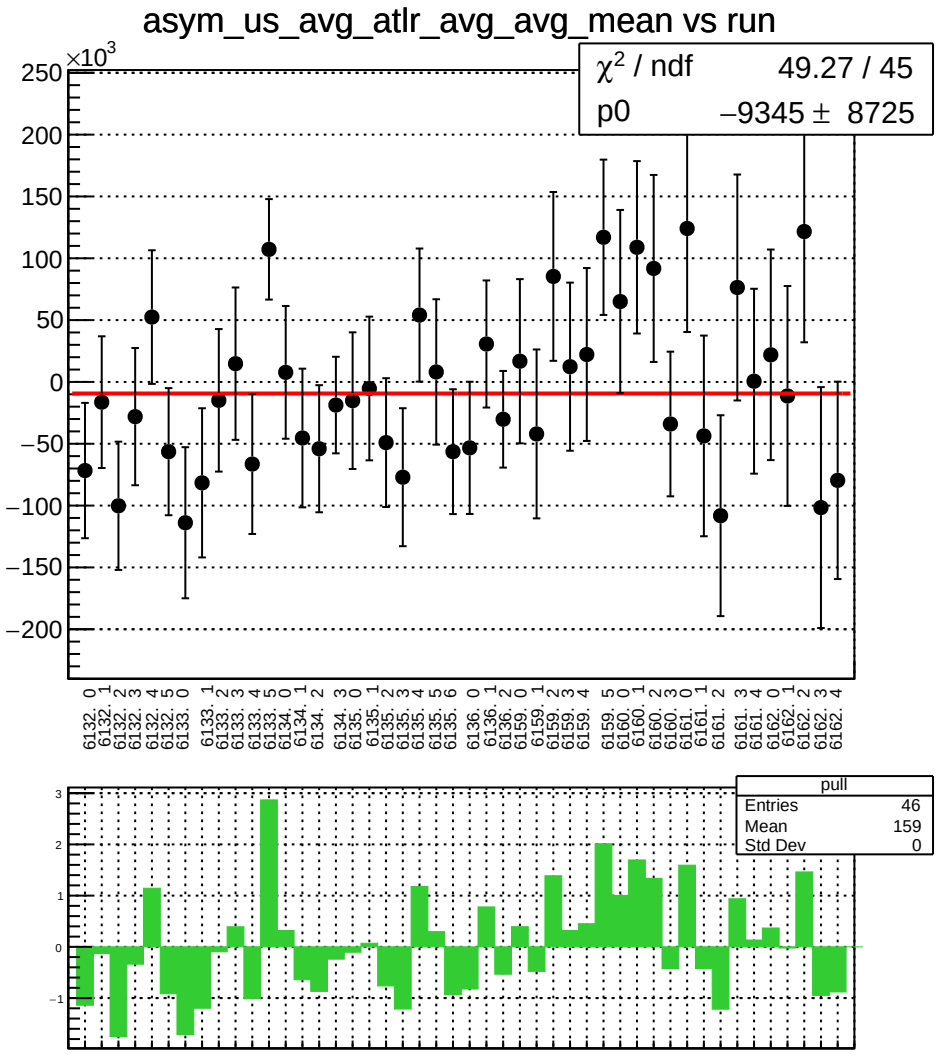

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 3.696e+04 / 45
p0 5558 ± 5.921
10000
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

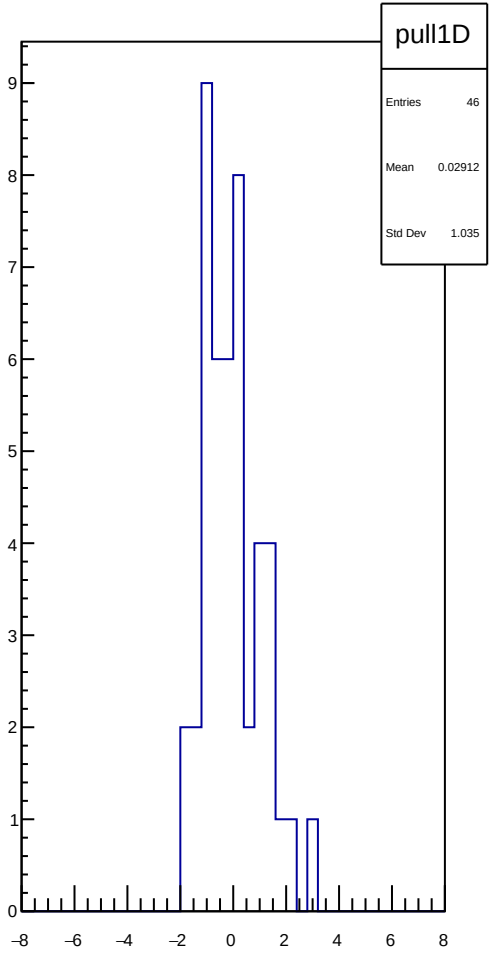

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 36.14 / 45
p0 −6448 ± 2674
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 239.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.008403
Std Dev 0.8863
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

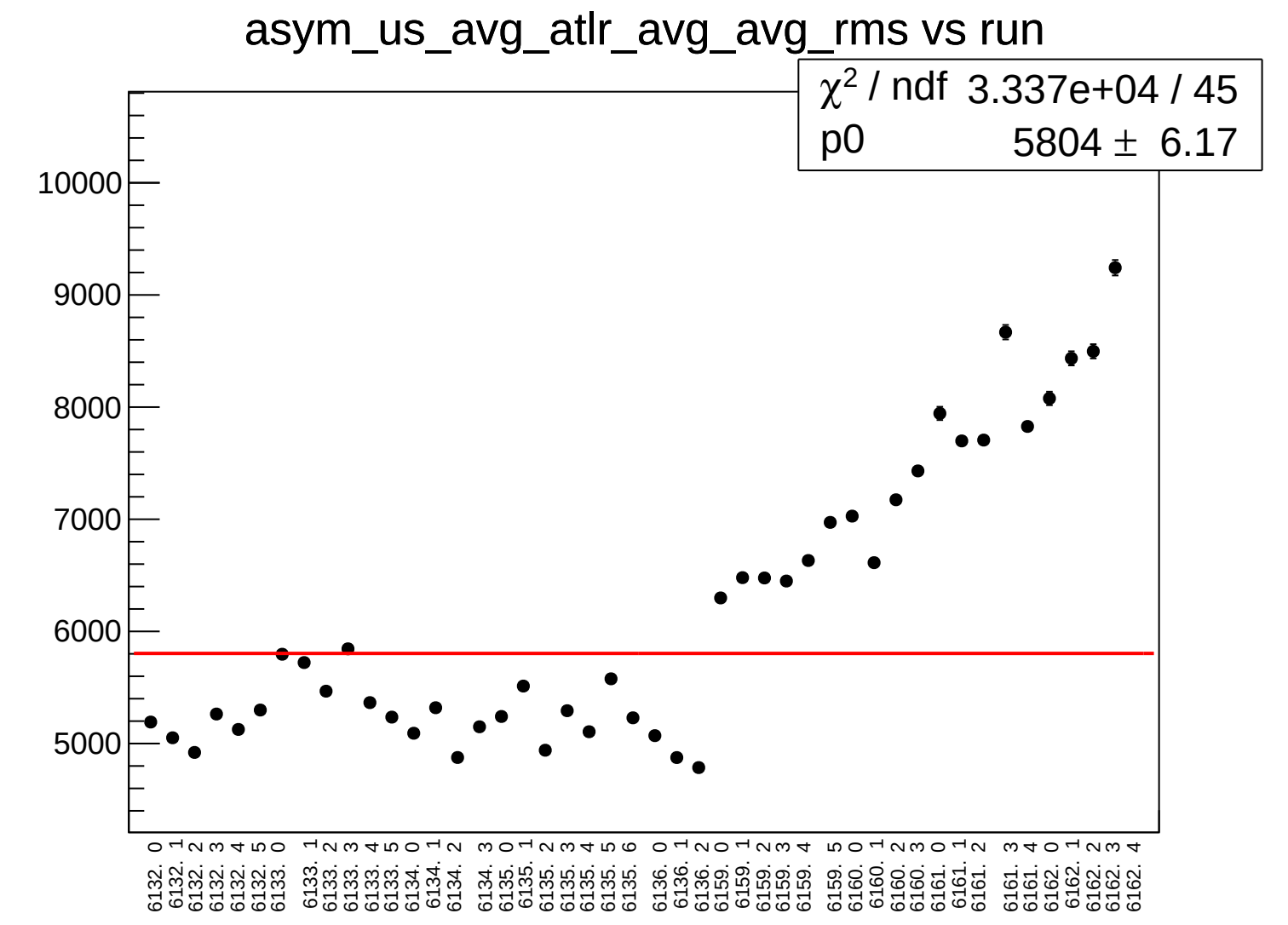

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 72.58 / 45
p0 1812 ± 1.891
1860
1840
1820
1800
1780
1760
1740
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

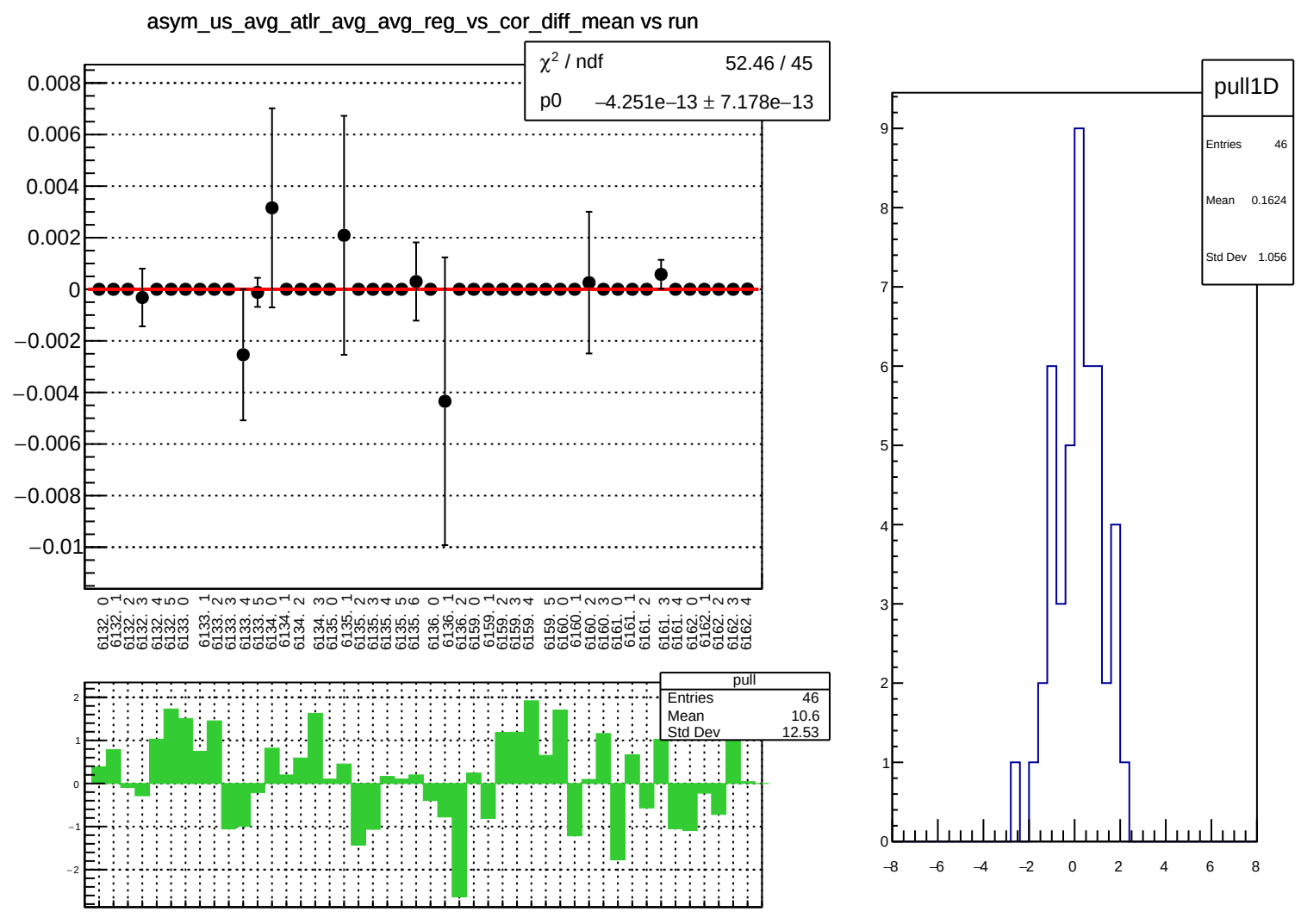

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 49.2 / 45
p0 3338 ± 8374
200
100
0
−100
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 152.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.03538
Std Dev 1.034
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

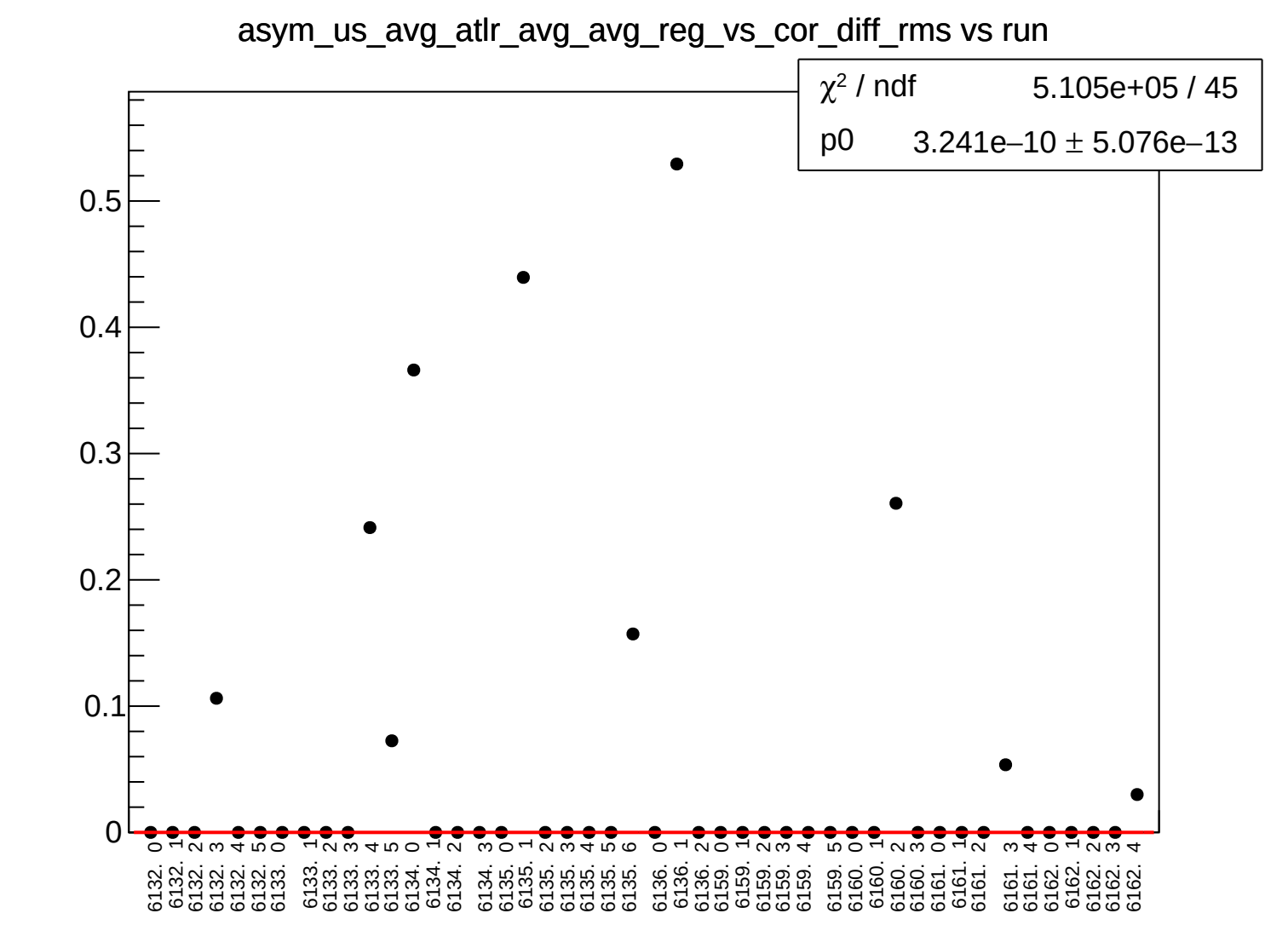

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.696e+04 / 45
p0 5558 ± 5.921
10000
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

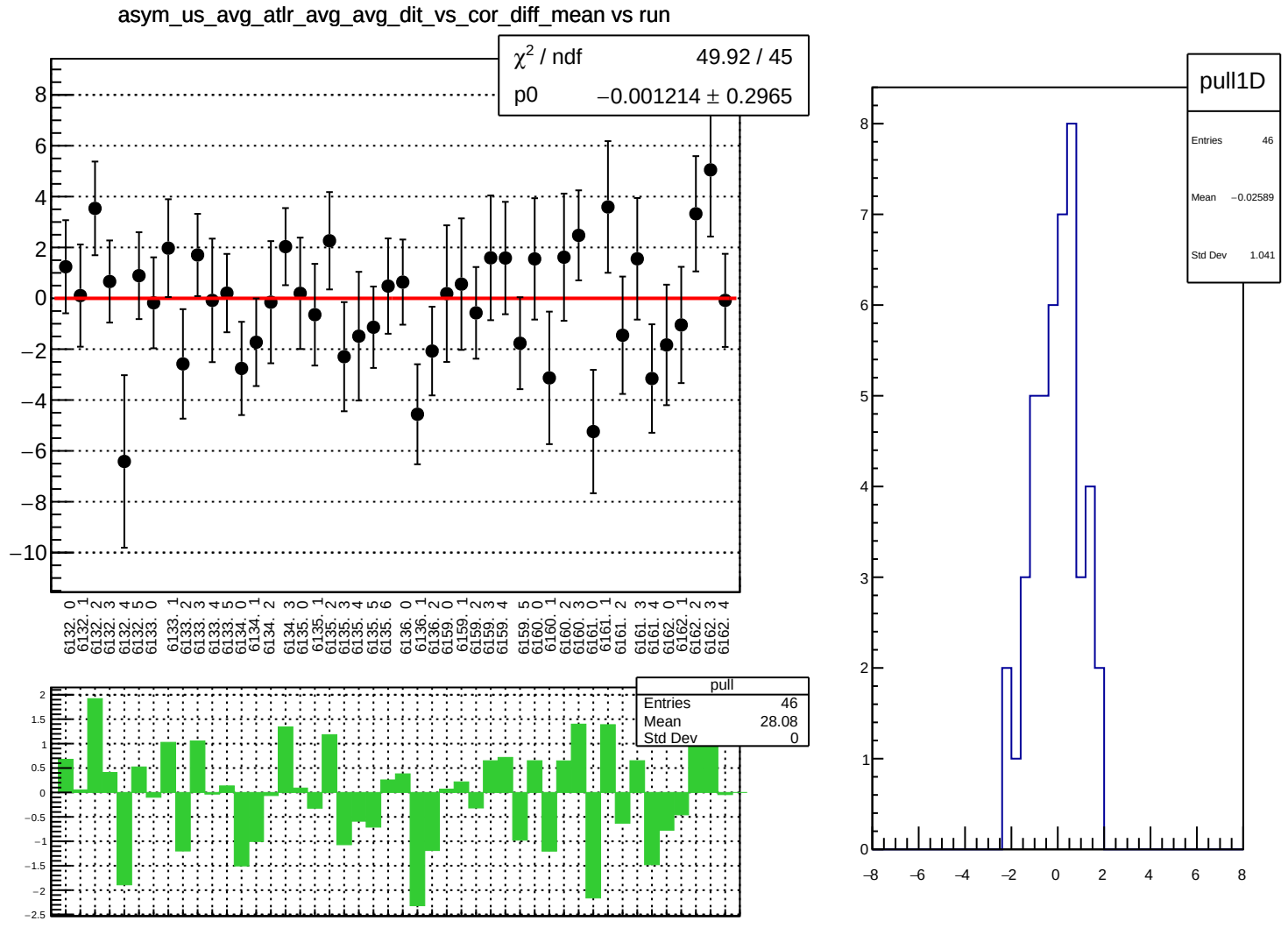

asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 49.27 / 45
p0 −9345 ± 8725
×10³
pull
Entries 46
Mean 159
Std Dev 0

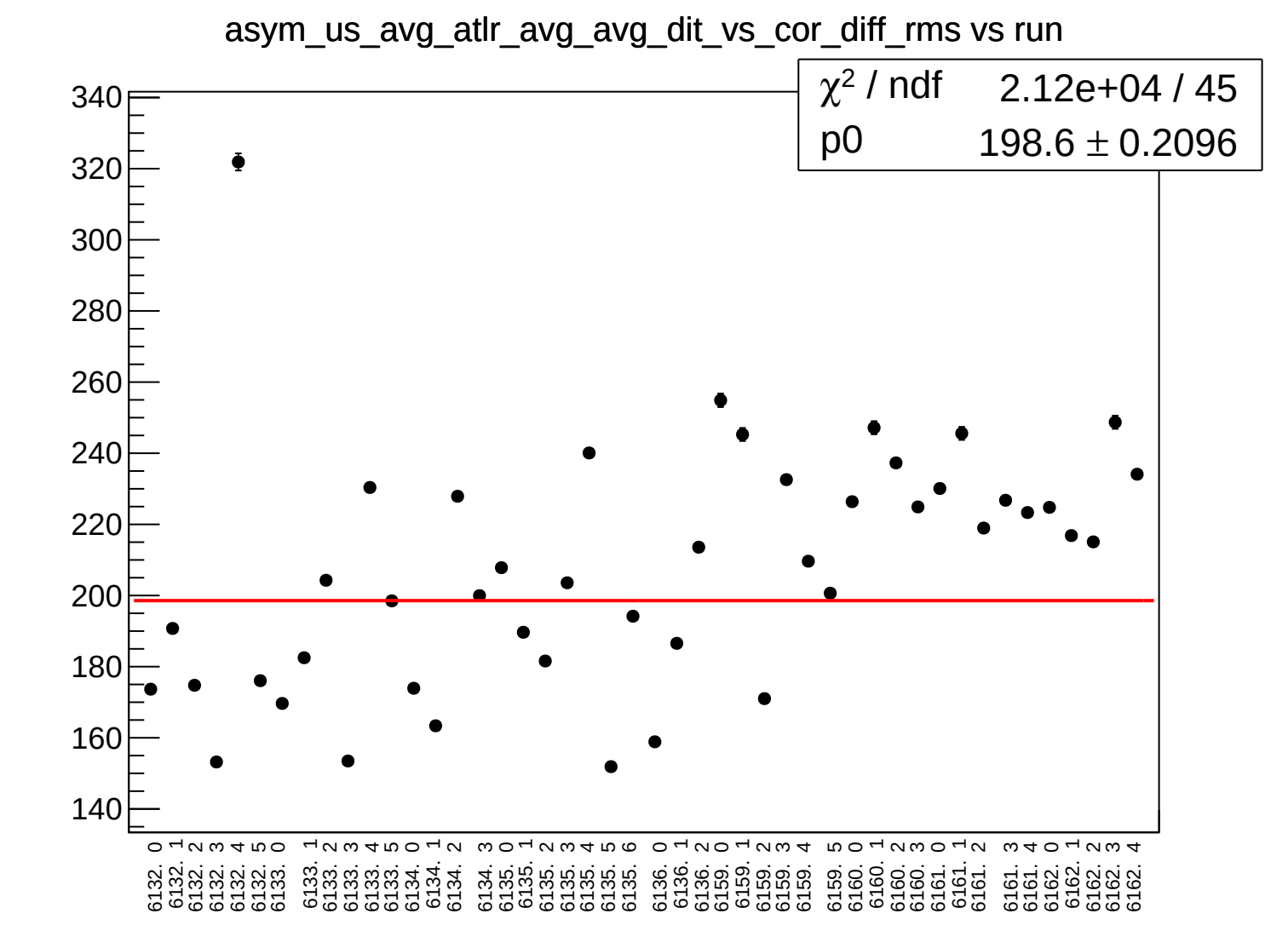

pull1D
Entries 46
Mean 0.02912
Std Dev 1.035

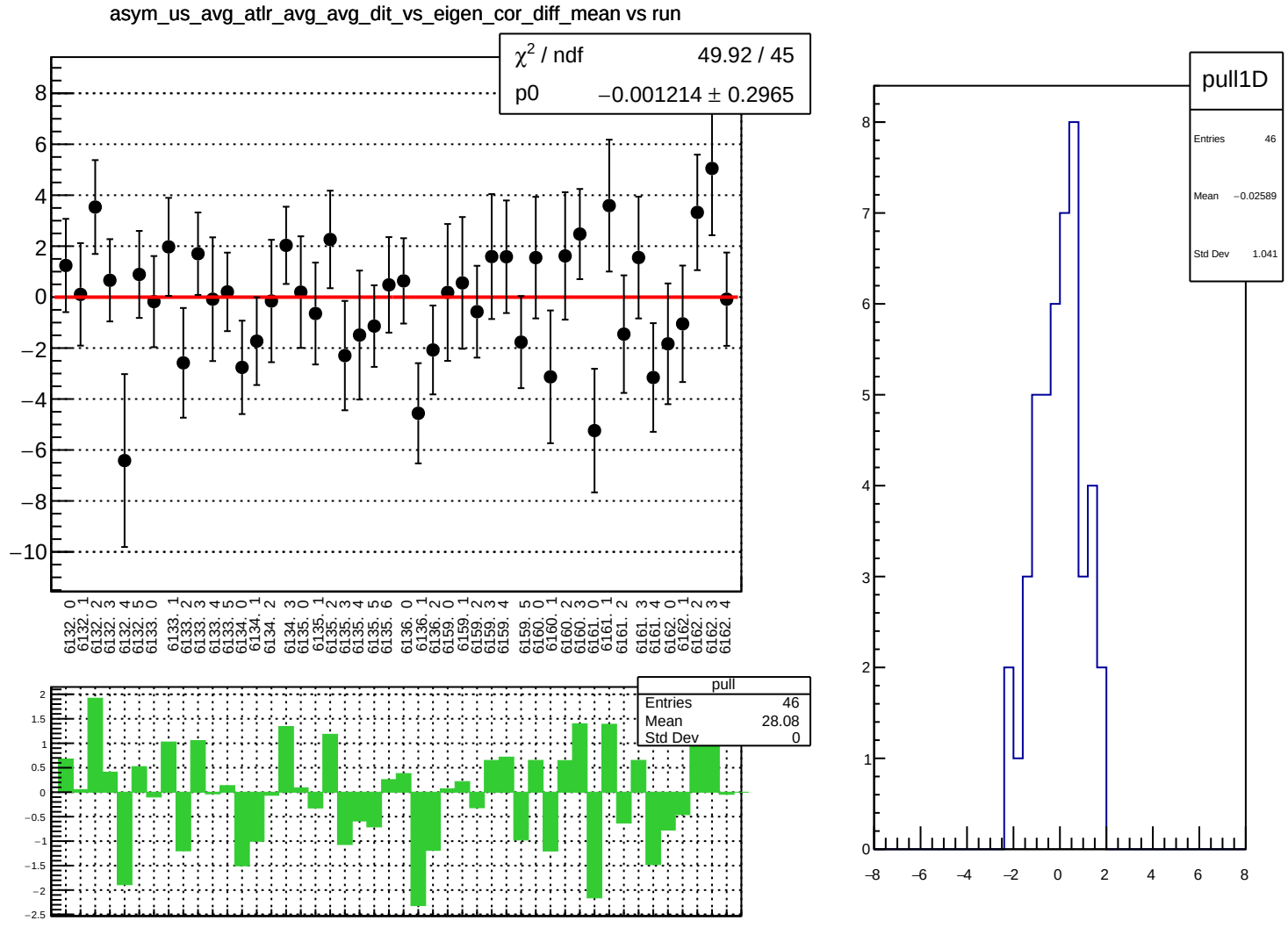

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 3.337e+04 / 45
p0 5804 ± 6.17
10000
9000
8000
7000
6000
5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

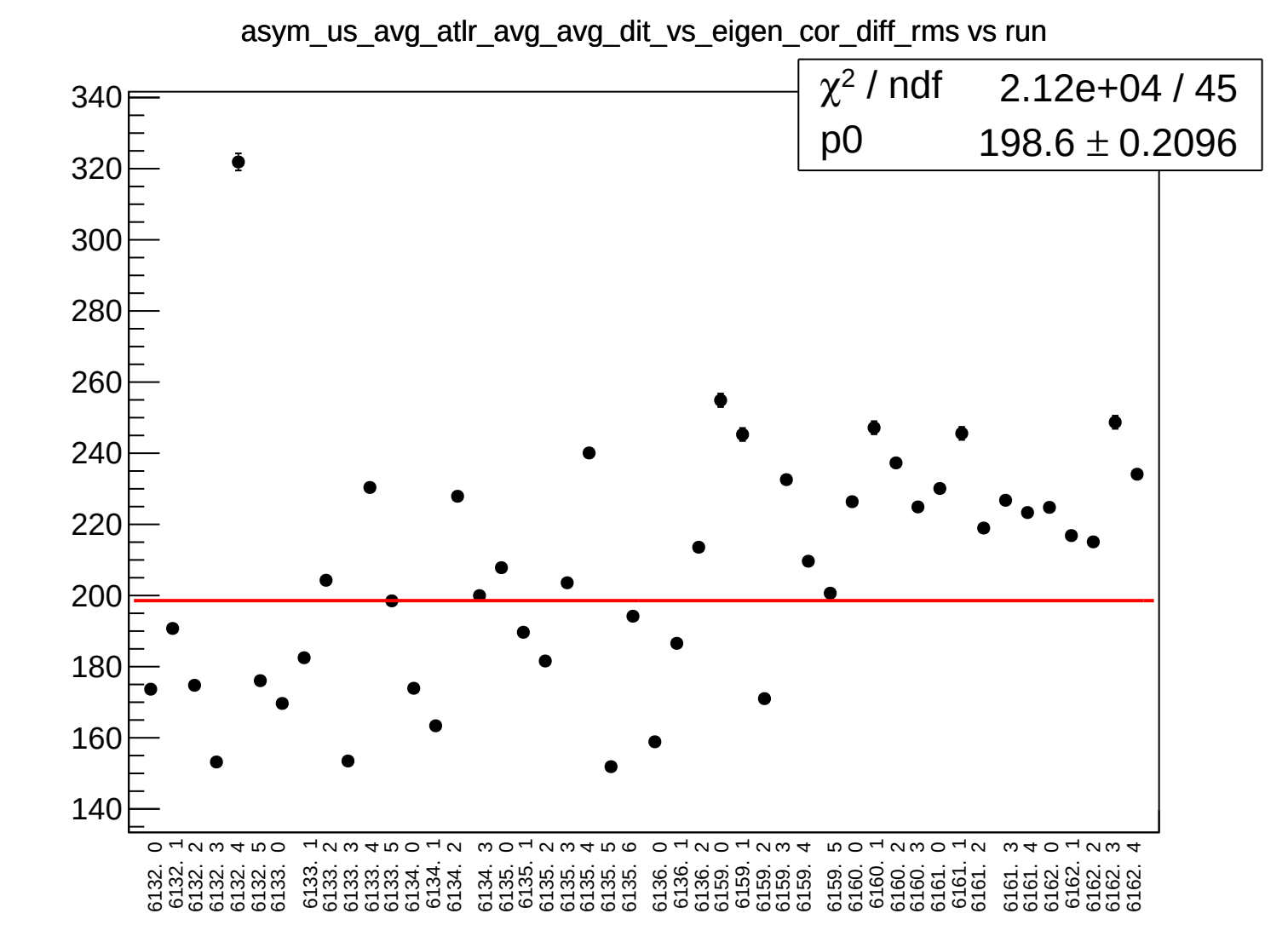

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 52.46 / 45
p0 −4.251e−13 ± 7.178e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 10.6
Std Dev 12.53
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.1624
Std Dev 1.056
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

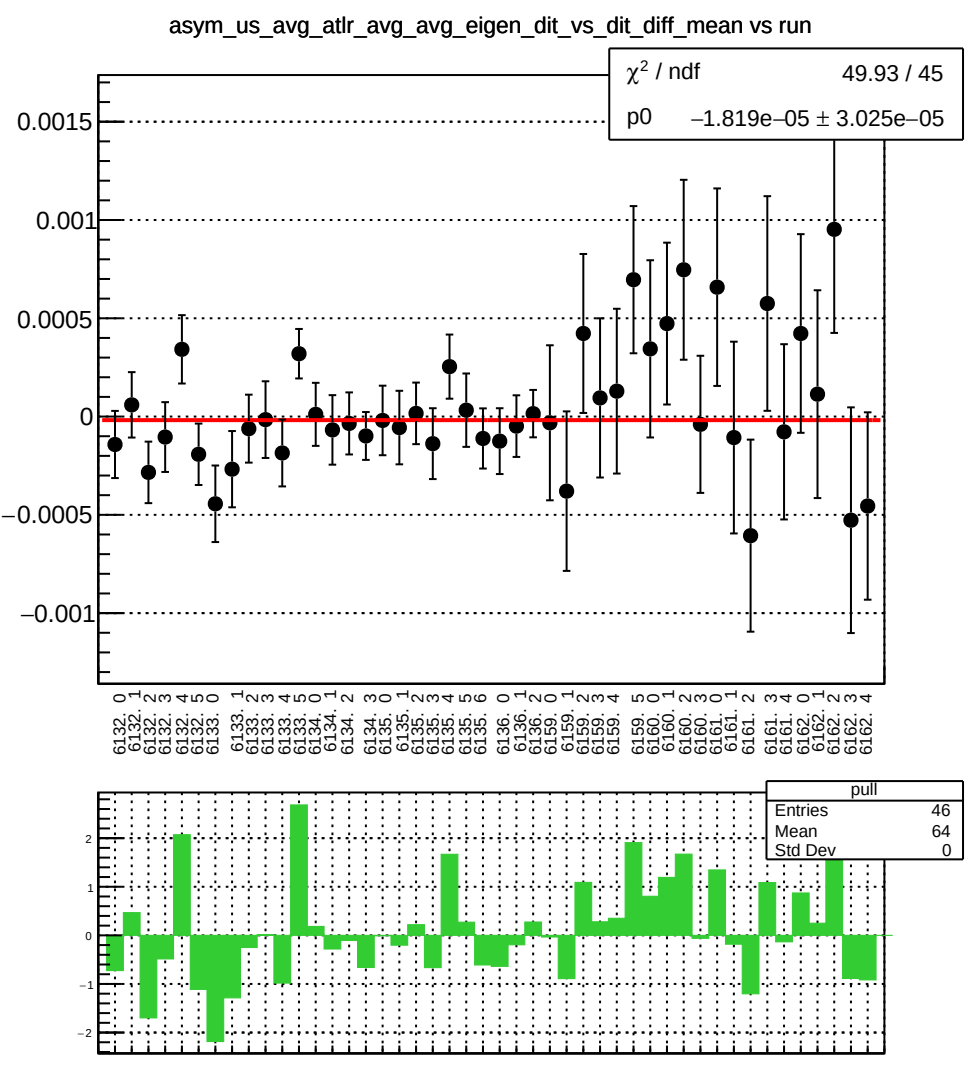

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.105e+05 / 45
p0 3.241e−10 ± 5.076e−13
0.5
0.4
0.3
0.2
0.1
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

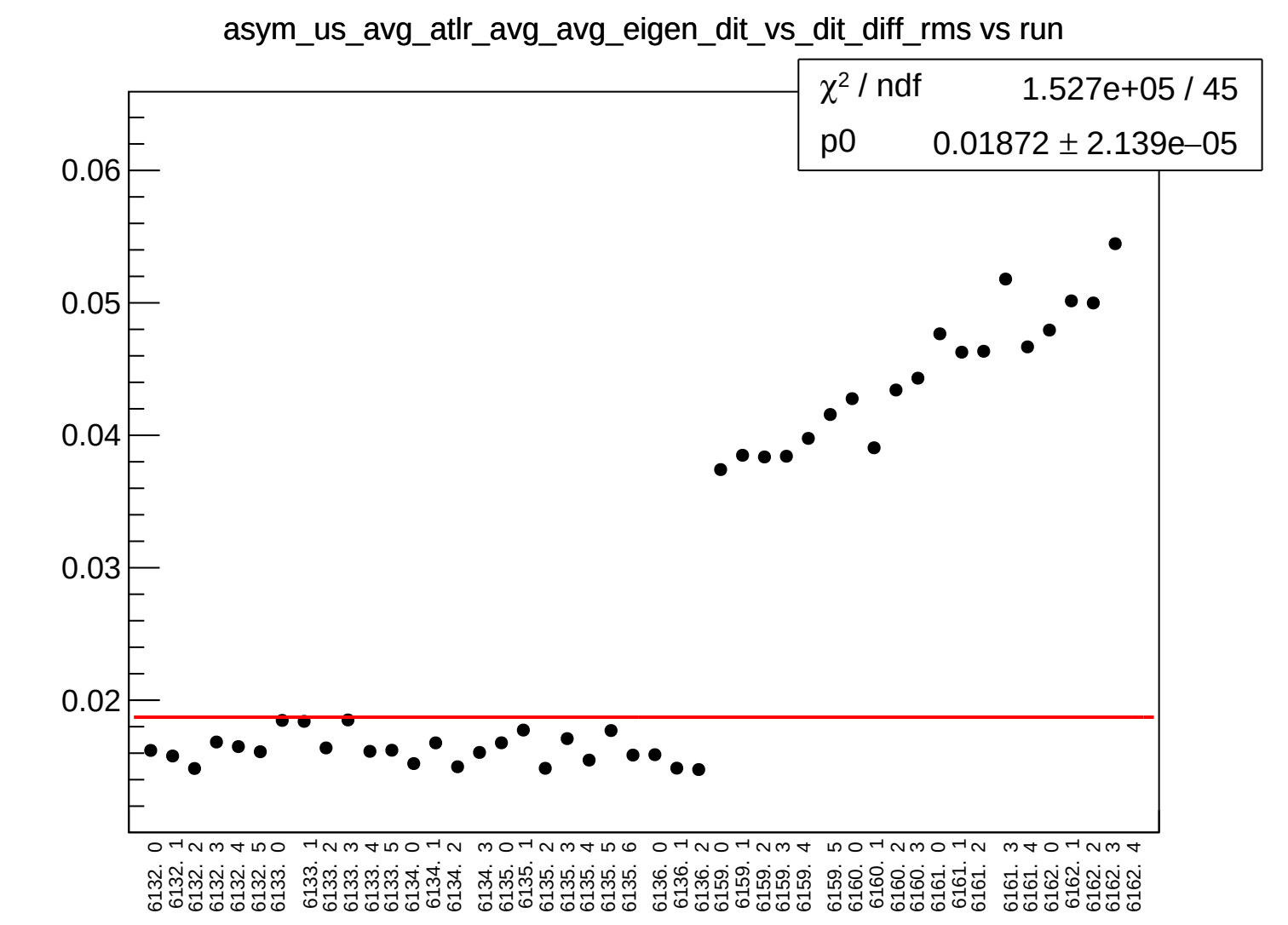

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 49.92 / 45
p0 −0.001214 ± 0.2965
pull
Entries 46
Mean 28.08
Std Dev 0
pull1D
Entries 46
Mean −0.02589
Std Dev 1.041

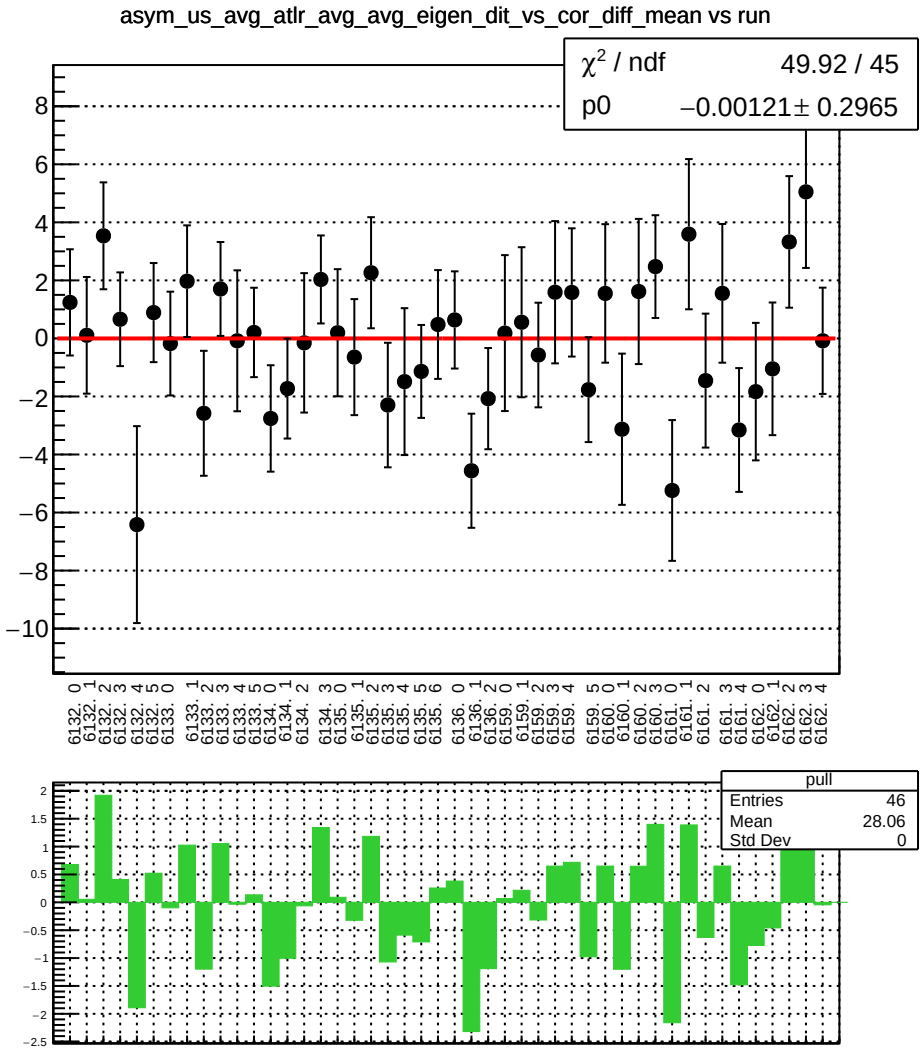

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.12e+04 / 45
p0 198.6 ± 0.2096
340
320
300
280
260
240
220
200
180
160
140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

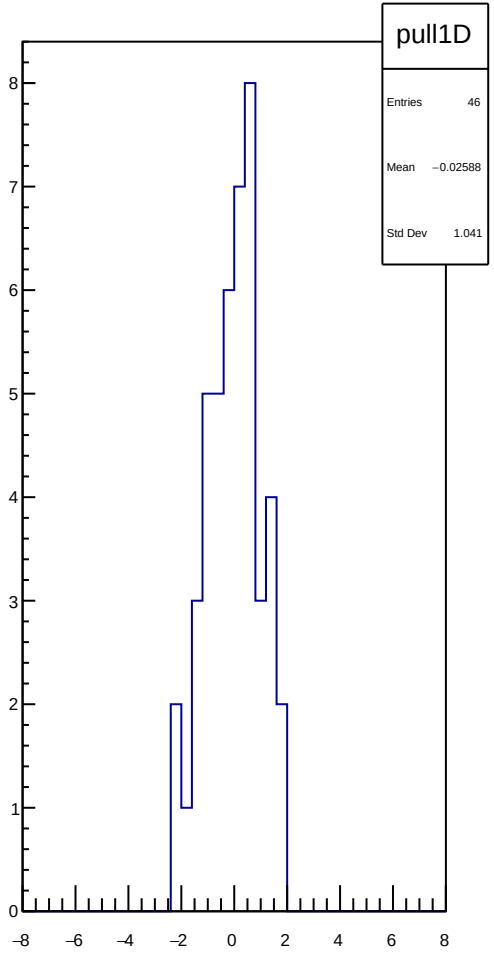

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.92 / 45
p0 −0.001214 ± 0.2965
pull
Entries 46
Mean 28.08
Std Dev 0
pull1D
Entries 46
Mean −0.02589
Std Dev 1.041

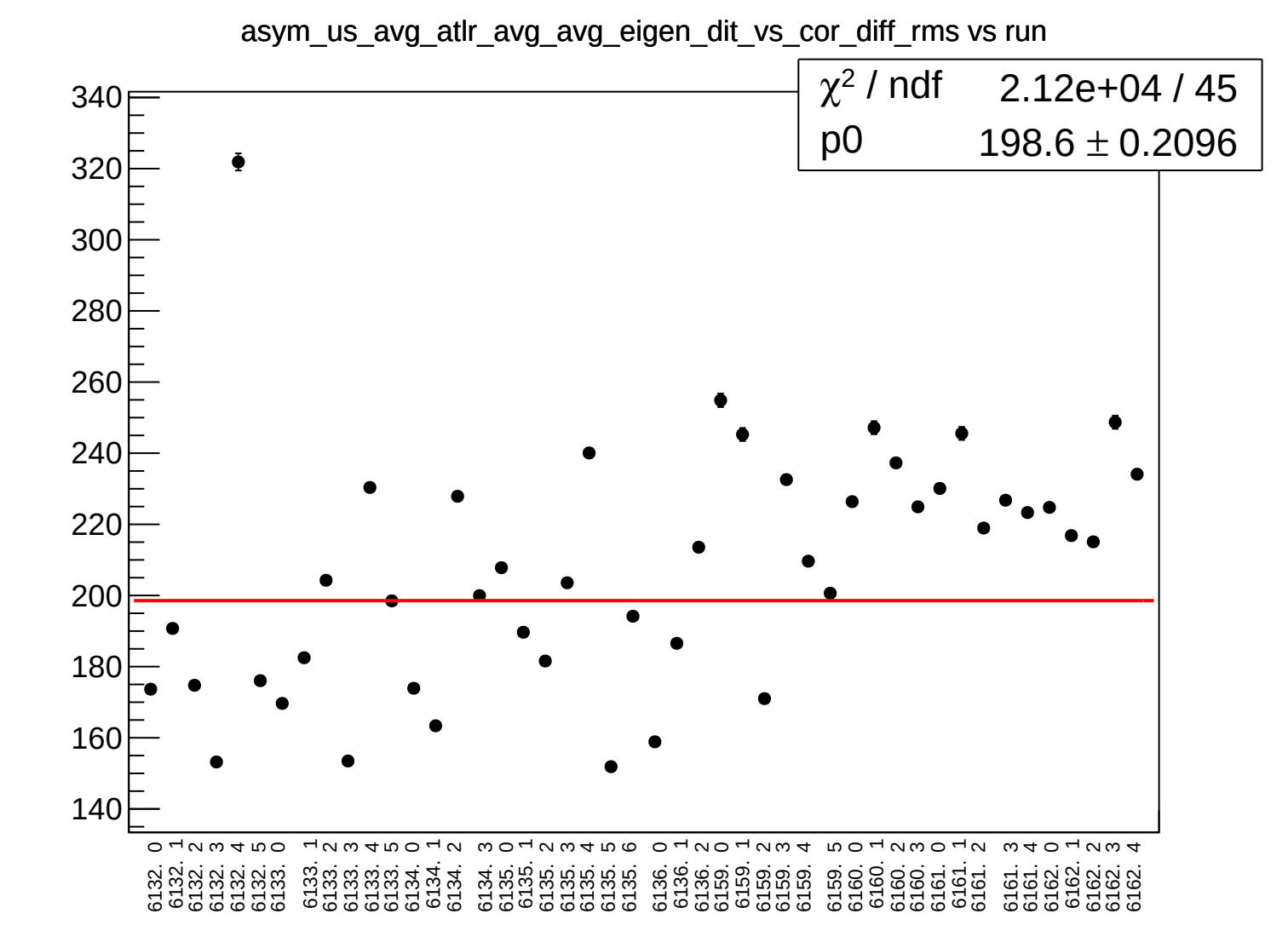

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.12e+04 / 45
p0 198.6 ± 0.2096
340
320
300
280
260
240
220
200
180
160
140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

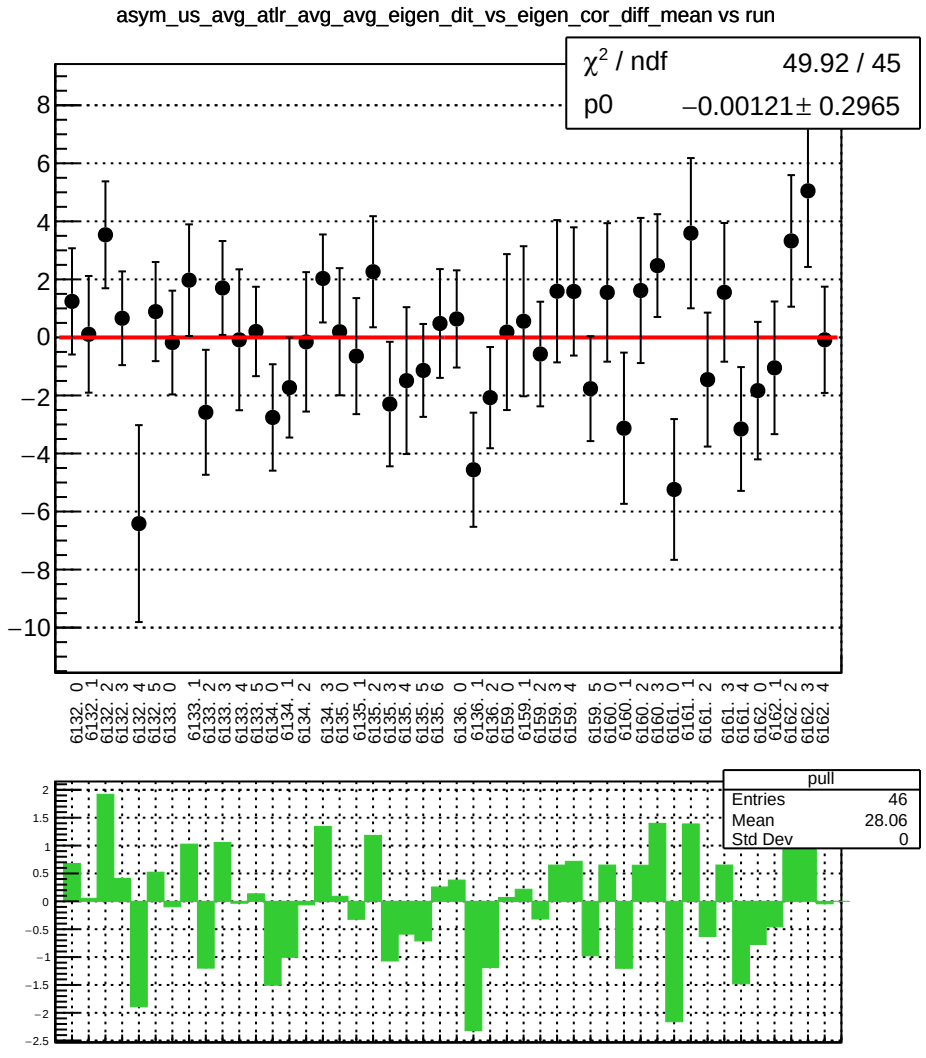

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 49.93 / 45
p0 −1.819e−05 ± 3.025e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 64
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.09025
Std Dev 1.038
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

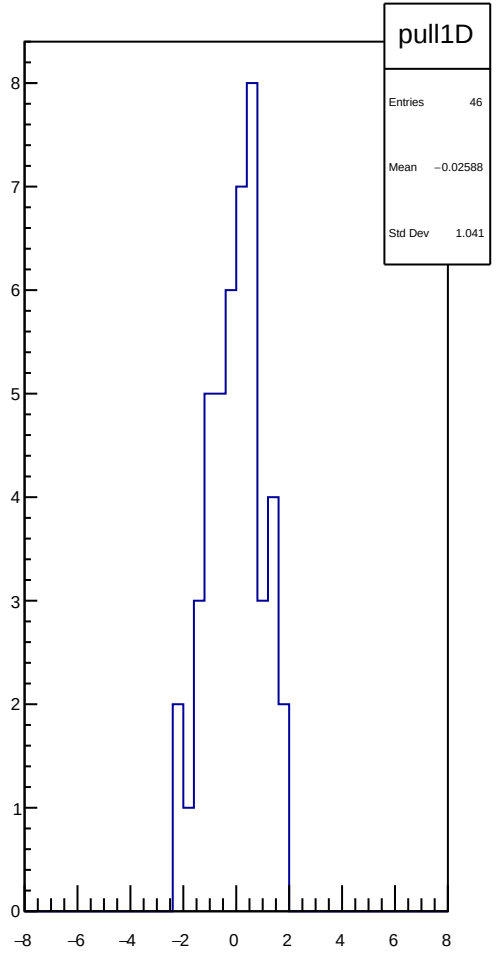

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.527e+05 / 45
p0 0.01872 ± 2.139e−05
0.06
0.05
0.04
0.03
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

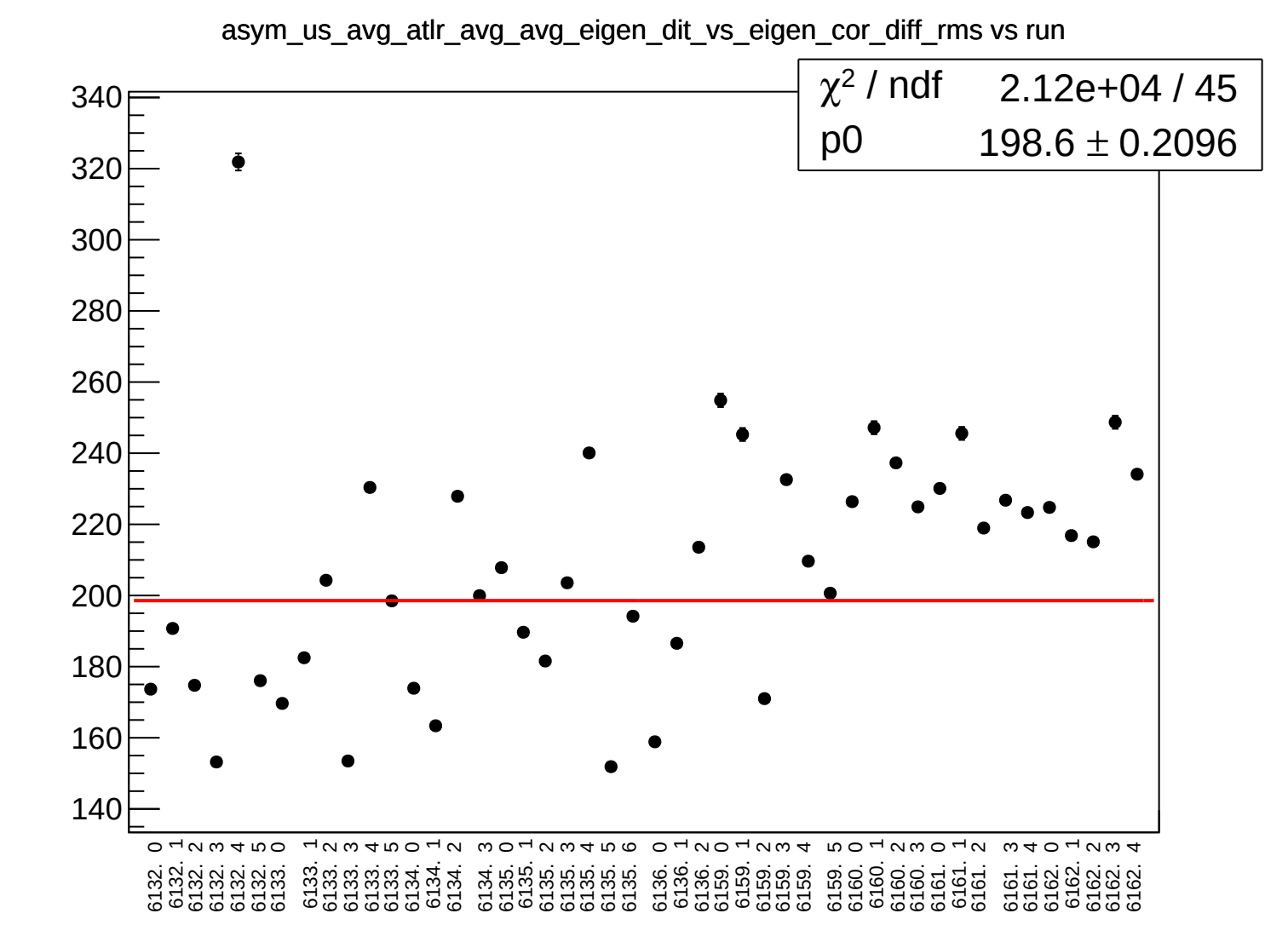

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 49.92 / 45
p0 −0.00121 ± 0.2965
pull
Entries 46
Mean 28.06
Std Dev 0

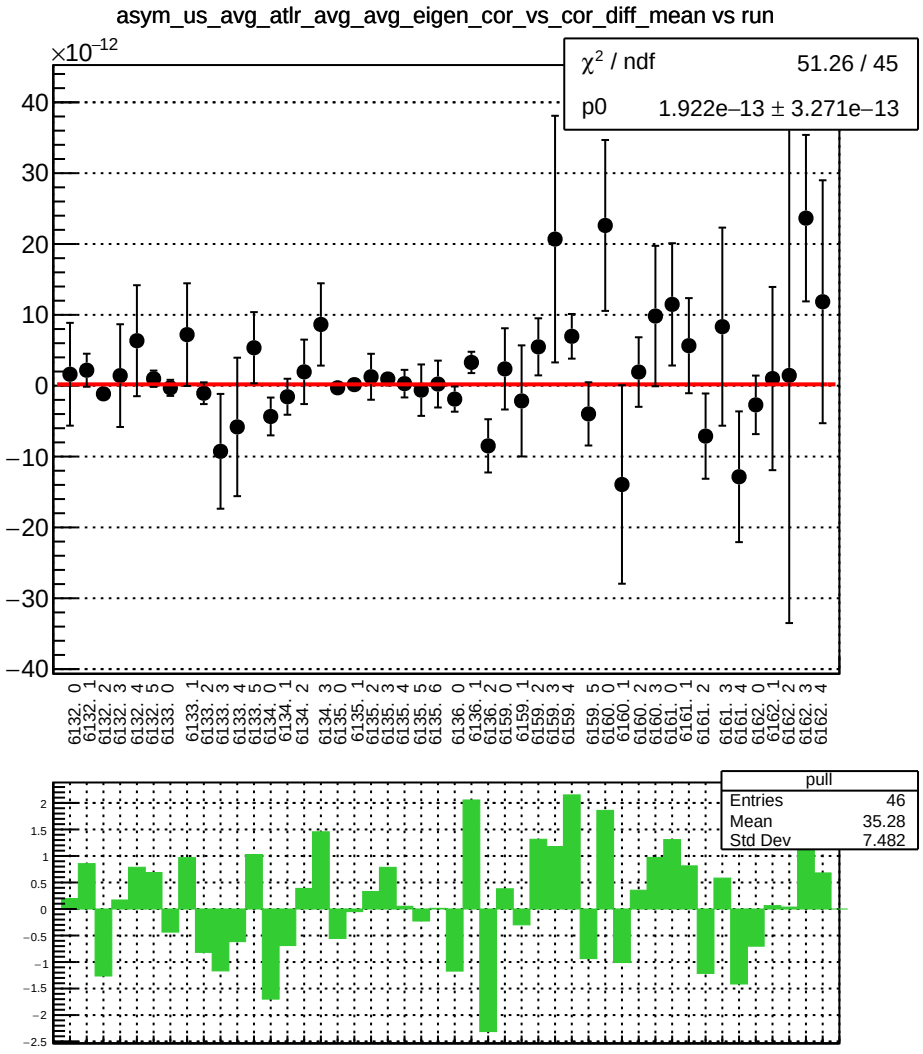

pull1D
Entries 46
Mean −0.02588
Std Dev 1.041

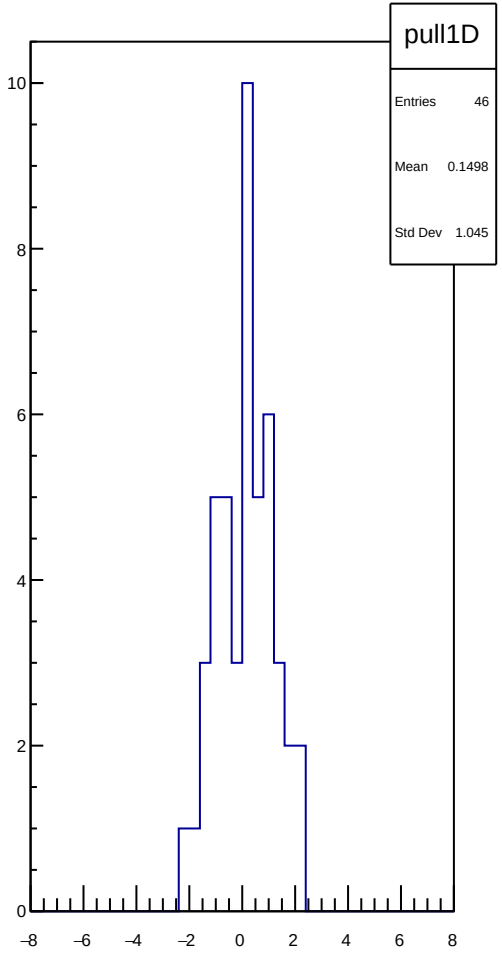

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.12e+04 / 45
p0 198.6 ± 0.2096
340
320
300
280
260
240
220
200
180
160
140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

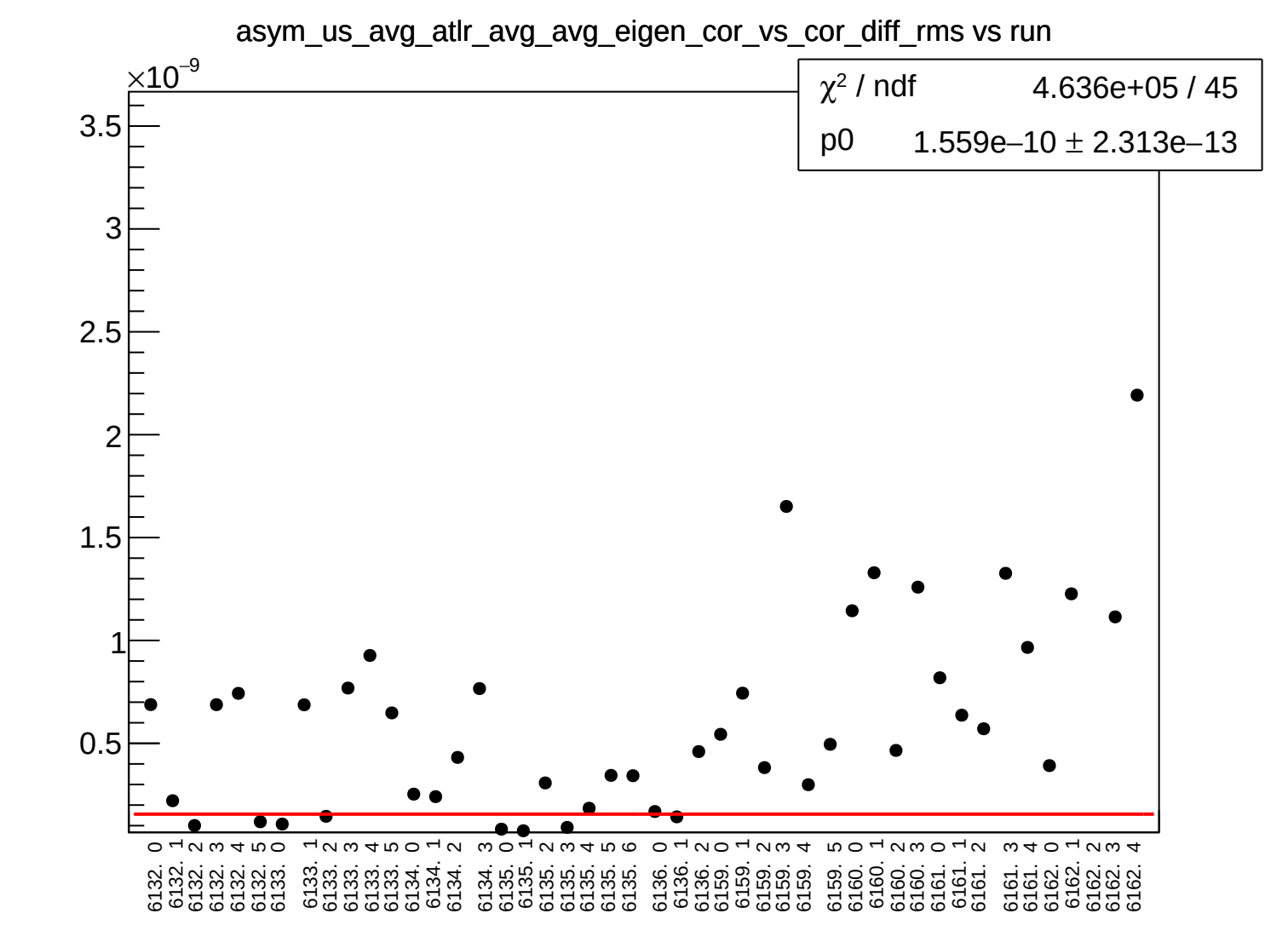

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.92 / 45
p0 −0.00121 ± 0.2965
pull
Entries 46
Mean 28.06
Std Dev 0

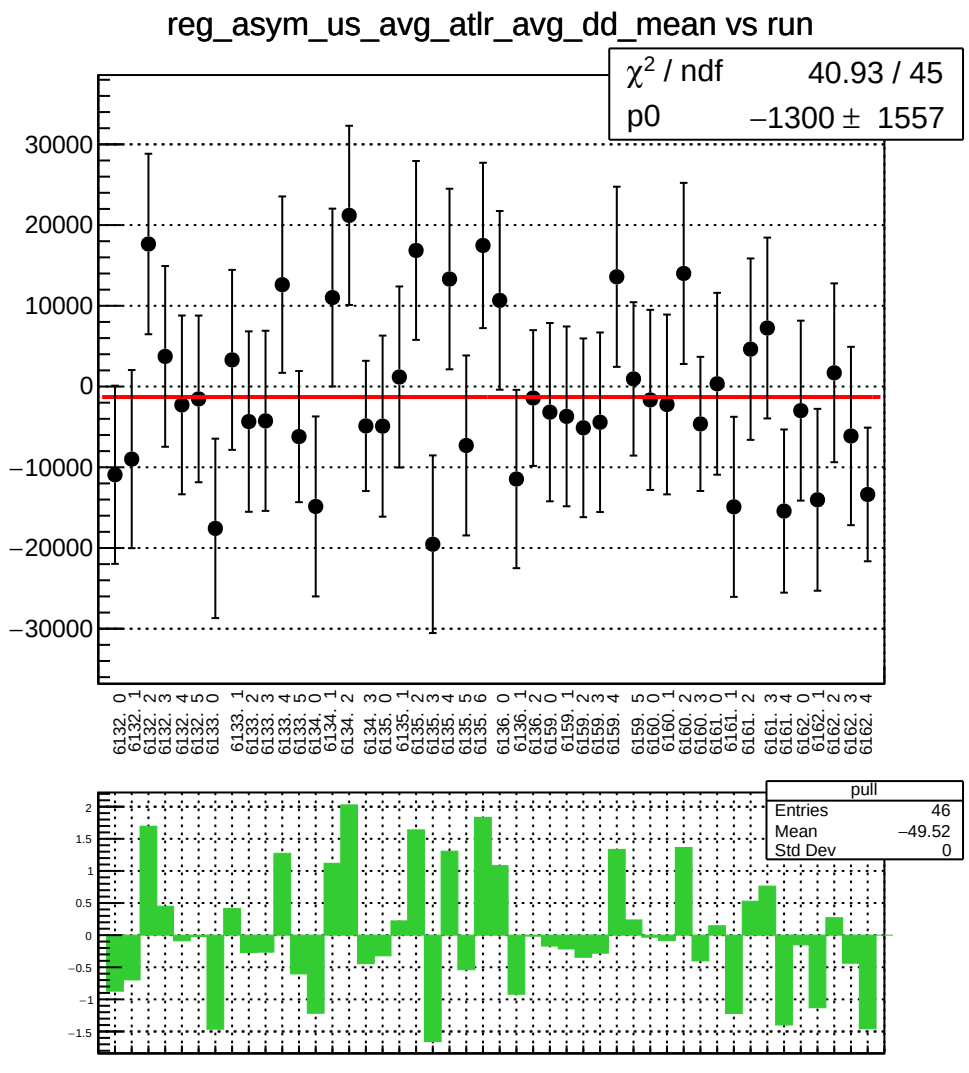

pull1D
Entries 46
Mean −0.02588
Std Dev 1.041

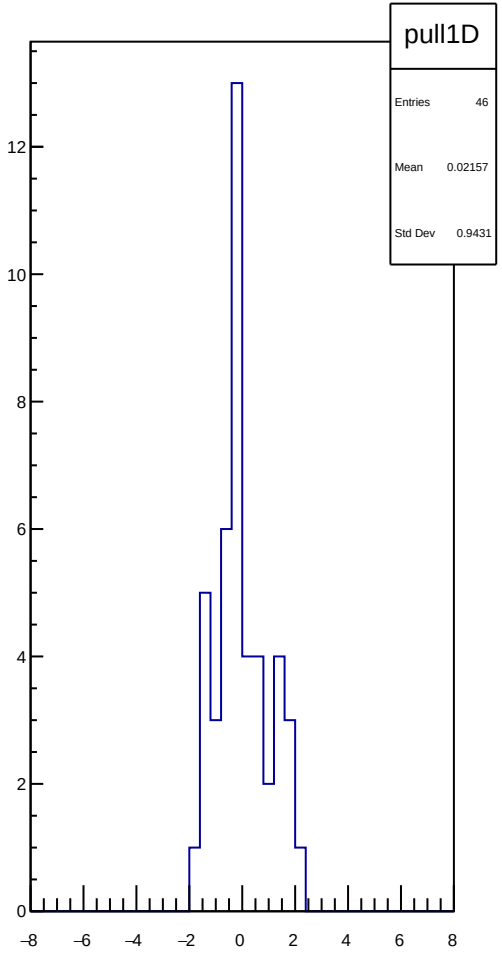

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.12e+04 / 45
p0 198.6 ± 0.2096
340
320
300
280
260
240
220
200
180
160
140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

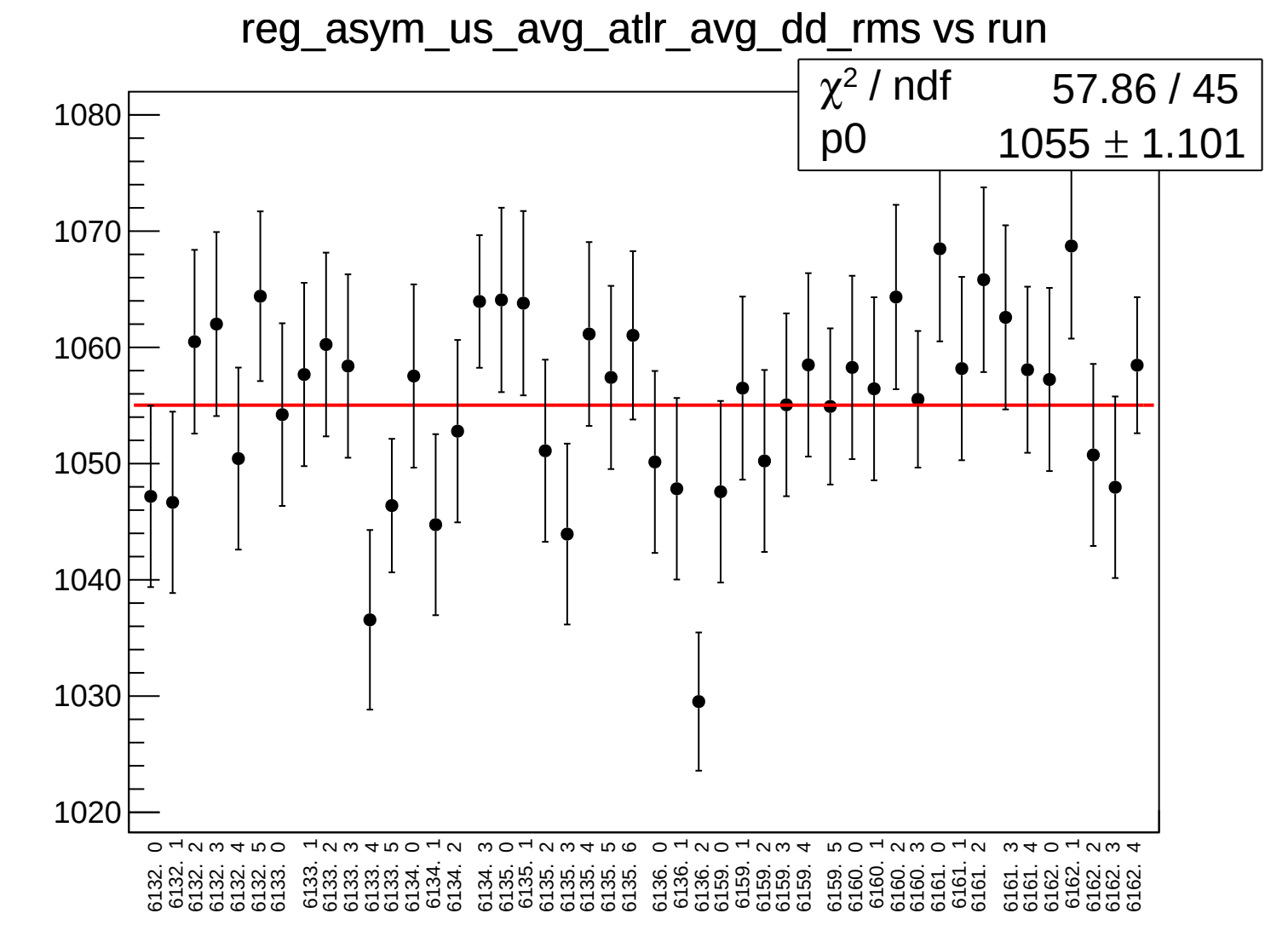

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 51.26 / 45
p0 1.922e−13 ± 3.271e−13
pull
Entries 46
Mean 35.28
Std Dev 7.482

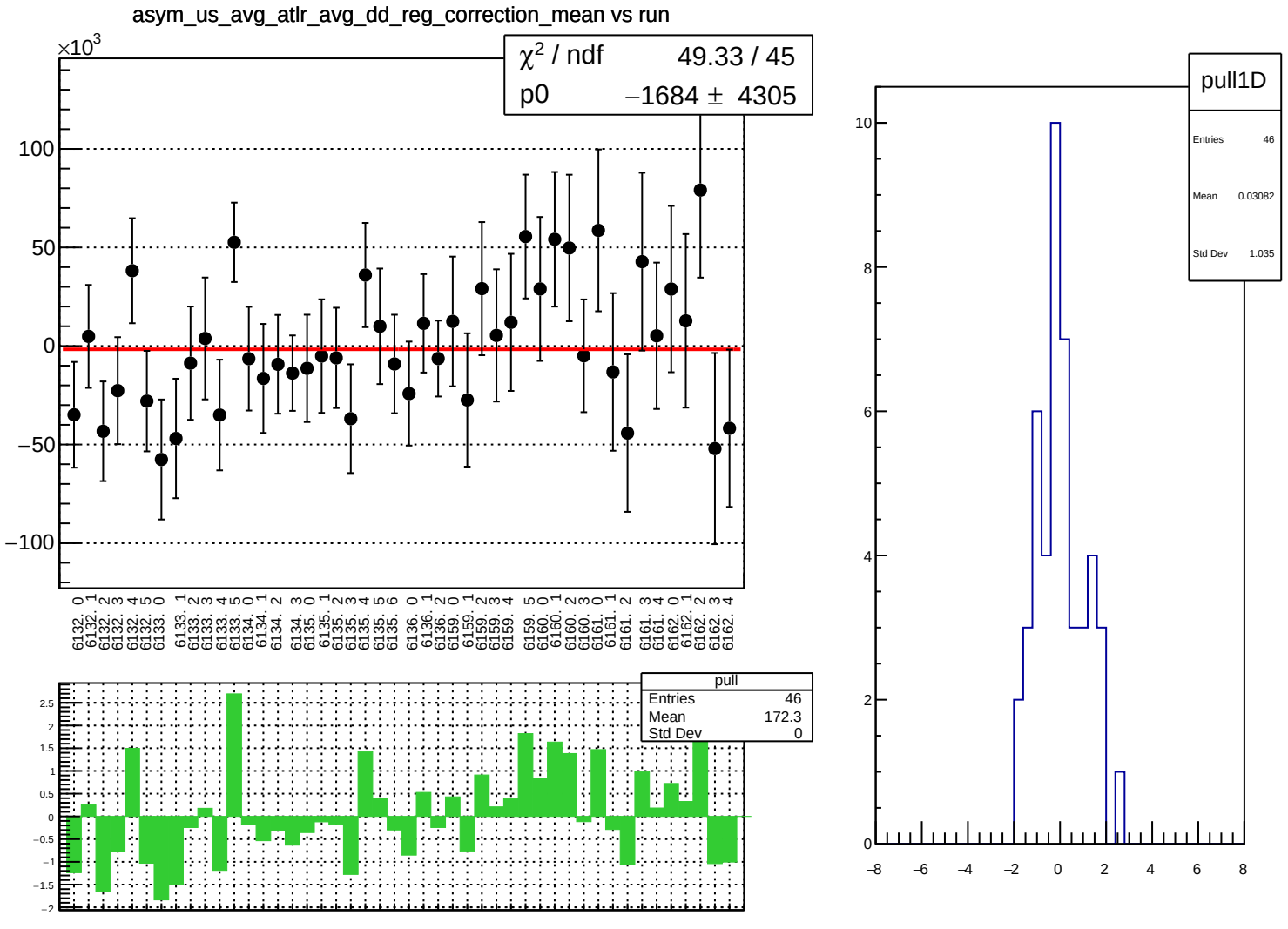

pull1D
Entries 46
Mean 0.1498
Std Dev 1.045

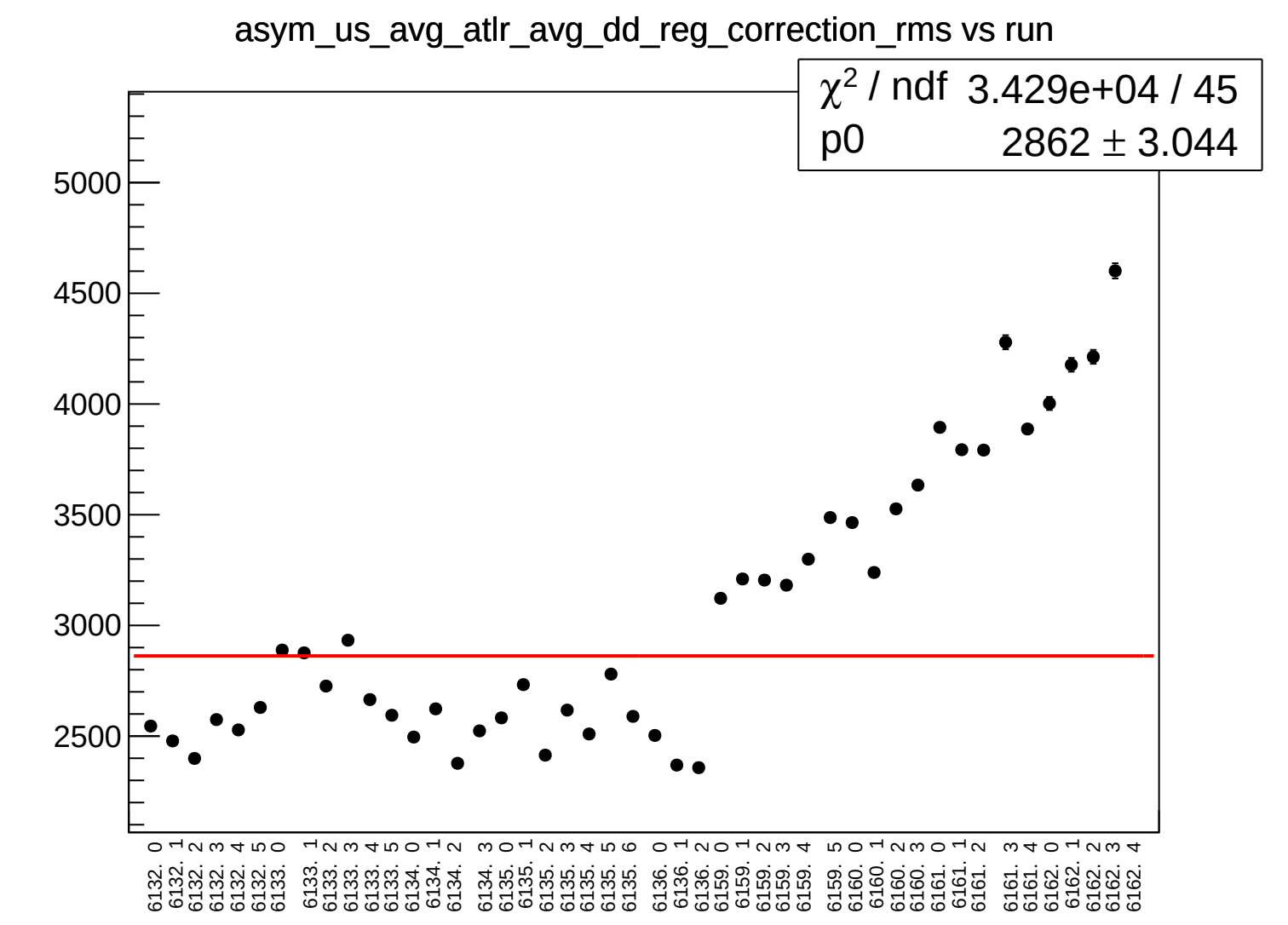

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.636e+05 / 45
p0 1.559e−10 ± 2.313e−13
3.5
3
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

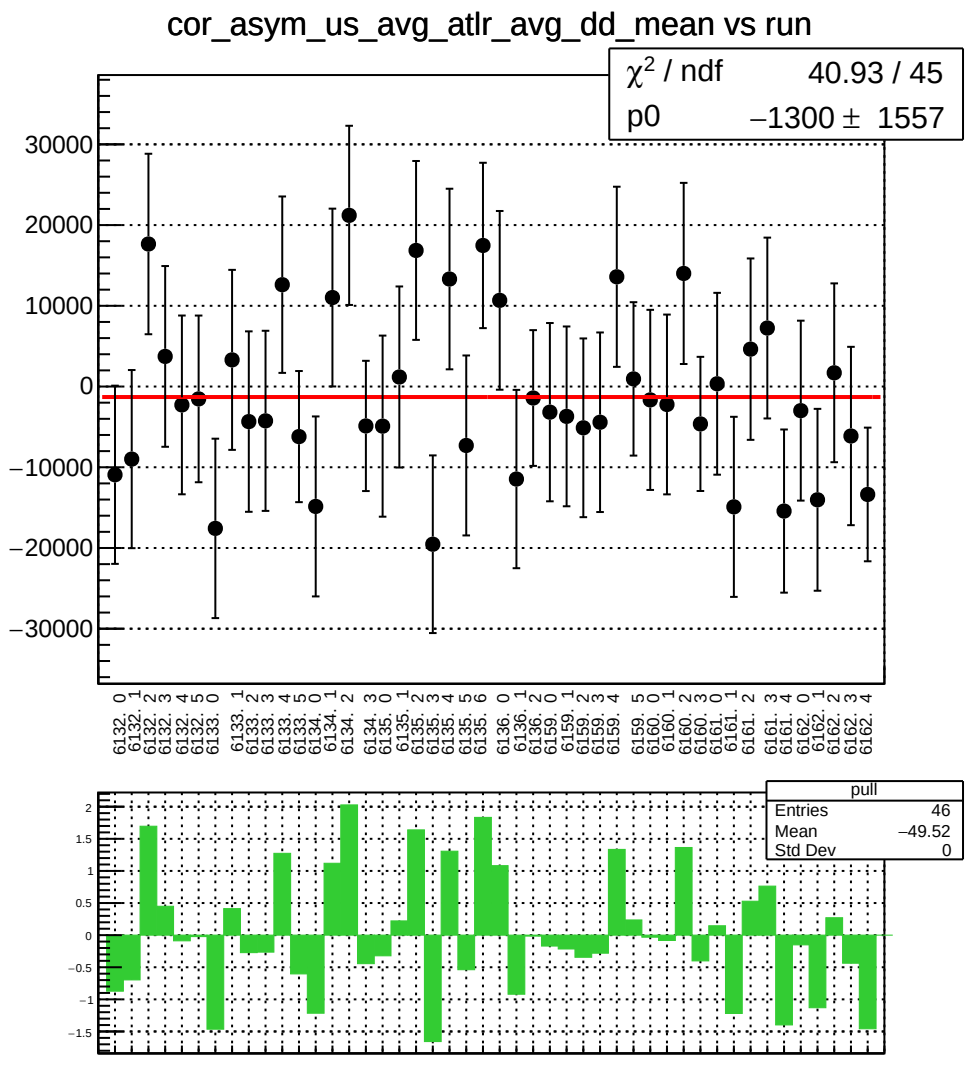

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 40.93 / 45
p0 −1300 ± 1557
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −49.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

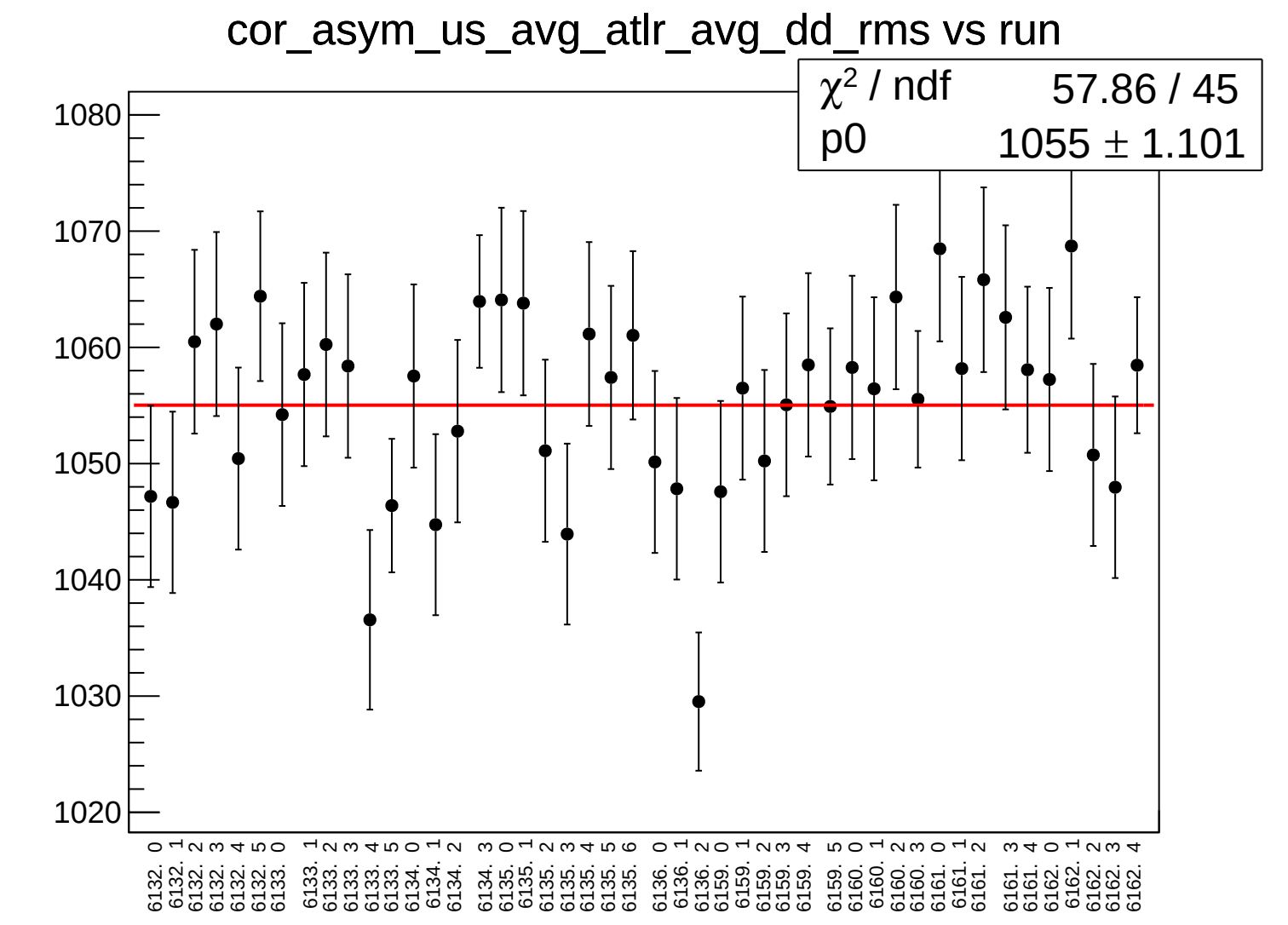

pull1D
Entries 46
Mean 0.02157
Std Dev 0.9431
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 57.86 / 45
p0 1055 ± 1.101
1080
1070
1060
1050
1040
1030
1020
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 49.33 / 45
p0 −1684 ± 4305
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 172.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.03082
Std Dev 1.035
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 3.429e+04 / 45
p0 2862 ± 3.044
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 40.93 / 45
p0 −1300 ± 1557
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −49.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.02157
Std Dev 0.9431
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 57.86 / 45
p0 1055 ± 1.101
1080
1070
1060
1050
1040
1030
1020
6132. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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6161. 4
6162. 0
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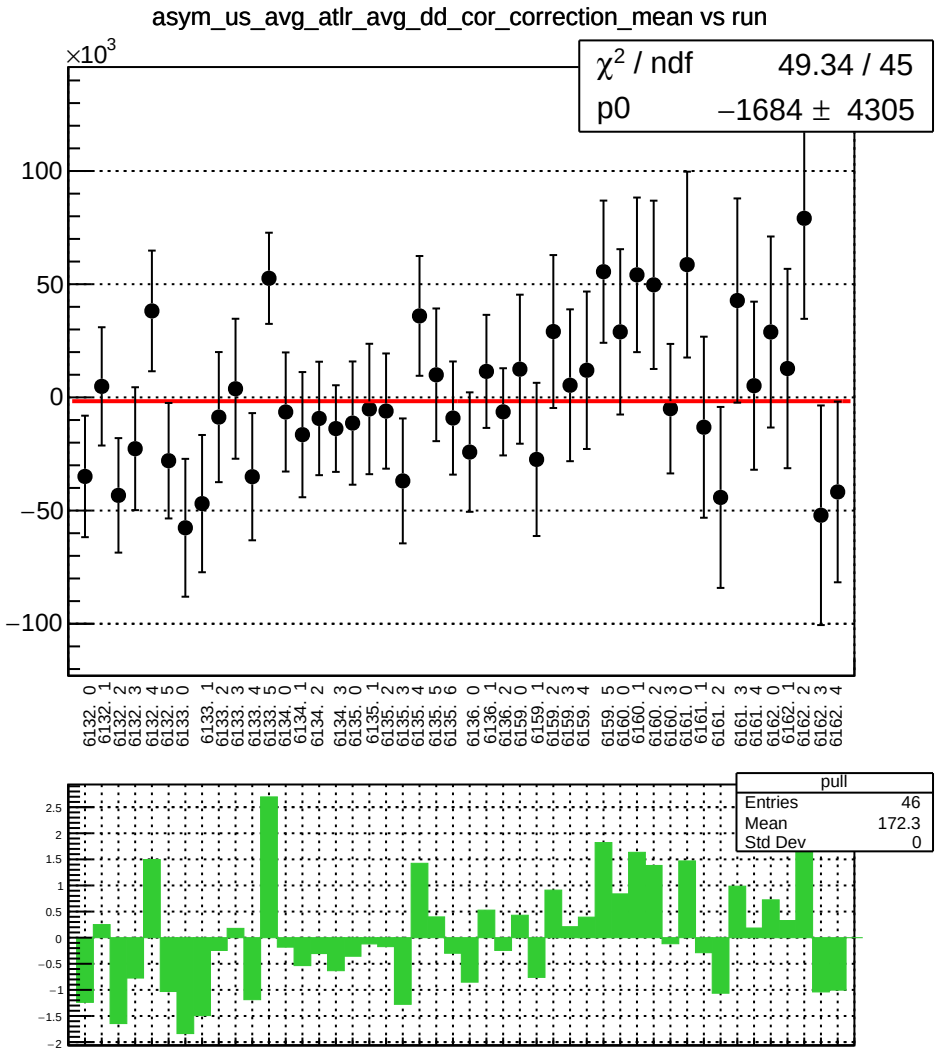
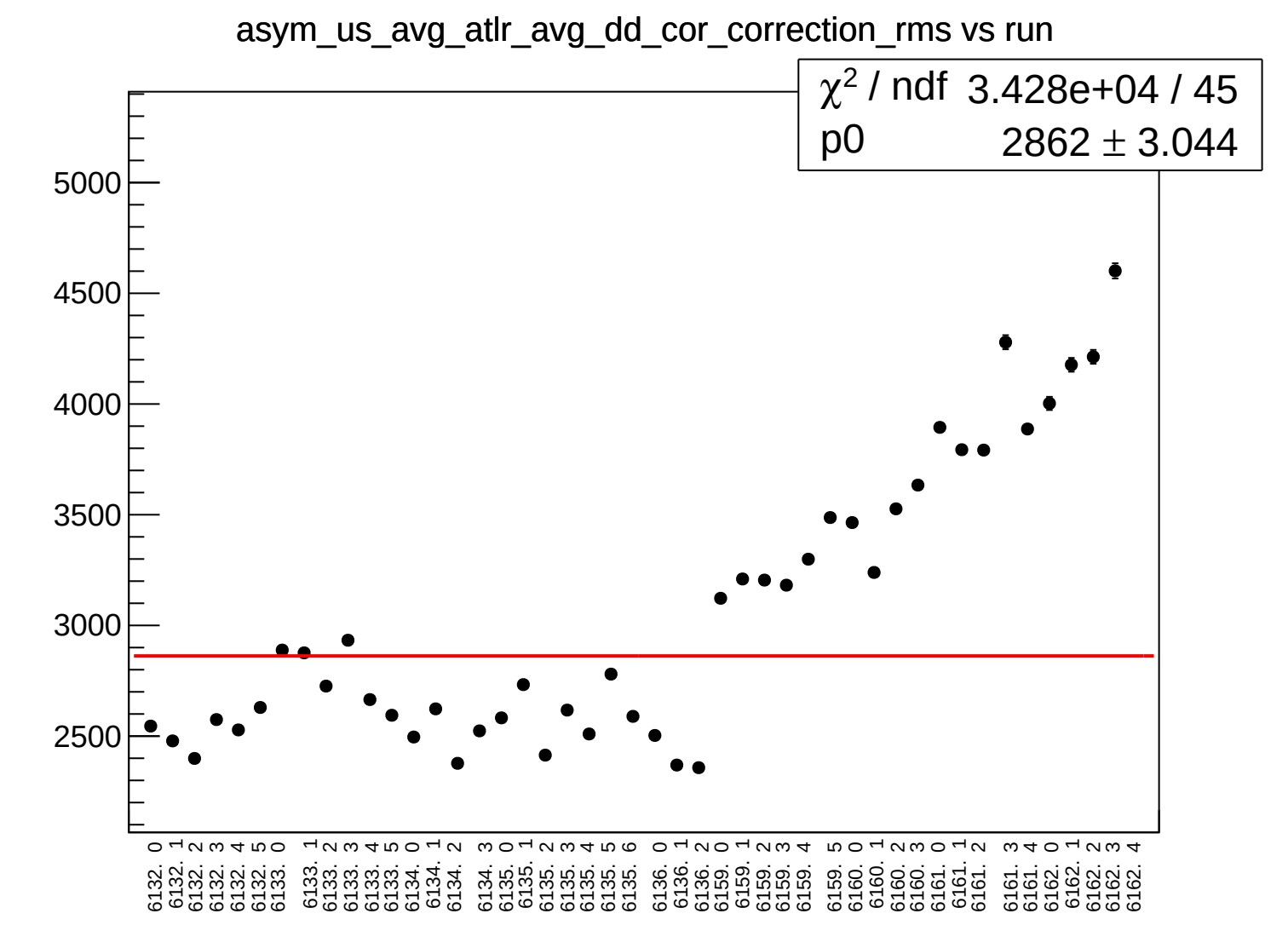
6162. 2
6162. 3
6162. 4


asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 49.34 / 45
p0 −1684 ± 4305
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 172.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.03082
Std Dev 1.035
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 3.428e+04 / 45
p0 2862 ± 3.044
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
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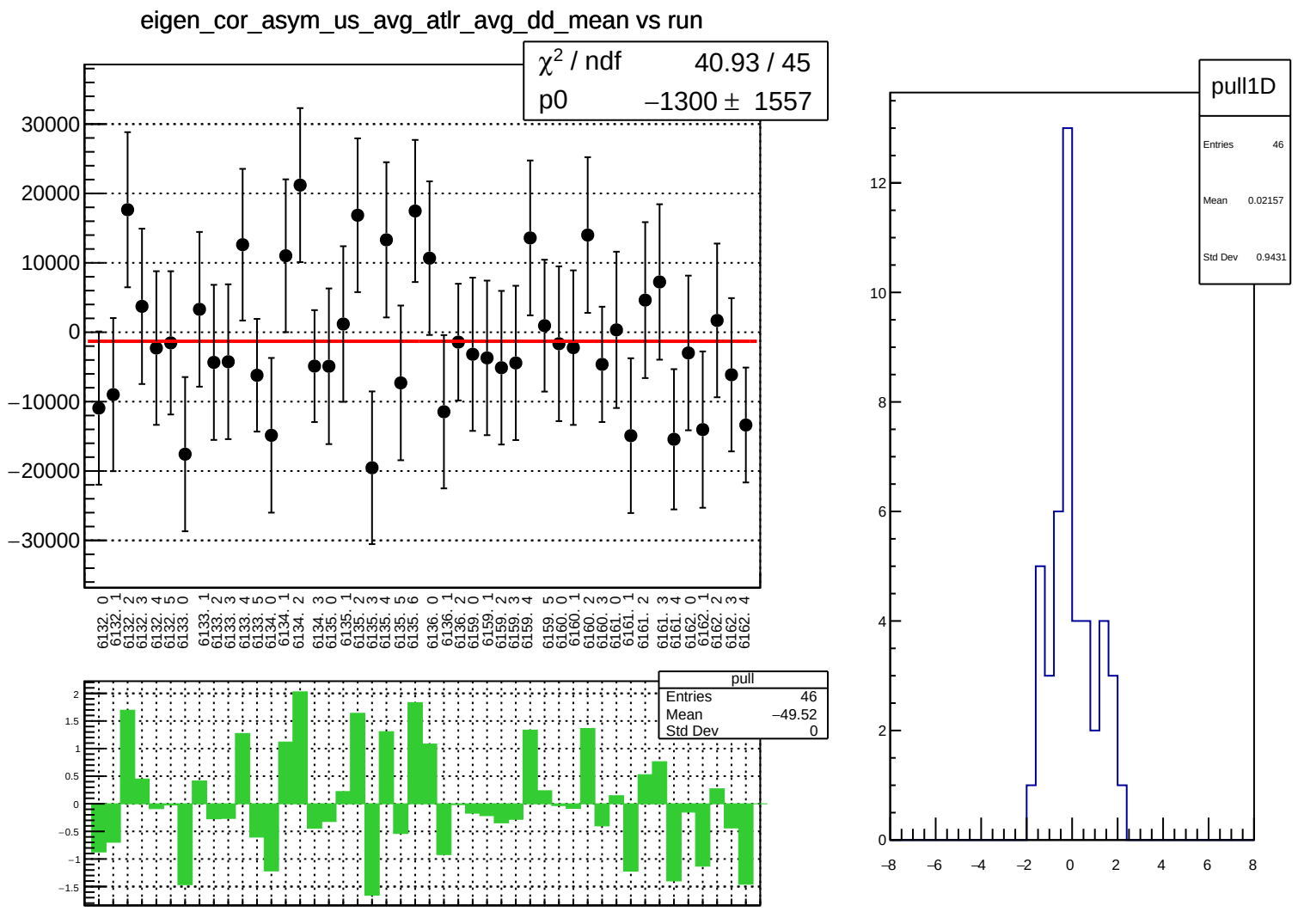
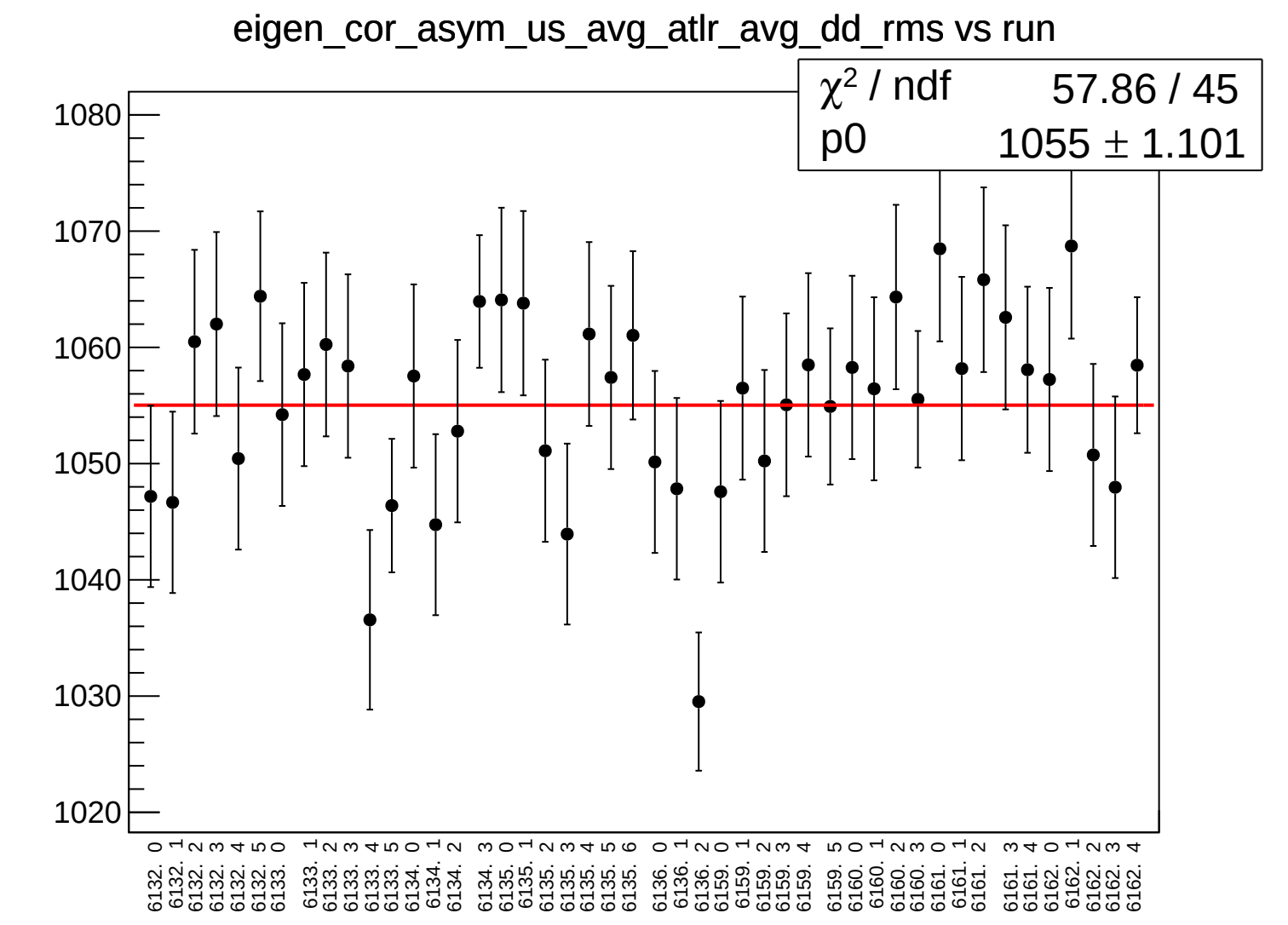
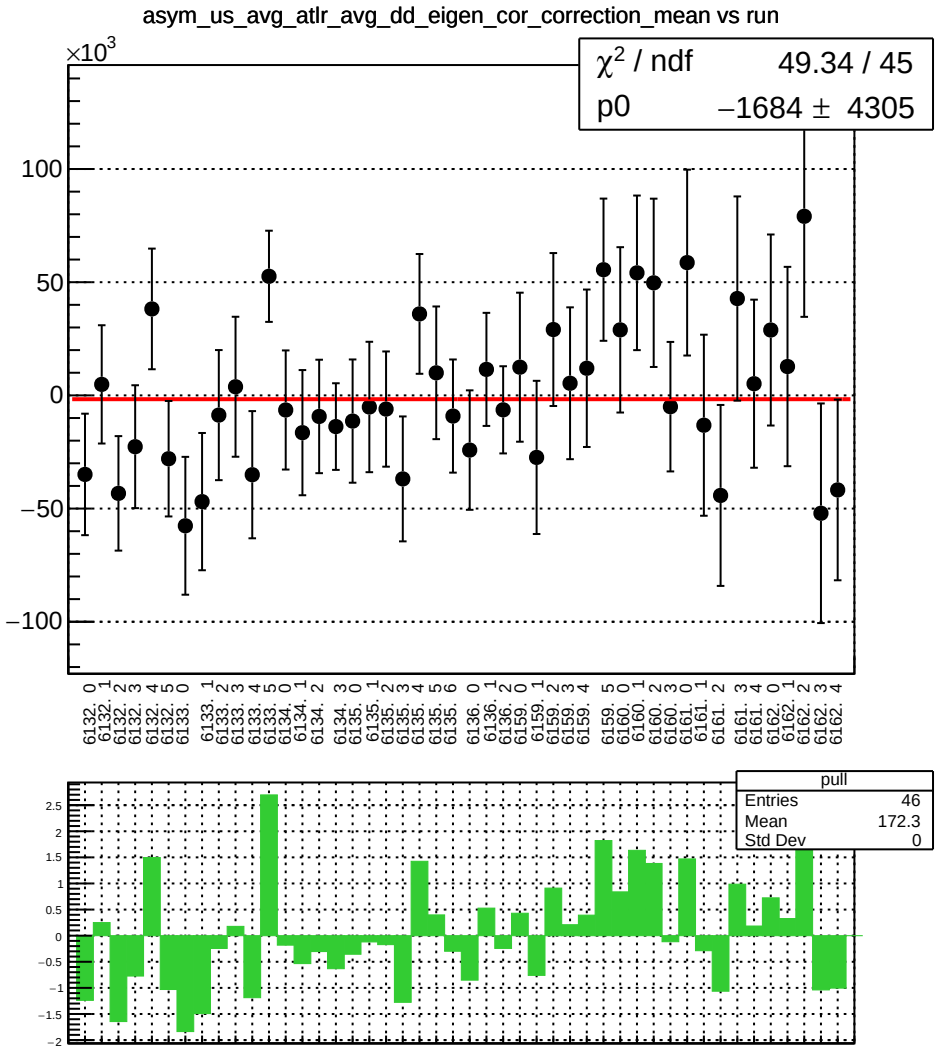
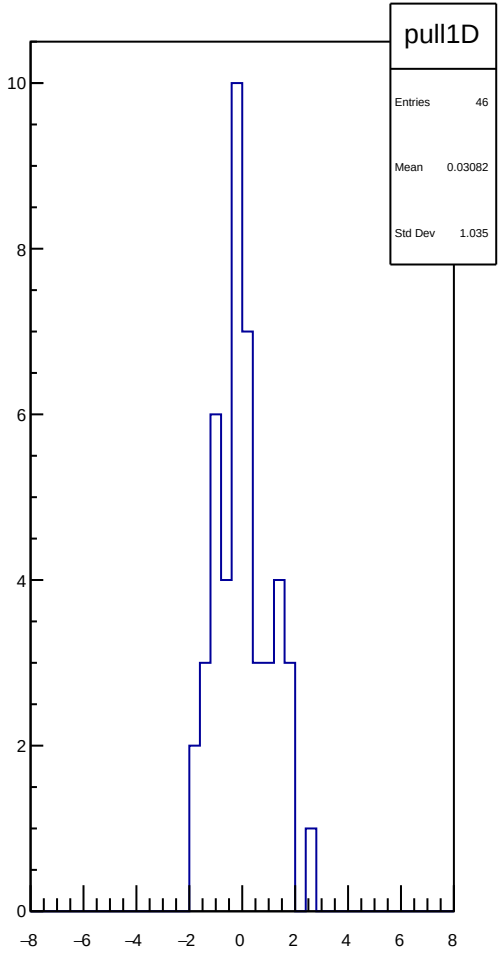
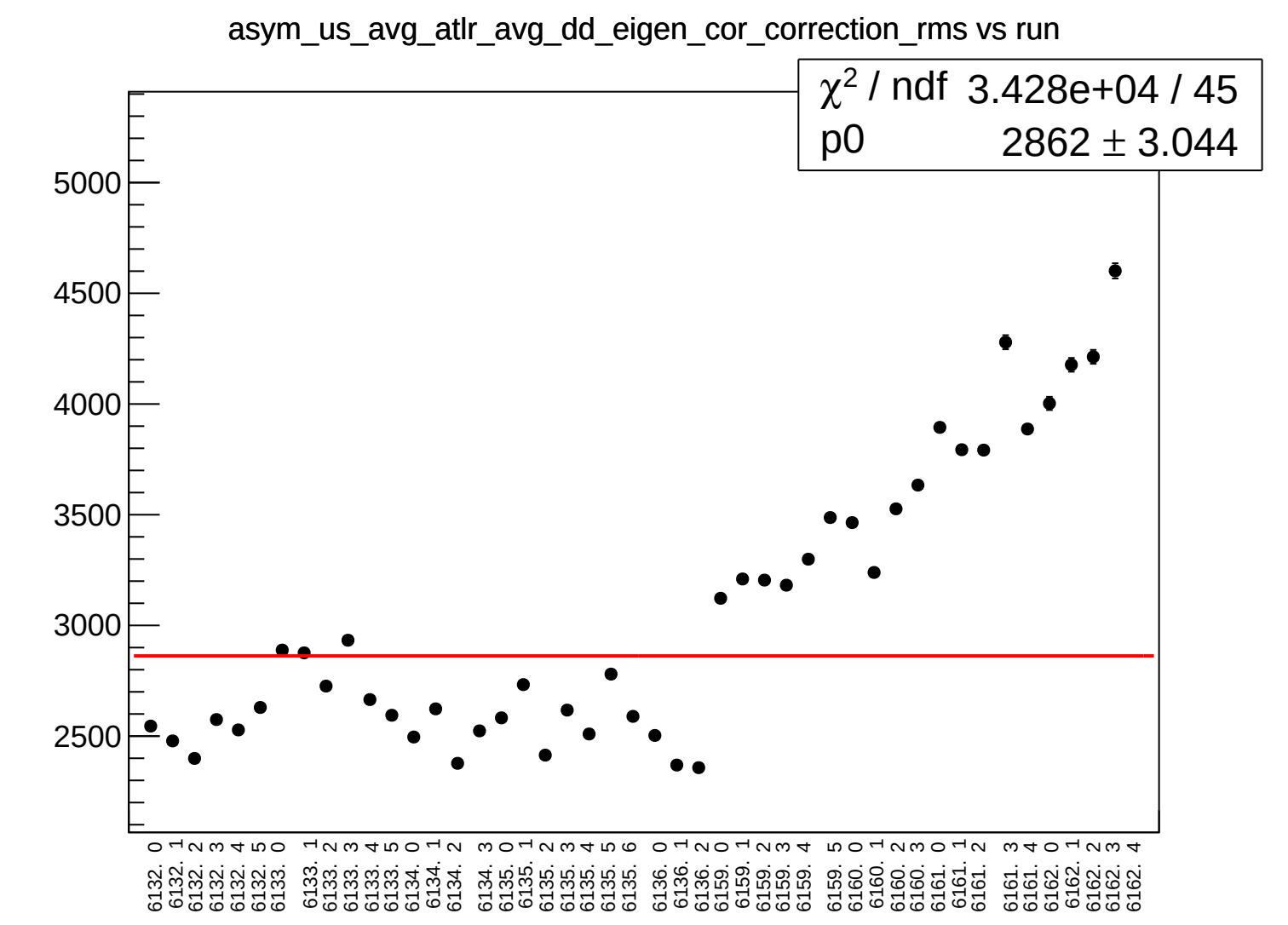
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

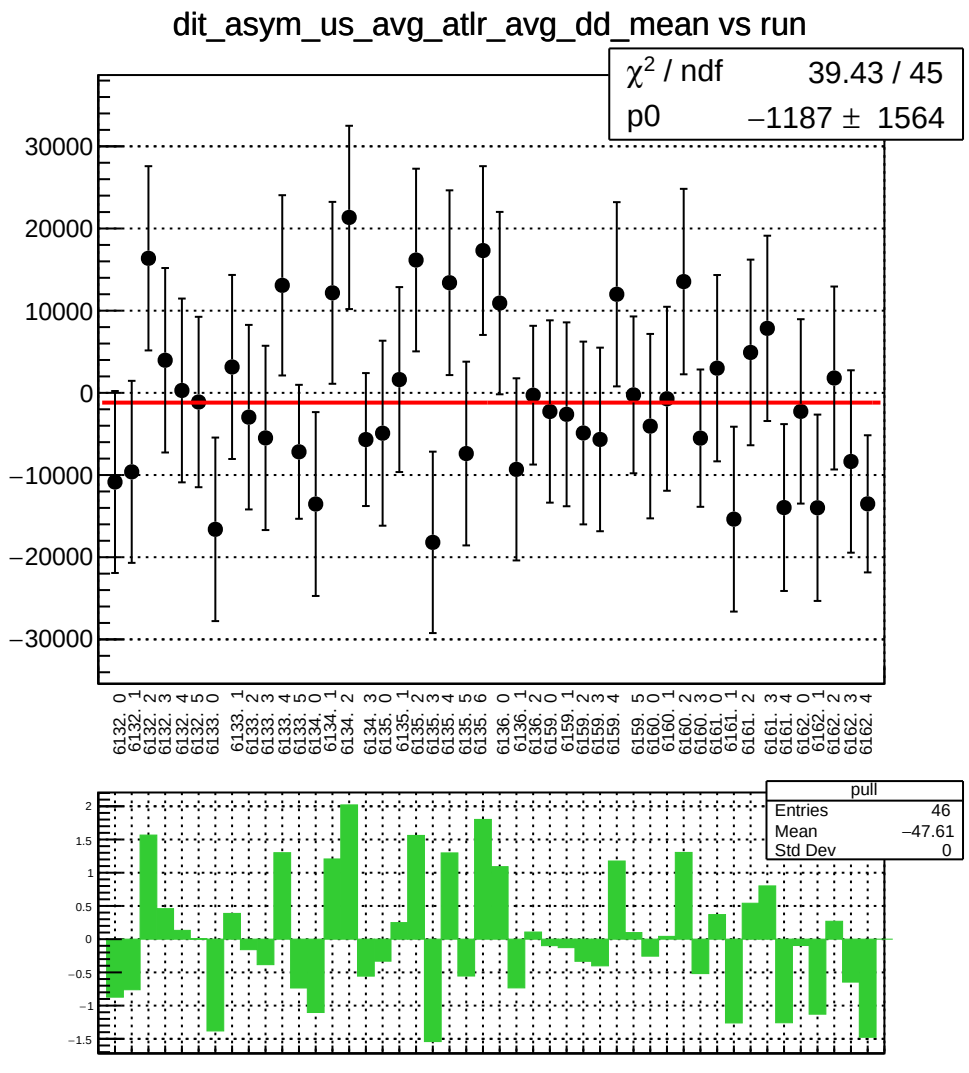

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 40.93 / 45
p0 −1300 ± 1557
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −49.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.02157
Std Dev 0.9431
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

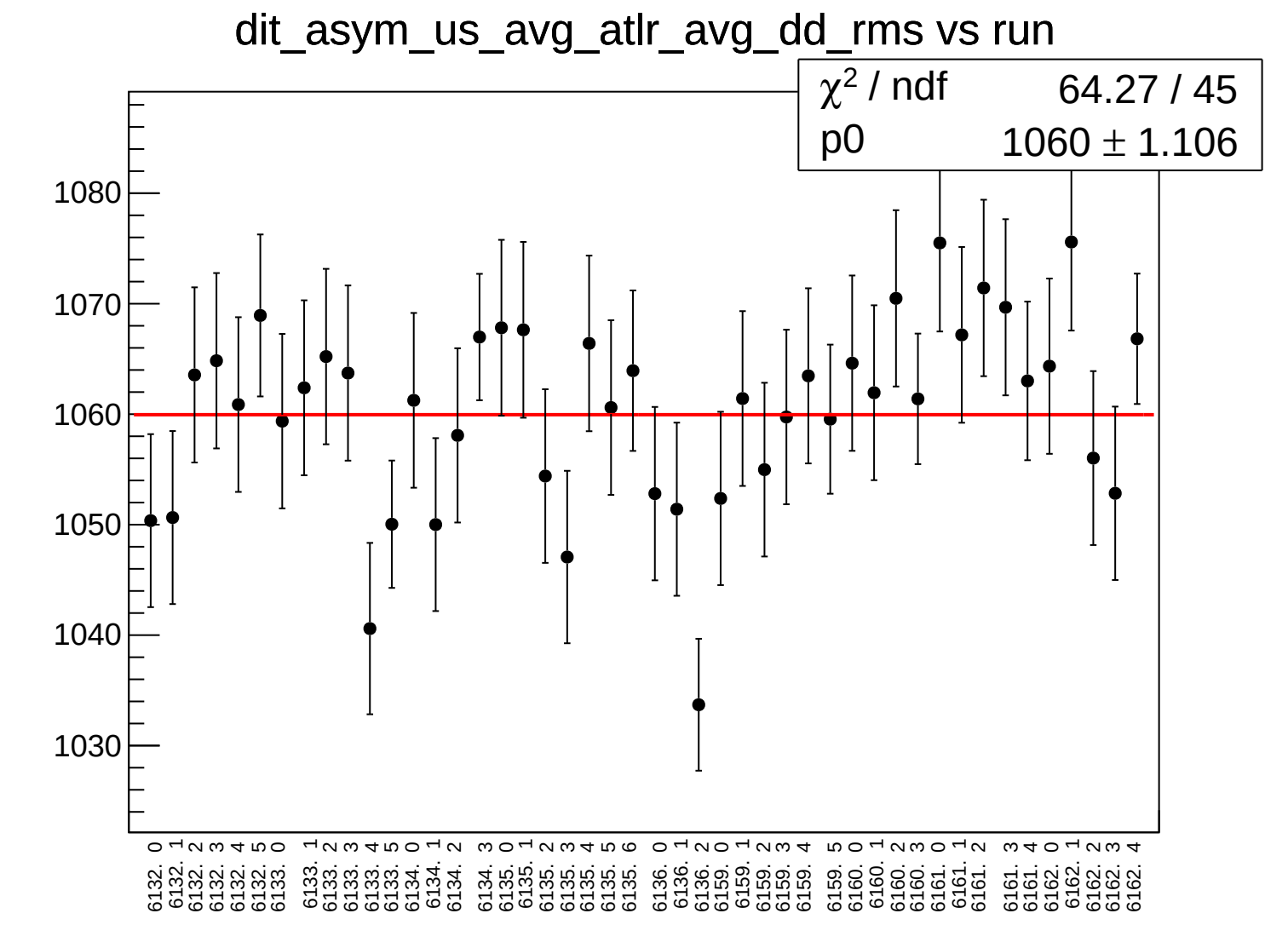

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 57.86 / 45
p0 1055 ± 1.101
1080
1070
1060
1050
1040
1030
1020
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 49.34 / 45
p0 −1684 ± 4305
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 172.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.03082
Std Dev 1.035
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.428e+04 / 45
p0 2862 ± 3.044
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 39.43 / 45
p0 −1187 ± 1564
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −47.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.02363
Std Dev 0.9255
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 64.27 / 45
p0 1060 ± 1.106
1080
1070
1060
1050
1040
1030
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6134. 2
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6135. 6
6136. 0
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6136. 2
6159. 0
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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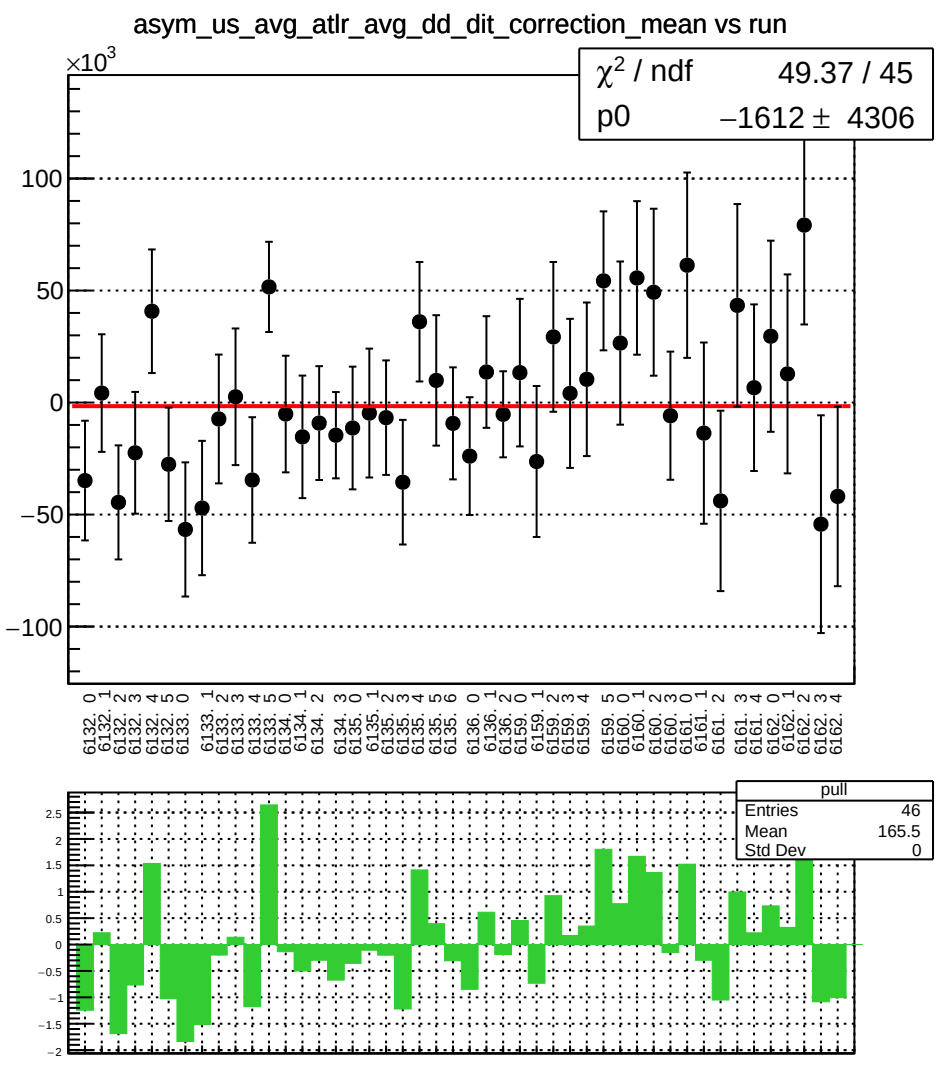
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 49.37 / 45
p0 −1612 ± 4306
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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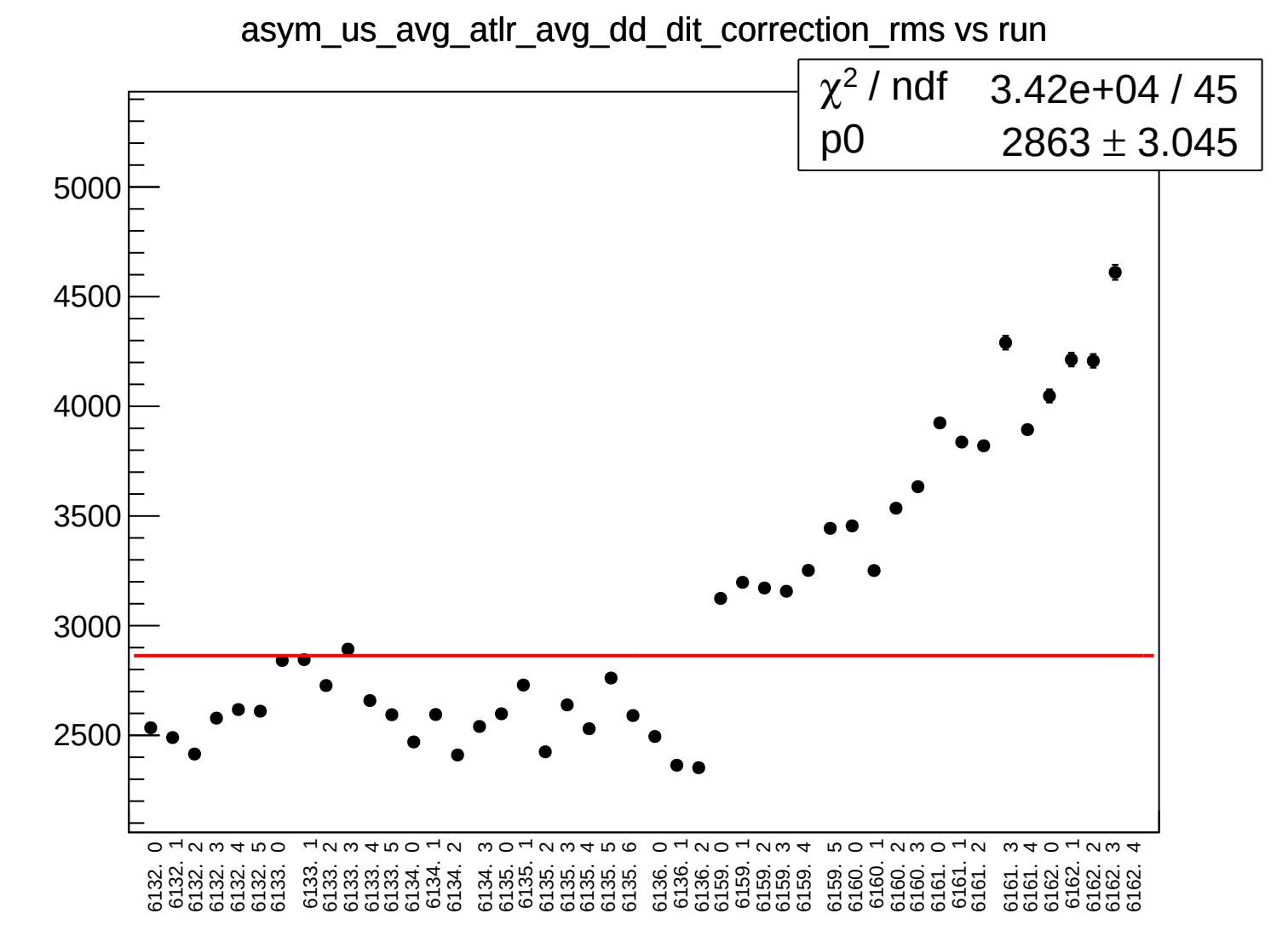
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6136. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 165.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.03235
Std Dev 1.036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 3.42e+04 / 45
p0 2863 ± 3.045
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
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6135. 2
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6136. 0
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
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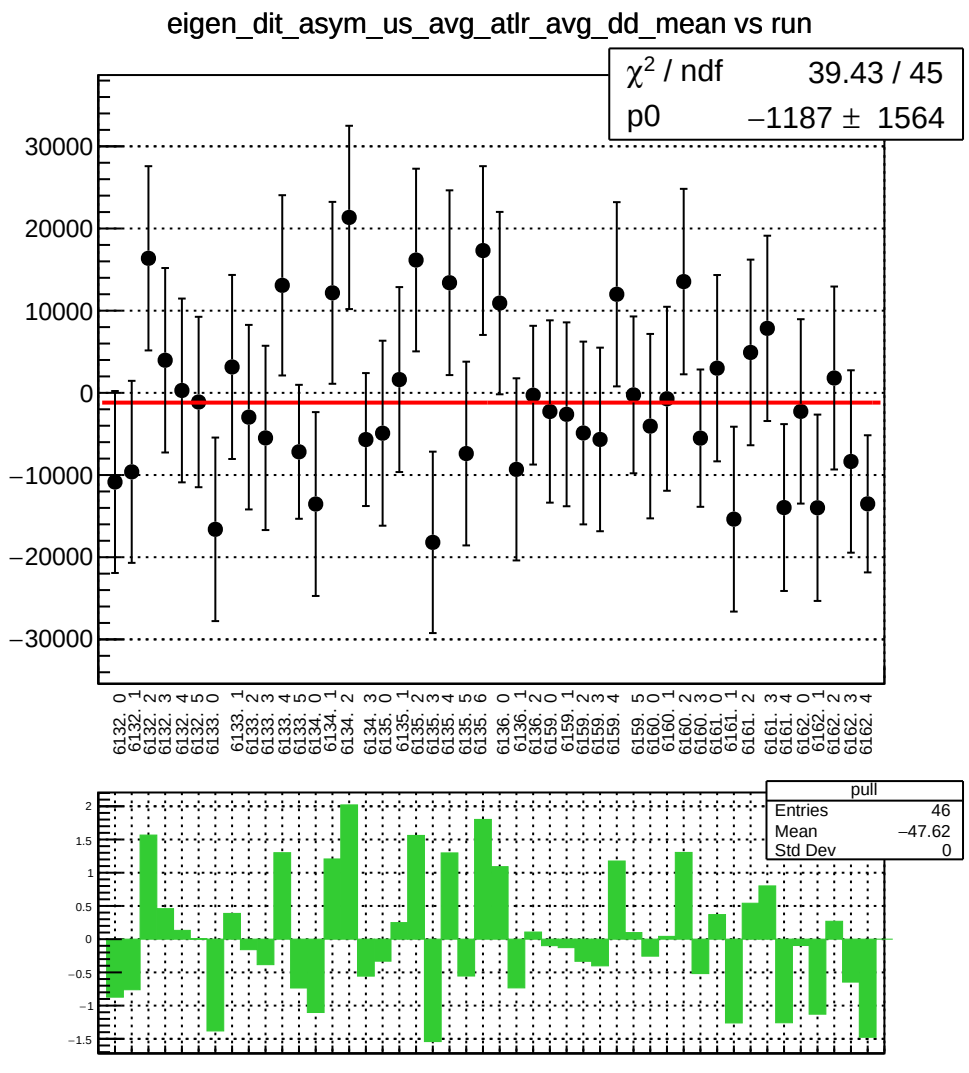
6162. 4


eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 39.43 / 45
p0 −1187 ± 1564
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
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6134. 1
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6135. 1
6135. 2
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6136. 2
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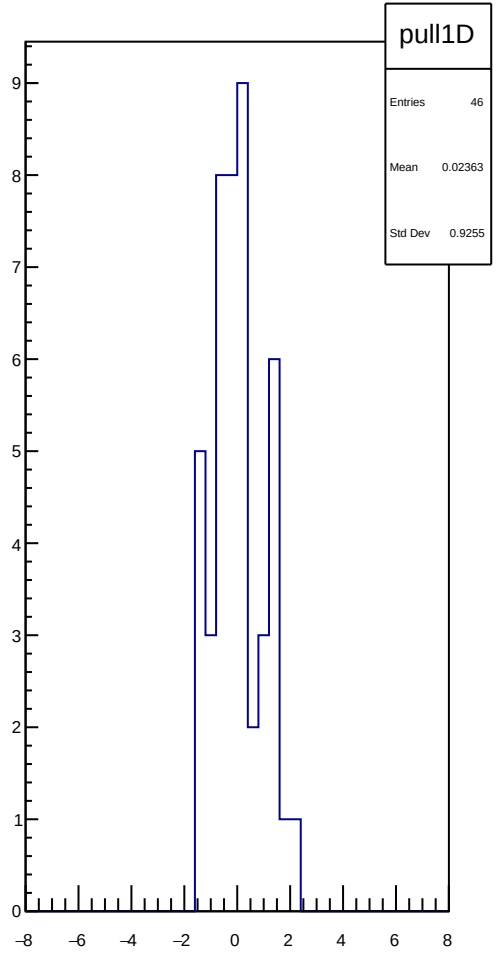
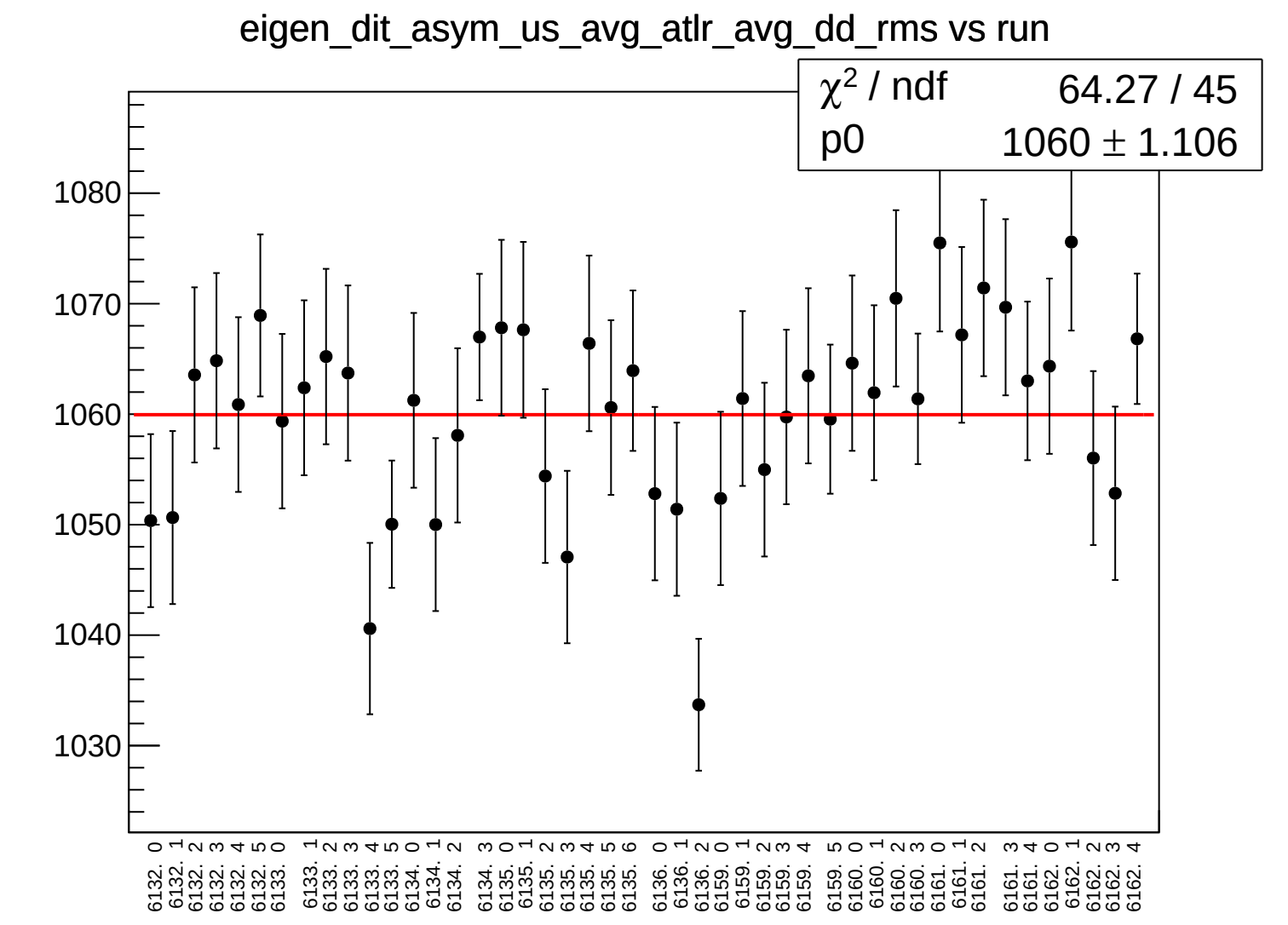
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −47.62
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 46
Mean 0.02363
Std Dev 0.9255
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 64.27 / 45
p0 1060 ± 1.106
1080
1070
1060
1050
1040
1030
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 3
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6135. 2
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6135. 6
6136. 0
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6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
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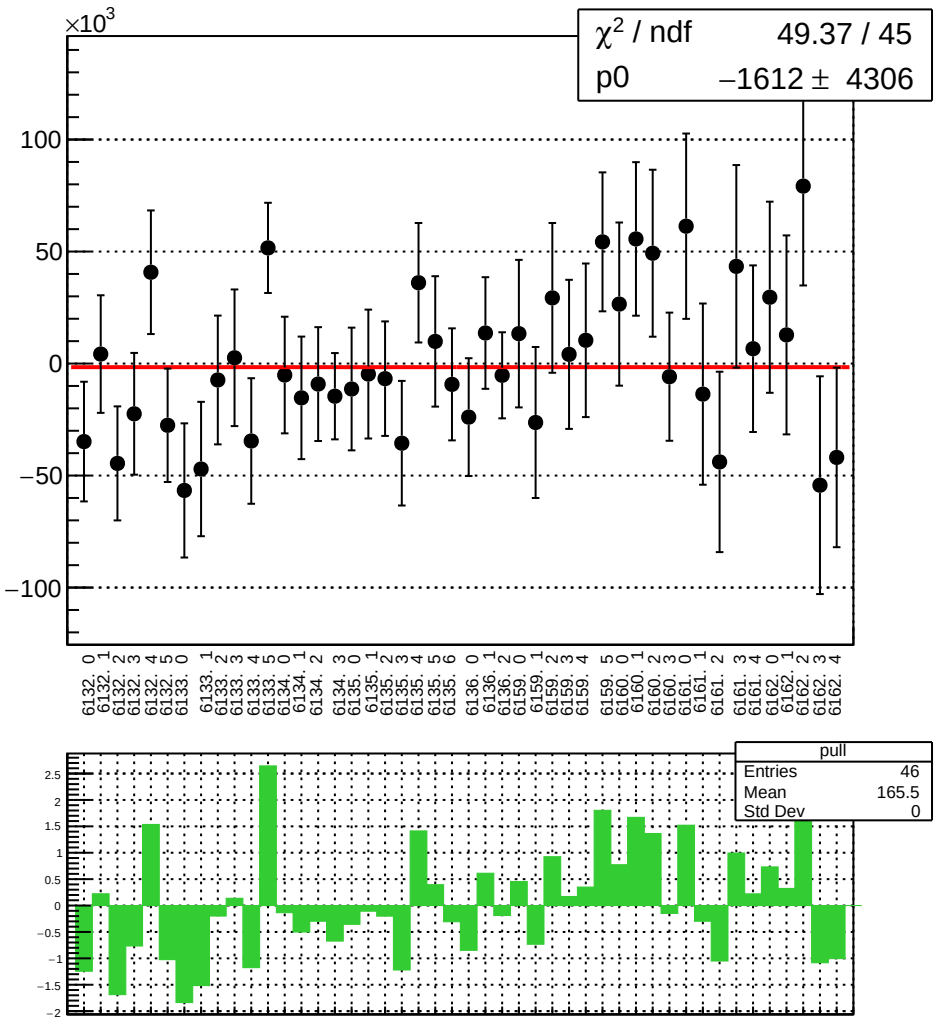
6162. 4


asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 49.37 / 45
p0 −1612 ± 4306
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
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6134. 2
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6135. 6
6136. 0
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6136. 2
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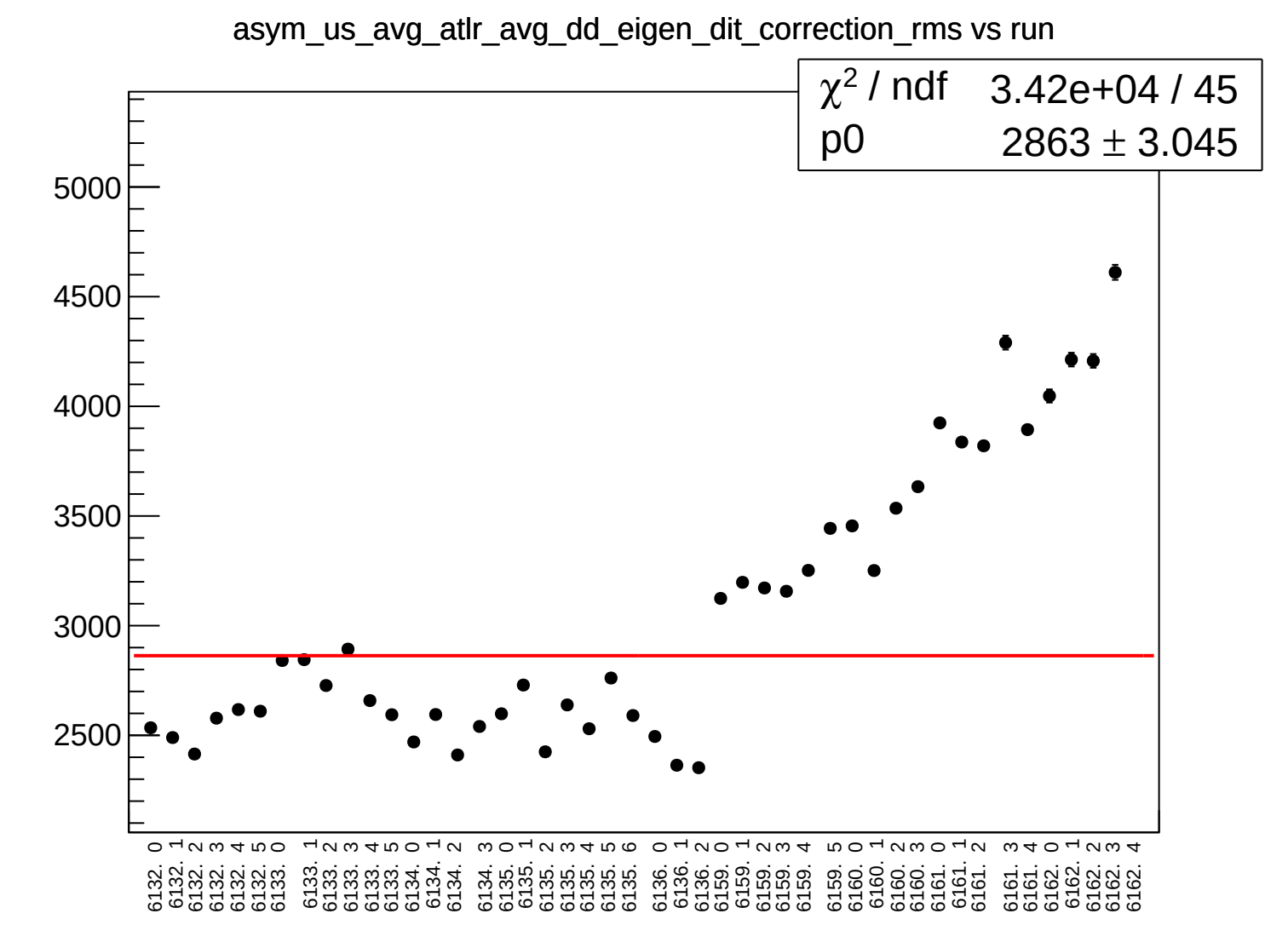
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 165.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.03235
Std Dev 1.036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.42e+04 / 45
p0 2863 ± 3.045
5000
4500
4000
3500
3000
2500
6132. 0
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6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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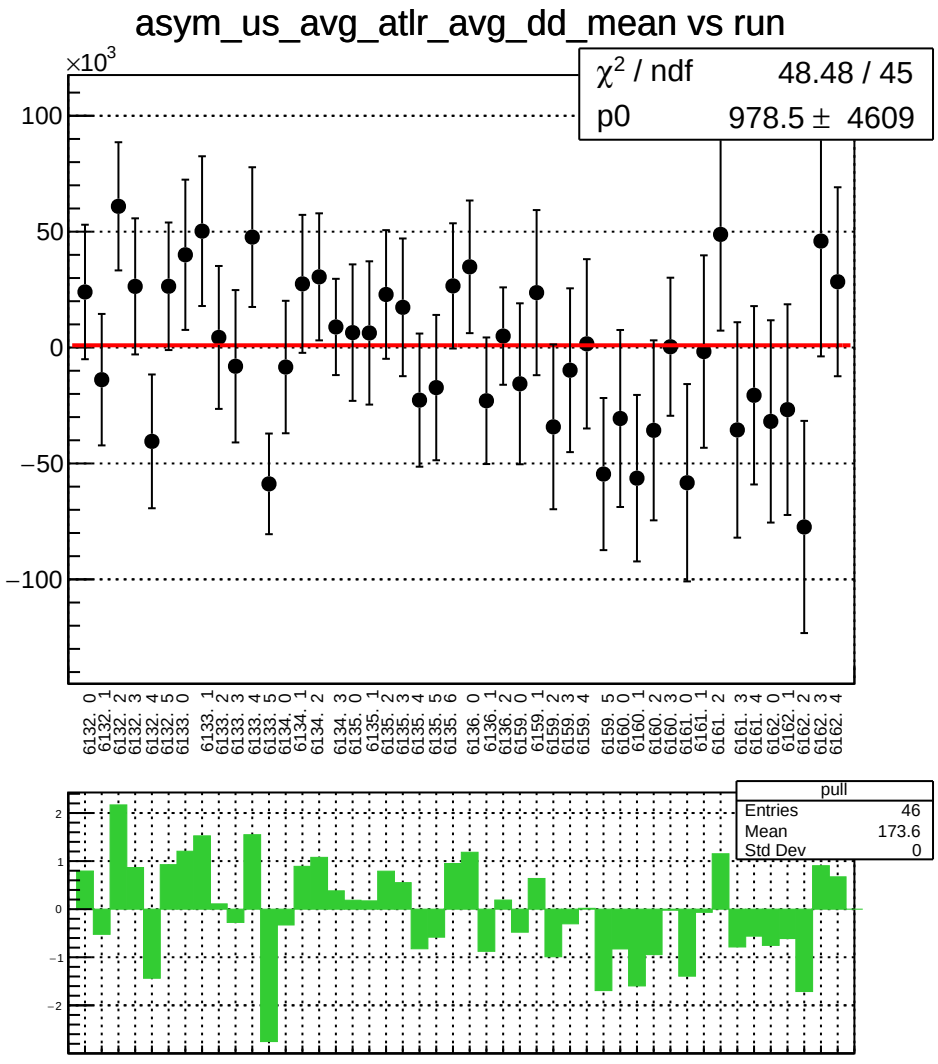
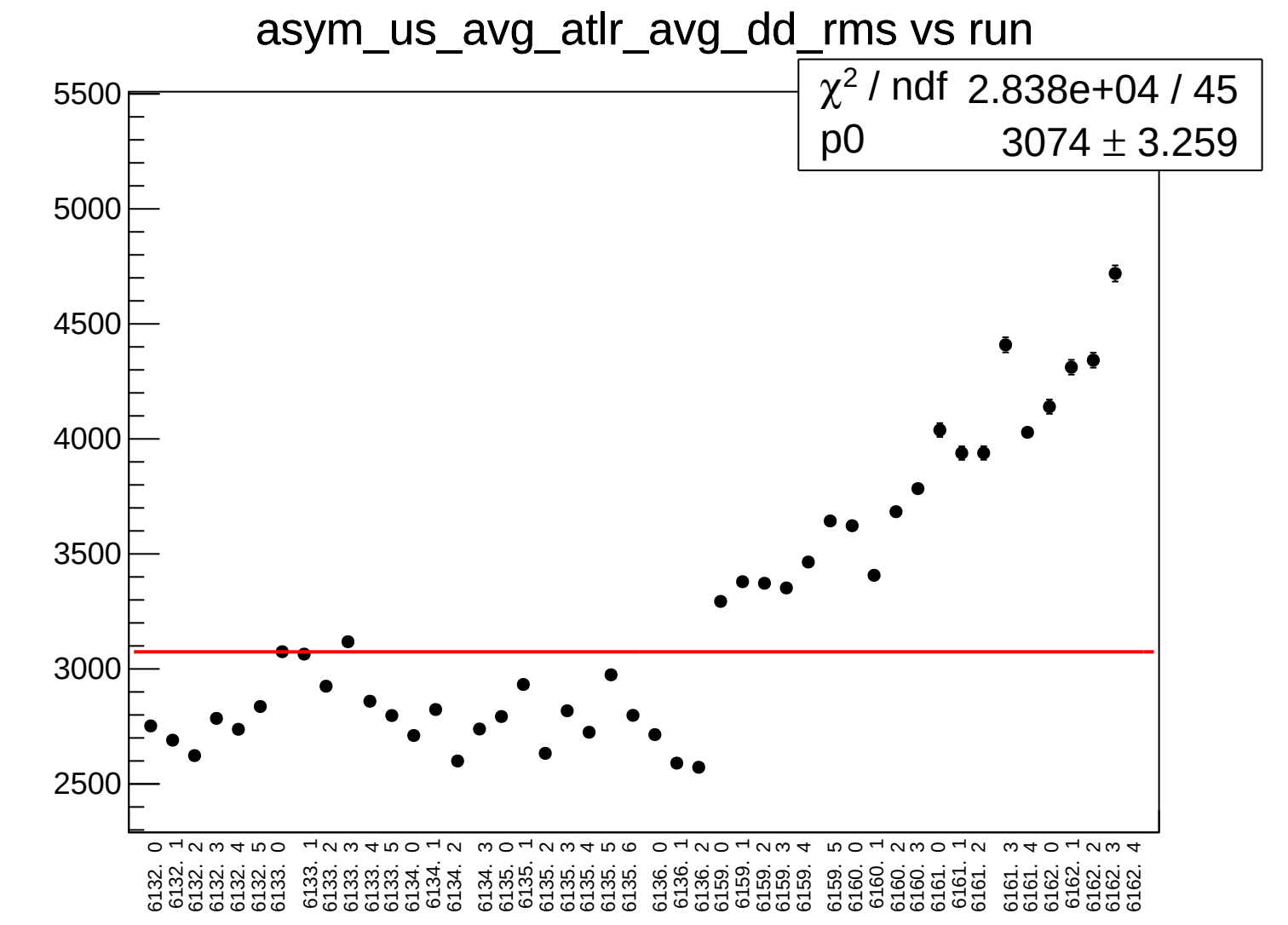
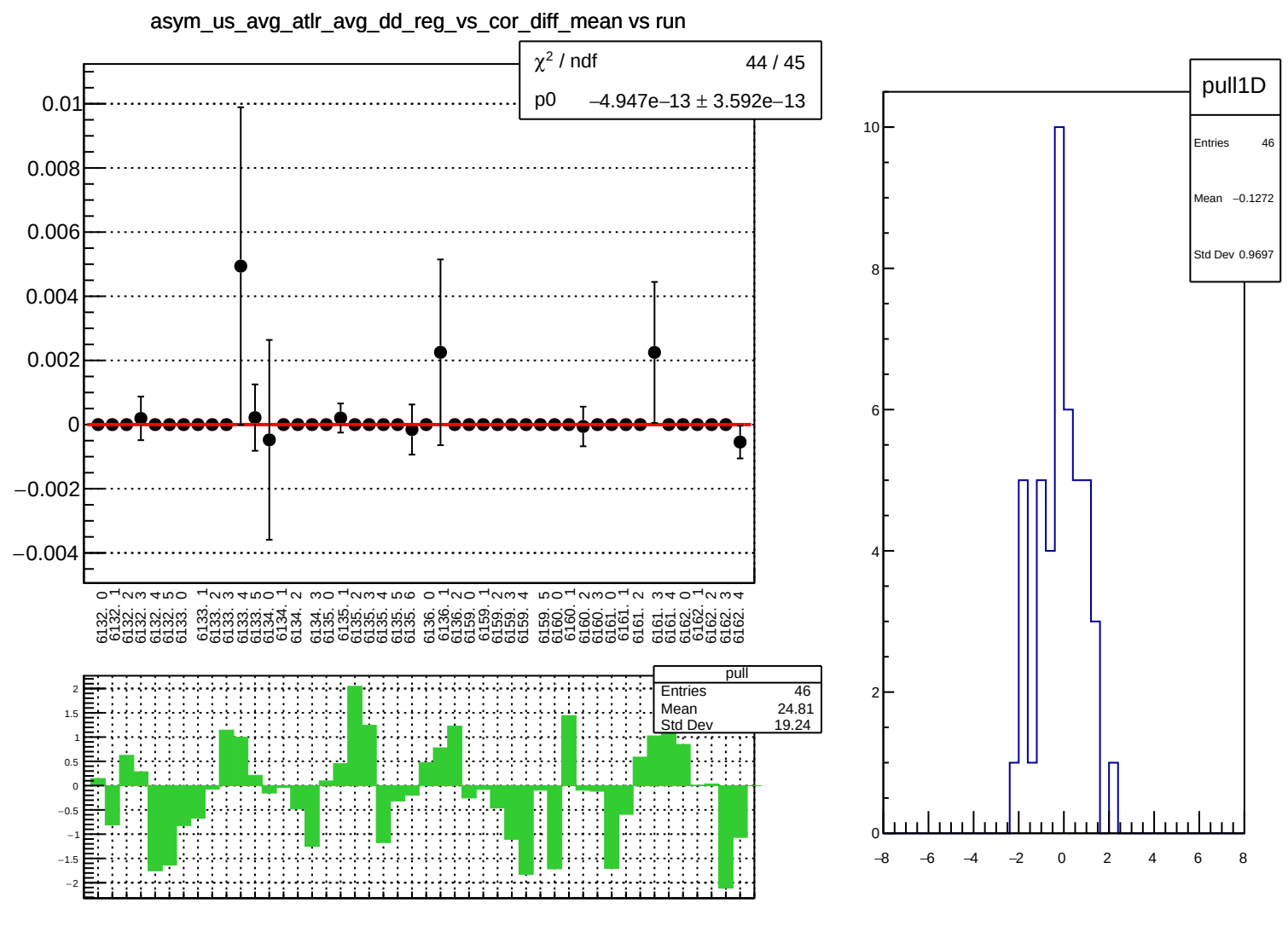
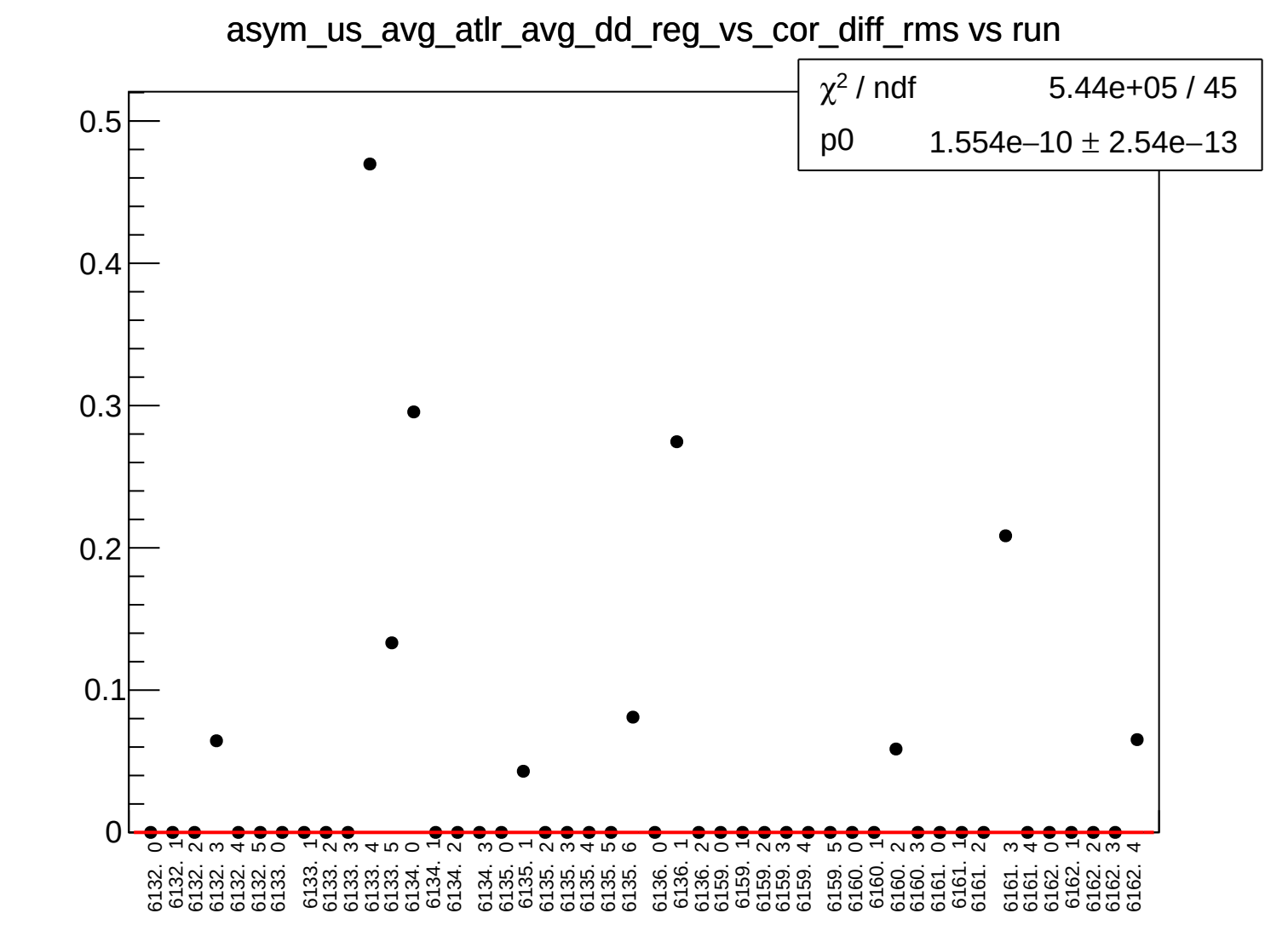
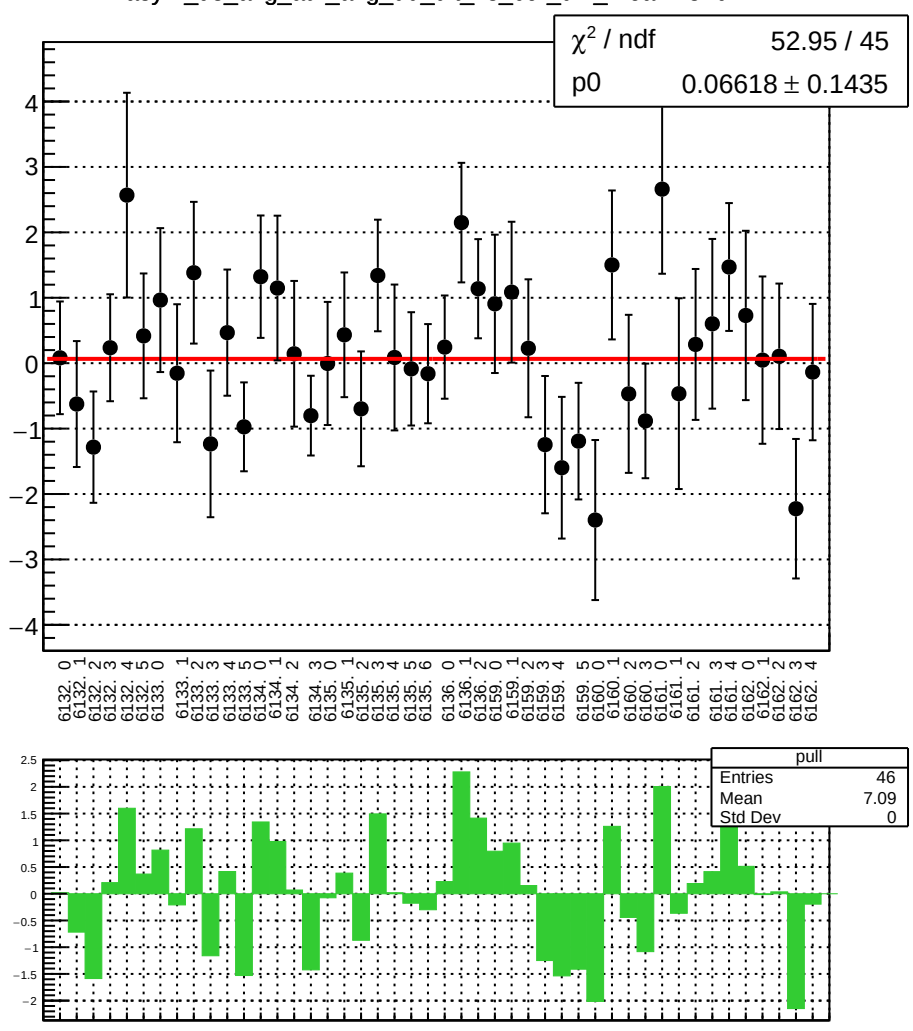
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

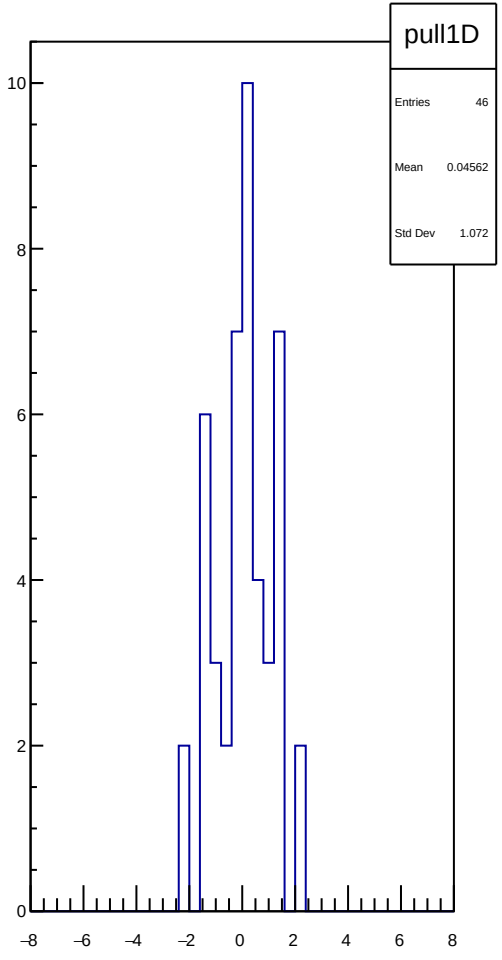

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 48.48 / 45
p0 978.5 ± 4609
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 173.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.03123
Std Dev 1.026
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

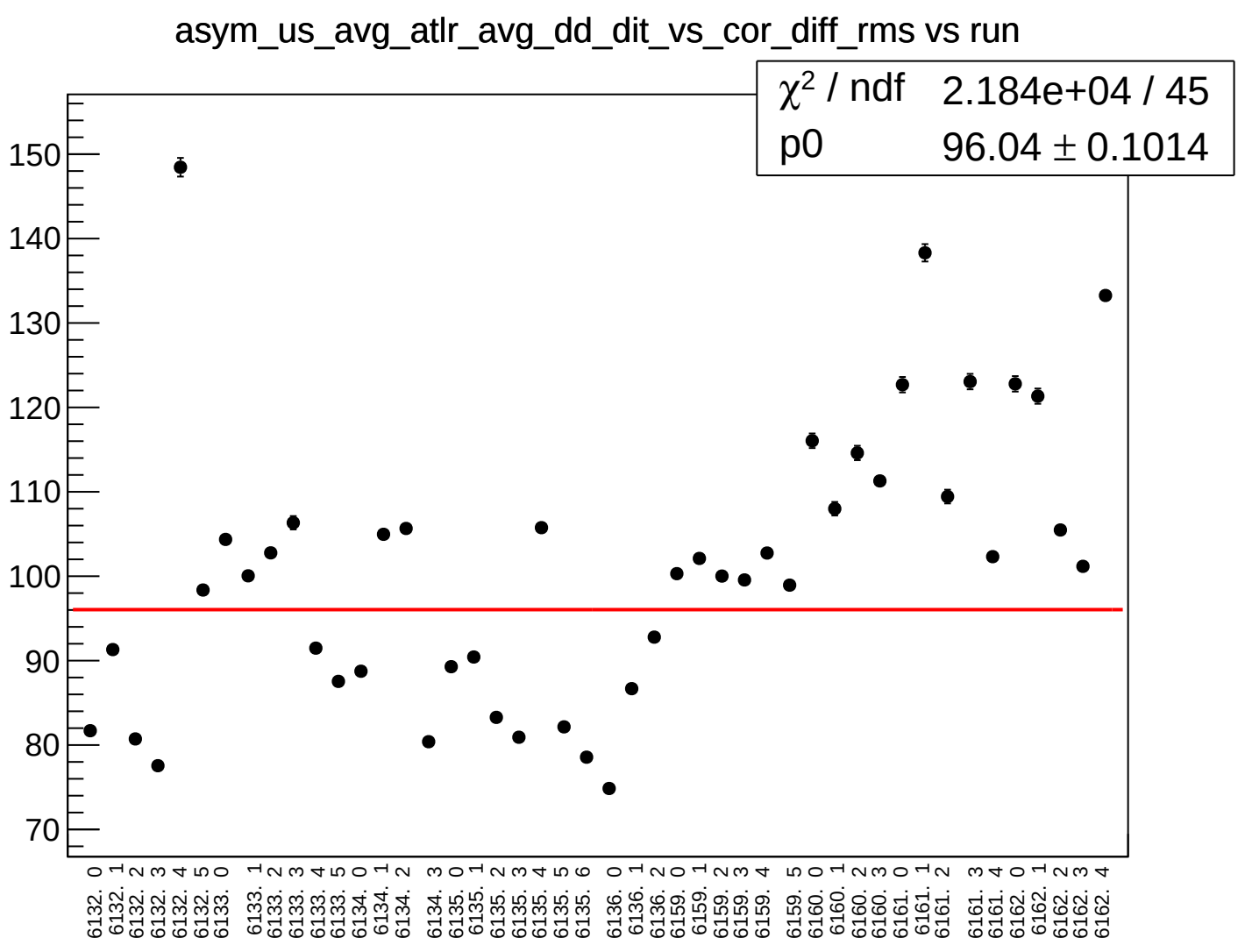

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 2.838e+04 / 45
p0 3074 ± 3.259
5500
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

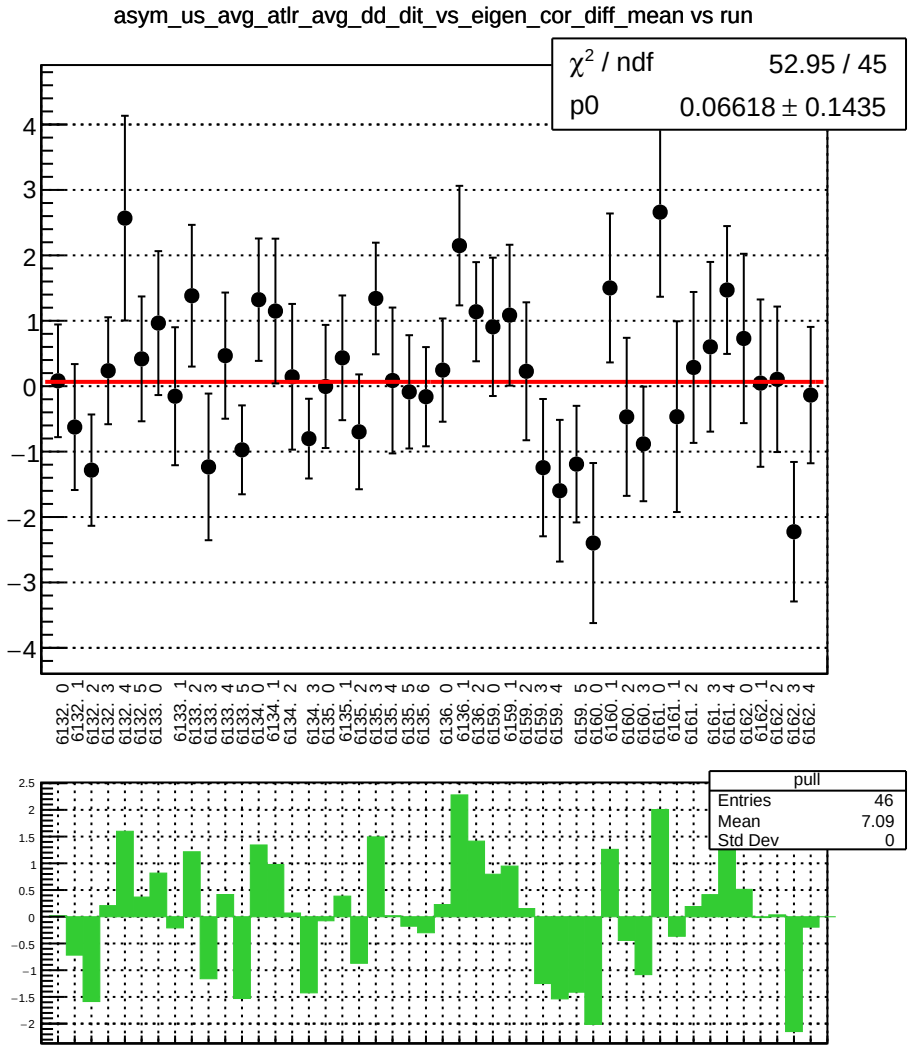

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 44 / 45
p0 −4.947e−13 ± 3.592e−13
0.01
0.008
0.006
0.004
0.002
0
−0.002
−0.004
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 24.81
Std Dev 19.24
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.1272
Std Dev 0.9697
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

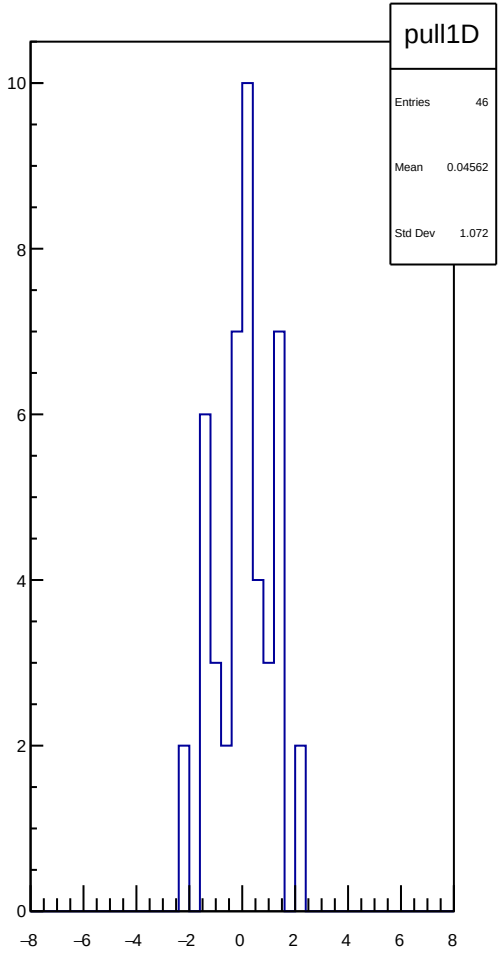

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.44e+05 / 45
p0 1.554e−10 ± 2.54e−13
0.5
0.4
0.3
0.2
0.1
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

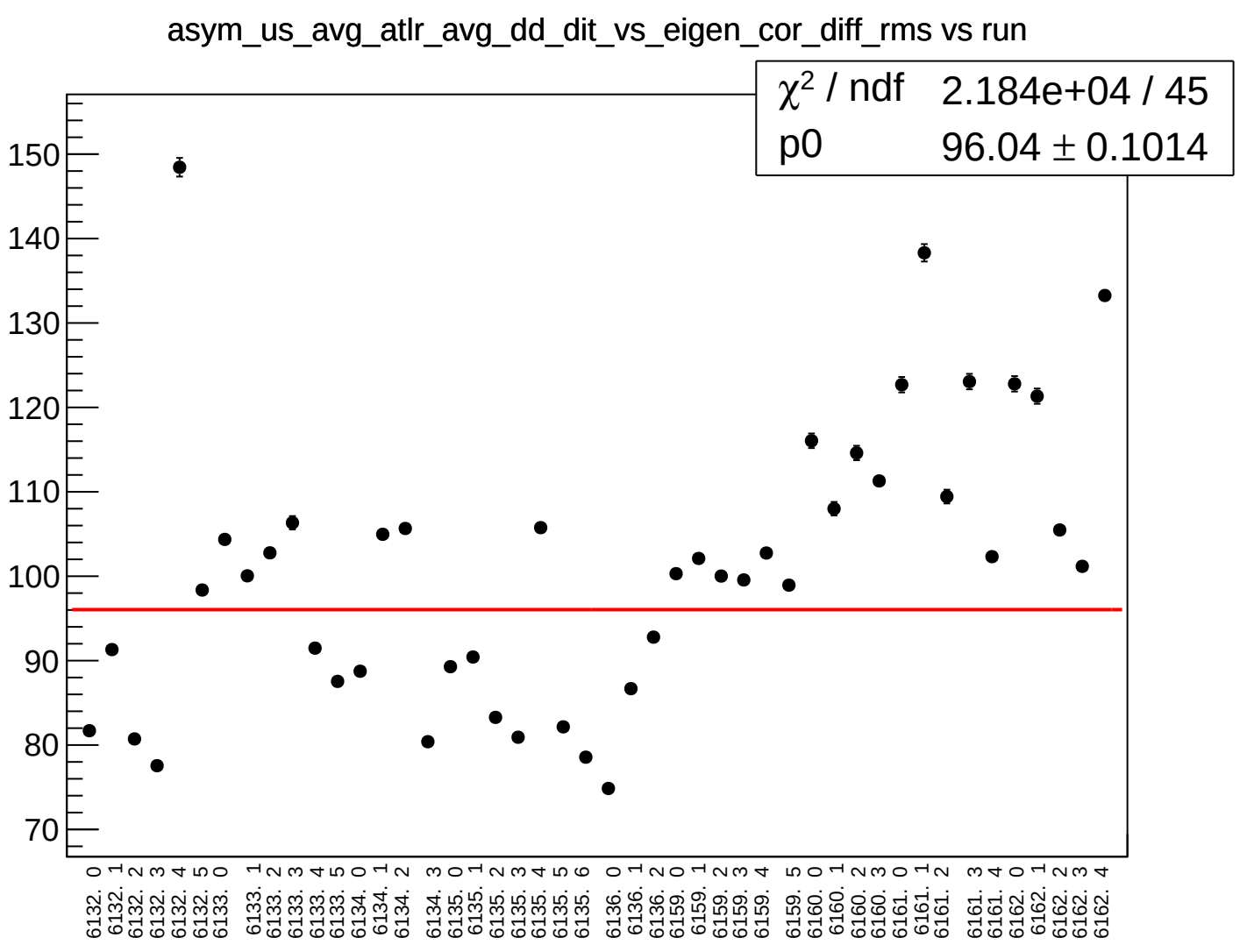

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 52.95 / 45
p0 0.06618 ± 0.1435
pull
Entries 46
Mean 7.09
Std Dev 0

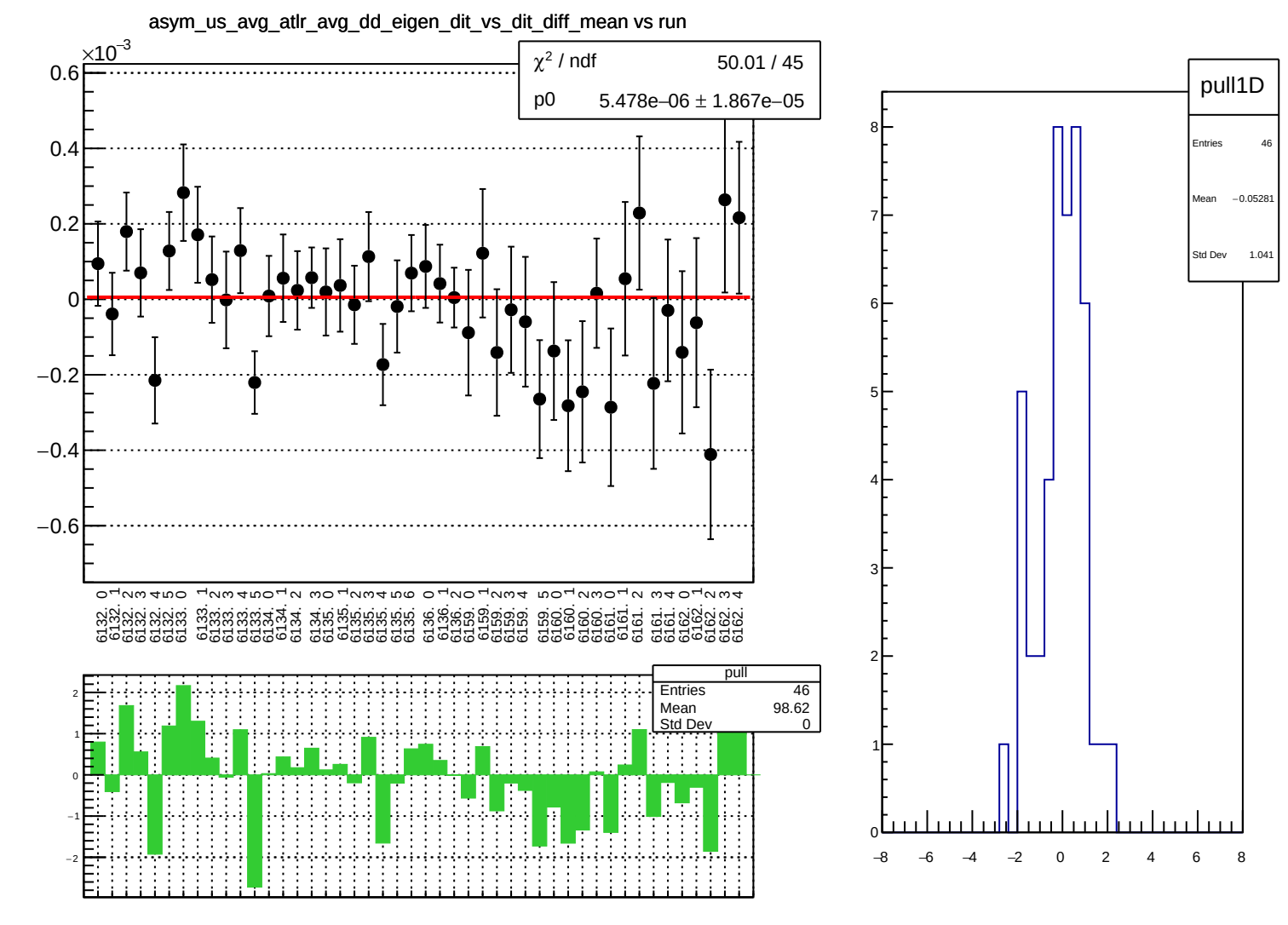

pull1D
Entries 46
Mean 0.04562
Std Dev 1.072

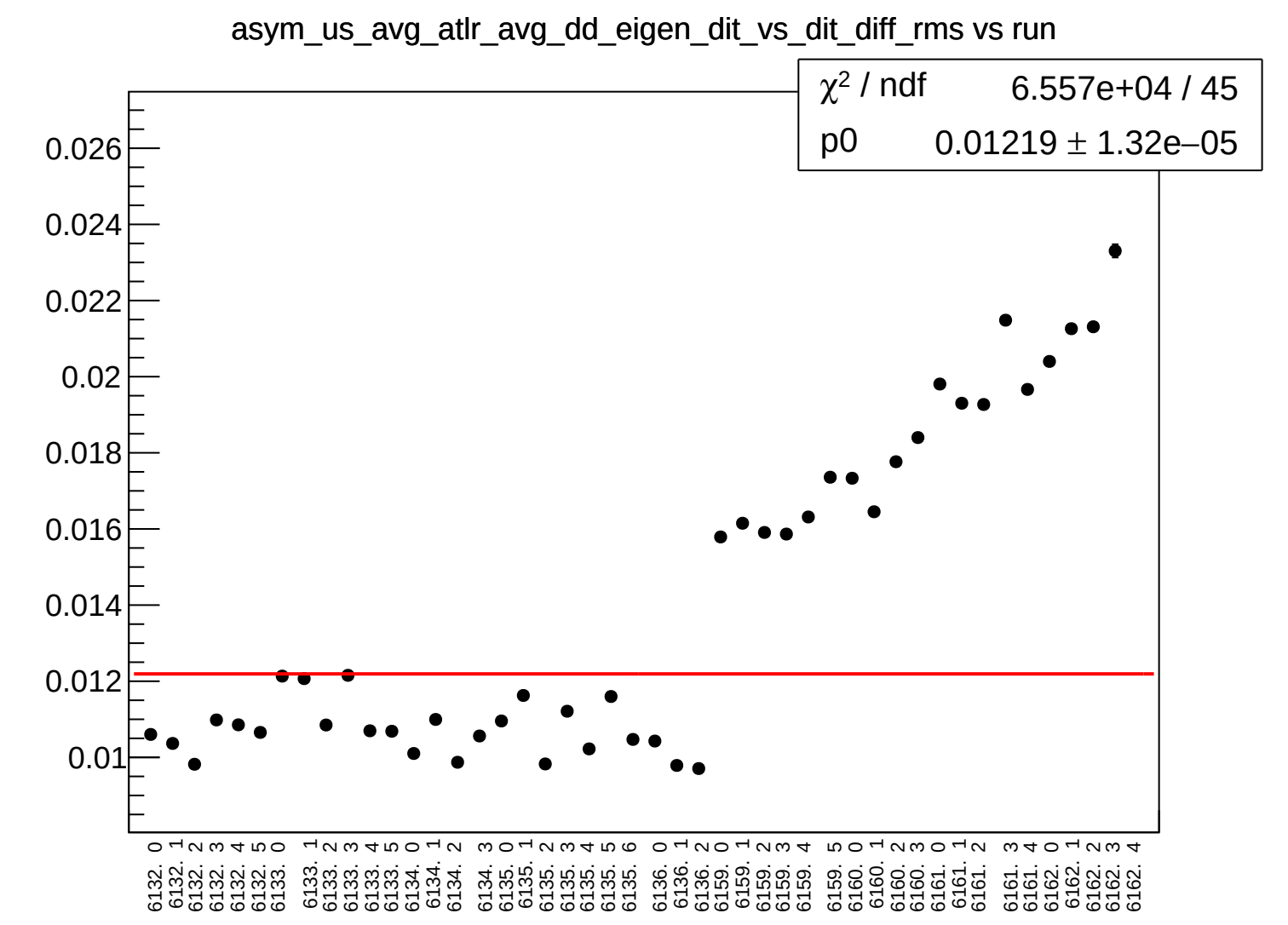

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.184e+04 / 45
p0 96.04 ± 0.1014
150
140
130
120
110
100
90
80
70
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

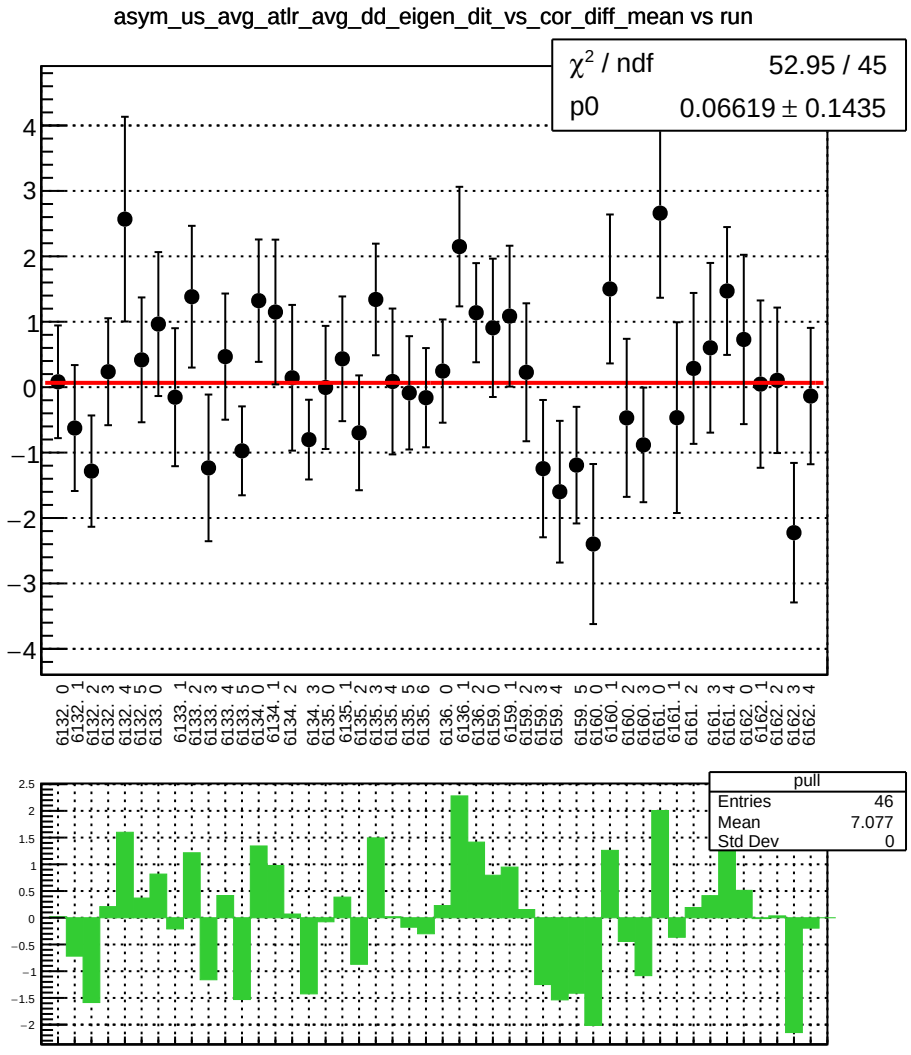

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.95 / 45
p0 0.06618 ± 0.1435
pull
Entries 46
Mean 7.09
Std Dev 0

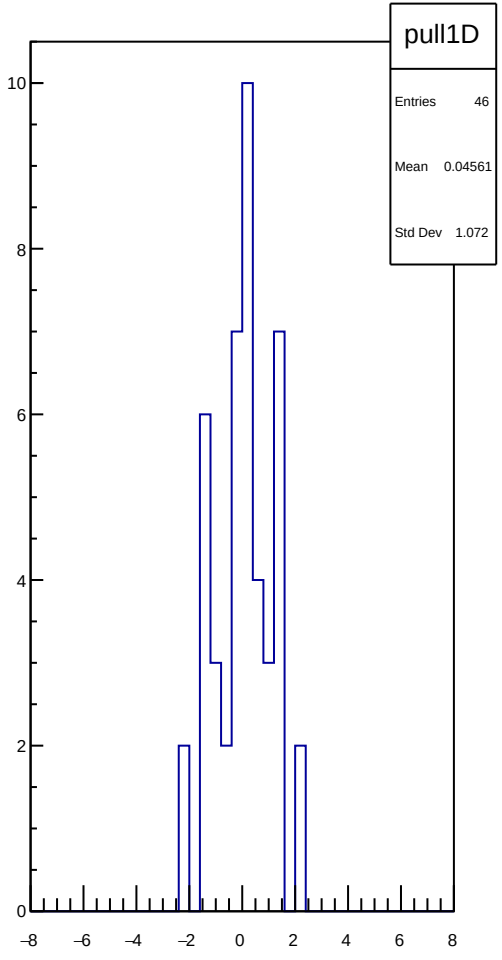

pull1D
Entries 46
Mean 0.04562
Std Dev 1.072

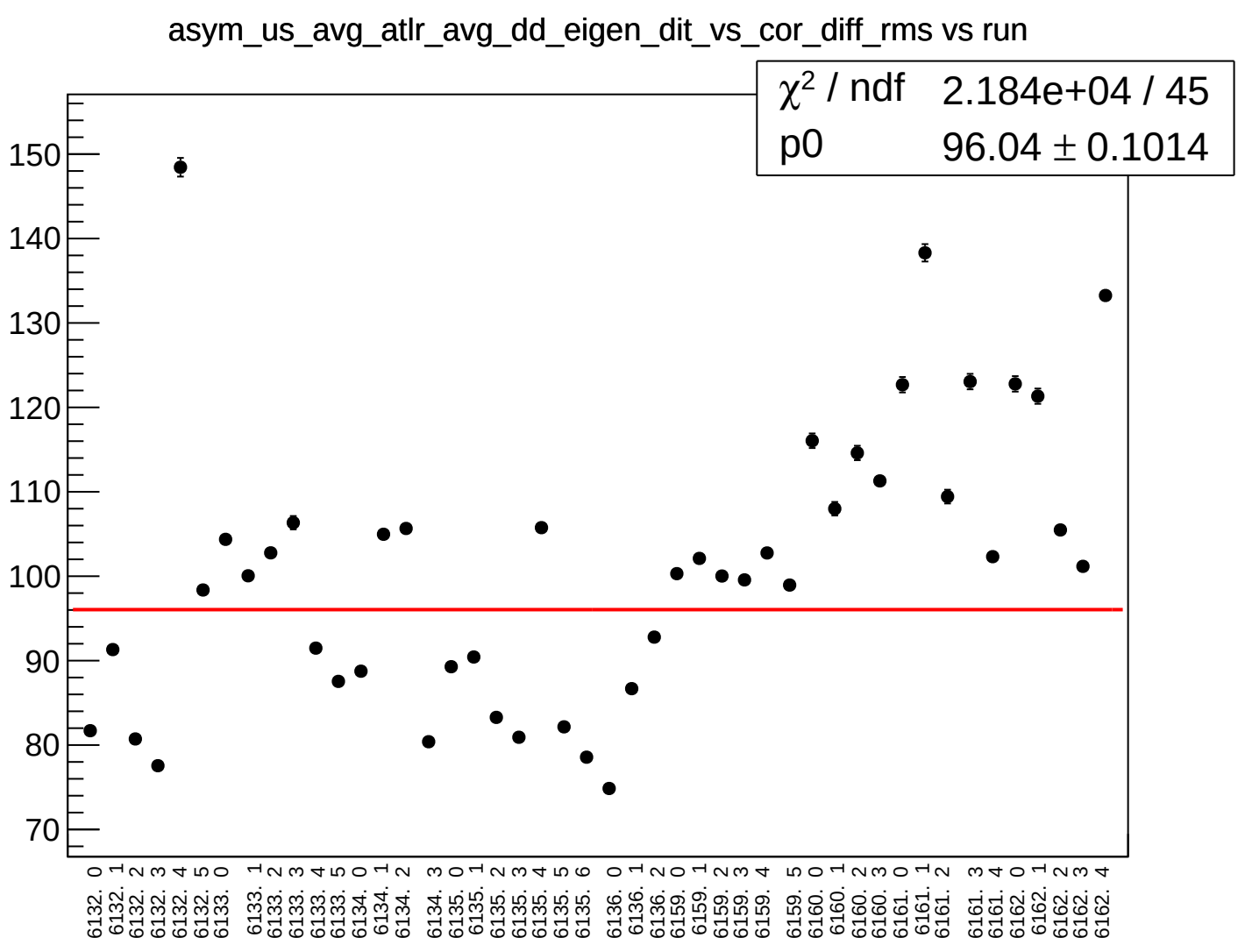

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.184e+04 / 45
p0 96.04 ± 0.1014
150
140
130
120
110
100
90
80
70
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

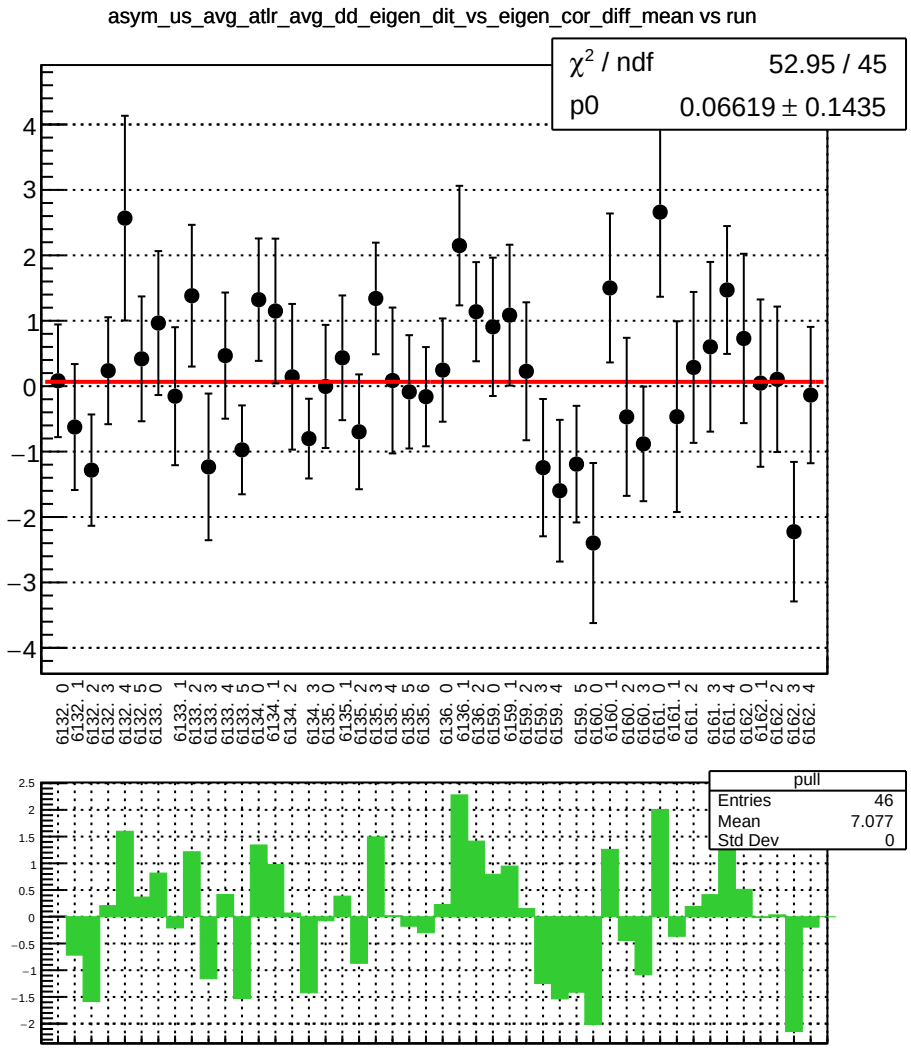

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 50.01 / 45
p0 5.478e−06 ± 1.867e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 98.62
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.05281
Std Dev 1.041
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

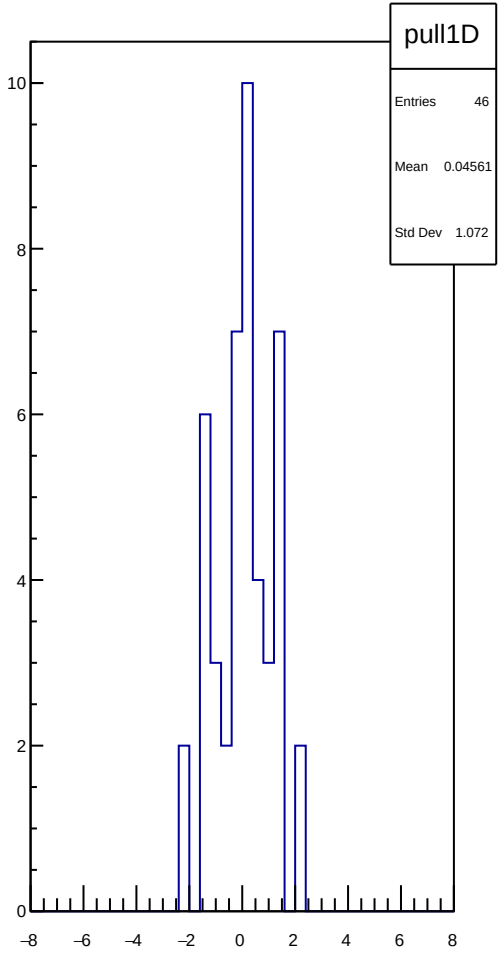

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.557e+04 / 45
p0 0.01219 ± 1.32e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

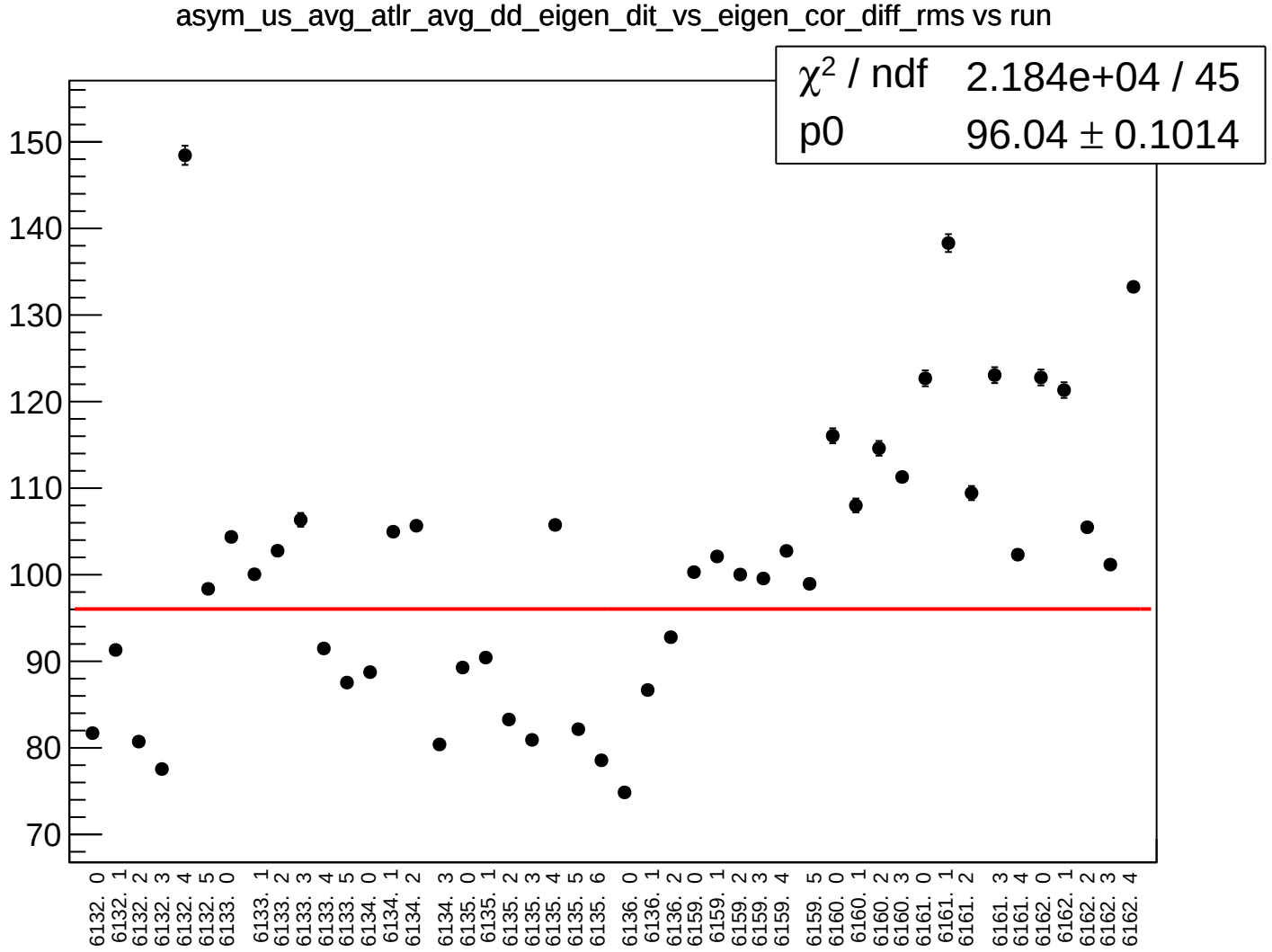

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 52.95 / 45
p0 0.06619 ± 0.1435
pull
Entries 46
Mean 7.077
Std Dev 0

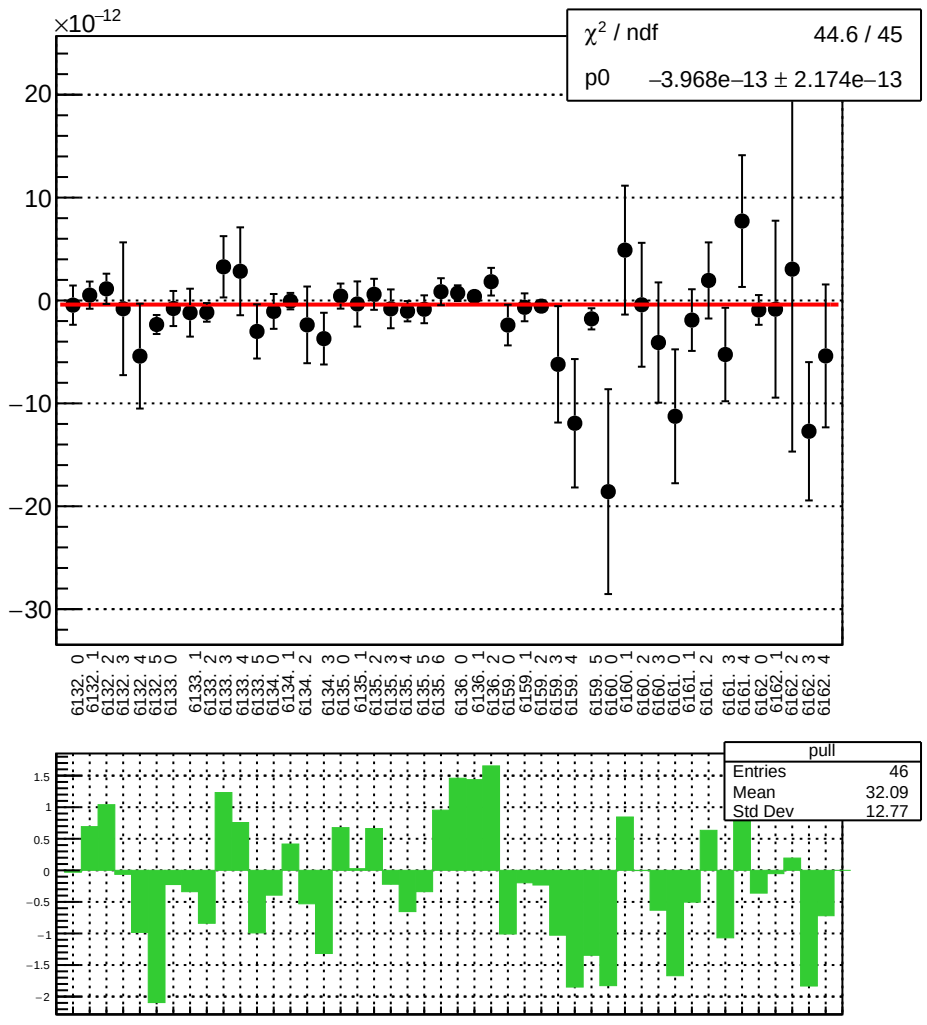

pull1D
Entries 46
Mean 0.04561
Std Dev 1.072

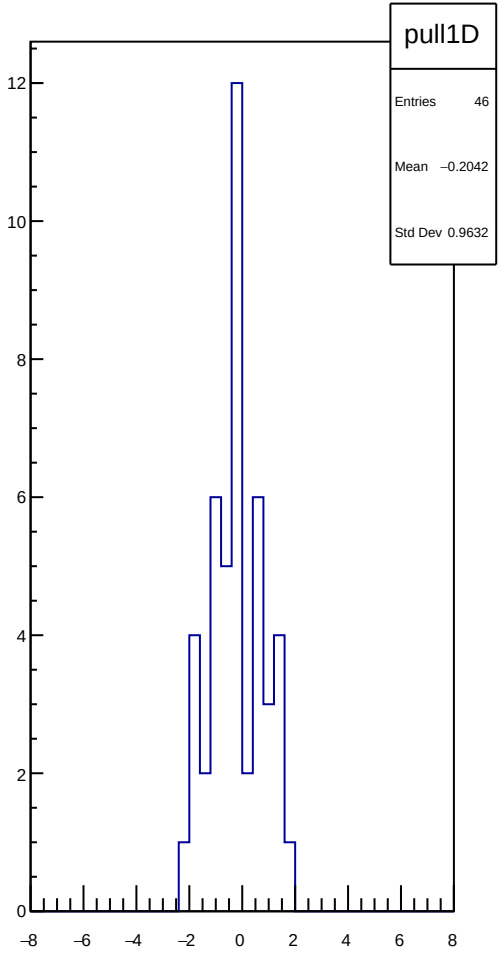

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.184e+04 / 45
p0 96.04 ± 0.1014
150
140
130
120
110
100
90
80
70
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

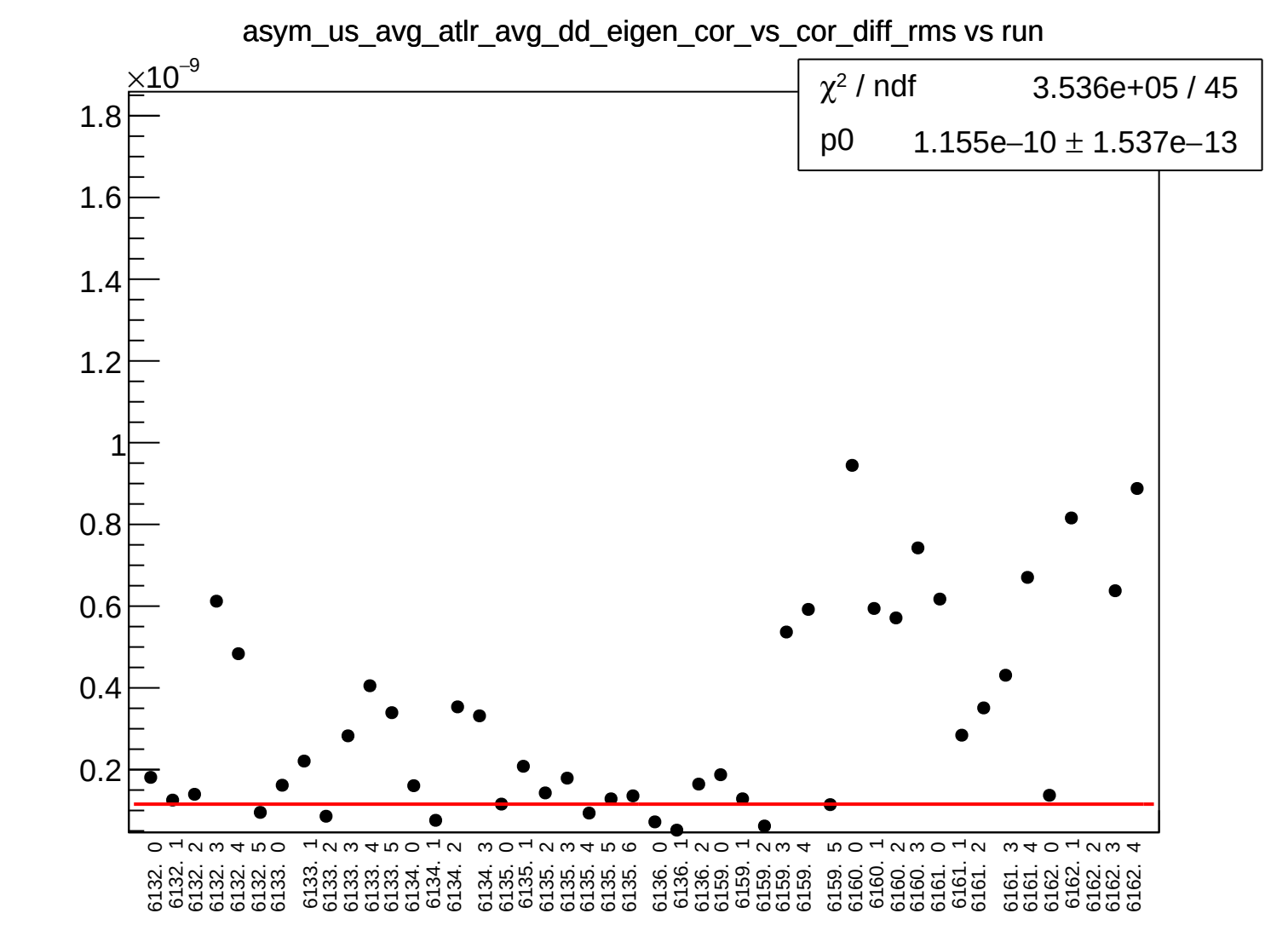

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.95 / 45
p0 0.06619 ± 0.1435
pull
Entries 46
Mean 7.077
Std Dev 0

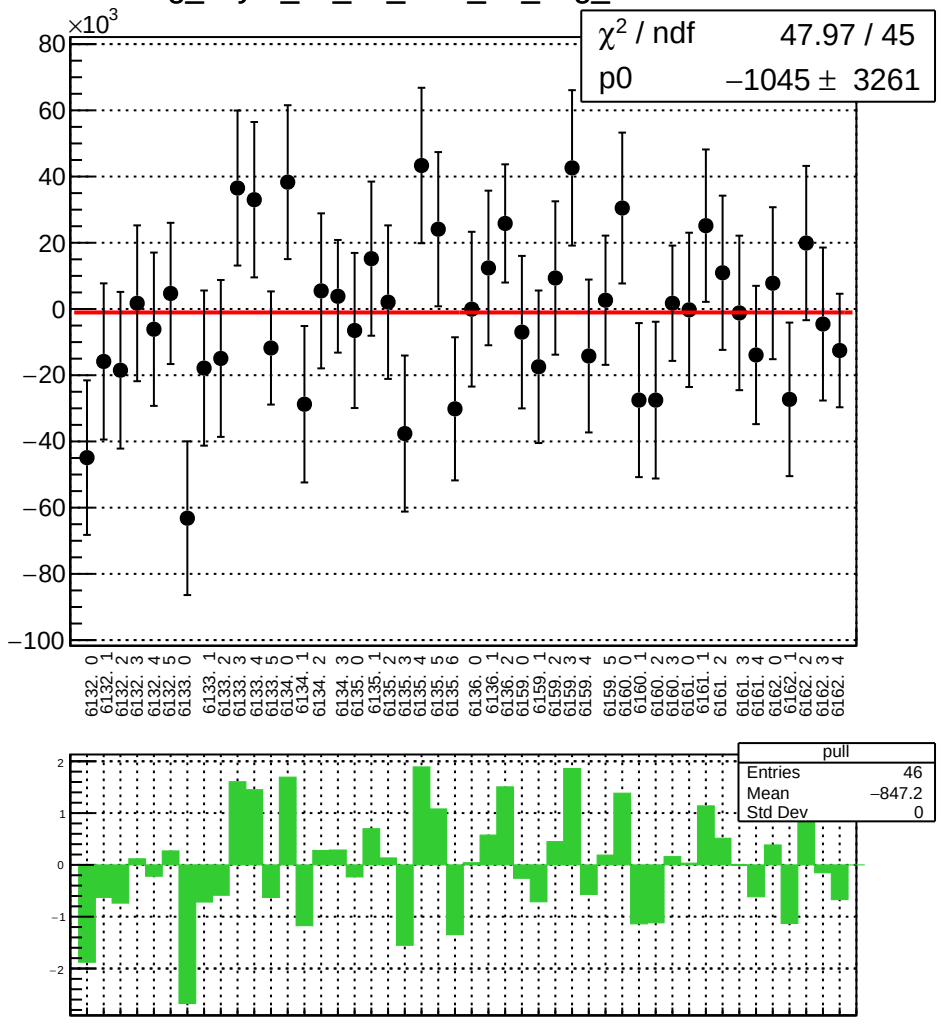

pull1D
Entries 46
Mean 0.04561
Std Dev 1.072

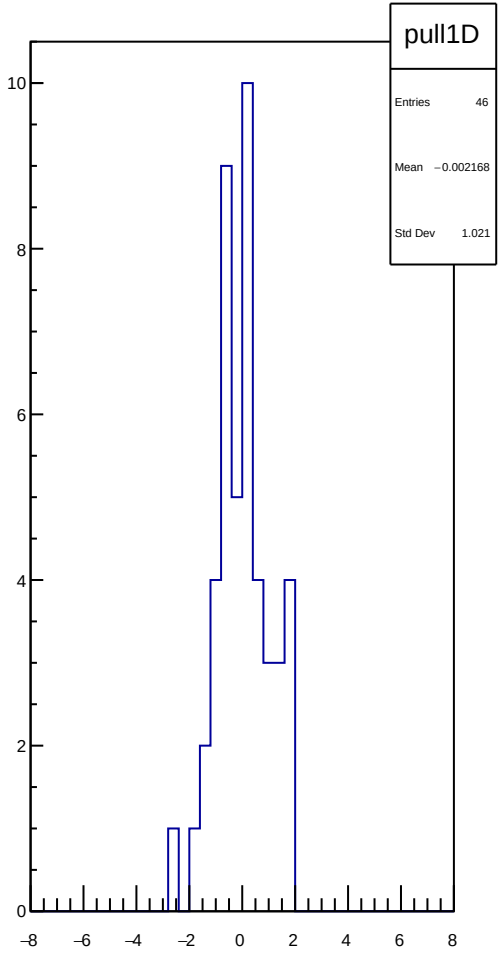

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.184e+04 / 45
p0 96.04 ± 0.1014
150
140
130
120
110
100
90
80
70
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

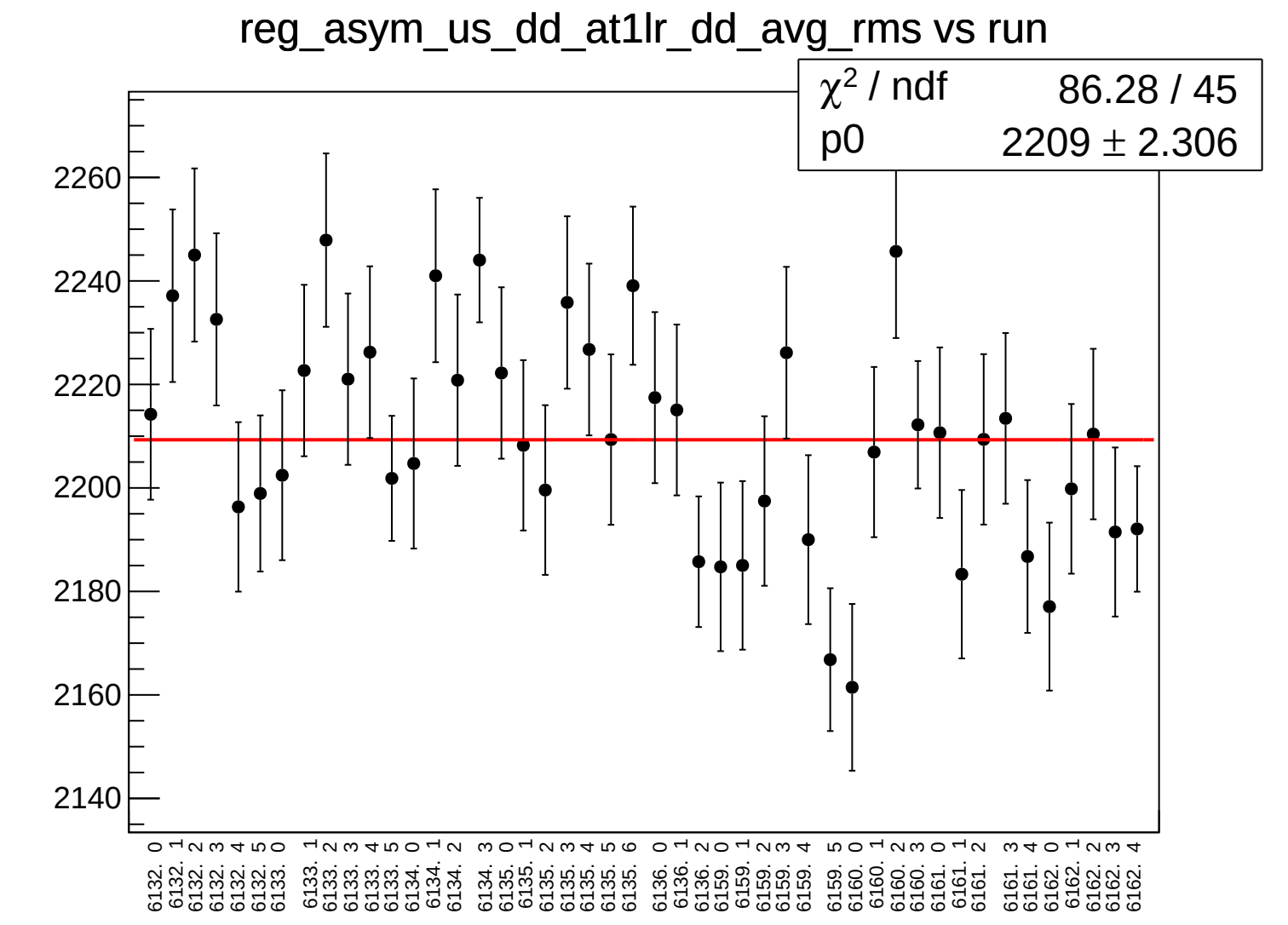

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.6 / 45
p0 −3.968e−13 ± 2.174e−13
pull
Entries 46
Mean 32.09
Std Dev 12.77

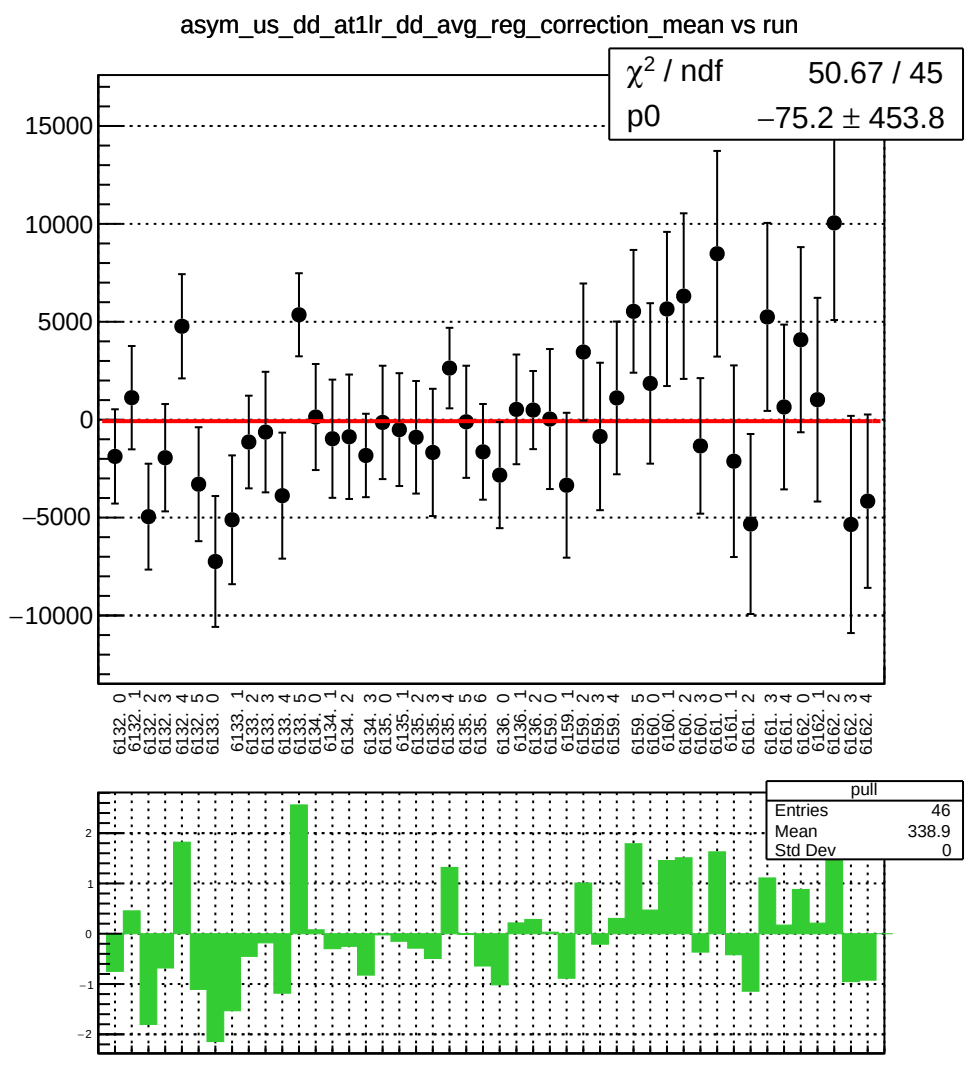

pull1D
Entries 46
Mean −0.2042
Std Dev 0.9632

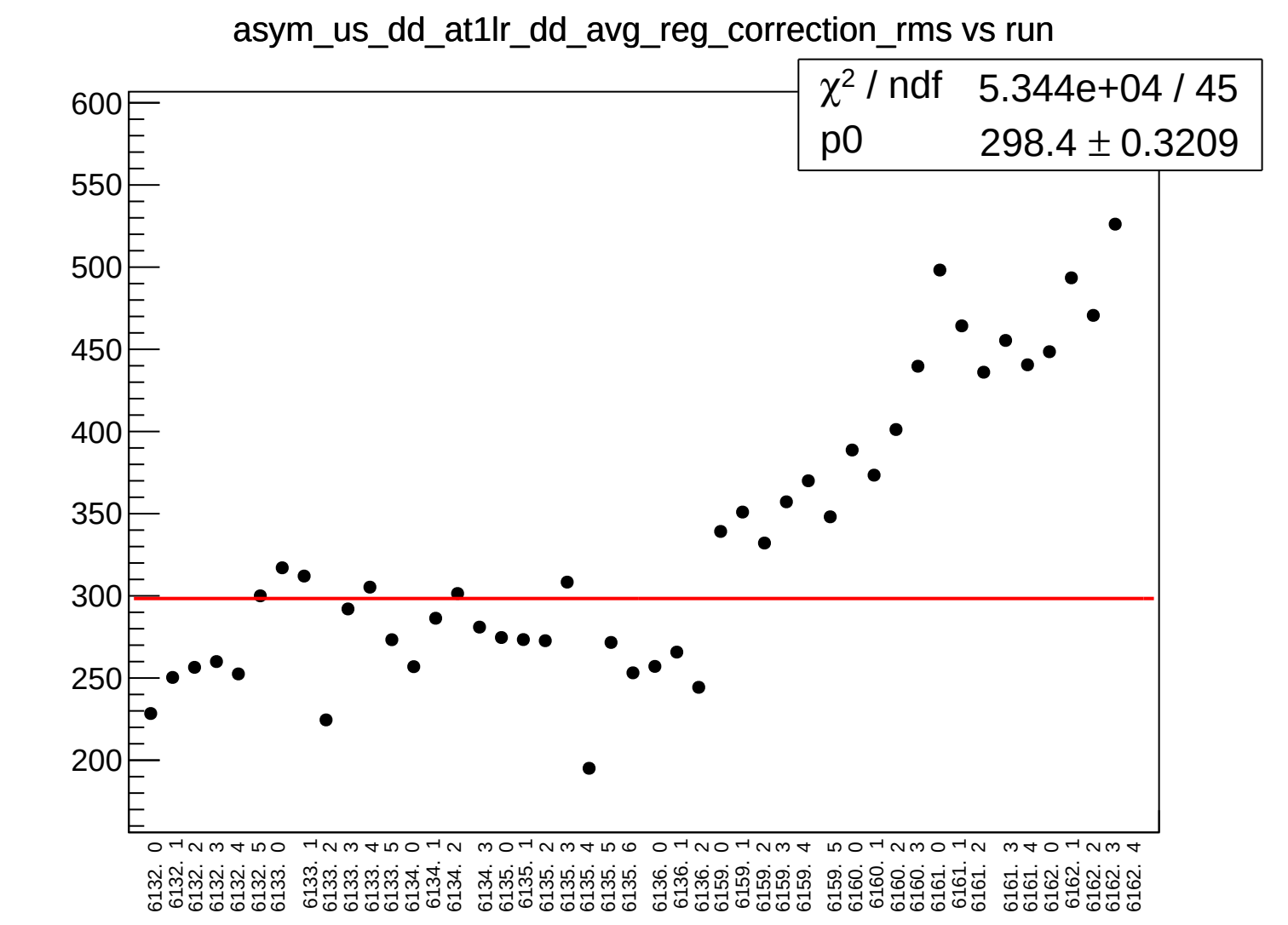

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.536e+05 / 45
p0 1.155e−10 ± 1.537e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 47.97 / 45
p0 −1045 ± 3261
pull
Entries 46
Mean −847.2
Std Dev 0


pull1D
Entries 46
Mean −0.002168
Std Dev 1.021


reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 86.28 / 45
p0 2209 ± 2.306
2260
2240
2220
2200
2180
2160
2140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 50.67 / 45
p0 −75.2 ± 453.8
15000
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 338.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.0137
Std Dev 1.049
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 5.344e+04 / 45
p0 298.4 ± 0.3209
600
550
500
450
400
350
300
250
200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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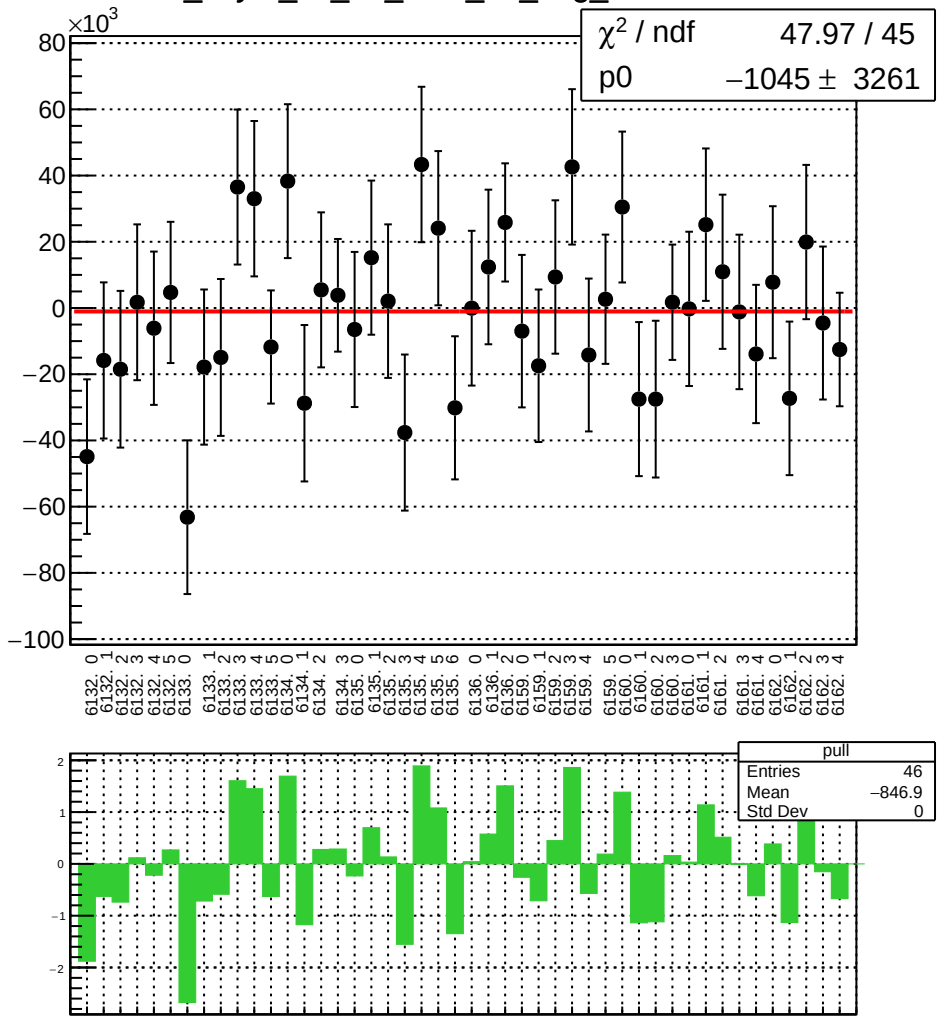
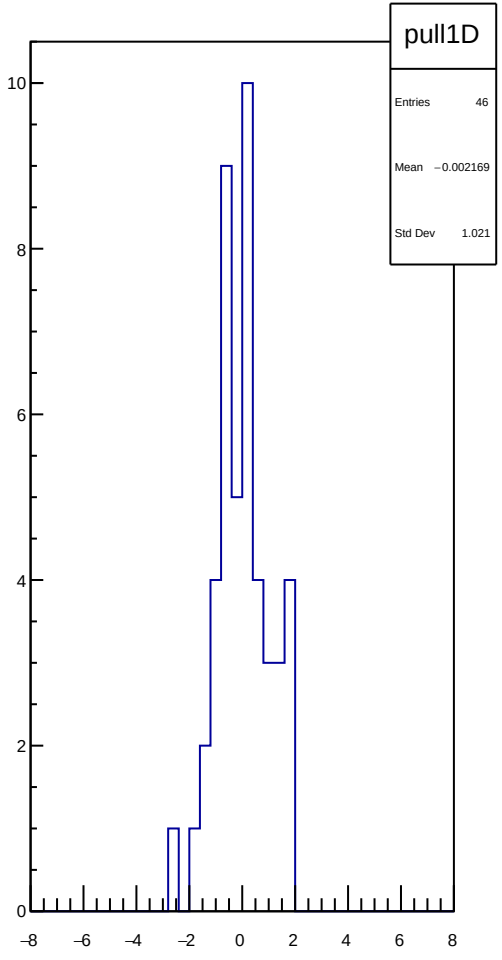
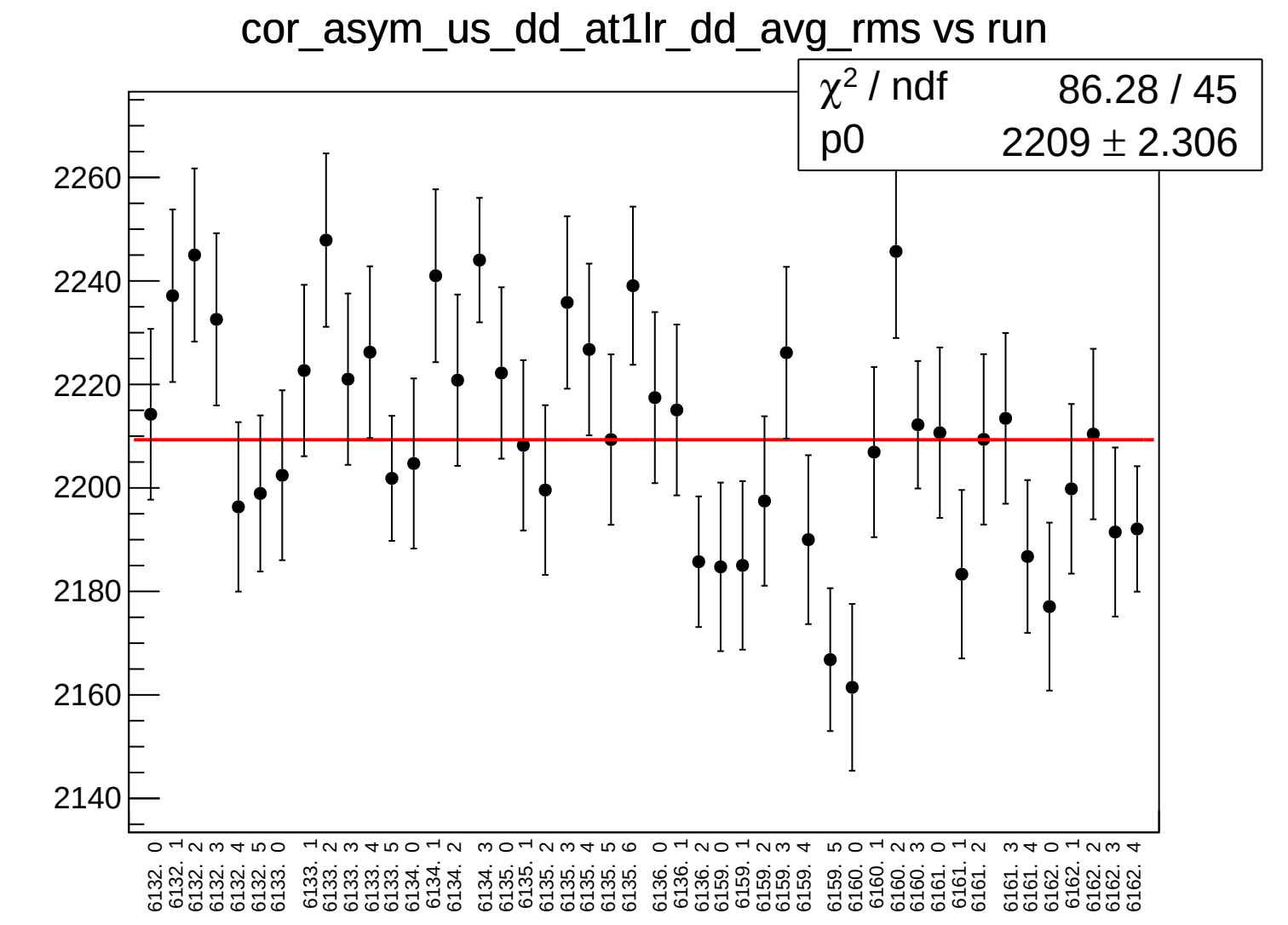
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 47.97 / 45
p0 −1045 ± 3261
pull
Entries 46
Mean −846.9
Std Dev 0


pull1D
Entries 46
Mean −0.002169
Std Dev 1.021


cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 86.28 / 45
p0 2209 ± 2.306
2260
2240
2220
2200
2180
2160
2140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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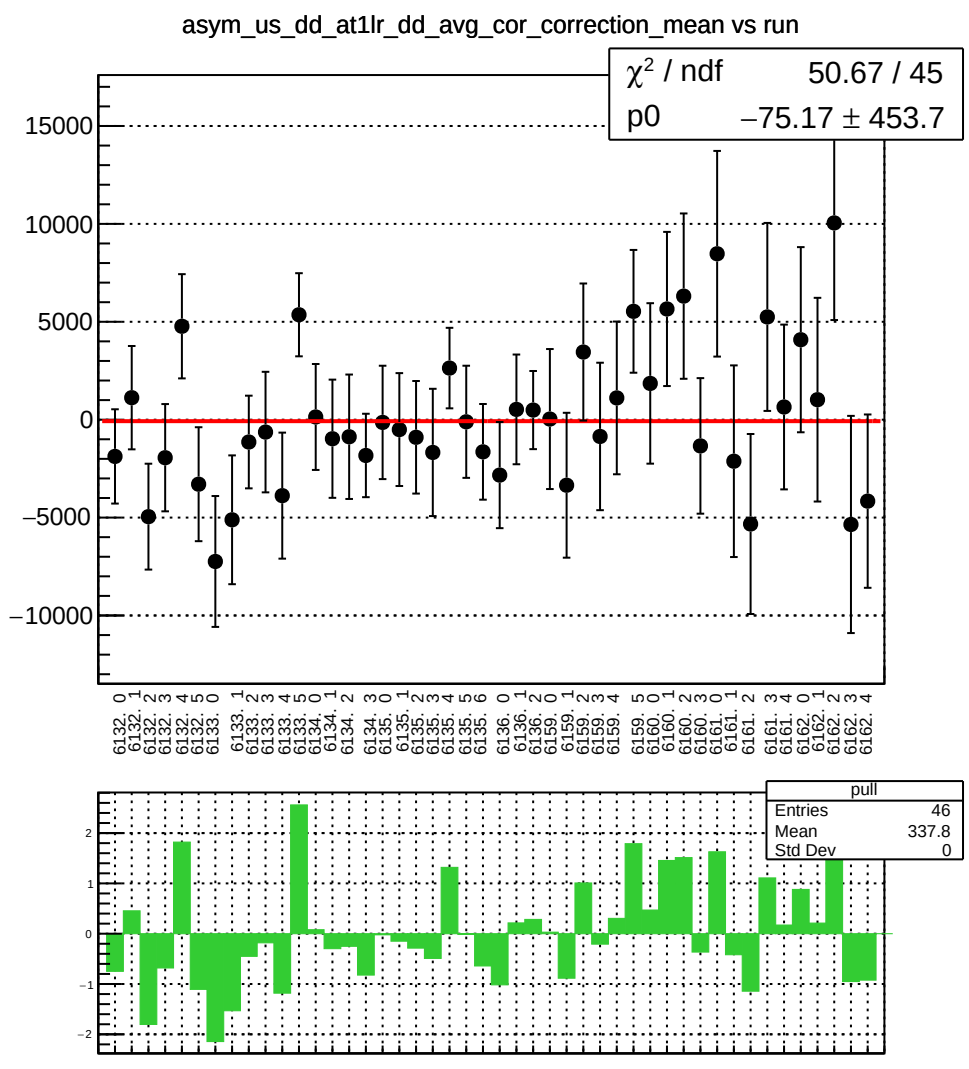
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 50.67 / 45
p0 −75.17 ± 453.7
15000
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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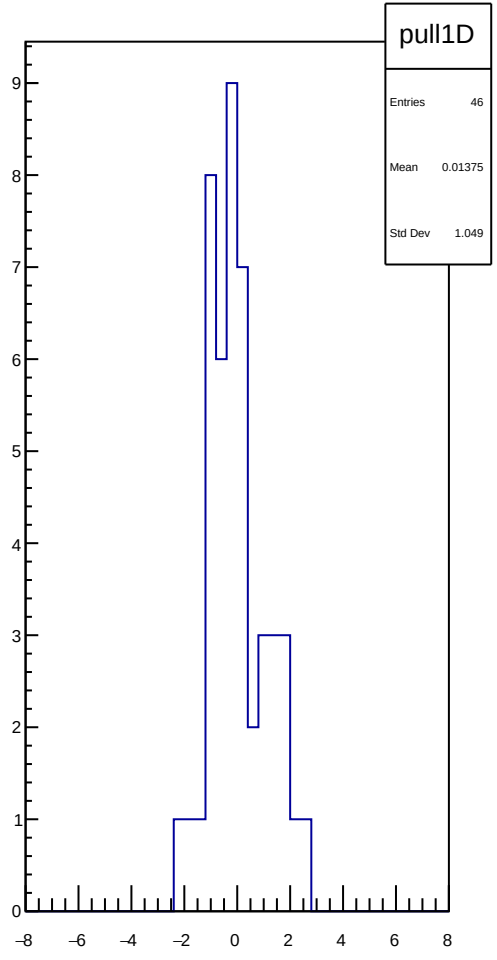
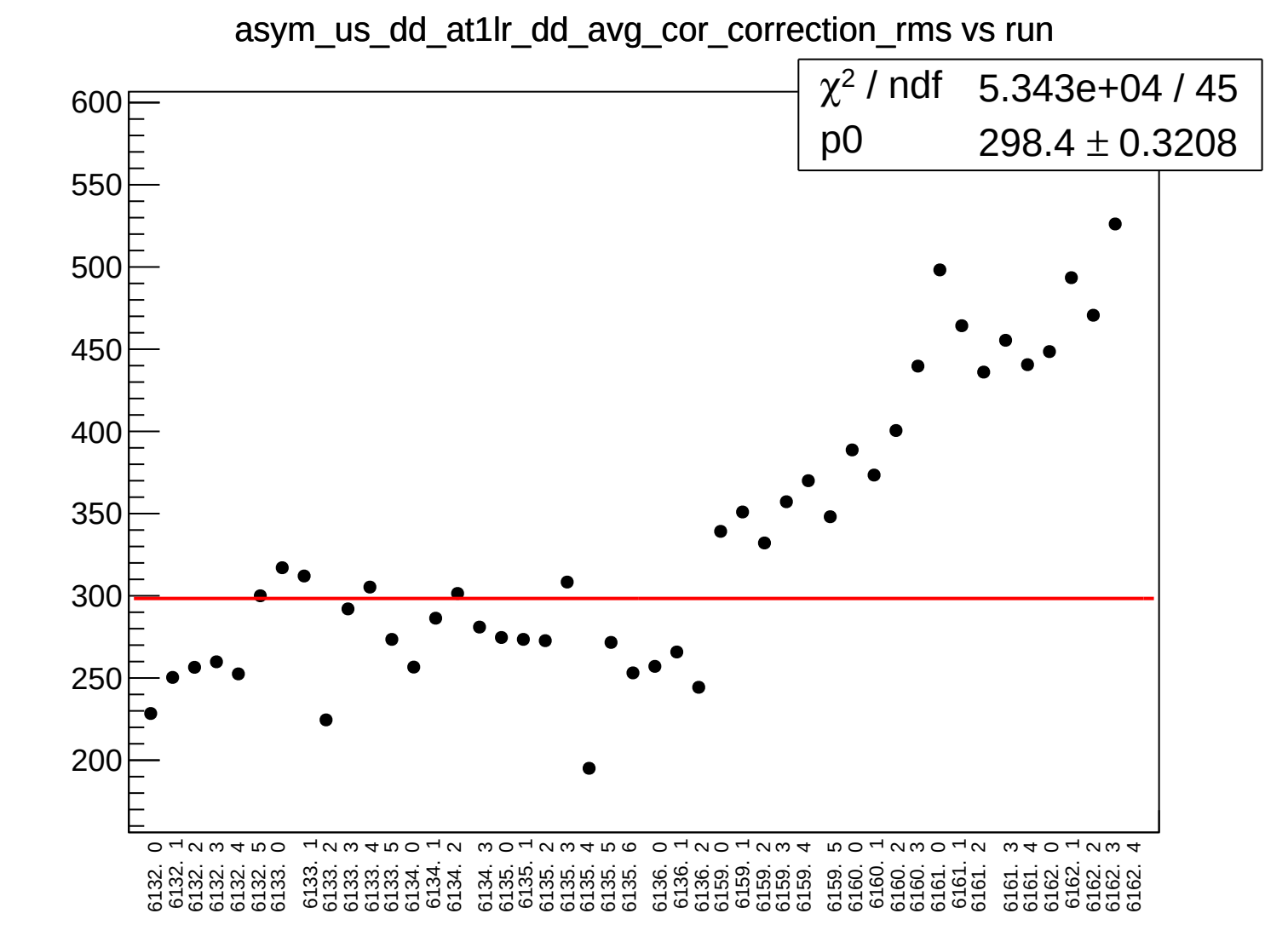
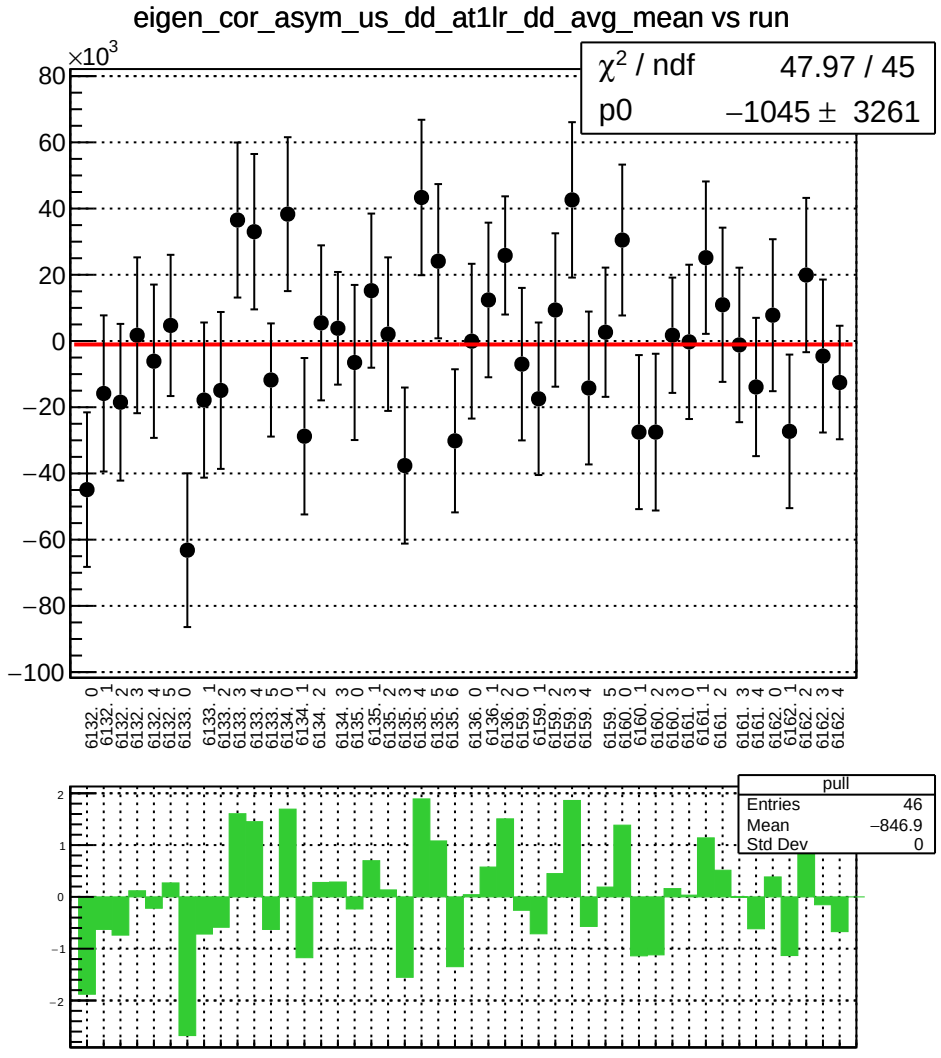
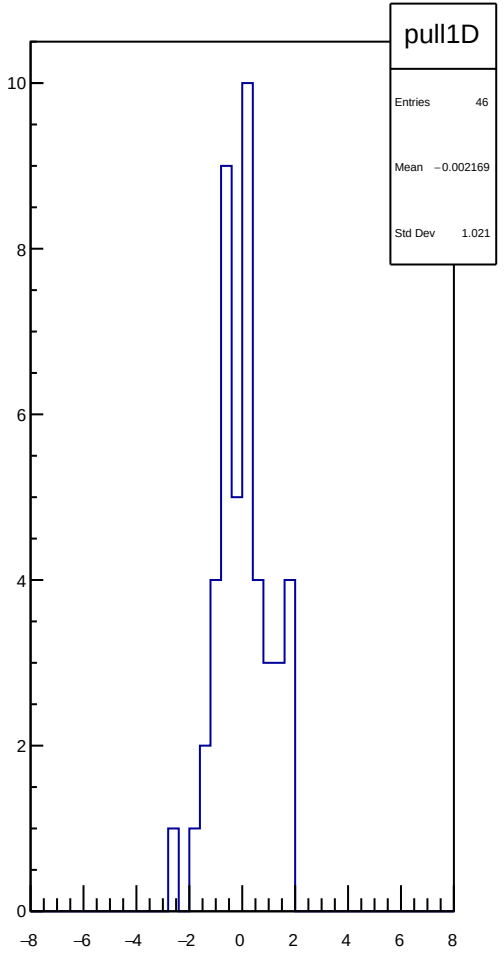
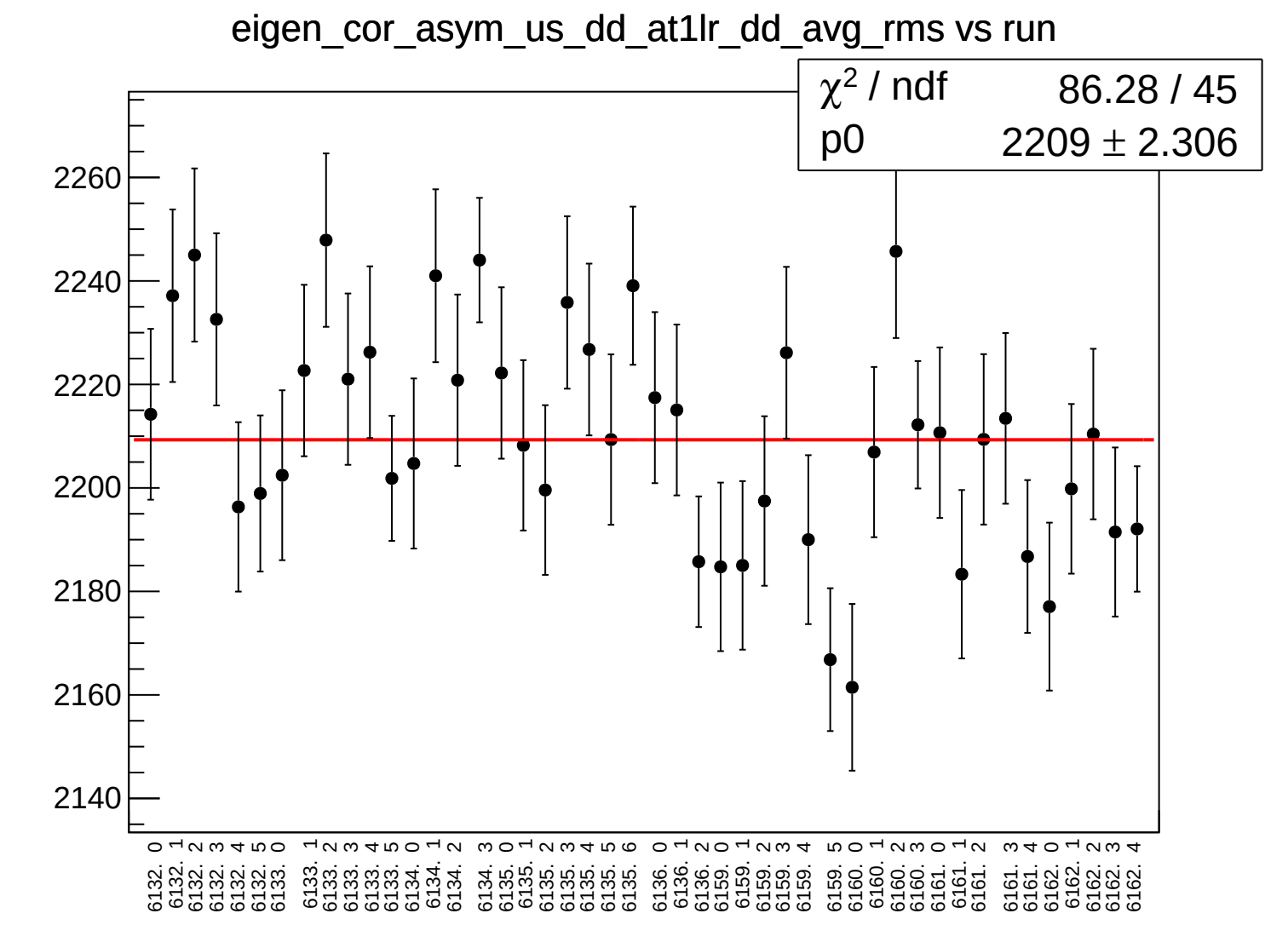
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 337.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.01375
Std Dev 1.049
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 5.343e+04 / 45
p0 298.4 ± 0.3208
600
550
500
450
400
350
300
250
200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 47.97 / 45
p0 −1045 ± 3261
pull
Entries 46
Mean −846.9
Std Dev 0


pull1D
Entries 46
Mean −0.002169
Std Dev 1.021


eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 86.28 / 45
p0 2209 ± 2.306
2260
2240
2220
2200
2180
2160
2140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
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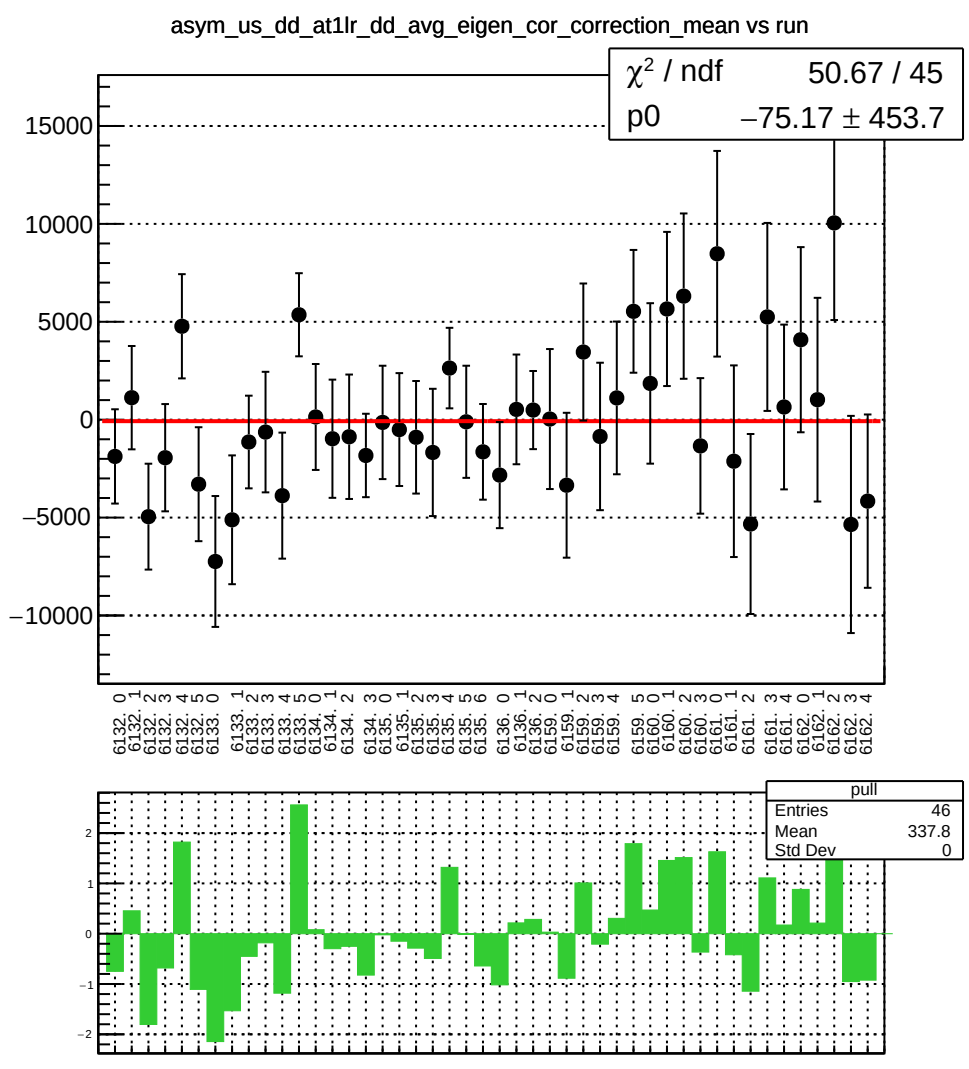
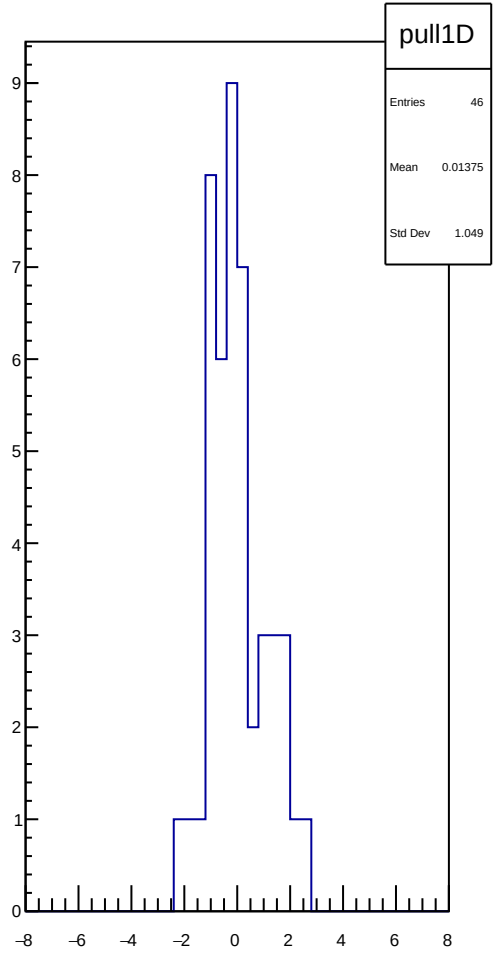
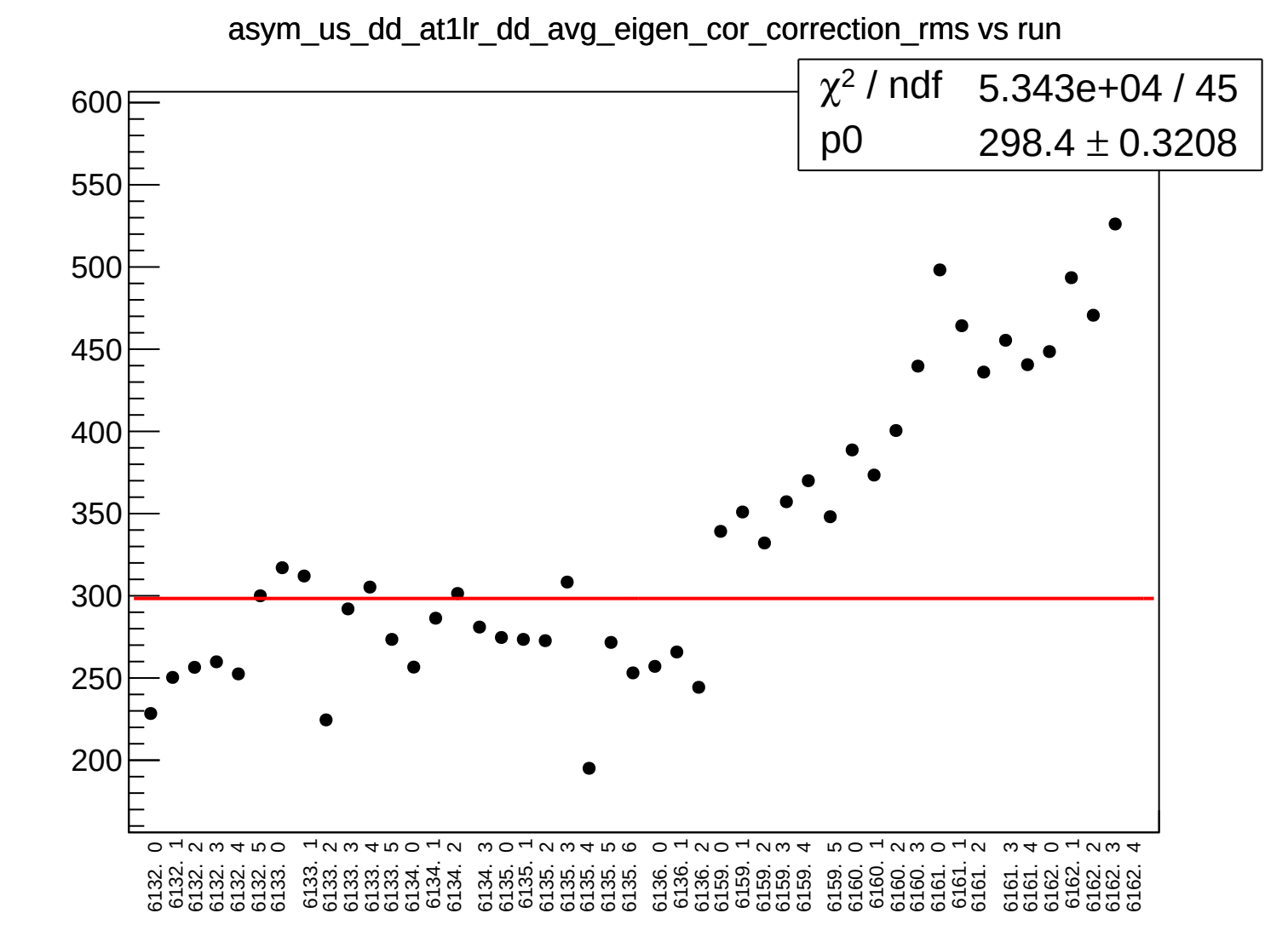
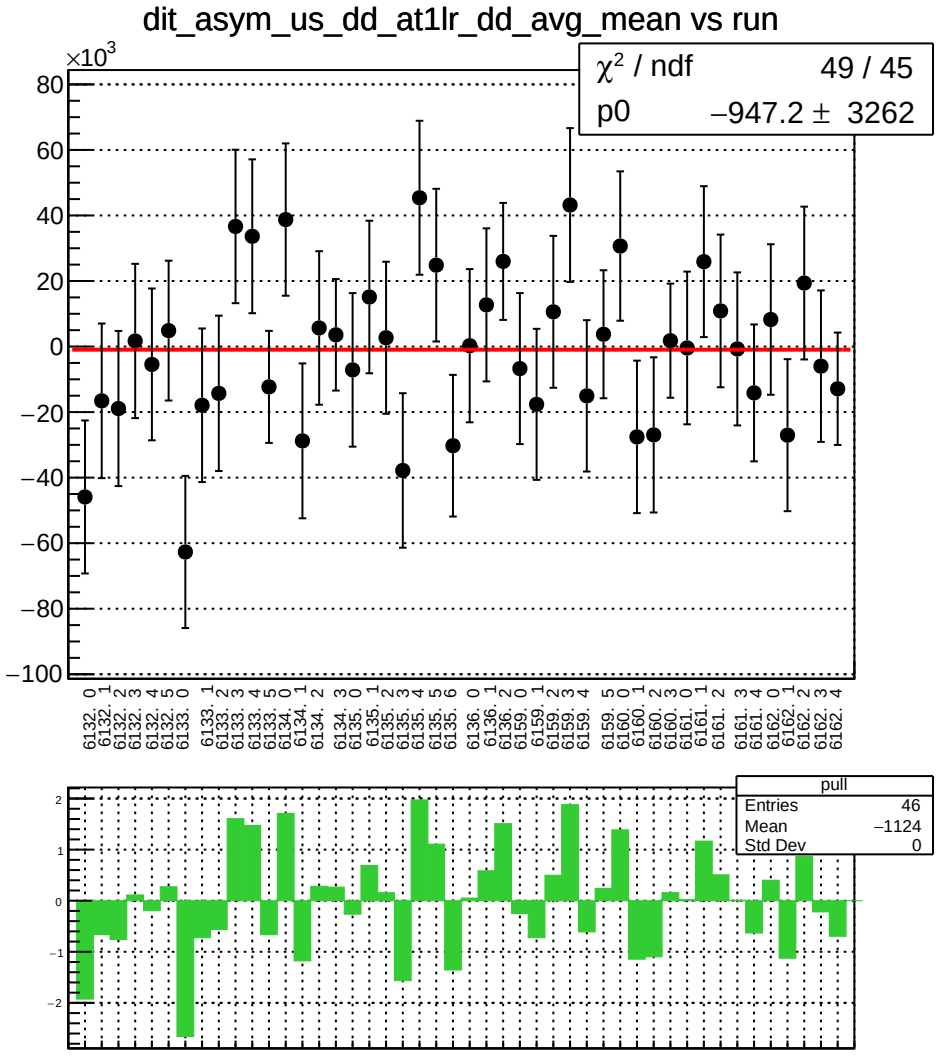
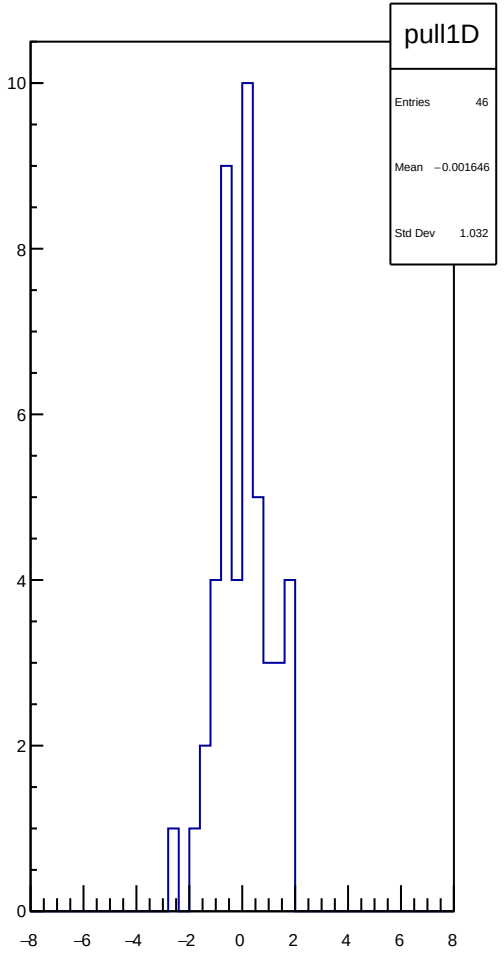
6162. 2
6162. 3
6162. 4

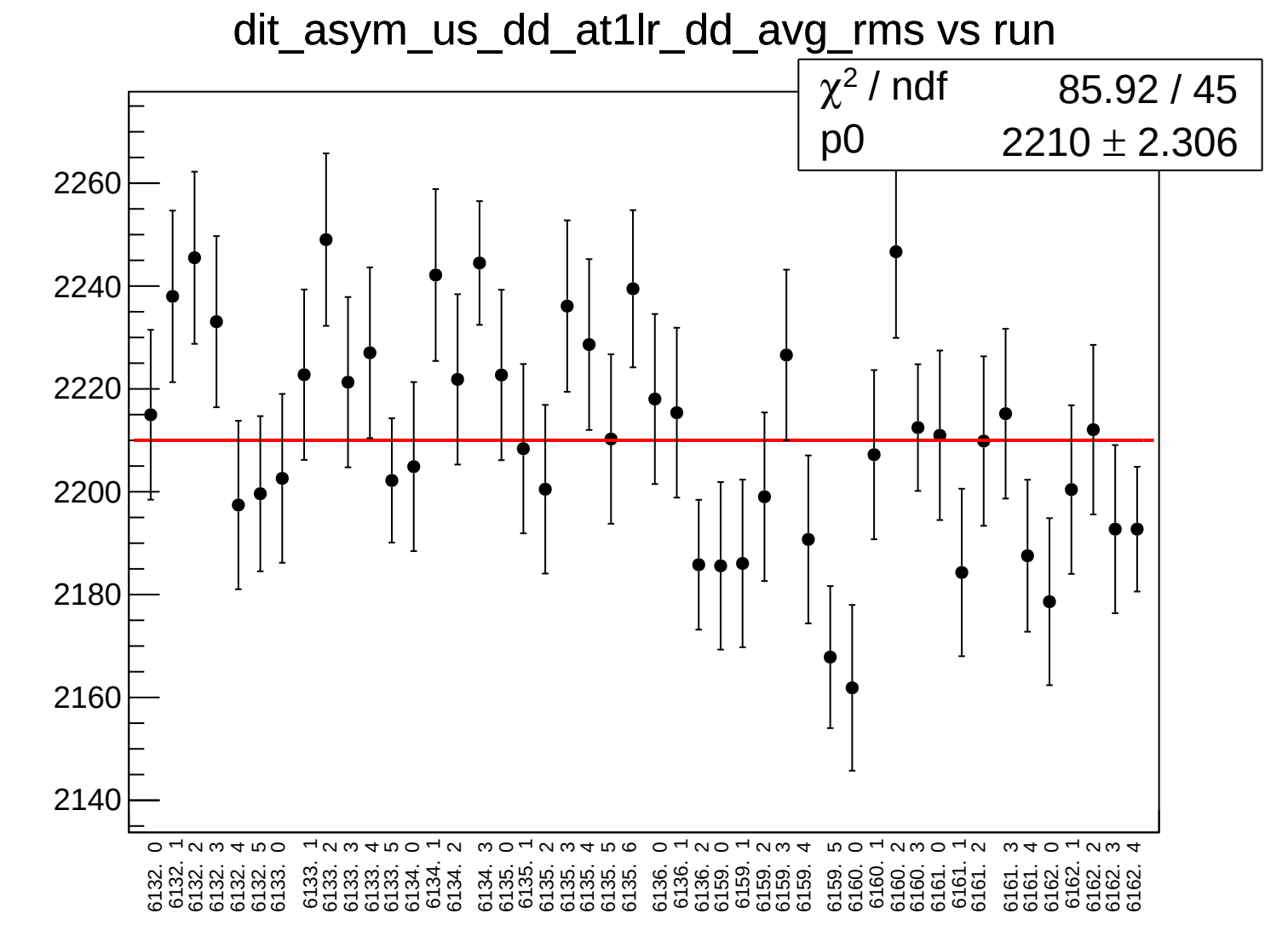

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 50.67 / 45
p0 −75.17 ± 453.7
15000
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 337.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.01375
Std Dev 1.049
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.343e+04 / 45
p0 298.4 ± 0.3208
600
550
500
450
400
350
300
250
200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 49 / 45
p0 −947.2 ± 3262
pull
Entries 46
Mean −1124
Std Dev 0


pull1D
Entries 46
Mean −0.001646
Std Dev 1.032


dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 85.92 / 45
p0 2210 ± 2.306
2260
2240
2220
2200
2180
2160
2140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
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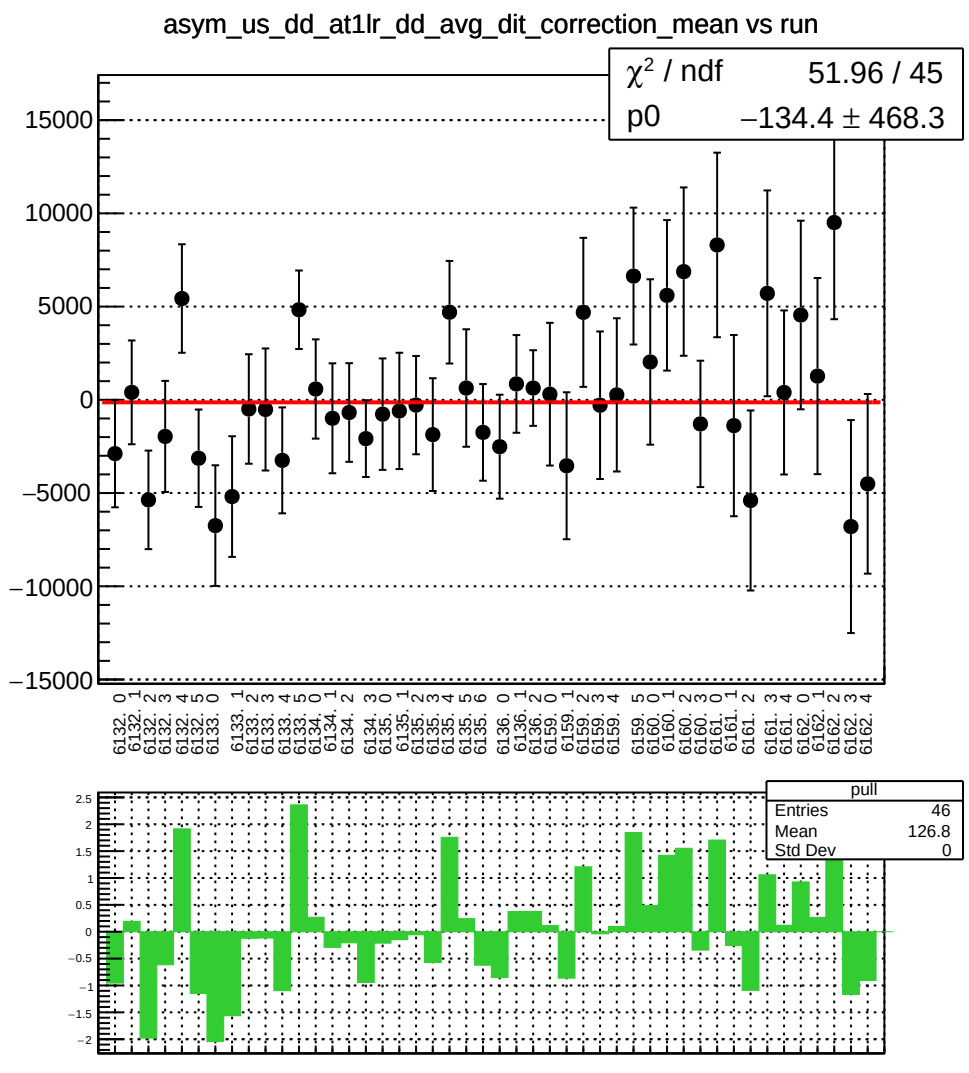
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 51.96 / 45
p0 −134.4 ± 468.3
15000
10000
5000
0
−5000
−10000
−15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
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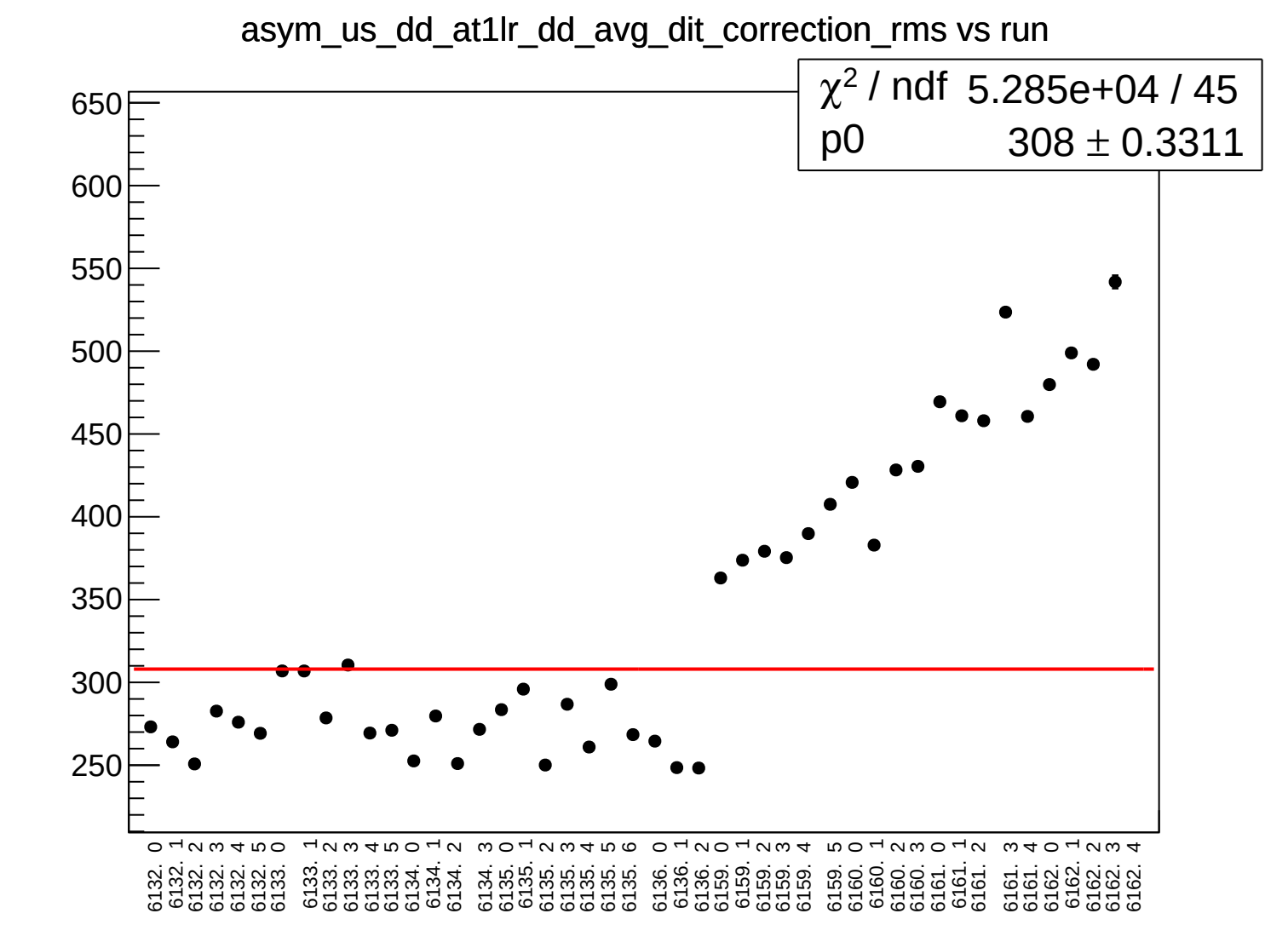
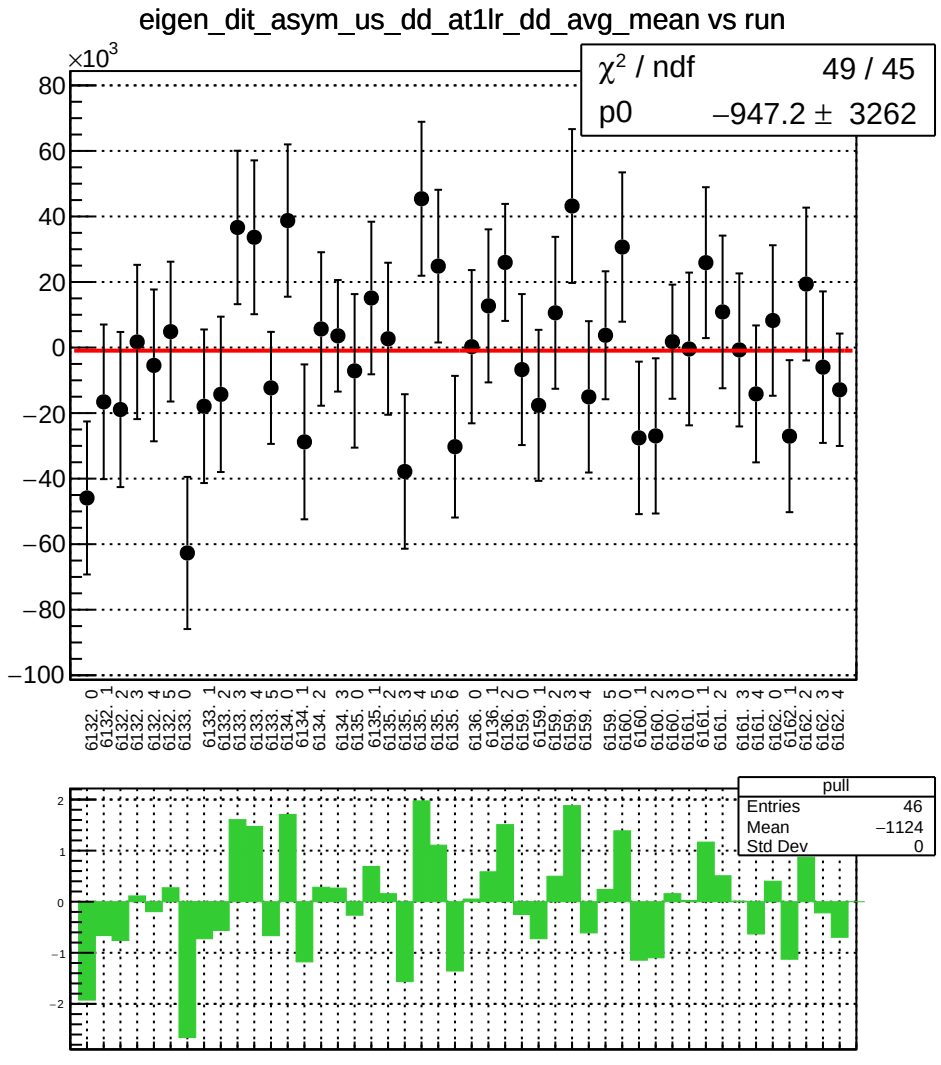
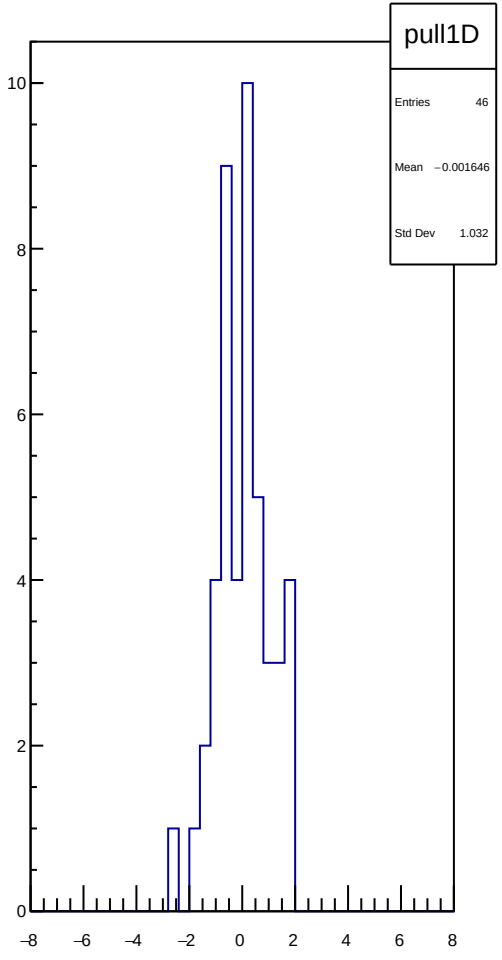
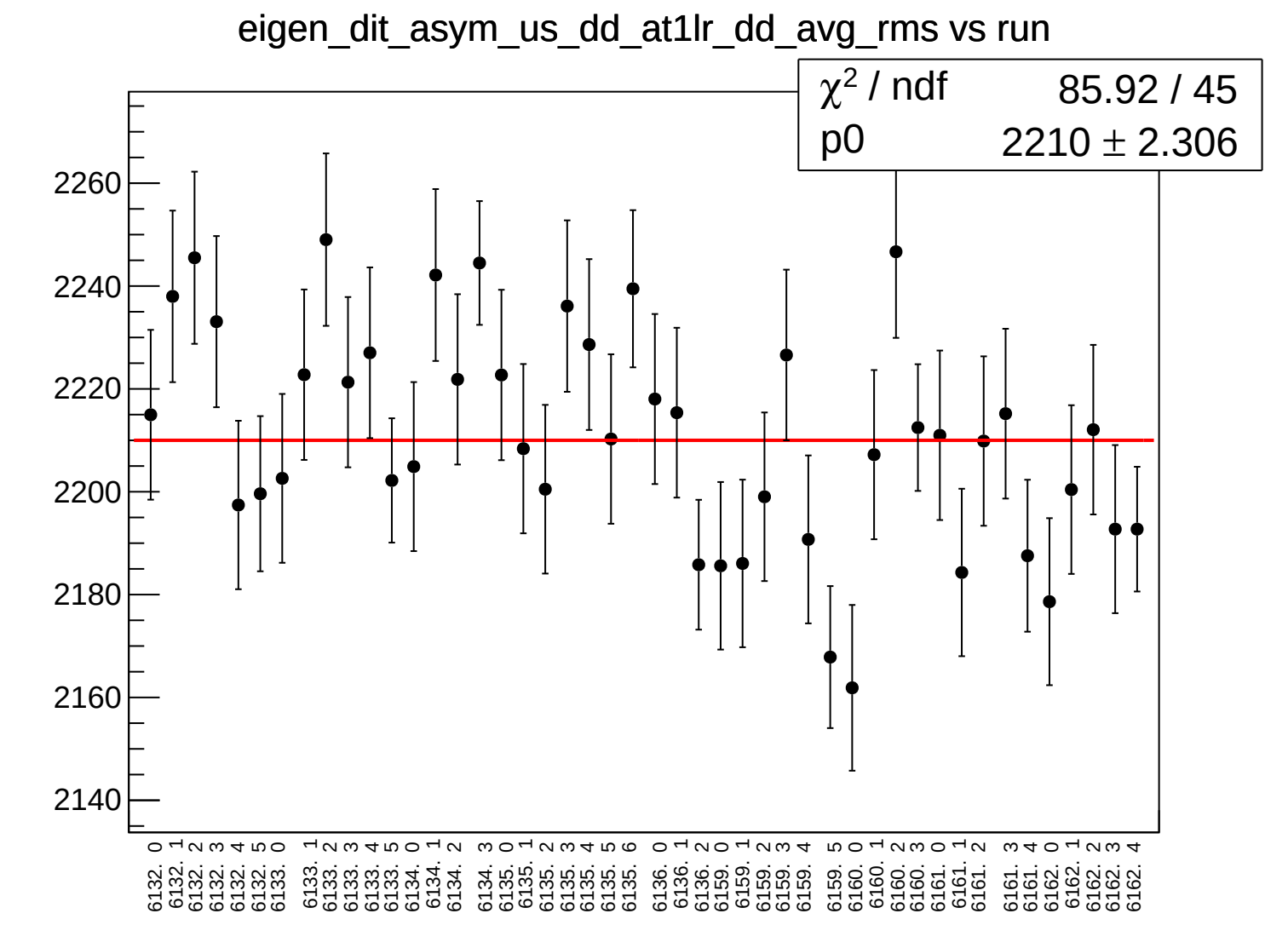
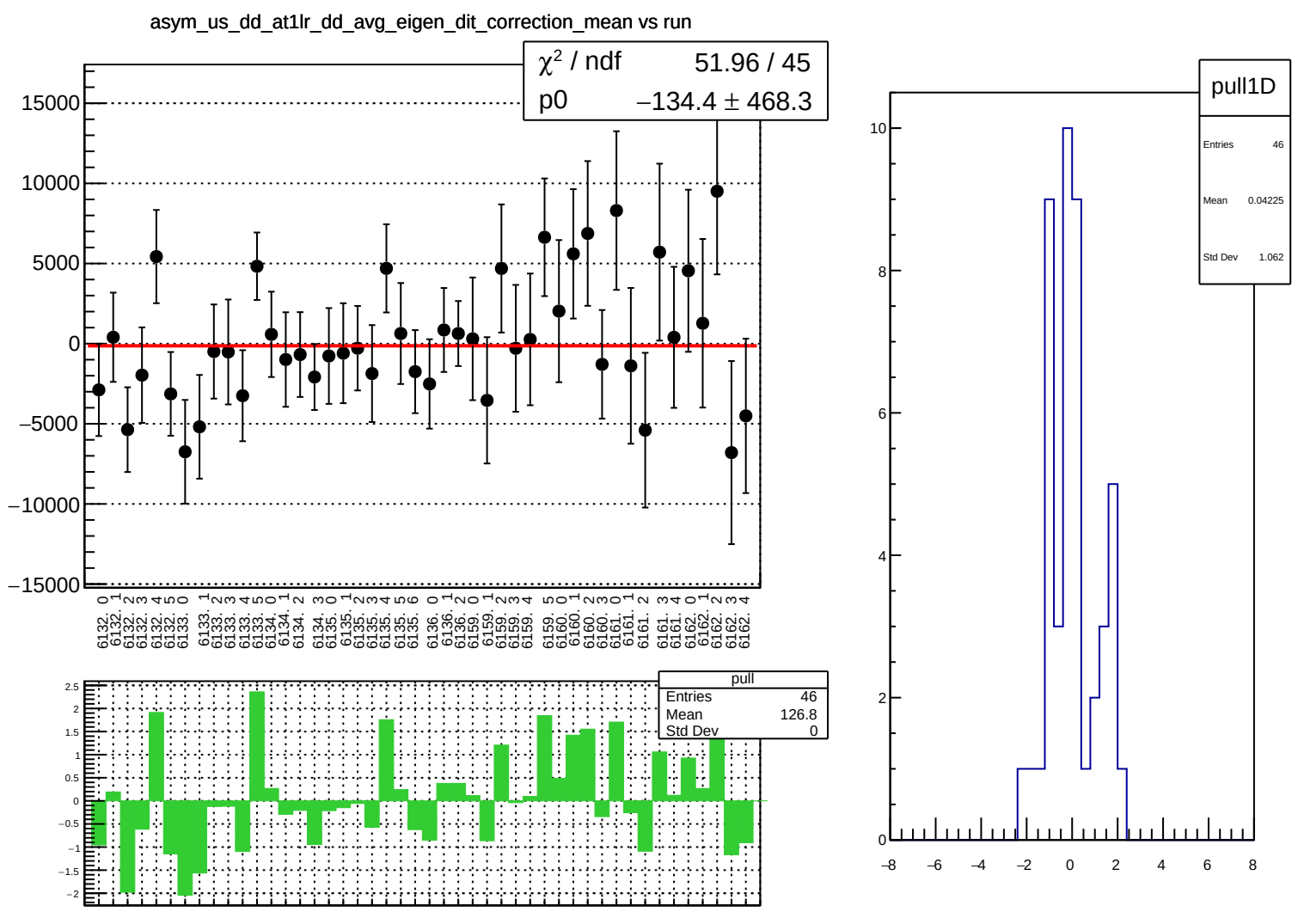
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 126.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.04225
Std Dev 1.062
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

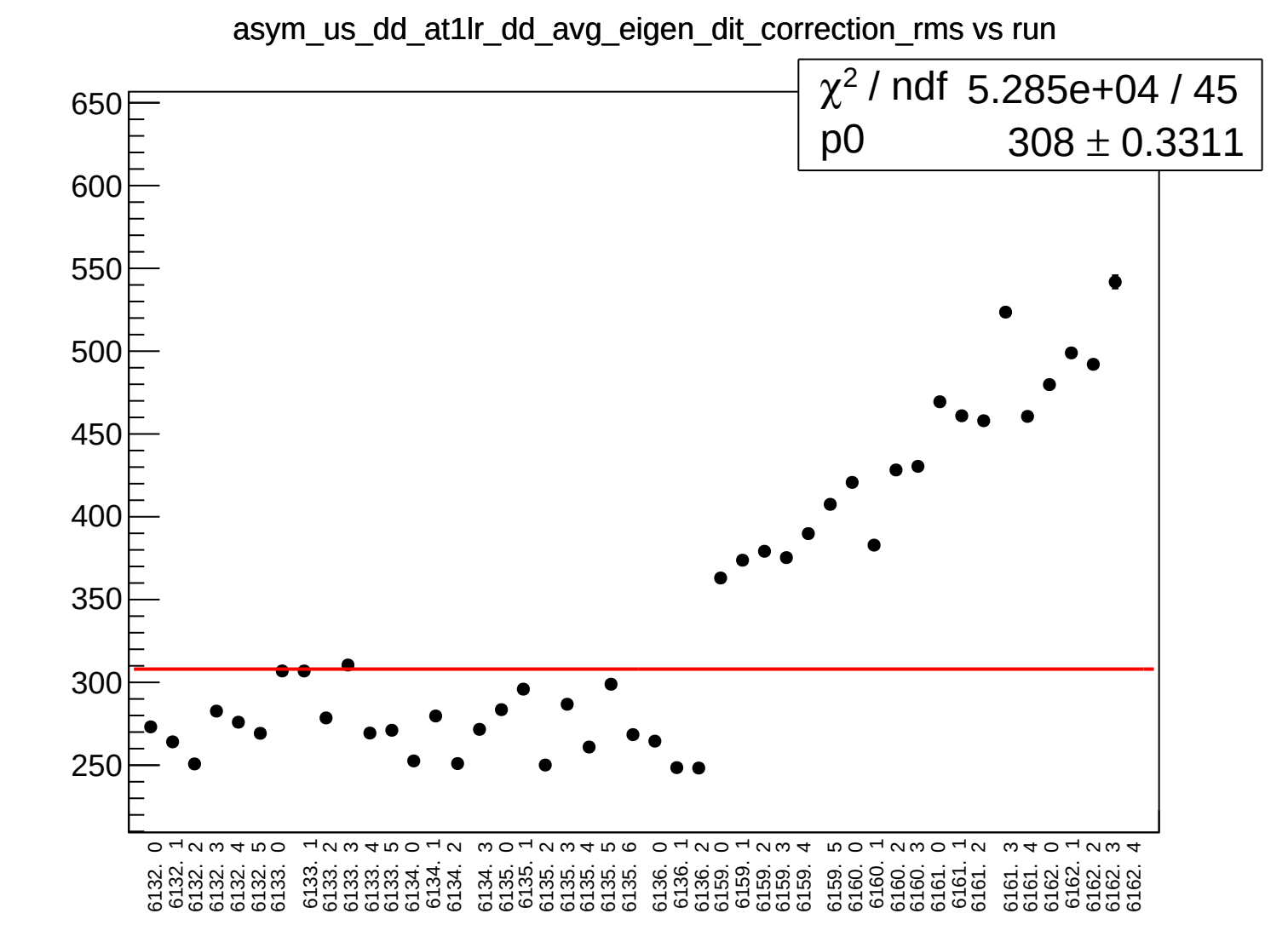

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 5.285e+04 / 45
p0 308 ± 0.3311
650
600
550
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

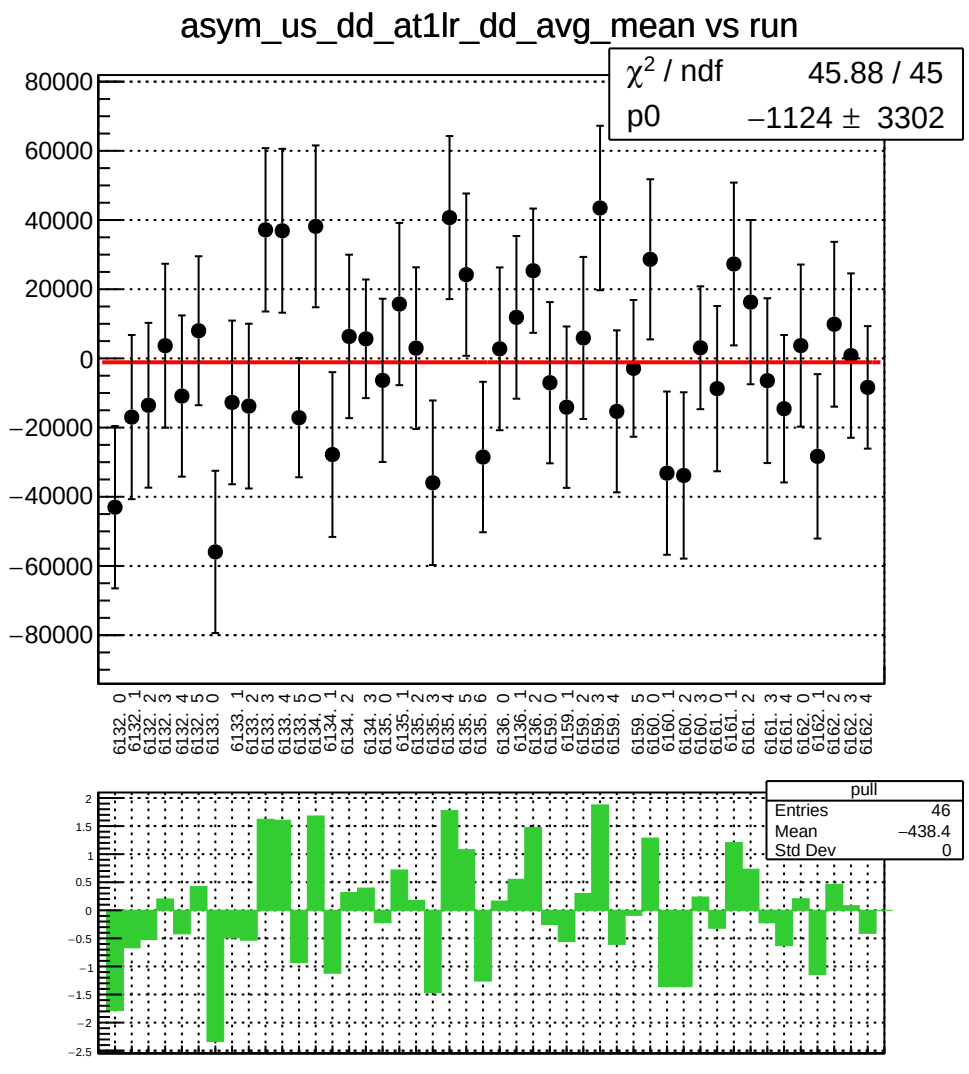

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 49 / 45
p0 −947.2 ± 3262
pull
Entries 46
Mean −1124
Std Dev 0

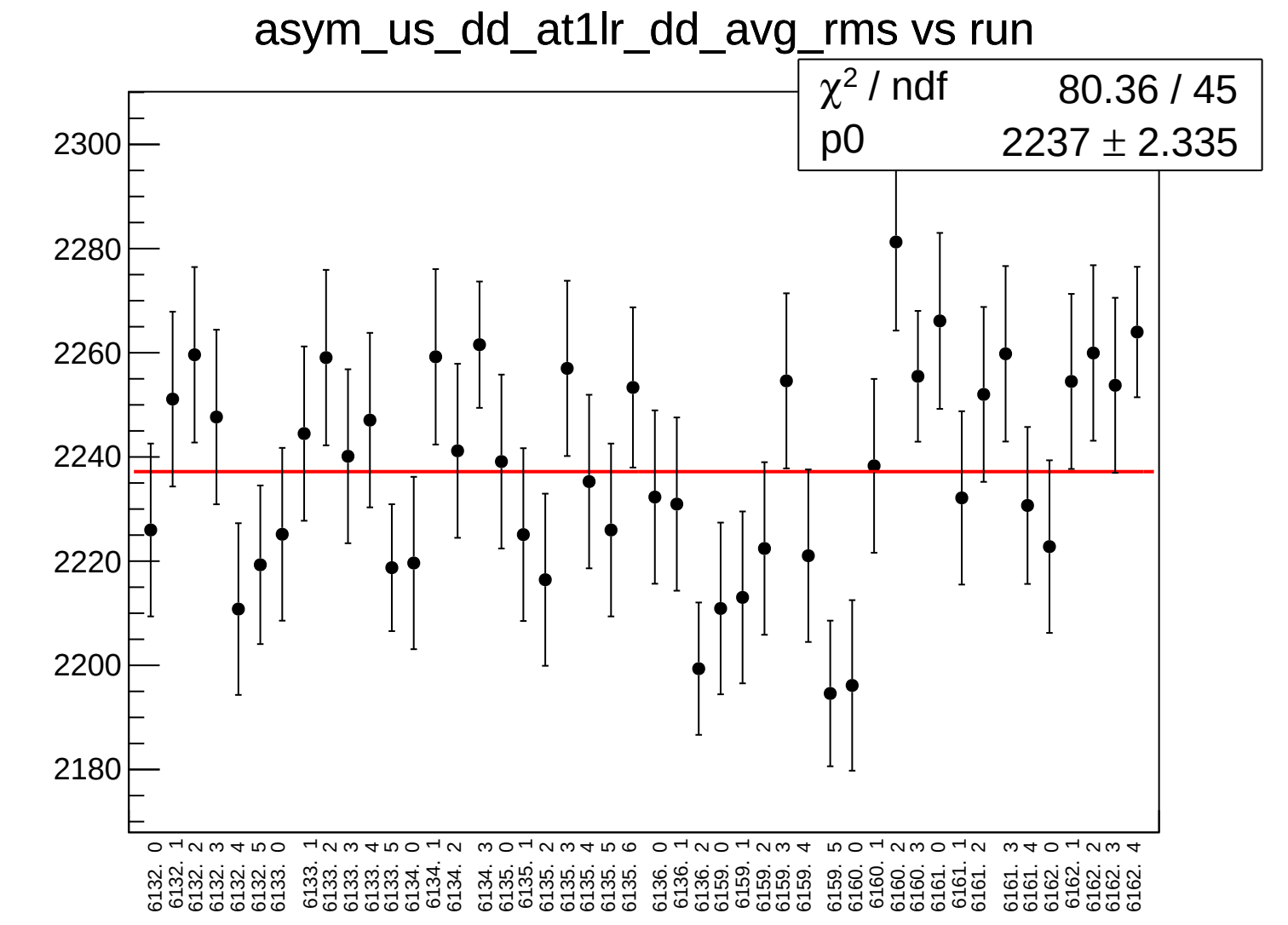

pull1D
Entries 46
Mean −0.001646
Std Dev 1.032

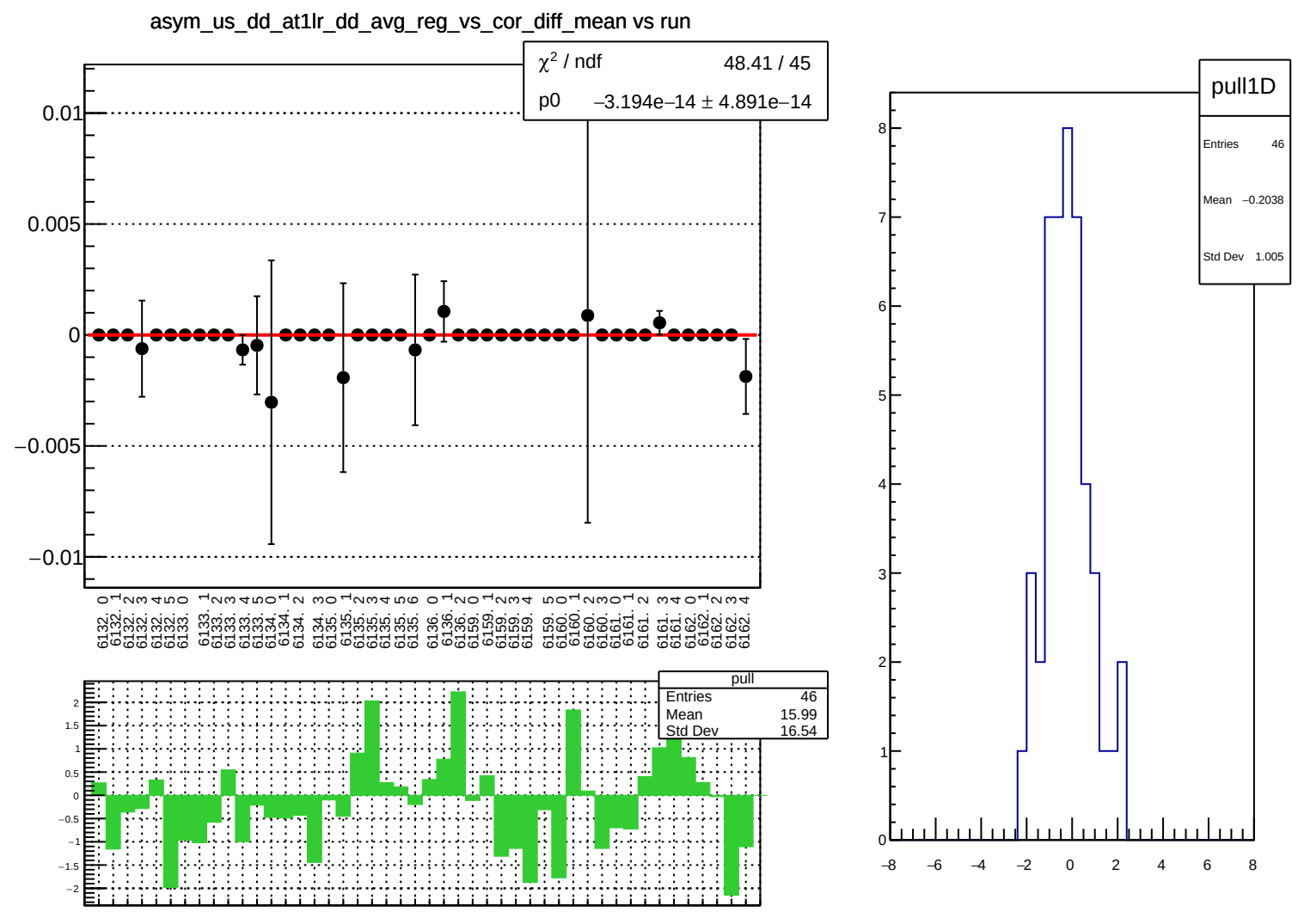

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 85.92 / 45
p0 2210 ± 2.306
2260
2240
2220
2200
2180
2160
2140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

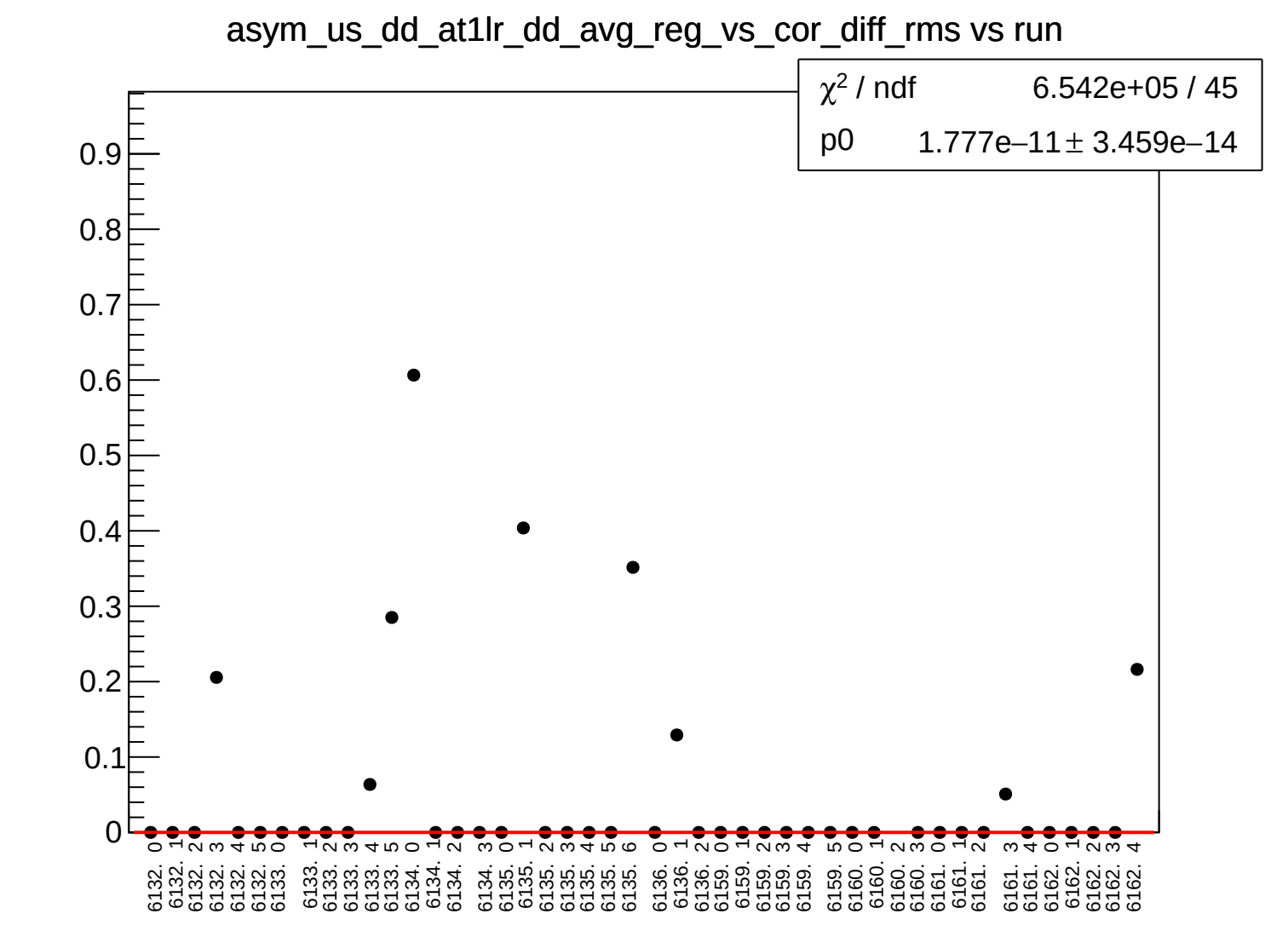

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 51.96 / 45
p0 −134.4 ± 468.3
15000
10000
5000
0
−5000
−10000
−15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 126.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.04225
Std Dev 1.062
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

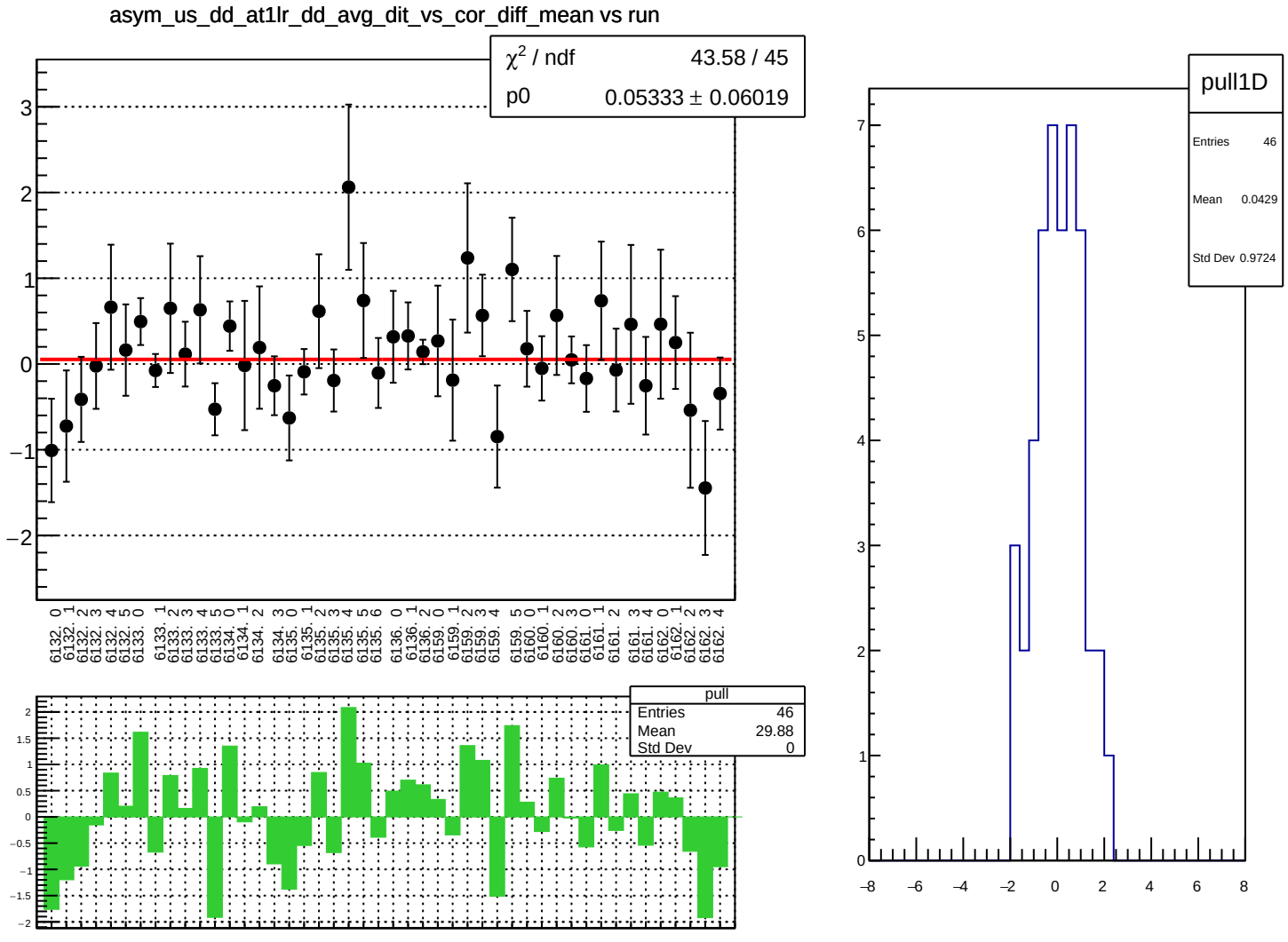

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.285e+04 / 45
p0 308 ± 0.3311
650
600
550
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

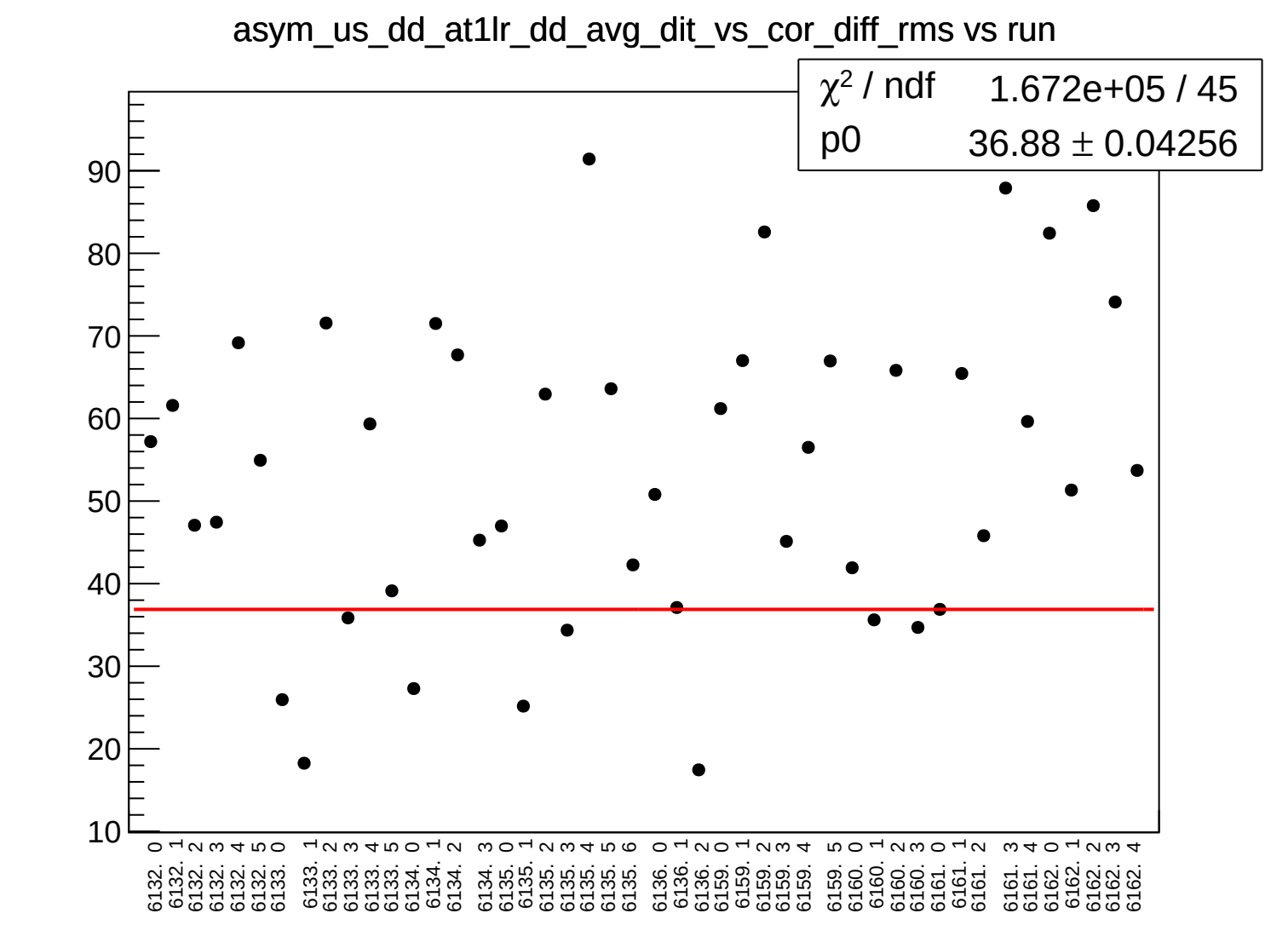

asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 45.88 / 45
p0 −1124 ± 3302
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −438.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.002655
Std Dev 0.9987
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

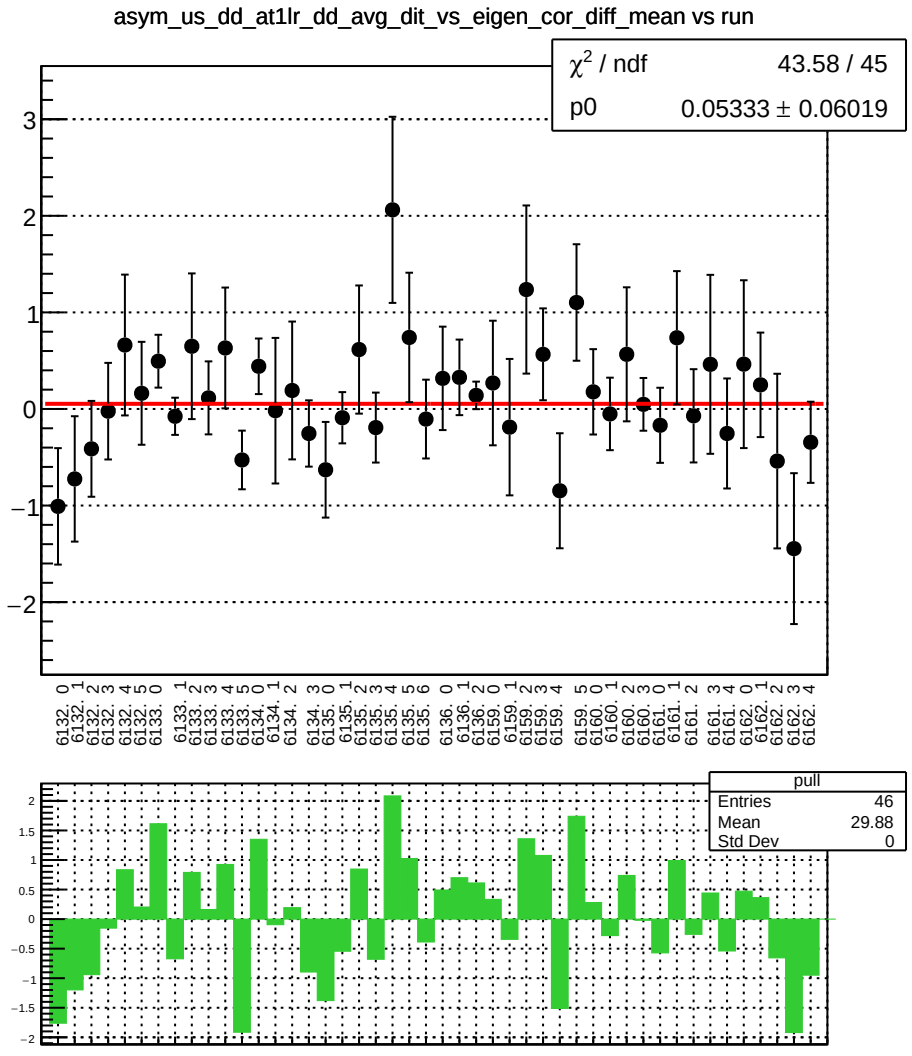

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 80.36 / 45
p0 2237 ± 2.335
2300
2280
2260
2240
2220
2200
2180
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

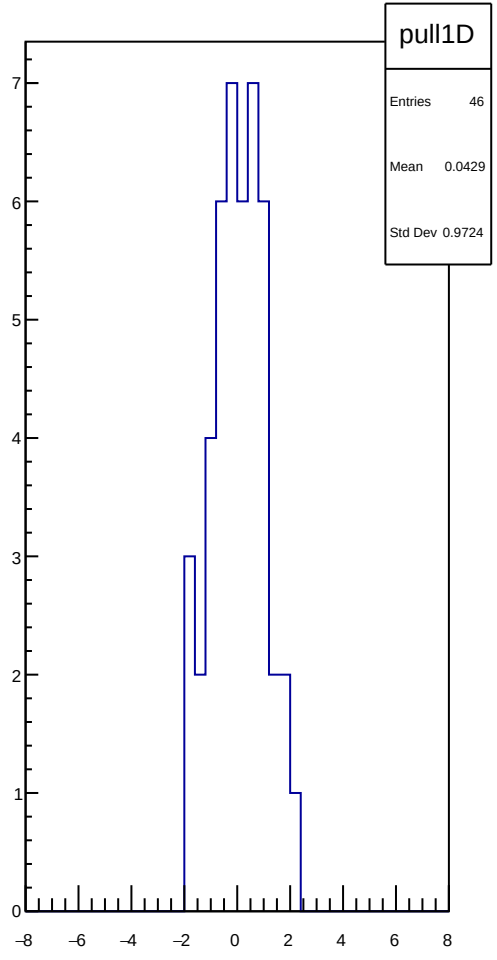

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 48.41 / 45
p0 −3.194e−14 ± 4.891e−14
0.01
0.005
0
−0.005
−0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 15.99
Std Dev 16.54
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.2038
Std Dev 1.005
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

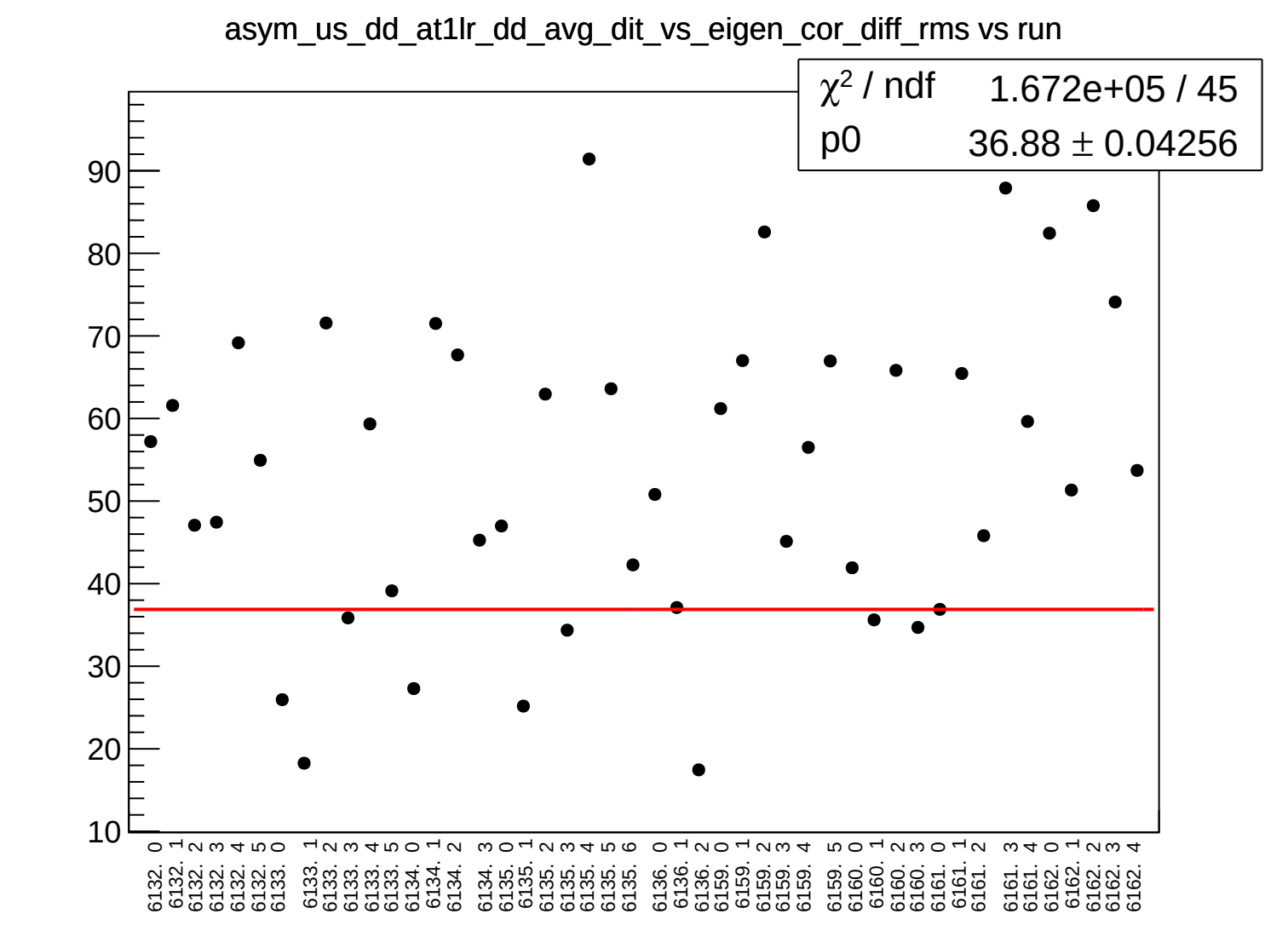

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.542e+05 / 45
p0 1.777e−11 ± 3.459e−14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

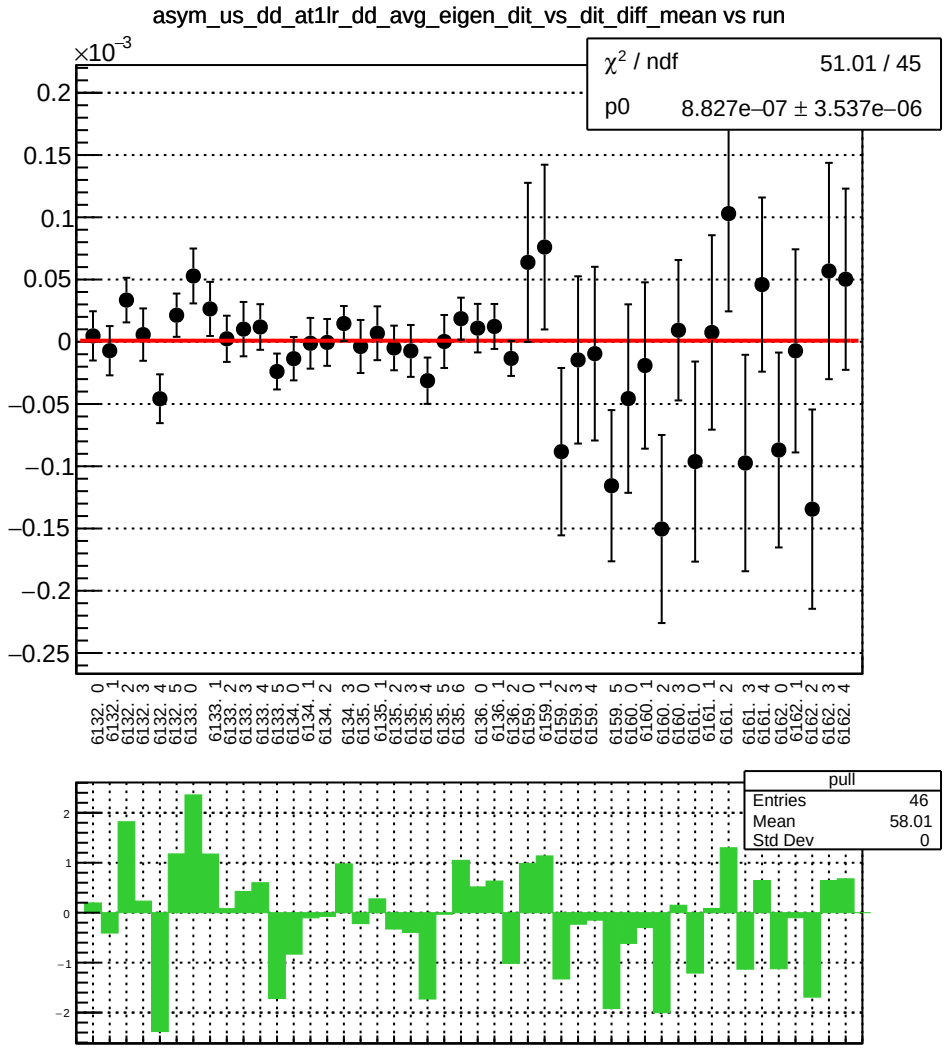

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 43.58 / 45
p0 0.05333 ± 0.06019
pull
Entries 46
Mean 29.88
Std Dev 0
pull1D
Entries 46
Mean 0.0429
Std Dev 0.9724

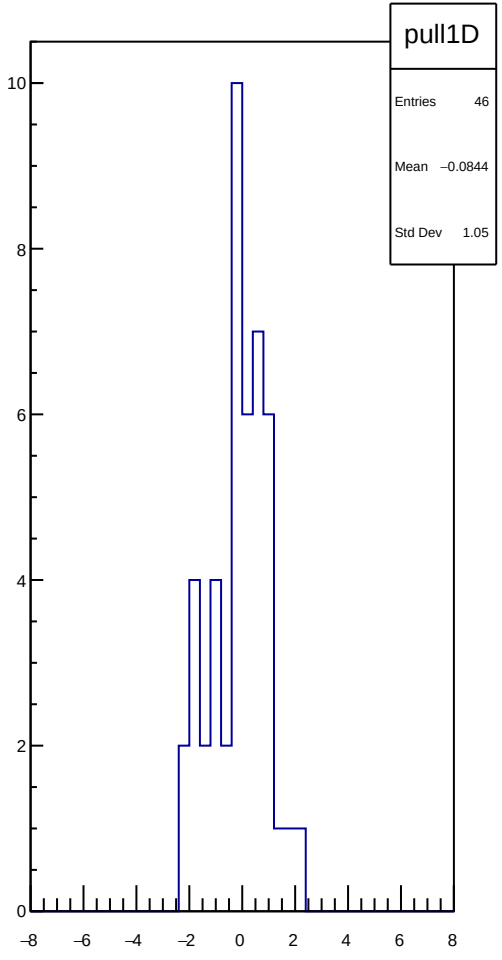

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.672e+05 / 45
p0 36.88 ± 0.04256
90
80
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

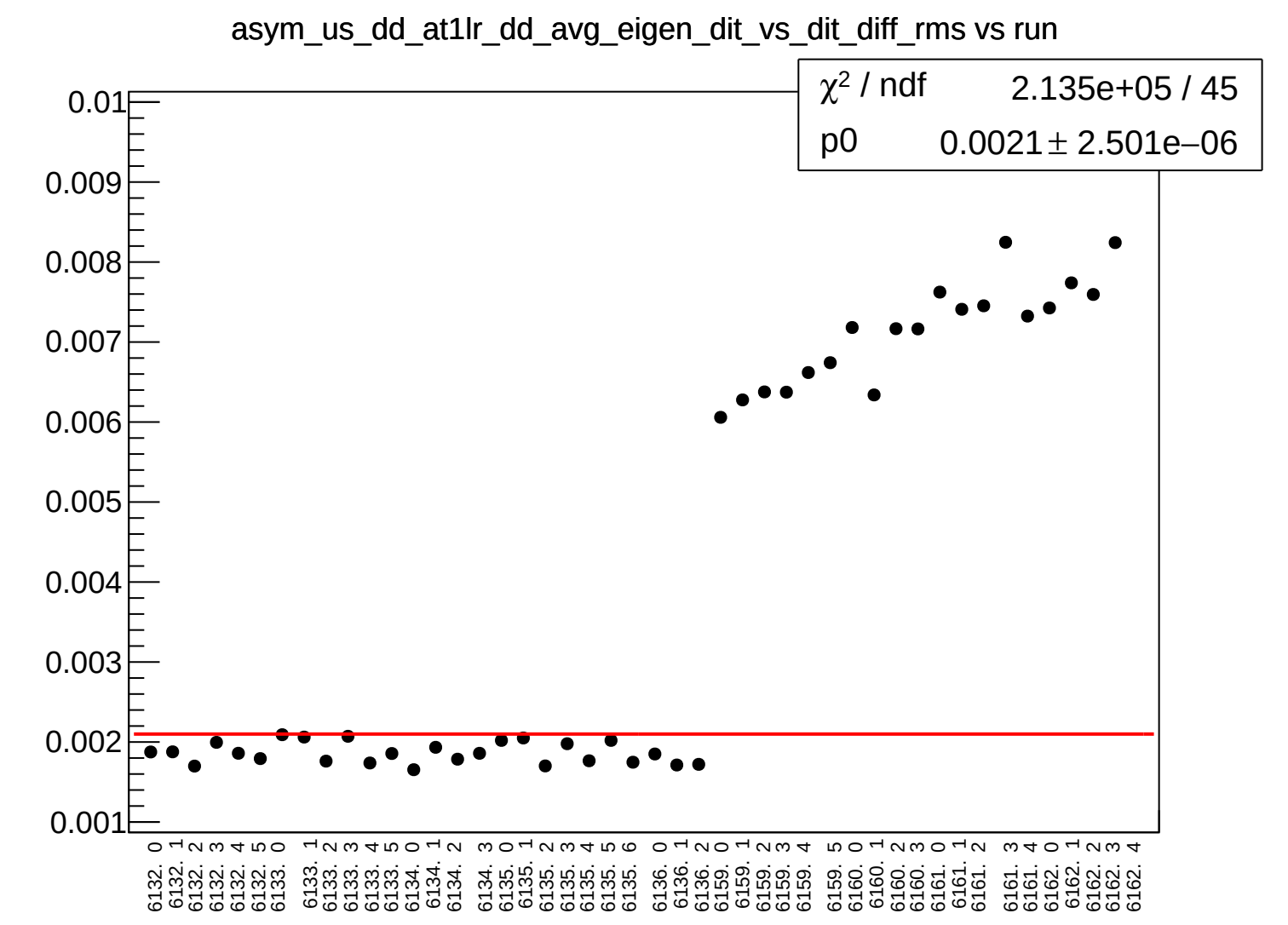

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.58 / 45
p0 0.05333 ± 0.06019
pull
Entries 46
Mean 29.88
Std Dev 0

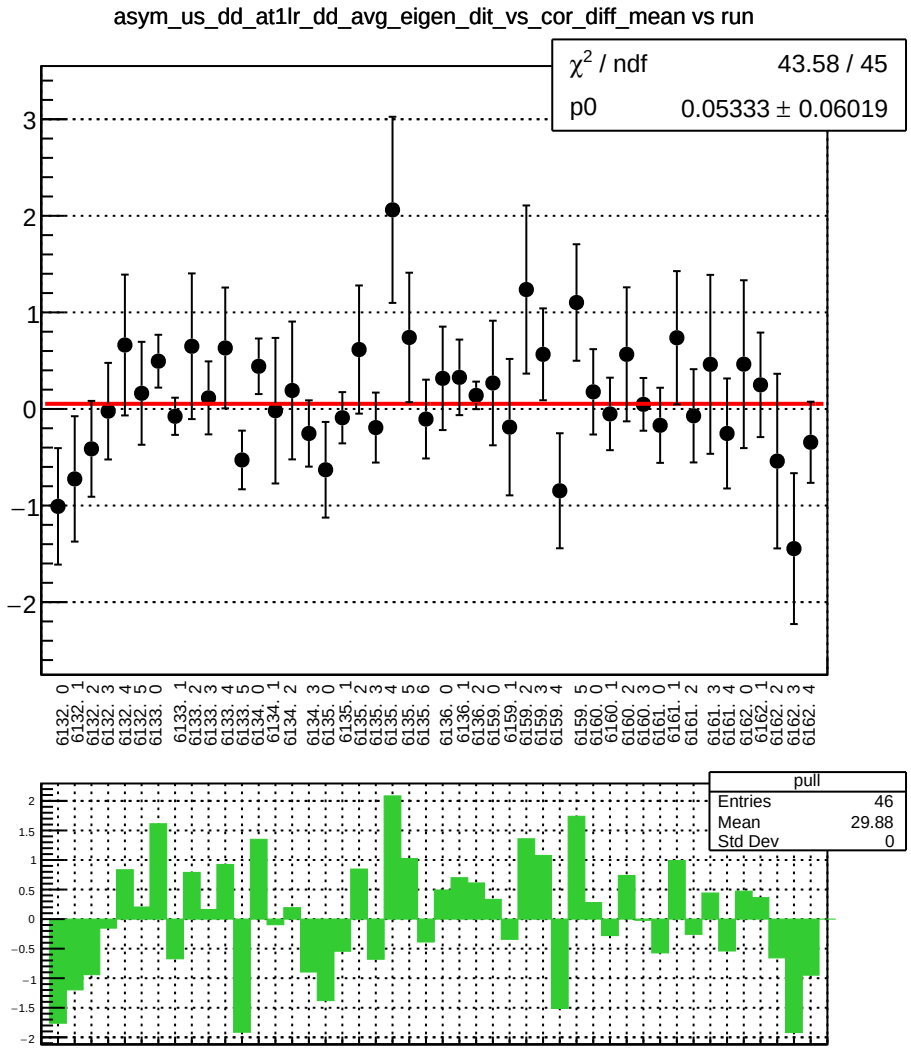

pull1D
Entries 46
Mean 0.0429
Std Dev 0.9724

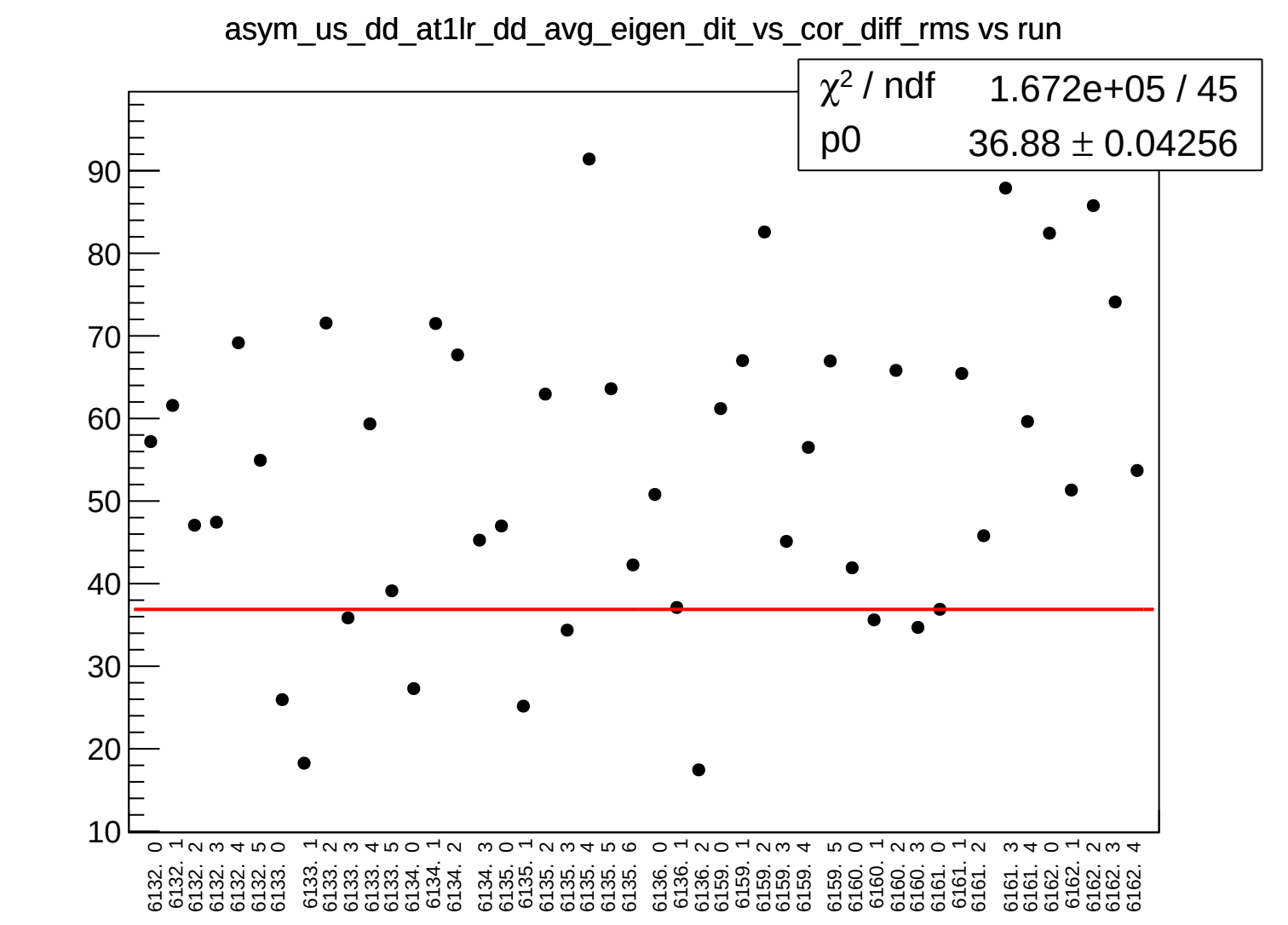

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.672e+05 / 45
p0 36.88 ± 0.04256
90
80
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

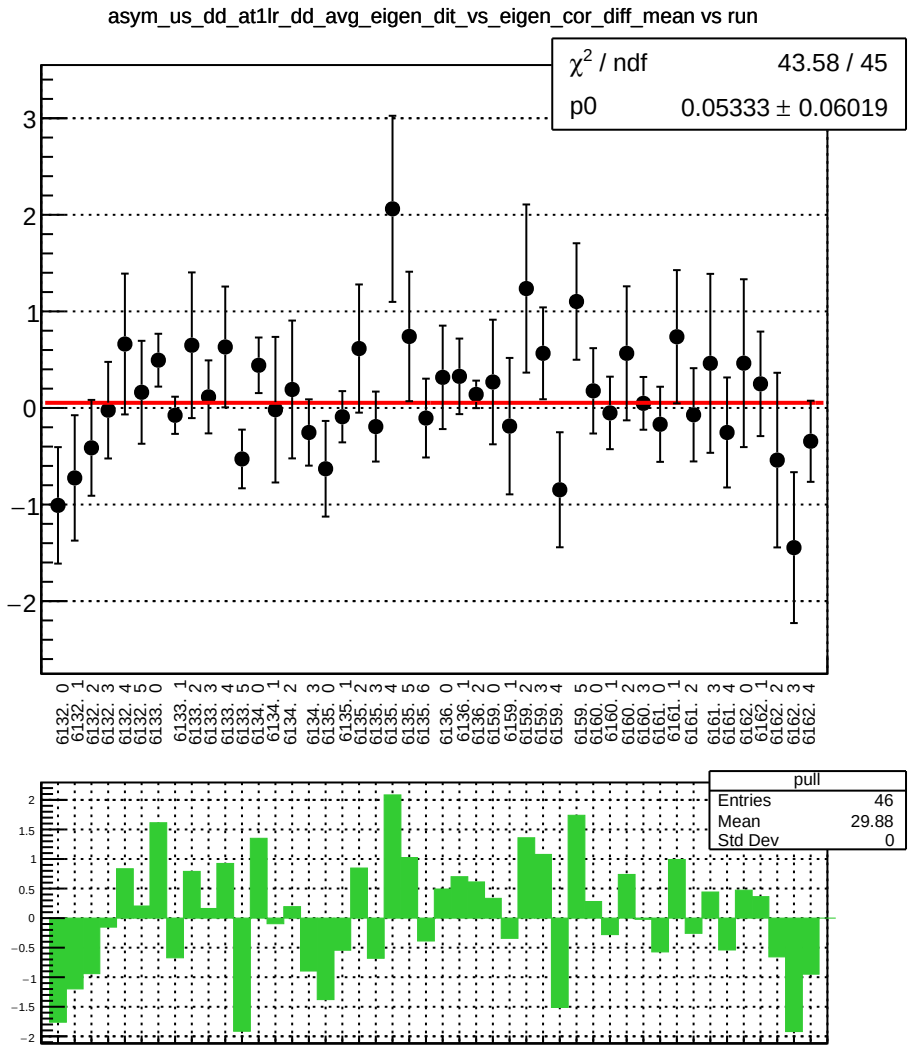

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 51.01 / 45
p0 8.827e−07 ± 3.537e−06
pull
Entries 46
Mean 58.01
Std Dev 0

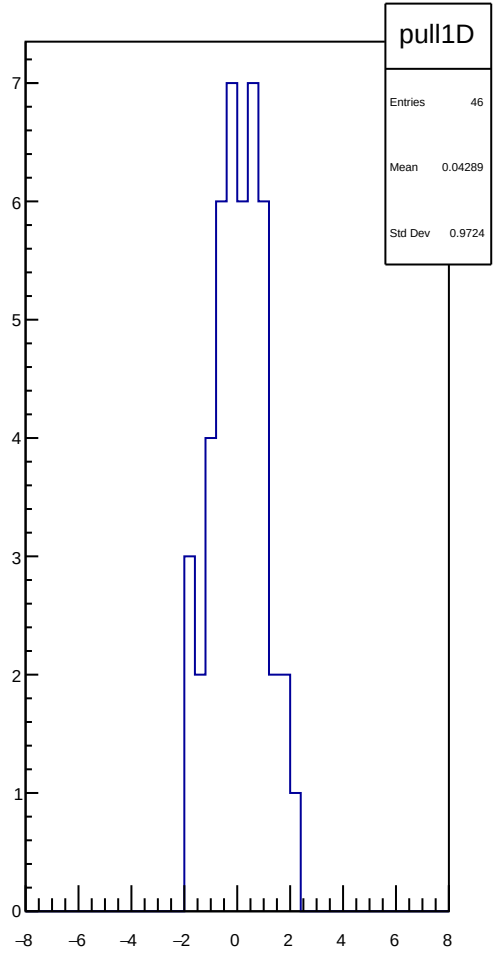

pull1D
Entries 46
Mean −0.0844
Std Dev 1.05

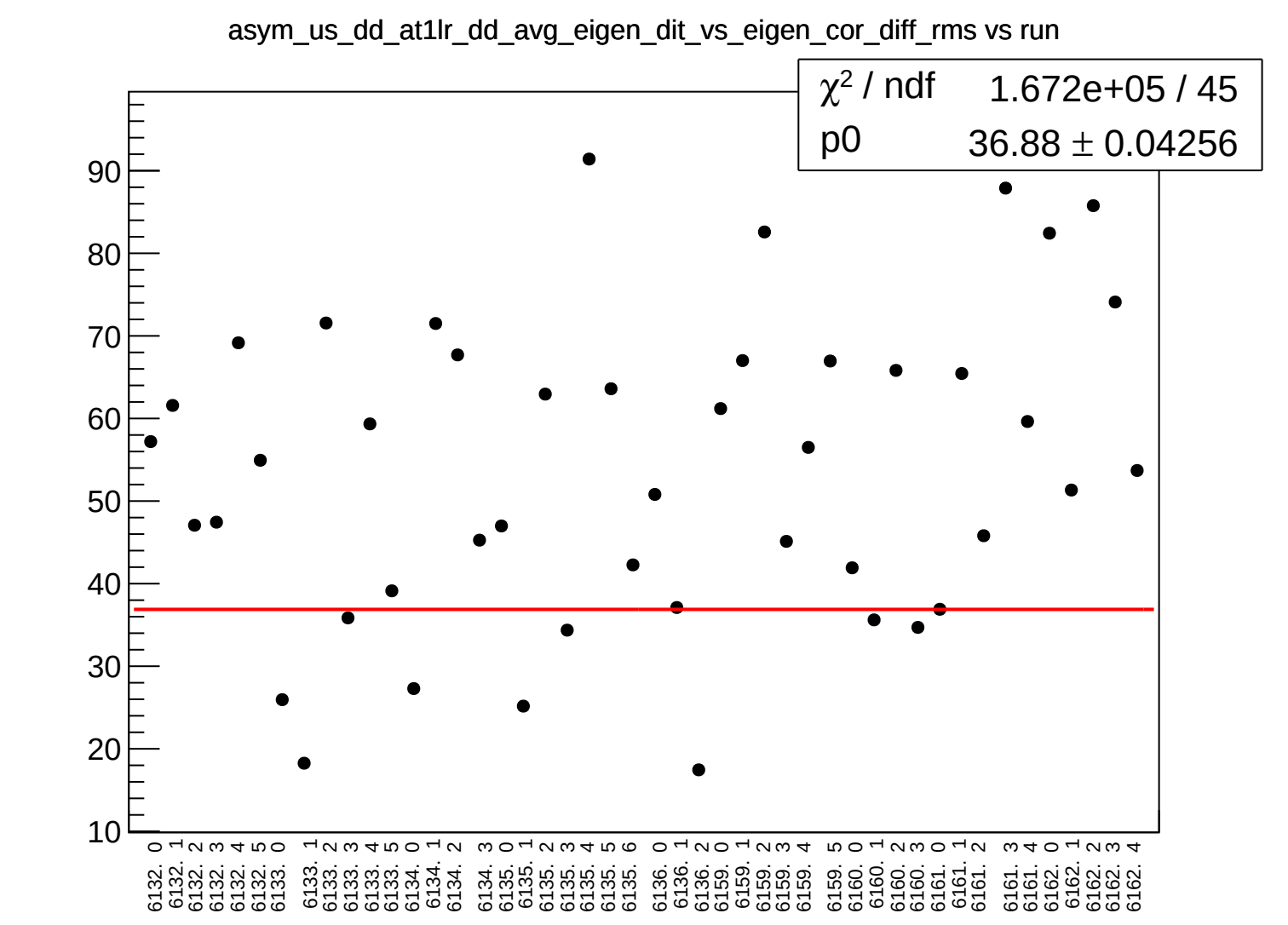

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.135e+05 / 45
p0 0.0021 ± 2.501e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 43.58 / 45
p0 0.05333 ± 0.06019
pull
Entries 46
Mean 29.88
Std Dev 0
pull1D
Entries 46
Mean 0.04289
Std Dev 0.9724


asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.672e+05 / 45
p0 36.88 ± 0.04256
90
80
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.58 / 45
p0 0.05333 ± 0.06019
pull
Entries 46
Mean 29.88
Std Dev 0


pull1D
Entries 46
Mean 0.04289
Std Dev 0.9724


asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.672e+05 / 45
p0 36.88 ± 0.04256
90
80
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
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6135. 1
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6135. 3
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6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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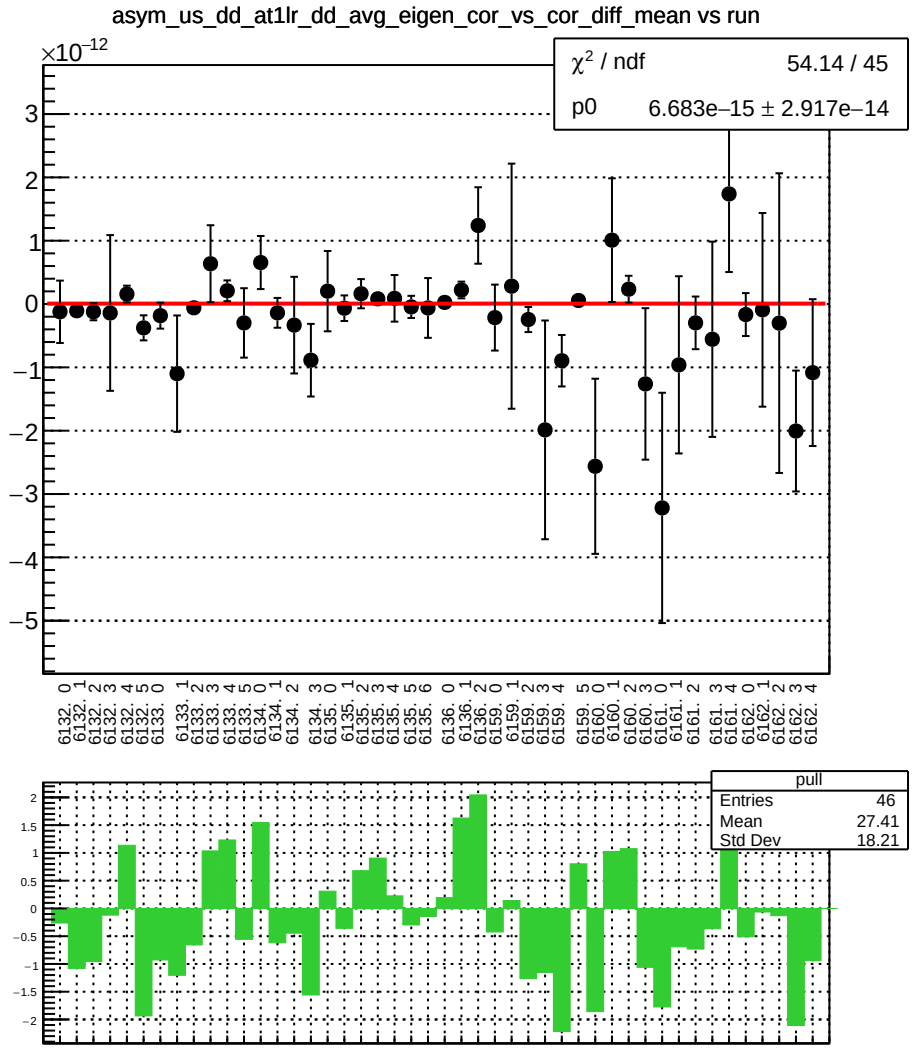
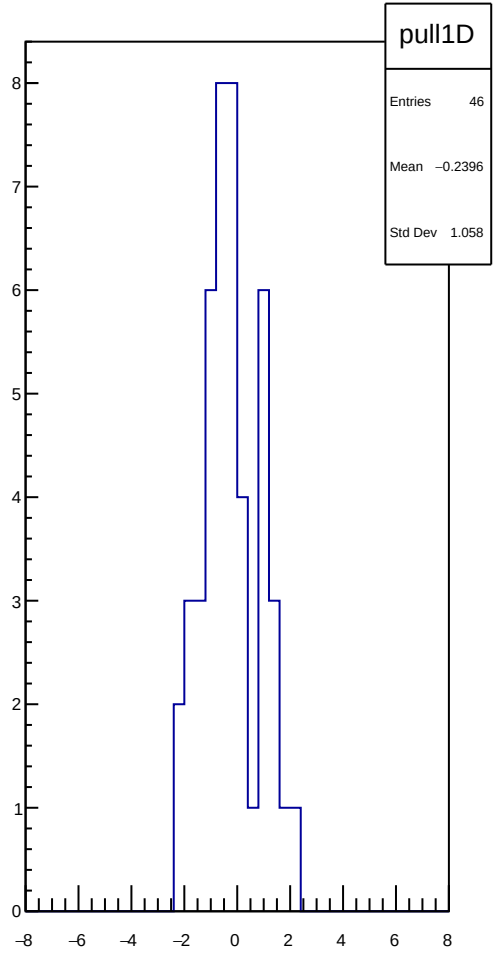
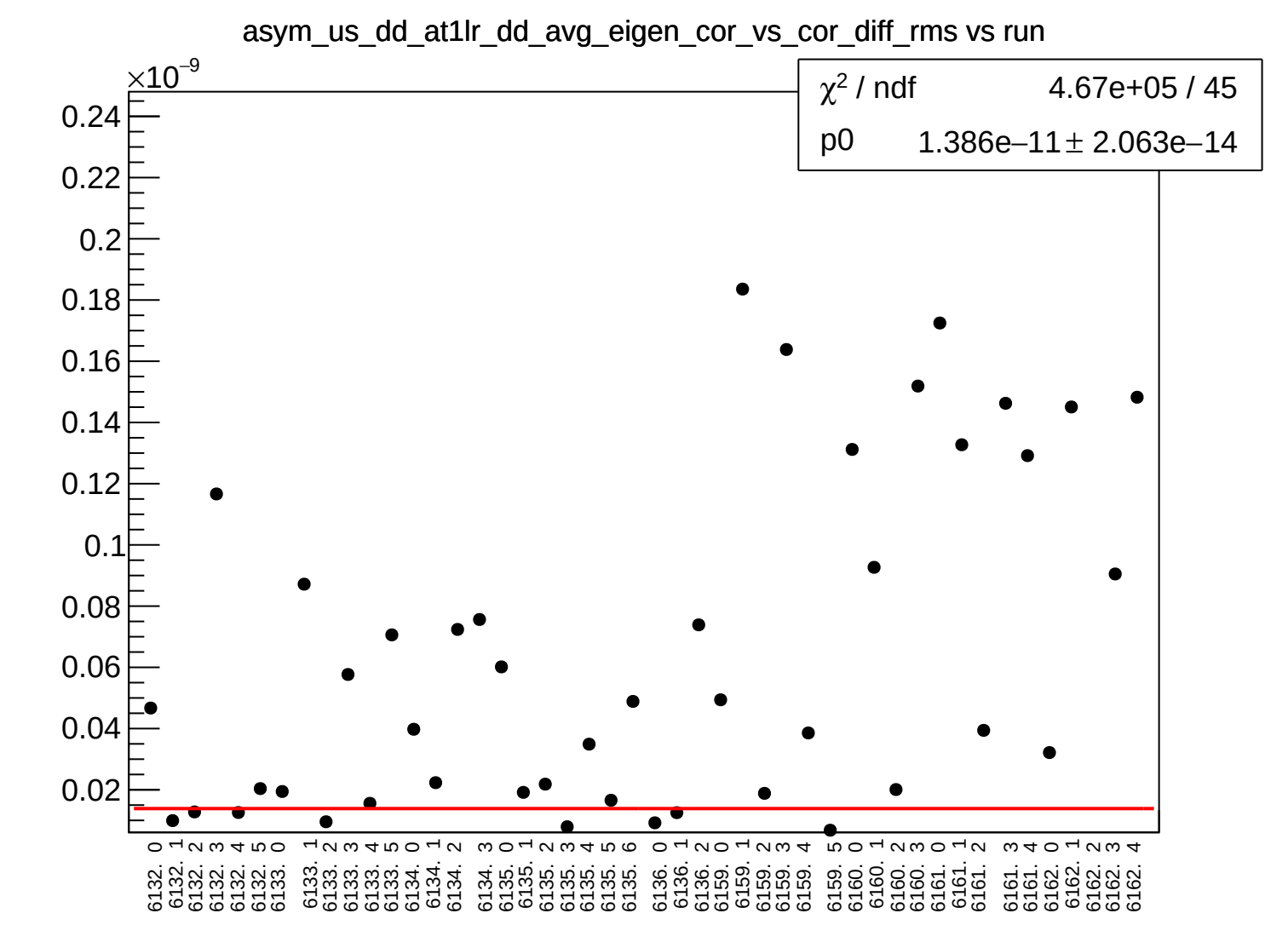
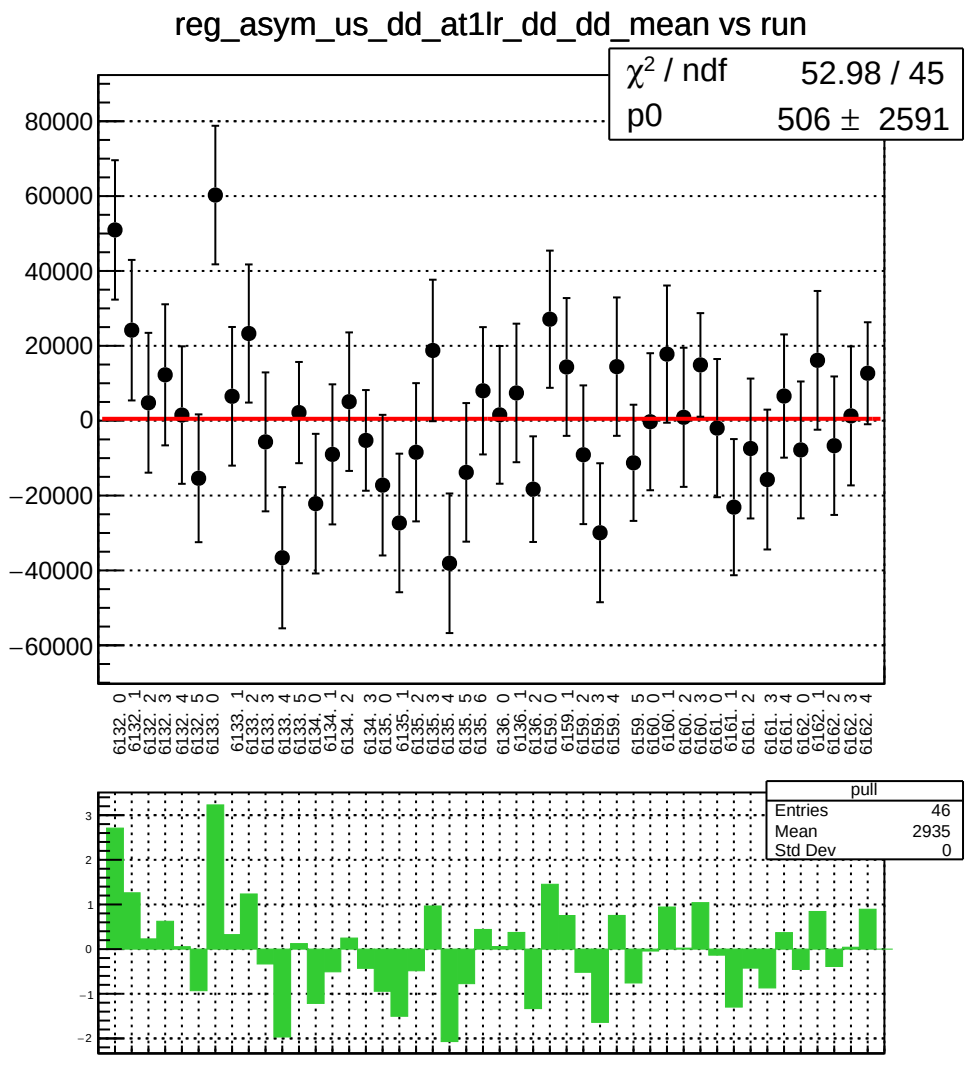
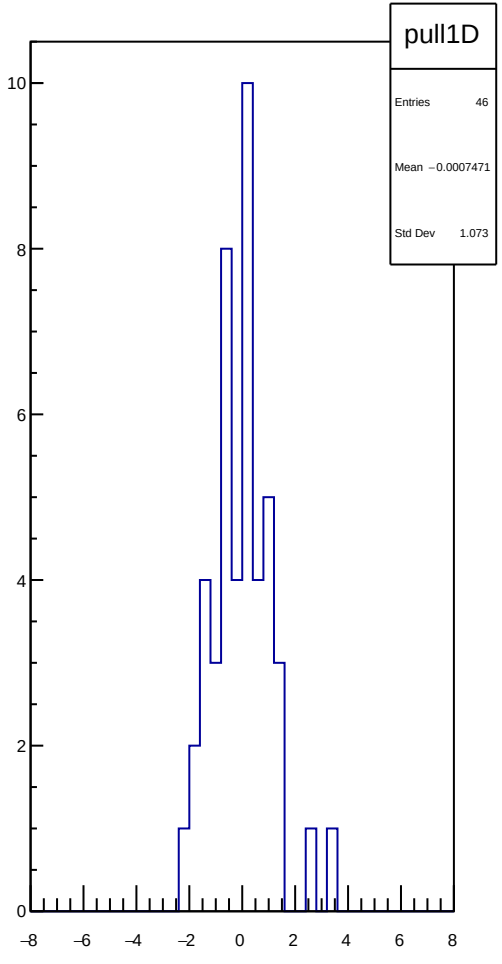
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

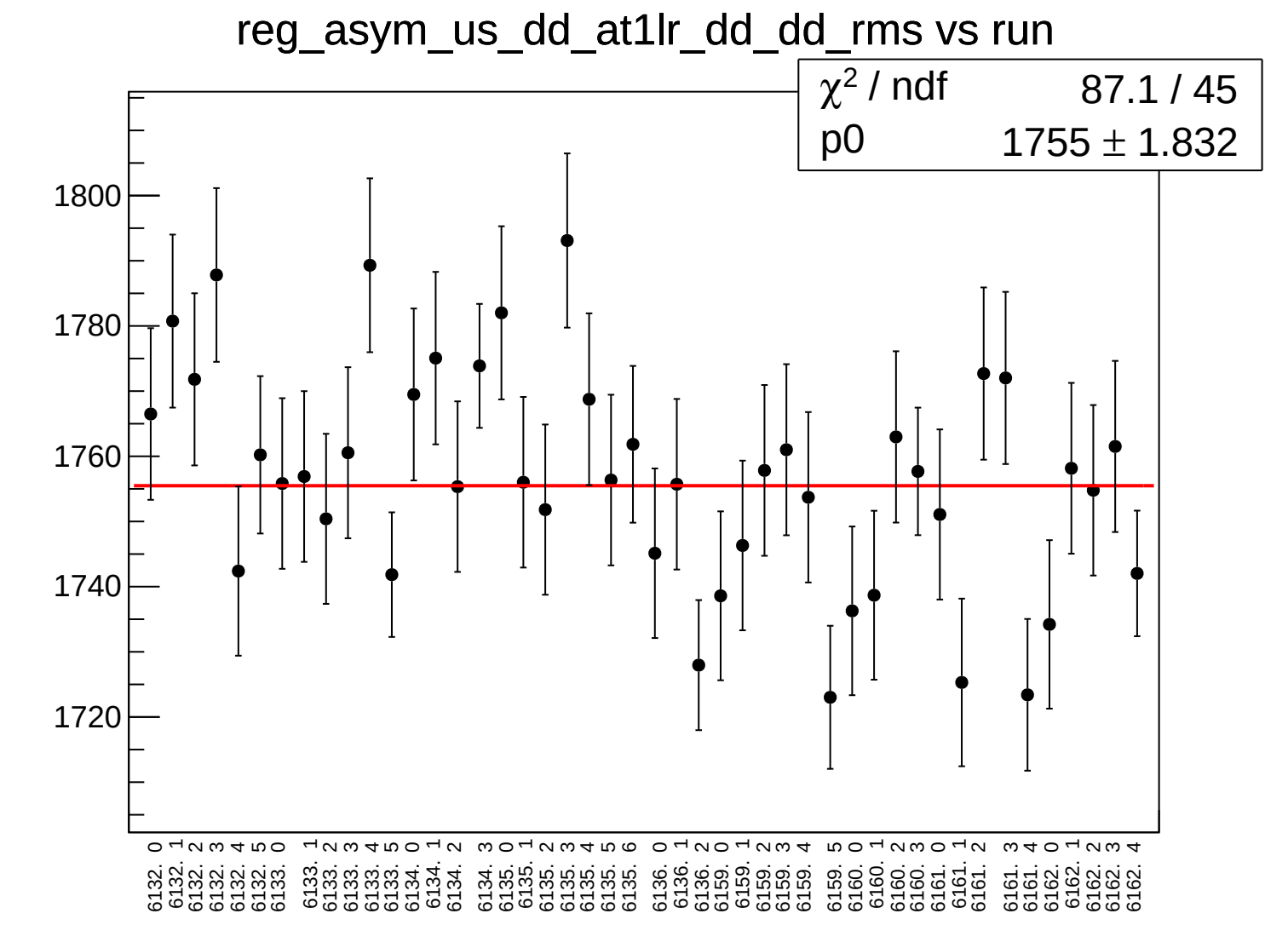

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 54.14 / 45
p0 6.683e−15 ± 2.917e−14
pull
Entries 46
Mean 27.41
Std Dev 18.21


pull1D
Entries 46
Mean −0.2396
Std Dev 1.058


asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.67e+05 / 45
p0 1.386e−11 ± 2.063e−14
0.24
0.22
0.2
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
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 52.98 / 45
p0 506 ± 2591
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 2935
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.0007471
Std Dev 1.073
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 87.1 / 45
p0 1755 ± 1.832
1800
1780
1760
1740
1720
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
6161. 3
6161. 4
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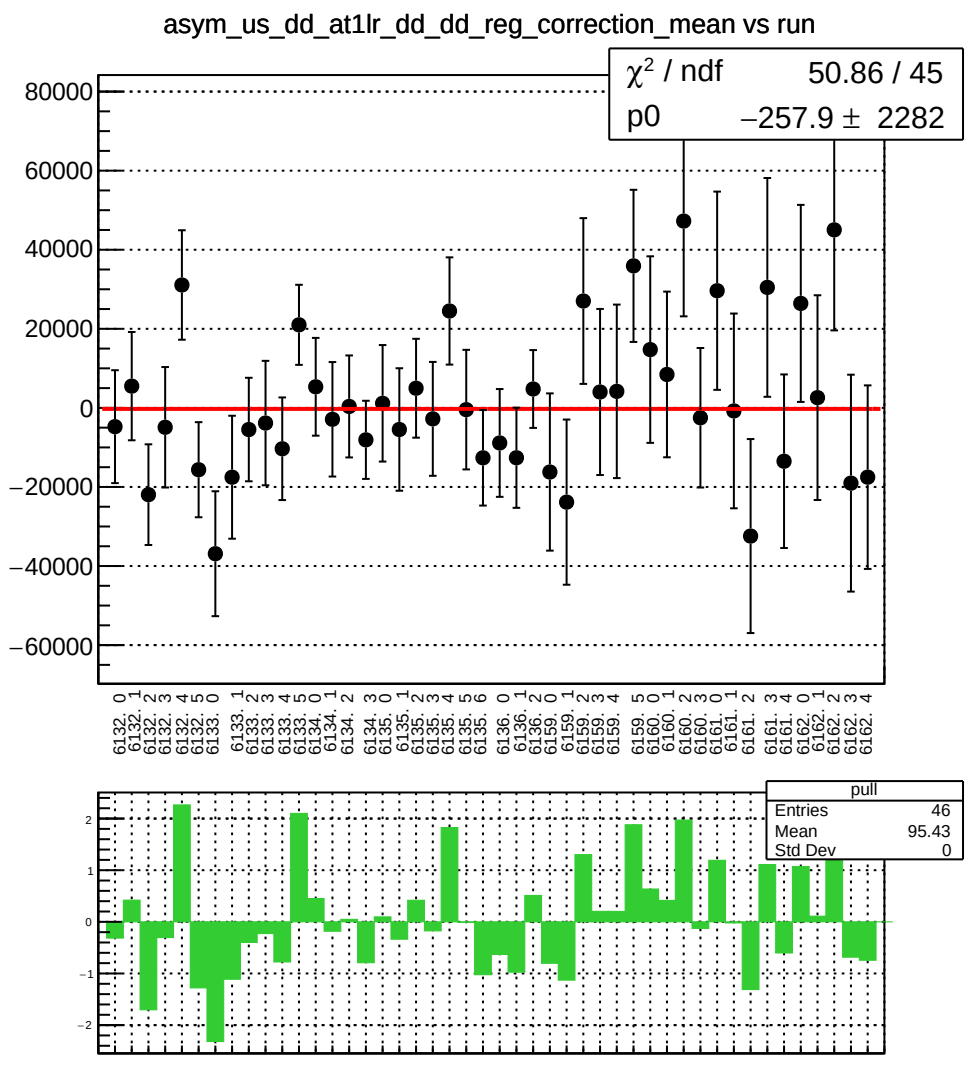
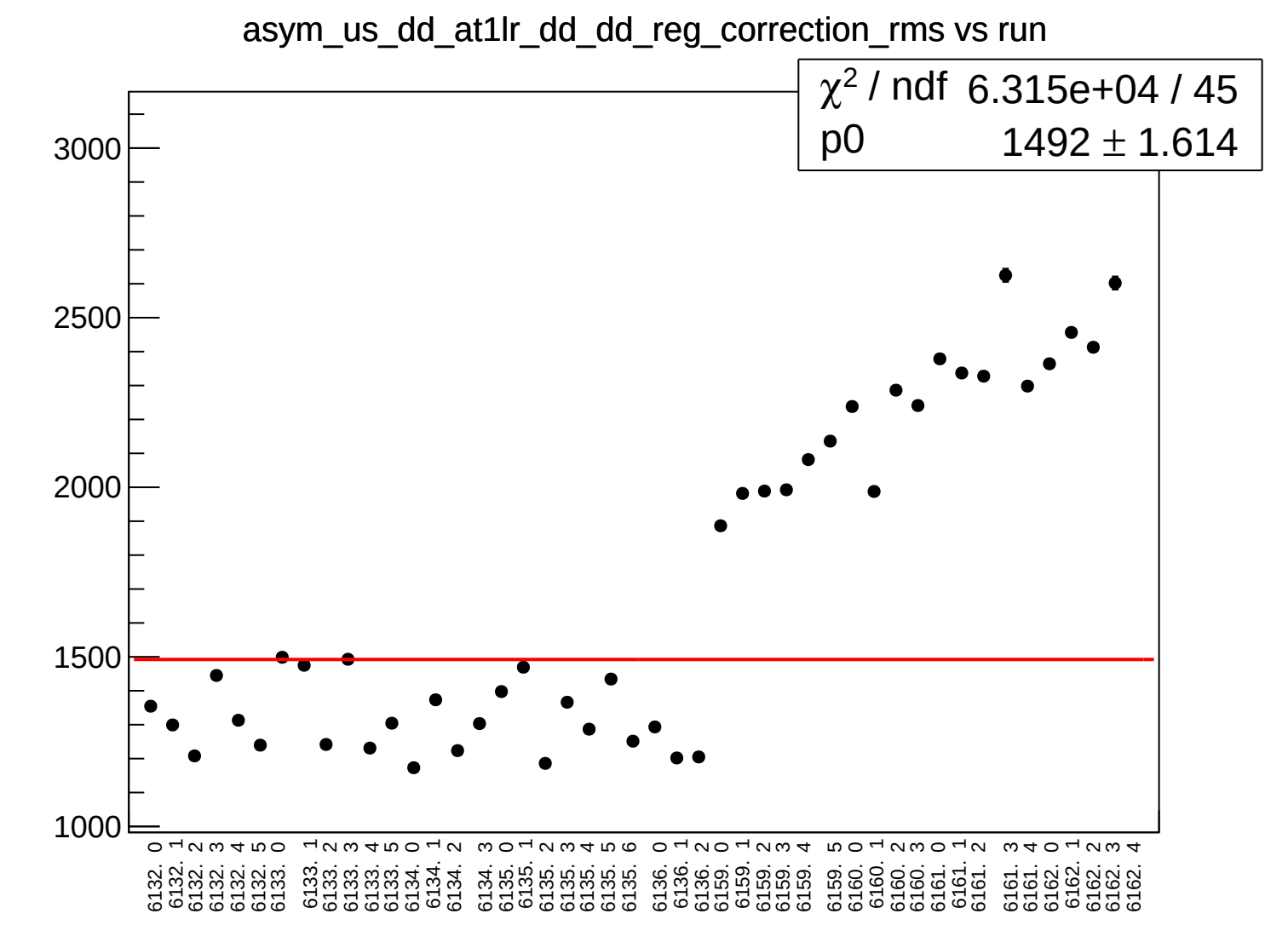
6162. 3
6162. 4


asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 50.86 / 45
p0 −257.9 ± 2282
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 95.43
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.04414
Std Dev 1.051
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 6.315e+04 / 45
p0 1492 ± 1.614
3000
2500
2000
1500
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
6161. 3
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6162. 0
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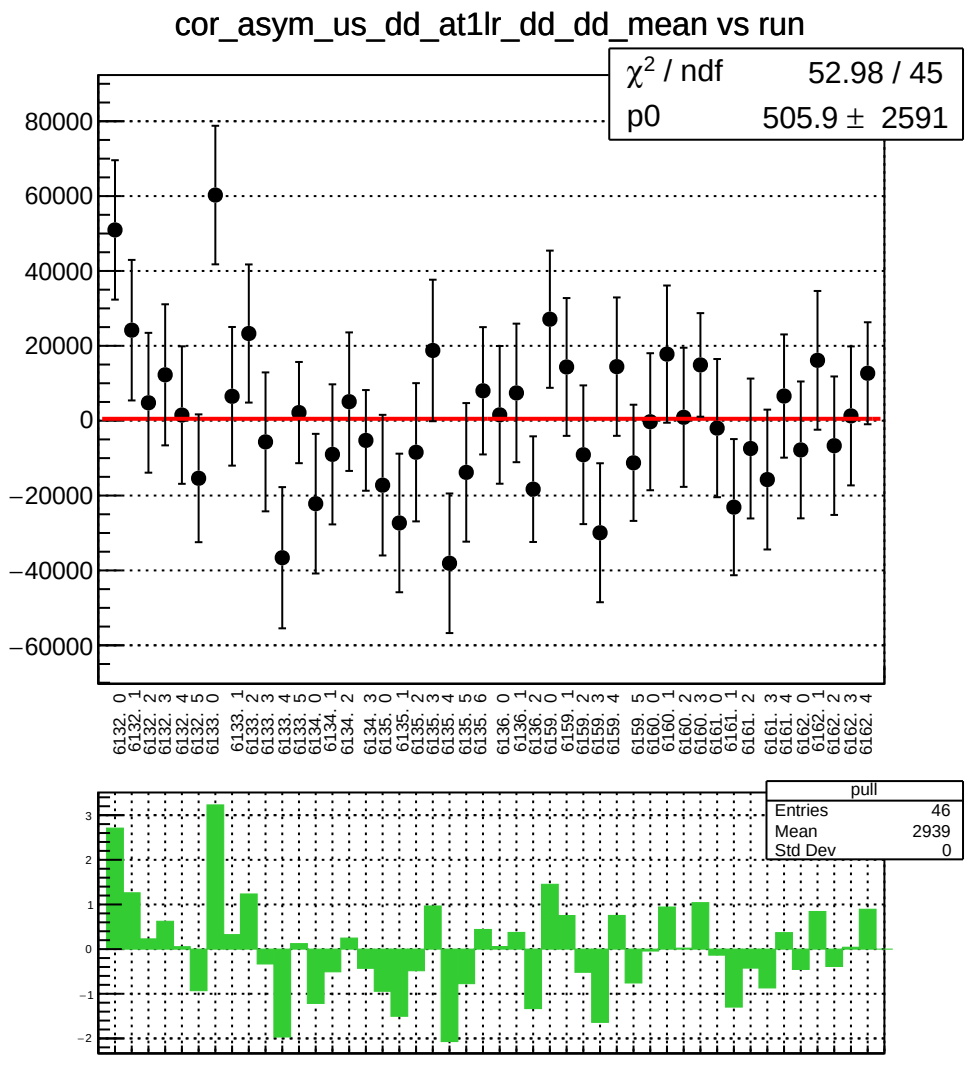
6162. 2
6162. 3
6162. 4


cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 52.98 / 45
p0 505.9 ± 2591
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
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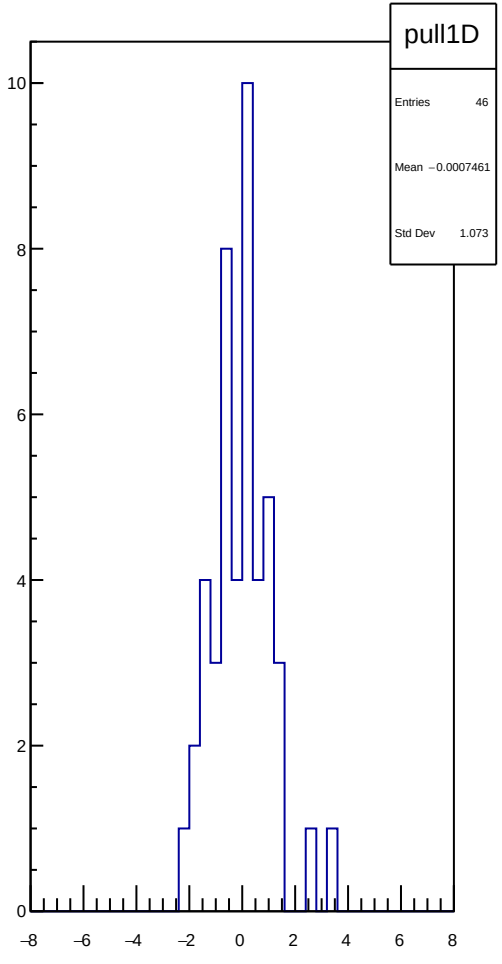
6162. 3
6162. 4
pull
Entries 46
Mean 2939
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.0007461
Std Dev 1.073
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8
6
4
2
0
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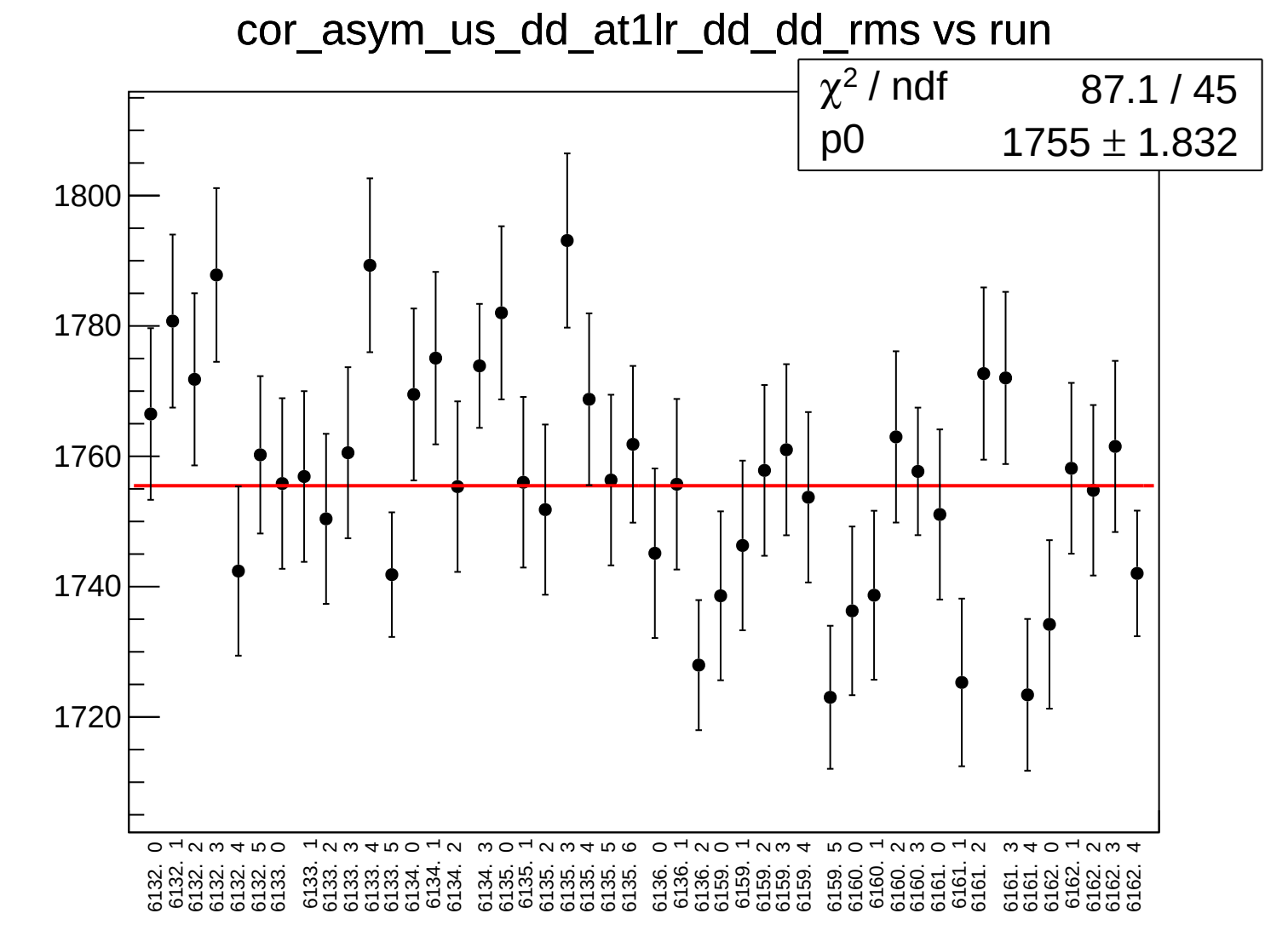
−6
−4
−2
0
2
4
6
8


cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 87.1 / 45
p0 1755 ± 1.832
1800
1780
1760
1740
1720
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6134. 2
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6135. 5
6135. 6
6136. 0
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6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
6161. 3
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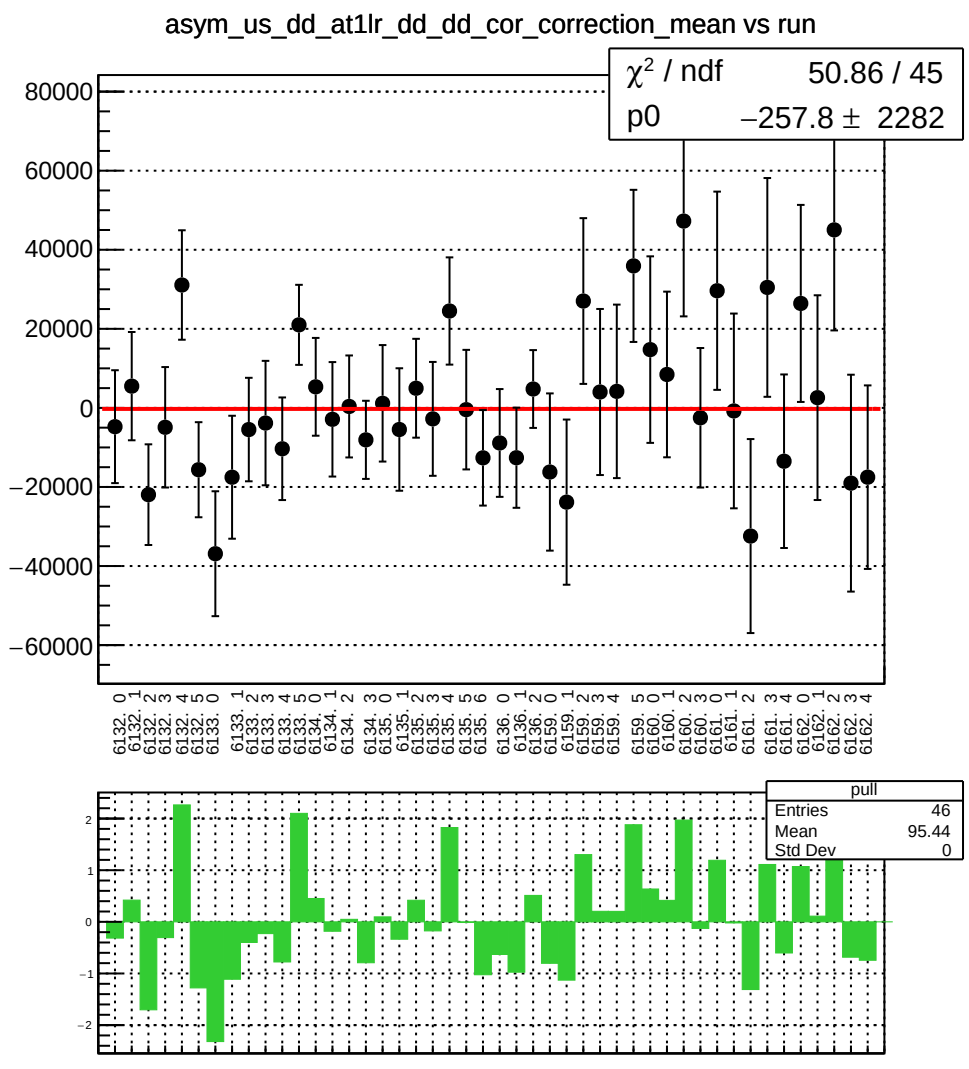
asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 50.86 / 45
p0 −257.8 ± 2282
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 2
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6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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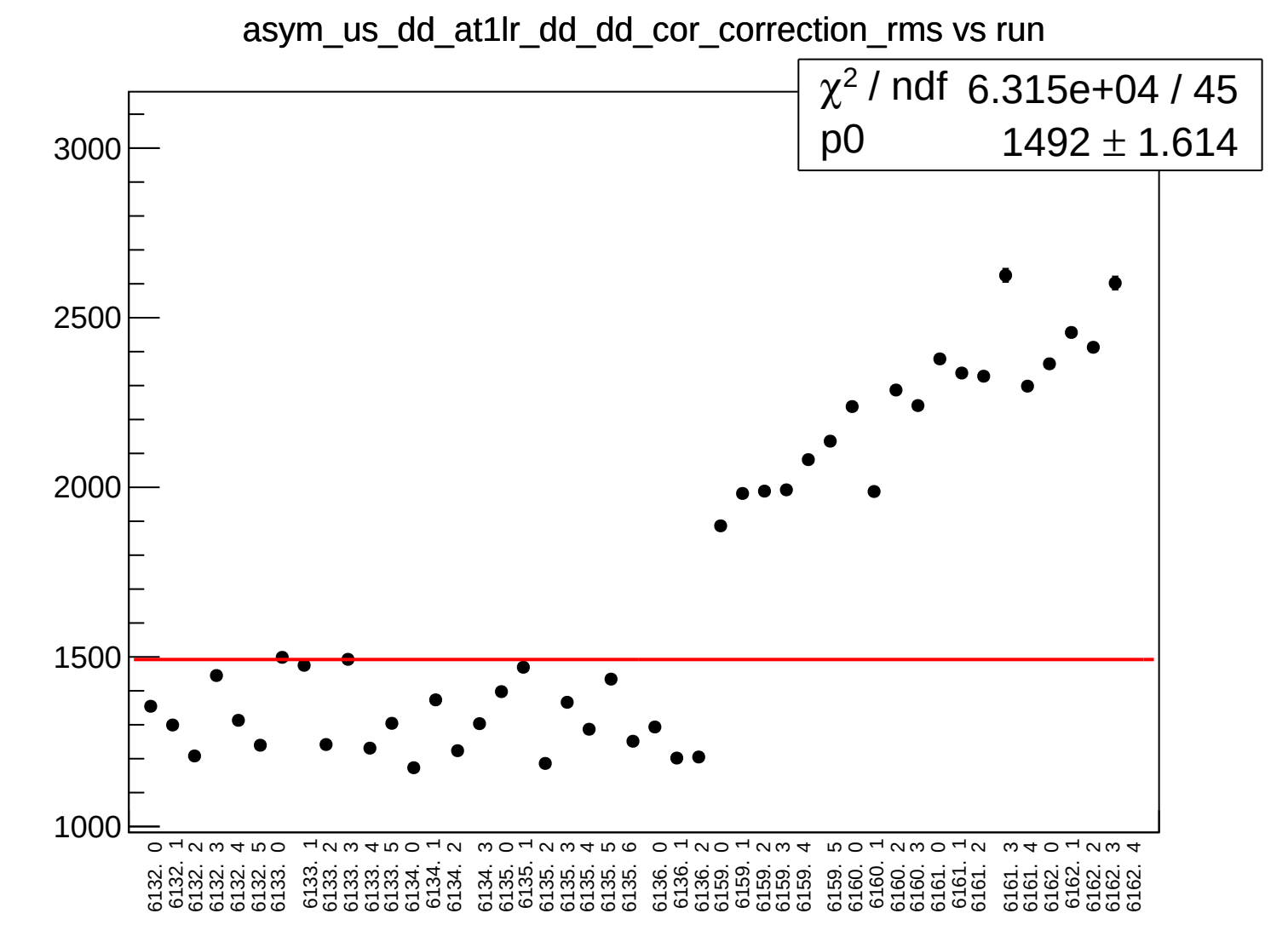
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 95.44
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.04413
Std Dev 1.051
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 6.315e+04 / 45
p0 1492 ± 1.614
3000
2500
2000
1500
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
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6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
6161. 3
6161. 4
6162. 0
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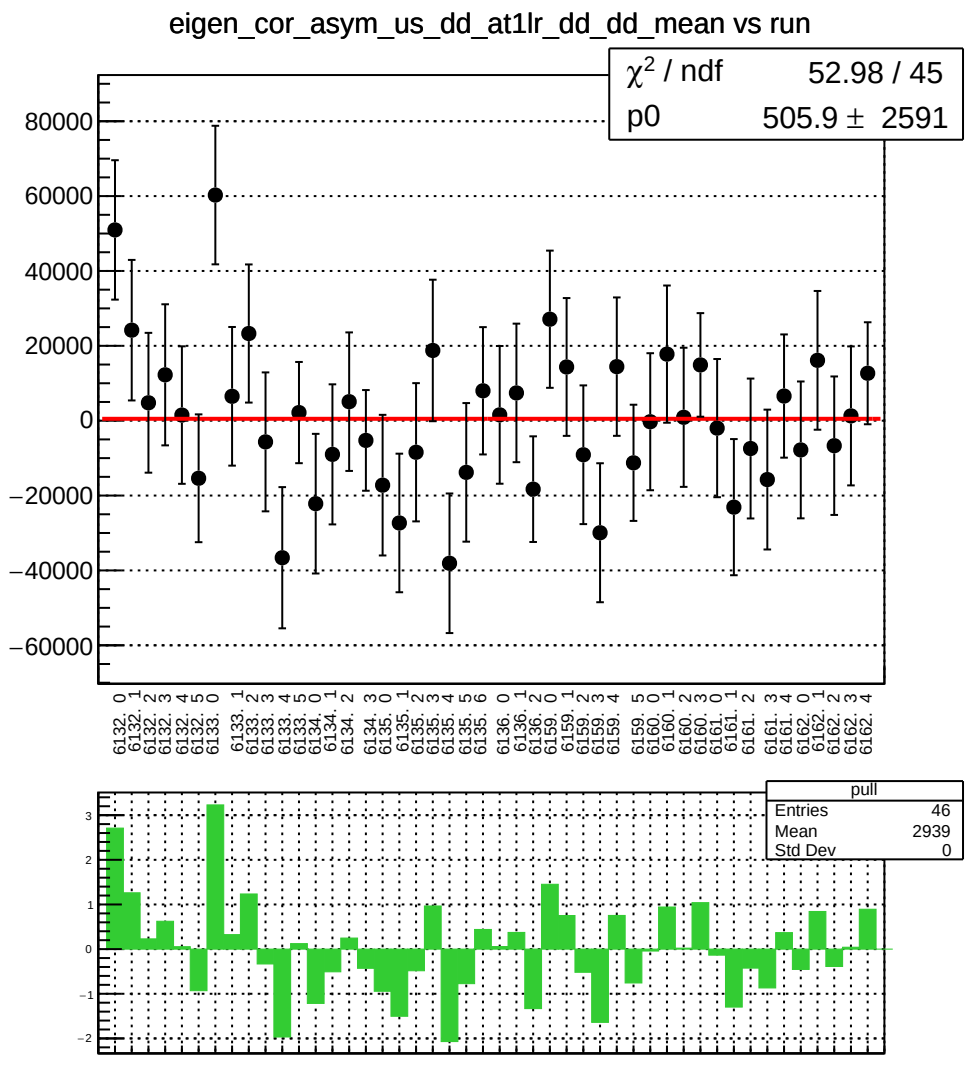
6162. 4


eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 52.98 / 45
p0 505.9 ± 2591
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
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6133. 5
6134. 0
6134. 1
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6135. 4
6135. 5
6135. 6
6136. 0
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6160. 1
6160. 2
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6161. 2
6161. 3
6161. 4
6162. 0
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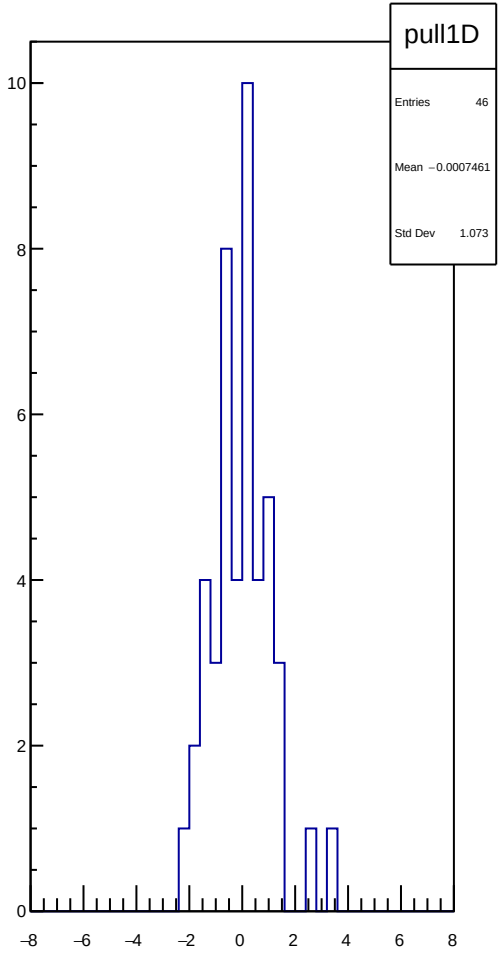
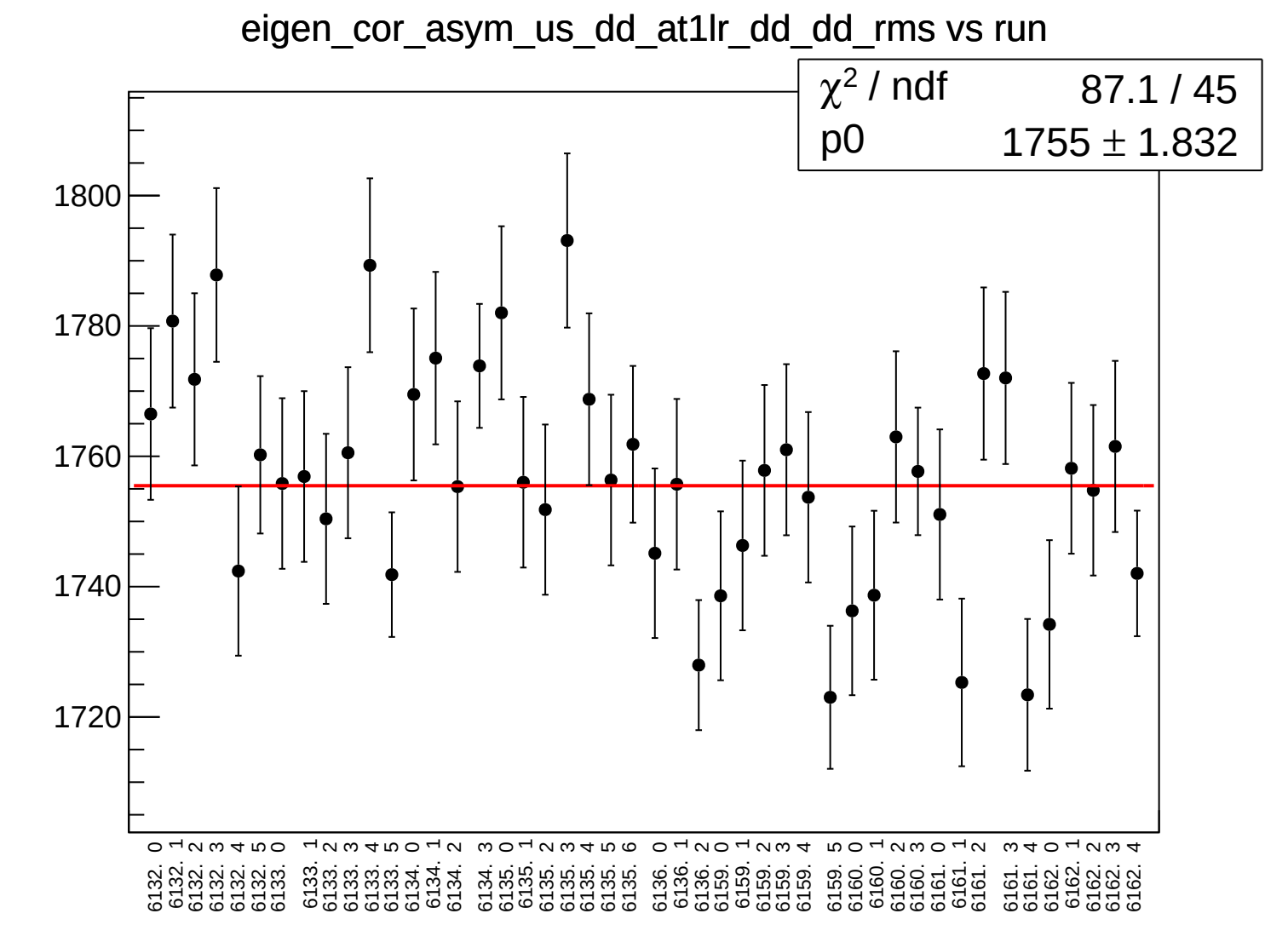
6162. 4
pull
Entries 46
Mean 2939
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.0007461
Std Dev 1.073
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 87.1 / 45
p0 1755 ± 1.832
1800
1780
1760
1740
1720
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6135. 6
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6136. 2
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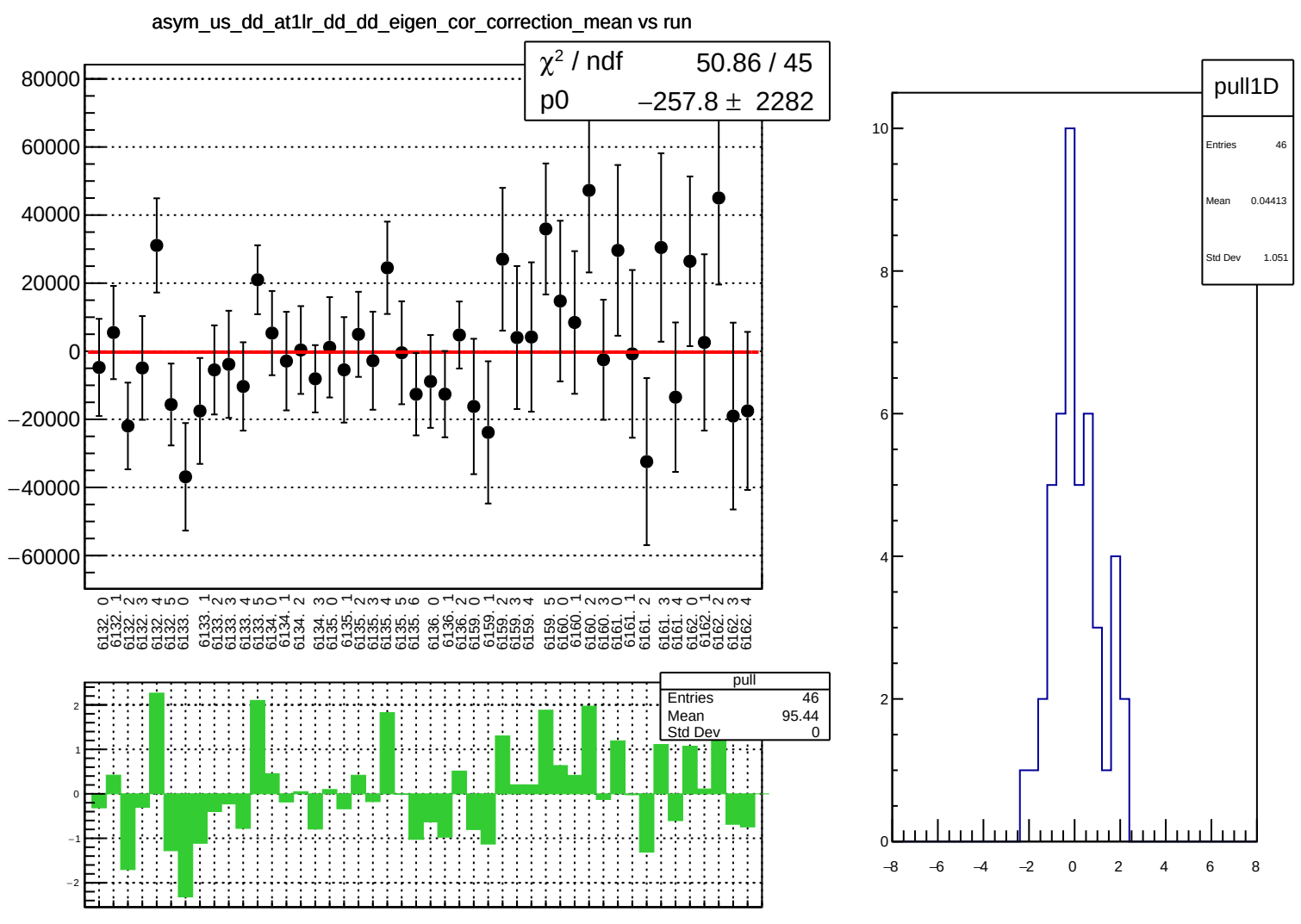
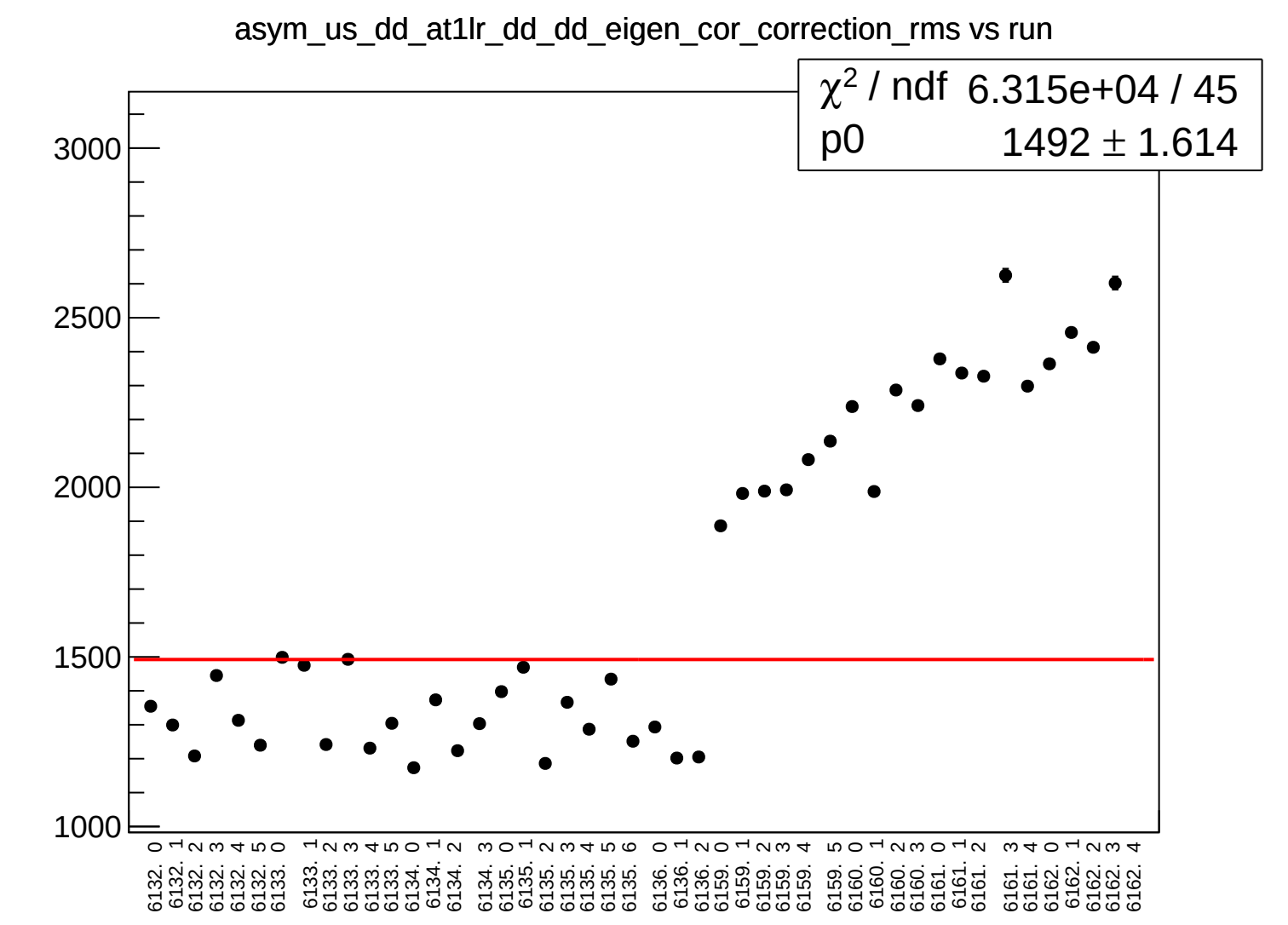

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 50.86 / 45
p0 −257.8 ± 2282
pull
Entries 46
Mean 95.44
Std Dev 0
pull1D
Entries 46
Mean 0.04413
Std Dev 1.051


asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.315e+04 / 45
p0 1492 ± 1.614
3000
2500
2000
1500
1000
6132. 0
6132. 1
6132. 2
6132. 3
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6132. 5
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6133. 2
6133. 3
6133. 4
6133. 5
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6159. 4
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6160. 2
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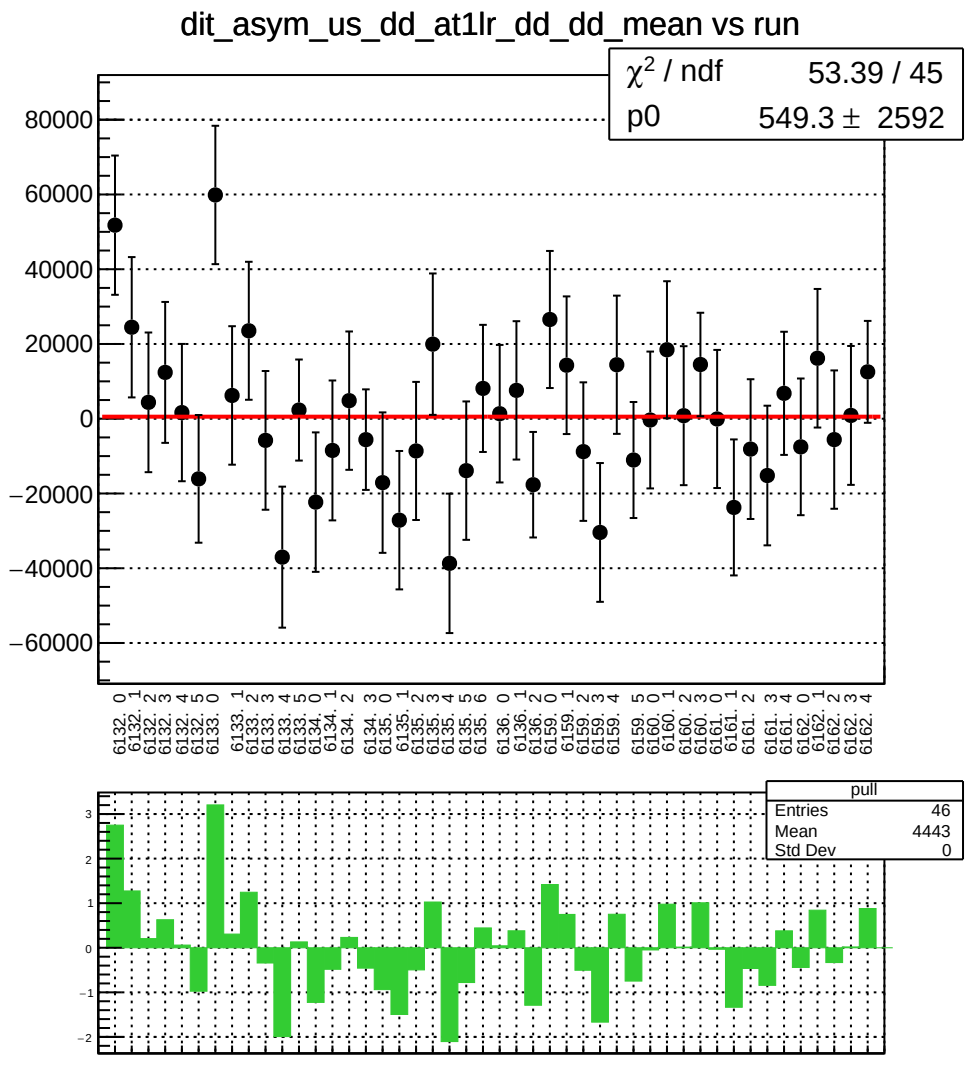
6162. 4


dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 53.39 / 45
p0 549.3 ± 2592
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
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6135. 6
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6136. 1
6136. 2
6159. 0
6159. 1
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6160. 2
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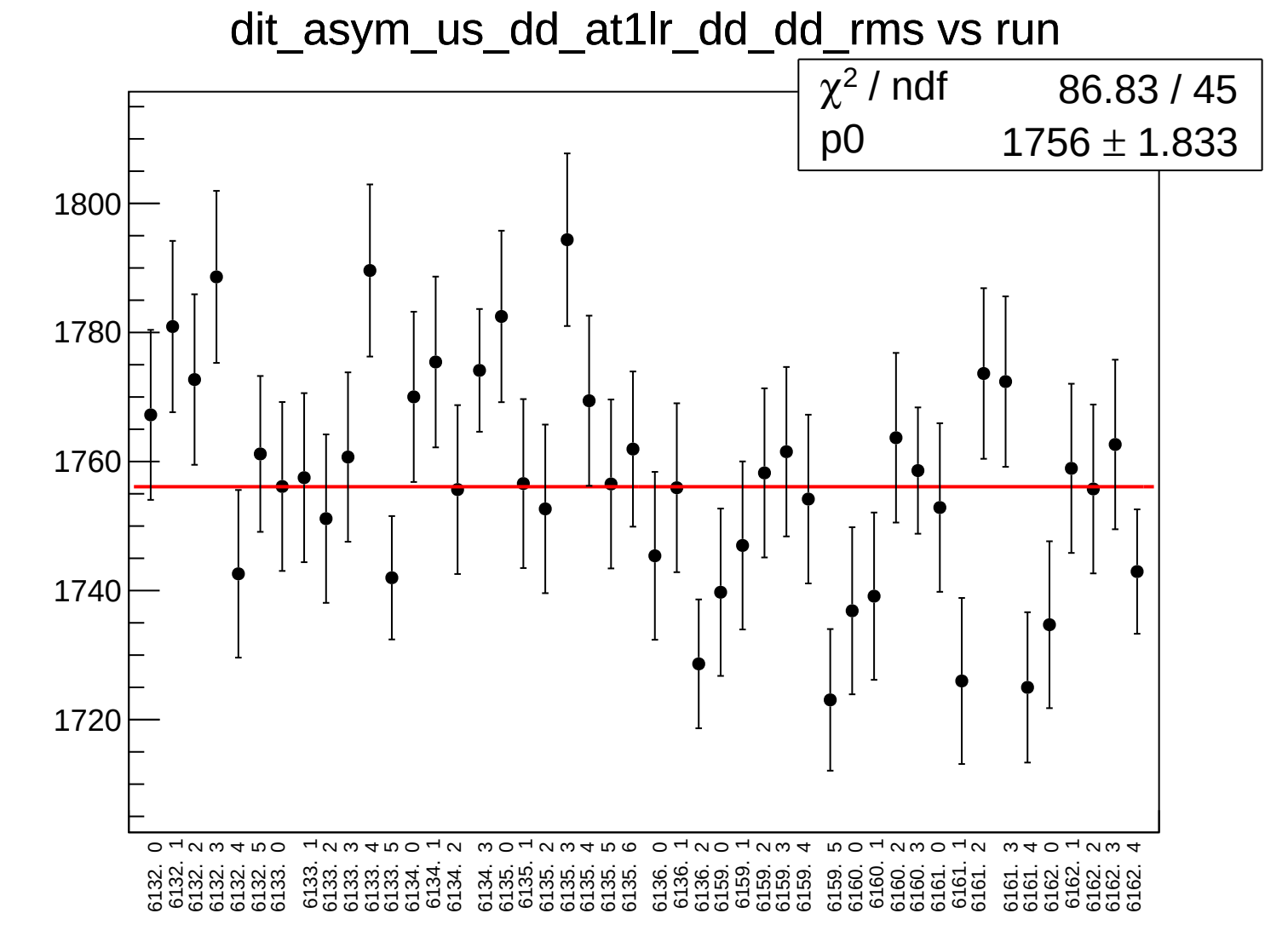
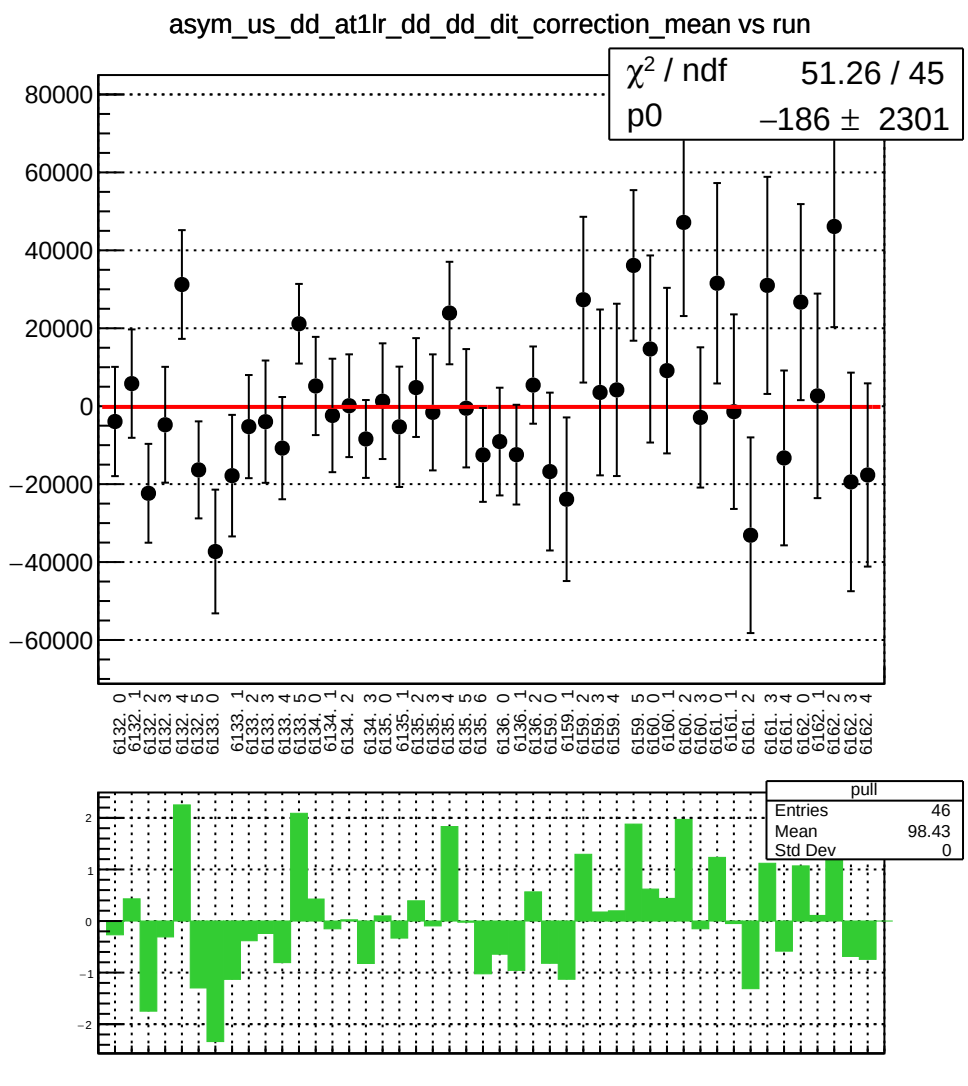
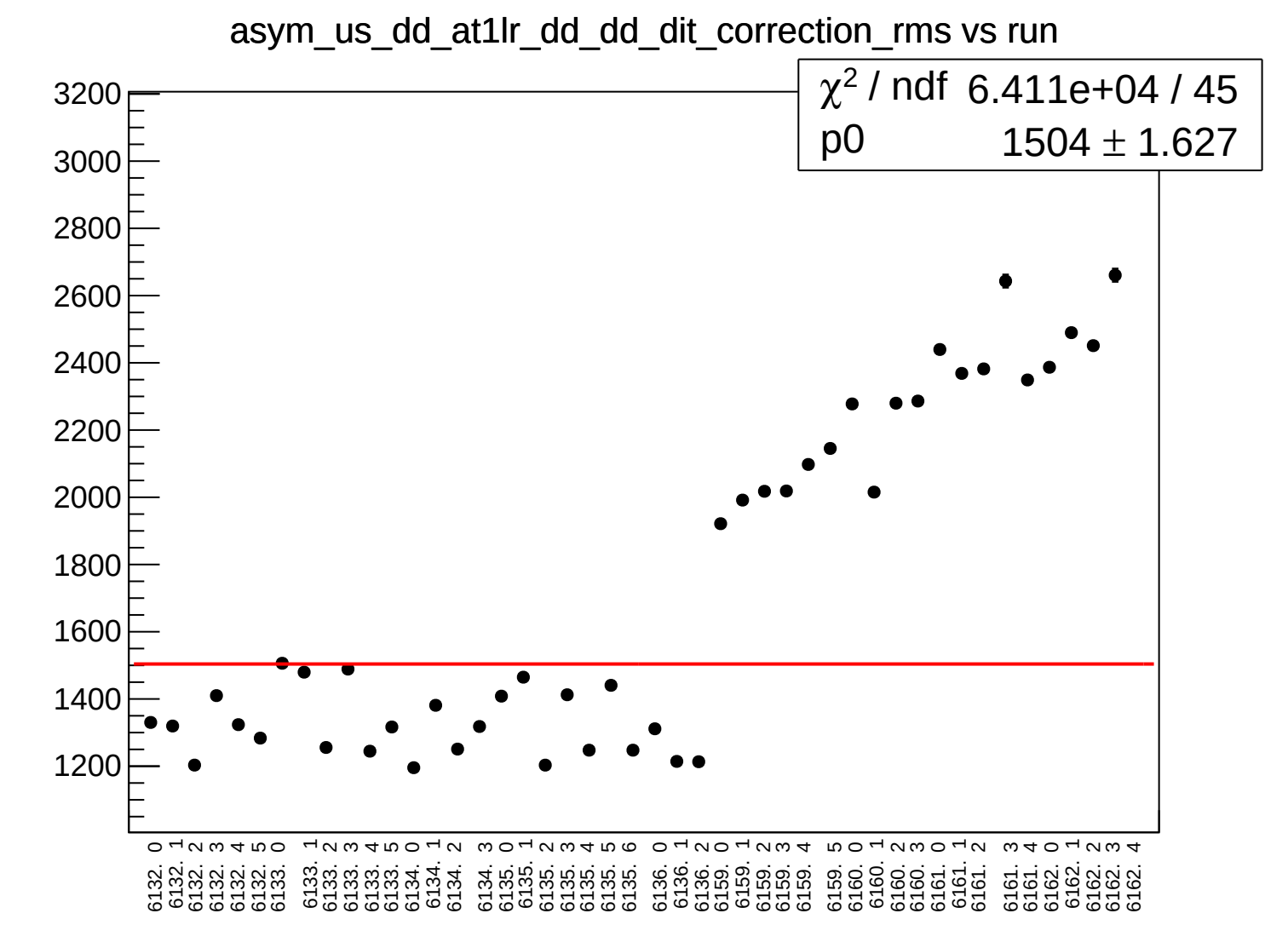
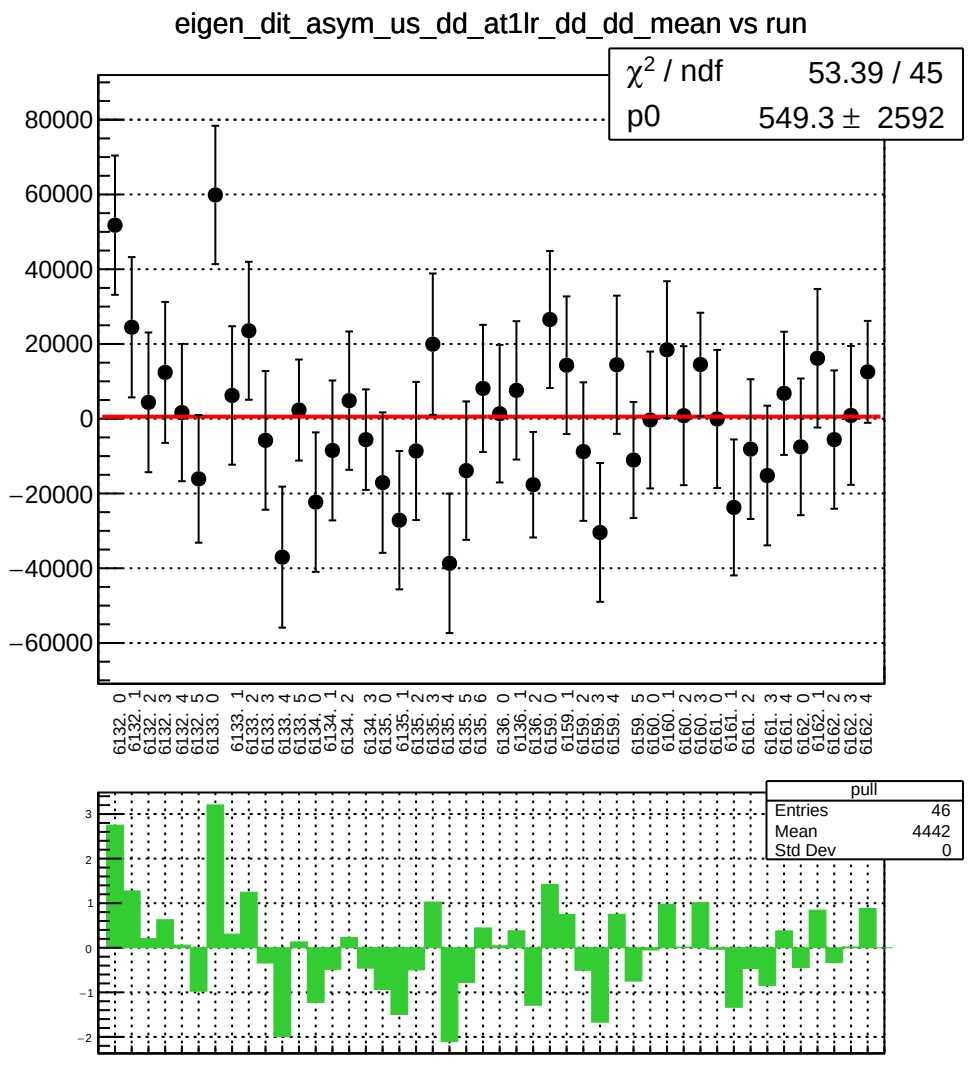
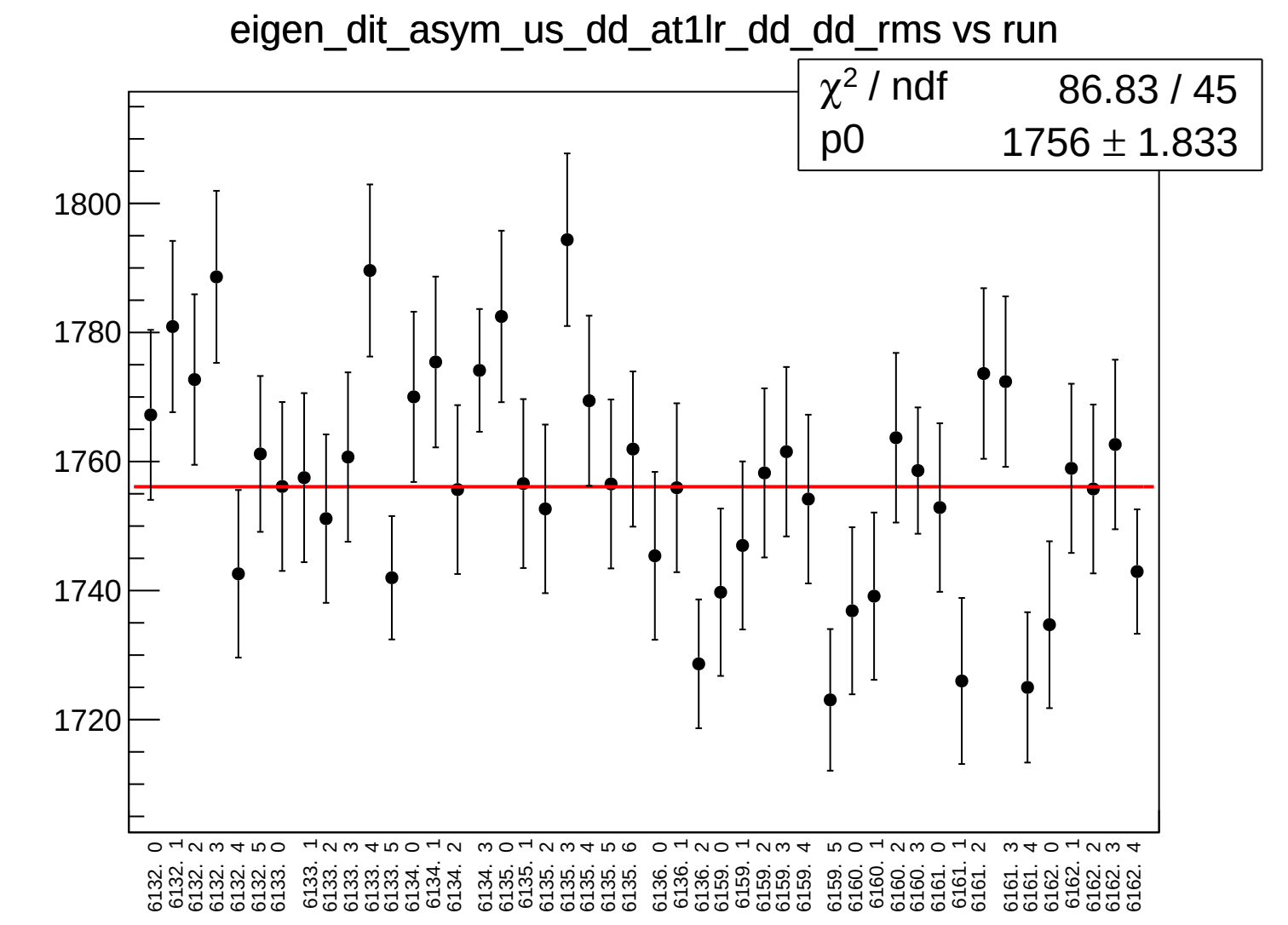
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 4443
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.0004823
Std Dev 1.077
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

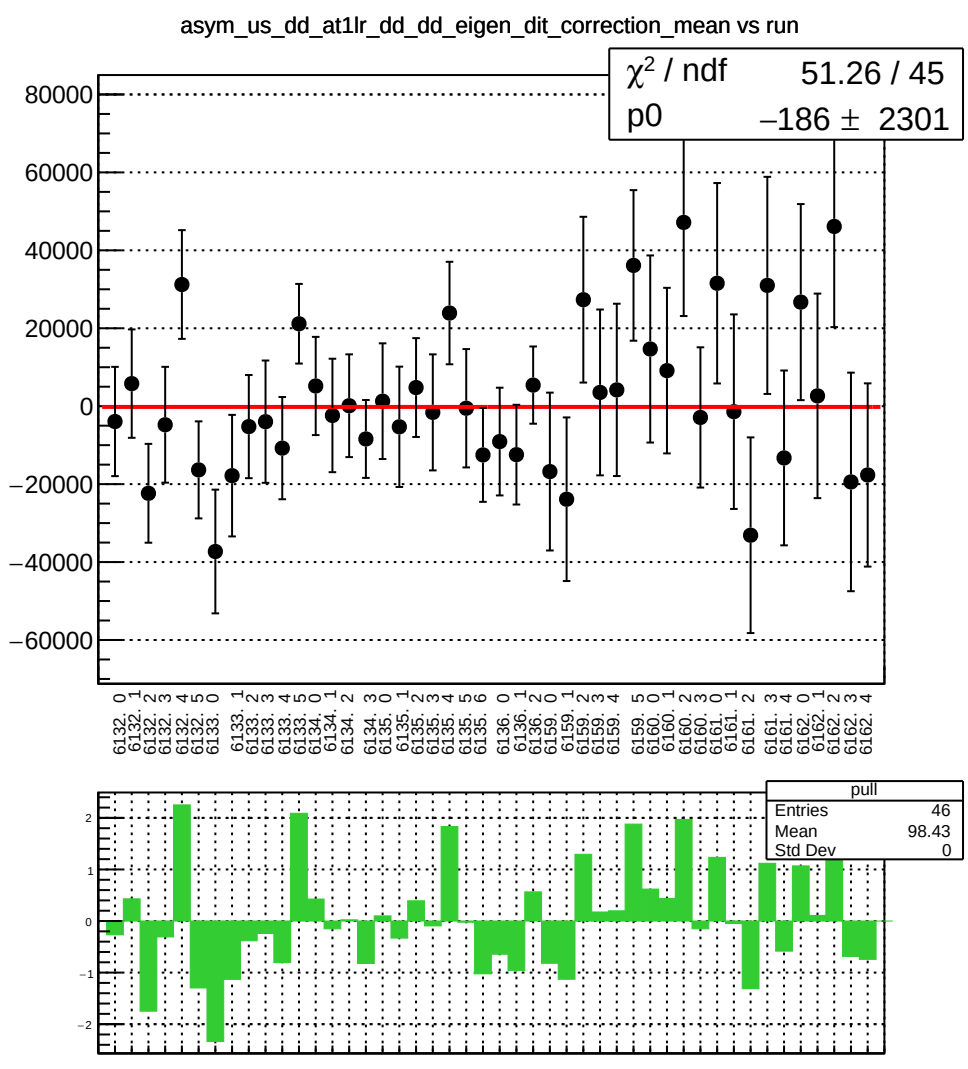

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 86.83 / 45
p0 1756 ± 1.833
1800
1780
1760
1740
1720
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

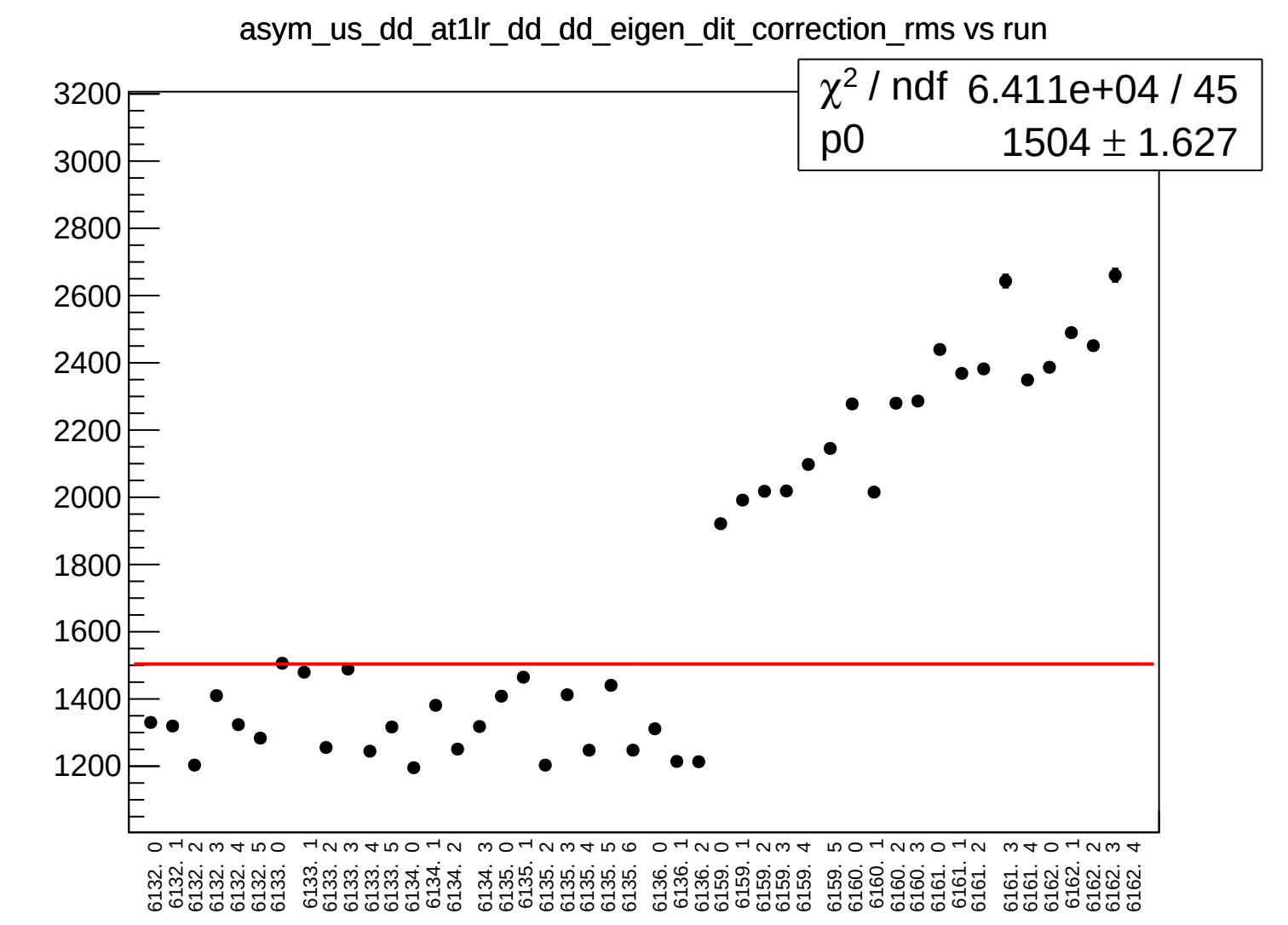

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 51.26 / 45
p0 −186 ± 2301
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 98.43
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.04293
Std Dev 1.055
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

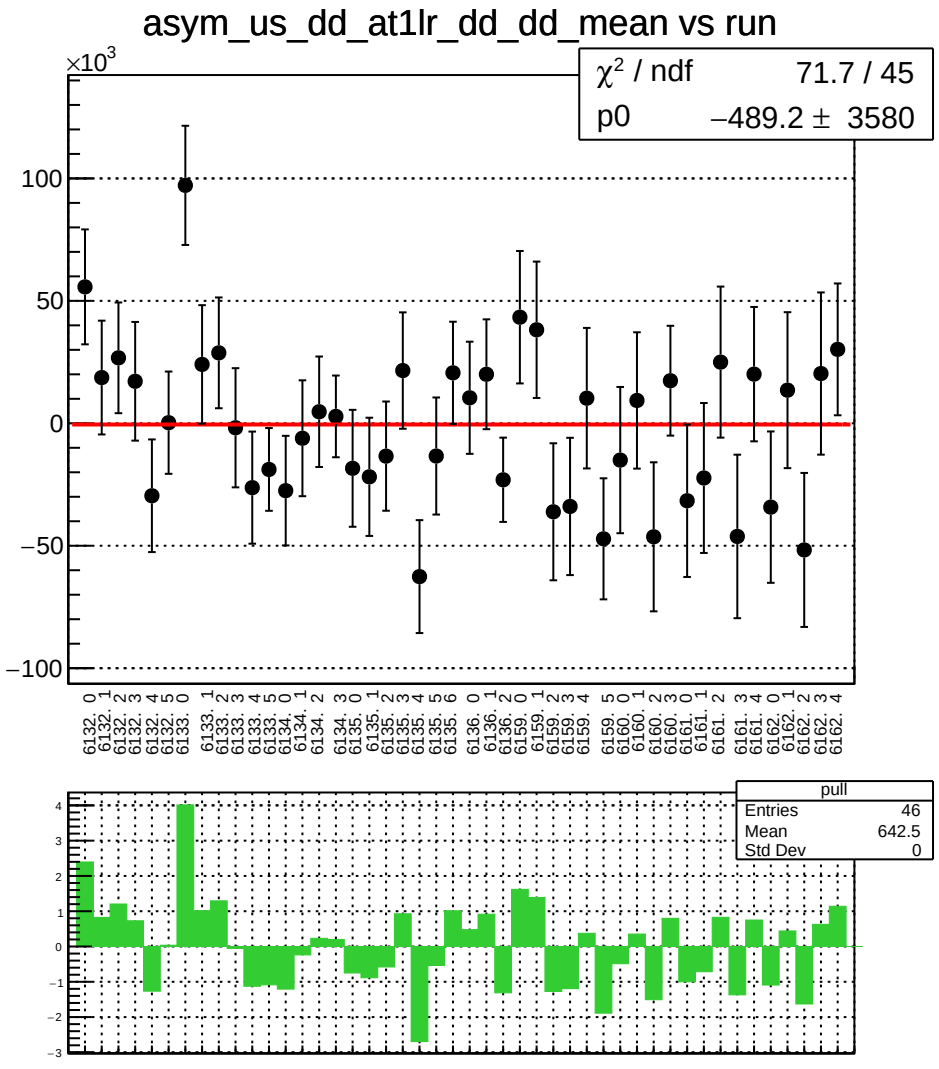

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 6.411e+04 / 45
p0 1504 ± 1.627
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

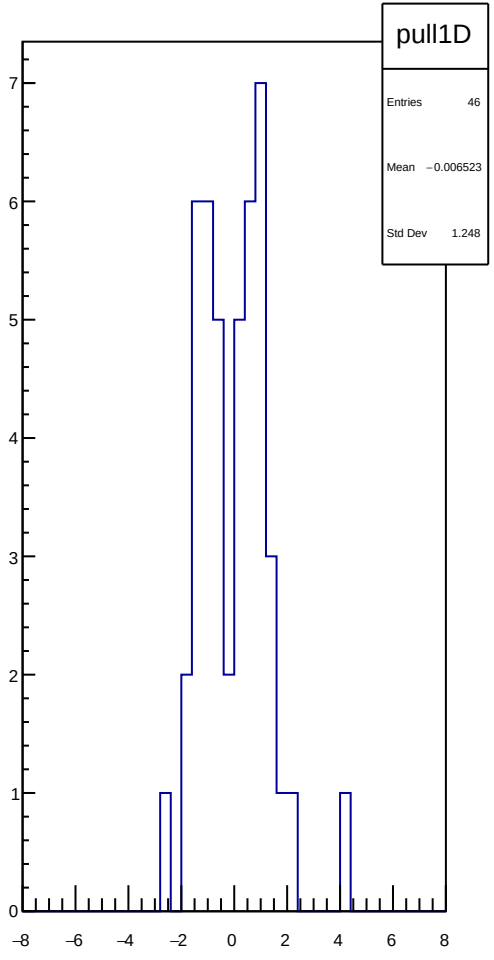

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 53.39 / 45
p0 549.3 ± 2592
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 4442
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.0004824
Std Dev 1.077
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

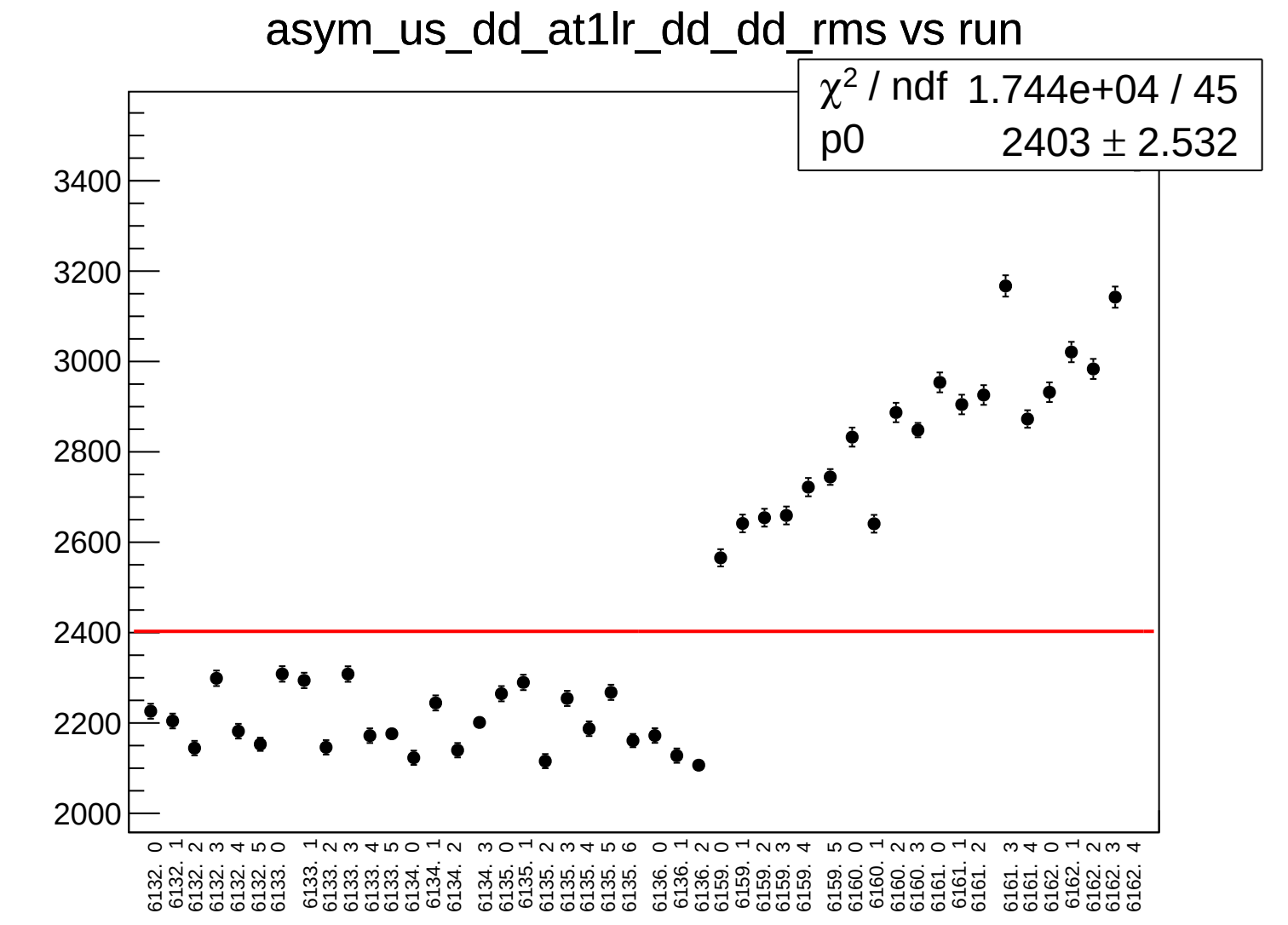

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 86.83 / 45
p0 1756 ± 1.833
1800
1780
1760
1740
1720
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

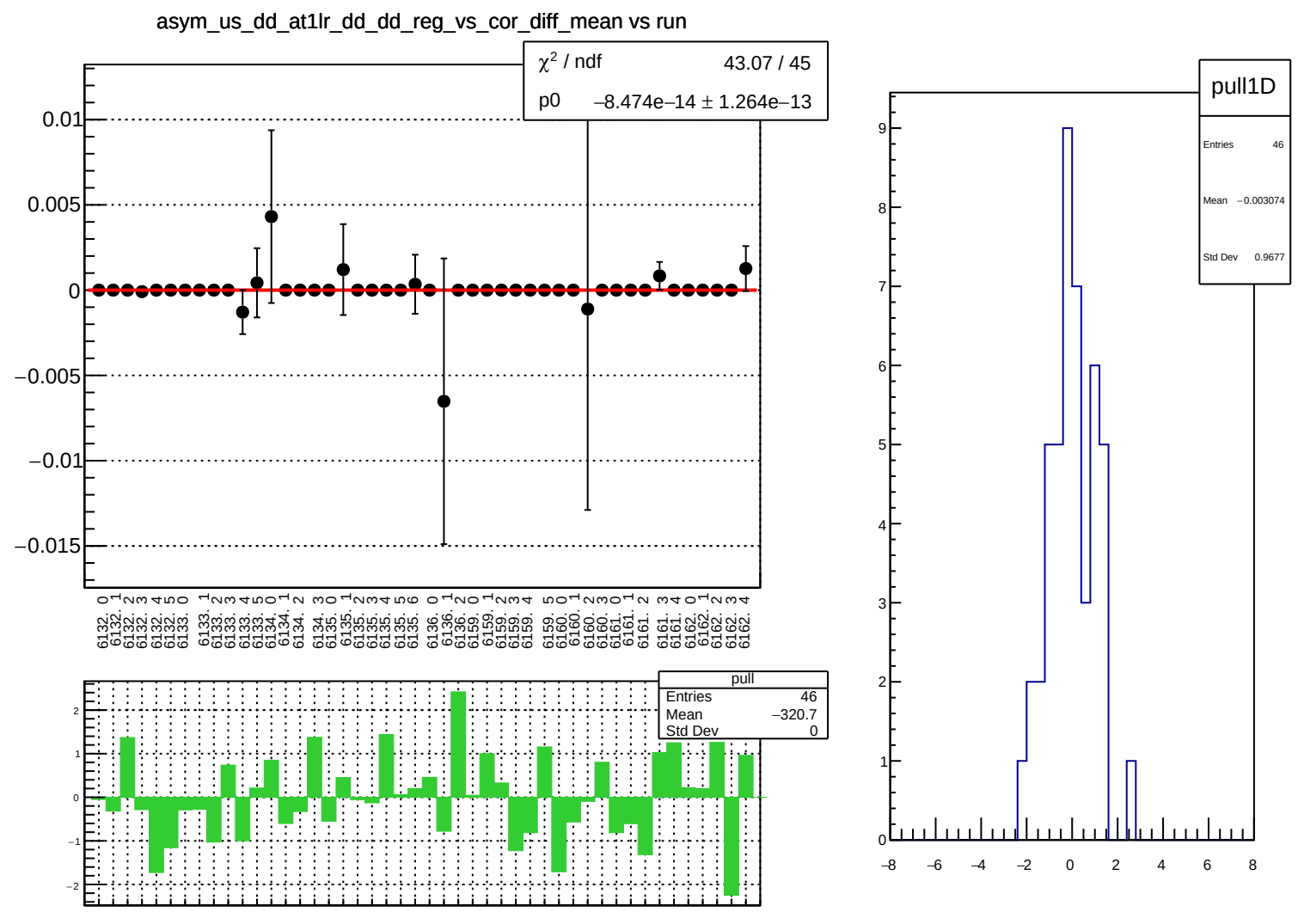

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 51.26 / 45
p0 −186 ± 2301
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 98.43
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.04293
Std Dev 1.055
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

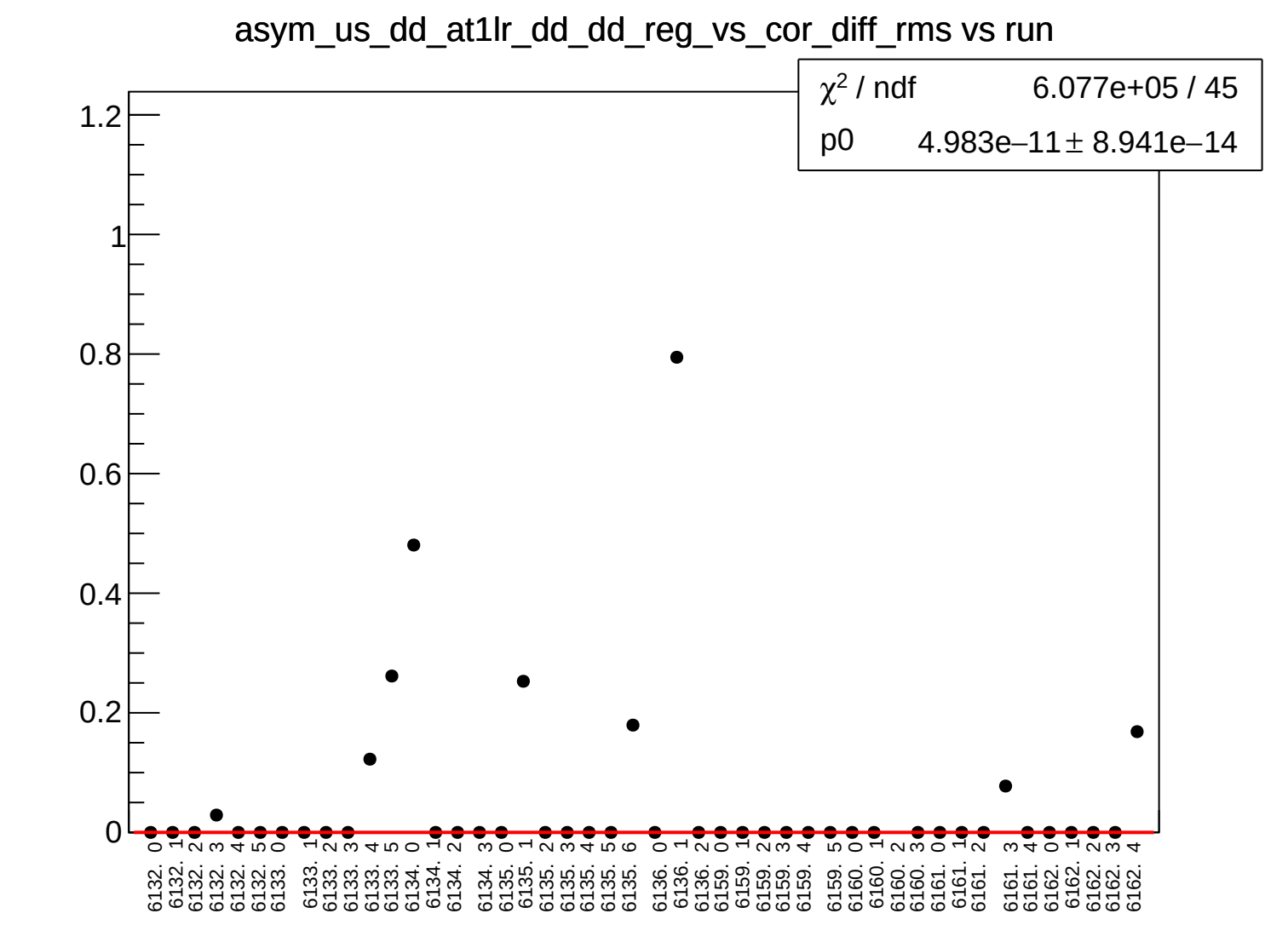

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 6.411e+04 / 45
p0 1504 ± 1.627
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

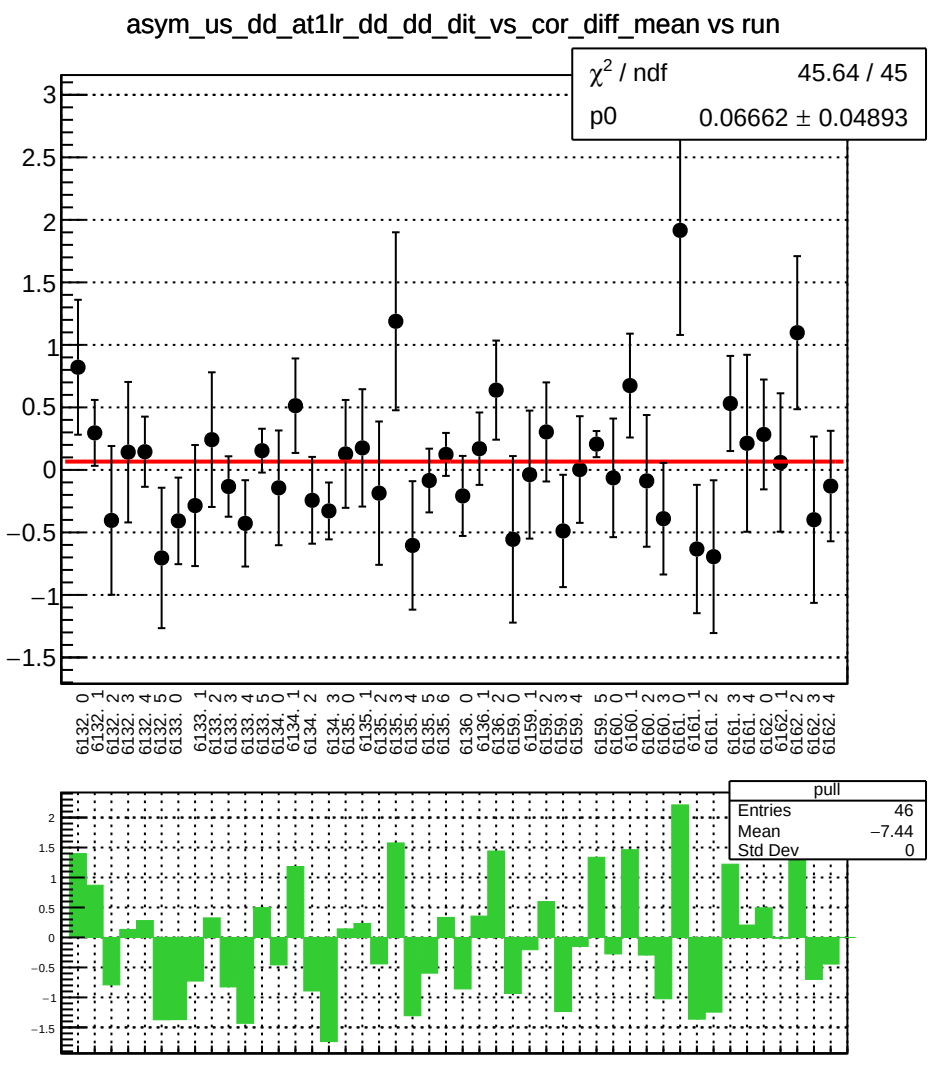

asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 71.7 / 45
p0 −489.2 ± 3580
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 642.5
Std Dev 0
4
3
2
1
0
−1
−2
−3

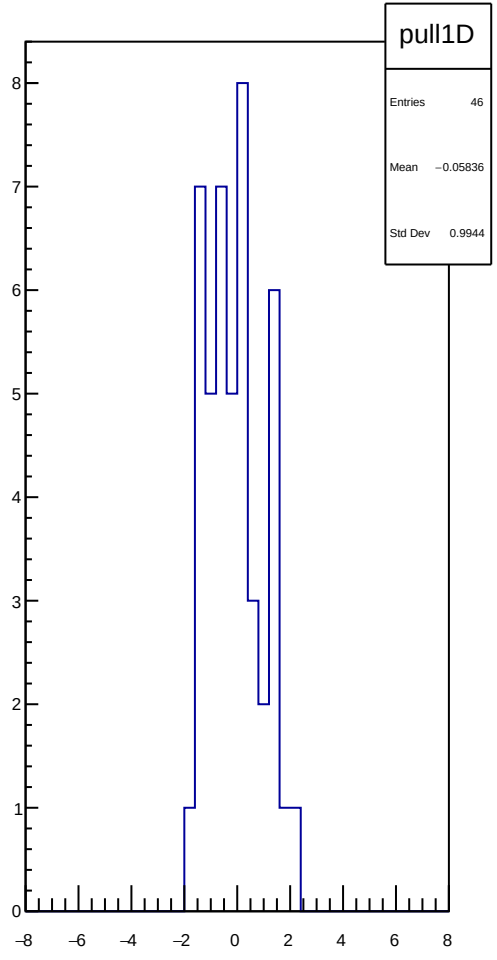

pull1D
Entries 46
Mean −0.006523
Std Dev 1.248
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

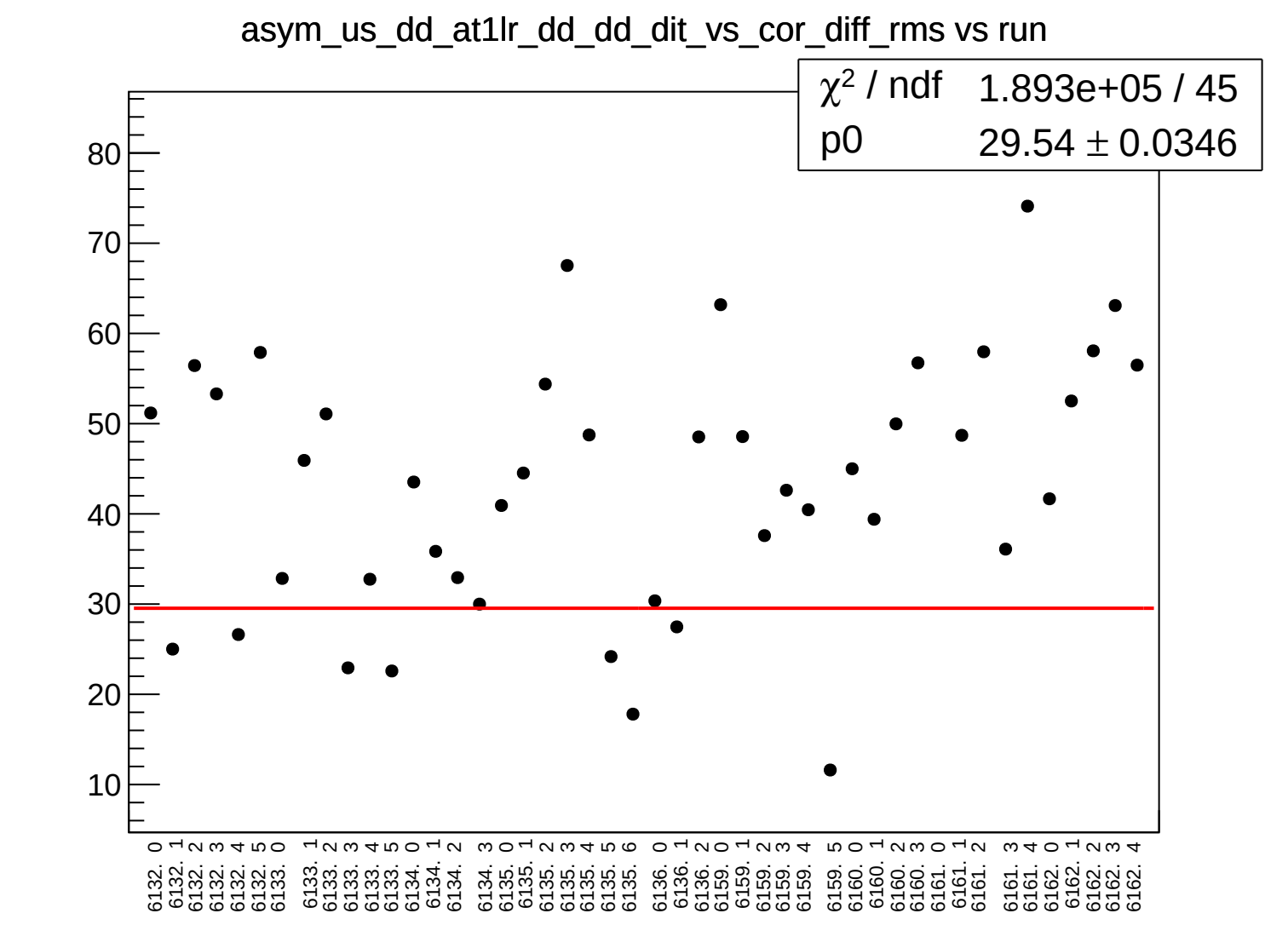

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1.744e+04 / 45
p0 2403 ± 2.532
3400
3200
3000
2800
2600
2400
2200
2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 43.07 / 45
p0 −8.474e−14 ± 1.264e−13
0.01
0.005
0
−0.005
−0.01
−0.015
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −320.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.003074
Std Dev 0.9677
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.077e+05 / 45
p0 4.983e−11 ± 8.941e−14
1.2
1
0.8
0.6
0.4
0.2
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 45.64 / 45
p0 0.06662 ± 0.04893
pull
Entries 46
Mean −7.44
Std Dev 0


pull1D
Entries 46
Mean −0.05836
Std Dev 0.9944


asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.893e+05 / 45
p0 29.54 ± 0.0346
80
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
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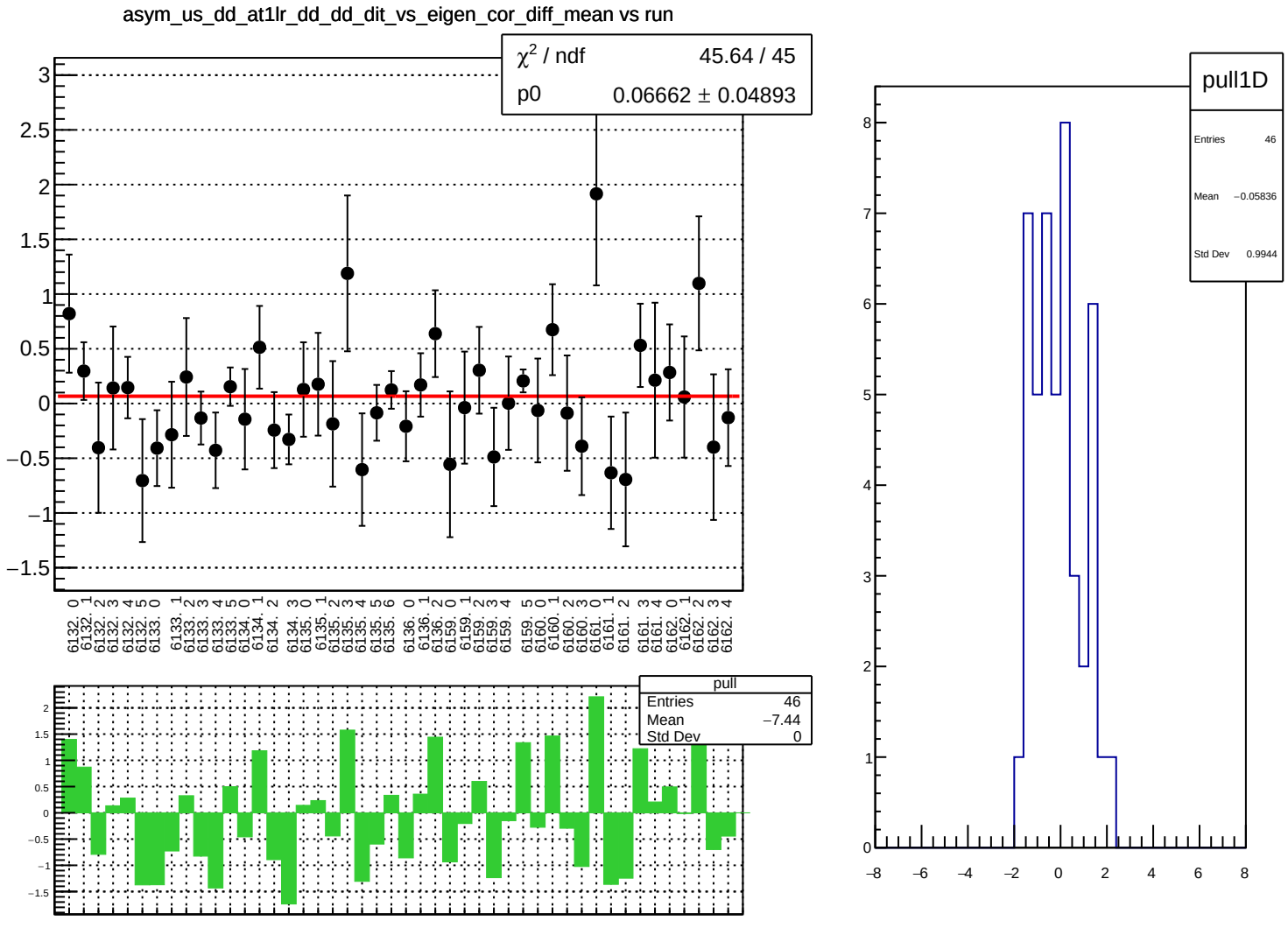
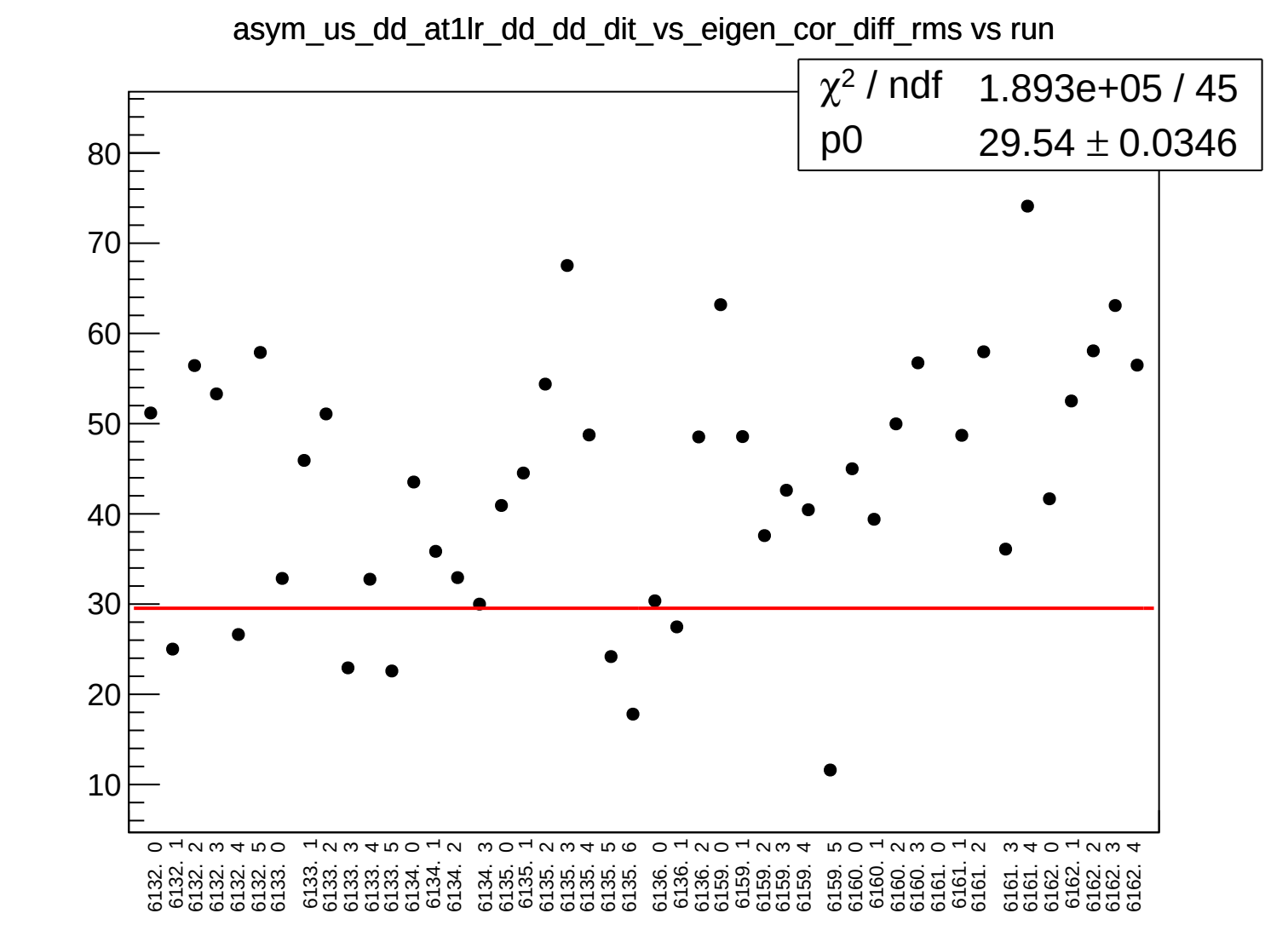
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.64 / 45
p0 0.06662 ± 0.04893
pull
Entries 46
Mean −7.44
Std Dev 0
pull1D
Entries 46
Mean −0.05836
Std Dev 0.9944


asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.893e+05 / 45
p0 29.54 ± 0.0346
80
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6135. 5
6135. 6
6136. 0
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6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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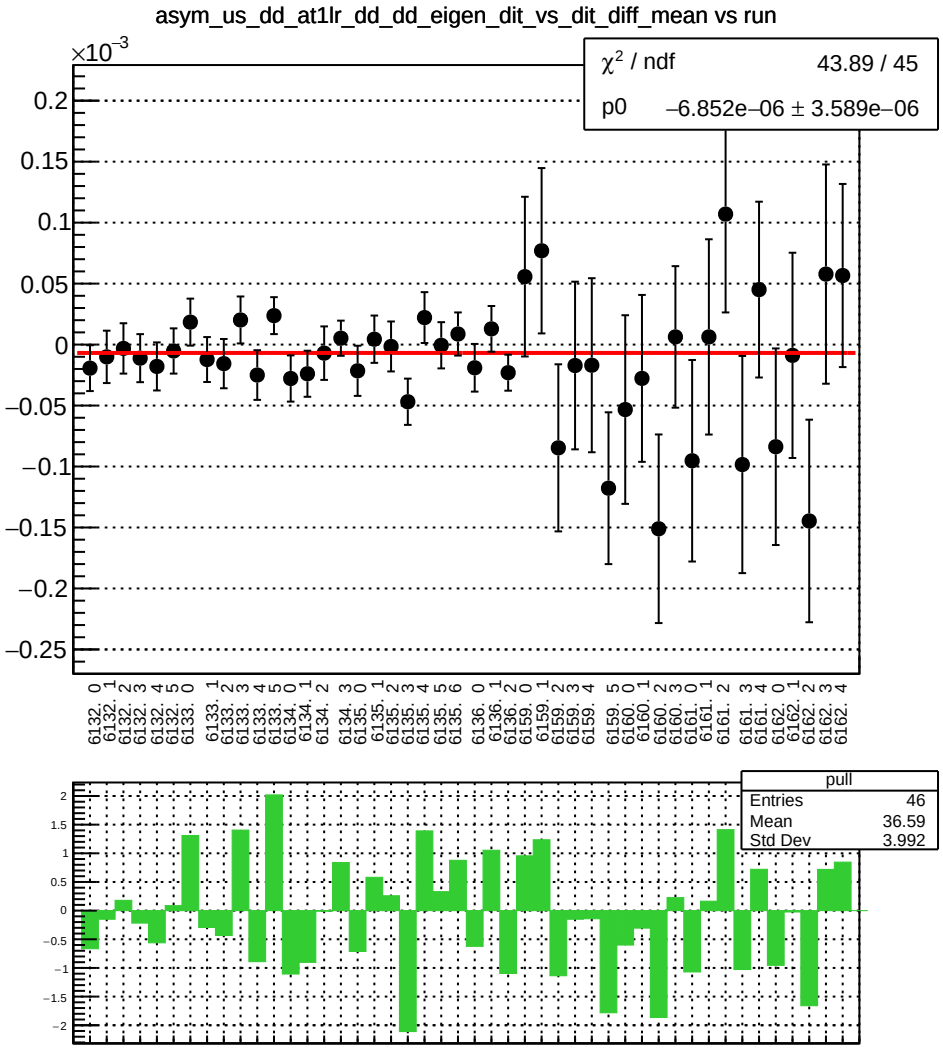
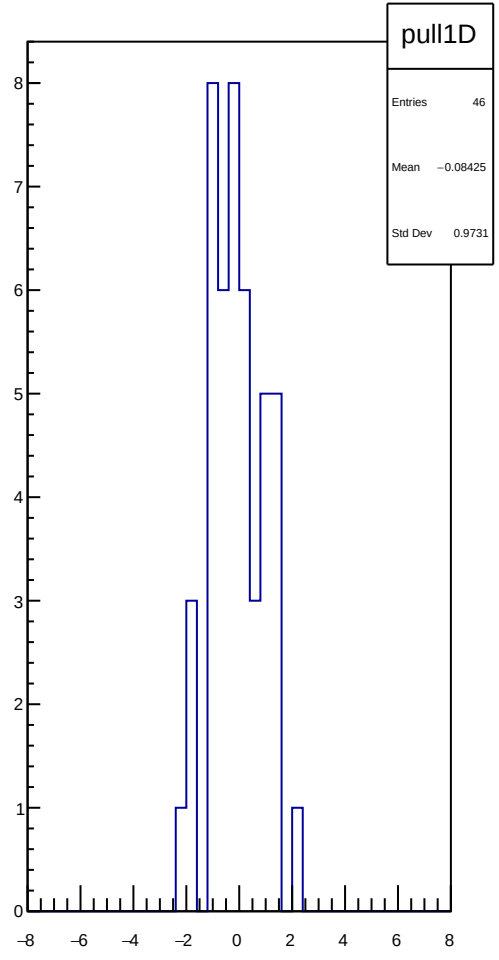
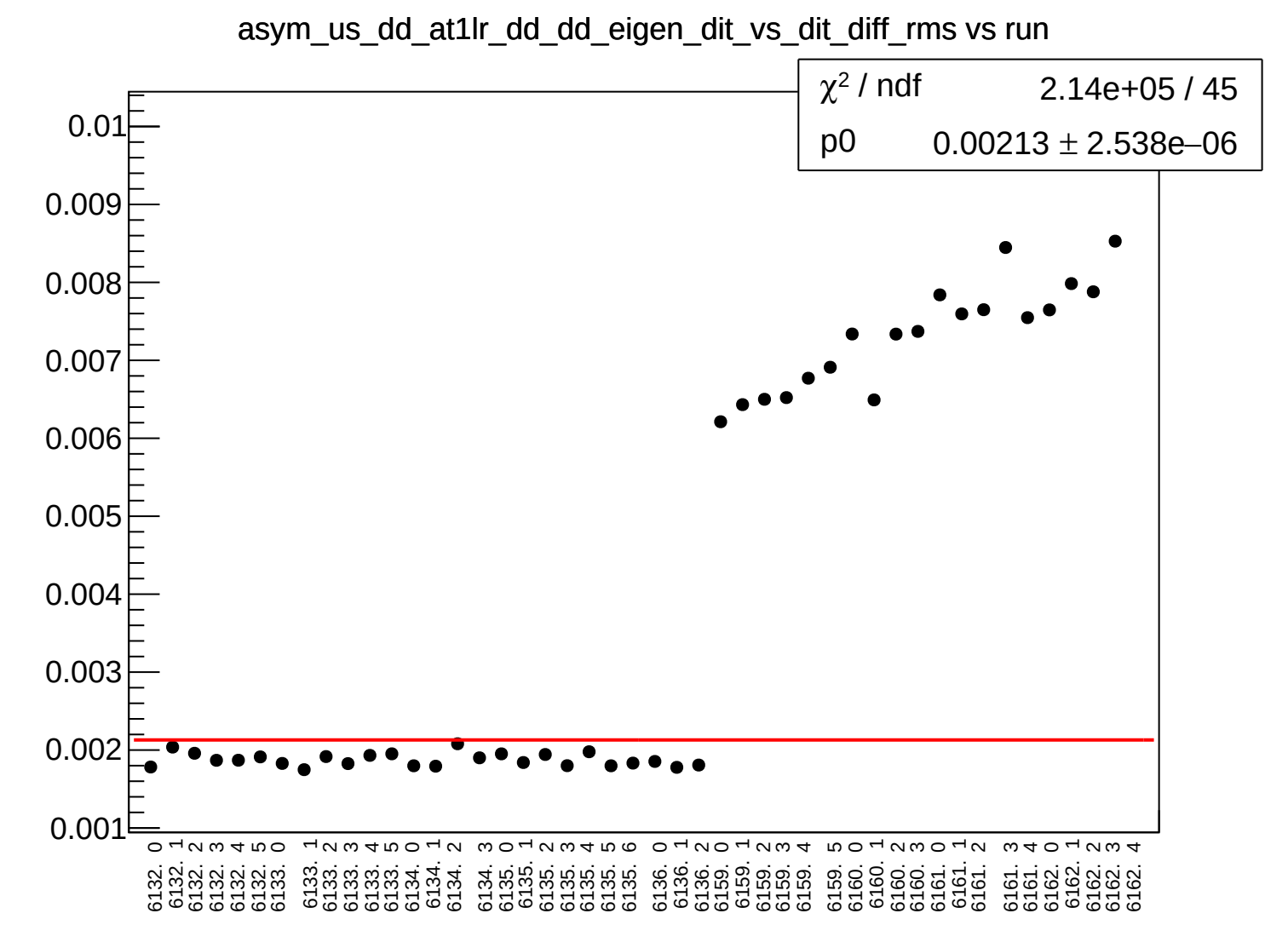
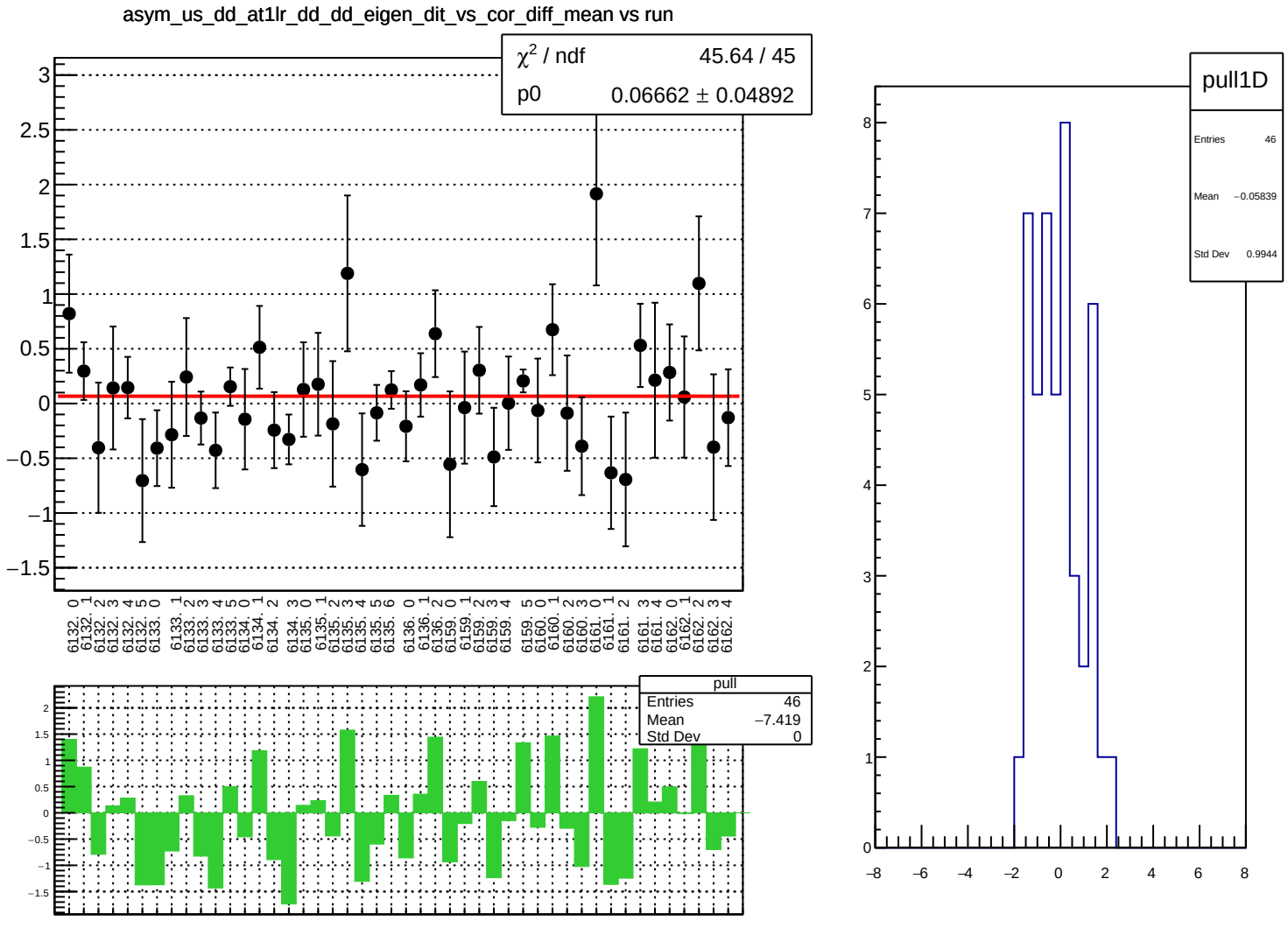
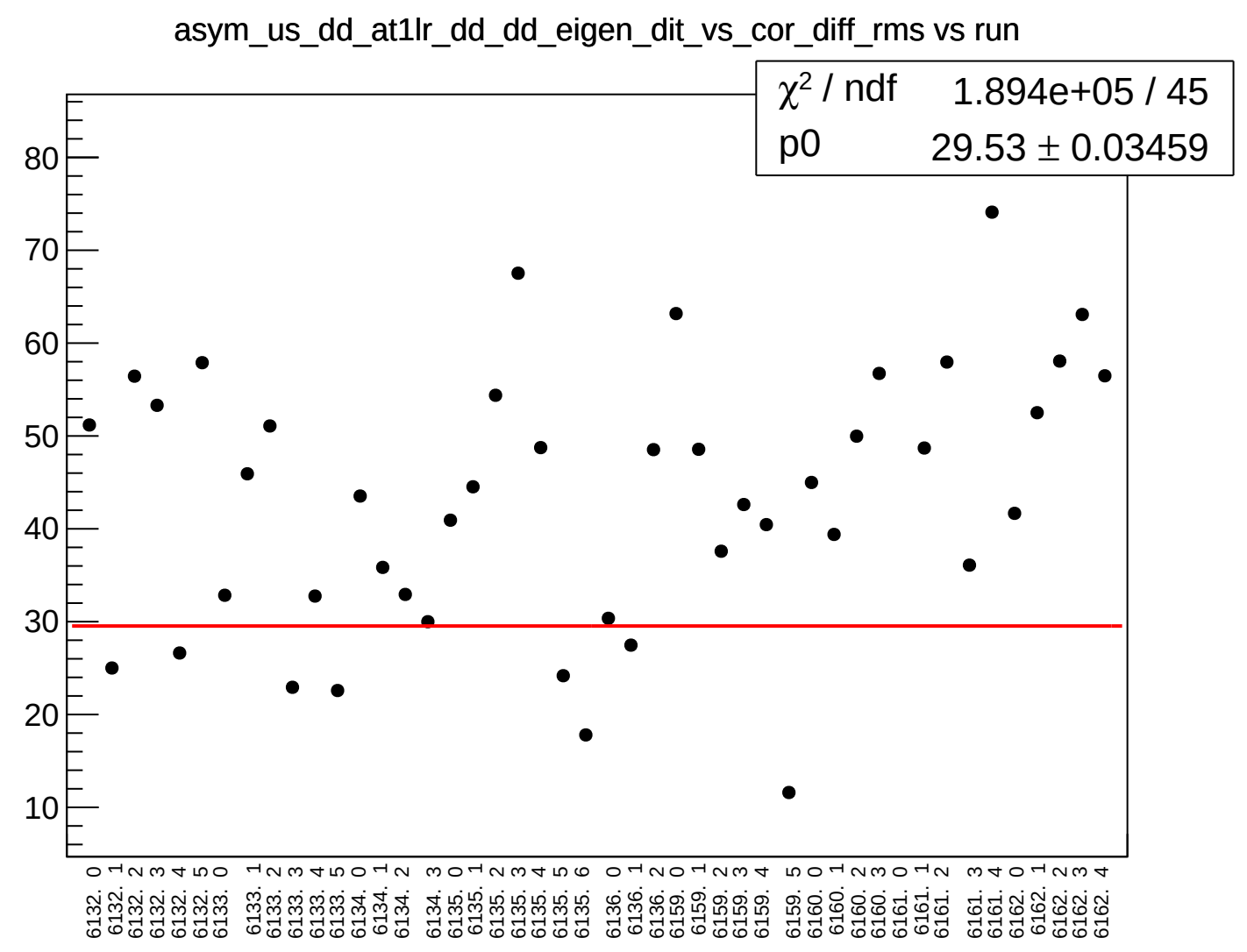
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

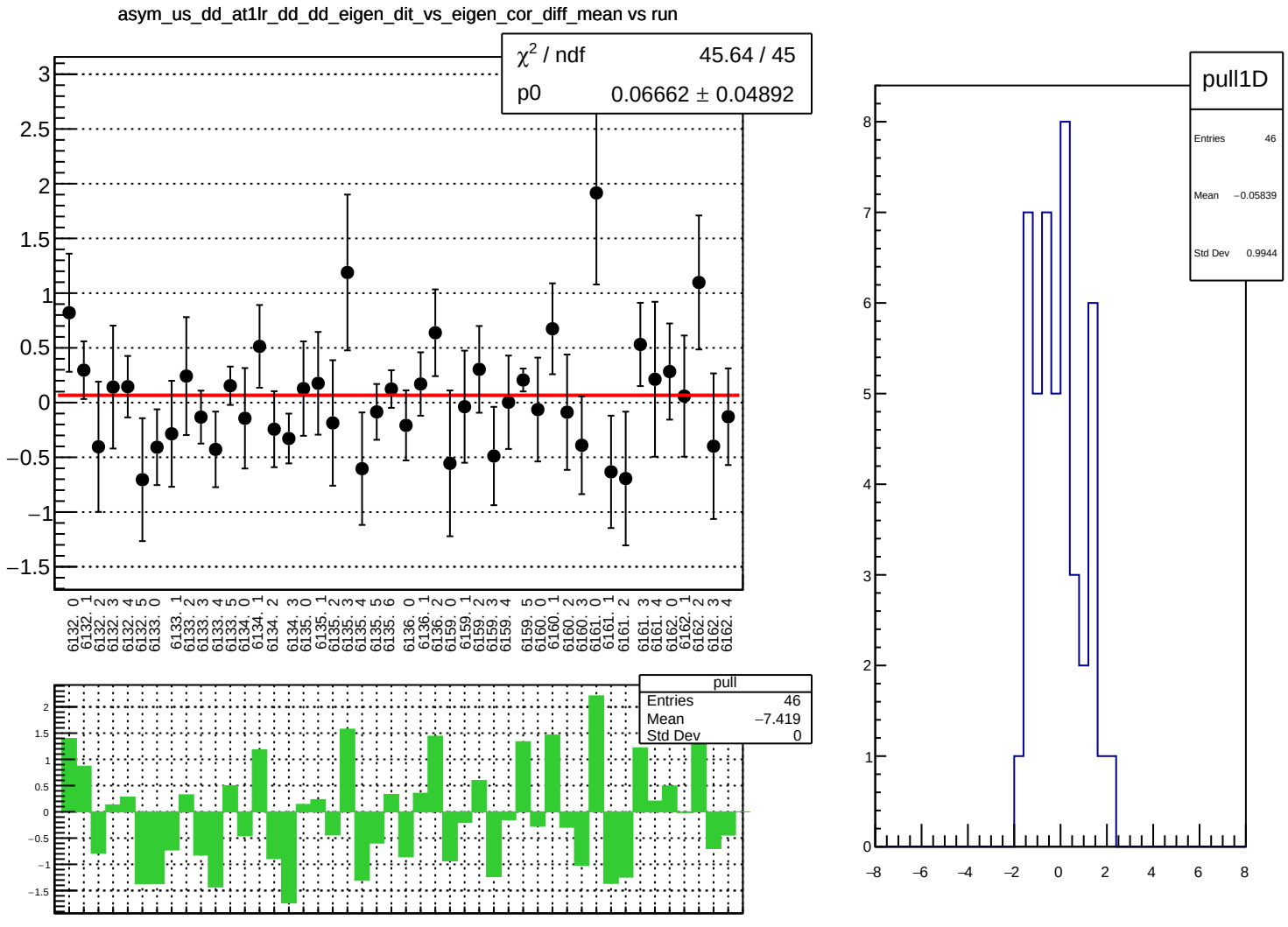

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 43.89 / 45
p0 −6.852e−06 ± 3.589e−06
pull
Entries 46
Mean 36.59
Std Dev 3.992

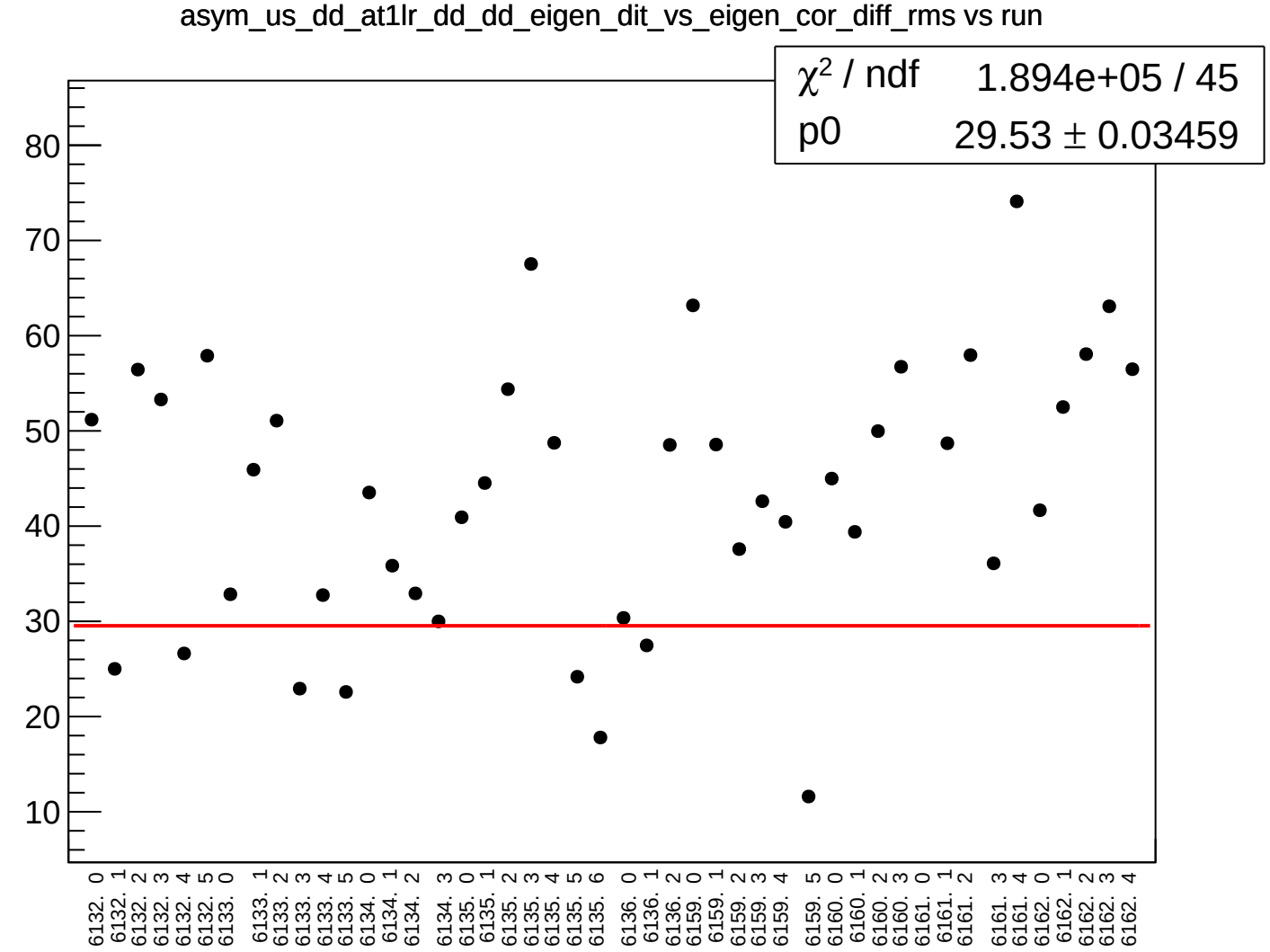

pull1D
Entries 46
Mean −0.08425
Std Dev 0.9731

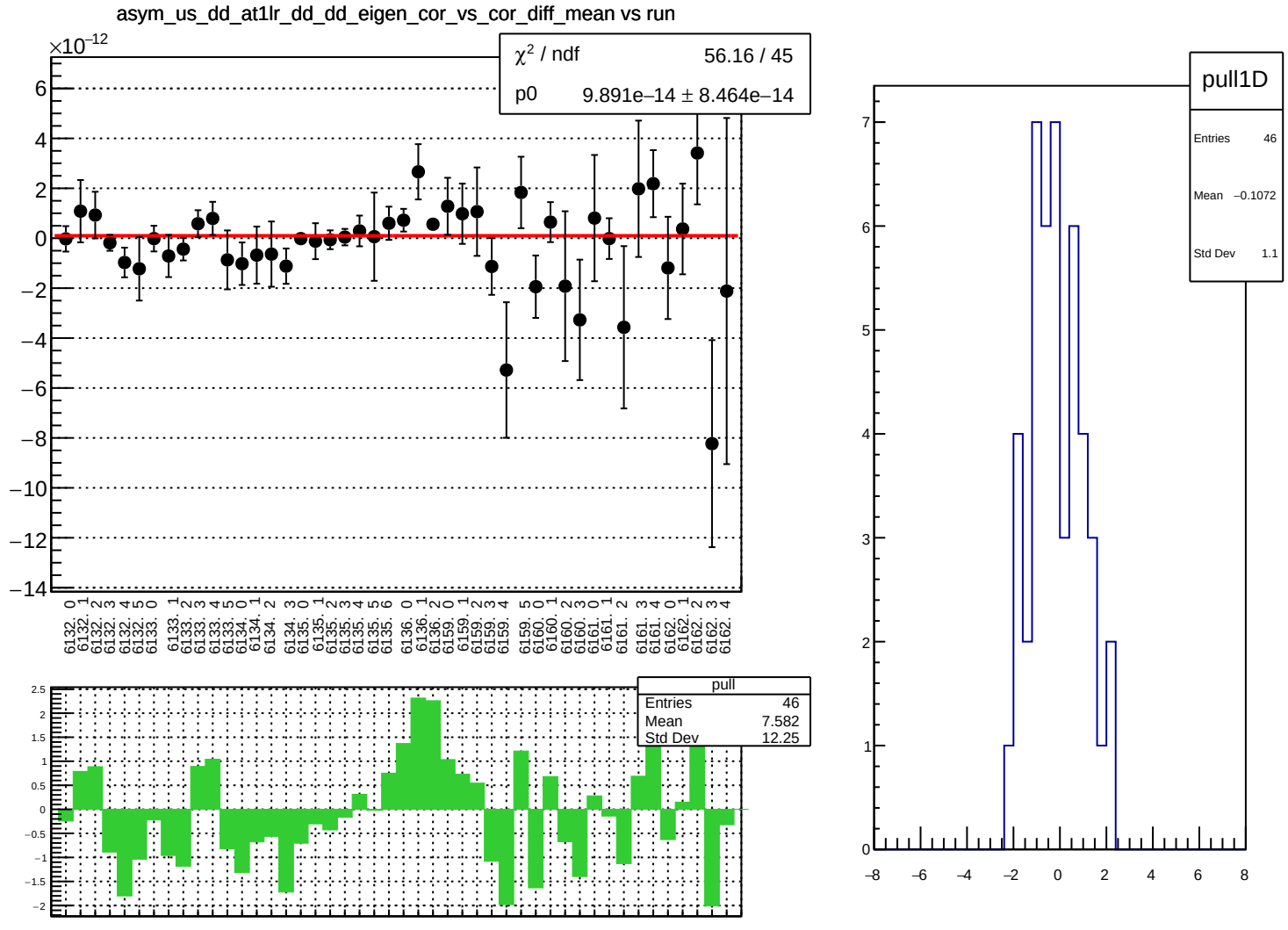

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.14e+05 / 45
p0 0.00213 ± 2.538e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

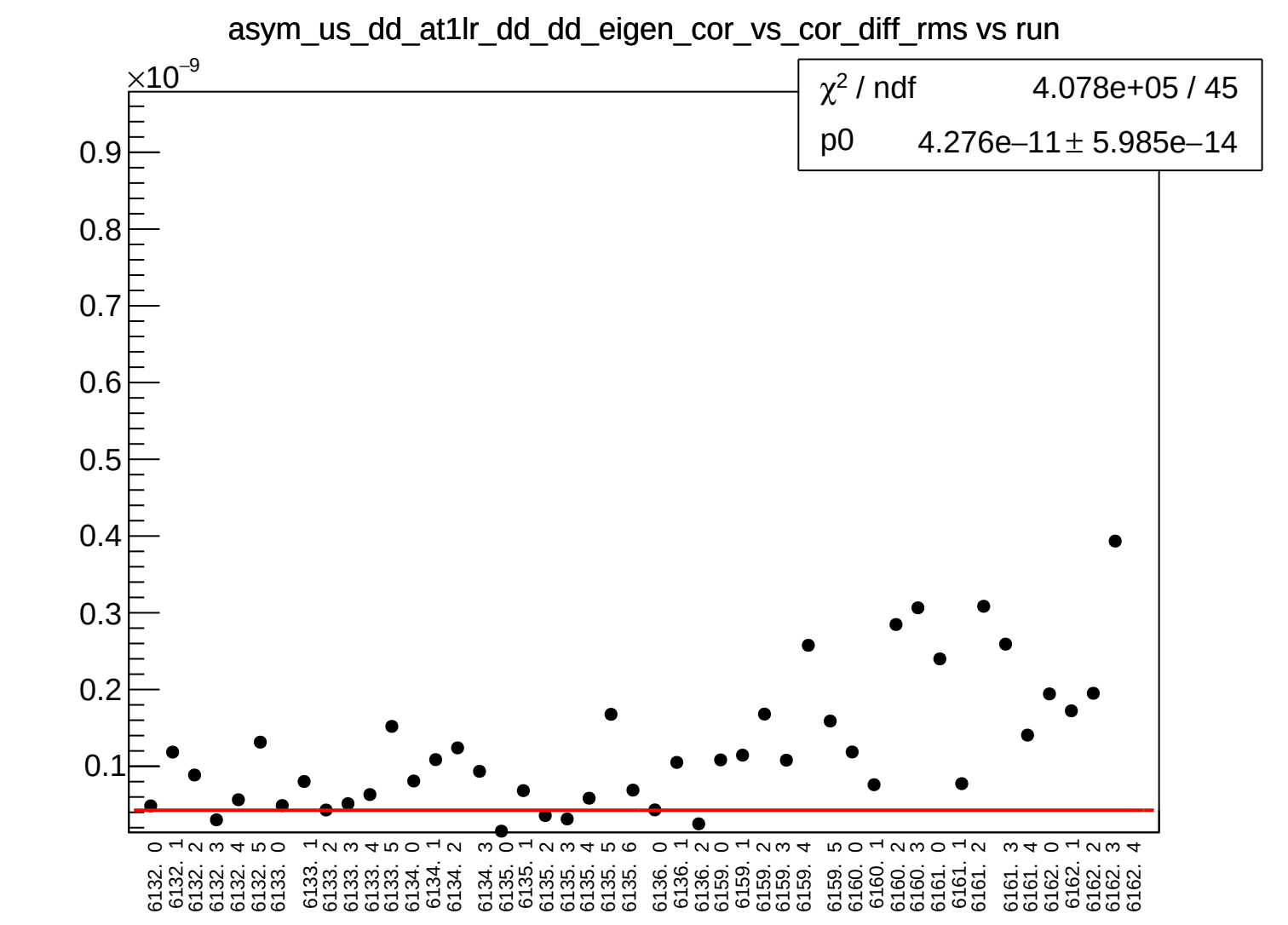

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 45.64 / 45
p0 0.06662 ± 0.04892
pull
Entries 46
Mean −7.419
Std Dev 0
pull1D
Entries 46
Mean −0.05839
Std Dev 0.9944

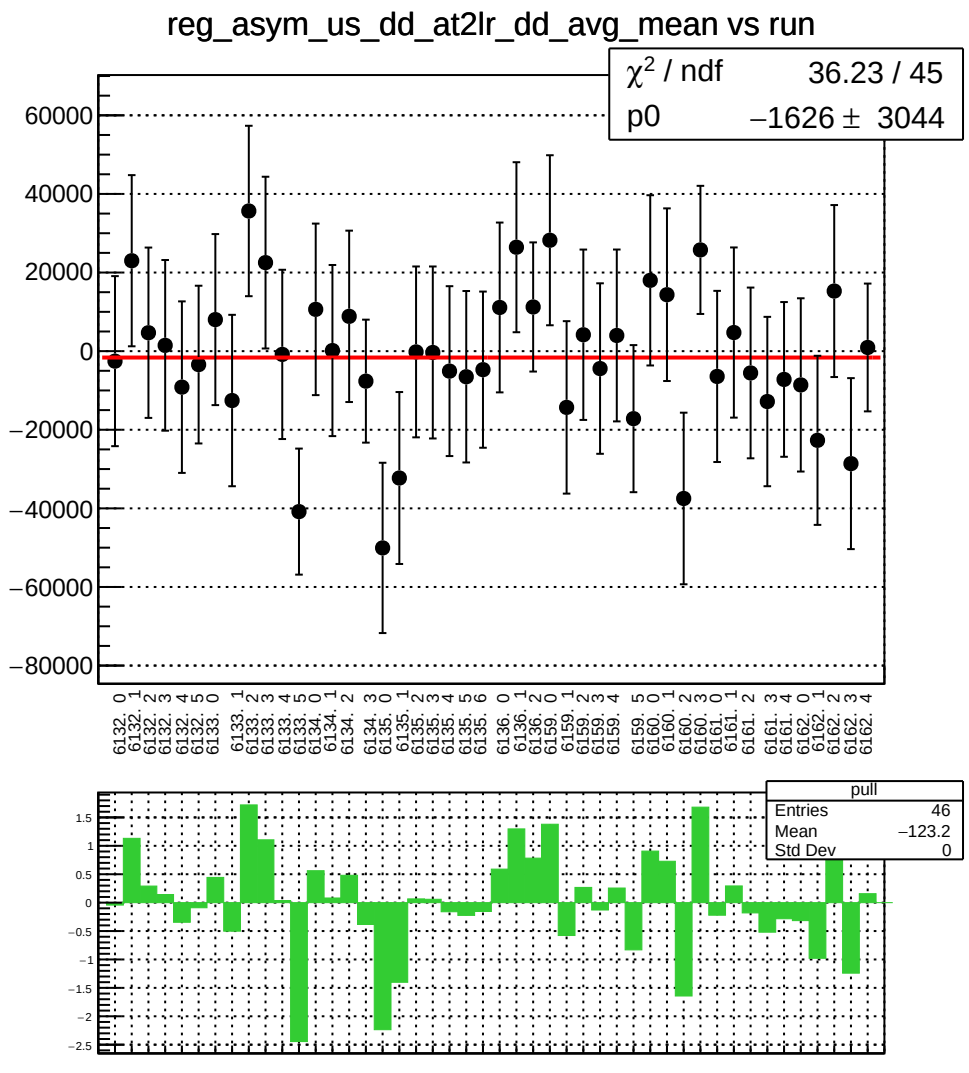

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.894e+05 / 45
p0 29.53 ± 0.03459
80
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

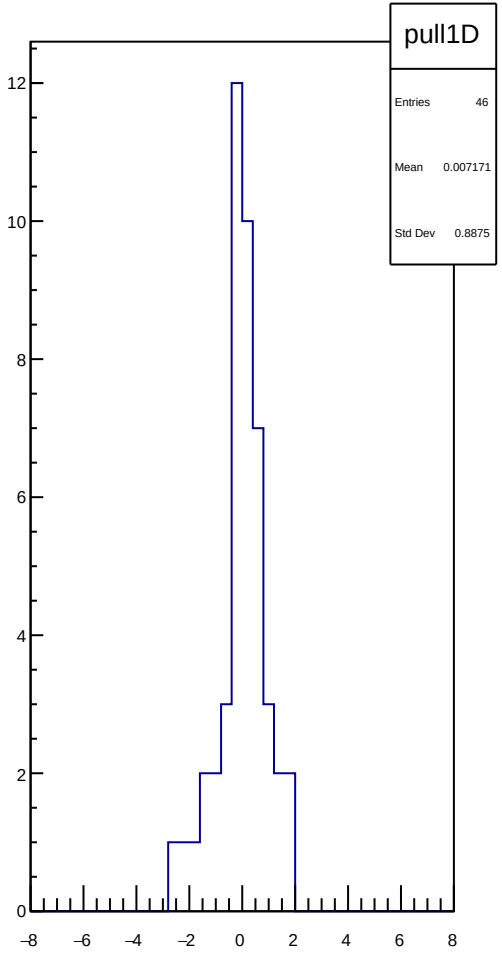

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.64 / 45
p0 0.06662 ± 0.04892
pull
Entries 46
Mean −7.419
Std Dev 0
pull1D
Entries 46
Mean −0.05839
Std Dev 0.9944

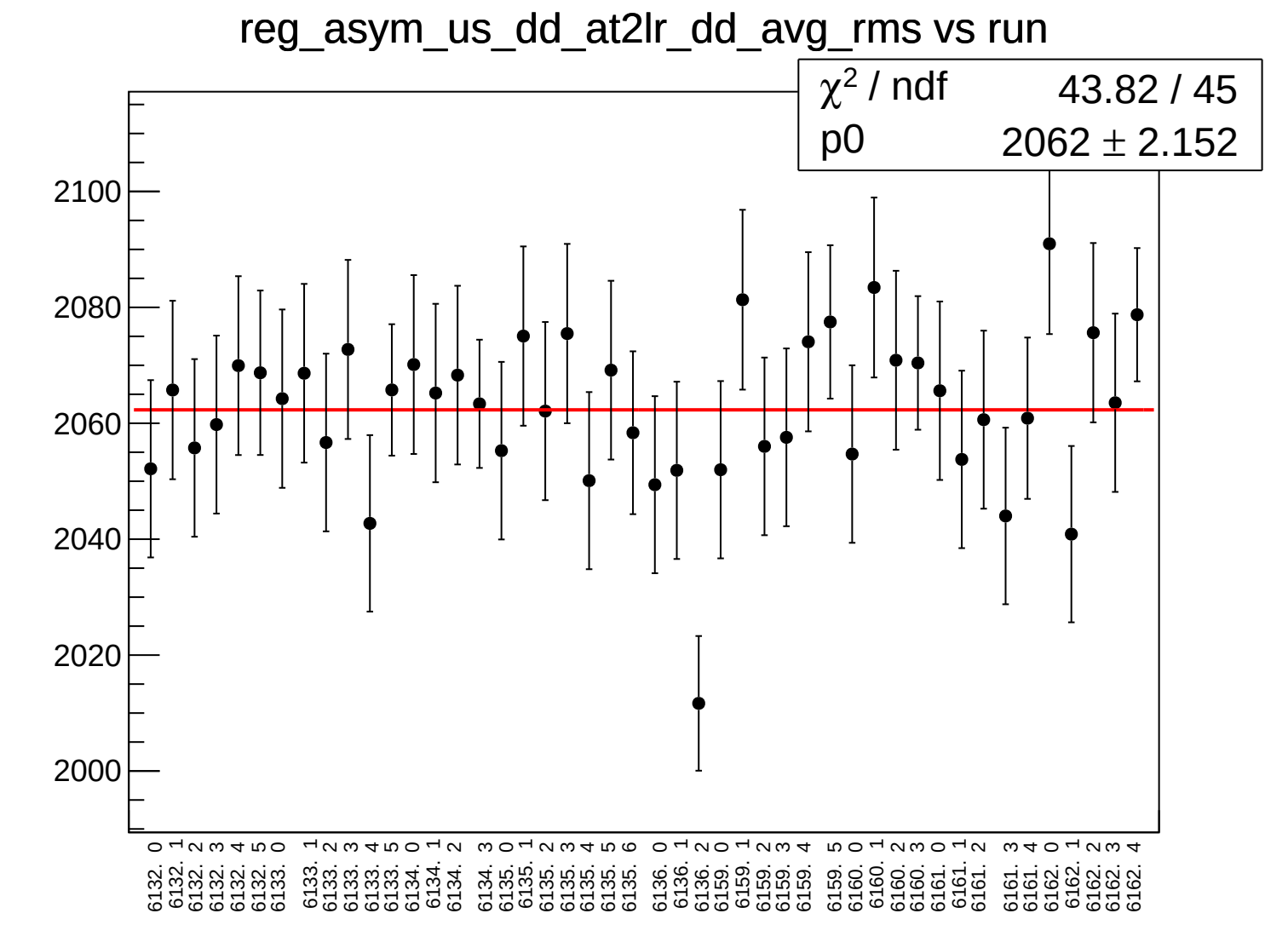

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.894e+05 / 45
p0 29.53 ± 0.03459
80
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

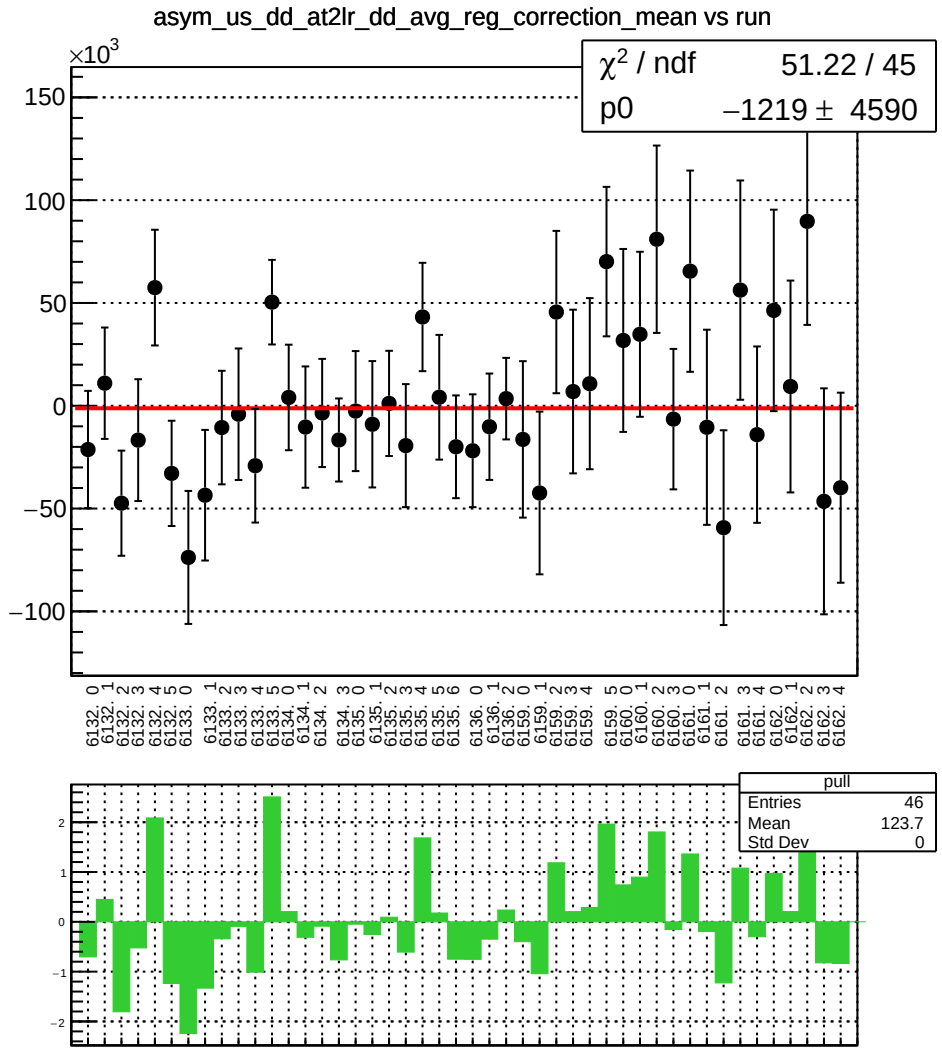

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 56.16 / 45
p0 9.891e−14 ± 8.464e−14
6
4
2
0
−2
−4
−6
−8
−10
−12
−14
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6136. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 7.582
Std Dev 12.25
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.1072
Std Dev 1.1
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

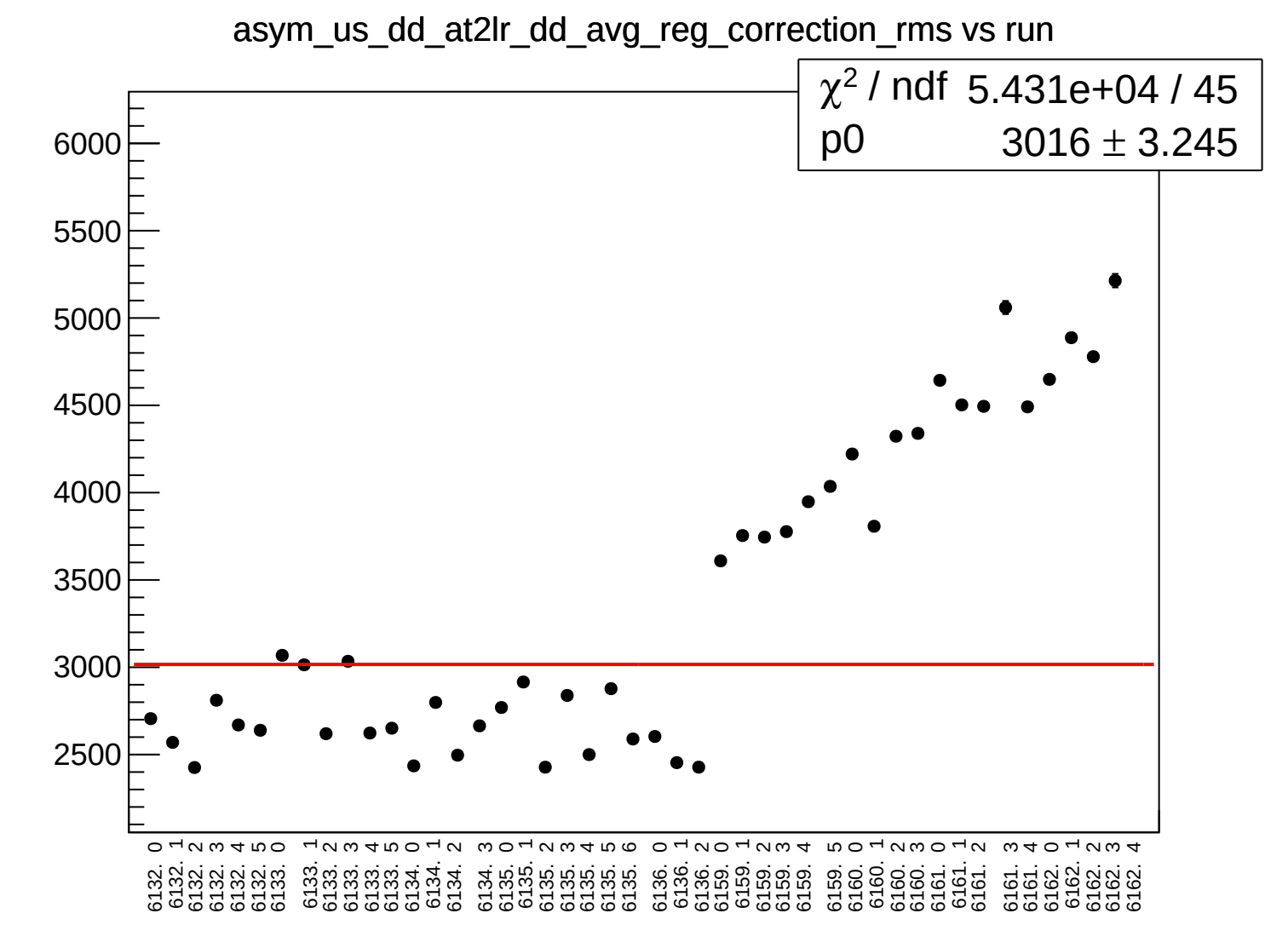

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.078e+05 / 45
p0 4.276e−11 ± 5.985e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

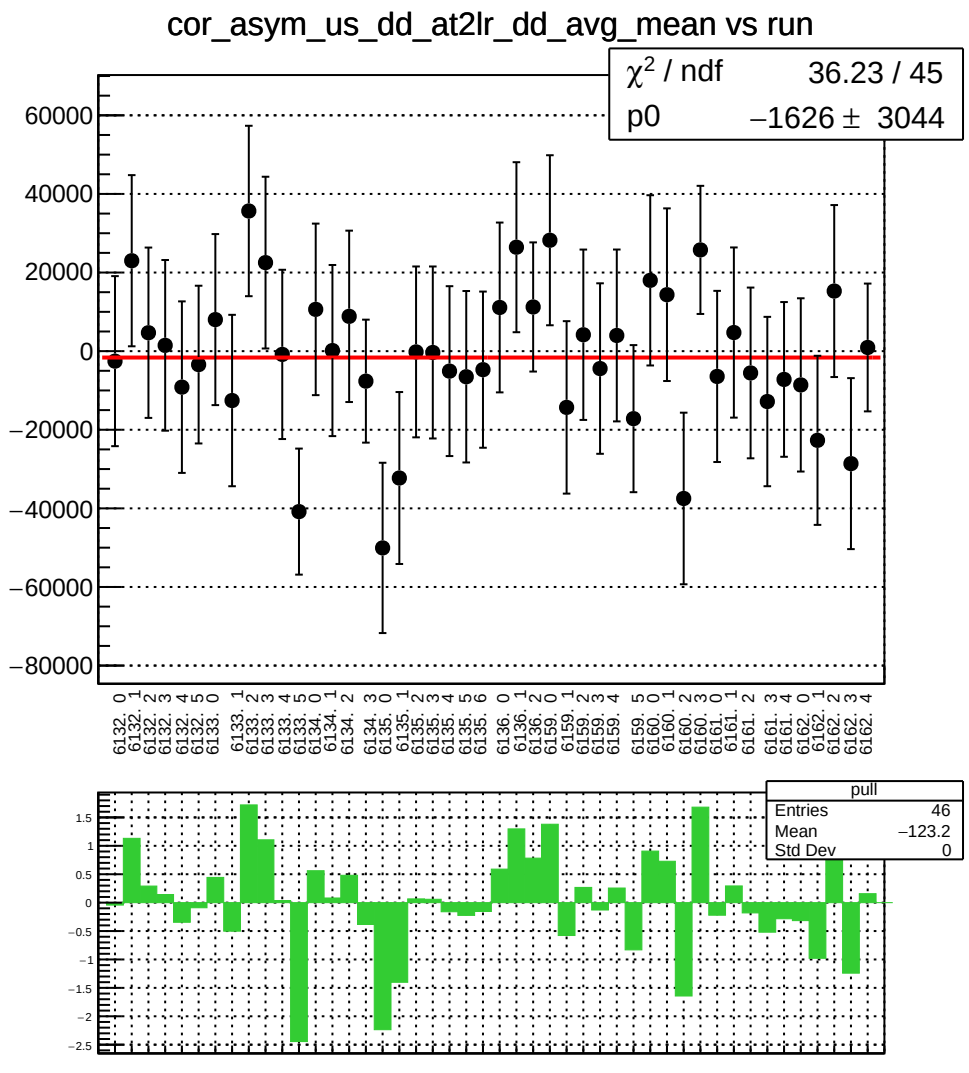

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 36.23 / 45
p0 −1626 ± 3044
pull
Entries 46
Mean −123.2
Std Dev 0

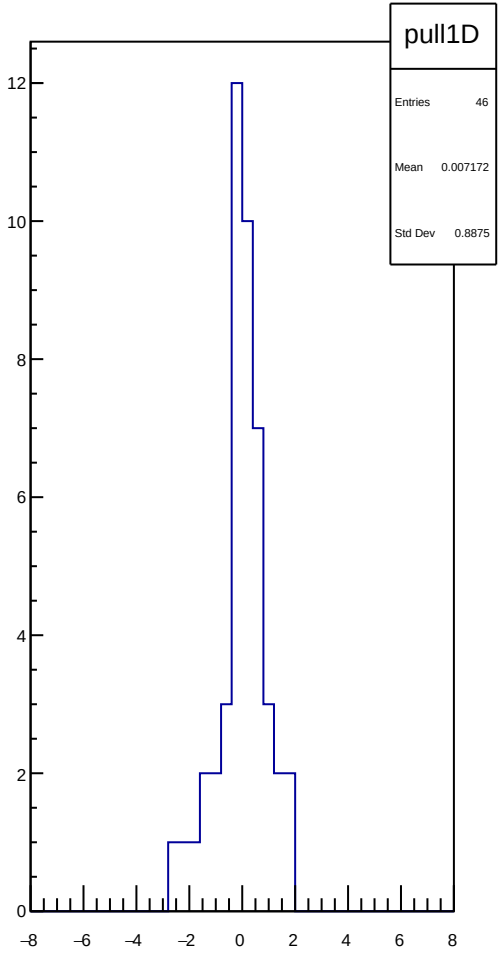

pull1D
Entries 46
Mean 0.007171
Std Dev 0.8875

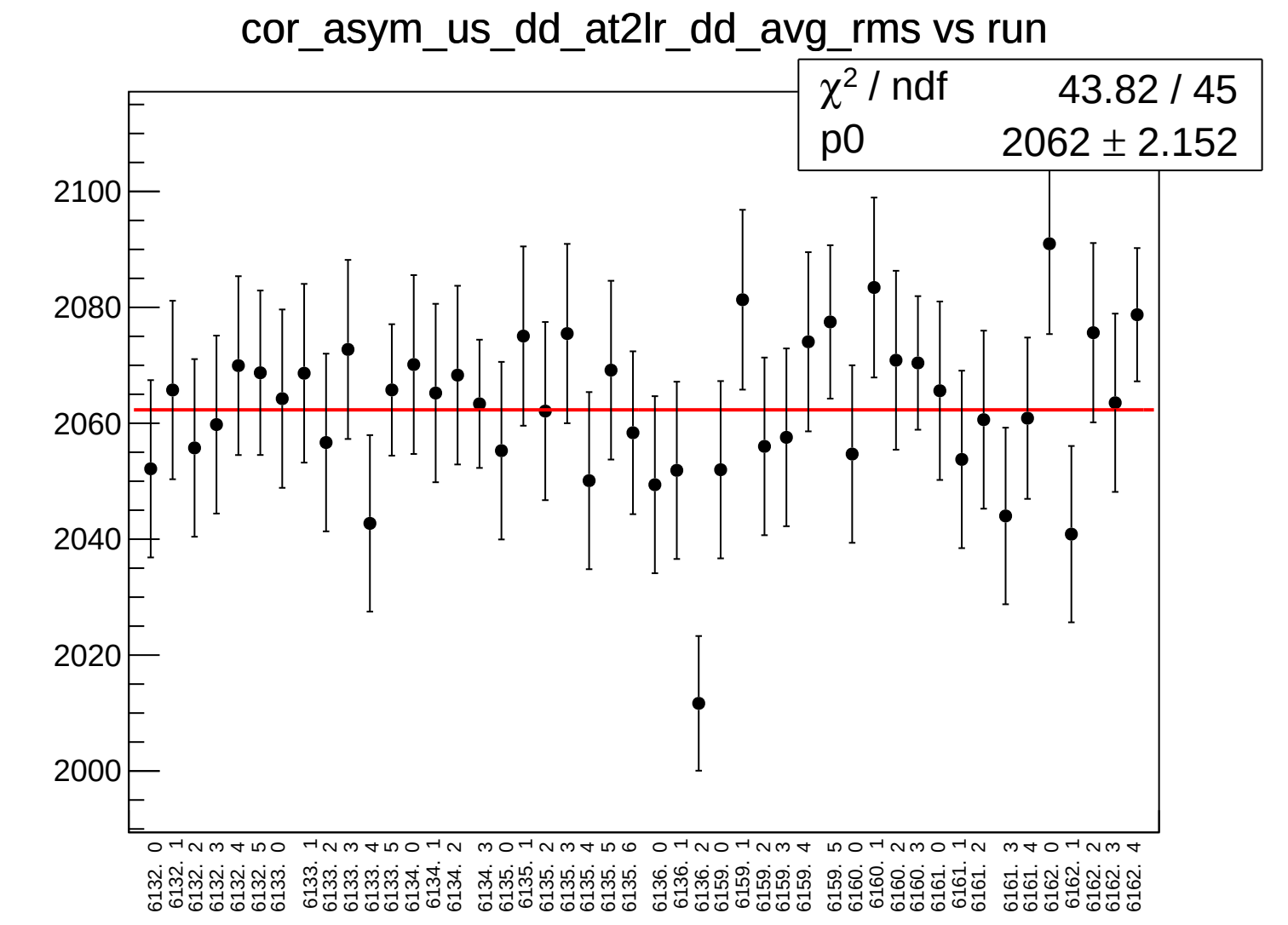

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 43.82 / 45
p0 2062 ± 2.152
2100
2080
2060
2040
2020
2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 51.22 / 45
p0 −1219 ± 4590
150
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 123.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.03836
Std Dev 1.055
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 5.431e+04 / 45
p0 3016 ± 3.245
6000
5500
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 36.23 / 45
p0 −1626 ± 3044
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −123.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean 0.007172
Std Dev 0.8875
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 43.82 / 45
p0 2062 ± 2.152
2100
2080
2060
2040
2020
2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 3
6161. 4
6162. 0
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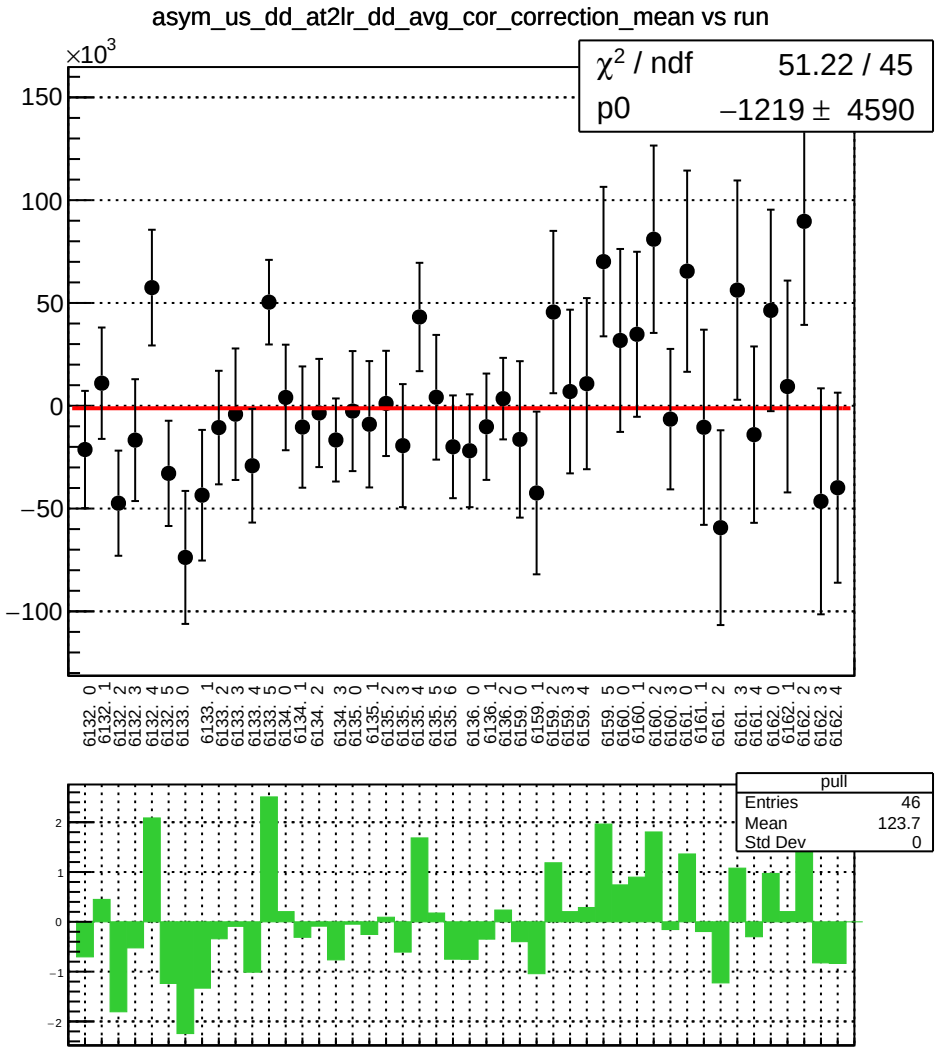
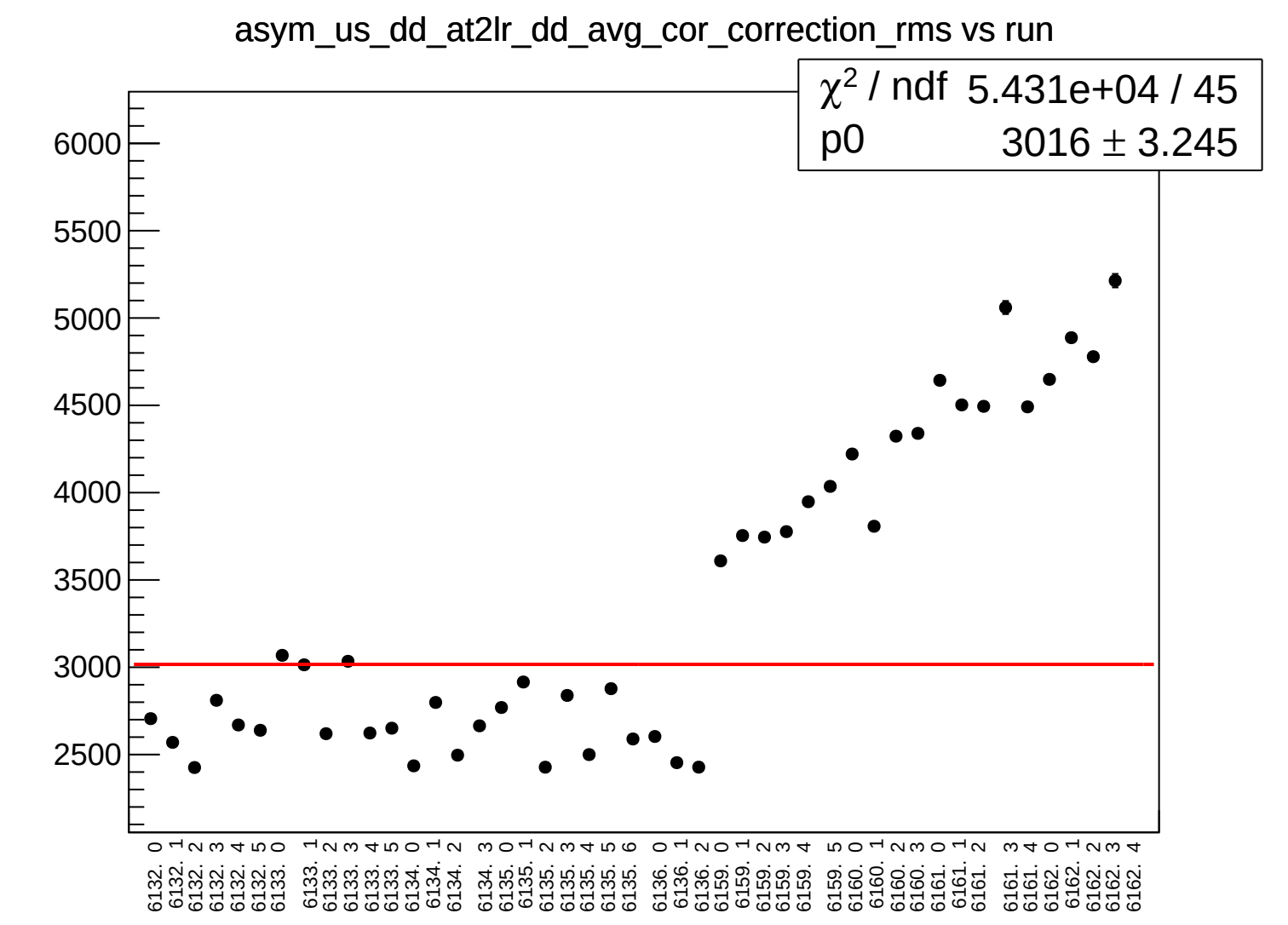
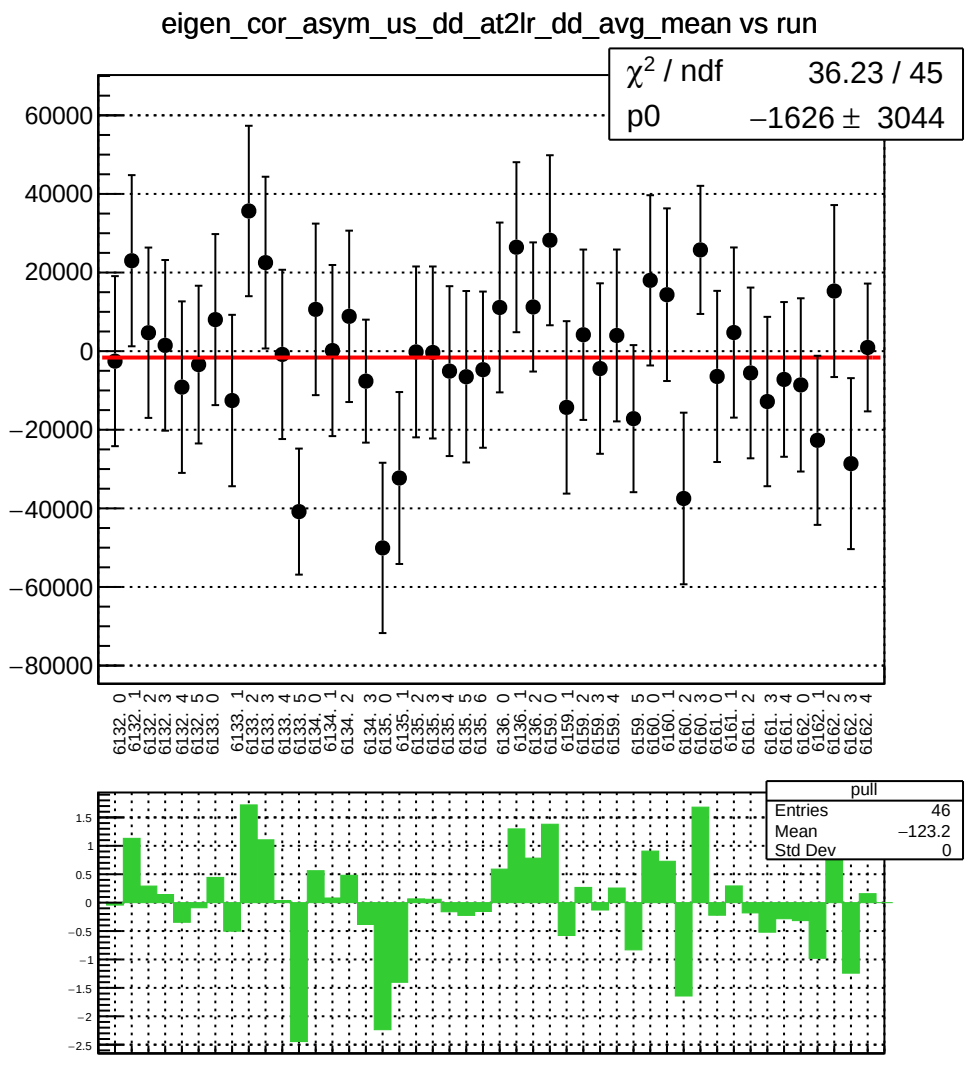
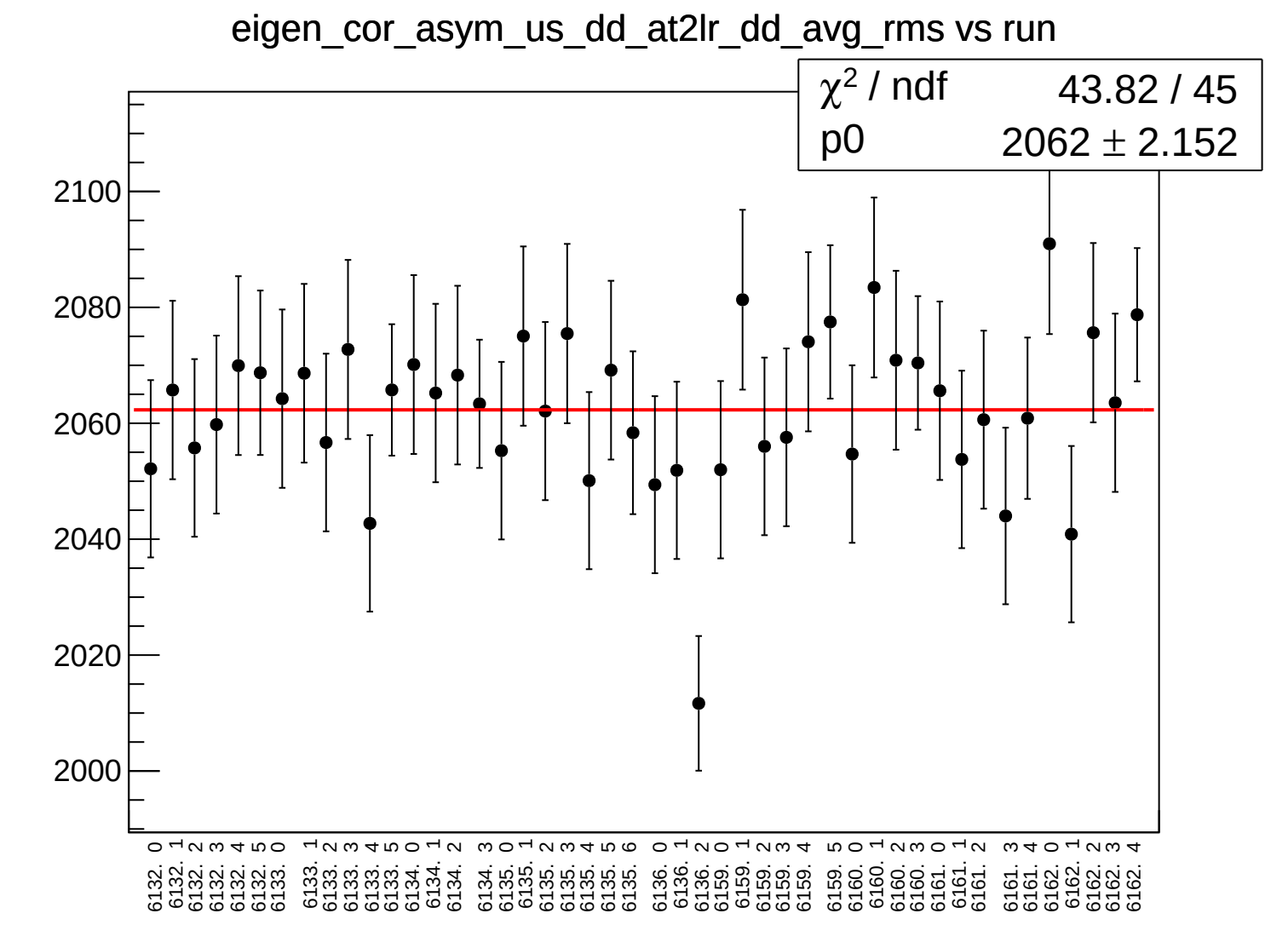
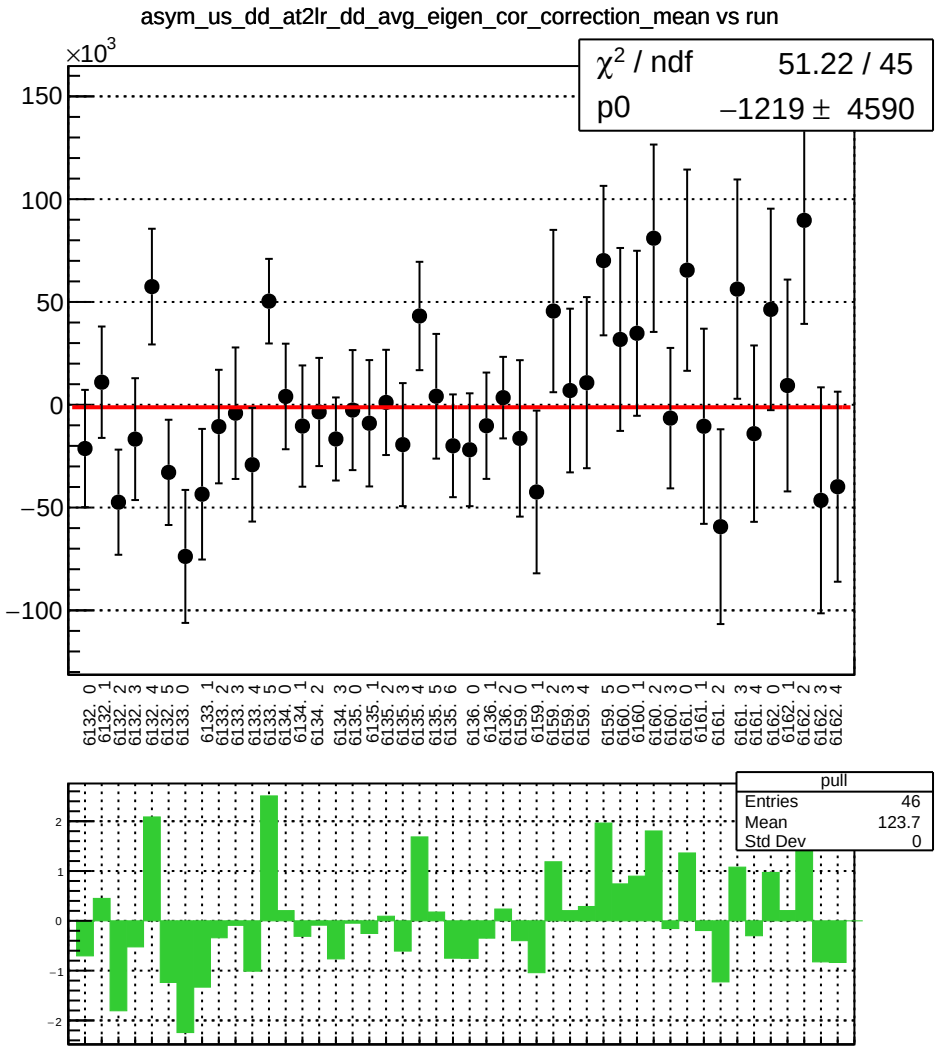
6162. 4

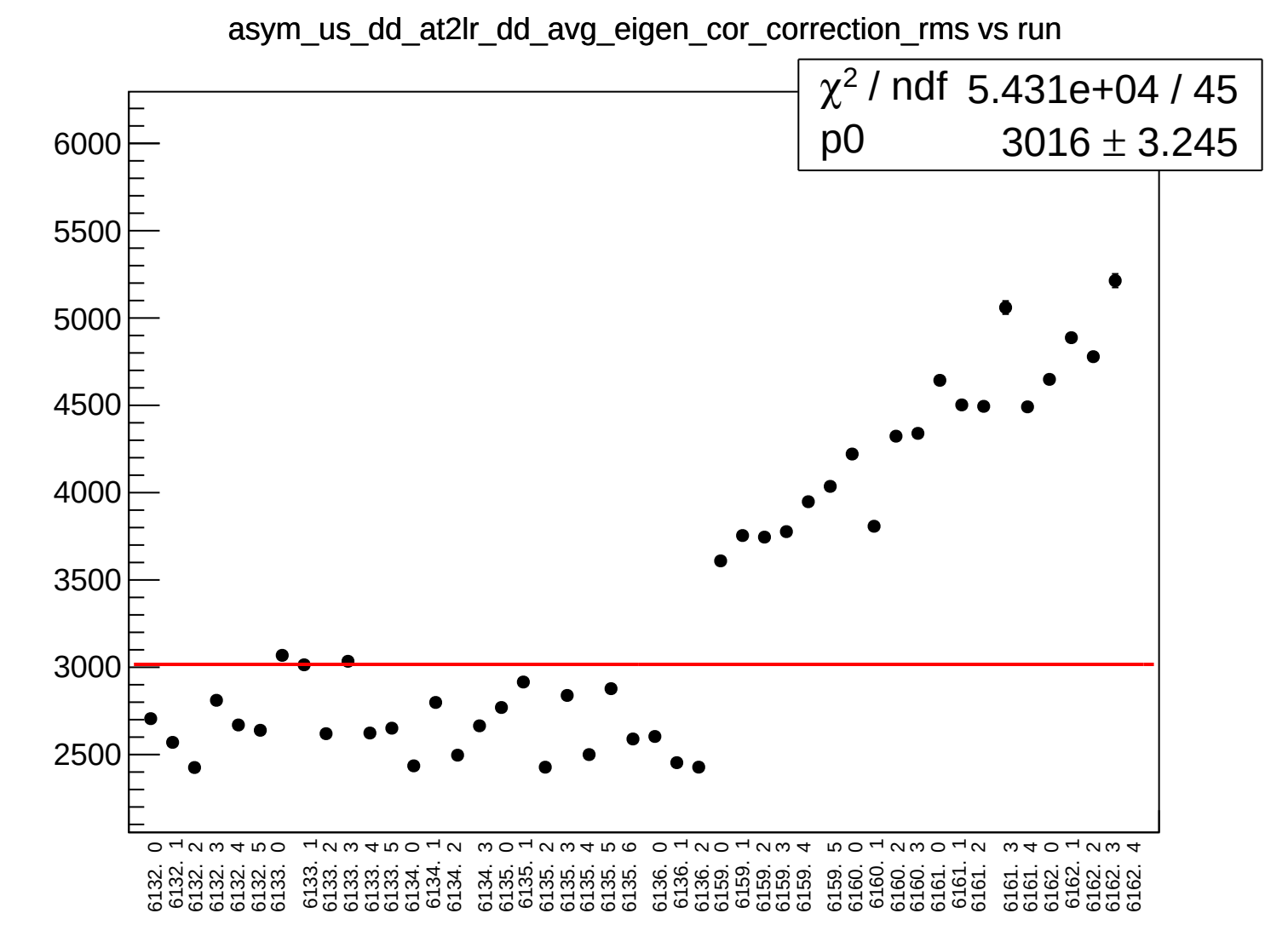

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 51.22 / 45
p0 −1219 ± 4590
150
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 123.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.03836
Std Dev 1.055
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

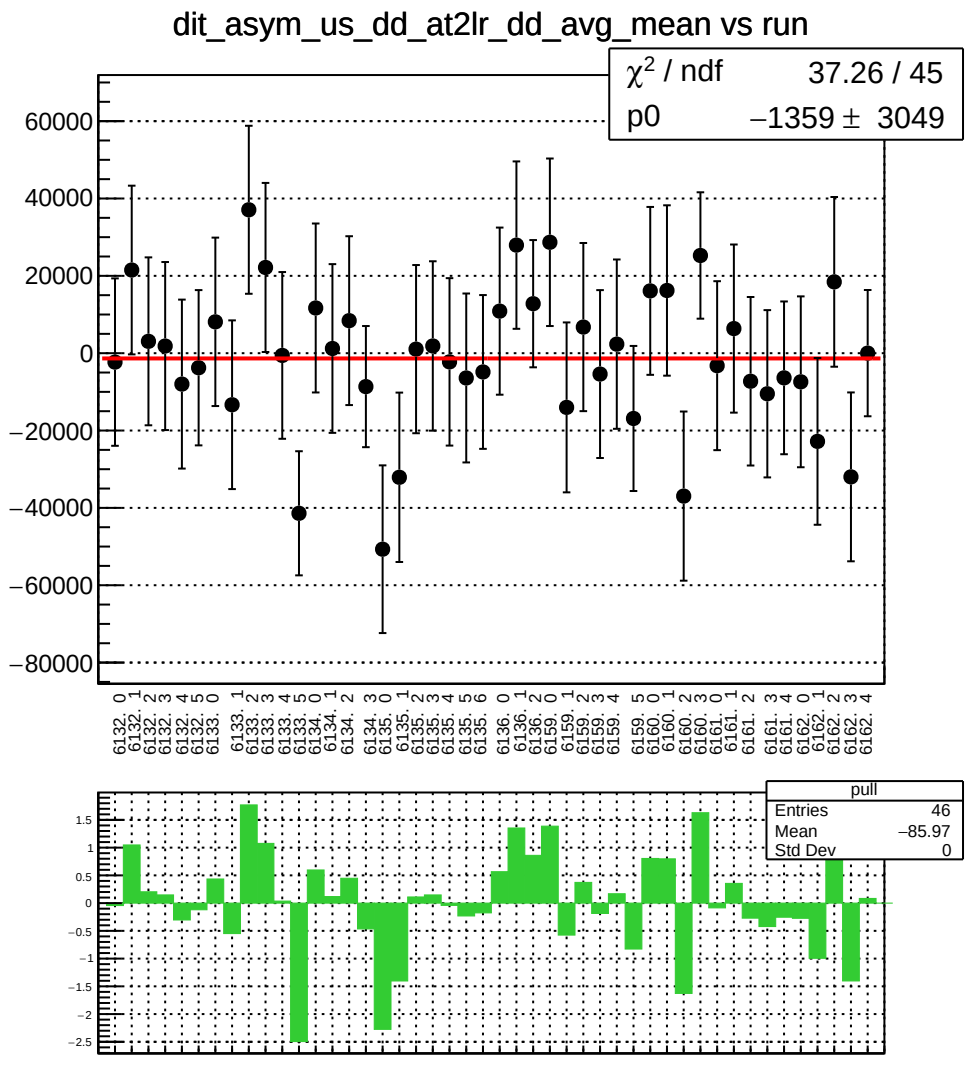

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 5.431e+04 / 45
p0 3016 ± 3.245
6000
5500
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

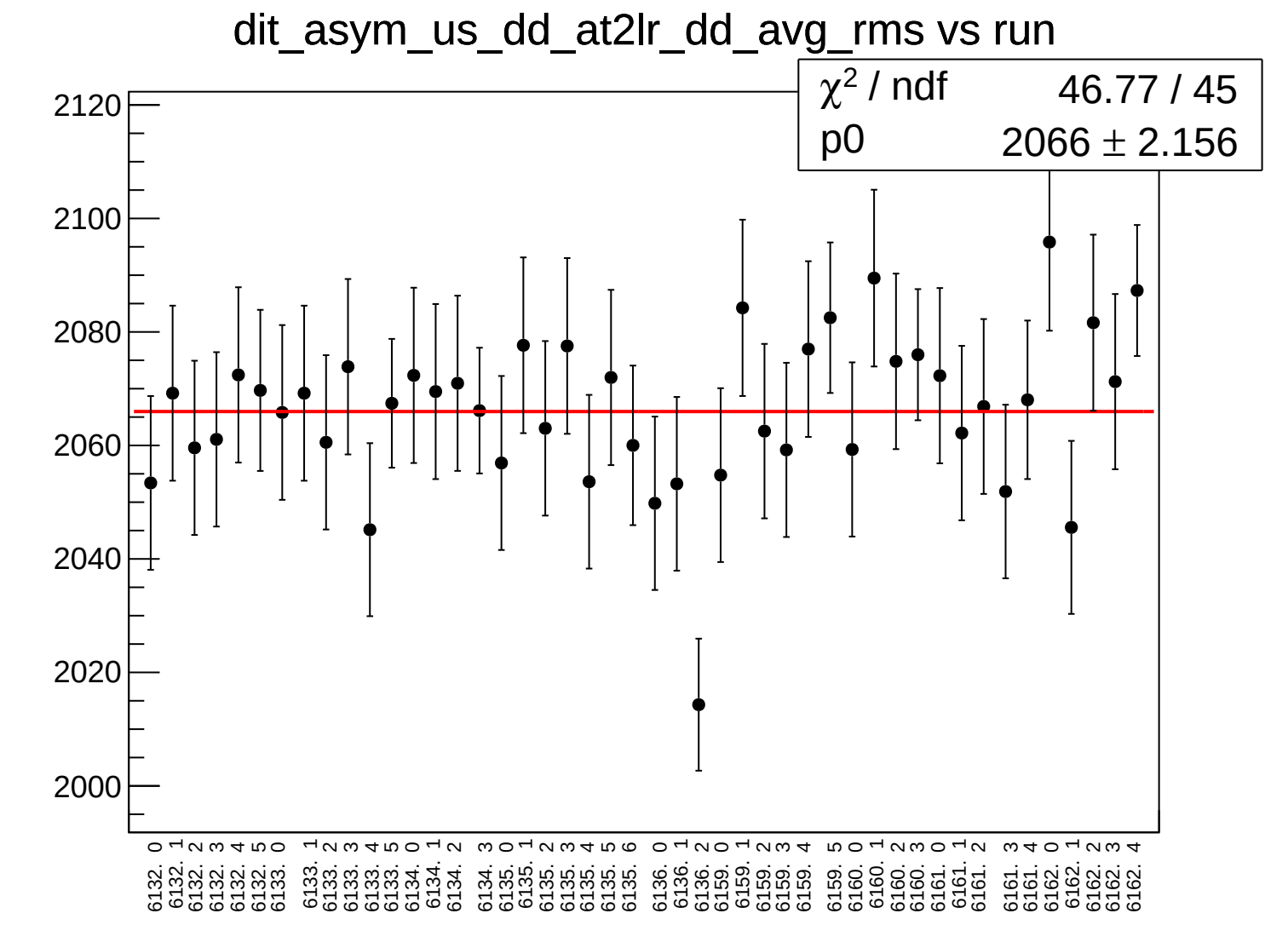

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 36.23 / 45
p0 −1626 ± 3044
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −123.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean 0.007172
Std Dev 0.8875
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

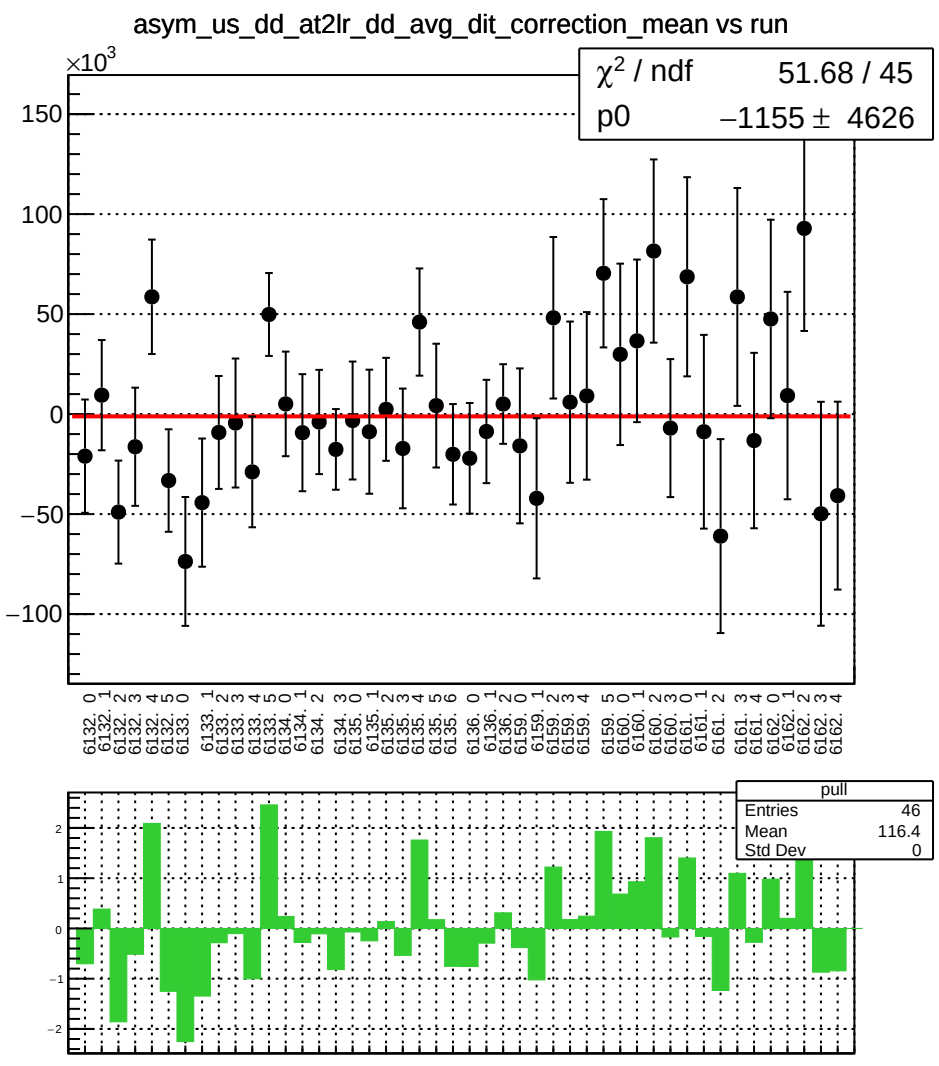

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 43.82 / 45
p0 2062 ± 2.152
2100
2080
2060
2040
2020
2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

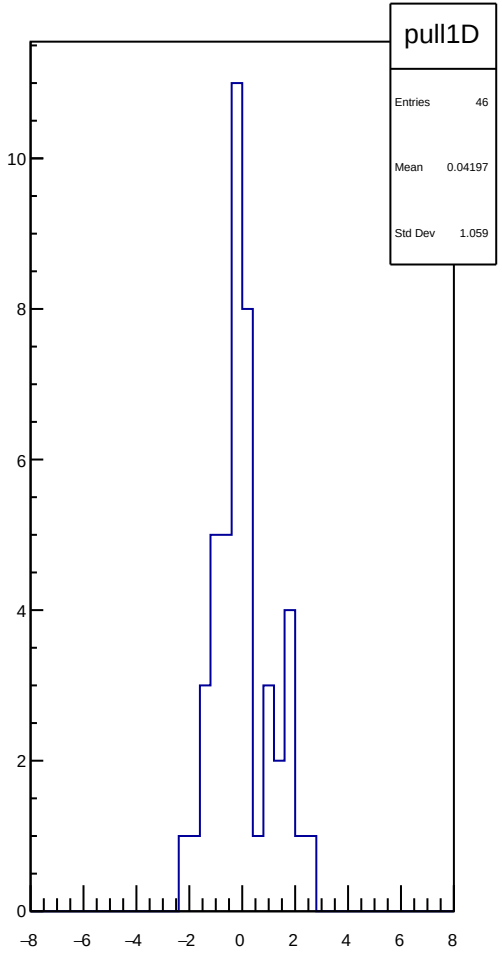

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 51.22 / 45
p0 −1219 ± 4590
150
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 123.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.03836
Std Dev 1.055
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

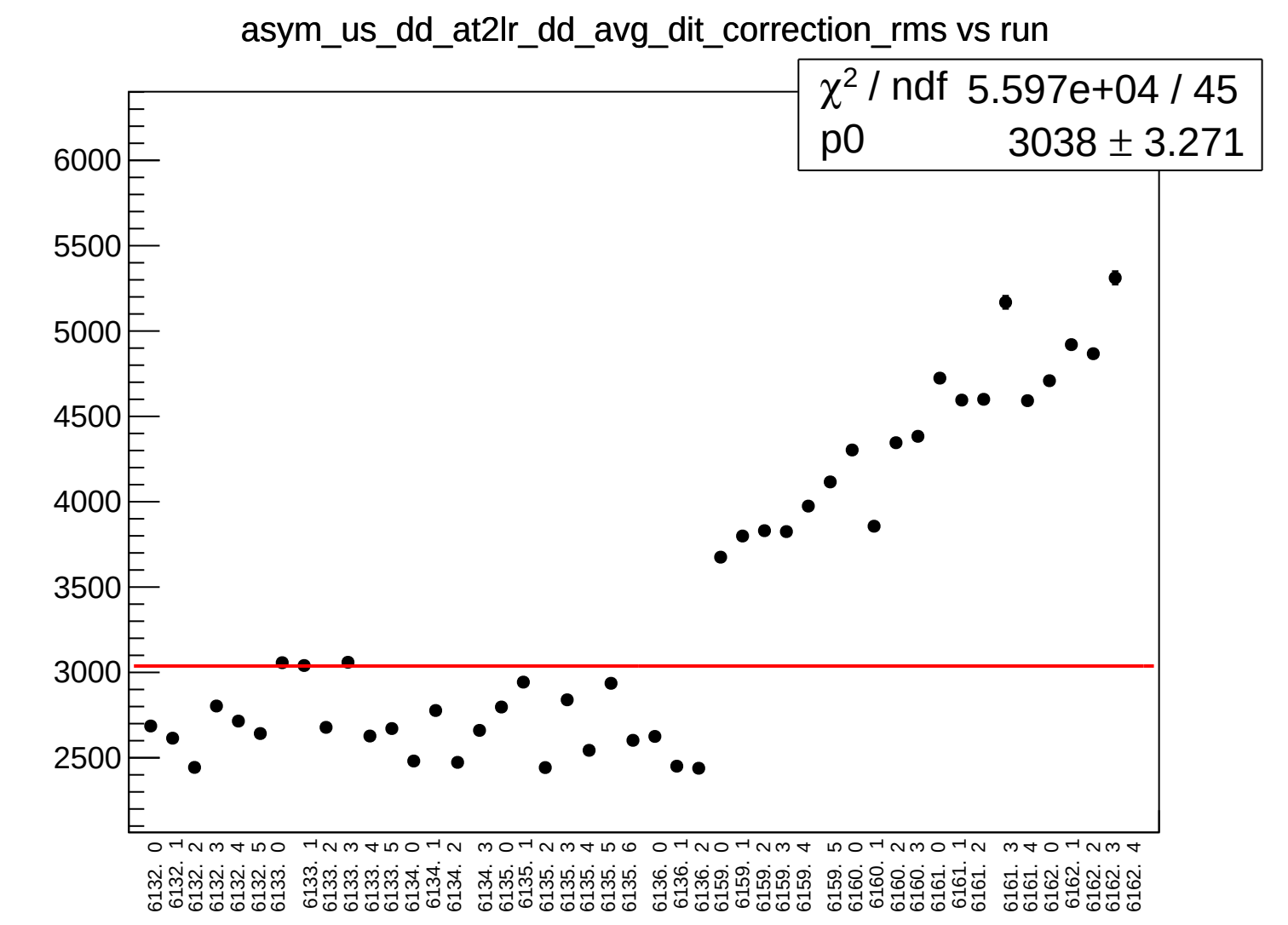

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.431e+04 / 45
p0 3016 ± 3.245
6000
5500
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

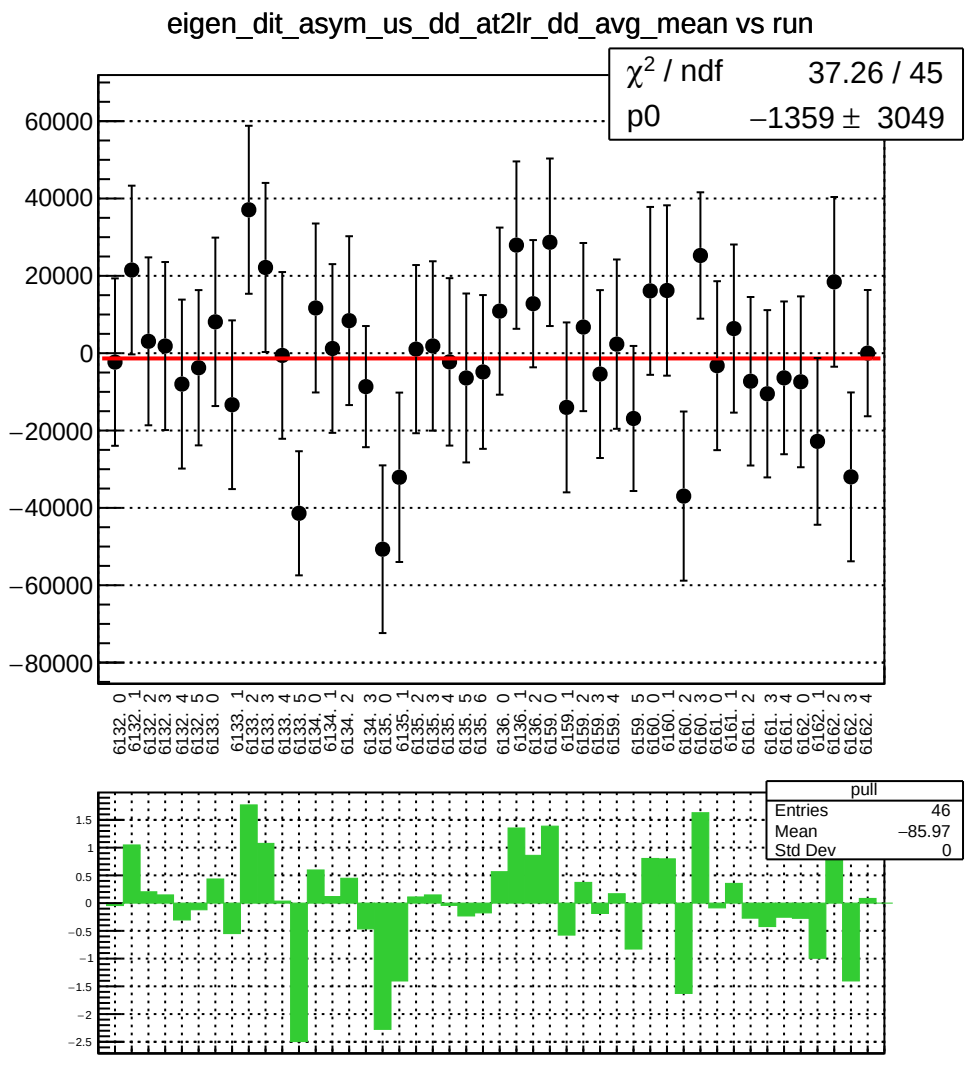

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 37.26 / 45
p0 −1359 ± 3049
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −85.97
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean 0.00869
Std Dev 0.8999
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

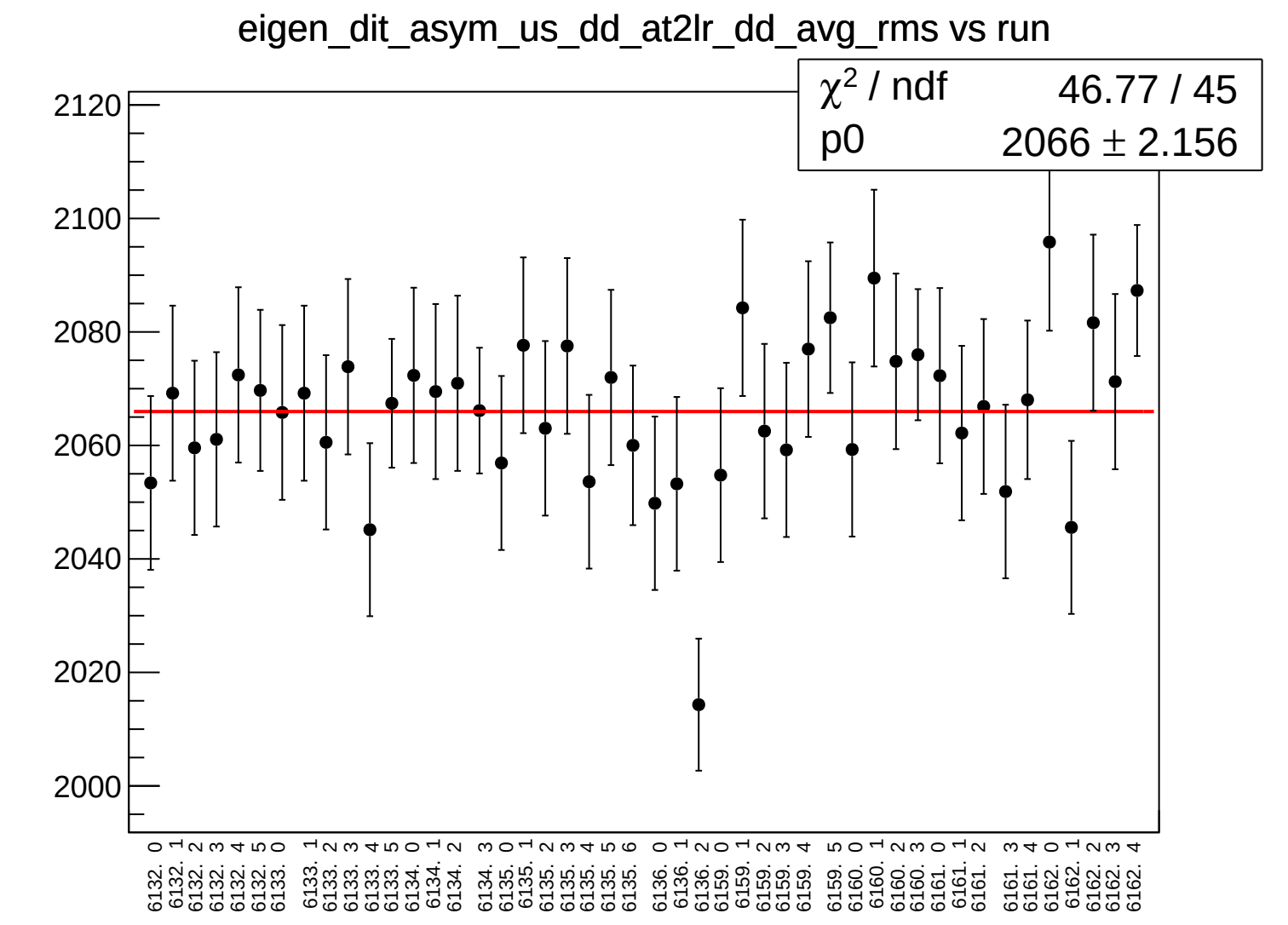

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 46.77 / 45
p0 2066 ± 2.156
2120
2100
2080
2060
2040
2020
2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

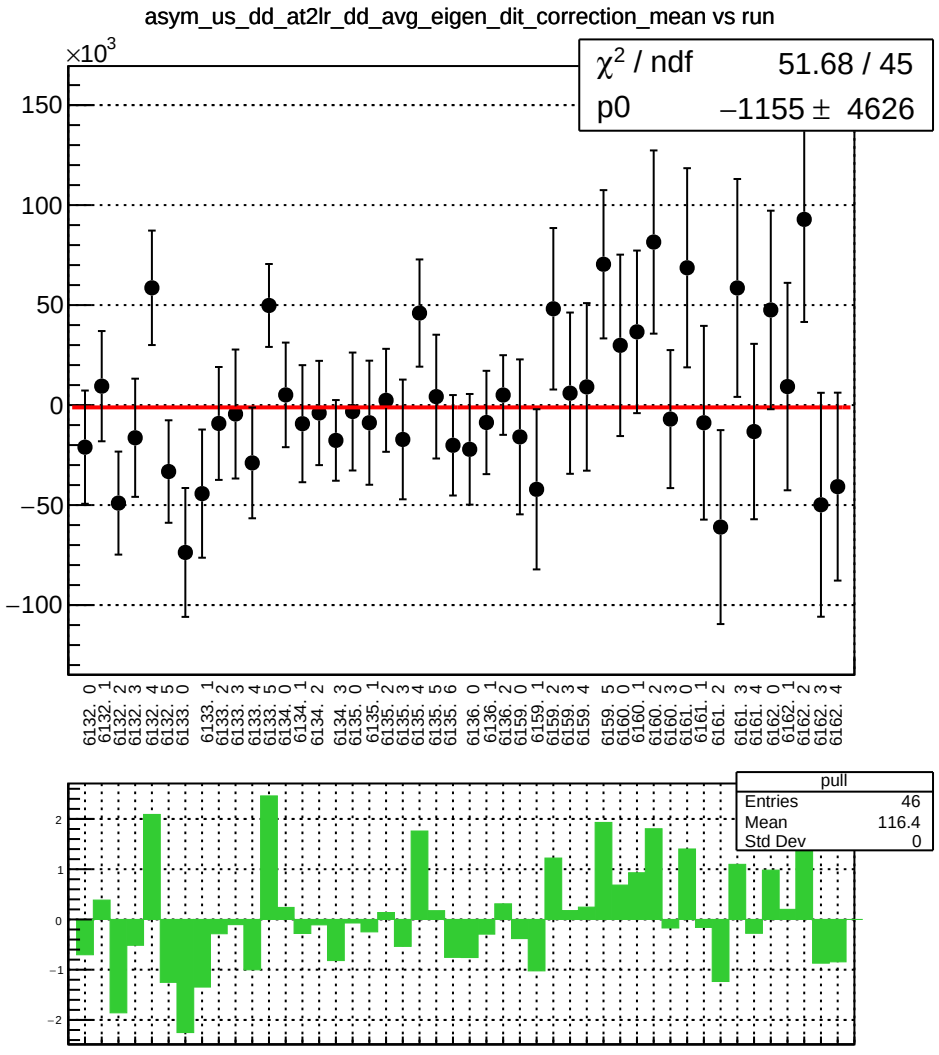

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 51.68 / 45
p0 −1155 ± 4626
150
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 116.4
Std Dev 0
2
1
0
−1
−2

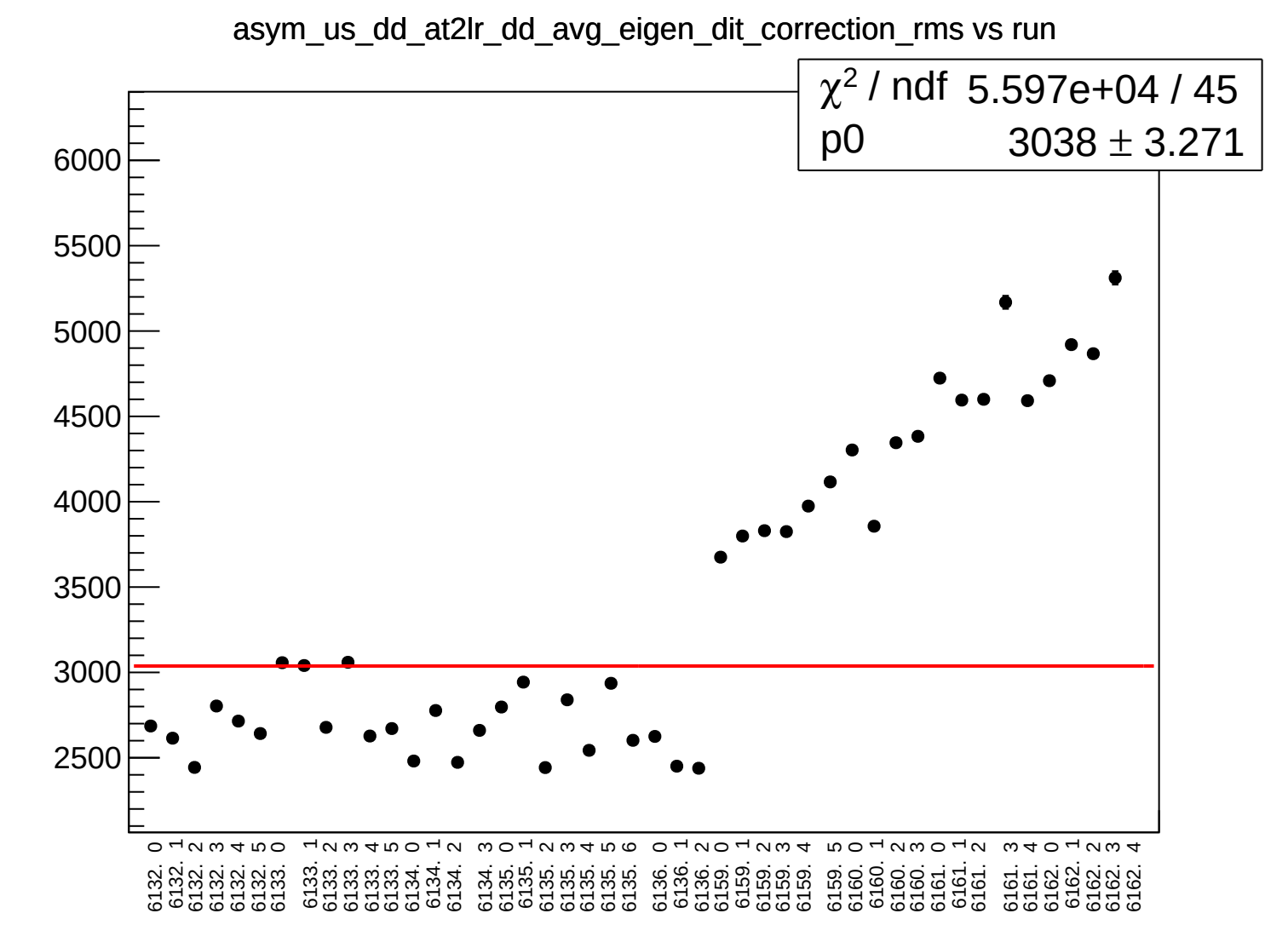

pull1D
Entries 46
Mean 0.04197
Std Dev 1.059
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

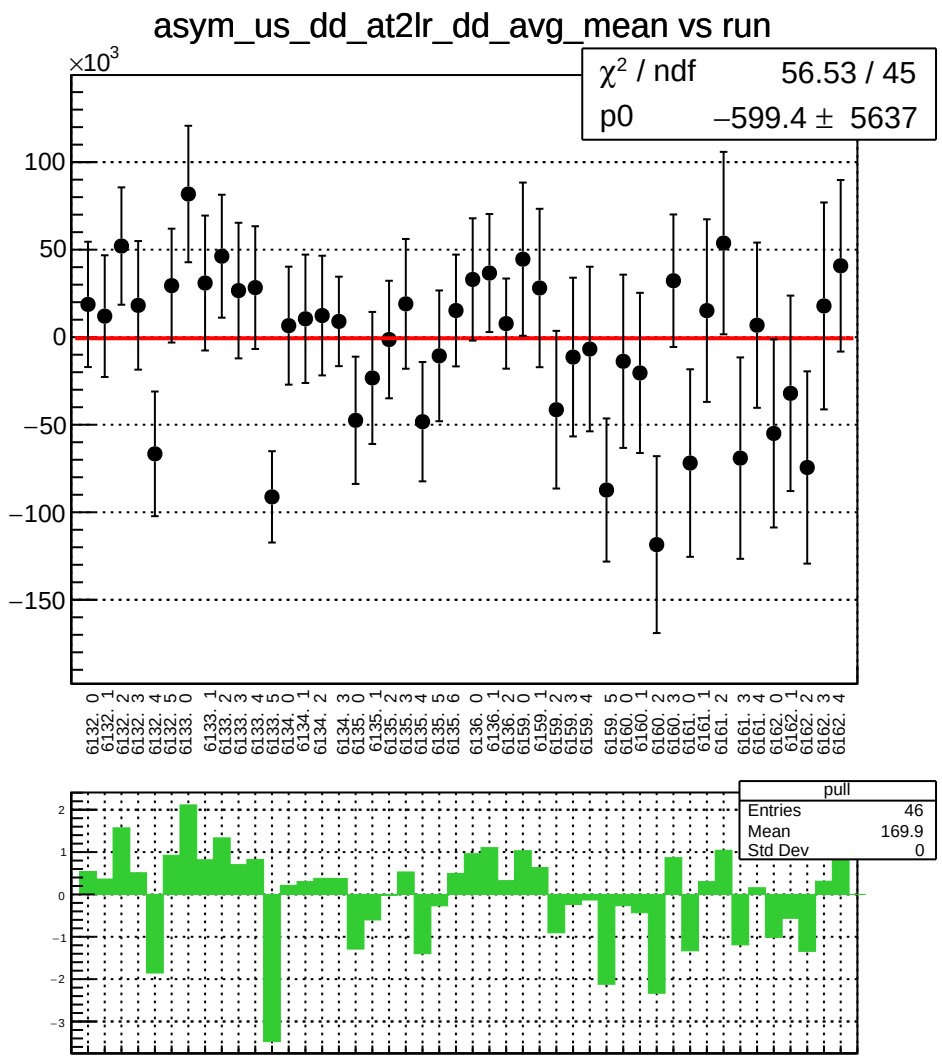

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 5.597e+04 / 45
p0 3038 ± 3.271
6000
5500
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

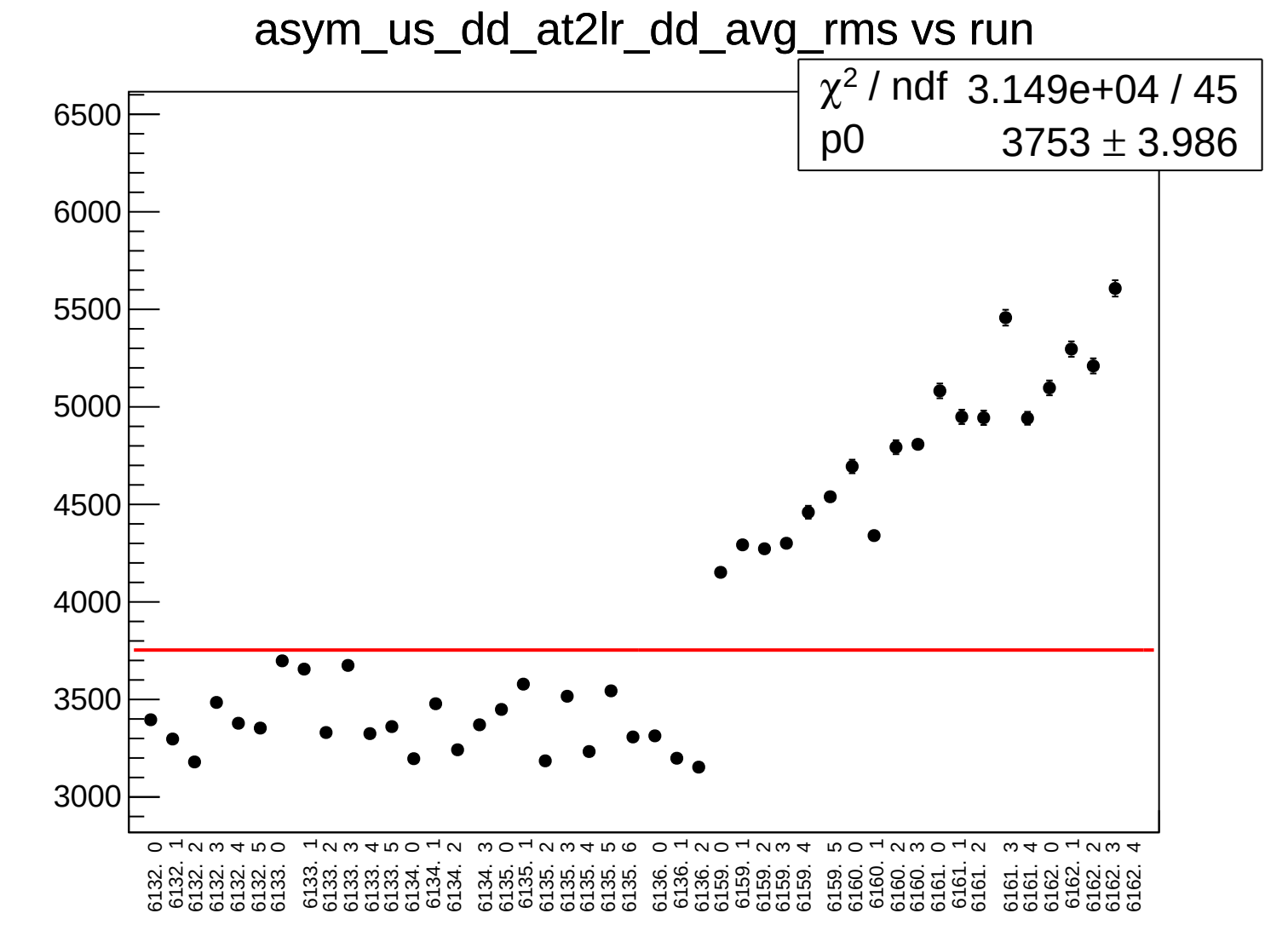

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 37.26 / 45
p0 −1359 ± 3049
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −85.97
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean 0.00869
Std Dev 0.8999
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

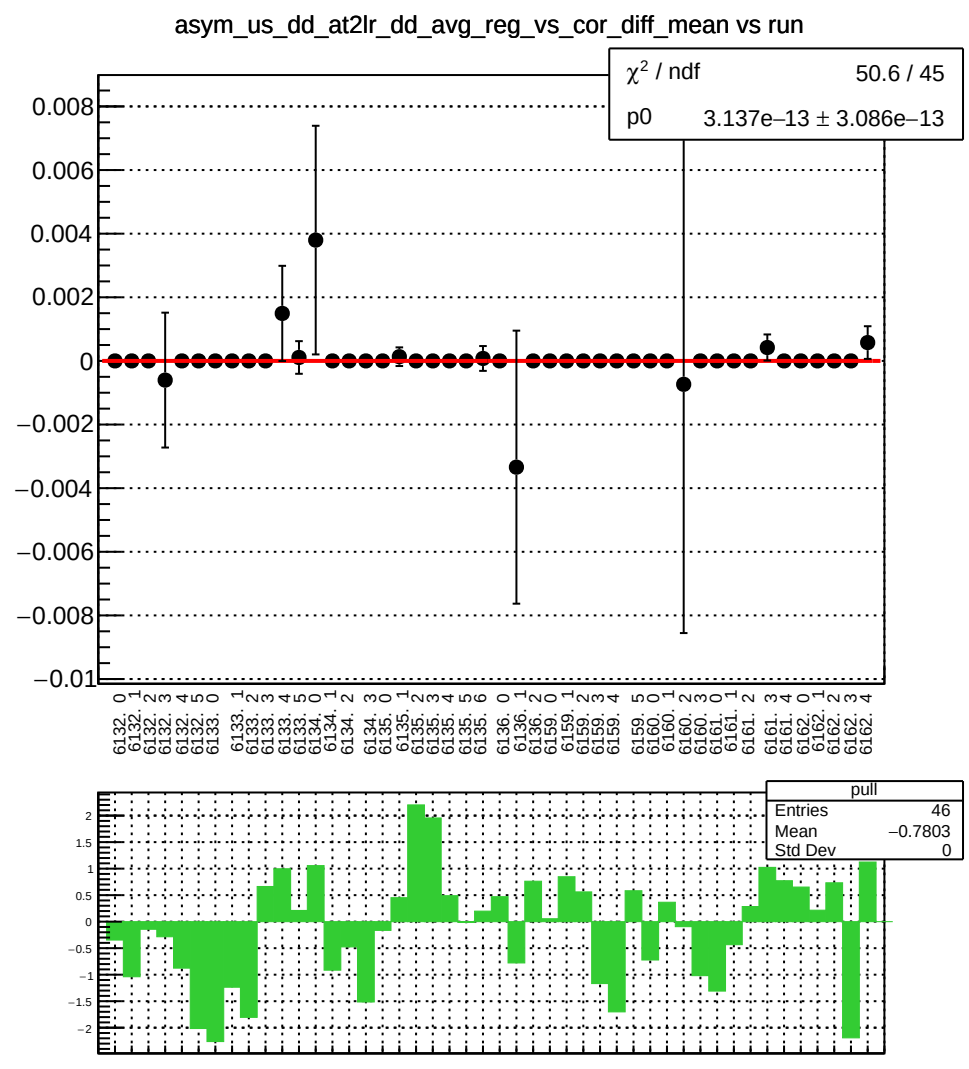

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 46.77 / 45
p0 2066 ± 2.156
2120
2100
2080
2060
2040
2020
2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

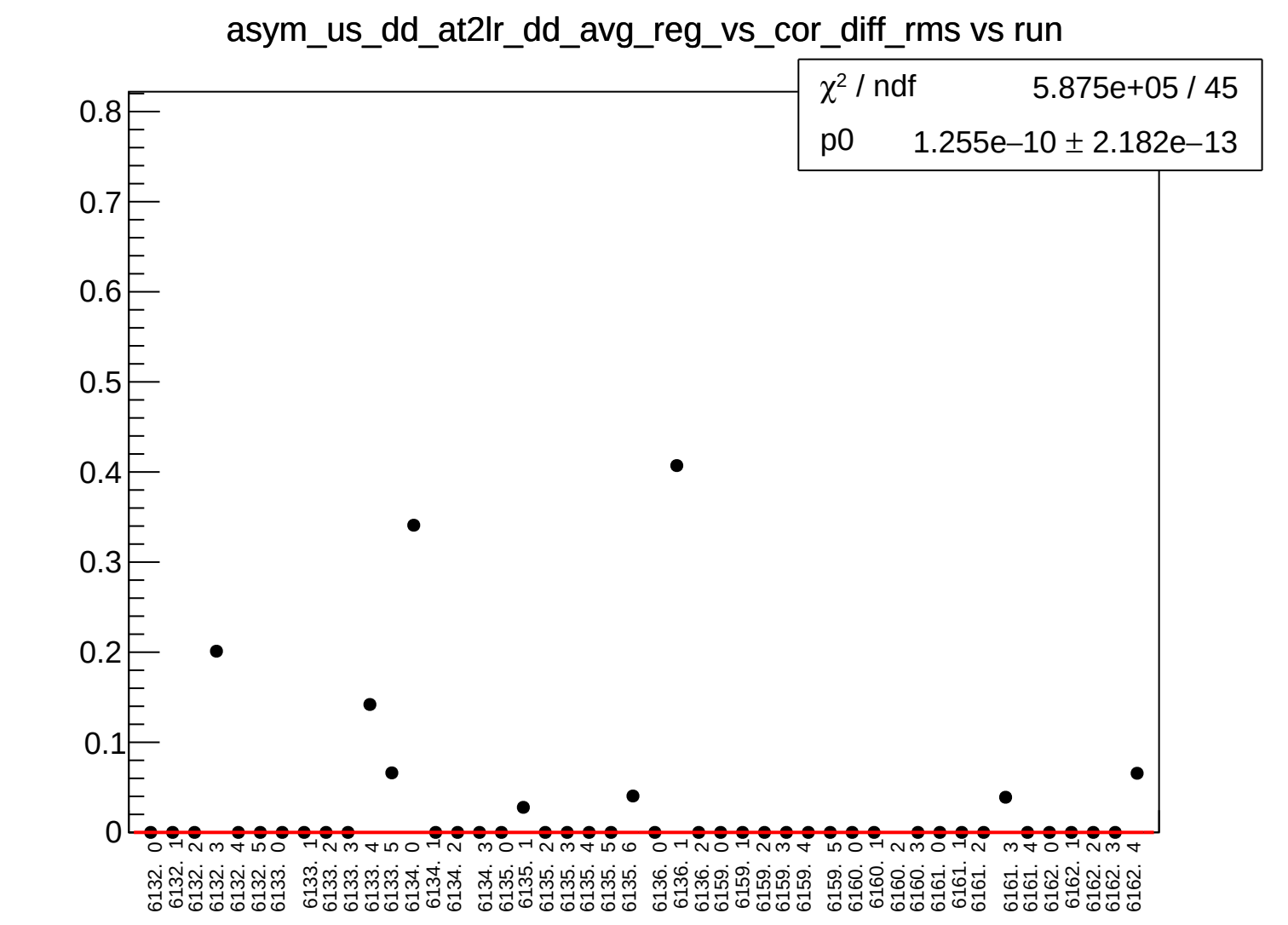

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 51.68 / 45
p0 −1155 ± 4626
150
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 116.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.04197
Std Dev 1.059
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

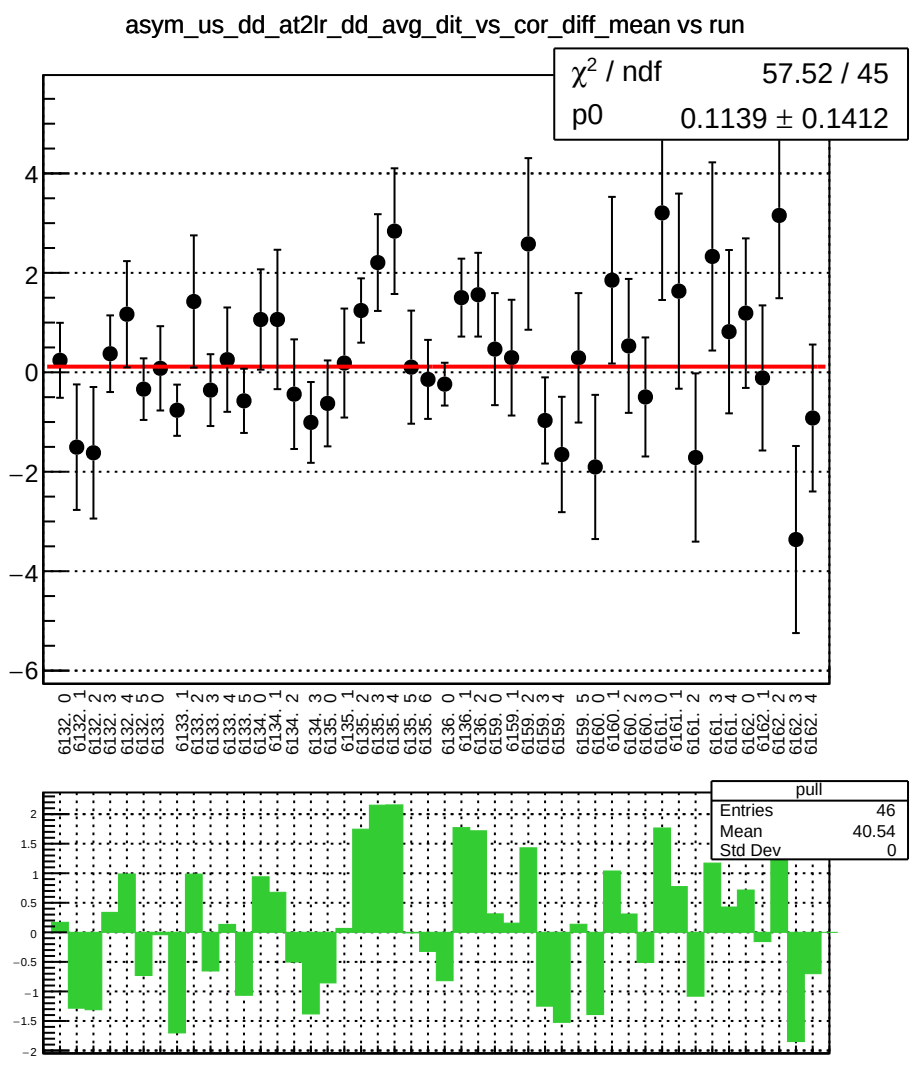

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.597e+04 / 45
p0 3038 ± 3.271
6000
5500
5000
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

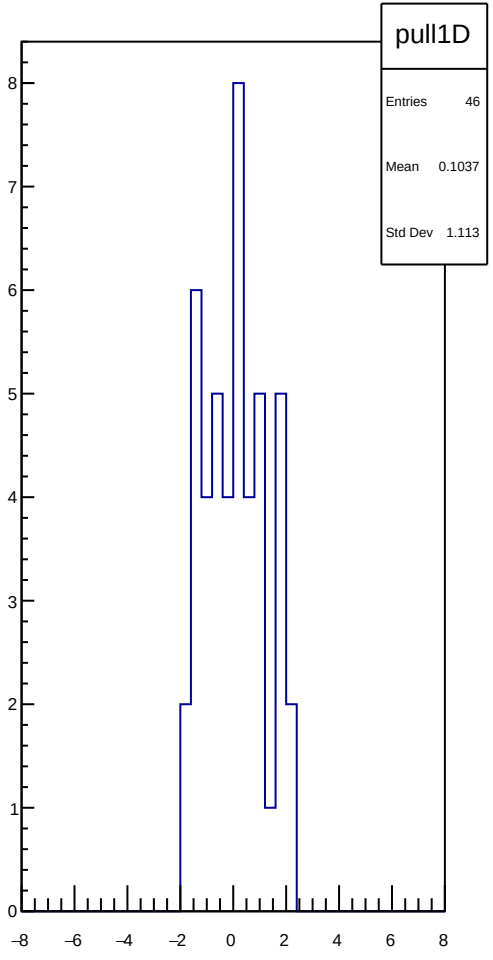

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 56.53 / 45
p0 −599.4 ± 5637
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 169.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.02566
Std Dev 1.108
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

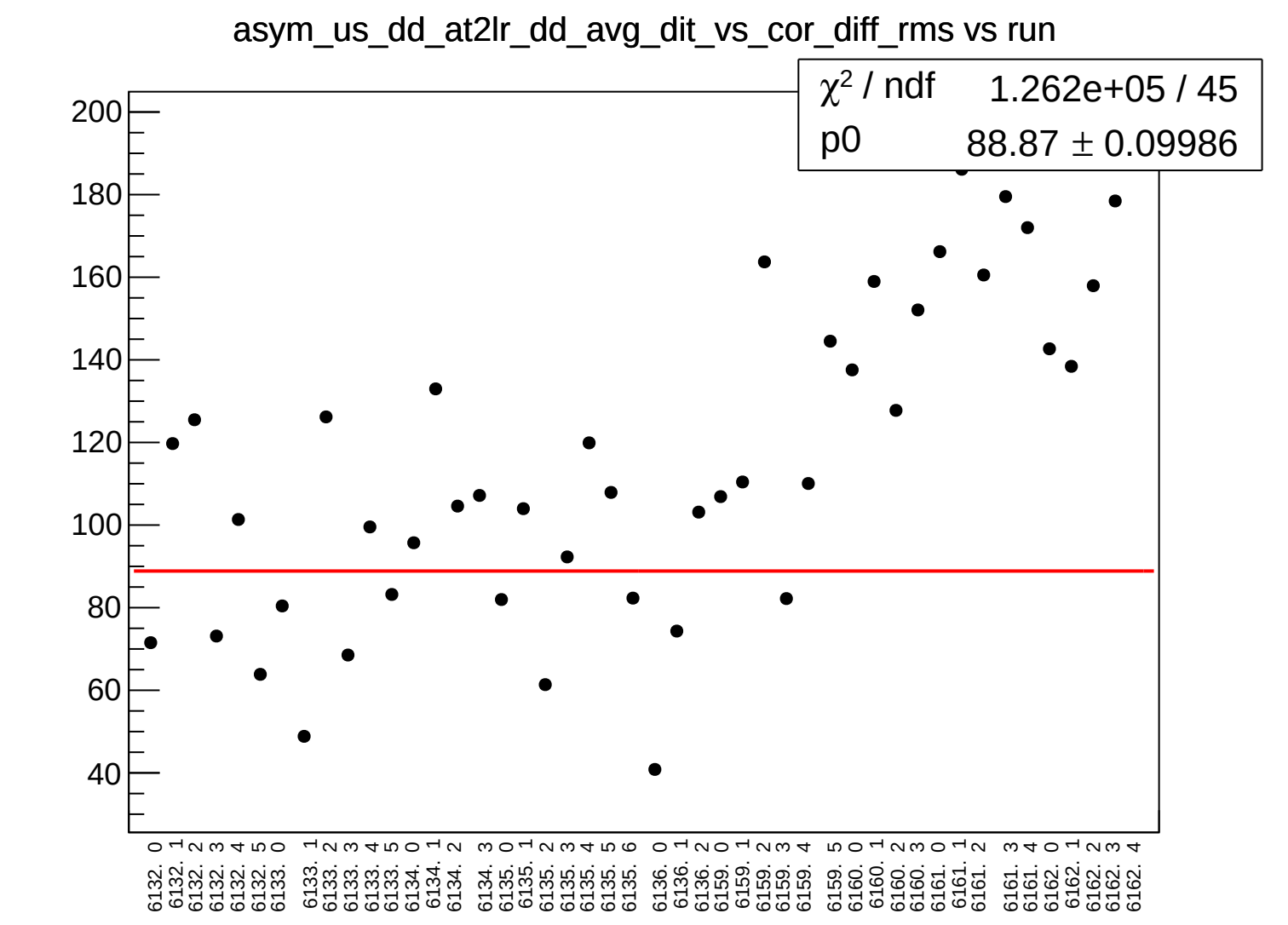

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 3.149e+04 / 45
p0 3753 ± 3.986
6500
6000
5500
5000
4500
4000
3500
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

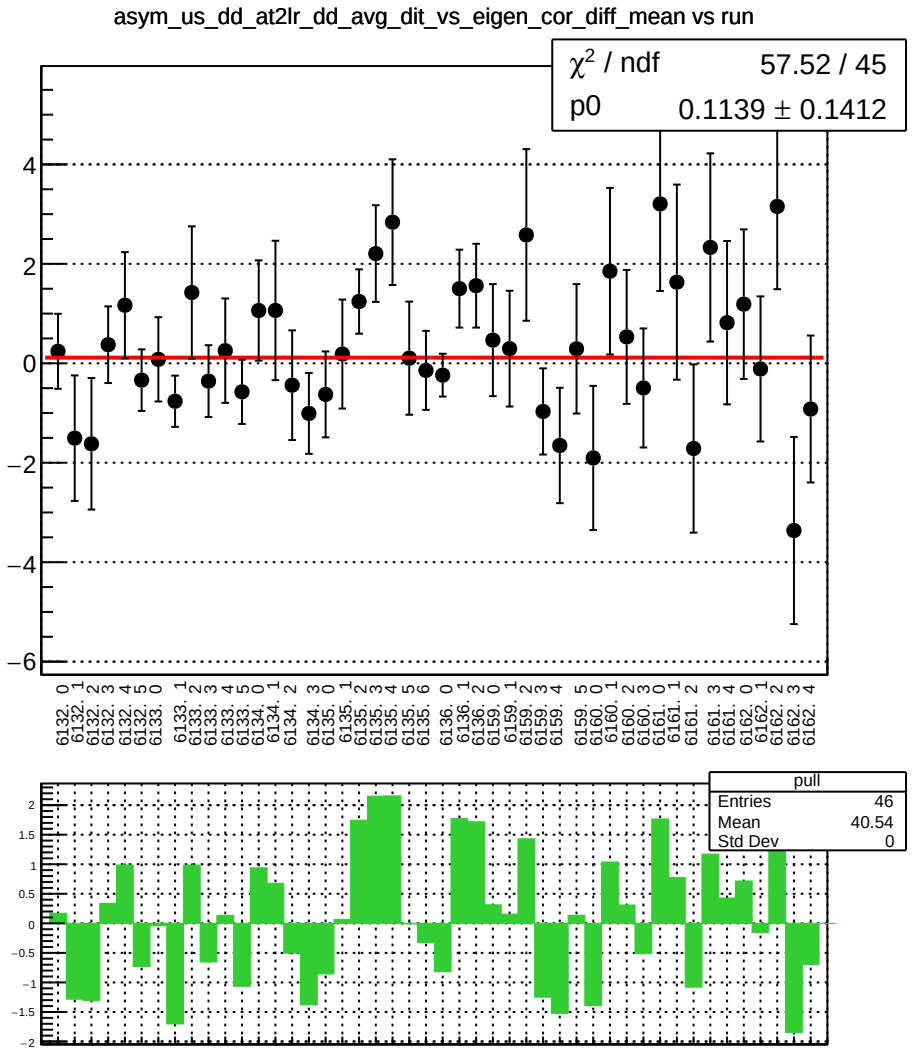

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 50.6 / 45
p0 3.137e−13 ± 3.086e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −0.7803
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.1267
Std Dev 1.041
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

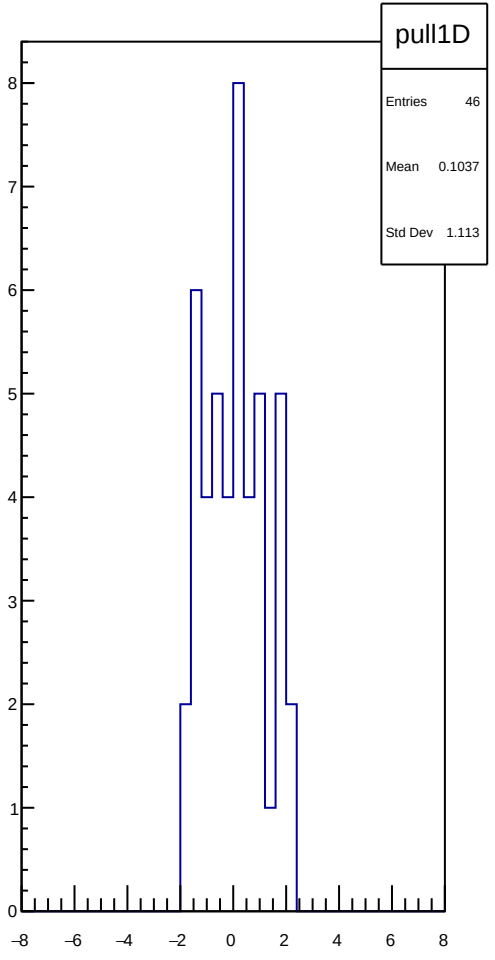

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.875e+05 / 45
p0 1.255e−10 ± 2.182e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

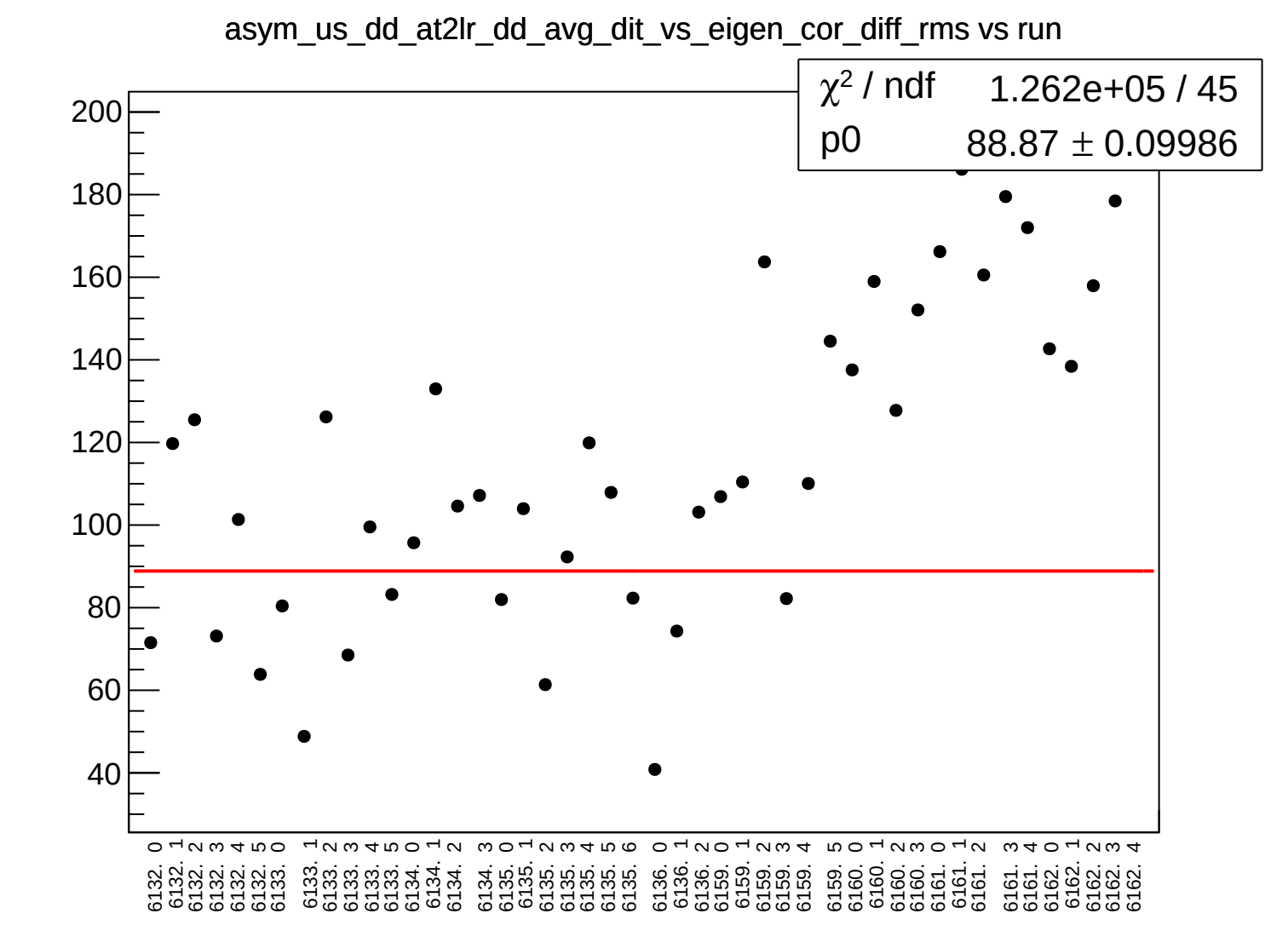

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 57.52 / 45
p0 0.1139 ± 0.1412
pull
Entries 46
Mean 40.54
Std Dev 0

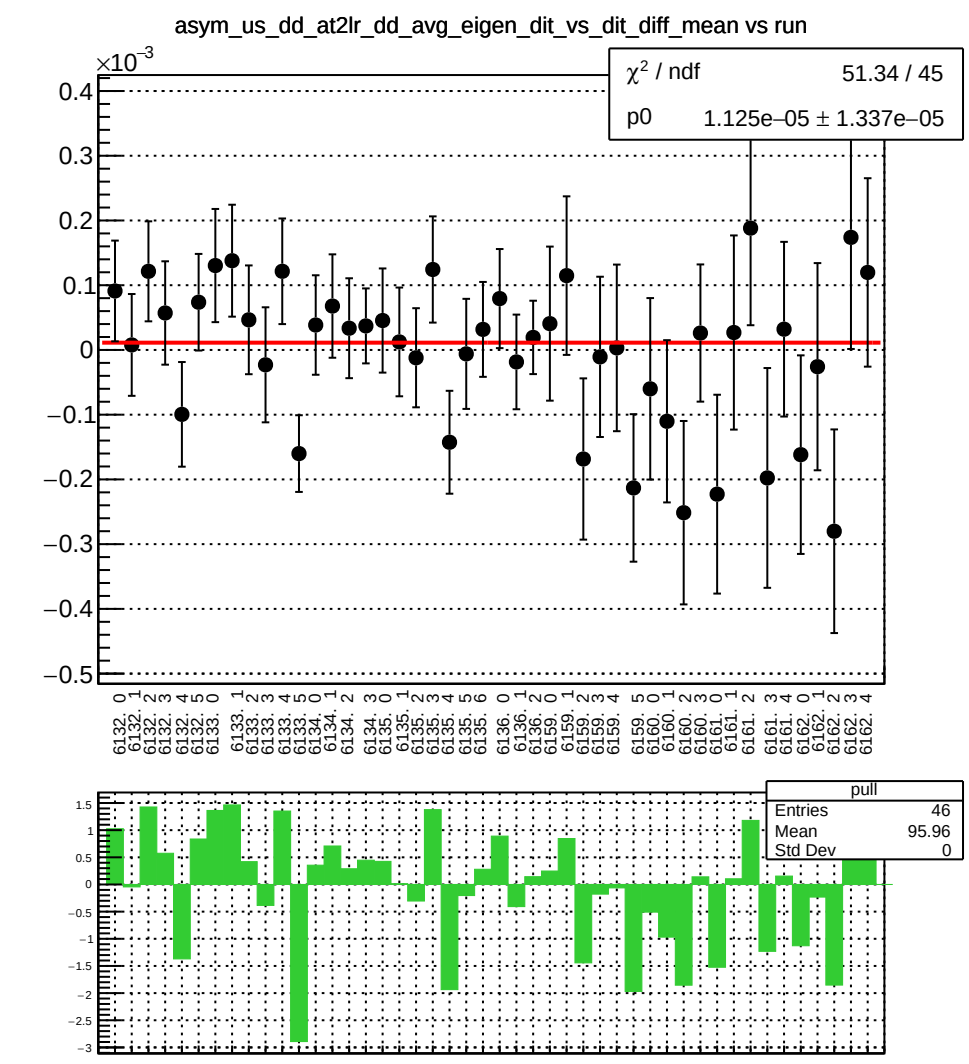

pull1D
Entries 46
Mean 0.1037
Std Dev 1.113

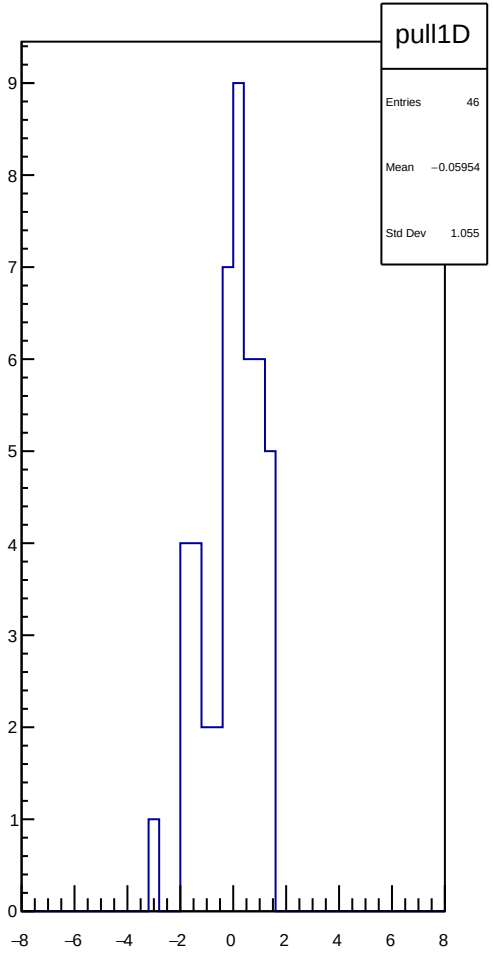

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.262e+05 / 45
p0 88.87 ± 0.09986
200
180
160
140
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

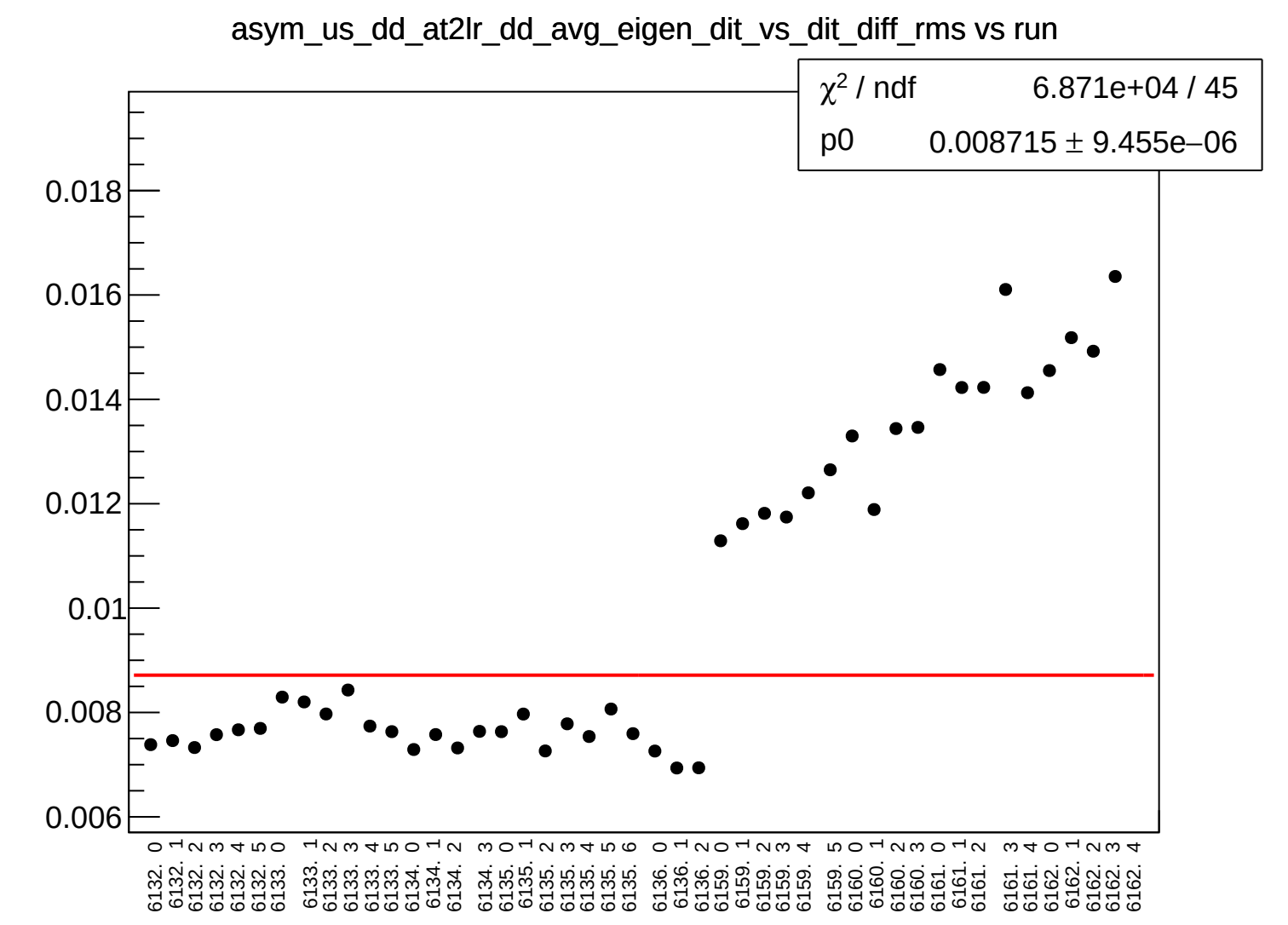

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.52 / 45
p0 0.1139 ± 0.1412
pull
Entries 46
Mean 40.54
Std Dev 0

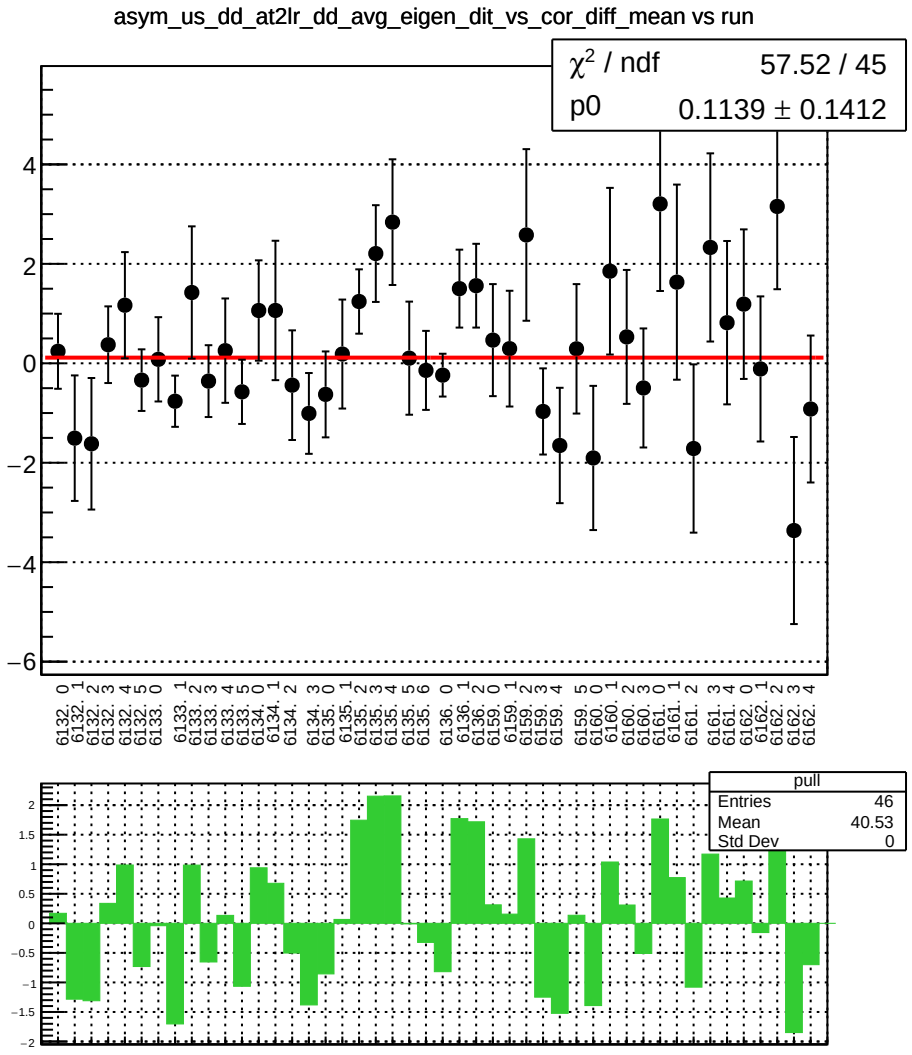

pull1D
Entries 46
Mean 0.1037
Std Dev 1.113

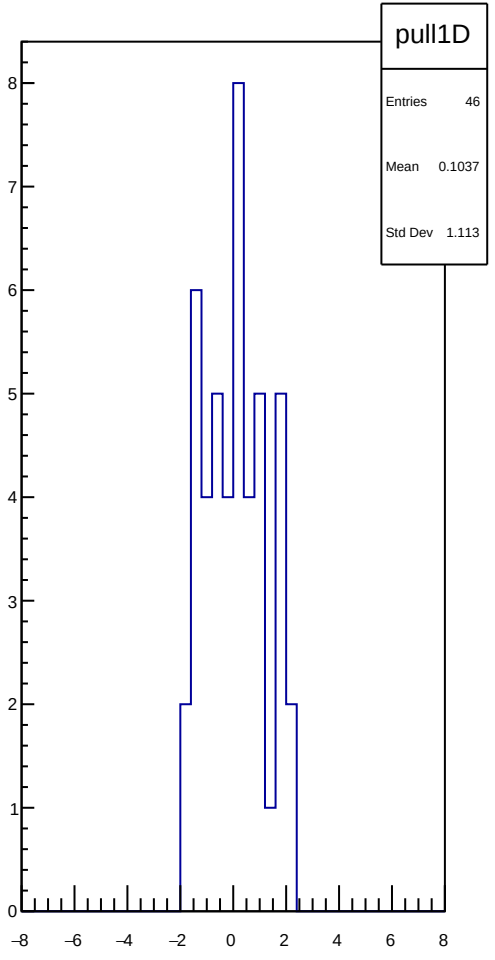

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.262e+05 / 45
p0 88.87 ± 0.09986
200
180
160
140
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

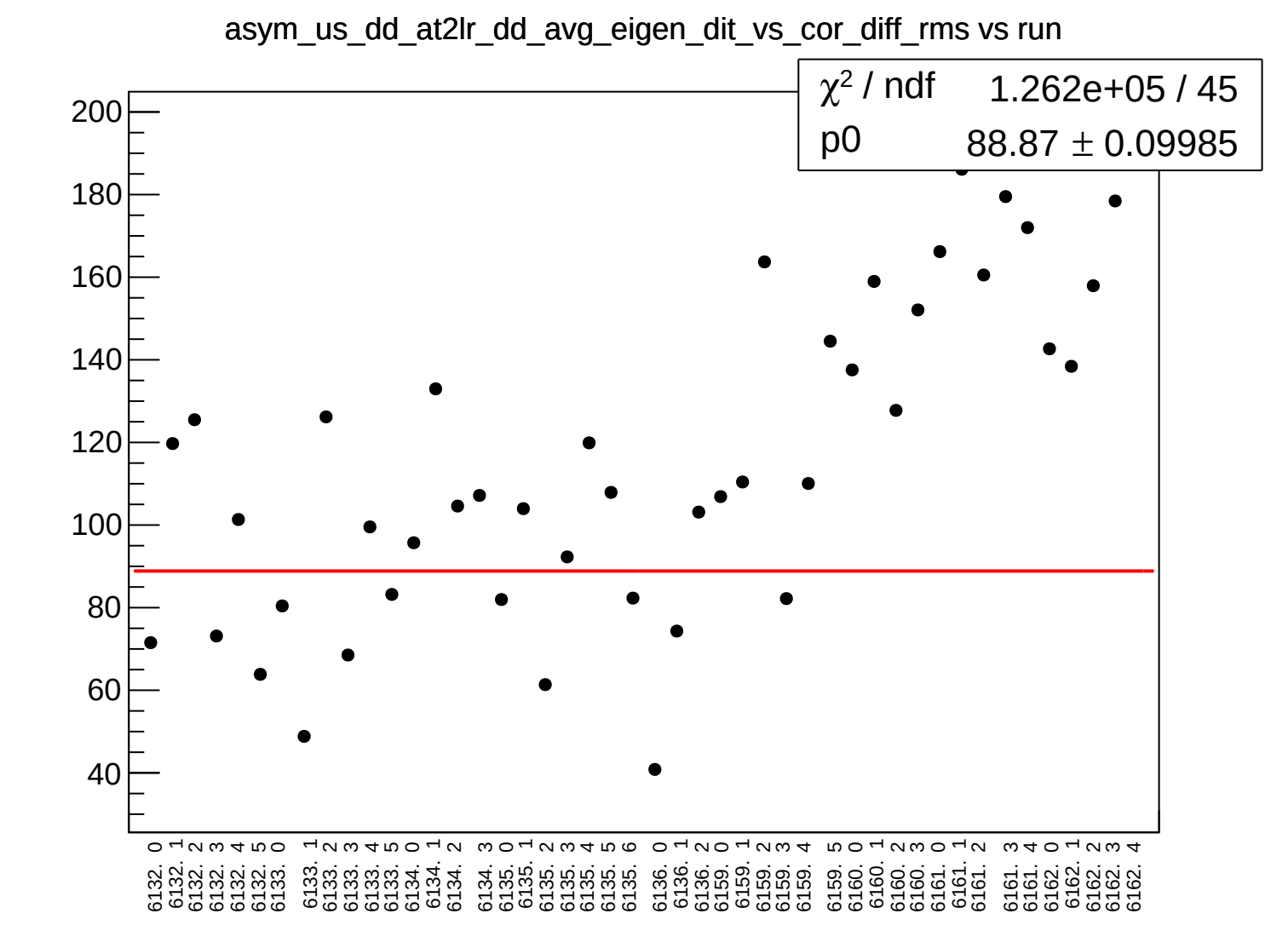

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 51.34 / 45
p0 1.125e−05 ± 1.337e−05
pull
Entries 46
Mean 95.96
Std Dev 0

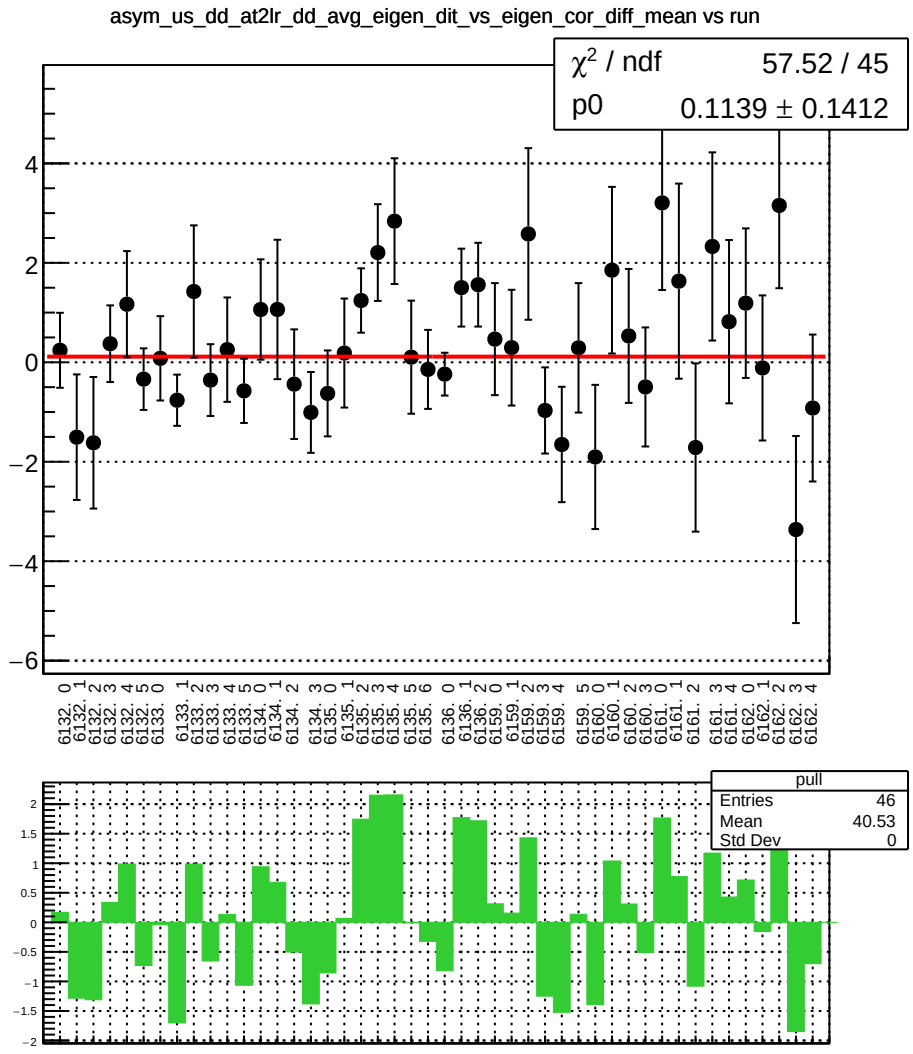

pull1D
Entries 46
Mean −0.05954
Std Dev 1.055

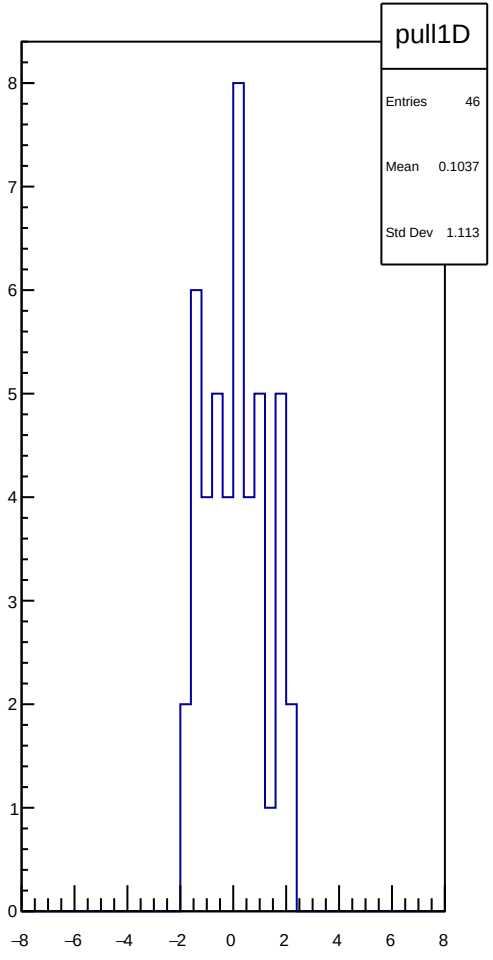

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.871e+04 / 45
p0 0.008715 ± 9.455e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

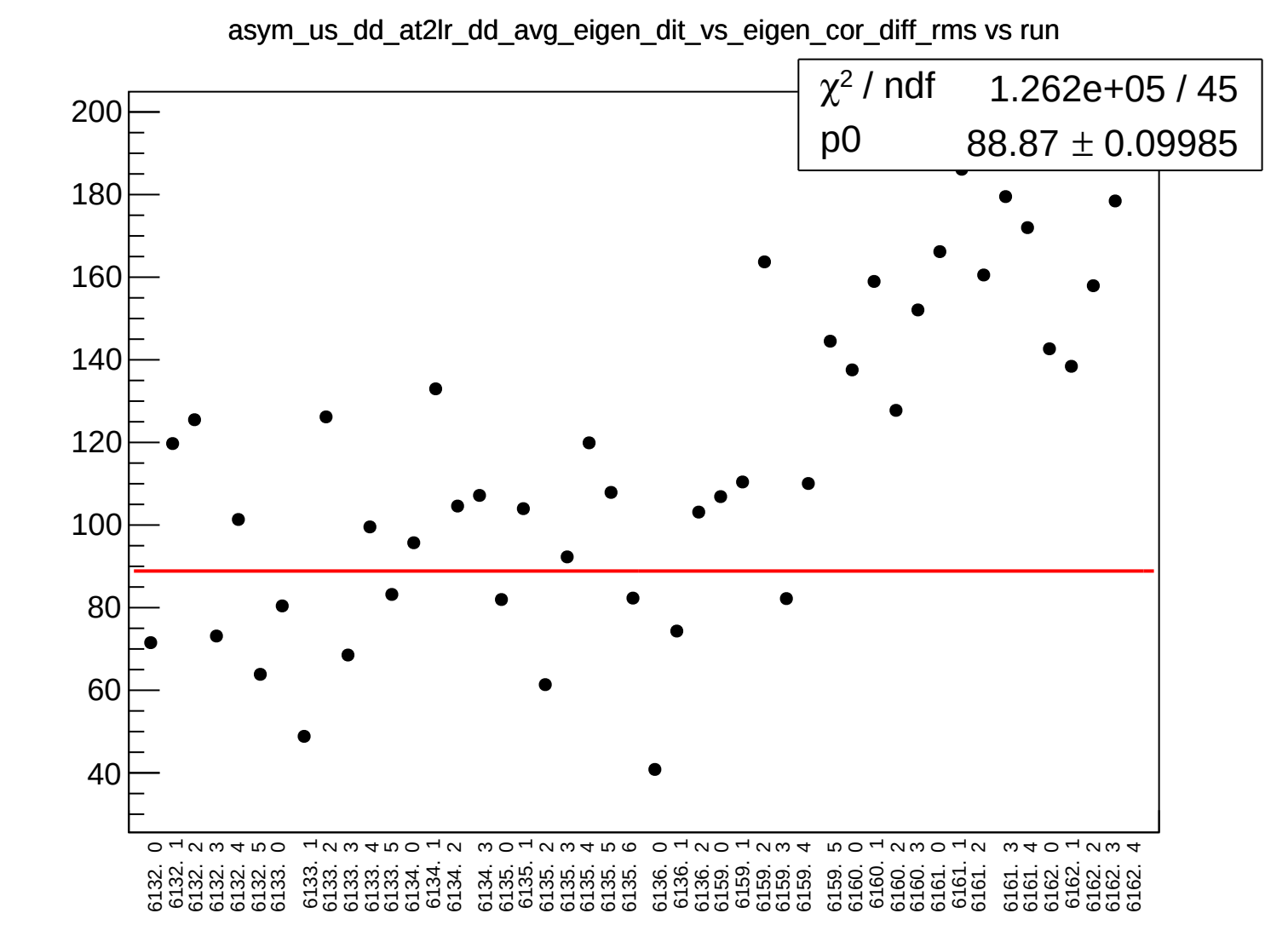

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 57.52 / 45
p0 0.1139 ± 0.1412
pull
Entries 46
Mean 40.53
Std Dev 0

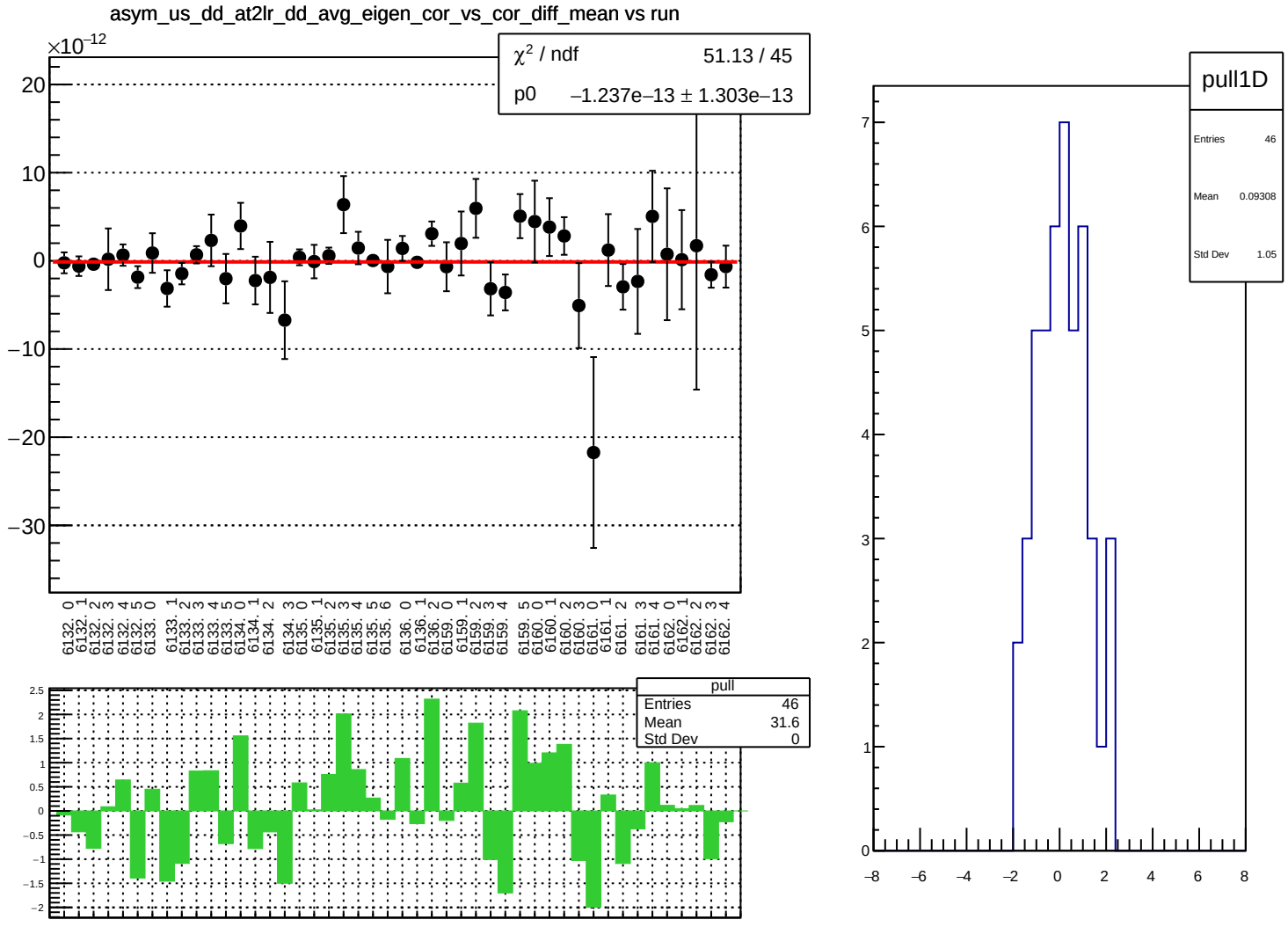

pull1D
Entries 46
Mean 0.1037
Std Dev 1.113

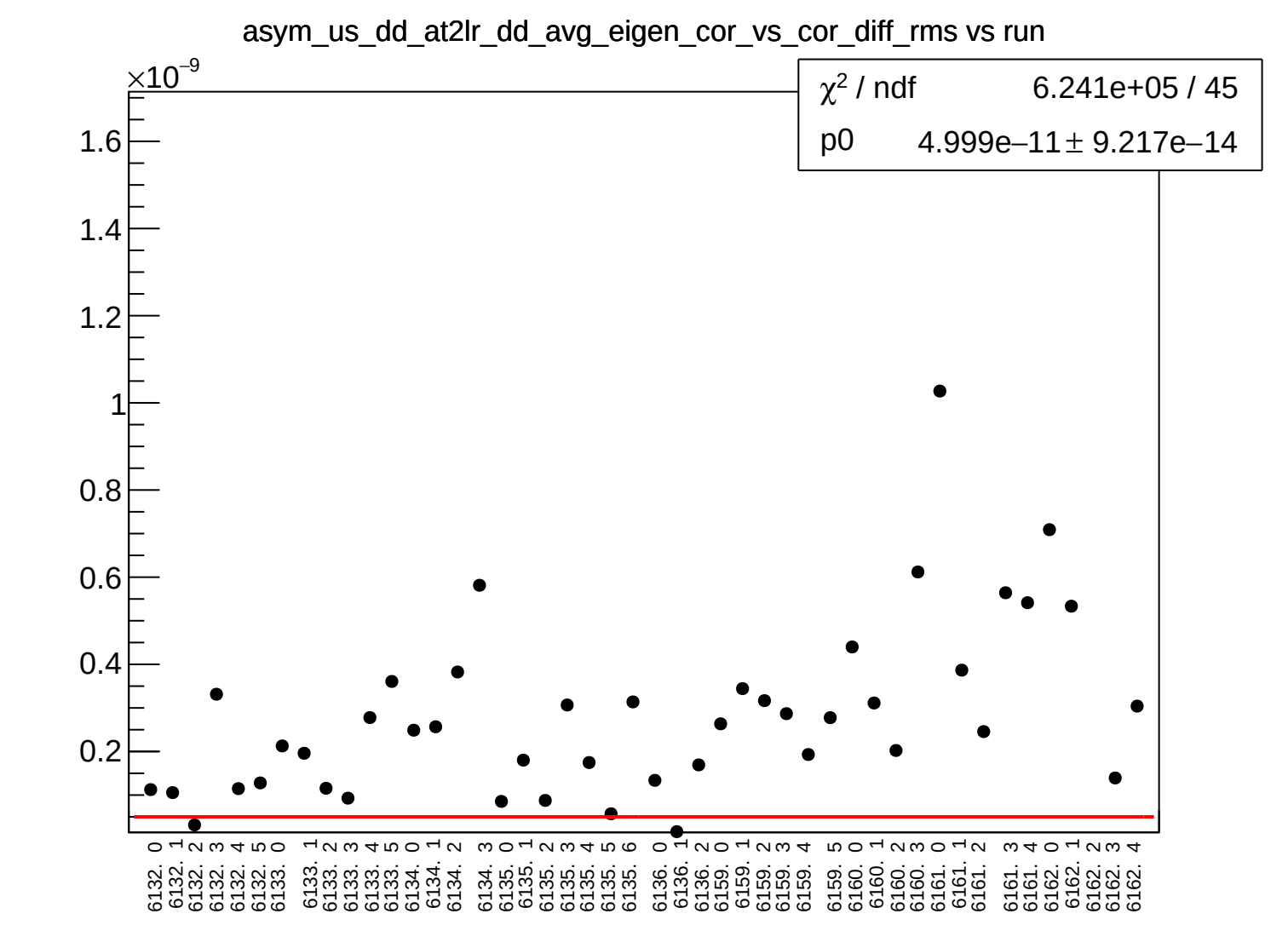

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.262e+05 / 45
p0 88.87 ± 0.09985
200
180
160
140
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

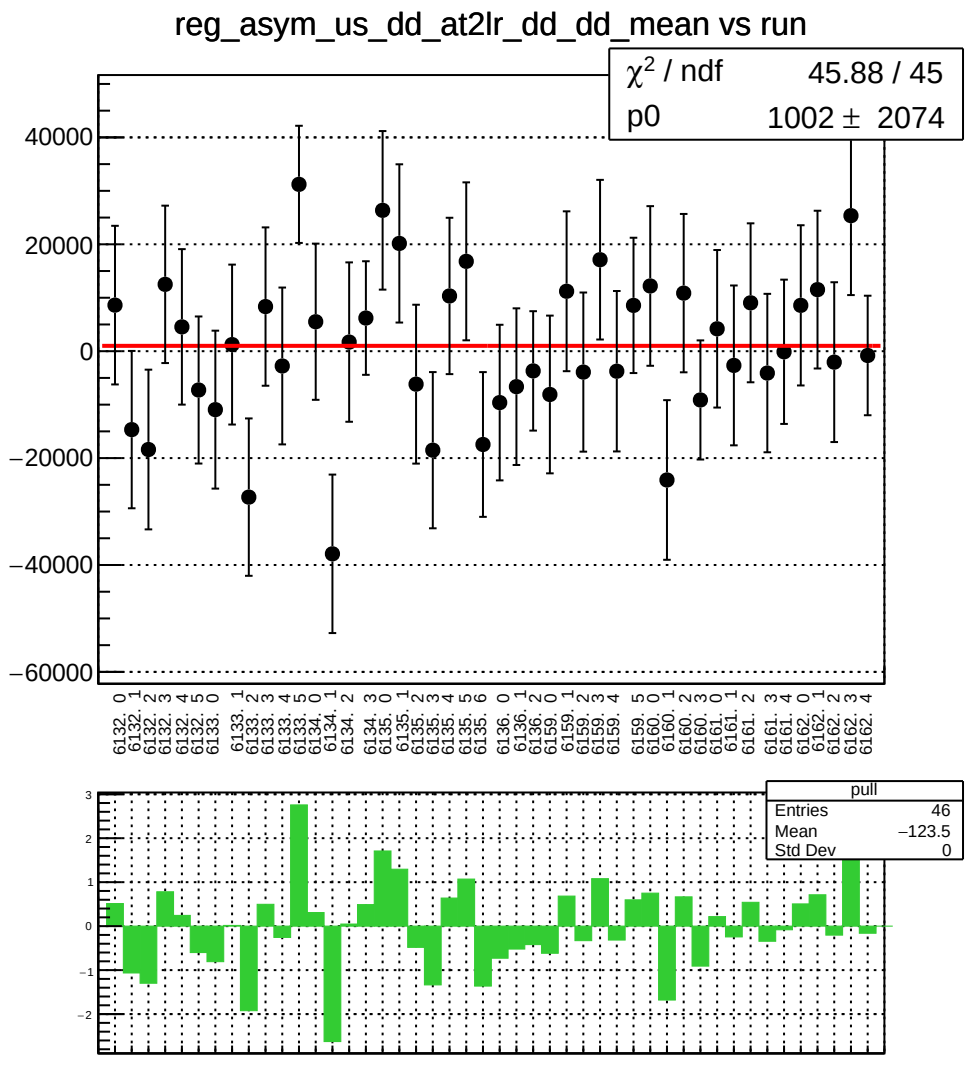

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.52 / 45
p0 0.1139 ± 0.1412
pull
Entries 46
Mean 40.53
Std Dev 0

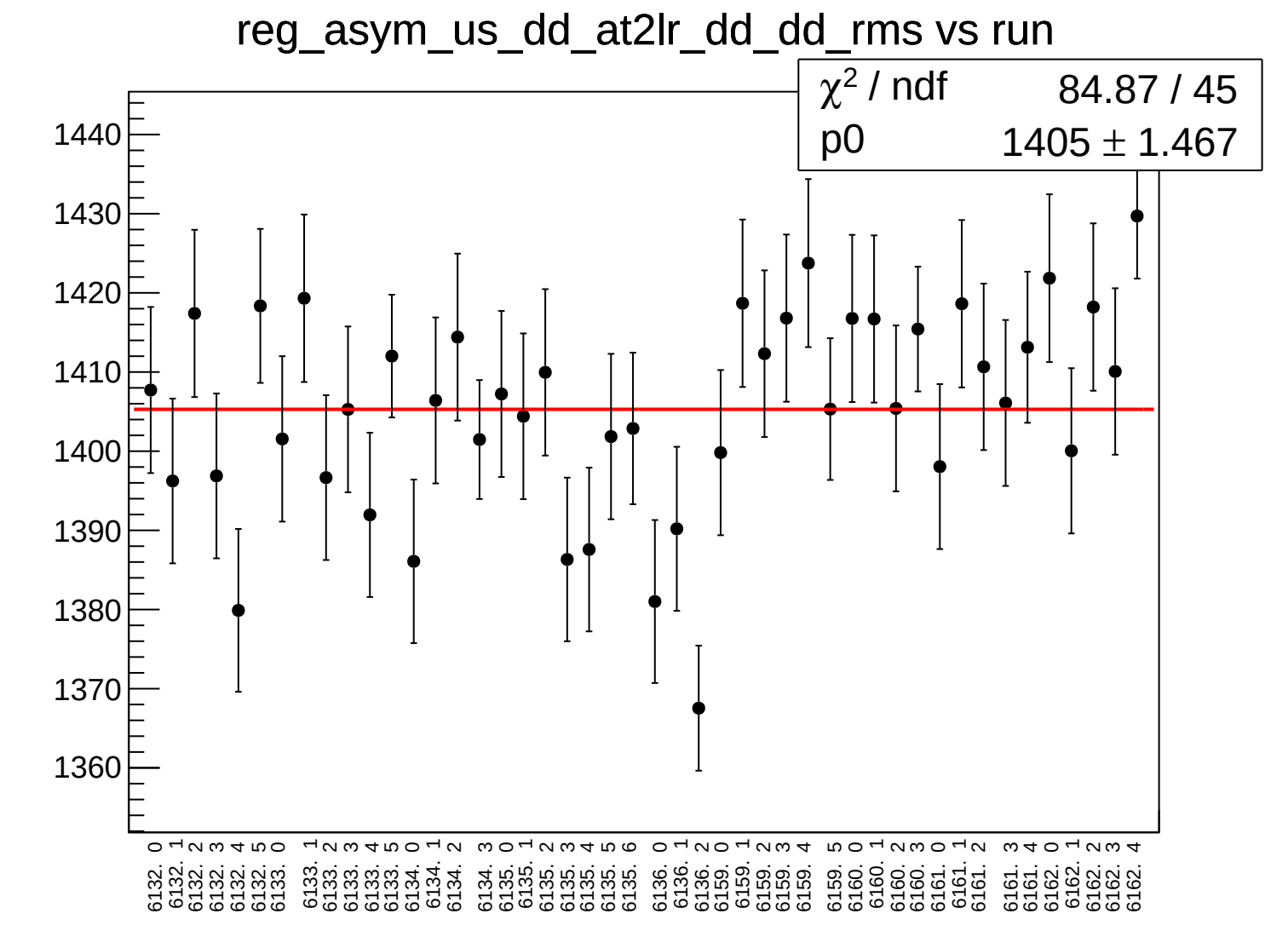

pull1D
Entries 46
Mean 0.1037
Std Dev 1.113


asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.262e+05 / 45
p0 88.87 ± 0.09985
200
180
160
140
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 51.13 / 45
p0 −1.237e−13 ± 1.303e−13
pull
Entries 46
Mean 31.6
Std Dev 0
pull1D
Entries 46
Mean 0.09308
Std Dev 1.05


asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.241e+05 / 45
p0 4.999e−11 ± 9.217e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 45.88 / 45
p0 1002 ± 2074
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −123.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.01216
Std Dev 0.9986
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 84.87 / 45
p0 1405 ± 1.467
1440
1430
1420
1410
1400
1390
1380
1370
1360
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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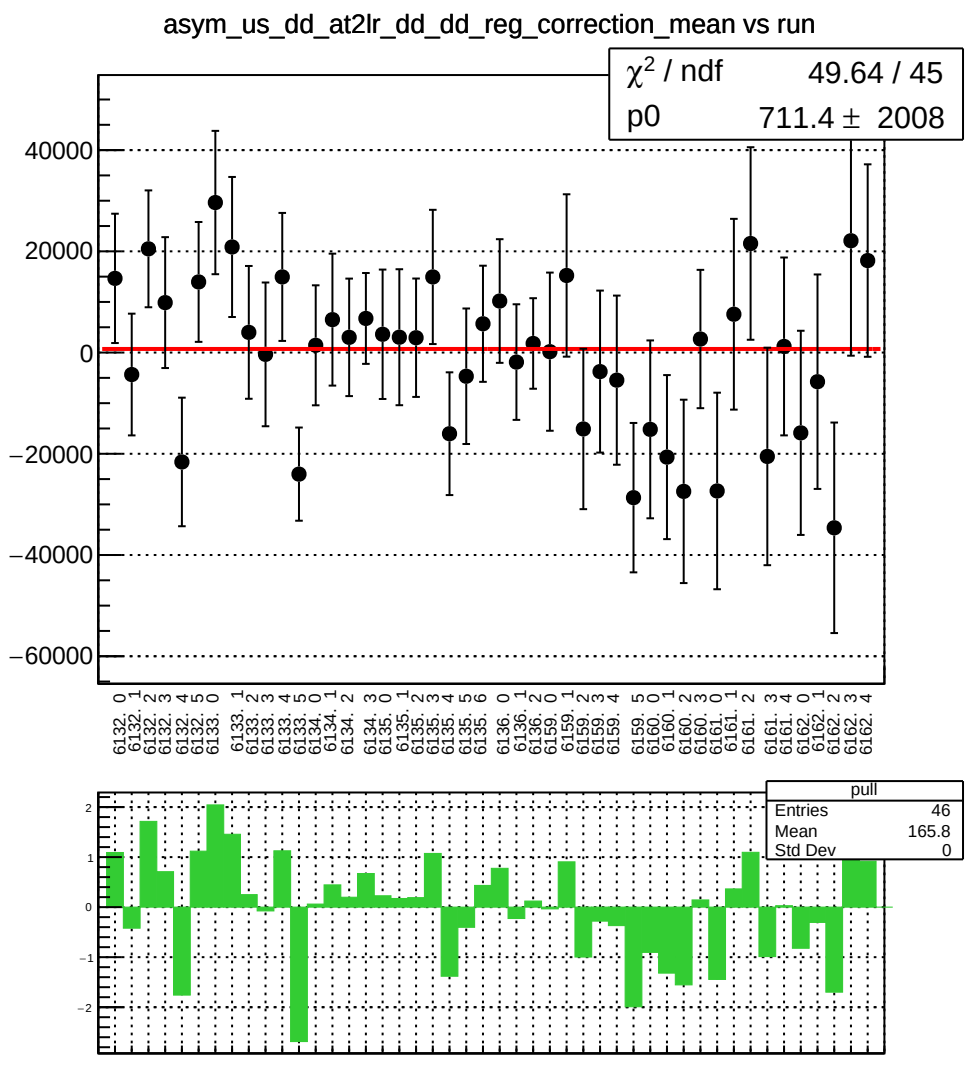
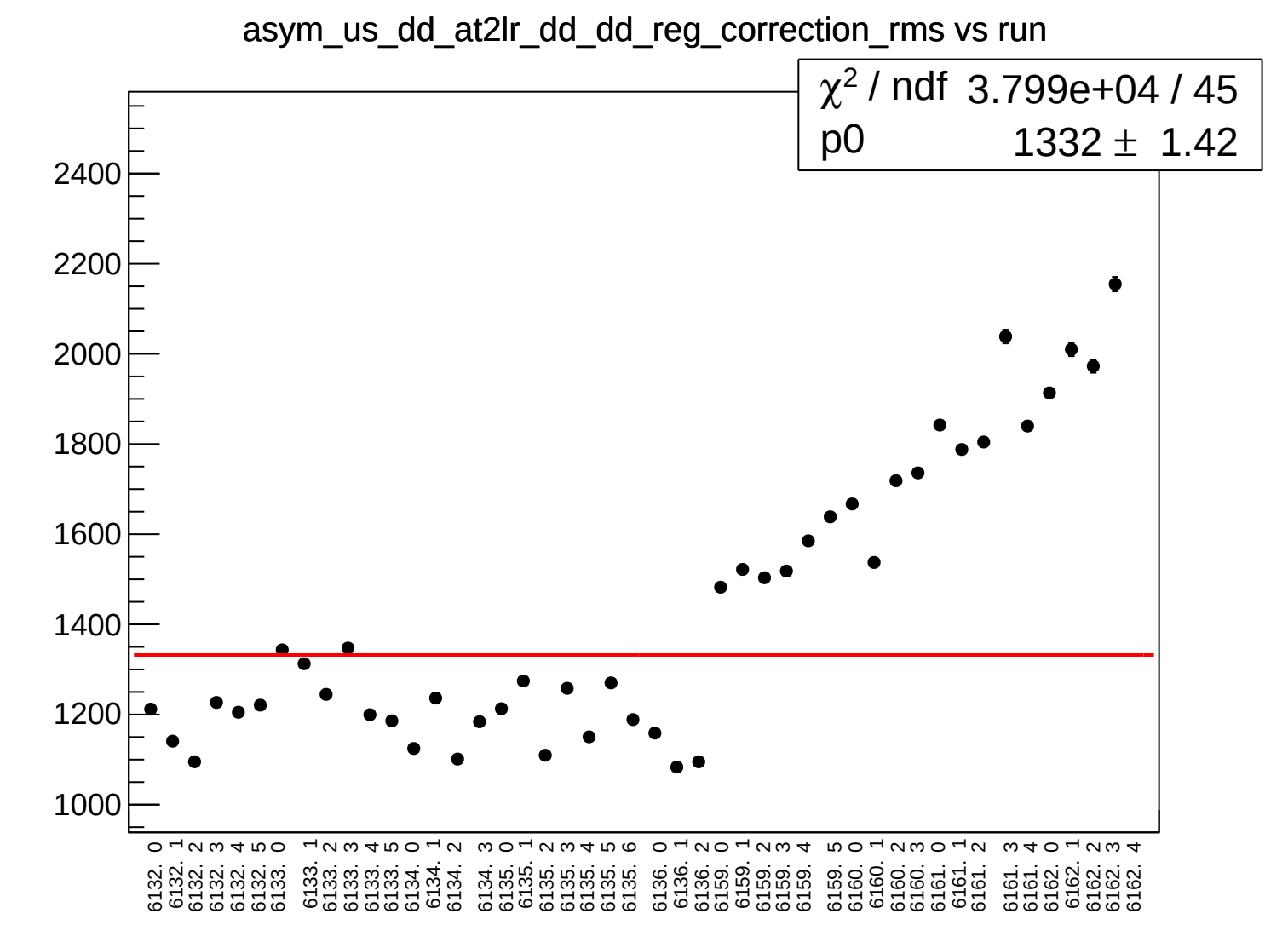
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 49.64 / 45
p0 711.4 ± 2008
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 165.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.0301
Std Dev 1.038
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 3.799e+04 / 45
p0 1332 ± 1.42
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 6
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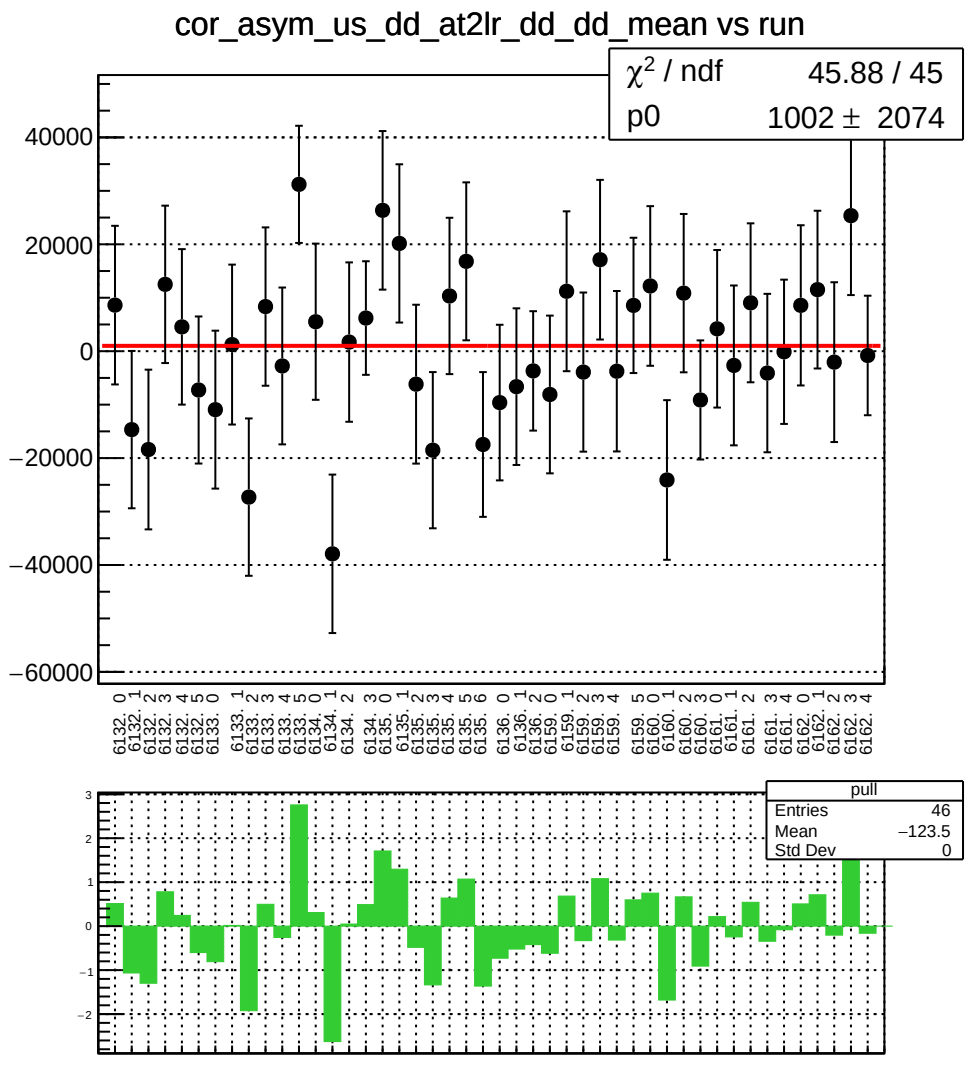
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 45.88 / 45
p0 1002 ± 2074
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −123.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.01216
Std Dev 0.9986
12
10
8
6
4
2
0
−8
−6
−4
−2
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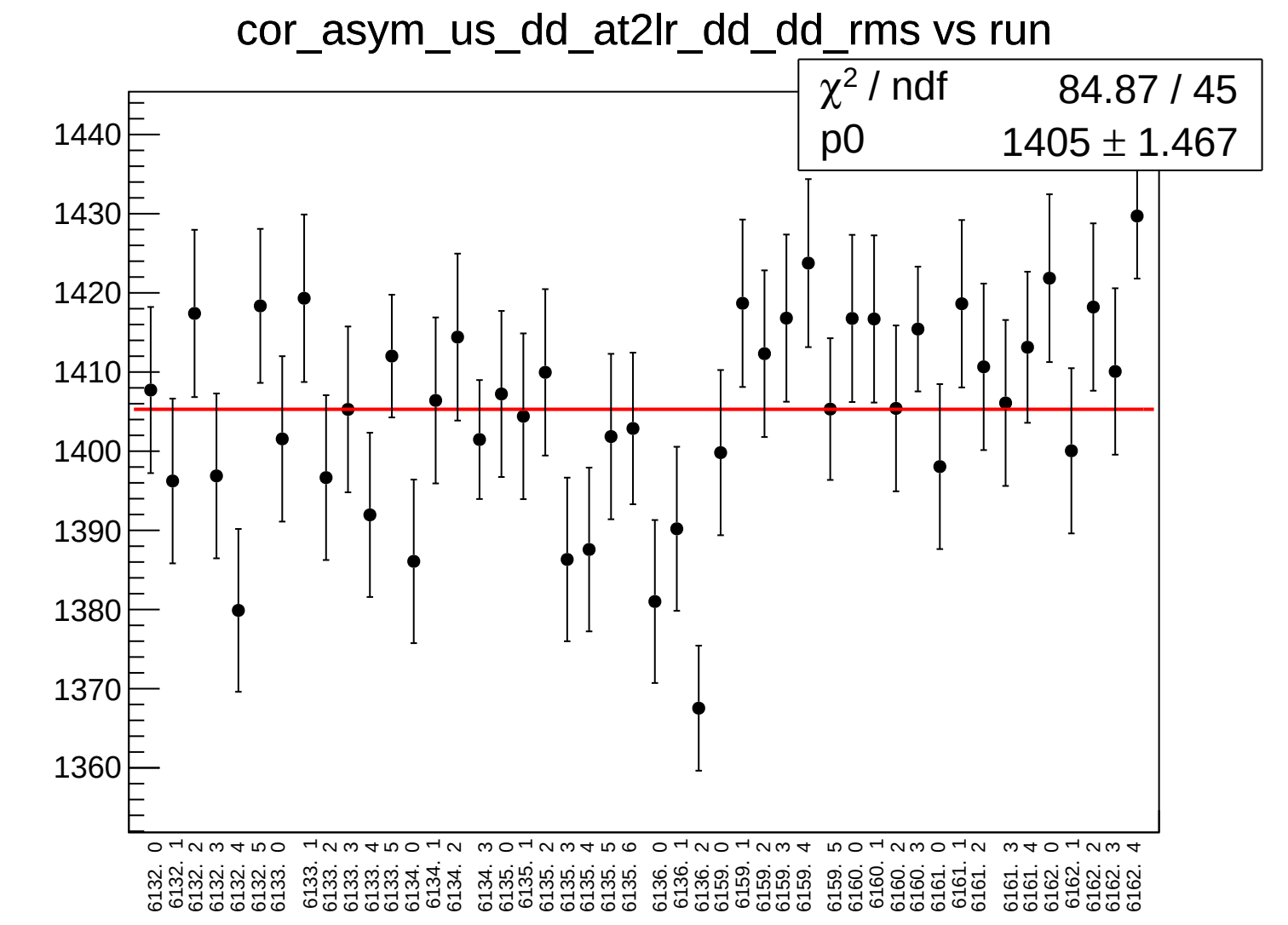
cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 84.87 / 45
p0 1405 ± 1.467
1440
1430
1420
1410
1400
1390
1380
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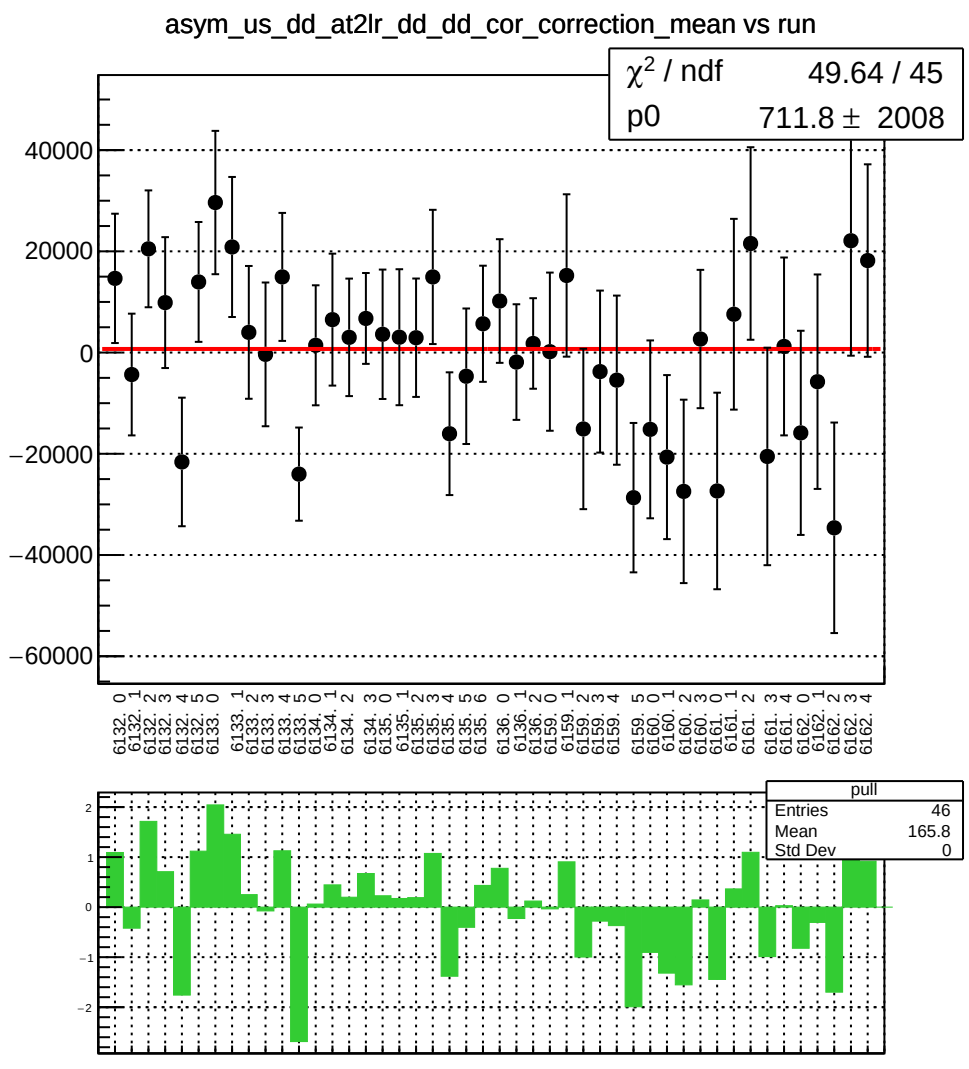
asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 49.64 / 45
p0 711.8 ± 2008
40000
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0
−20000
−40000
−60000
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6161. 4
6162. 0
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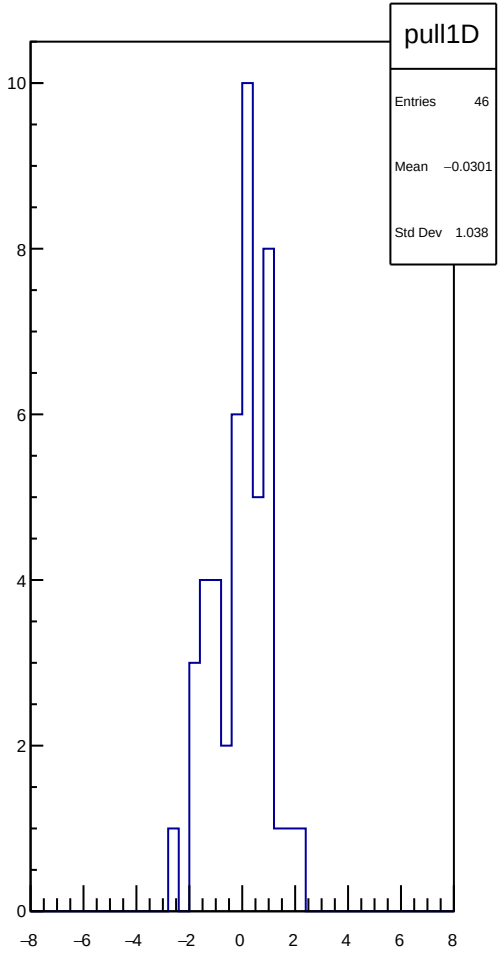
pull
Entries 46
Mean 165.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.0301
Std Dev 1.038
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−4
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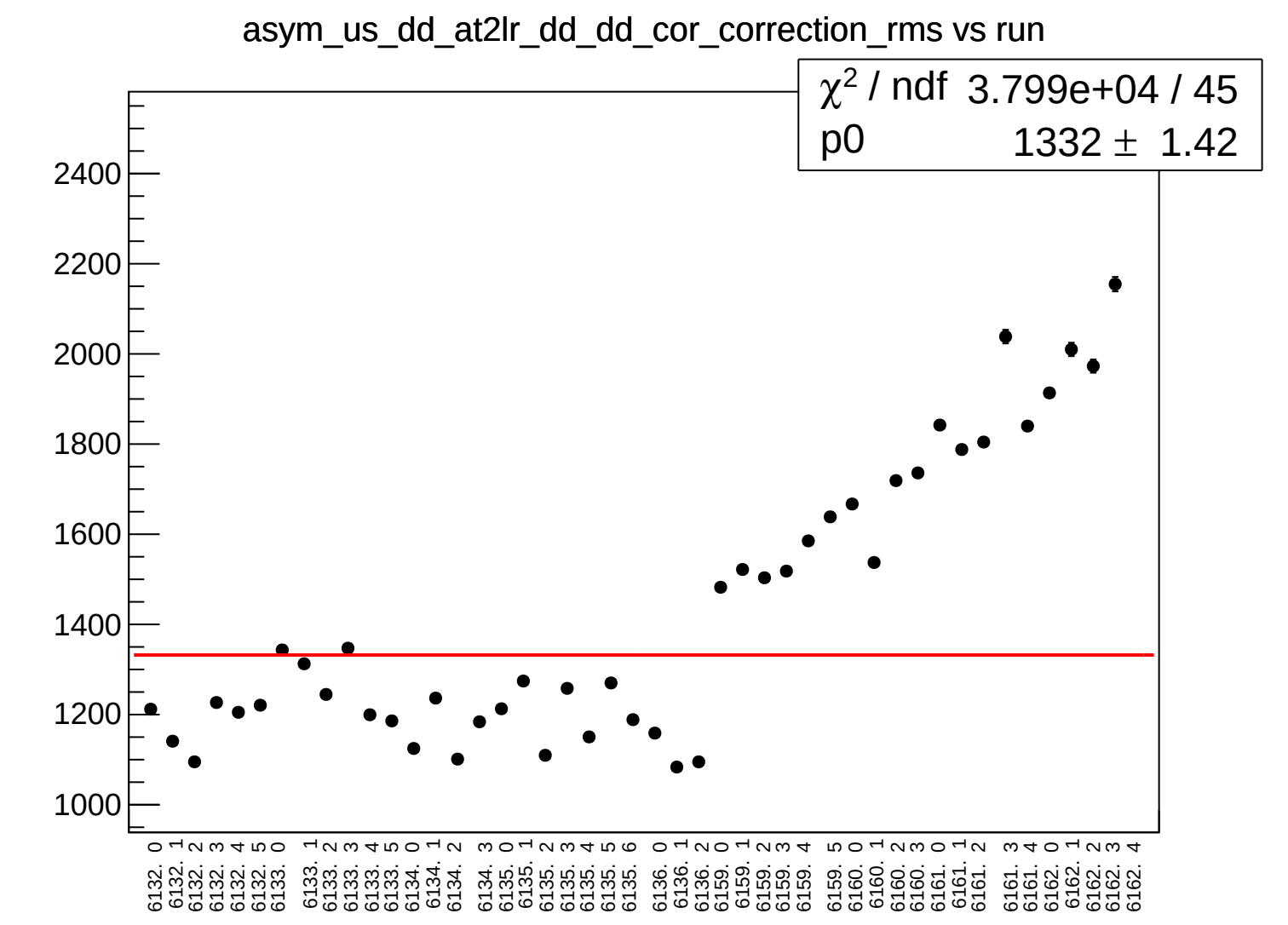
8


asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 3.799e+04 / 45
p0 1332 ± 1.42
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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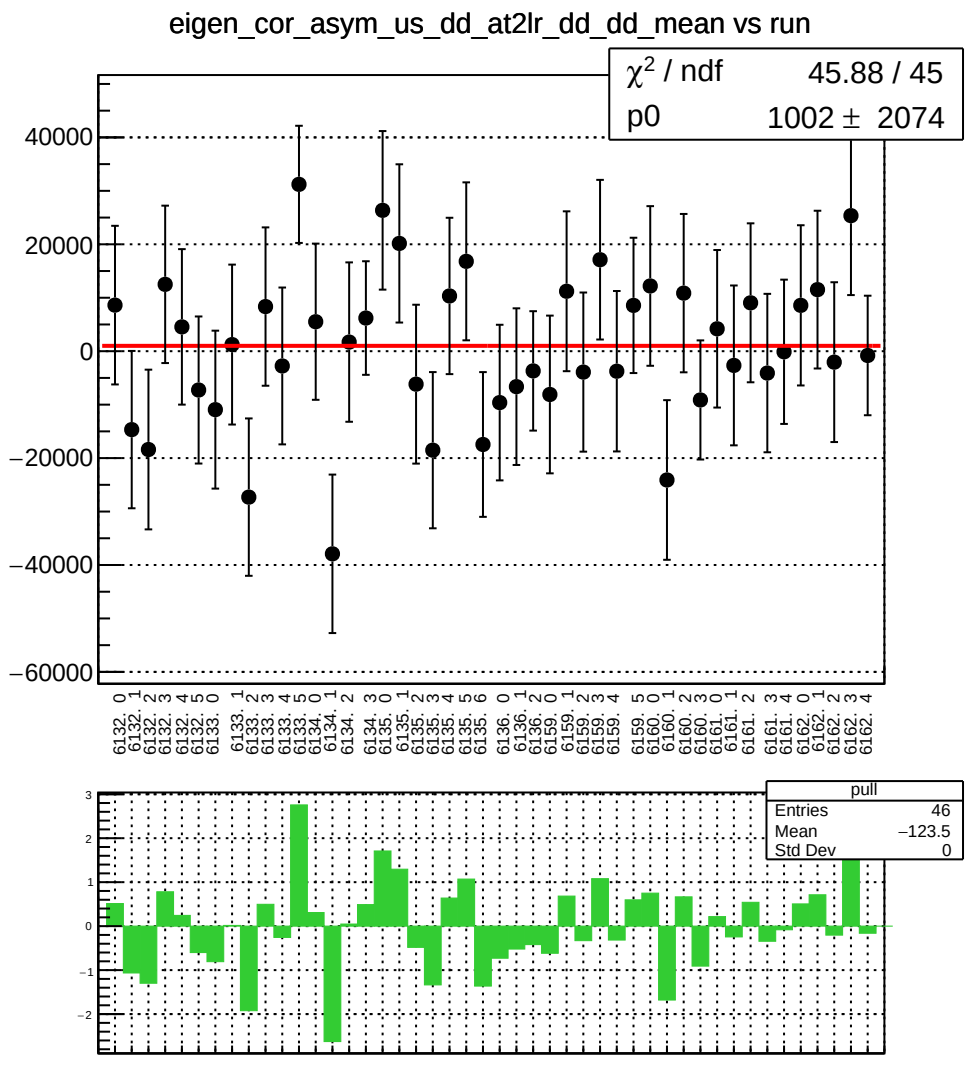
eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 45.88 / 45
p0 1002 ± 2074
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20000
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−20000
−40000
−60000
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6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −123.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.01216
Std Dev 0.9986
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10
8
6
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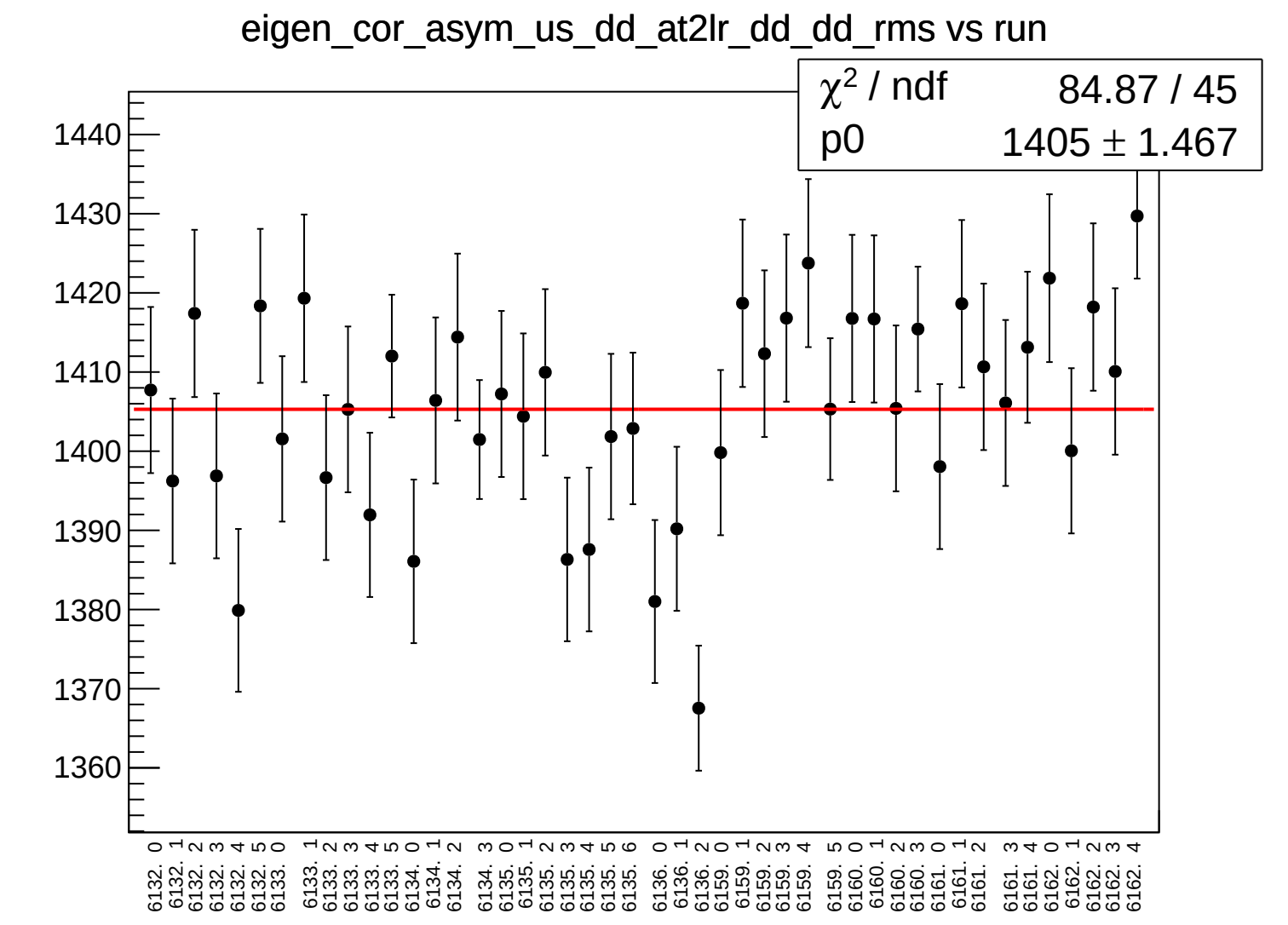
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 84.87 / 45
p0 1405 ± 1.467
1440
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6132. 0
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6132. 5
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6133. 5
6134. 0
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6135. 1
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6135. 6
6136. 0
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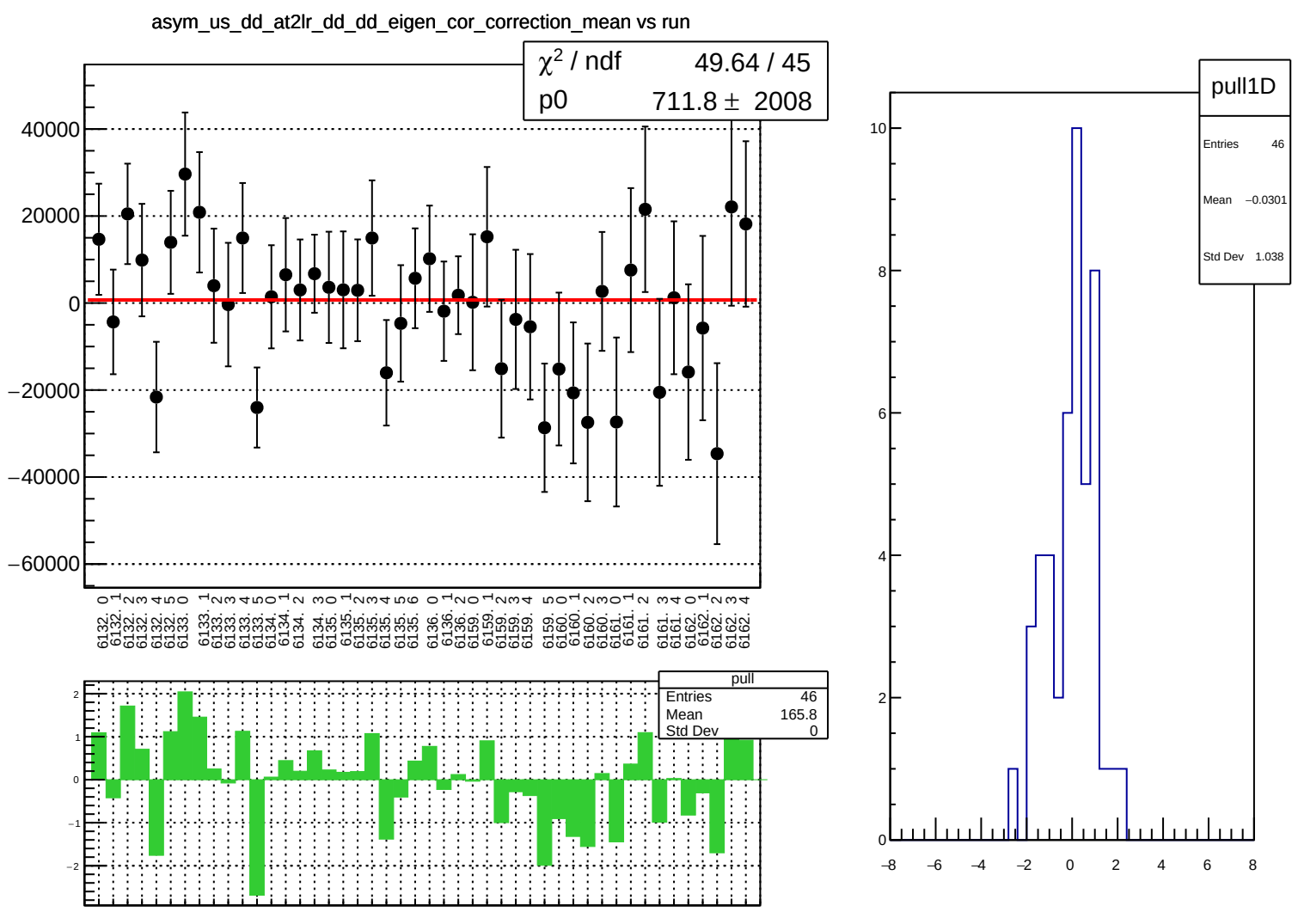
asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 49.64 / 45
p0 711.8 ± 2008
40000
20000
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−20000
−40000
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6132. 1
6132. 2
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6161. 2
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6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 165.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.0301
Std Dev 1.038
10
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−6
−4
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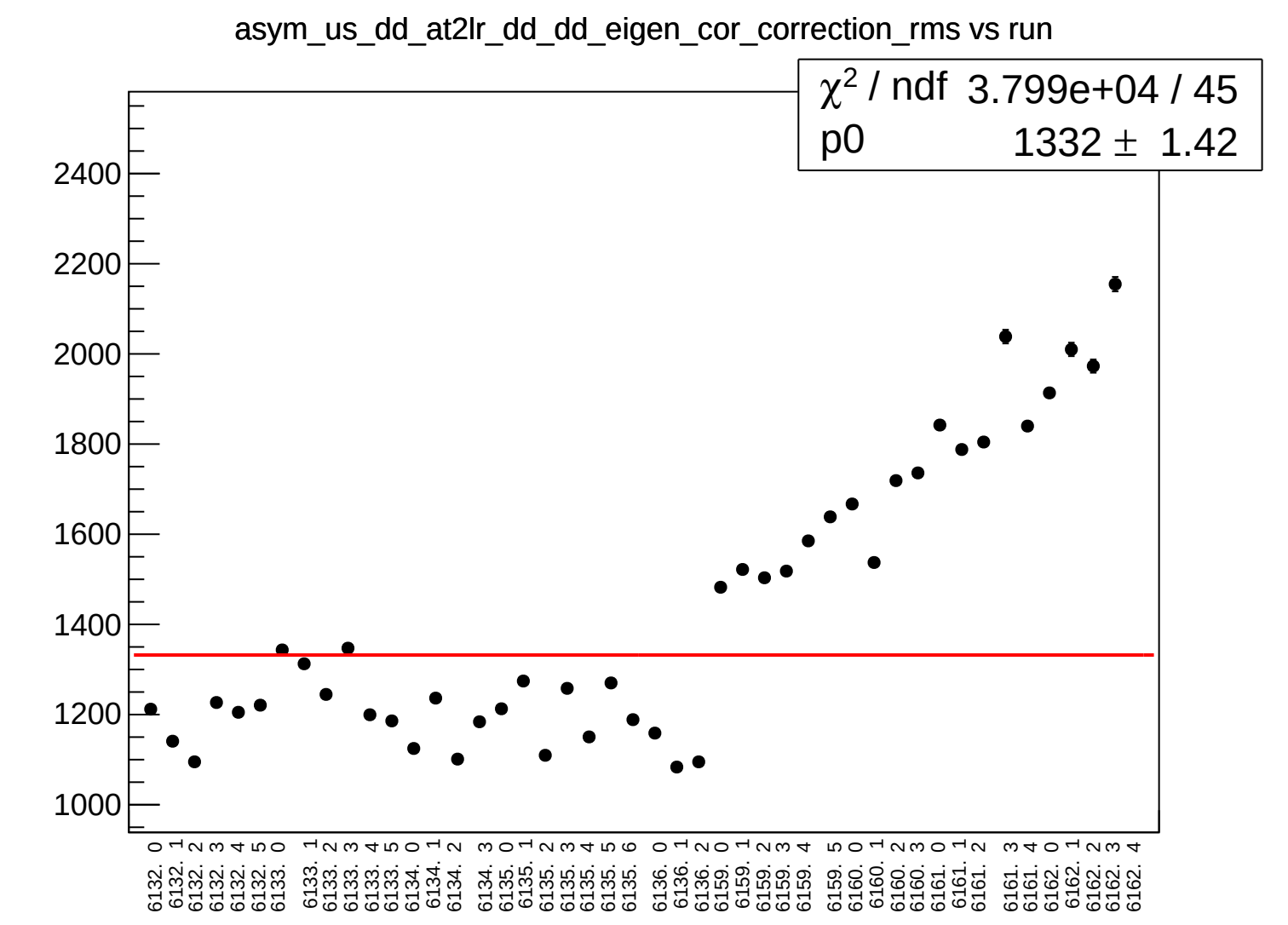
asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.799e+04 / 45
p0 1332 ± 1.42
2400
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6132. 0
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6132. 2
6132. 3
6132. 4
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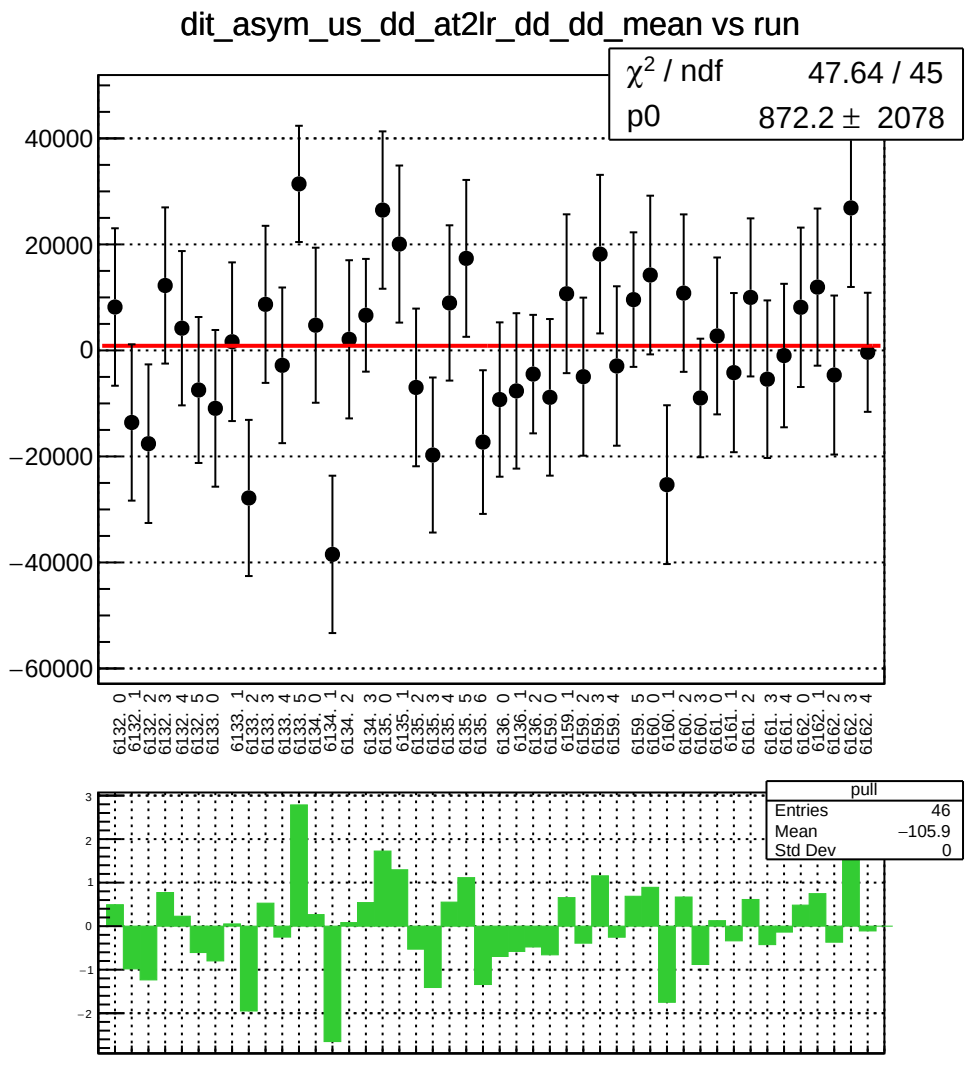
6162. 3
6162. 4


dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 47.64 / 45
p0 872.2 ± 2078
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6161. 2
6161. 3
6161. 4
6162. 0
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6162. 3
6162. 4
pull
Entries 46
Mean −105.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.01311
Std Dev 1.018
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8
6
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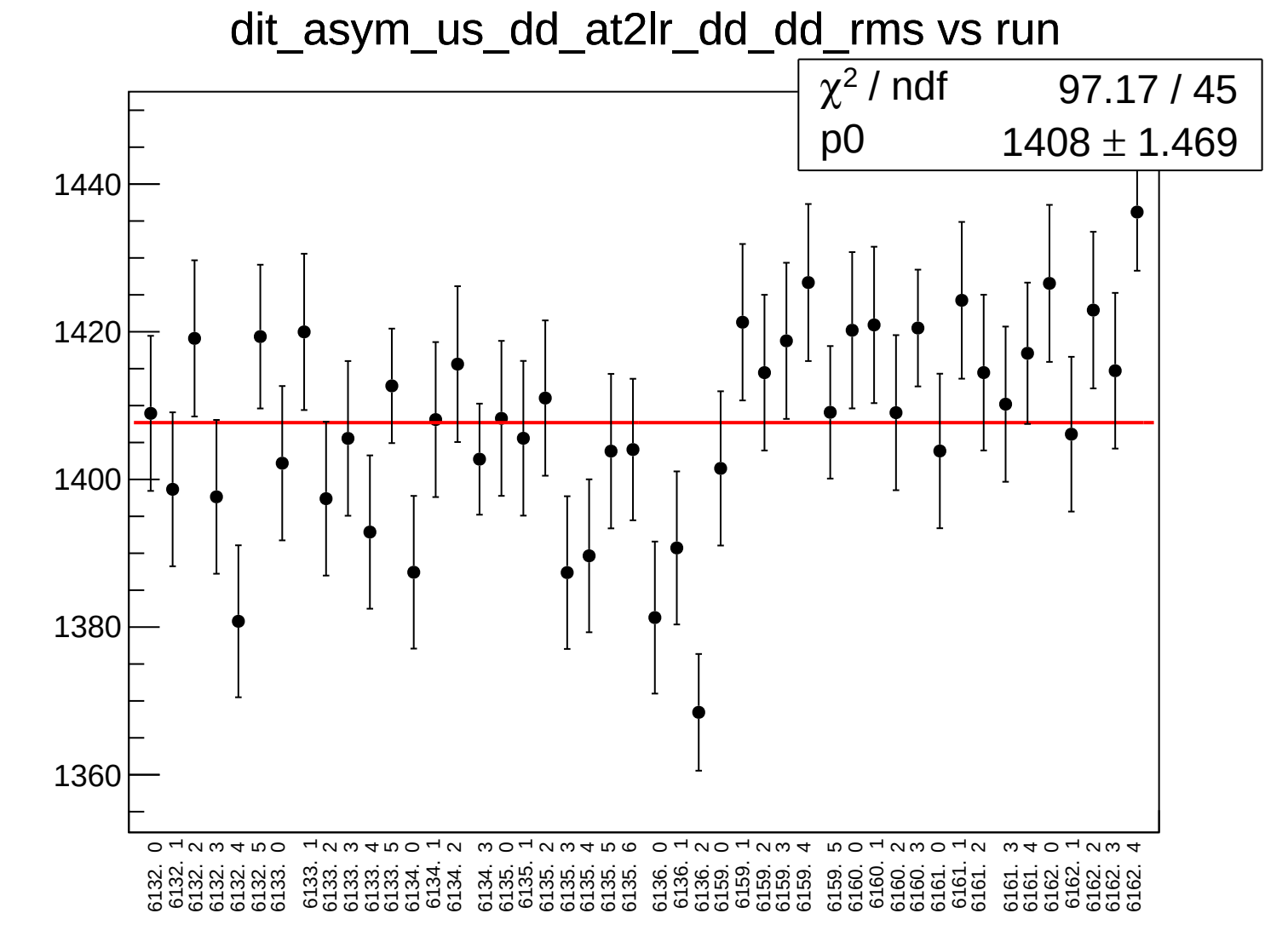
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 97.17 / 45
p0 1408 ± 1.469
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1420
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6132. 0
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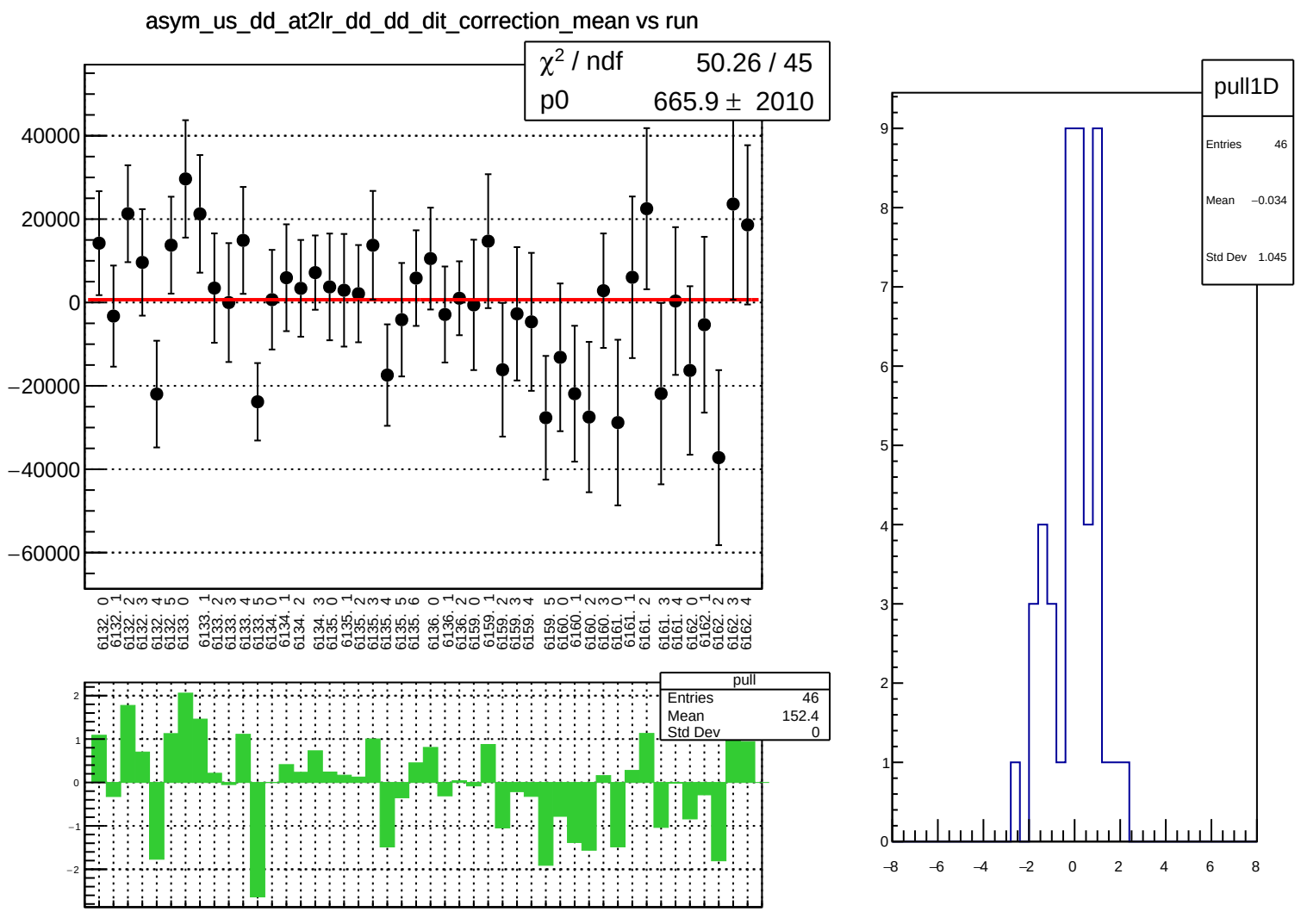
asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 50.26 / 45
p0 665.9 ± 2010
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−40000
−60000
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6162. 1
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pull
Entries 46
Mean 152.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.034
Std Dev 1.045
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−4
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2
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6
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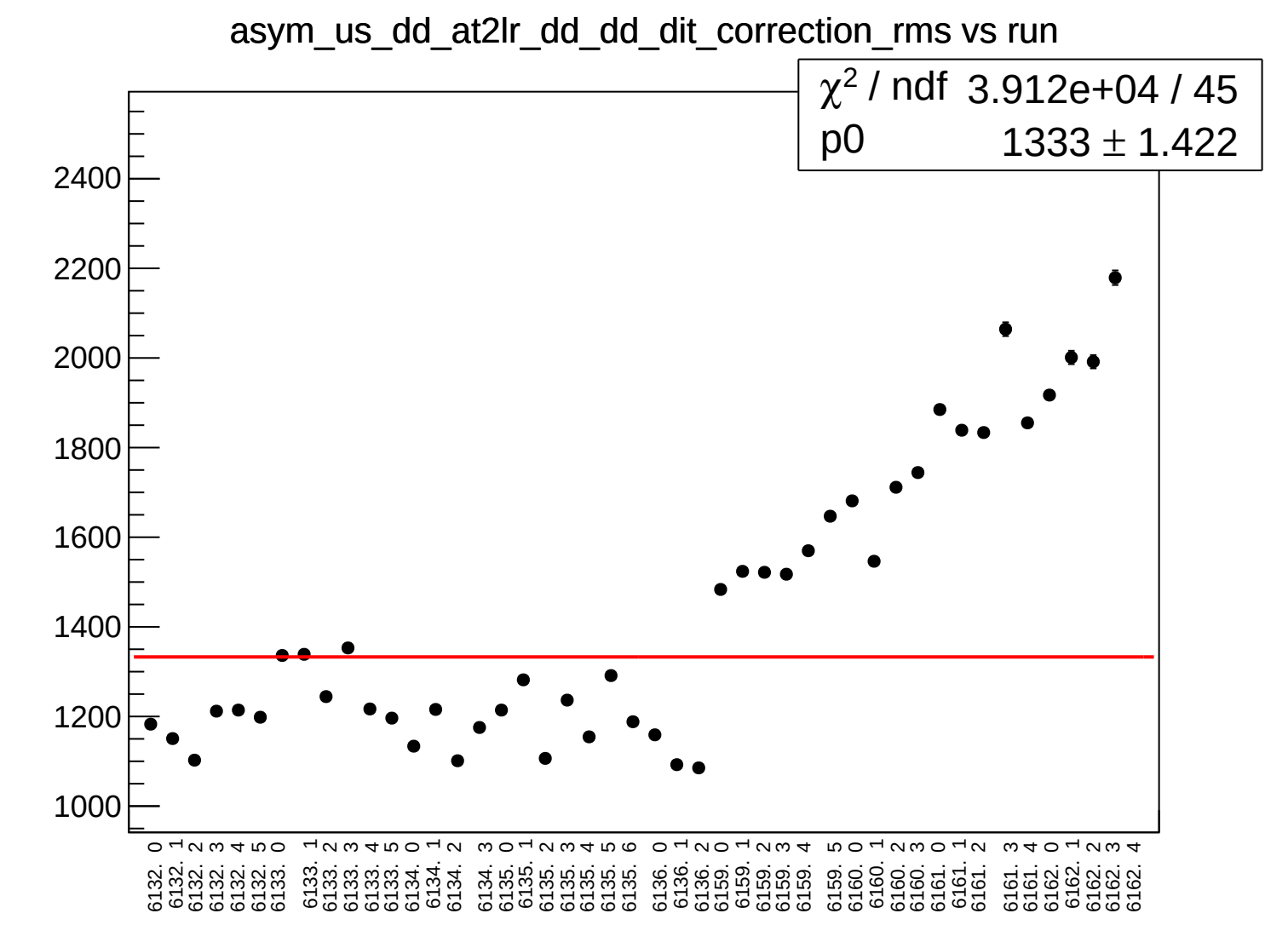
asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 3.912e+04 / 45
p0 1333 ± 1.422
2400
2200
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1800
1600
1400
1200
1000
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6132. 2
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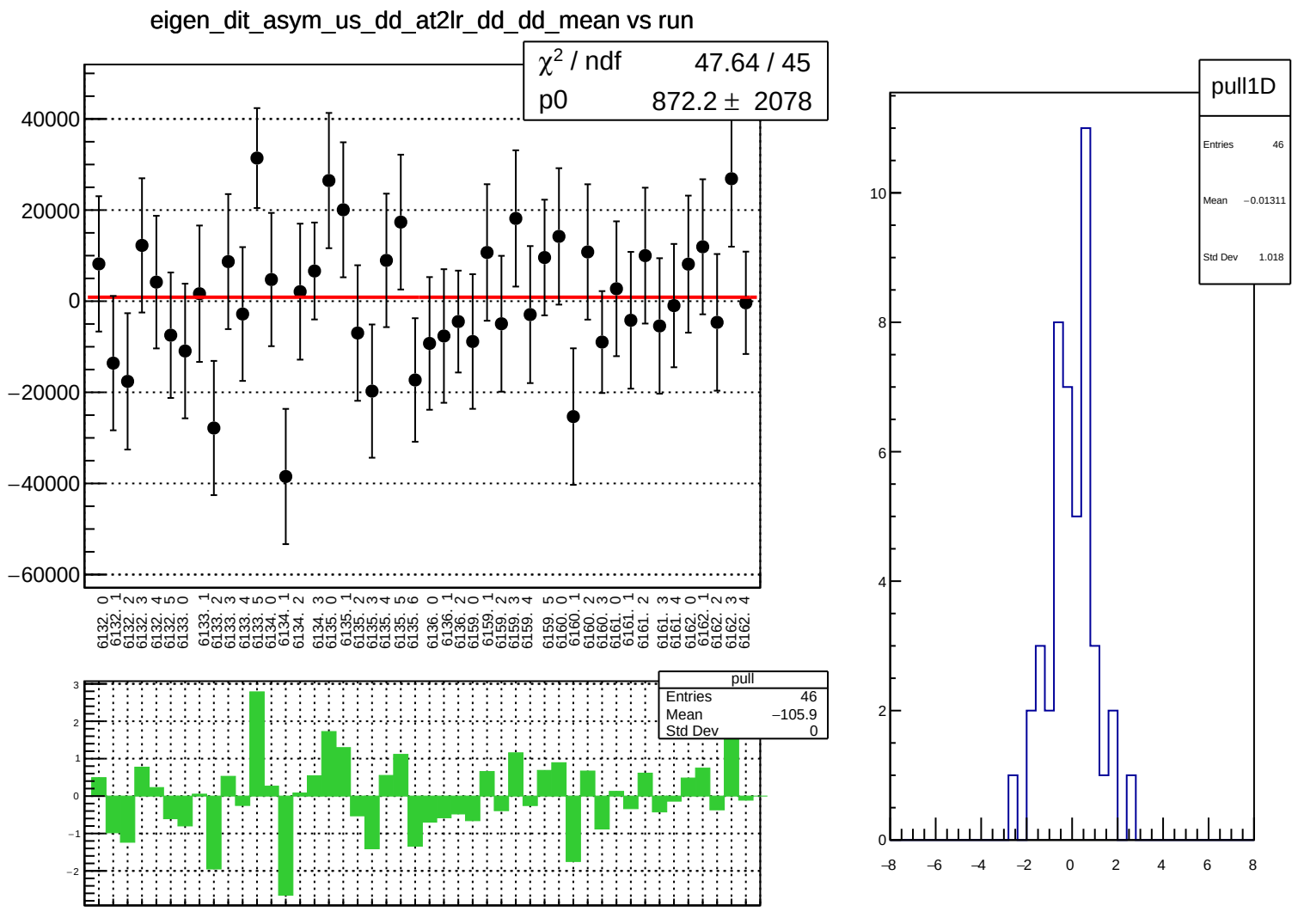
eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 47.64 / 45
p0 872.2 ± 2078
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−20000
−40000
−60000
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6132. 2
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6133. 2
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pull
Entries 46
Mean −105.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.01311
Std Dev 1.018
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8
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−6
−4
−2
0
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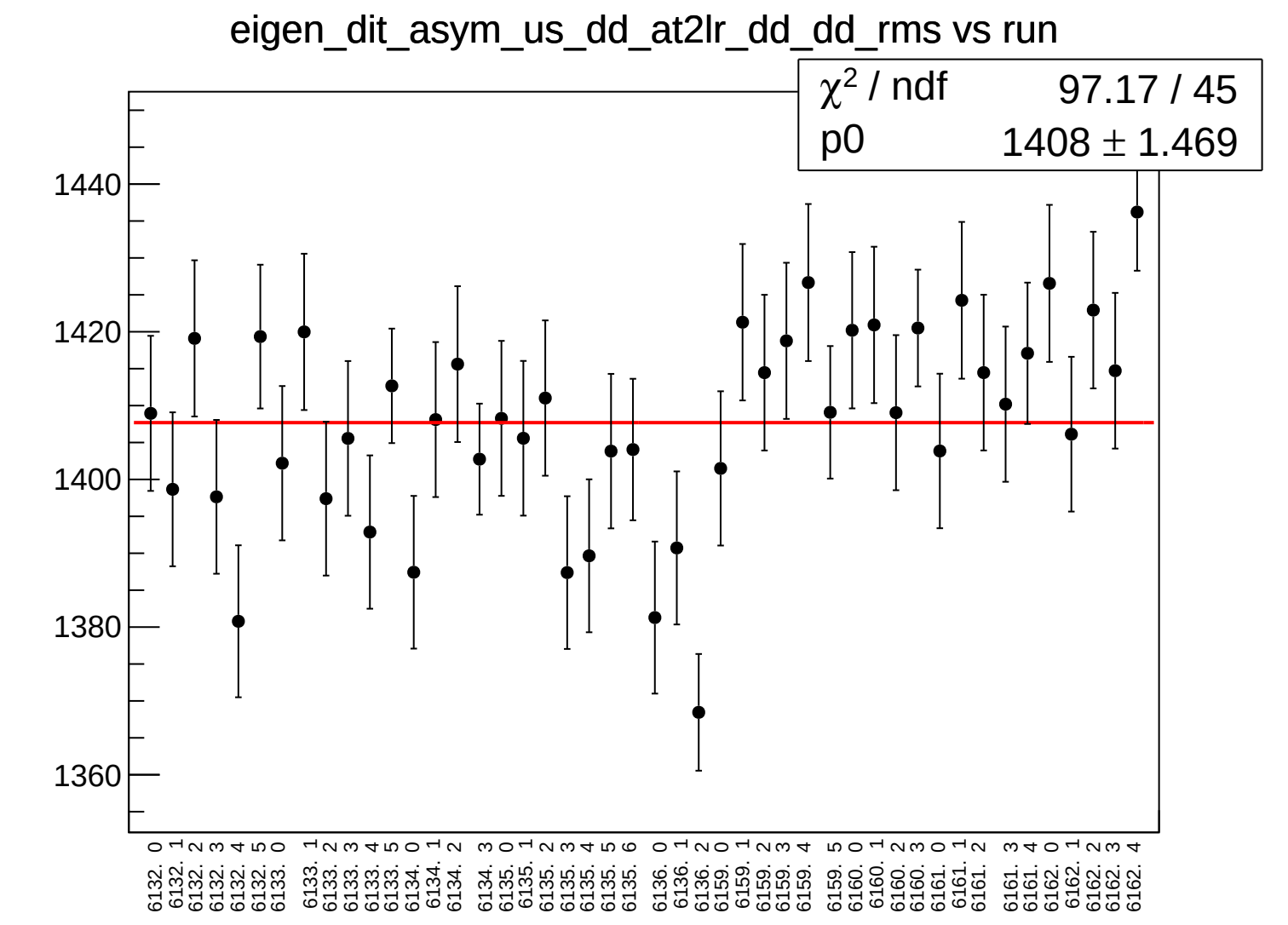
eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 97.17 / 45
p0 1408 ± 1.469
1440
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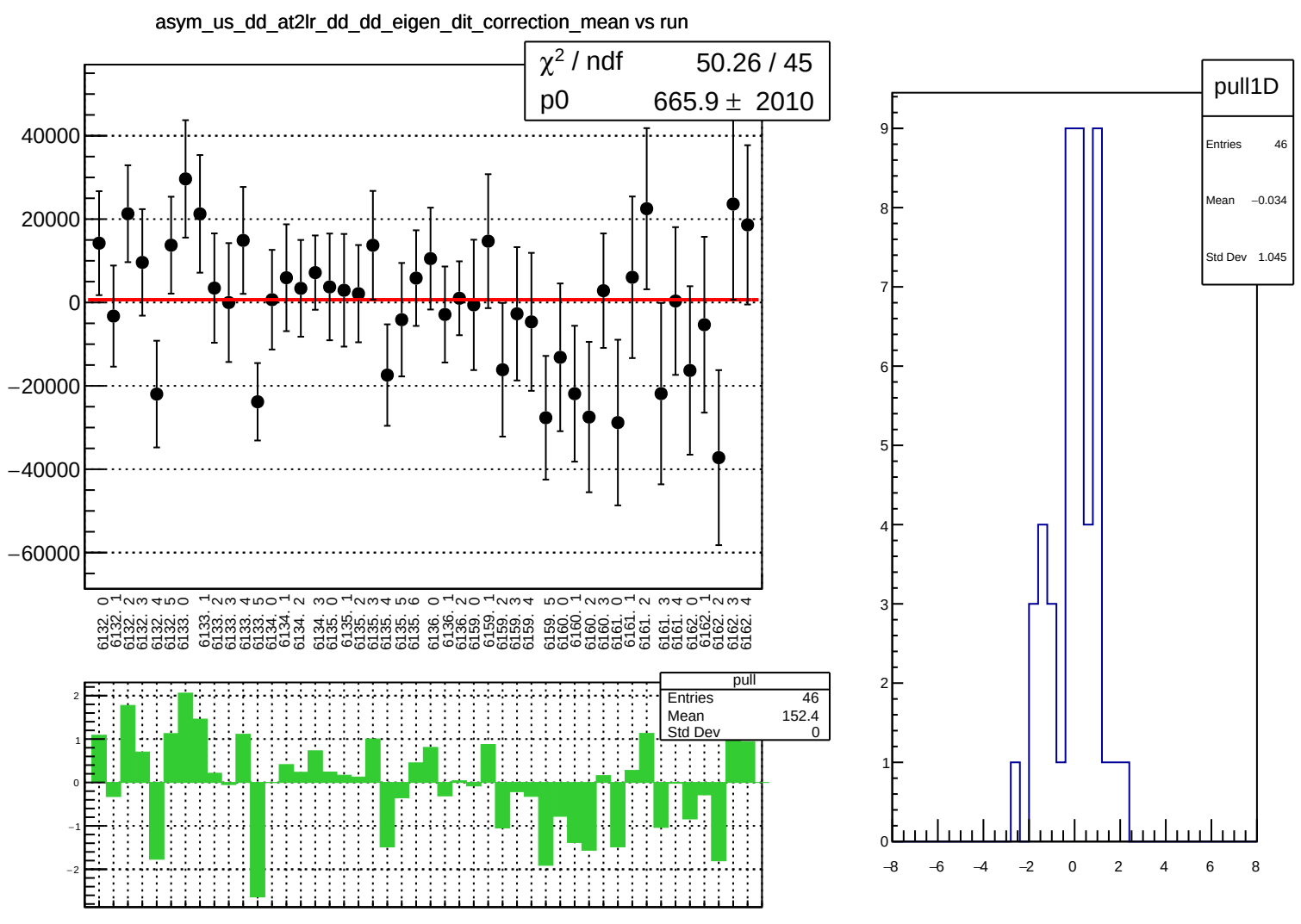
asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 50.26 / 45
p0 665.9 ± 2010
40000
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6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 152.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.034
Std Dev 1.045
9
8
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−4
−2
0
2
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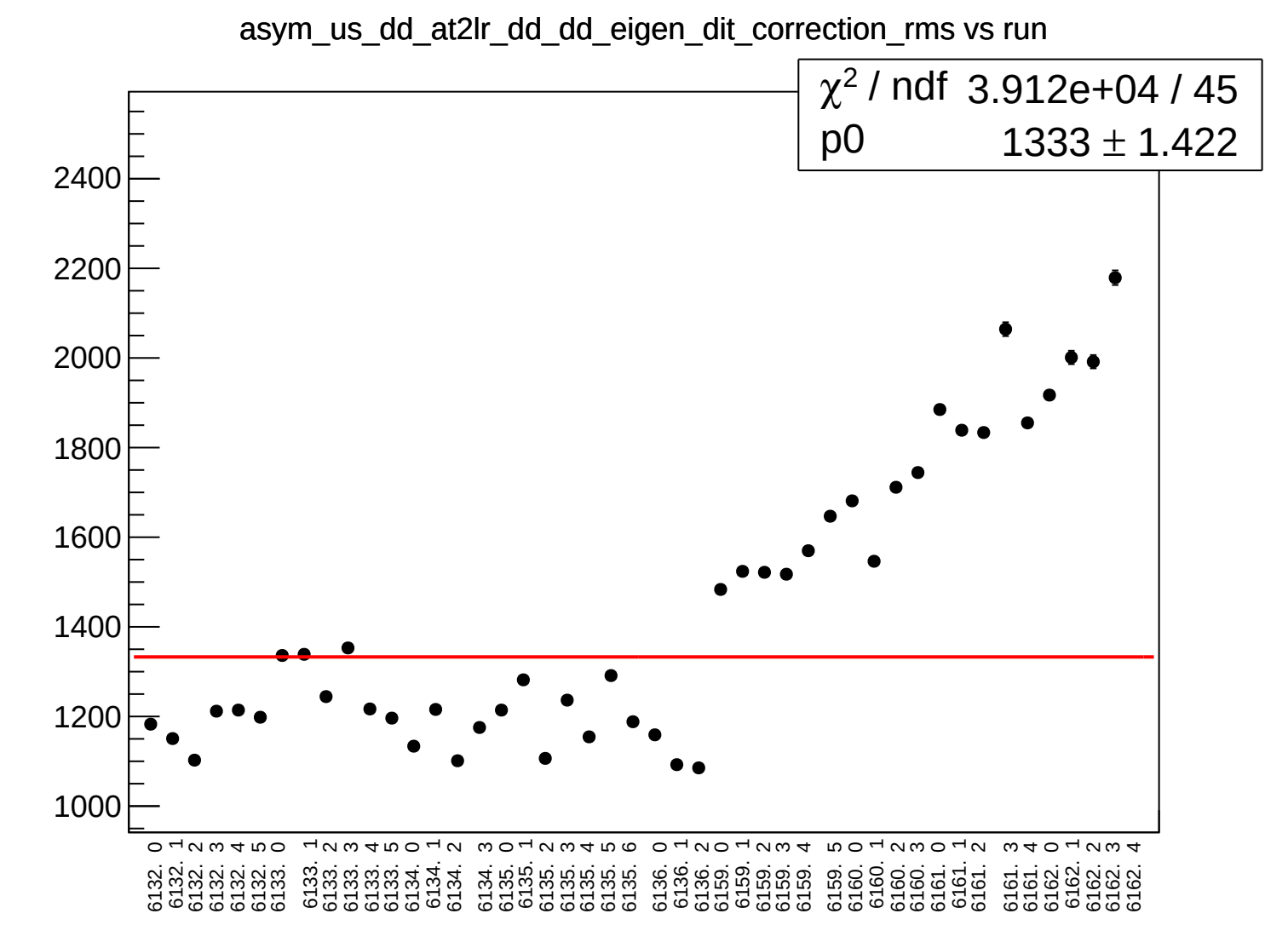
asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.912e+04 / 45
p0 1333 ± 1.422
2400
2200
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1800
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1400
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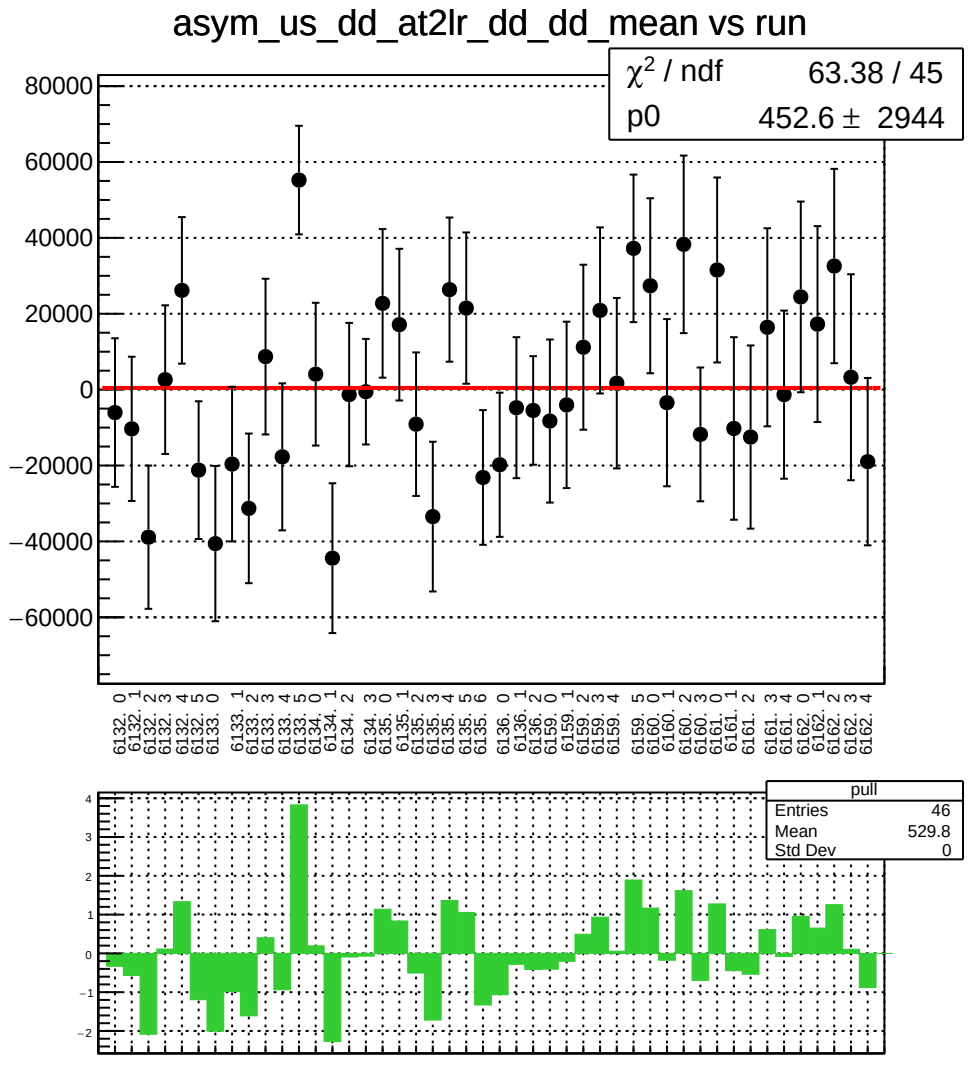
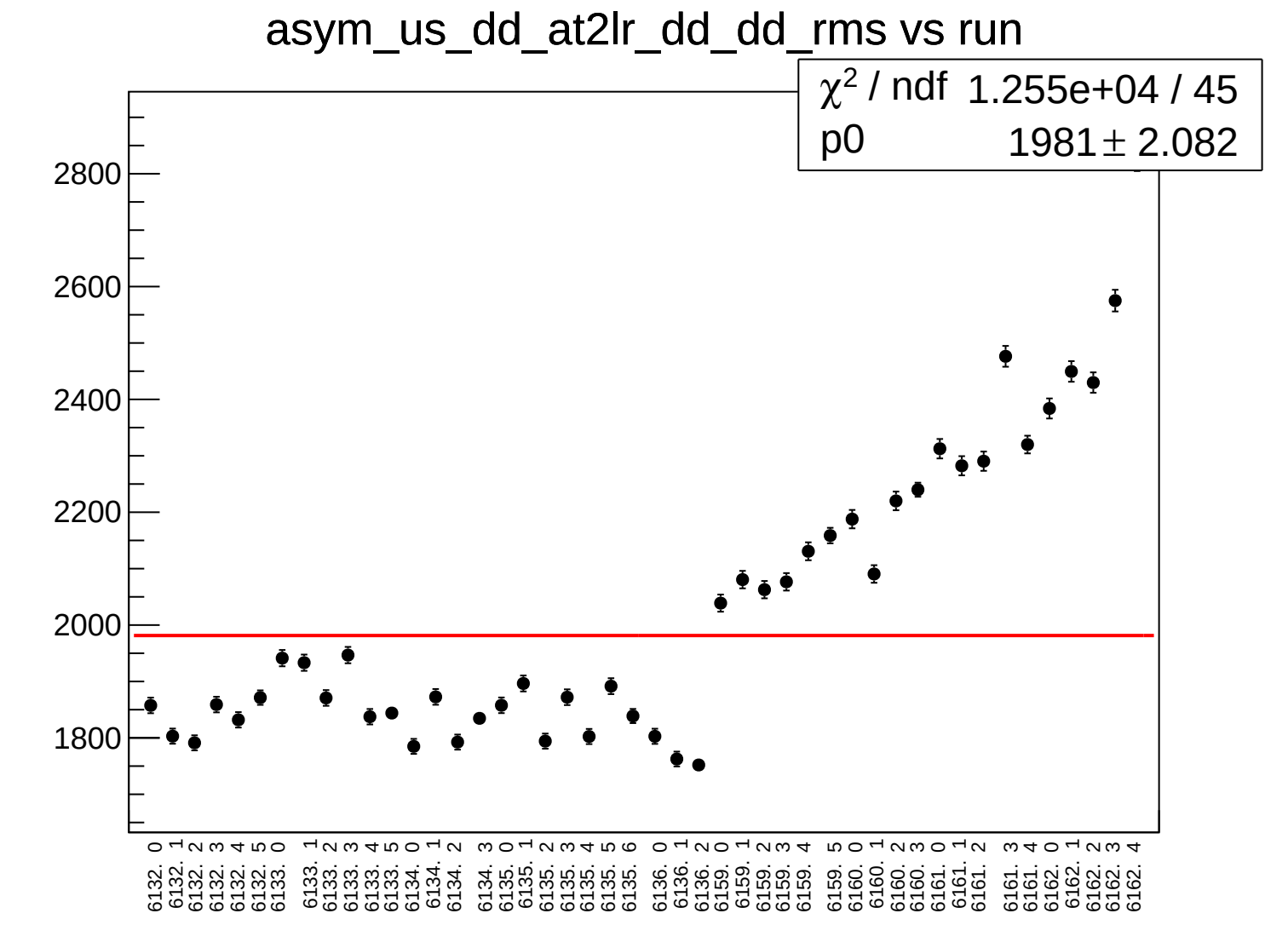
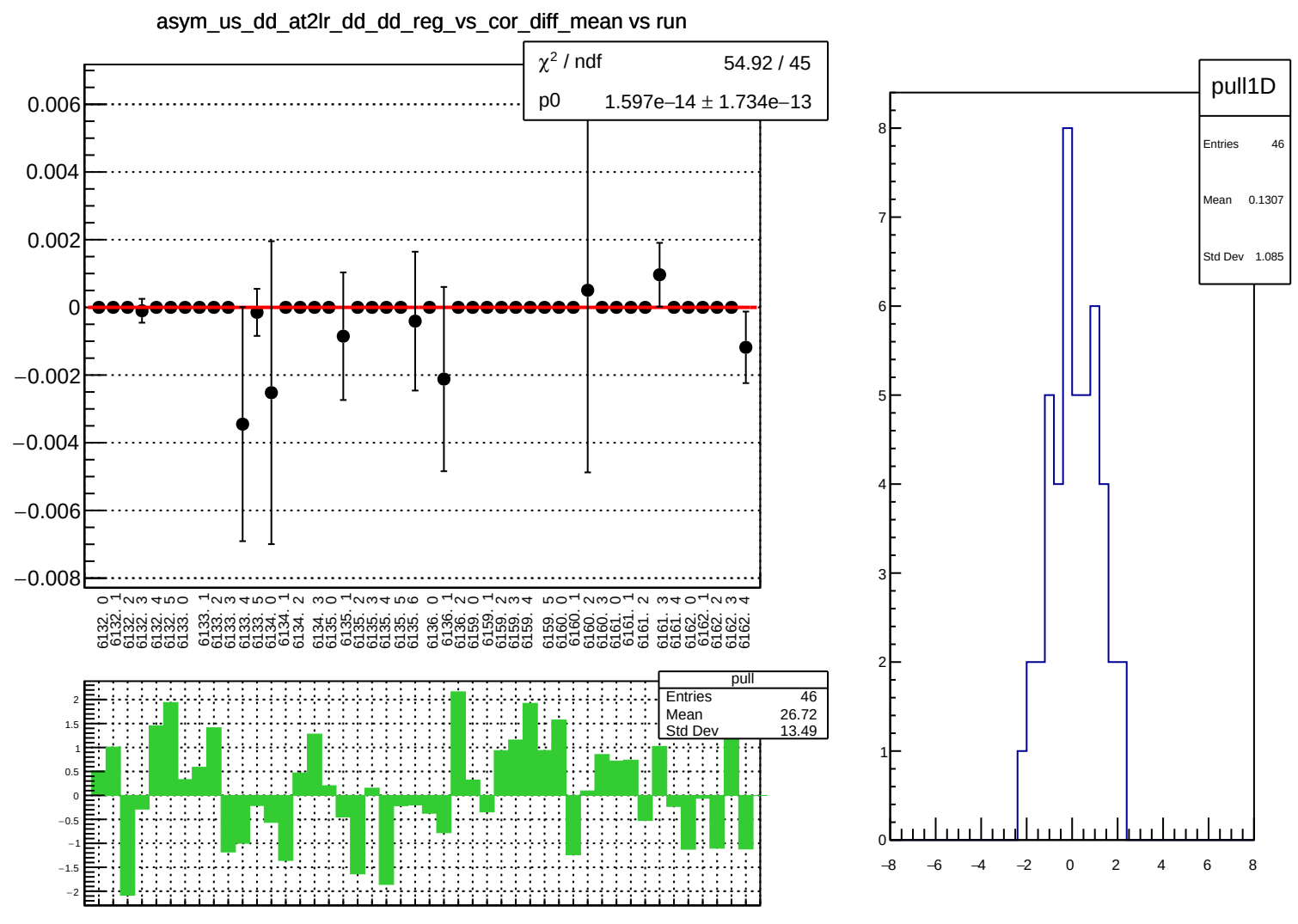
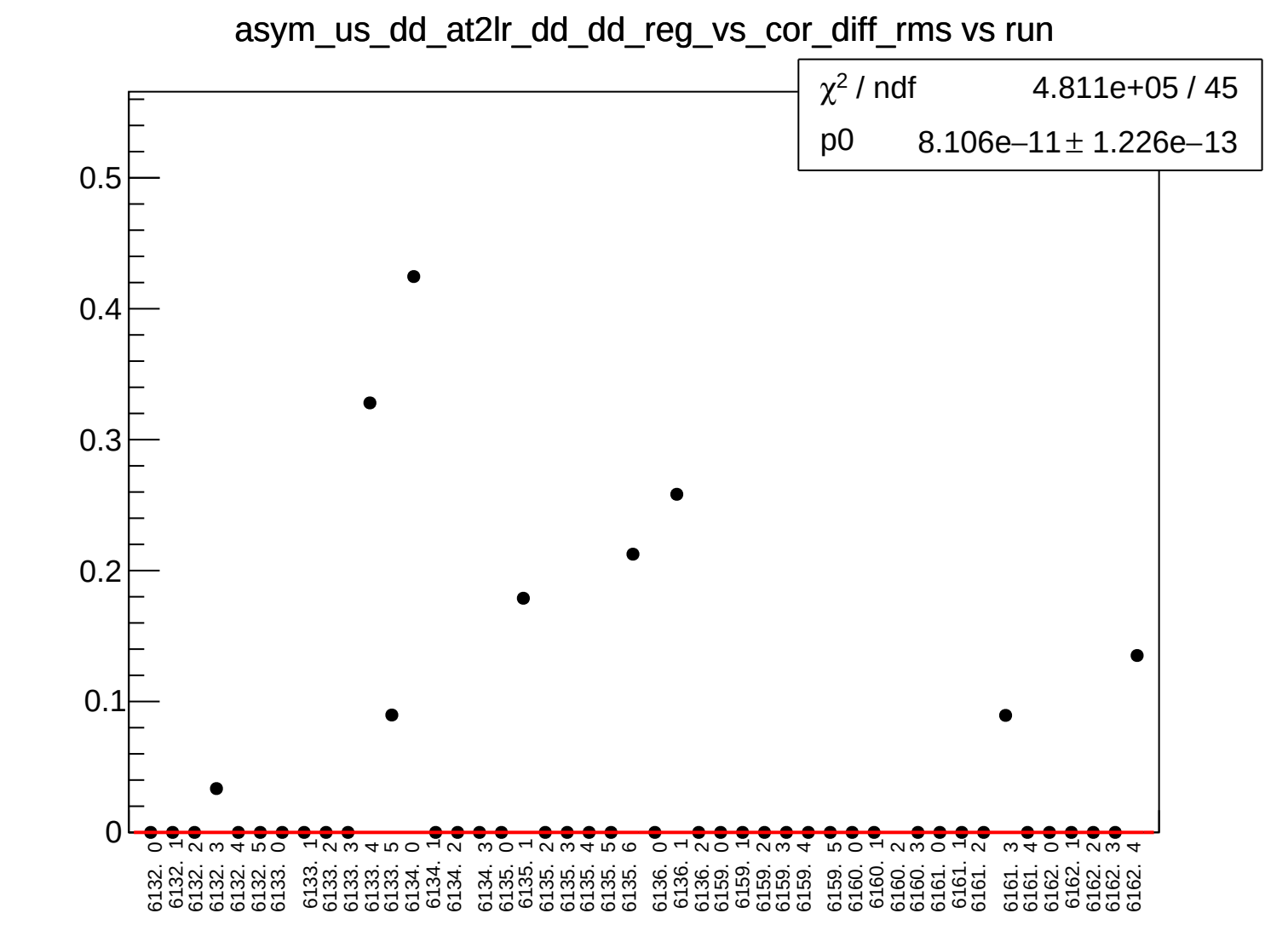
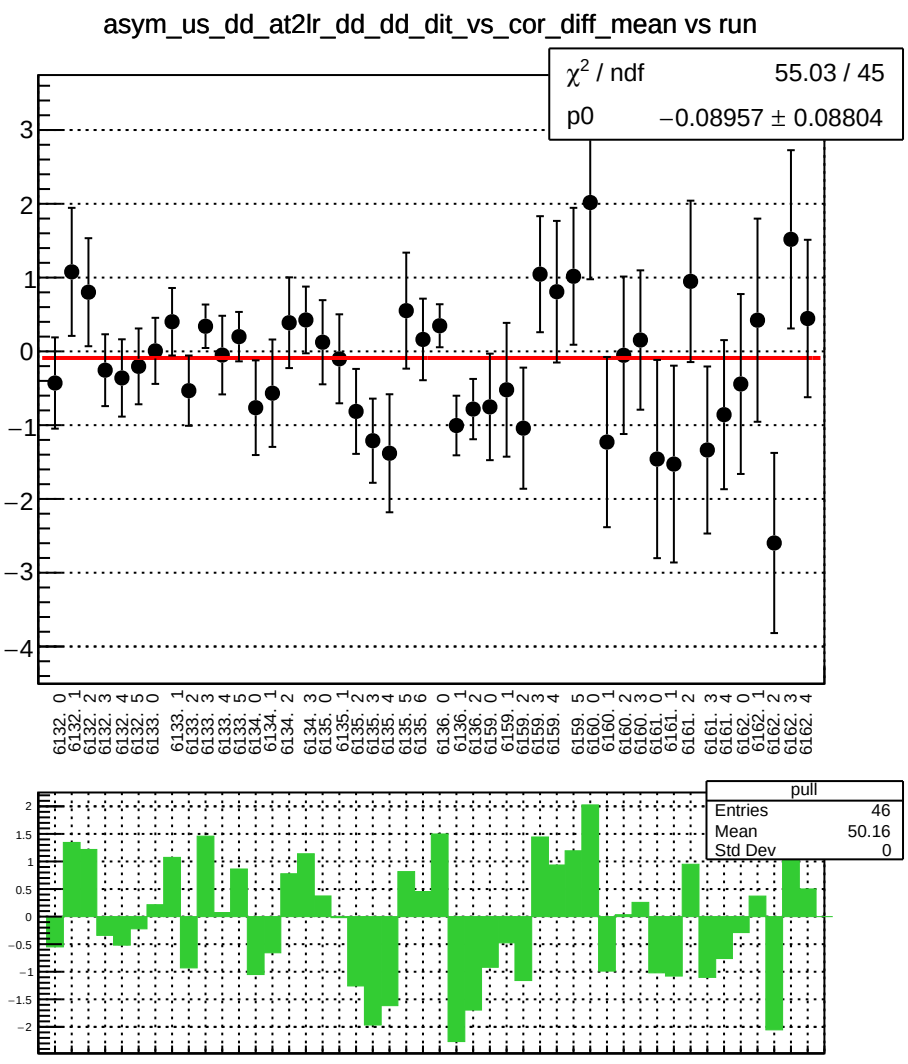
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

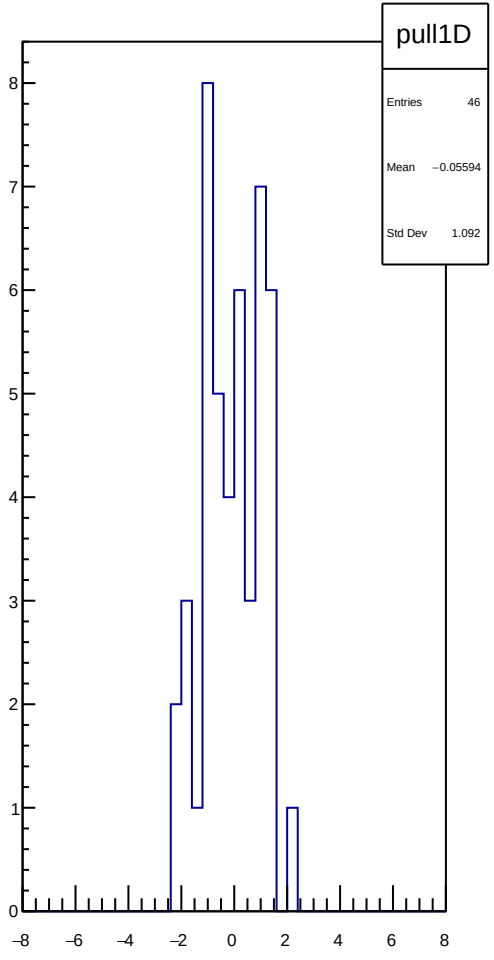

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 63.38 / 45
p0 452.6 ± 2944
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 529.8
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.00828
Std Dev 1.174
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

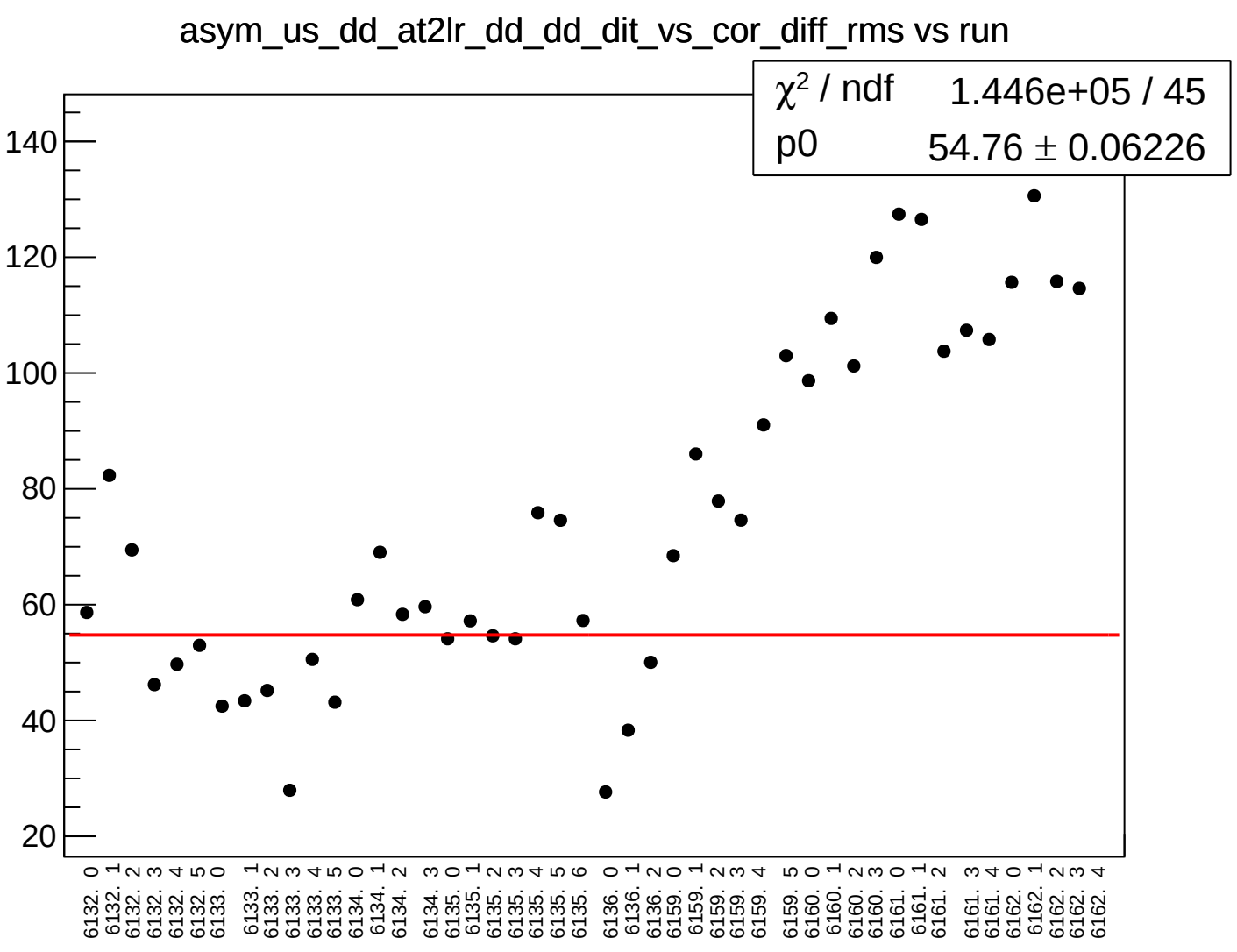

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1.255e+04 / 45
p0 1981 ± 2.082
2800
2600
2400
2200
2000
1800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

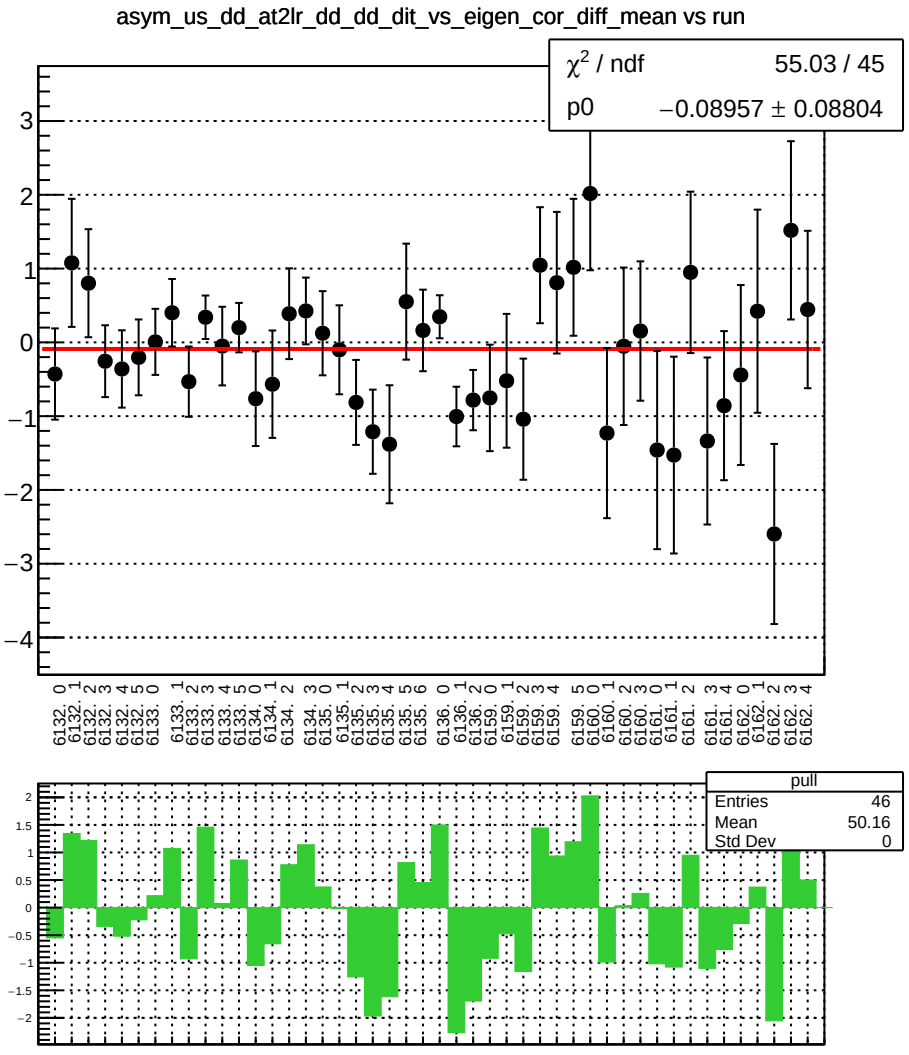

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 54.92 / 45
p0 1.597e−14 ± 1.734e−13
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 26.72
Std Dev 13.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.1307
Std Dev 1.085
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

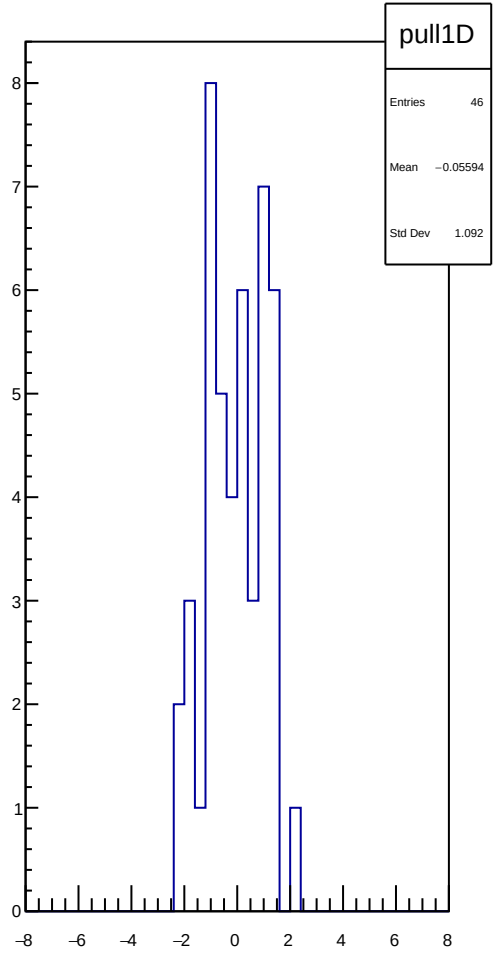

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.811e+05 / 45
p0 8.106e−11 ± 1.226e−13
0.5
0.4
0.3
0.2
0.1
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

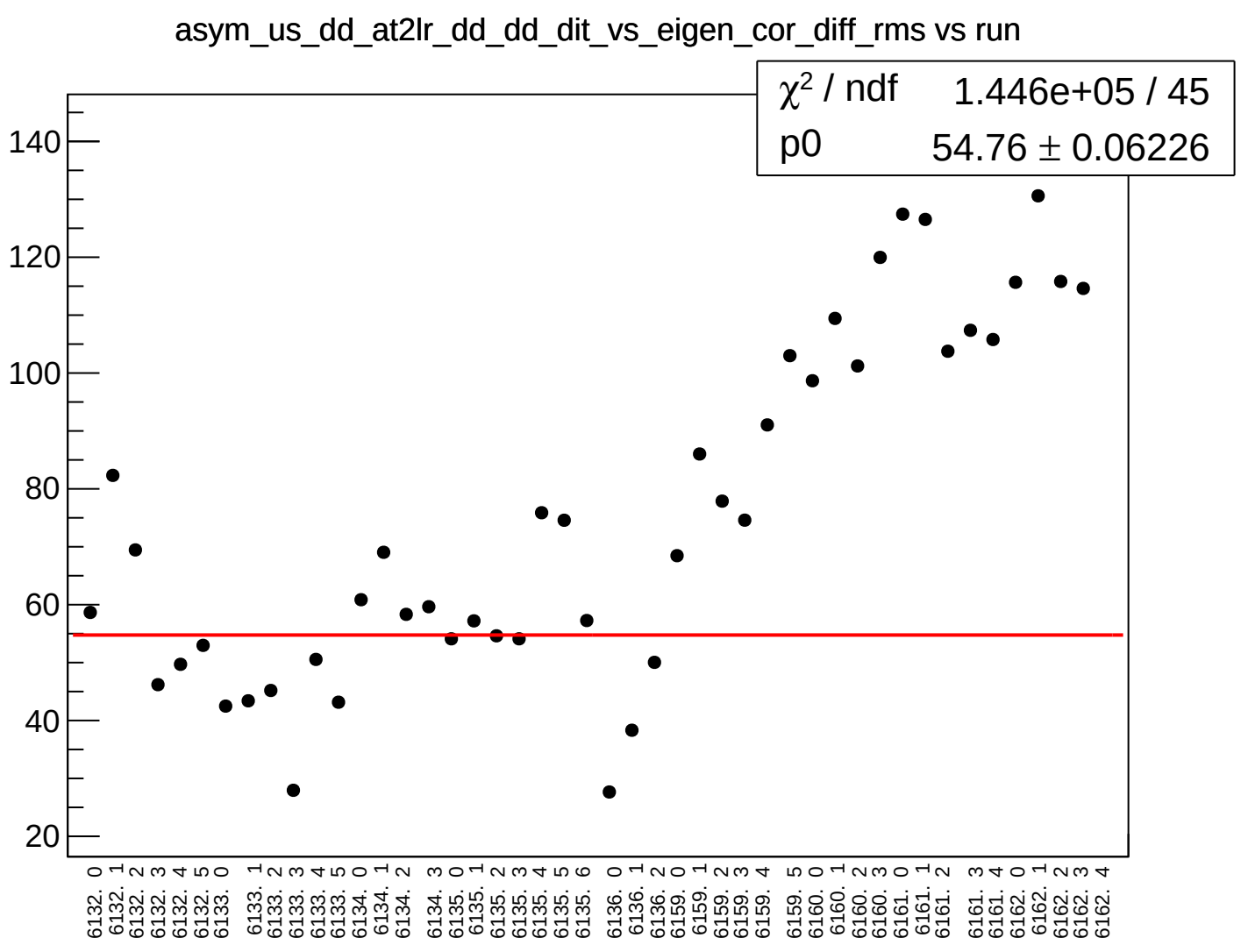

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 55.03 / 45
p0 −0.08957 ± 0.08804
pull
Entries 46
Mean 50.16
Std Dev 0

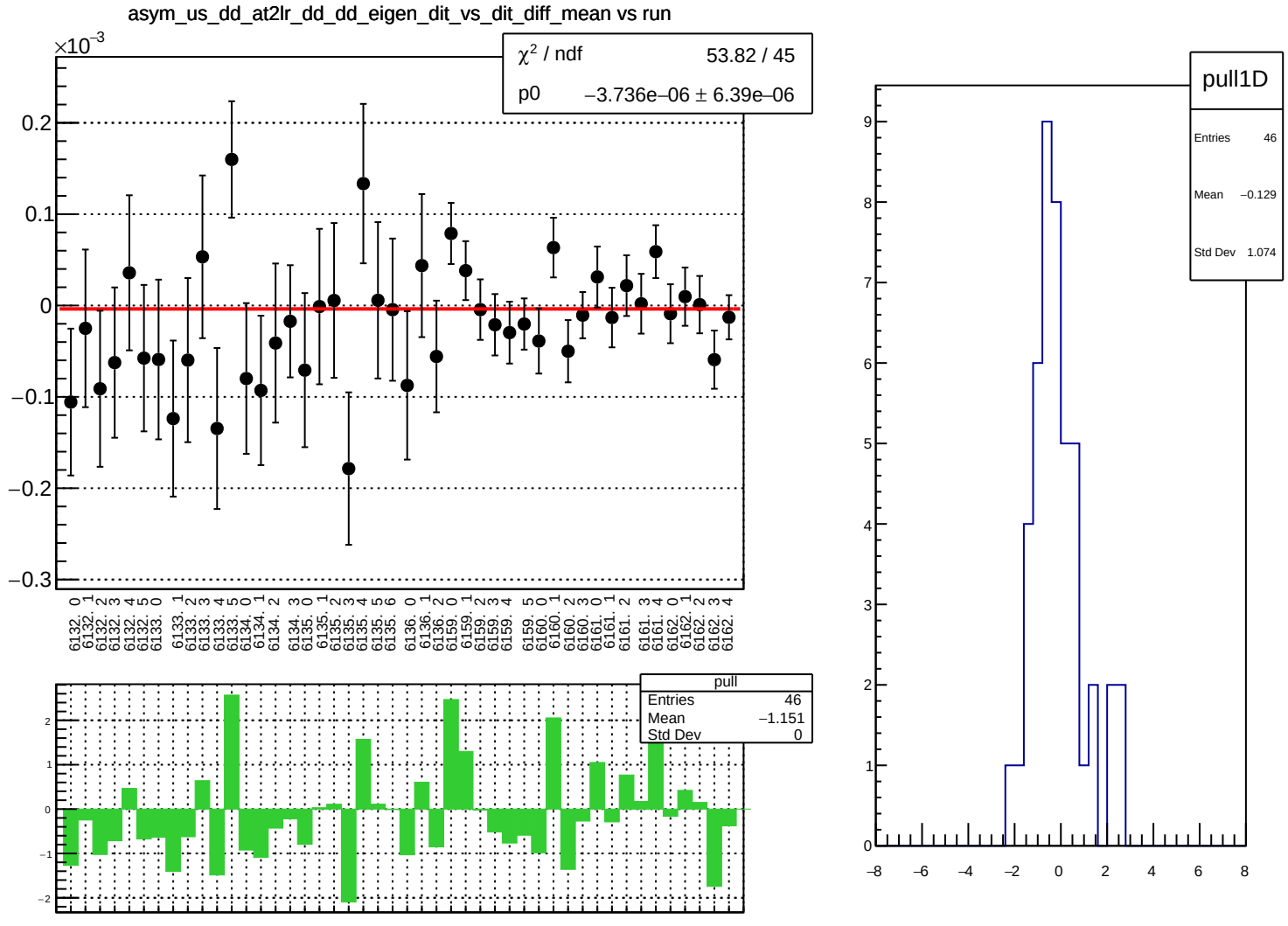

pull1D
Entries 46
Mean −0.05594
Std Dev 1.092

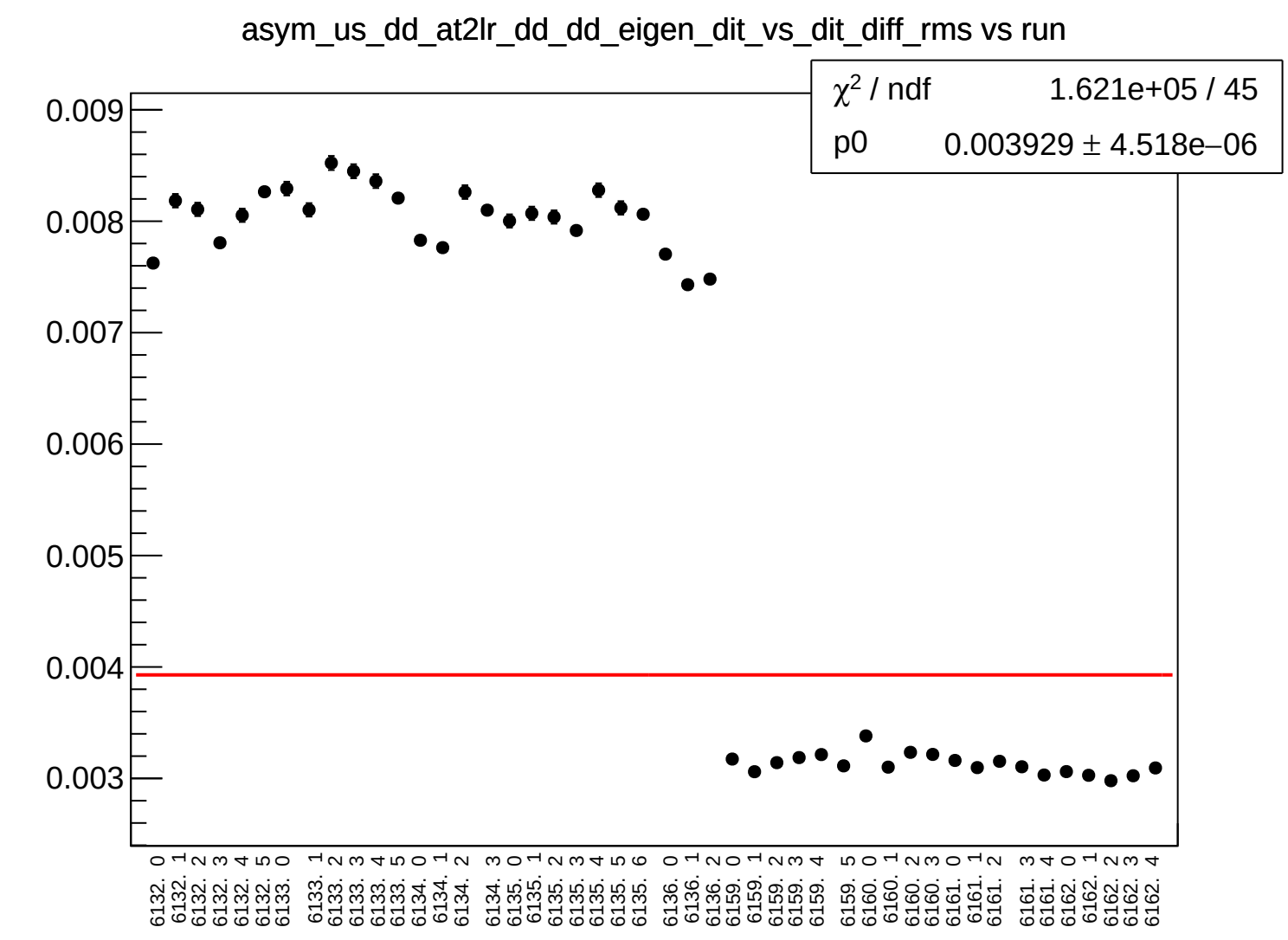

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.446e+05 / 45
p0 54.76 ± 0.06226
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

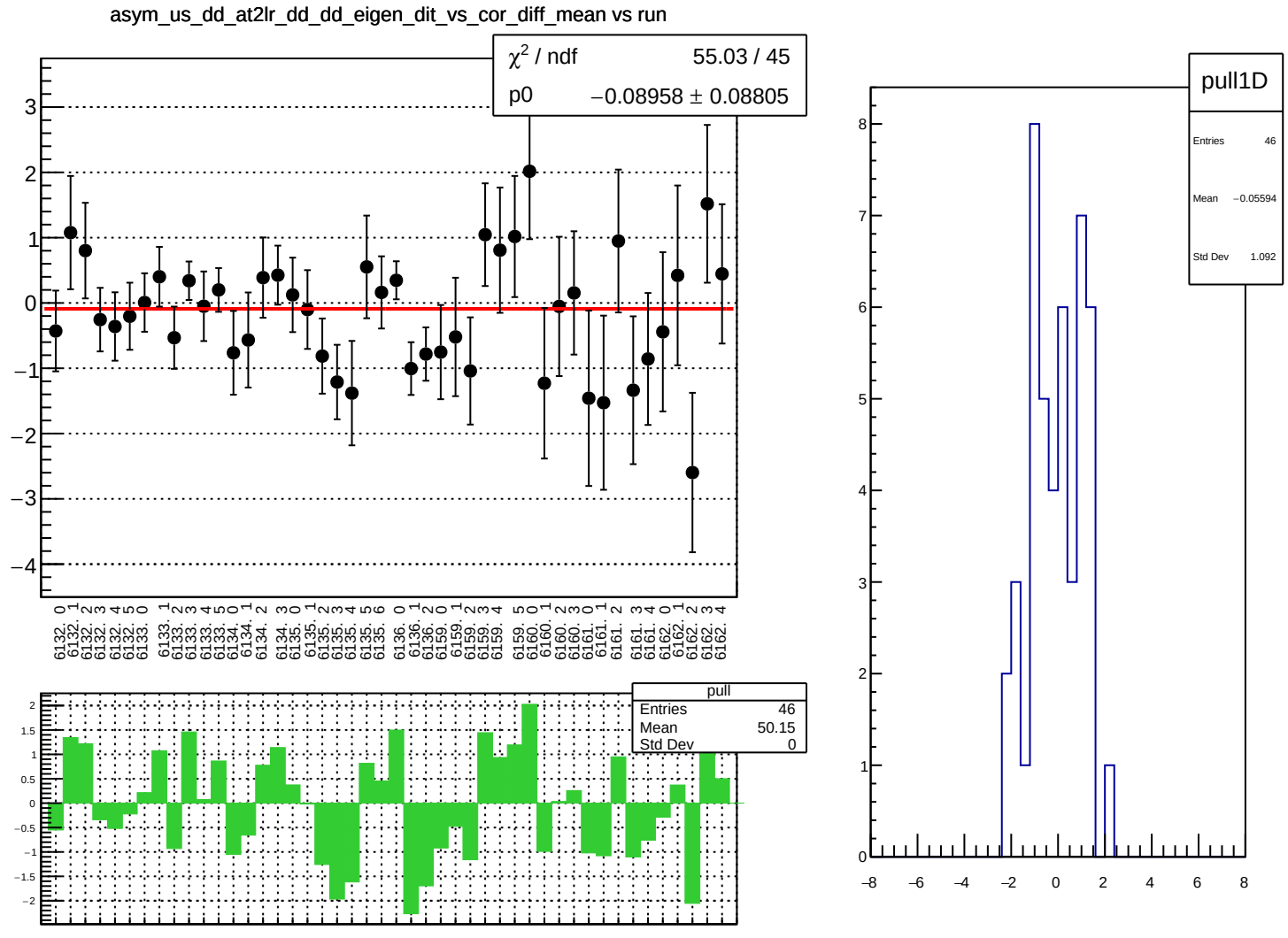

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 55.03 / 45
p0 −0.08957 ± 0.08804
pull
Entries 46
Mean 50.16
Std Dev 0

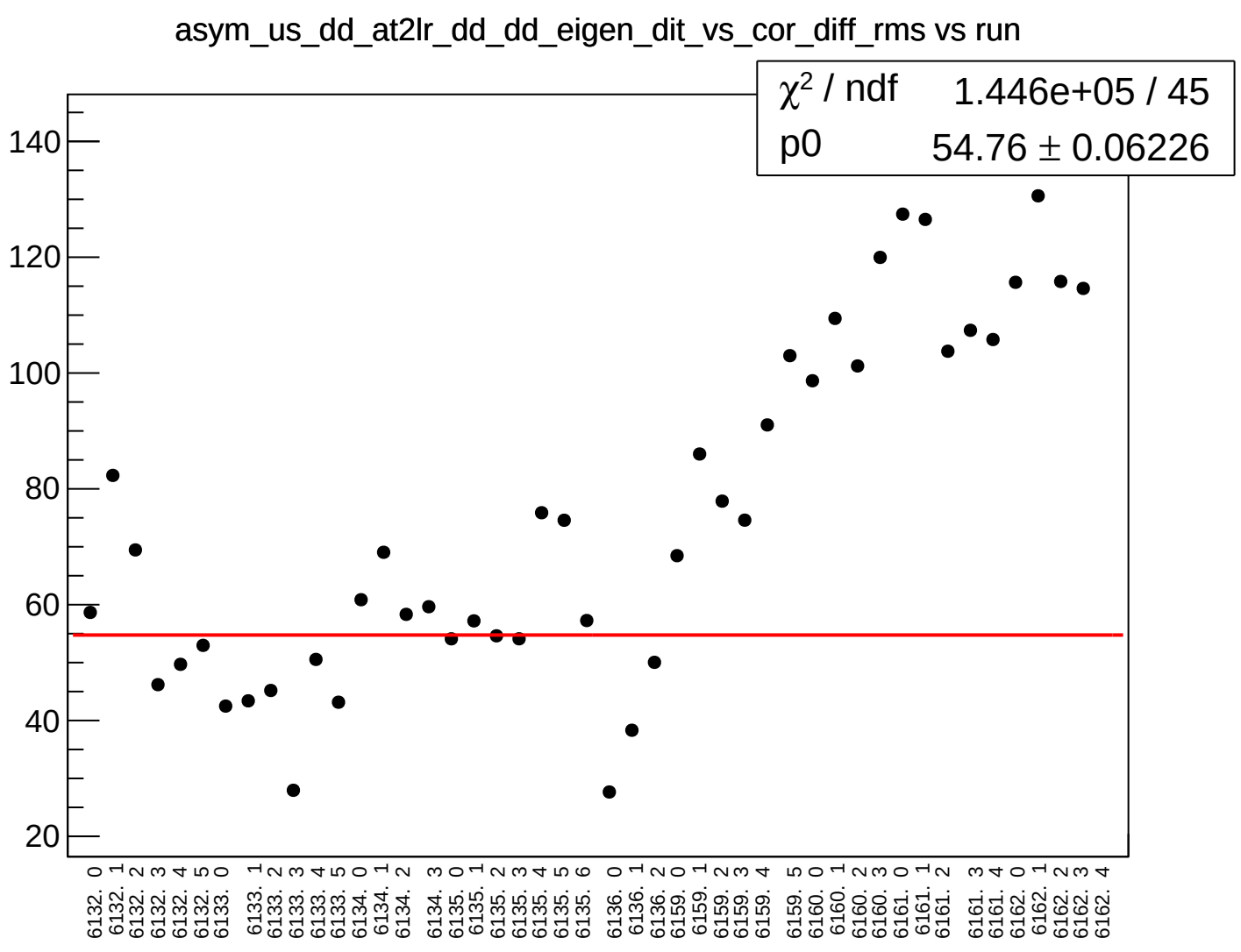

pull1D
Entries 46
Mean −0.05594
Std Dev 1.092

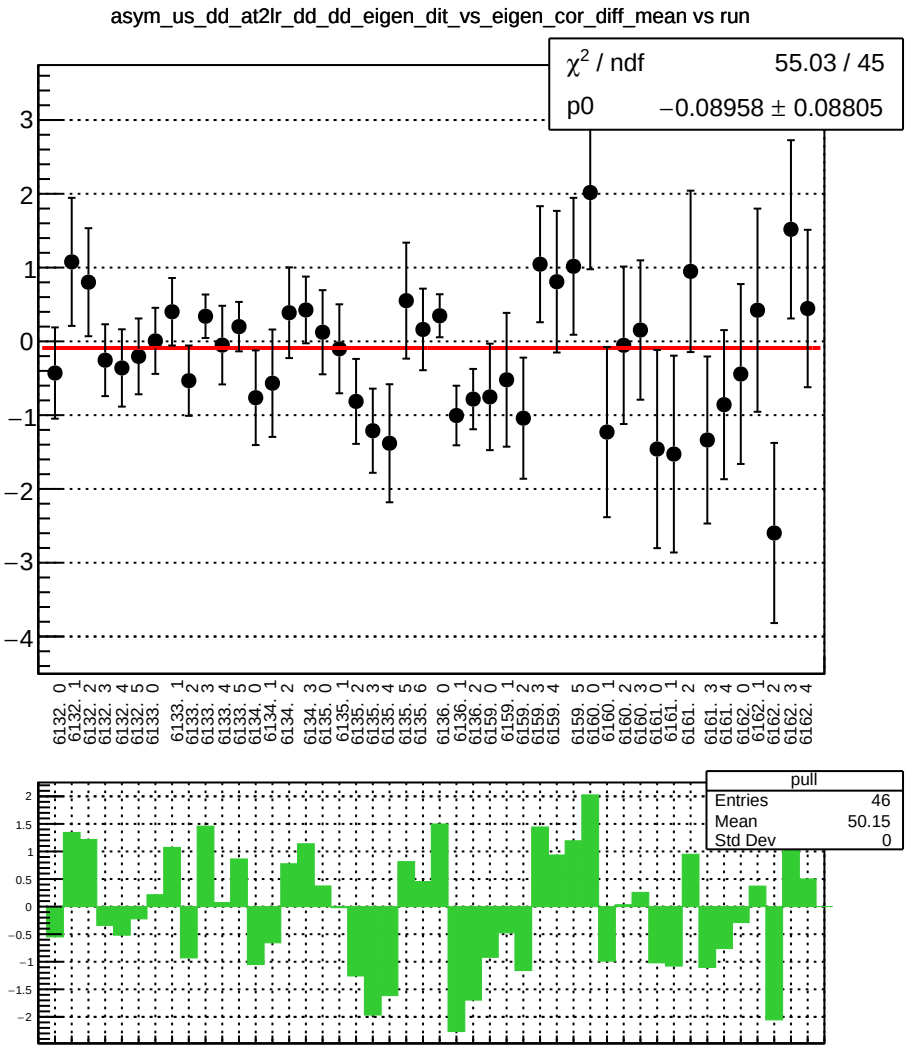

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.446e+05 / 45
p0 54.76 ± 0.06226
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

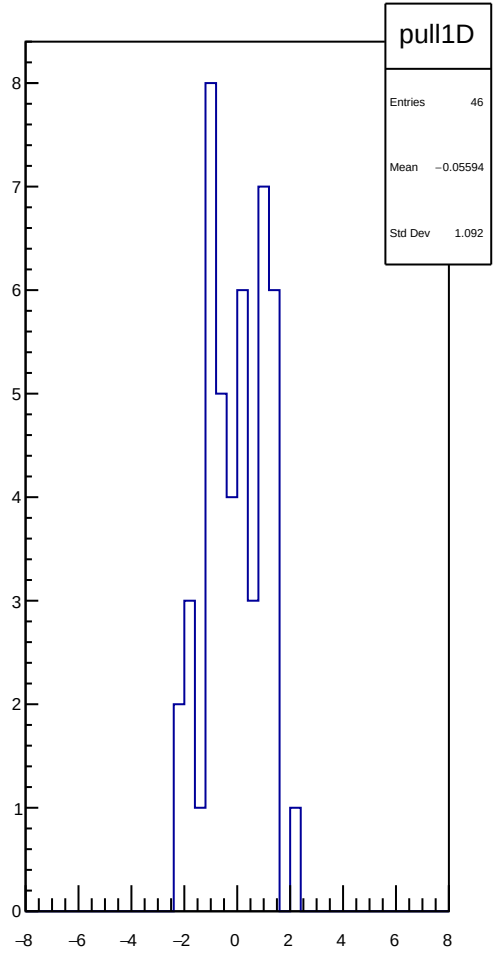

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 53.82 / 45
p0 −3.736e−06 ± 6.39e−06
pull
Entries 46
Mean −1.151
Std Dev 0
pull1D
Entries 46
Mean −0.129
Std Dev 1.074

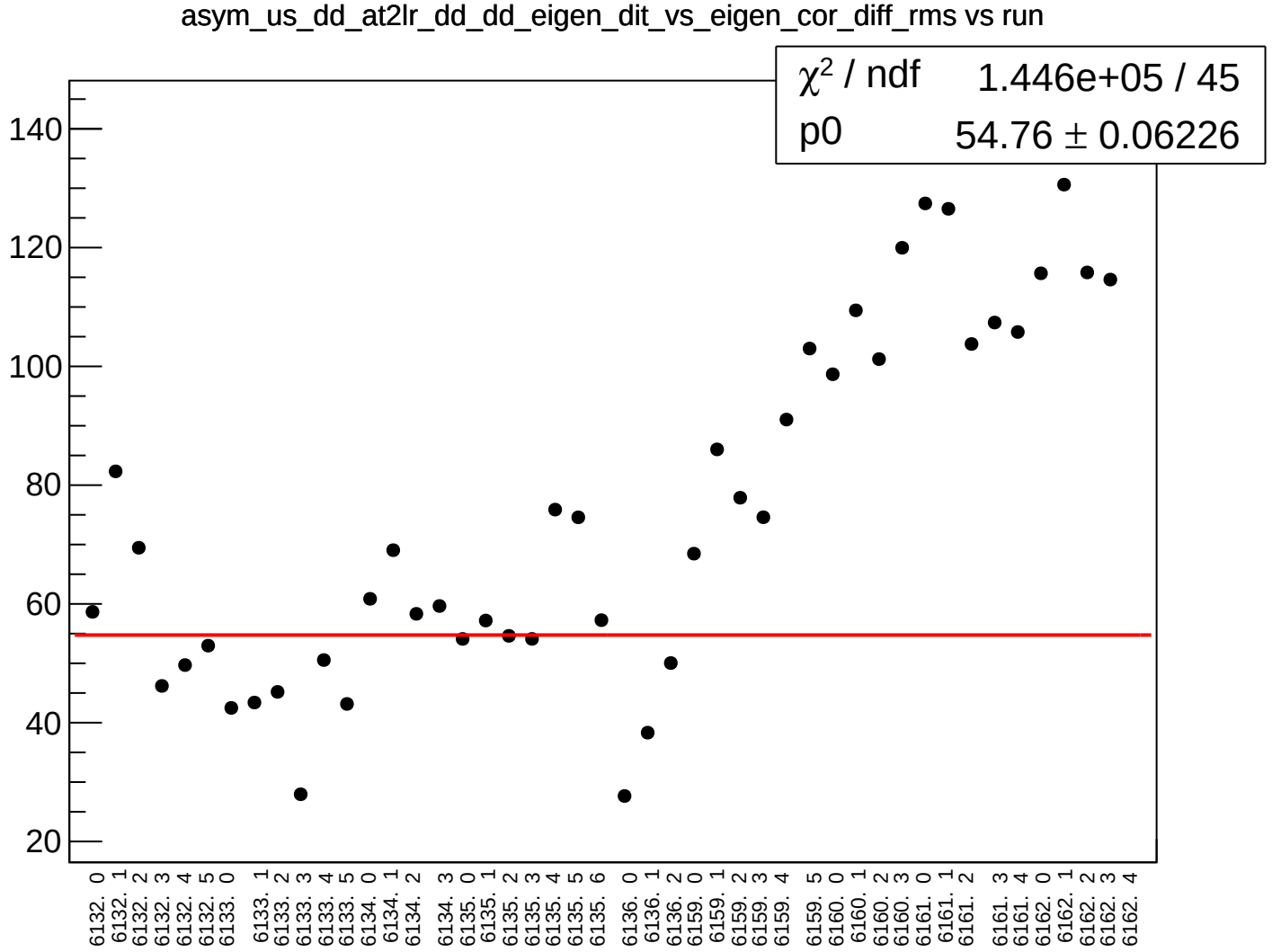

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.621e+05 / 45
p0 0.003929 ± 4.518e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

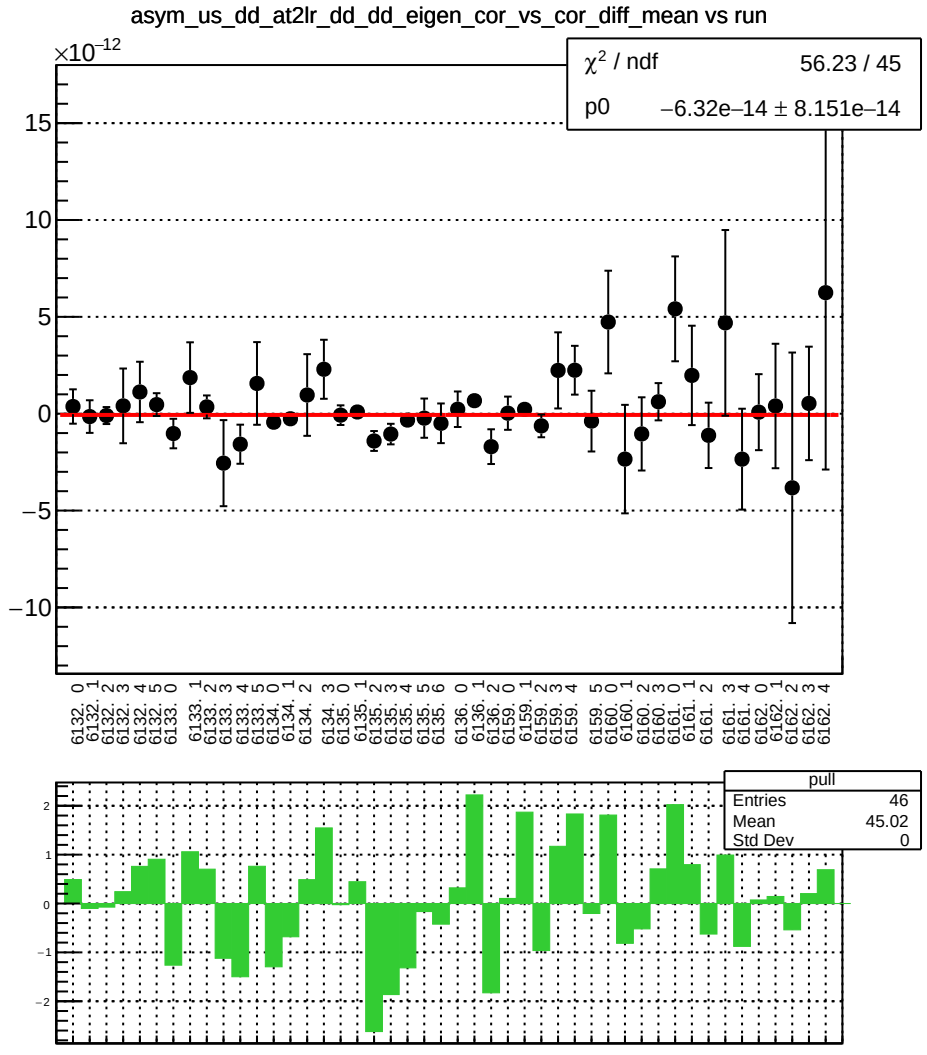

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 55.03 / 45
p0 −0.08958 ± 0.08805
pull
Entries 46
Mean 50.15
Std Dev 0
pull1D
Entries 46
Mean −0.05594
Std Dev 1.092

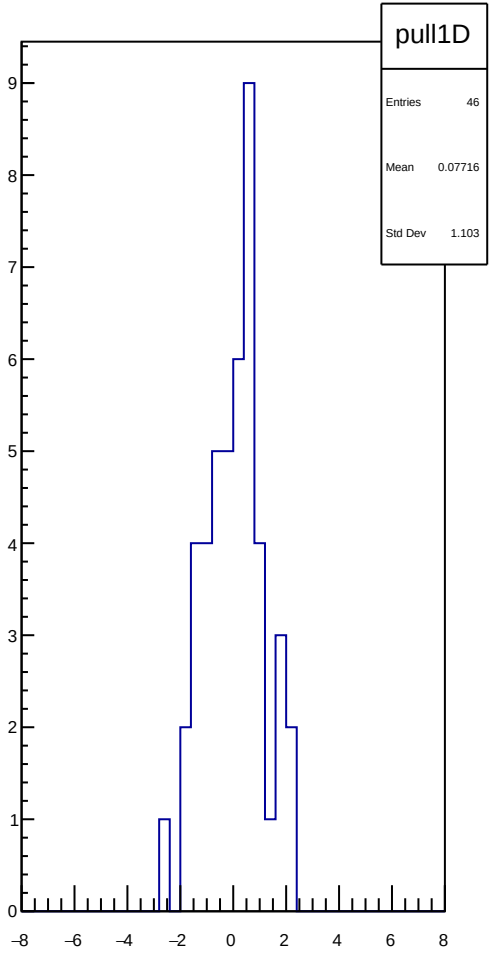

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.446e+05 / 45
p0 54.76 ± 0.06226
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

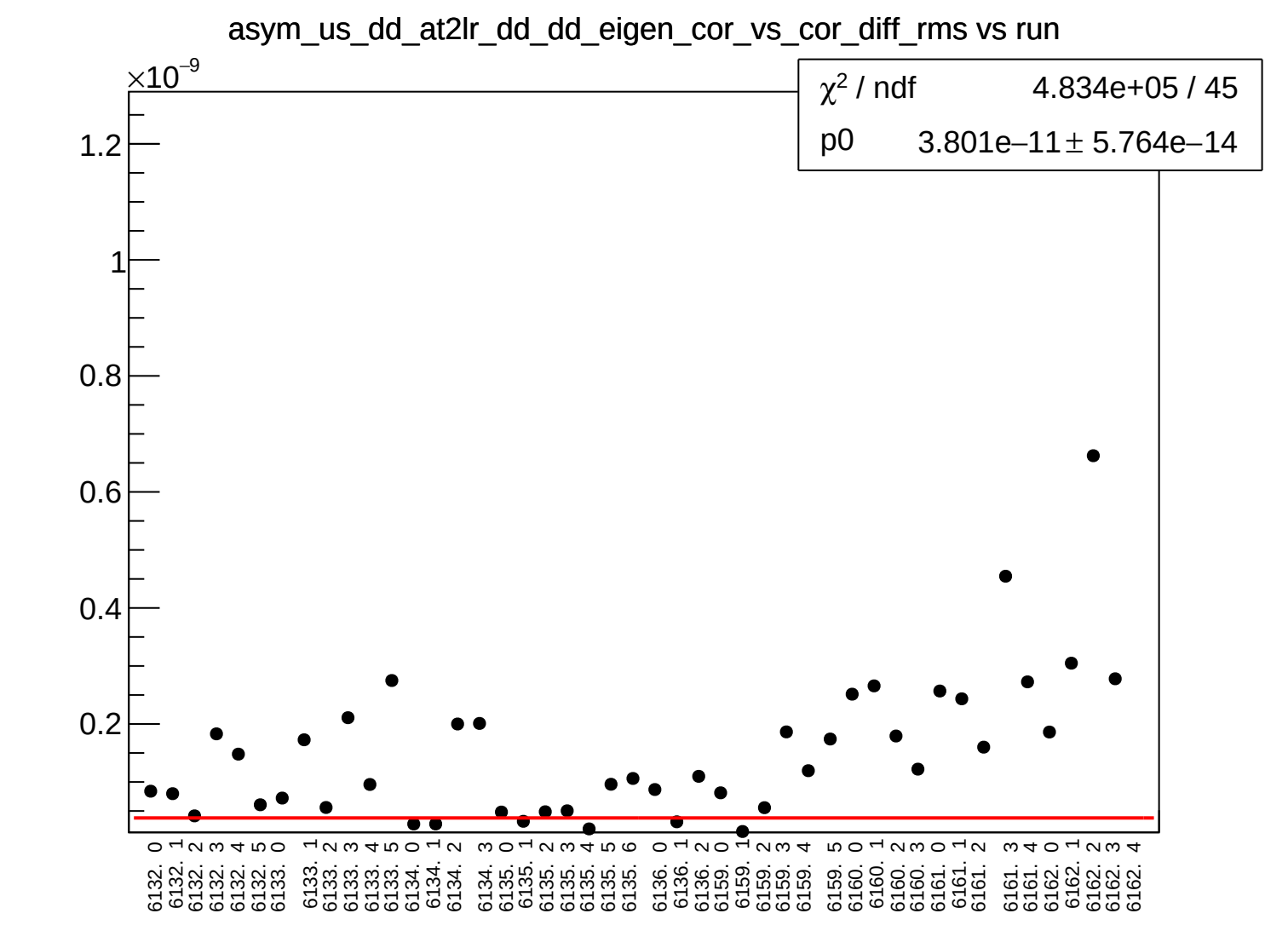

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 55.03 / 45
p0 −0.08958 ± 0.08805
pull
Entries 46
Mean 50.15
Std Dev 0

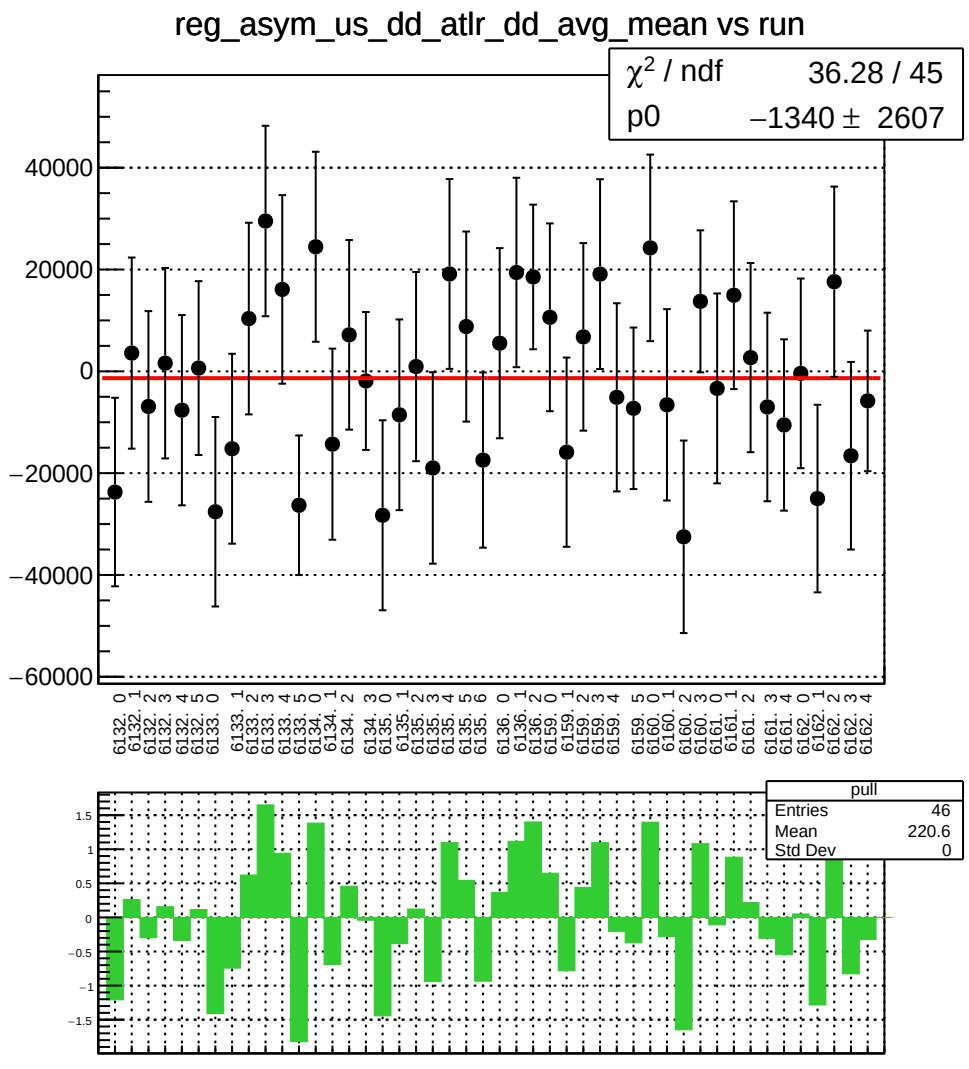

pull1D
Entries 46
Mean −0.05594
Std Dev 1.092


asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.446e+05 / 45
p0 54.76 ± 0.06226
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 56.23 / 45
p0 −6.32e−14 ± 8.151e−14
15
10
5
0
−5
−10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 45.02
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.07716
Std Dev 1.103
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.834e+05 / 45
p0 3.801e−11 ± 5.764e−14
1.2
1
0.8
0.6
0.4
0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 36.28 / 45
p0 −1340 ± 2607
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
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6161. 3
6161. 4
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6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 220.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.00293
Std Dev 0.8881
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−8
−6
−4
−2
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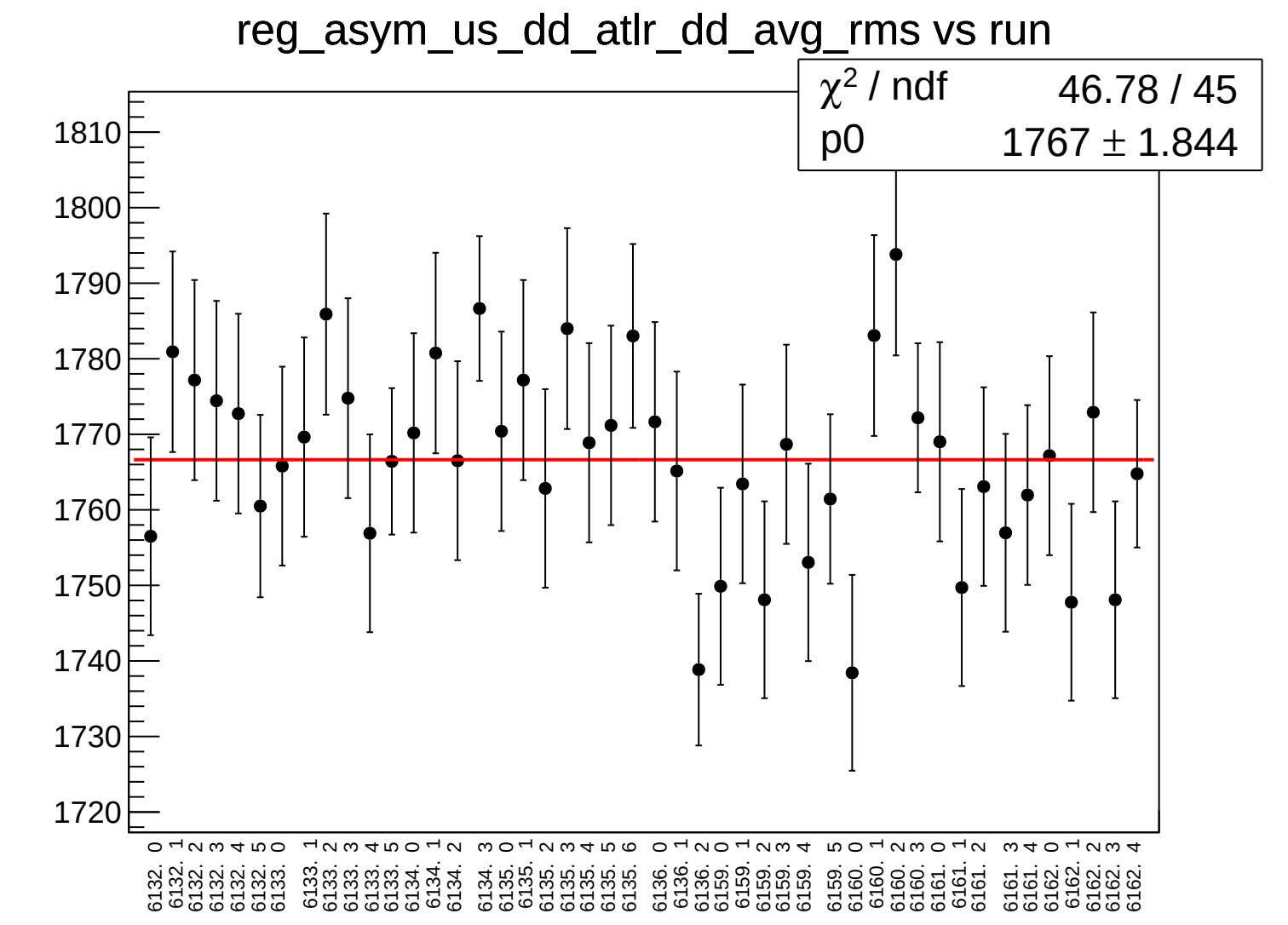
reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 46.78 / 45
p0 1767 ± 1.844
1810
1800
1790
1780
1770
1760
1750
1740
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1720
6132. 0
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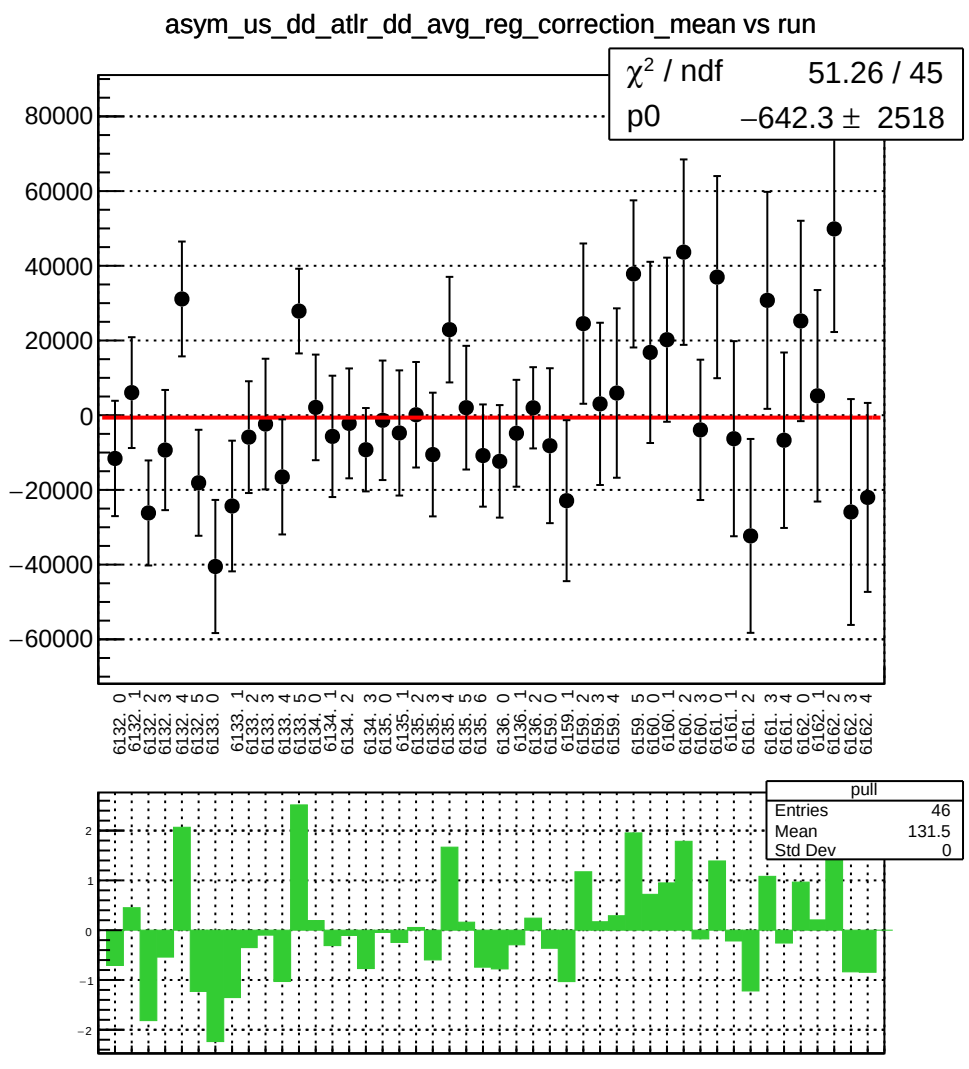
asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 51.26 / 45
p0 −642.3 ± 2518
80000
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40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6135. 6
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6160. 2
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6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 131.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.03614
Std Dev 1.055
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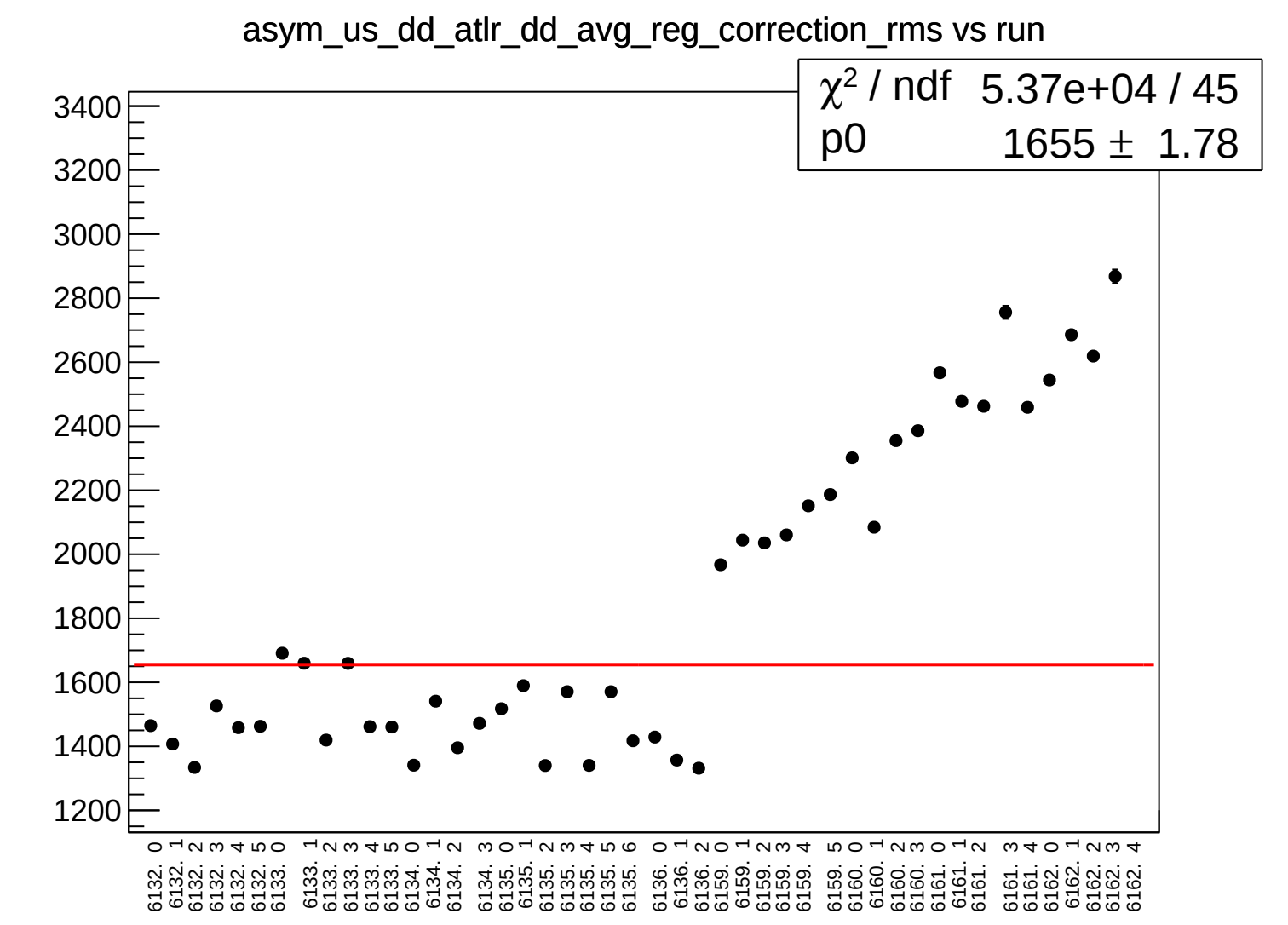
8


asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 5.37e+04 / 45
p0 1655 ± 1.78
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
6132. 0
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6132. 2
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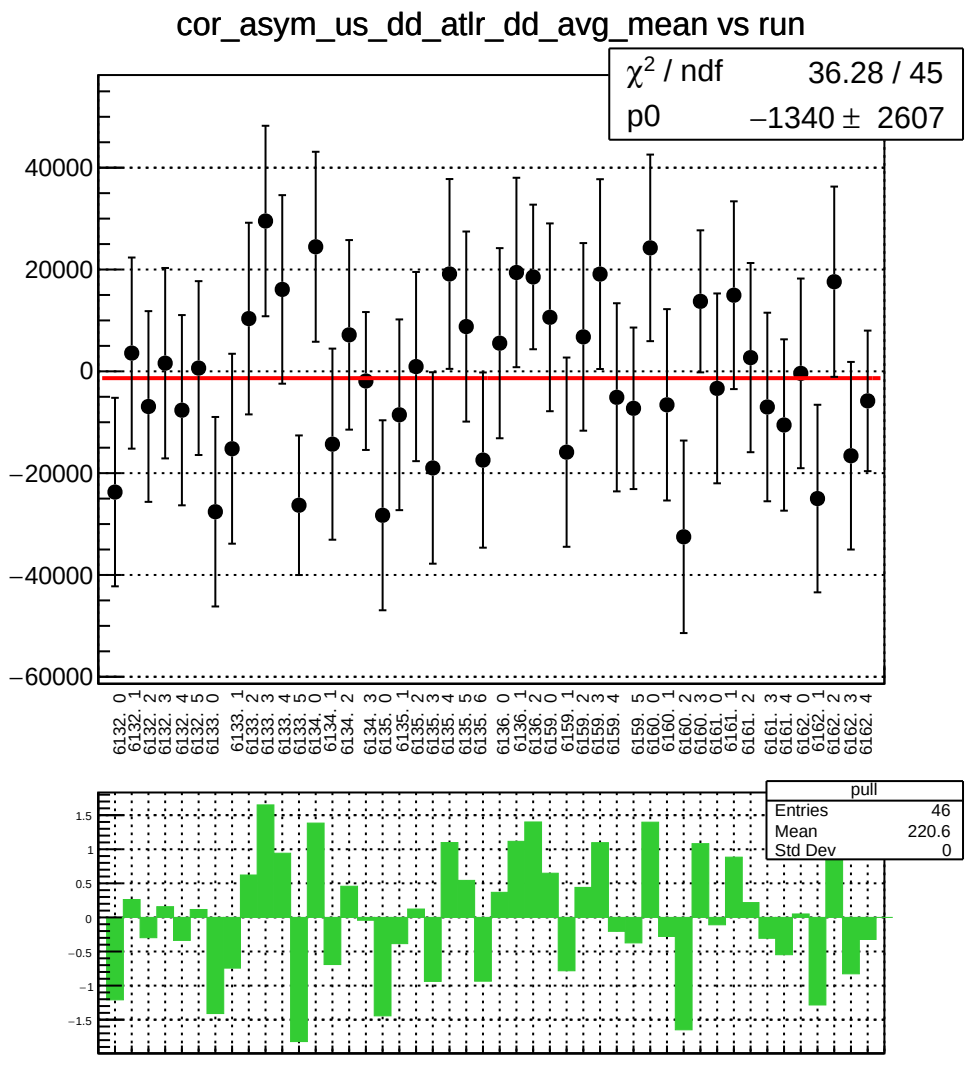
cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 36.28 / 45
p0 −1340 ± 2607
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−20000
−40000
−60000
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6132. 2
6132. 3
6132. 4
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6161. 4
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pull
Entries 46
Mean 220.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.00293
Std Dev 0.8881
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−8
−6
−4
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2
4
6
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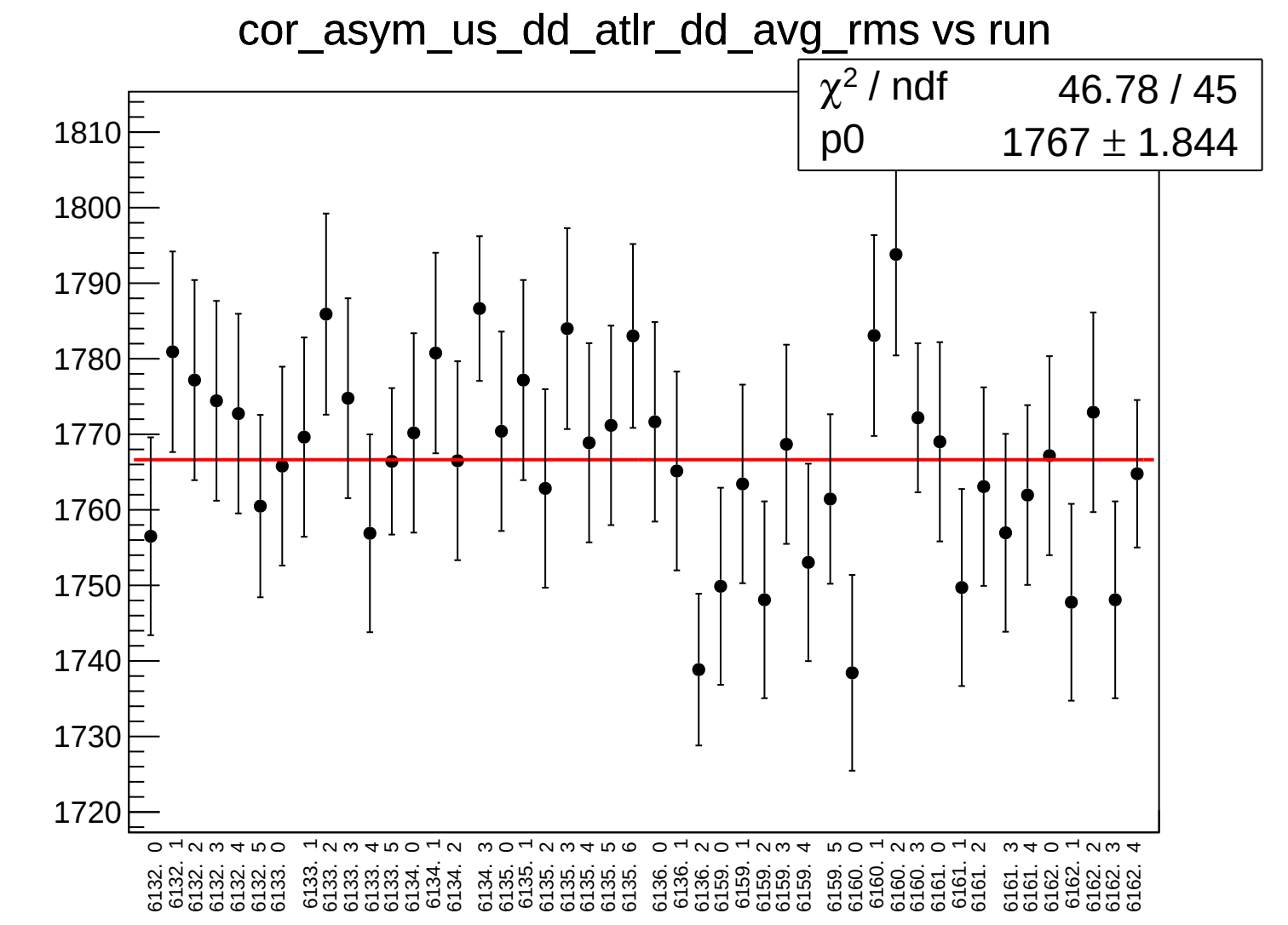
cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 46.78 / 45
p0 1767 ± 1.844
1810
1800
1790
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1770
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1740
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6135. 2
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6135. 6
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6160. 2
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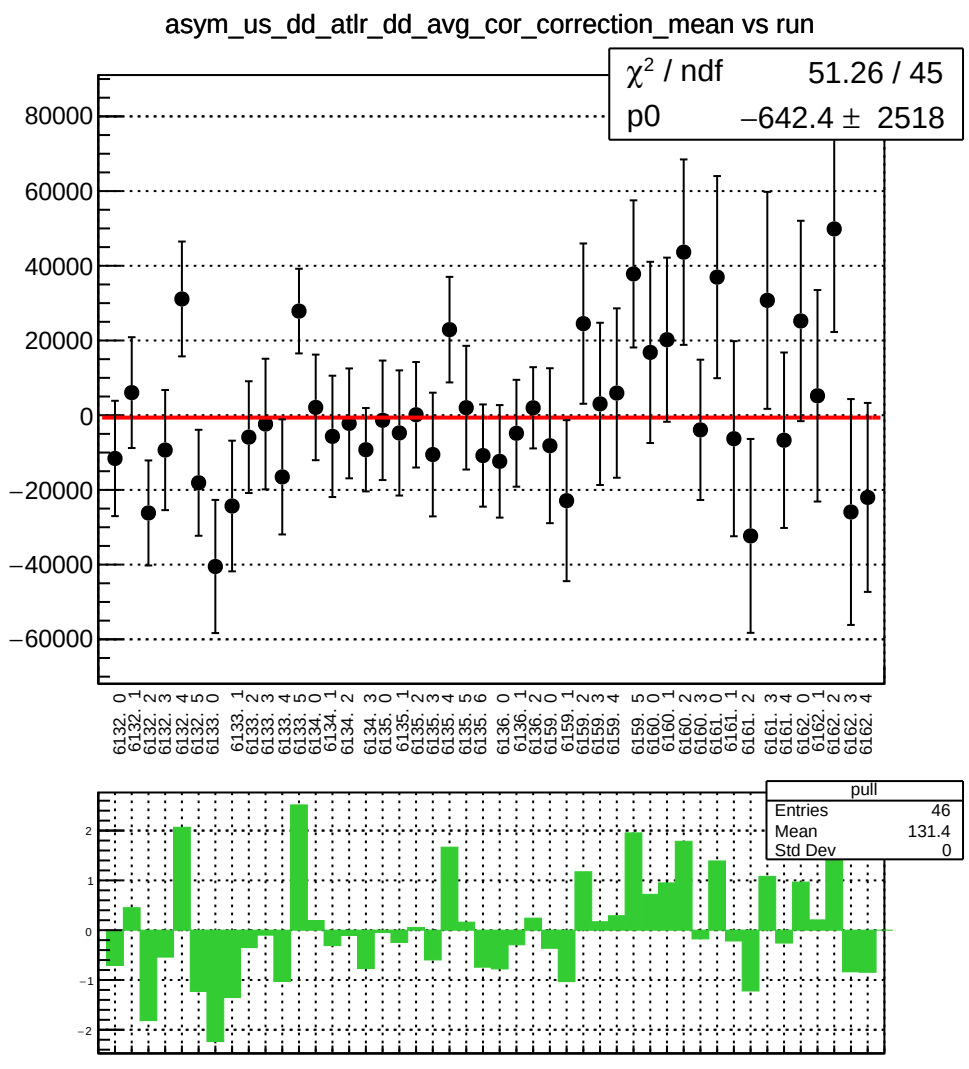
6162. 4


asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 51.26 / 45
p0 −642.4 ± 2518
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40000
20000
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−20000
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−60000
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6132. 2
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6133. 4
6133. 5
6134. 0
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6134. 2
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6160. 1
6160. 2
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6161. 4
6162. 0
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pull
Entries 46
Mean 131.4
Std Dev 0
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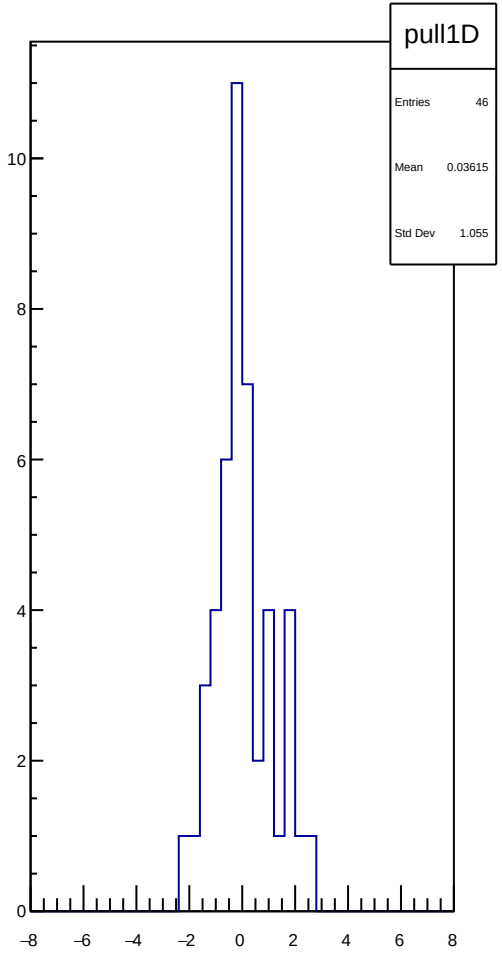
0
−1
−2


pull1D
Entries 46
Mean 0.03615
Std Dev 1.055
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2
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−8
−6
−4
−2
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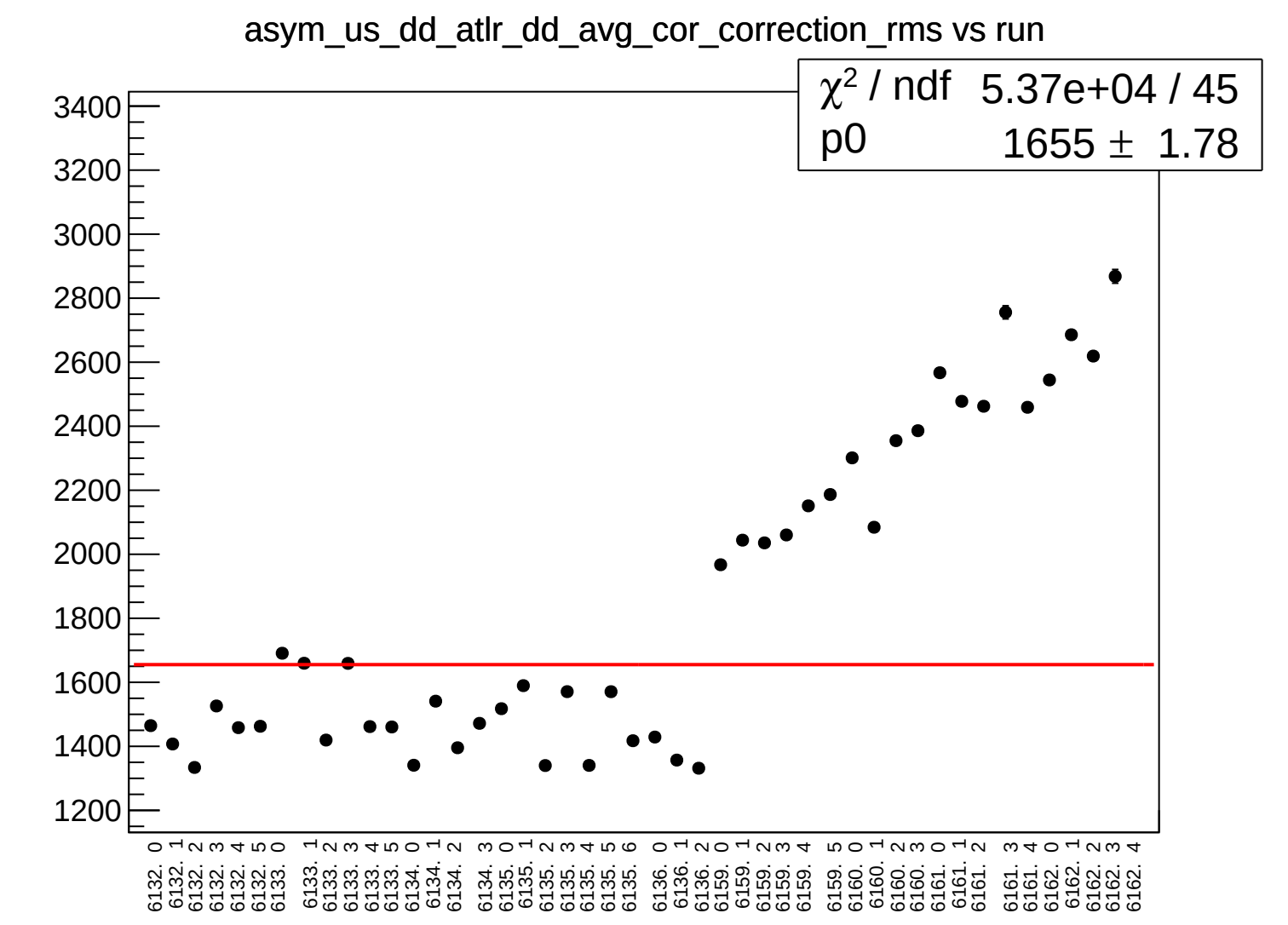
2
4
6
8


asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 5.37e+04 / 45
p0 1655 ± 1.78
3400
3200
3000
2800
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6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
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6160. 1
6160. 2
6160. 3
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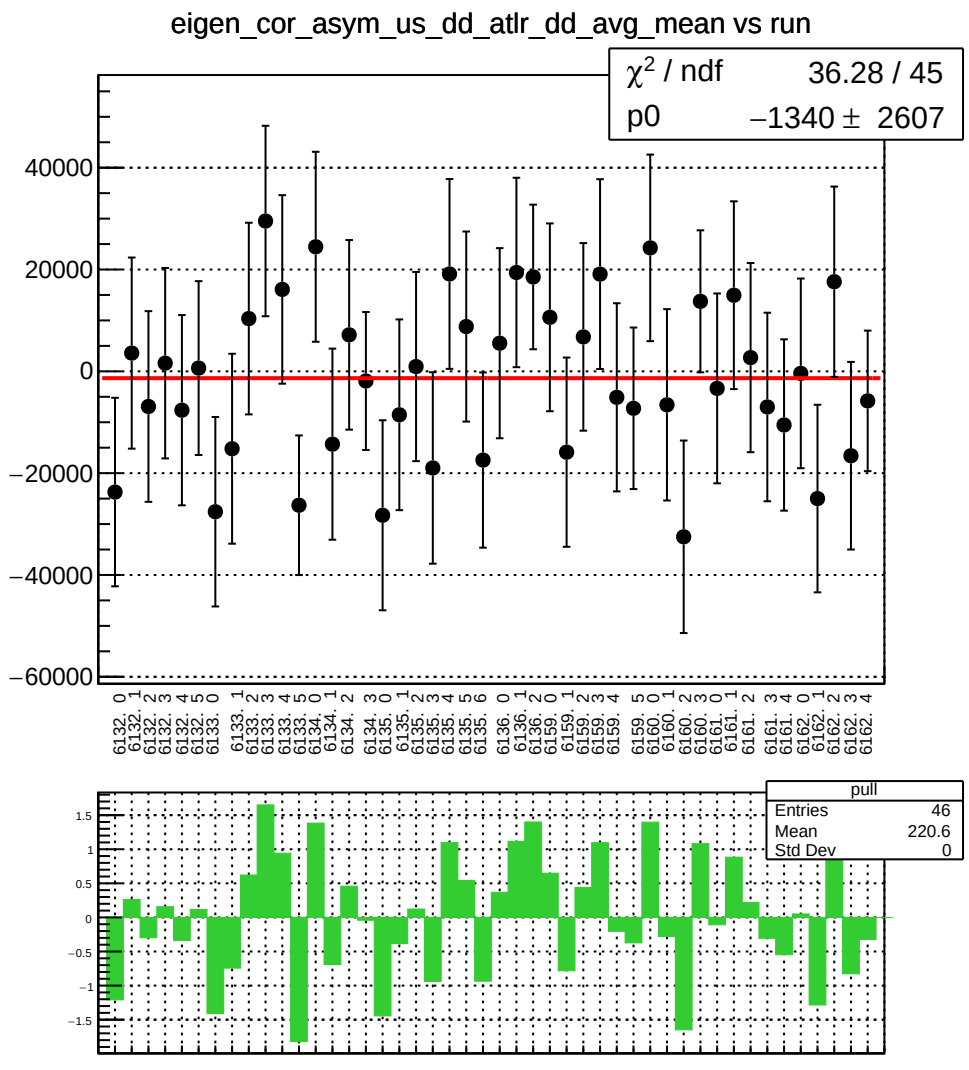
eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 36.28 / 45
p0 −1340 ± 2607
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
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6161. 4
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6162. 3
6162. 4
pull
Entries 46
Mean 220.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.00293
Std Dev 0.8881
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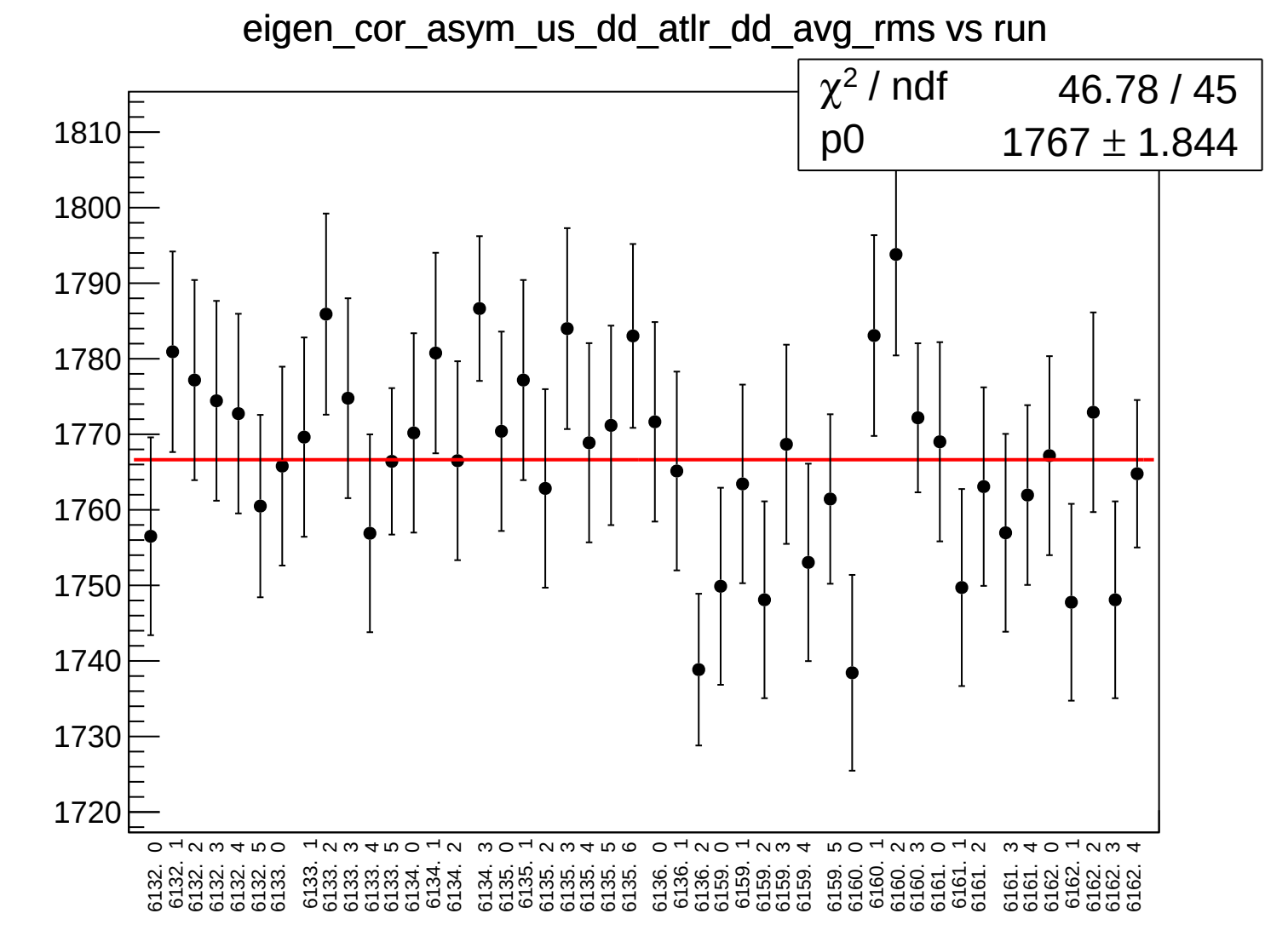
eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 46.78 / 45
p0 1767 ± 1.844
1810
1800
1790
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1770
1760
1750
1740
1730
1720
6132. 0
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6160. 1
6160. 2
6160. 3
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6162. 0
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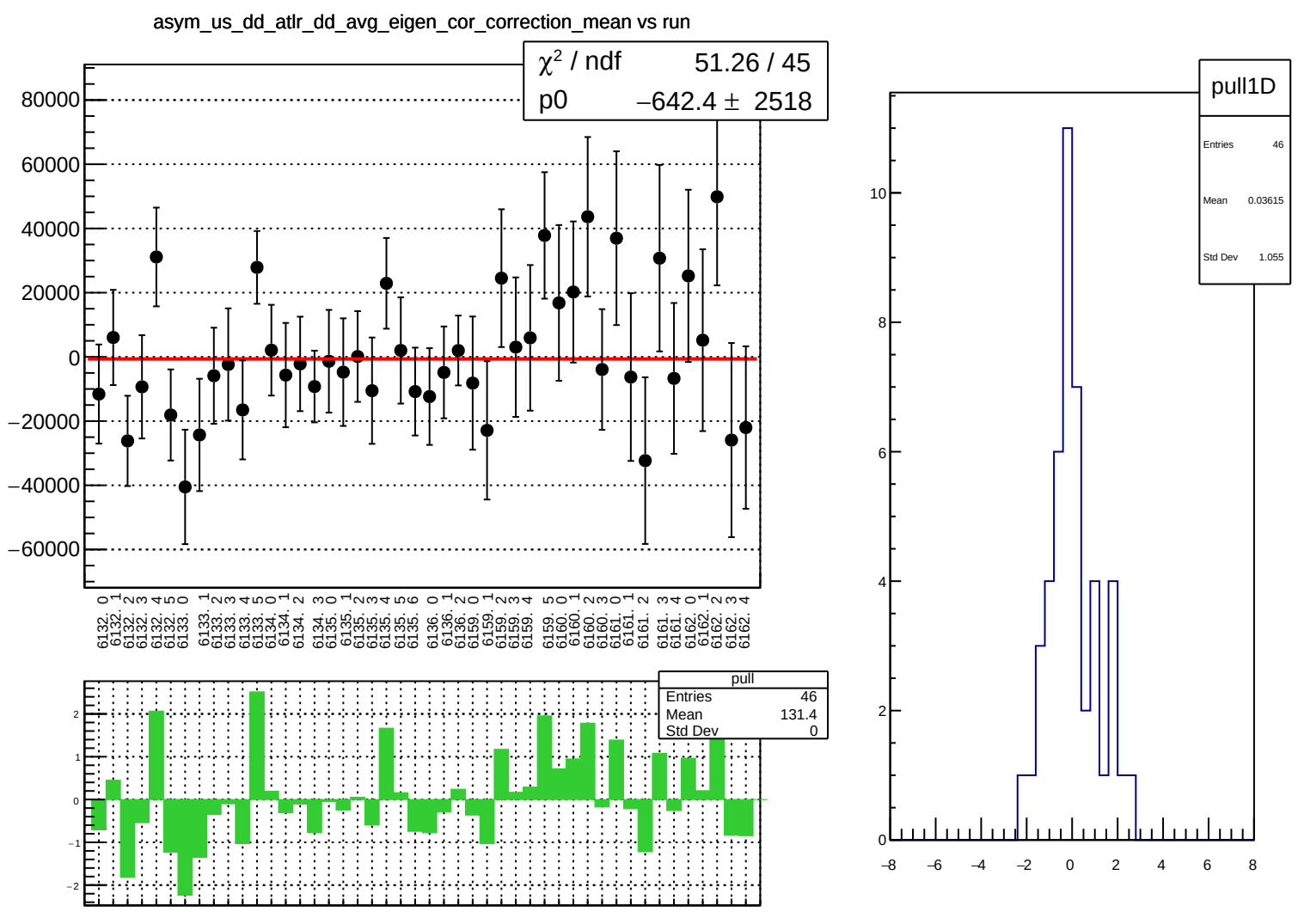
6162. 4


asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 51.26 / 45
p0 −642.4 ± 2518
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
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6132. 4
6132. 5
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6133. 2
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6159. 5
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6160. 1
6160. 2
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6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 131.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.03615
Std Dev 1.055
10
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6
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2
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−4
−2
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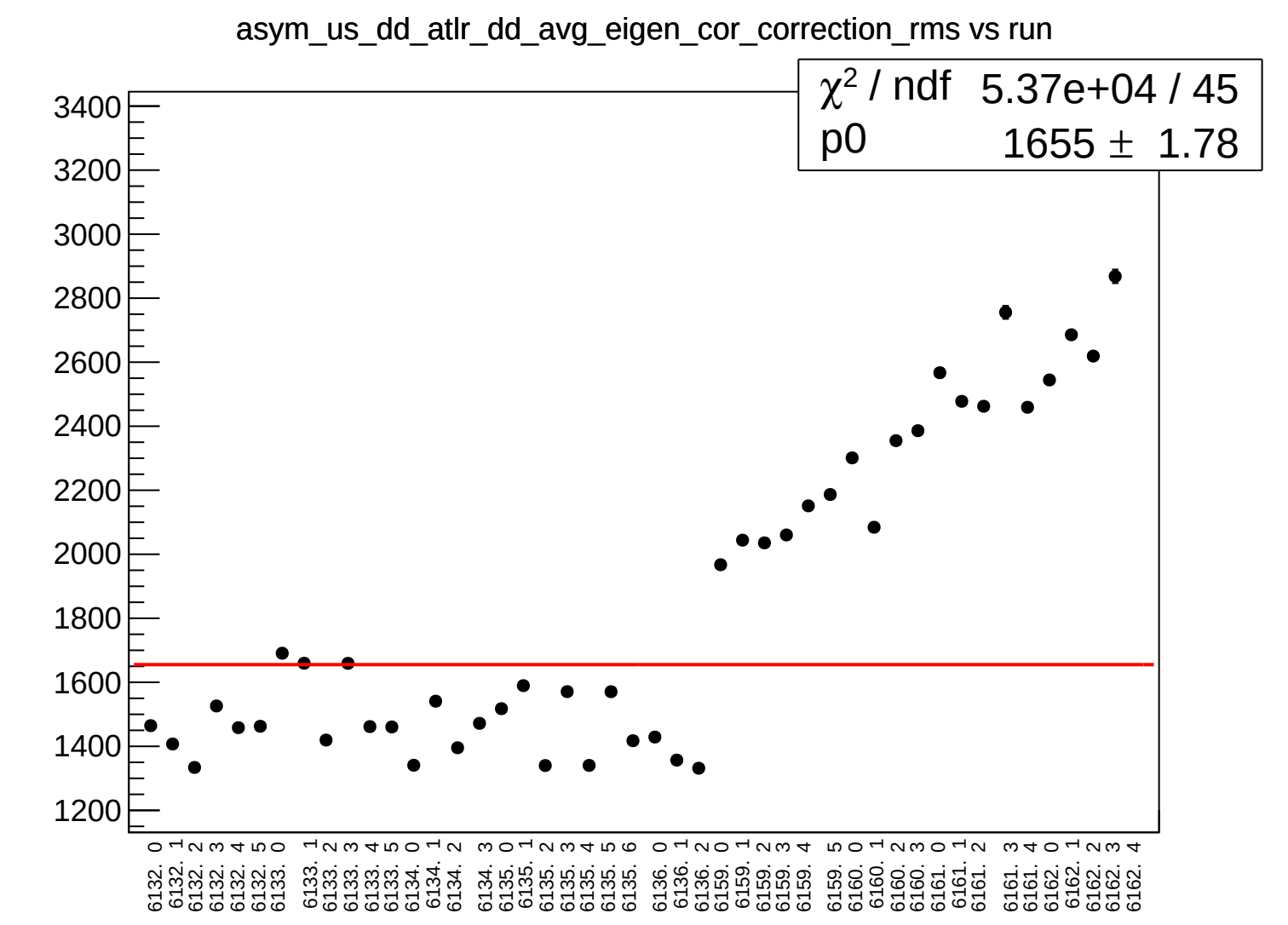
4
6
8


asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.37e+04 / 45
p0 1655 ± 1.78
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
6132. 0
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6132. 2
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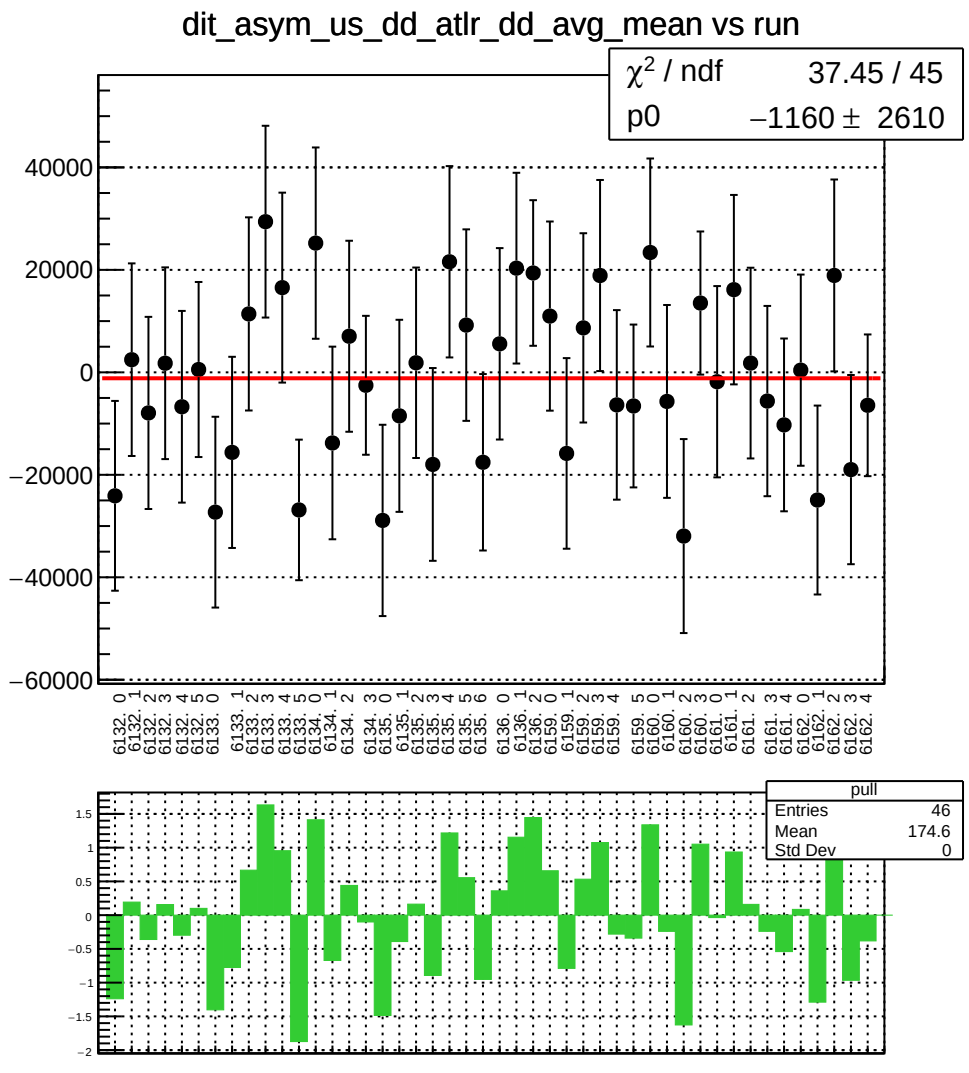
dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 37.45 / 45
p0 −1160 ± 2610
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
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6161. 0
6161. 1
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6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 174.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.004199
Std Dev 0.9023
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8
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2
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−6
−4
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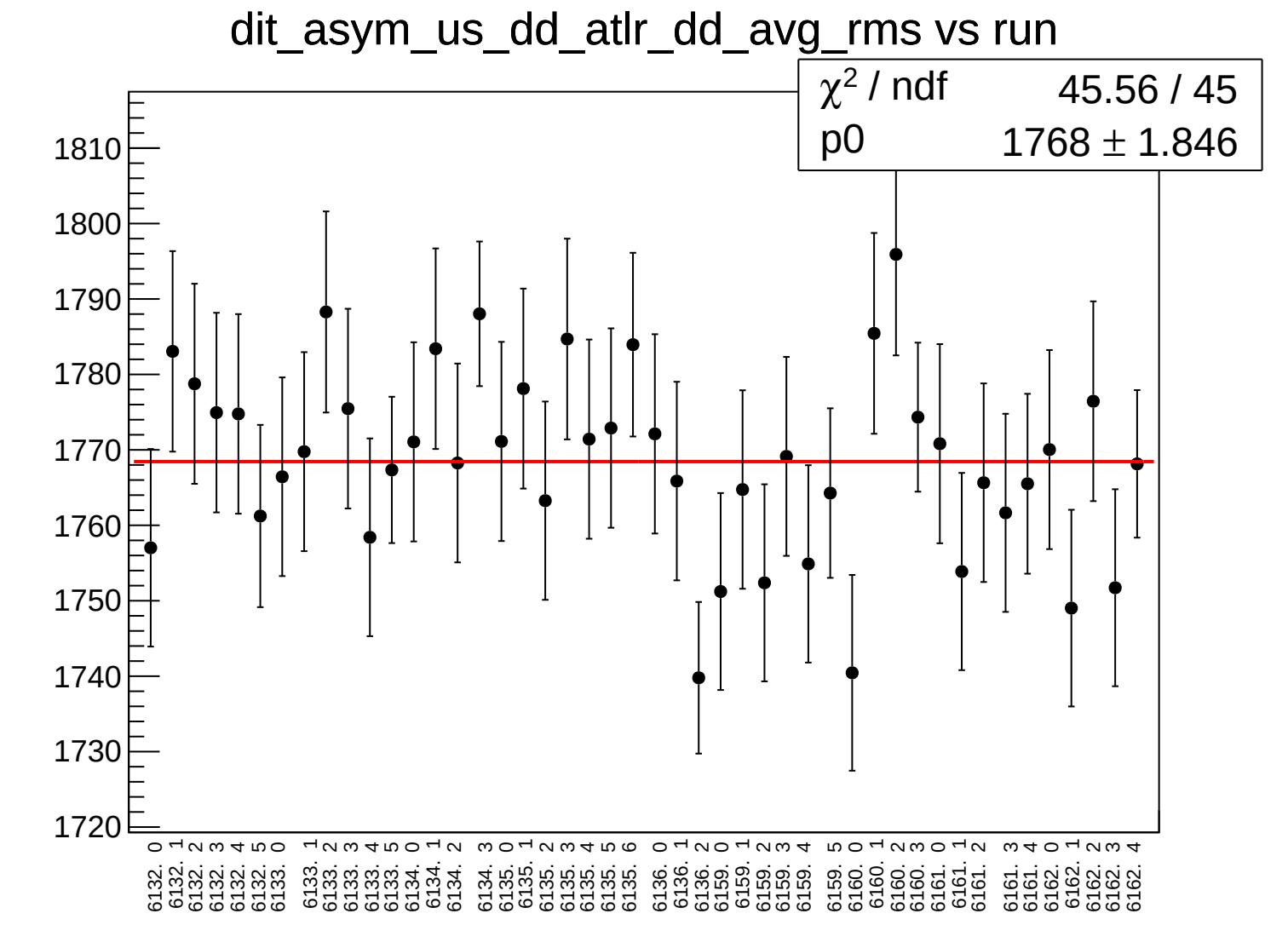
2
4
6
8


dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 45.56 / 45
p0 1768 ± 1.846
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1800
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1780
1770
1760
1750
1740
1730
1720
6132. 0
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6132. 4
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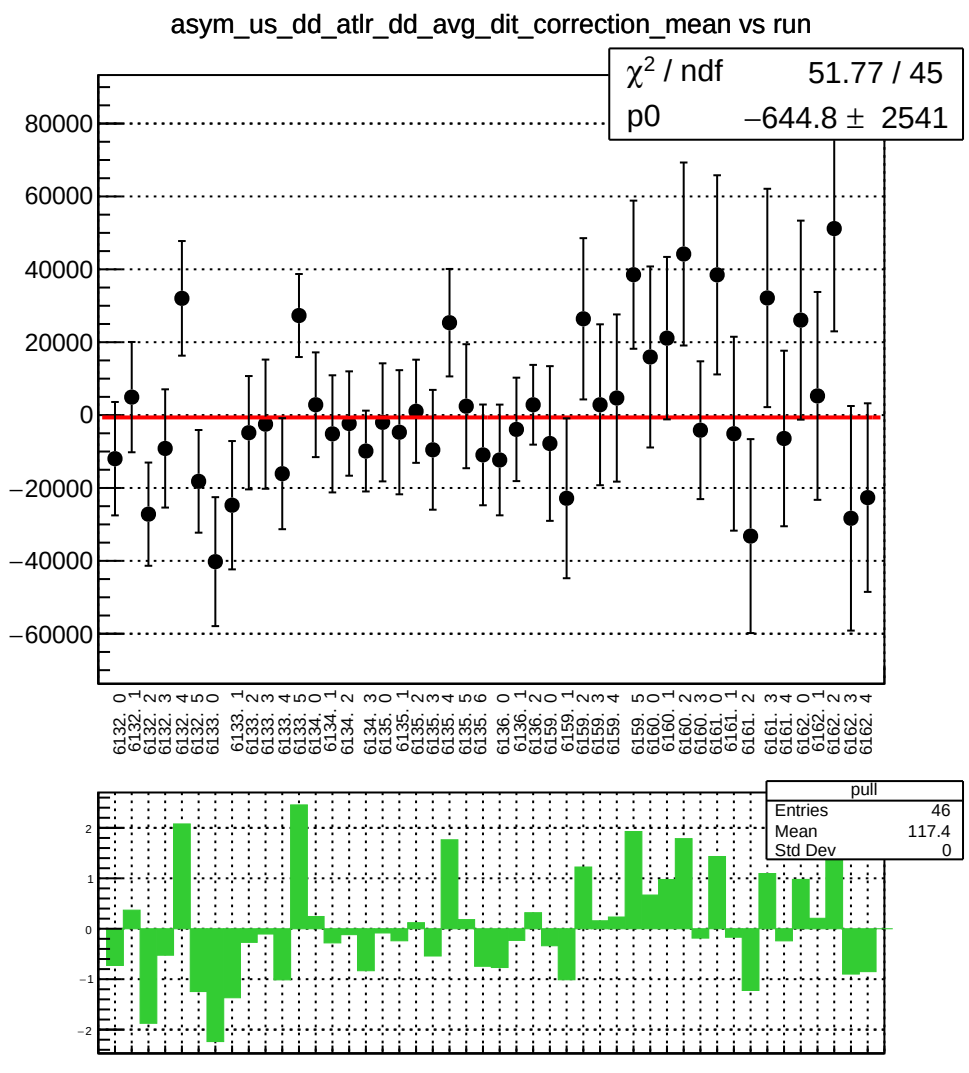
asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 51.77 / 45
p0 −644.8 ± 2541
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pull
Entries 46
Mean 117.4
Std Dev 0
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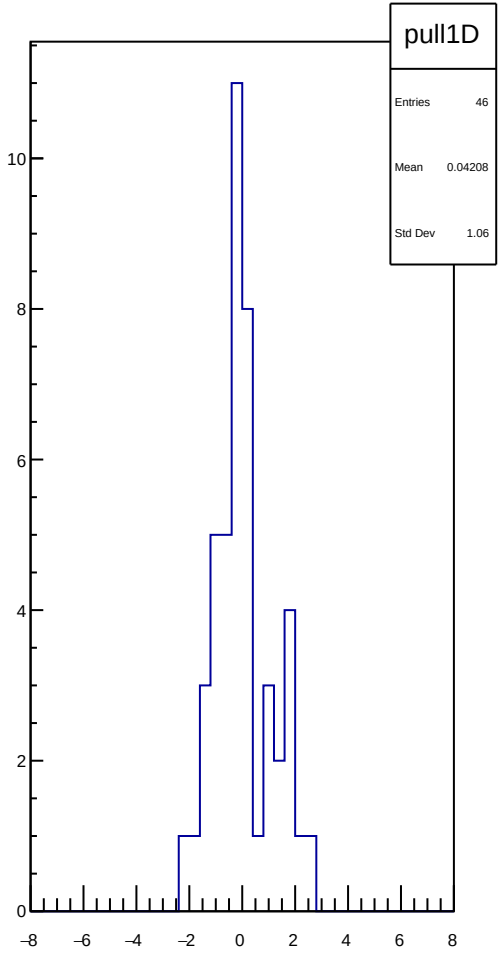
1
0
−1
−2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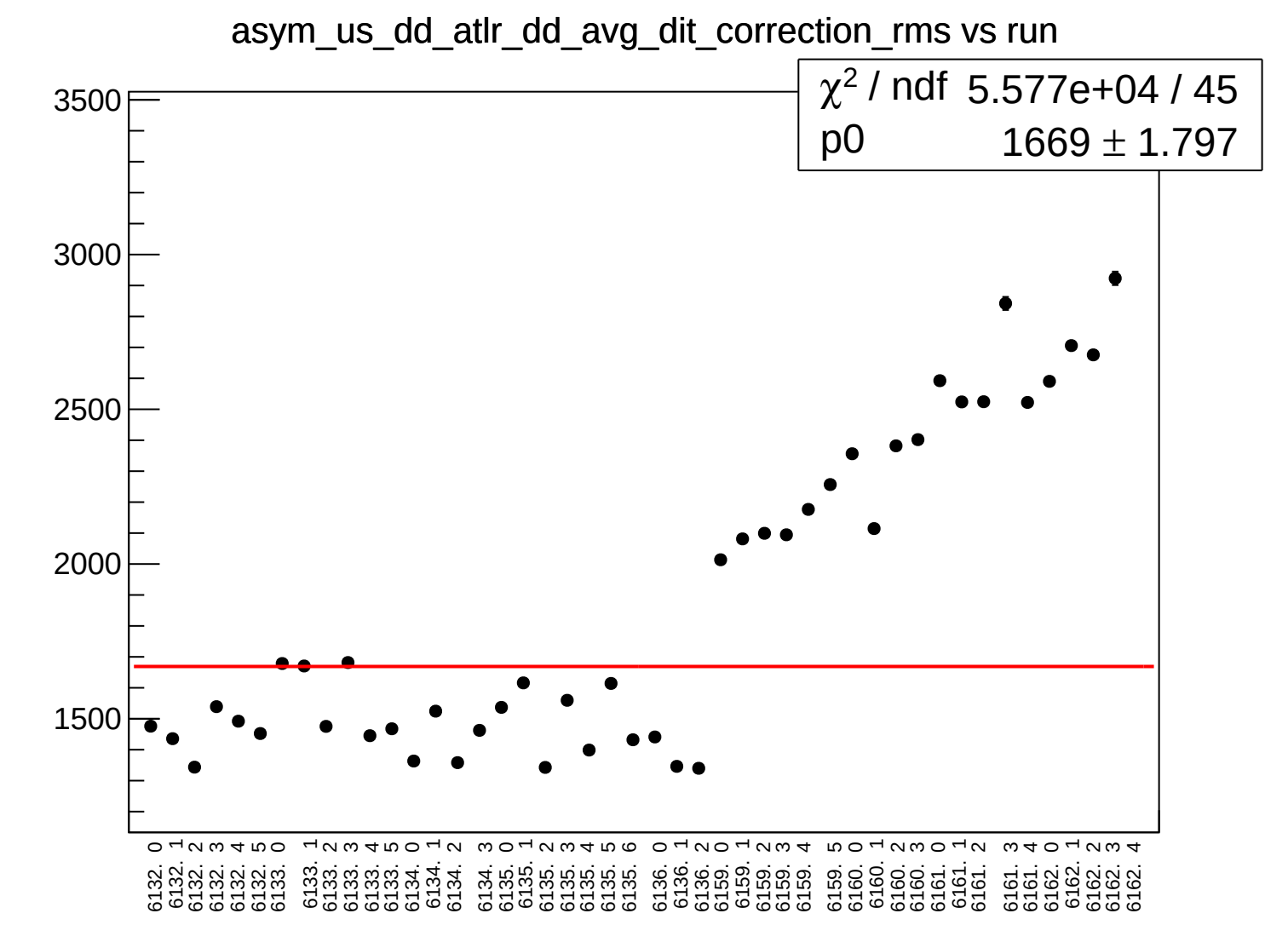
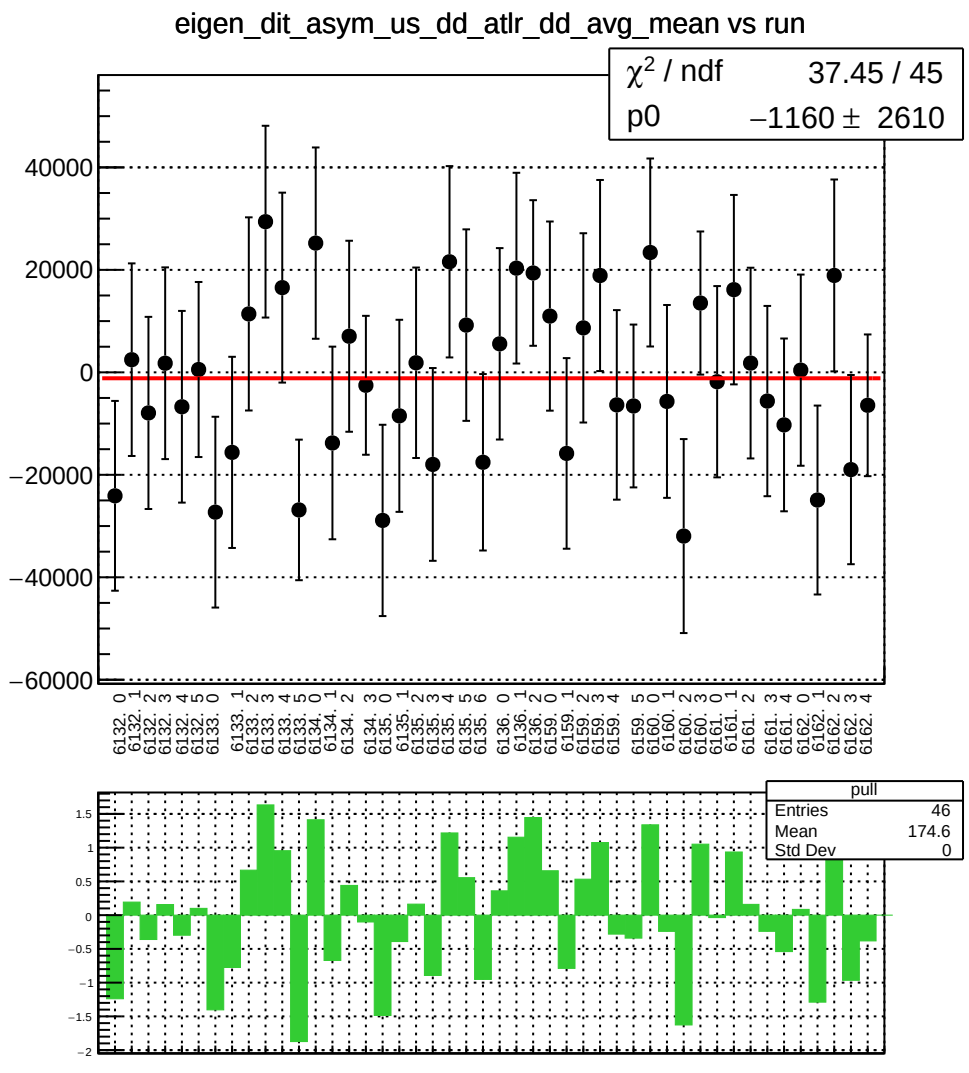
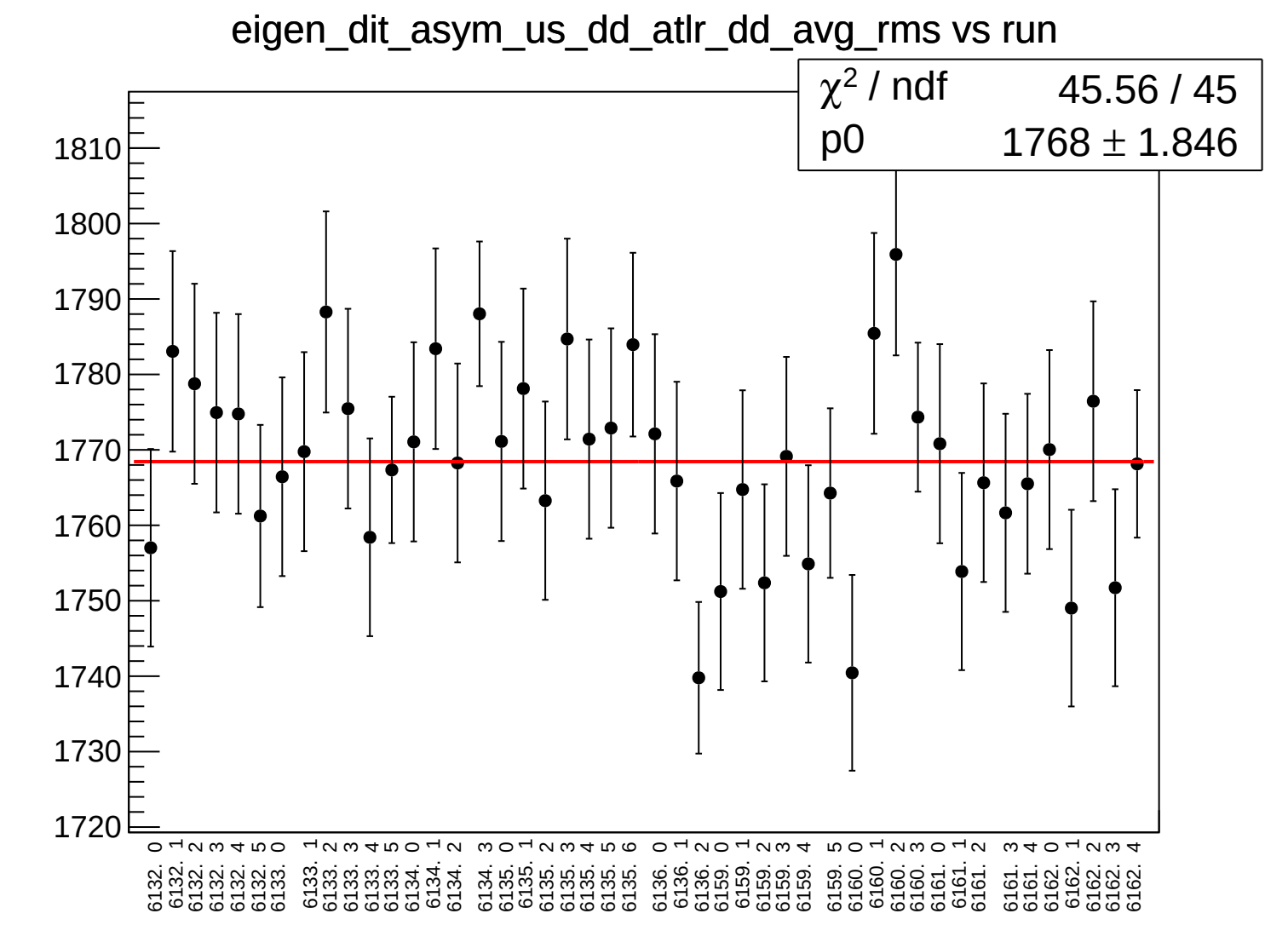
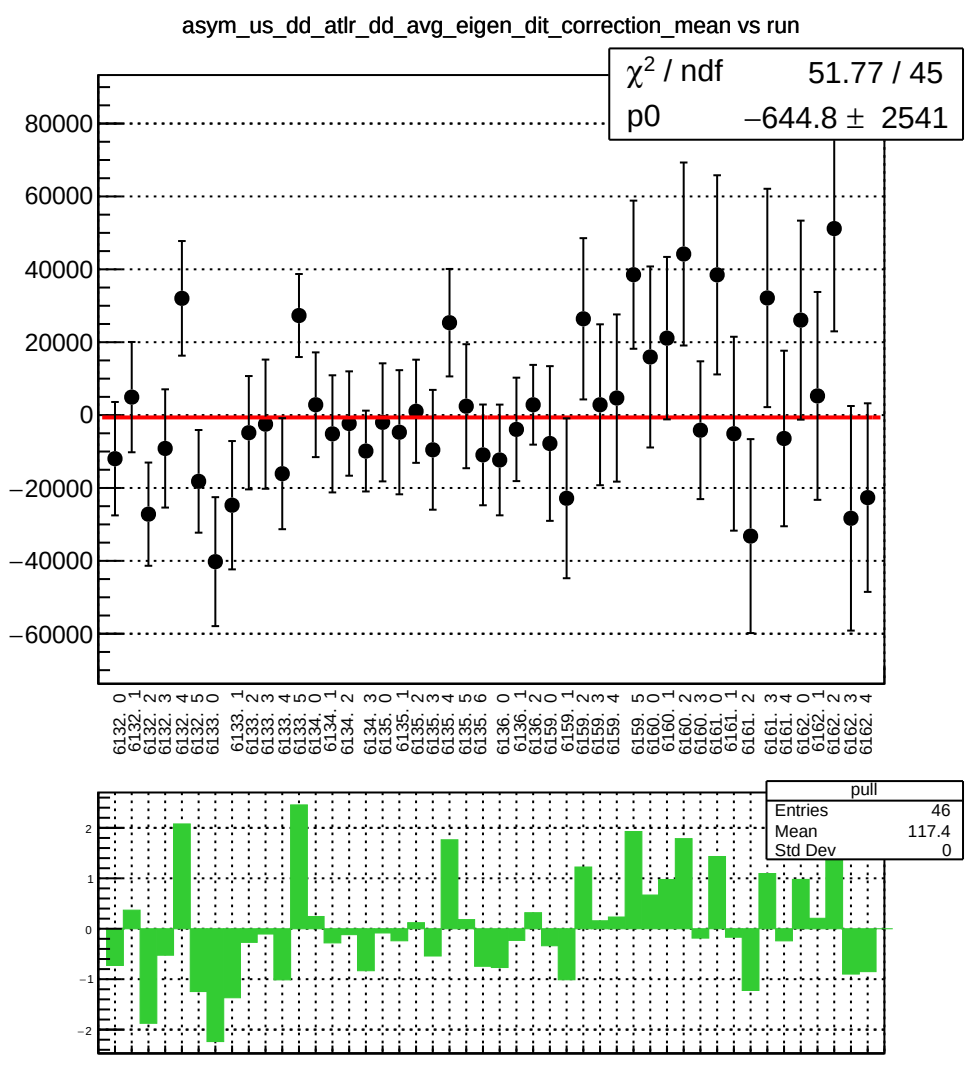
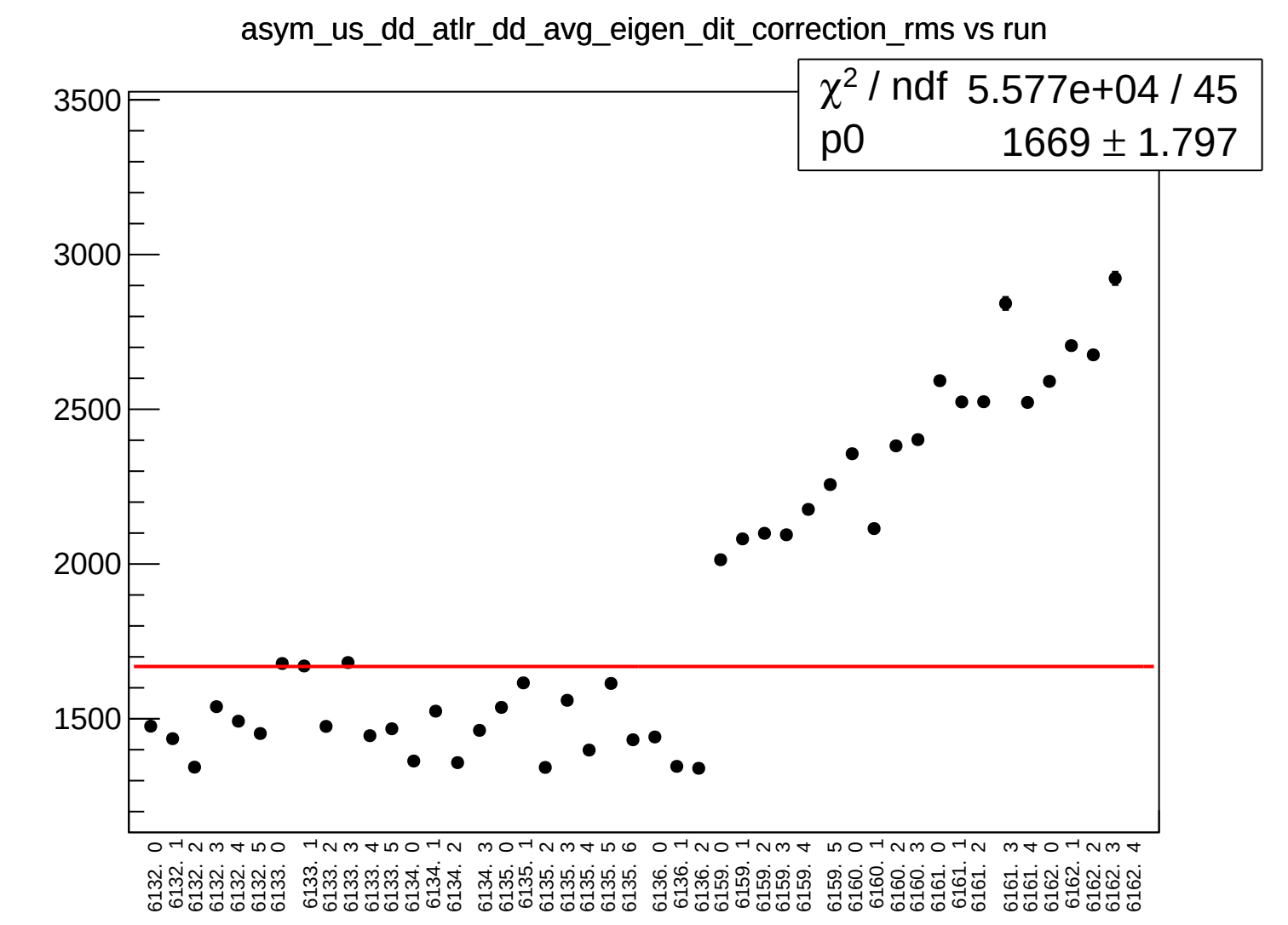
Mean 0.04208
Std Dev 1.06
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

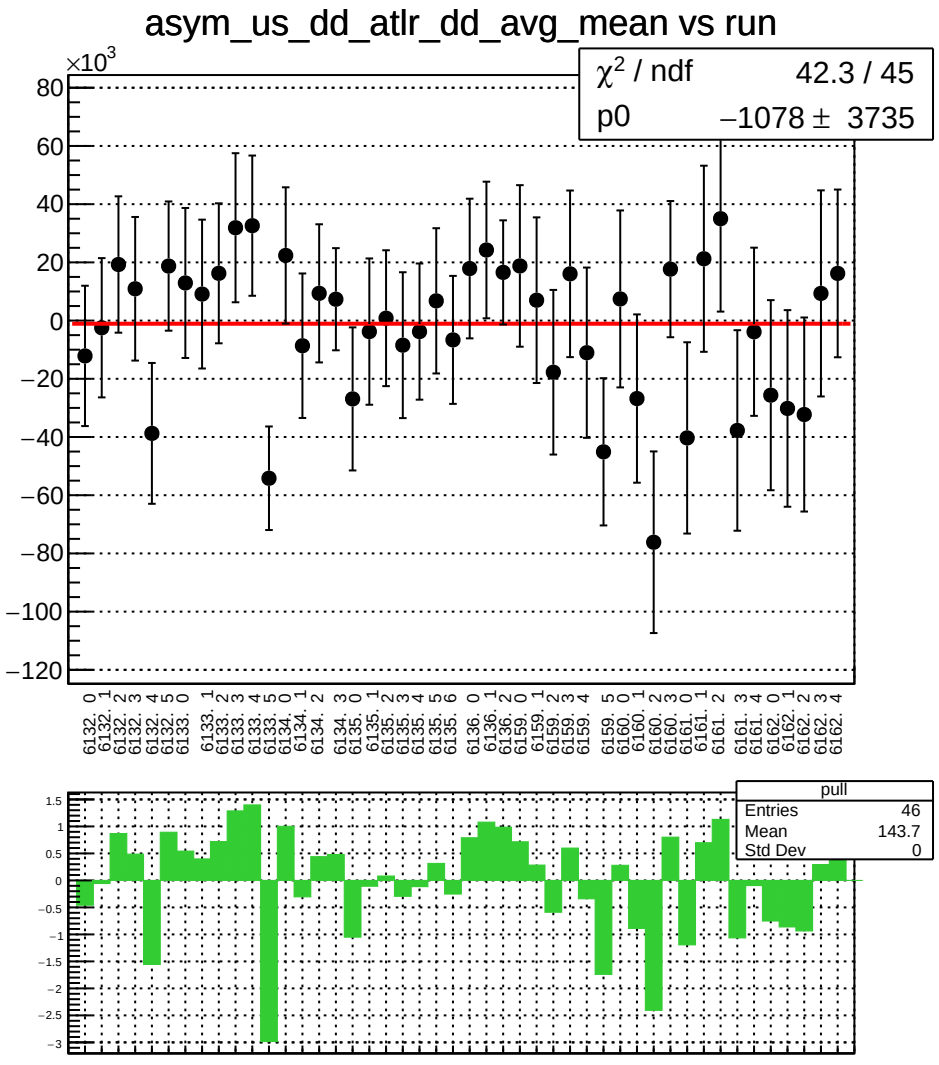

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 5.577e+04 / 45
p0 1669 ± 1.797
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

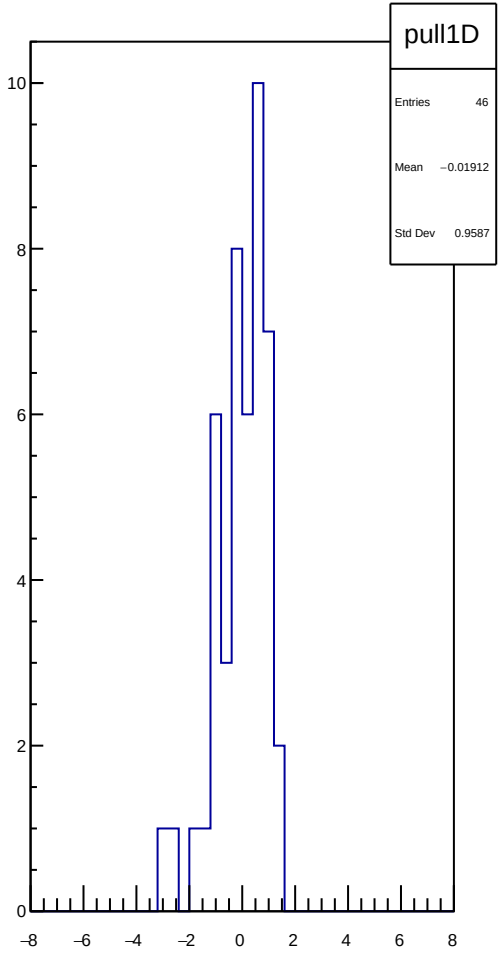

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 37.45 / 45
p0 −1160 ± 2610
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 174.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.004199
Std Dev 0.9023
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

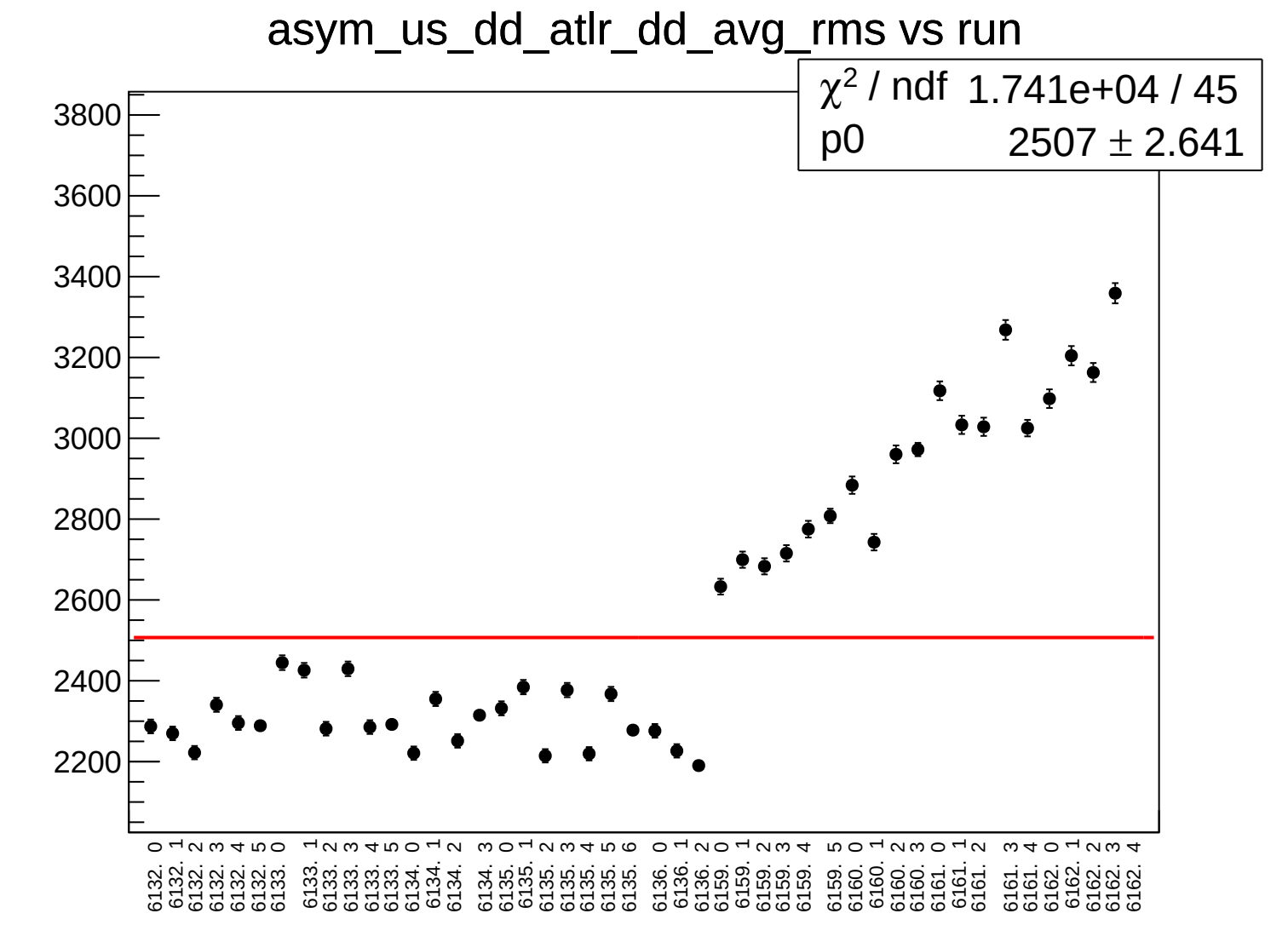

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 45.56 / 45
p0 1768 ± 1.846
1810
1800
1790
1780
1770
1760
1750
1740
1730
1720
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

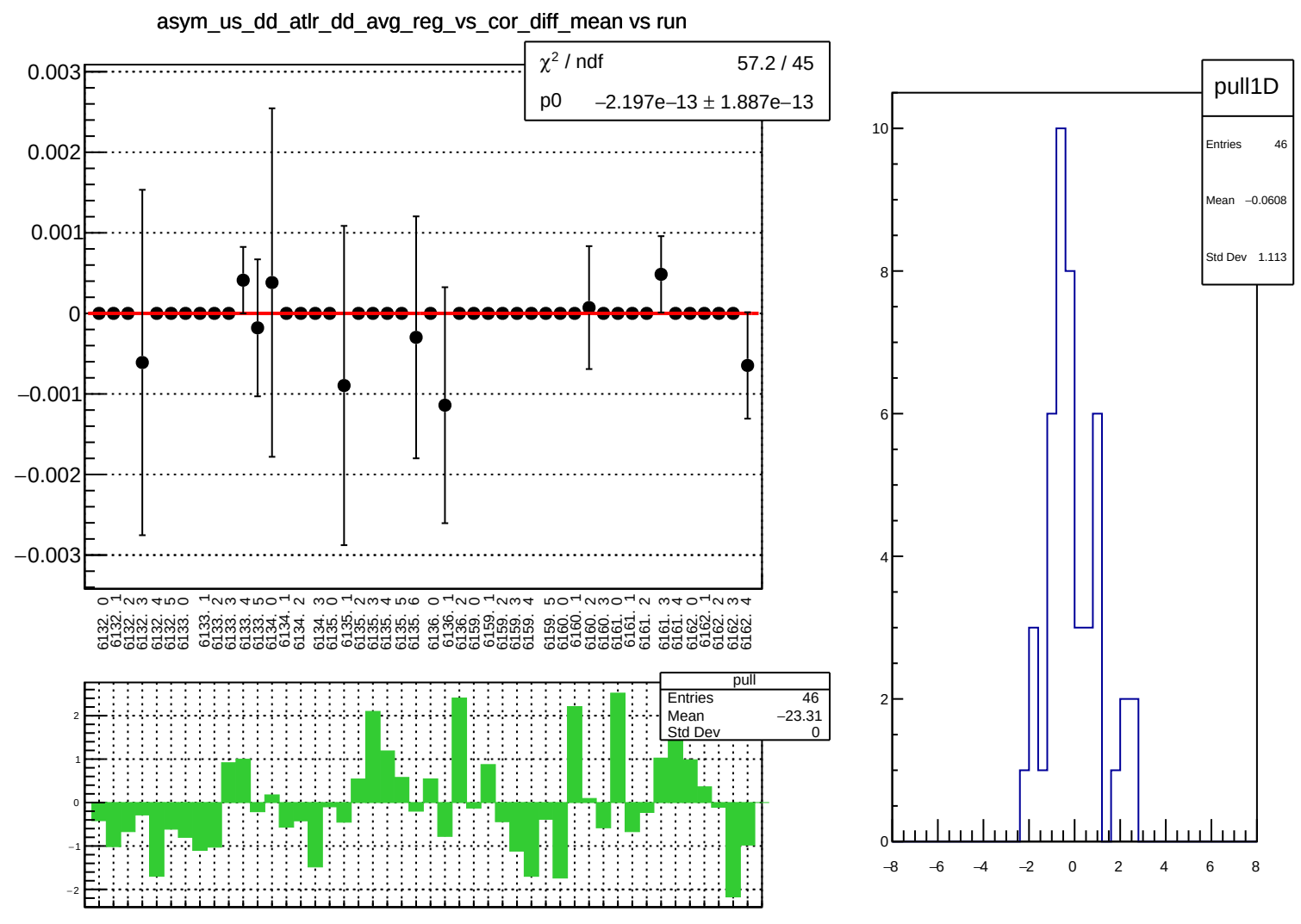

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 51.77 / 45
p0 −644.8 ± 2541
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 117.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.04208
Std Dev 1.06
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

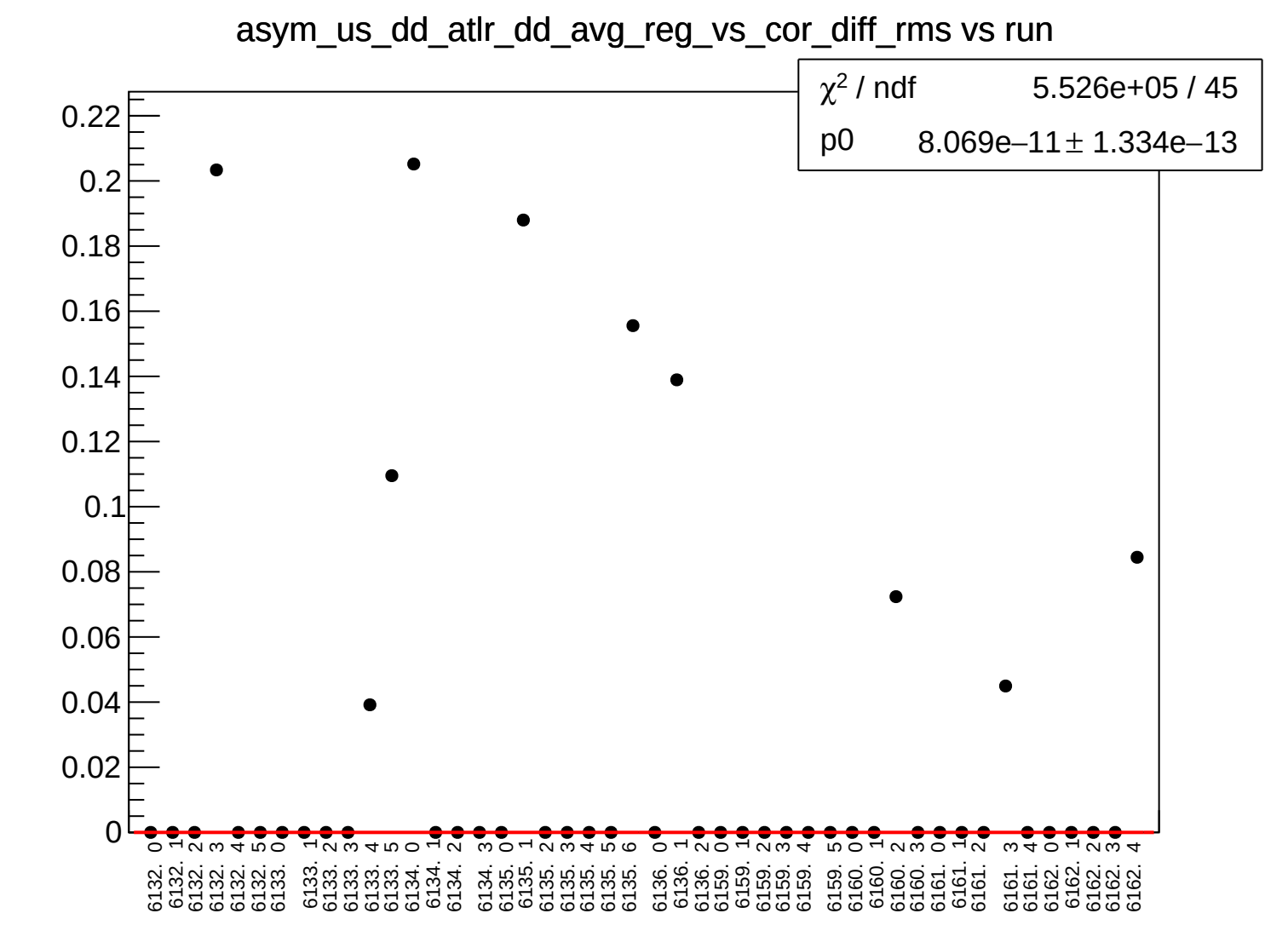

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.577e+04 / 45
p0 1669 ± 1.797
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

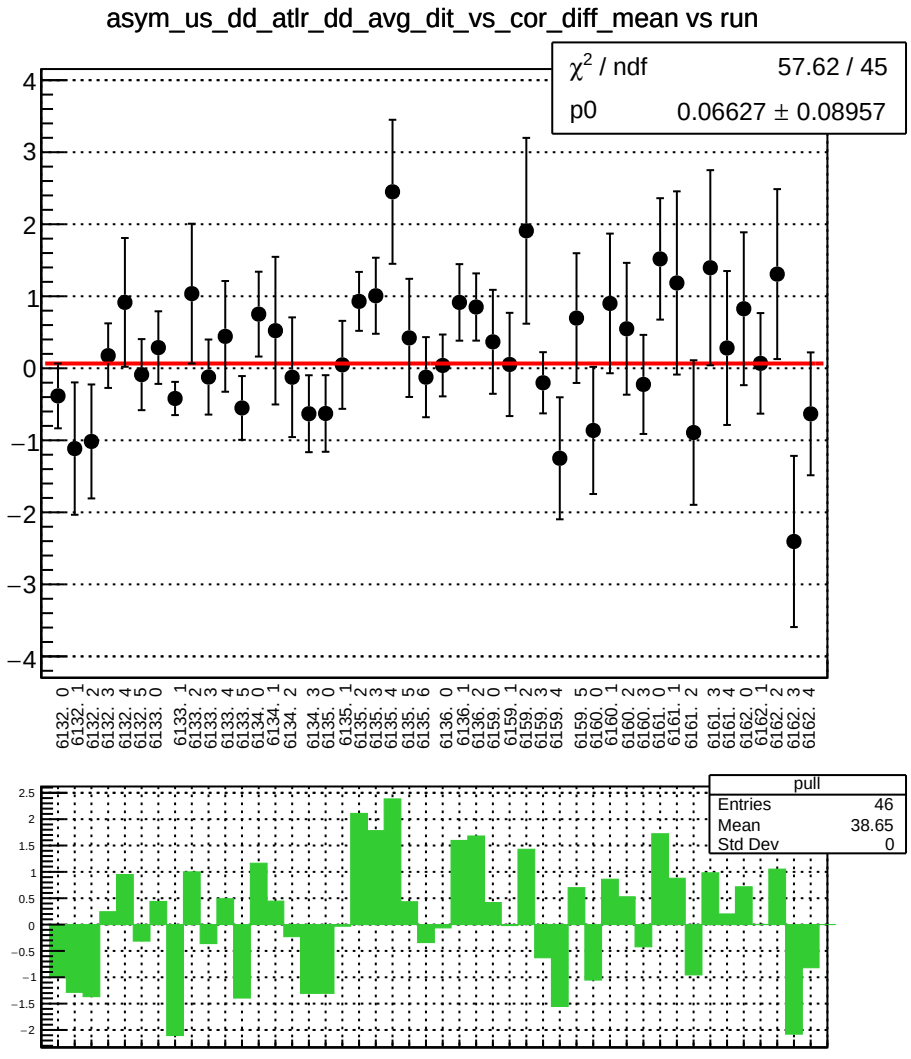

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 42.3 / 45
p0 −1078 ± 3735
pull
Entries 46
Mean 143.7
Std Dev 0

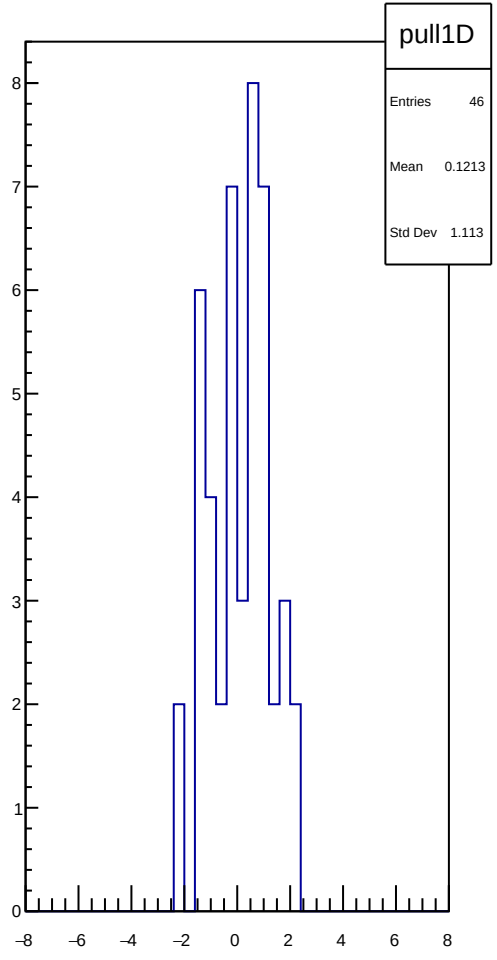

pull1D
Entries 46
Mean −0.01912
Std Dev 0.9587

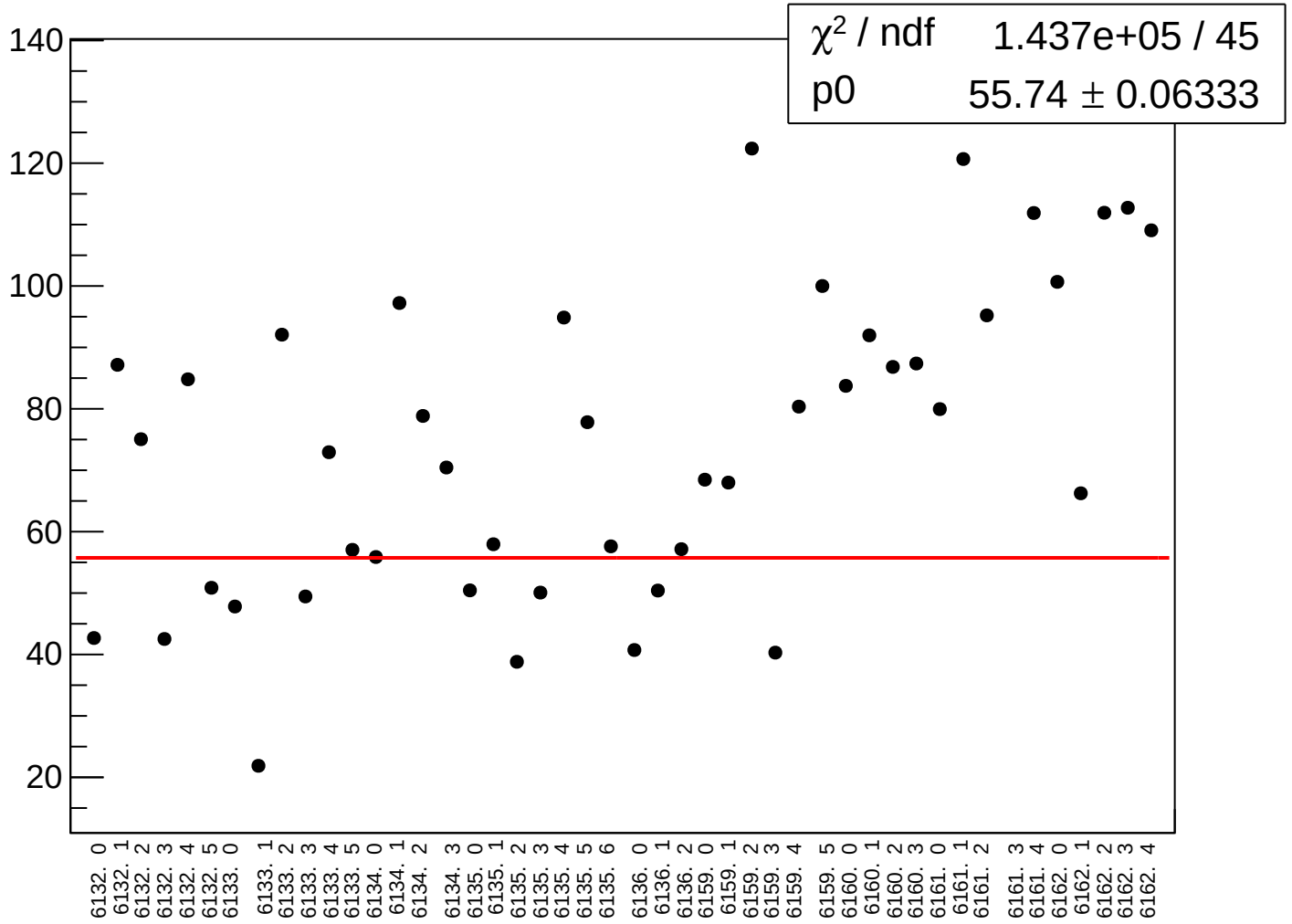

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1.741e+04 / 45
p0 2507 ± 2.641
3800
3600
3400
3200
3000
2800
2600
2400
2200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

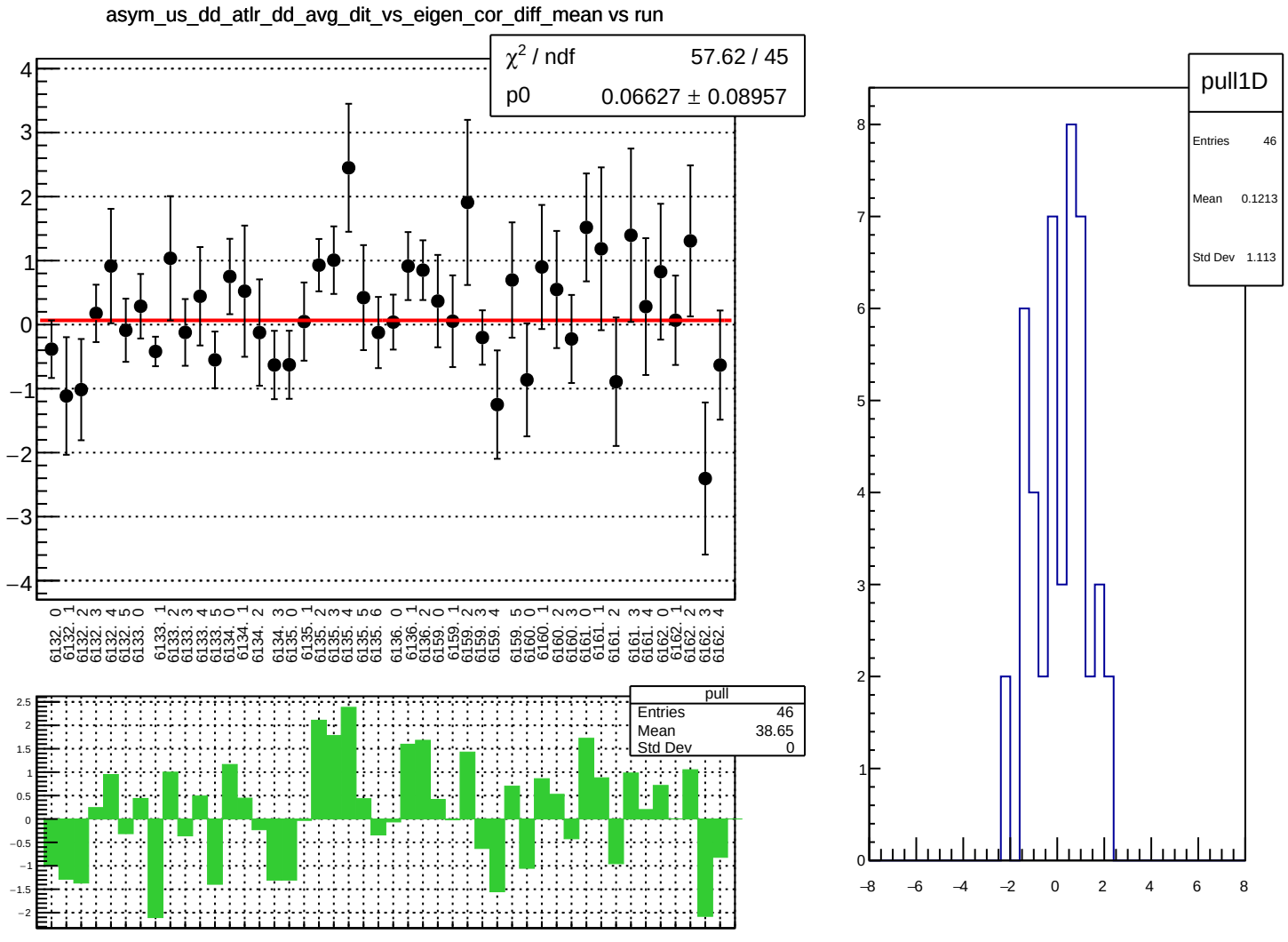

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 57.2 / 45
p0 −2.197e−13 ± 1.887e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −23.31
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.0608
Std Dev 1.113
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

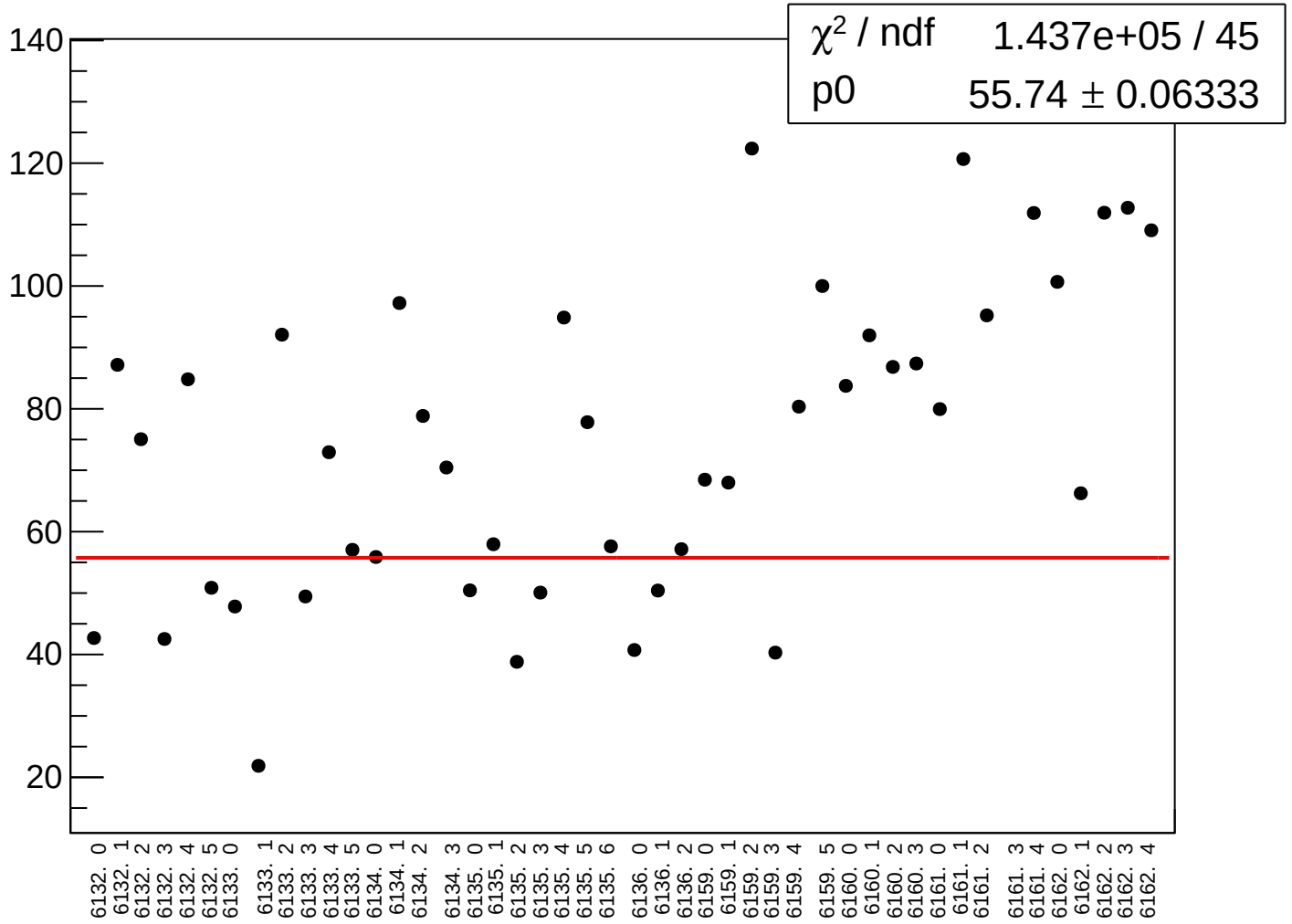

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.526e+05 / 45
p0 8.069e−11 ± 1.334e−13
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

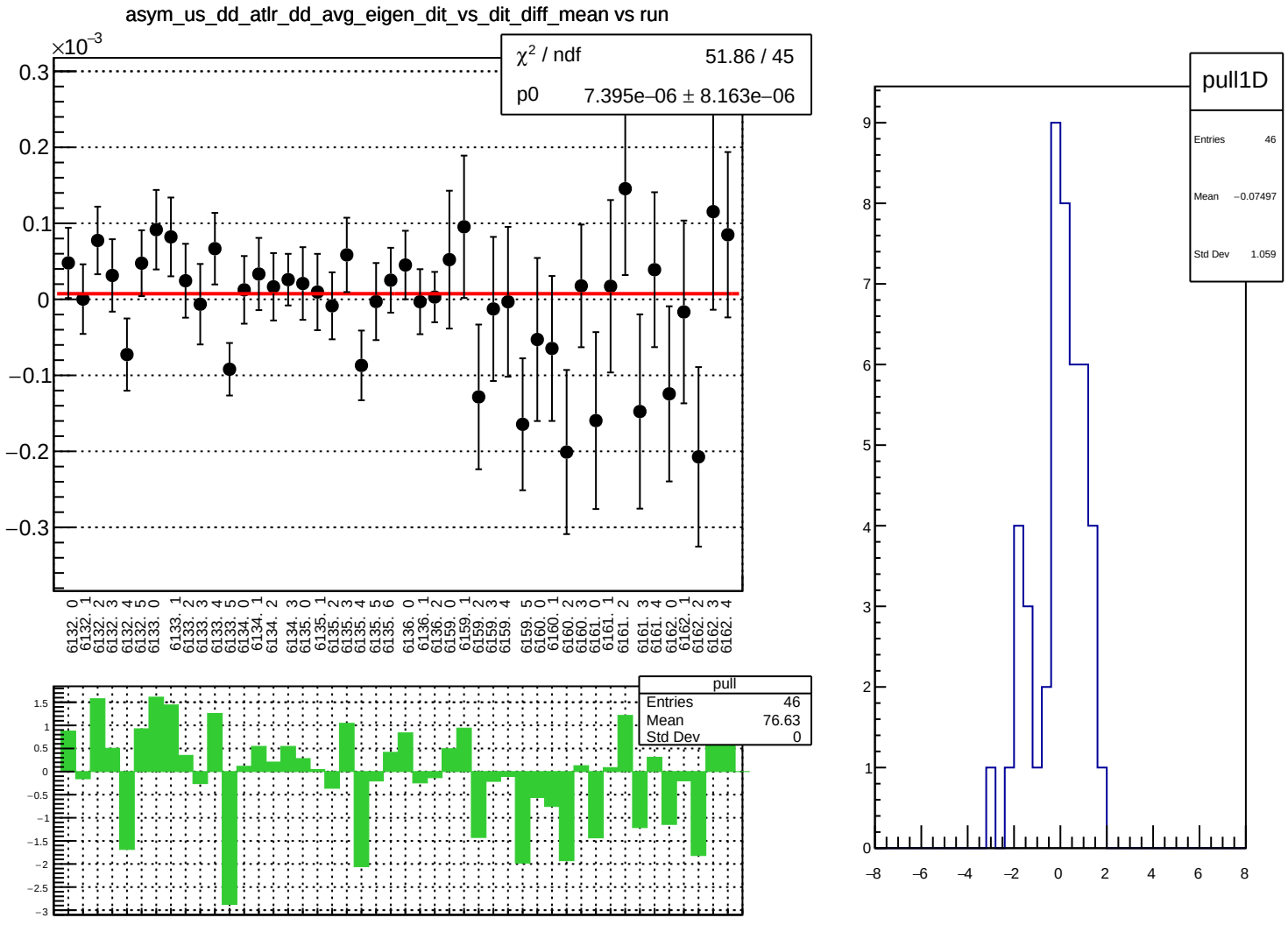

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 57.62 / 45
p0 0.06627 ± 0.08957
pull
Entries 46
Mean 38.65
Std Dev 0

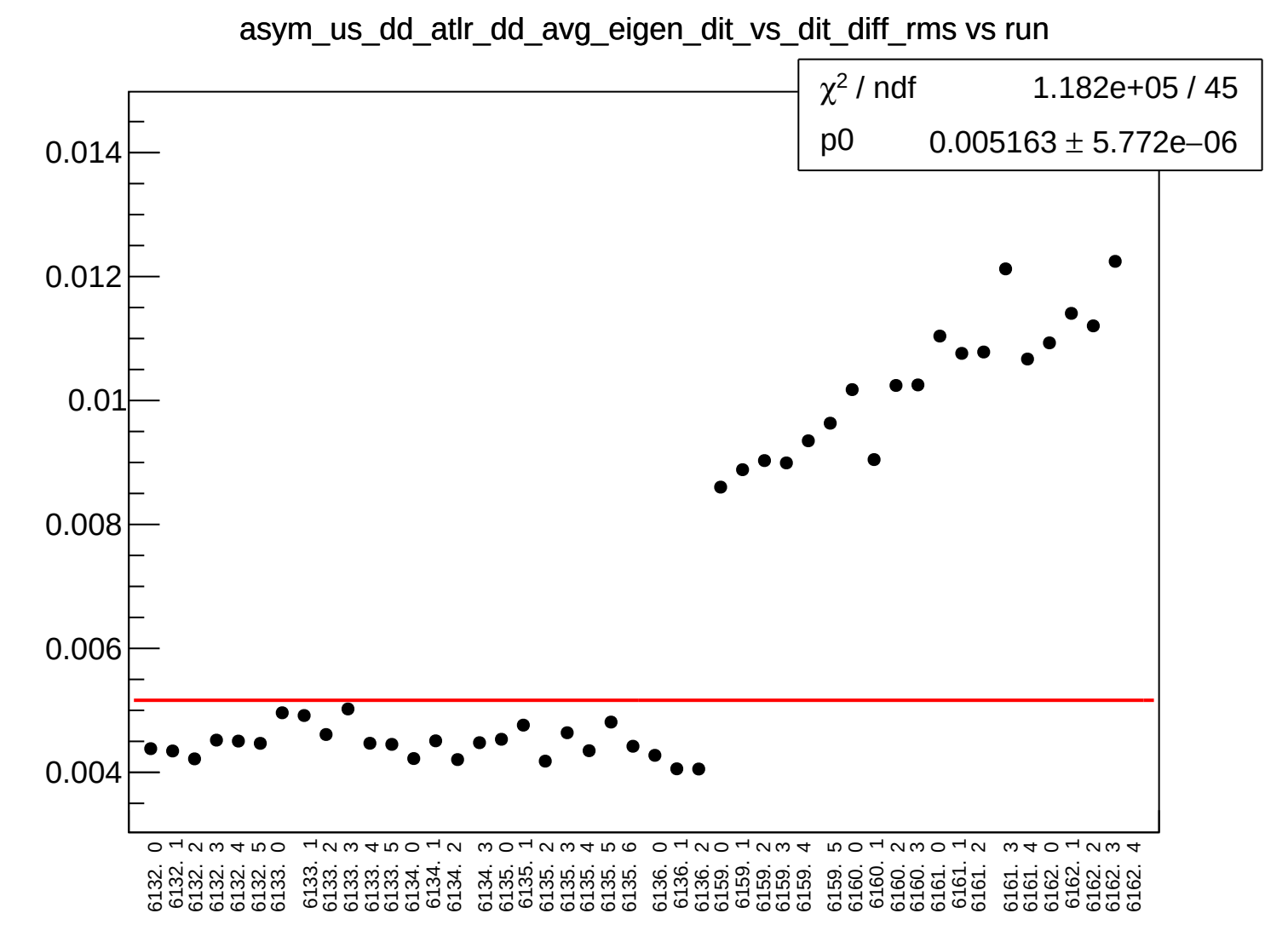

pull1D
Entries 46
Mean 0.1213
Std Dev 1.113

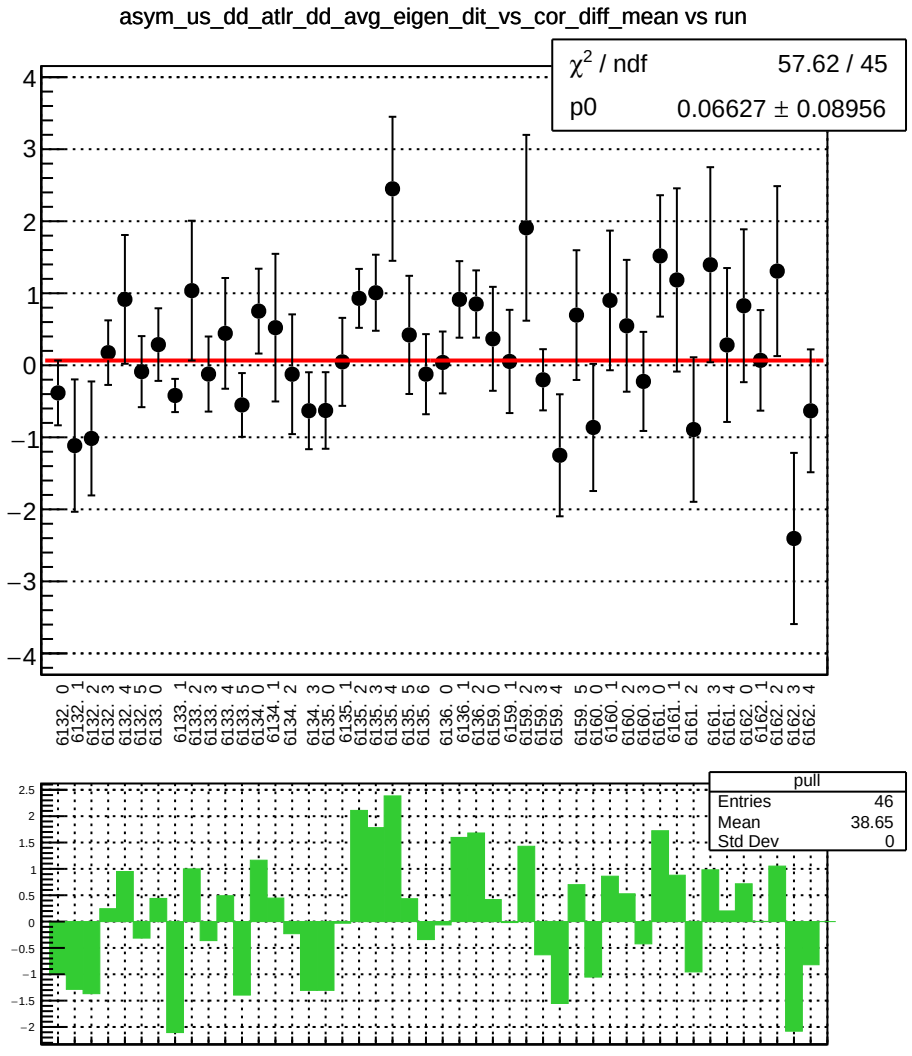

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.437e+05 / 45
p0 55.74 ± 0.06333
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

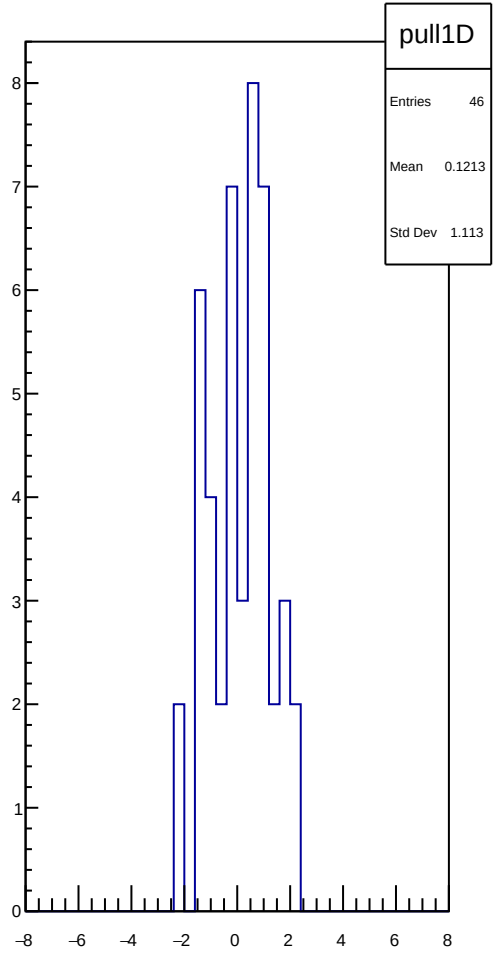

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.62 / 45
p0 0.06627 ± 0.08957
pull
Entries 46
Mean 38.65
Std Dev 0
pull1D
Entries 46
Mean 0.1213
Std Dev 1.113

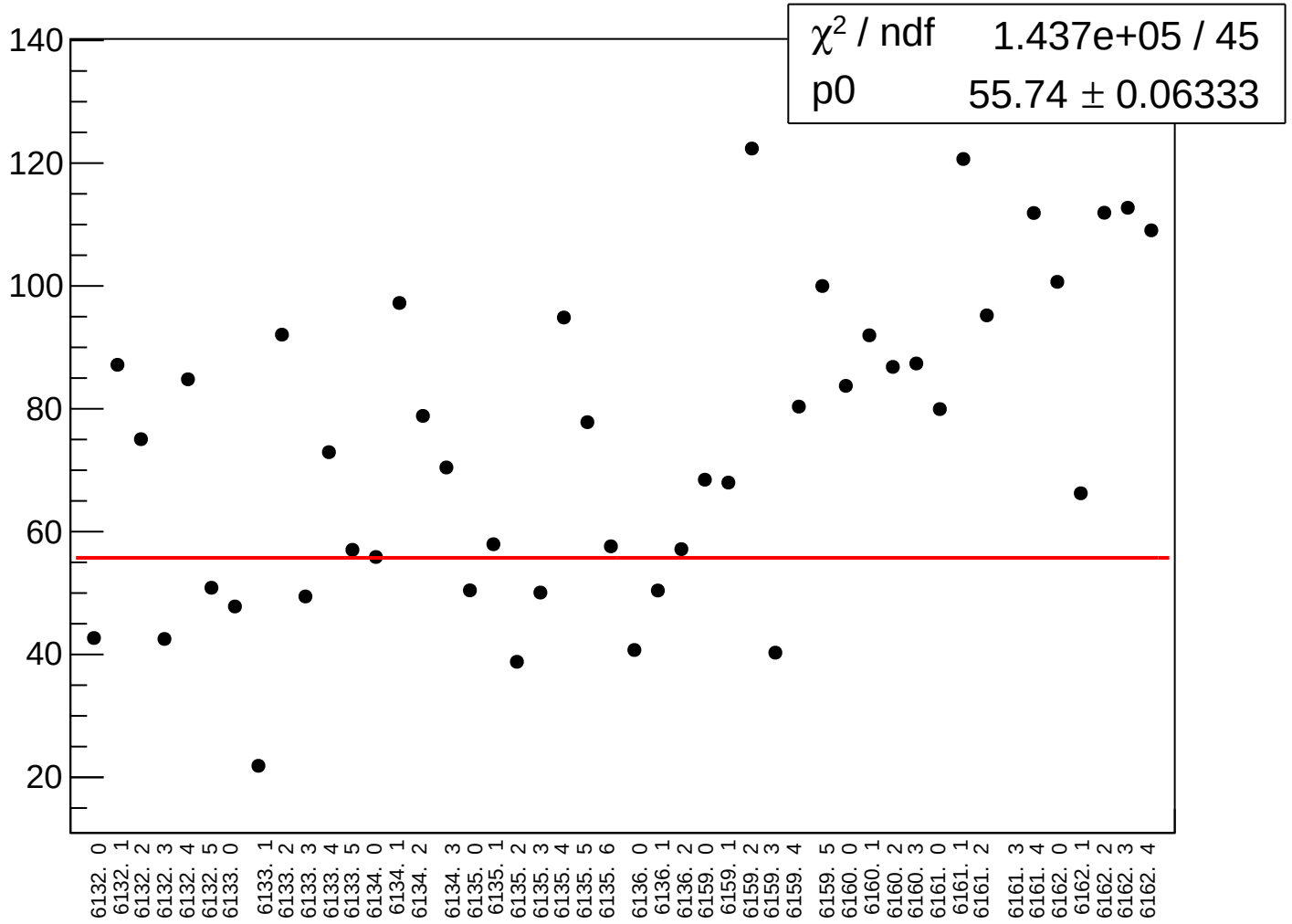

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.437e+05 / 45
p0 55.74 ± 0.06333
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 51.86 / 45
p0 7.395e−06 ± 8.163e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 76.63
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 46
Mean −0.07497
Std Dev 1.059
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.182e+05 / 45
p0 0.005163 ± 5.772e−06
0.014
0.012
0.01
0.008
0.006
0.004
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 57.62 / 45
p0 0.06627 ± 0.08956
pull
Entries 46
Mean 38.65
Std Dev 0


pull1D
Entries 46
Mean 0.1213
Std Dev 1.113


asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.437e+05 / 45
p0 55.74 ± 0.06333
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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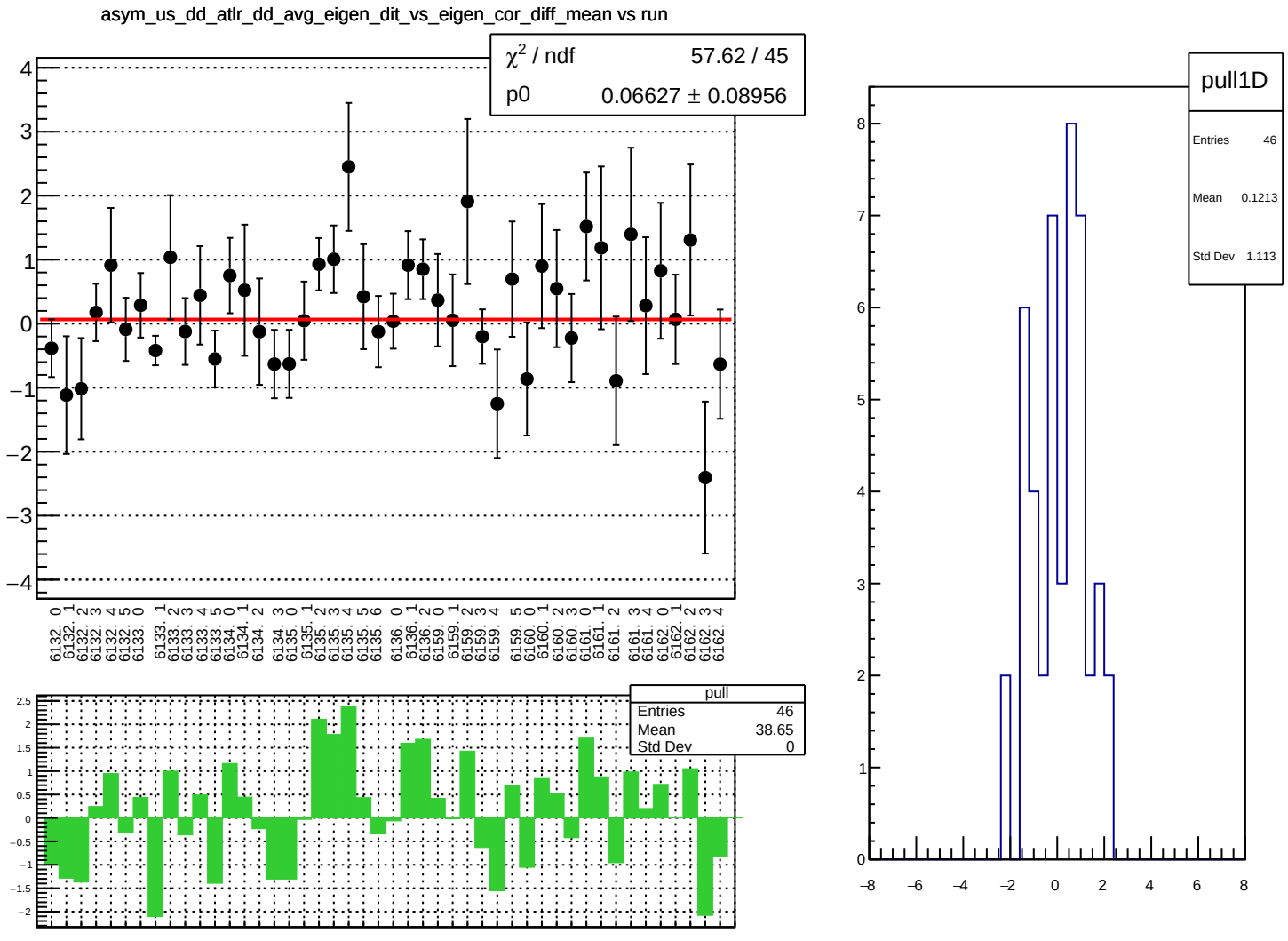
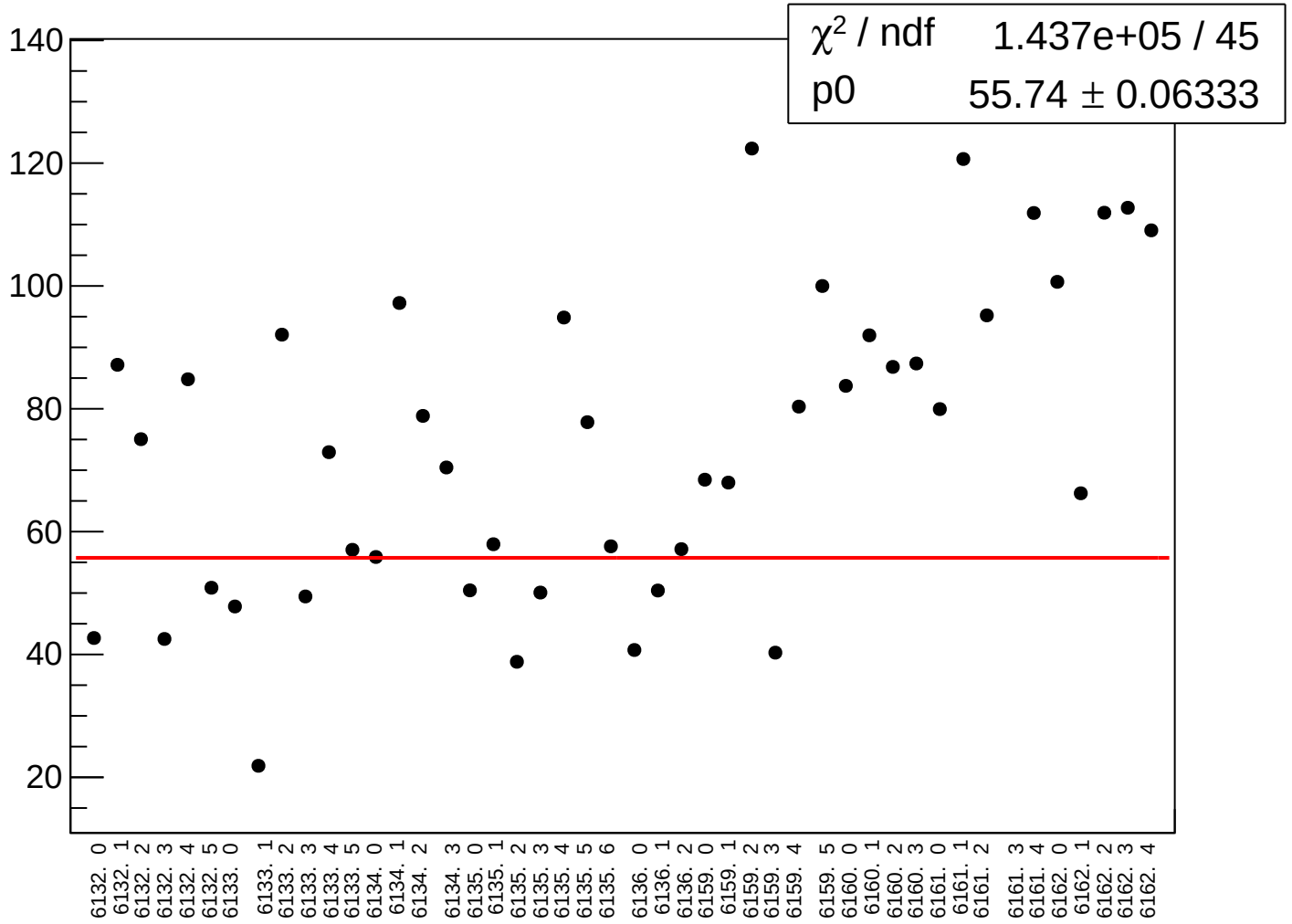
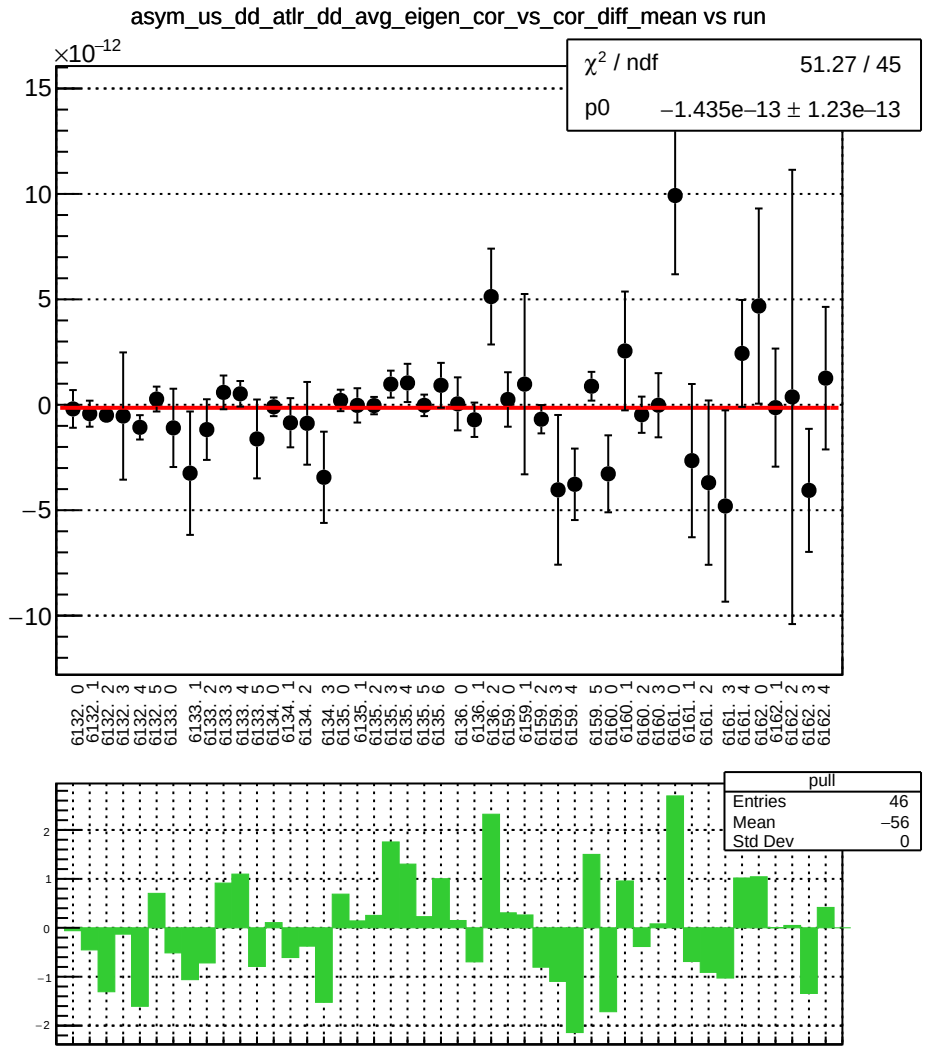
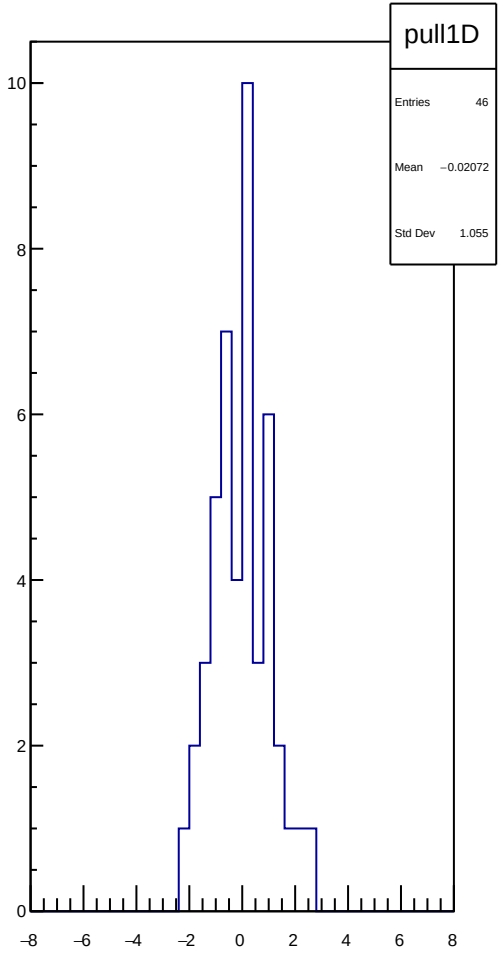
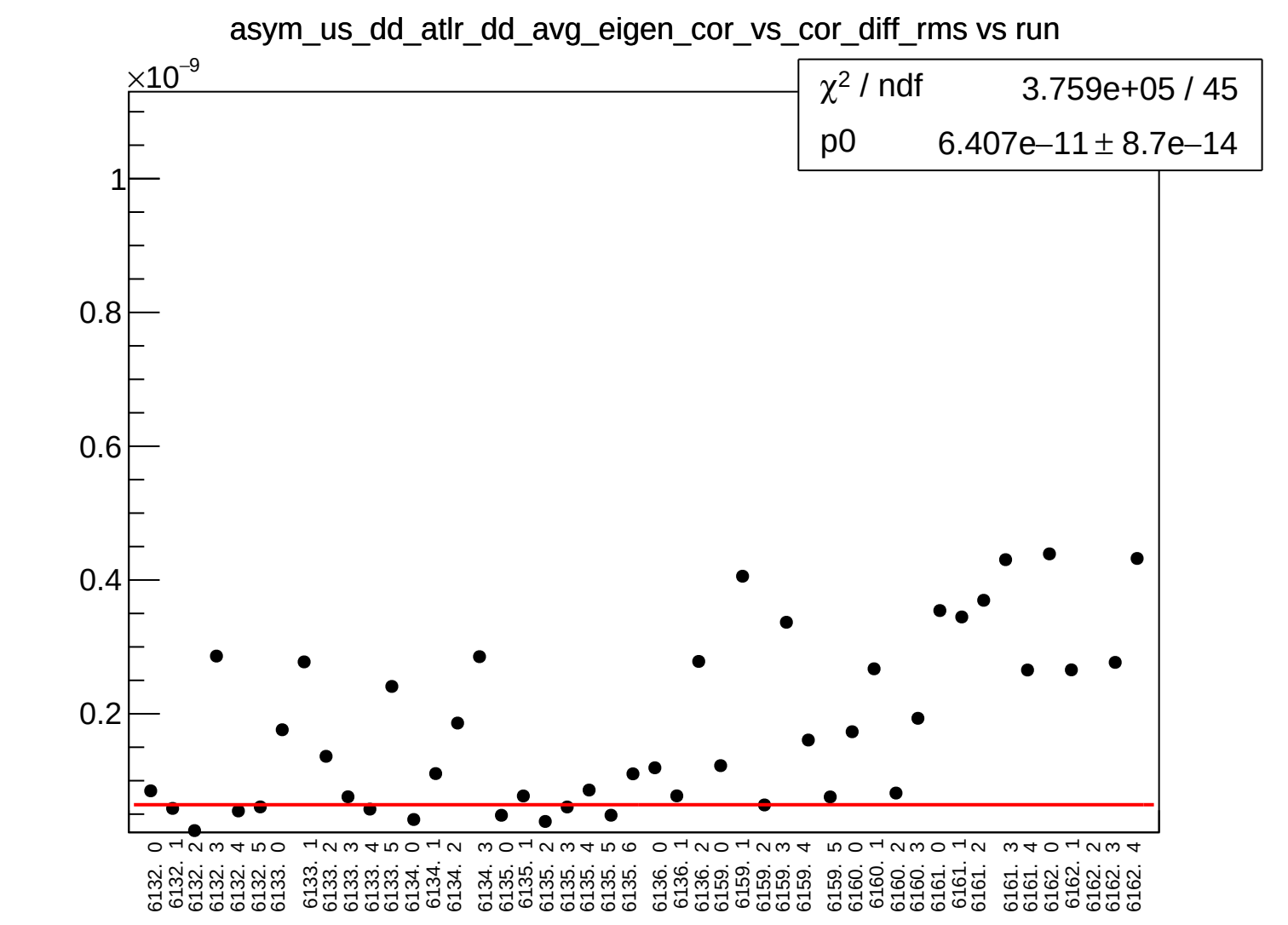
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

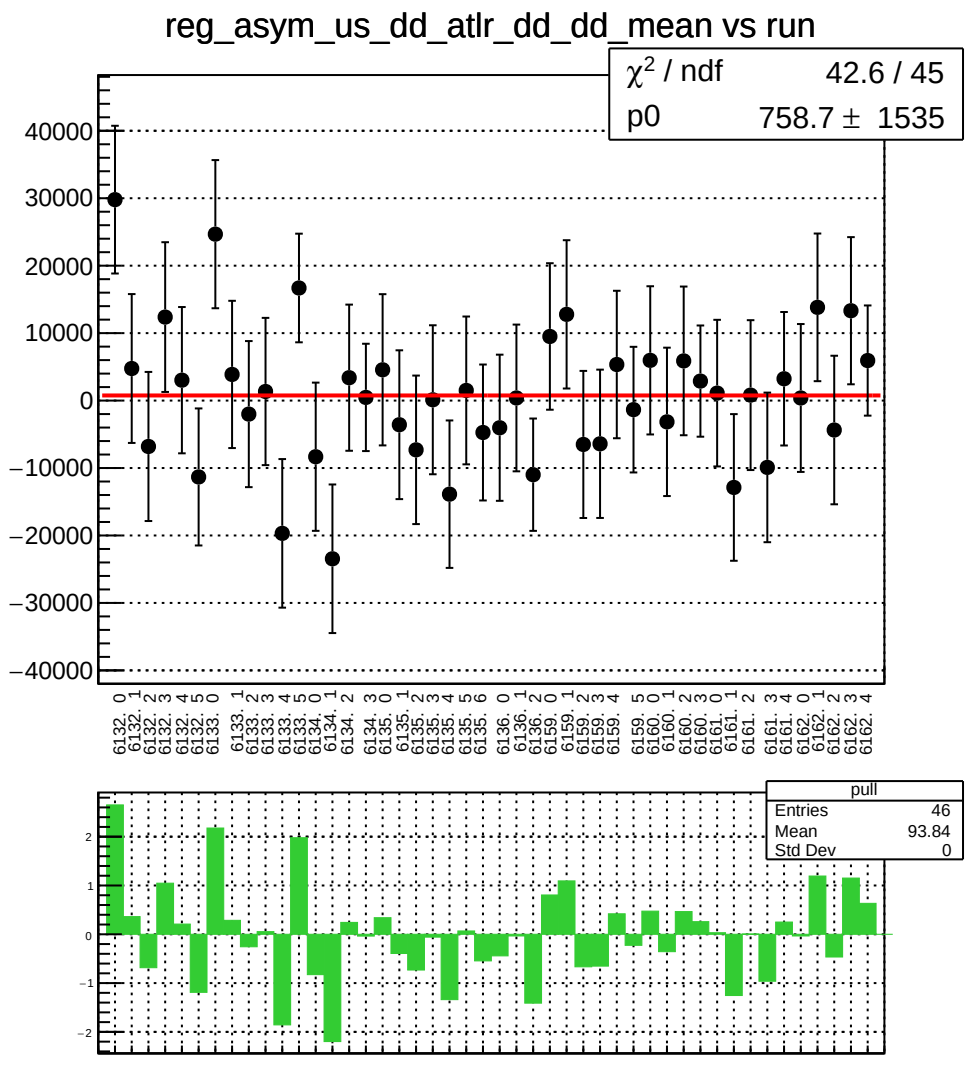

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.62 / 45
p0 0.06627 ± 0.08956
pull
Entries 46
Mean 38.65
Std Dev 0
pull1D
Entries 46
Mean 0.1213
Std Dev 1.113

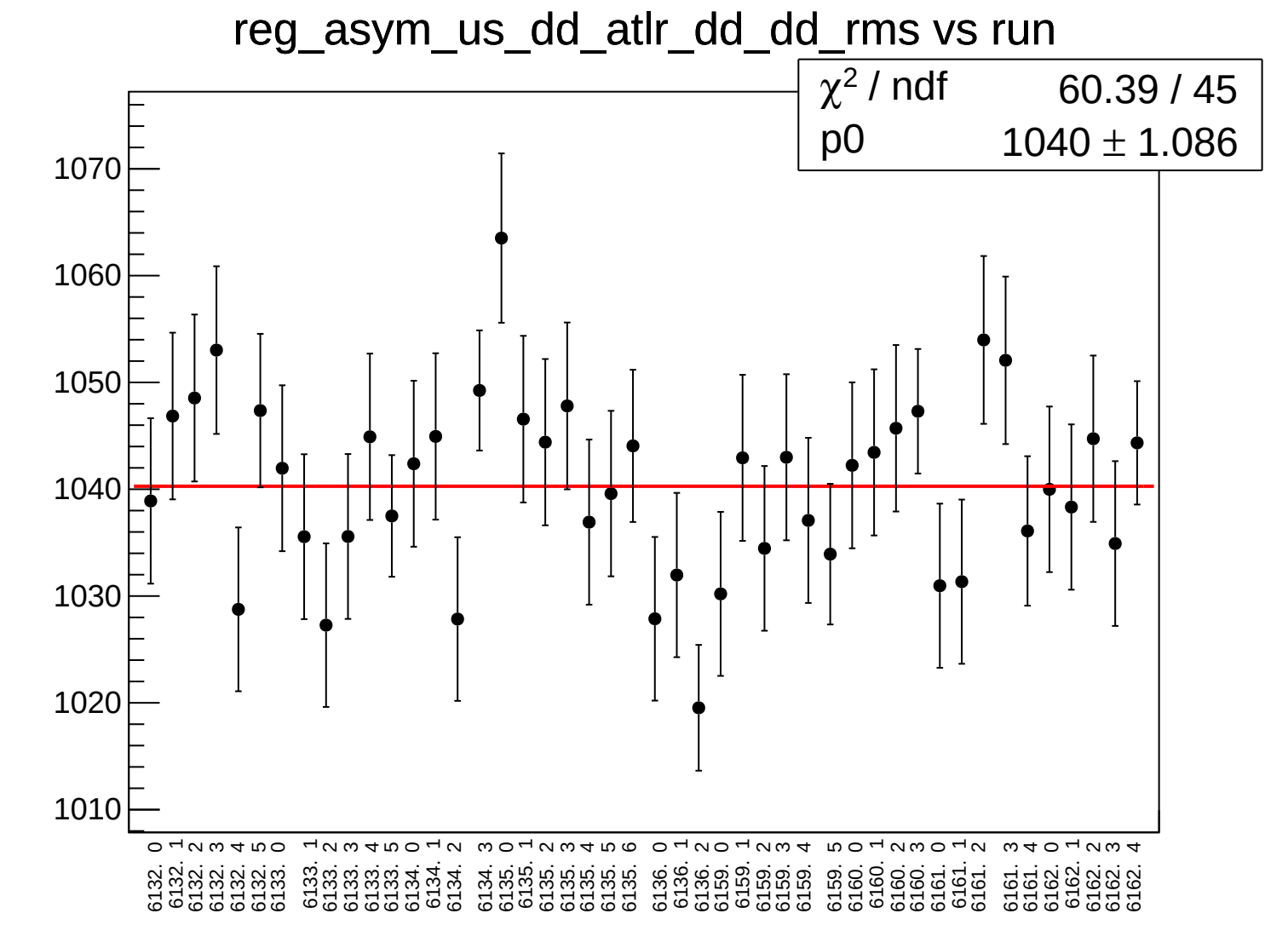

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.437e+05 / 45
p0 55.74 ± 0.06333
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

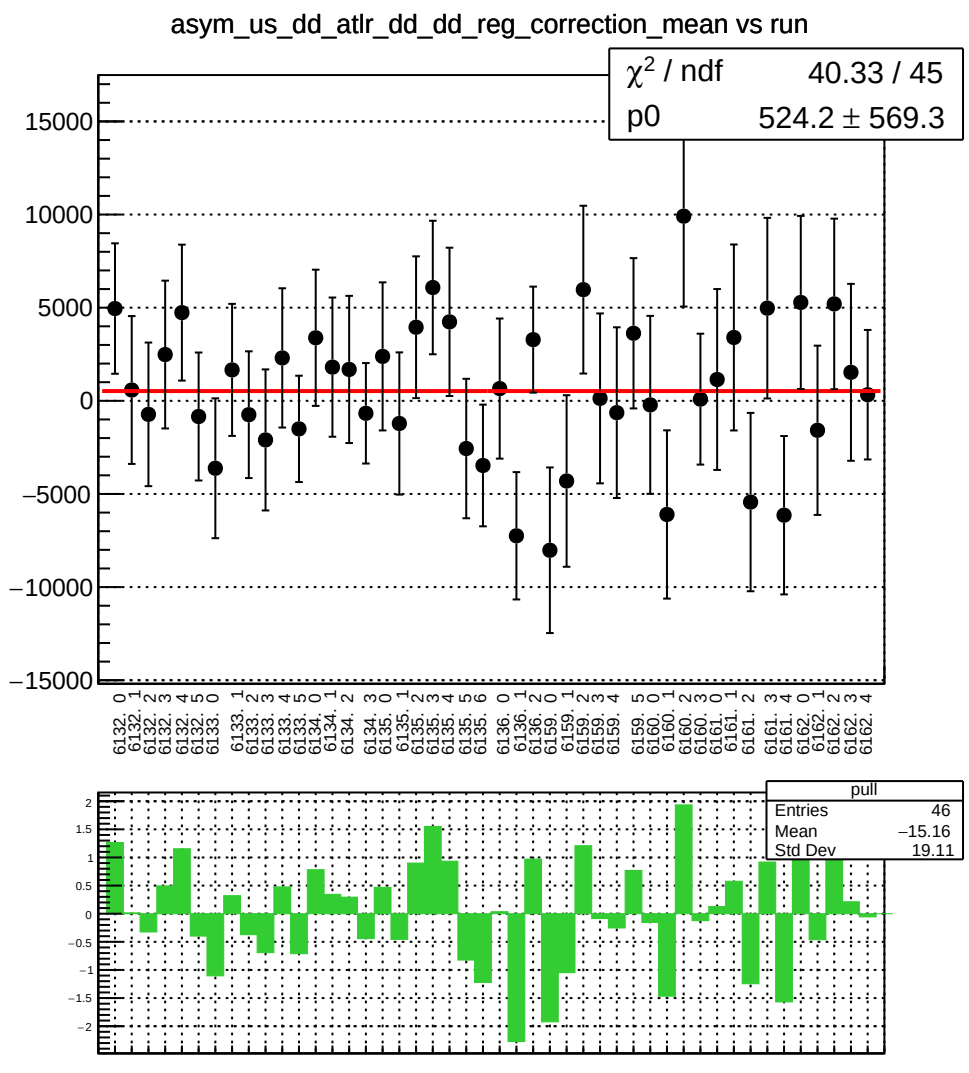

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 51.27 / 45
p0 −1.435e−13 ± 1.23e−13
15
10
5
0
−5
−10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −56
Std Dev 0
2
1
0
−1
−2

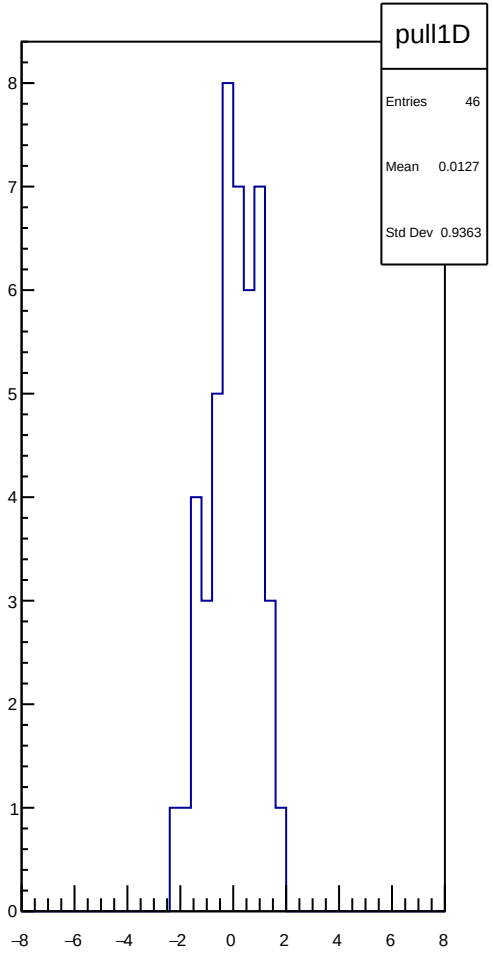

pull1D
Entries 46
Mean −0.02072
Std Dev 1.055
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

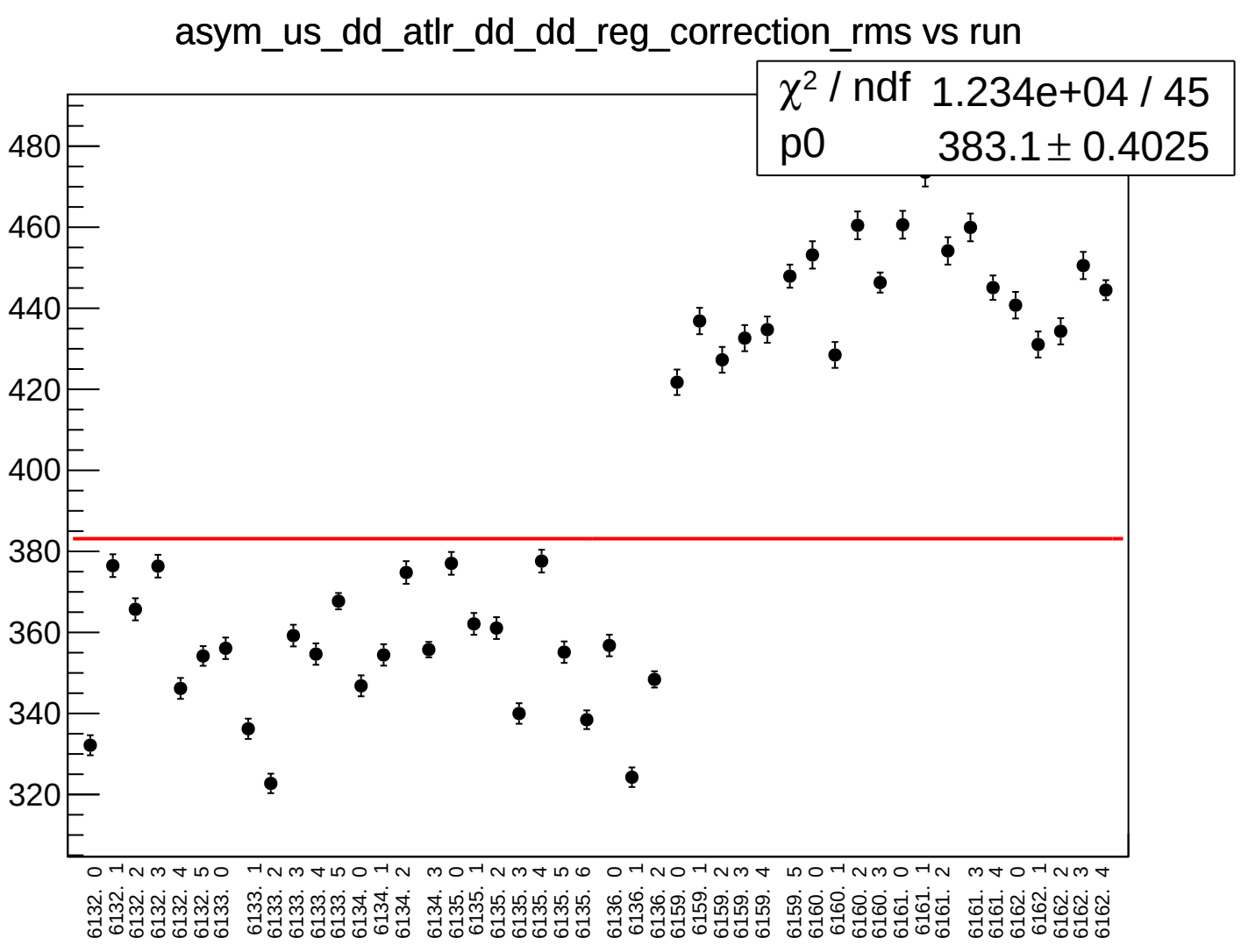

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.759e+05 / 45
p0 6.407e−11 ± 8.7e−14
1
0.8
0.6
0.4
0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 42.6 / 45
p0 758.7 ± 1535
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 93.84
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.009052
Std Dev 0.9623
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 60.39 / 45
p0 1040 ± 1.086
1070
1060
1050
1040
1030
1020
1010
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 40.33 / 45
p0 524.2 ± 569.3
15000
10000
5000
0
−5000
−10000
−15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −15.16
Std Dev 19.11
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.0127
Std Dev 0.9363
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.234e+04 / 45
p0 383.1 ± 0.4025
480
460
440
420
400
380
360
340
320
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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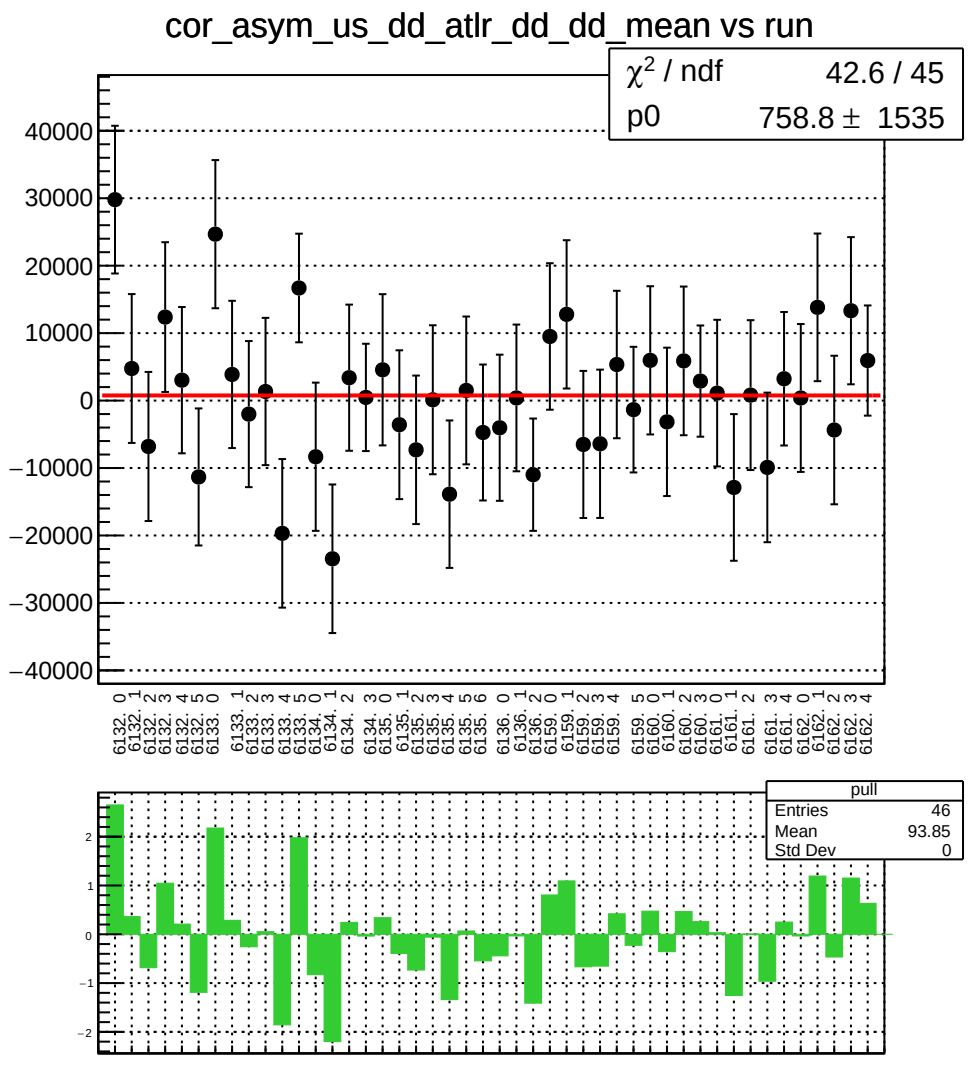
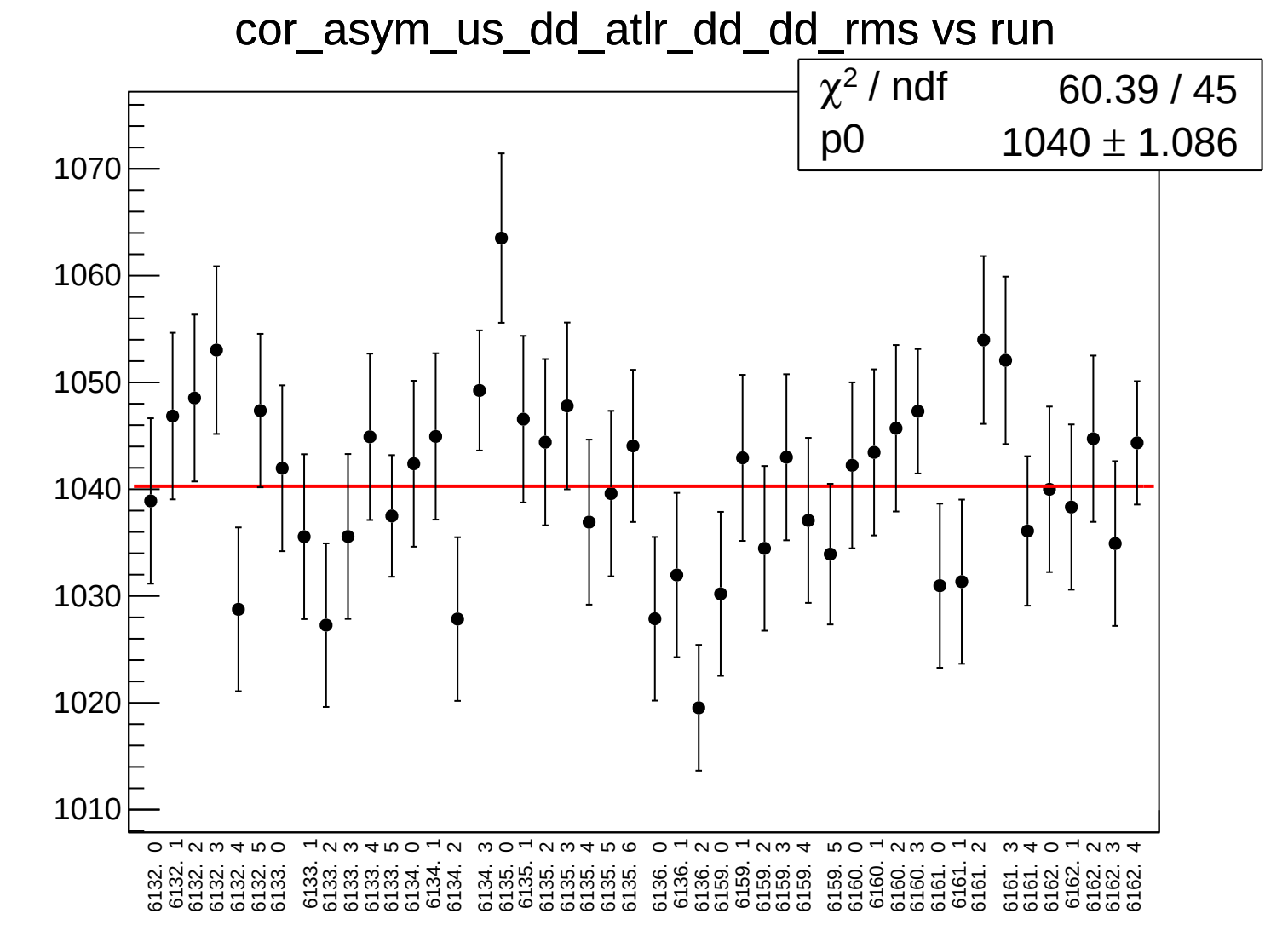
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 42.6 / 45
p0 758.8 ± 1535
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 93.85
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.009052
Std Dev 0.9623
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 60.39 / 45
p0 1040 ± 1.086
1070
1060
1050
1040
1030
1020
1010
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
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6134. 2
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6135. 6
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6159. 1
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6159. 3
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6159. 5
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6160. 1
6160. 2
6160. 3
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6161. 2
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6161. 4
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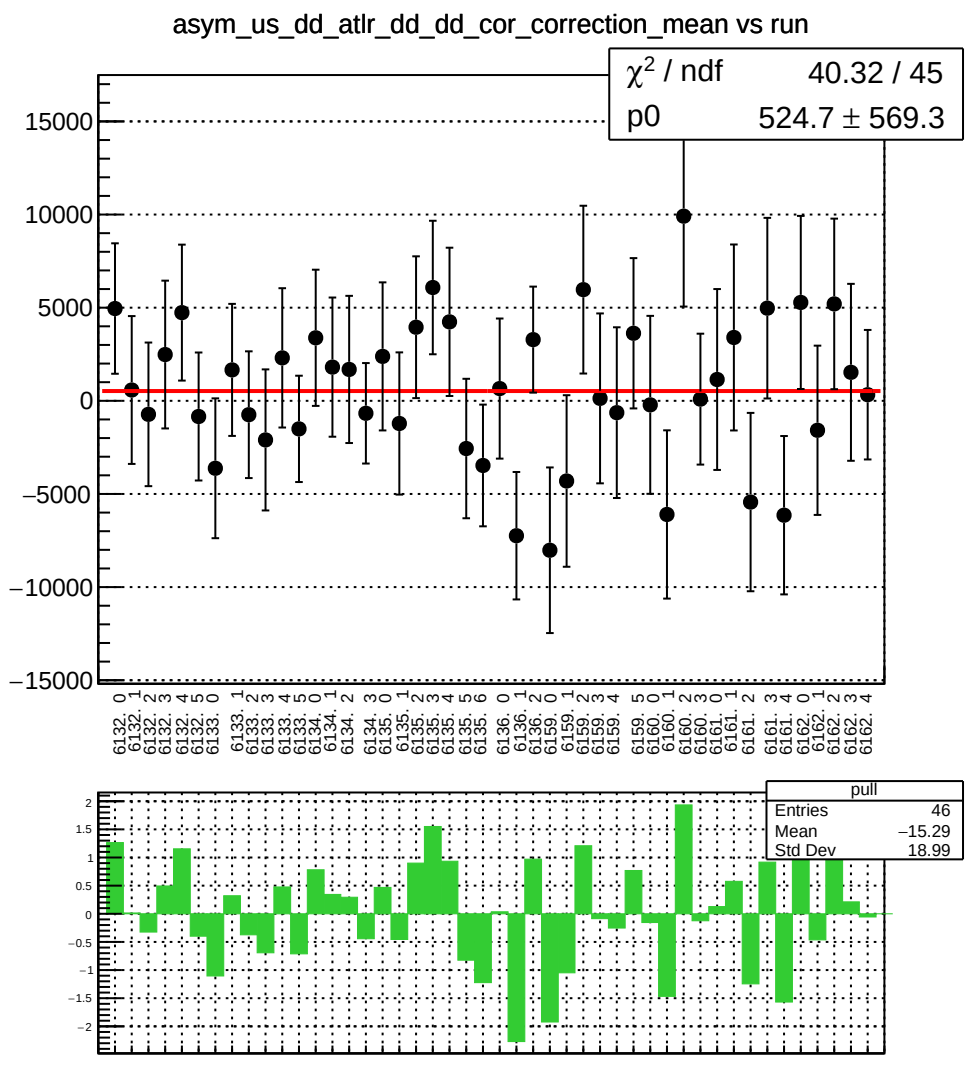
6162. 4


asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 40.32 / 45
p0 524.7 ± 569.3
15000
10000
5000
0
−5000
−10000
−15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
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6135. 1
6135. 2
6135. 3
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6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
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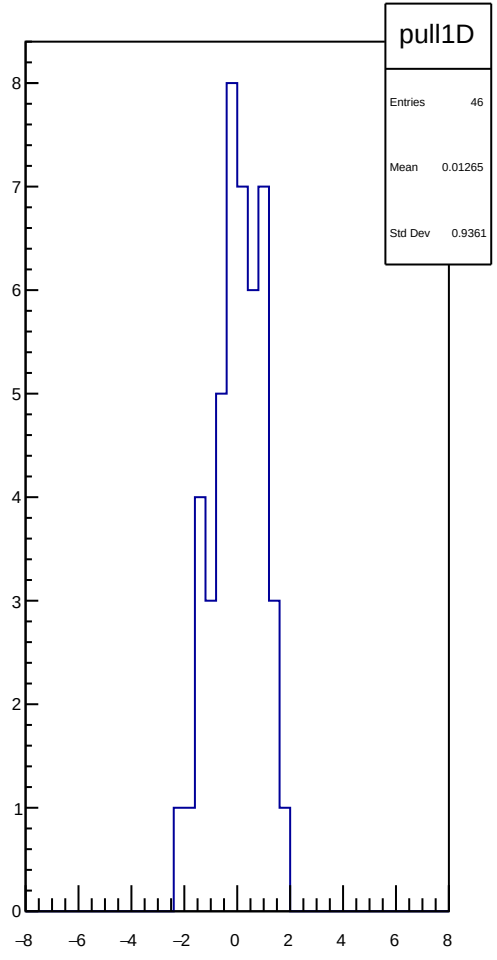
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −15.29
Std Dev 18.99
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.01265
Std Dev 0.9361
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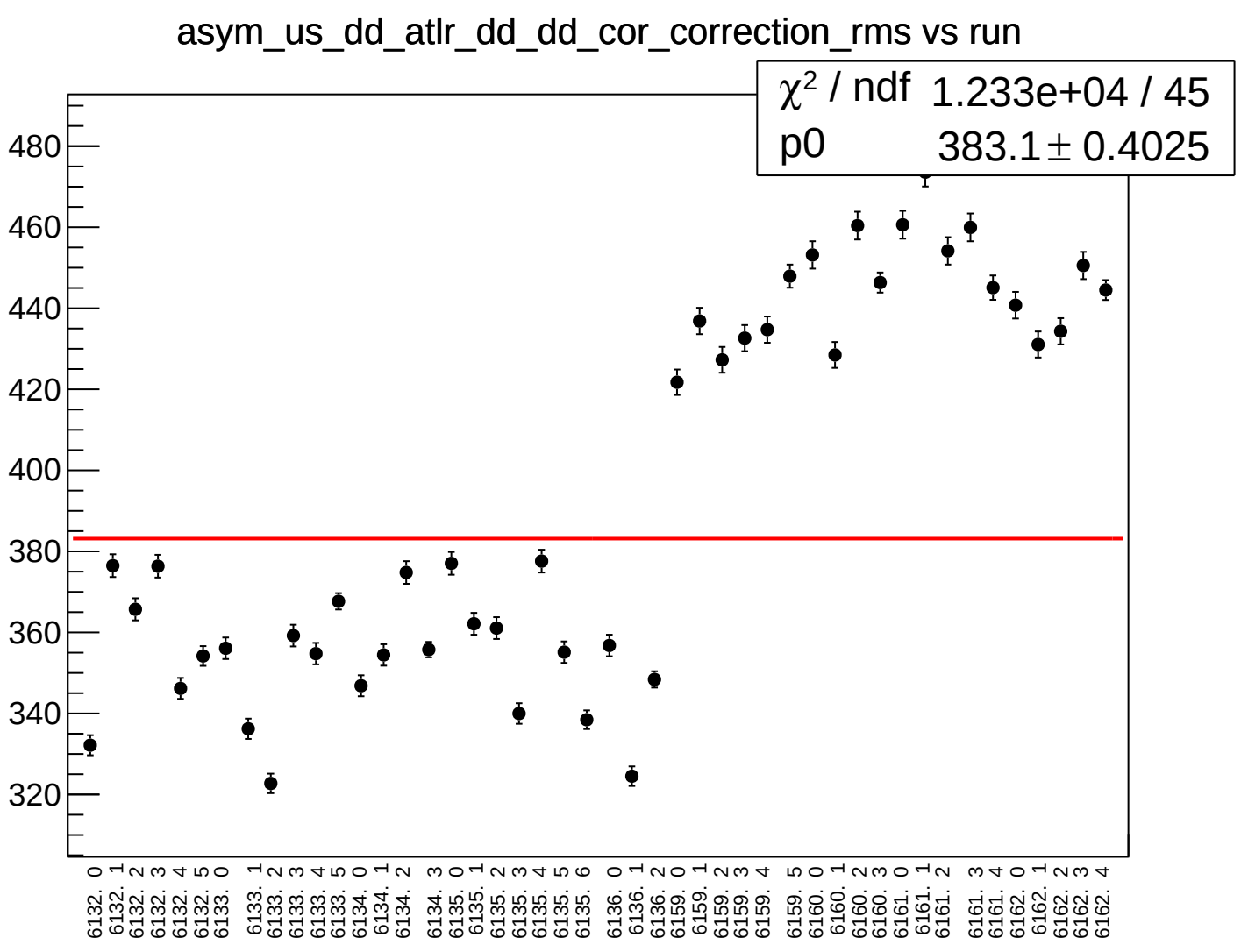
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.233e+04 / 45
p0 383.1 ± 0.4025
480
460
440
420
400
380
360
340
320
6132. 0
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6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
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6133. 5
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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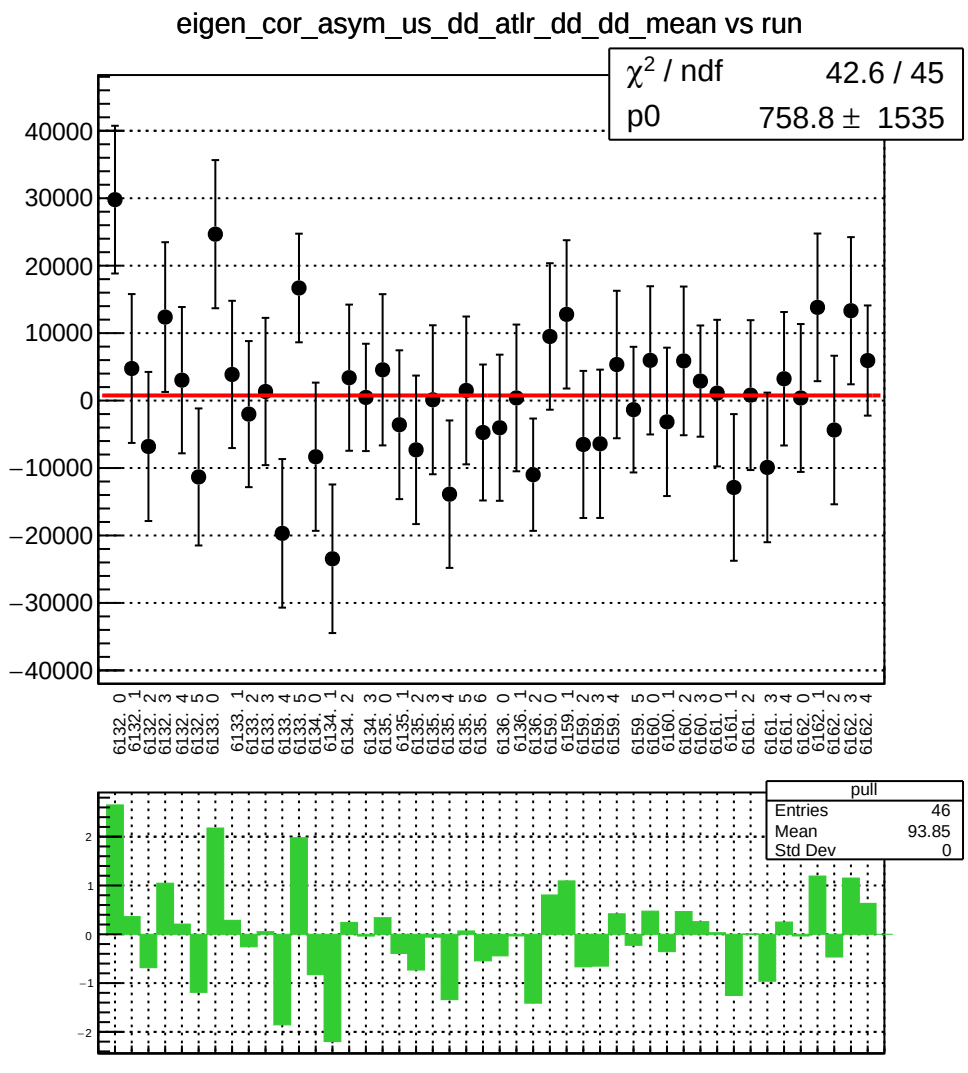
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 42.6 / 45
p0 758.8 ± 1535
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 0
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6135. 6
6136. 0
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6136. 2
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6159. 2
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6159. 4
6159. 5
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6160. 1
6160. 2
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6161. 0
6161. 1
6161. 2
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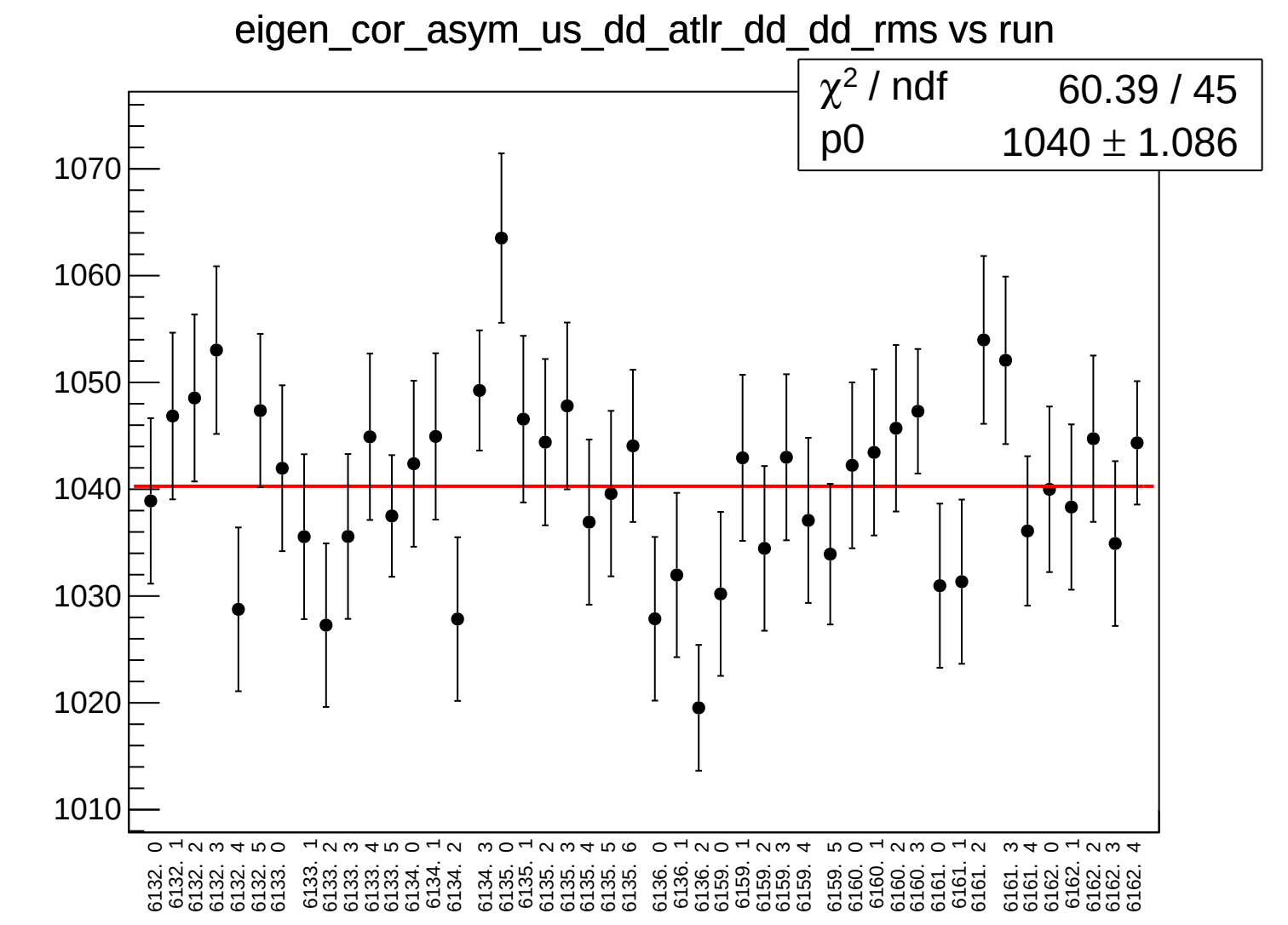
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 93.85
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.009052
Std Dev 0.9623
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 60.39 / 45
p0 1040 ± 1.086
1070
1060
1050
1040
1030
1020
1010
6132. 0
6132. 1
6132. 2
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6160. 1
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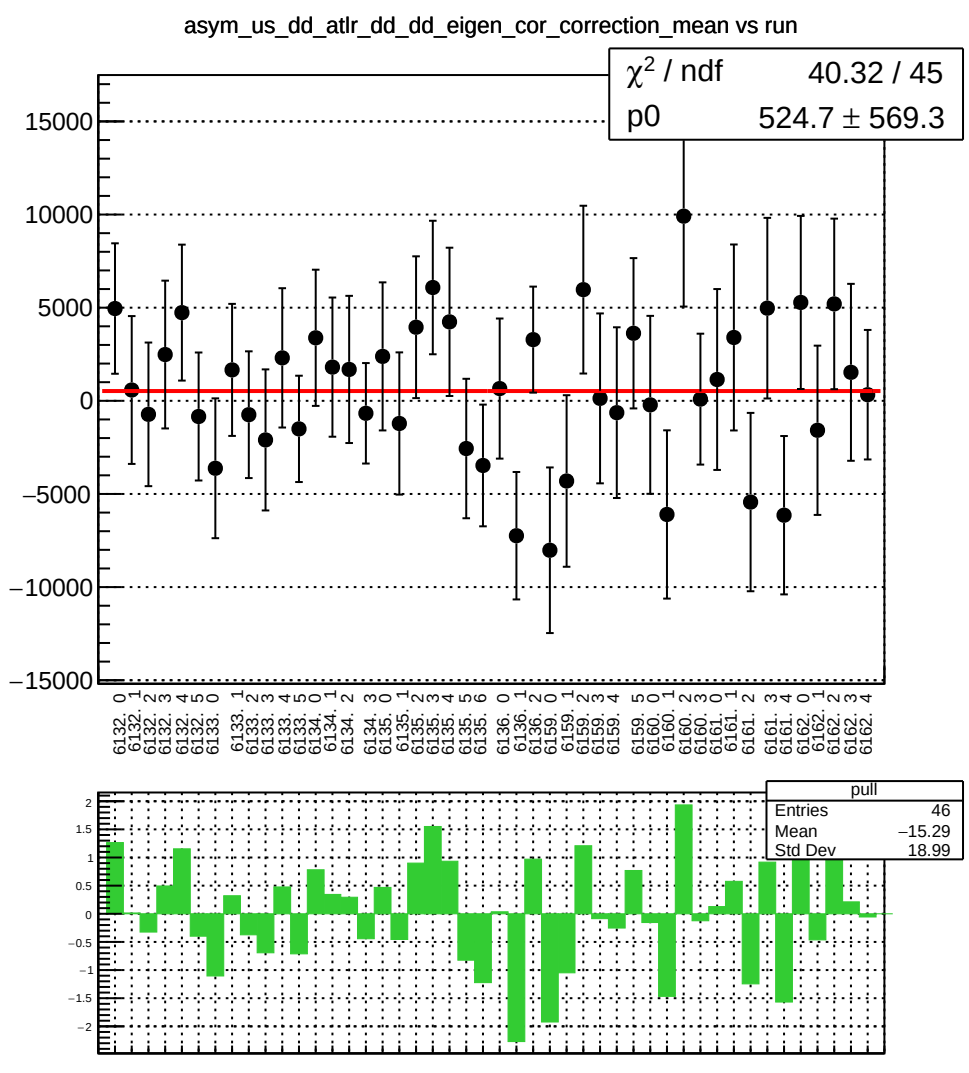
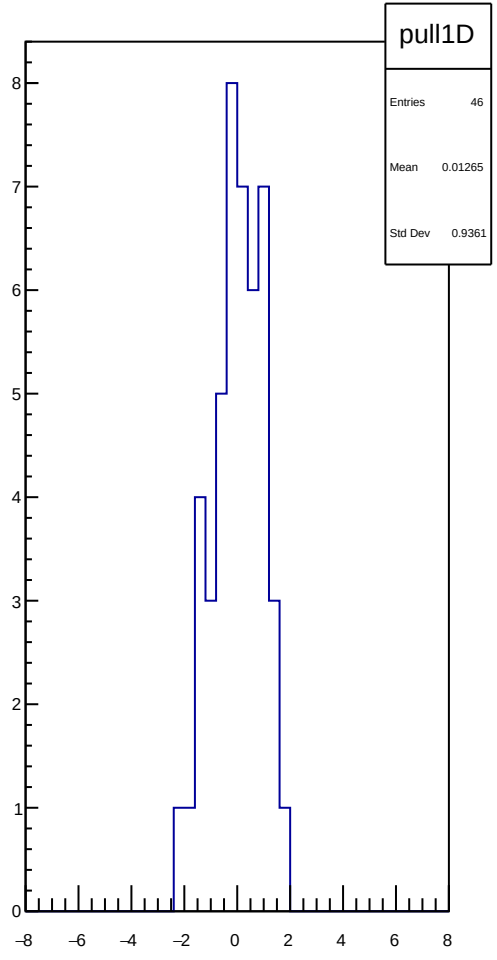
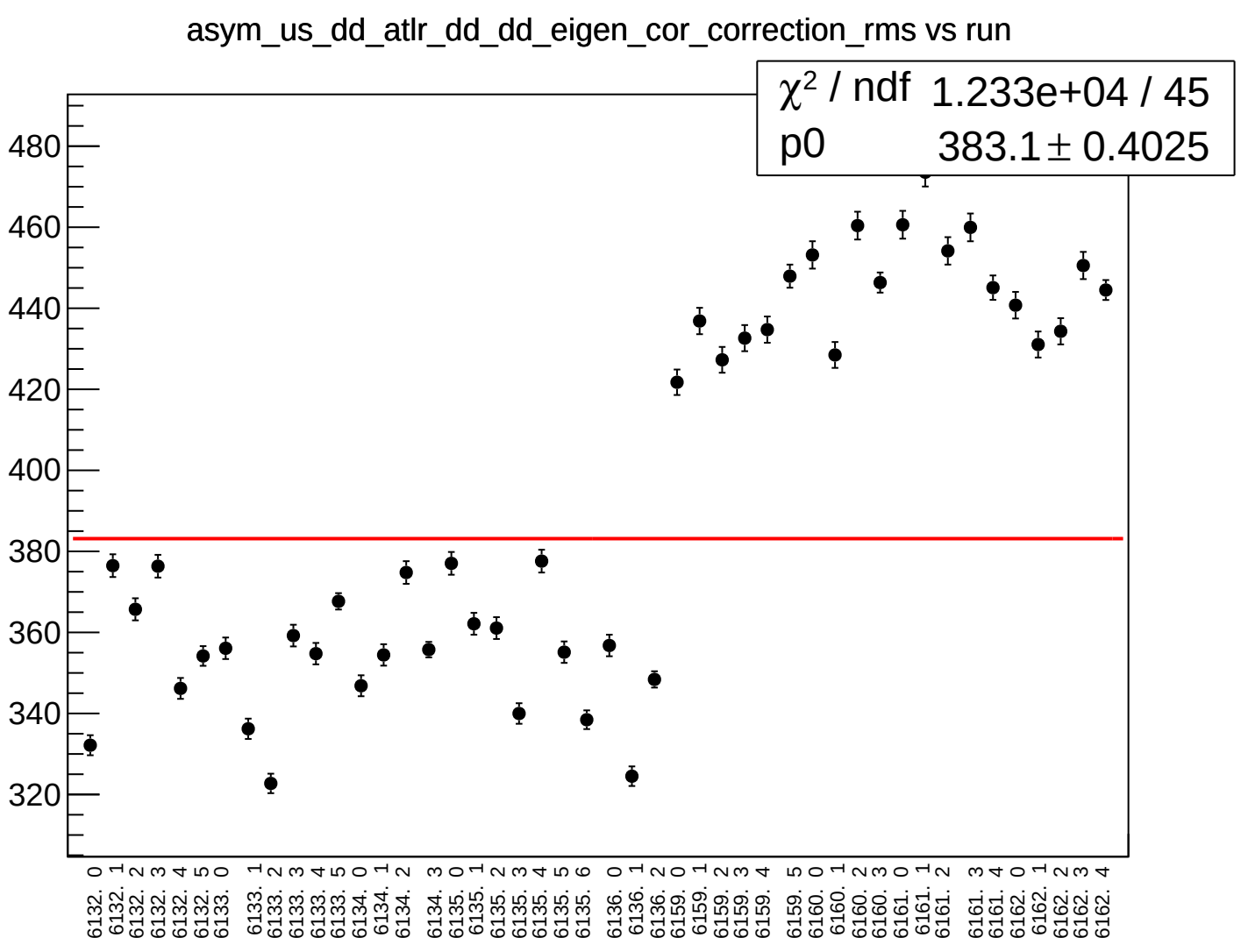
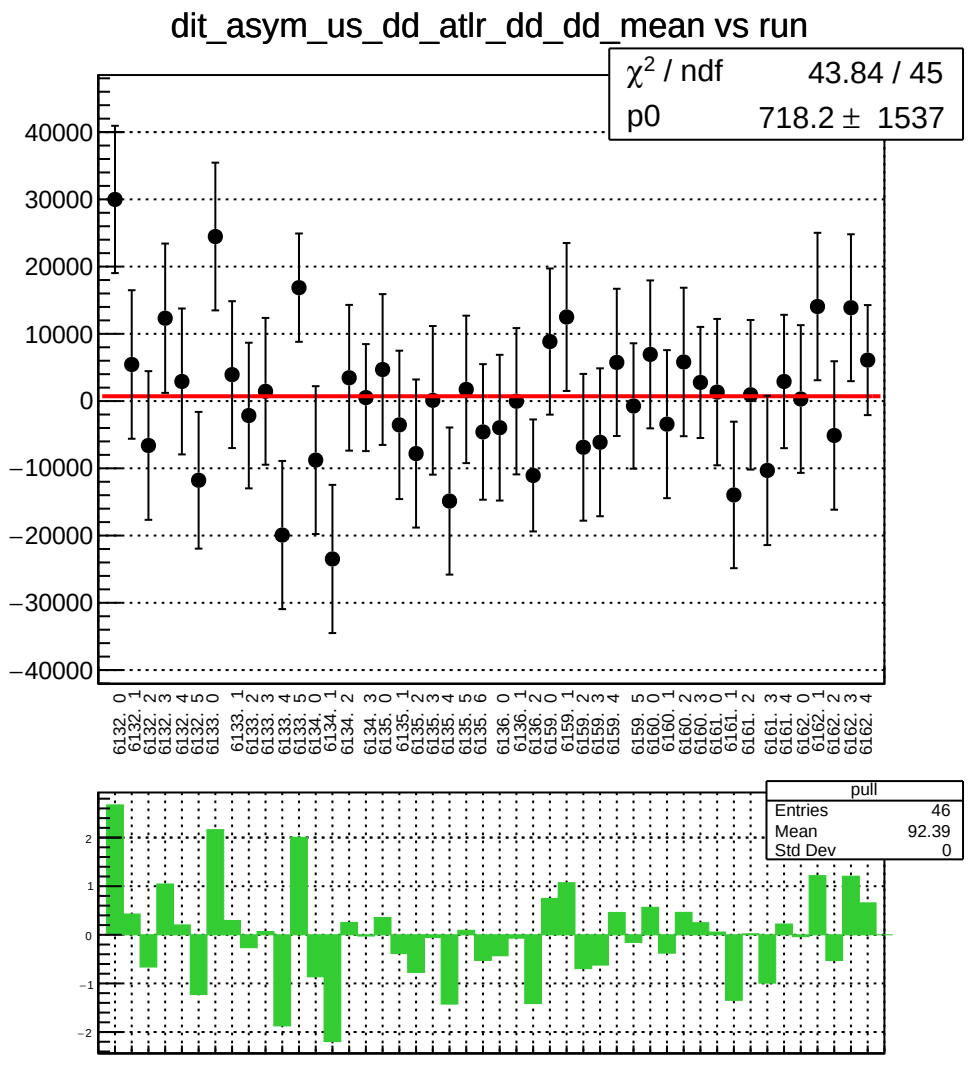
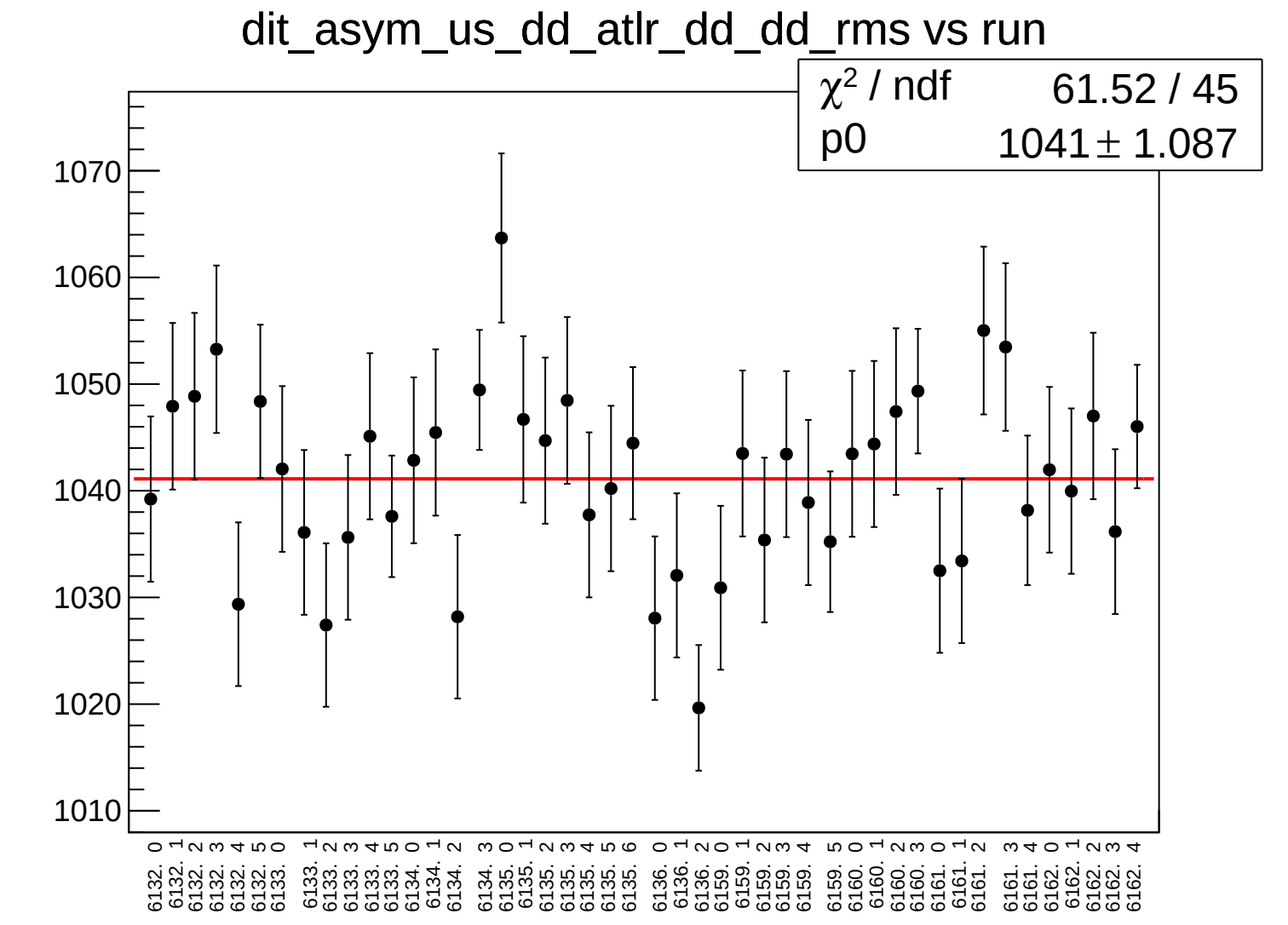
6162. 2
6162. 3
6162. 4

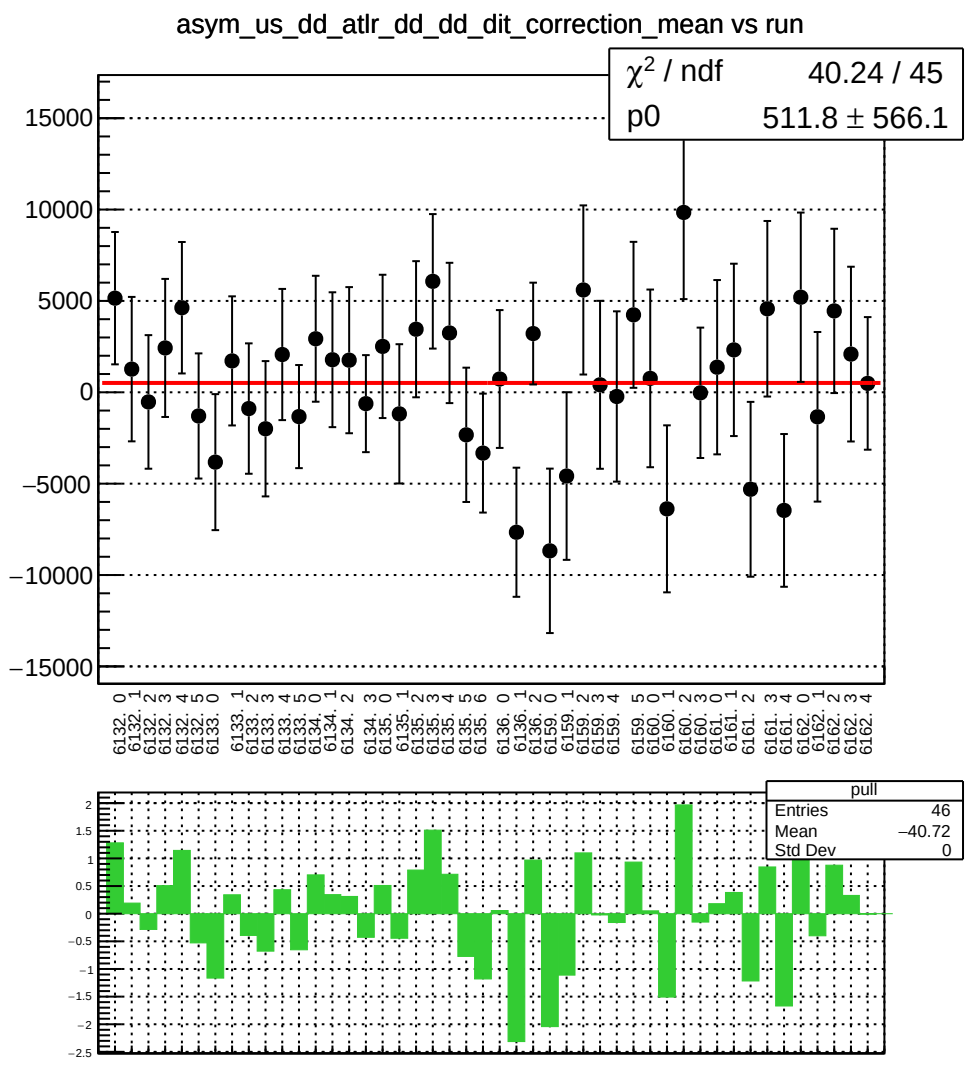

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 40.32 / 45
p0 524.7 ± 569.3
15000
10000
5000
0
−5000
−10000
−15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −15.29
Std Dev 18.99
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

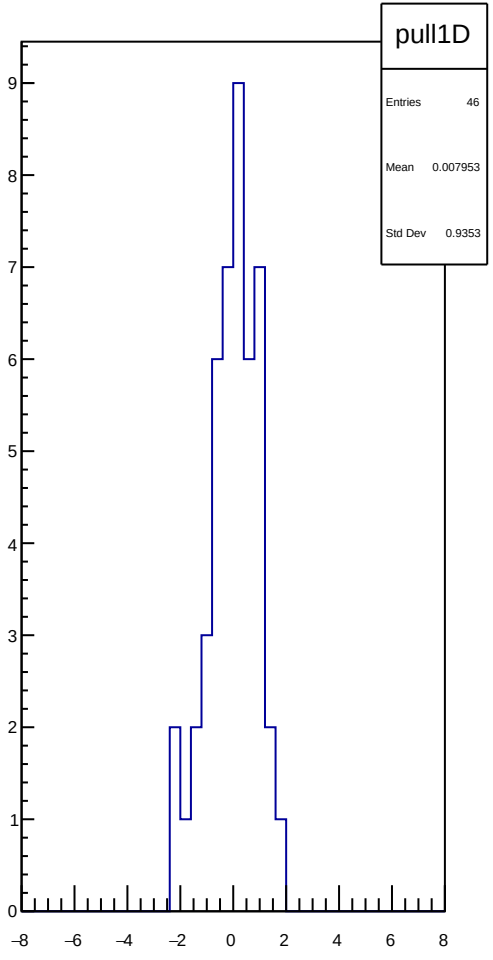

pull1D
Entries 46
Mean 0.01265
Std Dev 0.9361
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

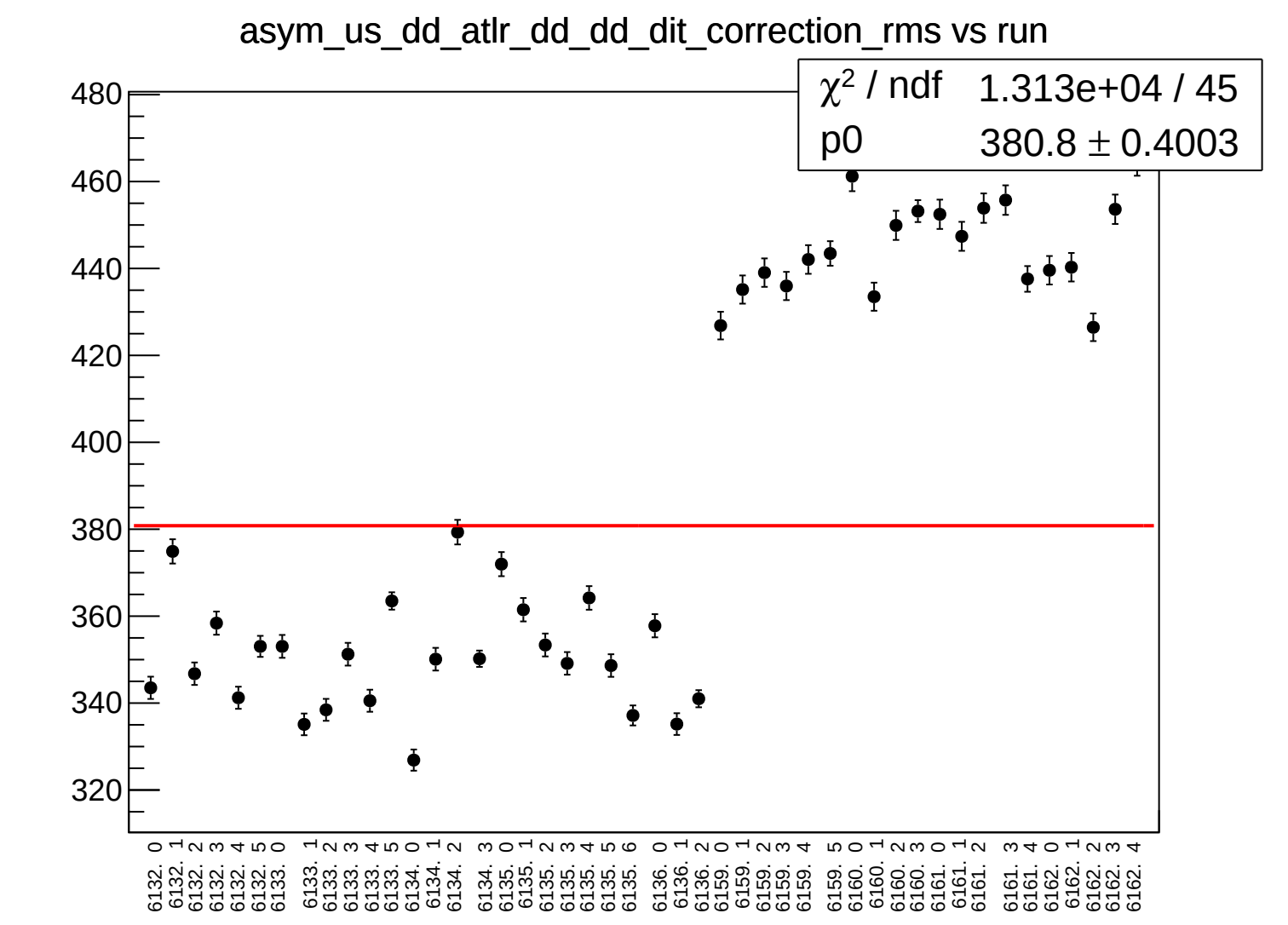

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.233e+04 / 45
p0 383.1 ± 0.4025
480
460
440
420
400
380
360
340
320
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

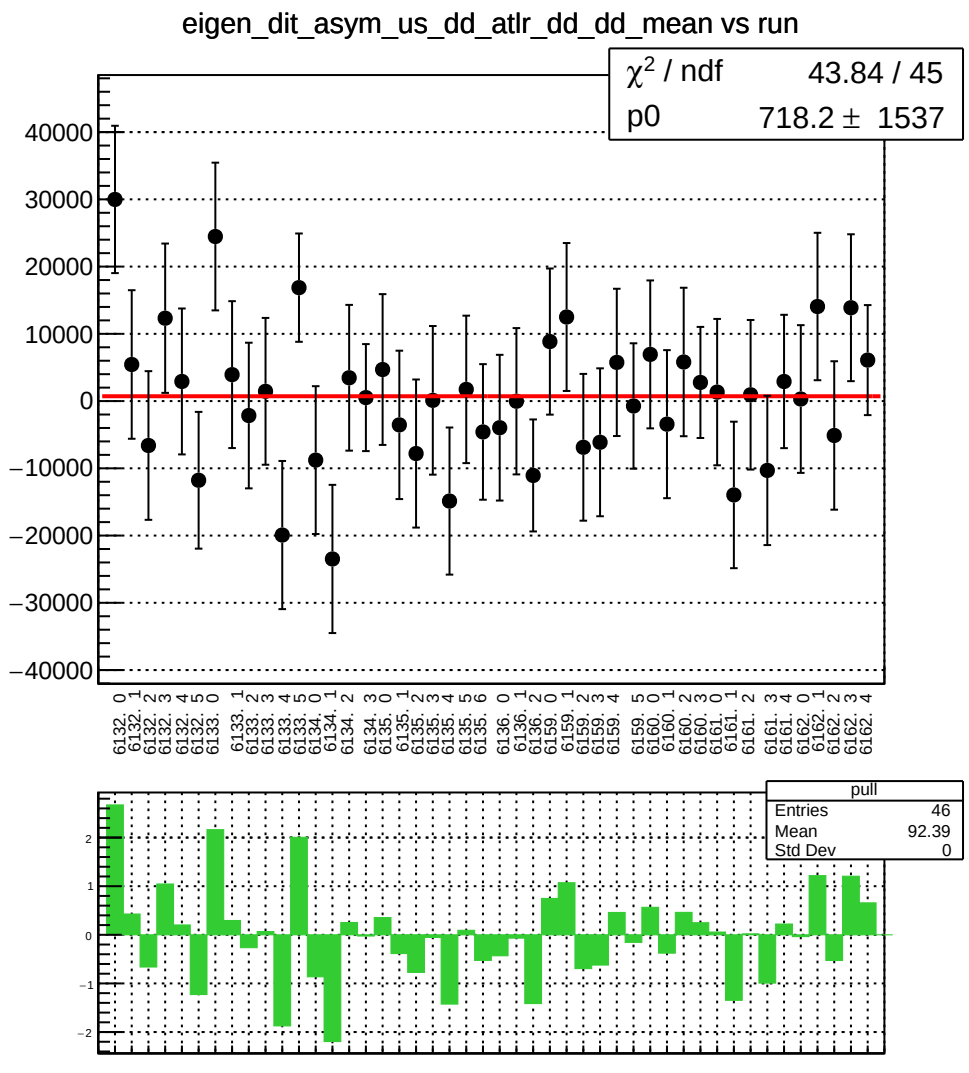

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 43.84 / 45
p0 718.2 ± 1537
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 92.39
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.009575
Std Dev 0.9762
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

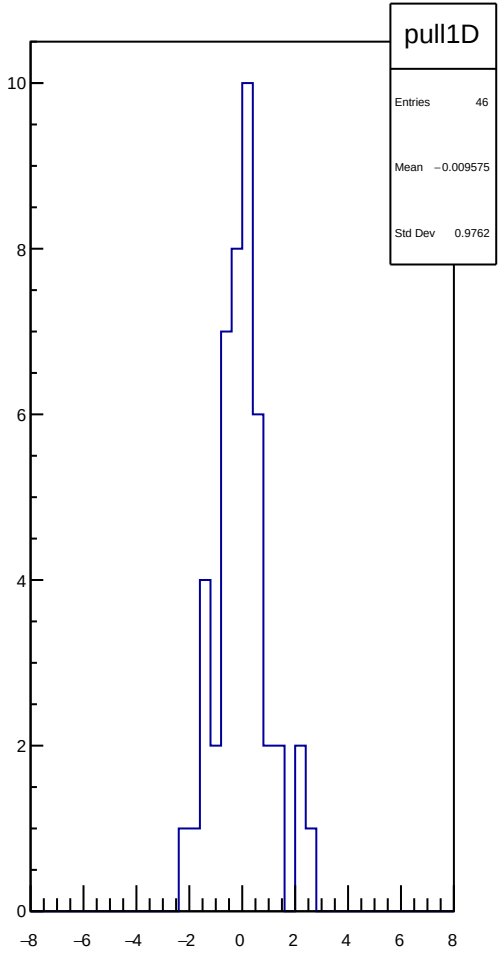

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 61.52 / 45
p0 1041 ± 1.087
1070
1060
1050
1040
1030
1020
1010
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

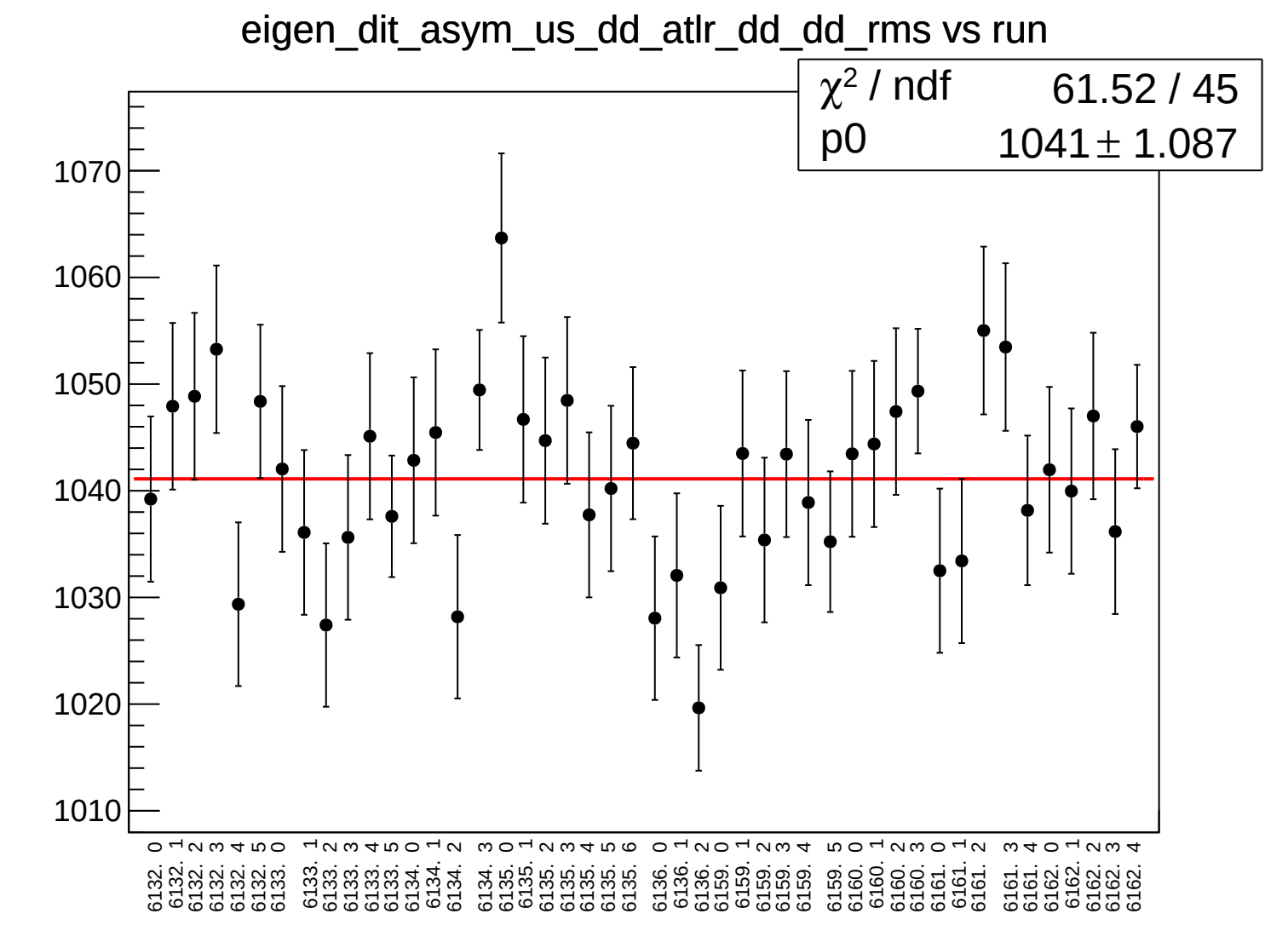

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 40.24 / 45
p0 511.8 ± 566.1
15000
10000
5000
0
−5000
−10000
−15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −40.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

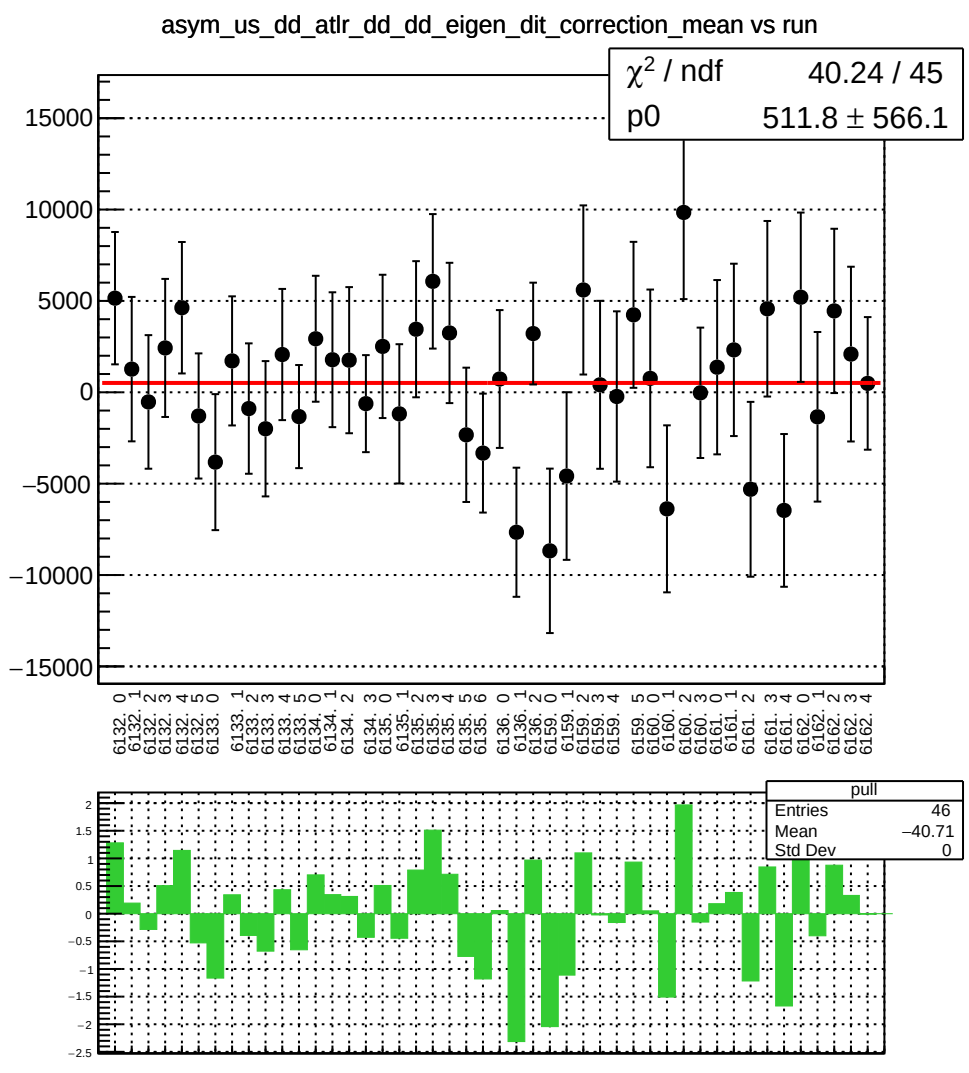

pull1D
Entries 46
Mean 0.007953
Std Dev 0.9353
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

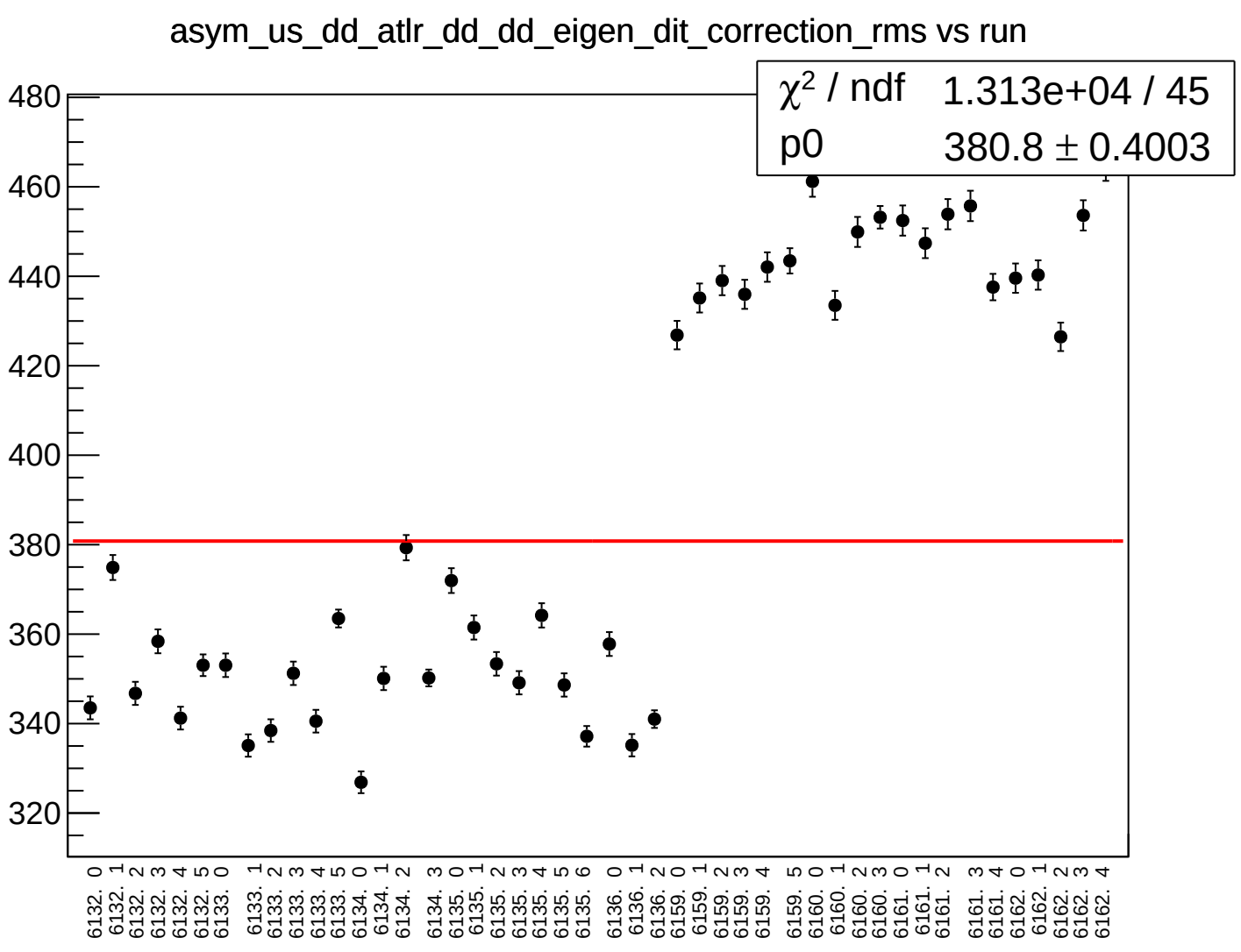

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.313e+04 / 45
p0 380.8 ± 0.4003
480
460
440
420
400
380
360
340
320
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

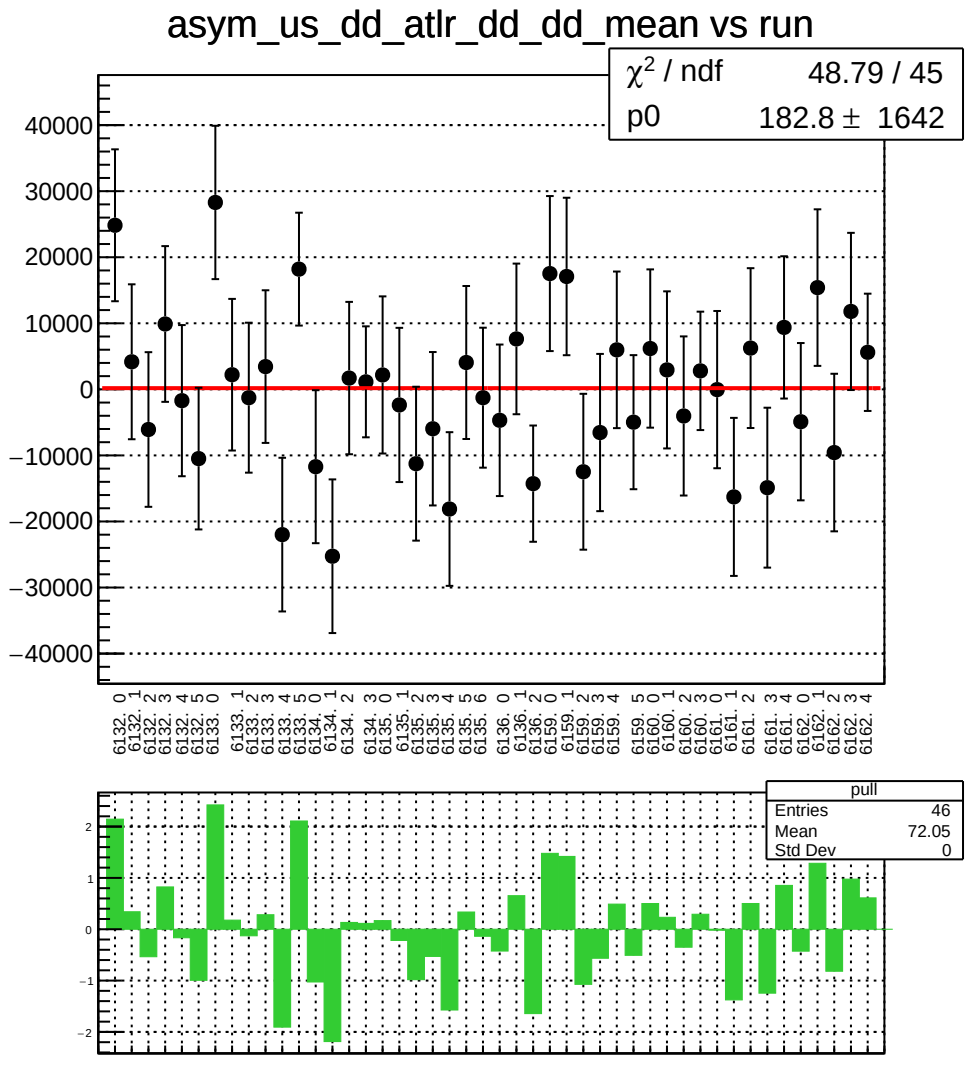

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ^2 / ndf 43.84 / 45
p0 718.2 ± 1537
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 92.39
Std Dev 0
2
1
0
−1
−2

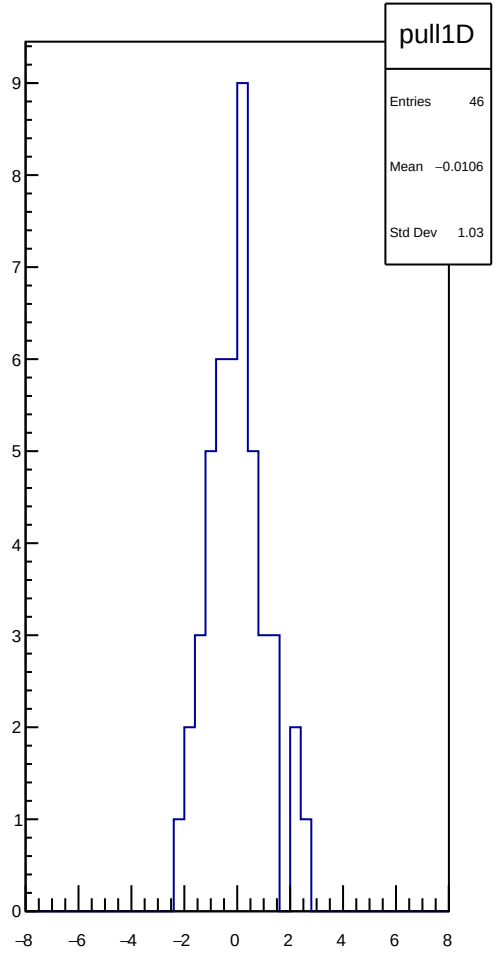

pull1D
Entries 46
Mean −0.009575
Std Dev 0.9762
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

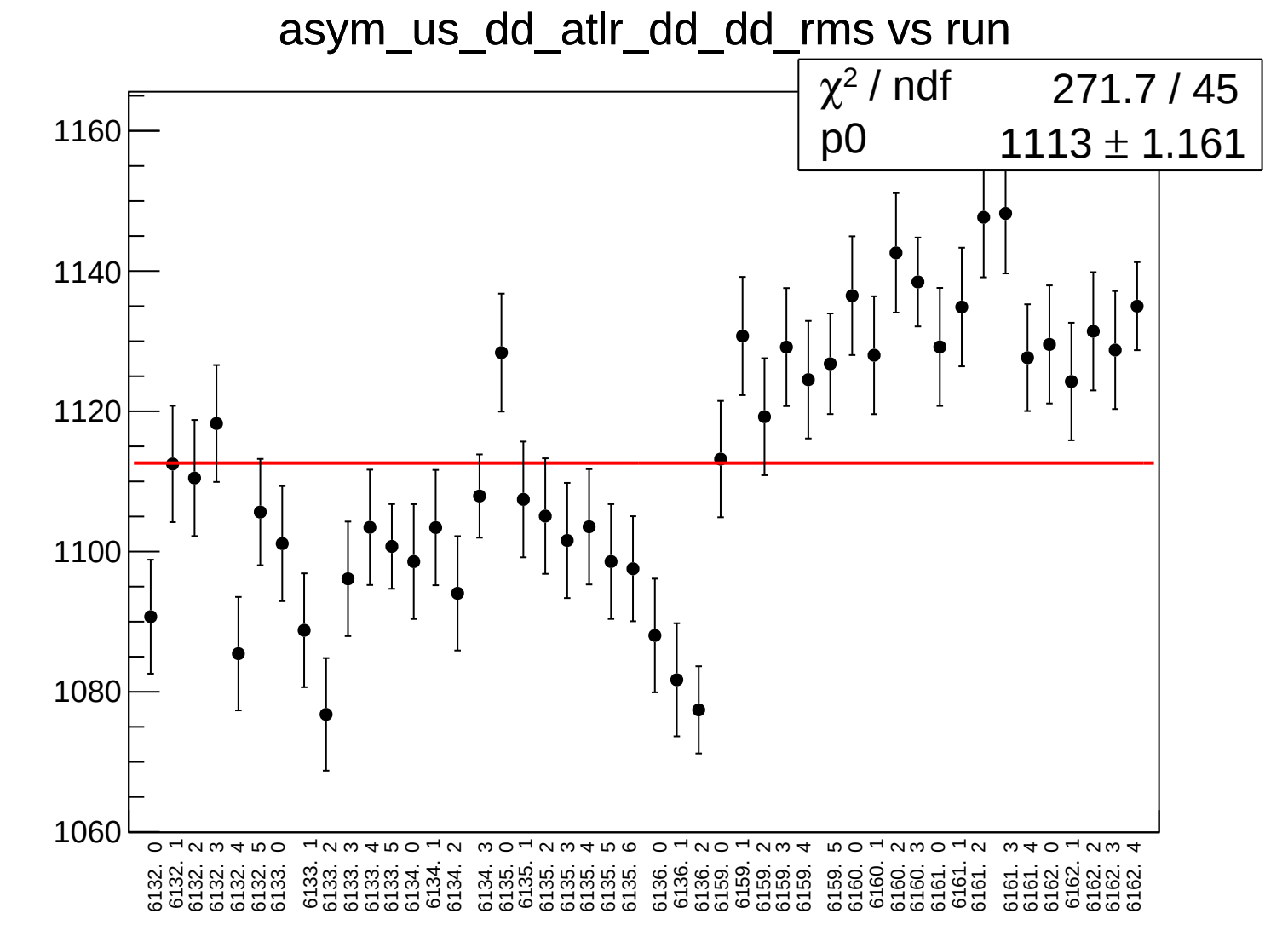

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 61.52 / 45
p0 1041 ± 1.087
1070
1060
1050
1040
1030
1020
1010
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

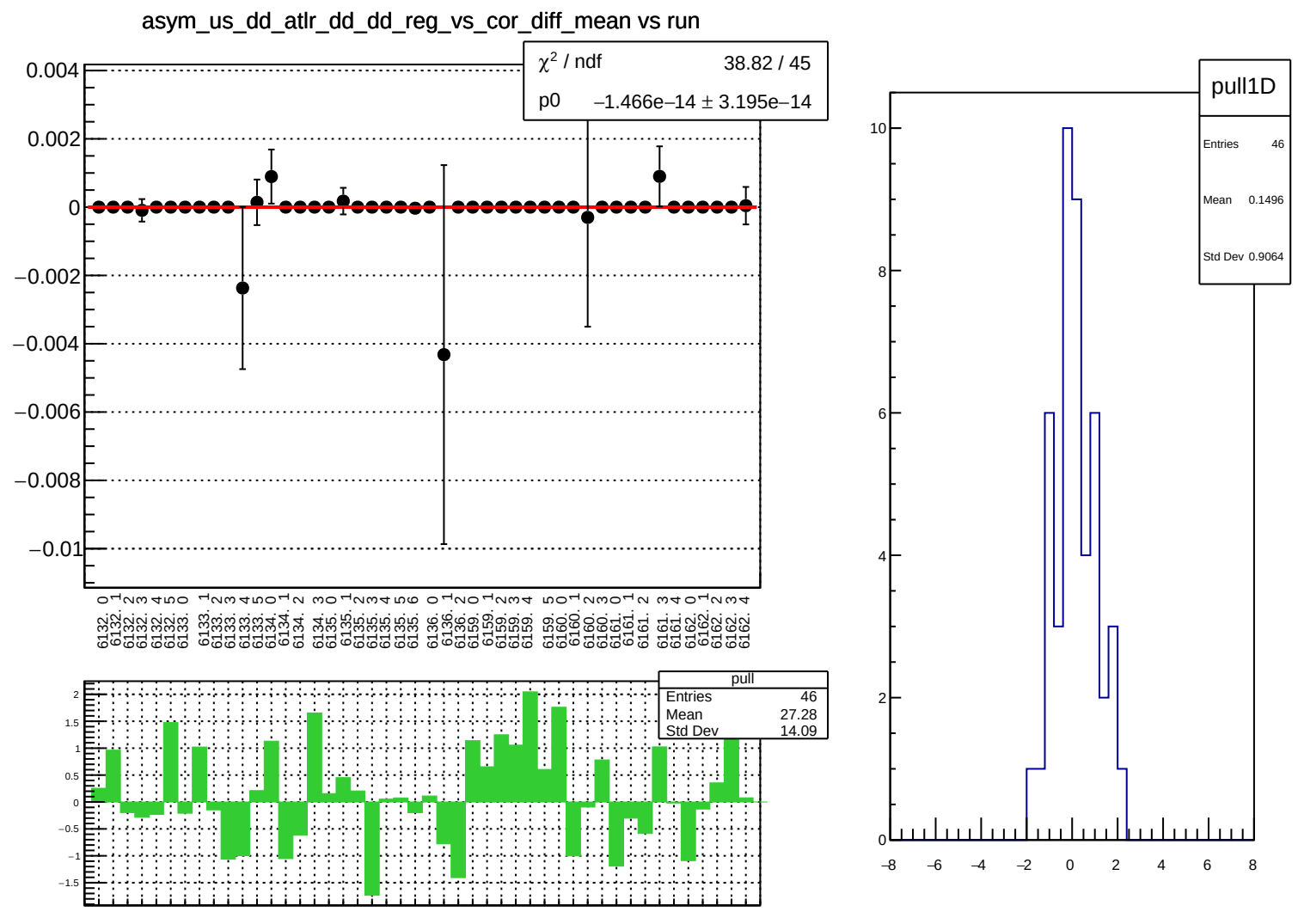

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 40.24 / 45
p0 511.8 ± 566.1
15000
10000
5000
0
−5000
−10000
−15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −40.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean 0.007953
Std Dev 0.9353
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

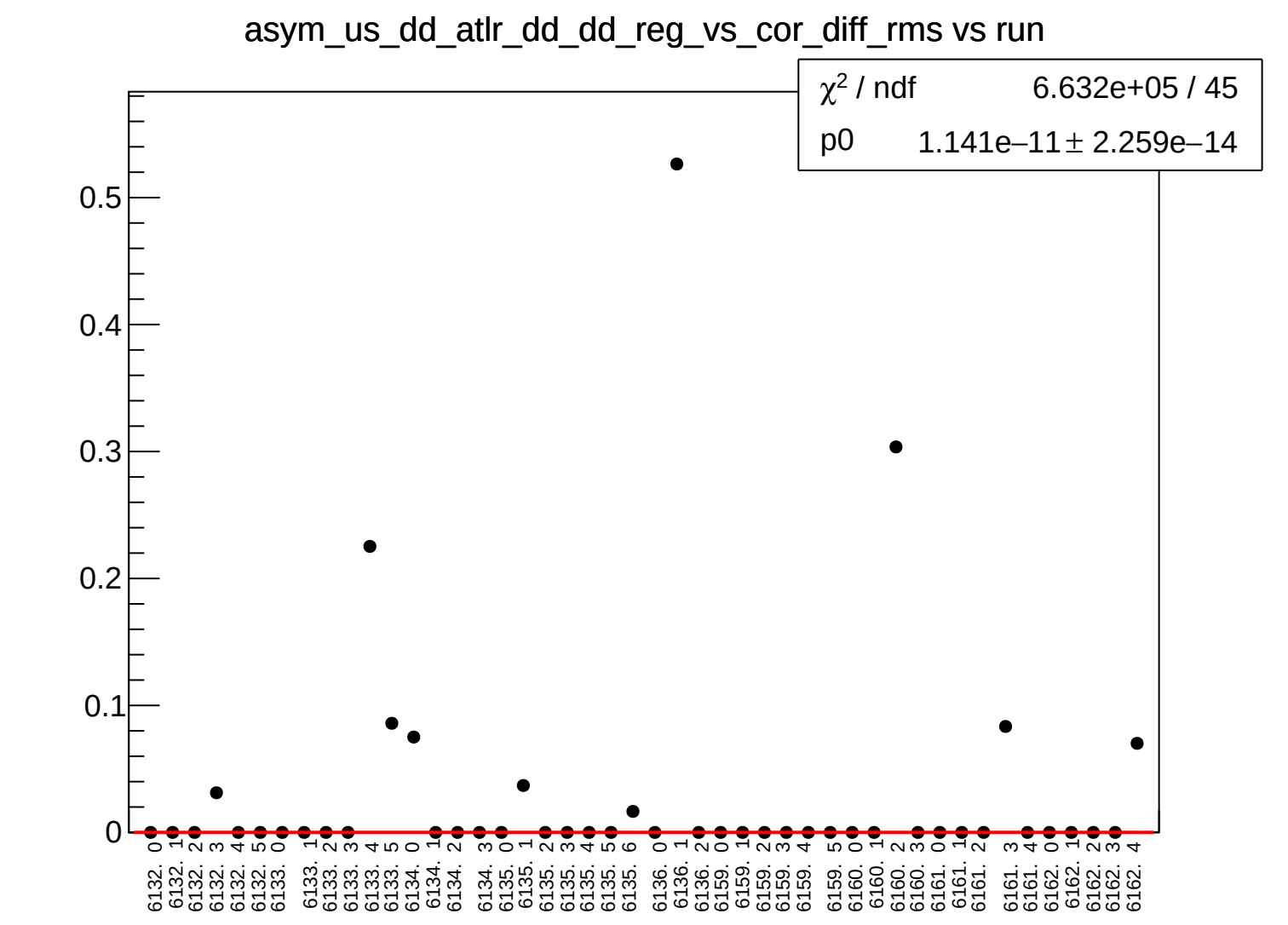

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.313e+04 / 45
p0 380.8 ± 0.4003
480
460
440
420
400
380
360
340
320
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

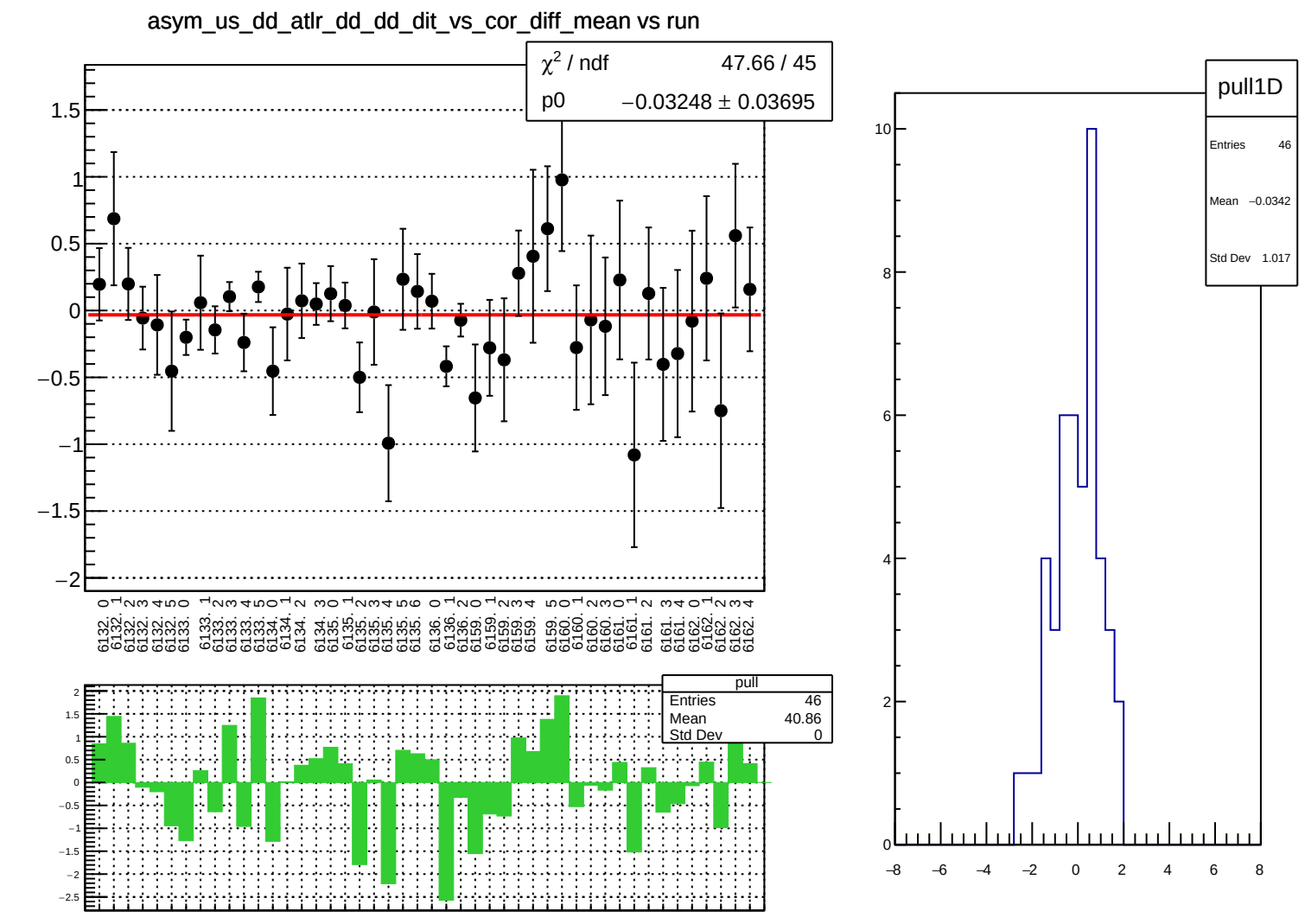

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 48.79 / 45
p0 182.8 ± 1642
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 72.05
Std Dev 0
2
1
0
−1
−2

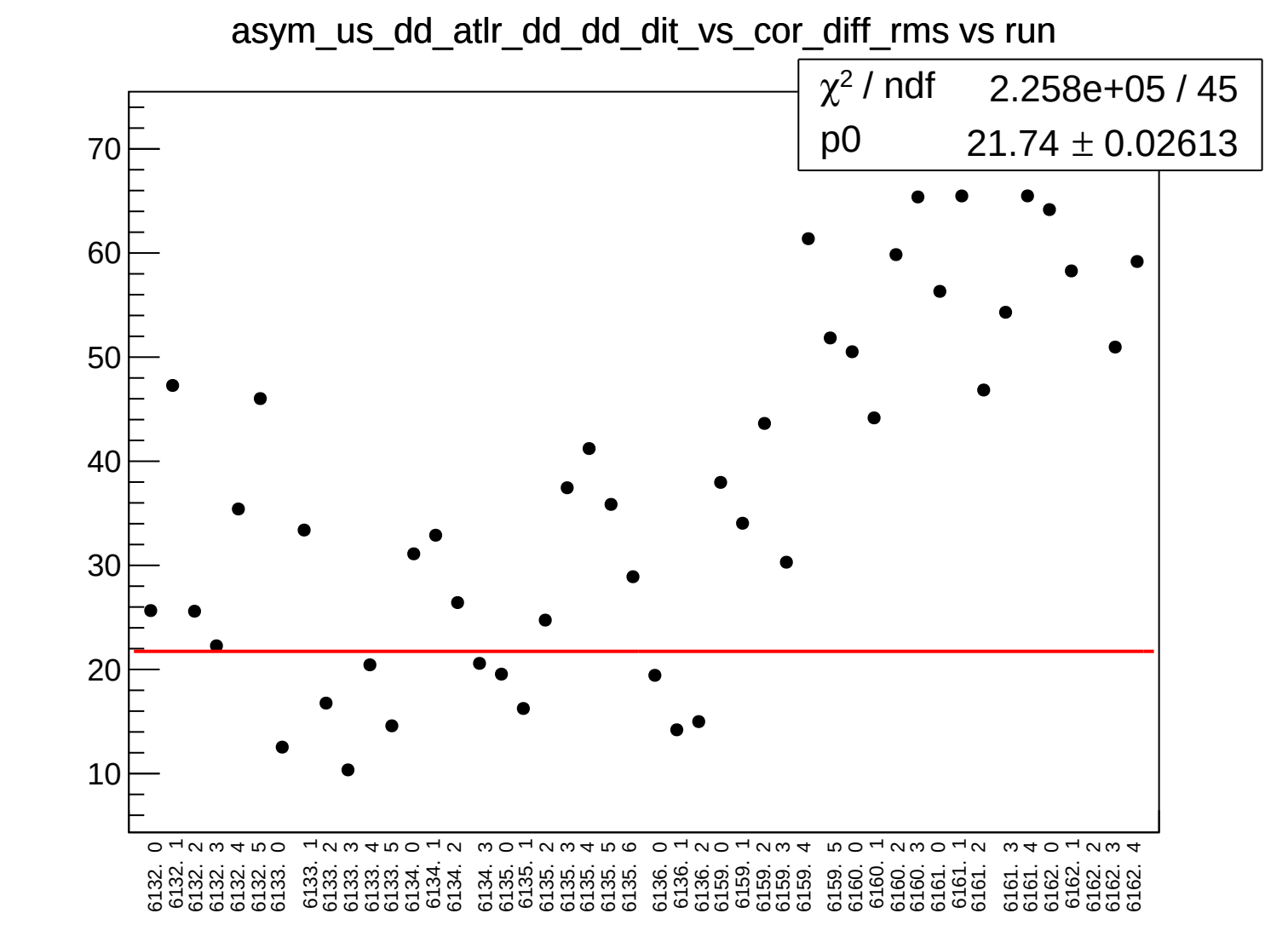

pull1D
Entries 46
Mean −0.0106
Std Dev 1.03
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

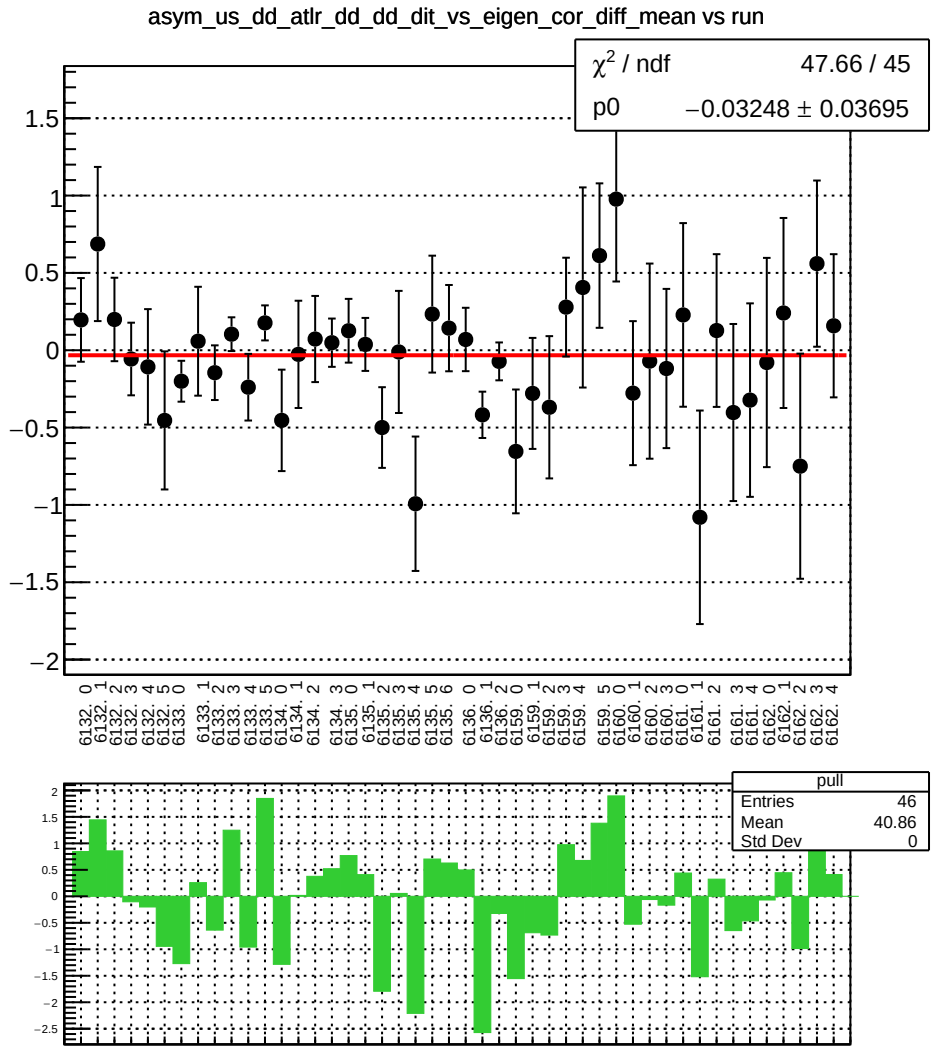

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 271.7 / 45
p0 1113 ± 1.161
1160
1140
1120
1100
1080
1060
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

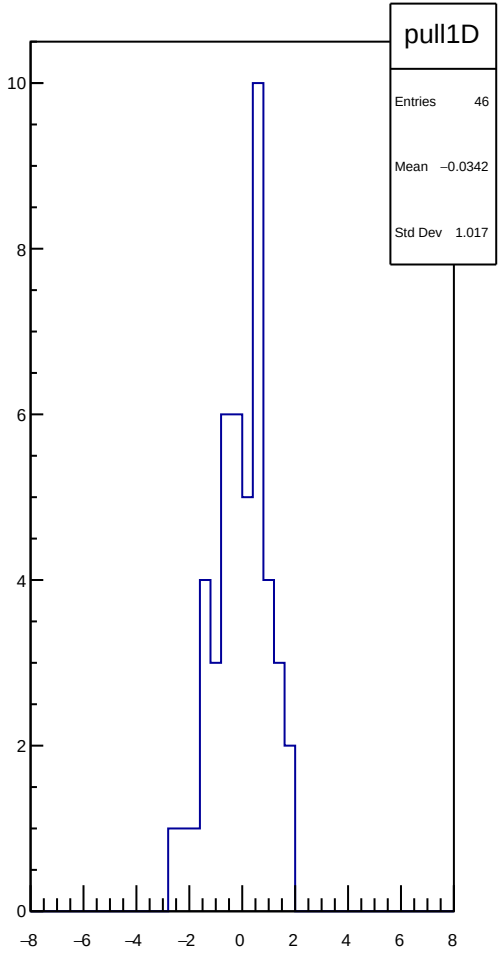

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 38.82 / 45
p0 −1.466e−14 ± 3.195e−14
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 27.28
Std Dev 14.09
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.1496
Std Dev 0.9064
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

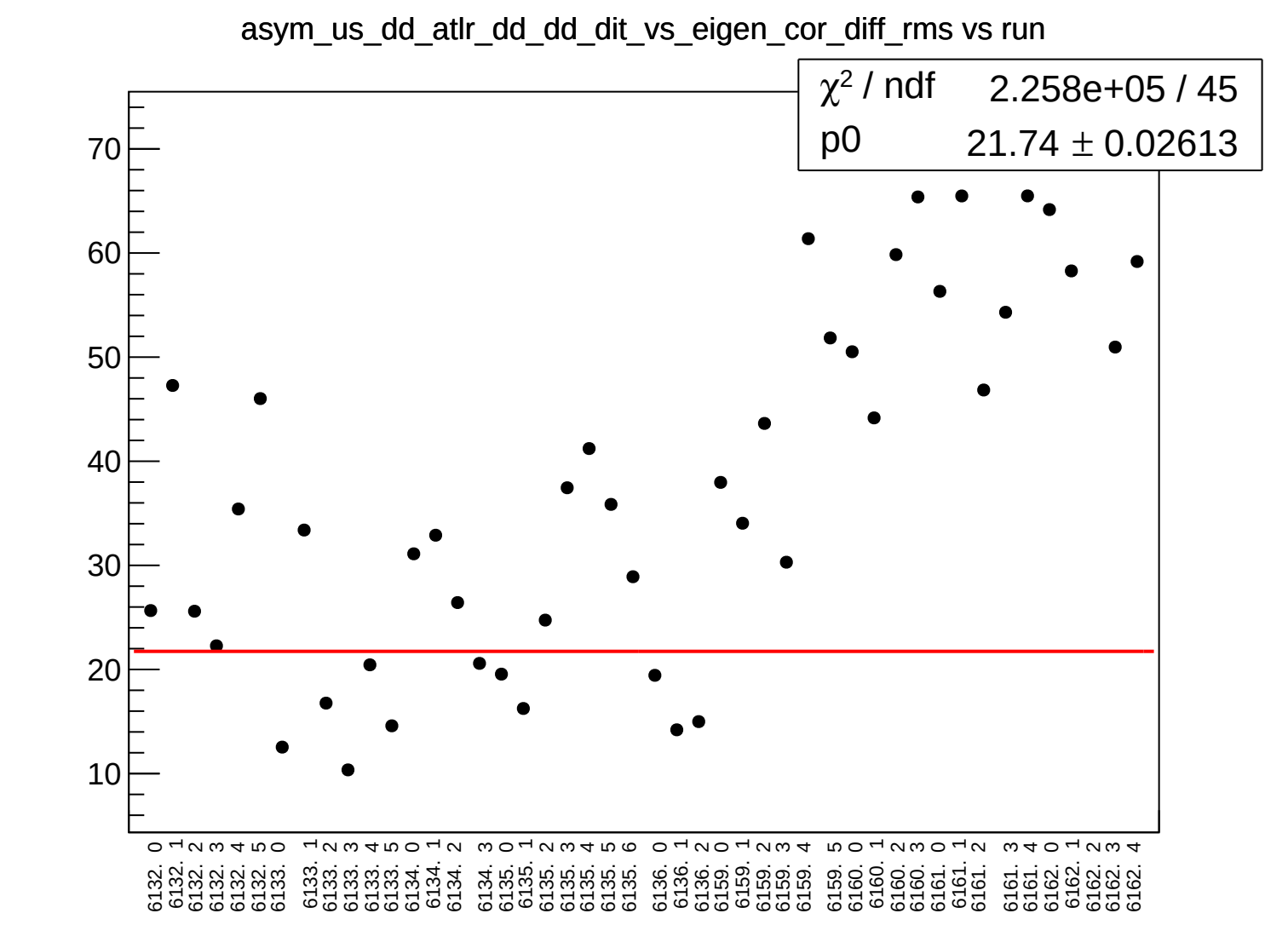

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.632e+05 / 45
p0 1.141e−11 ± 2.259e−14
0.5
0.4
0.3
0.2
0.1
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

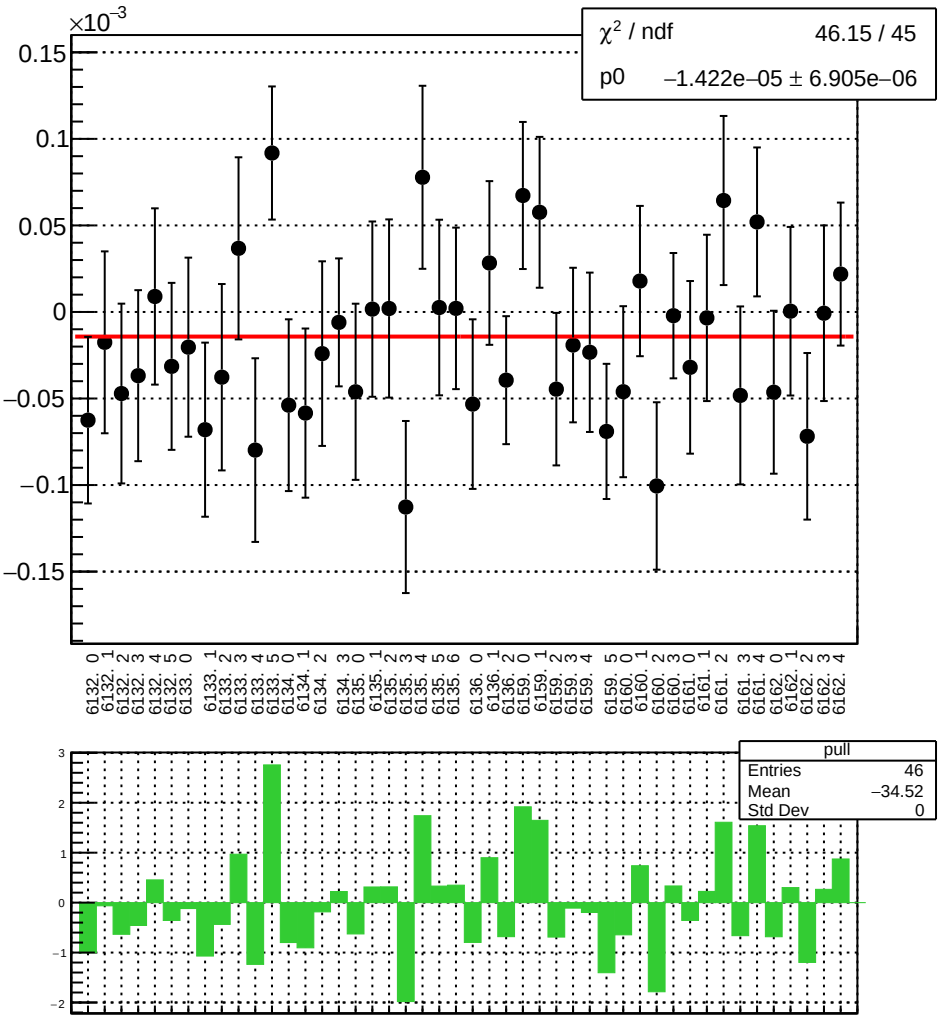

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 47.66 / 45
p0 −0.03248 ± 0.03695
pull
Entries 46
Mean 40.86
Std Dev 0
pull1D
Entries 46
Mean −0.0342
Std Dev 1.017

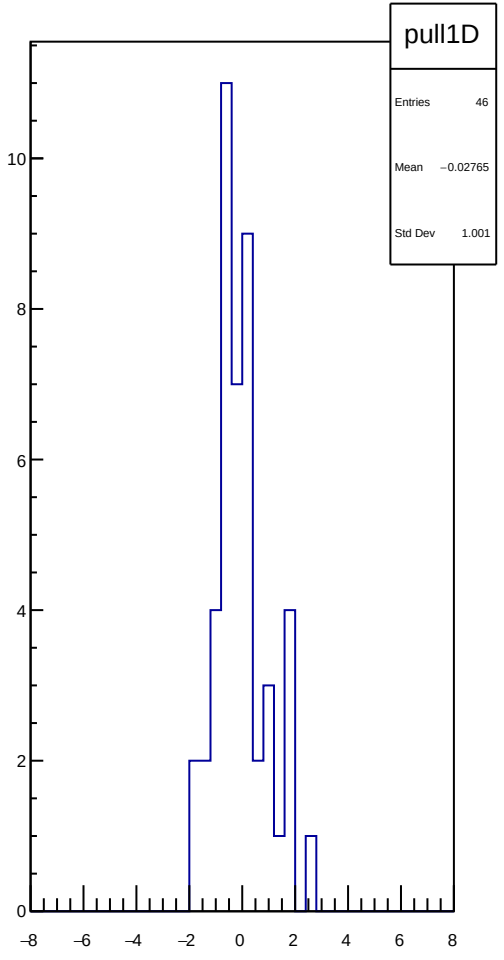

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.258e+05 / 45
p0 21.74 ± 0.02613
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

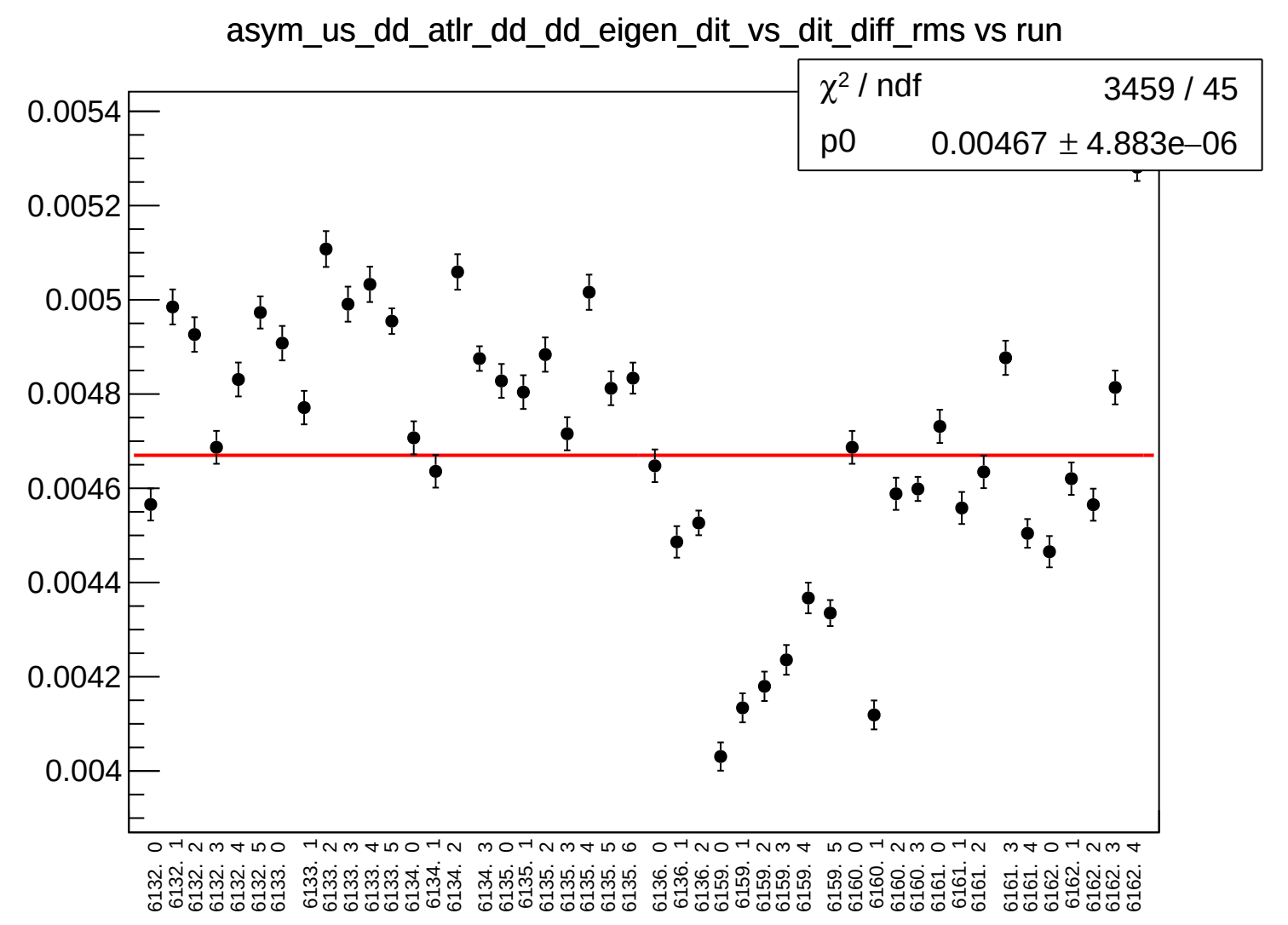

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.66 / 45
p0 −0.03248 ± 0.03695
pull
Entries 46
Mean 40.86
Std Dev 0

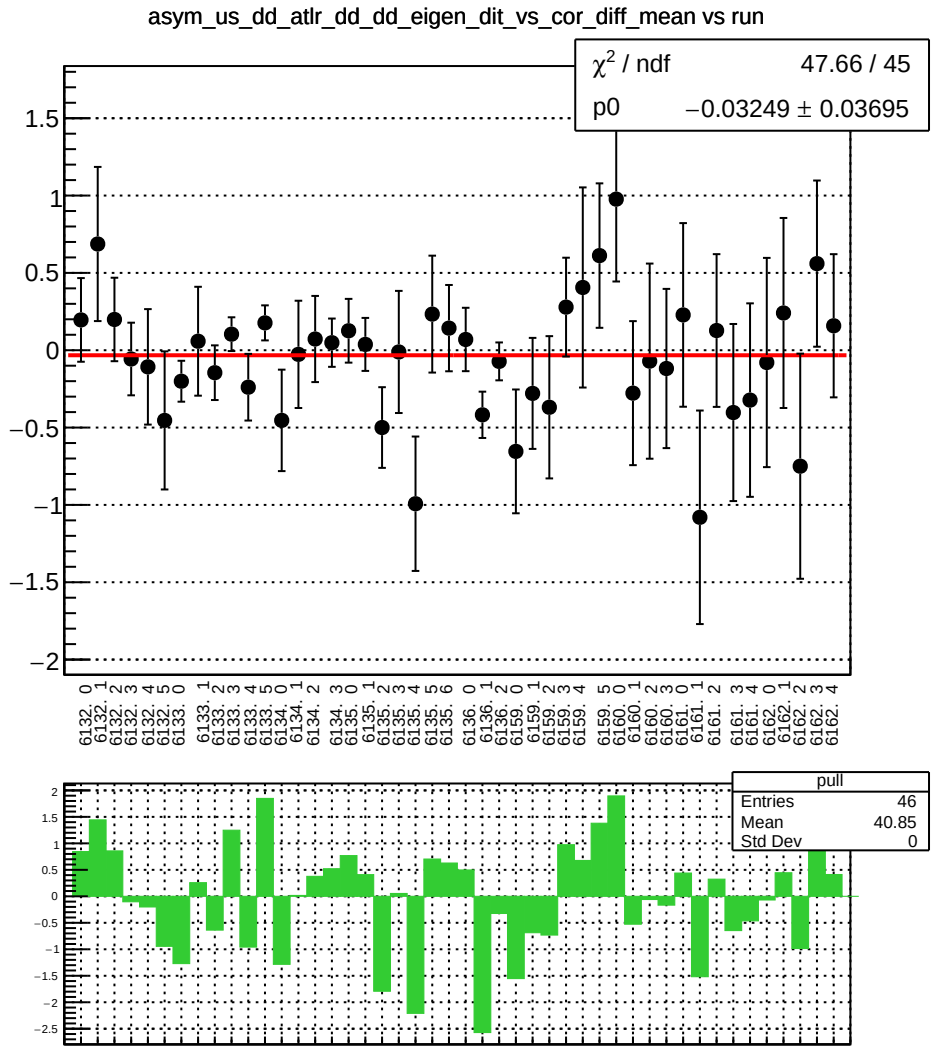

pull1D
Entries 46
Mean −0.0342
Std Dev 1.017

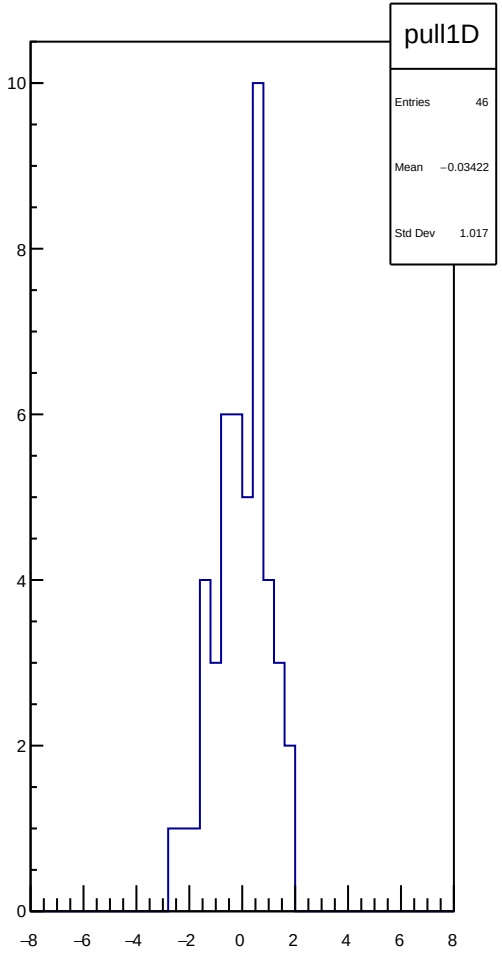

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.258e+05 / 45
p0 21.74 ± 0.02613
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

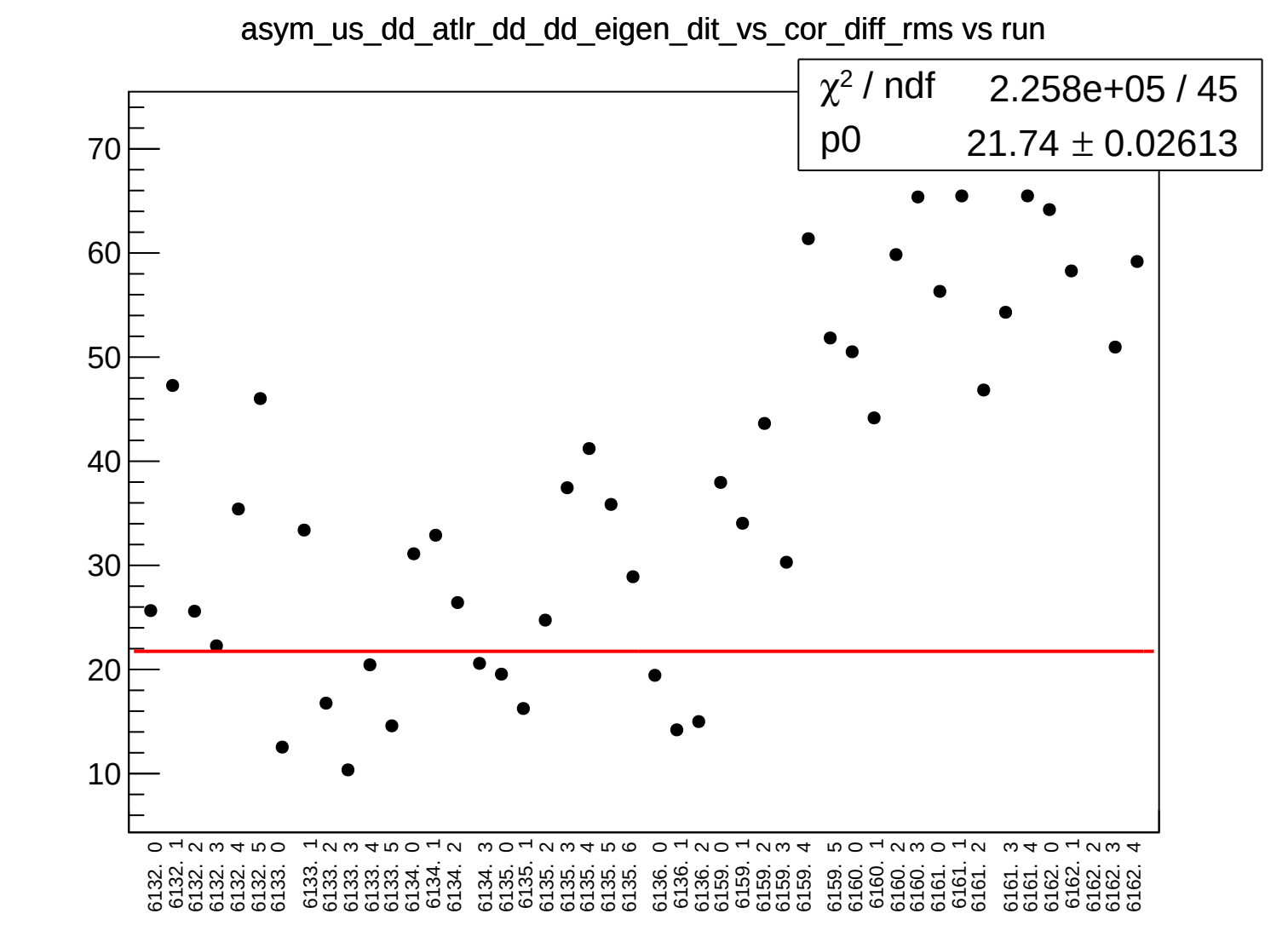

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 46.15 / 45
p0 −1.422e−05 ± 6.905e−06
pull
Entries 46
Mean −34.52
Std Dev 0

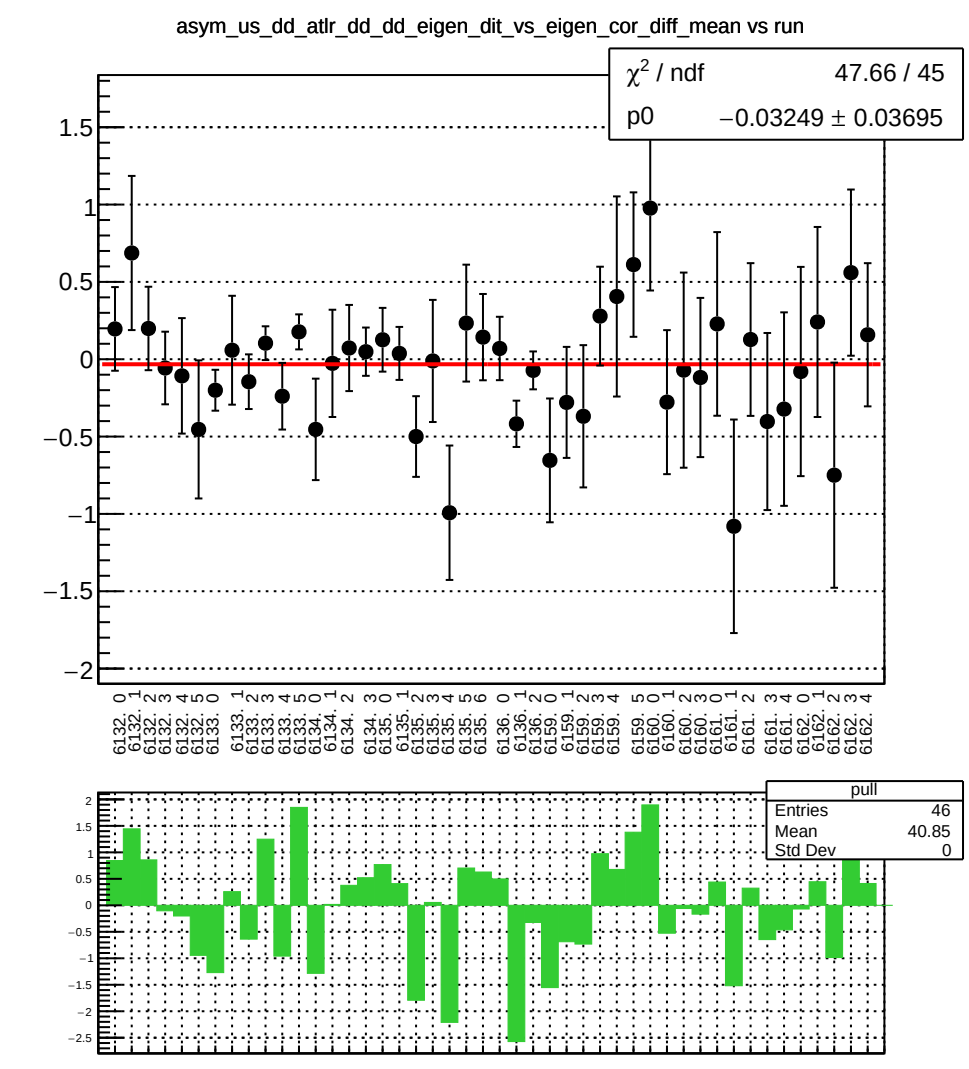

pull1D
Entries 46
Mean −0.02765
Std Dev 1.001

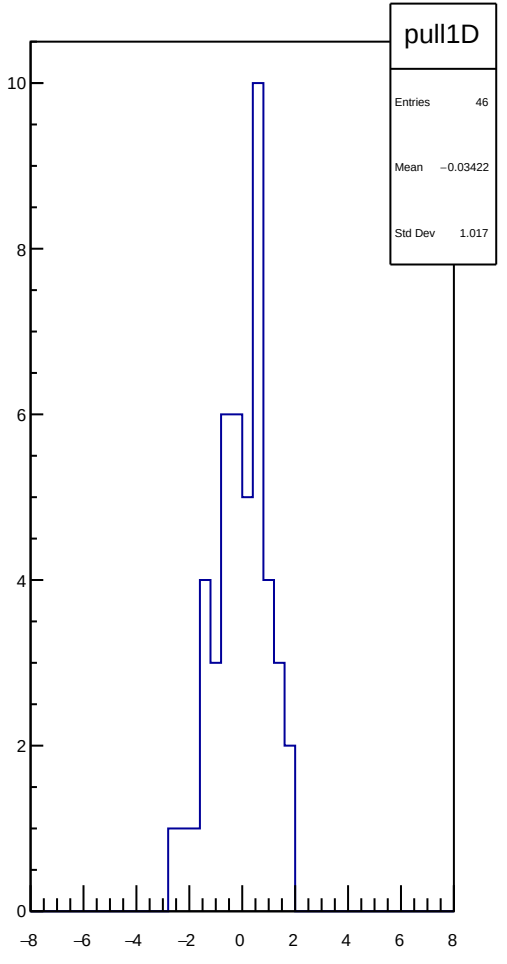

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3459 / 45
p0 0.00467 ± 4.883e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

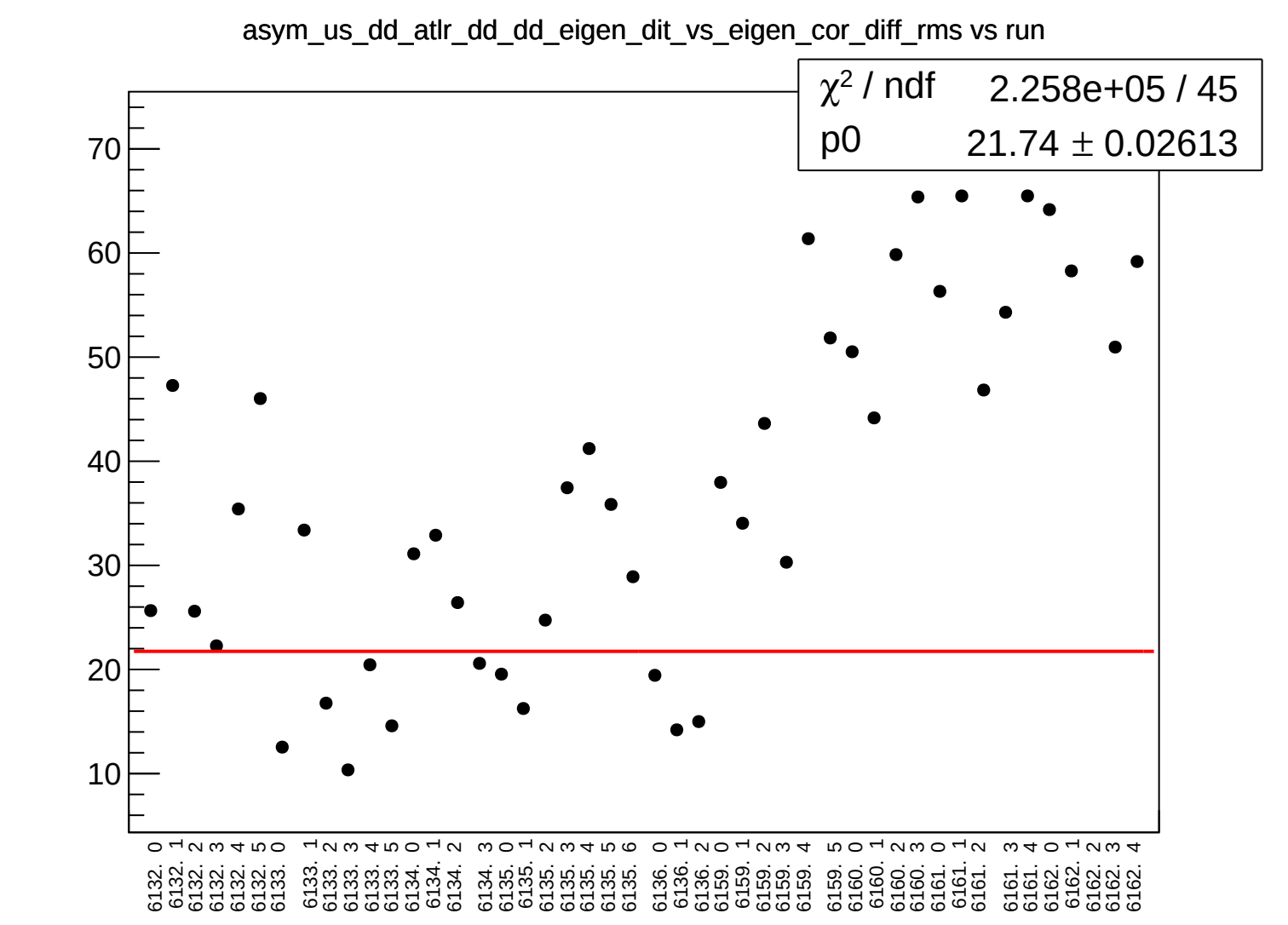

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 47.66 / 45
p0 −0.03249 ± 0.03695
pull
Entries 46
Mean 40.85
Std Dev 0


pull1D
Entries 46
Mean −0.03422
Std Dev 1.017


asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.258e+05 / 45
p0 21.74 ± 0.02613
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.66 / 45
p0 −0.03249 ± 0.03695
pull
Entries 46
Mean 40.85
Std Dev 0


pull1D
Entries 46
Mean −0.03422
Std Dev 1.017


asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.258e+05 / 45
p0 21.74 ± 0.02613
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
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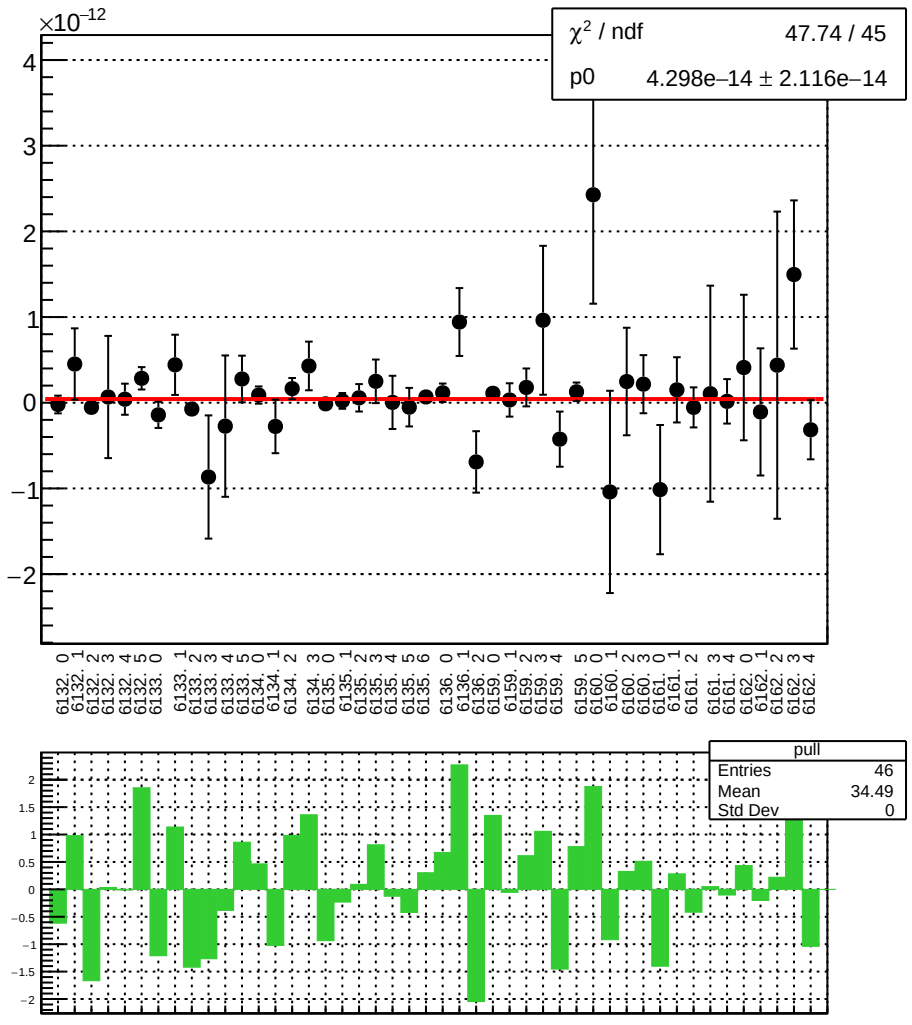
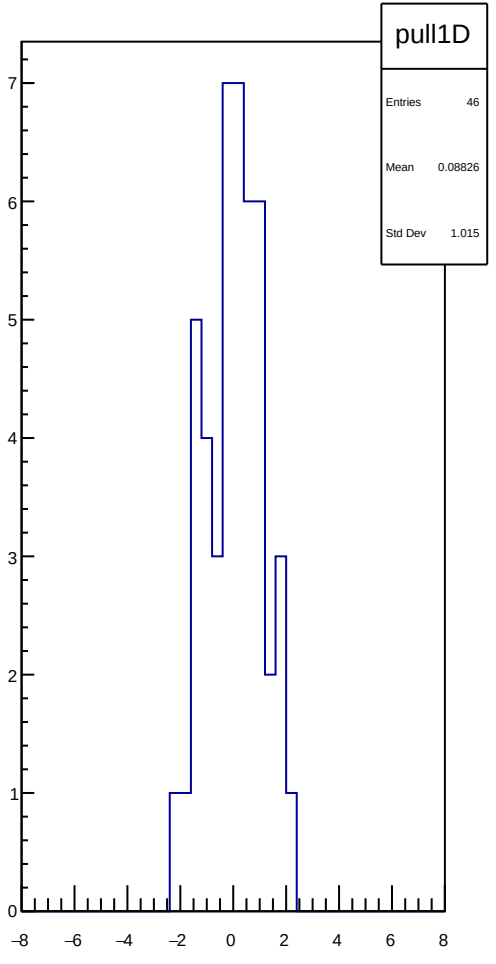
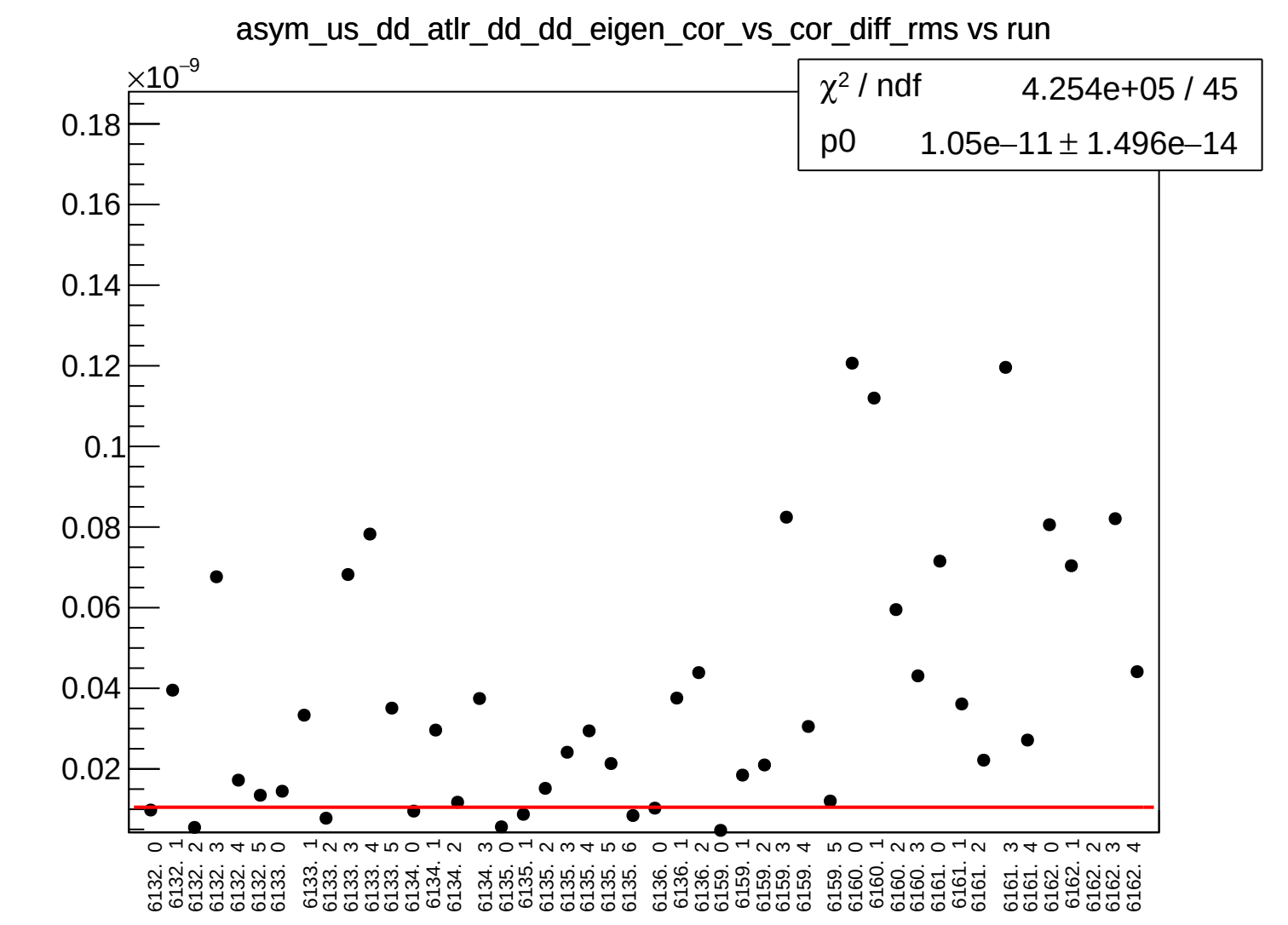
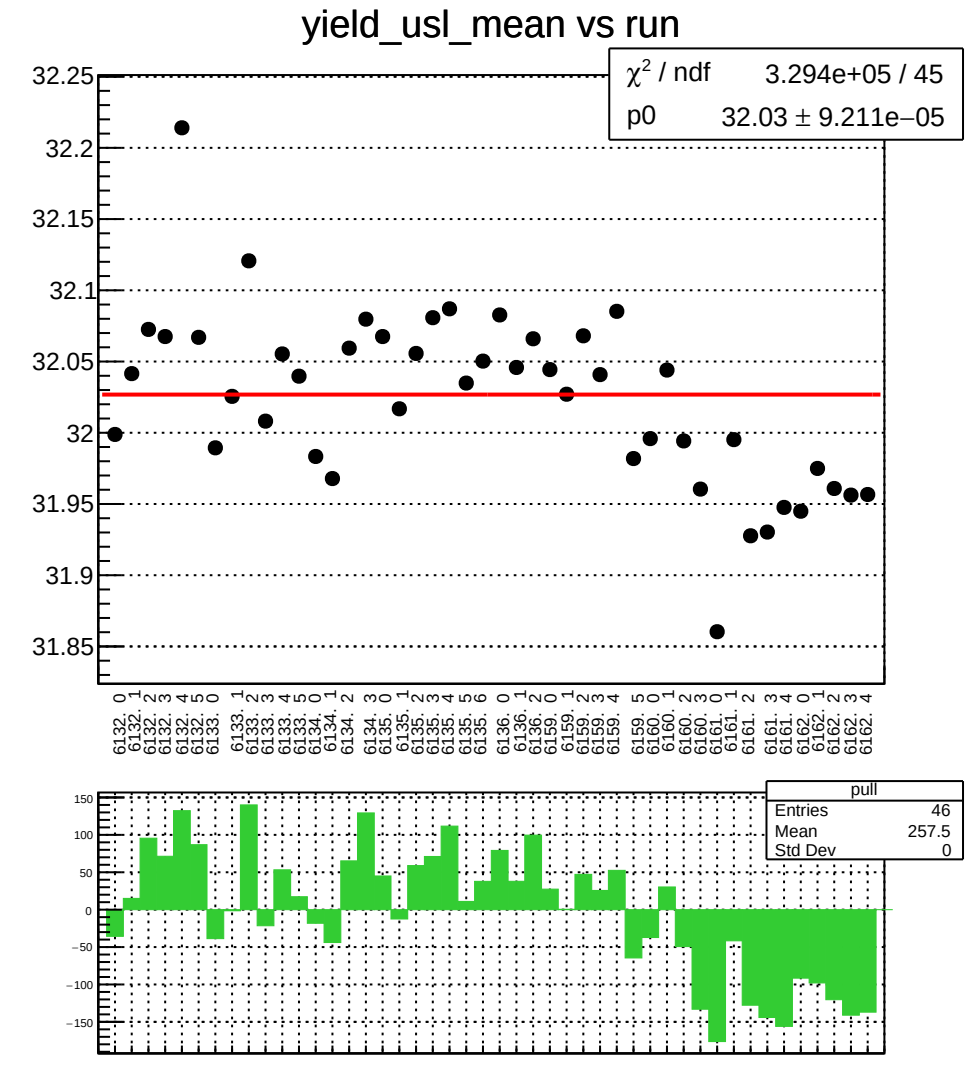
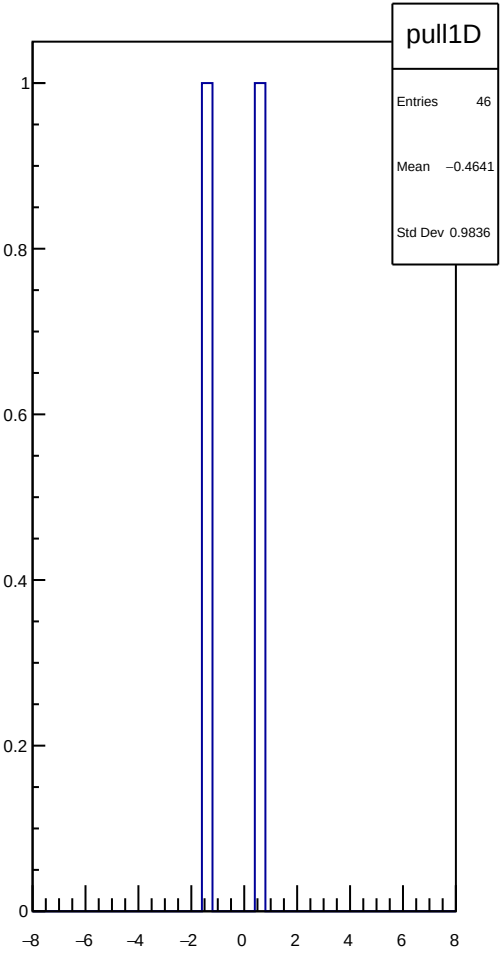
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

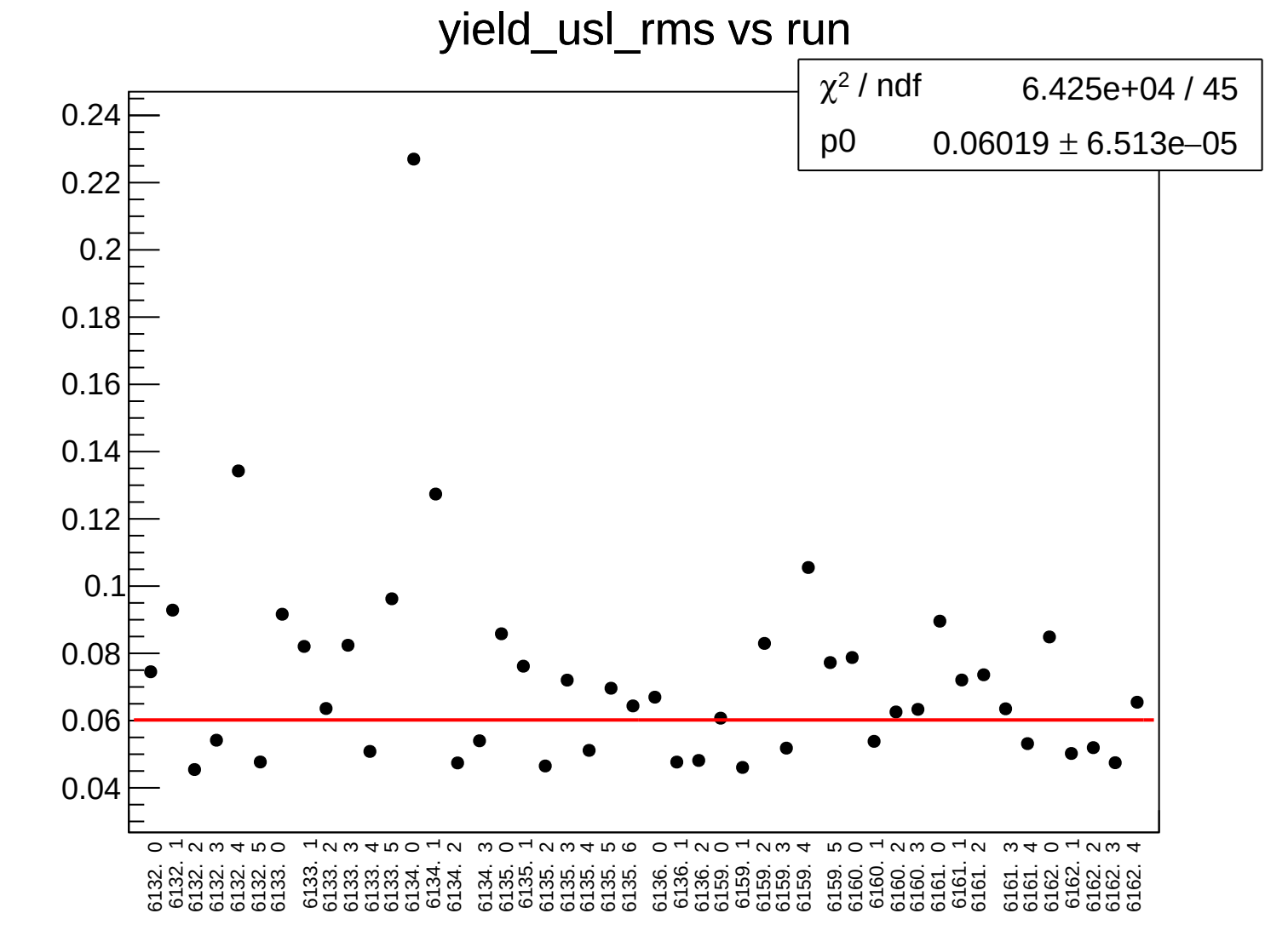

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 47.74 / 45
p0 4.298e−14 ± 2.116e−14
pull
Entries 46
Mean 34.49
Std Dev 0

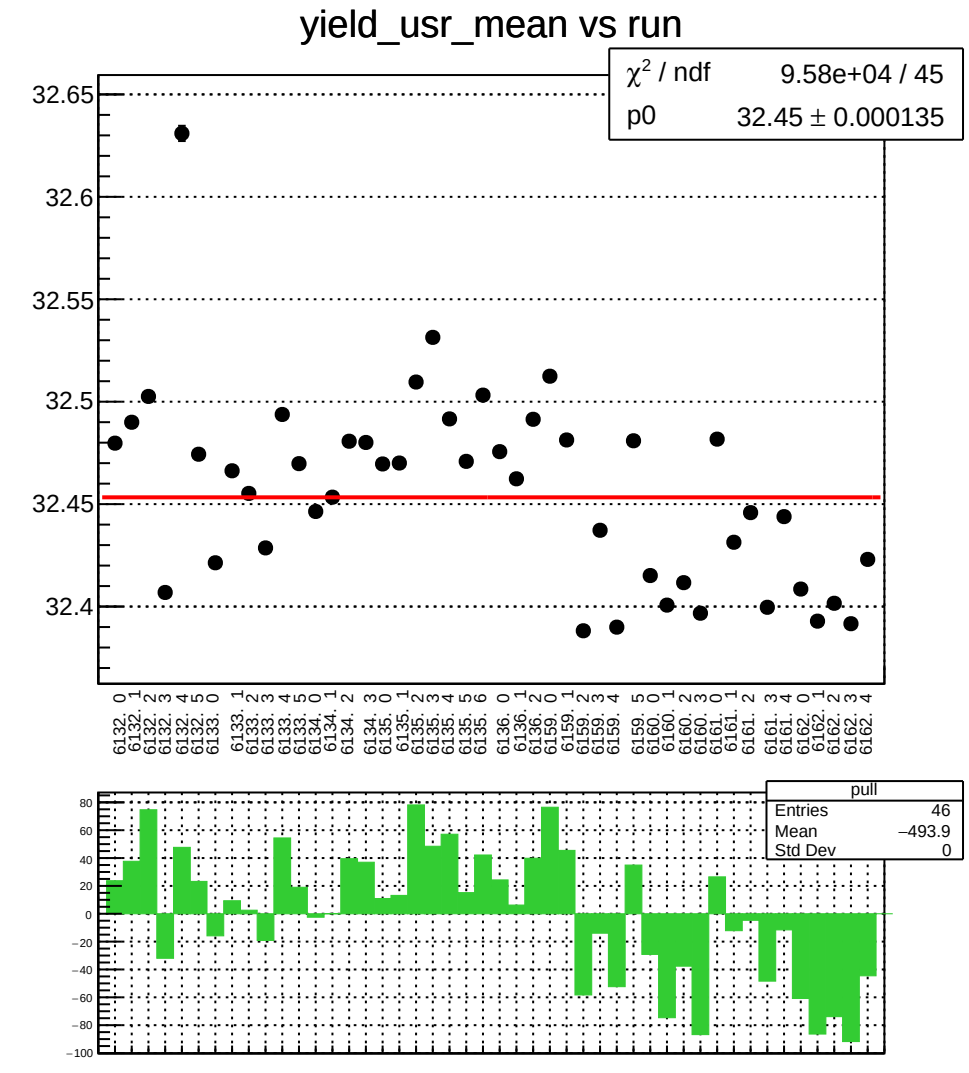

pull1D
Entries 46
Mean 0.08826
Std Dev 1.015


asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.254e+05 / 45
p0 1.05e−11 ± 1.496e−14
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
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_usl_mean vs run
χ² / ndf 3.294e+05 / 45
p0 32.03 ± 9.211e−05
32.25
32.2
32.15
32.1
32.05
32
31.95
31.9
31.85
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 257.5
Std Dev 0
150
100
50
0
−50
−100
−150


pull1D
Entries 46
Mean −0.4641
Std Dev 0.9836
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 6.425e+04 / 45
p0 0.06019 ± 6.513e−05
0.24
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
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_usr_mean vs run
χ² / ndf 9.58e+04 / 45
p0 32.45 ± 0.000135
32.65
32.6
32.55
32.5
32.45
32.4
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
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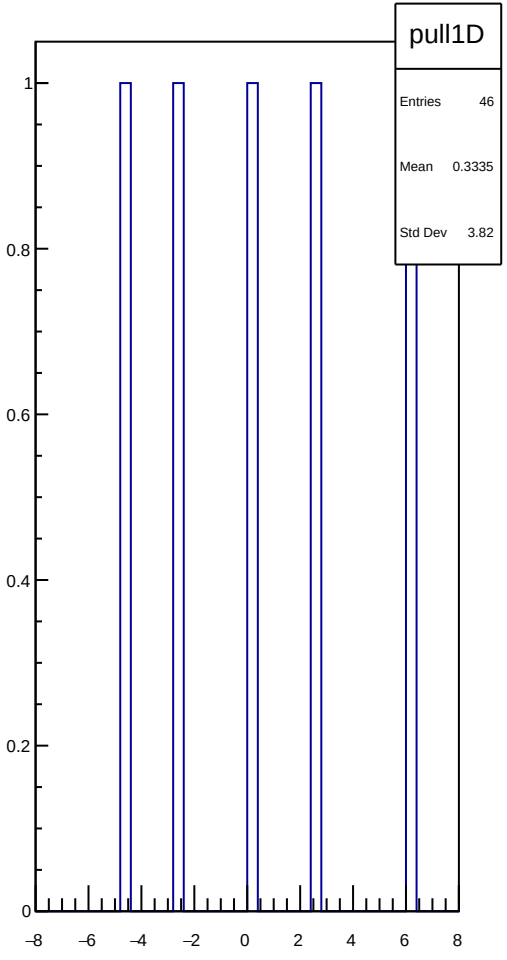
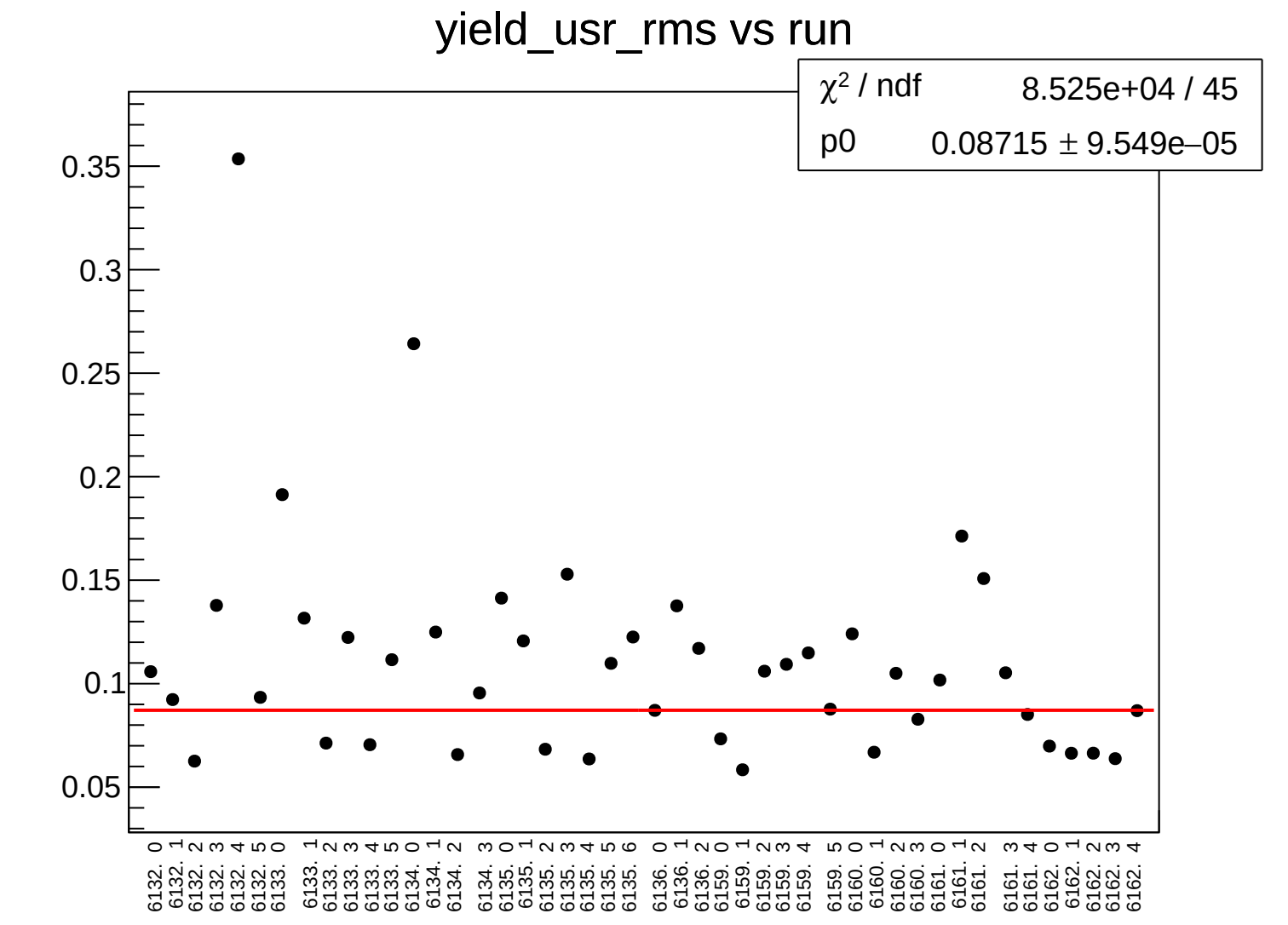
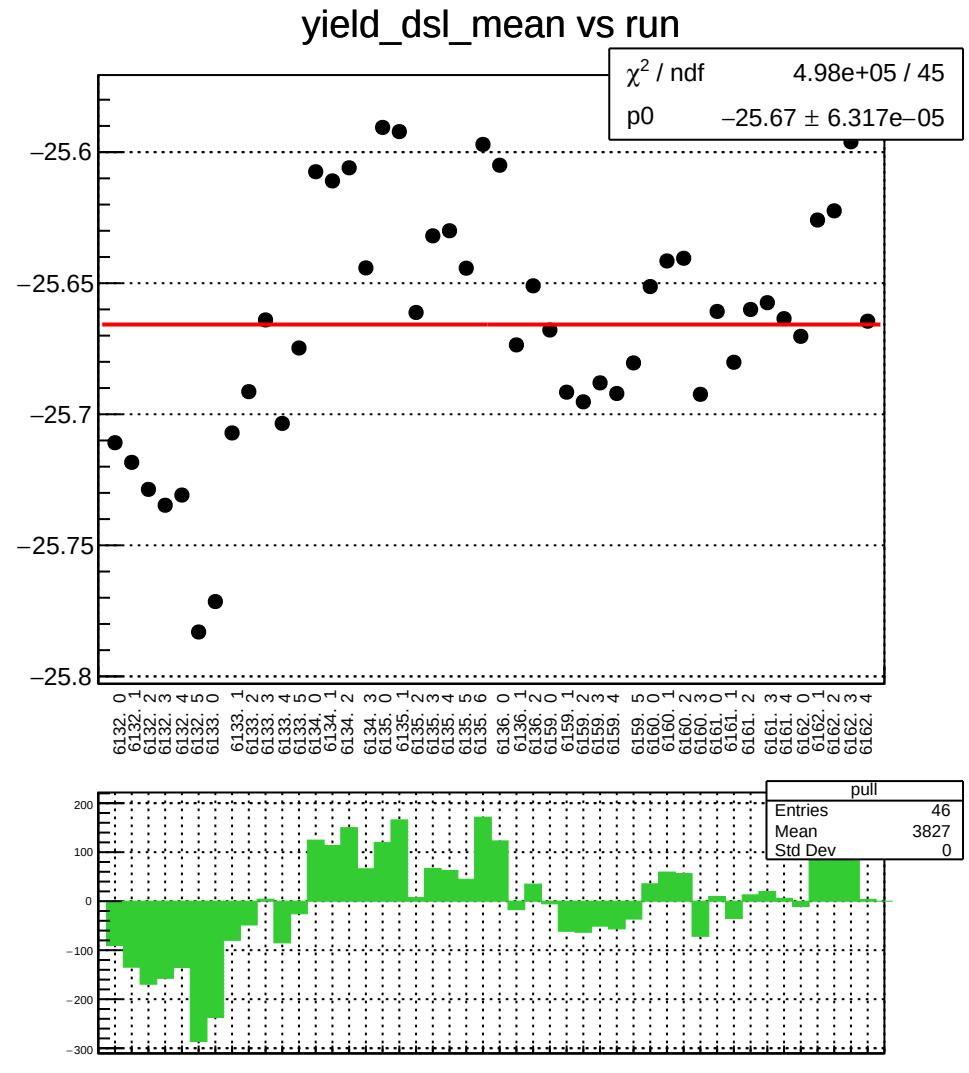
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −493.9
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100


pull1D
Entries 46
Mean 0.3335
Std Dev 3.82
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 8.525e+04 / 45
p0 0.08715 ± 9.549e–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
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_dsl_mean vs run
χ² / ndf 4.98e+05 / 45
p0 −25.67 ± 6.317e−05
−25.6
−25.65
−25.7
−25.75
−25.8
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
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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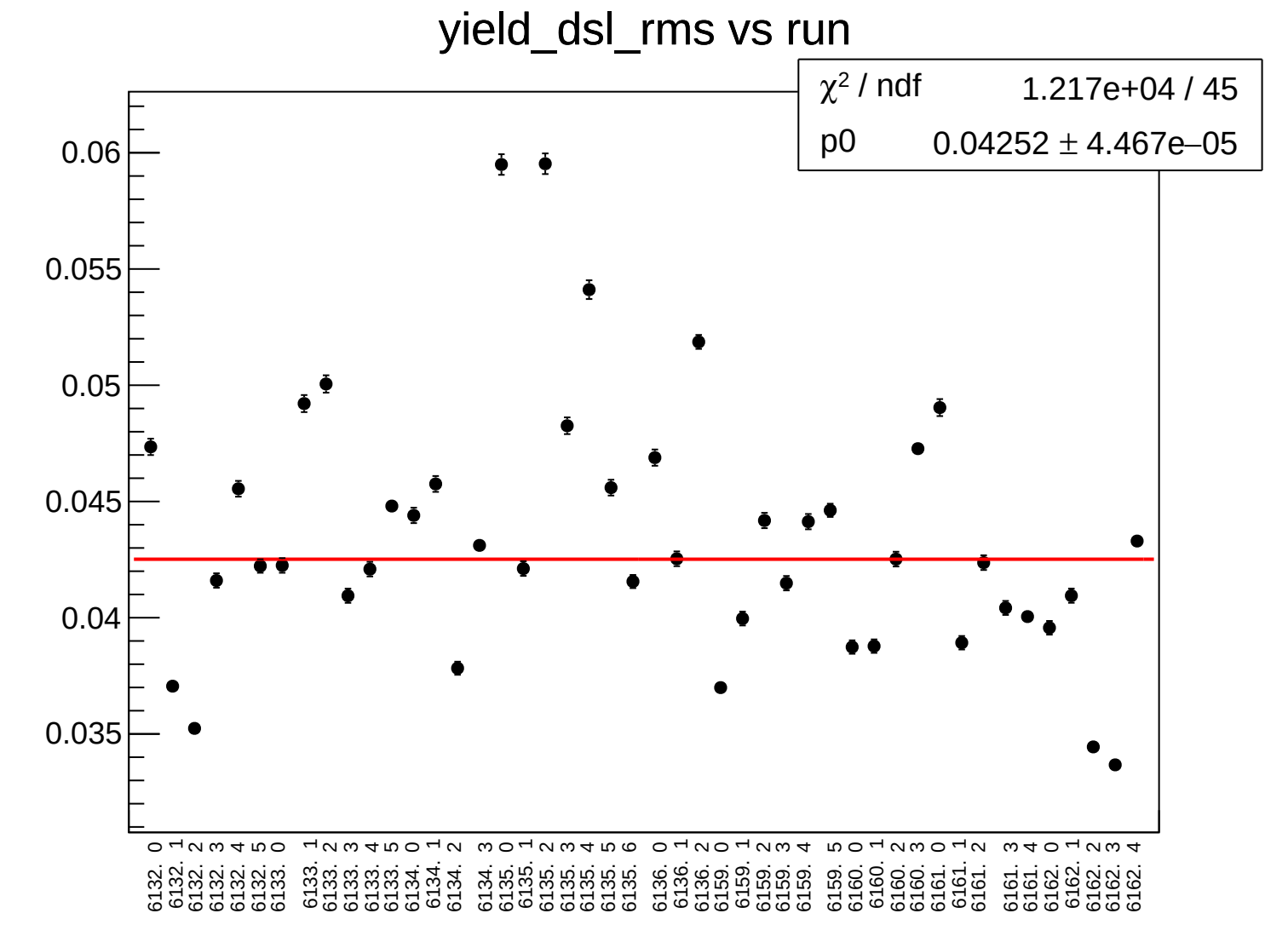
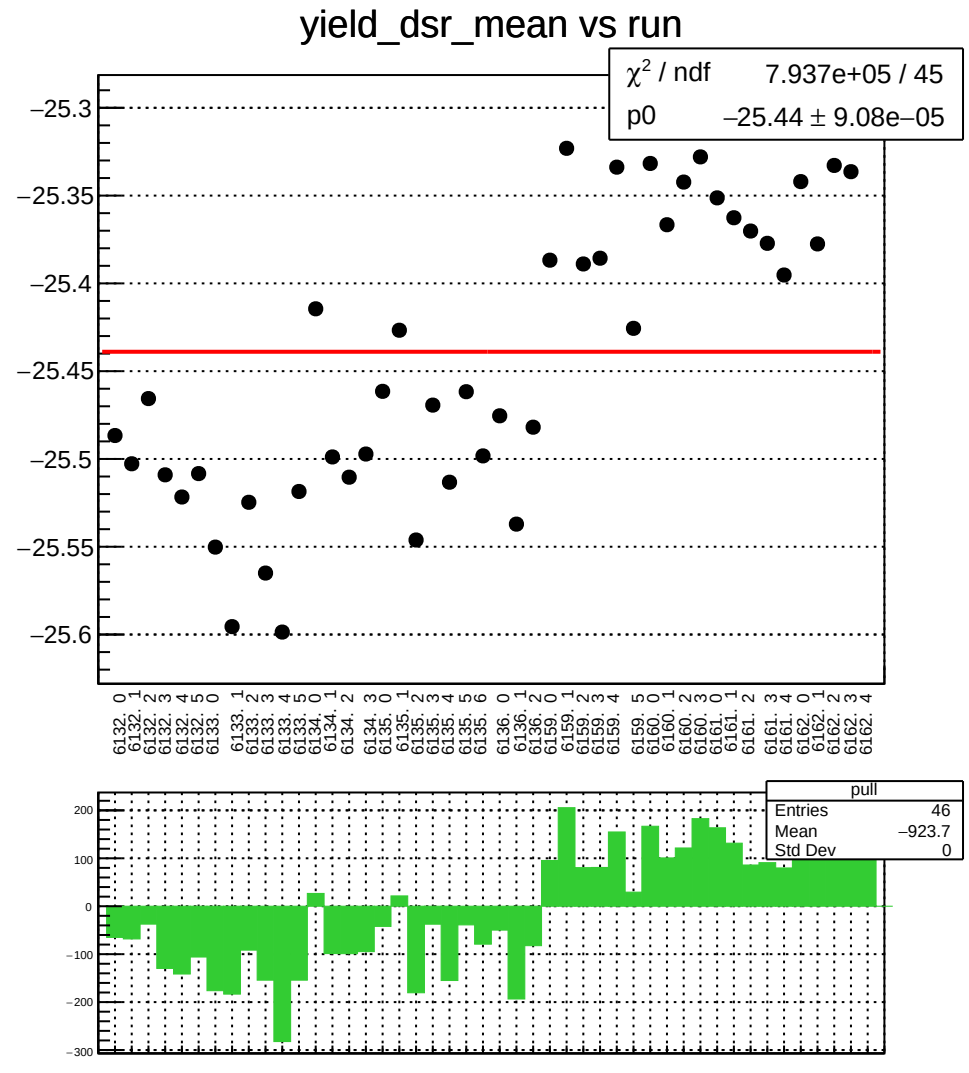
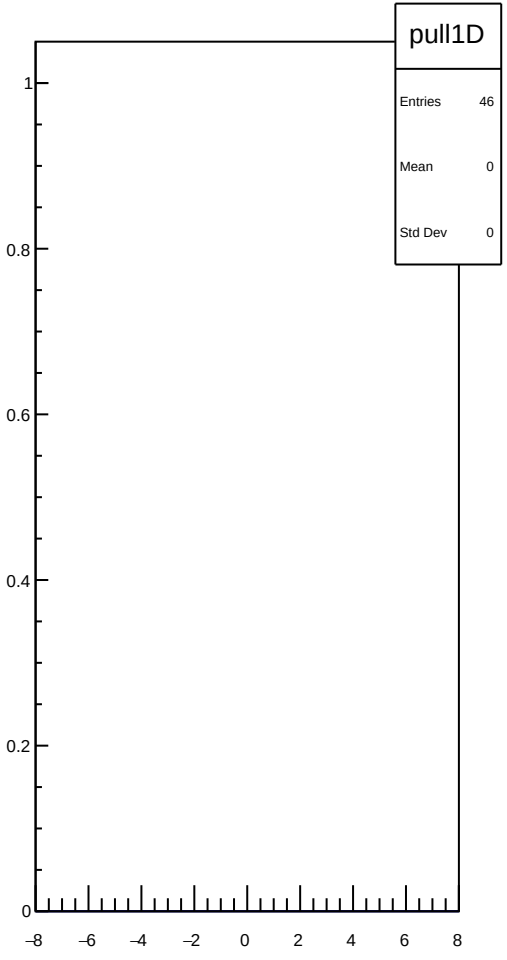
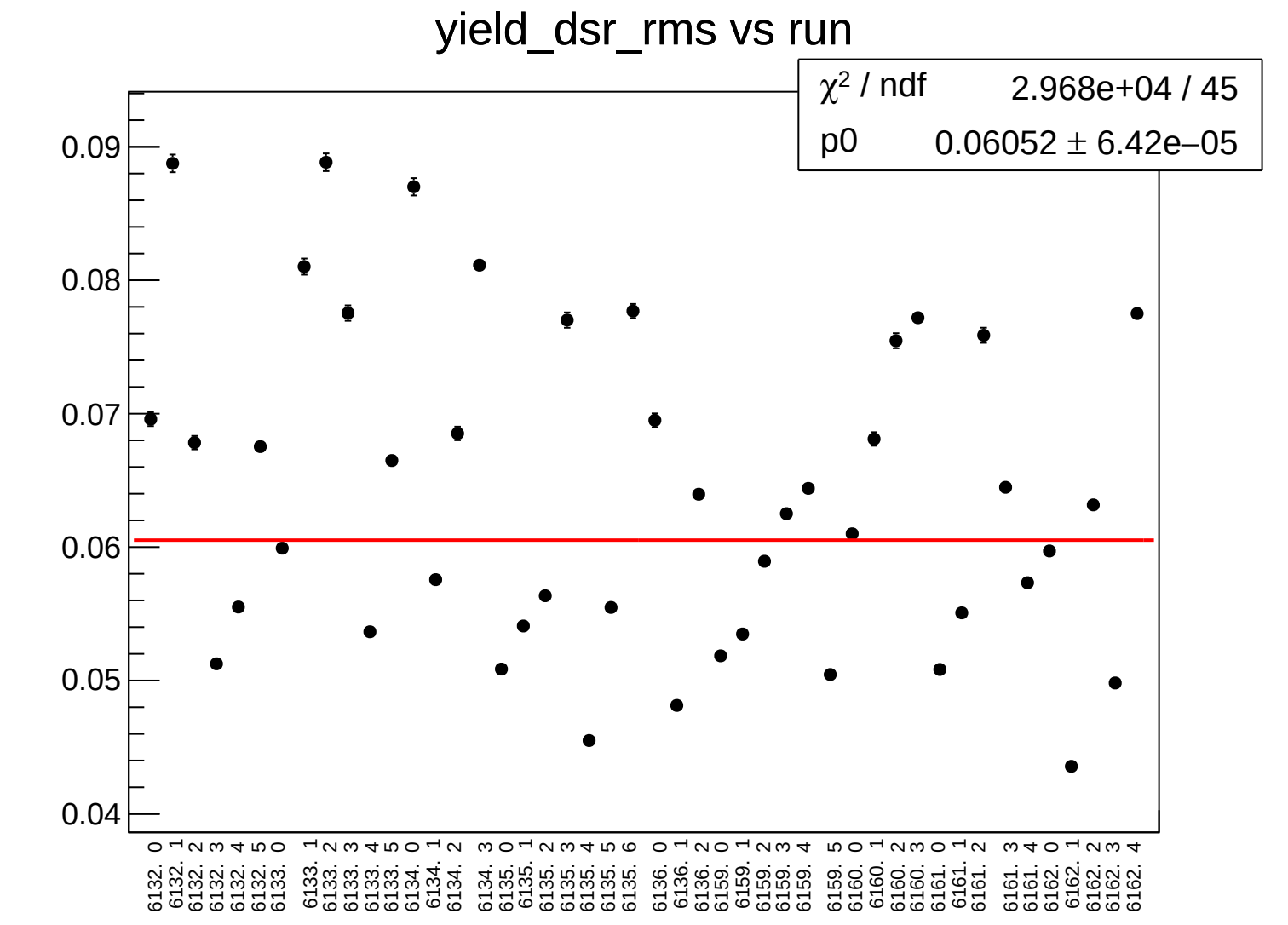
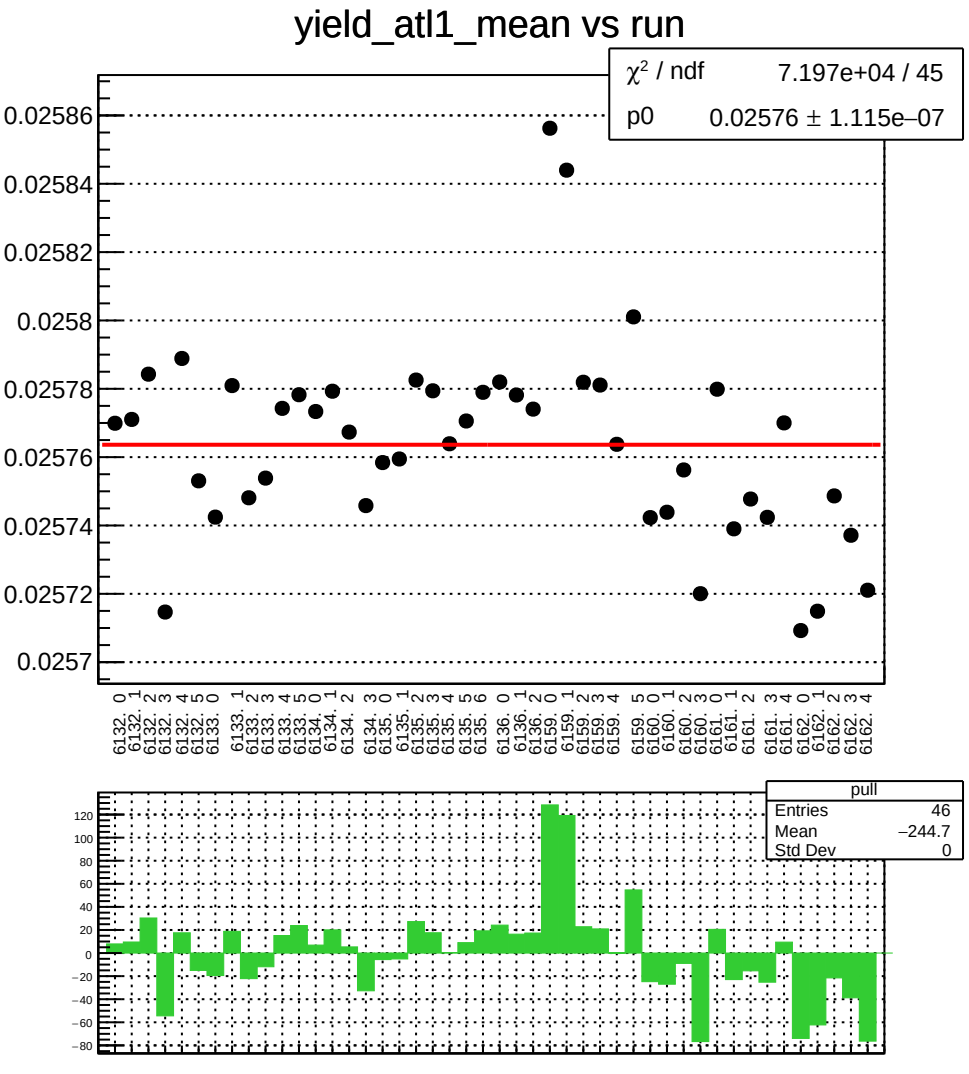
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 3827
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 46
Mean 3.131
Std Dev 4.431
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

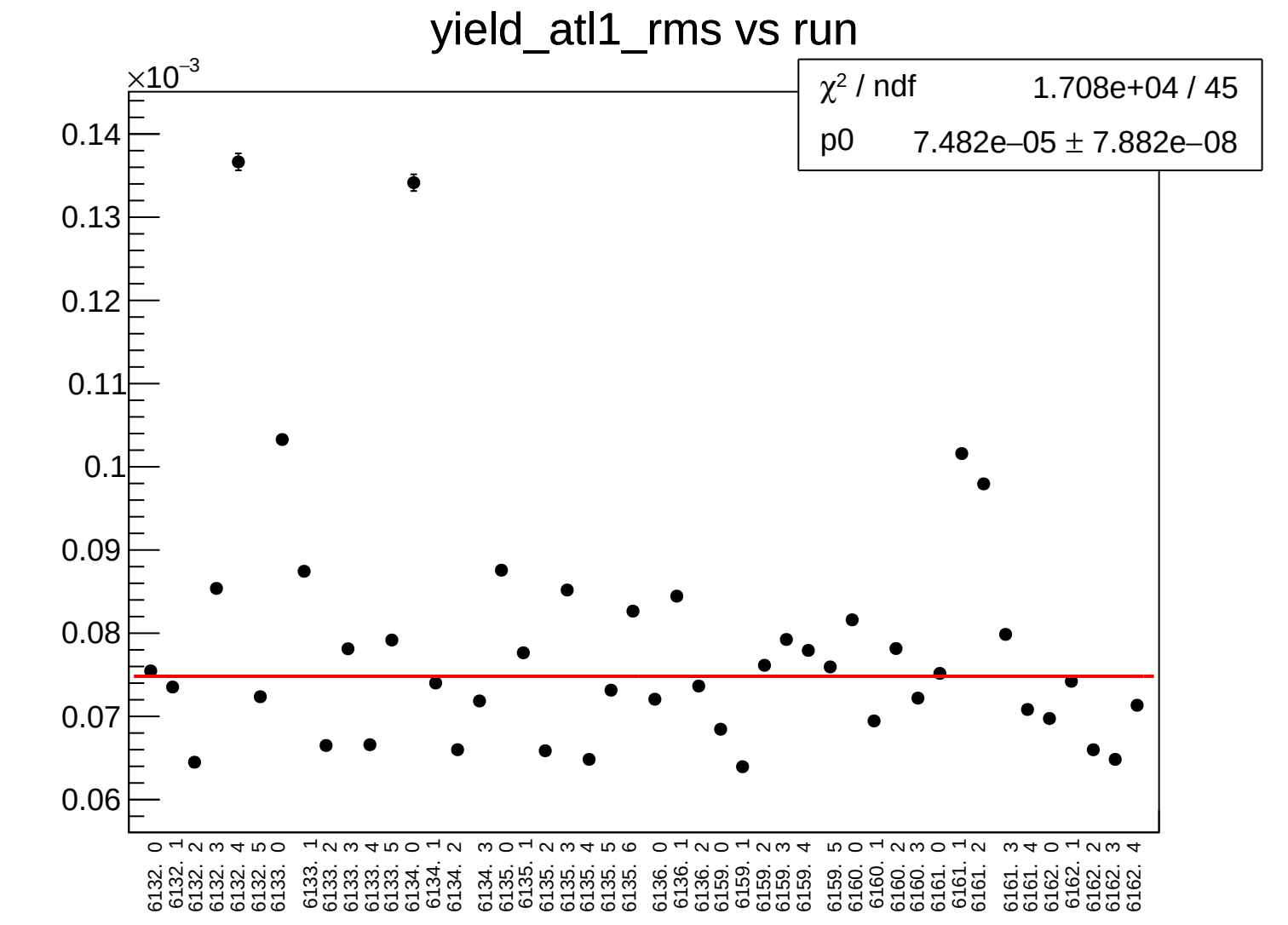

yield_dsl_rms vs run
χ² / ndf 1.217e+04 / 45
p0 0.04252 ± 4.467e−05
0.06
0.055
0.05
0.045
0.04
0.035
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

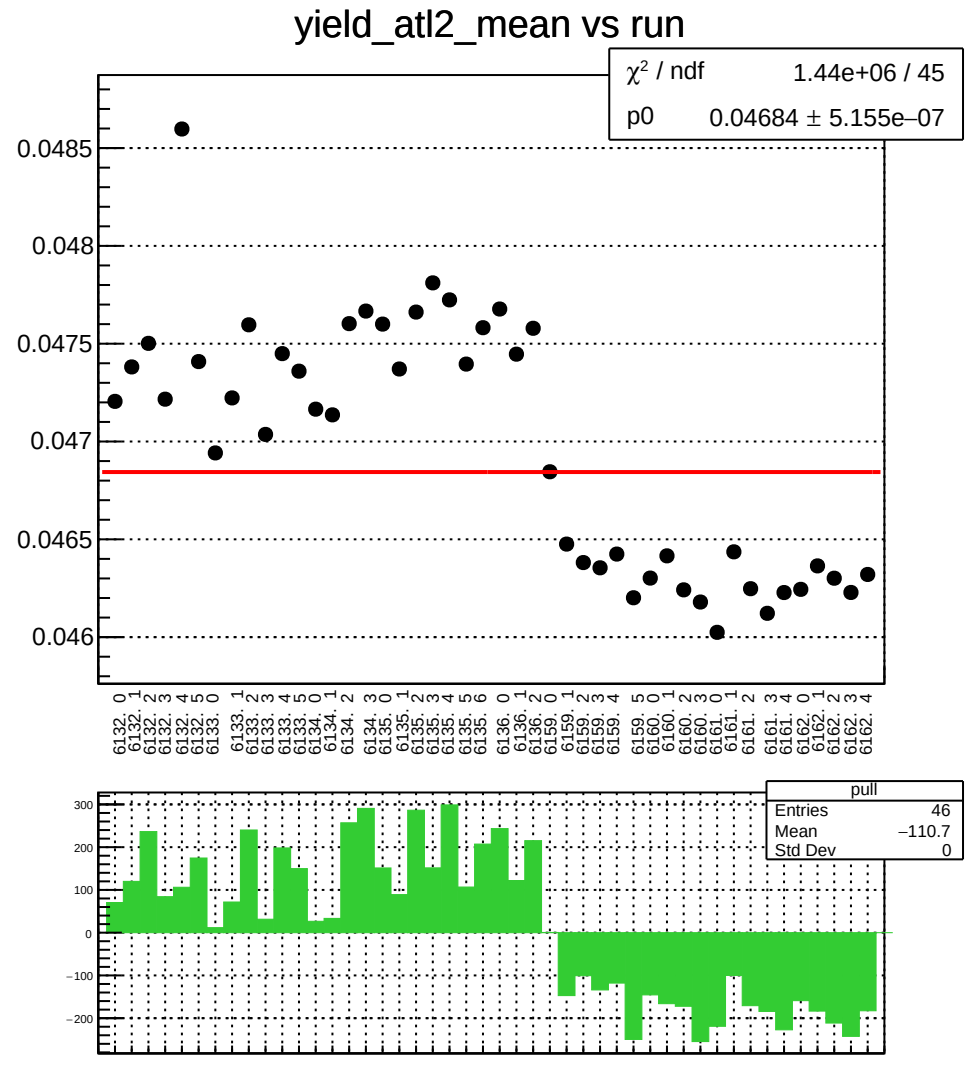

yield_dsr_mean vs run
χ² / ndf 7.937e+05 / 45
p0 −25.44 ± 9.08e−05
−25.3
−25.35
−25.4
−25.45
−25.5
−25.55
−25.6
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −923.7
Std Dev 0
200
100
0
−100
−200
−300

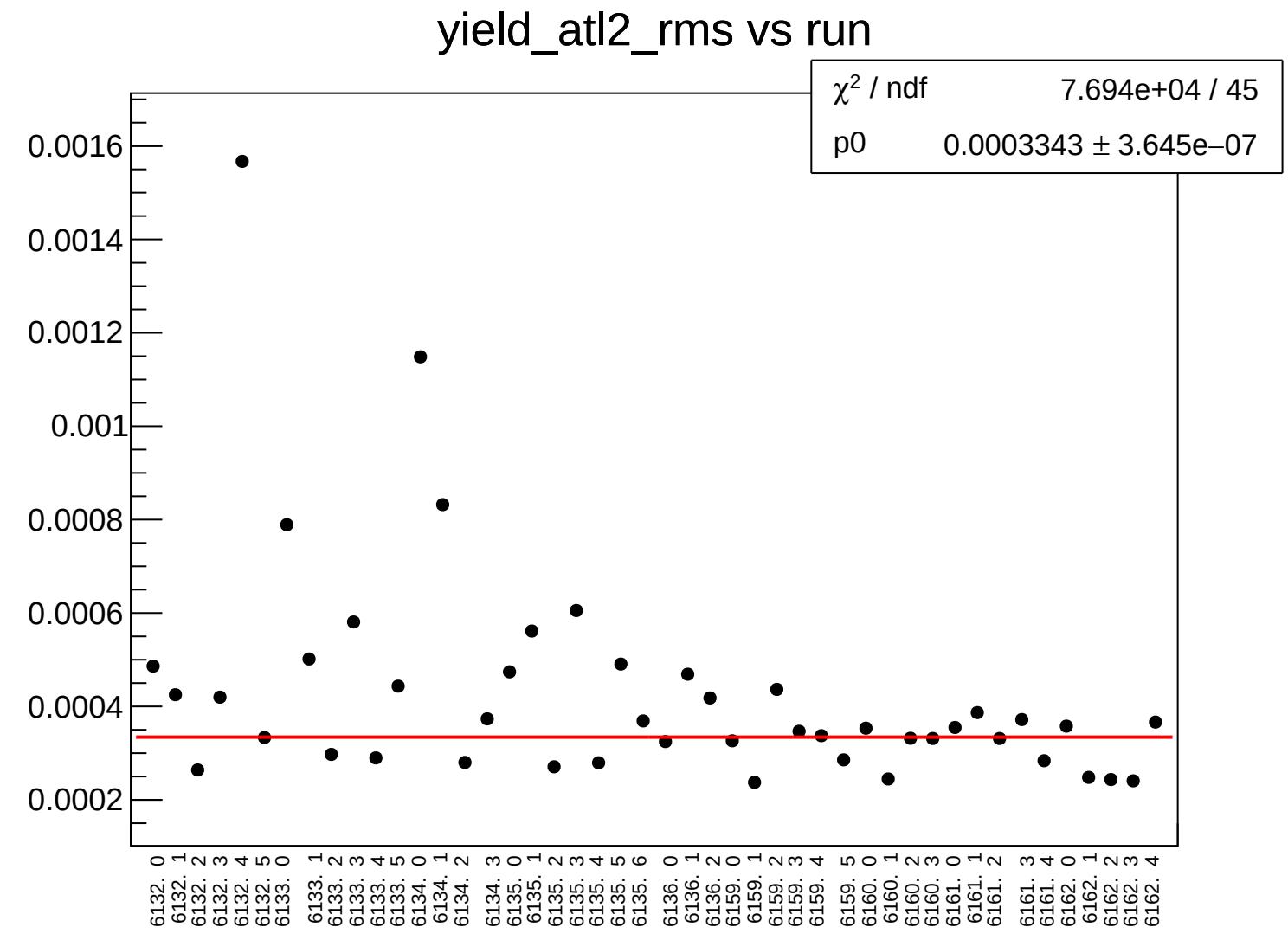

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

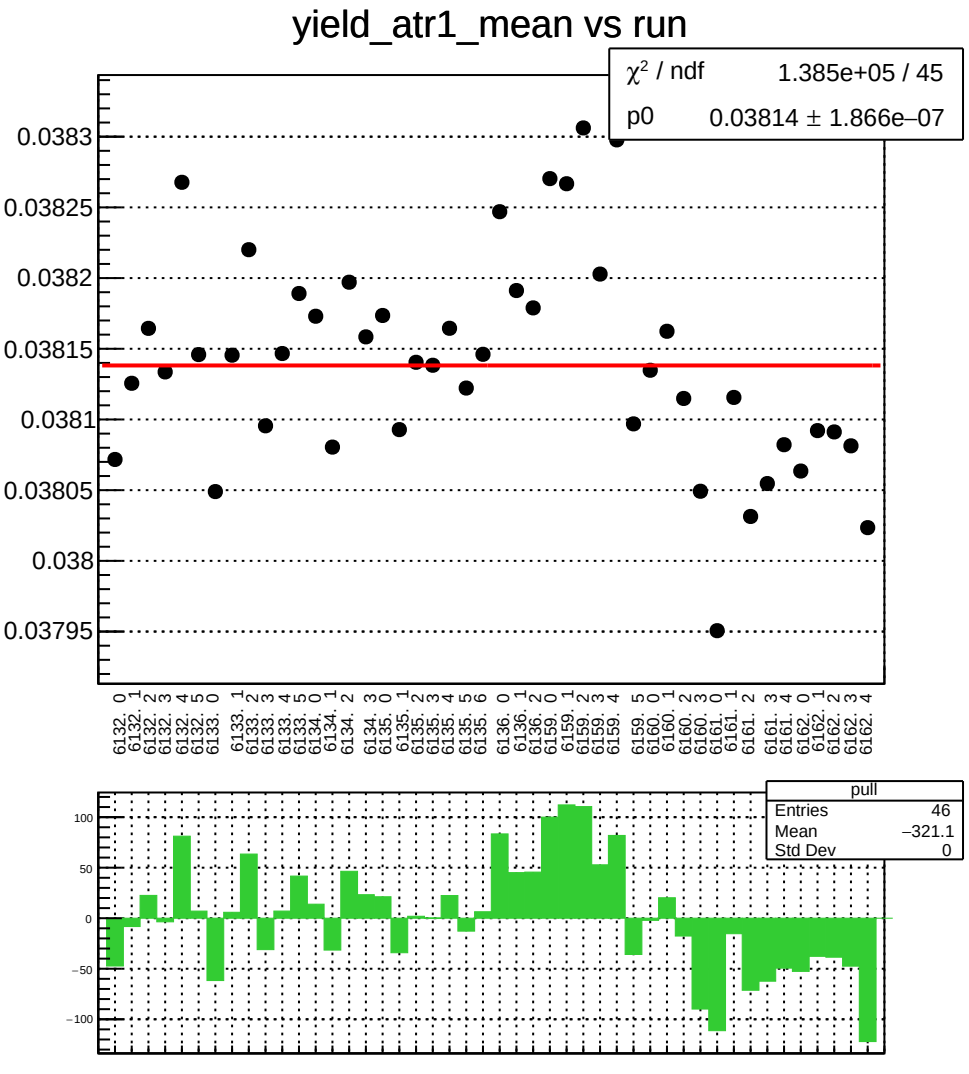

yield_dsr_rms vs run
χ² / ndf 2.968e+04 / 45
p0 0.06052 ± 6.42e−05
0.09
0.08
0.07
0.06
0.05
0.04
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

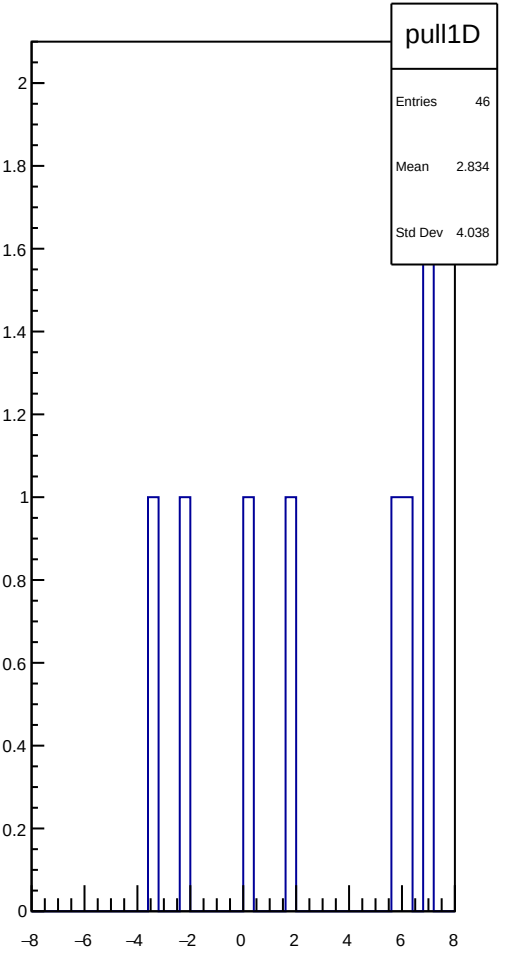

yield_atl1_mean vs run
χ² / ndf 7.197e+04 / 45
p0 0.02576 ± 1.115e−07
0.02586
0.02584
0.02582
0.0258
0.02578
0.02576
0.02574
0.02572
0.0257
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −244.7
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 46
Mean 1.42
Std Dev 5.1
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

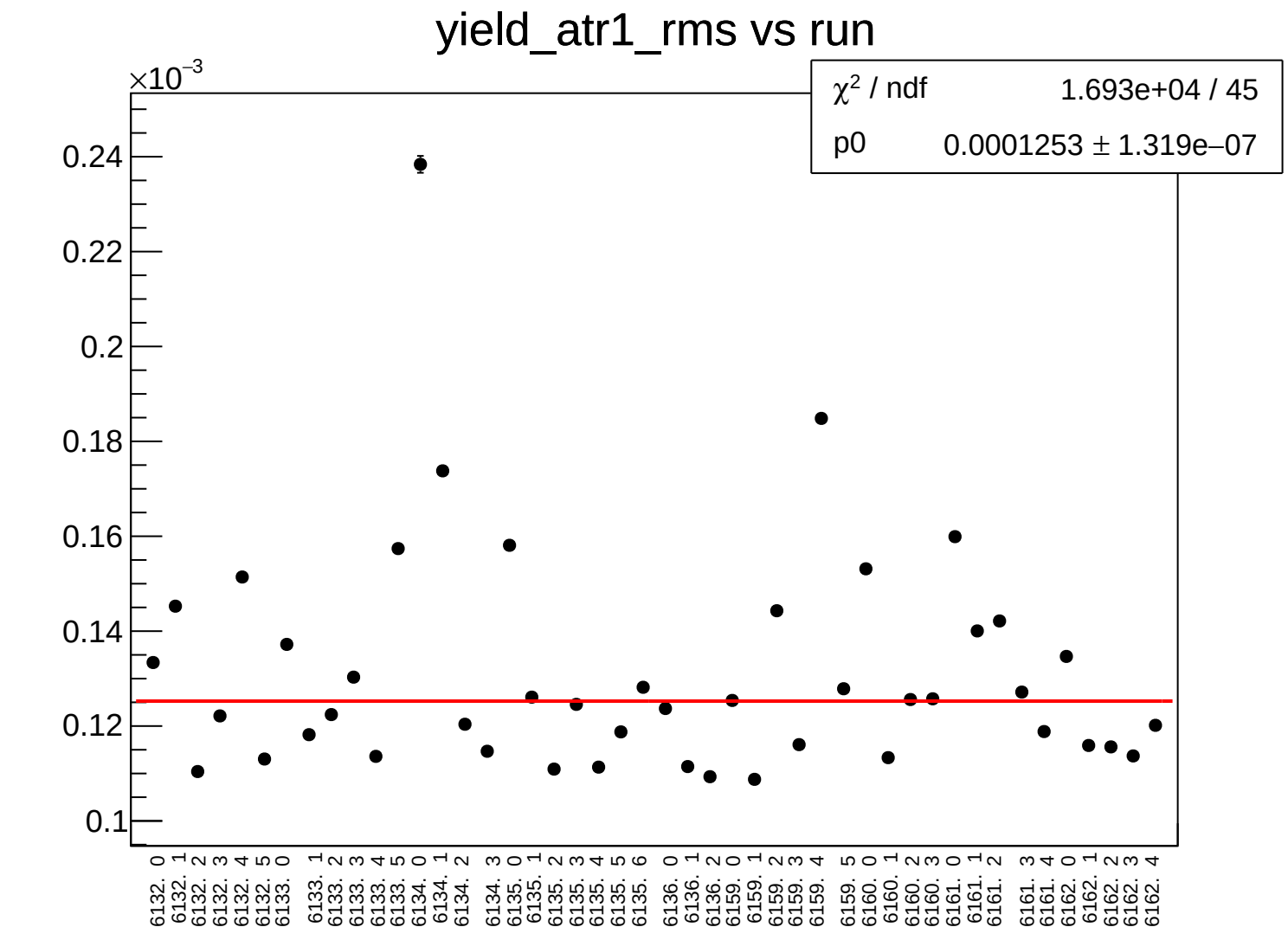

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.708e+04 / 45
p0 7.482e−05 ± 7.882e−08
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

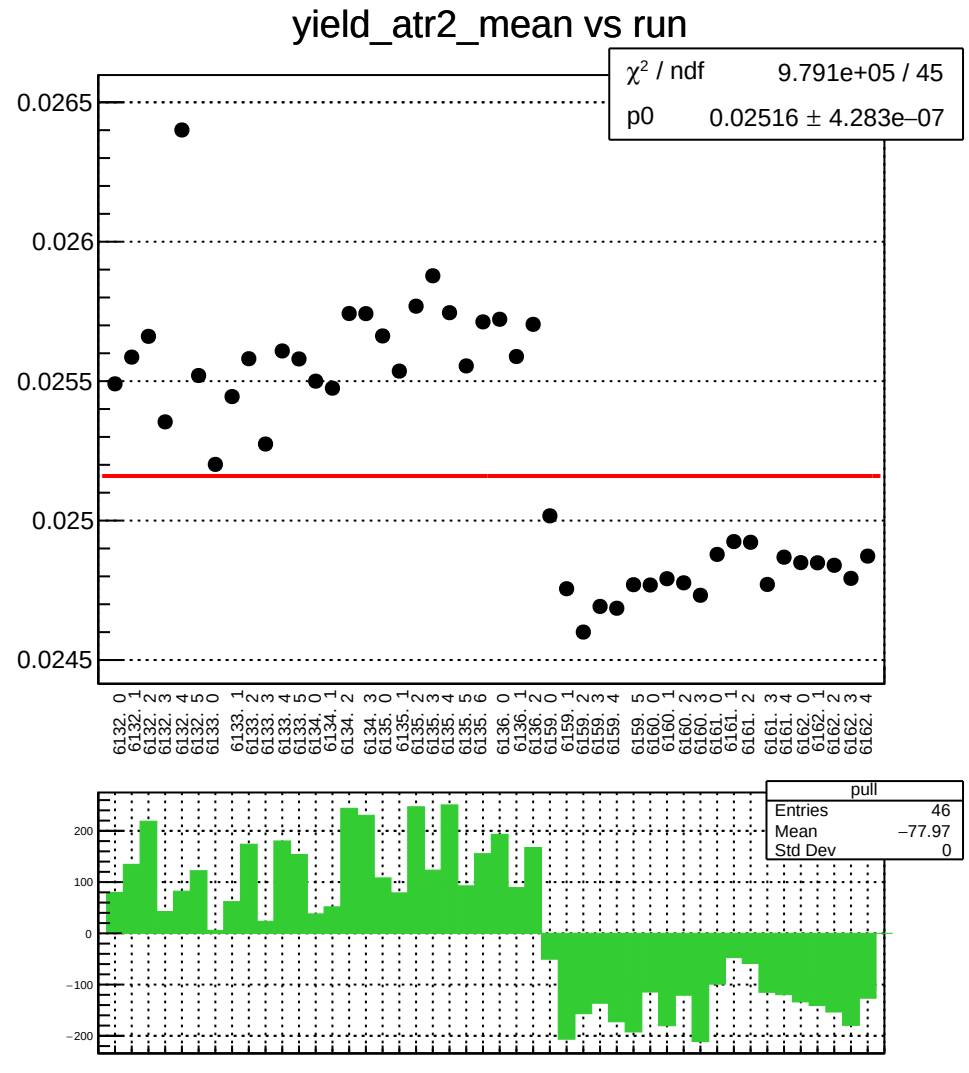

yield_atl2_mean vs run
χ² / ndf 1.44e+06 / 45
p0 0.04684 ± 5.155e−07
0.0485
0.048
0.0475
0.047
0.0465
0.046
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −110.7
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 46
Mean 0.432
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

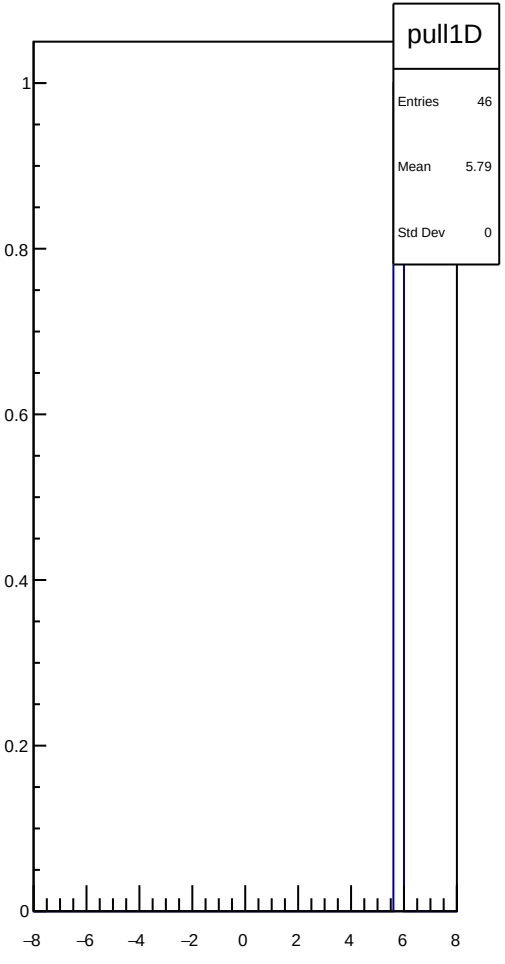

yield_atl2_rms vs run
χ² / ndf 7.694e+04 / 45
p0 0.0003343 ± 3.645e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

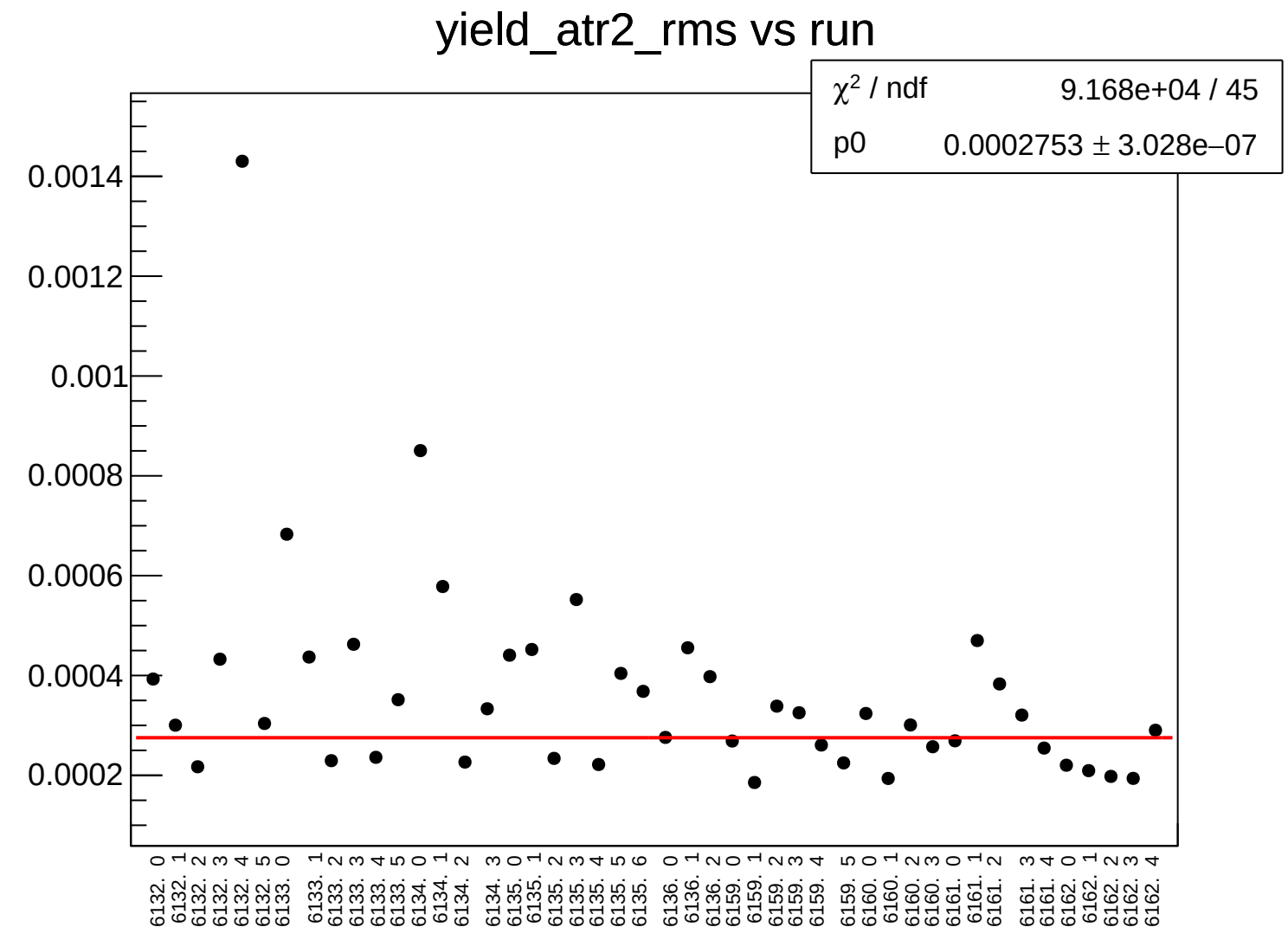

yield_atr1_mean vs run
χ² / ndf 1.385e+05 / 45
p0 0.03814 ± 1.866e−07
0.0383
0.03825
0.0382
0.03815
0.0381
0.03805
0.038
0.03795
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −321.1
Std Dev 0
100
50
0
−50
−100

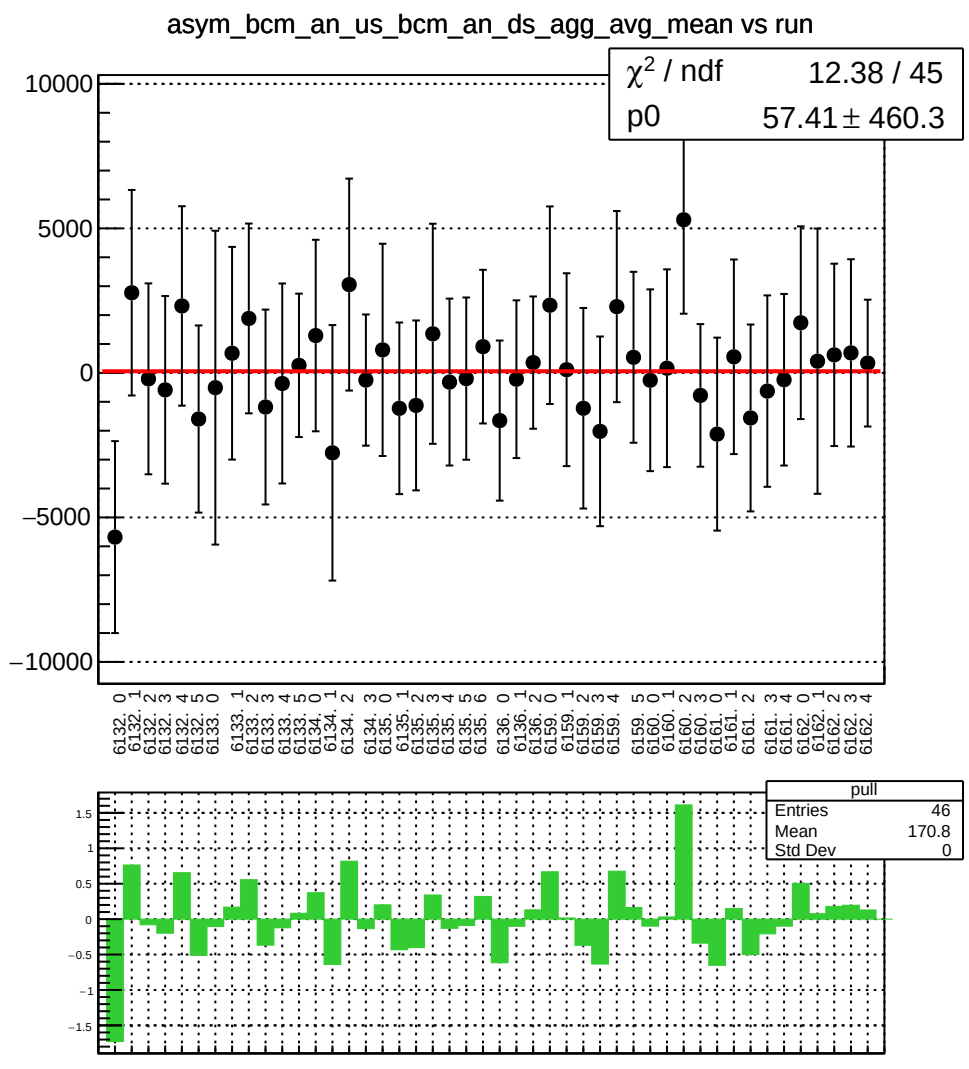

pull1D
Entries 46
Mean 2.834
Std Dev 4.038
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

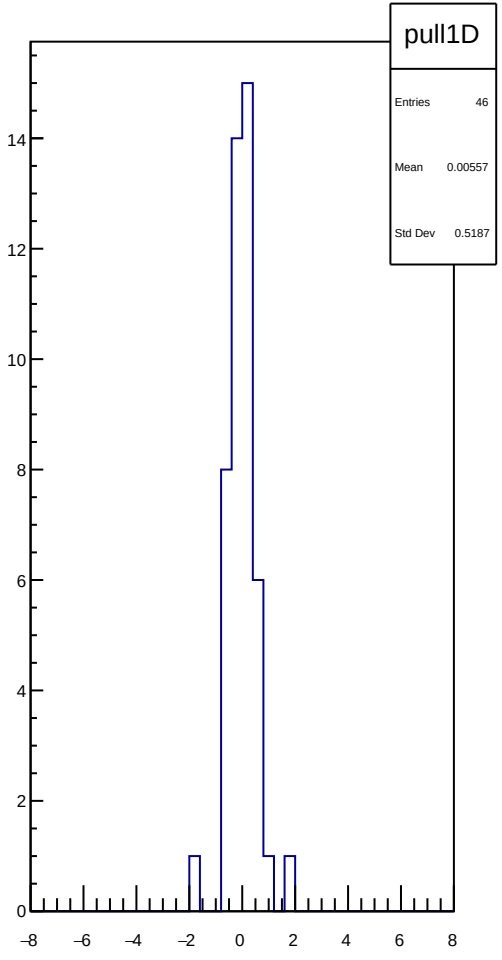

yield_atr1_rms vs run
×10⁻³
χ² / ndf 1.693e+04 / 45
p0 0.0001253 ± 1.319e−07
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

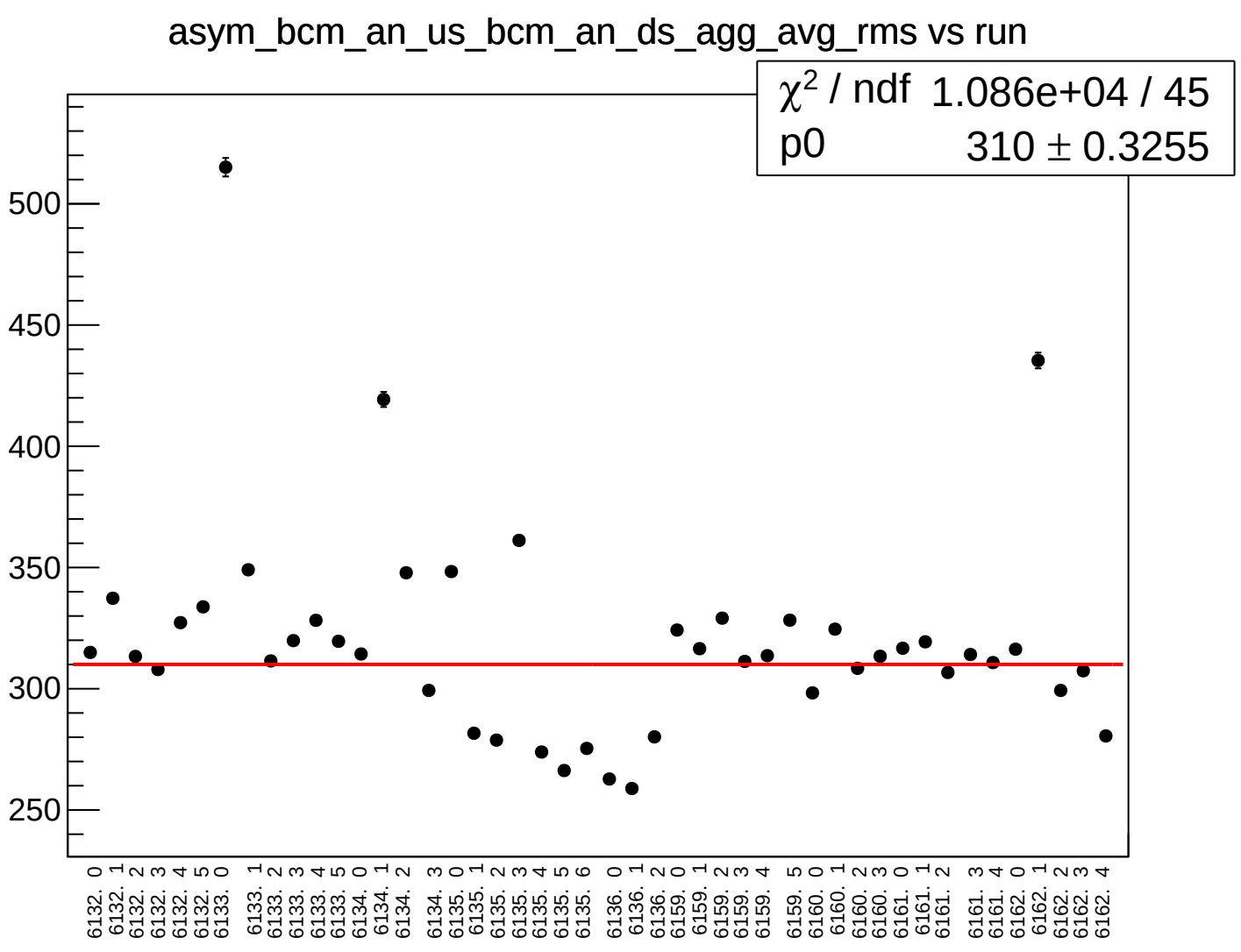

yield_atr2_mean vs run
χ² / ndf 9.791e+05 / 45
p0 0.02516 ± 4.283e−07
0.0265
0.026
0.0255
0.025
0.0245
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −77.97
Std Dev 0
200
100
0
−100
−200

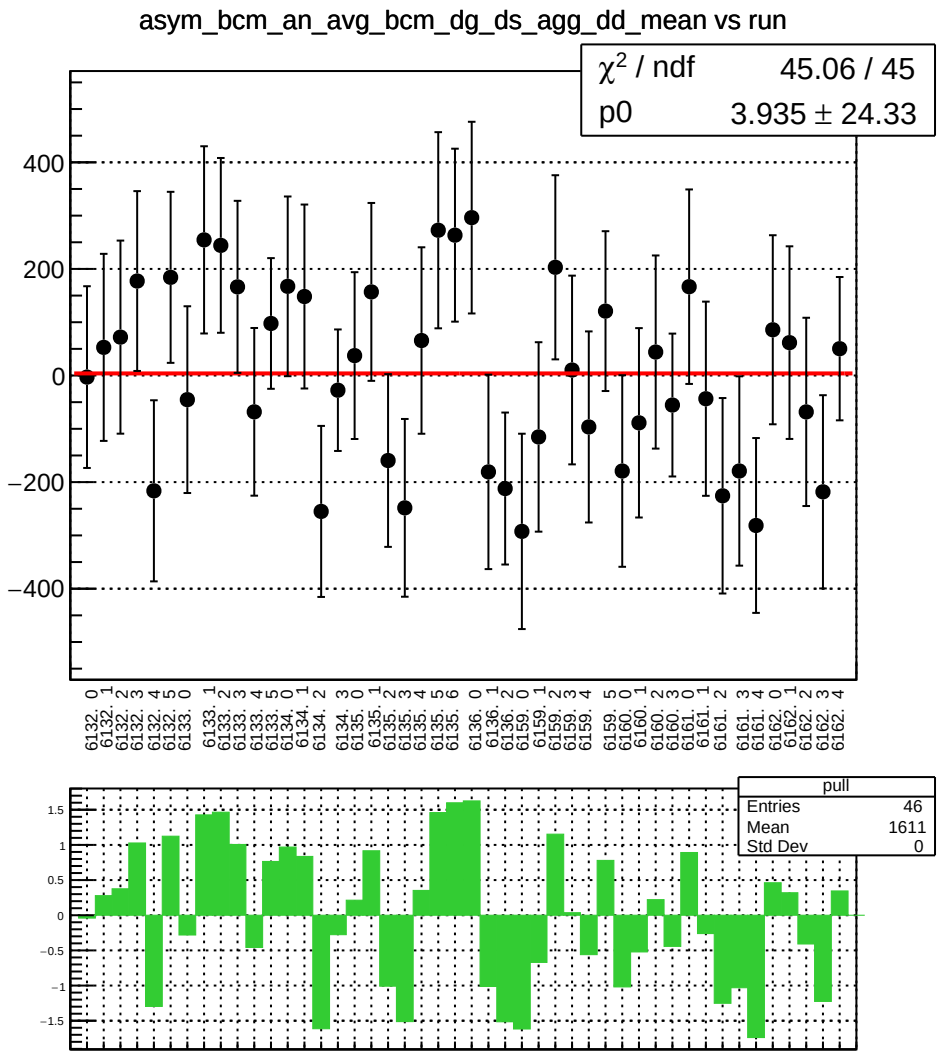

pull1D
Entries 46
Mean 5.79
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_atr2_rms vs run
χ² / ndf 9.168e+04 / 45
p0 0.0002753 ± 3.028e−07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 12.38 / 45
p0 57.41 ± 460.3
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 170.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 46
Mean 0.00557
Std Dev 0.5187
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 1.086e+04 / 45
p0 310 ± 0.3255
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 45.06 / 45
p0 3.935 ± 24.33
400
200
0
−200
−400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 1611
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.002461
Std Dev 0.9898
8
7
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5
4
3
2
1
0
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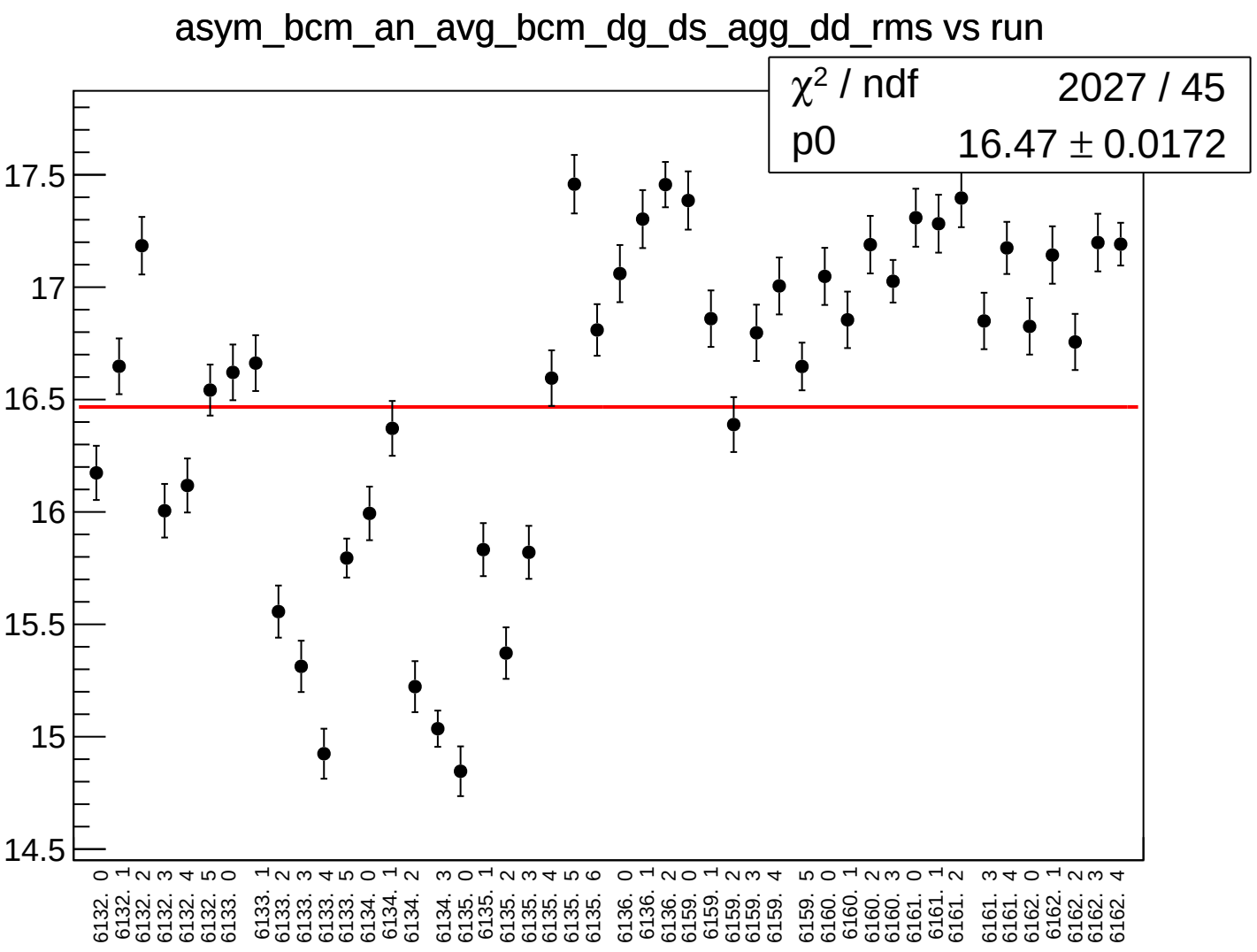
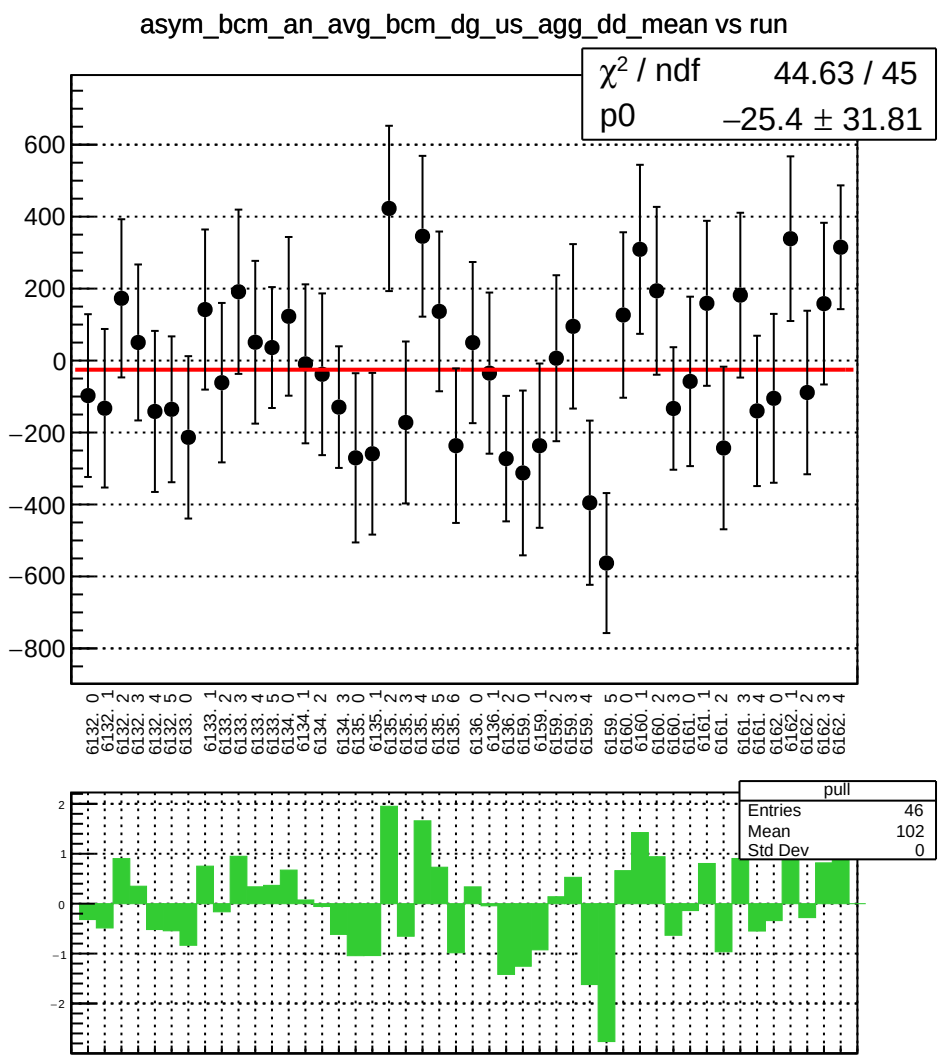
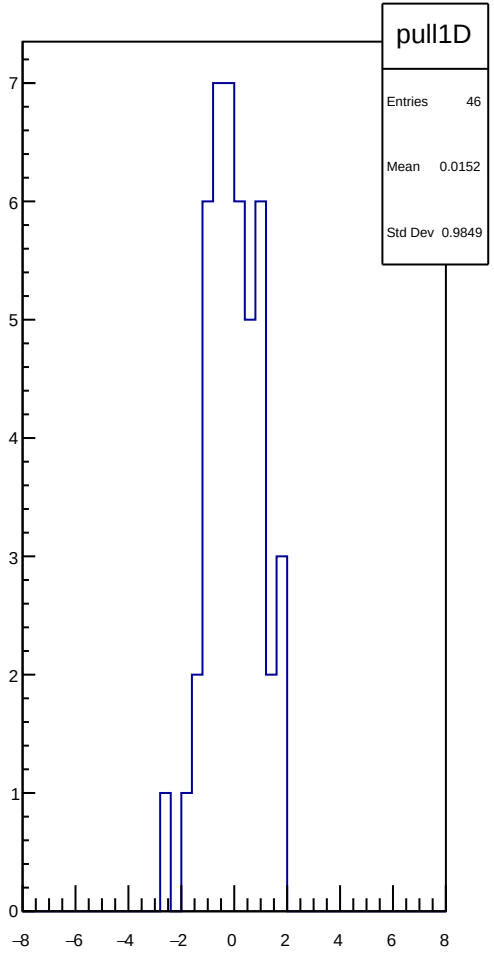
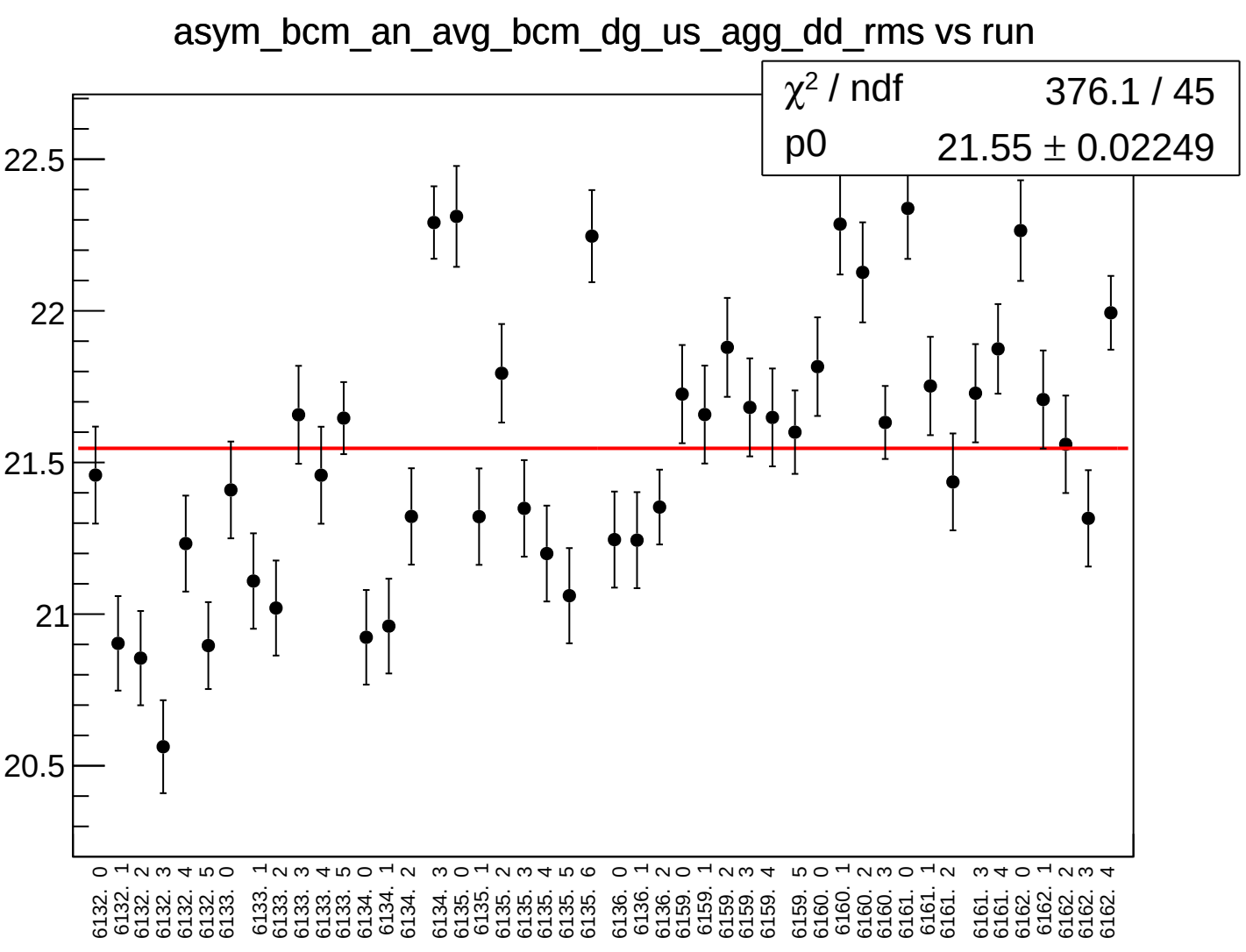
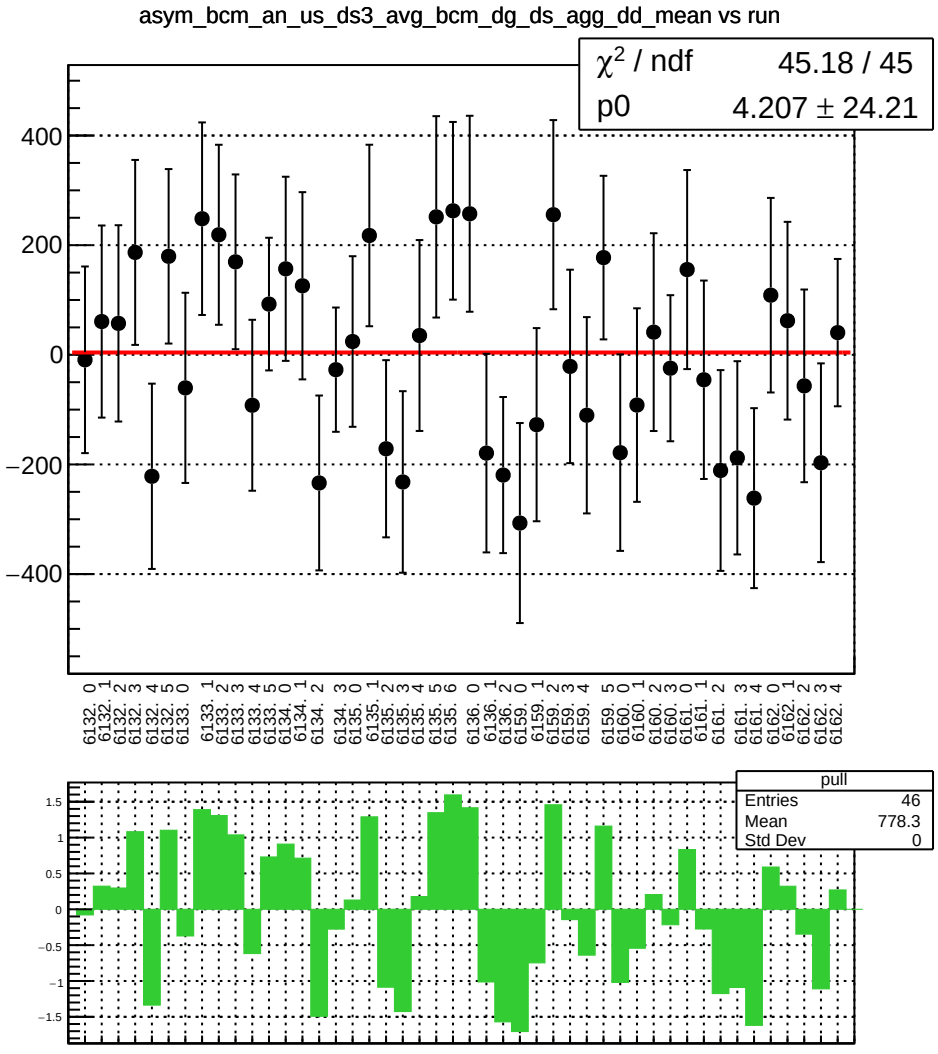
−6
−4
−2
0
2
4
6
8

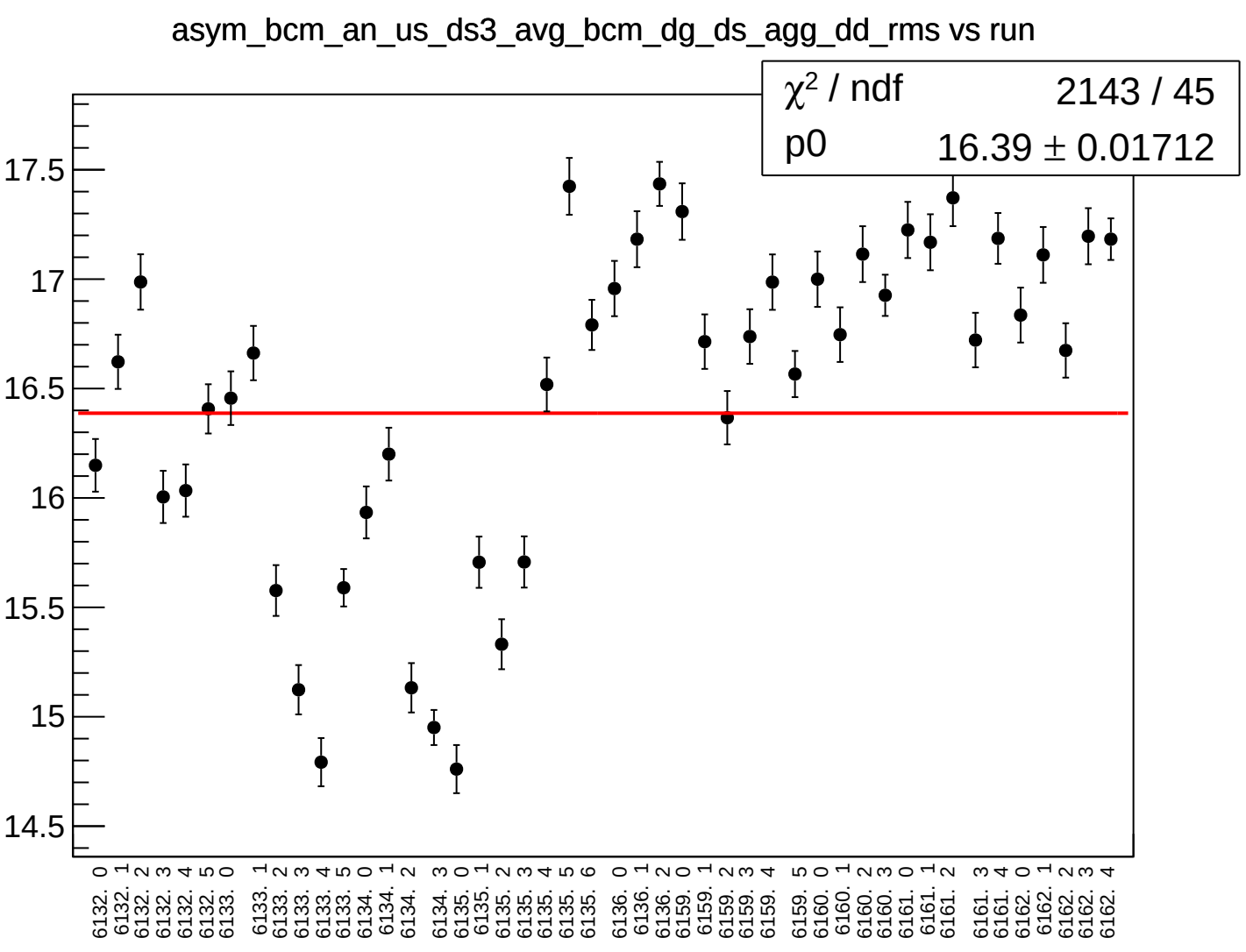

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2027 / 45
p0 16.47 ± 0.0172
17.5
17
16.5
16
15.5
15
14.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

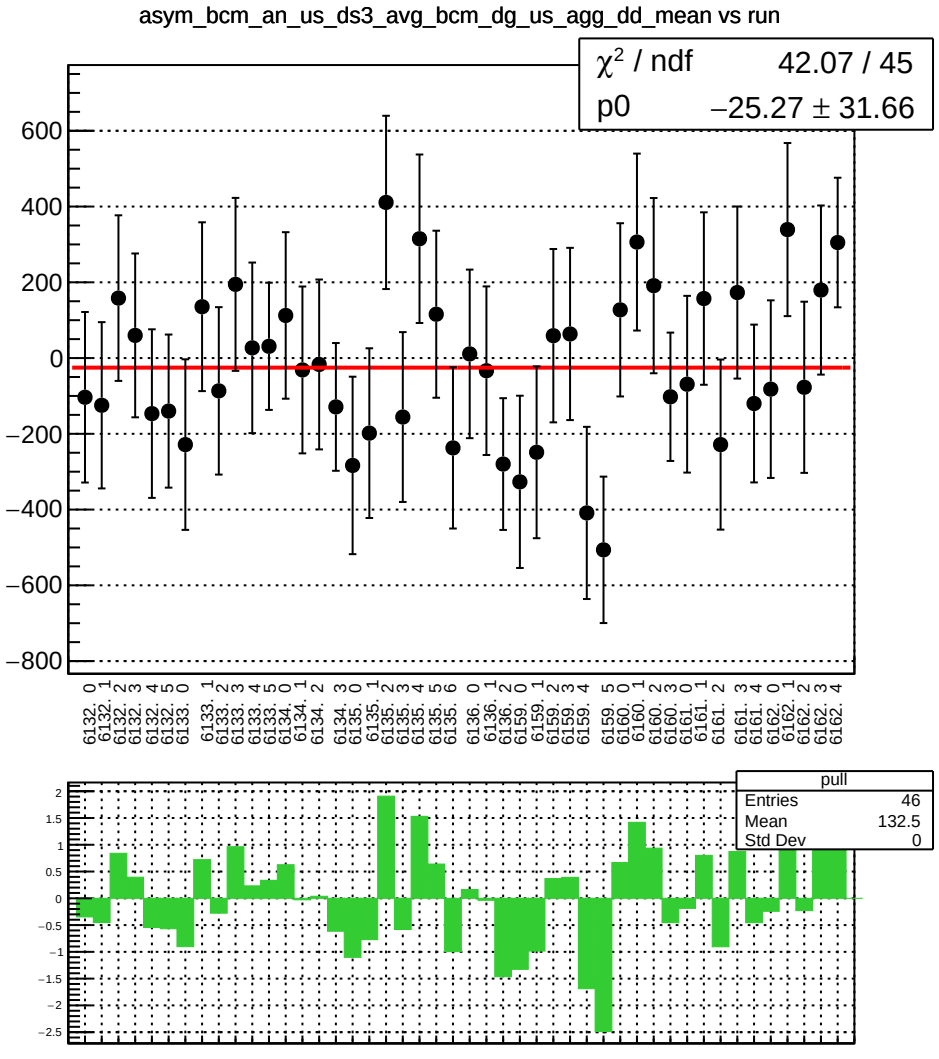

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 44.63 / 45
p0 −25.4 ± 31.81
600
400
200
0
−200
−400
−600
−800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 102
Std Dev 0
2
1
0
−1
−2

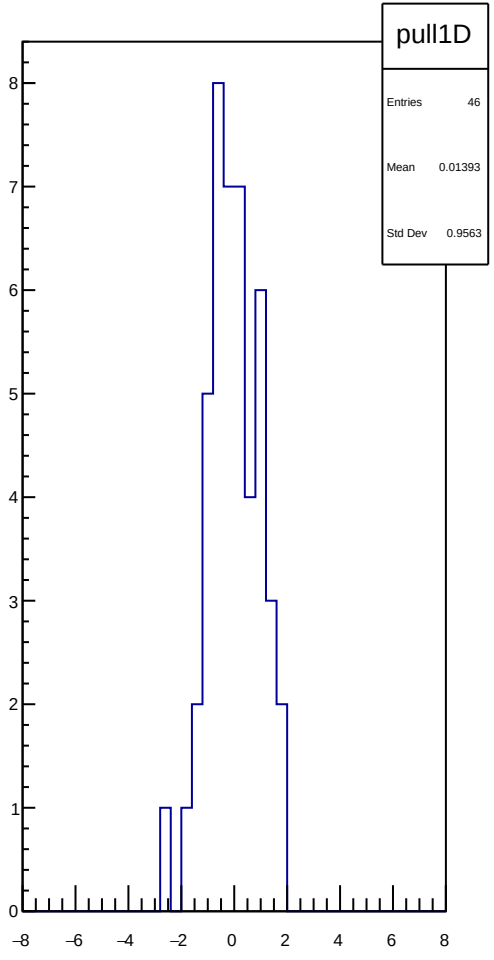

pull1D
Entries 46
Mean 0.0152
Std Dev 0.9849
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

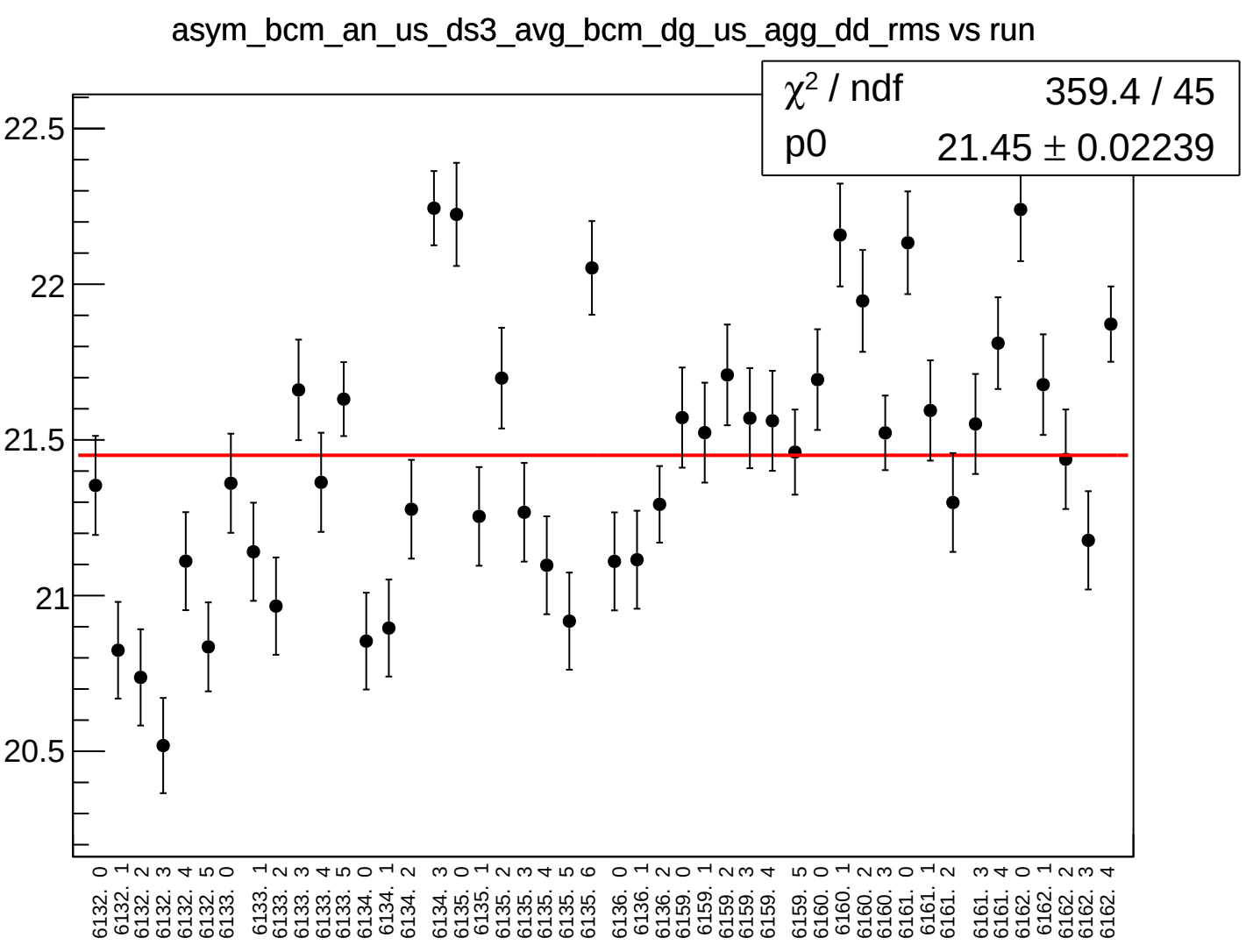

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 376.1 / 45
p0 21.55 ± 0.02249
22.5
22
21.5
21
20.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

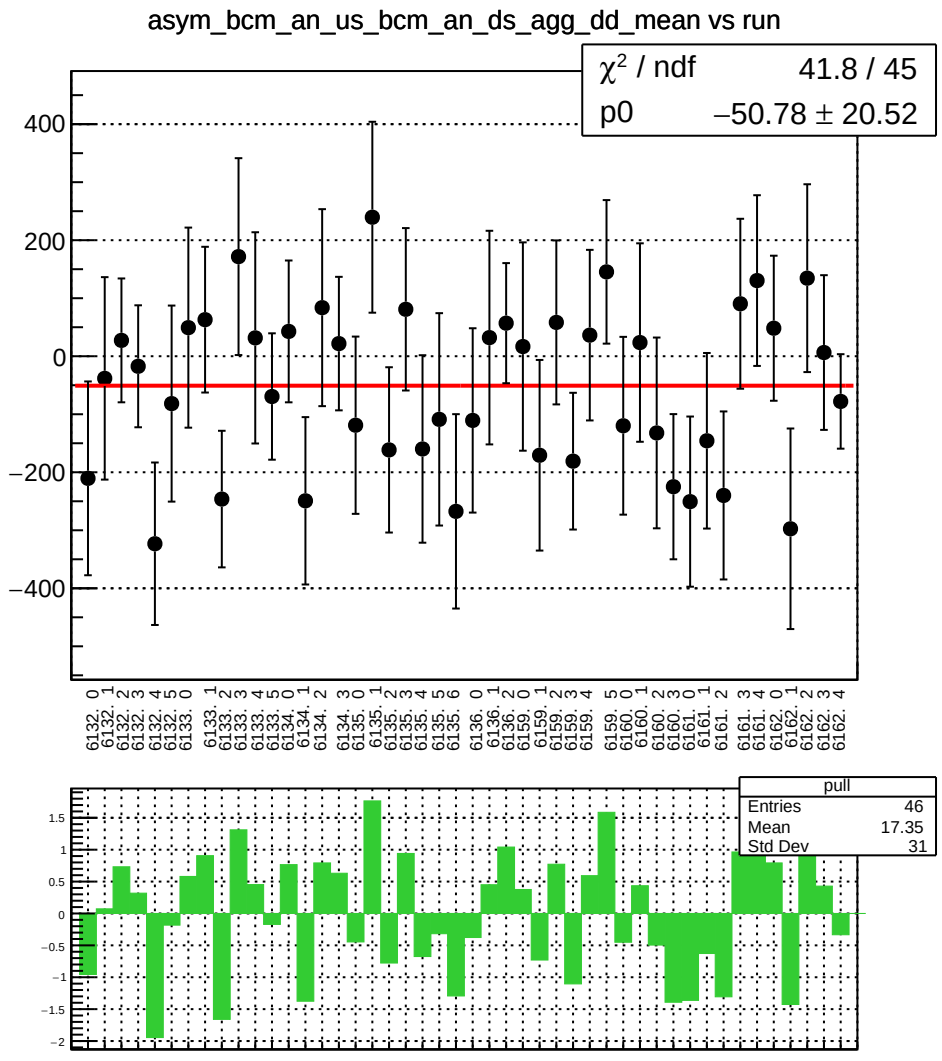

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 45.18 / 45
p0 4.207 ± 24.21
400
200
0
−200
−400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 778.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.004647
Std Dev 0.9911
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

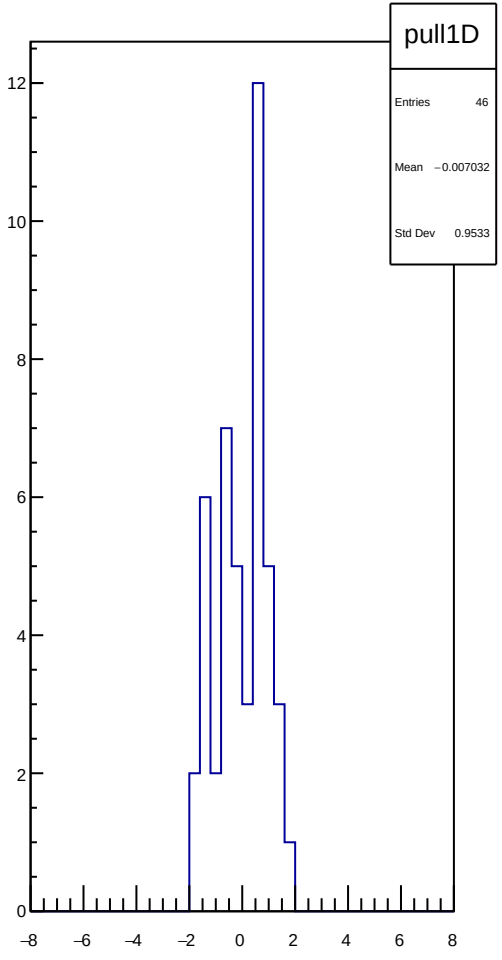

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2143 / 45
p0 16.39 ± 0.01712
17.5
17
16.5
16
15.5
15
14.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

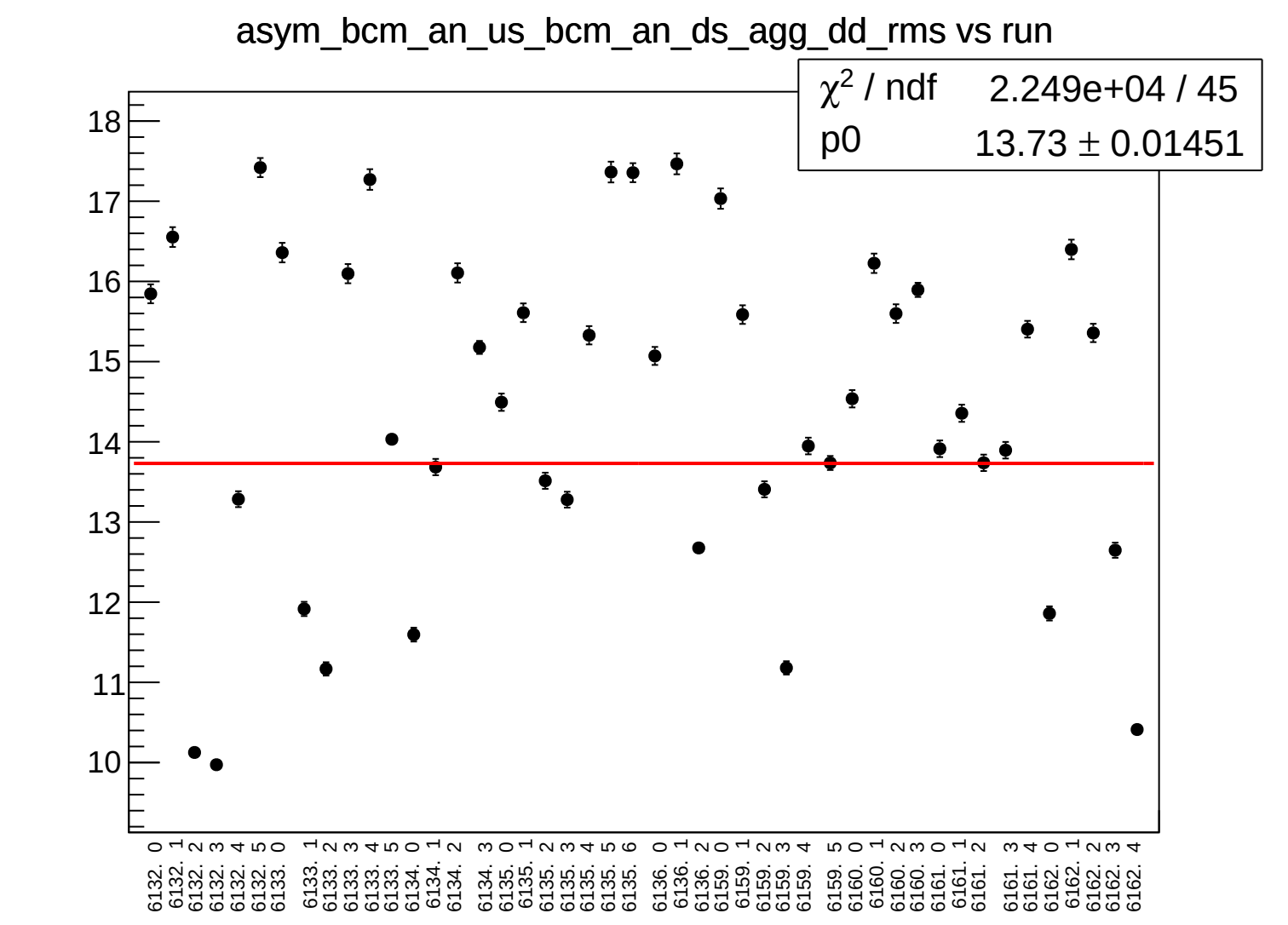

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 42.07 / 45
p0 −25.27 ± 31.66
pull
Entries 46
Mean 132.5
Std Dev 0

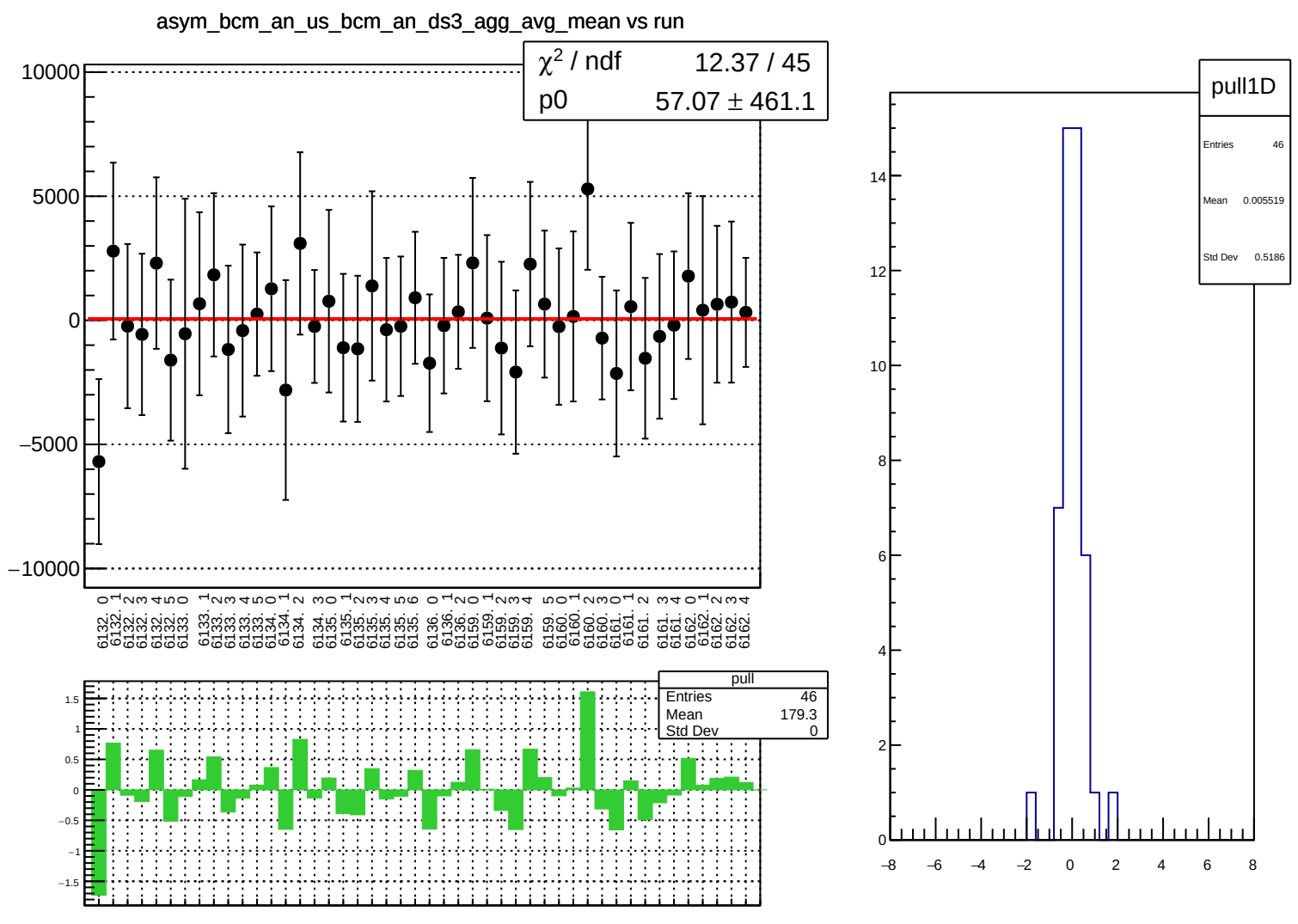

pull1D
Entries 46
Mean 0.01393
Std Dev 0.9563


asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 359.4 / 45
p0 21.45 ± 0.02239
22.5
22
21.5
21
20.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 41.8 / 45
p0 −50.78 ± 20.52
400
200
0
−200
−400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 17.35
Std Dev 31
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean −0.007032
Std Dev 0.9533
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.249e+04 / 45
p0 13.73 ± 0.01451
18
17
16
15
14
13
12
11
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 12.37 / 45
p0 57.07 ± 461.1
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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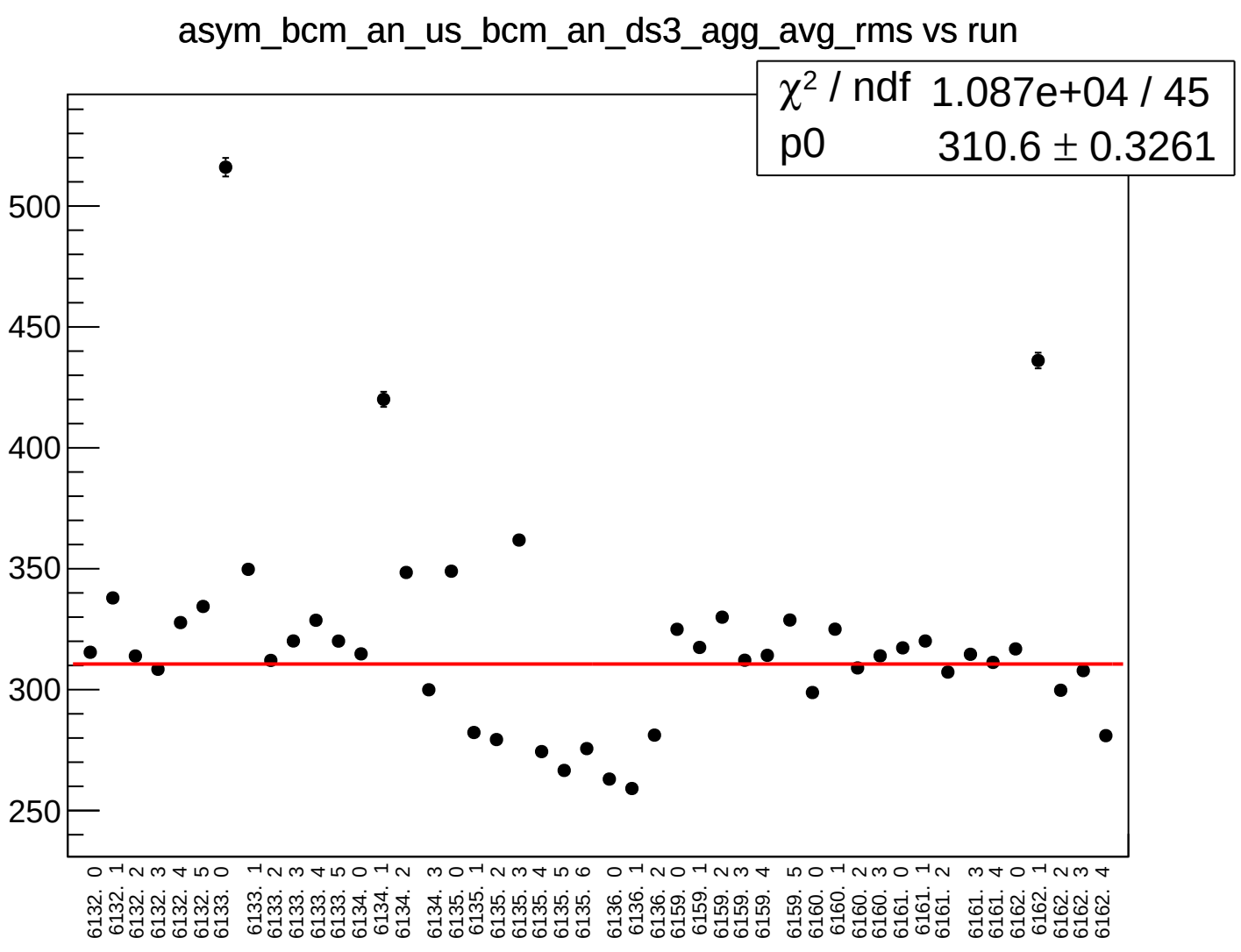
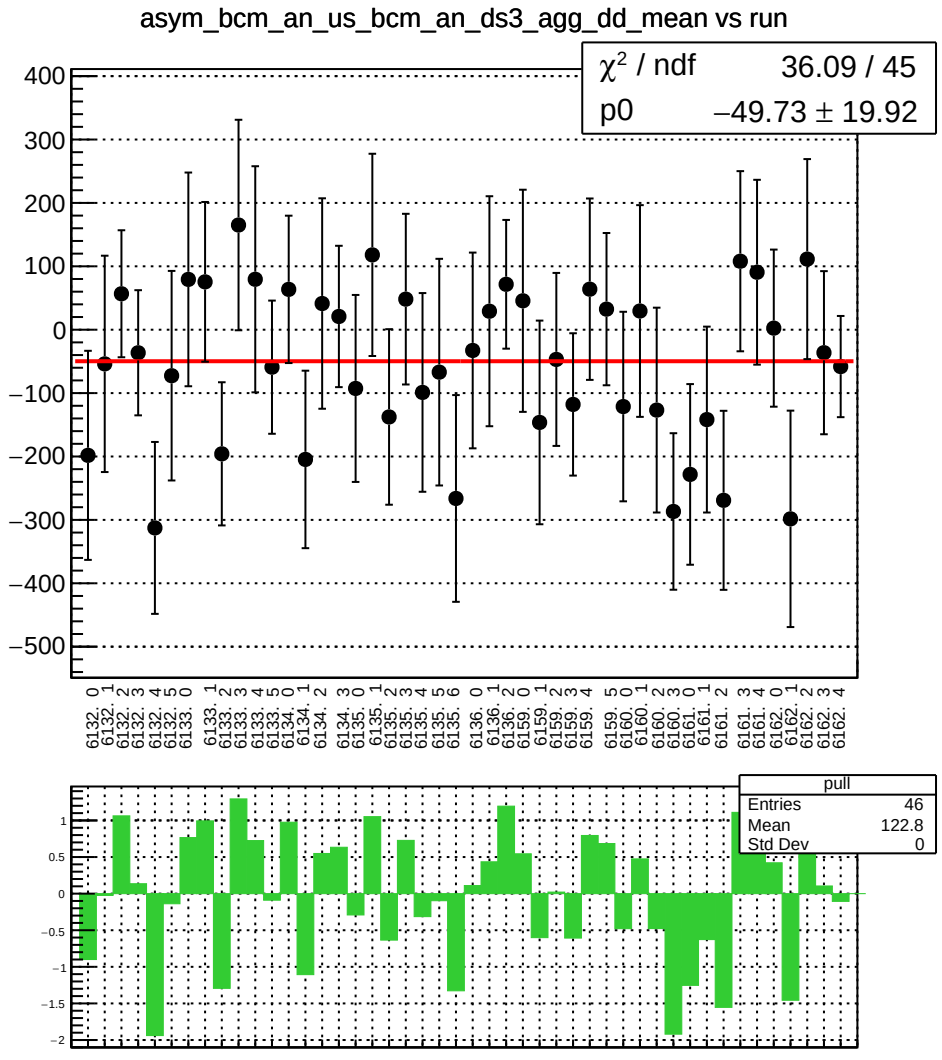
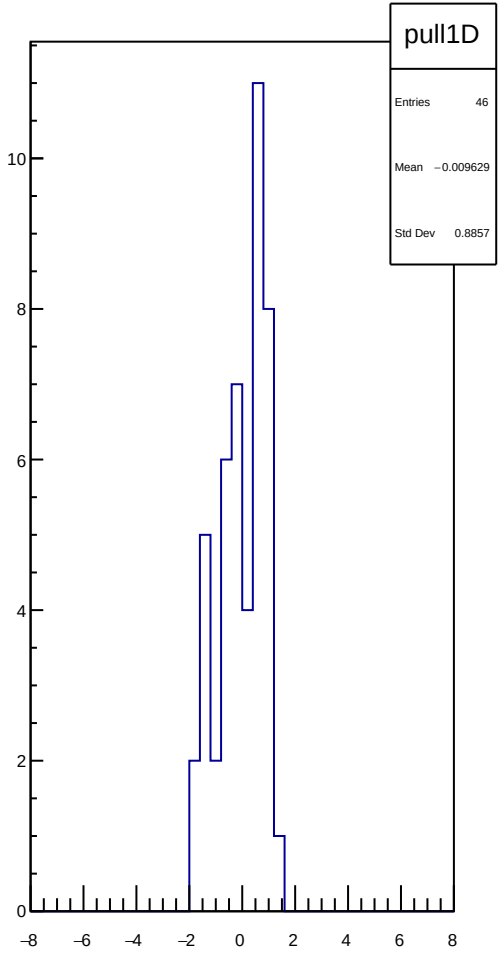
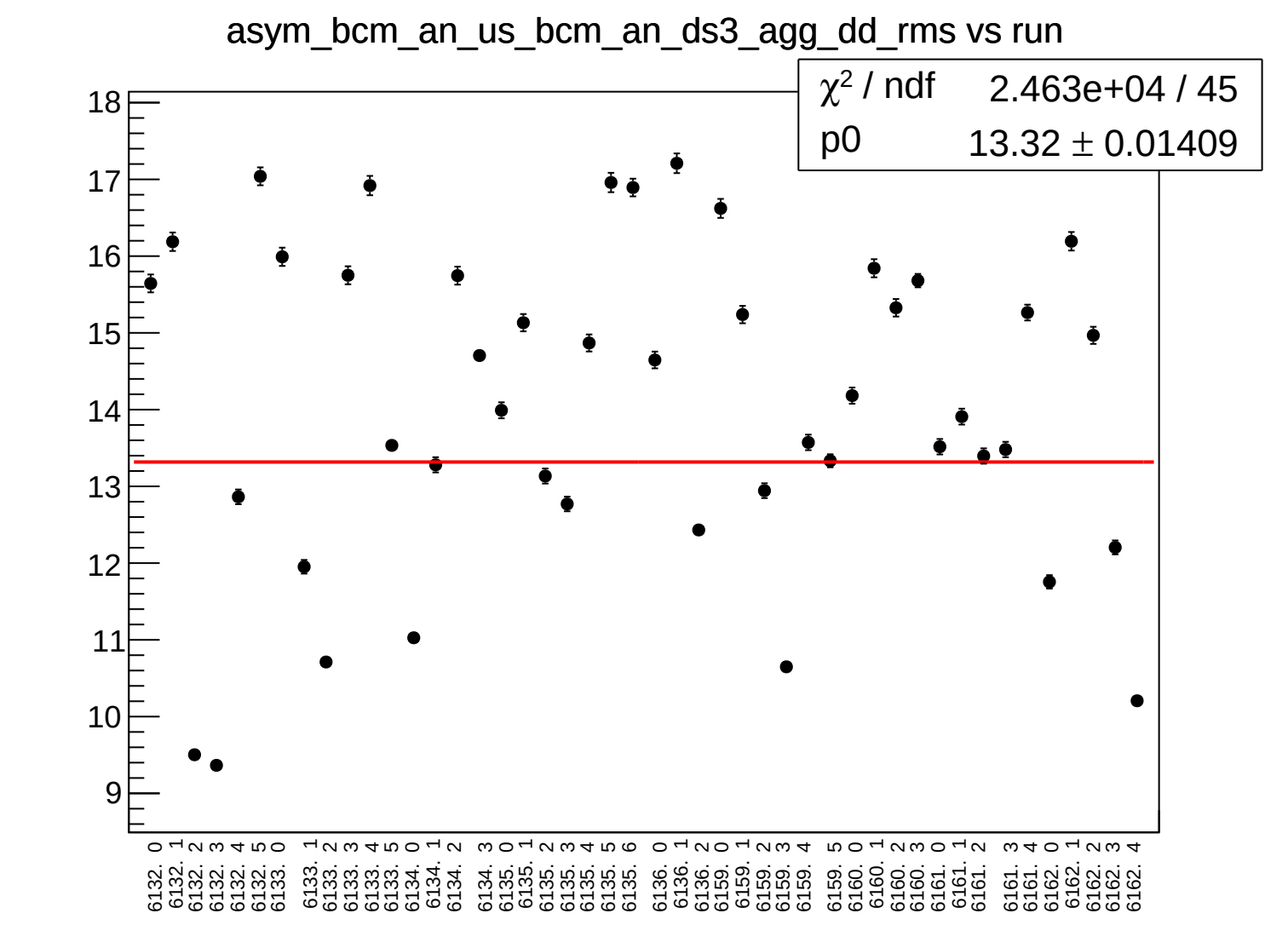
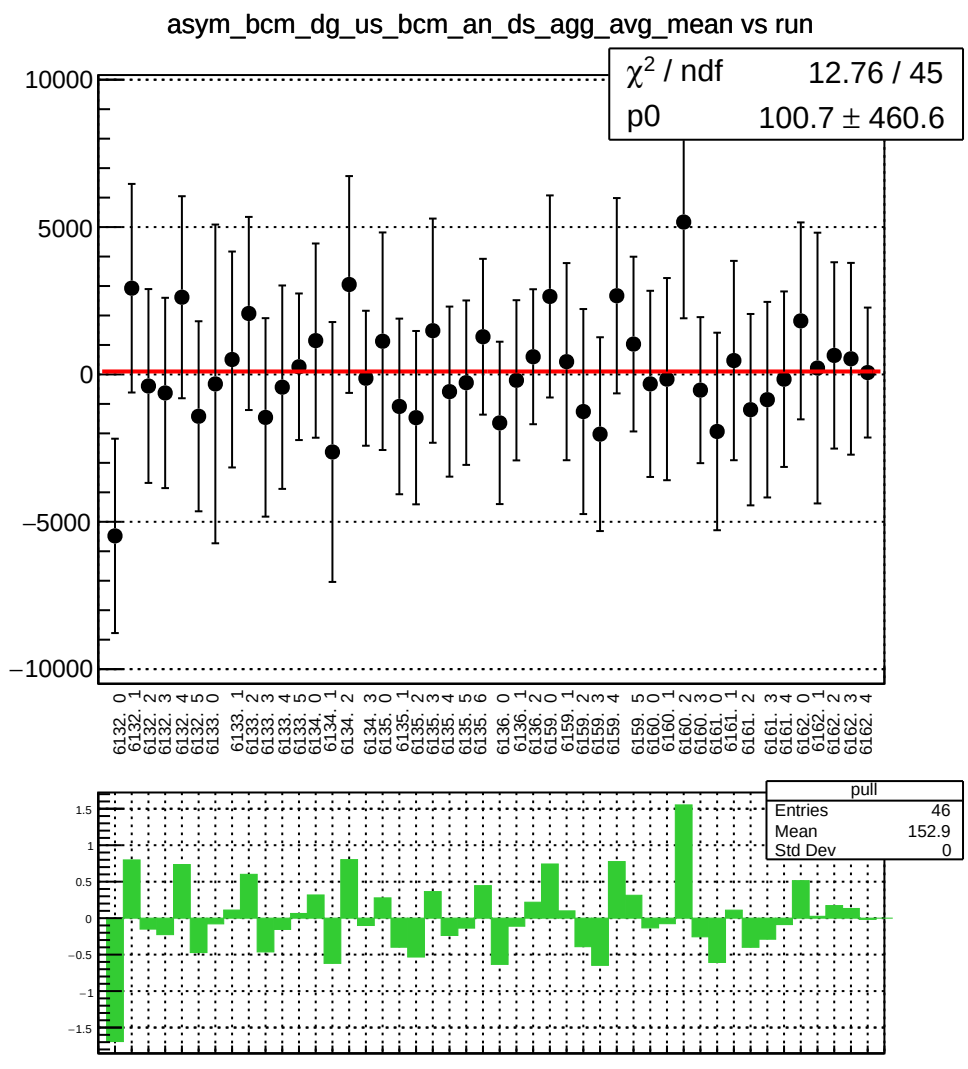
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 179.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.005519
Std Dev 0.5186
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.087e+04 / 45
p0 310.6 ± 0.3261
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 36.09 / 45
p0 −49.73 ± 19.92
pull
Entries 46
Mean 122.8
Std Dev 0


pull1D
Entries 46
Mean −0.009629
Std Dev 0.8857


asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2.463e+04 / 45
p0 13.32 ± 0.01409
18
17
16
15
14
13
12
11
10
9
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 12.76 / 45
p0 100.7 ± 460.6
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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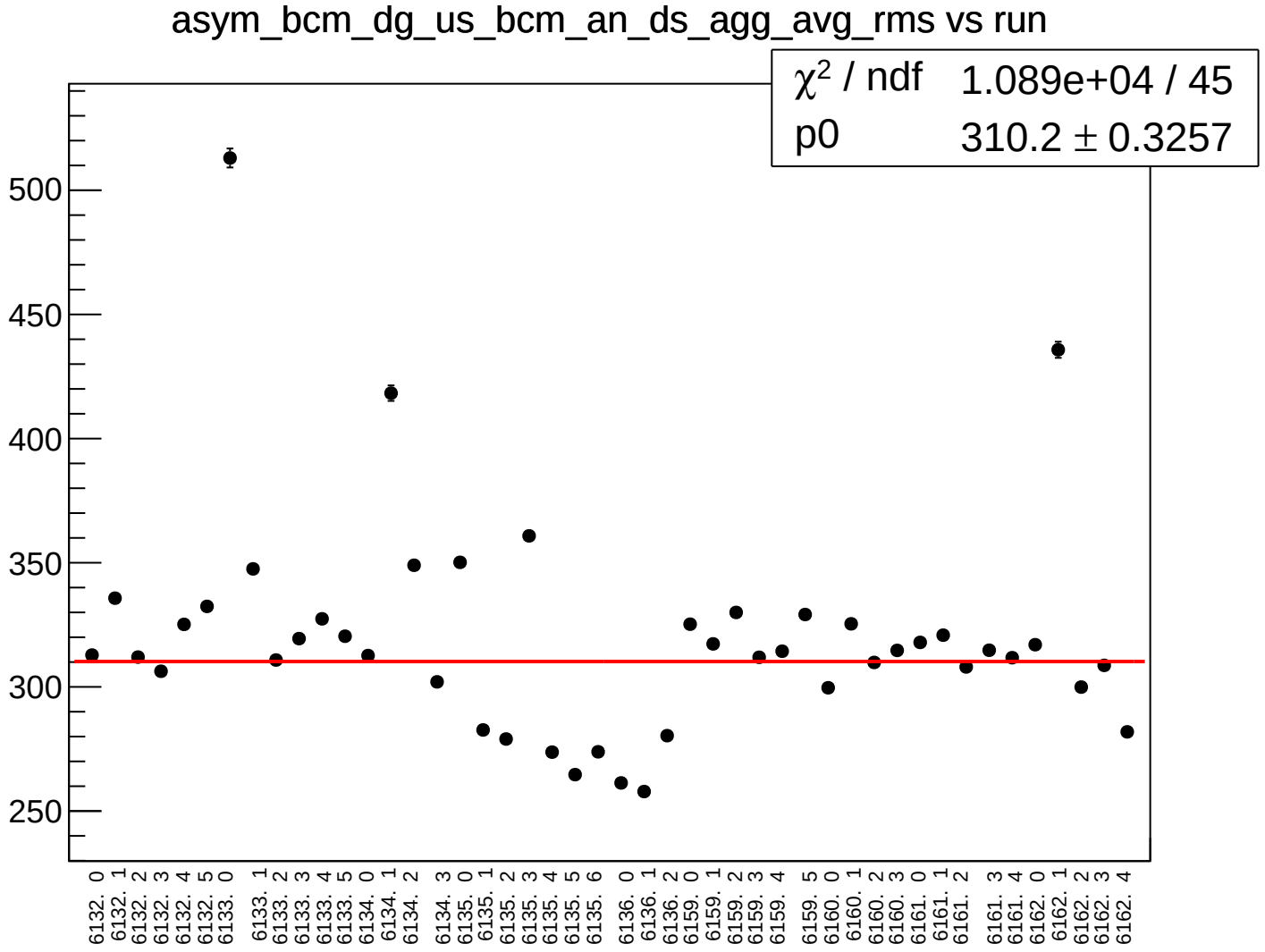
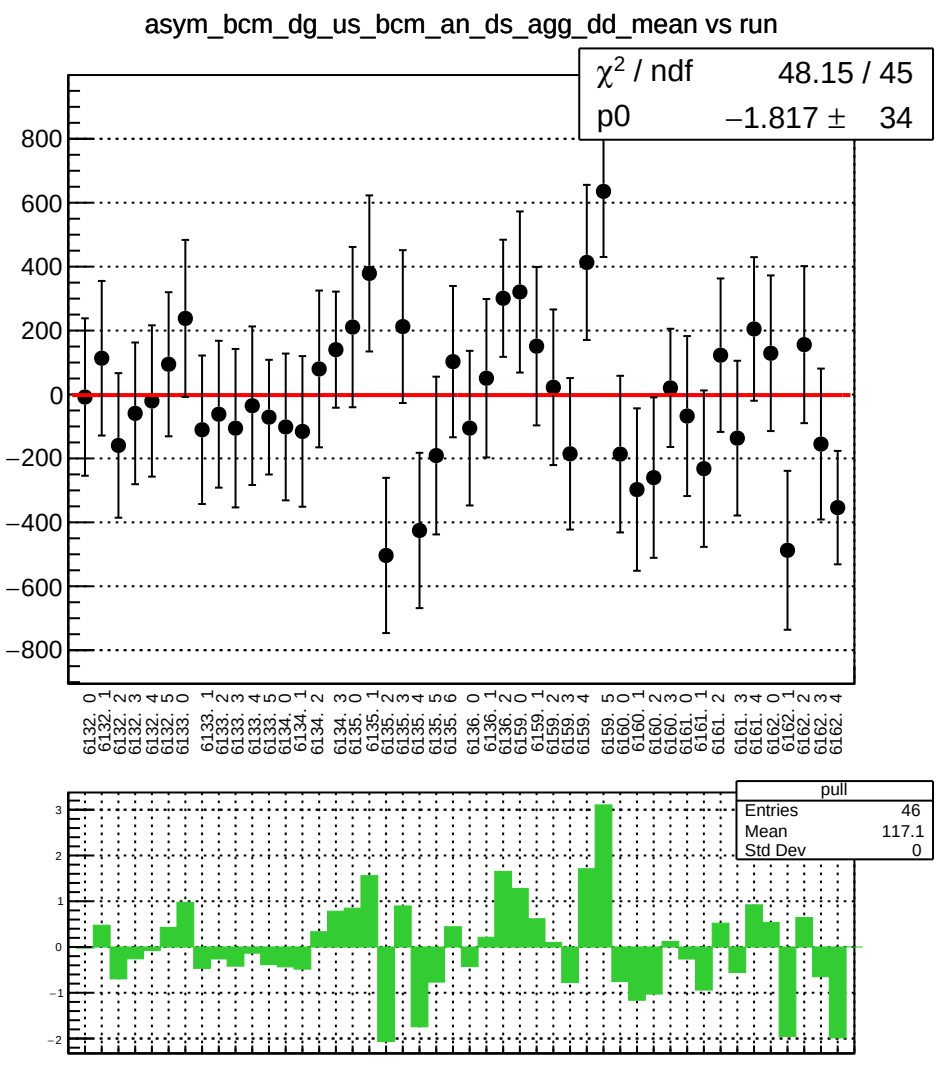
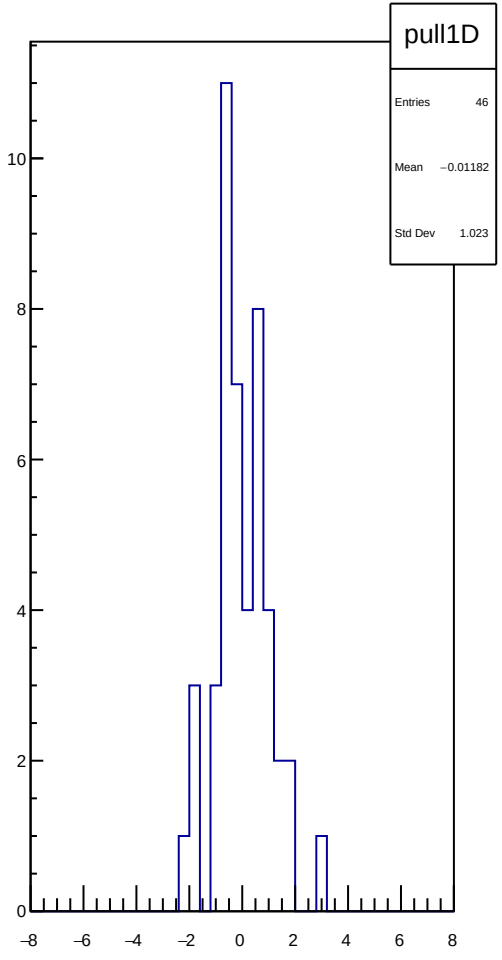
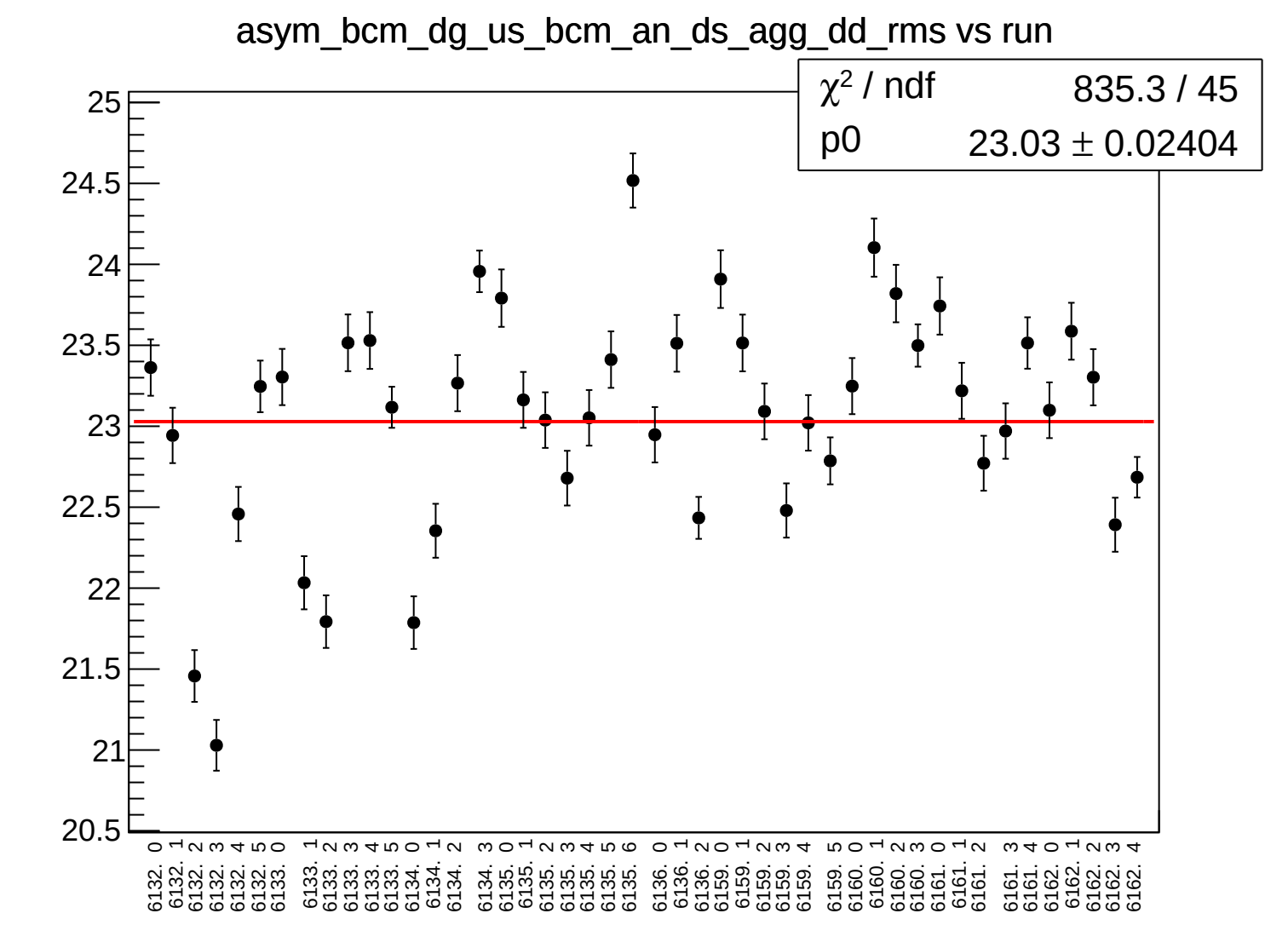
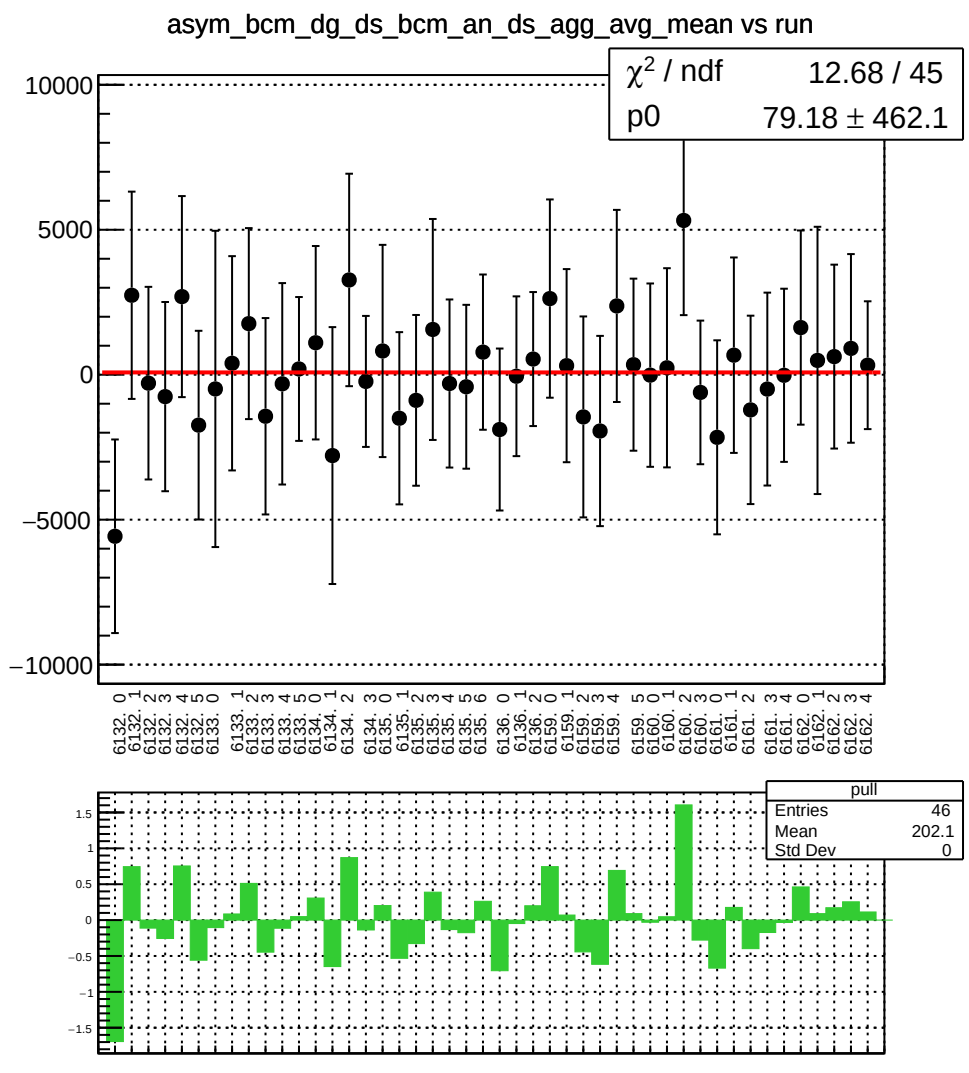
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 152.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.005797
Std Dev 0.5266
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

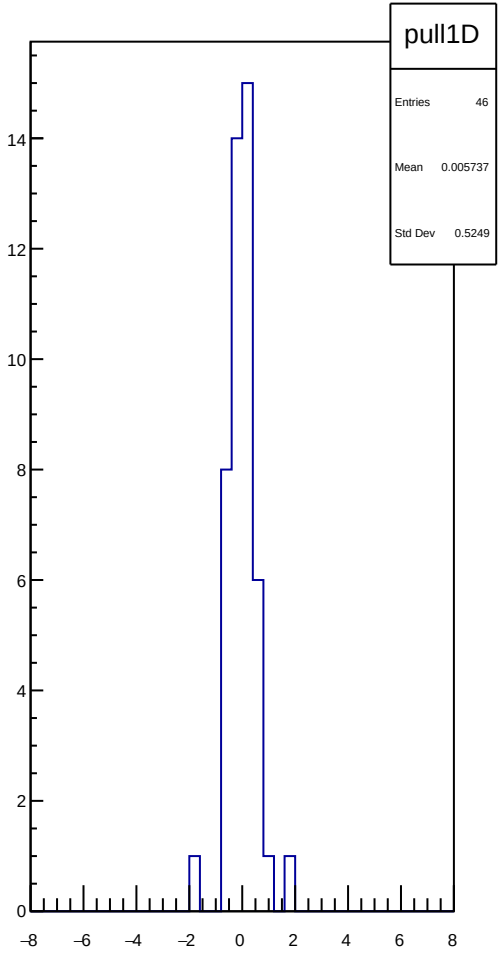

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.089e+04 / 45
p0 310.2 ± 0.3257
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

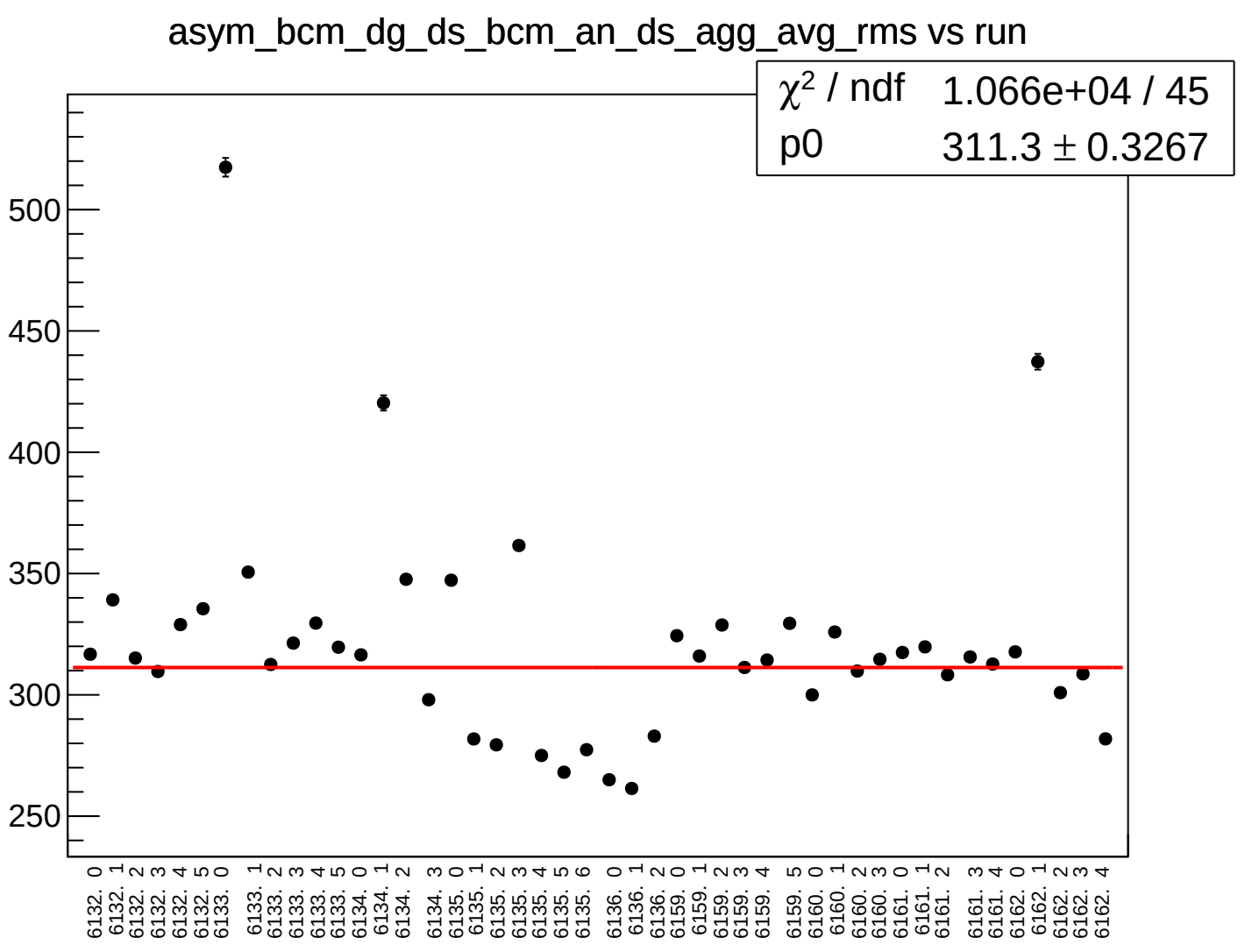

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 48.15 / 45
p0 −1.817 ± 34
pull
Entries 46
Mean 117.1
Std Dev 0

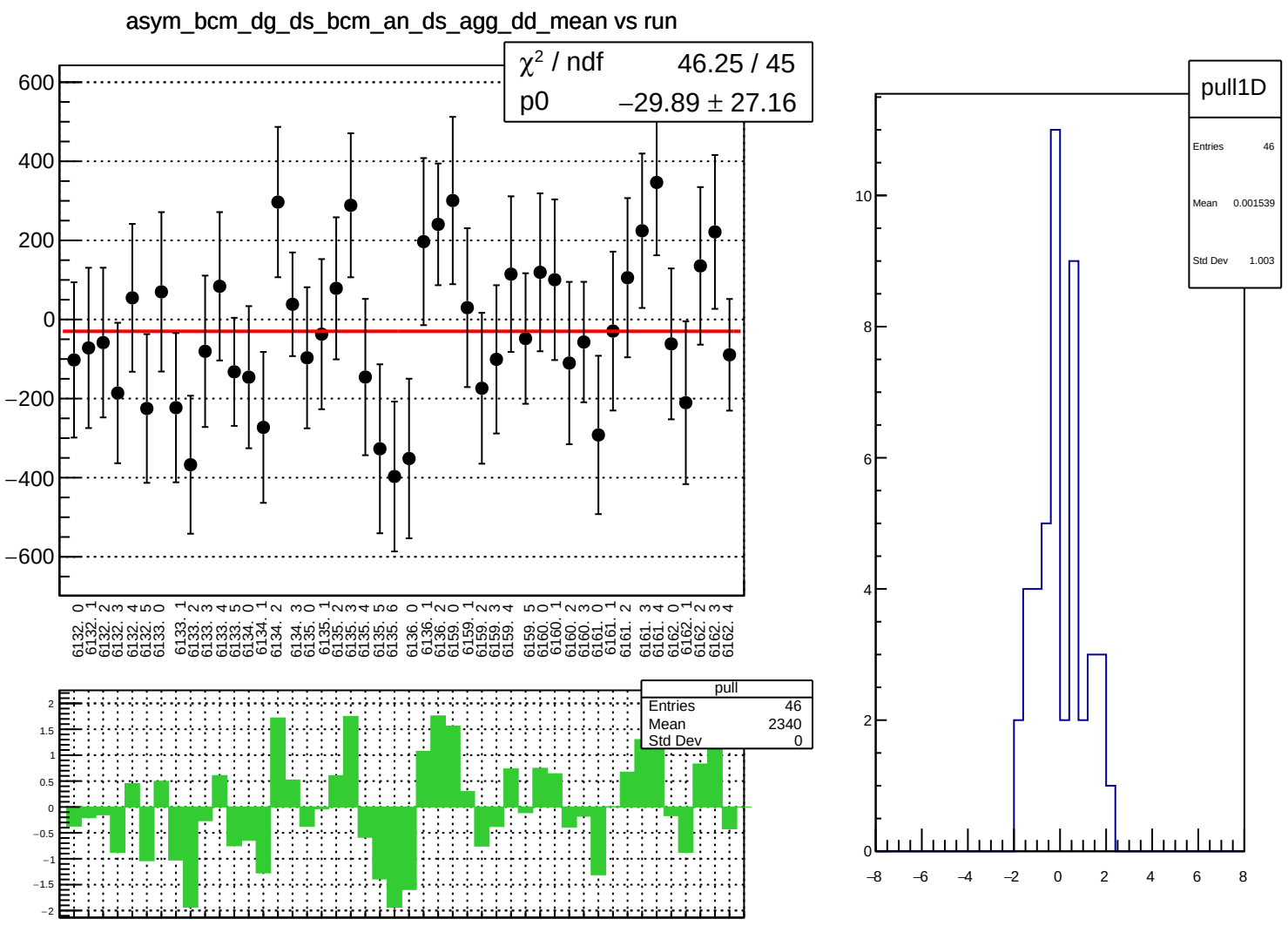

pull1D
Entries 46
Mean −0.01182
Std Dev 1.023

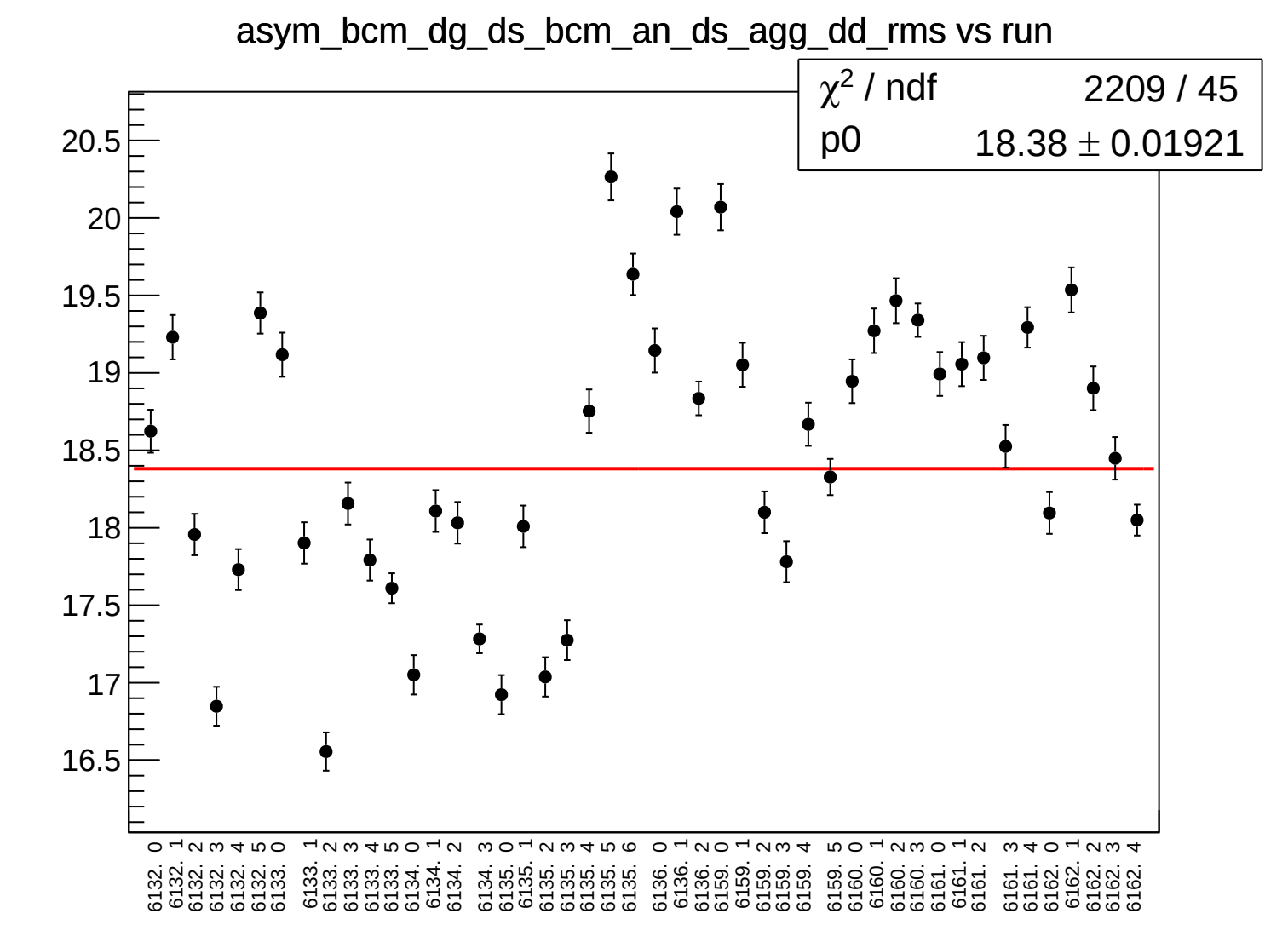

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 835.3 / 45
p0 23.03 ± 0.02404
25
24.5
24
23.5
23
22.5
22
21.5
21
20.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

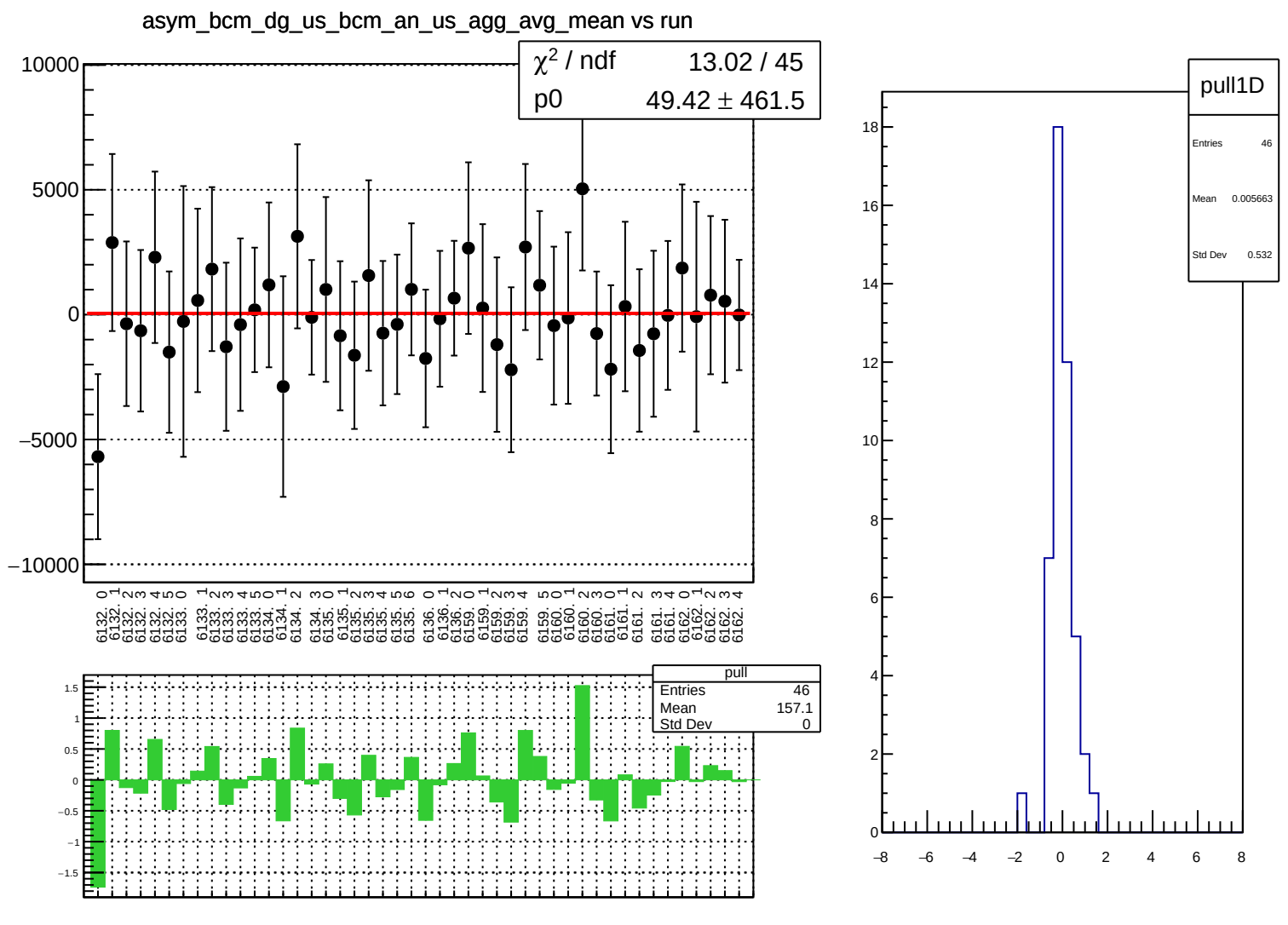

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 12.68 / 45
p0 79.18 ± 462.1
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 202.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

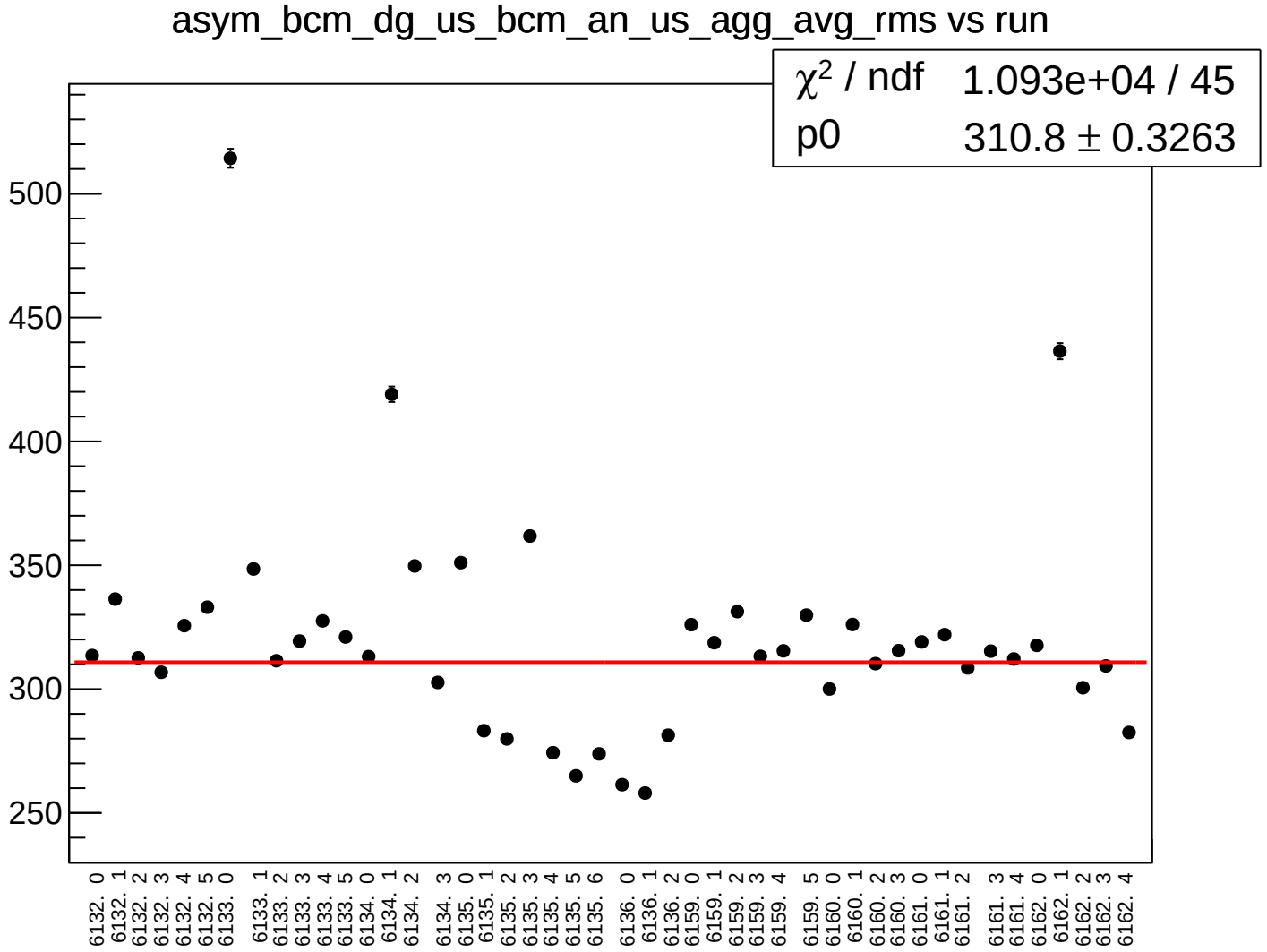

pull1D
Entries 46
Mean 0.005737
Std Dev 0.5249
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

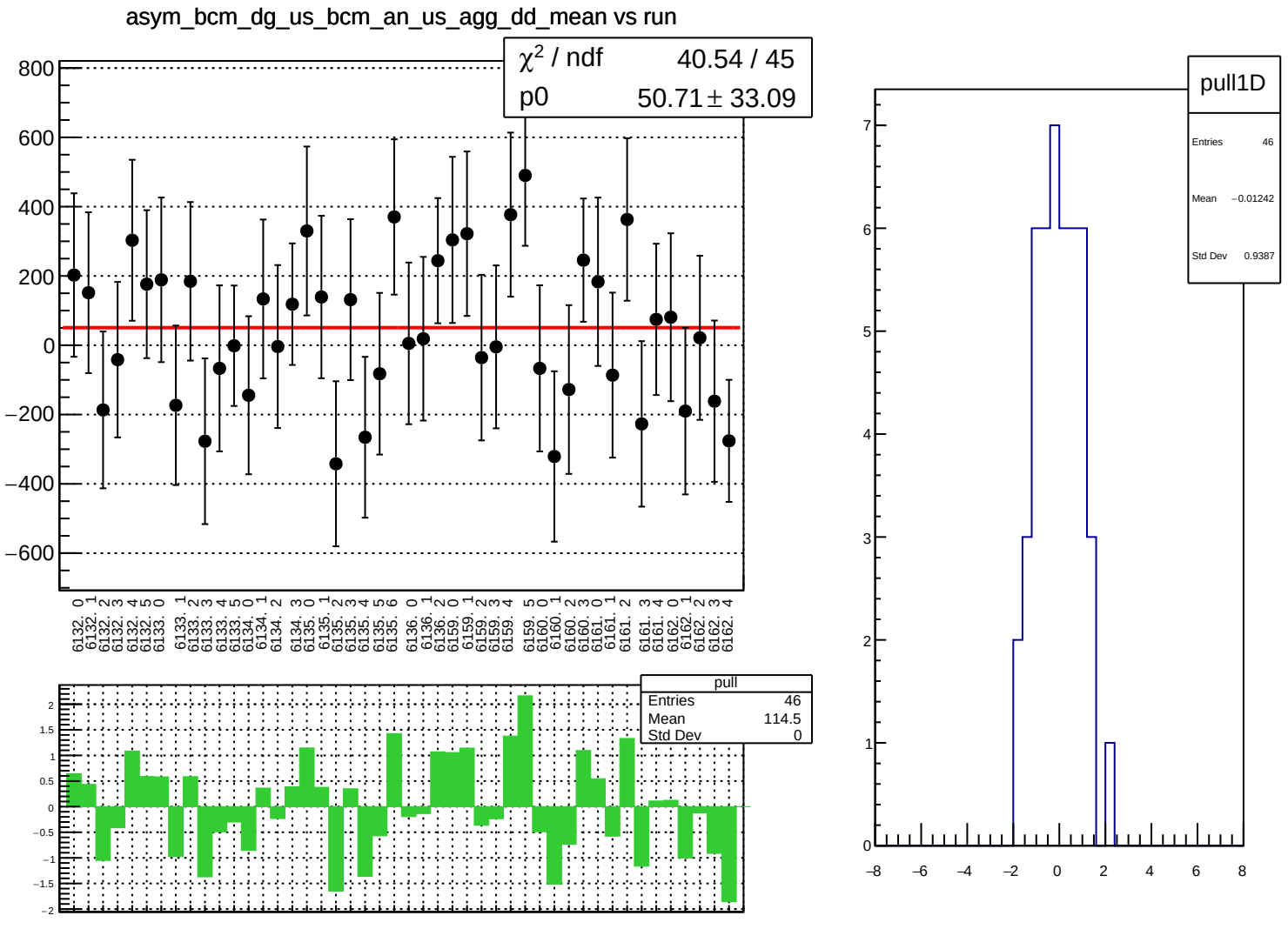

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.066e+04 / 45
p0 311.3 ± 0.3267
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

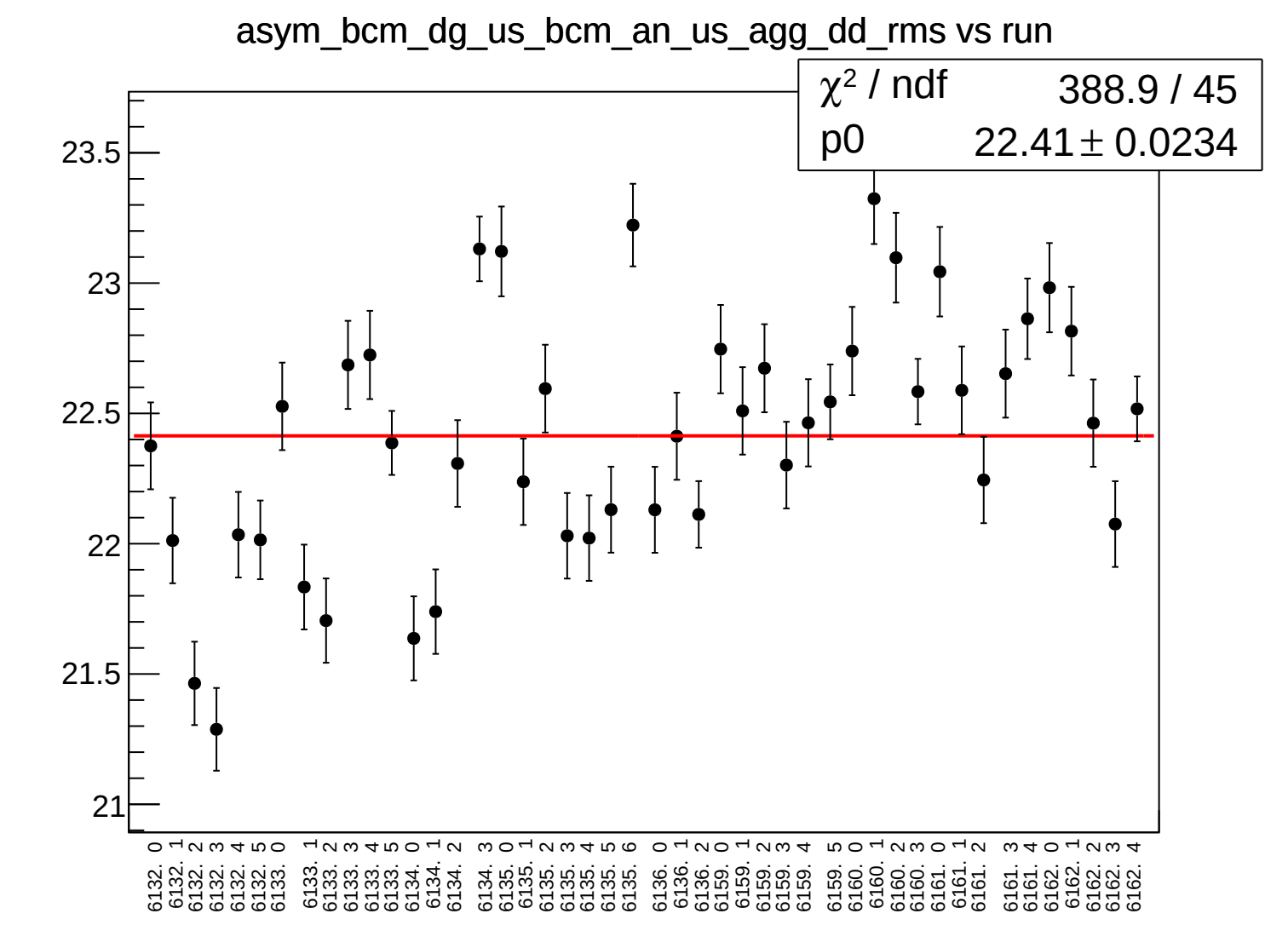

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 46.25 / 45
p0 −29.89 ± 27.16
pull
Entries 46
Mean 2340
Std Dev 0
pull1D
Entries 46
Mean 0.001539
Std Dev 1.003

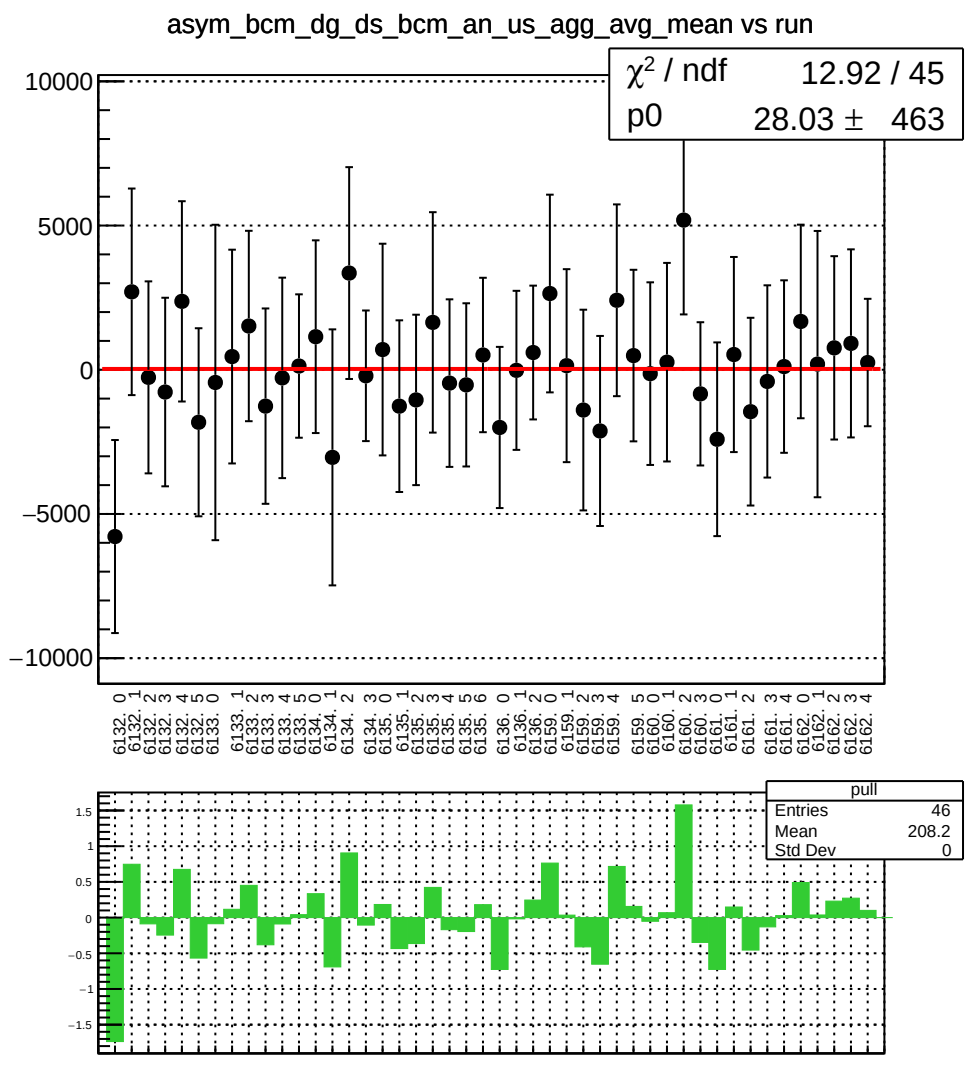

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2209 / 45
p0 18.38 ± 0.01921
20.5
20
19.5
19
18.5
18
17.5
17
16.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

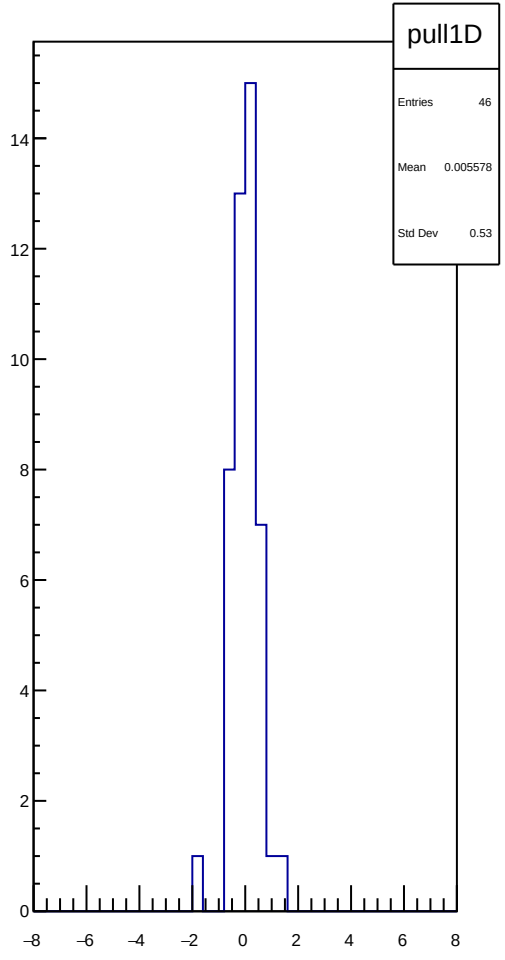

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 13.02 / 45
p0 49.42 ± 461.5
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 157.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.005663
Std Dev 0.532
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 1.093e+04 / 45
p0 310.8 ± 0.3263
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 40.54 / 45
p0 50.71 ± 33.09
pull
Entries 46
Mean 114.5
Std Dev 0
pull1D
Entries 46
Mean −0.01242
Std Dev 0.9387


asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 388.9 / 45
p0 22.41 ± 0.0234
23.5
23
22.5
22
21.5
21
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 12.92 / 45
p0 28.03 ± 463
10000
5000
0
−5000
−10000
pull
Entries 46
Mean 208.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 46
Mean 0.005578
Std Dev 0.53
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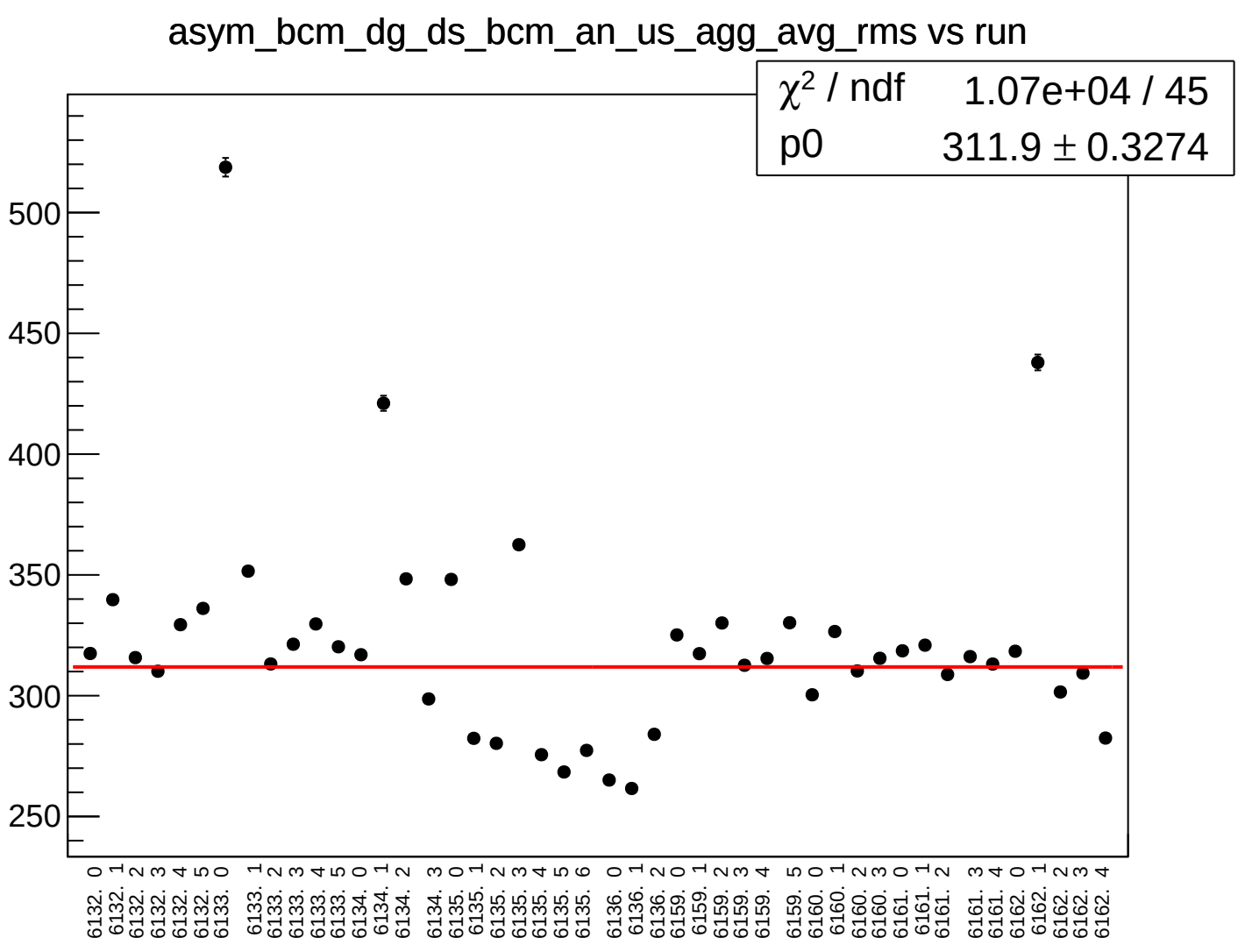
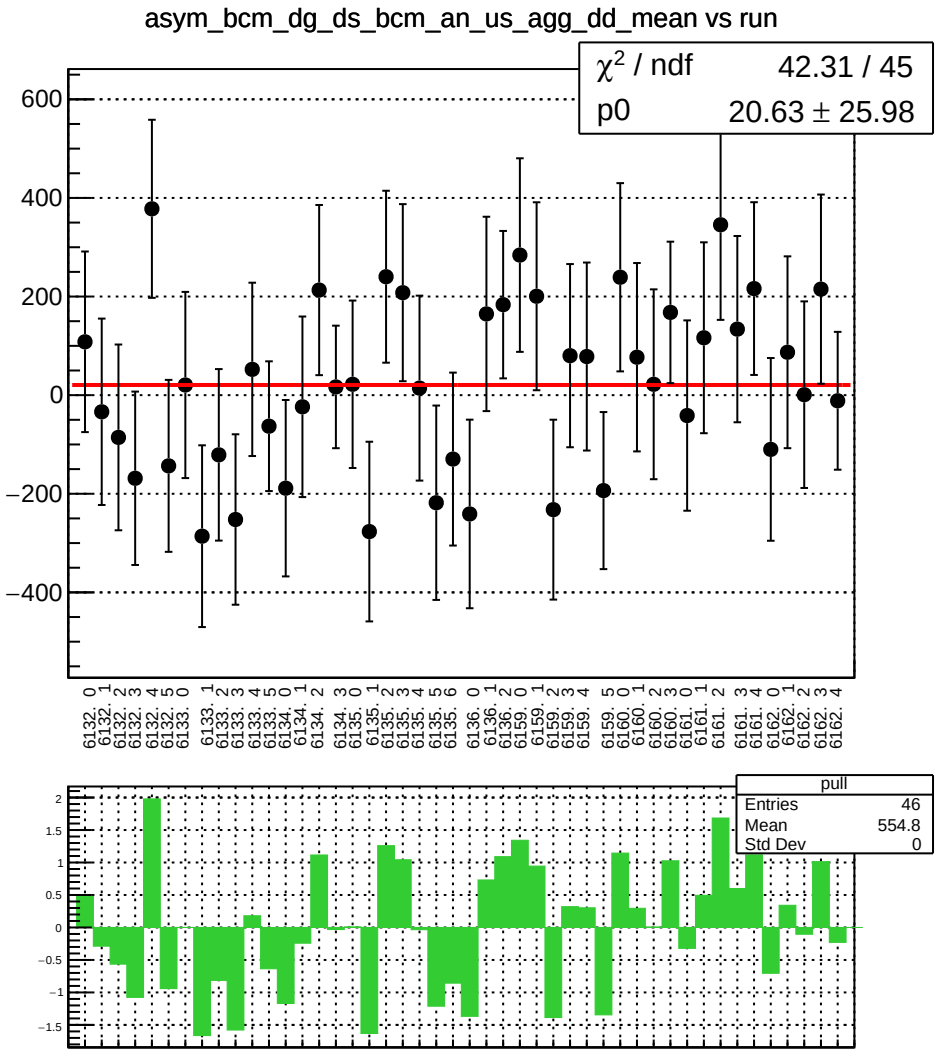
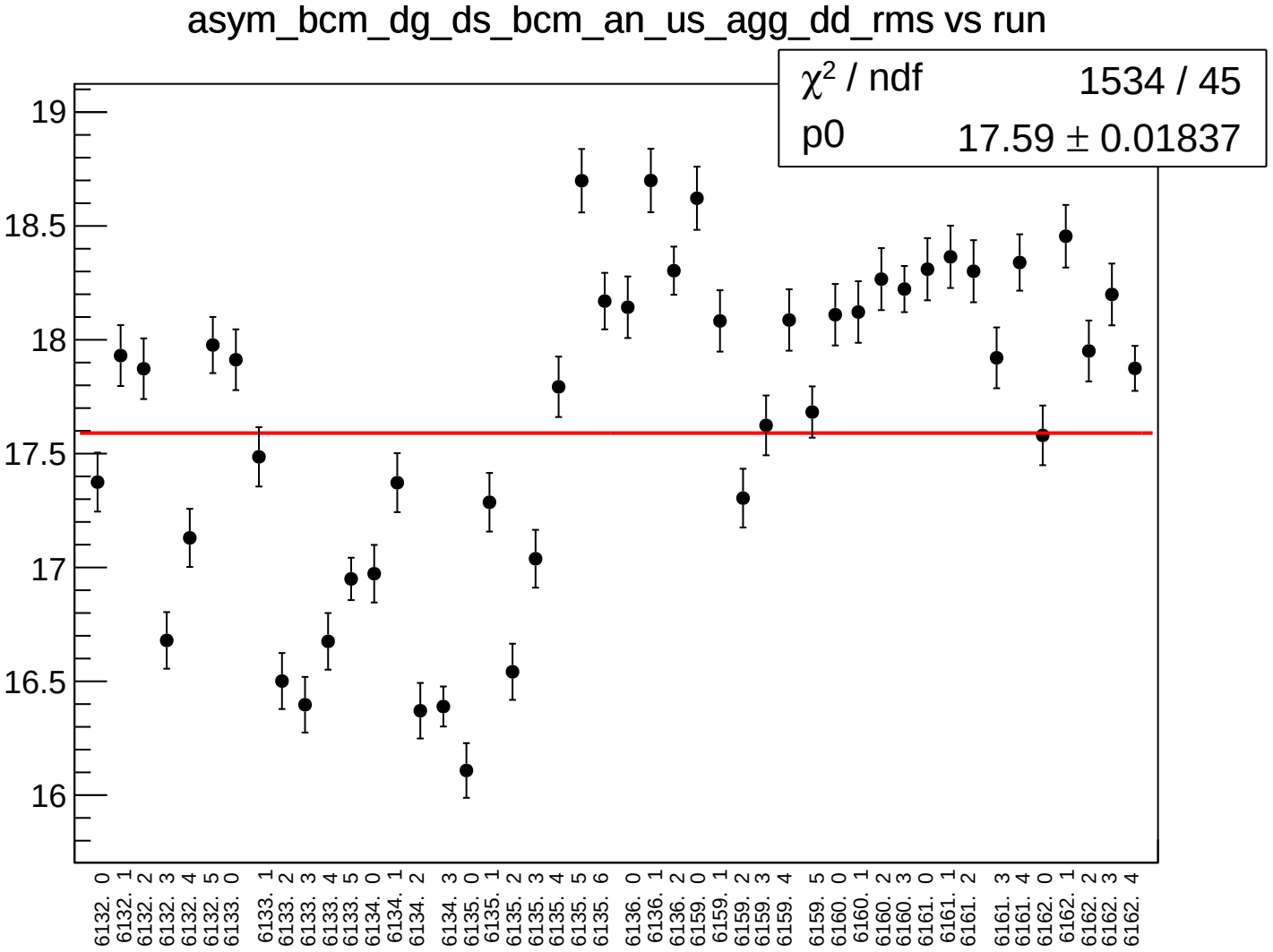
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.07e+04 / 45
p0 311.9 ± 0.3274
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 42.31 / 45
p0 20.63 ± 25.98
pull
Entries 46
Mean 554.8
Std Dev 0
pull1D
Entries 46
Mean 0.006942
Std Dev 0.9591


asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1534 / 45
p0 17.59 ± 0.01837
19
18.5
18
17.5
17
16.5
16
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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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
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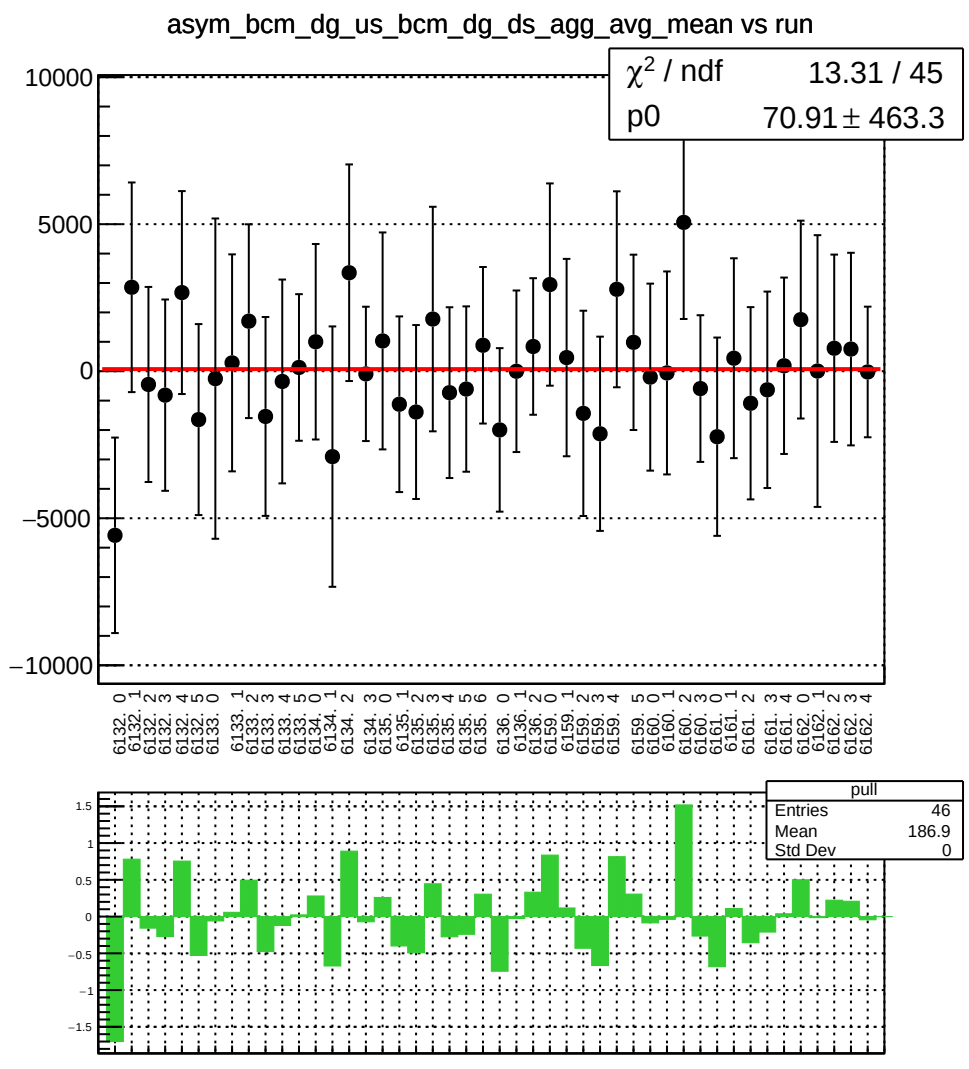
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 13.31 / 45
p0 70.91 ± 463.3
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
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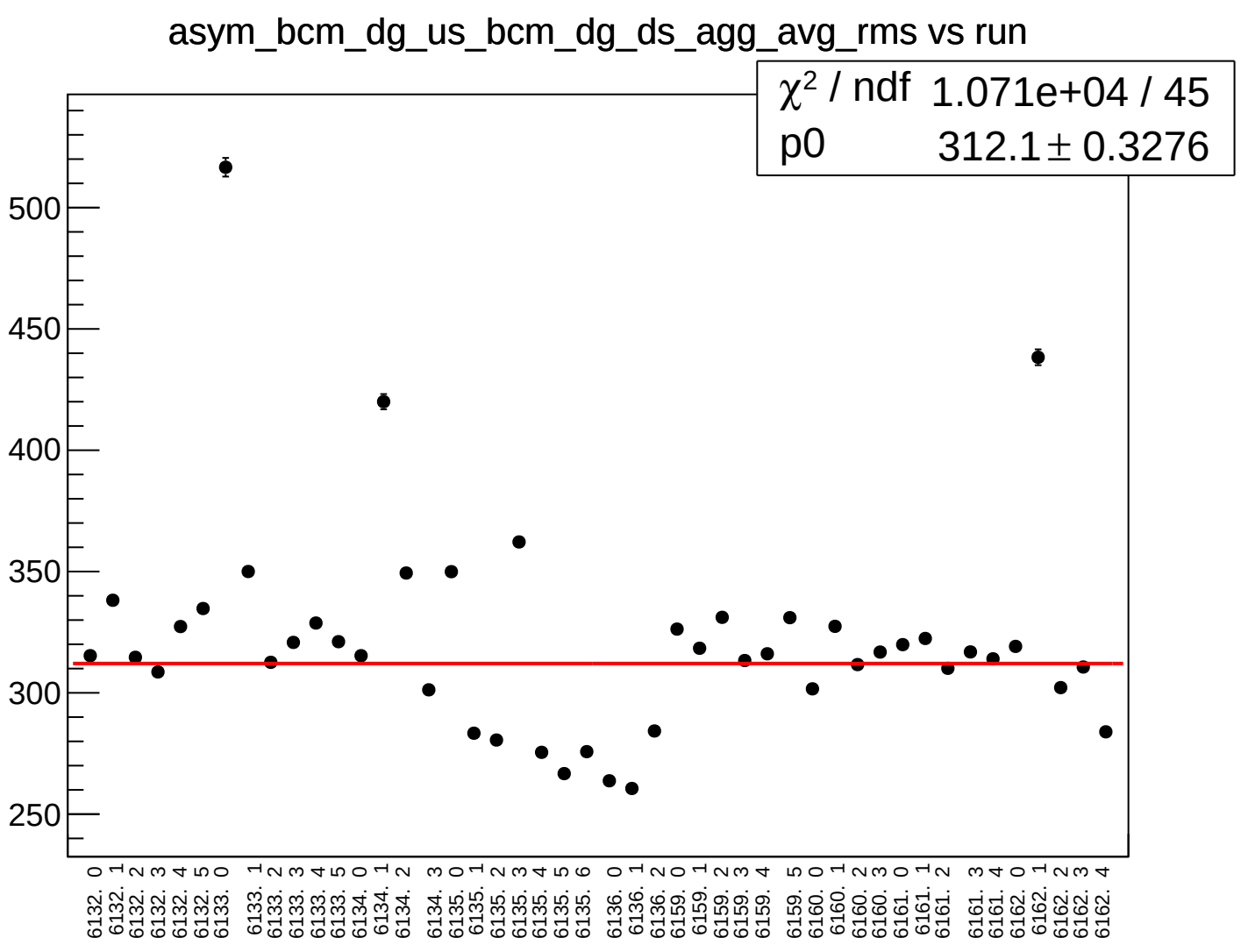
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 186.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.005878
Std Dev 0.5378
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 1.071e+04 / 45
p0 312.1 ± 0.3276
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
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6134. 2
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6135. 1
6135. 2
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6135. 5
6135. 6
6136. 0
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6136. 2
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6159. 1
6159. 2
6159. 3
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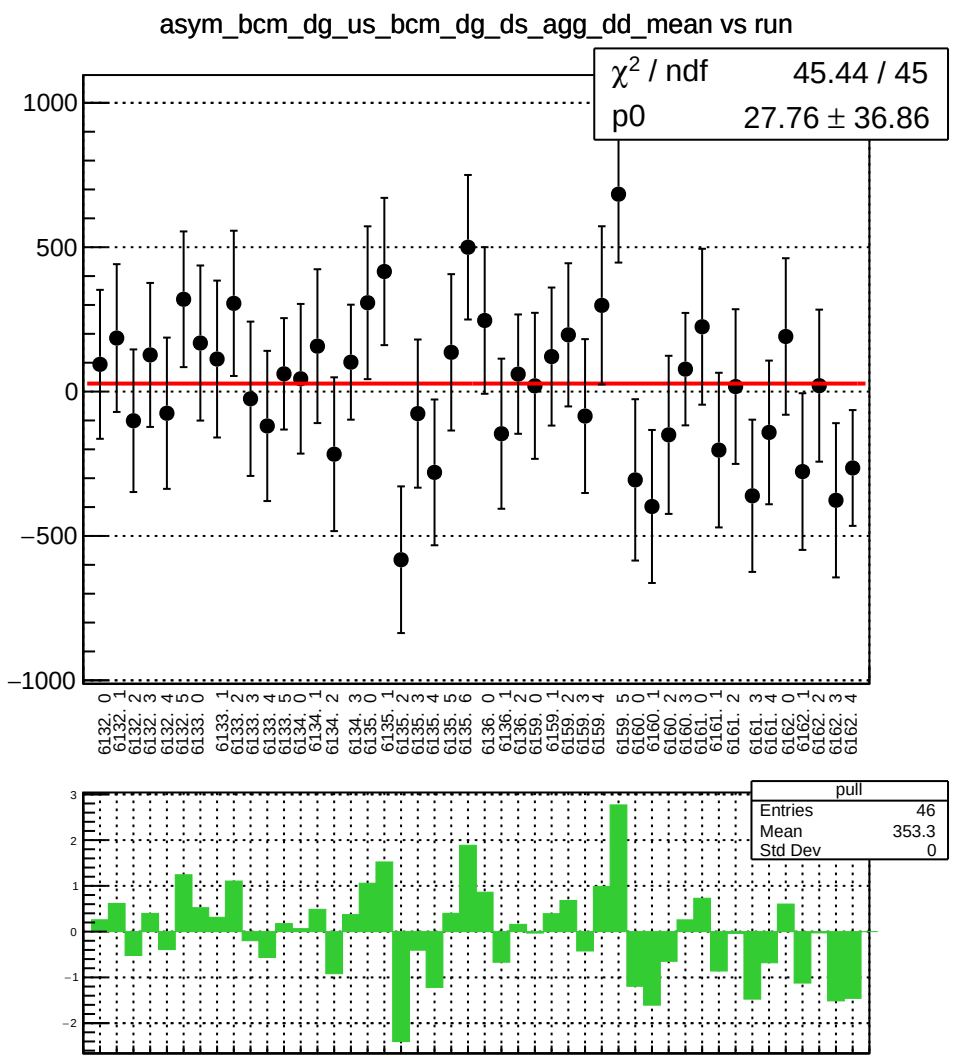
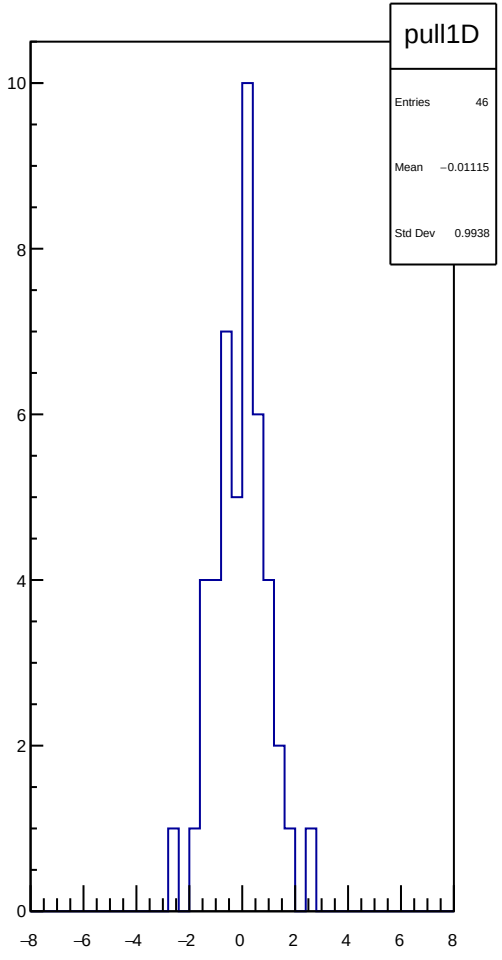
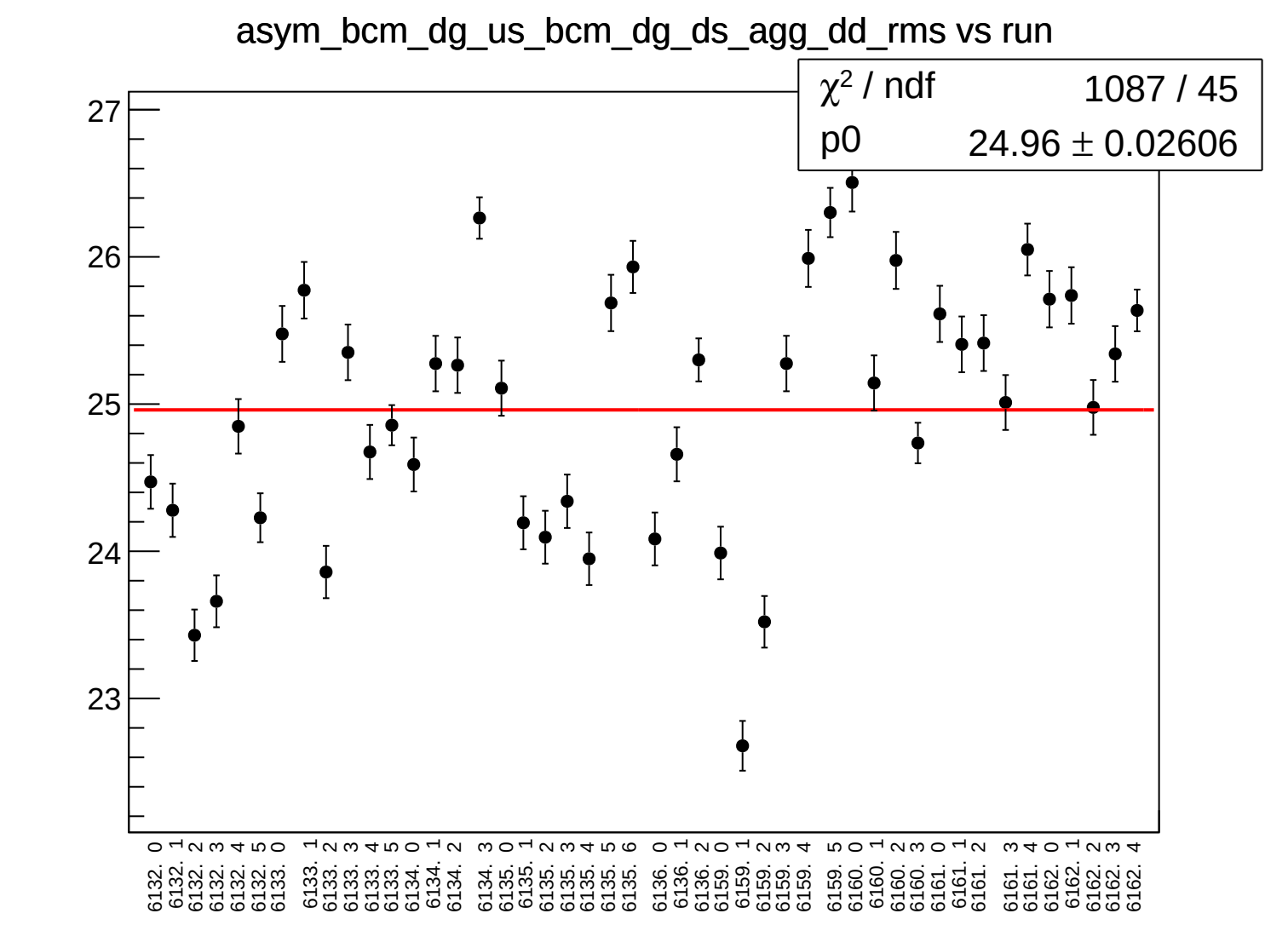
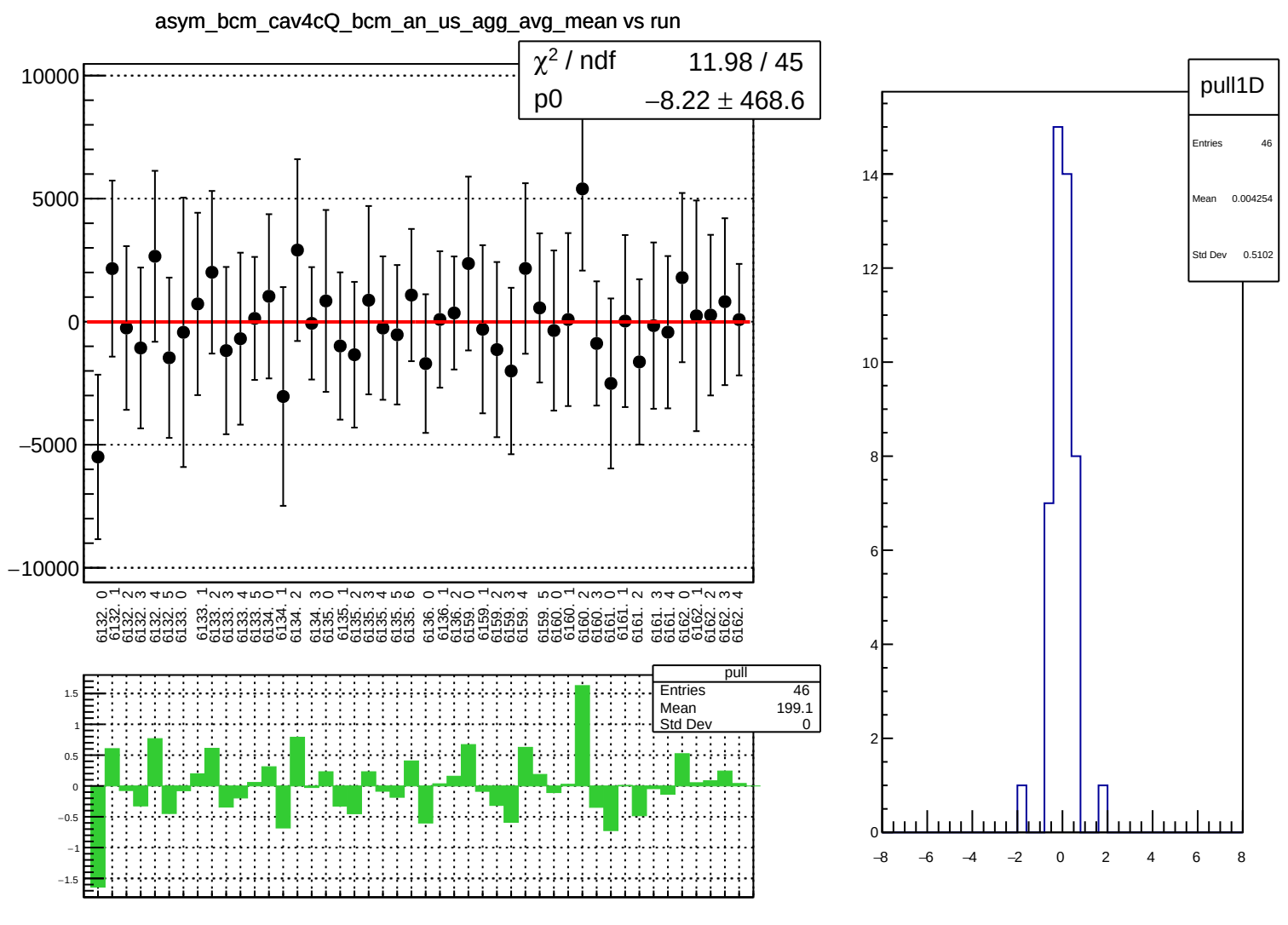
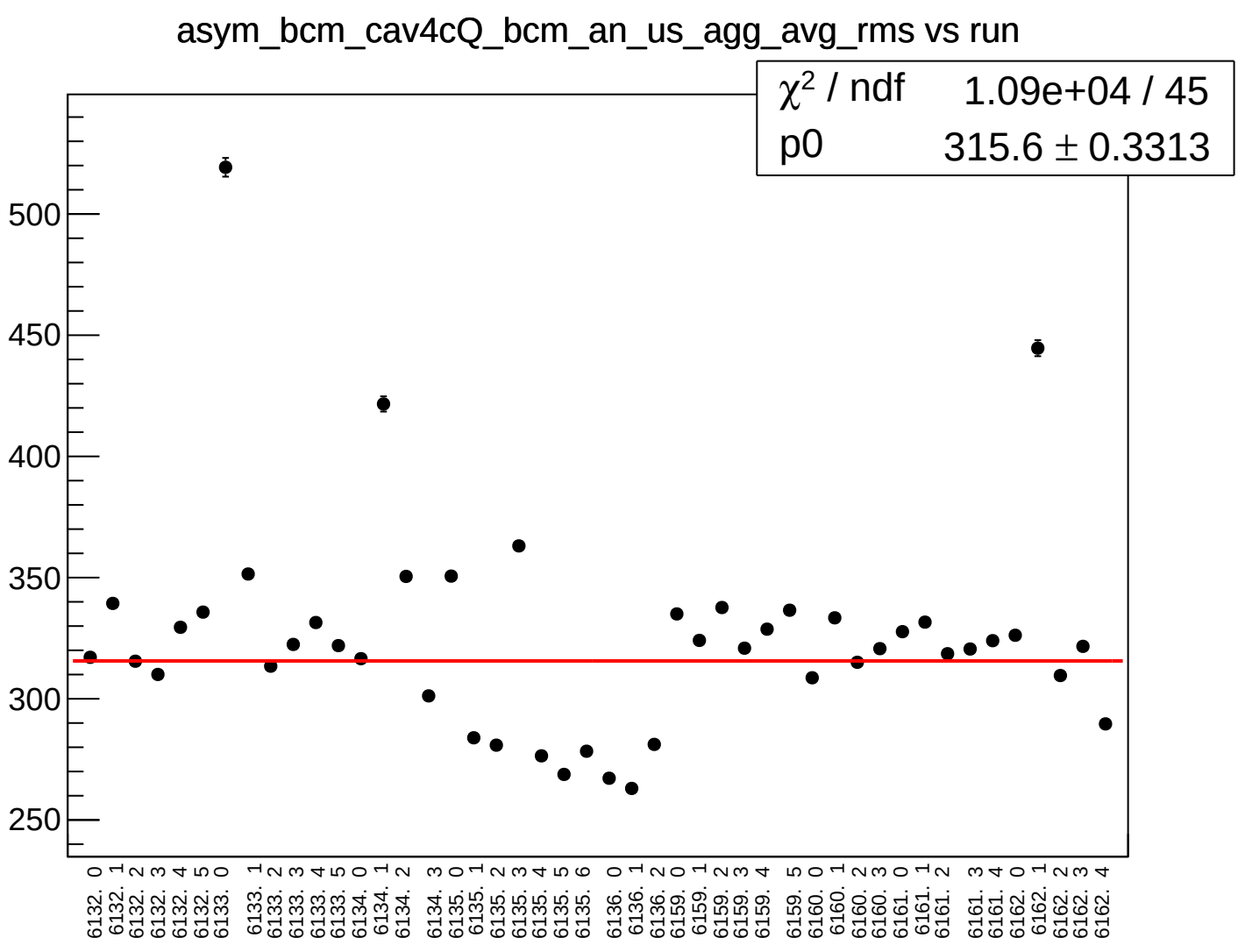
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

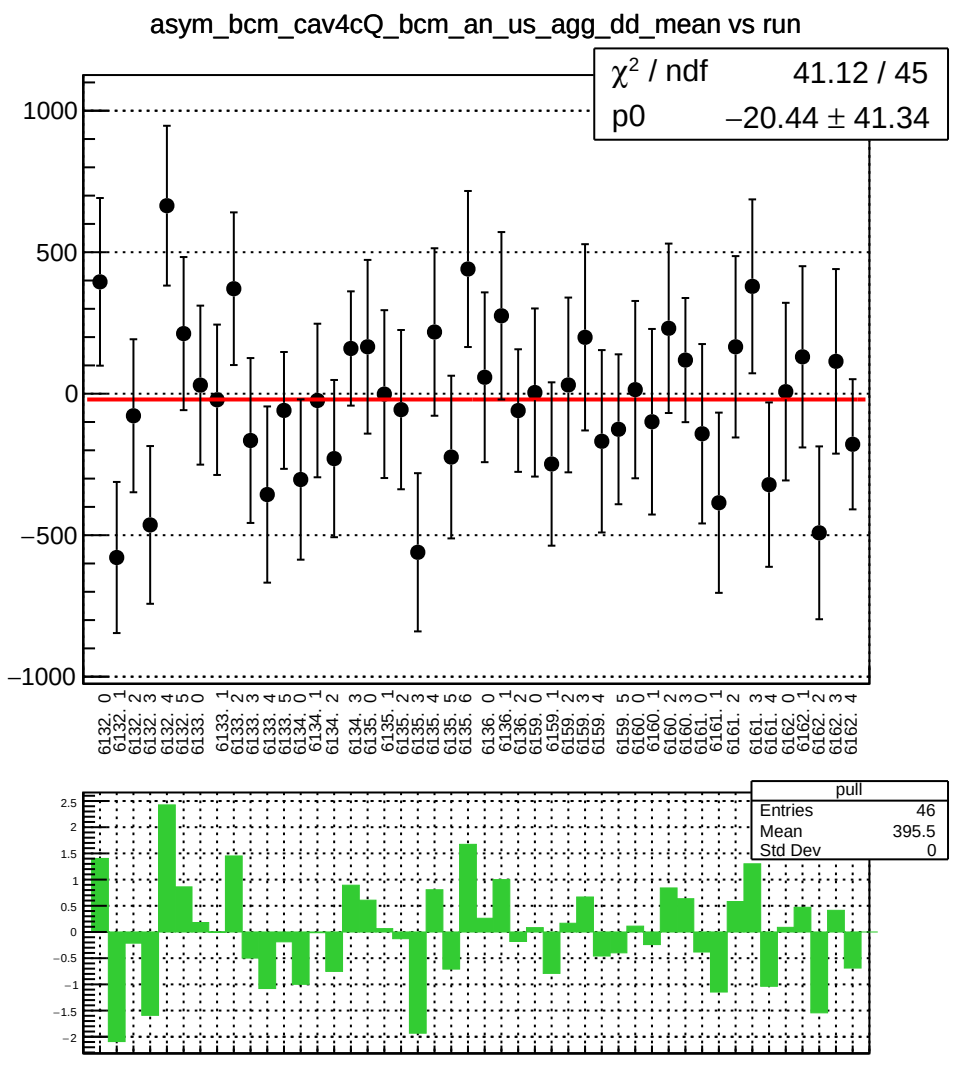

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 45.44 / 45
p0 27.76 ± 36.86
1000
500
0
−500
−1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 353.3
Std Dev 0
3
2
1
0
−1
−2

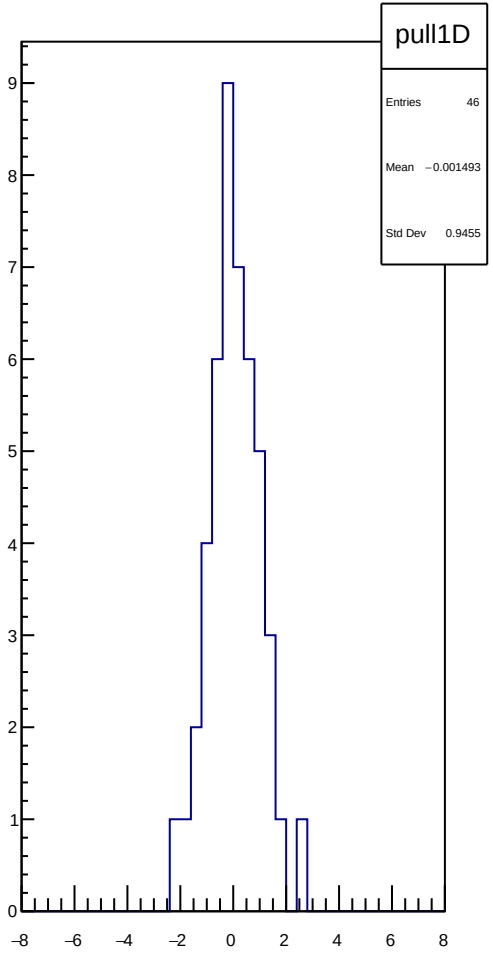

pull1D
Entries 46
Mean −0.01115
Std Dev 0.9938
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

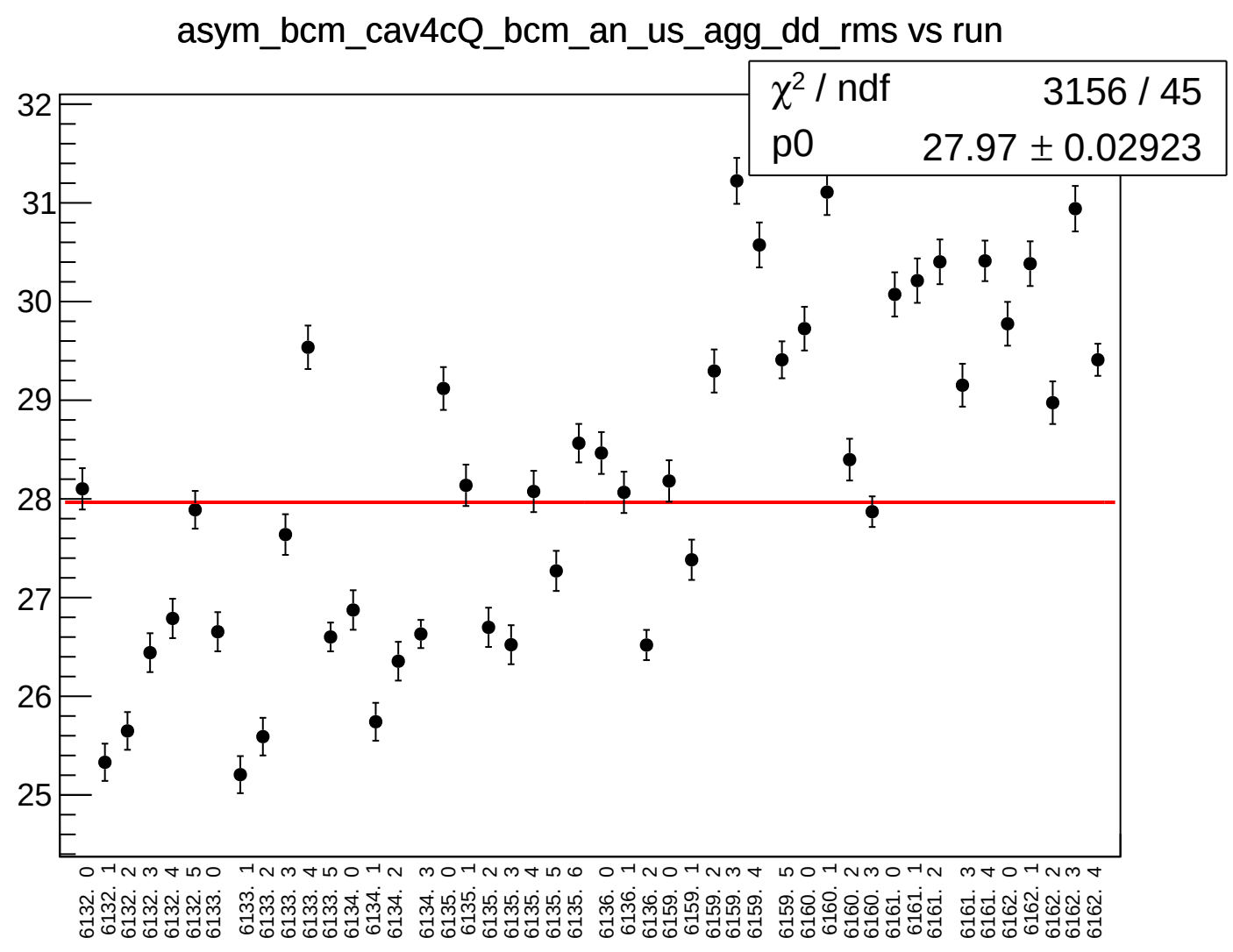

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1087 / 45
p0 24.96 ± 0.02606
27
26
25
24
23
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

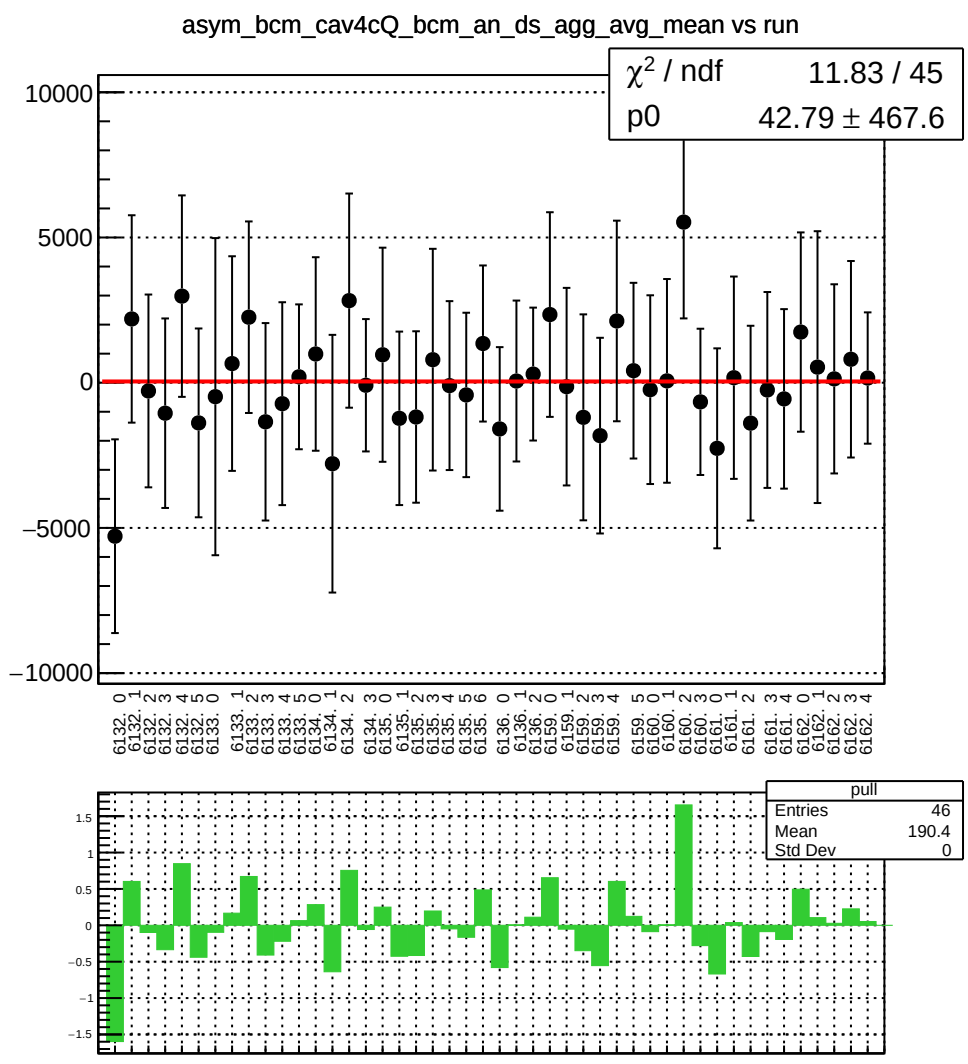

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 11.98 / 45
p0 −8.22 ± 468.6
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 199.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.004254
Std Dev 0.5102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

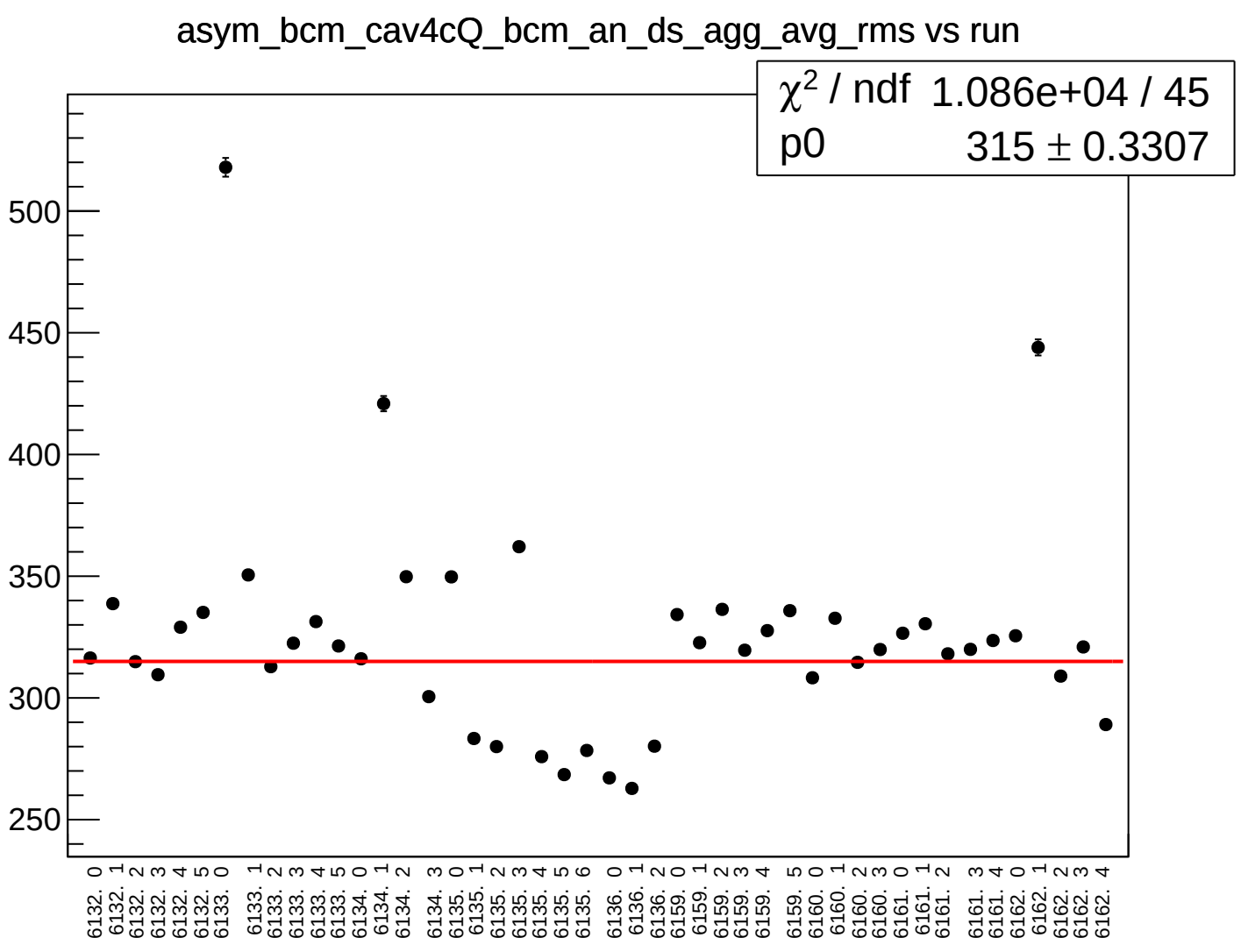

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.09e+04 / 45
p0 315.6 ± 0.3313
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

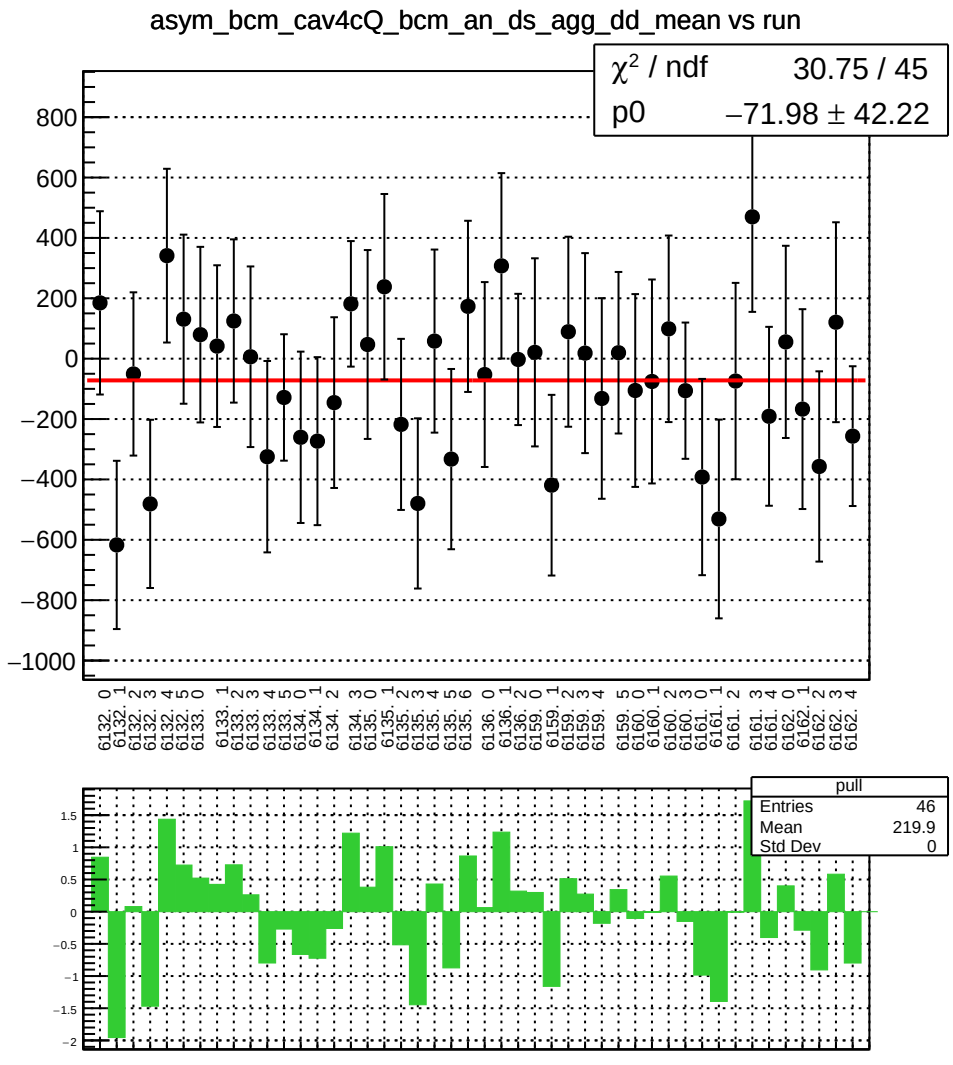

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 41.12 / 45
p0 −20.44 ± 41.34
1000
500
0
−500
−1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6136. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 395.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

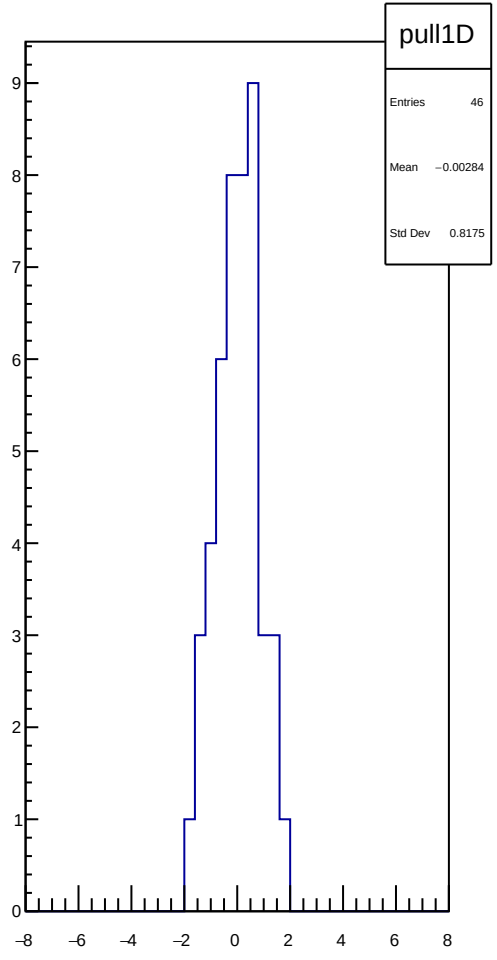

pull1D
Entries 46
Mean −0.001493
Std Dev 0.9455
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

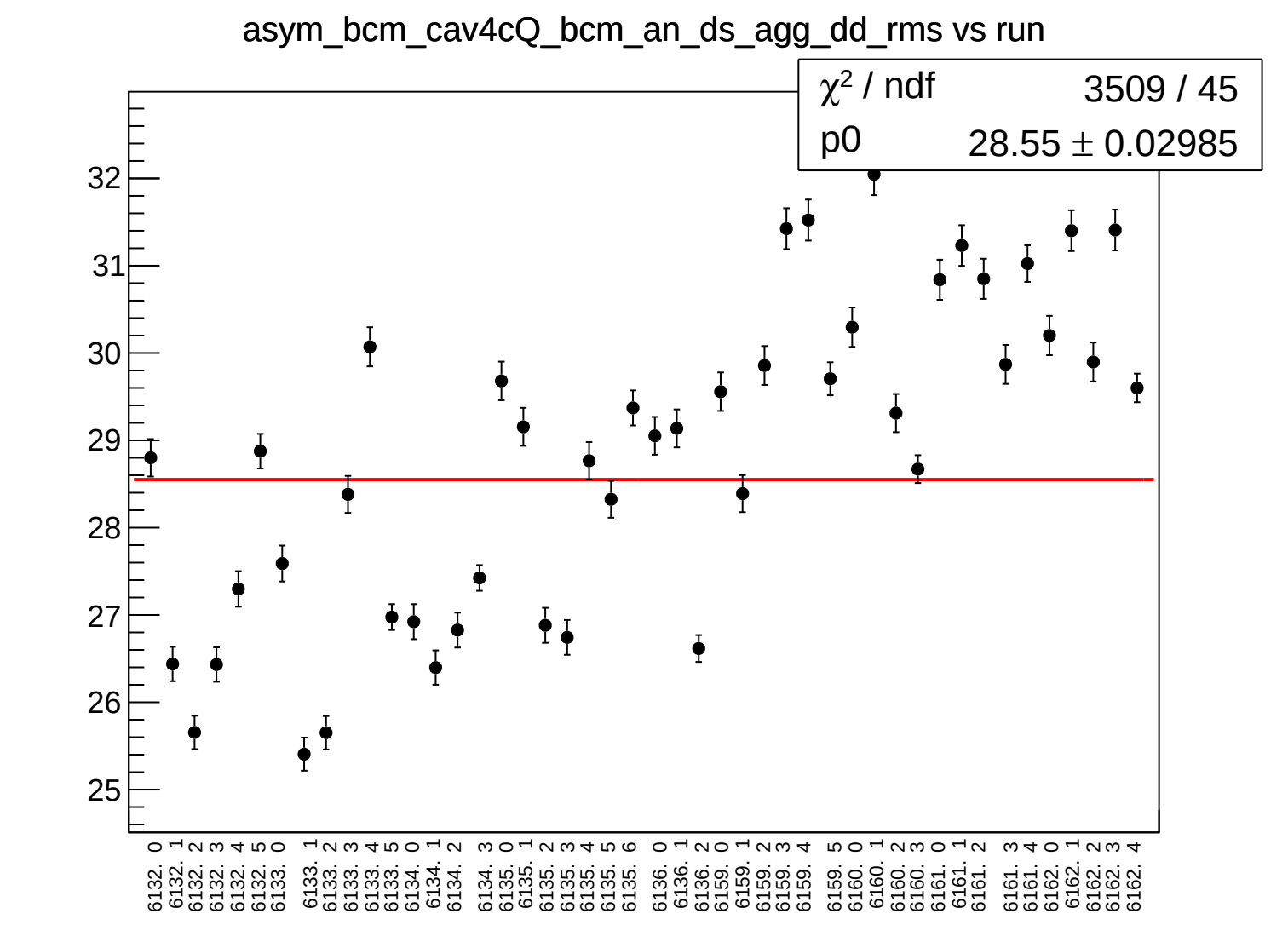

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3156 / 45
p0 27.97 ± 0.02923
32
31
30
29
28
27
26
25
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 11.83 / 45
p0 42.79 ± 467.6
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 190.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.004439
Std Dev 0.5072
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 1.086e+04 / 45
p0 315 ± 0.3307
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 30.75 / 45
p0 −71.98 ± 42.22
pull
Entries 46
Mean 219.9
Std Dev 0


pull1D
Entries 46
Mean −0.00284
Std Dev 0.8175


asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3509 / 45
p0 28.55 ± 0.02985
32
31
30
29
28
27
26
25
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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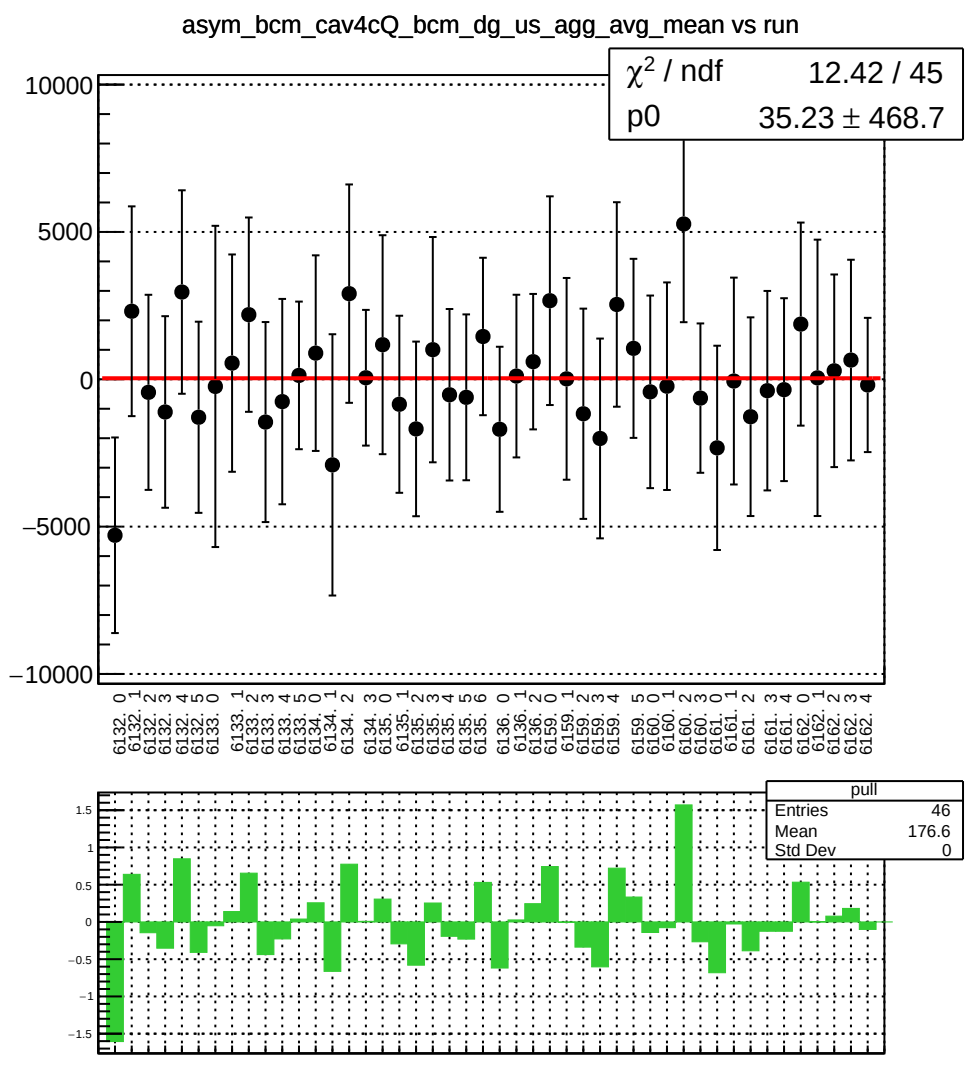
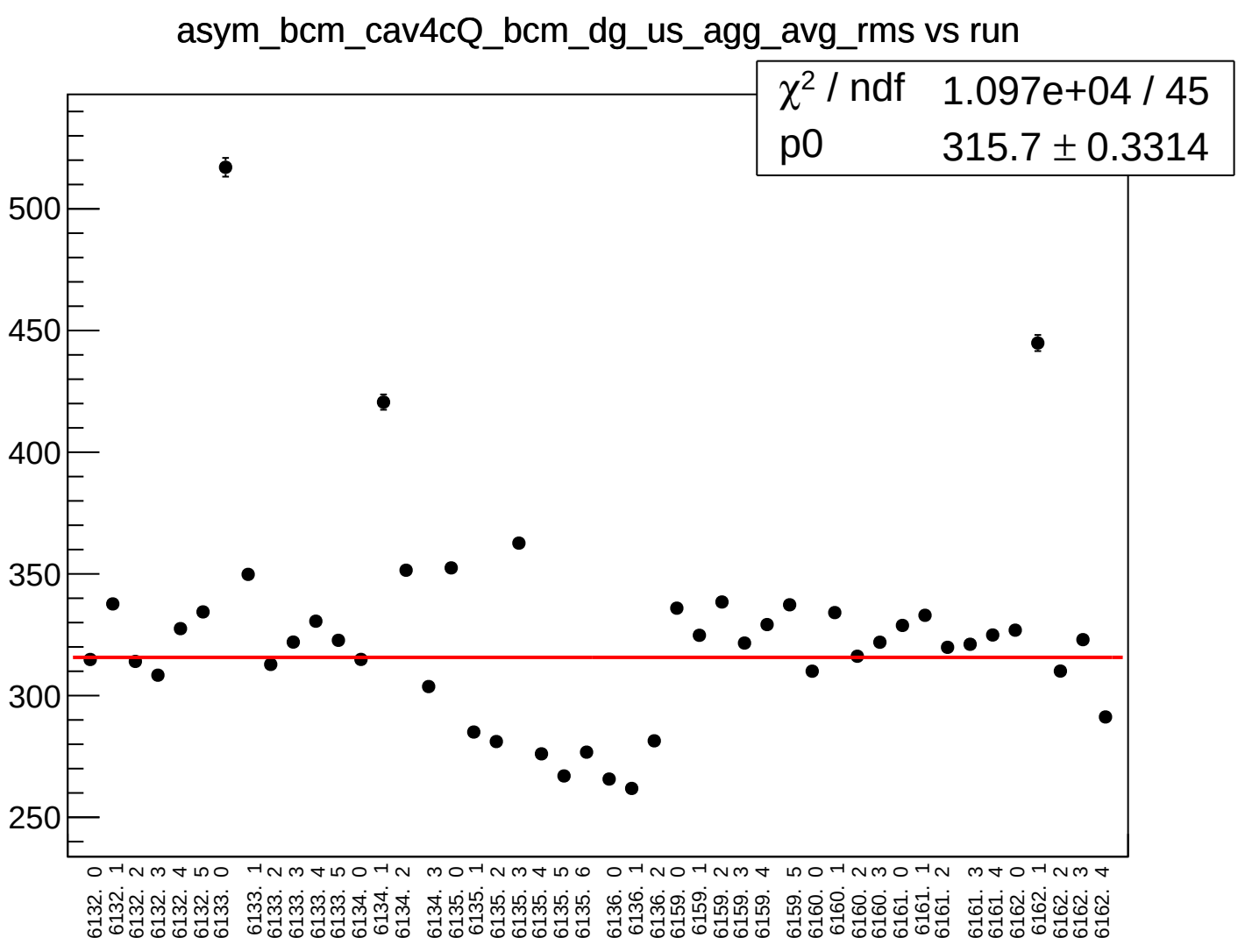
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 12.42 / 45
p0 35.23 ± 468.7
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 176.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.004438
Std Dev 0.5196
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 1.097e+04 / 45
p0 315.7 ± 0.3314
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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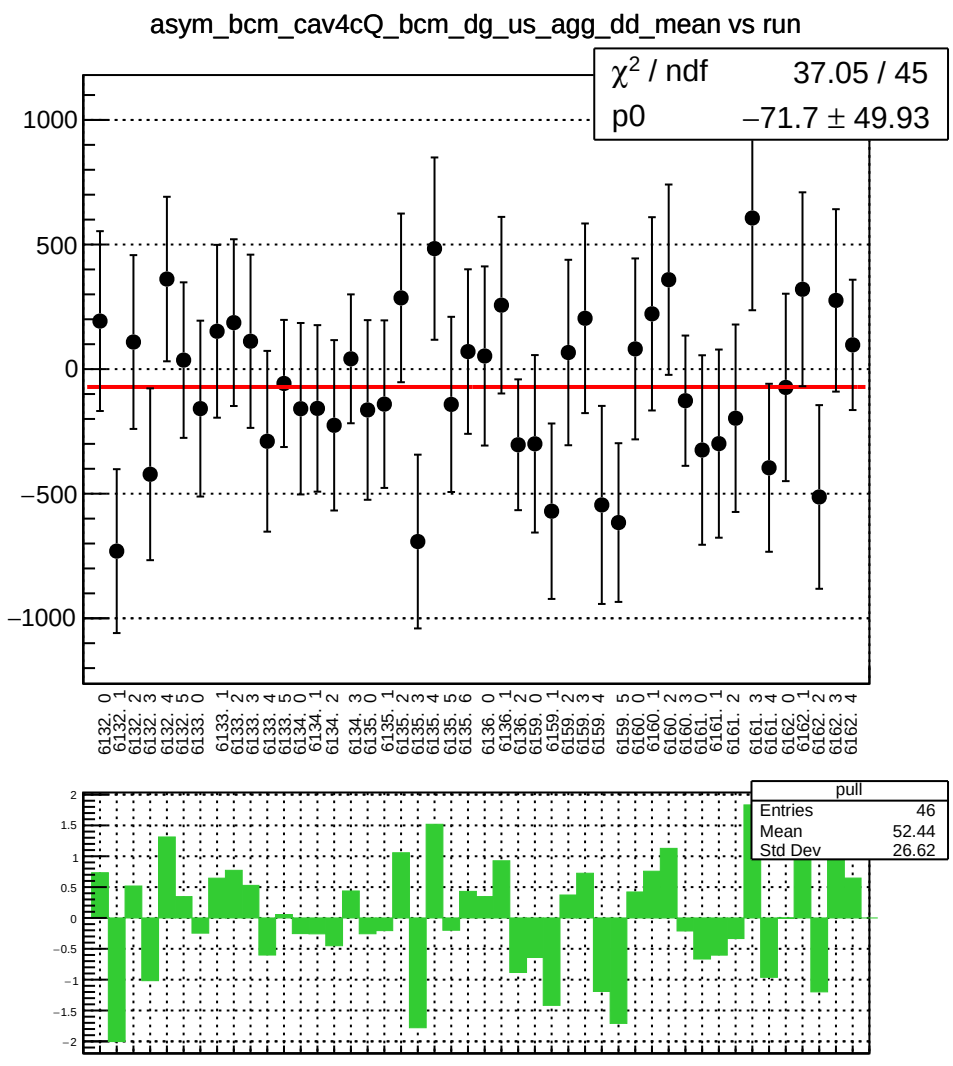
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 37.05 / 45
p0 −71.7 ± 49.93
1000
500
0
−500
−1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6136. 0
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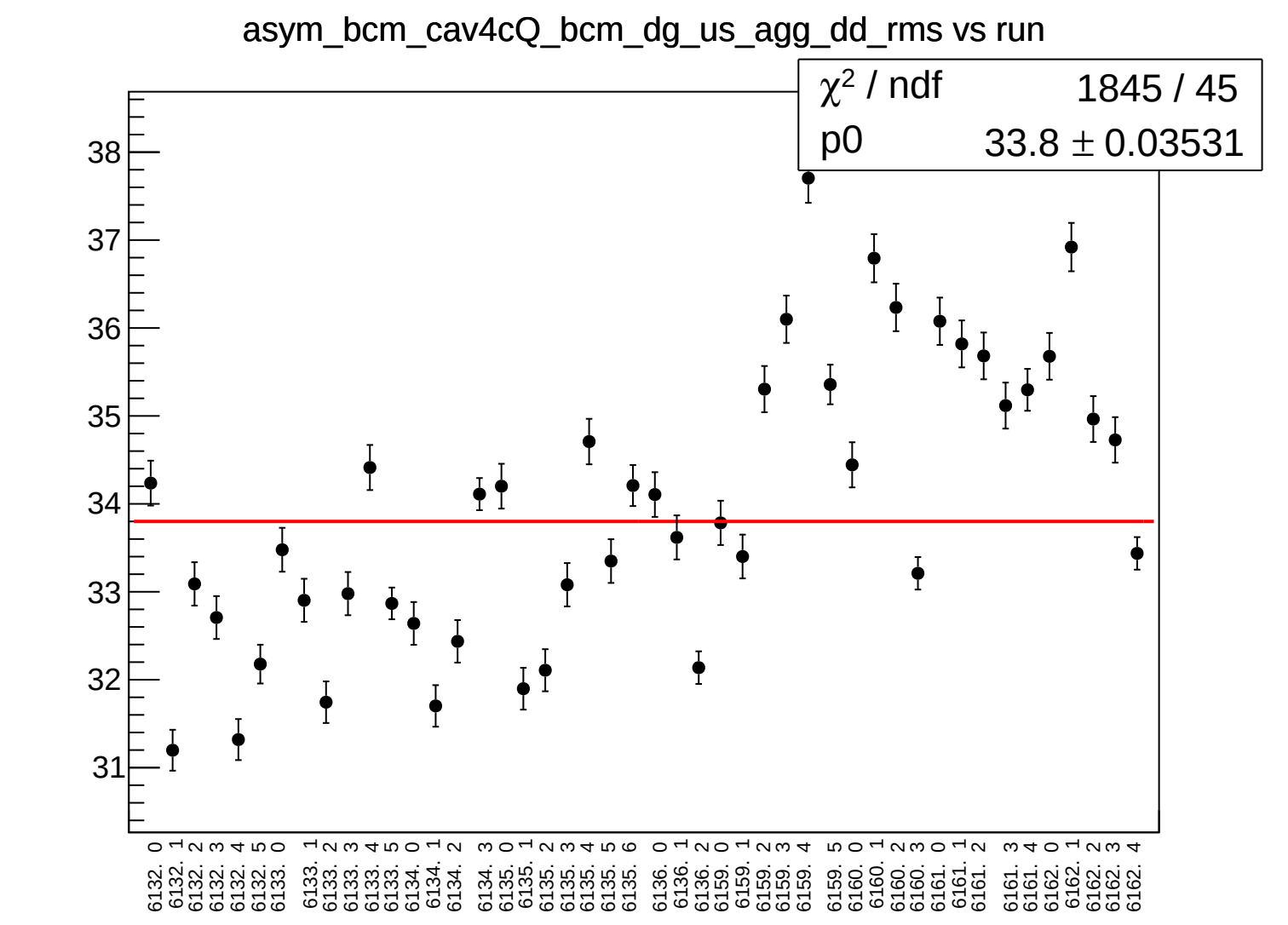
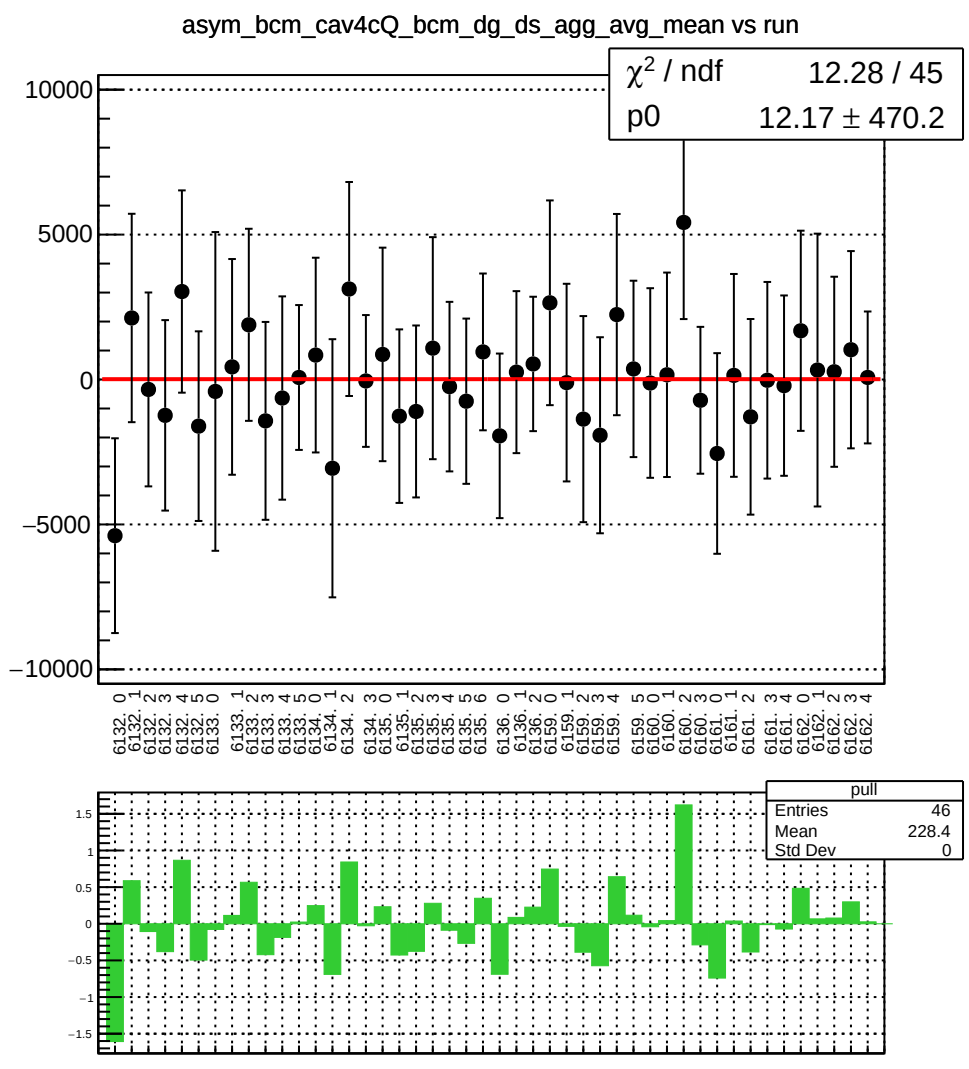
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 52.44
Std Dev 26.62
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.008181
Std Dev 0.8974
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1845 / 45
p0 33.8 ± 0.03531
38
37
36
35
34
33
32
31
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 12.28 / 45
p0 12.17 ± 470.2
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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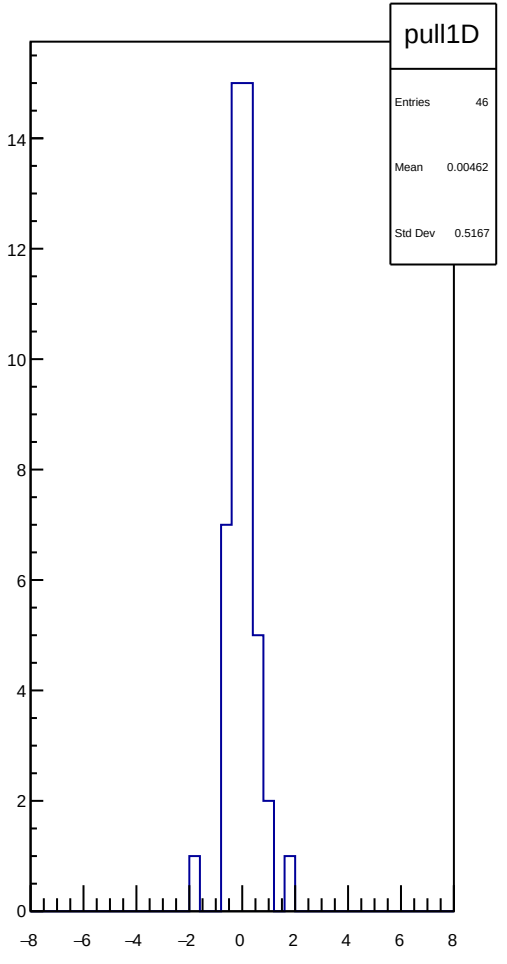
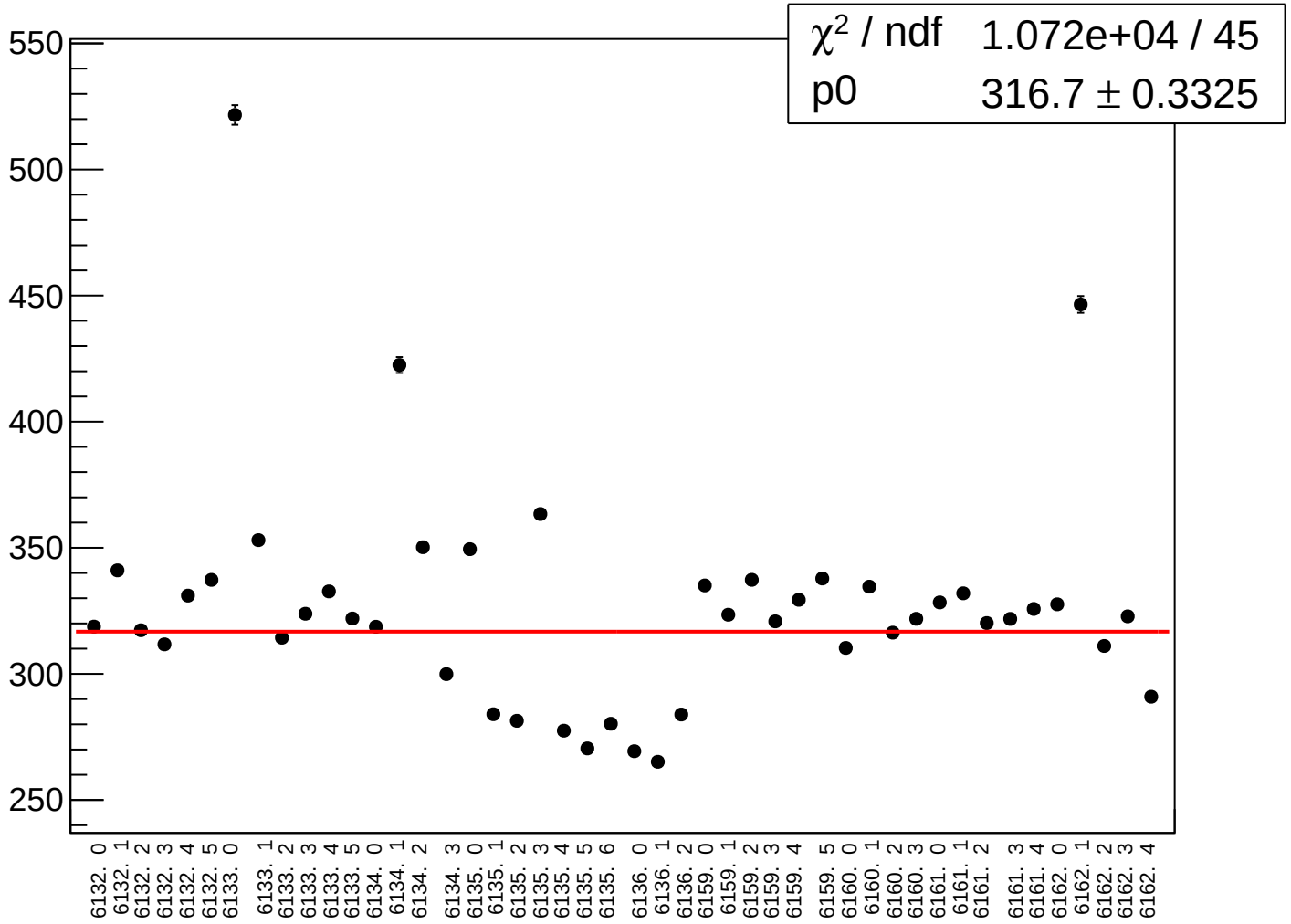
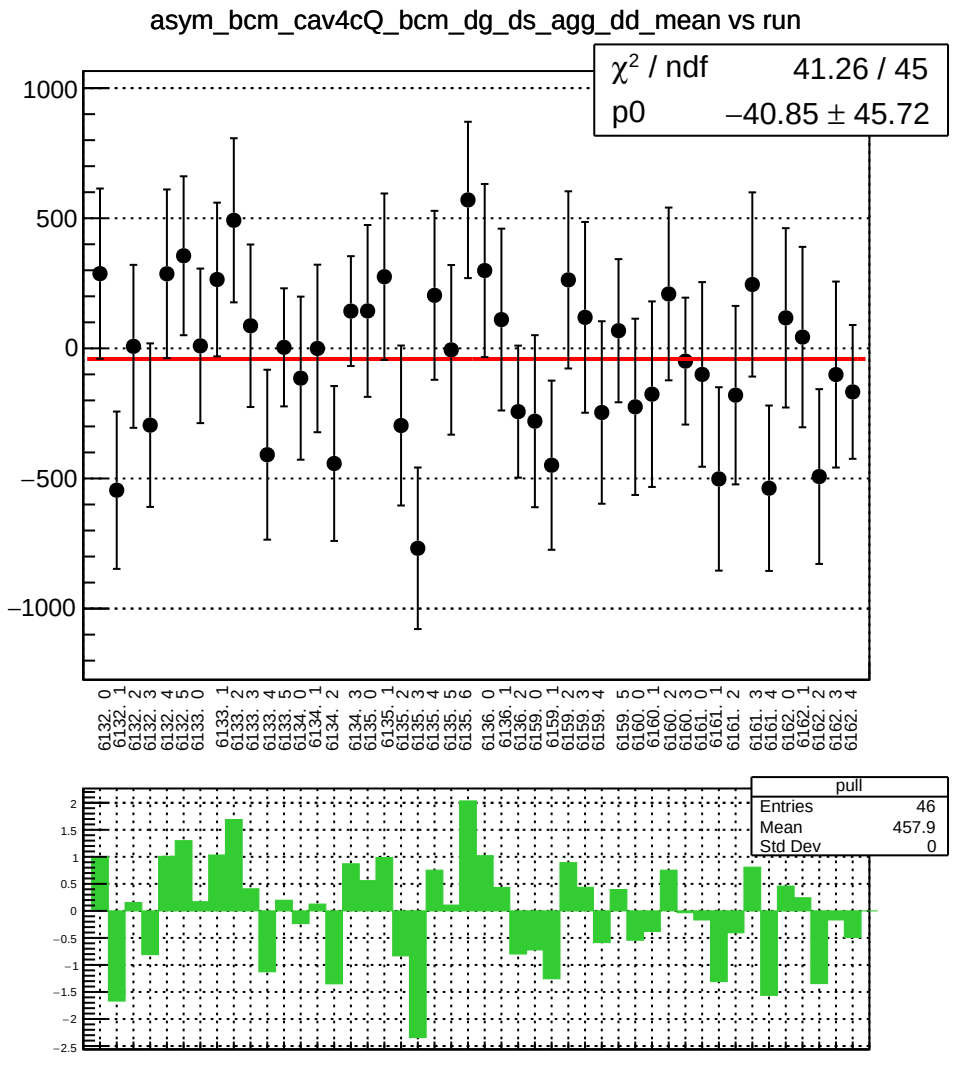
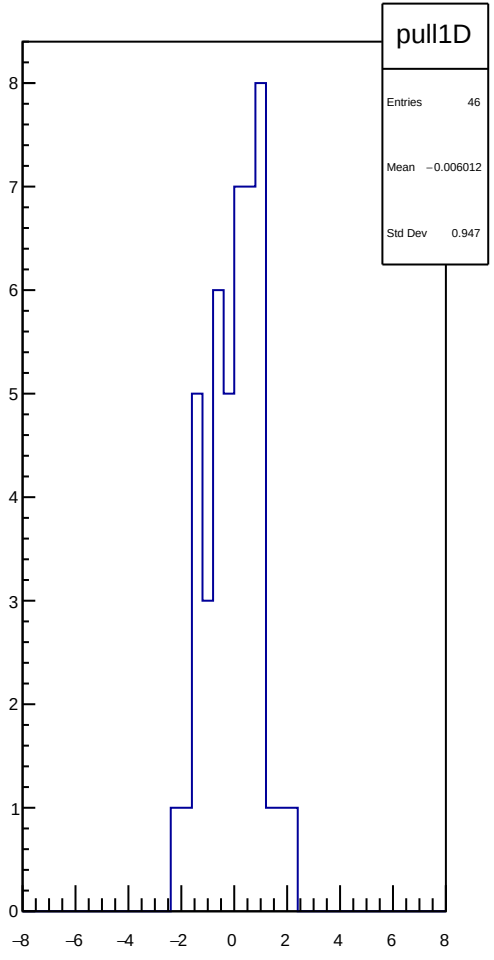
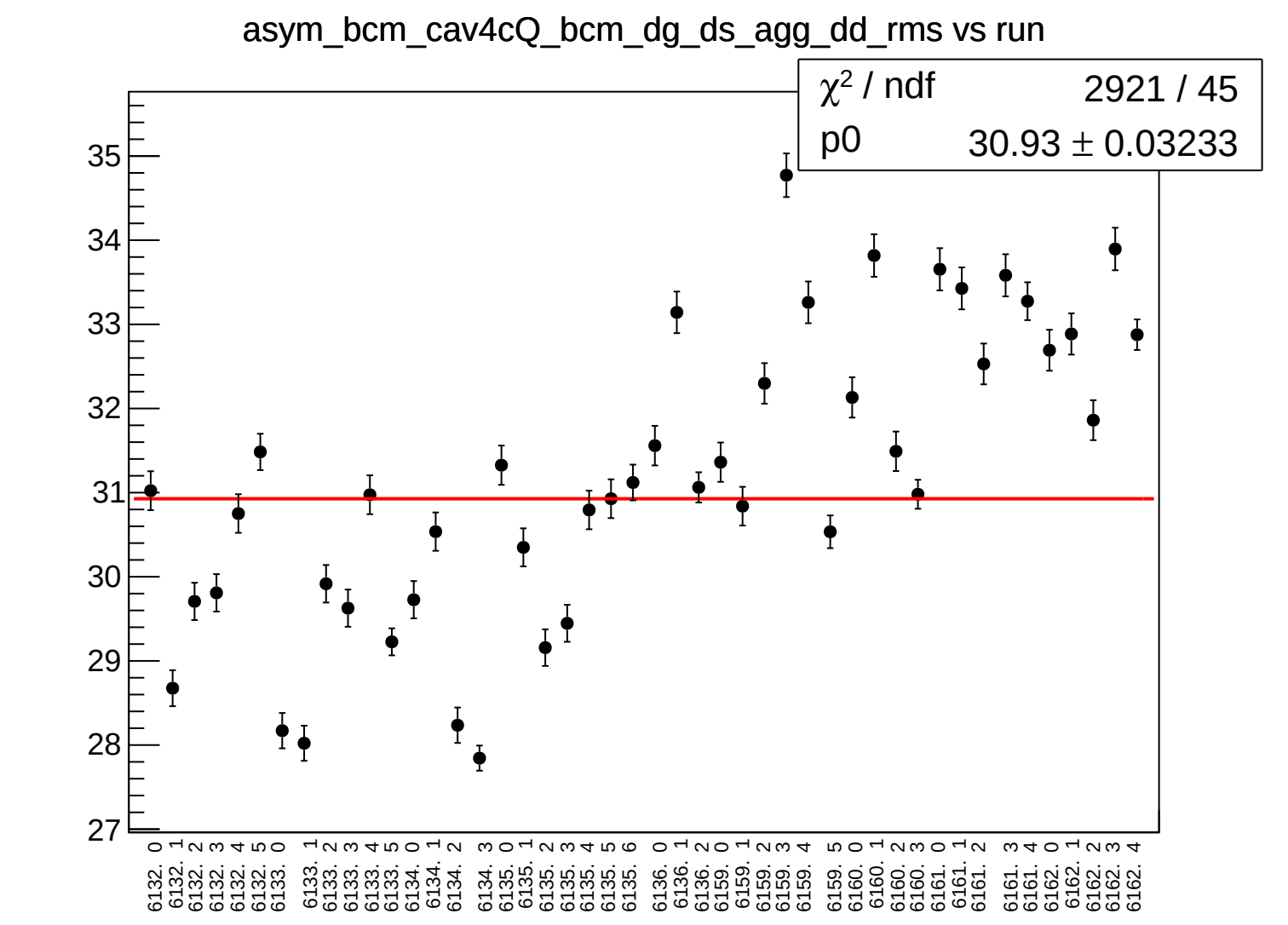
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 228.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

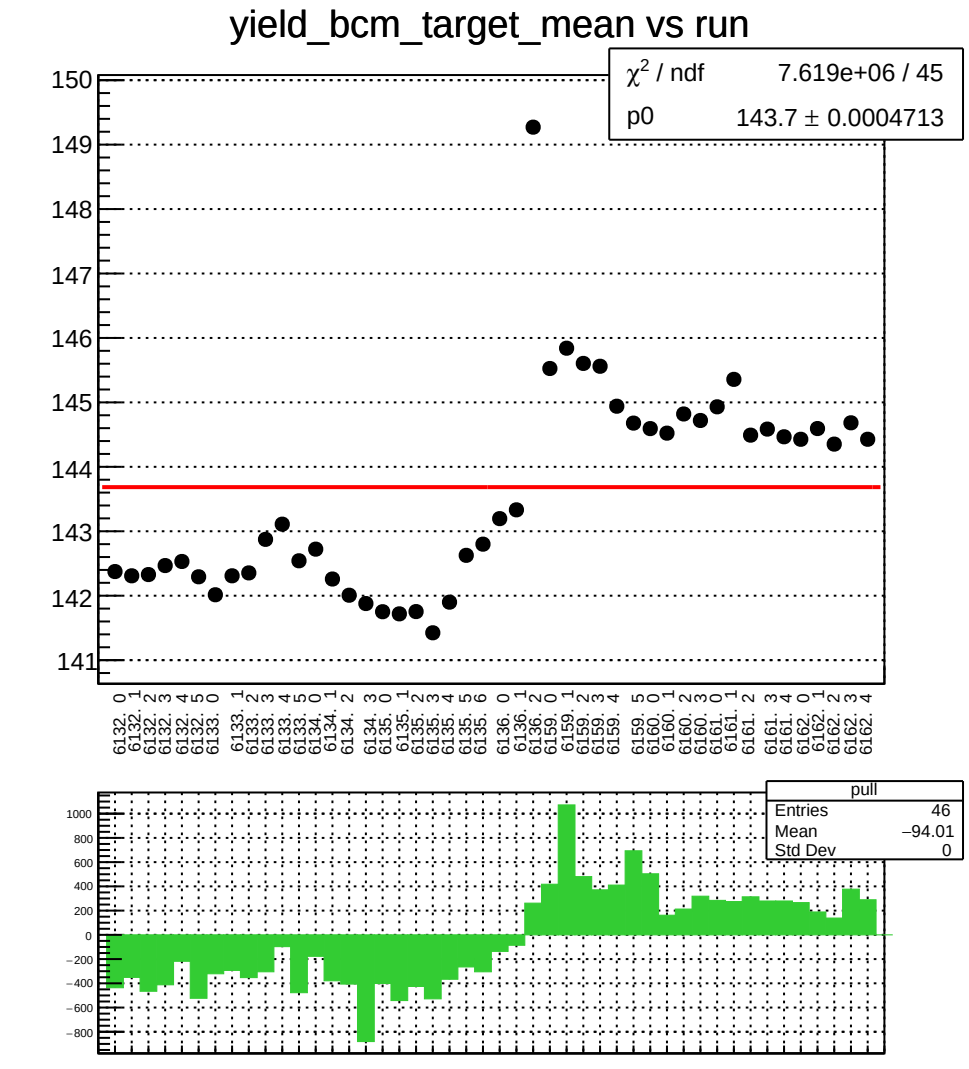

pull1D
Entries 46
Mean 0.00462
Std Dev 0.5167
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

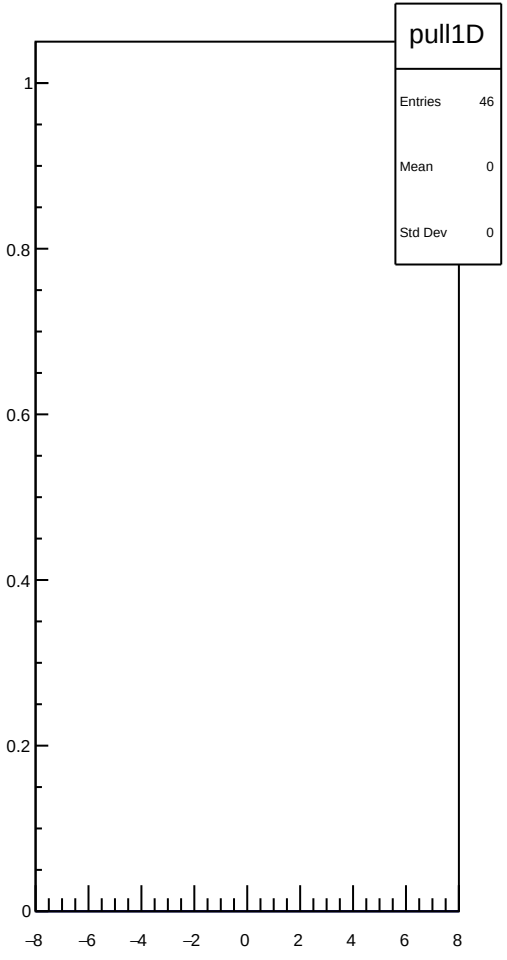

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.072e+04 / 45
p0 316.7 ± 0.3325
550
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

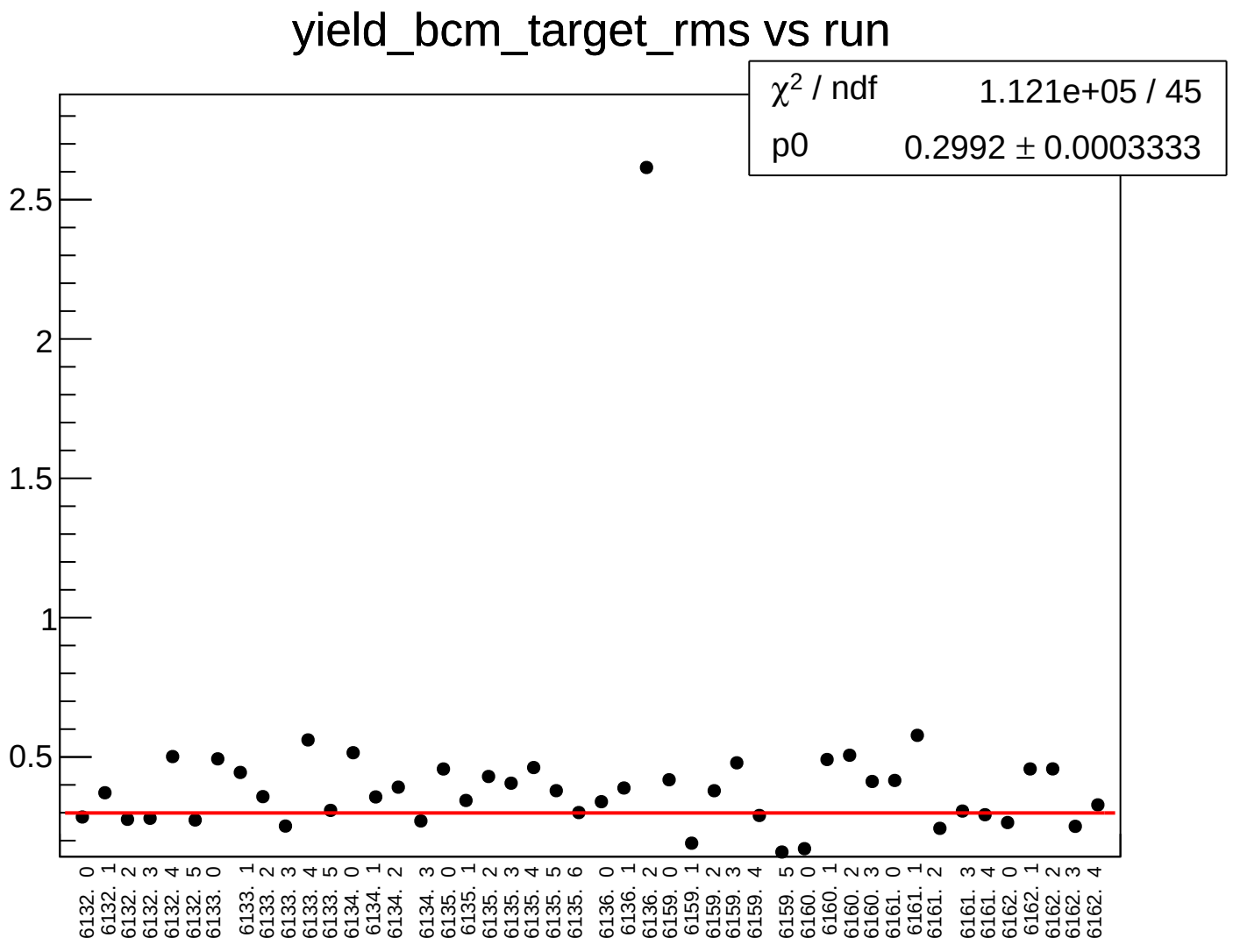

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 41.26 / 45
p0 −40.85 ± 45.72
1000
500
0
−500
−1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 457.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

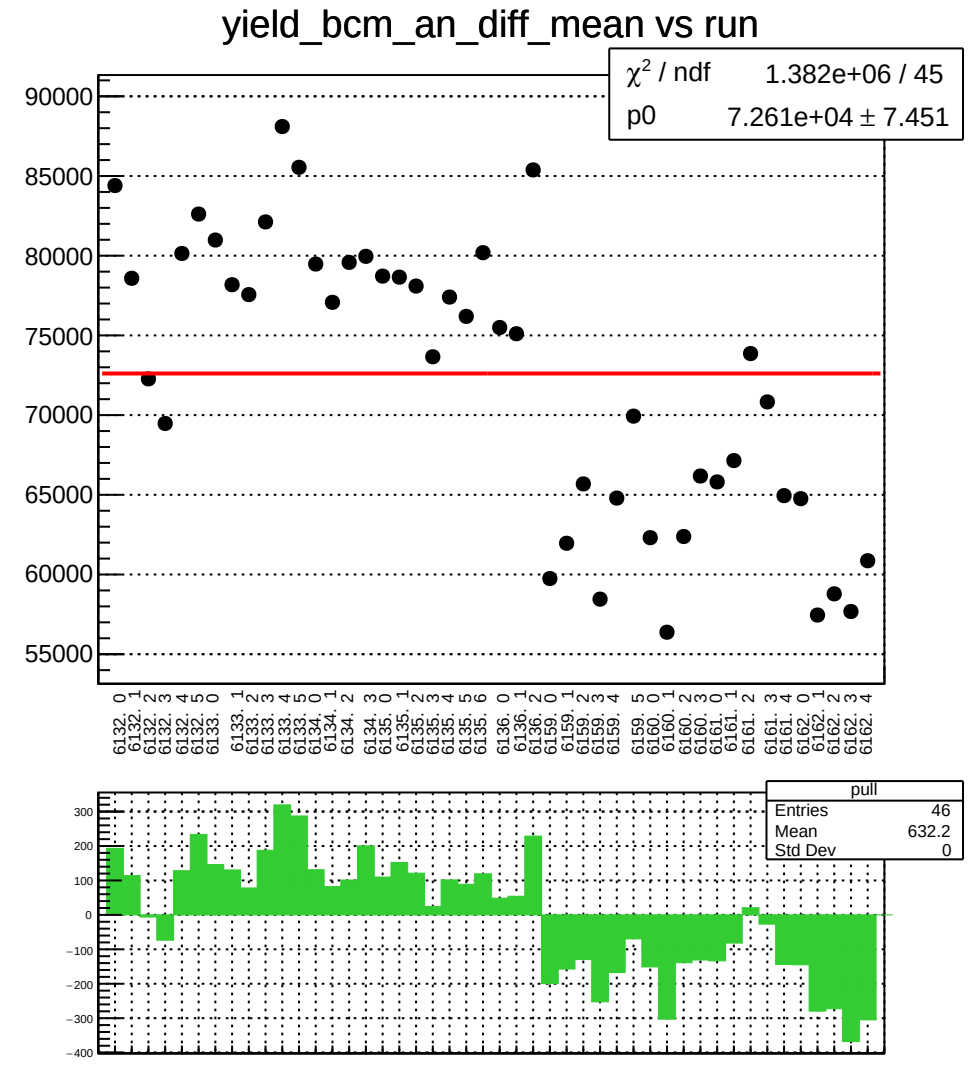

pull1D
Entries 46
Mean −0.006012
Std Dev 0.947
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

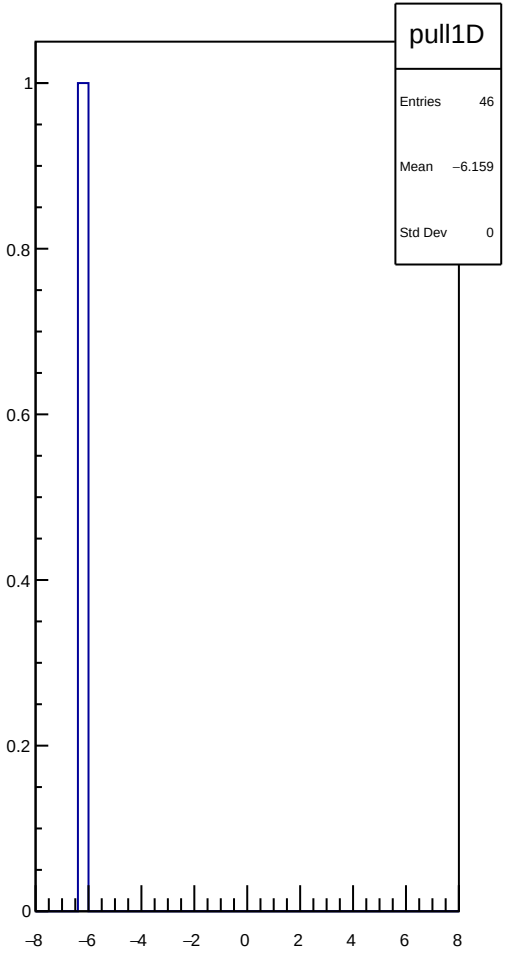

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2921 / 45
p0 30.93 ± 0.03233
35
34
33
32
31
30
29
28
27
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

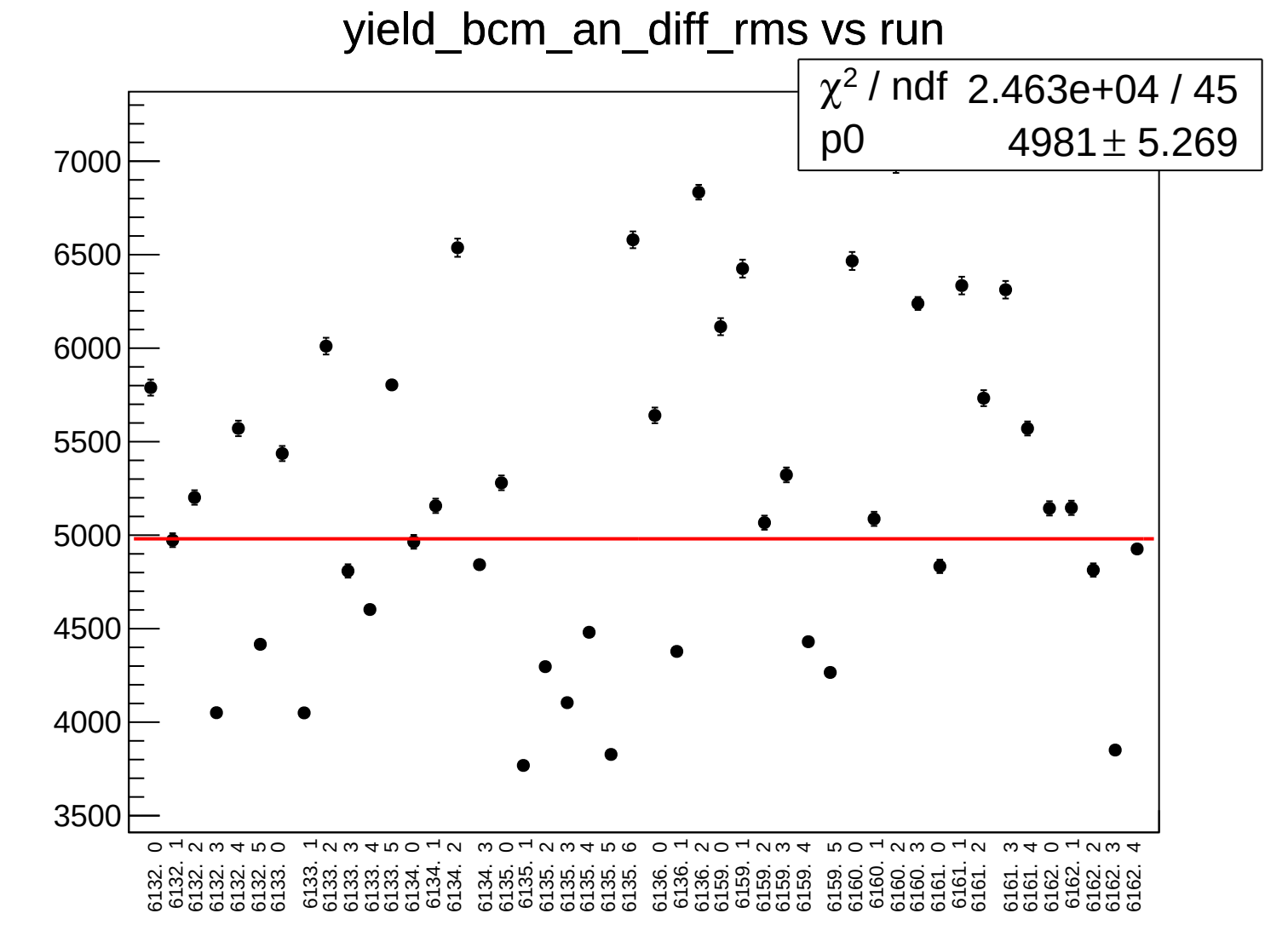

yield_bcm_target_mean vs run
χ² / ndf 7.619e+06 / 45
p0 143.7 ± 0.0004713
150
149
148
147
146
145
144
143
142
141
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −94.01
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

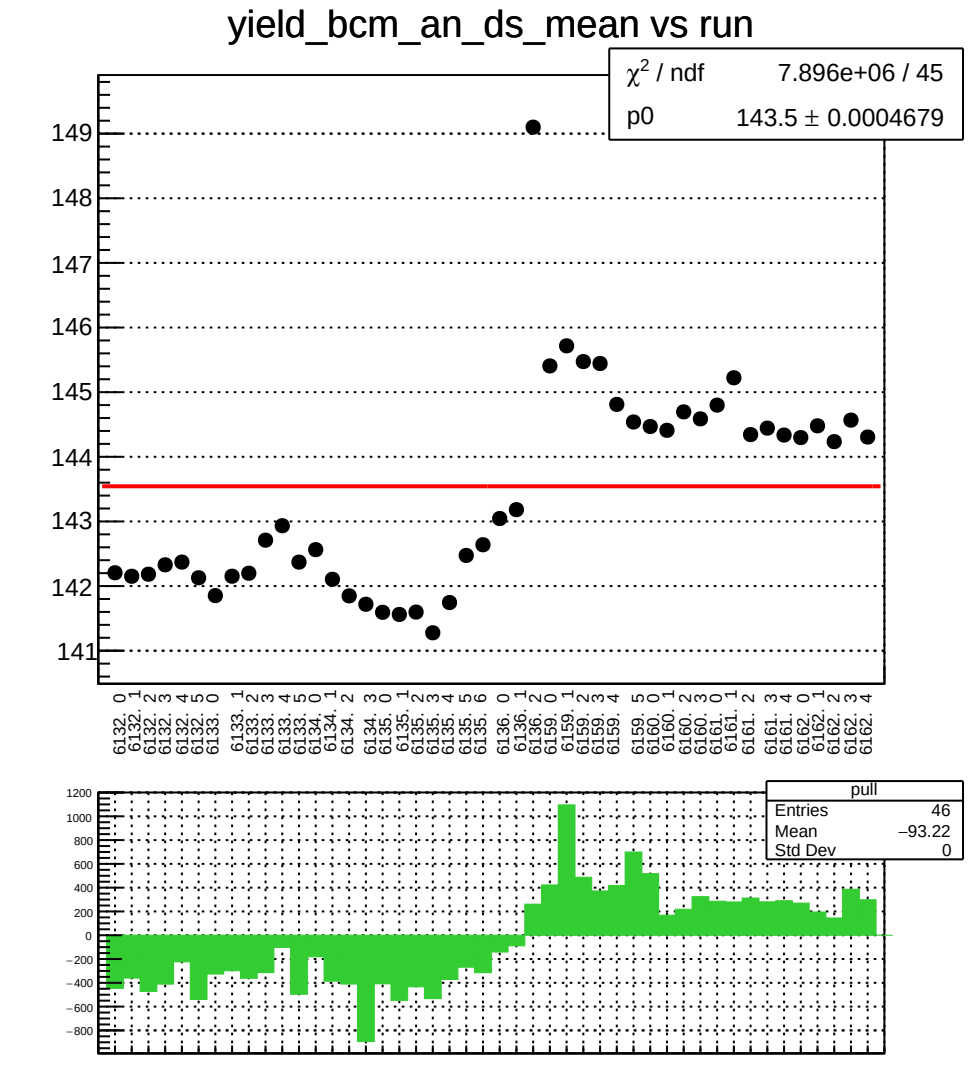

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

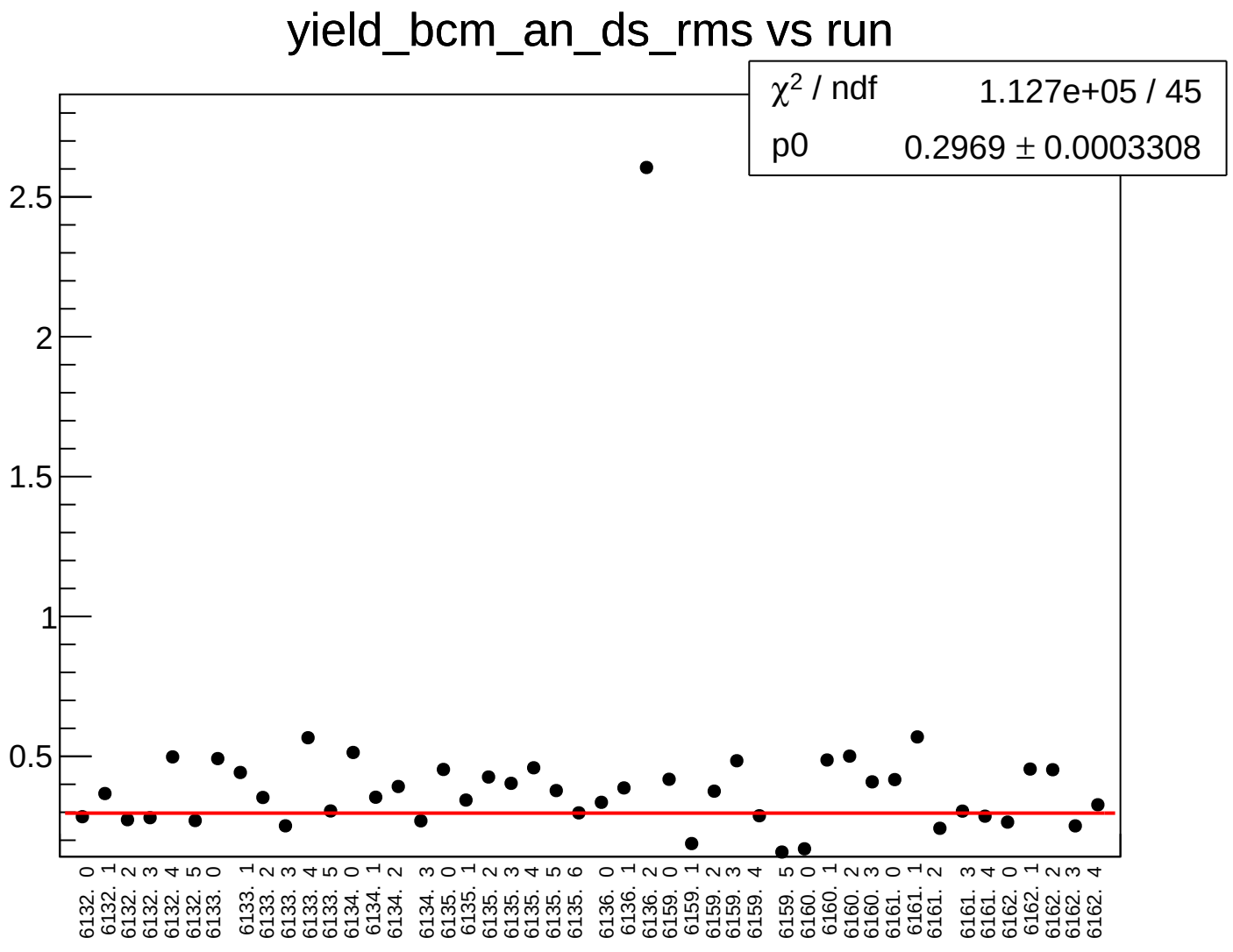

yield_bcm_target_rms vs run
χ² / ndf 1.121e+05 / 45
p0 0.2992 ± 0.0003333
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

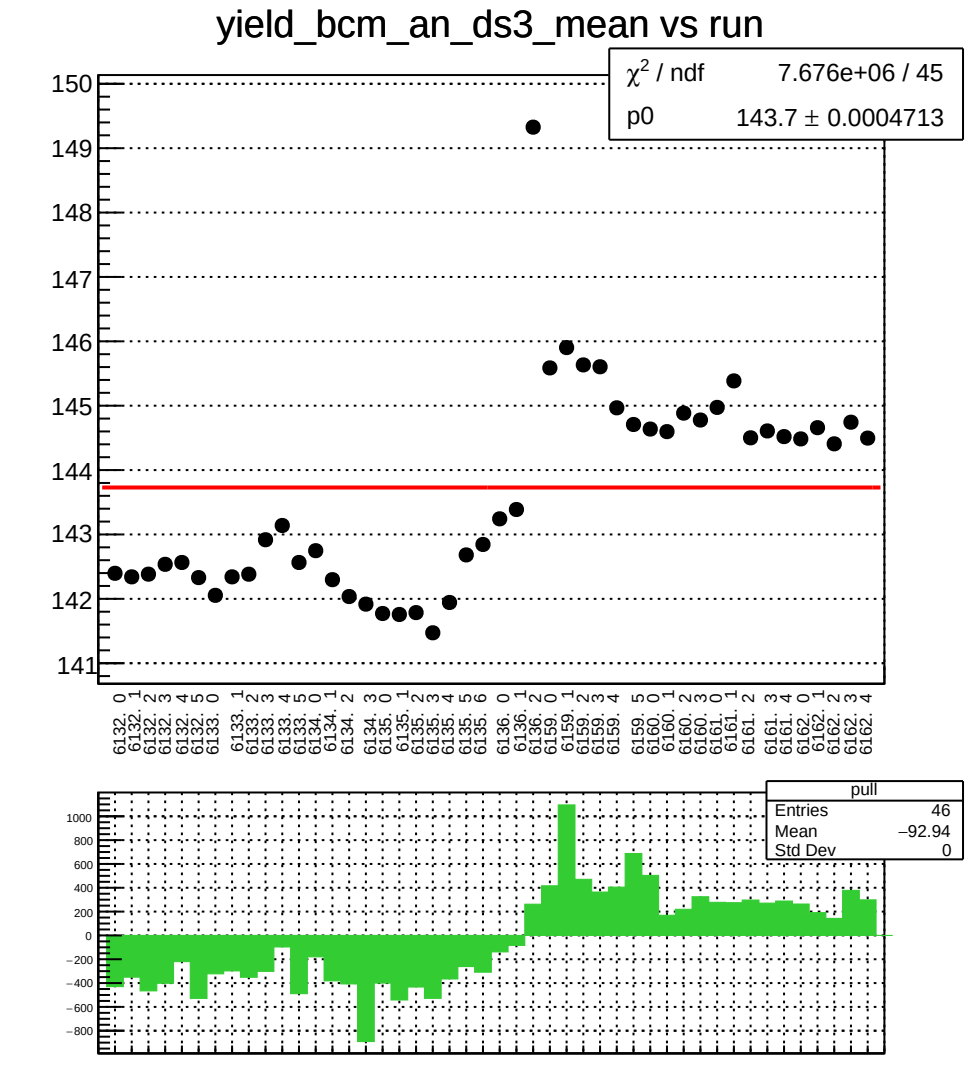

yield_bcm_an_diff_mean vs run
χ² / ndf 1.382e+06 / 45
p0 7.261e+04 ± 7.451
90000
85000
80000
75000
70000
65000
60000
55000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 632.2
Std Dev 0
300
200
100
0
−100
−200
−300
−400

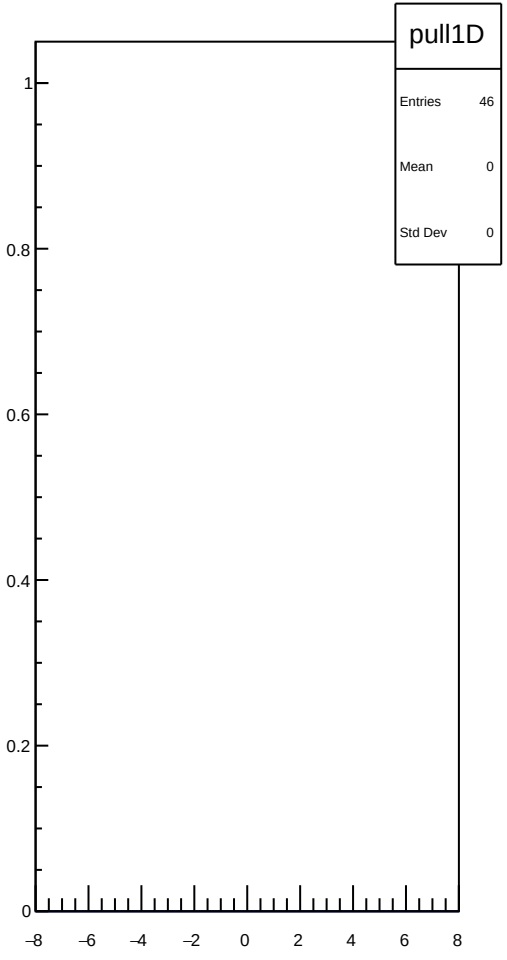

pull1D
Entries 46
Mean −6.159
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

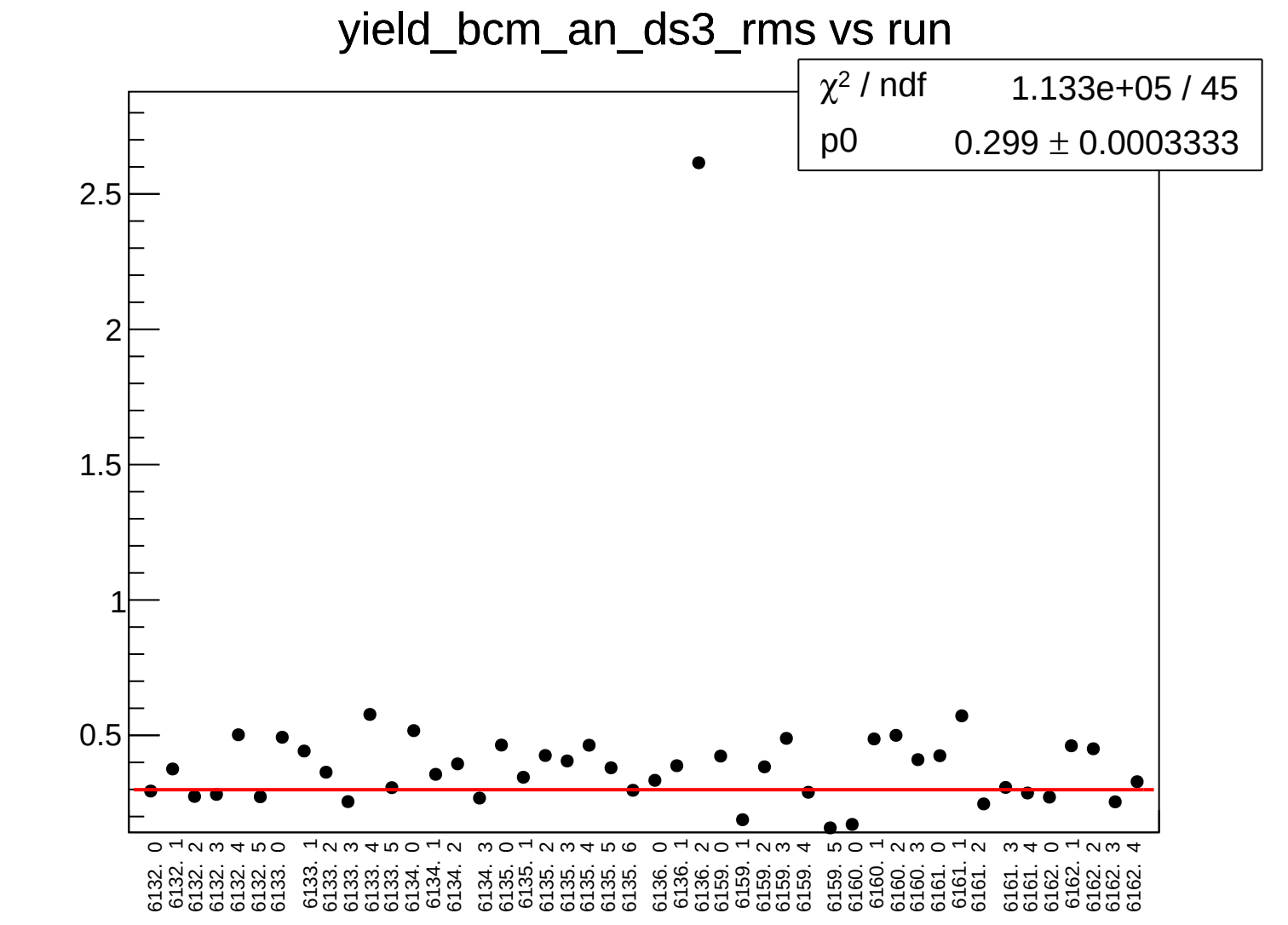

yield_bcm_an_diff_rms vs run
χ² / ndf 2.463e+04 / 45
p0 4981 ± 5.269
7000
6500
6000
5500
5000
4500
4000
3500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

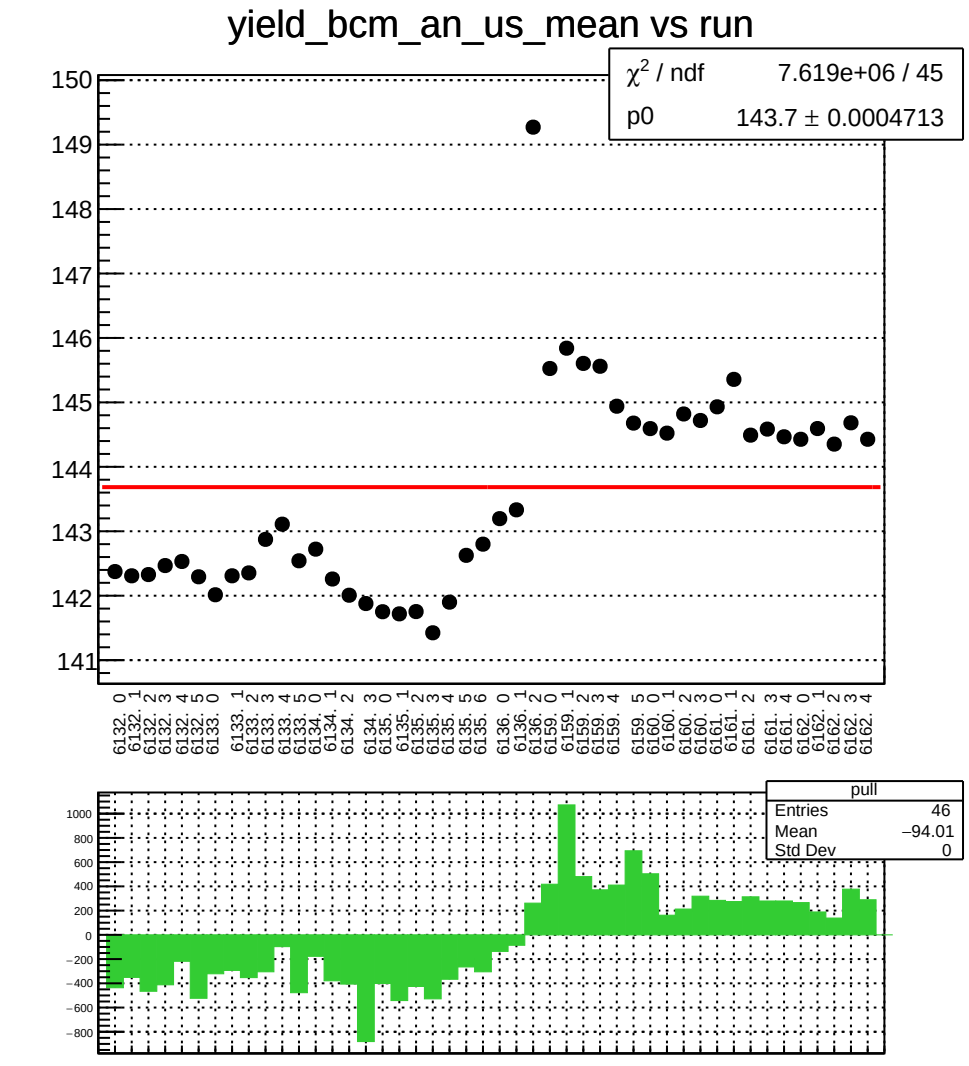

yield_bcm_an_ds_mean vs run
χ² / ndf 7.896e+06 / 45
p0 143.5 ± 0.0004679
149
148
147
146
145
144
143
142
141
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −93.22
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

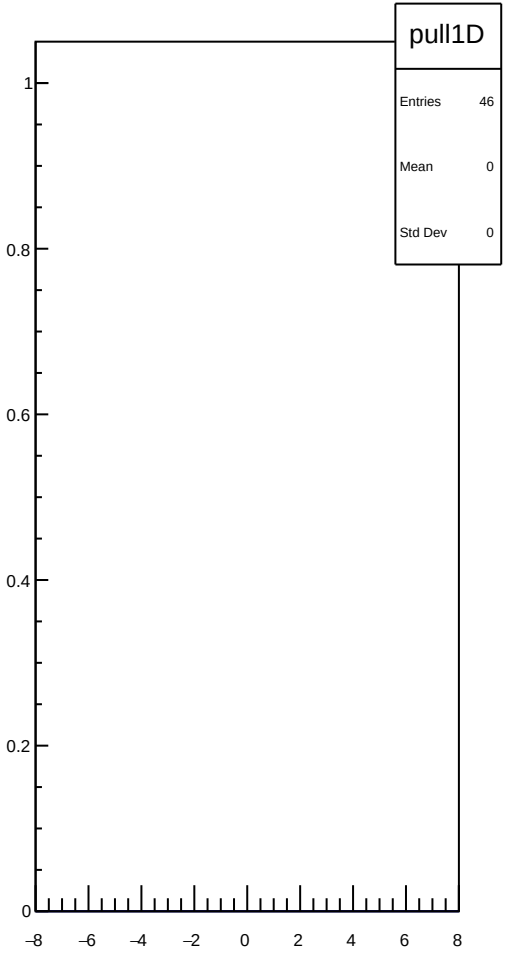

yield_bcm_an_ds_rms vs run
χ² / ndf 1.127e+05 / 45
p0 0.2969 ± 0.0003308
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

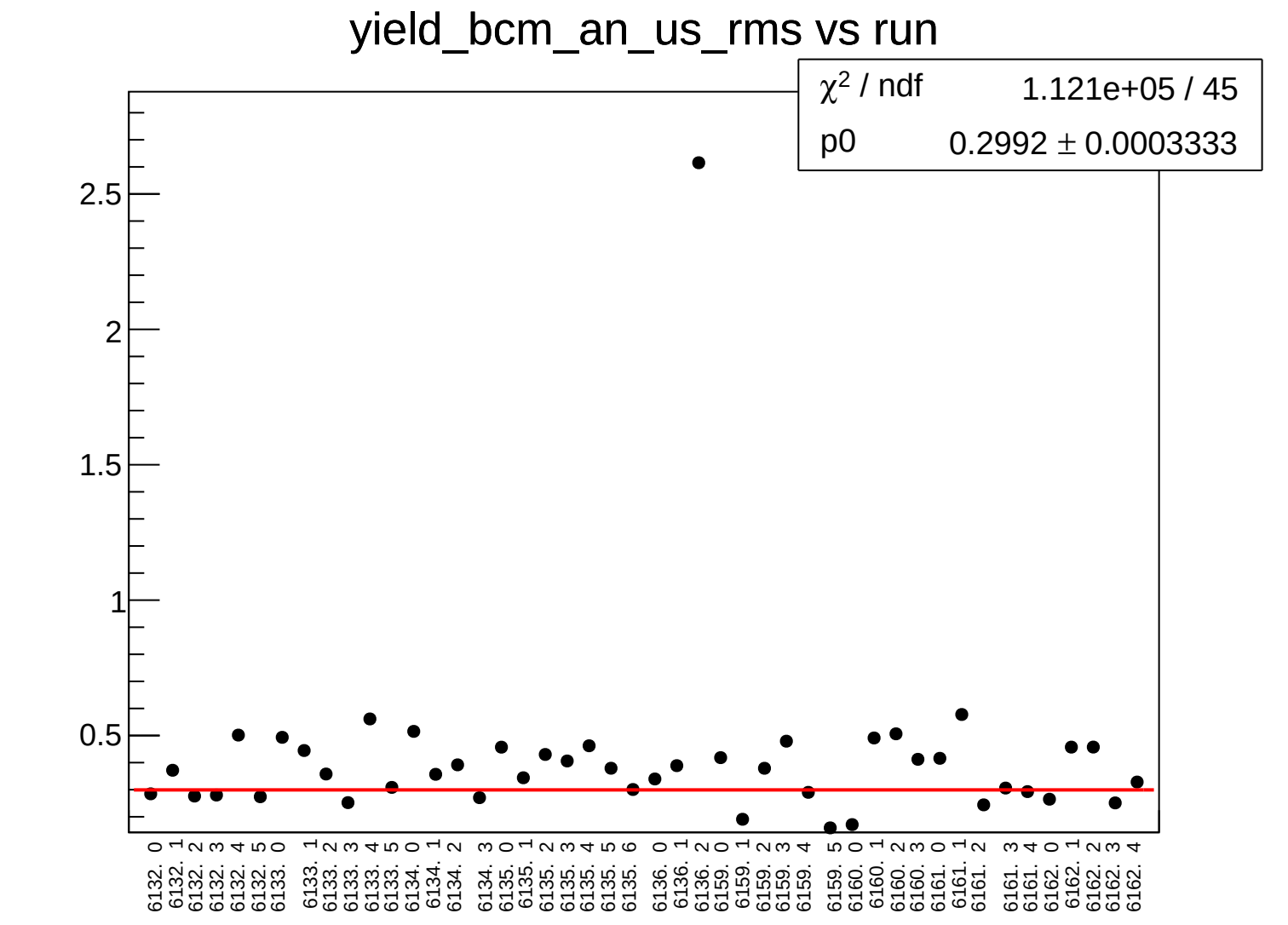

yield_bcm_an_ds3_mean vs run
χ² / ndf 7.676e+06 / 45
p0 143.7 ± 0.0004713
150
149
148
147
146
145
144
143
142
141
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −92.94
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

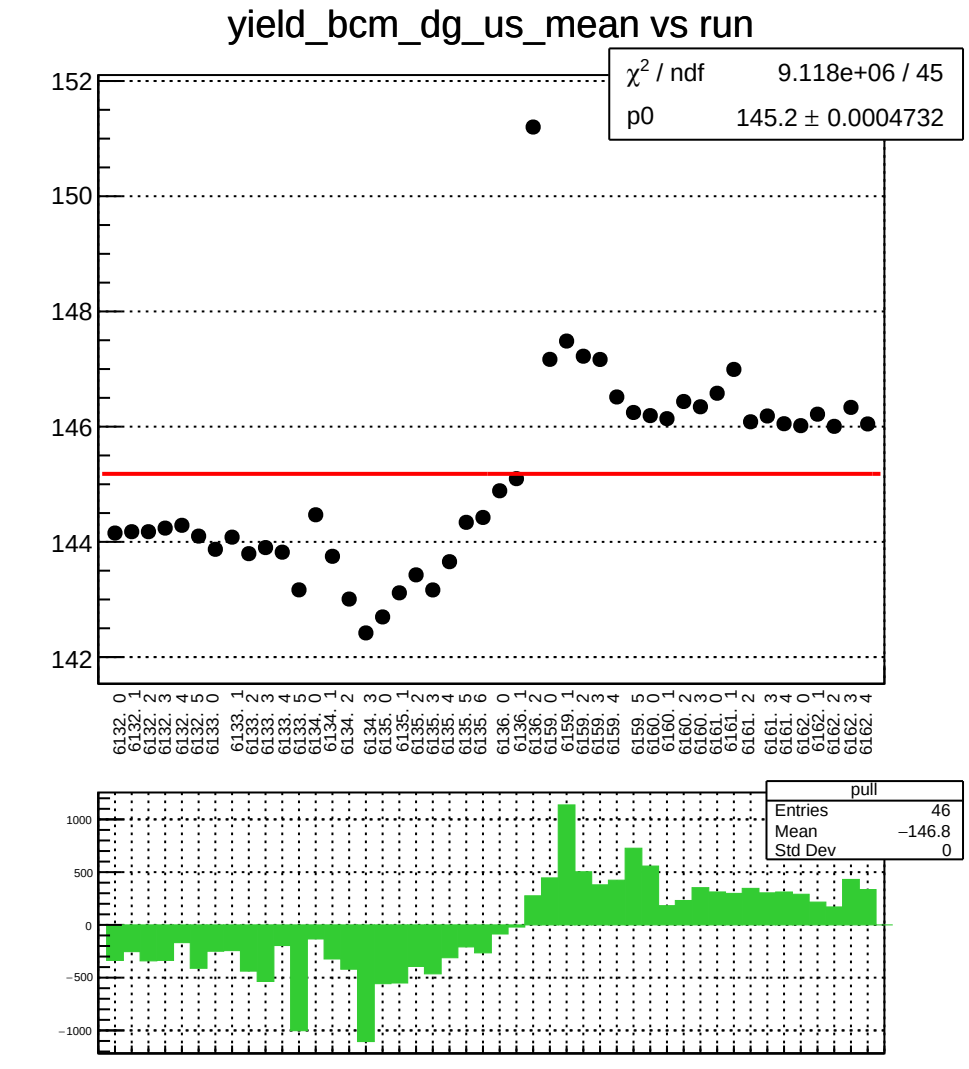

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

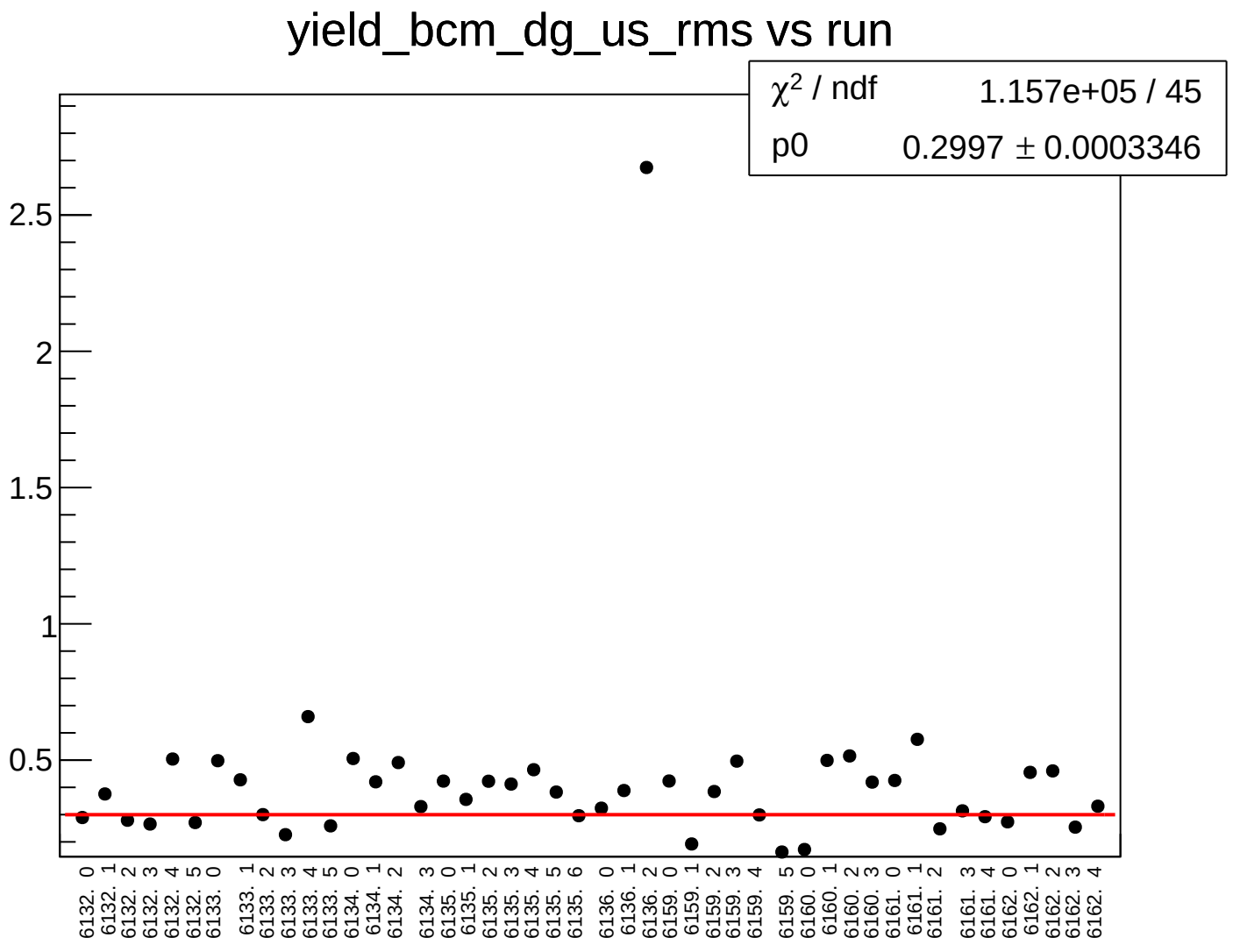

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.133e+05 / 45
p0 0.299 ± 0.0003333
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

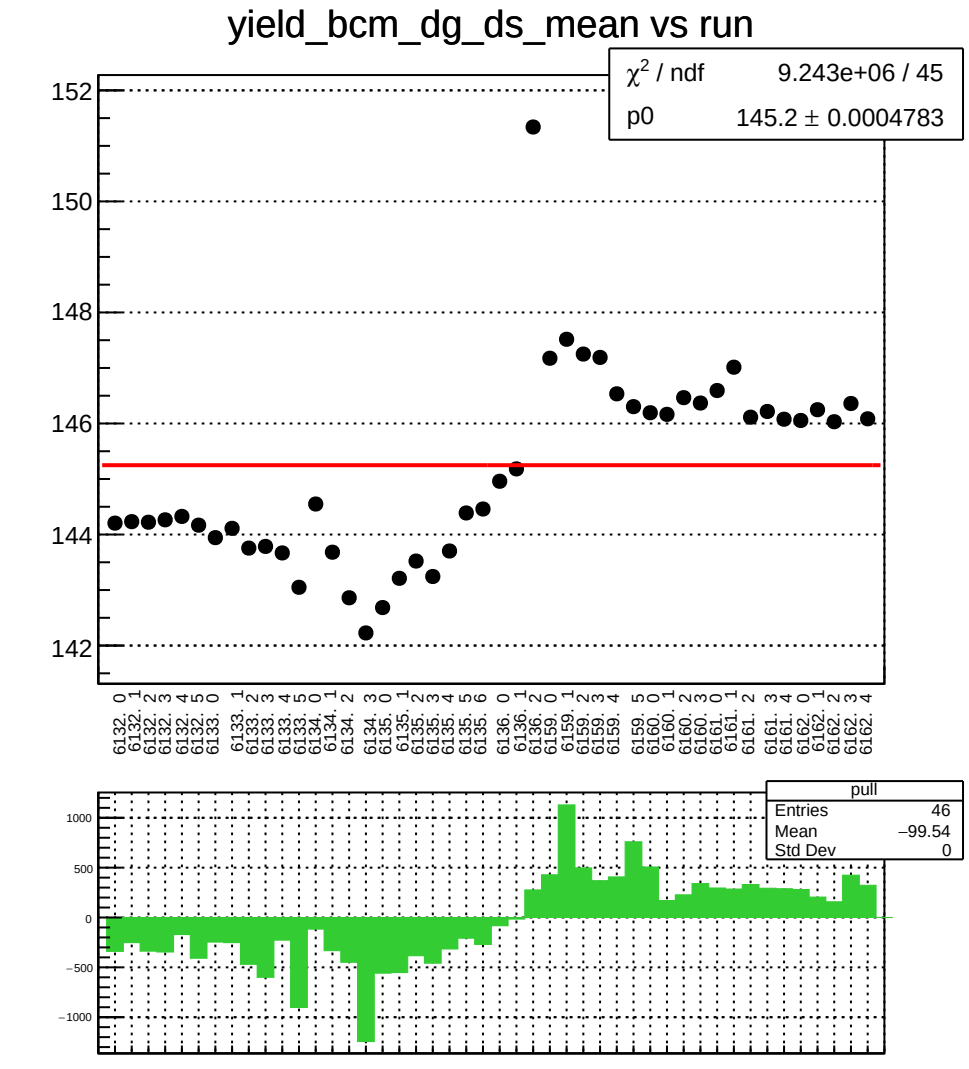

yield_bcm_an_us_mean vs run
χ² / ndf 7.619e+06 / 45
p0 143.7 ± 0.0004713
150
149
148
147
146
145
144
143
142
141
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −94.01
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

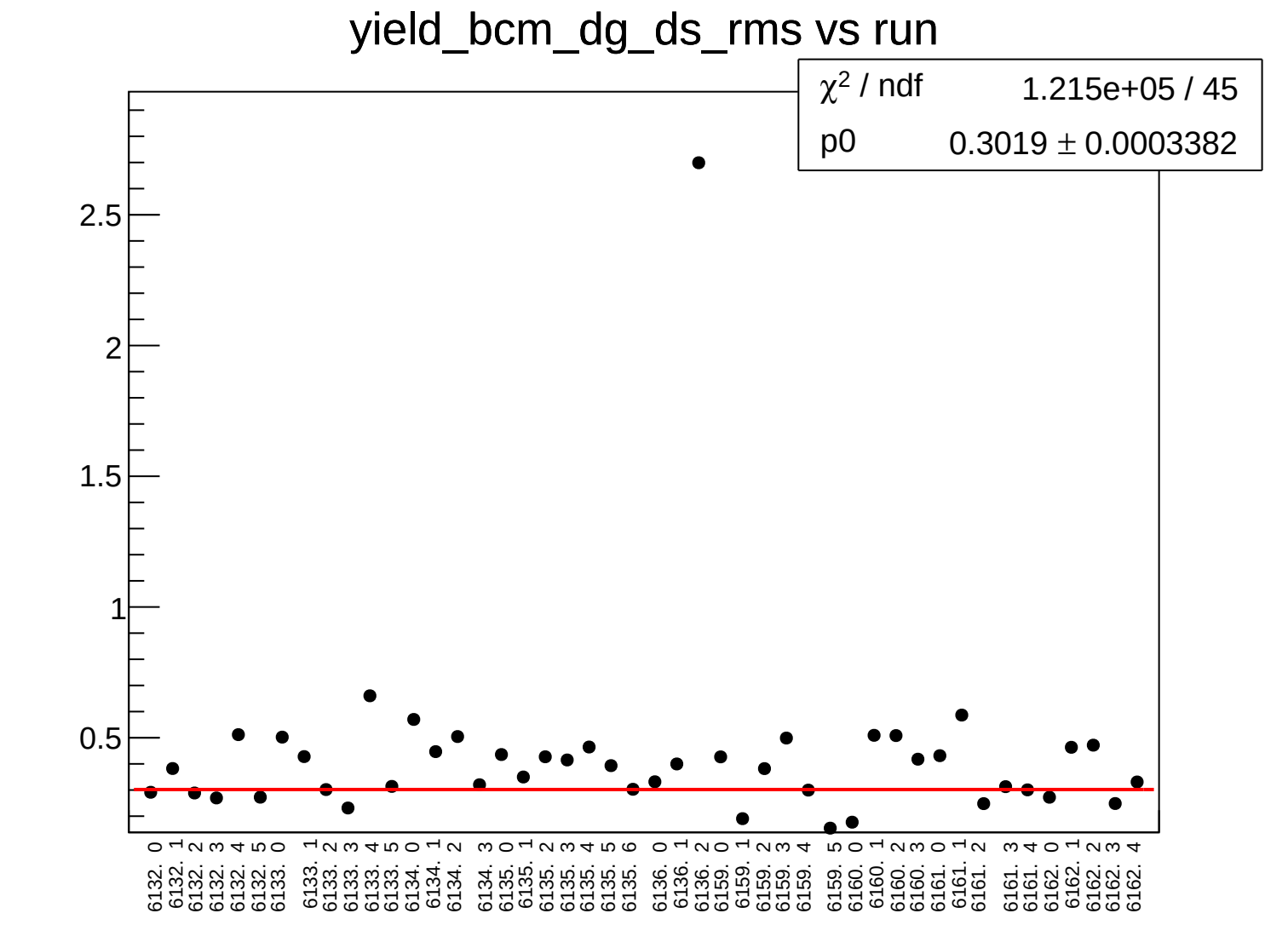

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

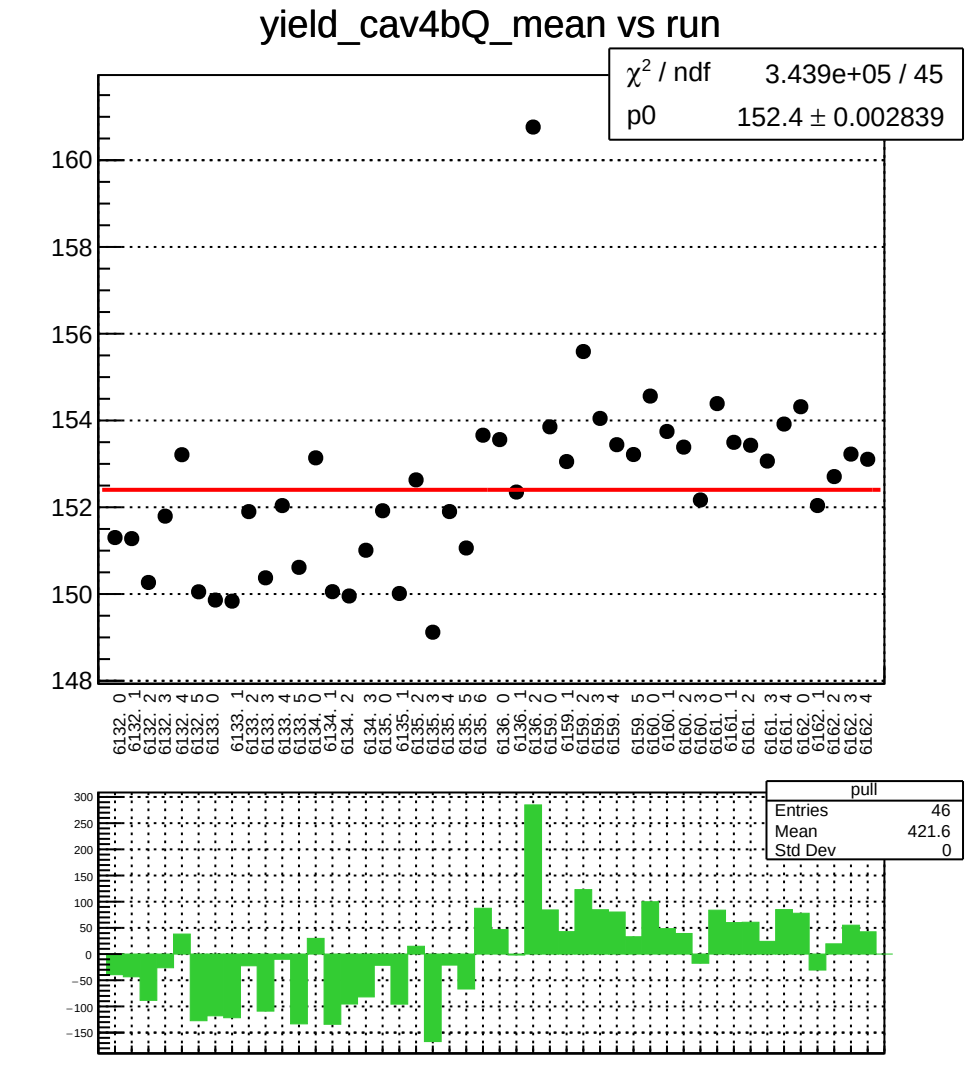

yield_bcm_an_us_rms vs run
χ² / ndf 1.121e+05 / 45
p0 0.2992 ± 0.0003333
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

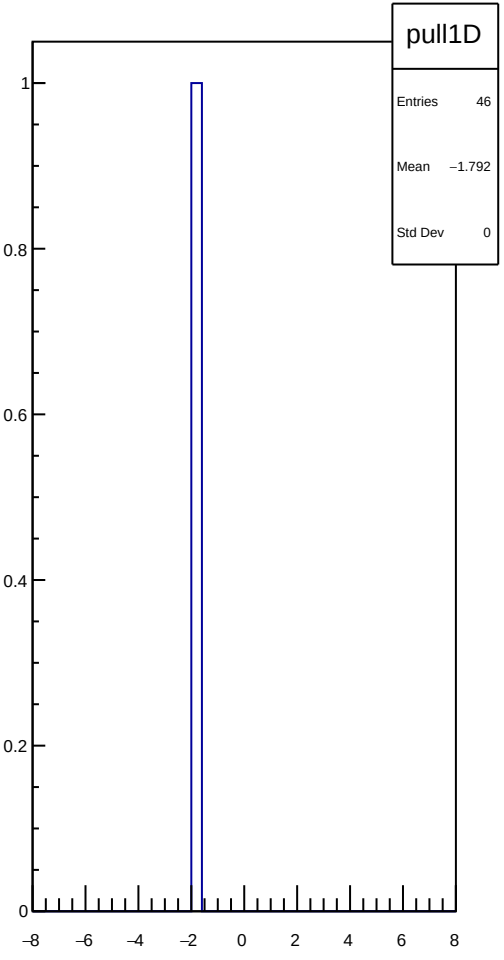

yield_bcm_dg_us_mean vs run
χ² / ndf 9.118e+06 / 45
p0 145.2 ± 0.0004732
152
150
148
146
144
142
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −146.8
Std Dev 0
1000
500
0
−500
−1000
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

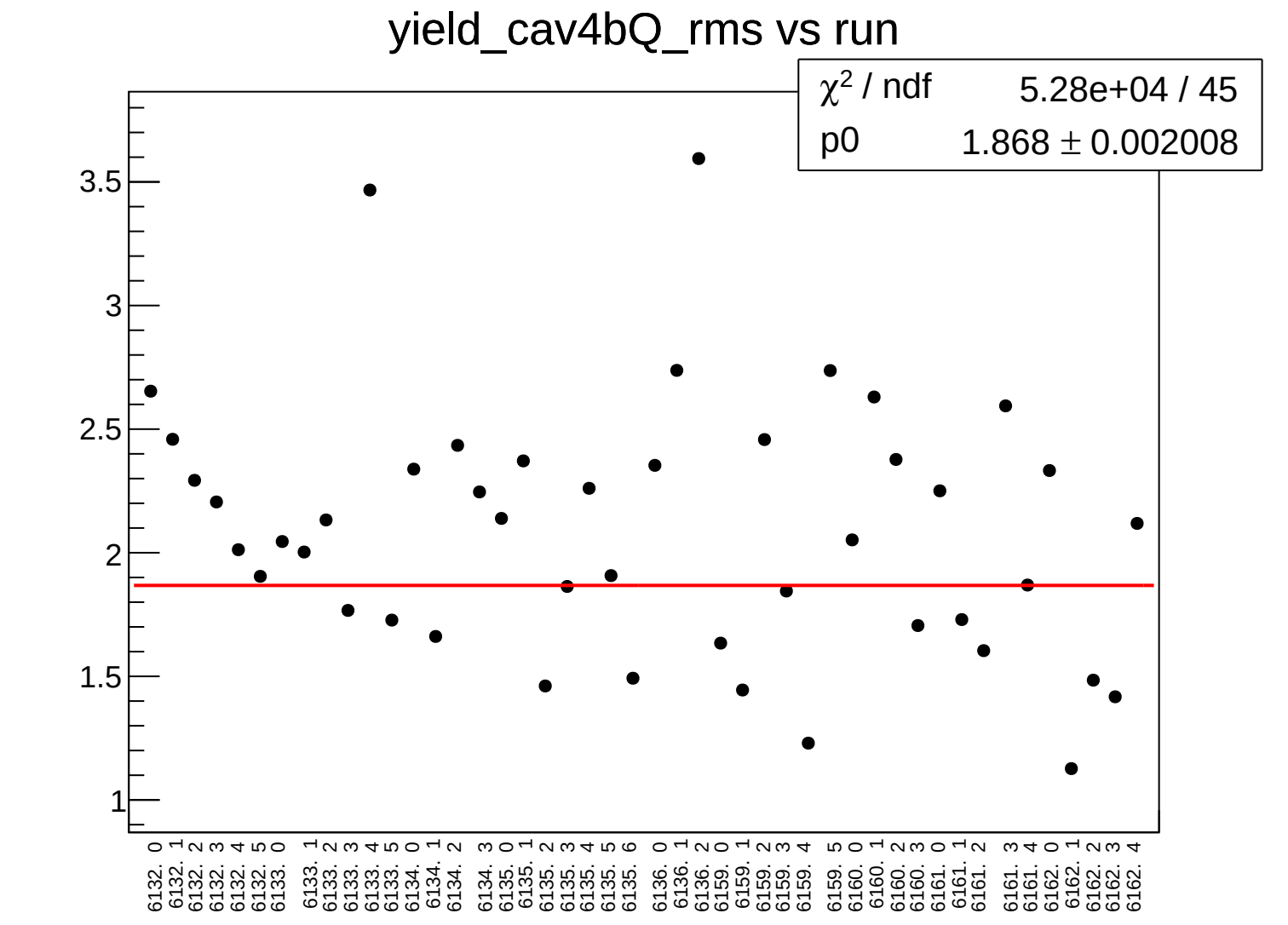

yield_bcm_dg_us_rms vs run
χ² / ndf 1.157e+05 / 45
p0 0.2997 ± 0.0003346
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

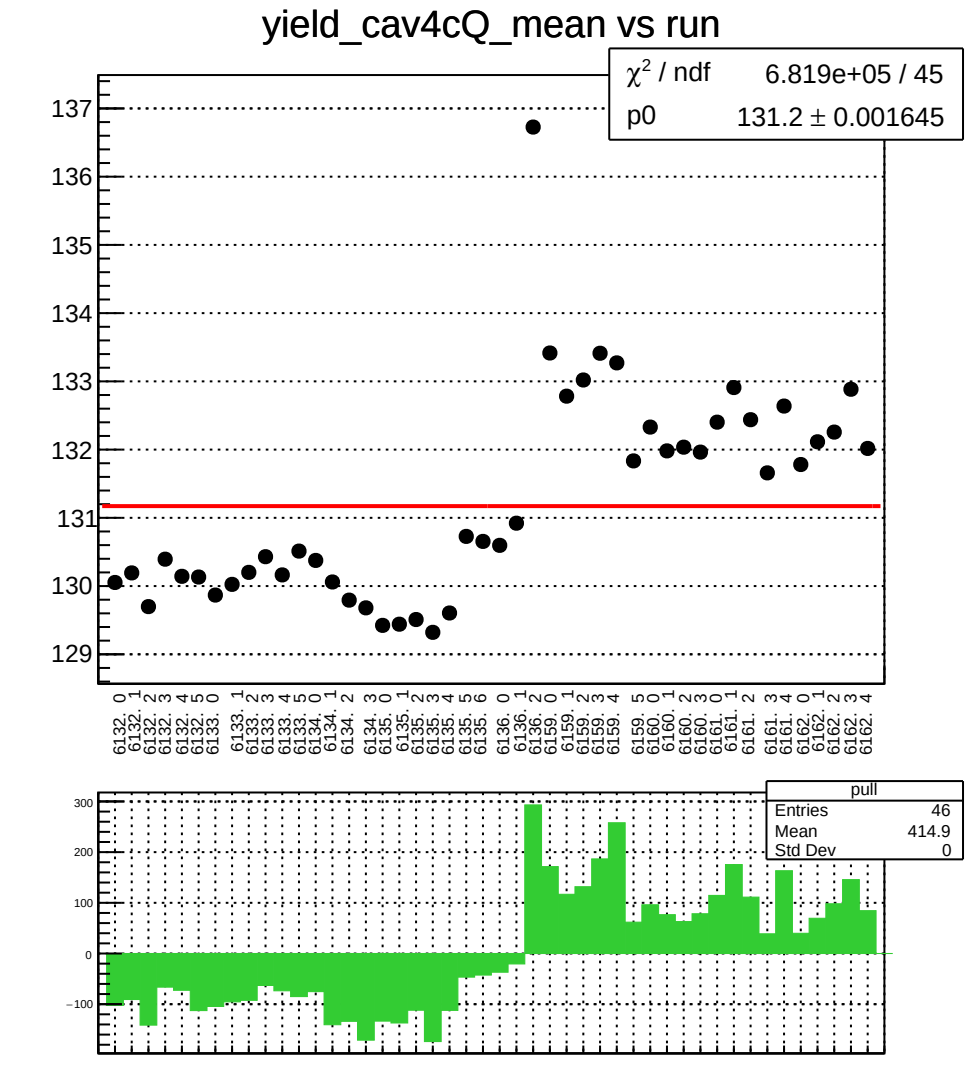

yield_bcm_dg_ds_mean vs run
χ² / ndf 9.243e+06 / 45
p0 145.2 ± 0.0004783
152
150
148
146
144
142
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −99.54
Std Dev 0
1000
500
0
−500
−1000
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

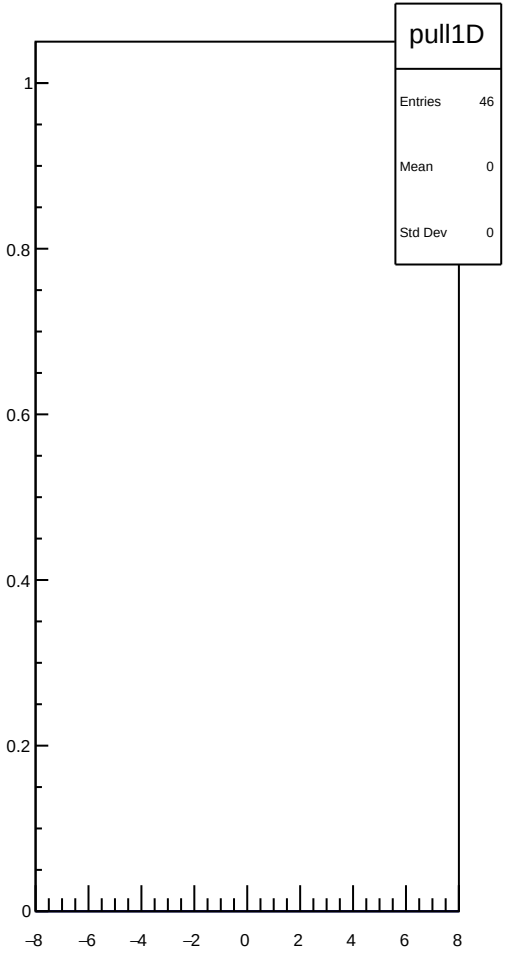

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.215e+05 / 45
p0 0.3019 ± 0.0003382
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

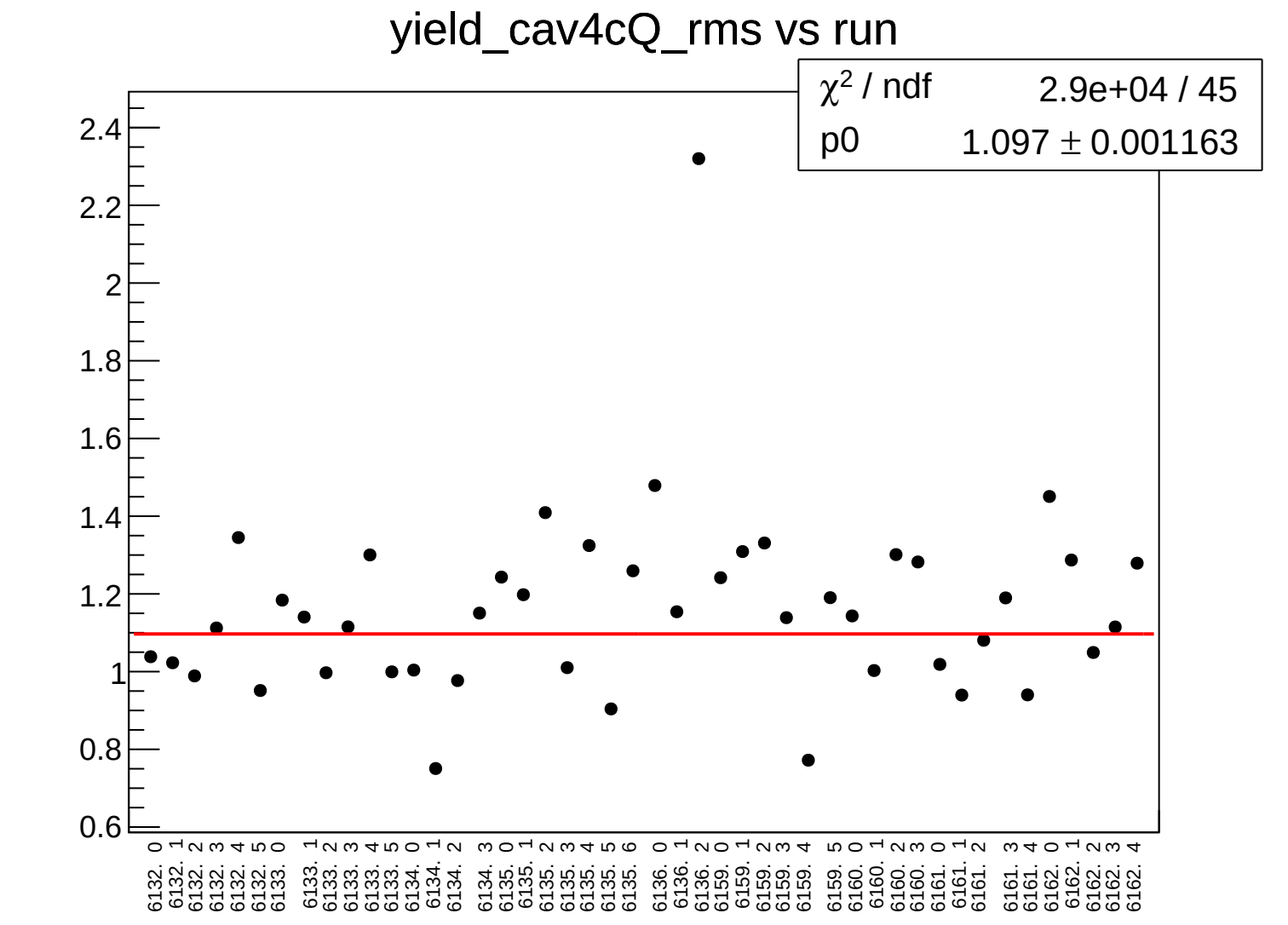

yield_cav4bQ_mean vs run
χ² / ndf 3.439e+05 / 45
p0 152.4 ± 0.002839
160
158
156
154
152
150
148
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 421.6
Std Dev 0
300
250
200
150
100
50
0
−50
−100
−150

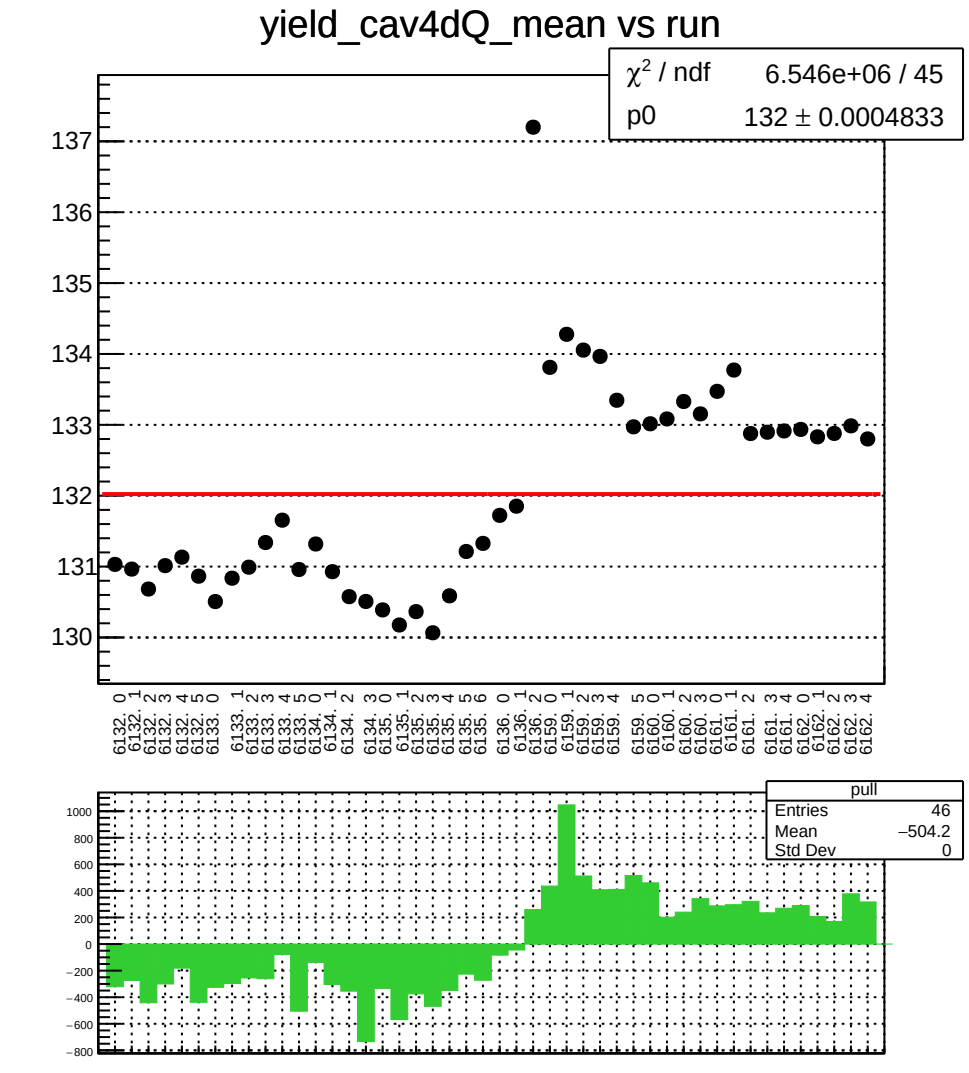

pull1D
Entries 46
Mean −1.792
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

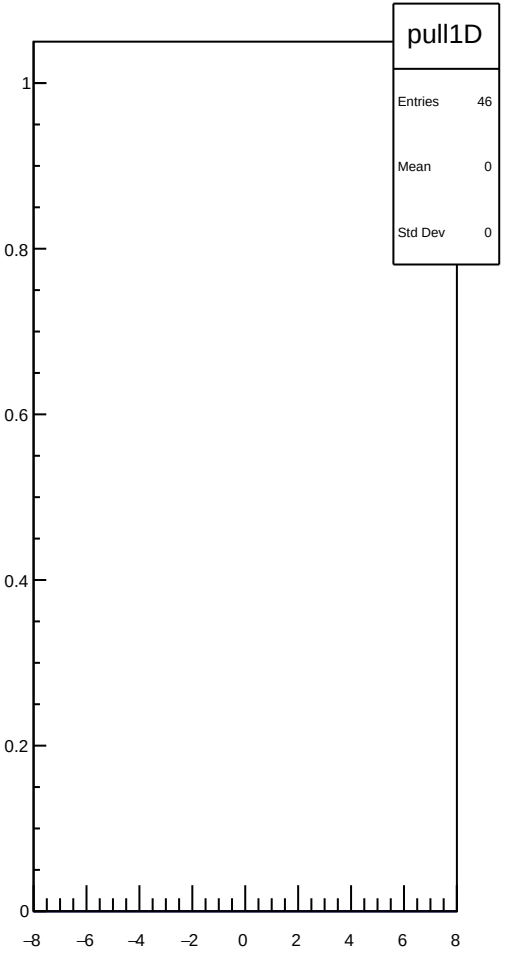

yield_cav4bQ_rms vs run
χ^2 / ndf 5.28e+04 / 45
p0 1.868 ± 0.002008
3.5
3
2.5
2
1.5
1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

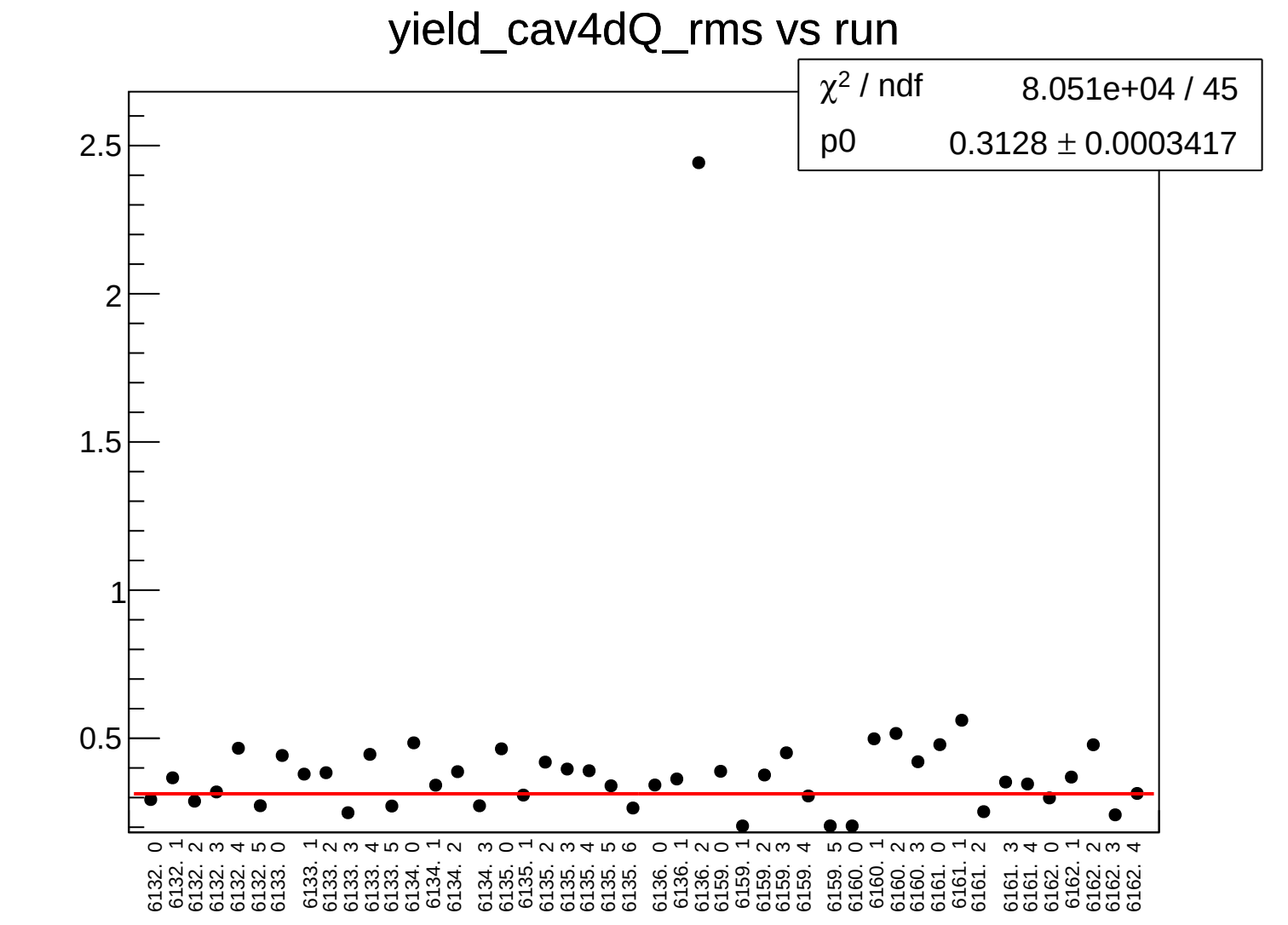

yield_cav4cQ_mean vs run
χ² / ndf 6.819e+05 / 45
p0 131.2 ± 0.001645
pull
Entries 46
Mean 414.9
Std Dev 0

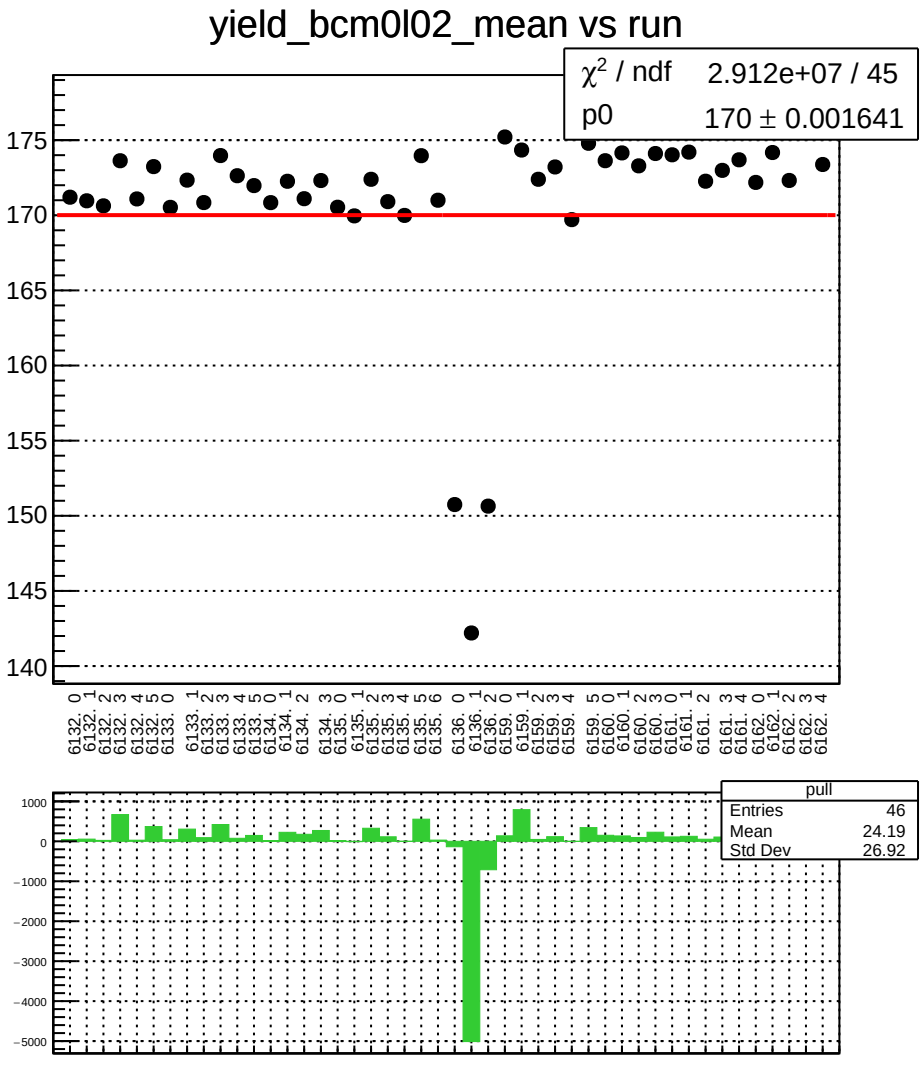

pull1D
Entries 46
Mean 0
Std Dev 0

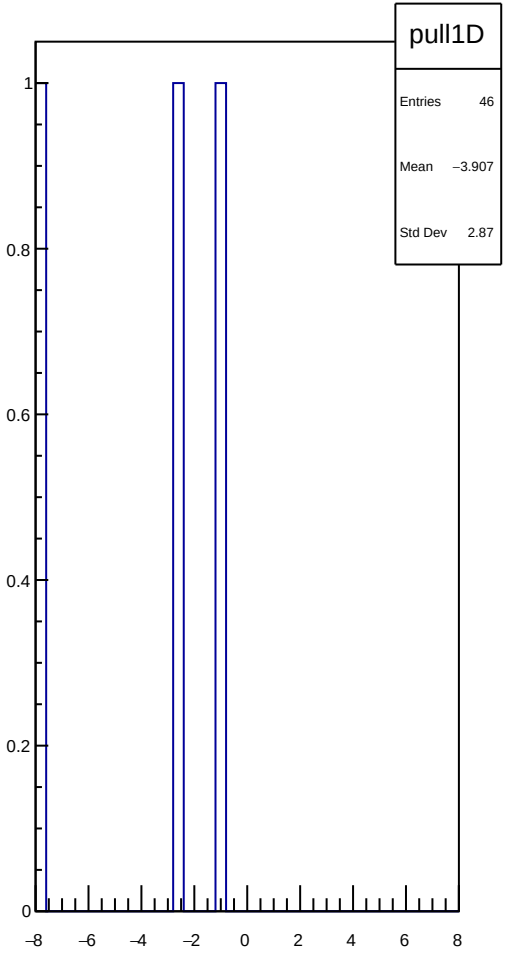

yield_cav4cQ_rms vs run
χ² / ndf 2.9e+04 / 45
p0 1.097 ± 0.001163
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

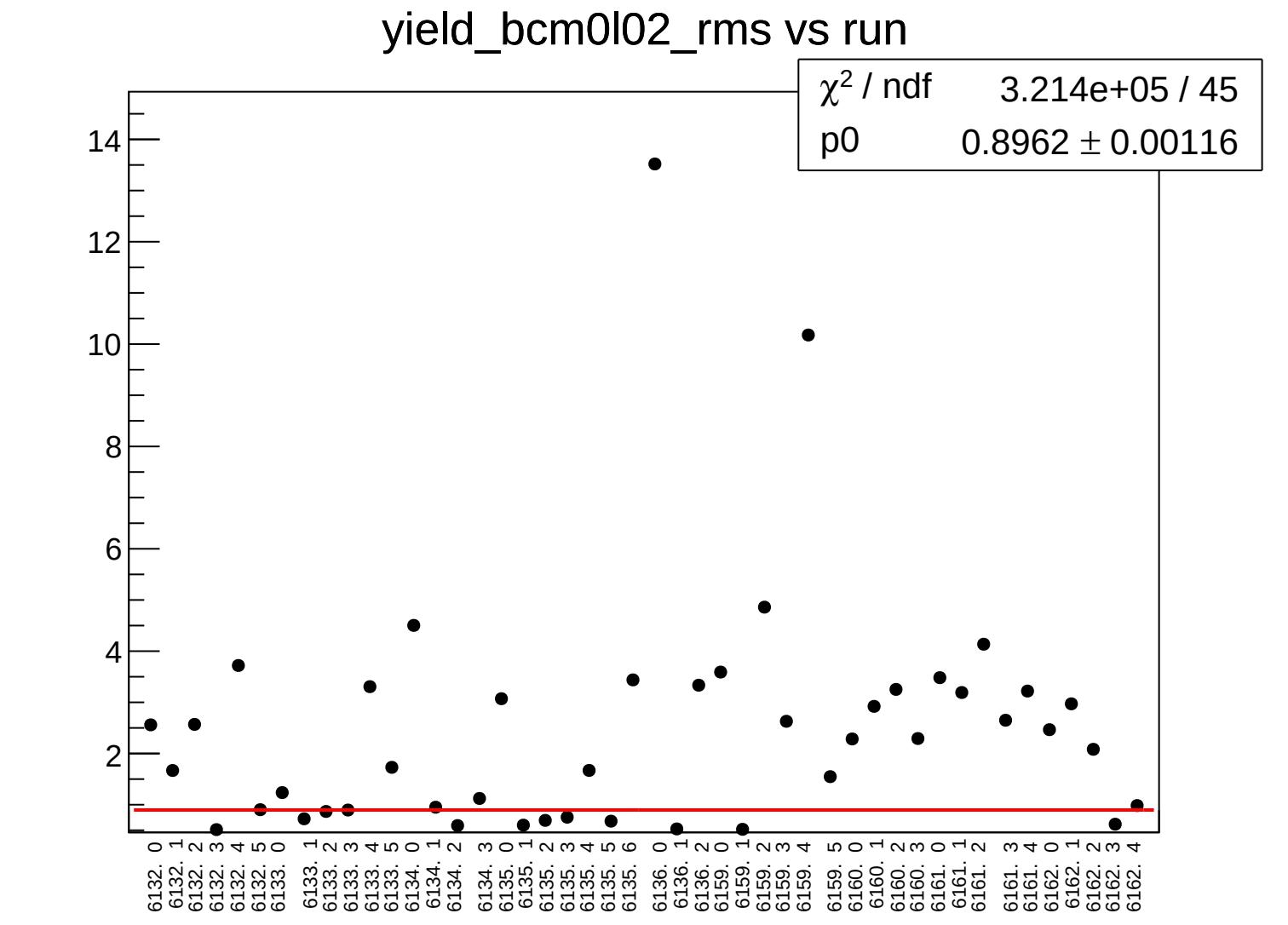

yield_cav4dQ_mean vs run
χ² / ndf 6.546e+06 / 45
p0 132 ± 0.0004833
137
136
135
134
133
132
131
130
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean –504.2
Std Dev 0
1000
800
600
400
200
0
–200
–400
–600
–800

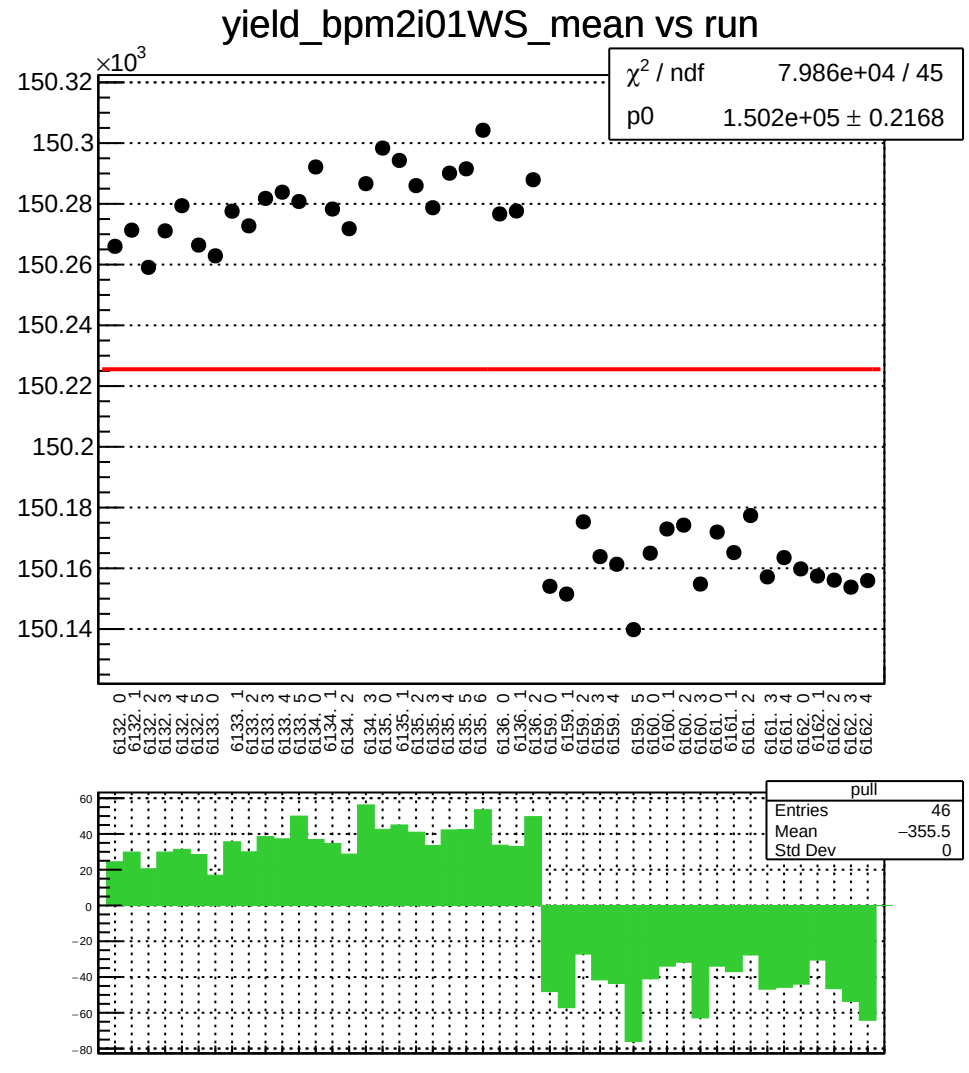

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

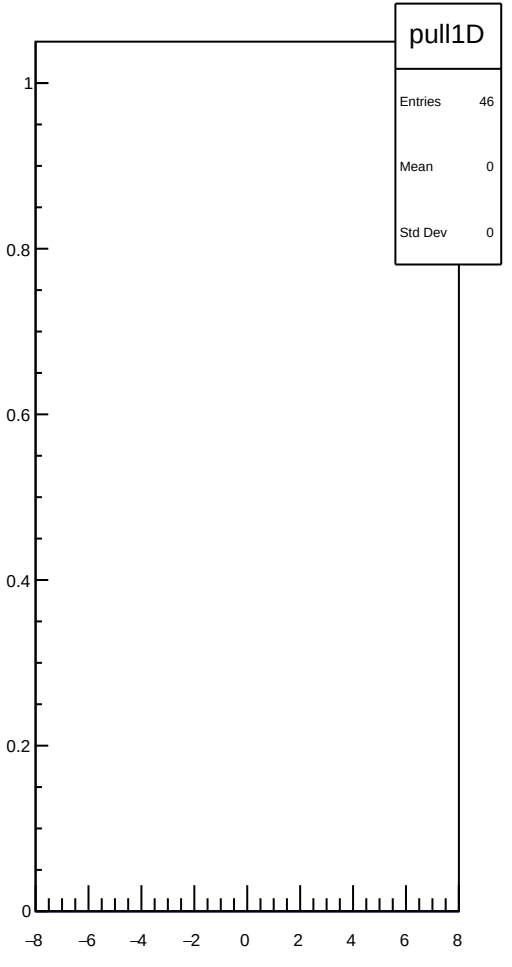

yield_cav4dQ_rms vs run
χ² / ndf 8.051e+04 / 45
p0 0.3128 ± 0.0003417
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

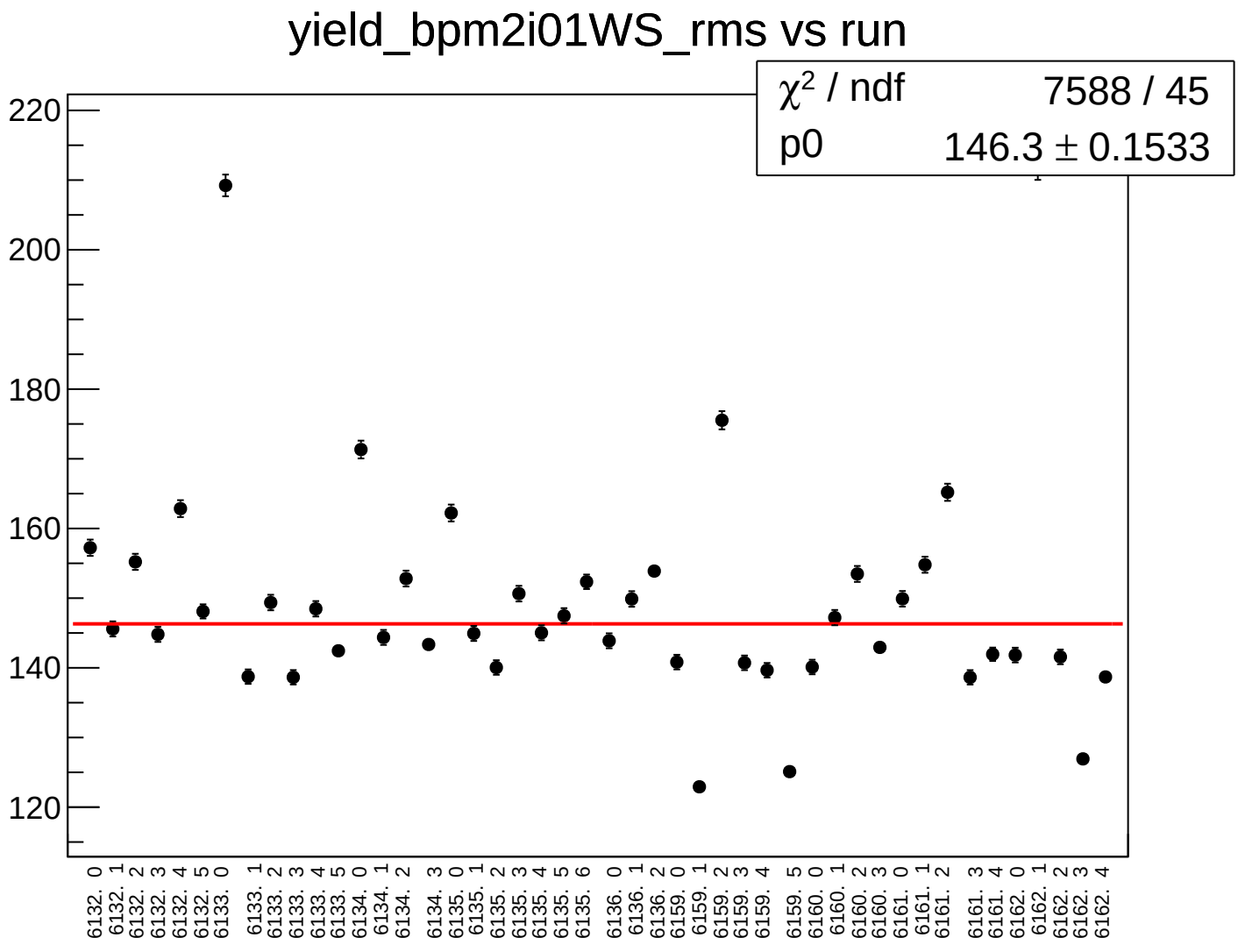

yield_bcm0l02_mean vs run
χ² / ndf 2.912e+07 / 45
p0 170 ± 0.001641
175
170
165
160
155
150
145
140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 24.19
Std Dev 26.92
1000
0
−1000
−2000
−3000
−4000
−5000

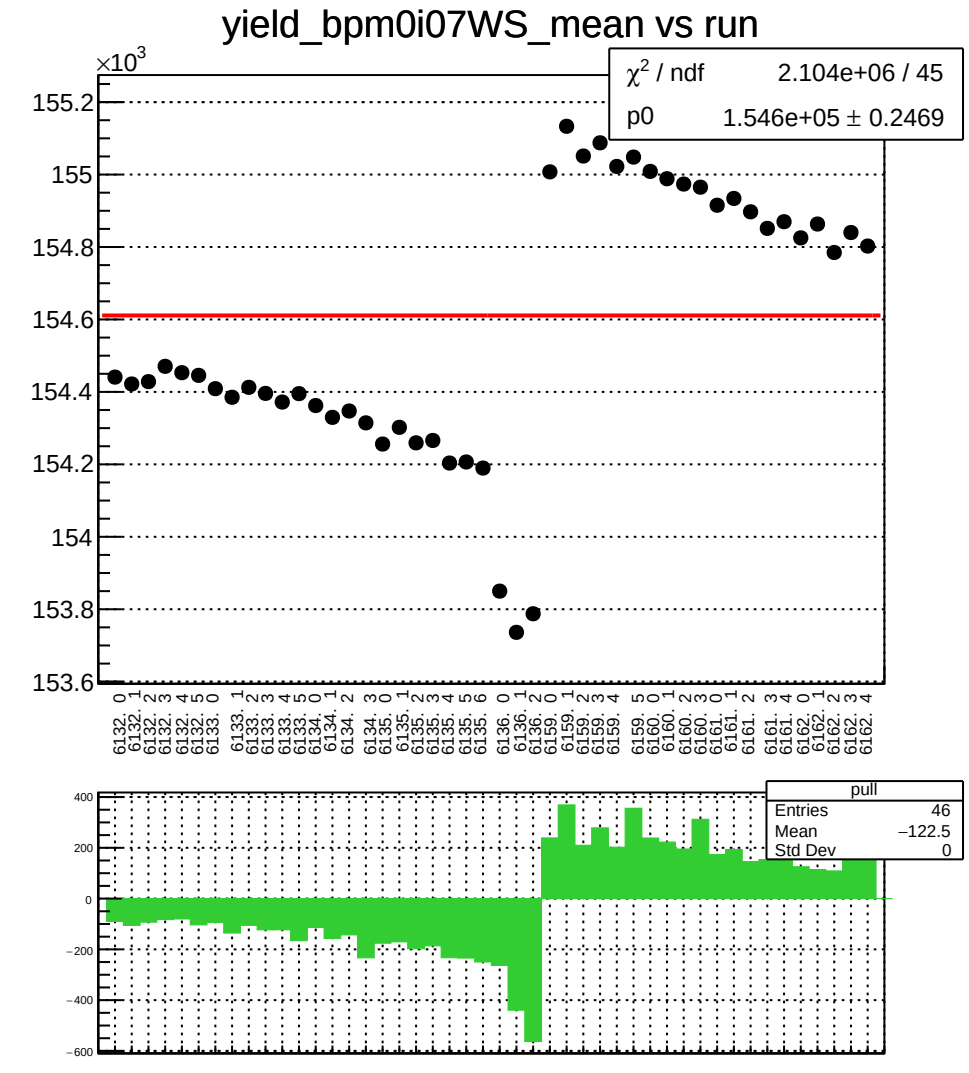

pull1D
Entries 46
Mean −3.907
Std Dev 2.87
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

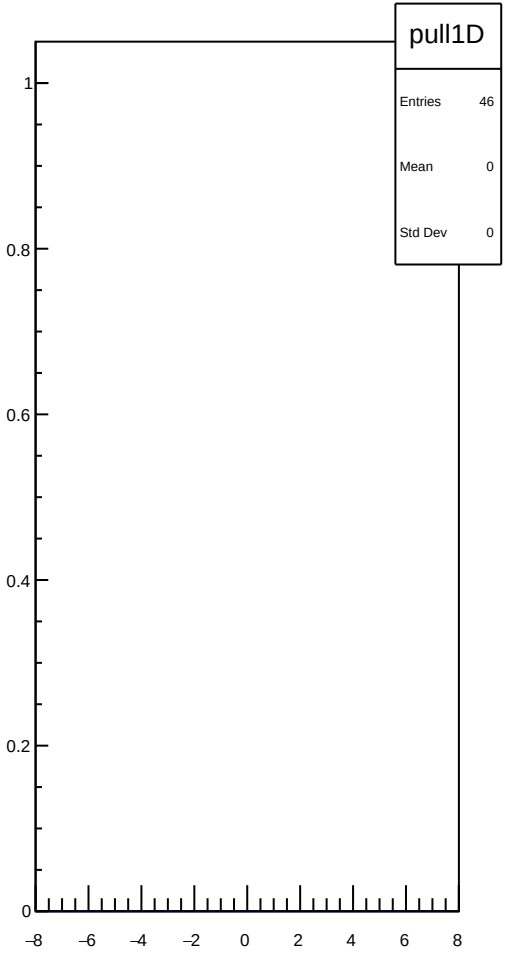

yield_bcm0l02_rms vs run
χ^2 / ndf 3.214e+05 / 45
p0 0.8962 ± 0.00116
14
12
10
8
6
4
2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

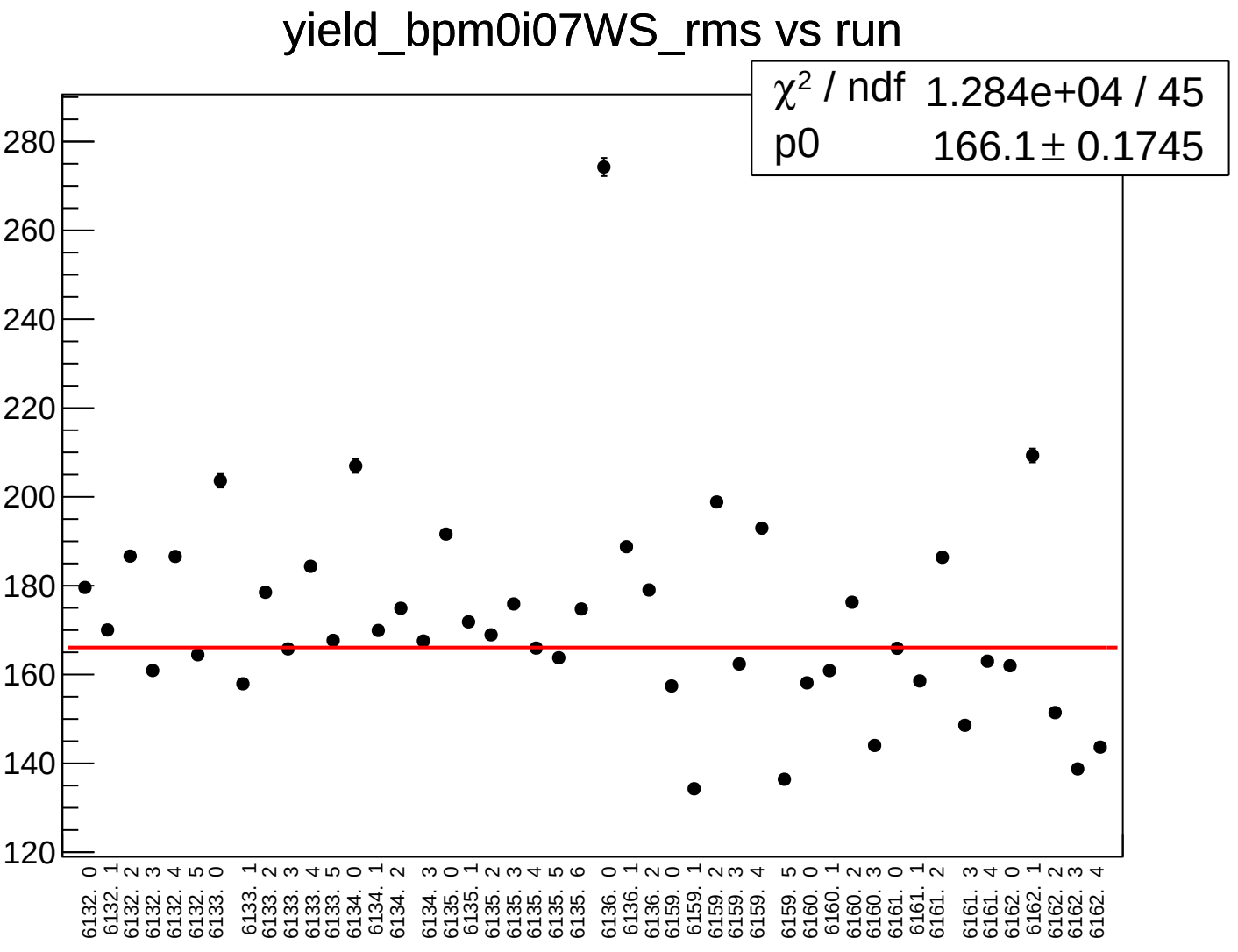

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 7.986e+04 / 45
p0 1.502e+05 ± 0.2168
150.32
150.3
150.28
150.26
150.24
150.22
150.2
150.18
150.16
150.14
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −355.5
Std Dev 0
60
40
20
0
−20
−40
−60
−80

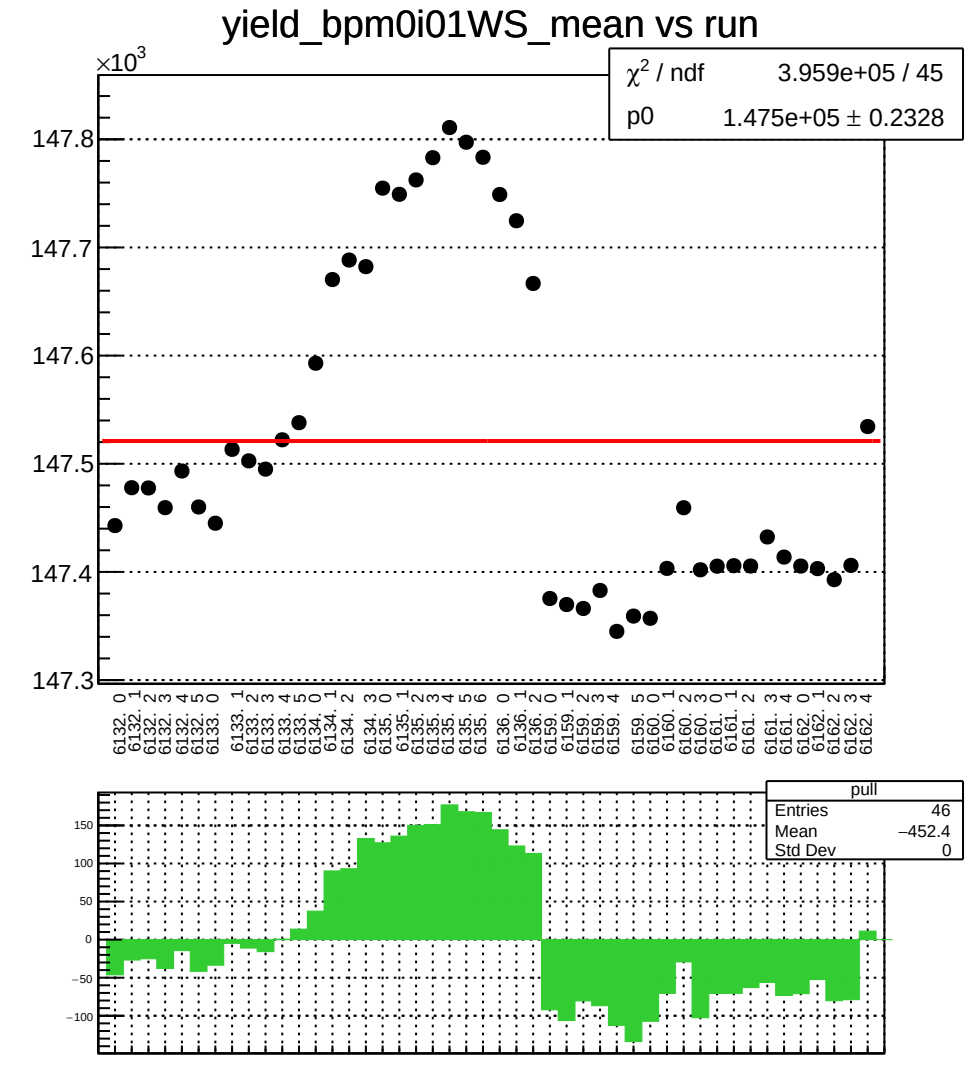

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

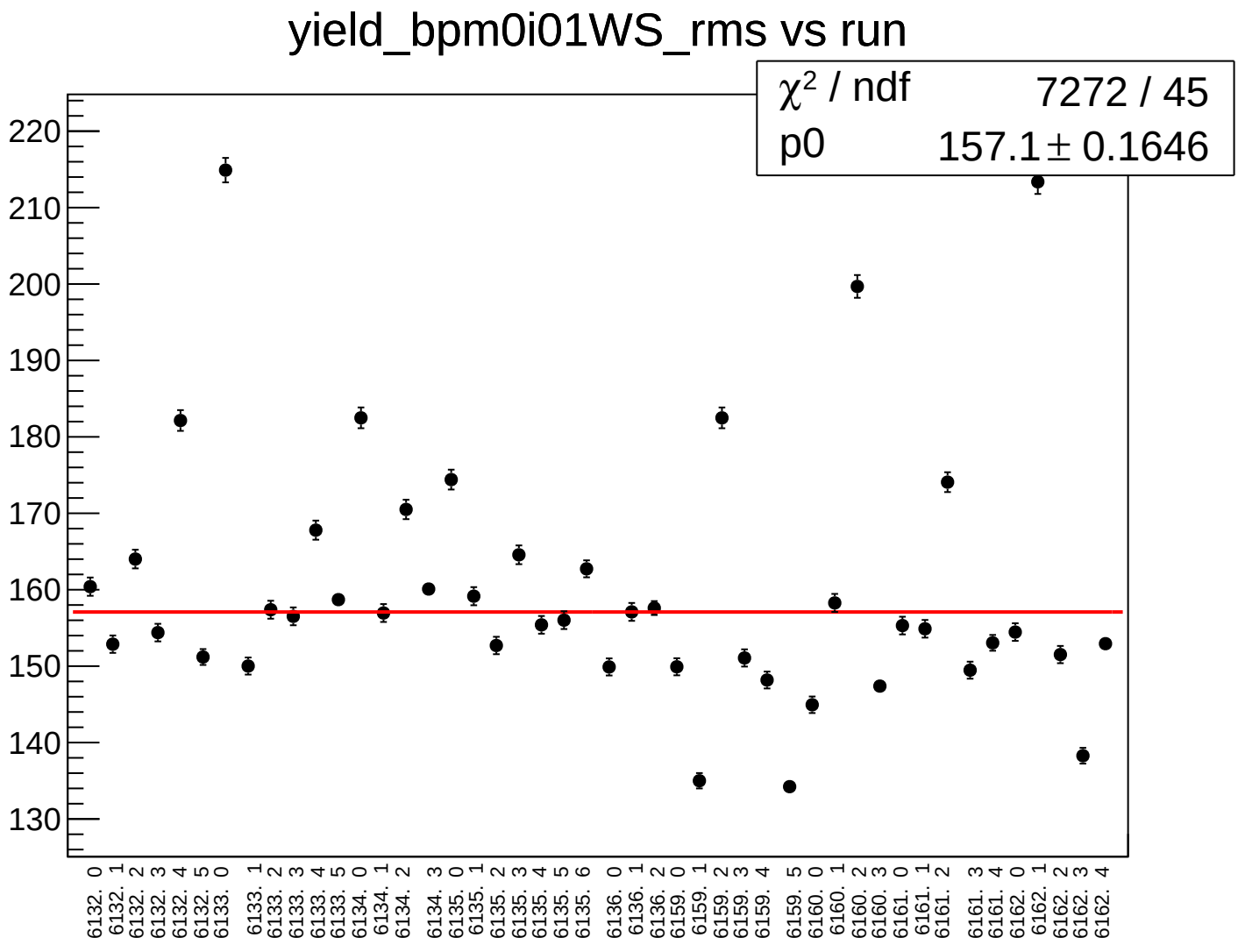

yield_bpm2i01WS_rms vs run
χ² / ndf 7588 / 45
p0 146.3 ± 0.1533
220
200
180
160
140
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

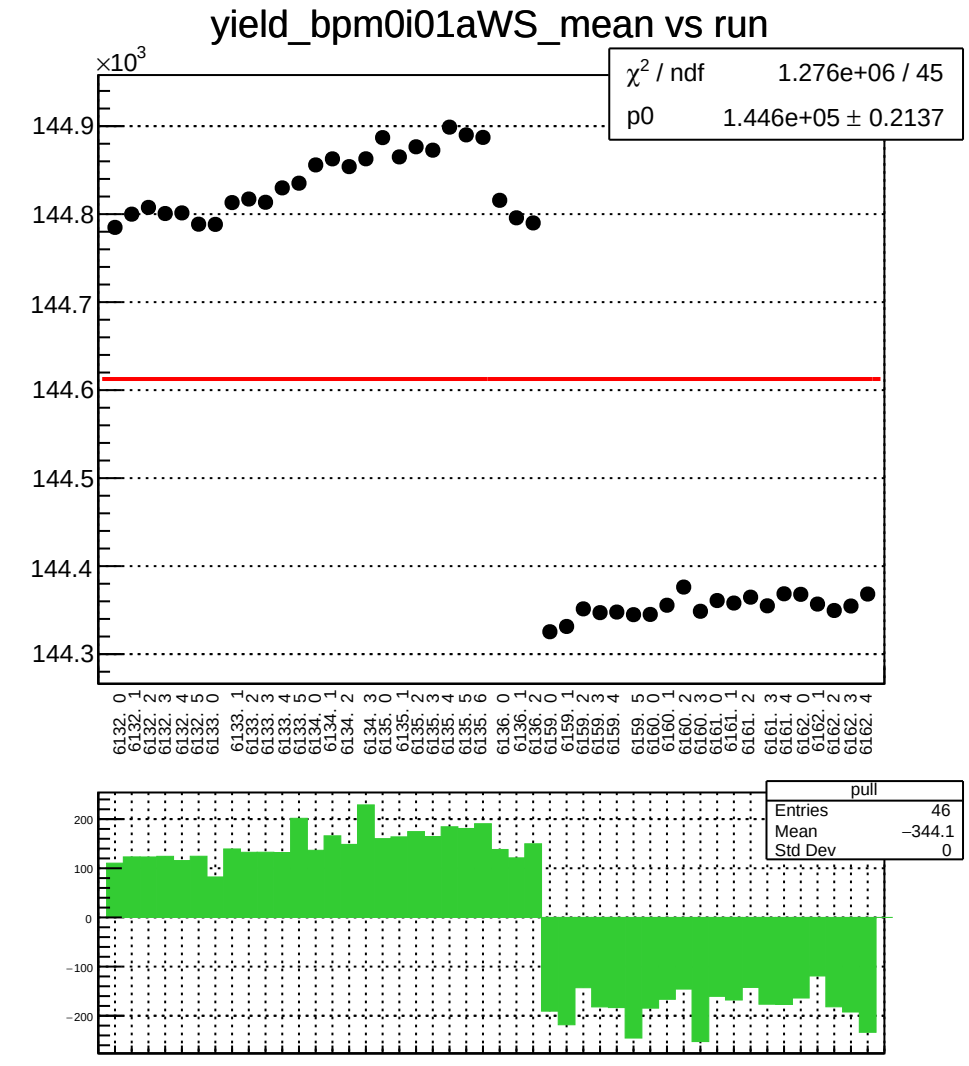

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 2.104e+06 / 45
p0 1.546e+05 ± 0.2469
155.2
155
154.8
154.6
154.4
154.2
154
153.8
153.6
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −122.5
Std Dev 0
400
200
0
−200
−400
−600

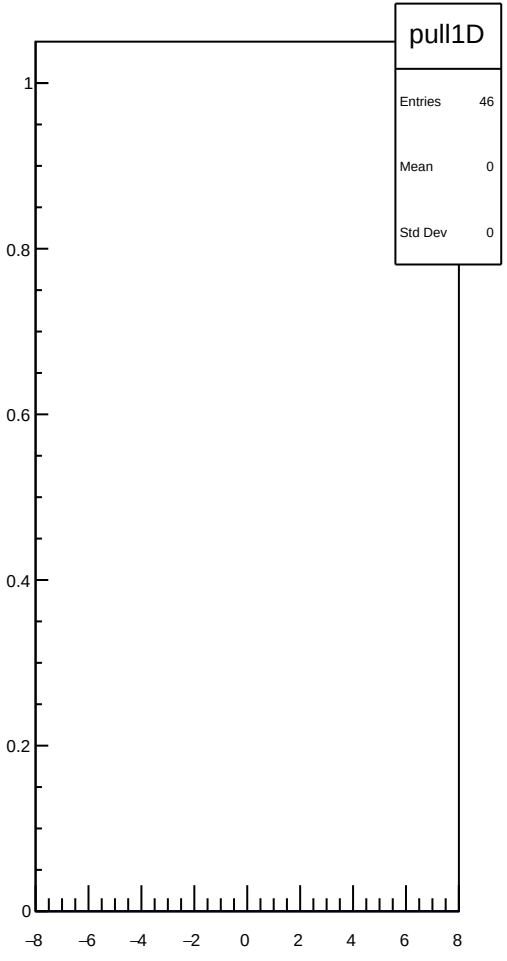

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

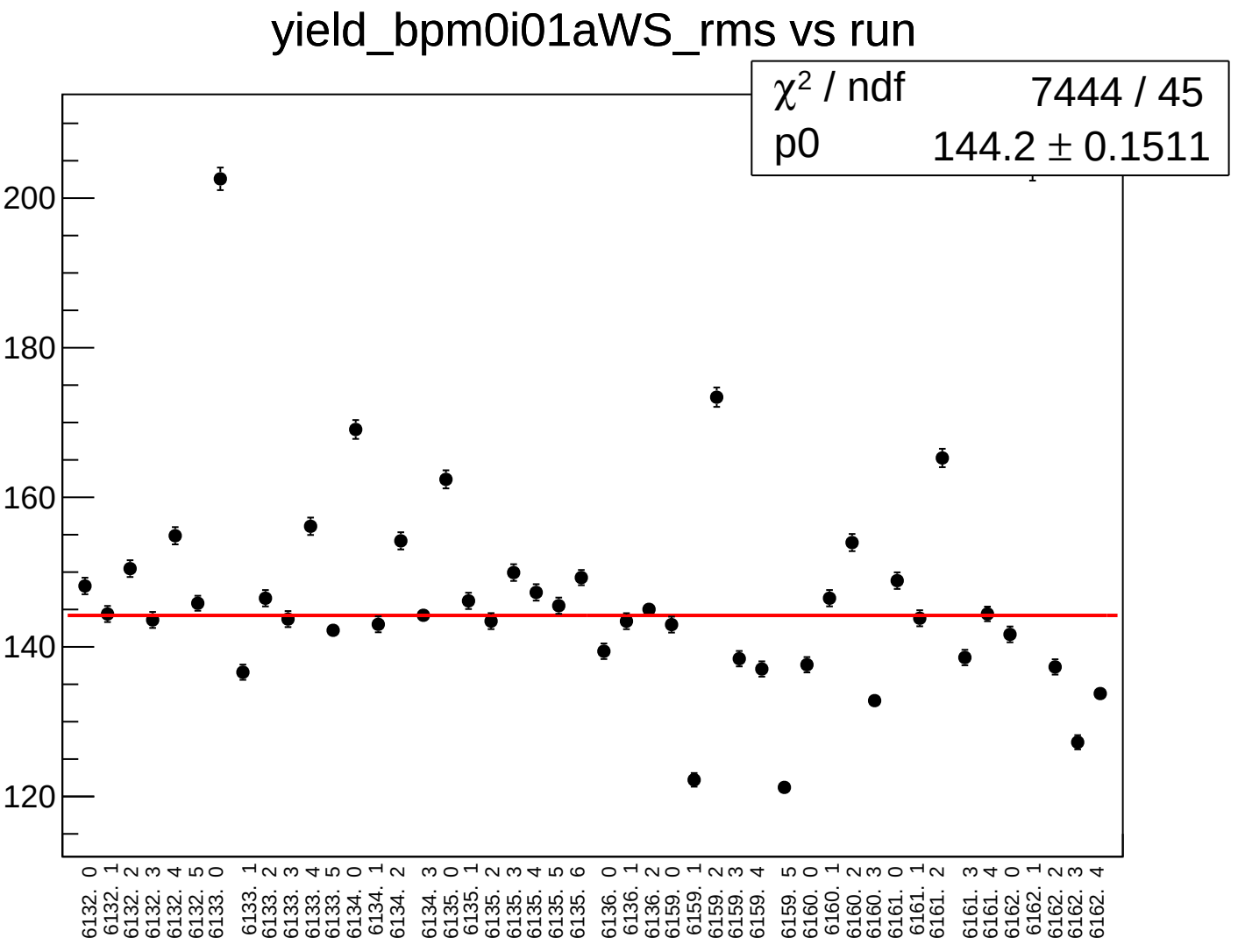

yield_bpm0i07WS_rms vs run
χ² / ndf 1.284e+04 / 45
p0 166.1 ± 0.1745
280
260
240
220
200
180
160
140
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

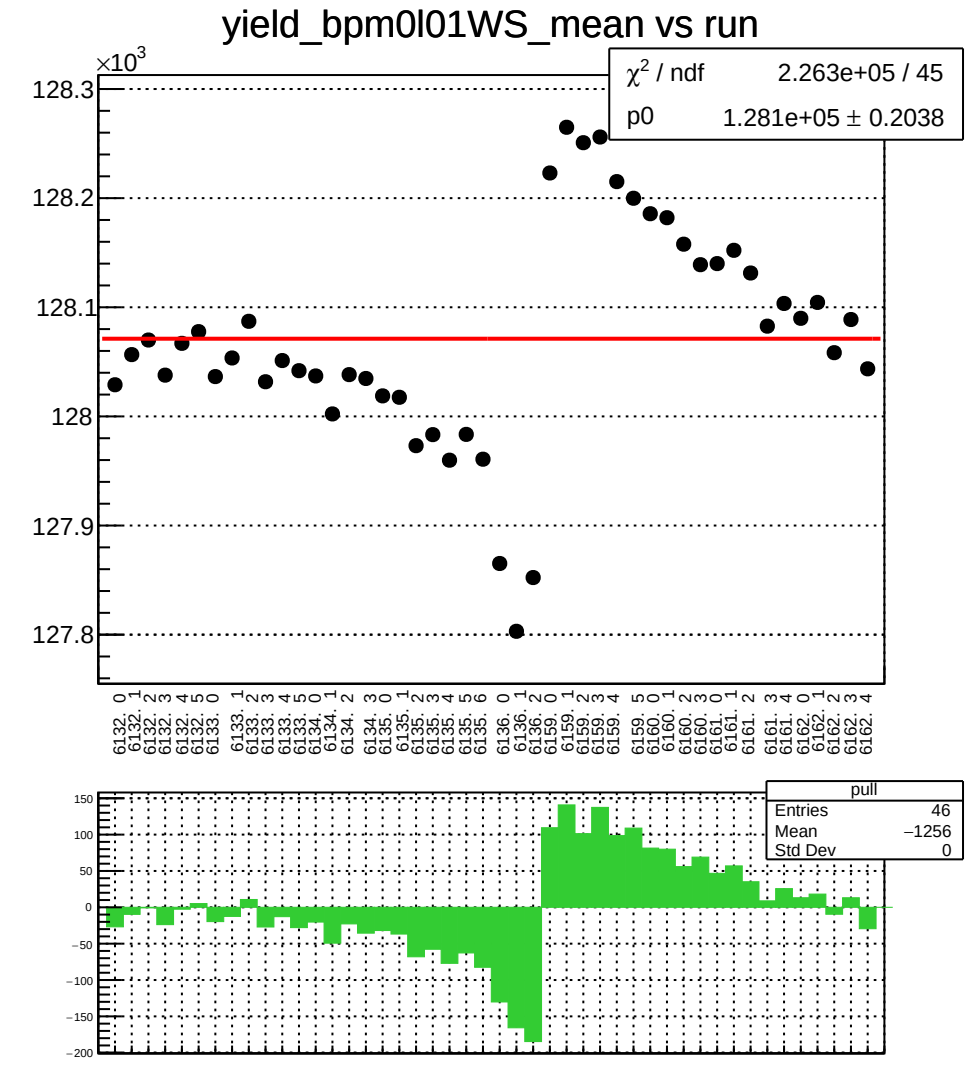

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 3.959e+05 / 45
p0 1.475e+05 ± 0.2328
147.8
147.7
147.6
147.5
147.4
147.3
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −452.4
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 46
Mean −2.116
Std Dev 2.761
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

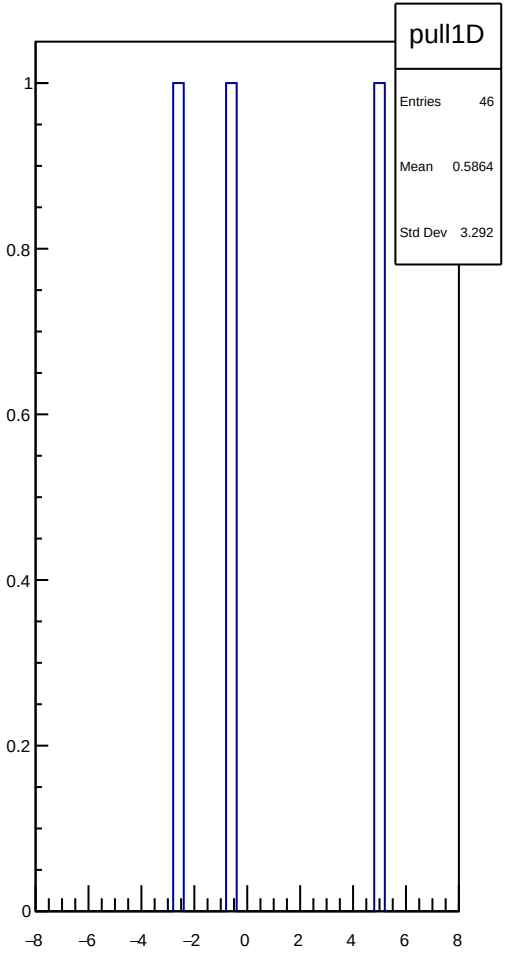

yield_bpm0i01WS_rms vs run
χ² / ndf 7272 / 45
p0 157.1 ± 0.1646
220
210
200
190
180
170
160
150
140
130
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

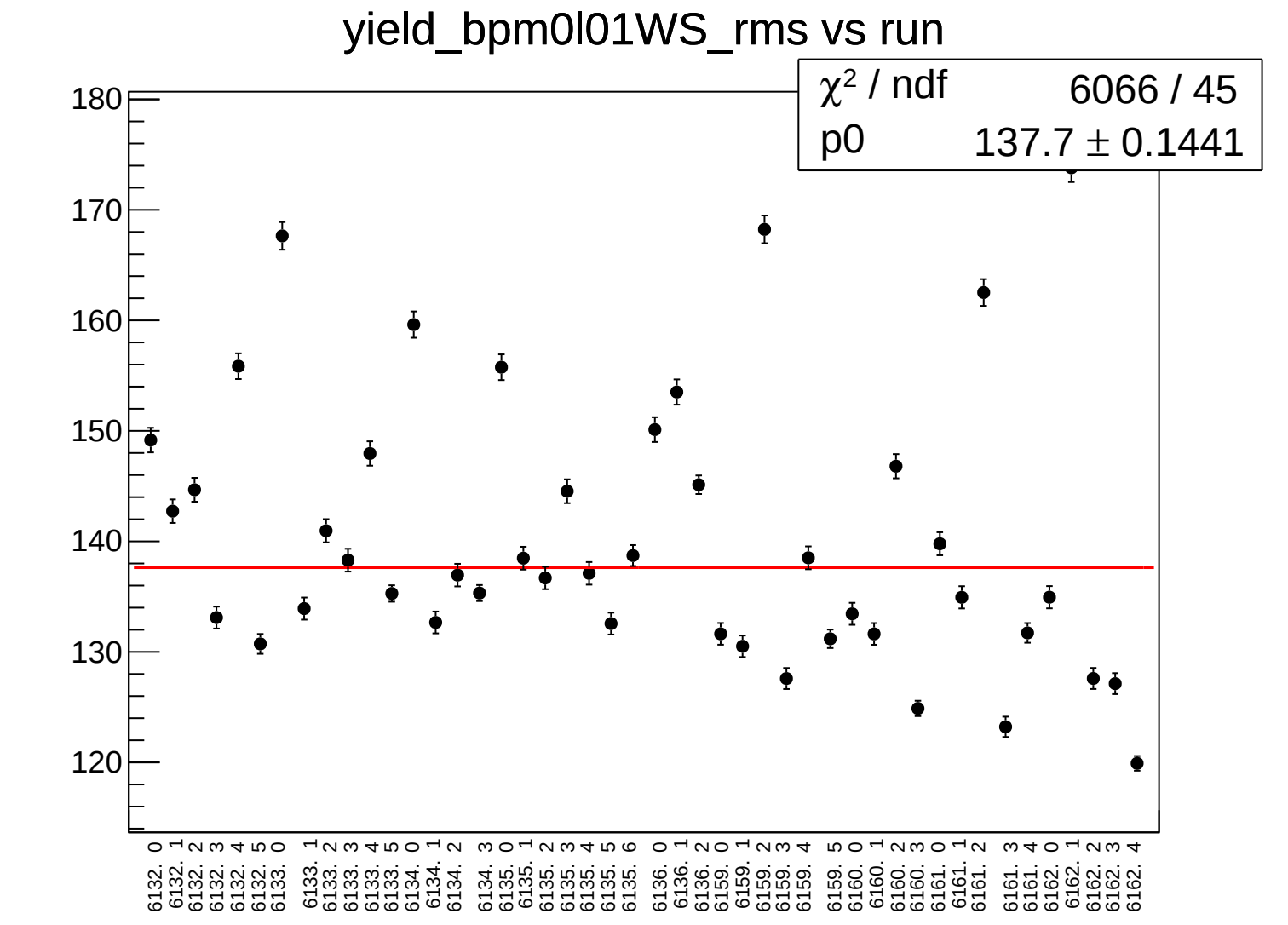

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 1.276e+06 / 45
p0 1.446e+05 ± 0.2137
144.9
144.8
144.7
144.6
144.5
144.4
144.3
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −344.1
Std Dev 0
200
100
0
−100
−200

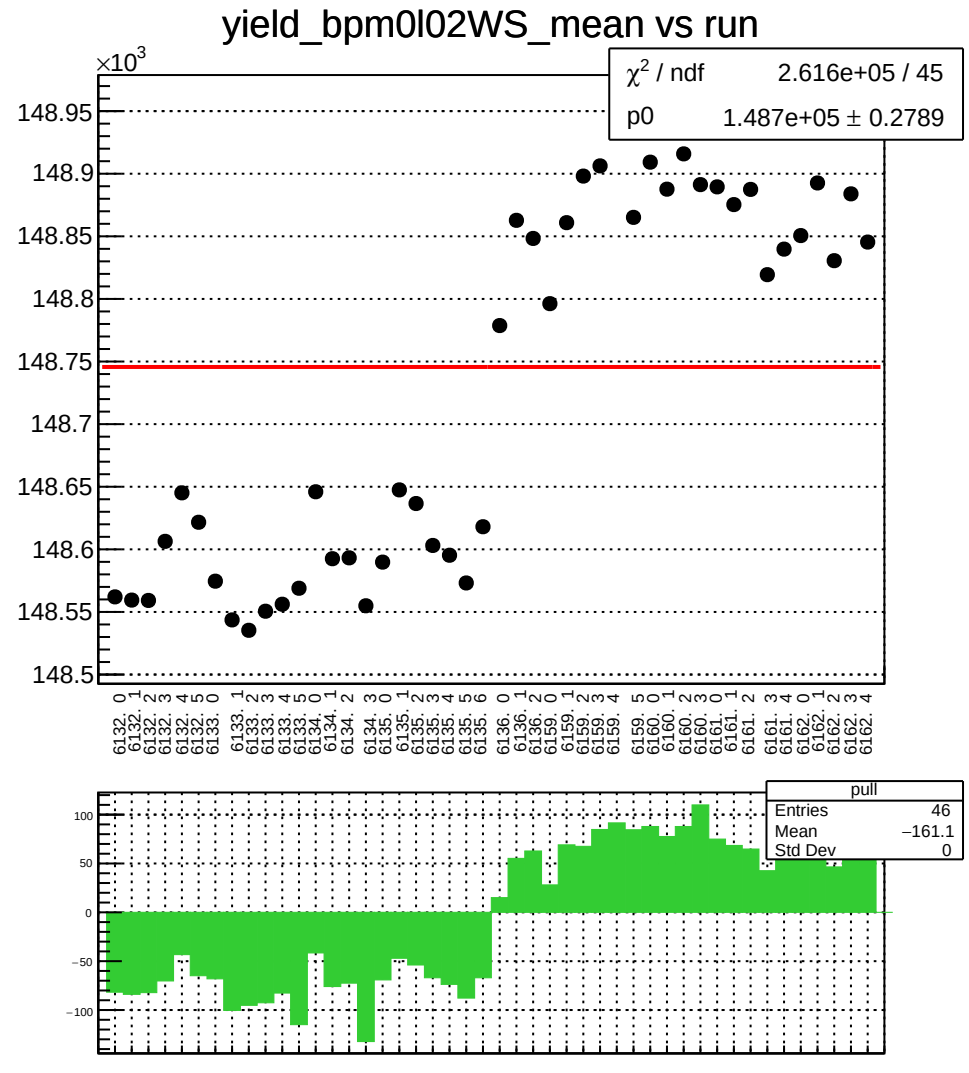

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

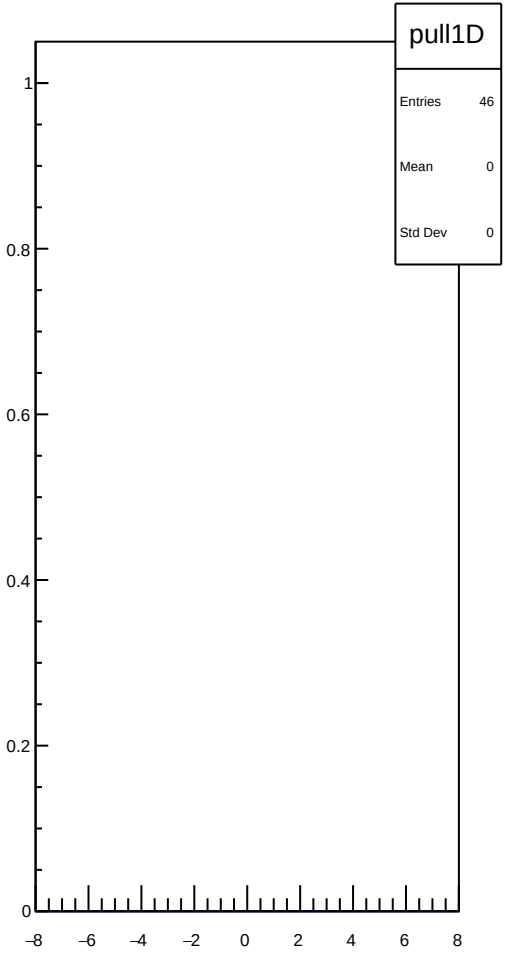

yield_bpm0i01aWS_rms vs run
χ² / ndf 7444 / 45
p0 144.2 ± 0.1511
200
180
160
140
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

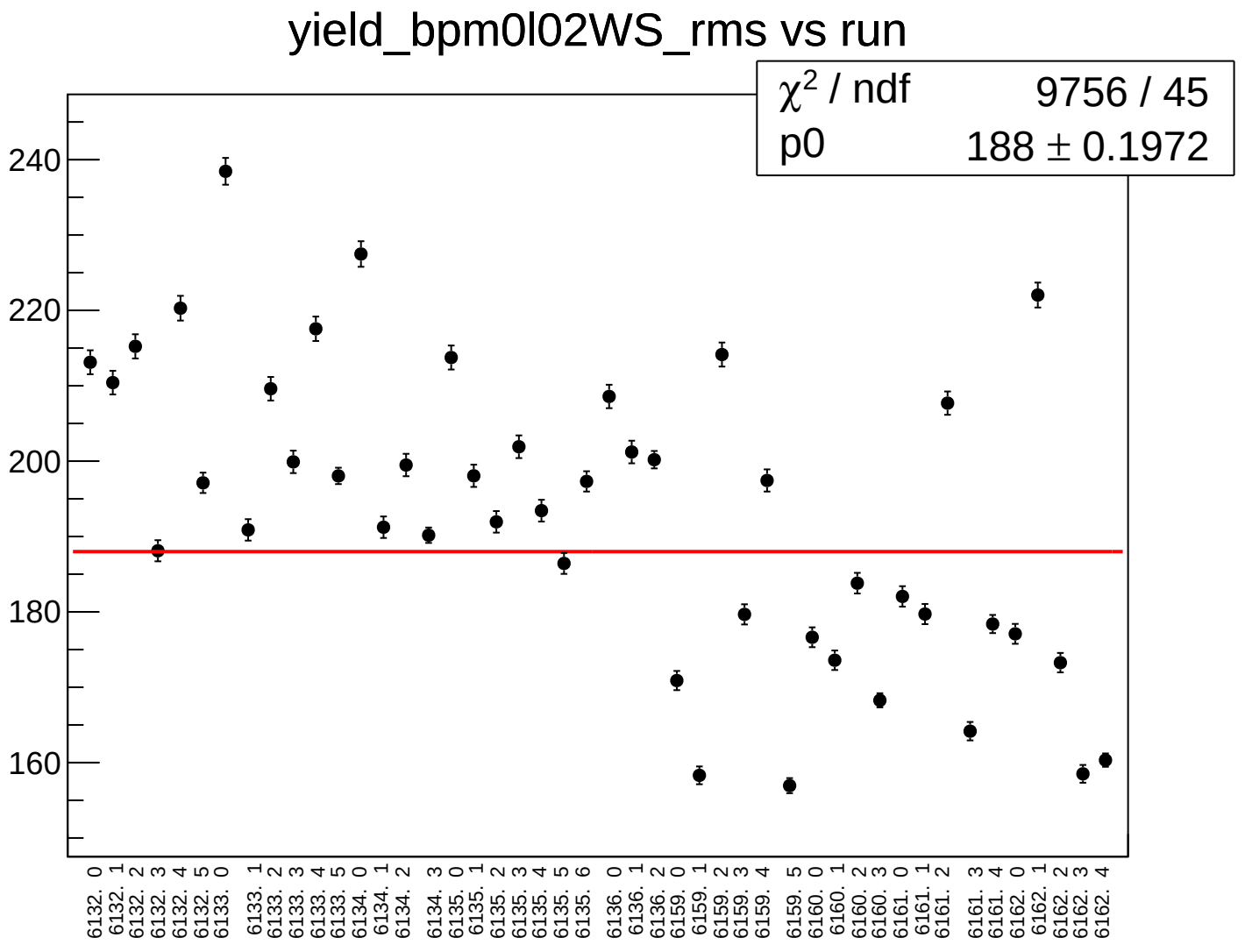

yield_bpm0l01WS_mean vs run
×10^3
χ^2 / ndf 2.263e+05 / 45
p0 1.281e+05 ± 0.2038
128.3
128.2
128.1
128
127.9
127.8
pull
Entries 46
Mean −1256
Std Dev 0
150
100
50
0
−50
−100
−150
−200

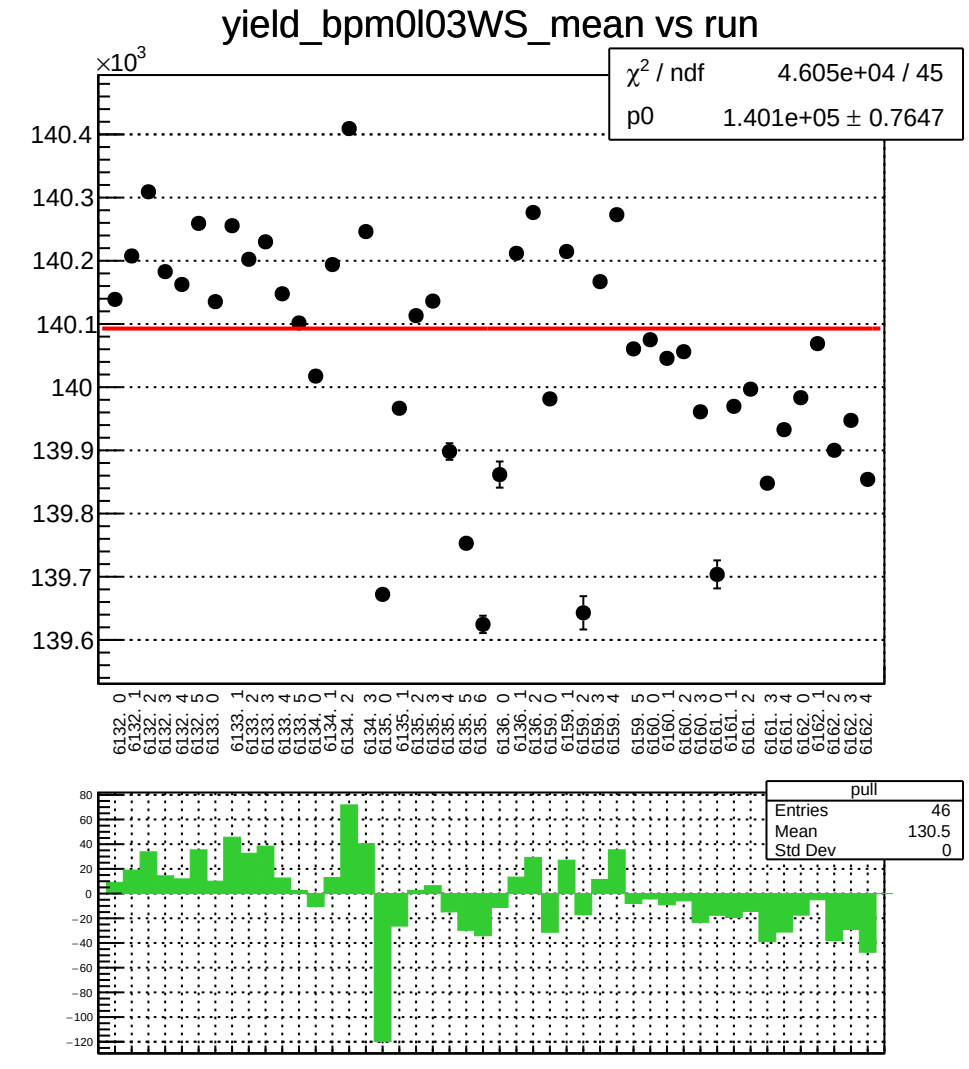

pull1D
Entries 46
Mean 0.5864
Std Dev 3.292
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

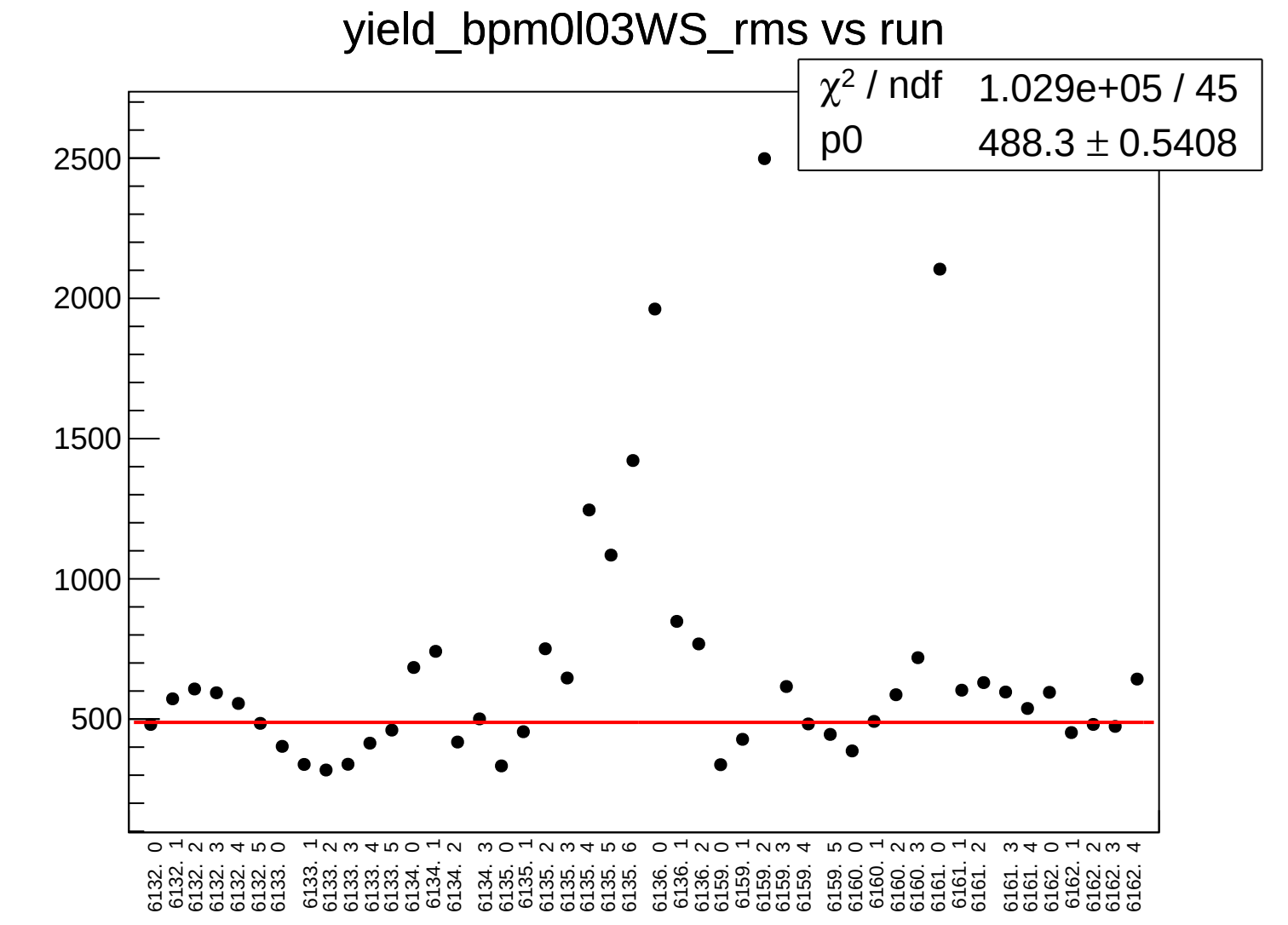

yield_bpm0l01WS_rms vs run
χ² / ndf 6066 / 45
p0 137.7 ± 0.1441
180
170
160
150
140
130
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

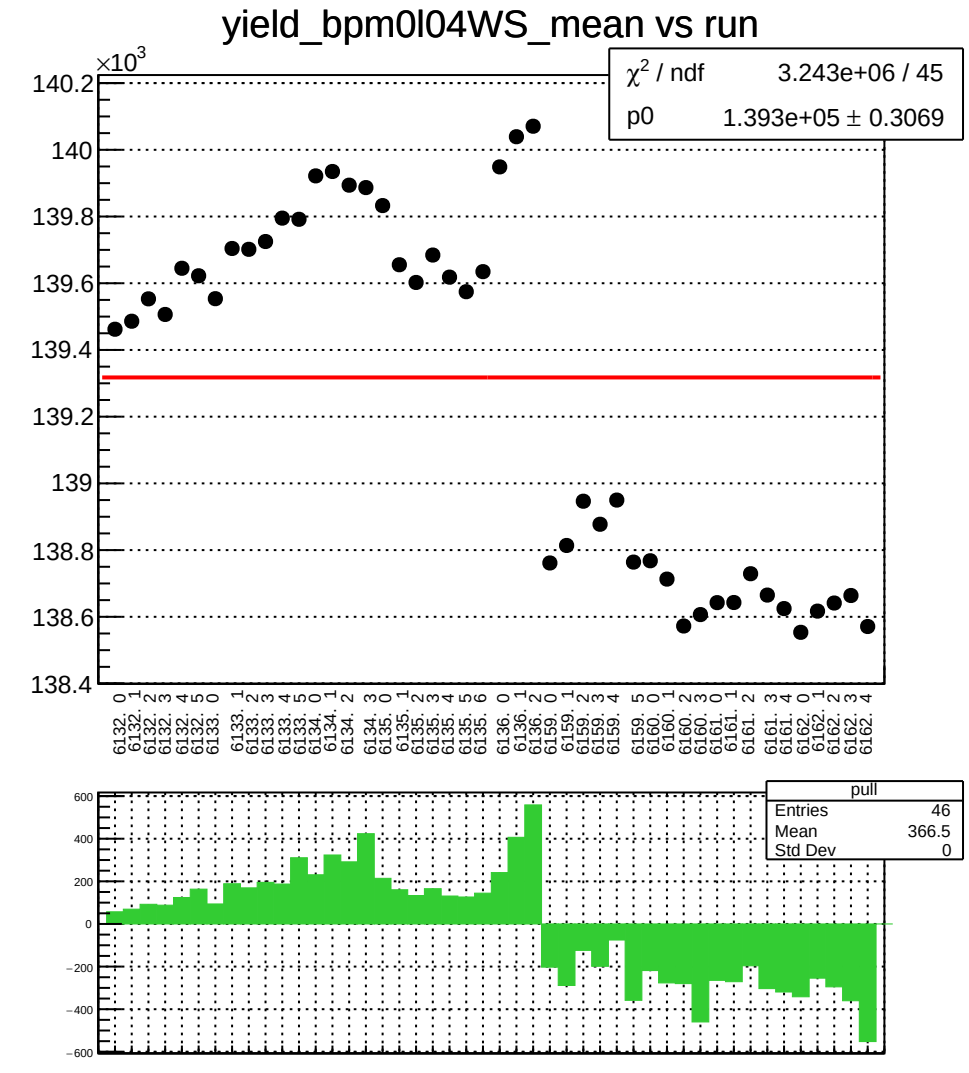

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 2.616e+05 / 45
p0 1.487e+05 ± 0.2789
148.95
148.9
148.85
148.8
148.75
148.7
148.65
148.6
148.55
148.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −161.1
Std Dev 0
100
50
0
−50
−100

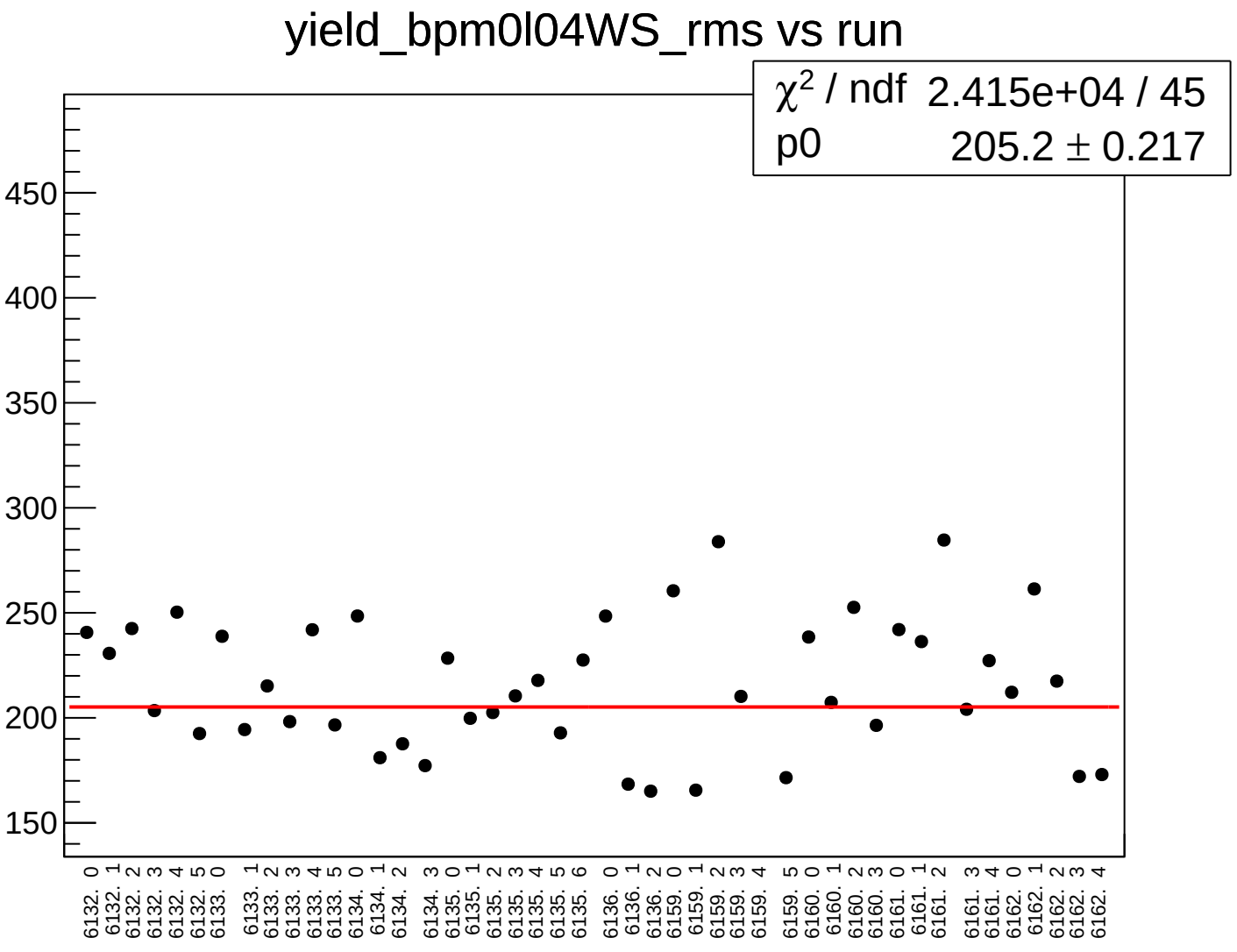

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

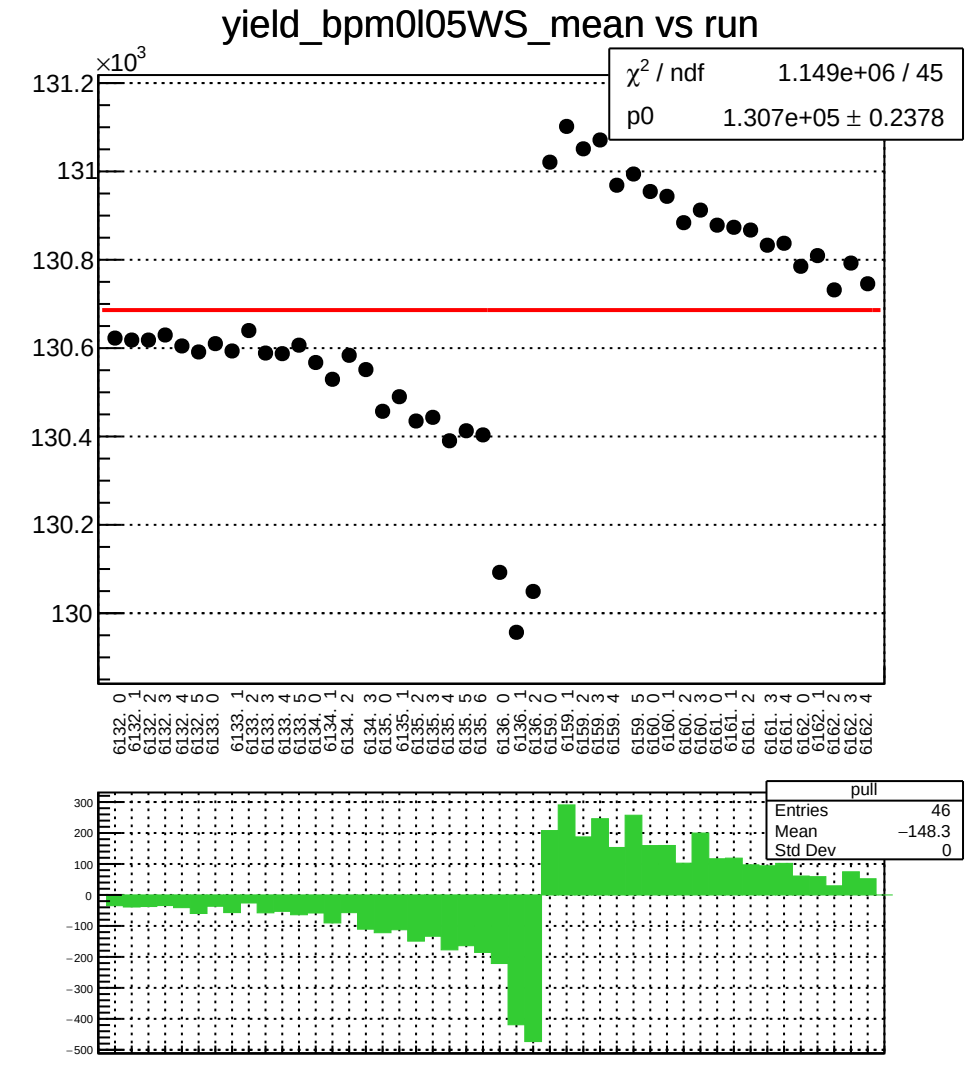

yield_bpm0l02WS_rms vs run
χ² / ndf 9756 / 45
p0 188 ± 0.1972
240
220
200
180
160
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

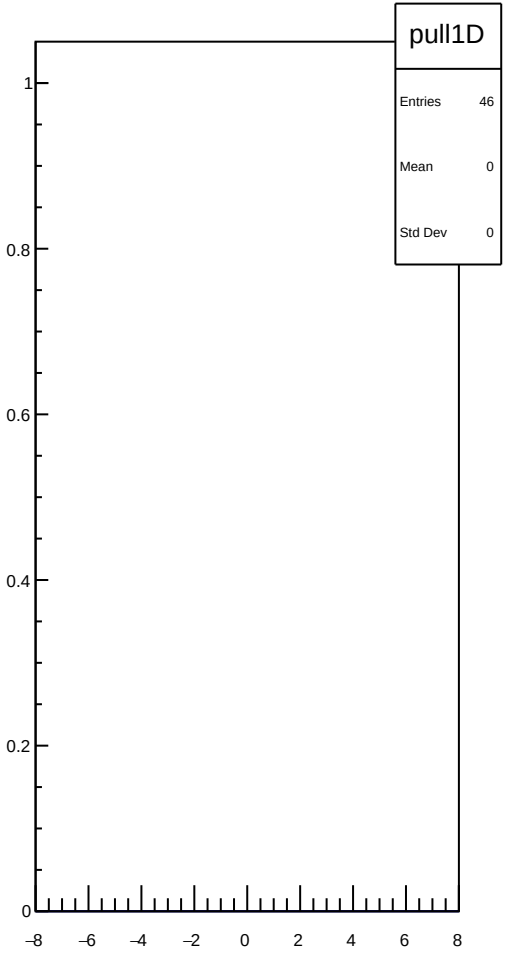

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 4.605e+04 / 45
p0 1.401e+05 ± 0.7647
140.4
140.3
140.2
140.1
140
139.9
139.8
139.7
139.6
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 130.5
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120
pull1D
Entries 46
Mean −0.6422
Std Dev 4.654
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

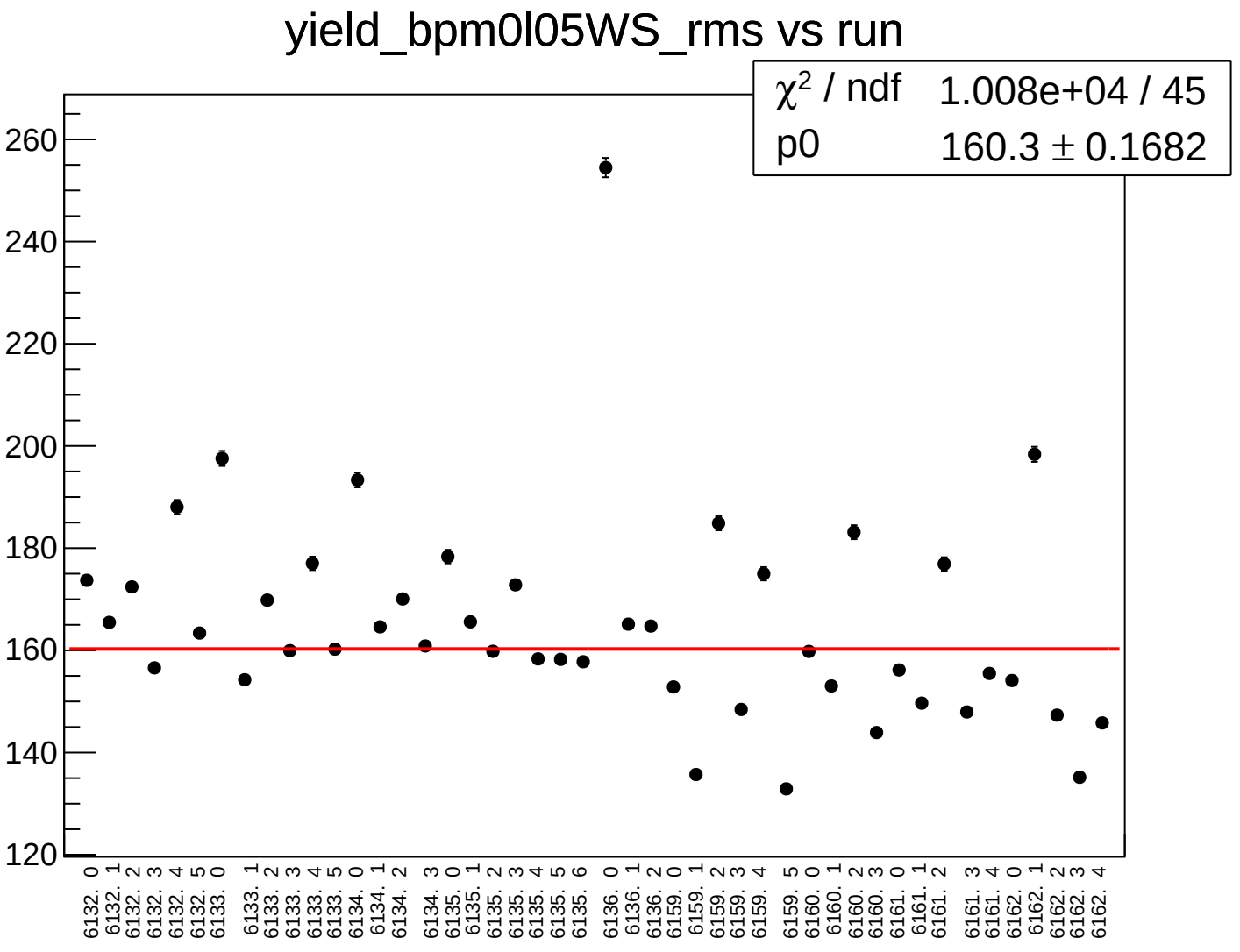

yield_bpm0l03WS_rms vs run
χ² / ndf 1.029e+05 / 45
p0 488.3 ± 0.5408
2500
2000
1500
1000
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 3.243e+06 / 45
p0 1.393e+05 ± 0.3069
140.2
140
139.8
139.6
139.4
139.2
139
138.8
138.6
138.4
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 366.5
Std Dev 0
600
400
200
0
−200
−400
−600
pull1D
Entries 46
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_bpm0l04WS_rms vs run
χ² / ndf 2.415e+04 / 45
p0 205.2 ± 0.217
450
400
350
300
250
200
150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 1.149e+06 / 45
p0 1.307e+05 ± 0.2378
131.2
131
130.8
130.6
130.4
130.2
130
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −148.3
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500


pull1D
Entries 46
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_bpm0l05WS_rms vs run
χ² / ndf 1.008e+04 / 45
p0 160.3 ± 0.1682
260
240
220
200
180
160
140
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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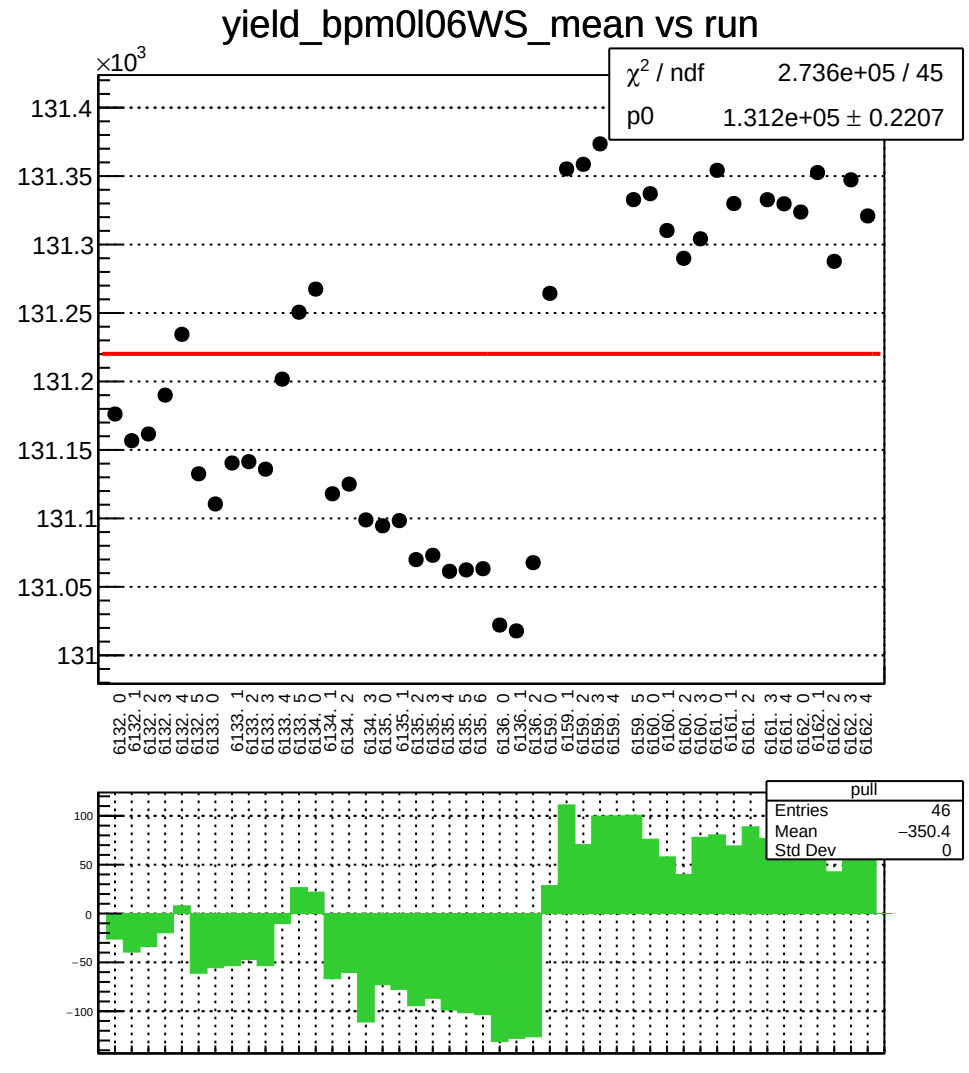
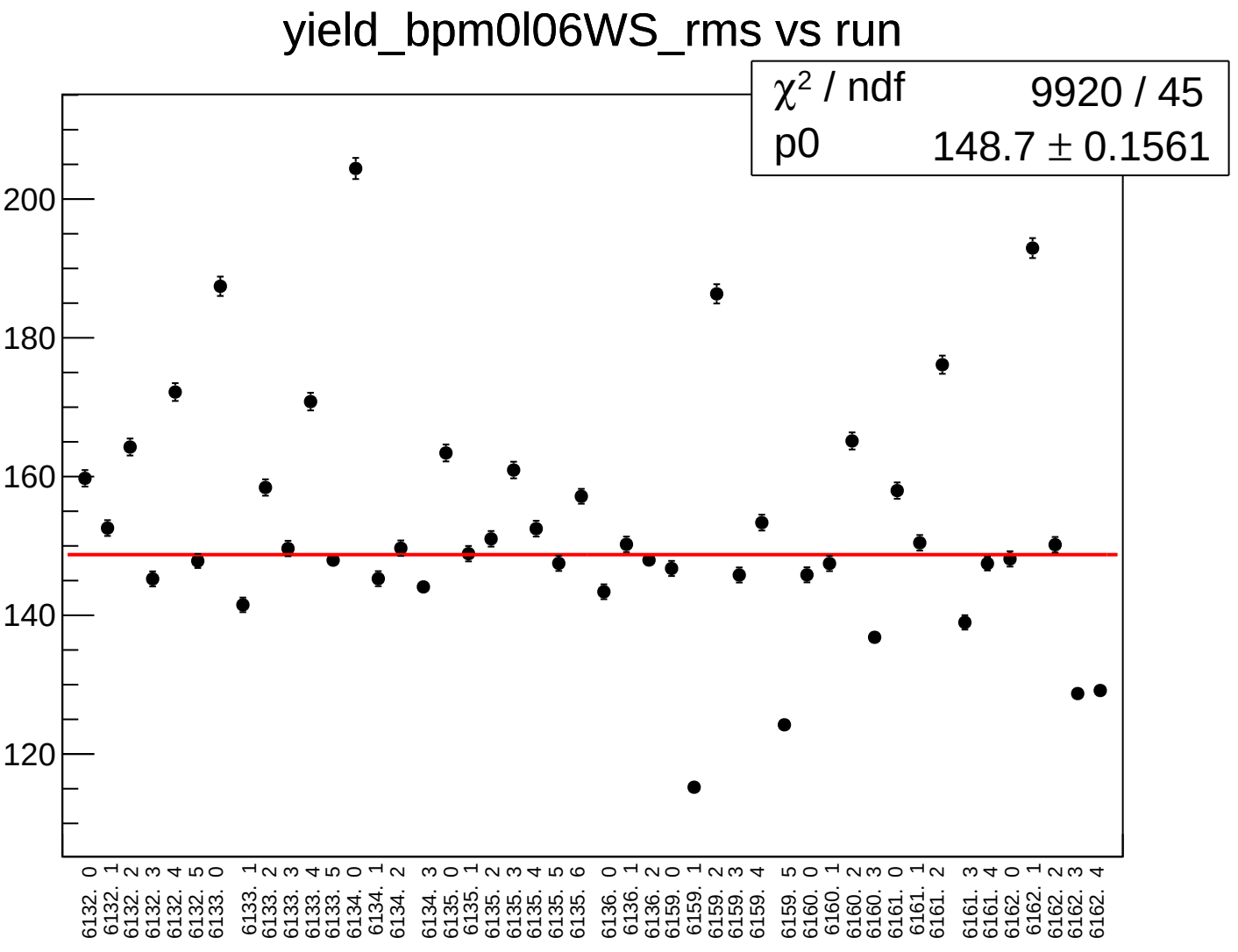
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 2.736e+05 / 45
p0 1.312e+05 ± 0.2207
131.4
131.35
131.3
131.25
131.2
131.15
131.1
131.05
131
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −350.4
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 46
Mean 7.847
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l06WS_rms vs run
χ² / ndf 9920 / 45
p0 148.7 ± 0.1561
200
180
160
140
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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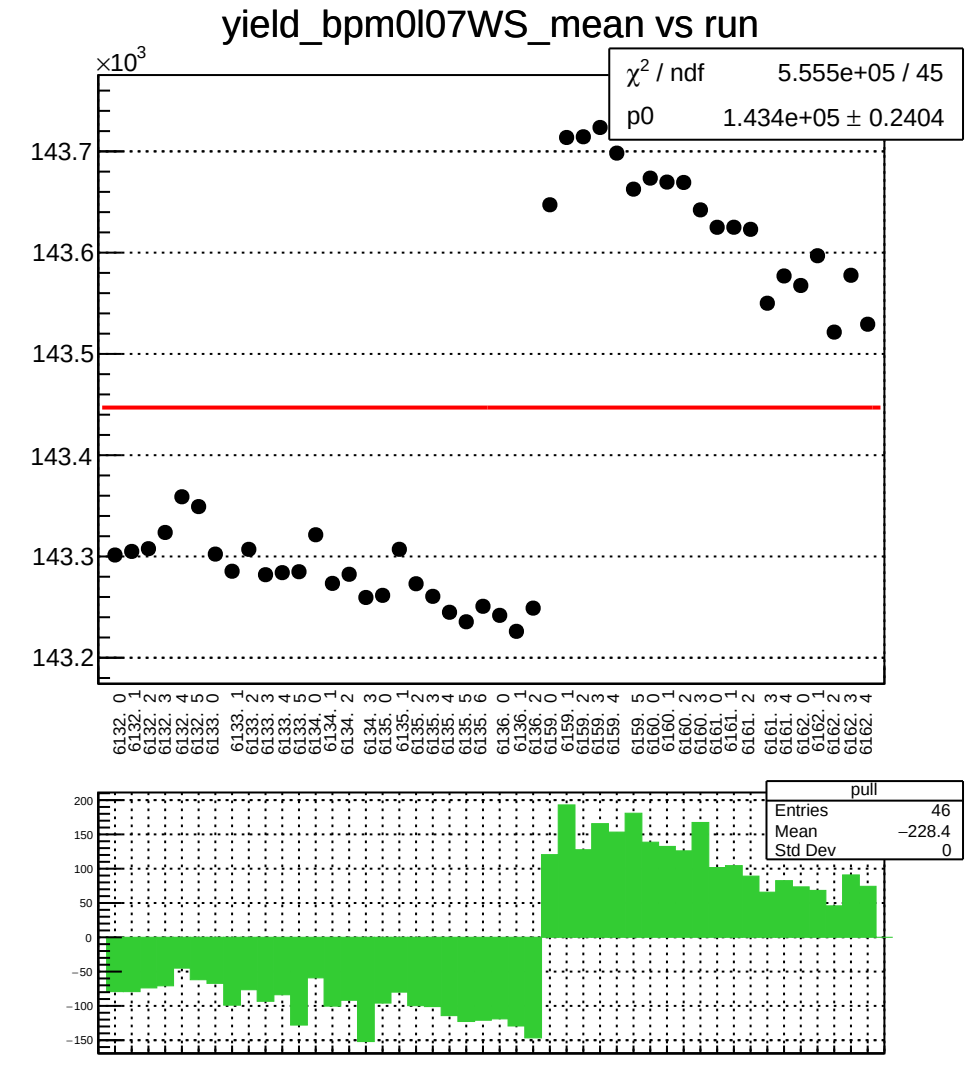
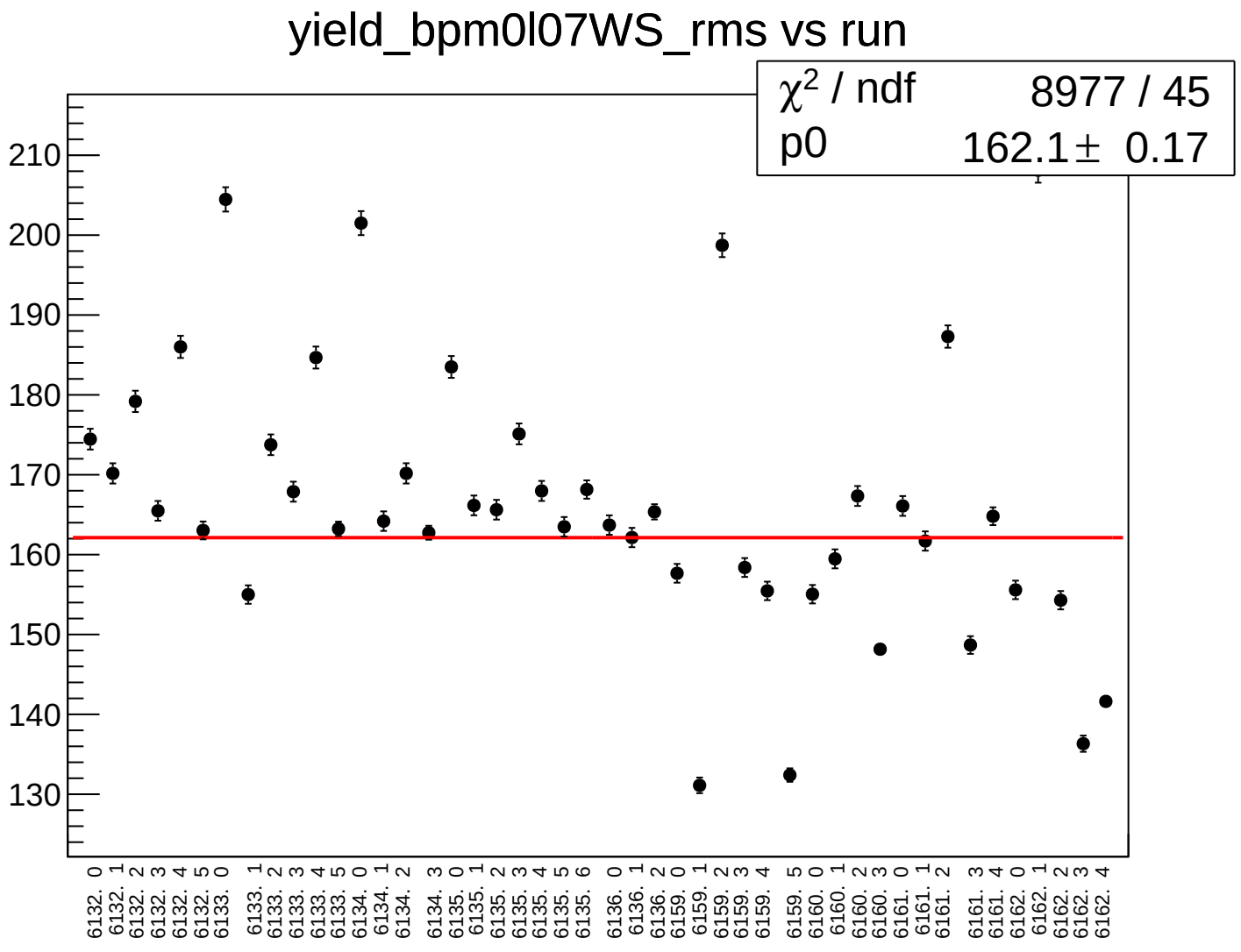
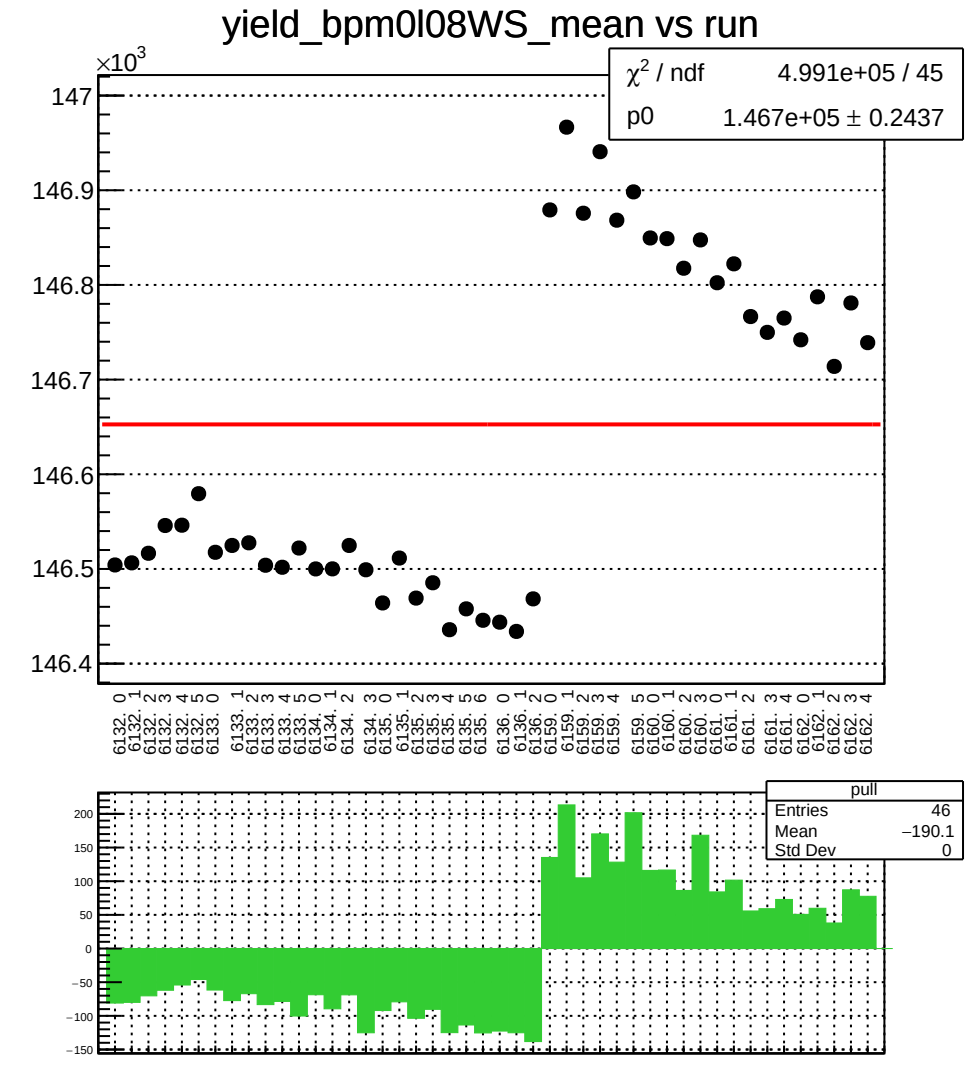
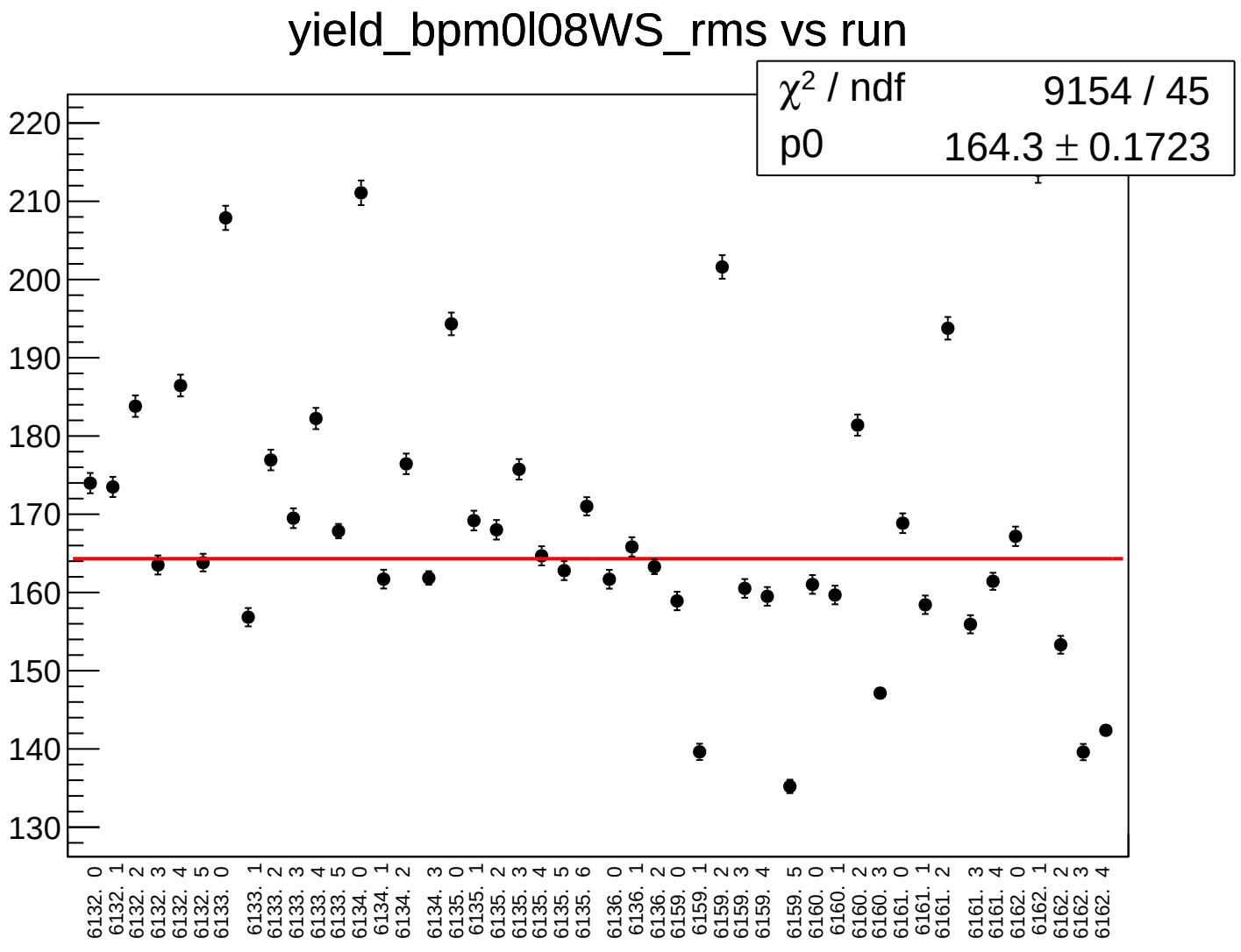
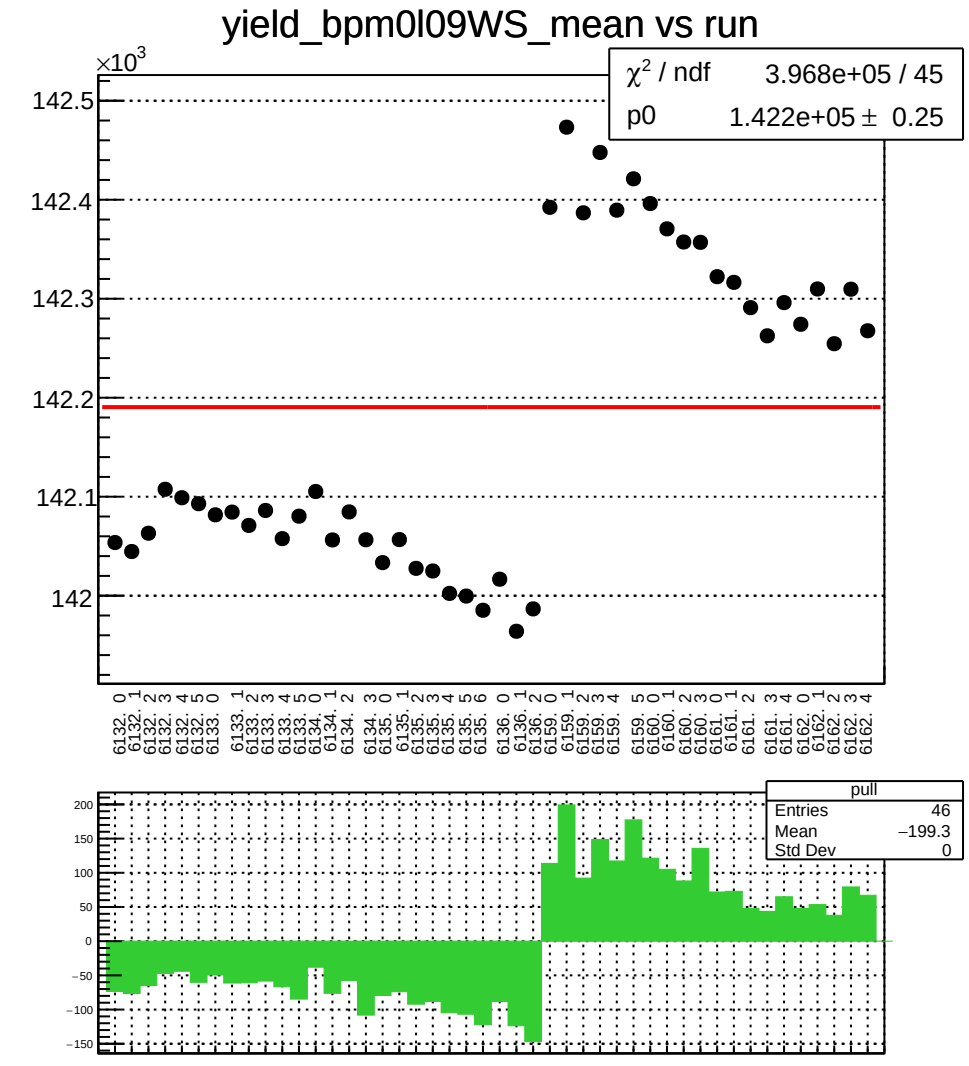
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

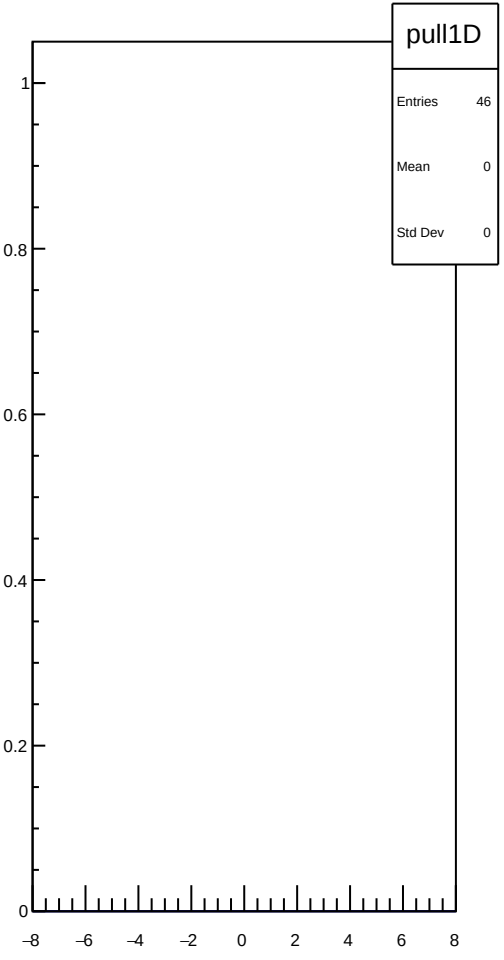

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 5.555e+05 / 45
p0 1.434e+05 ± 0.2404
143.7
143.6
143.5
143.4
143.3
143.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −228.4
Std Dev 0
200
150
100
50
0
−50
−100
−150
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

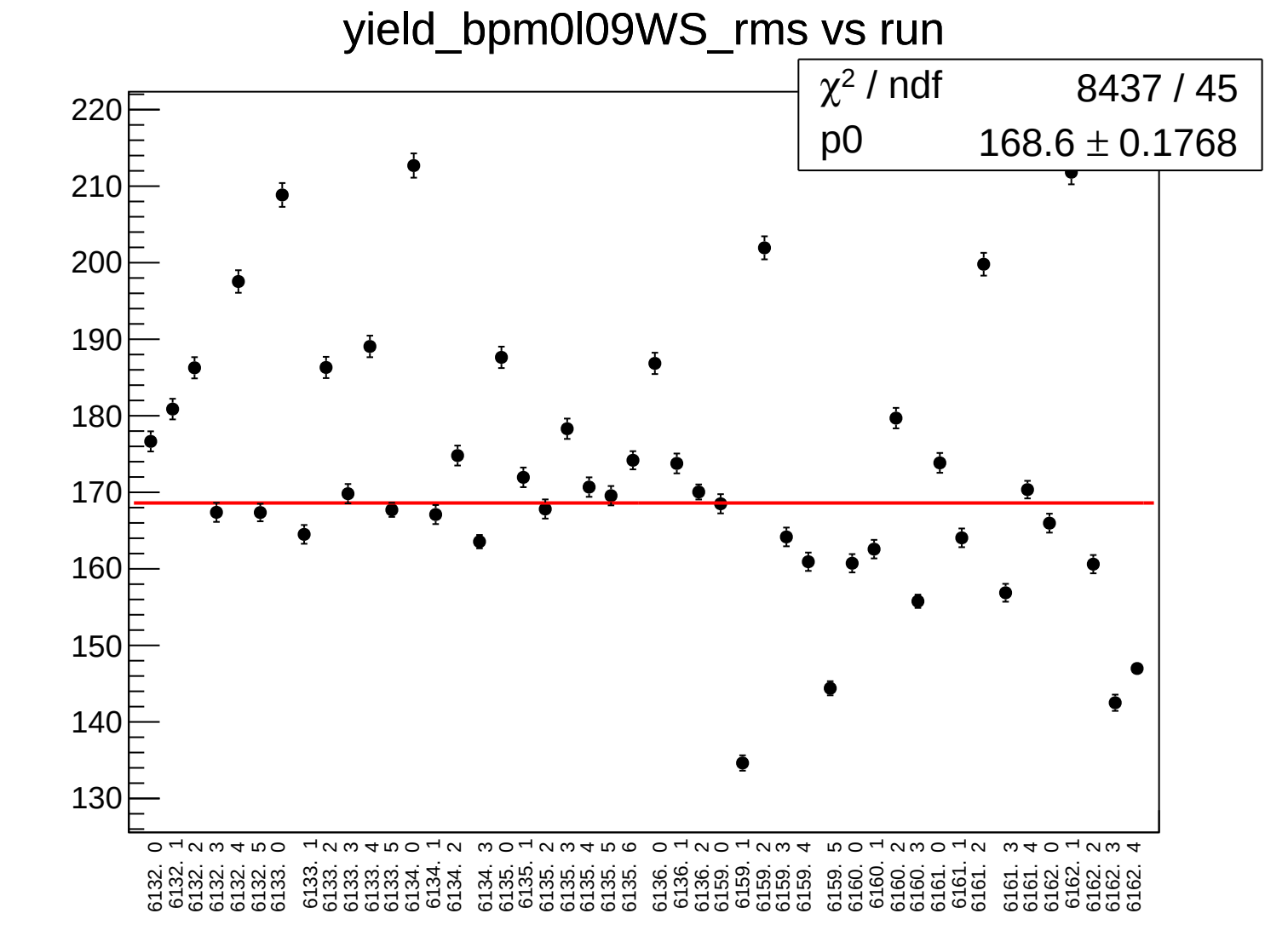

yield_bpm0l07WS_rms vs run
χ² / ndf 8977 / 45
p0 162.1 ± 0.17
210
200
190
180
170
160
150
140
130
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

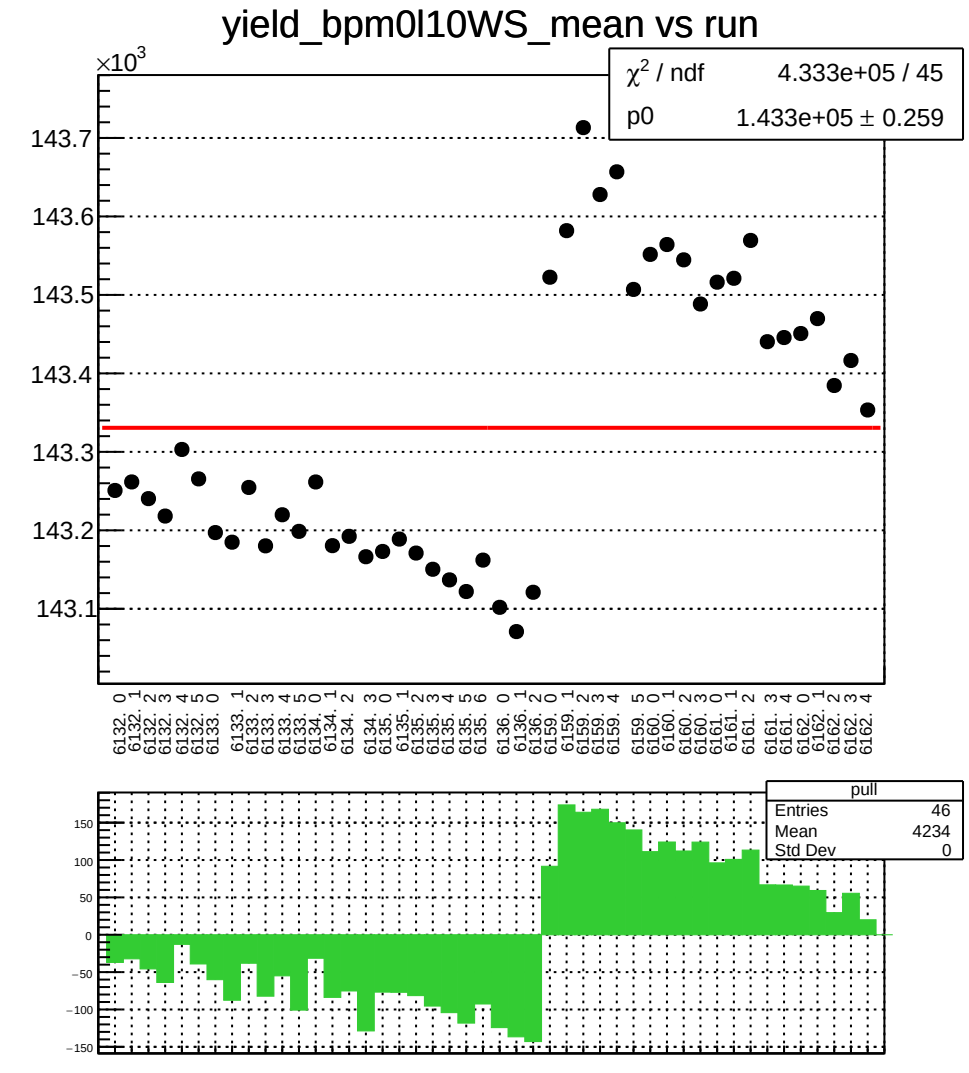

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 4.991e+05 / 45
p0 1.467e+05 ± 0.2437
147
146.9
146.8
146.7
146.6
146.5
146.4
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −190.1
Std Dev 0
200
150
100
50
0
−50
−100
−150
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

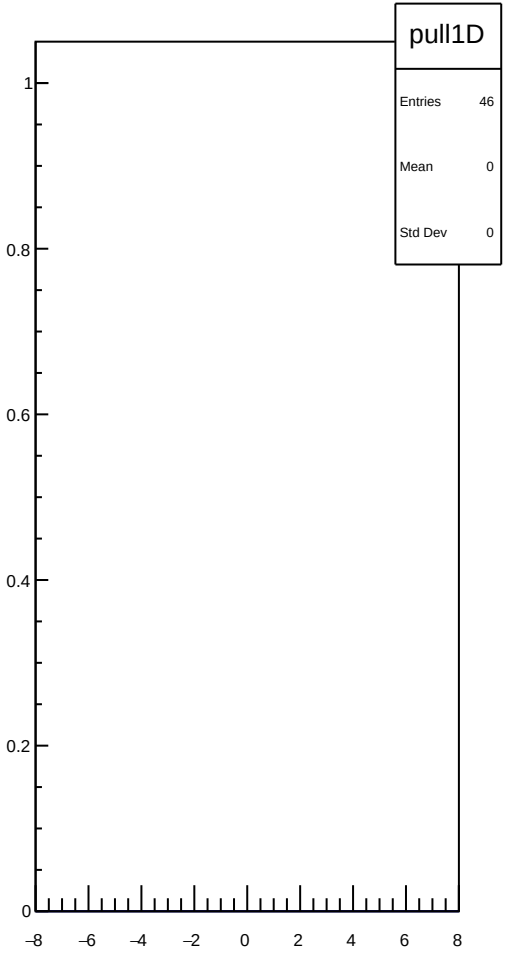

yield_bpm0l08WS_rms vs run
χ² / ndf 9154 / 45
p0 164.3 ± 0.1723
220
210
200
190
180
170
160
150
140
130
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

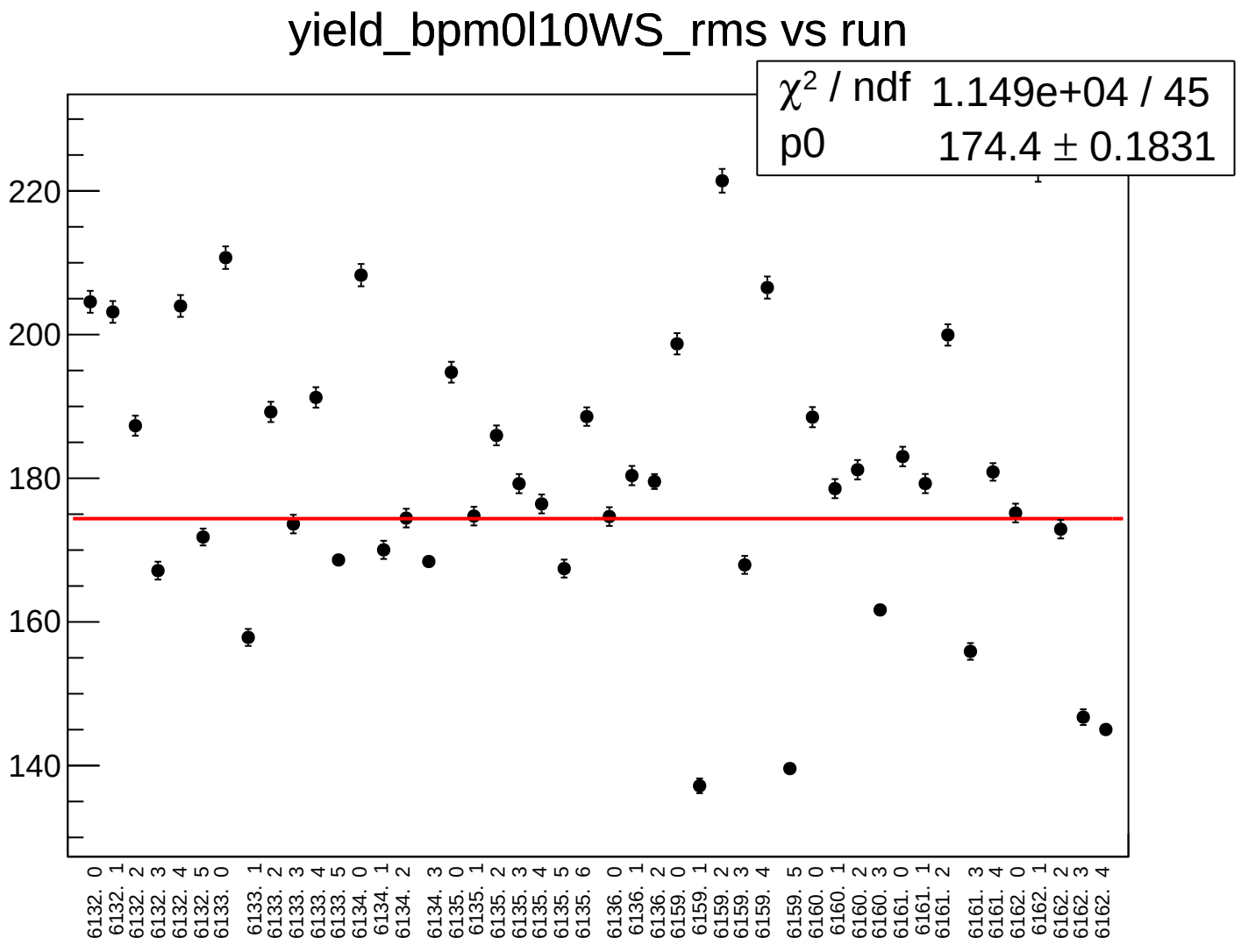

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 3.968e+05 / 45
p0 1.422e+05 ± 0.25
142.5
142.4
142.3
142.2
142.1
142
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean –199.3
Std Dev 0
200
150
100
50
0
–50
–100
–150

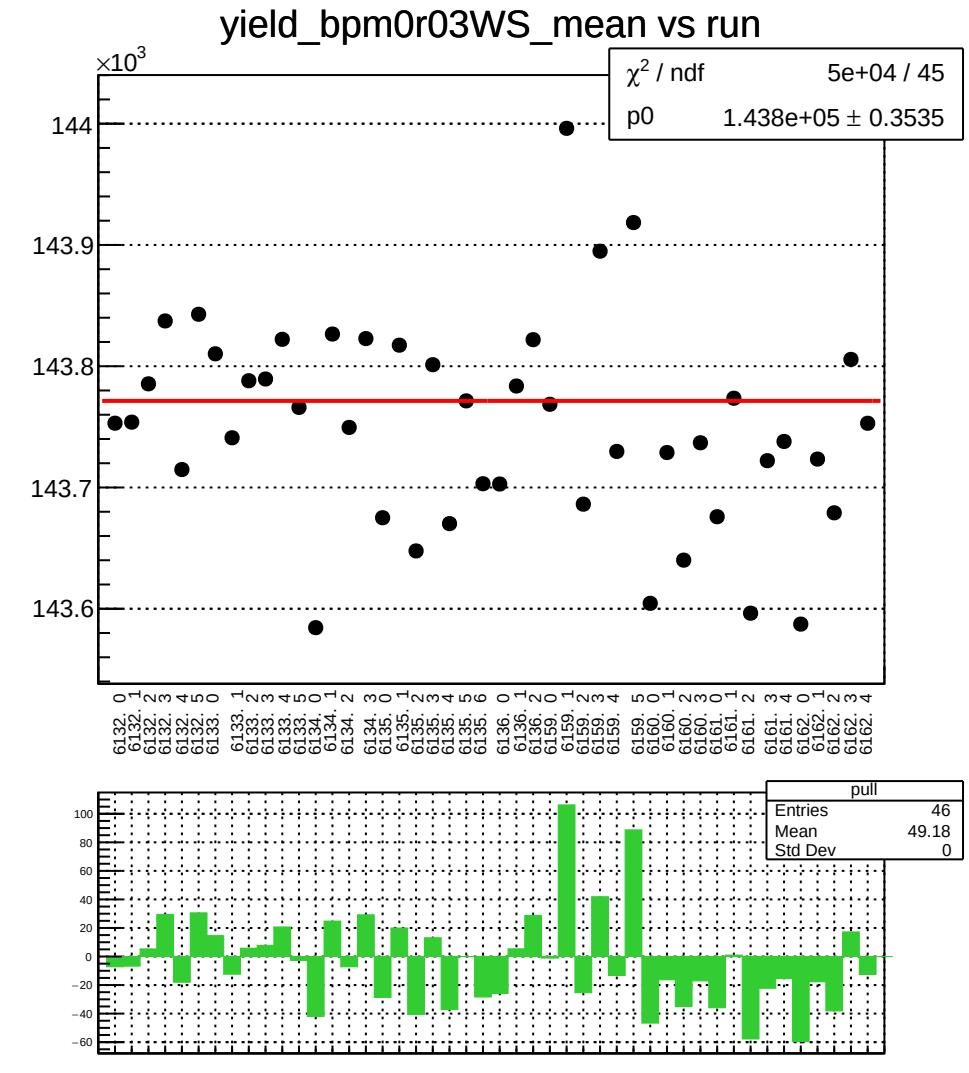

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

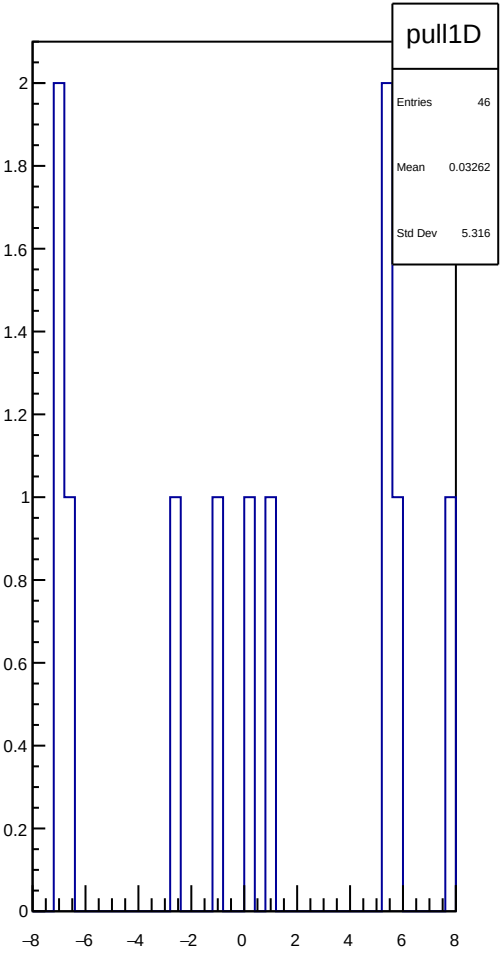

yield_bpm0l09WS_rms vs run
χ² / ndf 8437 / 45
p0 168.6 ± 0.1768
220
210
200
190
180
170
160
150
140
130
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

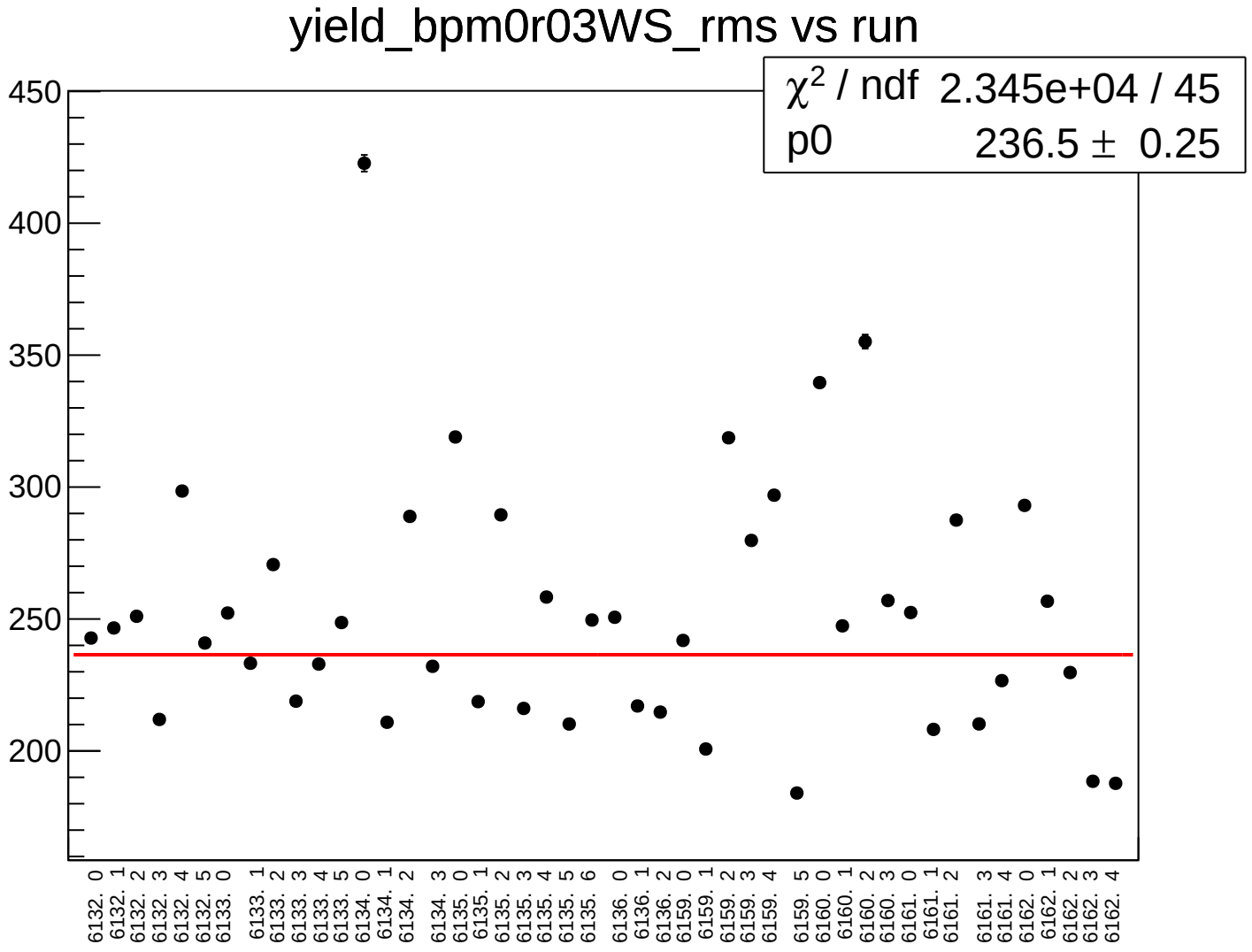

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 4.333e+05 / 45
p0 1.433e+05 ± 0.259
143.7
143.6
143.5
143.4
143.3
143.2
143.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 4234
Std Dev 0
150
100
50
0
−50
−100
−150


pull1D
Entries 46
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_bpm0l10WS_rms vs run
χ² / ndf 1.149e+04 / 45
p0 174.4 ± 0.1831
220
200
180
160
140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 5e+04 / 45
p0 1.438e+05 ± 0.3535
144
143.9
143.8
143.7
143.6
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 49.18
Std Dev 0
100
80
60
40
20
0
−20
−40
−60


pull1D
Entries 46
Mean 0.03262
Std Dev 5.316
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_bpm0r03WS_rms vs run
χ² / ndf 2.345e+04 / 45
p0 236.5 ± 0.25
450
400
350
300
250
200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
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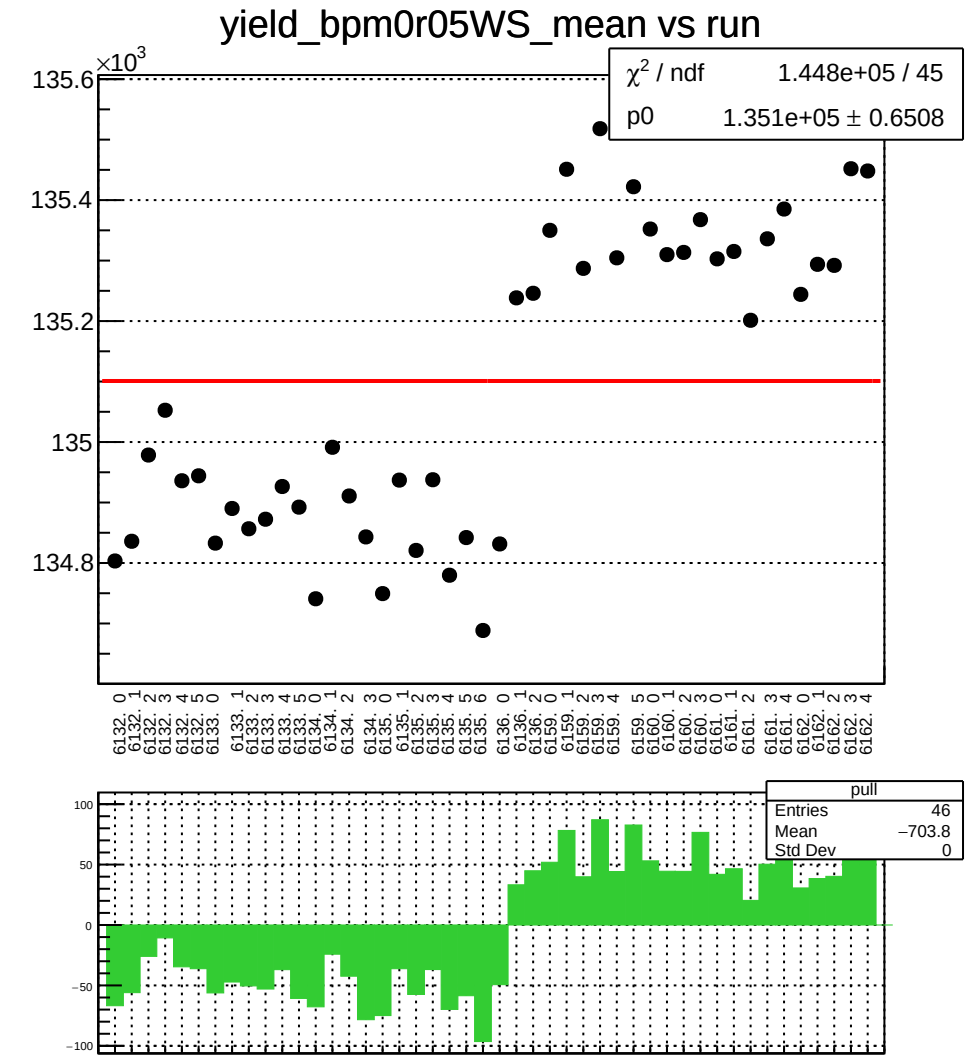
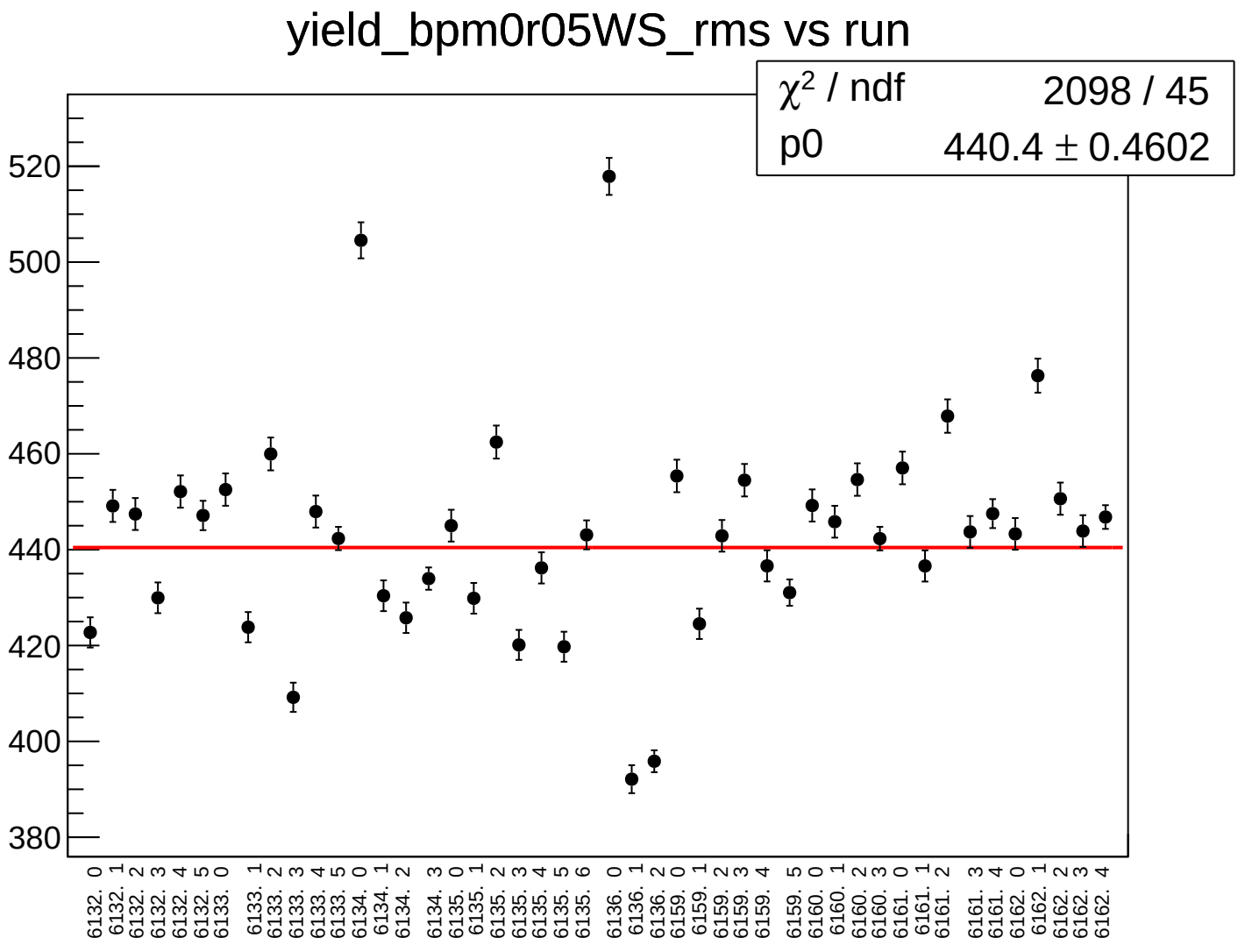
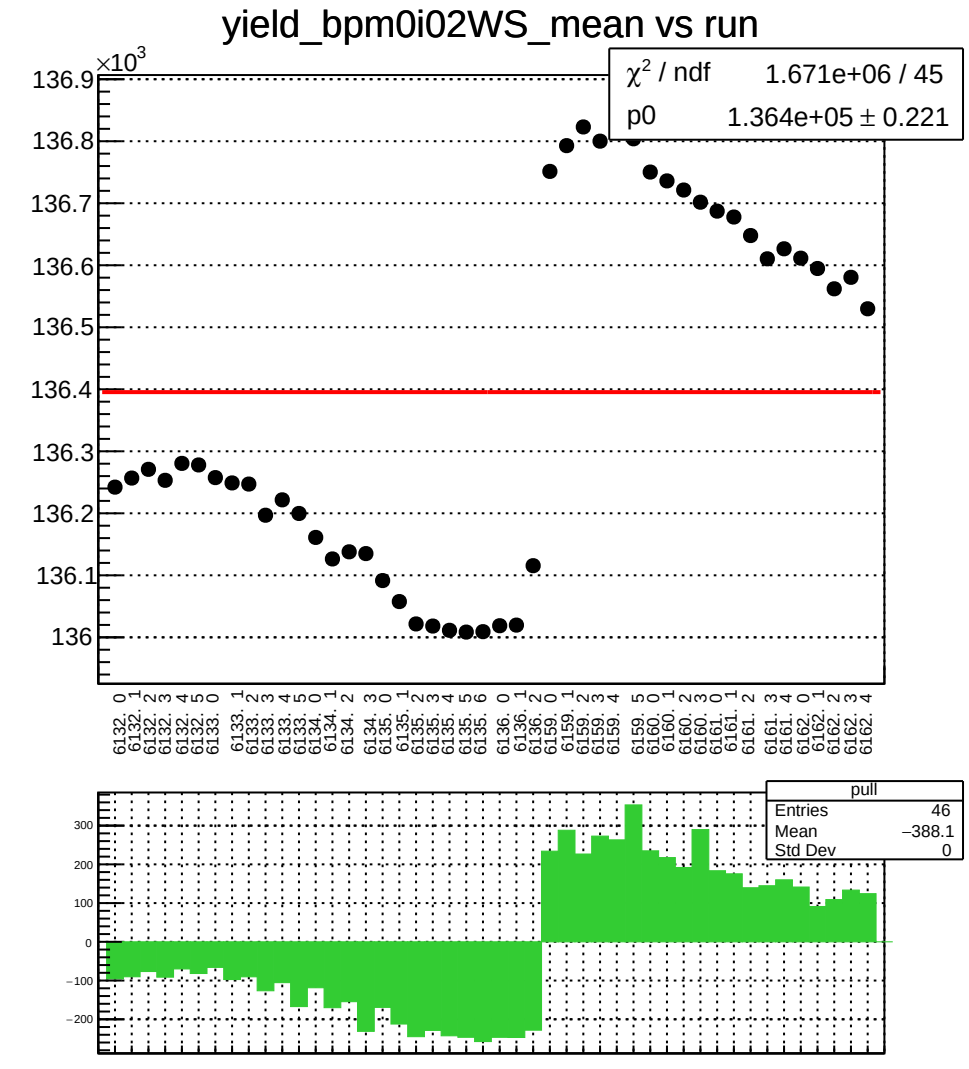
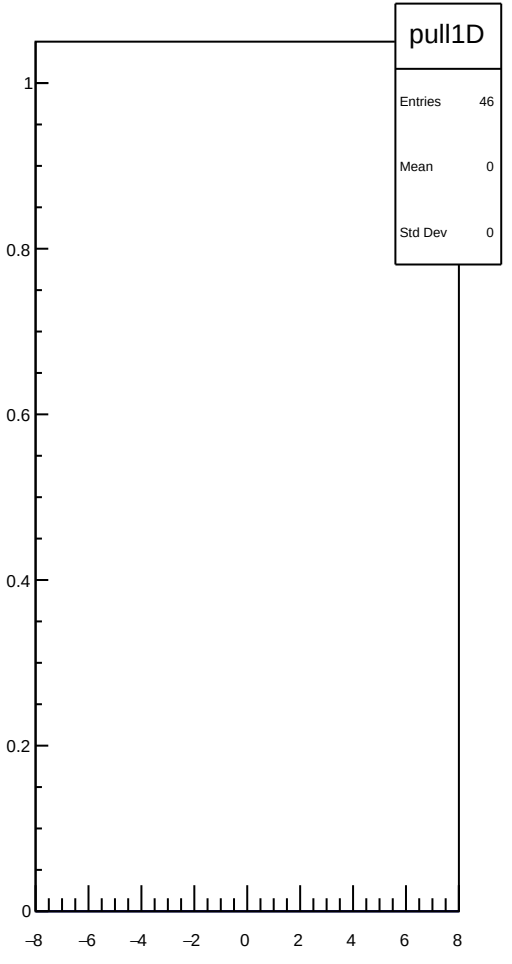
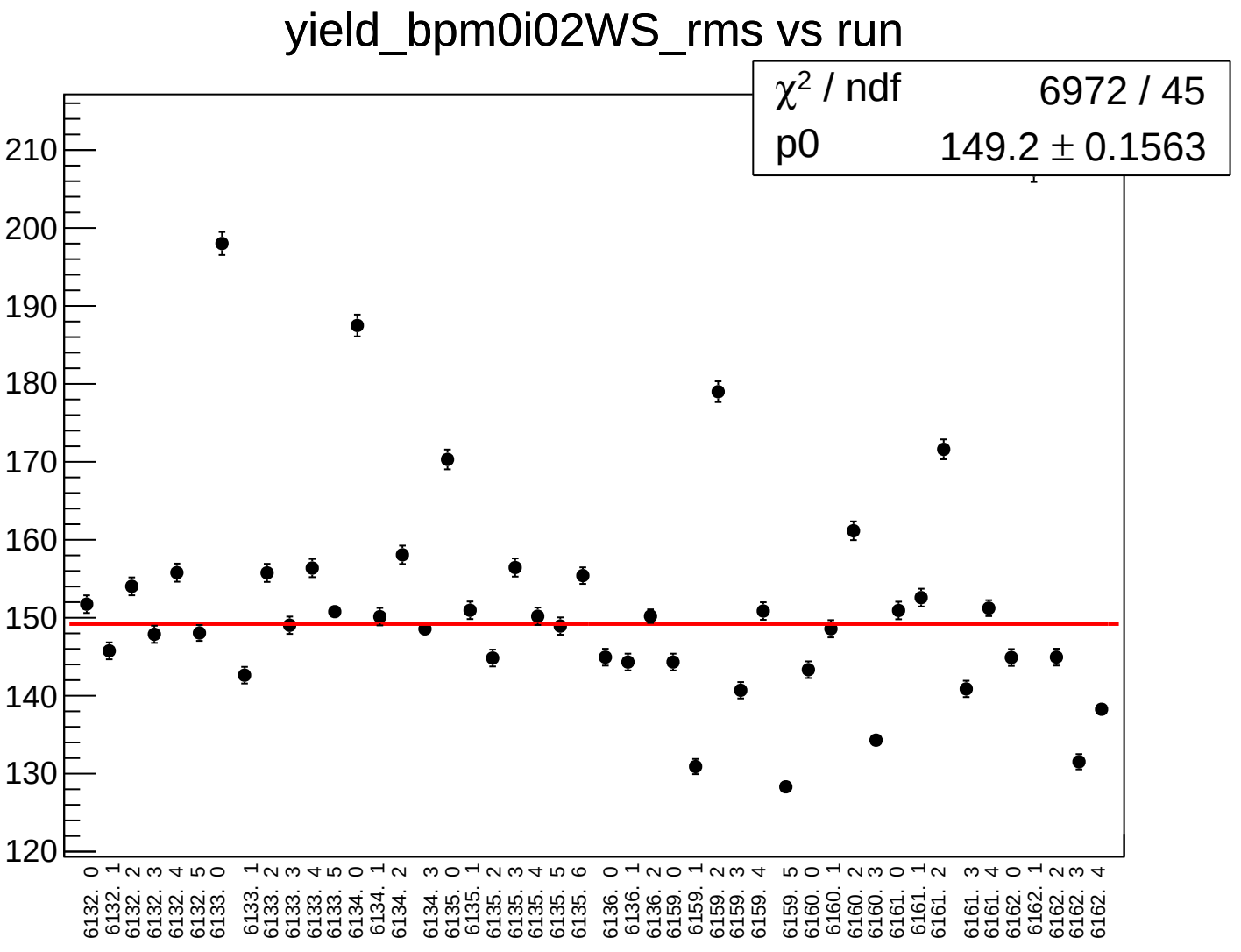
6162. 4

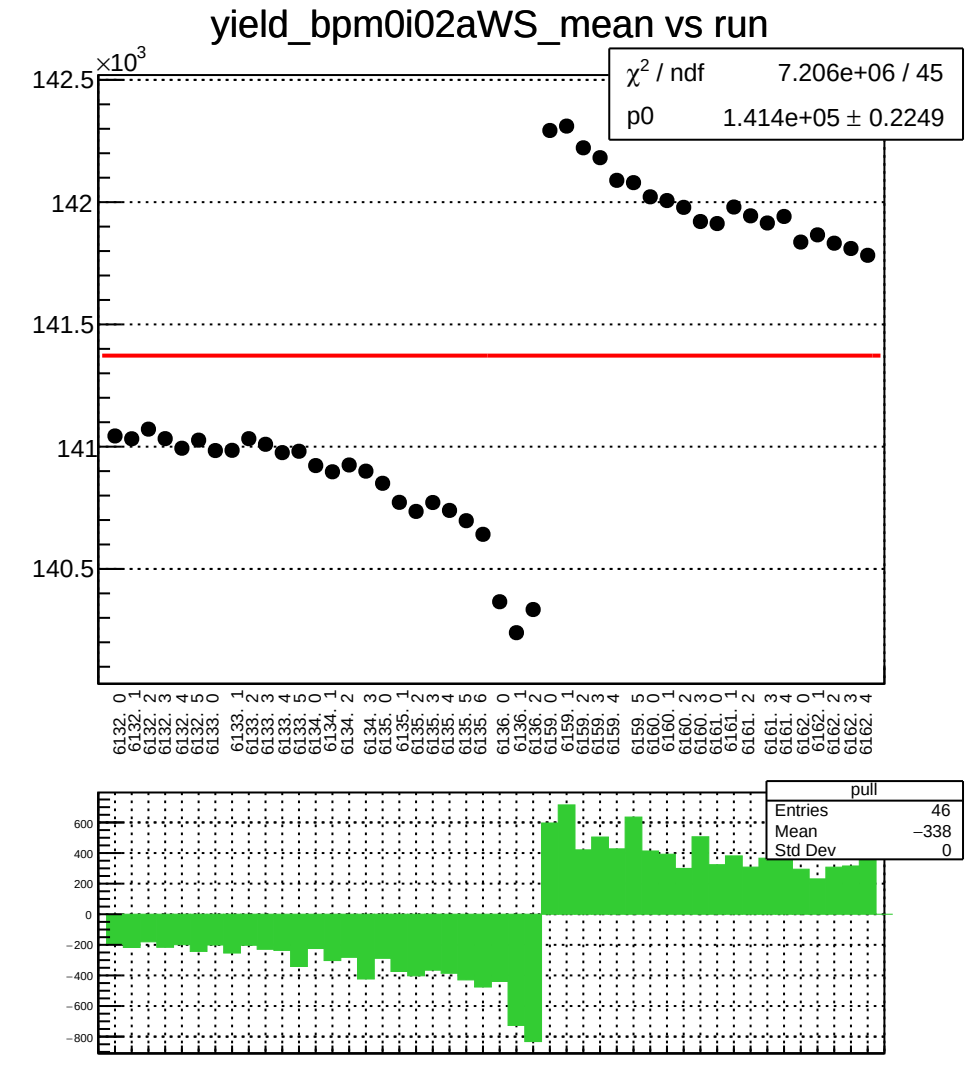

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.448e+05 / 45
p0 1.351e+05 ± 0.6508
135.6
135.4
135.2
135
134.8
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −703.8
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

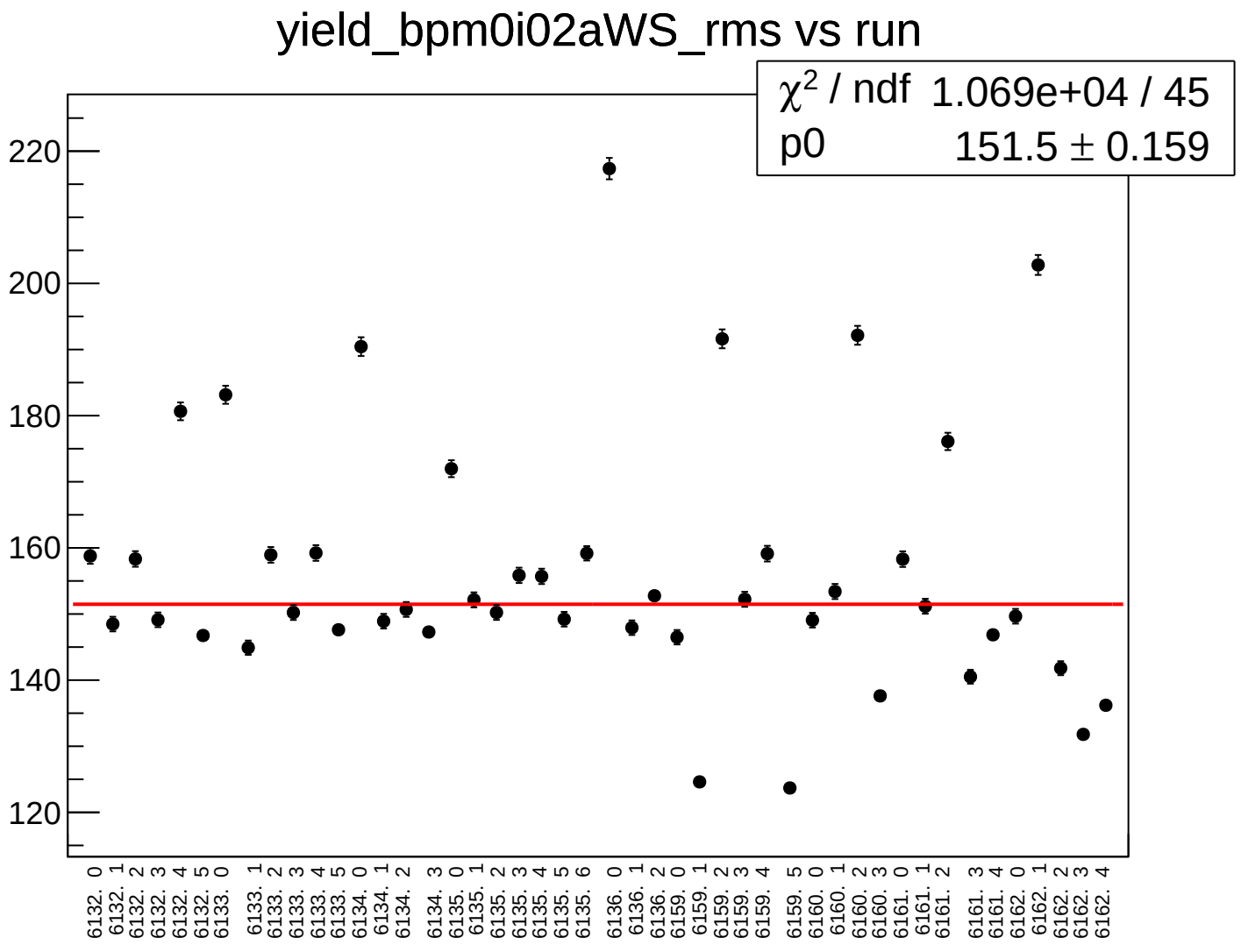

yield_bpm0r05WS_rms vs run
χ² / ndf 2098 / 45
p0 440.4 ± 0.4602
520
500
480
460
440
420
400
380
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

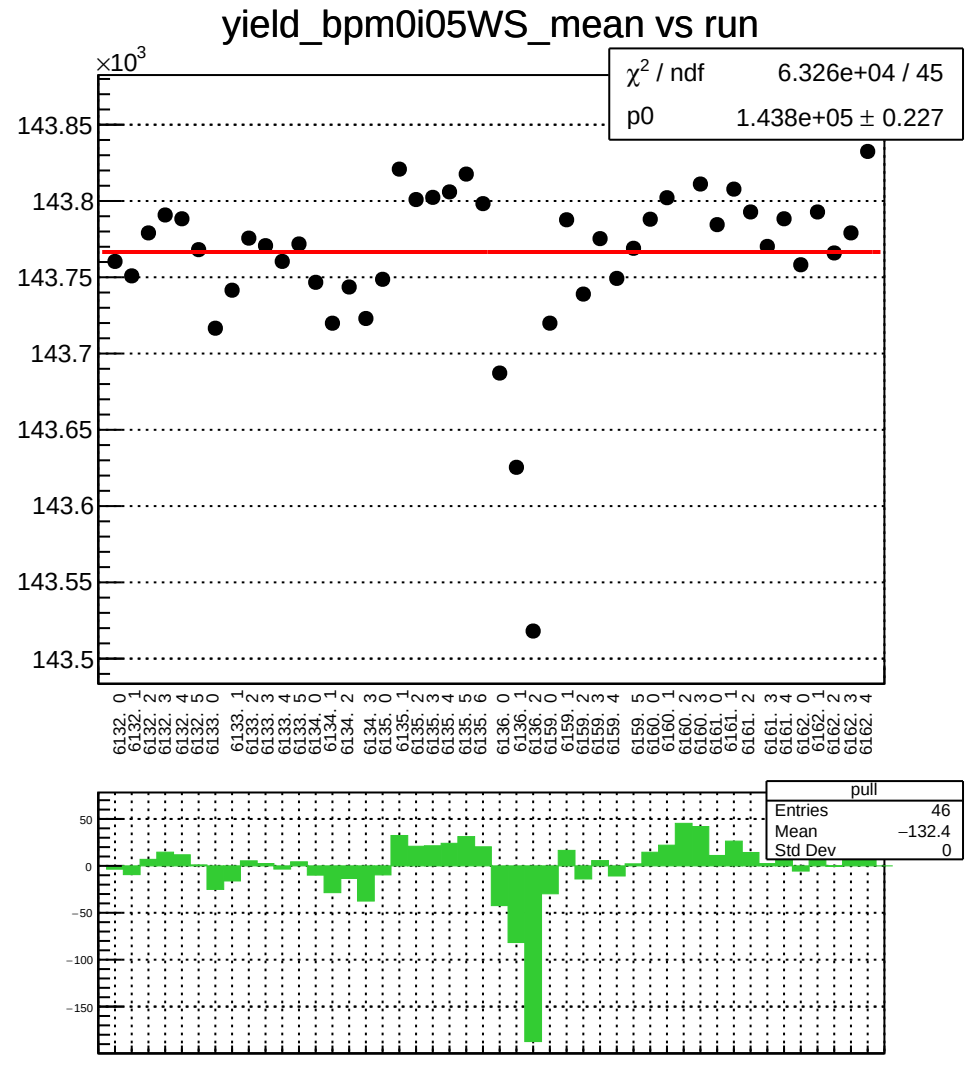

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 1.671e+06 / 45
p0 1.364e+05 ± 0.221
136.9
136.8
136.7
136.6
136.5
136.4
136.3
136.2
136.1
136
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −388.1
Std Dev 0
300
200
100
0
−100
−200

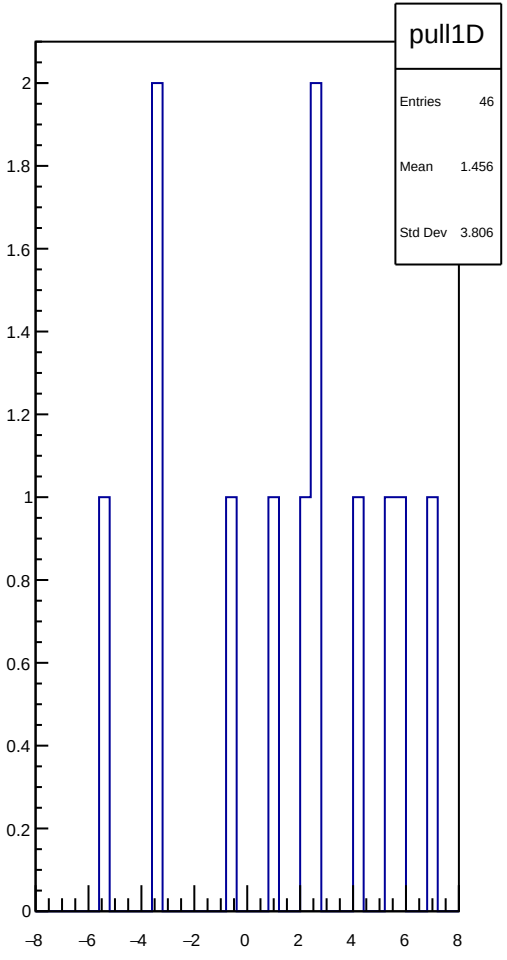

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

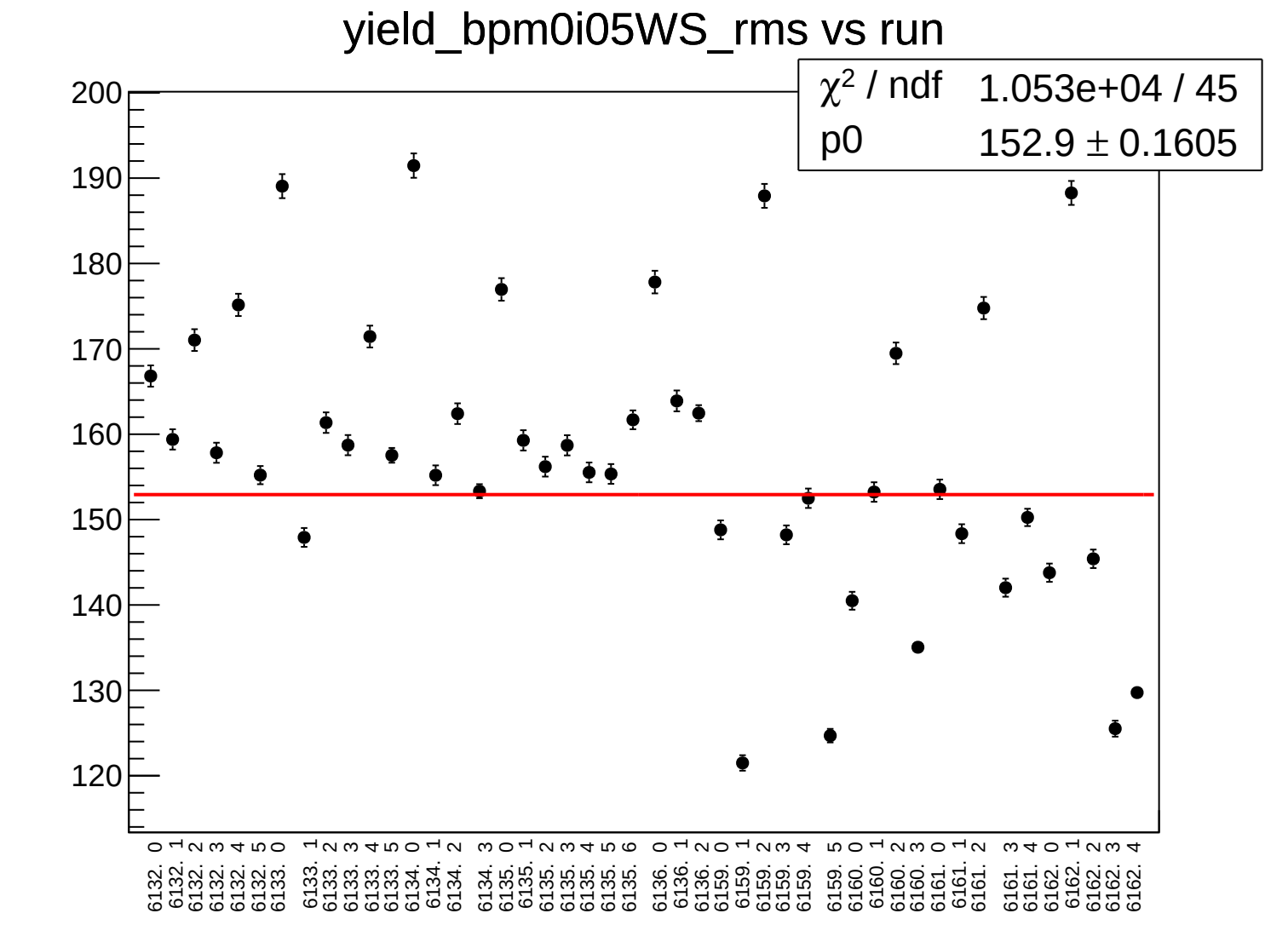

yield_bpm0i02WS_rms vs run
χ² / ndf 6972 / 45
p0 149.2 ± 0.1563
210
200
190
180
170
160
150
140
130
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

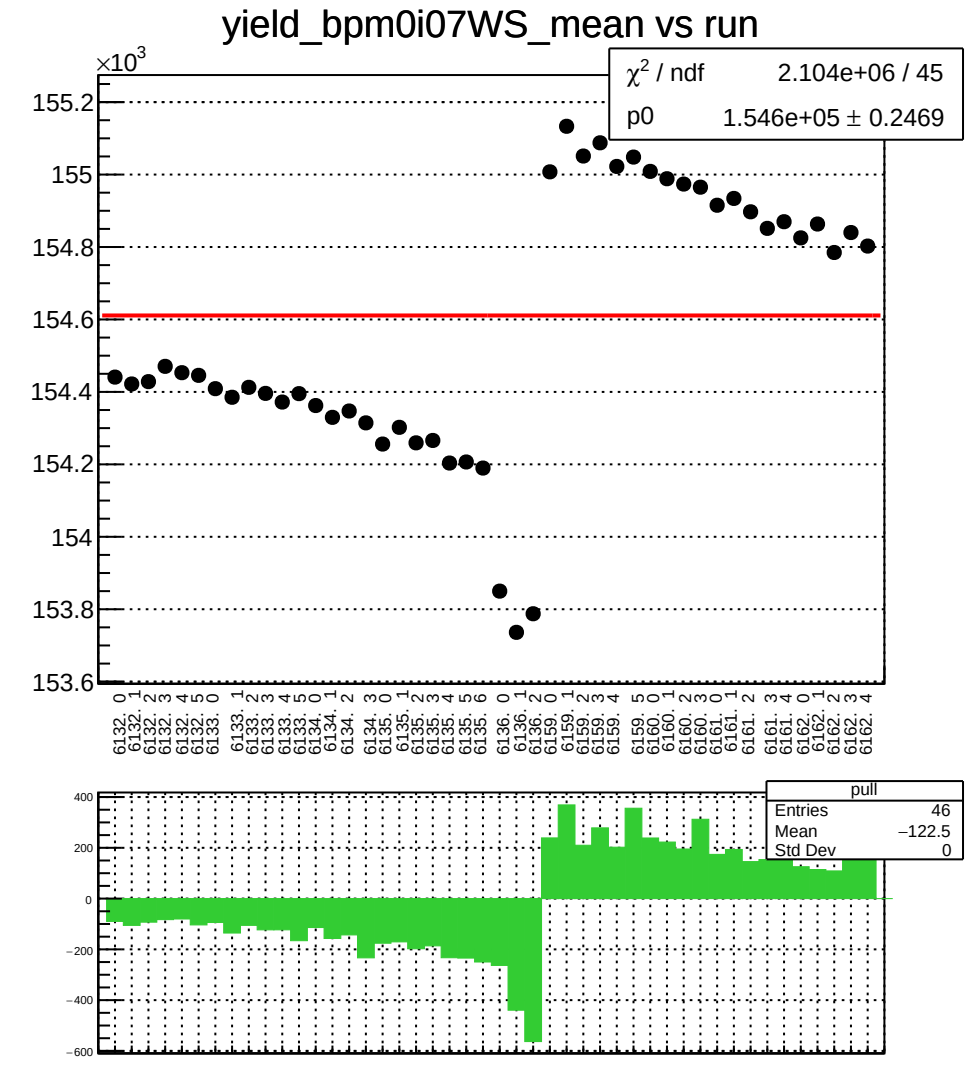

yield_bpm0i02aWS_mean vs run
×10^3
142.5
142
141.5
141
140.5
χ² / ndf 7.206e+06 / 45
p0 1.414e+05 ± 0.2249
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −338
Std Dev 0
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

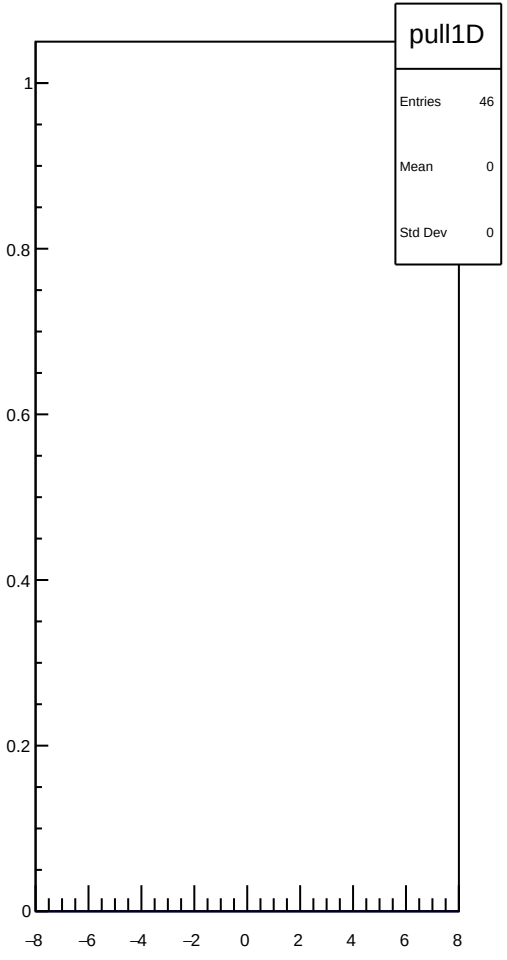

yield_bpm0i02aWS_rms vs run
χ² / ndf 1.069e+04 / 45
p0 151.5 ± 0.159
220
200
180
160
140
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

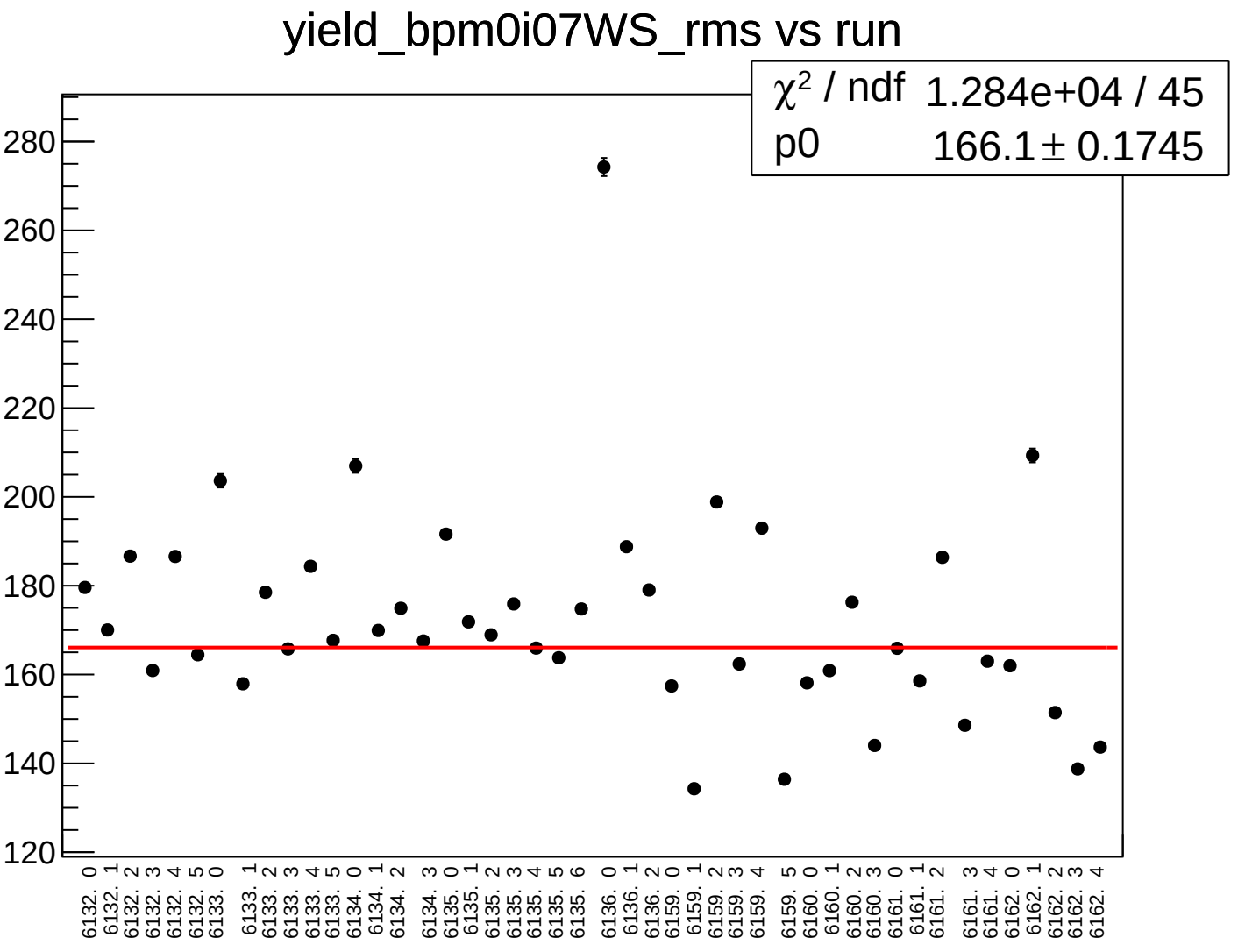

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 6.326e+04 / 45
p0 1.438e+05 ± 0.227
143.85
143.8
143.75
143.7
143.65
143.6
143.55
143.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −132.4
Std Dev 0
50
0
−50
−100
−150

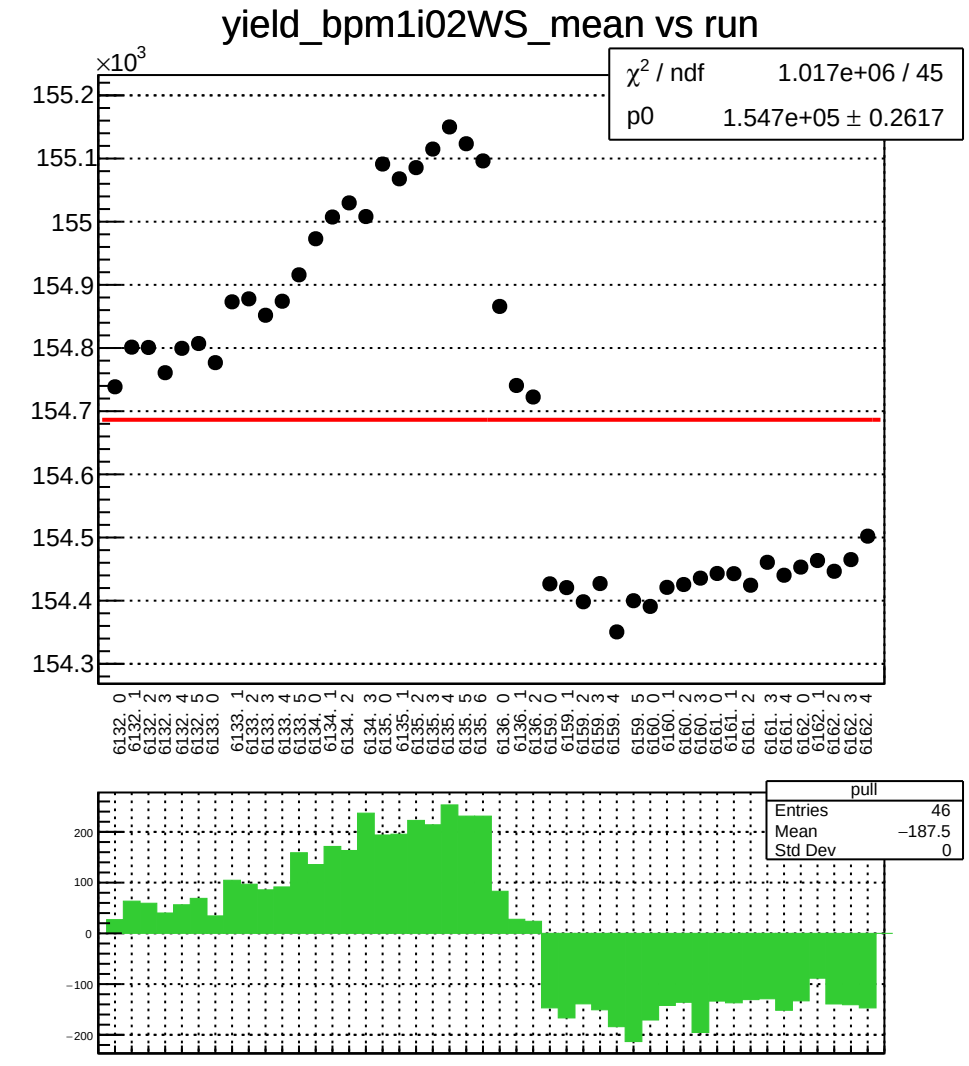

pull1D
Entries 46
Mean 1.456
Std Dev 3.806
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

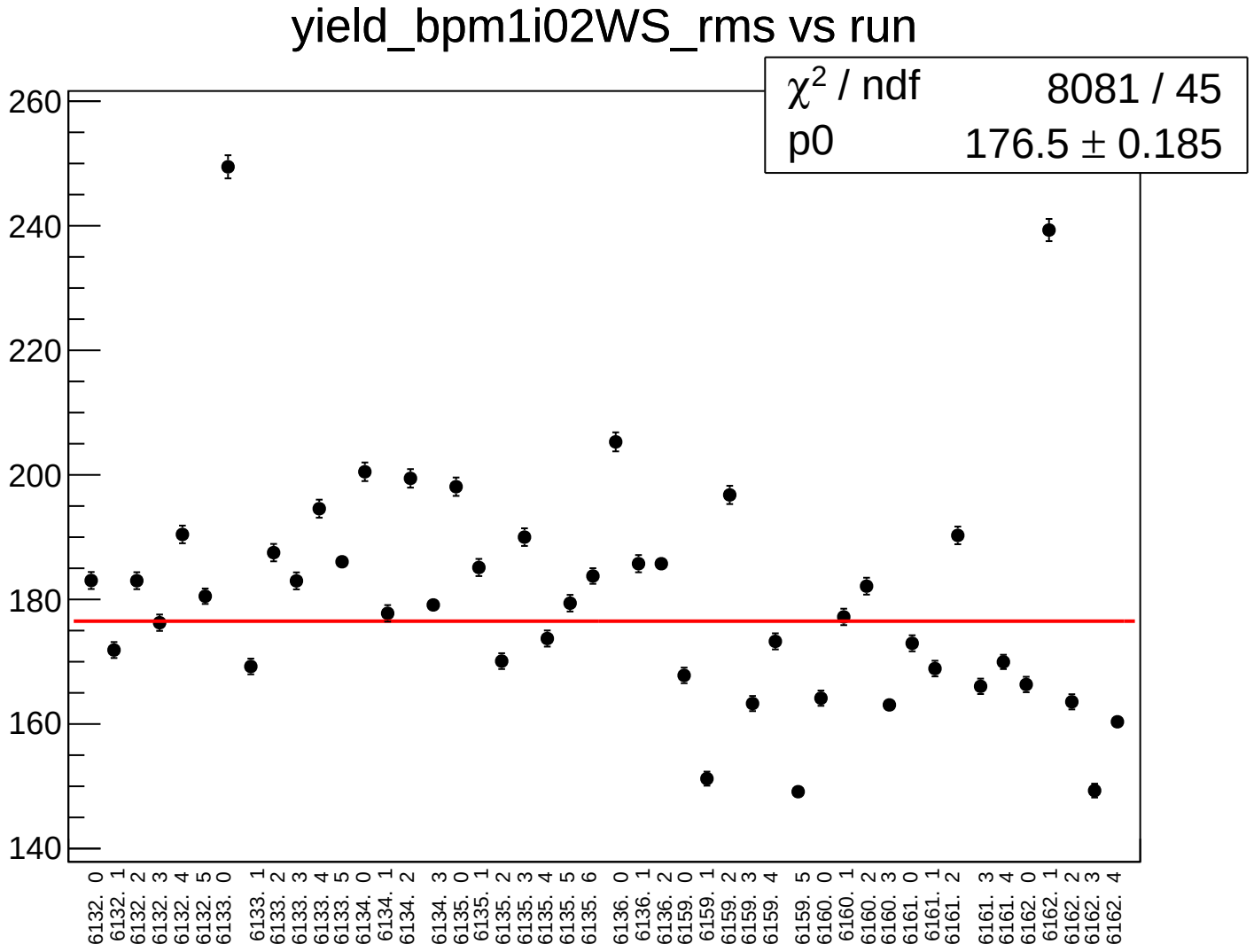

yield_bpm0i05WS_rms vs run
χ² / ndf 1.053e+04 / 45
p0 152.9 ± 0.1605
200
190
180
170
160
150
140
130
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

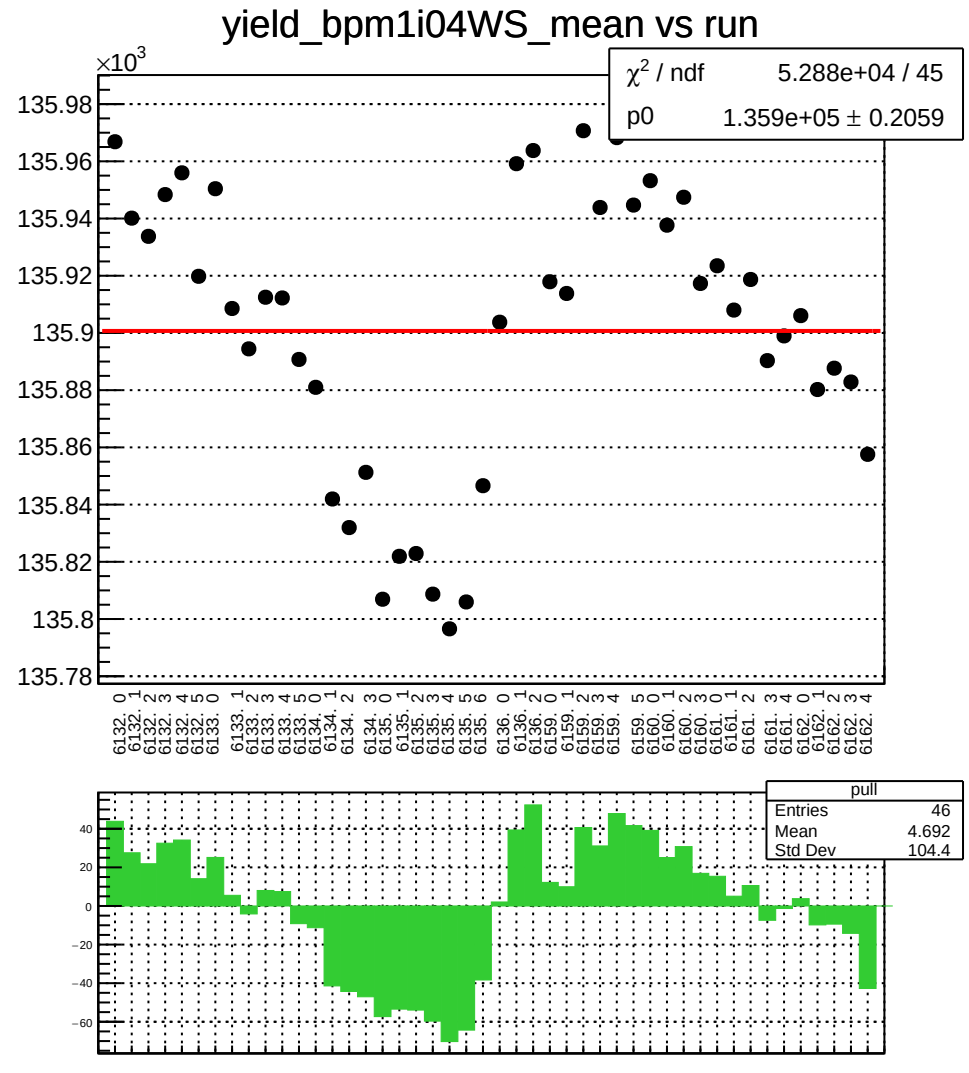

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 2.104e+06 / 45
p0 1.546e+05 ± 0.2469
155.2
155
154.8
154.6
154.4
154.2
154
153.8
153.6
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −122.5
Std Dev 0
400
200
0
−200
−400
−600

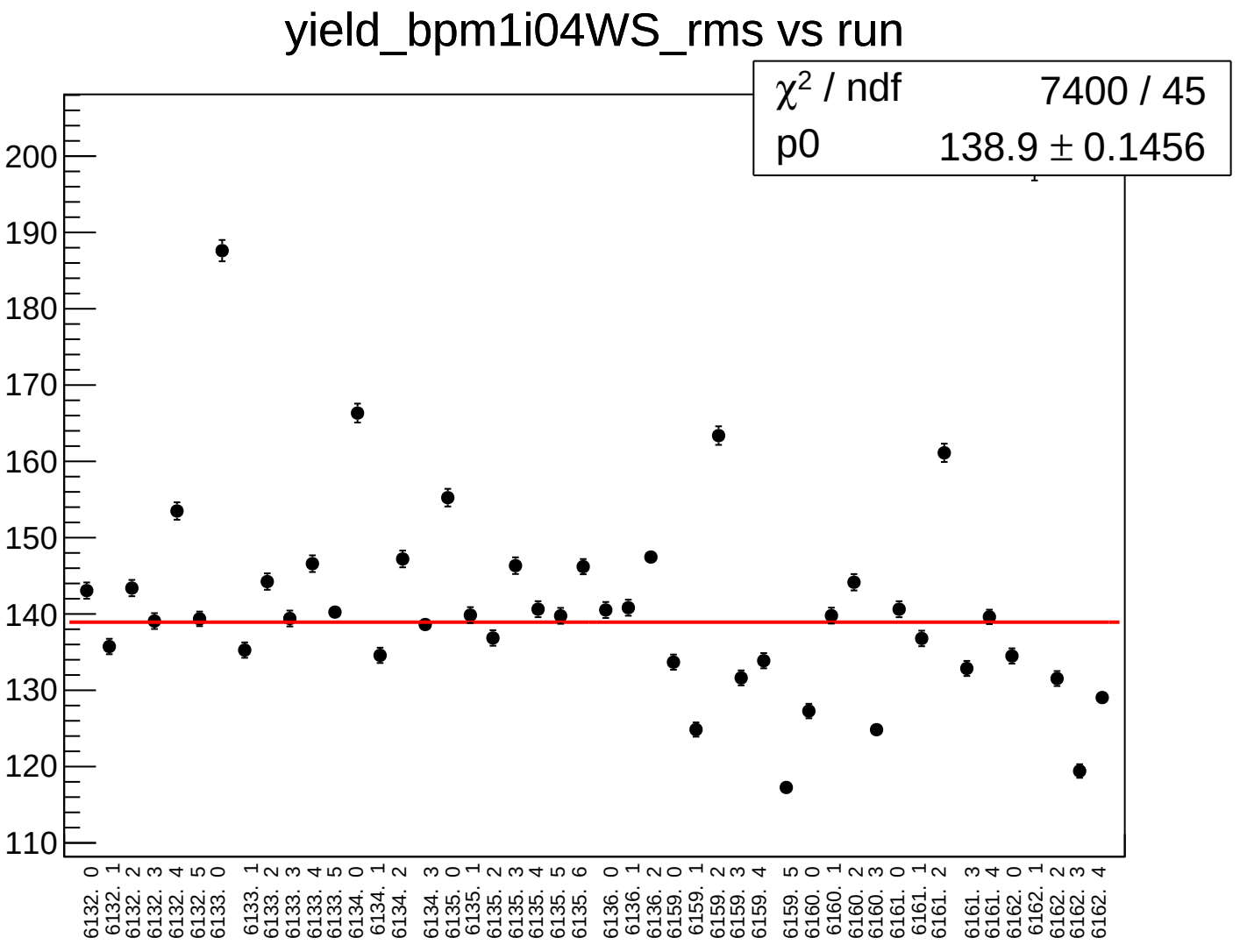

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

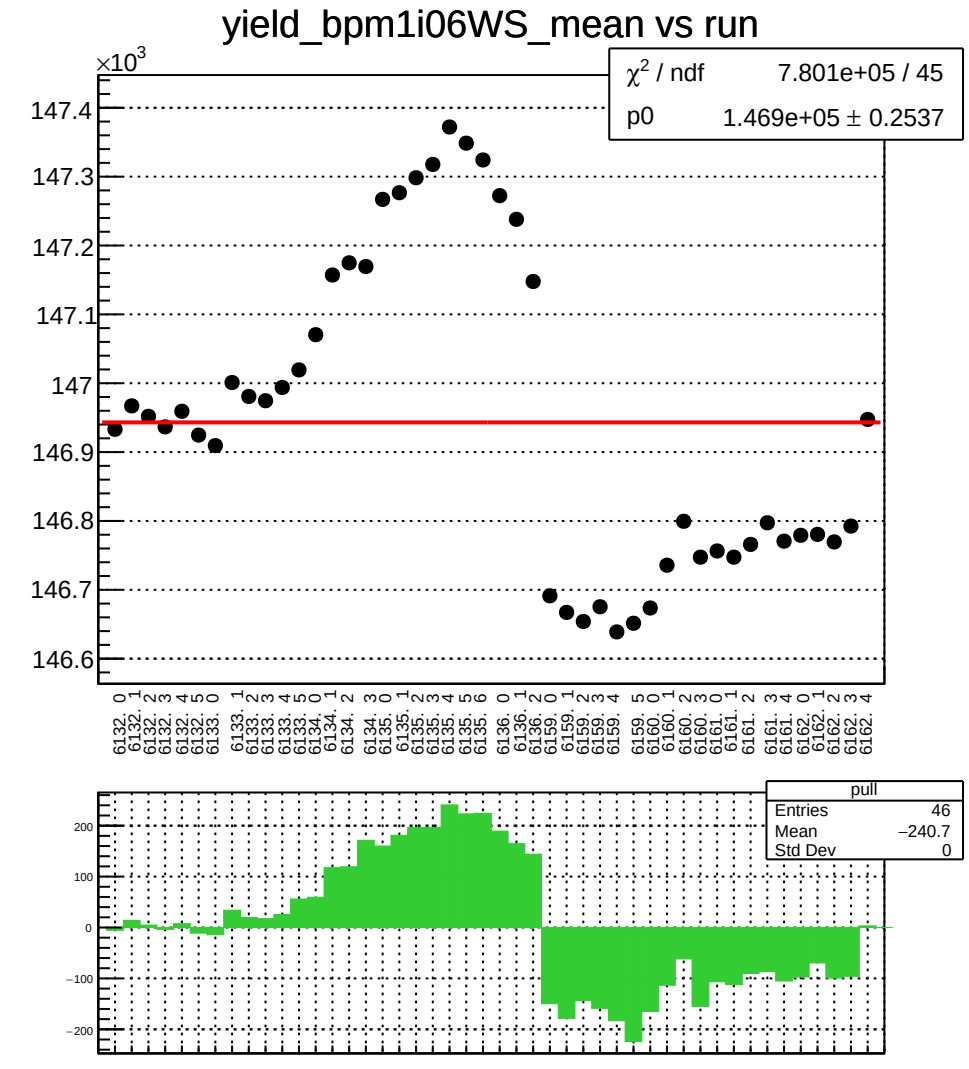

yield_bpm0i07WS_rms vs run
χ² / ndf 1.284e+04 / 45
p0 166.1 ± 0.1745
280
260
240
220
200
180
160
140
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

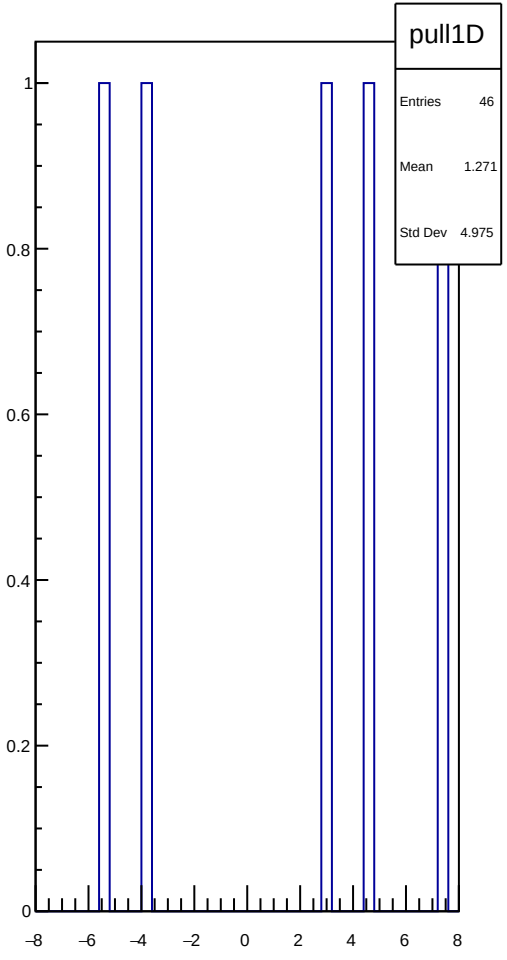

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 1.017e+06 / 45
p0 1.547e+05 ± 0.2617
155.2
155.1
155
154.9
154.8
154.7
154.6
154.5
154.4
154.3
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −187.5
Std Dev 0
200
100
0
−100
−200
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

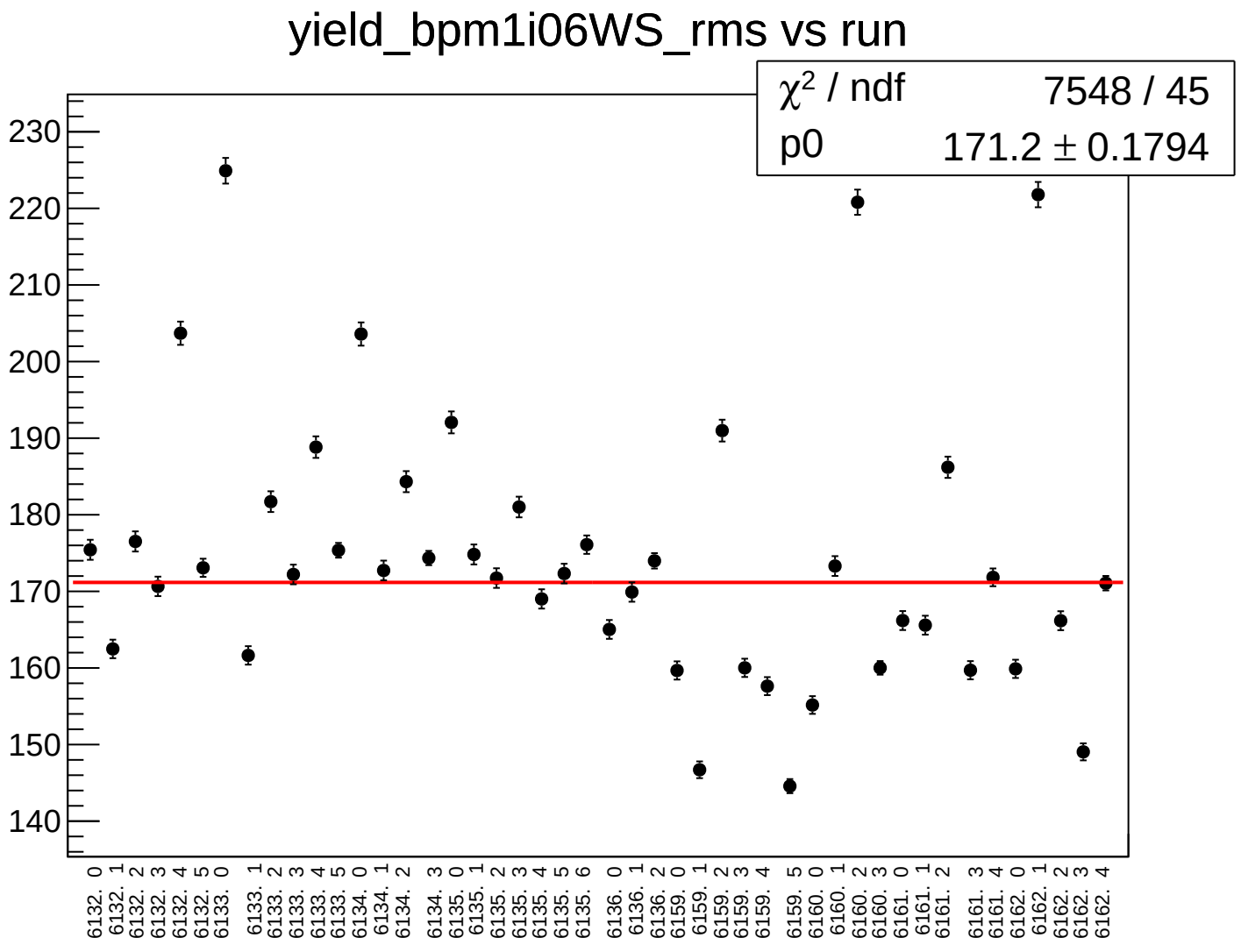

yield_bpm1i02WS_rms vs run
χ² / ndf 8081 / 45
p0 176.5 ± 0.185
260
240
220
200
180
160
140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

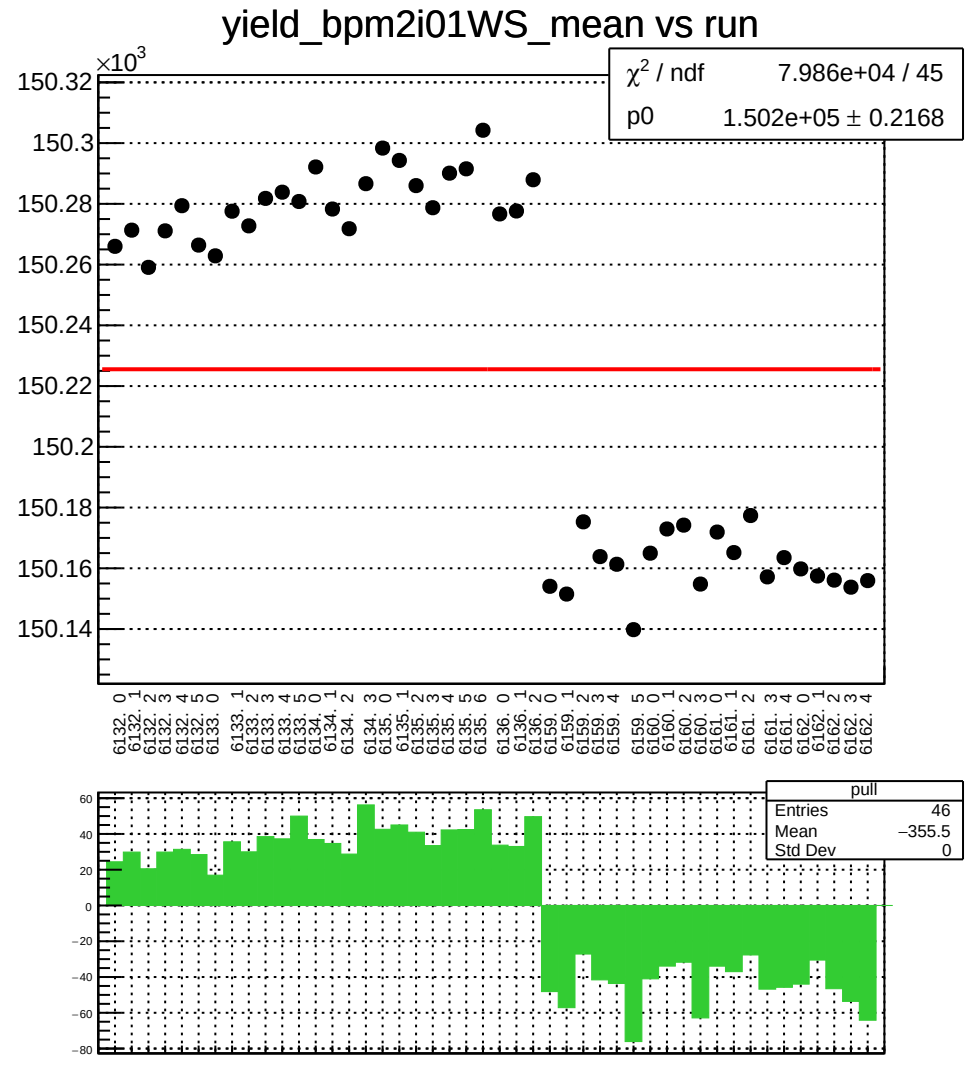

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 5.288e+04 / 45
p0 1.359e+05 ± 0.2059
135.98
135.96
135.94
135.92
135.9
135.88
135.86
135.84
135.82
135.8
135.78
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 4.692
Std Dev 104.4
40
20
0
−20
−40
−60
pull1D
Entries 46
Mean 1.381
Std Dev 4.852
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

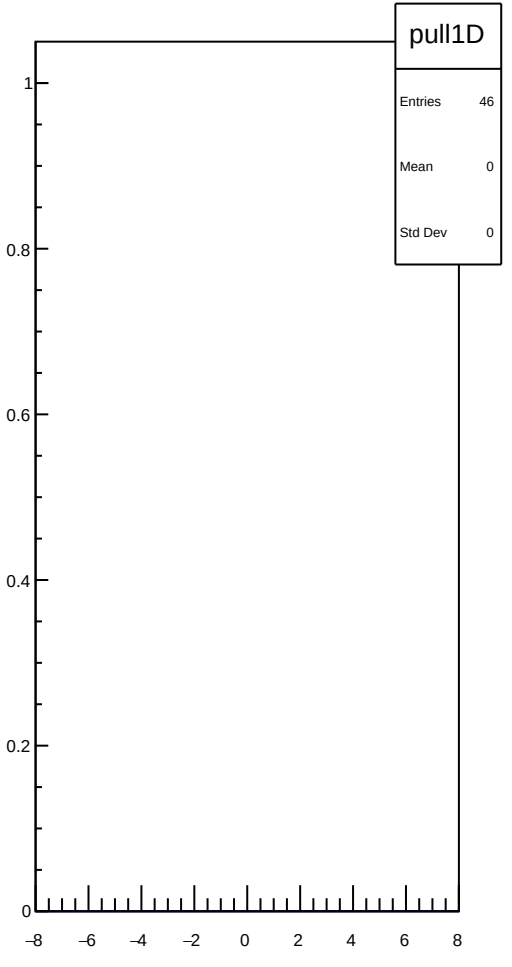

yield_bpm1i04WS_rms vs run
χ² / ndf 7400 / 45
p0 138.9 ± 0.1456
200
190
180
170
160
150
140
130
120
110
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

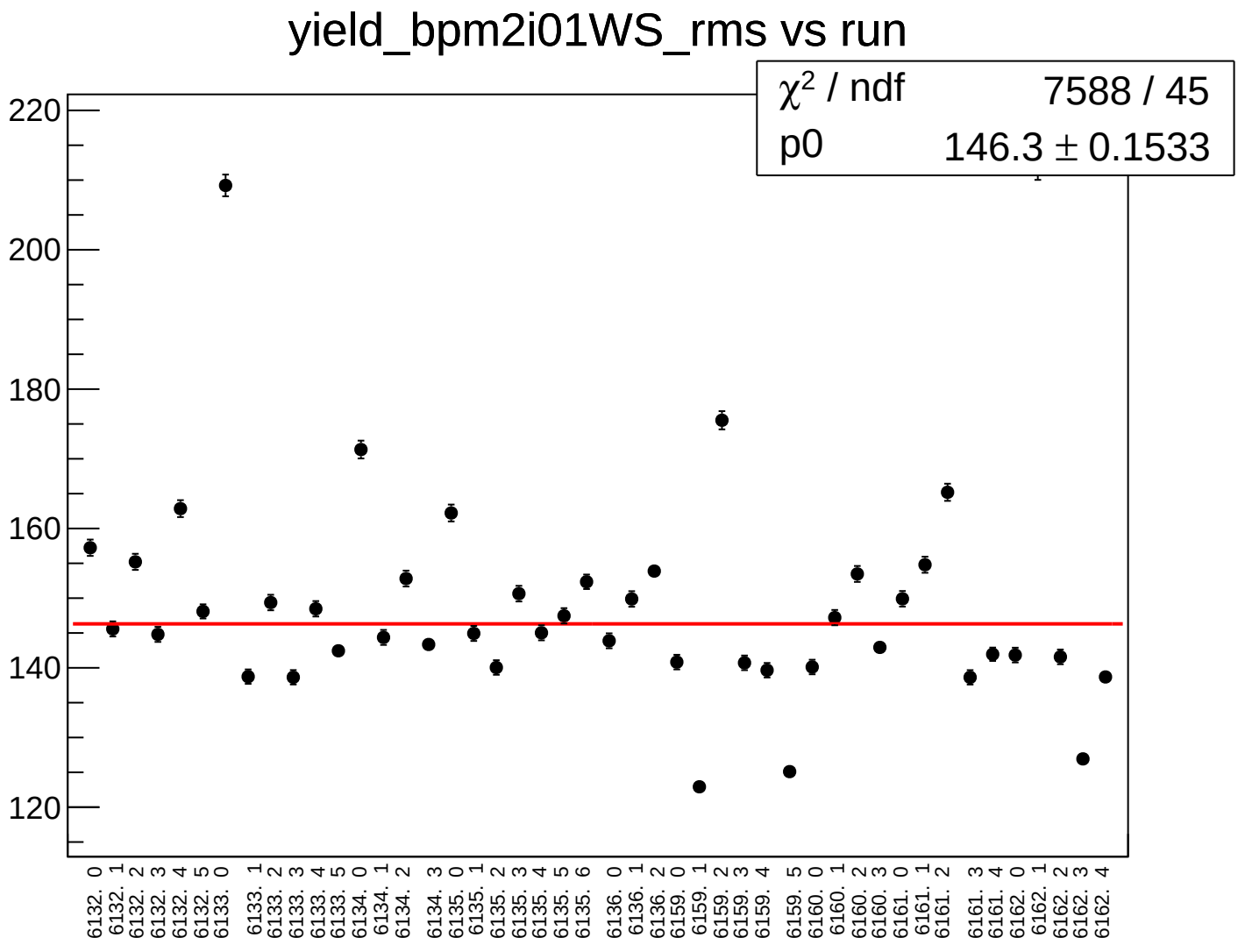

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 7.801e+05 / 45
p0 1.469e+05 ± 0.2537
147.4
147.3
147.2
147.1
147
146.9
146.8
146.7
146.6
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −240.7
Std Dev 0
200
100
0
−100
−200

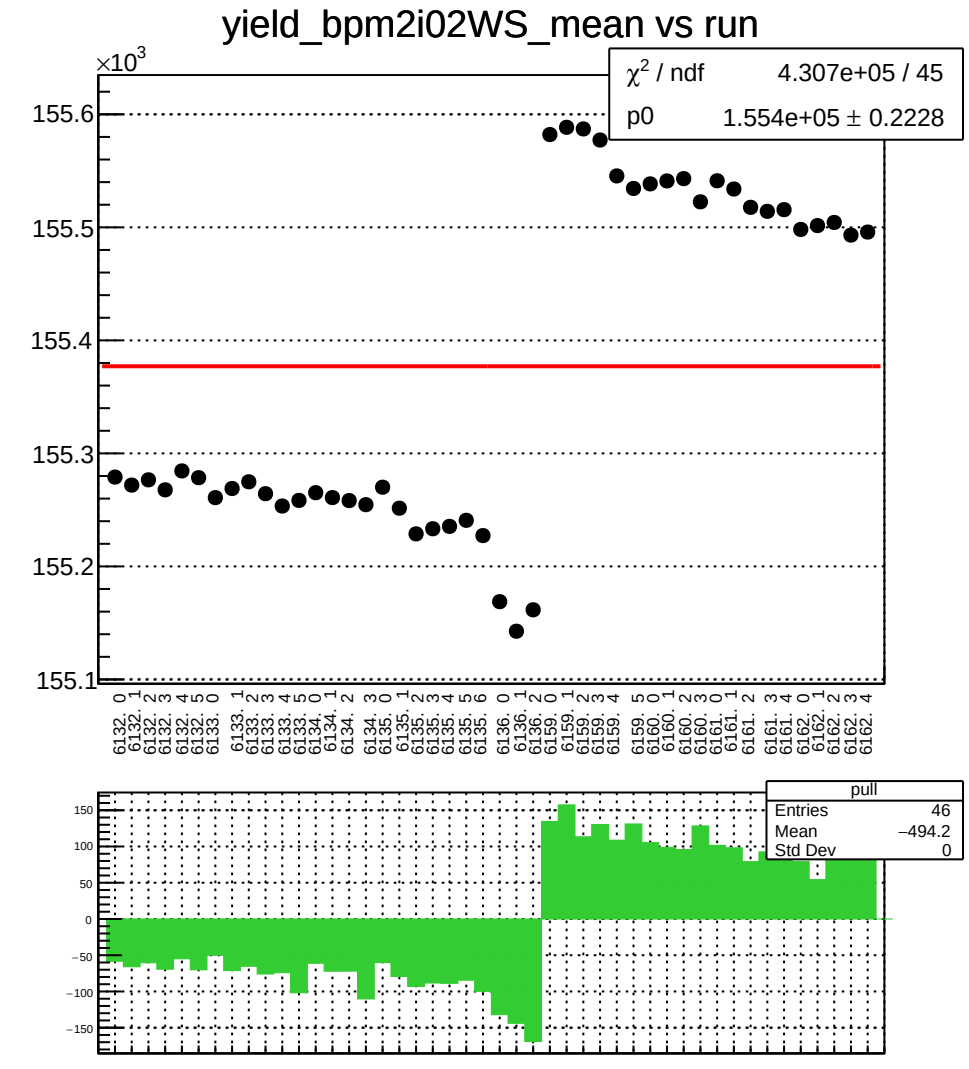

pull1D
Entries 46
Mean 1.271
Std Dev 4.975
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

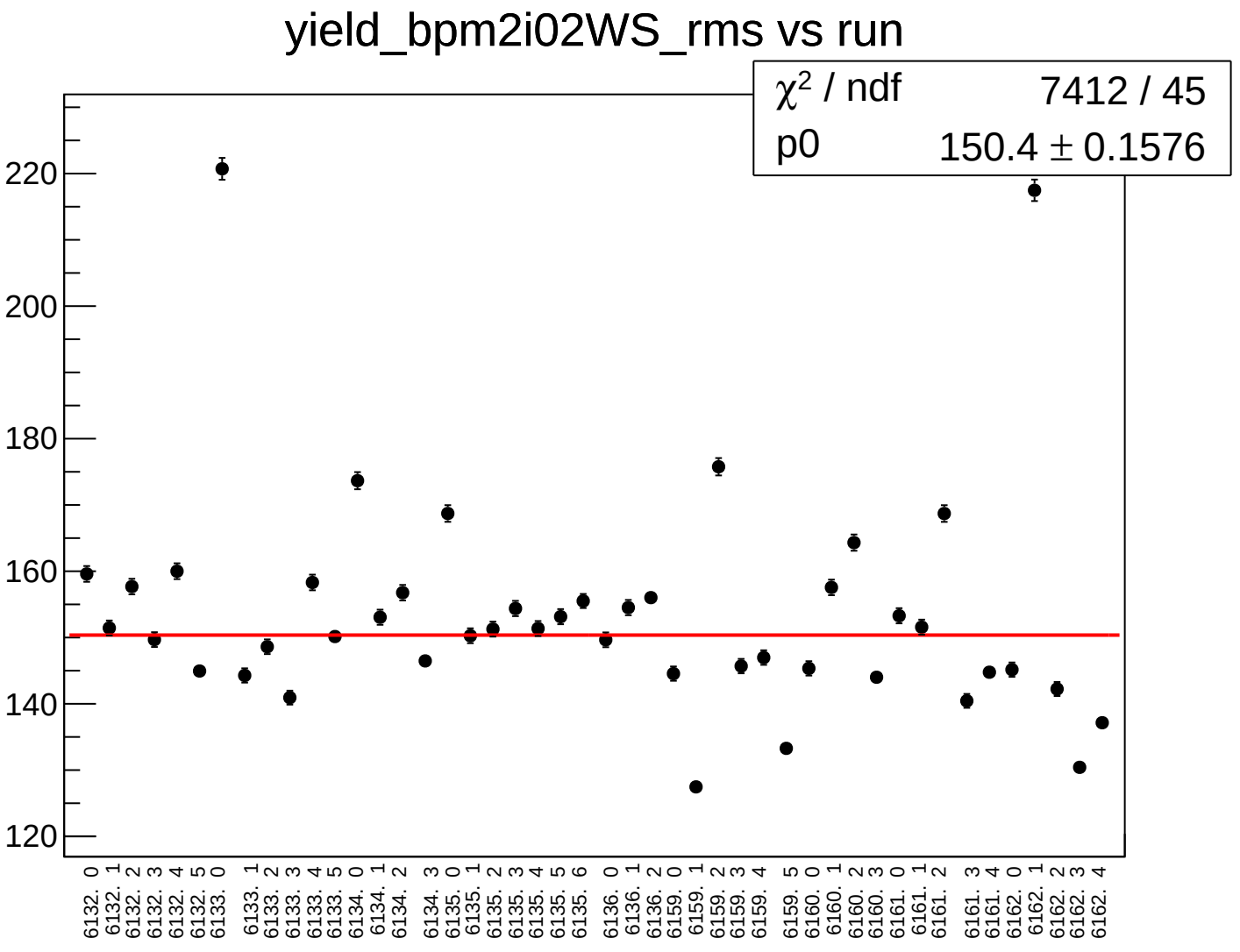

yield_bpm1i06WS_rms vs run
χ² / ndf 7548 / 45
p0 171.2 ± 0.1794
230
220
210
200
190
180
170
160
150
140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

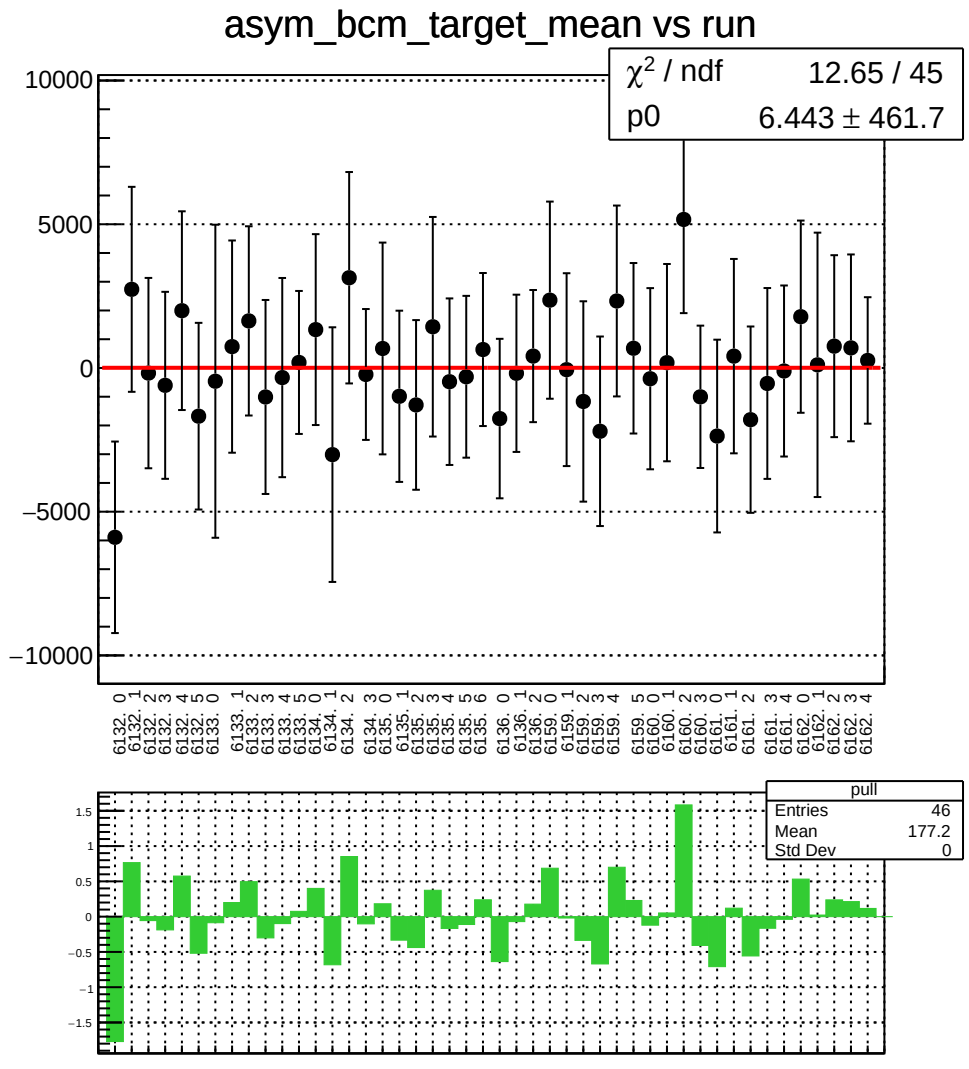

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 7.986e+04 / 45
p0 1.502e+05 ± 0.2168
150.32
150.3
150.28
150.26
150.24
150.22
150.2
150.18
150.16
150.14
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −355.5
Std Dev 0
60
40
20
0
−20
−40
−60
−80

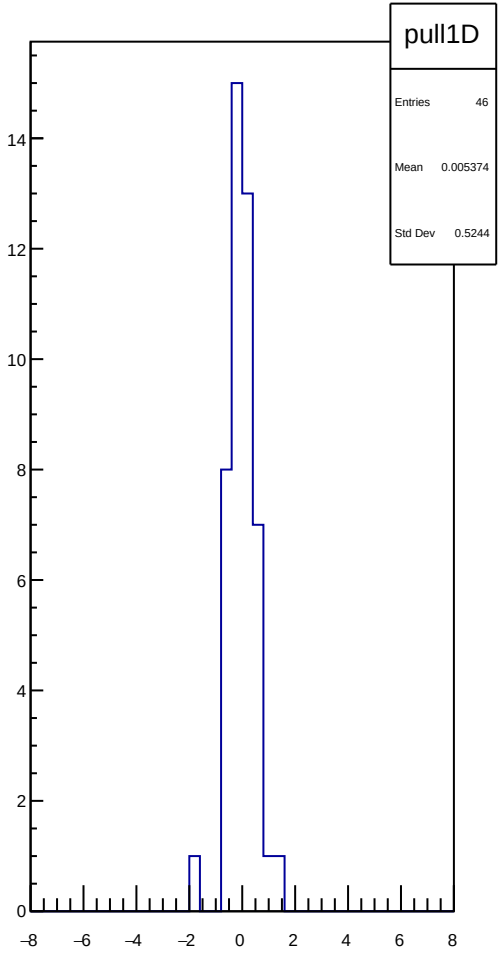

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

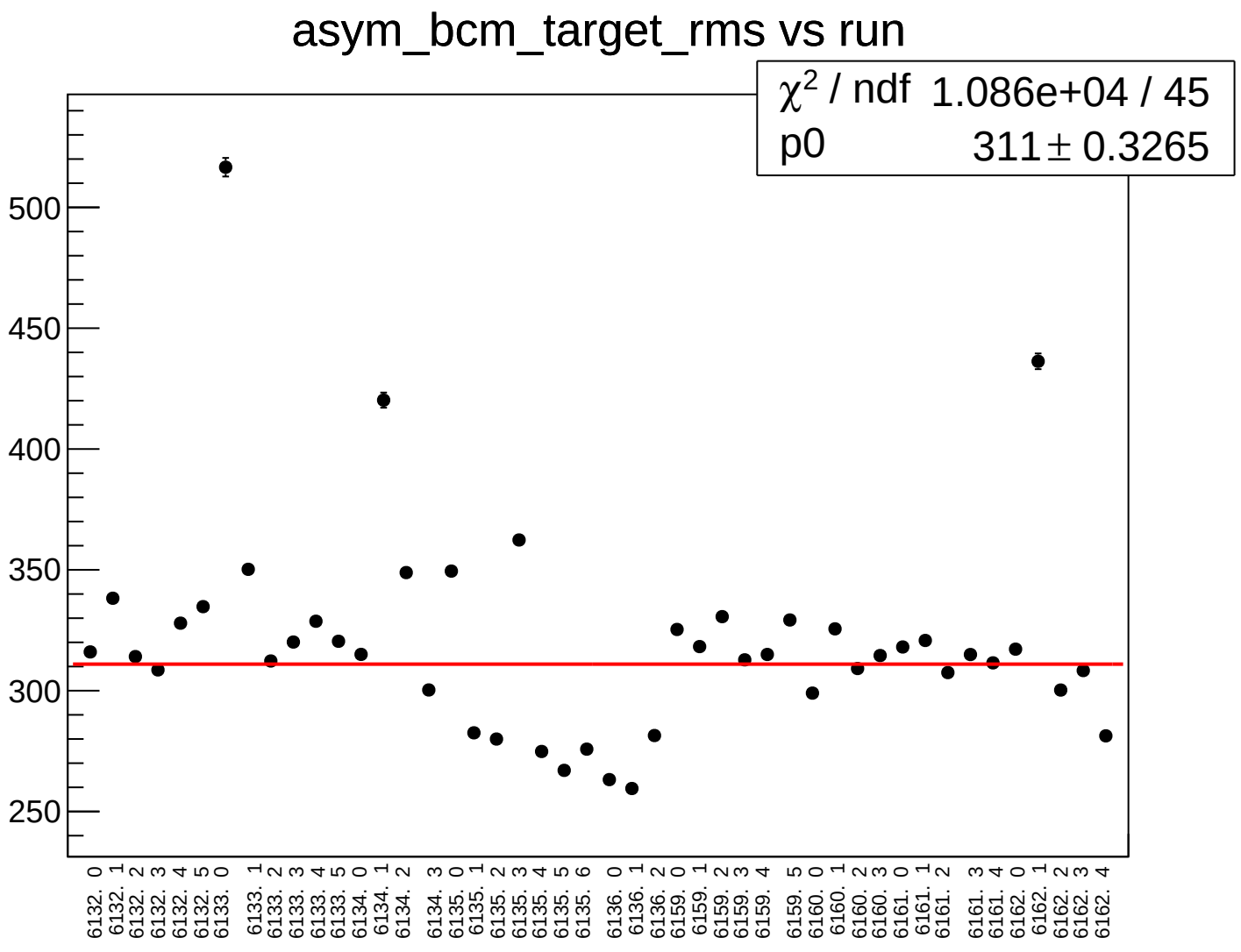

yield_bpm2i01WS_rms vs run
χ² / ndf 7588 / 45
p0 146.3 ± 0.1533
220
200
180
160
140
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

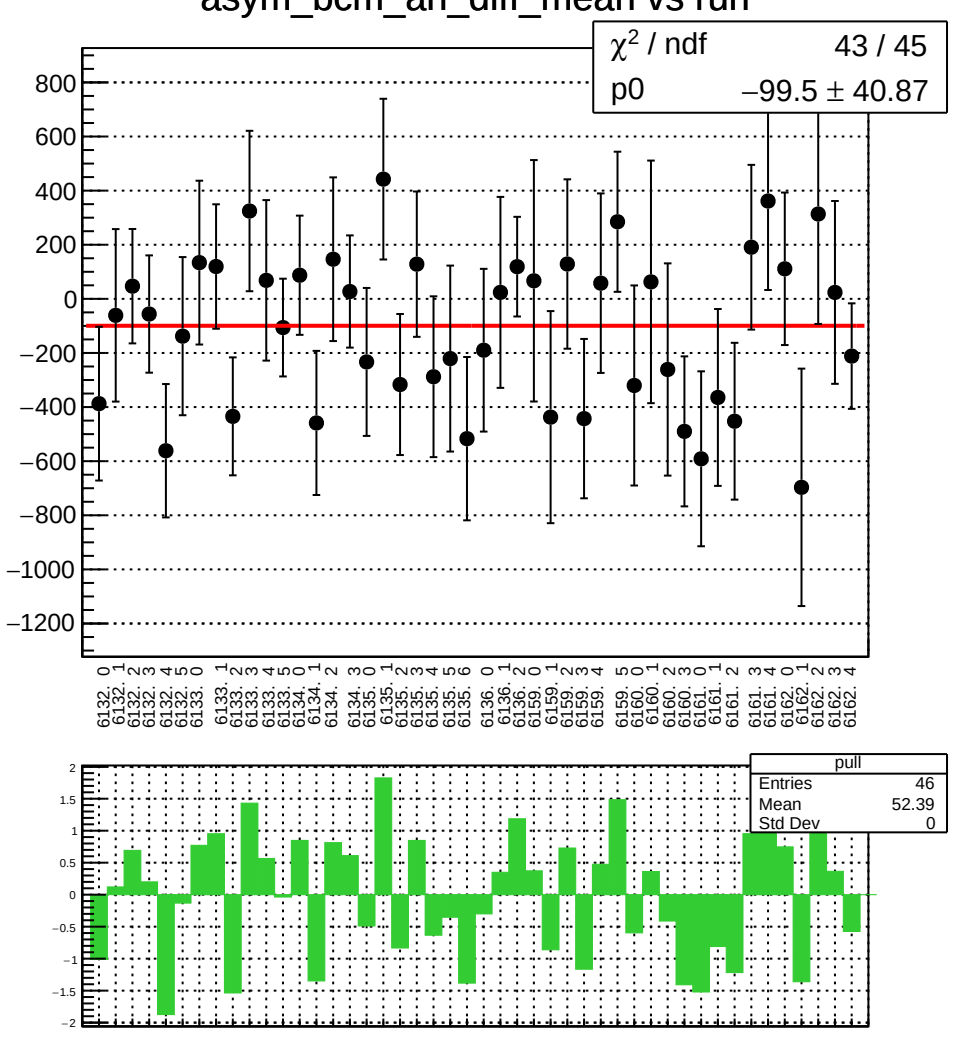

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 4.307e+05 / 45
p0 1.554e+05 ± 0.2228
155.6
155.5
155.4
155.3
155.2
155.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −494.2
Std Dev 0
150
100
50
0
−50
−100
−150
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

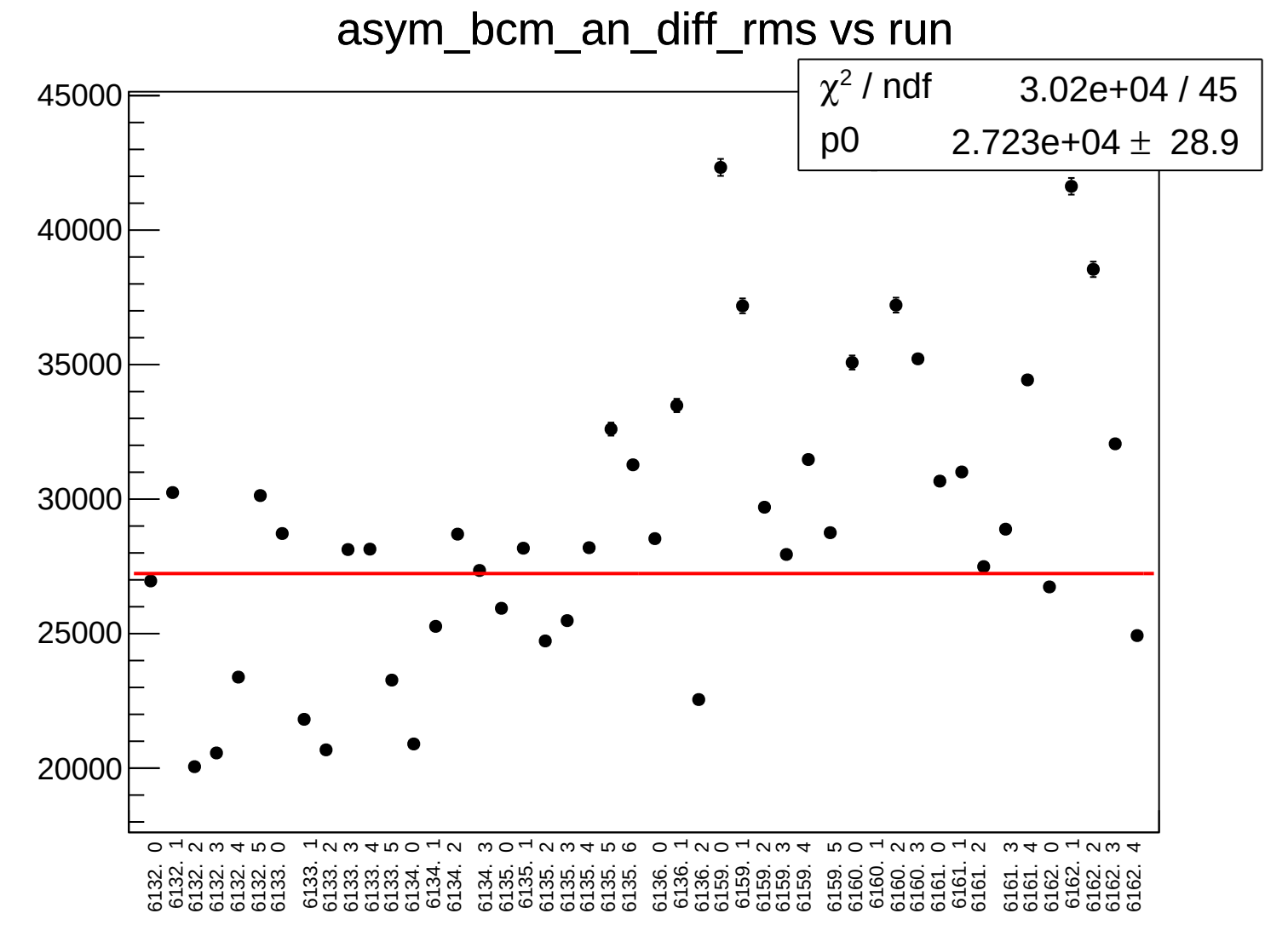

yield_bpm2i02WS_rms vs run
χ² / ndf 7412 / 45
p0 150.4 ± 0.1576
220
200
180
160
140
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

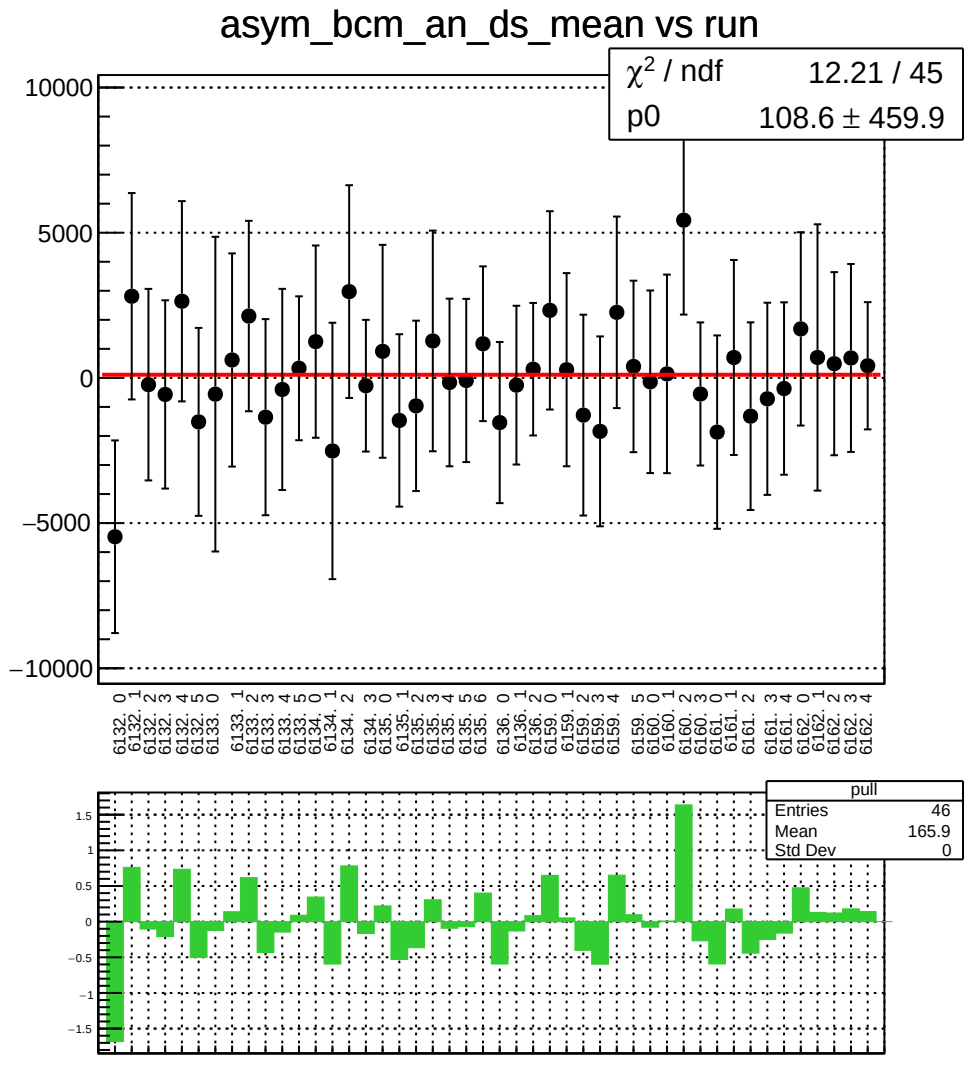

asym_bcm_target_mean vs run
χ² / ndf 12.65 / 45
p0 6.443 ± 461.7
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 177.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

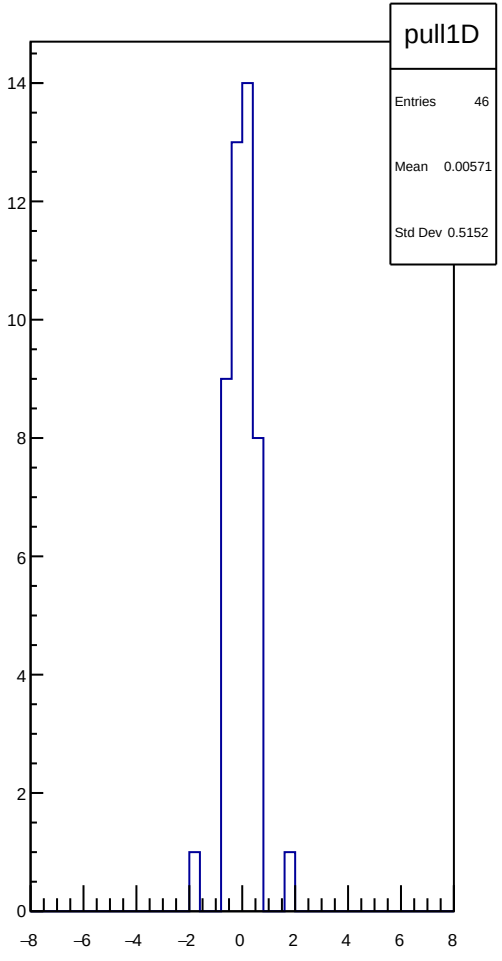

pull1D
Entries 46
Mean 0.005374
Std Dev 0.5244
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

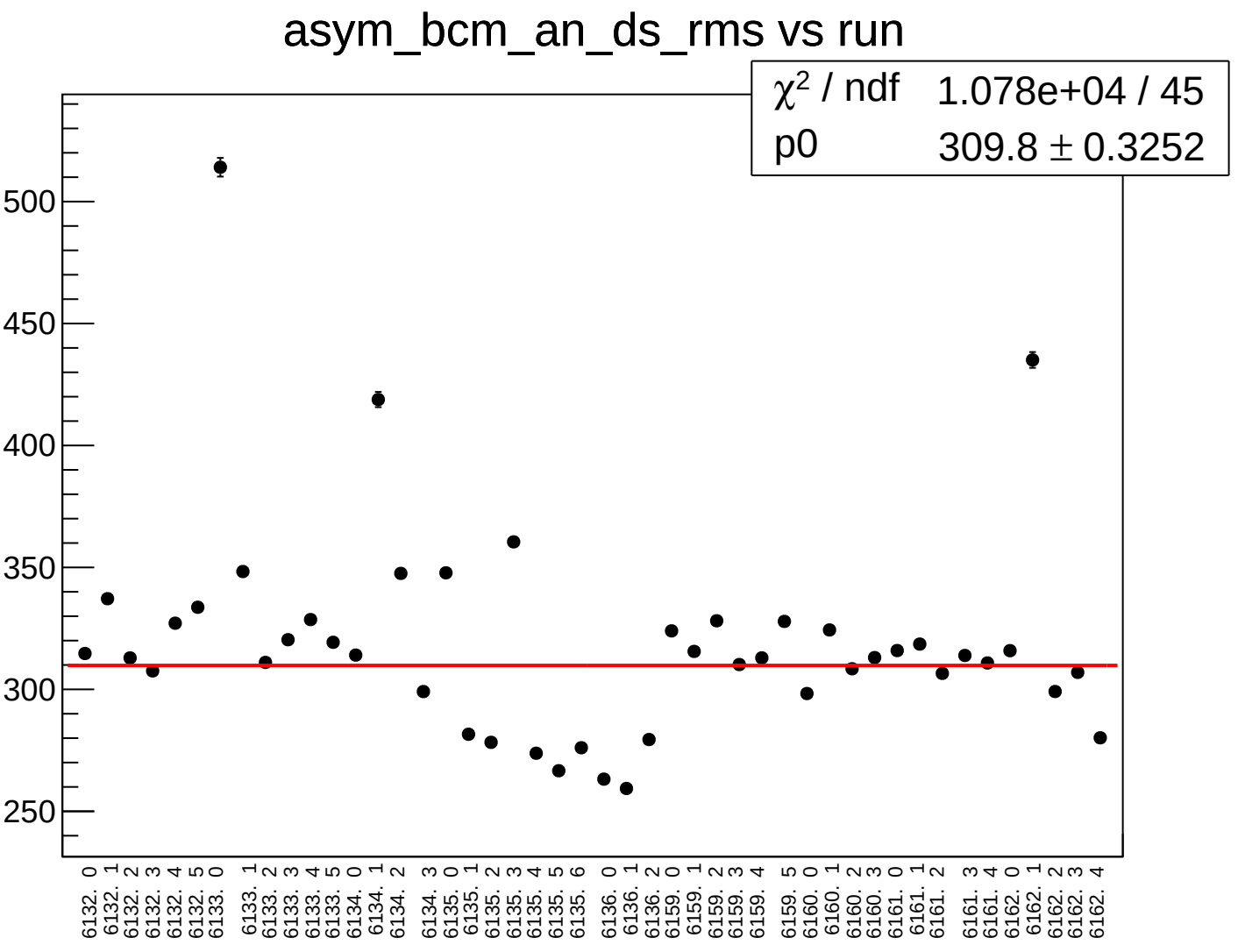

asym_bcm_target_rms vs run
χ² / ndf 1.086e+04 / 45
p0 311 ± 0.3265
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

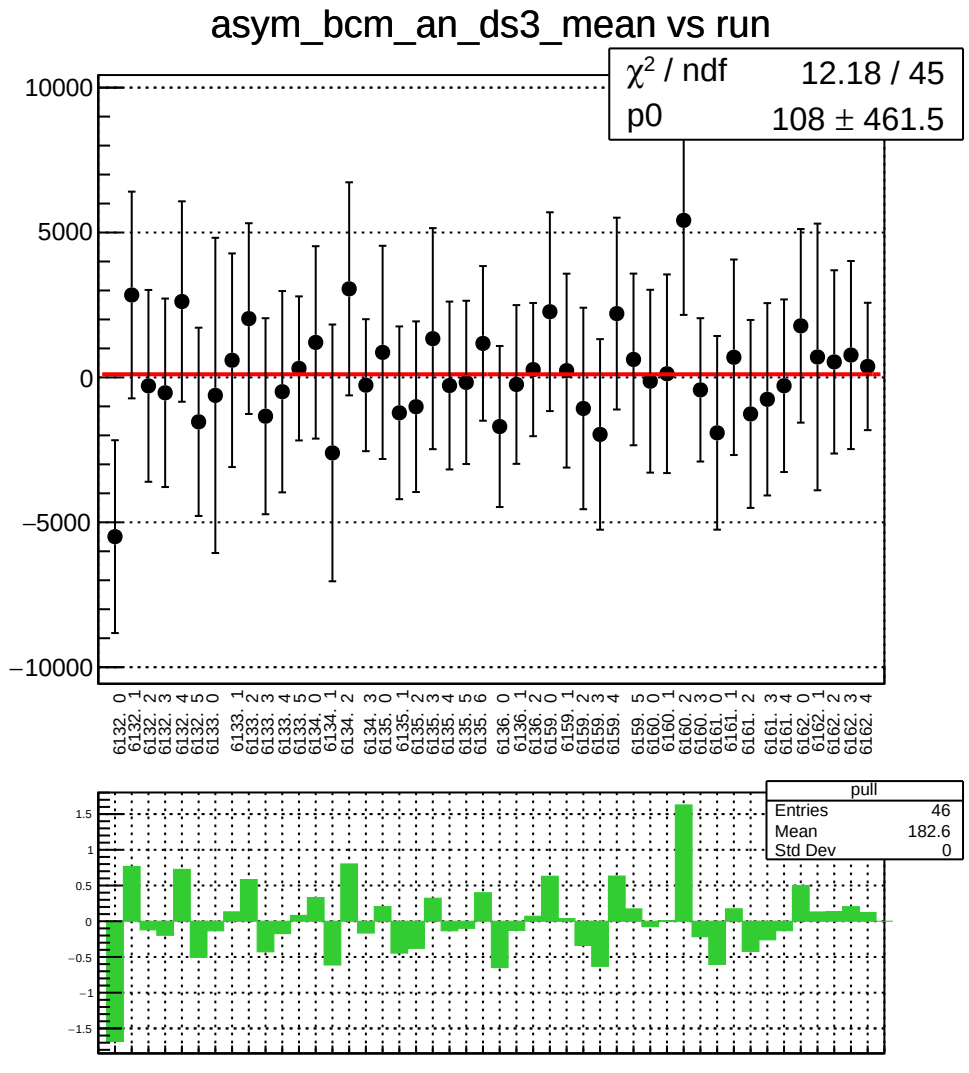

asym_bcm_an_diff_mean vs run
χ² / ndf 43 / 45
p0 −99.5 ± 40.87
pull
Entries 46
Mean 52.39
Std Dev 0
pull1D
Entries 46
Mean −0.01601
Std Dev 0.9667

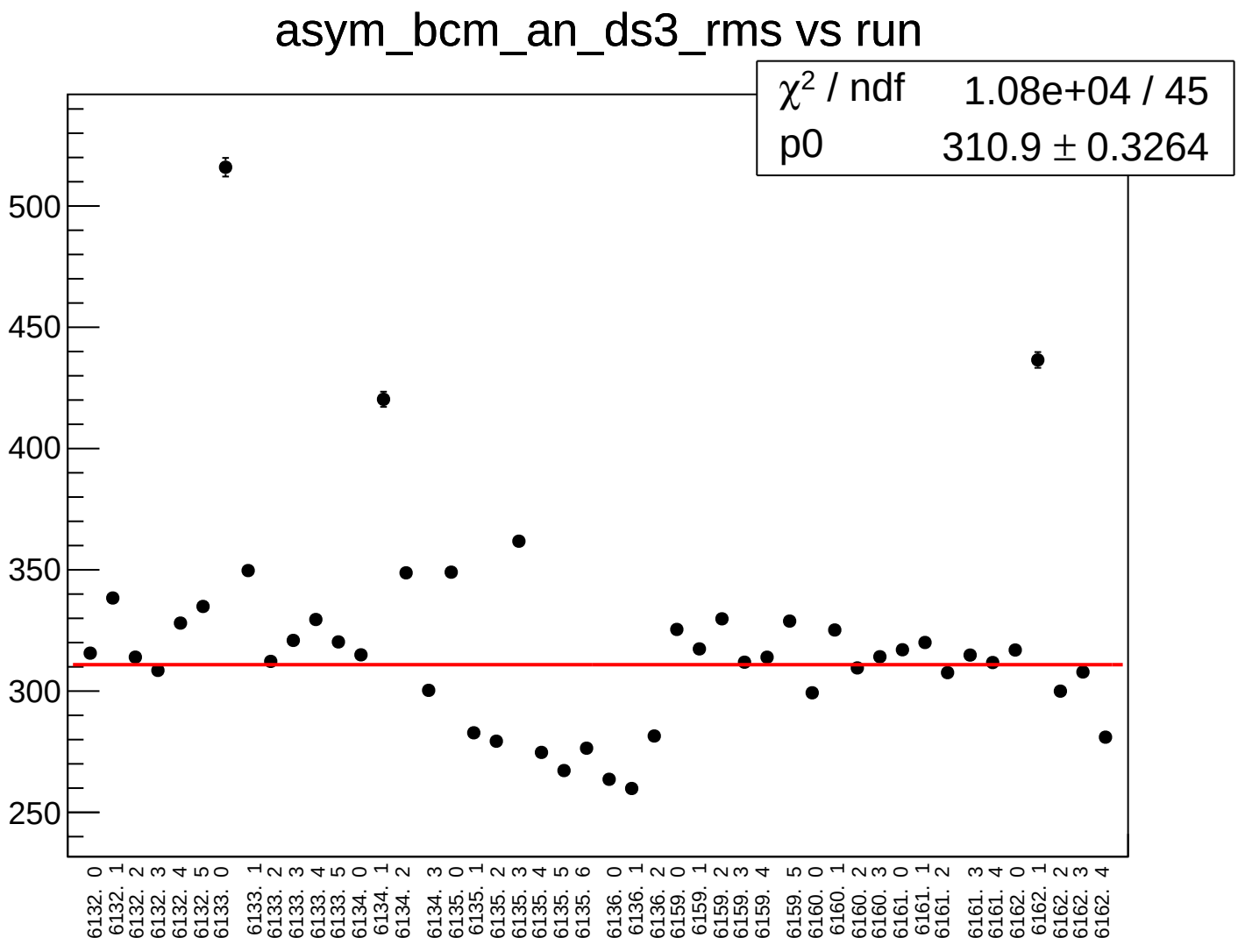

asym_bcm_an_diff_rms vs run
χ² / ndf 3.02e+04 / 45
p0 2.723e+04 ± 28.9
45000
40000
35000
30000
25000
20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bcm_an_ds_mean vs run
χ² / ndf 12.21 / 45
p0 108.6 ± 459.9
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 165.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 46
Mean 0.00571
Std Dev 0.5152
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 1.078e+04 / 45
p0 309.8 ± 0.3252
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bcm_an_ds3_mean vs run
χ² / ndf 12.18 / 45
p0 108 ± 461.5
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 182.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.0056
Std Dev 0.5145
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 1.08e+04 / 45
p0 310.9 ± 0.3264
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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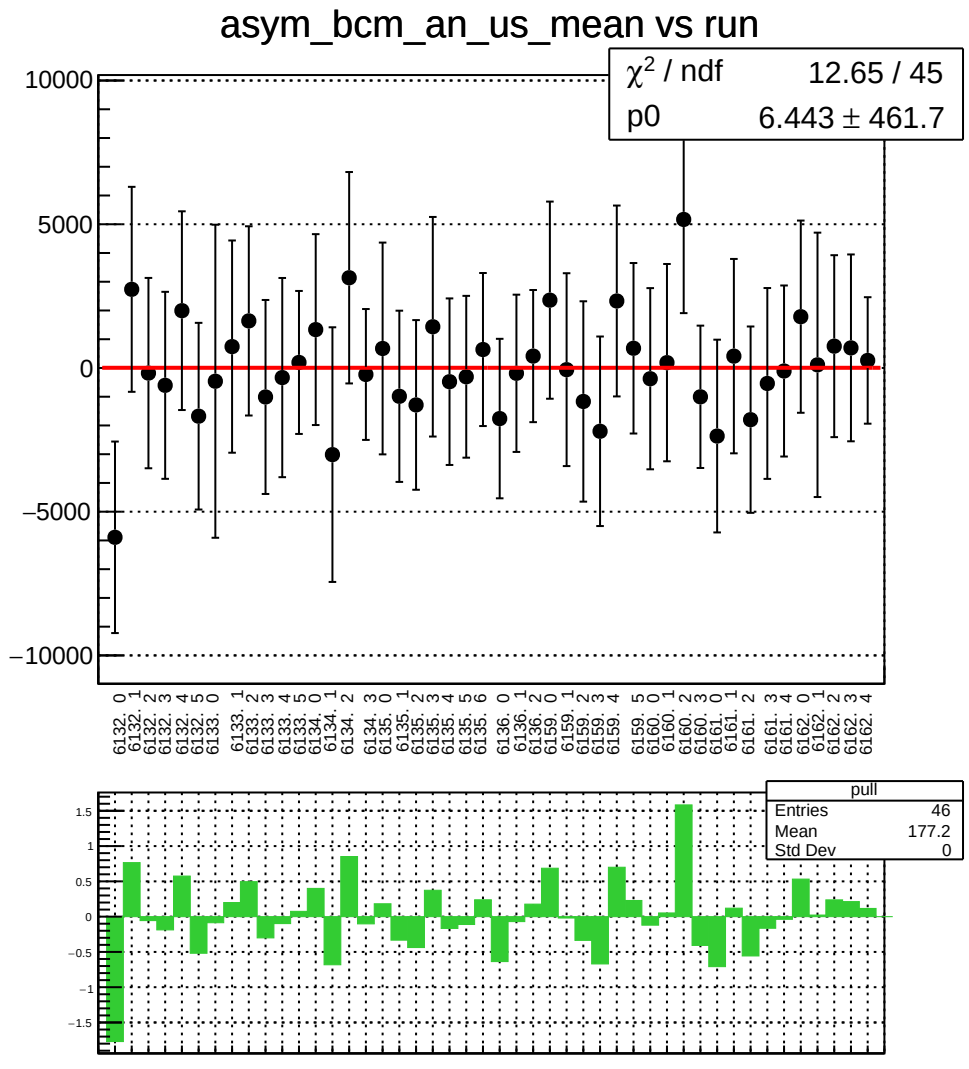
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bcm_an_us_mean vs run
χ² / ndf 12.65 / 45
p0 6.443 ± 461.7
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6134. 2
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
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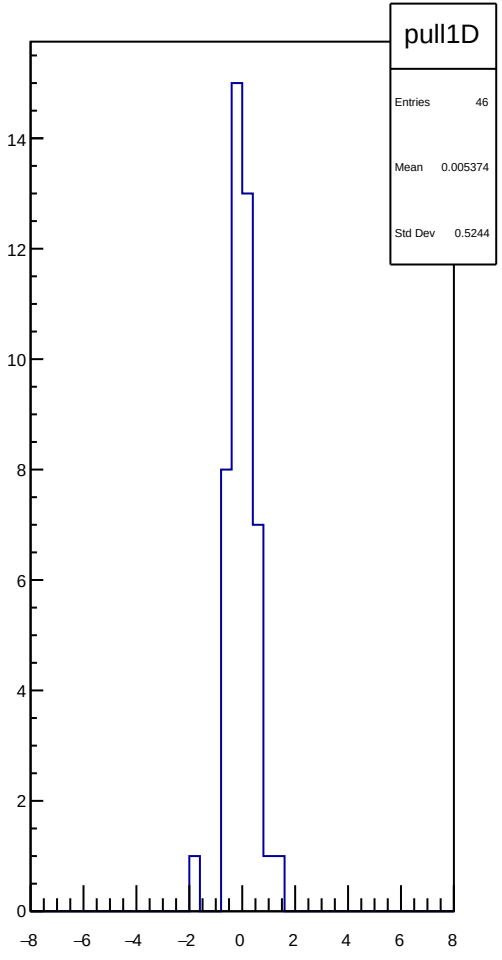
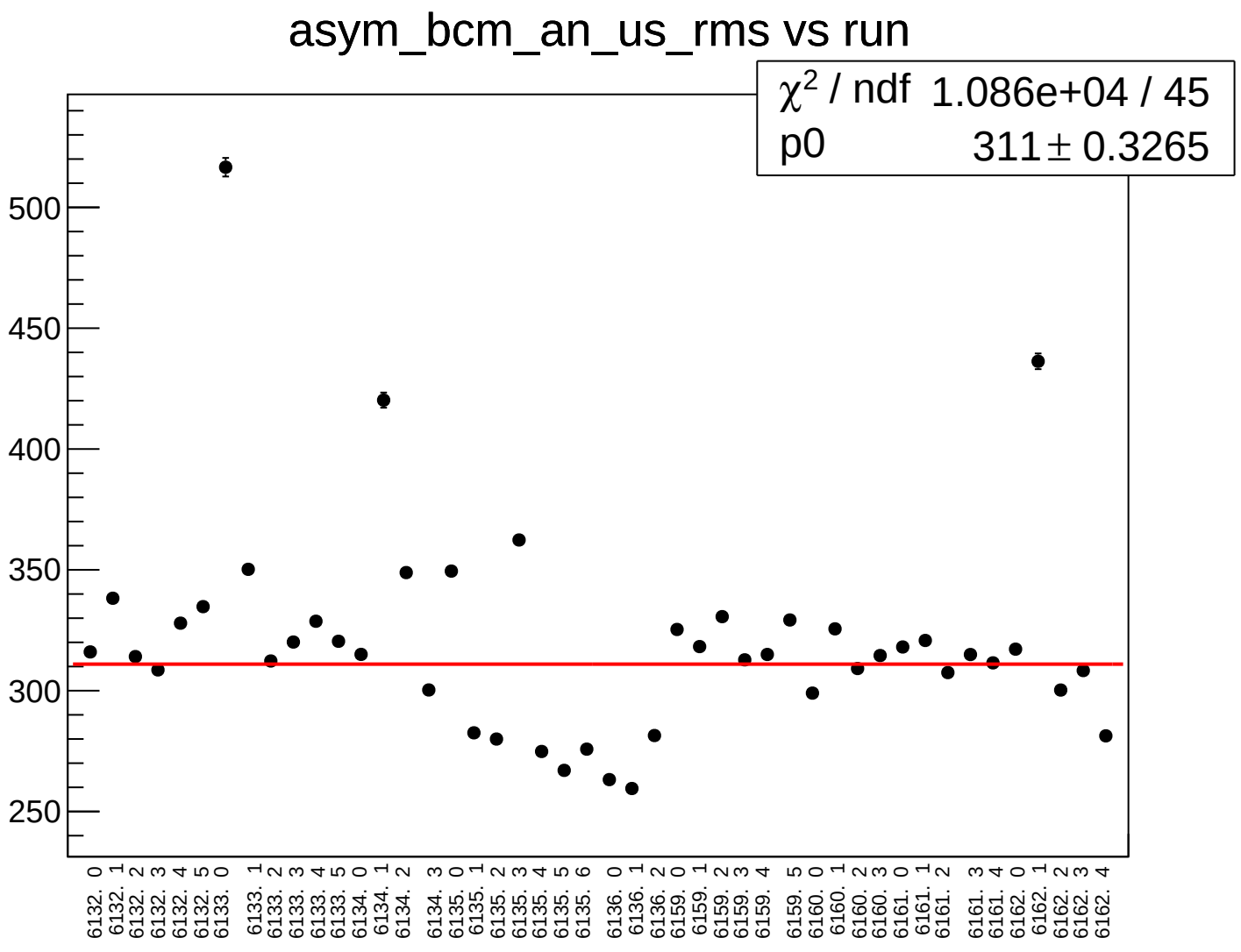
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 177.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 46
Mean 0.005374
Std Dev 0.5244
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 1.086e+04 / 45
p0 311 ± 0.3265
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6135. 4
6135. 5
6135. 6
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6136. 2
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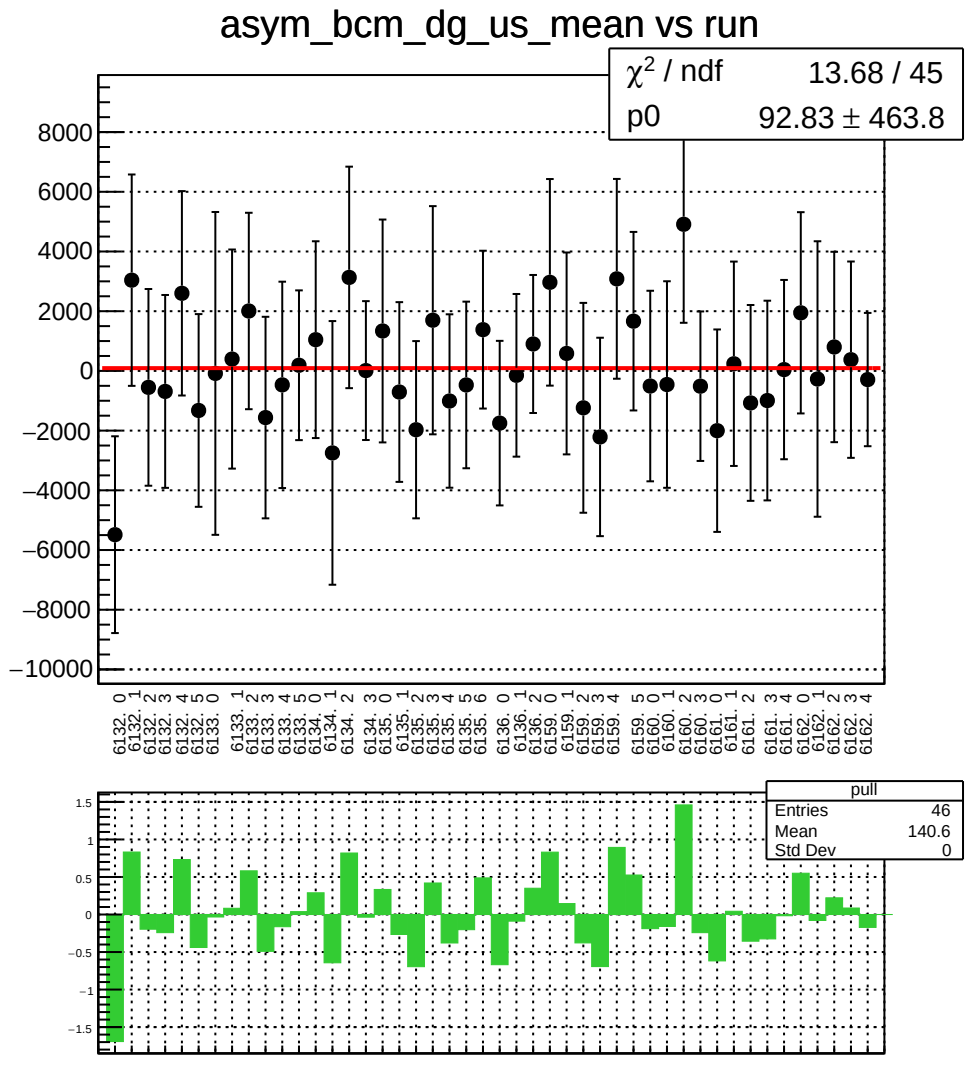
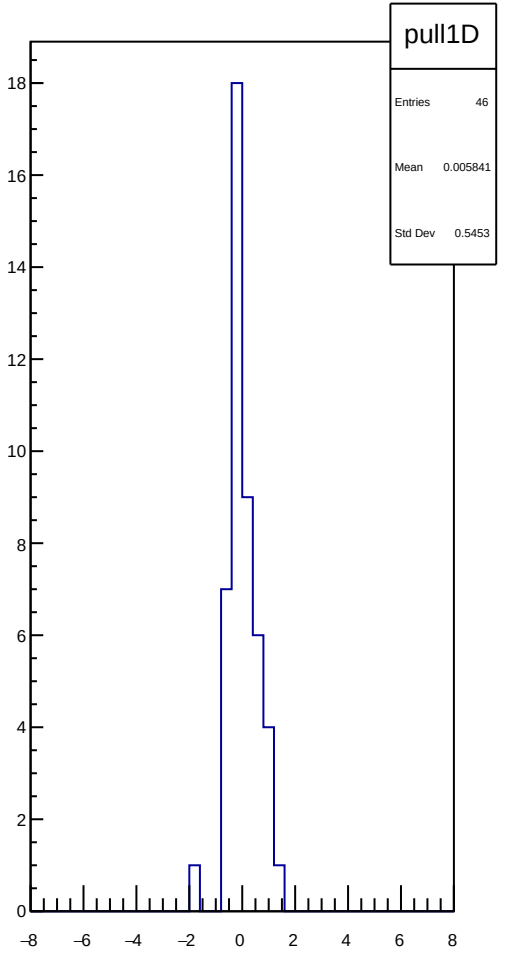
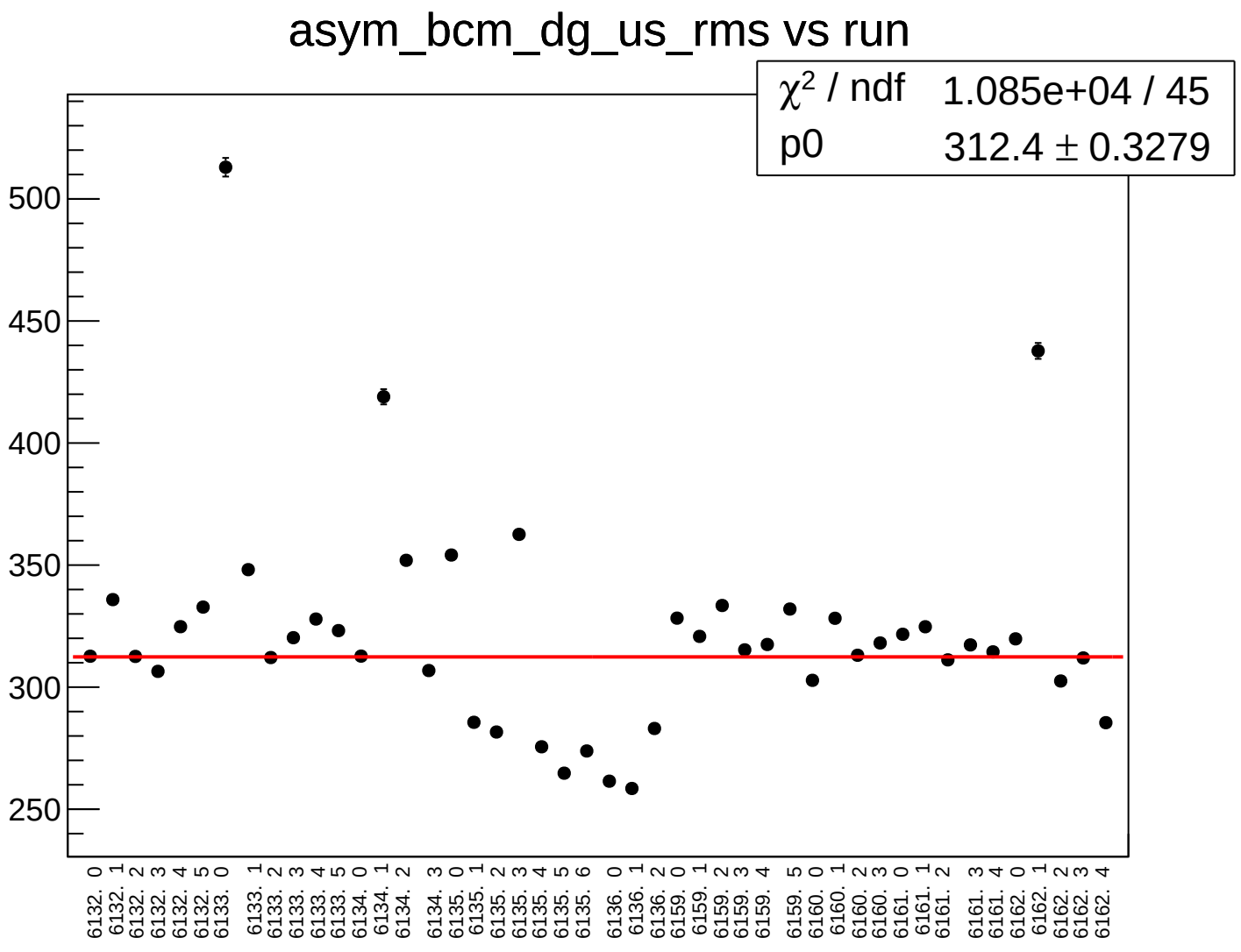
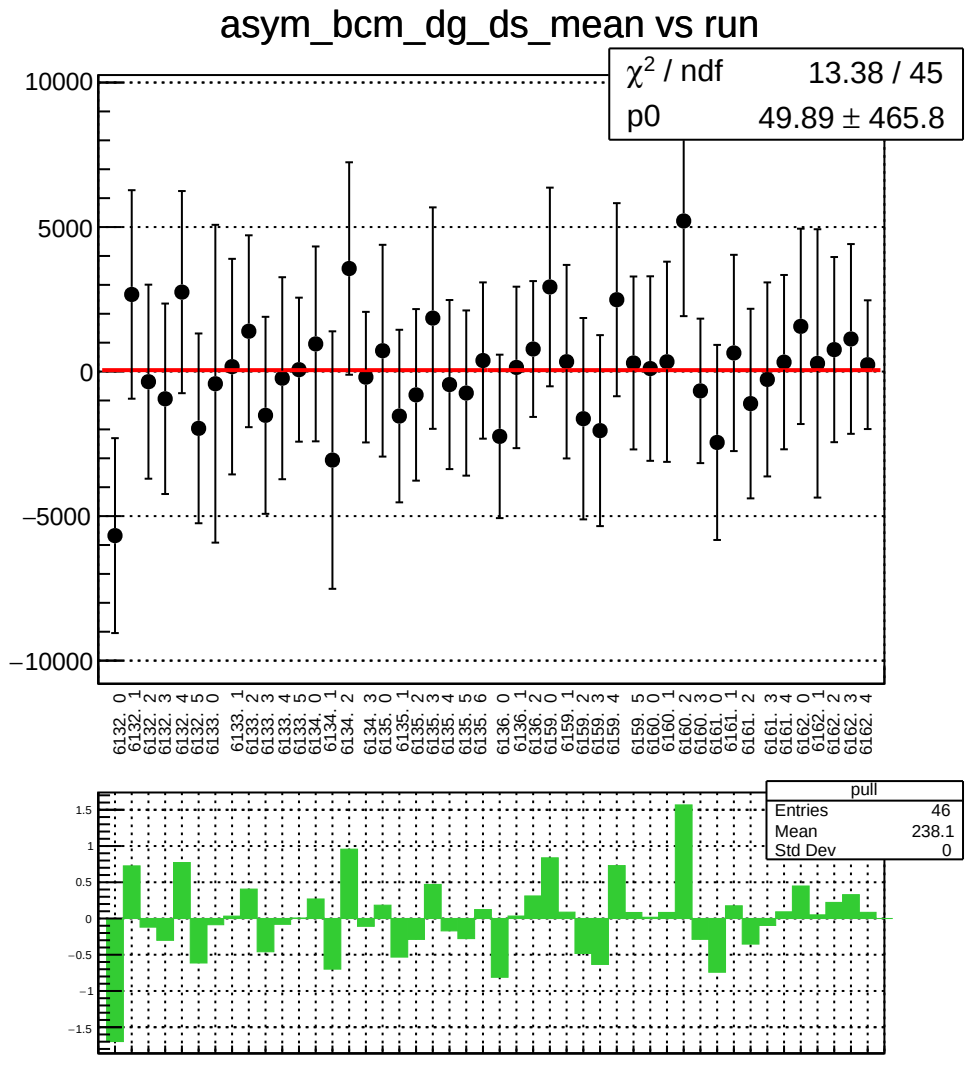
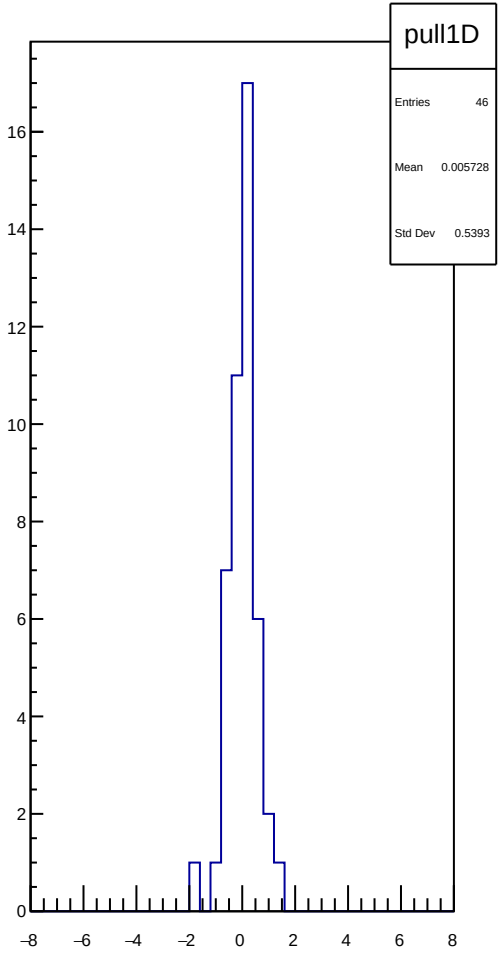
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

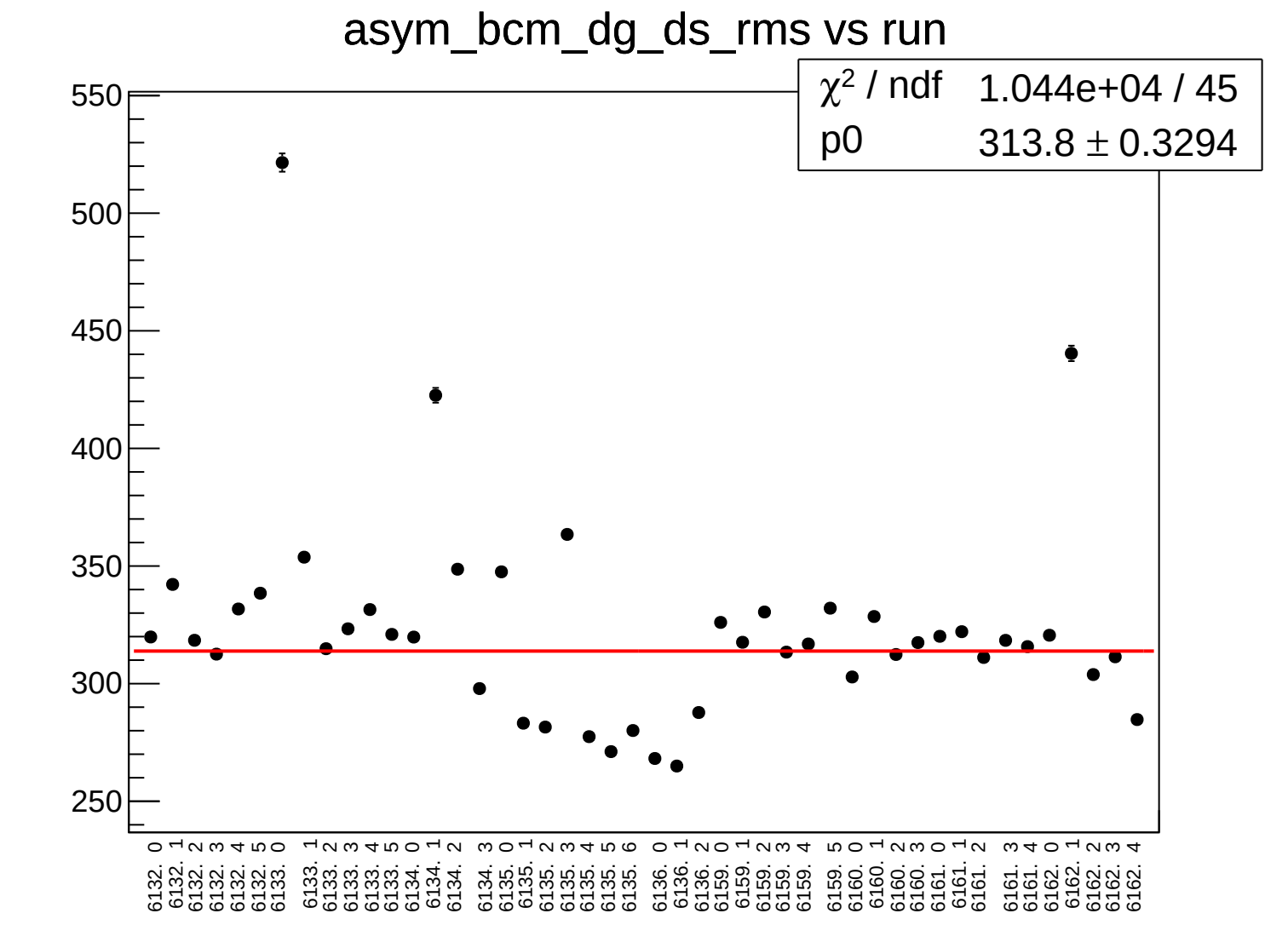

asym_bcm_dg_us_mean vs run
χ² / ndf 13.68 / 45
p0 92.83 ± 463.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 140.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

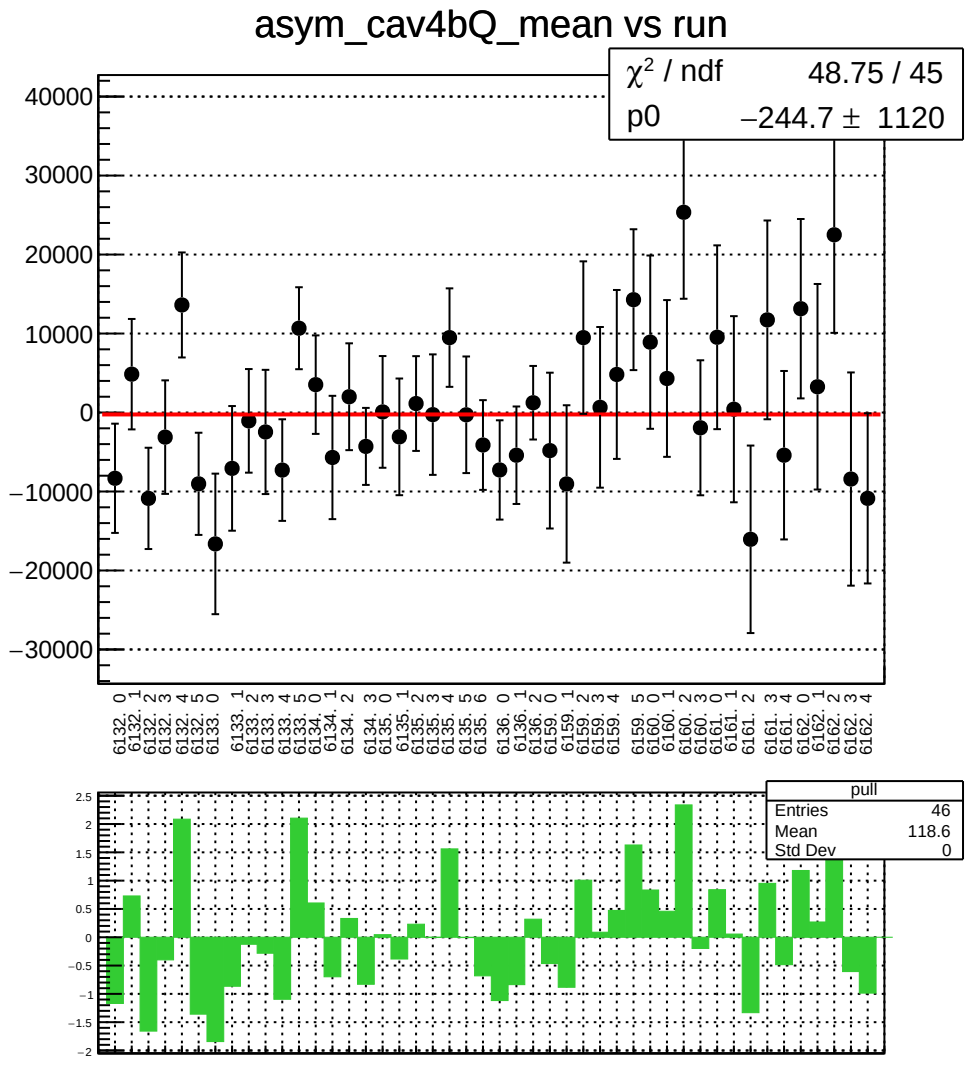

pull1D
Entries 46
Mean 0.005841
Std Dev 0.5453
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

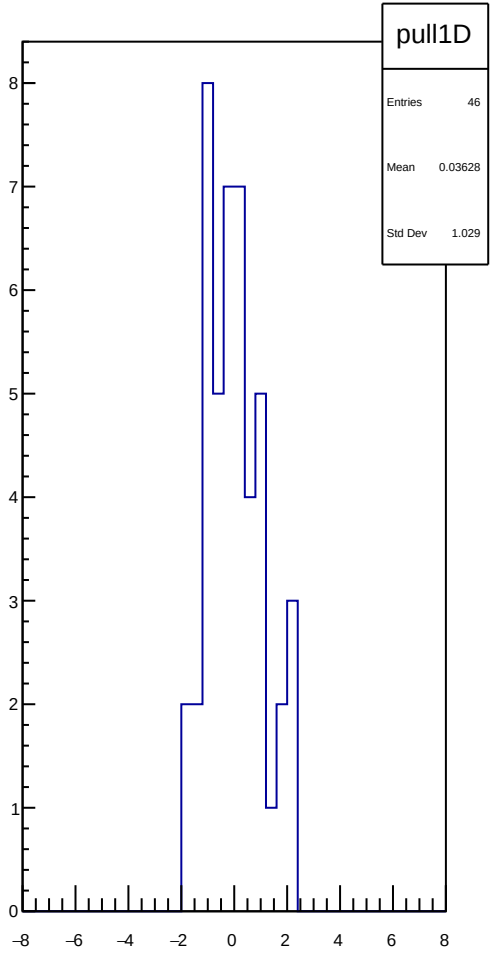

asym_bcm_dg_us_rms vs run
χ² / ndf 1.085e+04 / 45
p0 312.4 ± 0.3279
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

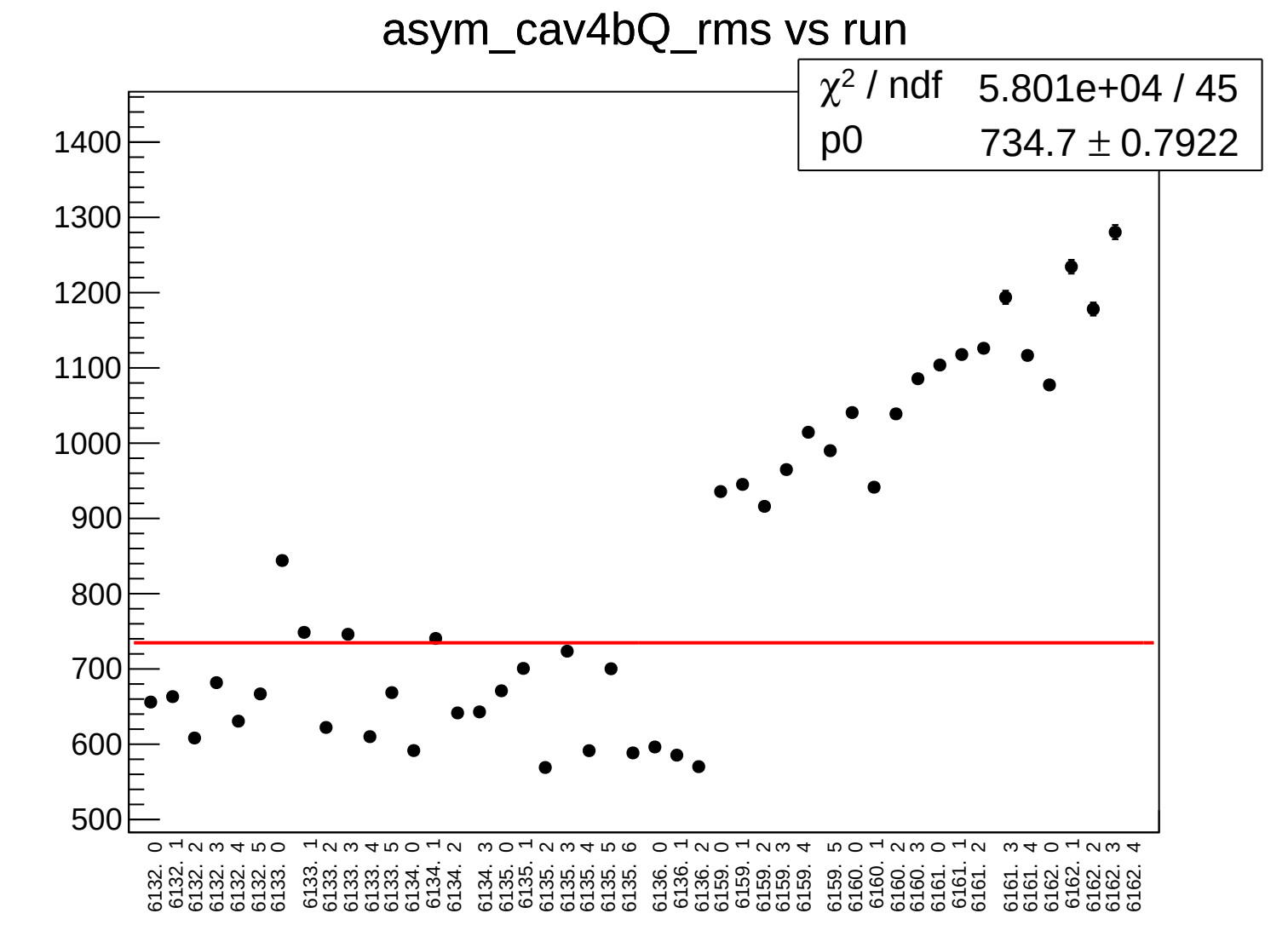

asym_bcm_dg_ds_mean vs run
χ² / ndf 13.38 / 45
p0 49.89 ± 465.8
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 238.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

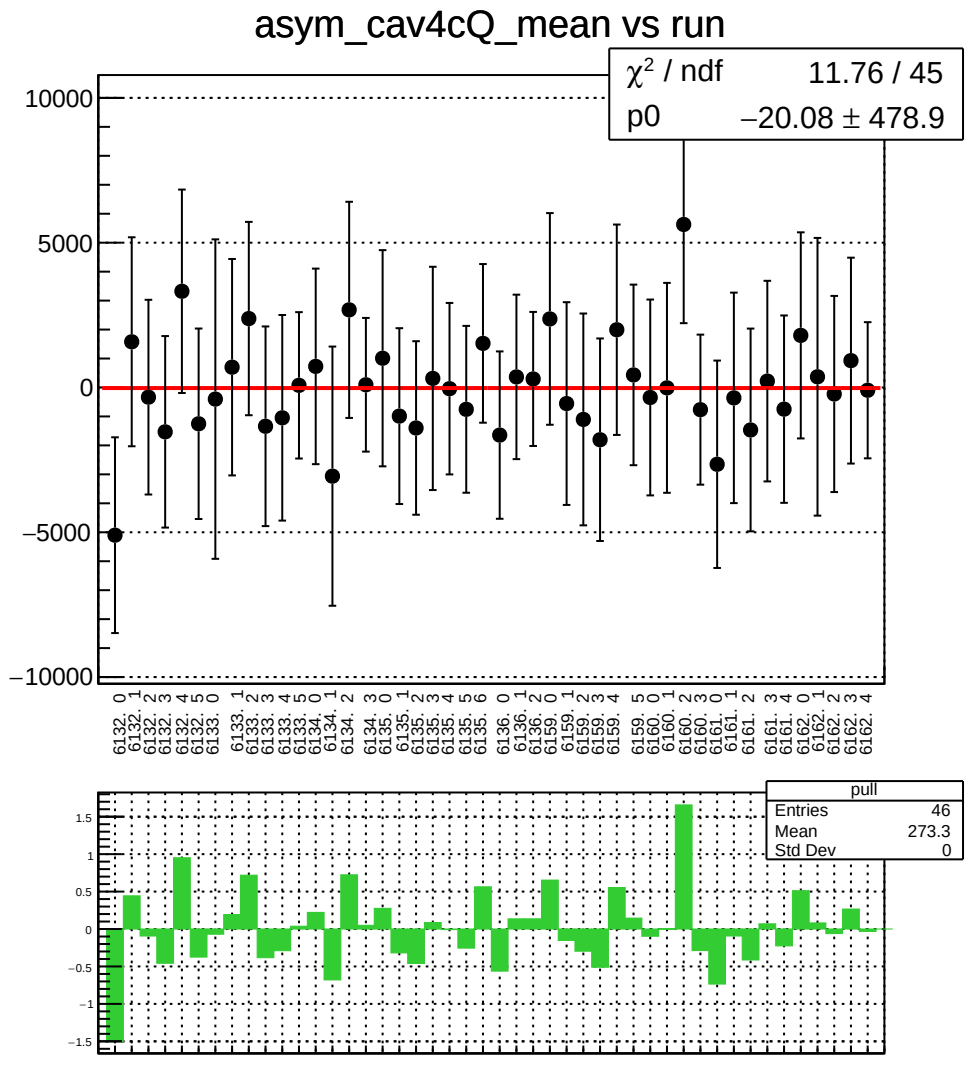

pull1D
Entries 46
Mean 0.005728
Std Dev 0.5393
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

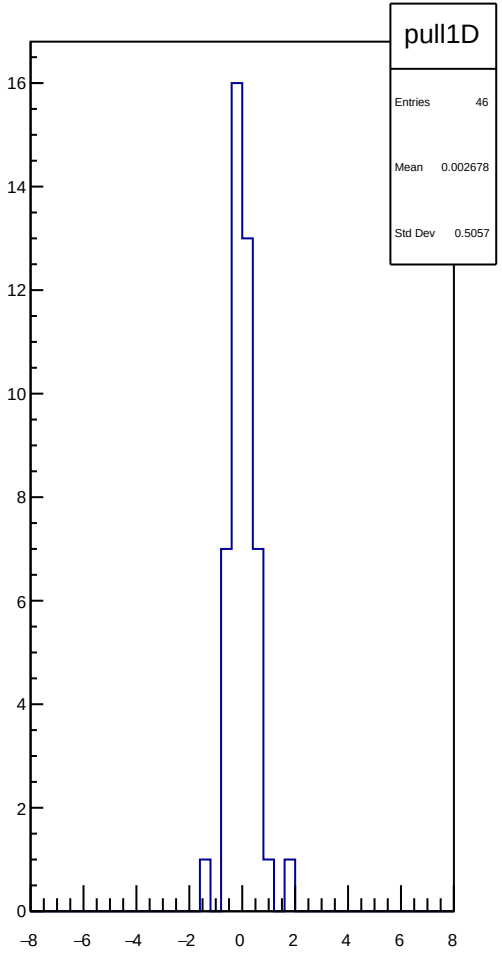

asym_bcm_dg_ds_rms vs run
χ² / ndf 1.044e+04 / 45
p0 313.8 ± 0.3294
550
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

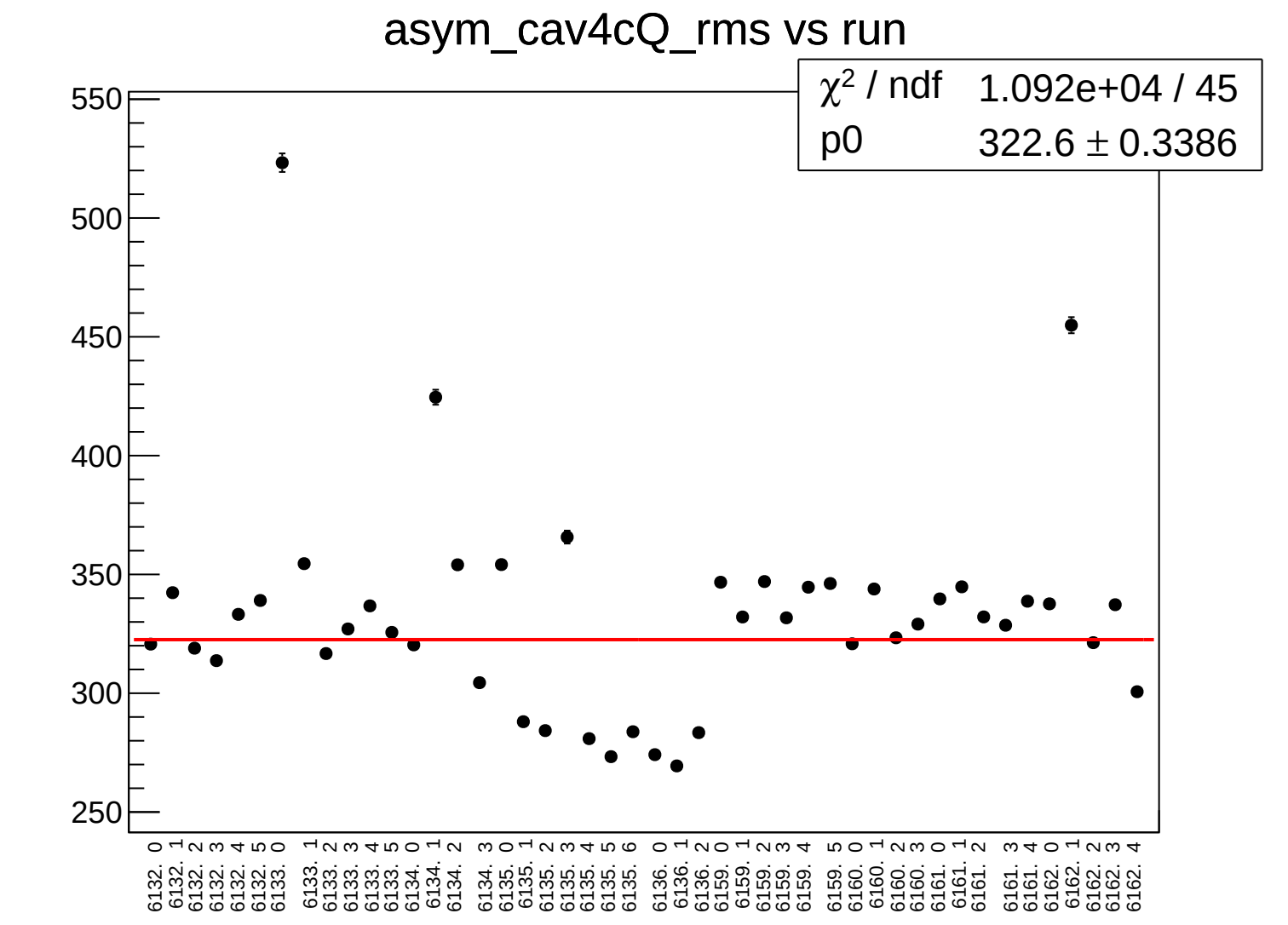

asym_cav4bQ_mean vs run
χ² / ndf 48.75 / 45
p0 −244.7 ± 1120
40000
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 118.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

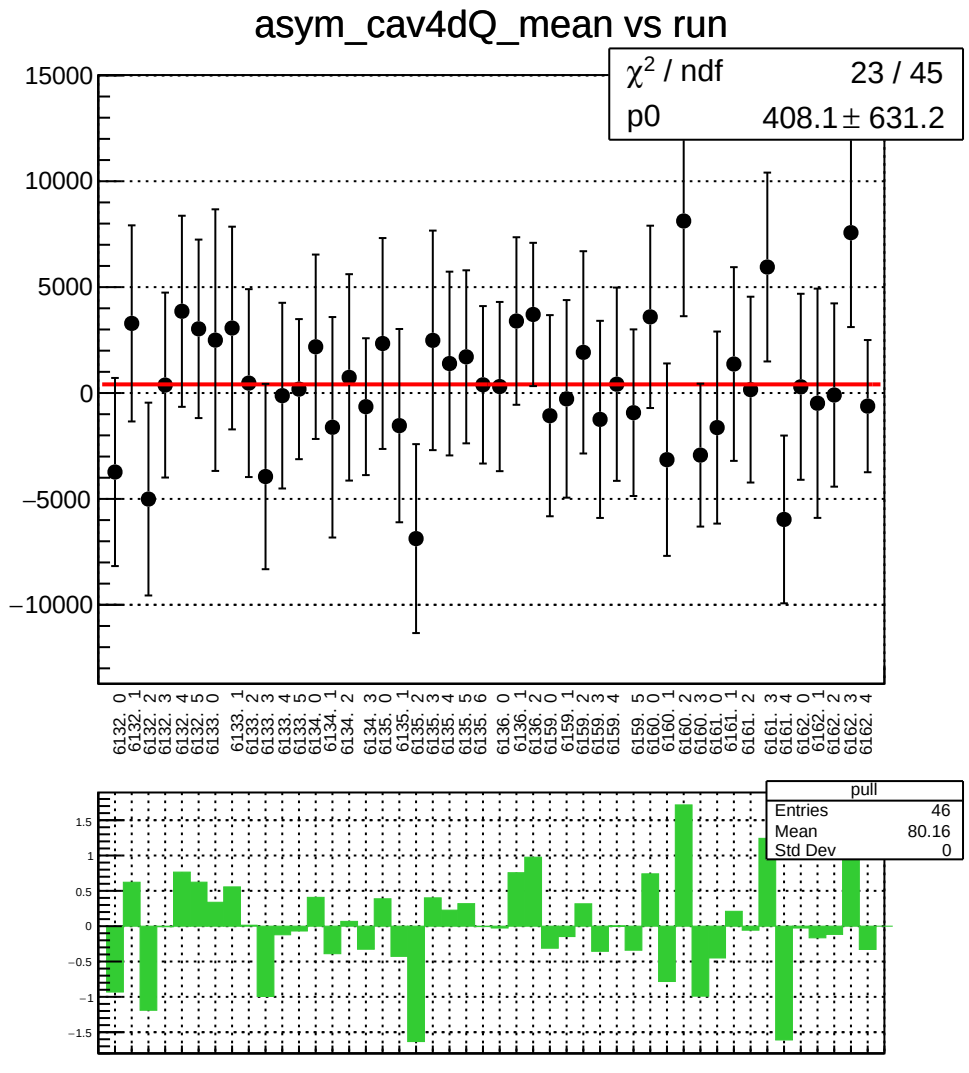

pull1D
Entries 46
Mean 0.03628
Std Dev 1.029
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

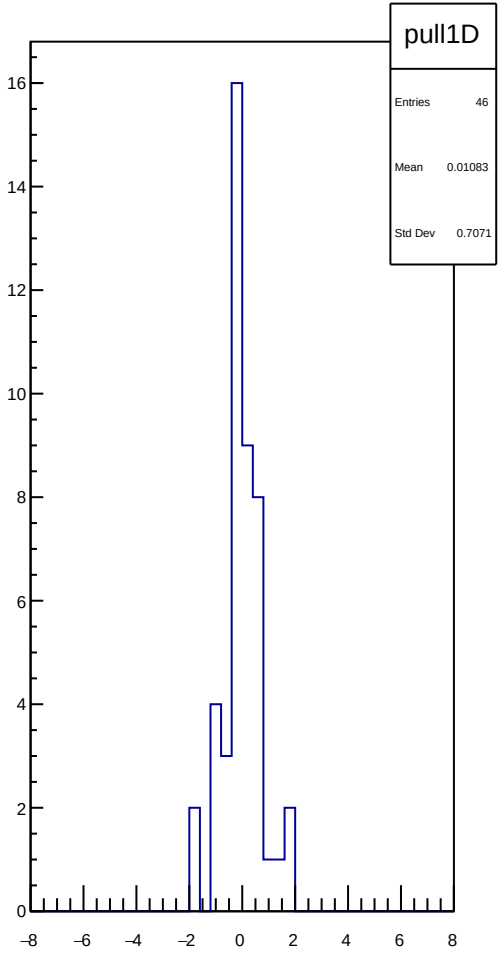

asym_cav4bQ_rms vs run
χ² / ndf 5.801e+04 / 45
p0 734.7 ± 0.7922
1400
1300
1200
1100
1000
900
800
700
600
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_cav4cQ_mean vs run
χ² / ndf 11.76 / 45
p0 −20.08 ± 478.9
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 273.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 46
Mean 0.002678
Std Dev 0.5057
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 1.092e+04 / 45
p0 322.6 ± 0.3386
550
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_cav4dQ_mean vs run
χ² / ndf 23 / 45
p0 408.1 ± 631.2
15000
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 80.16
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 46
Mean 0.01083
Std Dev 0.7071
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14
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10
8
6
4
2
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−6
−4
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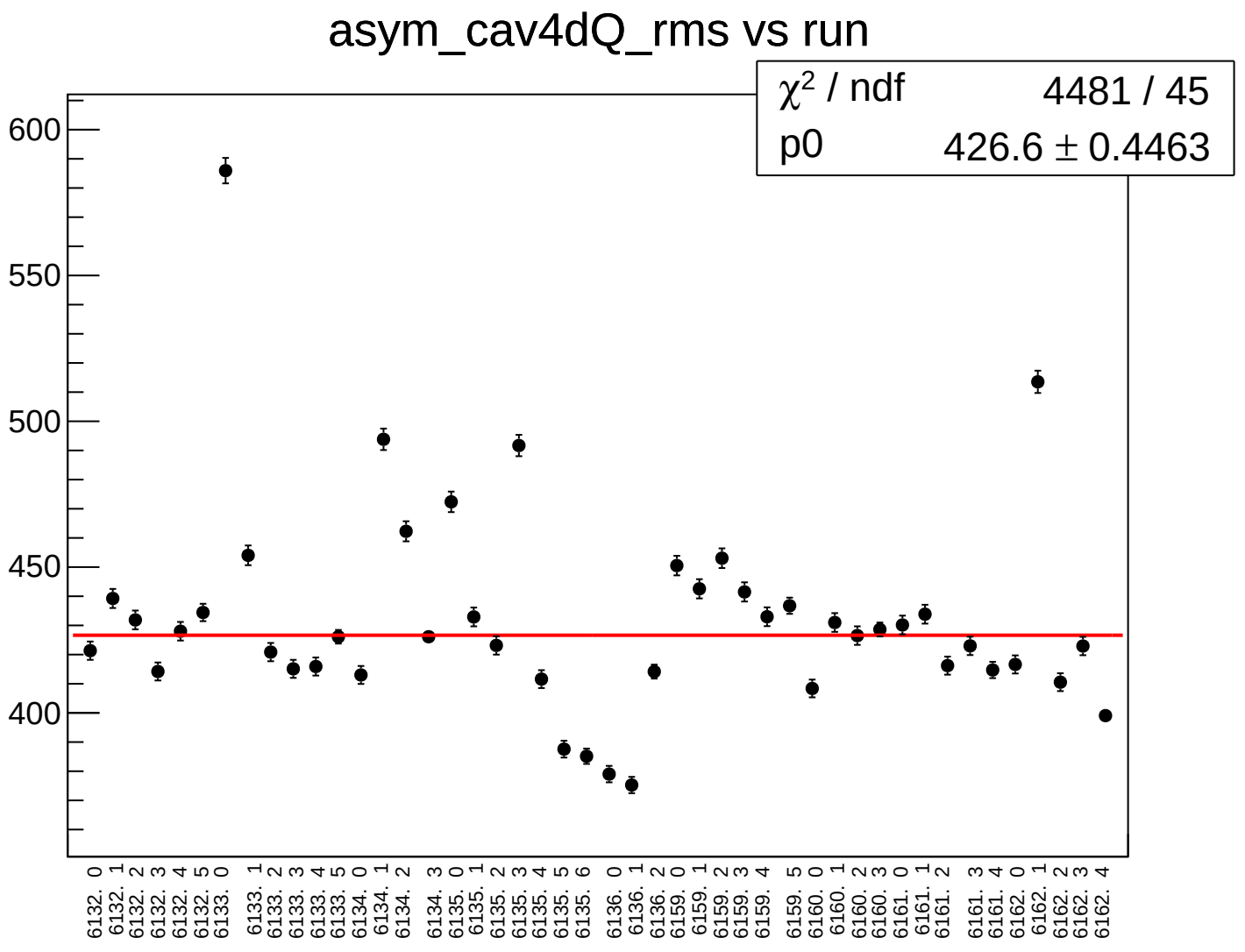
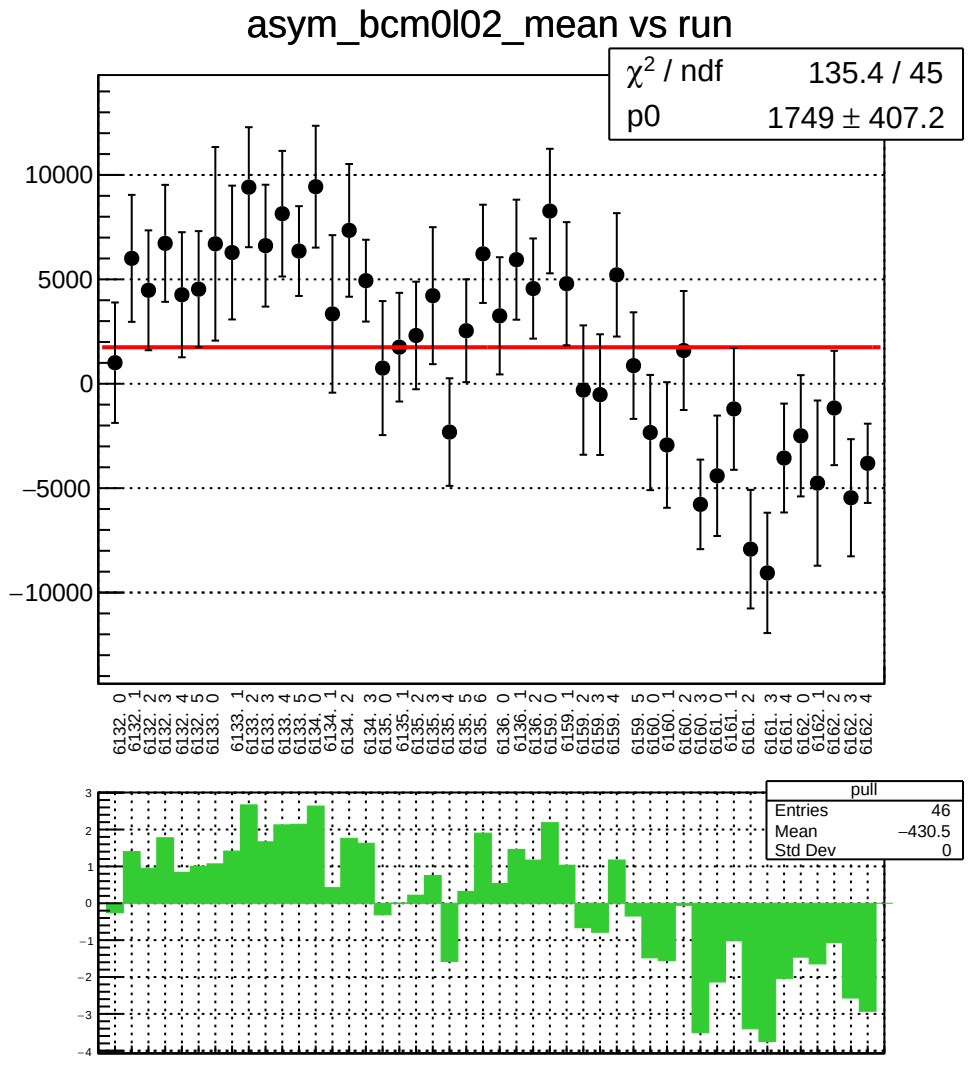
0
2
4
6
8


asym_cav4dQ_rms vs run
χ² / ndf 4481 / 45
p0 426.6 ± 0.4463
600
550
500
450
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bcm0l02_mean vs run
χ^2 / ndf 135.4 / 45
p0 1749 ± 407.2
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
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6133. 4
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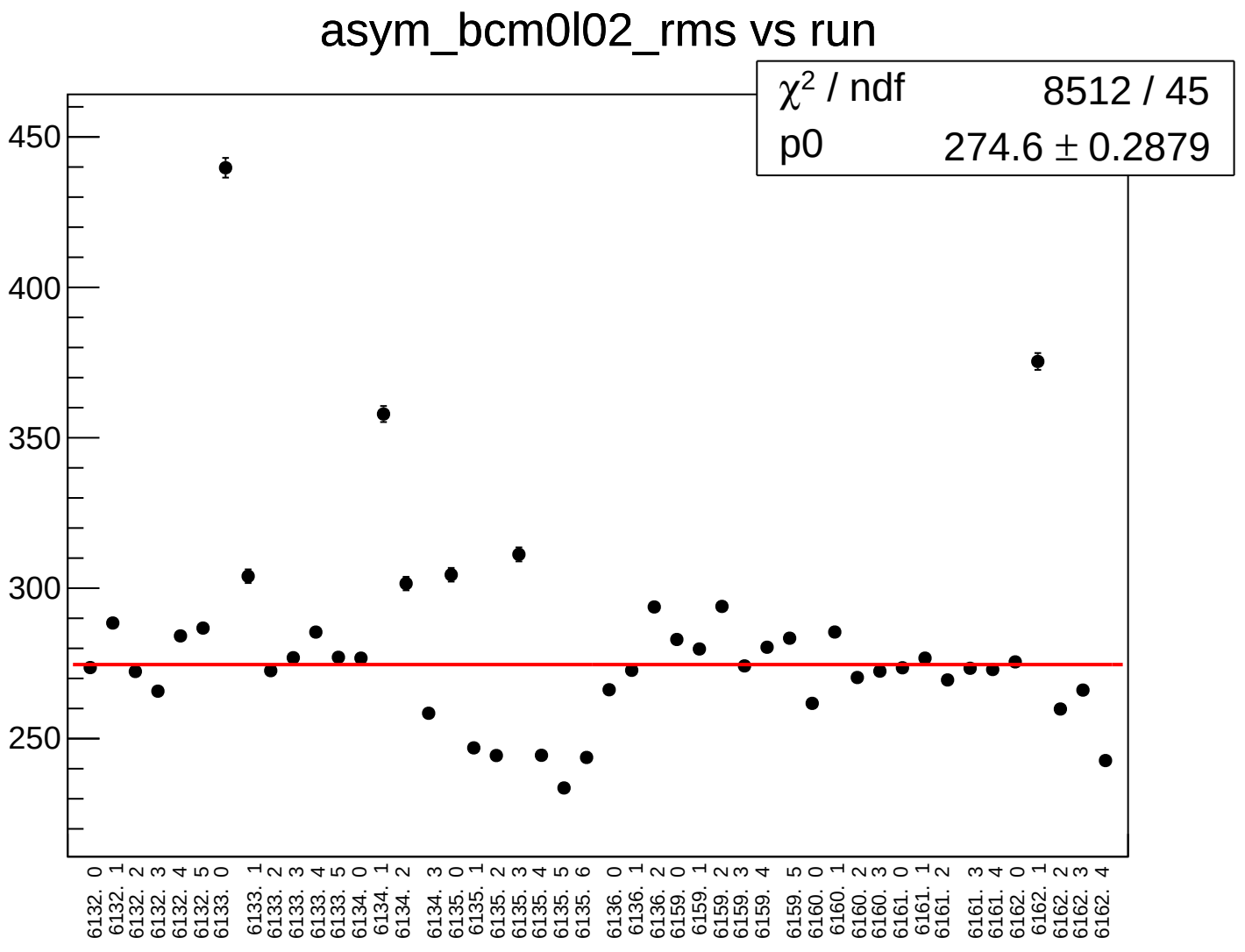
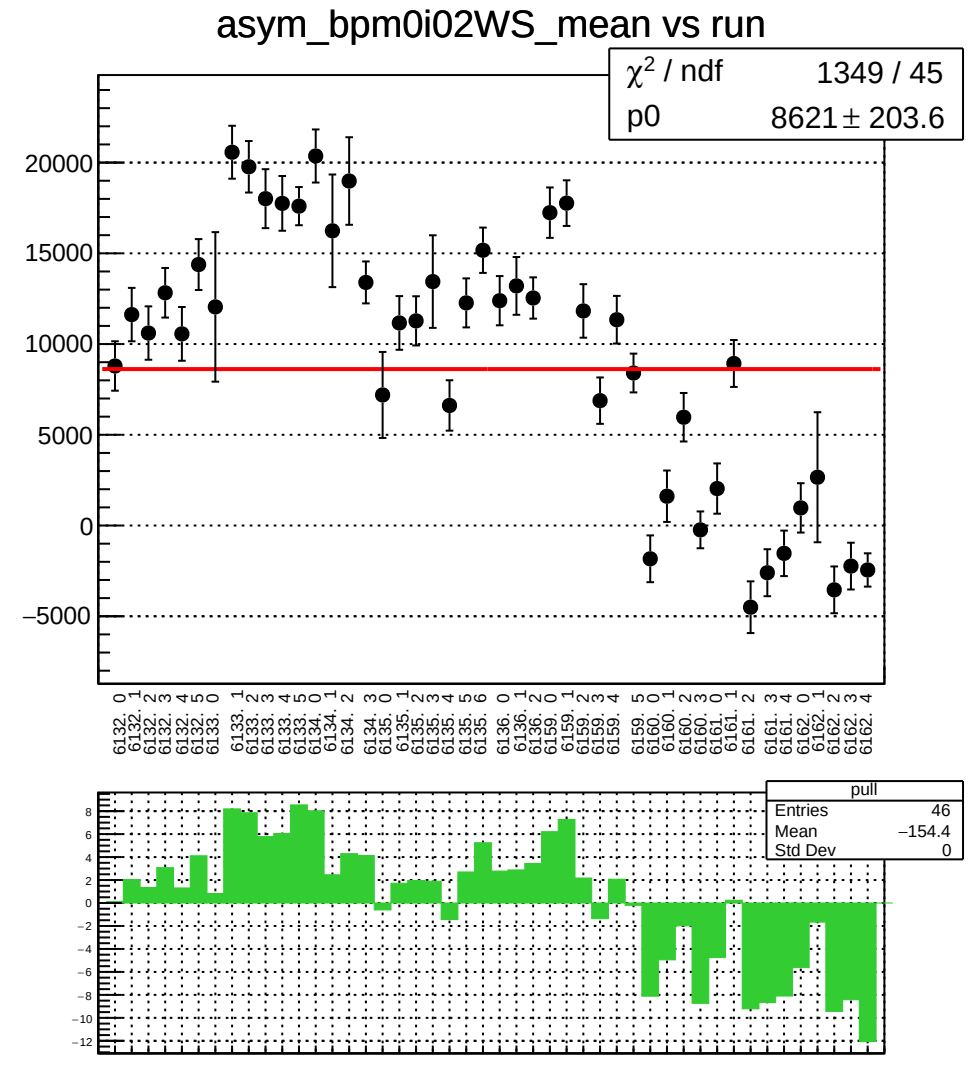
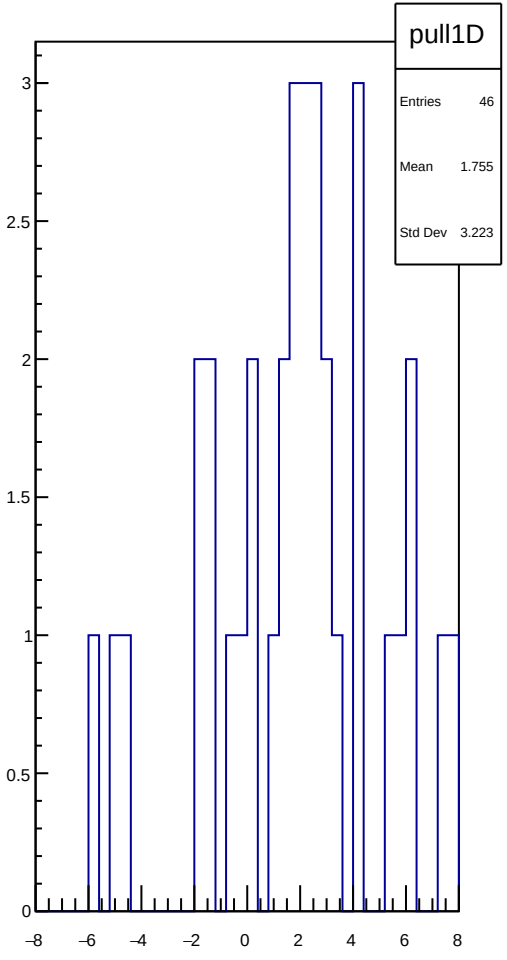
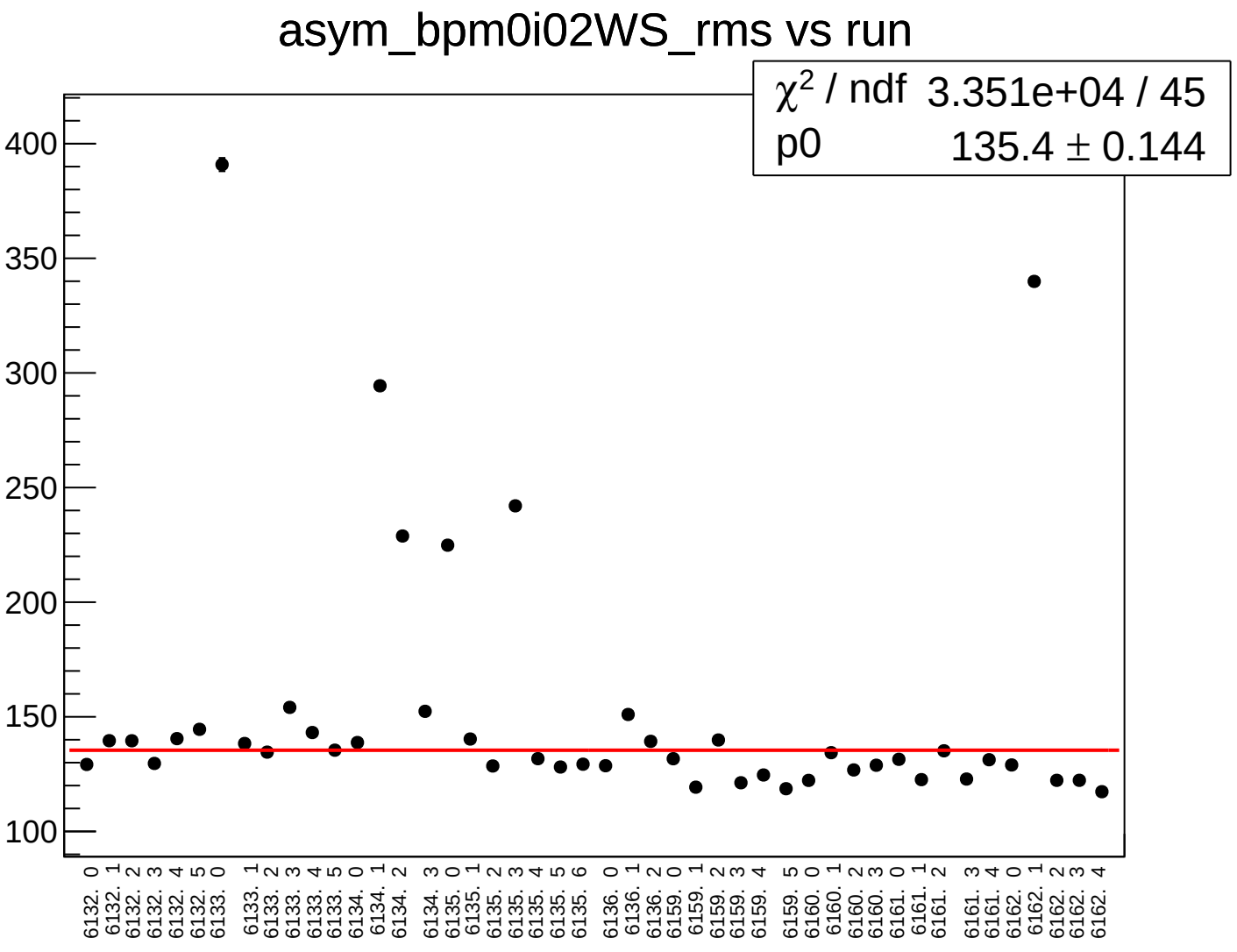
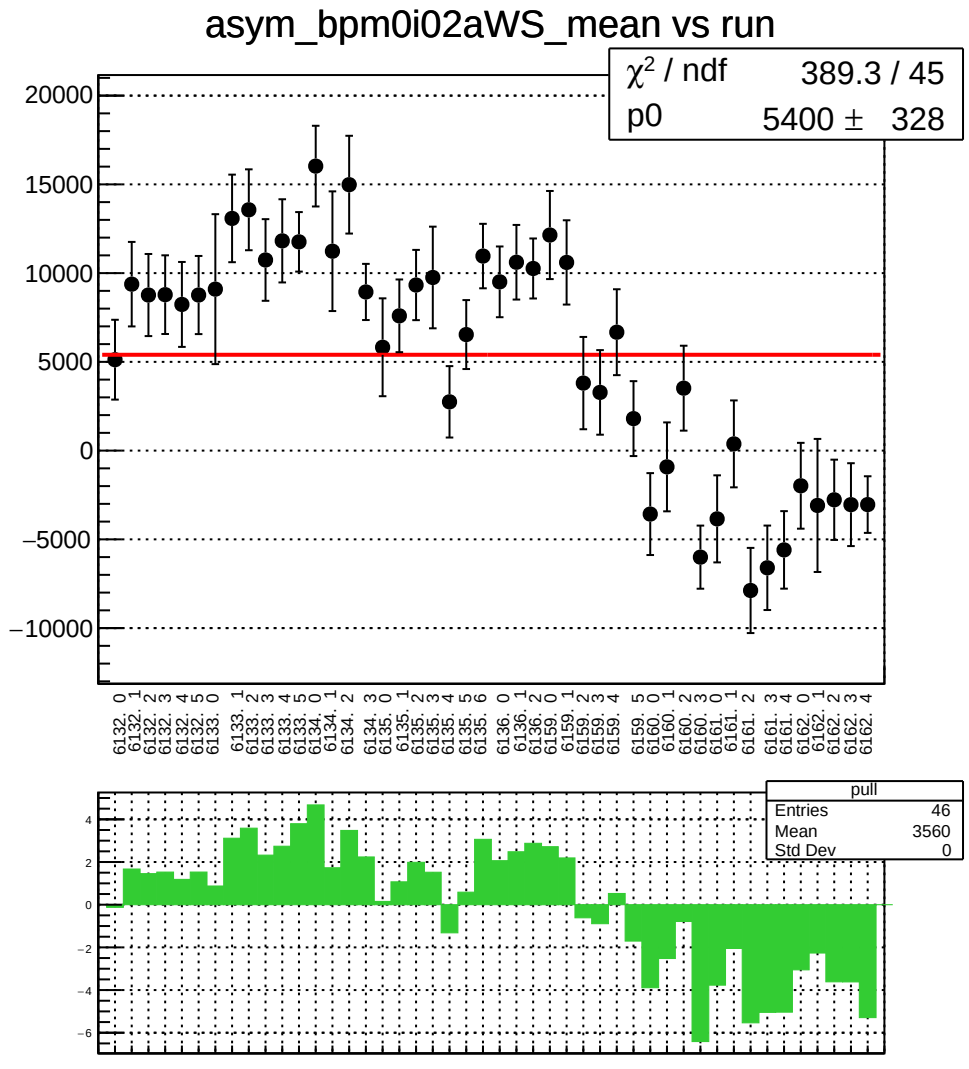
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −430.5
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 46
Mean 0.03726
Std Dev 1.715
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm0l02_rms vs run
χ² / ndf 8512 / 45
p0 274.6 ± 0.2879
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bpm0i02WS_mean vs run
χ² / ndf 1349 / 45
p0 8621 ± 203.6
20000
15000
10000
5000
0
−5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −154.4
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10
−12


pull1D
Entries 46
Mean 1.755
Std Dev 3.223
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i02WS_rms vs run
χ² / ndf 3.351e+04 / 45
p0 135.4 ± 0.144
400
350
300
250
200
150
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bpm0i02aWS_mean vs run
χ² / ndf 389.3 / 45
p0 5400 ± 328
20000
15000
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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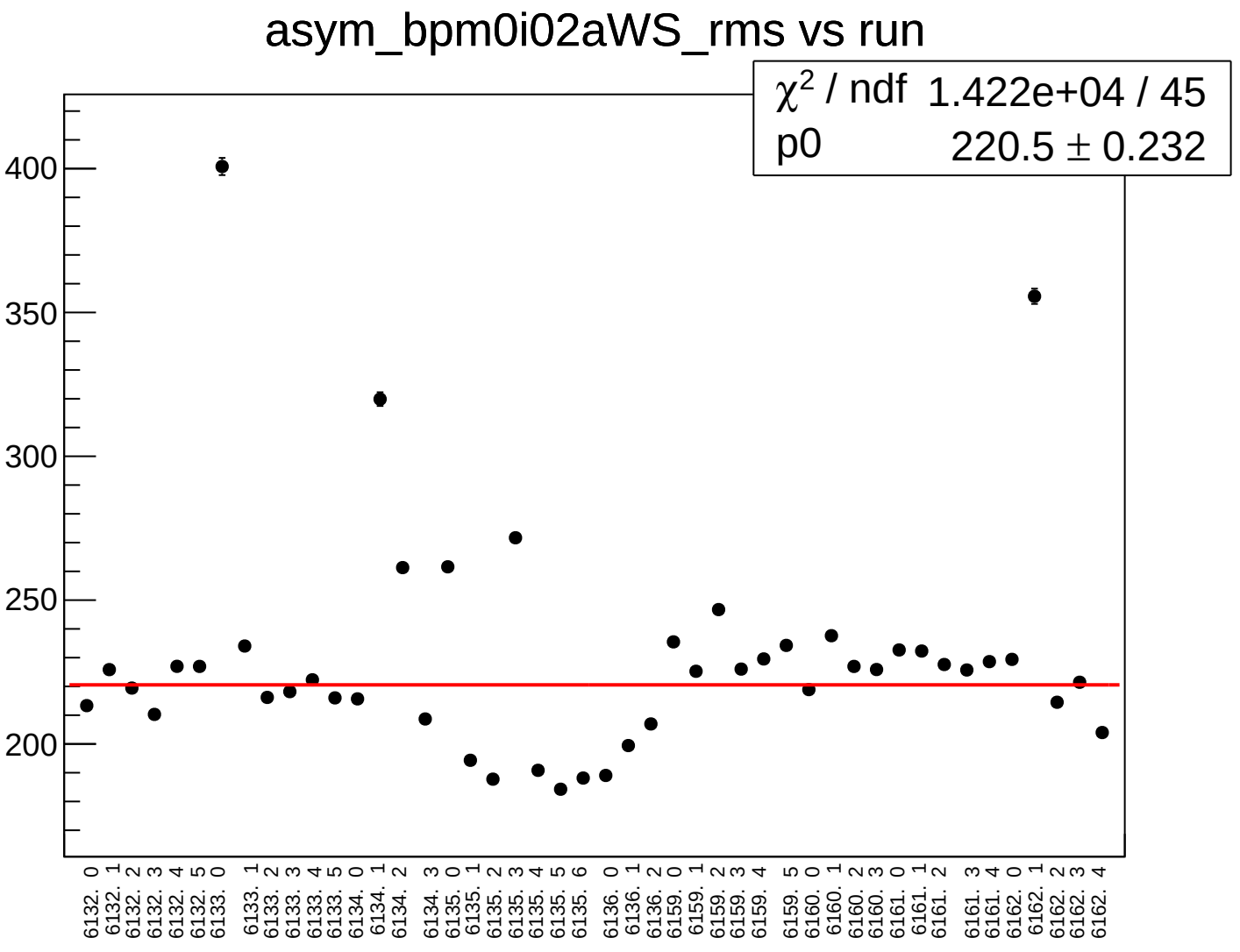
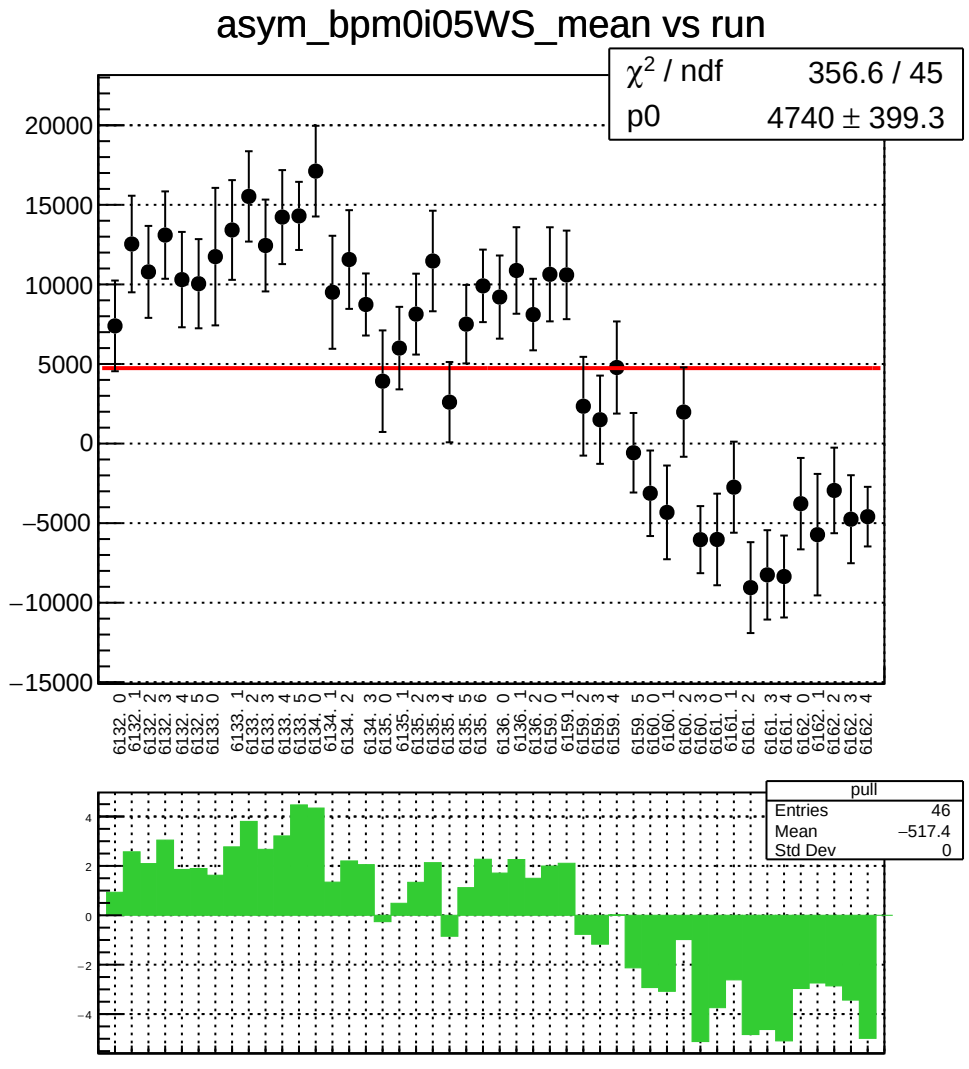
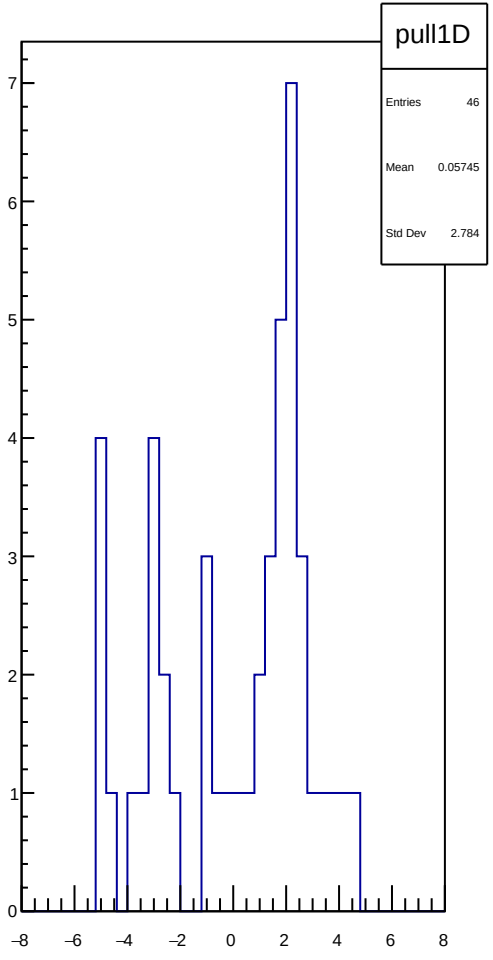
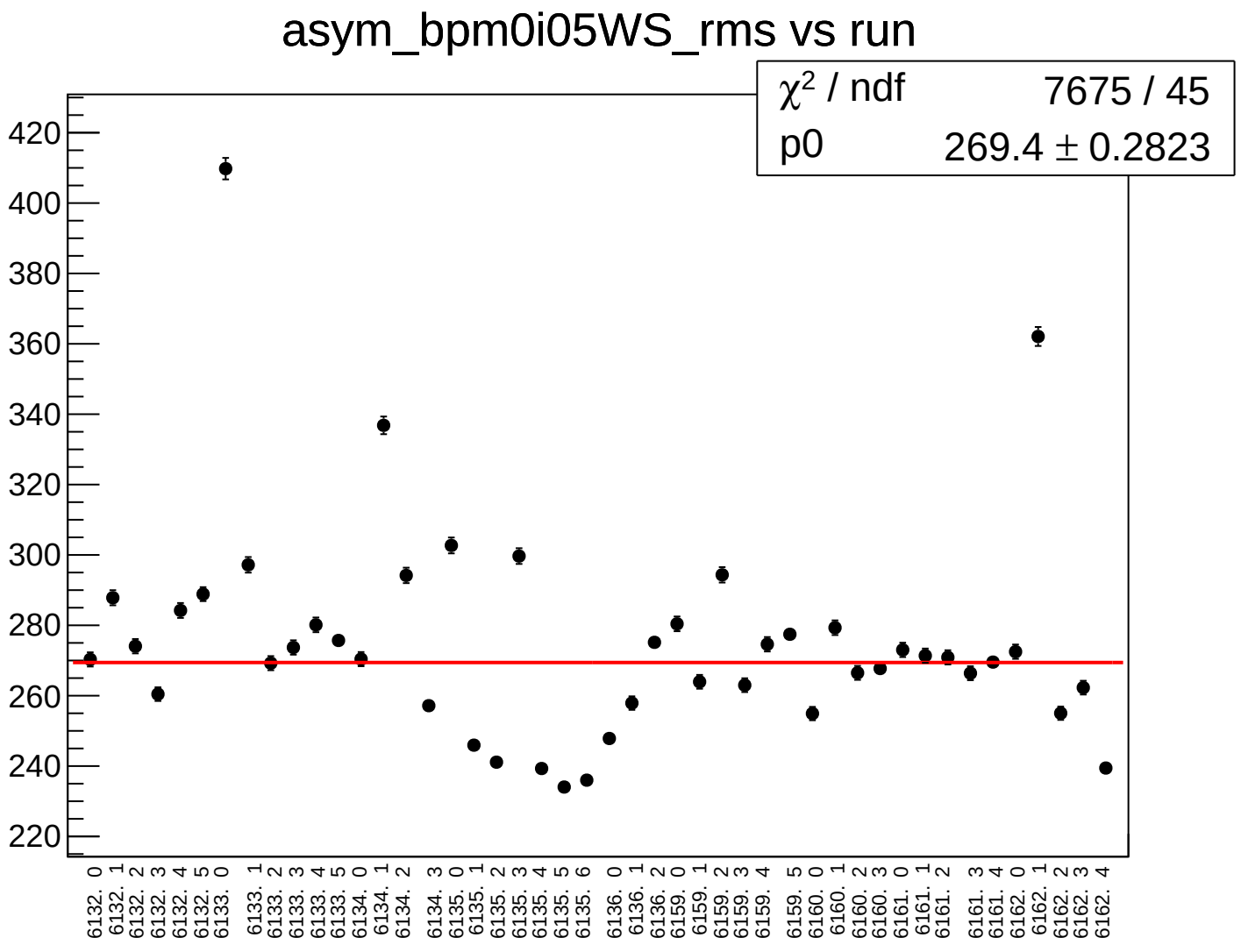
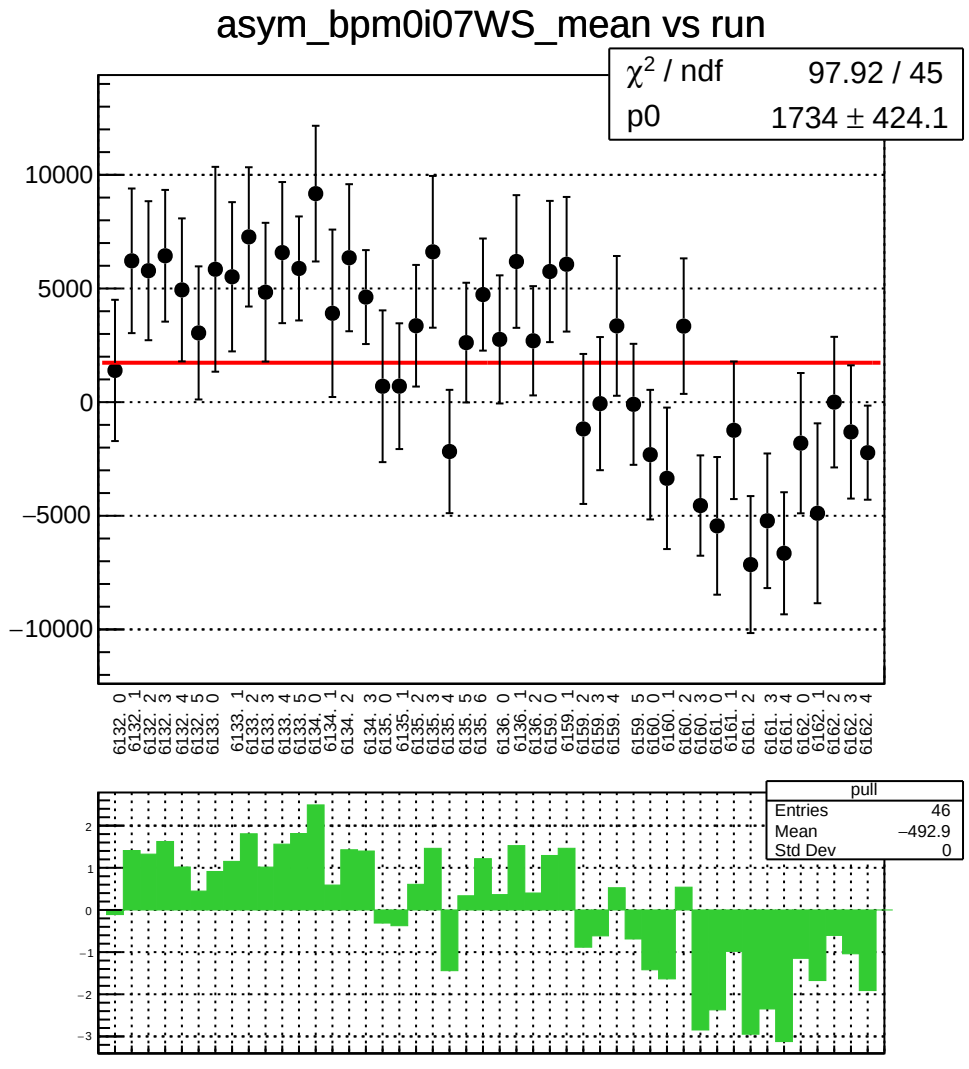
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 3560
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 46
Mean −0.008284
Std Dev 2.909
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

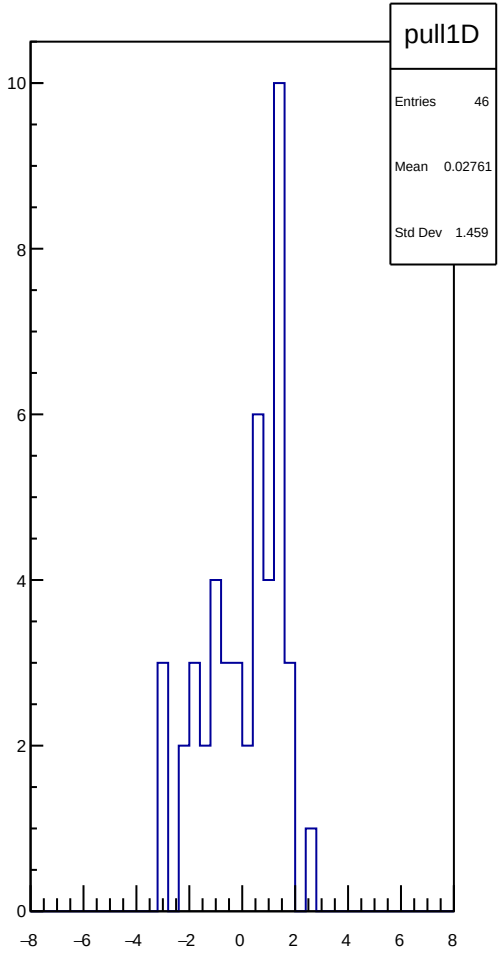

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.422e+04 / 45
p0 220.5 ± 0.232
400
350
300
250
200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

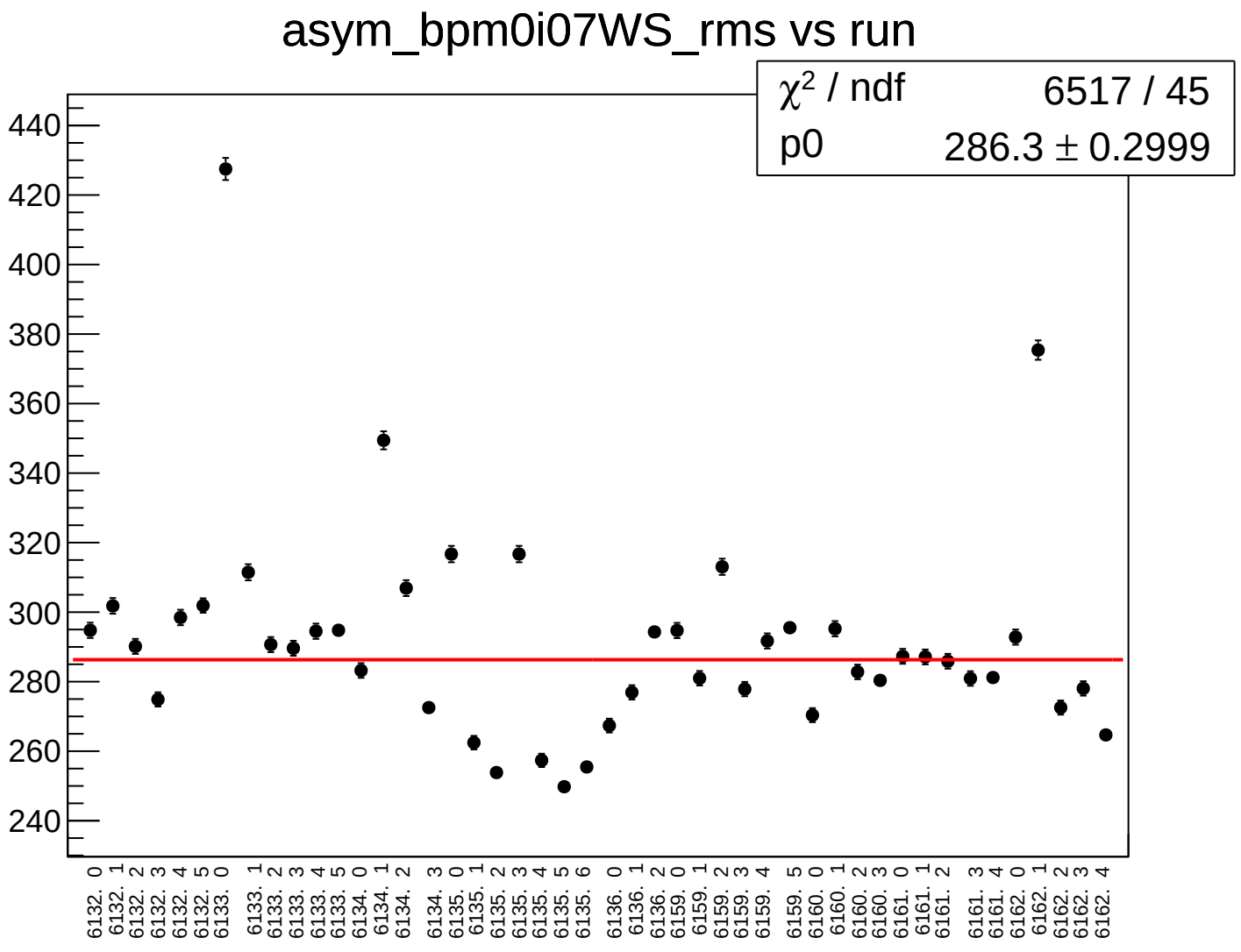

asym_bpm0i05WS_mean vs run
χ² / ndf 356.6 / 45
p0 4740 ± 399.3
pull
Entries 46
Mean −517.4
Std Dev 0


pull1D
Entries 46
Mean 0.05745
Std Dev 2.784


asym_bpm0i05WS_rms vs run
χ² / ndf 7675 / 45
p0 269.4 ± 0.2823
420
400
380
360
340
320
300
280
260
240
220
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bpm0i07WS_mean vs run
χ² / ndf 97.92 / 45
p0 1734 ± 424.1
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −492.9
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean 0.02761
Std Dev 1.459
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i07WS_rms vs run
χ² / ndf 6517 / 45
p0 286.3 ± 0.2999
440
420
400
380
360
340
320
300
280
260
240
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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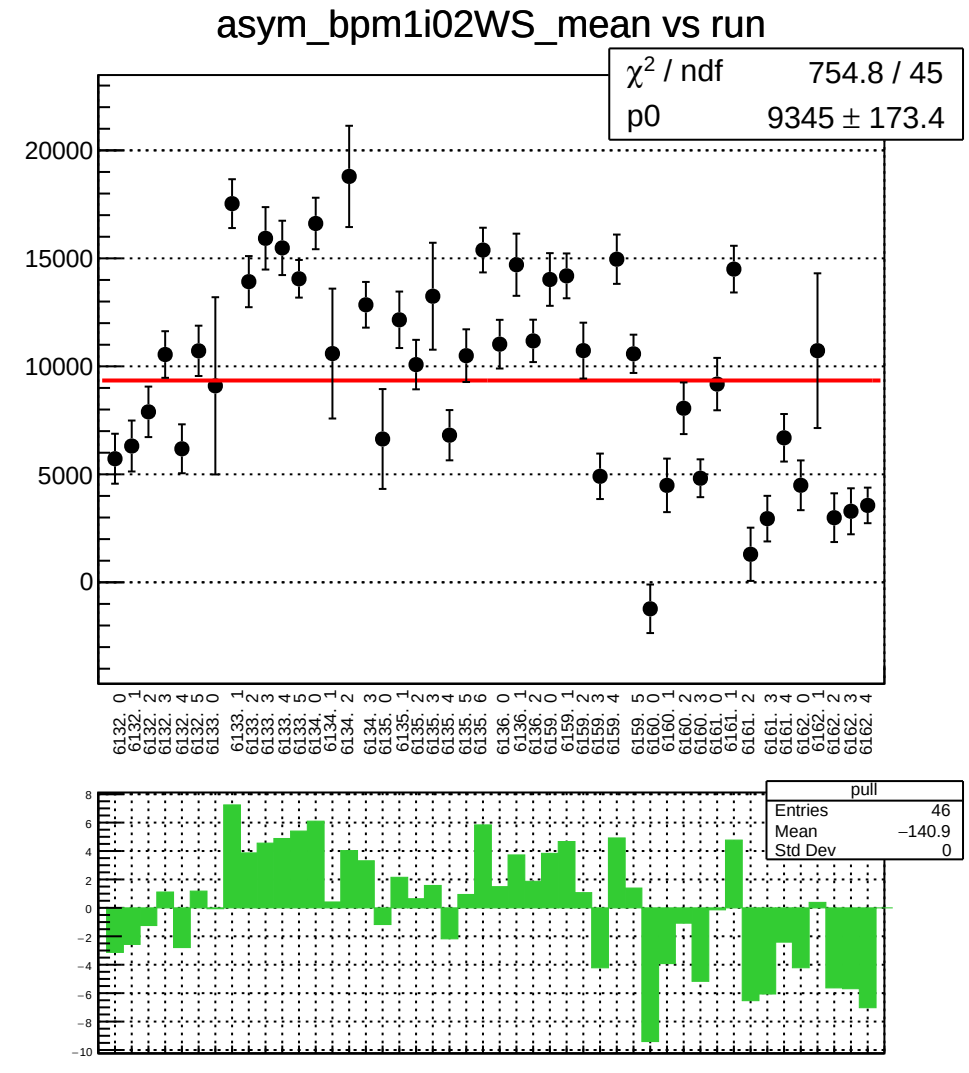
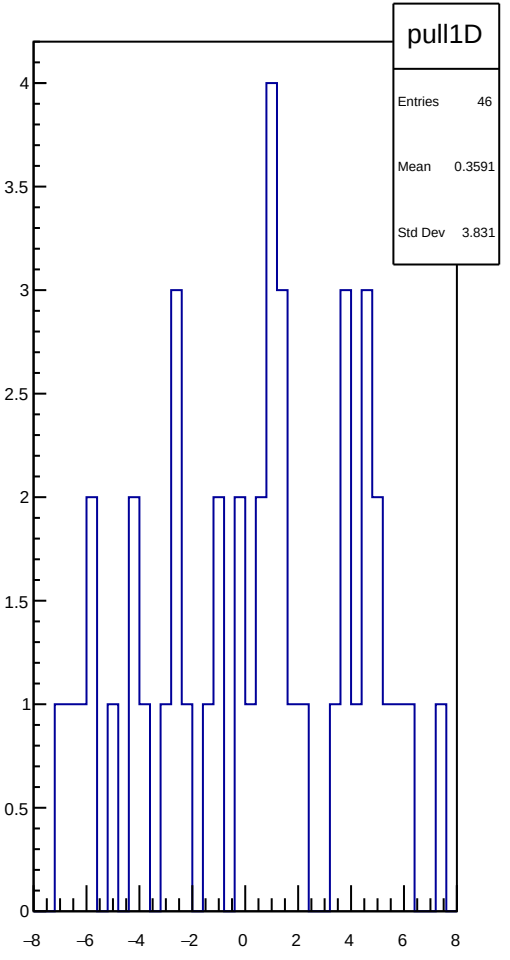
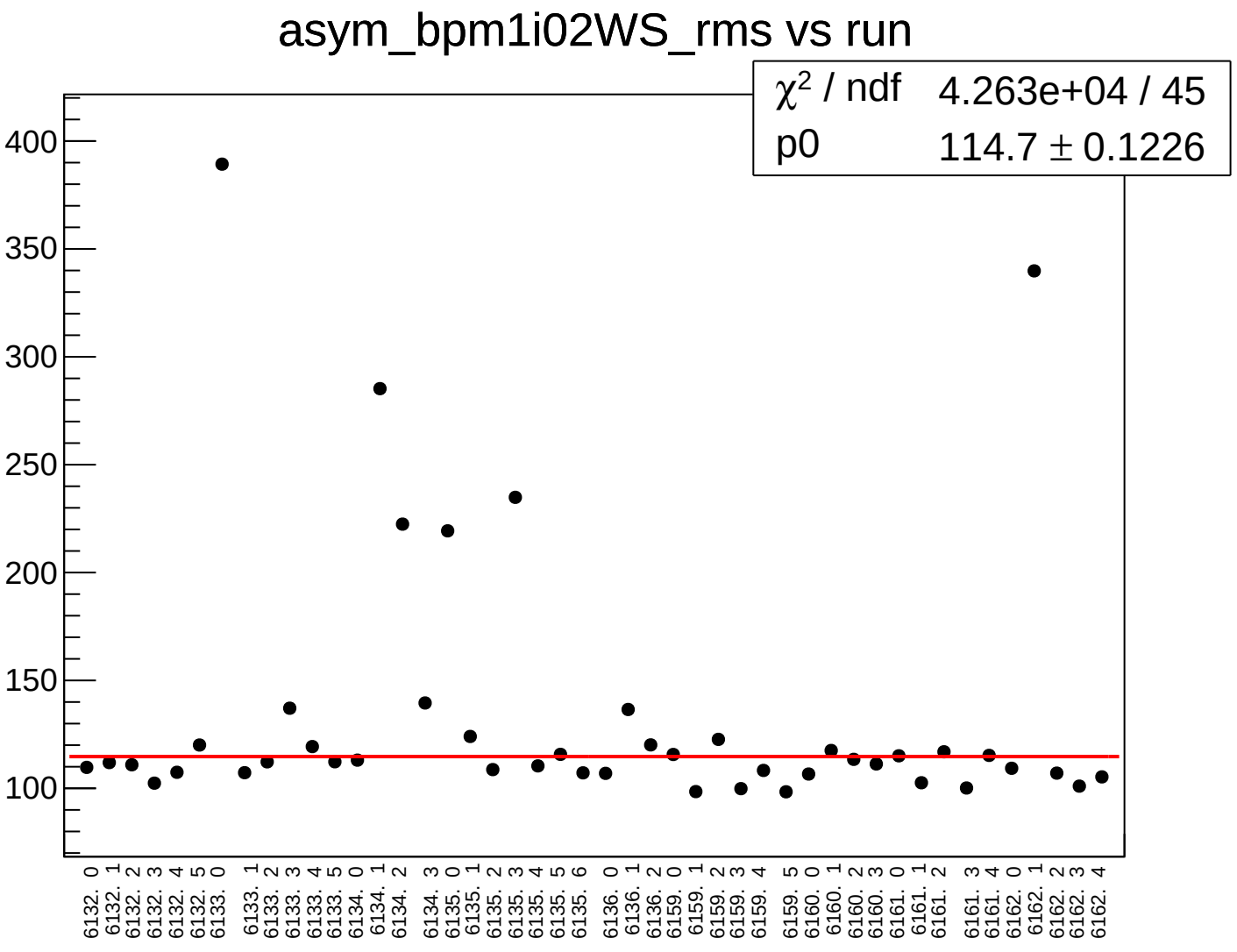
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bpm1i02WS_mean vs run
χ² / ndf 754.8 / 45
p0 9345 ± 173.4
20000
15000
10000
5000
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −140.9
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10


pull1D
Entries 46
Mean 0.3591
Std Dev 3.831
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm1i02WS_rms vs run
χ² / ndf 4.263e+04 / 45
p0 114.7 ± 0.1226
400
350
300
250
200
150
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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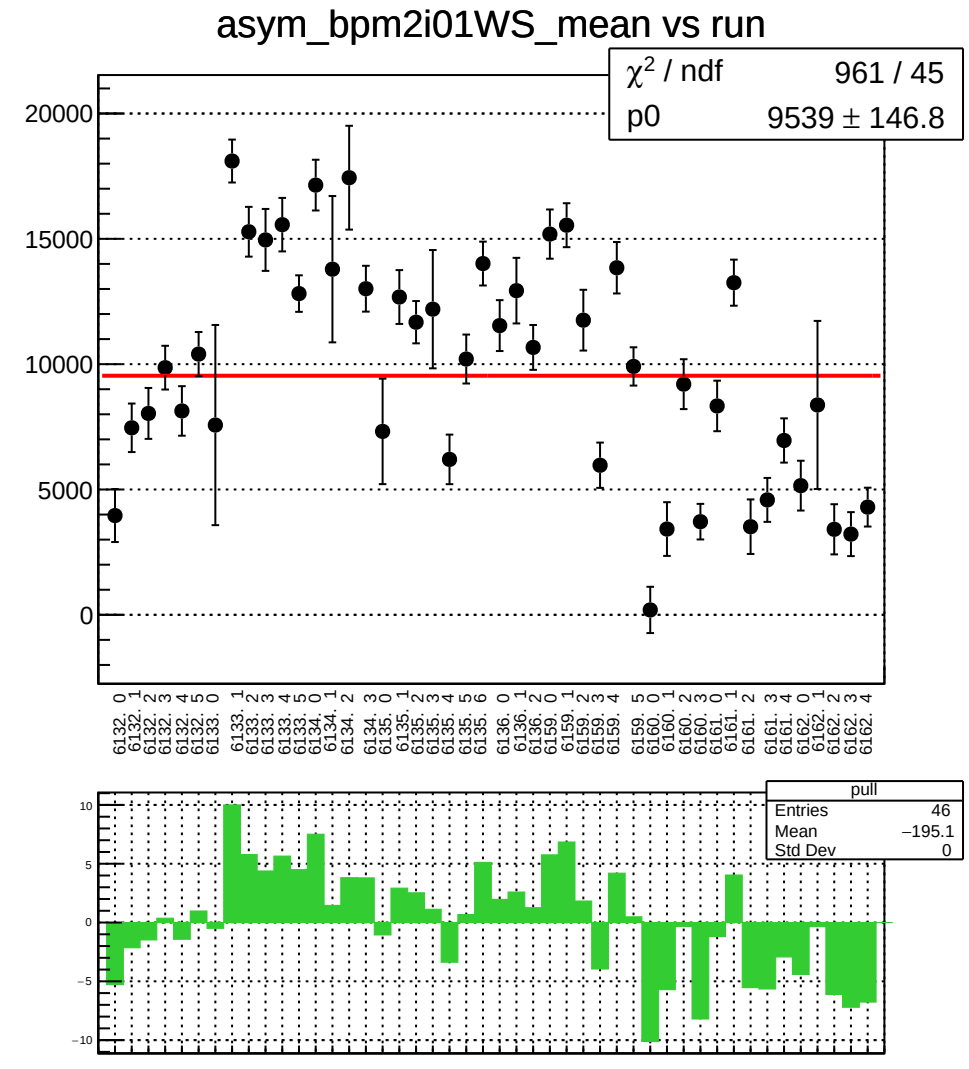
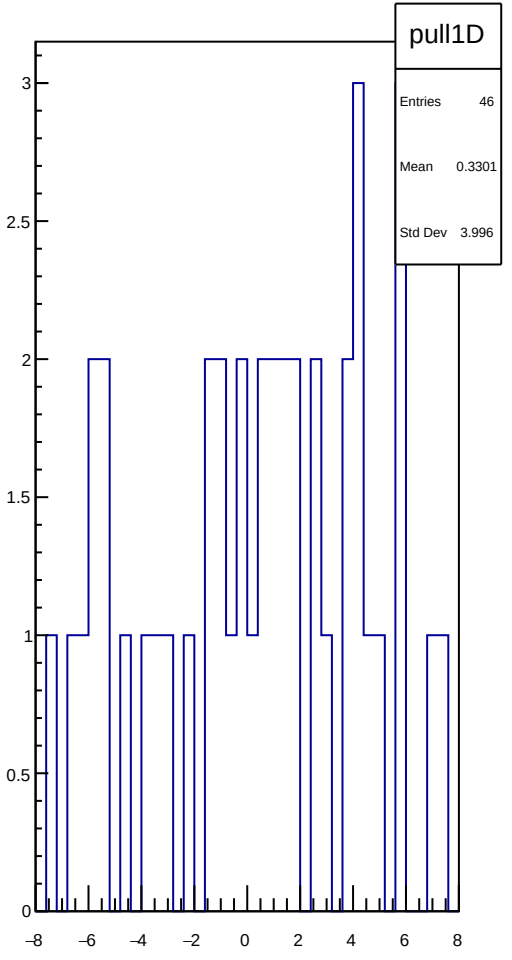
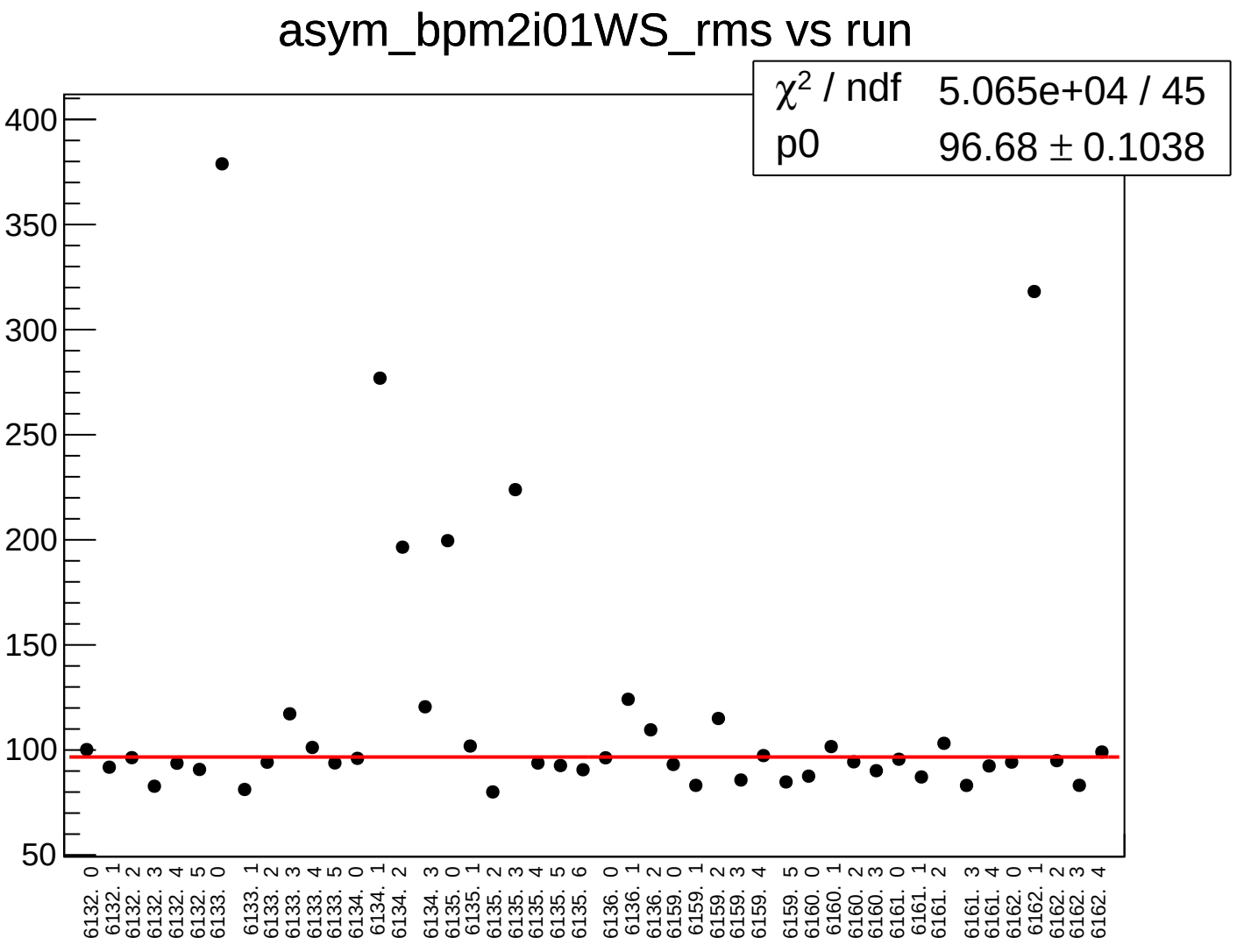
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bpm2i01WS_mean vs run
χ² / ndf 961 / 45
p0 9539 ± 146.8
20000
15000
10000
5000
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −195.1
Std Dev 0
10
5
0
−5
−10


pull1D
Entries 46
Mean 0.3301
Std Dev 3.996
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 5.065e+04 / 45
p0 96.68 ± 0.1038
400
350
300
250
200
150
100
50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
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6135. 0
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6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
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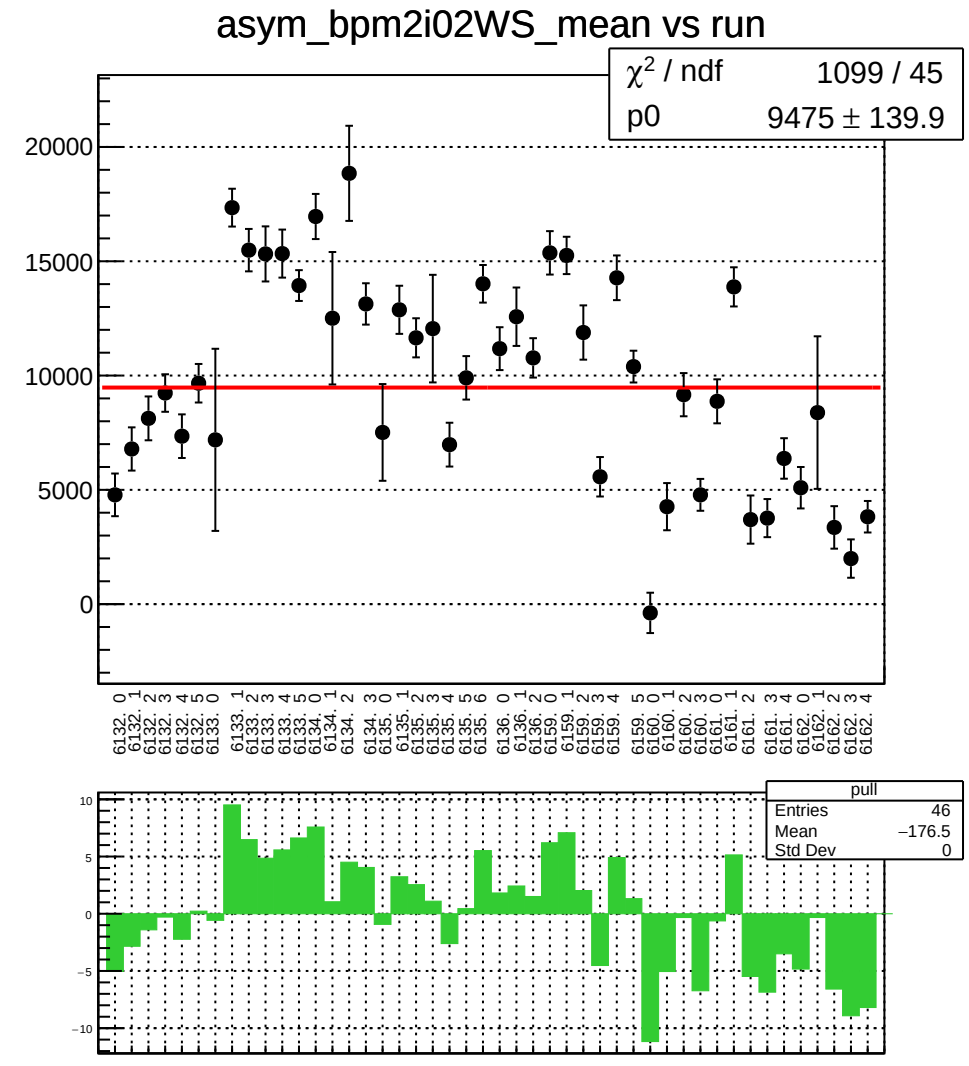
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bpm2i02WS_mean vs run
χ² / ndf 1099 / 45
p0 9475 ± 139.9
20000
15000
10000
5000
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
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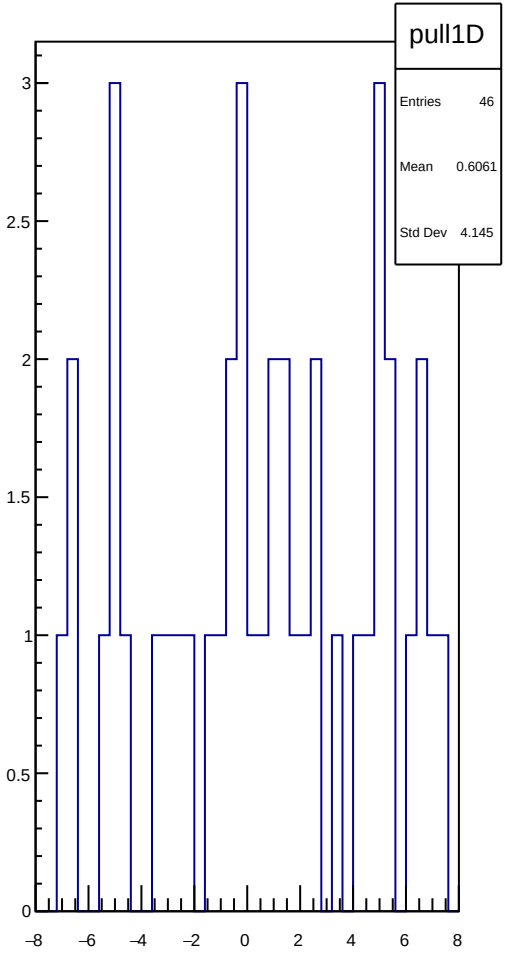
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −176.5
Std Dev 0
10
5
0
−5
−10


pull1D
Entries 46
Mean 0.6061
Std Dev 4.145
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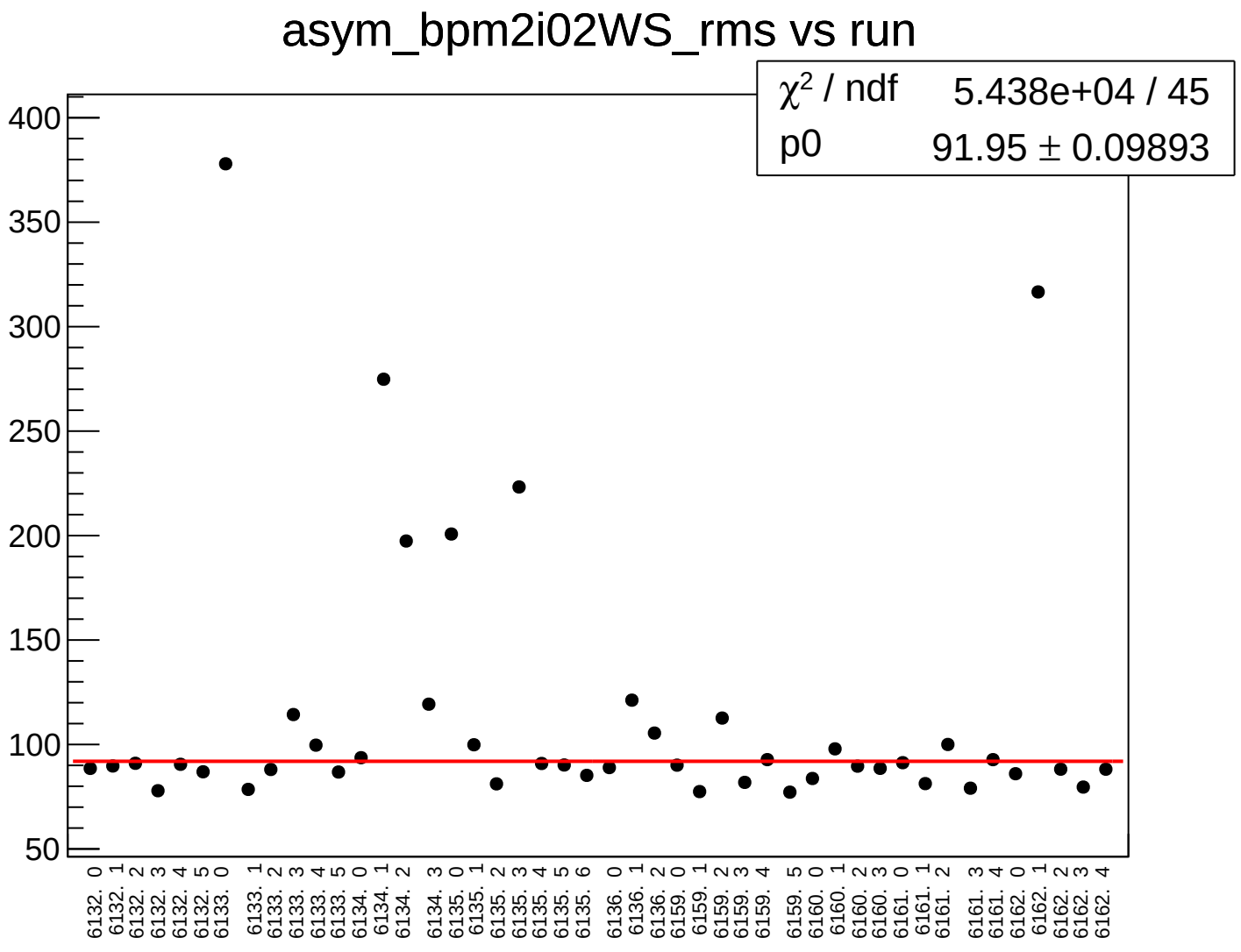
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm2i02WS_rms vs run
χ² / ndf 5.438e+04 / 45
p0 91.95 ± 0.09893
400
350
300
250
200
150
100
50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6134. 2
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6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 3
6161. 4
6162. 0
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6162. 2
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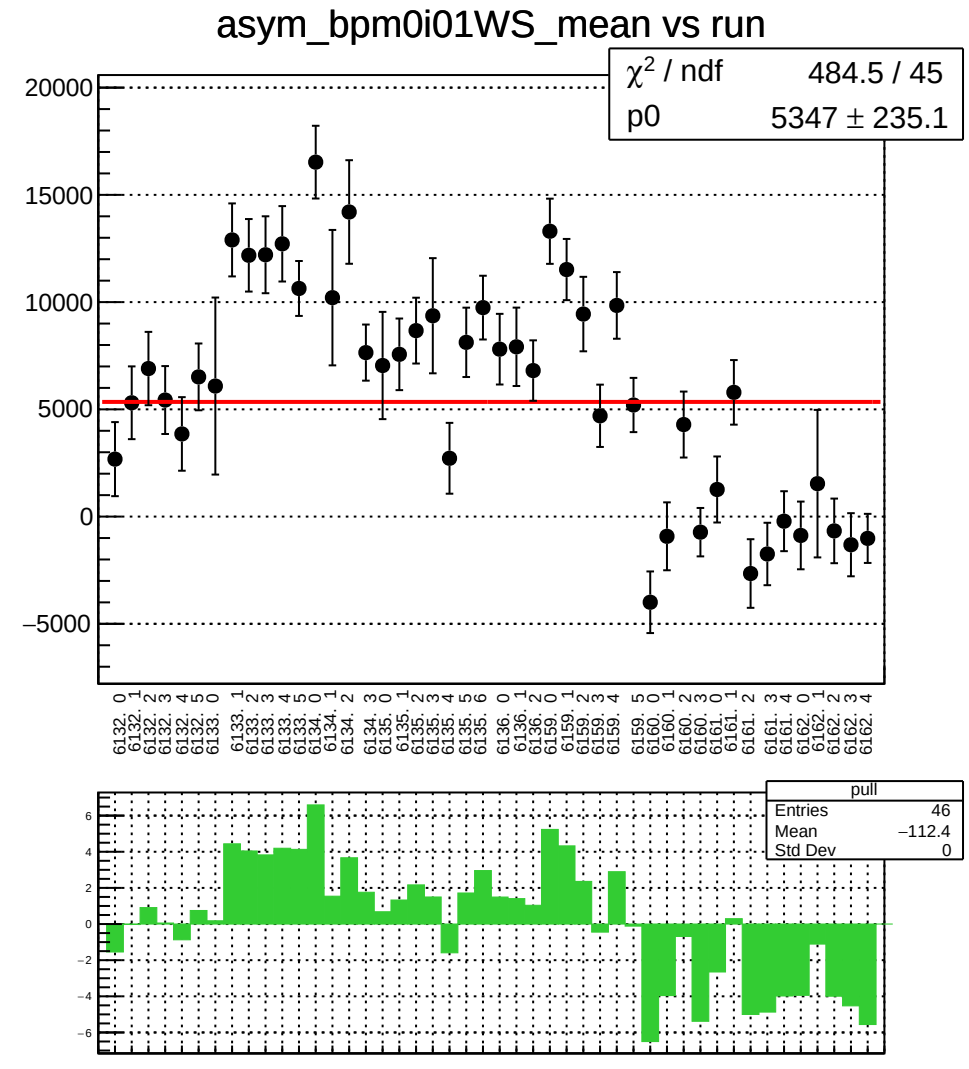
6162. 4


asym_bpm0i01WS_mean vs run
χ² / ndf 484.5 / 45
p0 5347 ± 235.1
20000
15000
10000
5000
0
−5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
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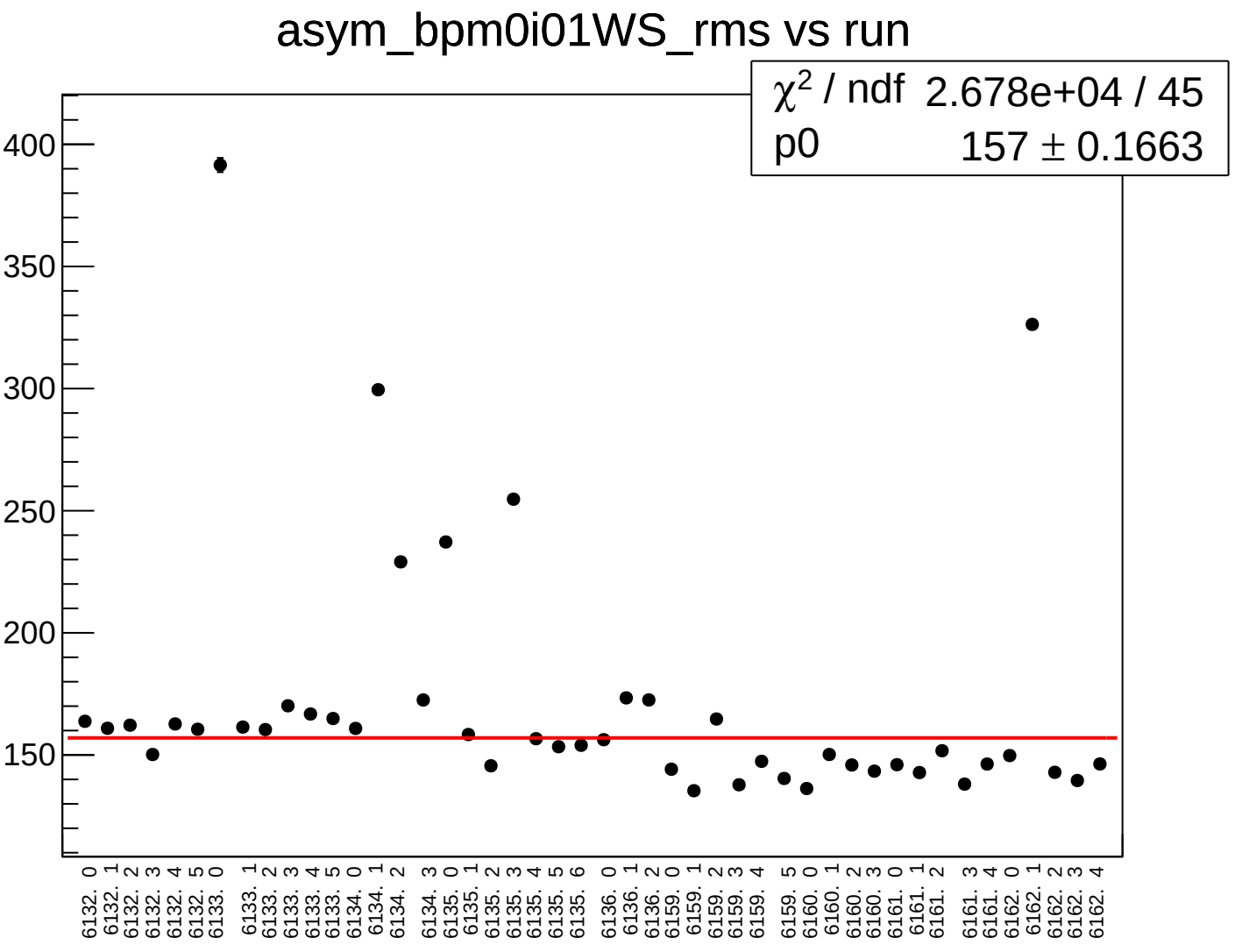
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −112.4
Std Dev 0
6
4
2
0
−2
−4
−6
pull1D
Entries 46
Mean 0.1895
Std Dev 3.24
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i01WS_rms vs run
χ² / ndf 2.678e+04 / 45
p0 157 ± 0.1663
400
350
300
250
200
150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
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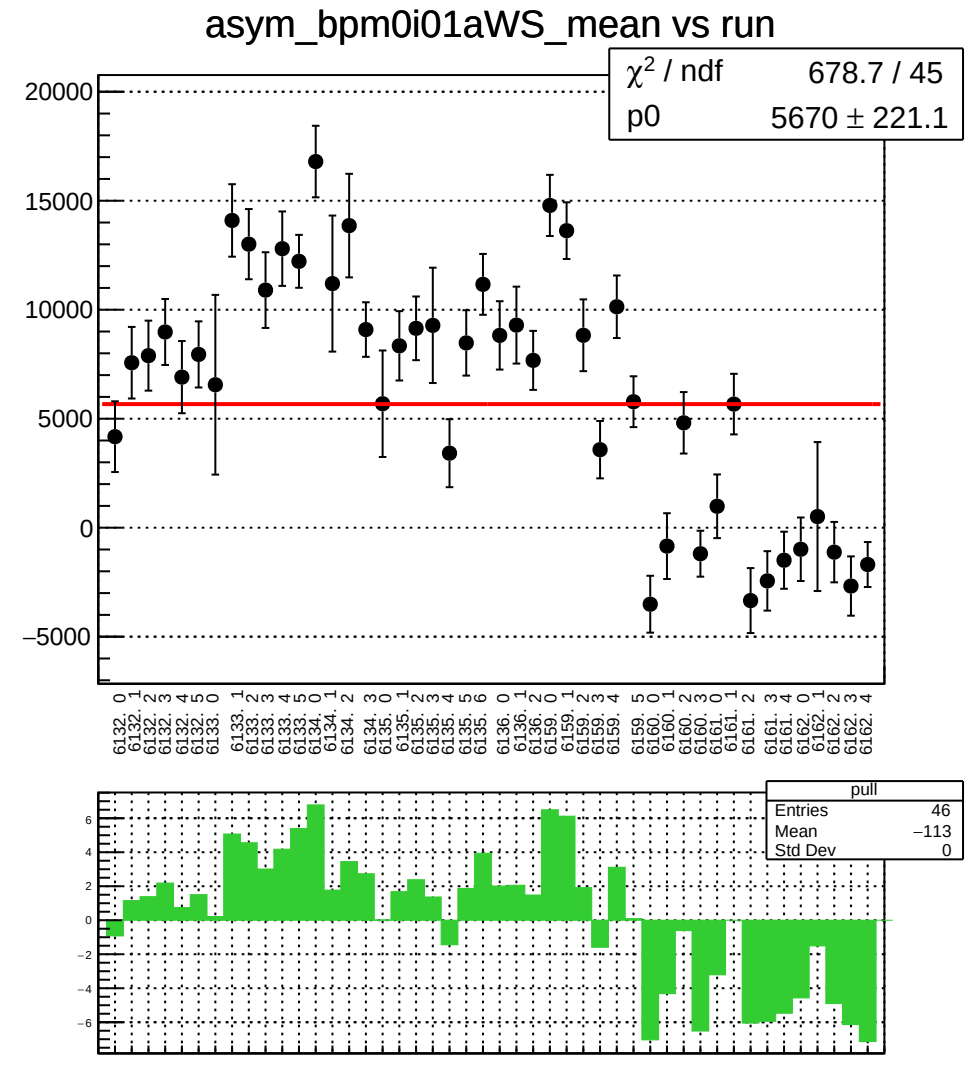
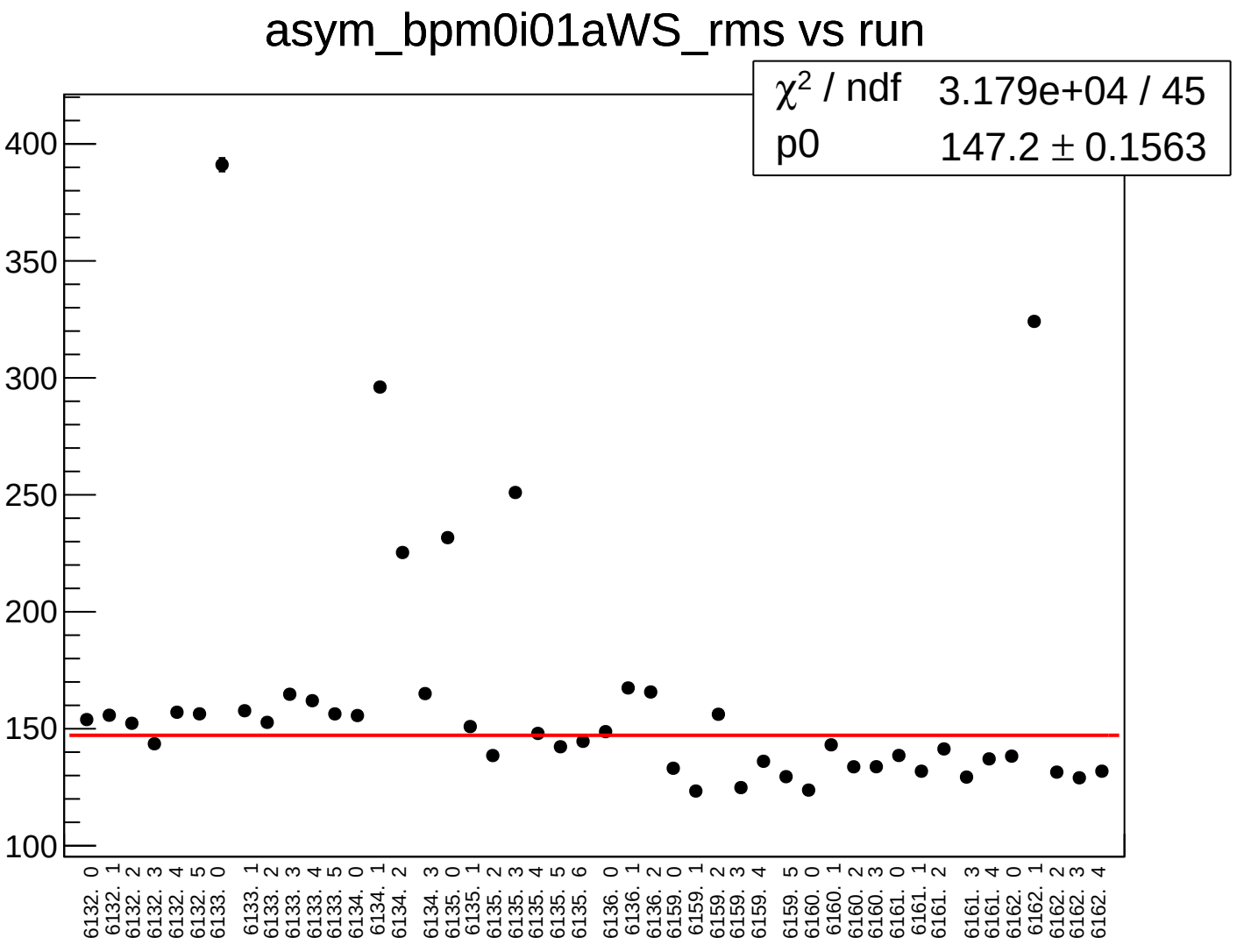
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bpm0i01aWS_mean vs run
χ² / ndf 678.7 / 45
p0 5670 ± 221.1
20000
15000
10000
5000
0
−5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −113
Std Dev 0
6
4
2
0
−2
−4
−6
pull1D
Entries 46
Mean 0.2458
Std Dev 3.833
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i01aWS_rms vs run
χ² / ndf 3.179e+04 / 45
p0 147.2 ± 0.1563
400
350
300
250
200
150
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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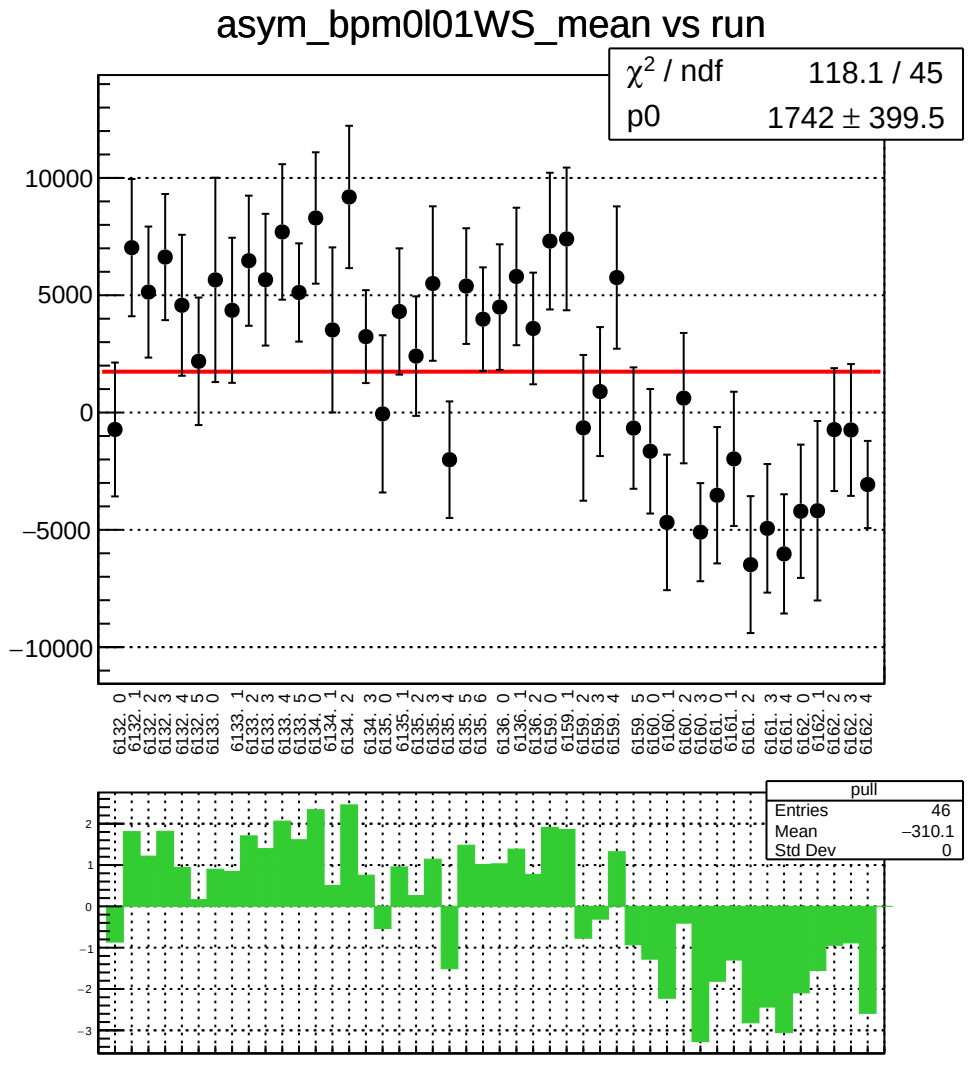
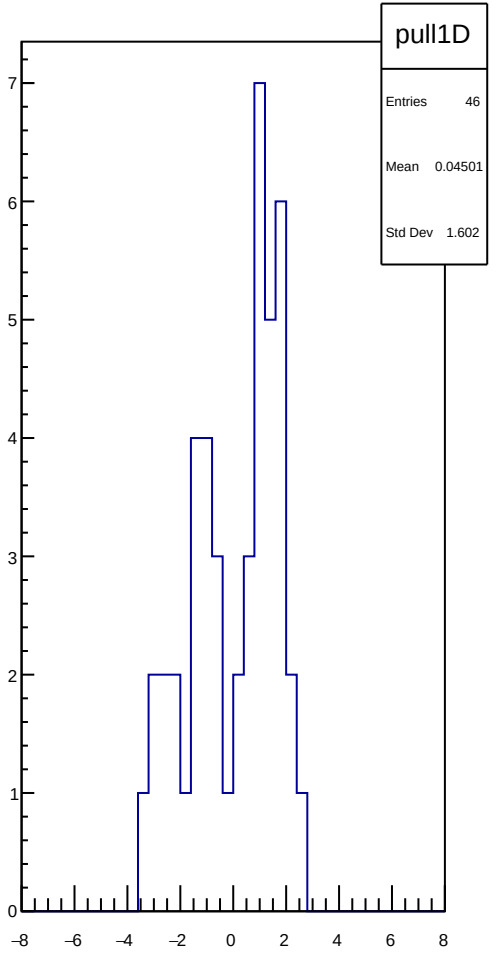
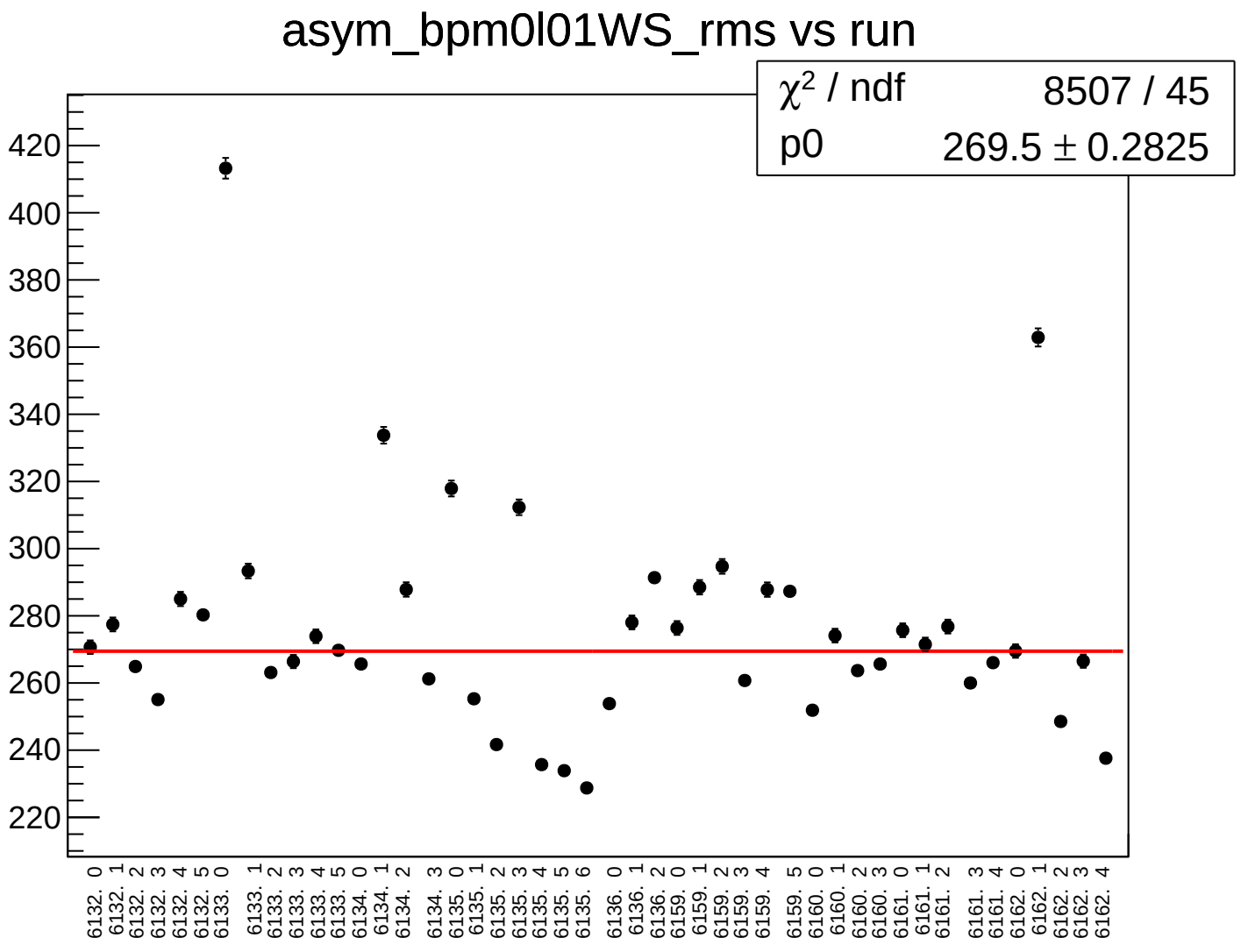
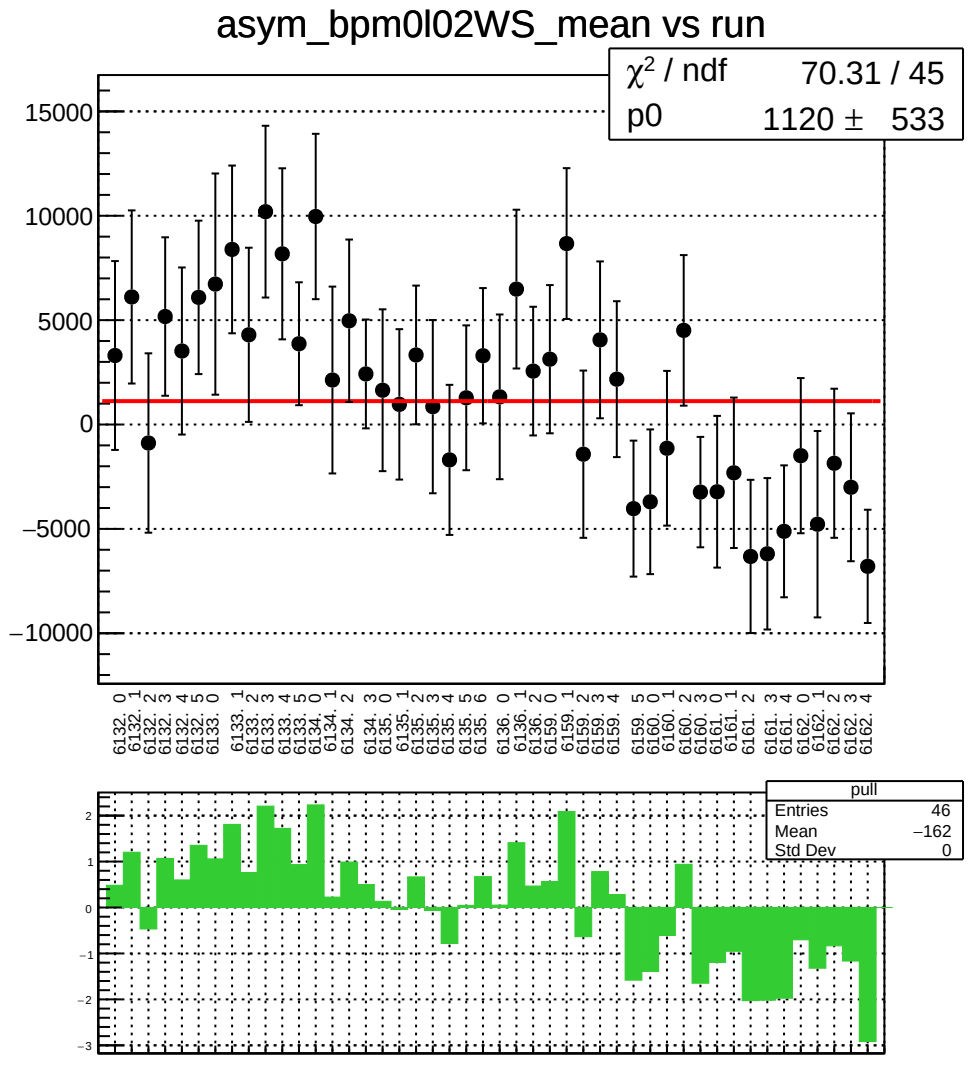
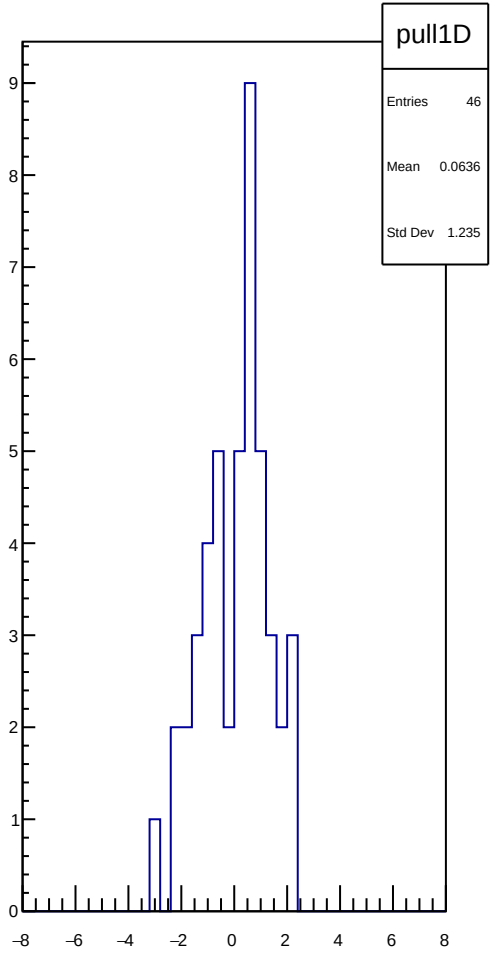
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

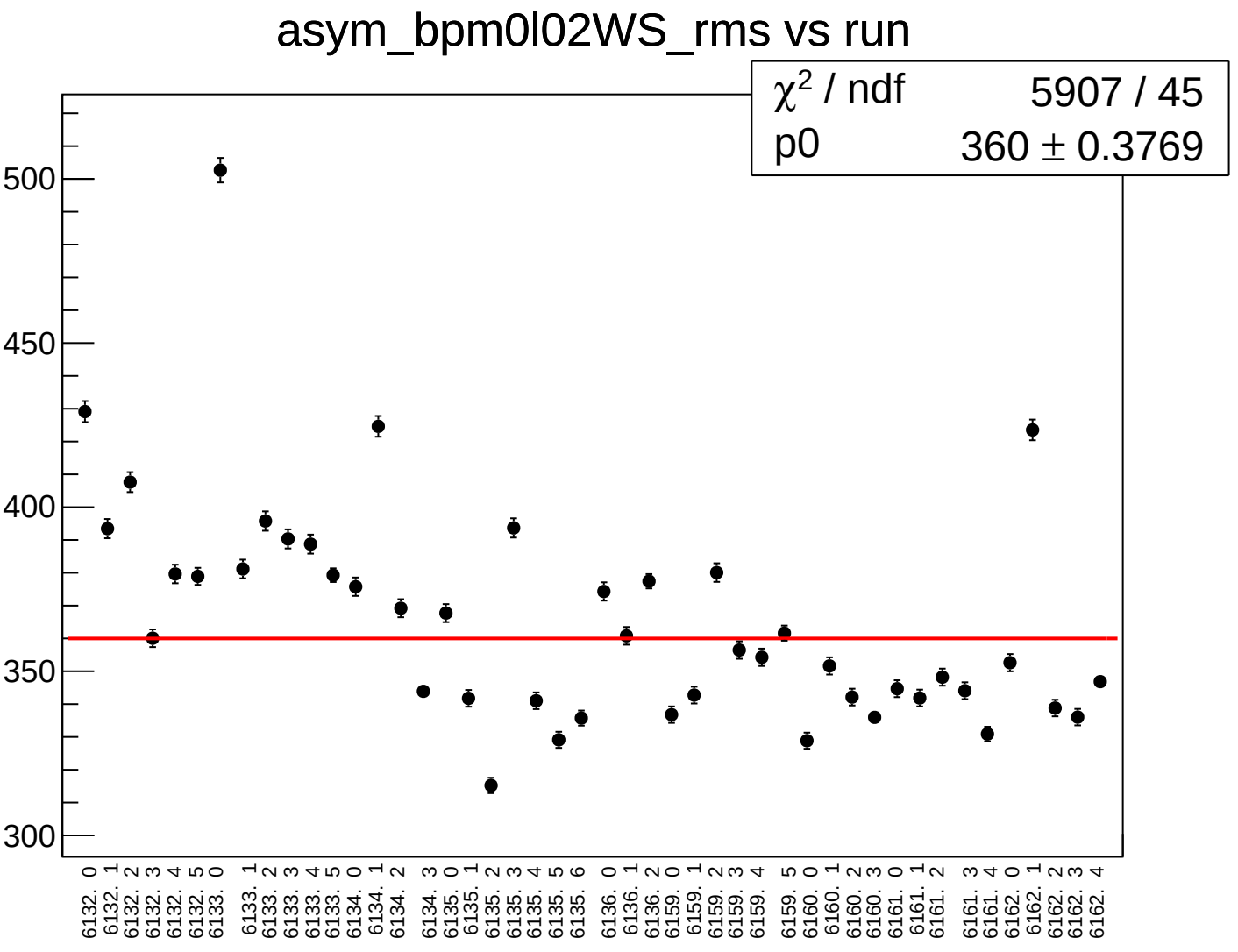

asym_bpm0l01WS_mean vs run
χ² / ndf 118.1 / 45
p0 1742 ± 399.5
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −310.1
Std Dev 0
2
1
0
−1
−2
−3

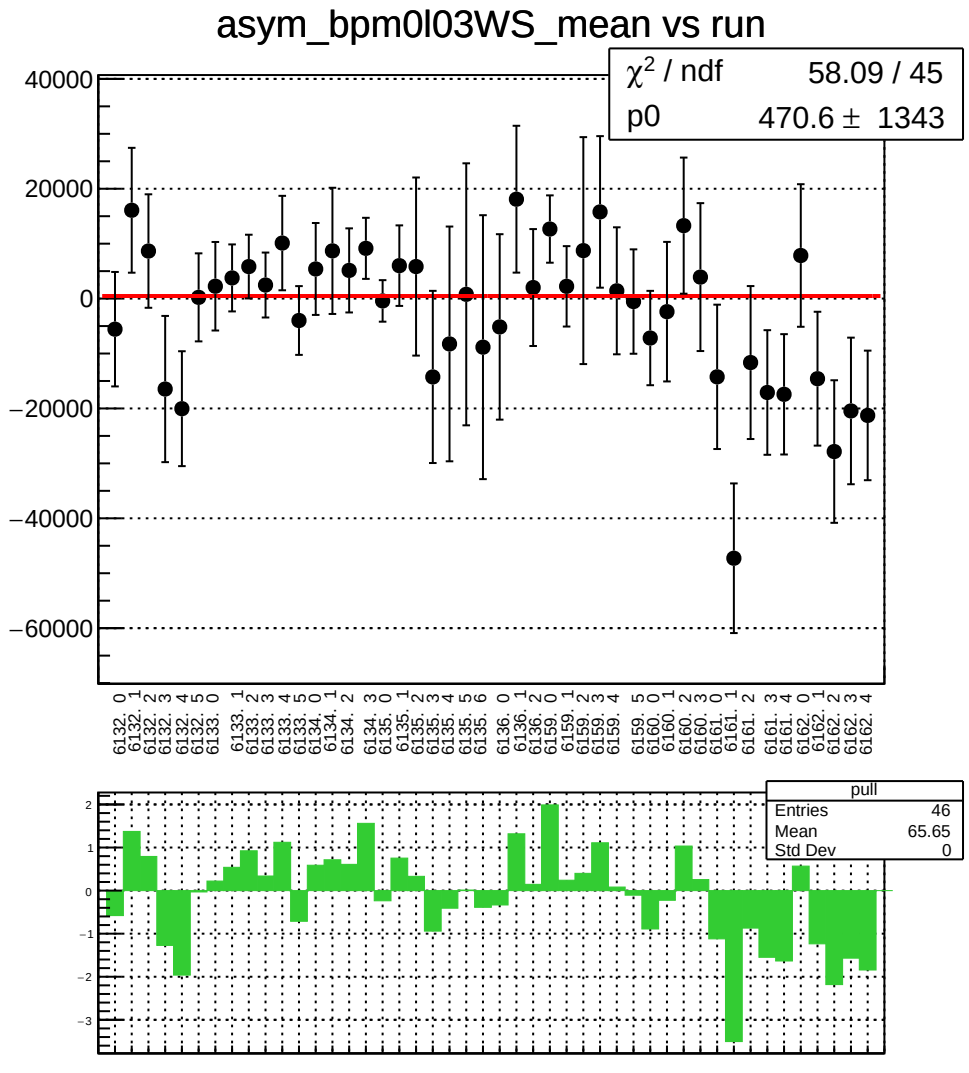

pull1D
Entries 46
Mean 0.04501
Std Dev 1.602
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

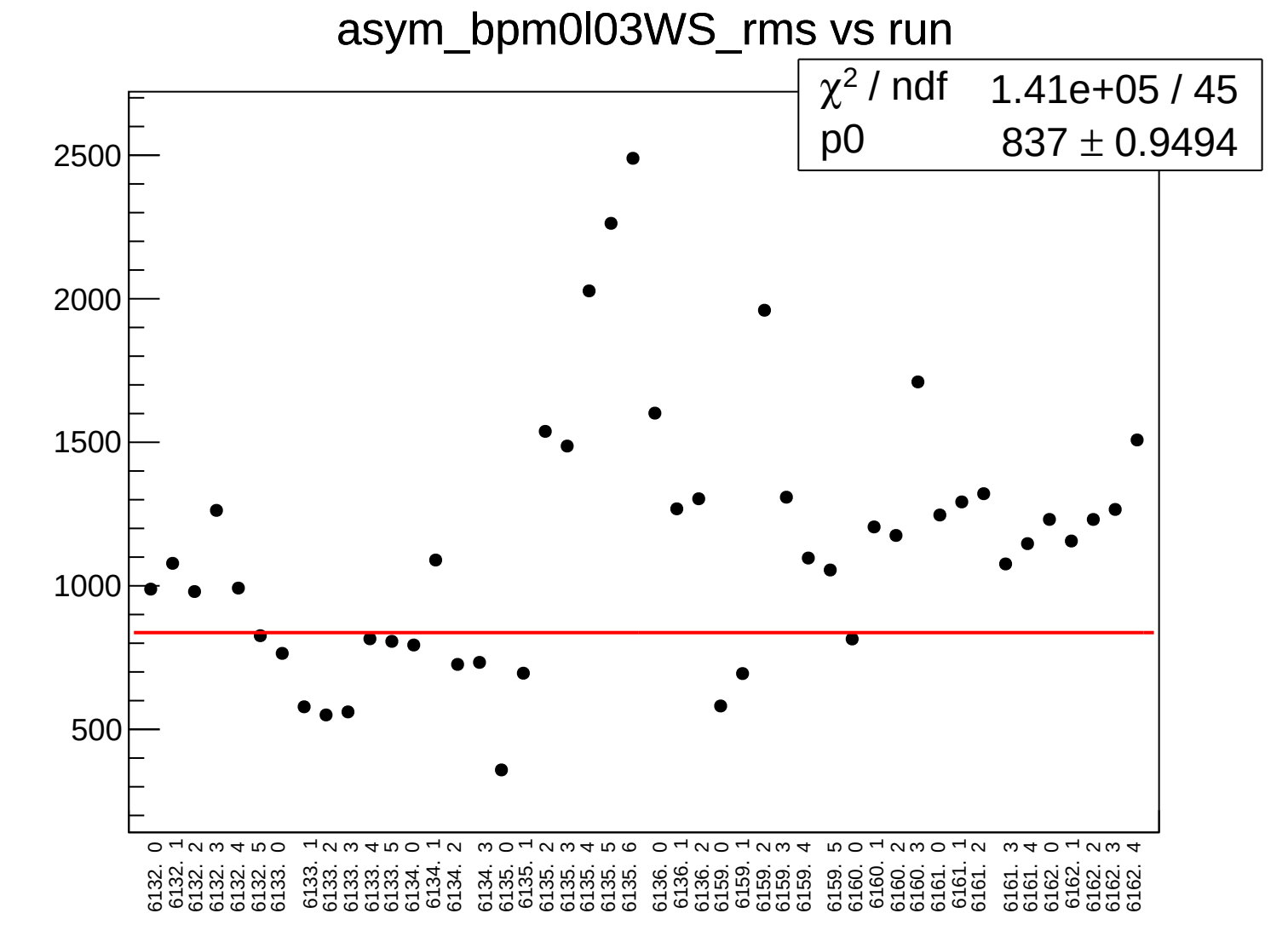

asym_bpm0l01WS_rms vs run
χ² / ndf 8507 / 45
p0 269.5 ± 0.2825
420
400
380
360
340
320
300
280
260
240
220
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

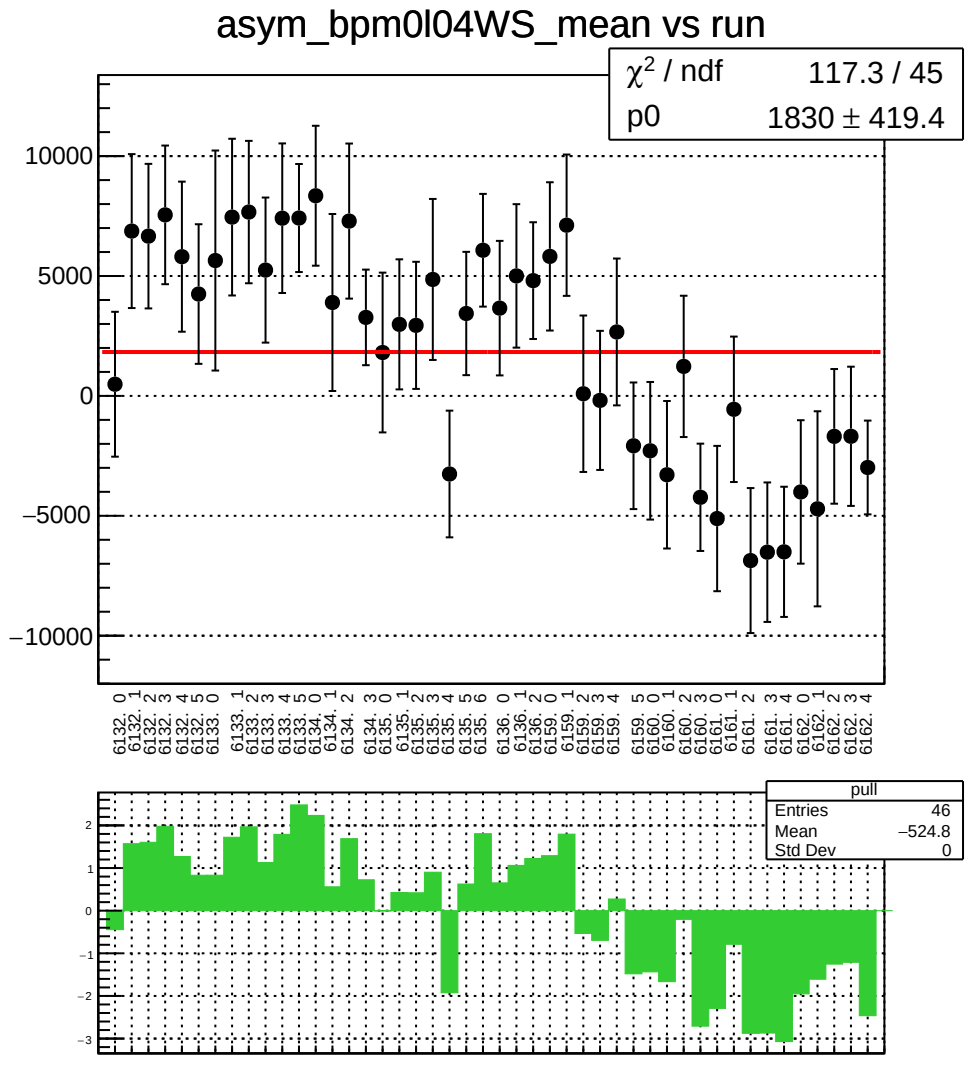

asym_bpm0l02WS_mean vs run
χ² / ndf 70.31 / 45
p0 1120 ± 533
15000
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −162
Std Dev 0
2
1
0
−1
−2
−3

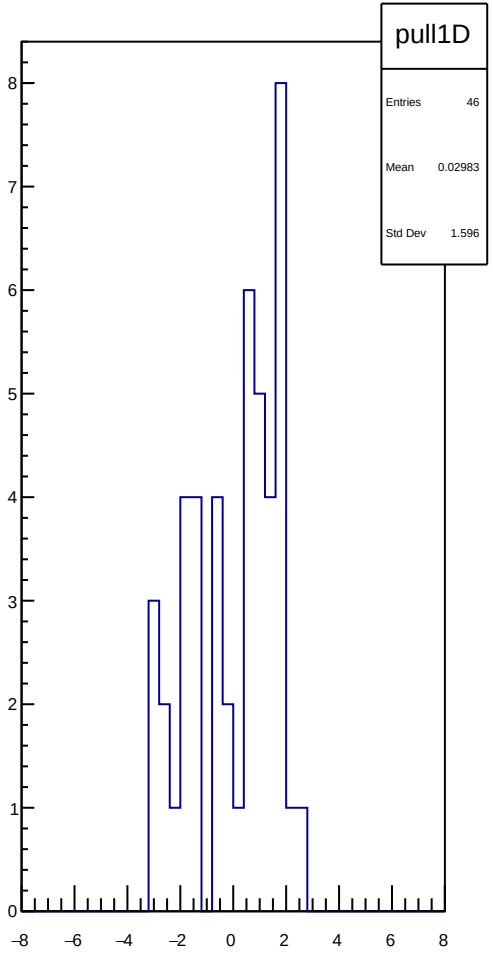

pull1D
Entries 46
Mean 0.0636
Std Dev 1.235
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

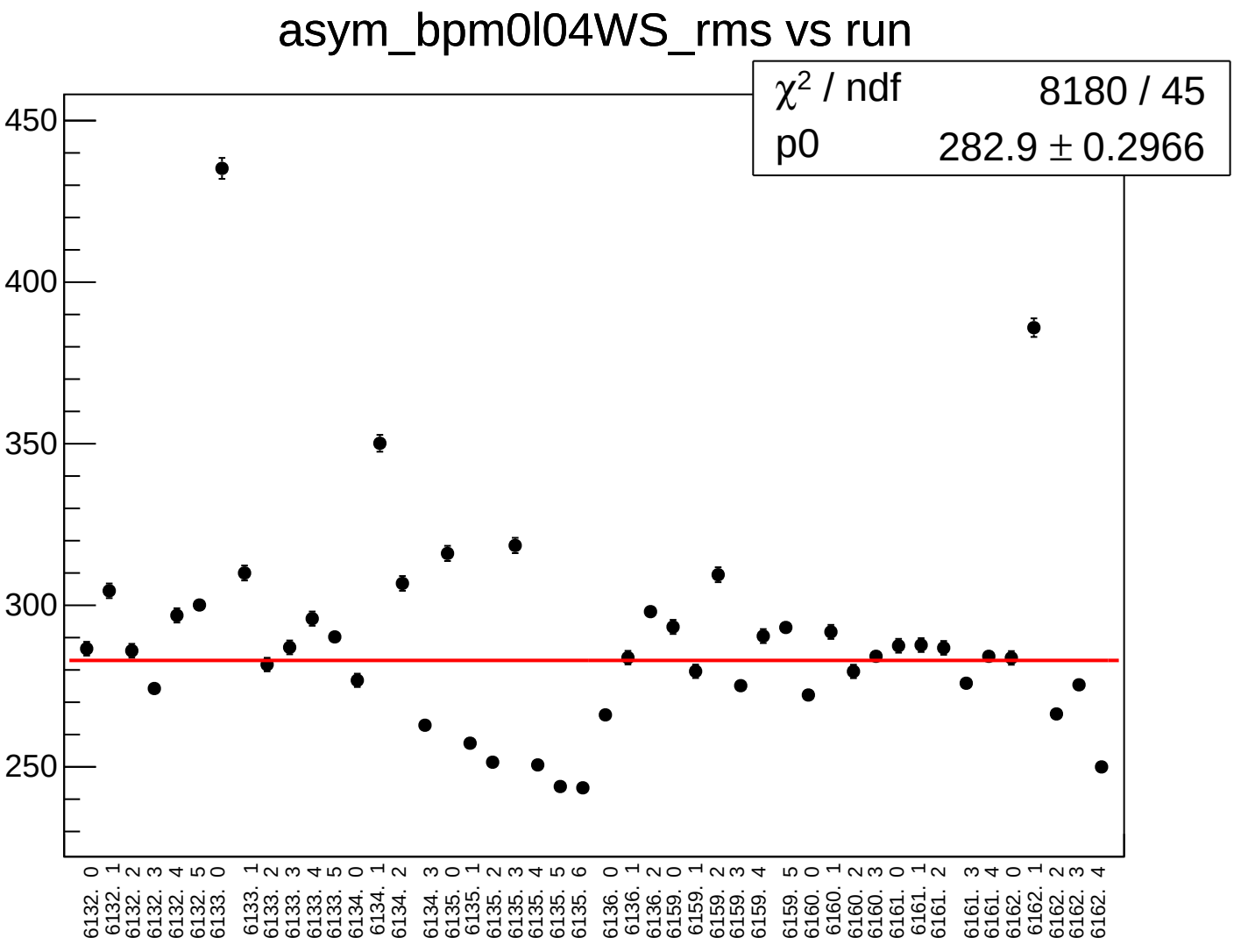

asym_bpm0l02WS_rms vs run
χ² / ndf 5907 / 45
p0 360 ± 0.3769
500
450
400
350
300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

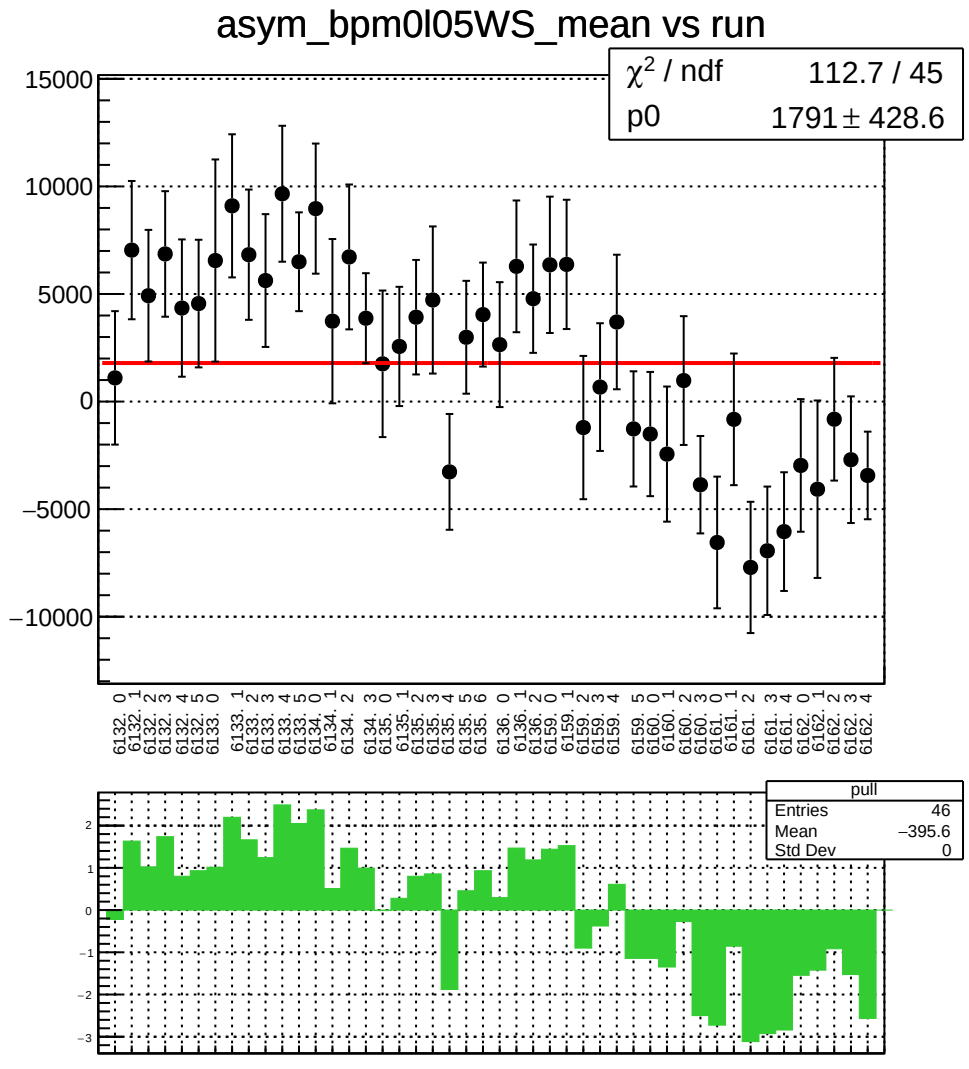

asym_bpm0l03WS_mean vs run
χ² / ndf 58.09 / 45
p0 470.6 ± 1343
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 65.65
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.1426
Std Dev 1.115
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l03WS_rms vs run
χ² / ndf 1.41e+05 / 45
p0 837 ± 0.9494
2500
2000
1500
1000
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bpm0l04WS_mean vs run
χ² / ndf 117.3 / 45
p0 1830 ± 419.4
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −524.8
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean 0.02983
Std Dev 1.596
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l04WS_rms vs run
χ² / ndf 8180 / 45
p0 282.9 ± 0.2966
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bpm0l05WS_mean vs run
χ² / ndf 112.7 / 45
p0 1791 ± 428.6
15000
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
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6135. 5
6135. 6
6136. 0
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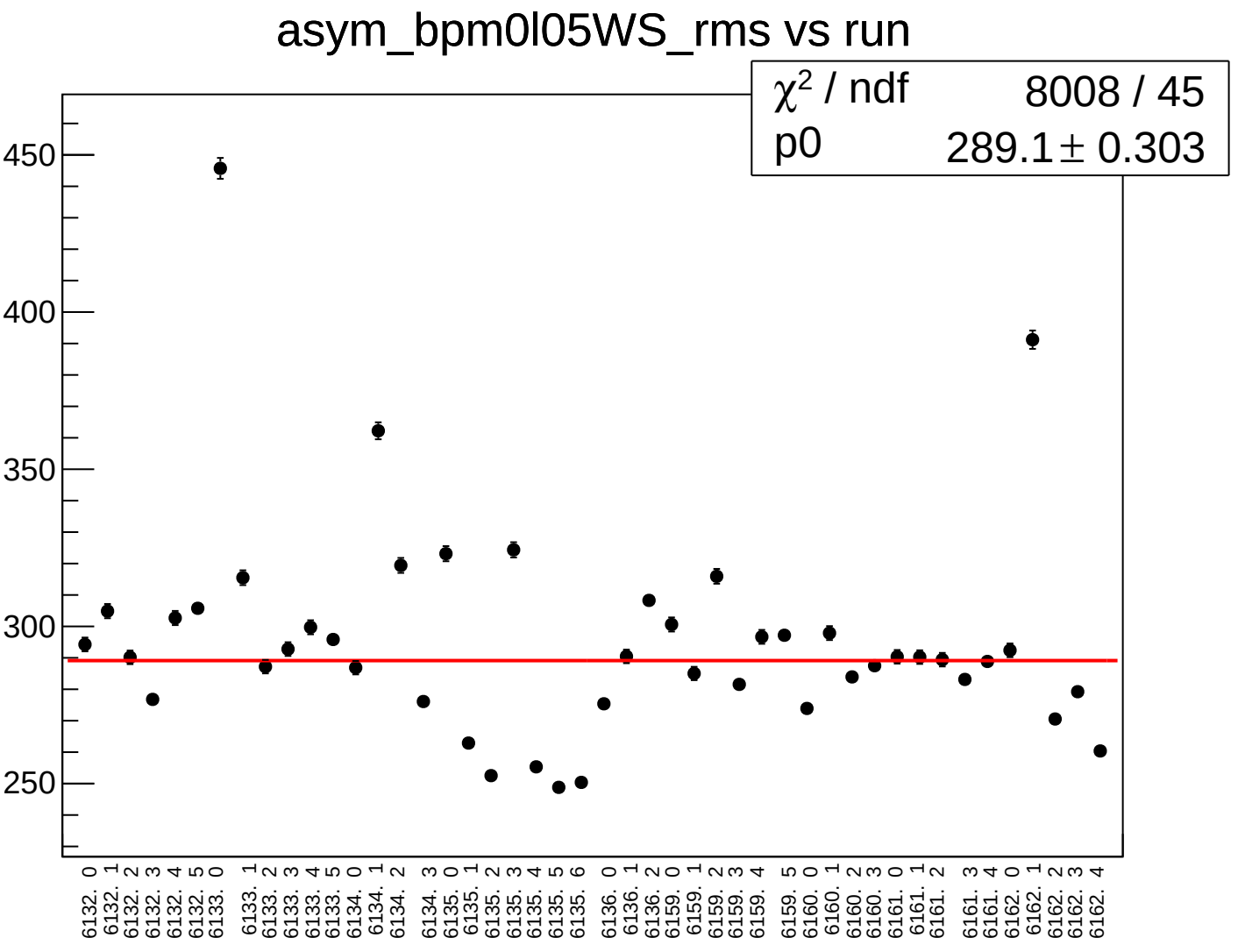
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −395.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean 0.03803
Std Dev 1.565
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l05WS_rms vs run
χ² / ndf 8008 / 45
p0 289.1 ± 0.303
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 2
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6134. 2
6134. 3
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6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
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6136. 1
6136. 2
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6159. 3
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6159. 5
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6160. 1
6160. 2
6160. 3
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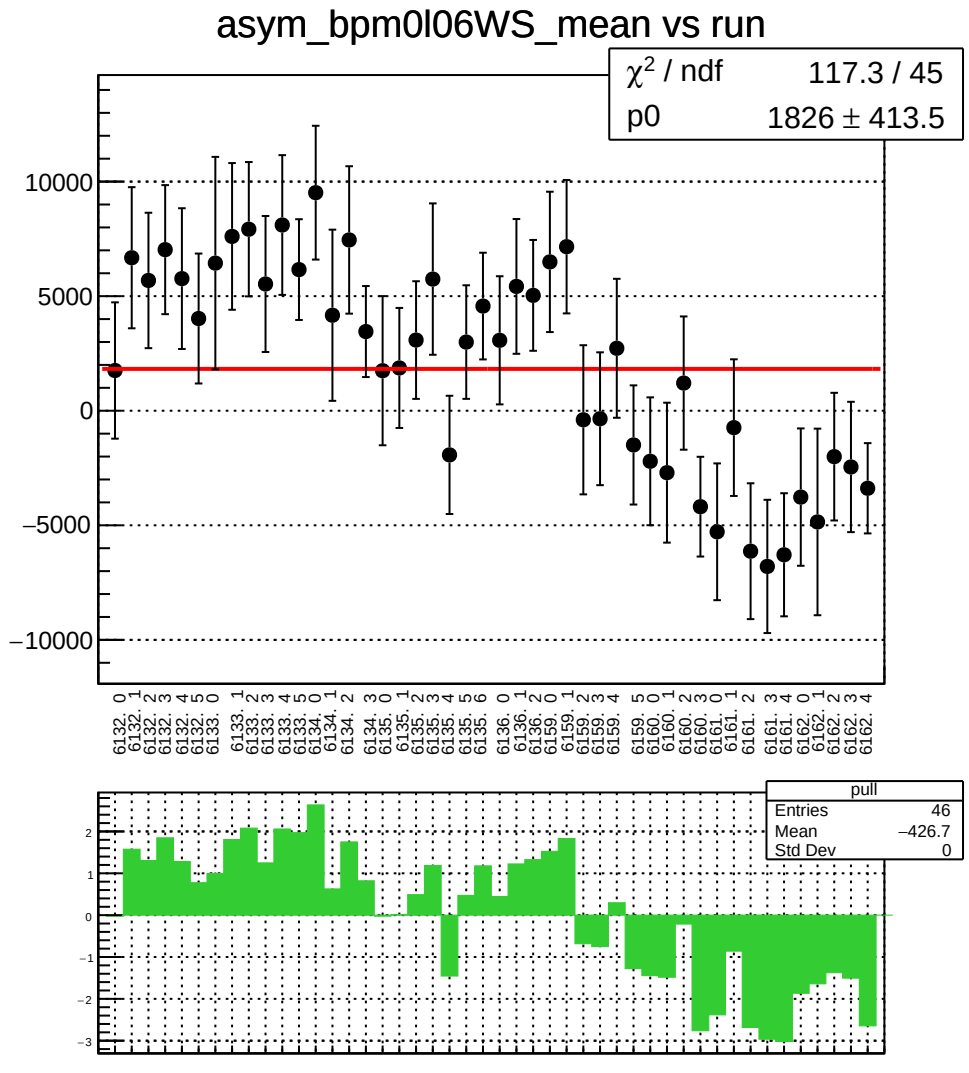
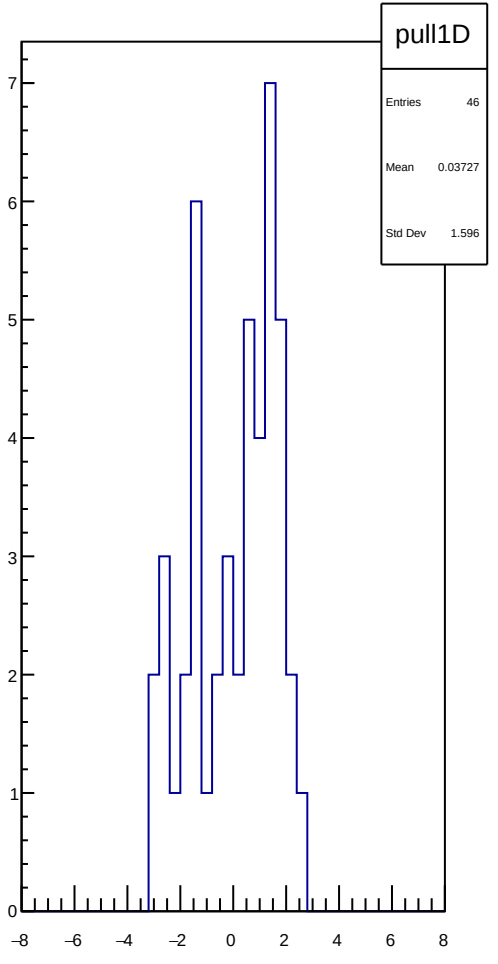
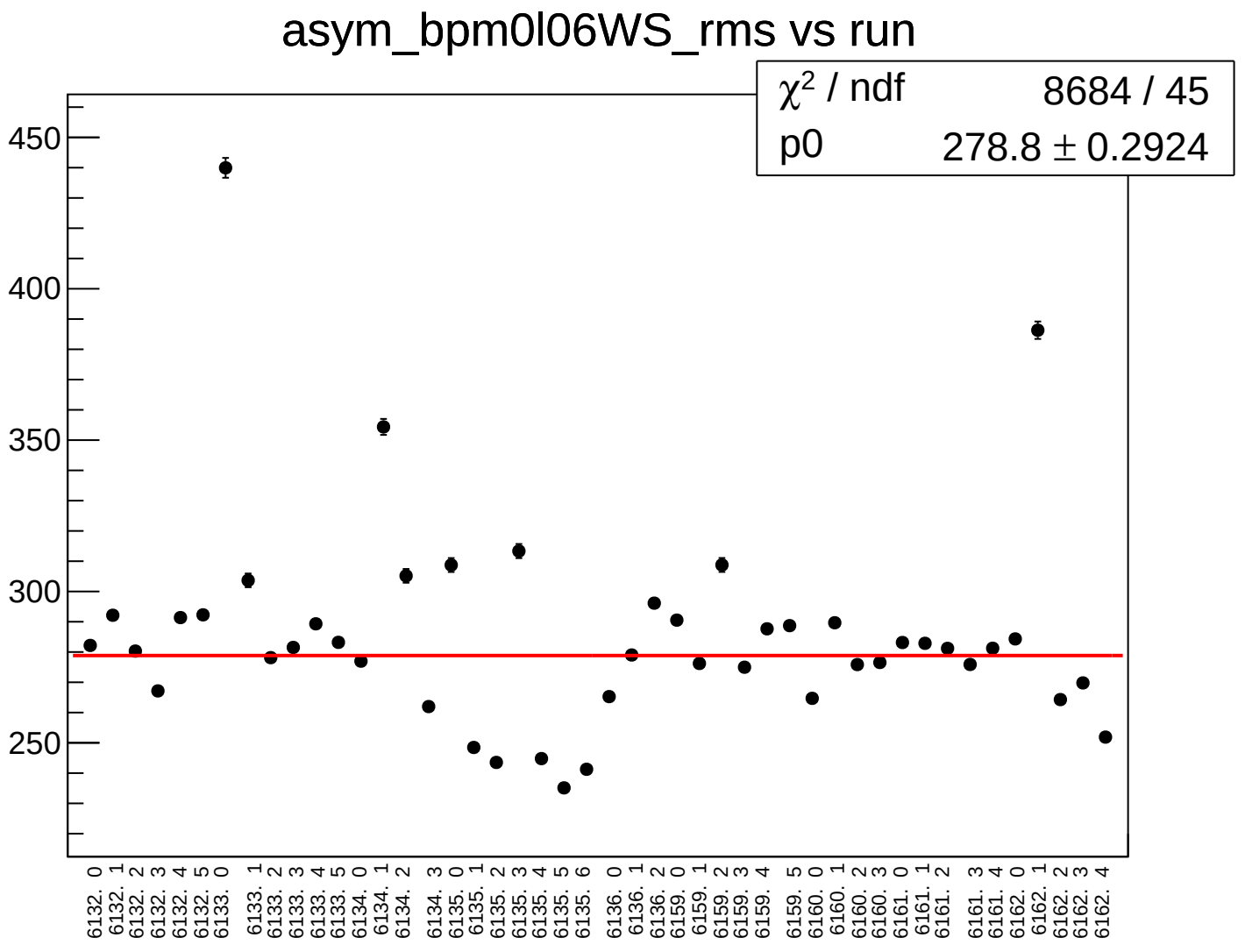
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bpm0l06WS_mean vs run
χ² / ndf 117.3 / 45
p0 1826 ± 413.5
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −426.7
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean 0.03727
Std Dev 1.596
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l06WS_rms vs run
χ² / ndf 8684 / 45
p0 278.8 ± 0.2924
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
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6134. 2
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6135. 1
6135. 2
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6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6162. 1
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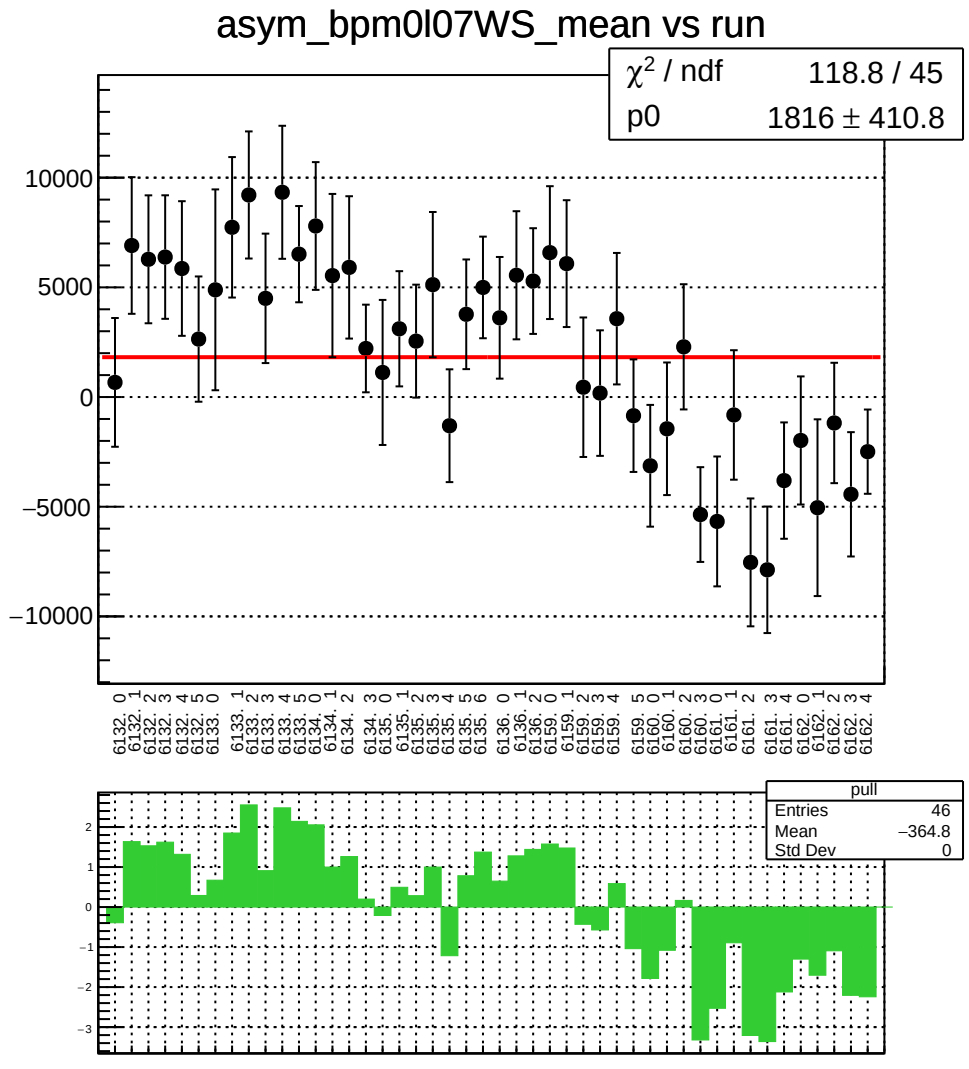
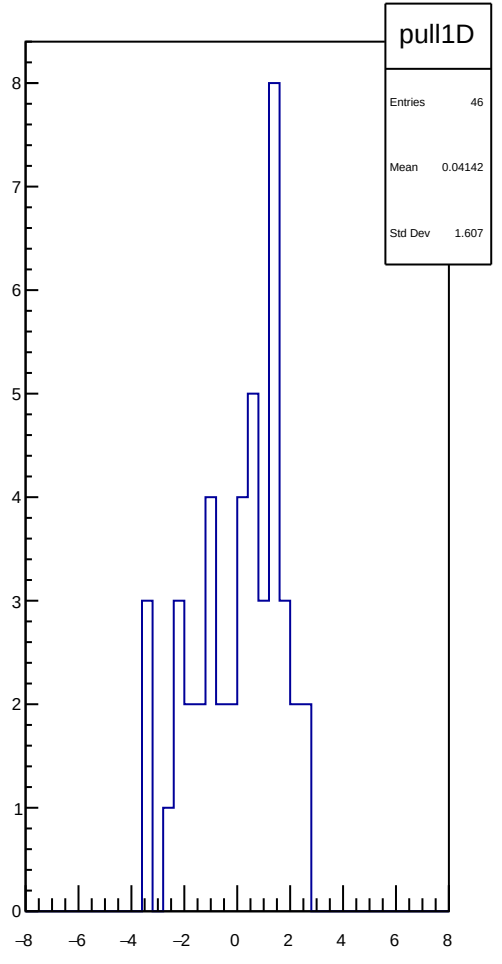
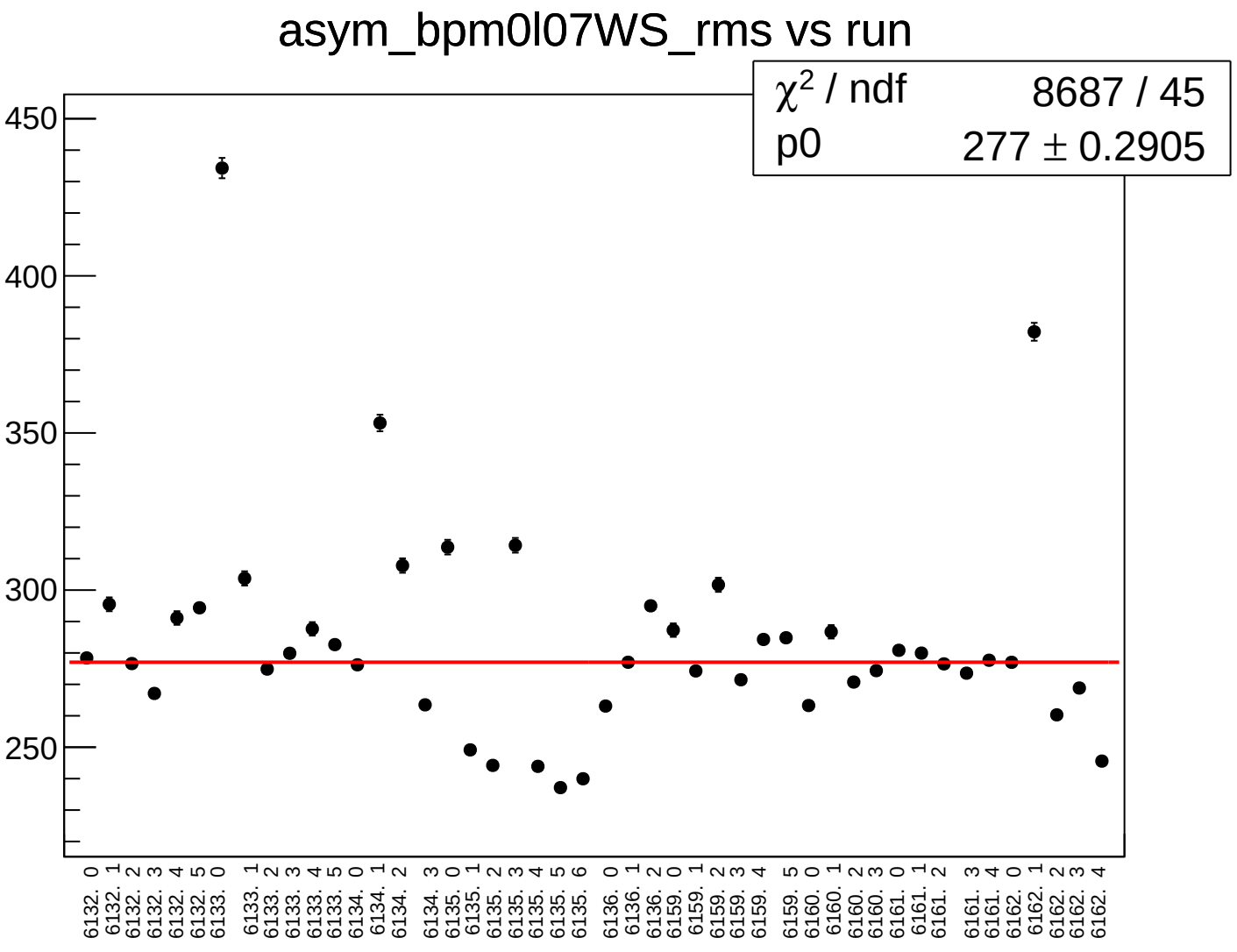
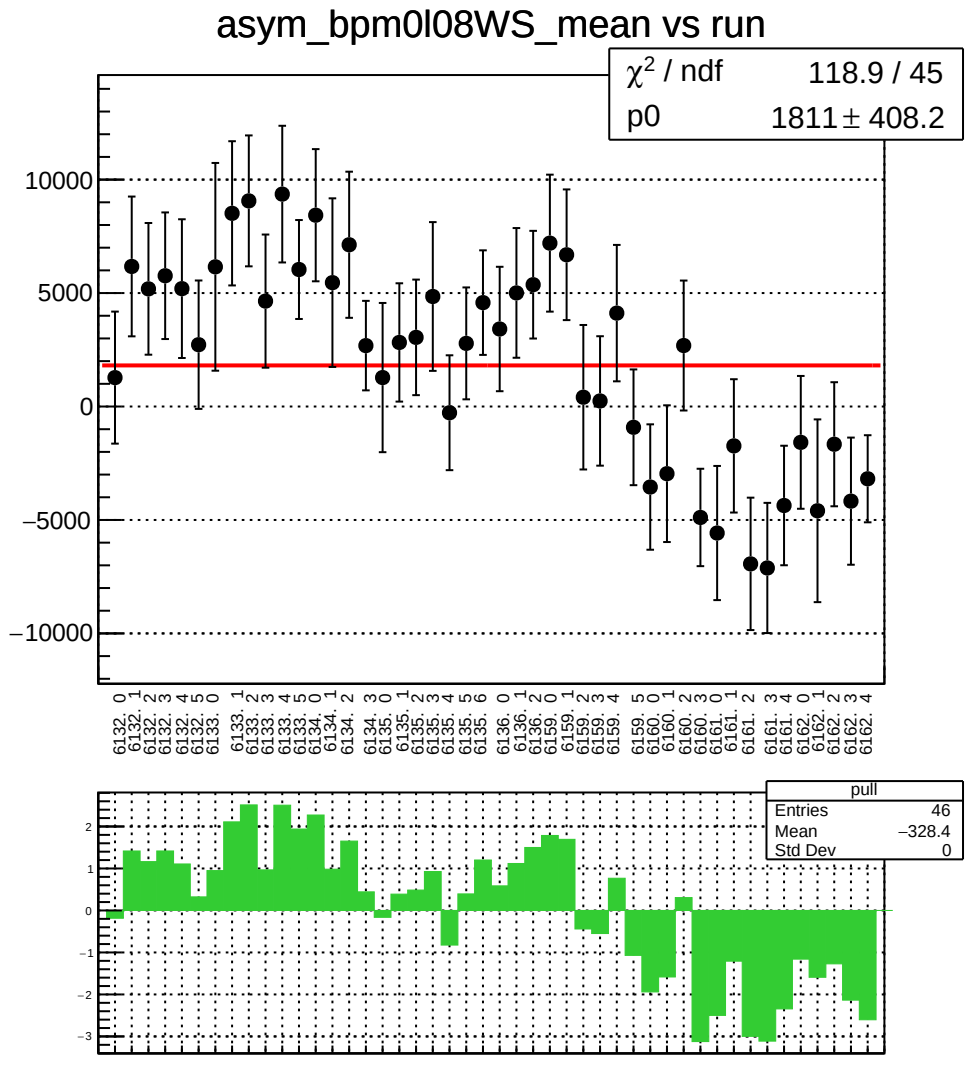
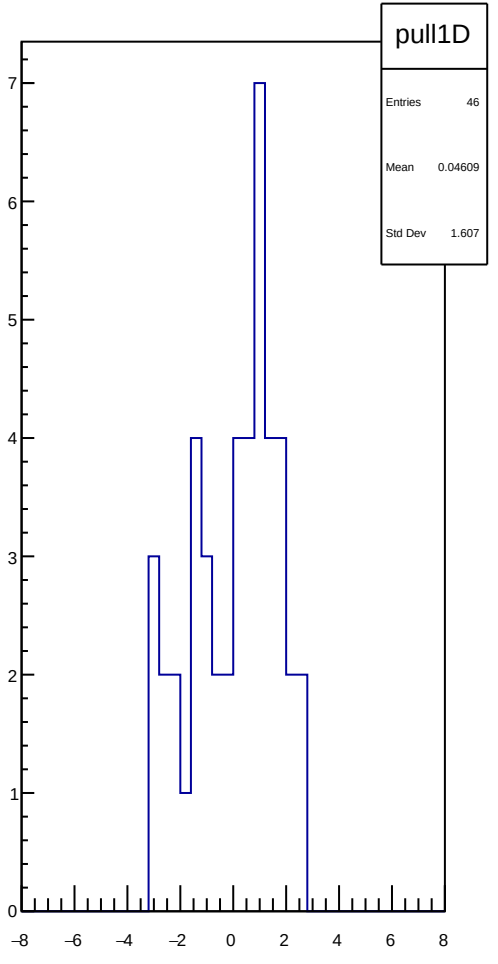
6162. 3
6162. 4

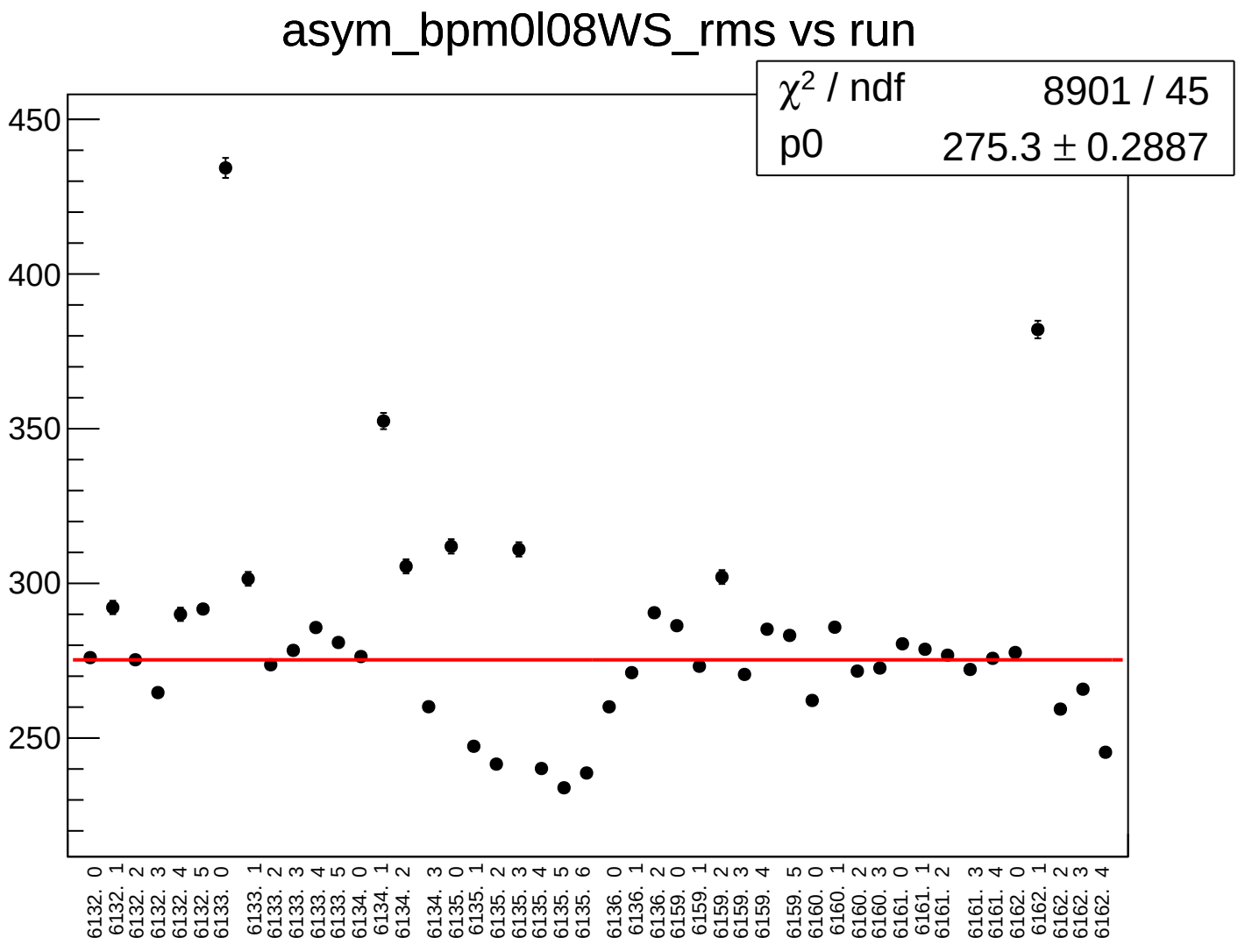

asym_bpm0l07WS_mean vs run
χ² / ndf 118.8 / 45
p0 1816 ± 410.8
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −364.8
Std Dev 0
2
1
0
−1
−2
−3

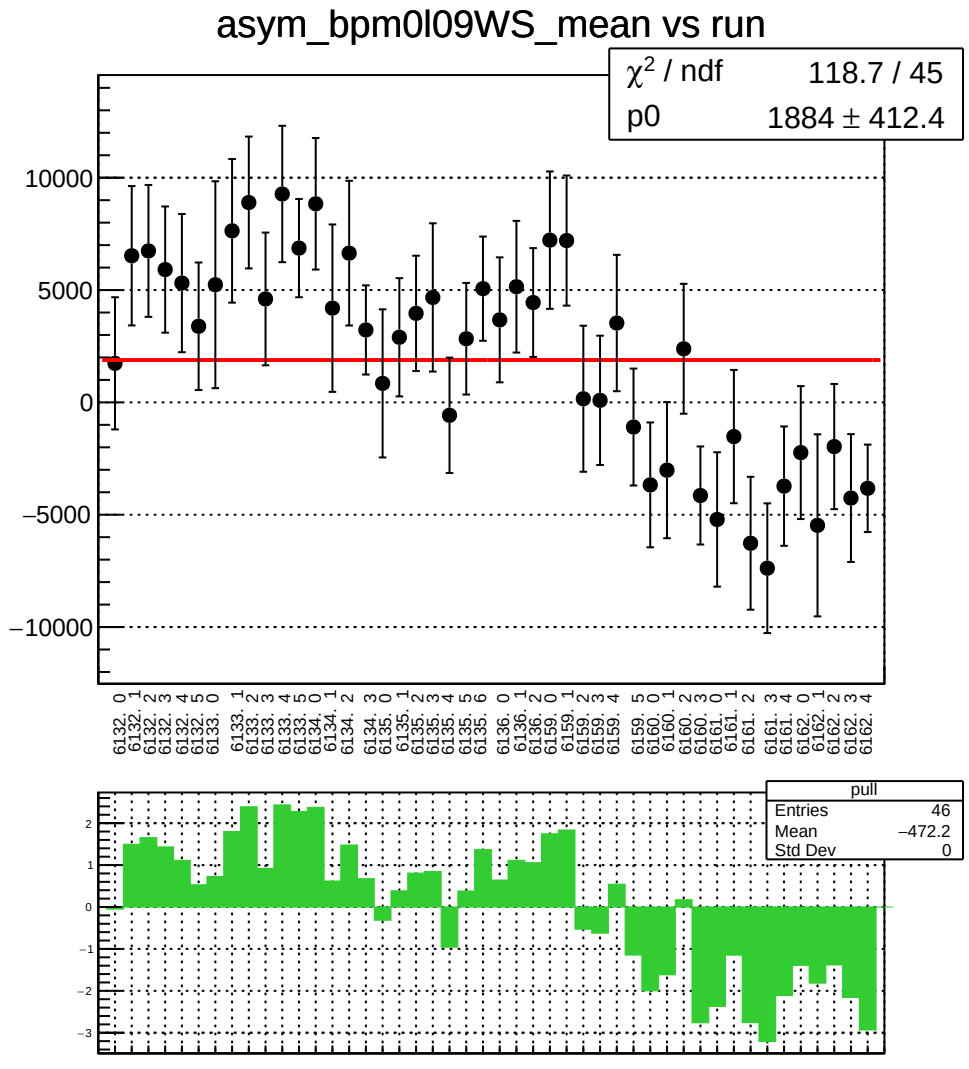

pull1D
Entries 46
Mean 0.04142
Std Dev 1.607
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

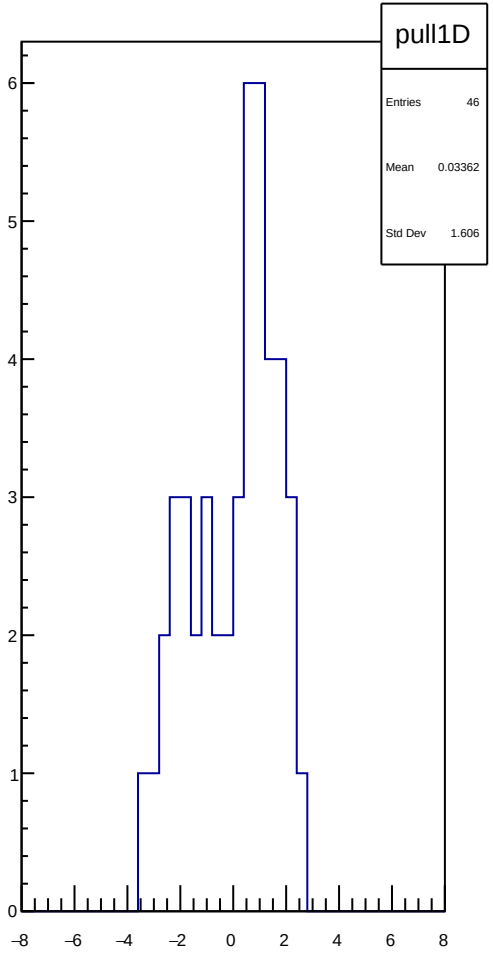

asym_bpm0l07WS_rms vs run
χ² / ndf 8687 / 45
p0 277 ± 0.2905
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

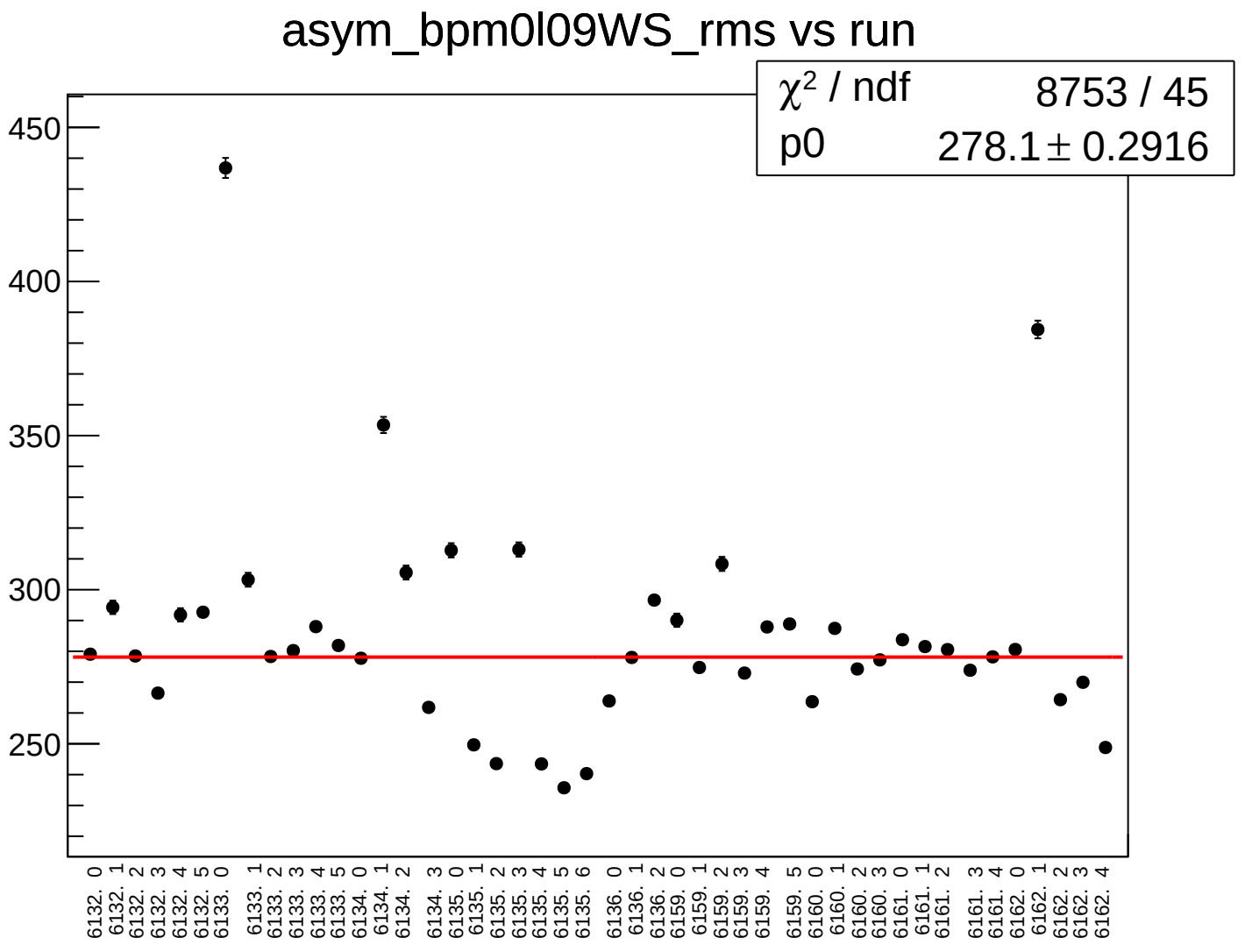

asym_bpm0l08WS_mean vs run
χ² / ndf 118.9 / 45
p0 1811 ± 408.2
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −328.4
Std Dev 0
2
1
0
−1
−2
−3

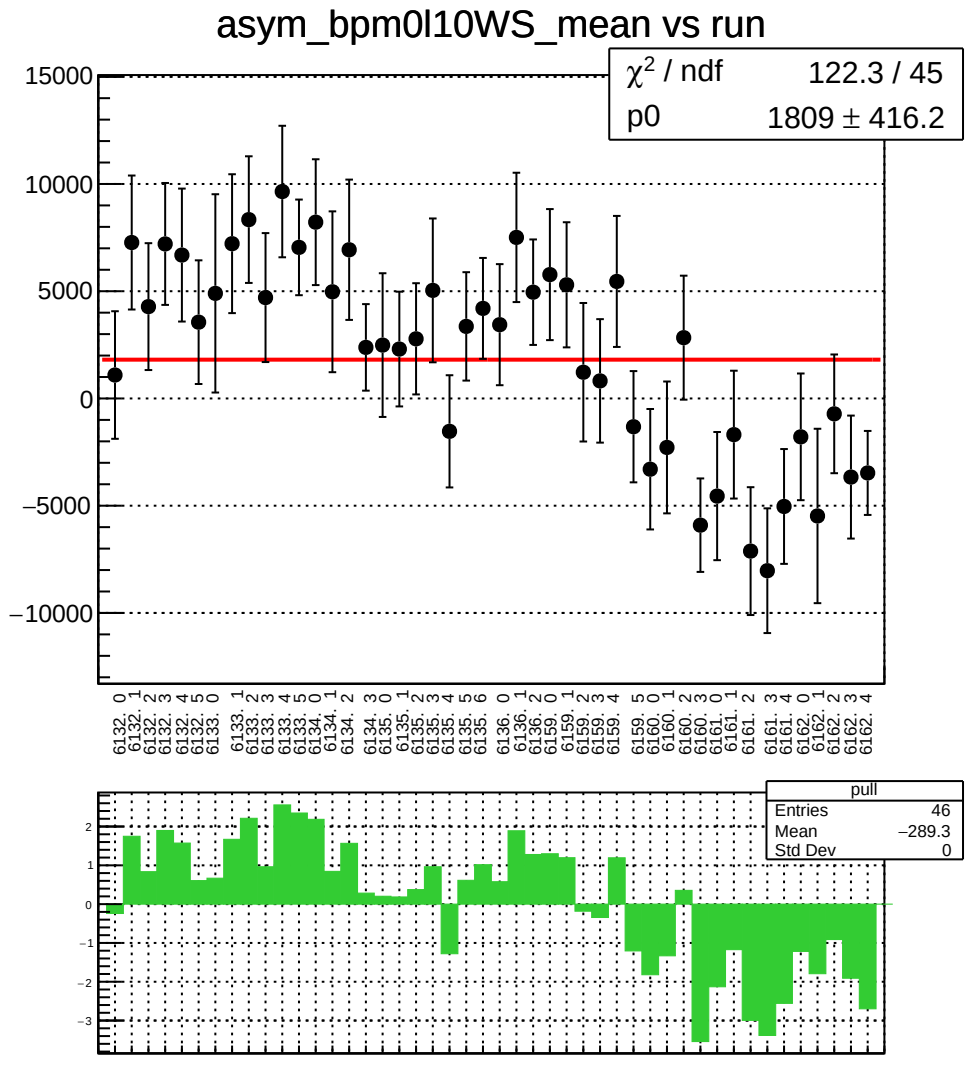

pull1D
Entries 46
Mean 0.04609
Std Dev 1.607
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

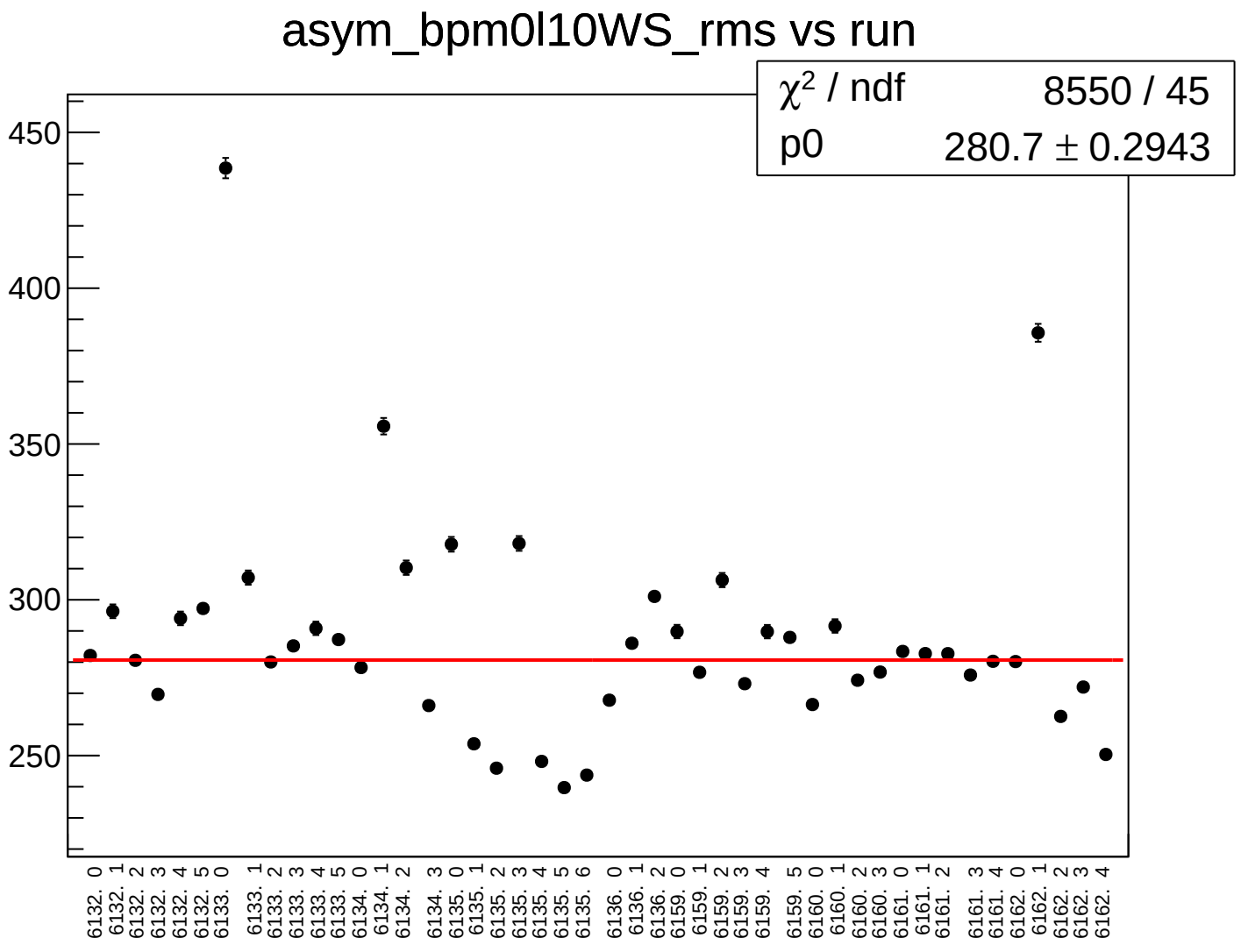

asym_bpm0l08WS_rms vs run
χ² / ndf 8901 / 45
p0 275.3 ± 0.2887
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

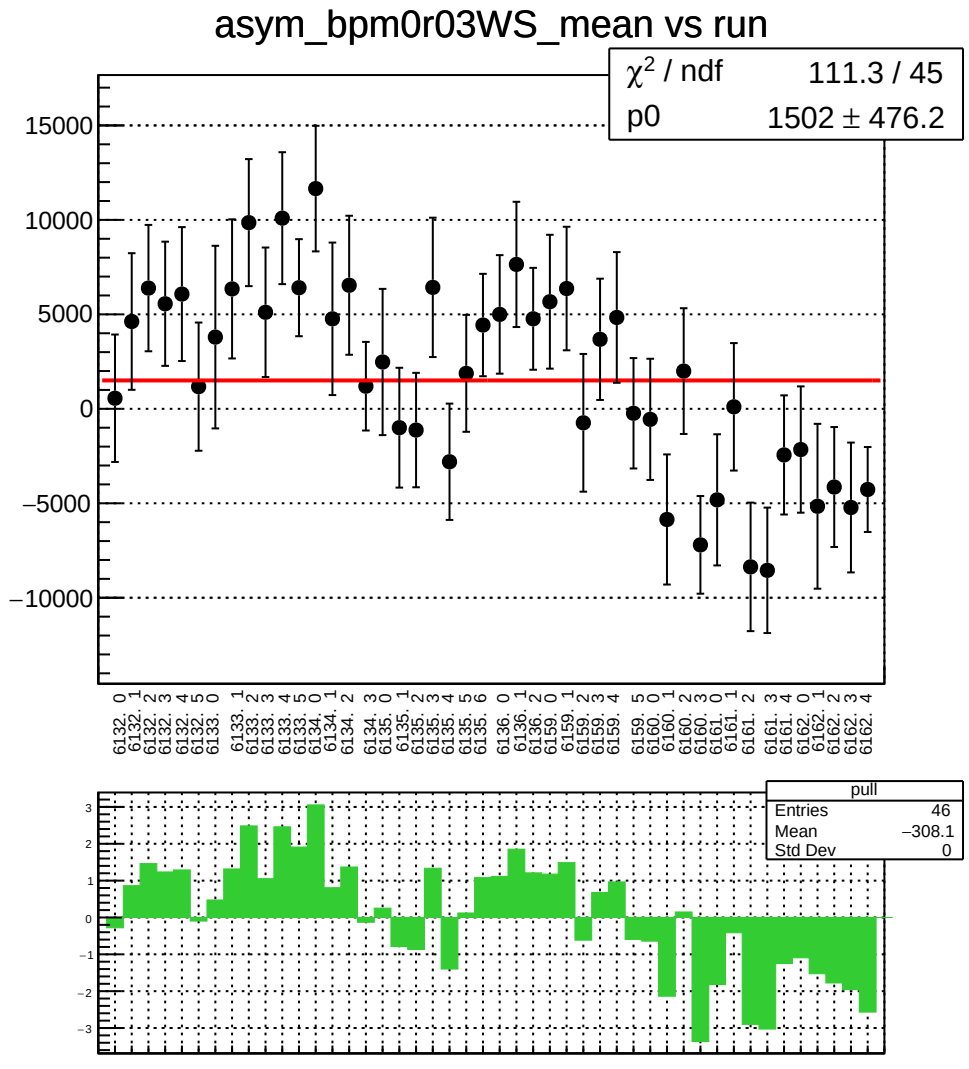

asym_bpm0l09WS_mean vs run
χ² / ndf 118.7 / 45
p0 1884 ± 412.4
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −472.2
Std Dev 0
2
1
0
−1
−2
−3

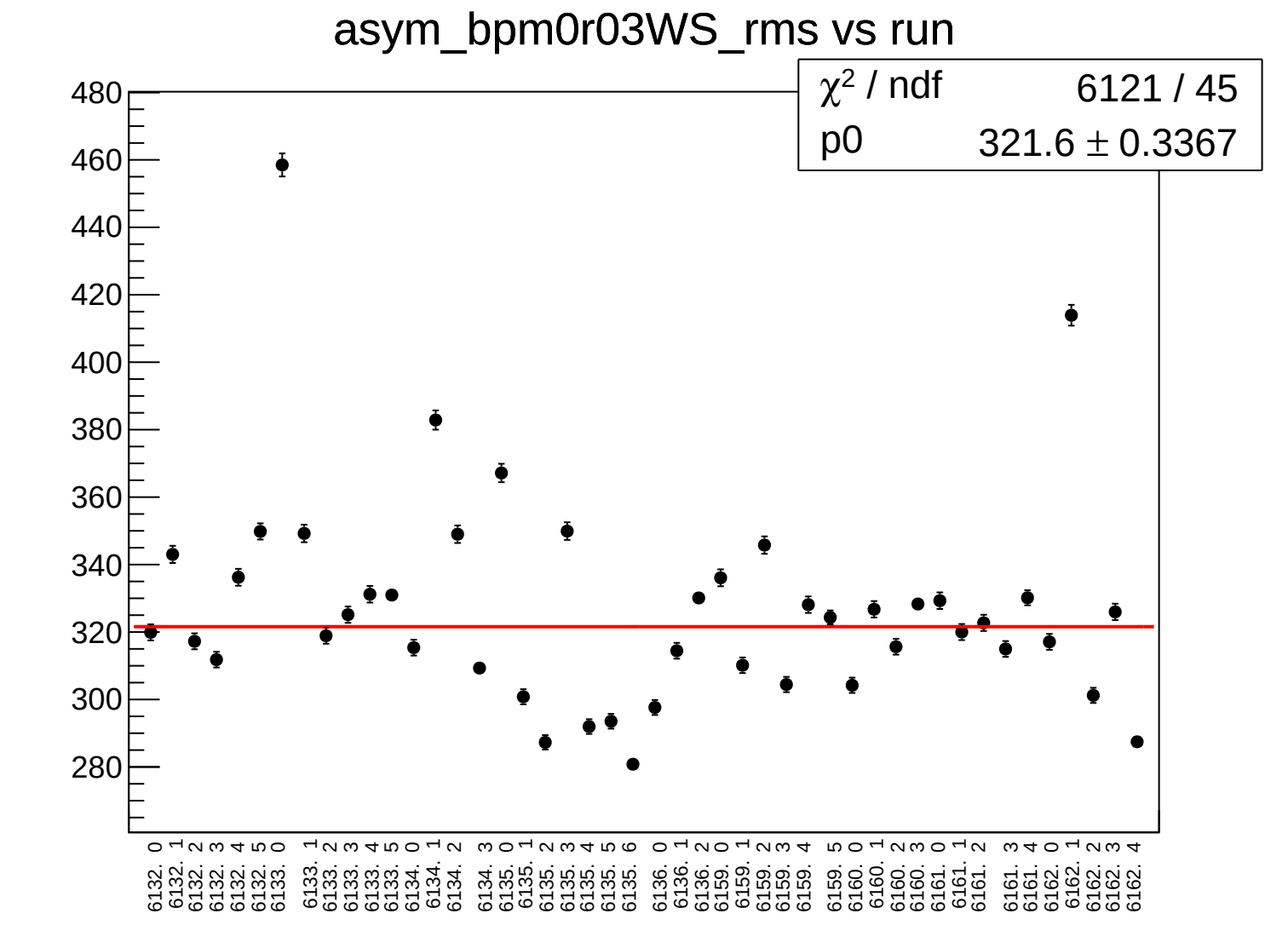

pull1D
Entries 46
Mean 0.03362
Std Dev 1.606
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

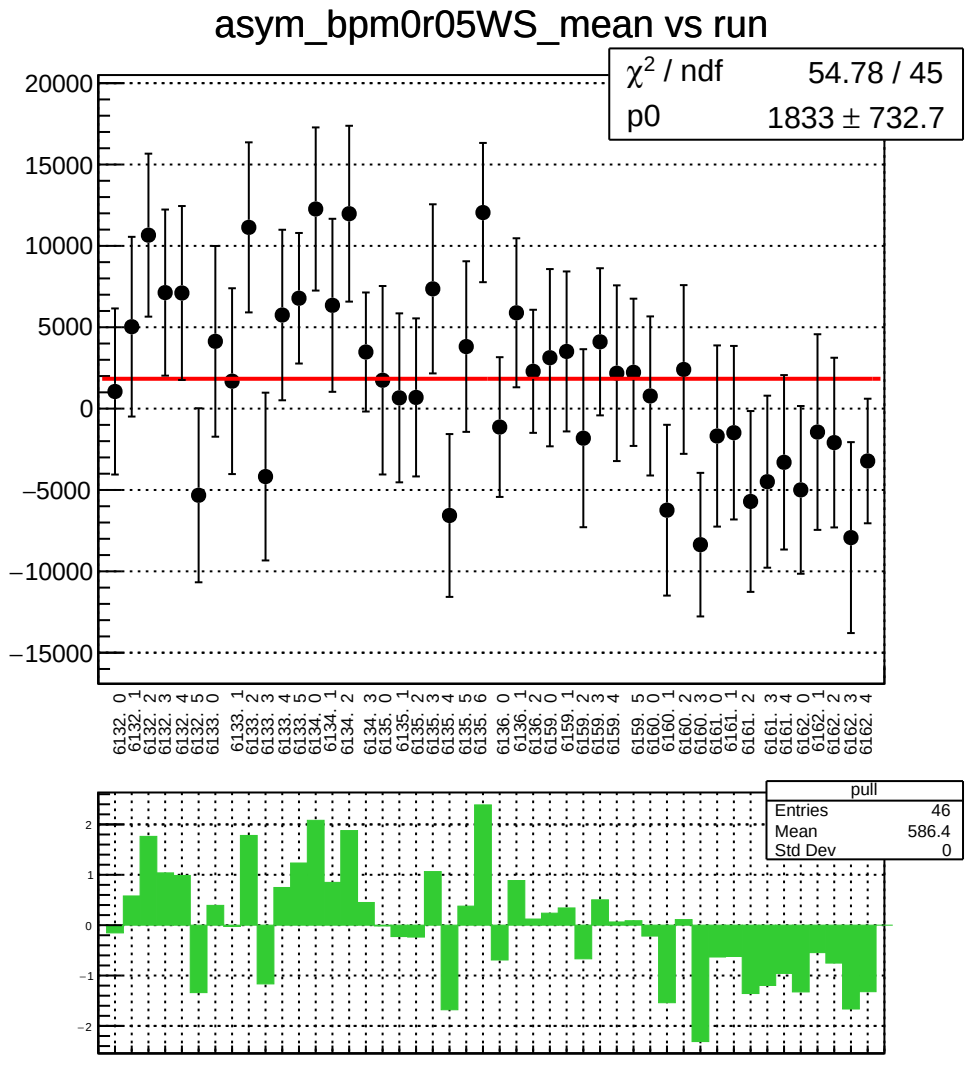

asym_bpm0l09WS_rms vs run
χ² / ndf 8753 / 45
p0 278.1 ± 0.2916
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bpm0l10WS_mean vs run
χ² / ndf 122.3 / 45
p0 1809 ± 416.2
15000
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −289.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean 0.05216
Std Dev 1.63
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l10WS_rms vs run
χ² / ndf 8550 / 45
p0 280.7 ± 0.2943
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bpm0r03WS_mean vs run
χ² / ndf 111.3 / 45
p0 1502 ± 476.2
15000
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −308.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean 0.04251
Std Dev 1.555
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0r03WS_rms vs run
χ² / ndf 6121 / 45
p0 321.6 ± 0.3367
480
460
440
420
400
380
360
340
320
300
280
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bpm0r05WS_mean vs run
χ² / ndf 54.78 / 45
p0 1833 ± 732.7
20000
15000
10000
5000
0
−5000
−10000
−15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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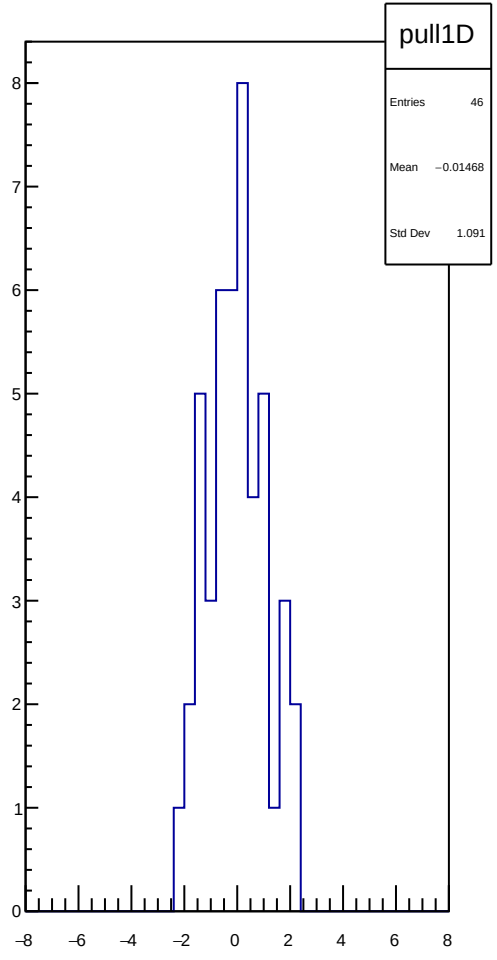
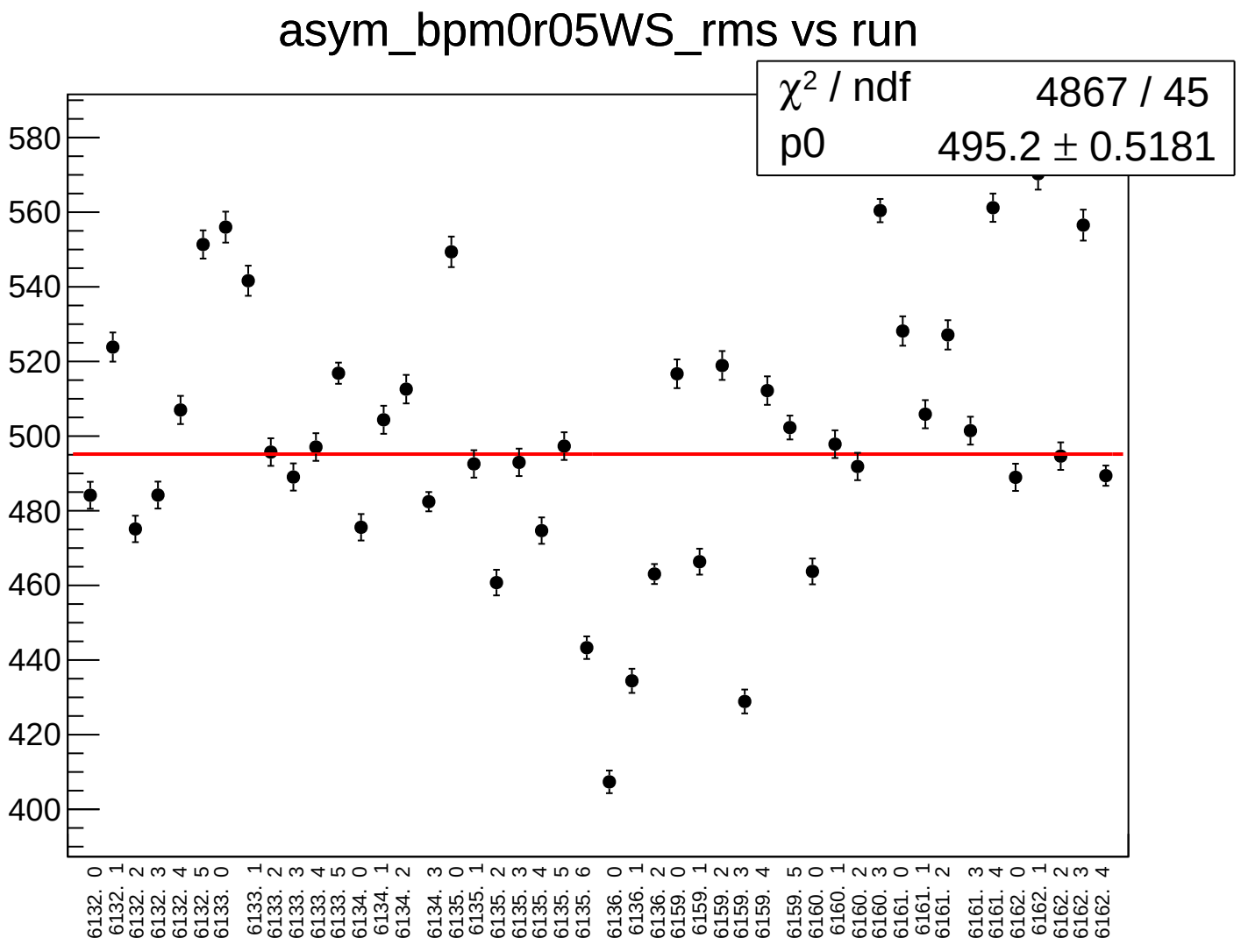
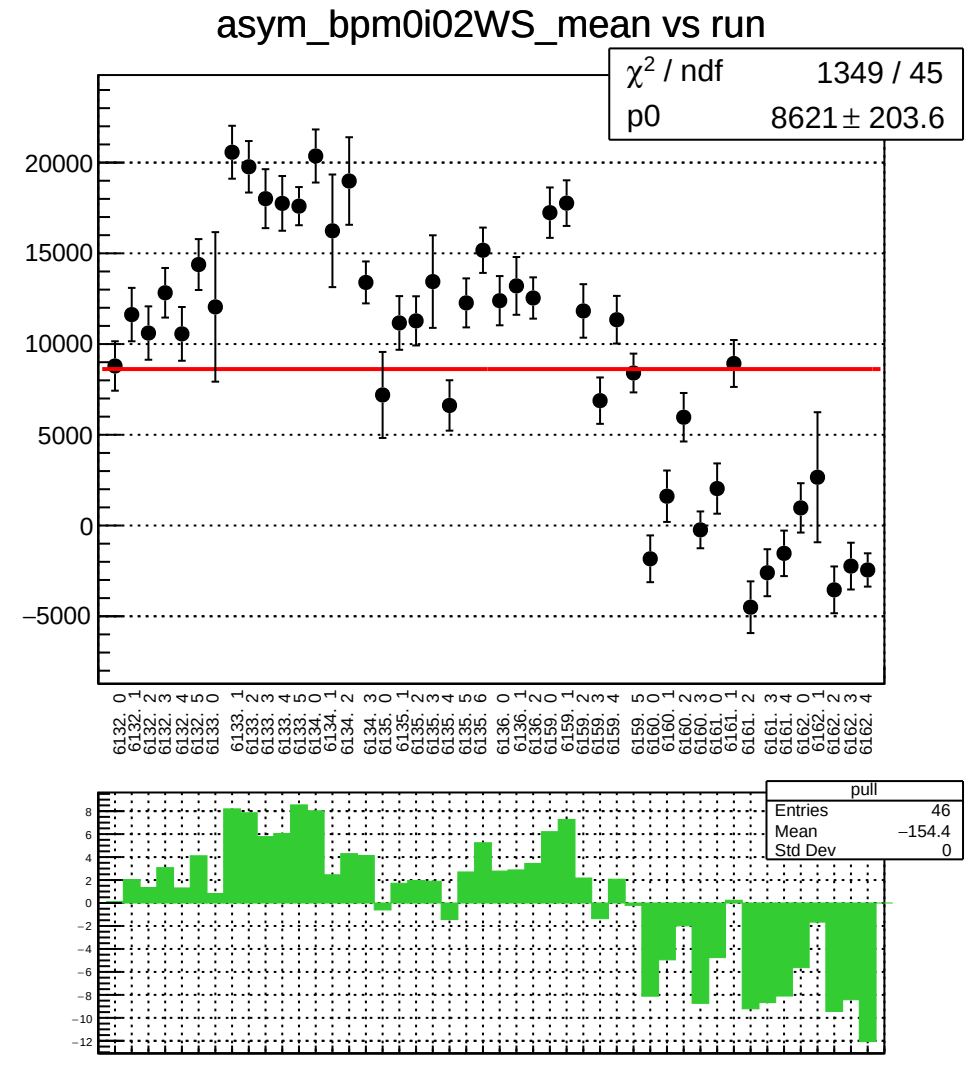
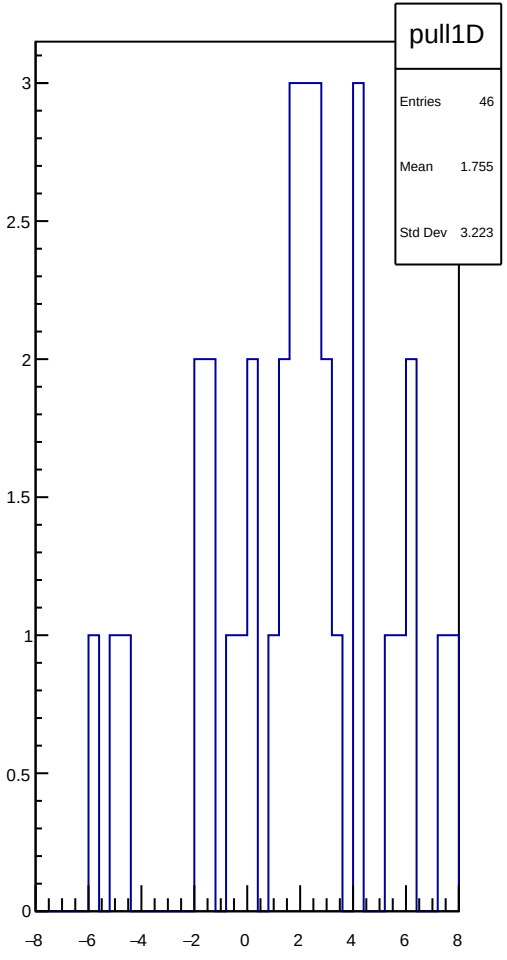
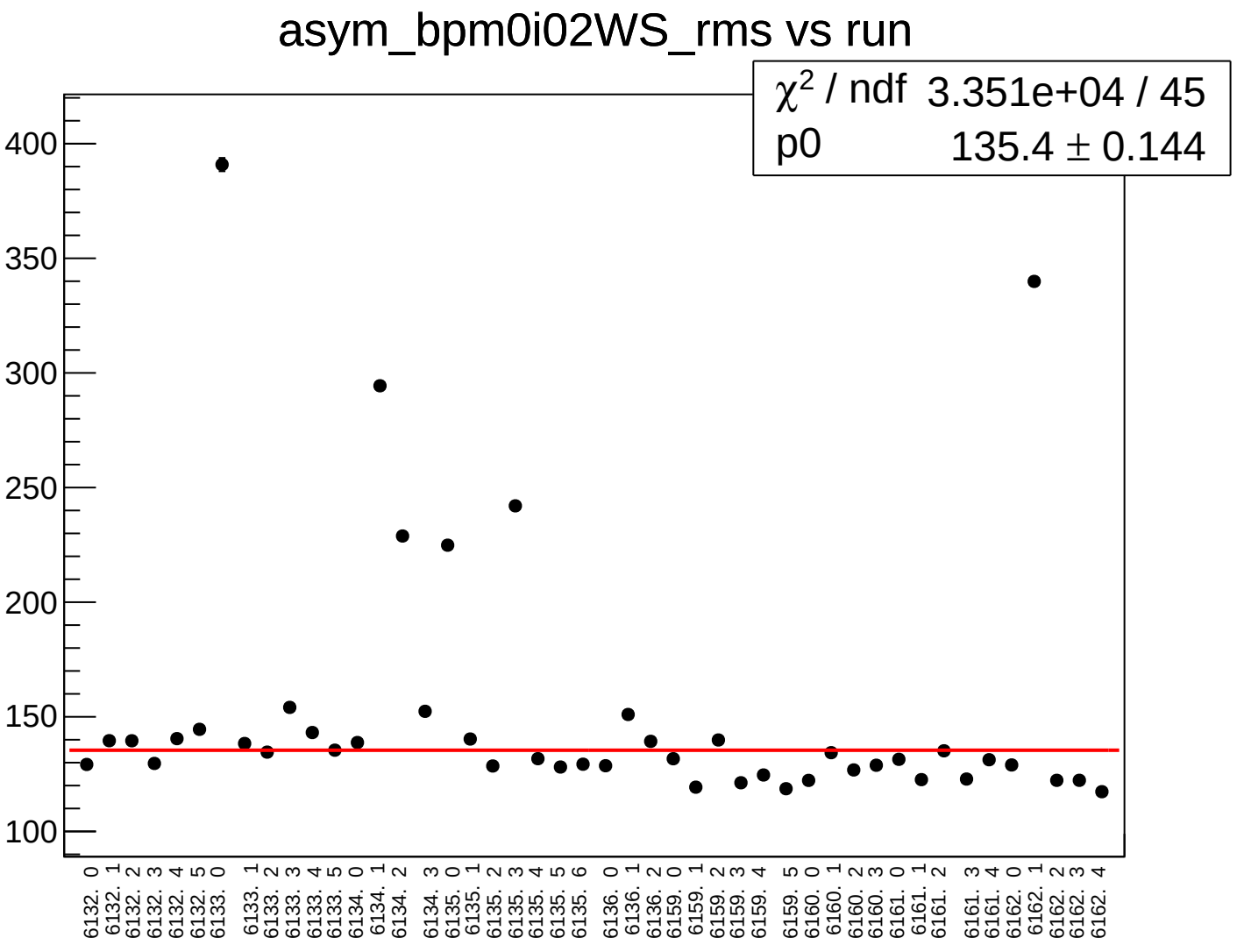
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 586.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.01468
Std Dev 1.091
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0r05WS_rms vs run
χ² / ndf 4867 / 45
p0 495.2 ± 0.5181
580
560
540
520
500
480
460
440
420
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bpm0i02WS_mean vs run
χ² / ndf 1349 / 45
p0 8621 ± 203.6
20000
15000
10000
5000
0
−5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −154.4
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10
−12


pull1D
Entries 46
Mean 1.755
Std Dev 3.223
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i02WS_rms vs run
χ² / ndf 3.351e+04 / 45
p0 135.4 ± 0.144
400
350
300
250
200
150
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 1
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6133. 3
6133. 4
6133. 5
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6134. 1
6134. 2
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6135. 0
6135. 1
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6136. 0
6136. 1
6136. 2
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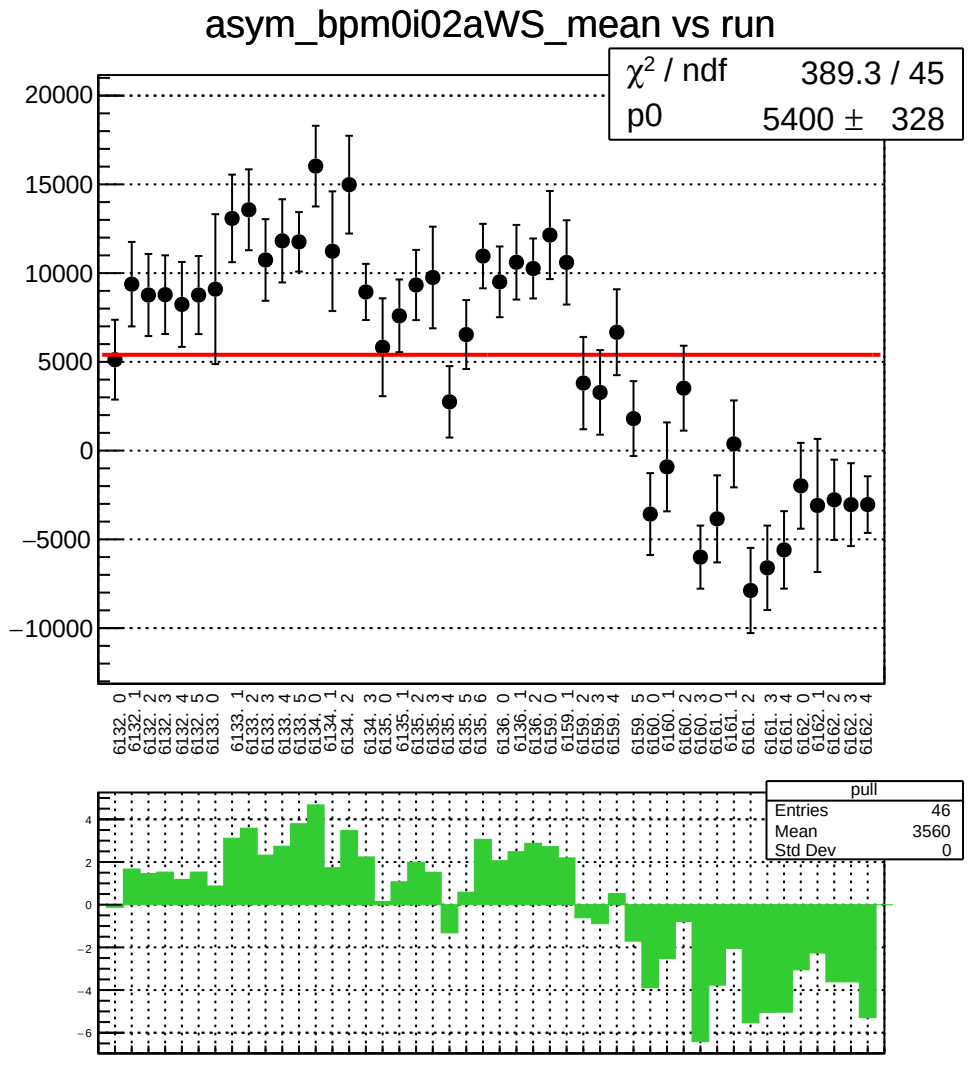
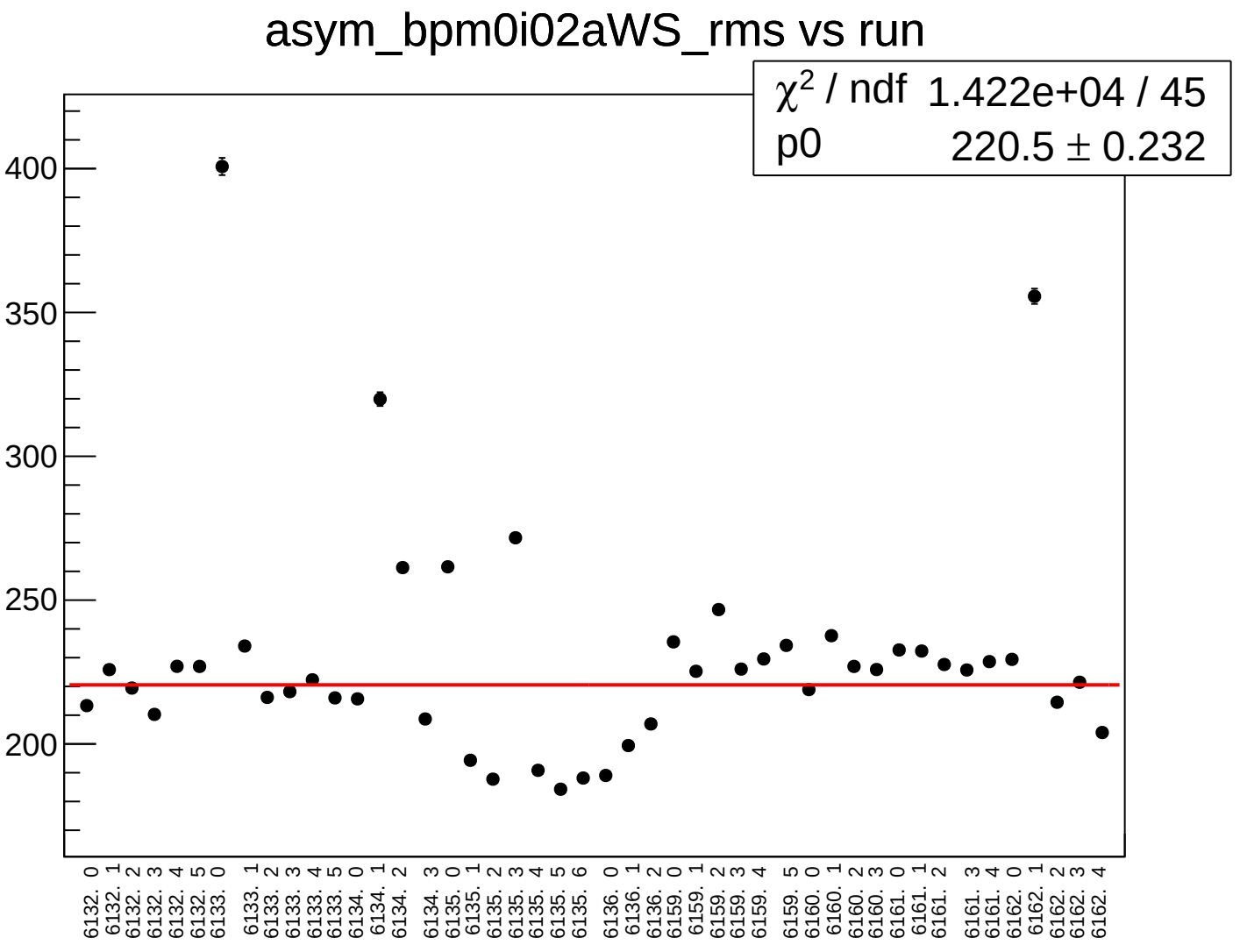
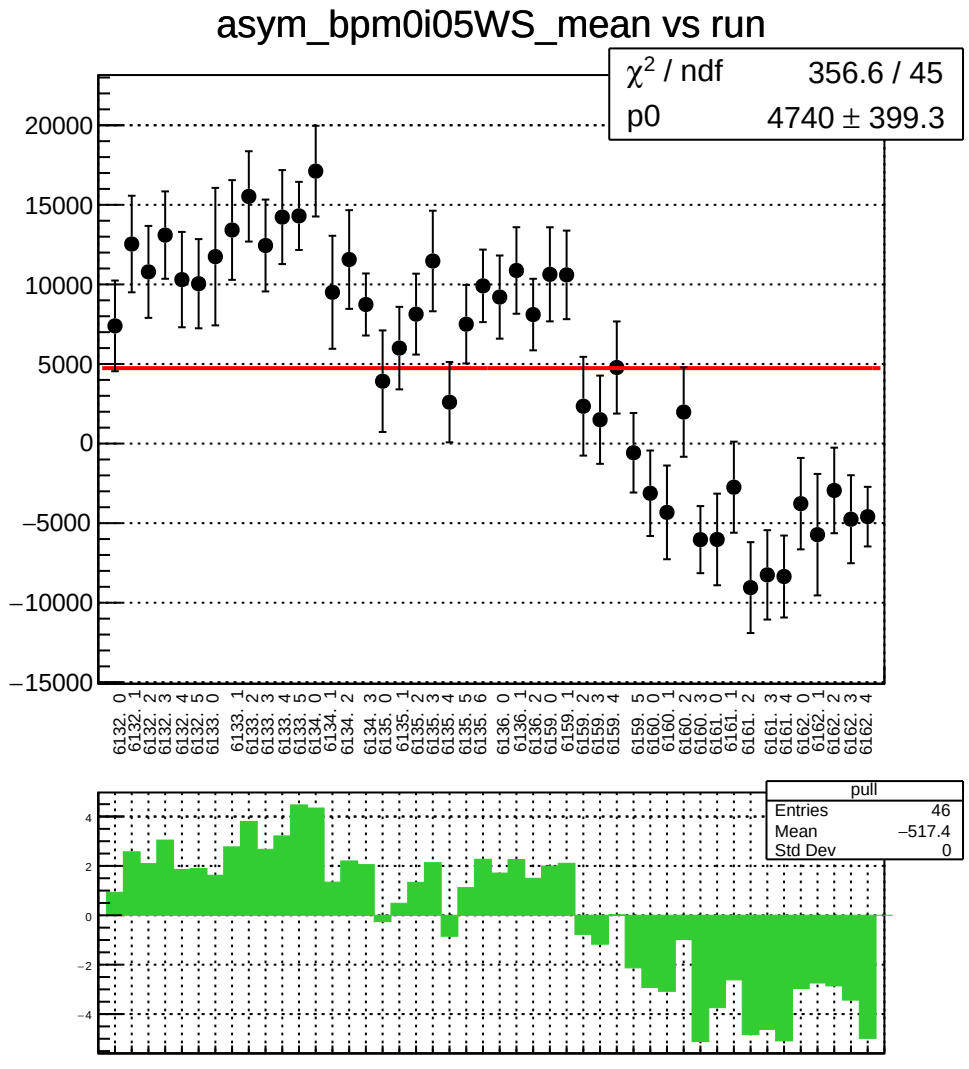
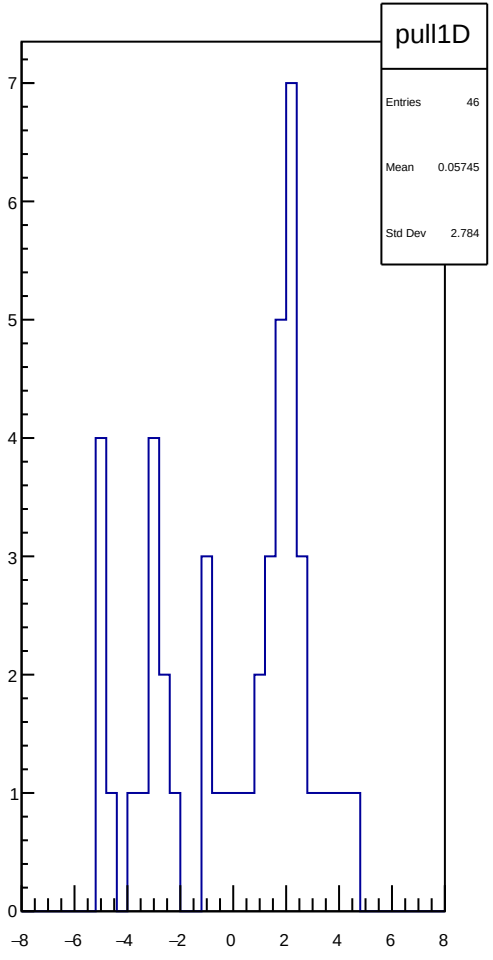
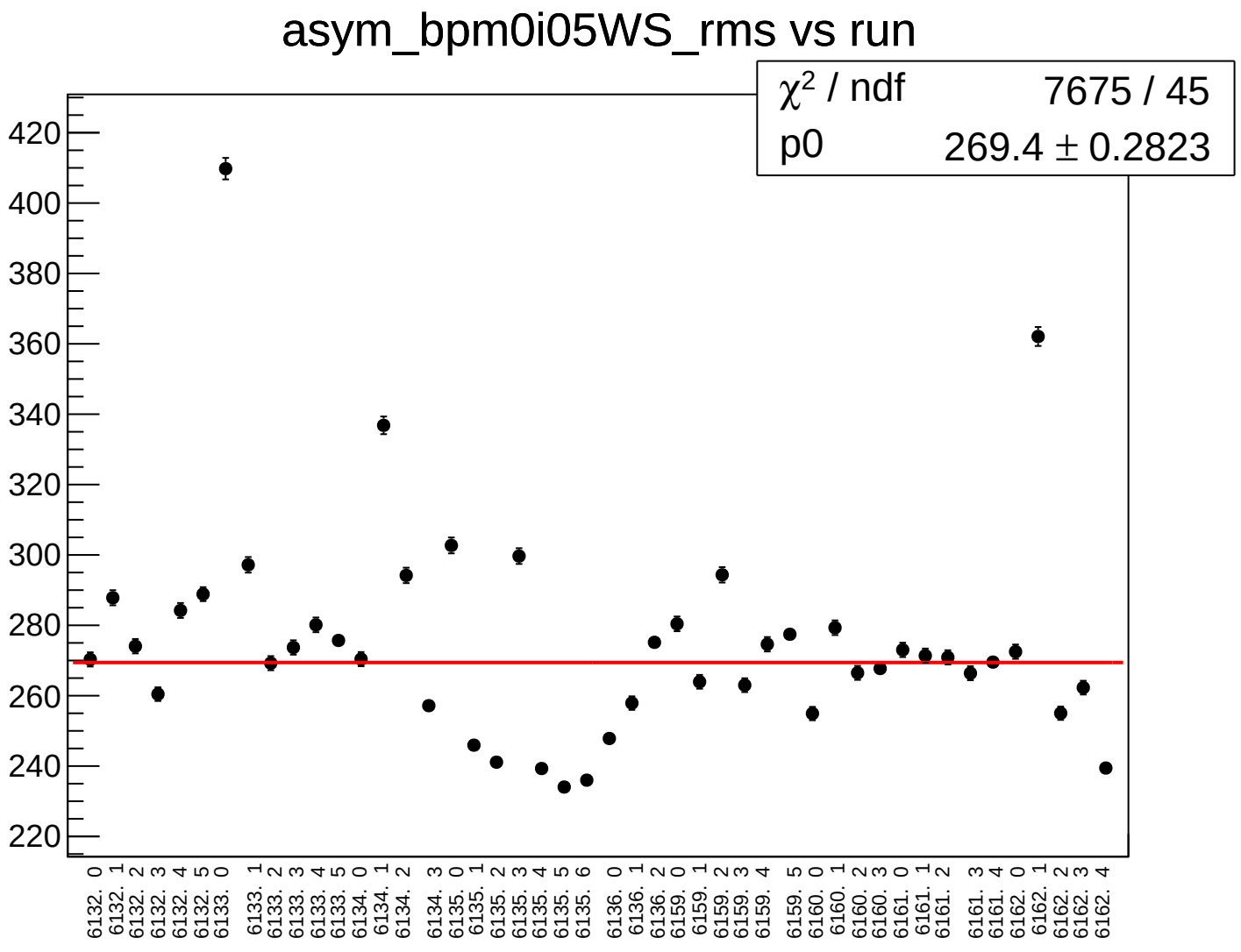
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

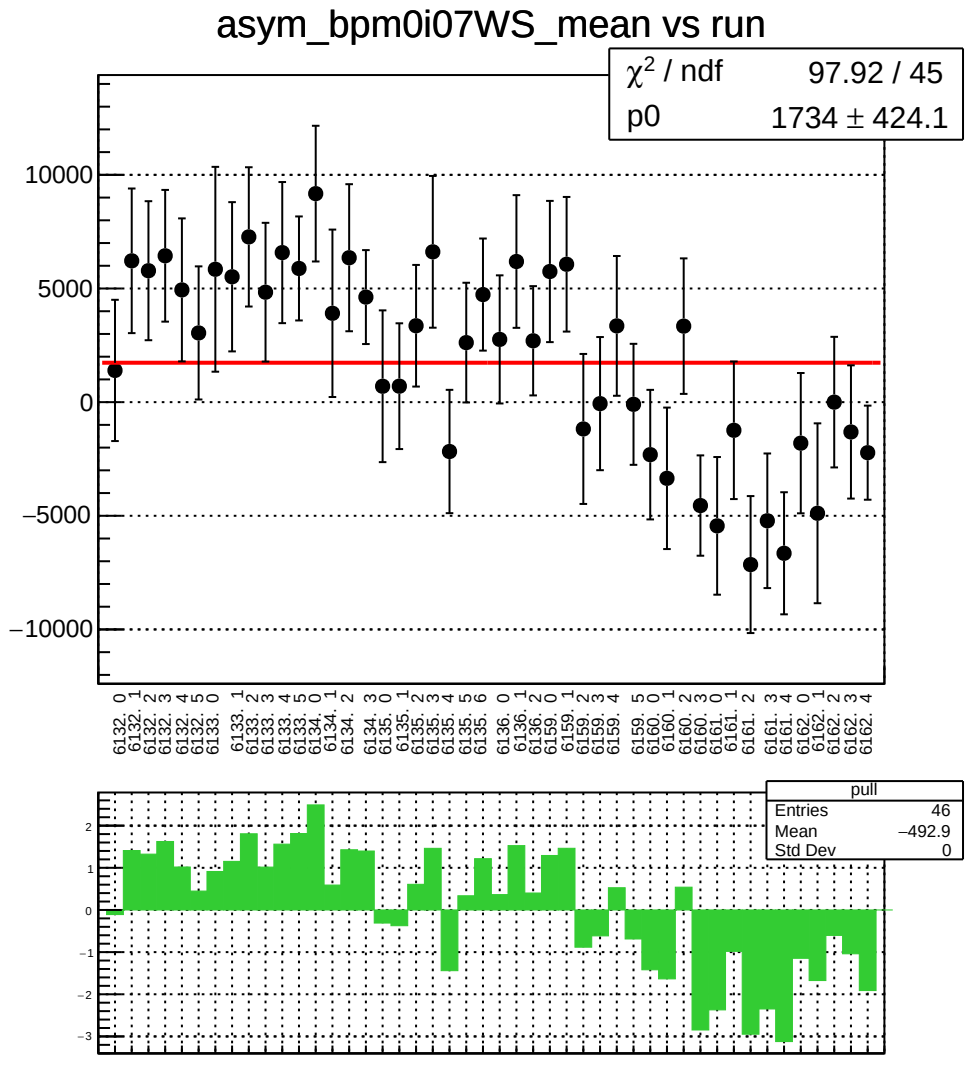

asym_bpm0i02aWS_mean vs run
χ² / ndf 389.3 / 45
p0 5400 ± 328
20000
15000
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 3560
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 46
Mean −0.008284
Std Dev 2.909
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

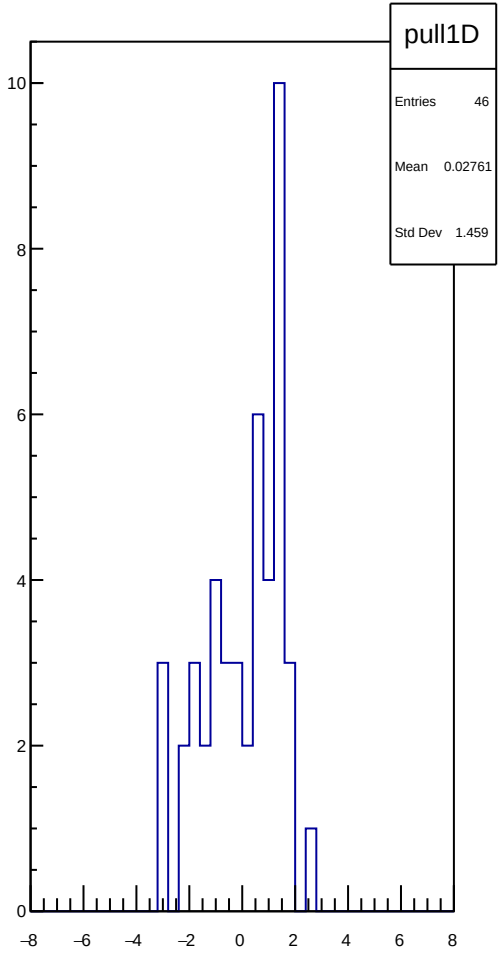

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.422e+04 / 45
p0 220.5 ± 0.232
400
350
300
250
200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

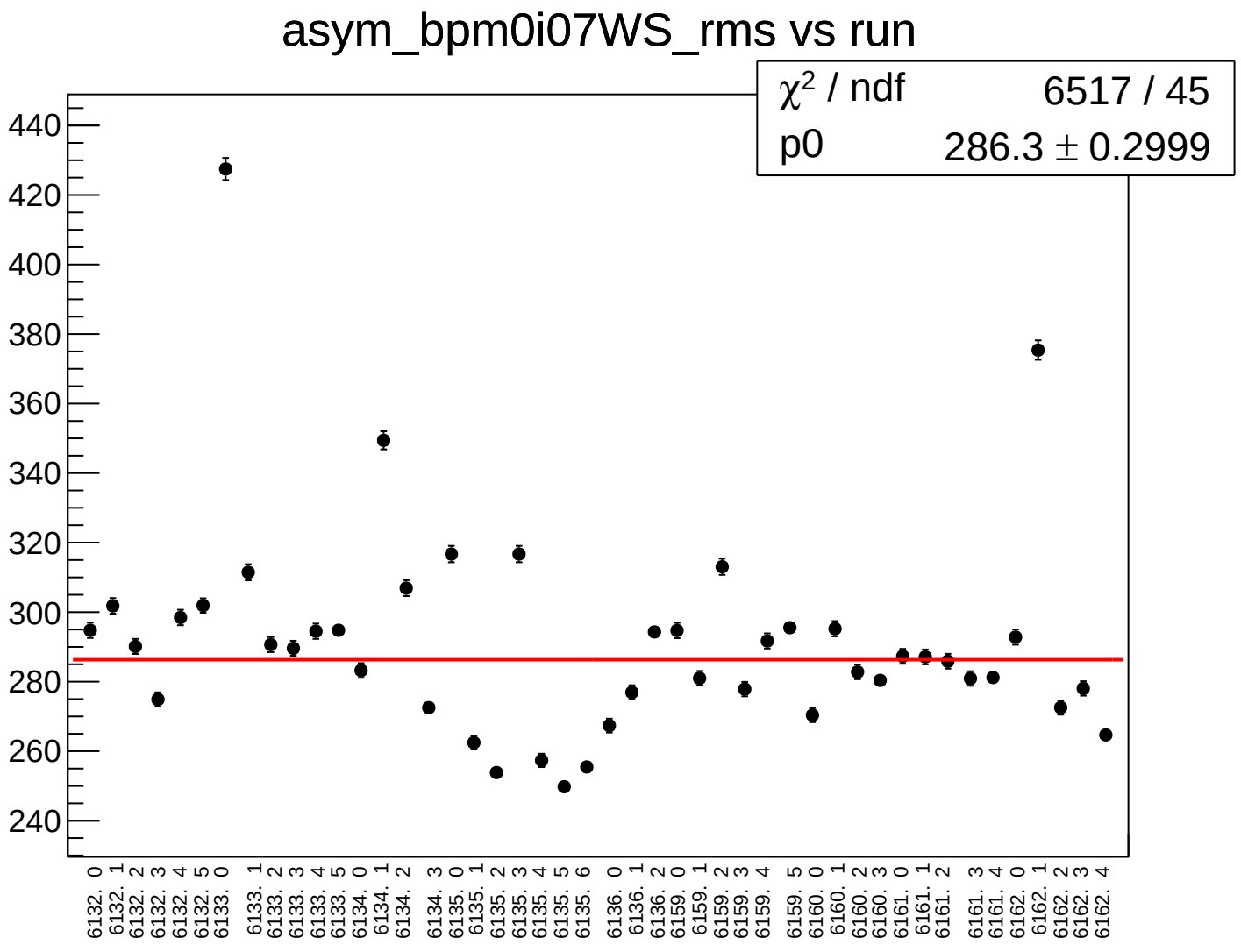

asym_bpm0i05WS_mean vs run
χ² / ndf 356.6 / 45
p0 4740 ± 399.3
pull
Entries 46
Mean −517.4
Std Dev 0

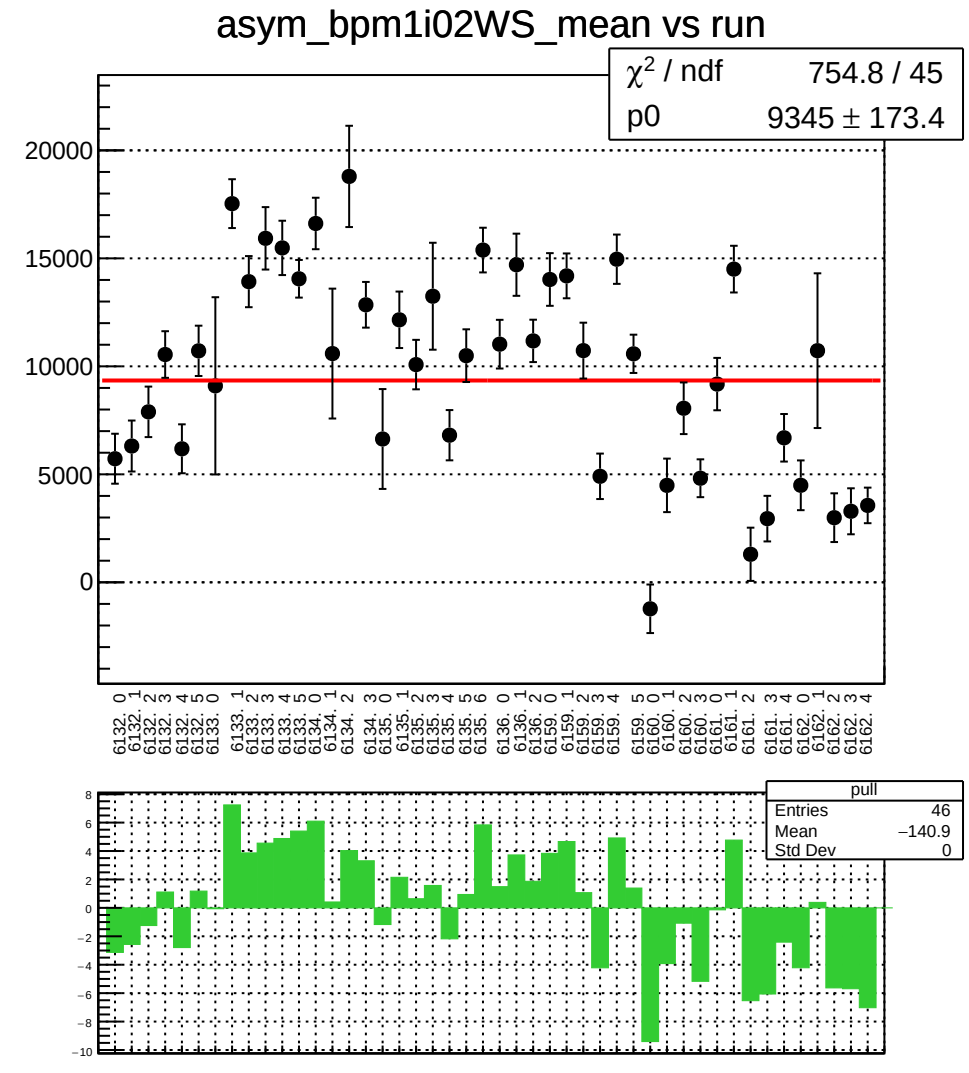

pull1D
Entries 46
Mean 0.05745
Std Dev 2.784

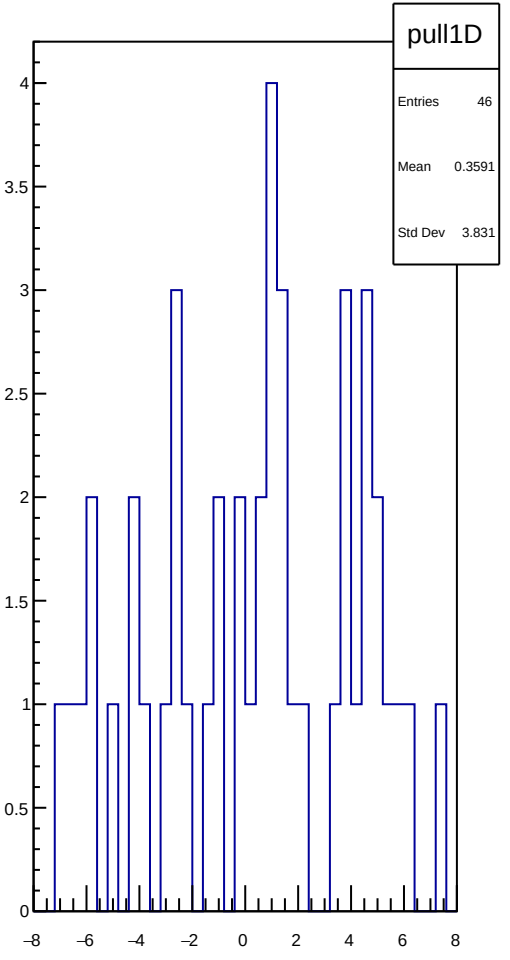

asym_bpm0i05WS_rms vs run
χ² / ndf 7675 / 45
p0 269.4 ± 0.2823
420
400
380
360
340
320
300
280
260
240
220
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

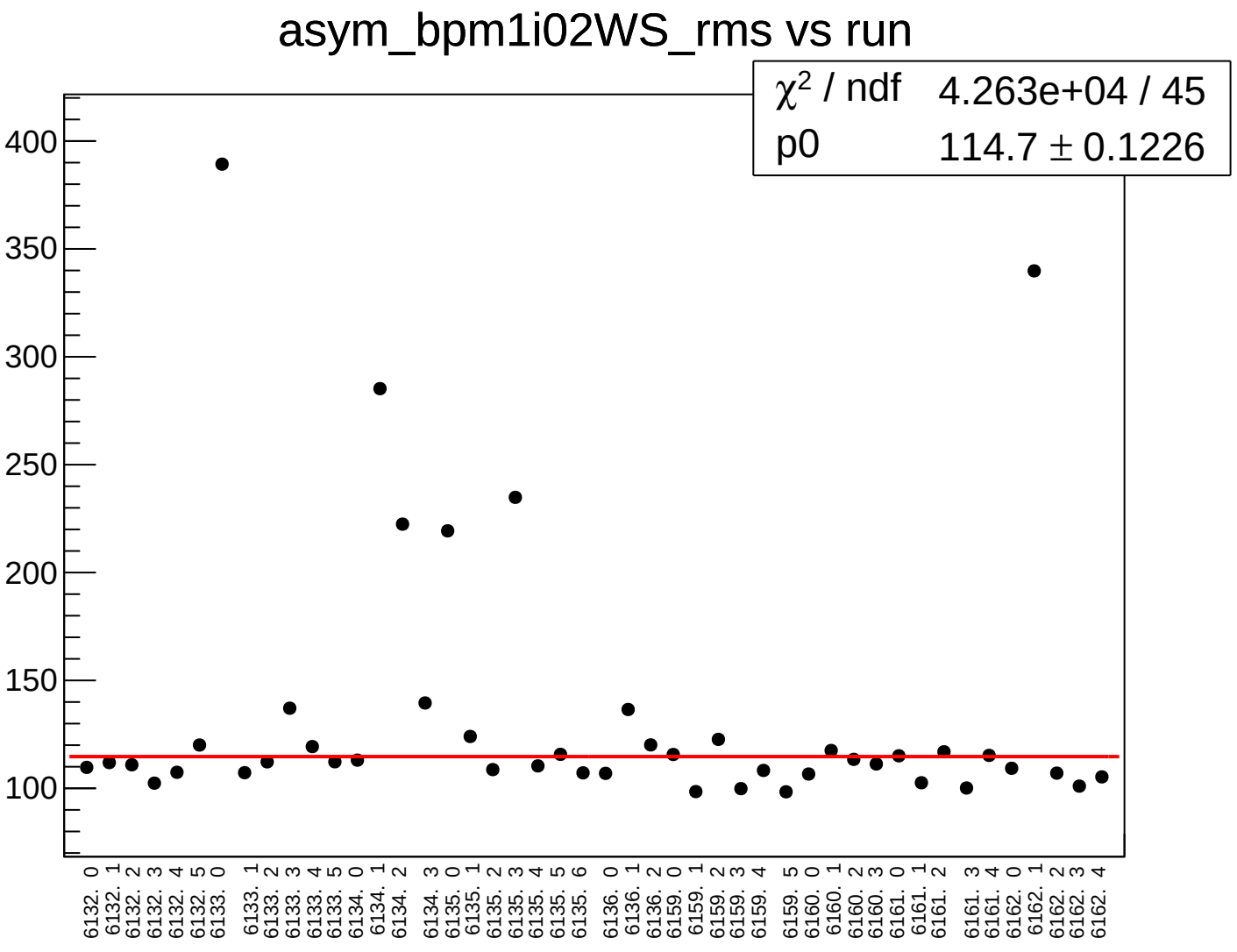

asym_bpm0i07WS_mean vs run
χ² / ndf 97.92 / 45
p0 1734 ± 424.1
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −492.9
Std Dev 0
2
1
0
−1
−2
−3

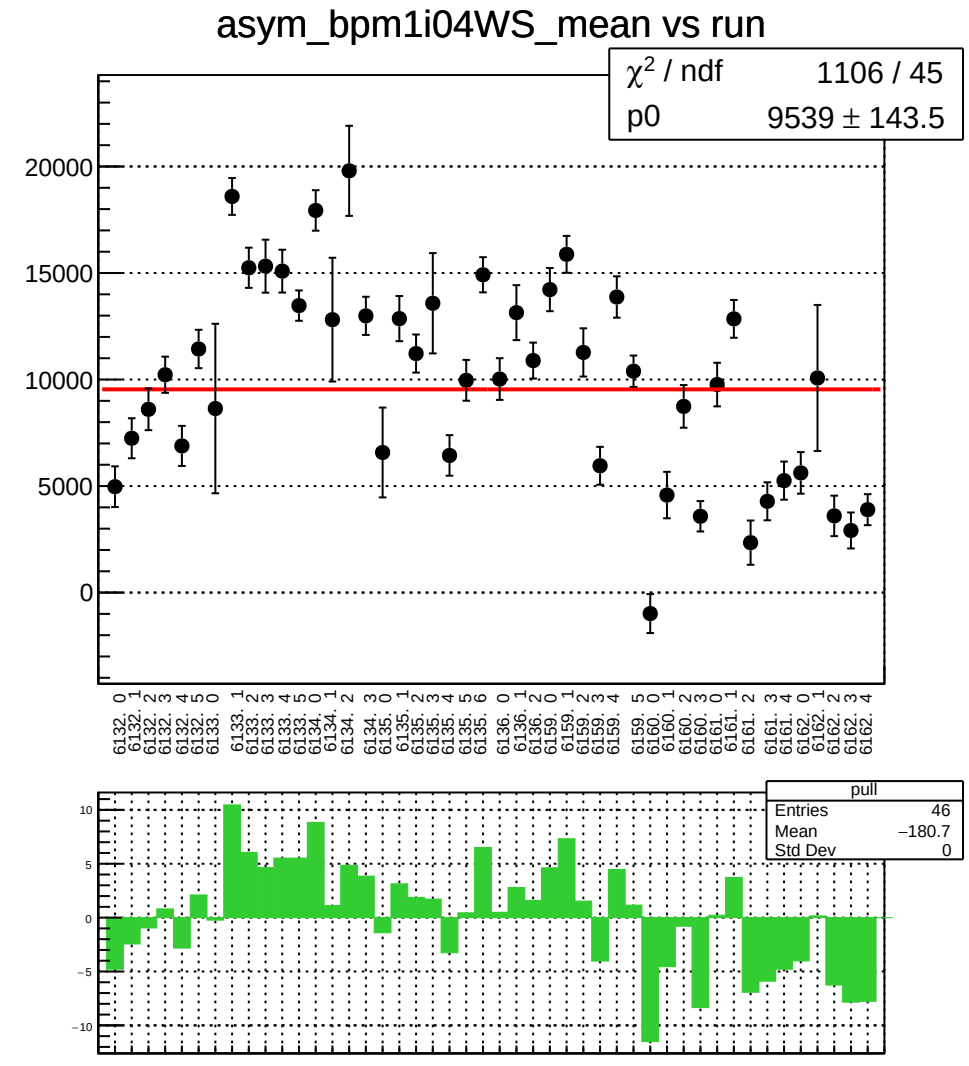

pull1D
Entries 46
Mean 0.02761
Std Dev 1.459
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

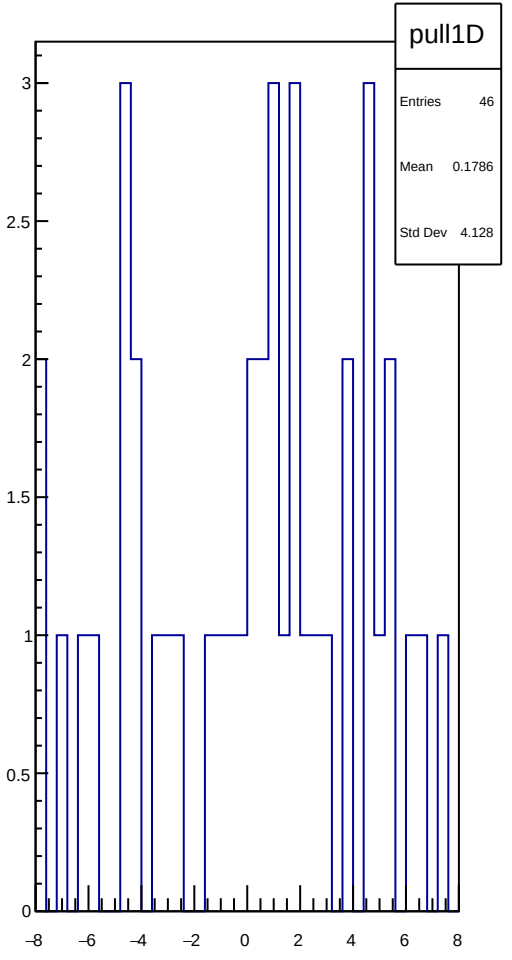

asym_bpm0i07WS_rms vs run
χ² / ndf 6517 / 45
p0 286.3 ± 0.2999
440
420
400
380
360
340
320
300
280
260
240
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

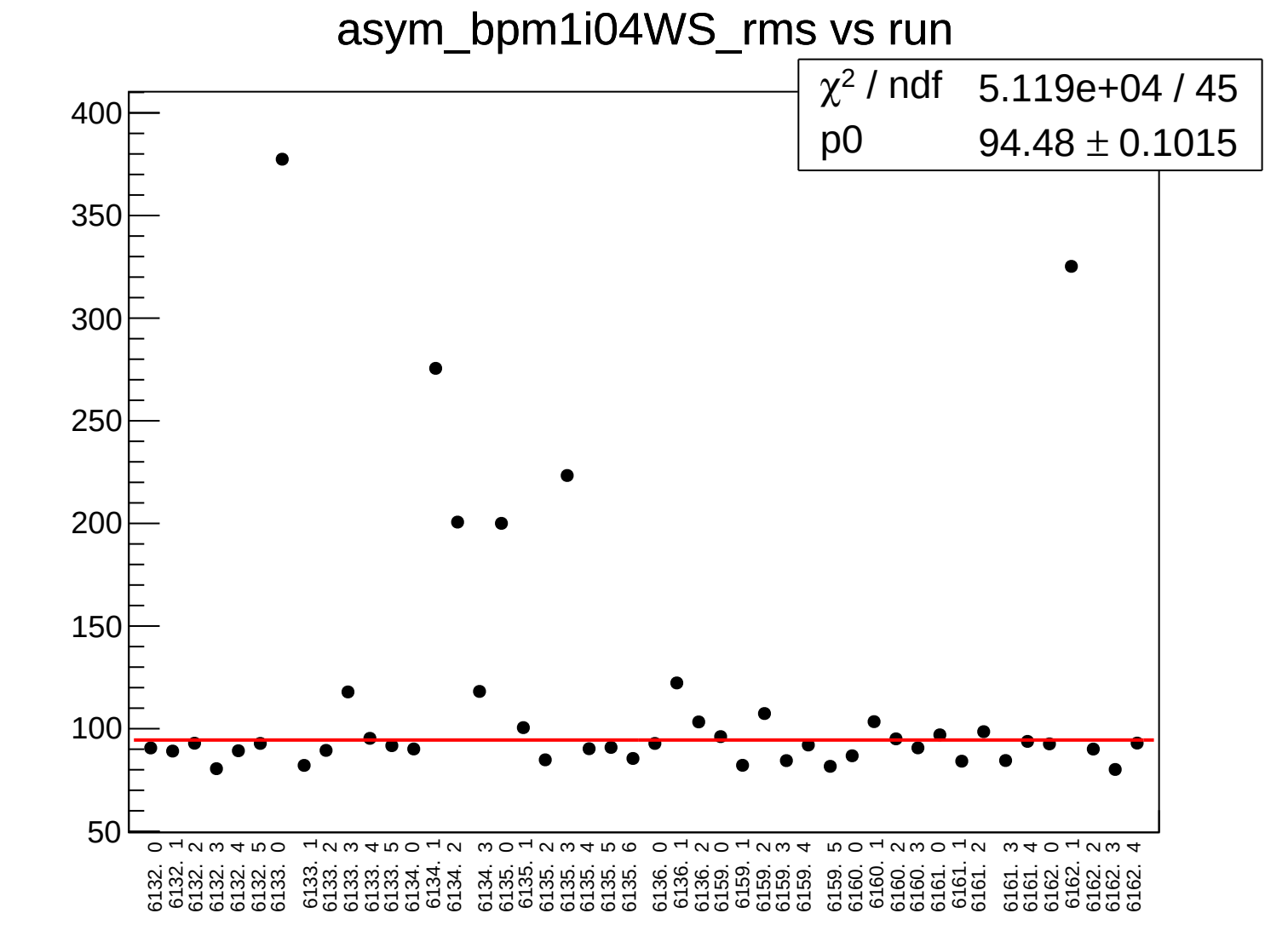

asym_bpm1i02WS_mean vs run
χ² / ndf 754.8 / 45
p0 9345 ± 173.4
20000
15000
10000
5000
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −140.9
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10

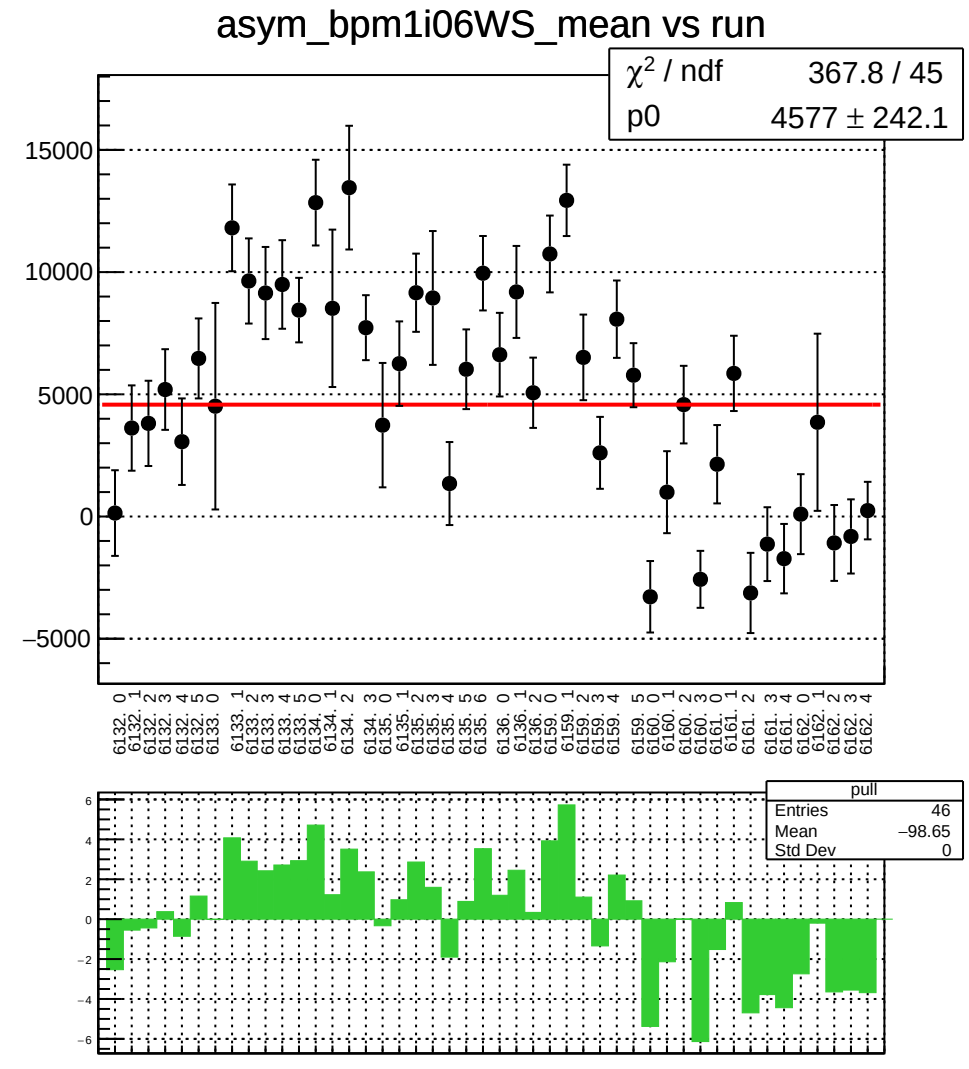

pull1D
Entries 46
Mean 0.3591
Std Dev 3.831
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

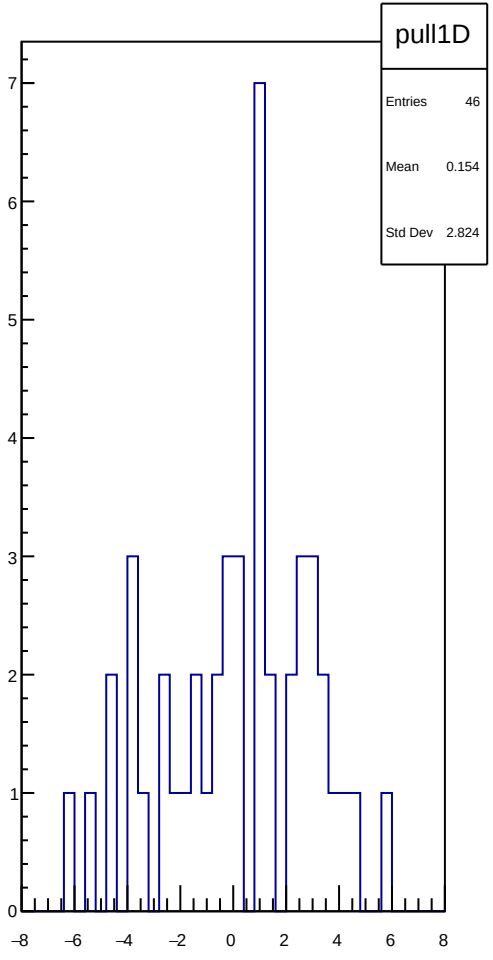

asym_bpm1i02WS_rms vs run
χ² / ndf 4.263e+04 / 45
p0 114.7 ± 0.1226
400
350
300
250
200
150
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

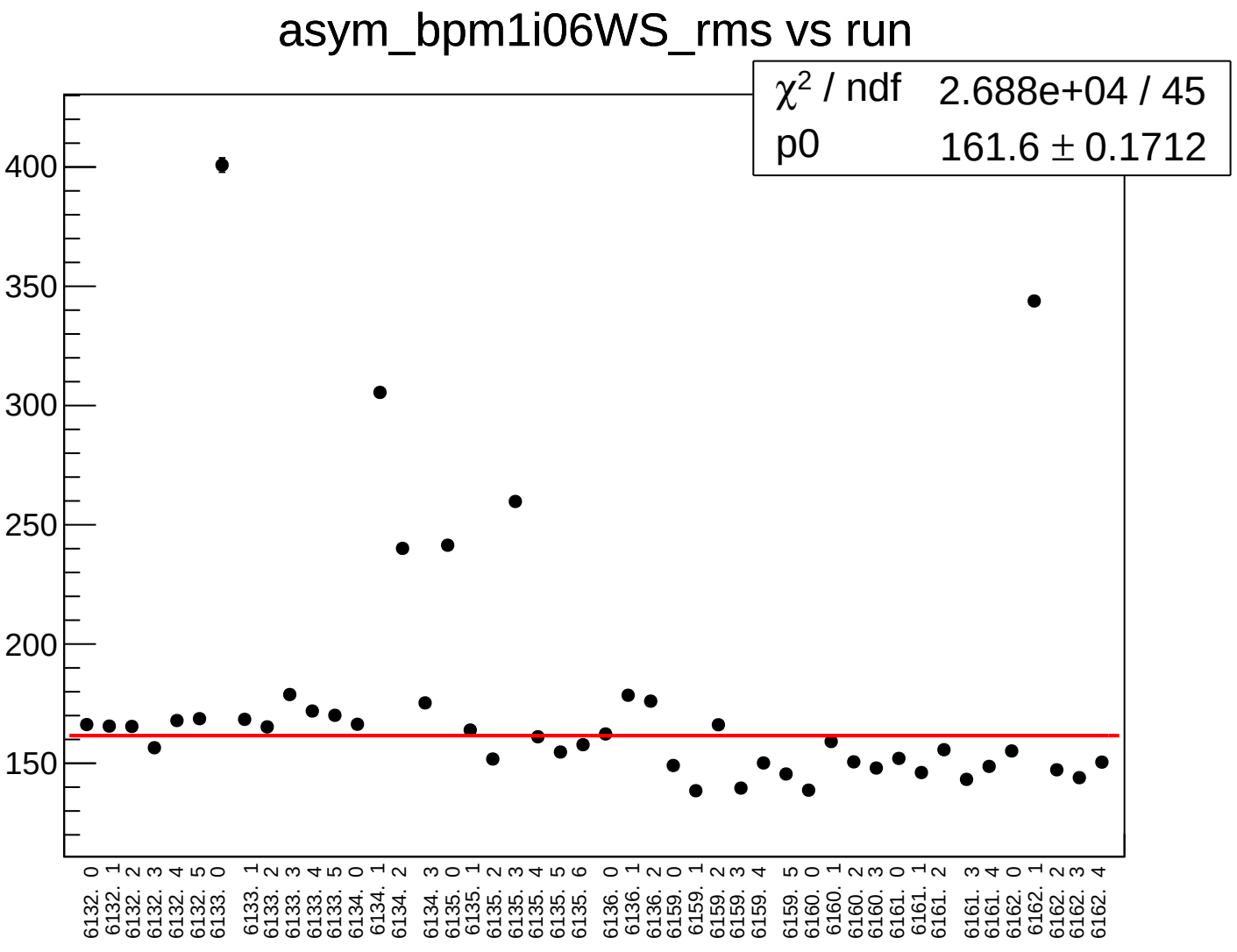

asym_bpm1i04WS_mean vs run
χ² / ndf 1106 / 45
p0 9539 ± 143.5
20000
15000
10000
5000
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −180.7
Std Dev 0
10
5
0
−5
−10

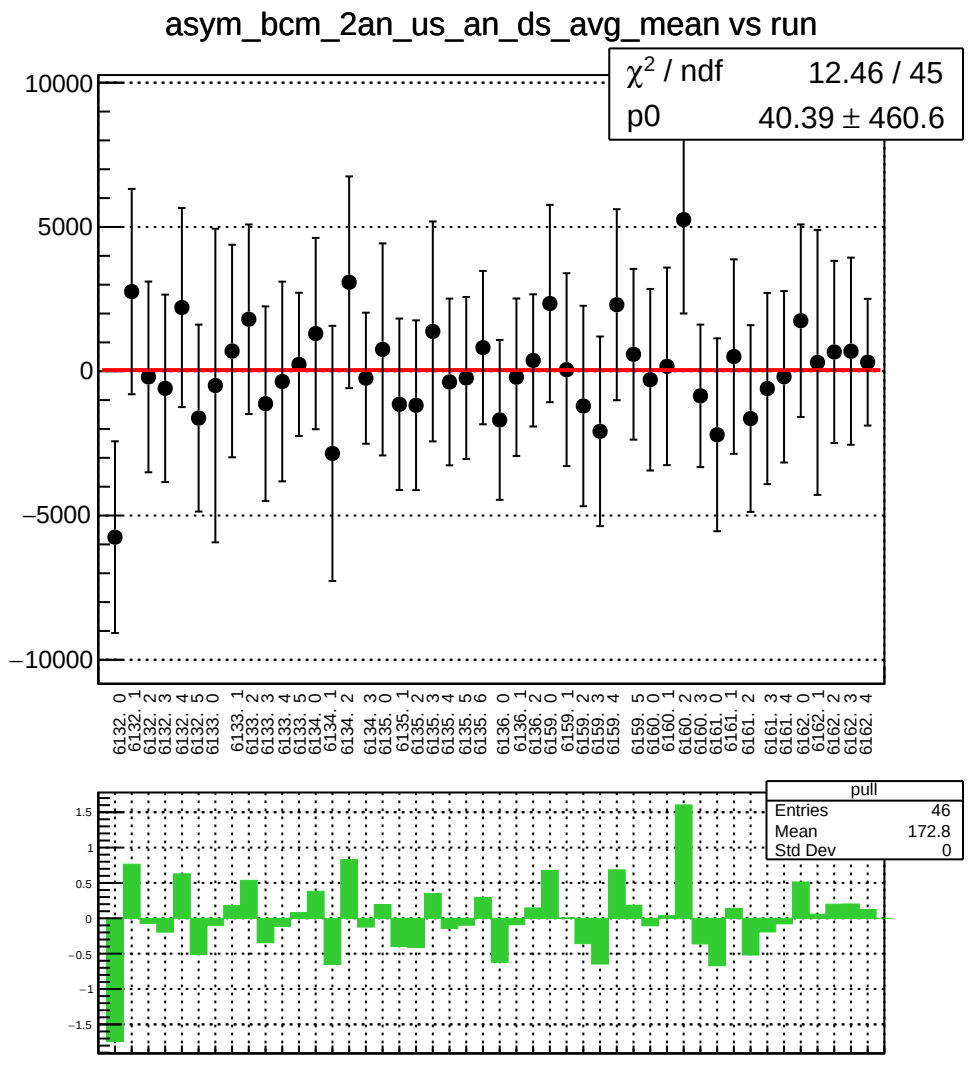

pull1D
Entries 46
Mean 0.1786
Std Dev 4.128
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

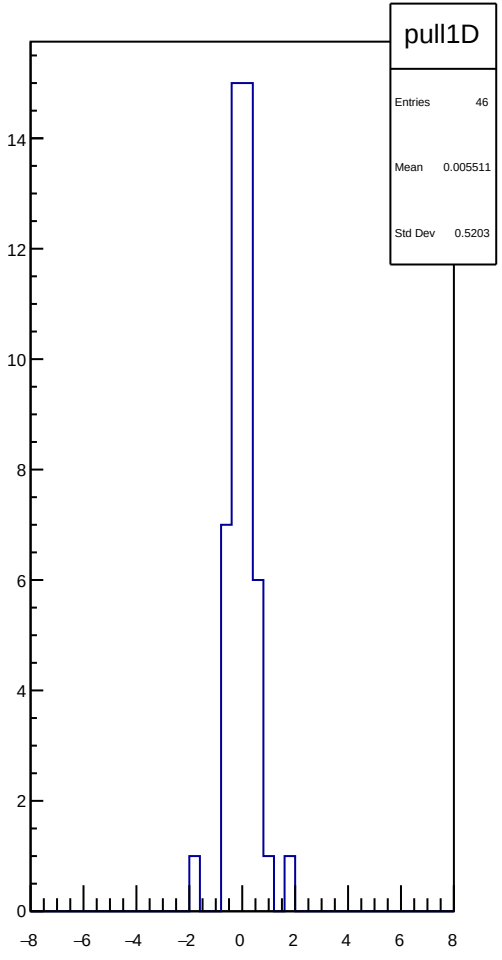

asym_bpm1i04WS_rms vs run
χ² / ndf 5.119e+04 / 45
p0 94.48 ± 0.1015
400
350
300
250
200
150
100
50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

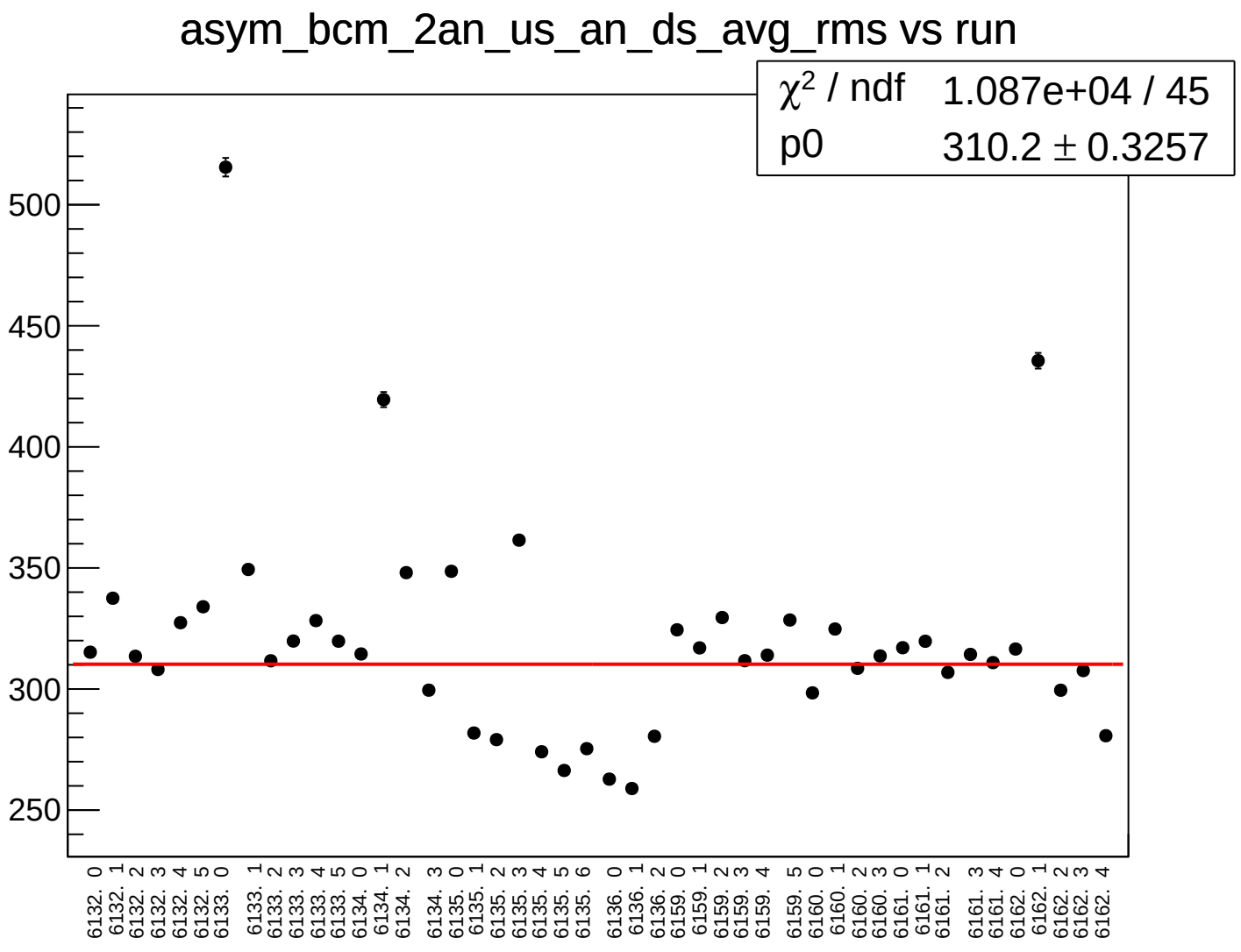

asym_bpm1i06WS_mean vs run
χ² / ndf 367.8 / 45
p0 4577 ± 242.1
15000
10000
5000
0
−5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −98.65
Std Dev 0
6
4
2
0
−2
−4
−6


pull1D
Entries 46
Mean 0.154
Std Dev 2.824
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm1i06WS_rms vs run
χ² / ndf 2.688e+04 / 45
p0 161.6 ± 0.1712
400
350
300
250
200
150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 12.46 / 45
p0 40.39 ± 460.6
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 172.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 46
Mean 0.005511
Std Dev 0.5203
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 1.087e+04 / 45
p0 310.2 ± 0.3257
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 1
6161. 2
6161. 3
6161. 4
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6162. 1
6162. 2
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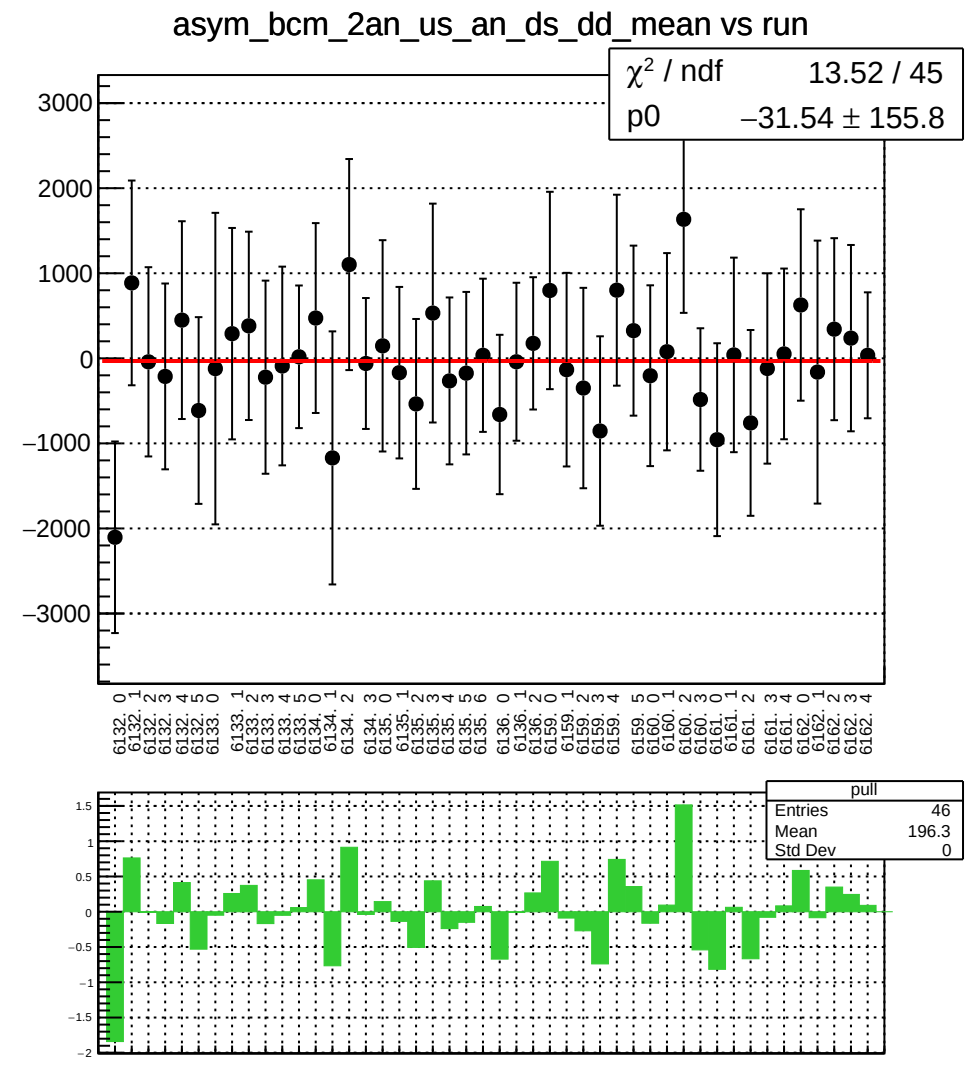
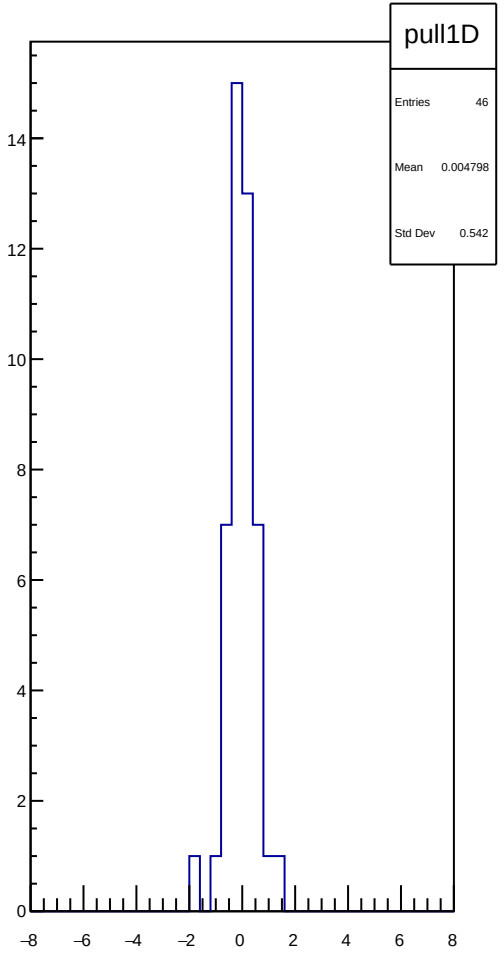
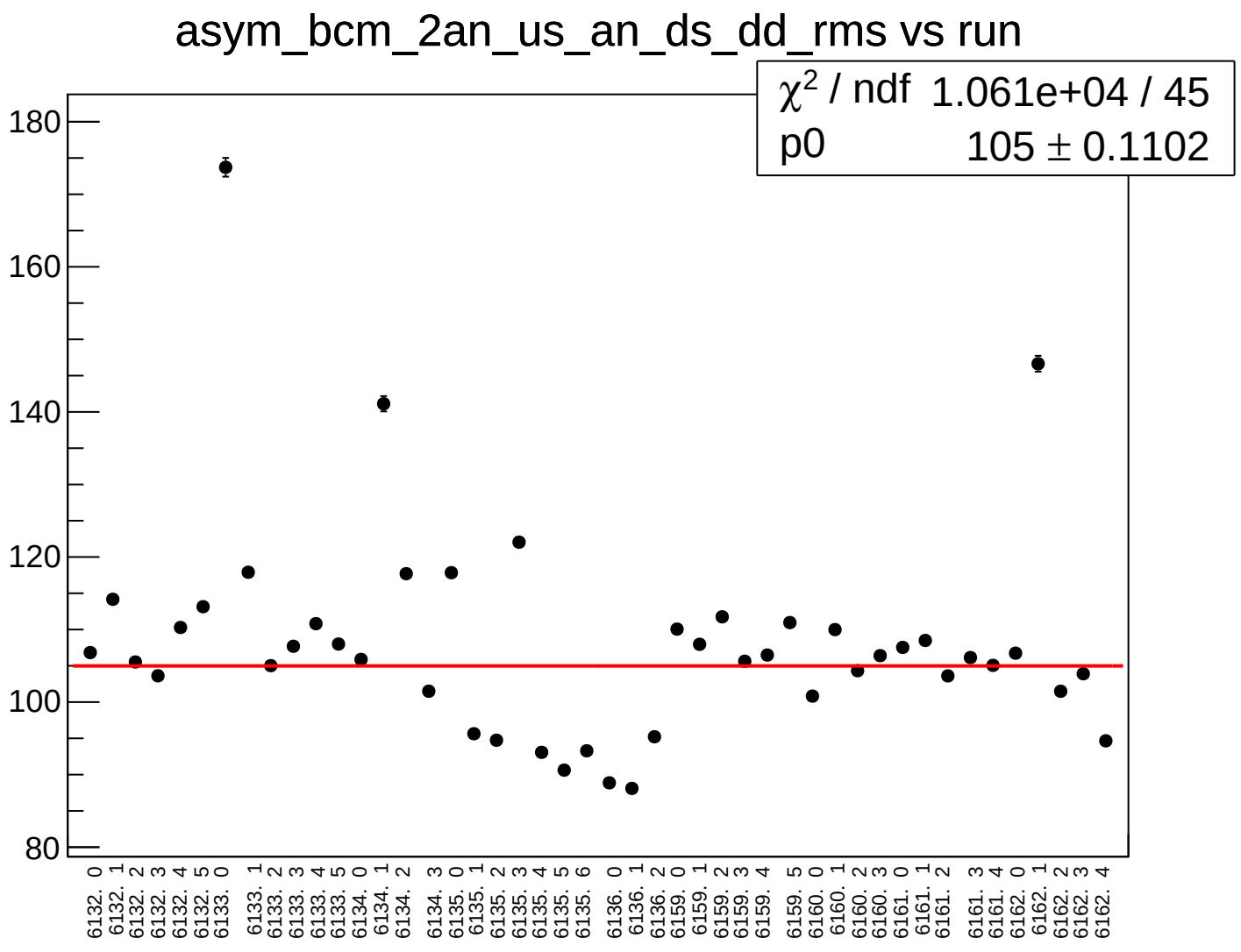
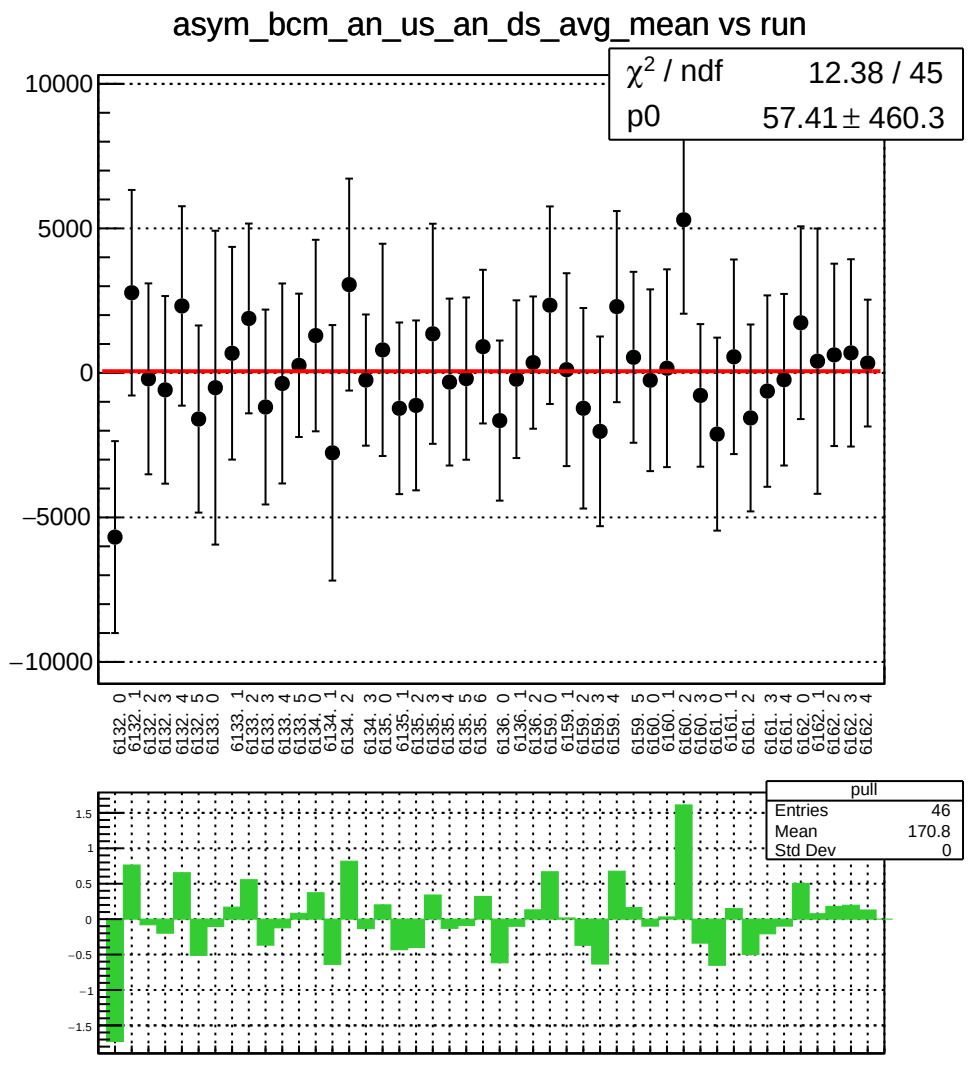
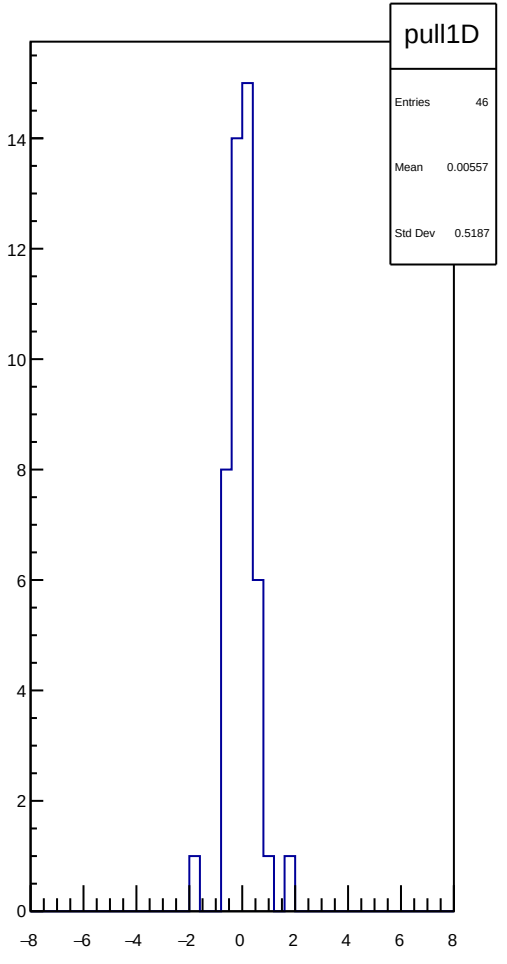
6162. 4

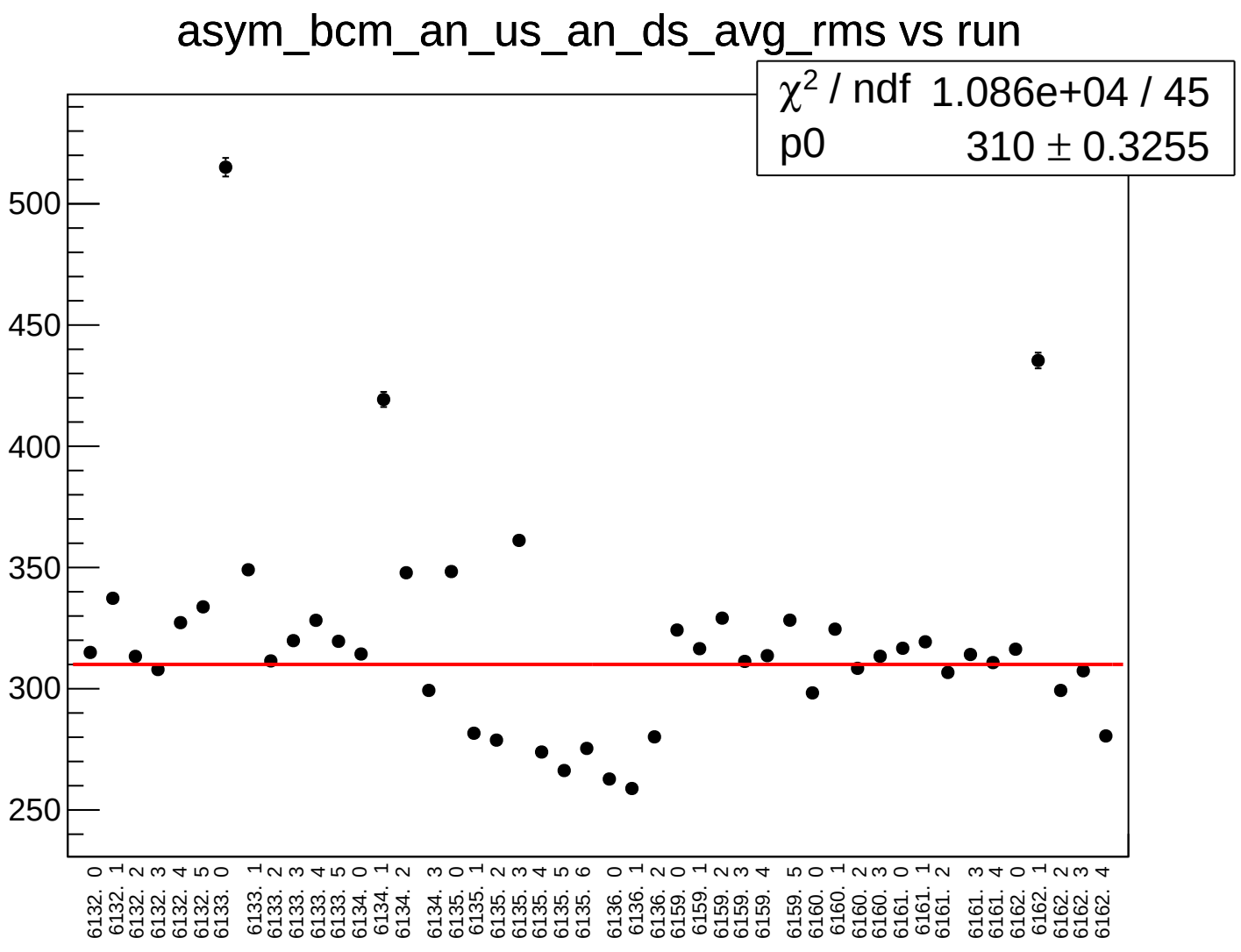

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 13.52 / 45
p0 −31.54 ± 155.8
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 196.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

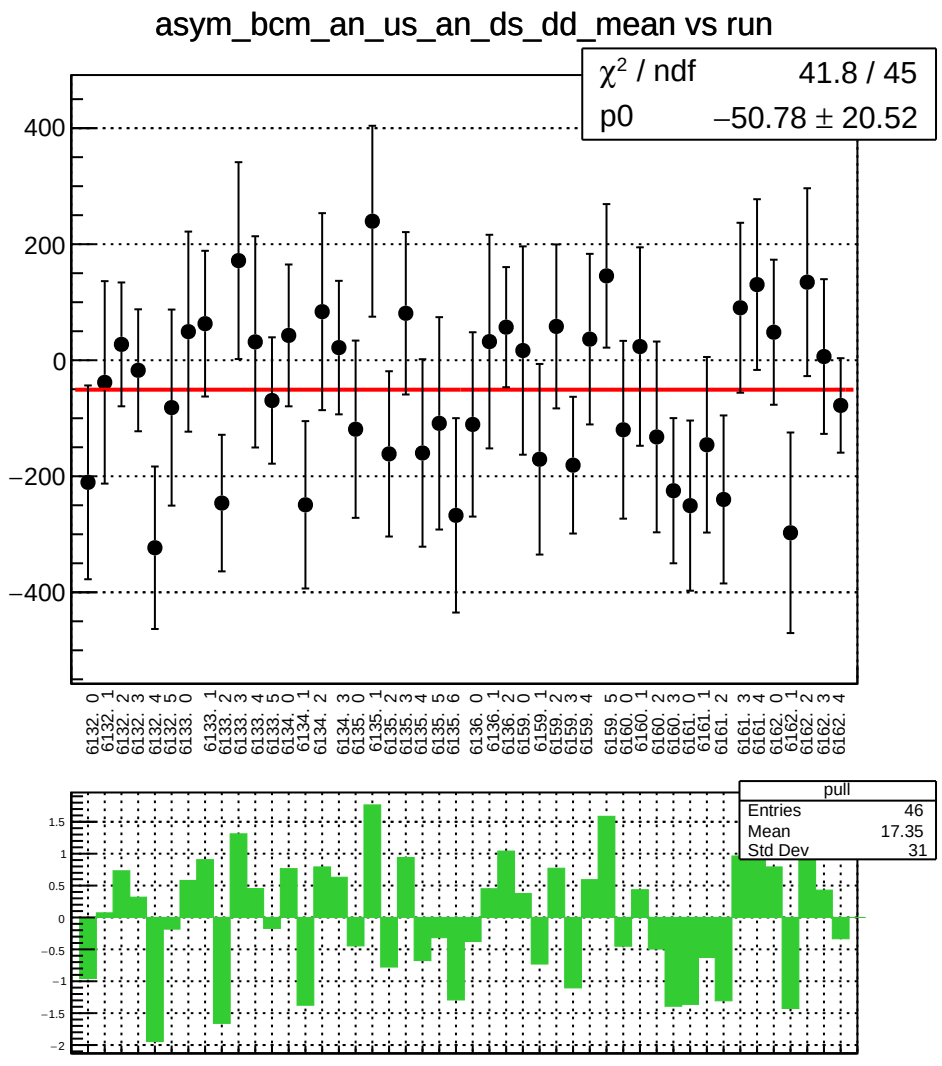

pull1D
Entries 46
Mean 0.004798
Std Dev 0.542
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

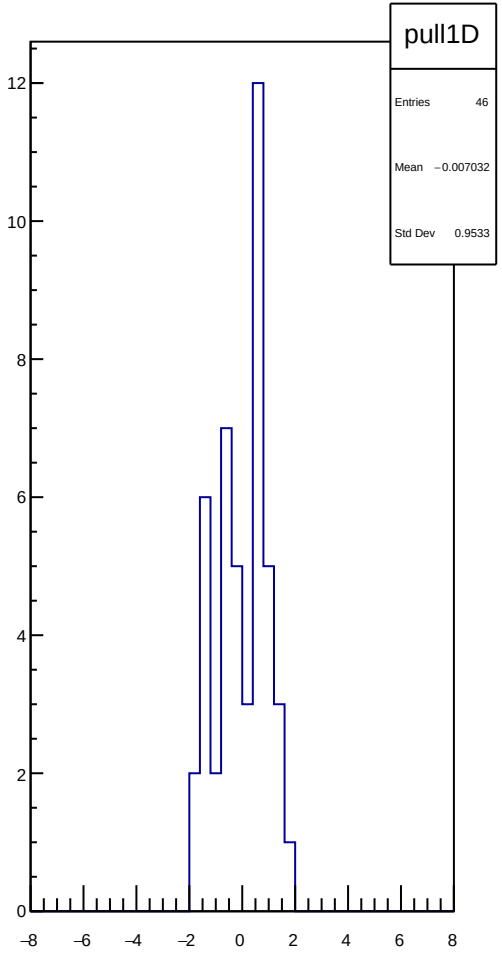

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 1.061e+04 / 45
p0 105 ± 0.1102
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

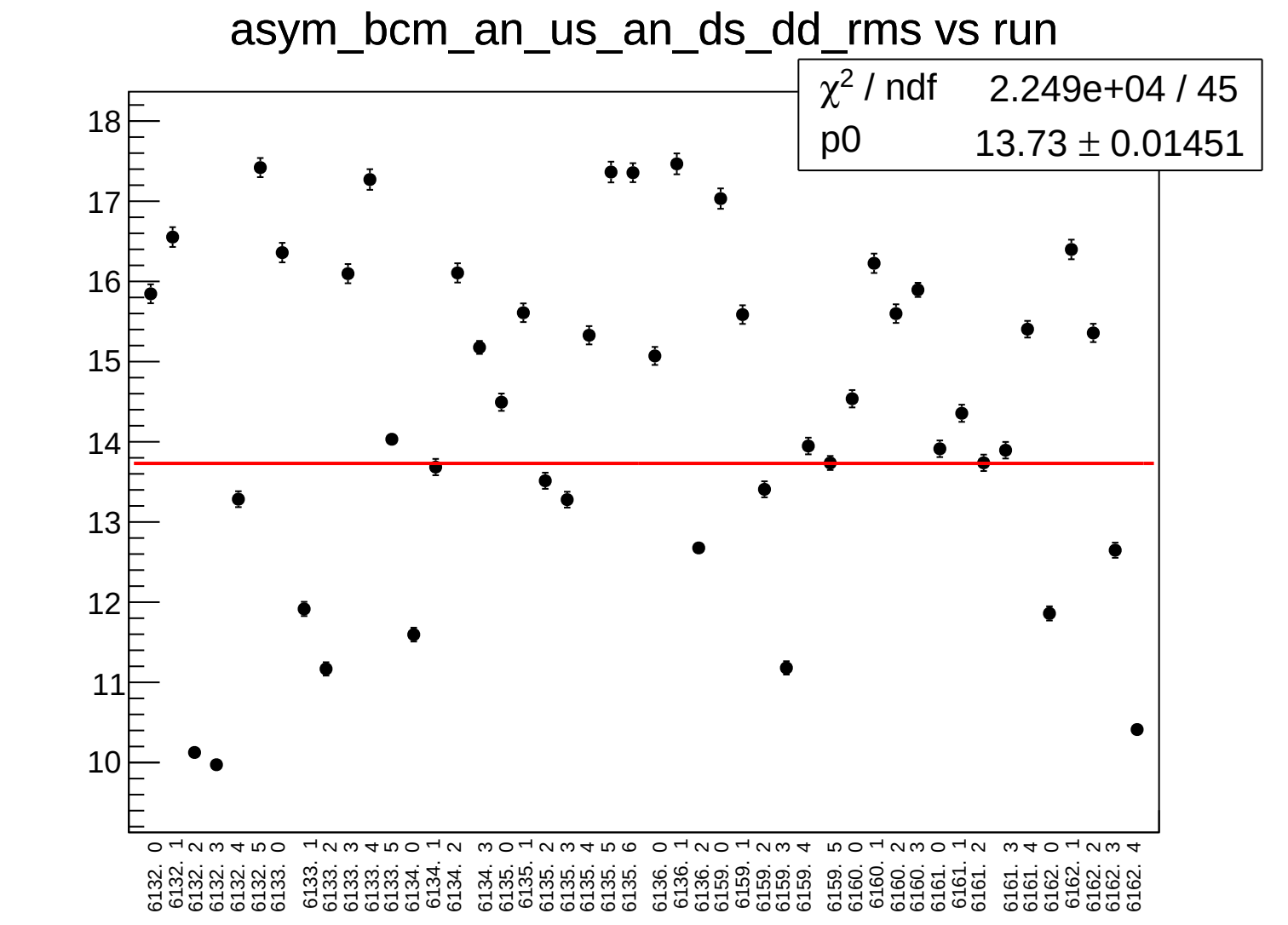

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 12.38 / 45
p0 57.41 ± 460.3
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 170.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

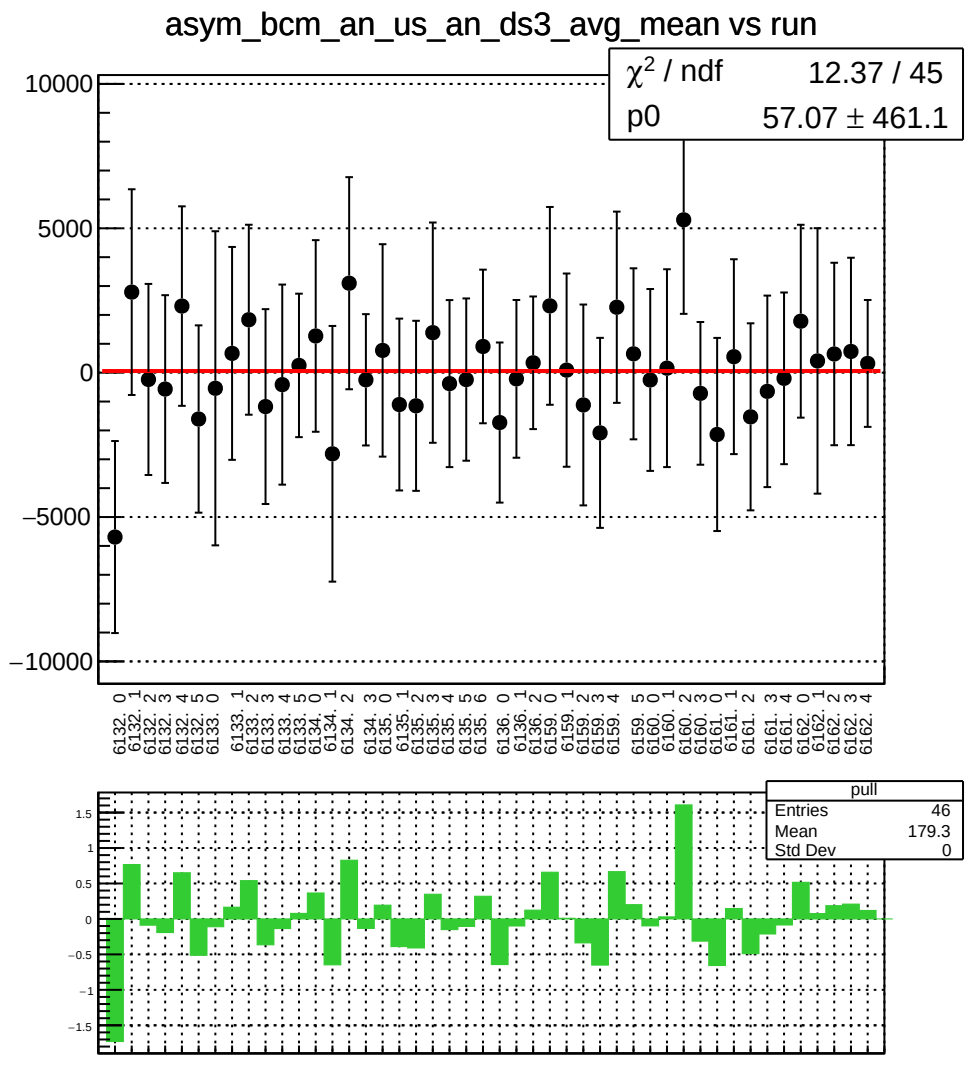

pull1D
Entries 46
Mean 0.00557
Std Dev 0.5187
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

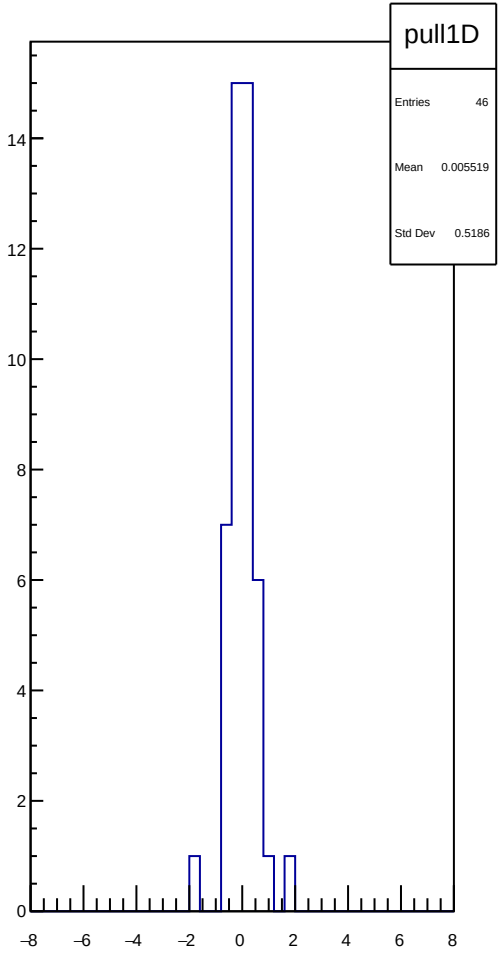

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 1.086e+04 / 45
p0 310 ± 0.3255
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

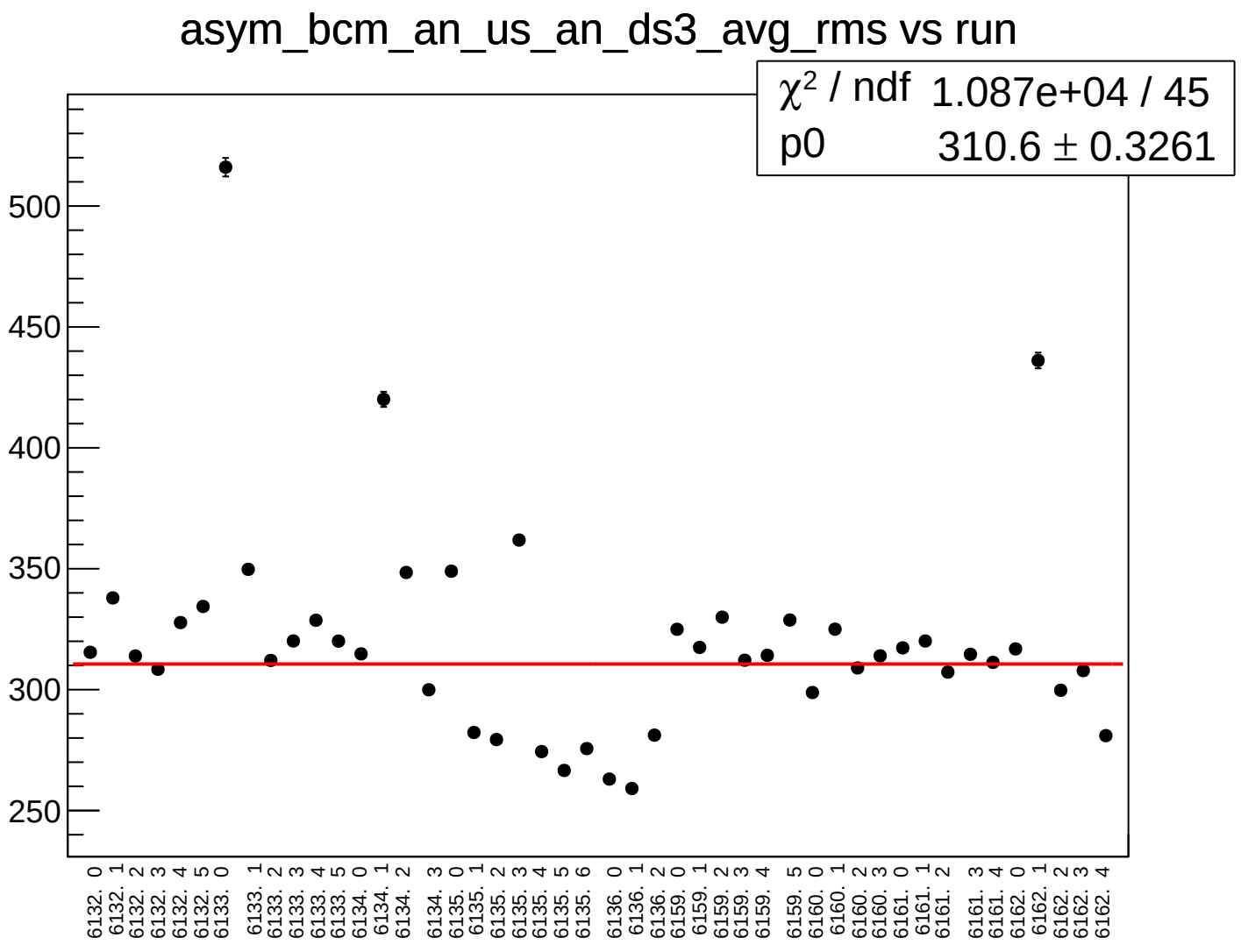

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 41.8 / 45
p0 −50.78 ± 20.52
400
200
0
−200
−400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 17.35
Std Dev 31
1.5
1
0.5
0
−0.5
−1
−1.5
−2

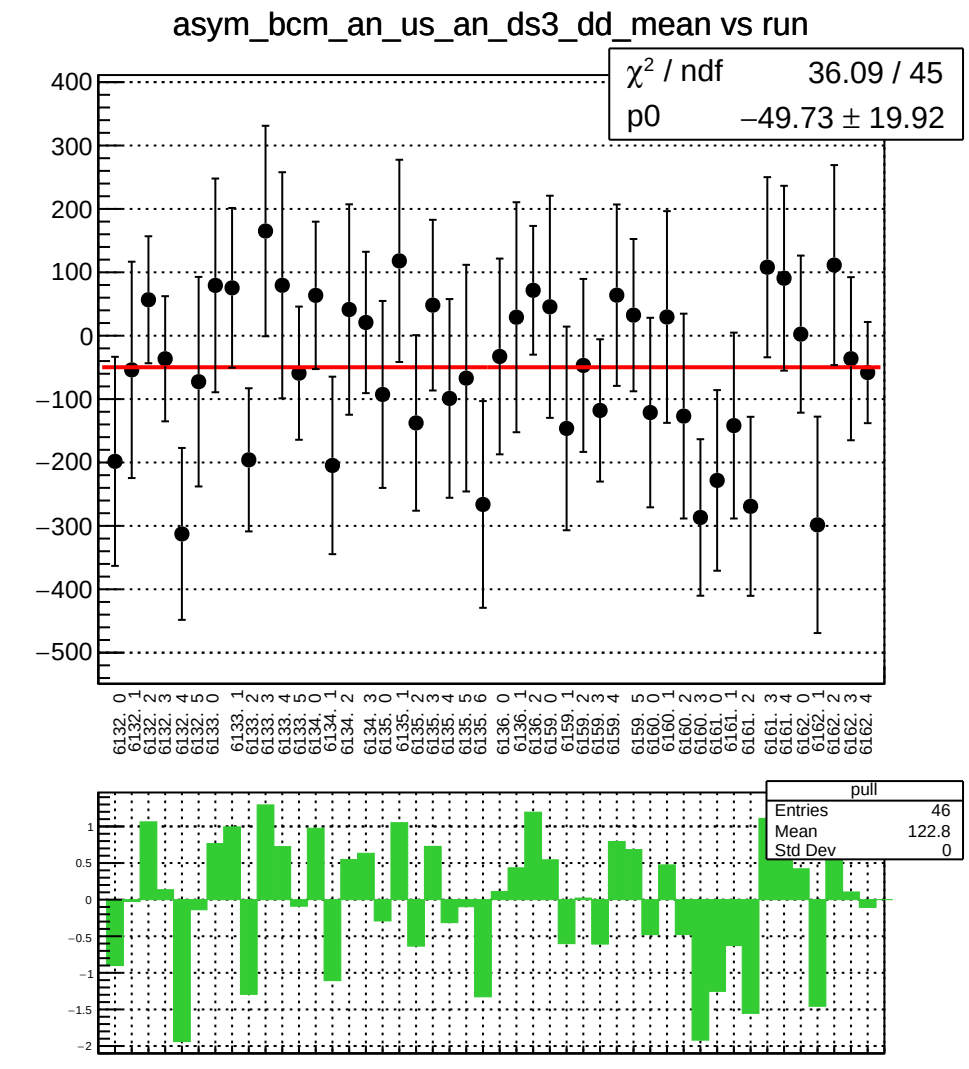

pull1D
Entries 46
Mean −0.007032
Std Dev 0.9533
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

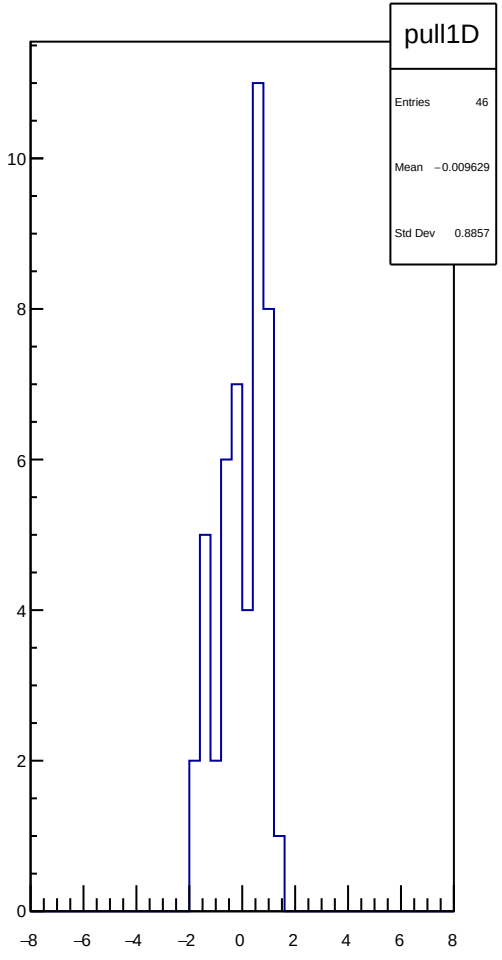

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 2.249e+04 / 45
p0 13.73 ± 0.01451
18
17
16
15
14
13
12
11
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

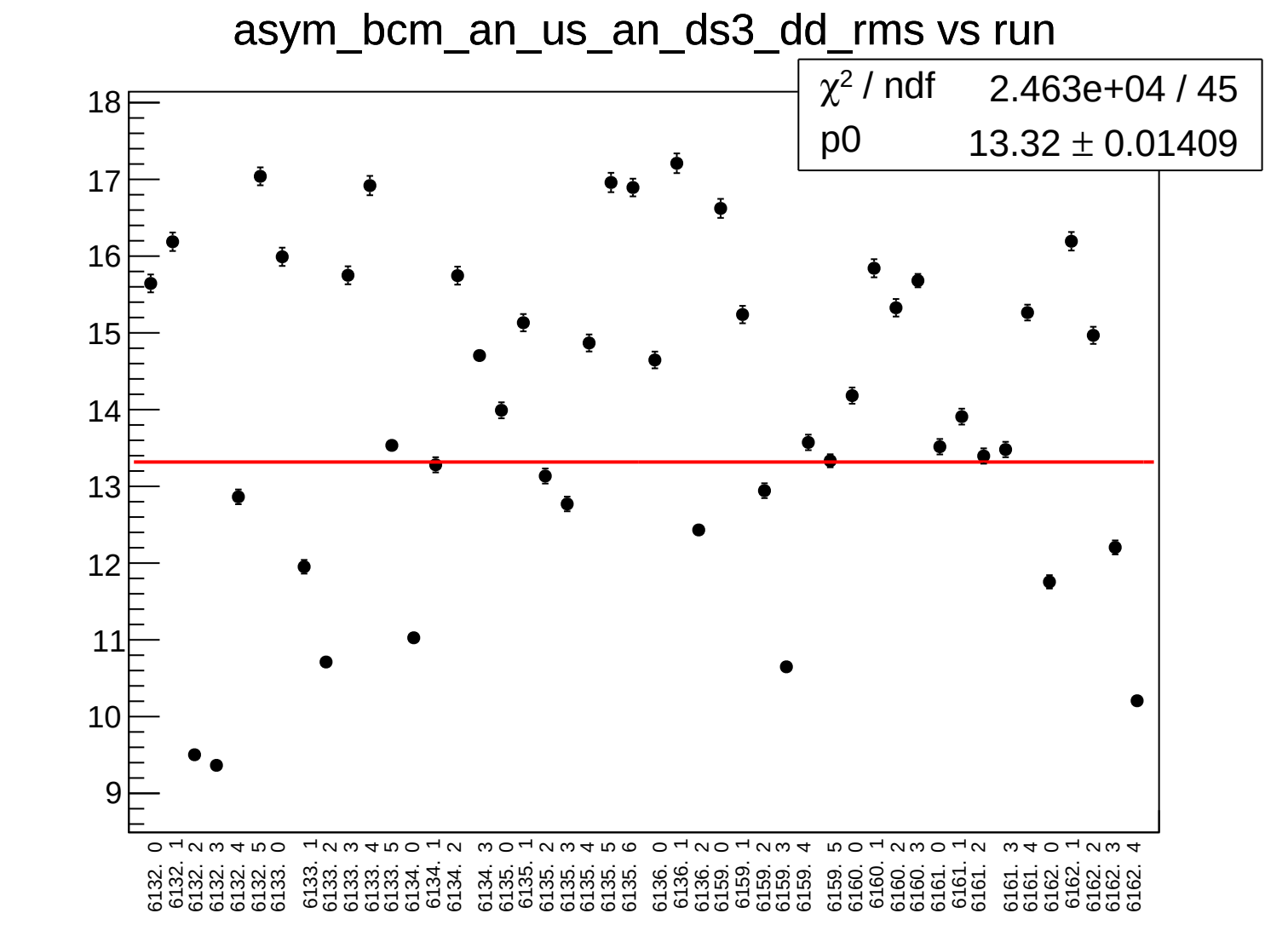

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 12.37 / 45
p0 57.07 ± 461.1
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 179.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

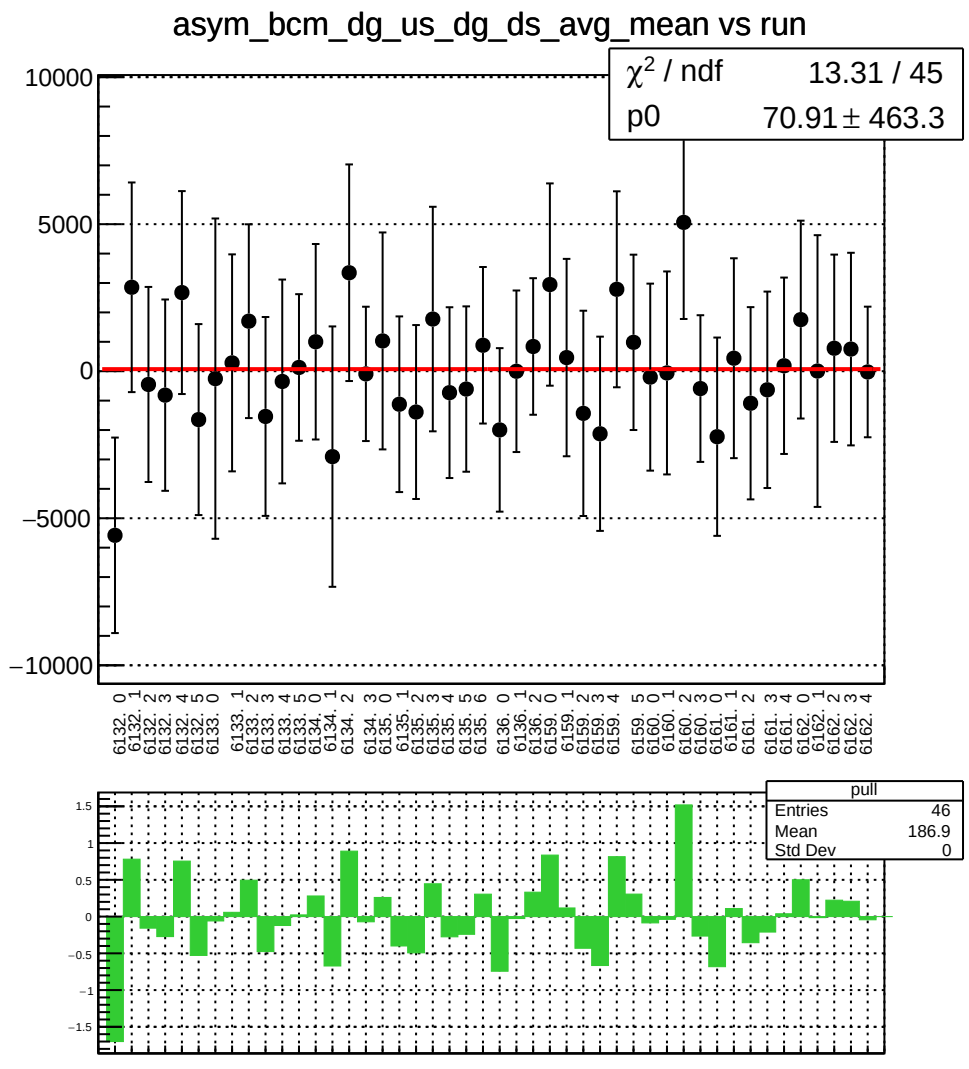

pull1D
Entries 46
Mean 0.005519
Std Dev 0.5186
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

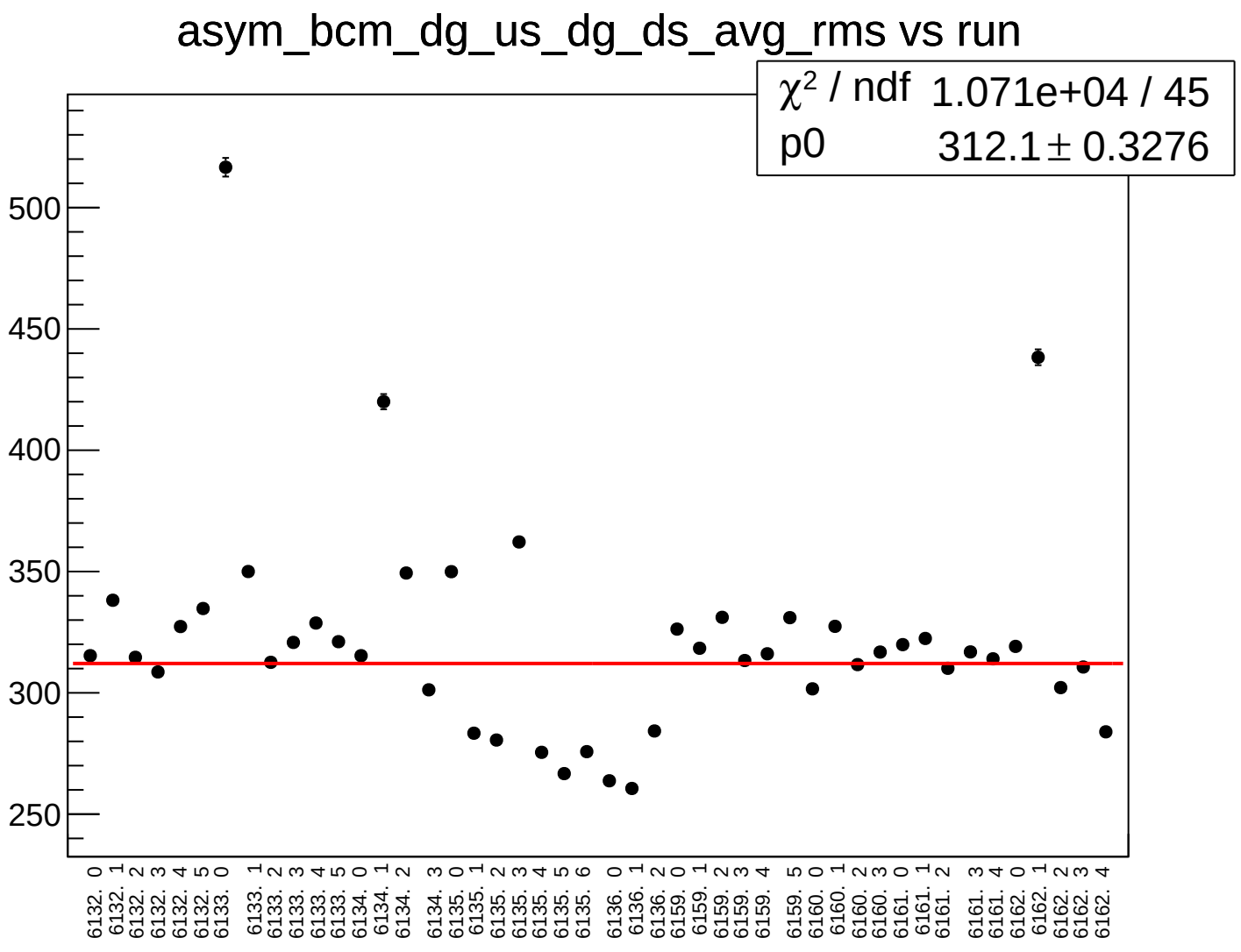

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 1.087e+04 / 45
p0 310.6 ± 0.3261
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

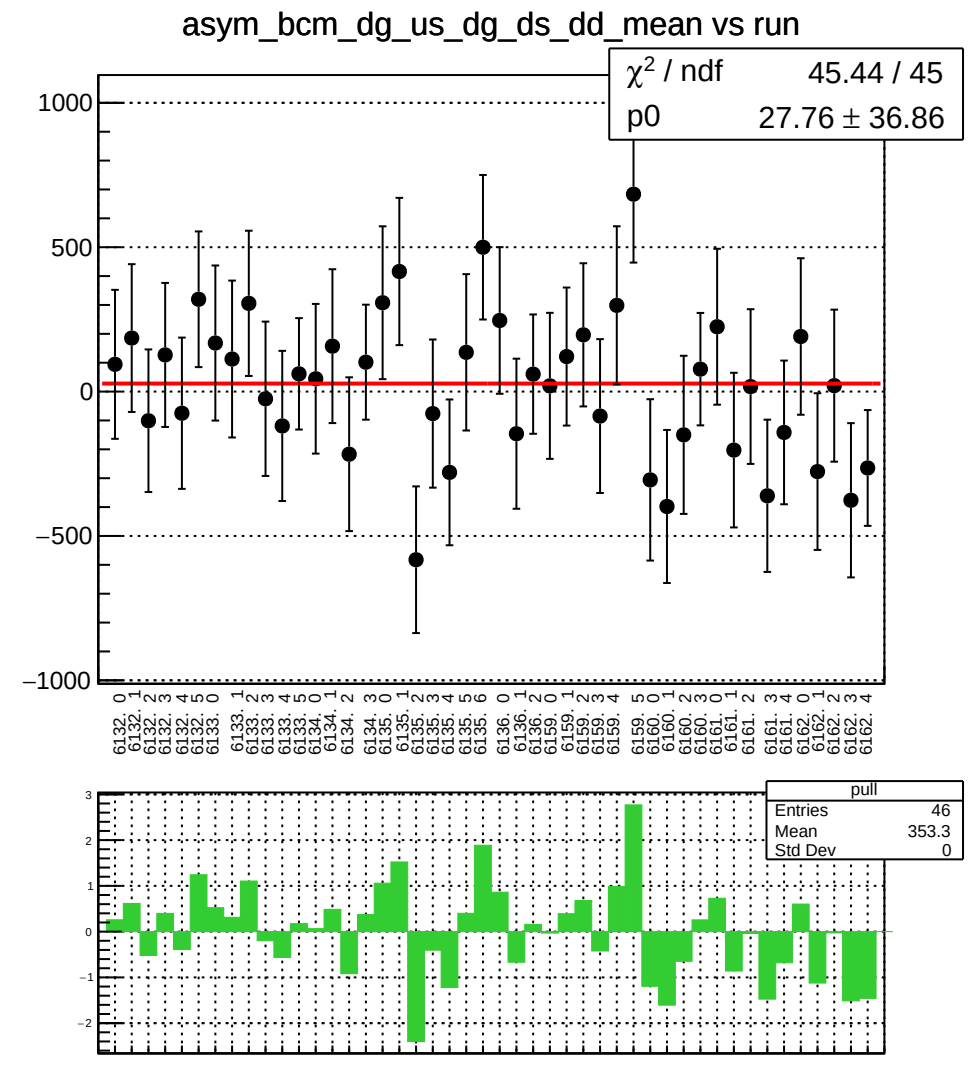

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 36.09 / 45
p0 −49.73 ± 19.92
pull
Entries 46
Mean 122.8
Std Dev 0

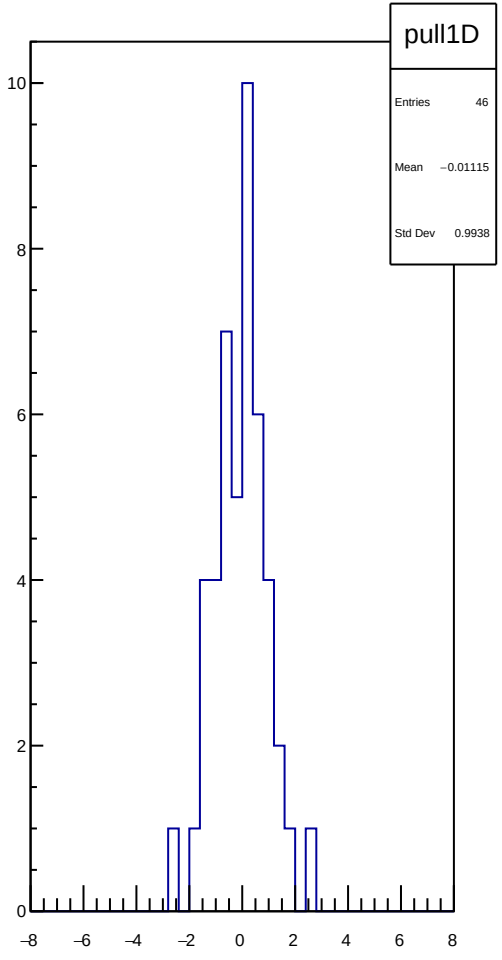

pull1D
Entries 46
Mean −0.009629
Std Dev 0.8857

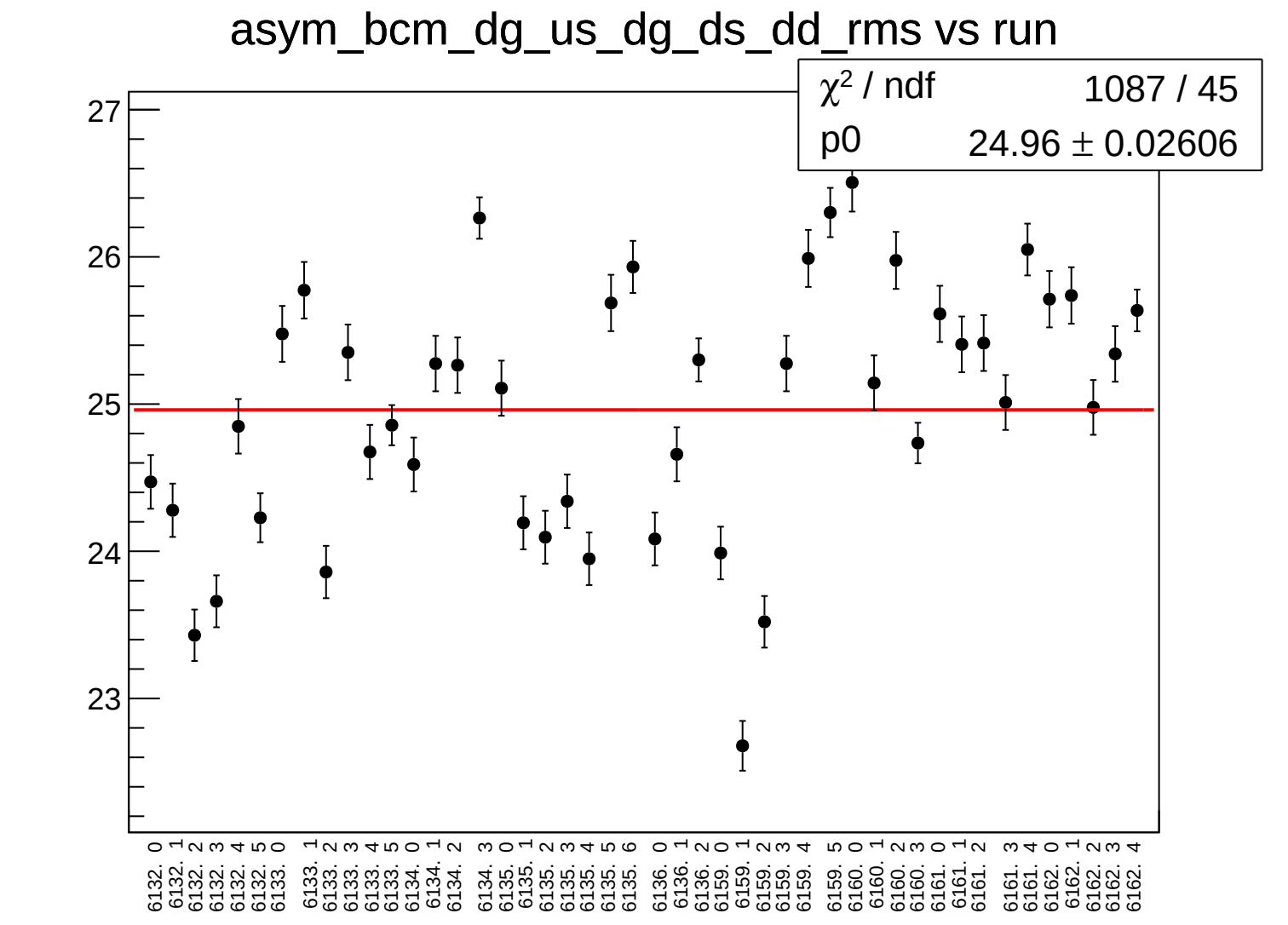

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 2.463e+04 / 45
p0 13.32 ± 0.01409
18
17
16
15
14
13
12
11
10
9
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

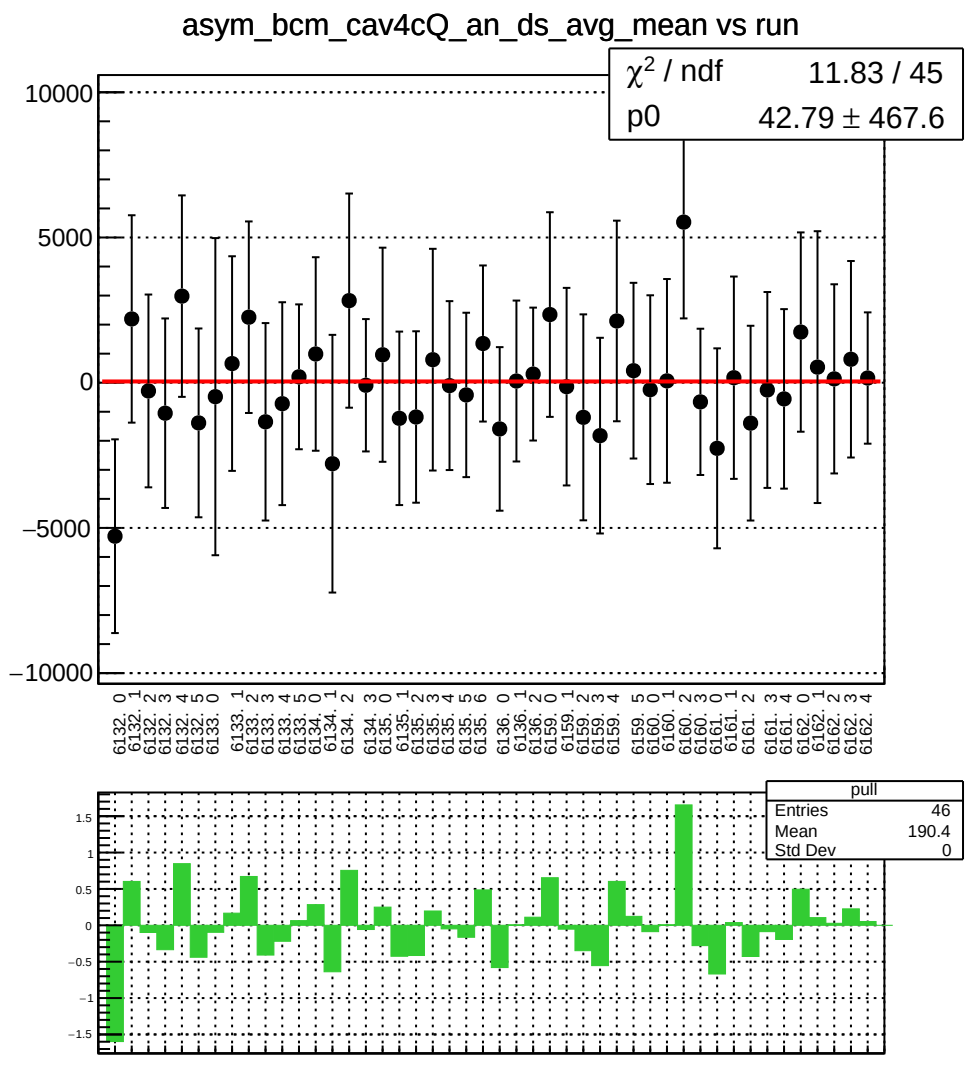

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 13.31 / 45
p0 70.91 ± 463.3
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 186.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.005878
Std Dev 0.5378
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

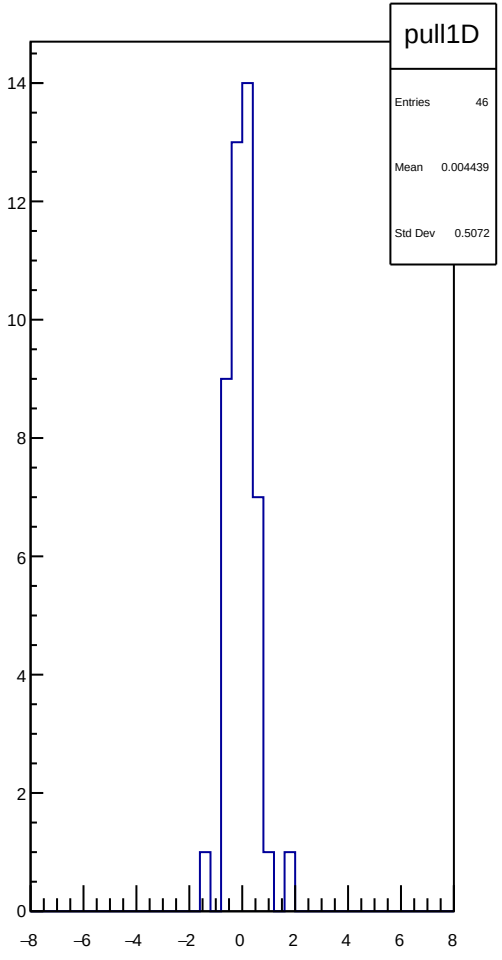

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 1.071e+04 / 45
p0 312.1 ± 0.3276
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

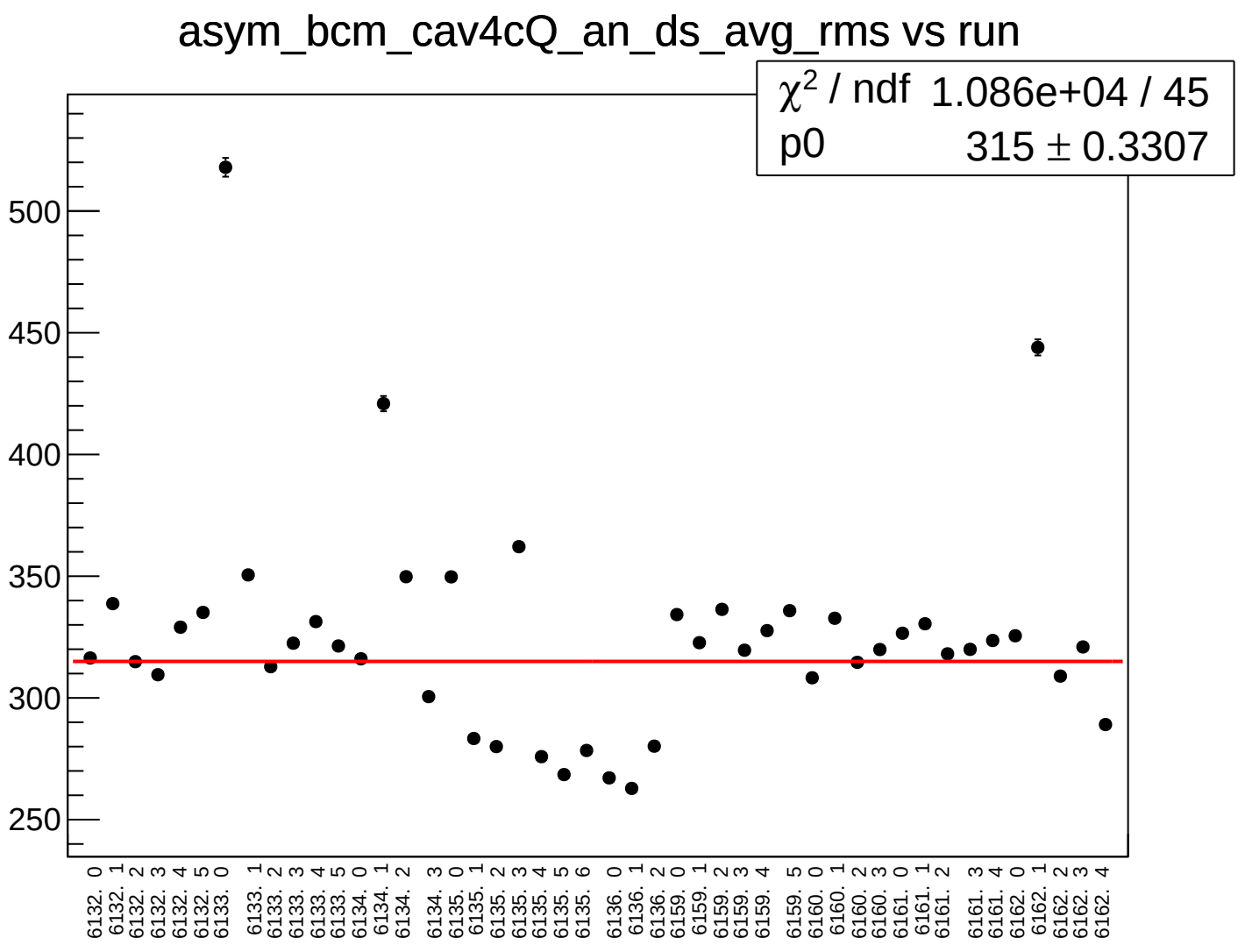

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 45.44 / 45
p0 27.76 ± 36.86
1000
500
0
−500
−1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 353.3
Std Dev 0
3
2
1
0
−1
−2

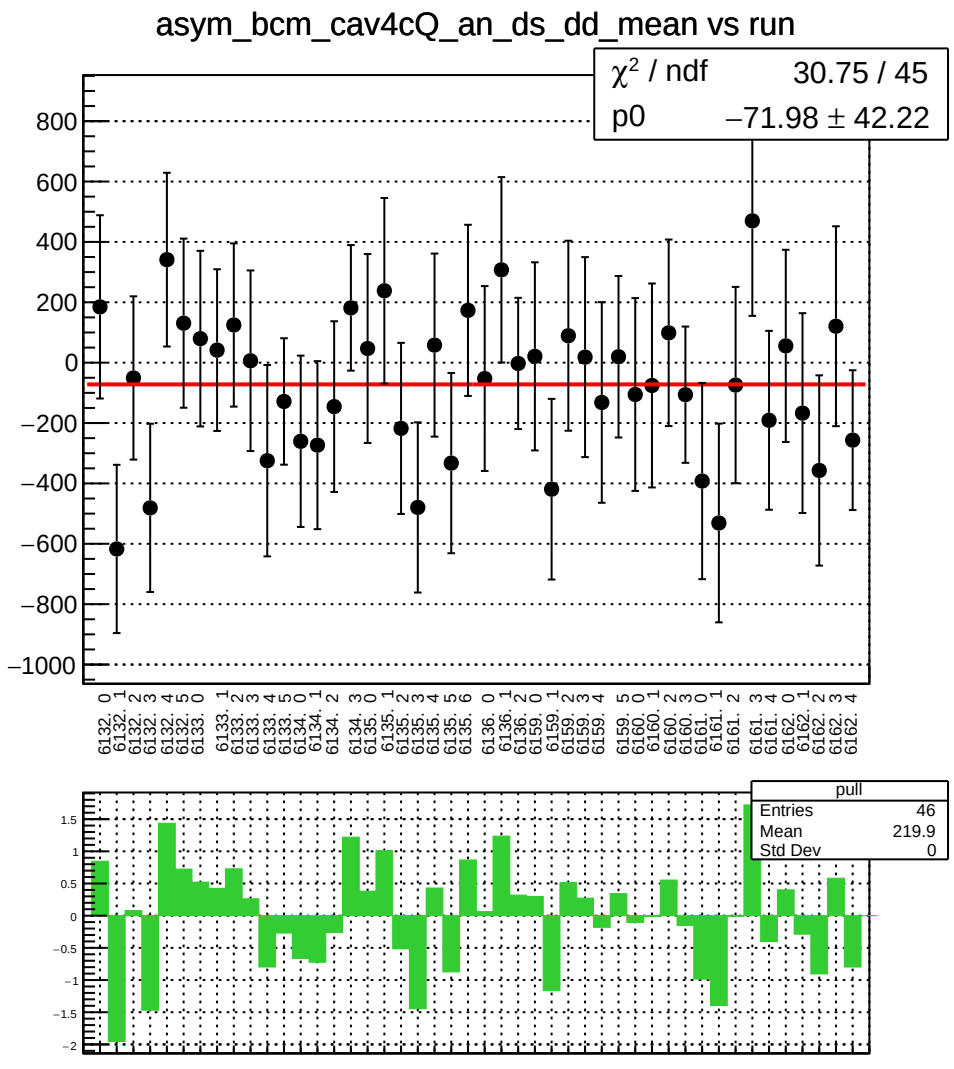

pull1D
Entries 46
Mean −0.01115
Std Dev 0.9938
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

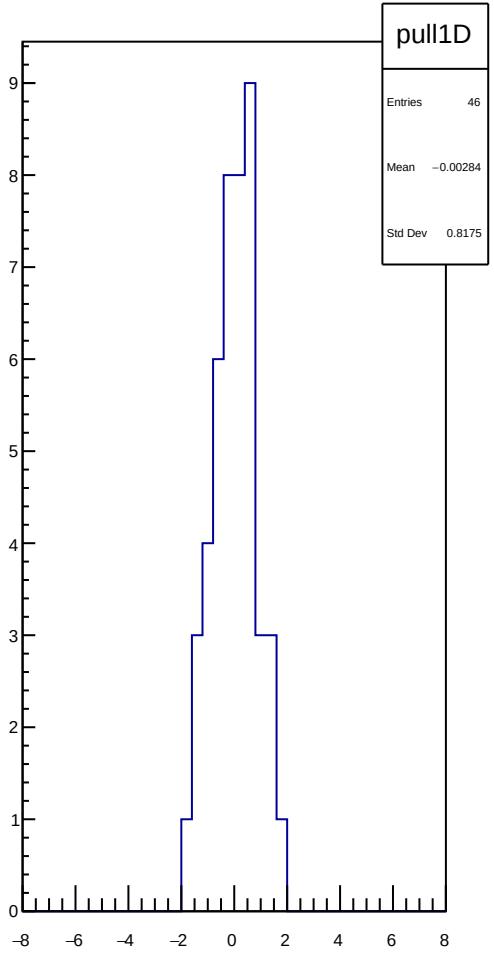

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 1087 / 45
p0 24.96 ± 0.02606
27
26
25
24
23
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

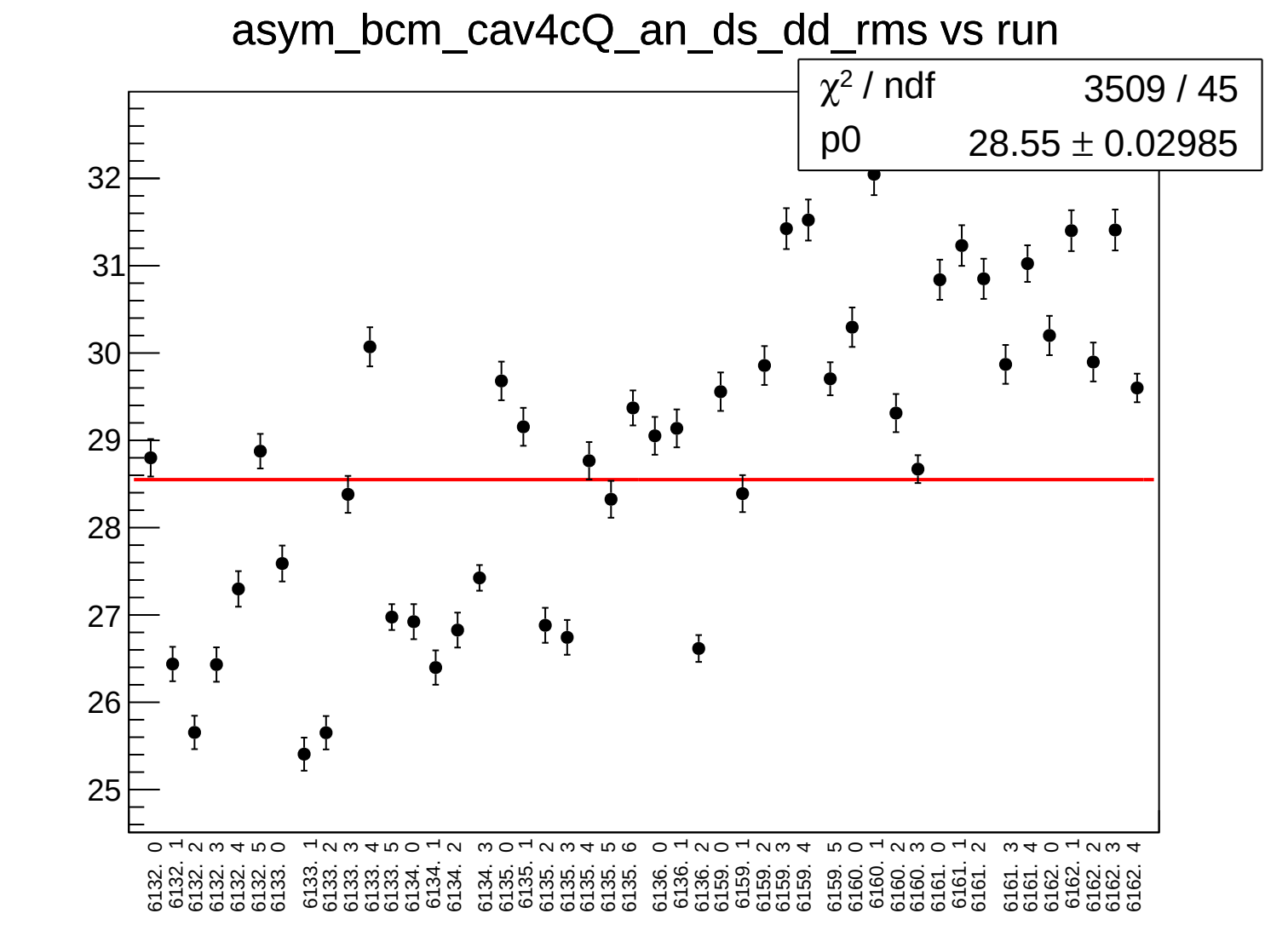

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 11.83 / 45
p0 42.79 ± 467.6
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 190.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

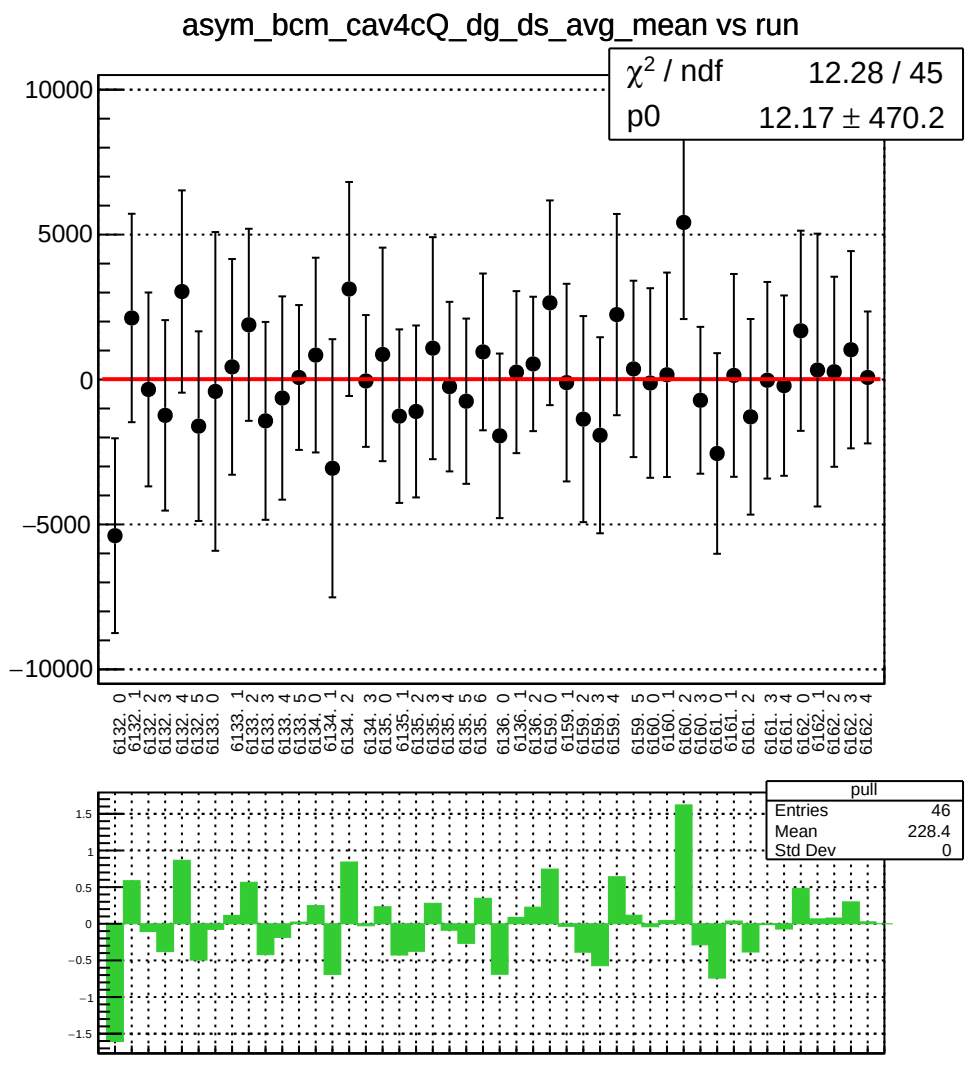

pull1D
Entries 46
Mean 0.004439
Std Dev 0.5072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

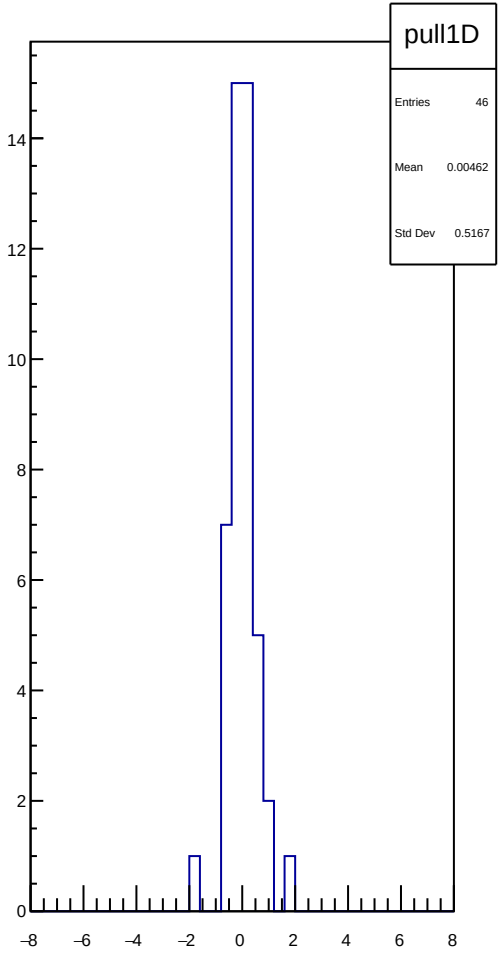

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 1.086e+04 / 45
p0 315 ± 0.3307
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

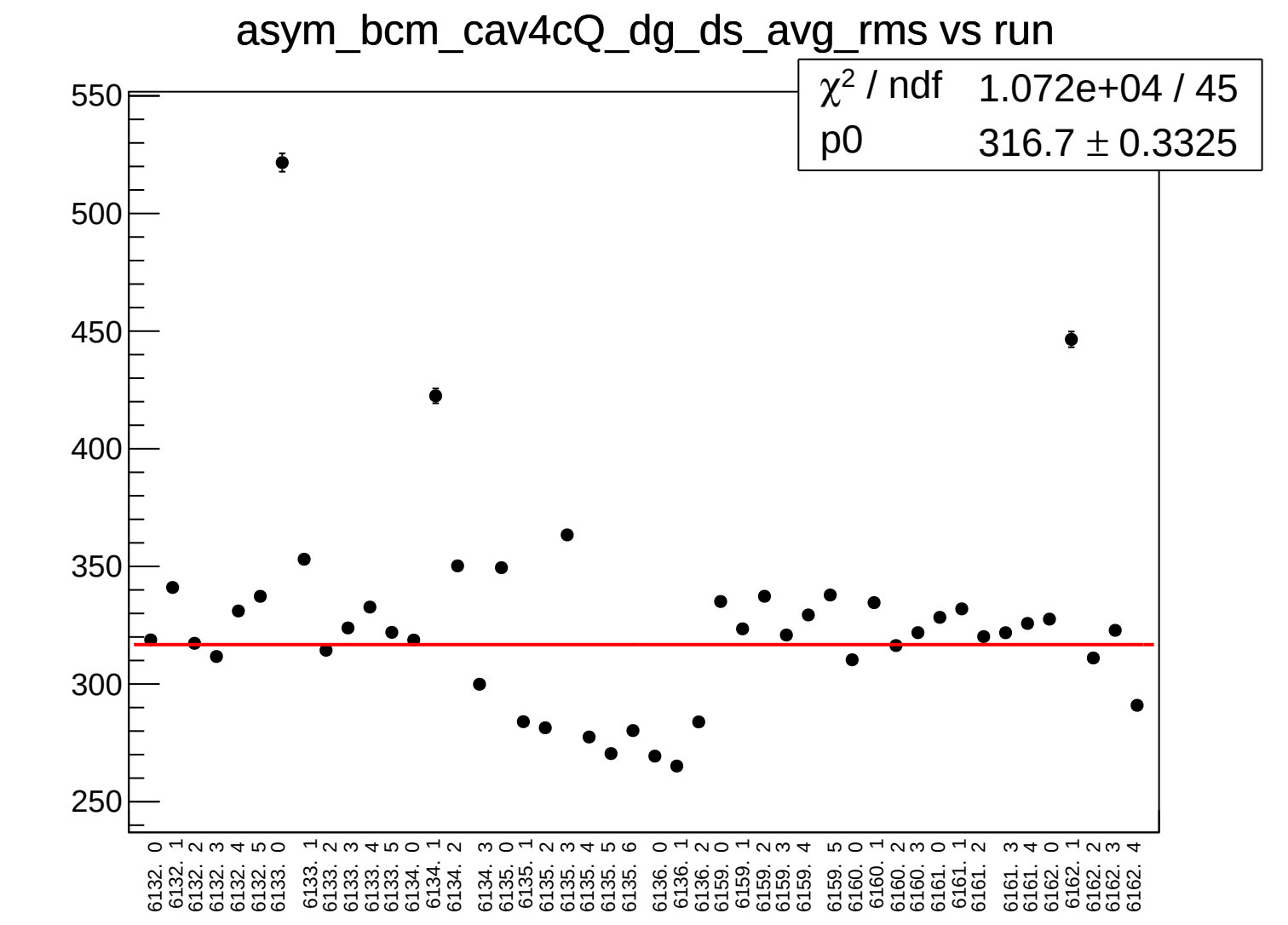

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 30.75 / 45
p0 −71.98 ± 42.22
pull
Entries 46
Mean 219.9
Std Dev 0

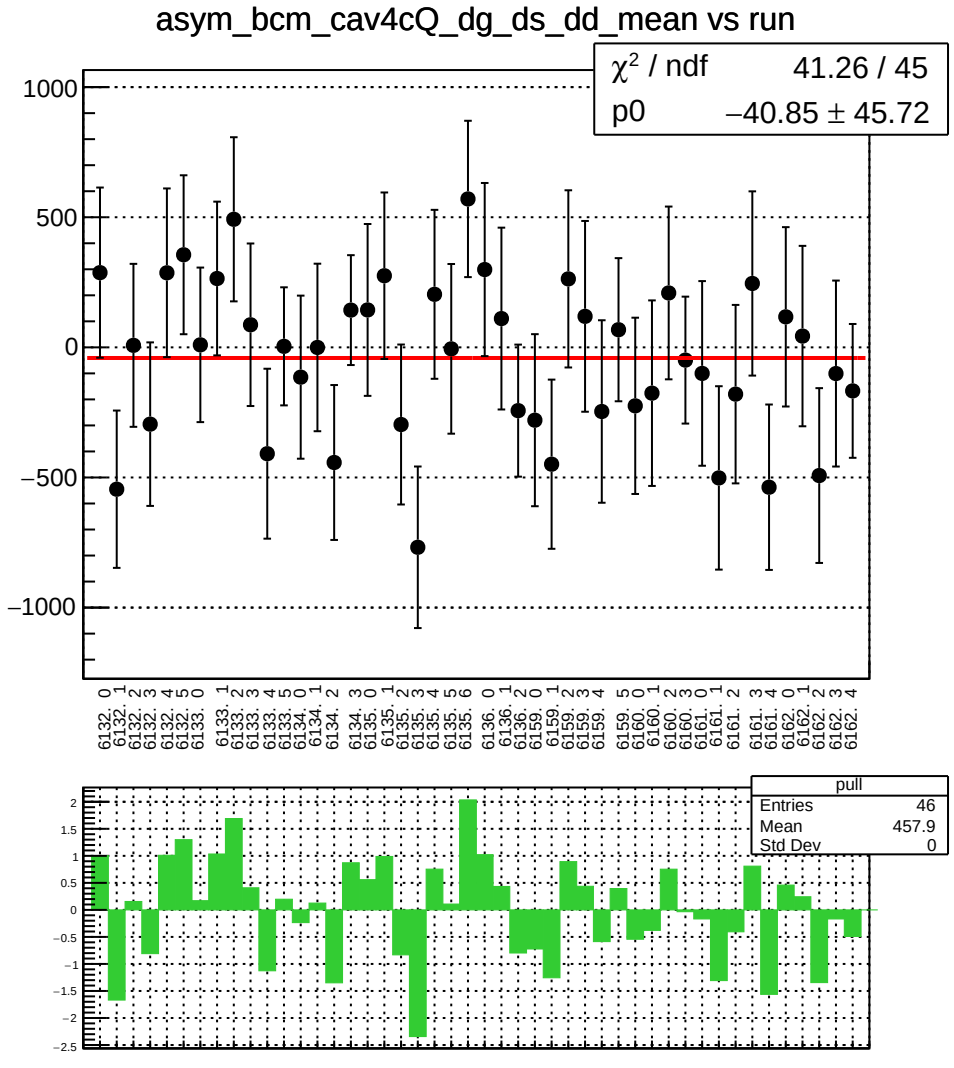

pull1D
Entries 46
Mean −0.00284
Std Dev 0.8175

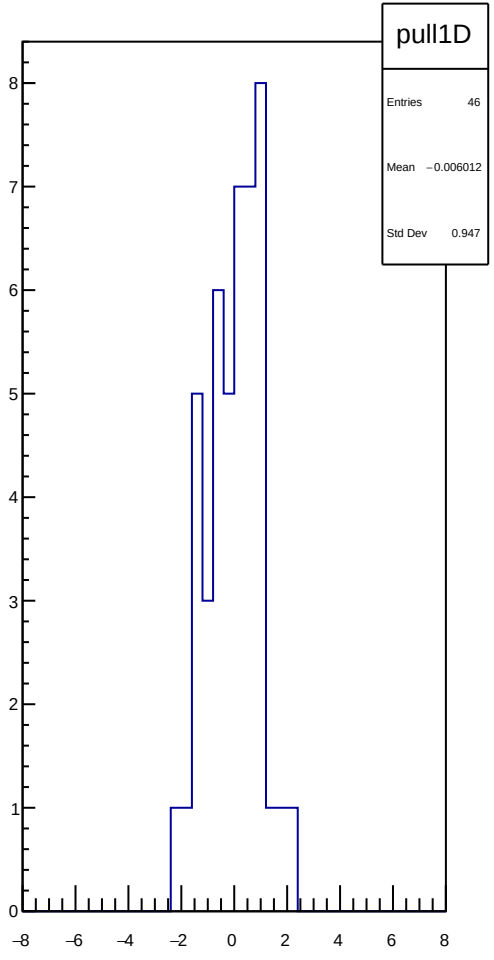

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 3509 / 45
p0 28.55 ± 0.02985
32
31
30
29
28
27
26
25
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

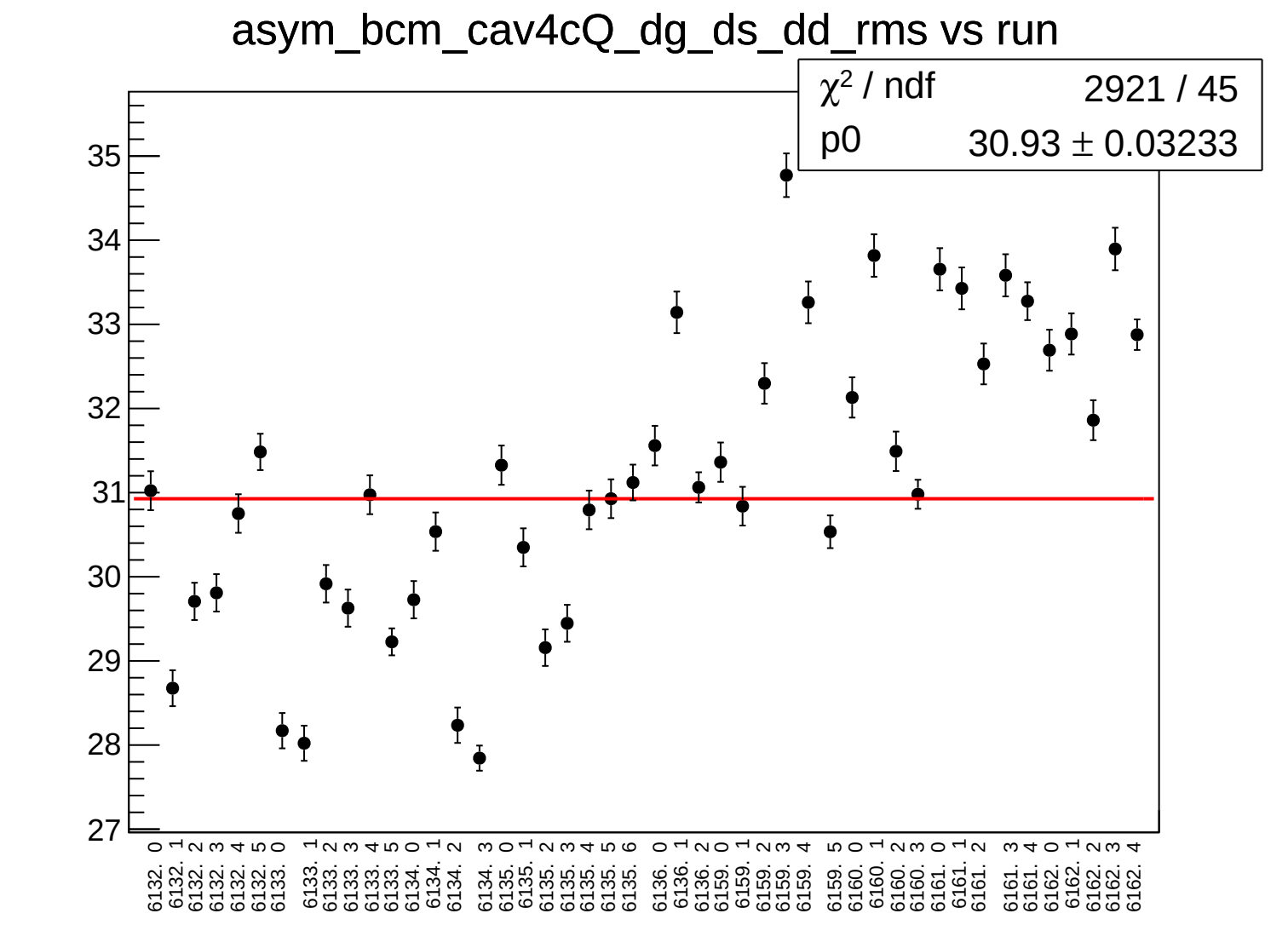

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 12.28 / 45
p0 12.17 ± 470.2
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 228.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

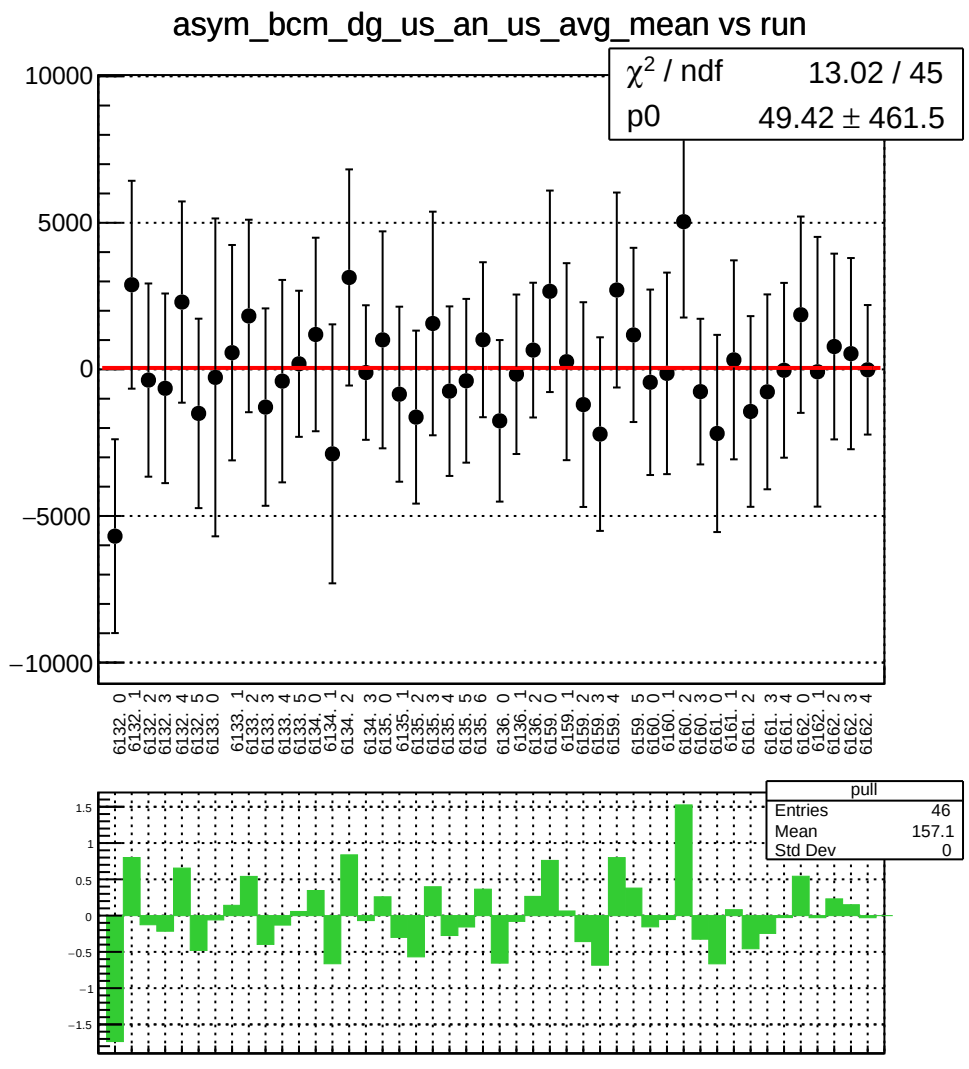

pull1D
Entries 46
Mean 0.00462
Std Dev 0.5167
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

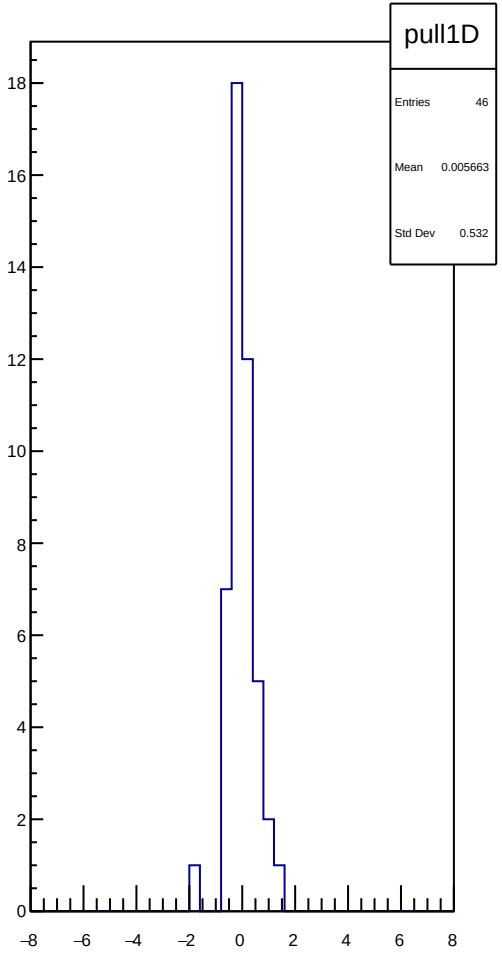

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 1.072e+04 / 45
p0 316.7 ± 0.3325
550
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

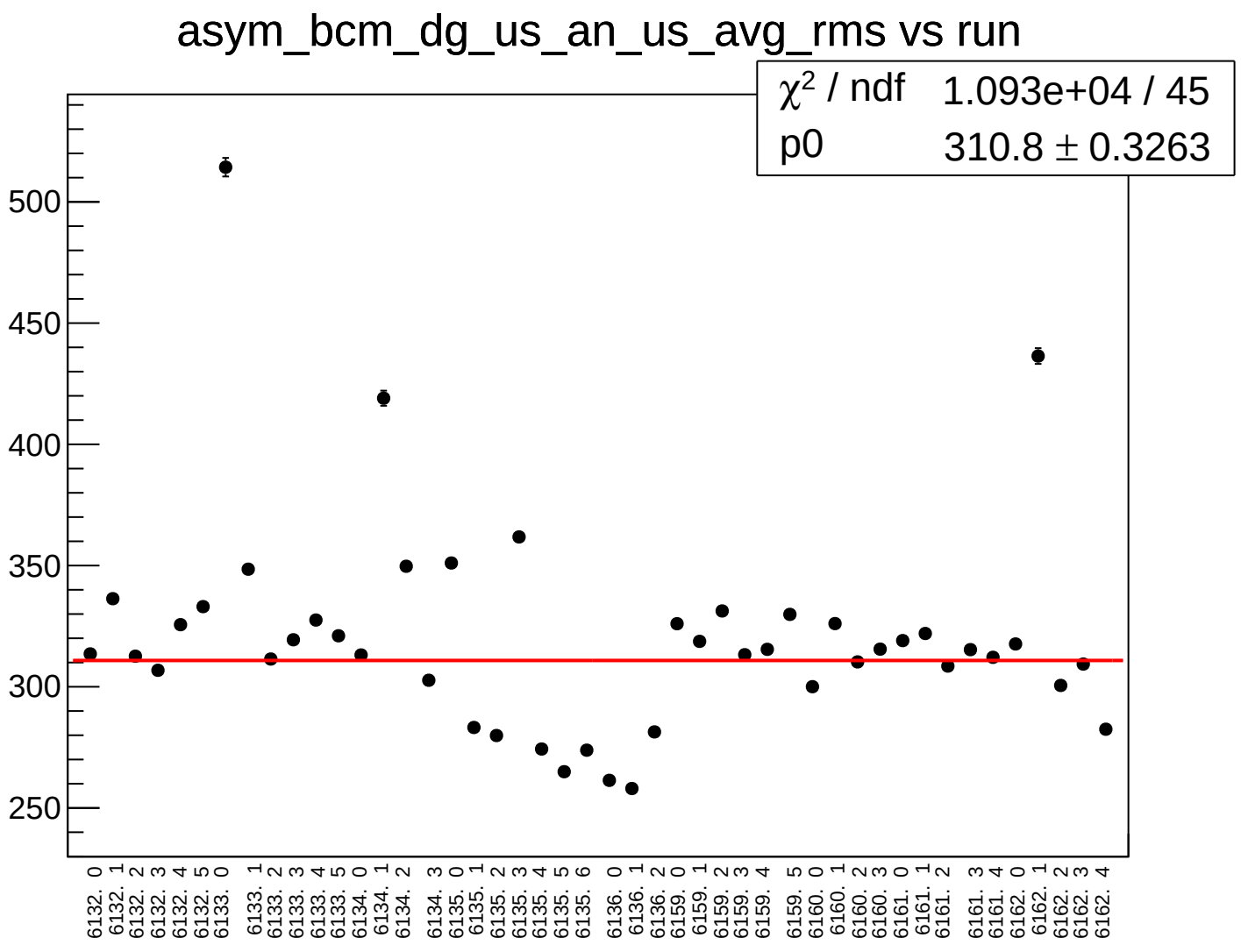

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 41.26 / 45
p0 −40.85 ± 45.72
1000
500
0
−500
−1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 457.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

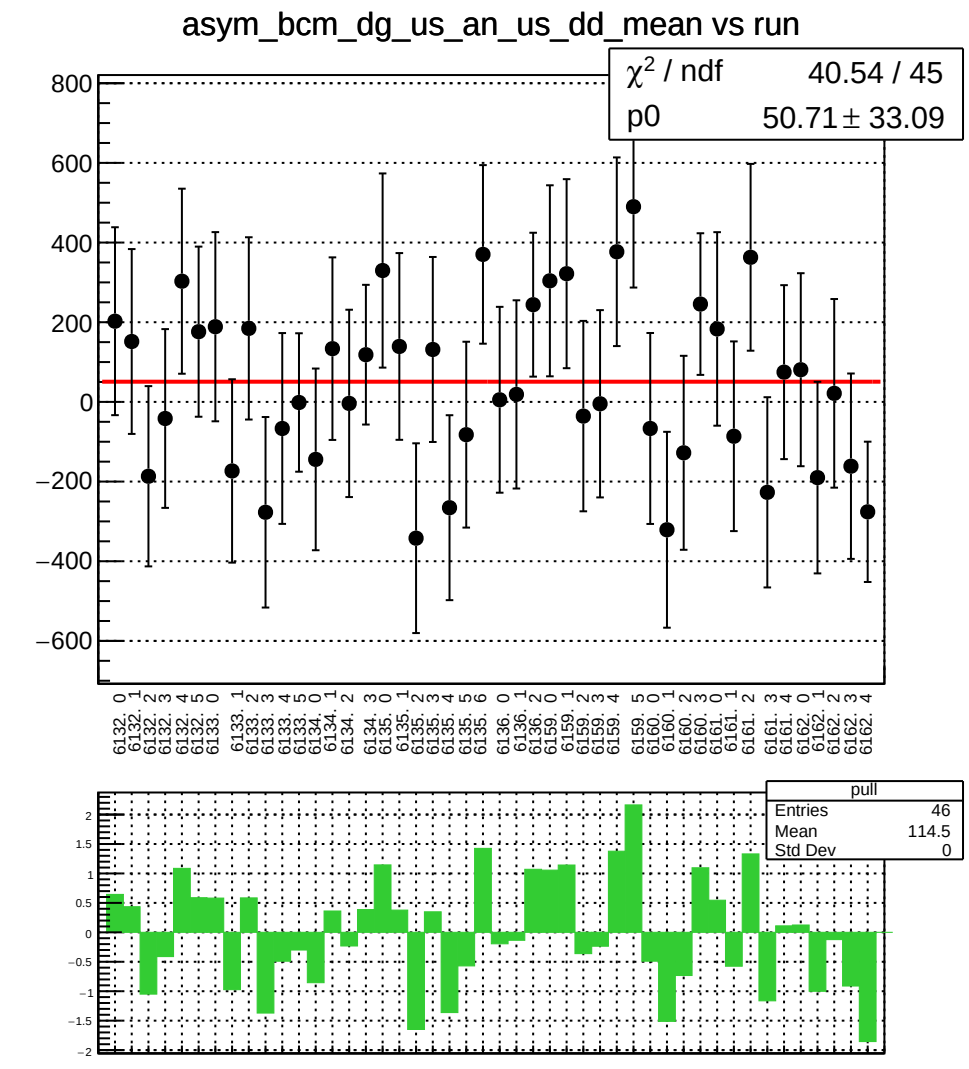

pull1D
Entries 46
Mean −0.006012
Std Dev 0.947
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

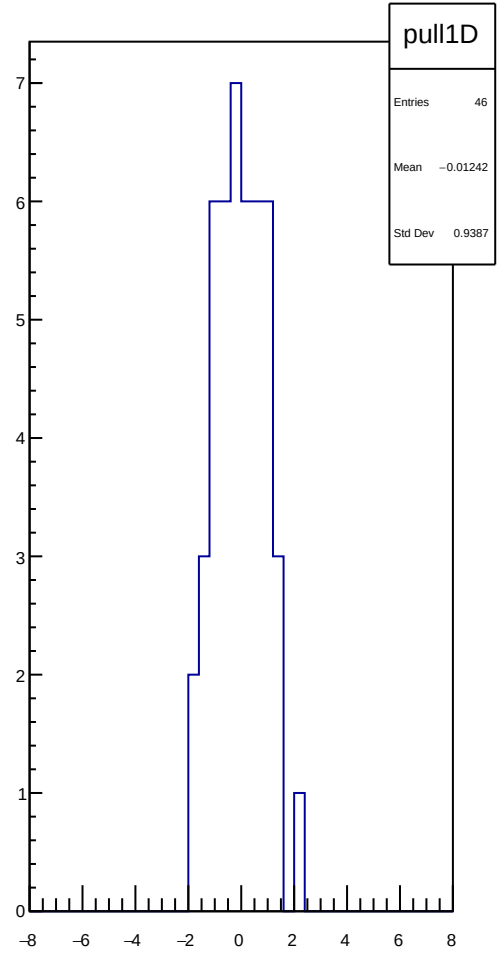

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2921 / 45
p0 30.93 ± 0.03233
35
34
33
32
31
30
29
28
27
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

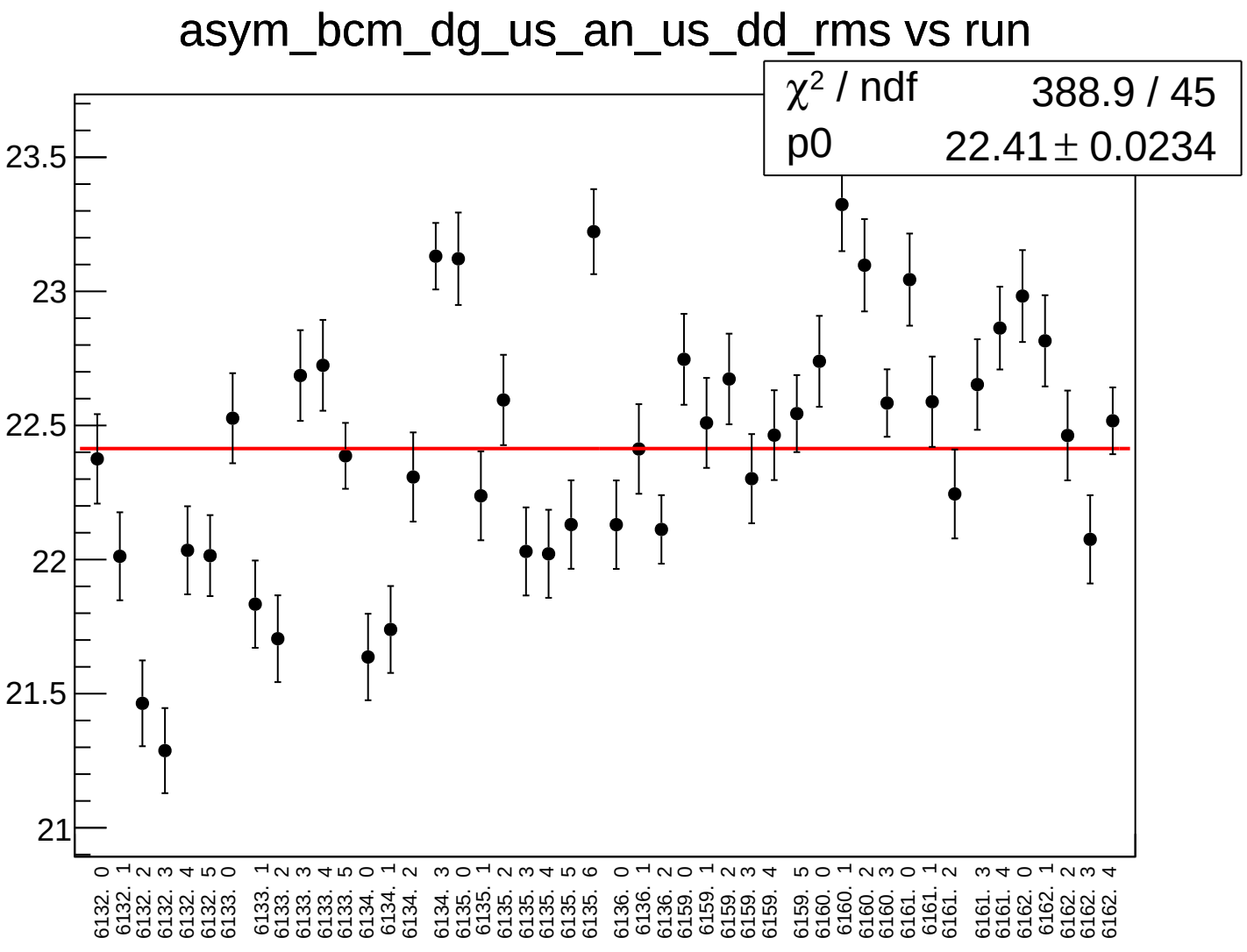

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 13.02 / 45
p0 49.42 ± 461.5
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 157.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

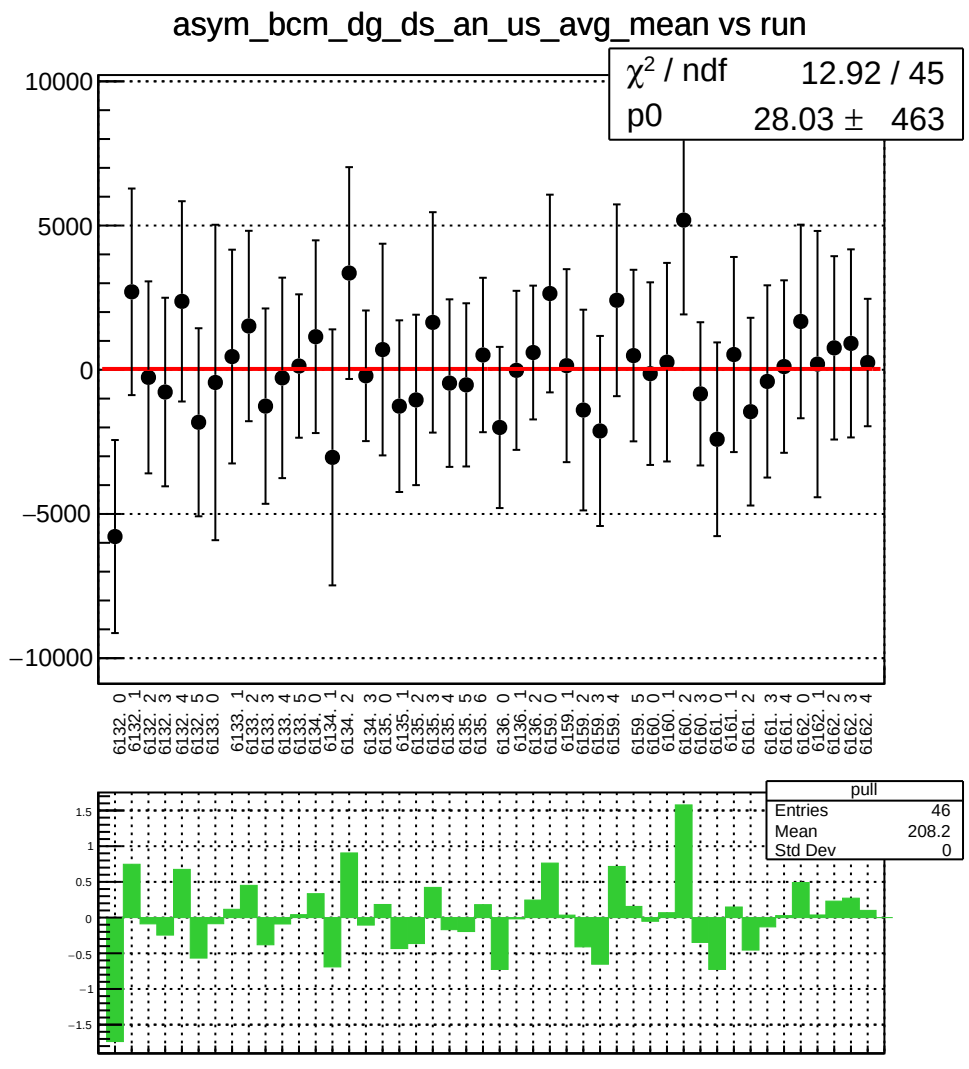

pull1D
Entries 46
Mean 0.005663
Std Dev 0.532
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

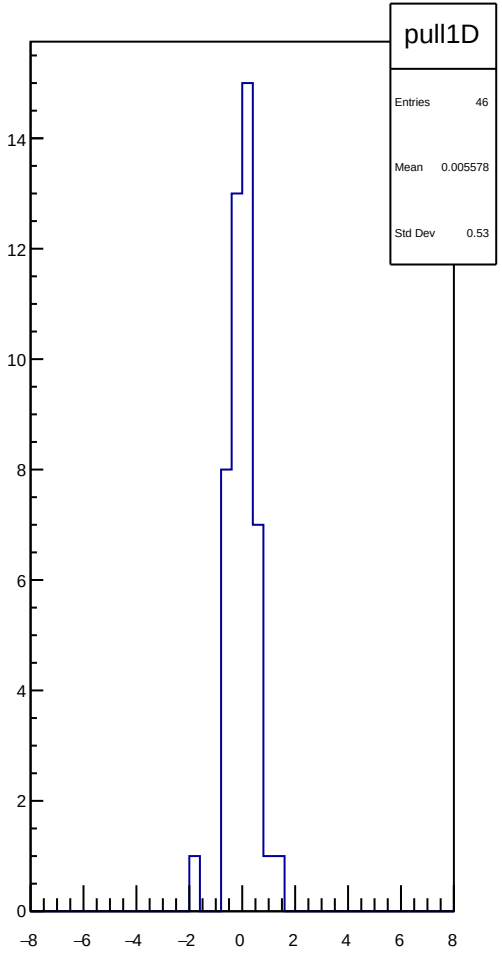

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 1.093e+04 / 45
p0 310.8 ± 0.3263
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

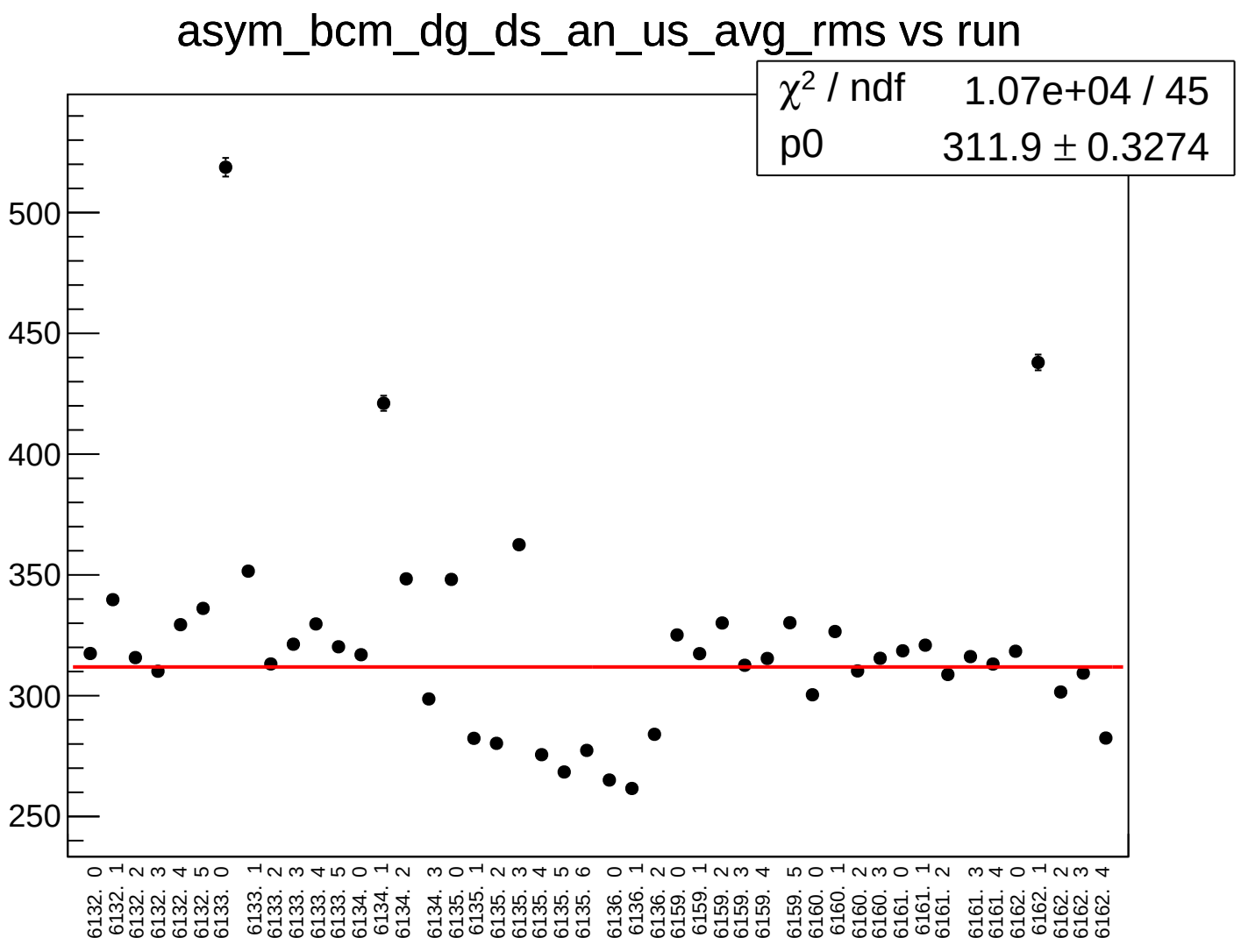

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 40.54 / 45
p0 50.71 ± 33.09
pull
Entries 46
Mean 114.5
Std Dev 0

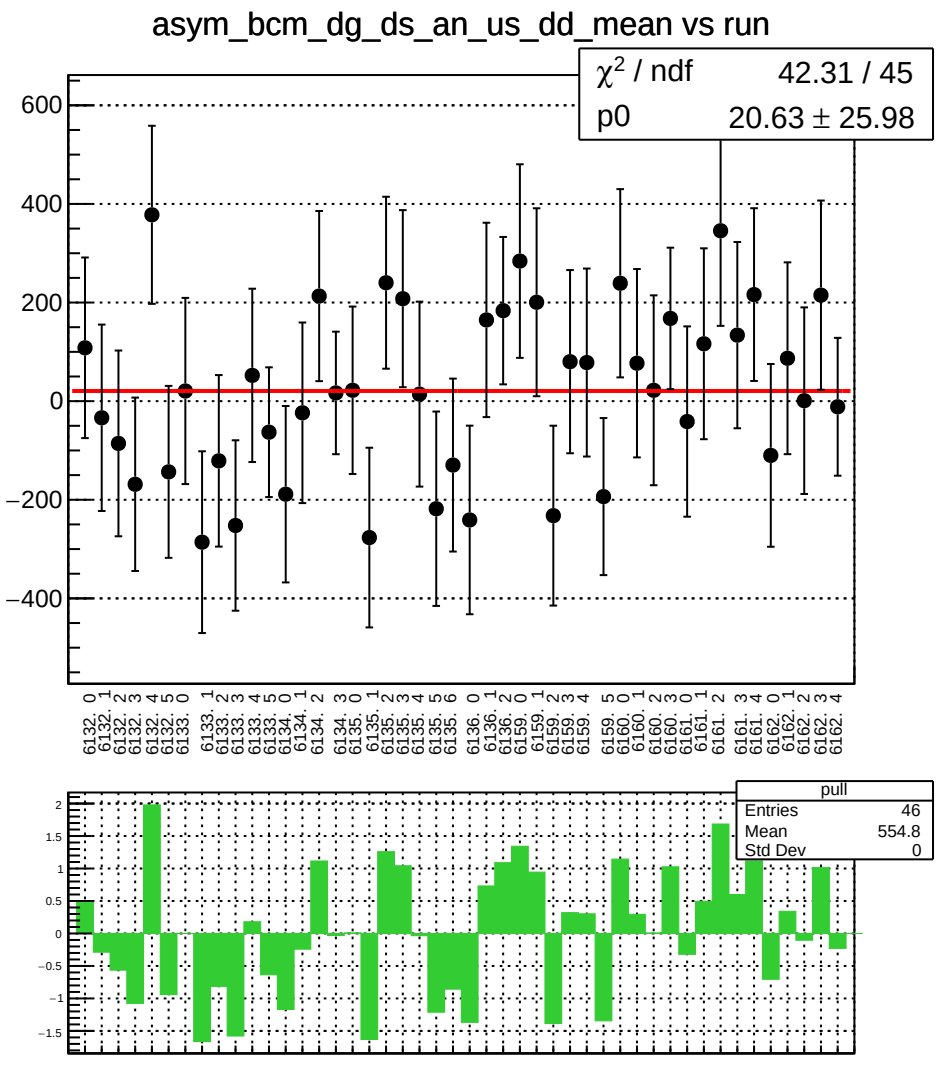

pull1D
Entries 46
Mean −0.01242
Std Dev 0.9387

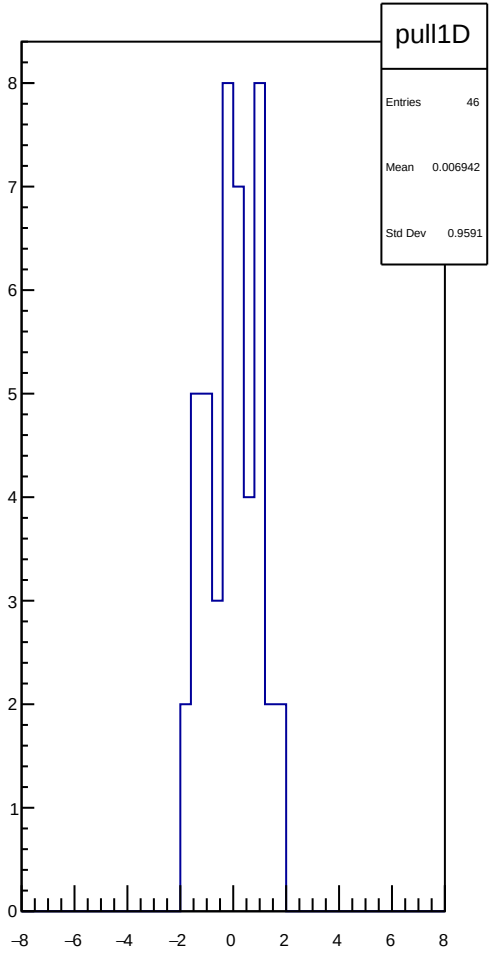

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 388.9 / 45
p0 22.41 ± 0.0234
23.5
23
22.5
22
21.5
21
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

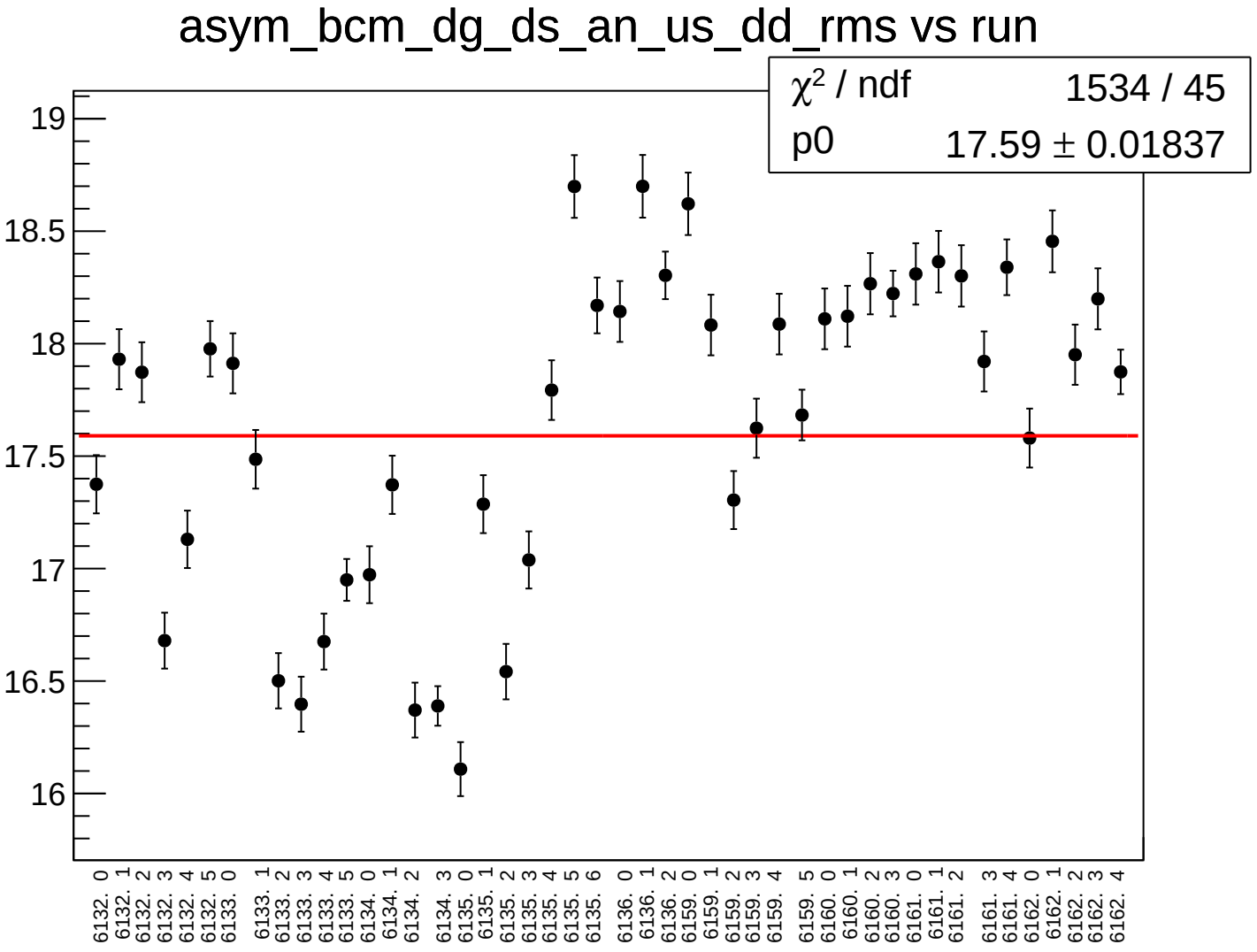

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 12.92 / 45
p0 28.03 ± 463
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 208.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

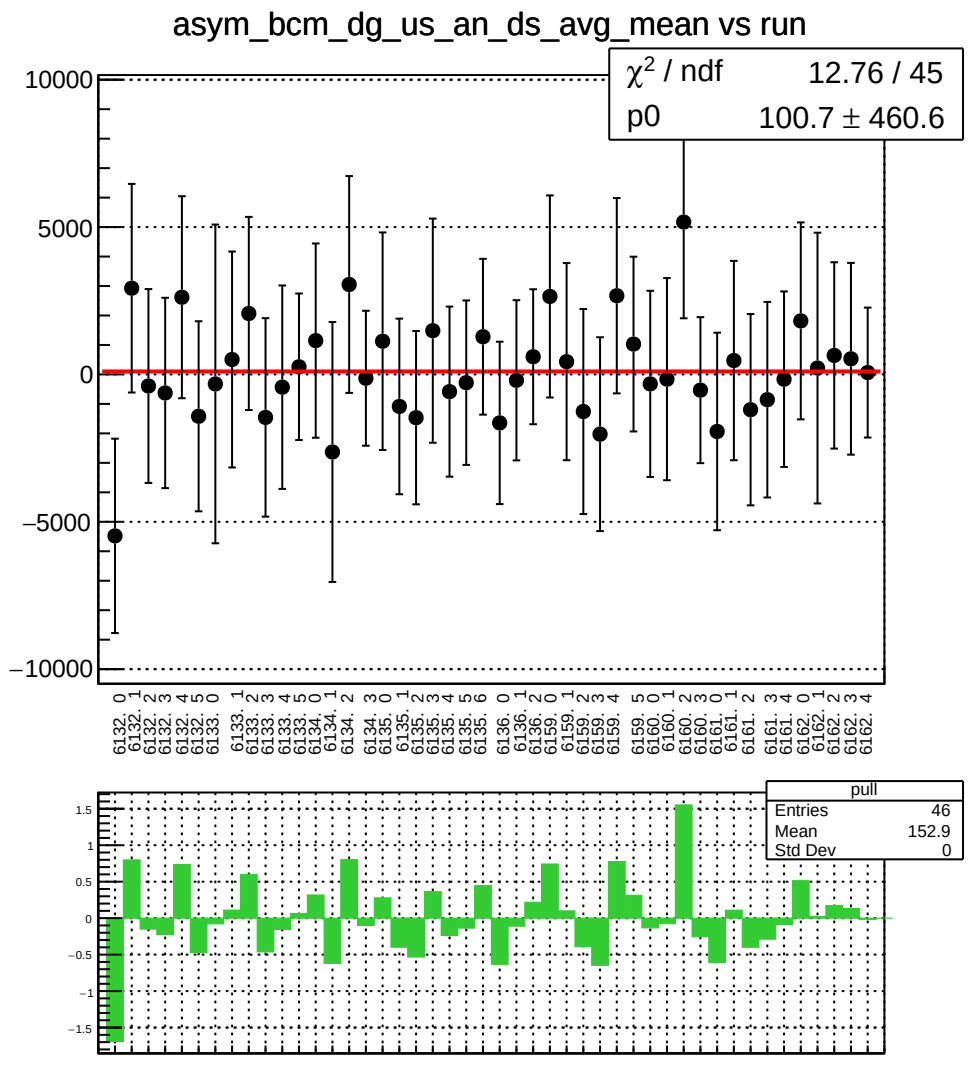

pull1D
Entries 46
Mean 0.005578
Std Dev 0.53
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

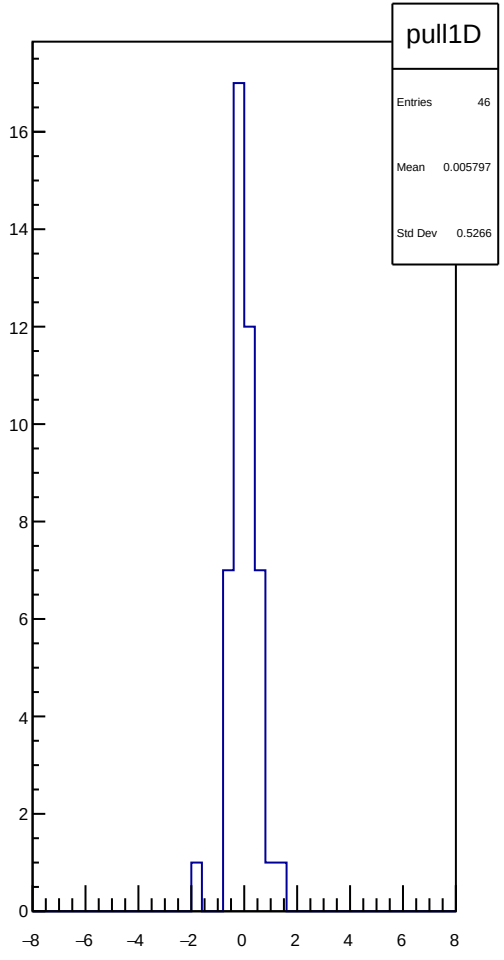

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 1.07e+04 / 45
p0 311.9 ± 0.3274
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

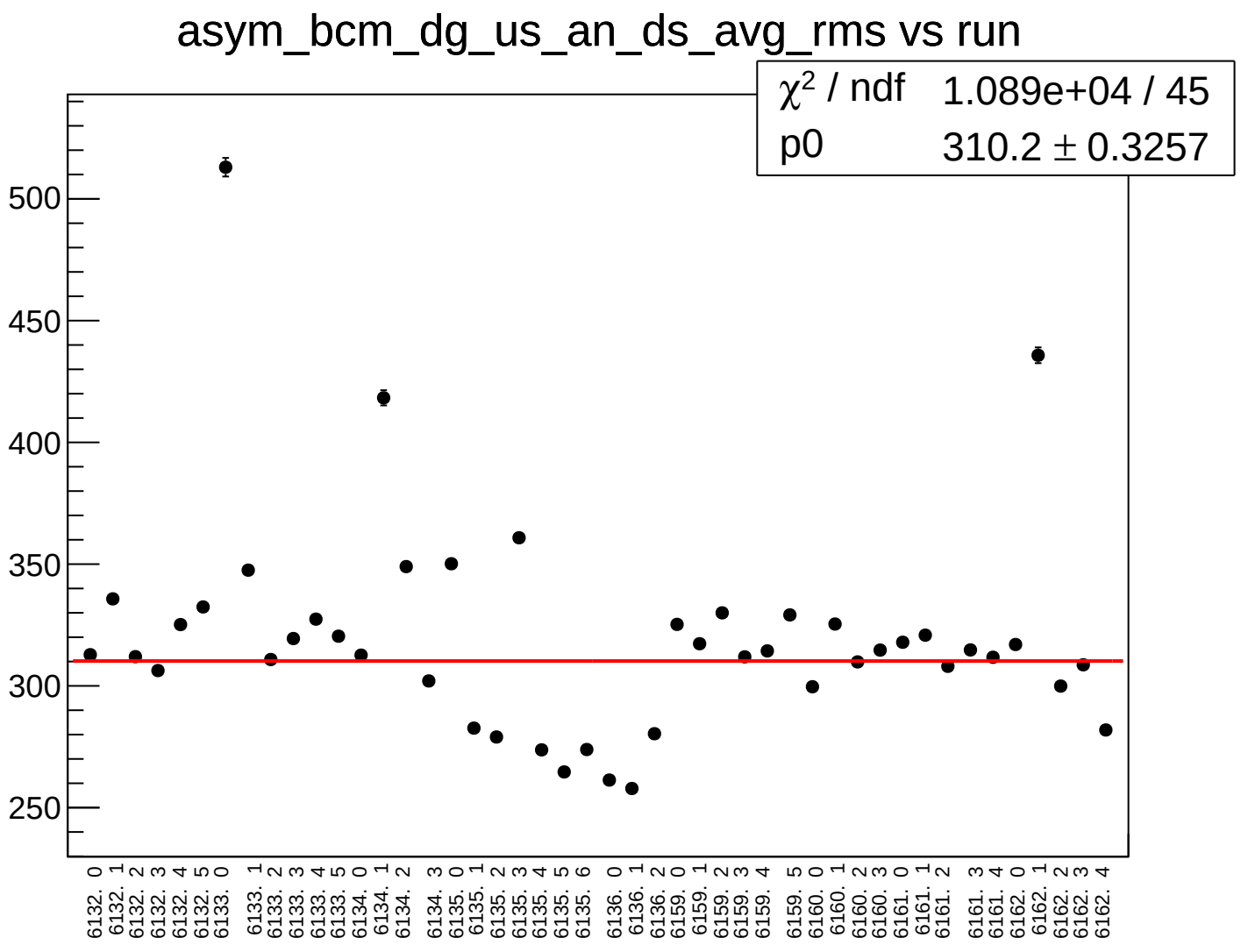

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 42.31 / 45
p0 20.63 ± 25.98
600
400
200
0
−200
−400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 554.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

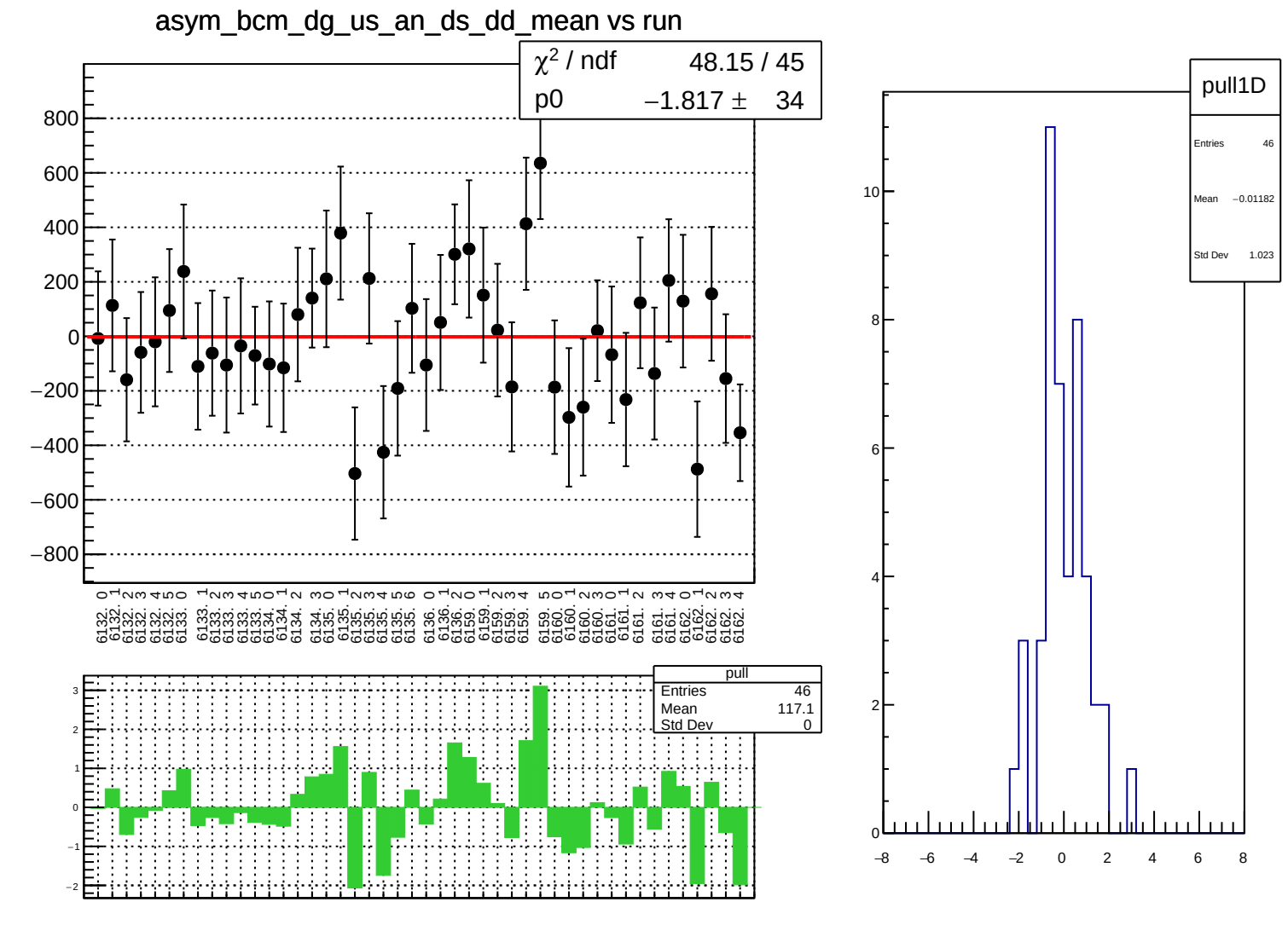

pull1D
Entries 46
Mean 0.006942
Std Dev 0.9591
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

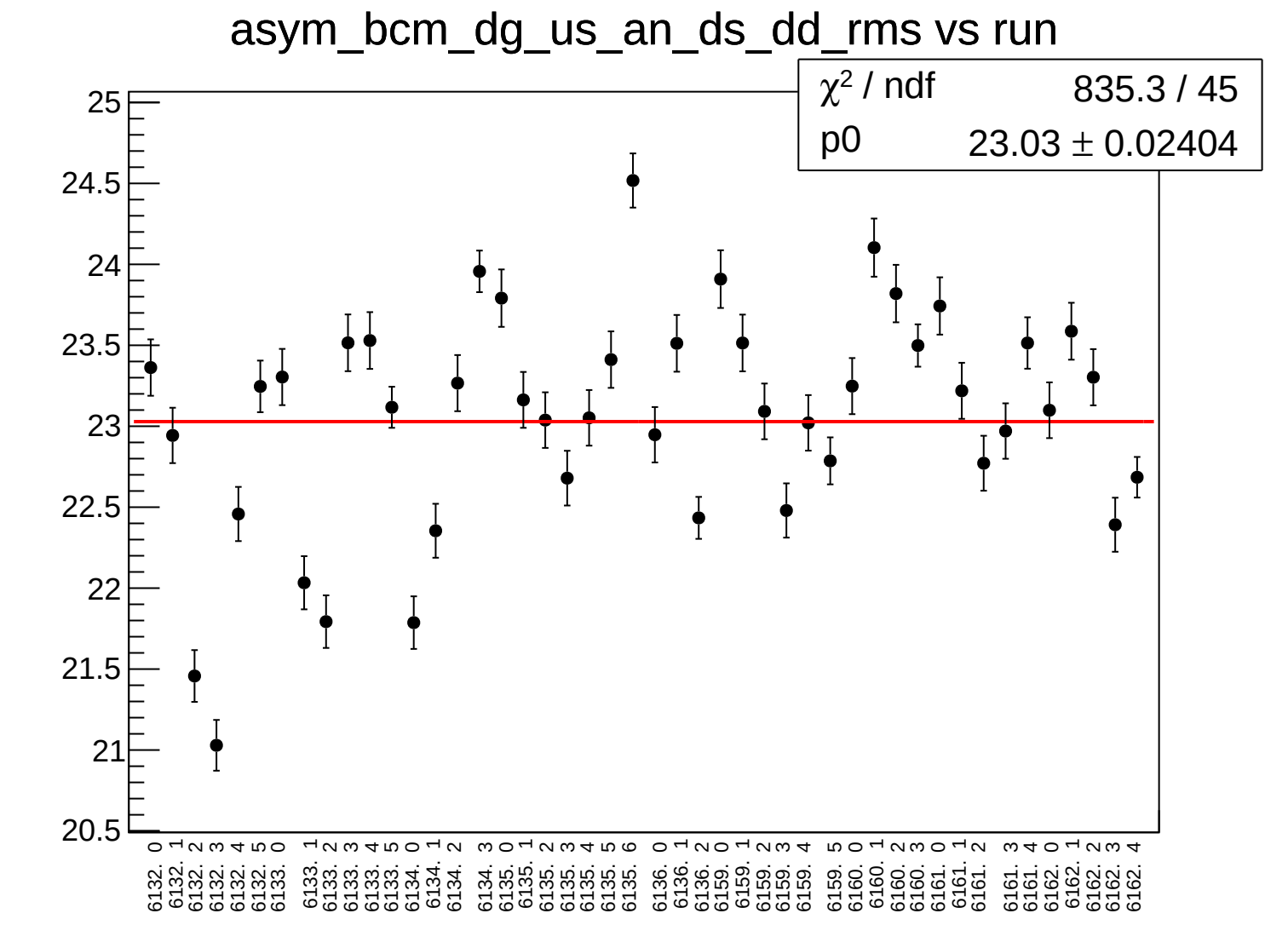

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 1534 / 45
p0 17.59 ± 0.01837
19
18.5
18
17.5
17
16.5
16
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

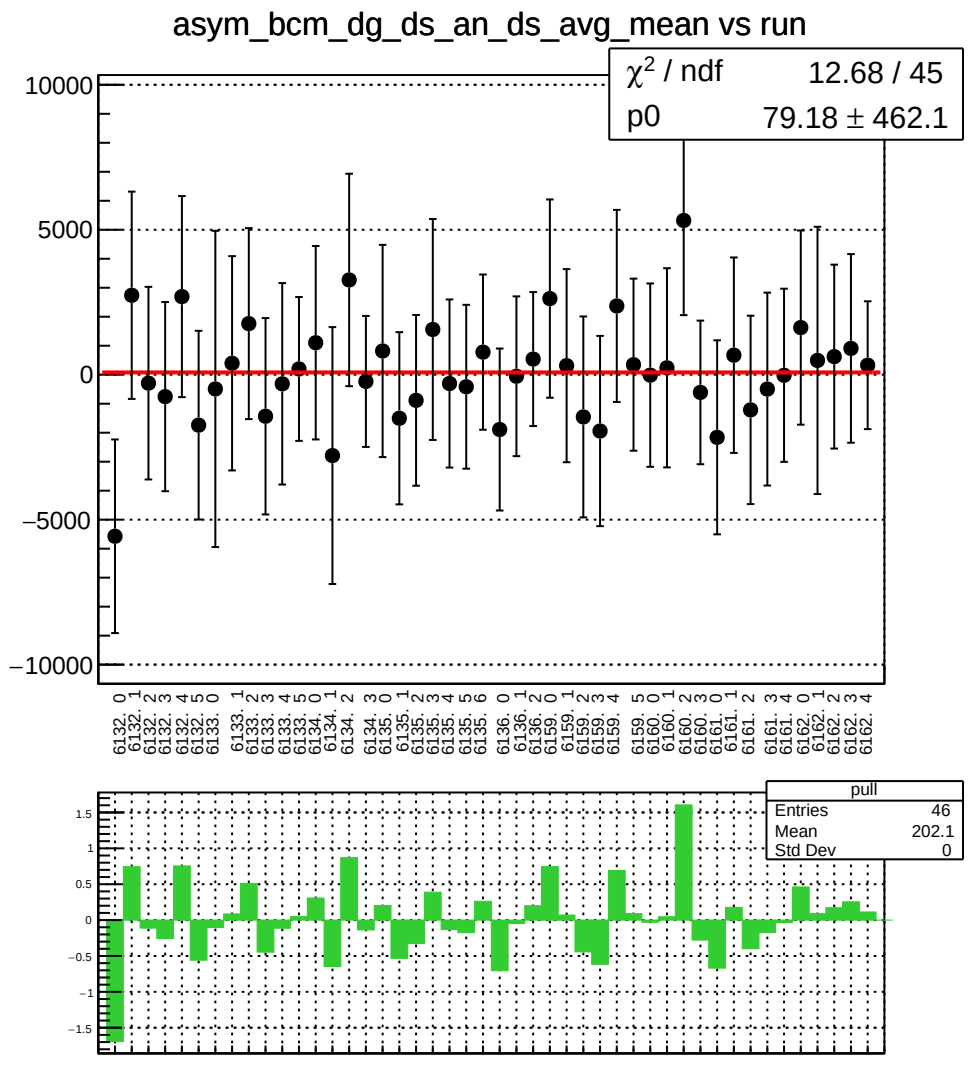

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 12.76 / 45
p0 100.7 ± 460.6
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 152.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

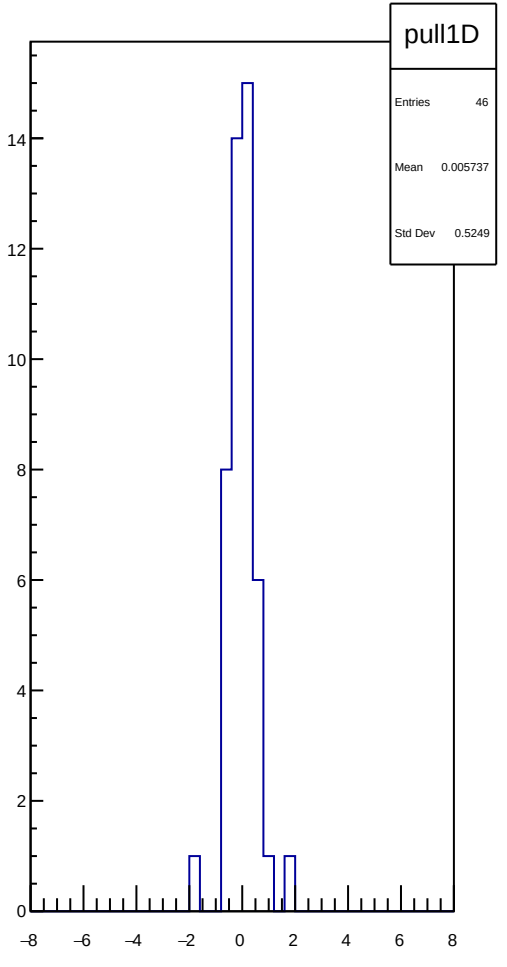

pull1D
Entries 46
Mean 0.005797
Std Dev 0.5266
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

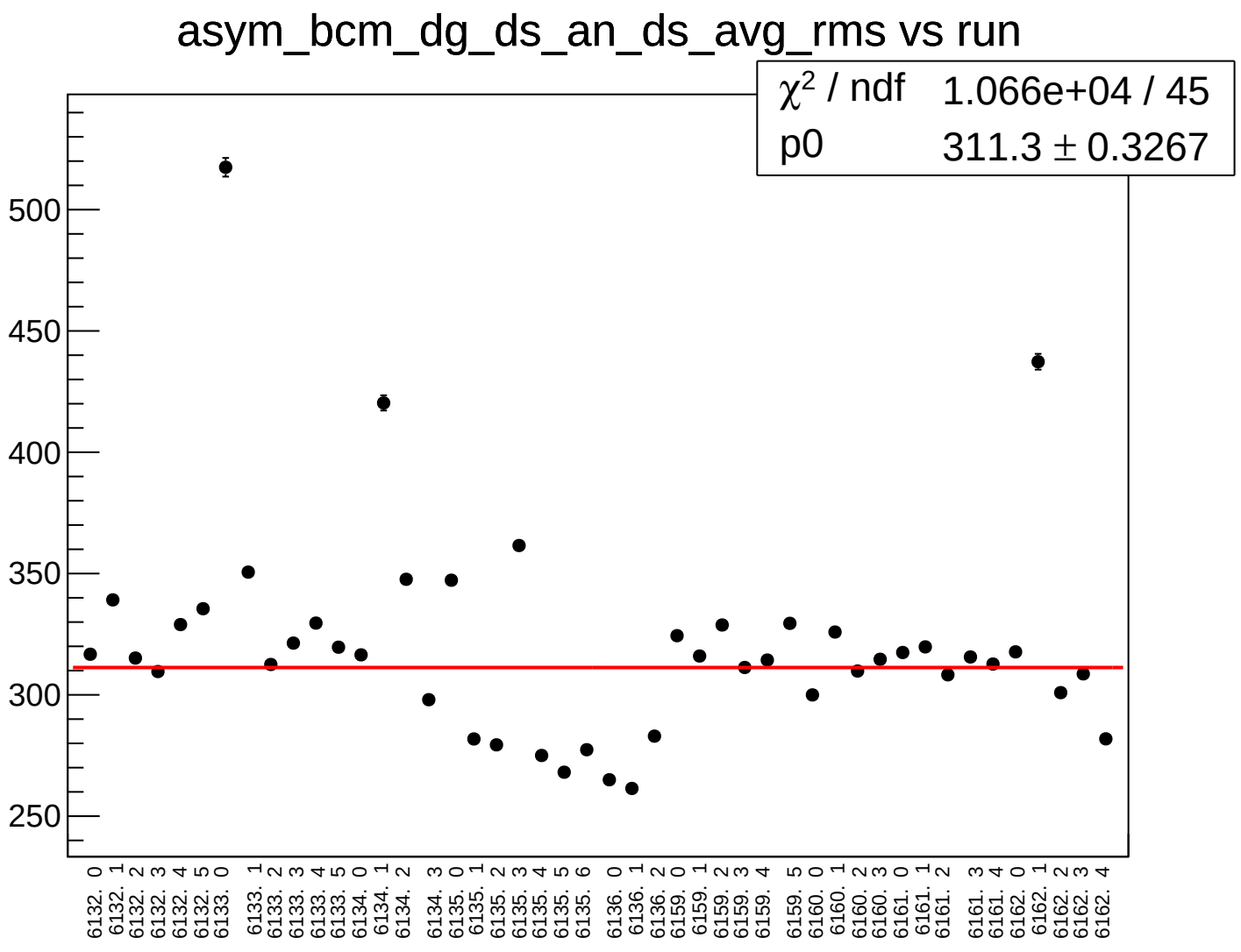

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 1.089e+04 / 45
p0 310.2 ± 0.3257
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

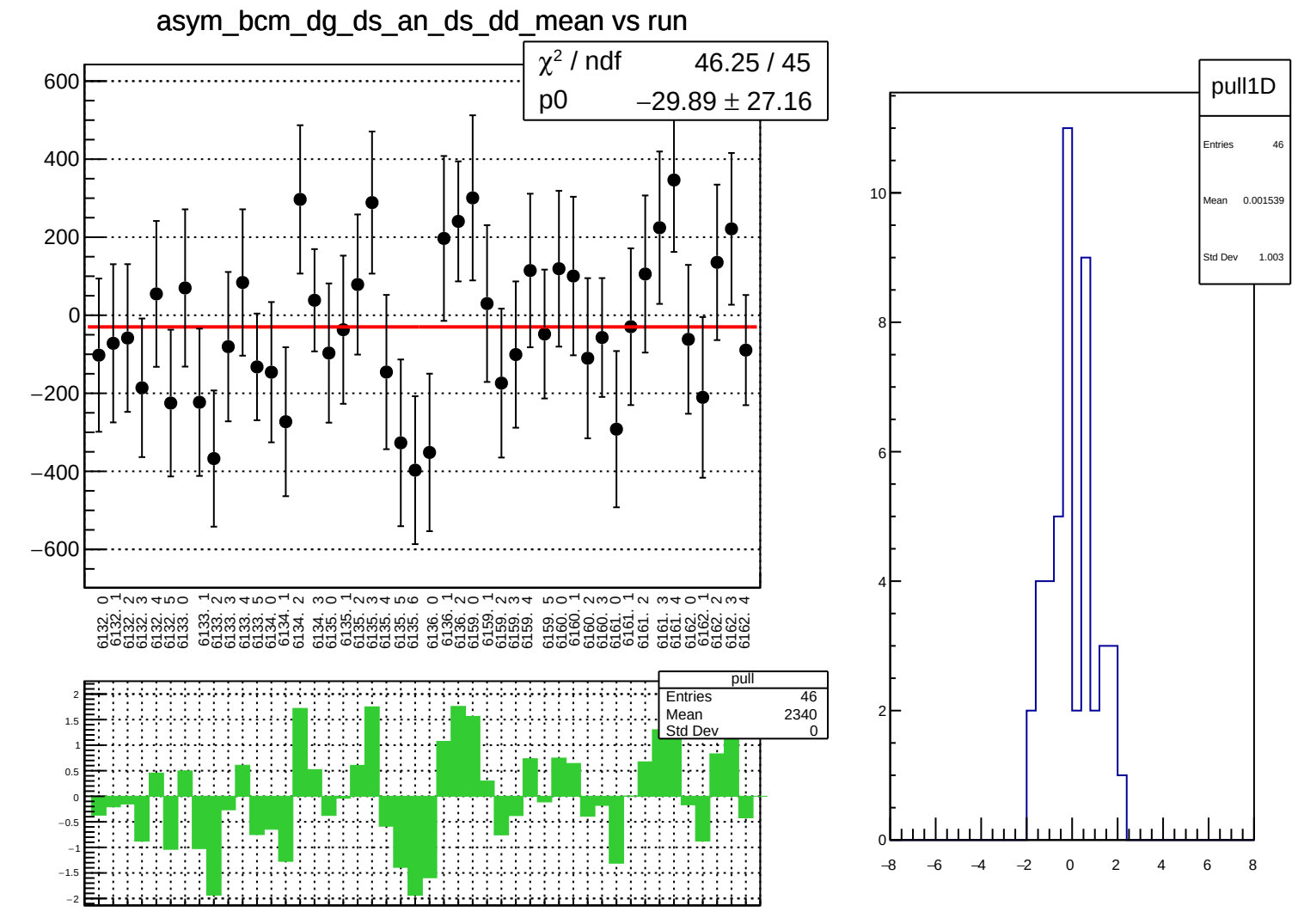

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 48.15 / 45
p0 −1.817 ± 34
800
600
400
200
0
−200
−400
−600
−800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 117.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.01182
Std Dev 1.023
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

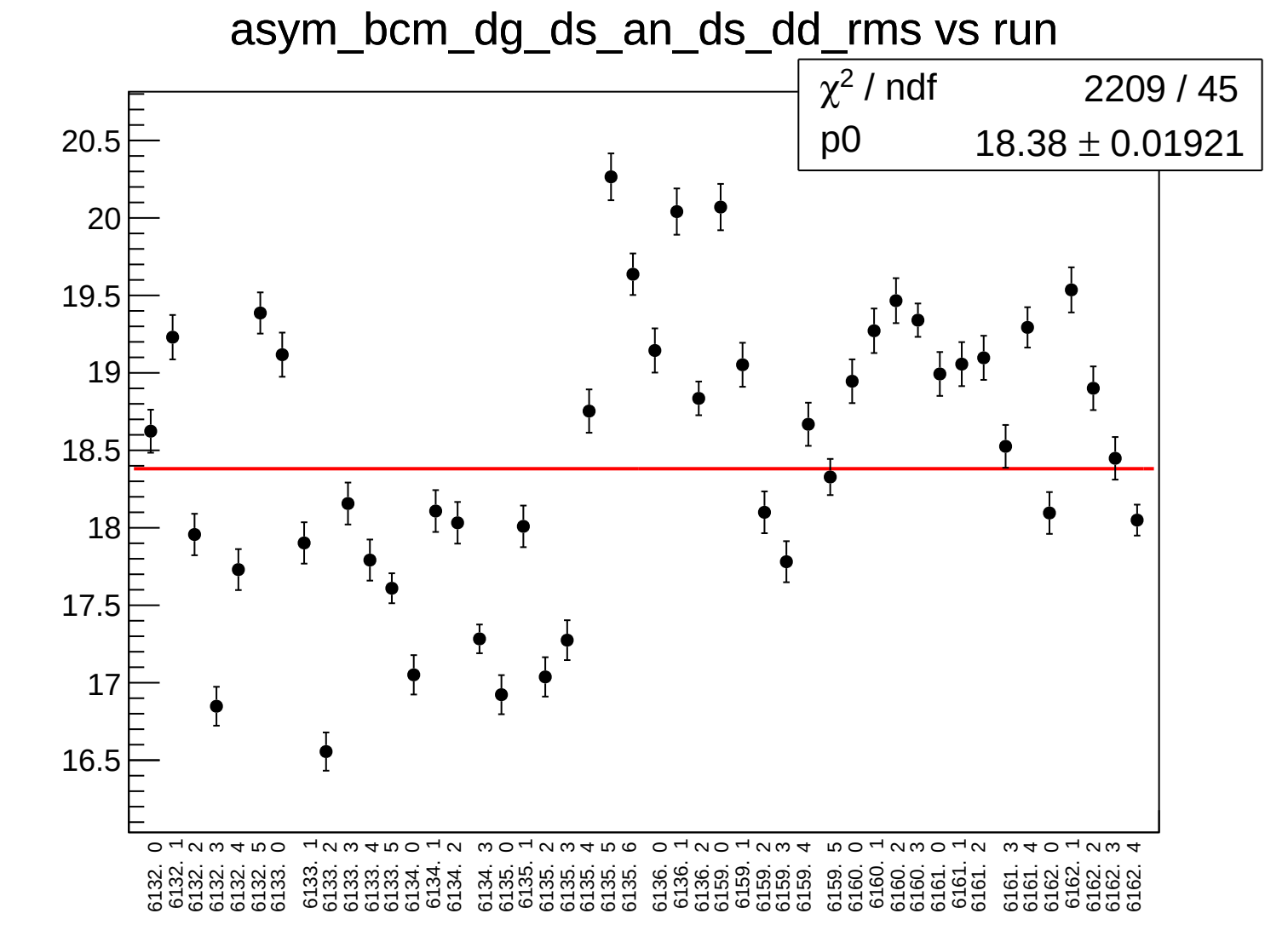

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 835.3 / 45
p0 23.03 ± 0.02404
25
24.5
24
23.5
23
22.5
22
21.5
21
20.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

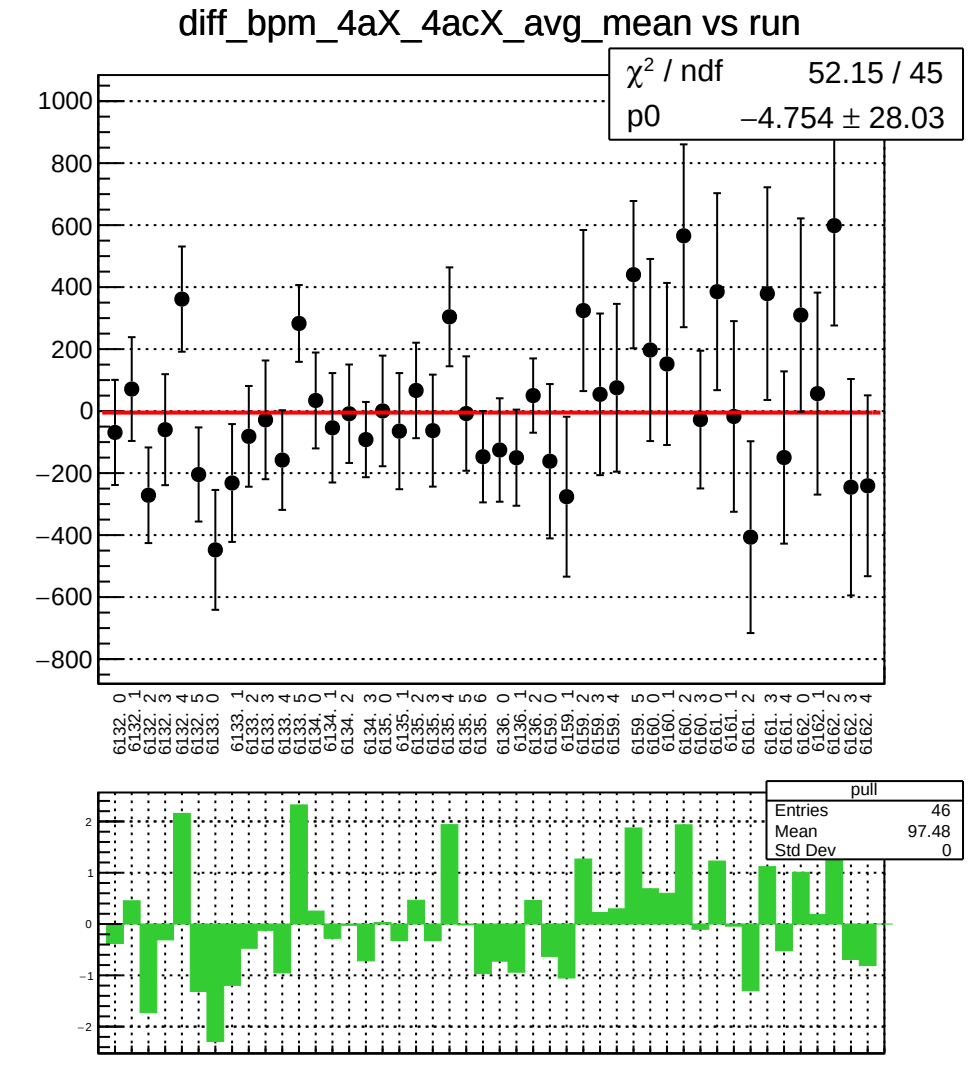

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 12.68 / 45
p0 79.18 ± 462.1
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 202.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

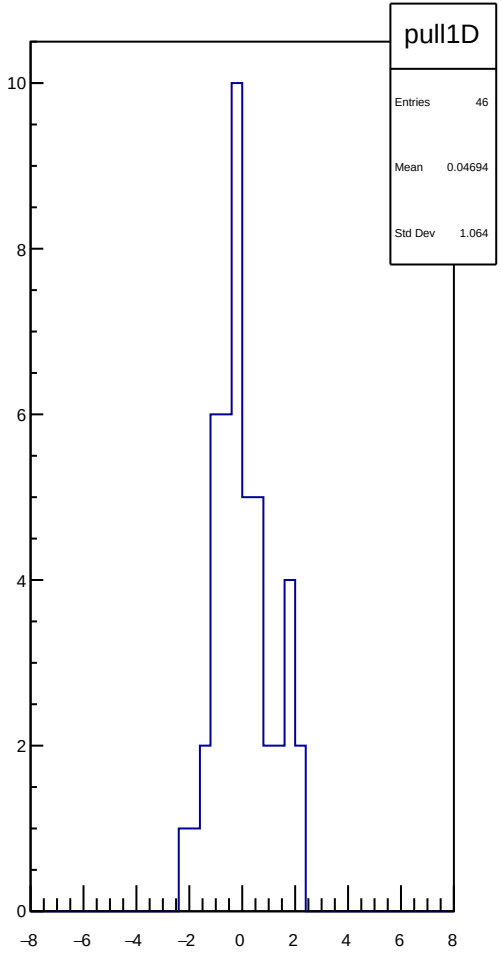

pull1D
Entries 46
Mean 0.005737
Std Dev 0.5249
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

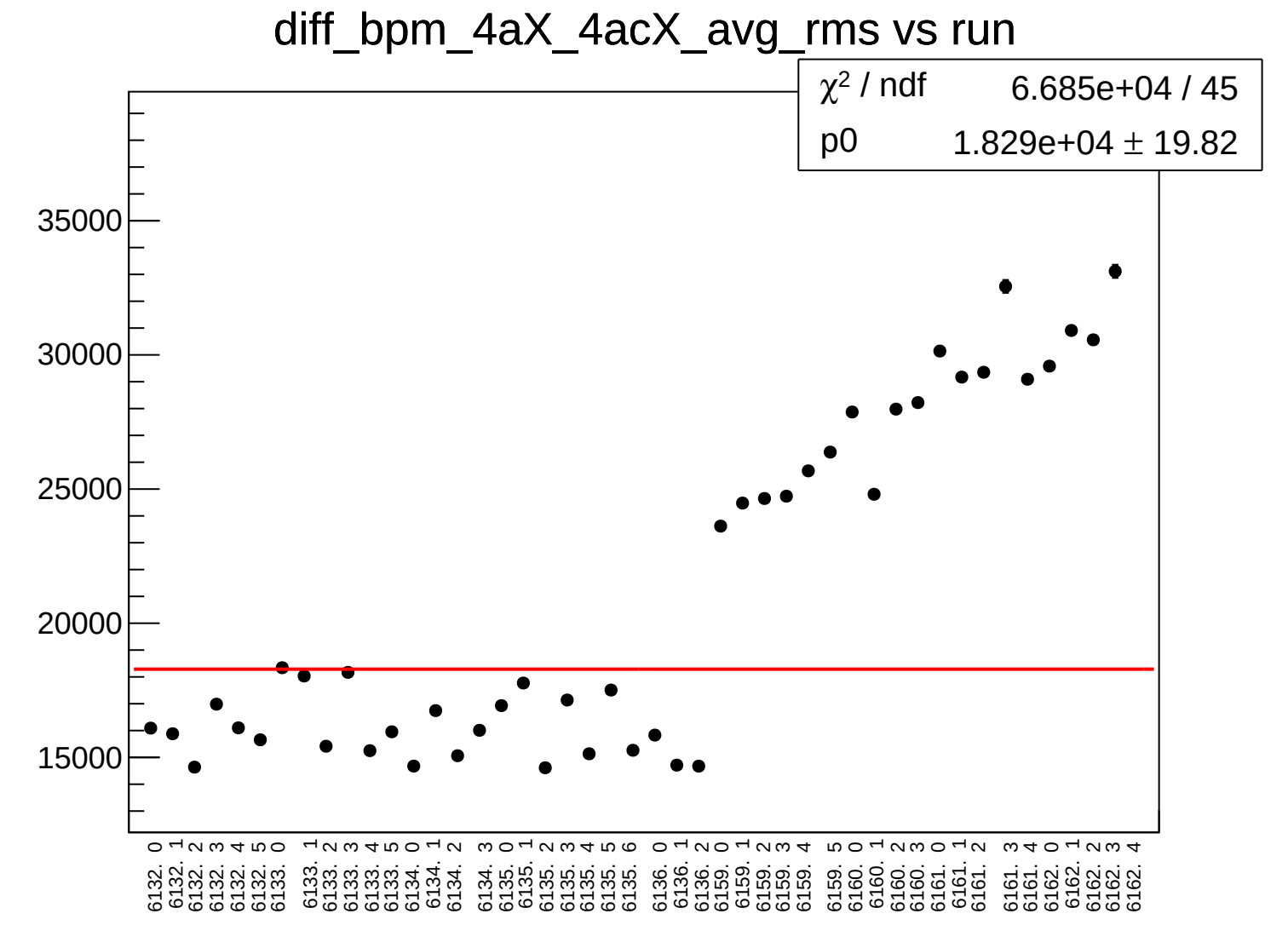

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 1.066e+04 / 45
p0 311.3 ± 0.3267
500
450
400
350
300
250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

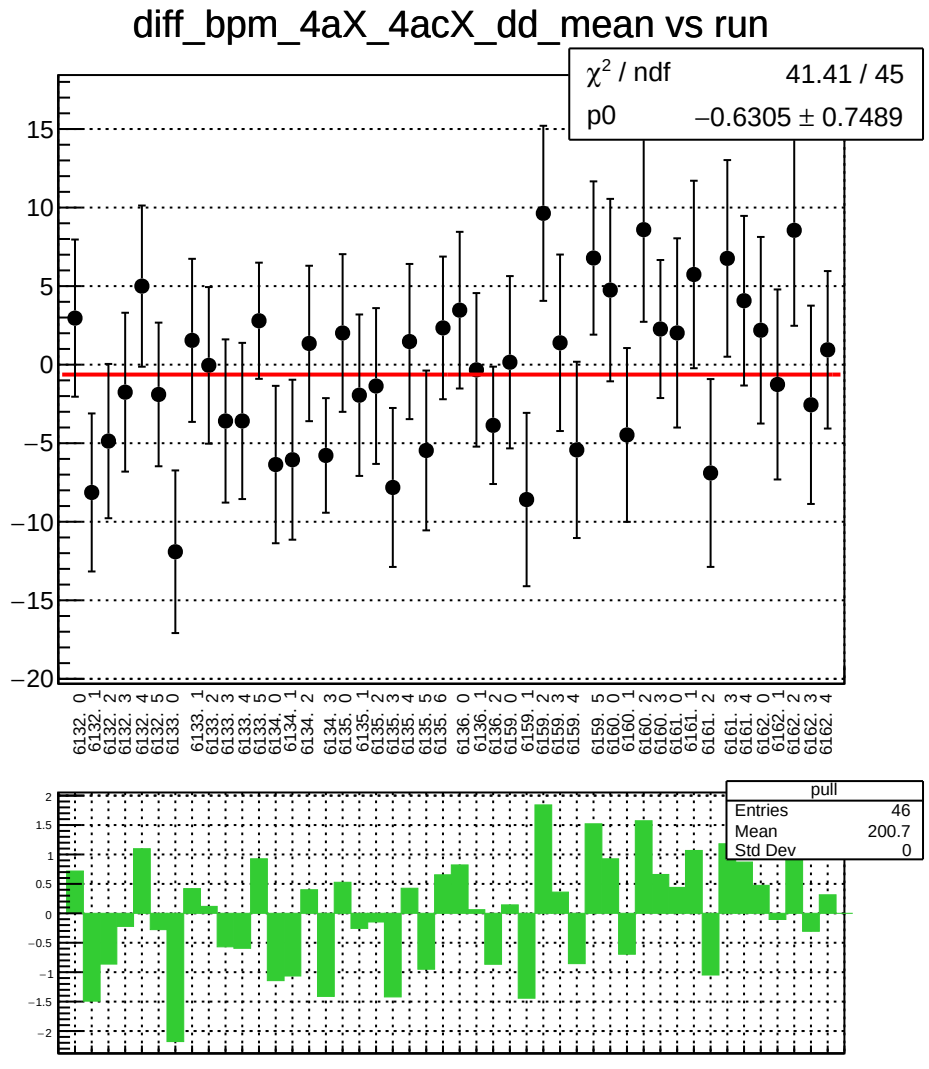

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 46.25 / 45
p0 −29.89 ± 27.16
600
400
200
0
−200
−400
−600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 2340
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.001539
Std Dev 1.003
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

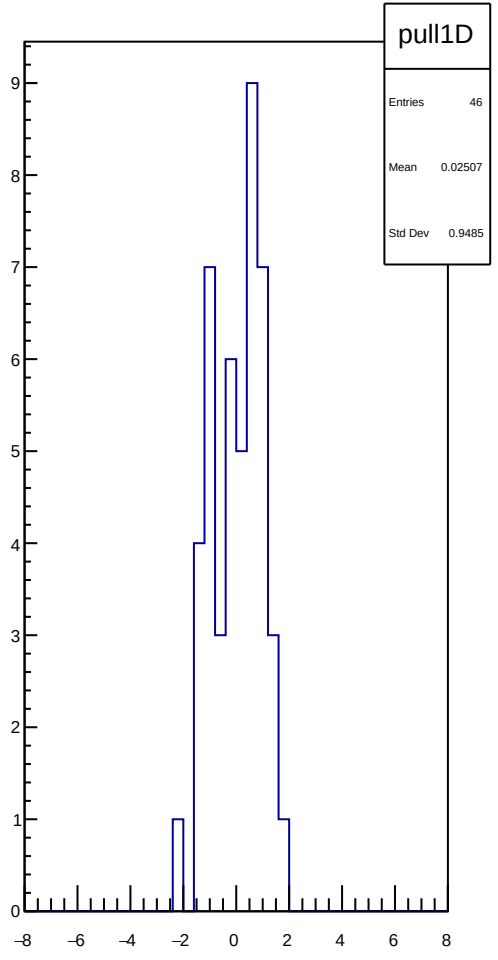

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 2209 / 45
p0 18.38 ± 0.01921
20.5
20
19.5
19
18.5
18
17.5
17
16.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

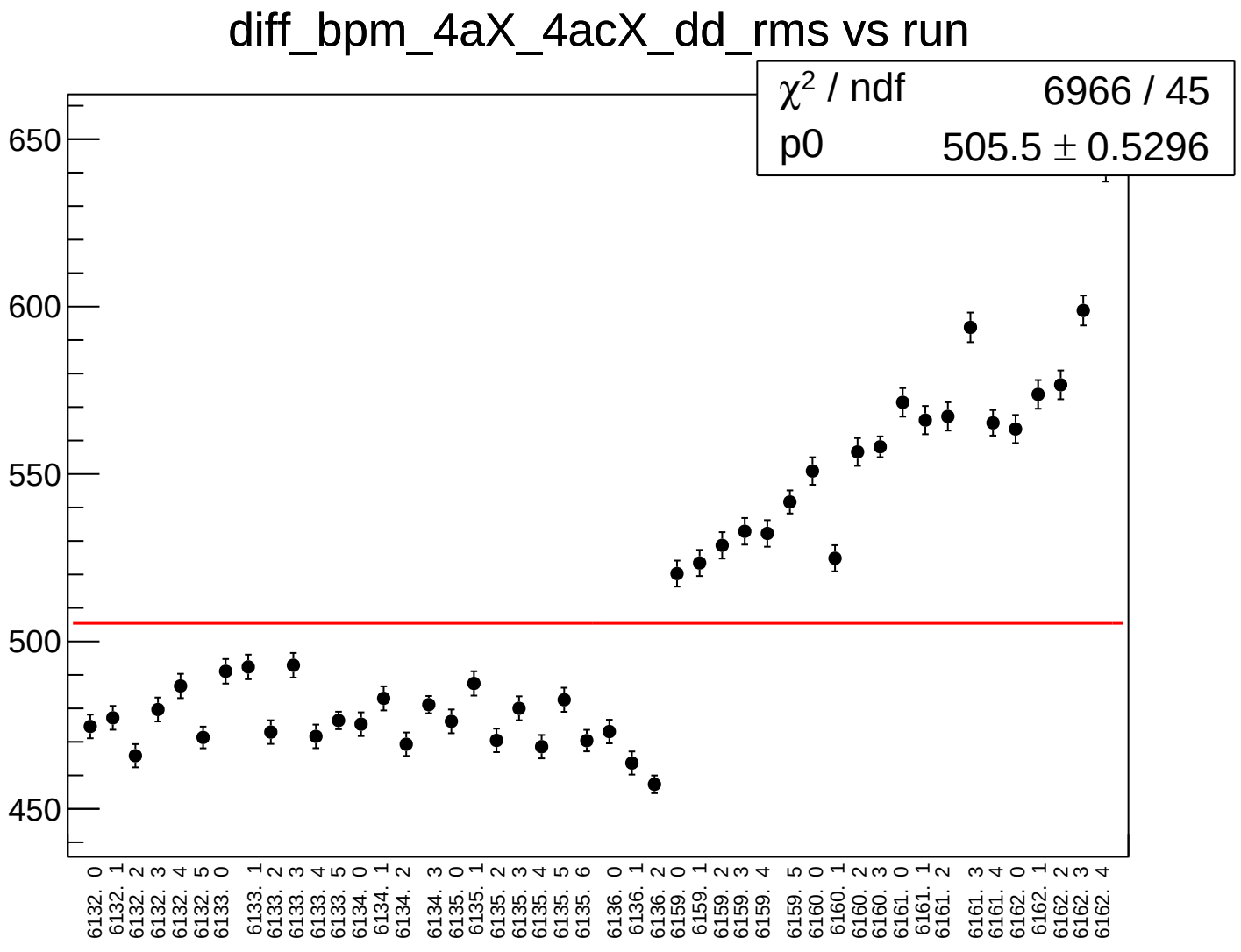

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 52.15 / 45
p0 −4.754 ± 28.03
pull
Entries 46
Mean 97.48
Std Dev 0

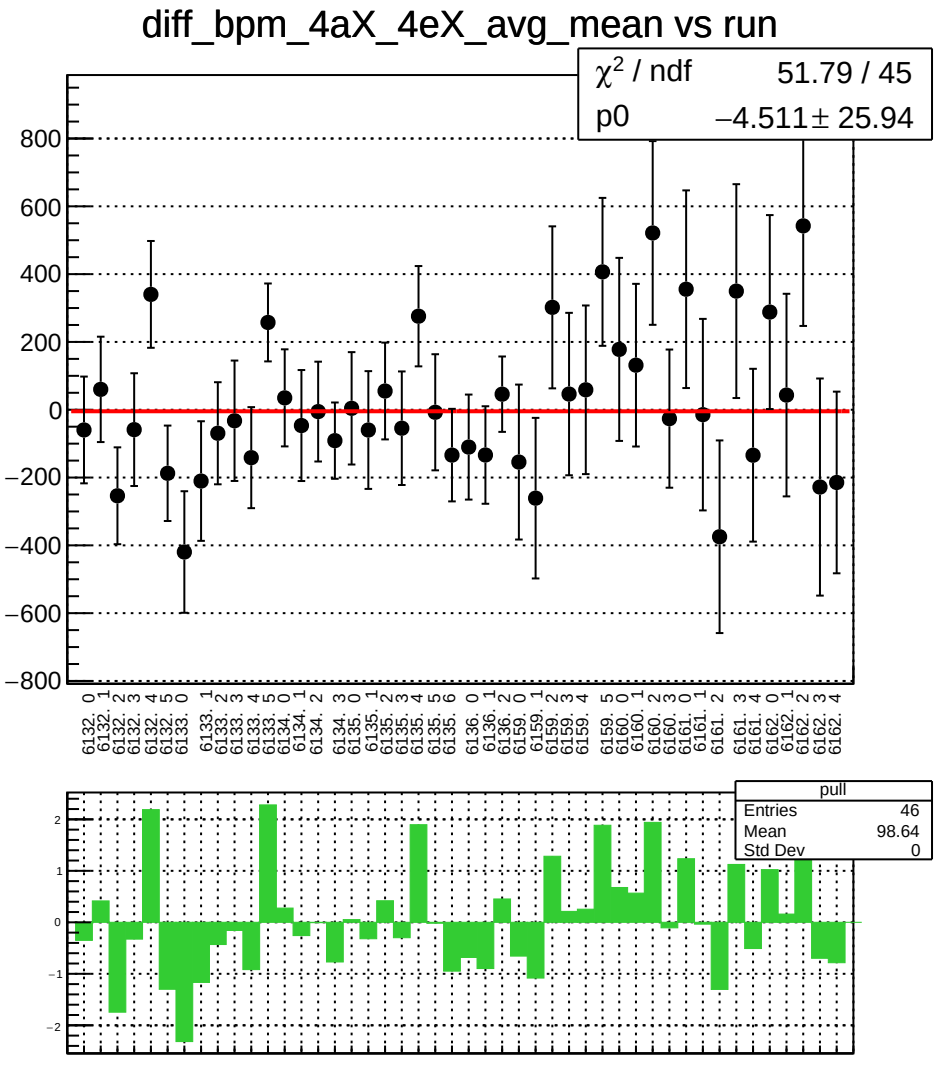

pull1D
Entries 46
Mean 0.04694
Std Dev 1.064

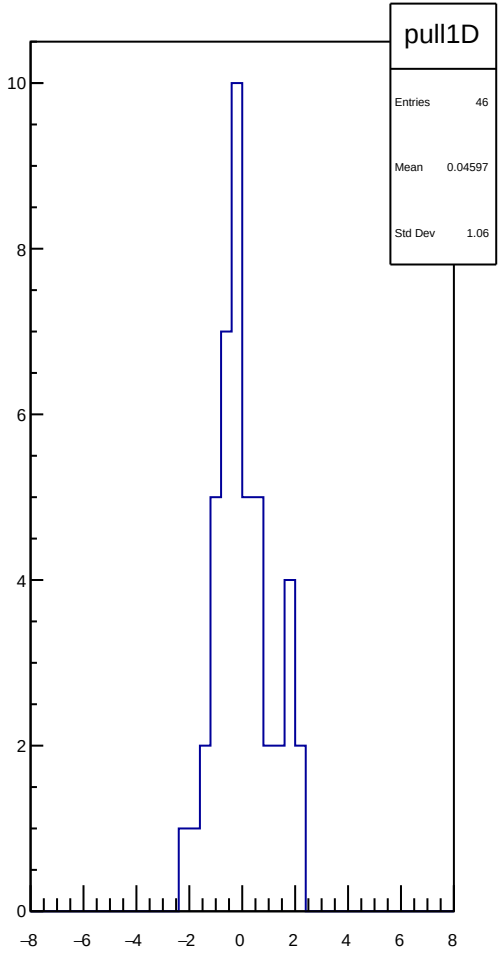

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 6.685e+04 / 45
p0 1.829e+04 ± 19.82
35000
30000
25000
20000
15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

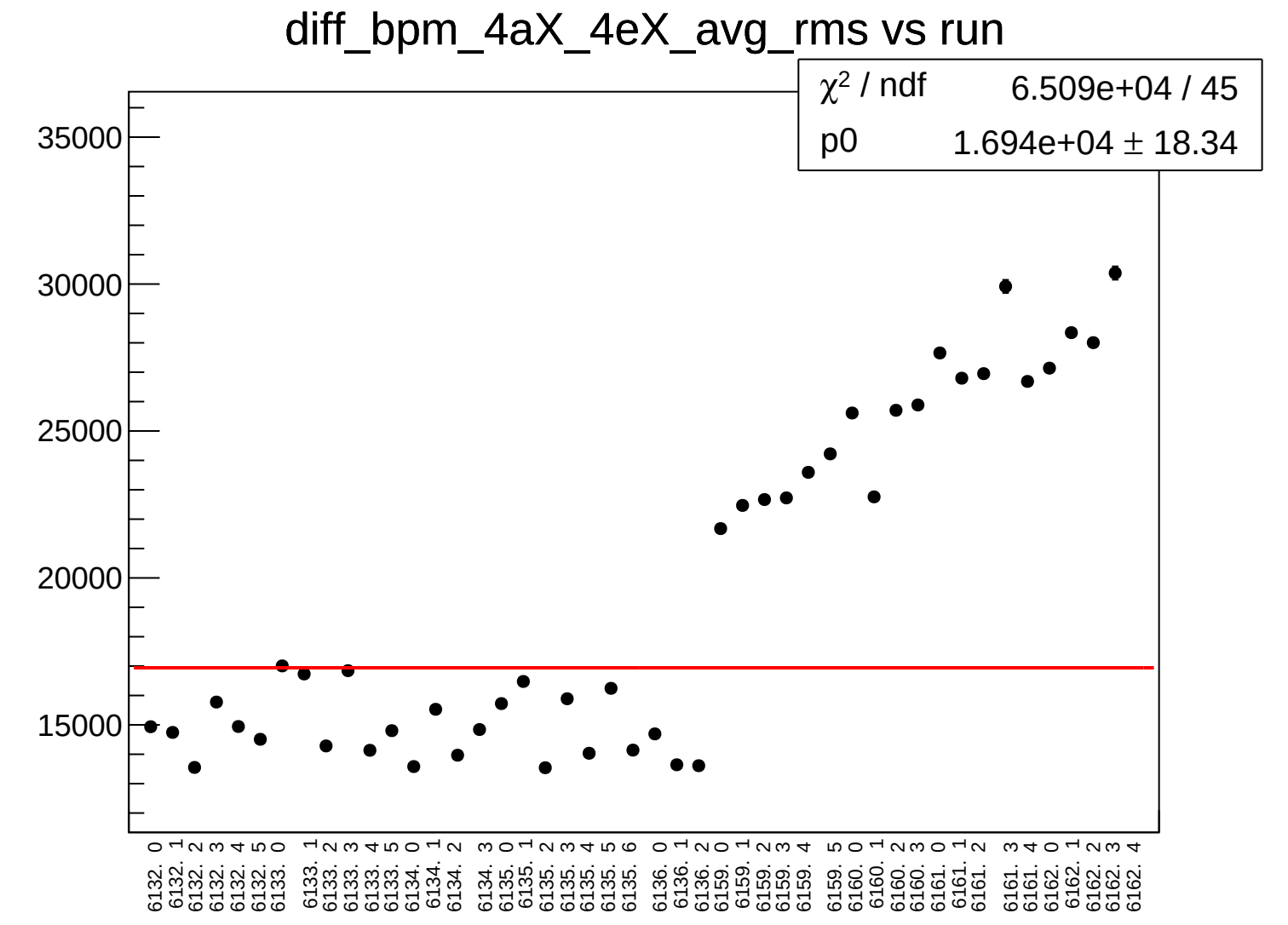

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 41.41 / 45
p0 −0.6305 ± 0.7489
pull
Entries 46
Mean 200.7
Std Dev 0

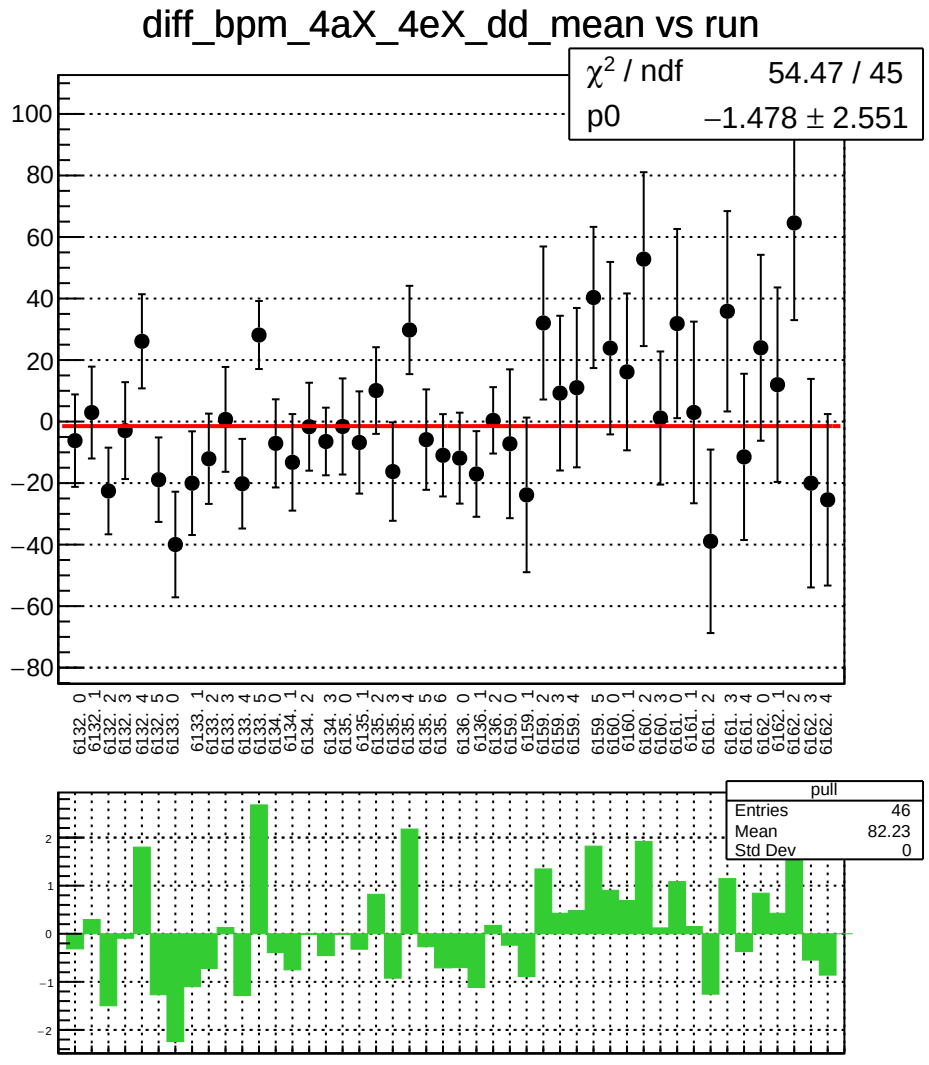

pull1D
Entries 46
Mean 0.02507
Std Dev 0.9485

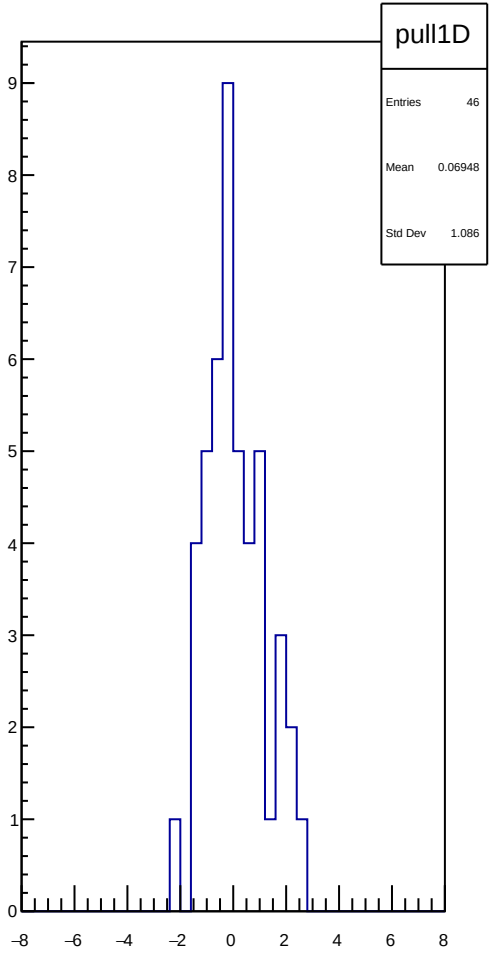

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 6966 / 45
p0 505.5 ± 0.5296
650
600
550
500
450
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

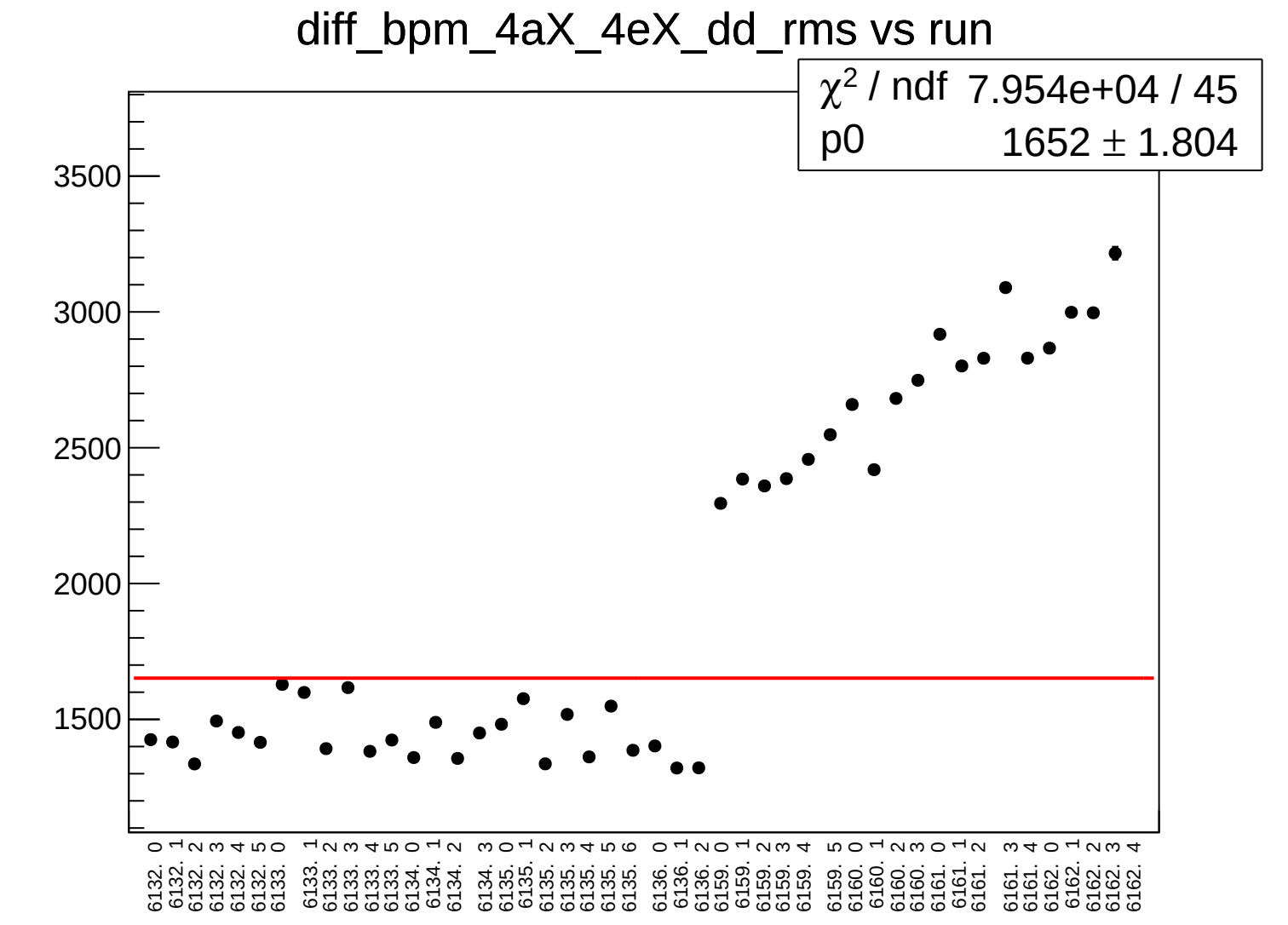

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 51.79 / 45
p0 −4.511± 25.94
pull
Entries 46
Mean 98.64
Std Dev 0

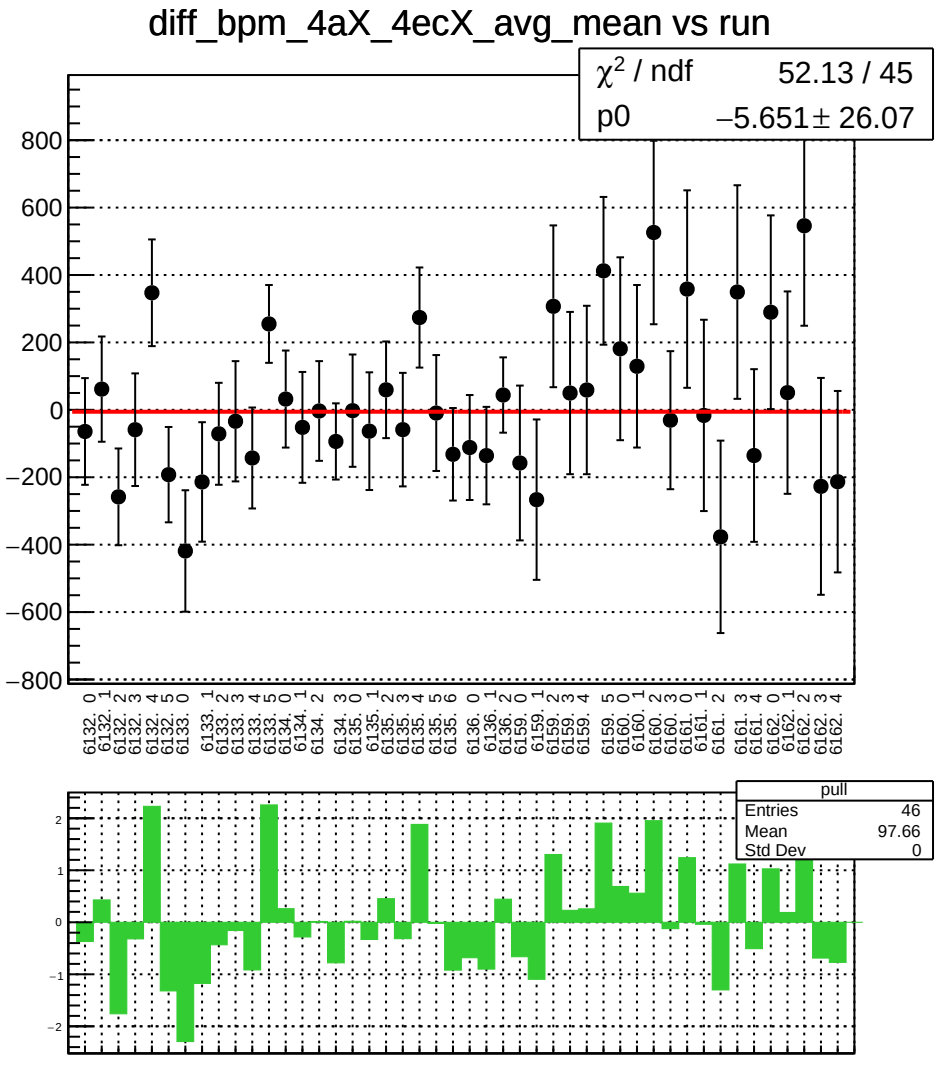

pull1D
Entries 46
Mean 0.04597
Std Dev 1.06

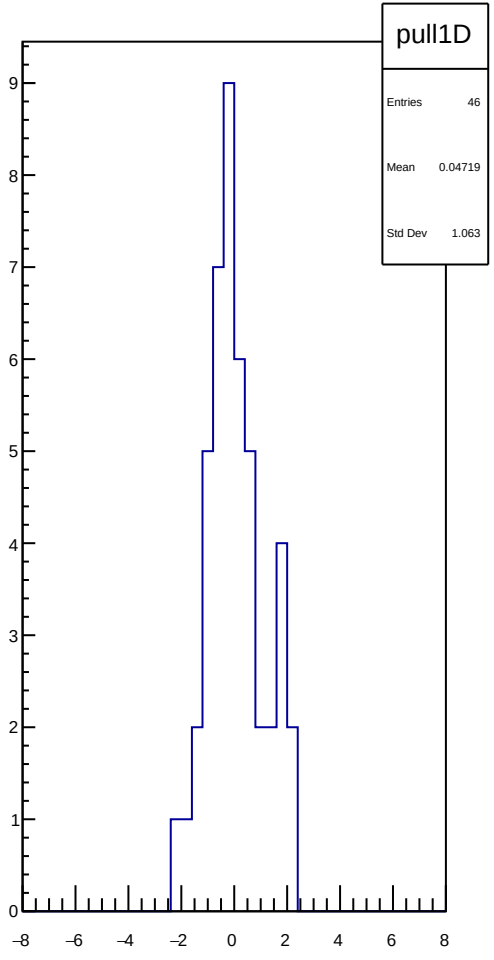

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 6.509e+04 / 45
p0 1.694e+04 ± 18.34
35000
30000
25000
20000
15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

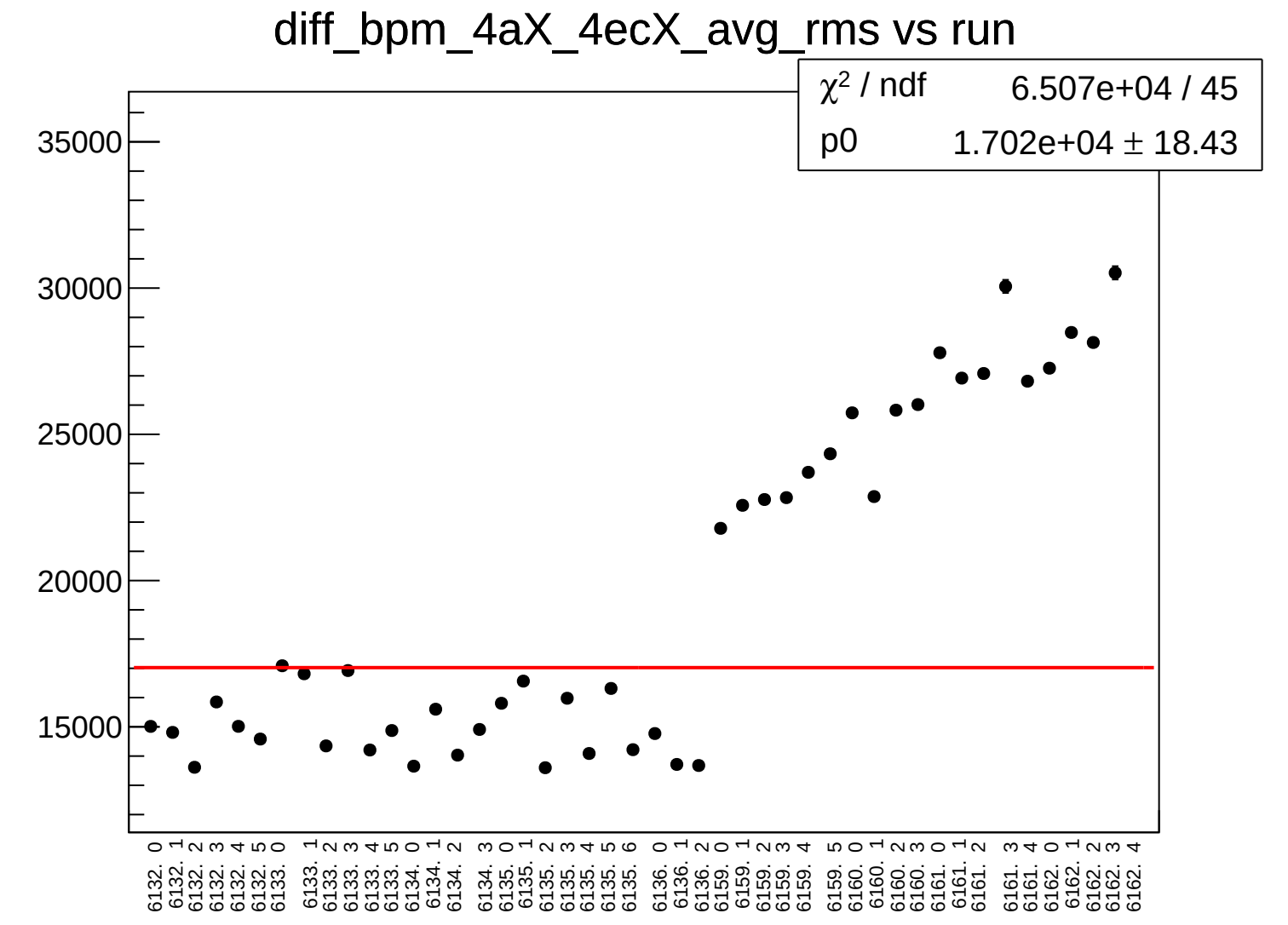

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 54.47 / 45
p0 −1.478 ± 2.551
pull
Entries 46
Mean 82.23
Std Dev 0

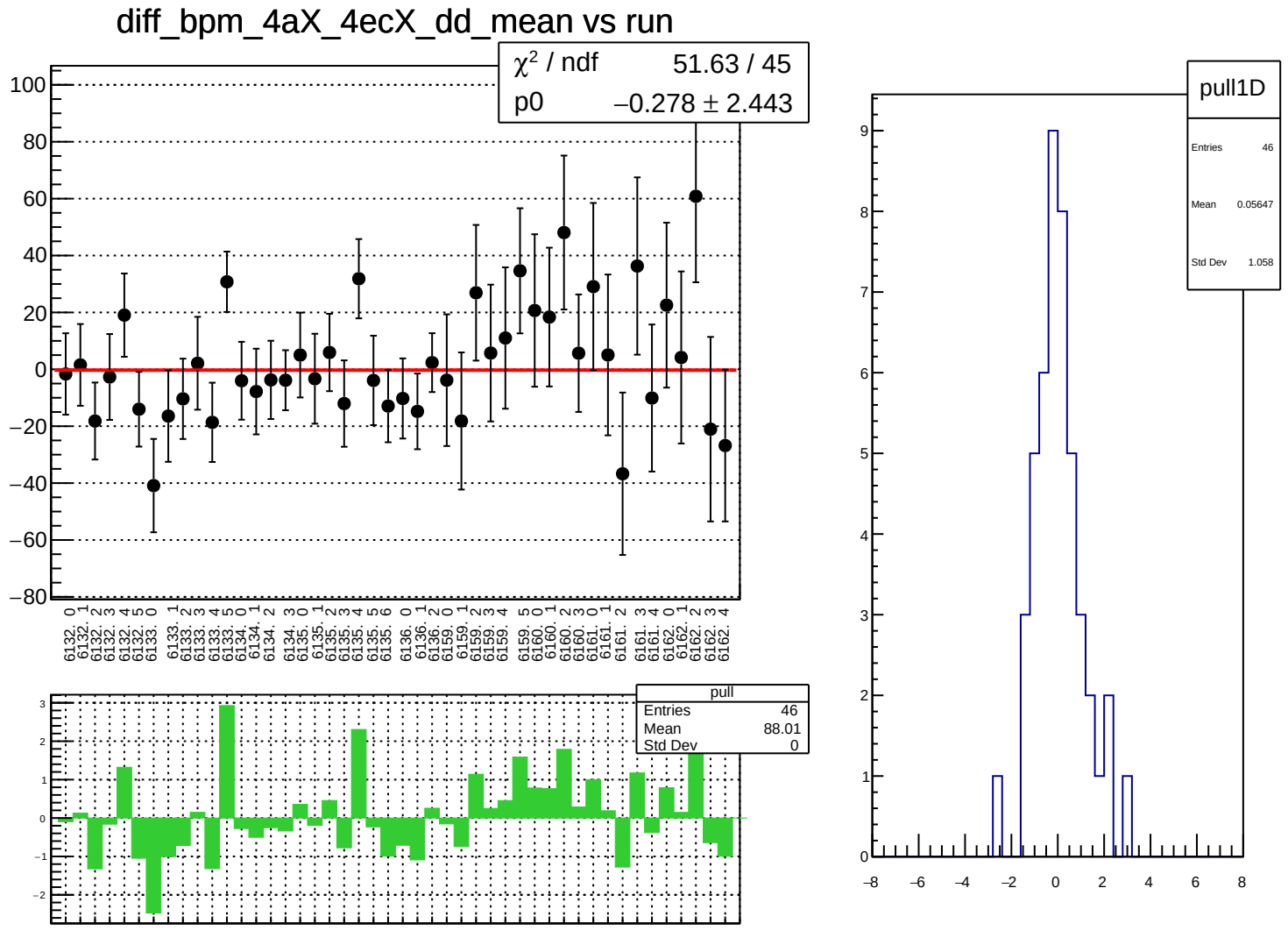

pull1D
Entries 46
Mean 0.06948
Std Dev 1.086

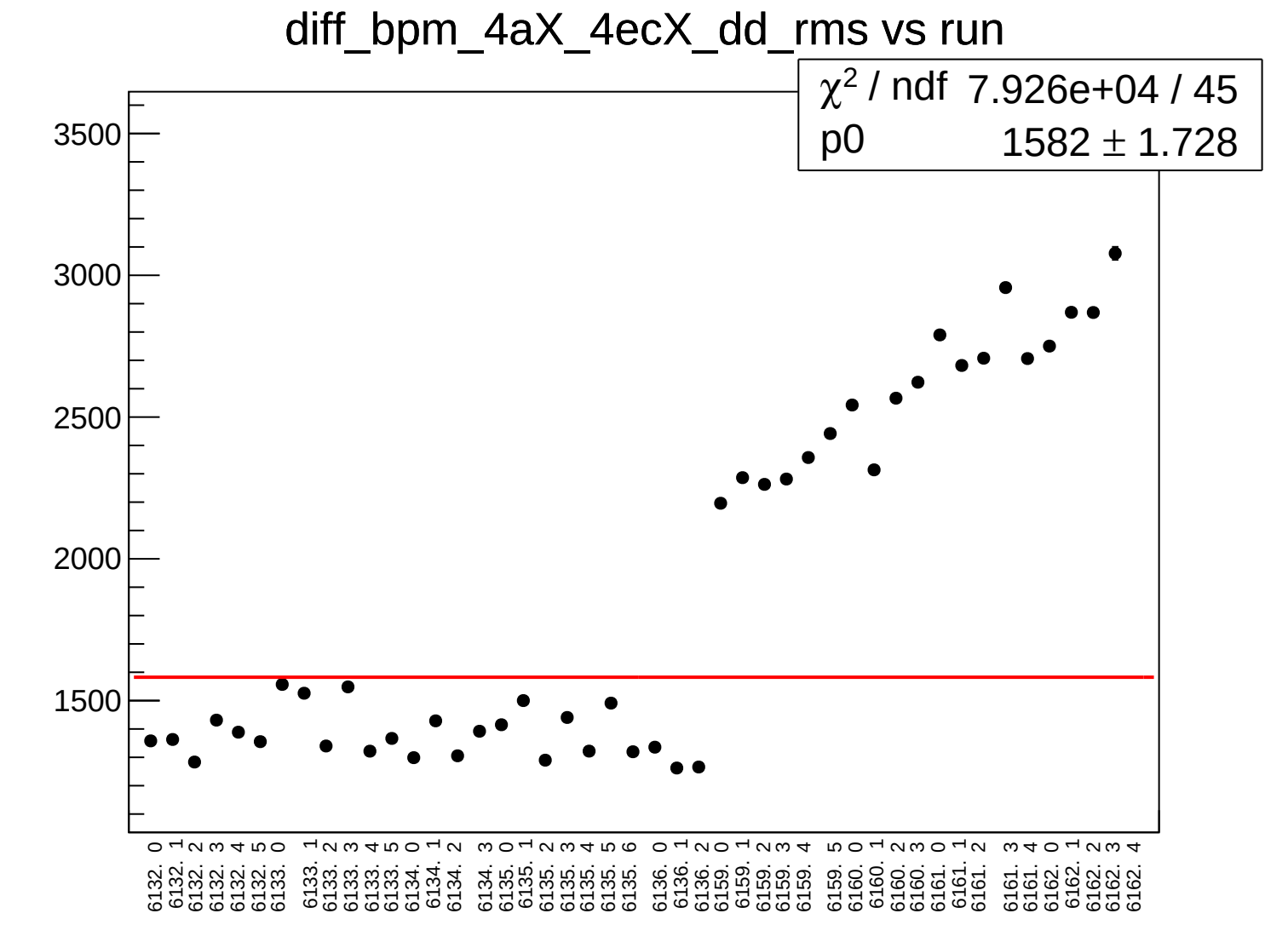

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 7.954e+04 / 45
p0 1652 ± 1.804
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

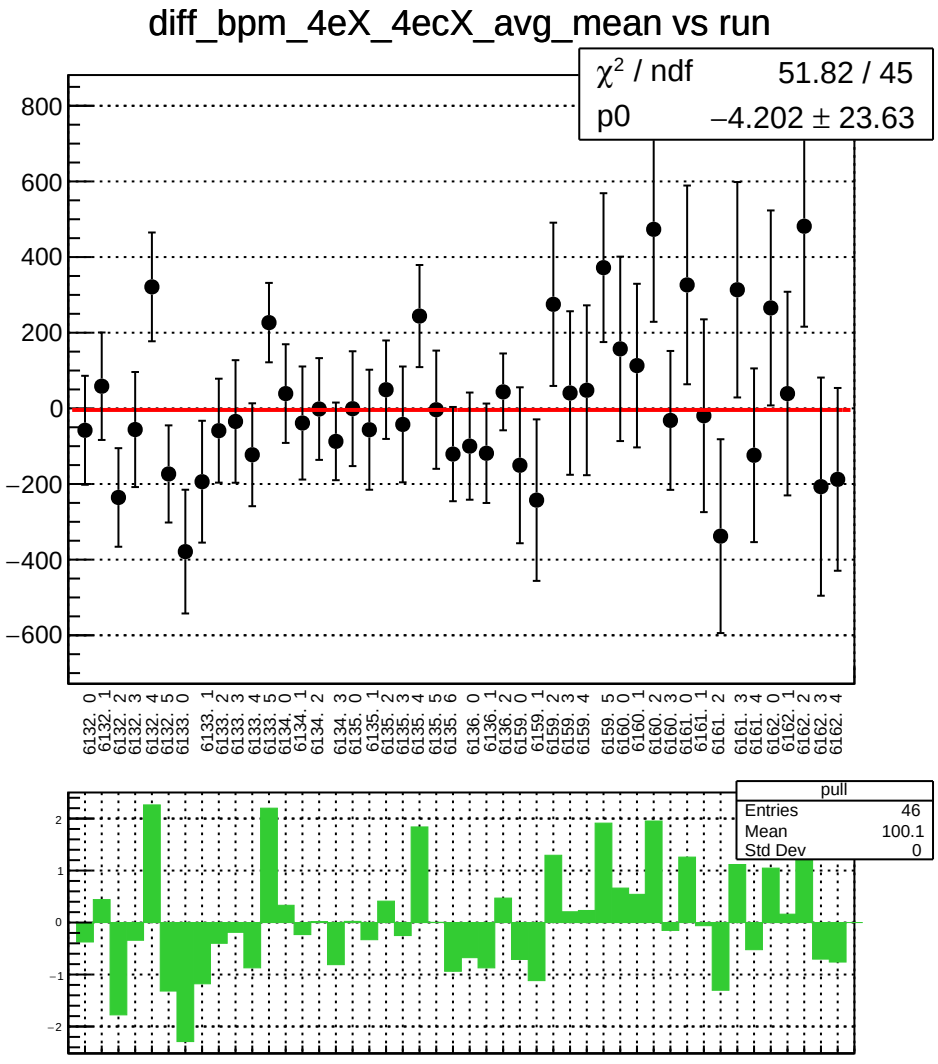

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 52.13 / 45
p0 −5.651± 26.07
pull
Entries 46
Mean 97.66
Std Dev 0

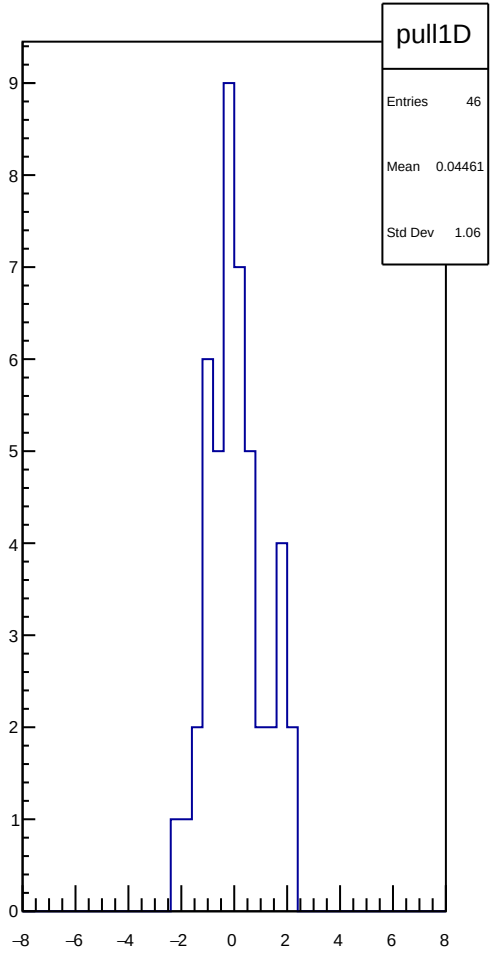

pull1D
Entries 46
Mean 0.04719
Std Dev 1.063

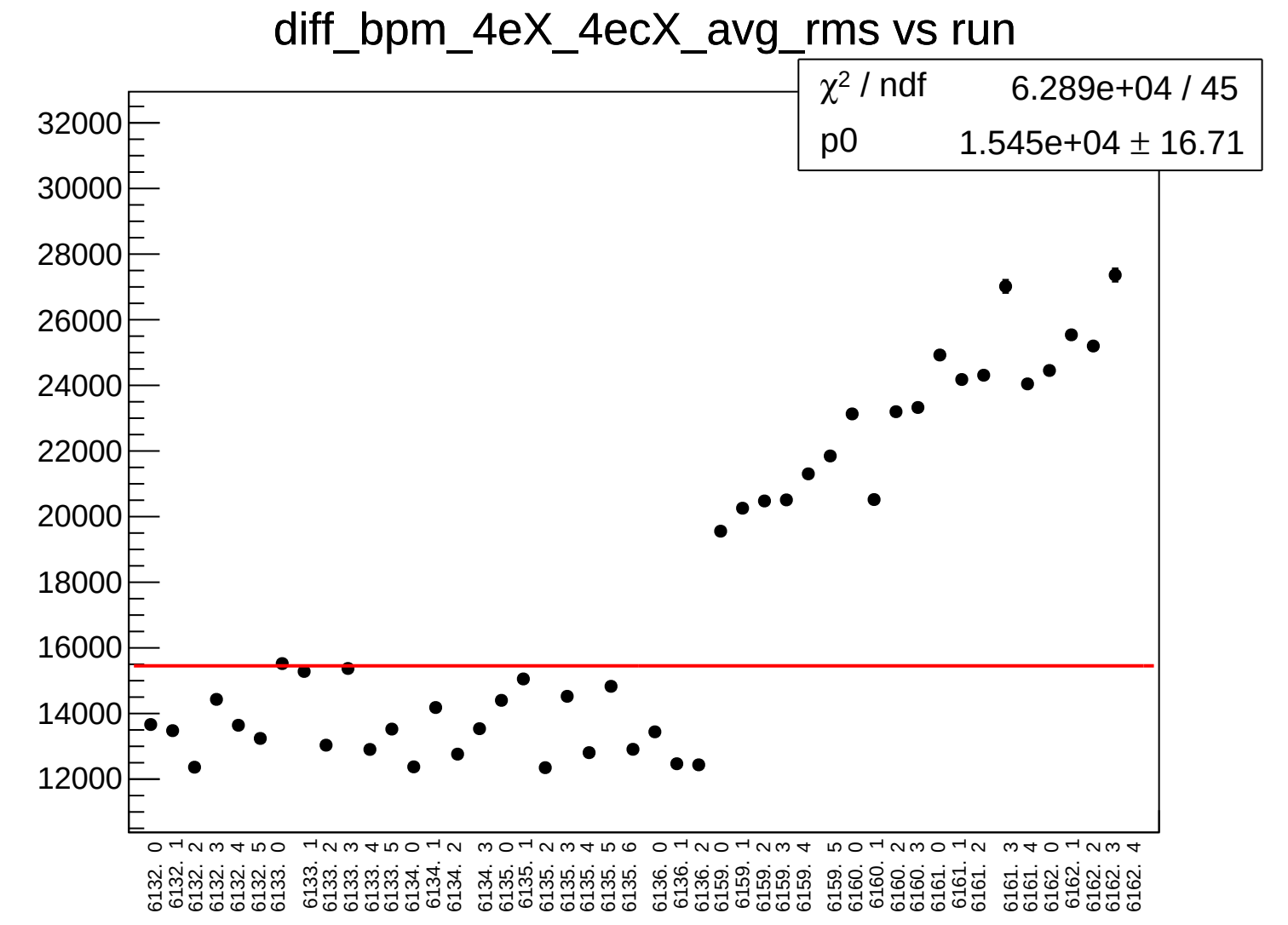

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 6.507e+04 / 45
p0 1.702e+04 ± 18.43
35000
30000
25000
20000
15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

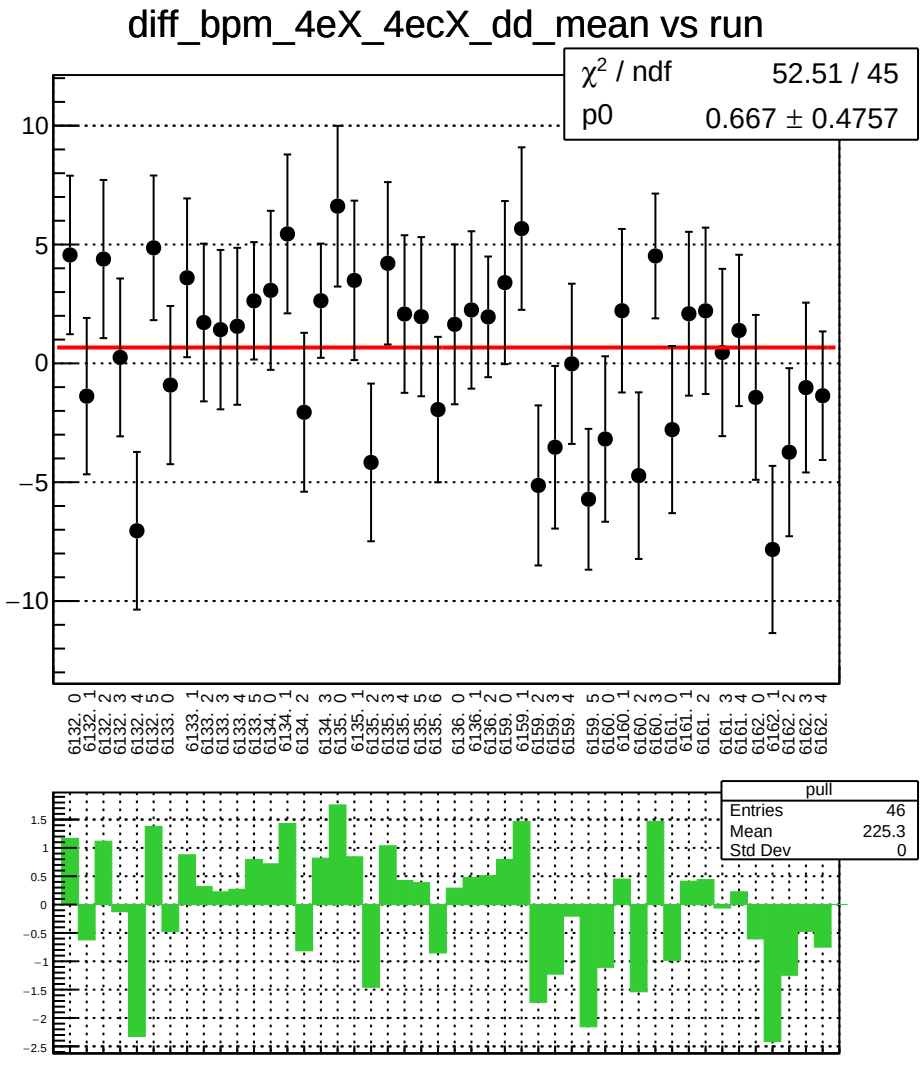

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 51.63 / 45
p0 −0.278 ± 2.443
pull
Entries 46
Mean 88.01
Std Dev 0
pull1D
Entries 46
Mean 0.05647
Std Dev 1.058

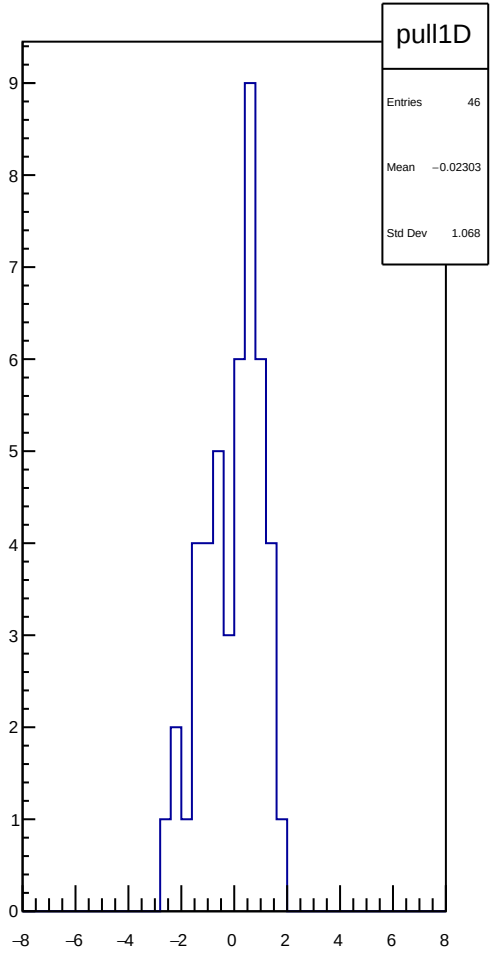

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 7.926e+04 / 45
p0 1582 ± 1.728
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

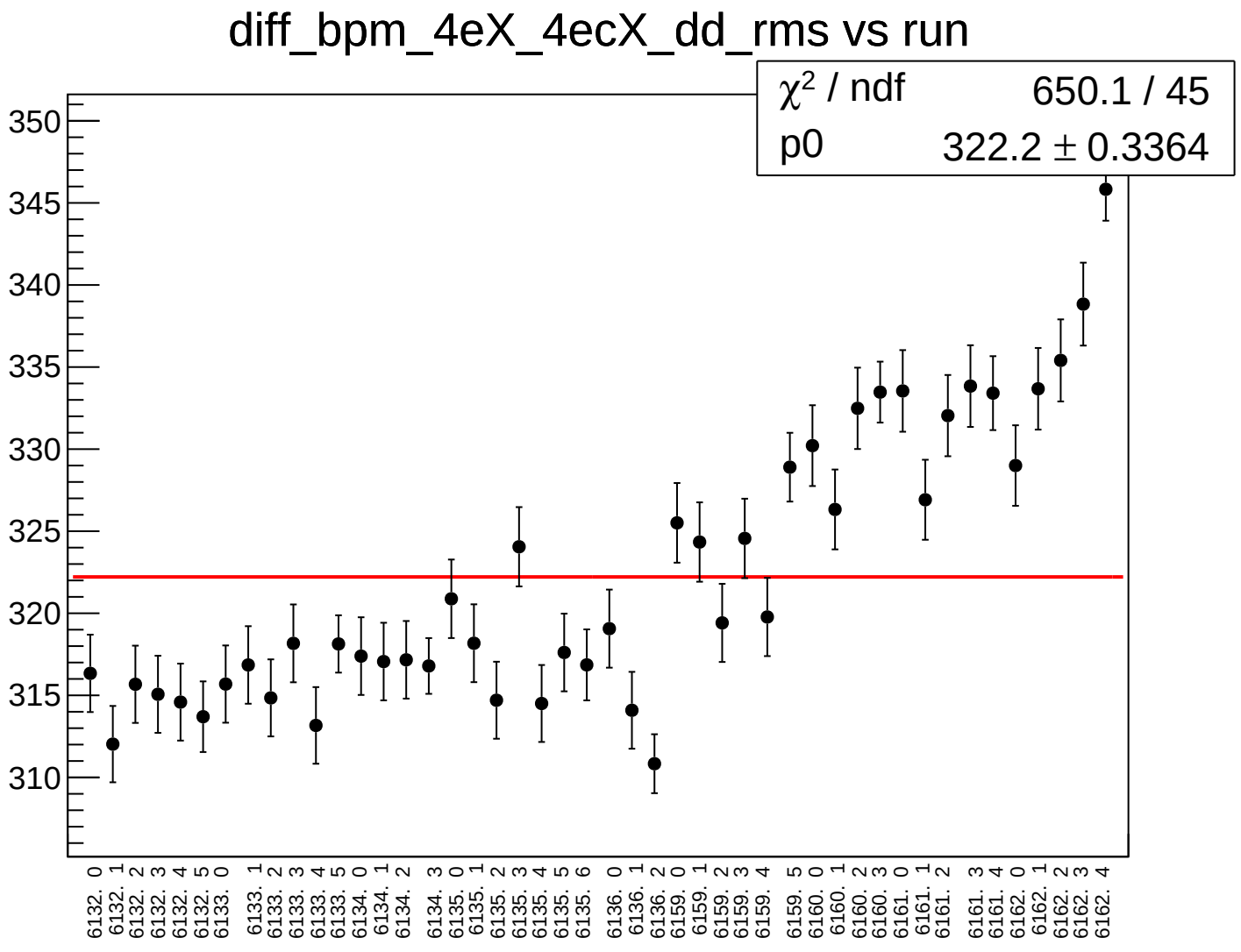

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 51.82 / 45
p0 −4.202 ± 23.63
pull
Entries 46
Mean 100.1
Std Dev 0

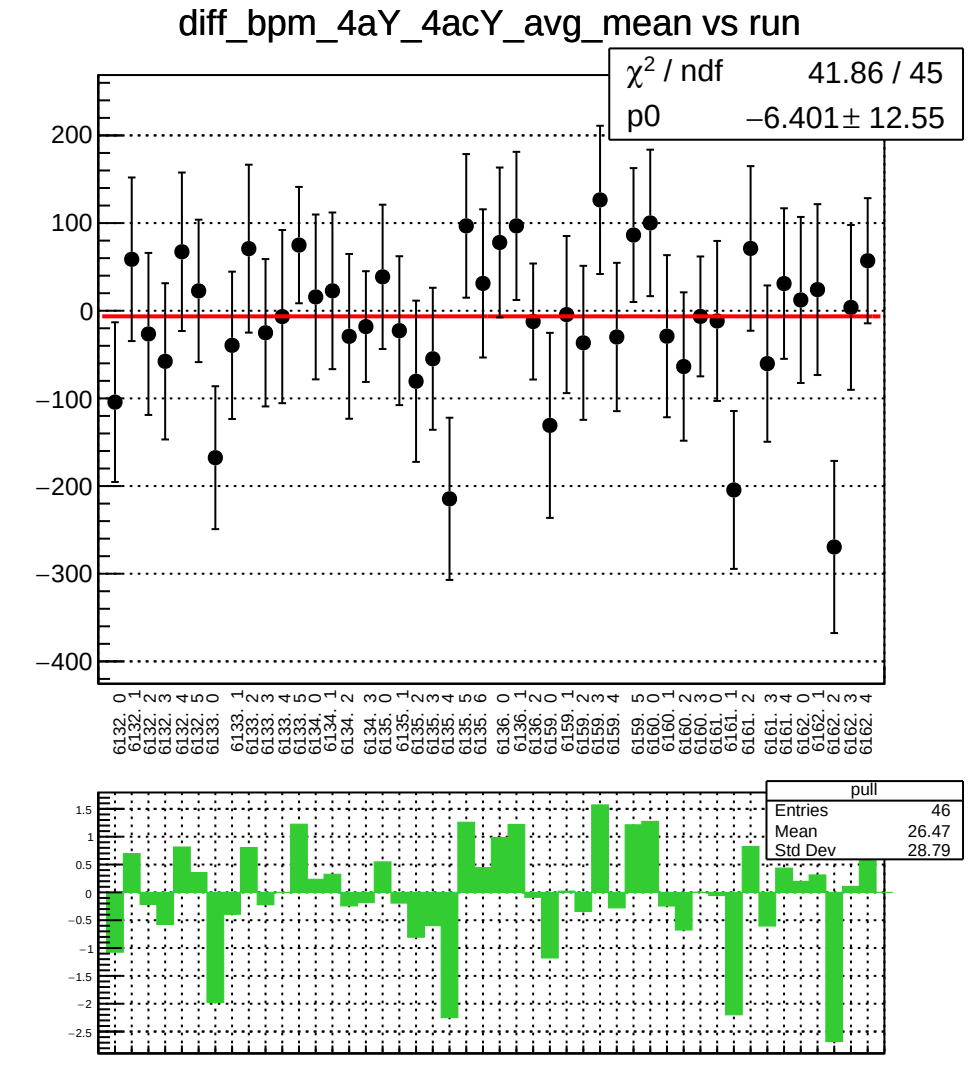

pull1D
Entries 46
Mean 0.04461
Std Dev 1.06

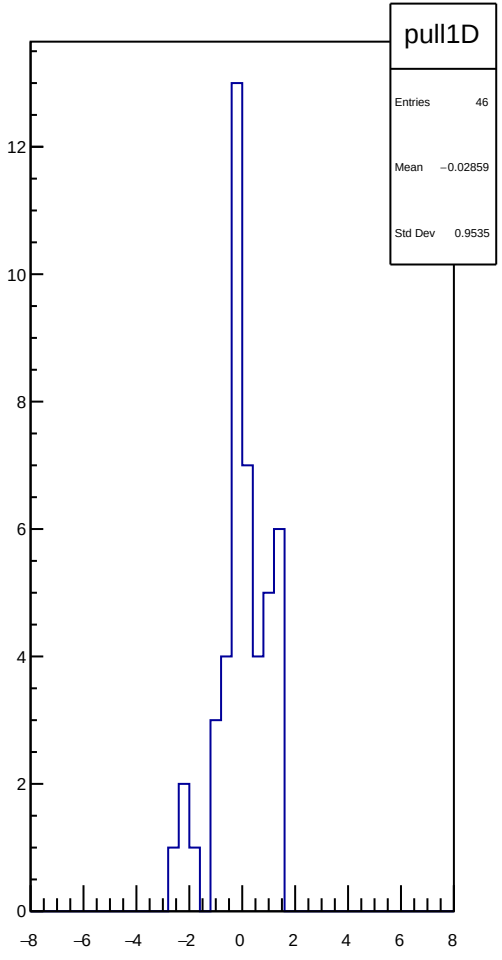

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 6.289e+04 / 45
p0 1.545e+04 ± 16.71
32000
30000
28000
26000
24000
22000
20000
18000
16000
14000
12000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

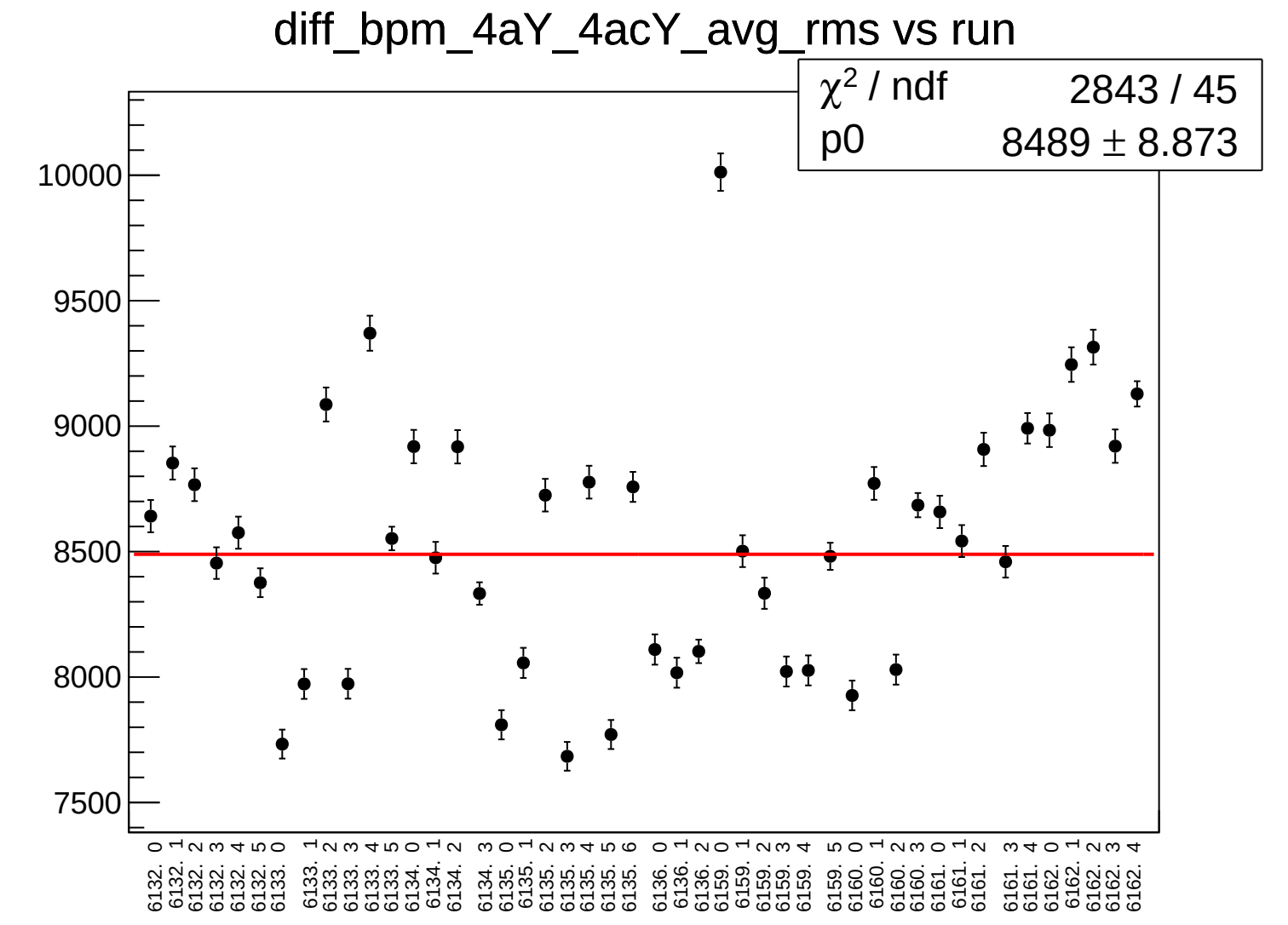

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 52.51 / 45
p0 0.667 ± 0.4757
pull
Entries 46
Mean 225.3
Std Dev 0

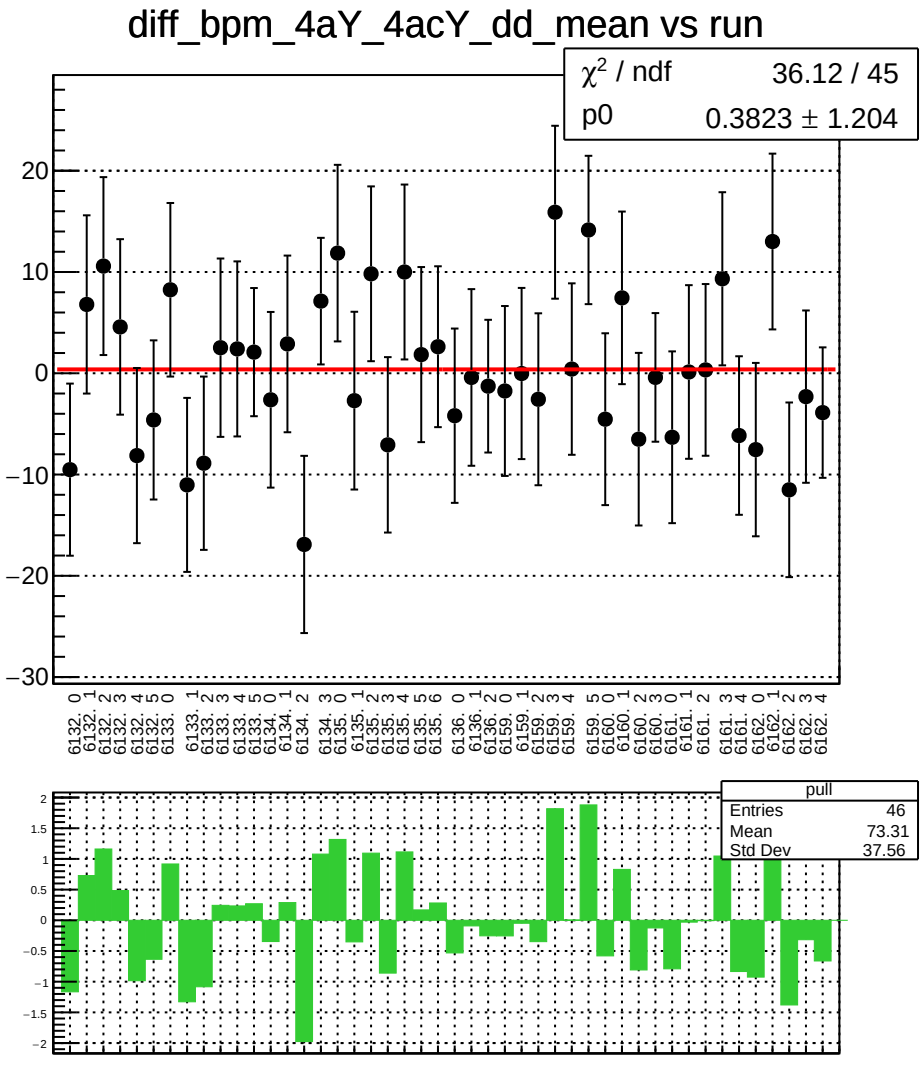

pull1D
Entries 46
Mean −0.02303
Std Dev 1.068

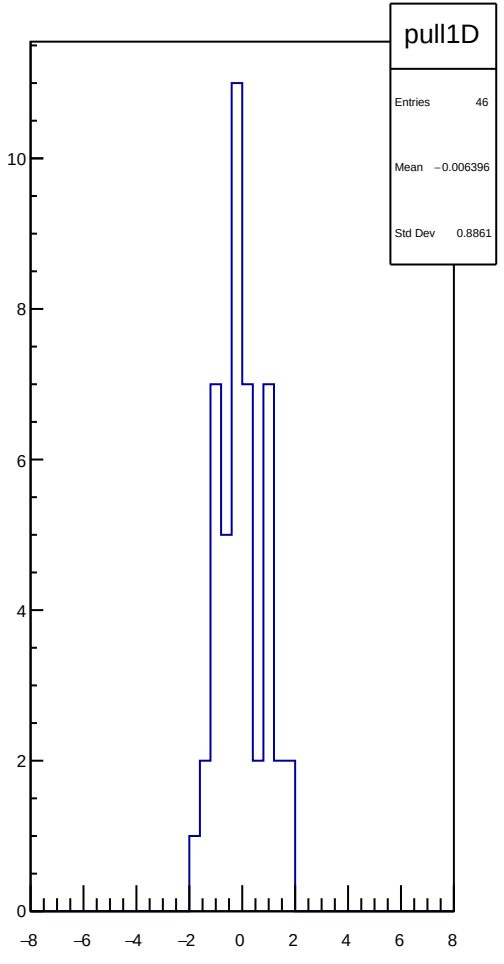

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 650.1 / 45
p0 322.2 ± 0.3364
350
345
340
335
330
325
320
315
310
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

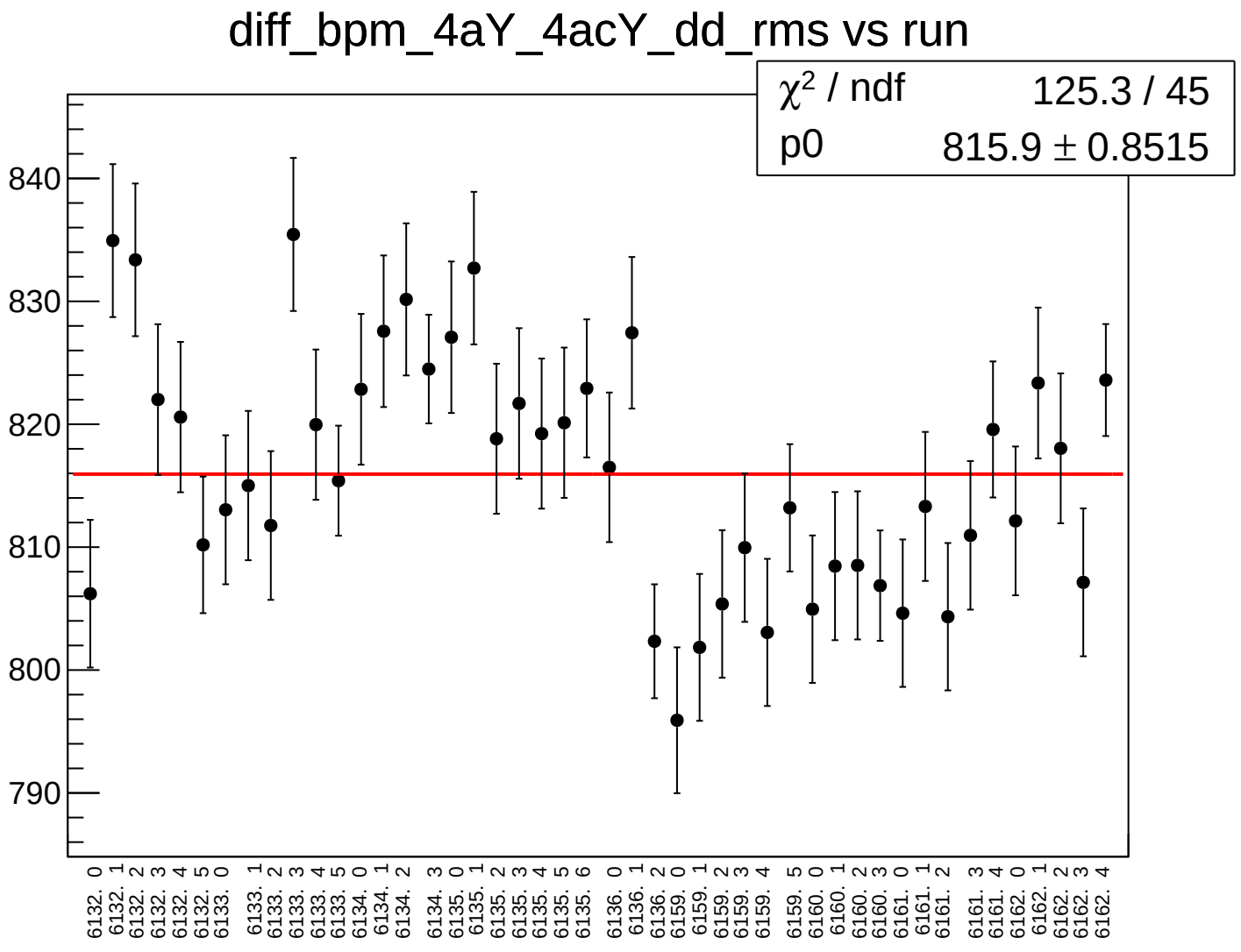

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 41.86 / 45
p0 −6.401 ± 12.55
200
100
0
−100
−200
−300
−400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 26.47
Std Dev 28.79
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

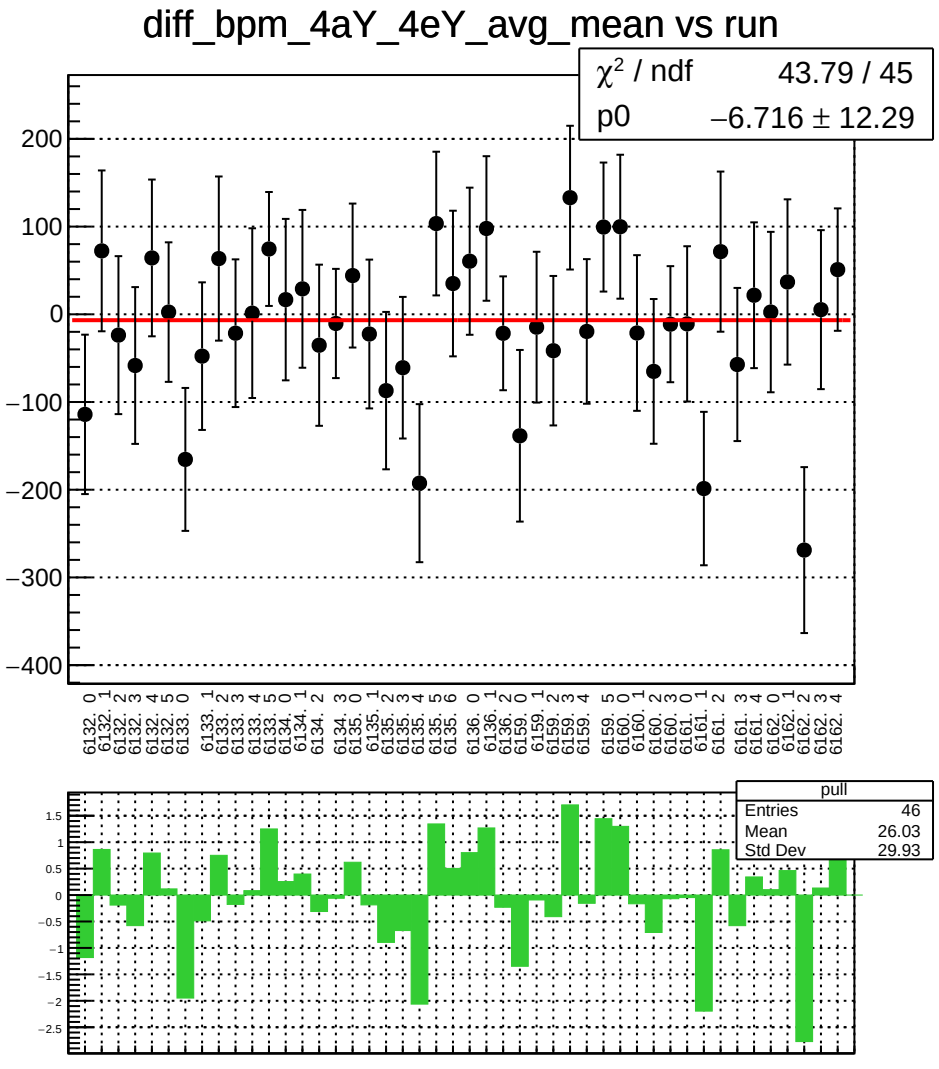

pull1D
Entries 46
Mean −0.02859
Std Dev 0.9535
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

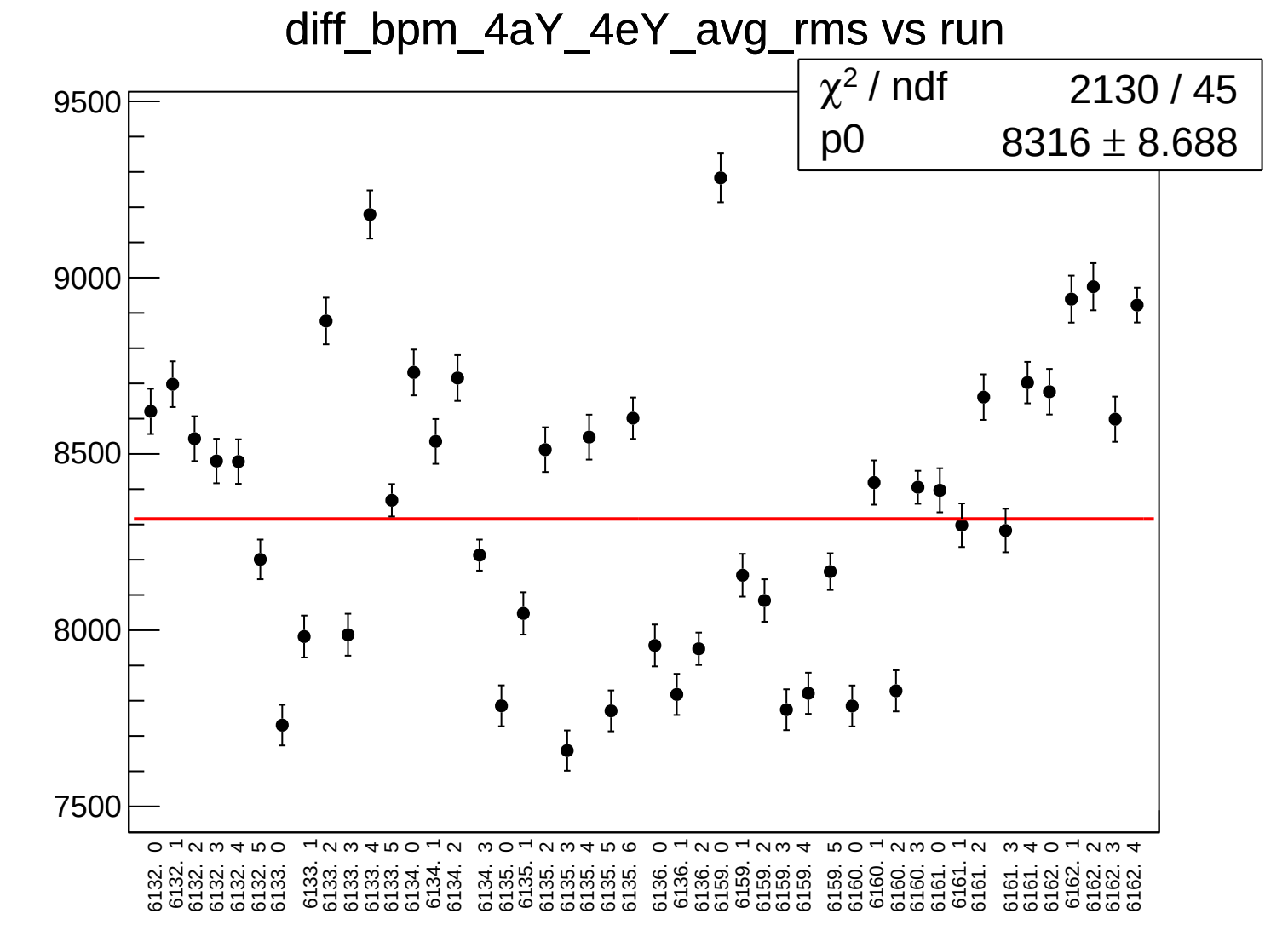

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 2843 / 45
p0 8489 ± 8.873
10000
9500
9000
8500
8000
7500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

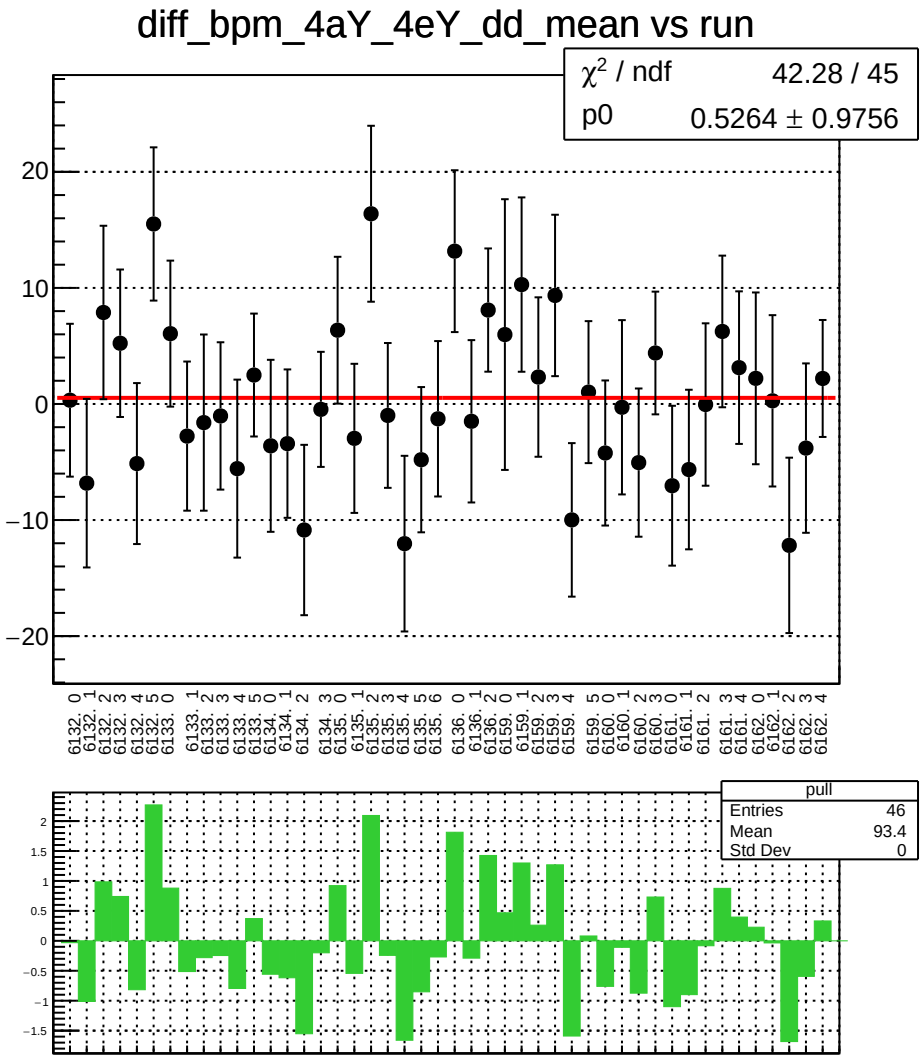

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 36.12 / 45
p0 0.3823 ± 1.204
pull
Entries 46
Mean 73.31
Std Dev 37.56

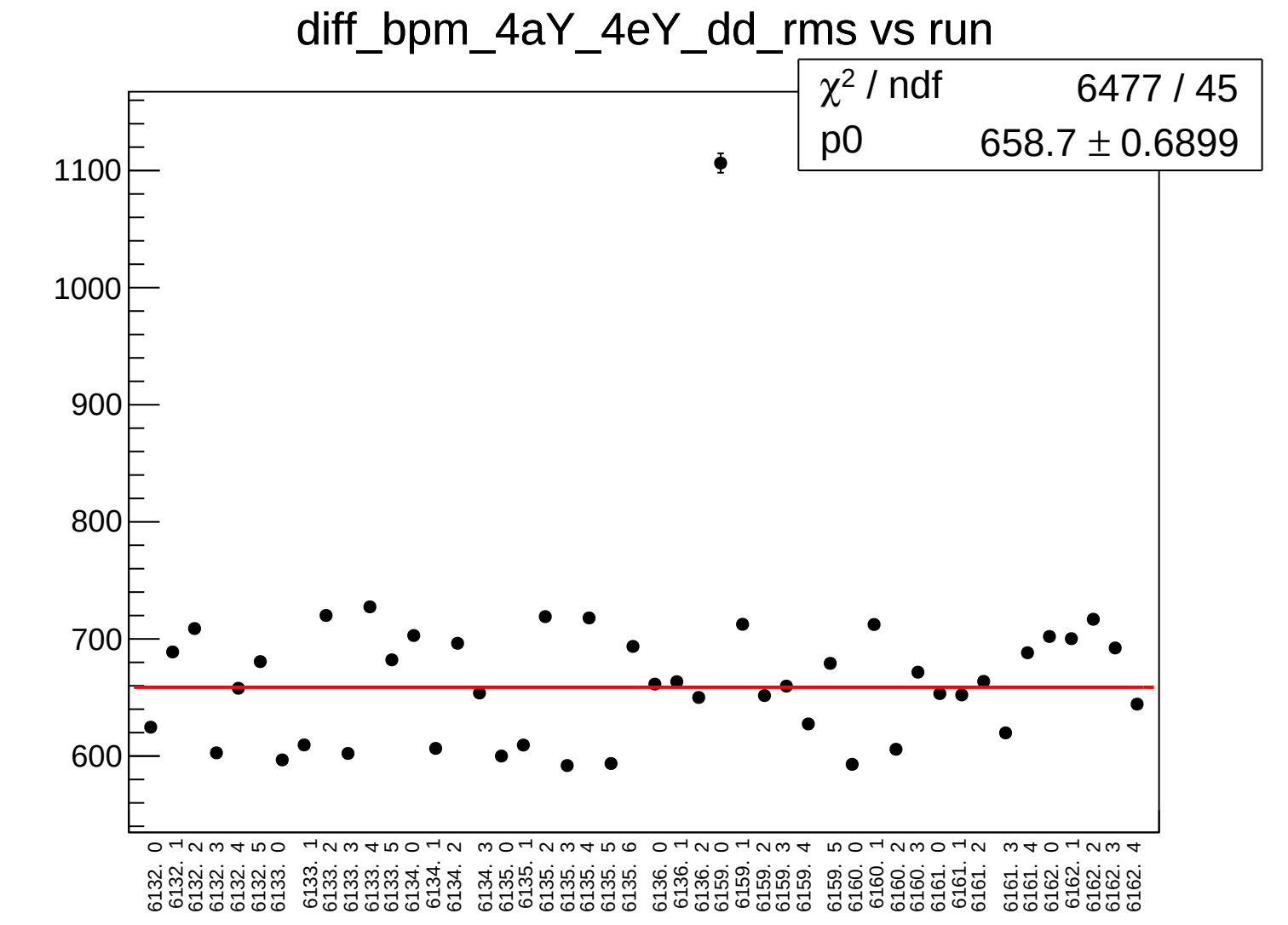

pull1D
Entries 46
Mean −0.006396
Std Dev 0.8861

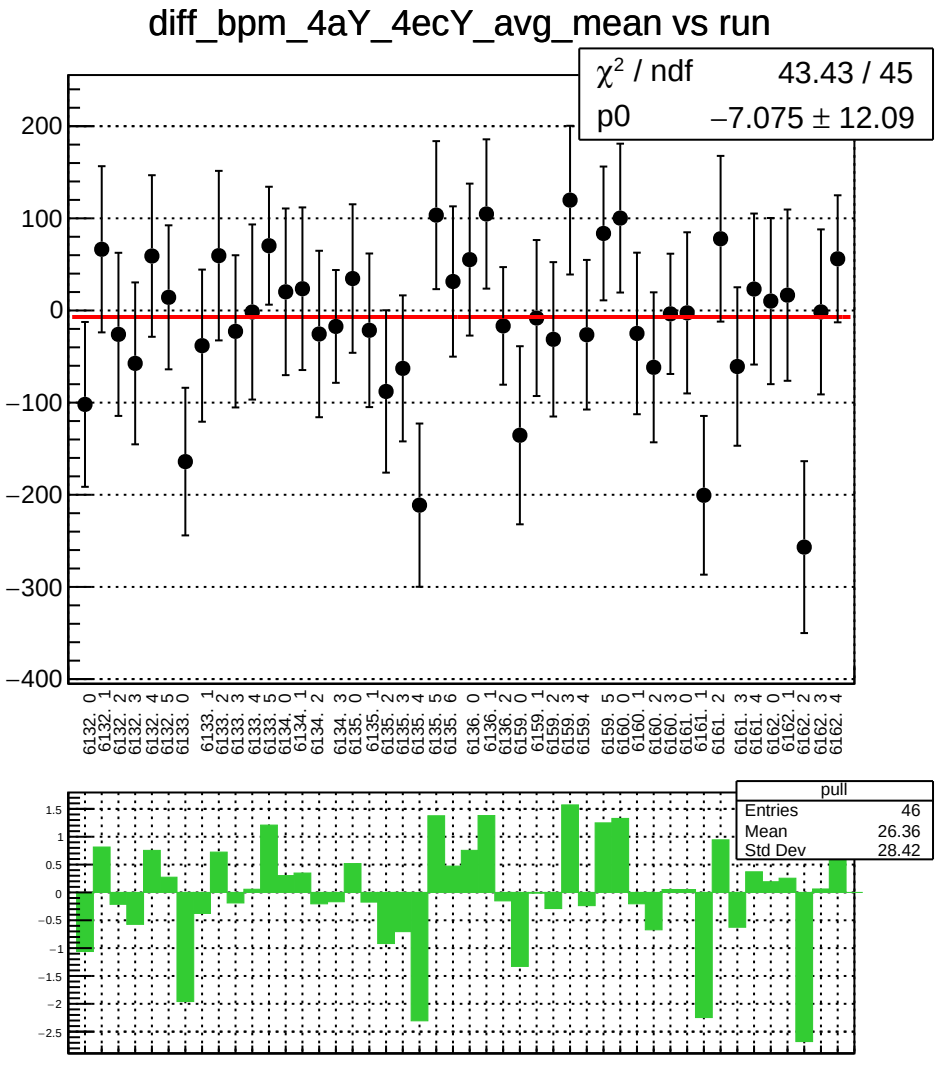

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 125.3 / 45
p0 815.9 ± 0.8515
840
830
820
810
800
790
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

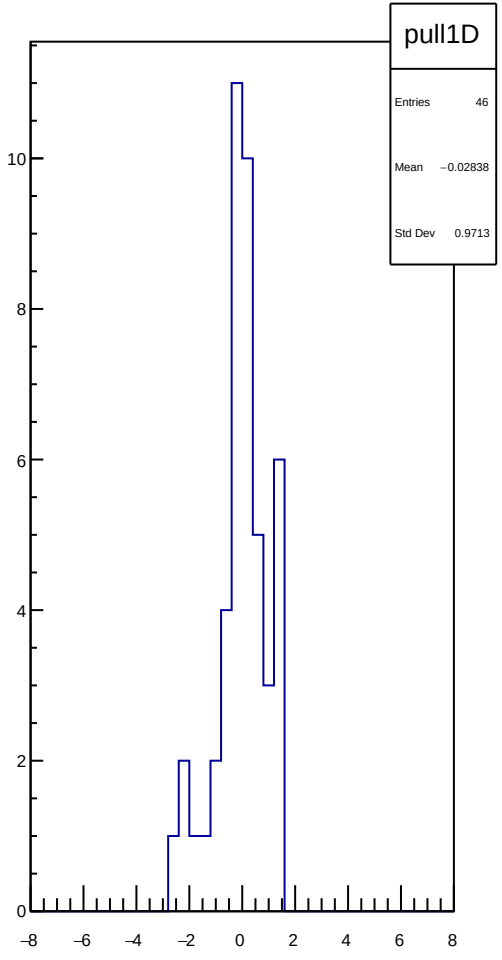

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 43.79 / 45
p0 −6.716 ± 12.29
200
100
0
−100
−200
−300
−400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 26.03
Std Dev 29.93
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.02811
Std Dev 0.9753
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

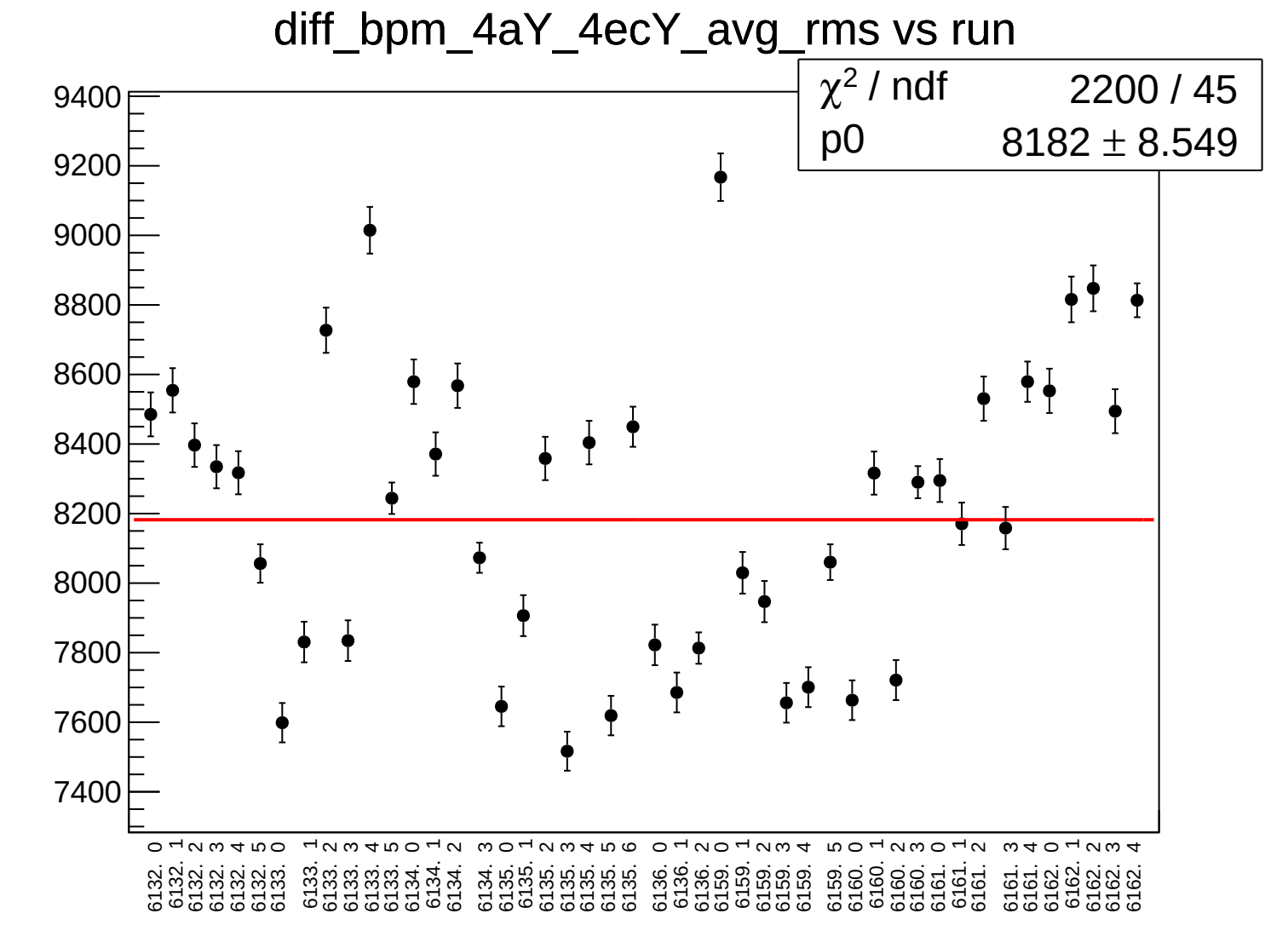

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 2130 / 45
p0 8316 ± 8.688
9500
9000
8500
8000
7500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

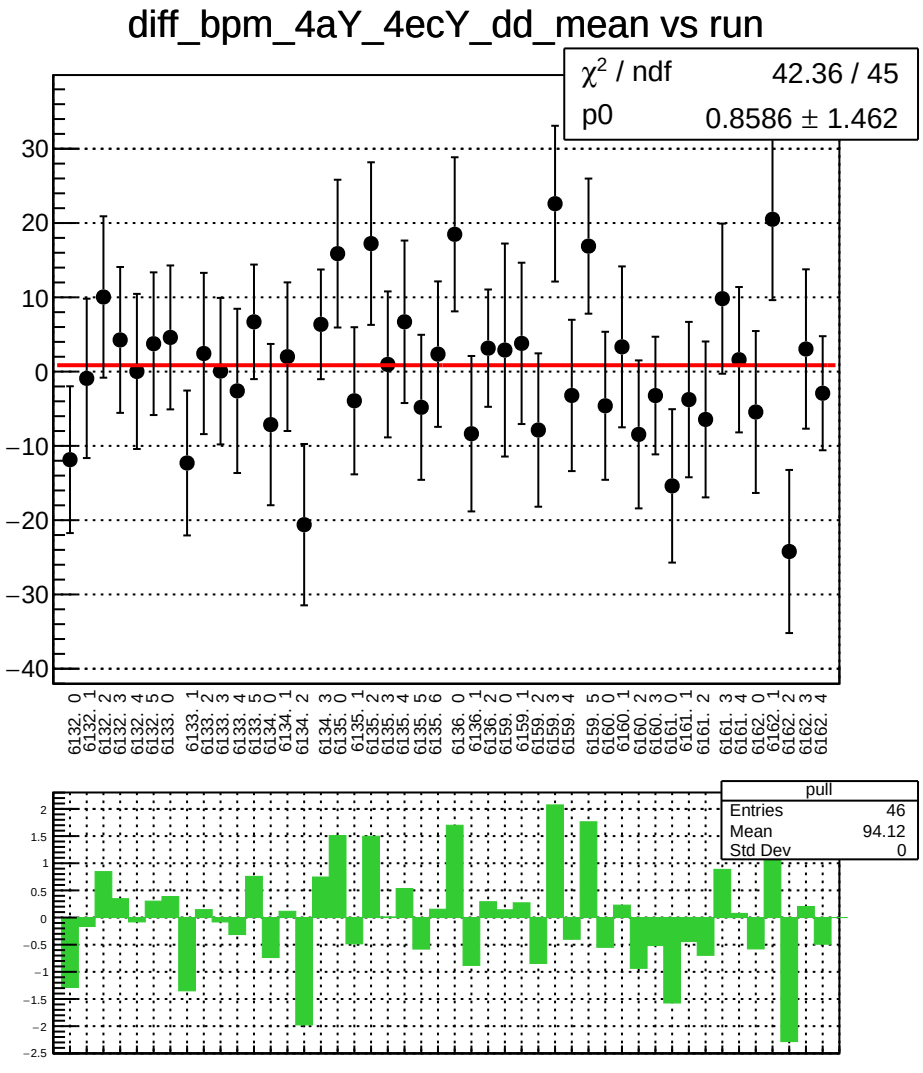

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 42.28 / 45
p0 0.5264 ± 0.9756
pull
Entries 46
Mean 93.4
Std Dev 0
pull1D
Entries 46
Mean −0.01643
Std Dev 0.9585

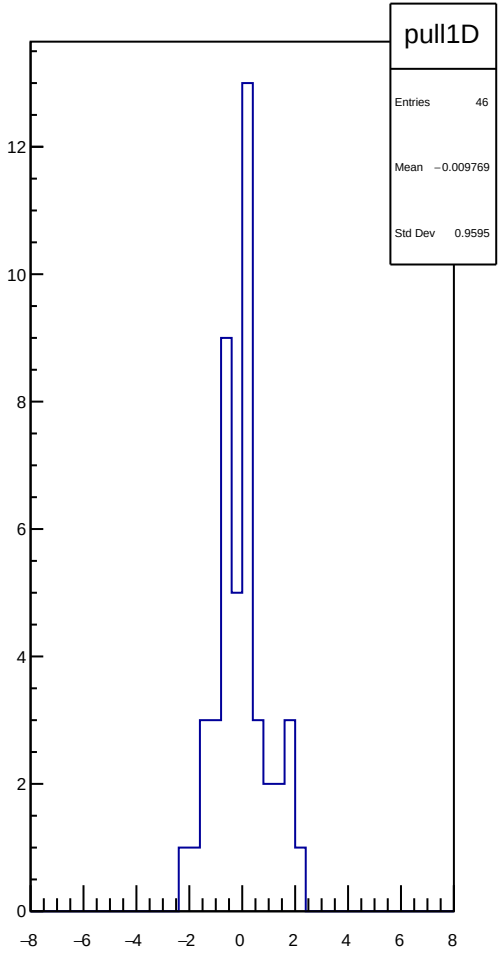

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 6477 / 45
p0 658.7 ± 0.6899
1100
1000
900
800
700
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

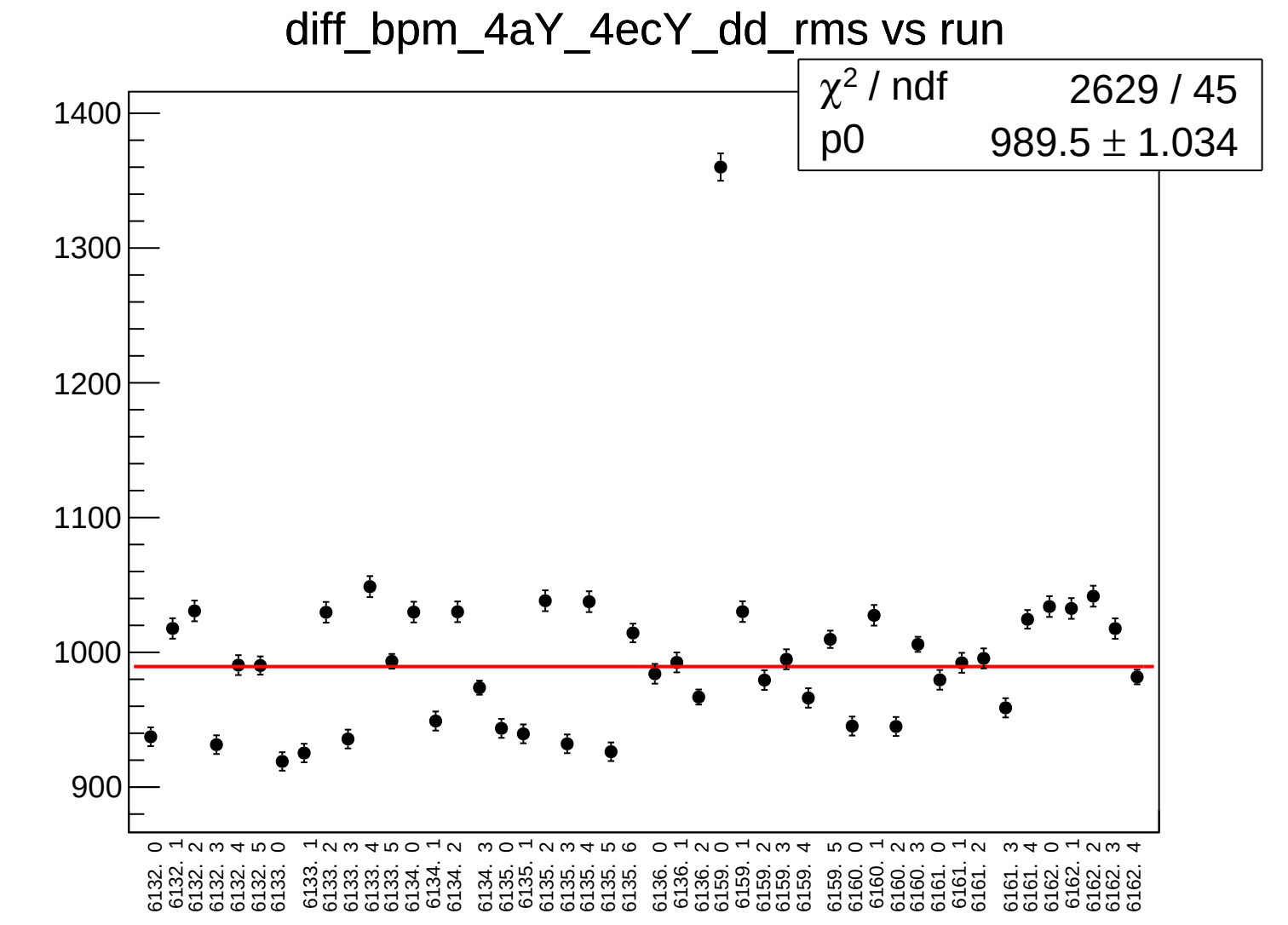

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 43.43 / 45
p0 −7.075 ± 12.09
200
100
0
−100
−200
−300
−400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 26.36
Std Dev 28.42
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

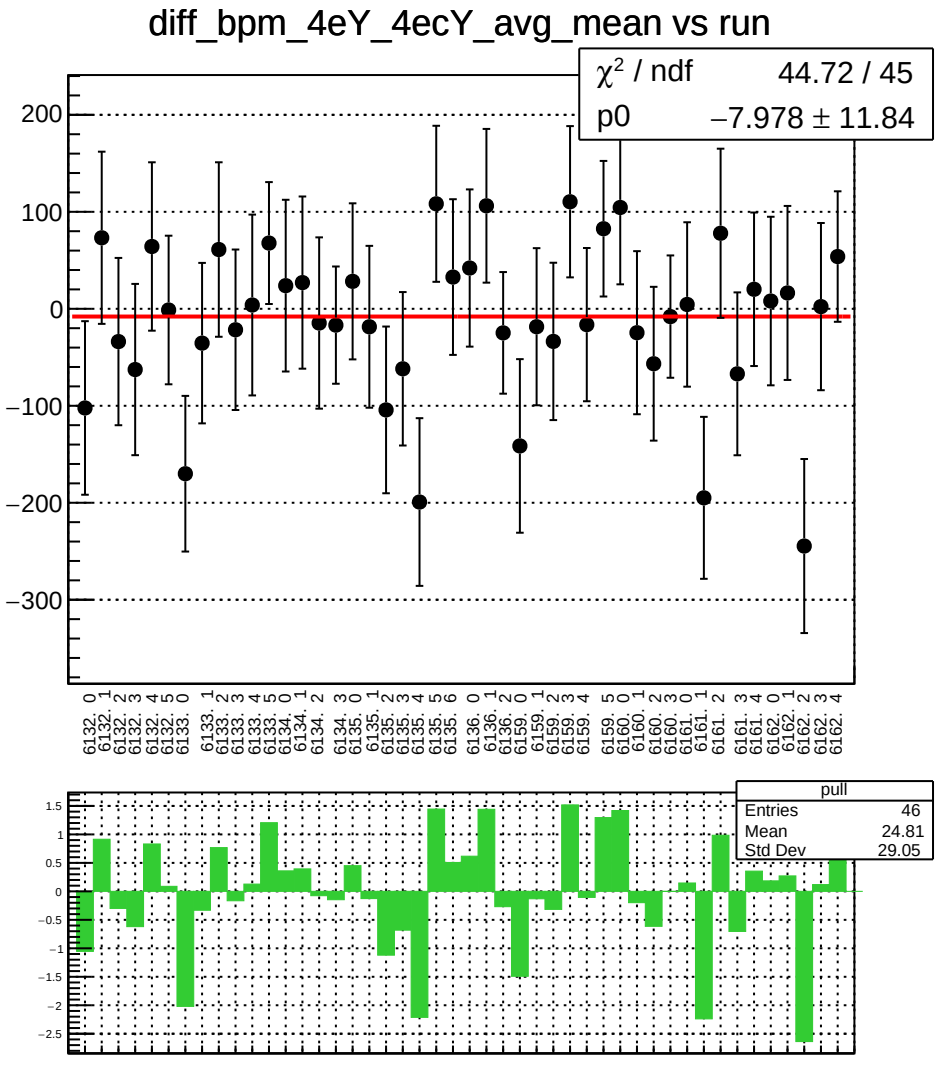

pull1D
Entries 46
Mean −0.02838
Std Dev 0.9713
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

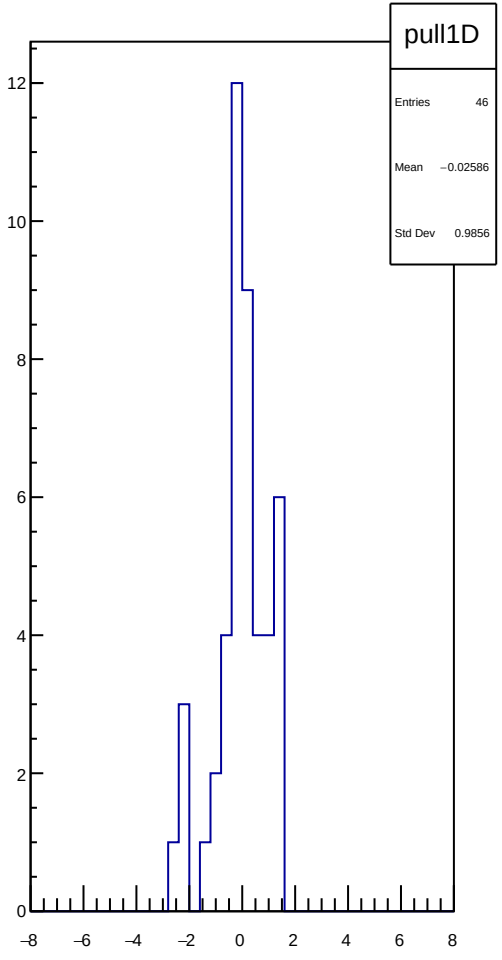

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 2200 / 45
p0 8182 ± 8.549
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

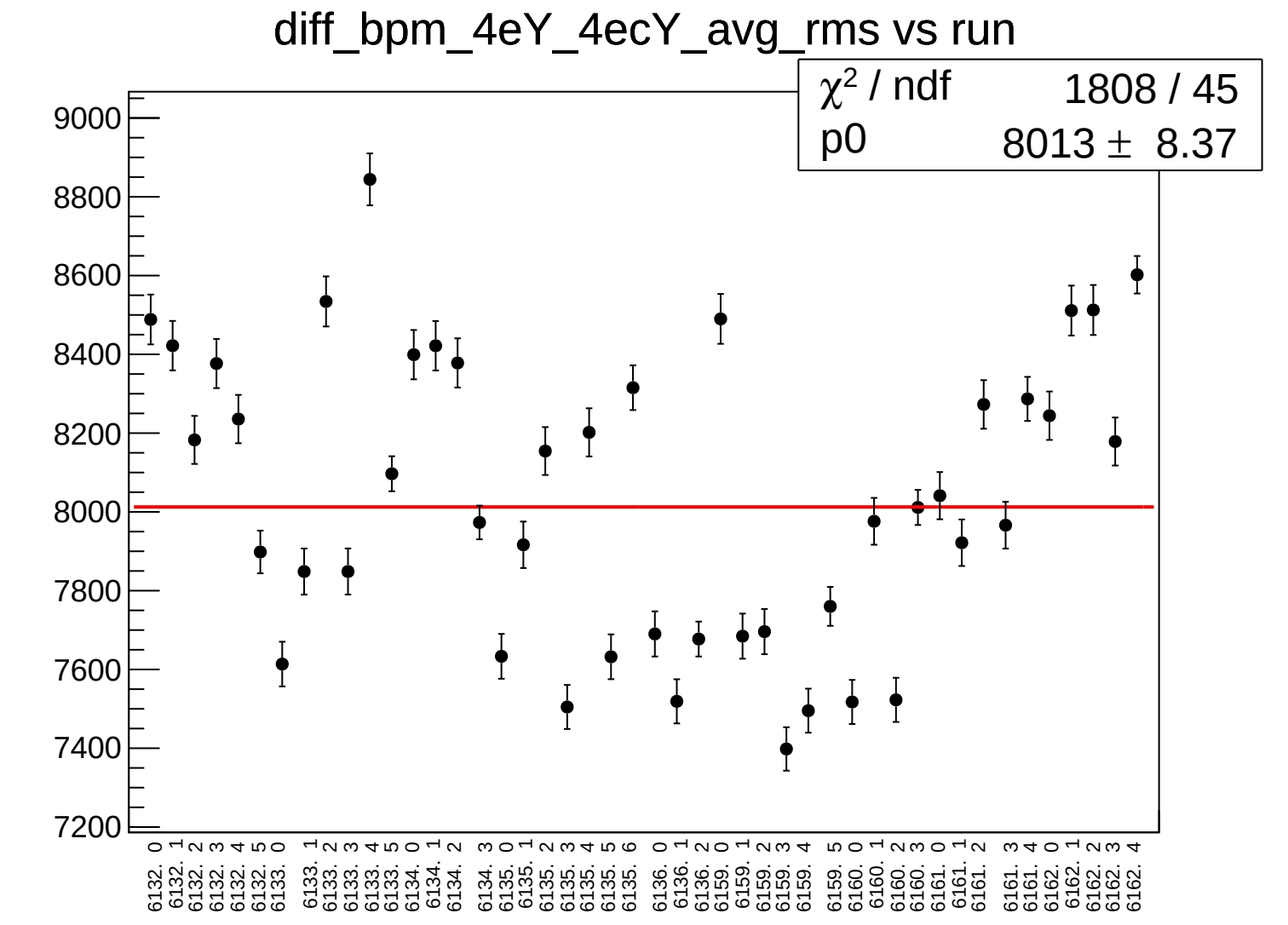

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 42.36 / 45
p0 0.8586 ± 1.462
pull
Entries 46
Mean 94.12
Std Dev 0

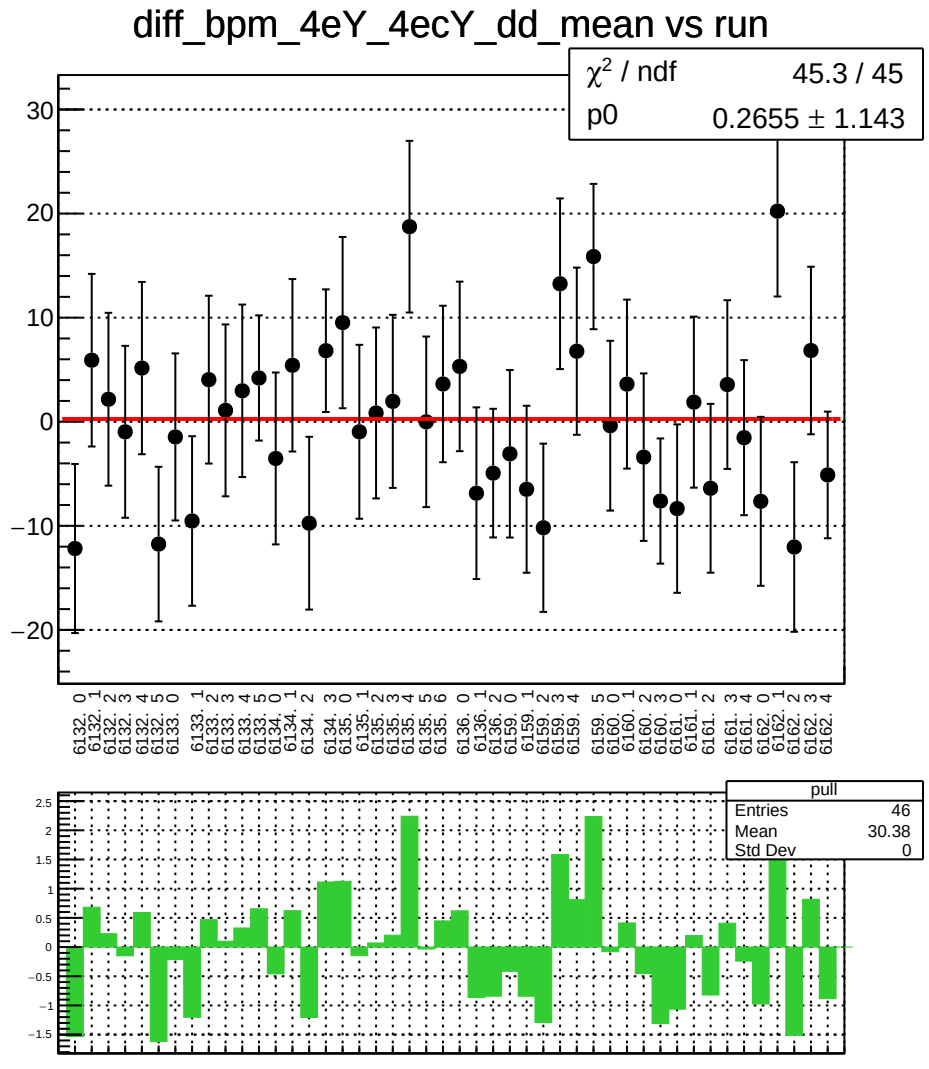

pull1D
Entries 46
Mean −0.009769
Std Dev 0.9595

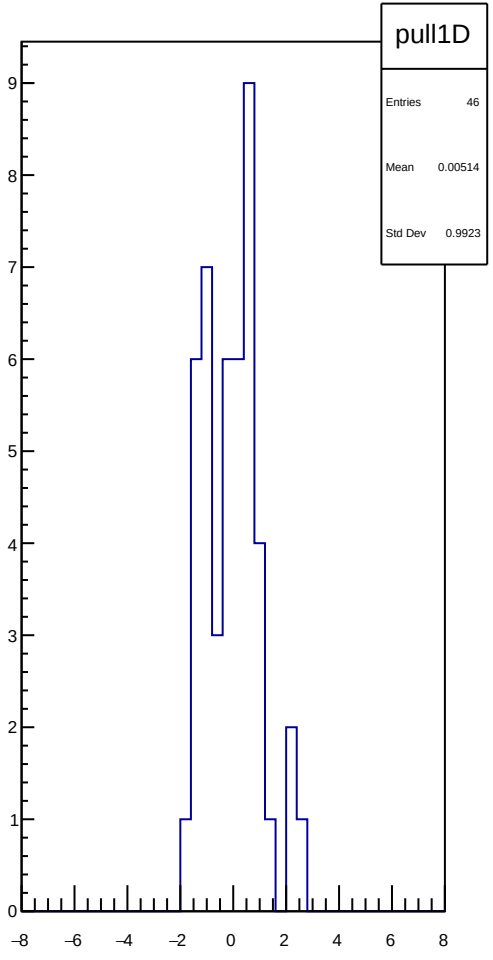

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 2629 / 45
p0 989.5 ± 1.034
1400
1300
1200
1100
1000
900
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

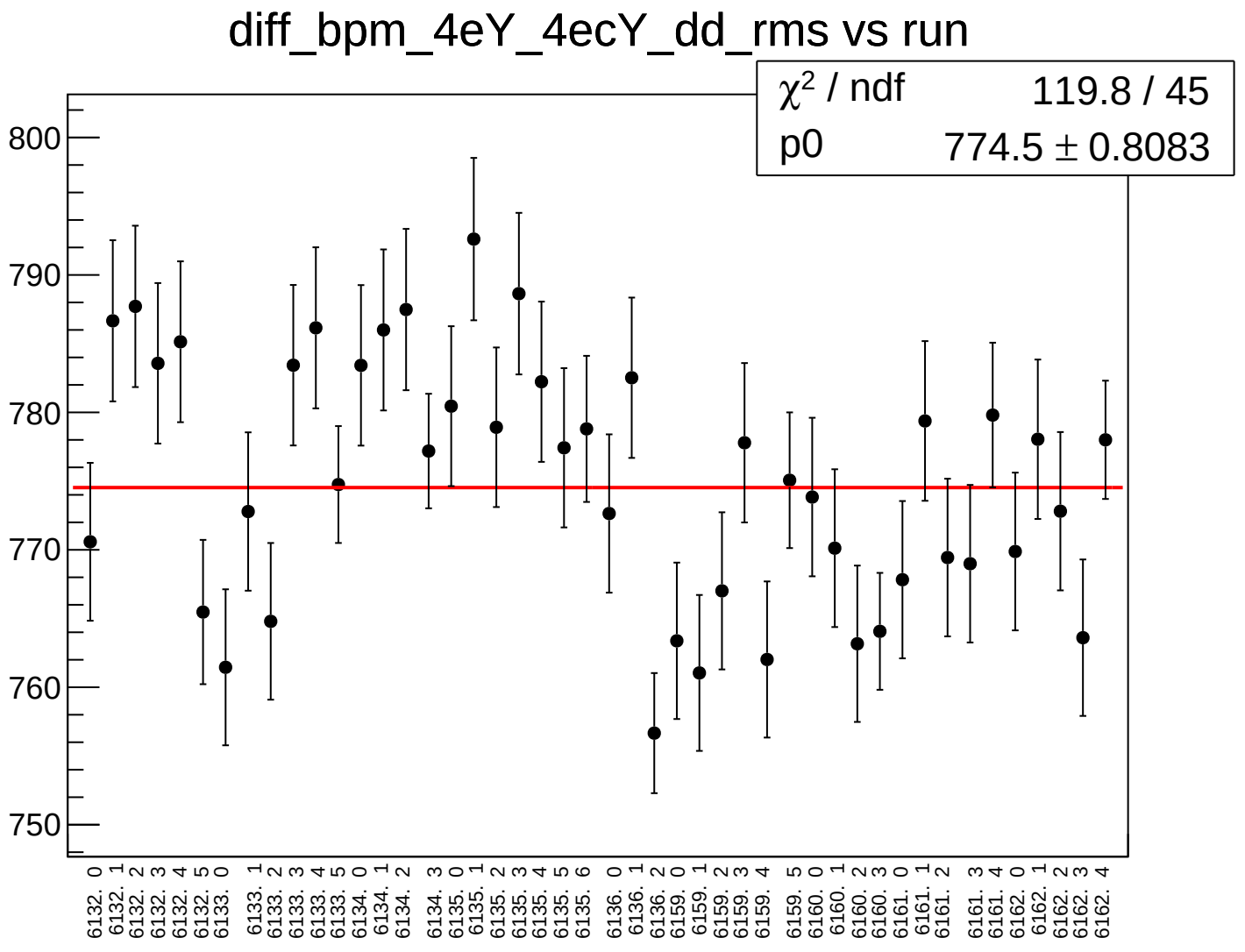

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 44.72 / 45
p0 −7.978 ± 11.84
200
100
0
−100
−200
−300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 24.81
Std Dev 29.05
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

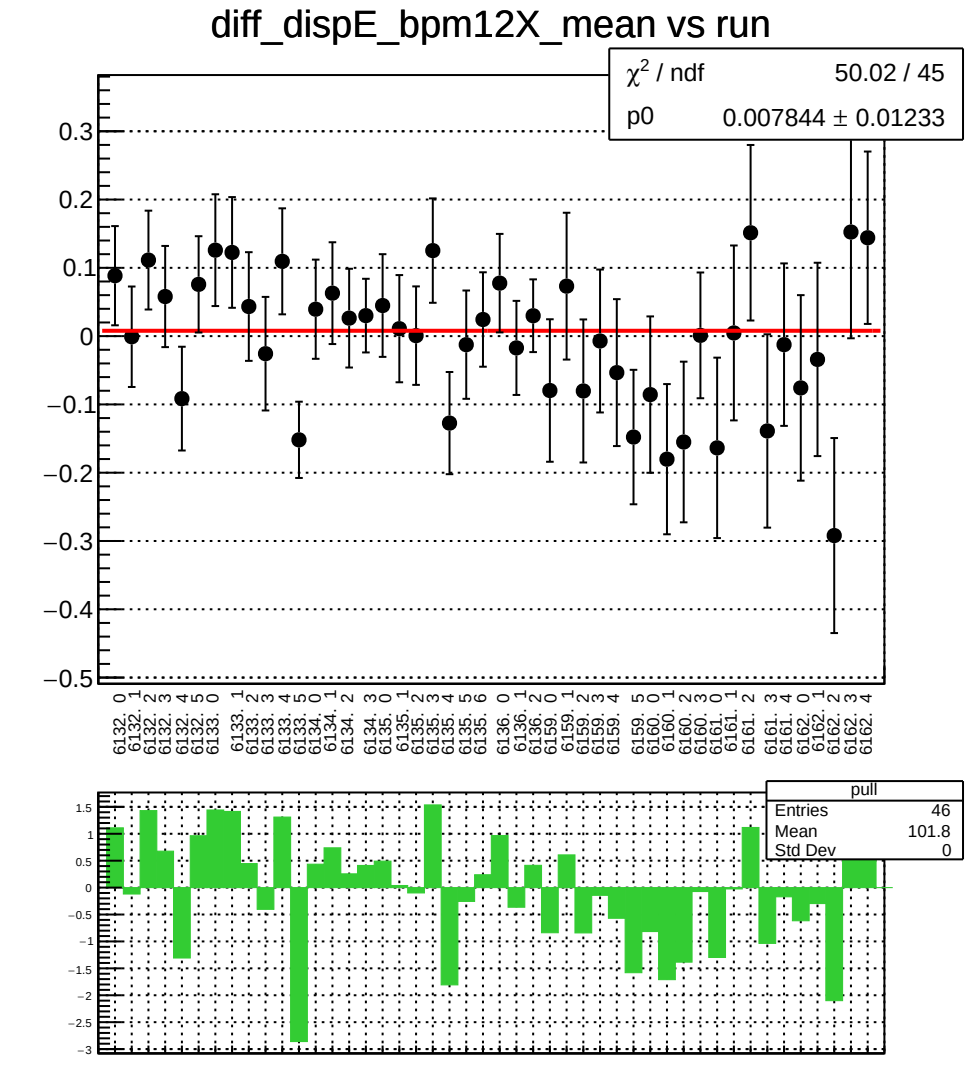

pull1D
Entries 46
Mean −0.02586
Std Dev 0.9856
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

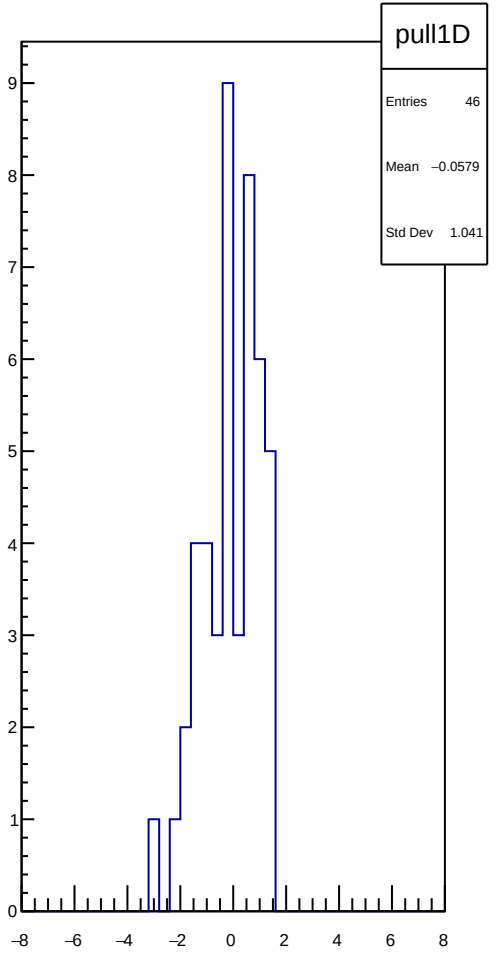

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 1808 / 45
p0 8013 ± 8.37
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

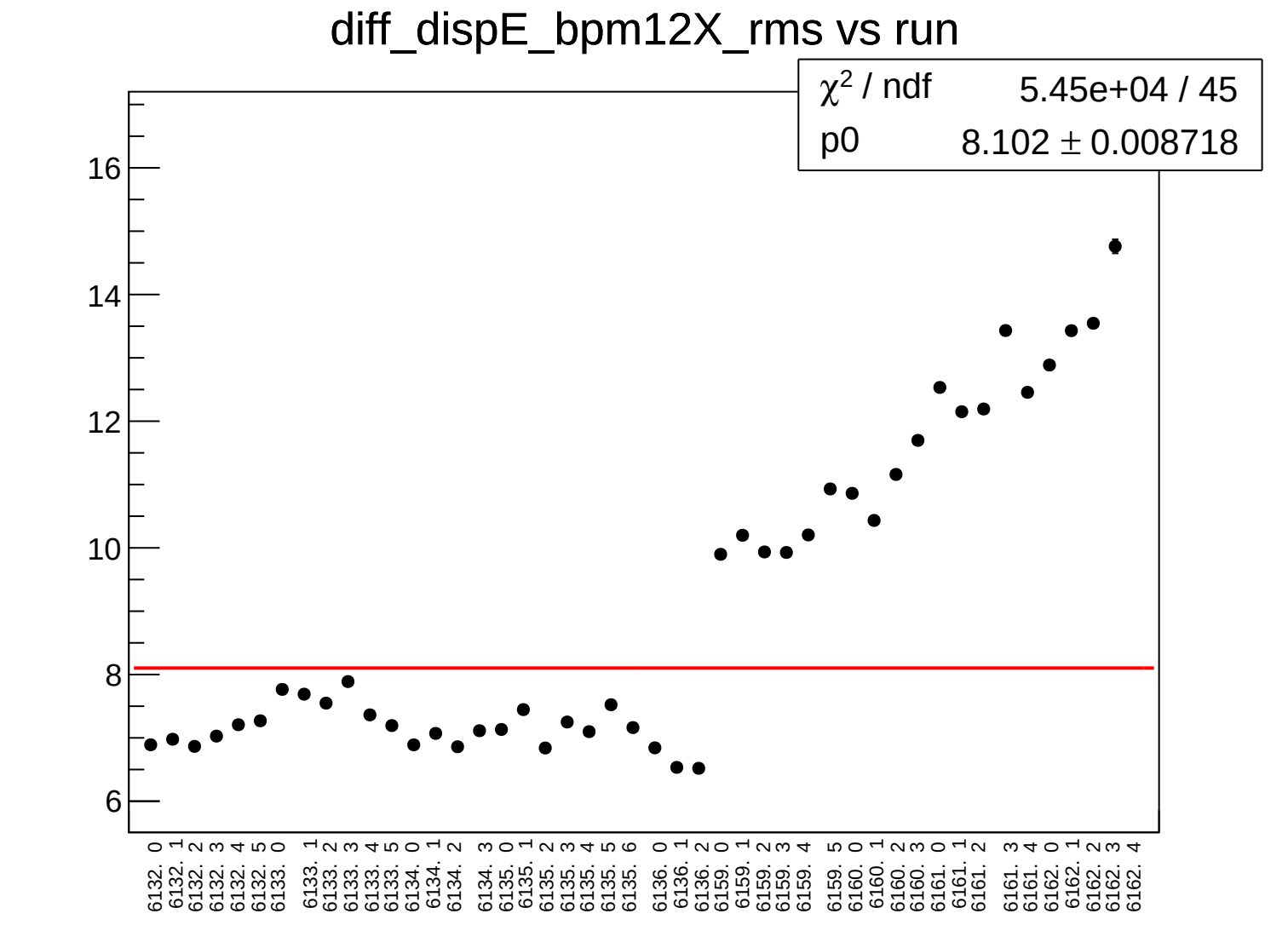

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 45.3 / 45
p0 0.2655 ± 1.143
pull
Entries 46
Mean 30.38
Std Dev 0

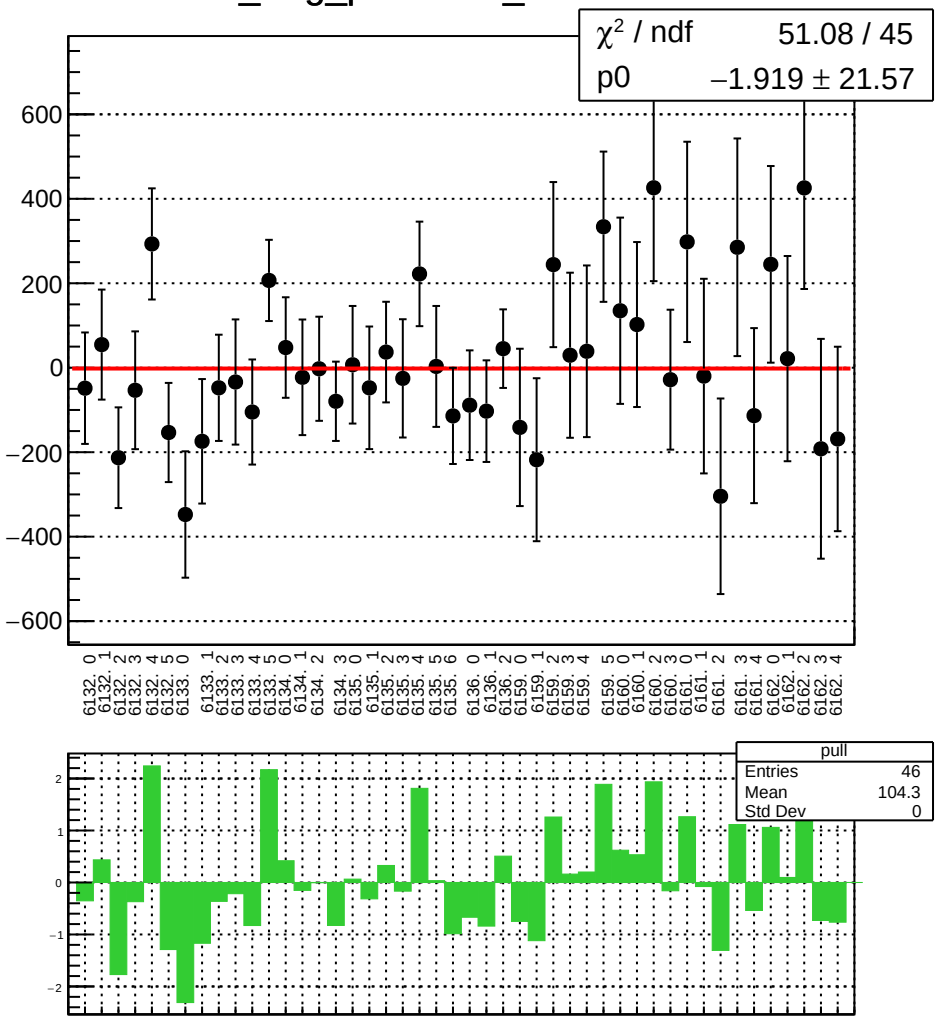

pull1D
Entries 46
Mean 0.00514
Std Dev 0.9923

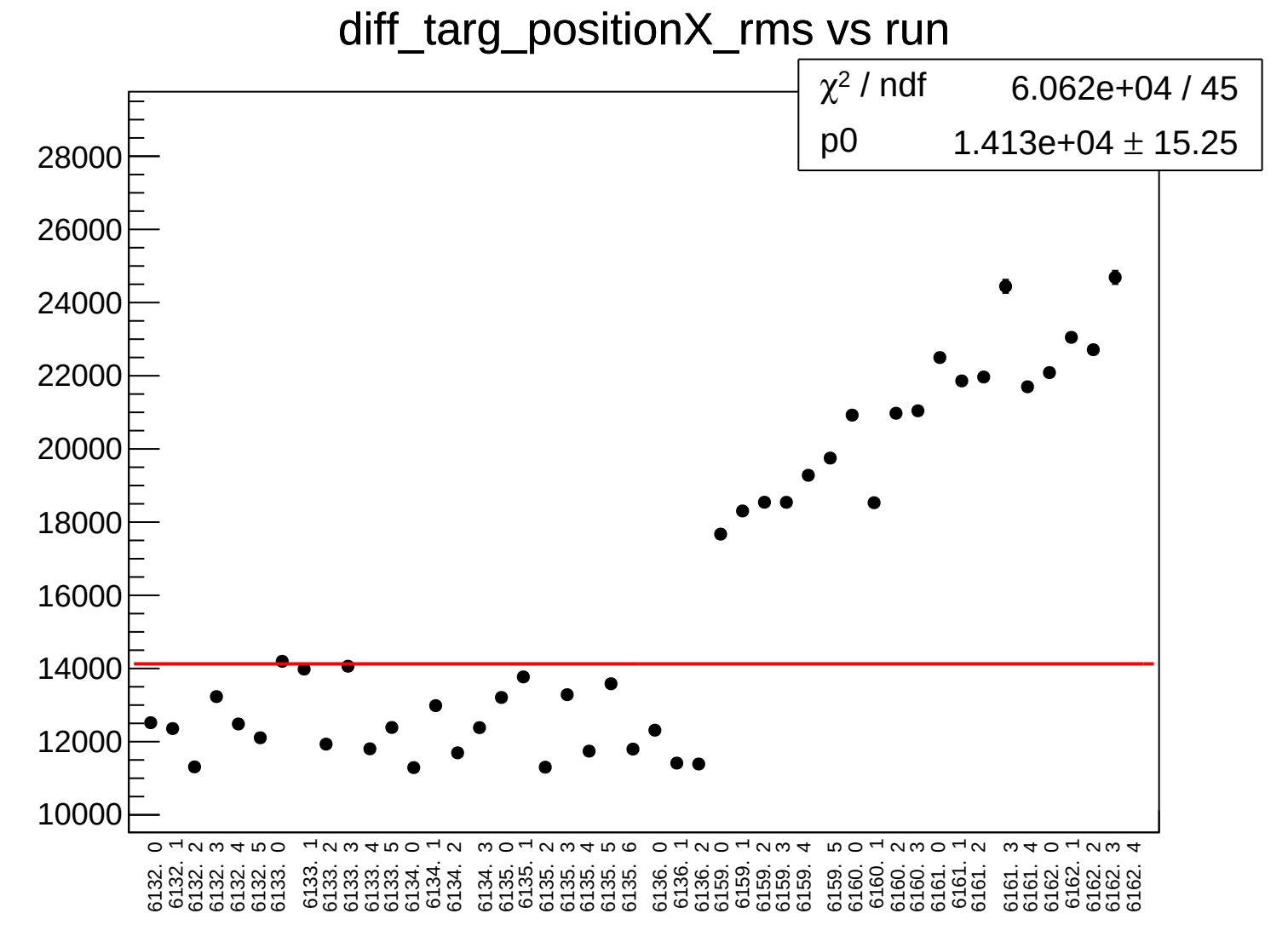

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 119.8 / 45
p0 774.5 ± 0.8083
800
790
780
770
760
750
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

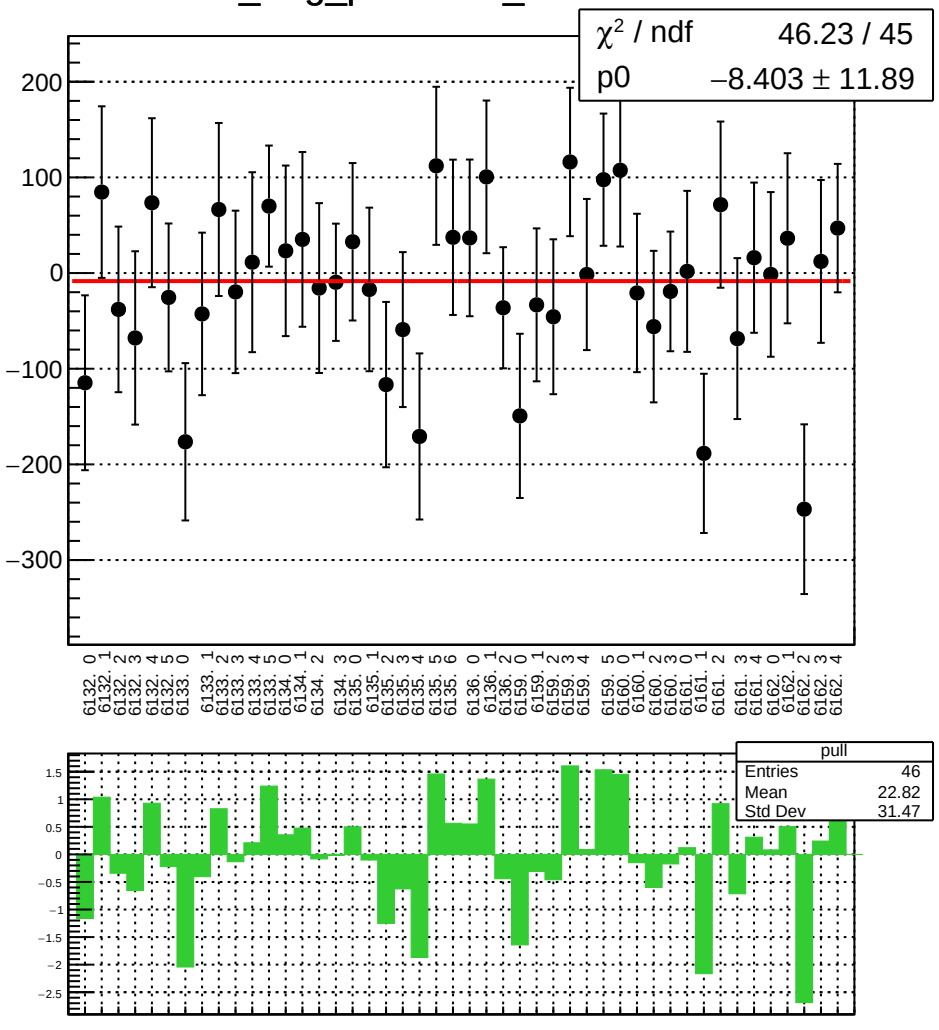

diff_dispE_bpm12X_mean vs run
χ² / ndf 50.02 / 45
p0 0.007844 ± 0.01233
pull
Entries 46
Mean 101.8
Std Dev 0

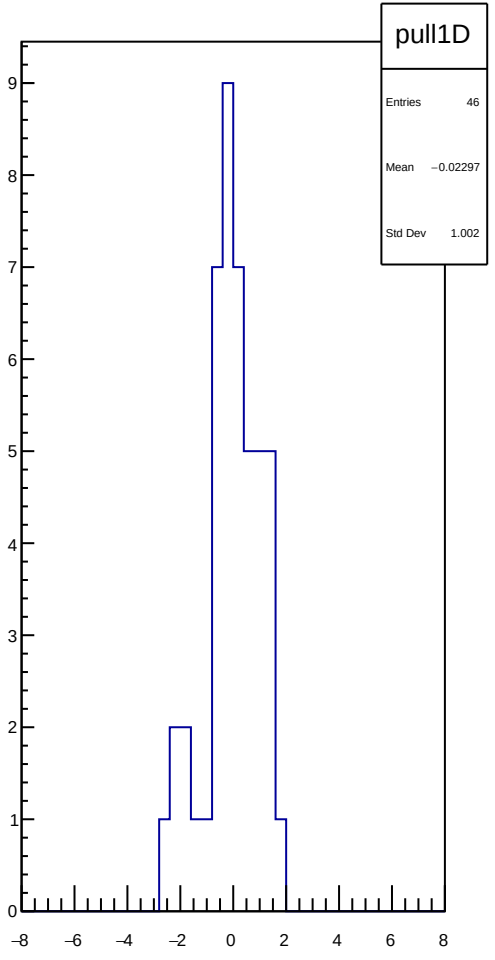

pull1D
Entries 46
Mean −0.0579
Std Dev 1.041

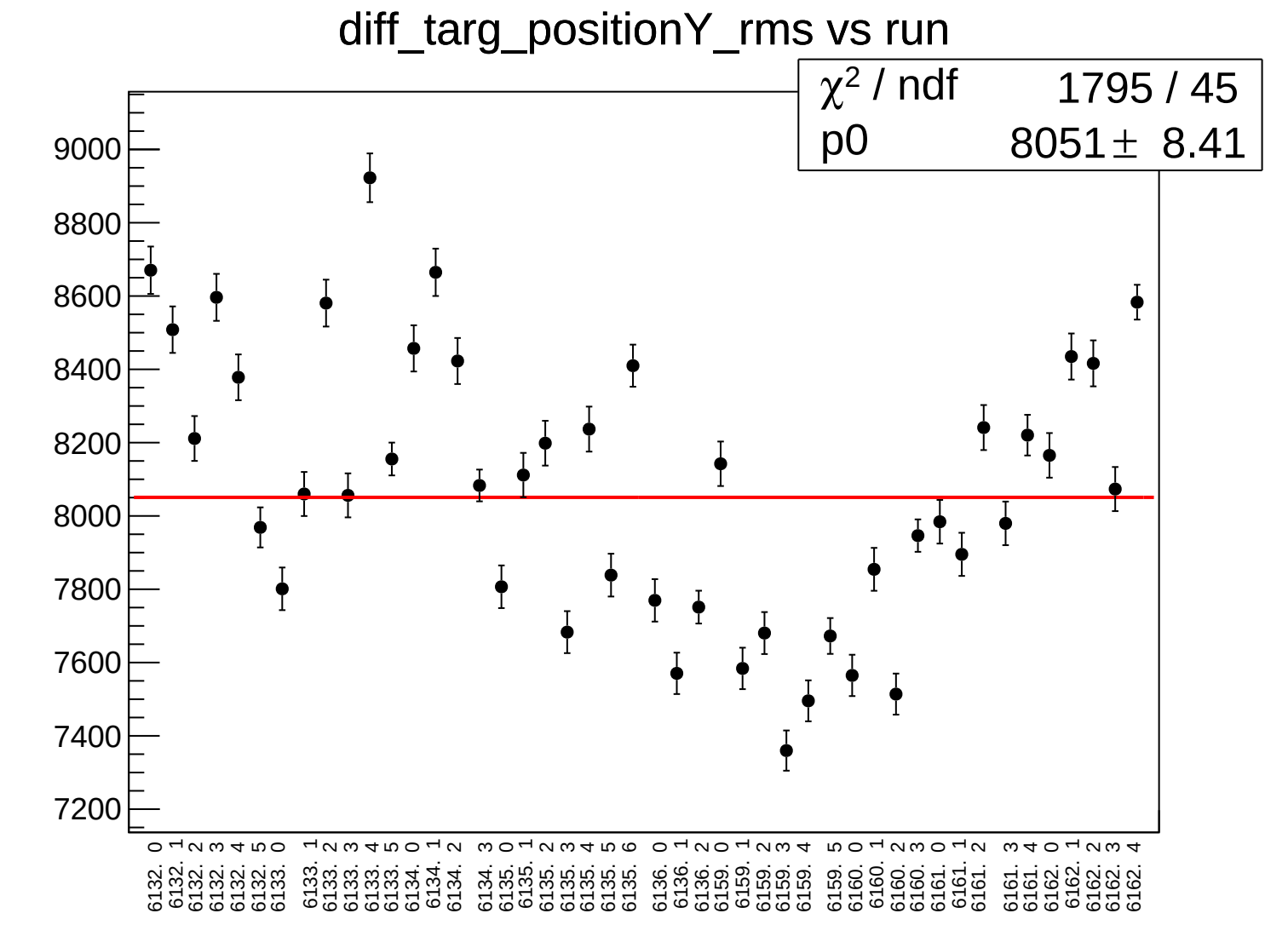

diff_dispE_bpm12X_rms vs run
χ² / ndf 5.45e+04 / 45
p0 8.102 ± 0.008718
16
14
12
10
8
6
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

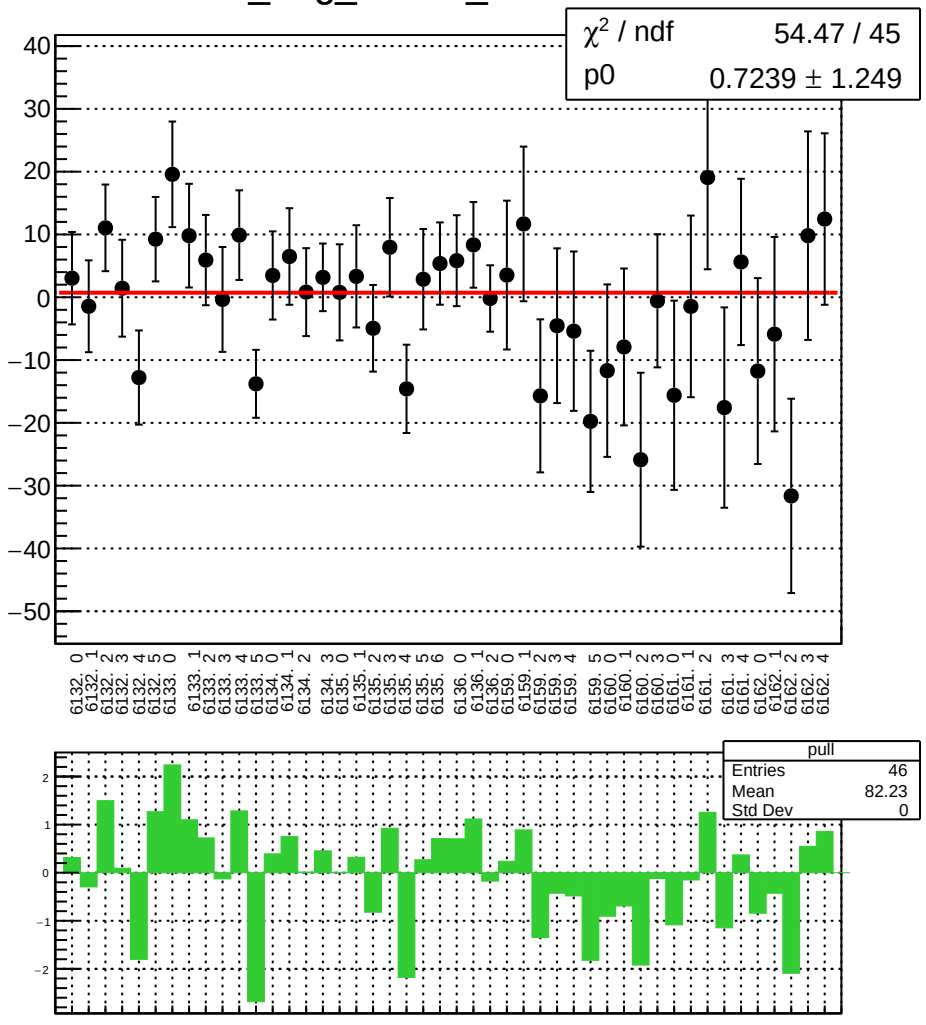

diff_targ_positionX_mean vs run
χ² / ndf 51.08 / 45
p0 −1.919 ± 21.57
600
400
200
0
−200
−400
−600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 104.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.04059
Std Dev 1.053
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

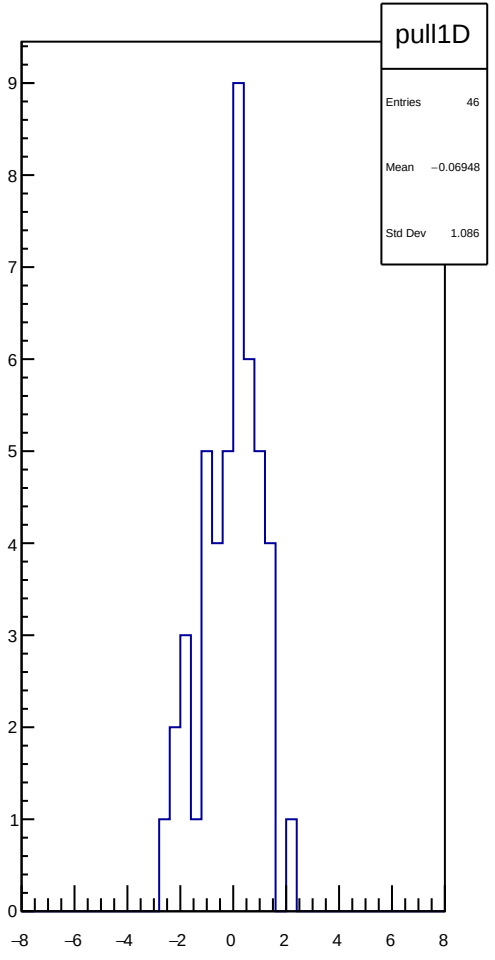

diff_targ_positionX_rms vs run
χ² / ndf 6.062e+04 / 45
p0 1.413e+04 ± 15.25
28000
26000
24000
22000
20000
18000
16000
14000
12000
10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

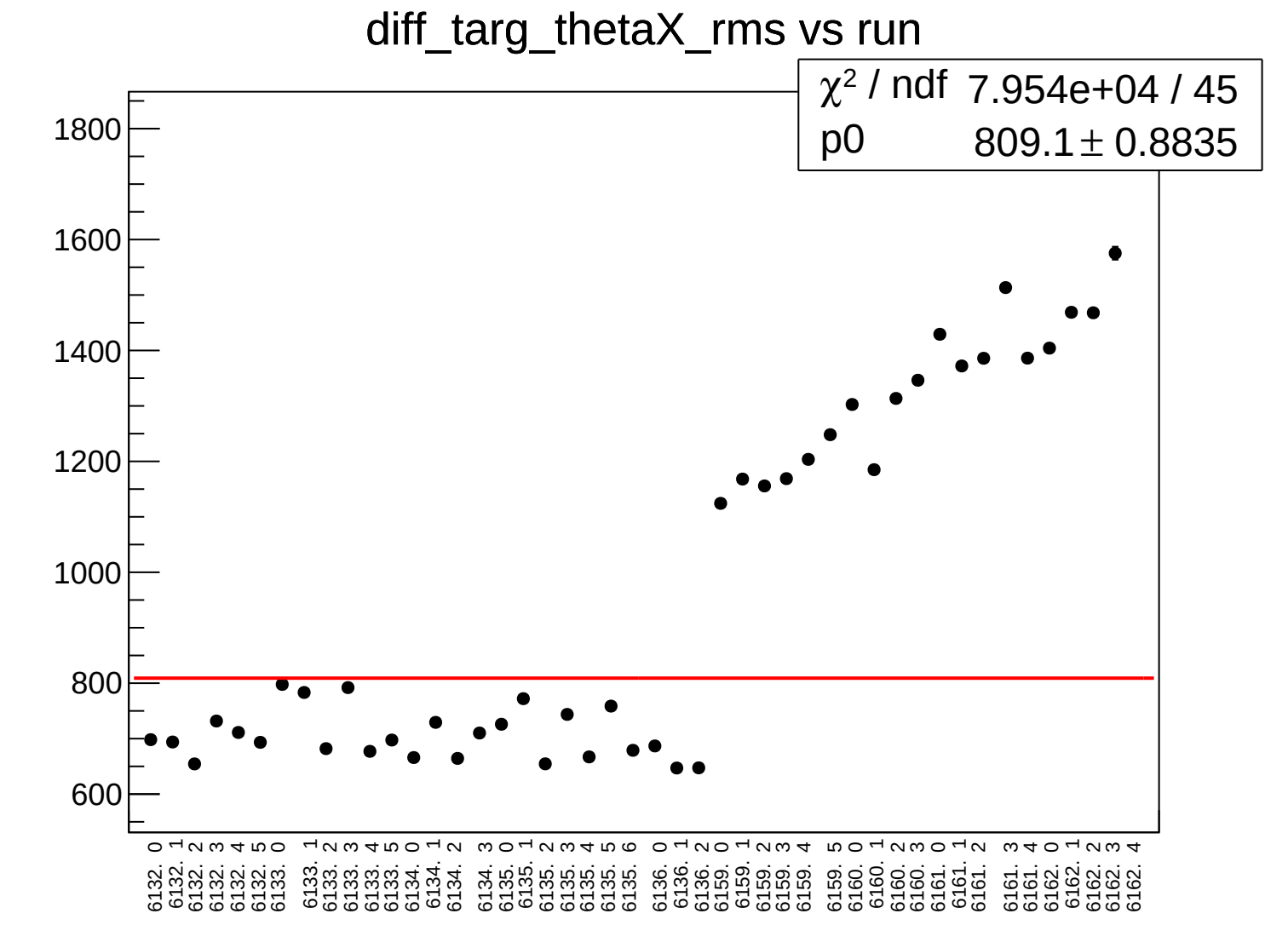

diff_targ_positionY_mean vs run
χ² / ndf 46.23 / 45
p0 −8.403 ± 11.89
pull
Entries 46
Mean 22.82
Std Dev 31.47

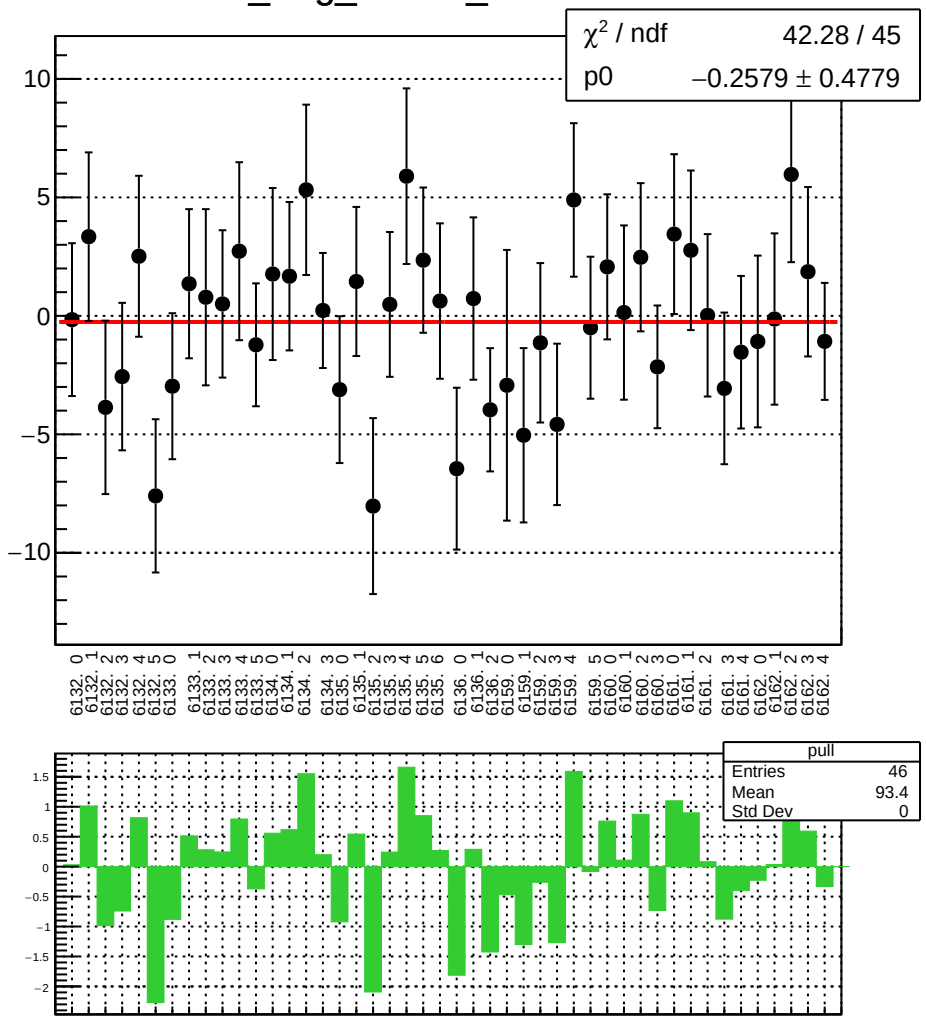

pull1D
Entries 46
Mean −0.02297
Std Dev 1.002

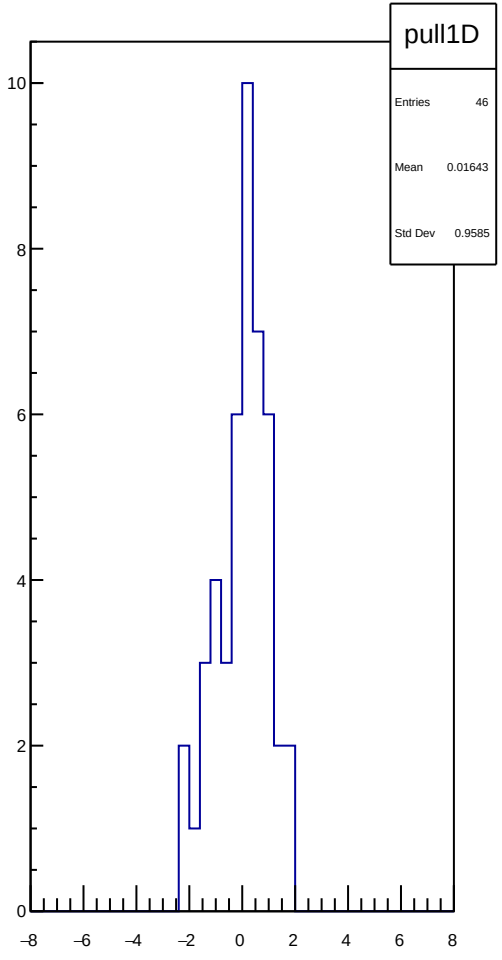

diff_targ_positionY_rms vs run
χ² / ndf 1795 / 45
p0 8051 ± 8.41
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

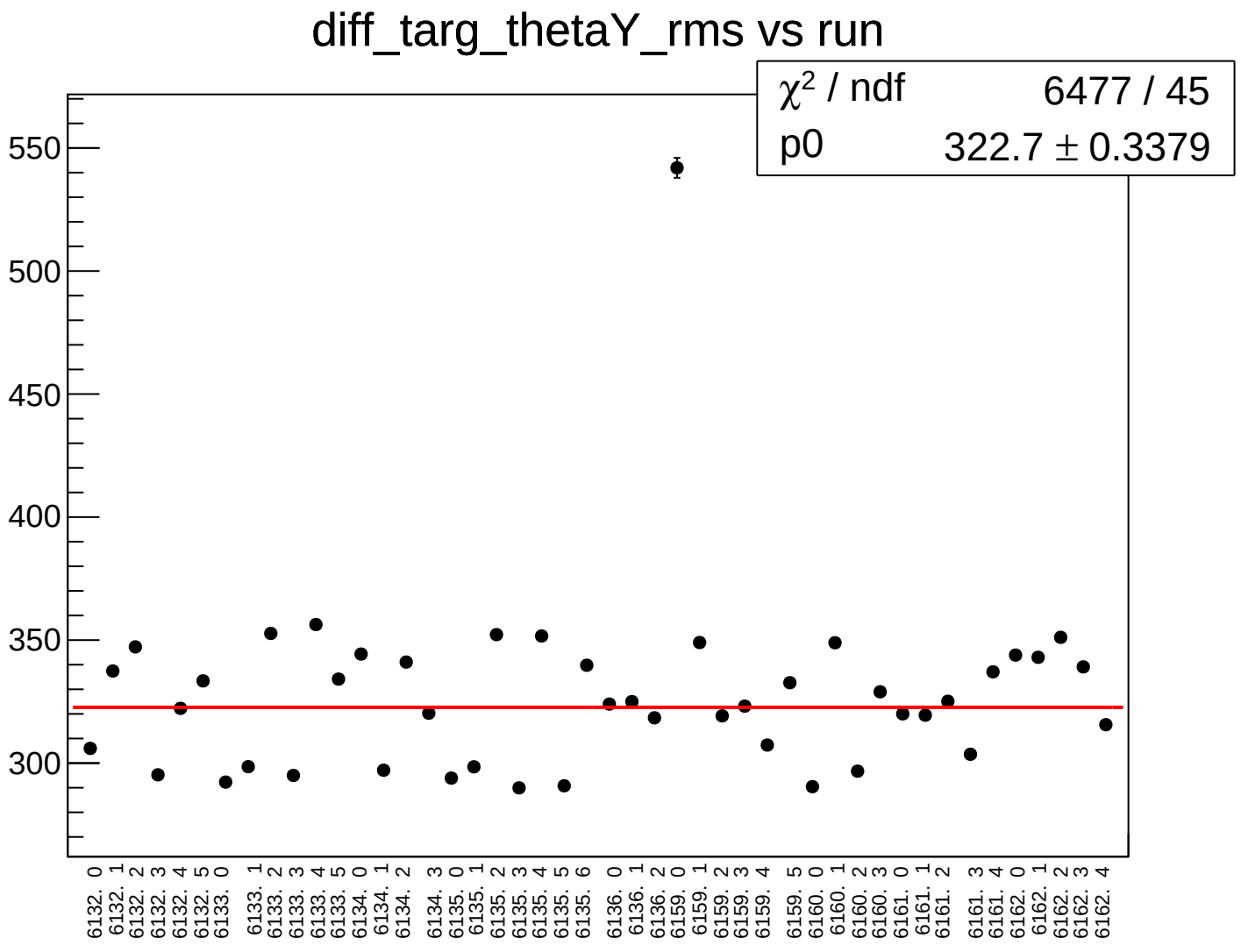

diff_targ_thetaX_mean vs run
χ² / ndf 54.47 / 45
p0 0.7239 ± 1.249
pull
Entries 46
Mean 82.23
Std Dev 0

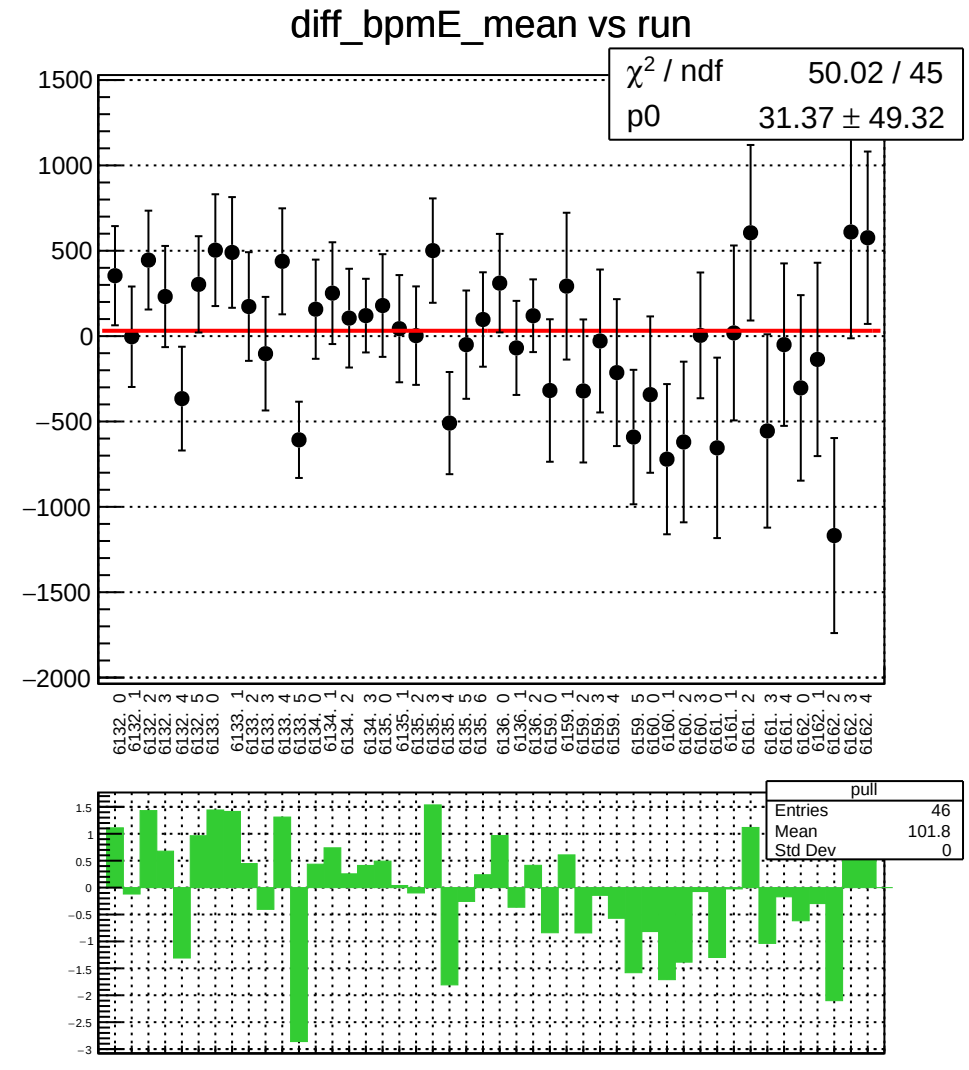

pull1D
Entries 46
Mean −0.06948
Std Dev 1.086

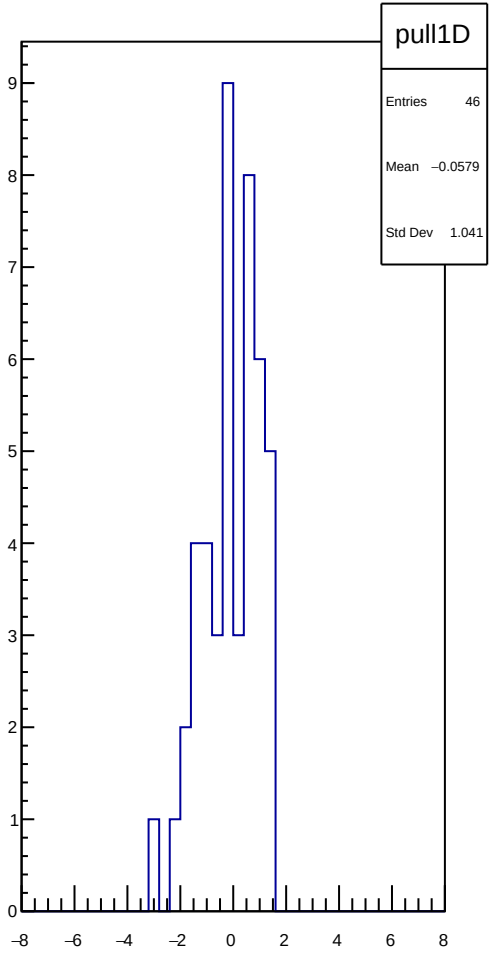

diff_targ_thetaX_rms vs run
χ² / ndf 7.954e+04 / 45
p0 809.1 ± 0.8835
1800
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

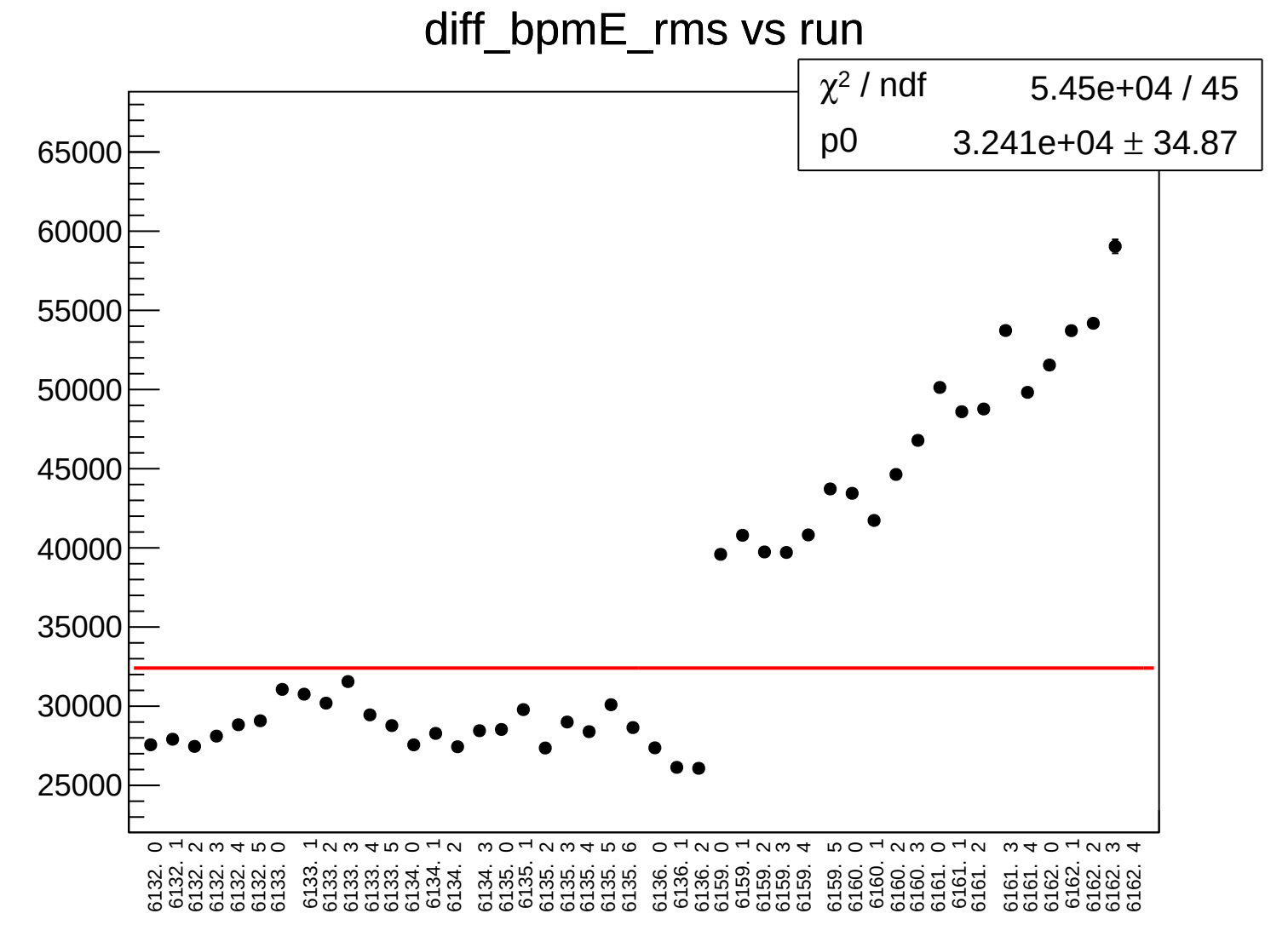

diff_targ_thetaY_mean vs run
χ² / ndf 42.28 / 45
p0 −0.2579 ± 0.4779
10
5
0
−5
−10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 93.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

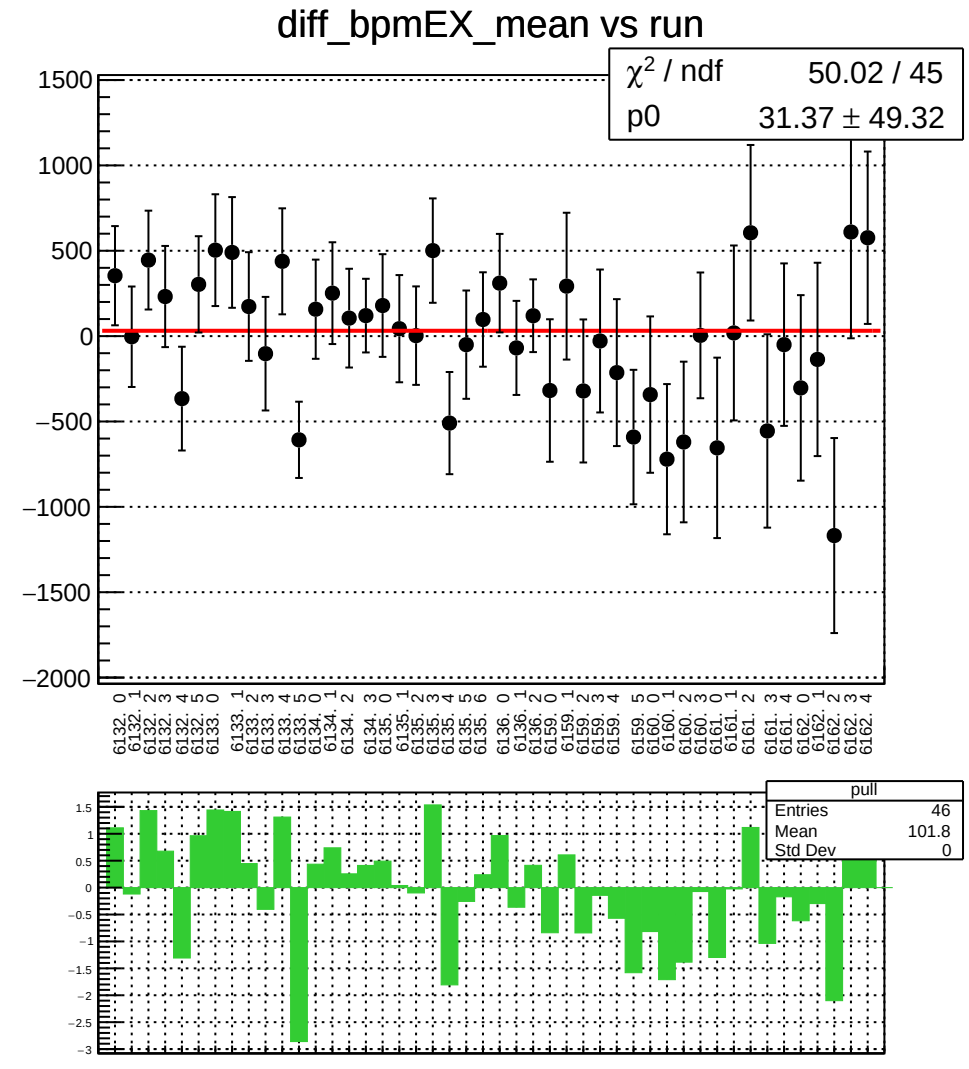

pull1D
Entries 46
Mean 0.01643
Std Dev 0.9585
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

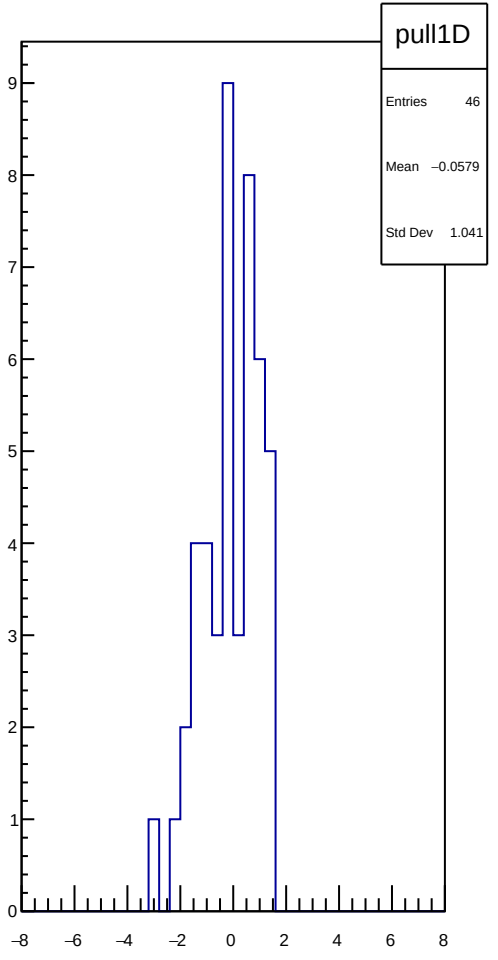

diff_targ_thetaY_rms vs run
χ² / ndf 6477 / 45
p0 322.7 ± 0.3379
550
500
450
400
350
300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

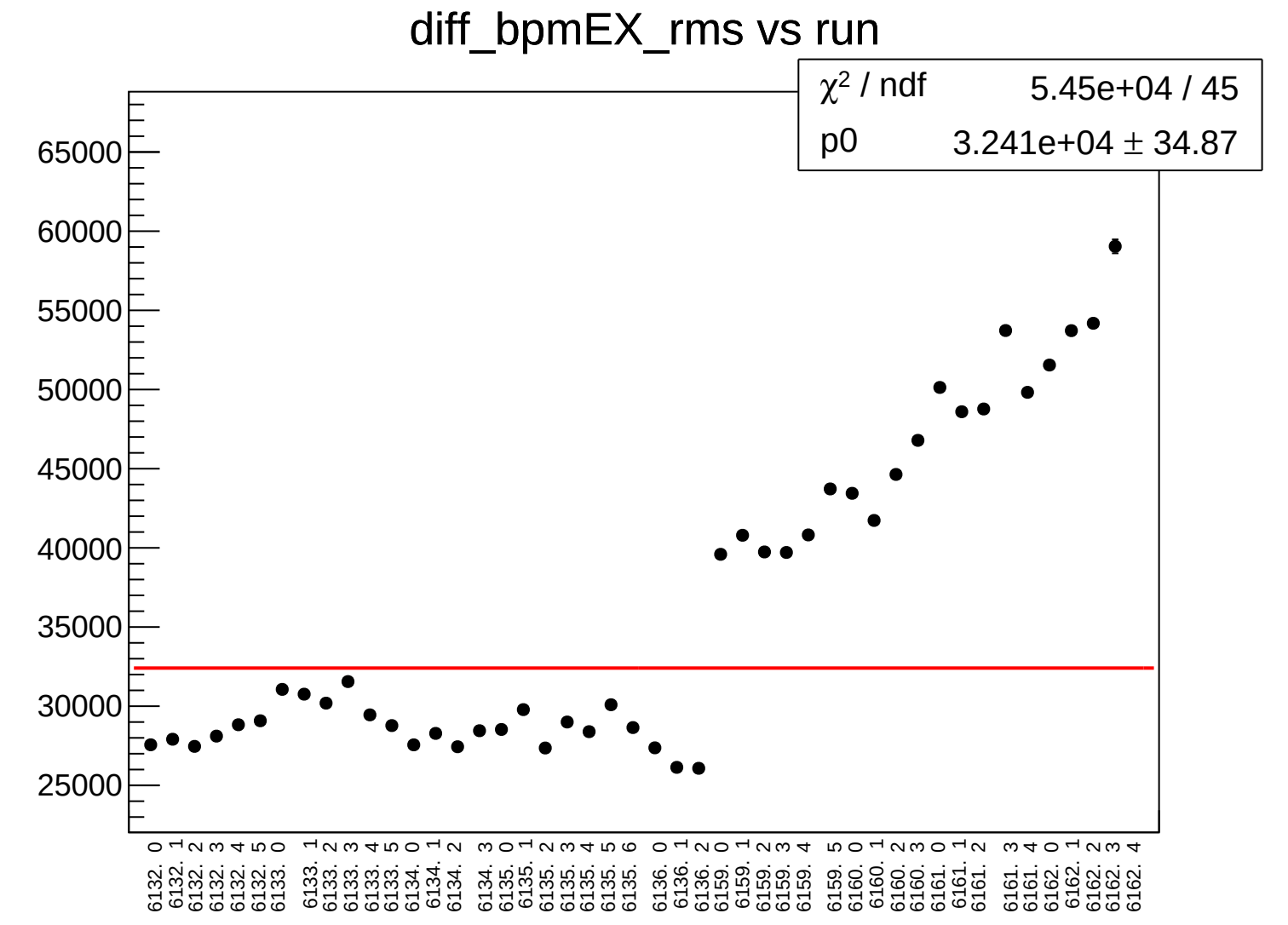

diff_bpmE_mean vs run
χ² / ndf 50.02 / 45
p0 31.37 ± 49.32
1500
1000
500
0
−500
−1000
−1500
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 101.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

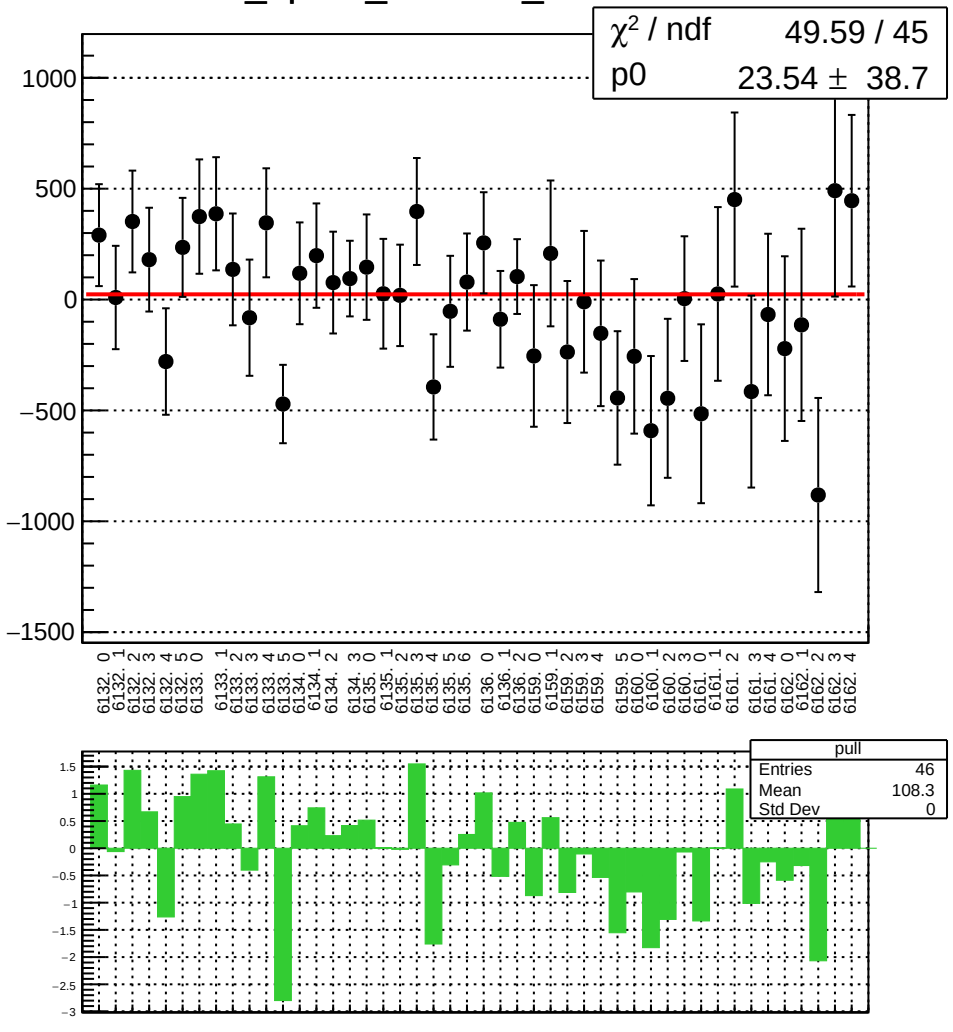

pull1D
Entries 46
Mean −0.0579
Std Dev 1.041
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

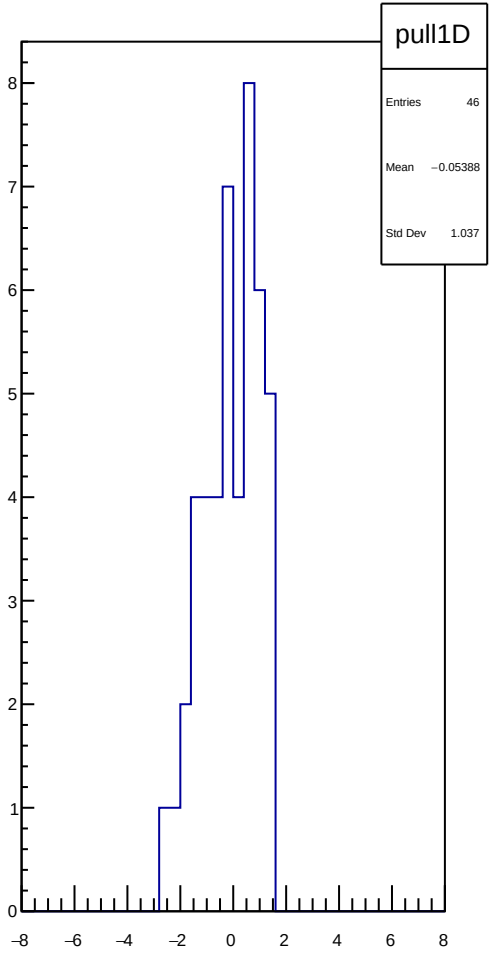

diff_bpmE_rms vs run
χ² / ndf 5.45e+04 / 45
p0 3.241e+04 ± 34.87
65000
60000
55000
50000
45000
40000
35000
30000
25000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

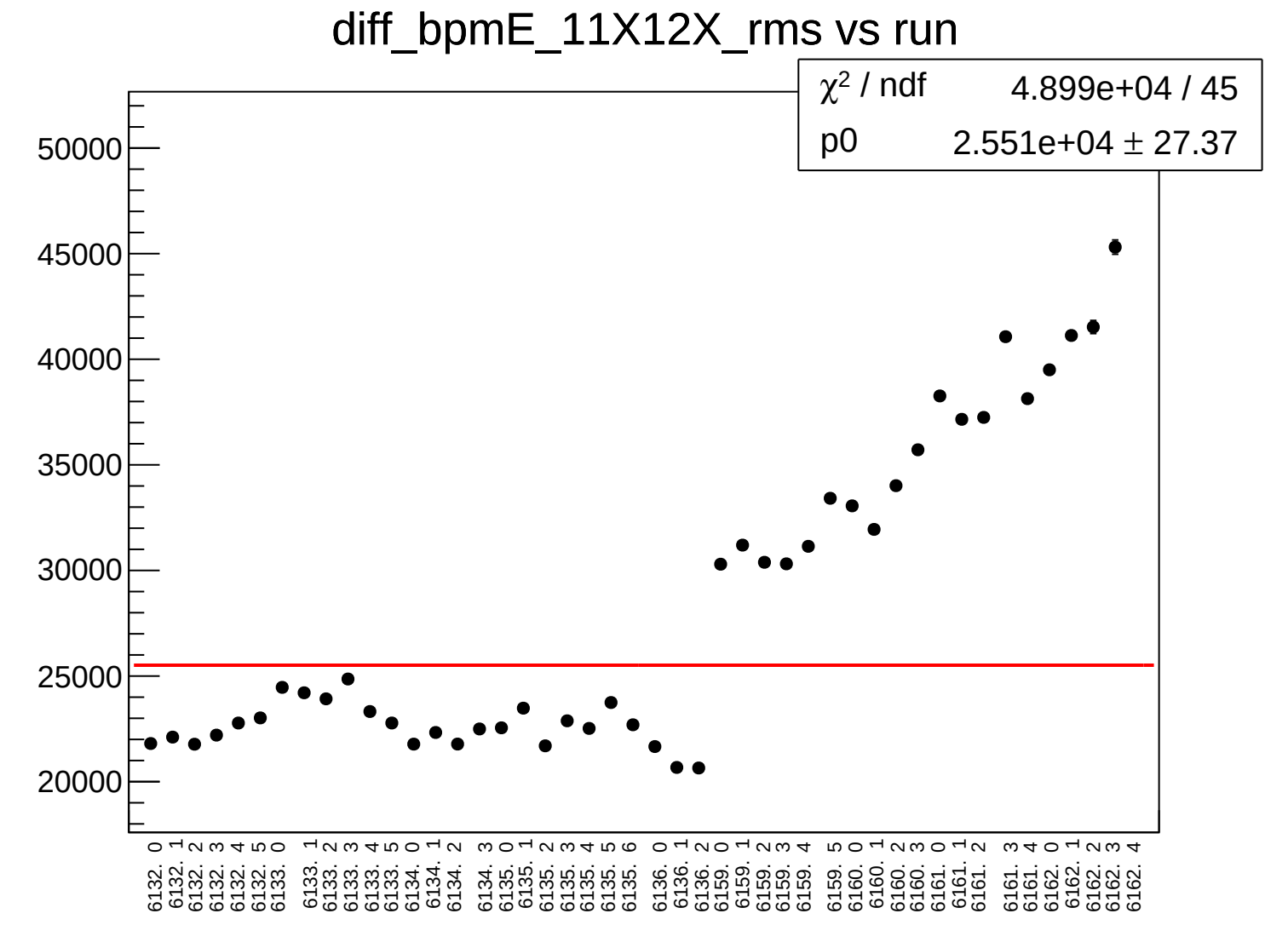

diff_bpmEX_mean vs run
χ² / ndf 50.02 / 45
p0 31.37 ± 49.32
pull
Entries 46
Mean 101.8
Std Dev 0

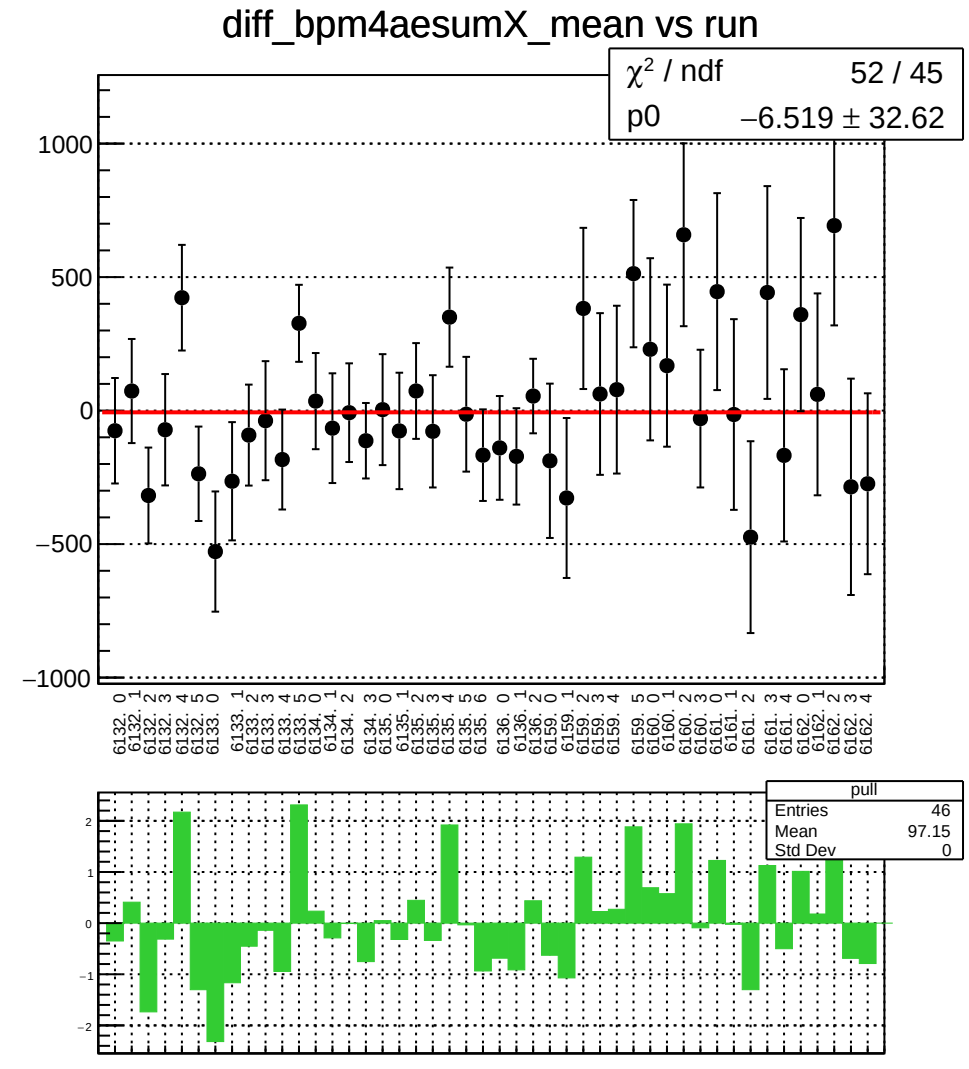

pull1D
Entries 46
Mean −0.0579
Std Dev 1.041

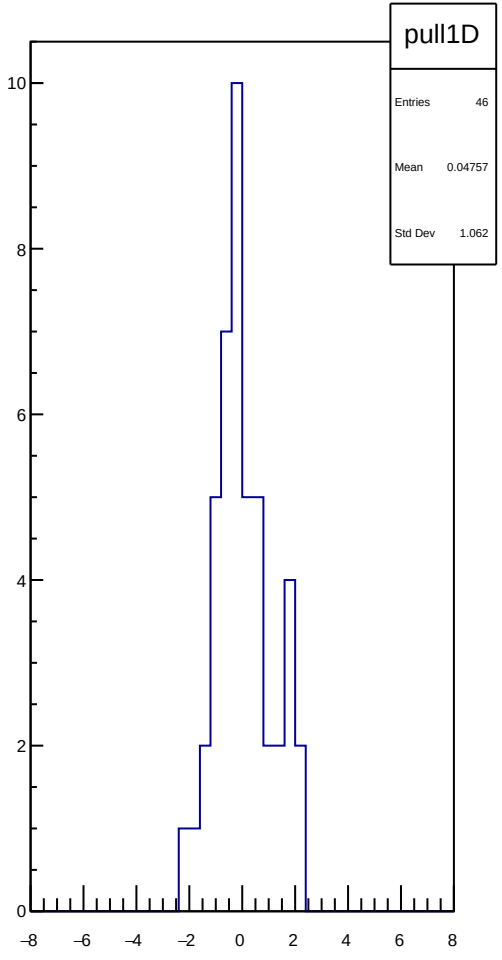

diff_bpmEX_rms vs run
χ² / ndf 5.45e+04 / 45
p0 3.241e+04 ± 34.87
65000
60000
55000
50000
45000
40000
35000
30000
25000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

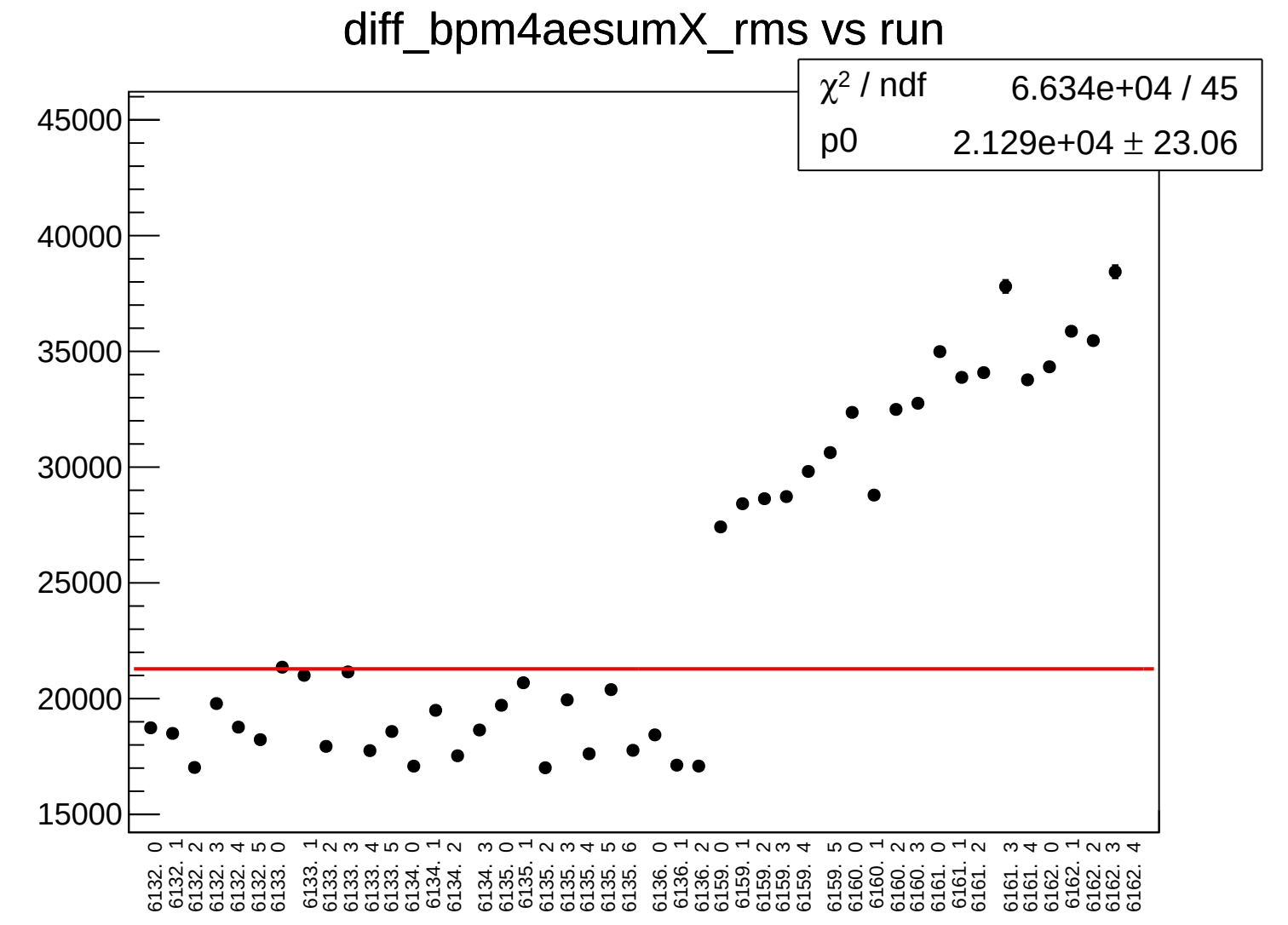

diff_bpmE_11X12X_mean vs run
χ² / ndf 49.59 / 45
p0 23.54 ± 38.7
1000
500
0
−500
−1000
−1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 108.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

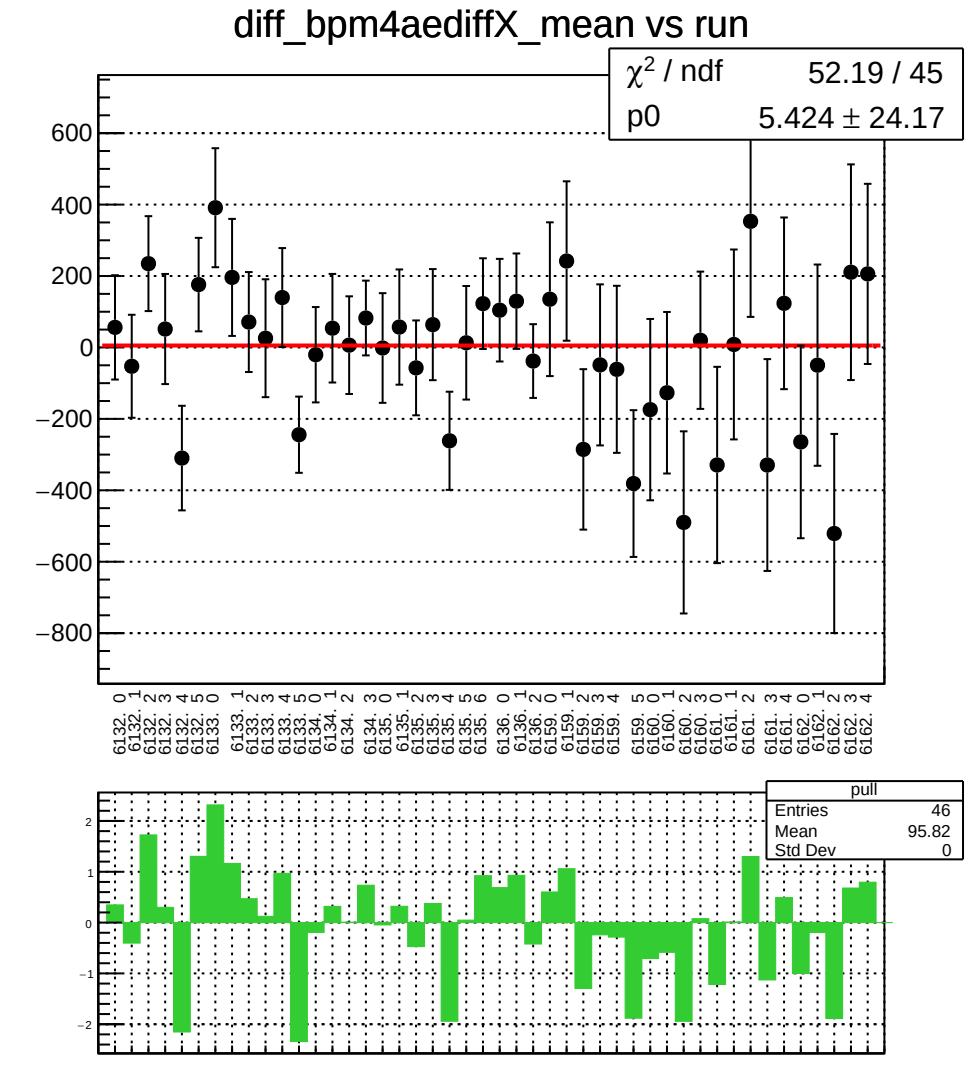

pull1D
Entries 46
Mean −0.05388
Std Dev 1.037
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

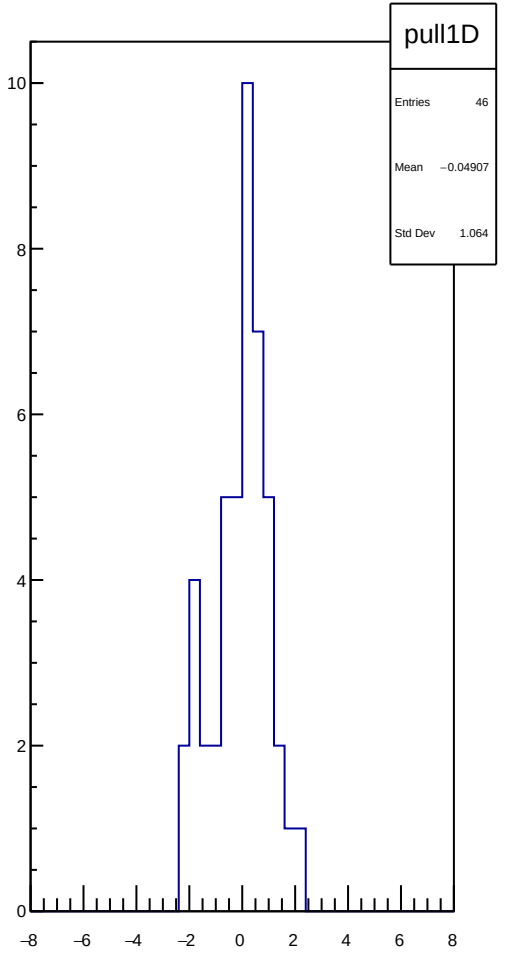

diff_bpmE_11X12X_rms vs run
χ² / ndf 4.899e+04 / 45
p0 2.551e+04 ± 27.37
50000
45000
40000
35000
30000
25000
20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

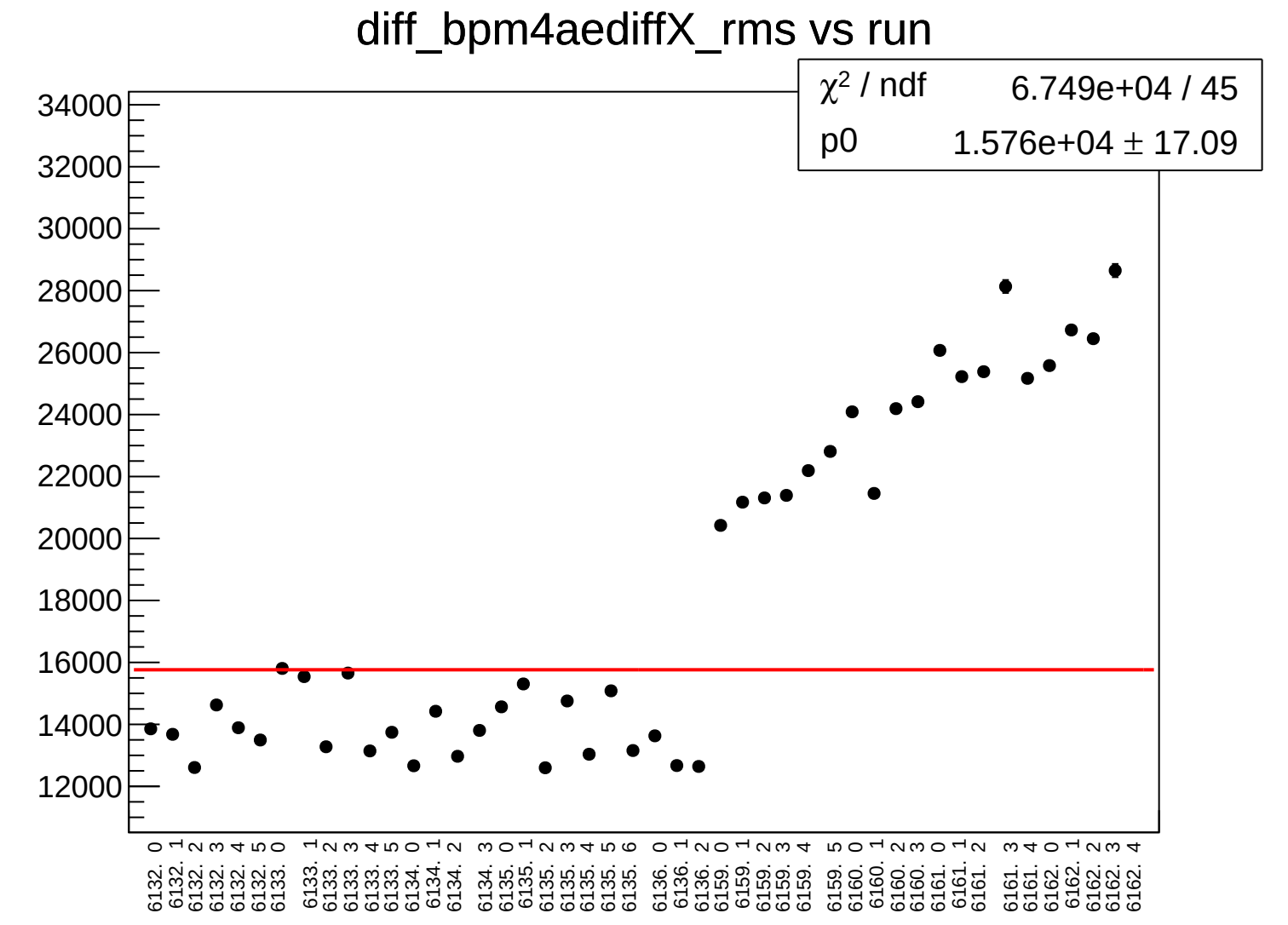

diff_bpm4aesumX_mean vs run
χ² / ndf 52 / 45
p0 −6.519 ± 32.62
1000
500
0
−500
−1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 97.15
Std Dev 0
2
1
0
−1
−2

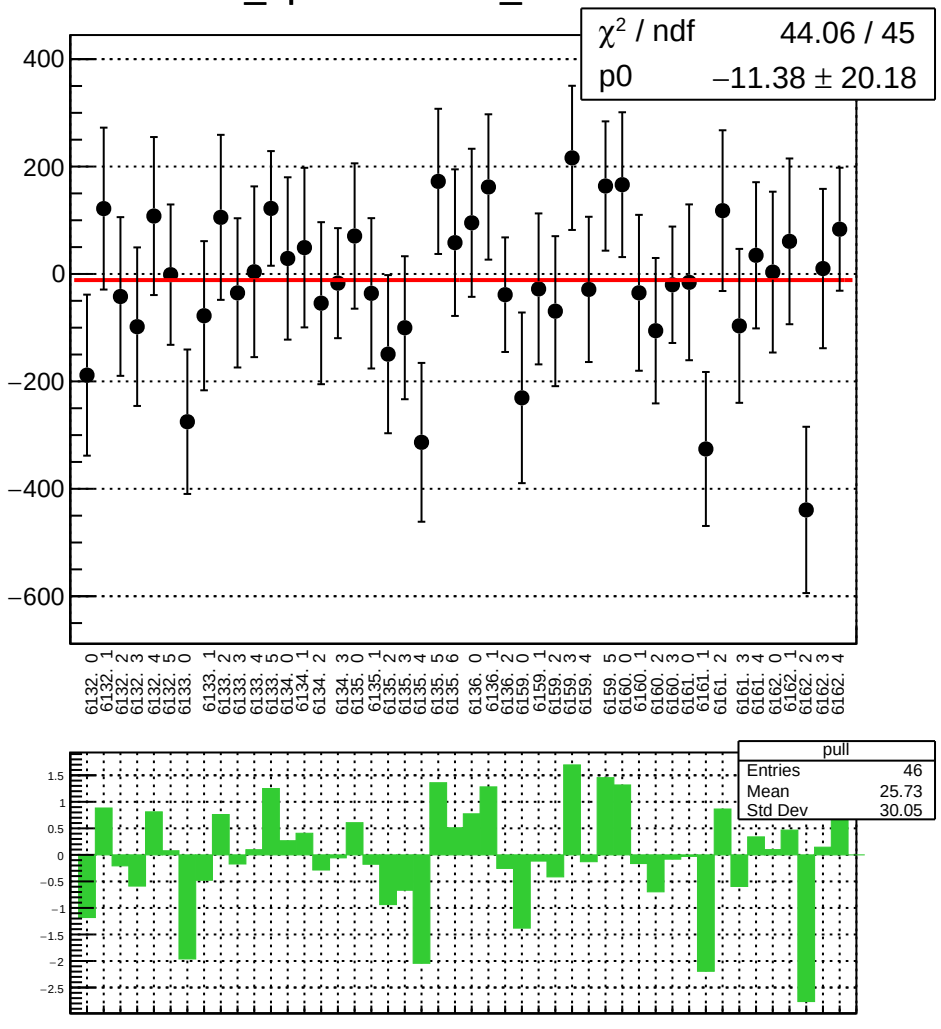

pull1D
Entries 46
Mean 0.04757
Std Dev 1.062
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

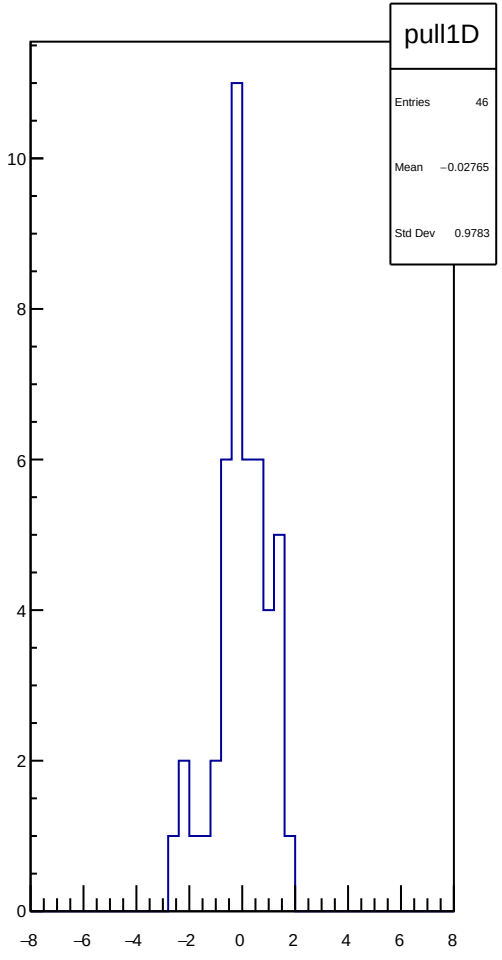

diff_bpm4aesumX_rms vs run
χ² / ndf 6.634e+04 / 45
p0 2.129e+04 ± 23.06
45000
40000
35000
30000
25000
20000
15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

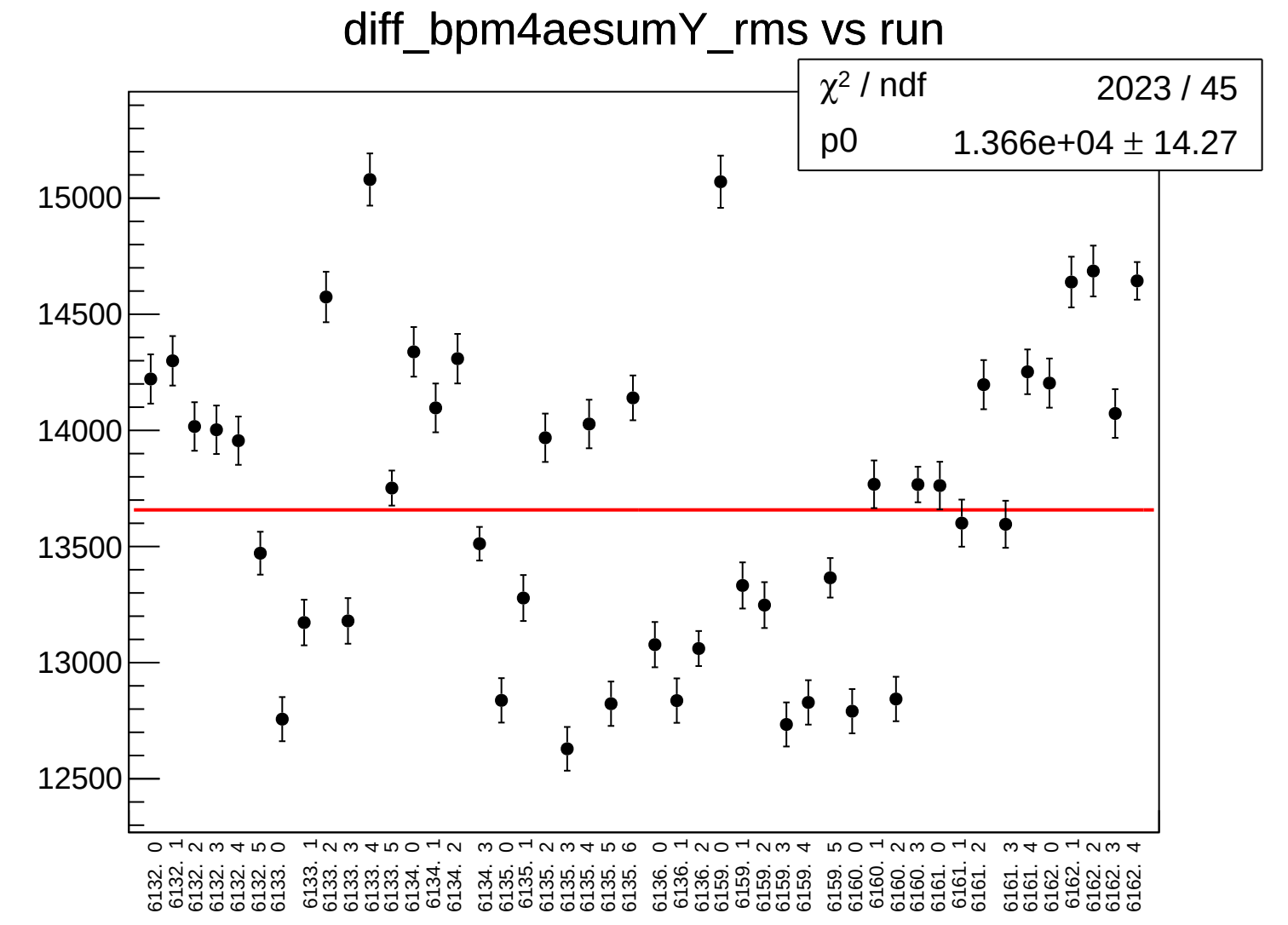

diff_bpm4aediffX_mean vs run
χ² / ndf 52.19 / 45
p0 5.424 ± 24.17
pull
Entries 46
Mean 95.82
Std Dev 0

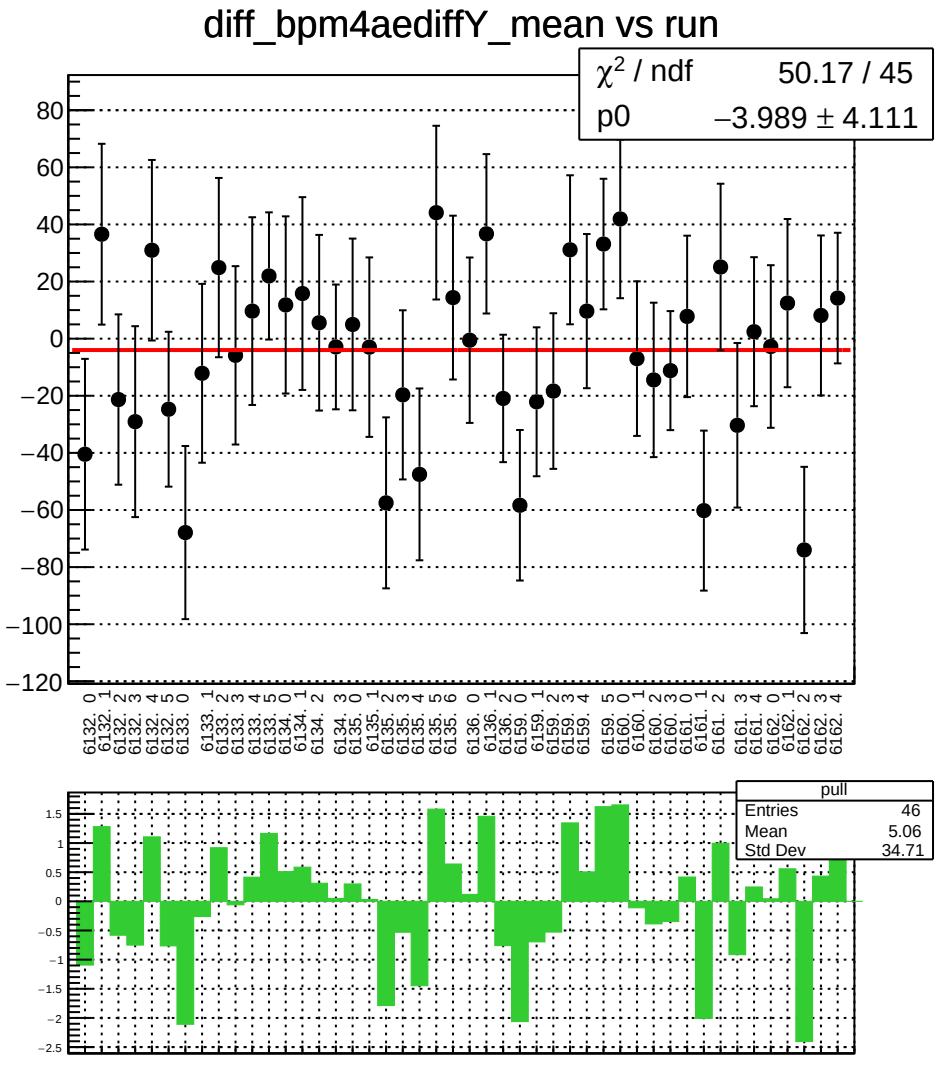

pull1D
Entries 46
Mean −0.04907
Std Dev 1.064

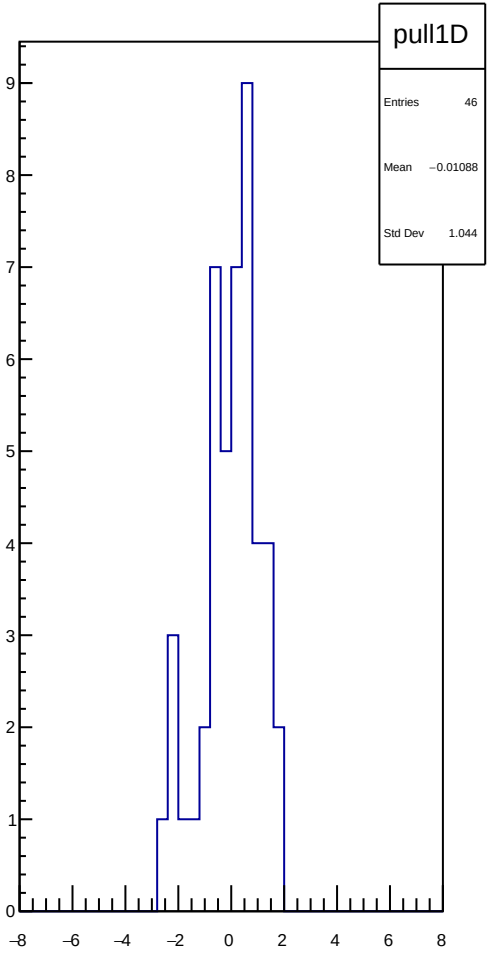

diff_bpm4aediffX_rms vs run
χ² / ndf 6.749e+04 / 45
p0 1.576e+04 ± 17.09
34000
32000
30000
28000
26000
24000
22000
20000
18000
16000
14000
12000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

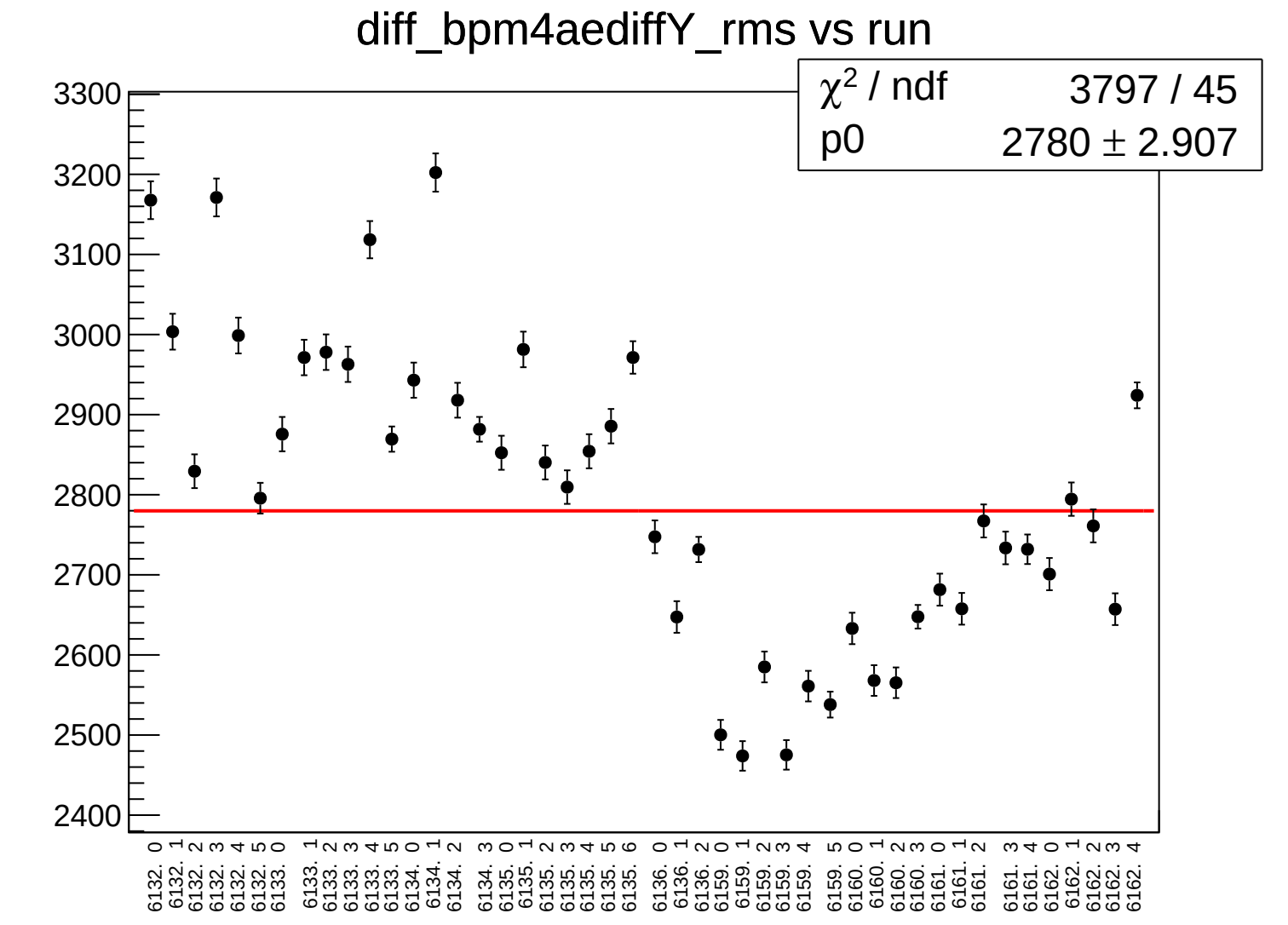

diff_bpm4aesumY_mean vs run
χ² / ndf 44.06 / 45
p0 −11.38 ± 20.18
400
200
0
−200
−400
−600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 25.73
Std Dev 30.05
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

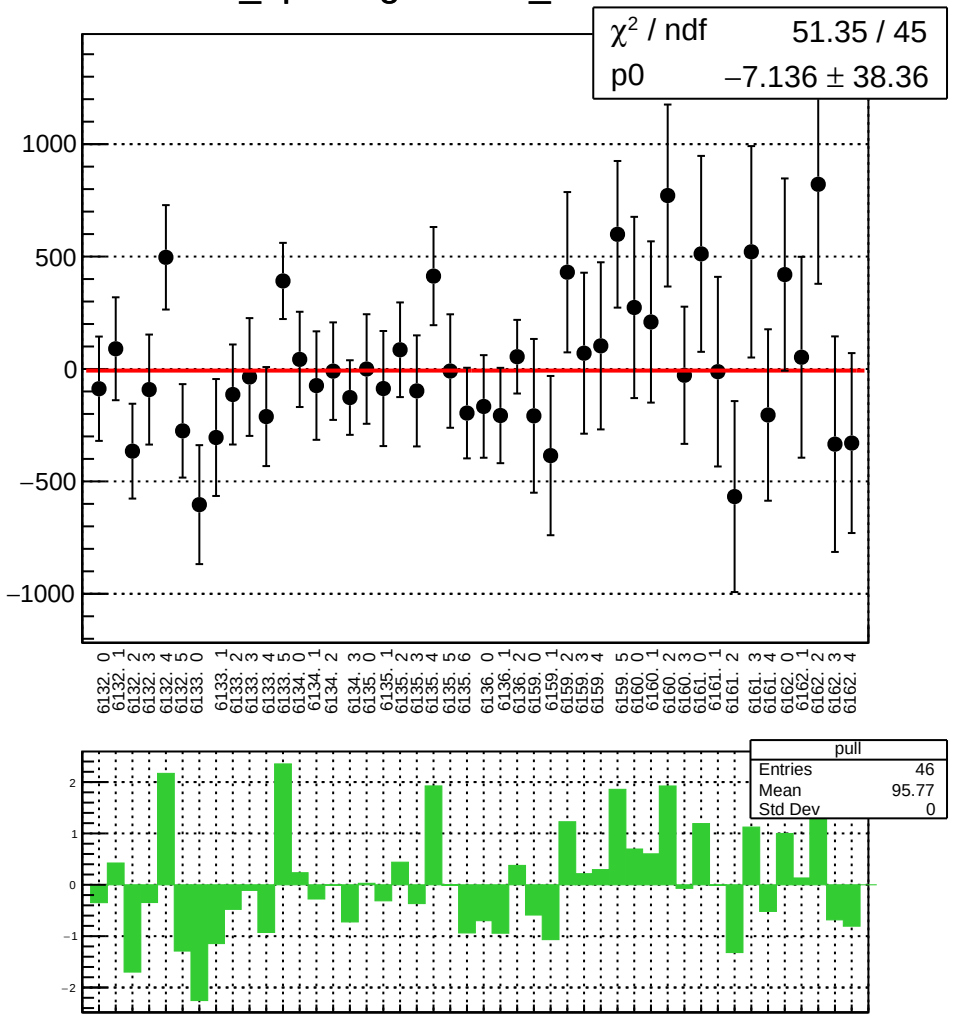

pull1D
Entries 46
Mean −0.02765
Std Dev 0.9783
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

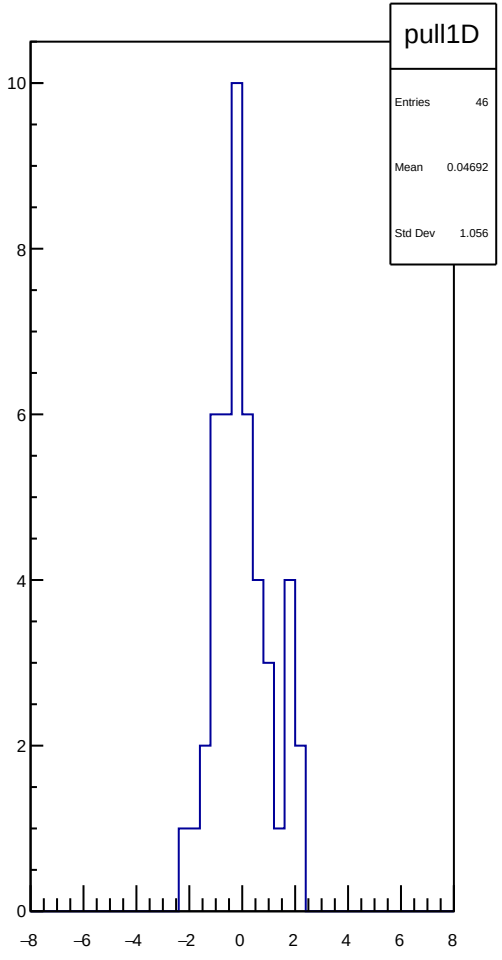

diff_bpm4aesumY_rms vs run
χ² / ndf 2023 / 45
p0 1.366e+04 ± 14.27
15000
14500
14000
13500
13000
12500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

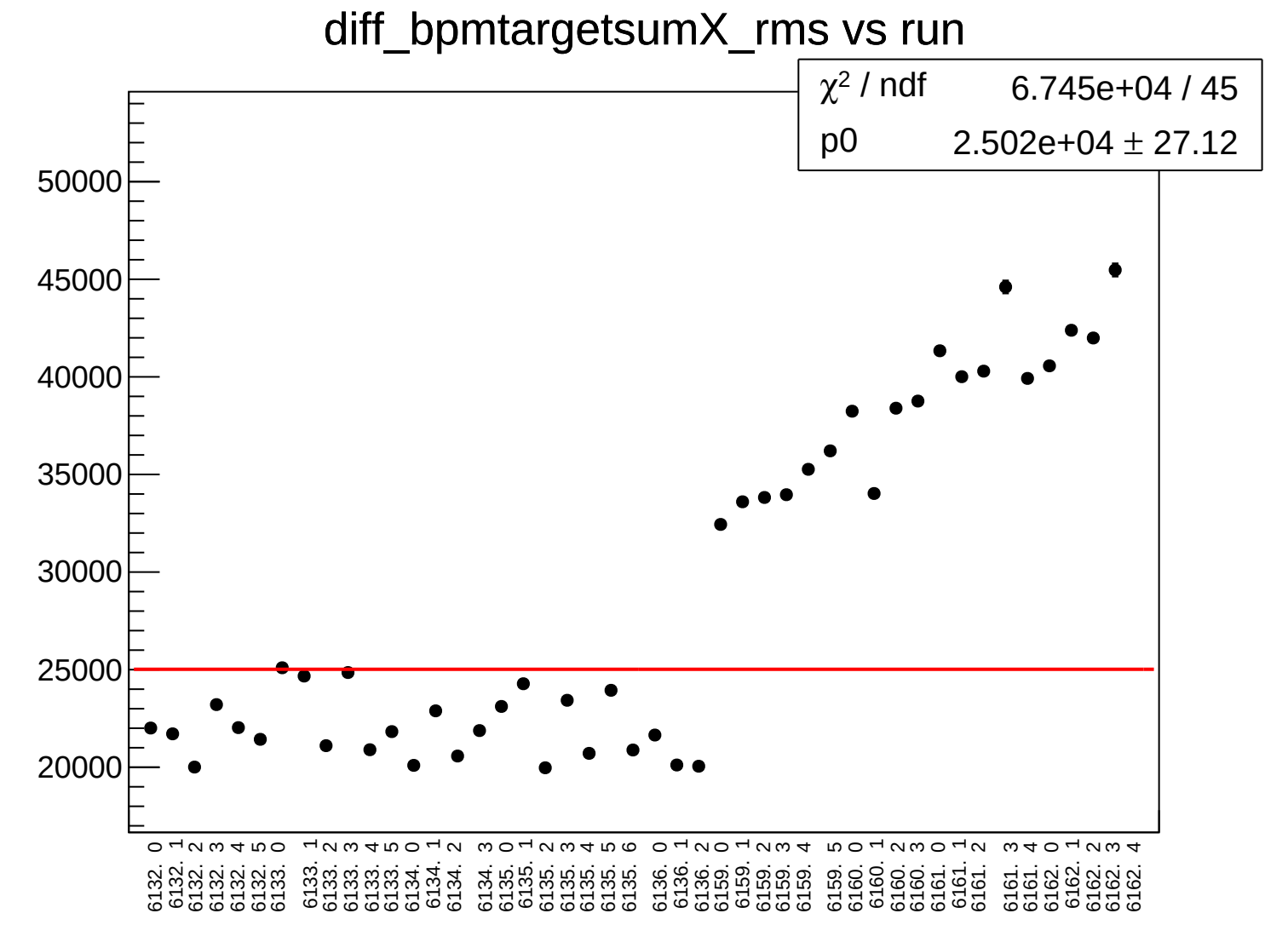

diff_bpm4aediffY_mean vs run
χ² / ndf 50.17 / 45
p0 −3.989 ± 4.111
pull
Entries 46
Mean 5.06
Std Dev 34.71

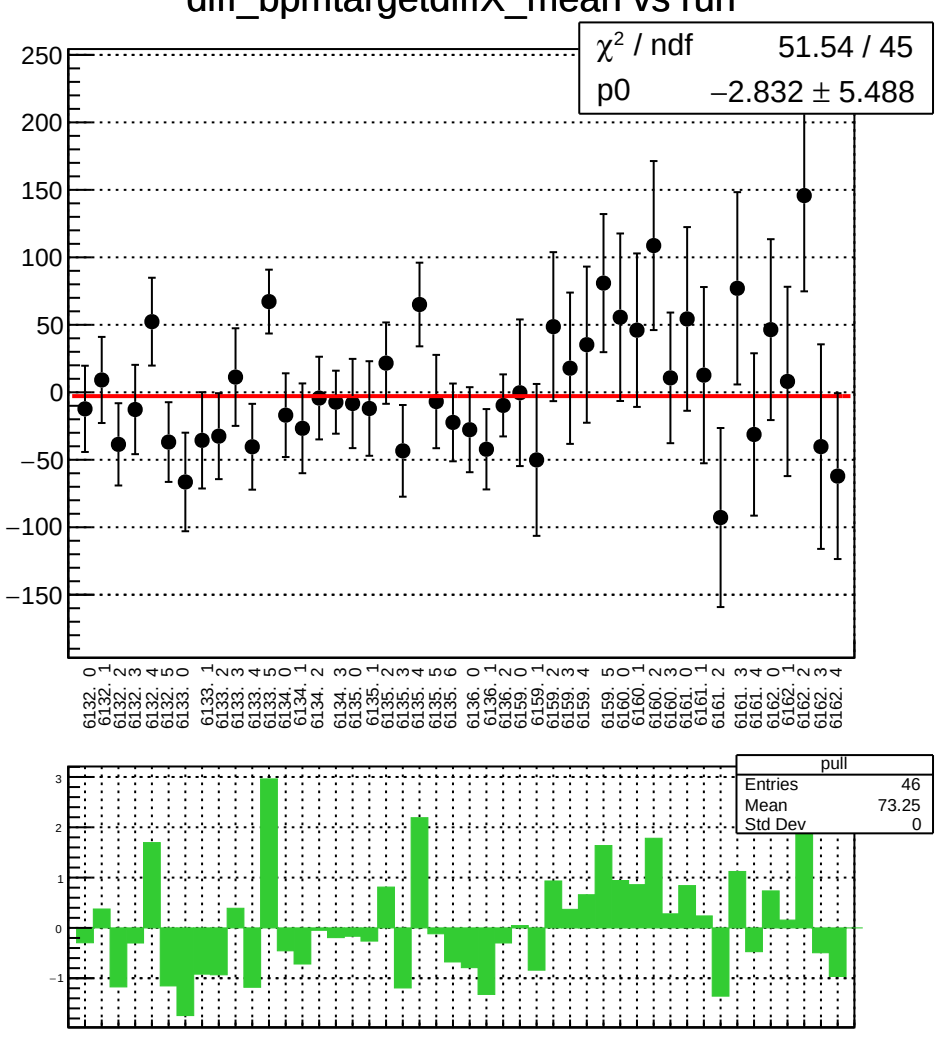

pull1D
Entries 46
Mean −0.01088
Std Dev 1.044

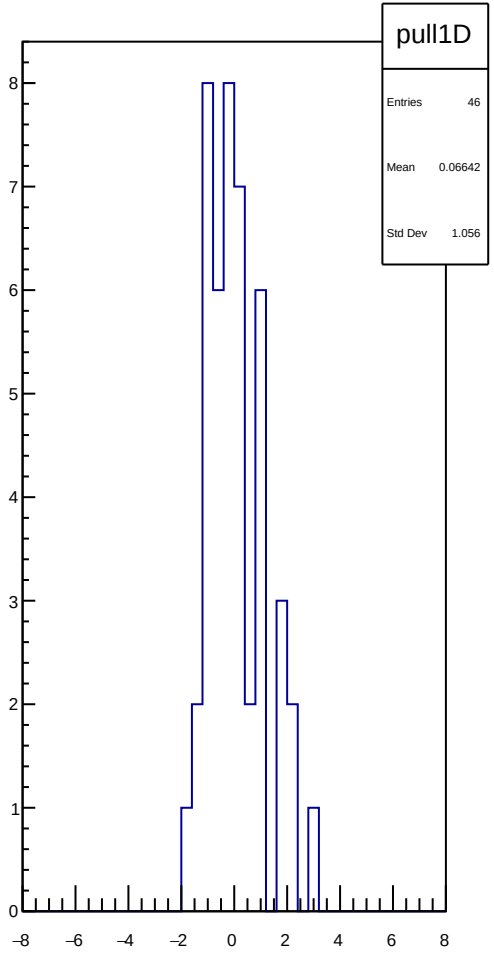

diff_bpm4aediffY_rms vs run
χ² / ndf 3797 / 45
p0 2780 ± 2.907
3300
3200
3100
3000
2900
2800
2700
2600
2500
2400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

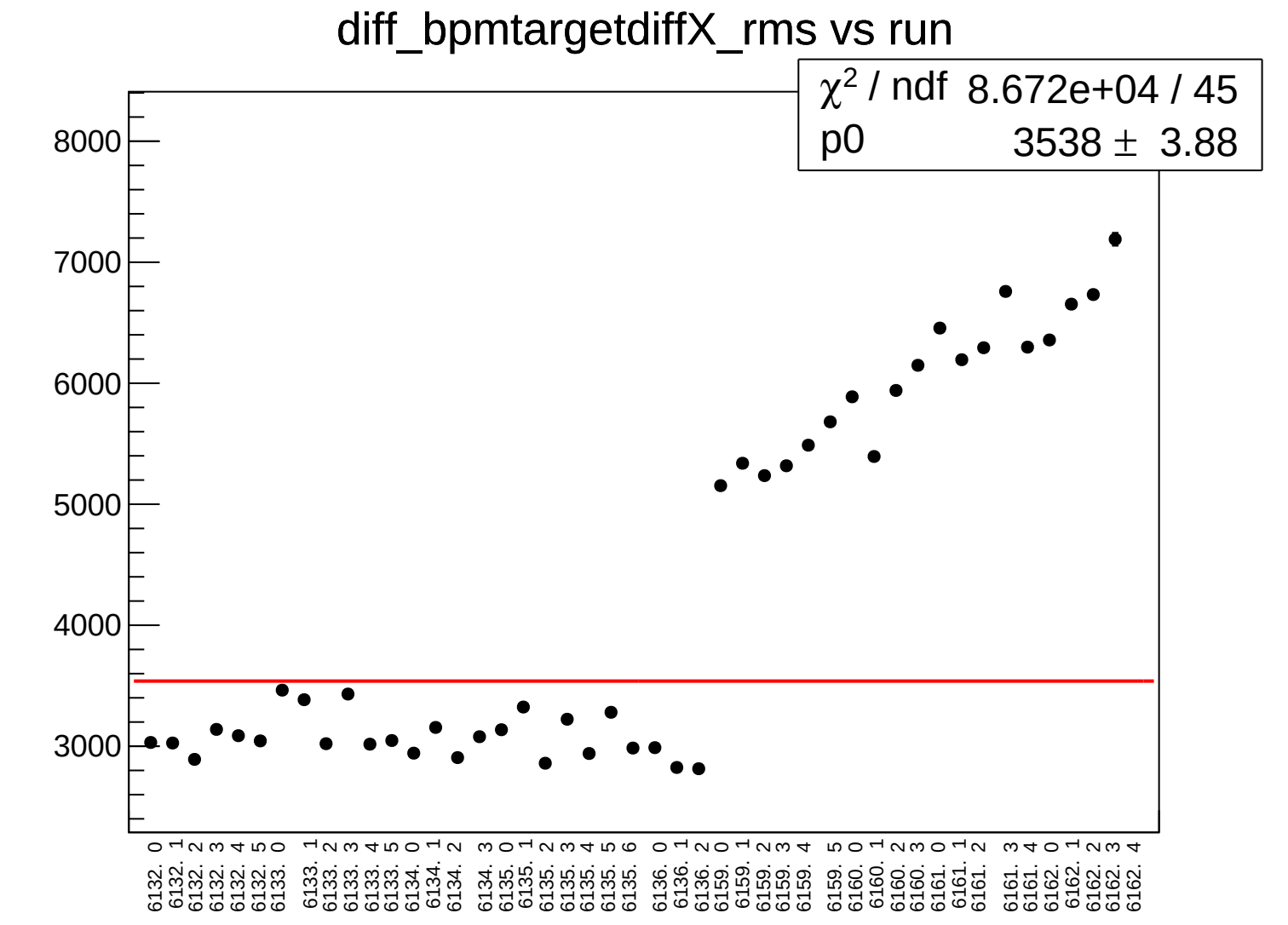

diff_bpmtargetsumX_mean vs run
χ² / ndf 51.35 / 45
p0 −7.136 ± 38.36
1000
500
0
−500
−1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 95.77
Std Dev 0
2
1
0
−1
−2

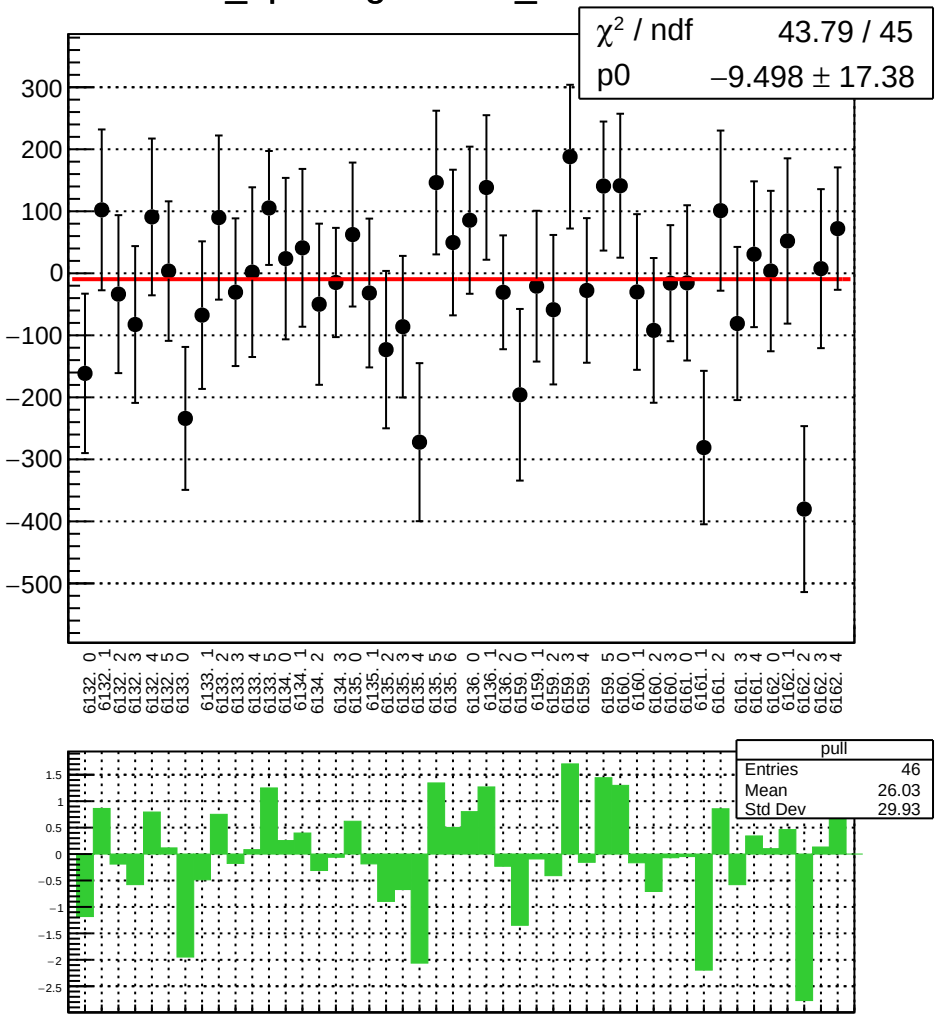

pull1D
Entries 46
Mean 0.04692
Std Dev 1.056
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

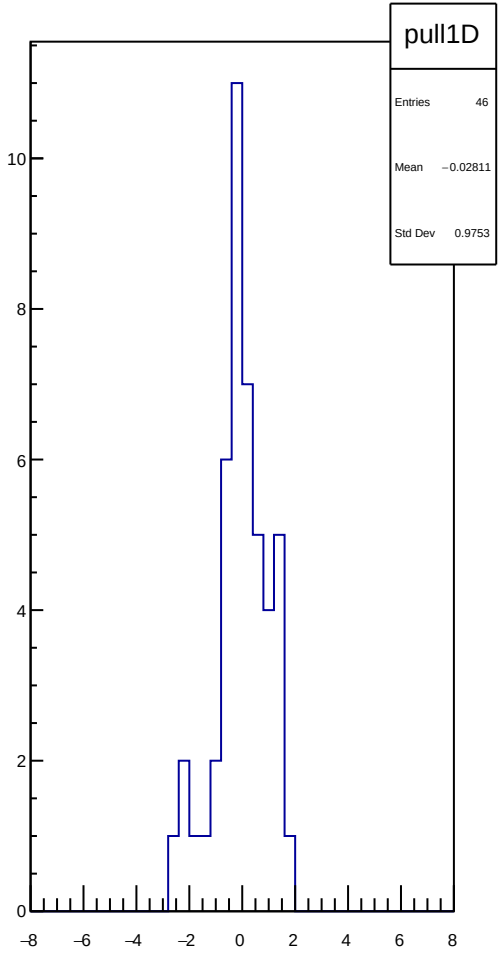

diff_bpmtargetsumX_rms vs run
χ² / ndf 6.745e+04 / 45
p0 2.502e+04 ± 27.12
50000
45000
40000
35000
30000
25000
20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

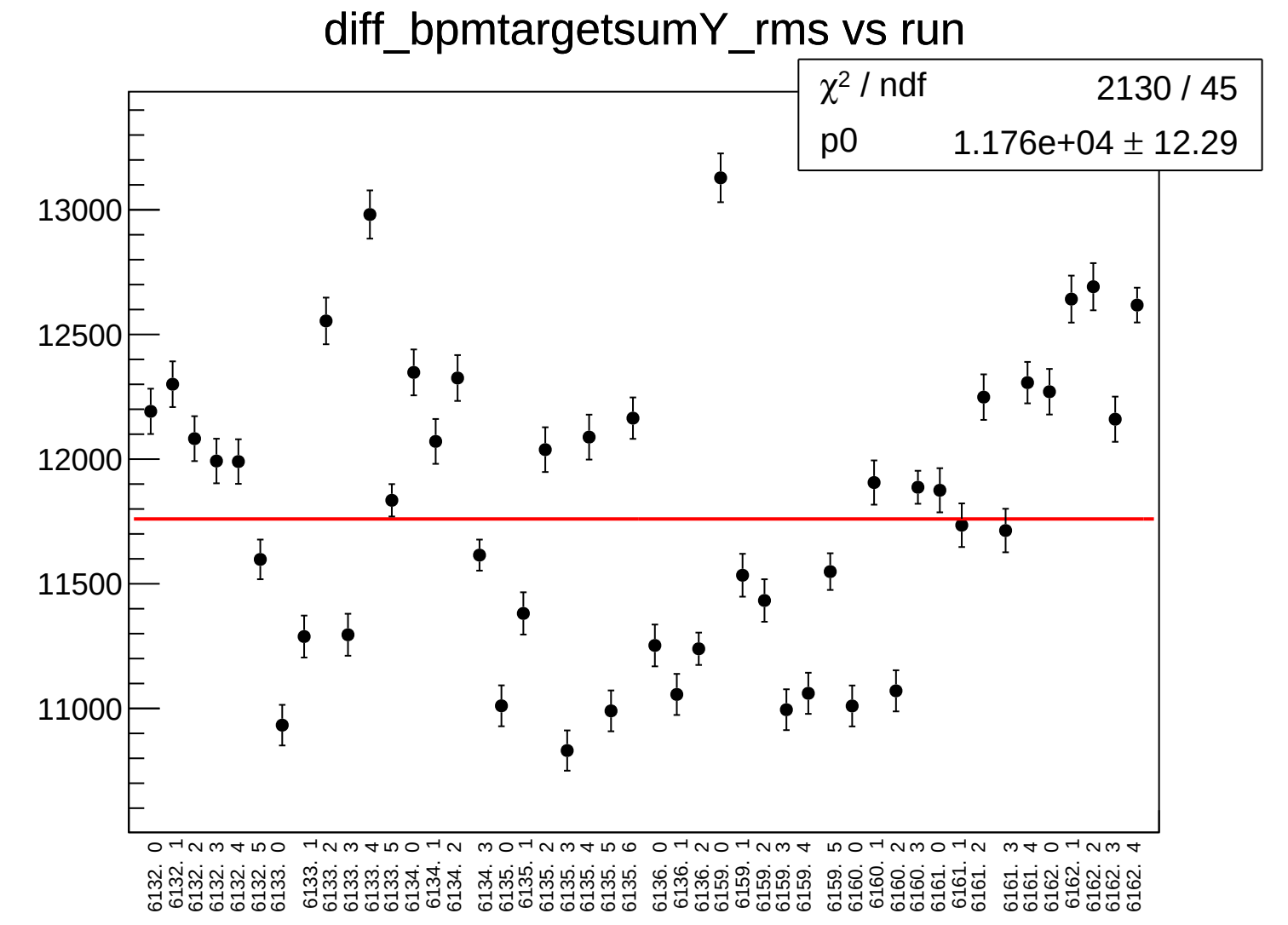

diff_bpmtargetdiffX_mean vs run
χ² / ndf 51.54 / 45
p0 −2.832 ± 5.488
pull
Entries 46
Mean 73.25
Std Dev 0

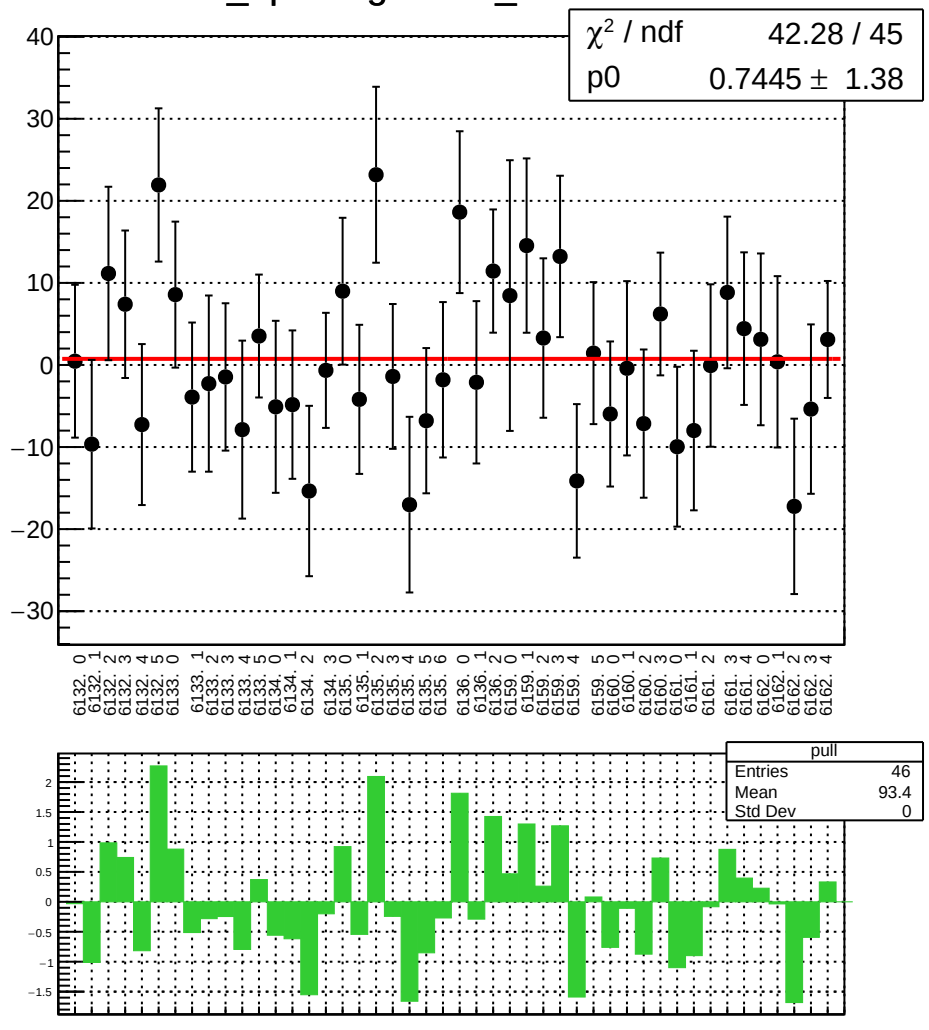

pull1D
Entries 46
Mean 0.06642
Std Dev 1.056

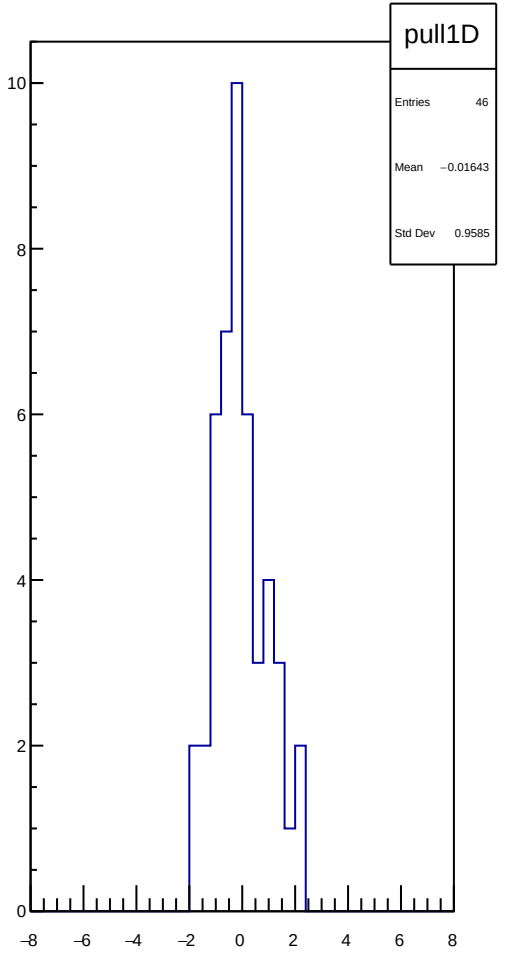

diff_bpmtargetdiffX_rms vs run
χ² / ndf 8.672e+04 / 45
p0 3538 ± 3.88
8000
7000
6000
5000
4000
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

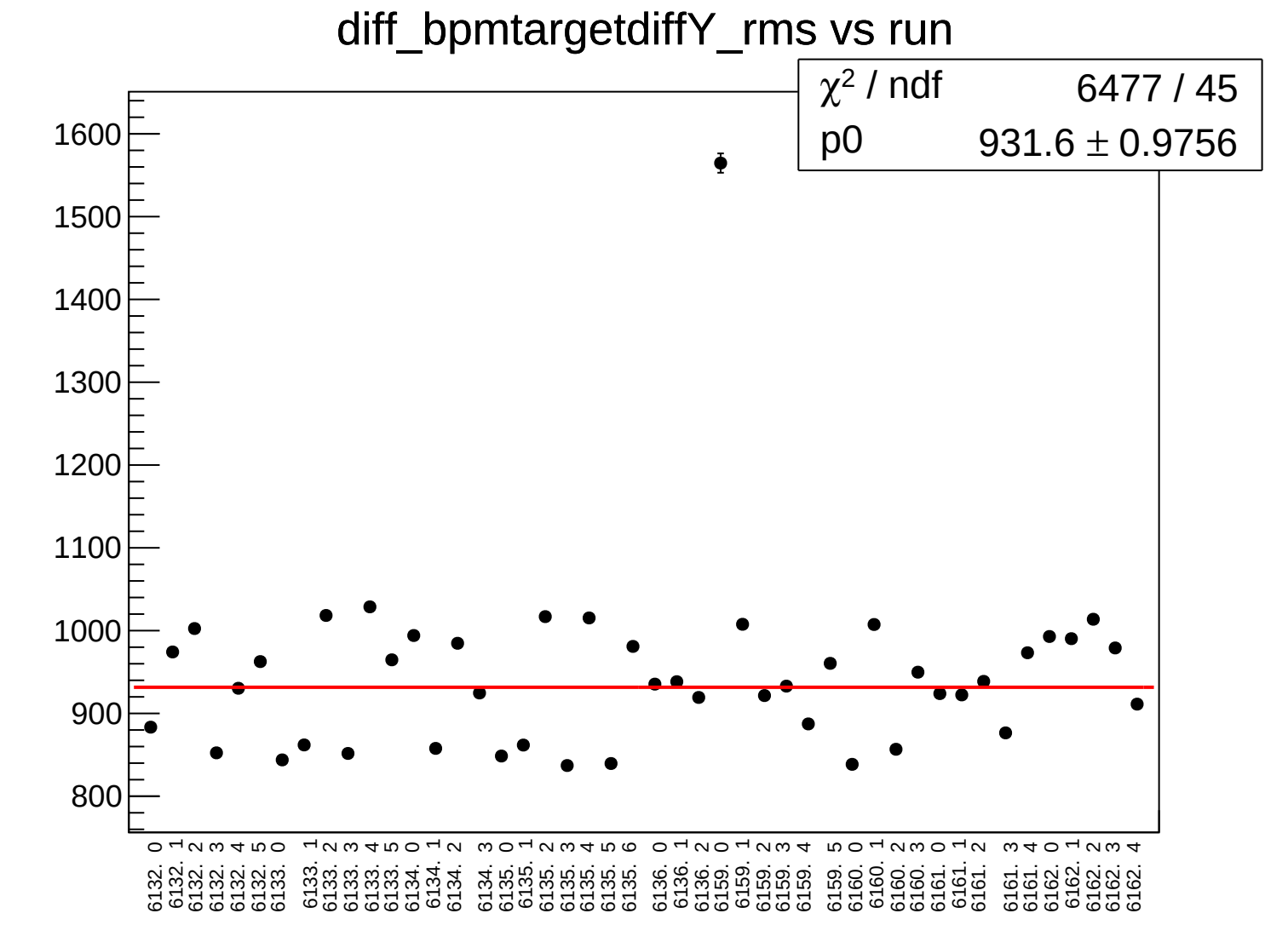

diff_bpmtargetsumY_mean vs run
χ² / ndf 43.79 / 45
p0 −9.498 ± 17.38
pull
Entries 46
Mean 26.03
Std Dev 29.93

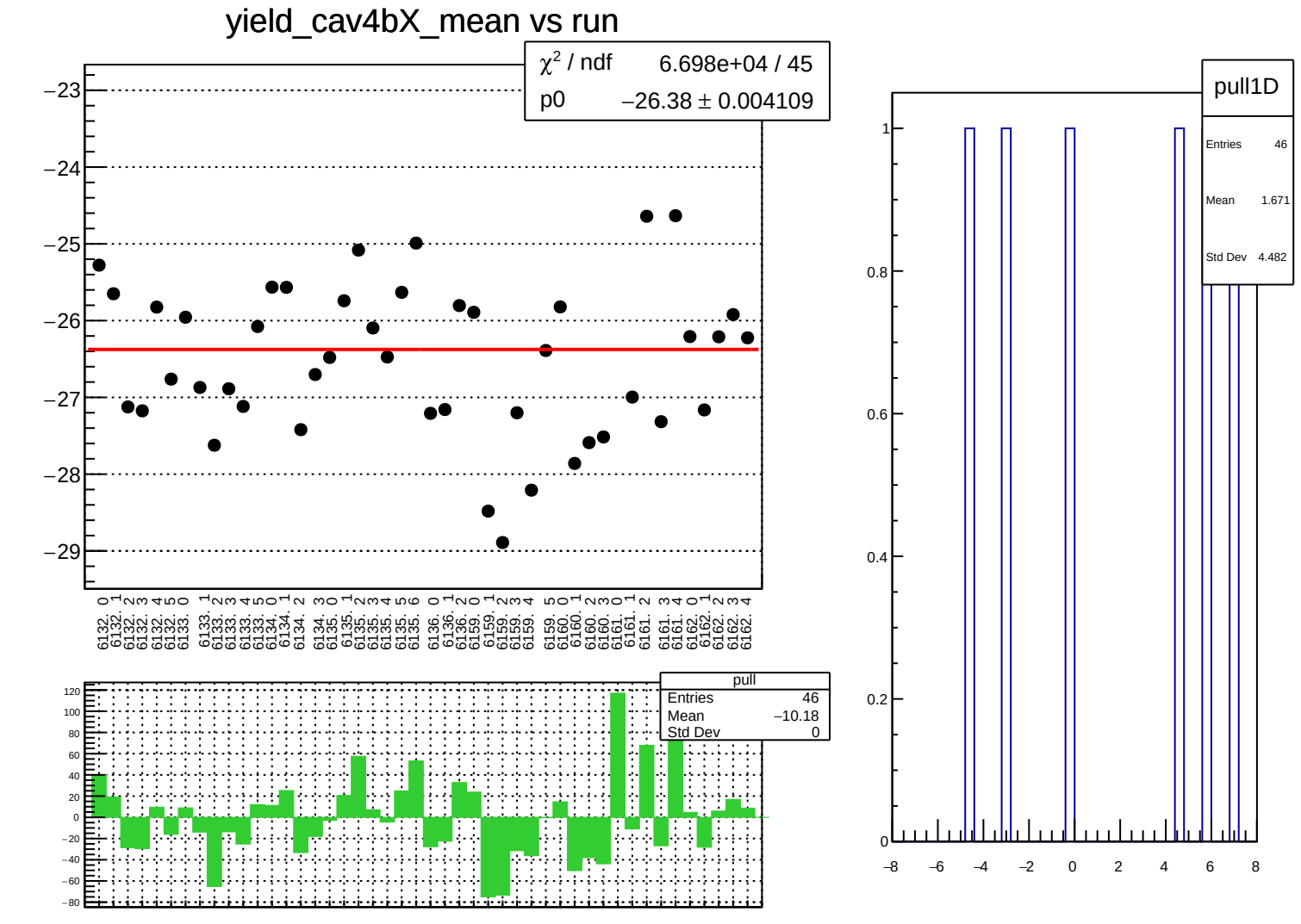

pull1D
Entries 46
Mean −0.02811
Std Dev 0.9753

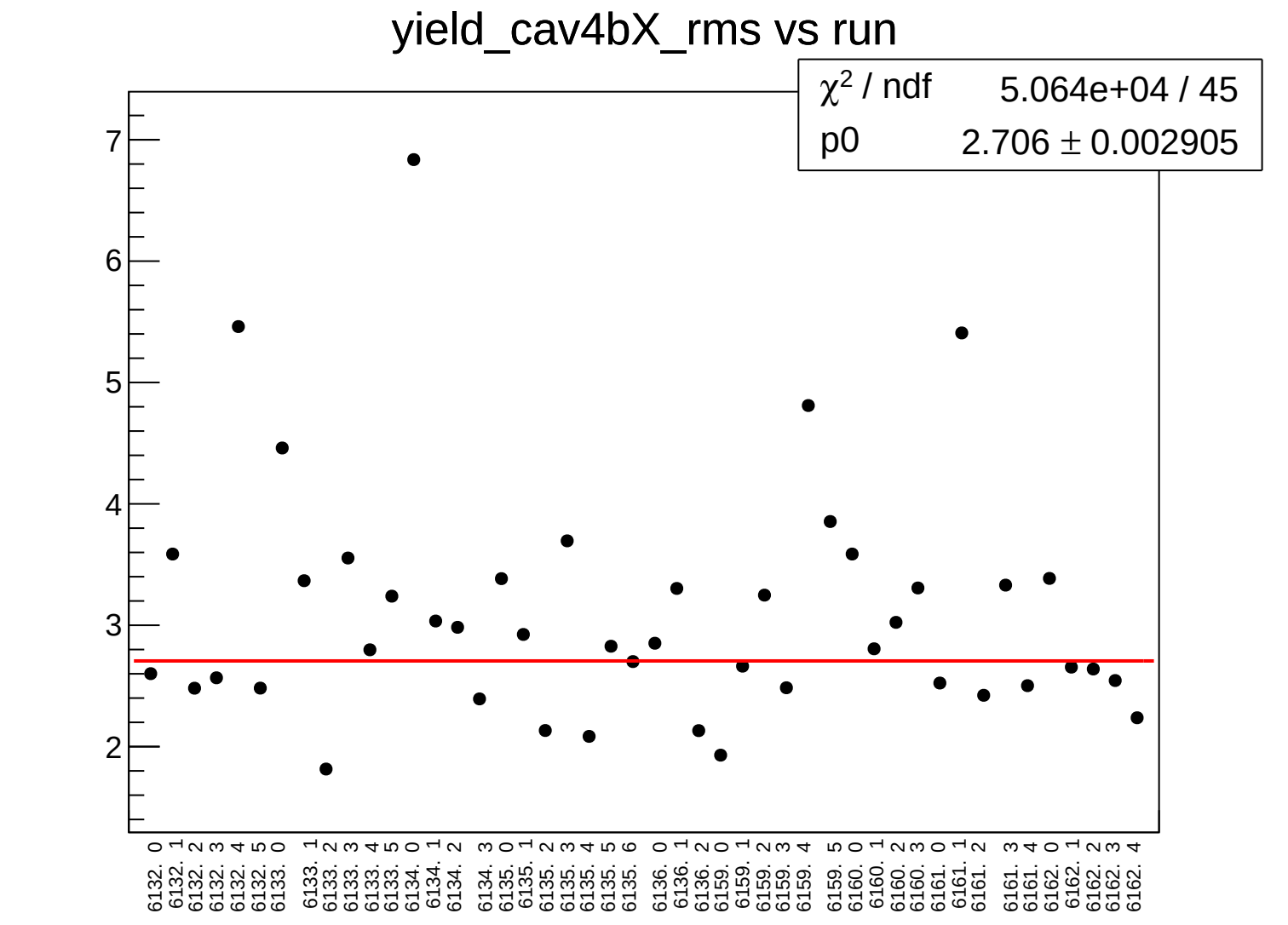

diff_bpmtargetsumY_rms vs run
χ² / ndf 2130 / 45
p0 1.176e+04 ± 12.29
13000
12500
12000
11500
11000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

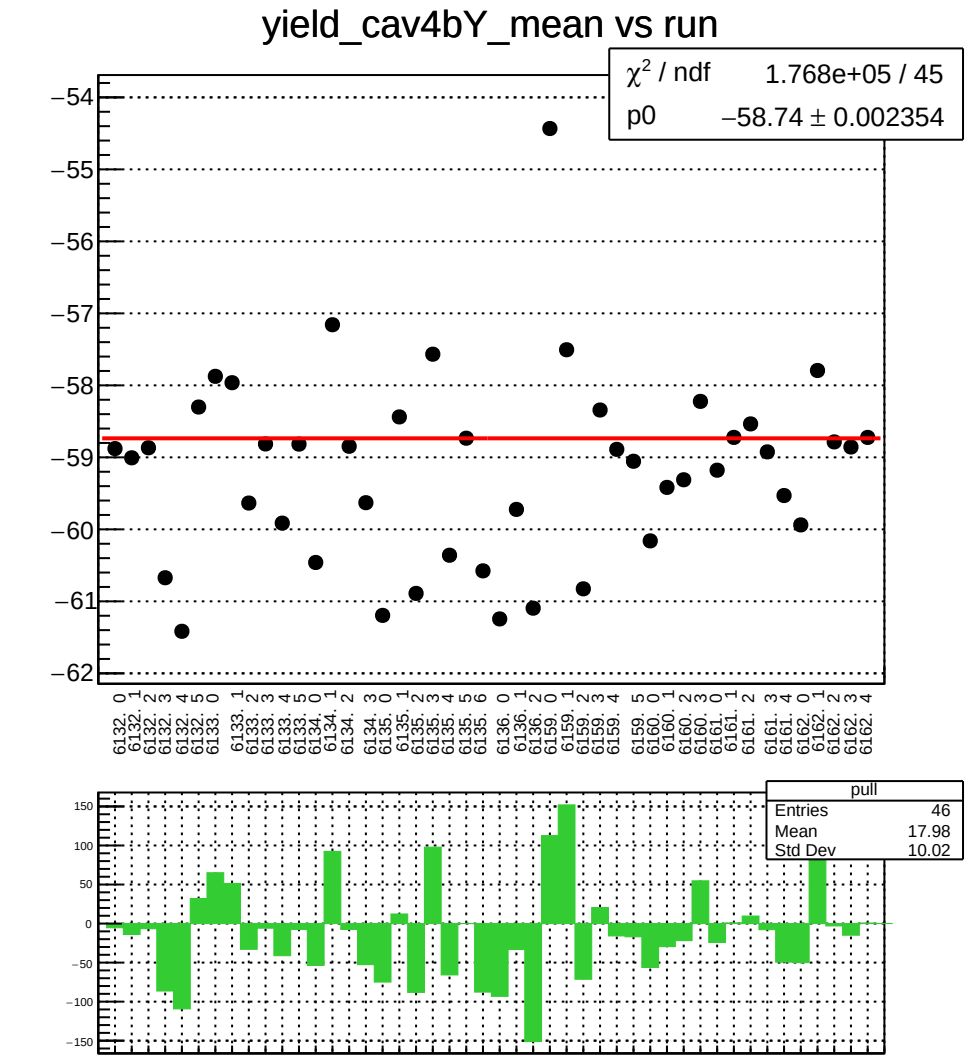

diff_bpmtargetdiffY_mean vs run
χ² / ndf 42.28 / 45
p0 0.7445 ± 1.38
pull
Entries 46
Mean 93.4
Std Dev 0

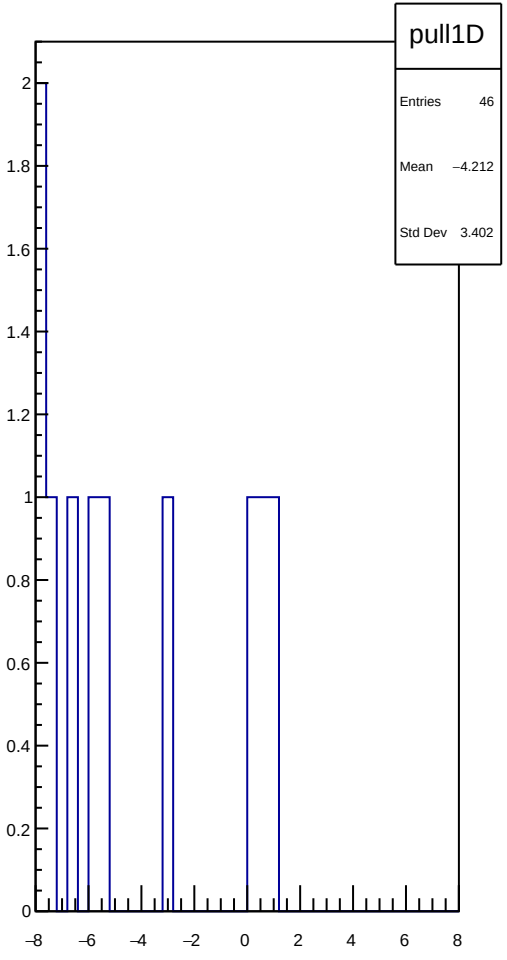

pull1D
Entries 46
Mean −0.01643
Std Dev 0.9585

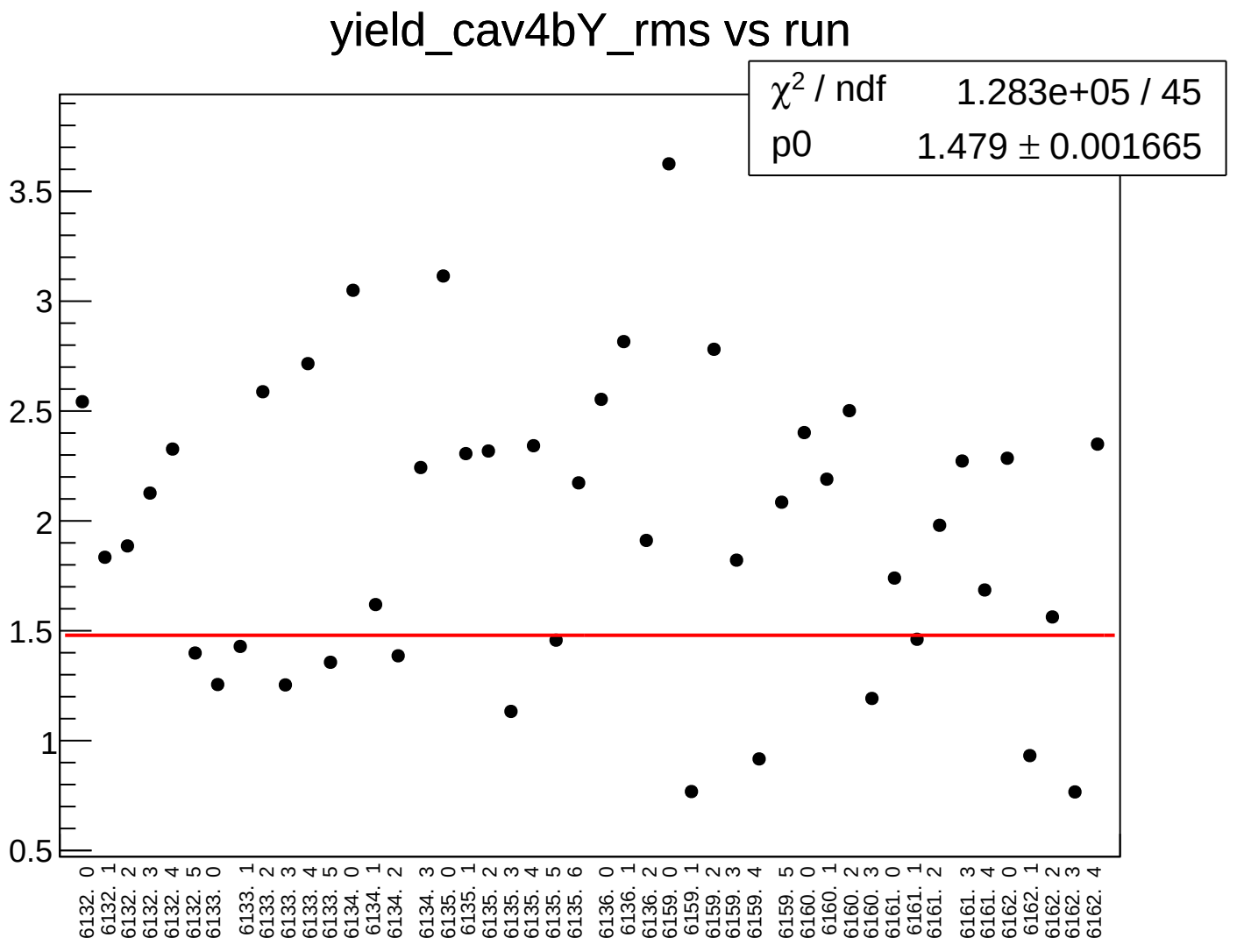

diff_bpmtargetdiffY_rms vs run
χ² / ndf 6477 / 45
p0 931.6 ± 0.9756
1600
1500
1400
1300
1200
1100
1000
900
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

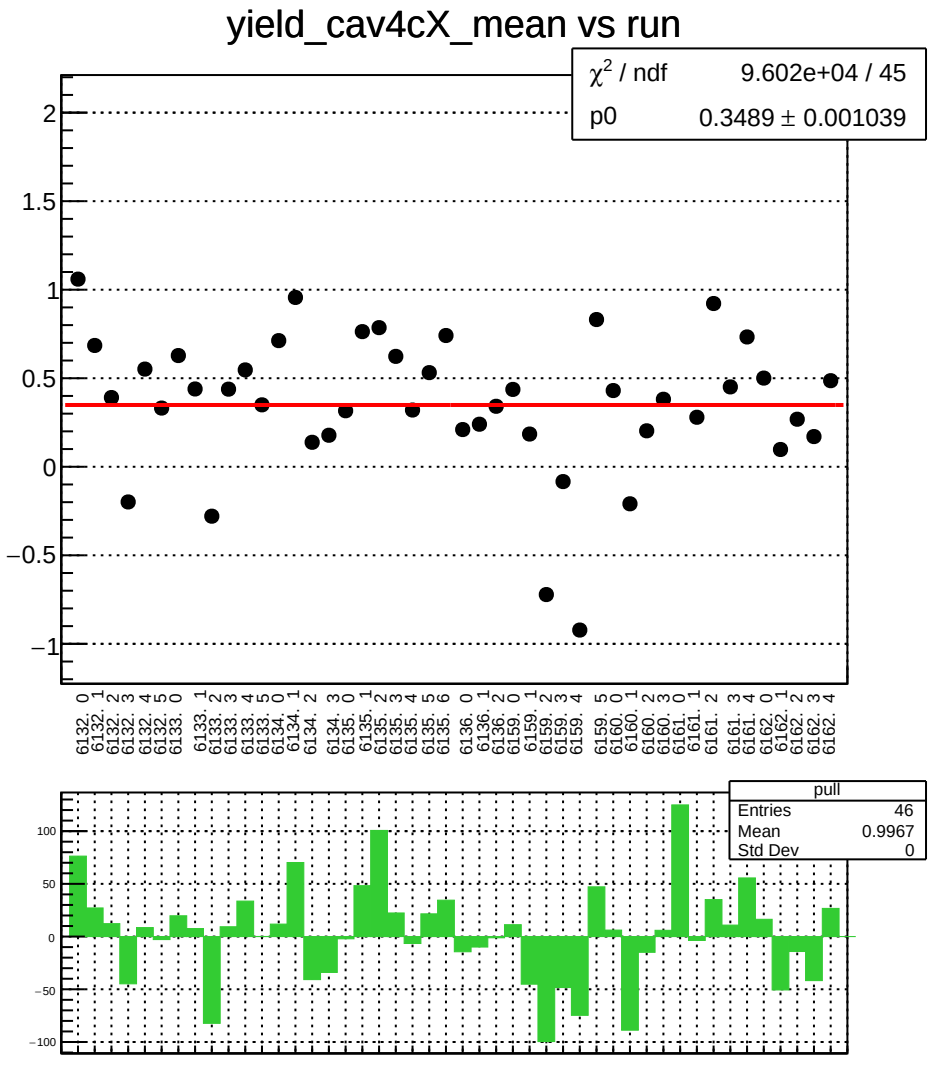

yield_cav4bX_mean vs run
χ² / ndf 6.698e+04 / 45
p0 −26.38 ± 0.004109
pull
Entries 46
Mean −10.18
Std Dev 0
pull1D
Entries 46
Mean 1.671
Std Dev 4.482

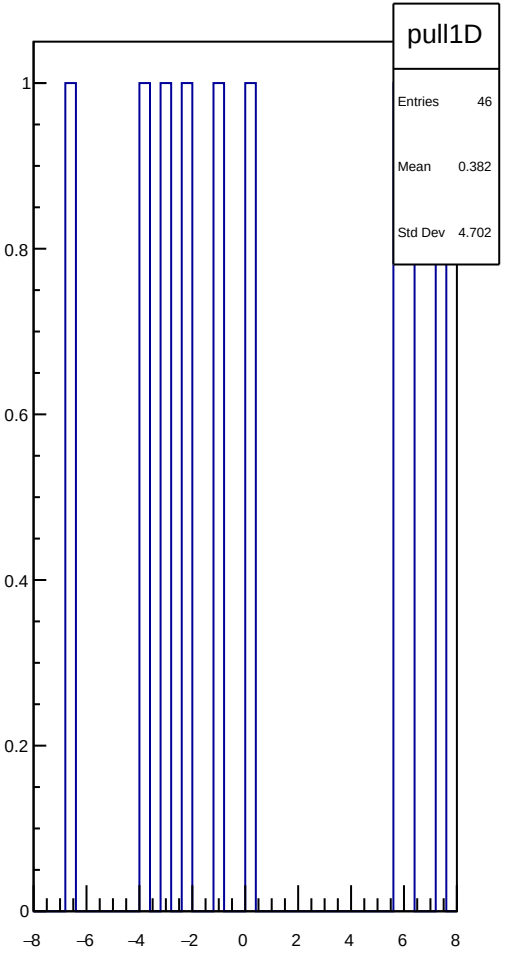

yield_cav4bX_rms vs run
χ^2 / ndf 5.064e+04 / 45
p0 2.706 ± 0.002905
7
6
5
4
3
2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

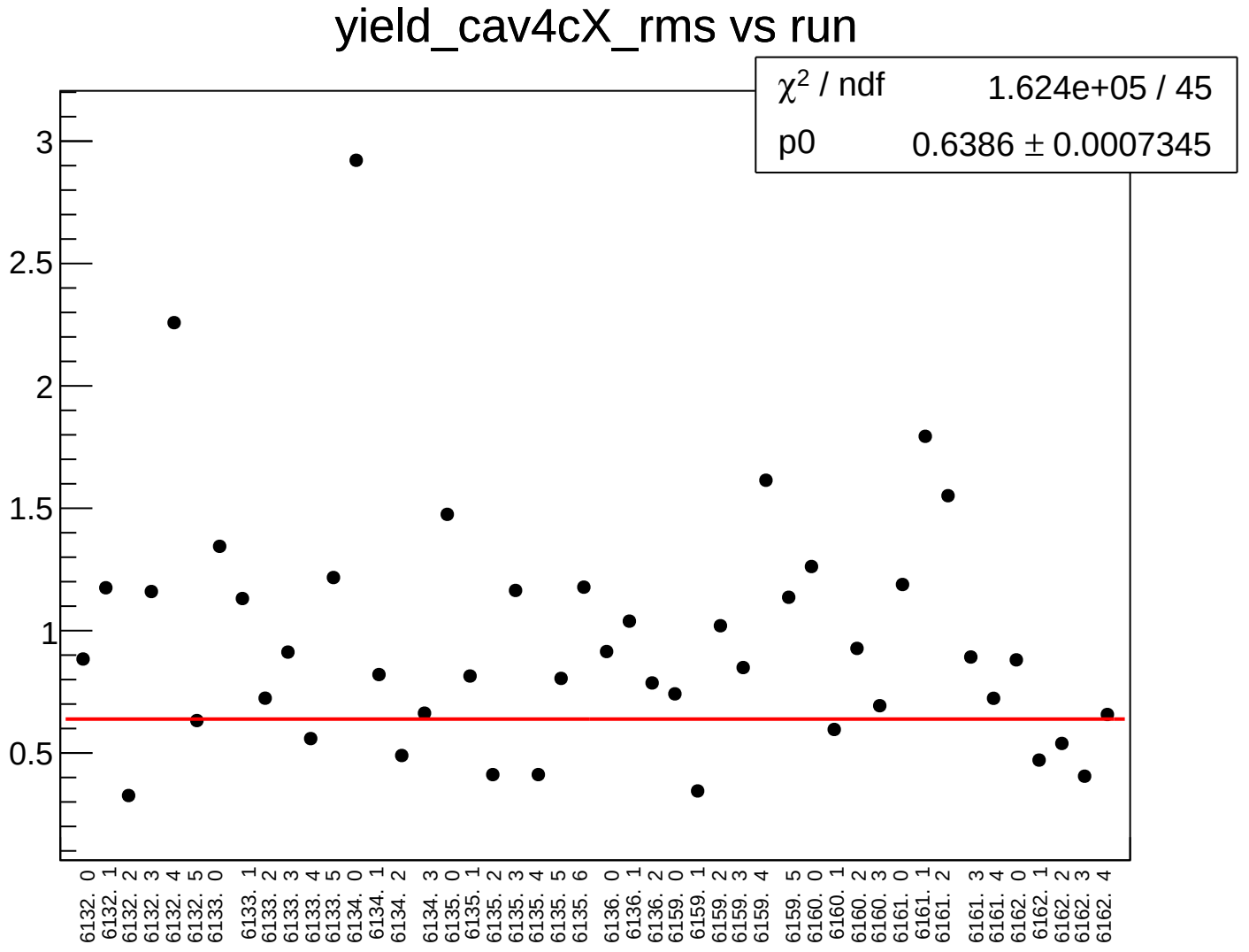

yield_cav4bY_mean vs run
χ² / ndf 1.768e+05 / 45
p0 −58.74 ± 0.002354
pull
Entries 46
Mean 17.98
Std Dev 10.02

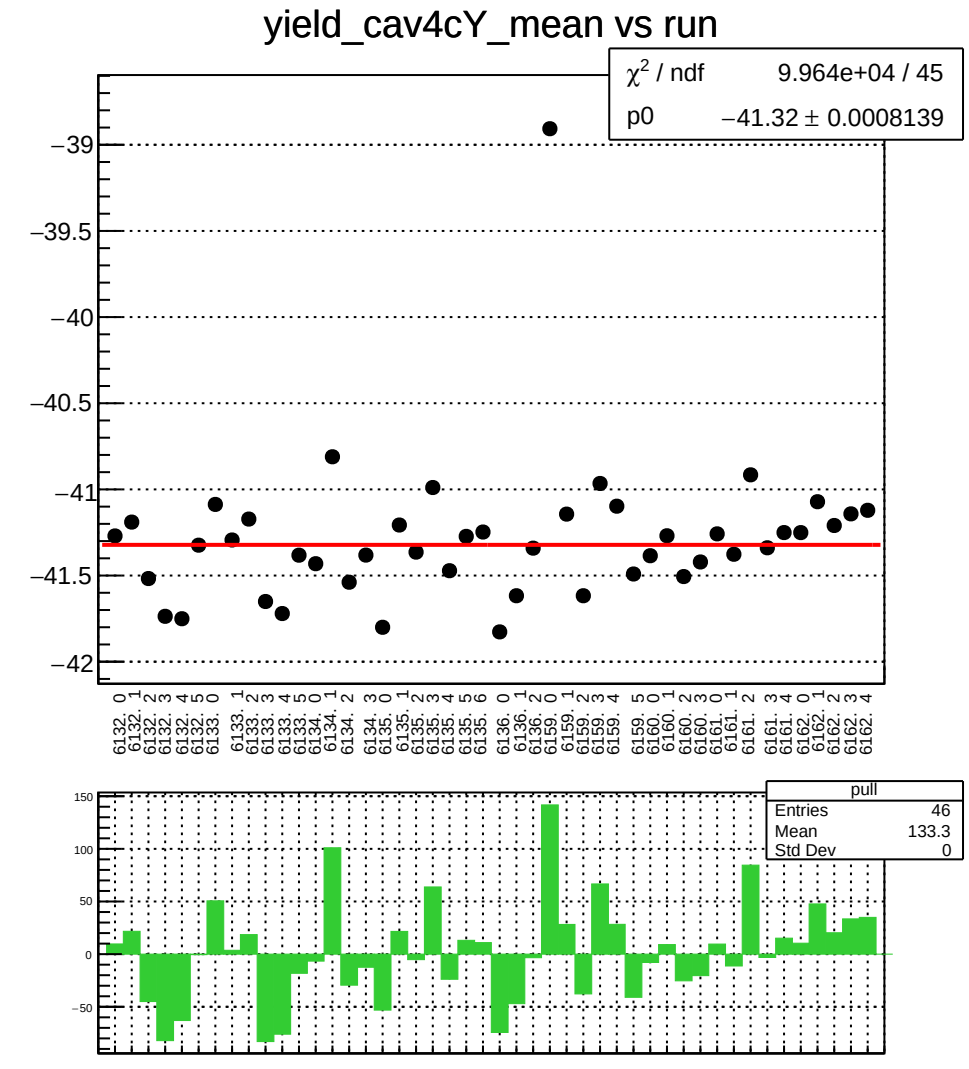

pull1D
Entries 46
Mean −4.212
Std Dev 3.402

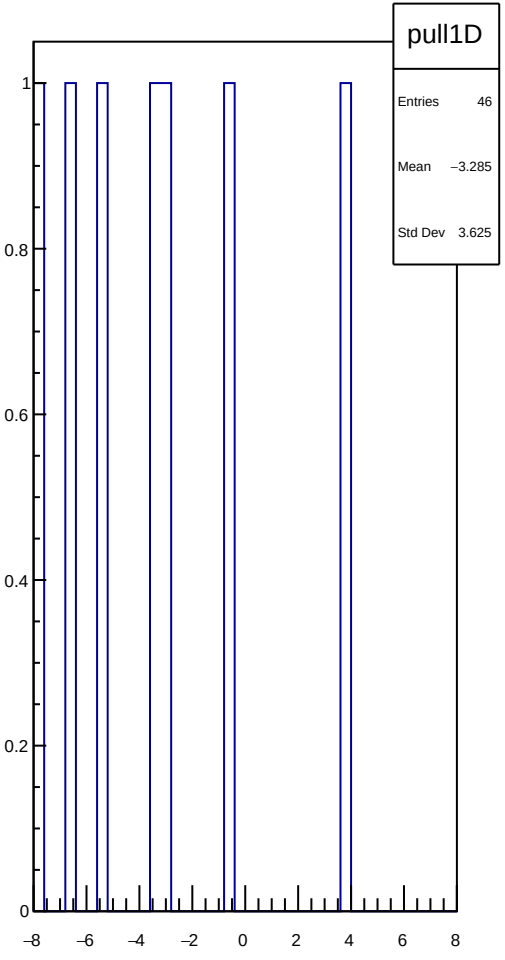

yield_cav4bY_rms vs run
χ^2 / ndf 1.283e+05 / 45
p0 1.479 ± 0.001665
3.5
3
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

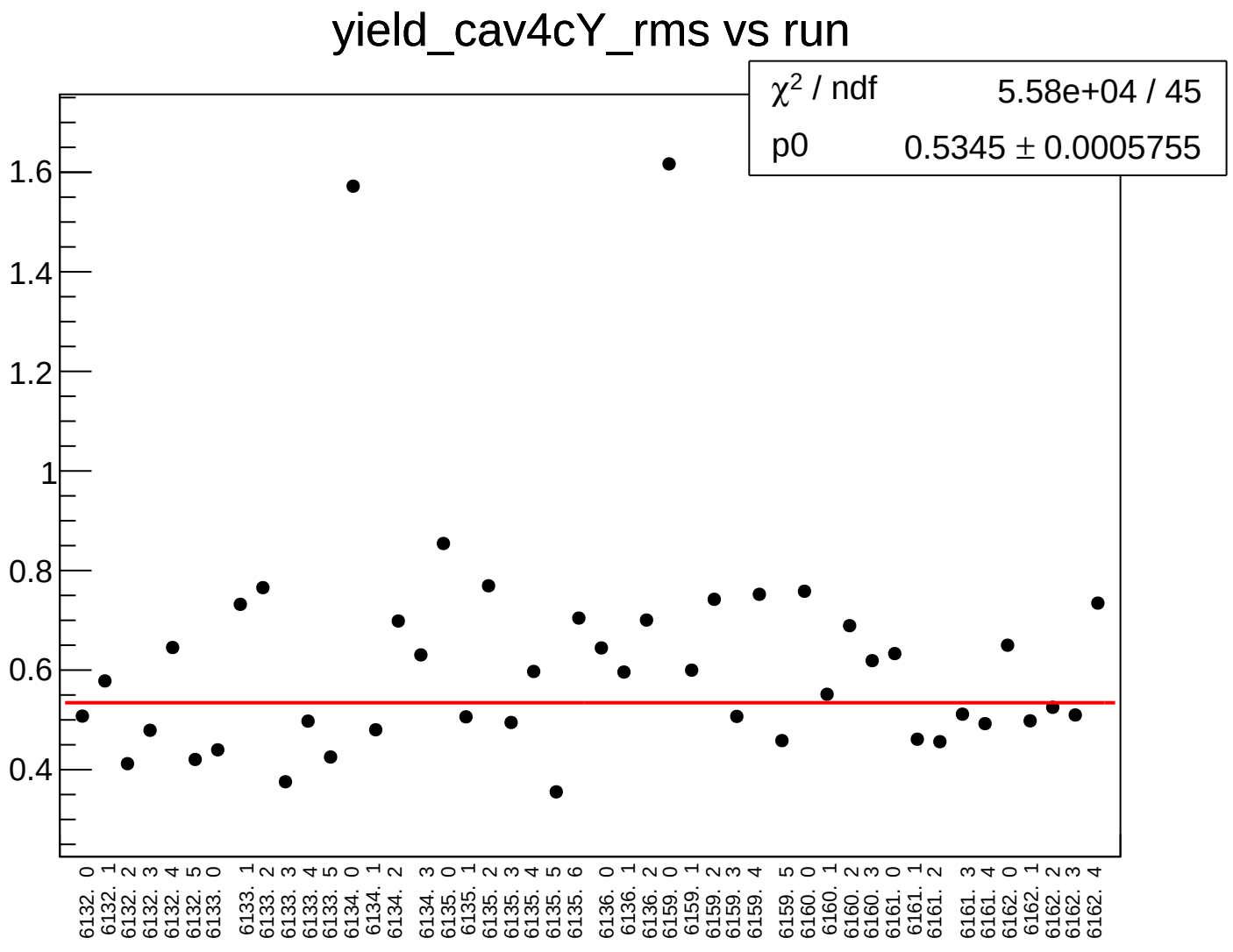

yield_cav4cX_mean vs run
χ² / ndf 9.602e+04 / 45
p0 0.3489 ± 0.001039
pull
Entries 46
Mean 0.9967
Std Dev 0

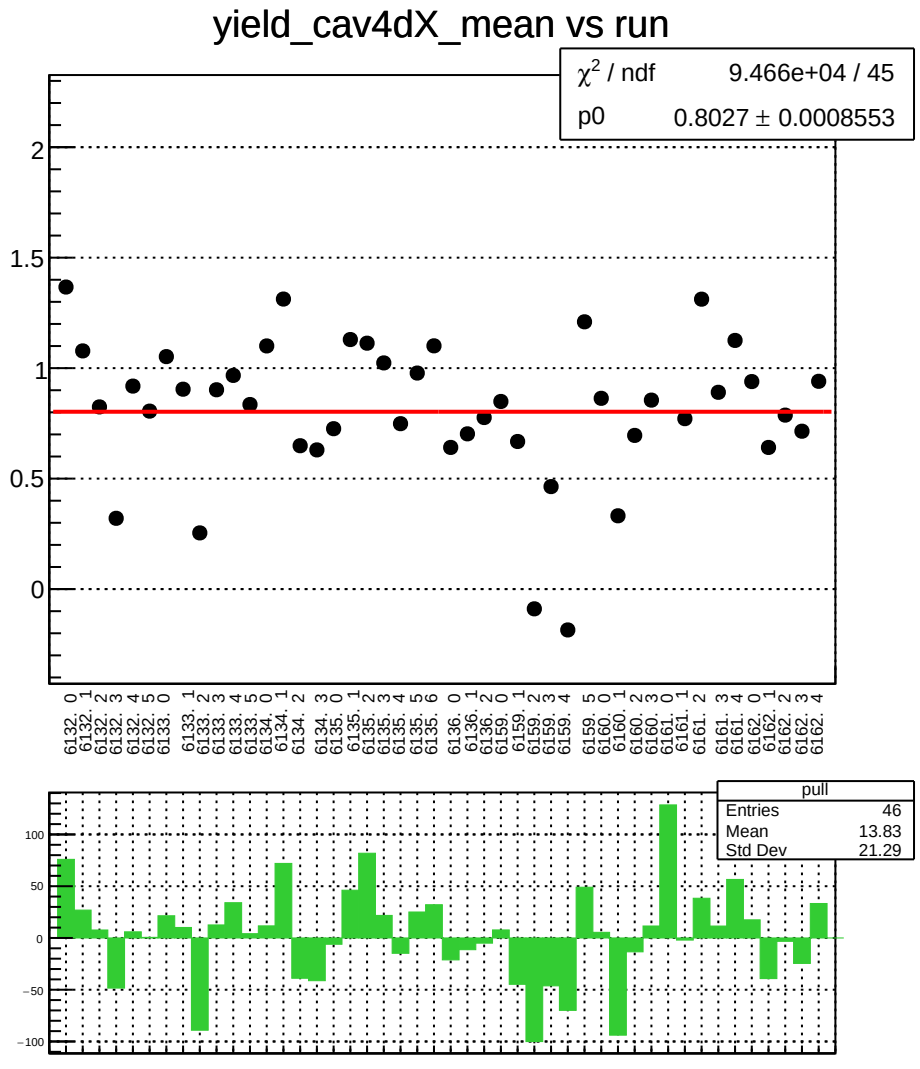

pull1D
Entries 46
Mean 0.382
Std Dev 4.702

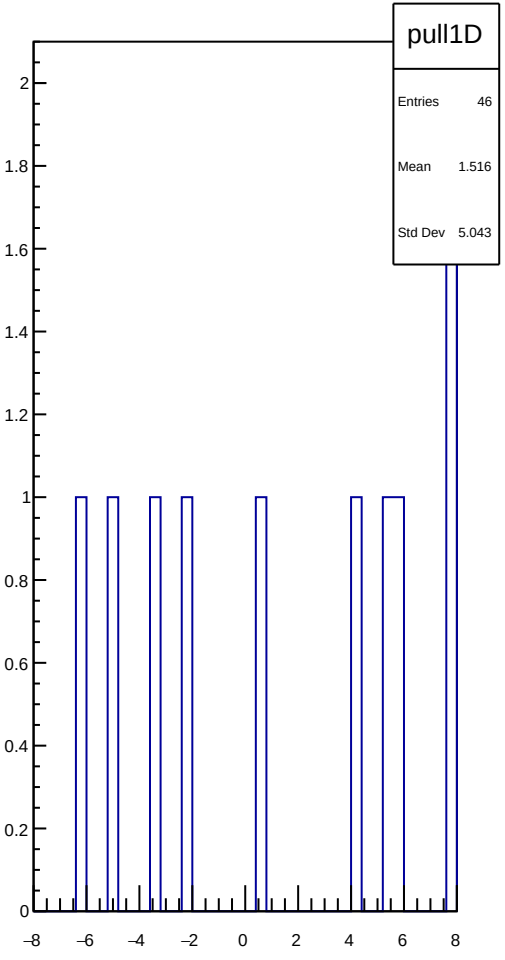

yield_cav4cX_rms vs run
χ² / ndf 1.624e+05 / 45
p0 0.6386 ± 0.0007345
3
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

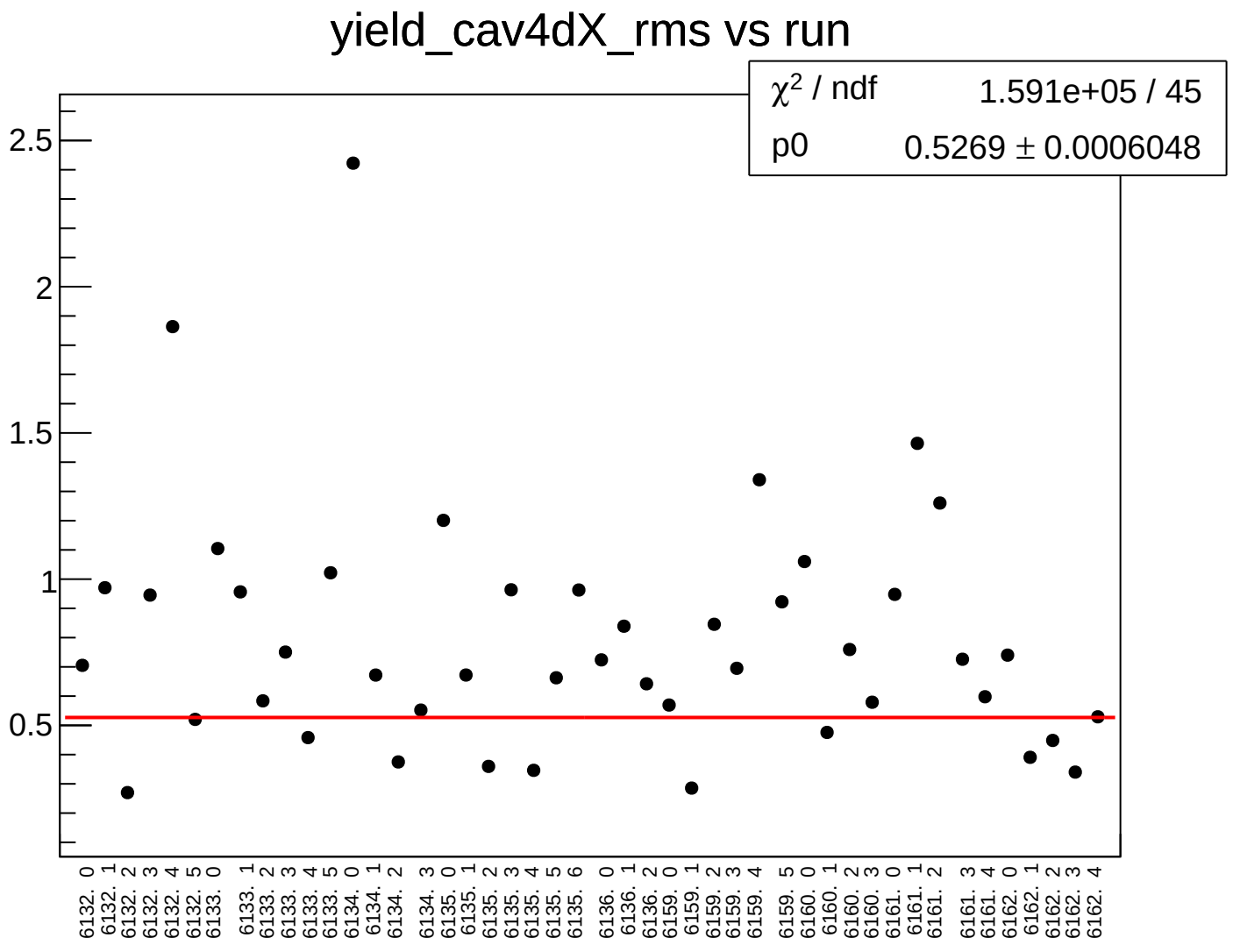

yield_cav4cY_mean vs run
χ² / ndf 9.964e+04 / 45
p0 −41.32 ± 0.0008139
−39
−39.5
−40
−40.5
−41
−41.5
−42
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 133.3
Std Dev 0
150
100
50
0
−50

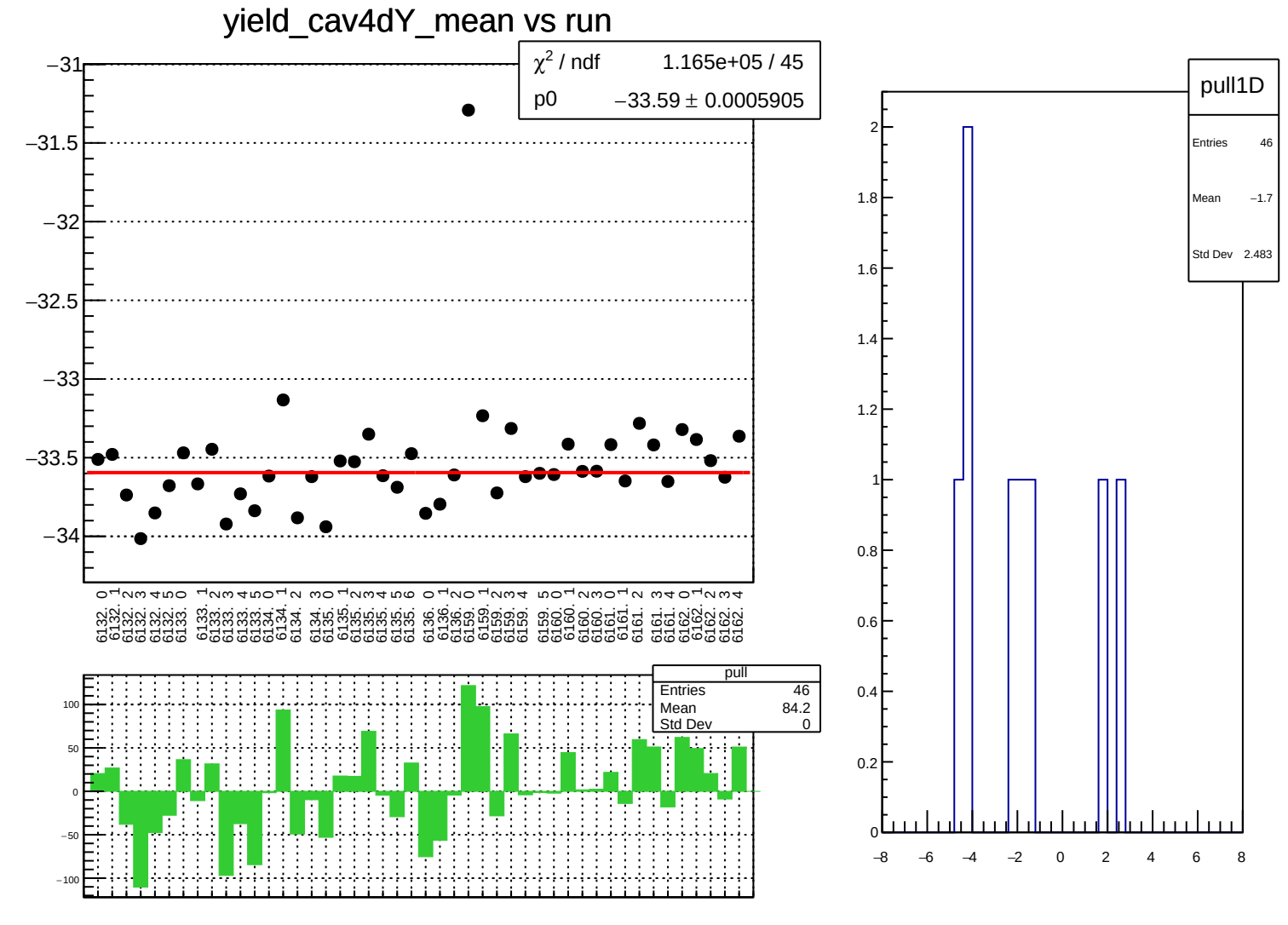

pull1D
Entries 46
Mean −3.285
Std Dev 3.625
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

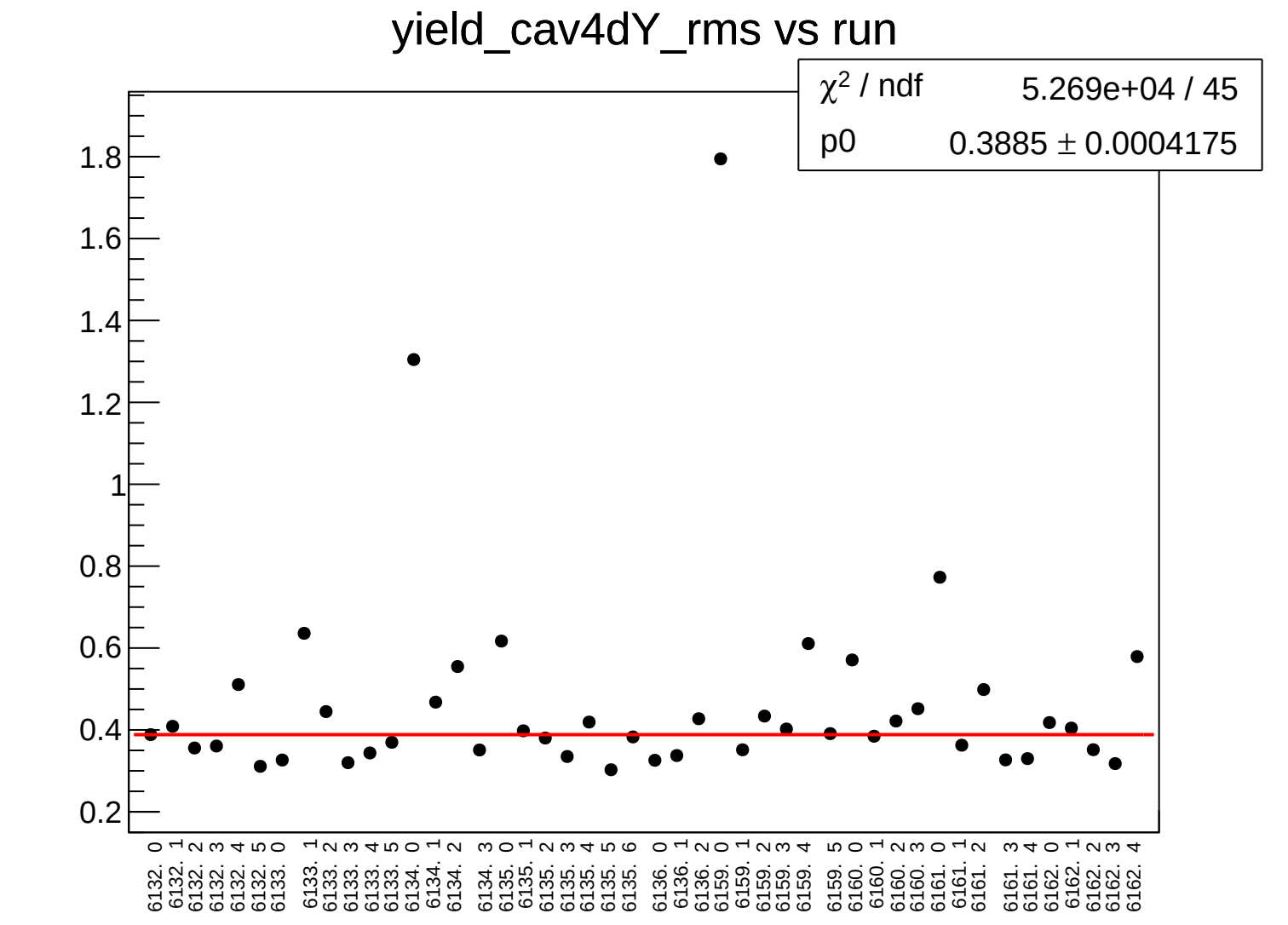

yield_cav4cY_rms vs run
χ² / ndf 5.58e+04 / 45
p0 0.5345 ± 0.0005755
1.6
1.4
1.2
1
0.8
0.6
0.4
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

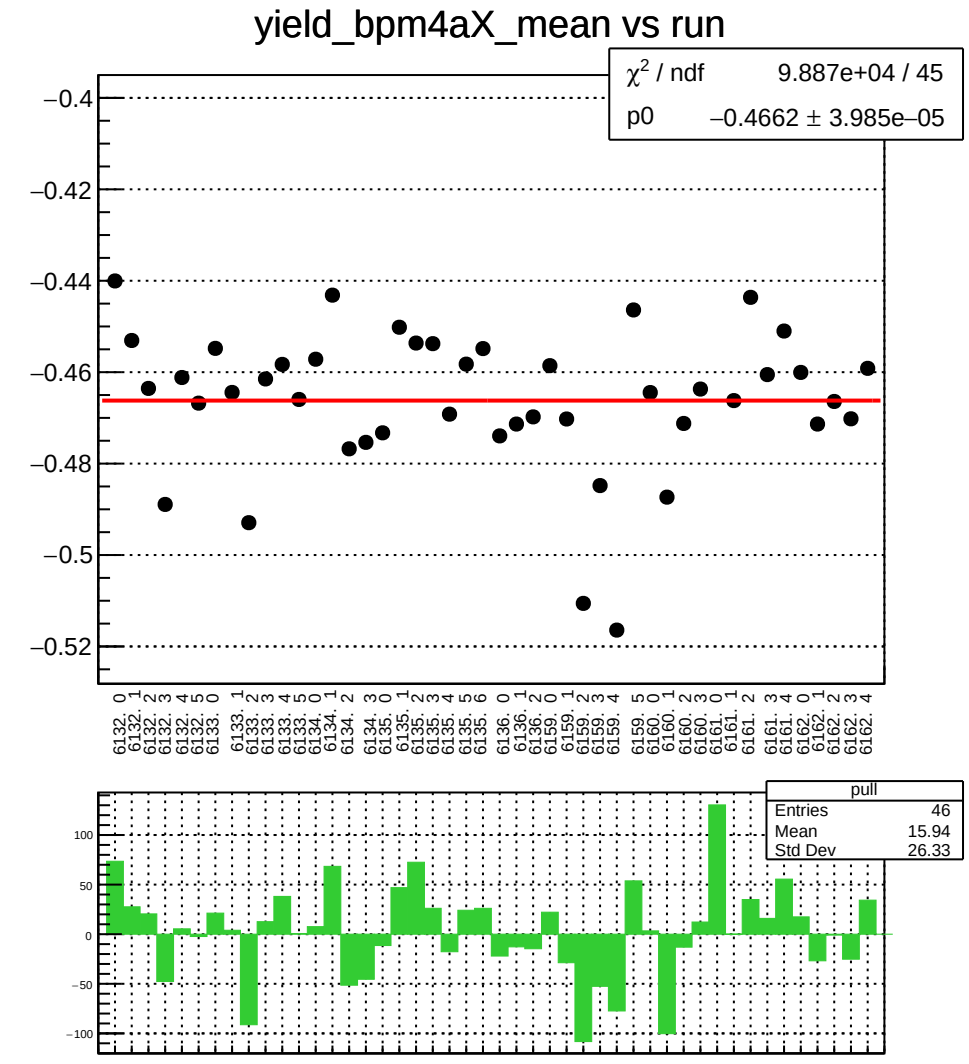

yield_cav4dX_mean vs run
χ² / ndf 9.466e+04 / 45
p0 0.8027 ± 0.0008553
2
1.5
1
0.5
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 13.83
Std Dev 21.29
100
50
0
−50
−100

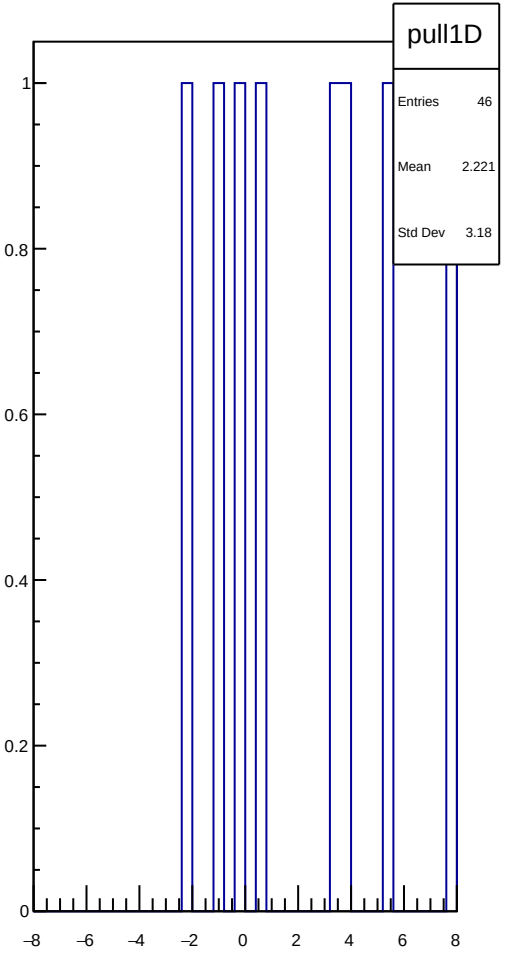

pull1D
Entries 46
Mean 1.516
Std Dev 5.043
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

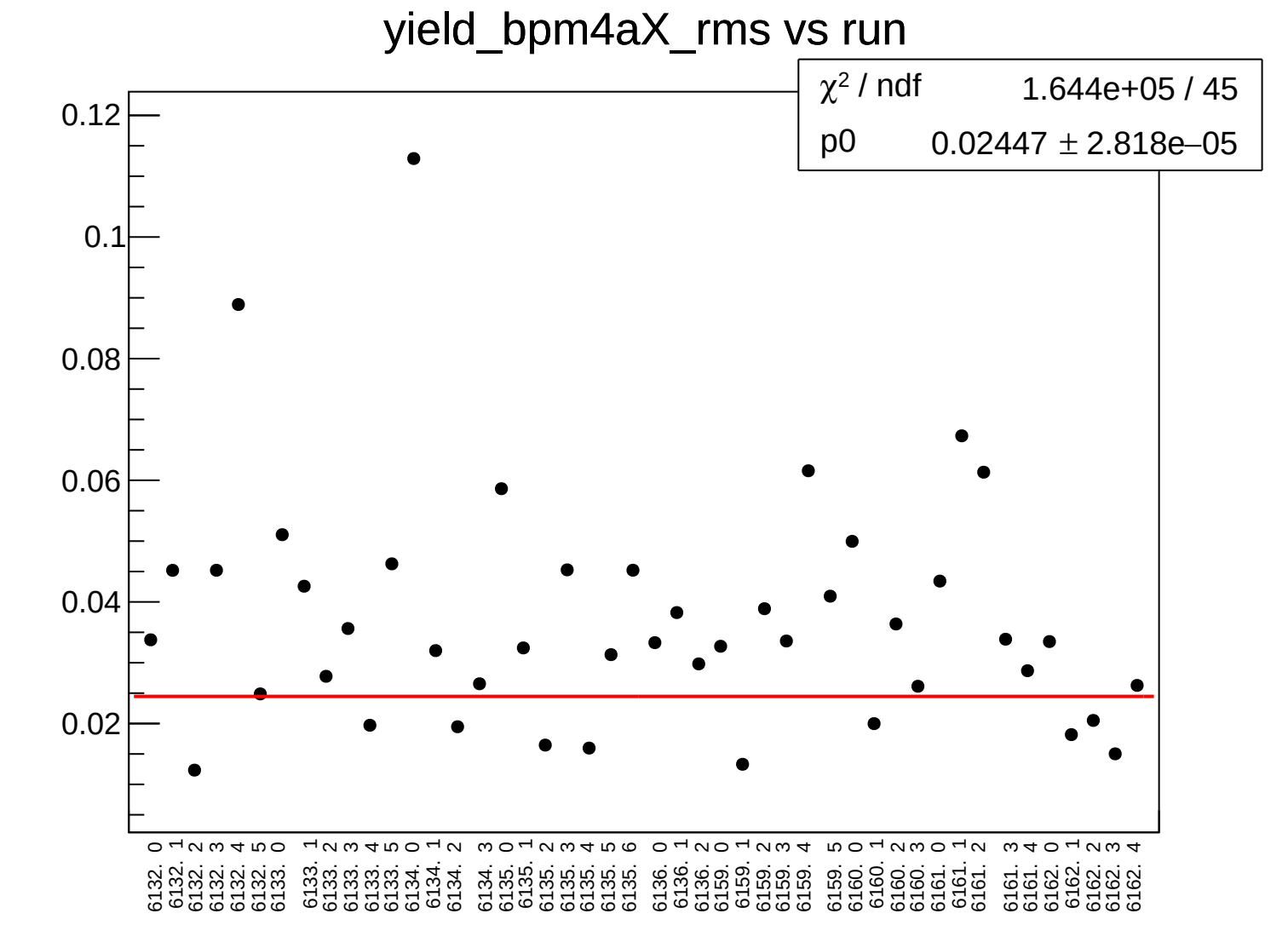

yield_cav4dX_rms vs run
χ² / ndf 1.591e+05 / 45
p0 0.5269 ± 0.0006048
2.5
2
1.5
1
0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

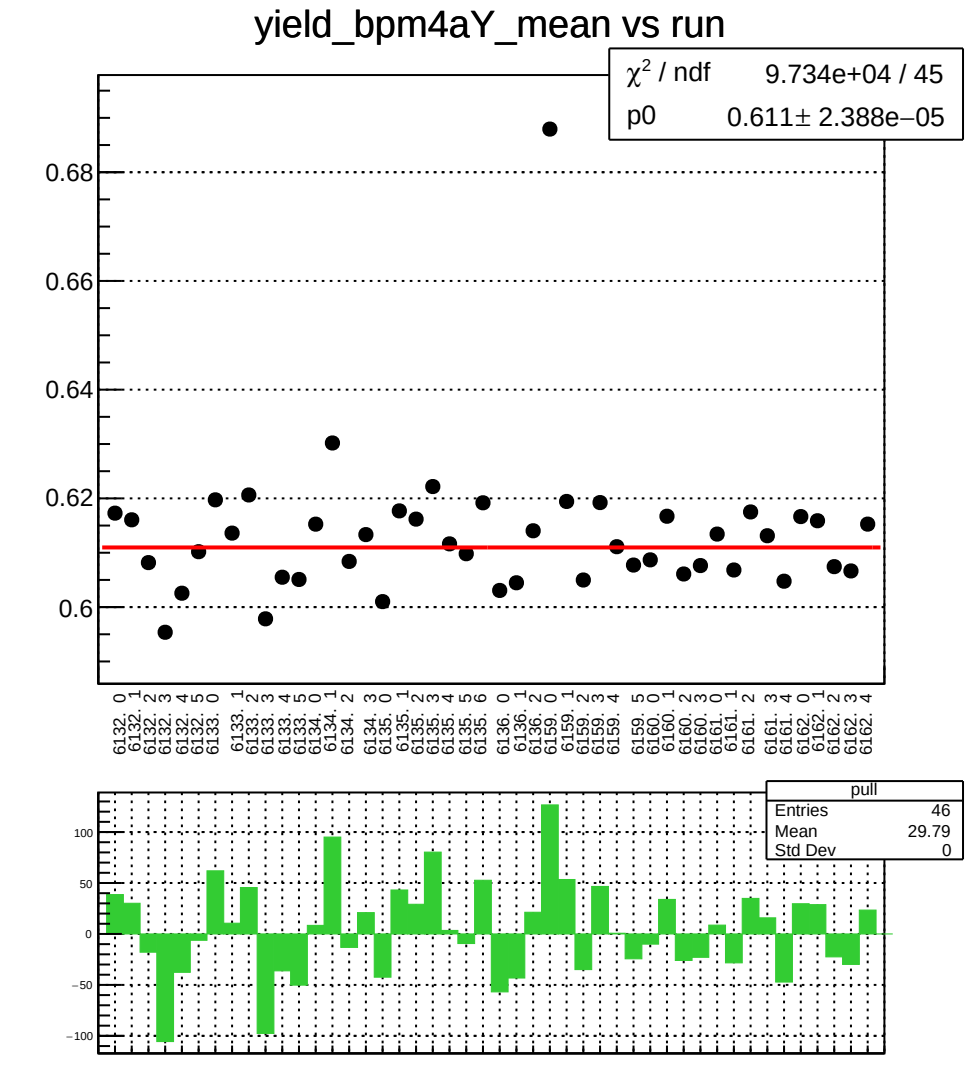

yield_cav4dY_mean vs run
χ² / ndf 1.165e+05 / 45
p0 −33.59 ± 0.0005905
−31
−31.5
−32
−32.5
−33
−33.5
−34
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 84.2
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 46
Mean −1.7
Std Dev 2.483
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

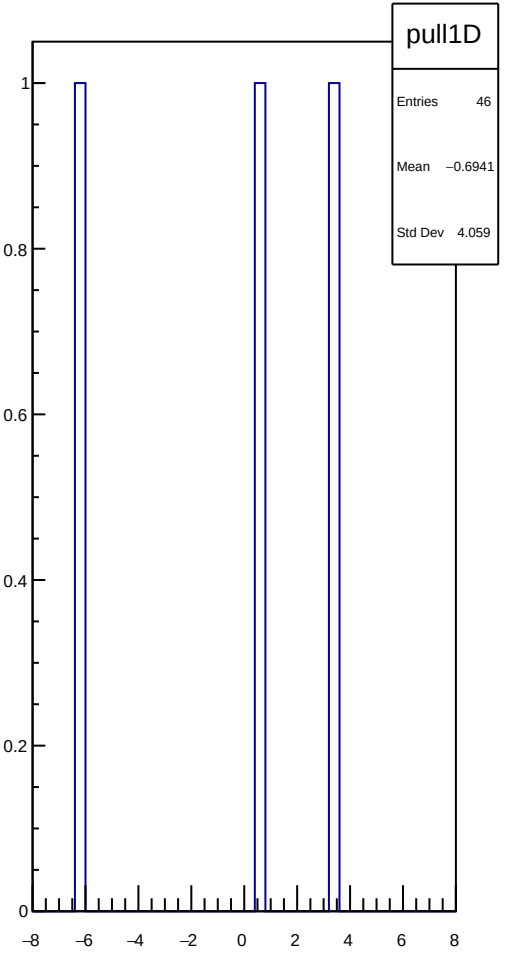

yield_cav4dY_rms vs run
χ² / ndf 5.269e+04 / 45
p0 0.3885 ± 0.0004175
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

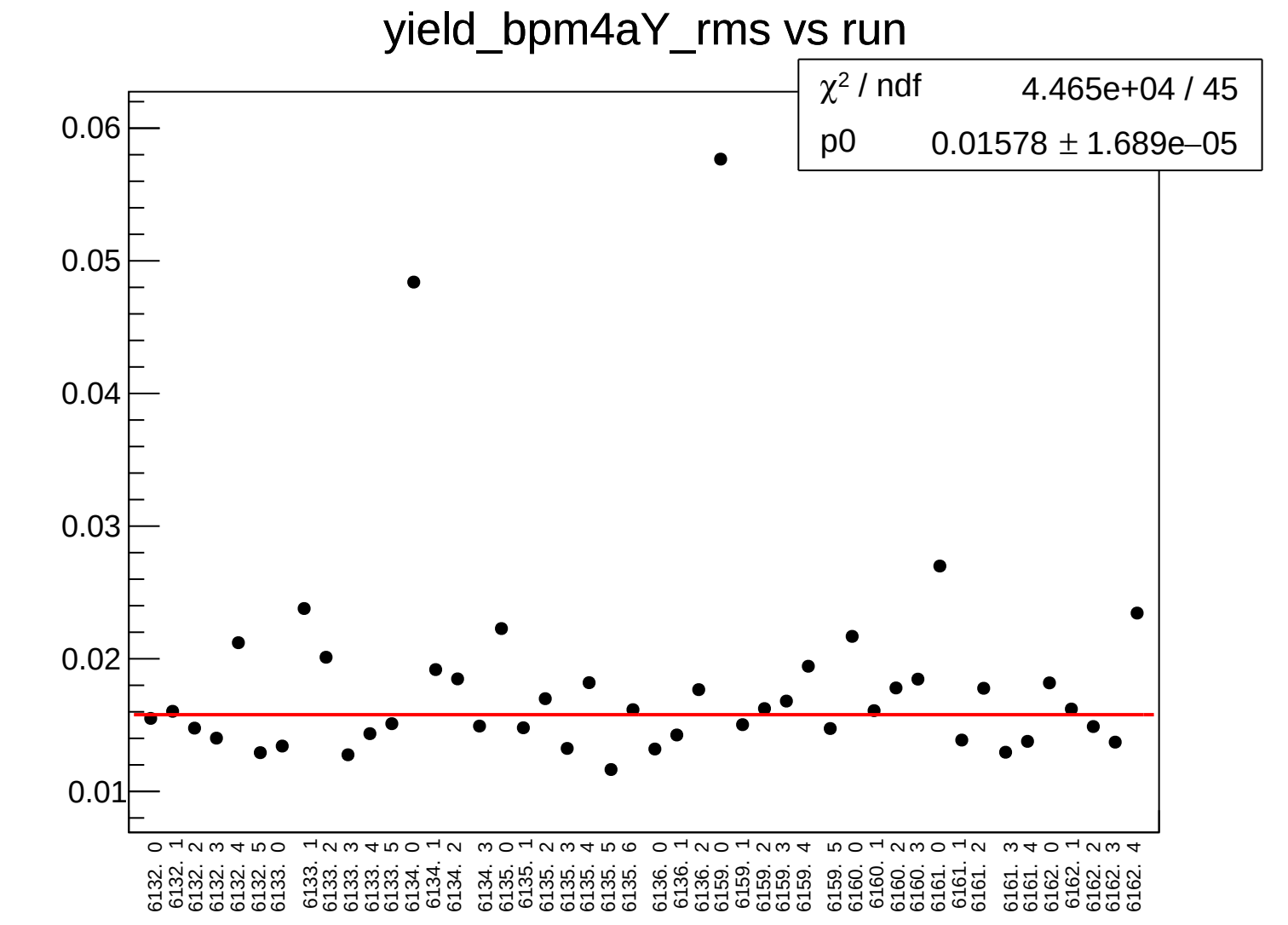

yield_bpm4aX_mean vs run
χ² / ndf 9.887e+04 / 45
p0 −0.4662 ± 3.985e−05
−0.4
−0.42
−0.44
−0.46
−0.48
−0.5
−0.52
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 15.94
Std Dev 26.33
100
50
0
−50
−100

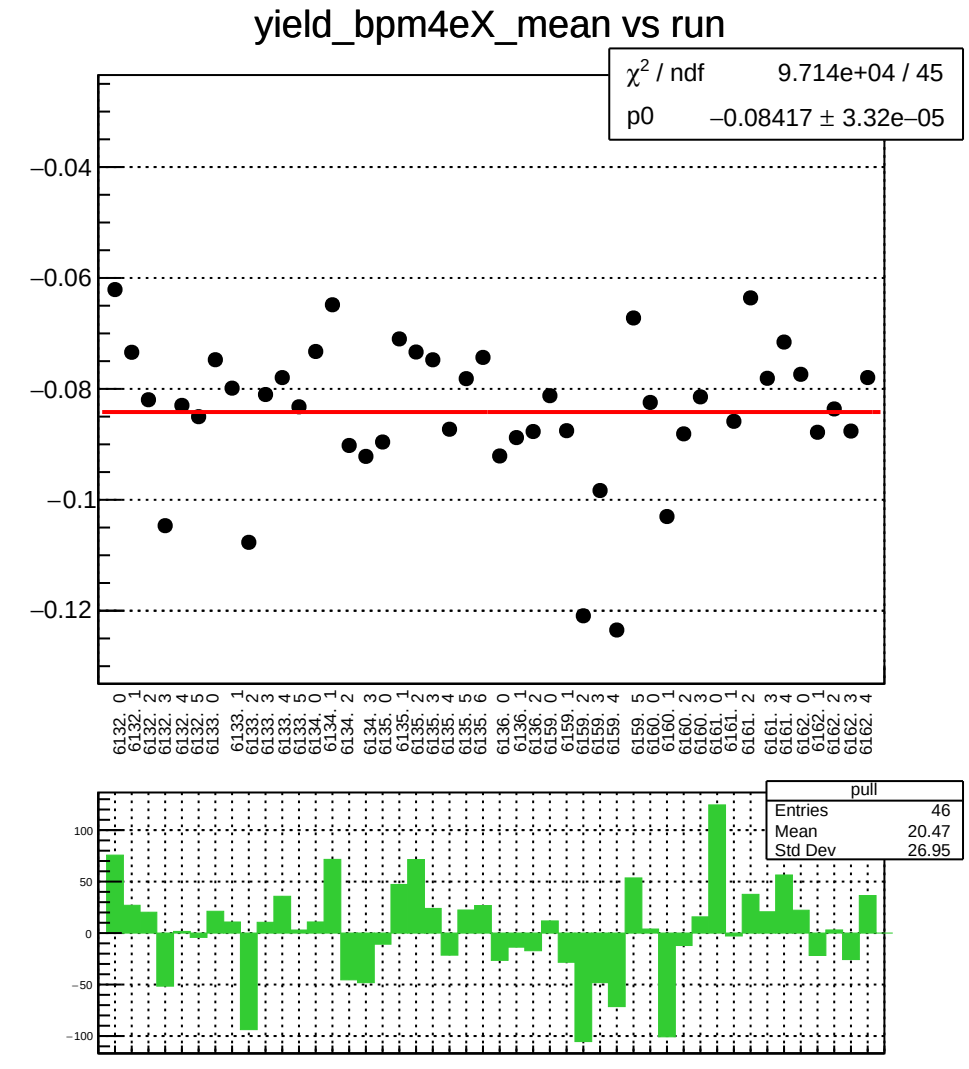

pull1D
Entries 46
Mean 2.221
Std Dev 3.18
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

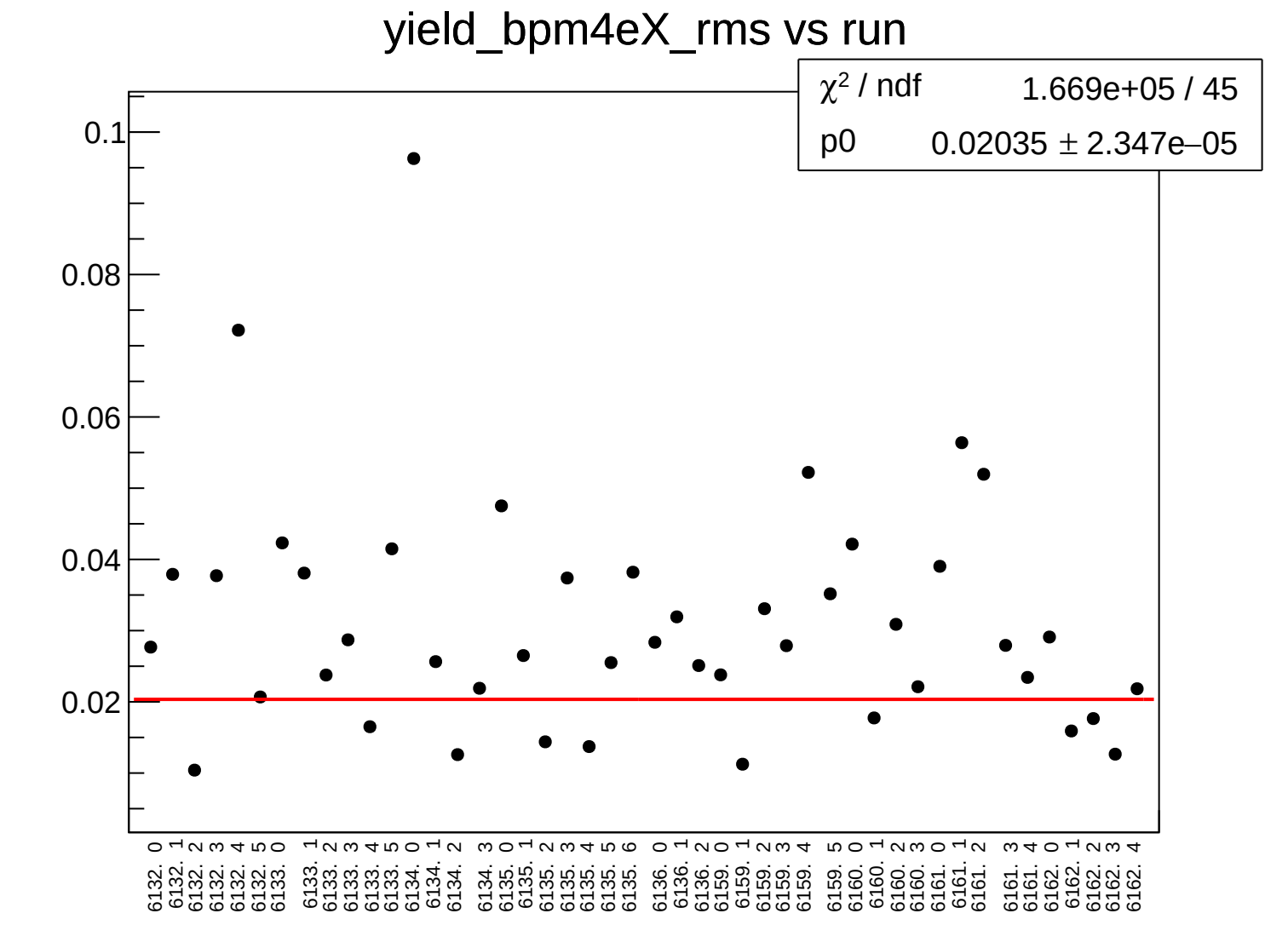

yield_bpm4aX_rms vs run
χ² / ndf 1.644e+05 / 45
p0 0.02447 ± 2.818e−05
0.12
0.1
0.08
0.06
0.04
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

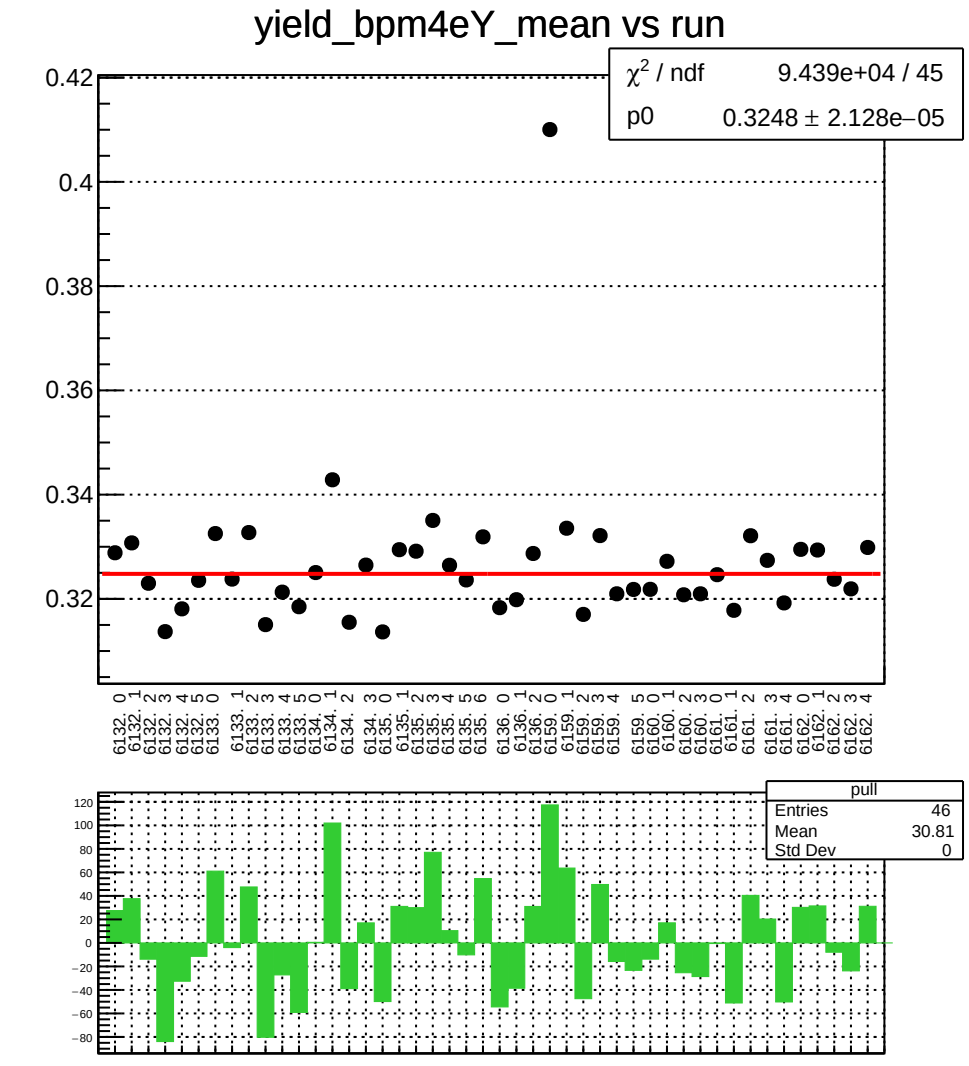

yield_bpm4aY_mean vs run
χ² / ndf 9.734e+04 / 45
p0 0.611± 2.388e−05
0.68
0.66
0.64
0.62
0.6
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 29.79
Std Dev 0
100
50
0
−50
−100

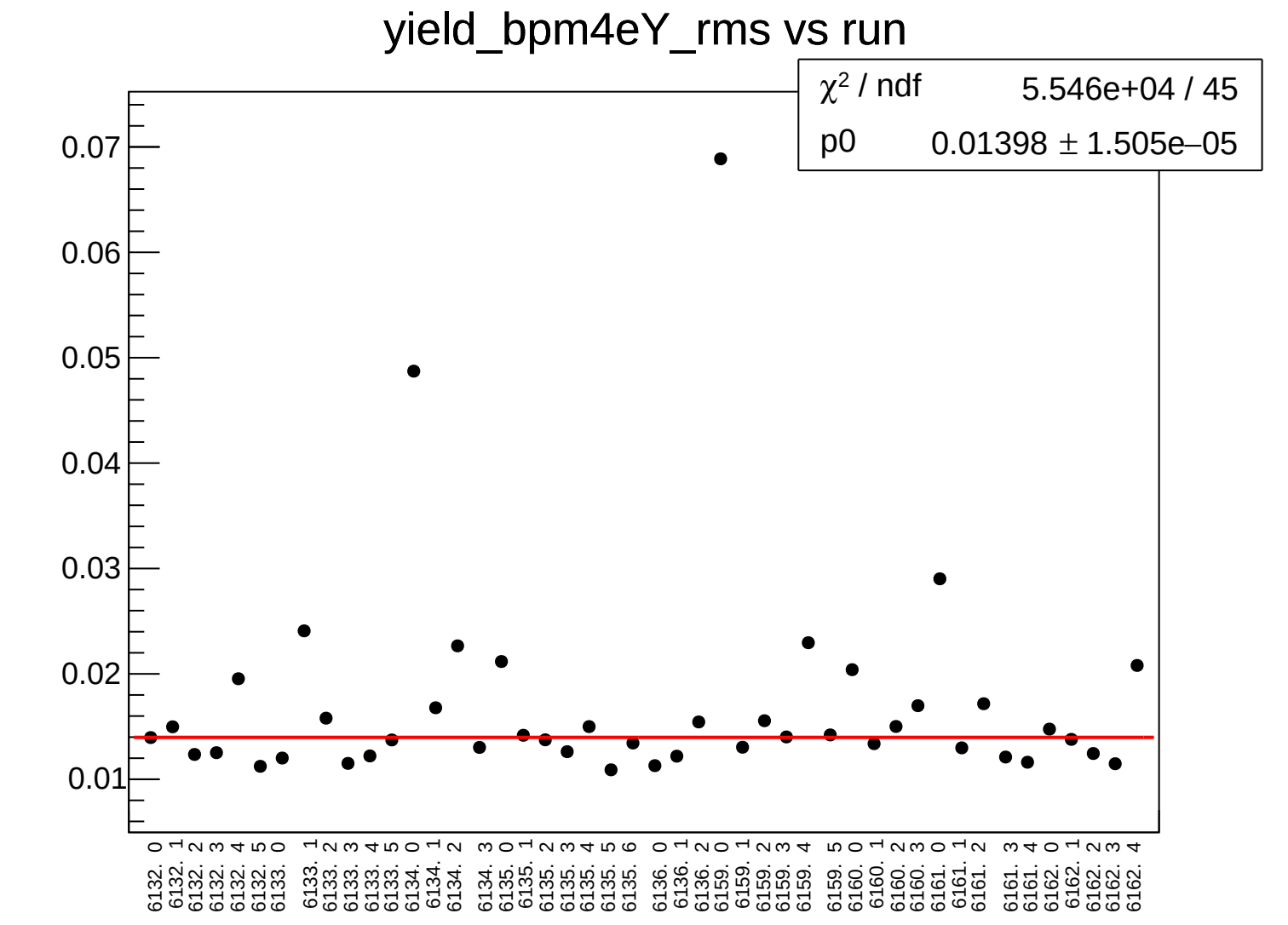

pull1D
Entries 46
Mean −0.6941
Std Dev 4.059
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

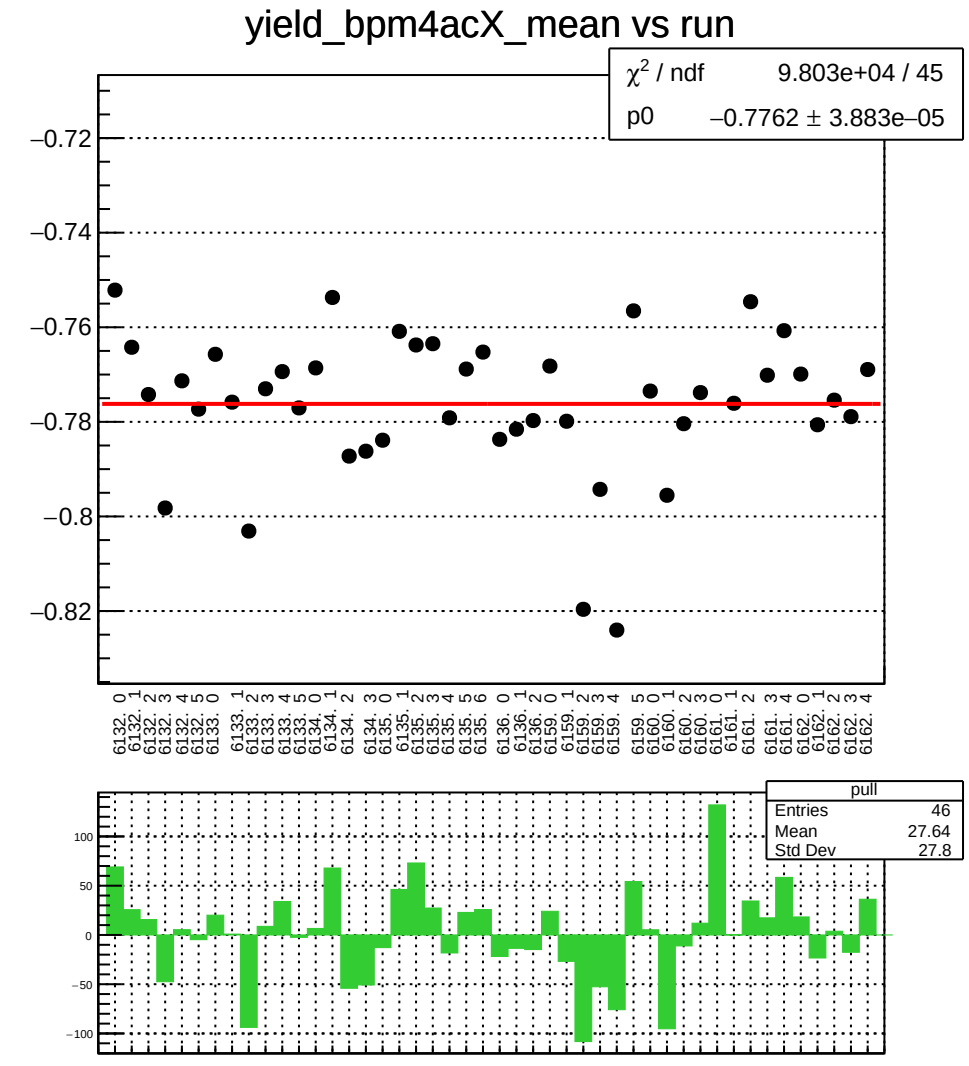

yield_bpm4aY_rms vs run
χ² / ndf 4.465e+04 / 45
p0 0.01578 ± 1.689e–05
0.06
0.05
0.04
0.03
0.02
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_bpm4eX_mean vs run
χ² / ndf 9.714e+04 / 45
p0 −0.08417 ± 3.32e−05
−0.04
−0.06
−0.08
−0.1
−0.12
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 20.47
Std Dev 26.95
100
50
0
−50
−100
pull1D
Entries 46
Mean 0.7408
Std Dev 3.092
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 1.669e+05 / 45
p0 0.02035 ± 2.347e–05
0.1
0.08
0.06
0.04
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_bpm4eY_mean vs run
χ² / ndf 9.439e+04 / 45
p0 0.3248 ± 2.128e−05
0.42
0.4
0.38
0.36
0.34
0.32
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 30.81
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 46
Mean −2.97
Std Dev 3.292
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 5.546e+04 / 45
p0 0.01398 ± 1.505e−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
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_bpm4acX_mean vs run
χ² / ndf 9.803e+04 / 45
p0 −0.7762 ± 3.883e−05
−0.72
−0.74
−0.76
−0.78
−0.8
−0.82
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
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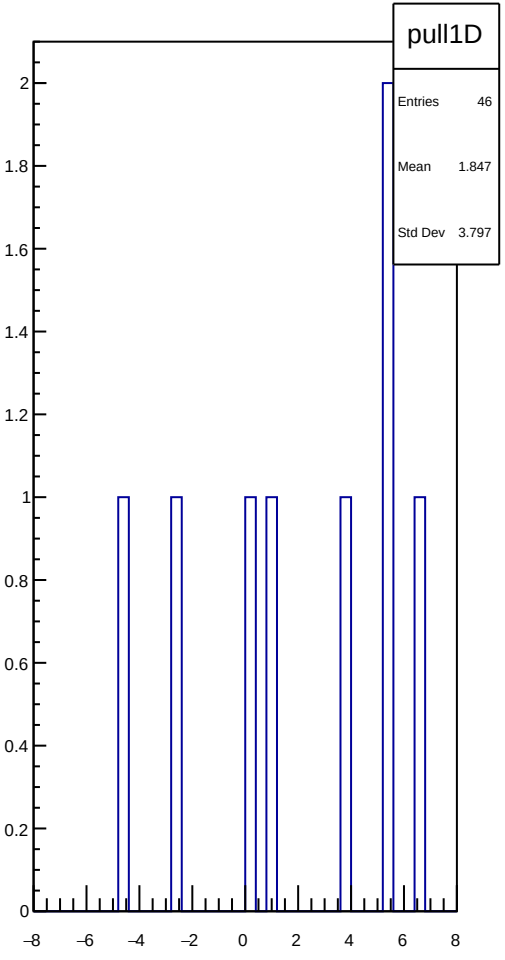
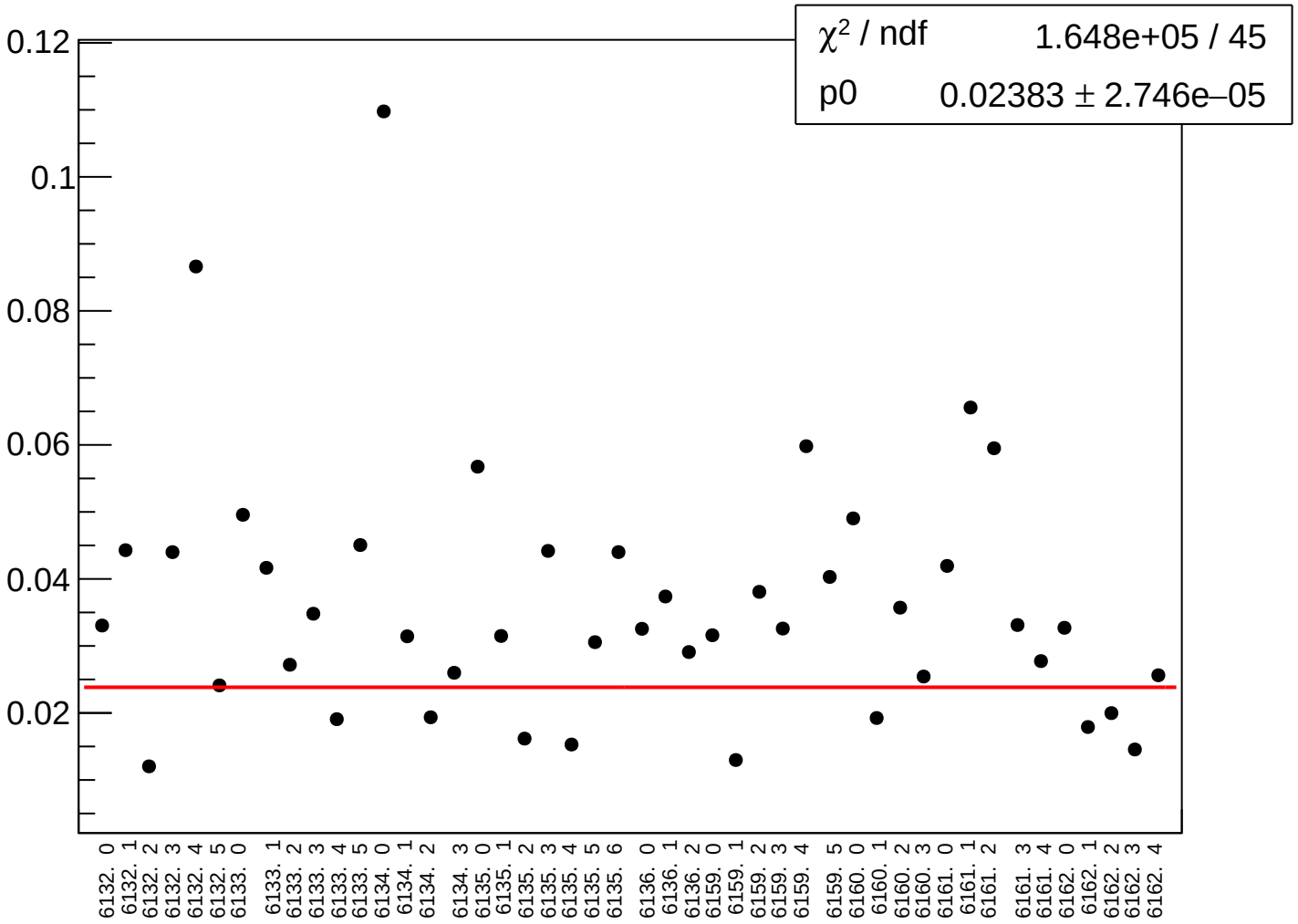
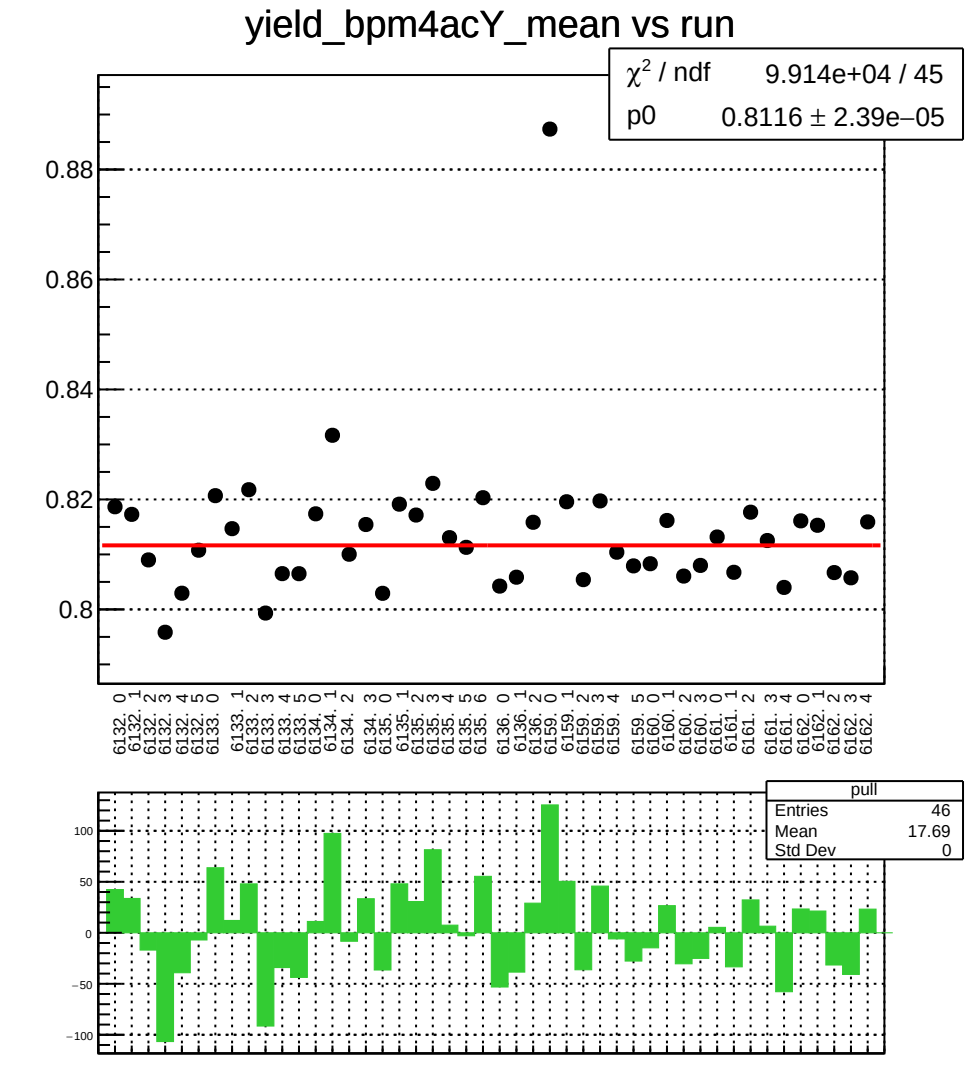
6162. 3
6162. 4
pull
Entries 46
Mean 27.64
Std Dev 27.8
100
50
0
−50
−100


pull1D
Entries 46
Mean 1.847
Std Dev 3.797
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 1.648e+05 / 45
p0 0.02383 ± 2.746e−05
0.12
0.1
0.08
0.06
0.04
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_bpm4acY_mean vs run
χ² / ndf 9.914e+04 / 45
p0 0.8116 ± 2.39e−05
0.88
0.86
0.84
0.82
0.8
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
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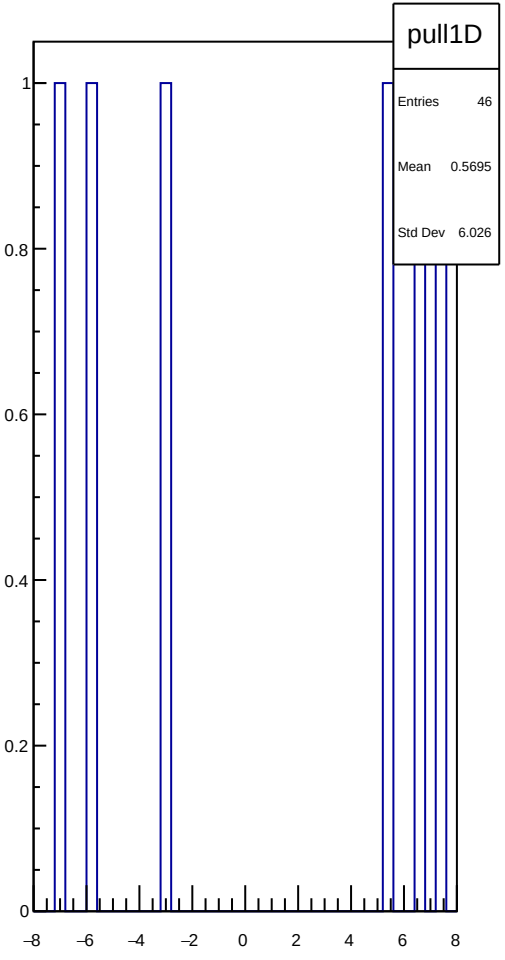
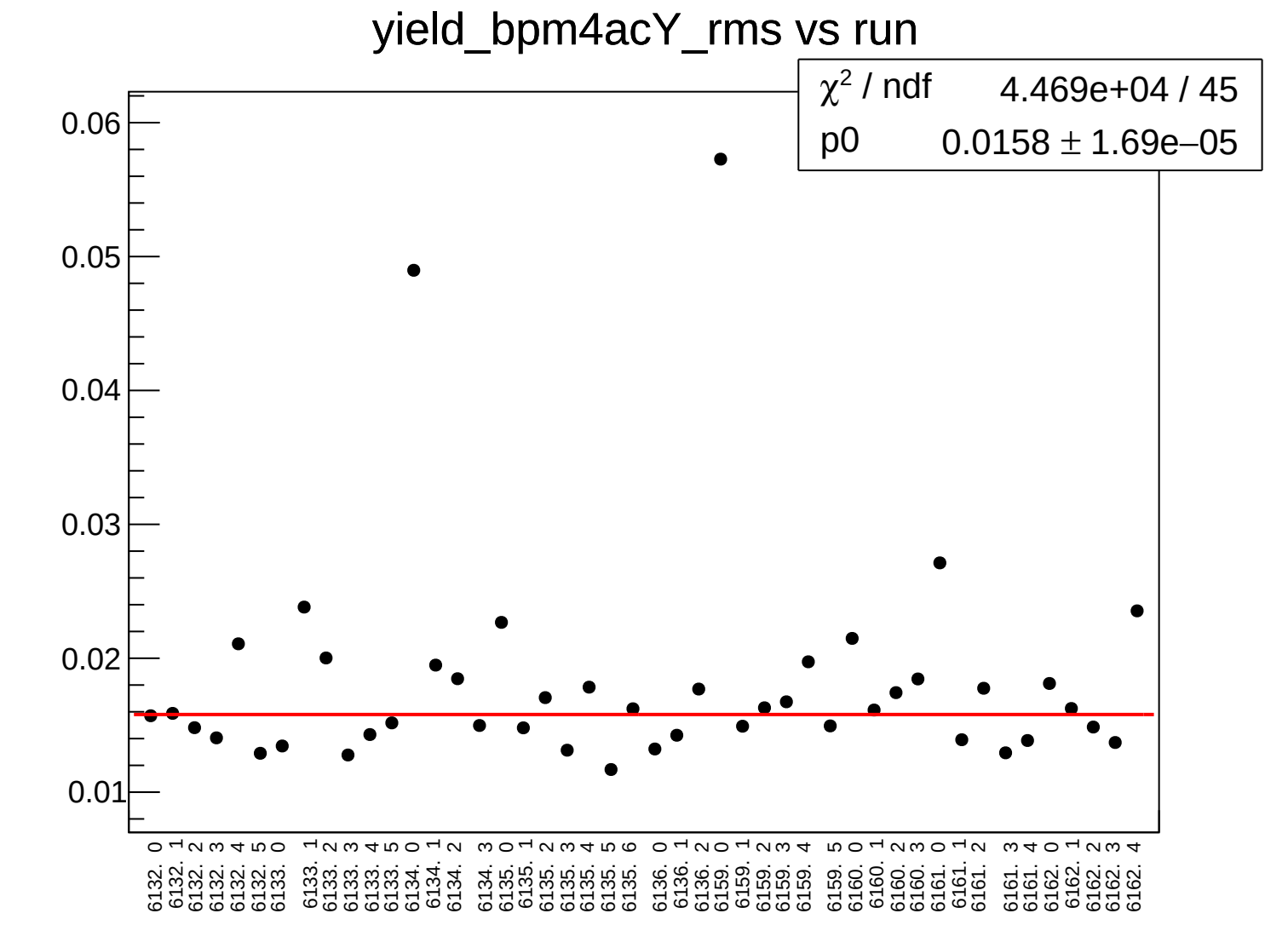
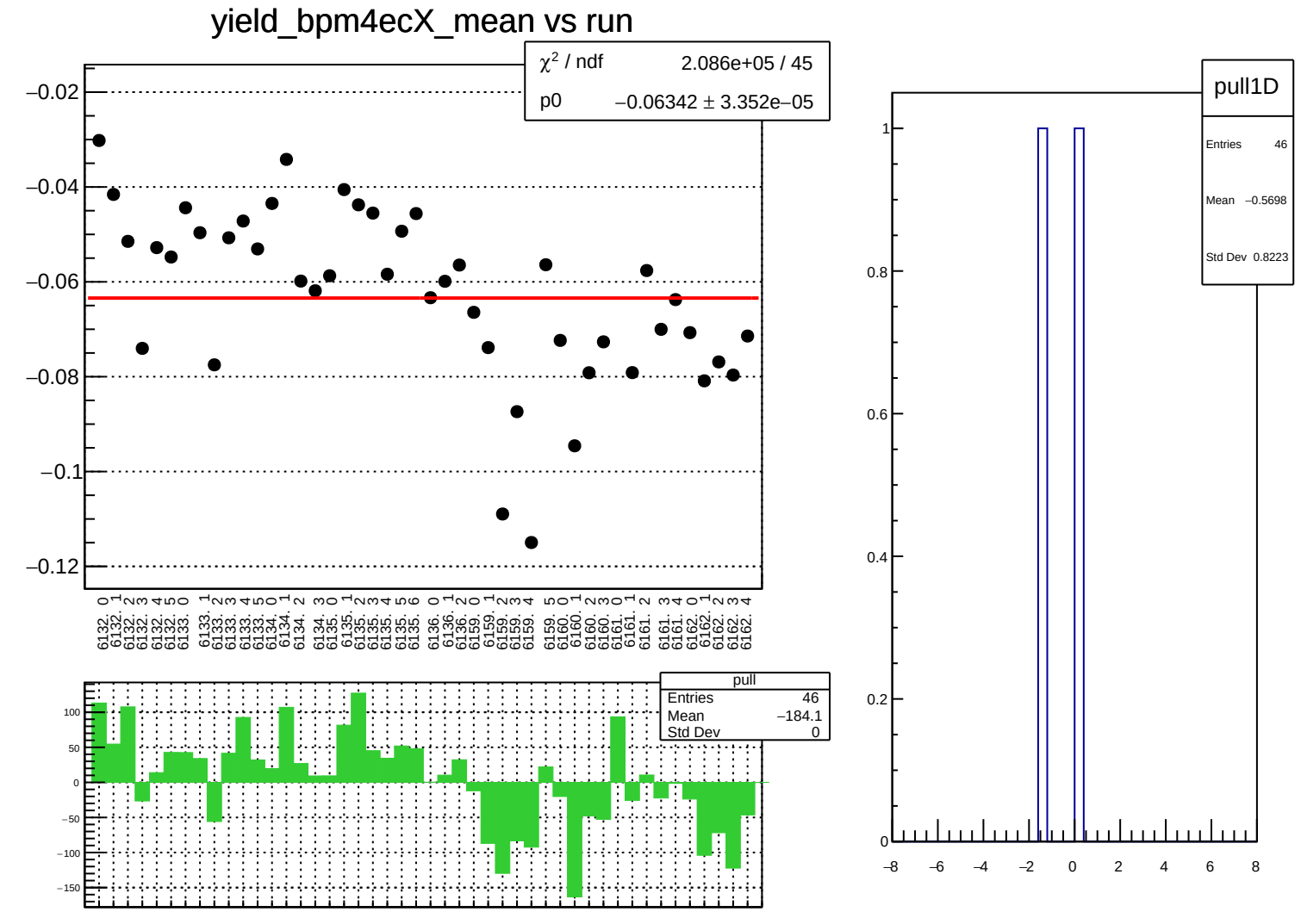
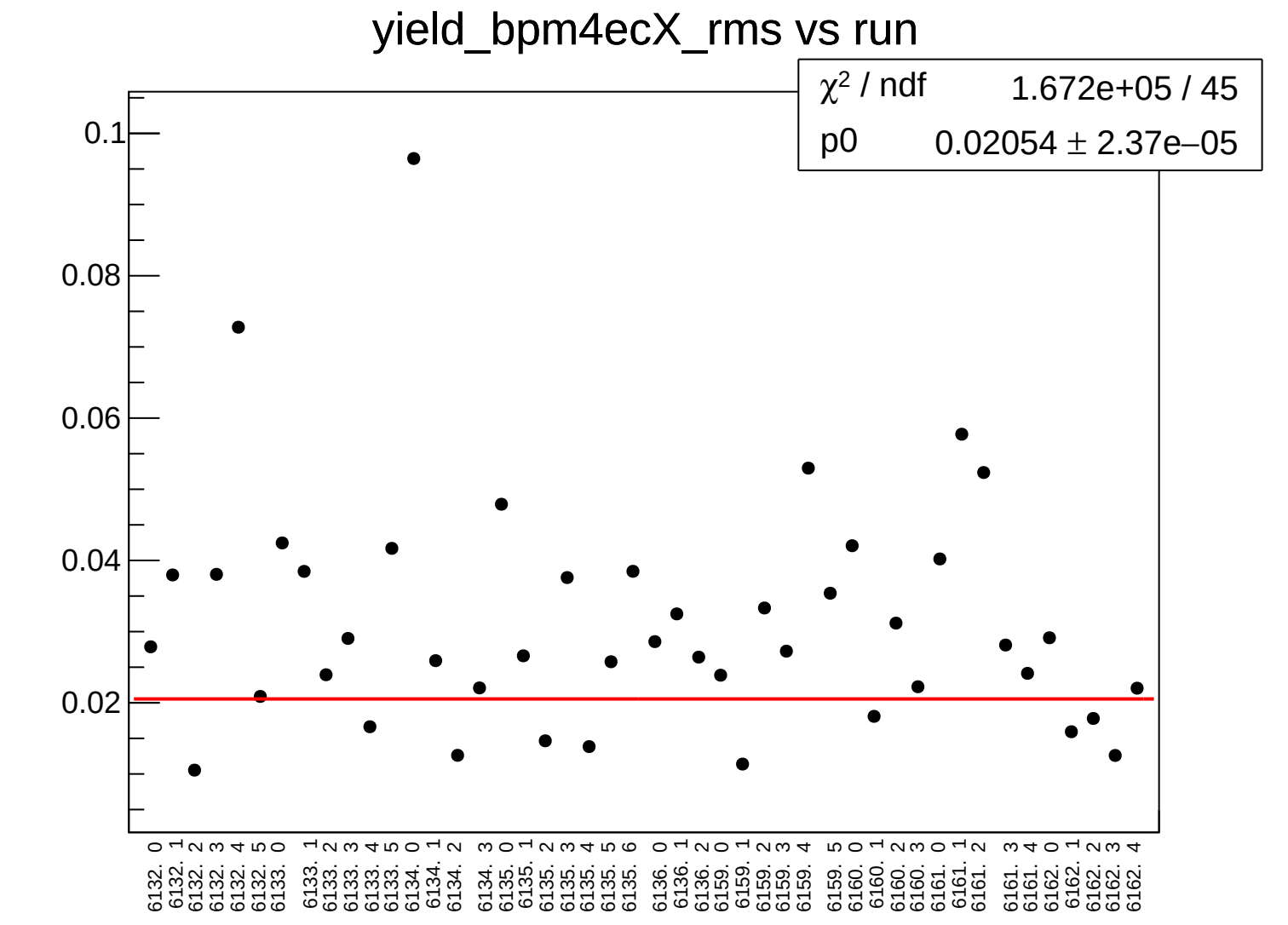
6162. 3
6162. 4
pull
Entries 46
Mean 17.69
Std Dev 0
100
50
0
−50
−100


pull1D
Entries 46
Mean 0.5695
Std Dev 6.026
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 4.469e+04 / 45
p0 0.0158 ± 1.69e−05
0.06
0.05
0.04
0.03
0.02
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_bpm4ecX_mean vs run
χ² / ndf 2.086e+05 / 45
p0 −0.06342 ± 3.352e−05
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −184.1
Std Dev 0
100
50
0
−50
−100
−150
pull1D
Entries 46
Mean −0.5698
Std Dev 0.8223
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 1.672e+05 / 45
p0 0.02054 ± 2.37e−05
0.1
0.08
0.06
0.04
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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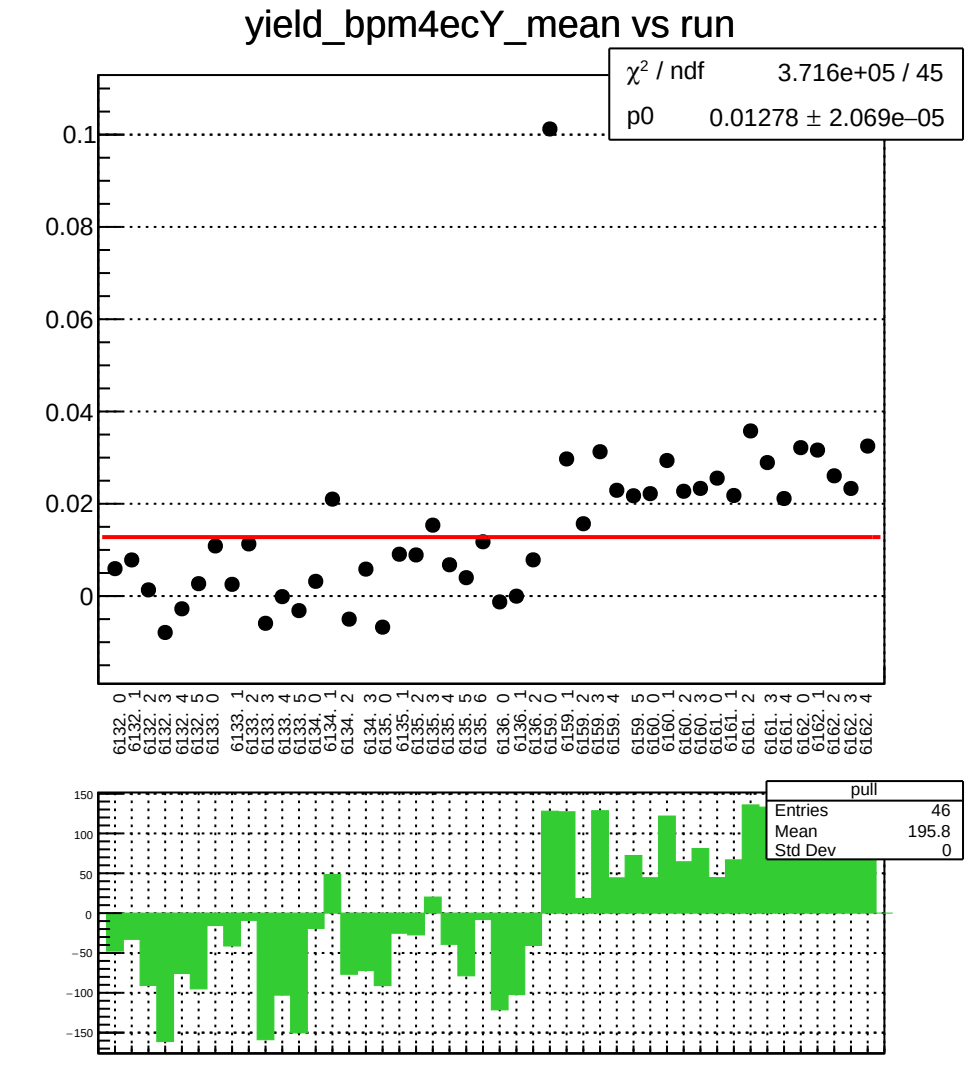
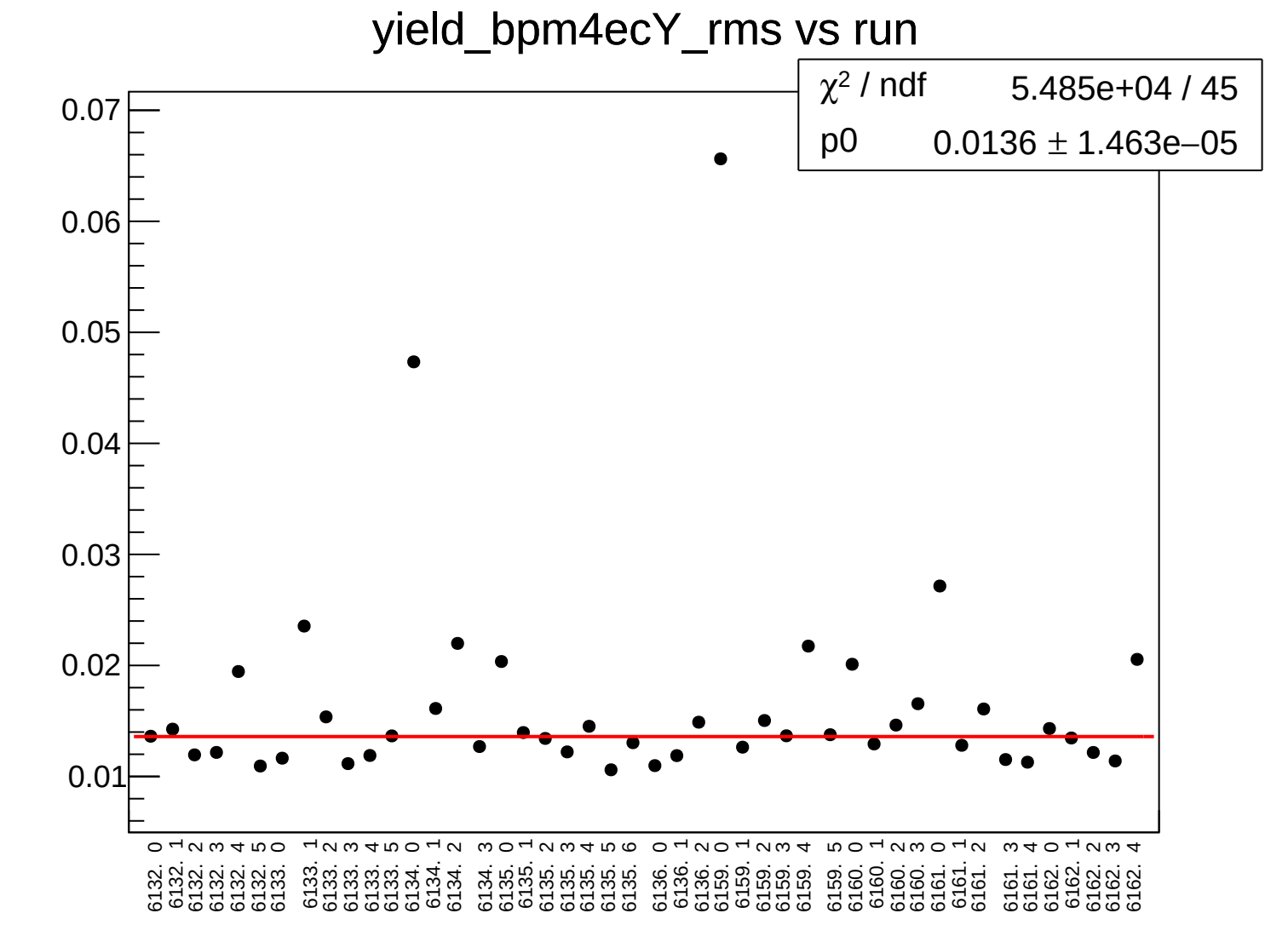
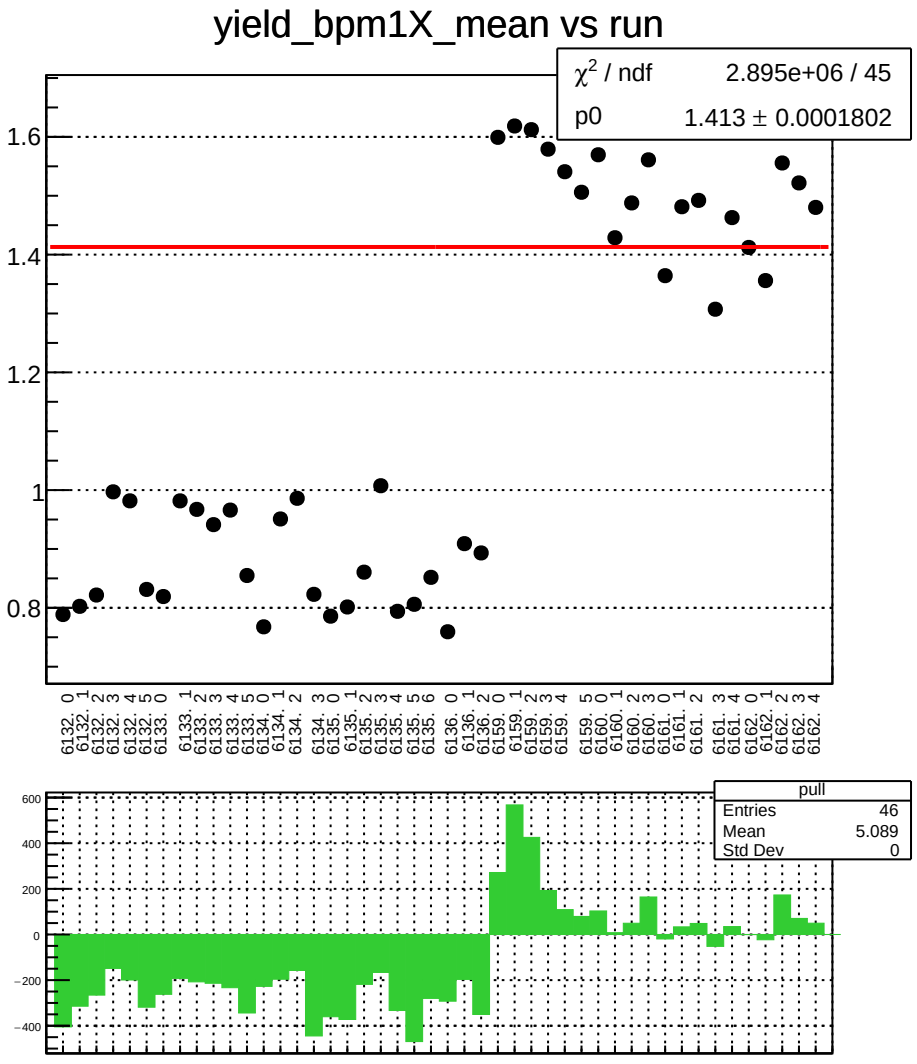
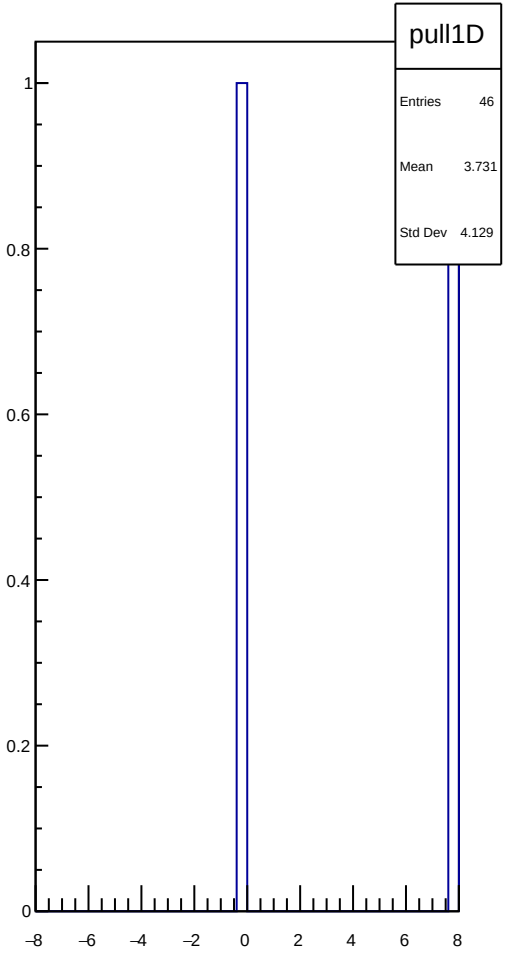
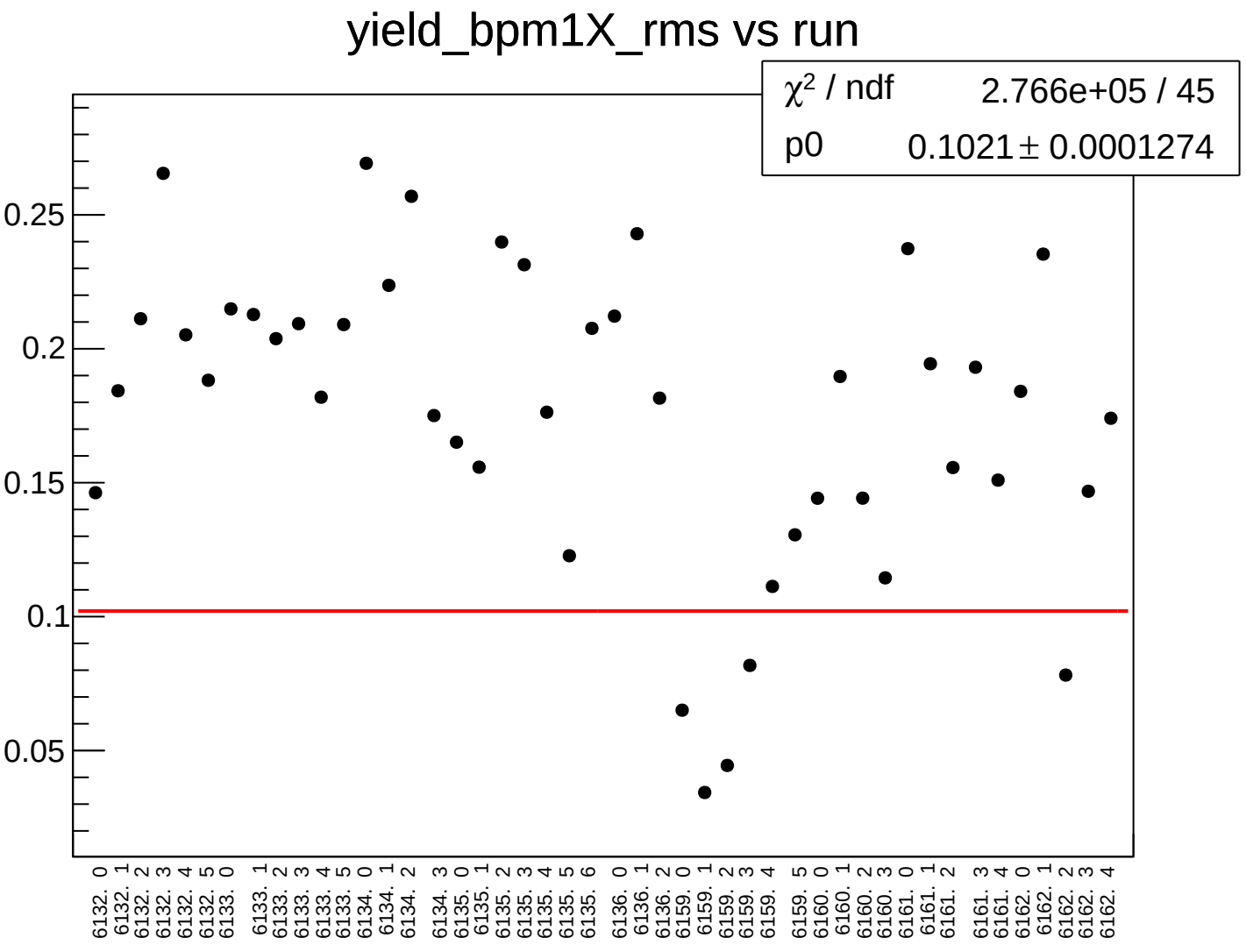
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

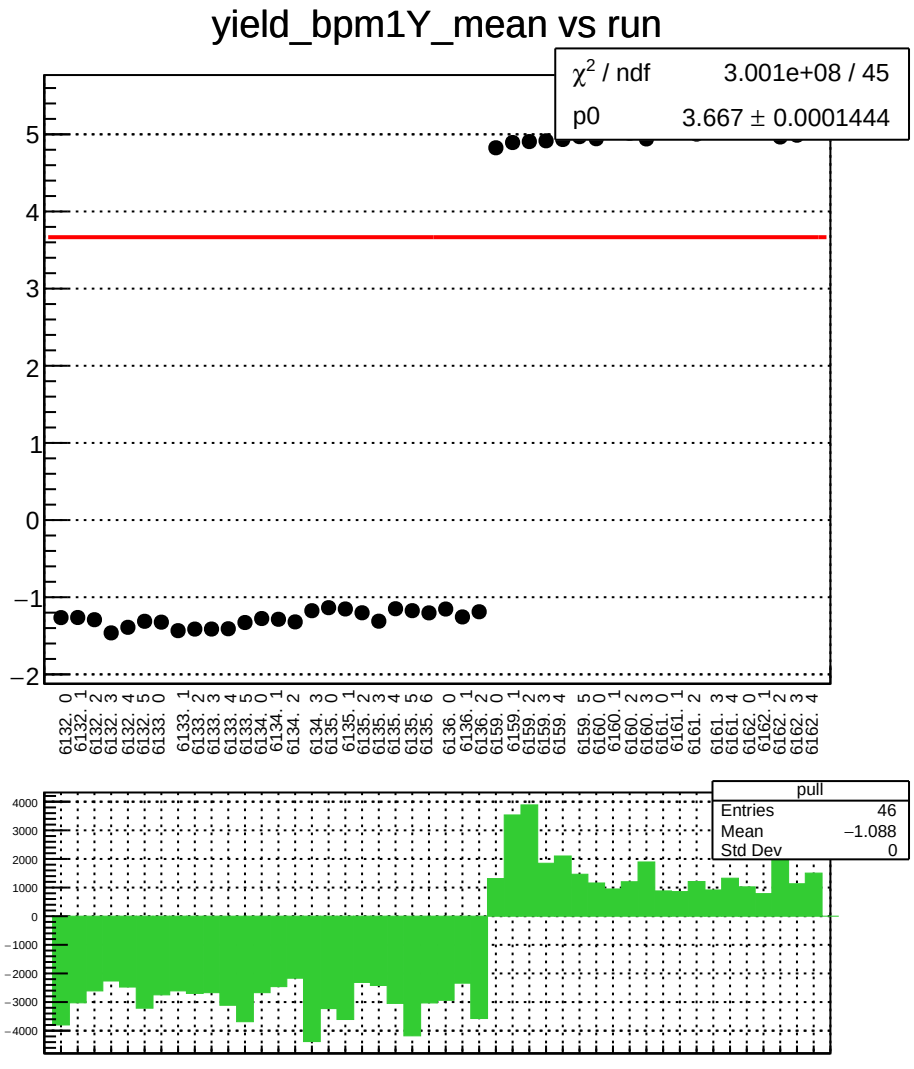

yield_bpm4ecY_mean vs run
χ² / ndf 3.716e+05 / 45
p0 0.01278 ± 2.069e−05
0.1
0.08
0.06
0.04
0.02
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 195.8
Std Dev 0
150
100
50
0
−50
−100
−150
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

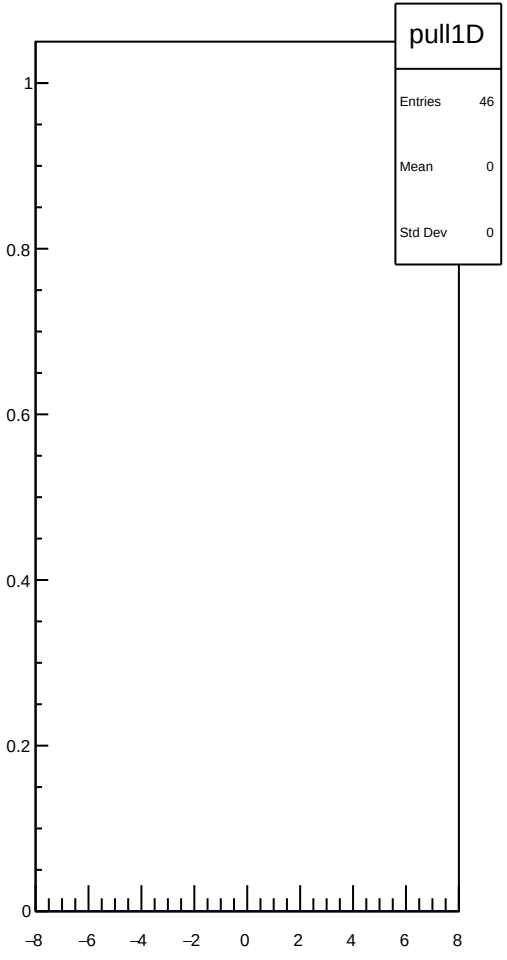

yield_bpm4ecY_rms vs run
χ² / ndf 5.485e+04 / 45
p0 0.0136 ± 1.463e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

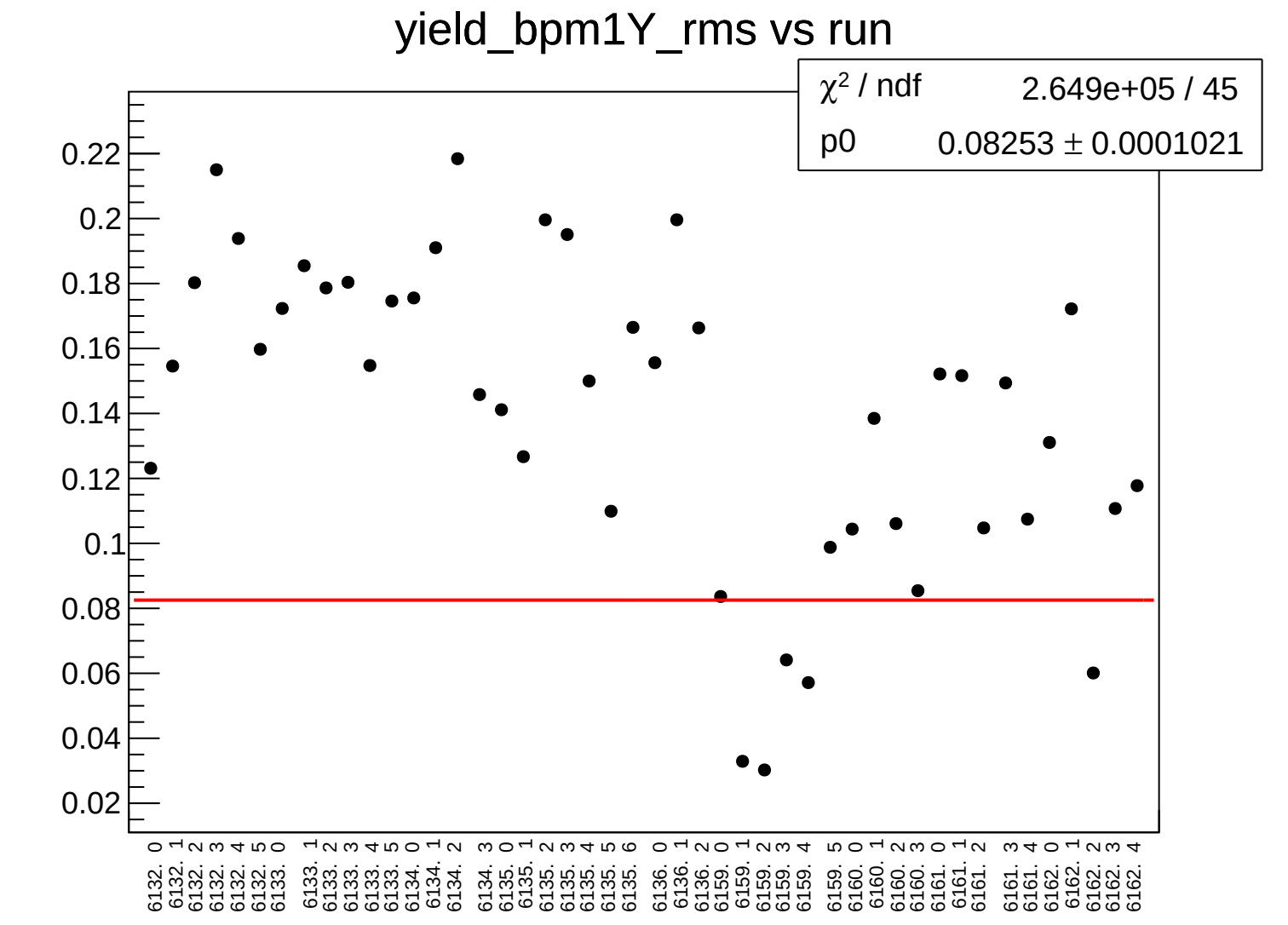

yield_bpm1X_mean vs run
χ² / ndf 2.895e+06 / 45
p0 1.413 ± 0.0001802
1.6
1.4
1.2
1
0.8
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 5.089
Std Dev 0
600
400
200
0
−200
−400

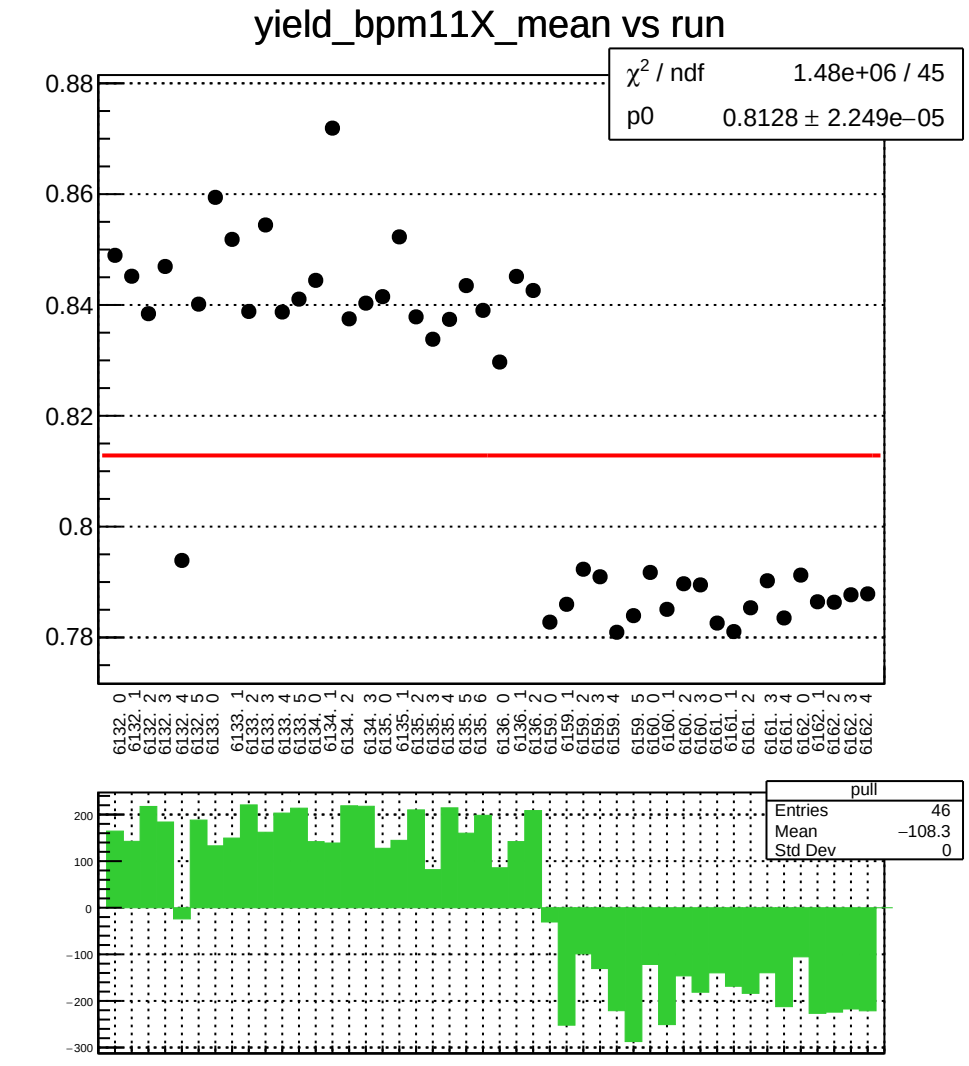

pull1D
Entries 46
Mean 3.731
Std Dev 4.129
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

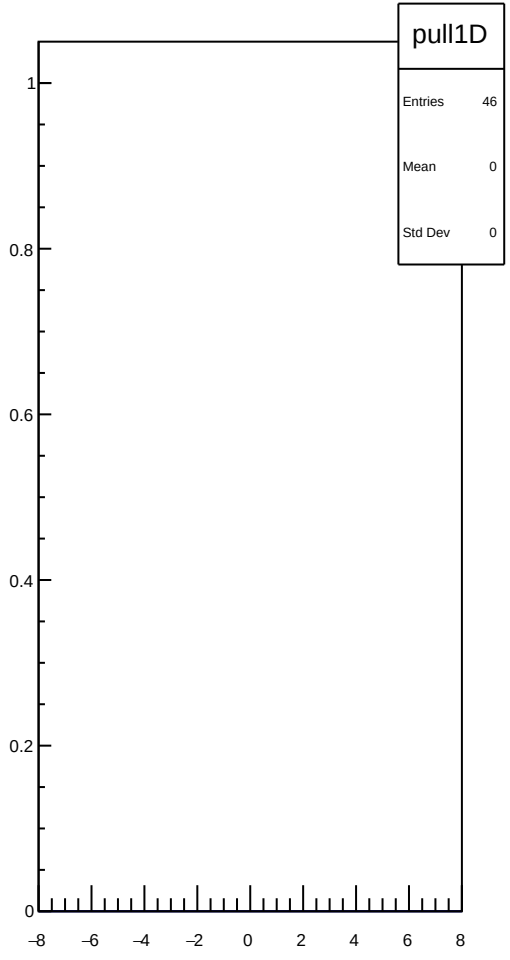

yield_bpm1X_rms vs run
χ² / ndf 2.766e+05 / 45
p0 0.1021 ± 0.0001274
0.25
0.2
0.15
0.1
0.05
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

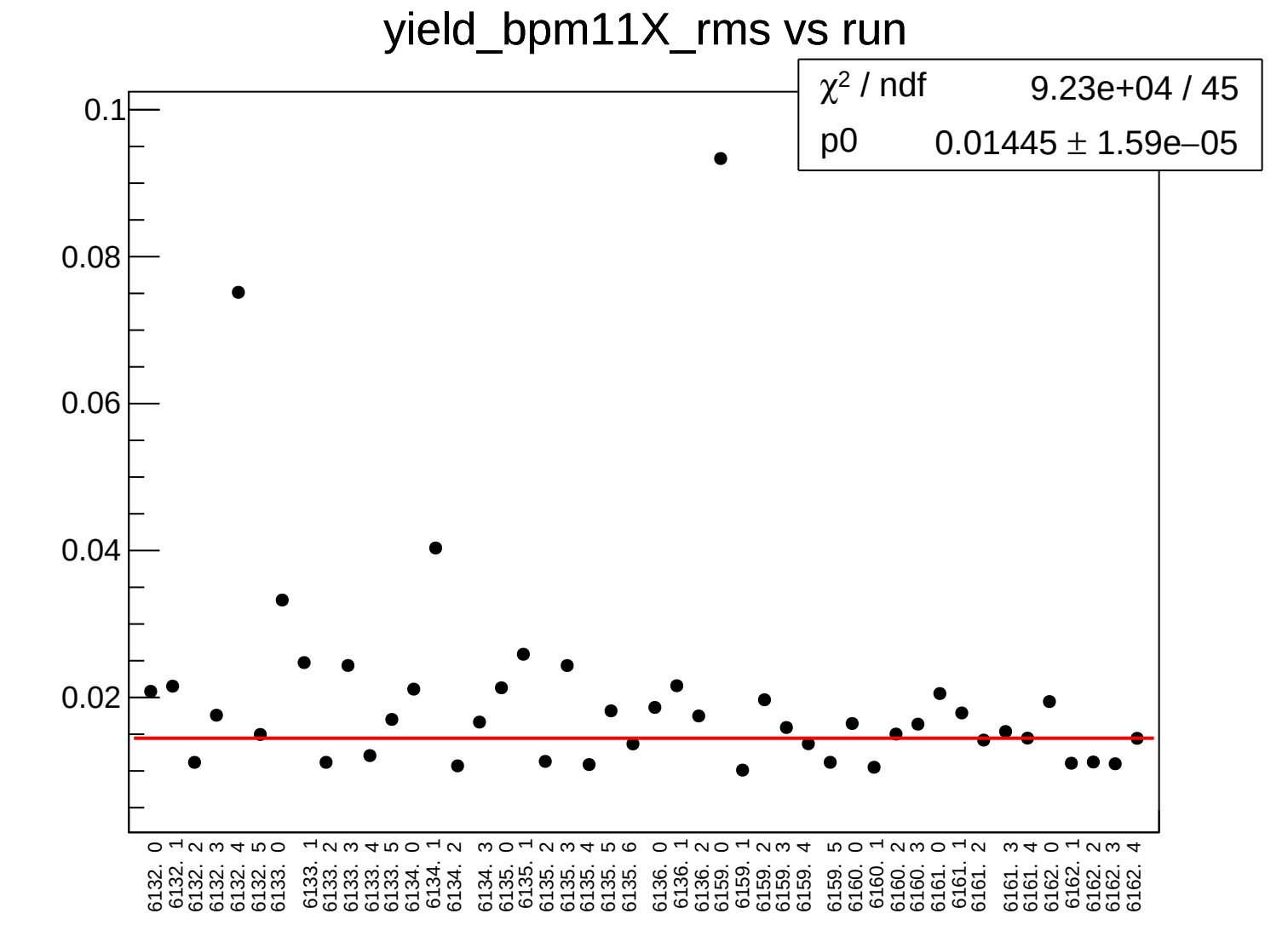

yield_bpm1Y_mean vs run
χ² / ndf 3.001e+08 / 45
p0 3.667 ± 0.0001444
pull
Entries 46
Mean −1.088
Std Dev 0

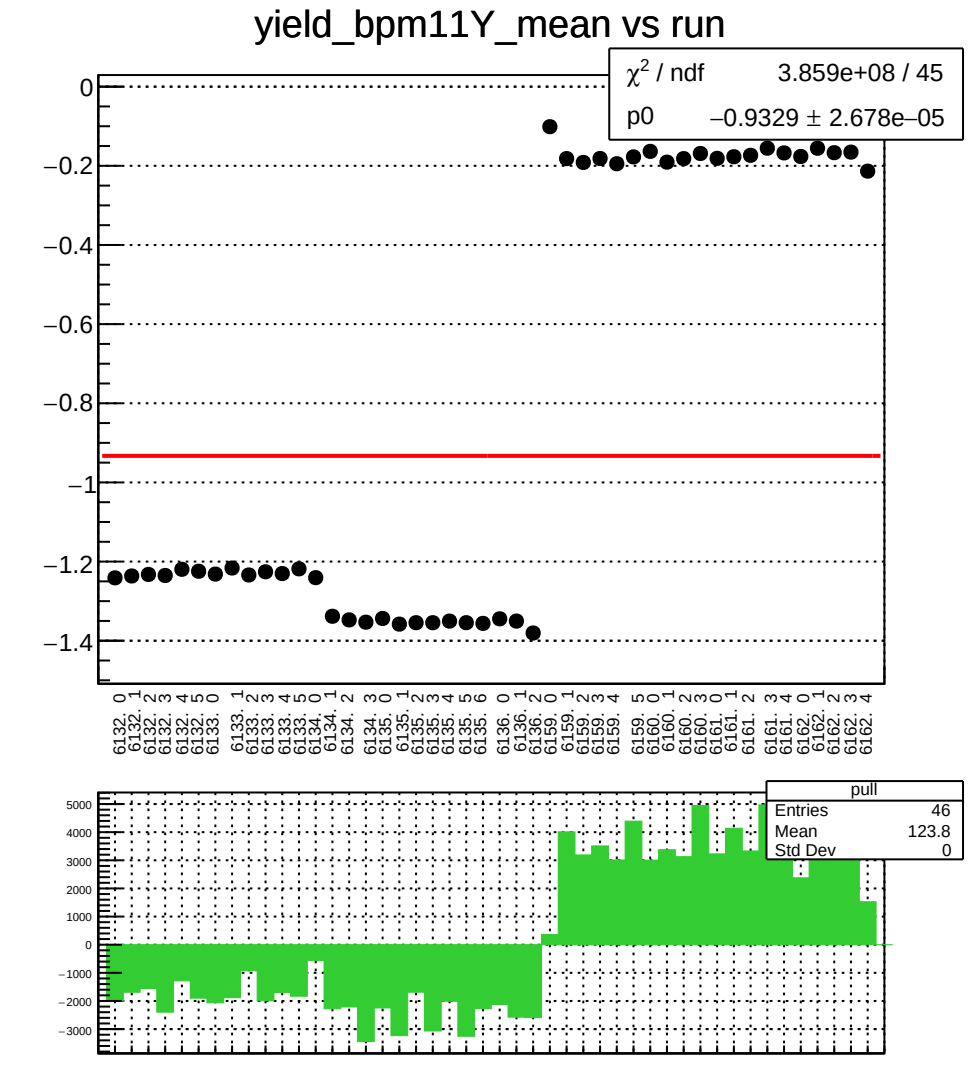

pull1D
Entries 46
Mean 0
Std Dev 0

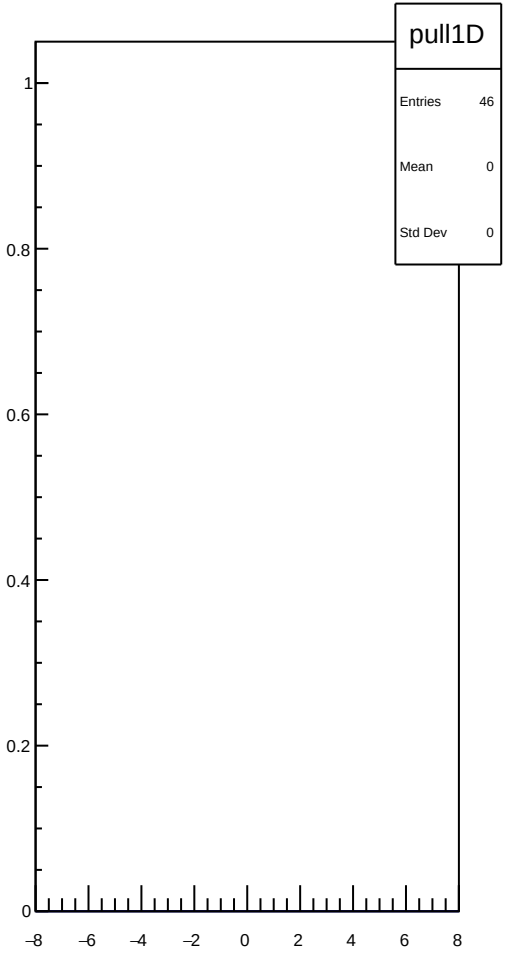

yield_bpm1Y_rms vs run
χ² / ndf 2.649e+05 / 45
p0 0.08253 ± 0.0001021
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

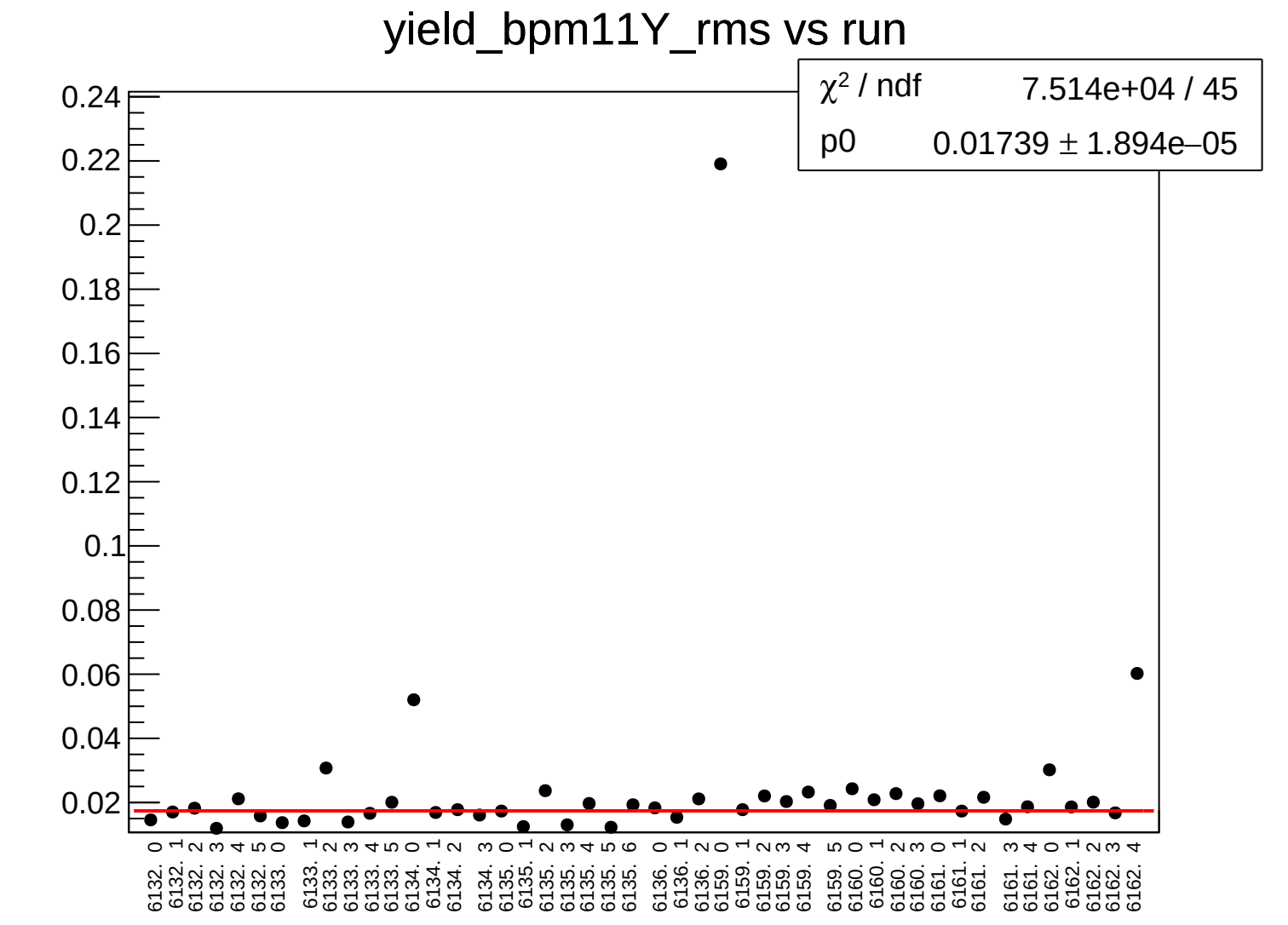

yield_bpm11X_mean vs run
χ² / ndf 1.48e+06 / 45
p0 0.8128 ± 2.249e−05
0.88
0.86
0.84
0.82
0.8
0.78
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −108.3
Std Dev 0
200
100
0
−100
−200
−300


pull1D
Entries 46
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 9.23e+04 / 45
p0 0.01445 ± 1.59e−05
0.1
0.08
0.06
0.04
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_bpm11Y_mean vs run
χ² / ndf 3.859e+08 / 45
p0 −0.9329 ± 2.678e−05
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 123.8
Std Dev 0
5000
4000
3000
2000
1000
0
−1000
−2000
−3000


pull1D
Entries 46
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 7.514e+04 / 45
p0 0.01739 ± 1.894e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
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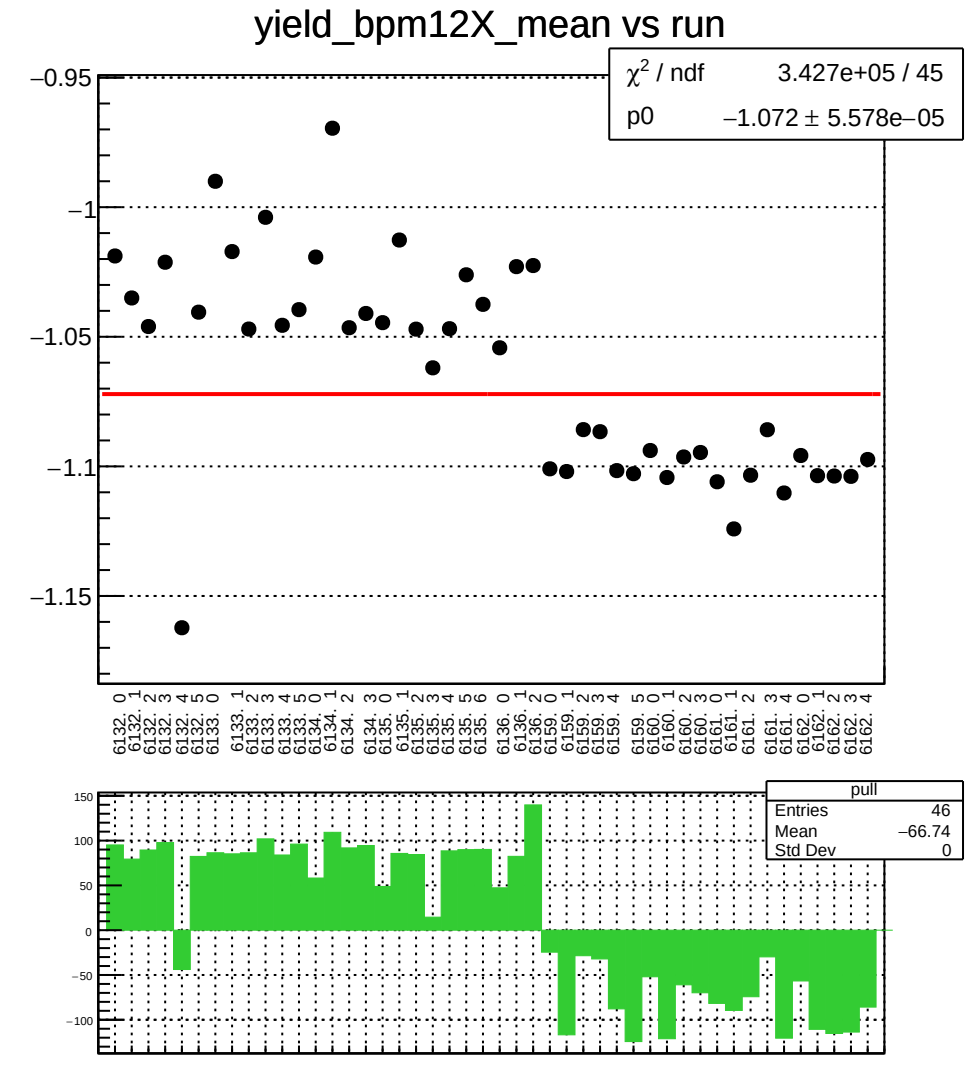
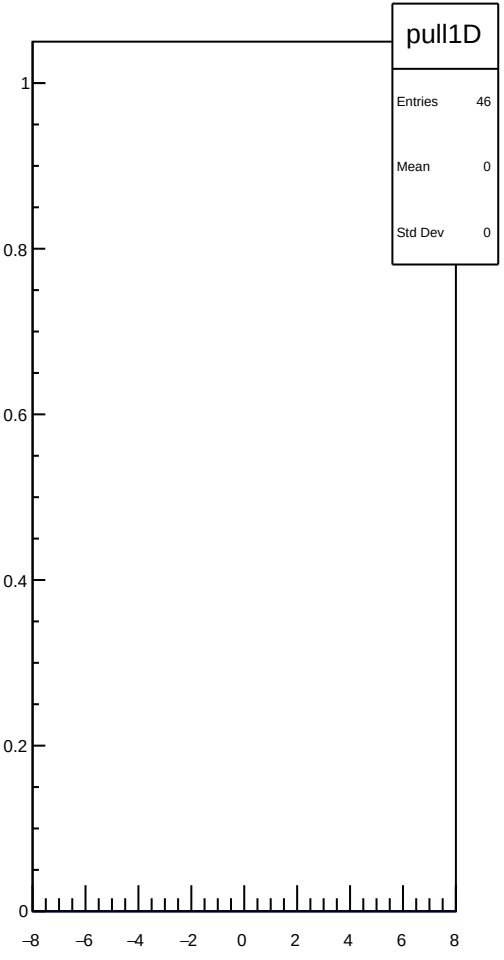
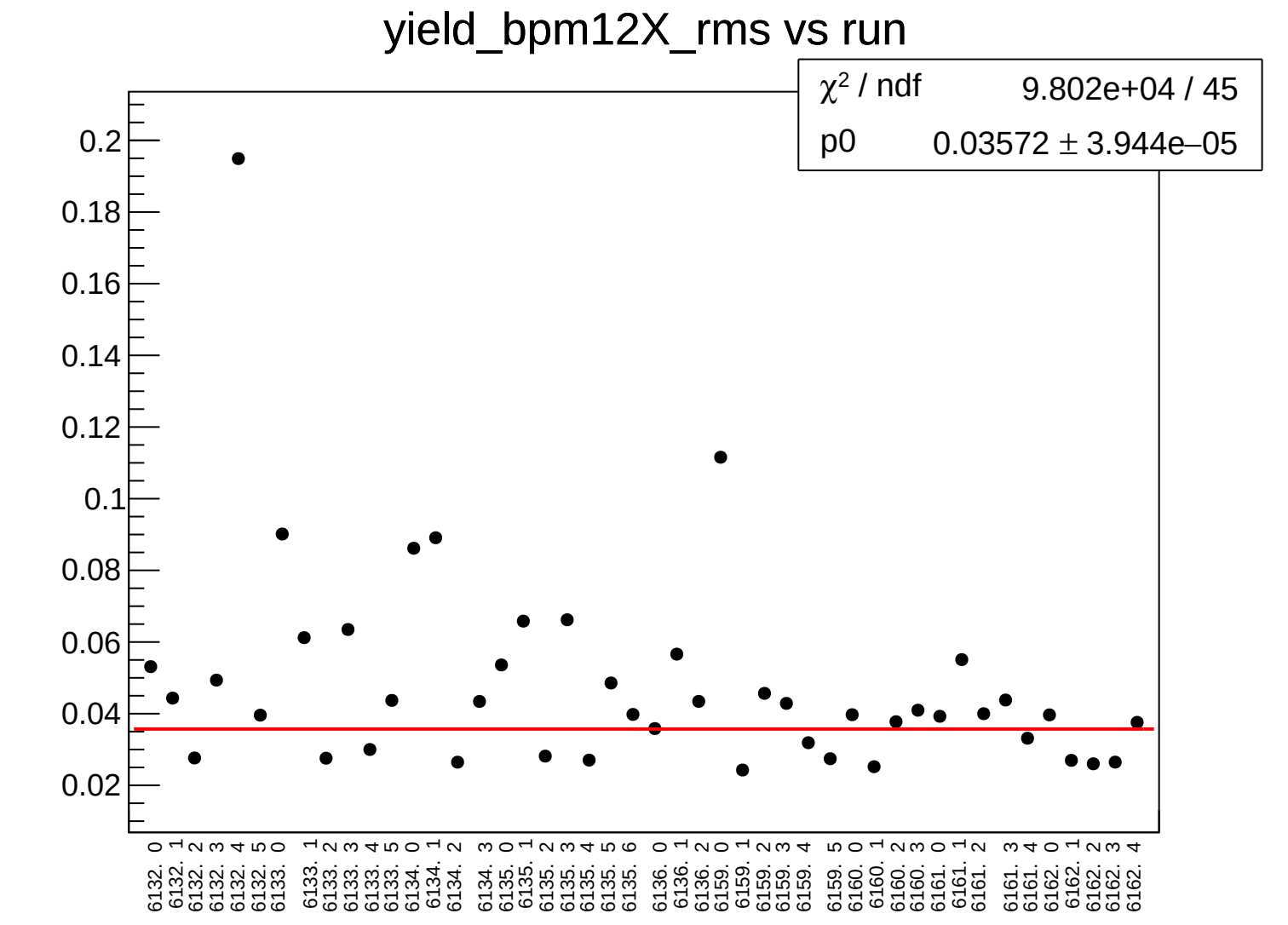
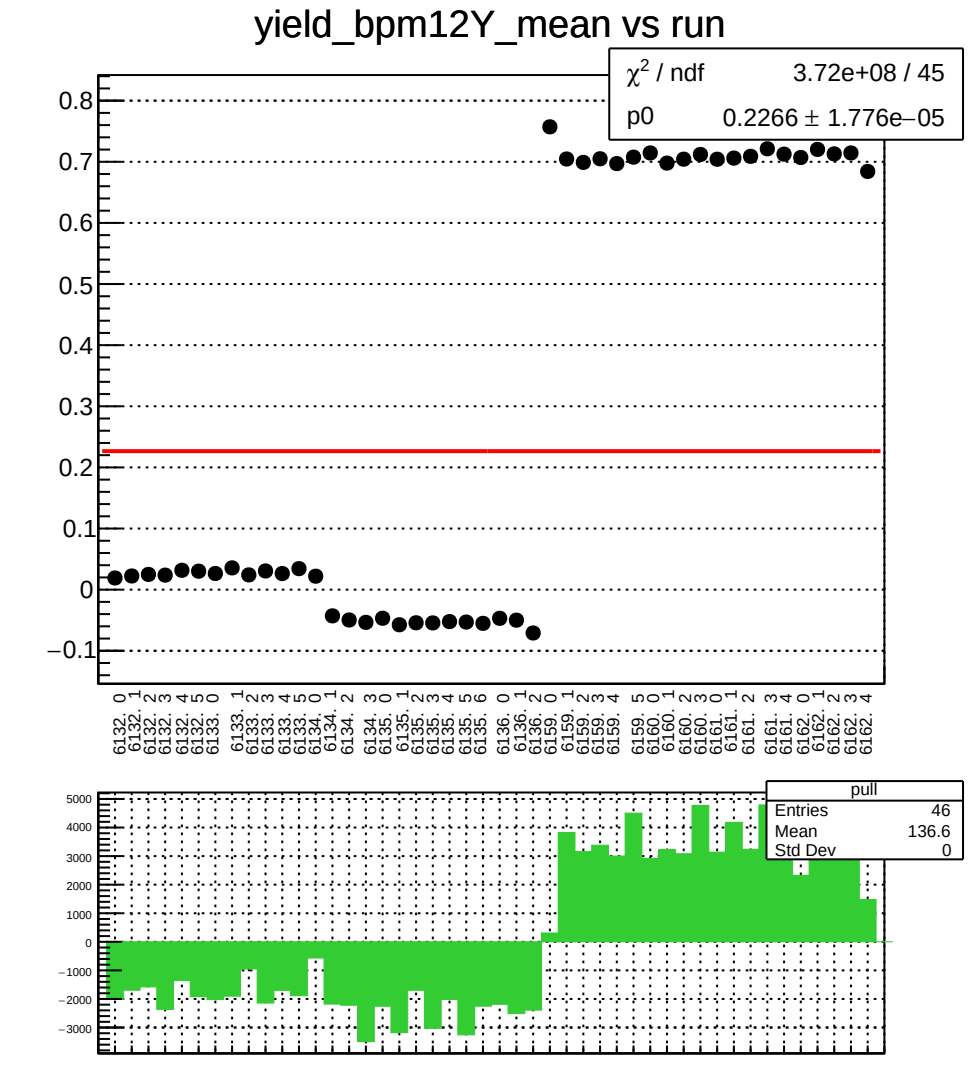
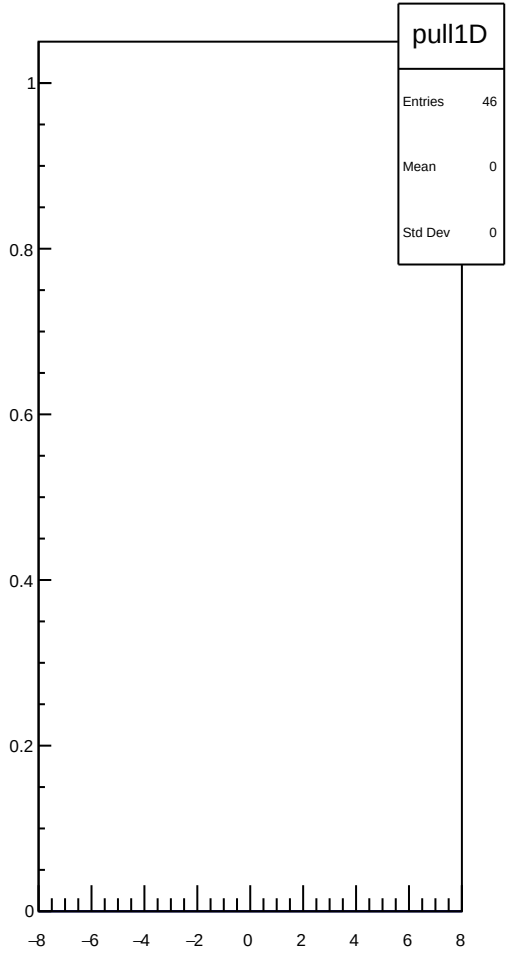
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

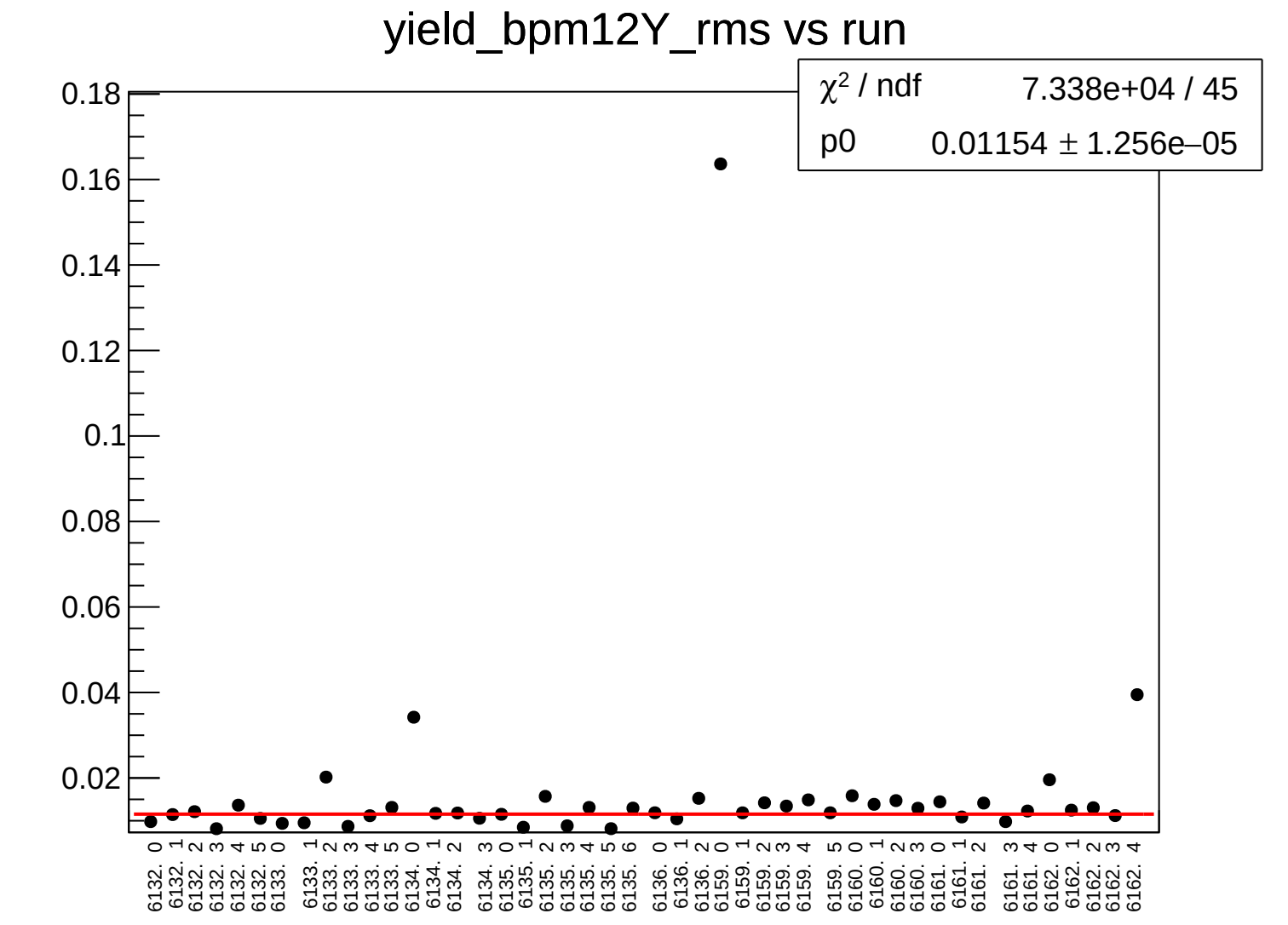

yield_bpm12X_mean vs run
χ² / ndf 3.427e+05 / 45
p0 −1.072 ± 5.578e−05
−0.95
−1
−1.05
−1.1
−1.15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −66.74
Std Dev 0
150
100
50
0
−50
−100

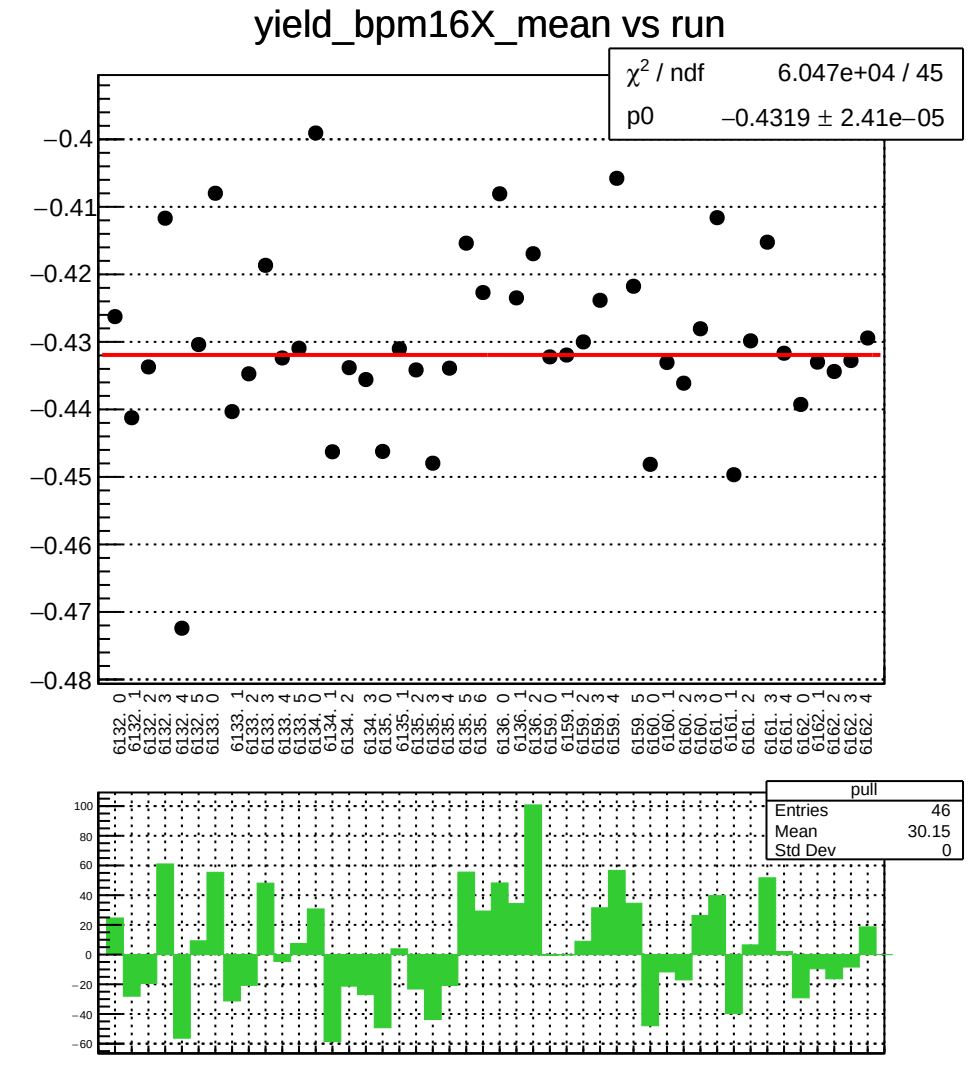

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

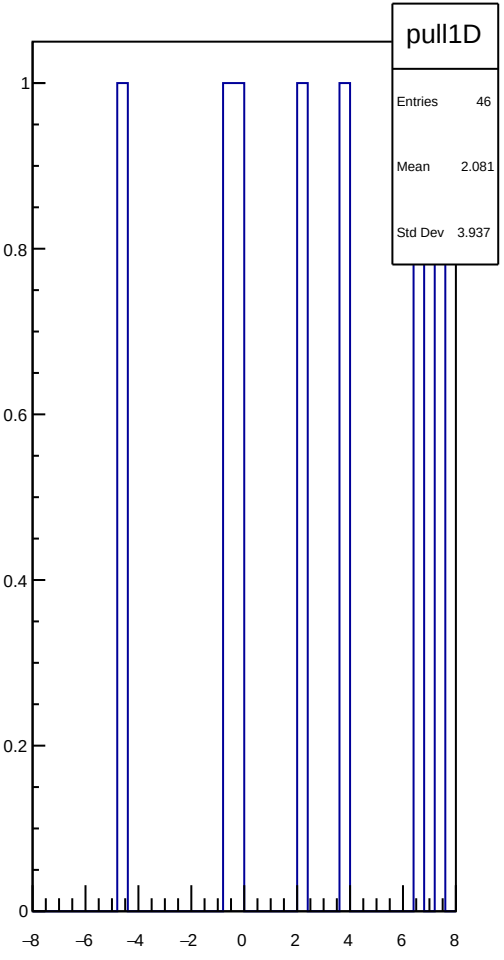

yield_bpm12X_rms vs run
χ² / ndf 9.802e+04 / 45
p0 0.03572 ± 3.944e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

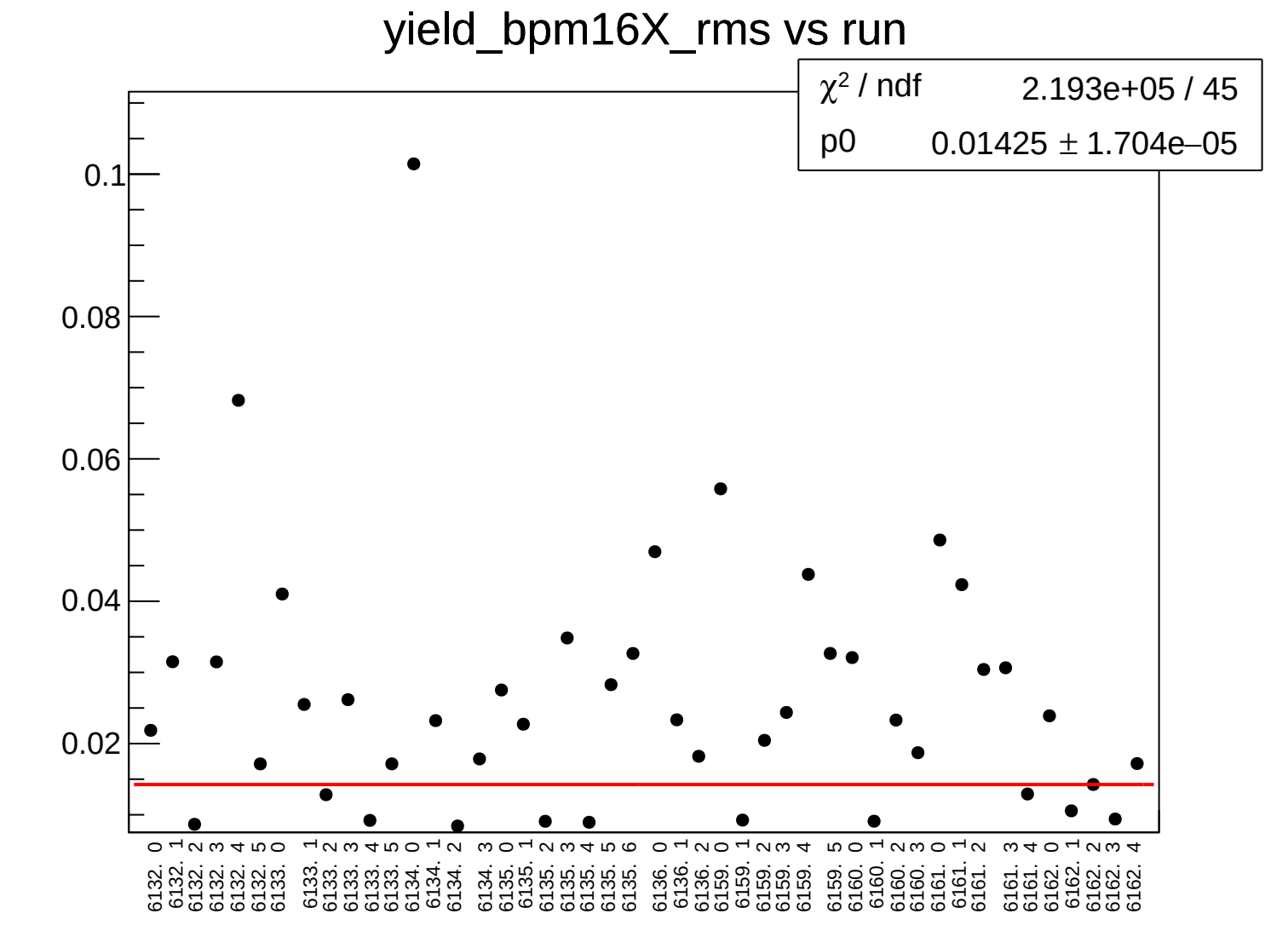

yield_bpm12Y_mean vs run
χ² / ndf 3.72e+08 / 45
p0 0.2266 ± 1.776e−05
pull
Entries 46
Mean 136.6
Std Dev 0

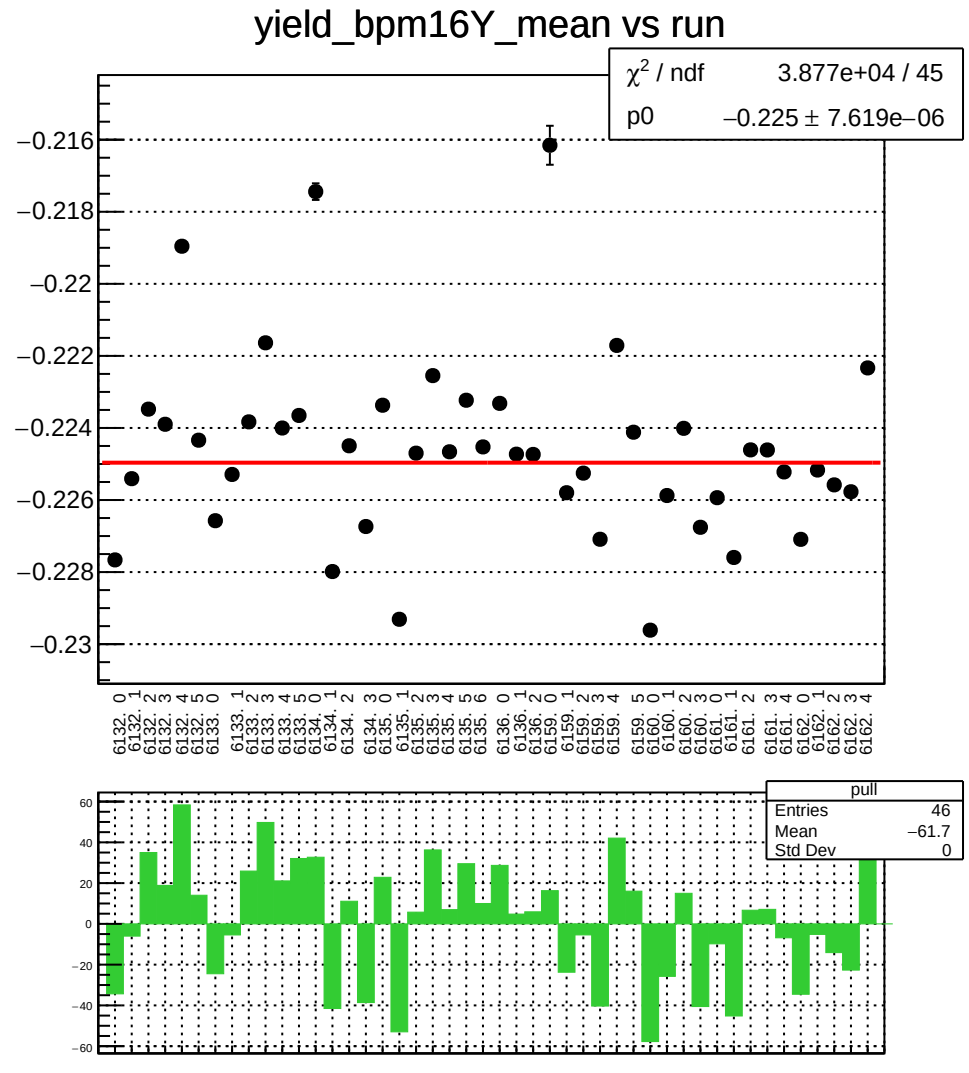

pull1D
Entries 46
Mean 0
Std Dev 0

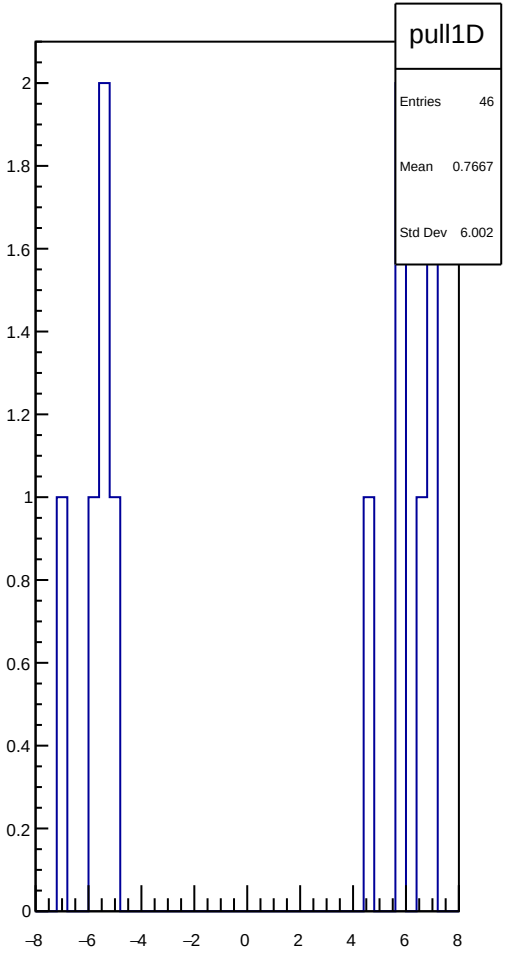

yield_bpm12Y_rms vs run
χ² / ndf 7.338e+04 / 45
p0 0.01154 ± 1.256e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

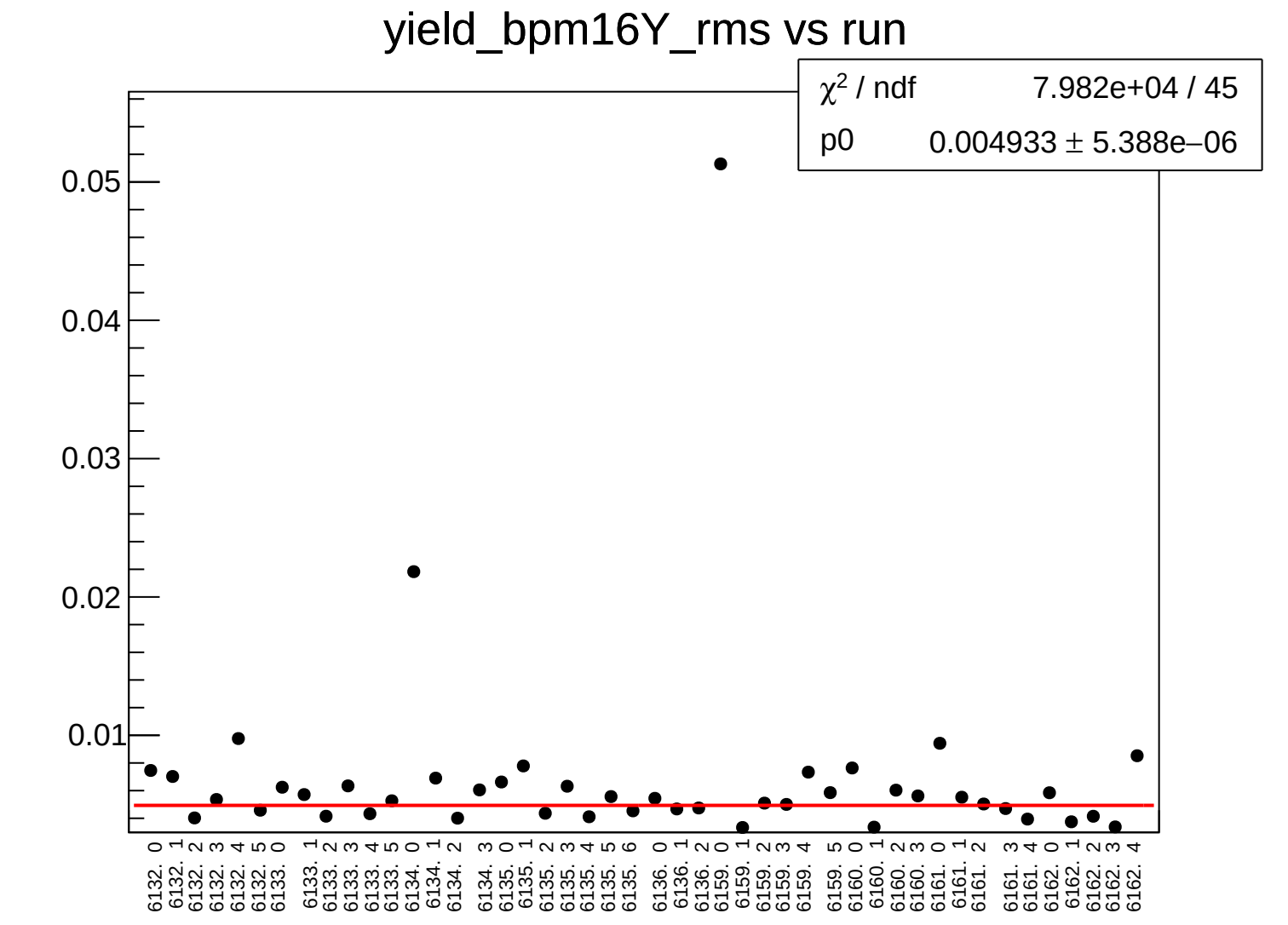

yield_bpm16X_mean vs run
χ² / ndf 6.047e+04 / 45
p0 −0.4319 ± 2.41e−05
pull
Entries 46
Mean 30.15
Std Dev 0

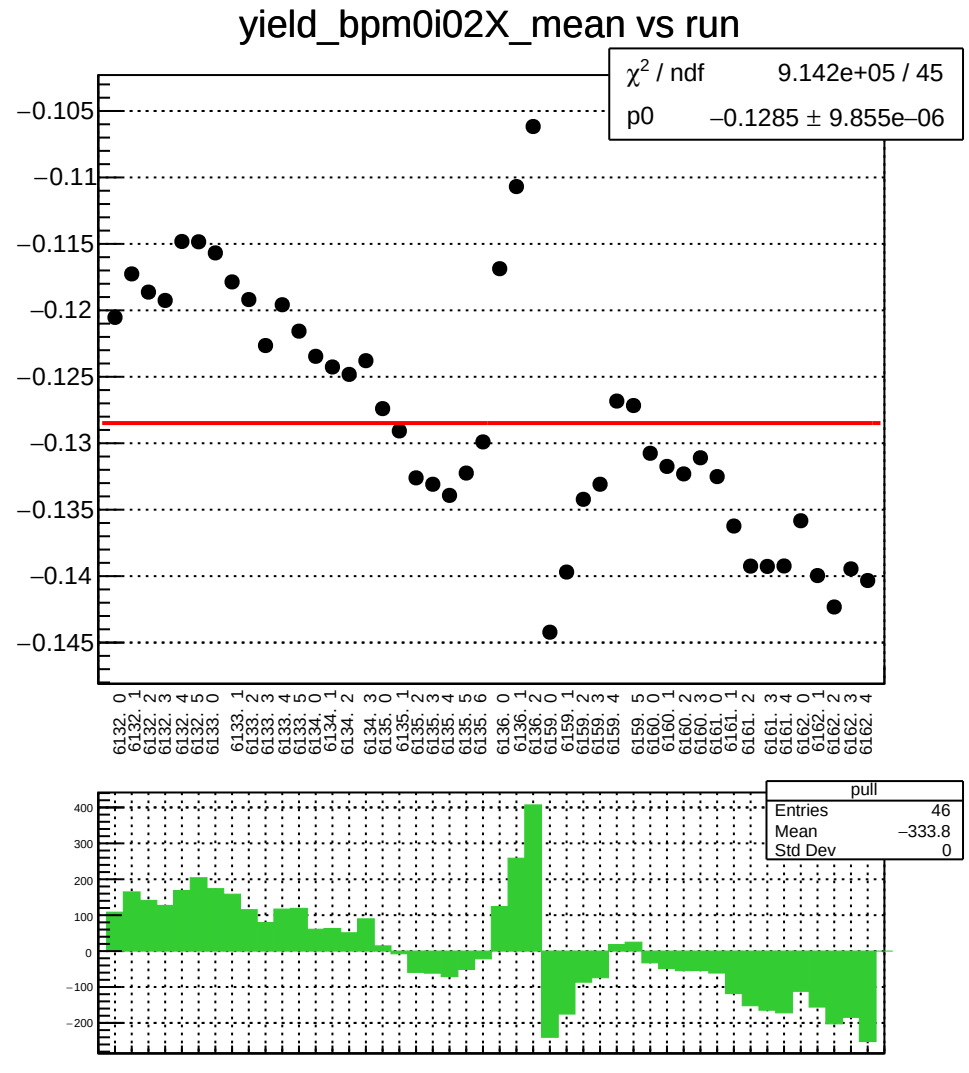

pull1D
Entries 46
Mean 2.081
Std Dev 3.937

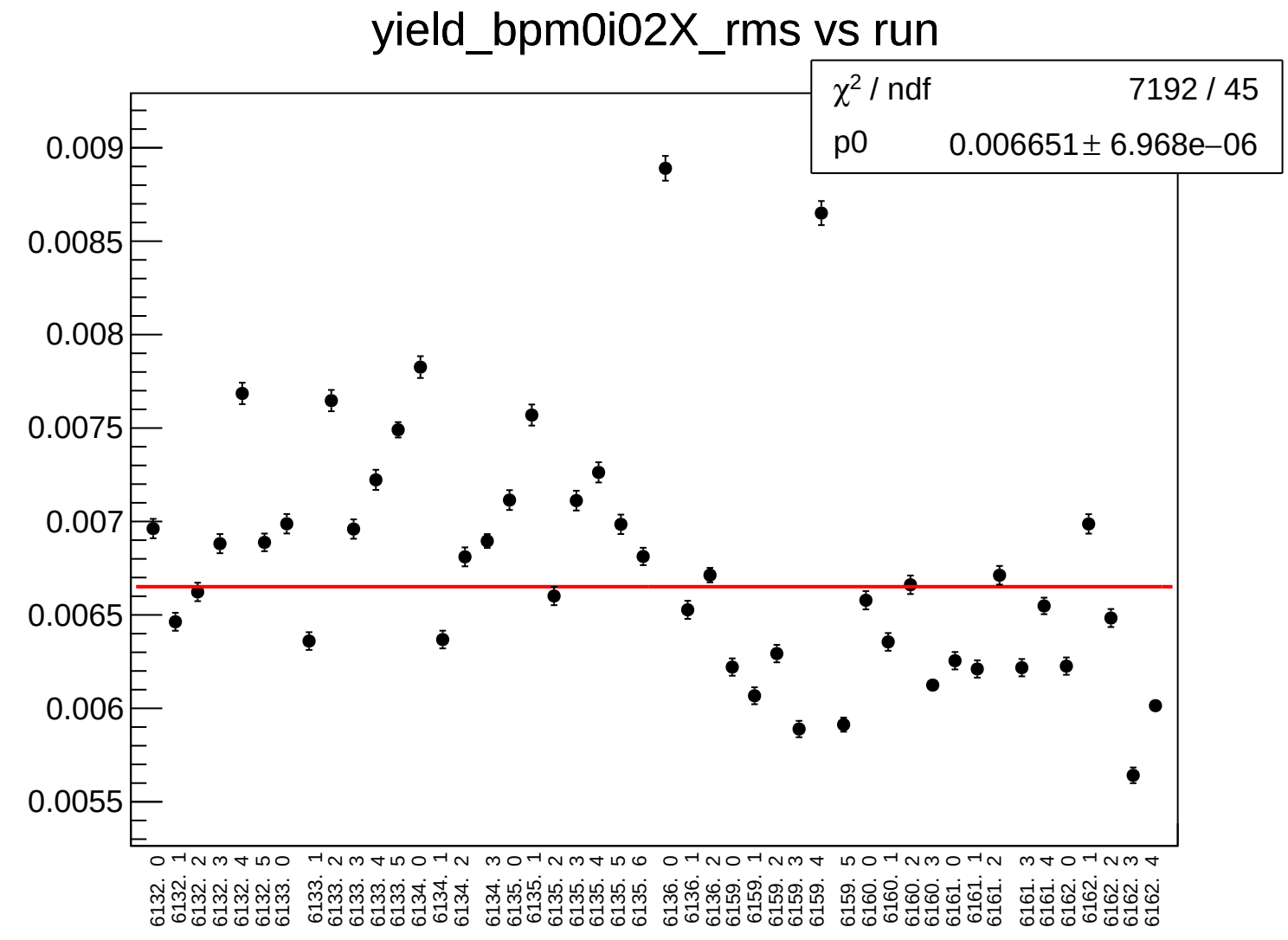

yield_bpm16X_rms vs run
χ² / ndf 2.193e+05 / 45
p0 0.01425 ± 1.704e–05
0.1
0.08
0.06
0.04
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

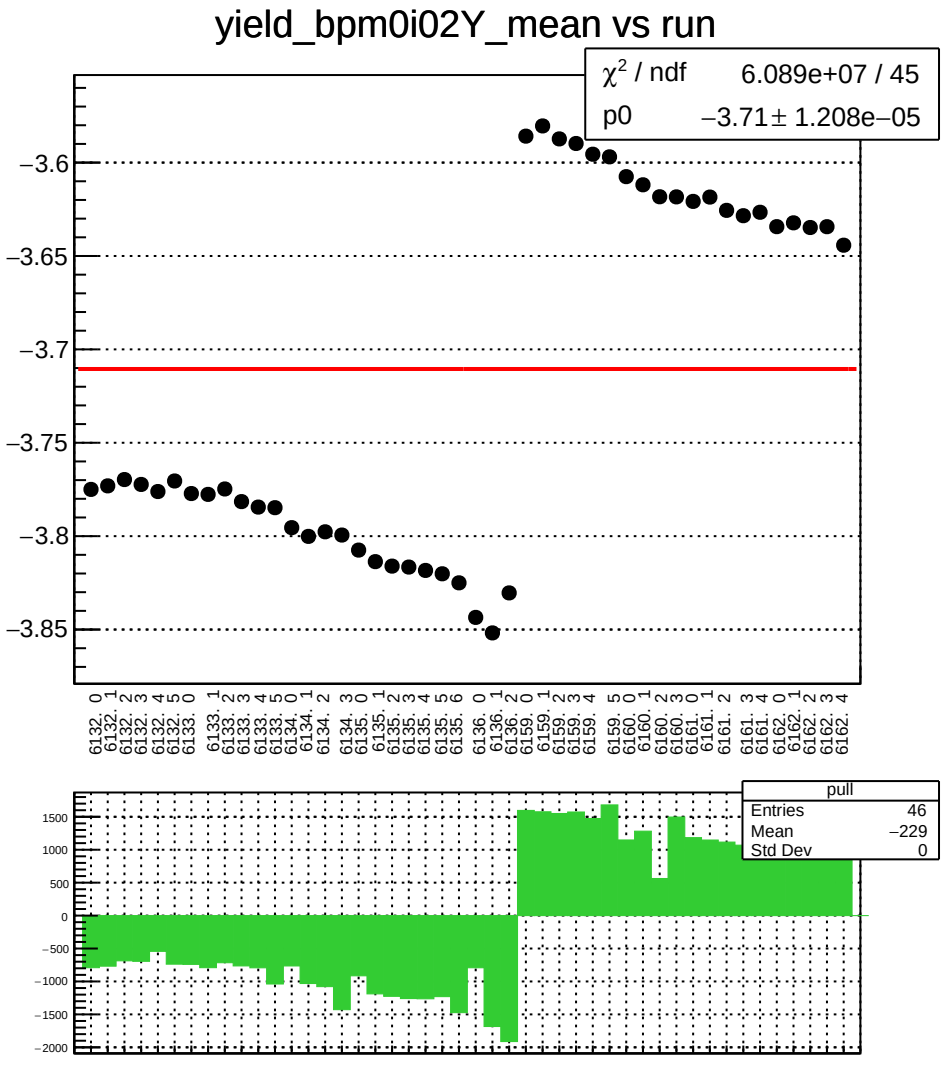

yield_bpm16Y_mean vs run
χ² / ndf 3.877e+04 / 45
p0 −0.225 ± 7.619e−06
−0.216
−0.218
−0.22
−0.222
−0.224
−0.226
−0.228
−0.23
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −61.7
Std Dev 0
60
40
20
0
−20
−40
−60

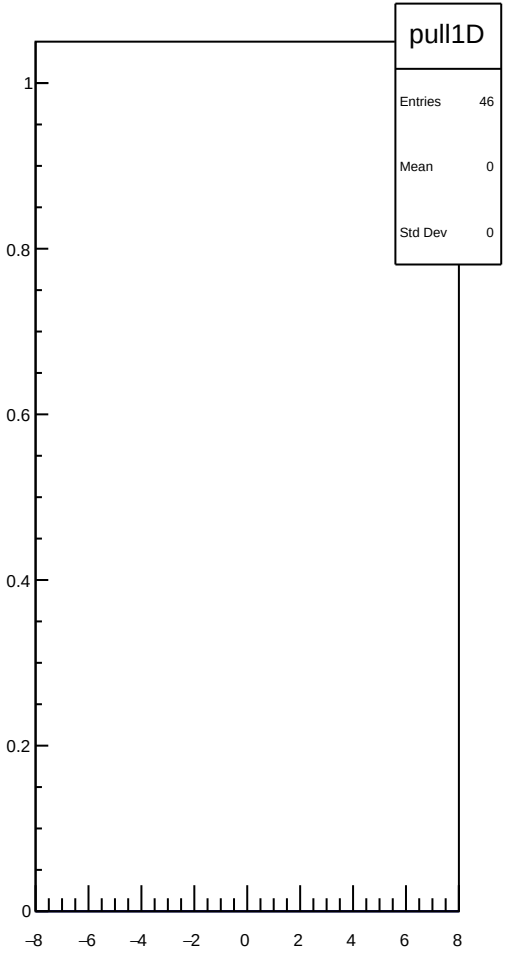

pull1D
Entries 46
Mean 0.7667
Std Dev 6.002
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

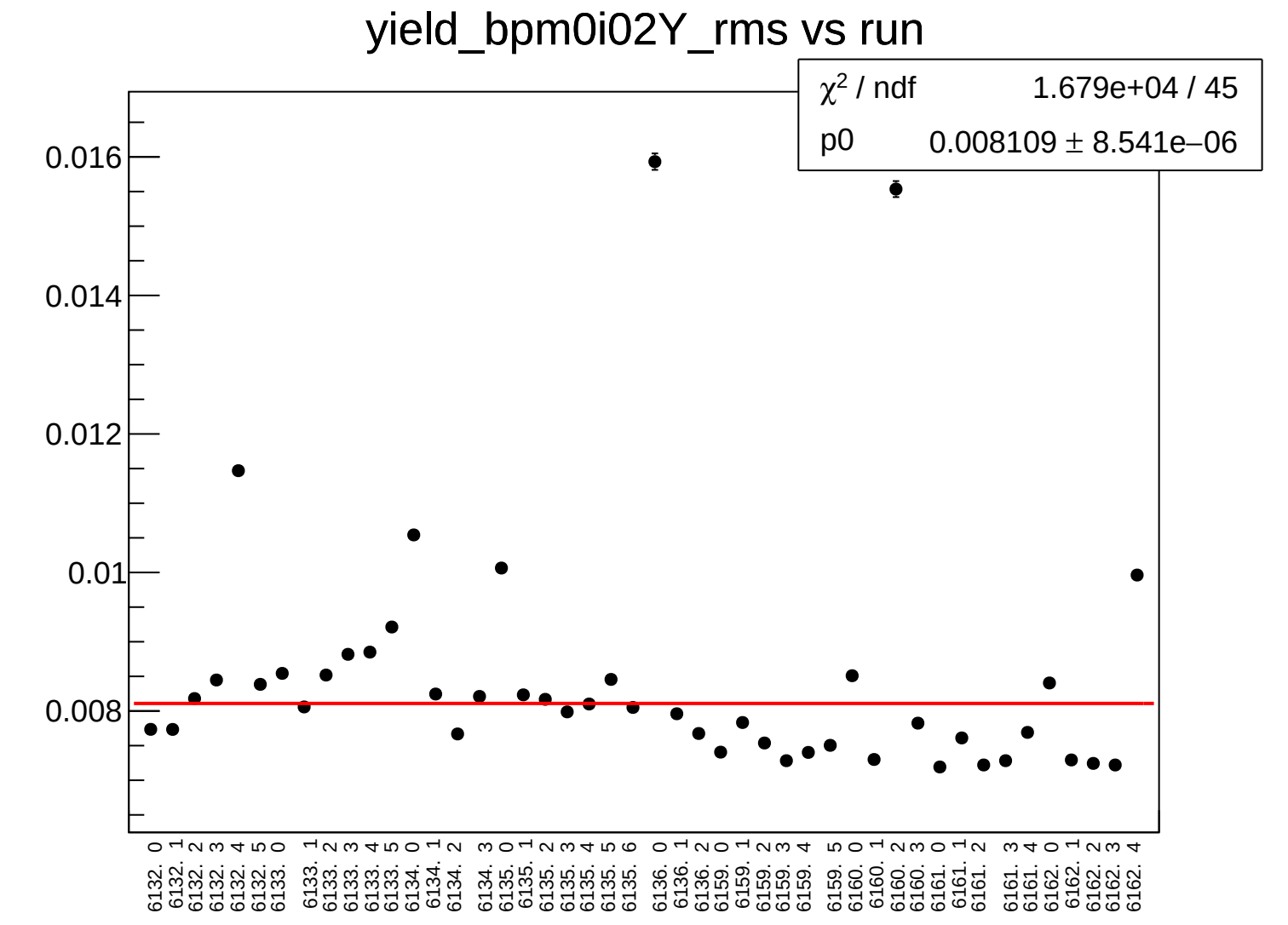

yield_bpm16Y_rms vs run
χ² / ndf 7.982e+04 / 45
p0 0.004933 ± 5.388e−06
0.05
0.04
0.03
0.02
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

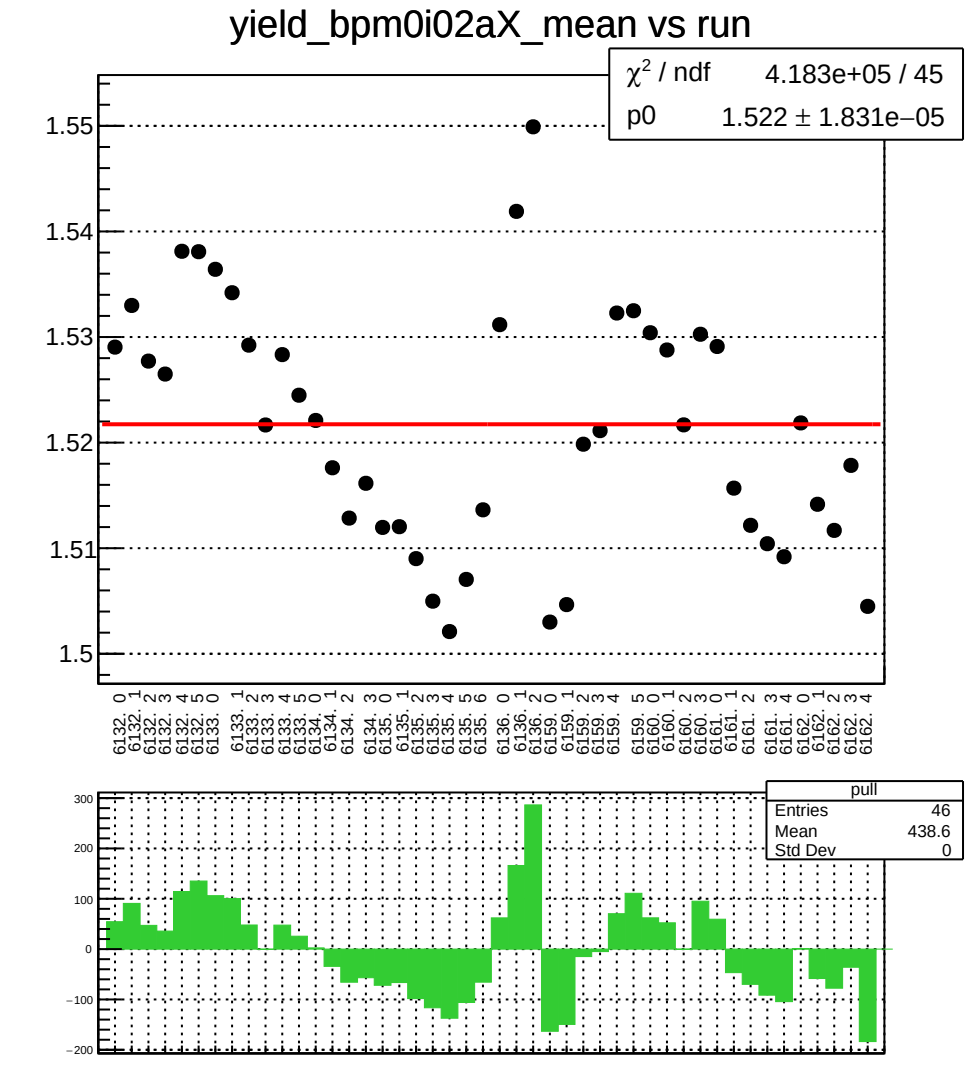

yield_bpm0i02X_mean vs run
χ² / ndf 9.142e+05 / 45
p0 −0.1285 ± 9.855e−06
−0.105
−0.11
−0.115
−0.12
−0.125
−0.13
−0.135
−0.14
−0.145
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −333.8
Std Dev 0
400
300
200
100
0
−100
−200
pull1D
Entries 46
Mean −7.409
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

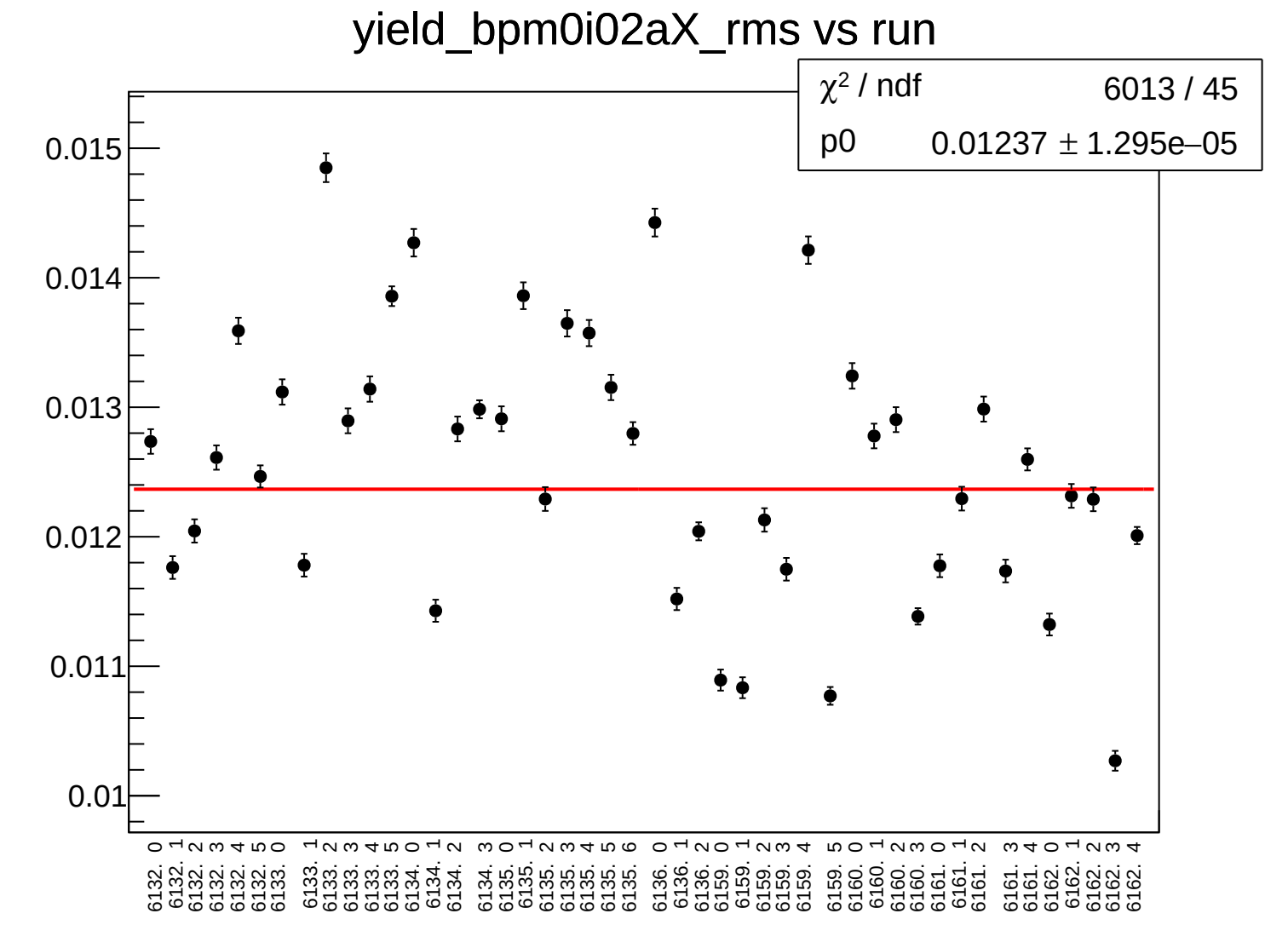

yield_bpm0i02X_rms vs run
χ² / ndf 7192 / 45
p0 0.006651 ± 6.968e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

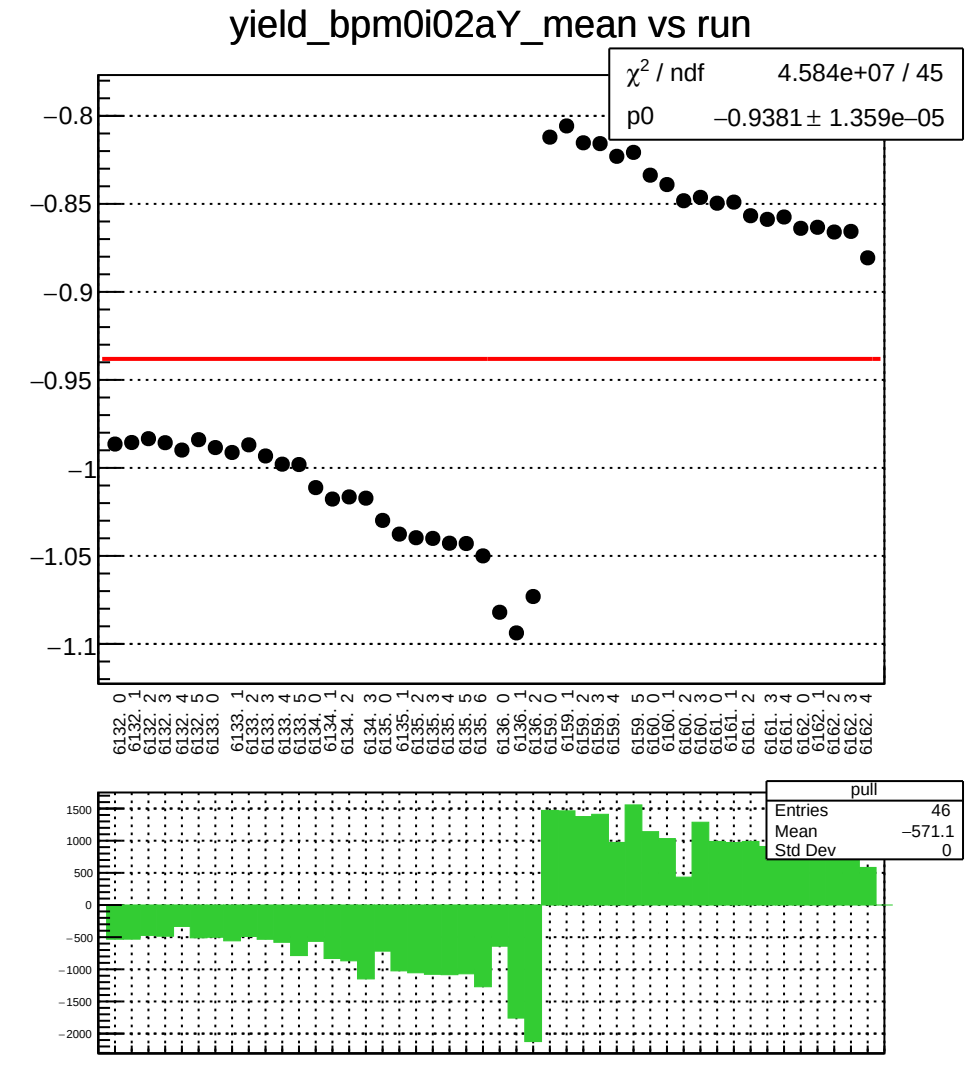

yield_bpm0i02Y_mean vs run
χ² / ndf 6.089e+07 / 45
p0 −3.71 ± 1.208e−05
−3.6
−3.65
−3.7
−3.75
−3.8
−3.85
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −229
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000

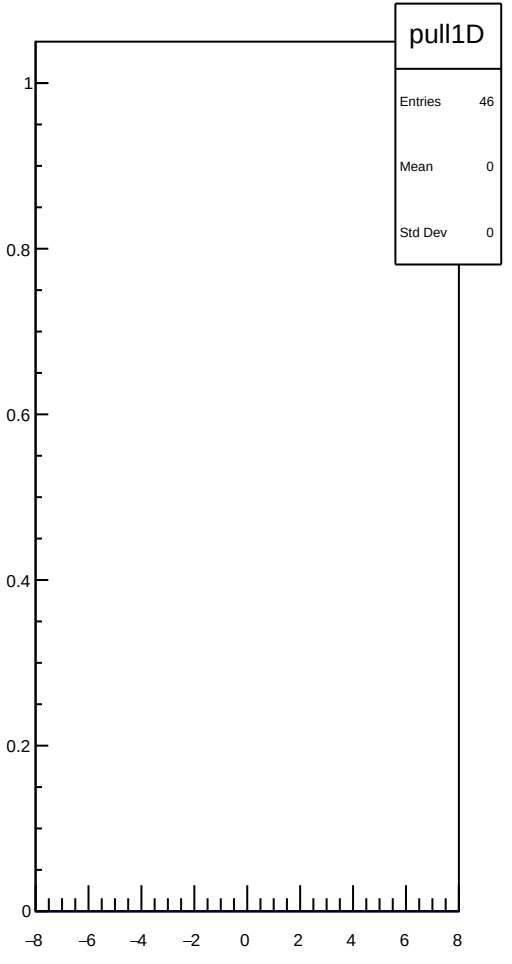

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

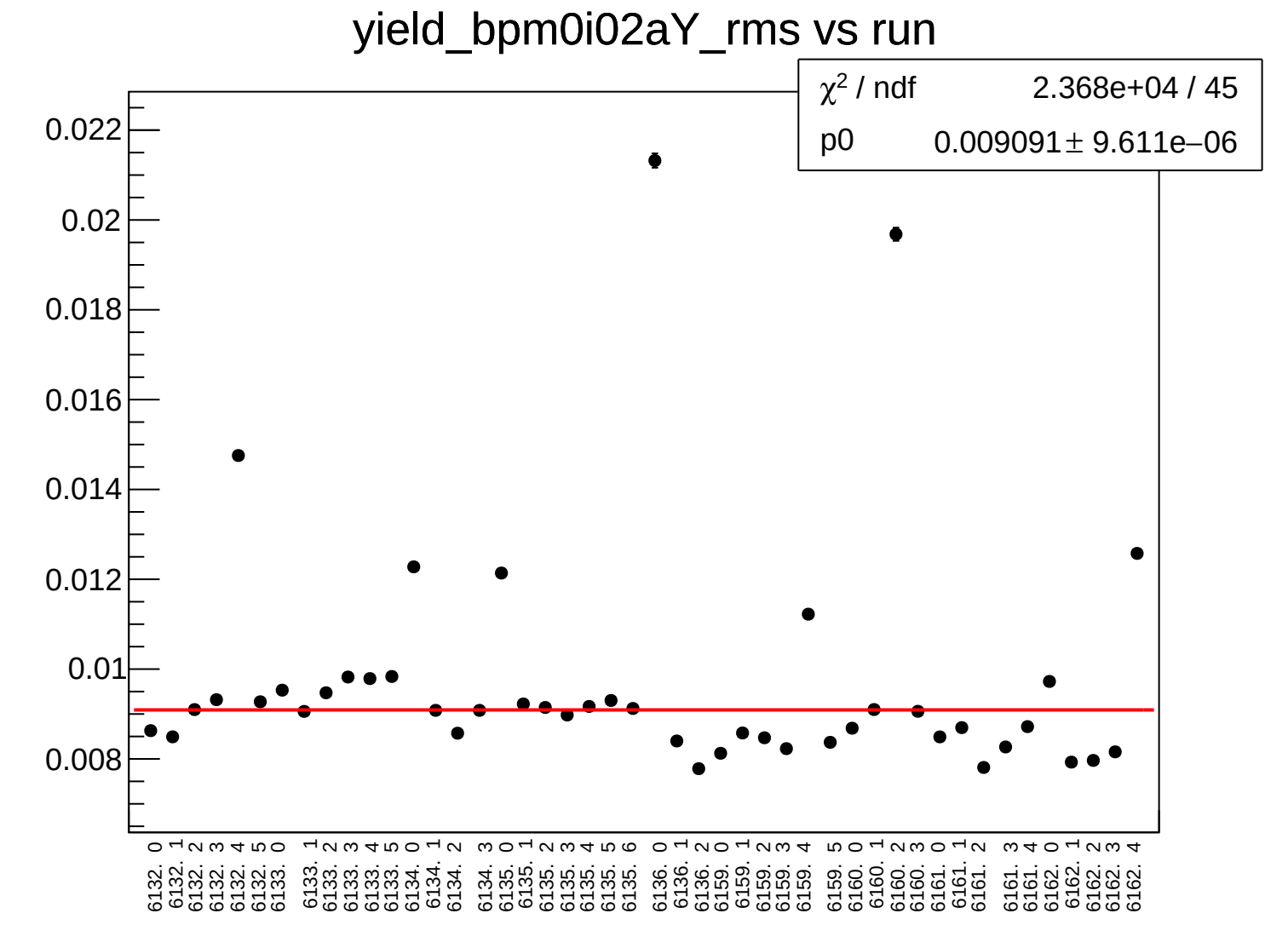

yield_bpm0i02Y_rms vs run
χ² / ndf 1.679e+04 / 45
p0 0.008109 ± 8.541e−06
0.016
0.014
0.012
0.01
0.008
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

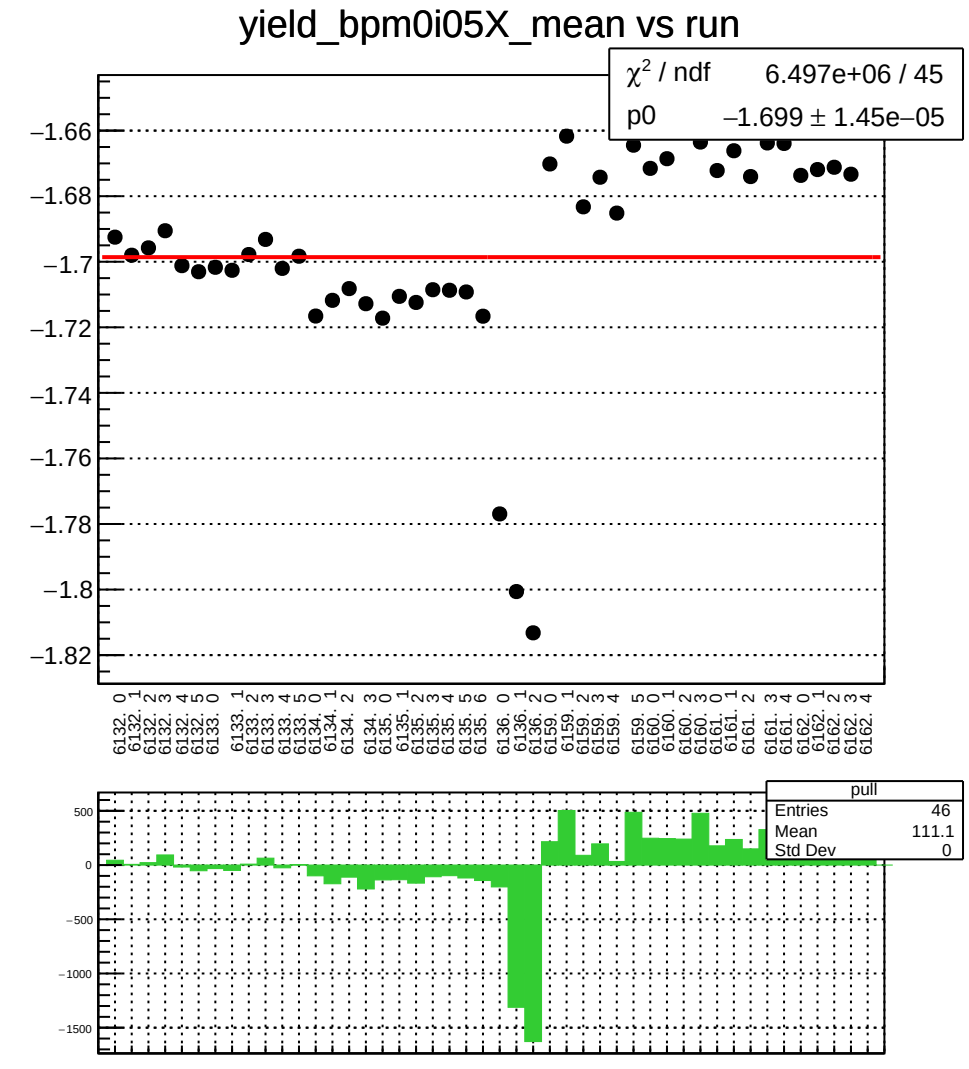

yield_bpm0i02aX_mean vs run
χ² / ndf 4.183e+05 / 45
p0 1.522 ± 1.831e−05
1.55
1.54
1.53
1.52
1.51
1.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 438.6
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 46
Mean −0.457
Std Dev 2.448
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

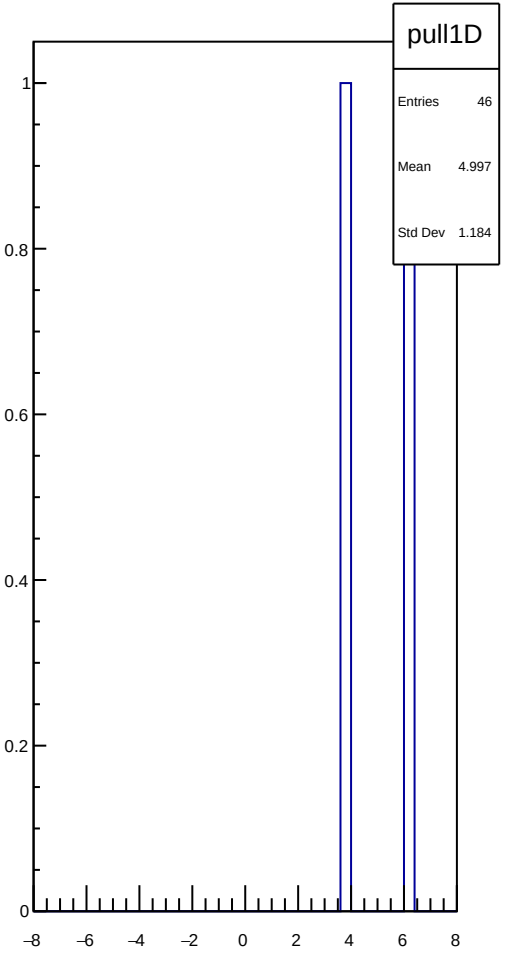

yield_bpm0i02aX_rms vs run
χ² / ndf 6013 / 45
p0 0.01237 ± 1.295e–05
0.015
0.014
0.013
0.012
0.011
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_bpm0i02aY_mean vs run
χ² / ndf 4.584e+07 / 45
p0 −0.9381 ± 1.359e−05
−0.8
−0.85
−0.9
−0.95
−1
−1.05
−1.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −571.1
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000


pull1D
Entries 46
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_bpm0i02aY_rms vs run
χ² / ndf 2.368e+04 / 45
p0 0.009091 ± 9.611e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_bpm0i05X_mean vs run
χ² / ndf 6.497e+06 / 45
p0 −1.699 ± 1.45e−05
−1.66
−1.68
−1.7
−1.72
−1.74
−1.76
−1.78
−1.8
−1.82
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 111.1
Std Dev 0
500
0
−500
−1000
−1500


pull1D
Entries 46
Mean 4.997
Std Dev 1.184
1
0.8
0.6
0.4
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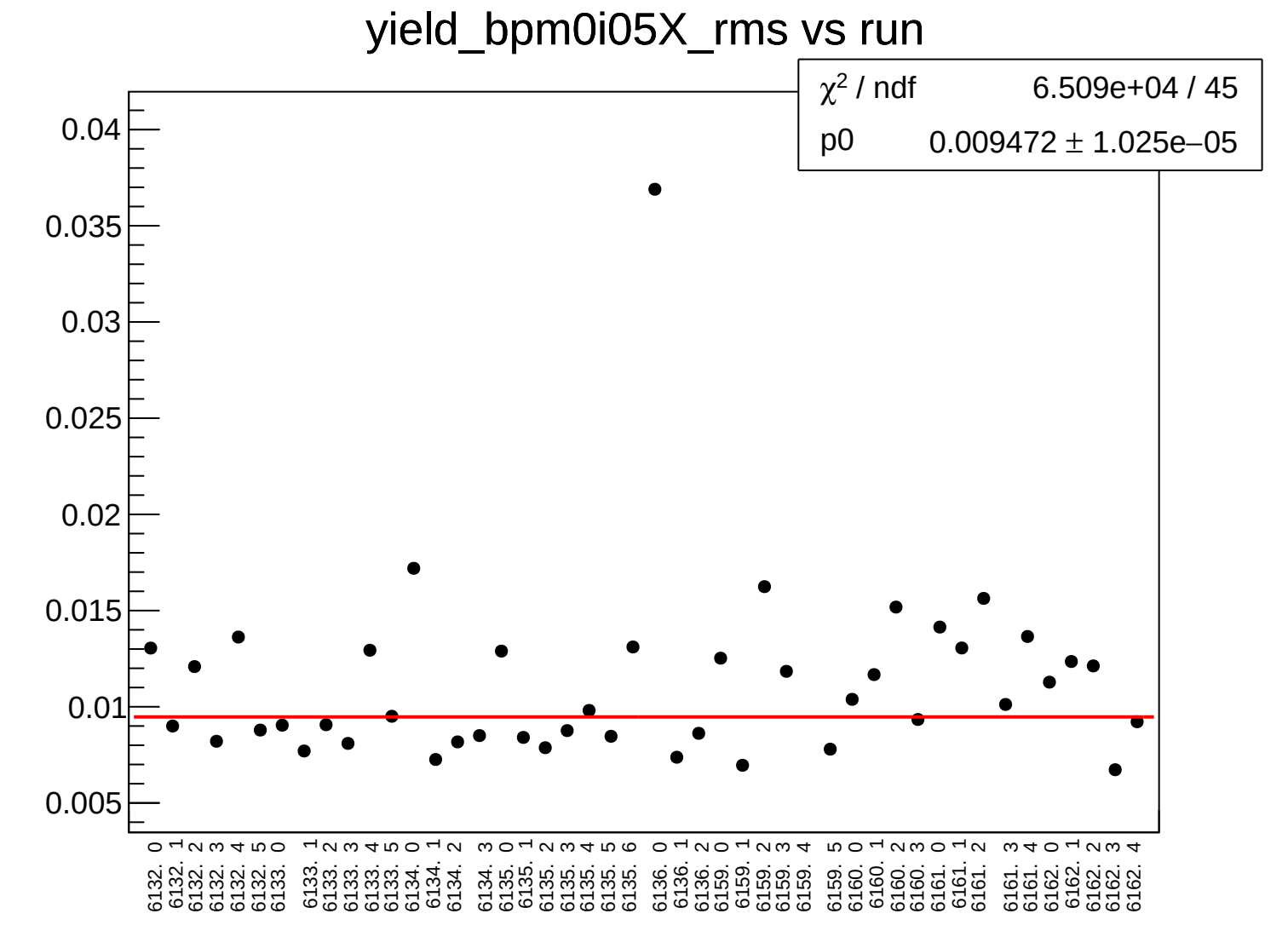
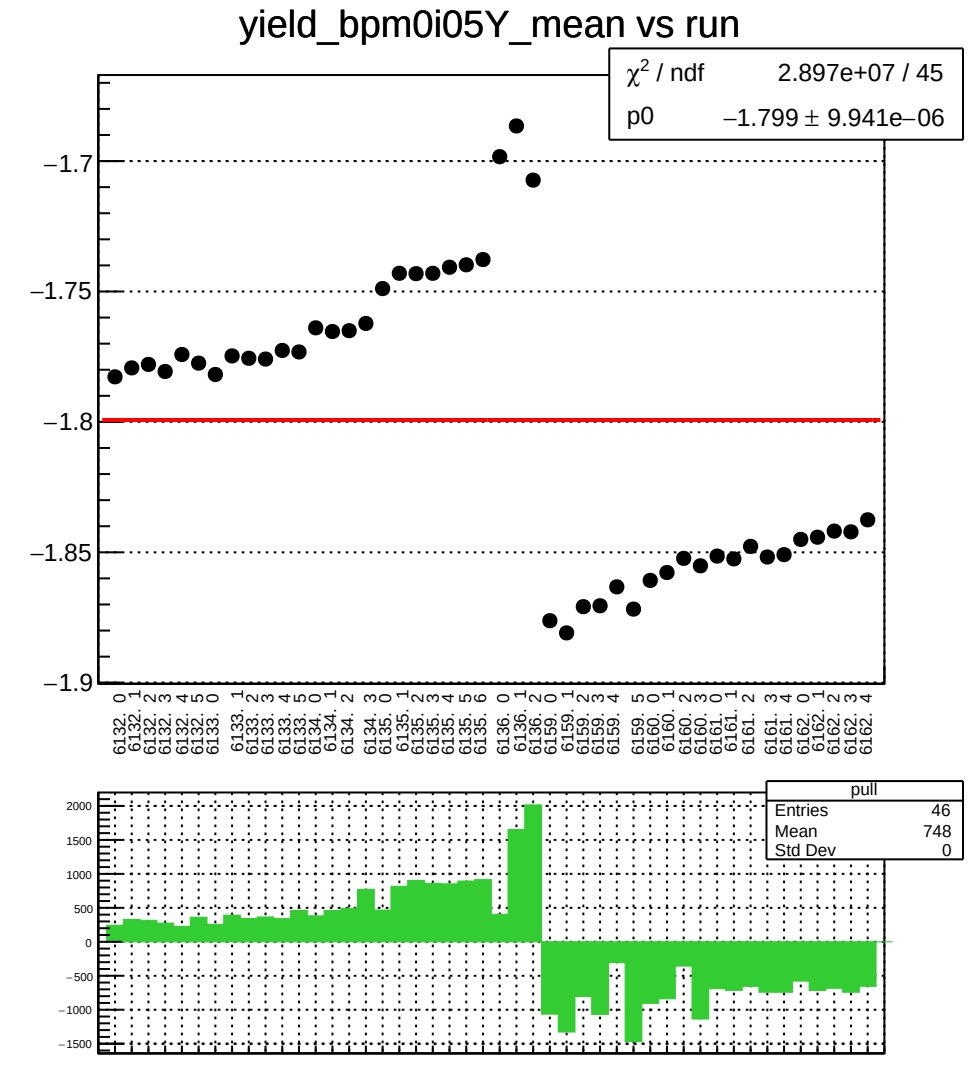
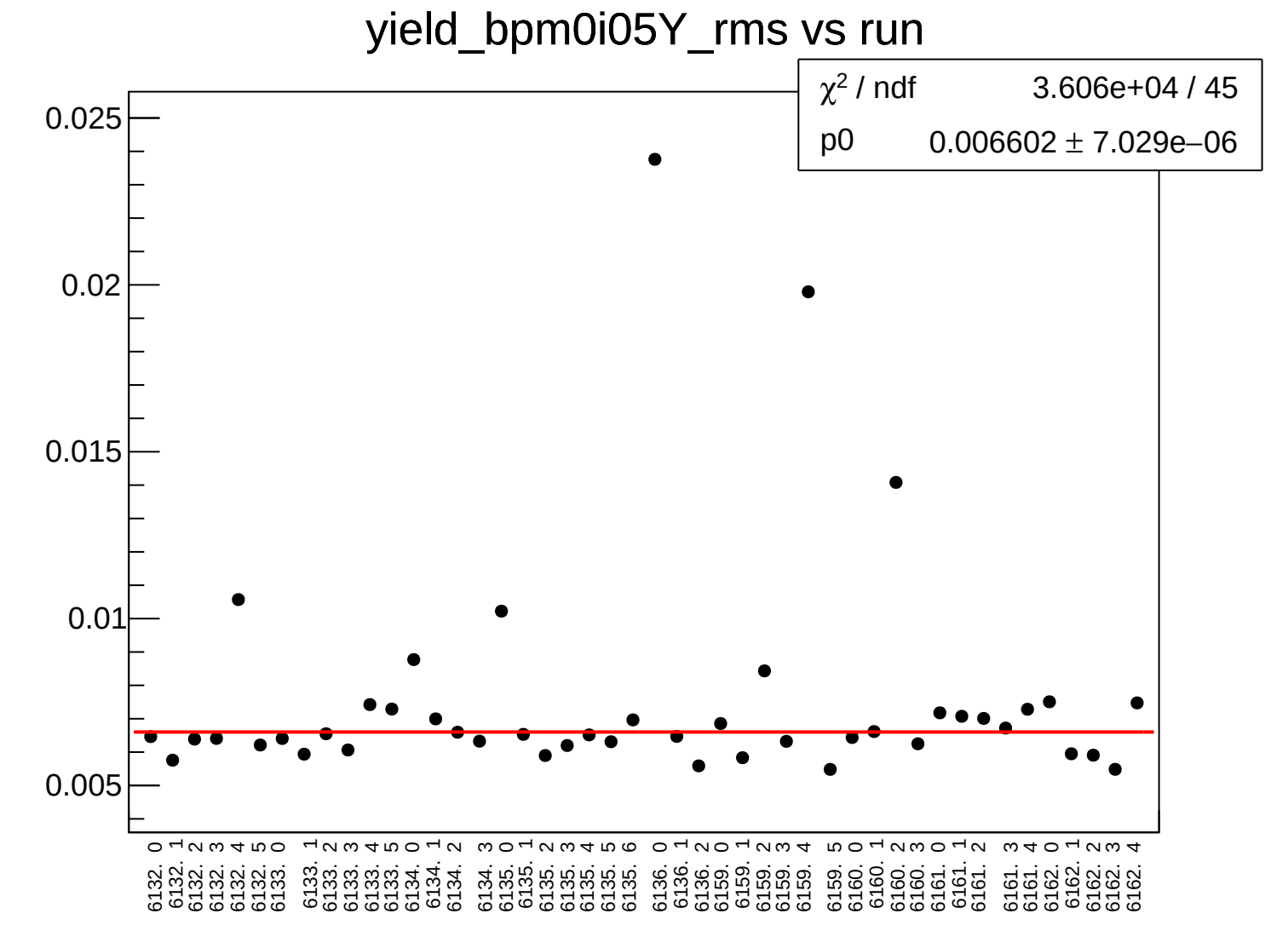
−6
−4
−2
0
2
4
6
8


yield_bpm0i05X_rms vs run
χ² / ndf 6.509e+04 / 45
p0 0.009472 ± 1.025e−05
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
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_bpm0i05Y_mean vs run
χ² / ndf 2.897e+07 / 45
p0 −1.799 ± 9.941e−06
−1.7
−1.75
−1.8
−1.85
−1.9
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 748
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500
pull1D
Entries 46
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_bpm0i05Y_rms vs run
χ² / ndf 3.606e+04 / 45
p0 0.006602 ± 7.029e−06
0.025
0.02
0.015
0.01
0.005
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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
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6136. 2
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6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
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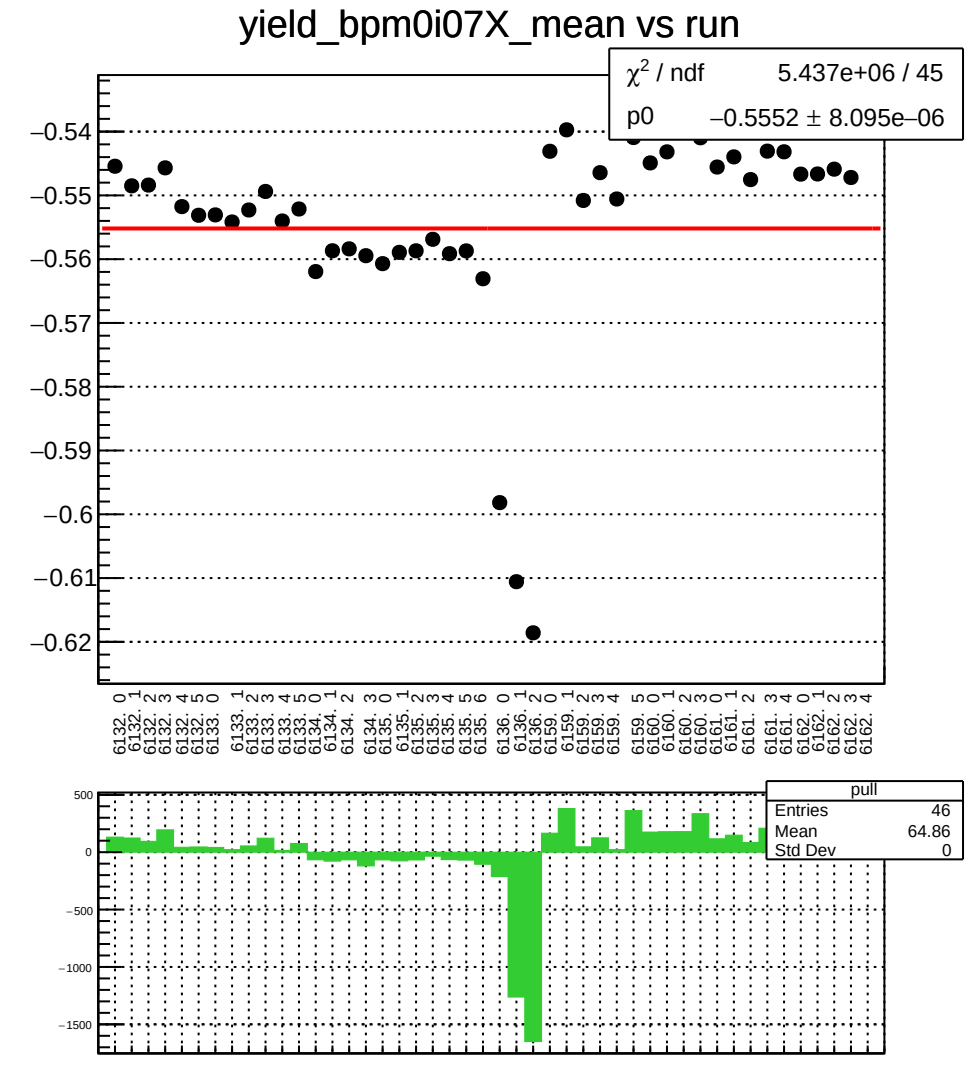
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_bpm0i07X_mean vs run
χ² / ndf 5.437e+06 / 45
p0 −0.5552 ± 8.095e−06
−0.54
−0.55
−0.56
−0.57
−0.58
−0.59
−0.6
−0.61
−0.62
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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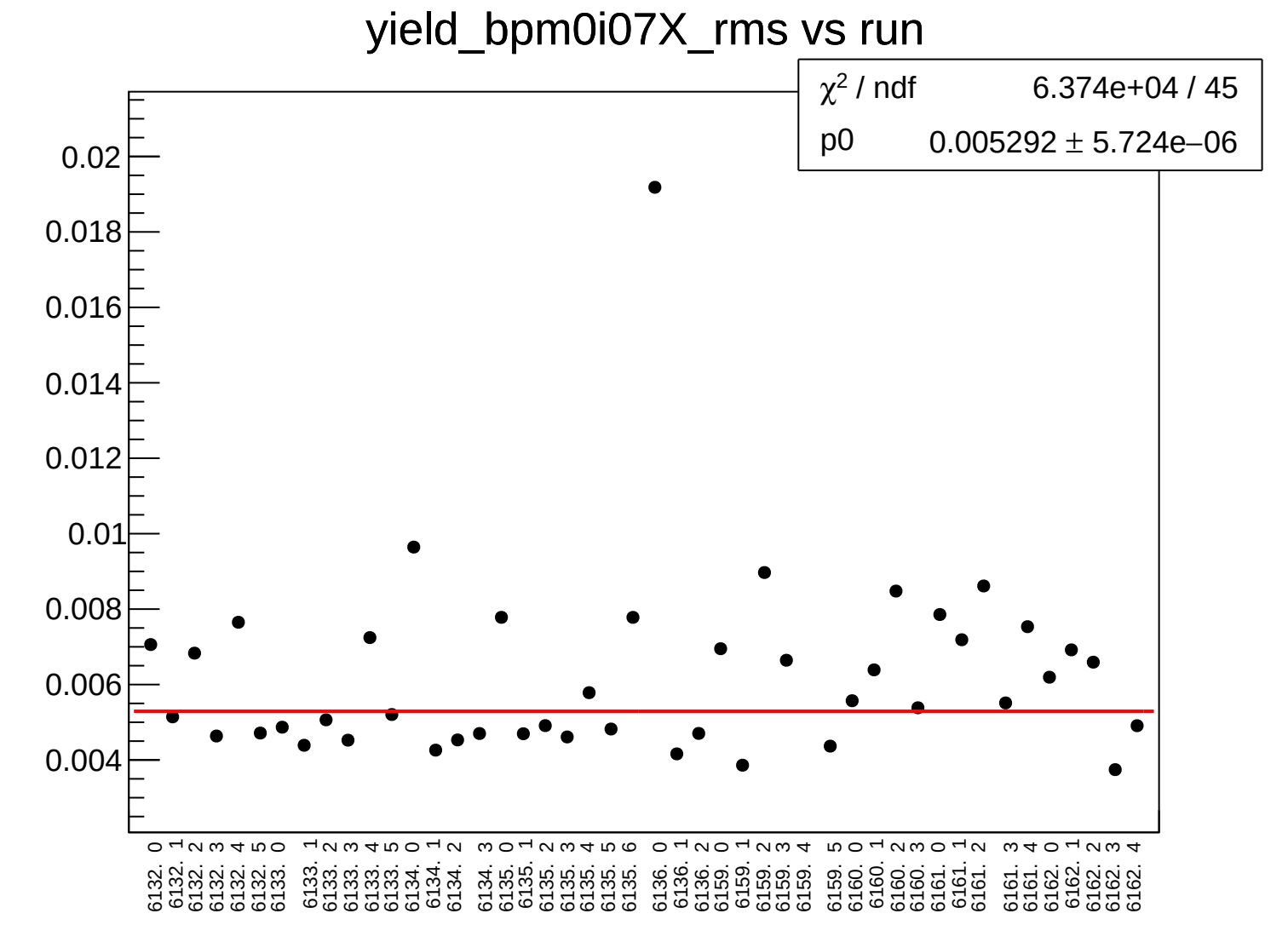
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 64.86
Std Dev 0
500
0
−500
−1000
−1500
pull1D
Entries 46
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_bpm0i07X_rms vs run
χ² / ndf 6.374e+04 / 45
p0 0.005292 ± 5.724e−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
6132. 5
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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
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6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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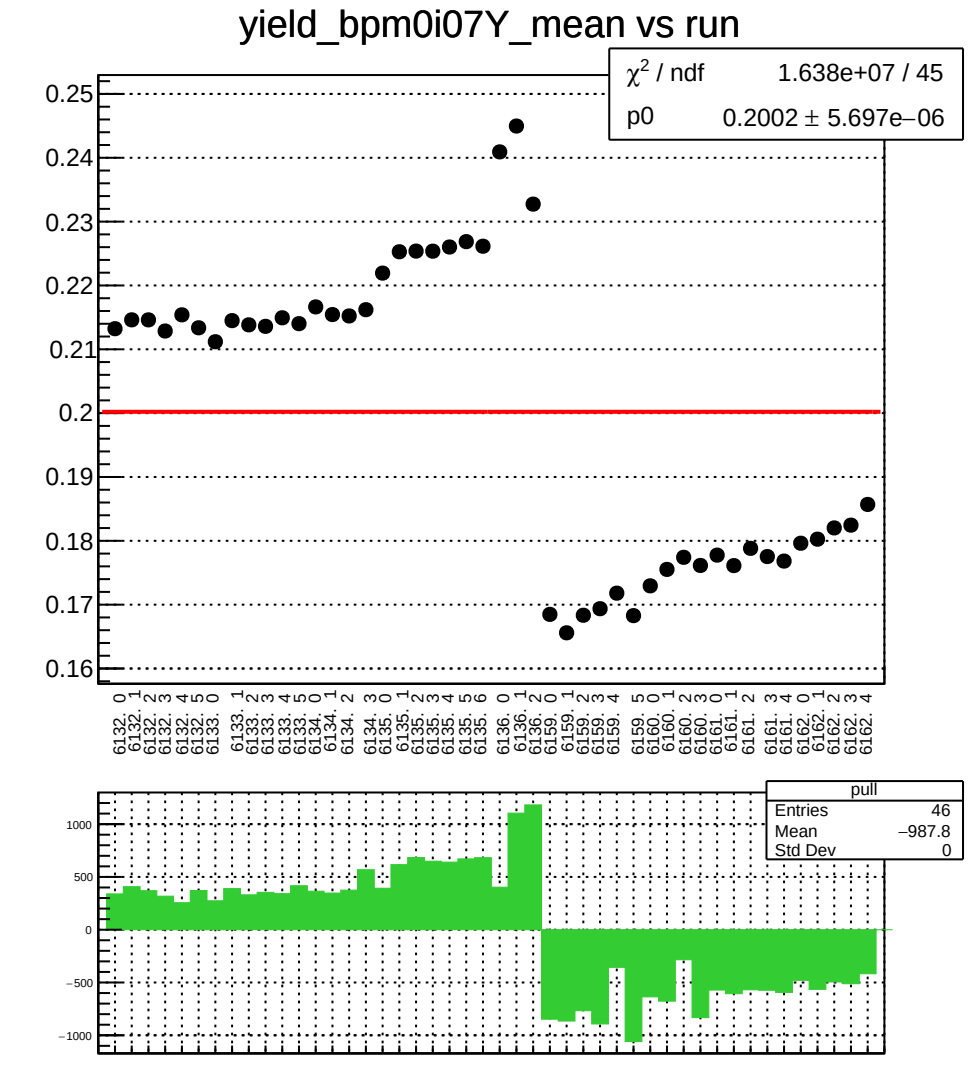
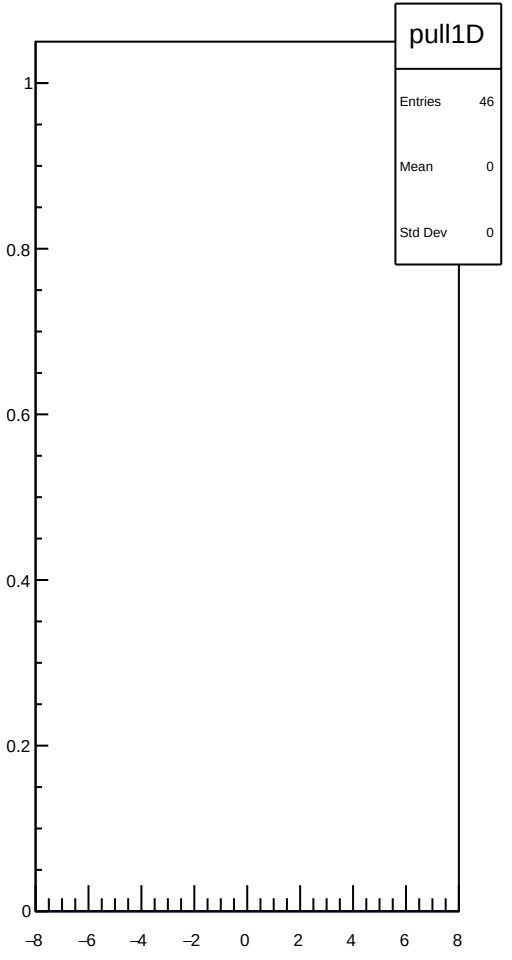
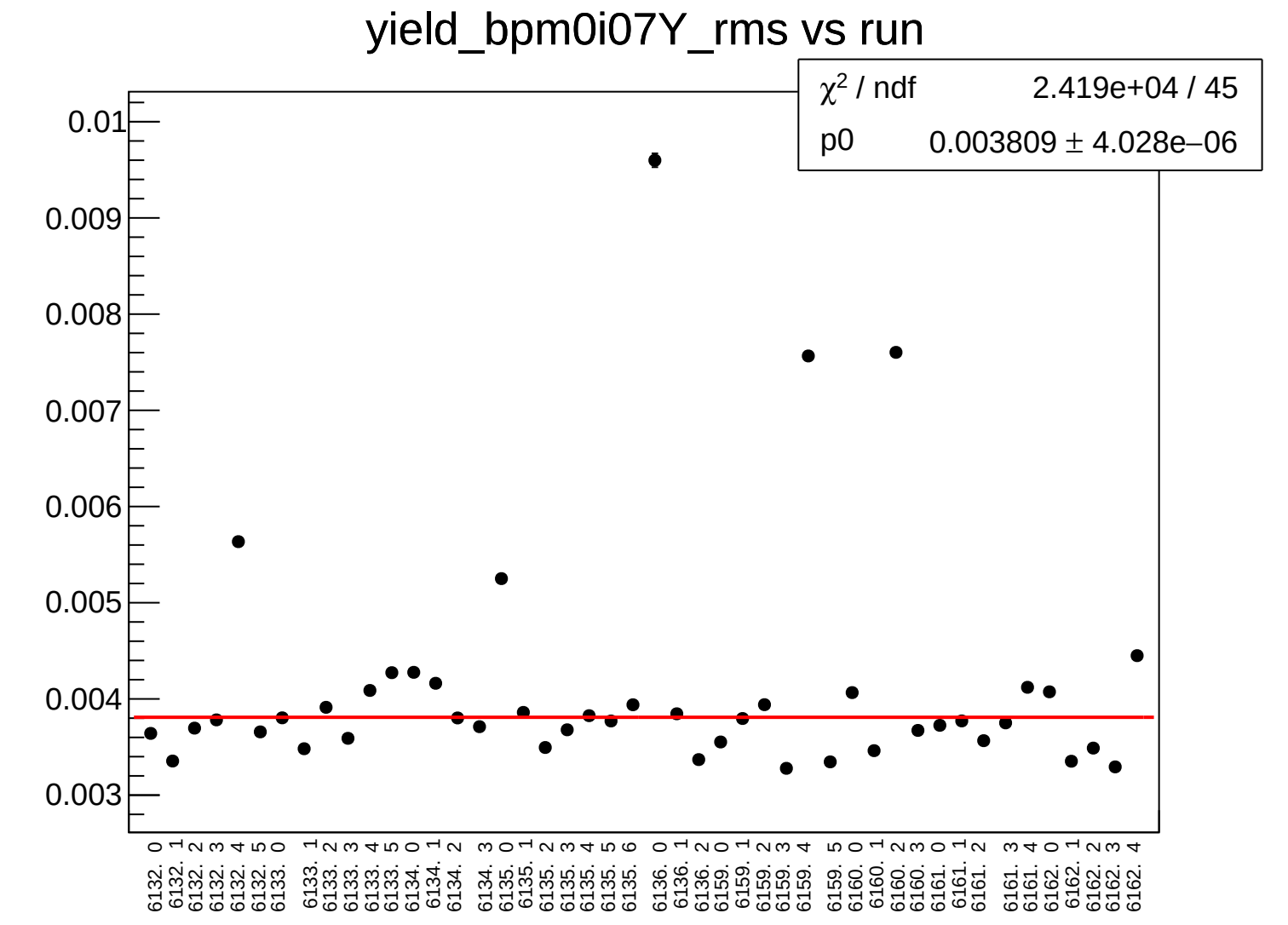
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_bpm0i07Y_mean vs run
χ² / ndf 1.638e+07 / 45
p0 0.2002 ± 5.697e−06
0.25
0.24
0.23
0.22
0.21
0.2
0.19
0.18
0.17
0.16
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −987.8
Std Dev 0
1000
500
0
−500
−1000


pull1D
Entries 46
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_bpm0i07Y_rms vs run
χ² / ndf 2.419e+04 / 45
p0 0.003809 ± 4.028e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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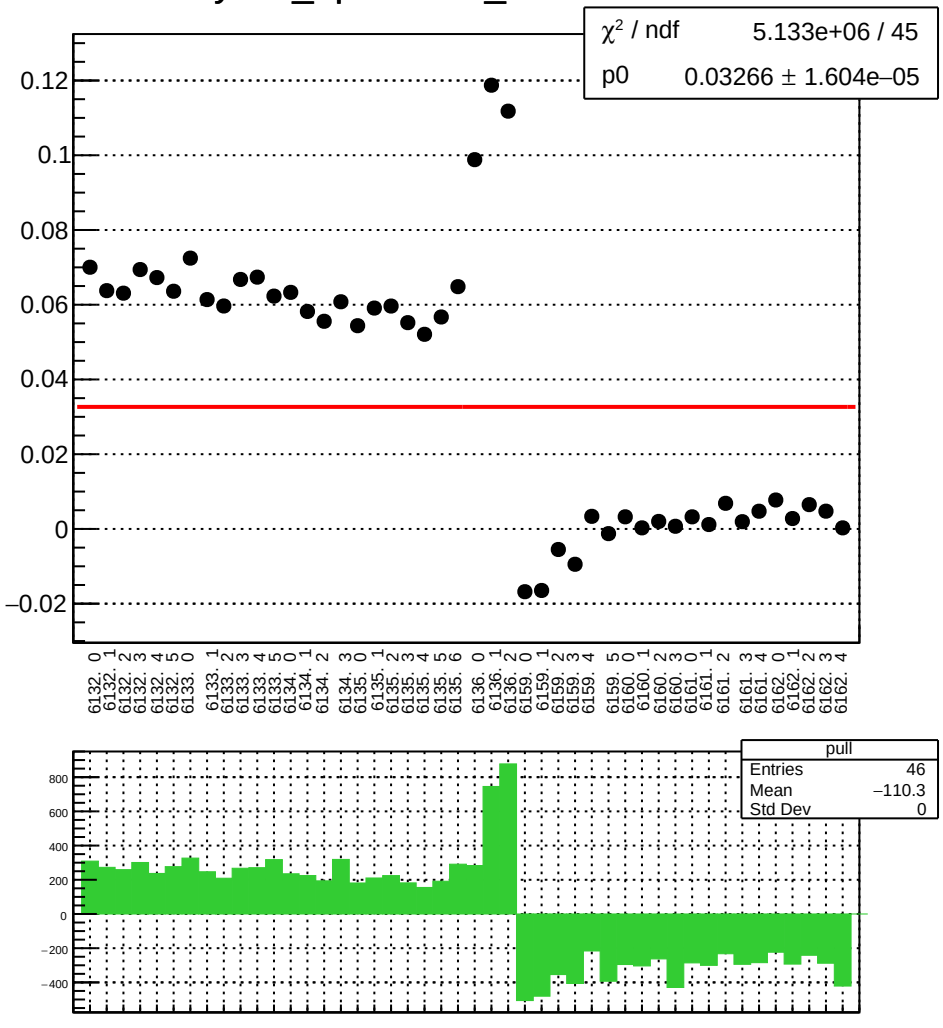
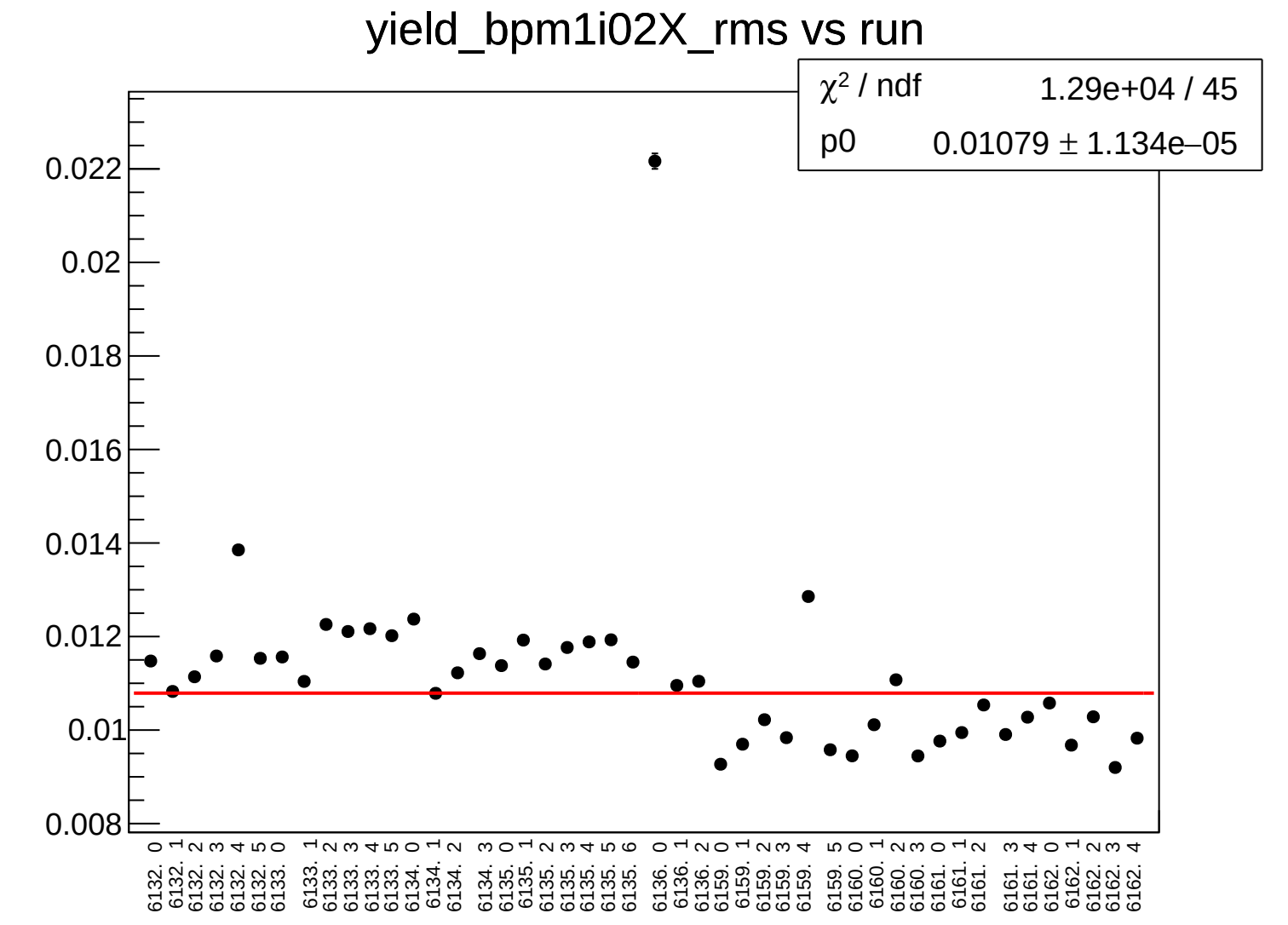
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_bpm1i02X_mean vs run
χ² / ndf 5.133e+06 / 45
p0 0.03266 ± 1.604e−05
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −110.3
Std Dev 0
800
600
400
200
0
−200
−400
pull1D
Entries 46
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_bpm1i02X_rms vs run
χ² / ndf 1.29e+04 / 45
p0 0.01079 ± 1.134e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
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6136. 0
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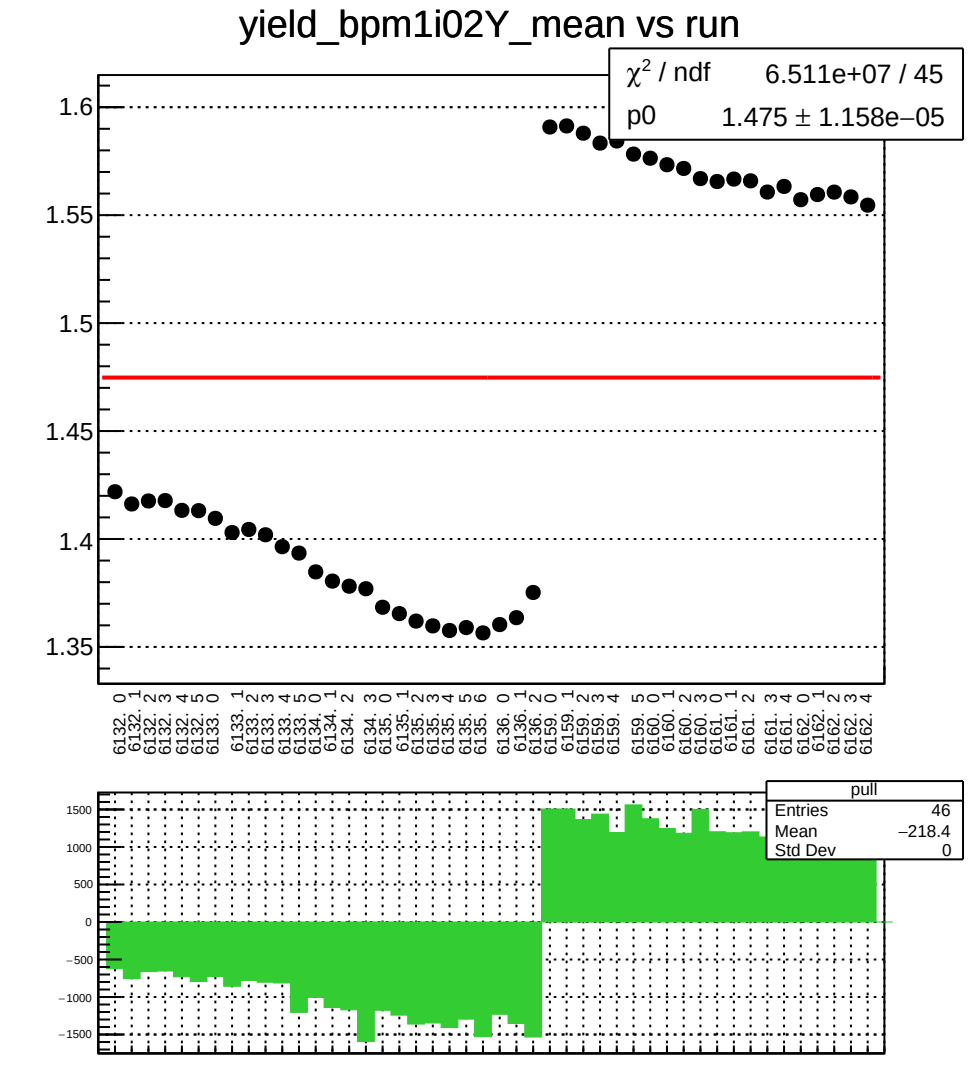
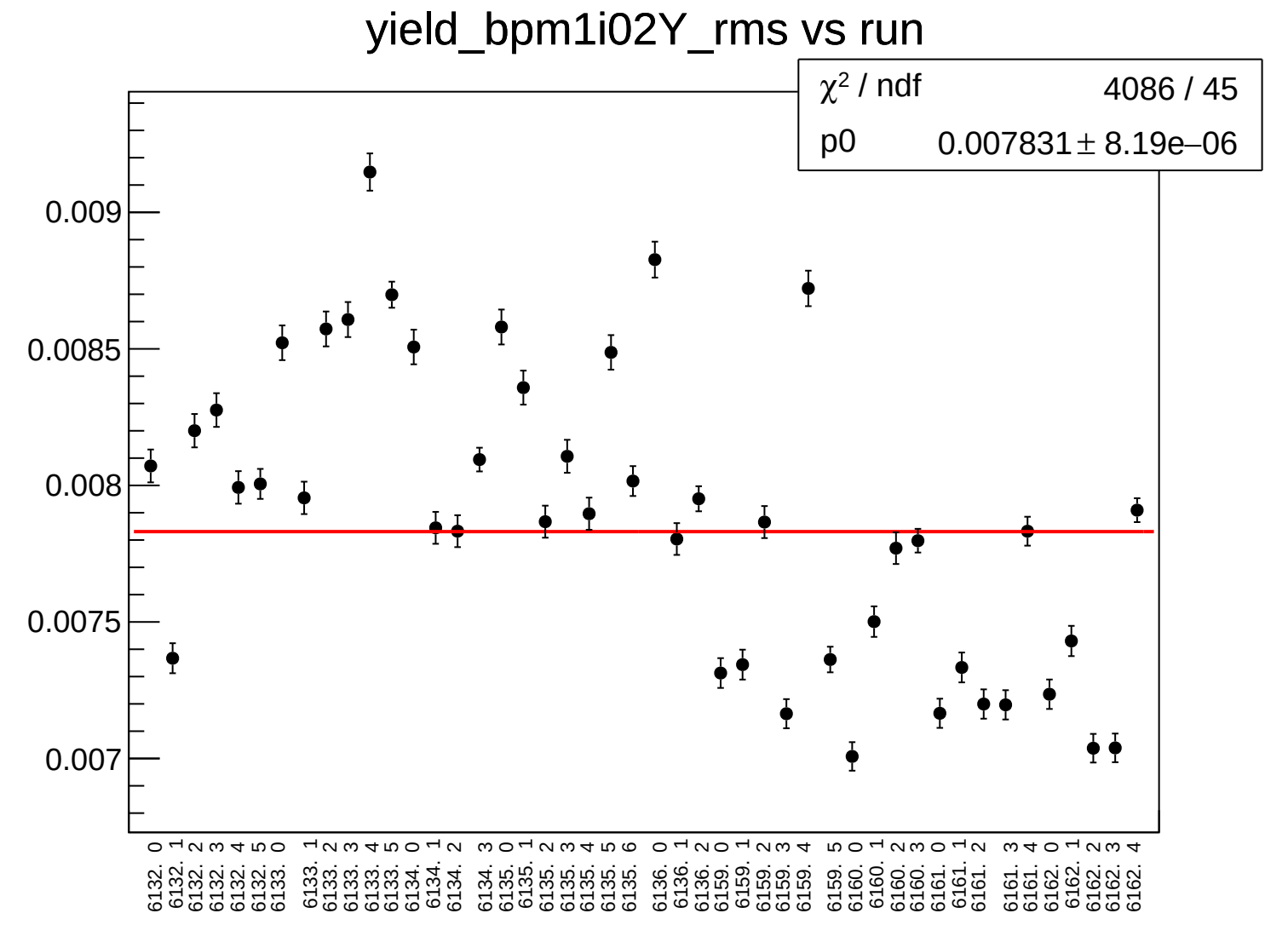
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_bpm1i02Y_mean vs run
χ² / ndf 6.511e+07 / 45
p0 1.475 ± 1.158e−05
1.6
1.55
1.5
1.45
1.4
1.35
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −218.4
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
pull1D
Entries 46
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_bpm1i02Y_rms vs run
χ² / ndf 4086 / 45
p0 0.007831 ± 8.19e–06
0.009
0.0085
0.008
0.0075
0.007
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
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6135. 1
6135. 2
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6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
6159. 0
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6159. 2
6159. 3
6159. 4
6159. 5
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6160. 1
6160. 2
6160. 3
6161. 0
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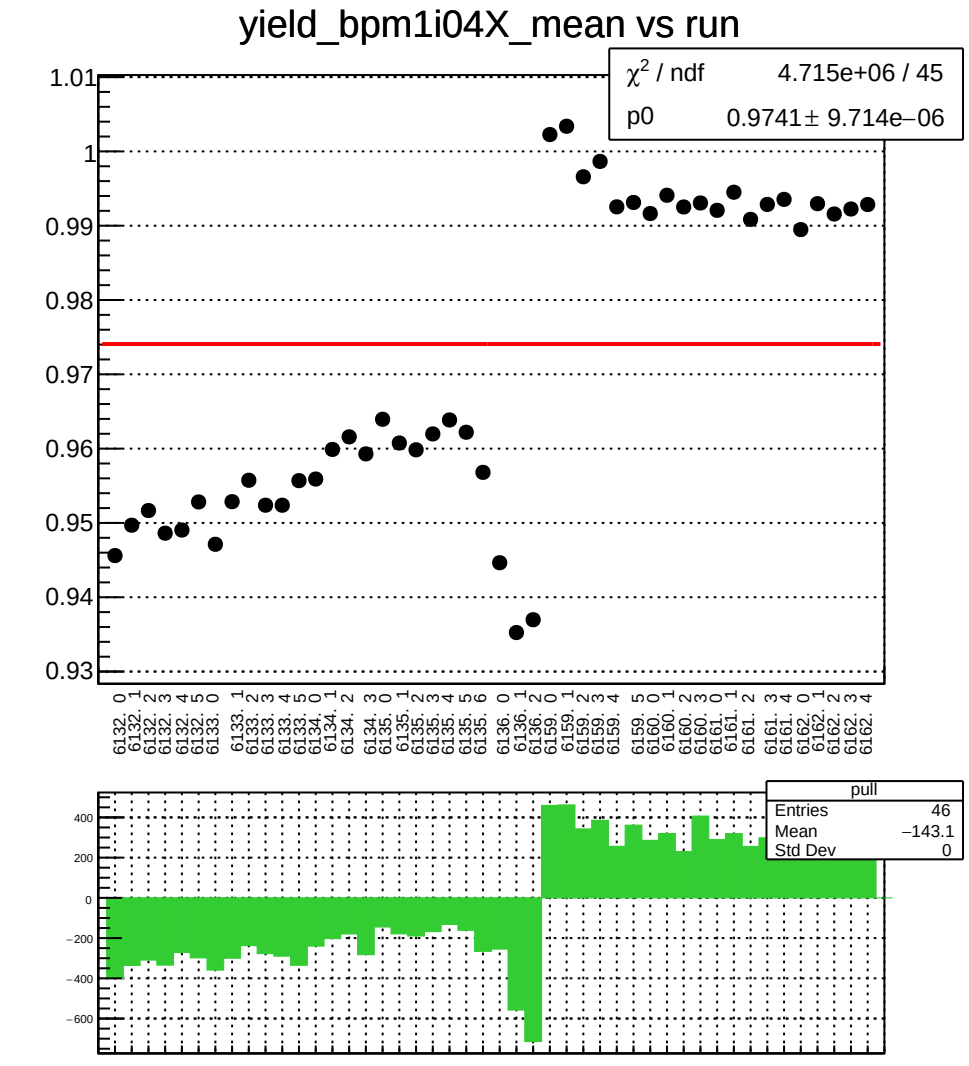
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_bpm1i04X_mean vs run
χ² / ndf 4.715e+06 / 45
p0 0.9741 ± 9.714e−06
1.01
1
0.99
0.98
0.97
0.96
0.95
0.94
0.93
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
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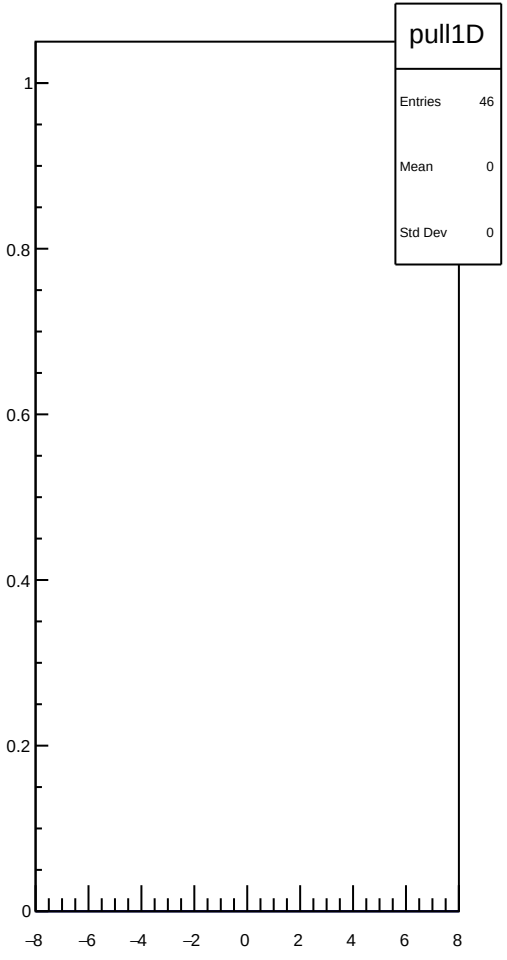
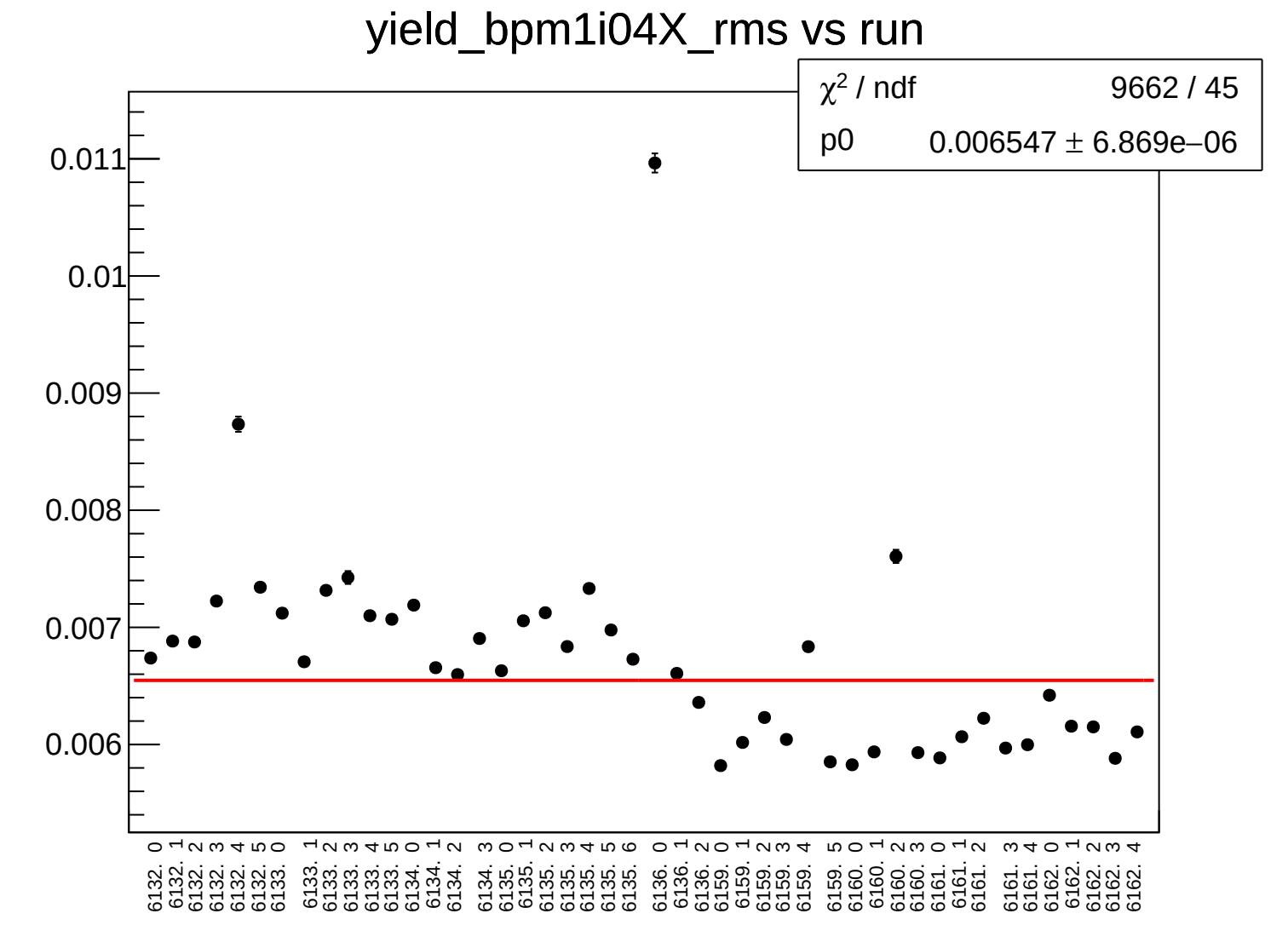
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −143.1
Std Dev 0
400
200
0
−200
−400
−600


pull1D
Entries 46
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_bpm1i04X_rms vs run
χ² / ndf 9662 / 45
p0 0.006547 ± 6.869e−06
0.011
0.01
0.009
0.008
0.007
0.006
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
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6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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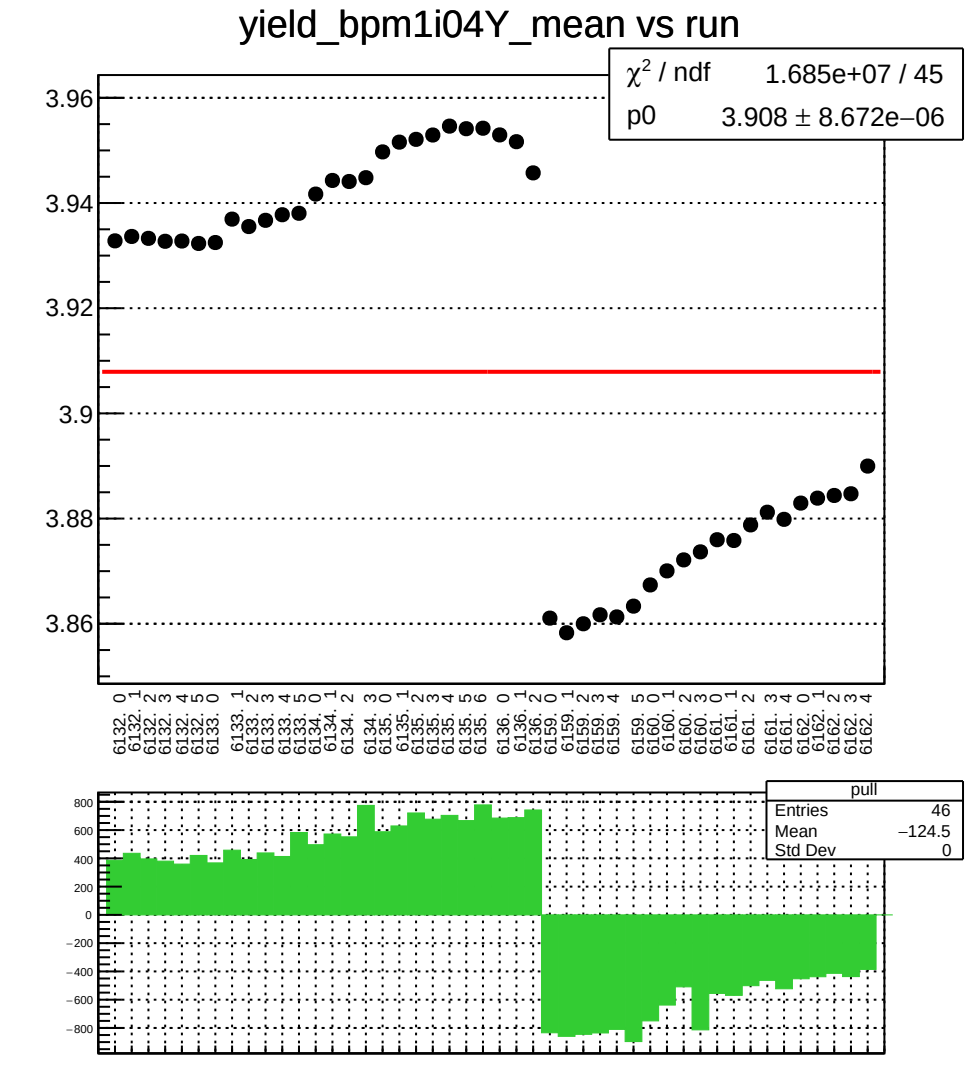
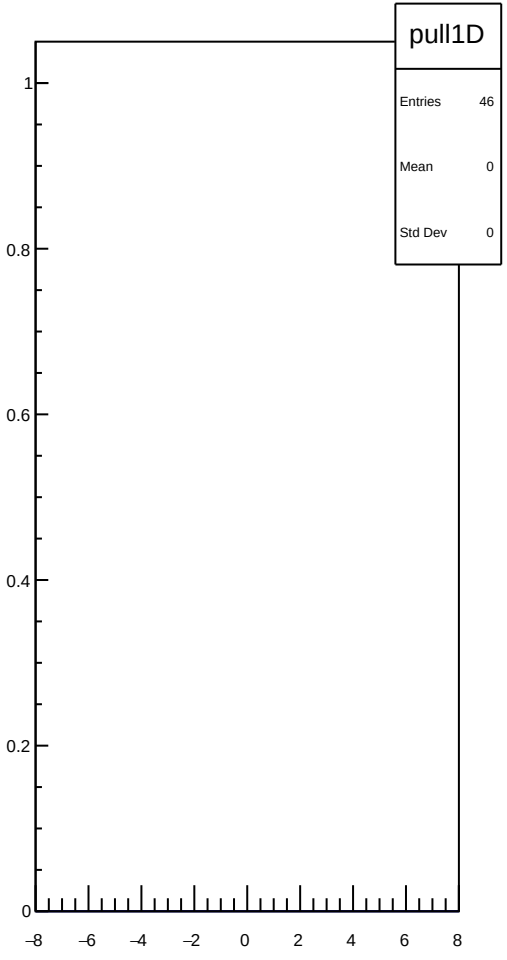
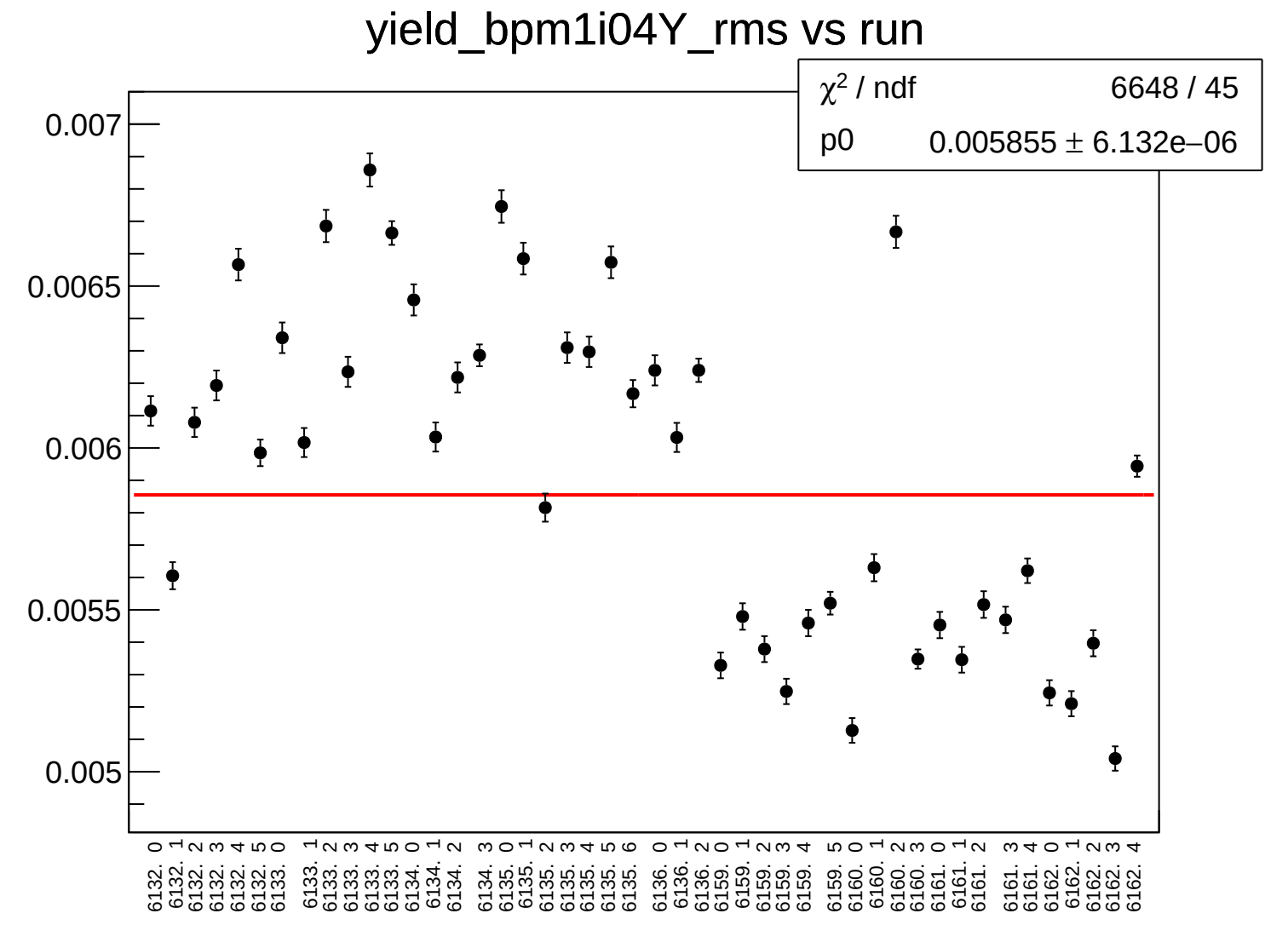
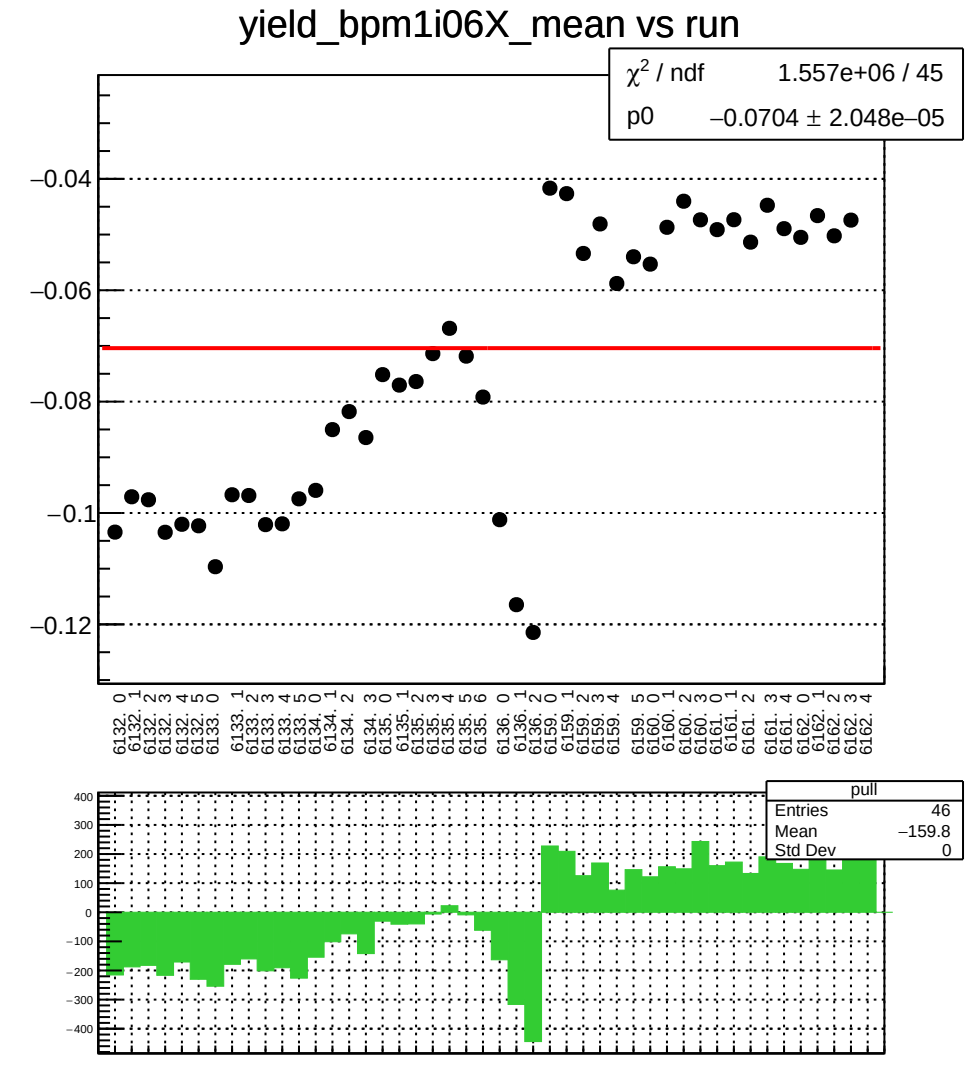
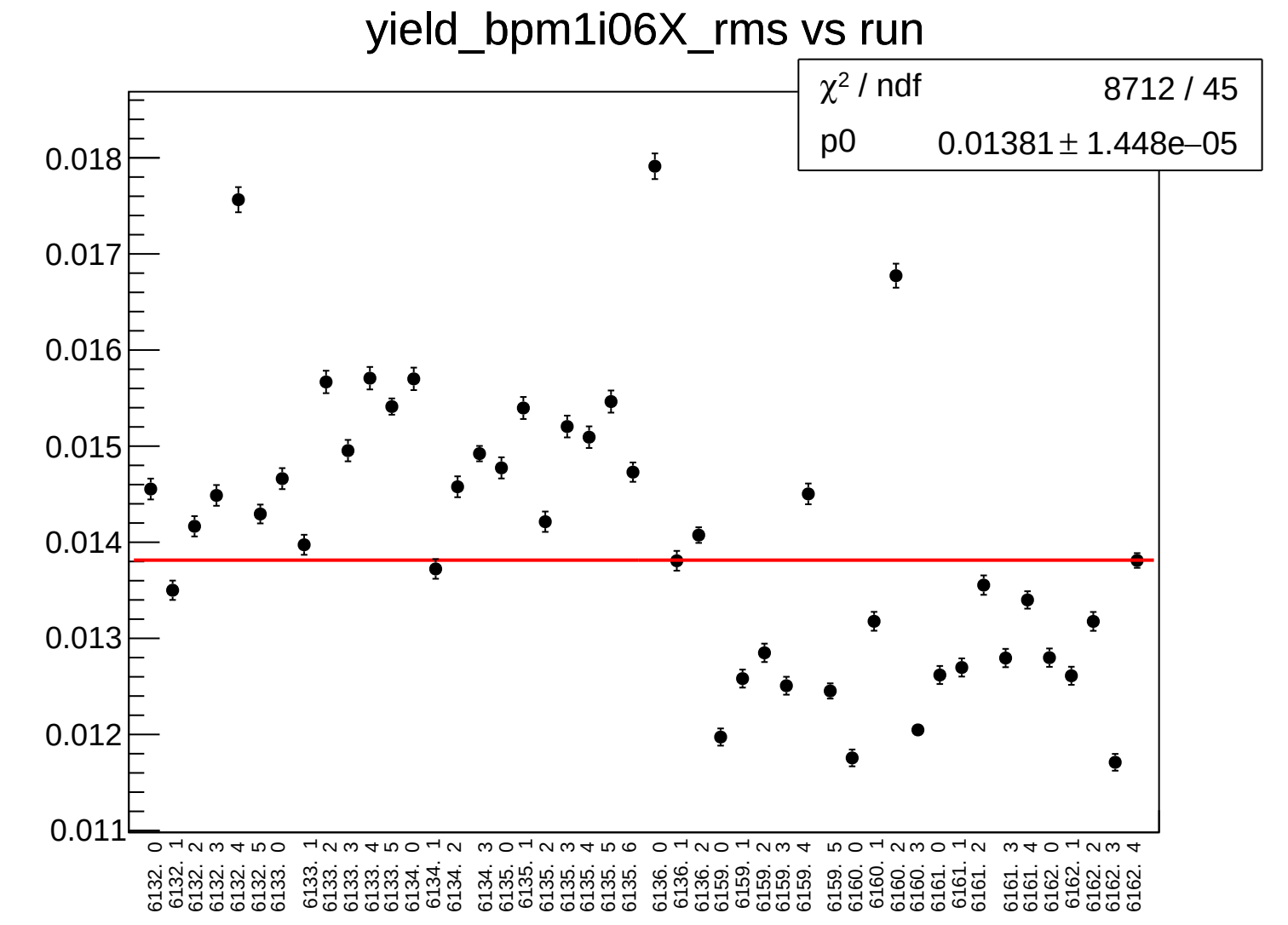
6162. 4

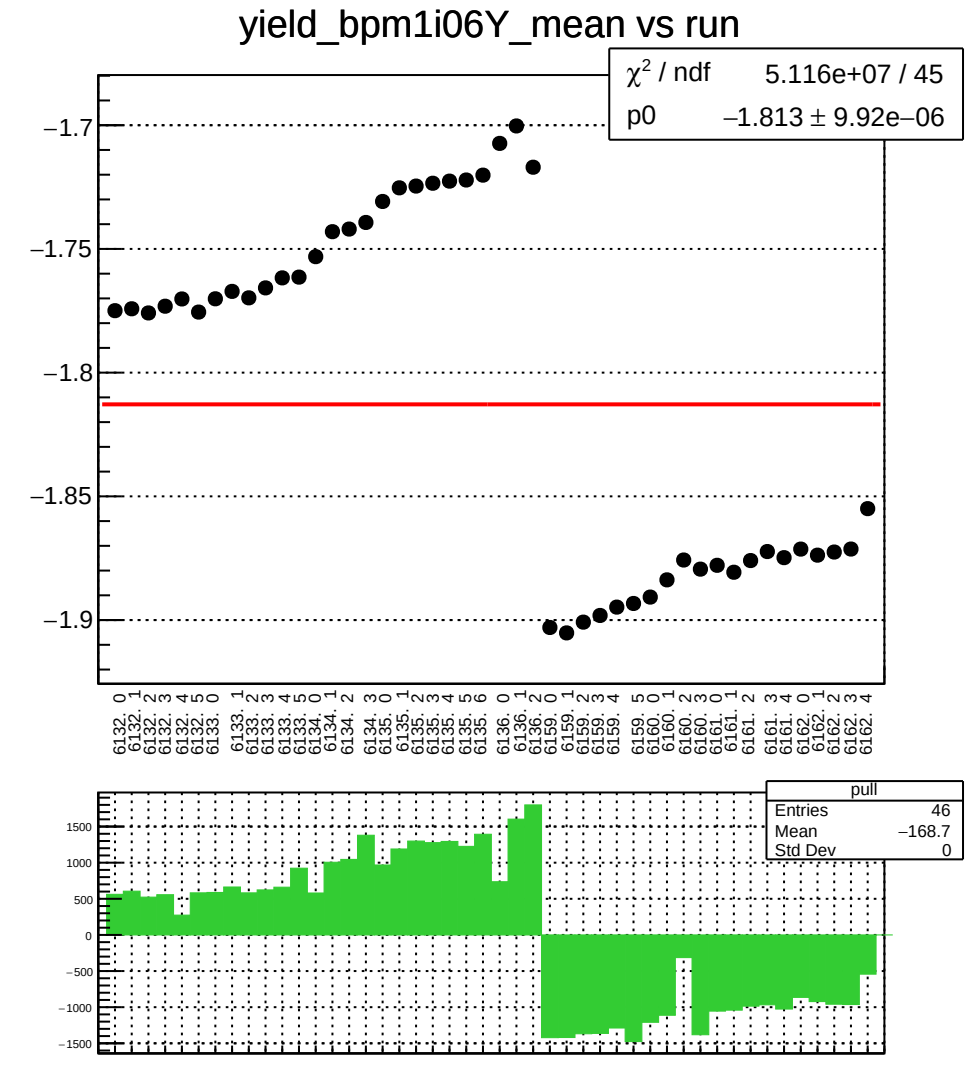

yield_bpm1i04Y_mean vs run
χ² / ndf 1.685e+07 / 45
p0 3.908 ± 8.672e−06
3.96
3.94
3.92
3.9
3.88
3.86
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −124.5
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

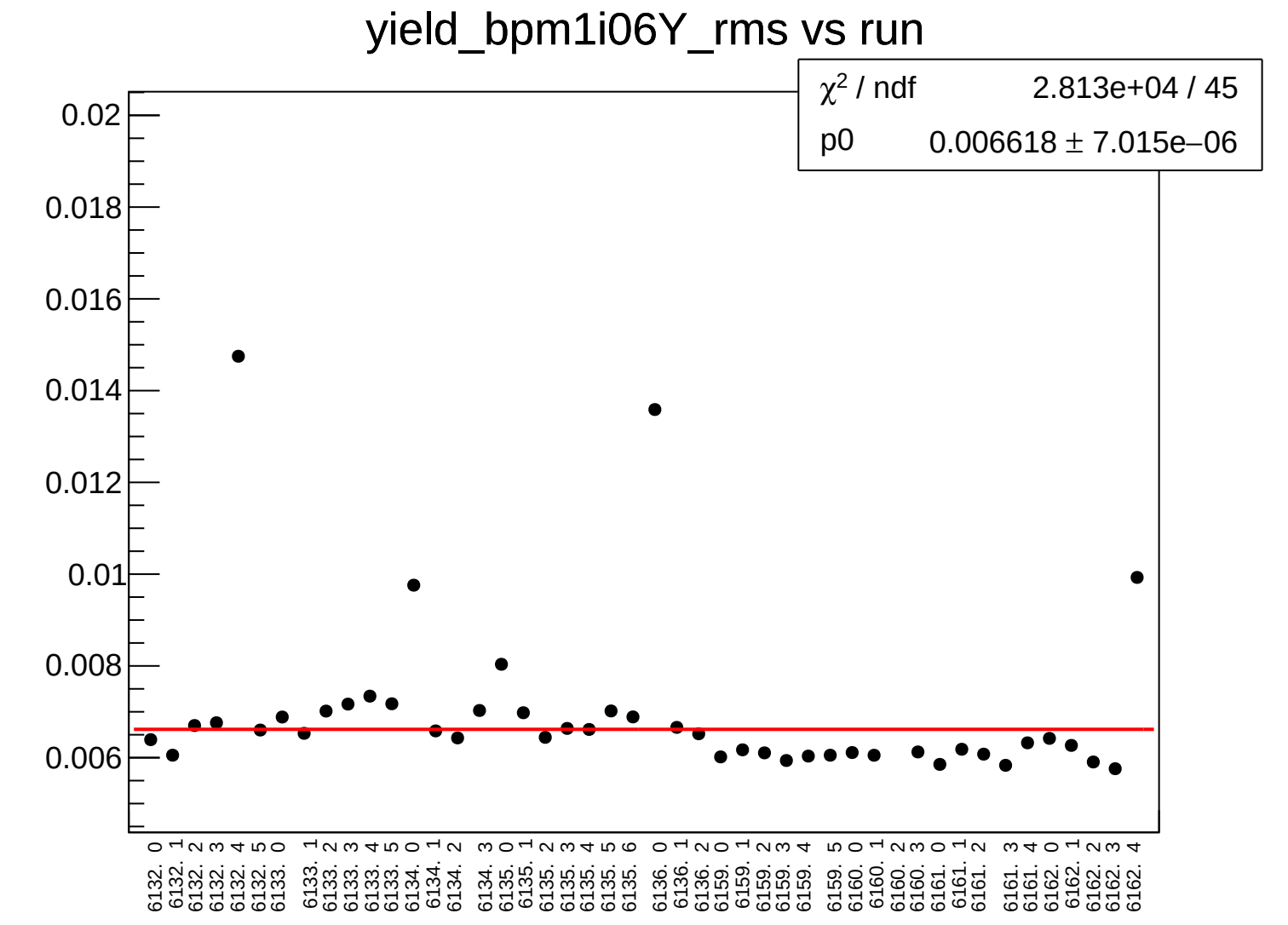

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

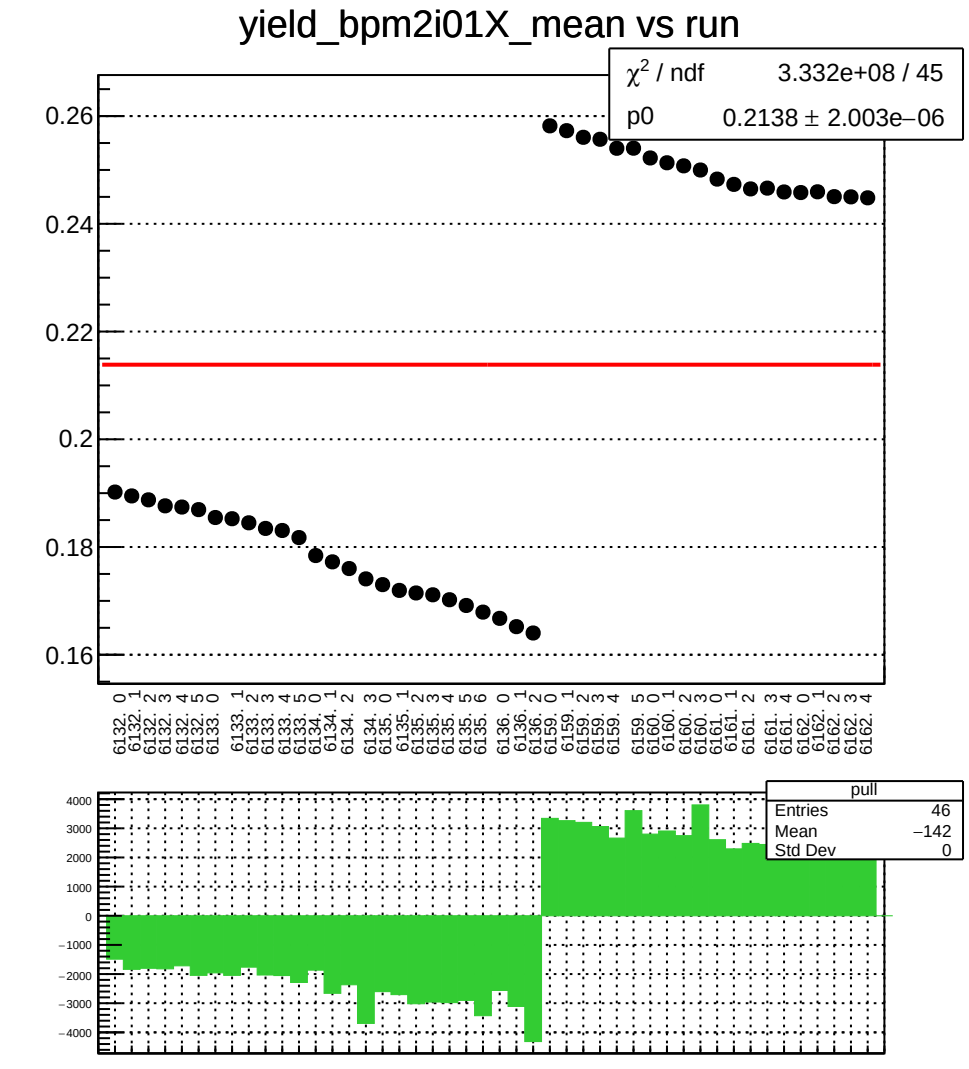

yield_bpm1i04Y_rms vs run
χ² / ndf 6648 / 45
p0 0.005855 ± 6.132e−06
0.007
0.0065
0.006
0.0055
0.005
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

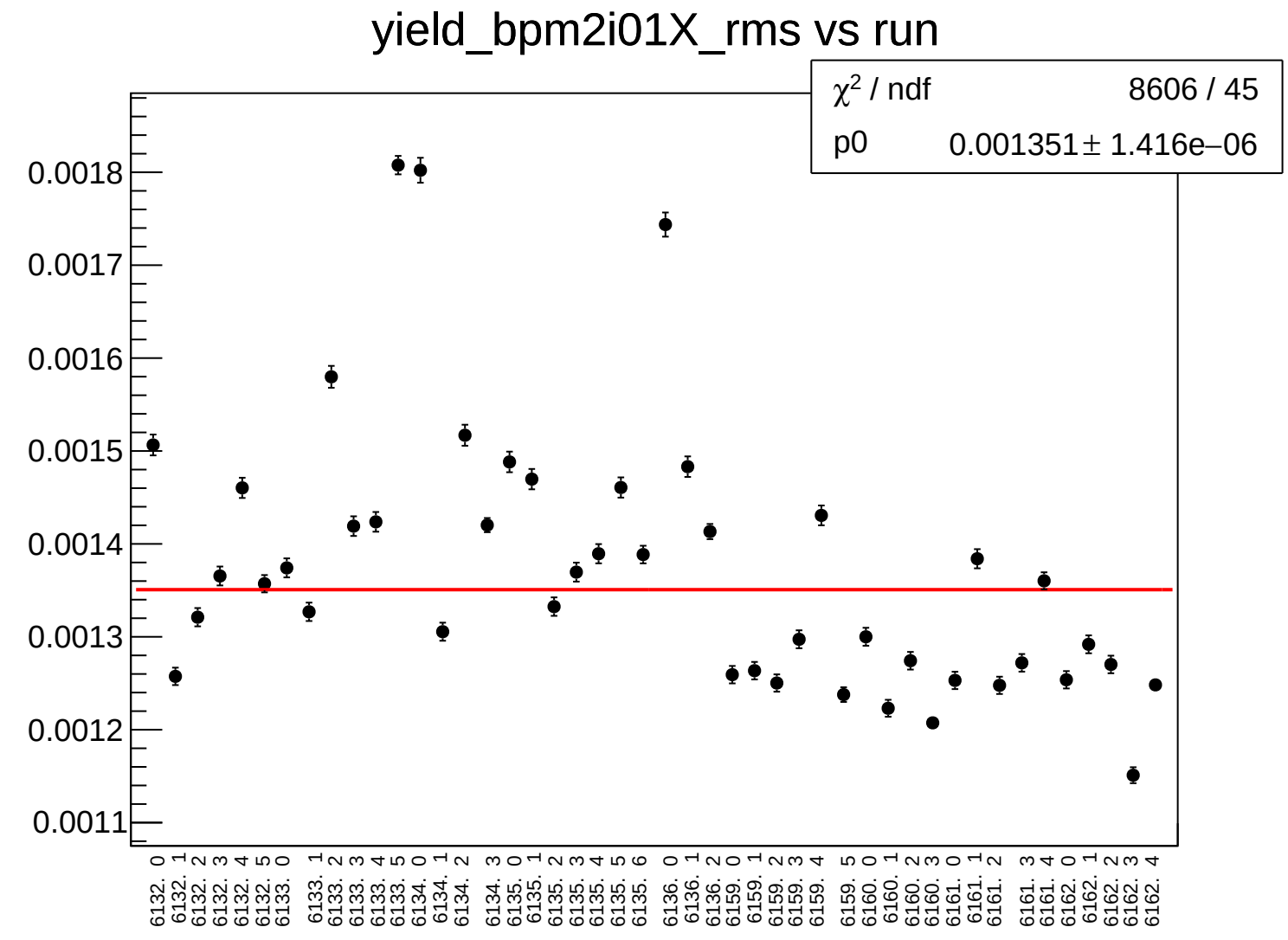

yield_bpm1i06X_mean vs run
χ² / ndf 1.557e+06 / 45
p0 −0.0704 ± 2.048e−05
−0.04
−0.06
−0.08
−0.1
−0.12
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −159.8
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 46
Mean −6.133
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

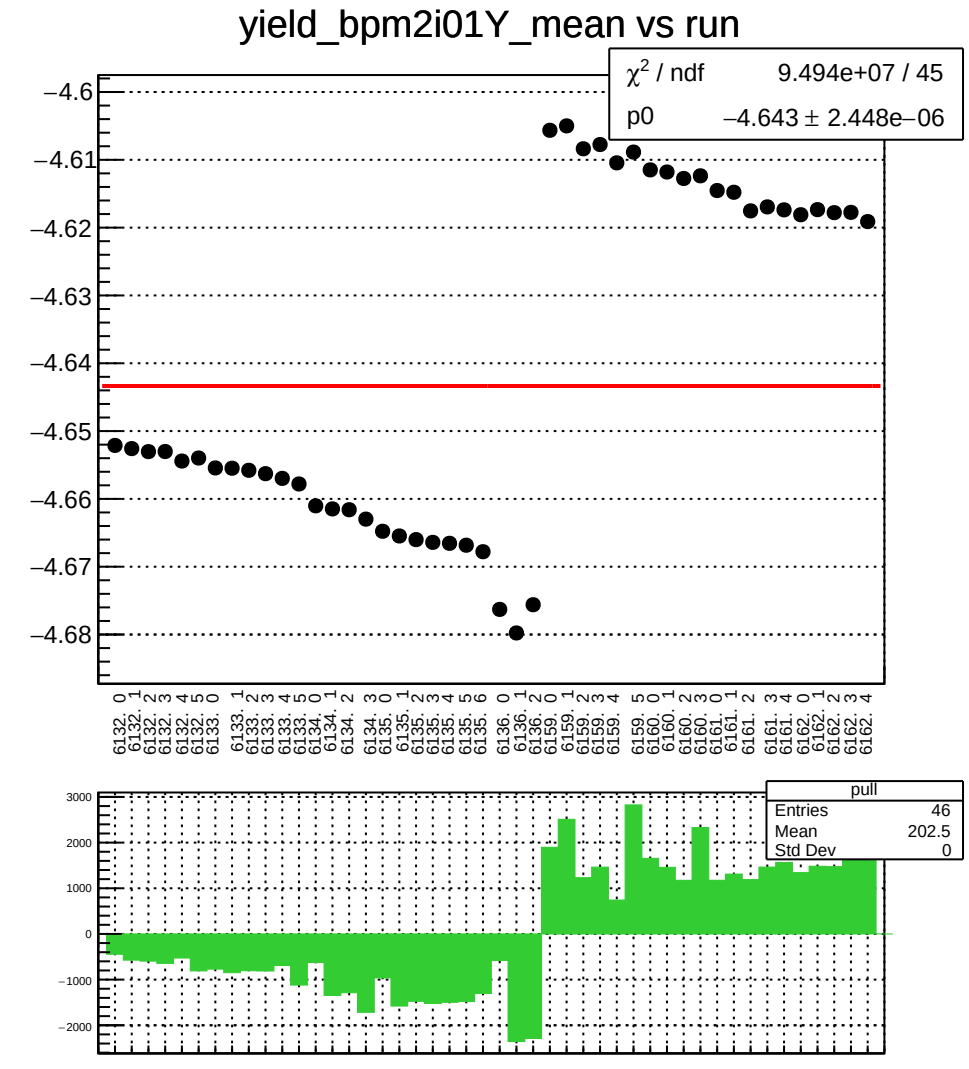

yield_bpm1i06X_rms vs run
χ² / ndf 8712 / 45
p0 0.01381 ± 1.448e−05
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

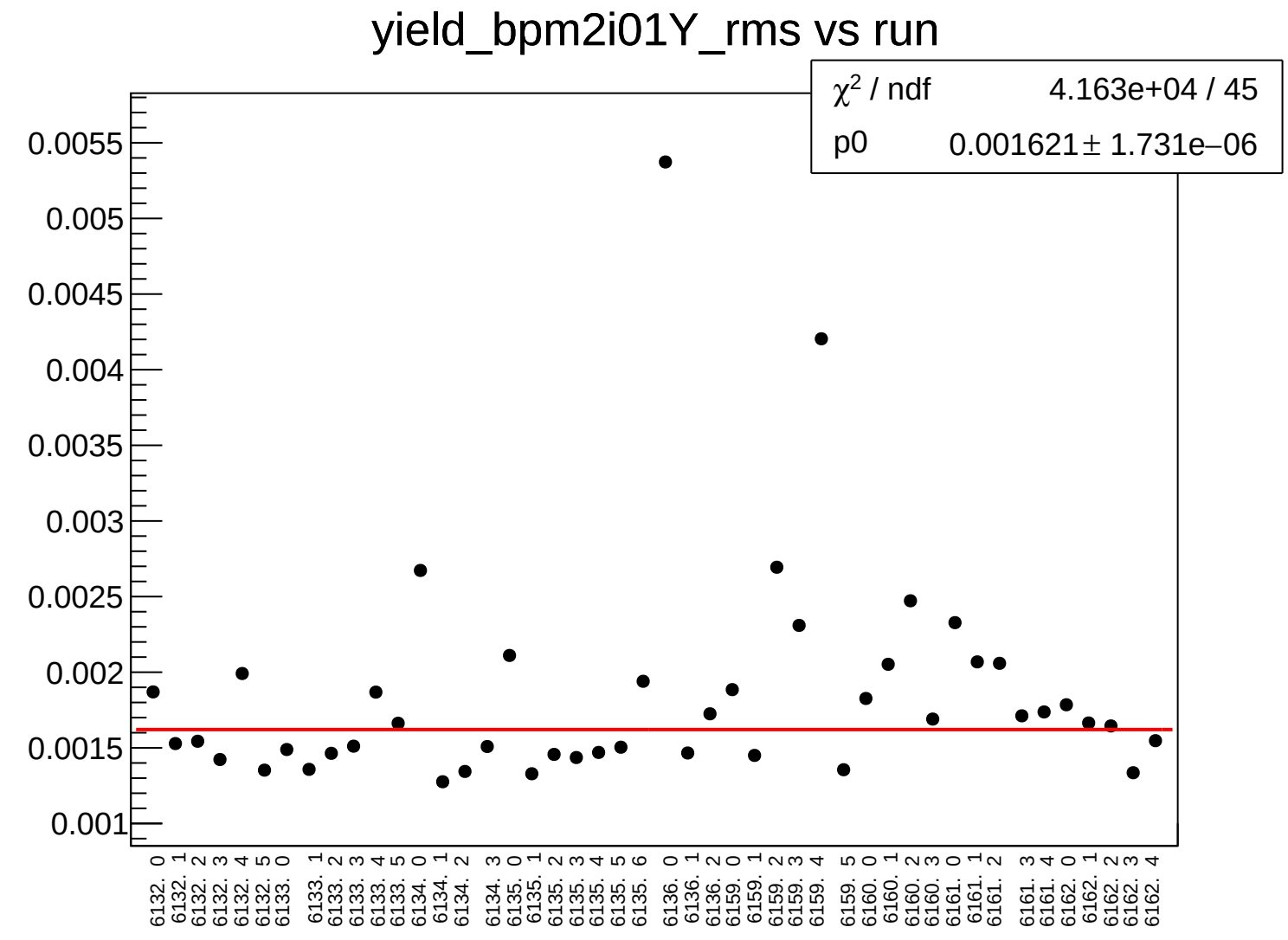

yield_bpm1i06Y_mean vs run
χ² / ndf 5.116e+07 / 45
p0 –1.813 ± 9.92e–06
–1.7
–1.75
–1.8
–1.85
–1.9
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean –168.7
Std Dev 0
1500
1000
500
0
–500
–1000
–1500
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

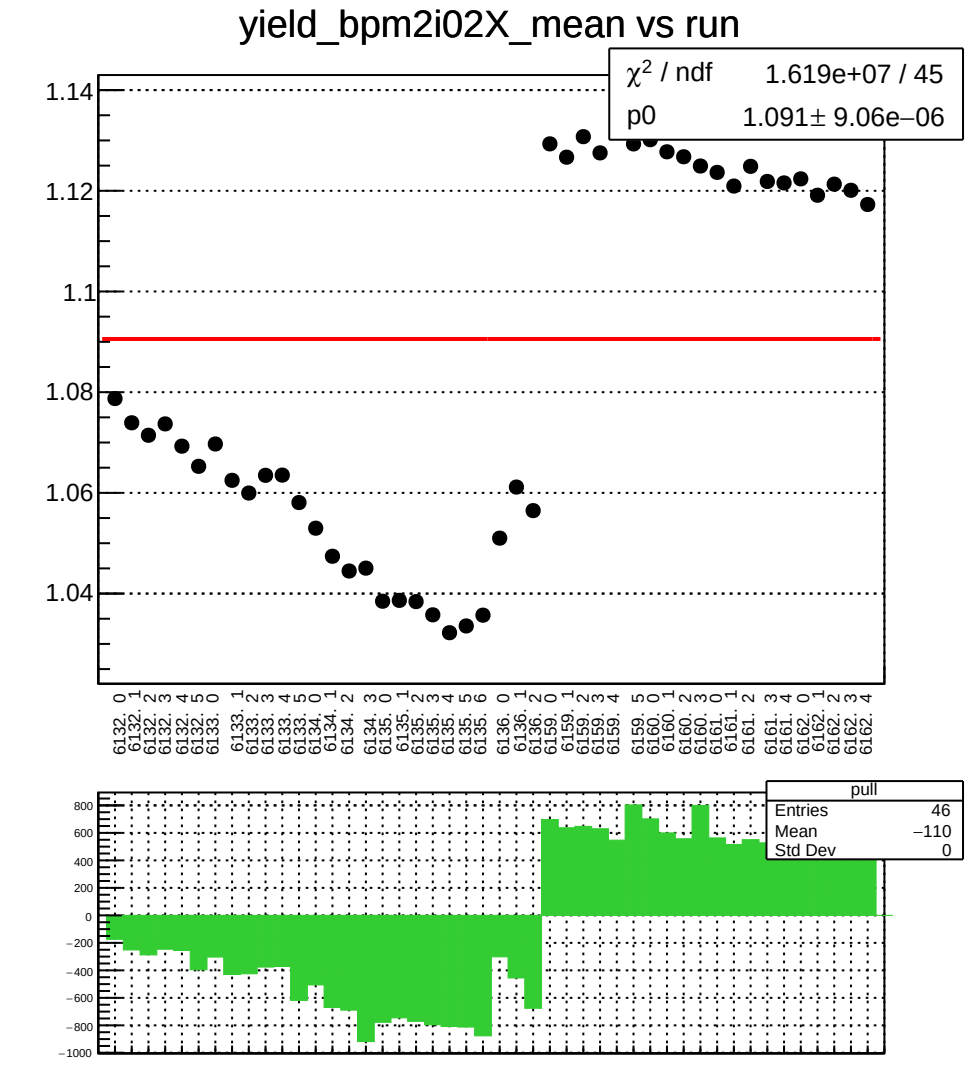

yield_bpm1i06Y_rms vs run
χ² / ndf 2.813e+04 / 45
p0 0.006618 ± 7.015e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

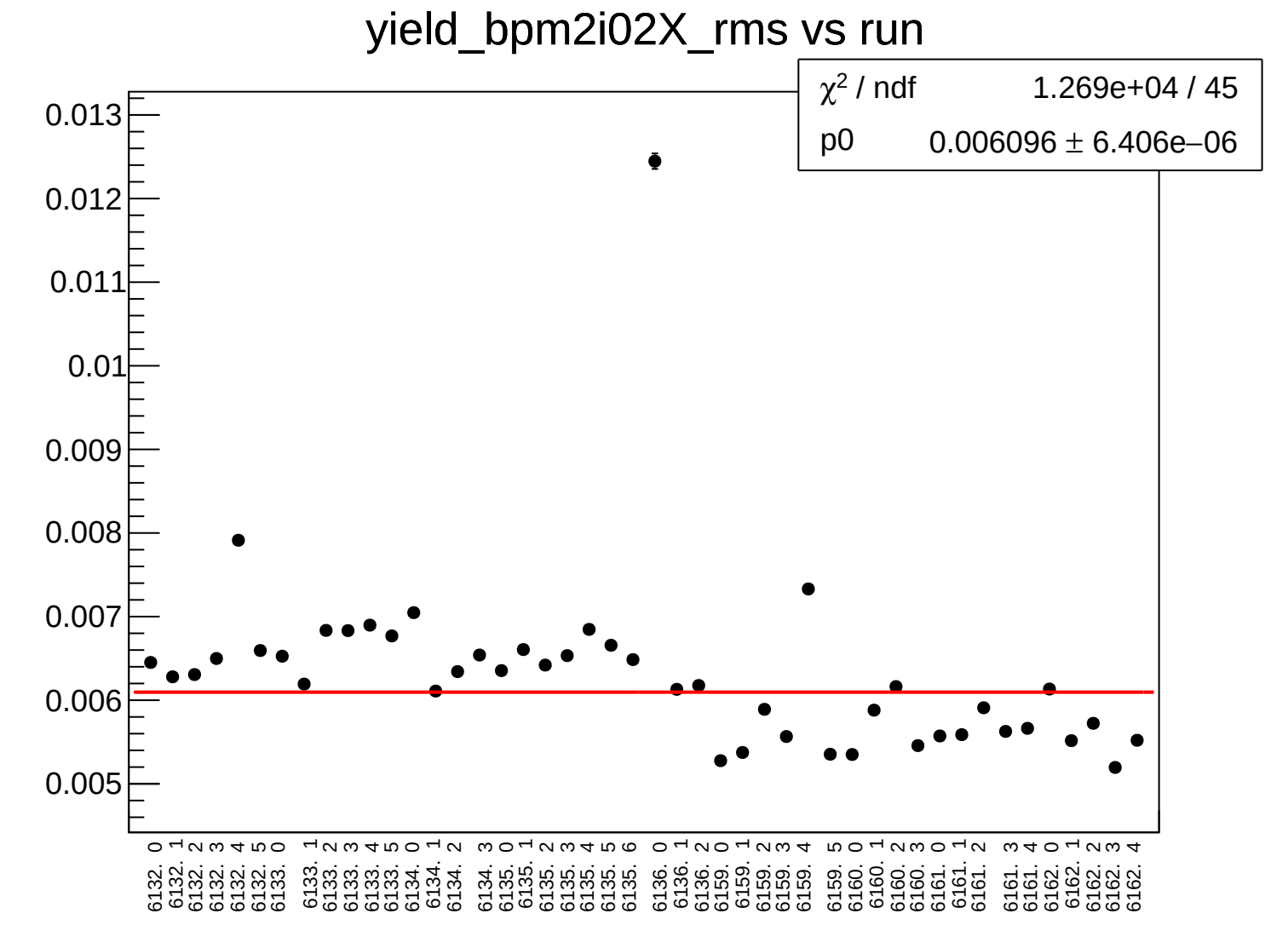

yield_bpm2i01X_mean vs run
χ² / ndf 3.332e+08 / 45
p0 0.2138 ± 2.003e−06
0.26
0.24
0.22
0.2
0.18
0.16
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −142
Std Dev 0
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

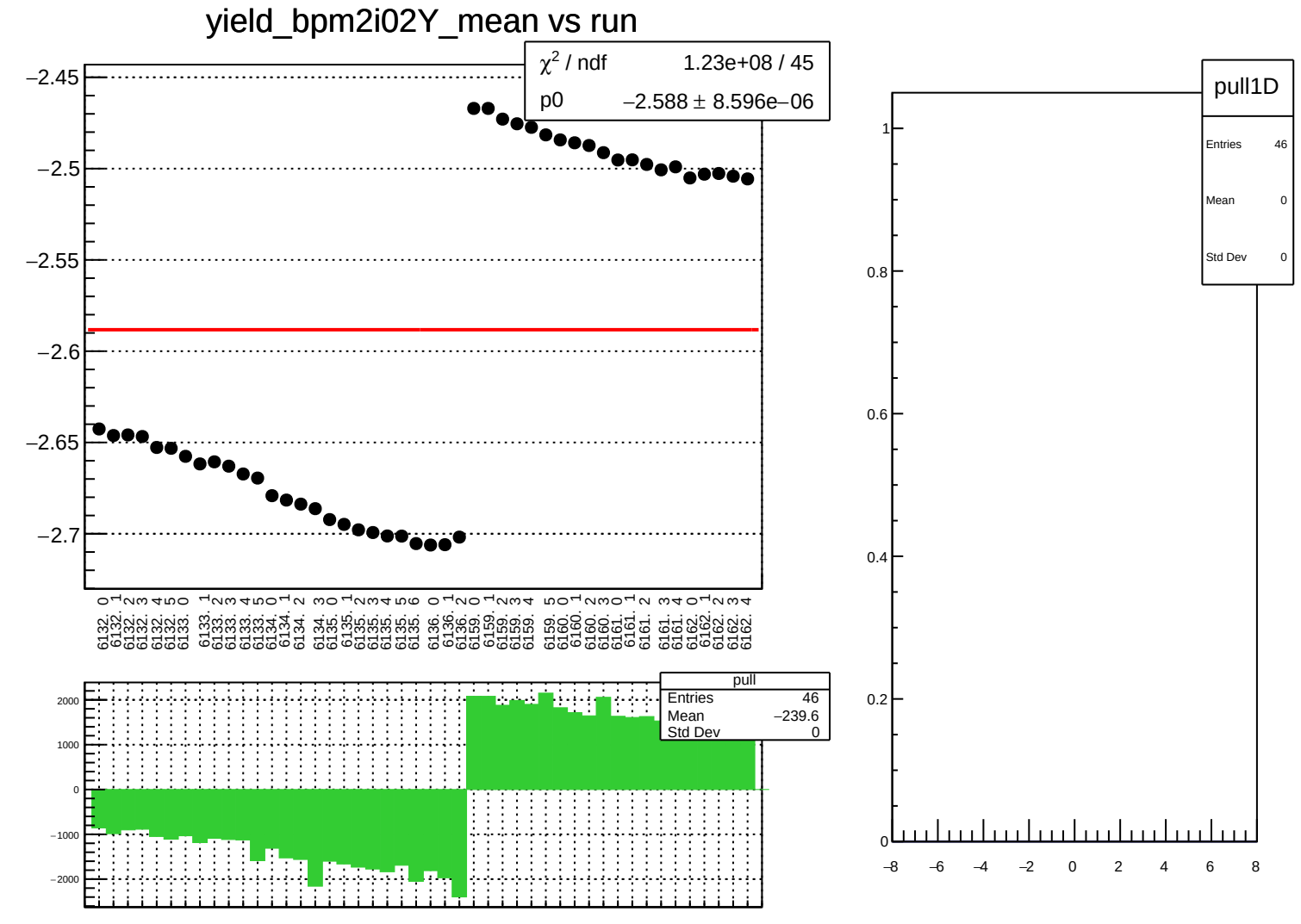

yield_bpm2i01X_rms vs run
χ² / ndf 8606 / 45
p0 0.001351 ± 1.416e−06
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

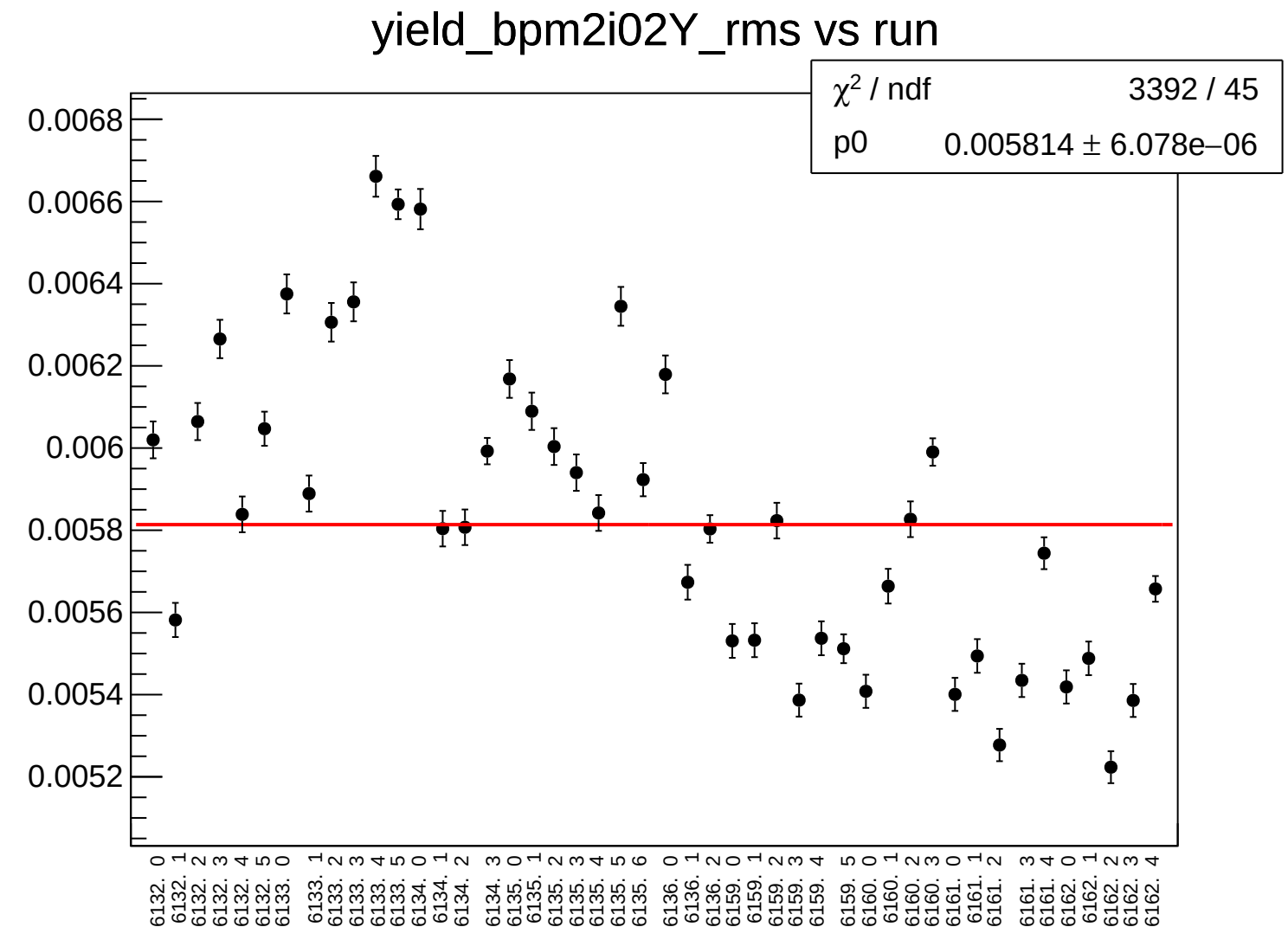

yield_bpm2i01Y_mean vs run
χ² / ndf 9.494e+07 / 45
p0 −4.643 ± 2.448e−06
−4.6
−4.61
−4.62
−4.63
−4.64
−4.65
−4.66
−4.67
−4.68
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 202.5
Std Dev 0
3000
2000
1000
0
−1000
−2000
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

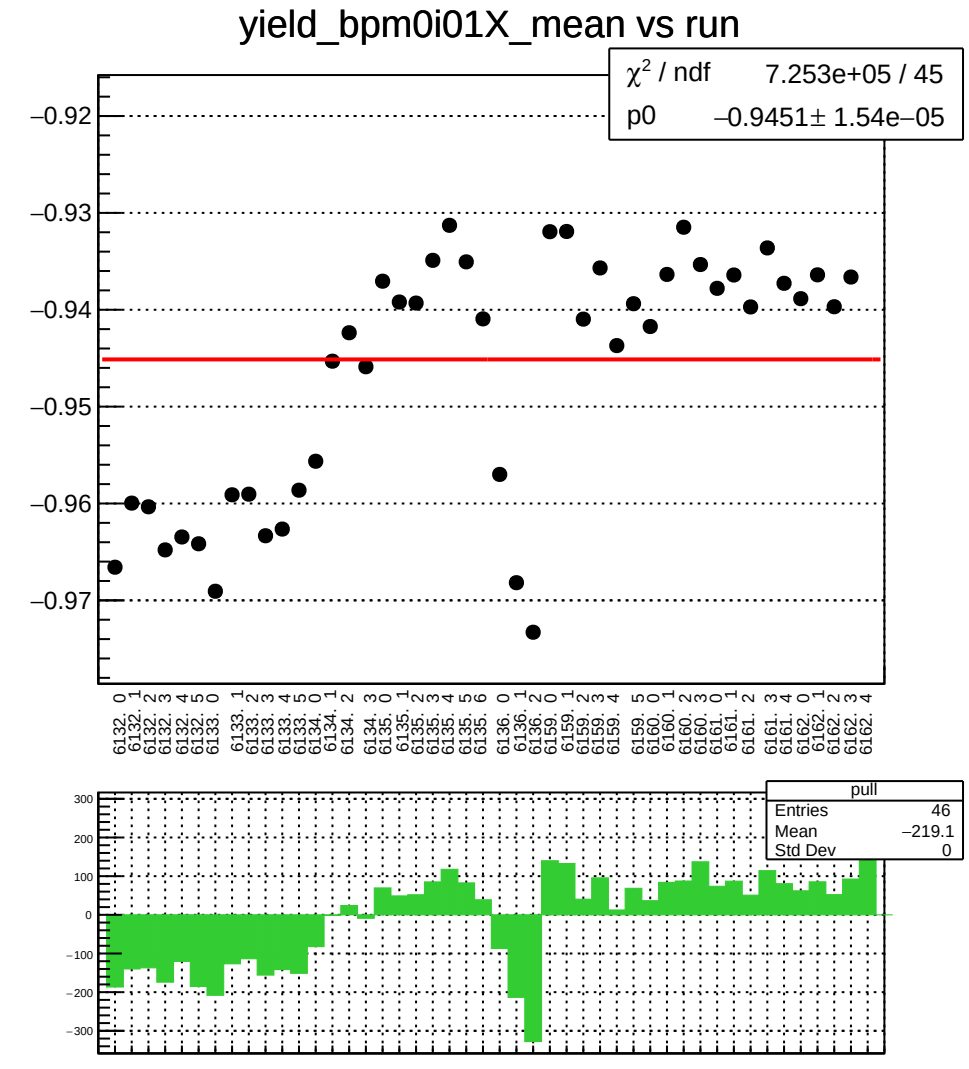

yield_bpm2i01Y_rms vs run
χ² / ndf 4.163e+04 / 45
p0 0.001621 ± 1.731e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

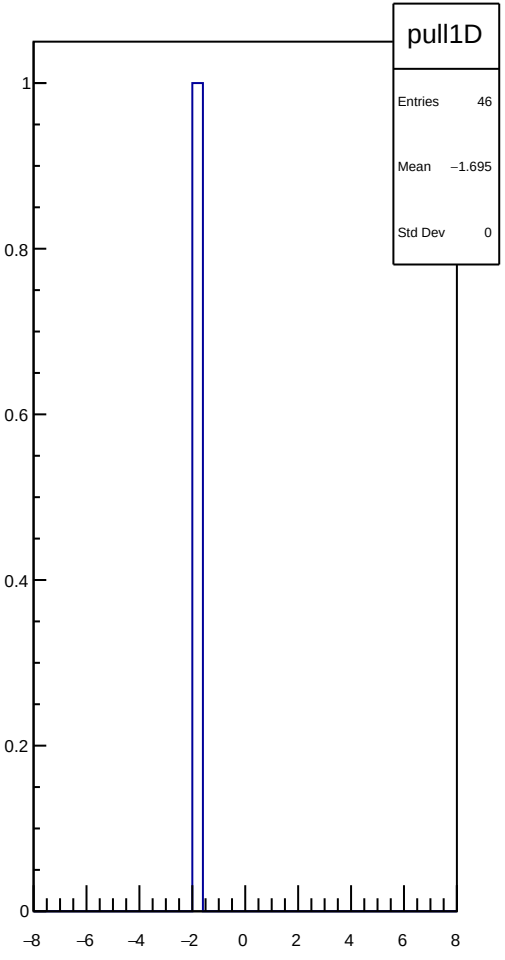

yield_bpm2i02X_mean vs run
χ² / ndf 1.619e+07 / 45
p0 1.091± 9.06e−06
1.14
1.12
1.1
1.08
1.06
1.04
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −110
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

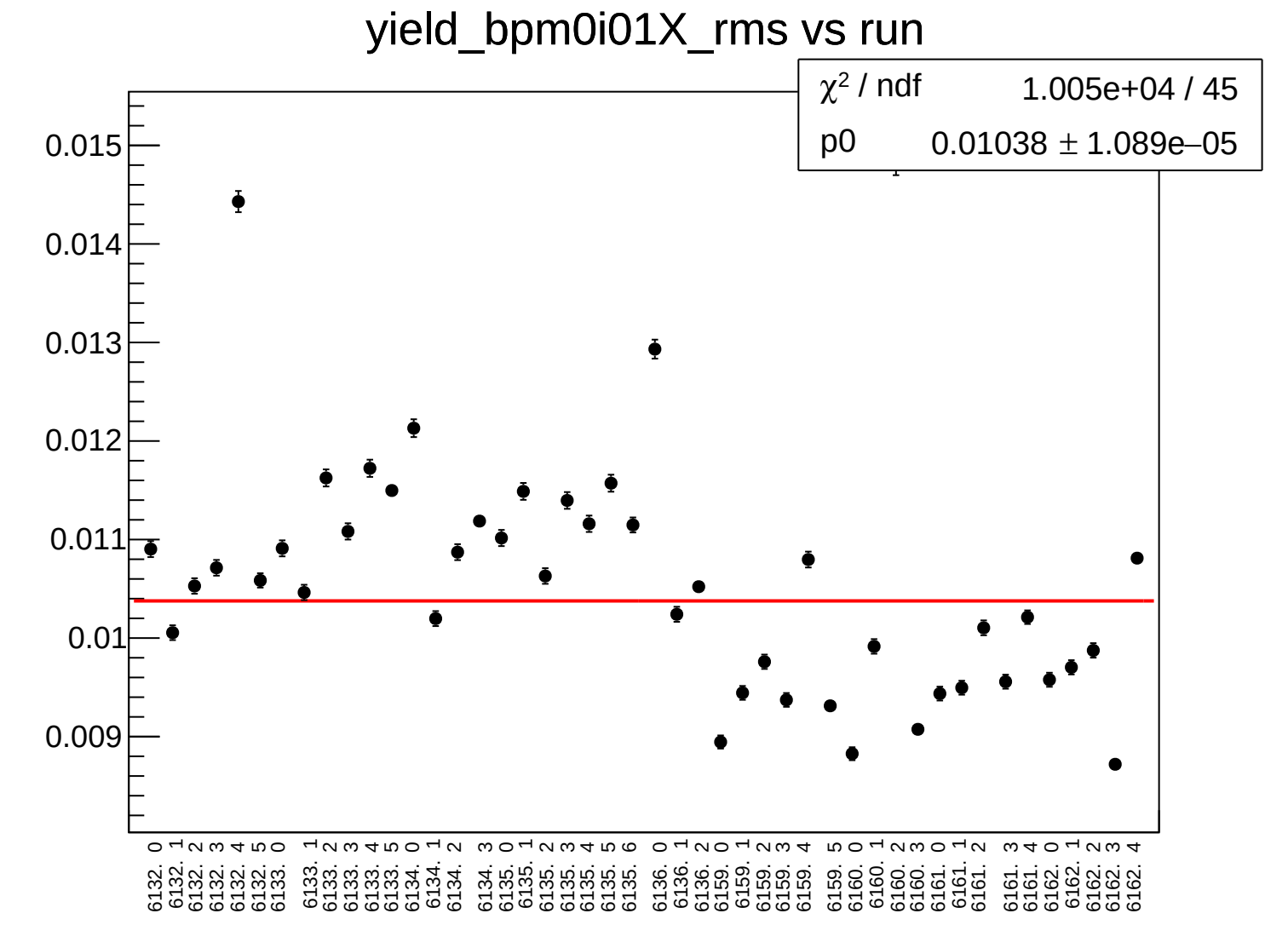

yield_bpm2i02X_rms vs run
χ² / ndf 1.269e+04 / 45
p0 0.006096 ± 6.406e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_bpm2i02Y_mean vs run
χ² / ndf 1.23e+08 / 45
p0 −2.588 ± 8.596e−06
−2.45
−2.5
−2.55
−2.6
−2.65
−2.7
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −239.6
Std Dev 0
2000
1000
0
−1000
−2000
pull1D
Entries 46
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_bpm2i02Y_rms vs run
χ² / ndf 3392 / 45
p0 0.005814 ± 6.078e−06
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_bpm0i01X_mean vs run
χ² / ndf 7.253e+05 / 45
p0 −0.9451± 1.54e−05
−0.92
−0.93
−0.94
−0.95
−0.96
−0.97
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −219.1
Std Dev 0
300
200
100
0
−100
−200
−300


pull1D
Entries 46
Mean −1.695
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i01X_rms vs run
χ² / ndf 1.005e+04 / 45
p0 0.01038 ± 1.089e−05
0.015
0.014
0.013
0.012
0.011
0.01
0.009
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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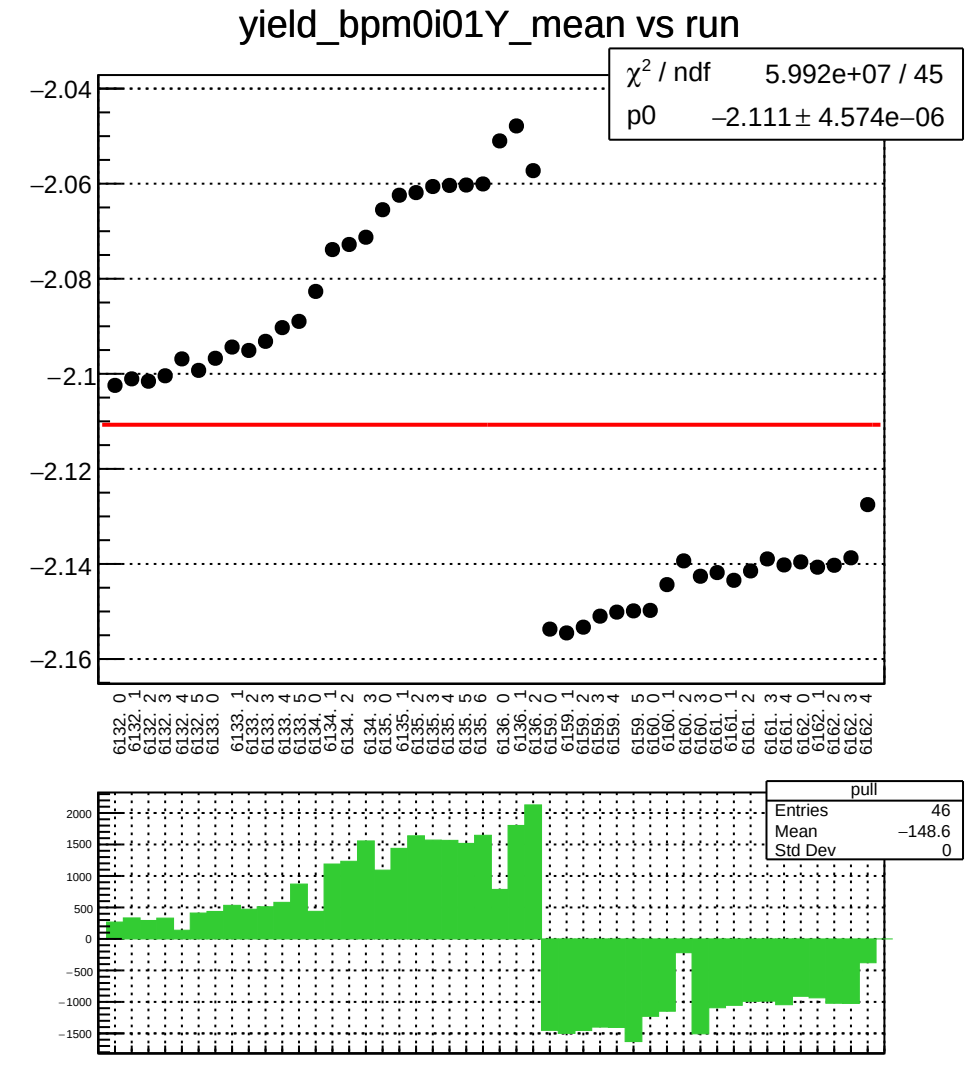
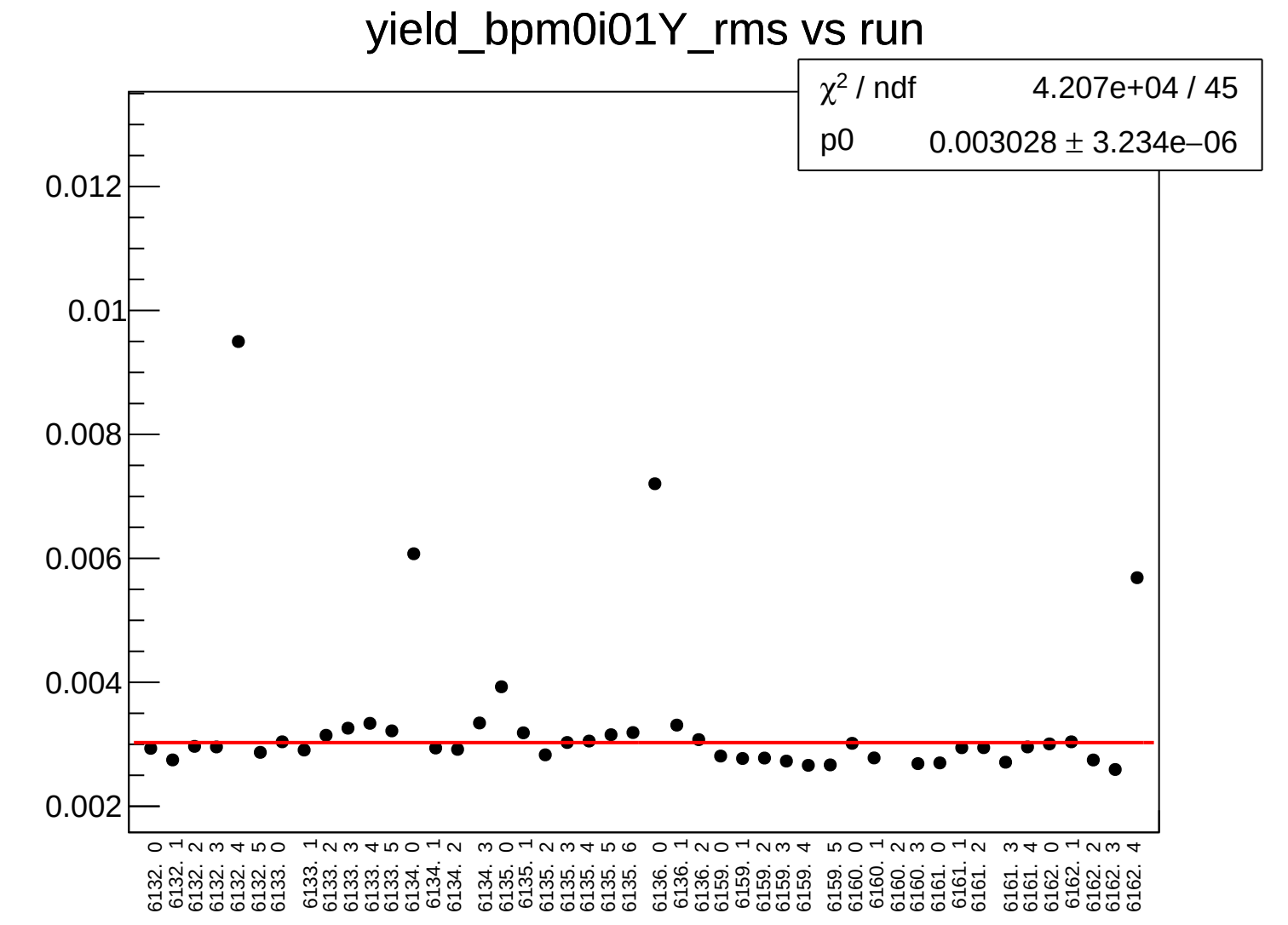
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_bpm0i01Y_mean vs run
χ² / ndf 5.992e+07 / 45
p0 −2.111 ± 4.574e−06
−2.04
−2.06
−2.08
−2.1
−2.12
−2.14
−2.16
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −148.6
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500
pull1D
Entries 46
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_bpm0i01Y_rms vs run
χ² / ndf 4.207e+04 / 45
p0 0.003028 ± 3.234e−06
0.012
0.01
0.008
0.006
0.004
0.002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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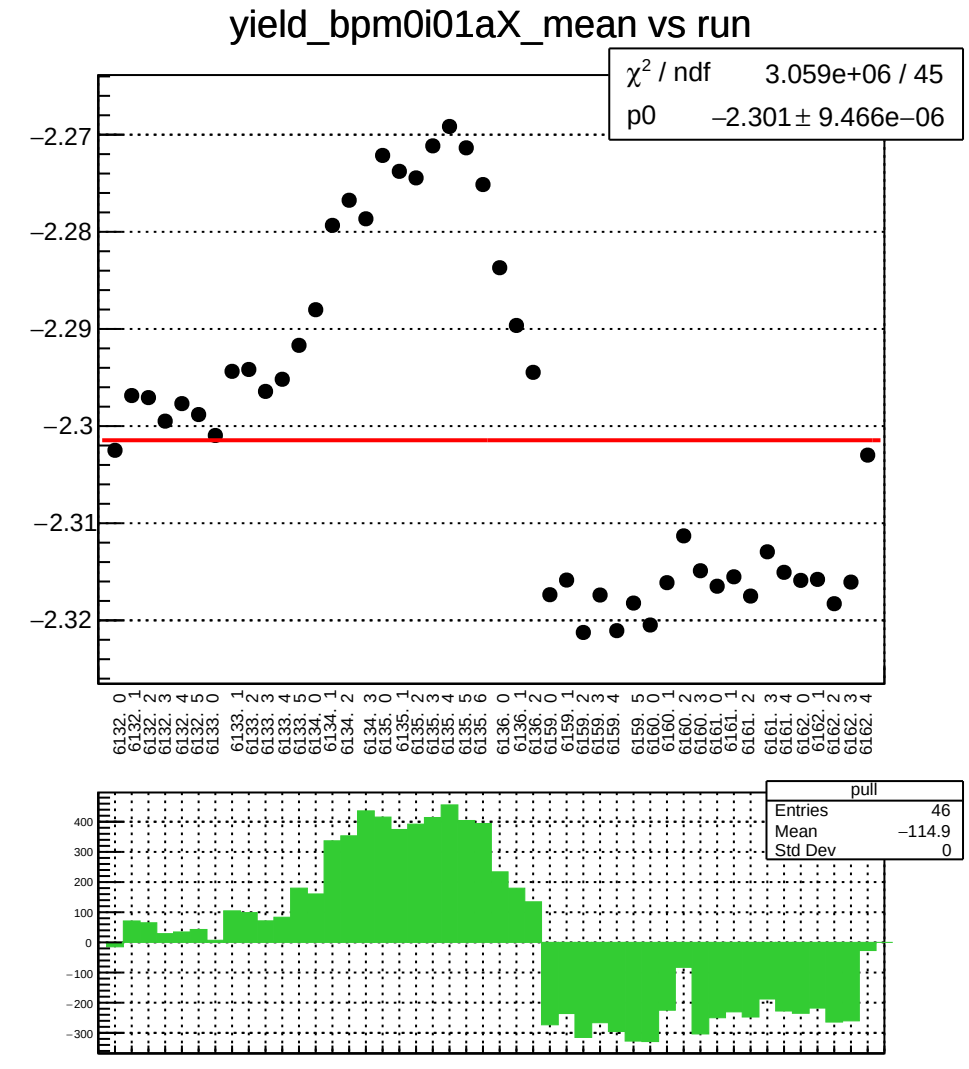
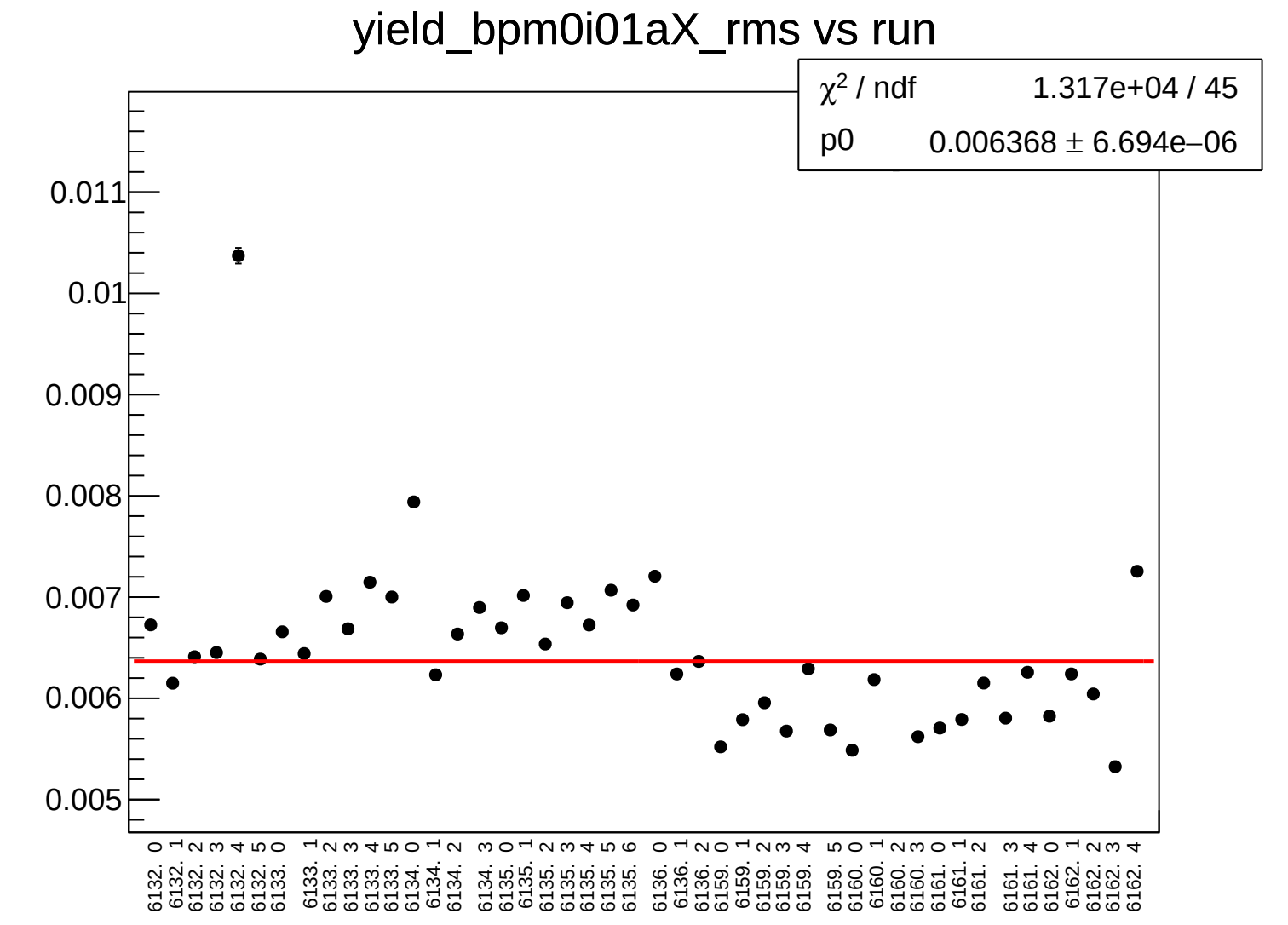
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_bpm0i01aX_mean vs run
χ² / ndf 3.059e+06 / 45
p0 −2.301 ± 9.466e−06
−2.27
−2.28
−2.29
−2.3
−2.31
−2.32
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −114.9
Std Dev 0
400
300
200
100
0
−100
−200
−300
pull1D
Entries 46
Mean 7.02
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i01aX_rms vs run
χ² / ndf 1.317e+04 / 45
p0 0.006368 ± 6.694e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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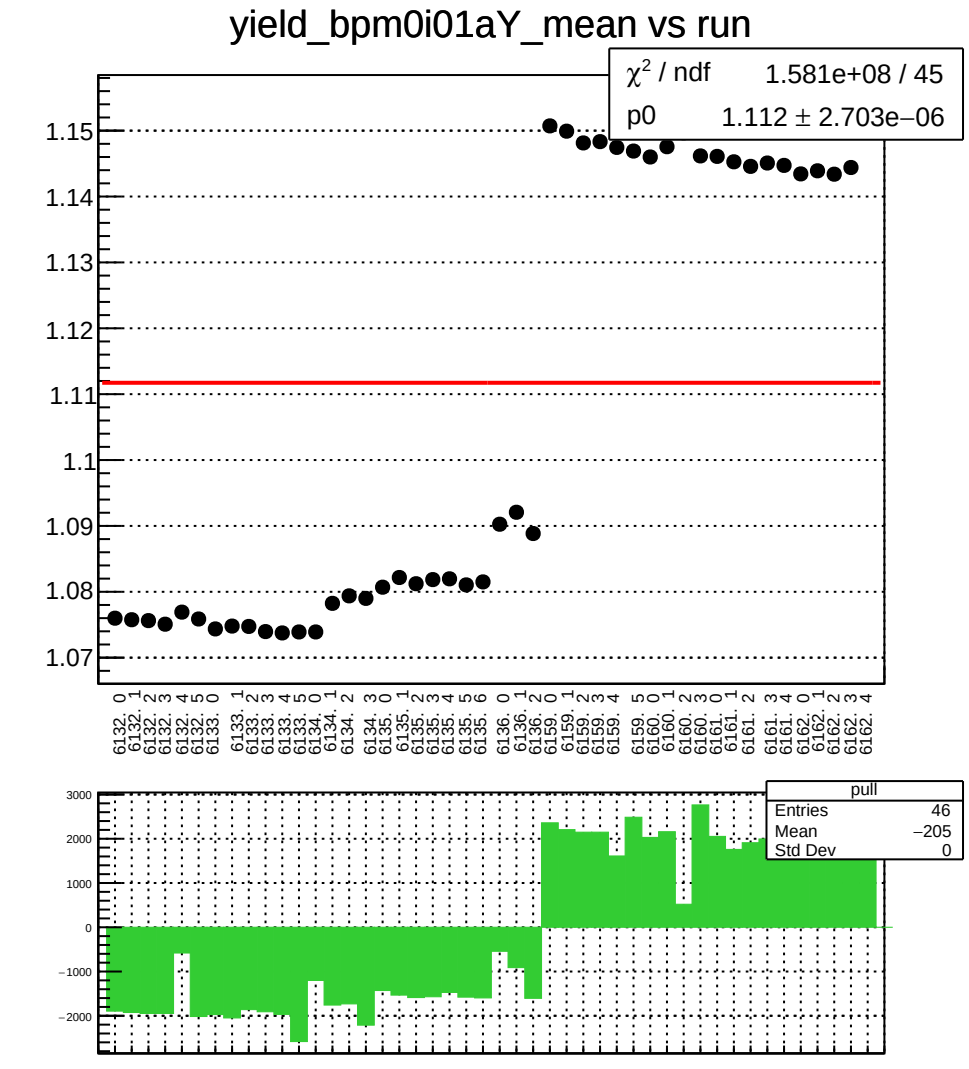
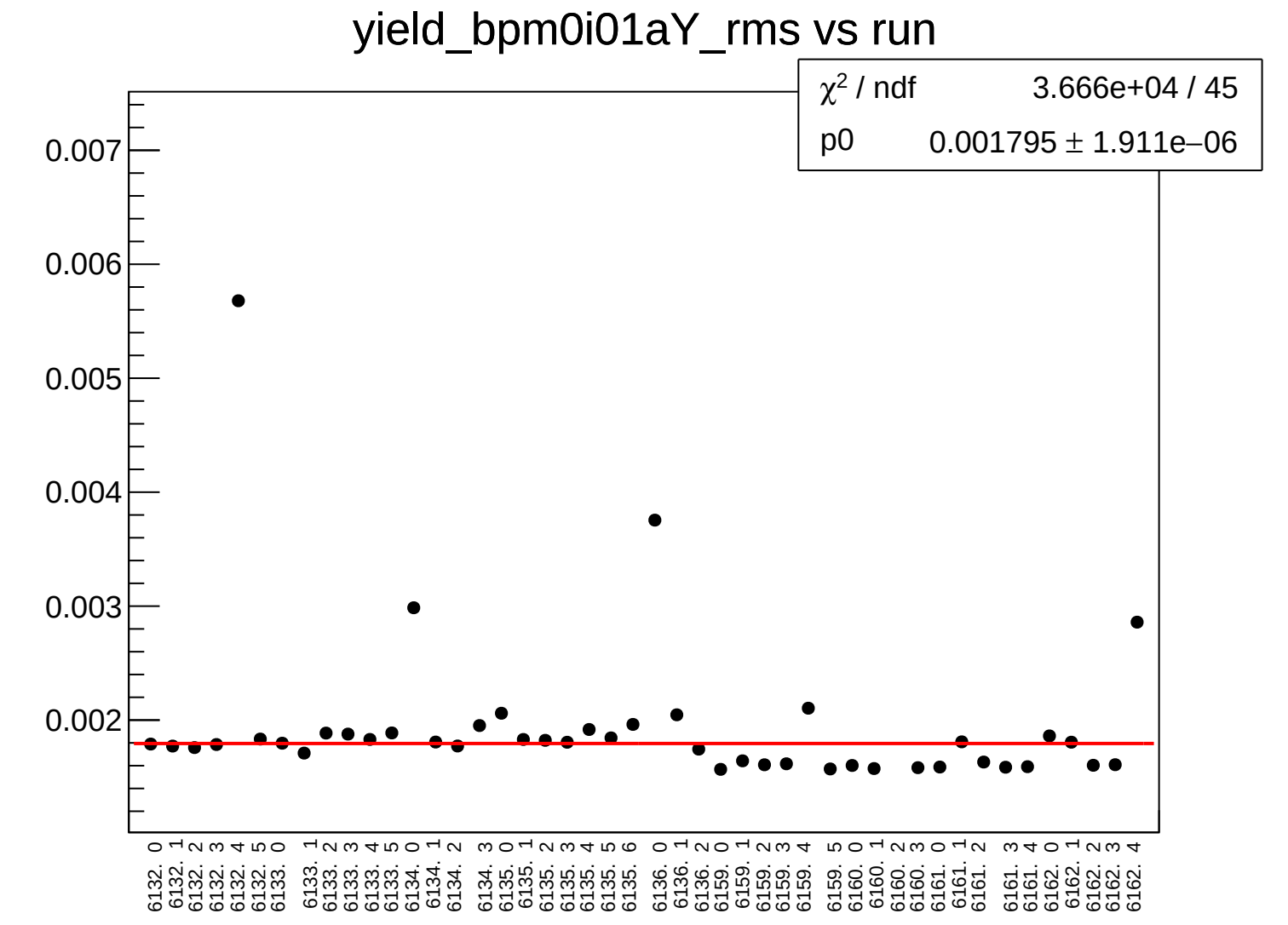
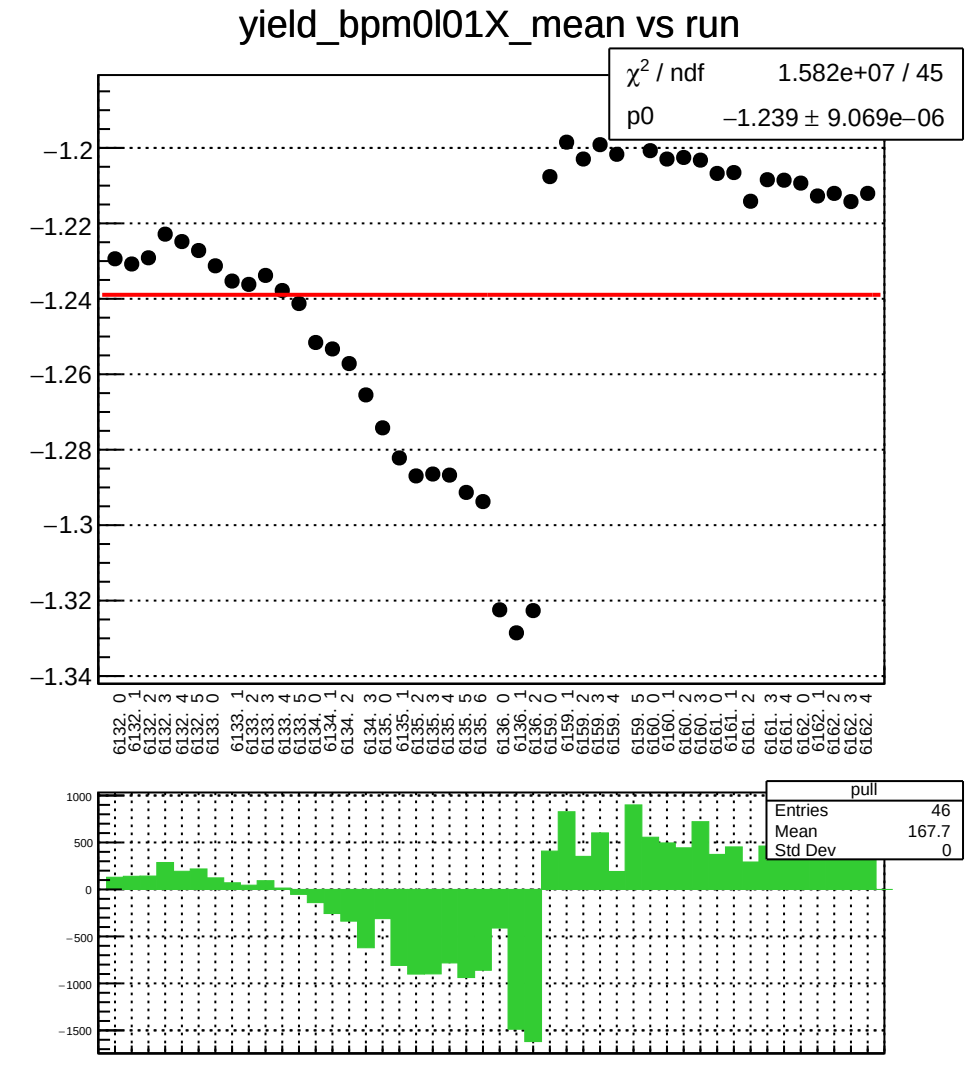
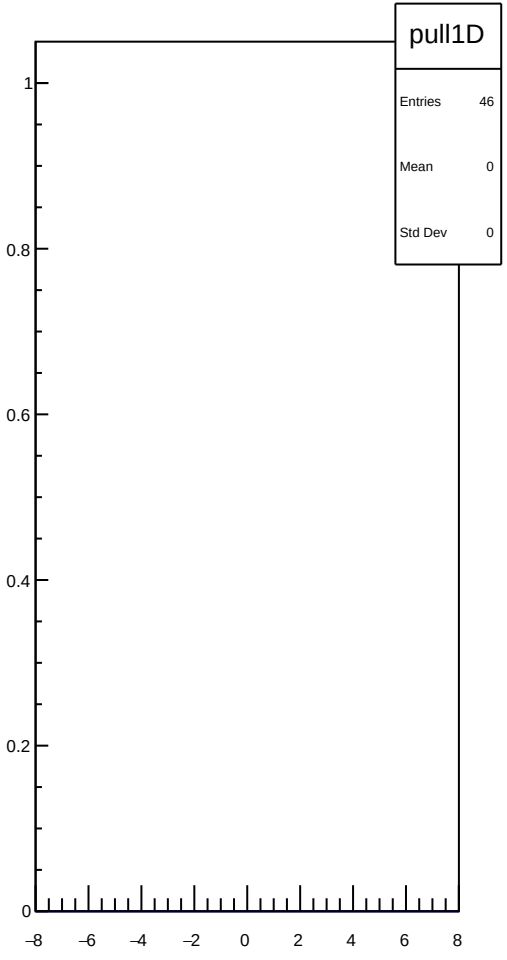
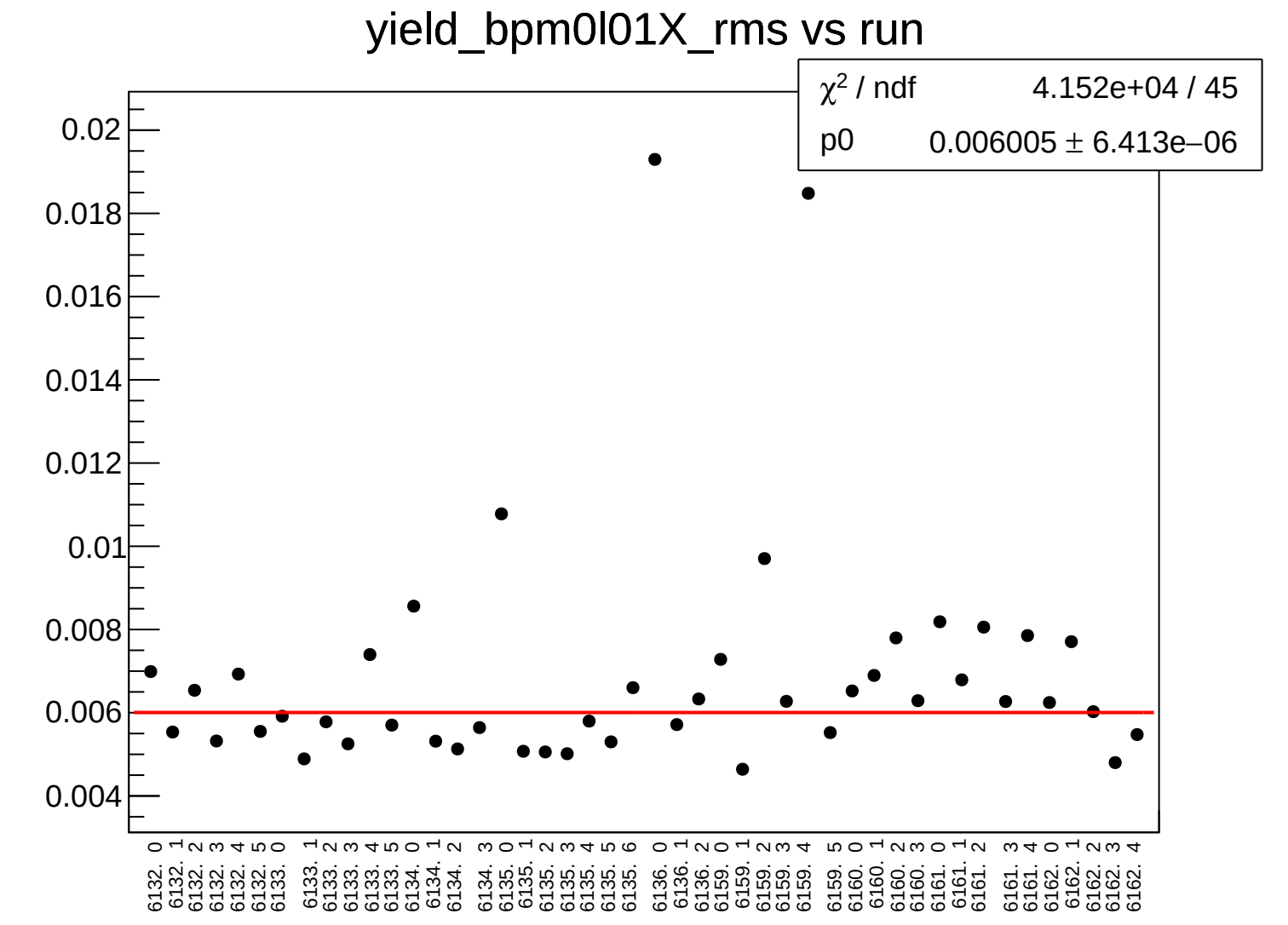
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

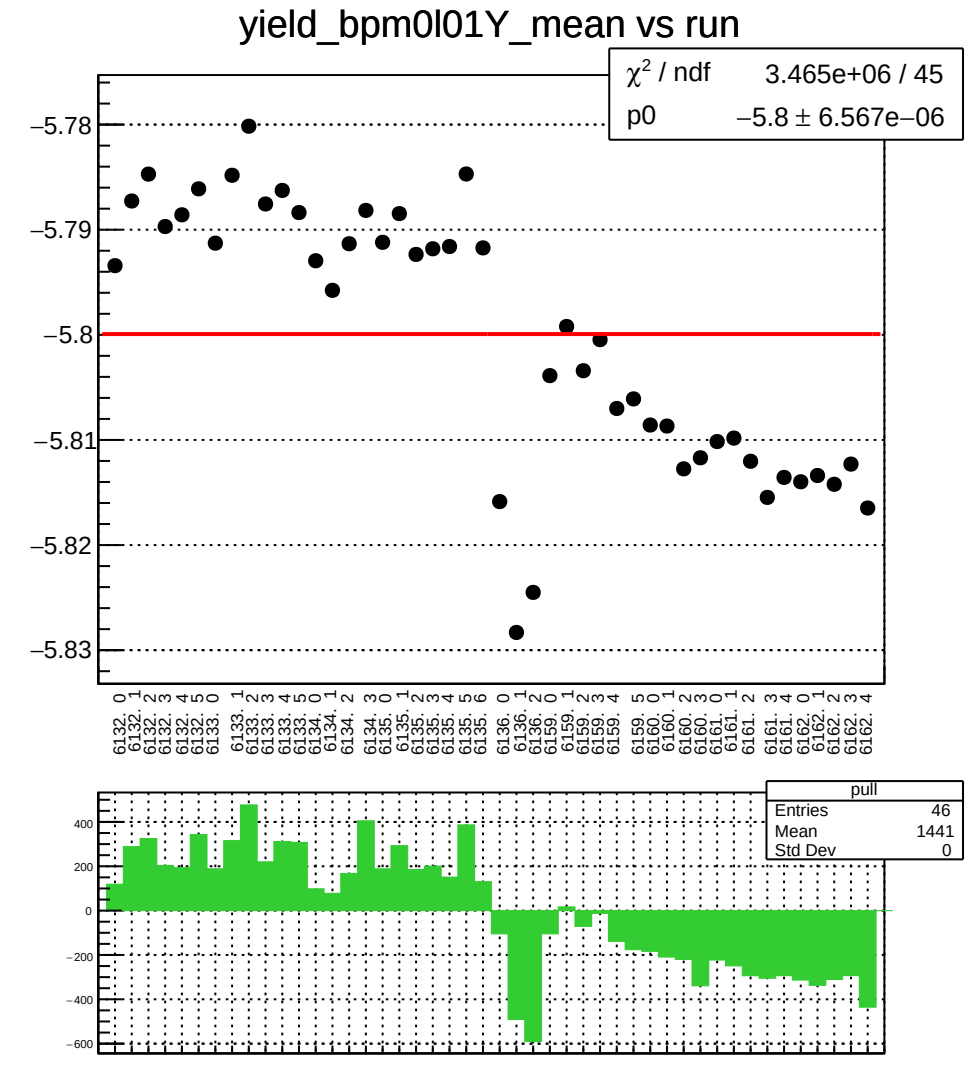

yield_bpm0i01aY_mean vs run
χ² / ndf 1.581e+08 / 45
p0 1.112 ± 2.703e−06
1.15
1.14
1.13
1.12
1.11
1.1
1.09
1.08
1.07
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −205
Std Dev 0
3000
2000
1000
0
−1000
−2000
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

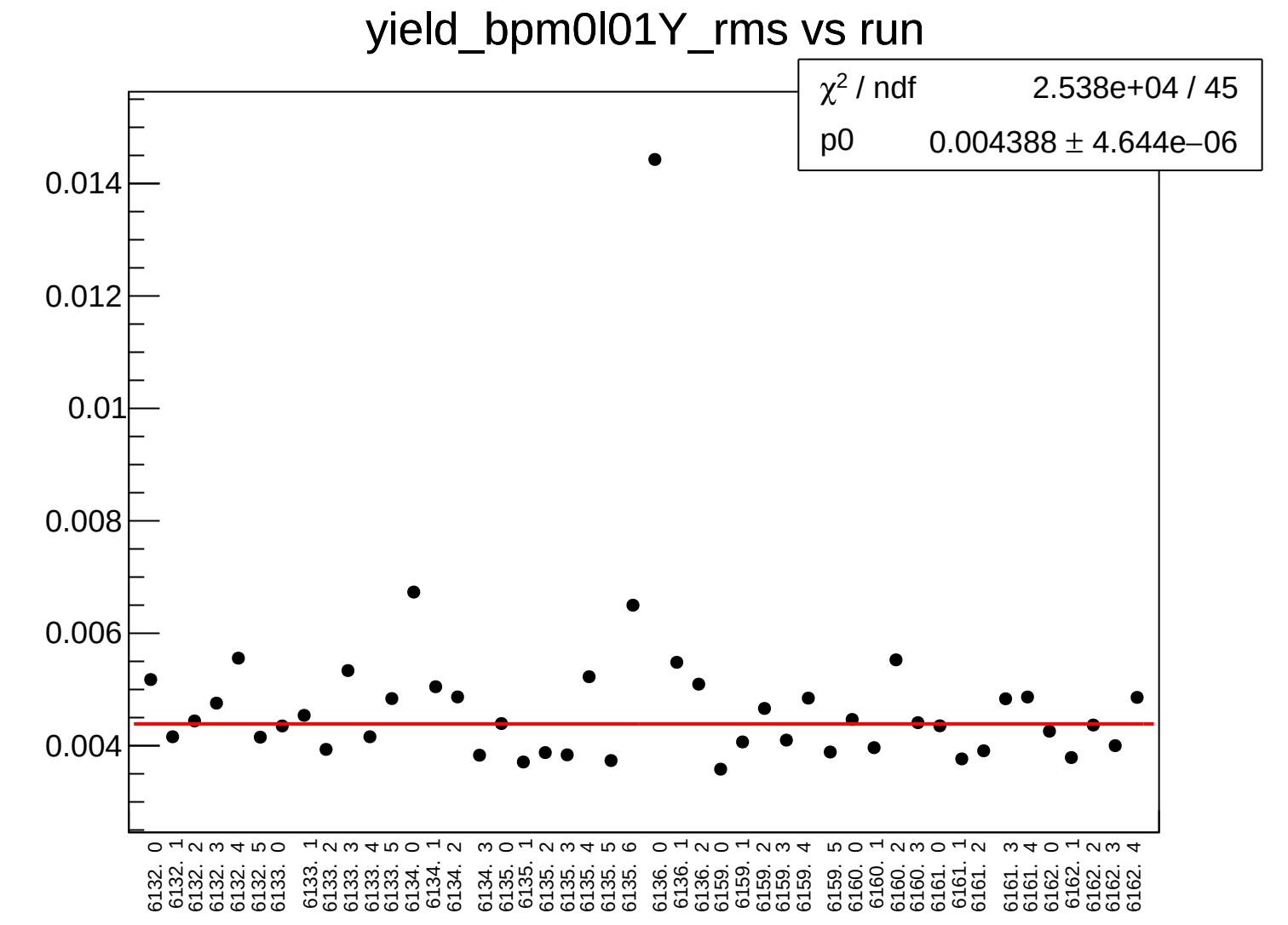

yield_bpm0i01aY_rms vs run
χ² / ndf 3.666e+04 / 45
p0 0.001795 ± 1.911e−06
0.007
0.006
0.005
0.004
0.003
0.002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

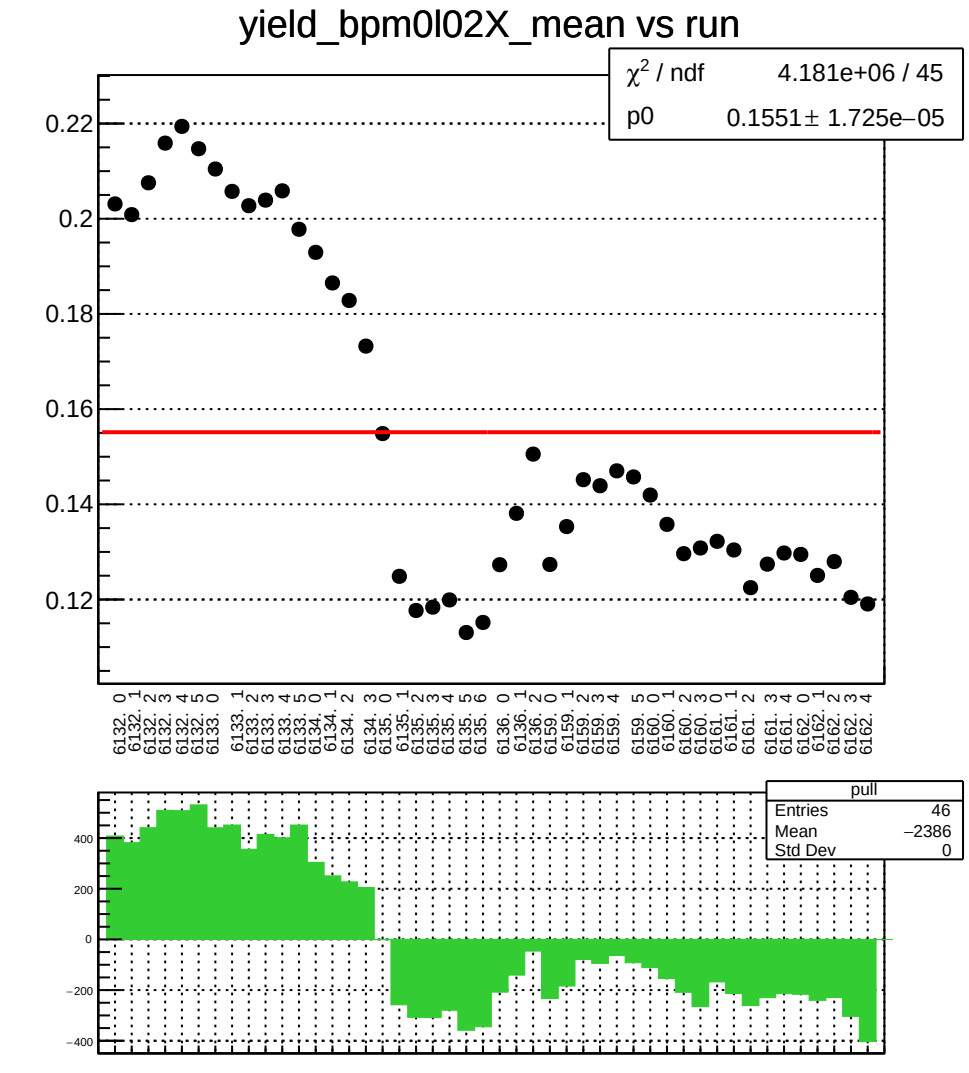

yield_bpm0l01X_mean vs run
χ² / ndf 1.582e+07 / 45
p0 −1.239 ± 9.069e−06
−1.2
−1.22
−1.24
−1.26
−1.28
−1.3
−1.32
−1.34
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 167.7
Std Dev 0
1000
500
0
−500
−1000
−1500

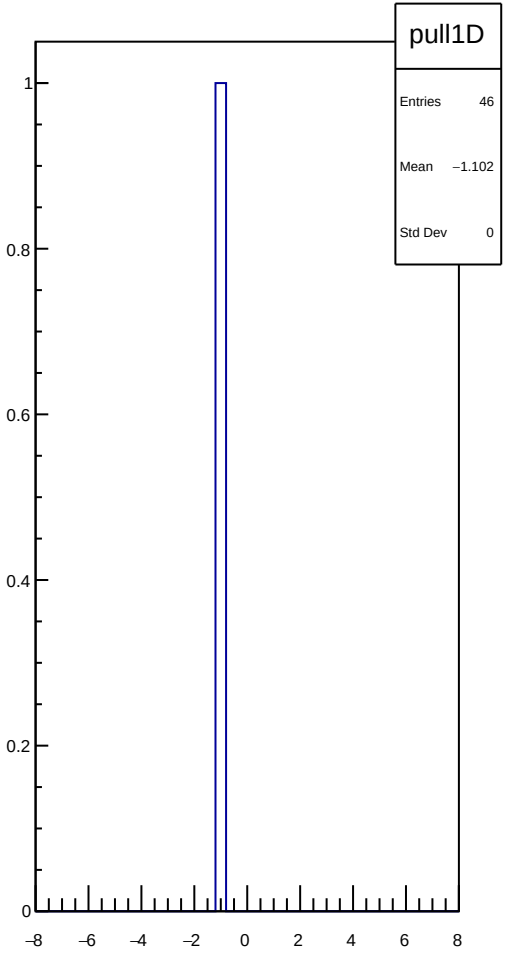

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

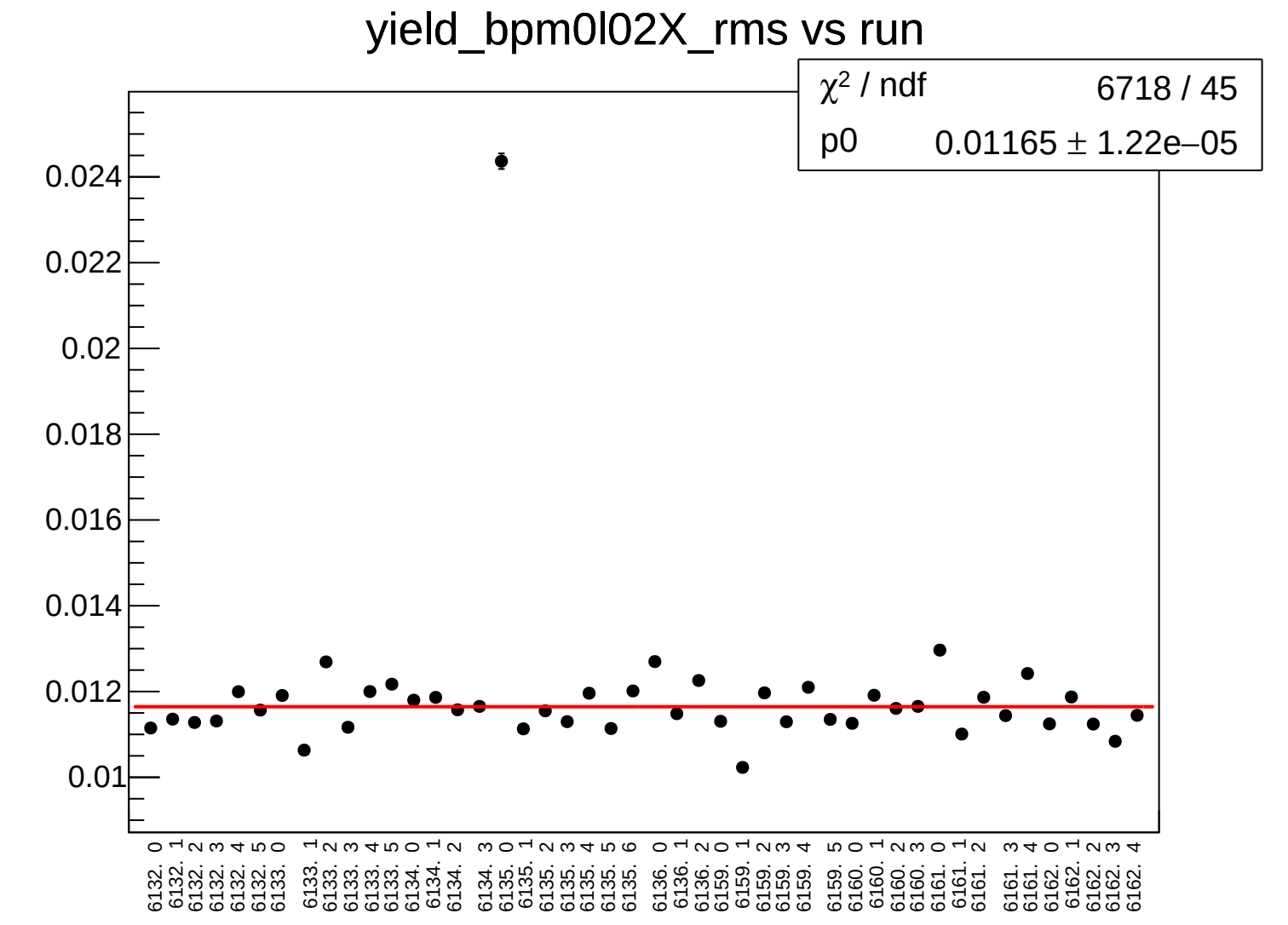

yield_bpm0l01X_rms vs run
χ² / ndf 4.152e+04 / 45
p0 0.006005 ± 6.413e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_bpm0l01Y_mean vs run
χ² / ndf 3.465e+06 / 45
p0 −5.8 ± 6.567e−06
−5.78
−5.79
−5.8
−5.81
−5.82
−5.83
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 1441
Std Dev 0
400
200
0
−200
−400
−600
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l01Y_rms vs run
χ² / ndf 2.538e+04 / 45
p0 0.004388 ± 4.644e−06
0.014
0.012
0.01
0.008
0.006
0.004
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_bpm0l02X_mean vs run
χ² / ndf 4.181e+06 / 45
p0 0.1551 ± 1.725e−05
0.22
0.2
0.18
0.16
0.14
0.12
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −2386
Std Dev 0
400
200
0
−200
−400


pull1D
Entries 46
Mean −1.102
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l02X_rms vs run
χ² / ndf 6718 / 45
p0 0.01165 ± 1.22e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
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6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
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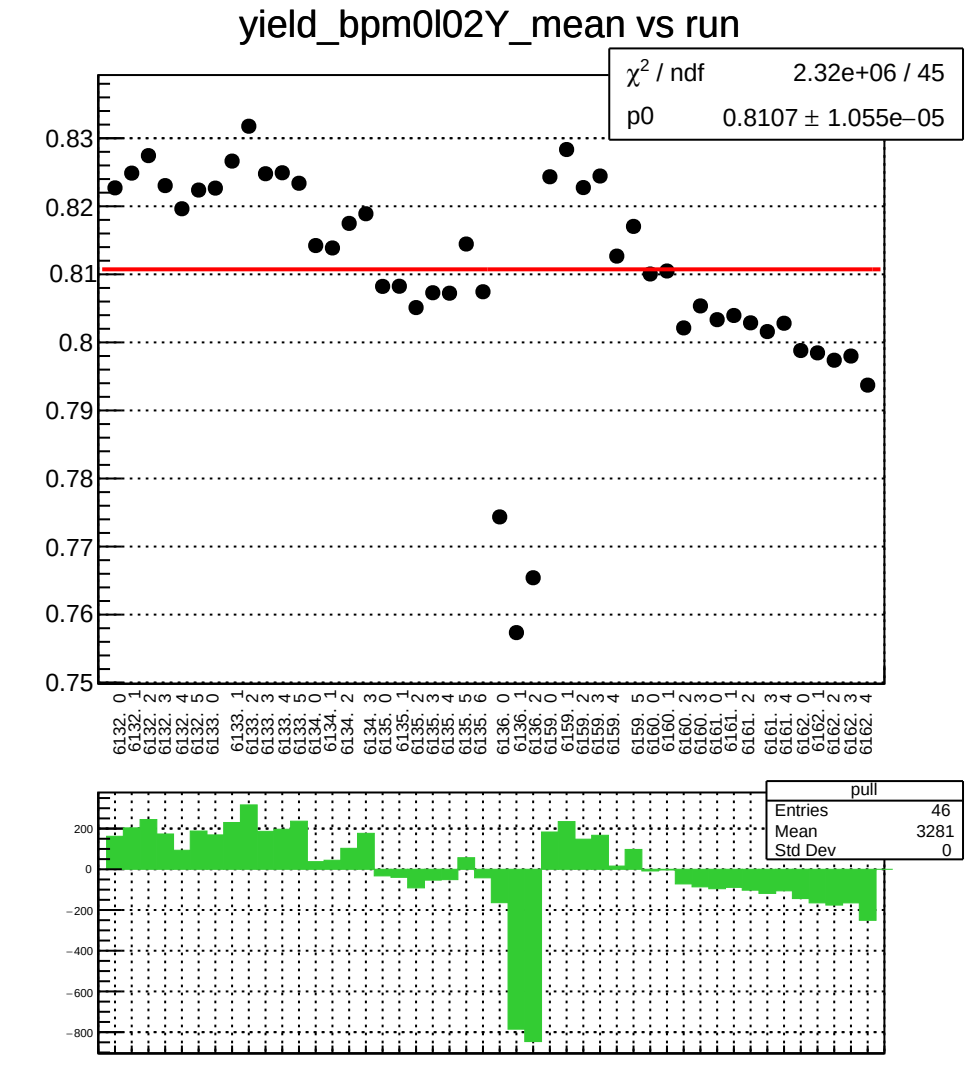
6162. 3
6162. 4


yield_bpm0l02Y_mean vs run
χ² / ndf 2.32e+06 / 45
p0 0.8107 ± 1.055e−05
0.83
0.82
0.81
0.8
0.79
0.78
0.77
0.76
0.75
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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
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6135. 4
6135. 5
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6136. 2
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6159. 3
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6159. 5
6160. 0
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6160. 2
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6161. 0
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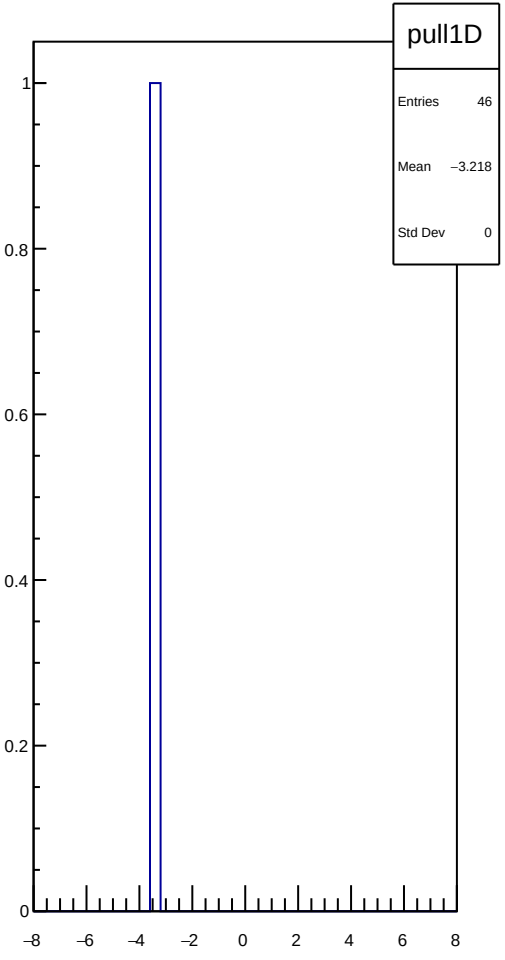
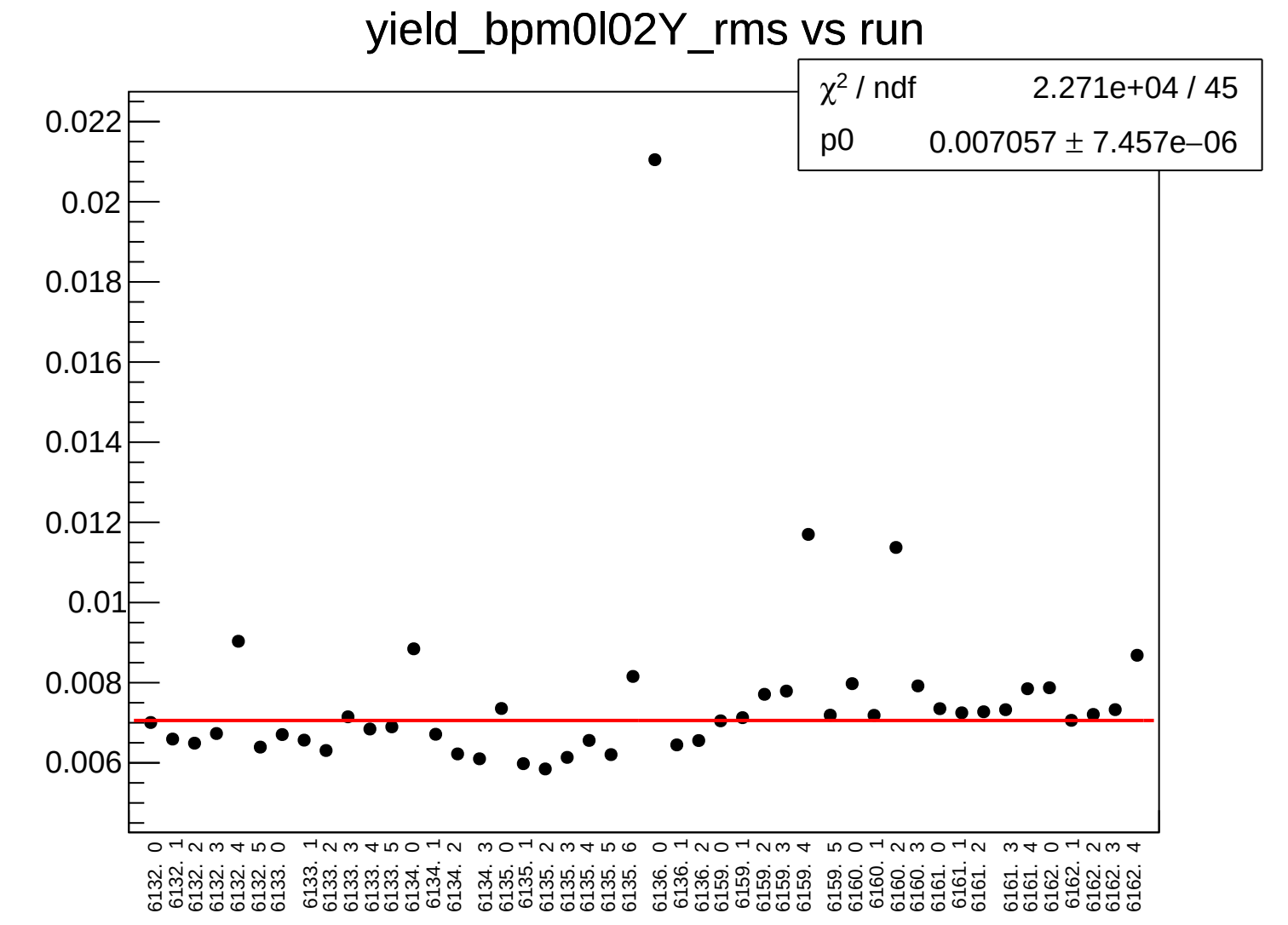
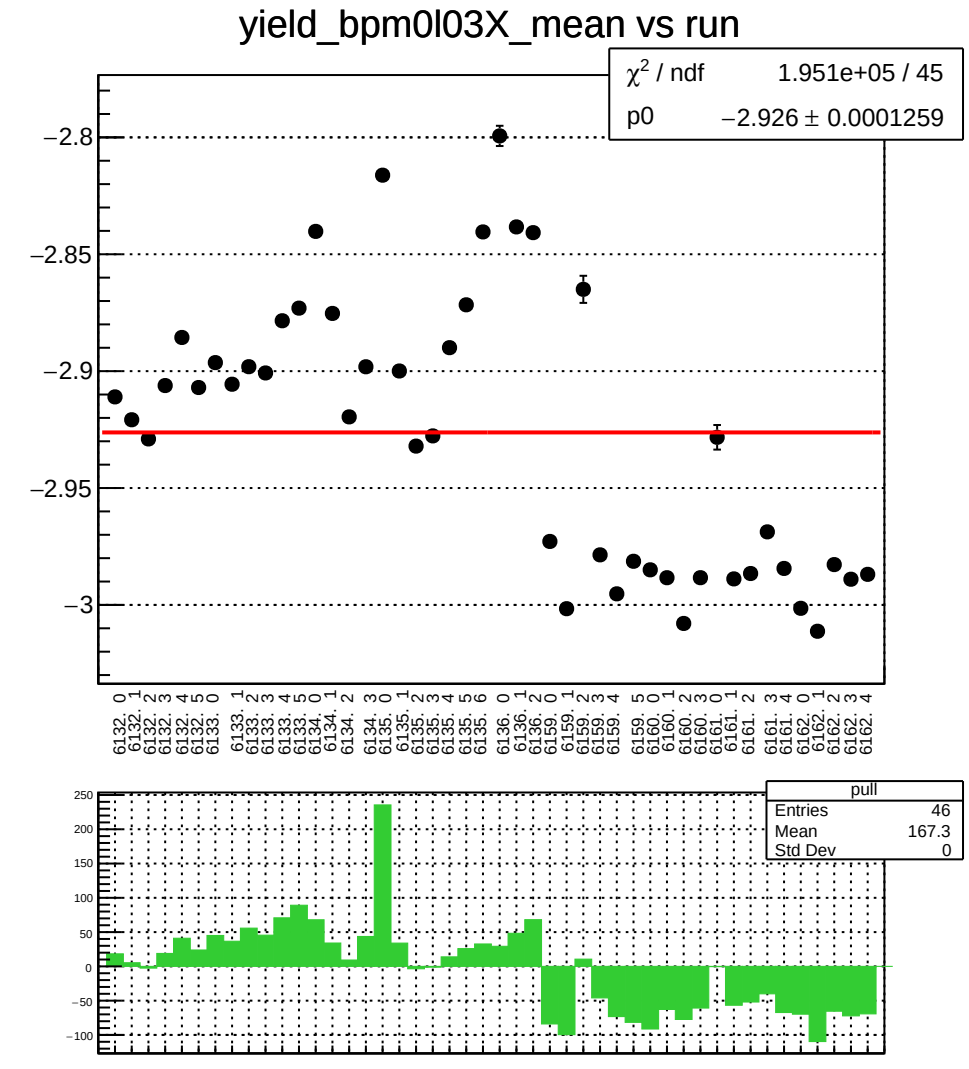
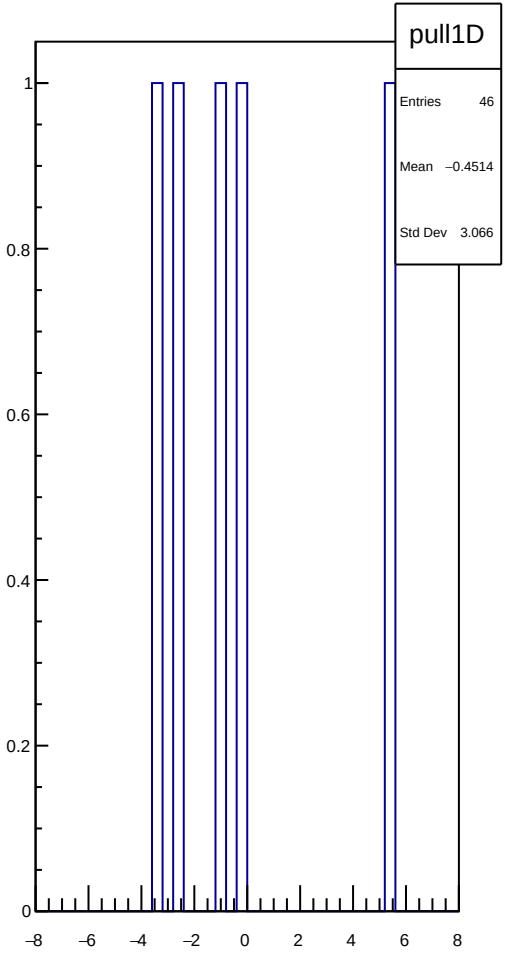
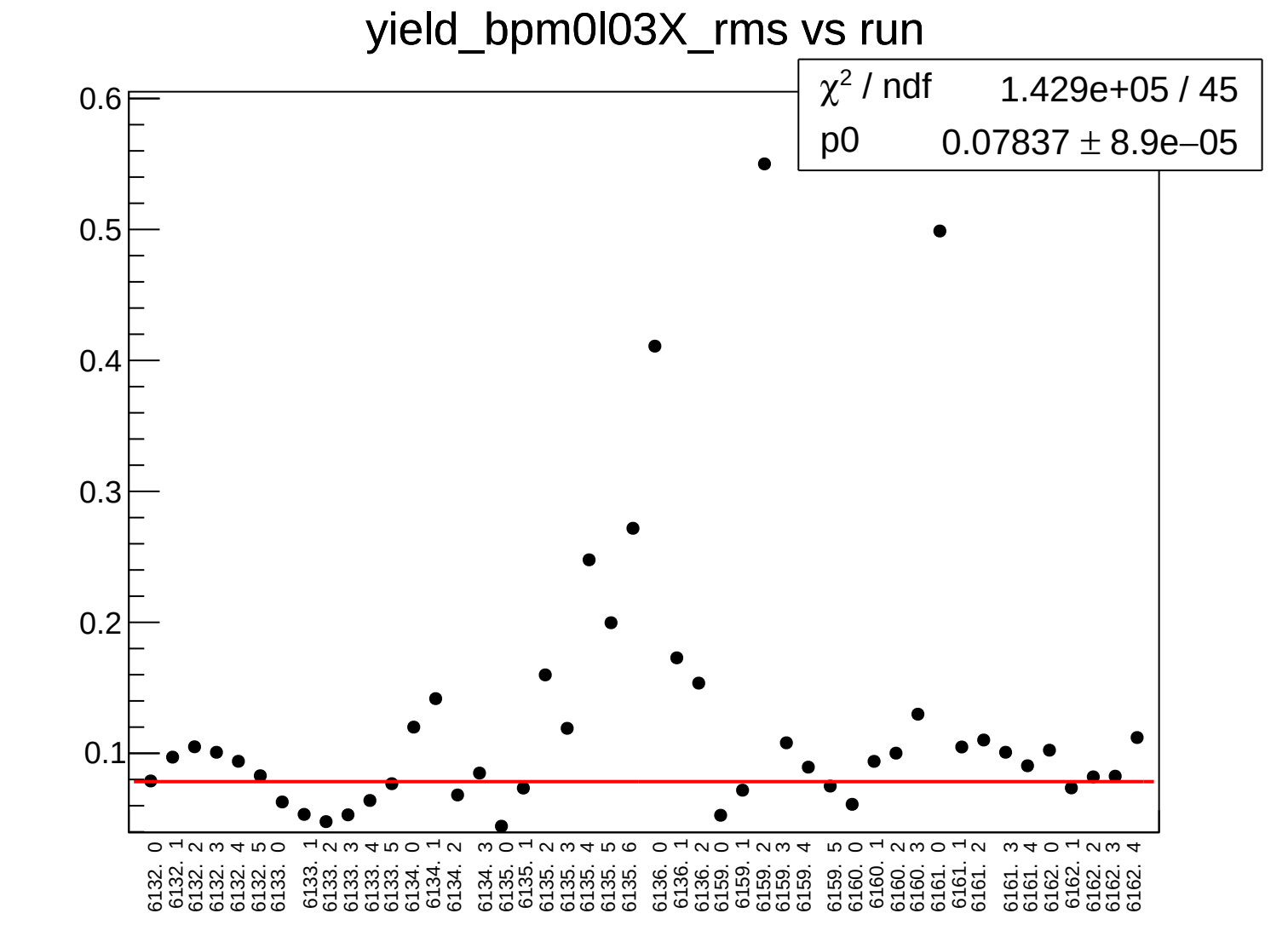
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 3281
Std Dev 0
200
0
−200
−400
−600
−800

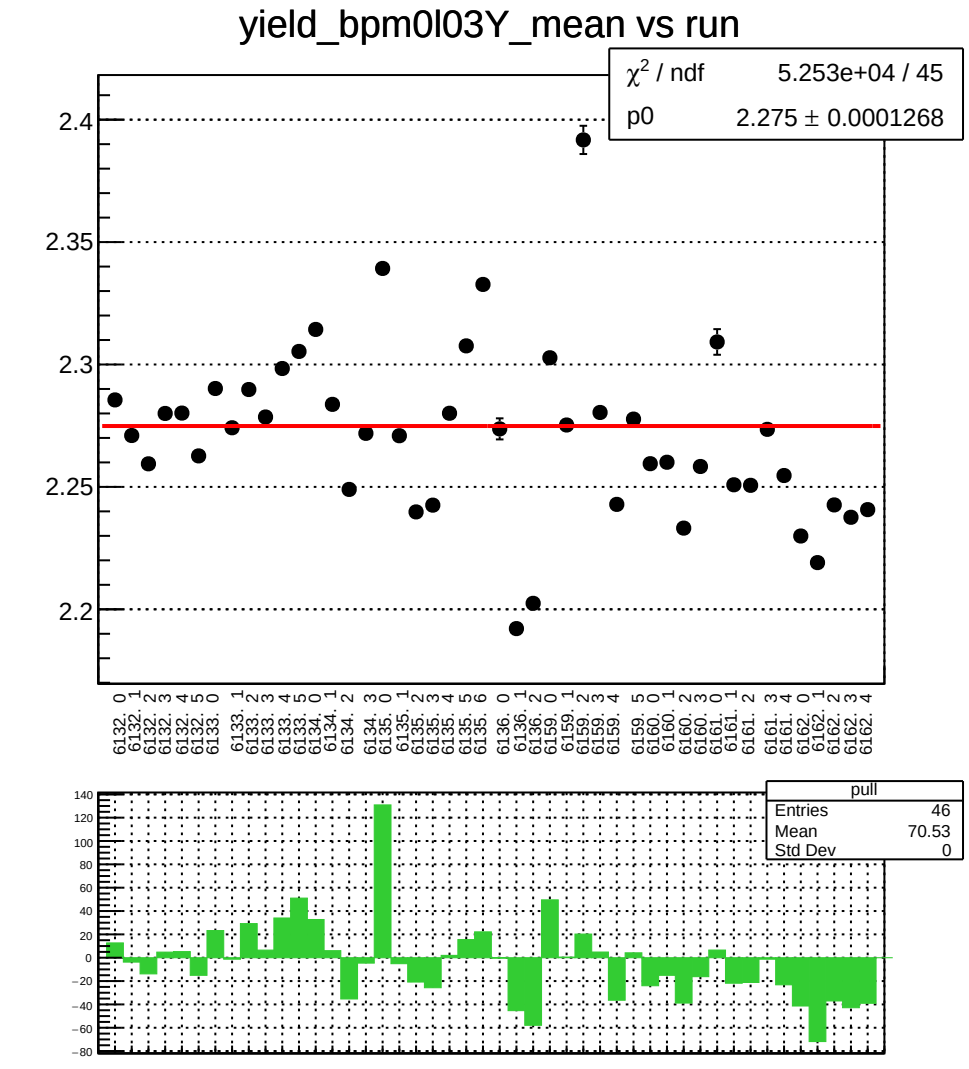

pull1D
Entries 46
Mean −3.218
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

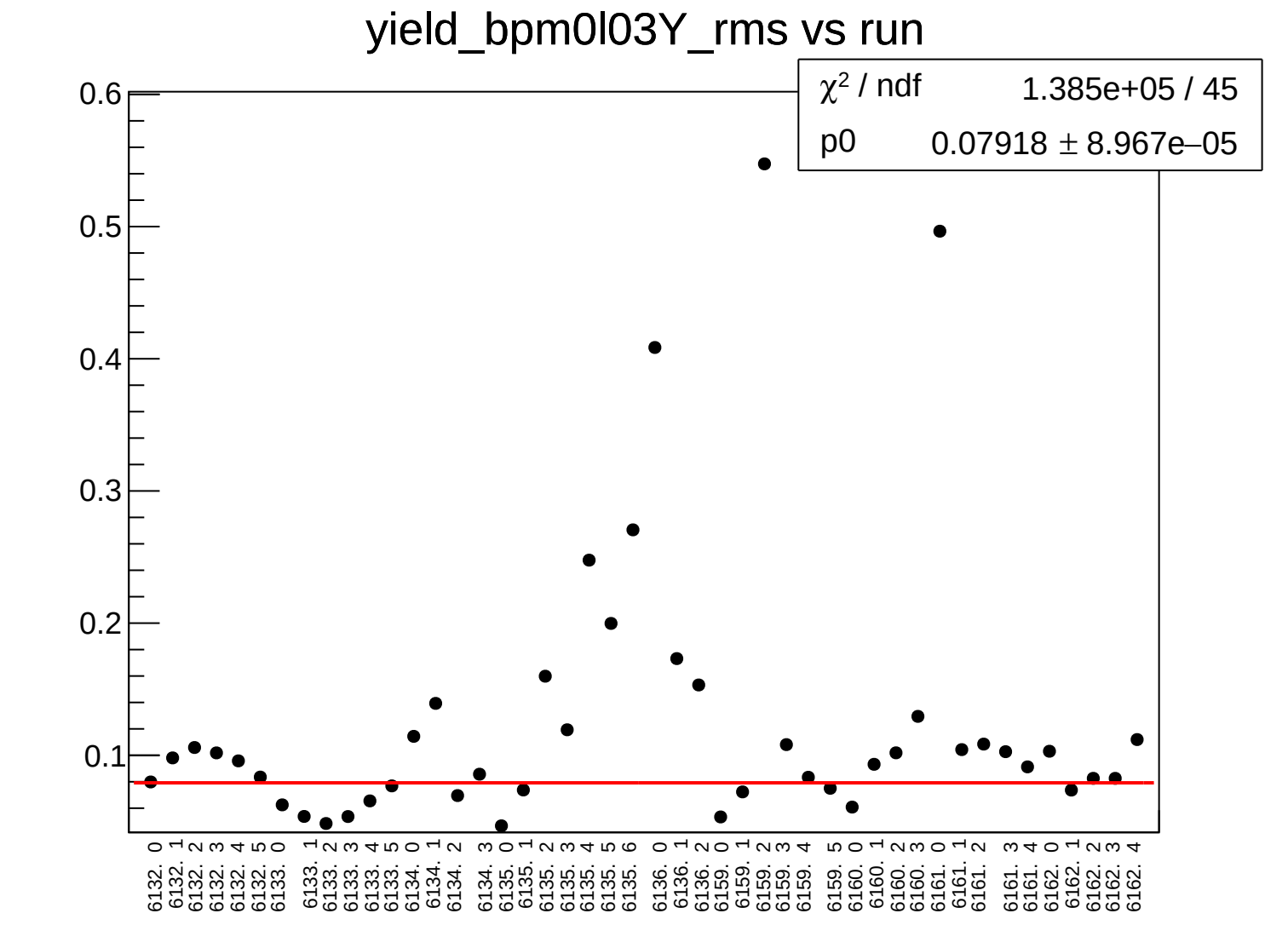

yield_bpm0l02Y_rms vs run
χ² / ndf 2.271e+04 / 45
p0 0.007057 ± 7.457e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

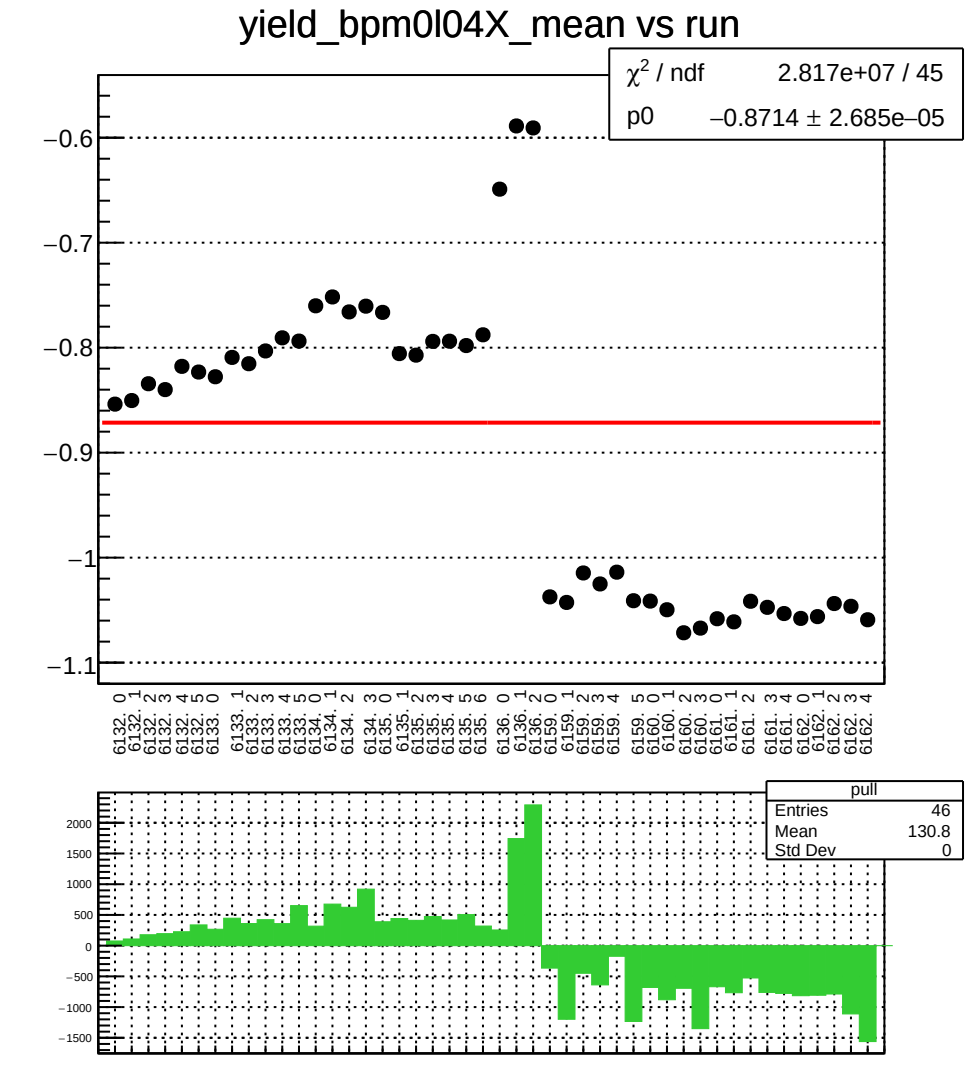

yield_bpm0l03X_mean vs run
χ² / ndf 1.951e+05 / 45
p0 −2.926 ± 0.0001259
−2.8
−2.85
−2.9
−2.95
−3
pull
Entries 46
Mean 167.3
Std Dev 0
250
200
150
100
50
0
−50
−100

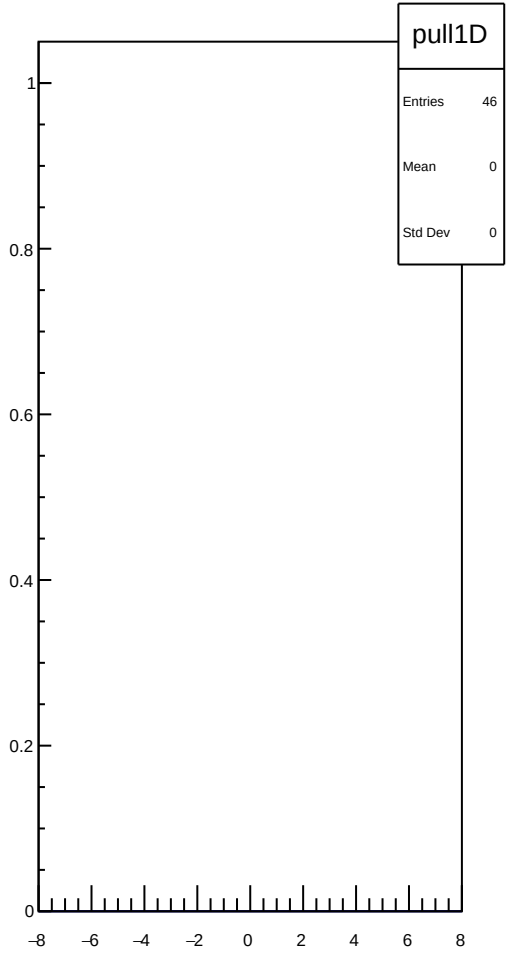

pull1D
Entries 46
Mean −0.4514
Std Dev 3.066
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

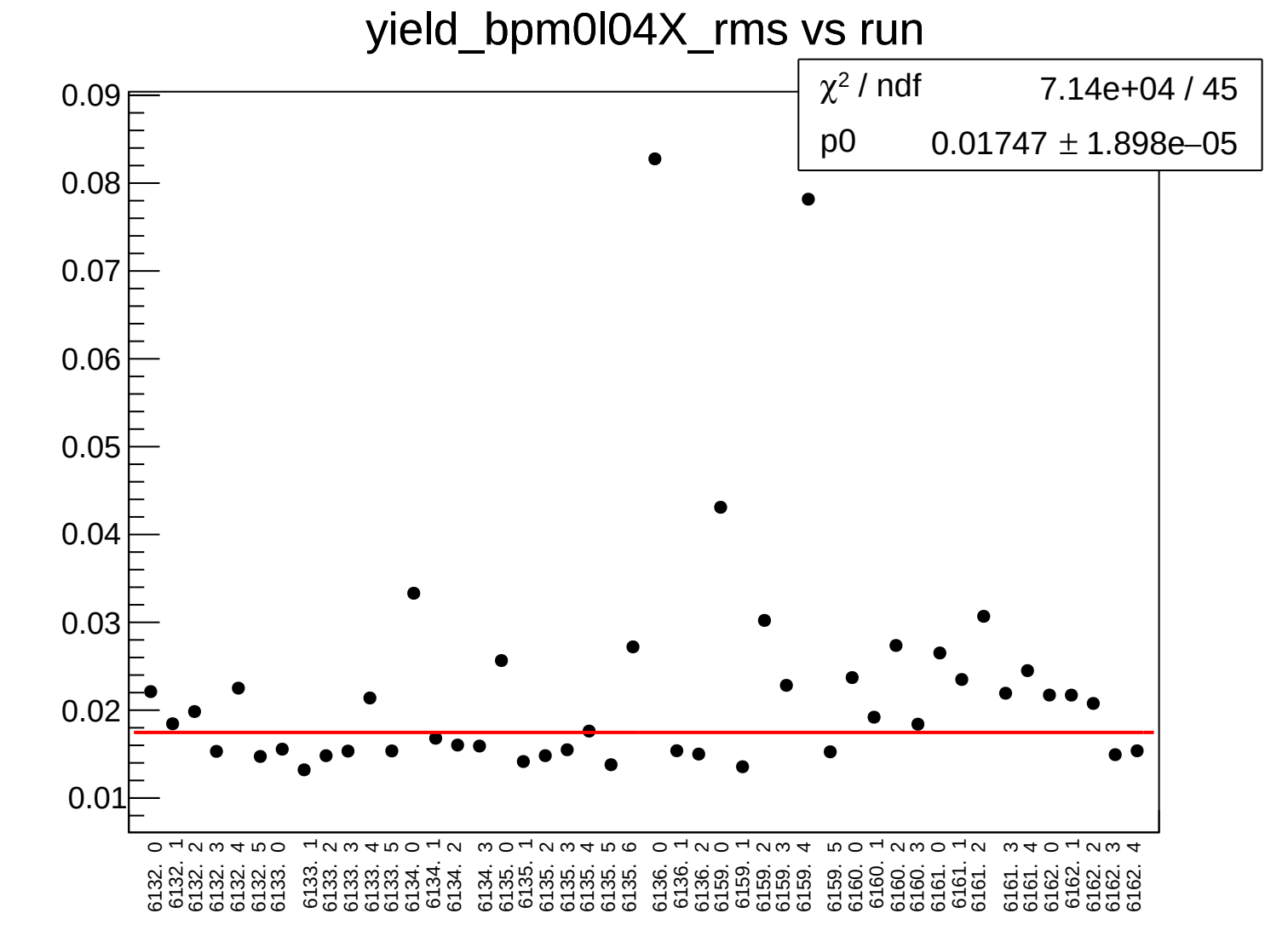

yield_bpm0l03X_rms vs run
χ² / ndf 1.429e+05 / 45
p0 0.07837 ± 8.9e−05
0.6
0.5
0.4
0.3
0.2
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

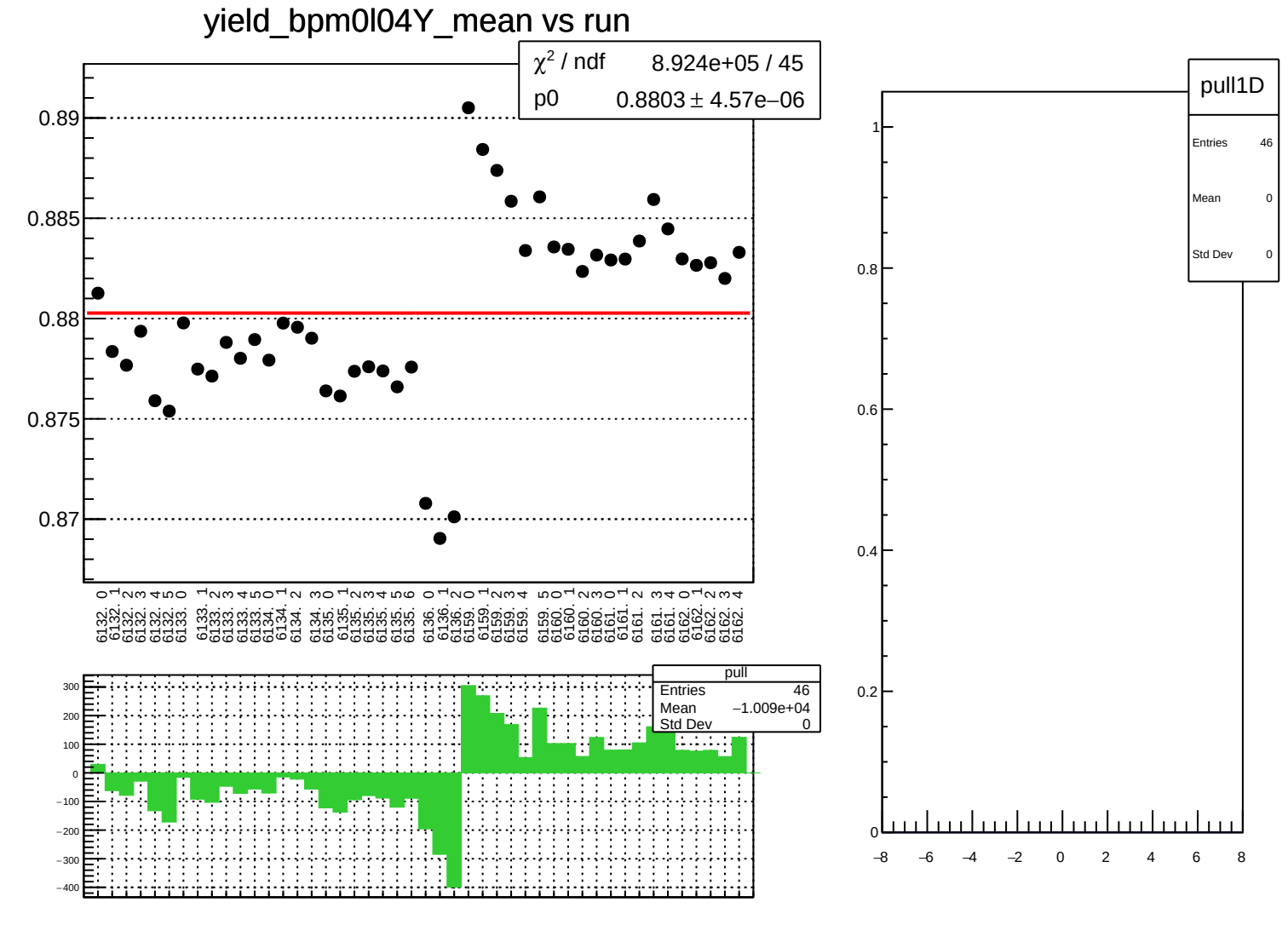

yield_bpm0l03Y_mean vs run
χ² / ndf 5.253e+04 / 45
p0 2.275 ± 0.0001268
2.4
2.35
2.3
2.25
2.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 70.53
Std Dev 0
140
120
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 46
Mean 1.633
Std Dev 4.018
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

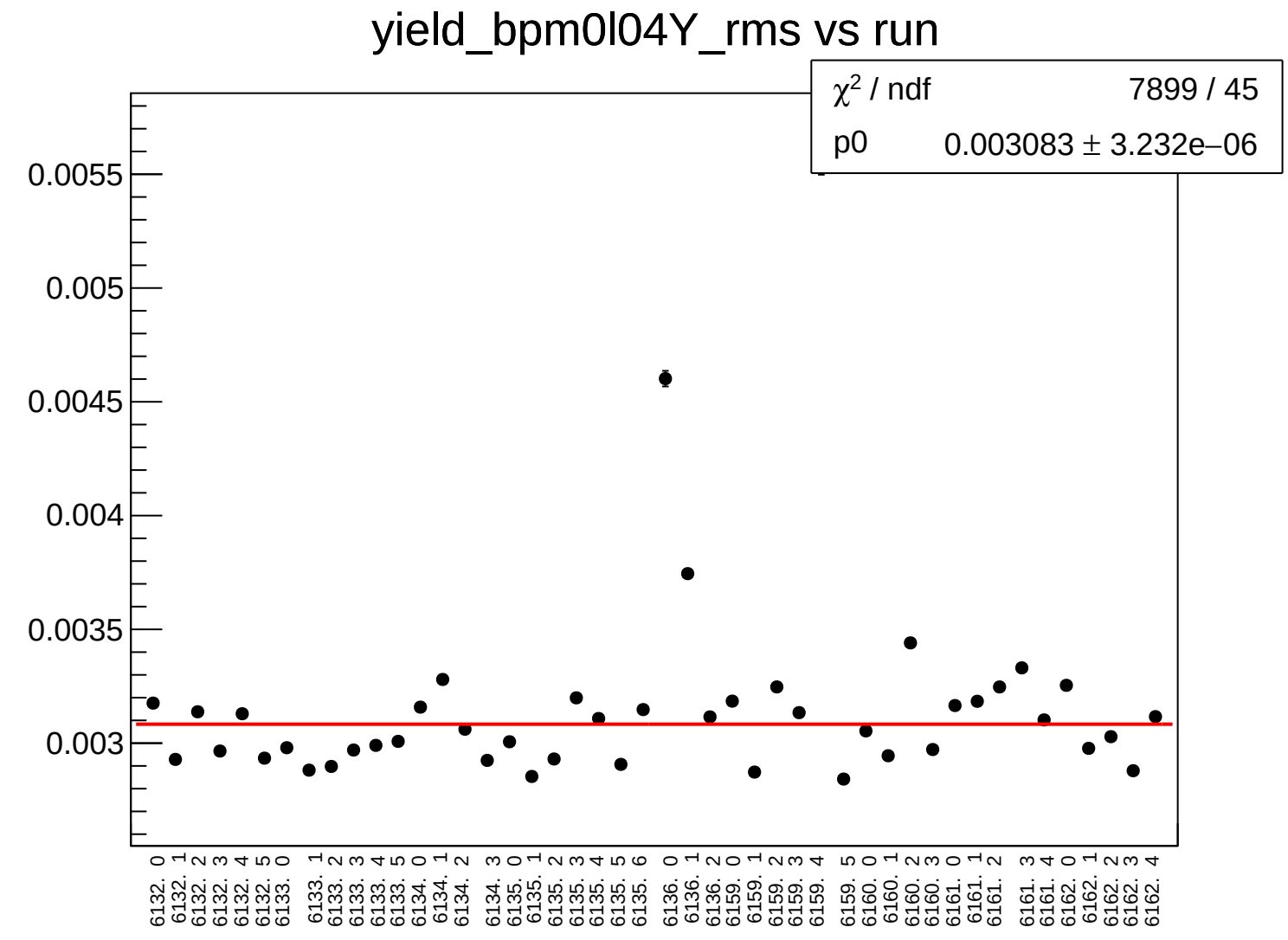

yield_bpm0l03Y_rms vs run
χ² / ndf 1.385e+05 / 45
p0 0.07918 ± 8.967e–05
0.6
0.5
0.4
0.3
0.2
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

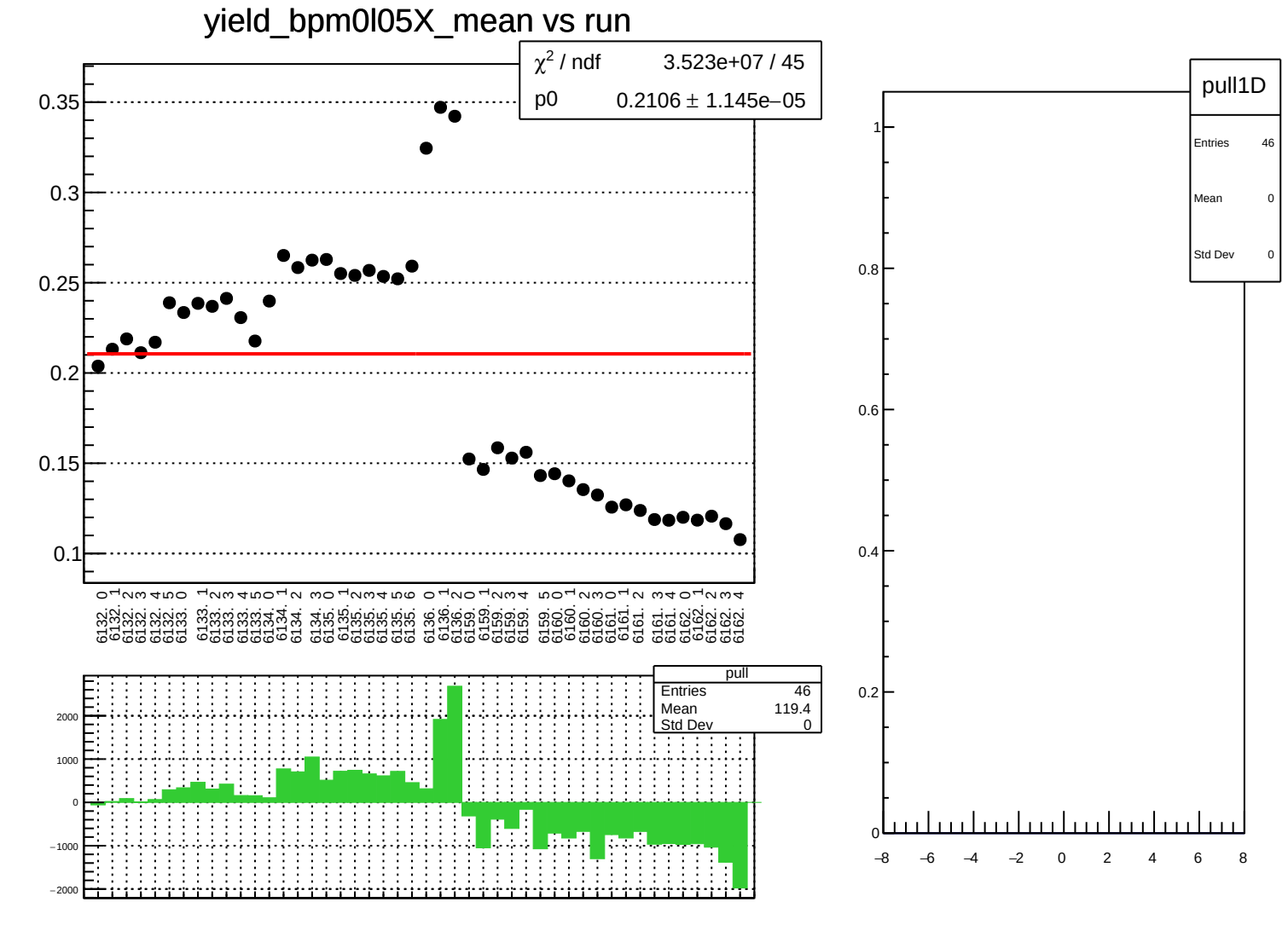

yield_bpm0l04X_mean vs run
χ² / ndf 2.817e+07 / 45
p0 −0.8714 ± 2.685e−05
−0.6
−0.7
−0.8
−0.9
−1
−1.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 130.8
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500

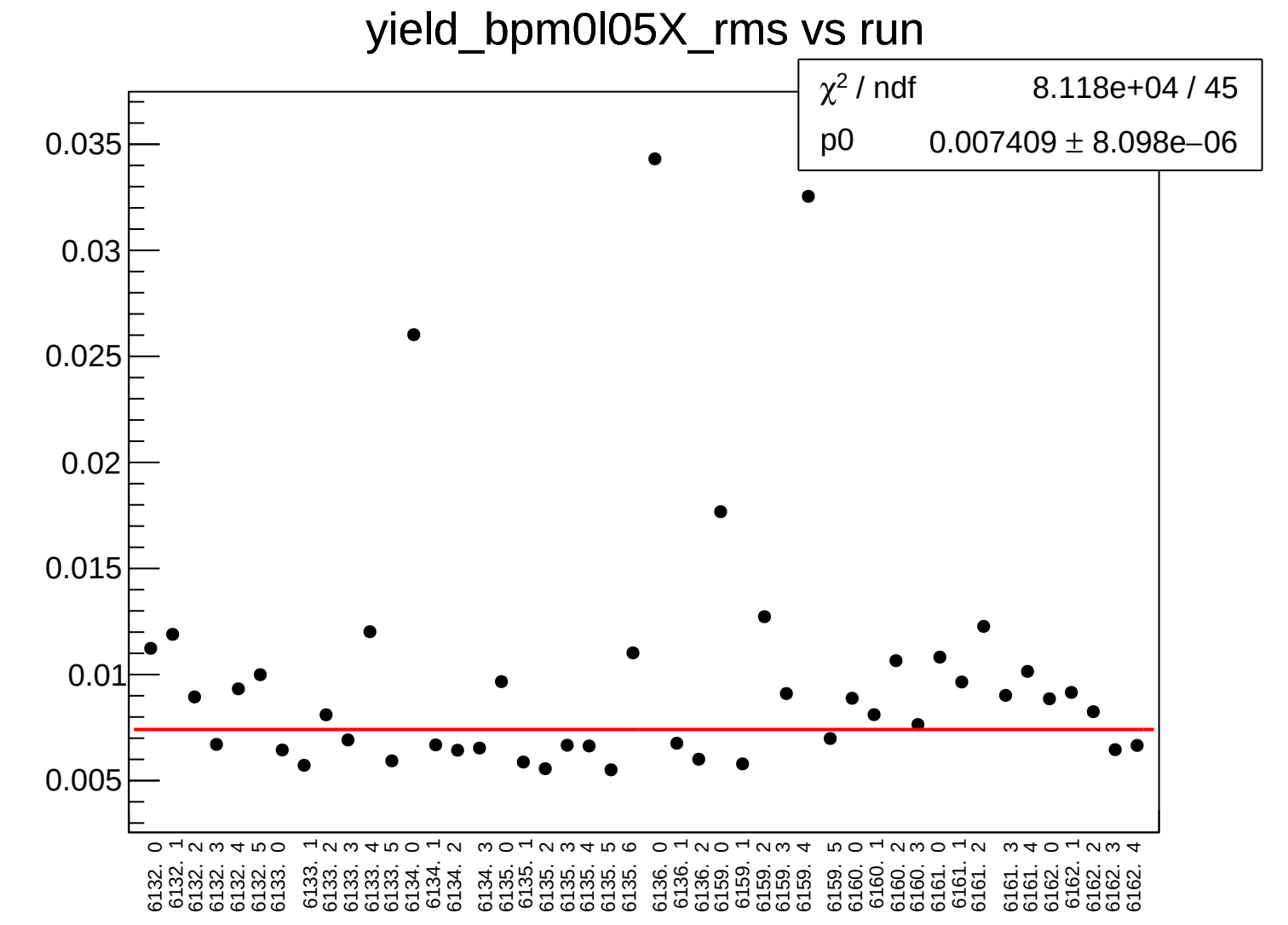

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

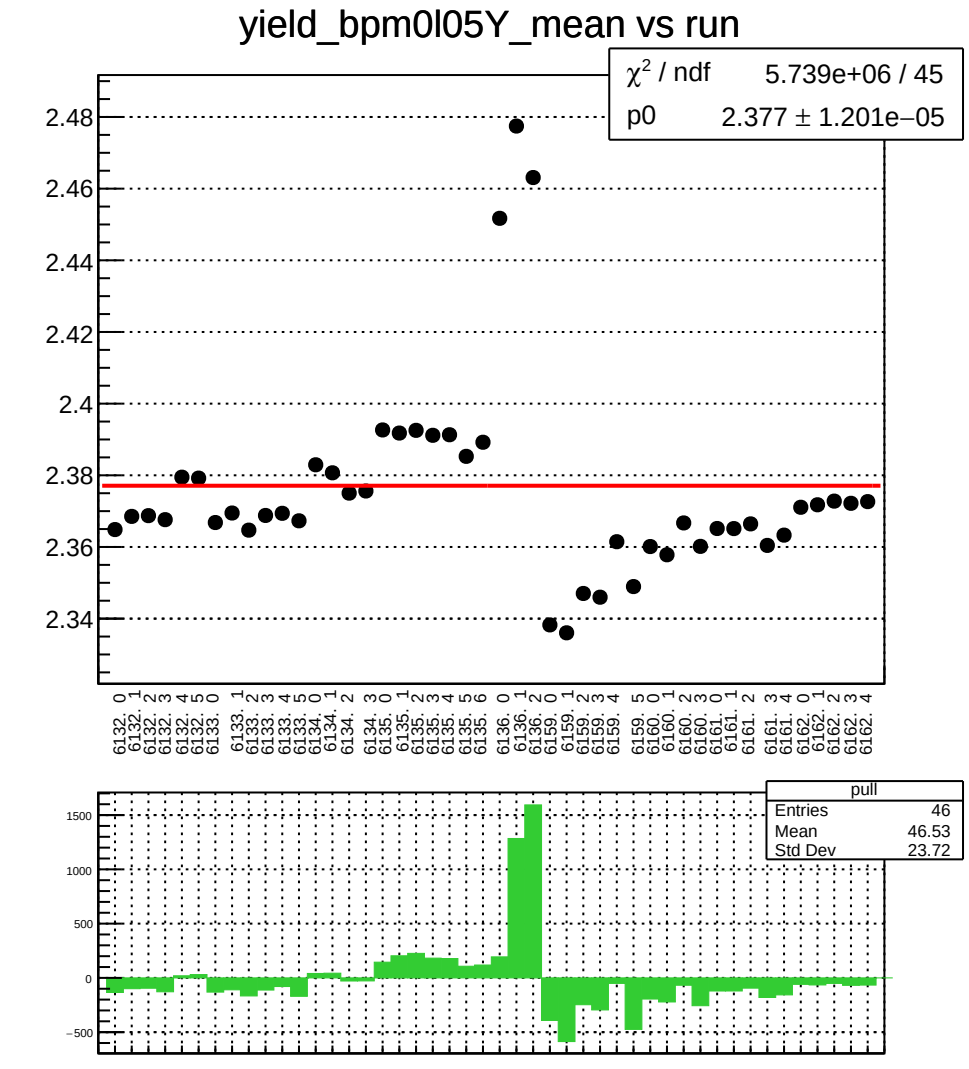

yield_bpm0l04X_rms vs run
χ² / ndf 7.14e+04 / 45
p0 0.01747 ± 1.898e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

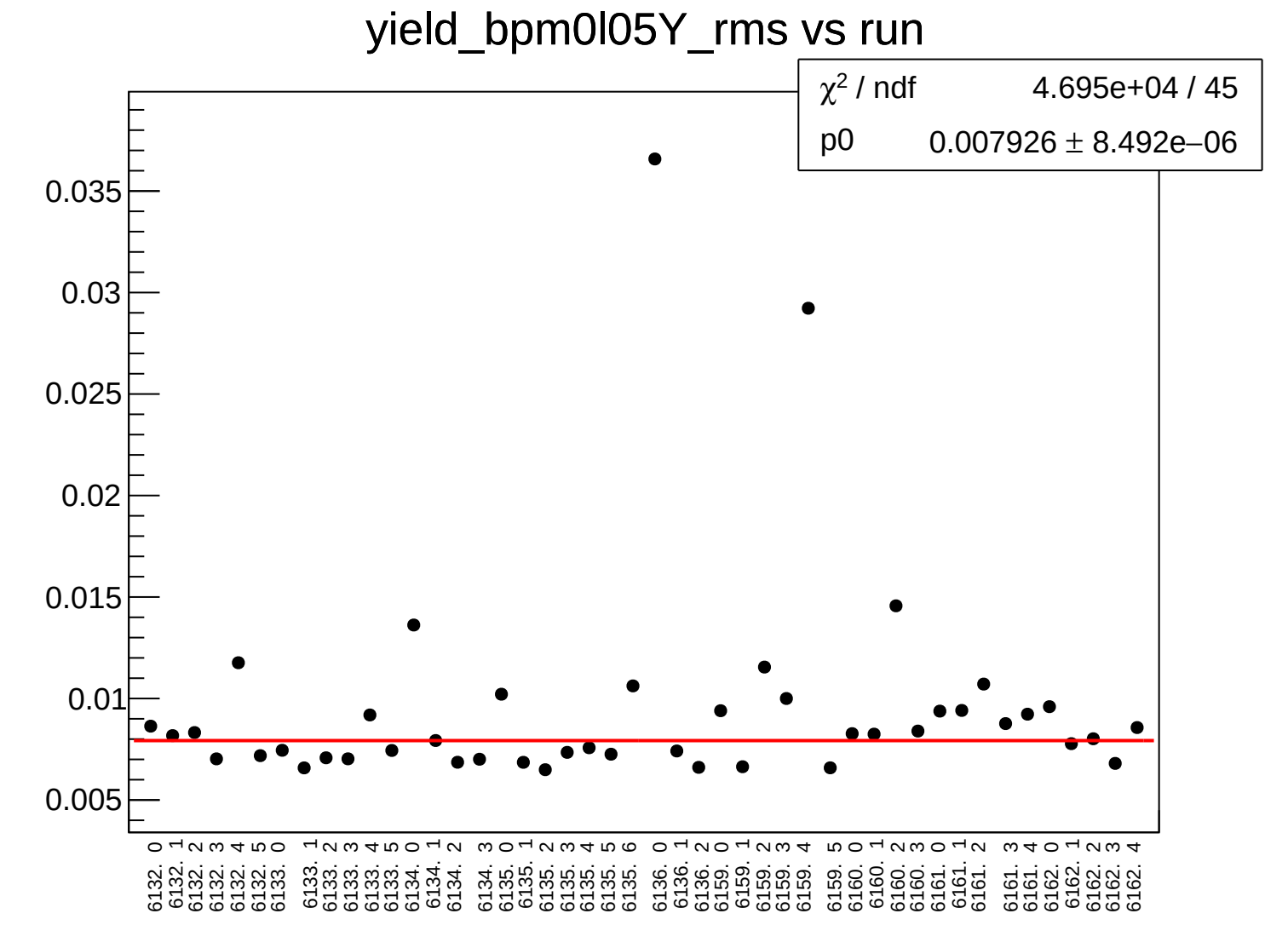

yield_bpm0l04Y_mean vs run
χ² / ndf 8.924e+05 / 45
p0 0.8803 ± 4.57e−06
0.89
0.885
0.88
0.875
0.87
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1.009e+04
Std Dev 0
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

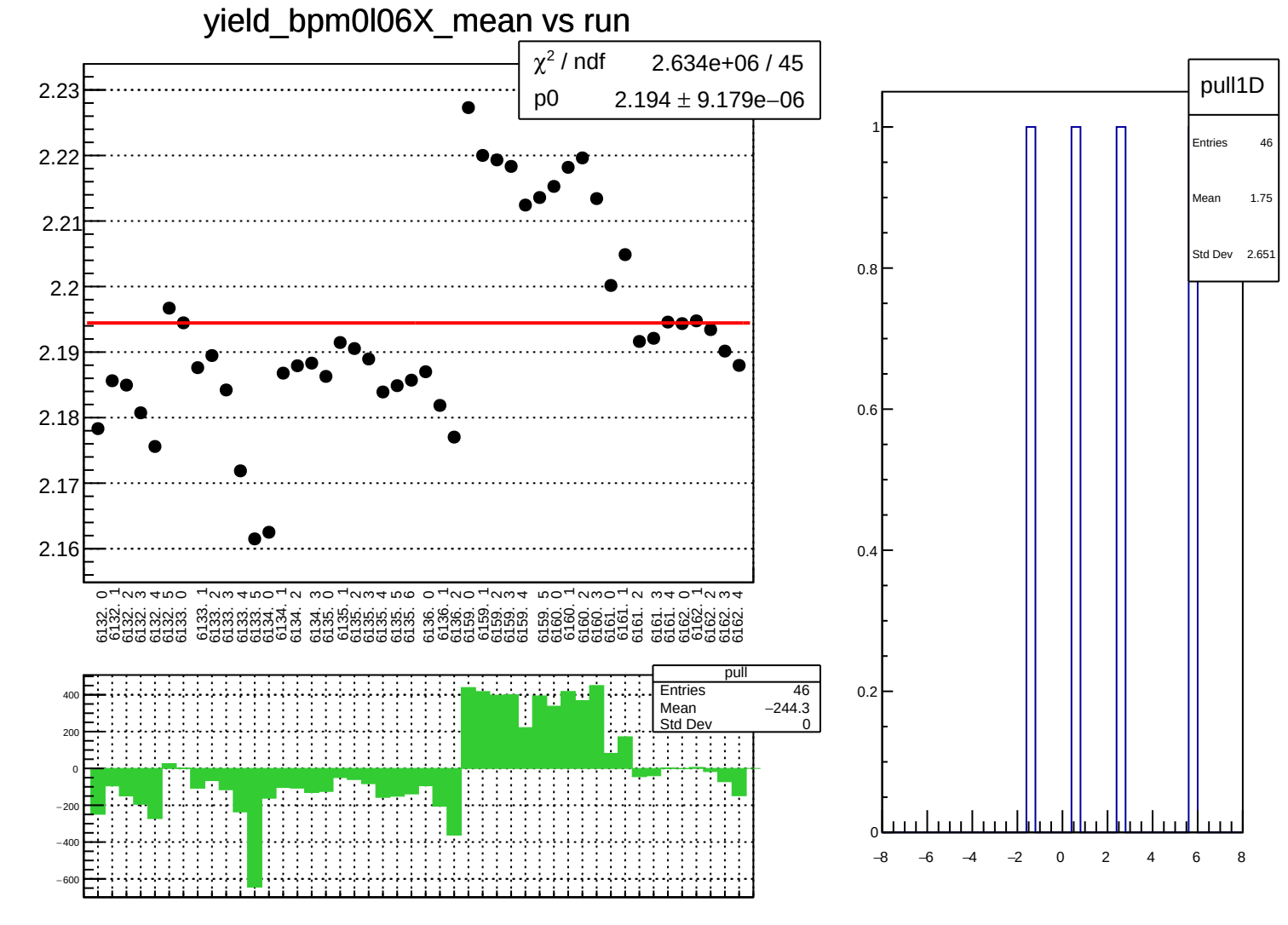

yield_bpm0l04Y_rms vs run
χ² / ndf 7899 / 45
p0 0.003083 ± 3.232e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

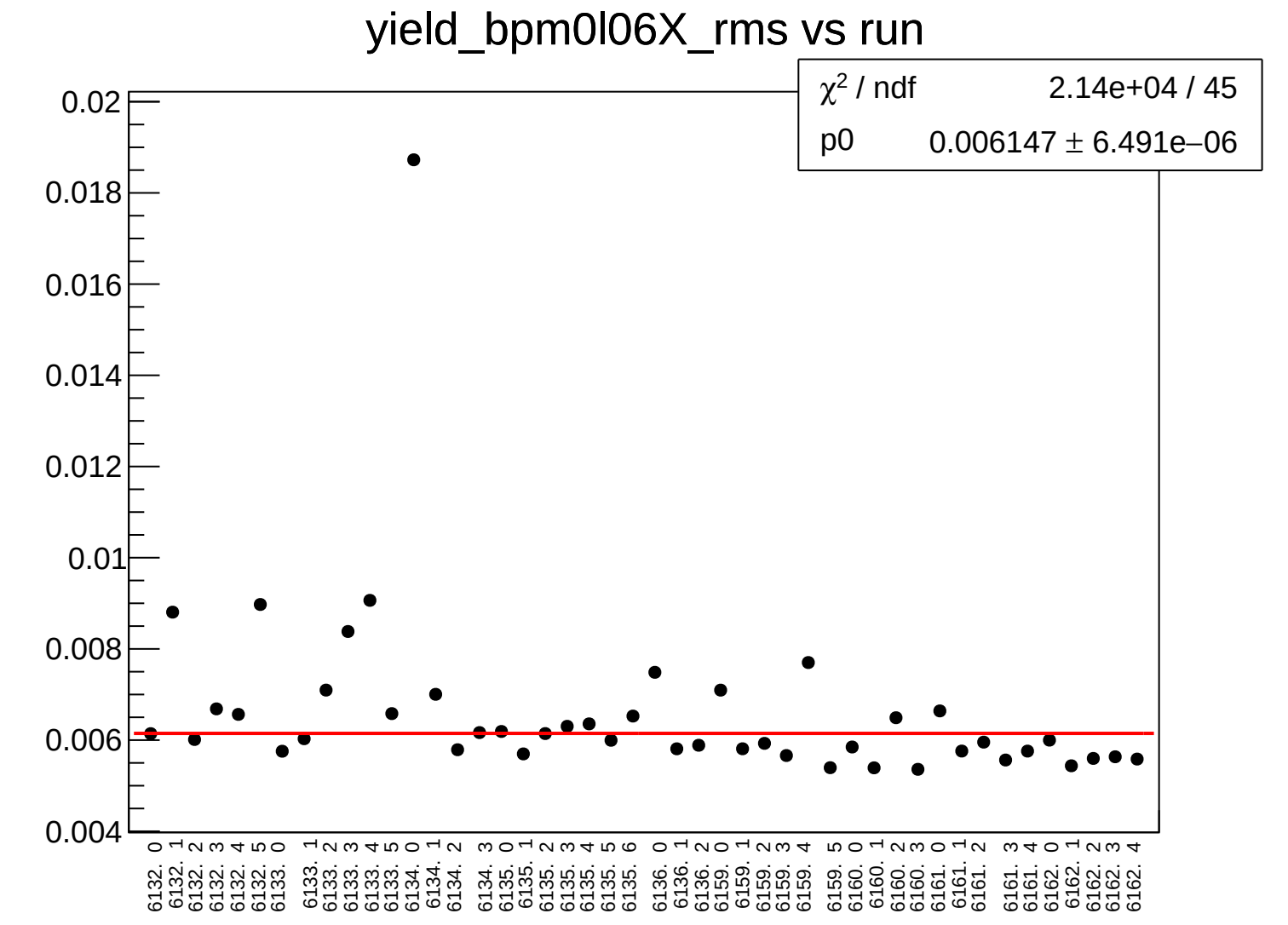

yield_bpm0l05X_mean vs run
χ² / ndf 3.523e+07 / 45
p0 0.2106 ± 1.145e−05
0.35
0.3
0.25
0.2
0.15
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 119.4
Std Dev 0
2000
1000
0
−1000
−2000
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

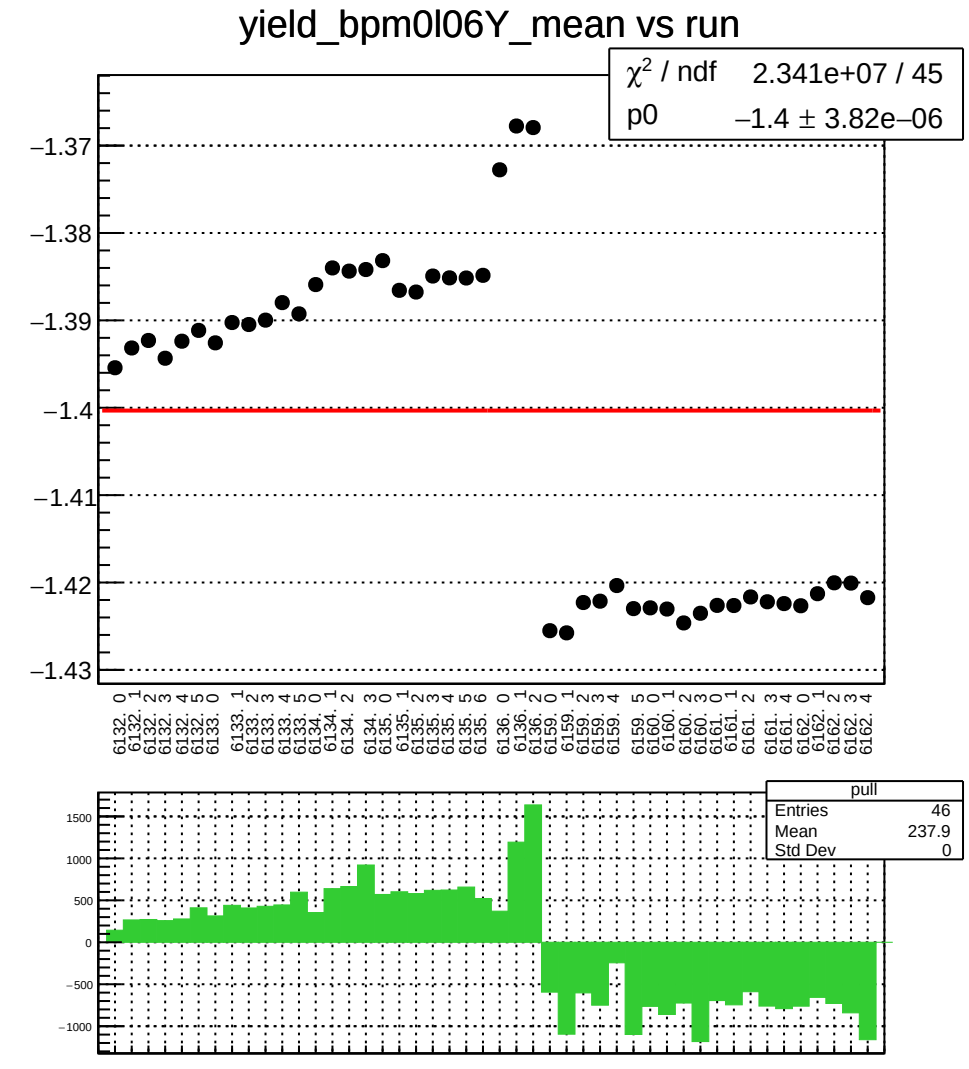

yield_bpm0l05X_rms vs run
χ² / ndf 8.118e+04 / 45
p0 0.007409 ± 8.098e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

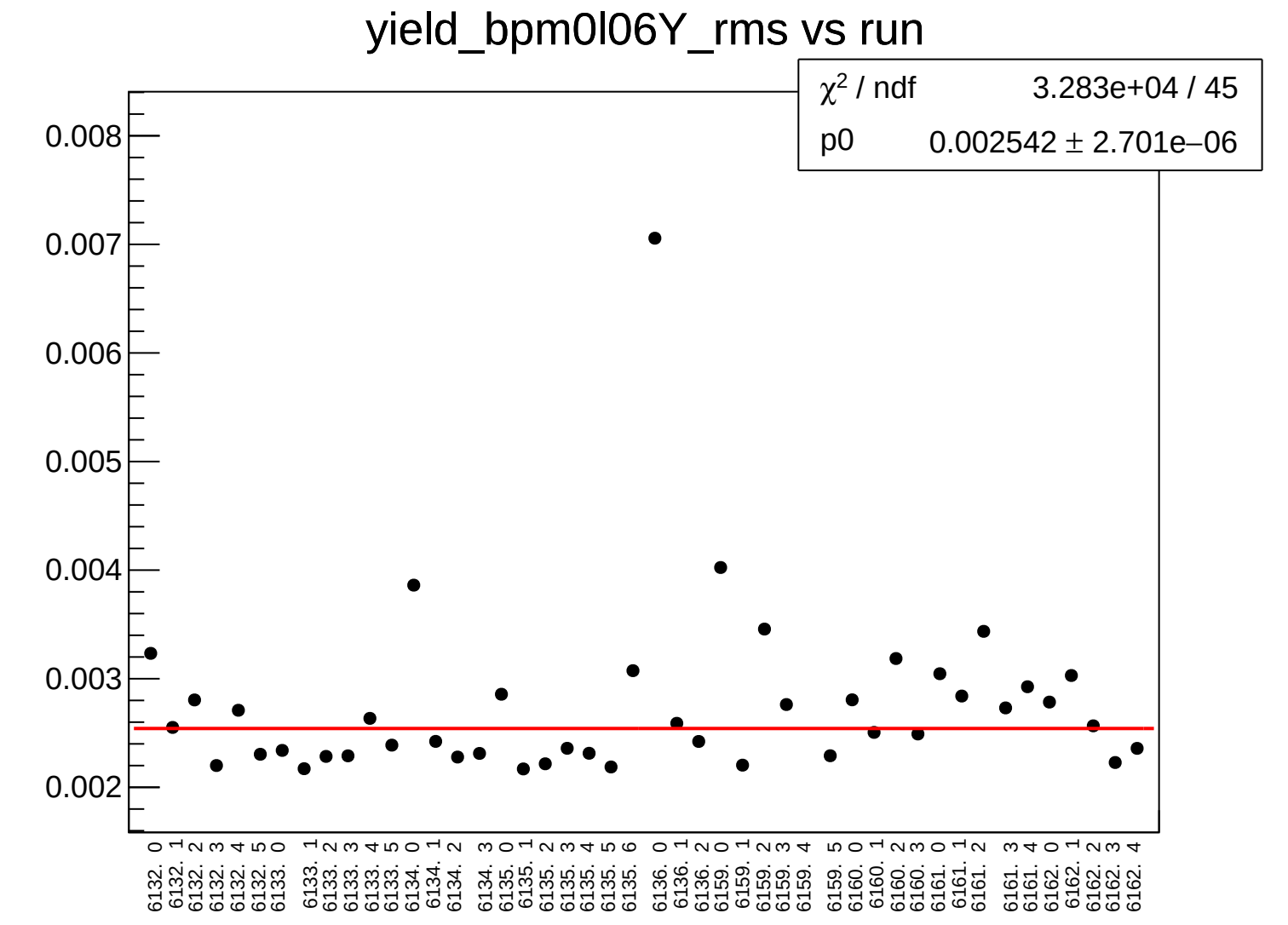

yield_bpm0l05Y_mean vs run
χ² / ndf 5.739e+06 / 45
p0 2.377 ± 1.201e−05
2.48
2.46
2.44
2.42
2.4
2.38
2.36
2.34
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 46.53
Std Dev 23.72
1500
1000
500
0
−500
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

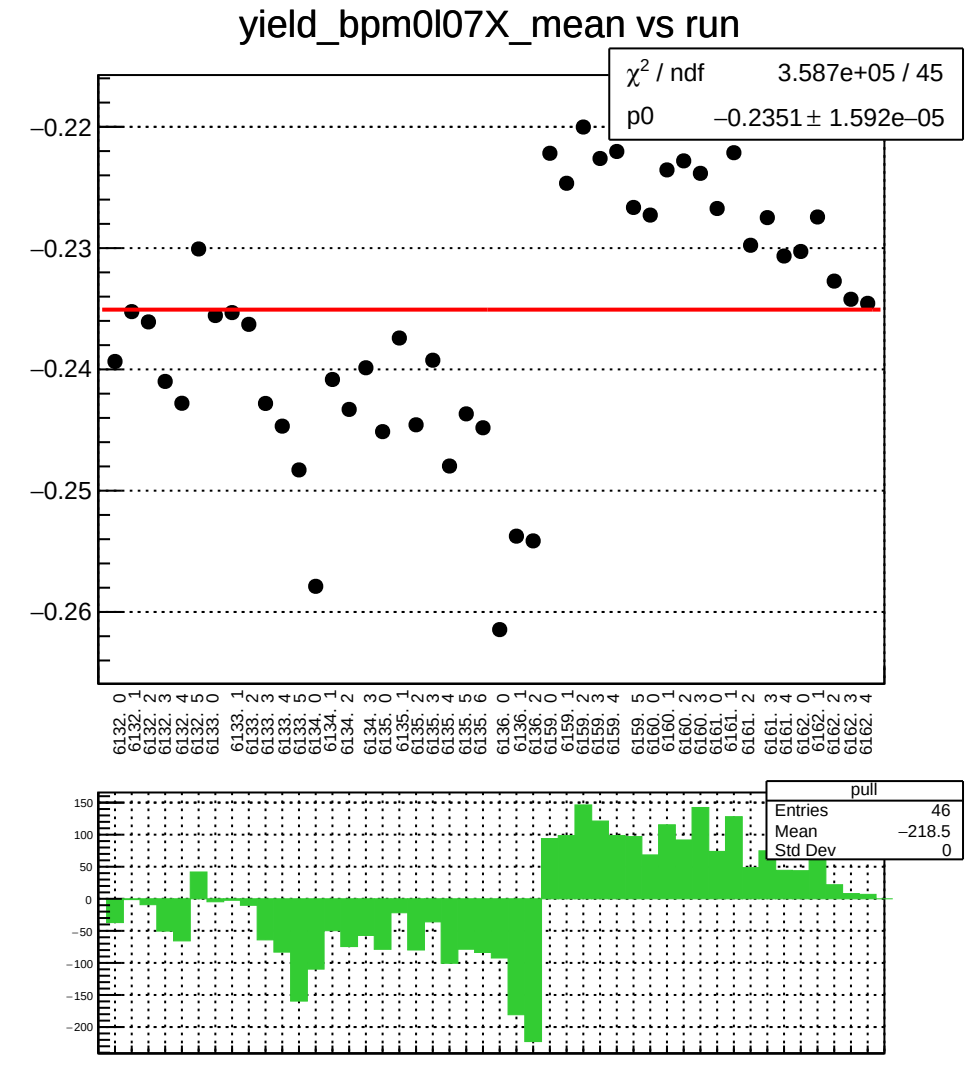

yield_bpm0l05Y_rms vs run
χ² / ndf 4.695e+04 / 45
p0 0.007926 ± 8.492e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

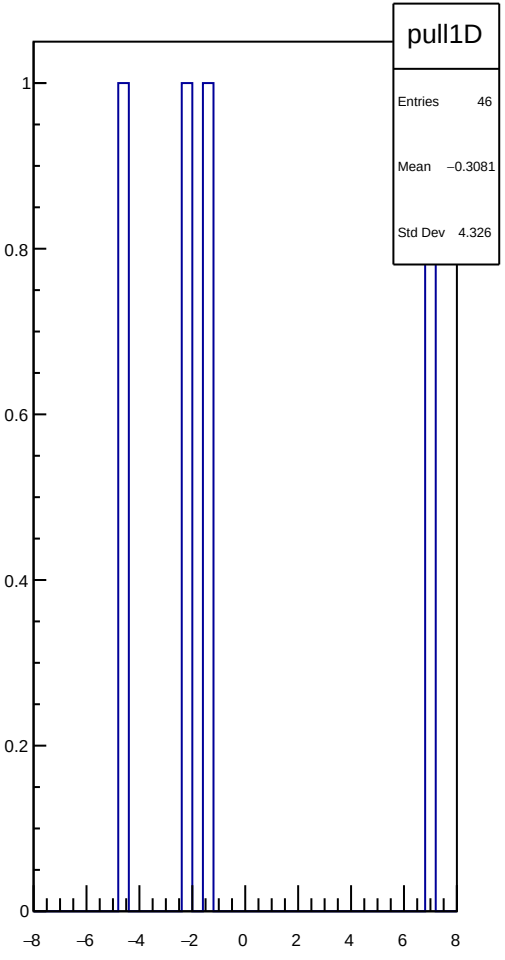

yield_bpm0l06X_mean vs run
χ² / ndf 2.634e+06 / 45
p0 2.194 ± 9.179e−06
2.23
2.22
2.21
2.2
2.19
2.18
2.17
2.16
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −244.3
Std Dev 0
400
200
0
−200
−400
−600
pull1D
Entries 46
Mean 1.75
Std Dev 2.651
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

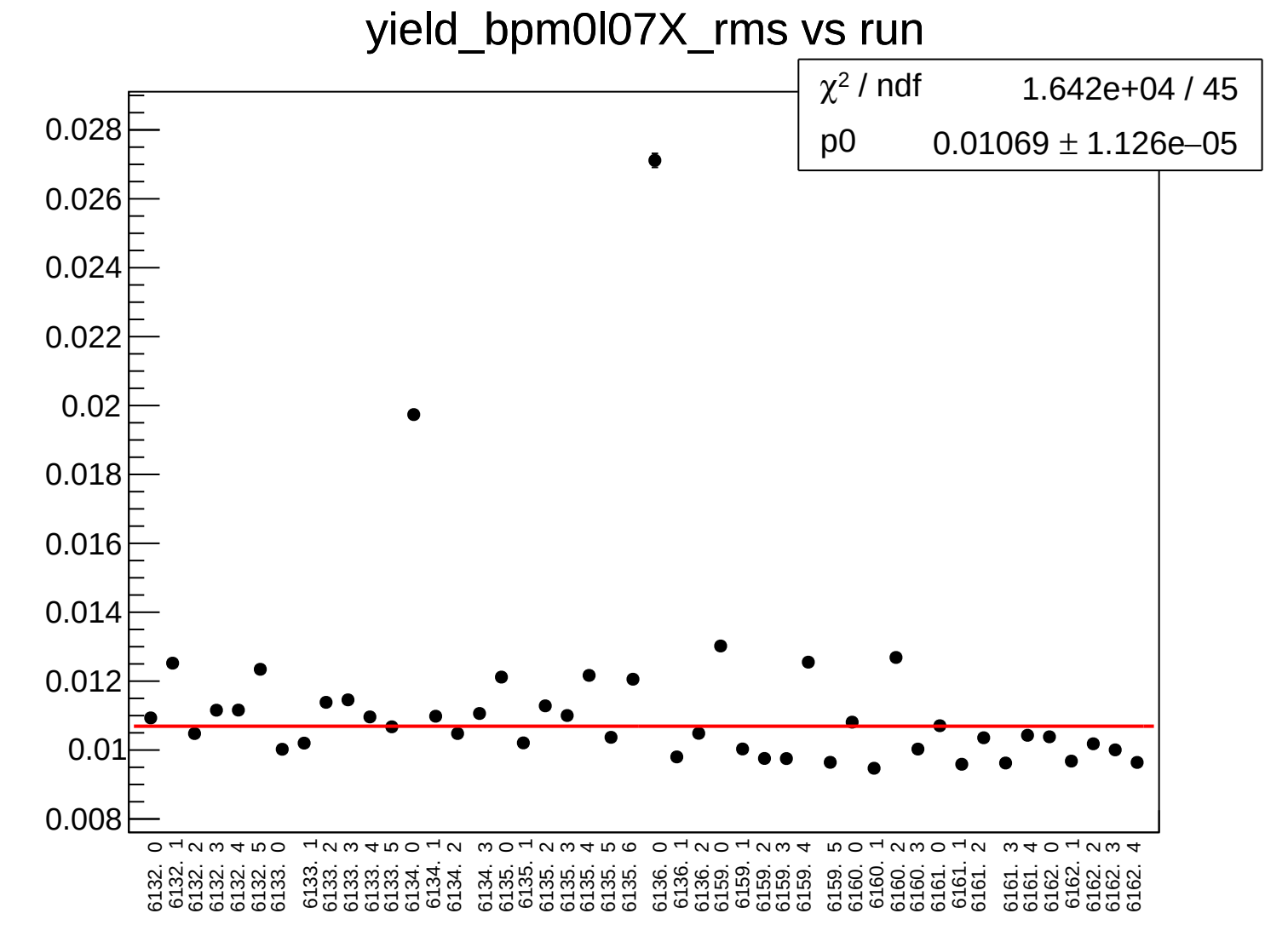

yield_bpm0l06X_rms vs run
χ² / ndf 2.14e+04 / 45
p0 0.006147 ± 6.491e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

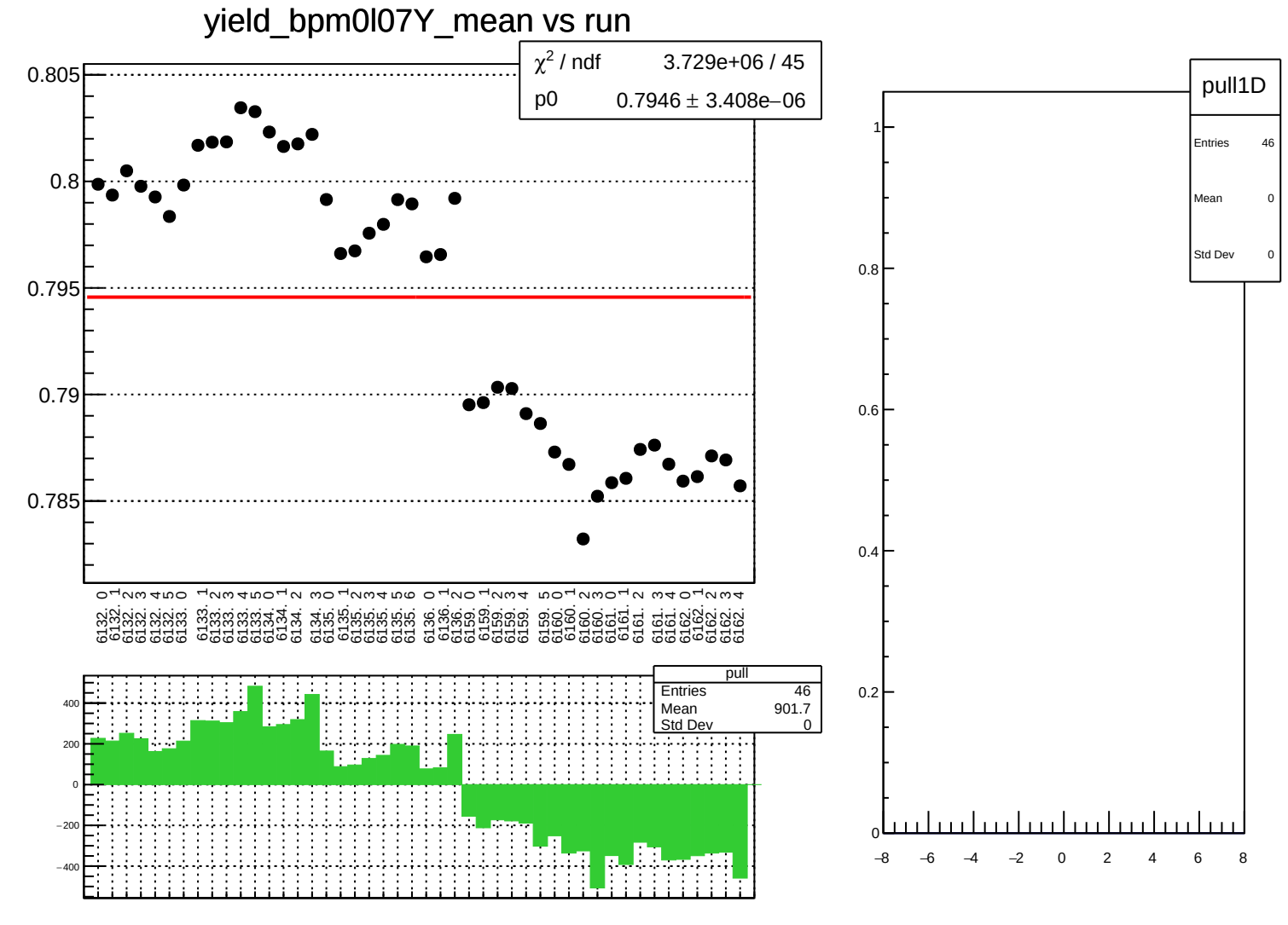

yield_bpm0l06Y_mean vs run
χ² / ndf 2.341e+07 / 45
p0 −1.4 ± 3.82e−06
−1.37
−1.38
−1.39
−1.4
−1.41
−1.42
−1.43
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 237.9
Std Dev 0
1500
1000
500
0
−500
−1000
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

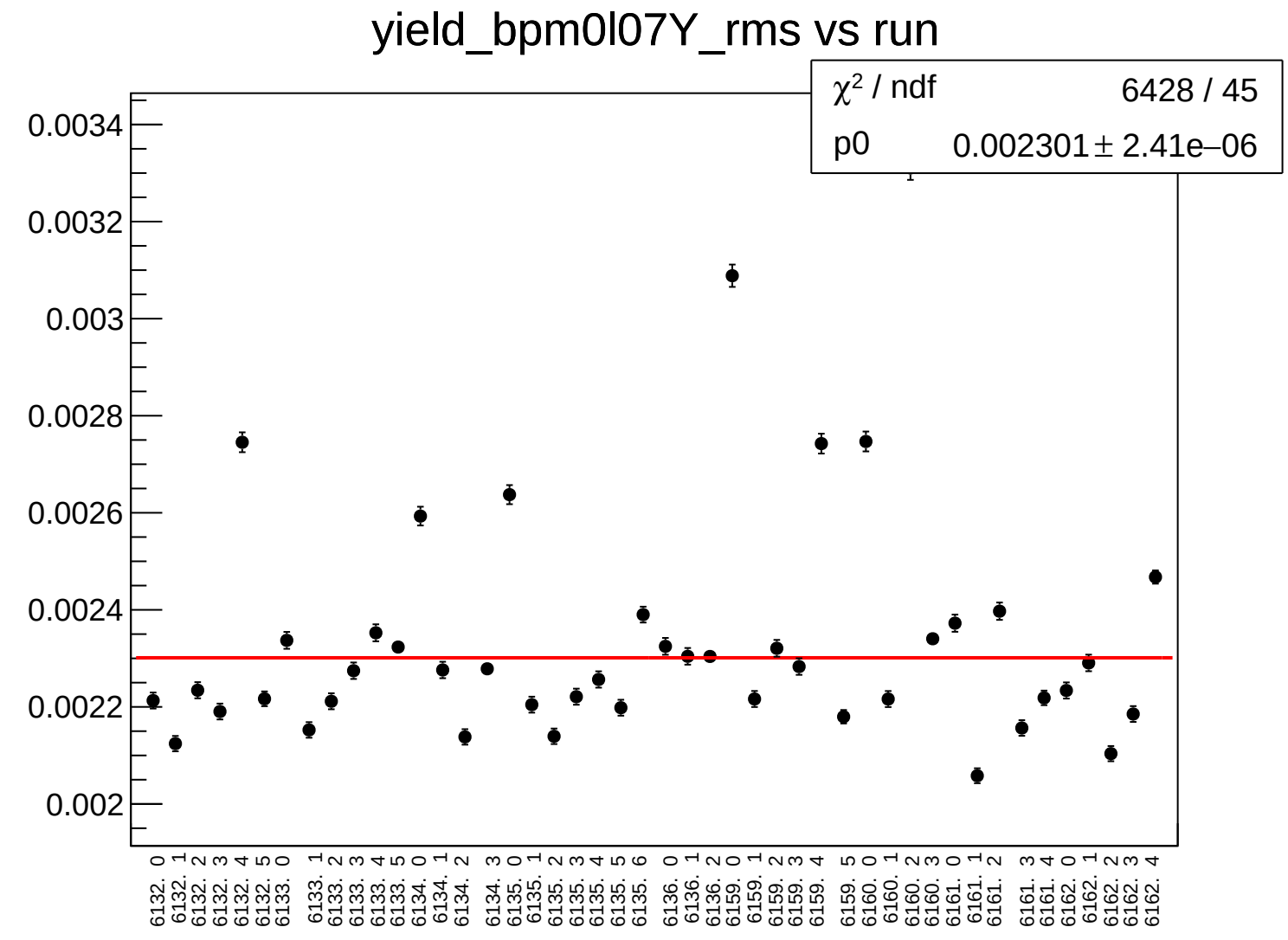

yield_bpm0l06Y_rms vs run
χ² / ndf 3.283e+04 / 45
p0 0.002542 ± 2.701e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

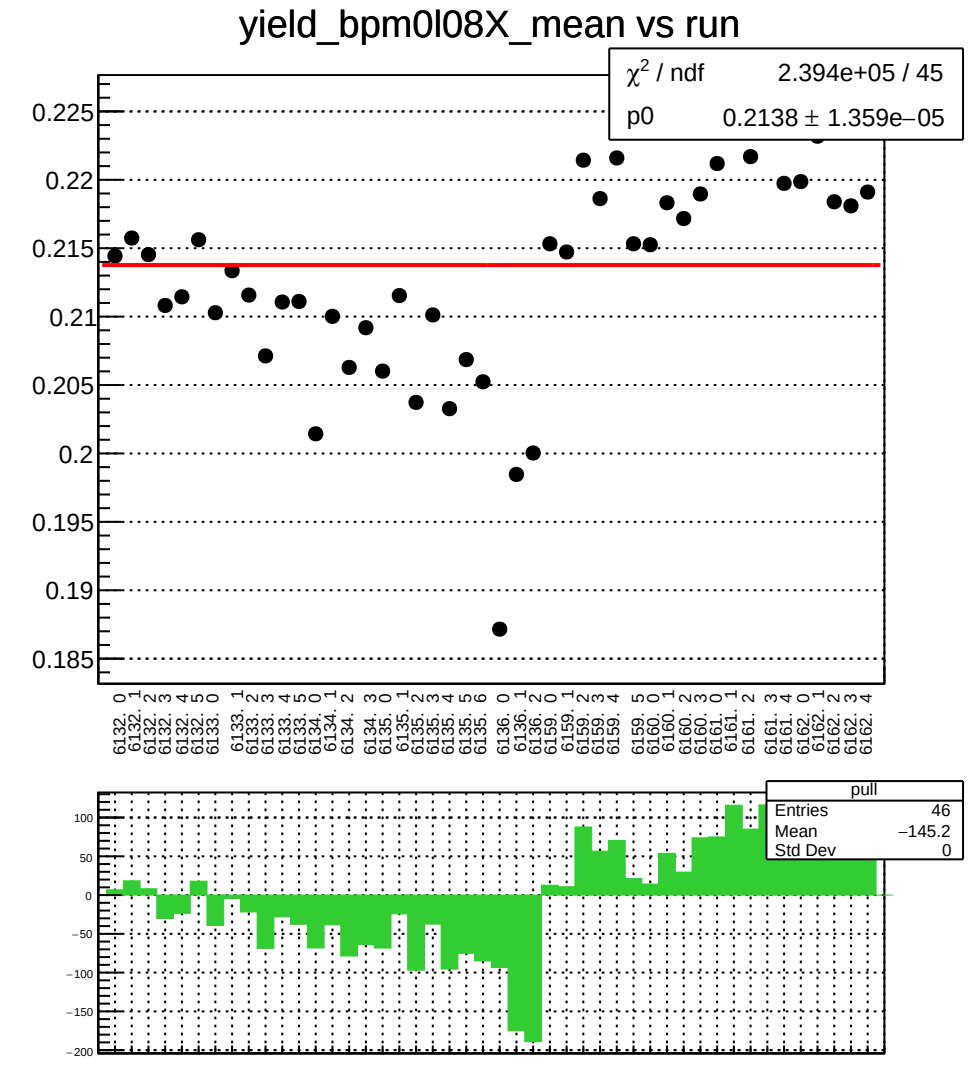

yield_bpm0l07X_mean vs run
χ² / ndf 3.587e+05 / 45
p0 −0.2351 ± 1.592e−05
−0.22
−0.23
−0.24
−0.25
−0.26
pull
Entries 46
Mean −218.5
Std Dev 0
150
100
50
0
−50
−100
−150
−200

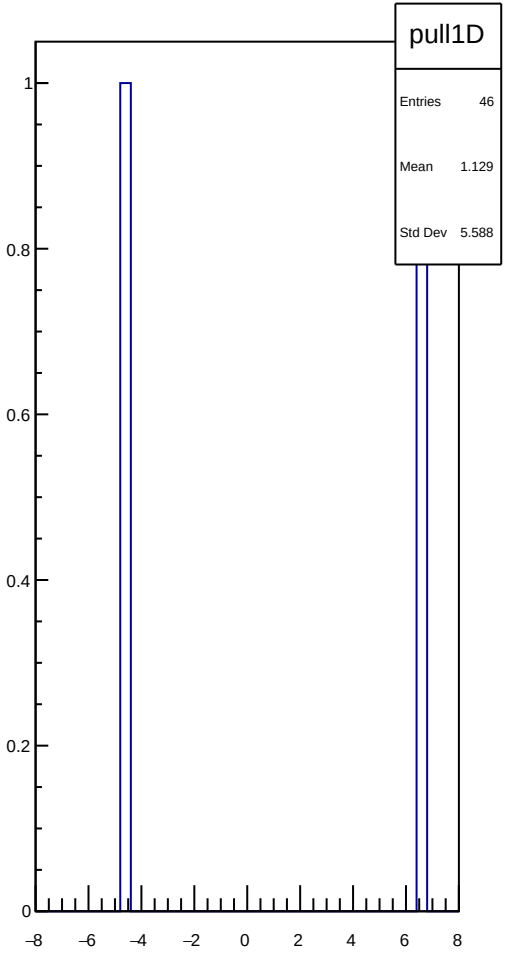

pull1D
Entries 46
Mean −0.3081
Std Dev 4.326
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

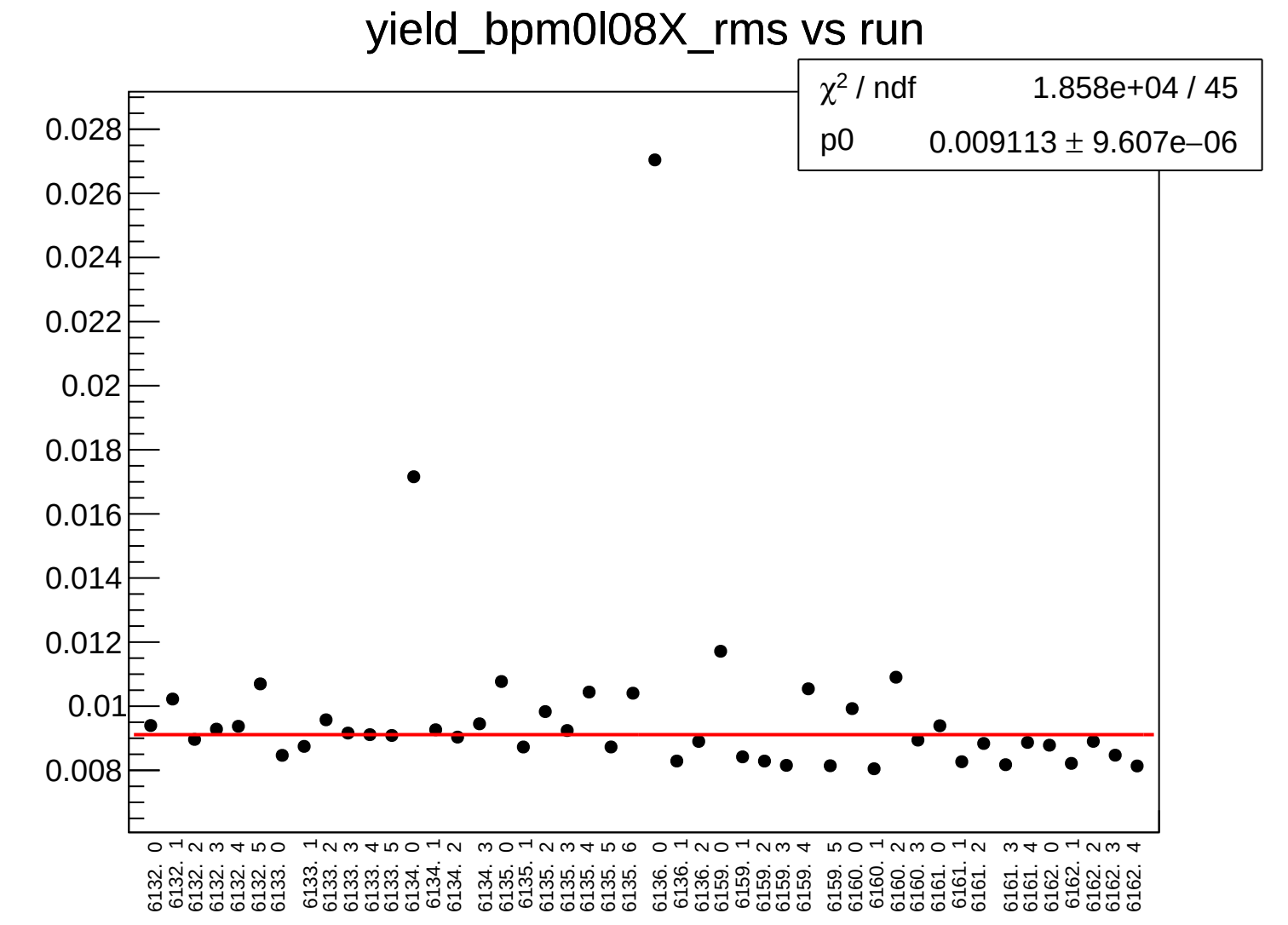

yield_bpm0l07X_rms vs run
χ² / ndf 1.642e+04 / 45
p0 0.01069 ± 1.126e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

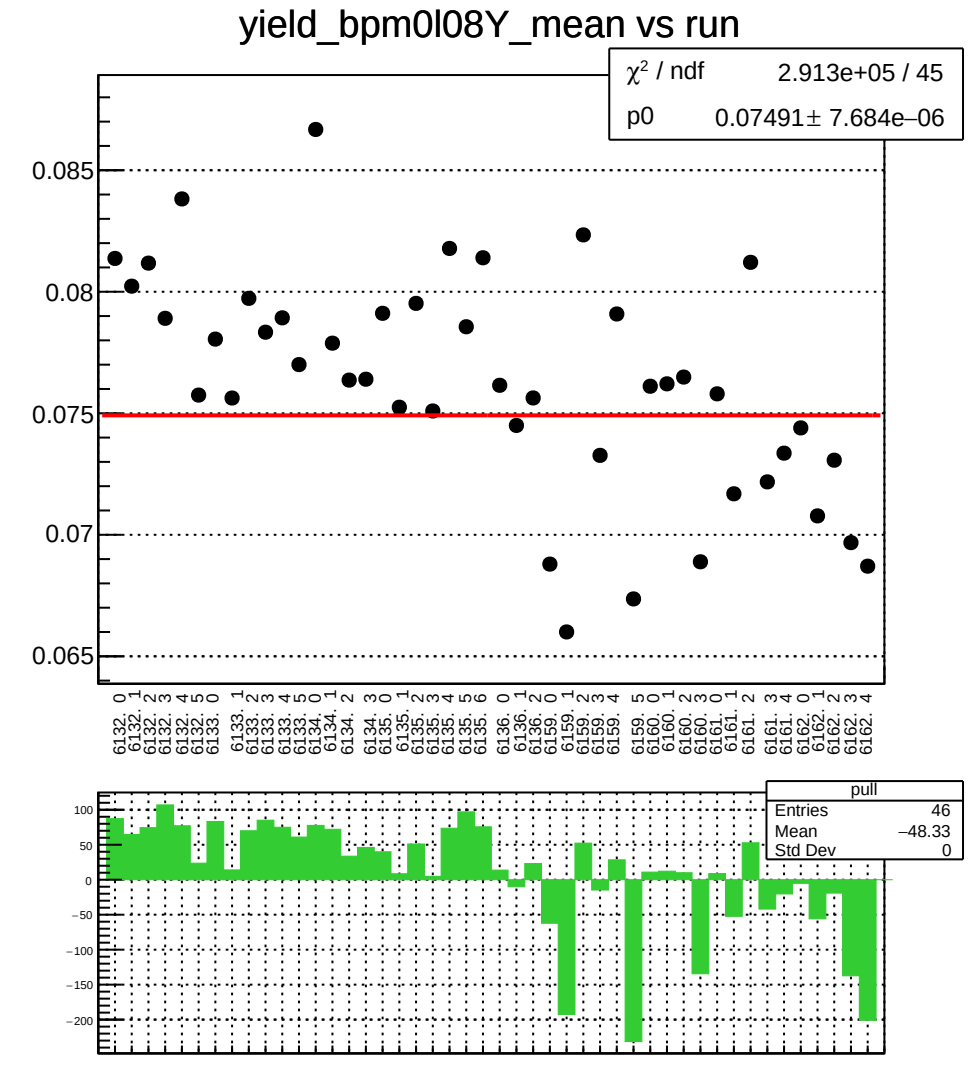

yield_bpm0l07Y_mean vs run
χ² / ndf 3.729e+06 / 45
p0 0.7946 ± 3.408e−06
0.805
0.8
0.795
0.79
0.785
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 901.7
Std Dev 0
400
200
0
−200
−400
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

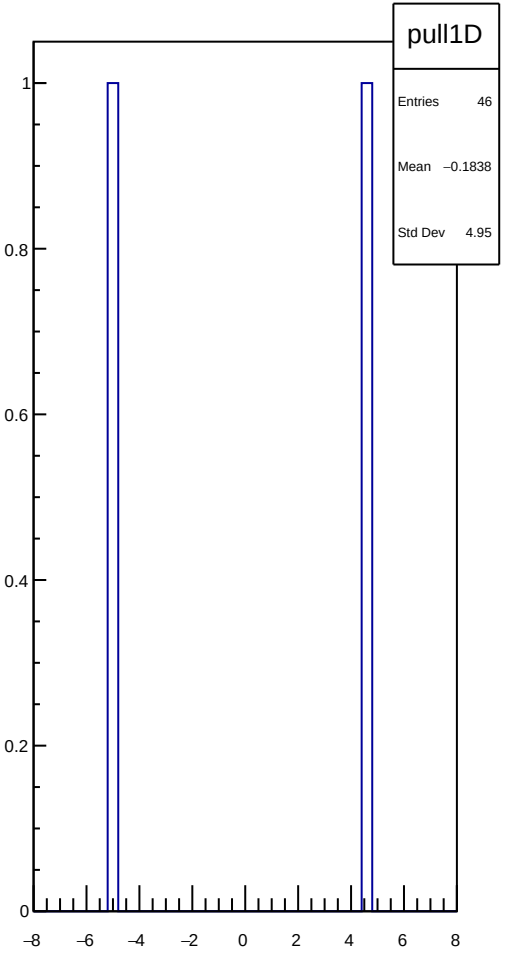

yield_bpm0l07Y_rms vs run
χ² / ndf 6428 / 45
p0 0.002301 ± 2.41e–06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

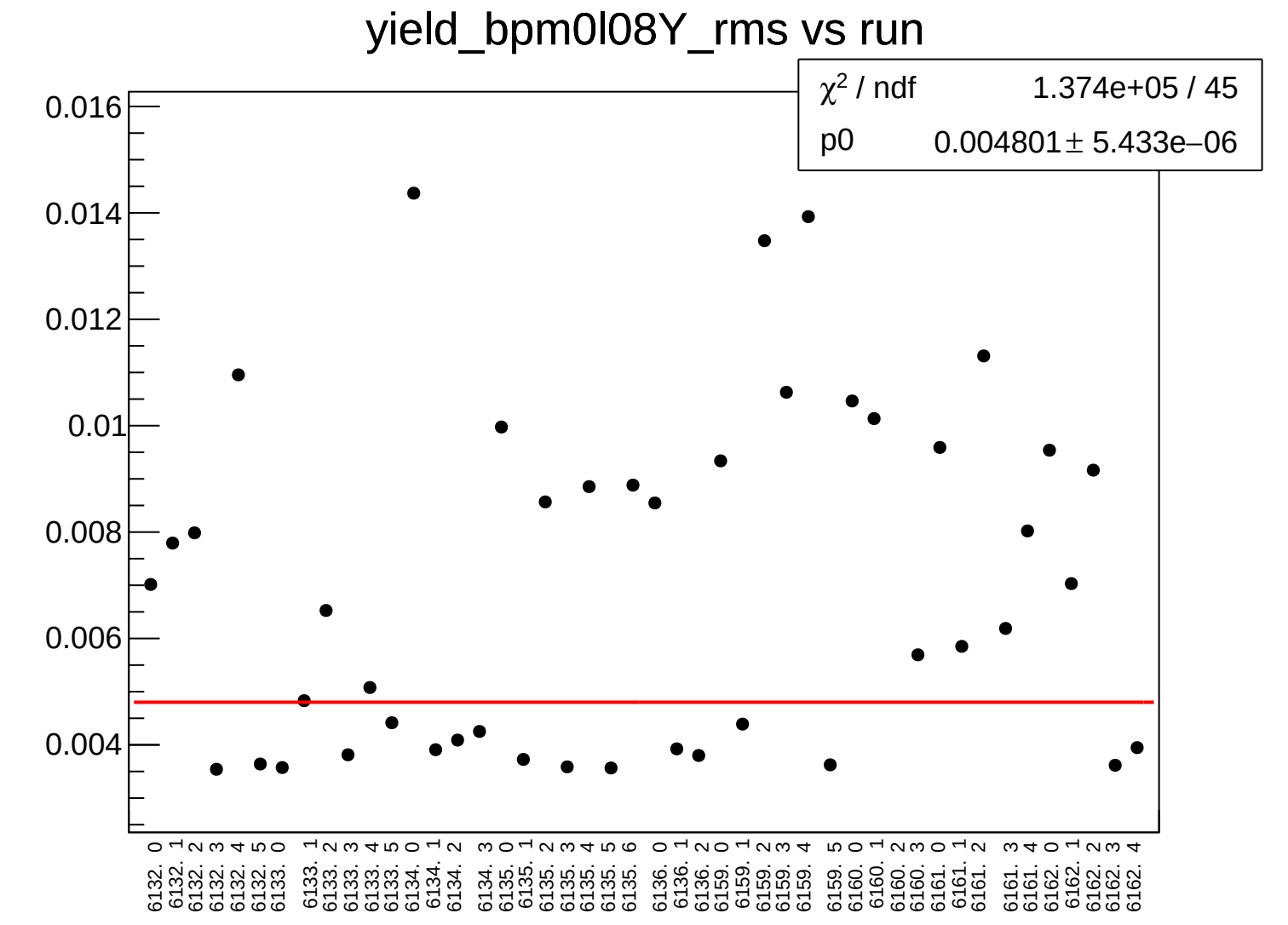

yield_bpm0l08X_mean vs run
χ² / ndf 2.394e+05 / 45
p0 0.2138 ± 1.359e−05
0.225
0.22
0.215
0.21
0.205
0.2
0.195
0.19
0.185
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −145.2
Std Dev 0
100
50
0
−50
−100
−150
−200

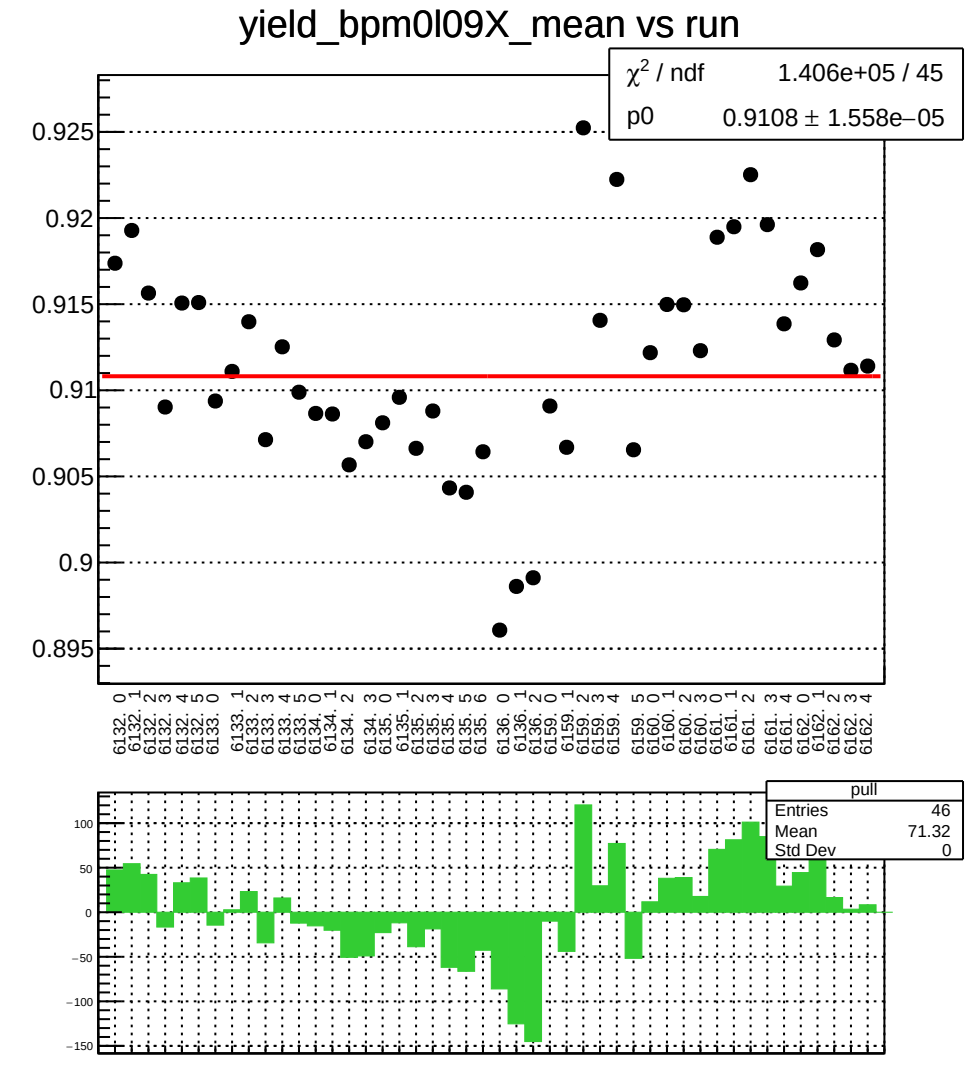

pull1D
Entries 46
Mean 1.129
Std Dev 5.588
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

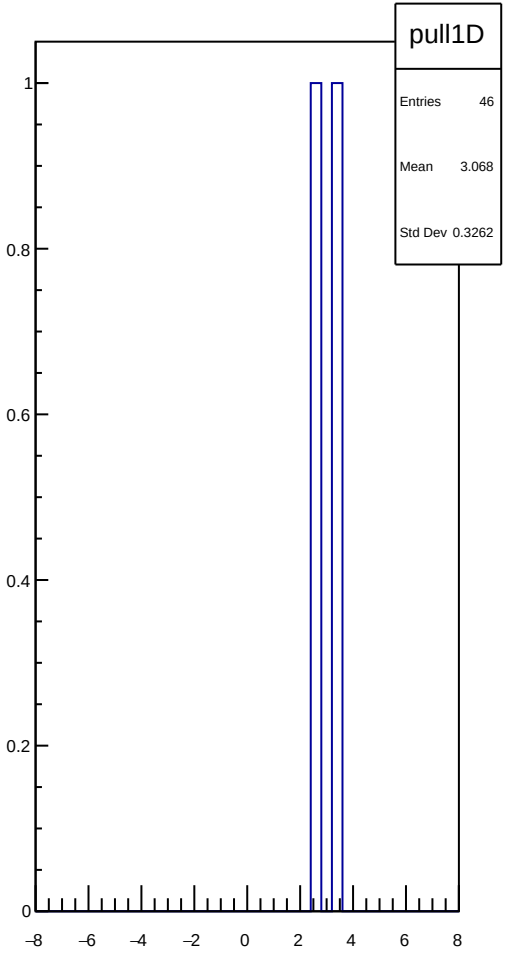

yield_bpm0l08X_rms vs run
χ² / ndf 1.858e+04 / 45
p0 0.009113 ± 9.607e−06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

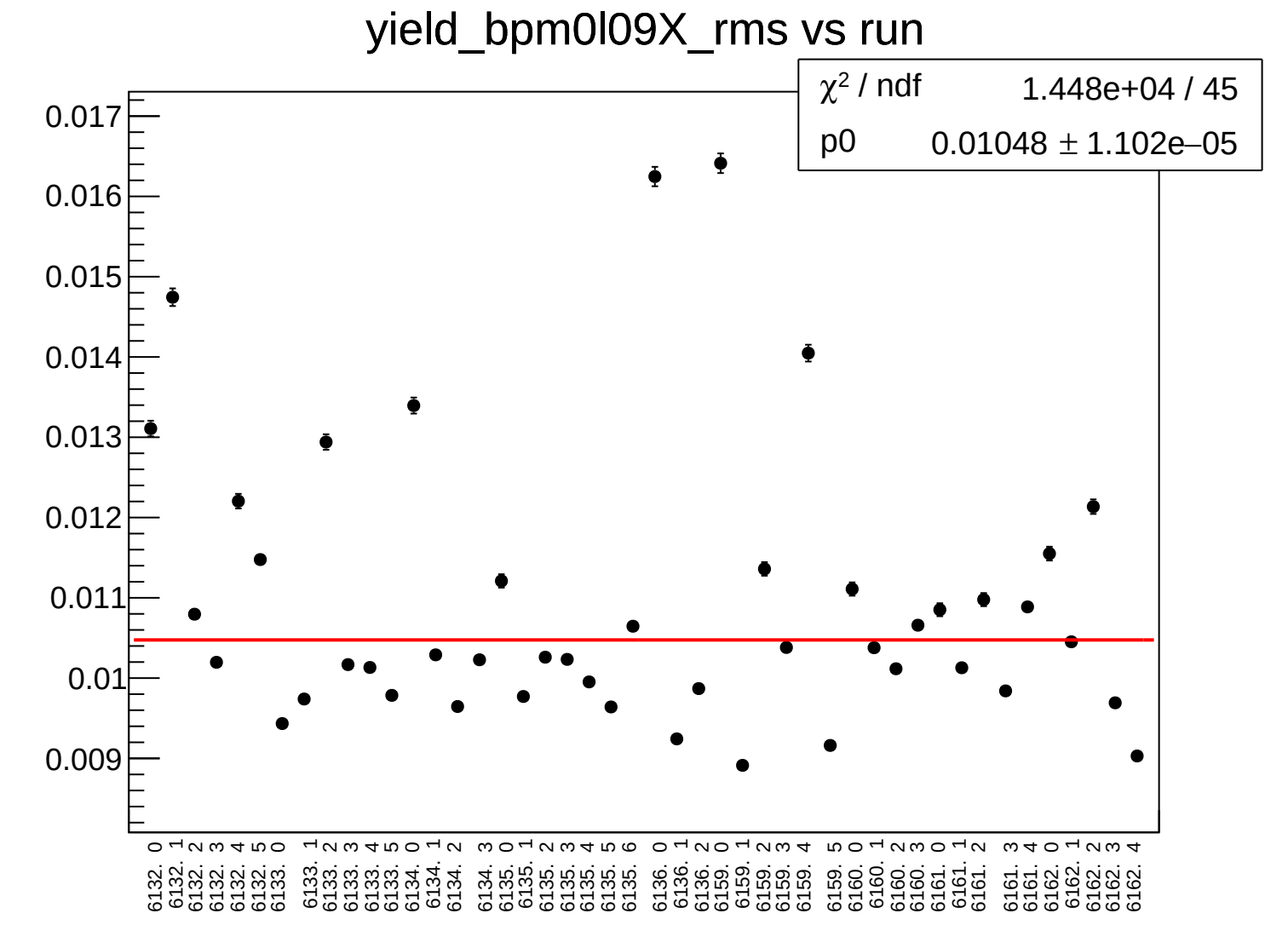

yield_bpm0l08Y_mean vs run
χ² / ndf 2.913e+05 / 45
p0 0.07491± 7.684e−06
0.085
0.08
0.075
0.07
0.065
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −48.33
Std Dev 0
100
50
0
−50
−100
−150
−200

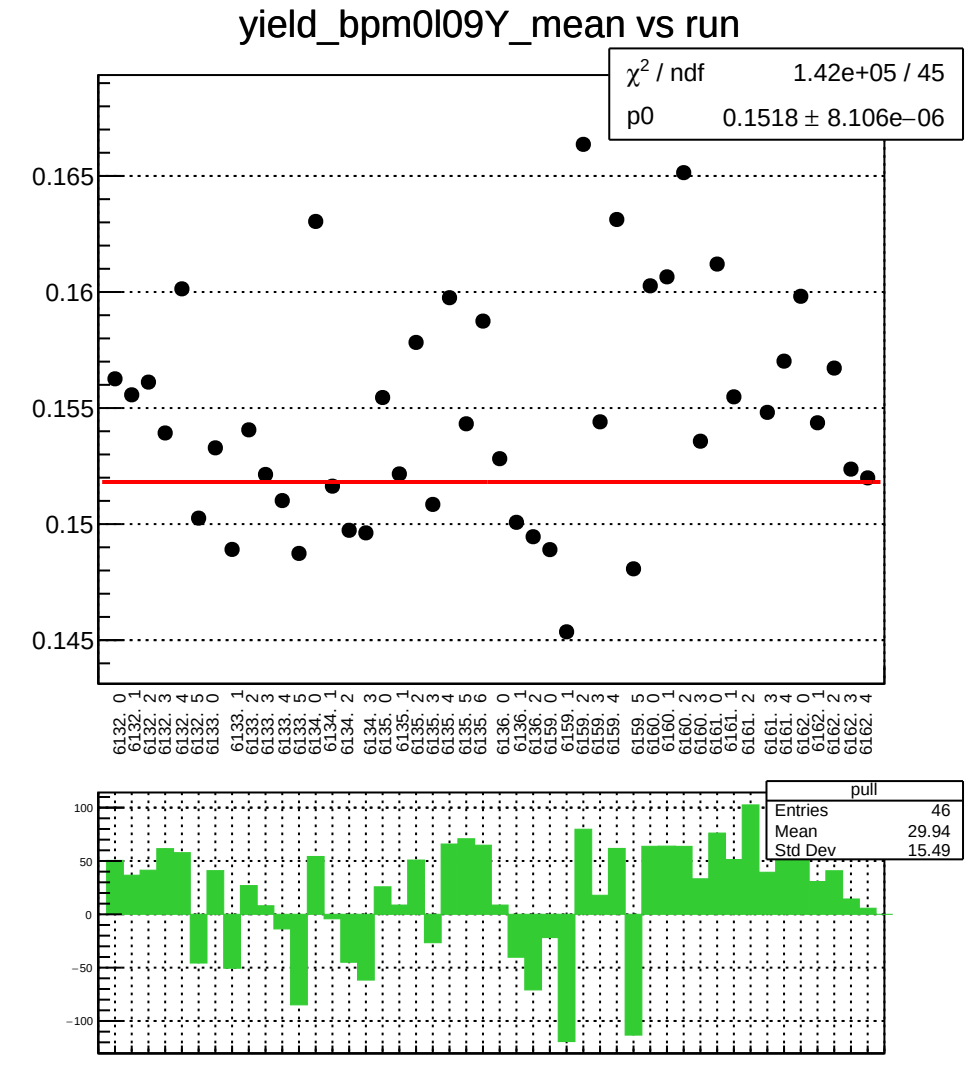

pull1D
Entries 46
Mean −0.1838
Std Dev 4.95
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

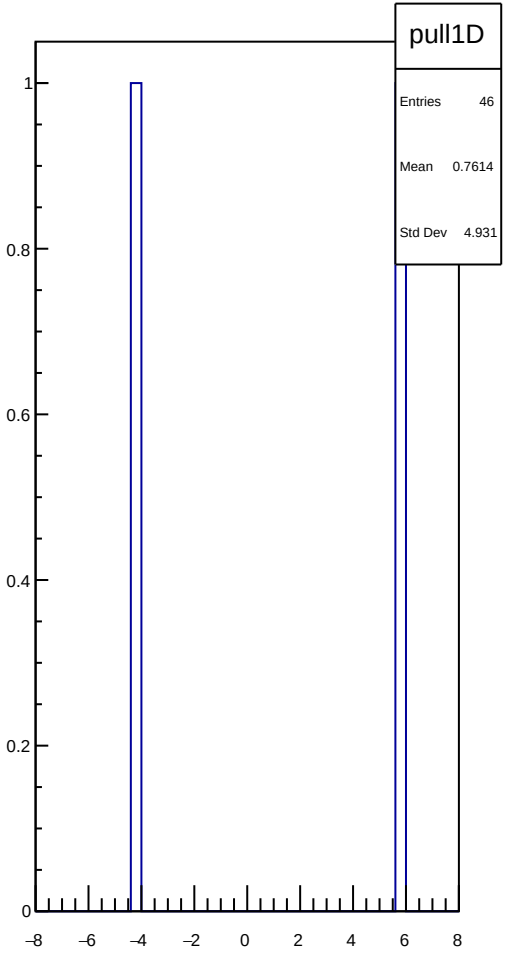

yield_bpm0l08Y_rms vs run
χ² / ndf 1.374e+05 / 45
p0 0.004801 ± 5.433e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

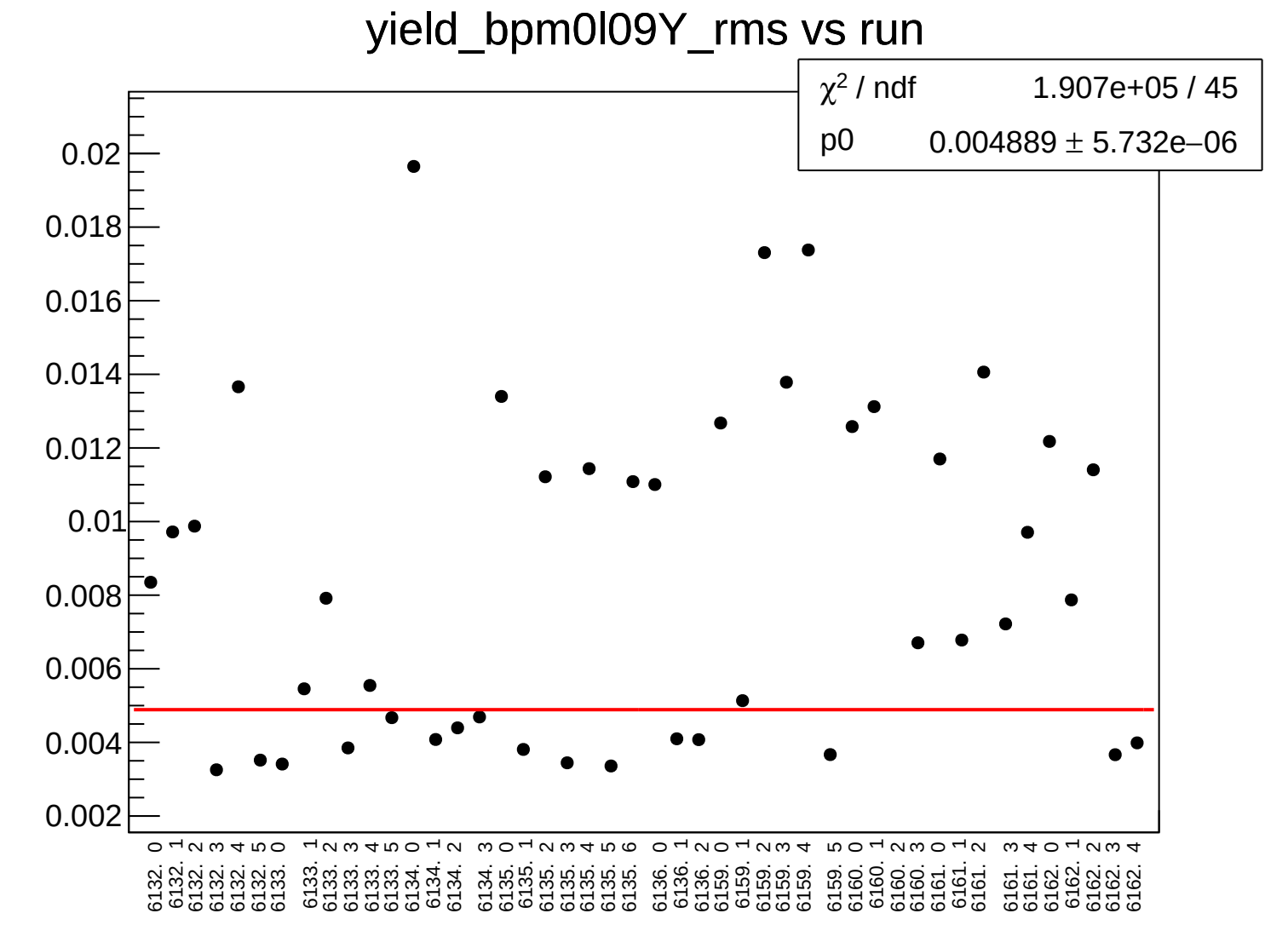

yield_bpm0l09X_mean vs run
χ² / ndf 1.406e+05 / 45
p0 0.9108 ± 1.558e−05
0.925
0.92
0.915
0.91
0.905
0.9
0.895
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 71.32
Std Dev 0
100
50
0
−50
−100
−150

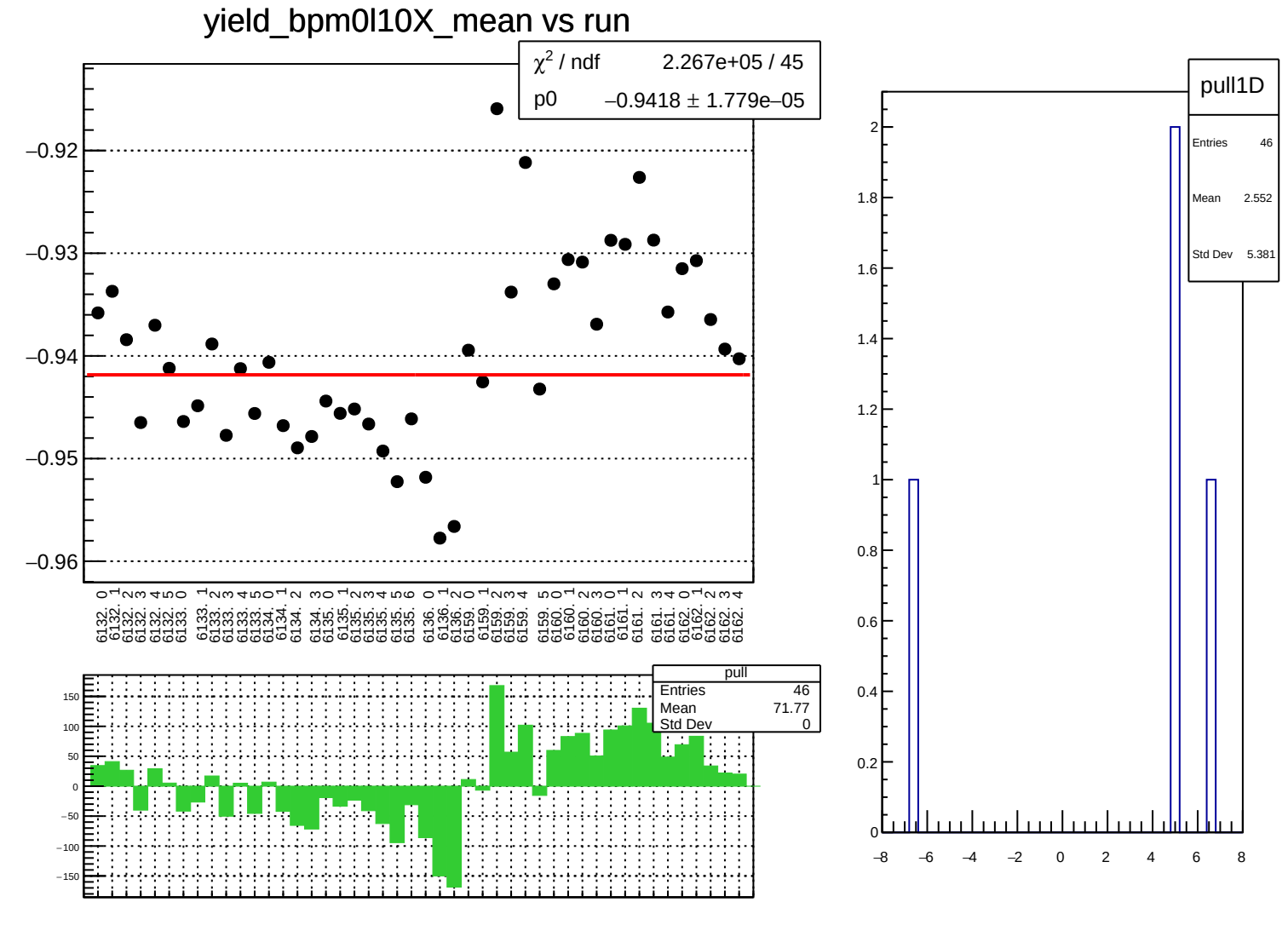

pull1D
Entries 46
Mean 3.068
Std Dev 0.3262
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

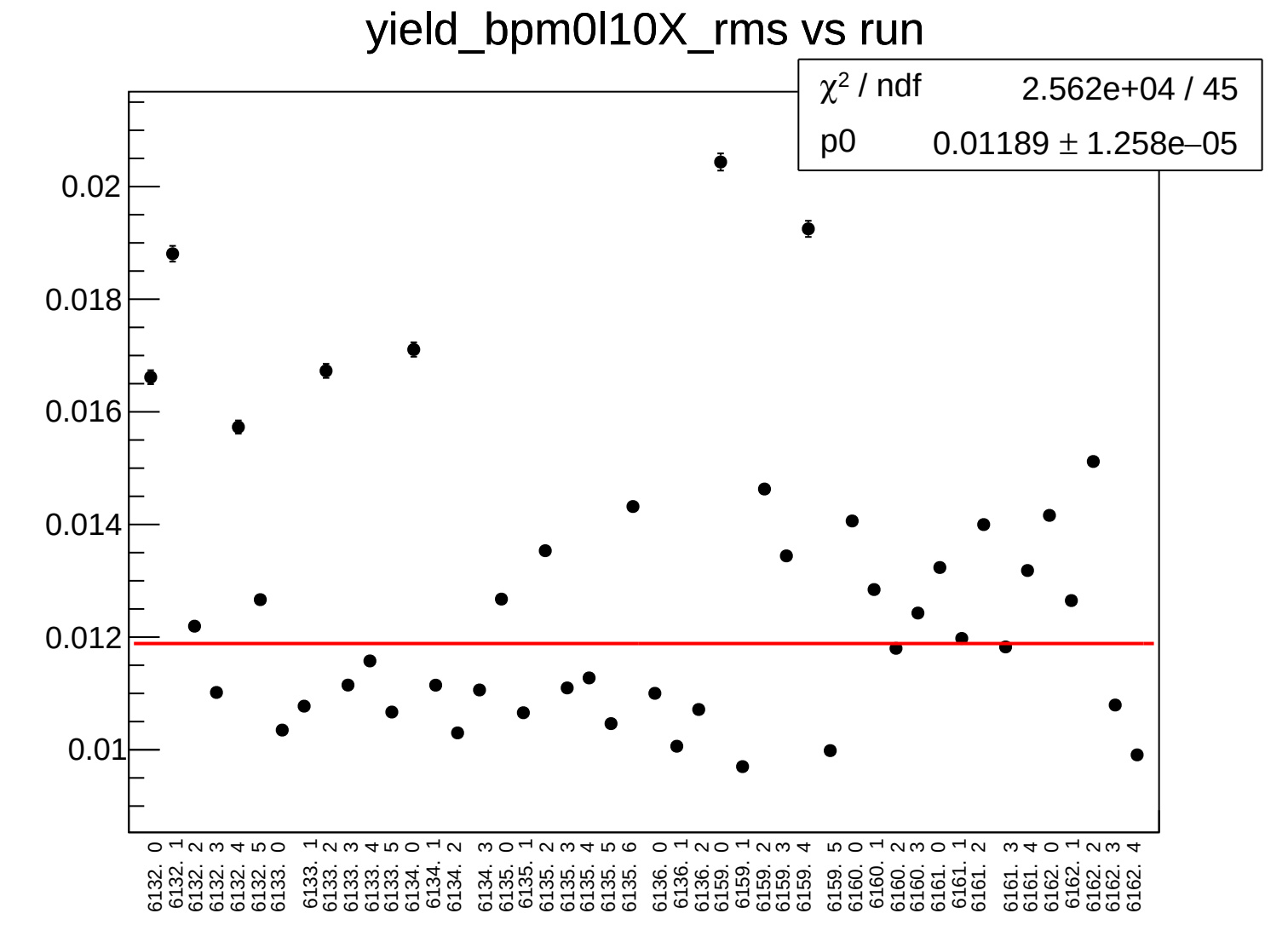

yield_bpm0l09X_rms vs run
χ² / ndf 1.448e+04 / 45
p0 0.01048 ± 1.102e–05
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

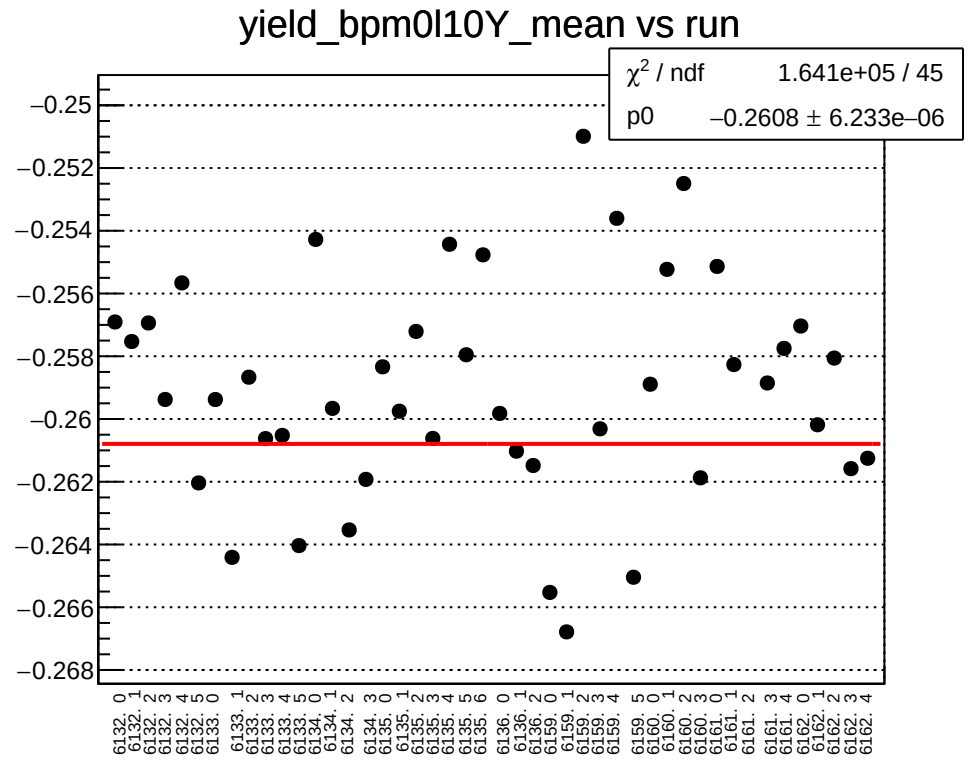

yield_bpm0l09Y_mean vs run
χ² / ndf 1.42e+05 / 45
p0 0.1518 ± 8.106e−06
0.165
0.16
0.155
0.15
0.145
pull
Entries 46
Mean 29.94
Std Dev 15.49
100
50
0
−50
−100

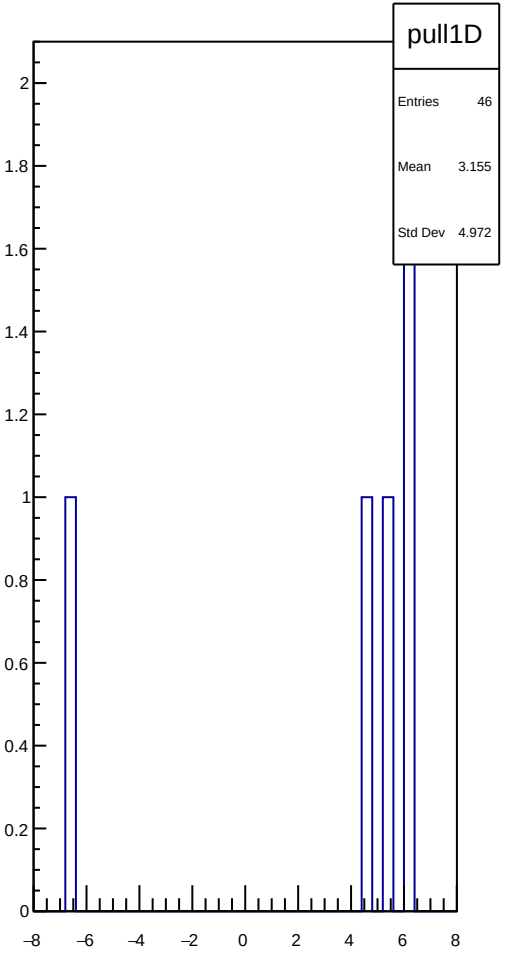

pull1D
Entries 46
Mean 0.7614
Std Dev 4.931
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

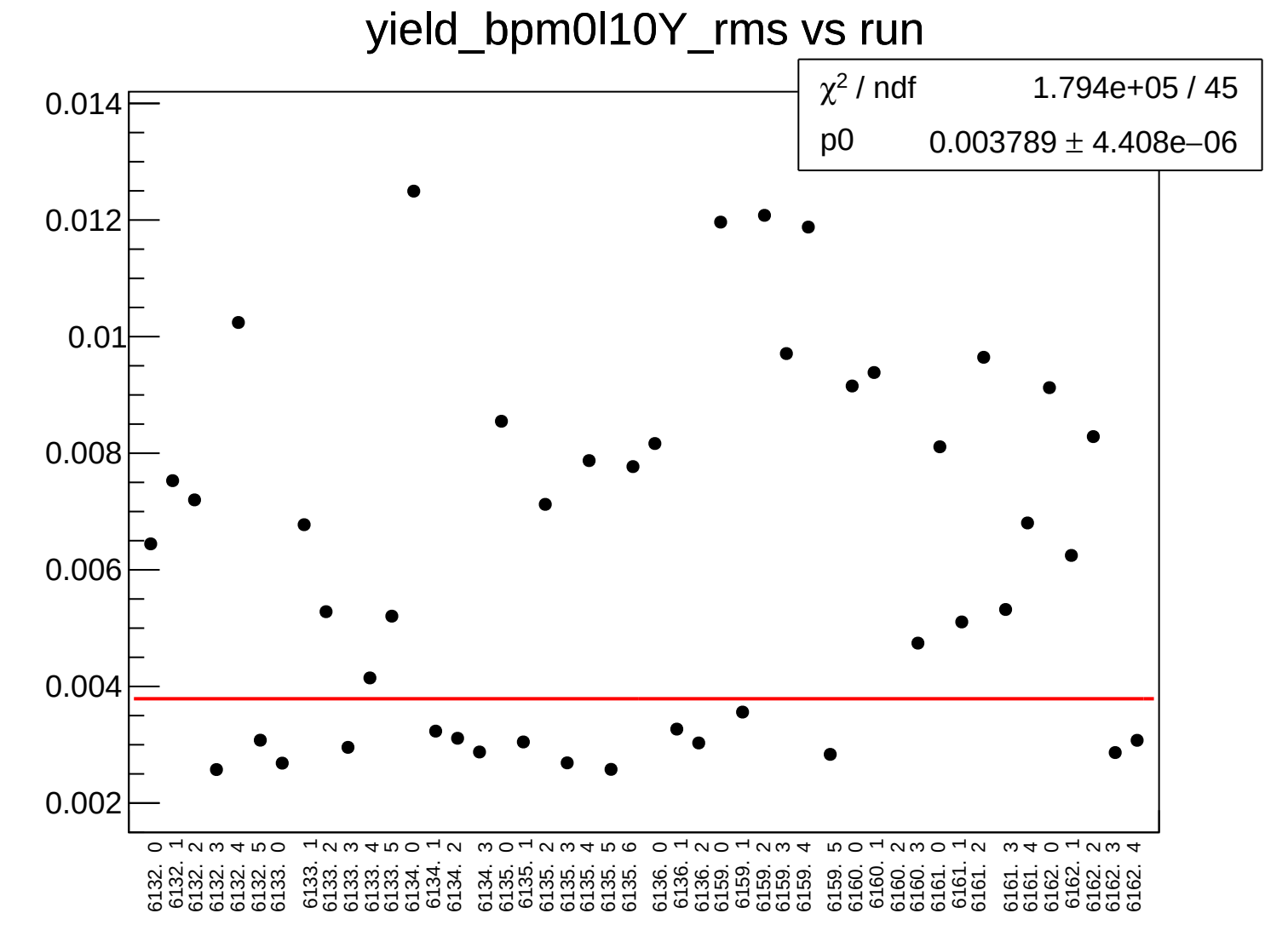

yield_bpm0l09Y_rms vs run
χ² / ndf 1.907e+05 / 45
p0 0.004889 ± 5.732e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

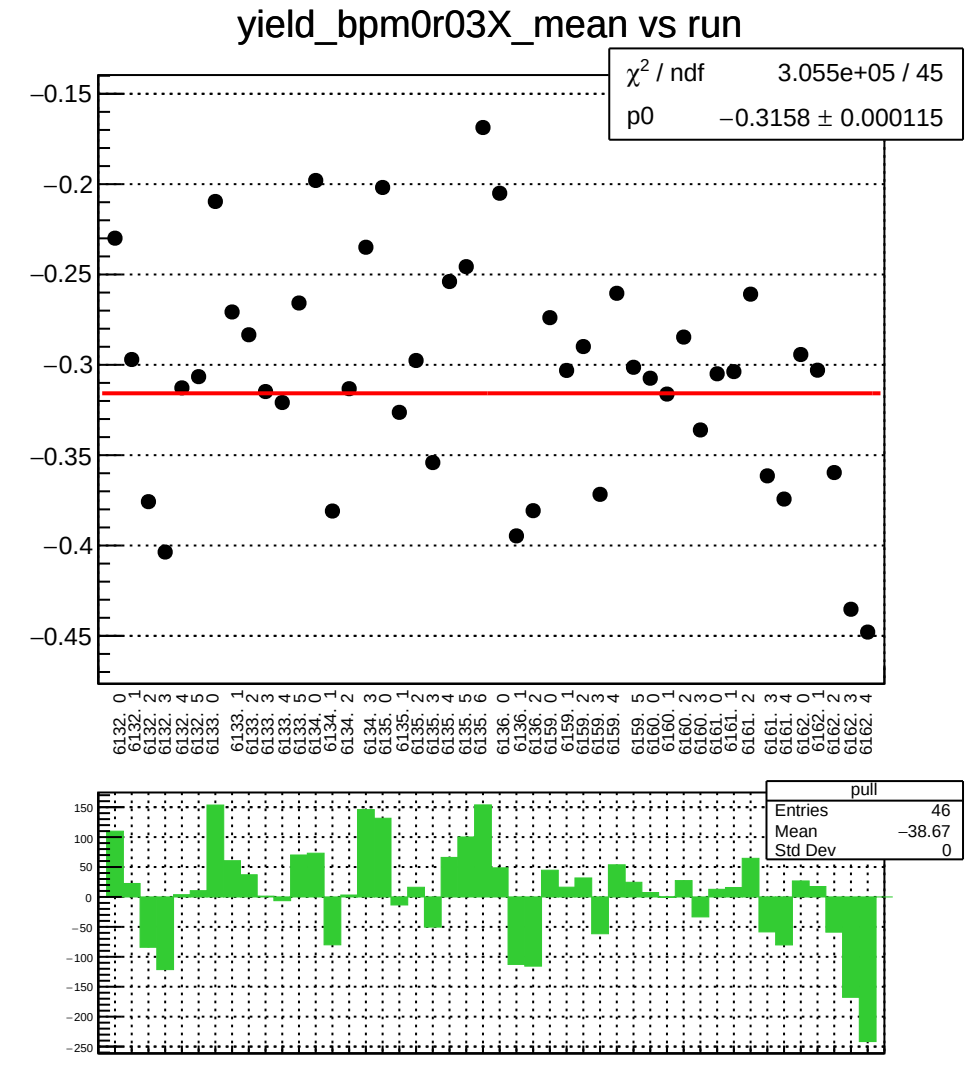

yield_bpm0l10X_mean vs run
χ² / ndf 2.267e+05 / 45
p0 −0.9418 ± 1.779e−05
−0.92
−0.93
−0.94
−0.95
−0.96
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 71.77
Std Dev 0
150
100
50
0
−50
−100
−150
pull1D
Entries 46
Mean 2.552
Std Dev 5.381
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

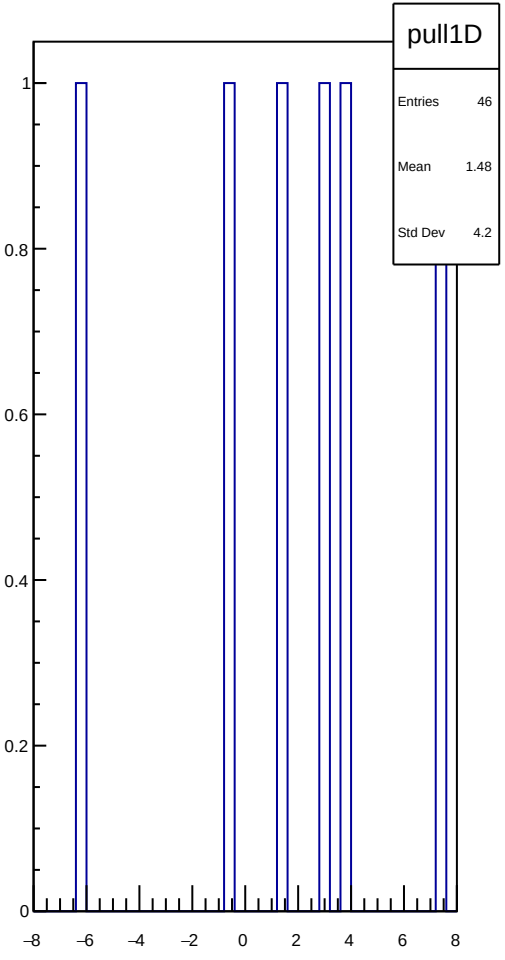

yield_bpm0l10X_rms vs run
χ² / ndf 2.562e+04 / 45
p0 0.01189 ± 1.258e–05
0.02
0.018
0.016
0.014
0.012
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

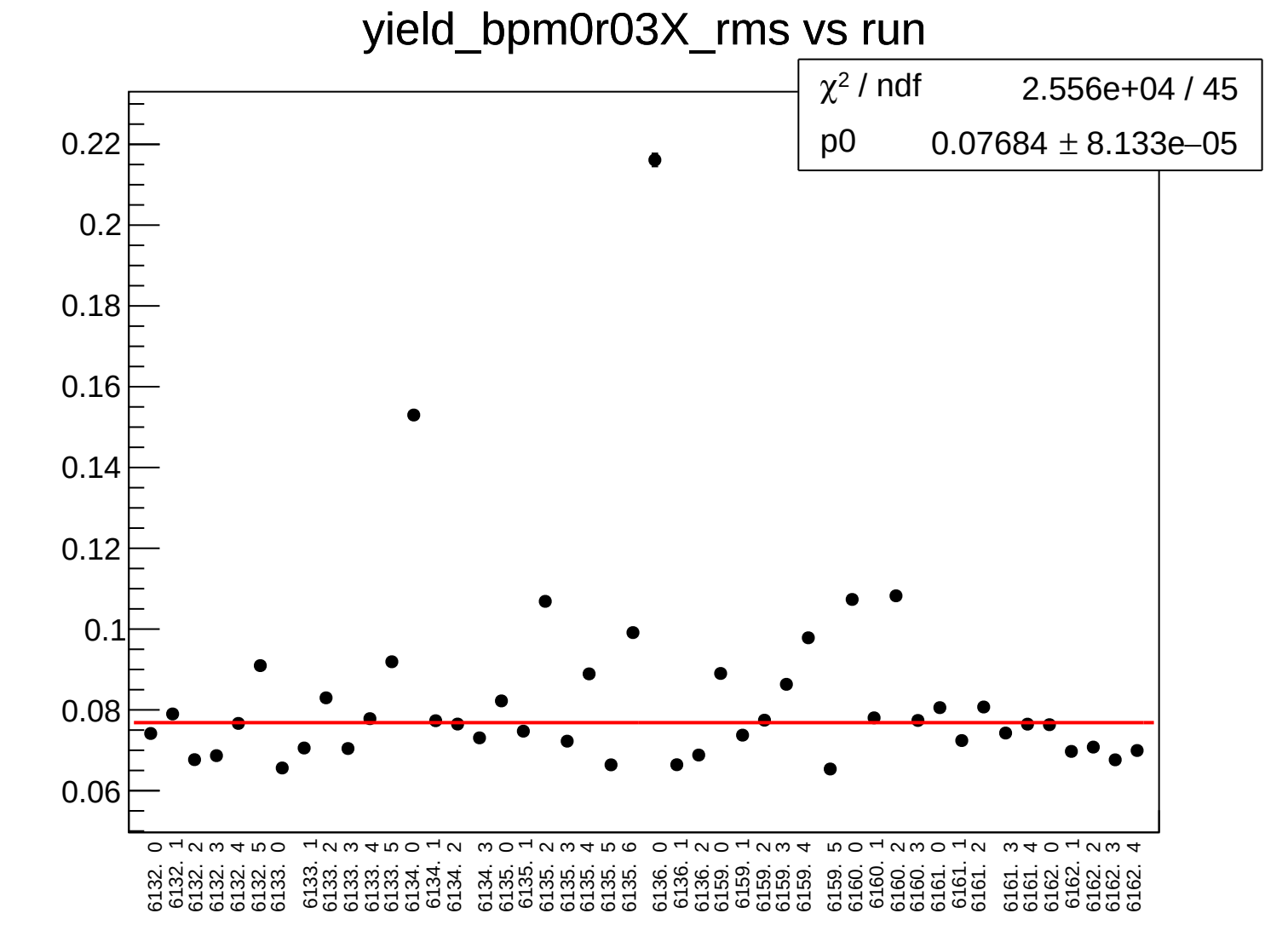

yield_bpm0l10Y_mean vs run
χ² / ndf 1.641e+05 / 45
p0 −0.2608 ± 6.233e−06
−0.25
−0.252
−0.254
−0.256
−0.258
−0.26
−0.262
−0.264
−0.266
−0.268
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 22.69
Std Dev 16.01
100
50
0
−50
−100
−150

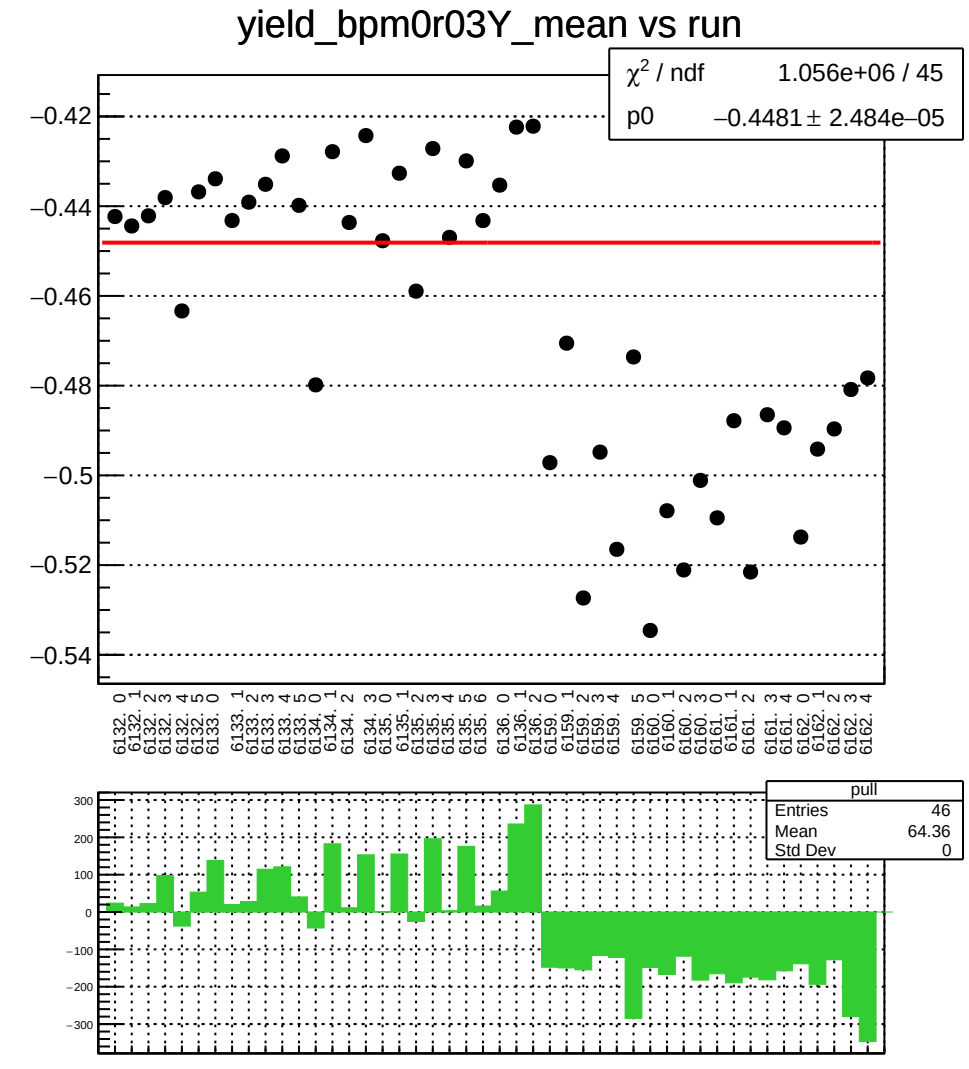

pull1D
Entries 46
Mean 3.155
Std Dev 4.972
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

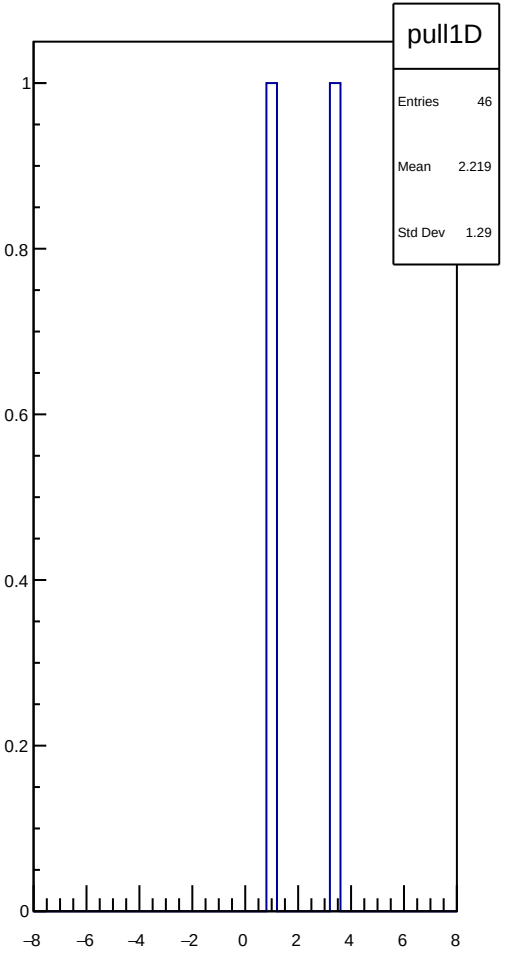

yield_bpm0l10Y_rms vs run
χ² / ndf 1.794e+05 / 45
p0 0.003789 ± 4.408e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

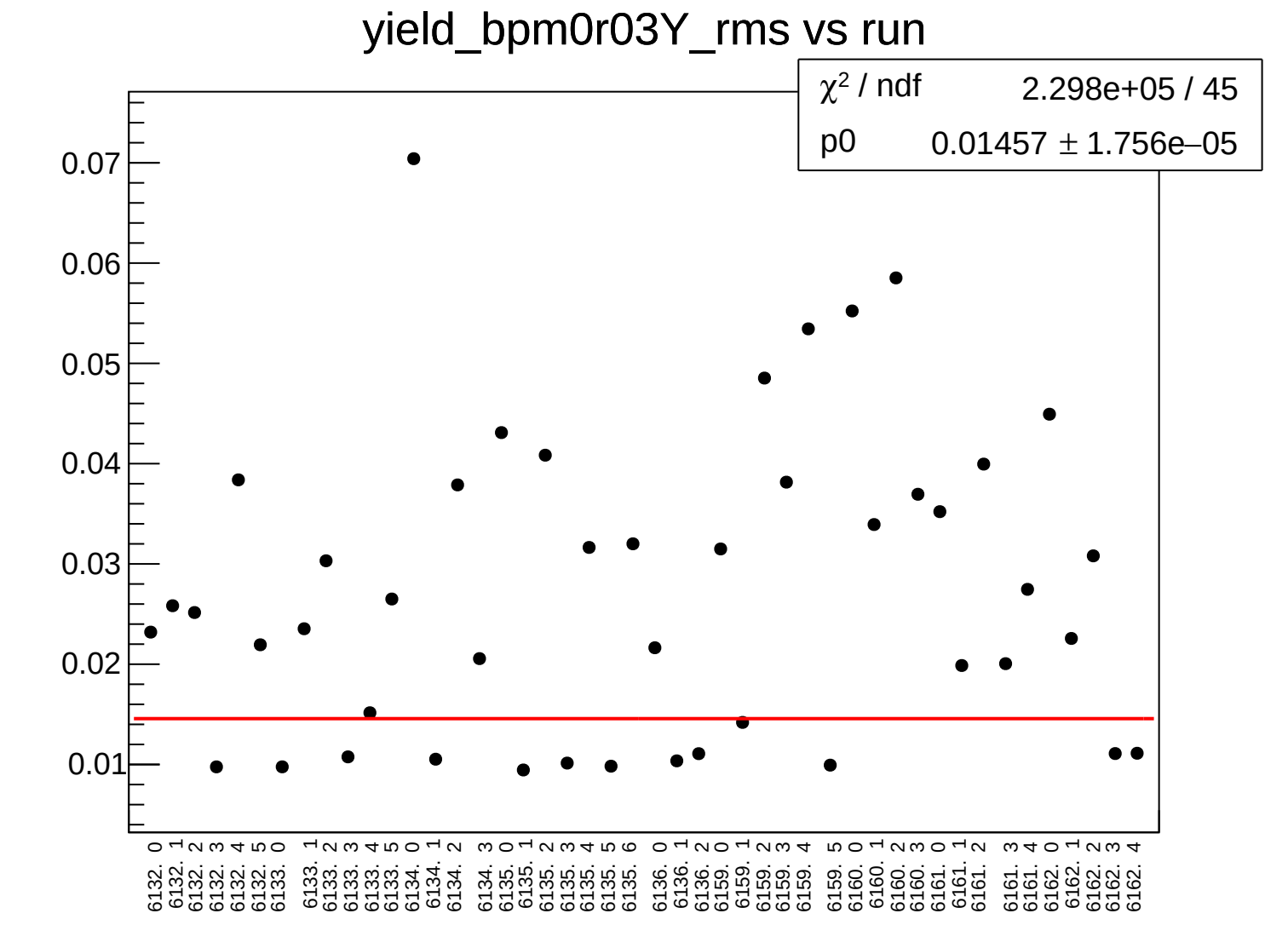

yield_bpm0r03X_mean vs run
χ² / ndf 3.055e+05 / 45
p0 −0.3158 ± 0.000115
pull
Entries 46
Mean −38.67
Std Dev 0

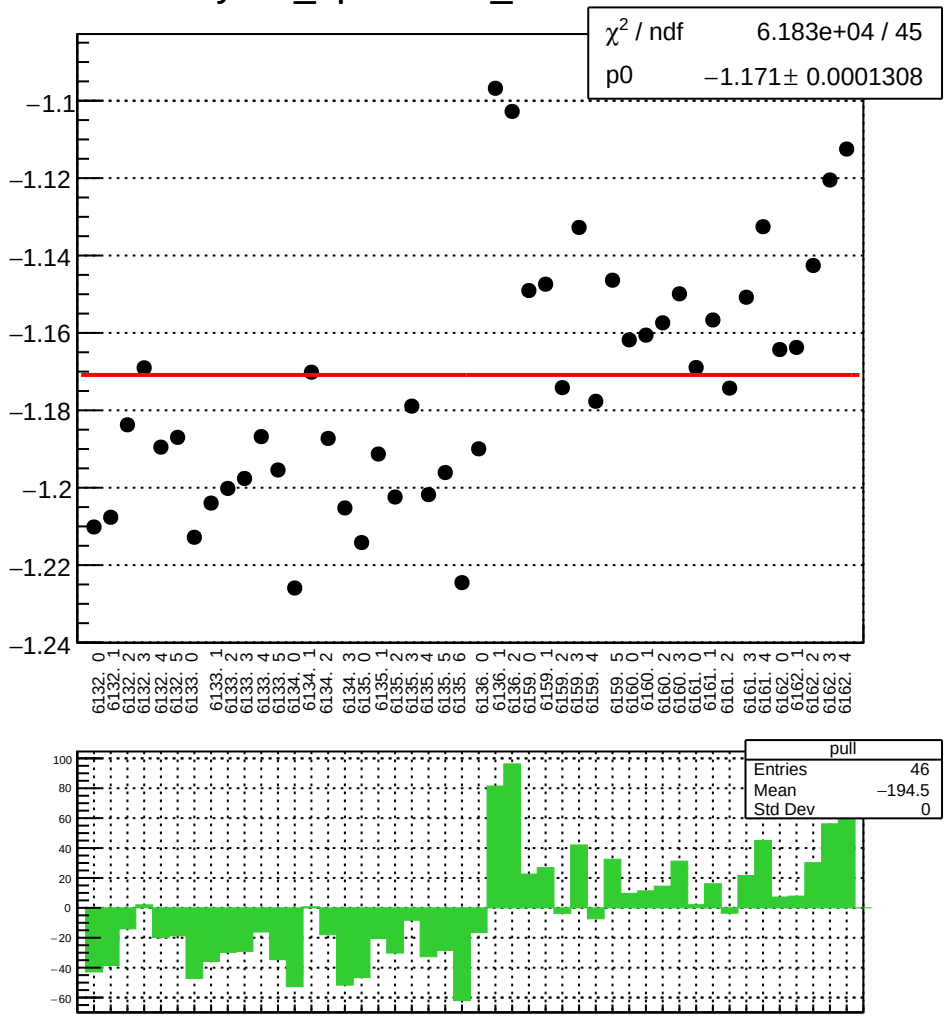

pull1D
Entries 46
Mean 1.48
Std Dev 4.2

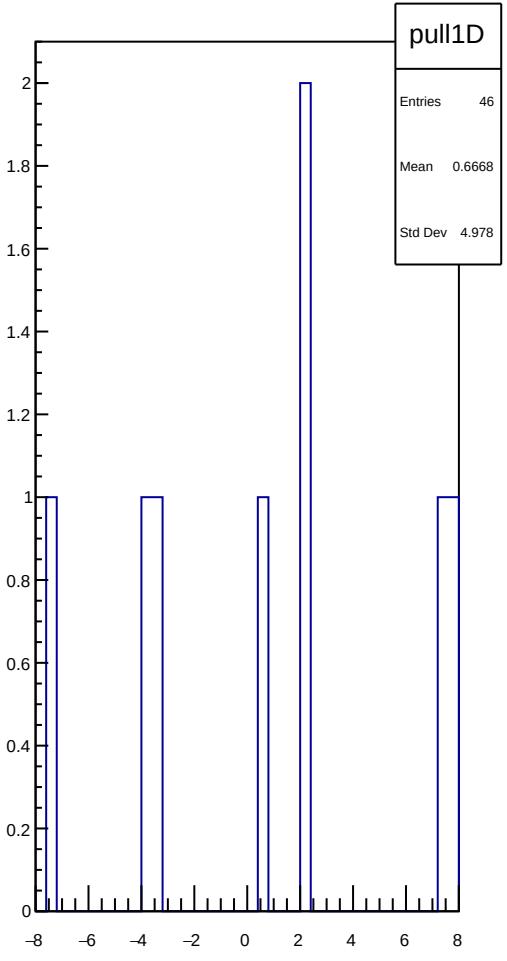

yield_bpm0r03X_rms vs run
χ² / ndf 2.556e+04 / 45
p0 0.07684 ± 8.133e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

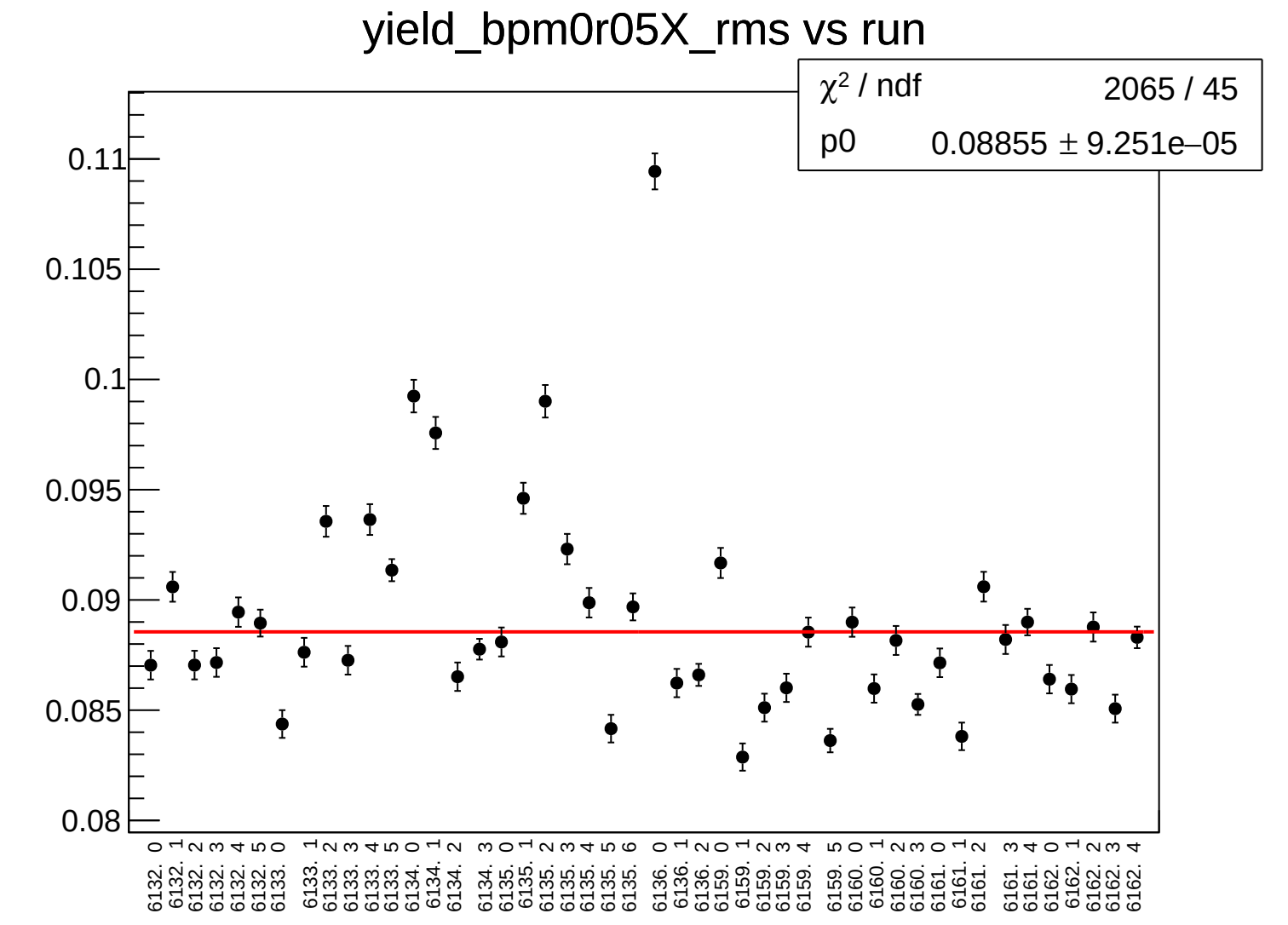

yield_bpm0r03Y_mean vs run
χ² / ndf 1.056e+06 / 45
p0 −0.4481 ± 2.484e−05
−0.42
−0.44
−0.46
−0.48
−0.5
−0.52
−0.54
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 64.36
Std Dev 0
300
200
100
0
−100
−200
−300

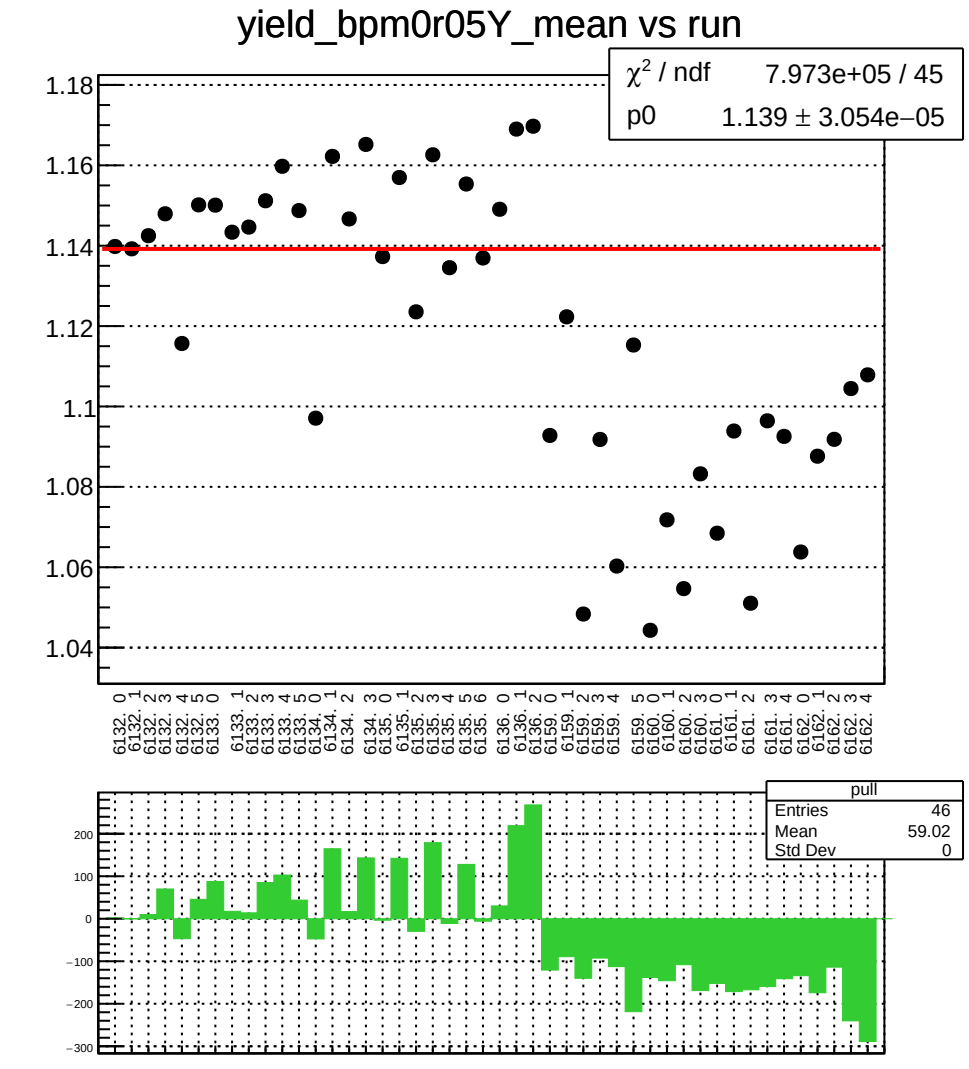

pull1D
Entries 46
Mean 2.219
Std Dev 1.29
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

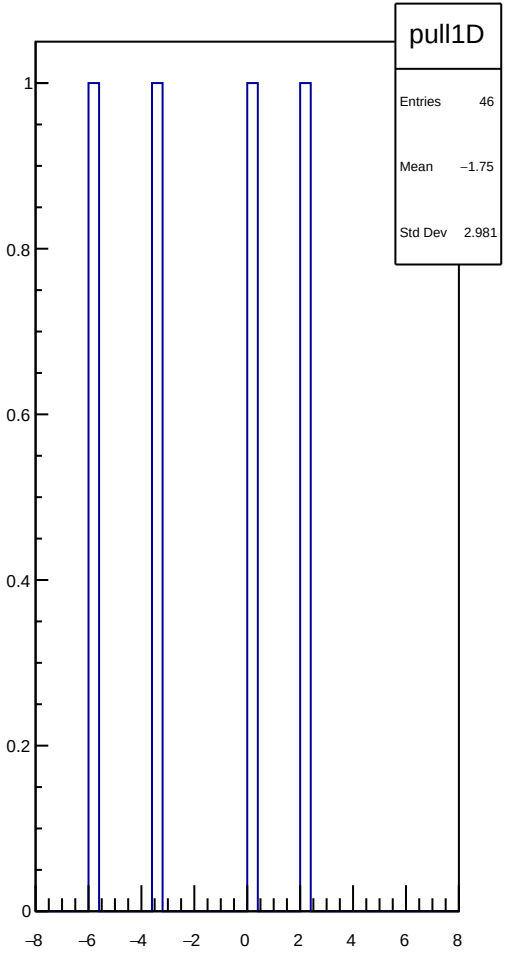

yield_bpm0r03Y_rms vs run
χ² / ndf 2.298e+05 / 45
p0 0.01457 ± 1.756e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

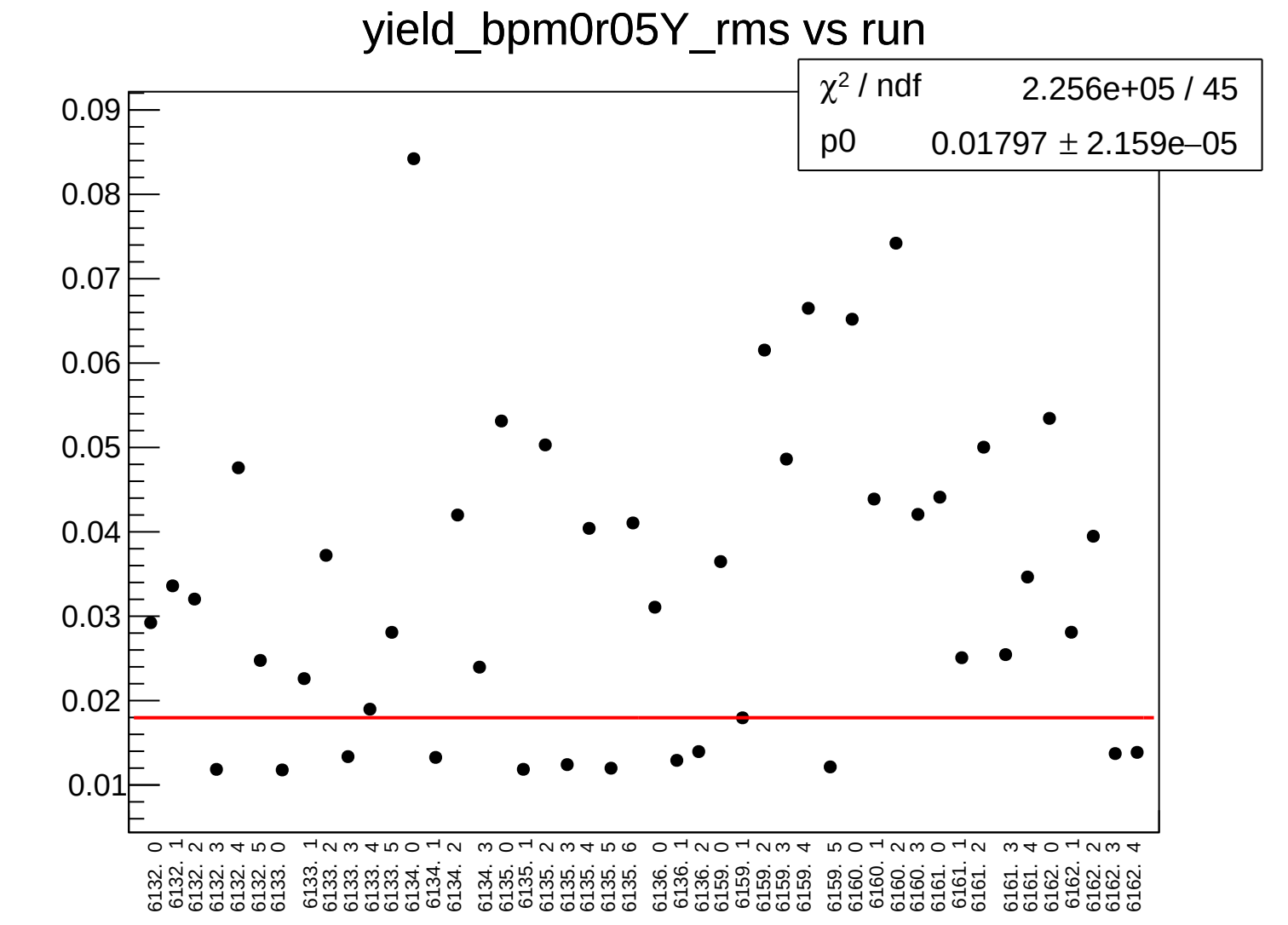

yield_bpm0r05X_mean vs run
χ² / ndf 6.183e+04 / 45
p0 −1.171± 0.0001308
pull
Entries 46
Mean −194.5
Std Dev 0

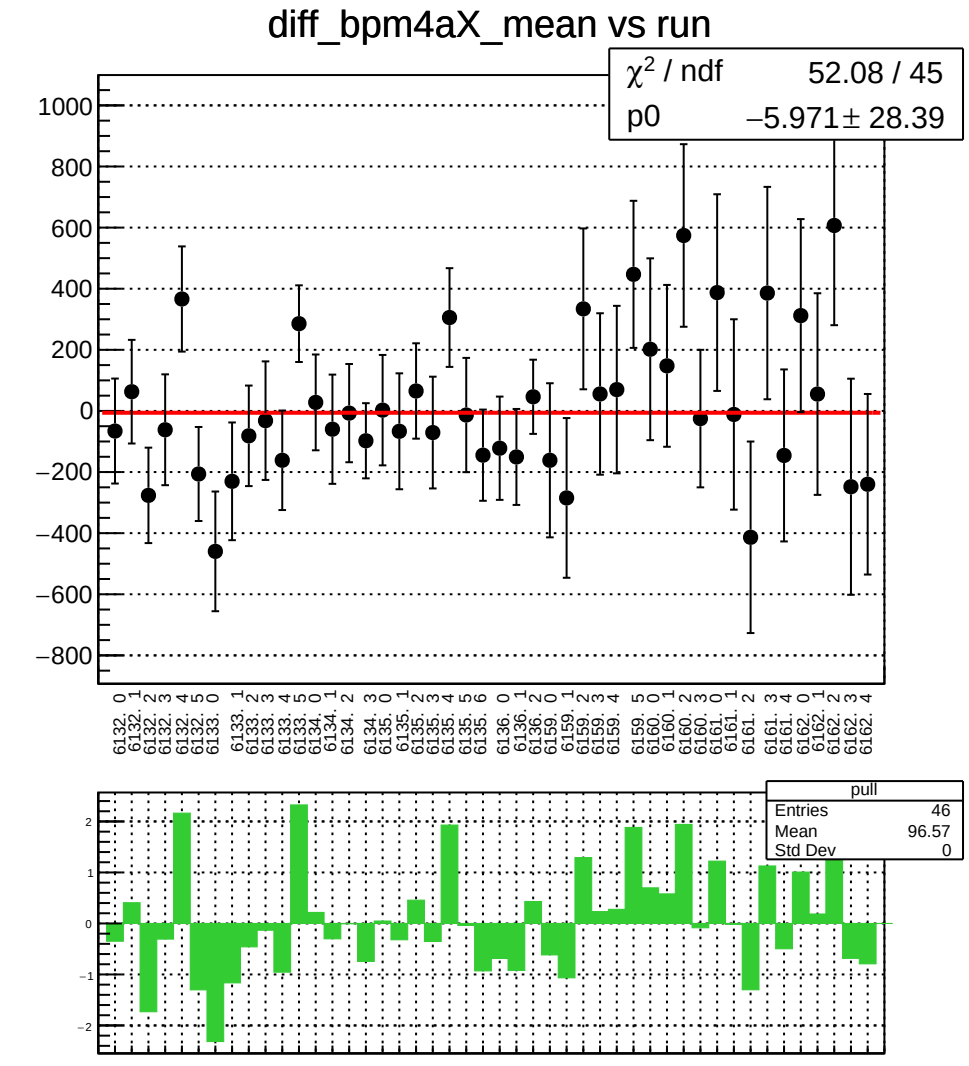

pull1D
Entries 46
Mean 0.6668
Std Dev 4.978

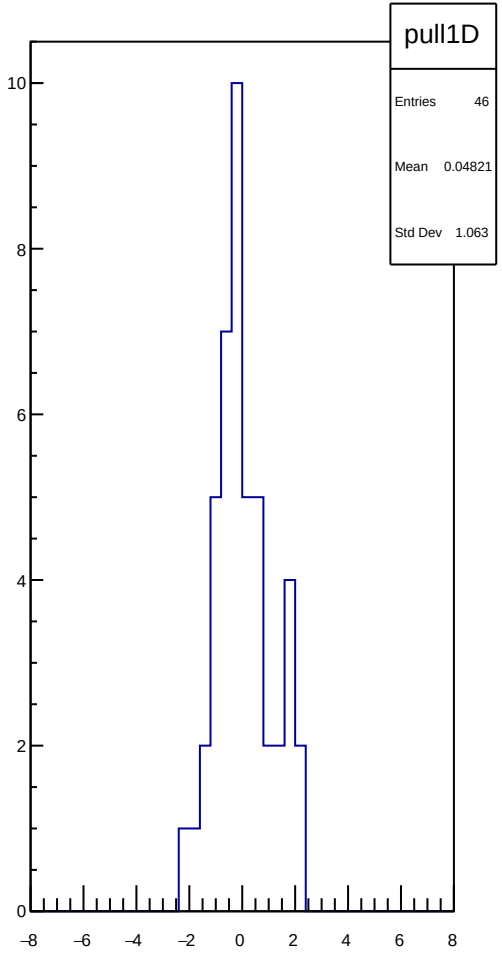

yield_bpm0r05X_rms vs run
χ² / ndf 2065 / 45
p0 0.08855 ± 9.251e–05
0.11
0.105
0.1
0.095
0.09
0.085
0.08
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

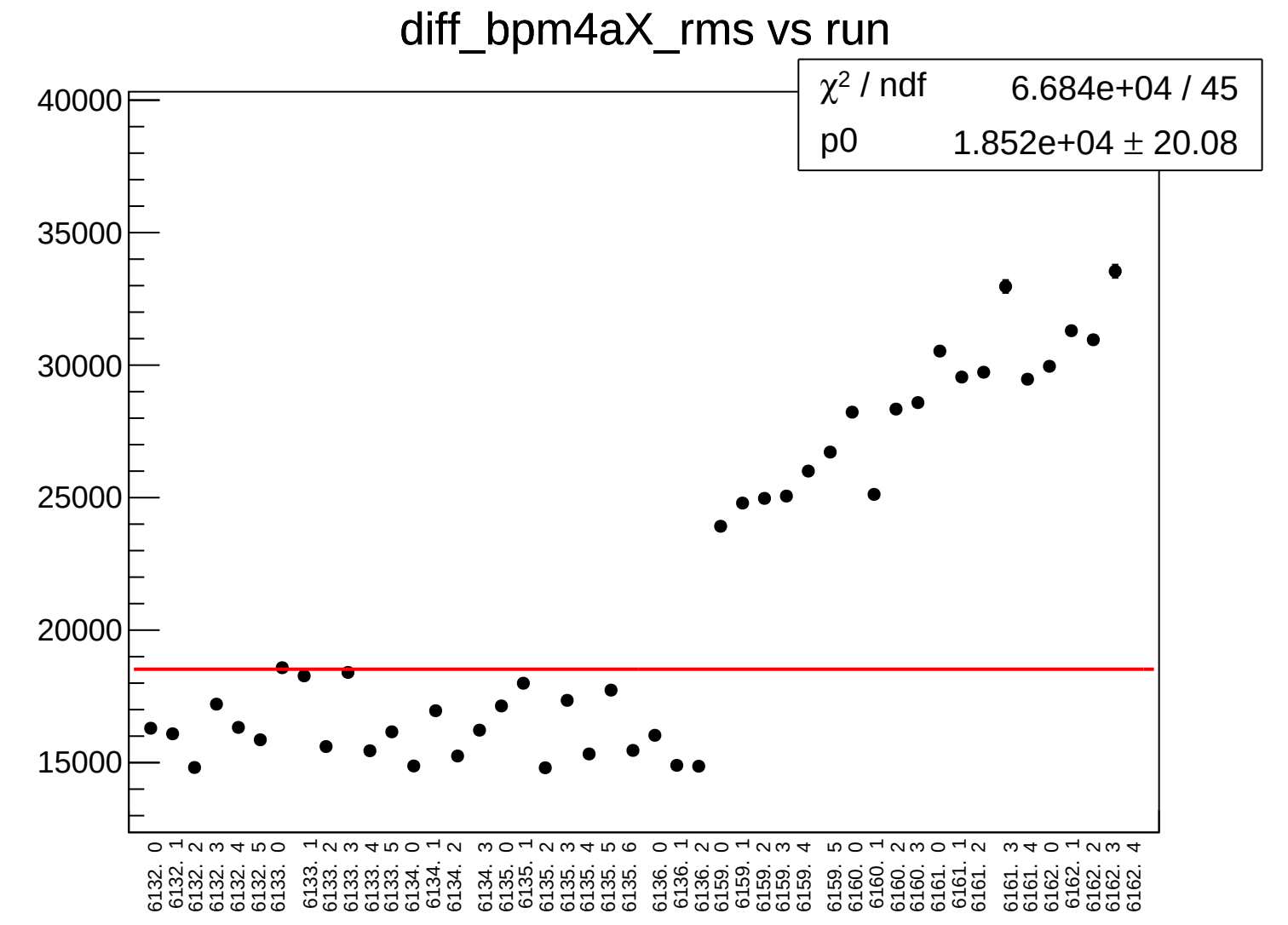

yield_bpm0r05Y_mean vs run
χ² / ndf 7.973e+05 / 45
p0 1.139 ± 3.054e−05
1.18
1.16
1.14
1.12
1.1
1.08
1.06
1.04
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 59.02
Std Dev 0
200
100
0
−100
−200
−300

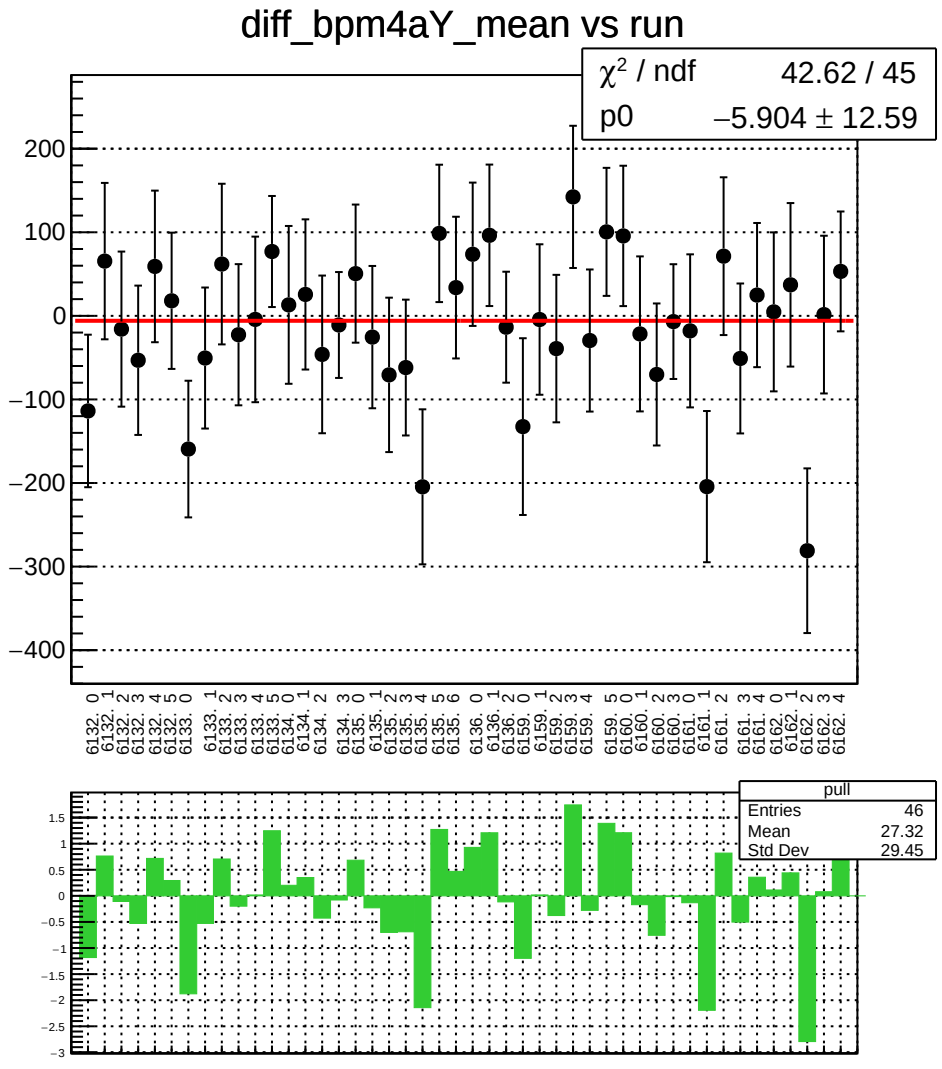

pull1D
Entries 46
Mean −1.75
Std Dev 2.981
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

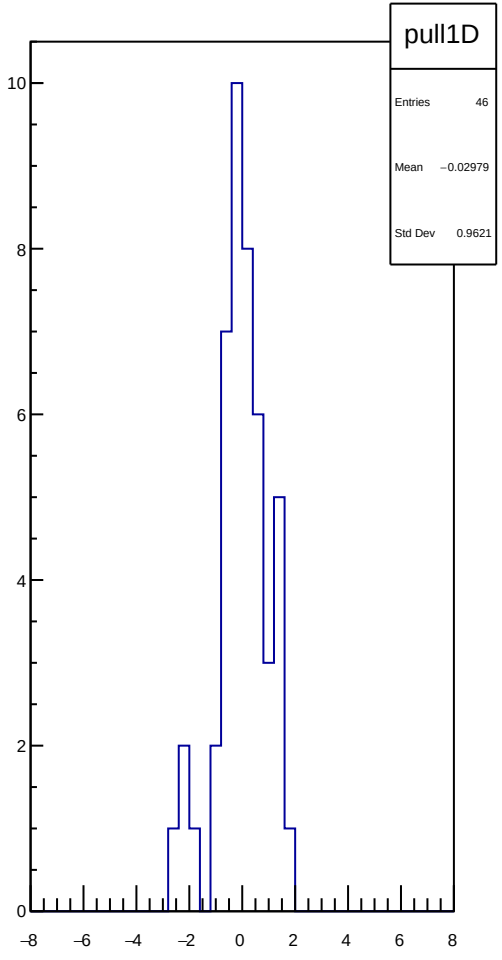

yield_bpm0r05Y_rms vs run
χ² / ndf 2.256e+05 / 45
p0 0.01797 ± 2.159e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

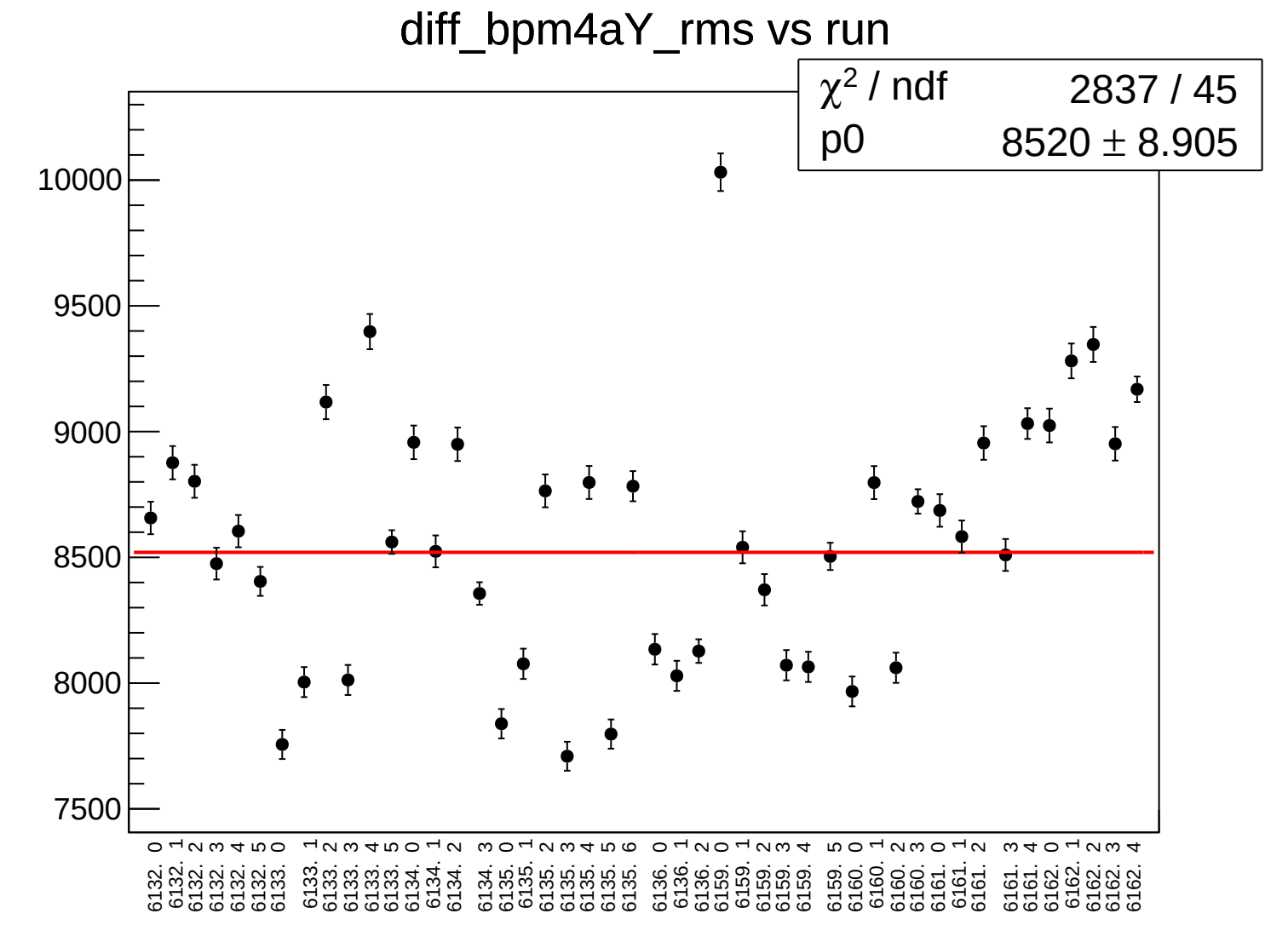

diff_bpm4aX_mean vs run
χ² / ndf 52.08 / 45
p0 −5.971± 28.39
1000
800
600
400
200
0
−200
−400
−600
−800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 96.57
Std Dev 0
2
1
0
−1
−2

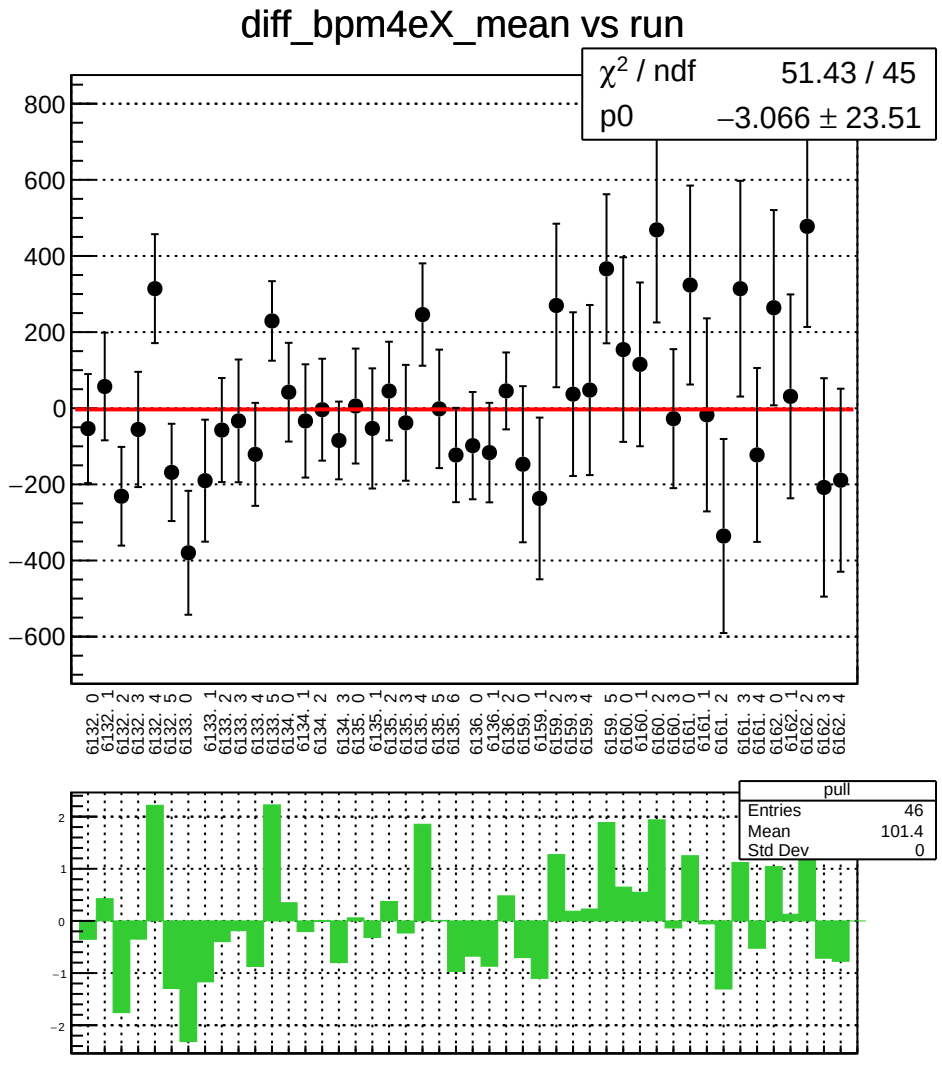

pull1D
Entries 46
Mean 0.04821
Std Dev 1.063
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

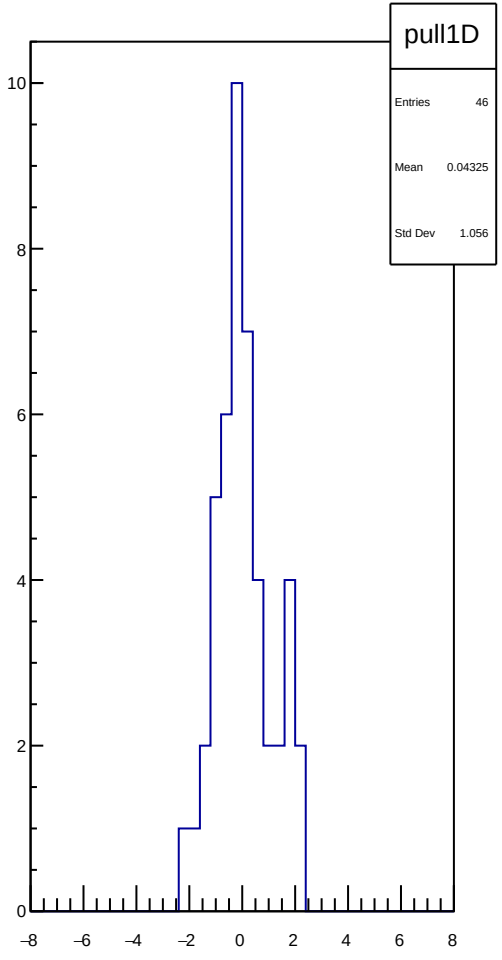

diff_bpm4aX_rms vs run
χ² / ndf 6.684e+04 / 45
p0 1.852e+04 ± 20.08
40000
35000
30000
25000
20000
15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

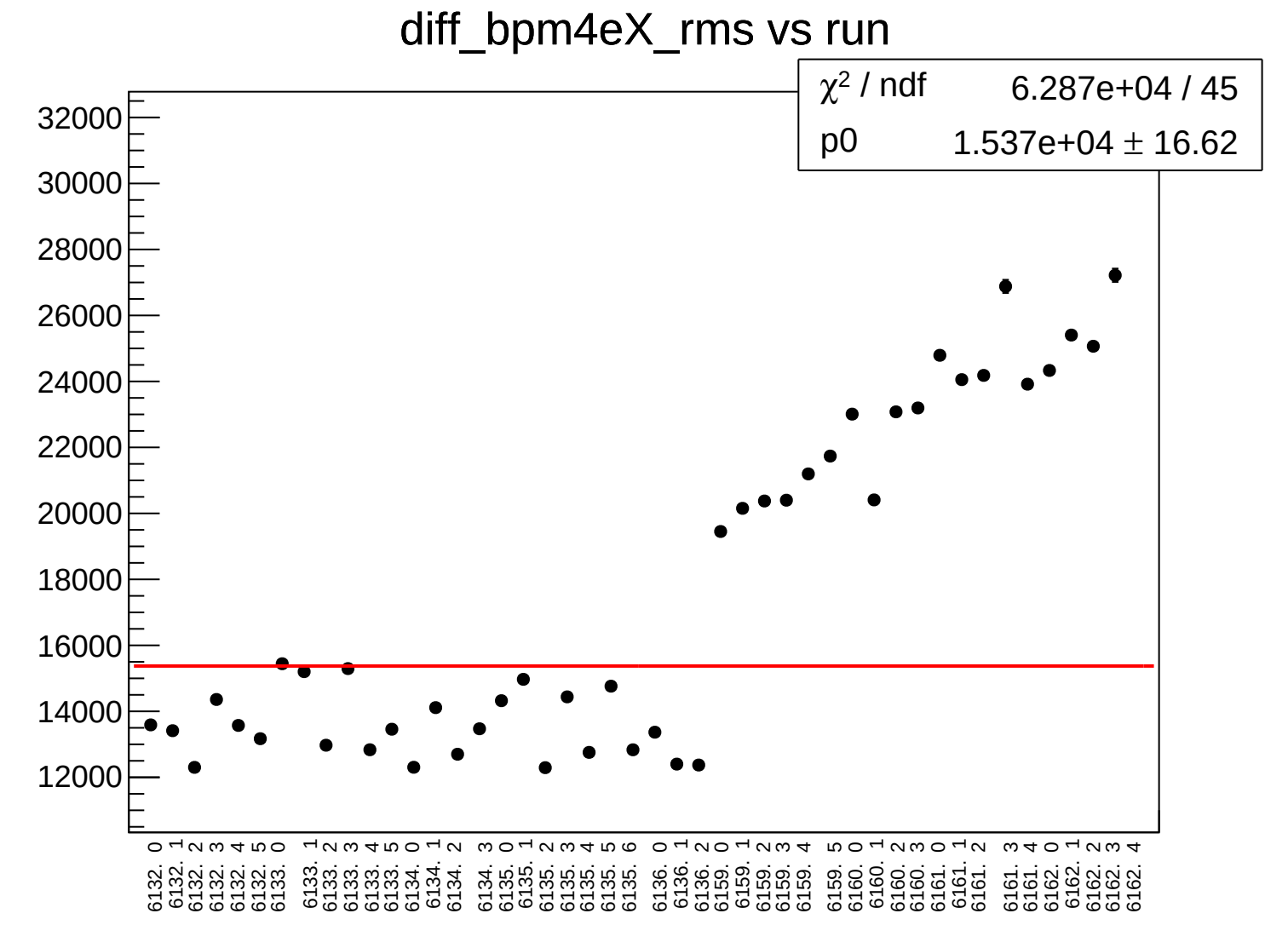

diff_bpm4aY_mean vs run
χ² / ndf 42.62 / 45
p0 −5.904 ± 12.59
200
100
0
−100
−200
−300
−400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 27.32
Std Dev 29.45
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

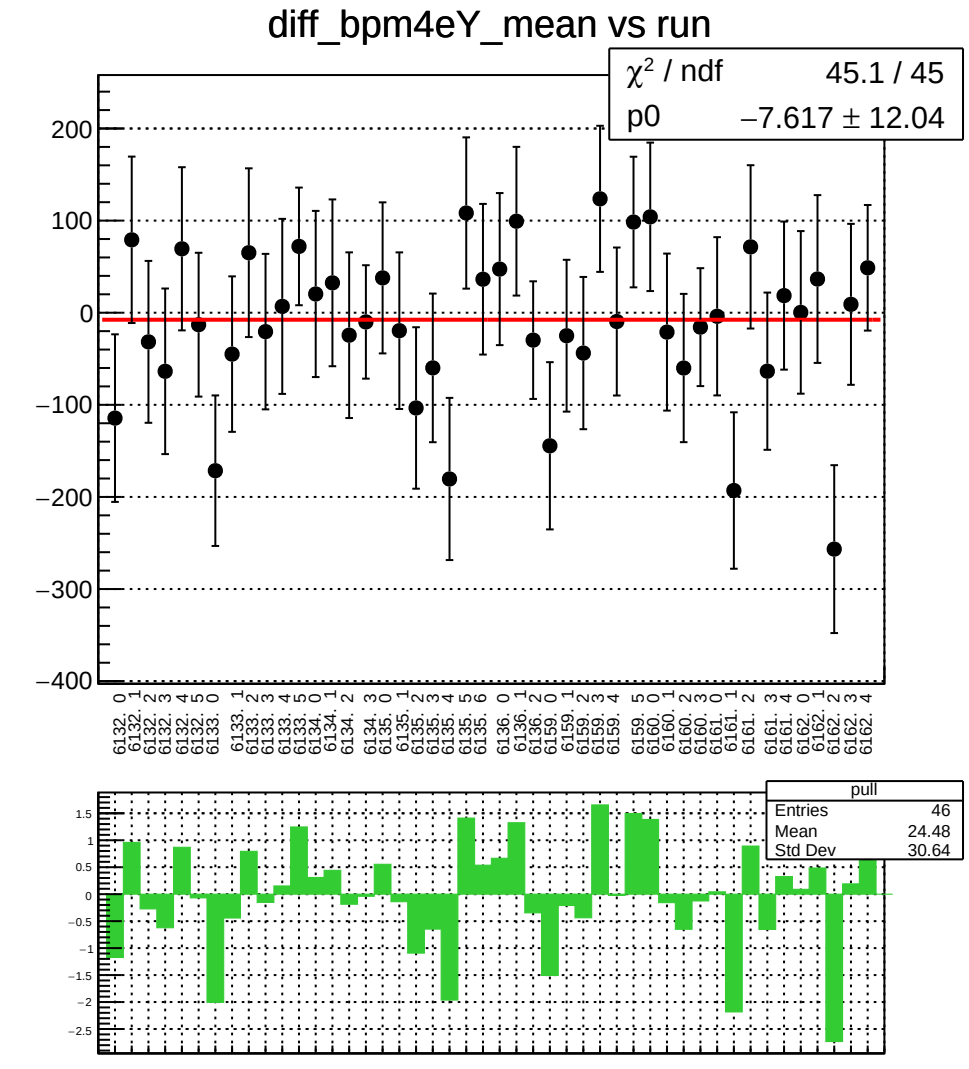

pull1D
Entries 46
Mean −0.02979
Std Dev 0.9621
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

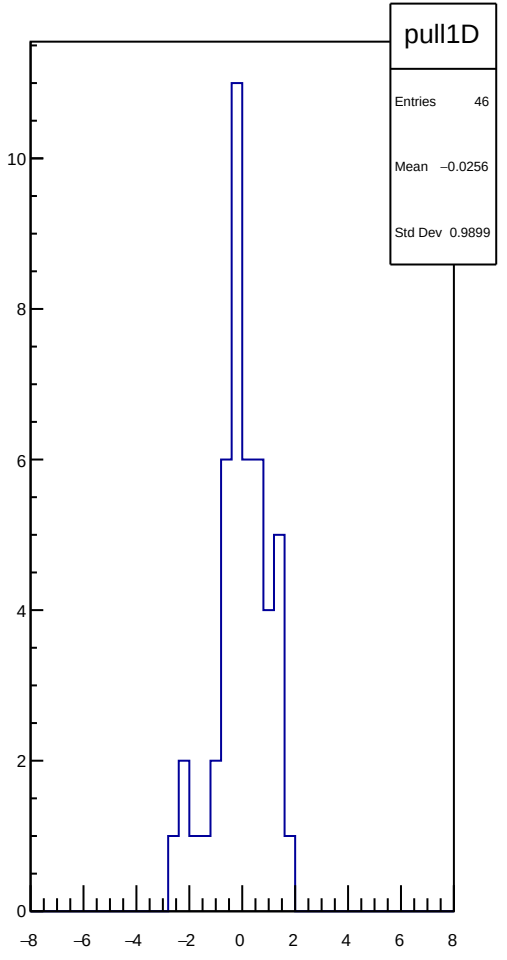

diff_bpm4aY_rms vs run
χ² / ndf 2837 / 45
p0 8520 ± 8.905
10000
9500
9000
8500
8000
7500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

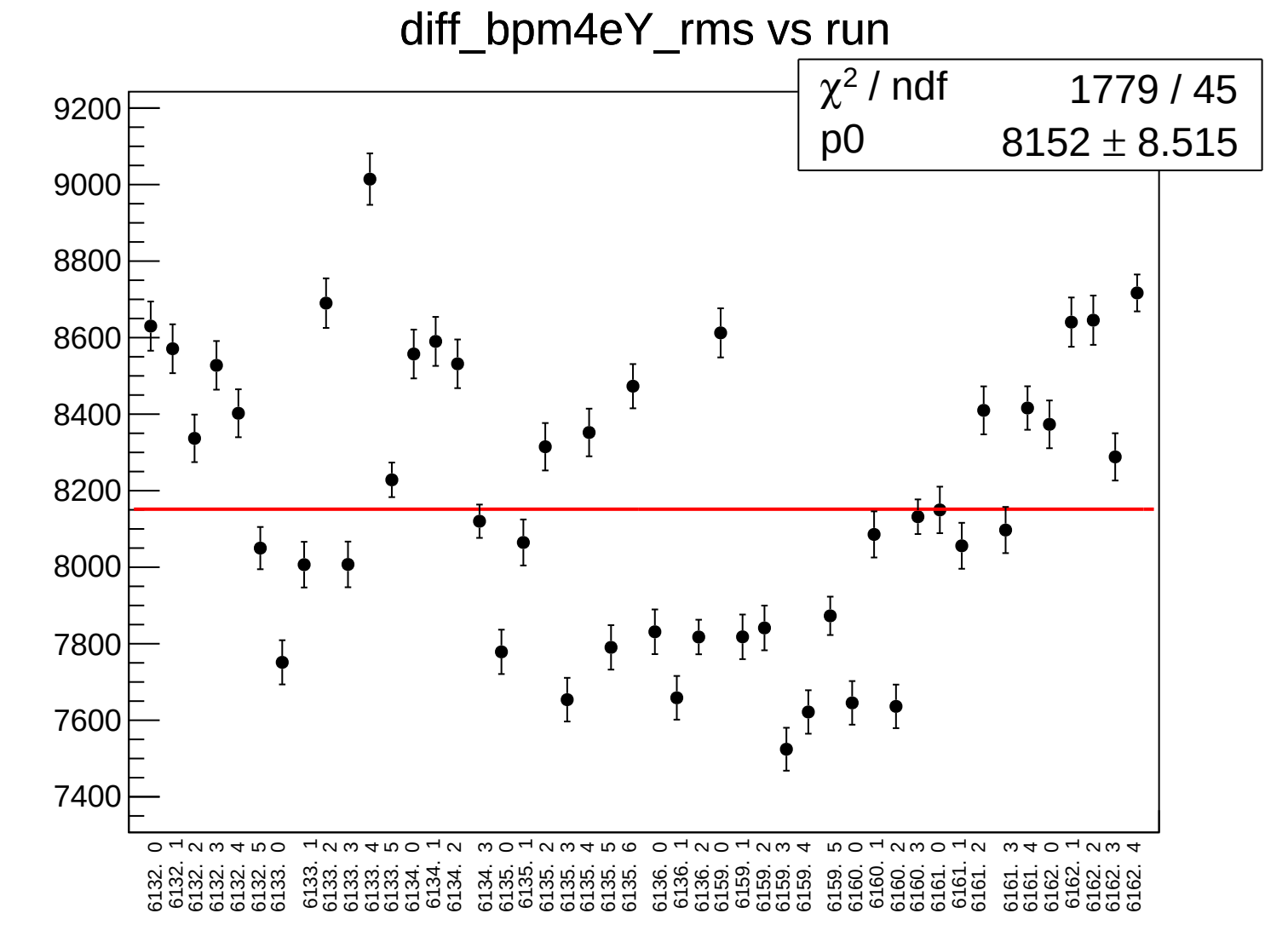

diff_bpm4eX_mean vs run
χ² / ndf 51.43 / 45
p0 −3.066 ± 23.51
800
600
400
200
0
−200
−400
−600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 101.4
Std Dev 0
2
1
0
−1
−2

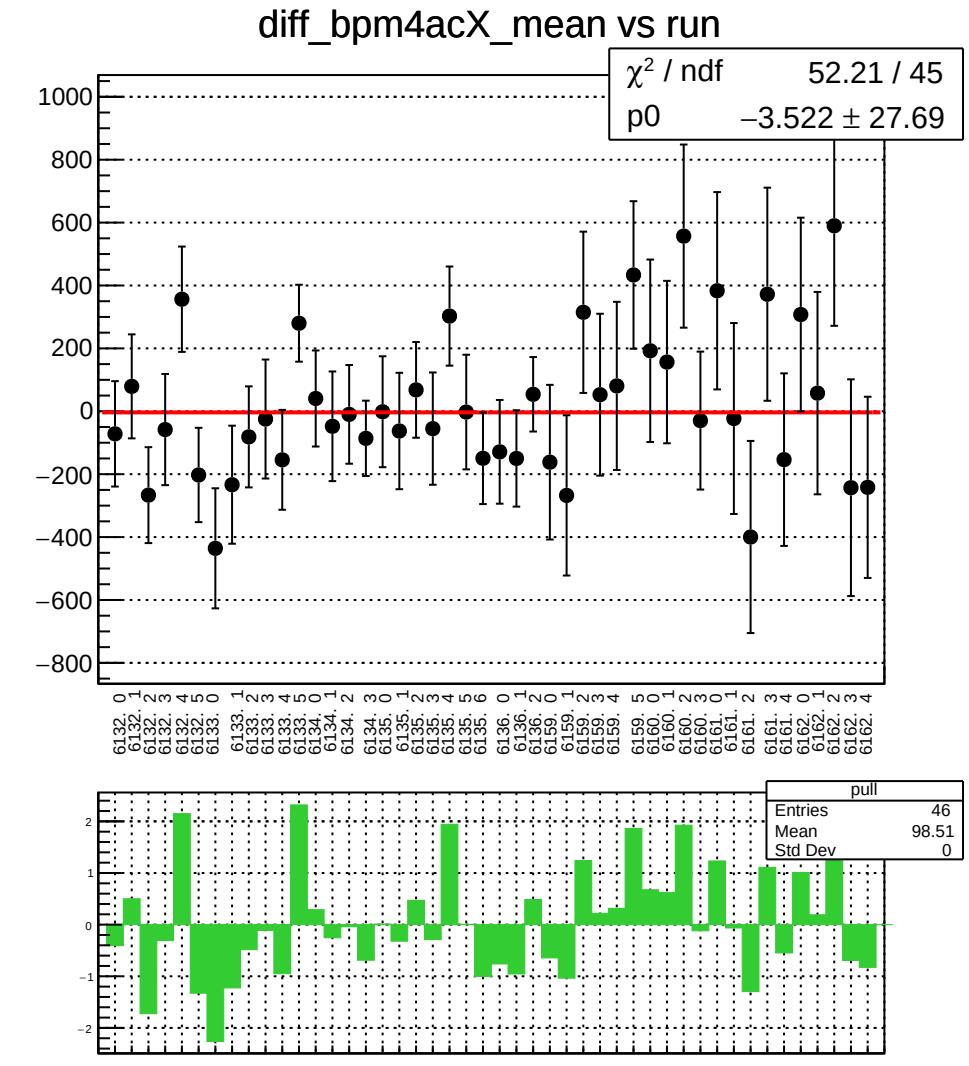

pull1D
Entries 46
Mean 0.04325
Std Dev 1.056
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

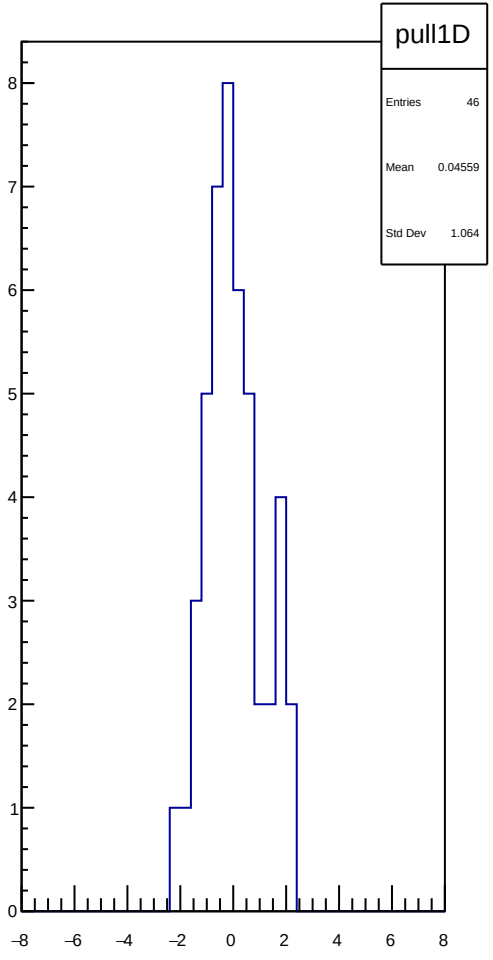

diff_bpm4eX_rms vs run
χ² / ndf 6.287e+04 / 45
p0 1.537e+04 ± 16.62
32000
30000
28000
26000
24000
22000
20000
18000
16000
14000
12000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

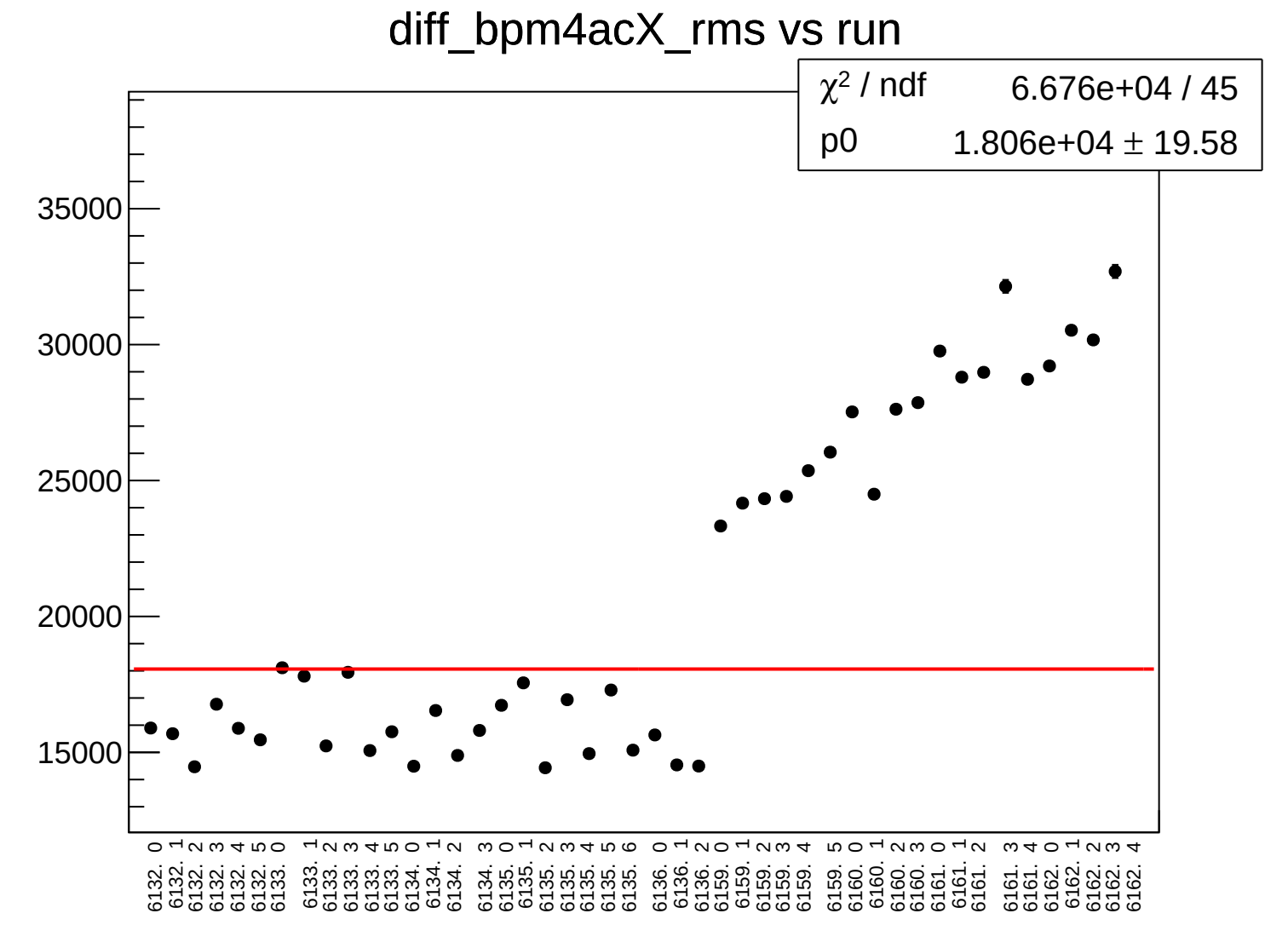

diff_bpm4eY_mean vs run
χ² / ndf 45.1 / 45
p0 −7.617 ± 12.04
200
100
0
−100
−200
−300
−400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 24.48
Std Dev 30.64
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

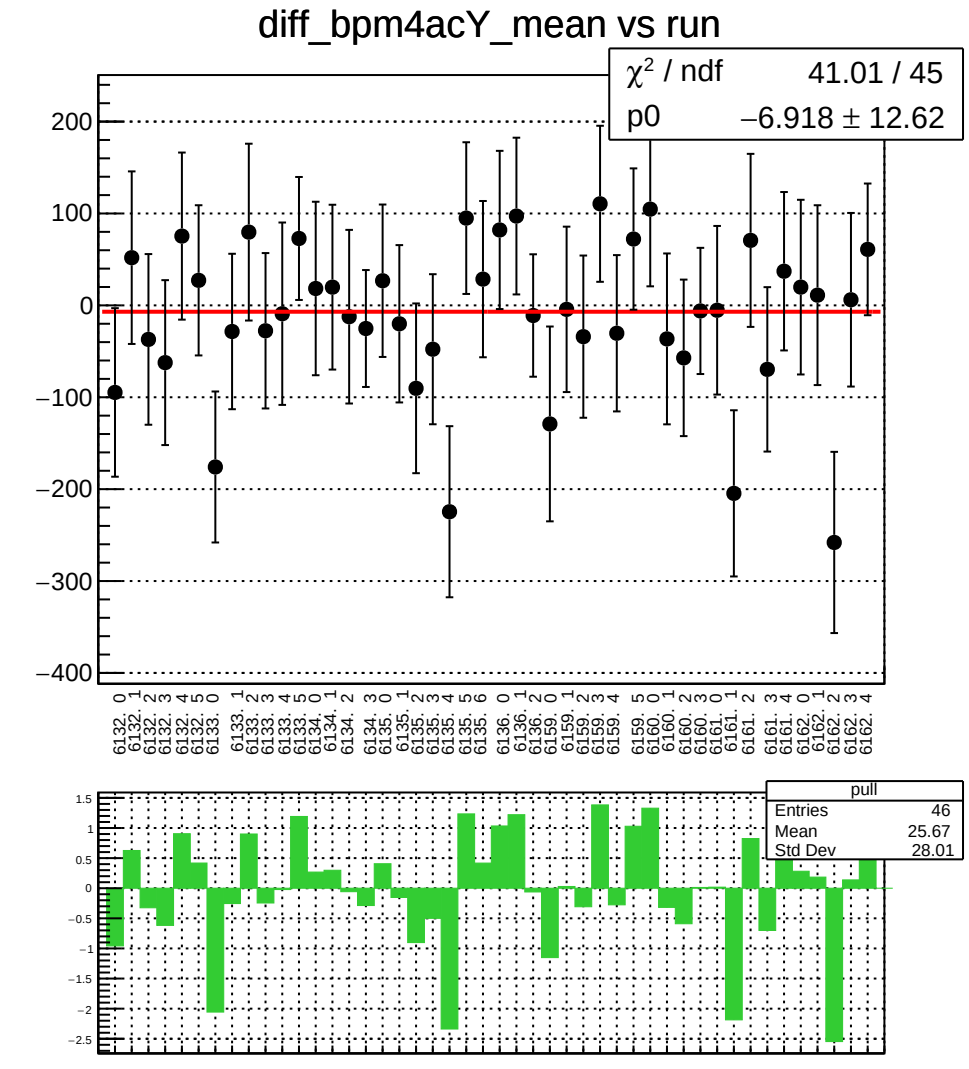

pull1D
Entries 46
Mean −0.0256
Std Dev 0.9899
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

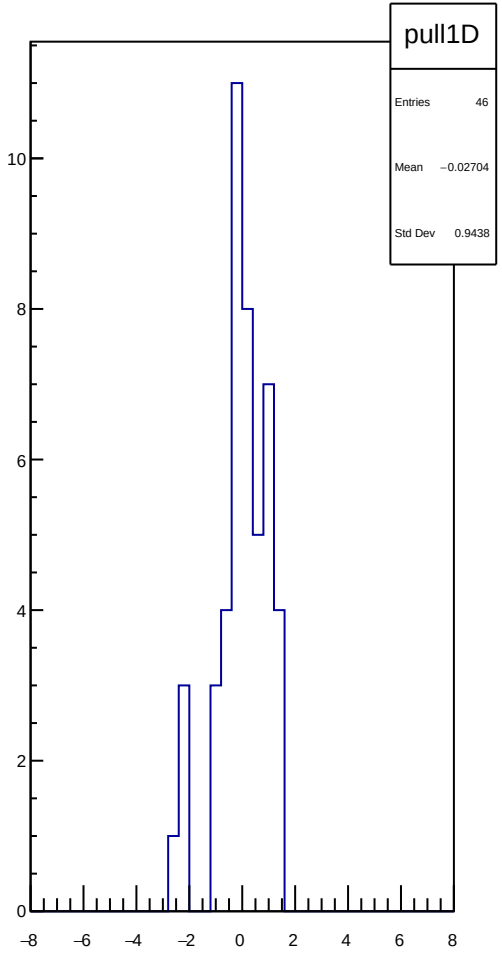

diff_bpm4eY_rms vs run
χ² / ndf 1779 / 45
p0 8152 ± 8.515
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

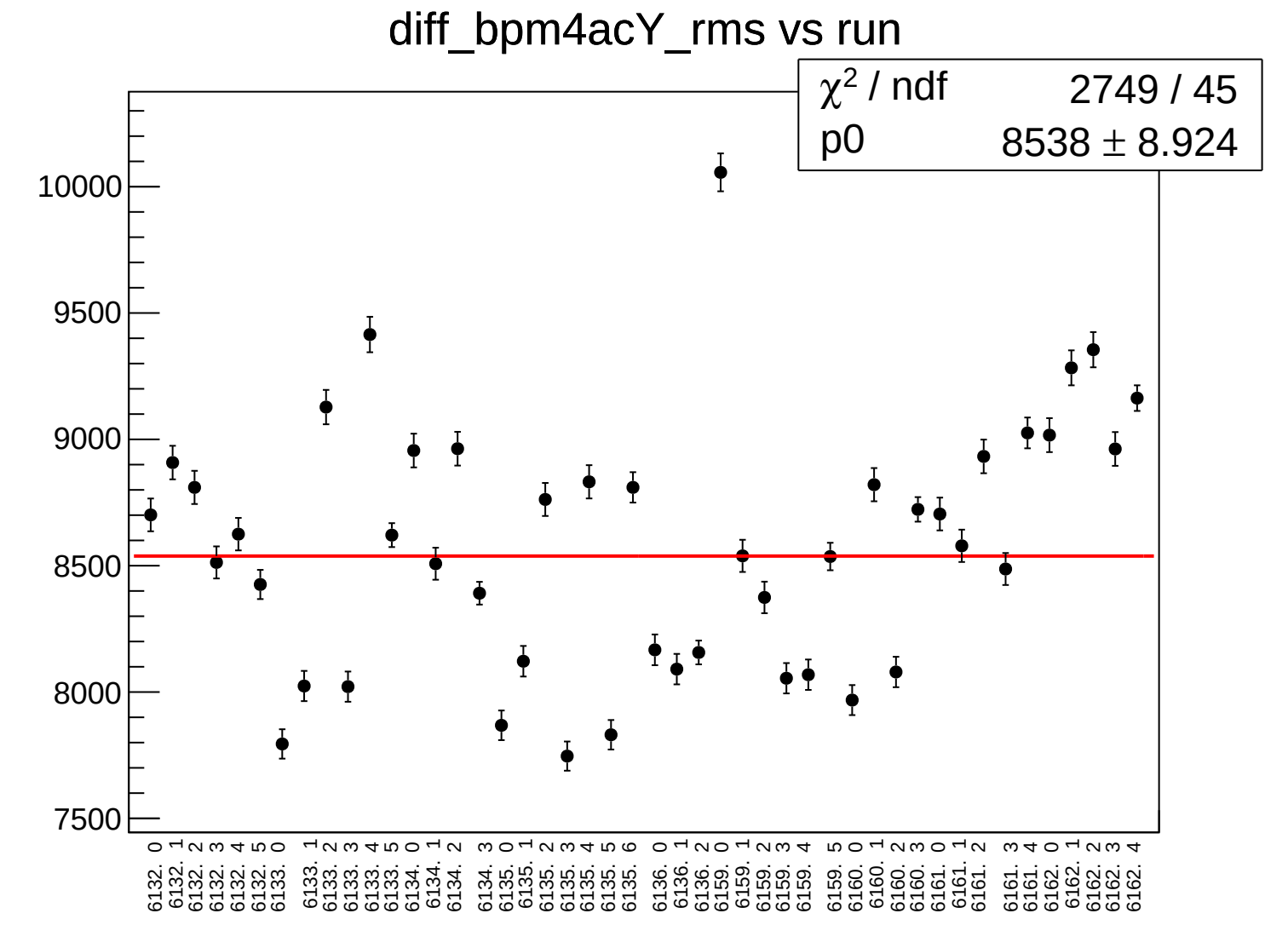

diff_bpm4acX_mean vs run
χ² / ndf 52.21 / 45
p0 −3.522 ± 27.69
1000
800
600
400
200
0
−200
−400
−600
−800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 98.51
Std Dev 0
2
1
0
−1
−2

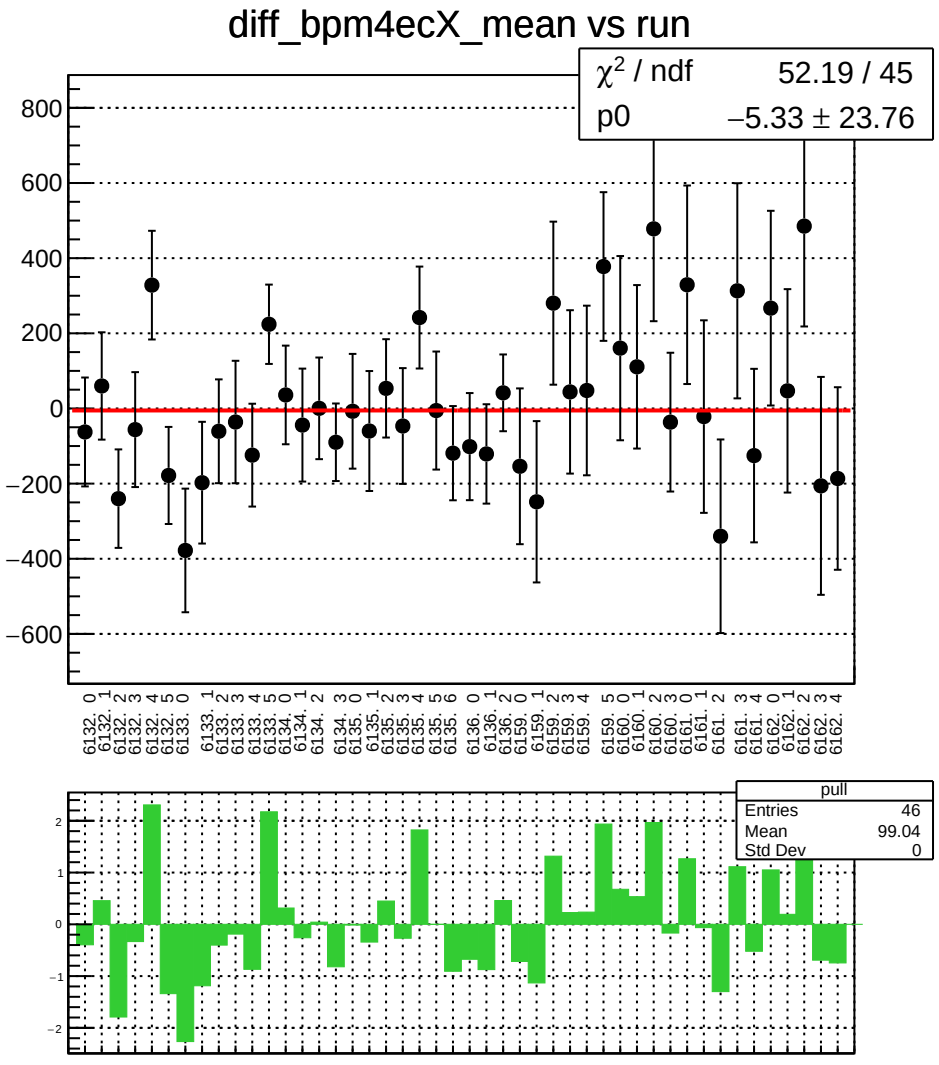

pull1D
Entries 46
Mean 0.04559
Std Dev 1.064
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

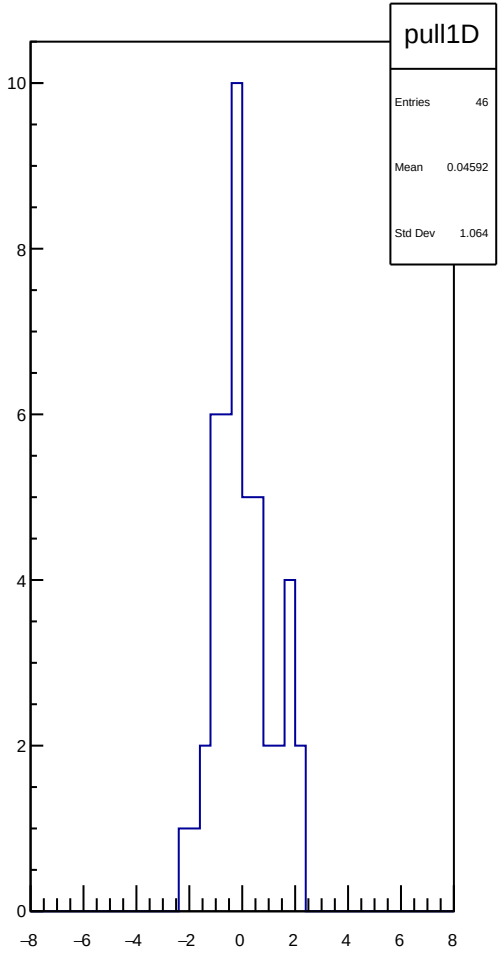

diff_bpm4acX_rms vs run
χ² / ndf 6.676e+04 / 45
p0 1.806e+04 ± 19.58
35000
30000
25000
20000
15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

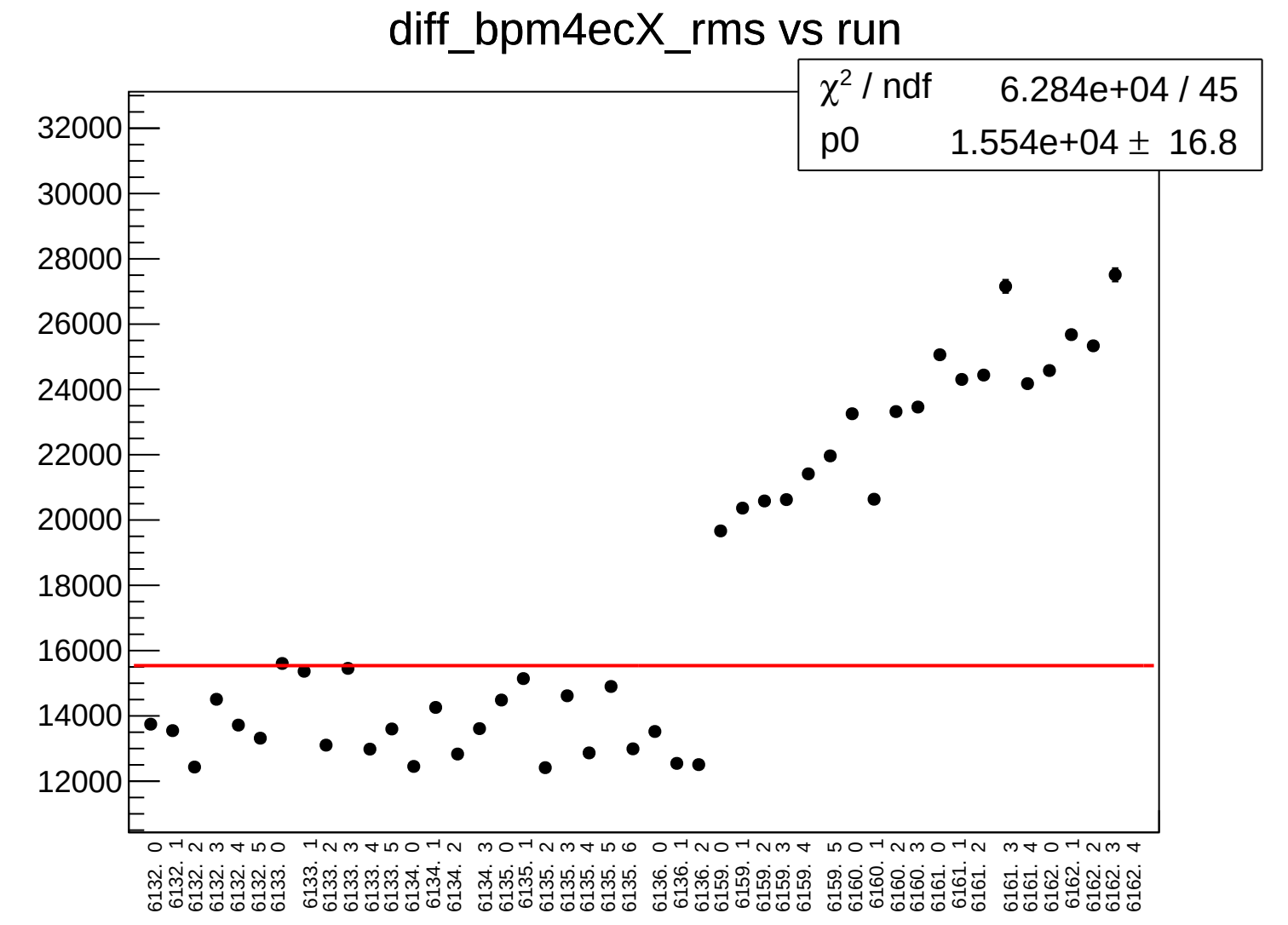

diff_bpm4acY_mean vs run
χ² / ndf 41.01 / 45
p0 −6.918 ± 12.62
200
100
0
−100
−200
−300
−400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 25.67
Std Dev 28.01
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

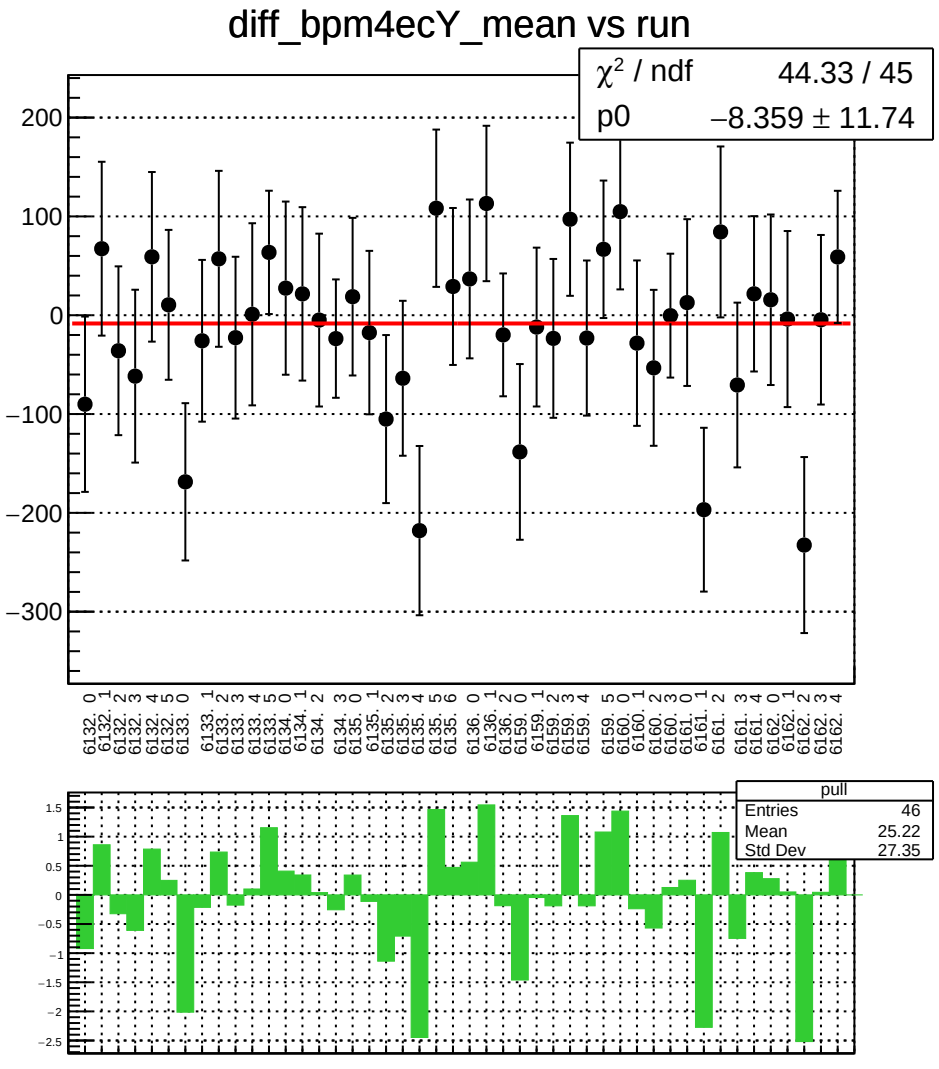

pull1D
Entries 46
Mean −0.02704
Std Dev 0.9438
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

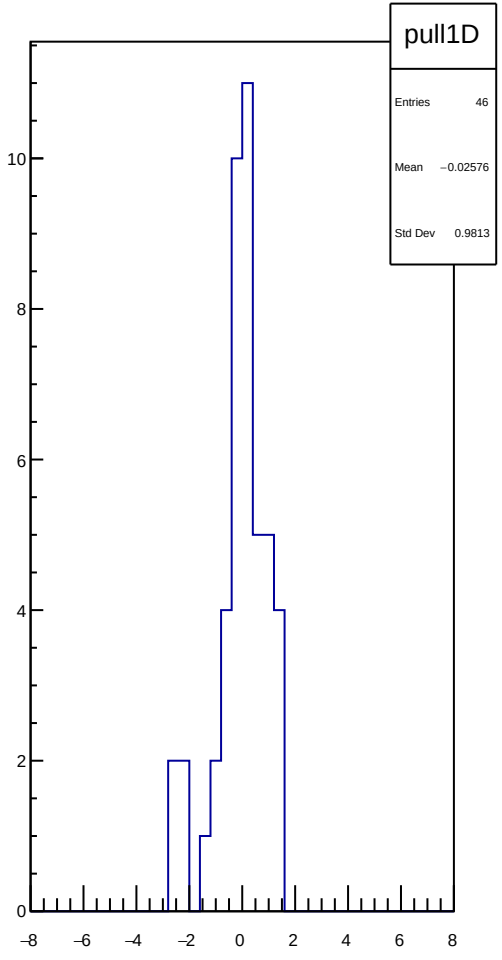

diff_bpm4acY_rms vs run
χ² / ndf 2749 / 45
p0 8538 ± 8.924
10000
9500
9000
8500
8000
7500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

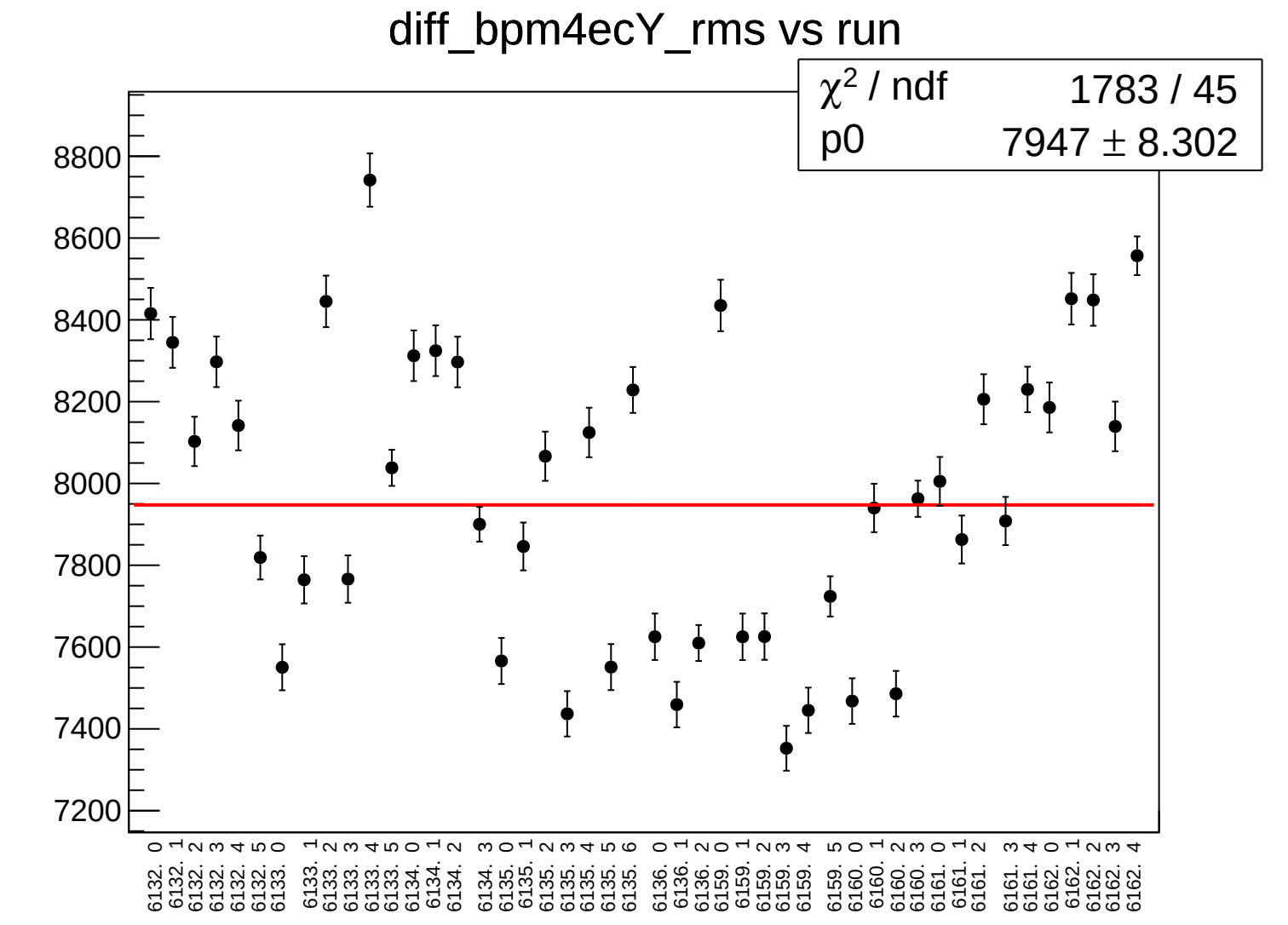

diff_bpm4ecX_mean vs run
χ² / ndf 52.19 / 45
p0 −5.33 ± 23.76
pull
Entries 46
Mean 99.04
Std Dev 0

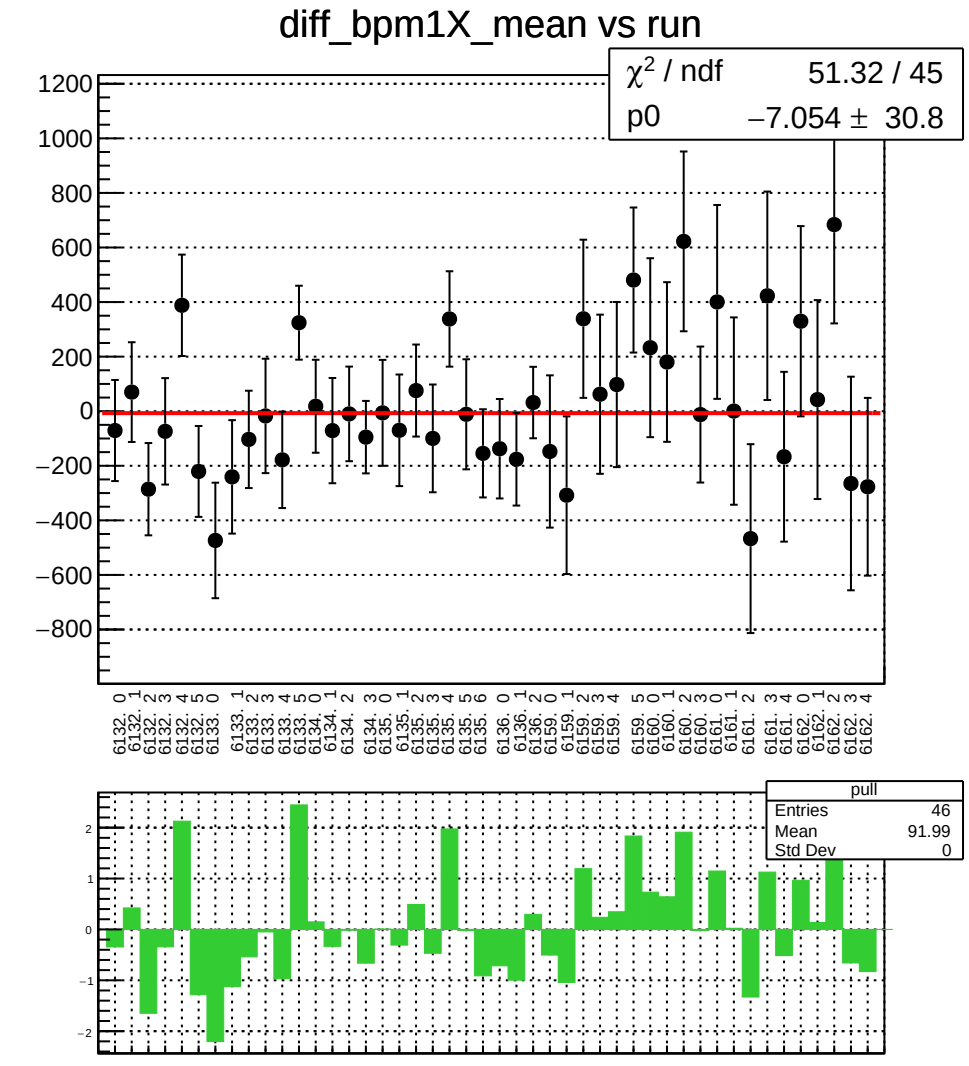

pull1D
Entries 46
Mean 0.04592
Std Dev 1.064

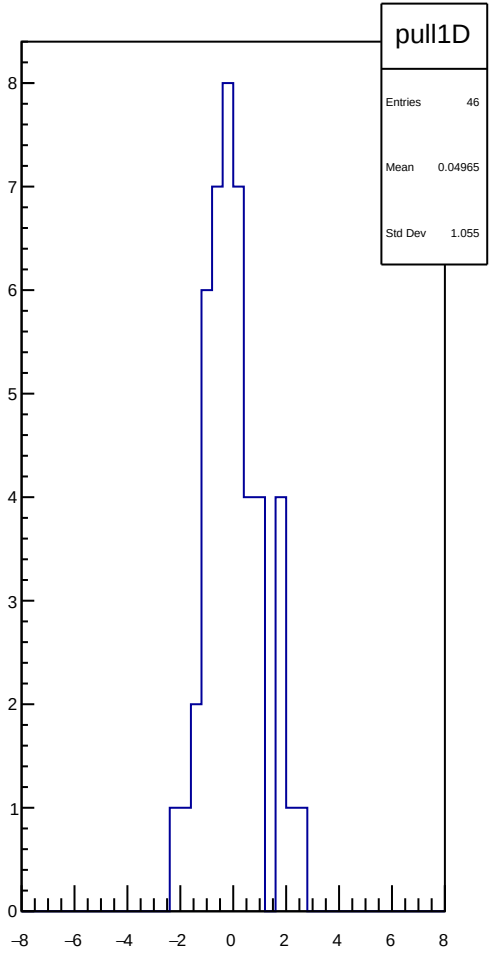

diff_bpm4ecX_rms vs run
χ² / ndf 6.284e+04 / 45
p0 1.554e+04 ± 16.8
32000
30000
28000
26000
24000
22000
20000
18000
16000
14000
12000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

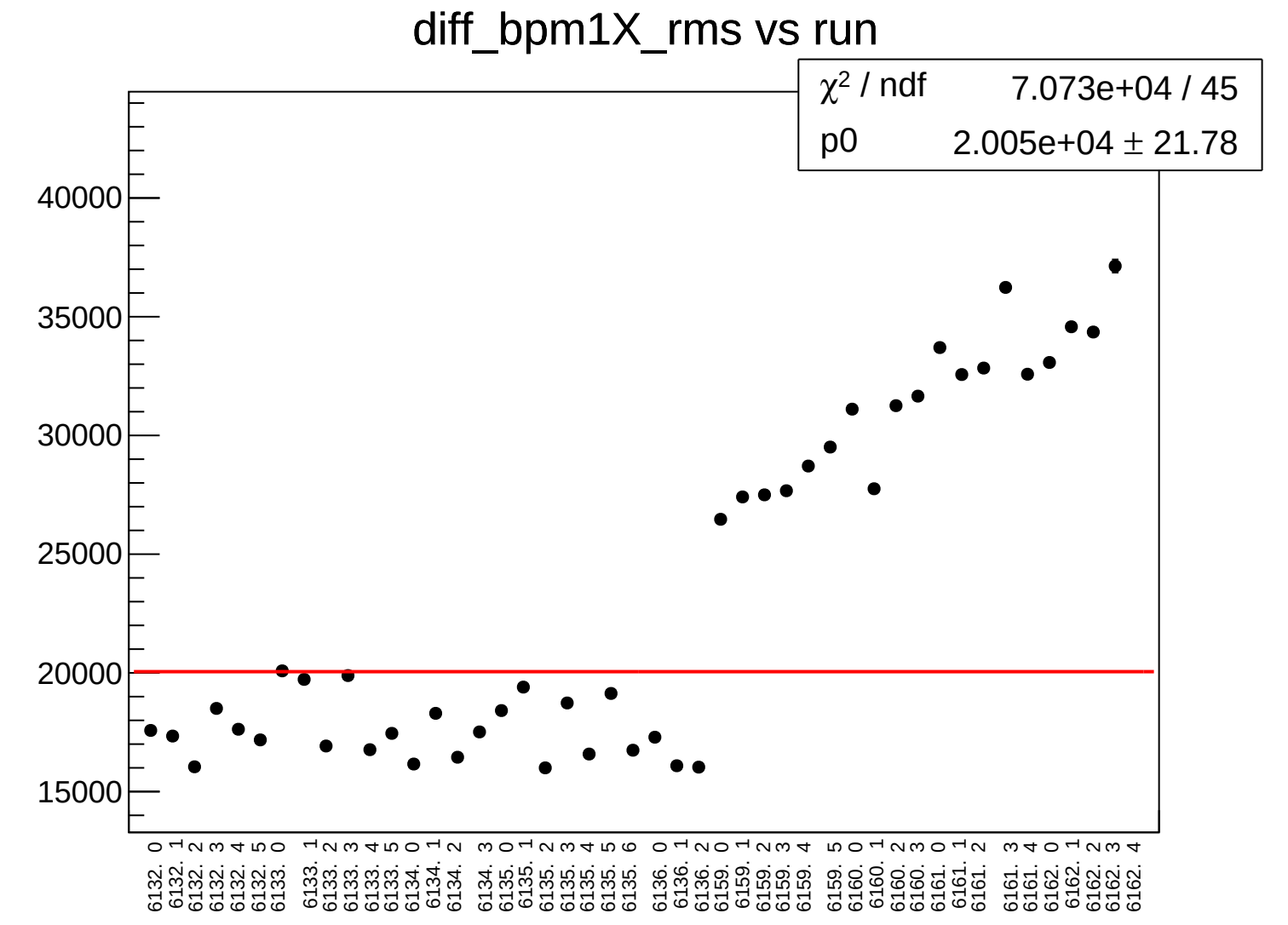

diff_bpm4ecY_mean vs run
χ² / ndf 44.33 / 45
p0 −8.359 ± 11.74
200
100
0
−100
−200
−300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 25.22
Std Dev 27.35
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

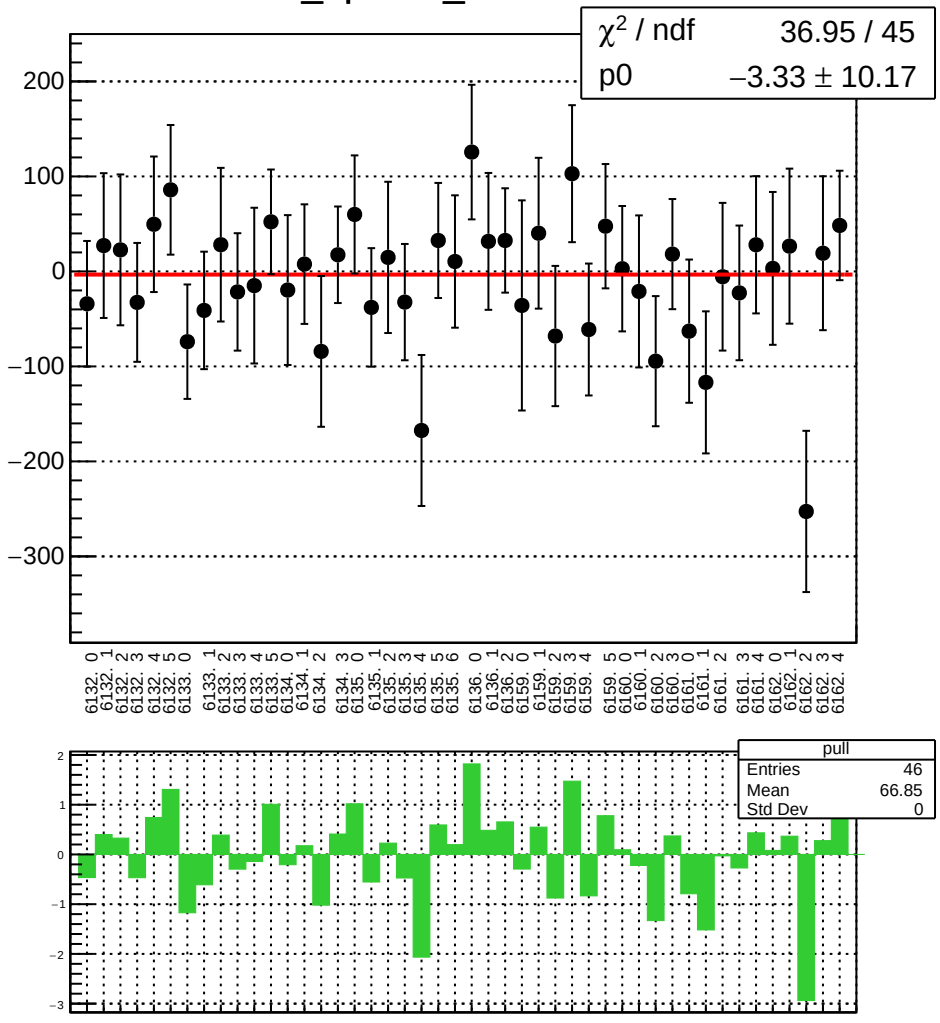

pull1D
Entries 46
Mean −0.02576
Std Dev 0.9813
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

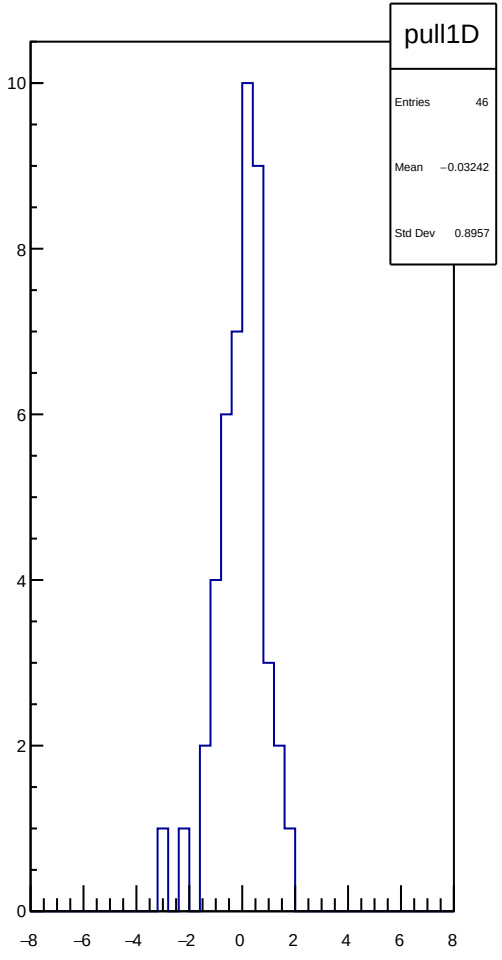

diff_bpm4ecY_rms vs run
χ² / ndf 1783 / 45
p0 7947 ± 8.302
8800
8600
8400
8200
8000
7800
7600
7400
7200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

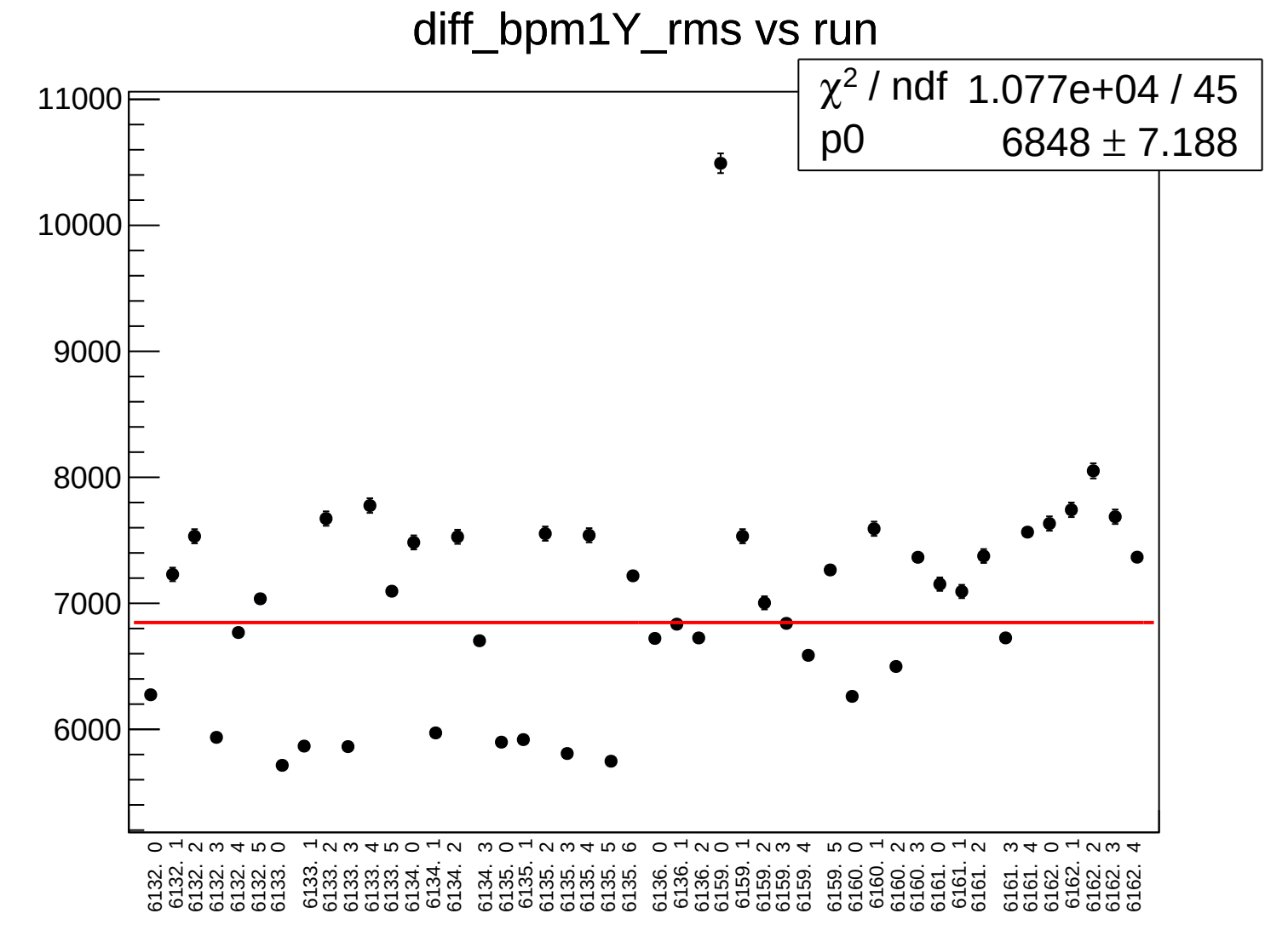

diff_bpm1X_mean vs run
χ² / ndf 51.32 / 45
p0 −7.054 ± 30.8
pull
Entries 46
Mean 91.99
Std Dev 0

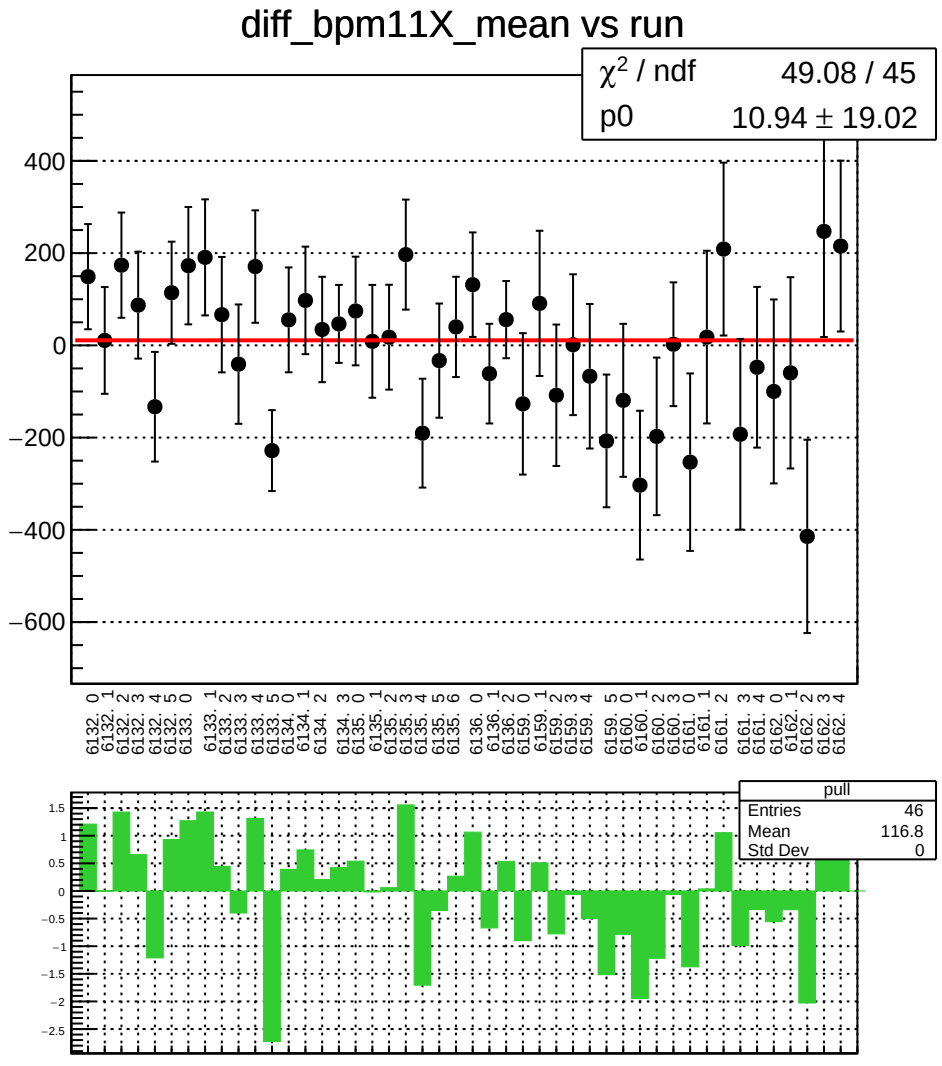

pull1D
Entries 46
Mean 0.04965
Std Dev 1.055

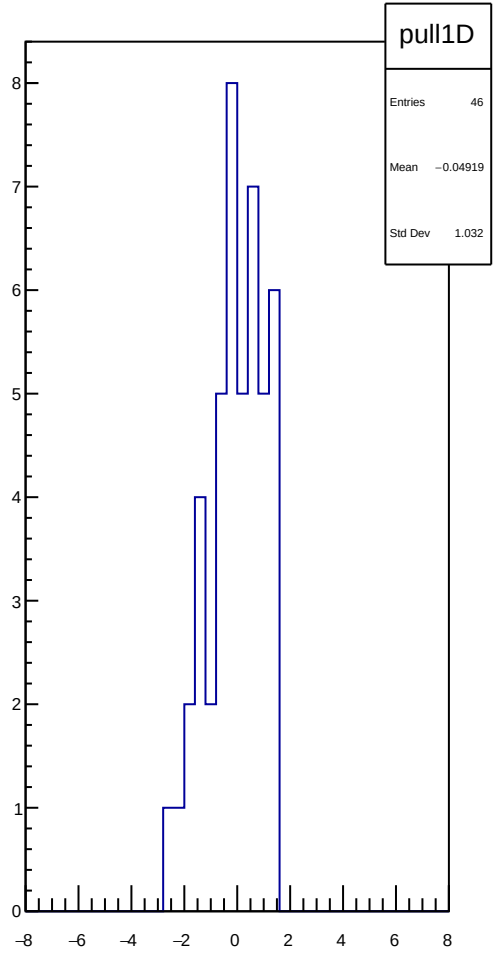

diff_bpm1X_rms vs run
χ² / ndf 7.073e+04 / 45
p0 2.005e+04 ± 21.78
40000
35000
30000
25000
20000
15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

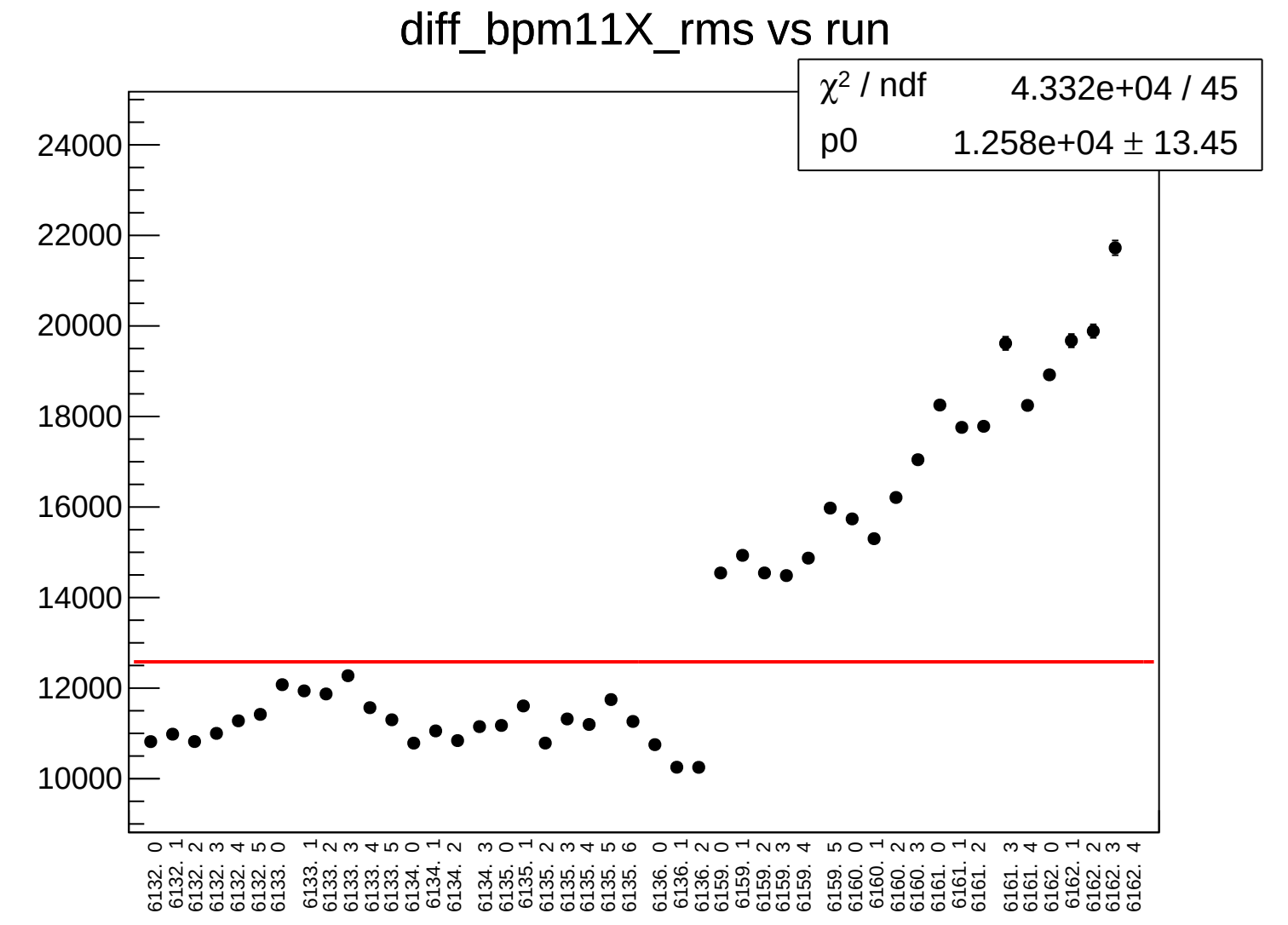

diff_bpm1Y_mean vs run
χ² / ndf 36.95 / 45
p0 −3.33 ± 10.17
200
100
0
−100
−200
−300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 66.85
Std Dev 0
2
1
0
−1
−2
−3

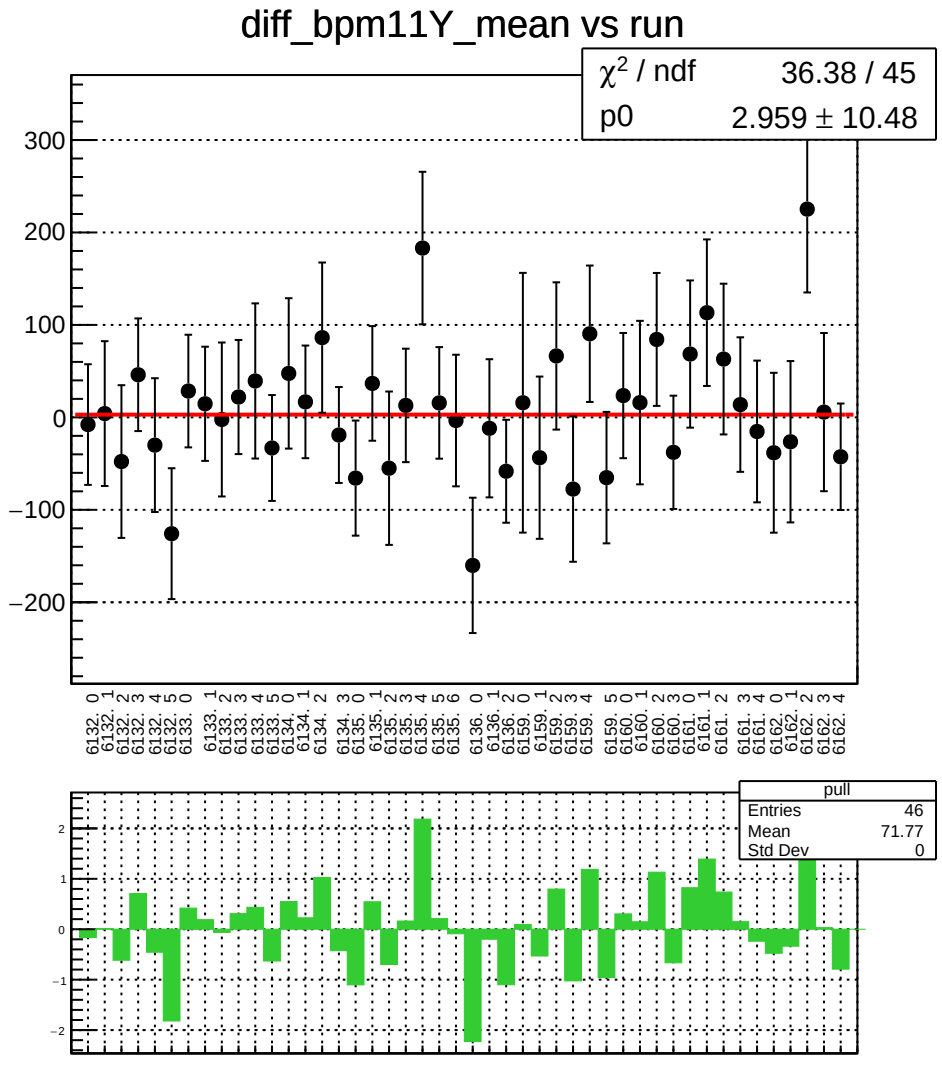

pull1D
Entries 46
Mean −0.03242
Std Dev 0.8957
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

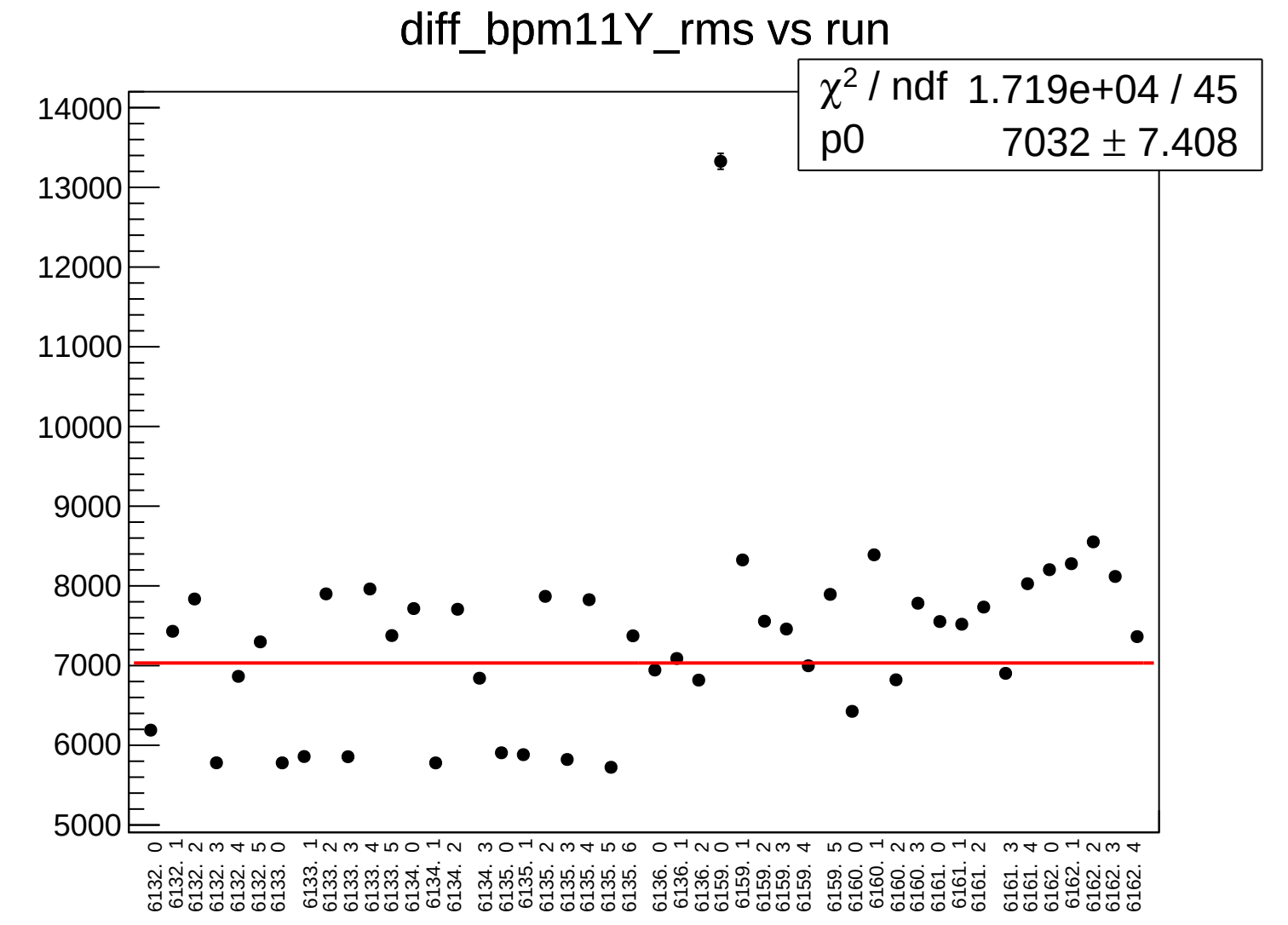

diff_bpm1Y_rms vs run
χ² / ndf 1.077e+04 / 45
p0 6848 ± 7.188
11000
10000
9000
8000
7000
6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

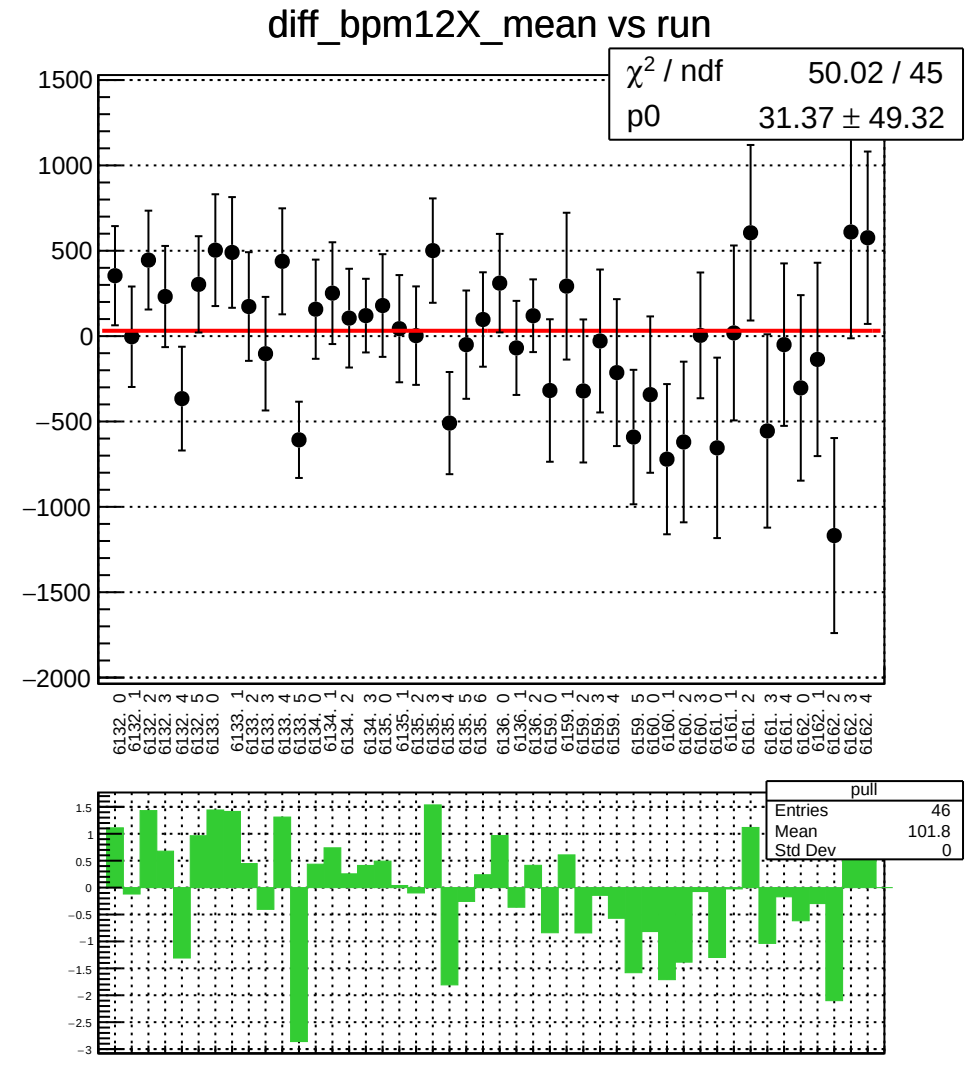

diff_bpm11X_mean vs run
χ² / ndf 49.08 / 45
p0 10.94 ± 19.02
400
200
0
−200
−400
−600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 116.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

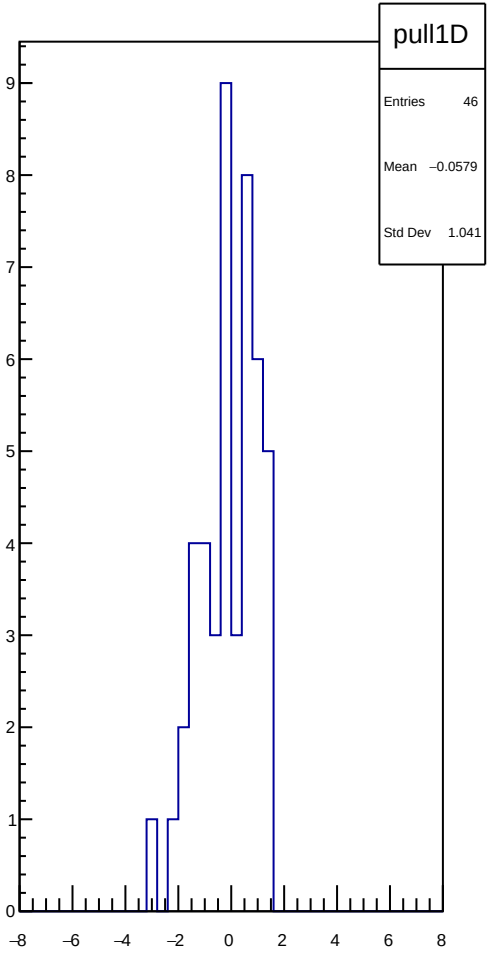

pull1D
Entries 46
Mean −0.04919
Std Dev 1.032
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

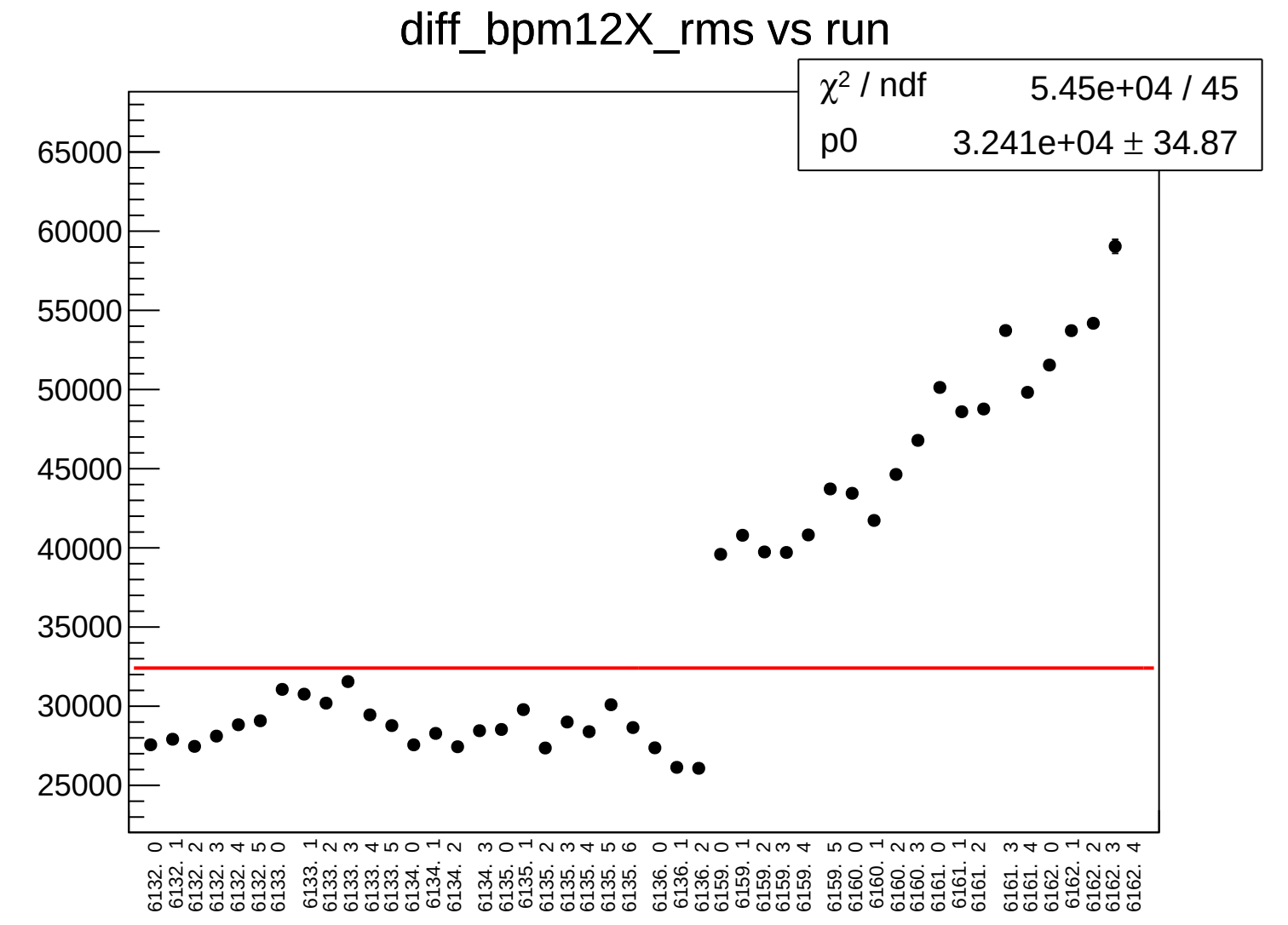

diff_bpm11X_rms vs run
χ² / ndf 4.332e+04 / 45
p0 1.258e+04 ± 13.45
24000
22000
20000
18000
16000
14000
12000
10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

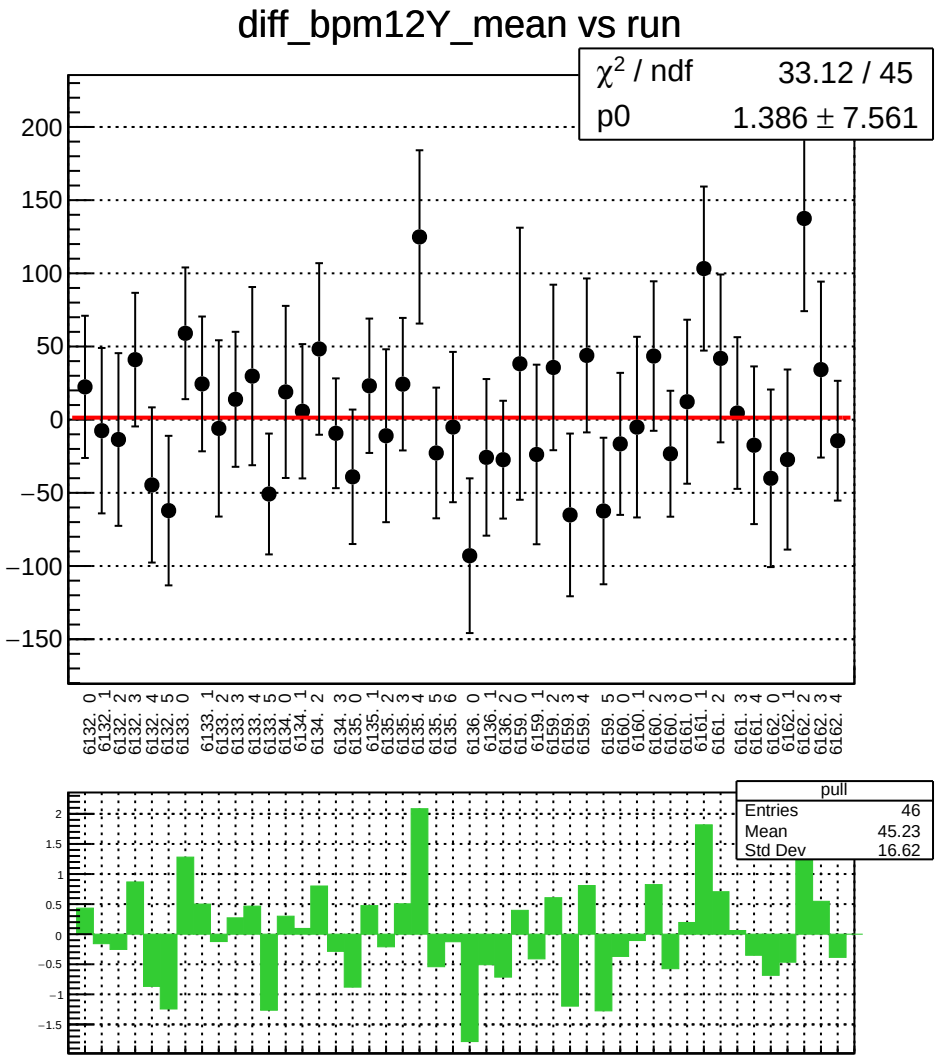

diff_bpm11Y_mean vs run
χ² / ndf 36.38 / 45
p0 2.959 ± 10.48
300
200
100
0
−100
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 71.77
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.03531
Std Dev 0.8886
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

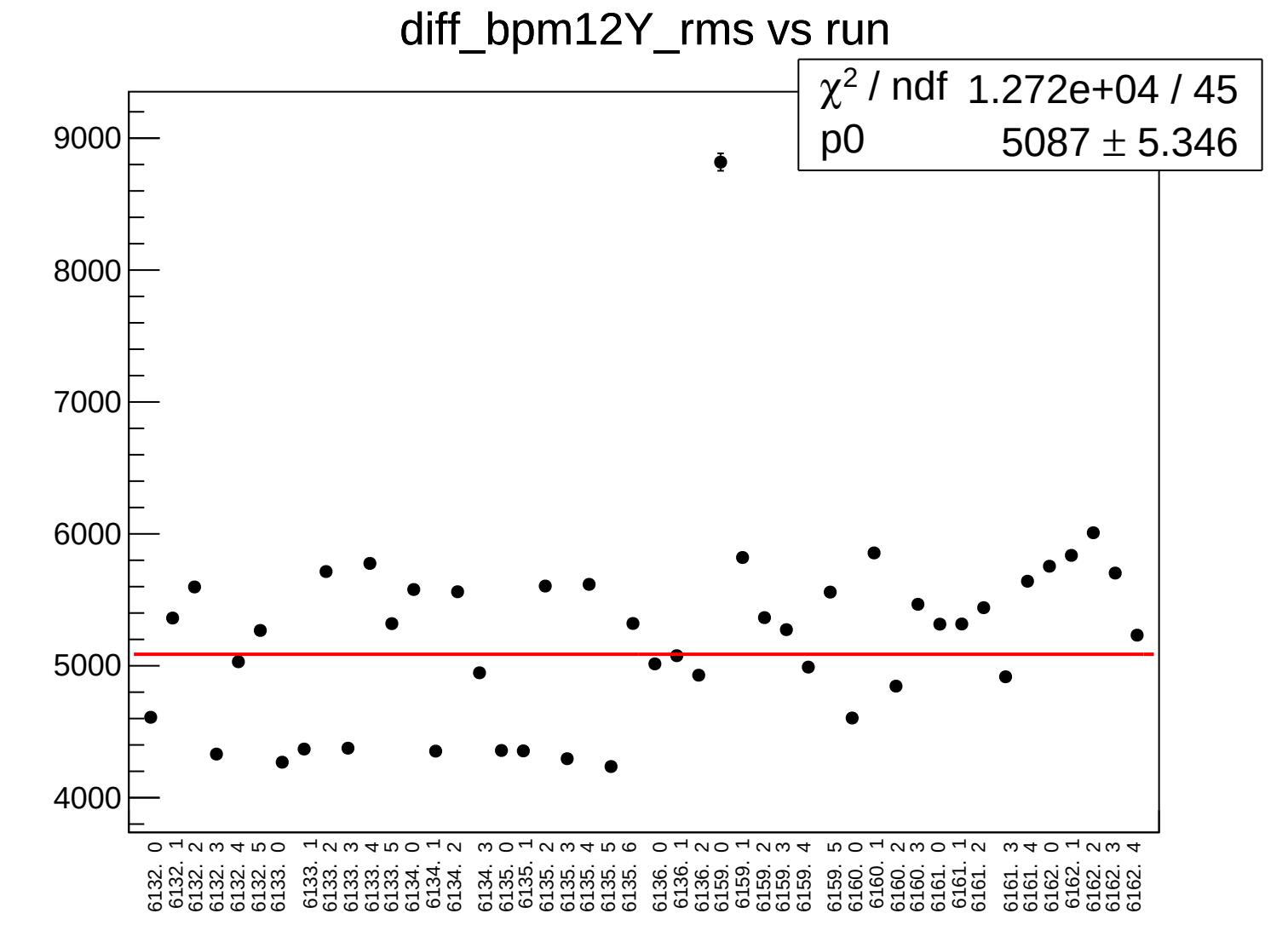

diff_bpm11Y_rms vs run
χ² / ndf 1.719e+04 / 45
p0 7032 ± 7.408
14000
13000
12000
11000
10000
9000
8000
7000
6000
5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

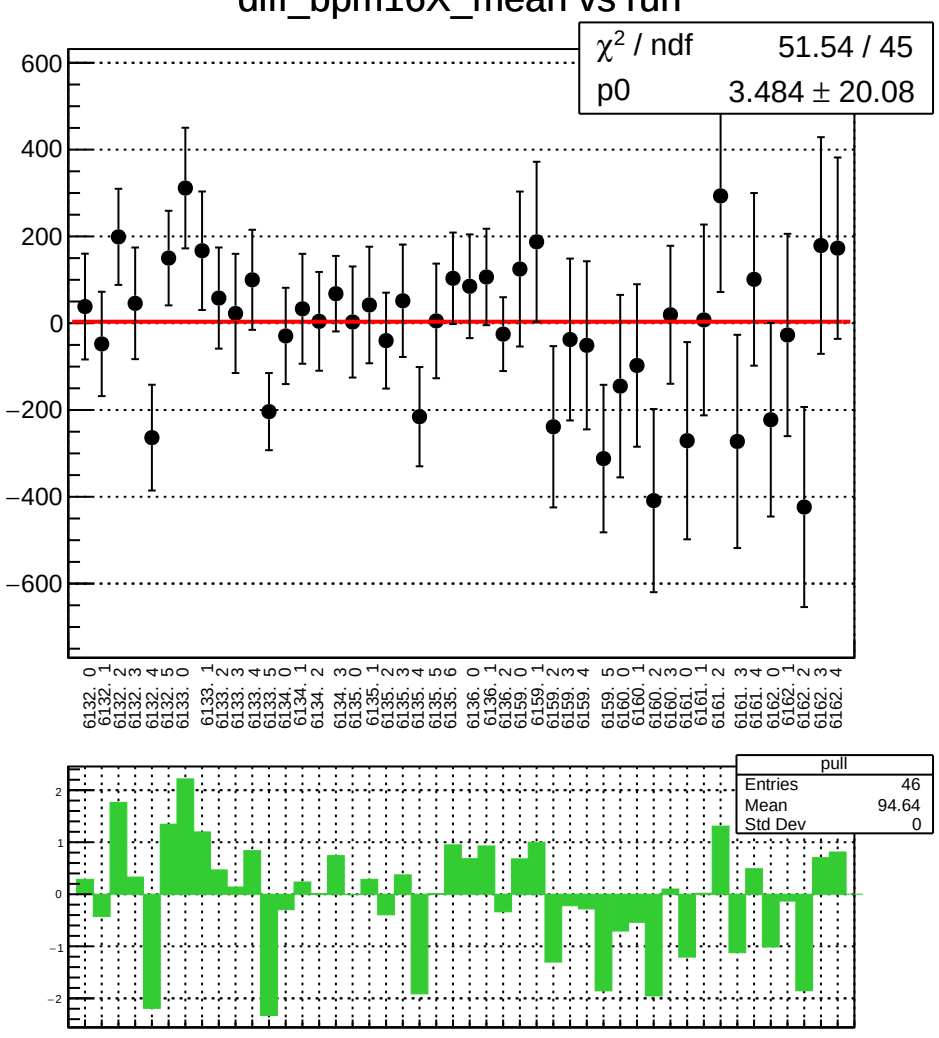

diff_bpm12X_mean vs run
χ² / ndf 50.02 / 45
p0 31.37 ± 49.32
pull
Entries 46
Mean 101.8
Std Dev 0

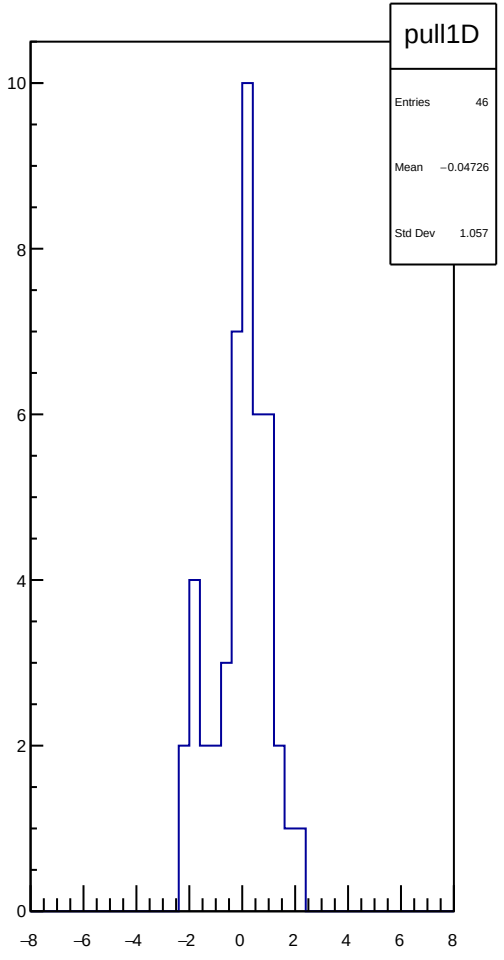

pull1D
Entries 46
Mean −0.0579
Std Dev 1.041

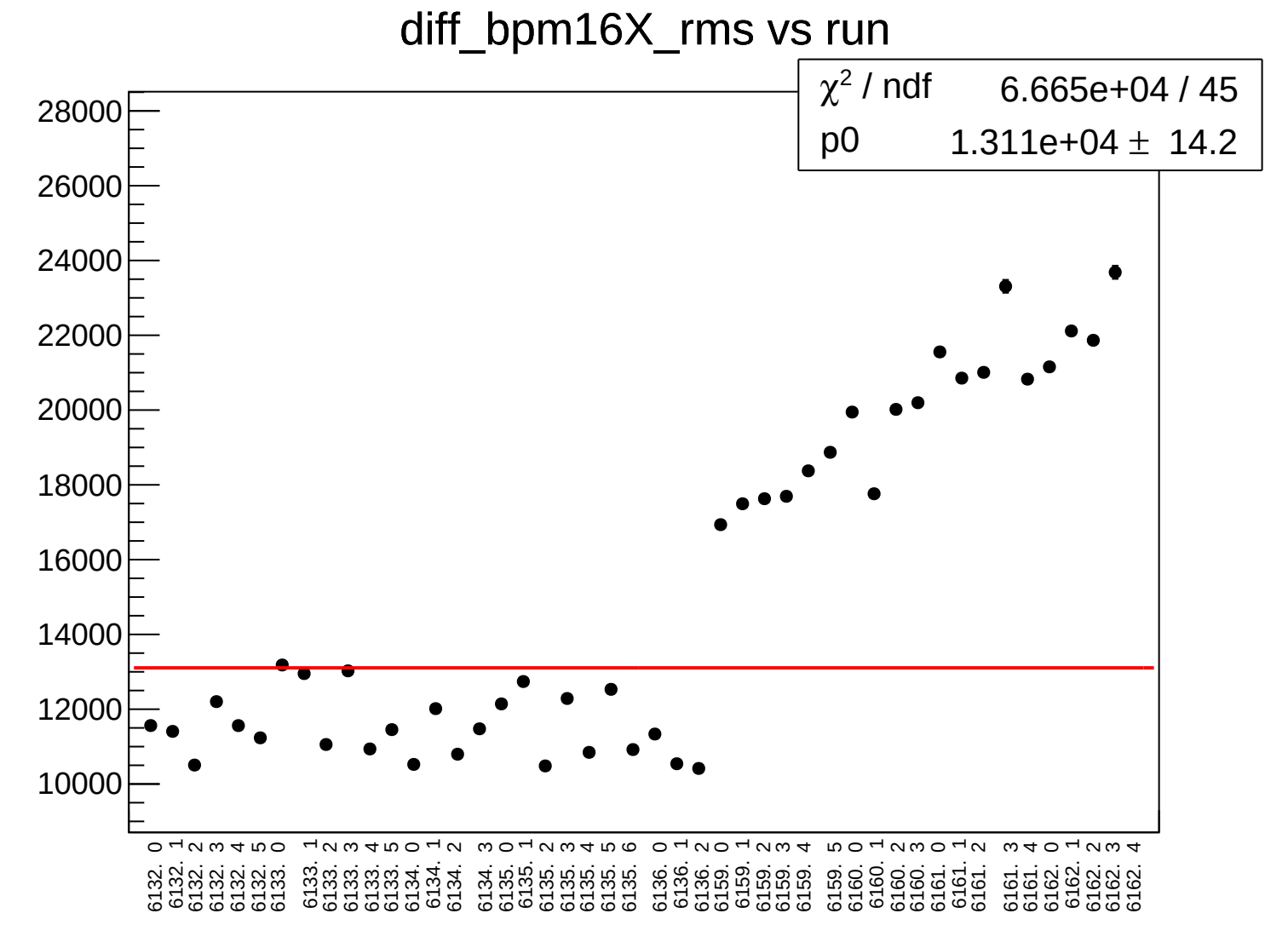

diff_bpm12X_rms vs run
χ² / ndf 5.45e+04 / 45
p0 3.241e+04 ± 34.87
65000
60000
55000
50000
45000
40000
35000
30000
25000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

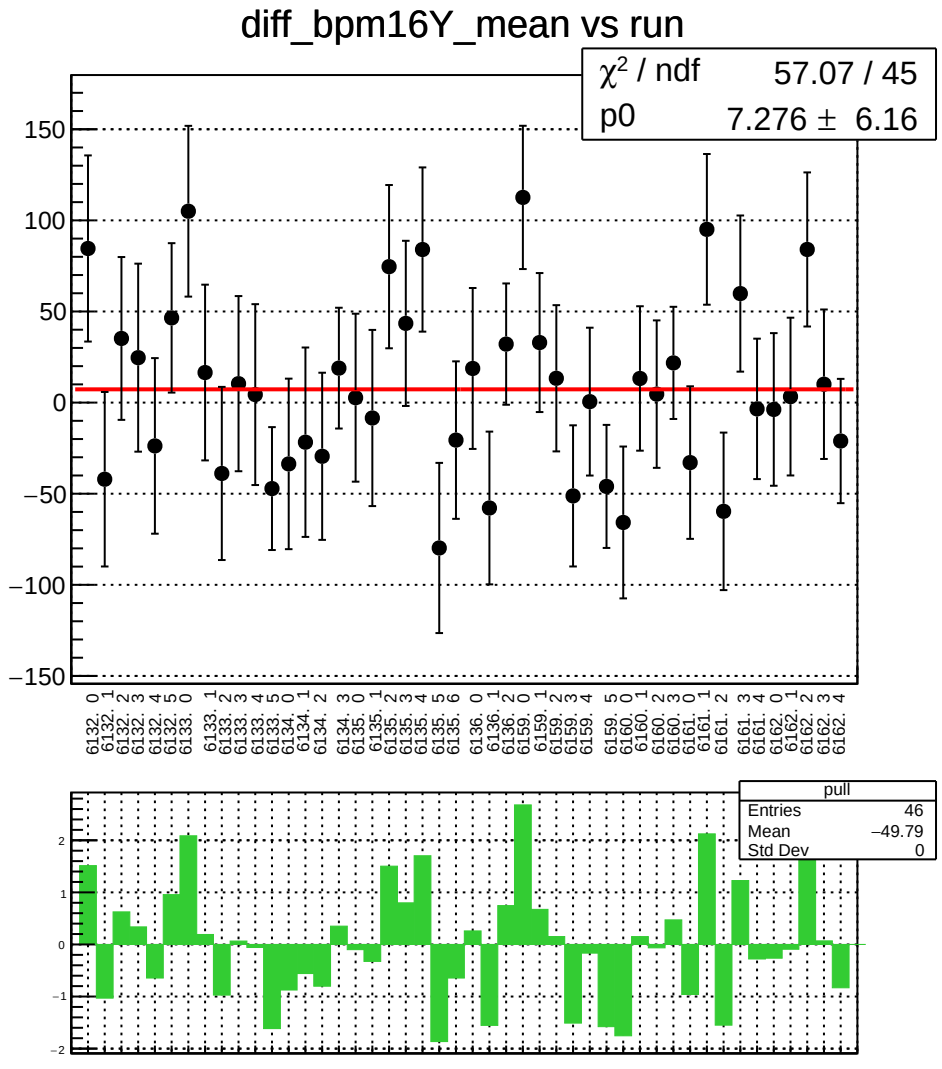

diff_bpm12Y_mean vs run
χ² / ndf 33.12 / 45
p0 1.386 ± 7.561
200
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 45.23
Std Dev 16.62
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.03097
Std Dev 0.8479
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

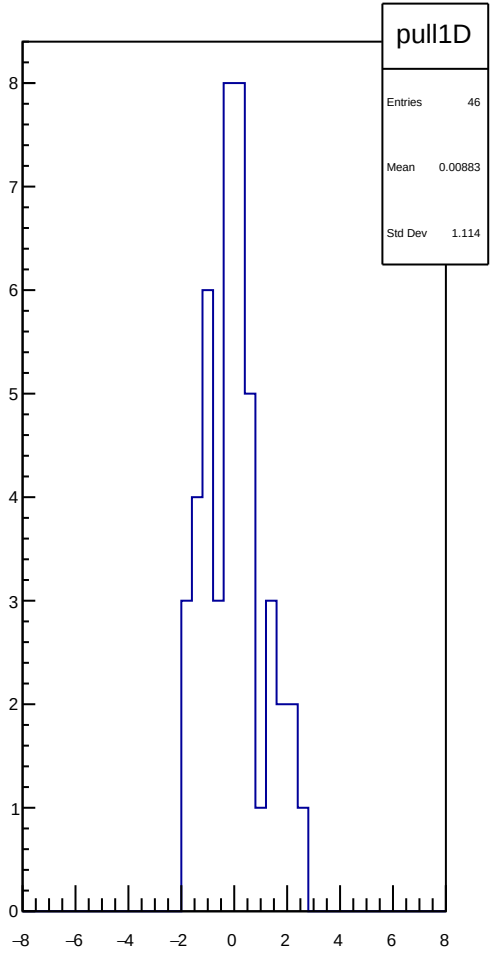

diff_bpm12Y_rms vs run
χ^2 / ndf 1.272e+04 / 45
p0 5087 ± 5.346
9000
8000
7000
6000
5000
4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

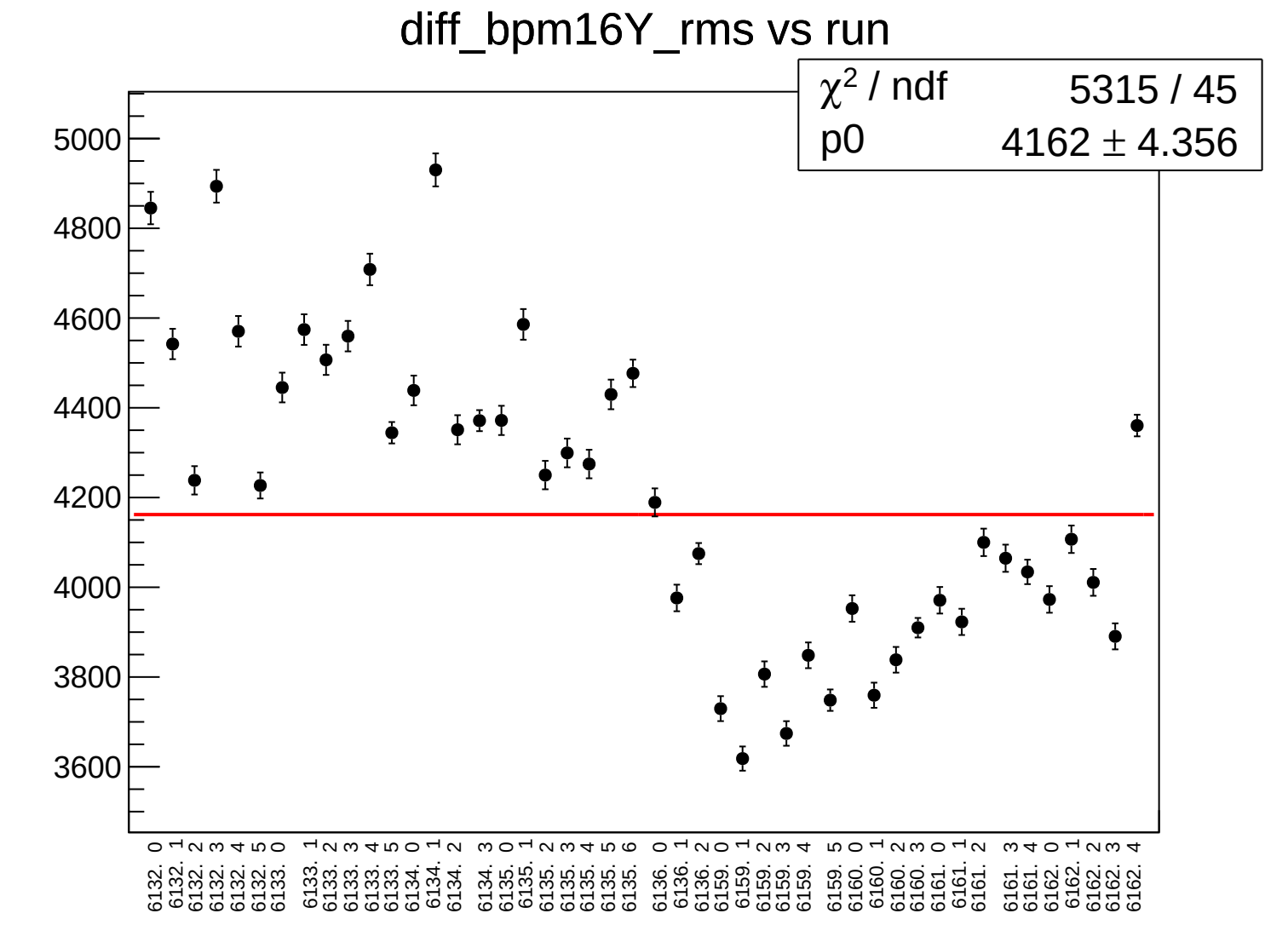

diff_bpm16X_mean vs run
χ² / ndf 51.54 / 45
p0 3.484 ± 20.08
pull
Entries 46
Mean 94.64
Std Dev 0

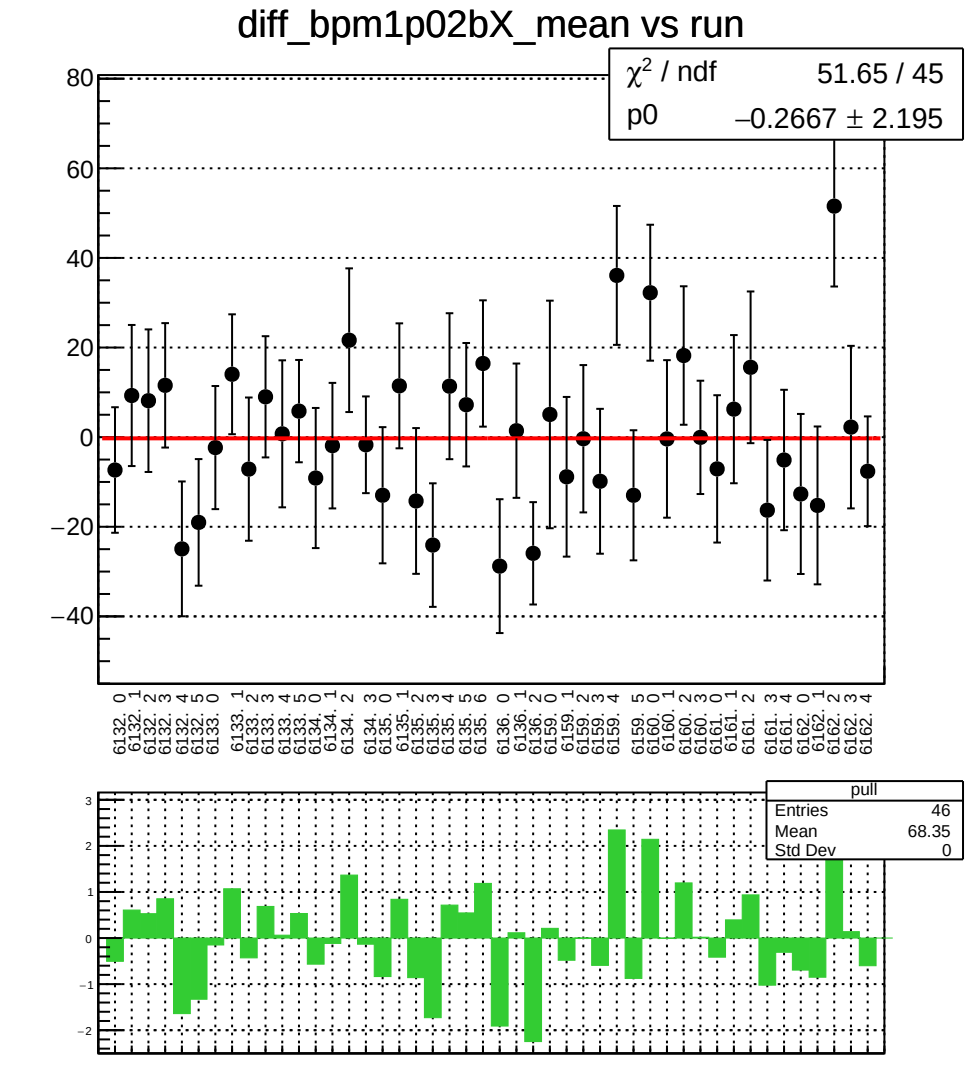

pull1D
Entries 46
Mean −0.04726
Std Dev 1.057

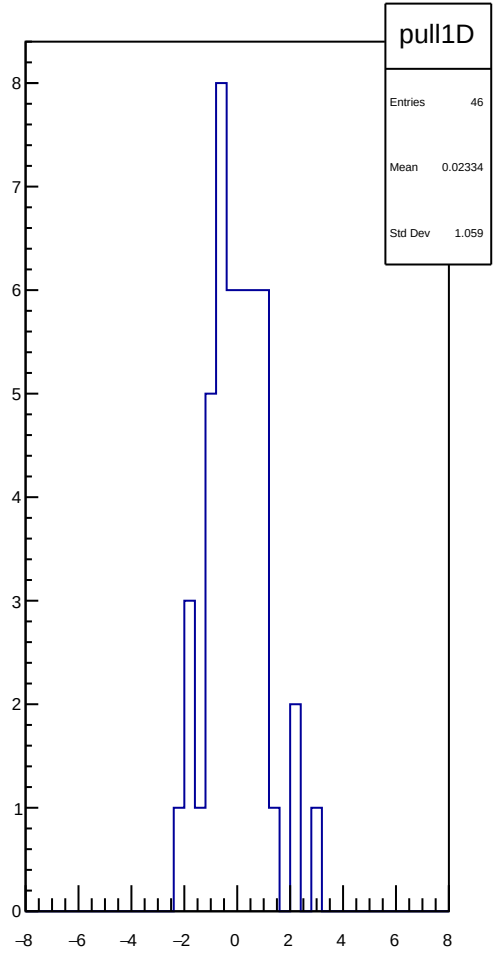

diff_bpm16X_rms vs run
χ² / ndf 6.665e+04 / 45
p0 1.311e+04 ± 14.2
28000
26000
24000
22000
20000
18000
16000
14000
12000
10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

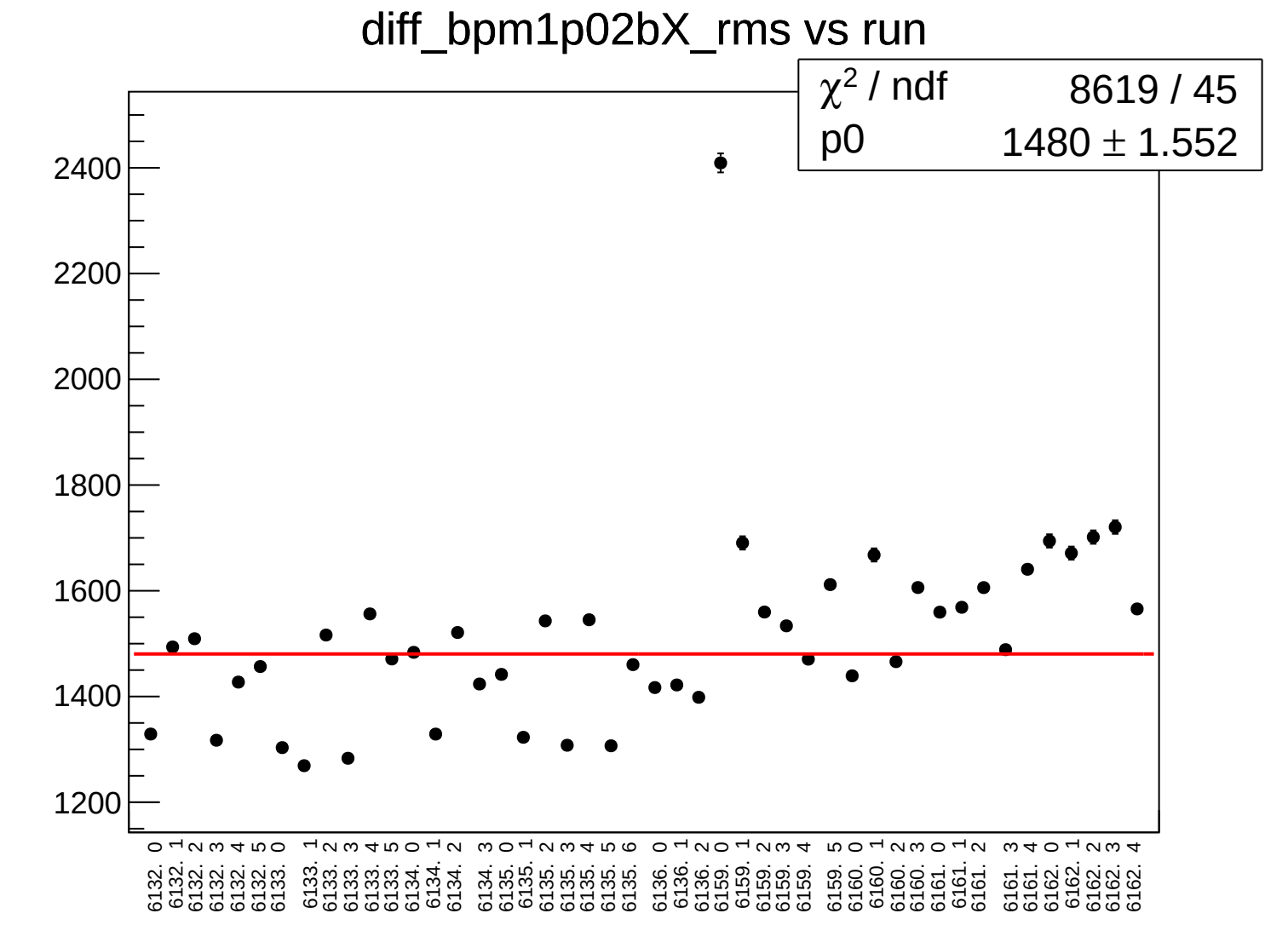

diff_bpm16Y_mean vs run
χ² / ndf 57.07 / 45
p0 7.276 ± 6.16
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −49.79
Std Dev 0
2
1
0
−1
−2

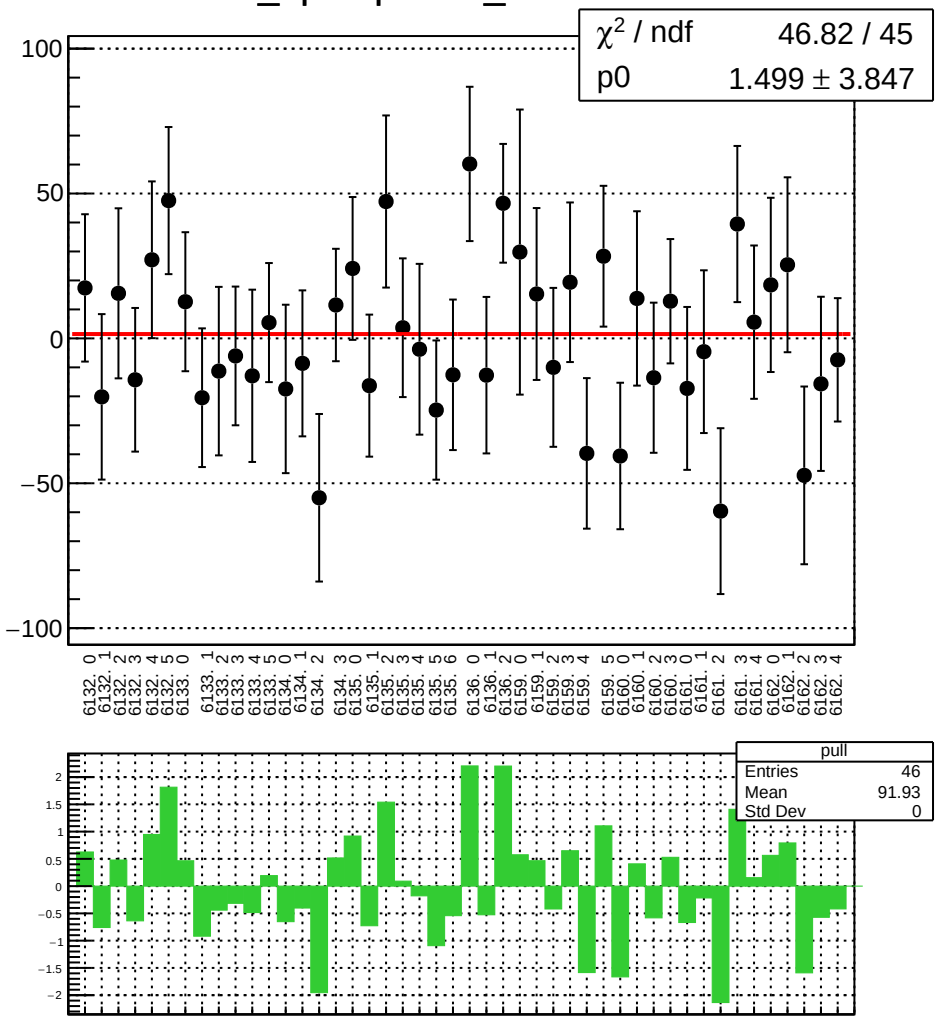

pull1D
Entries 46
Mean 0.00883
Std Dev 1.114
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

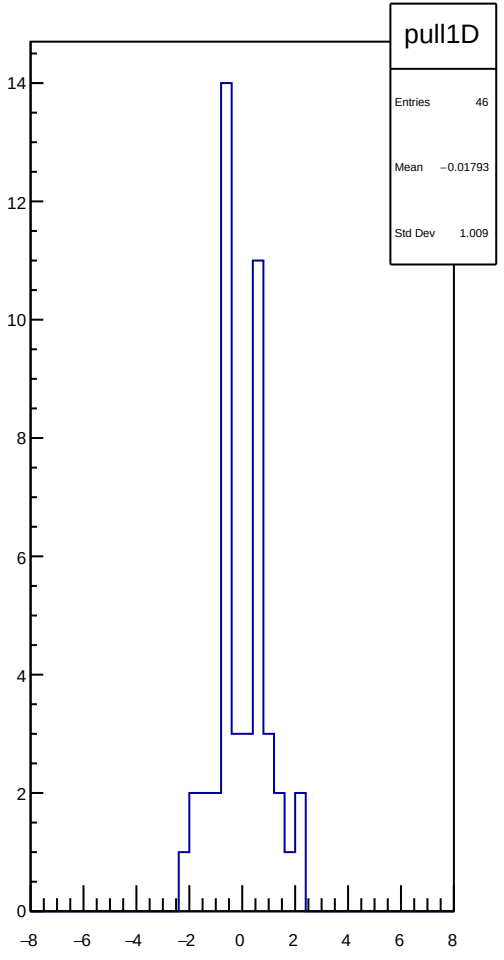

diff_bpm16Y_rms vs run
χ² / ndf 5315 / 45
p0 4162 ± 4.356
5000
4800
4600
4400
4200
4000
3800
3600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

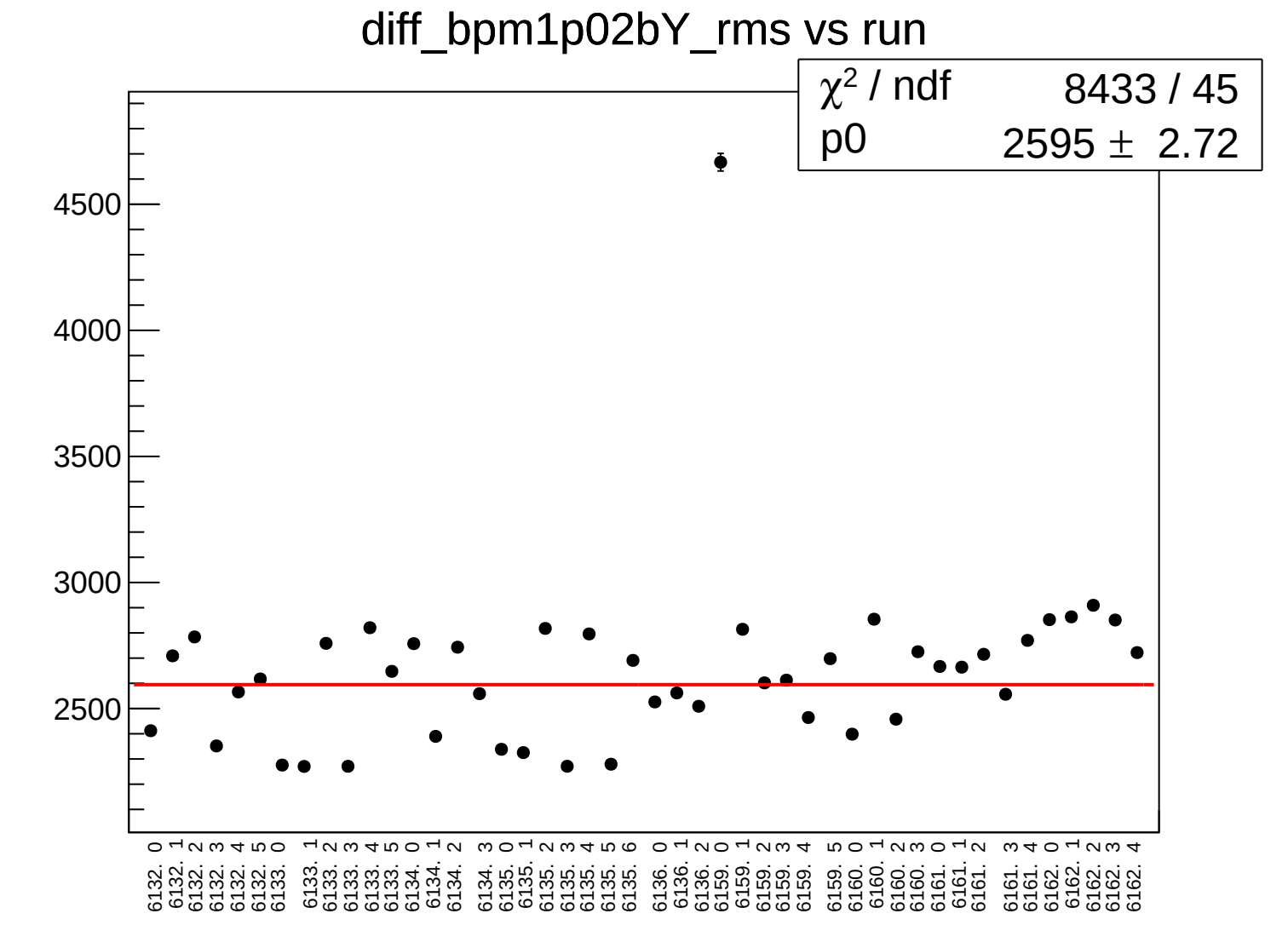

diff_bpm1p02bX_mean vs run
χ² / ndf 51.65 / 45
p0 −0.2667 ± 2.195
pull
Entries 46
Mean 68.35
Std Dev 0

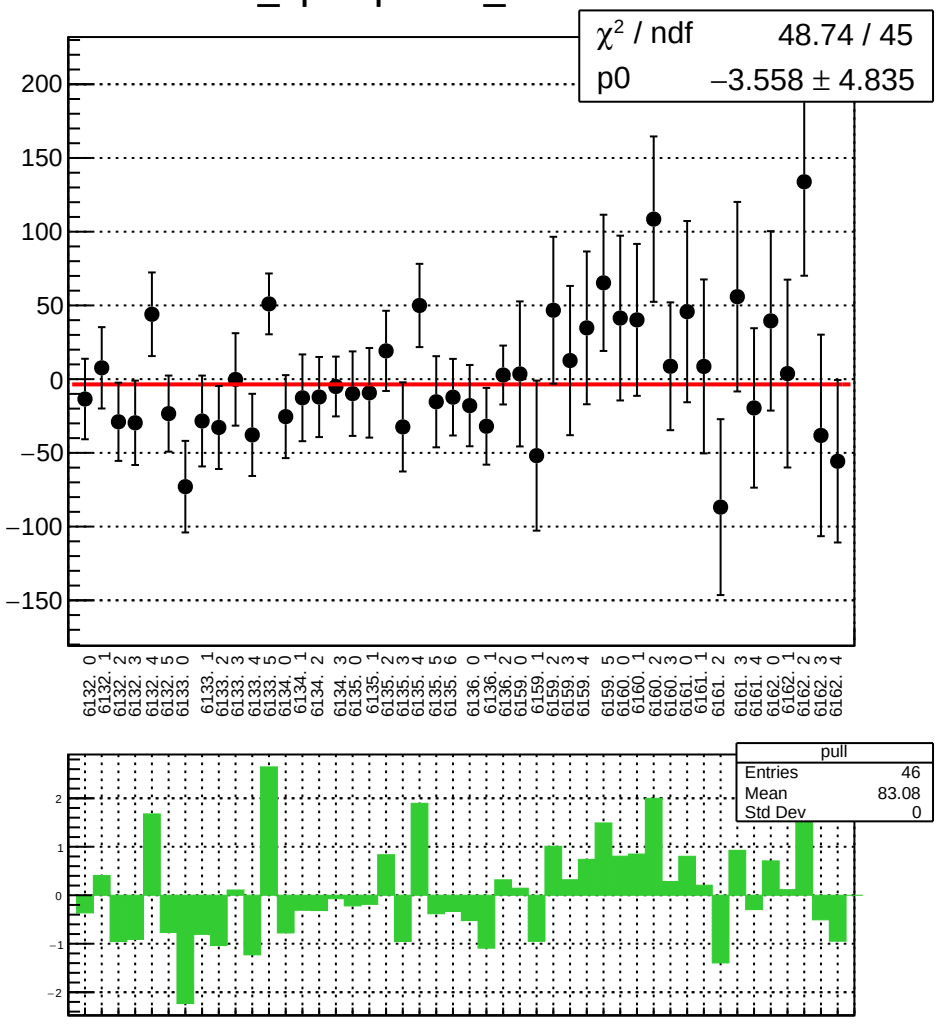

pull1D
Entries 46
Mean 0.02334
Std Dev 1.059

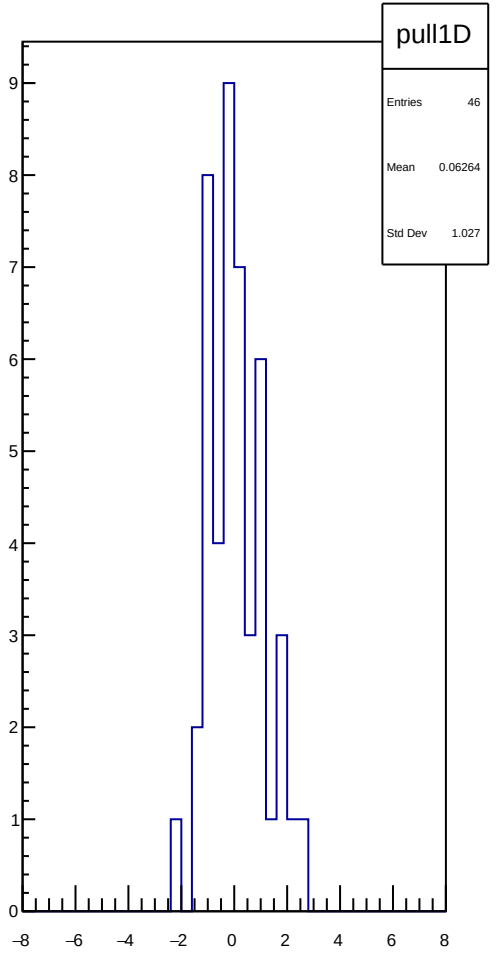

diff_bpm1p02bX_rms vs run
χ² / ndf 8619 / 45
p0 1480 ± 1.552
2400
2200
2000
1800
1600
1400
1200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

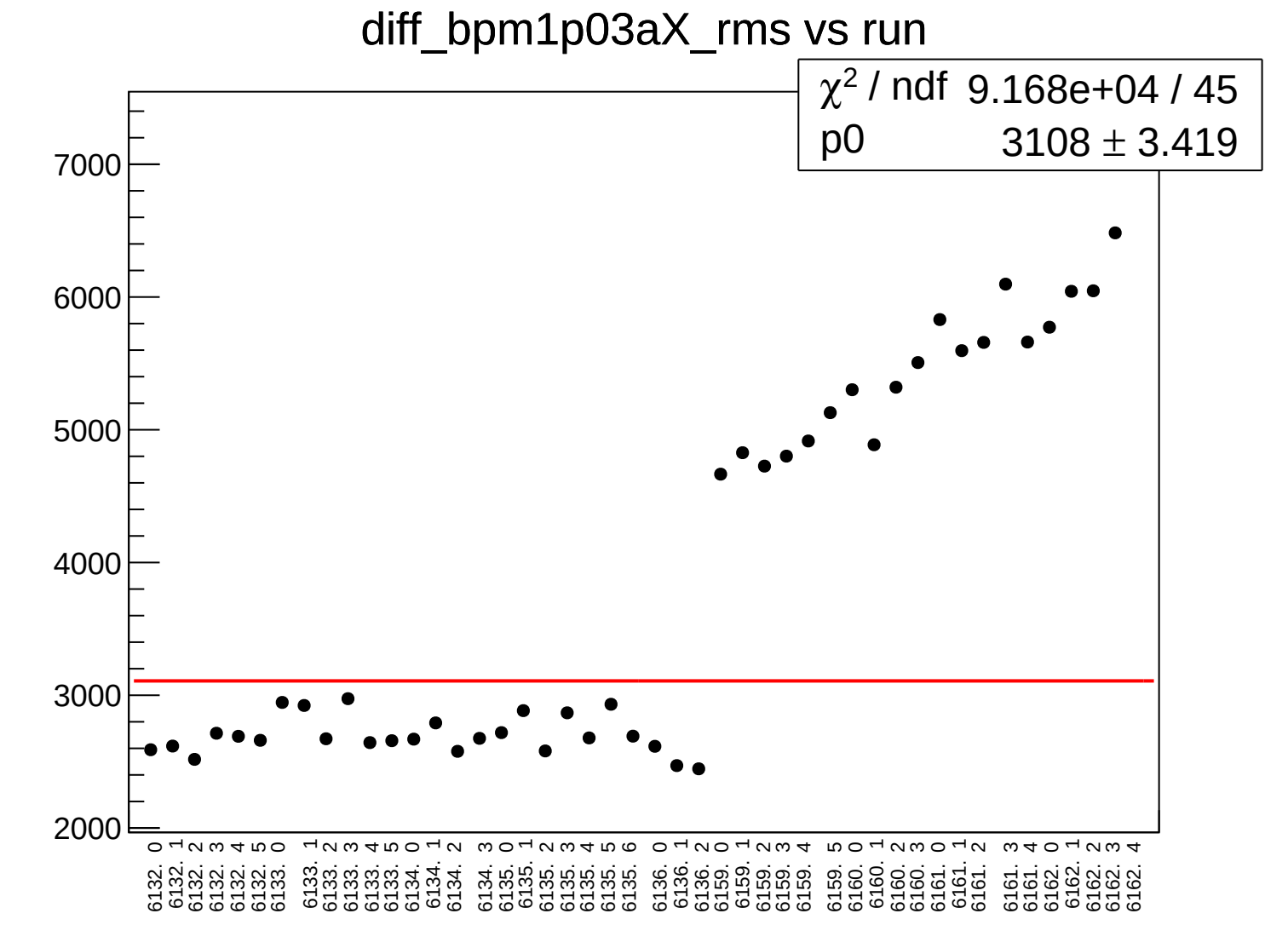

diff_bpm1p02bY_mean vs run
χ² / ndf 46.82 / 45
p0 1.499 ± 3.847
pull
Entries 46
Mean 91.93
Std Dev 0

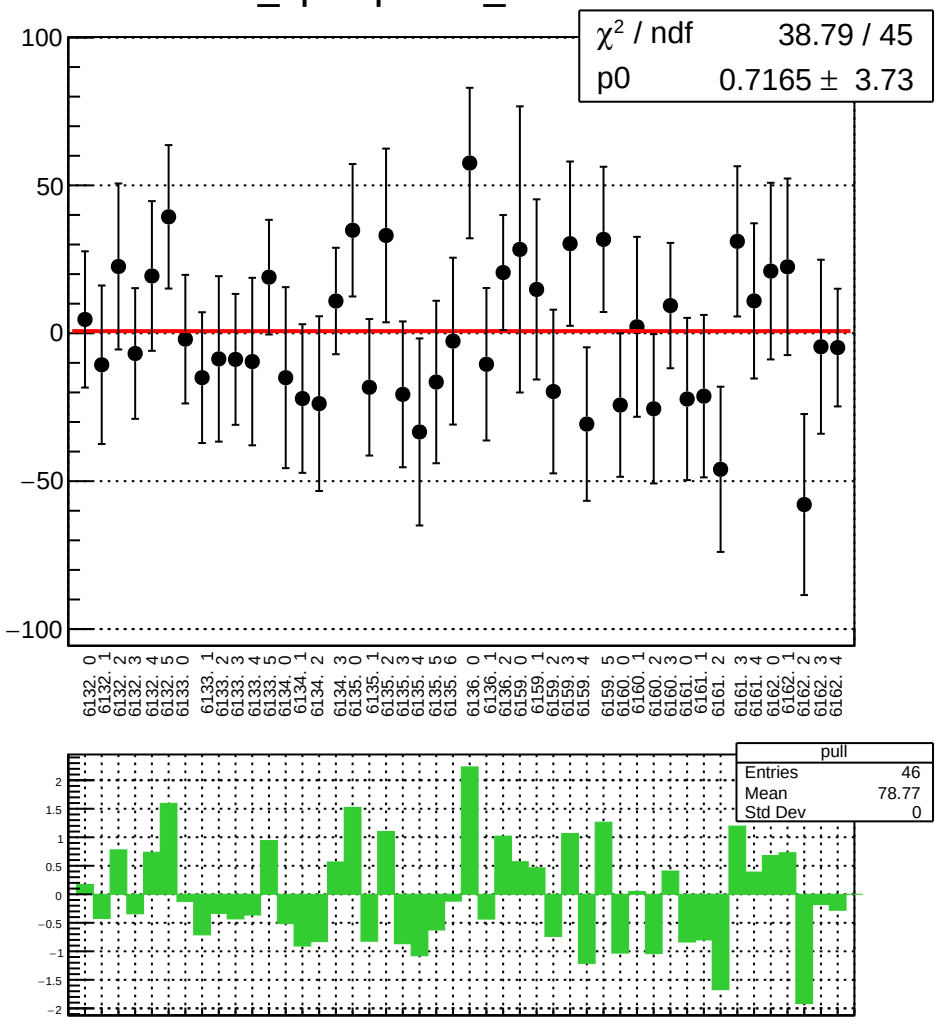

pull1D
Entries 46
Mean −0.01793
Std Dev 1.009

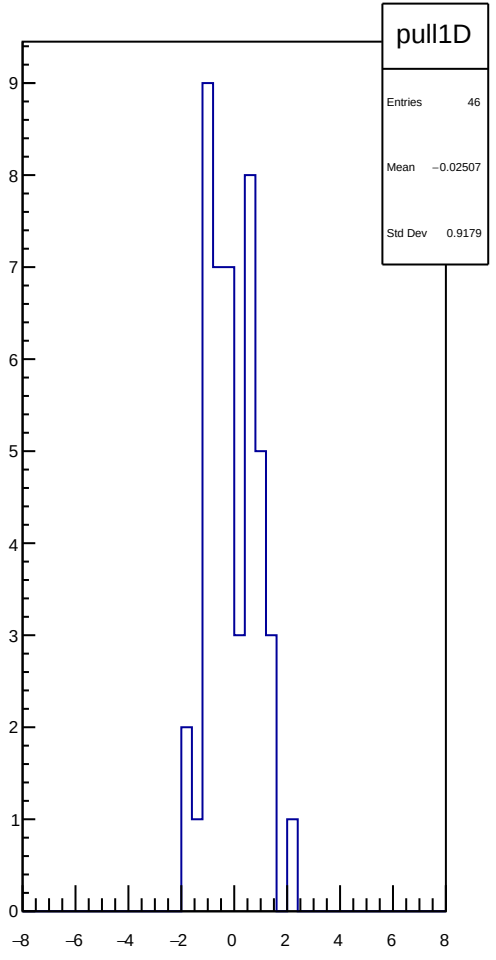

diff_bpm1p02bY_rms vs run
χ² / ndf 8433 / 45
p0 2595 ± 2.72
4500
4000
3500
3000
2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

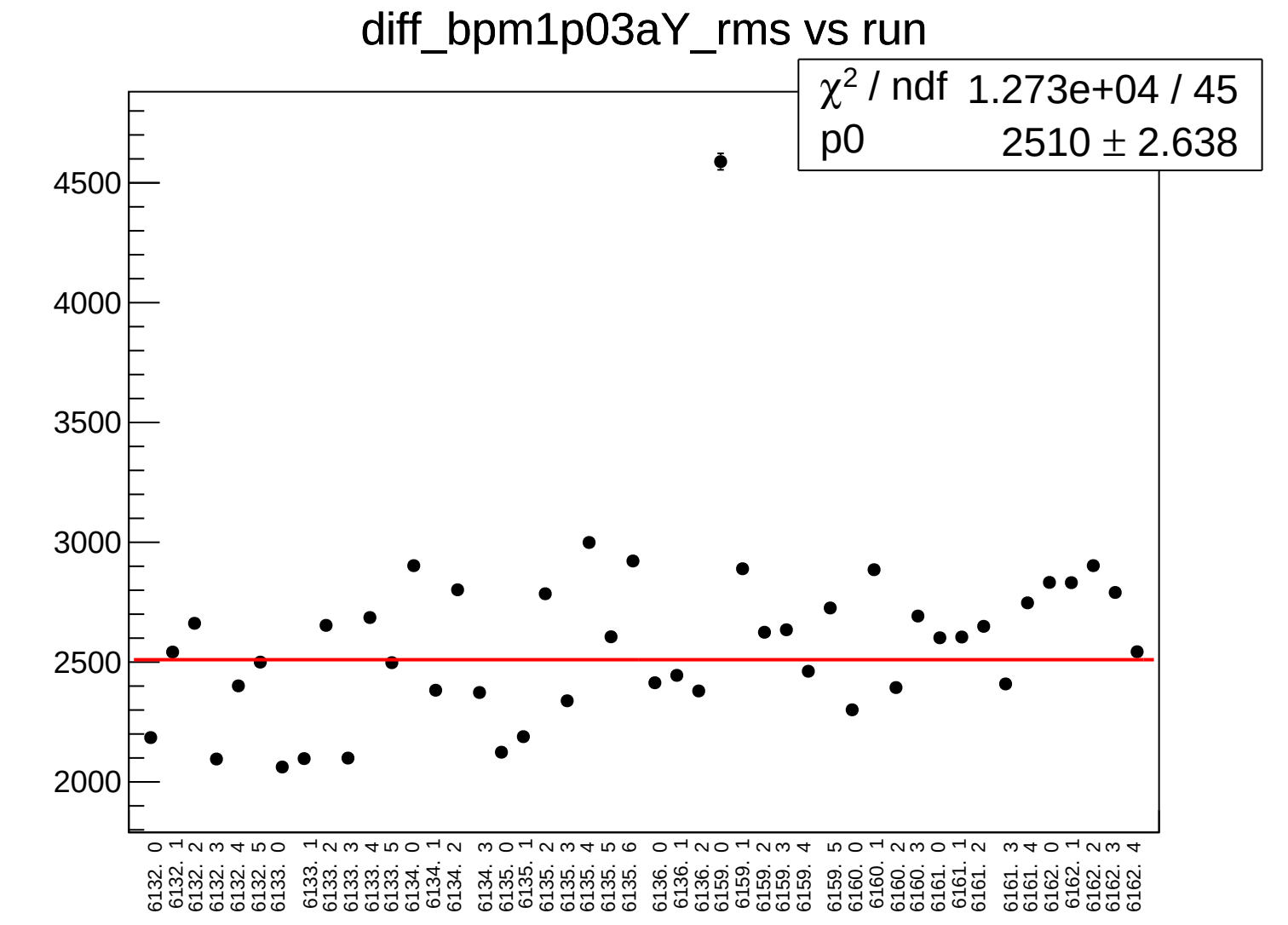

diff_bpm1p03aX_mean vs run
χ² / ndf 48.74 / 45
p0 −3.558 ± 4.835
pull
Entries 46
Mean 83.08
Std Dev 0

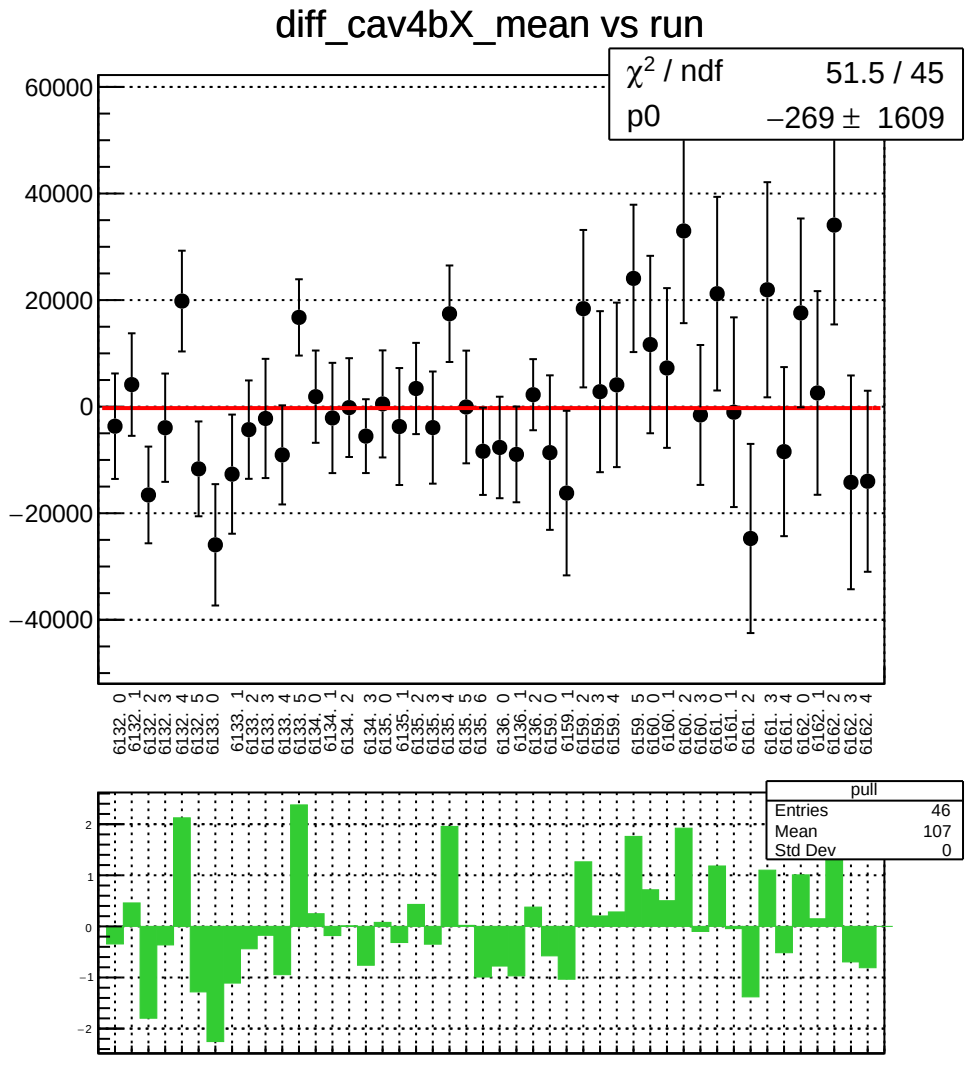

pull1D
Entries 46
Mean 0.06264
Std Dev 1.027

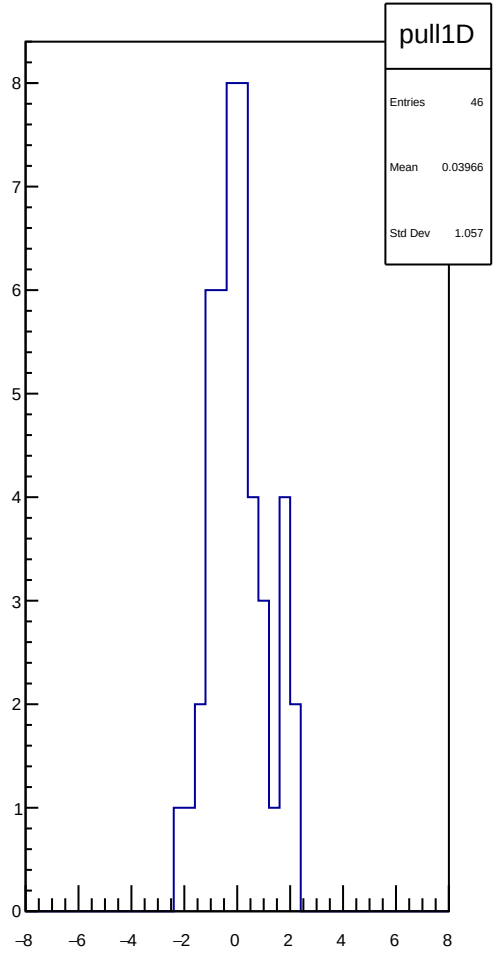

diff_bpm1p03aX_rms vs run
χ² / ndf 9.168e+04 / 45
p0 3108 ± 3.419
7000
6000
5000
4000
3000
2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

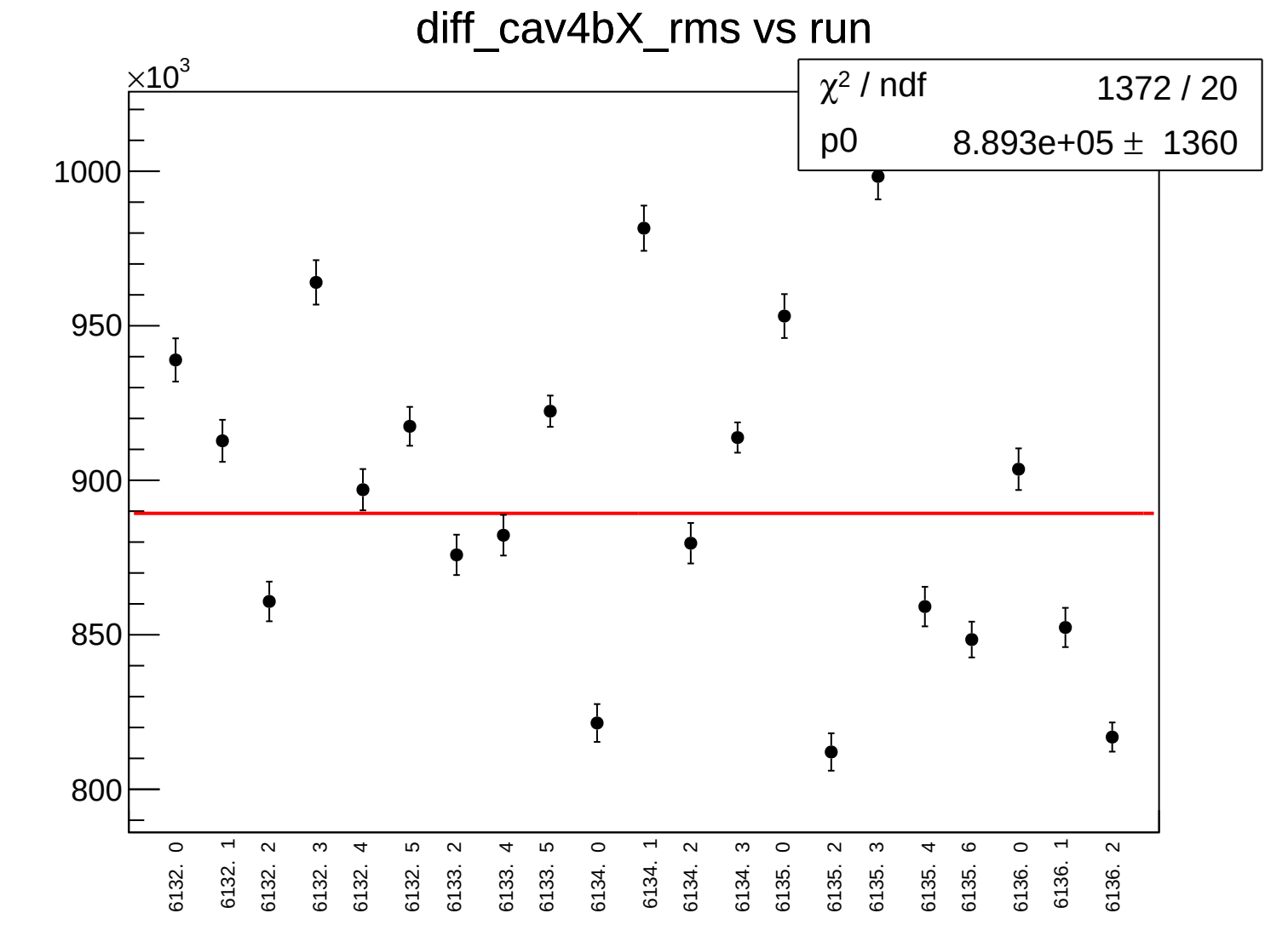

diff_bpm1p03aY_mean vs run
χ² / ndf 38.79 / 45
p0 0.7165 ± 3.73
pull
Entries 46
Mean 78.77
Std Dev 0

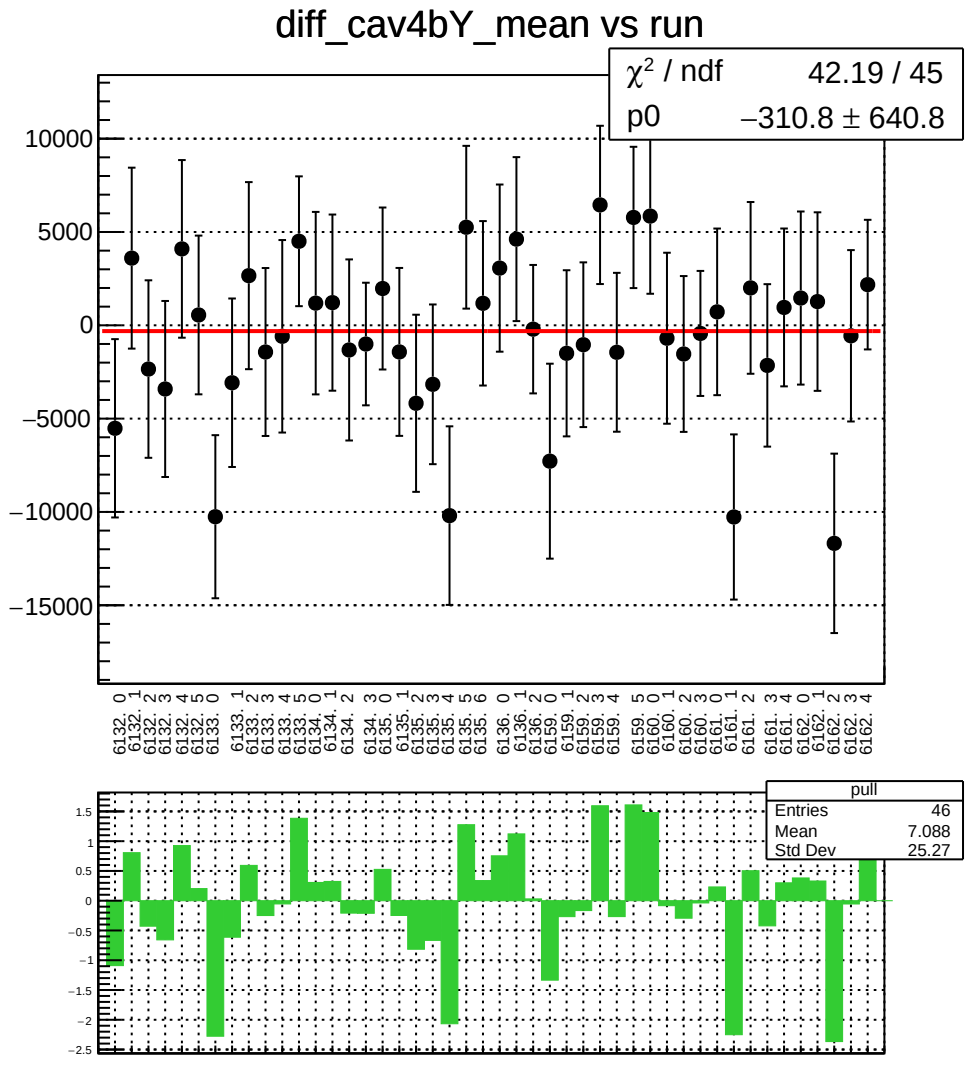

pull1D
Entries 46
Mean −0.02507
Std Dev 0.9179

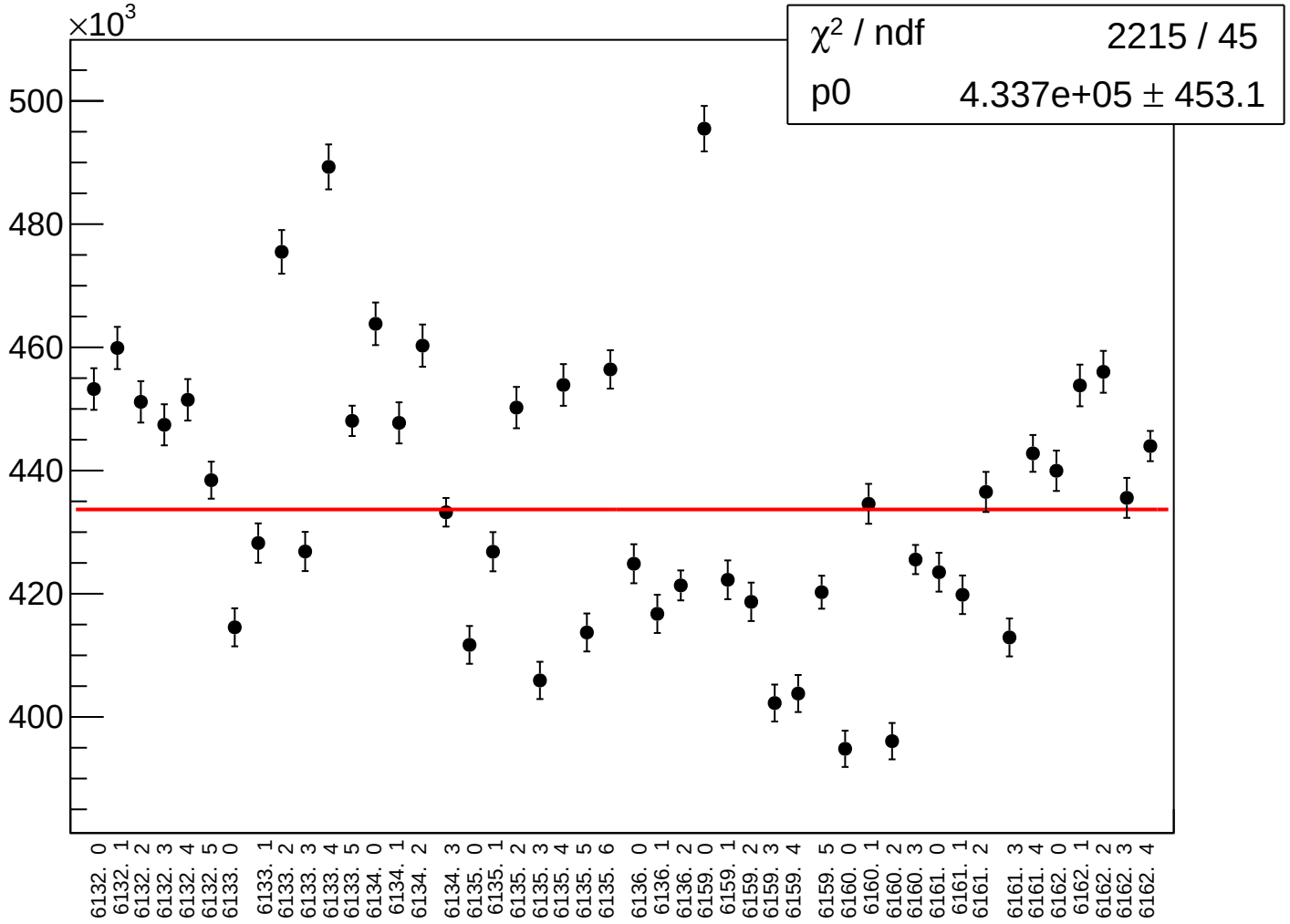

diff_bpm1p03aY_rms vs run
χ² / ndf 1.273e+04 / 45
p0 2510 ± 2.638
4500
4000
3500
3000
2500
2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

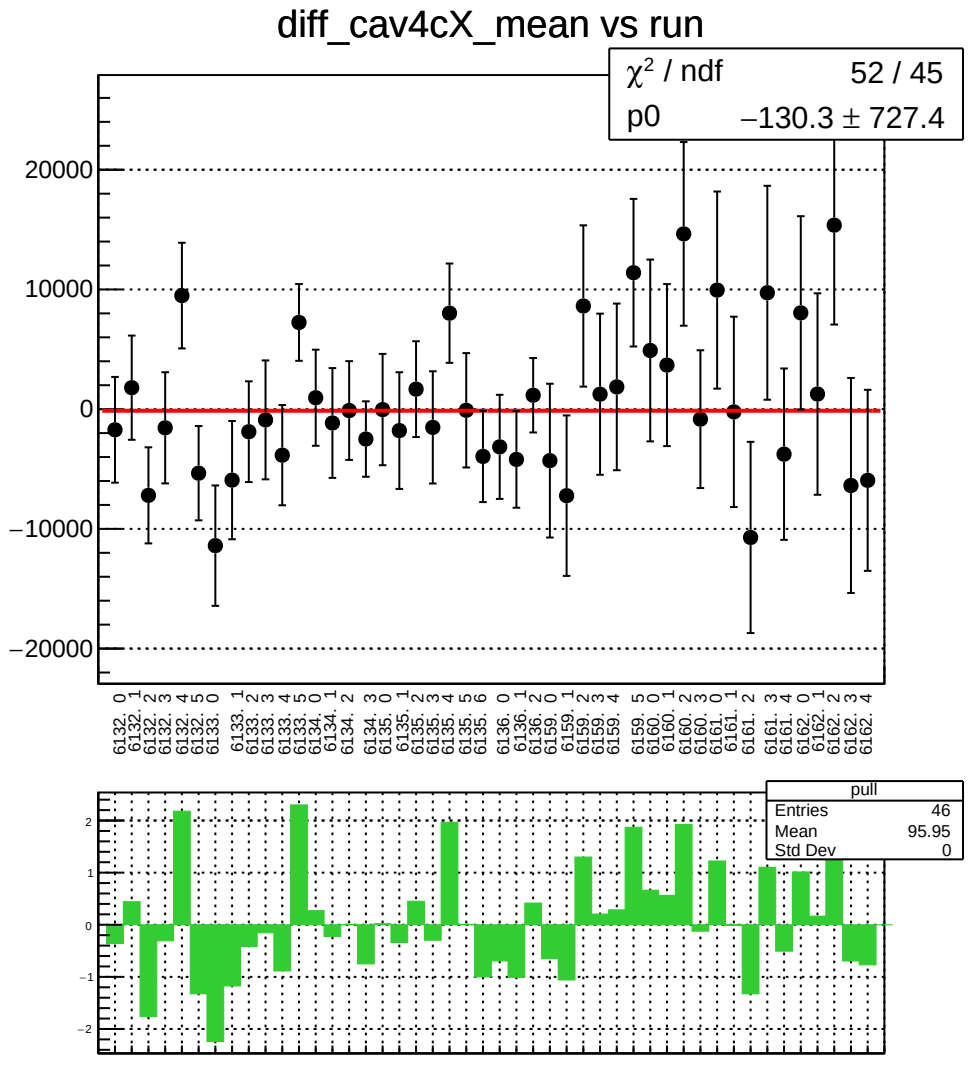

diff_cav4bX_mean vs run
χ² / ndf 51.5 / 45
p0 −269 ± 1609
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 107
Std Dev 0
2
1
0
−1
−2

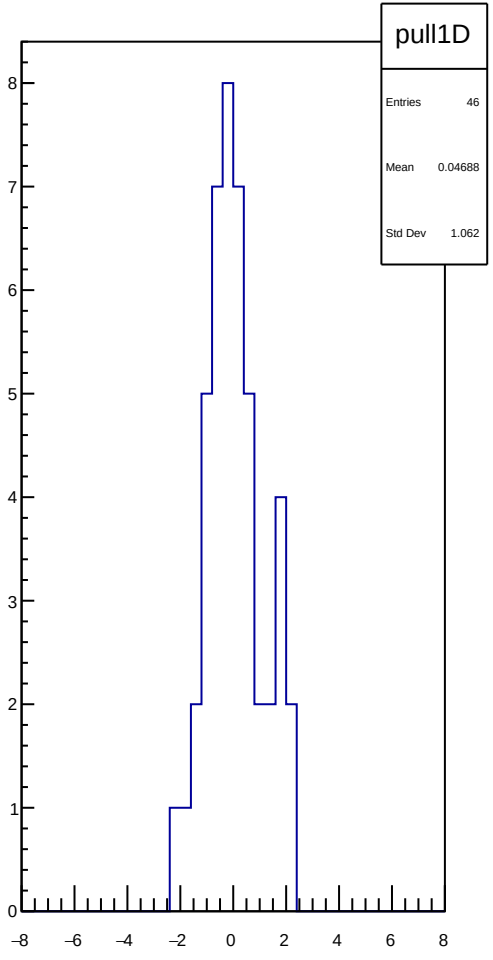

pull1D
Entries 46
Mean 0.03966
Std Dev 1.057
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

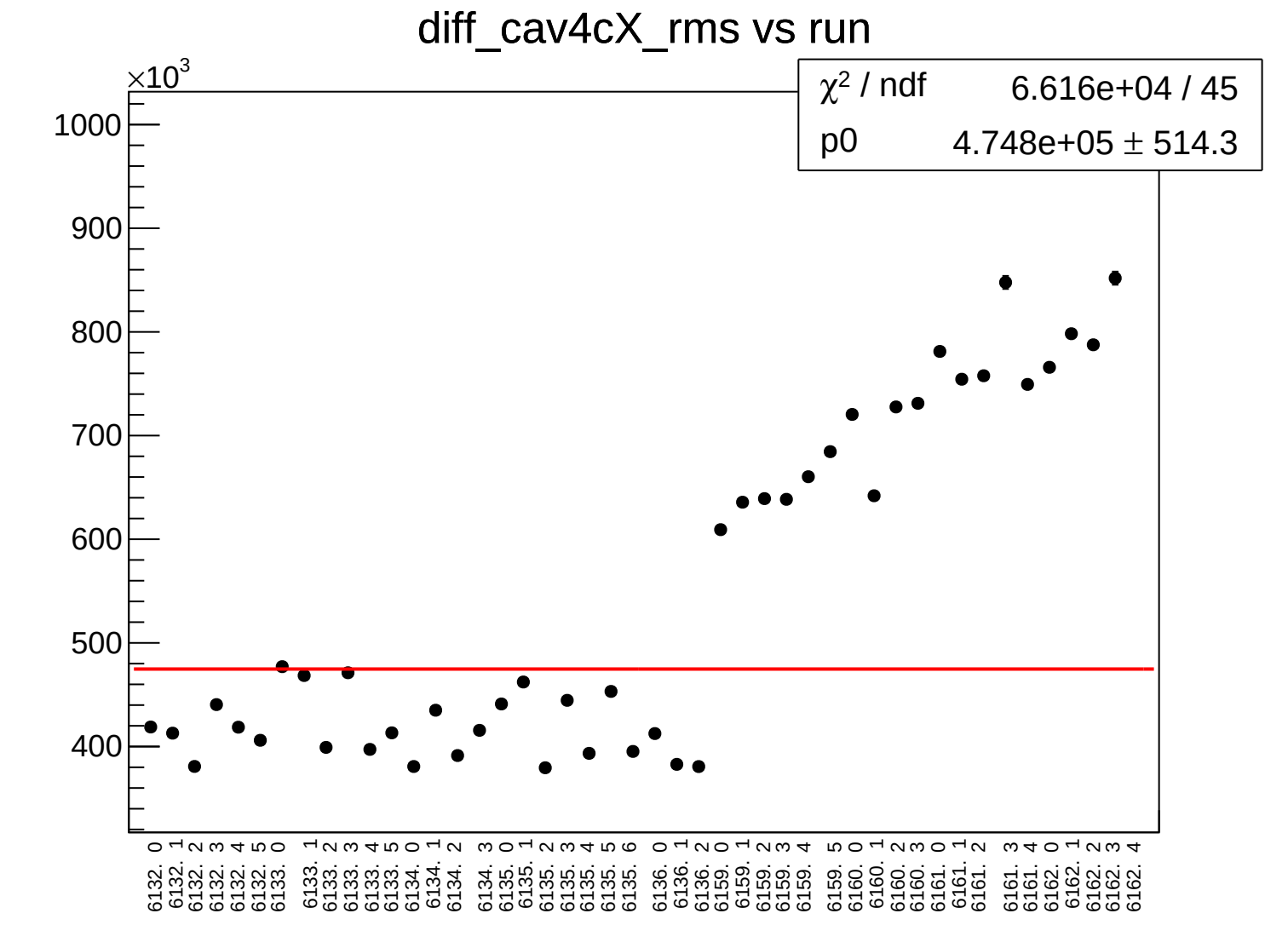

diff_cav4bX_rms vs run
×10^3
χ² / ndf 1372 / 20
p0 8.893e+05 ± 1360
1000
950
900
850
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 2
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 2
6135. 3
6135. 4
6135. 6
6136. 0
6136. 1
6136. 2

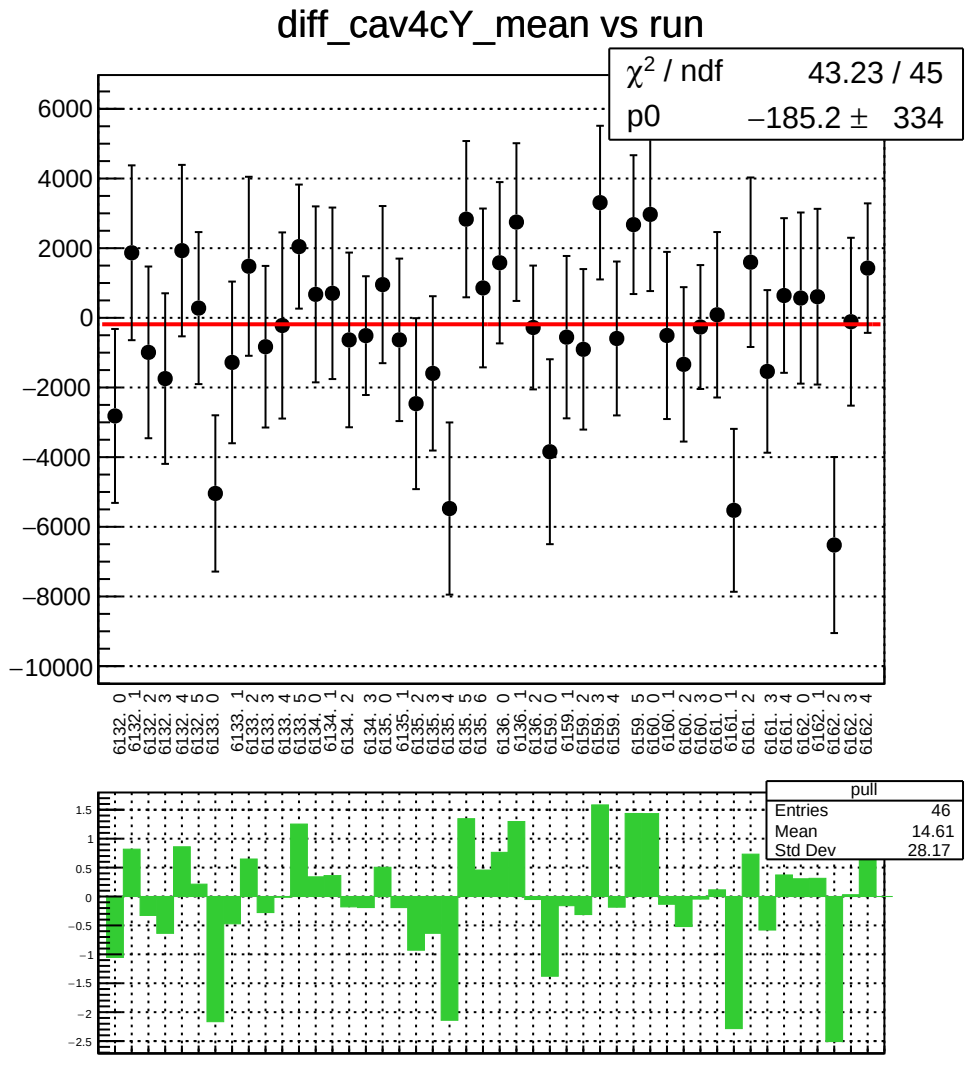

diff_cav4bY_mean vs run
χ² / ndf 42.19 / 45
p0 −310.8 ± 640.8
10000
5000
0
−5000
−10000
−15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 7.088
Std Dev 25.27
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.03011
Std Dev 0.9573
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

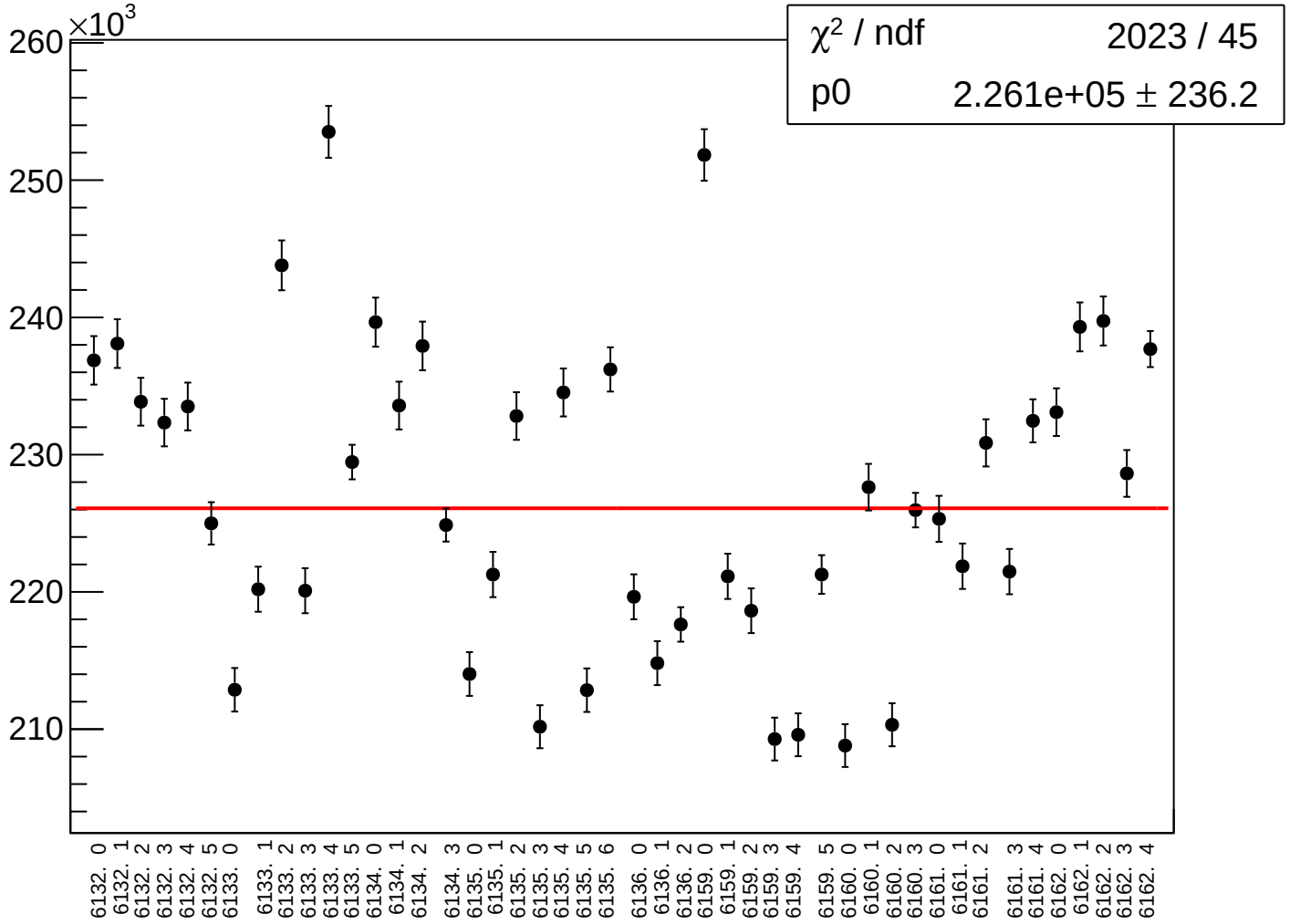

diff_cav4bY_rms vs run
×10^3
χ² / ndf 2215 / 45
p0 4.337e+05 ± 453.1
500
480
460
440
420
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

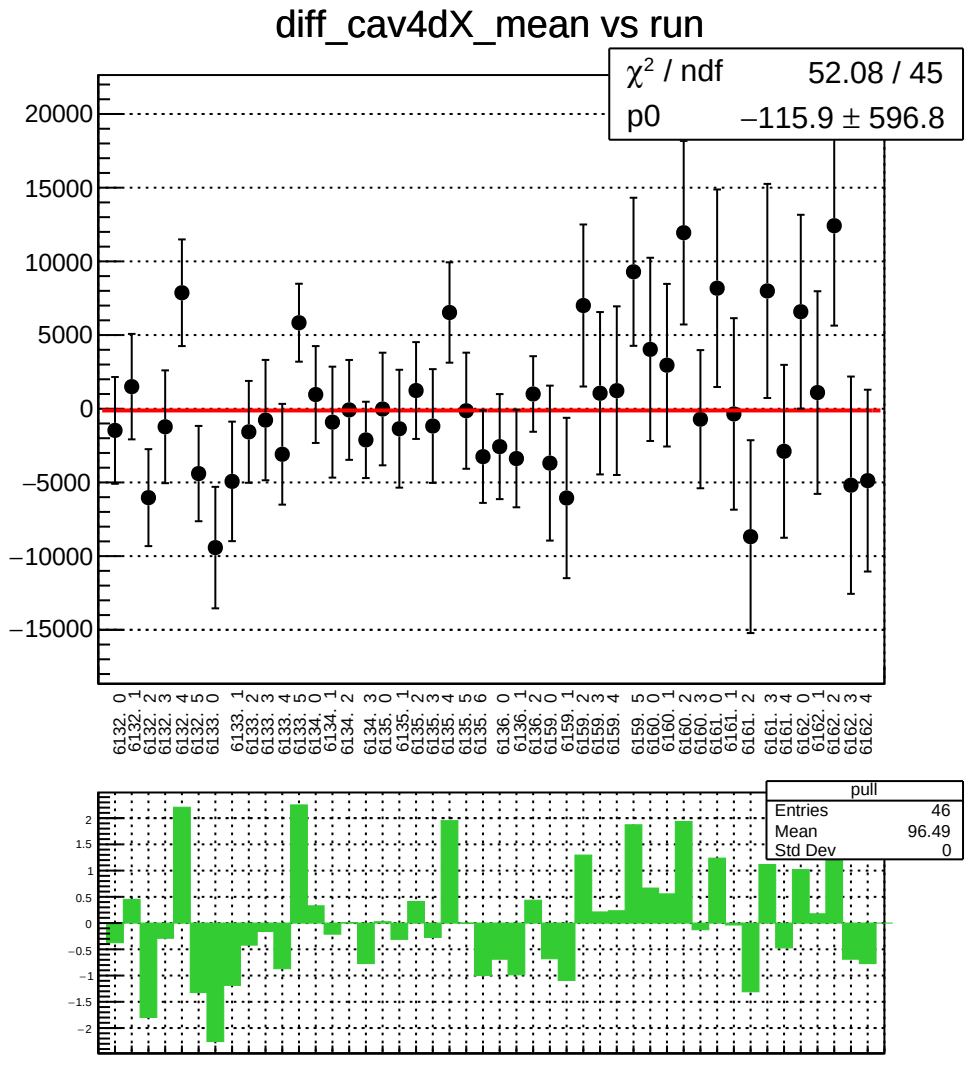

diff_cav4cX_mean vs run
χ² / ndf 52 / 45
p0 −130.3 ± 727.4
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 95.95
Std Dev 0
2
1
0
−1
−2

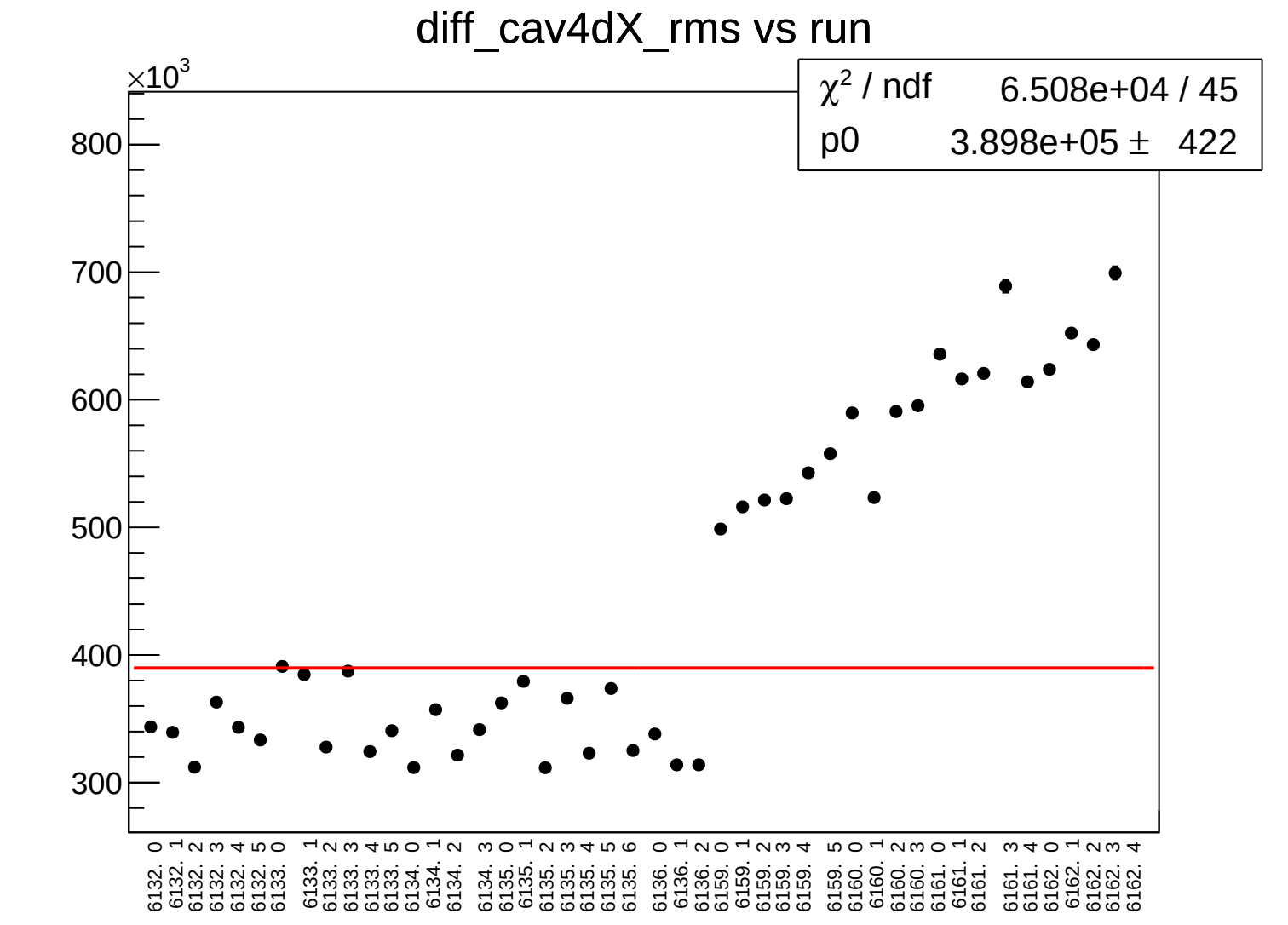

pull1D
Entries 46
Mean 0.04688
Std Dev 1.062
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

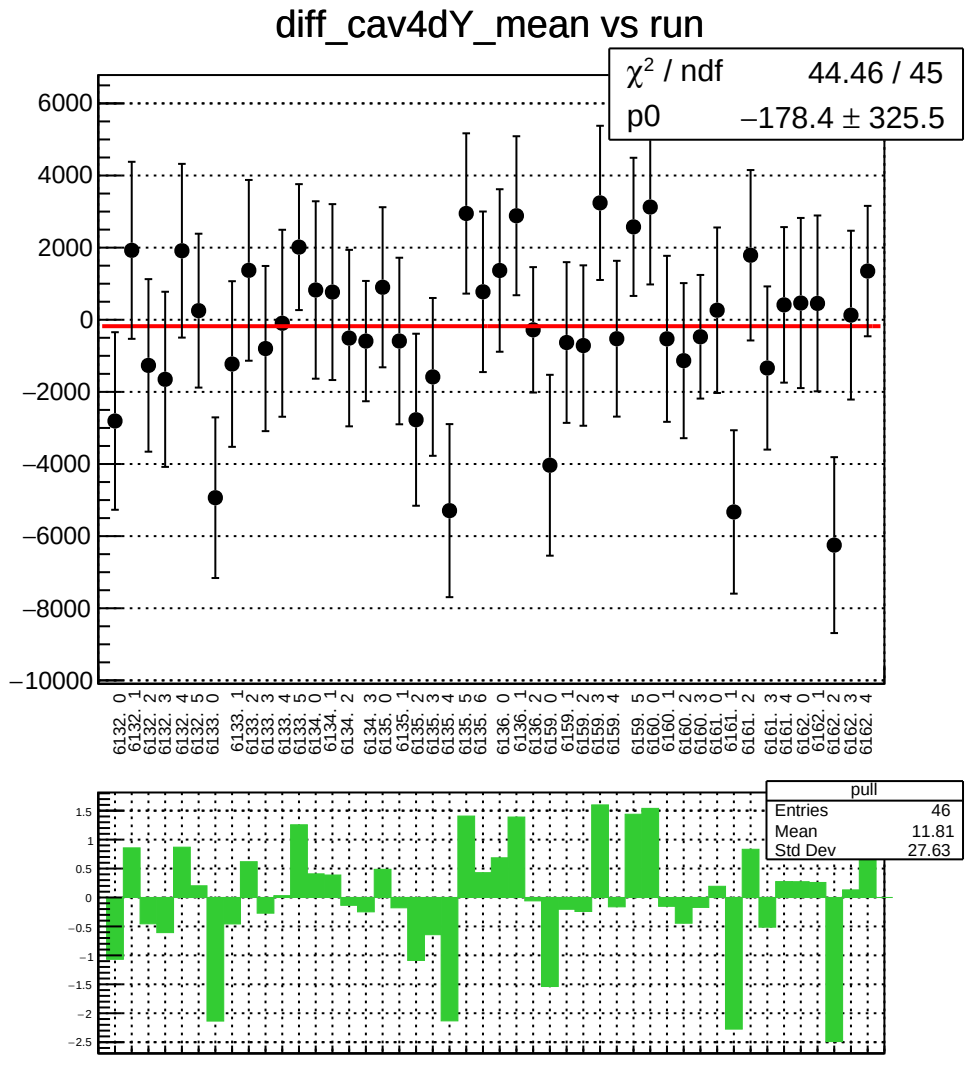

diff_cav4cX_rms vs run
×10^3
χ² / ndf 6.616e+04 / 45
p0 4.748e+05 ± 514.3
1000
900
800
700
600
500
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

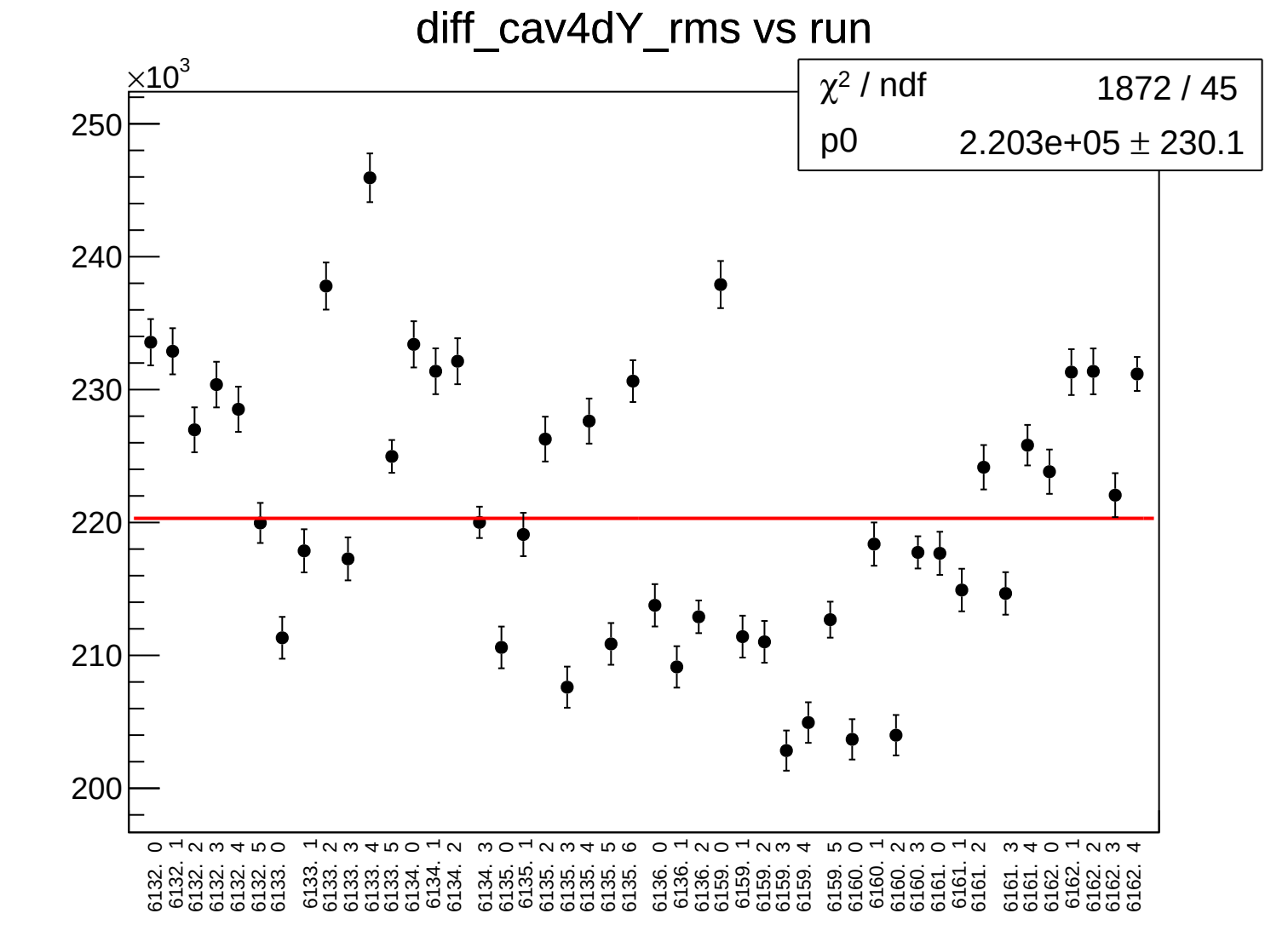

diff_cav4cY_mean vs run
χ² / ndf 43.23 / 45
p0 −185.2 ± 334
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 14.61
Std Dev 28.17
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.02855
Std Dev 0.969
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

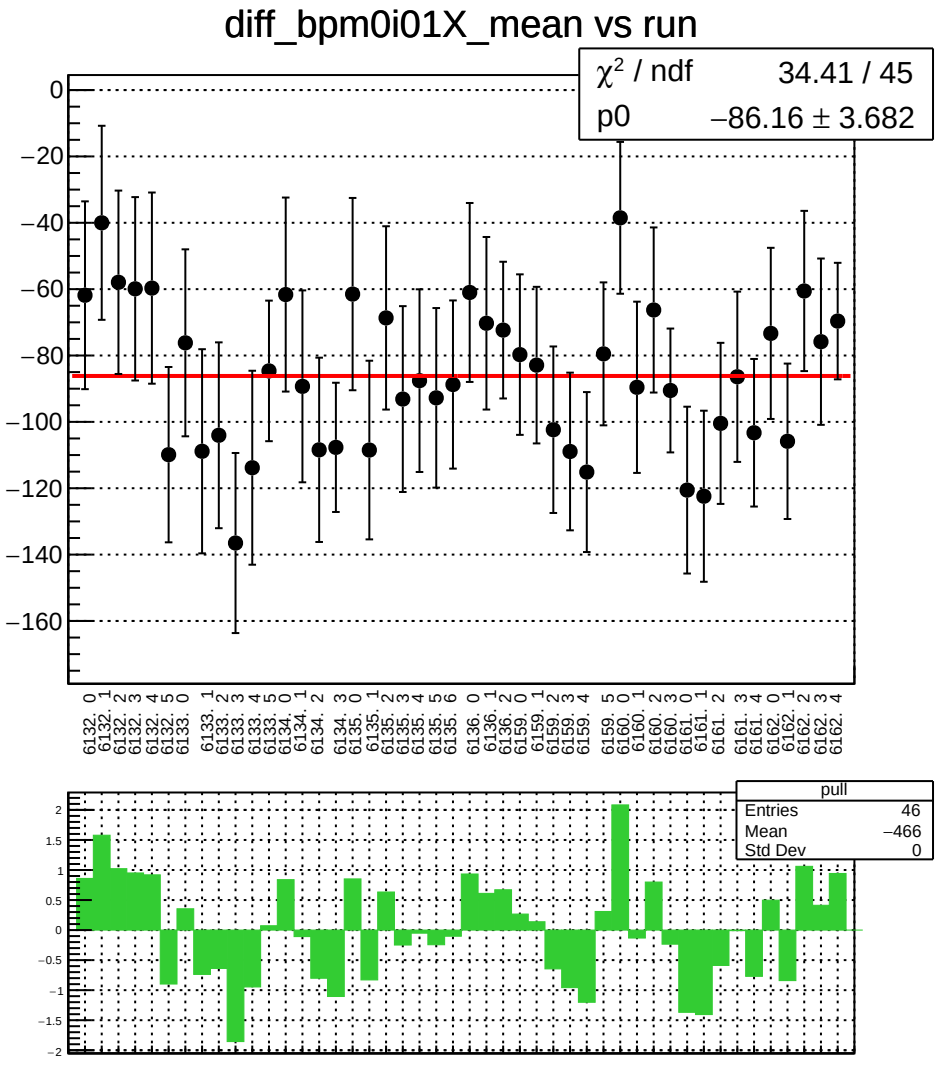

diff_cav4cY_rms vs run
χ² / ndf 2023 / 45
p0 2.261e+05 ± 236.2
×10³
260
250
240
230
220
210
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

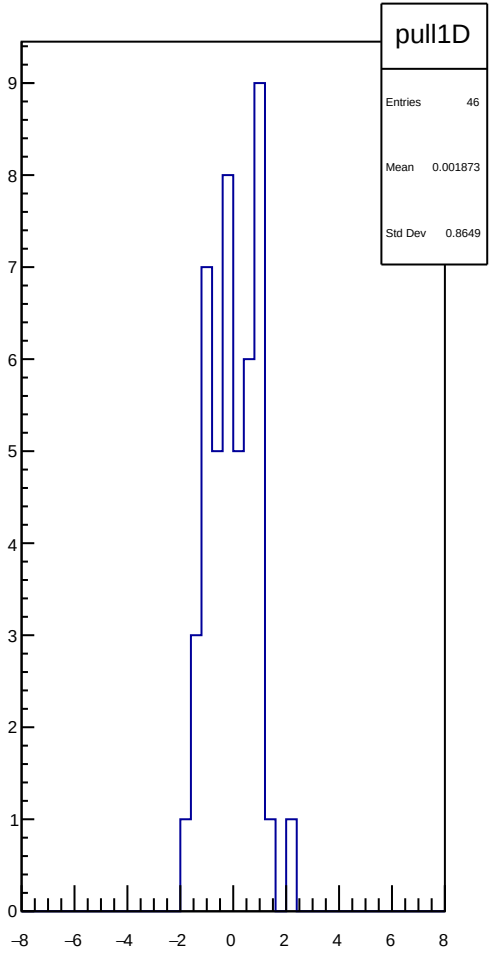

diff_cav4dX_mean vs run
χ² / ndf 52.08 / 45
p0 −115.9 ± 596.8
20000
15000
10000
5000
0
−5000
−10000
−15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 96.49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.04675
Std Dev 1.063
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

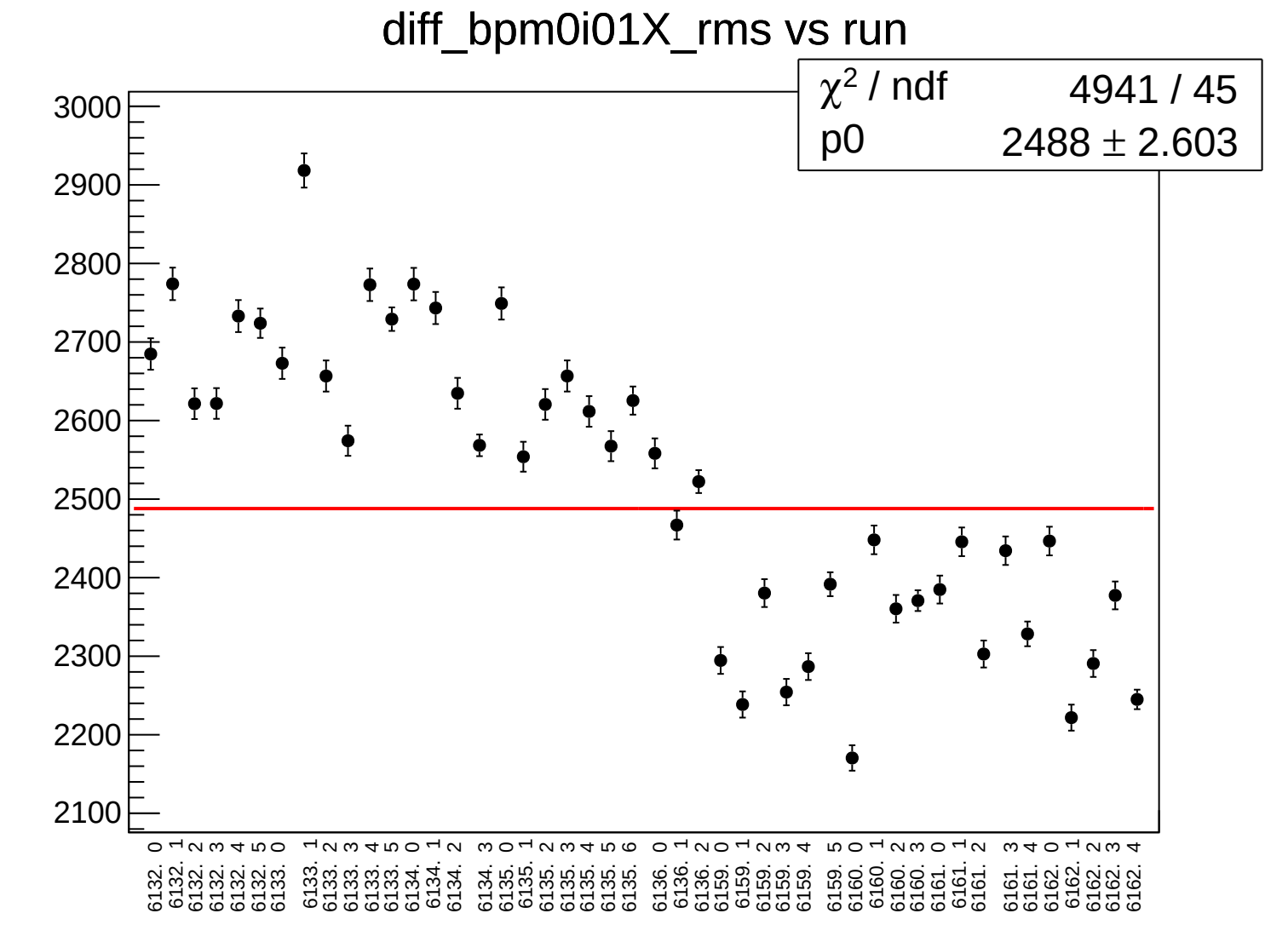

diff_cav4dX_rms vs run
×10^3
800
700
600
500
400
300
χ² / ndf 6.508e+04 / 45
p0 3.898e+05 ± 422
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

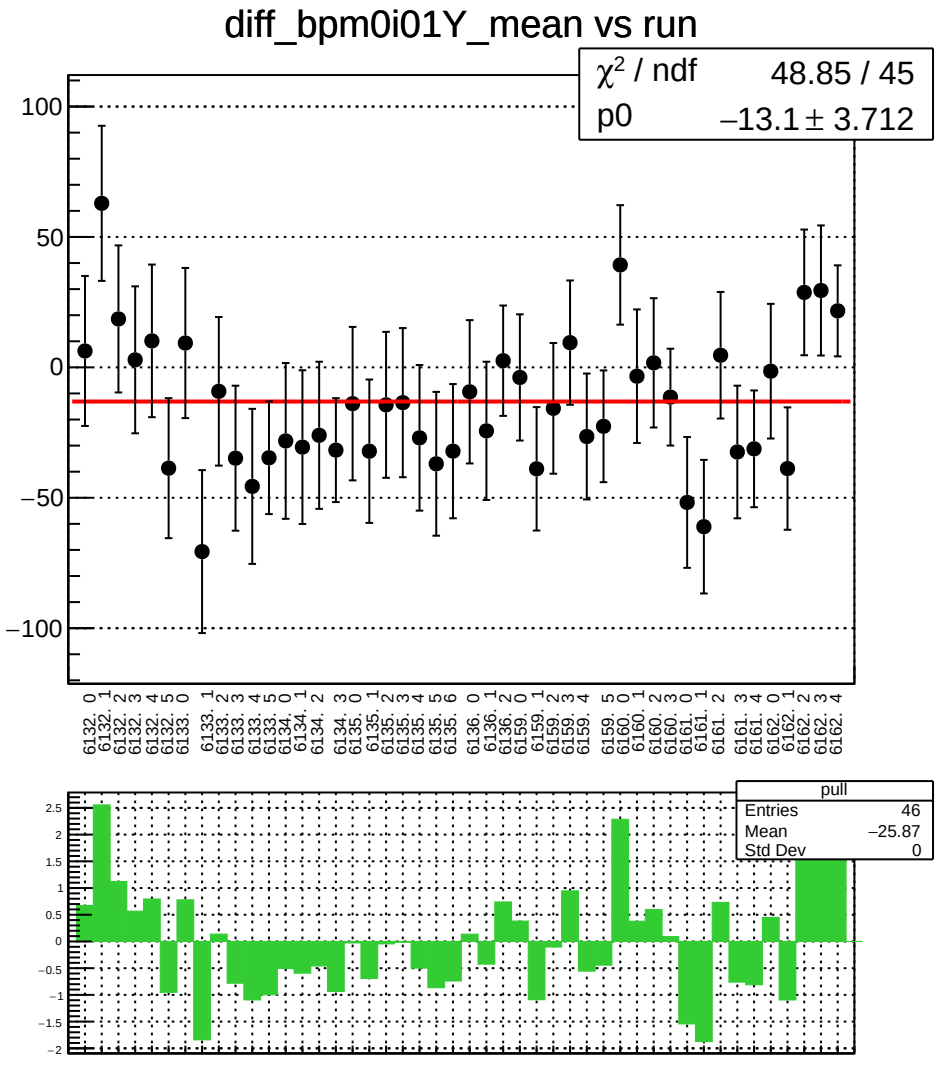

diff_cav4dY_mean vs run
χ² / ndf 44.46 / 45
p0 −178.4 ± 325.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 11.81
Std Dev 27.63
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.02708
Std Dev 0.9827
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

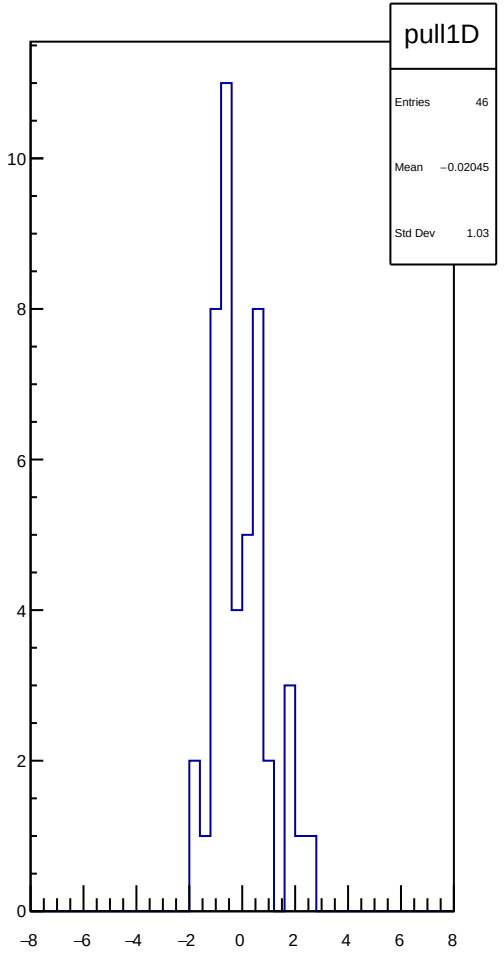

diff_cav4dY_rms vs run
×10^3
χ² / ndf 1872 / 45
p0 2.203e+05 ± 230.1
250
240
230
220
210
200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

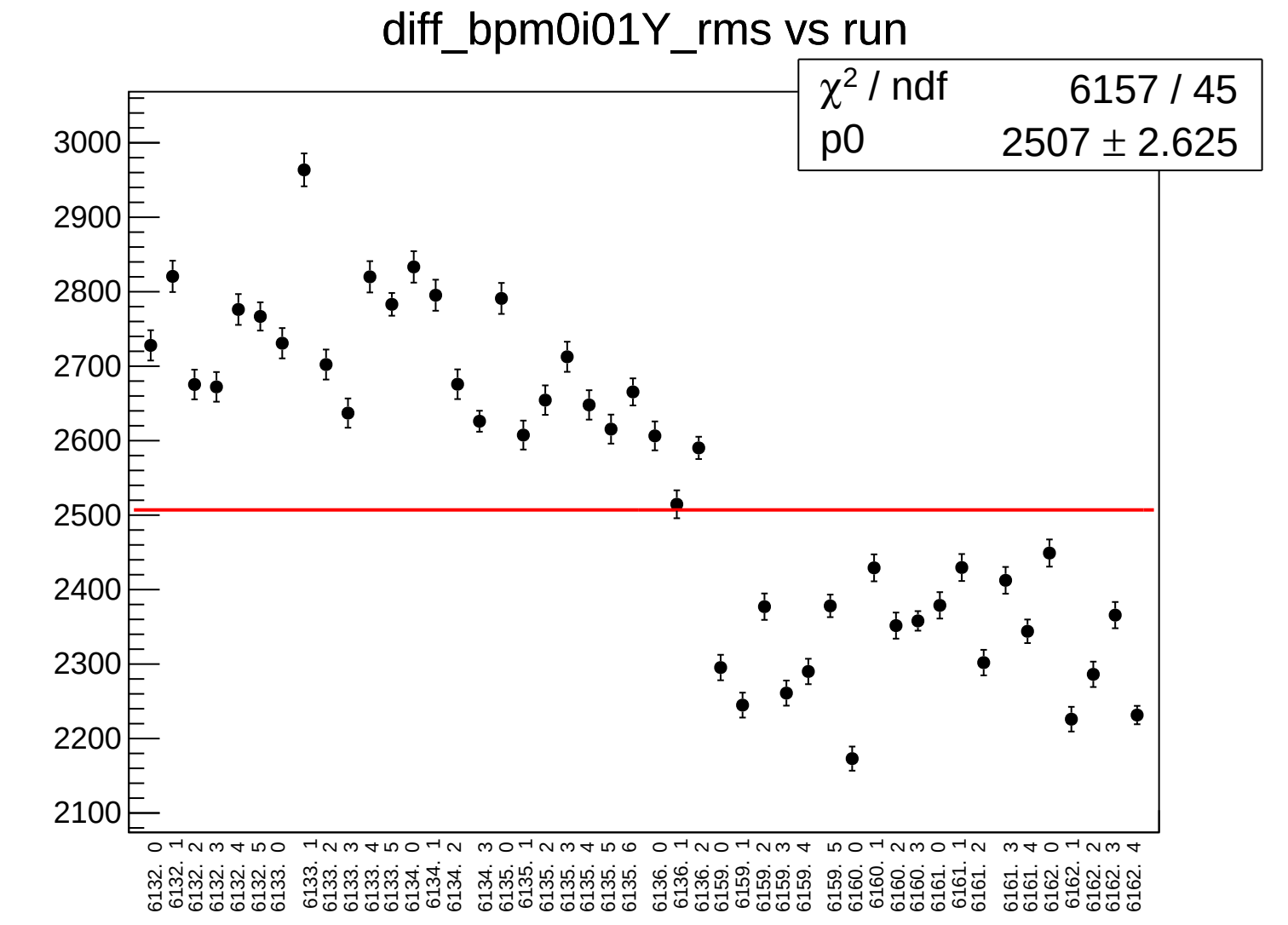

diff_bpm0i01X_mean vs run
χ² / ndf 34.41 / 45
p0 −86.16 ± 3.682
pull
Entries 46
Mean −466
Std Dev 0

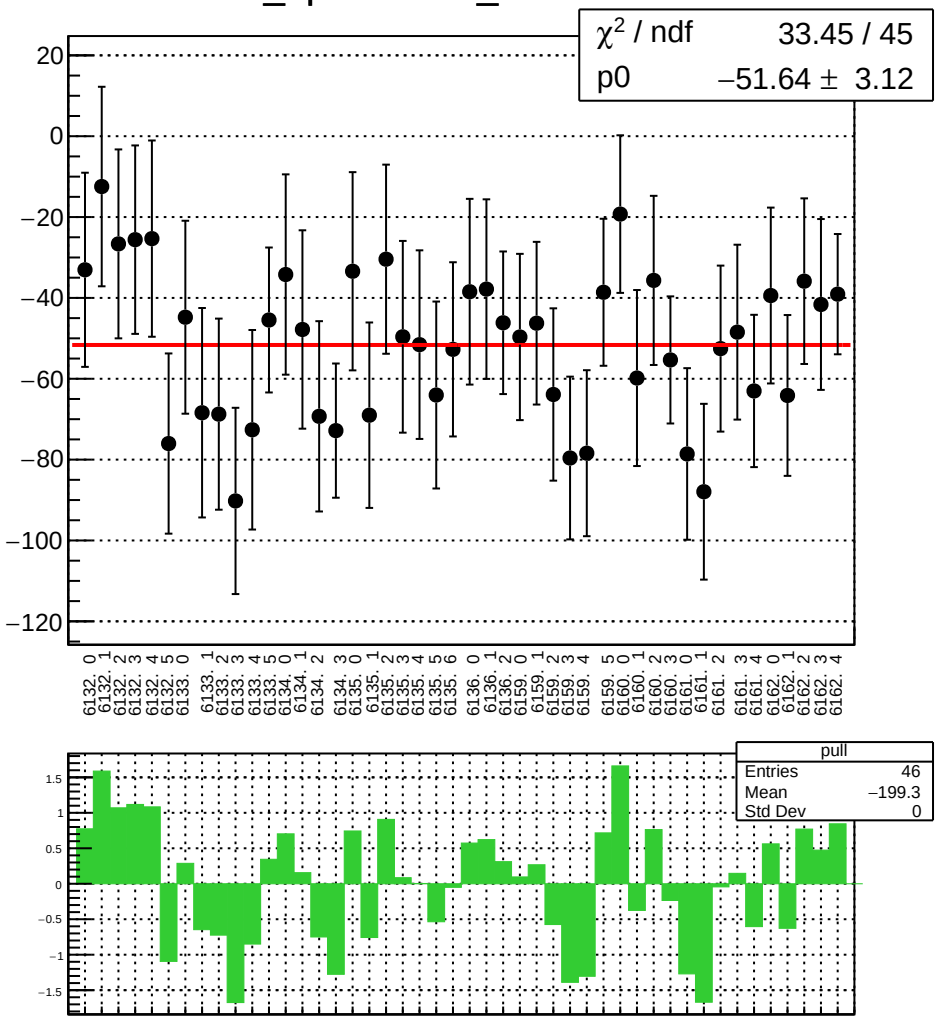

pull1D
Entries 46
Mean 0.001873
Std Dev 0.8649

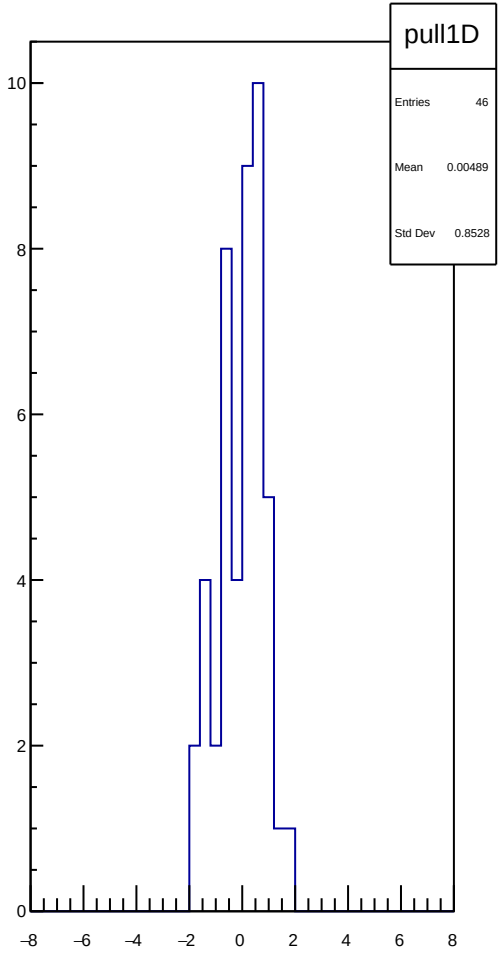

diff_bpm0i01X_rms vs run
χ² / ndf 4941 / 45
p0 2488 ± 2.603
3000
2900
2800
2700
2600
2500
2400
2300
2200
2100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

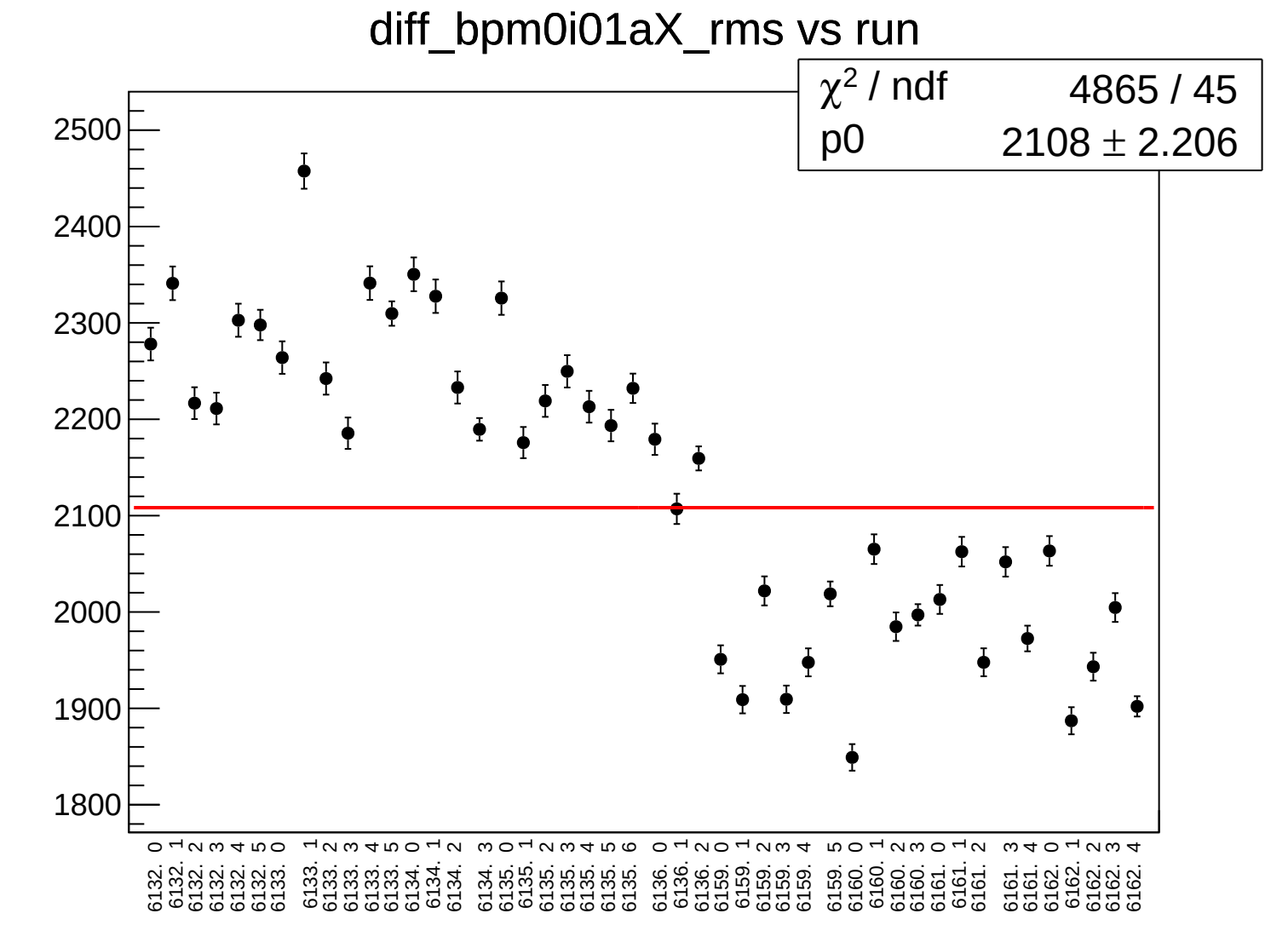

diff_bpm0i01Y_mean vs run
χ² / ndf 48.85 / 45
p0 −13.1 ± 3.712
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −25.87
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

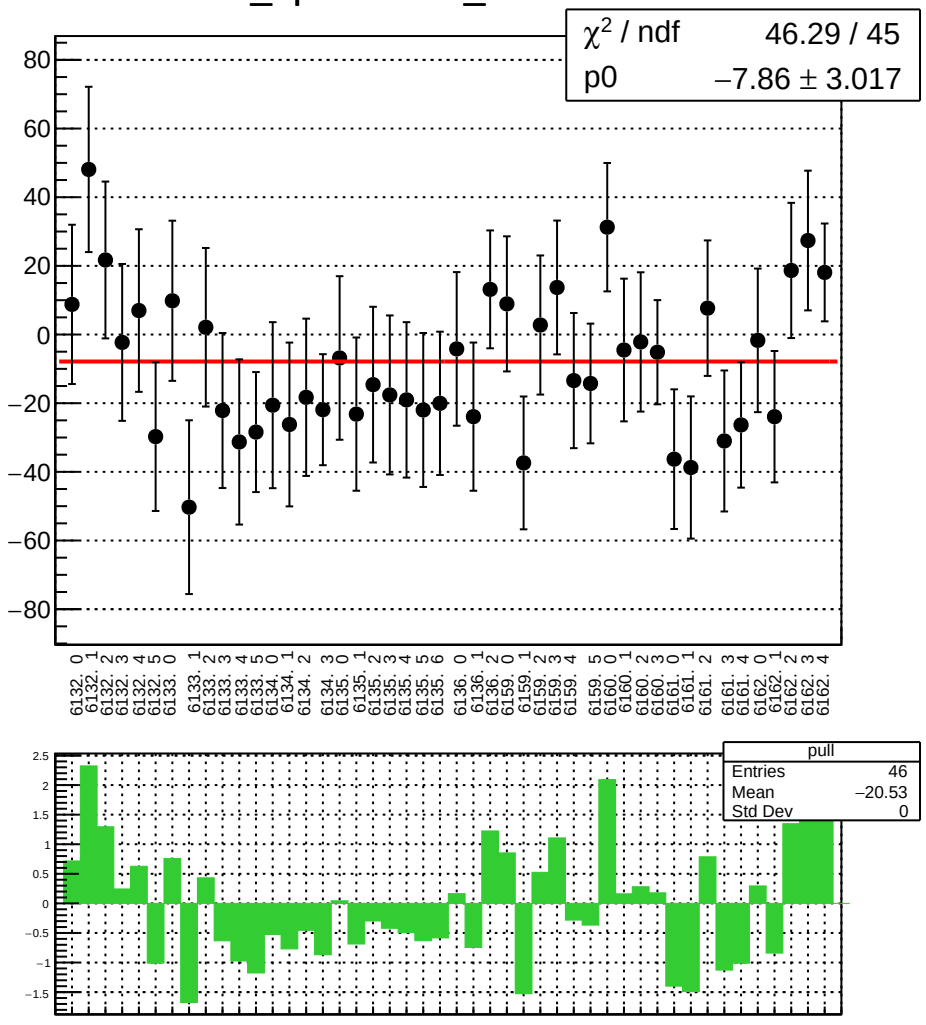

pull1D
Entries 46
Mean −0.02045
Std Dev 1.03
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

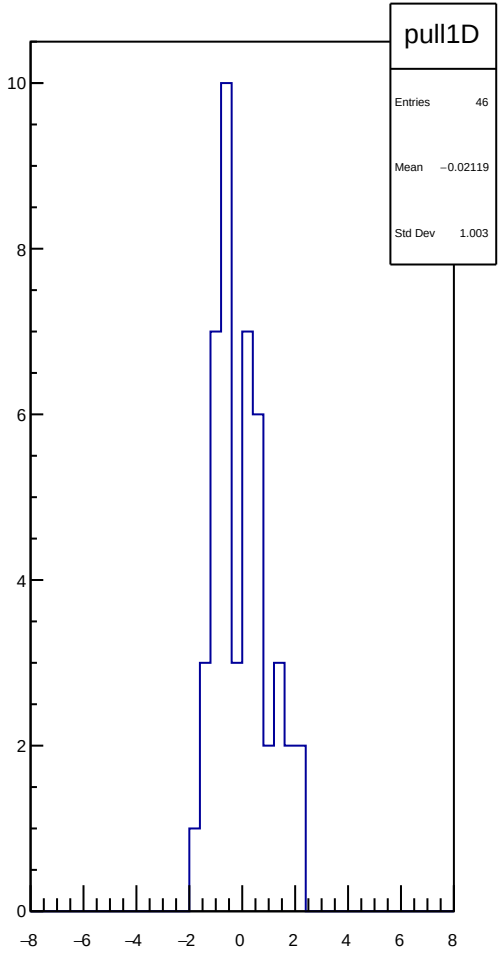

diff_bpm0i01Y_rms vs run
χ² / ndf 6157 / 45
p0 2507 ± 2.625
3000
2900
2800
2700
2600
2500
2400
2300
2200
2100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

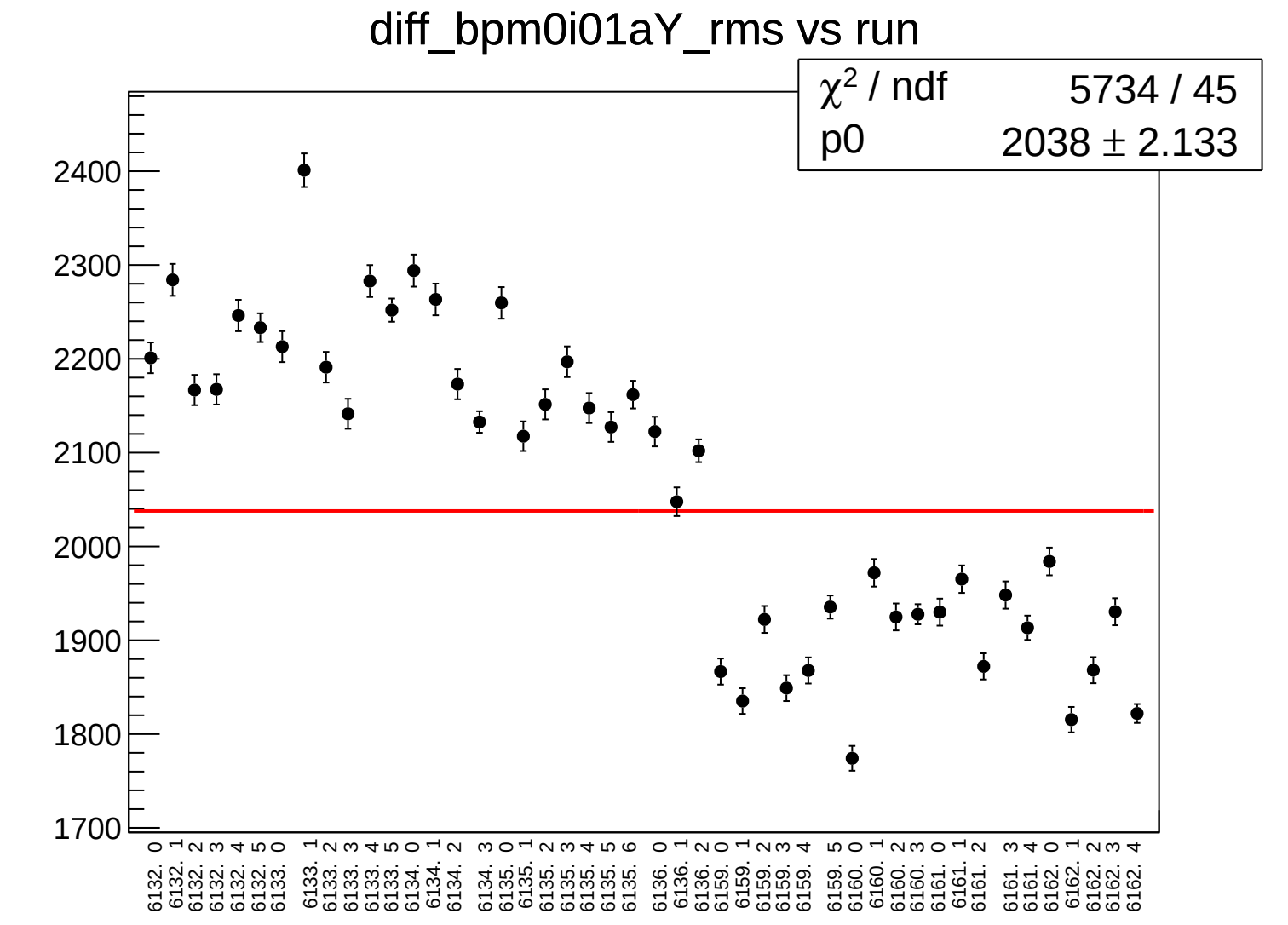

diff_bpm0i01aX_mean vs run
χ² / ndf 33.45 / 45
p0 −51.64 ± 3.12
pull
Entries 46
Mean −199.3
Std Dev 0

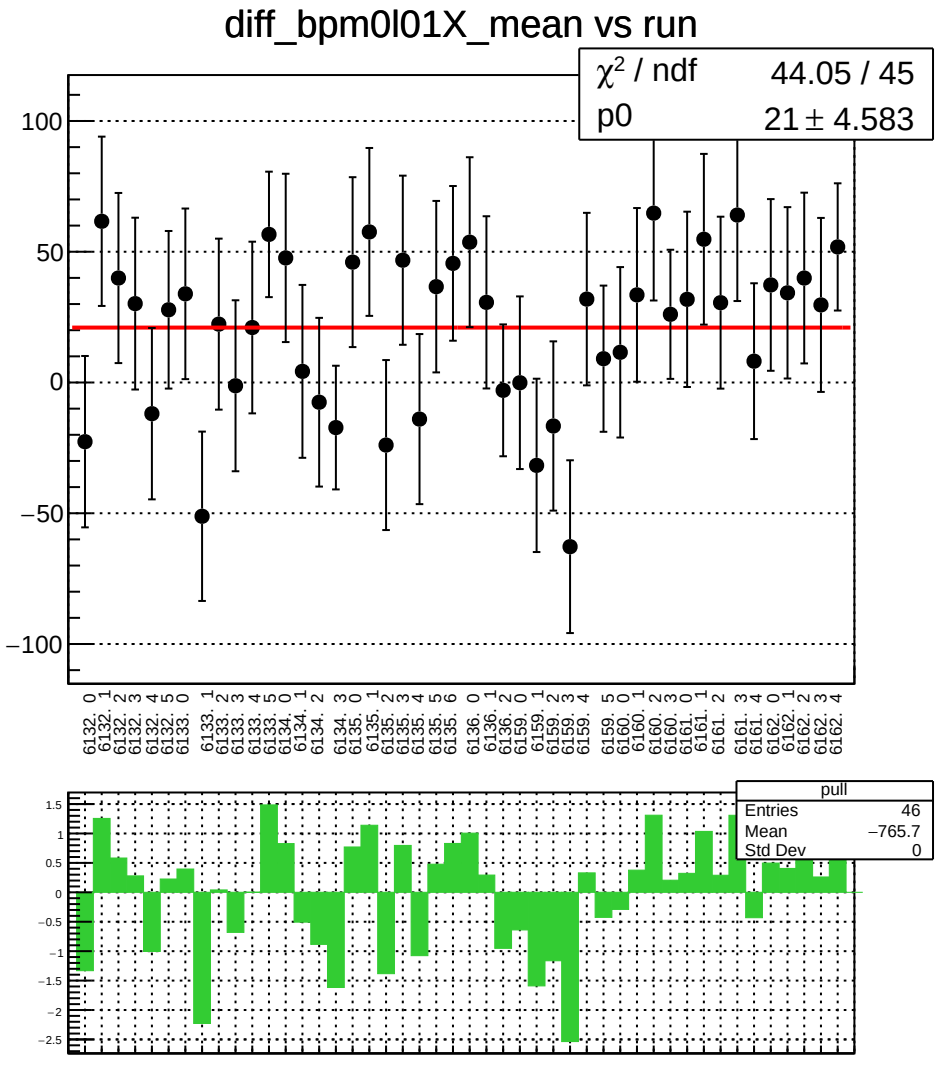

pull1D
Entries 46
Mean 0.00489
Std Dev 0.8528

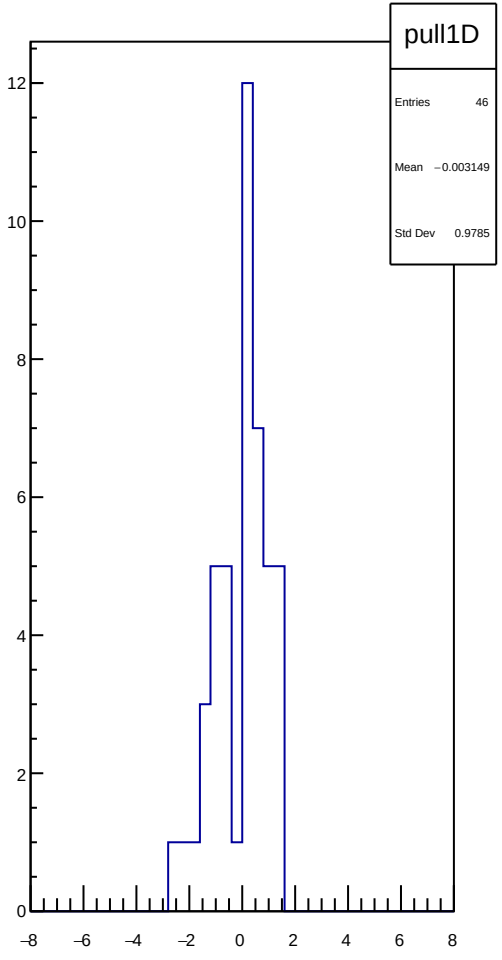

diff_bpm0i01aX_rms vs run
χ² / ndf 4865 / 45
p0 2108 ± 2.206
2500
2400
2300
2200
2100
2000
1900
1800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

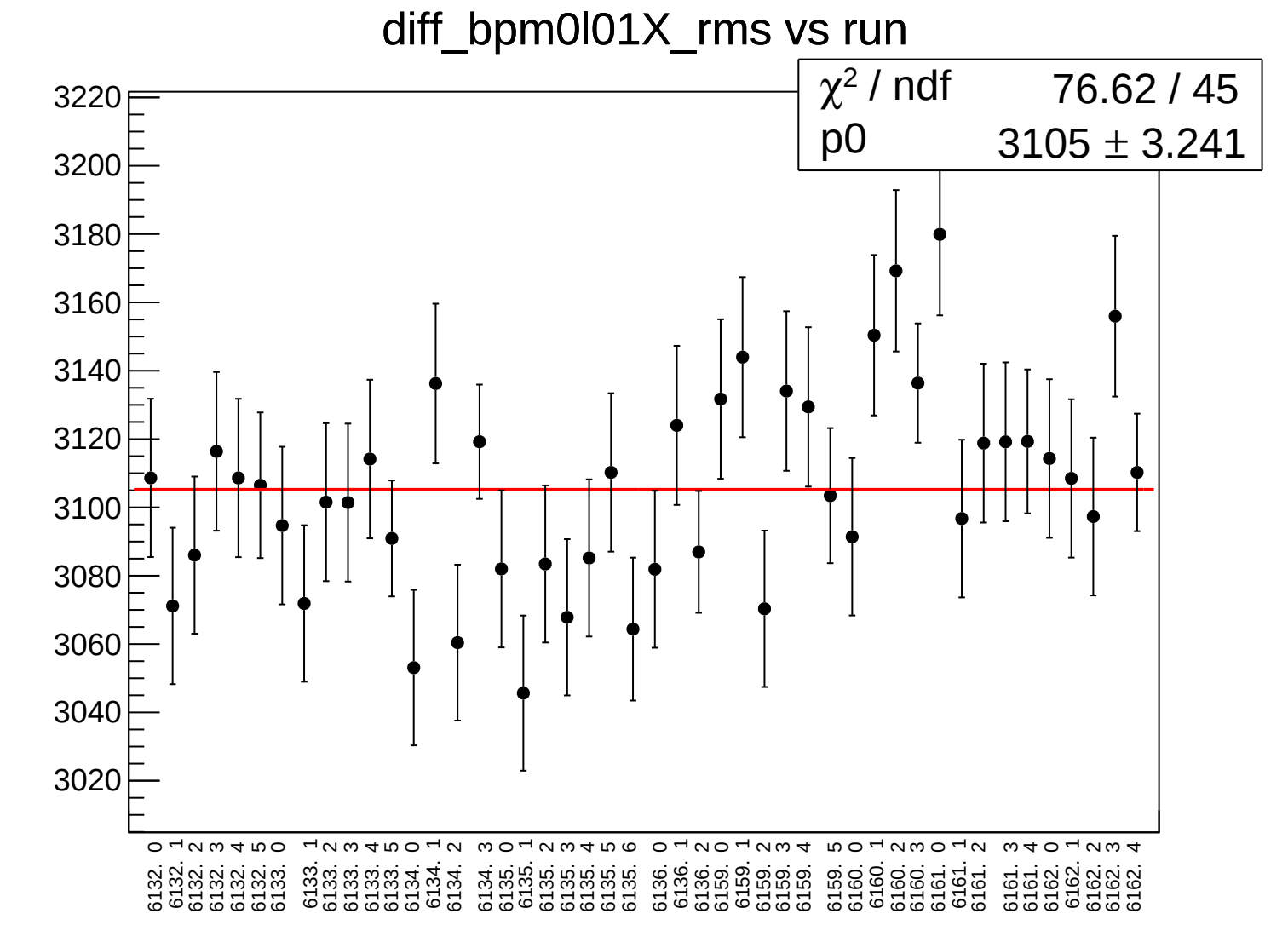

diff_bpm0i01aY_mean vs run
χ² / ndf 46.29 / 45
p0 −7.86 ± 3.017
pull
Entries 46
Mean −20.53
Std Dev 0

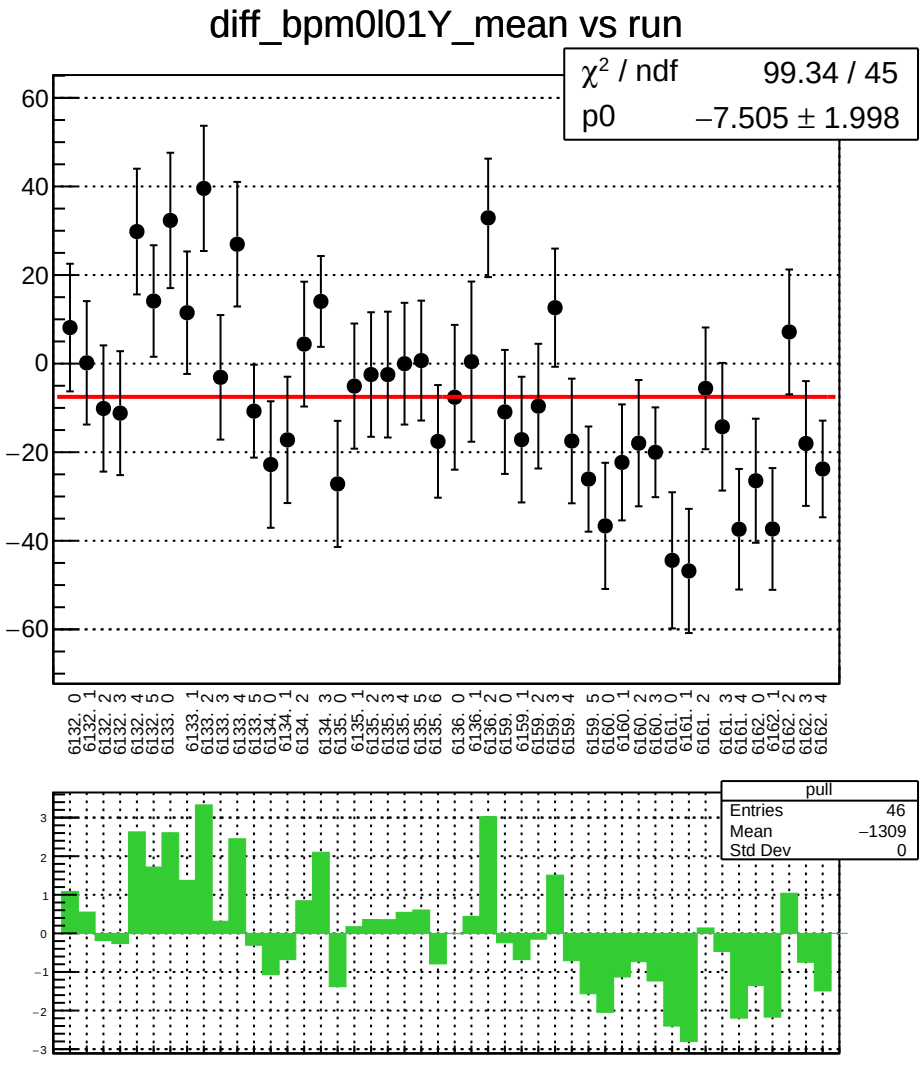

pull1D
Entries 46
Mean −0.02119
Std Dev 1.003

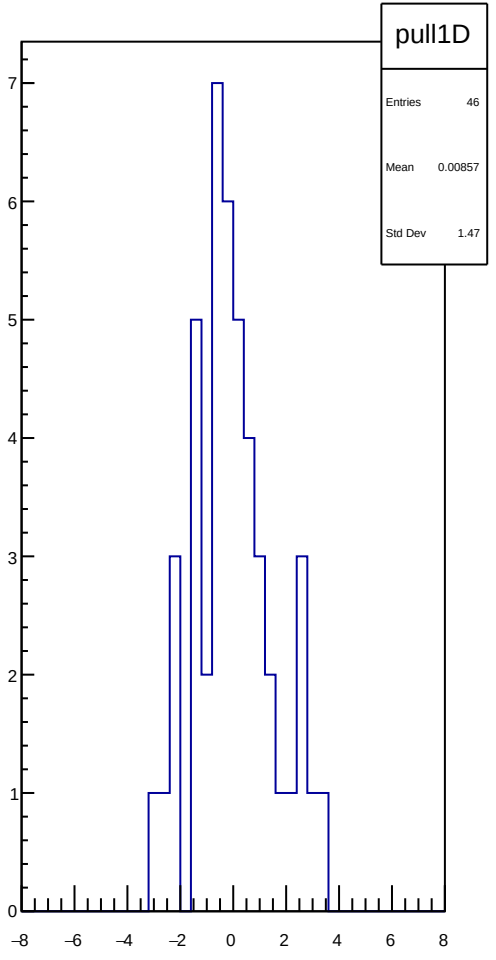

diff_bpm0i01aY_rms vs run
χ² / ndf 5734 / 45
p0 2038 ± 2.133
2400
2300
2200
2100
2000
1900
1800
1700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

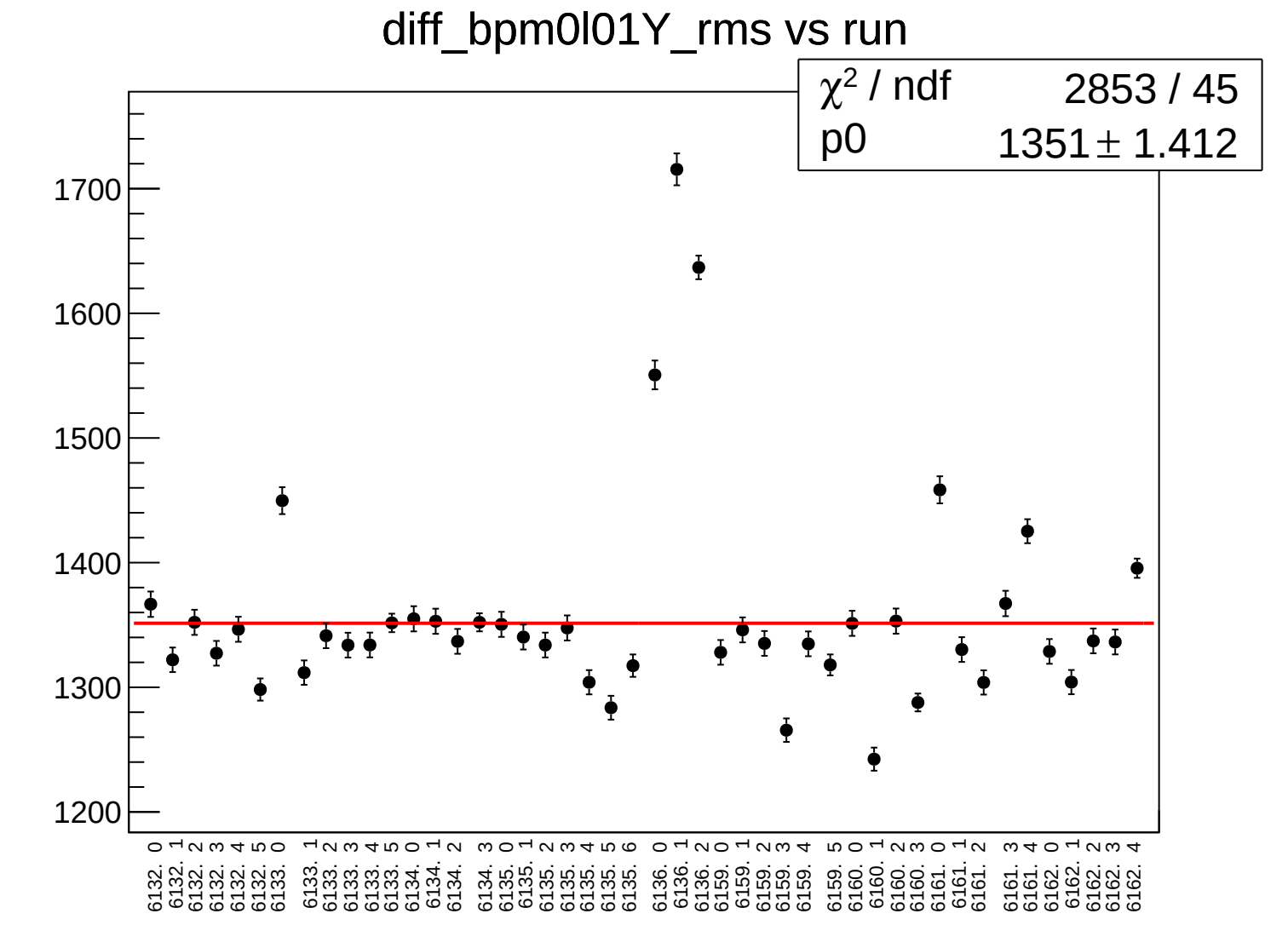

diff_bpm0l01X_mean vs run
χ^2 / ndf 44.05 / 45
p0 21 ± 4.583
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −765.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

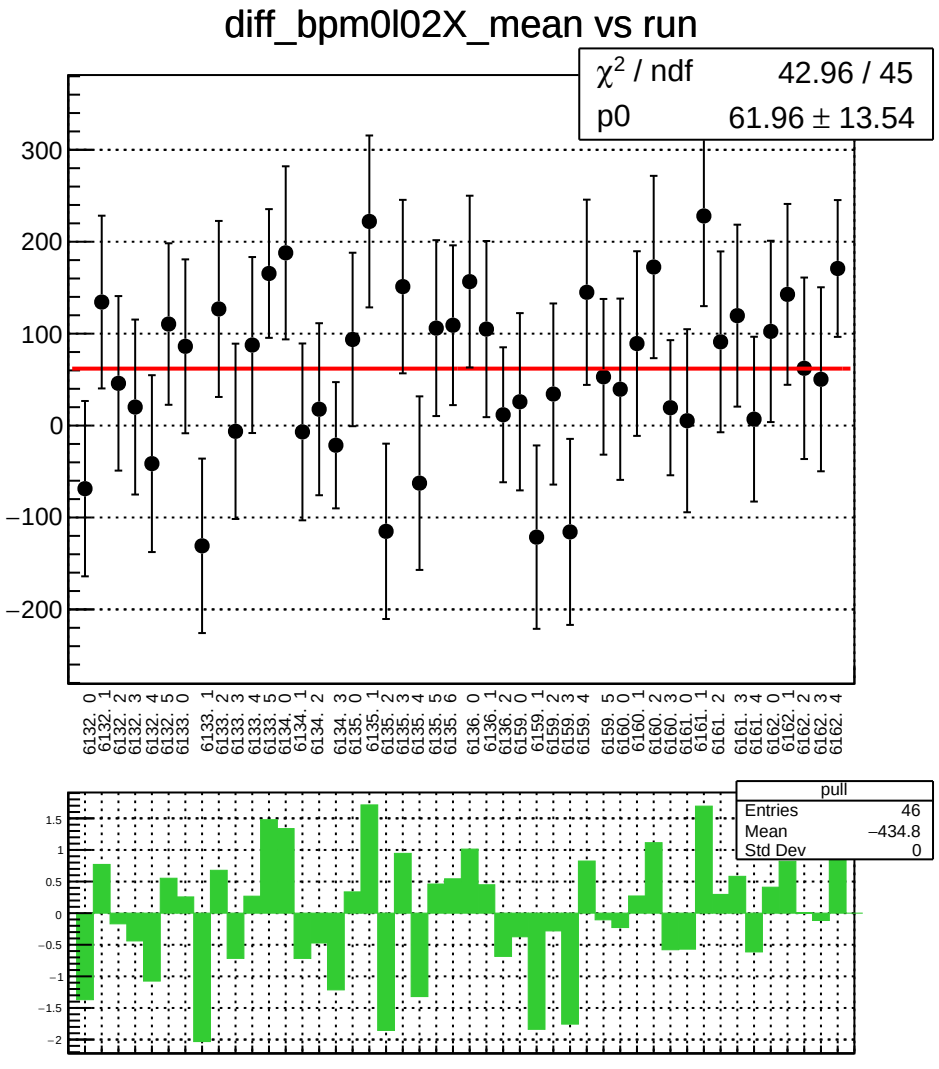

pull1D
Entries 46
Mean −0.003149
Std Dev 0.9785
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

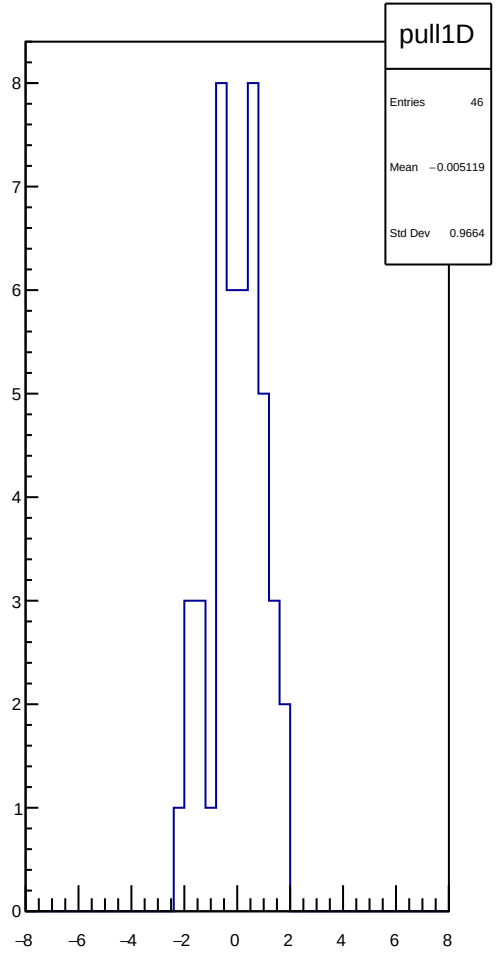

diff_bpm0l01X_rms vs run
χ² / ndf 76.62 / 45
p0 3105 ± 3.241
3220
3200
3180
3160
3140
3120
3100
3080
3060
3040
3020
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

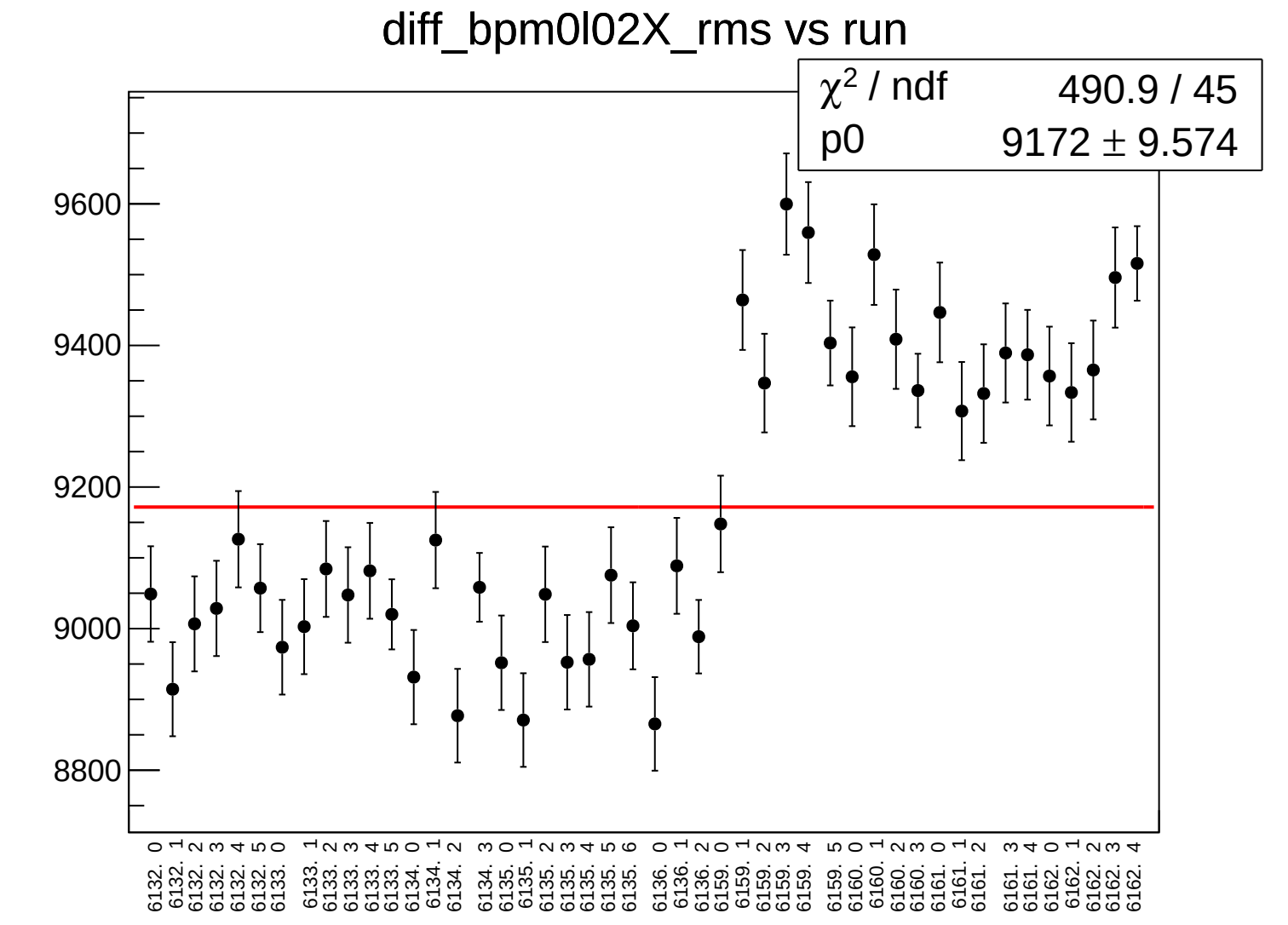

diff_bpm0l01Y_mean vs run
χ² / ndf 99.34 / 45
p0 −7.505 ± 1.998
pull
Entries 46
Mean −1309
Std Dev 0

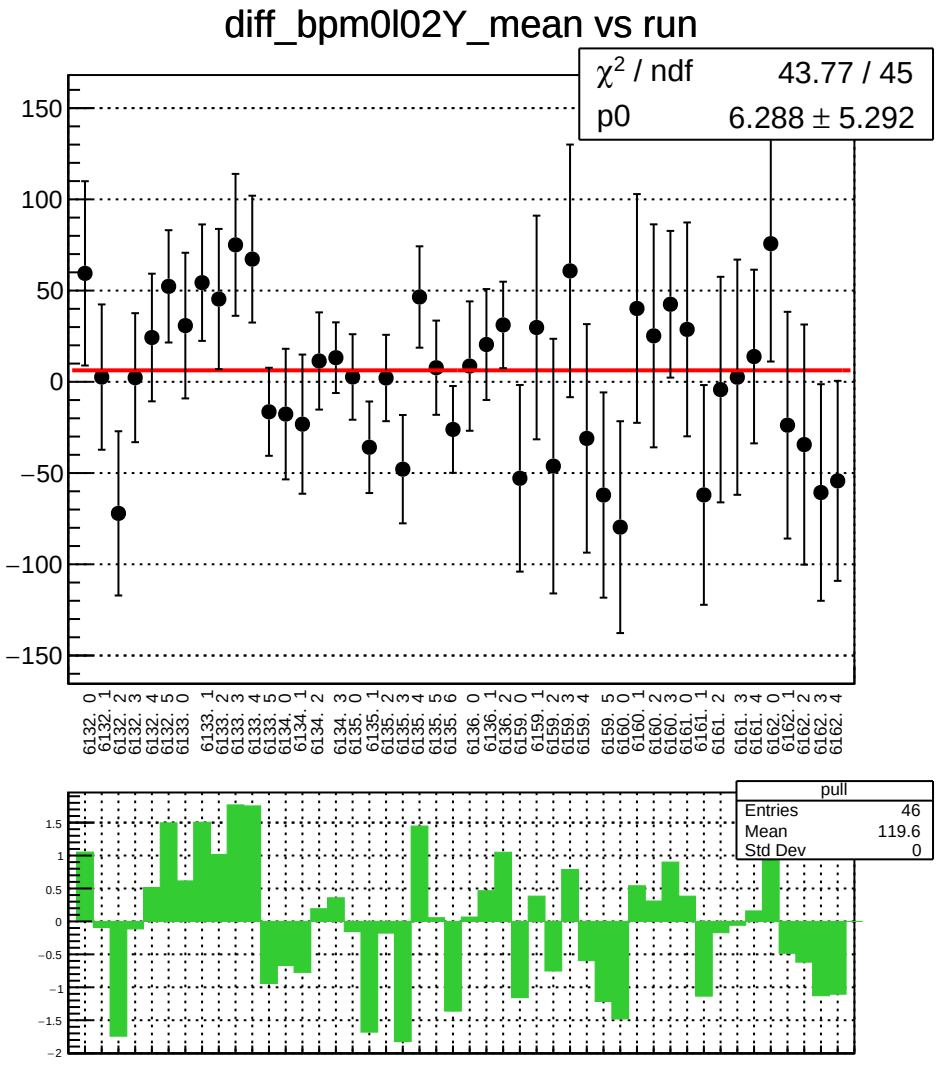

pull1D
Entries 46
Mean 0.00857
Std Dev 1.47

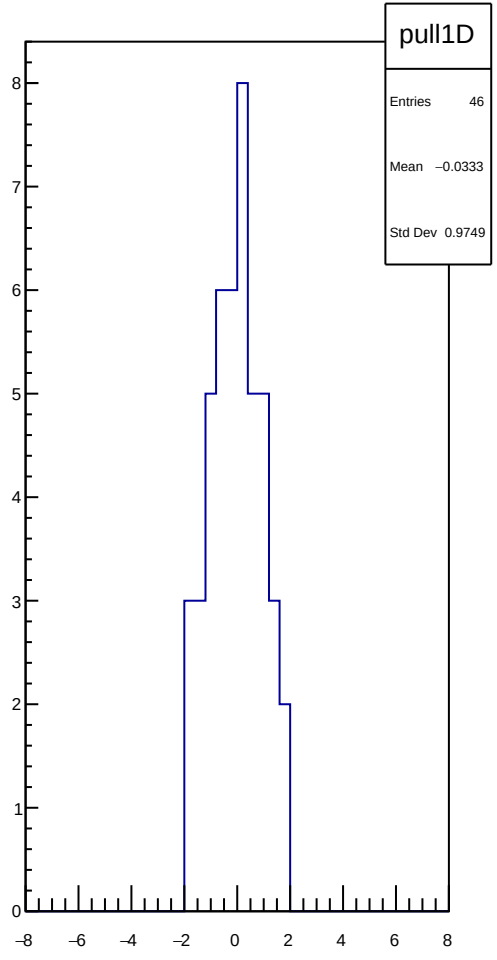

diff_bpm0l01Y_rms vs run
χ² / ndf 2853 / 45
p0 1351 ± 1.412
1700
1600
1500
1400
1300
1200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

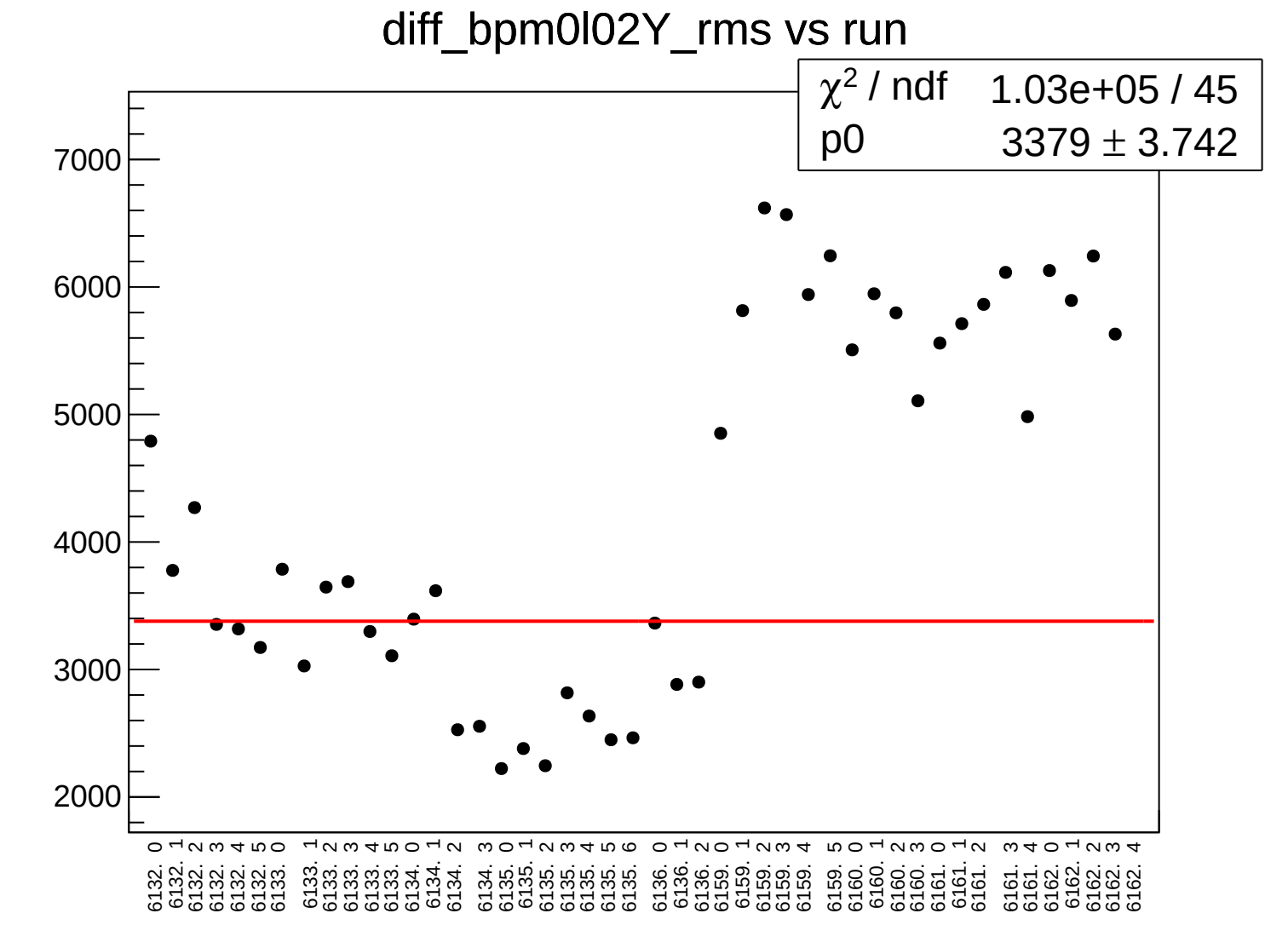

diff_bpm0l02X_mean vs run
χ² / ndf 42.96 / 45
p0 61.96 ± 13.54
300
200
100
0
−100
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −434.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

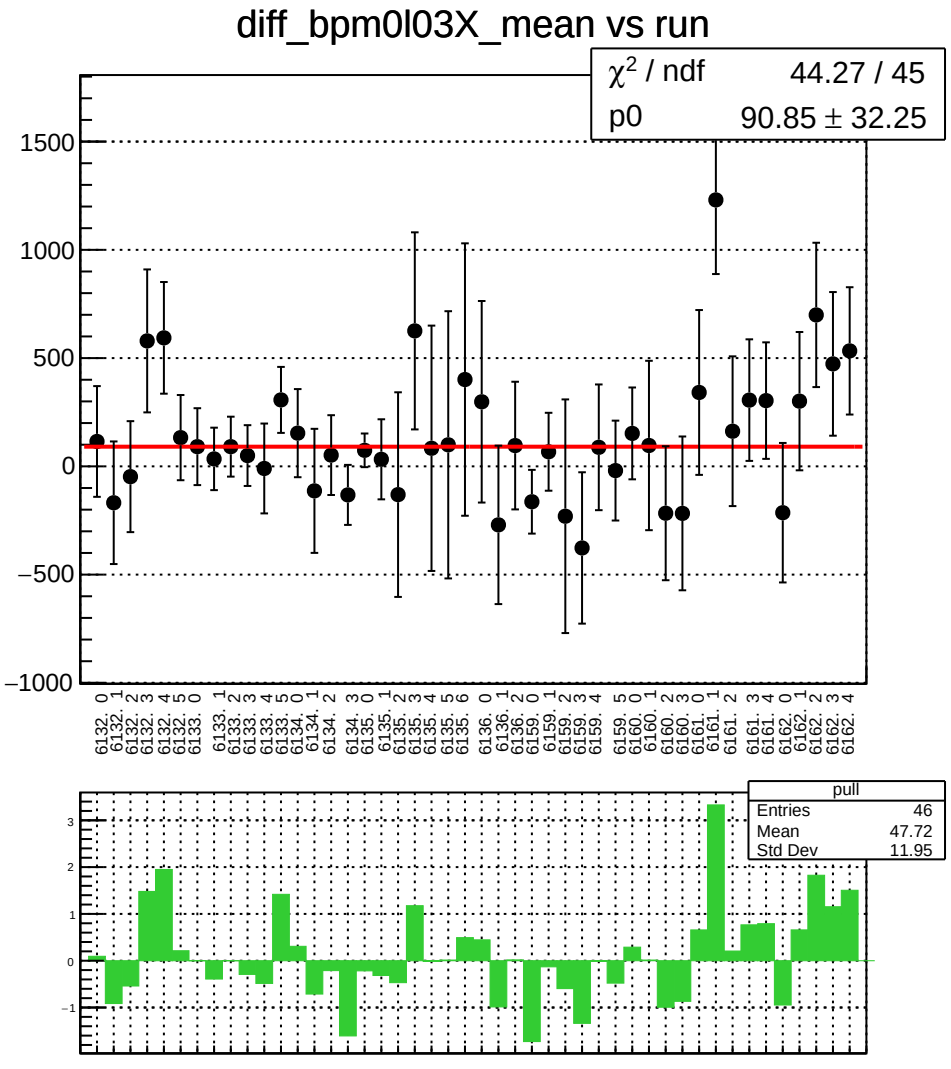

pull1D
Entries 46
Mean −0.005119
Std Dev 0.9664
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

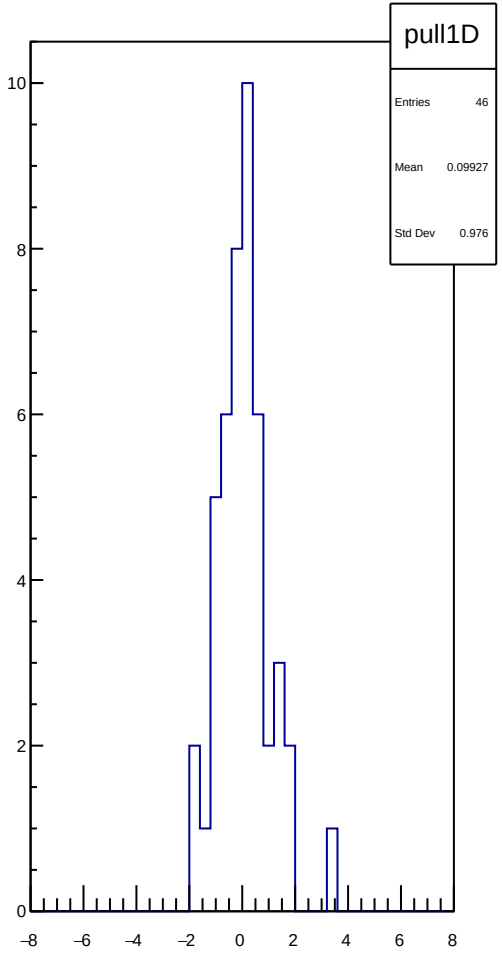

diff_bpm0l02X_rms vs run
χ² / ndf 490.9 / 45
p0 9172 ± 9.574
9600
9400
9200
9000
8800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

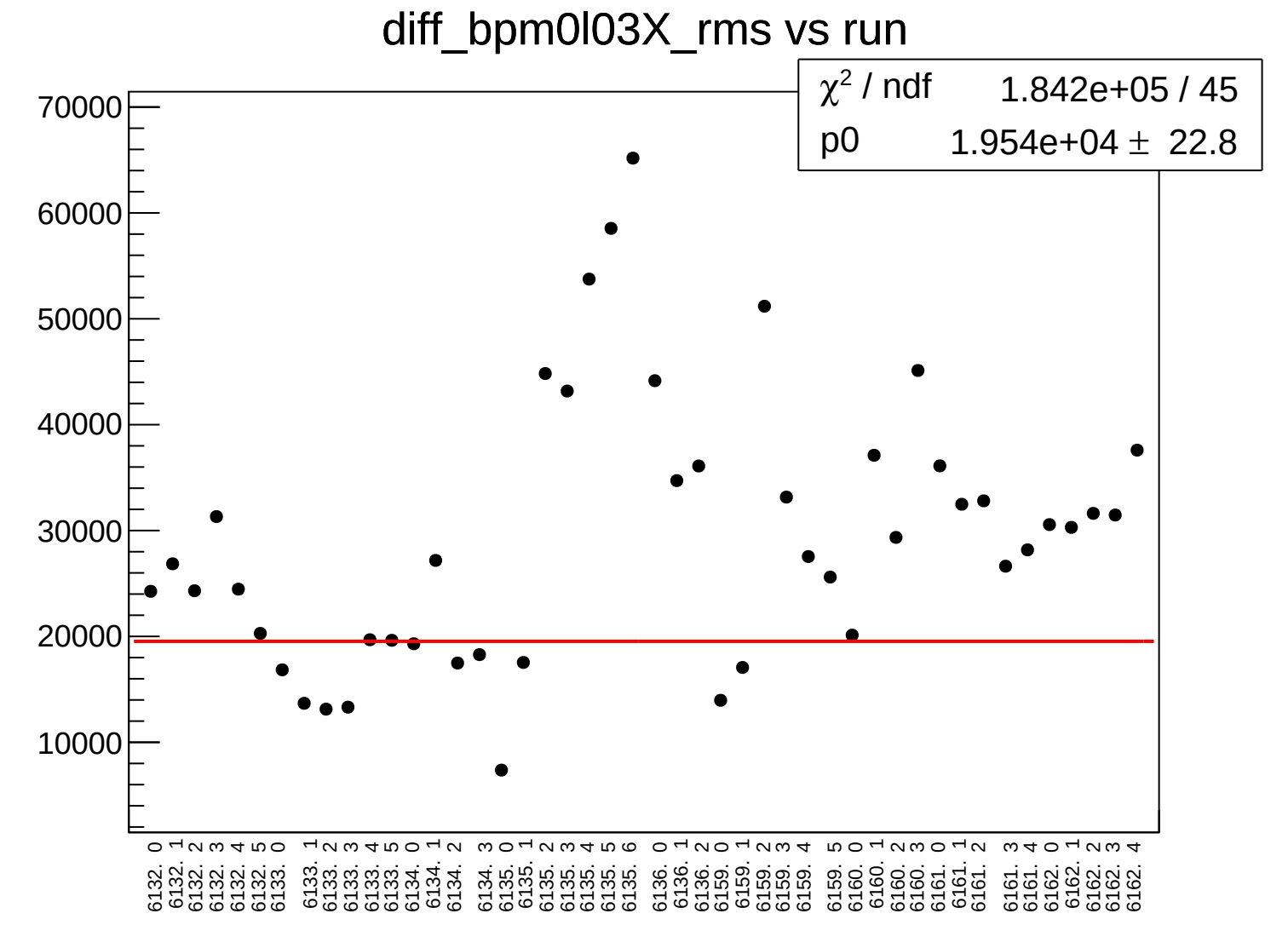

diff_bpm0l02Y_mean vs run
χ² / ndf 43.77 / 45
p0 6.288 ± 5.292
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 119.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

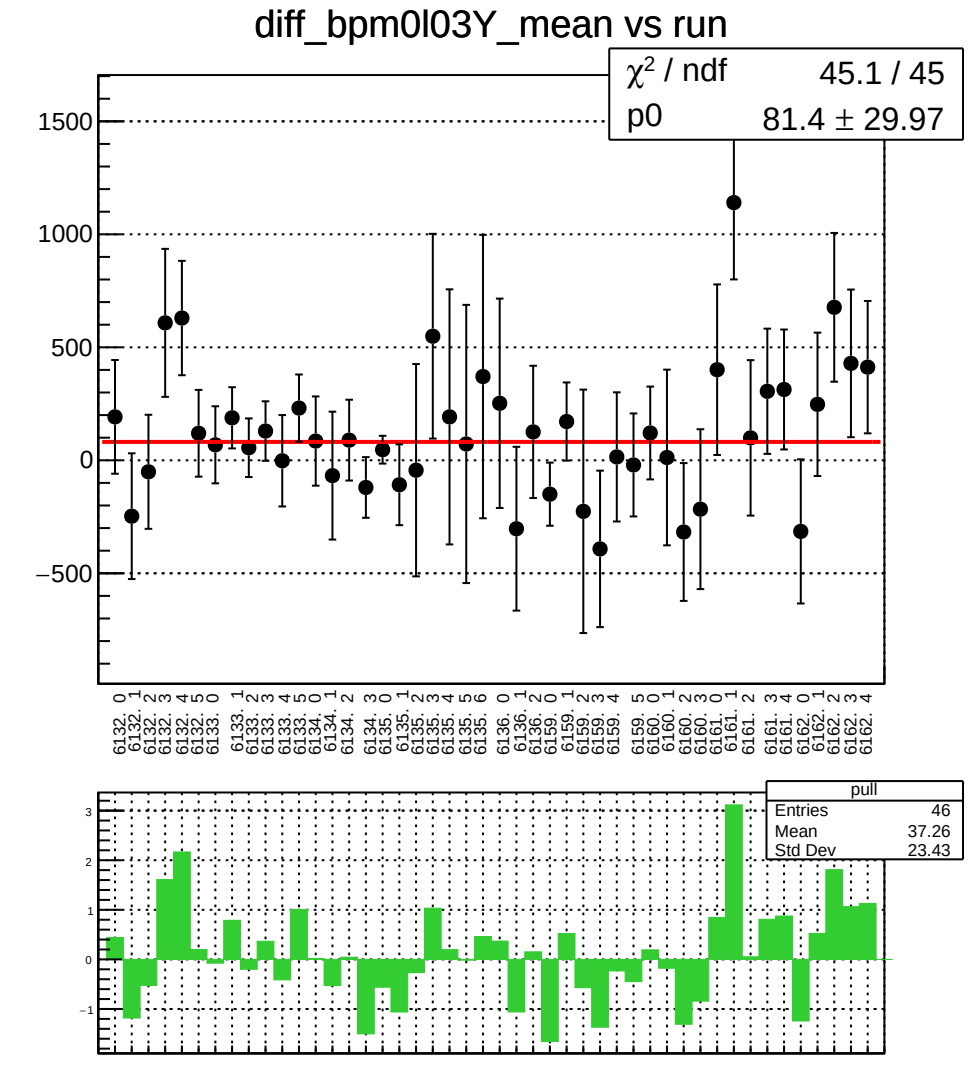

pull1D
Entries 46
Mean −0.0333
Std Dev 0.9749
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

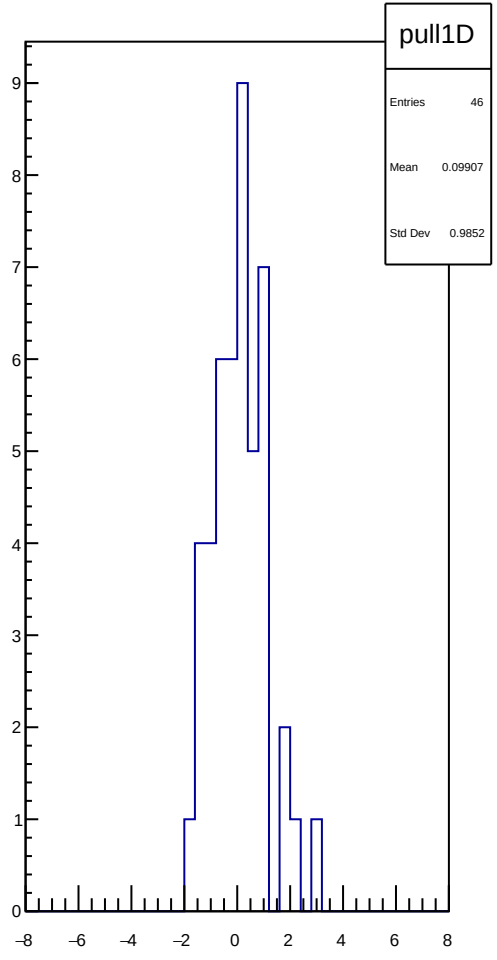

diff_bpm0l02Y_rms vs run
χ² / ndf 1.03e+05 / 45
p0 3379 ± 3.742
7000
6000
5000
4000
3000
2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

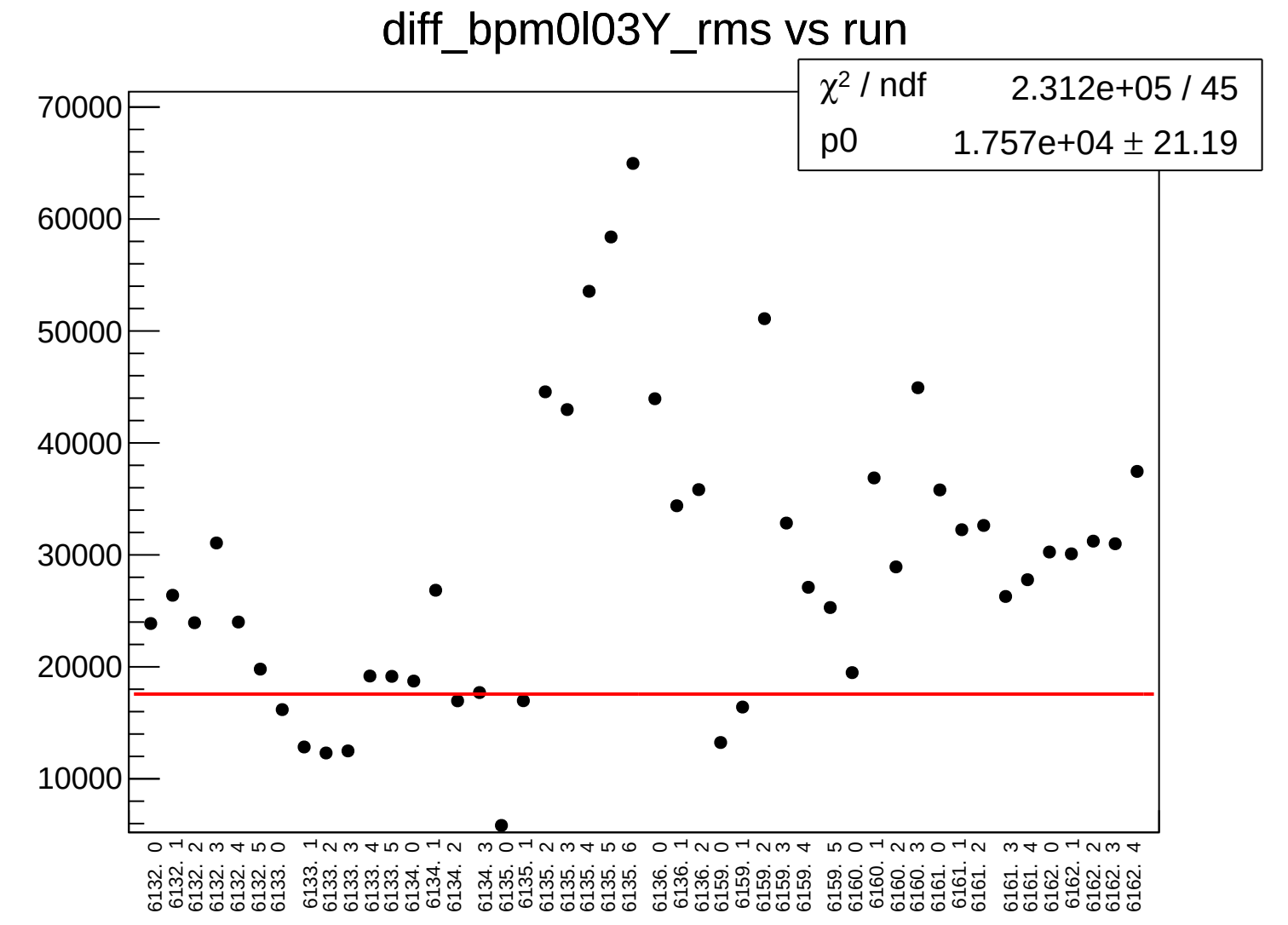

diff_bpm0l03X_mean vs run
χ^2 / ndf 44.27 / 45
p0 90.85 ± 32.25
1500
1000
500
0
−500
−1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 47.72
Std Dev 11.95
3
2
1
0
−1

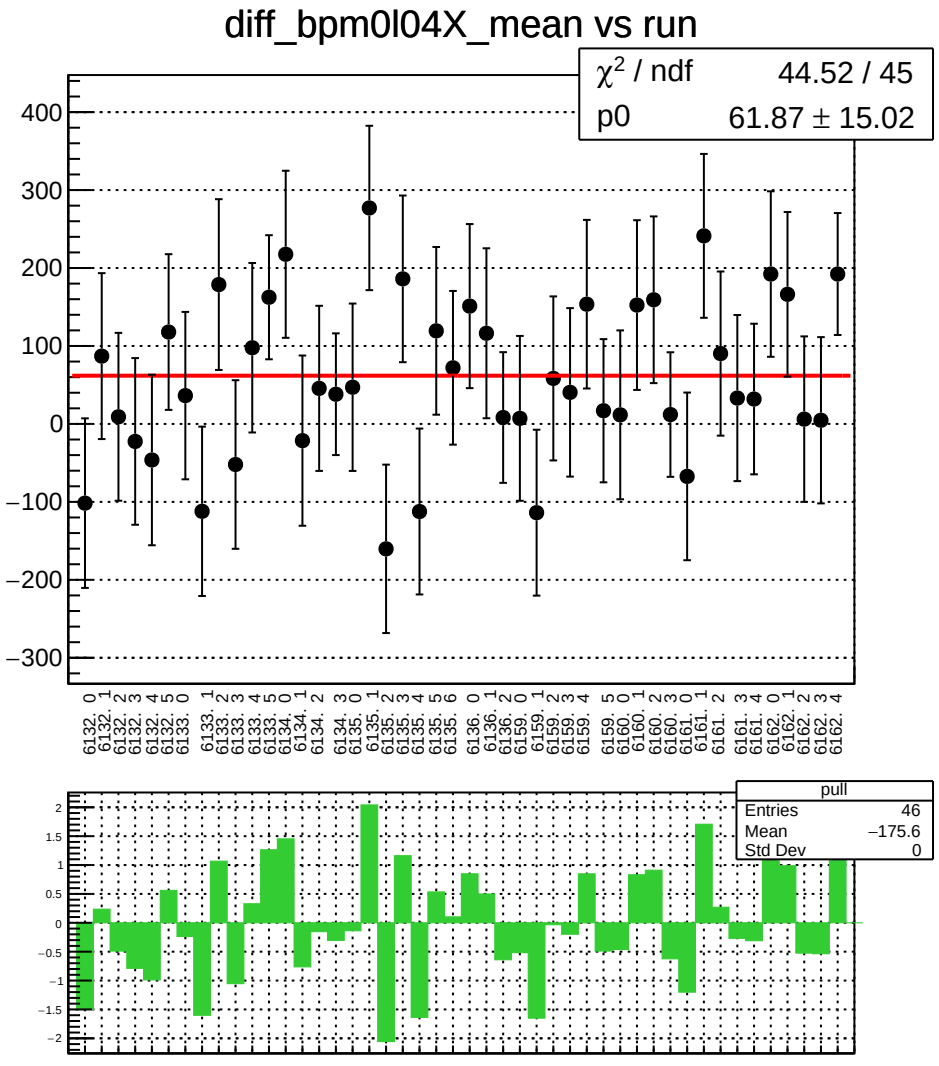

pull1D
Entries 46
Mean 0.09927
Std Dev 0.976
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

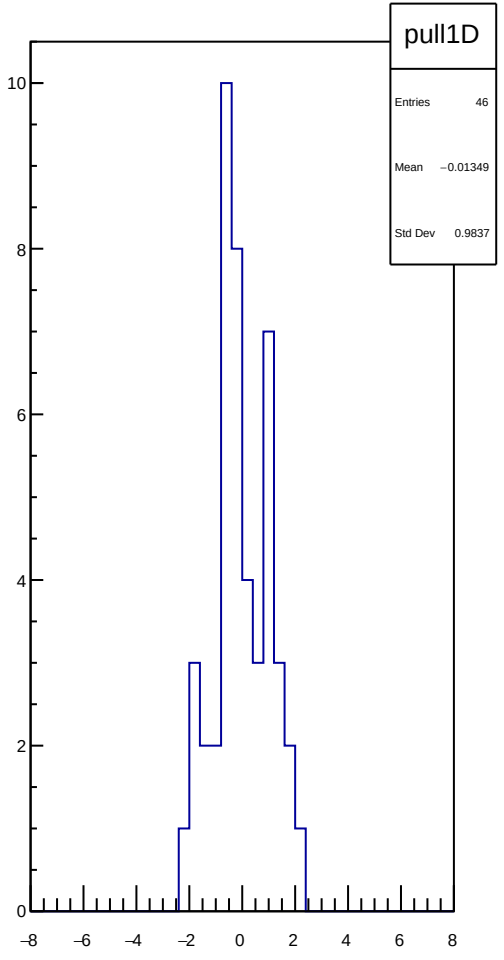

diff_bpm0l03X_rms vs run
χ² / ndf 1.842e+05 / 45
p0 1.954e+04 ± 22.8
70000
60000
50000
40000
30000
20000
10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

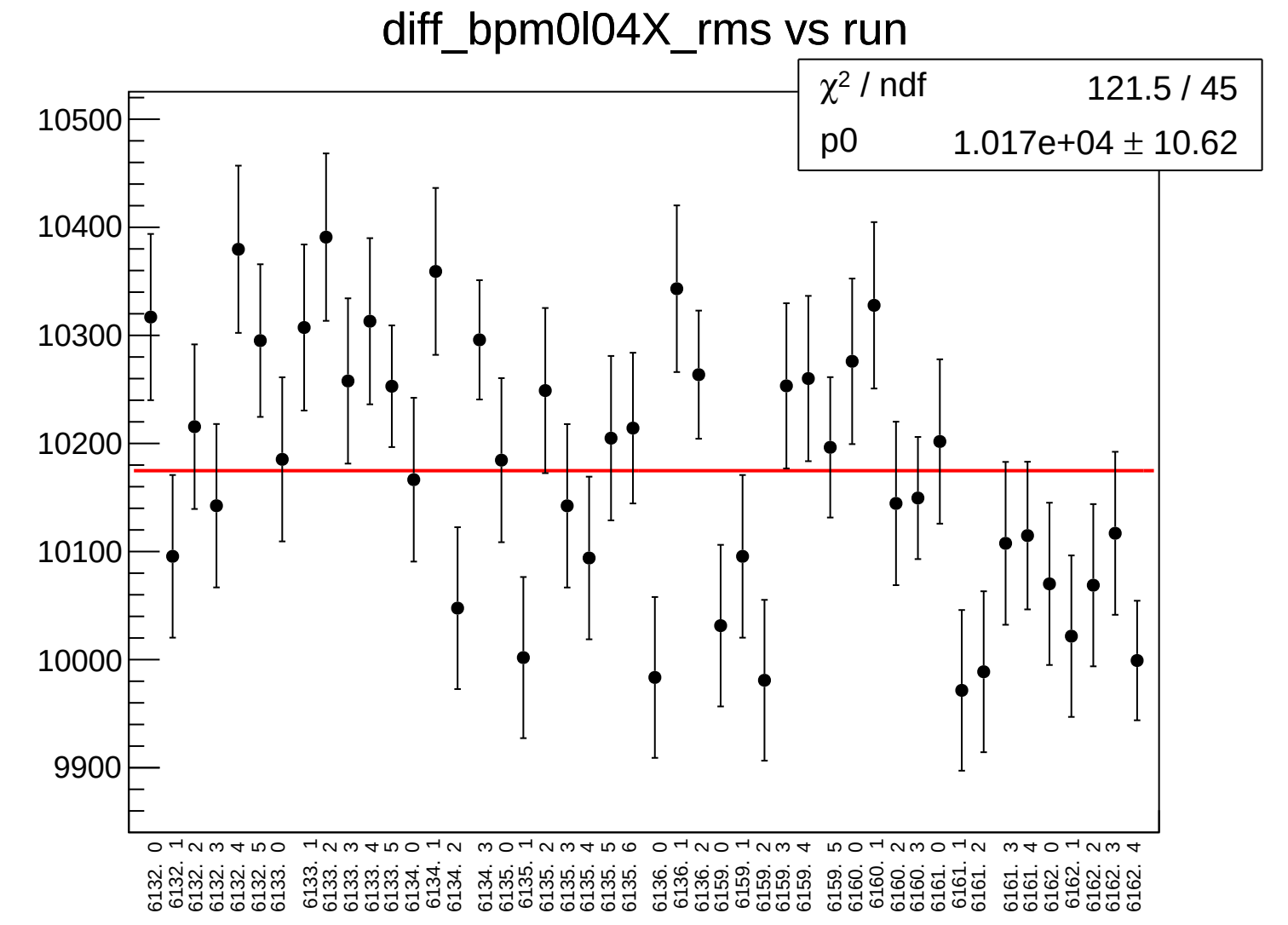

diff_bpm0l03Y_mean vs run
χ² / ndf 45.1 / 45
p0 81.4 ± 29.97
1500
1000
500
0
−500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 37.26
Std Dev 23.43
3
2
1
0
−1

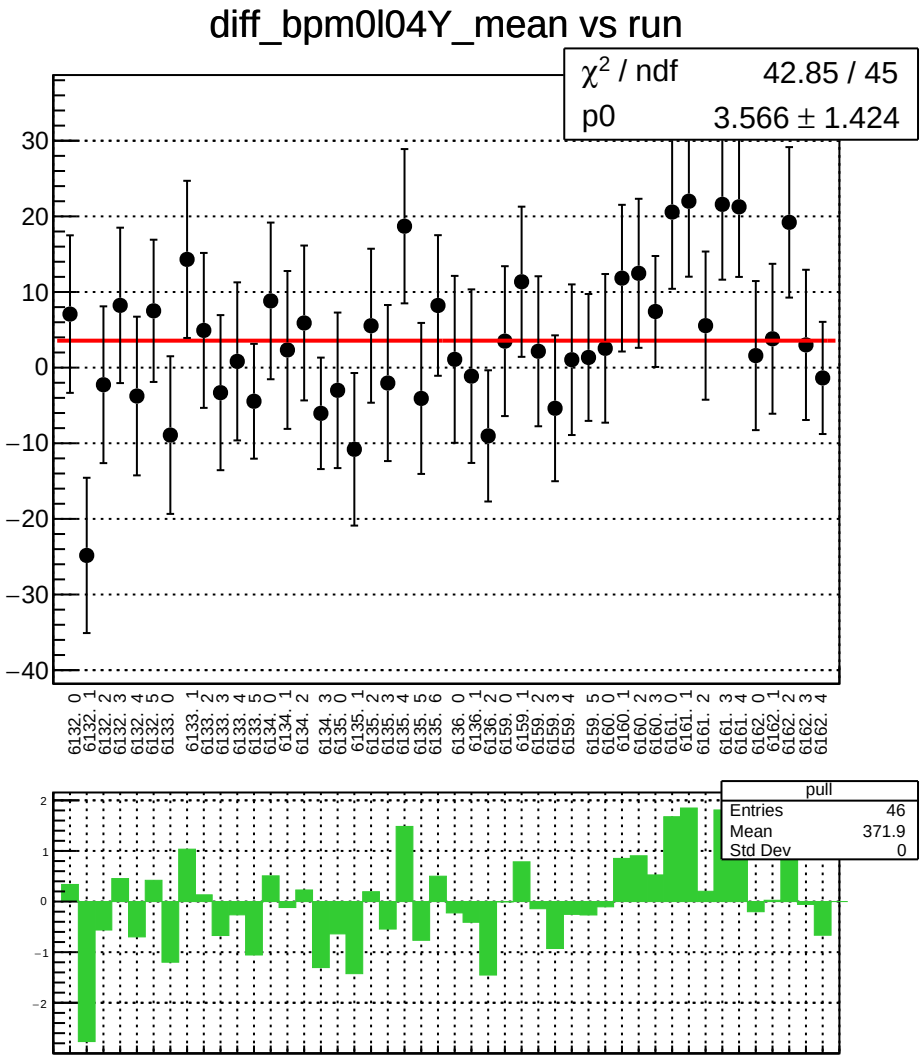

pull1D
Entries 46
Mean 0.09907
Std Dev 0.9852
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

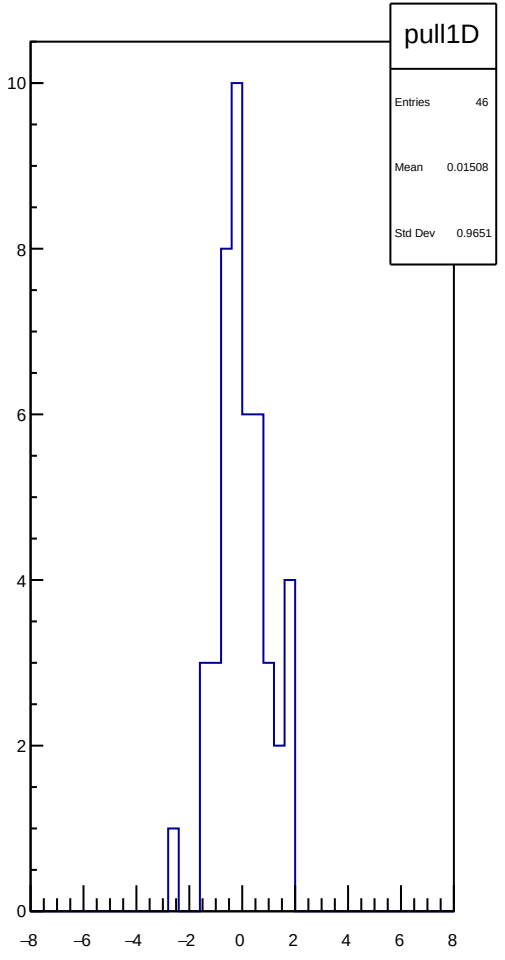

diff_bpm0l03Y_rms vs run
χ² / ndf 2.312e+05 / 45
p0 1.757e+04 ± 21.19
70000
60000
50000
40000
30000
20000
10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

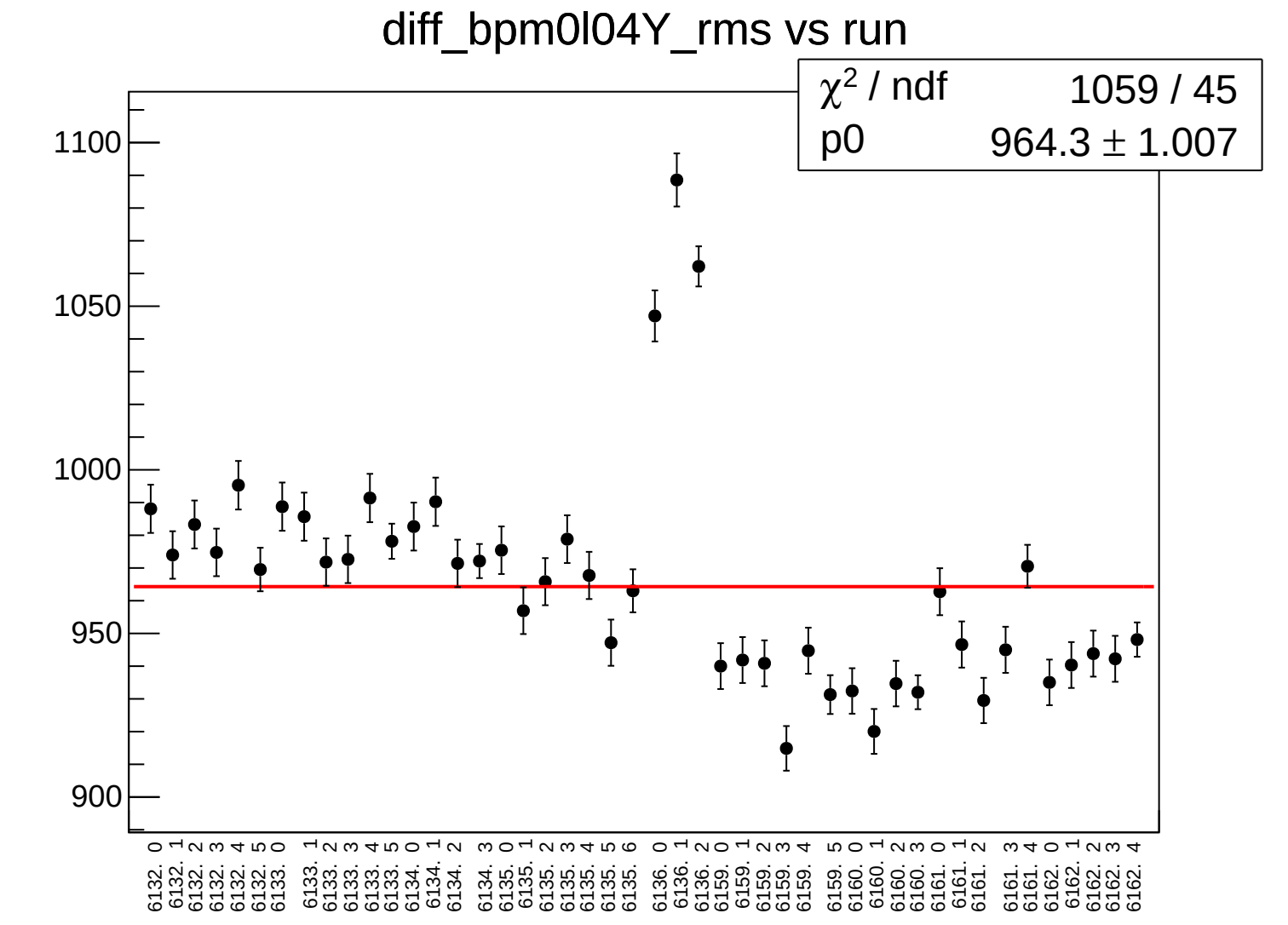

diff_bpm0l04X_mean vs run
χ² / ndf 44.52 / 45
p0 61.87 ± 15.02
pull
Entries 46
Mean −175.6
Std Dev 0

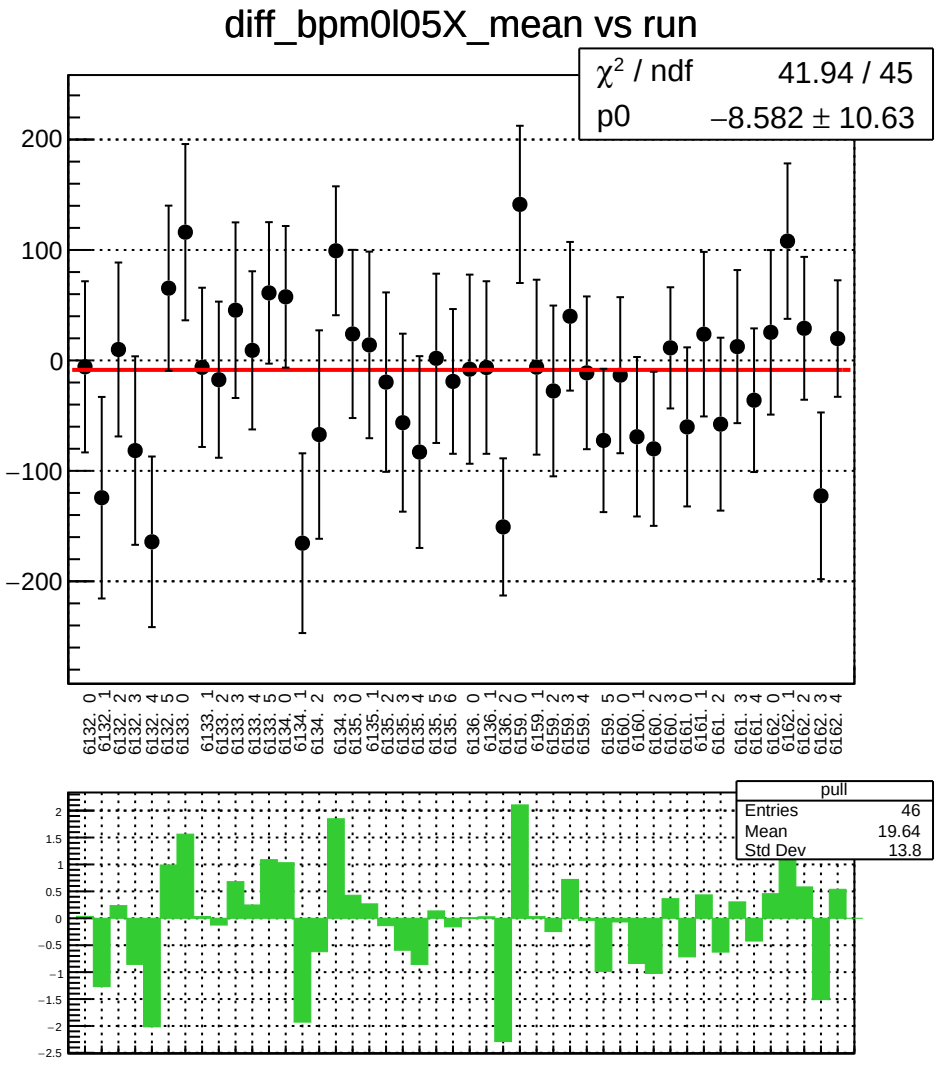

pull1D
Entries 46
Mean −0.01349
Std Dev 0.9837

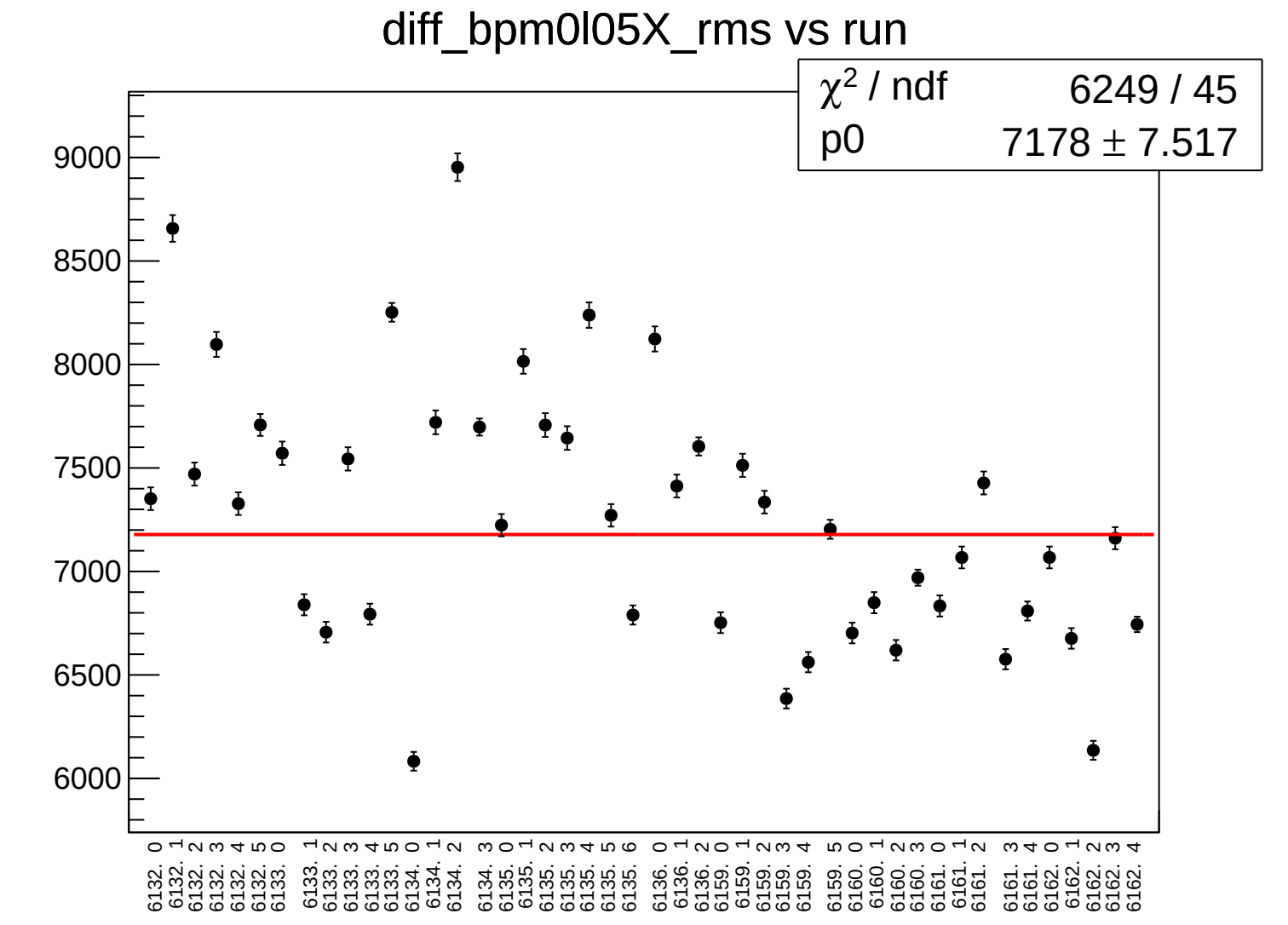

diff_bpm0l04X_rms vs run
χ² / ndf 121.5 / 45
p0 1.017e+04 ± 10.62
10500
10400
10300
10200
10100
10000
9900
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

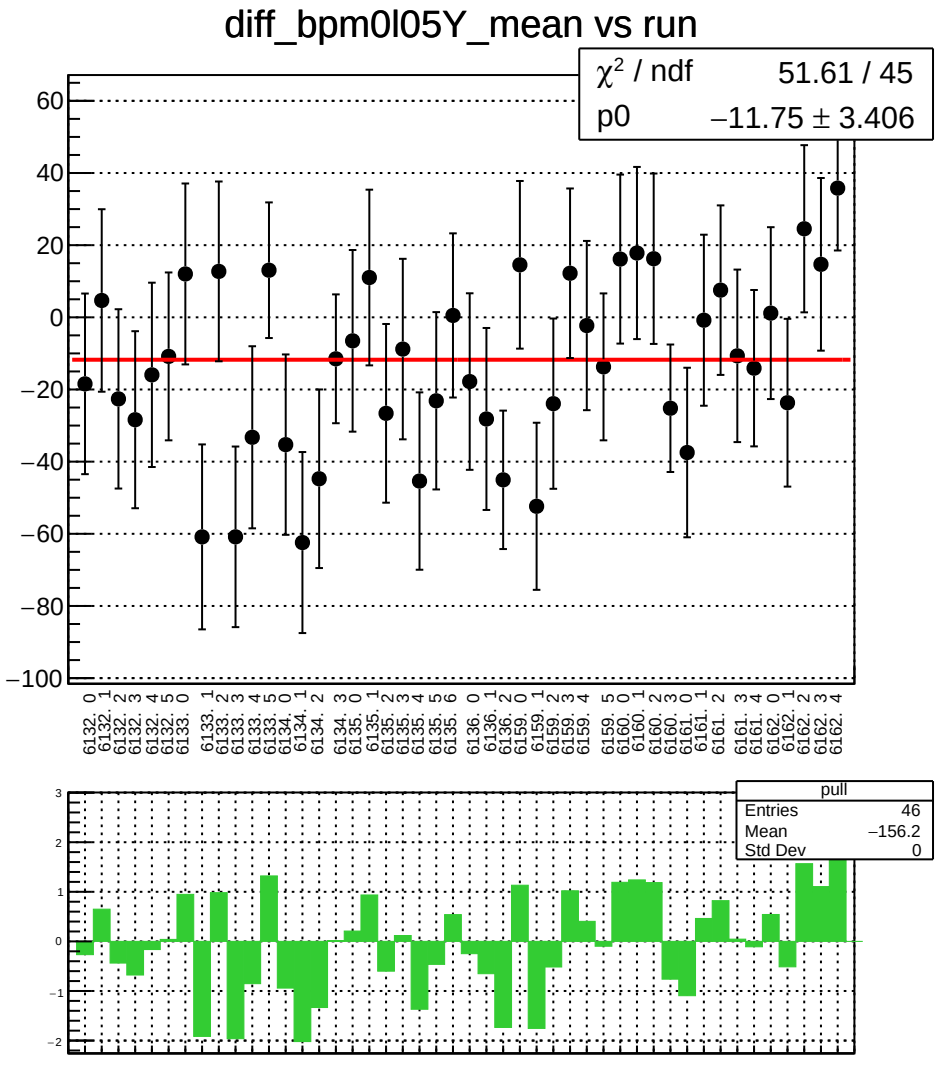

diff_bpm0l04Y_mean vs run
χ² / ndf 42.85 / 45
p0 3.566 ± 1.424
pull
Entries 46
Mean 371.9
Std Dev 0

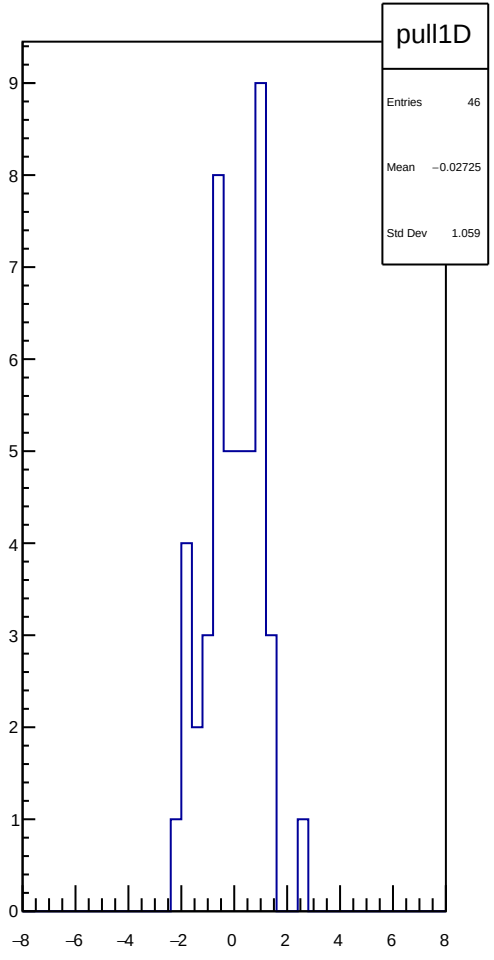

pull1D
Entries 46
Mean 0.01508
Std Dev 0.9651

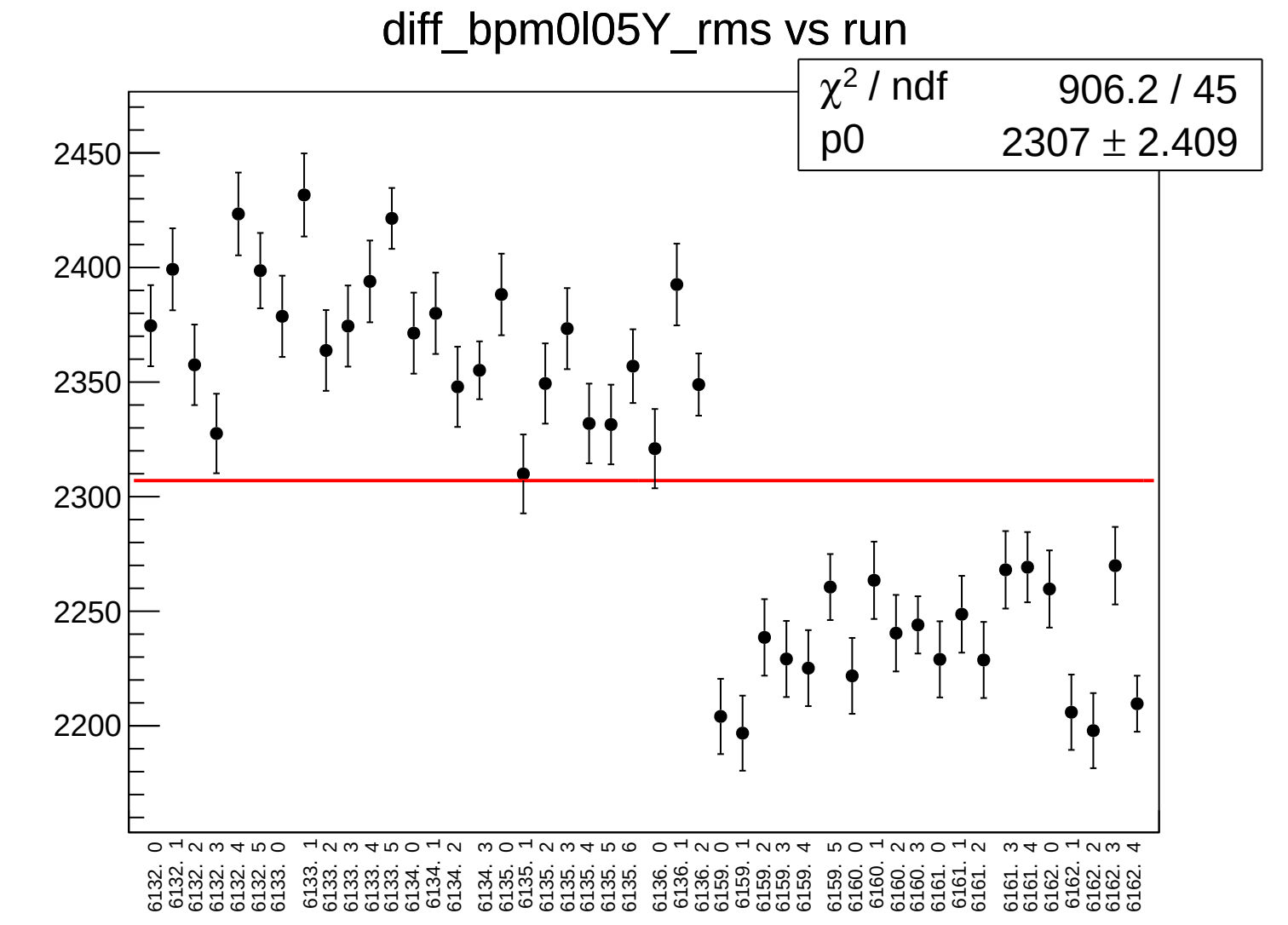

diff_bpm0l04Y_rms vs run
χ² / ndf 1059 / 45
p0 964.3 ± 1.007
1100
1050
1000
950
900
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

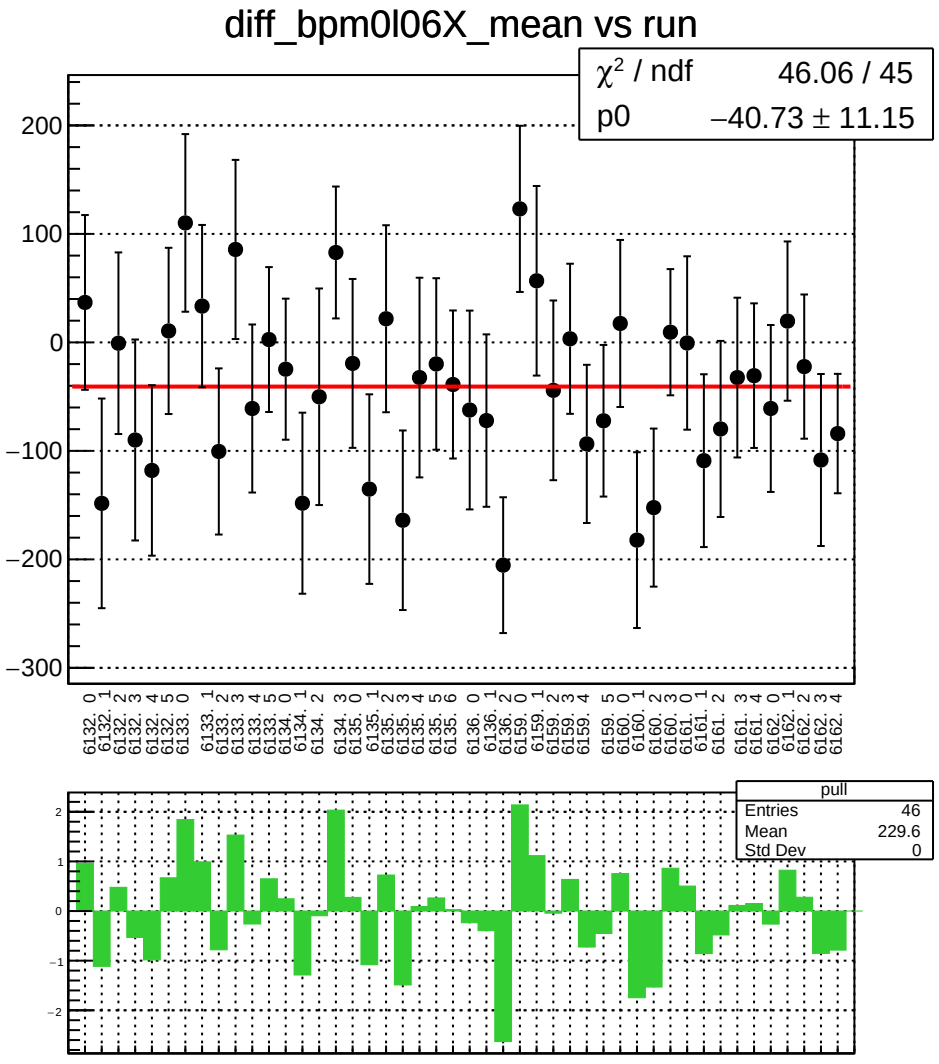

diff_bpm0l05X_mean vs run
χ^2 / ndf 41.94 / 45
p0 −8.582 ± 10.63
200
100
0
−100
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 19.64
Std Dev 13.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.03289
Std Dev 0.9543
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

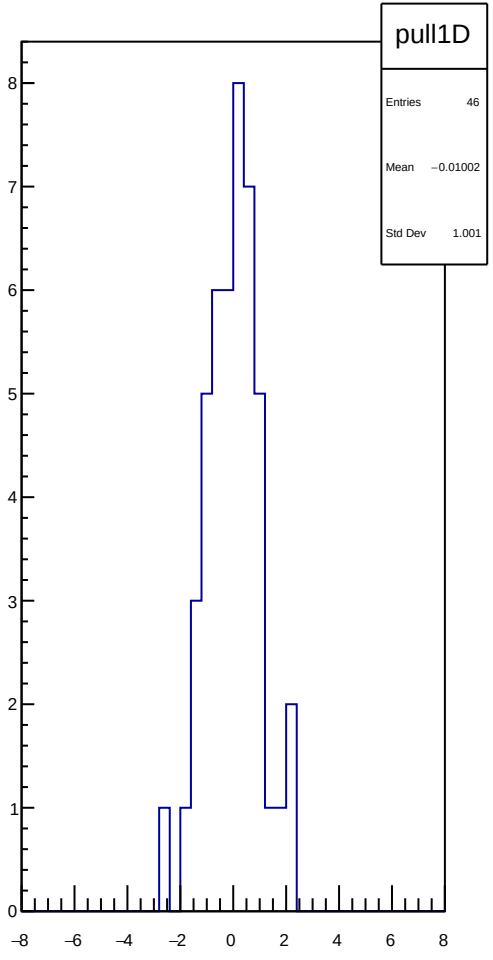

diff_bpm0l05X_rms vs run
χ² / ndf 6249 / 45
p0 7178 ± 7.517
9000
8500
8000
7500
7000
6500
6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

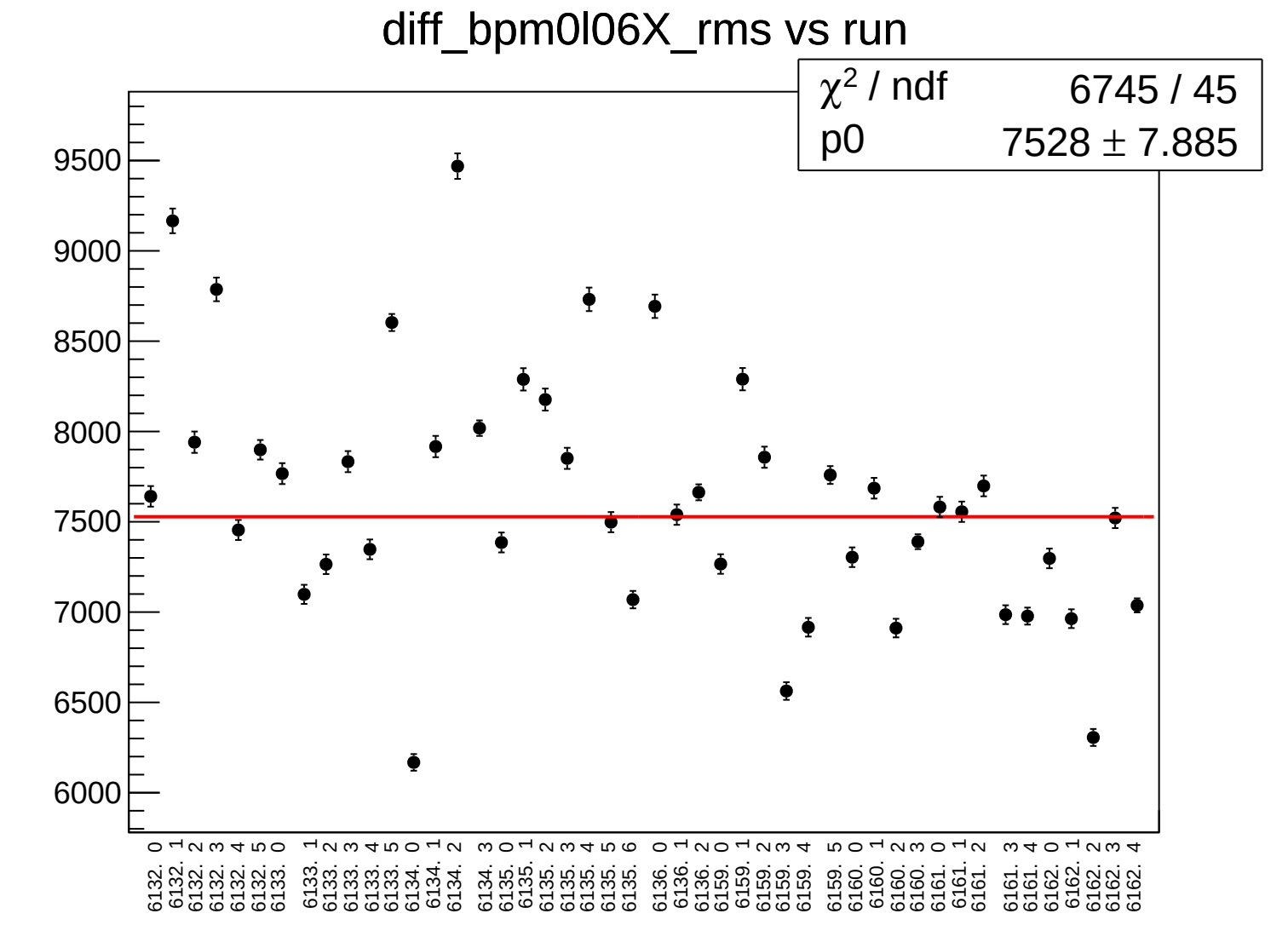

diff_bpm0l05Y_mean vs run
χ² / ndf 51.61 / 45
p0 −11.75 ± 3.406
pull
Entries 46
Mean −156.2
Std Dev 0

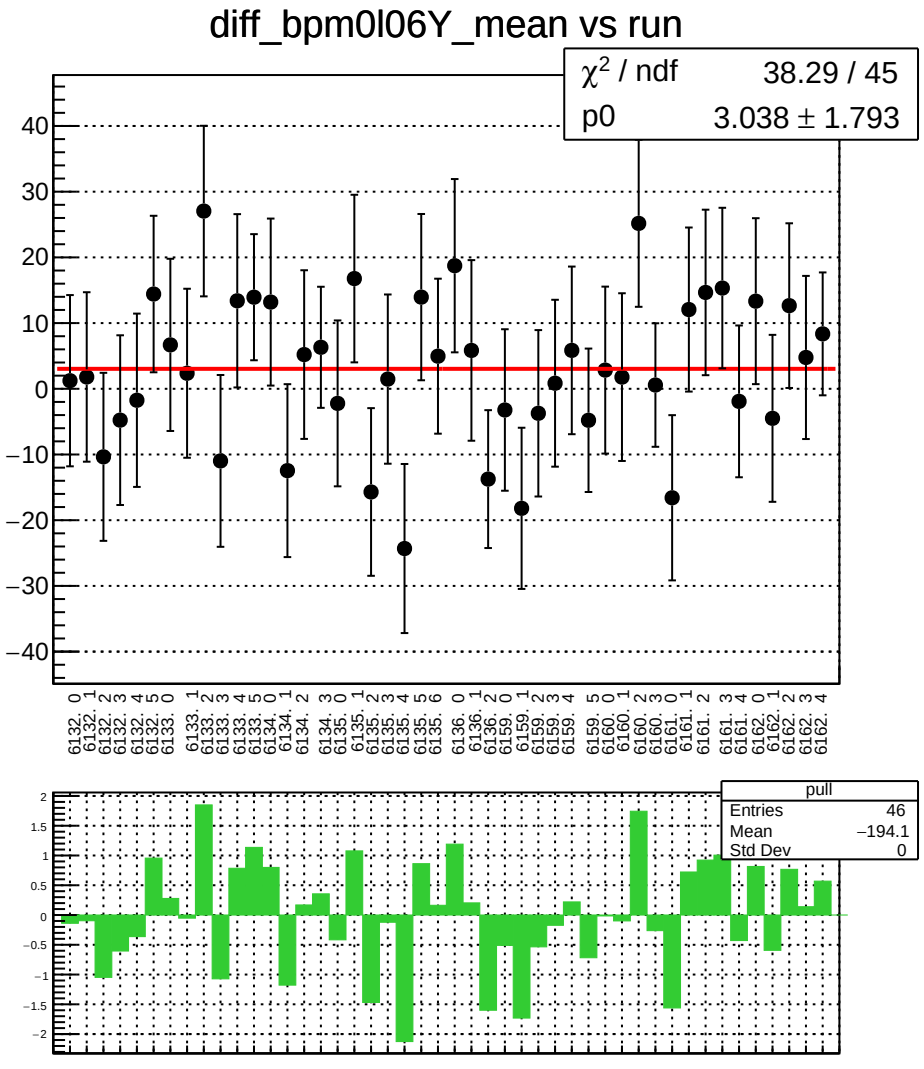

pull1D
Entries 46
Mean −0.02725
Std Dev 1.059

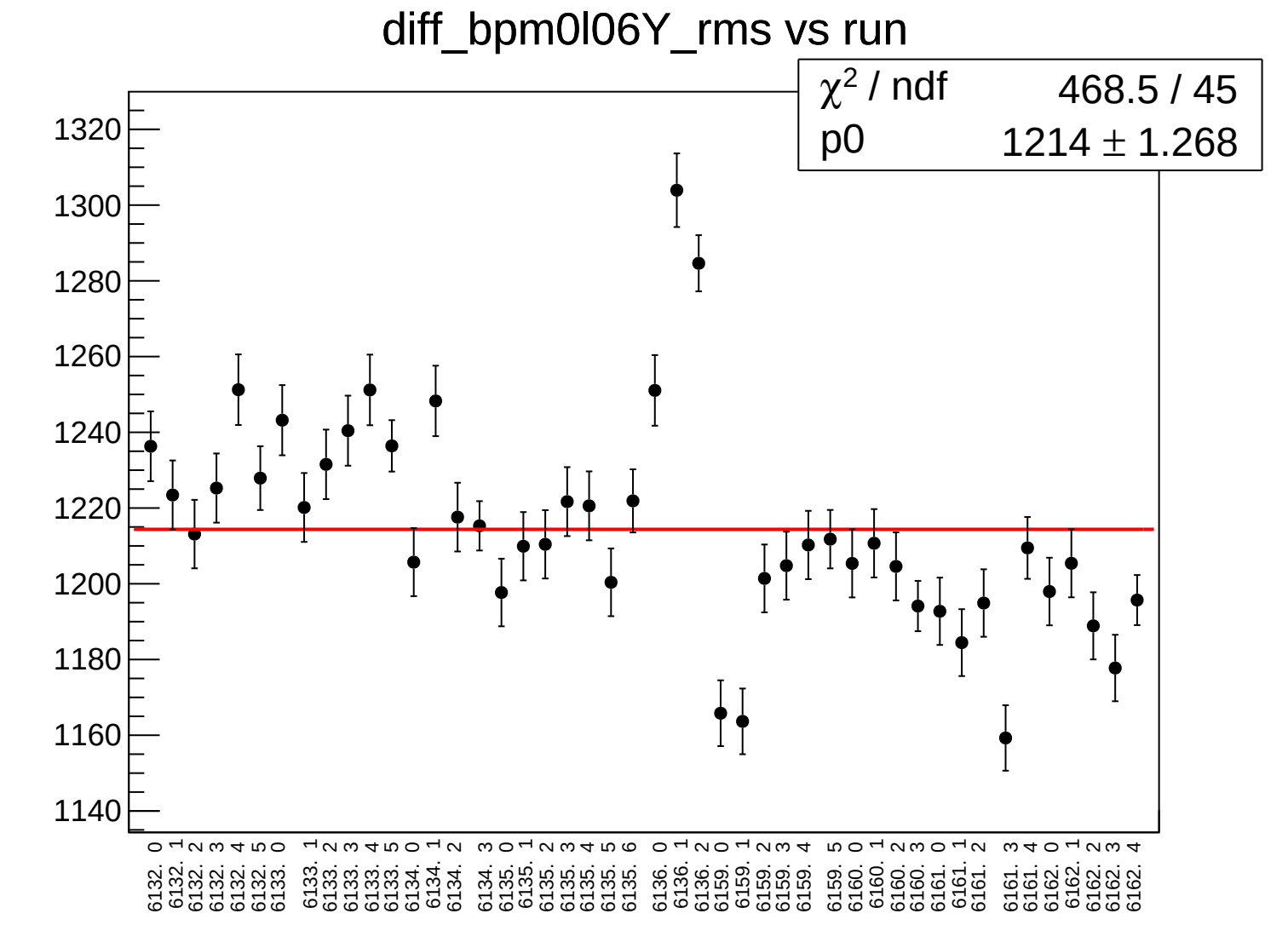

diff_bpm0l05Y_rms vs run
χ² / ndf 906.2 / 45
p0 2307 ± 2.409
2450
2400
2350
2300
2250
2200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

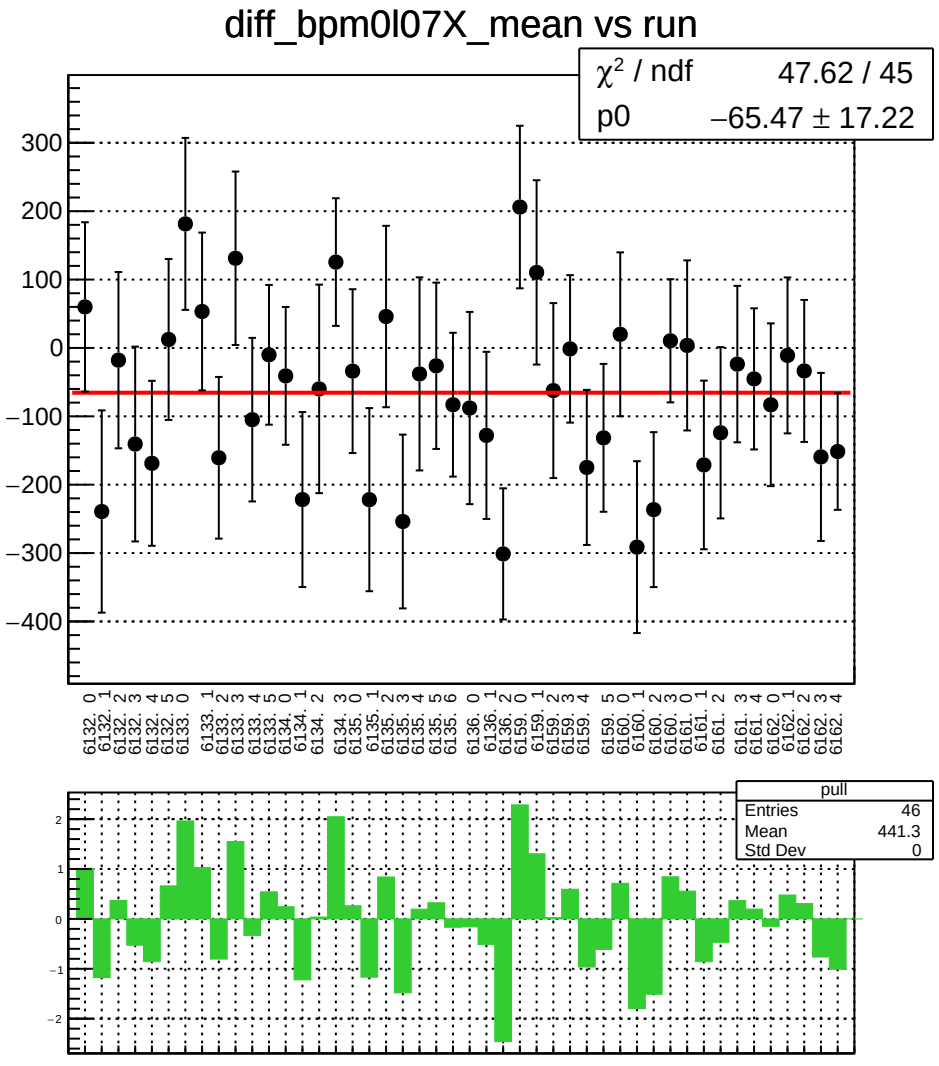

diff_bpm0l06X_mean vs run
χ² / ndf 46.06 / 45
p0 −40.73 ± 11.15
200
100
0
−100
−200
−300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 229.6
Std Dev 0
2
1
0
−1
−2

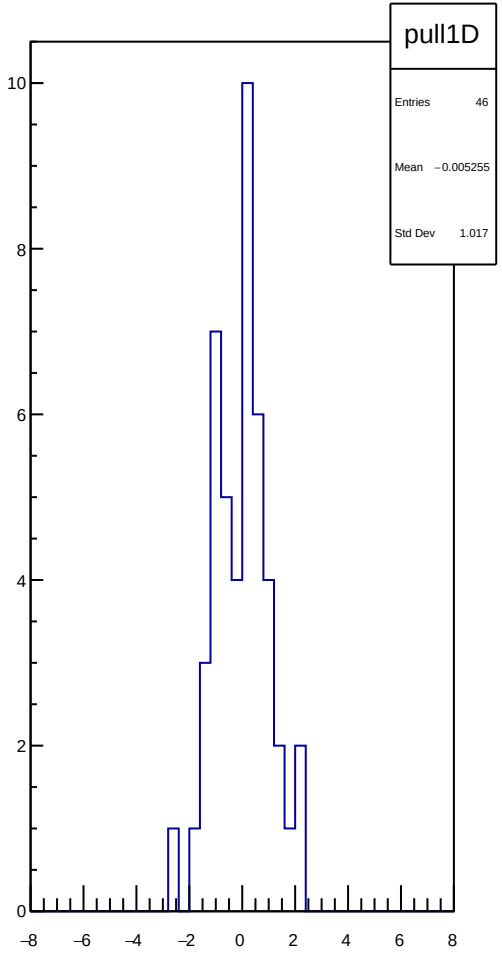

pull1D
Entries 46
Mean −0.01002
Std Dev 1.001
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

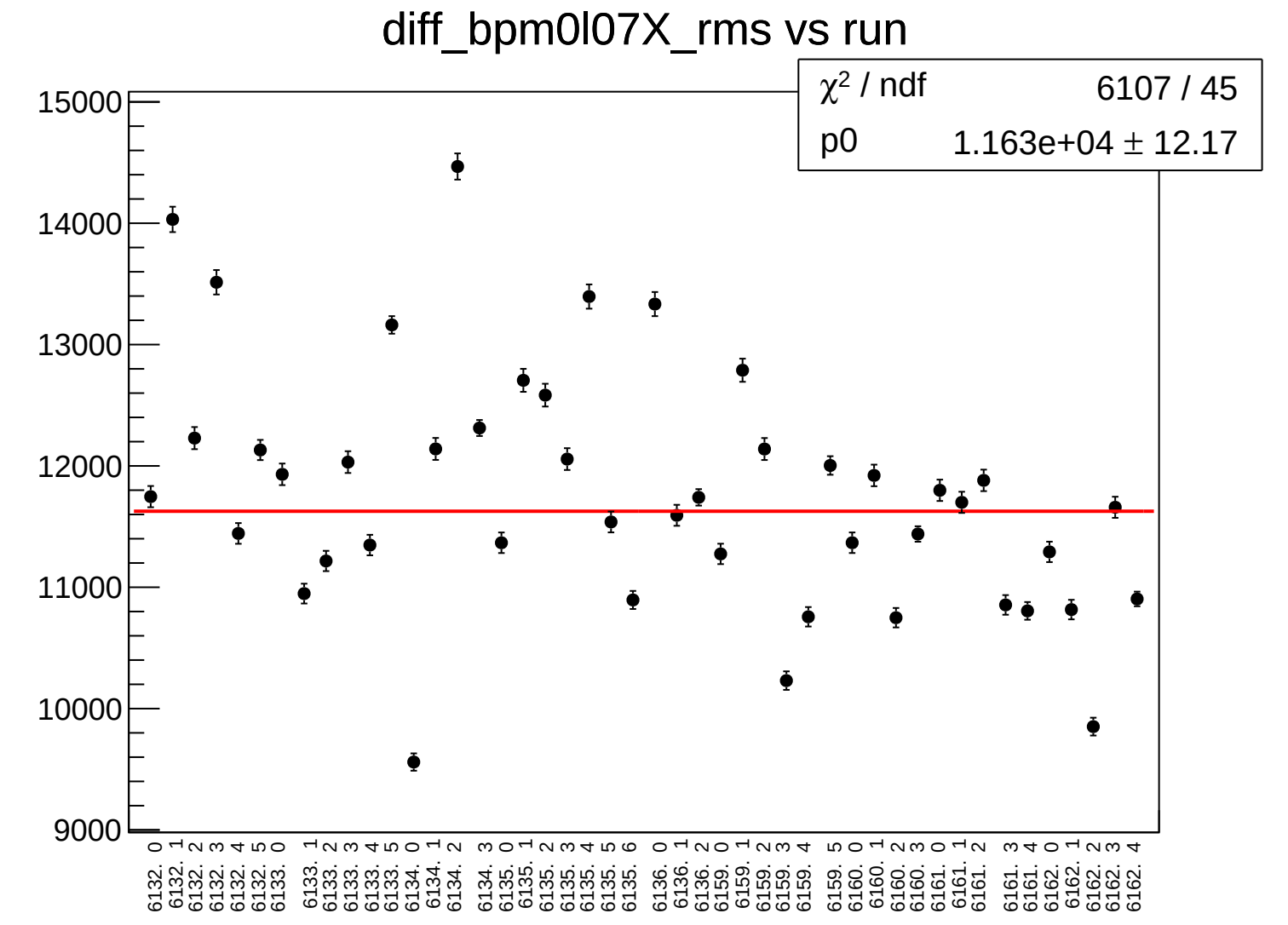

diff_bpm0l06X_rms vs run
χ² / ndf 6745 / 45
p0 7528 ± 7.885
9500
9000
8500
8000
7500
7000
6500
6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

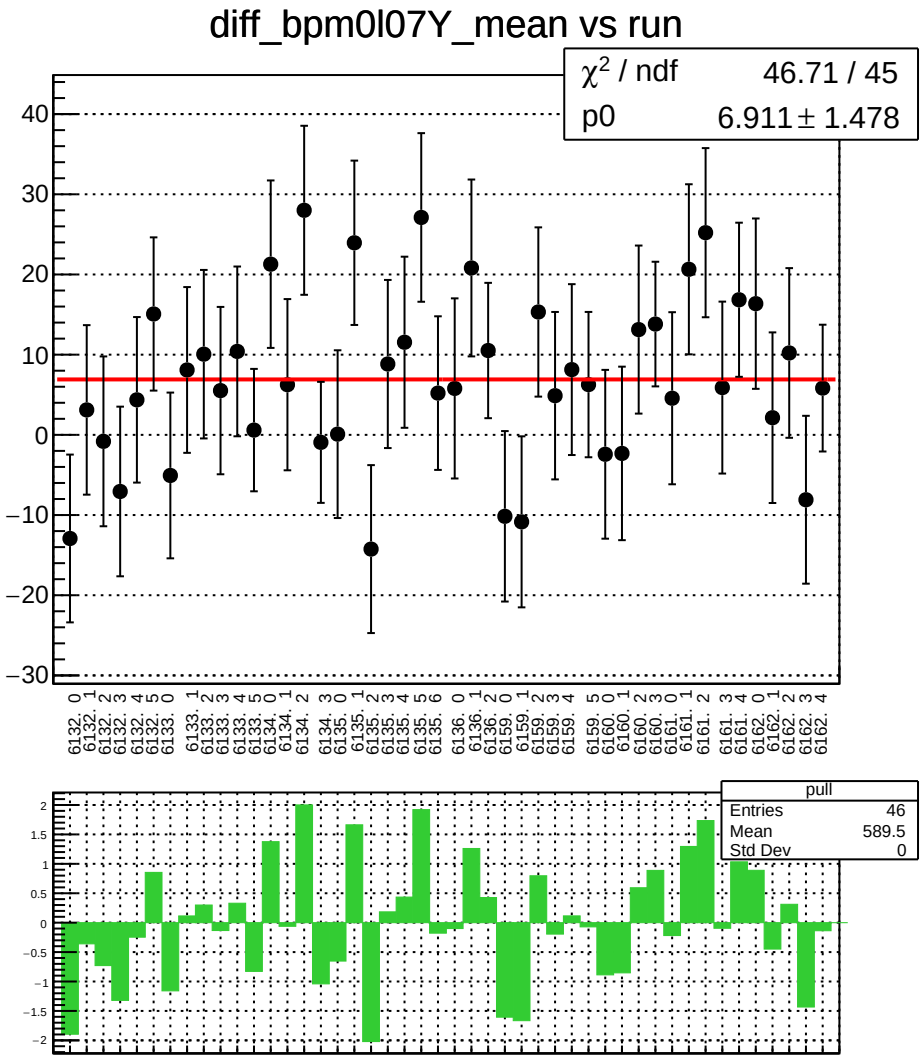

diff_bpm0l06Y_mean vs run
χ² / ndf 38.29 / 45
p0 3.038 ± 1.793
pull
Entries 46
Mean −194.1
Std Dev 0
pull1D
Entries 46
Mean −0.003818
Std Dev 0.9124

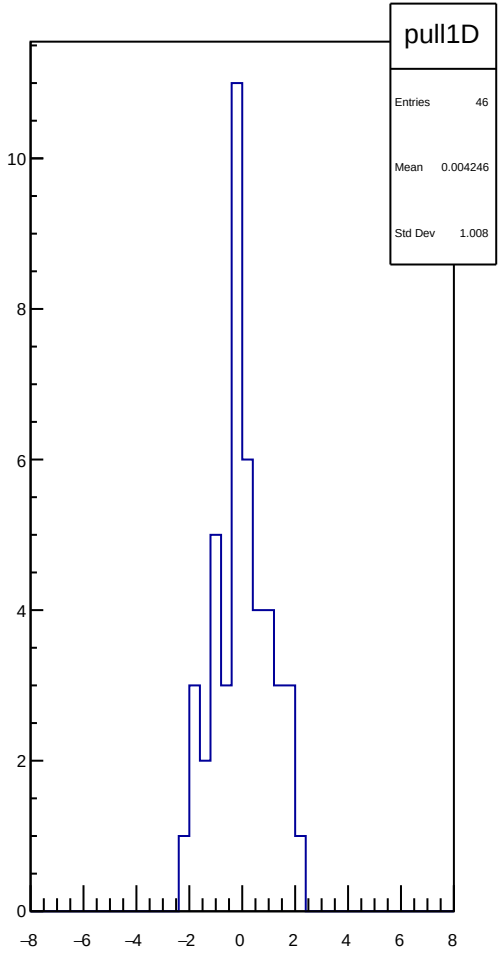

diff_bpm0l06Y_rms vs run
χ² / ndf 468.5 / 45
p0 1214 ± 1.268
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

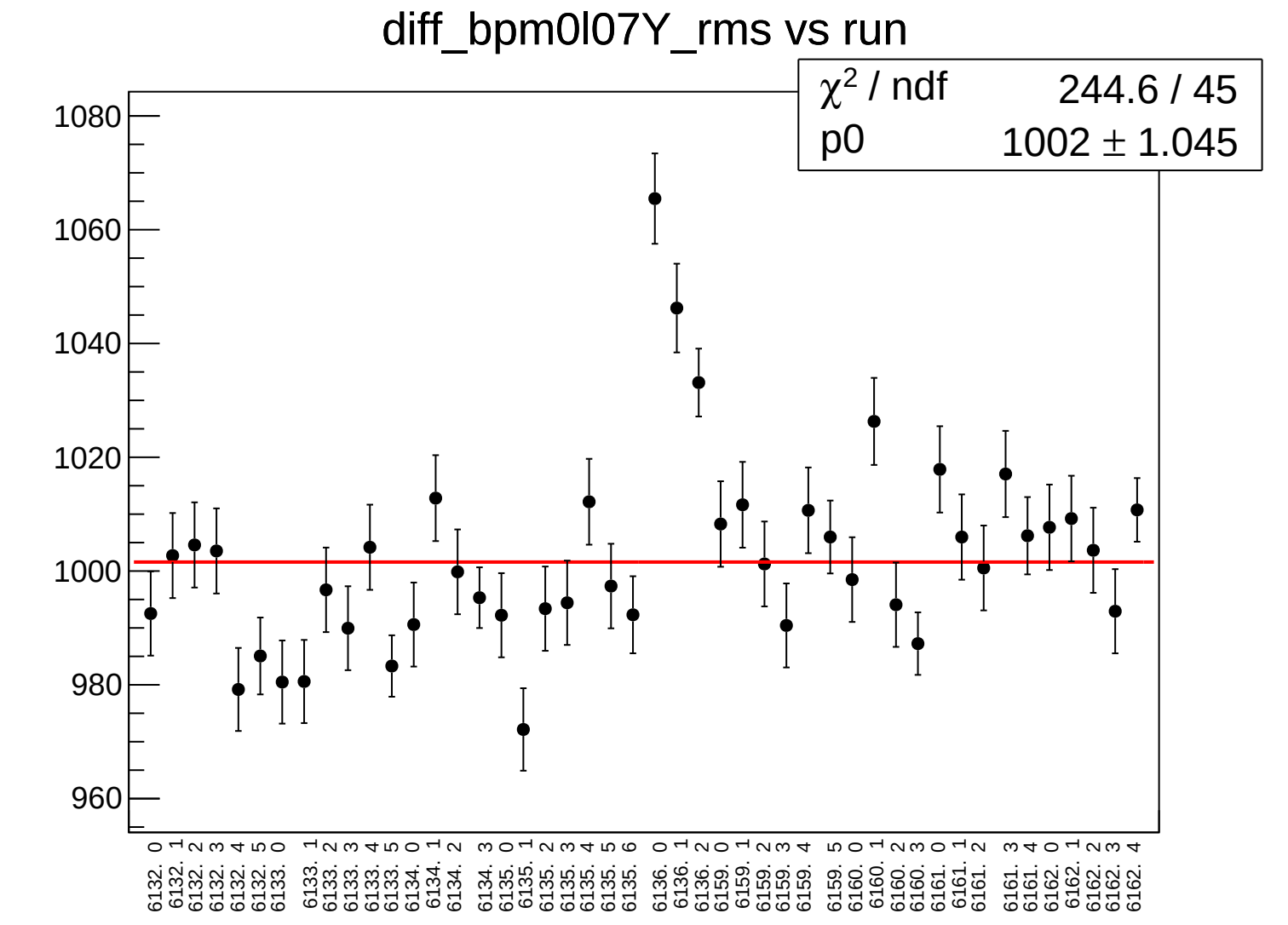

diff_bpm0l07X_mean vs run
χ² / ndf 47.62 / 45
p0 −65.47 ± 17.22
300
200
100
0
−100
−200
−300
−400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 441.3
Std Dev 0
2
1
0
−1
−2

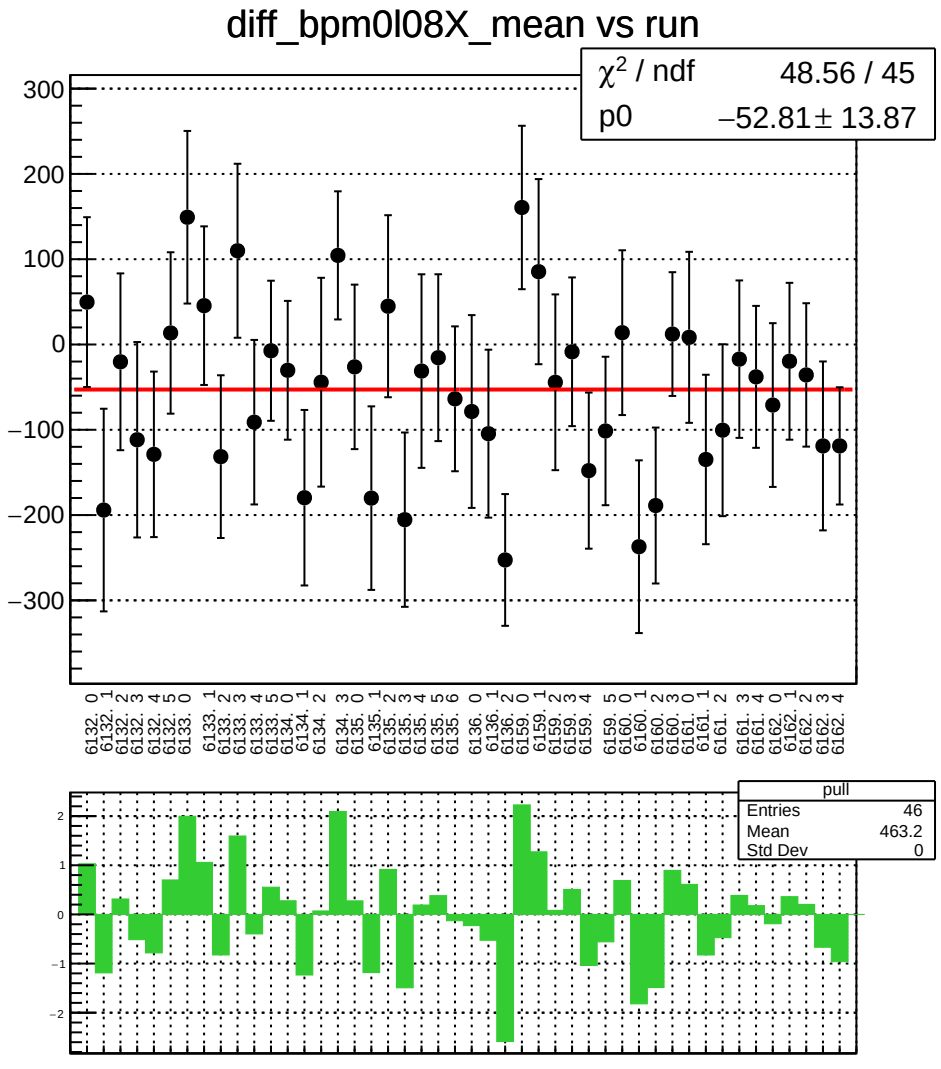

pull1D
Entries 46
Mean −0.005255
Std Dev 1.017
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

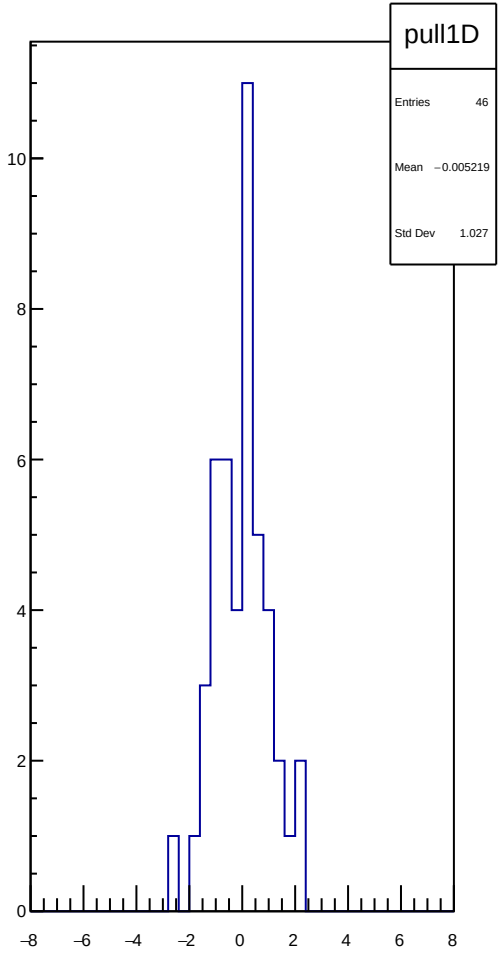

diff_bpm0l07X_rms vs run
χ² / ndf 6107 / 45
p0 1.163e+04 ± 12.17
15000
14000
13000
12000
11000
10000
9000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

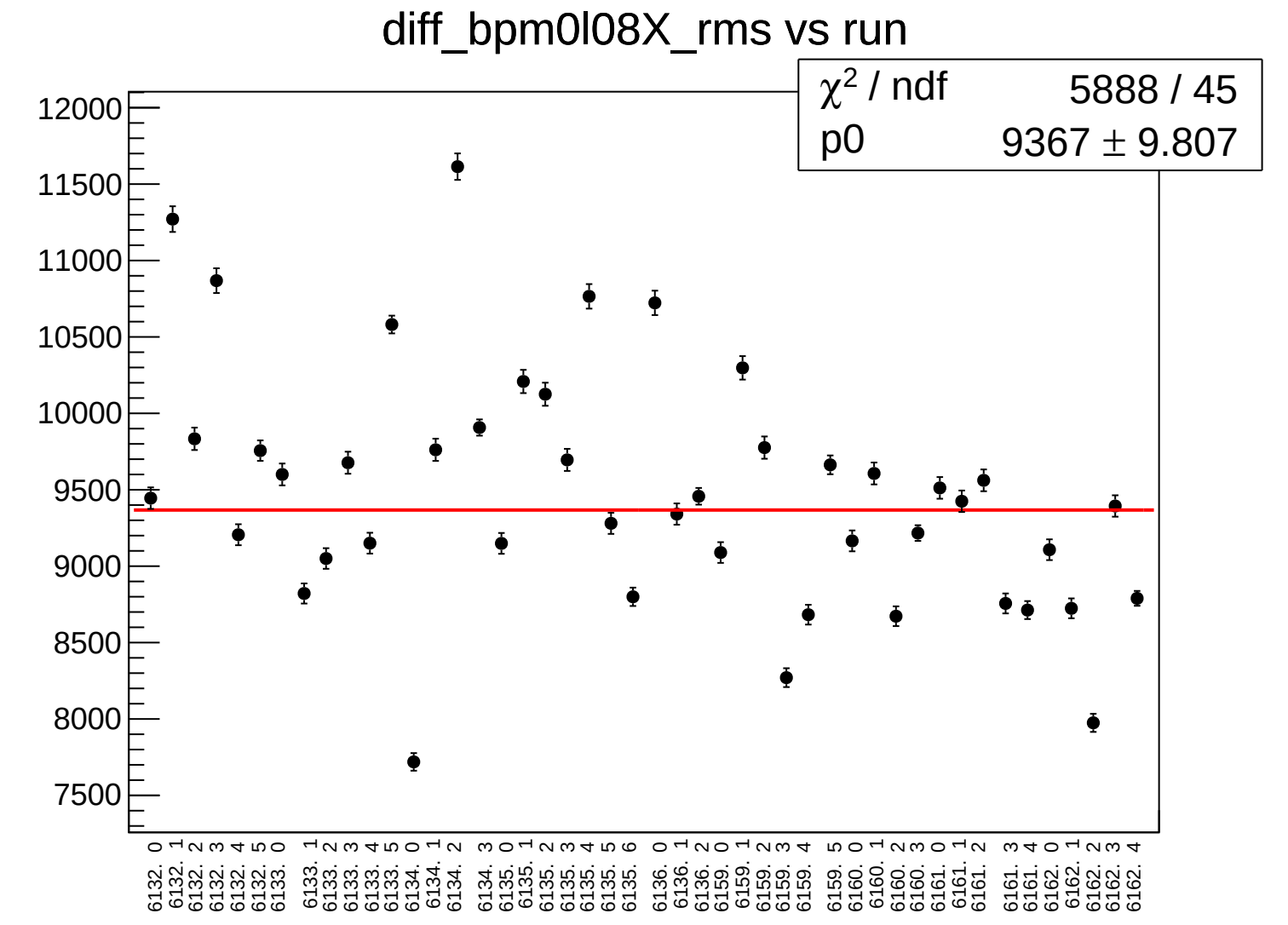

diff_bpm0l07Y_mean vs run
χ^2 / ndf 46.71 / 45
p0 6.911 ± 1.478
pull
Entries 46
Mean 589.5
Std Dev 0

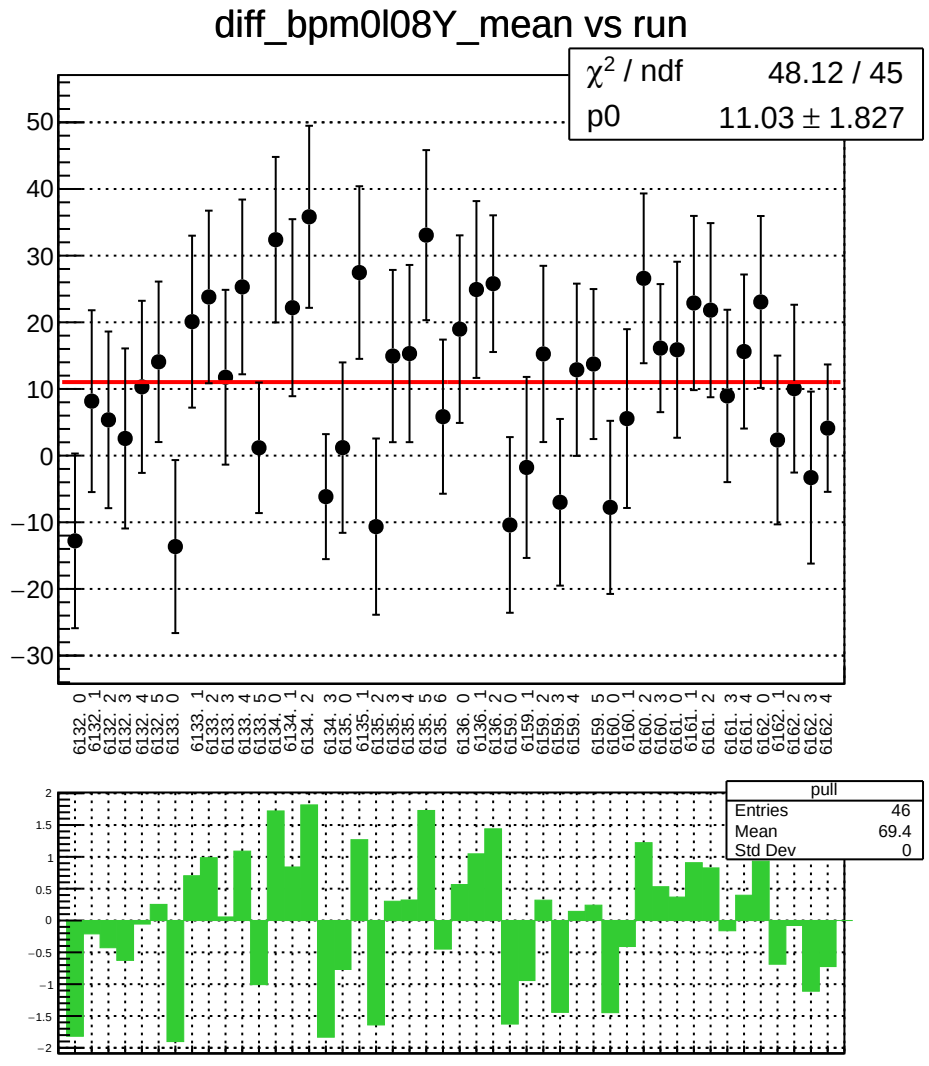

pull1D
Entries 46
Mean 0.004246
Std Dev 1.008

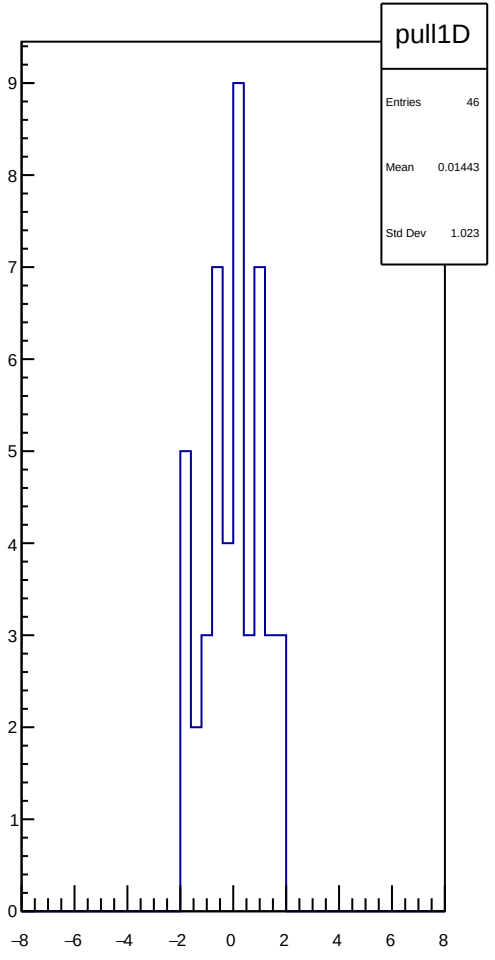

diff_bpm0l07Y_rms vs run
χ² / ndf 244.6 / 45
p0 1002 ± 1.045
1080
1060
1040
1020
1000
980
960
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

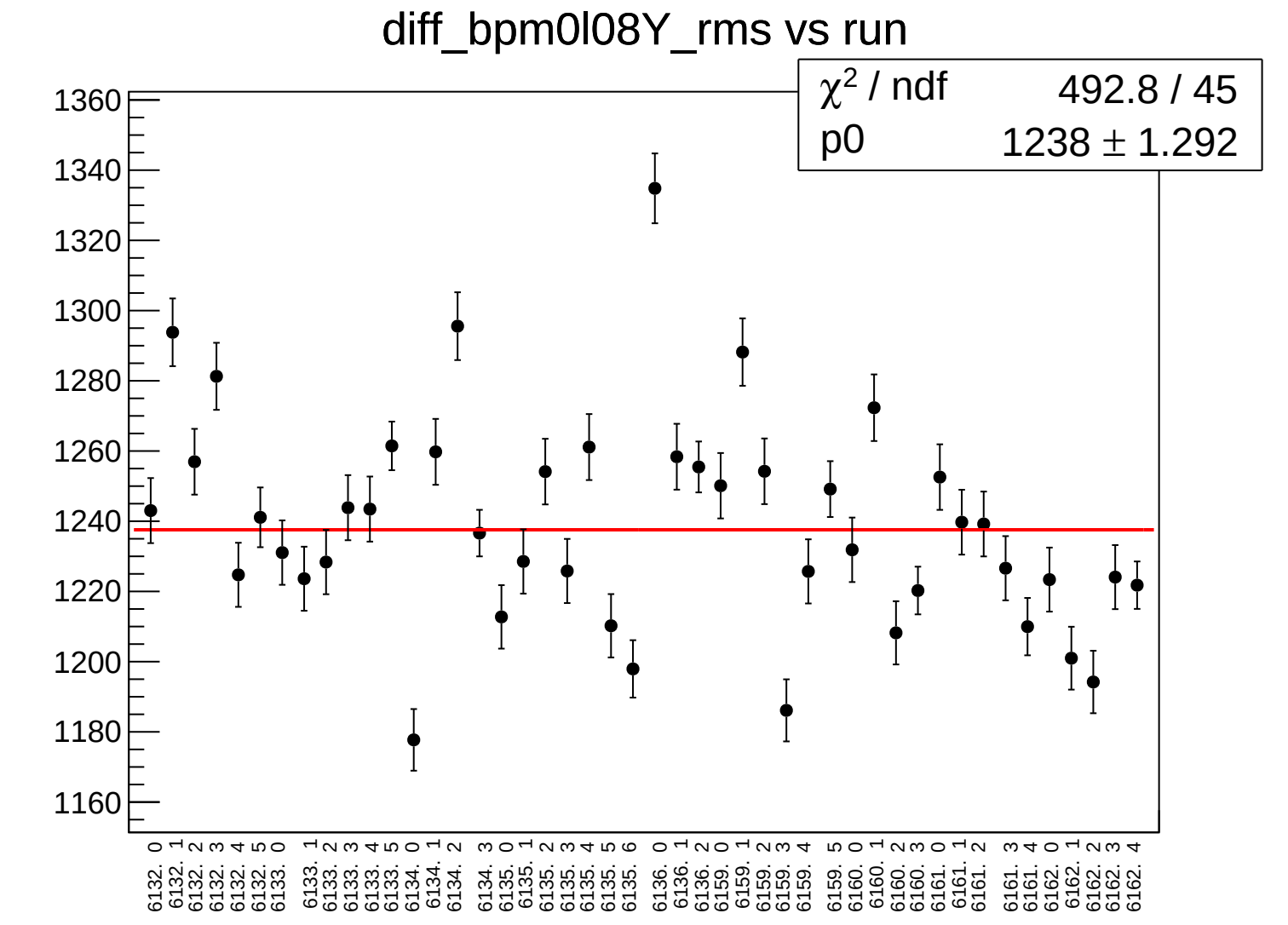

diff_bpm0l08X_mean vs run
χ² / ndf 48.56 / 45
p0 −52.81± 13.87
300
200
100
0
−100
−200
−300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 463.2
Std Dev 0
2
1
0
−1
−2

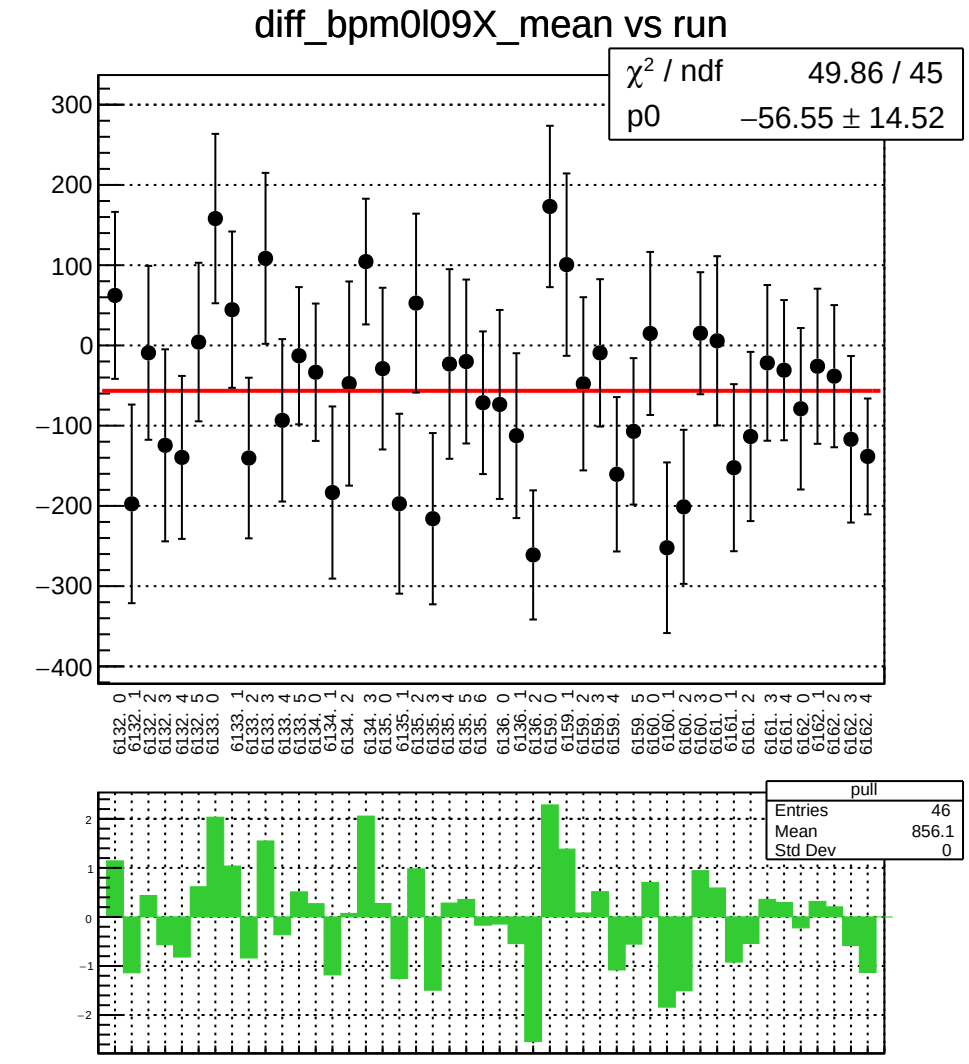

pull1D
Entries 46
Mean −0.005219
Std Dev 1.027
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

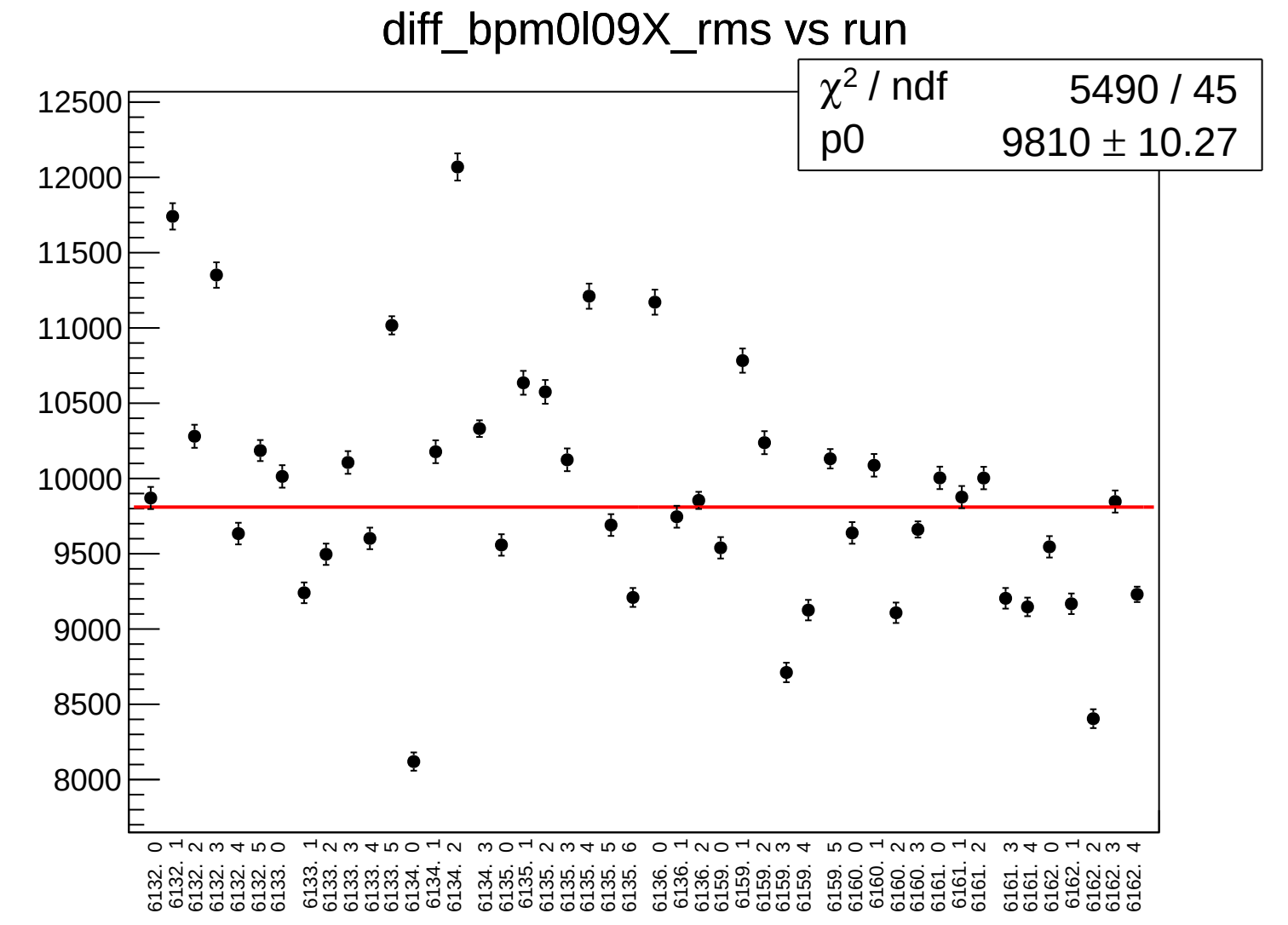

diff_bpm0l08X_rms vs run
χ² / ndf 5888 / 45
p0 9367 ± 9.807
12000
11500
11000
10500
10000
9500
9000
8500
8000
7500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

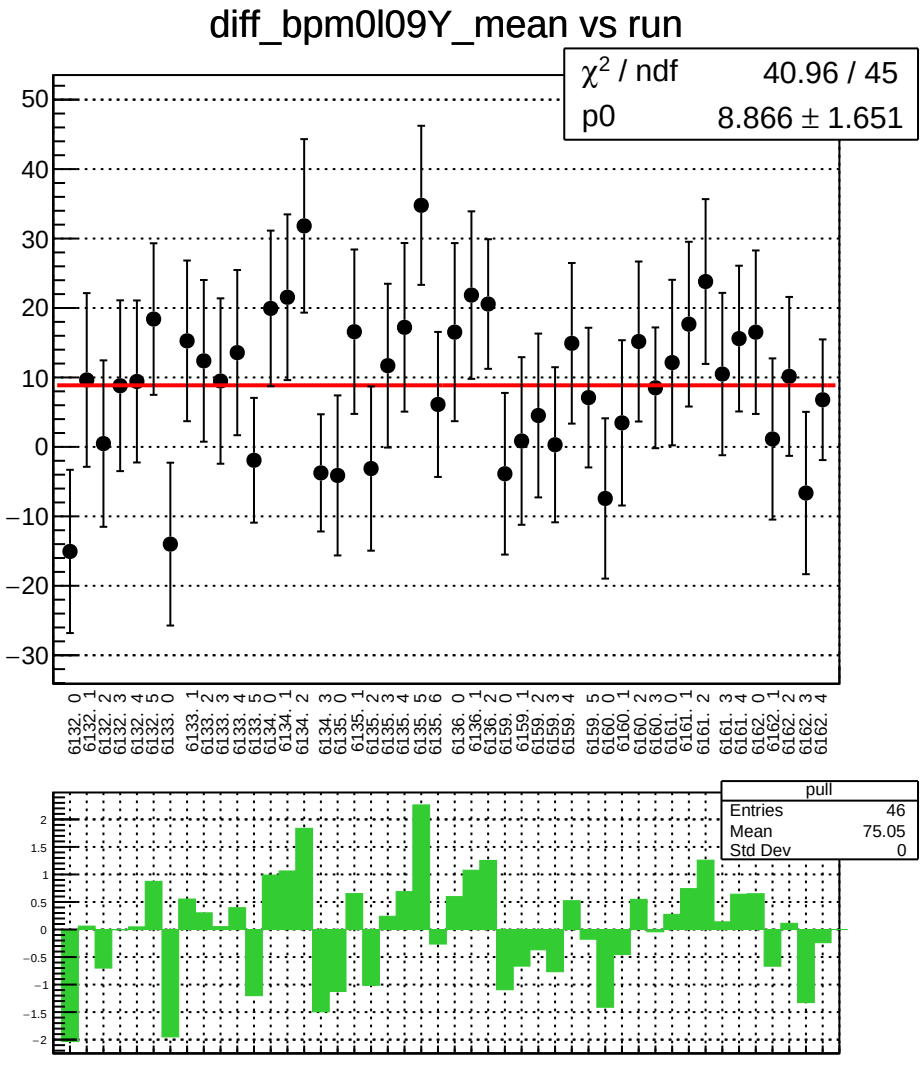

diff_bpm0l08Y_mean vs run
χ² / ndf 48.12 / 45
p0 11.03 ± 1.827
pull
Entries 46
Mean 69.4
Std Dev 0

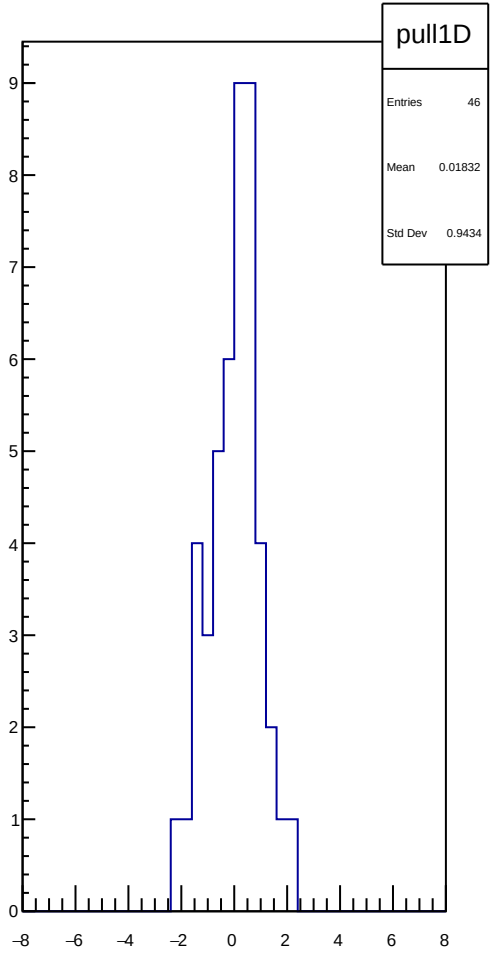

pull1D
Entries 46
Mean 0.01443
Std Dev 1.023

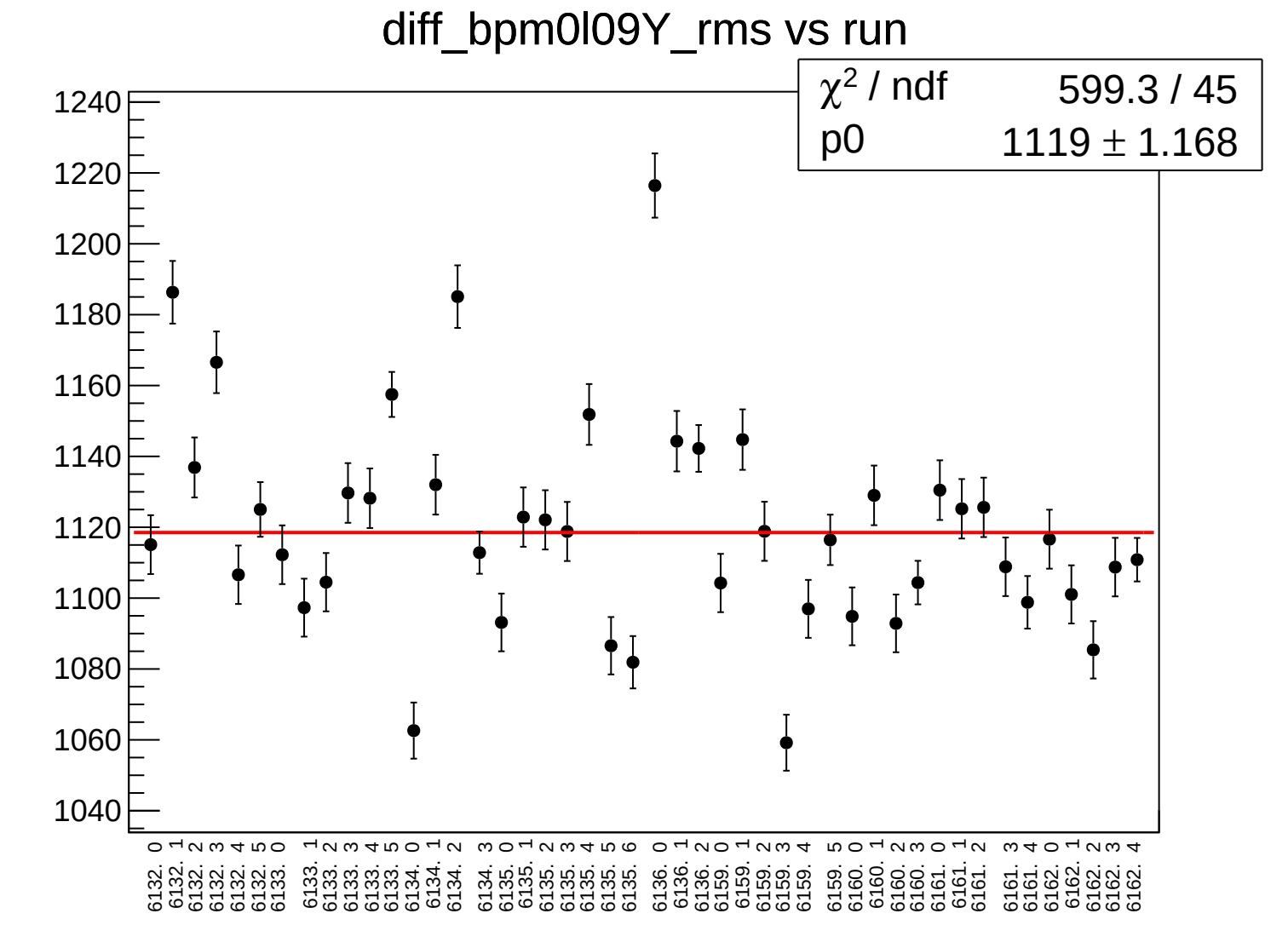

diff_bpm0l08Y_rms vs run
χ² / ndf 492.8 / 45
p0 1238 ± 1.292
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

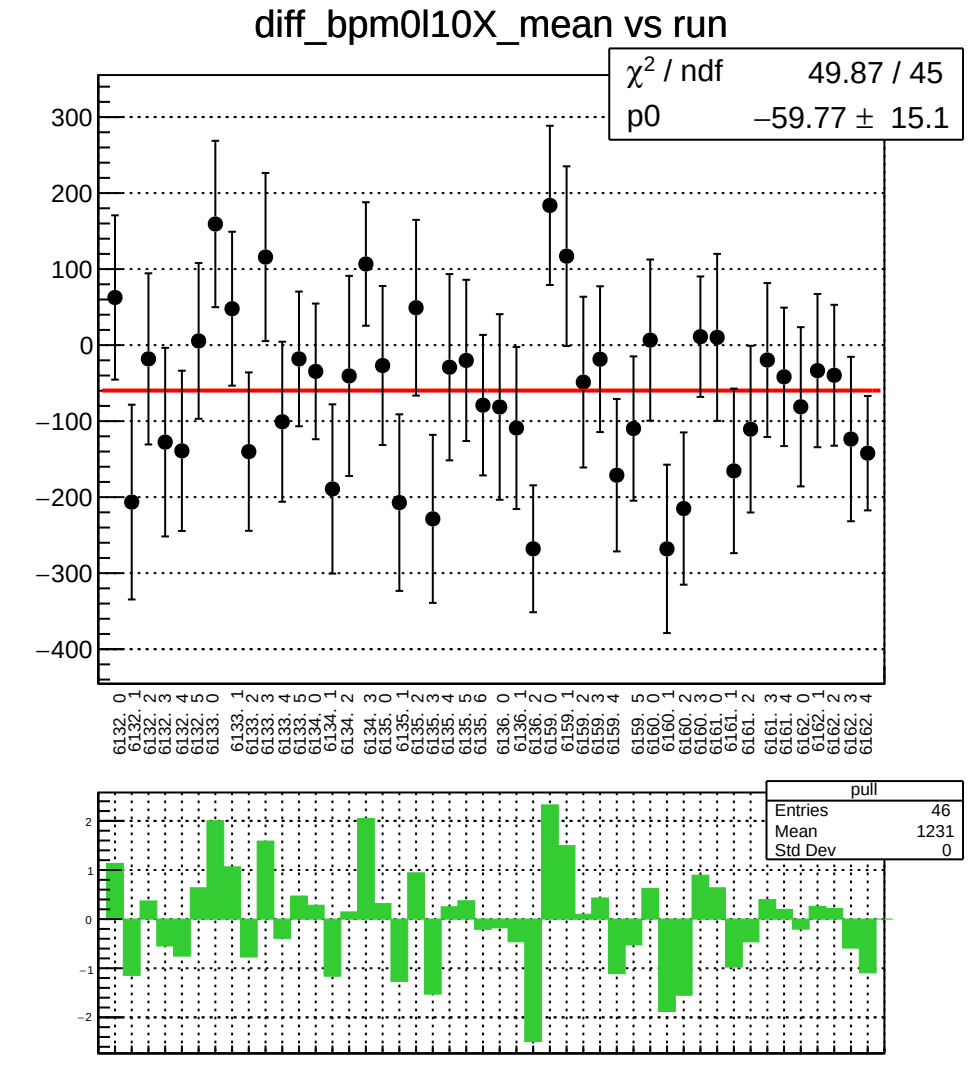

diff_bpm0l09X_mean vs run
χ² / ndf 49.86 / 45
p0 −56.55 ± 14.52
pull
Entries 46
Mean 856.1
Std Dev 0
pull1D
Entries 46
Mean −0.002922
Std Dev 1.041

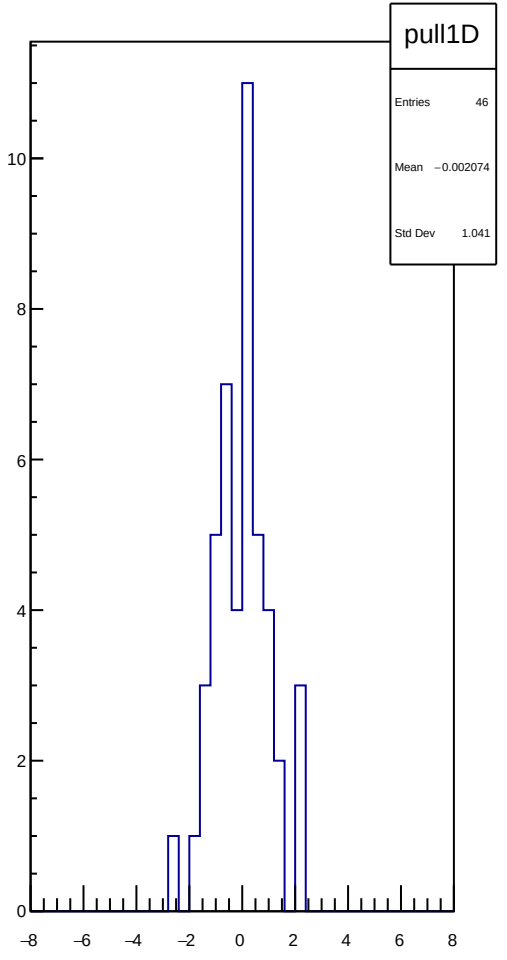

diff_bpm0l09X_rms vs run
χ² / ndf 5490 / 45
p0 9810 ± 10.27
12500
12000
11500
11000
10500
10000
9500
9000
8500
8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

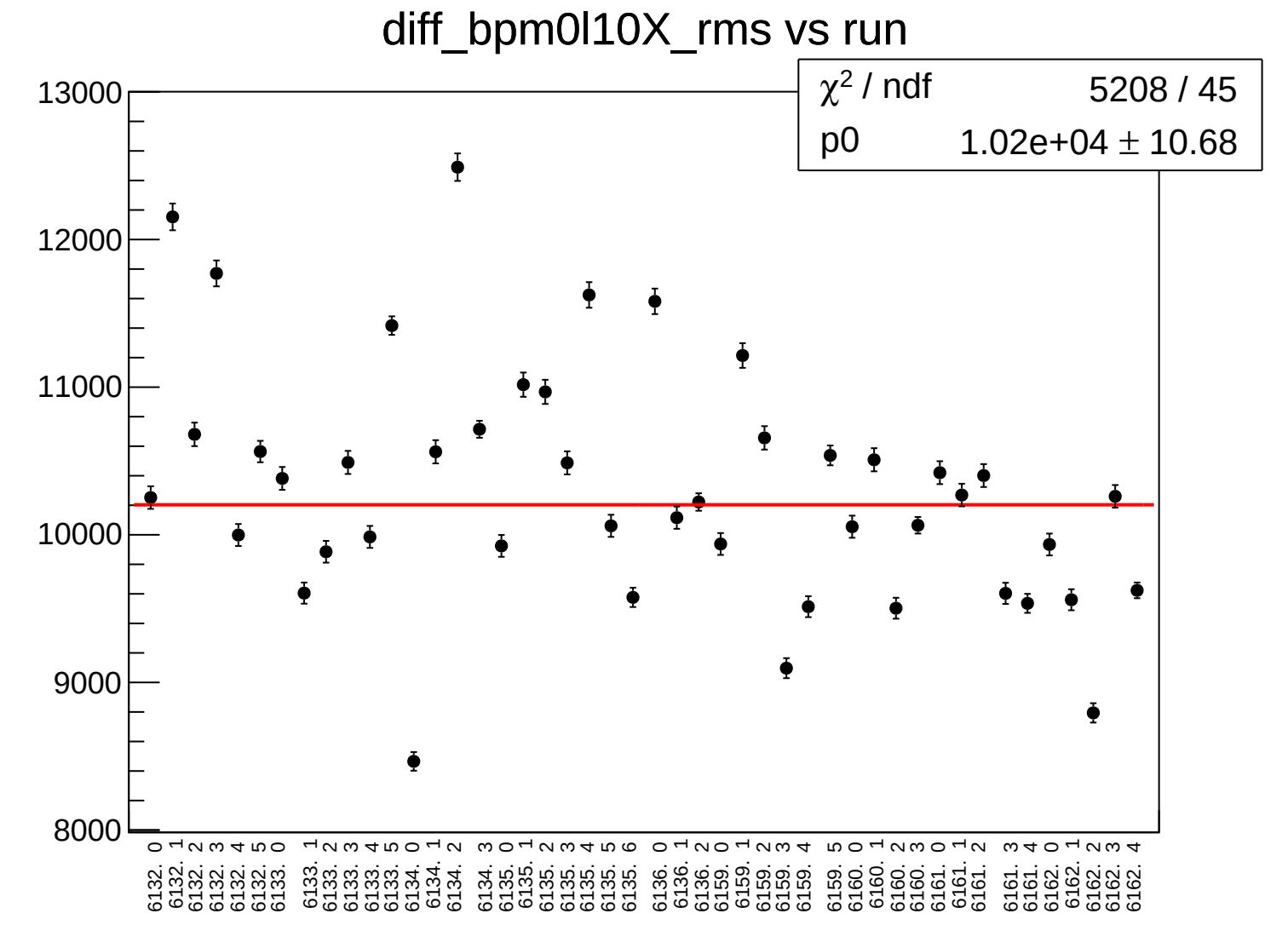

diff_bpm0l09Y_mean vs run
χ^2 / ndf 40.96 / 45
p0 8.866 ± 1.651
pull
Entries 46
Mean 75.05
Std Dev 0

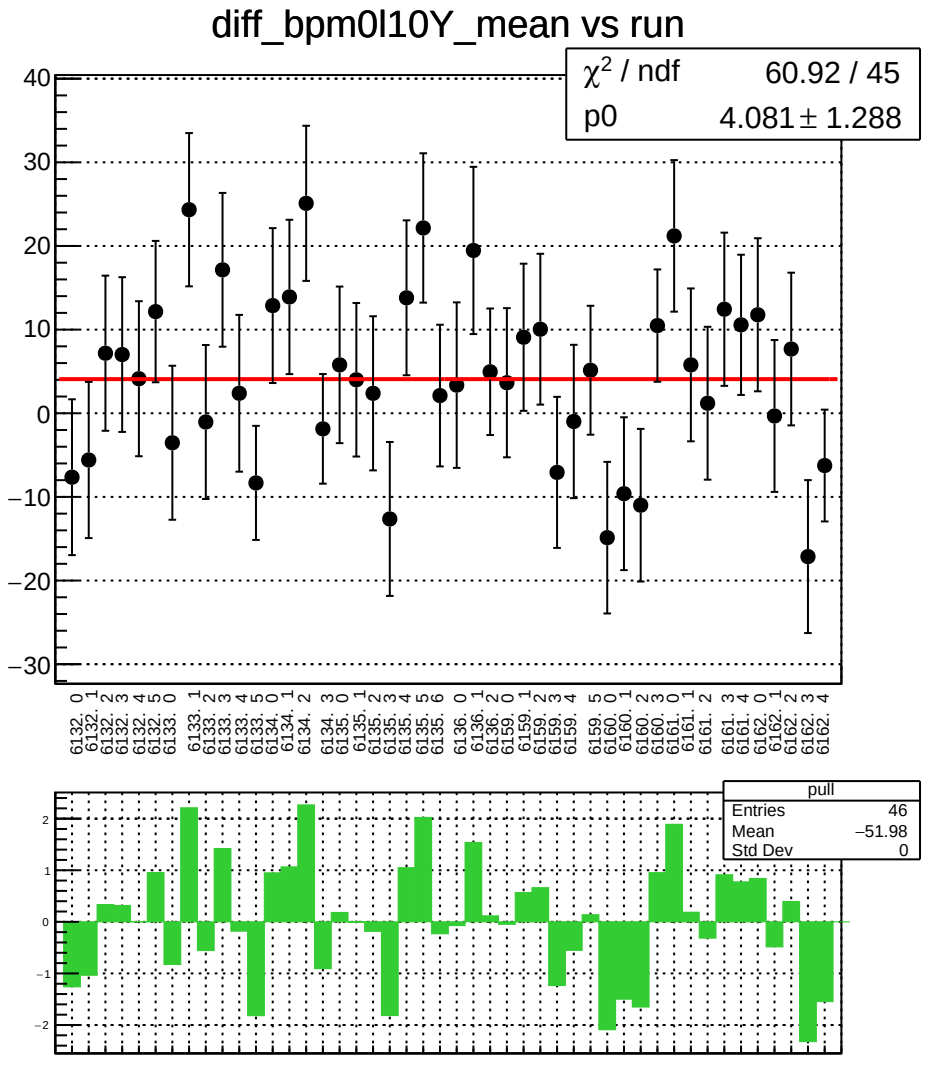

pull1D
Entries 46
Mean 0.01832
Std Dev 0.9434

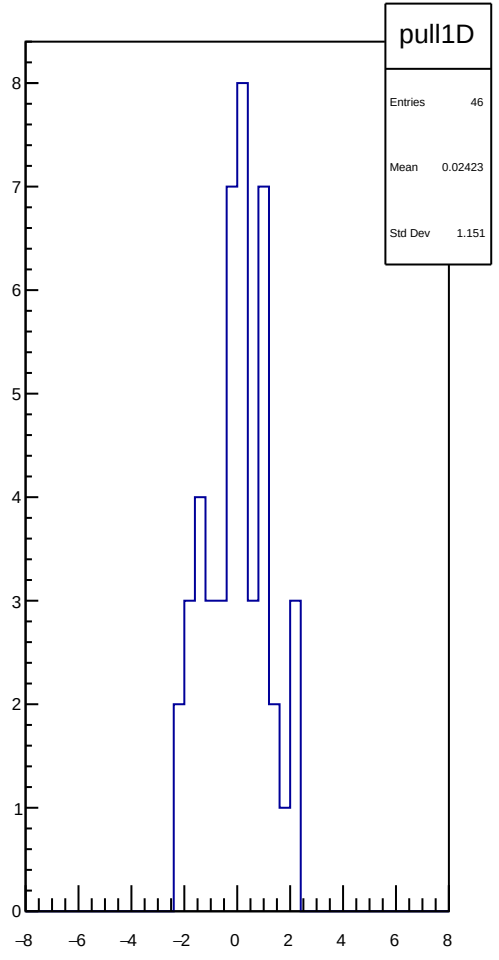

diff_bpm0l09Y_rms vs run
χ² / ndf 599.3 / 45
p0 1119 ± 1.168
1240
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

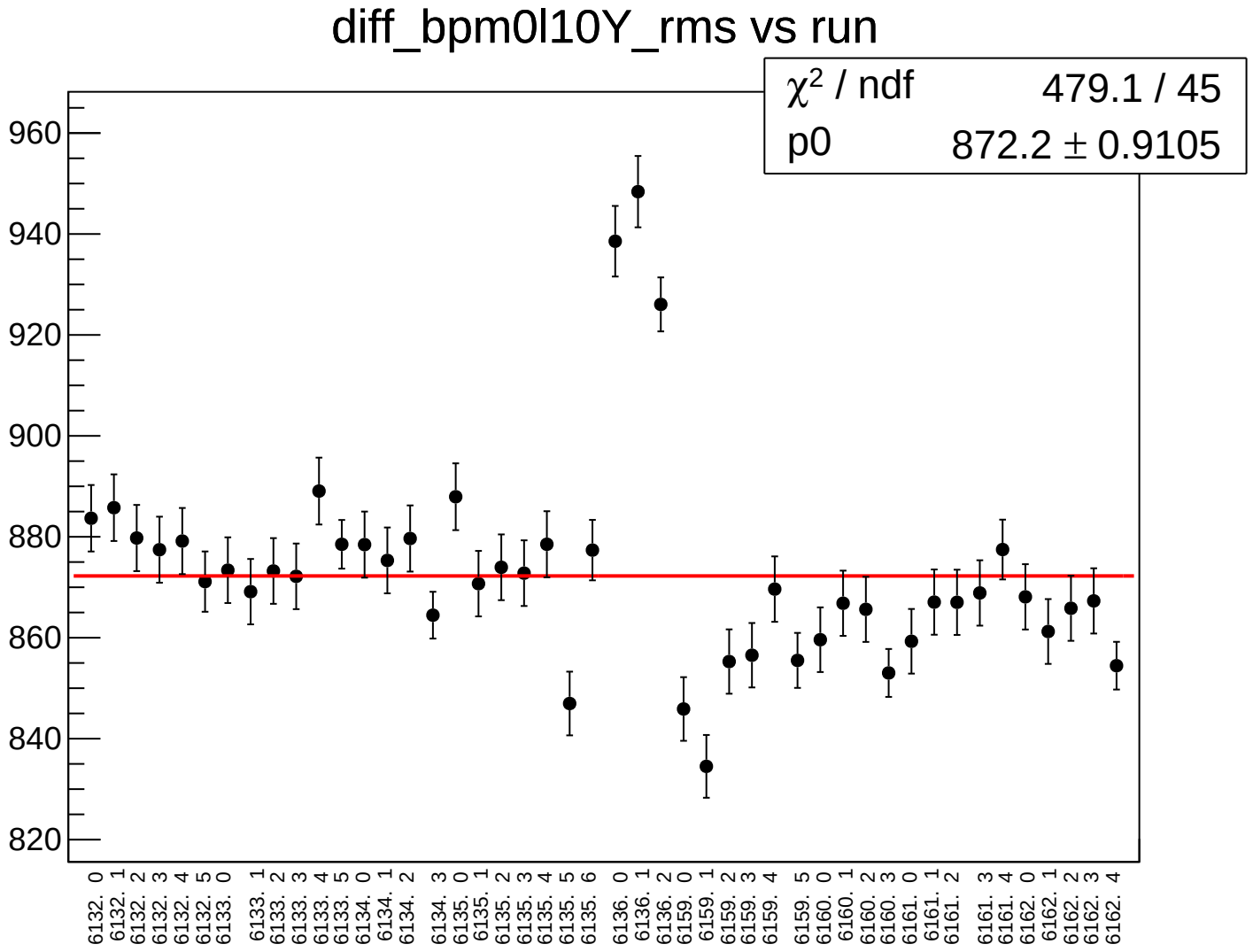

diff_bpm0l10X_mean vs run
χ² / ndf 49.87 / 45
p0 −59.77 ± 15.1
pull
Entries 46
Mean 1231
Std Dev 0

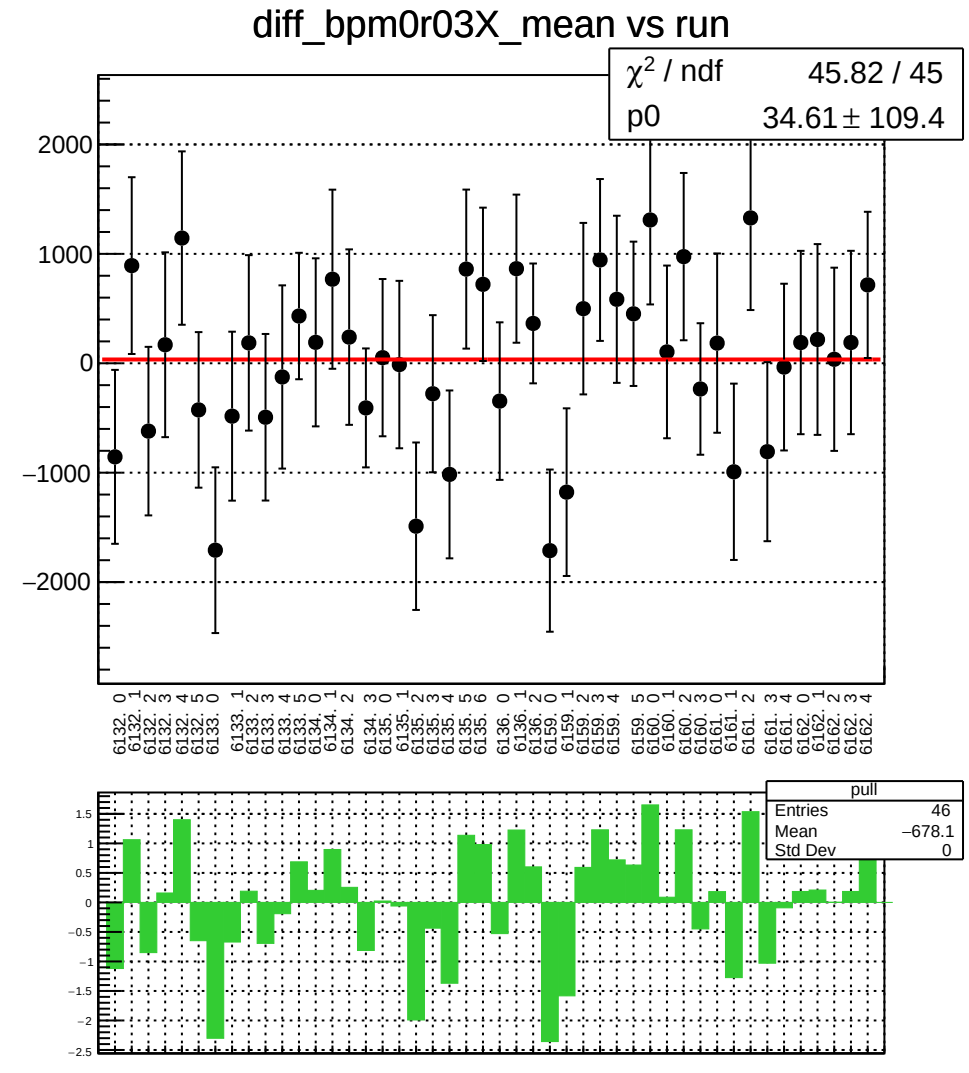

pull1D
Entries 46
Mean −0.002074
Std Dev 1.041

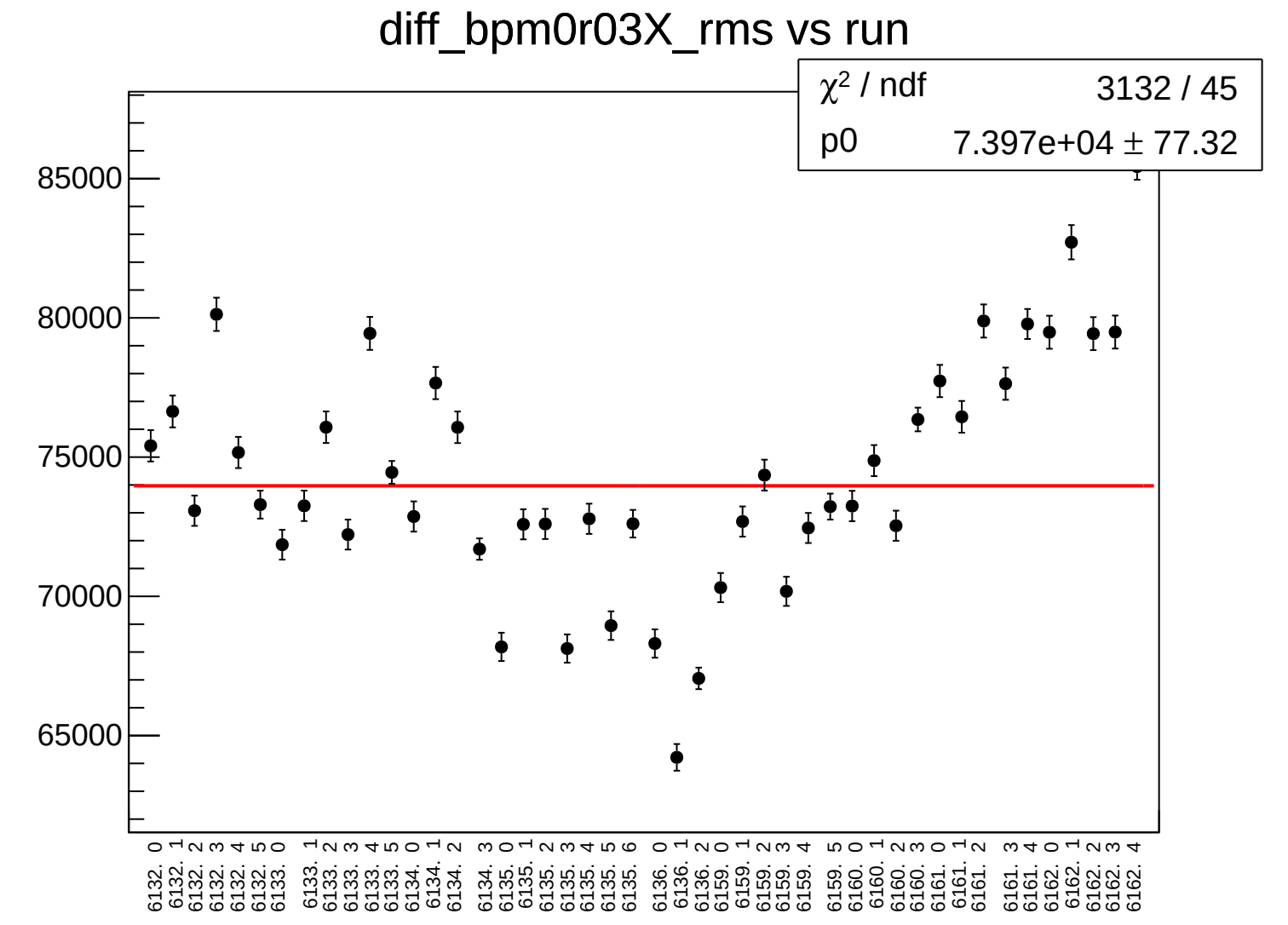

diff_bpm0l10X_rms vs run
χ² / ndf 5208 / 45
p0 1.02e+04 ± 10.68
13000
12000
11000
10000
9000
8000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

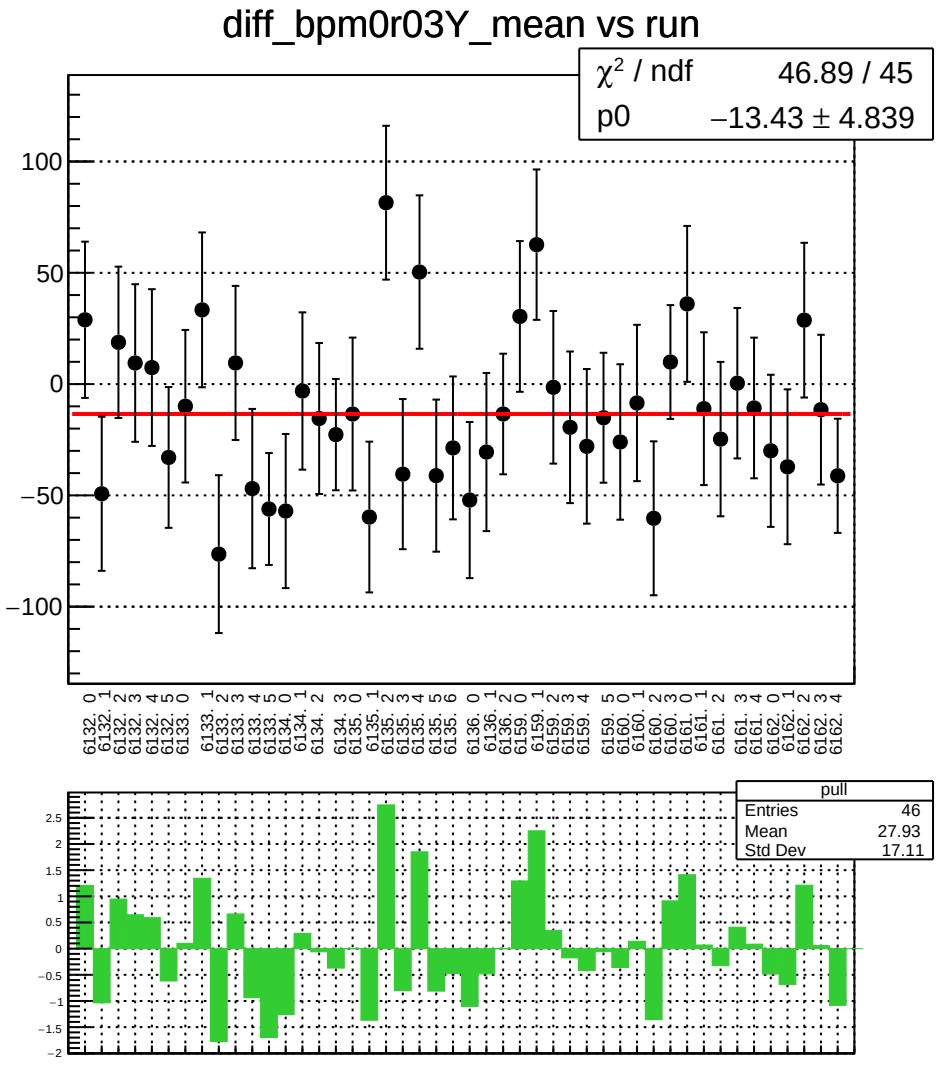

diff_bpm0l10Y_mean vs run
χ² / ndf 60.92 / 45
p0 4.081 ± 1.288
pull
Entries 46
Mean −51.98
Std Dev 0

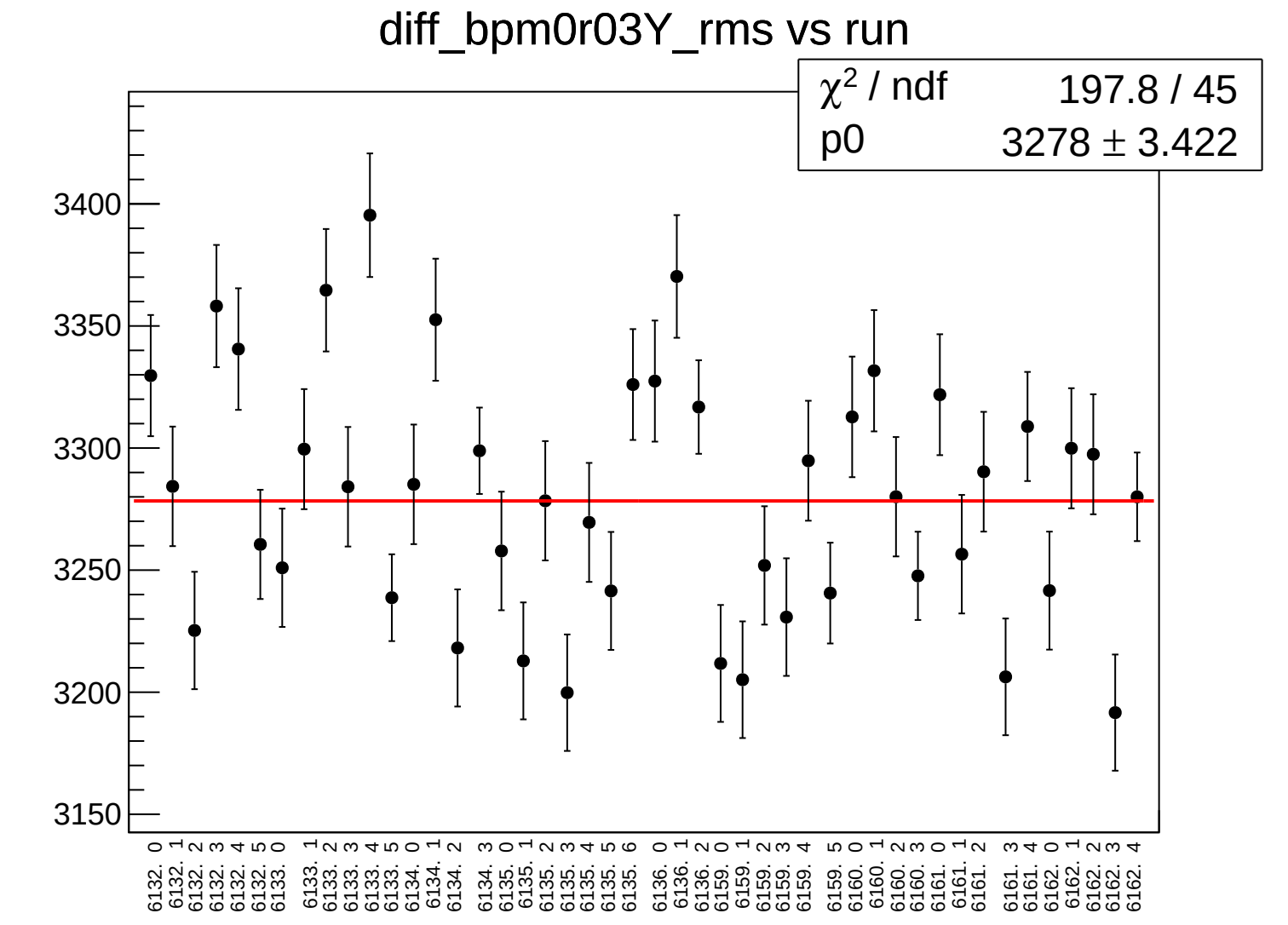

pull1D
Entries 46
Mean 0.02423
Std Dev 1.151

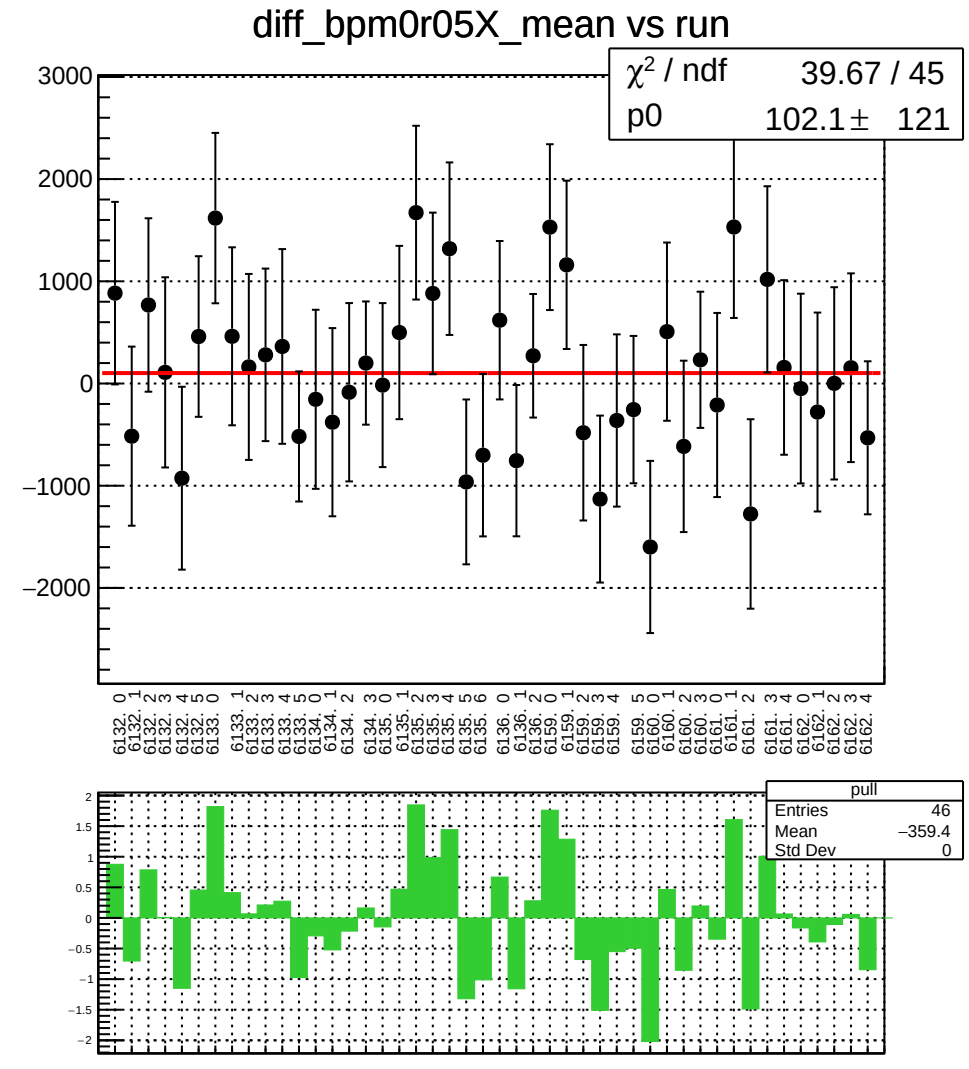

diff_bpm0l10Y_rms vs run
χ² / ndf 479.1 / 45
p0 872.2 ± 0.9105
960
940
920
900
880
860
840
820
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

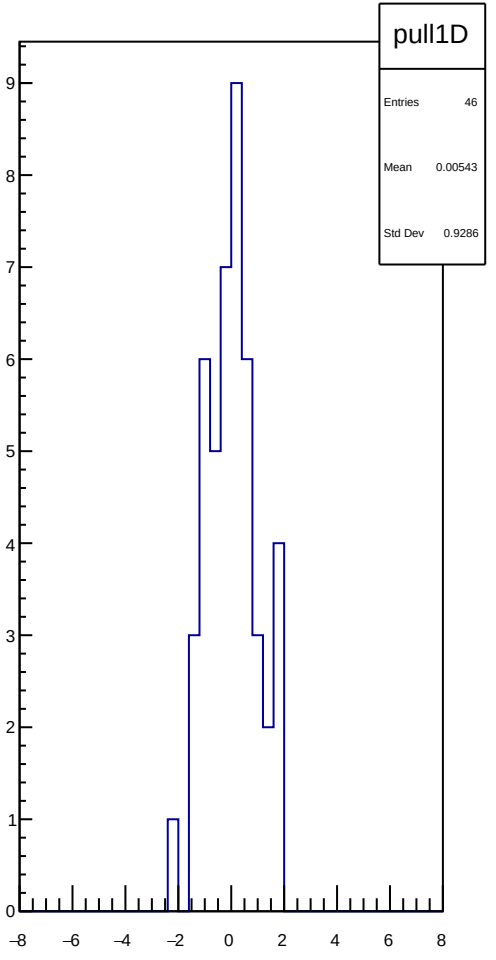

diff_bpm0r03X_mean vs run
χ² / ndf 45.82 / 45
p0 34.61 ± 109.4
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −678.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.003577
Std Dev 0.998
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

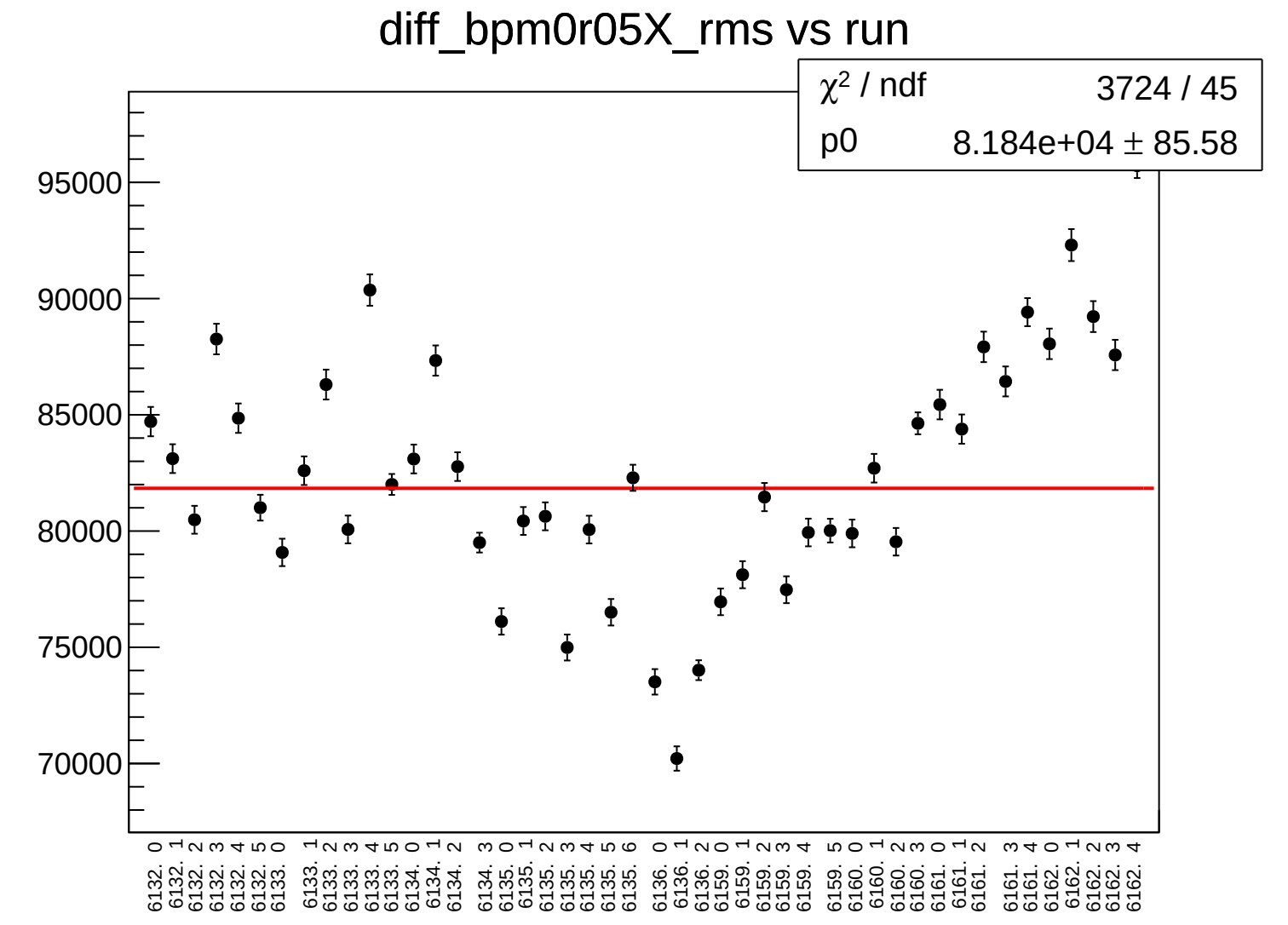

diff_bpm0r03X_rms vs run
χ² / ndf 3132 / 45
p0 7.397e+04 ± 77.32
85000
80000
75000
70000
65000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

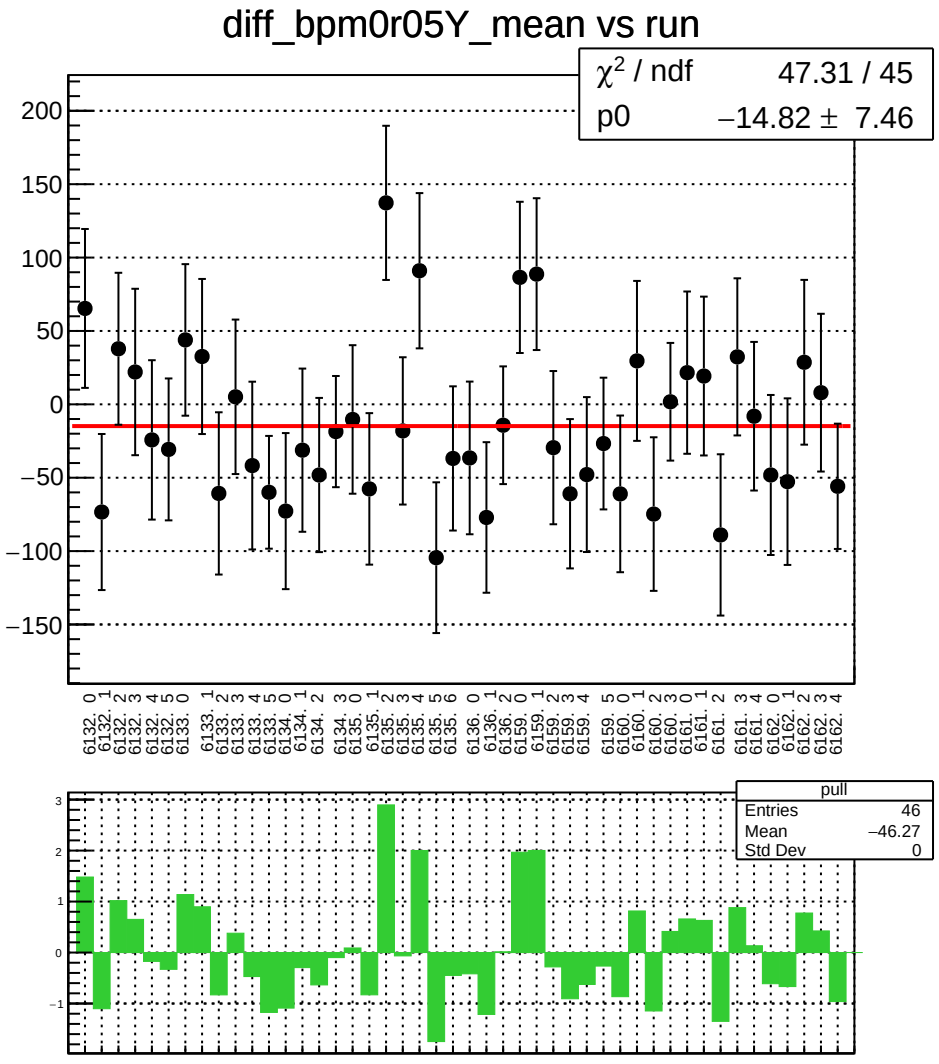

diff_bpm0r03Y_mean vs run
χ² / ndf 46.89 / 45
p0 −13.43 ± 4.839
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 27.93
Std Dev 17.11
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.0184
Std Dev 1.009
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

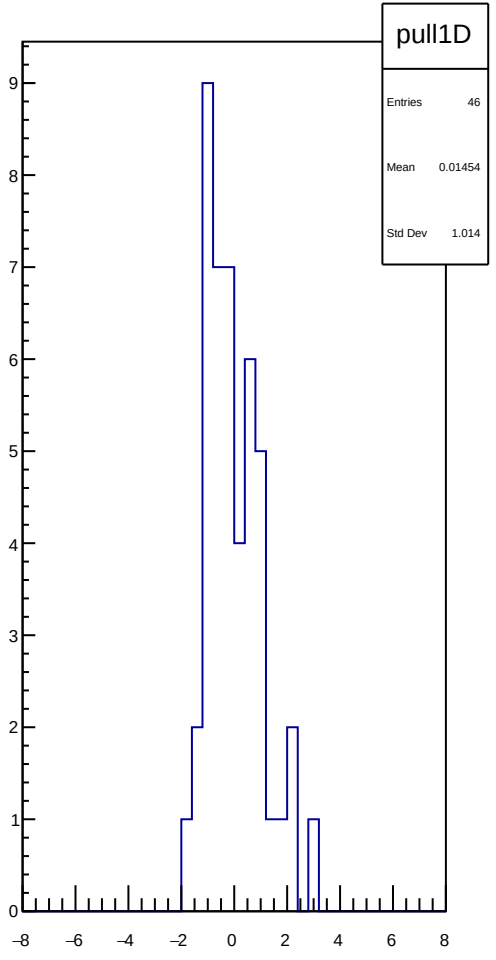

diff_bpm0r03Y_rms vs run
χ² / ndf 197.8 / 45
p0 3278 ± 3.422
3400
3350
3300
3250
3200
3150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

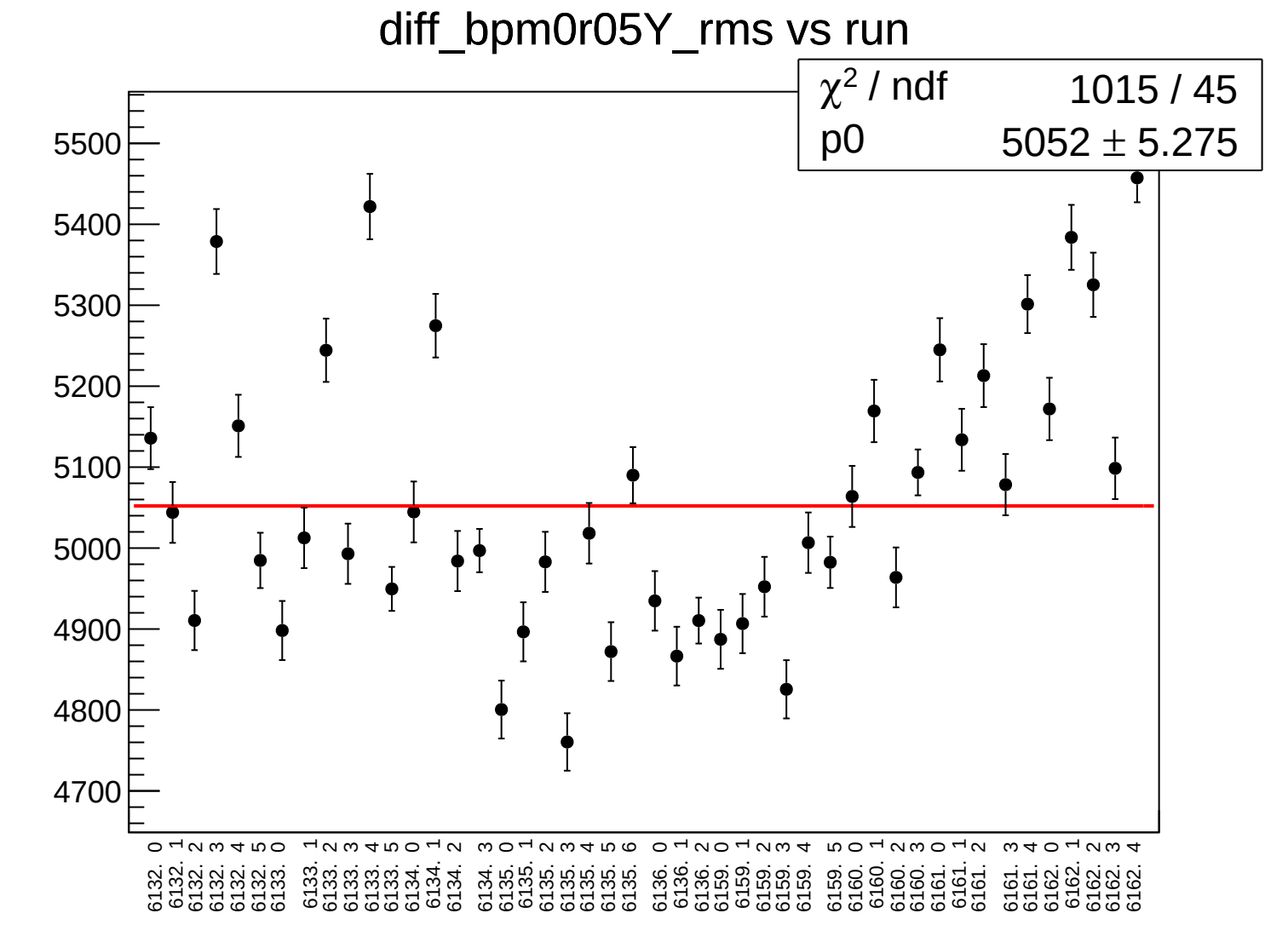

diff_bpm0r05X_mean vs run
χ² / ndf 39.67 / 45
p0 102.1 ± 121
pull
Entries 46
Mean −359.4
Std Dev 0

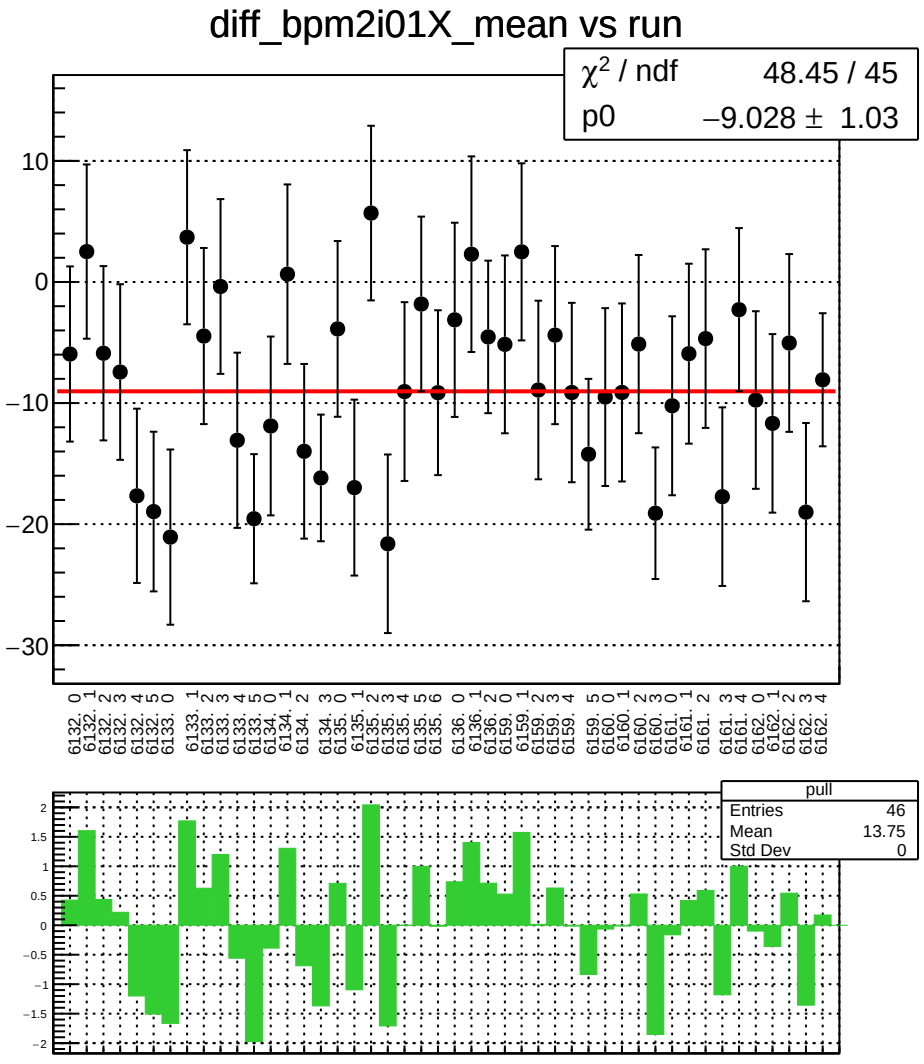

pull1D
Entries 46
Mean 0.00543
Std Dev 0.9286

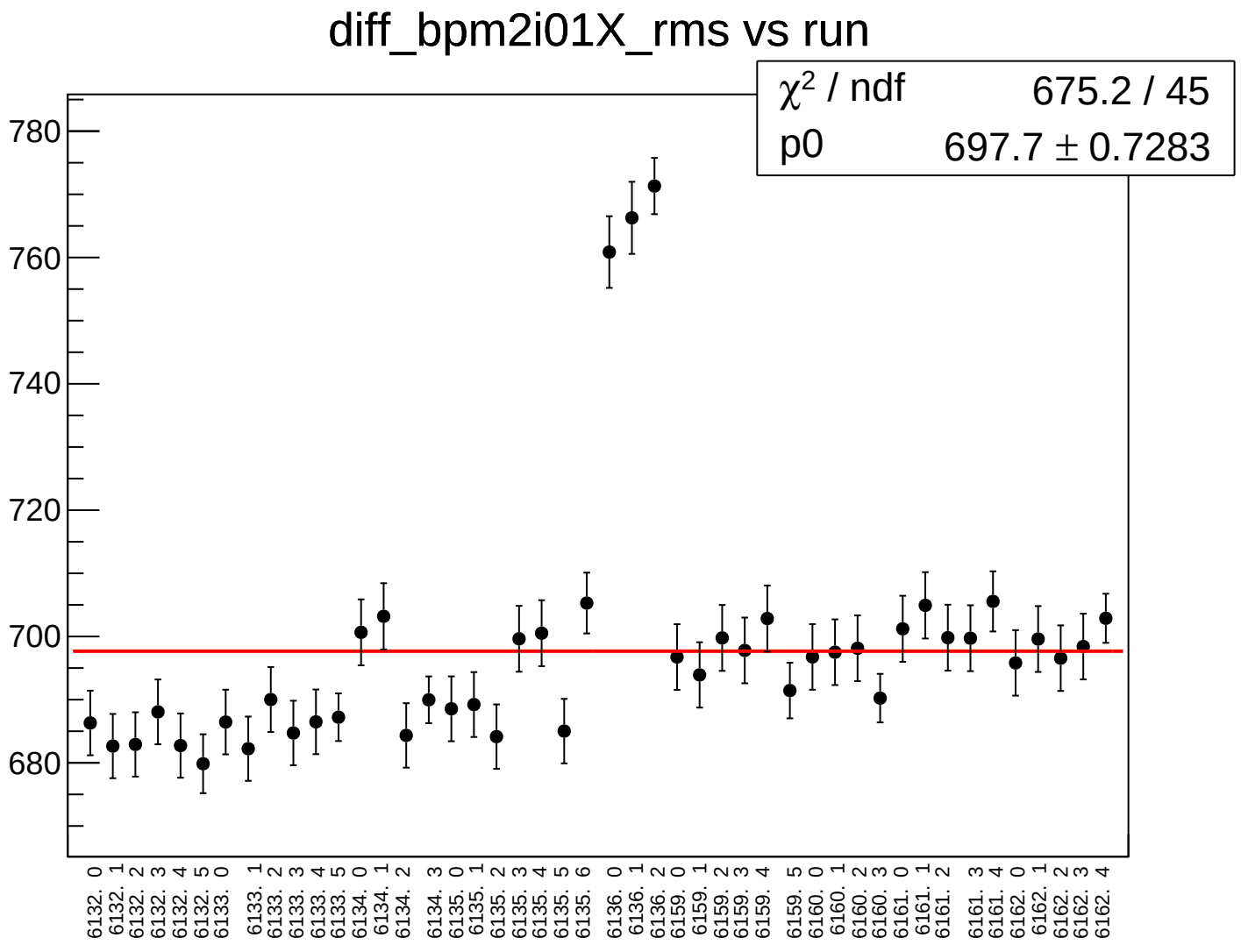

diff_bpm0r05X_rms vs run
χ² / ndf 3724 / 45
p0 8.184e+04 ± 85.58
95000
90000
85000
80000
75000
70000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

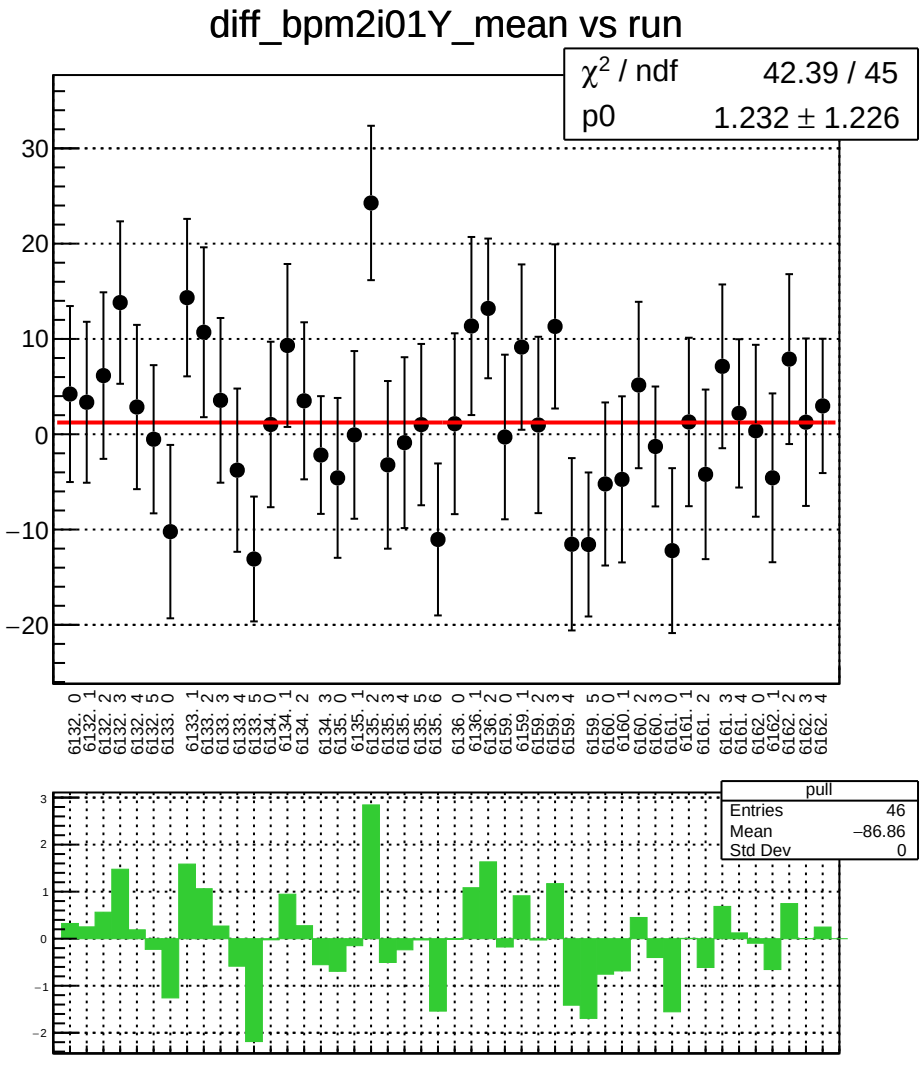

diff_bpm0r05Y_mean vs run
χ² / ndf 47.31 / 45
p0 −14.82 ± 7.46
pull
Entries 46
Mean −46.27
Std Dev 0

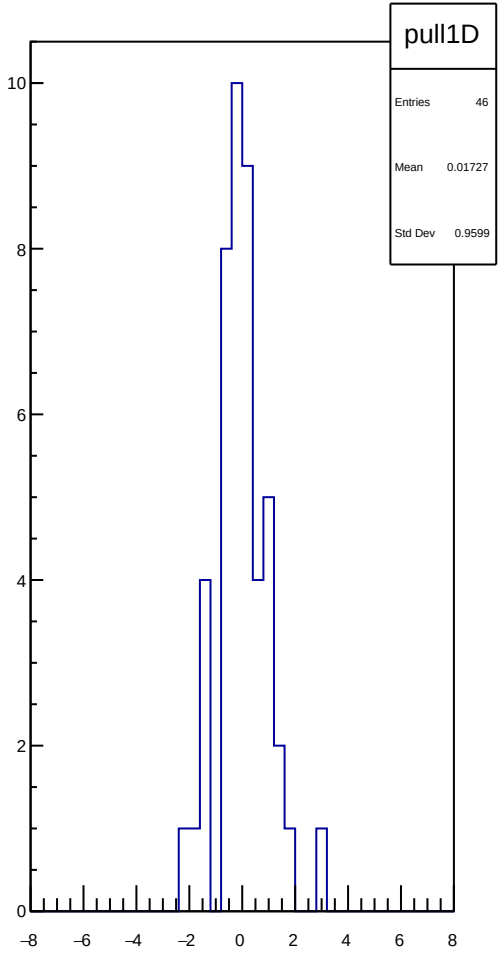

pull1D
Entries 46
Mean 0.01454
Std Dev 1.014

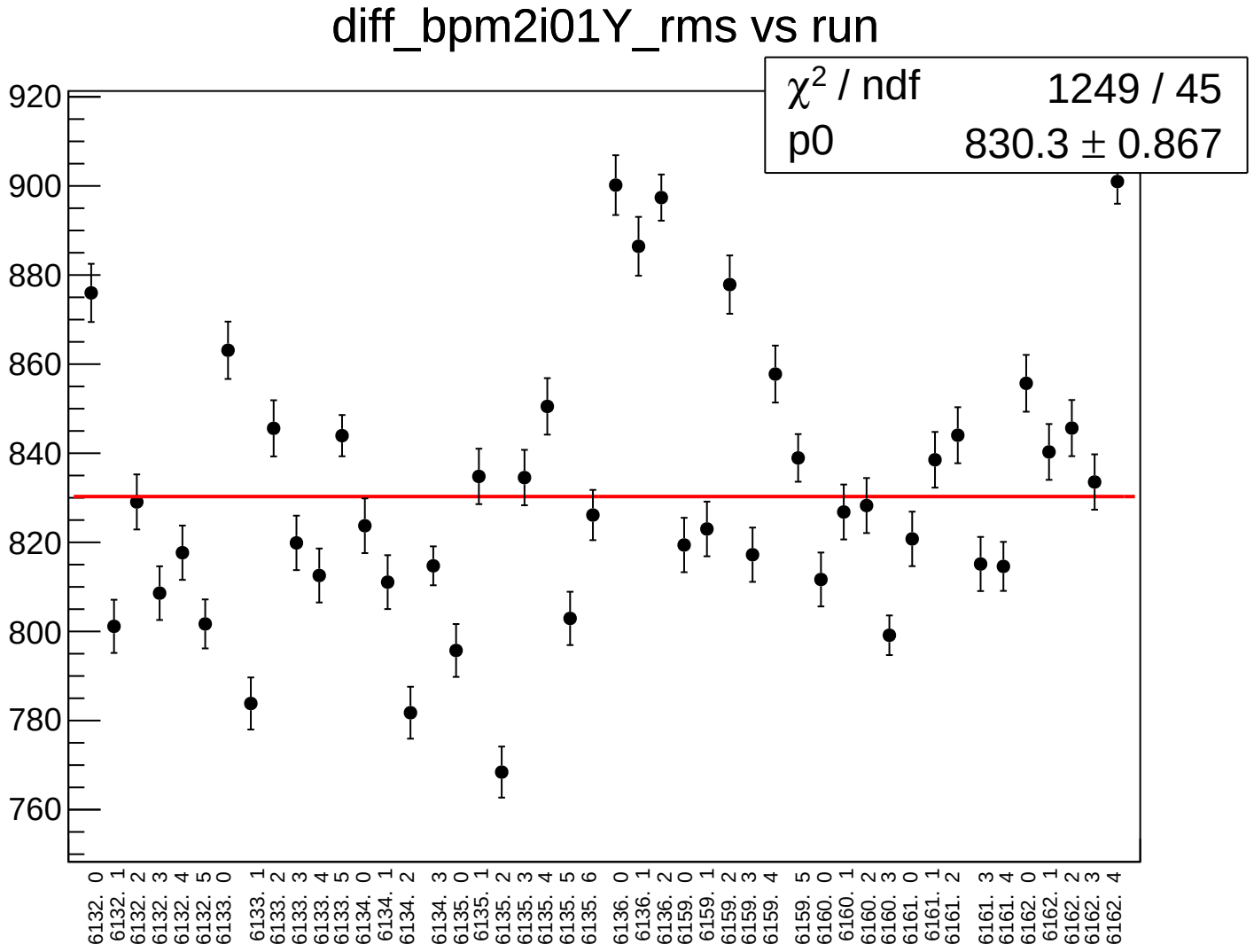

diff_bpm0r05Y_rms vs run
χ² / ndf 1015 / 45
p0 5052 ± 5.275
5500
5400
5300
5200
5100
5000
4900
4800
4700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

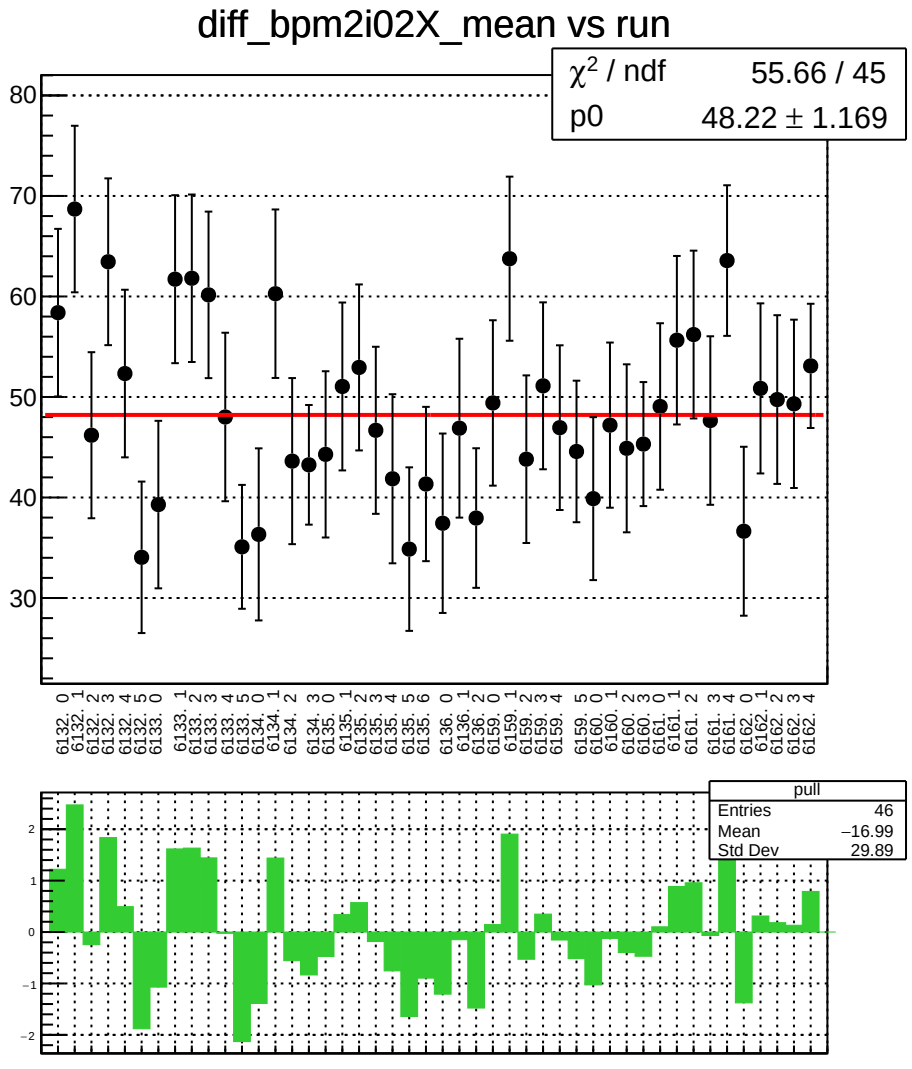

diff_bpm2i01X_mean vs run
χ² / ndf 48.45 / 45
p0 −9.028 ± 1.03
10
0
−10
−20
−30
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 13.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.04546
Std Dev 1.025
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

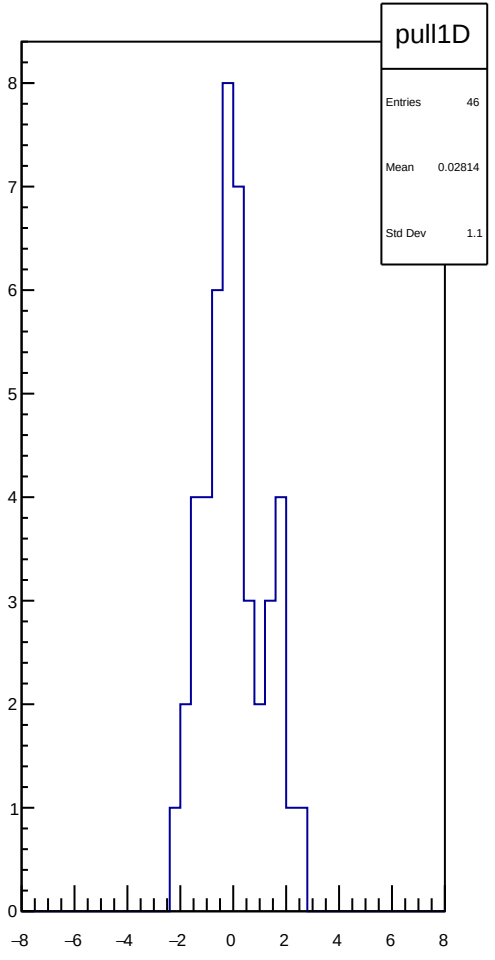

diff_bpm2i01X_rms vs run
χ² / ndf 675.2 / 45
p0 697.7 ± 0.7283
780
760
740
720
700
680
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

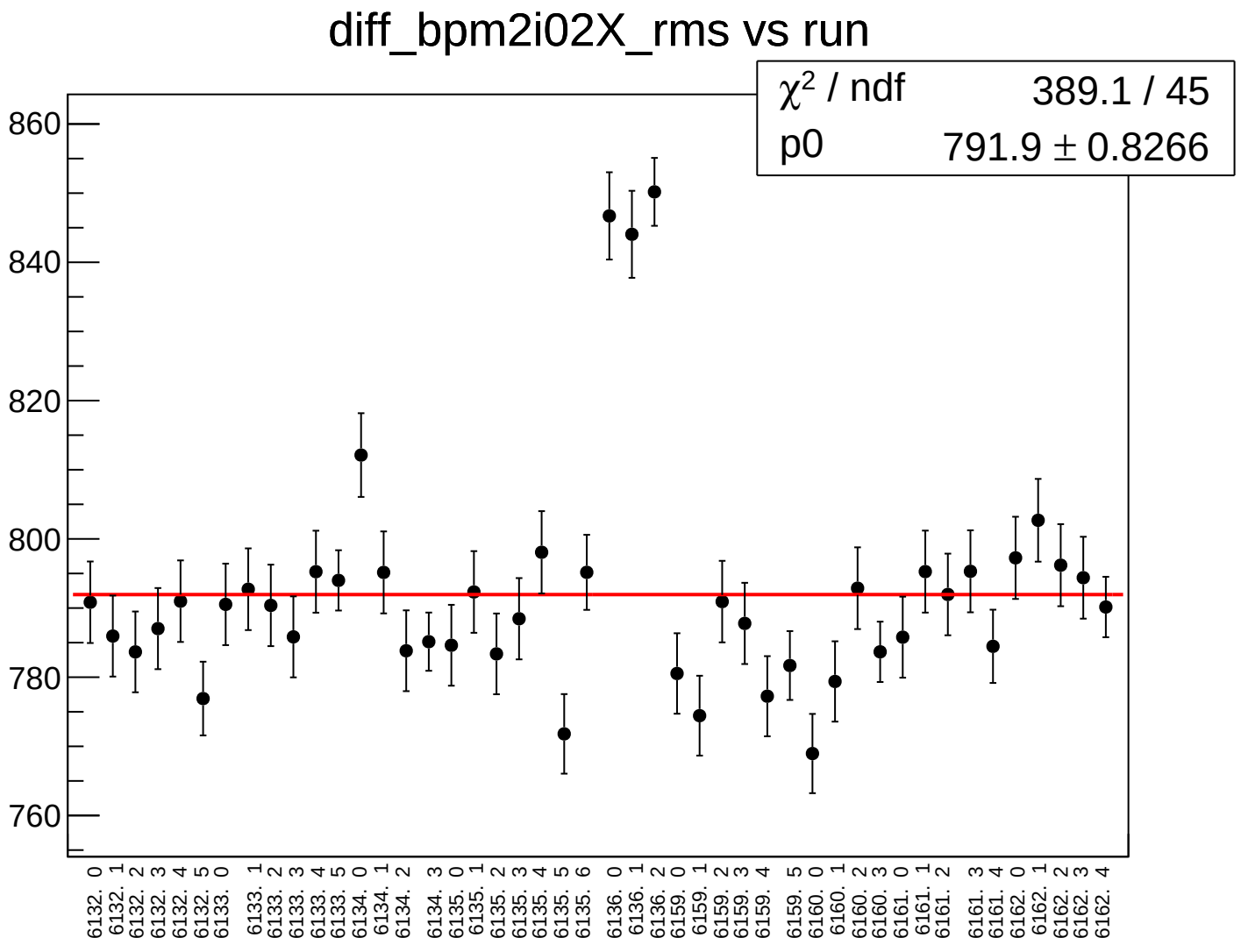

diff_bpm2i01Y_mean vs run
χ^2 / ndf 42.39 / 45
p0 1.232 ± 1.226
pull
Entries 46
Mean −86.86
Std Dev 0


pull1D
Entries 46
Mean 0.01727
Std Dev 0.9599


diff_bpm2i01Y_rms vs run
χ² / ndf 1249 / 45
p0 830.3 ± 0.867
920
900
880
860
840
820
800
780
760
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


diff_bpm2i02X_mean vs run
χ² / ndf 55.66 / 45
p0 48.22 ± 1.169
pull
Entries 46
Mean −16.99
Std Dev 29.89


pull1D
Entries 46
Mean 0.02814
Std Dev 1.1


diff_bpm2i02X_rms vs run
χ² / ndf 389.1 / 45
p0 791.9 ± 0.8266
860
840
820
800
780
760
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
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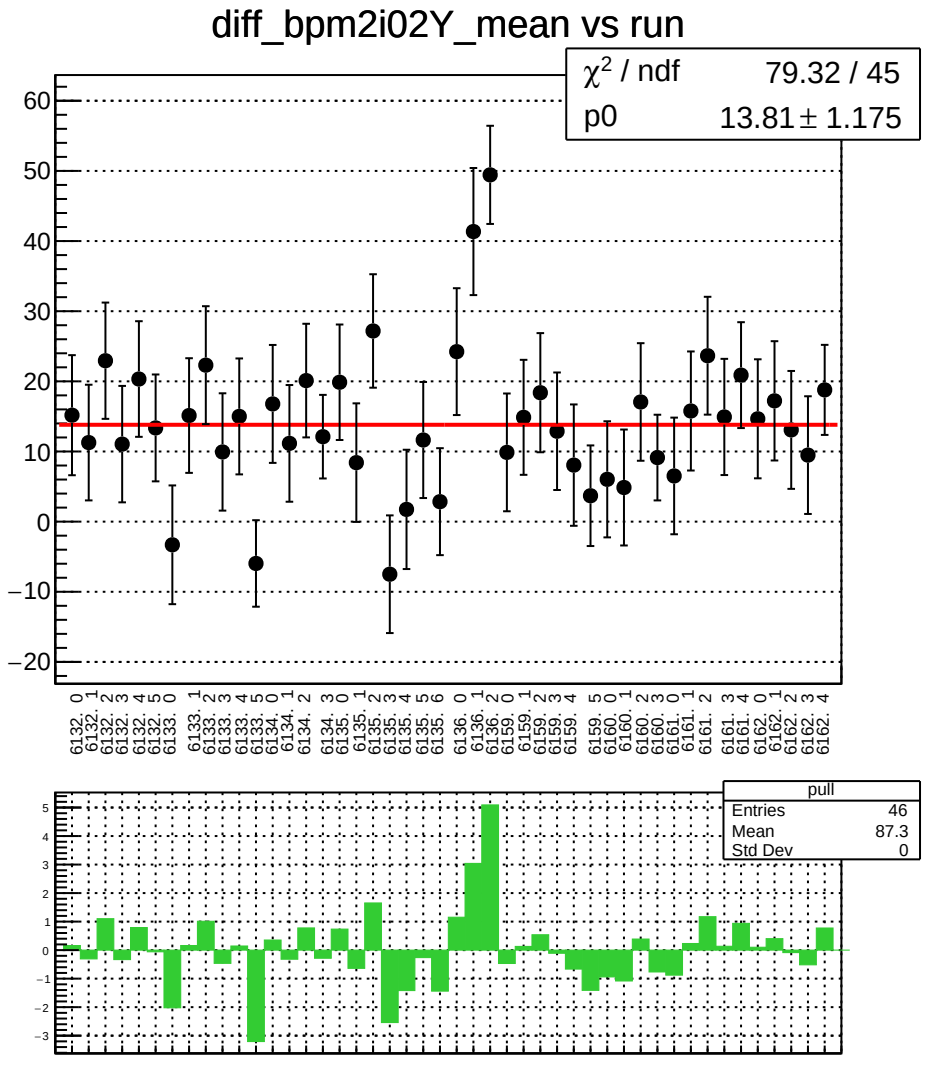
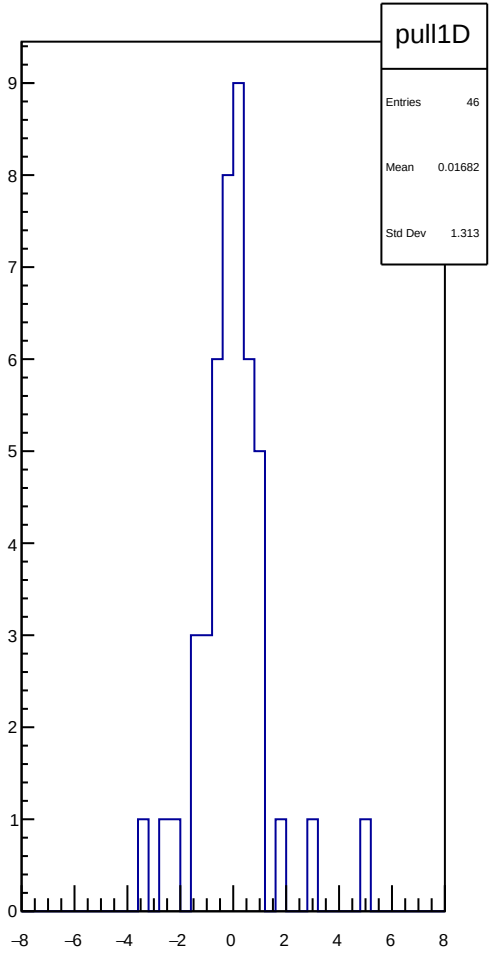
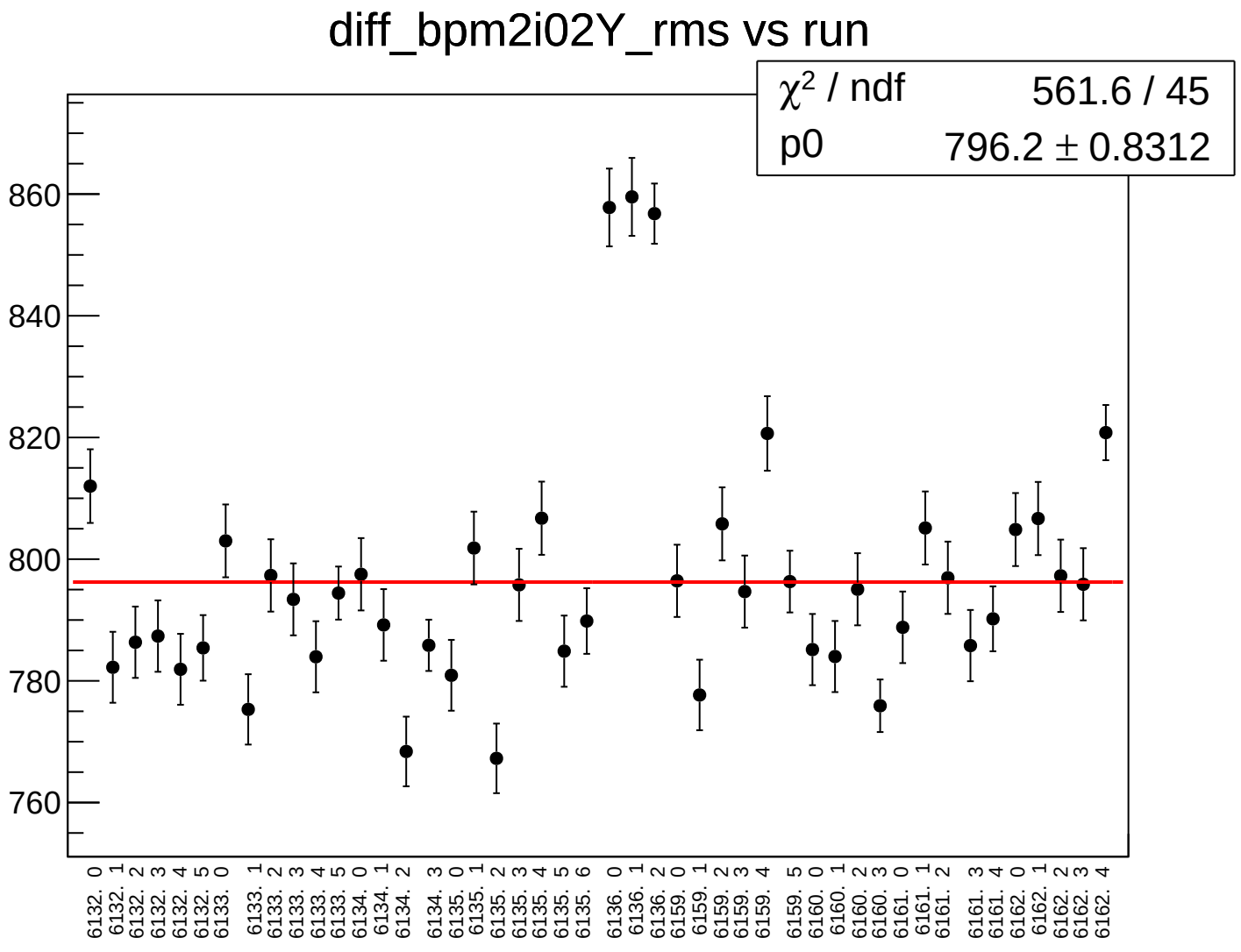
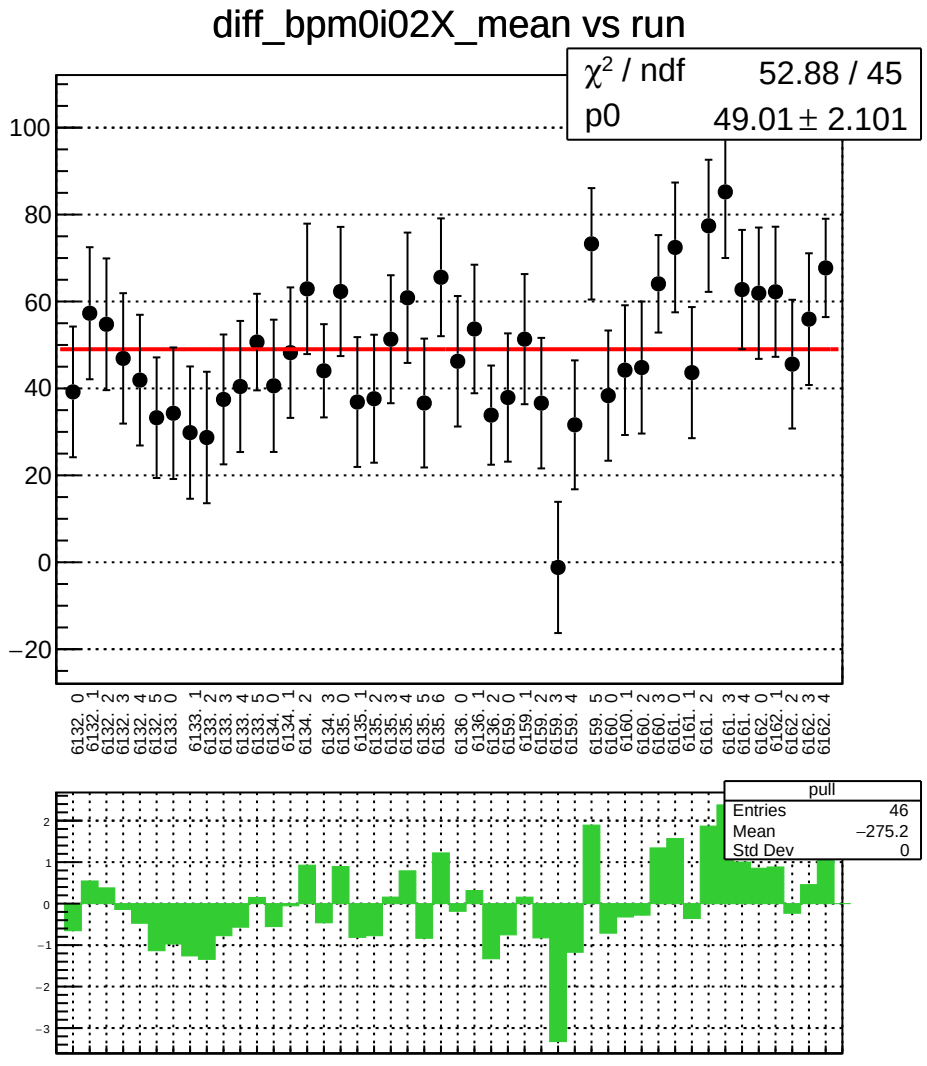
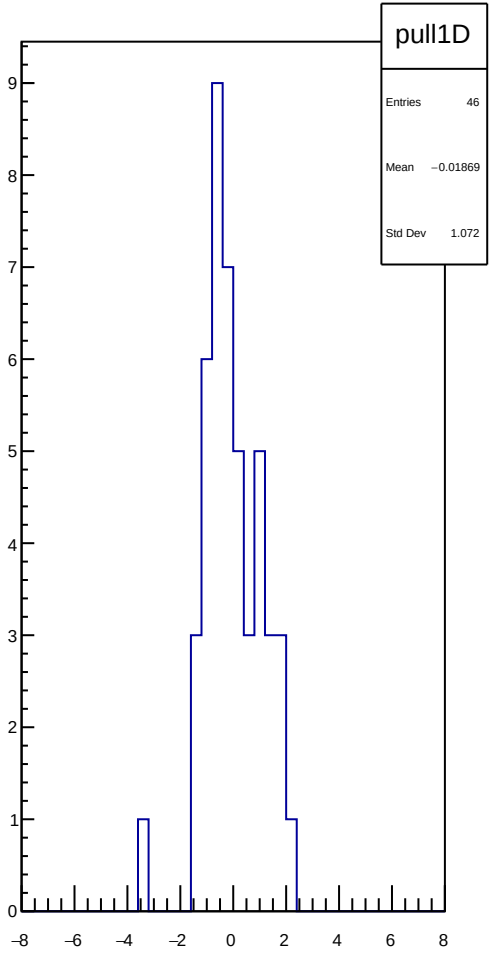
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

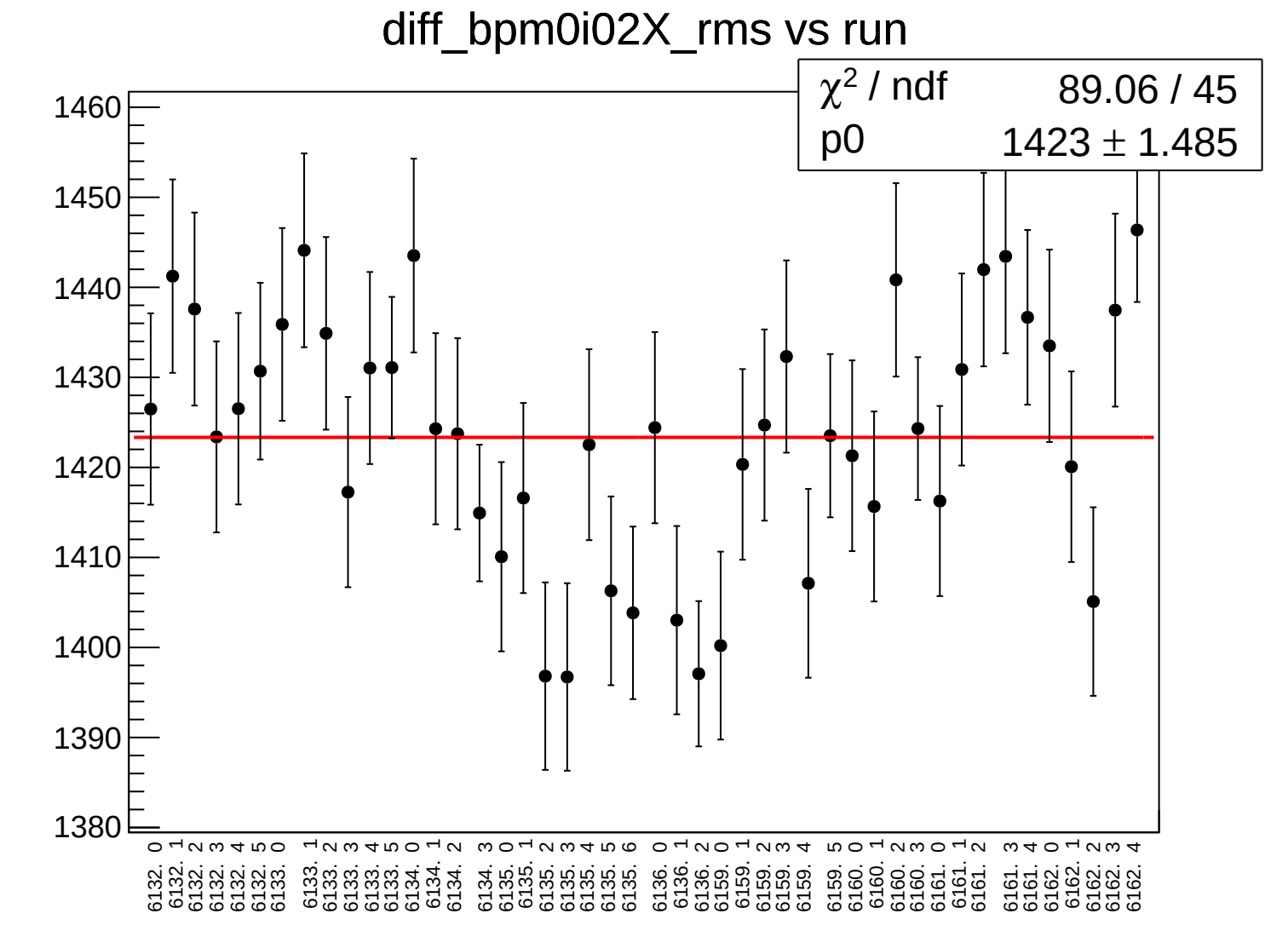

diff_bpm2i02Y_mean vs run
χ² / ndf 79.32 / 45
p0 13.81 ± 1.175
pull
Entries 46
Mean 87.3
Std Dev 0

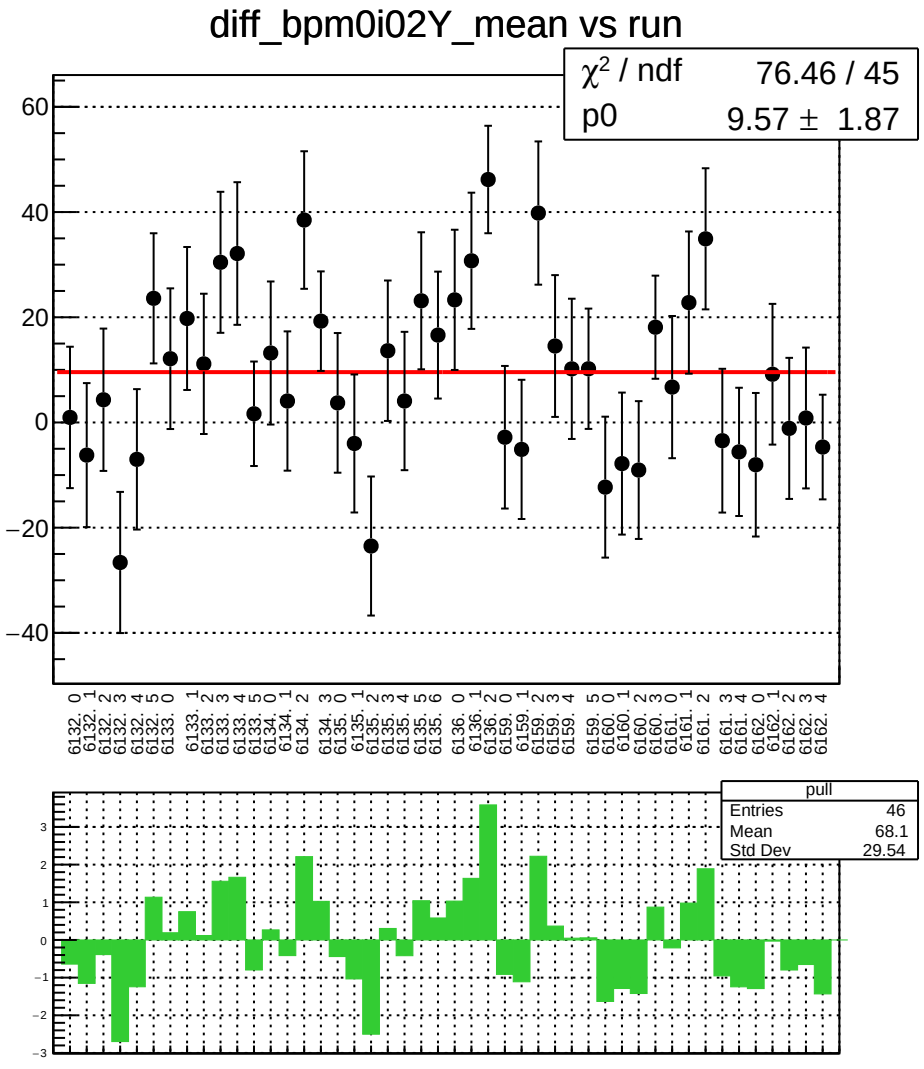

pull1D
Entries 46
Mean 0.01682
Std Dev 1.313

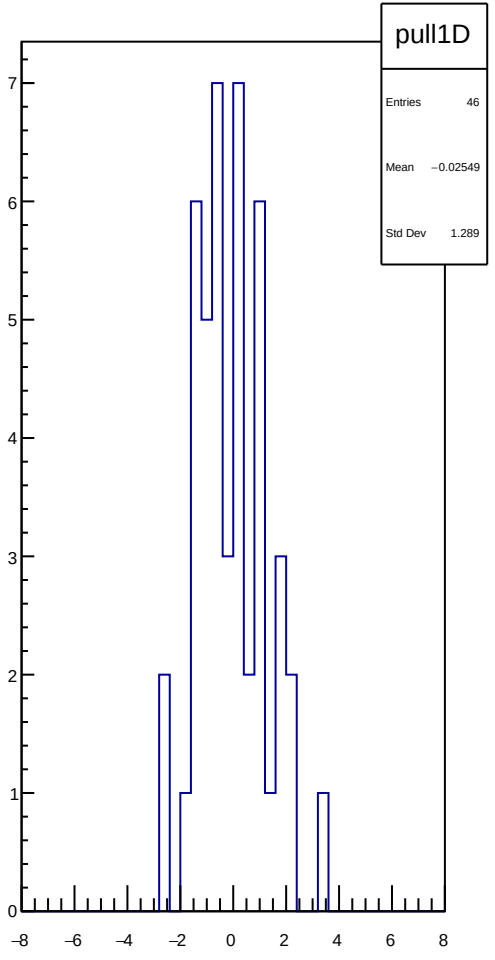

diff_bpm2i02Y_rms vs run
χ² / ndf 561.6 / 45
p0 796.2 ± 0.8312
860
840
820
800
780
760
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

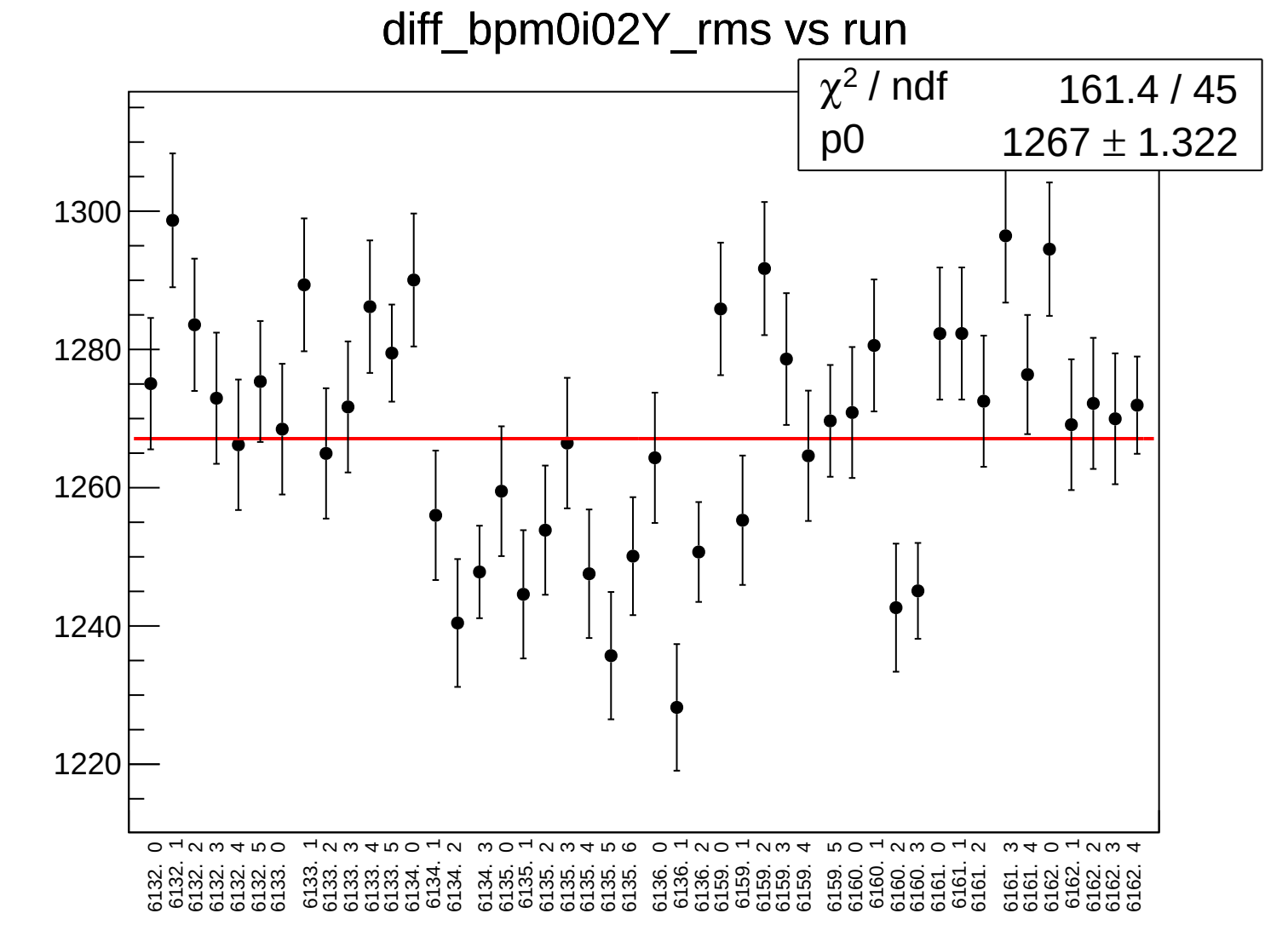

diff_bpm0i02X_mean vs run
χ² / ndf 52.88 / 45
p0 49.01 ± 2.101
100
80
60
40
20
0
−20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −275.2
Std Dev 0
2
1
0
−1
−2
−3

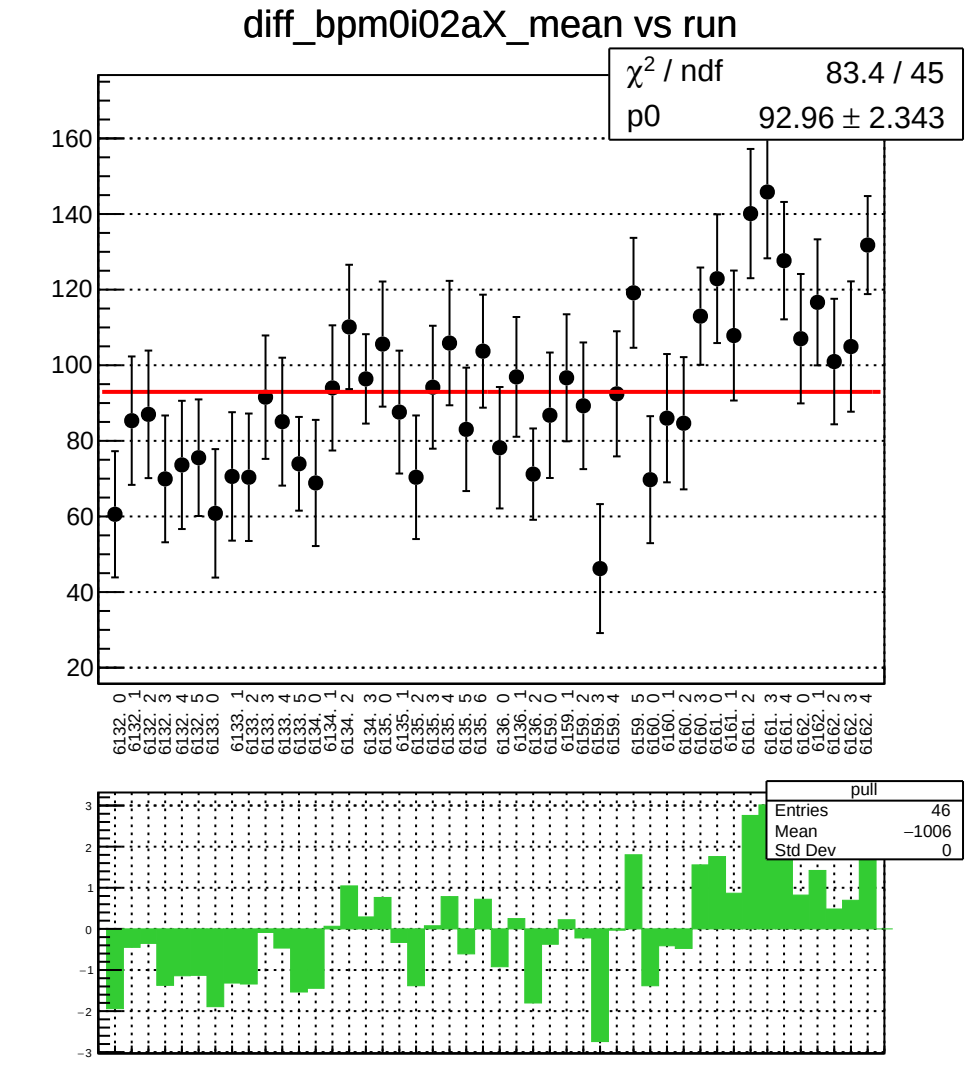

pull1D
Entries 46
Mean −0.01869
Std Dev 1.072
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

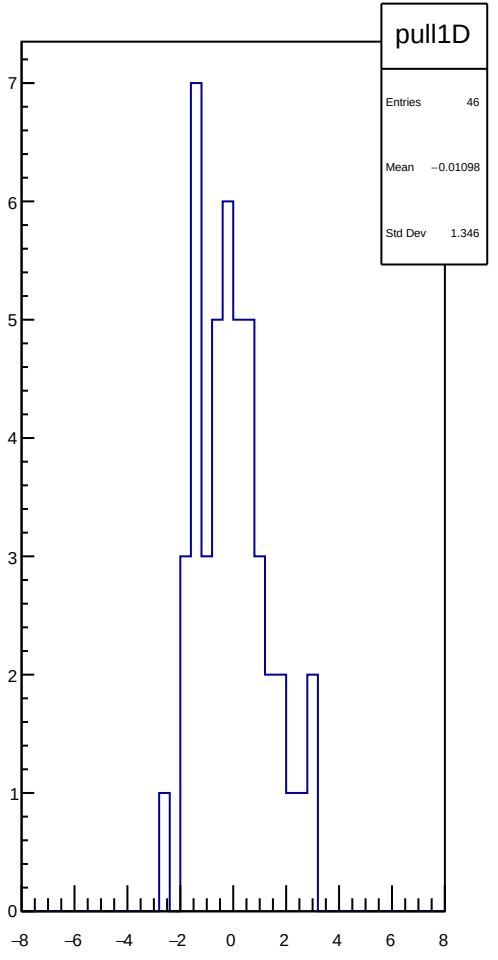

diff_bpm0i02X_rms vs run
χ² / ndf 89.06 / 45
p0 1423 ± 1.485
1460
1450
1440
1430
1420
1410
1400
1390
1380
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

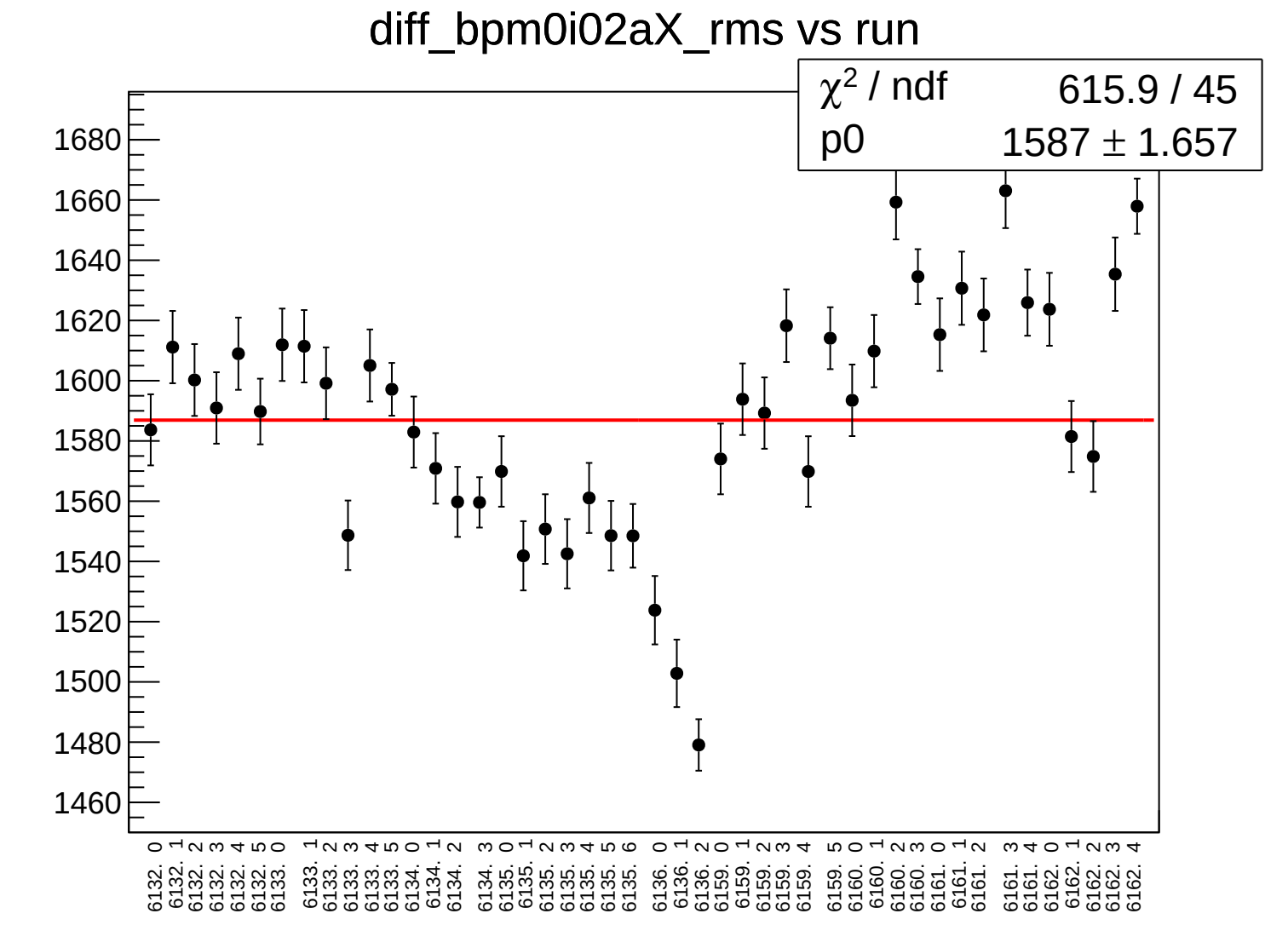

diff_bpm0i02Y_mean vs run
χ² / ndf 76.46 / 45
p0 9.57 ± 1.87
pull
Entries 46
Mean 68.1
Std Dev 29.54

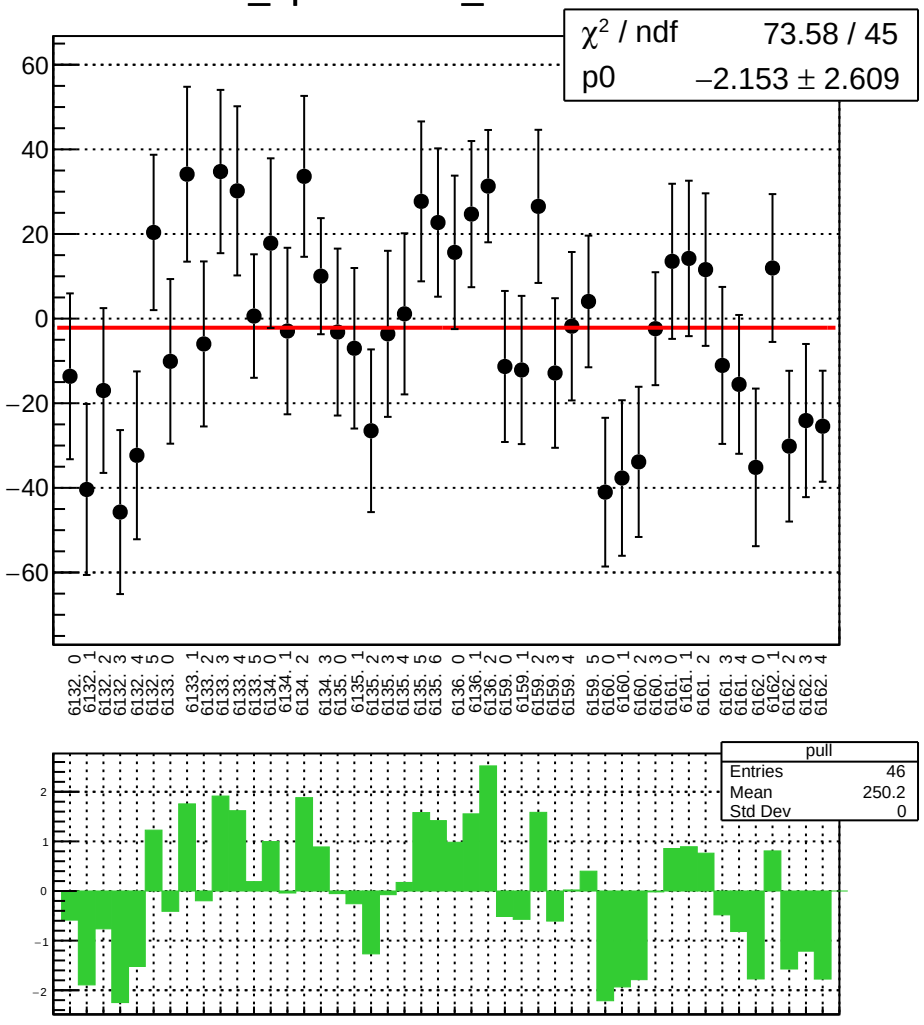

pull1D
Entries 46
Mean −0.02549
Std Dev 1.289

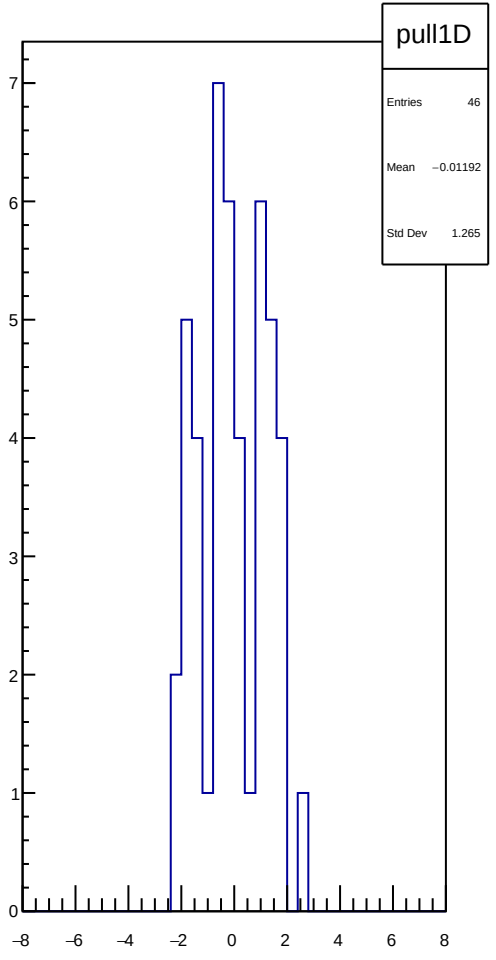

diff_bpm0i02Y_rms vs run
χ² / ndf 161.4 / 45
p0 1267 ± 1.322
1300
1280
1260
1240
1220
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

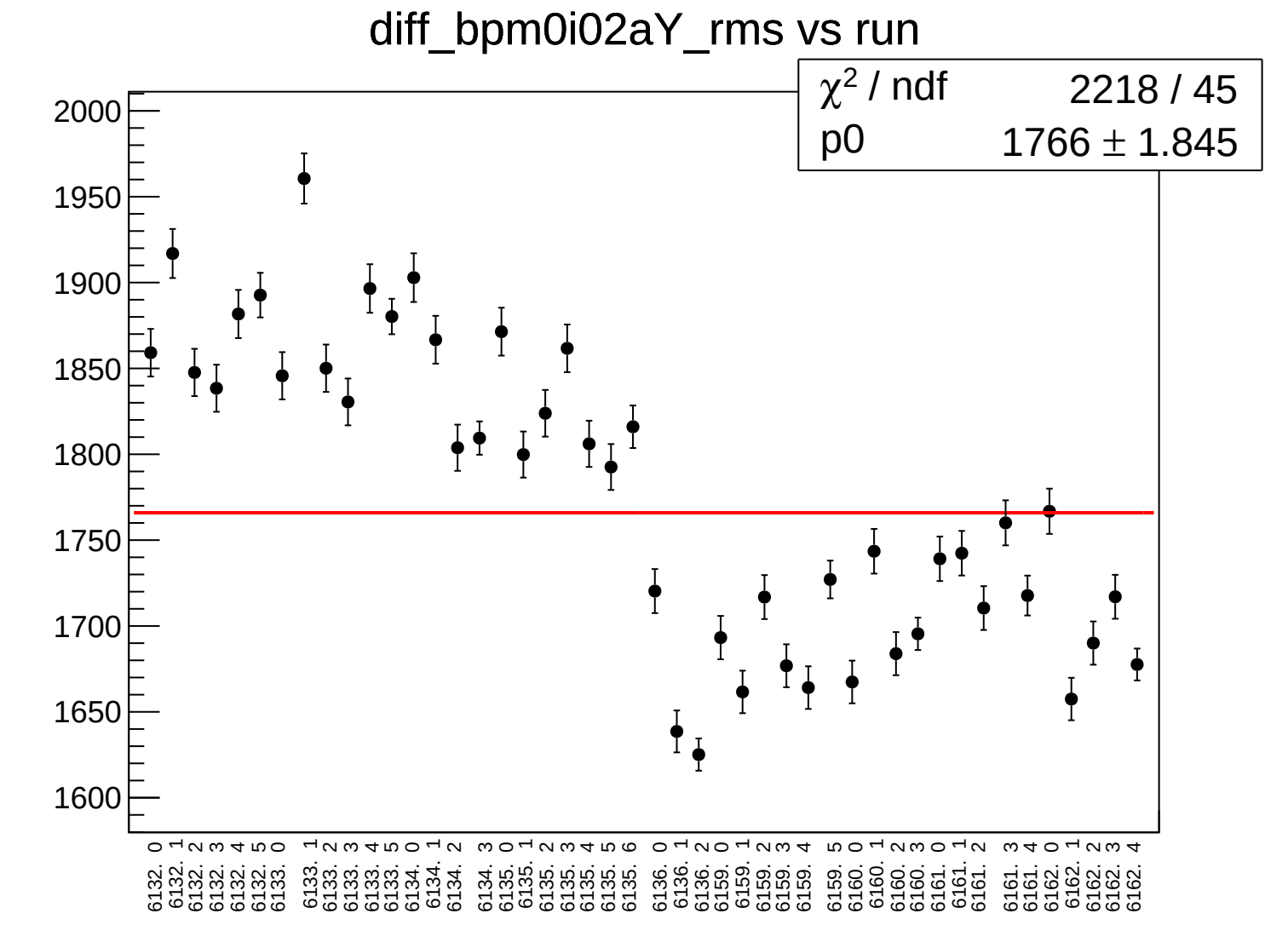

diff_bpm0i02aX_mean vs run
χ² / ndf 83.4 / 45
p0 92.96 ± 2.343
pull
Entries 46
Mean −1006
Std Dev 0

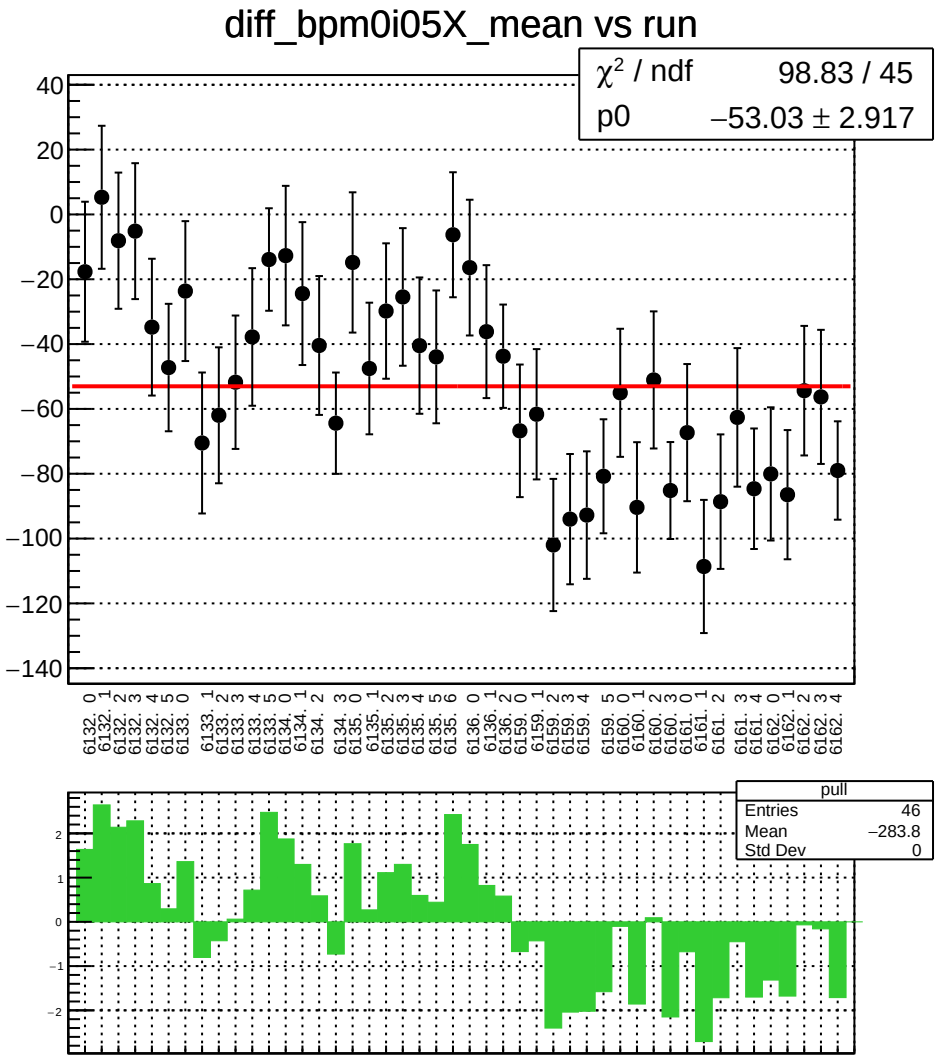

pull1D
Entries 46
Mean −0.01098
Std Dev 1.346

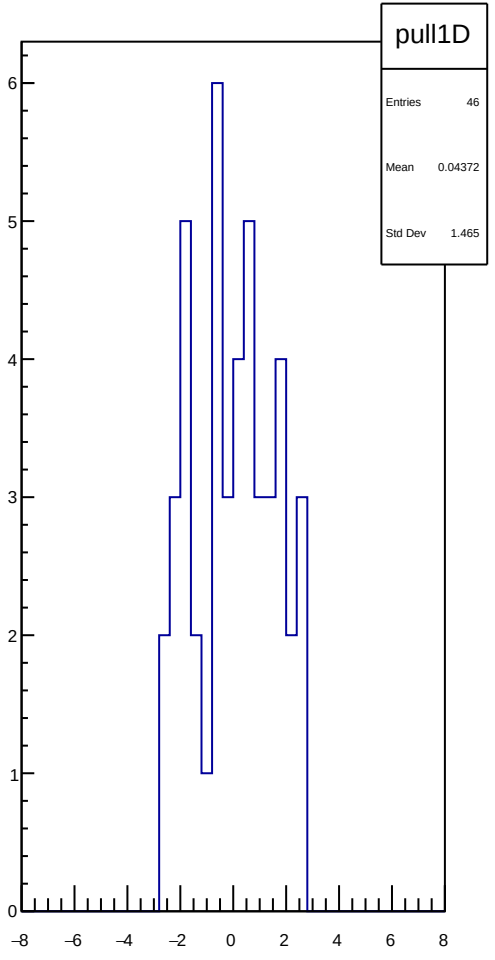

diff_bpm0i02aX_rms vs run
χ² / ndf 615.9 / 45
p0 1587 ± 1.657
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480
1460
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

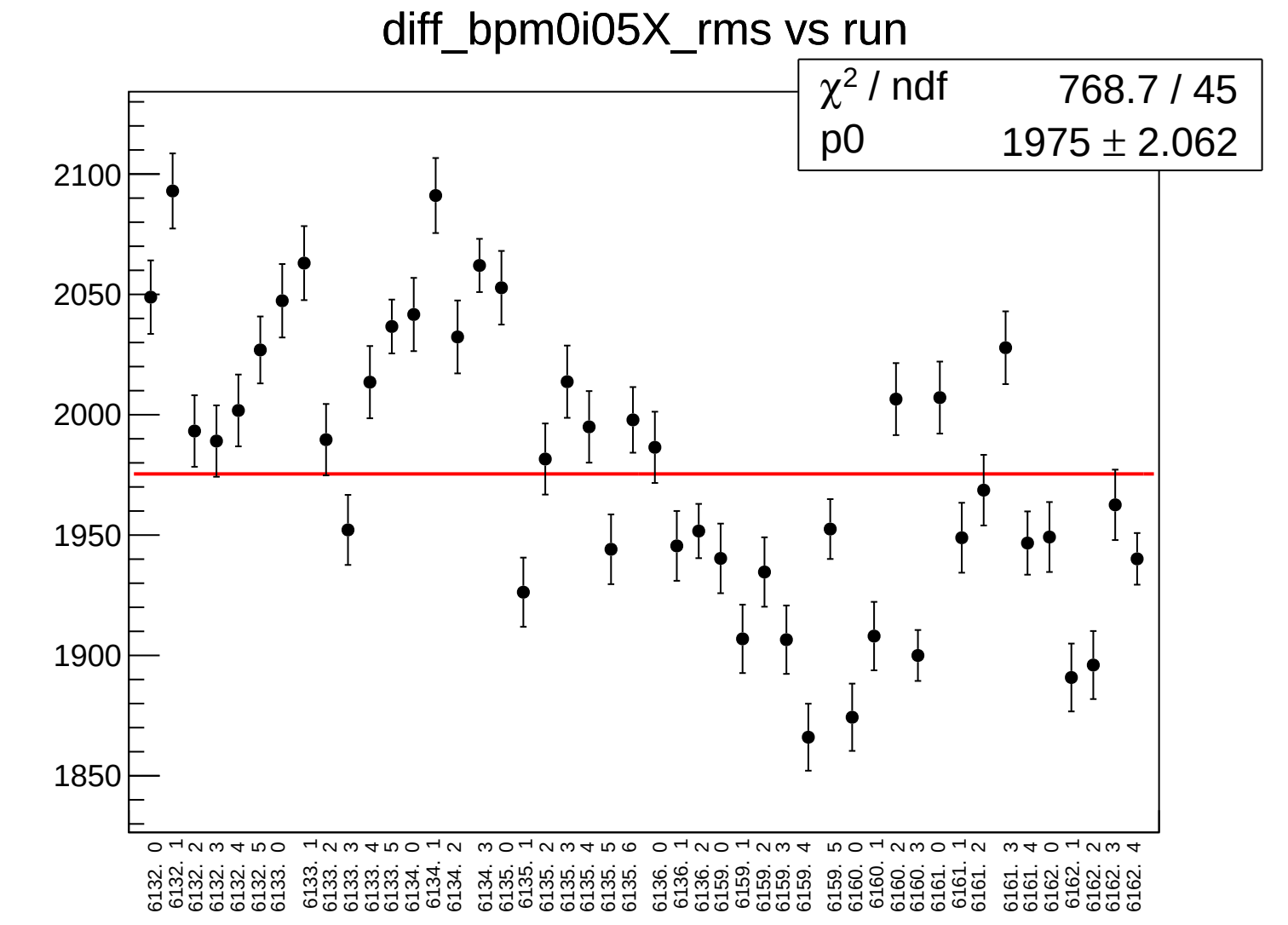

diff_bpm0i02aY_mean vs run
χ² / ndf 73.58 / 45
p0 −2.153 ± 2.609
pull
Entries 46
Mean 250.2
Std Dev 0

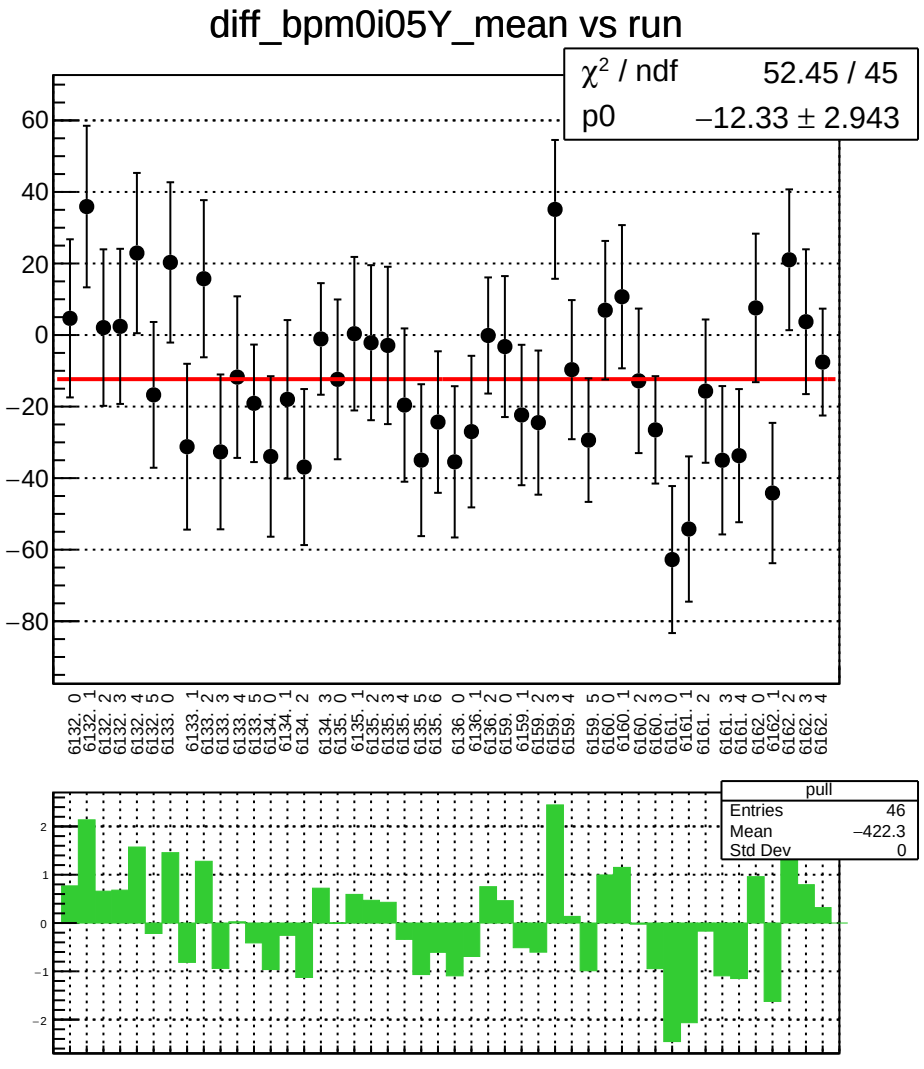

pull1D
Entries 46
Mean −0.01192
Std Dev 1.265

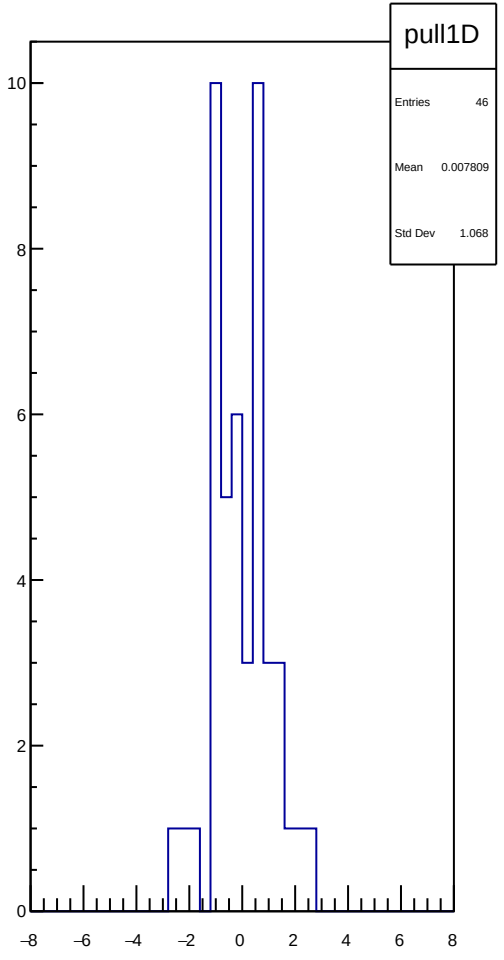

diff_bpm0i02aY_rms vs run
χ² / ndf 2218 / 45
p0 1766 ± 1.845
2000
1950
1900
1850
1800
1750
1700
1650
1600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

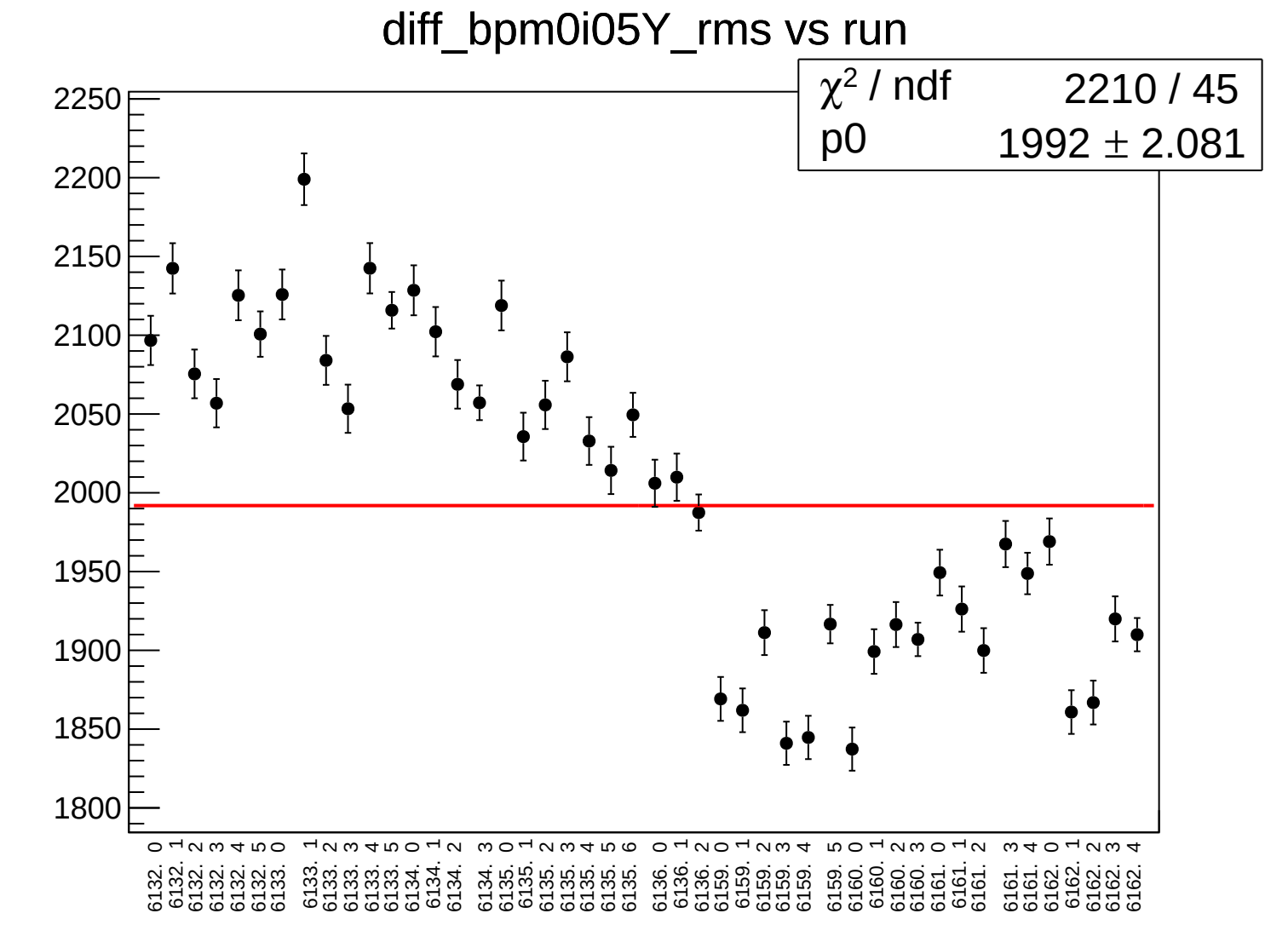

diff_bpm0i05X_mean vs run
χ² / ndf 98.83 / 45
p0 −53.03 ± 2.917
pull
Entries 46
Mean −283.8
Std Dev 0

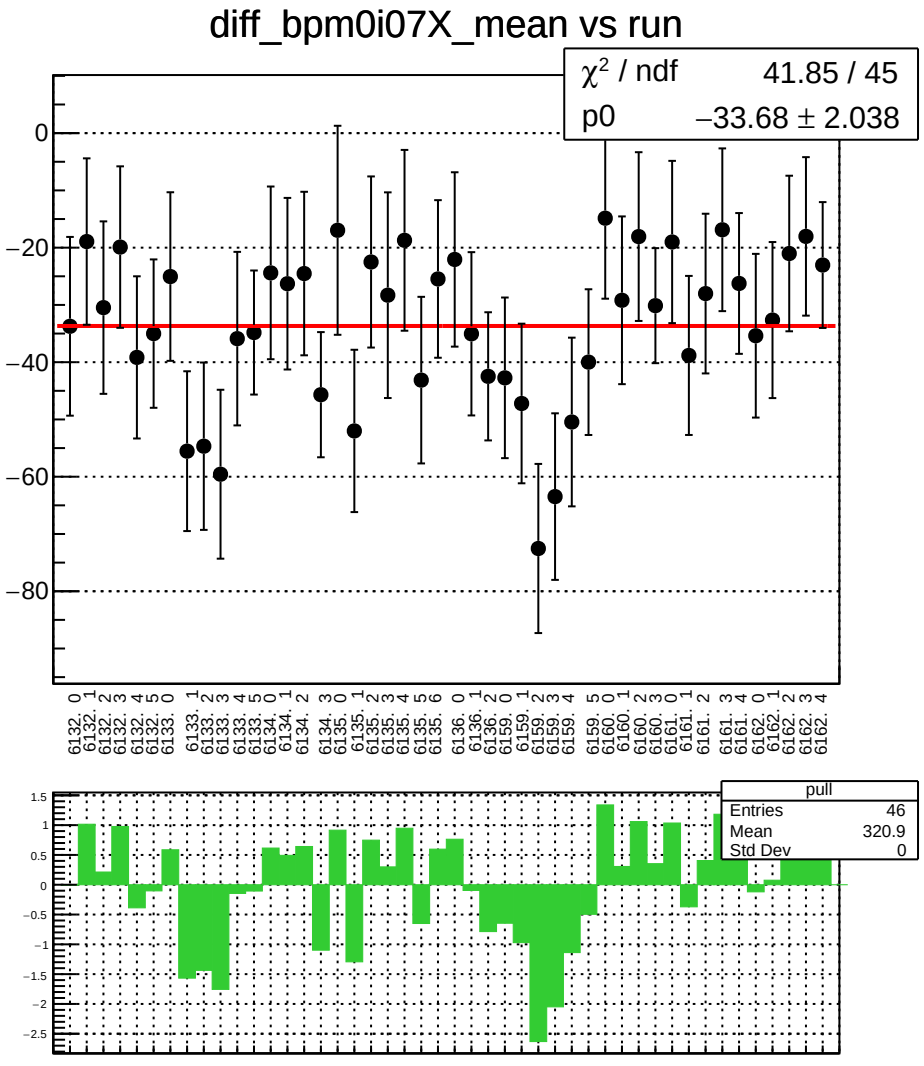

pull1D
Entries 46
Mean 0.04372
Std Dev 1.465

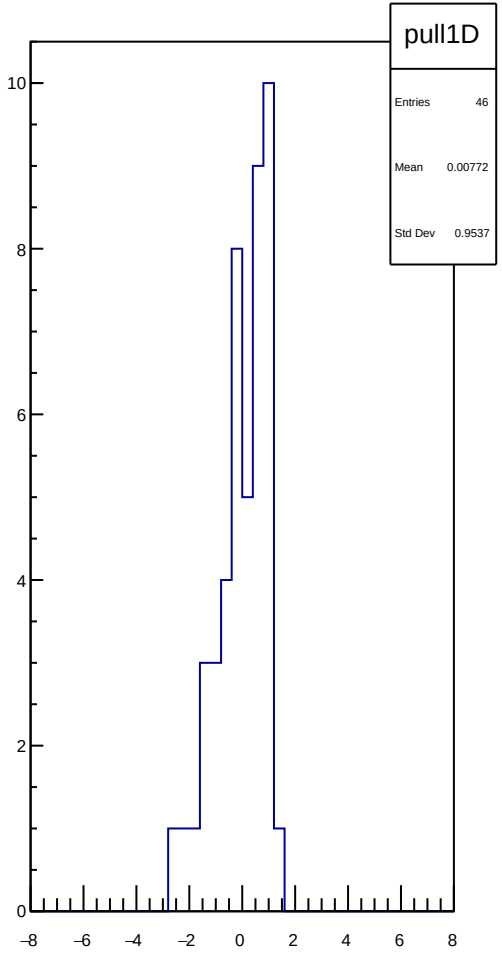

diff_bpm0i05X_rms vs run
χ² / ndf 768.7 / 45
p0 1975 ± 2.062
2100
2050
2000
1950
1900
1850
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

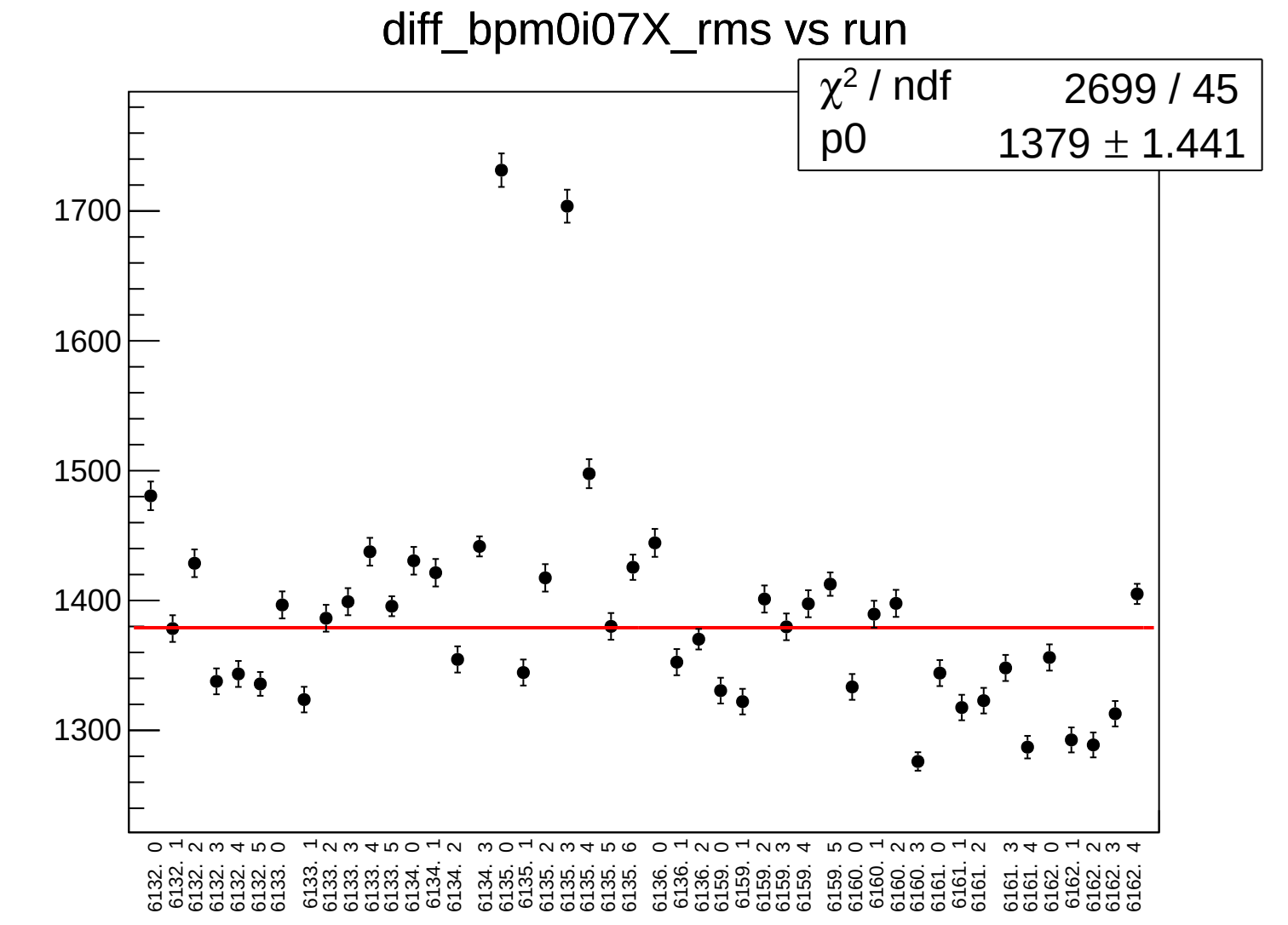

diff_bpm0i05Y_mean vs run
χ² / ndf 52.45 / 45
p0 −12.33 ± 2.943
pull
Entries 46
Mean −422.3
Std Dev 0

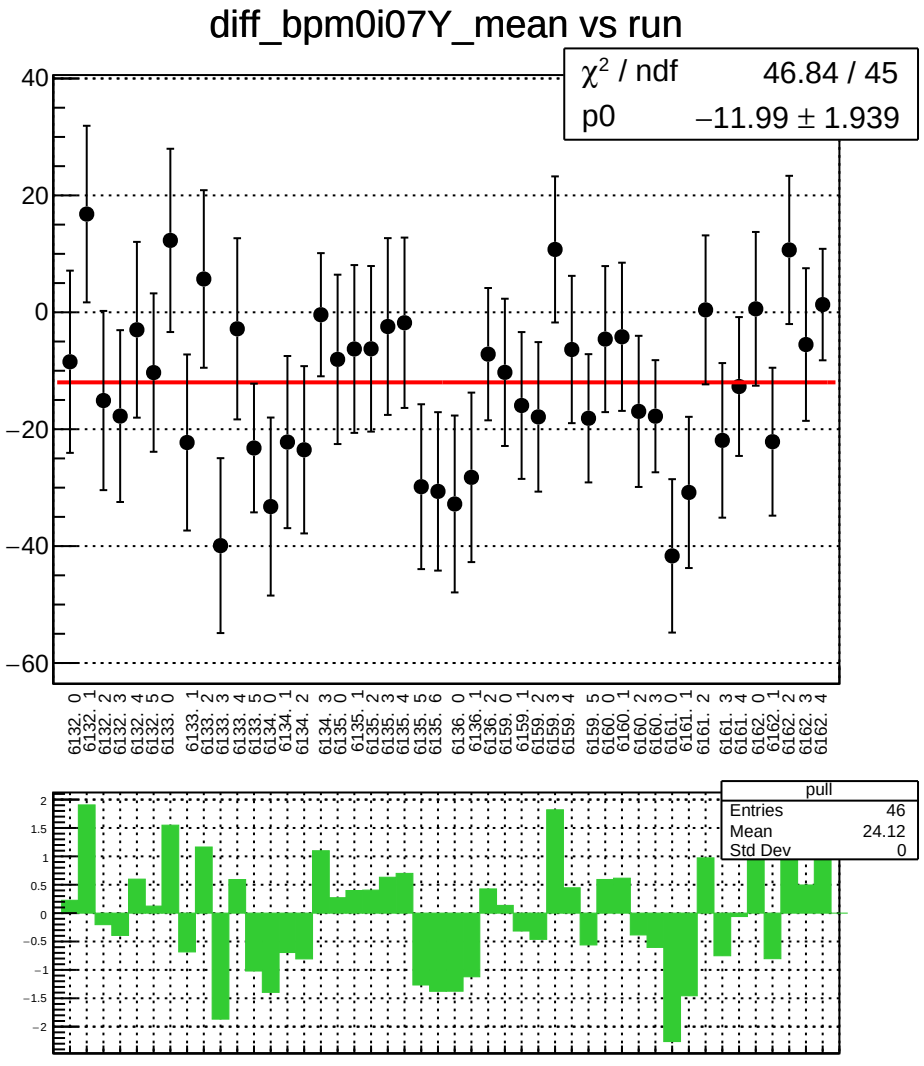

pull1D
Entries 46
Mean 0.007809
Std Dev 1.068

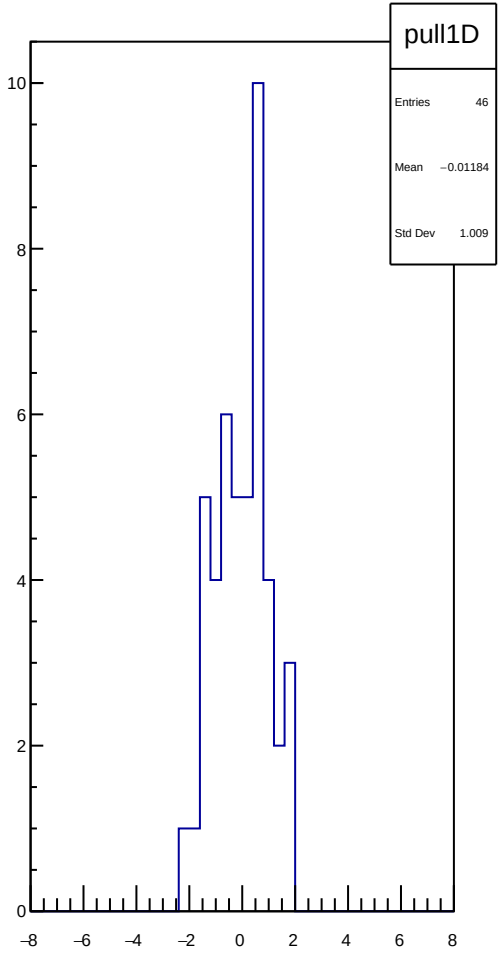

diff_bpm0i05Y_rms vs run
χ² / ndf 2210 / 45
p0 1992 ± 2.081
2250
2200
2150
2100
2050
2000
1950
1900
1850
1800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

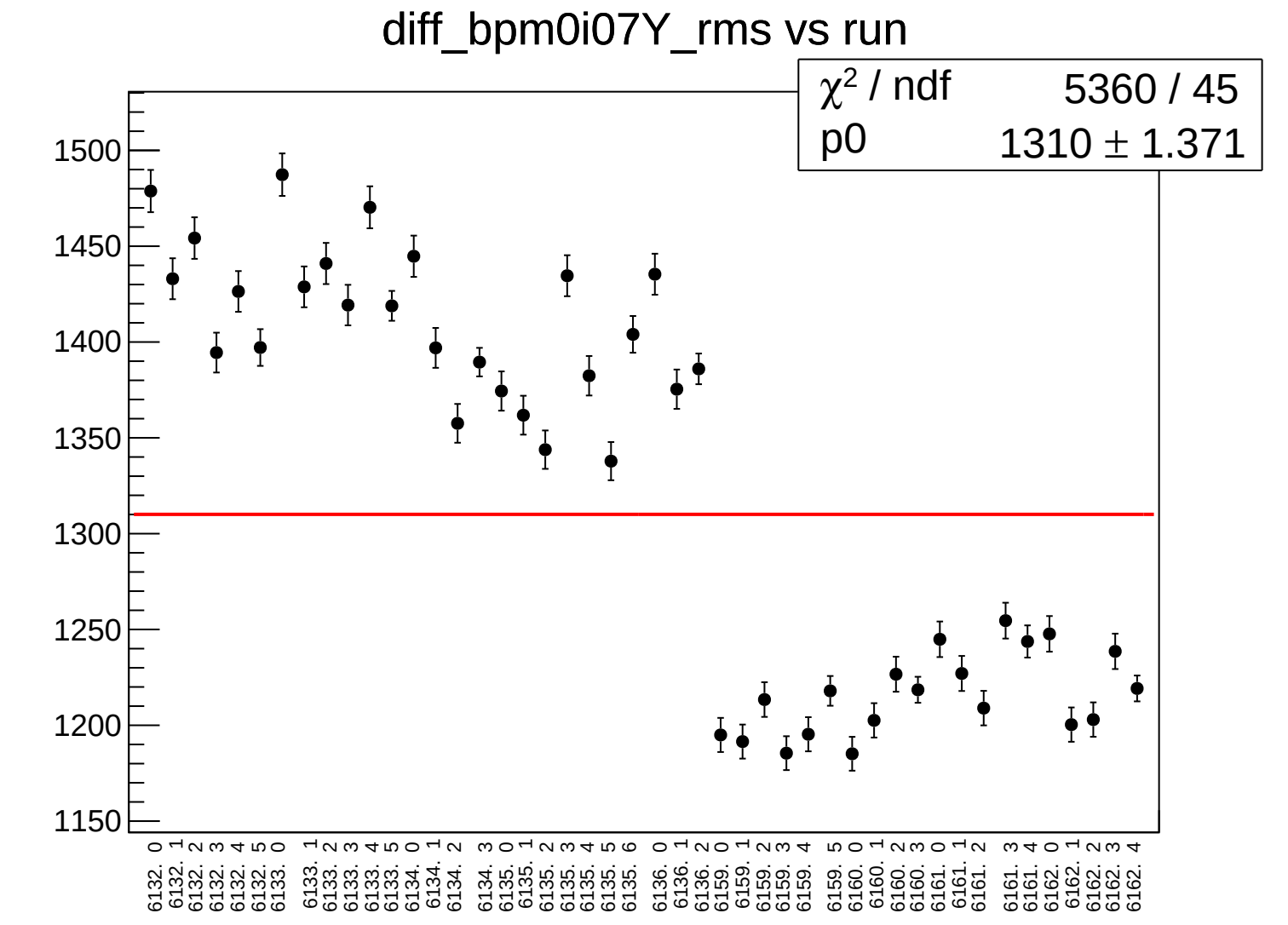

diff_bpm0i07X_mean vs run
χ² / ndf 41.85 / 45
p0 −33.68 ± 2.038
0
−20
−40
−60
−80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 320.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

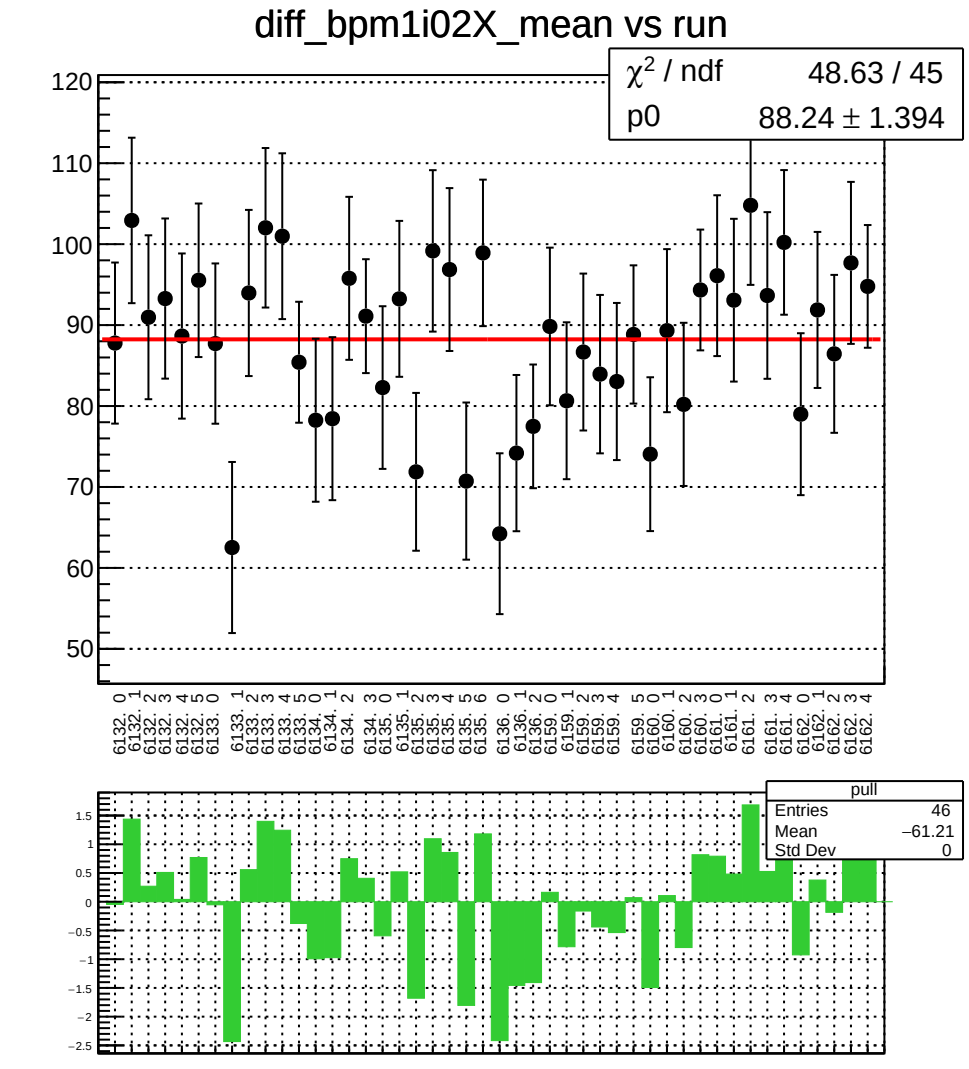

pull1D
Entries 46
Mean 0.00772
Std Dev 0.9537
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

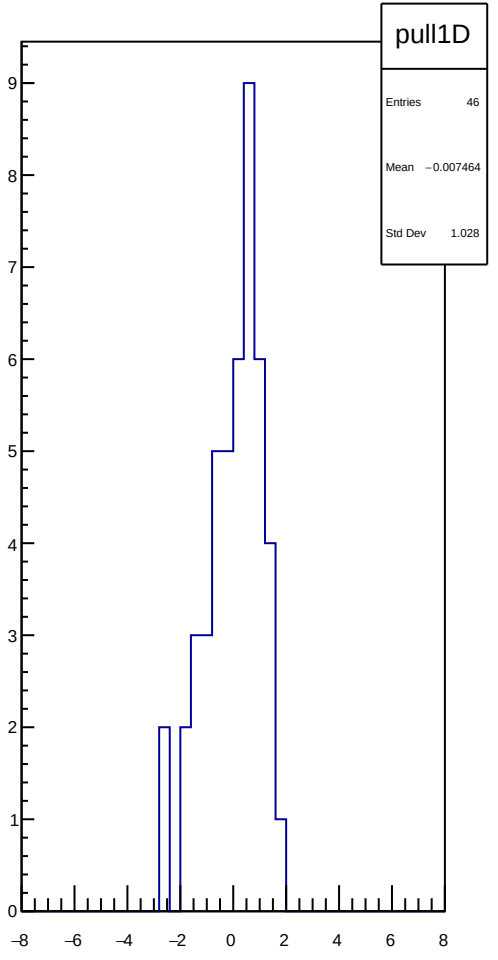

diff_bpm0i07X_rms vs run
χ² / ndf 2699 / 45
p0 1379 ± 1.441
1700
1600
1500
1400
1300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

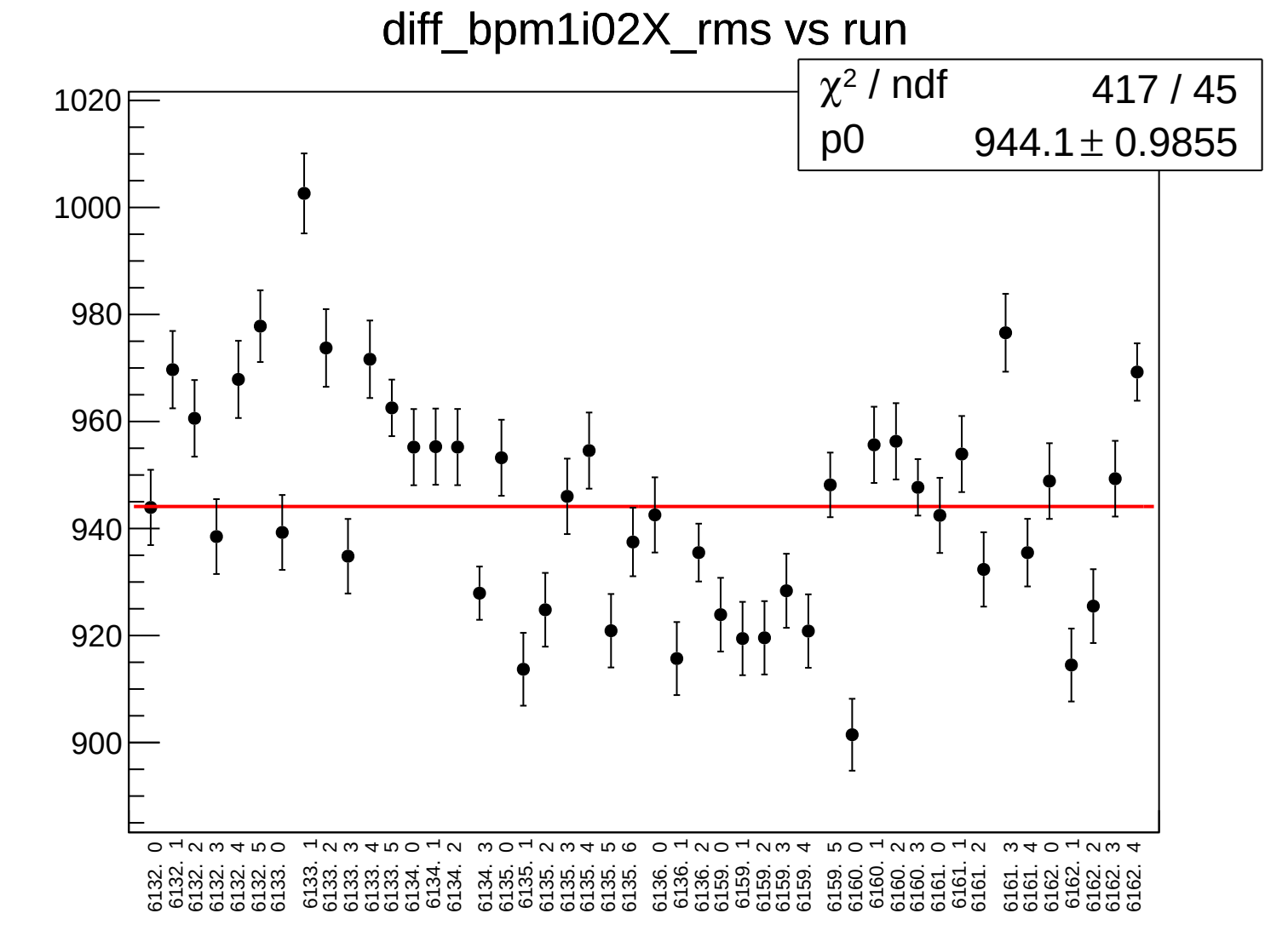

diff_bpm0i07Y_mean vs run
χ^2 / ndf 46.84 / 45
p0 −11.99 ± 1.939
pull
Entries 46
Mean 24.12
Std Dev 0

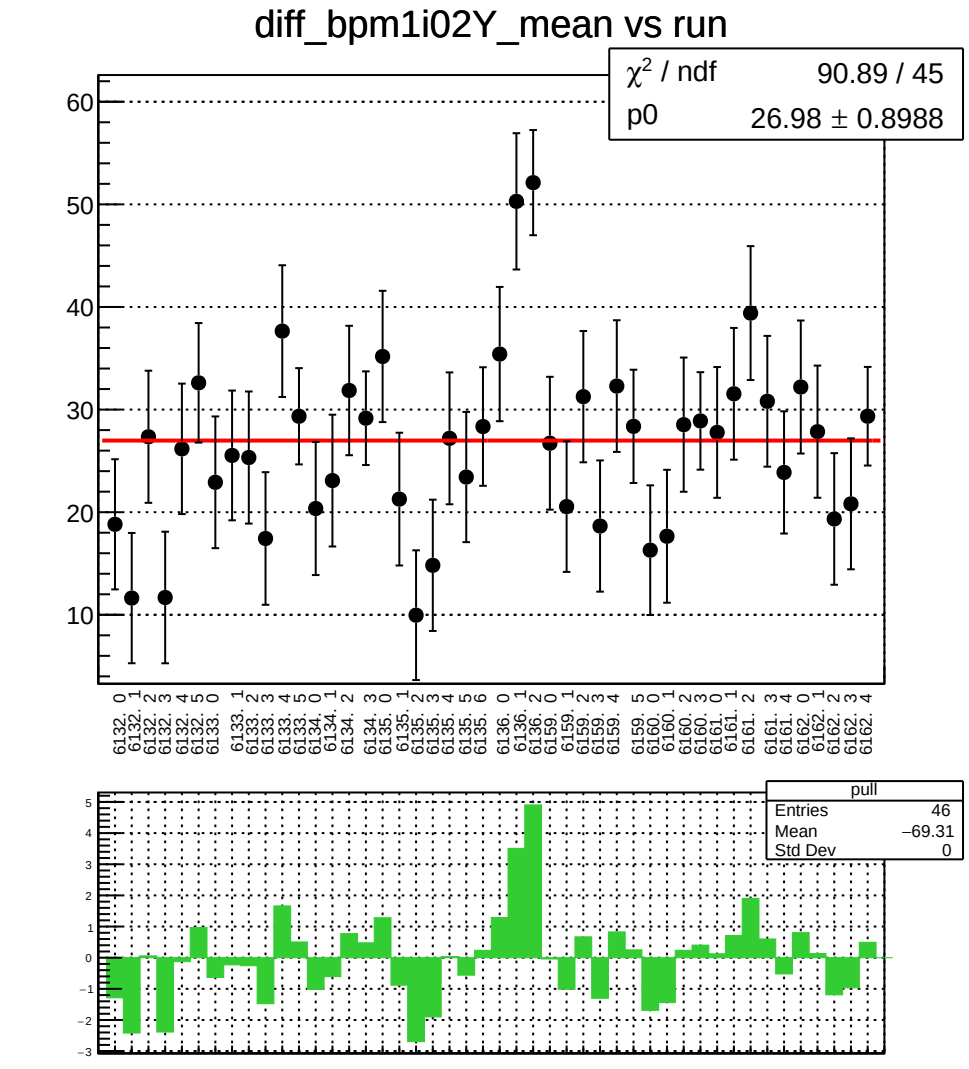

pull1D
Entries 46
Mean −0.01184
Std Dev 1.009

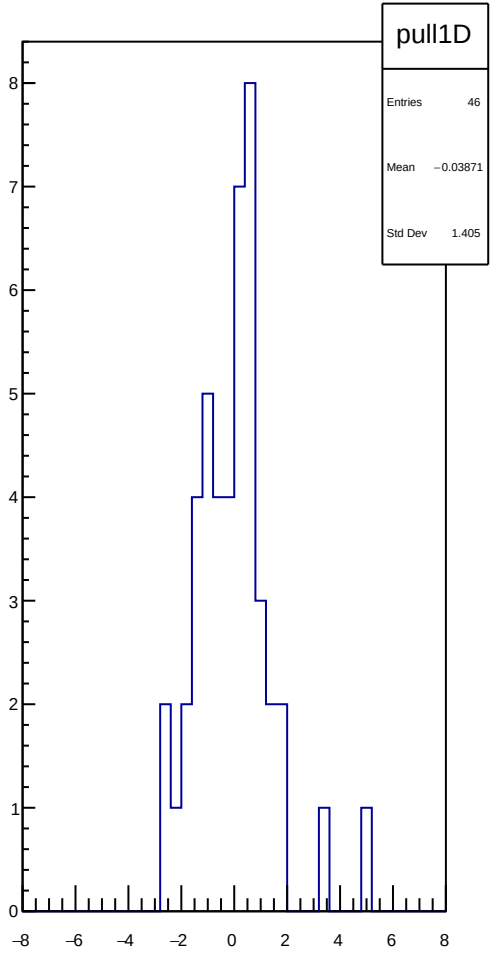

diff_bpm0i07Y_rms vs run
χ² / ndf 5360 / 45
p0 1310 ± 1.371
1500
1450
1400
1350
1300
1250
1200
1150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

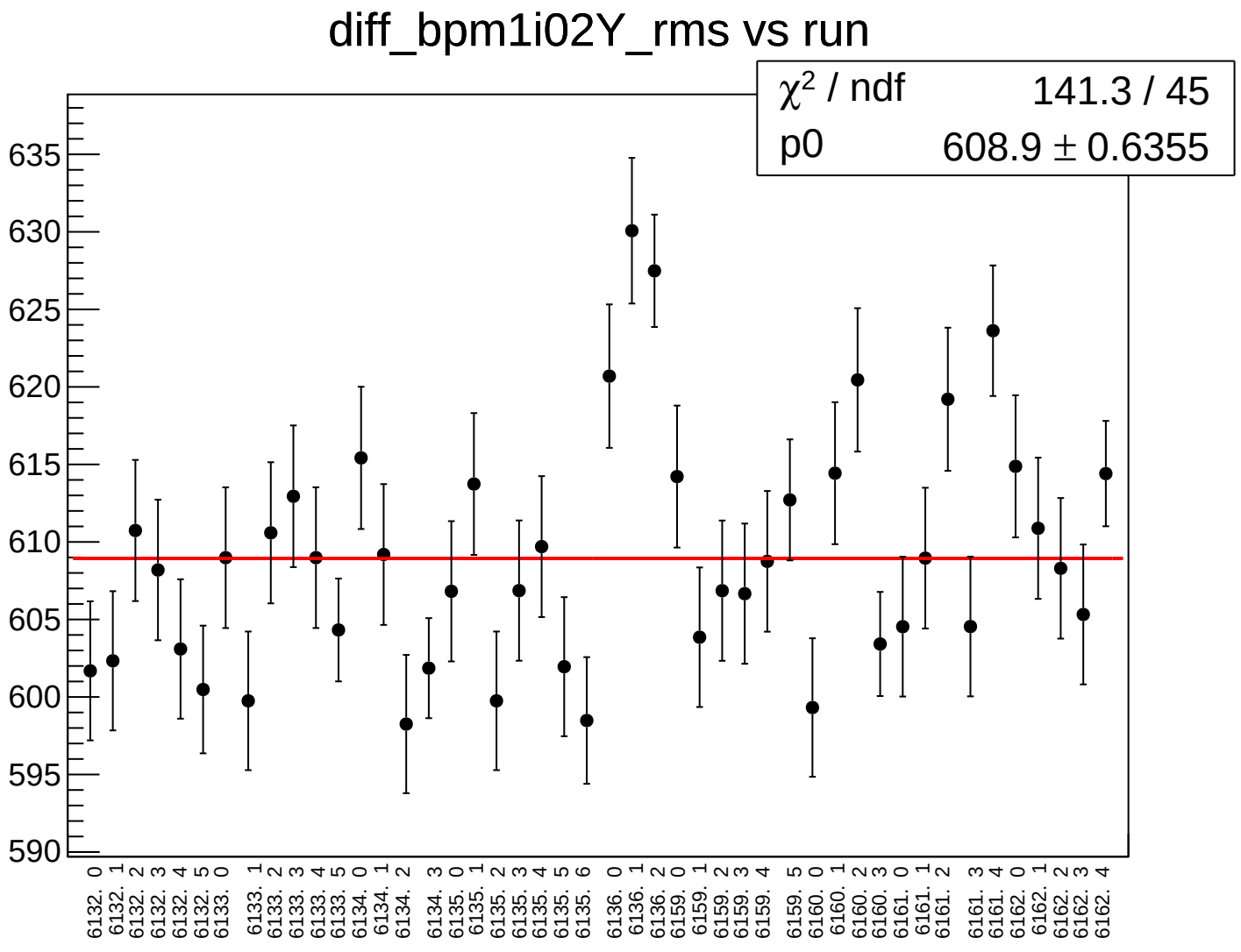

diff_bpm1i02X_mean vs run
χ² / ndf 48.63 / 45
p0 88.24 ± 1.394
pull
Entries 46
Mean −61.21
Std Dev 0

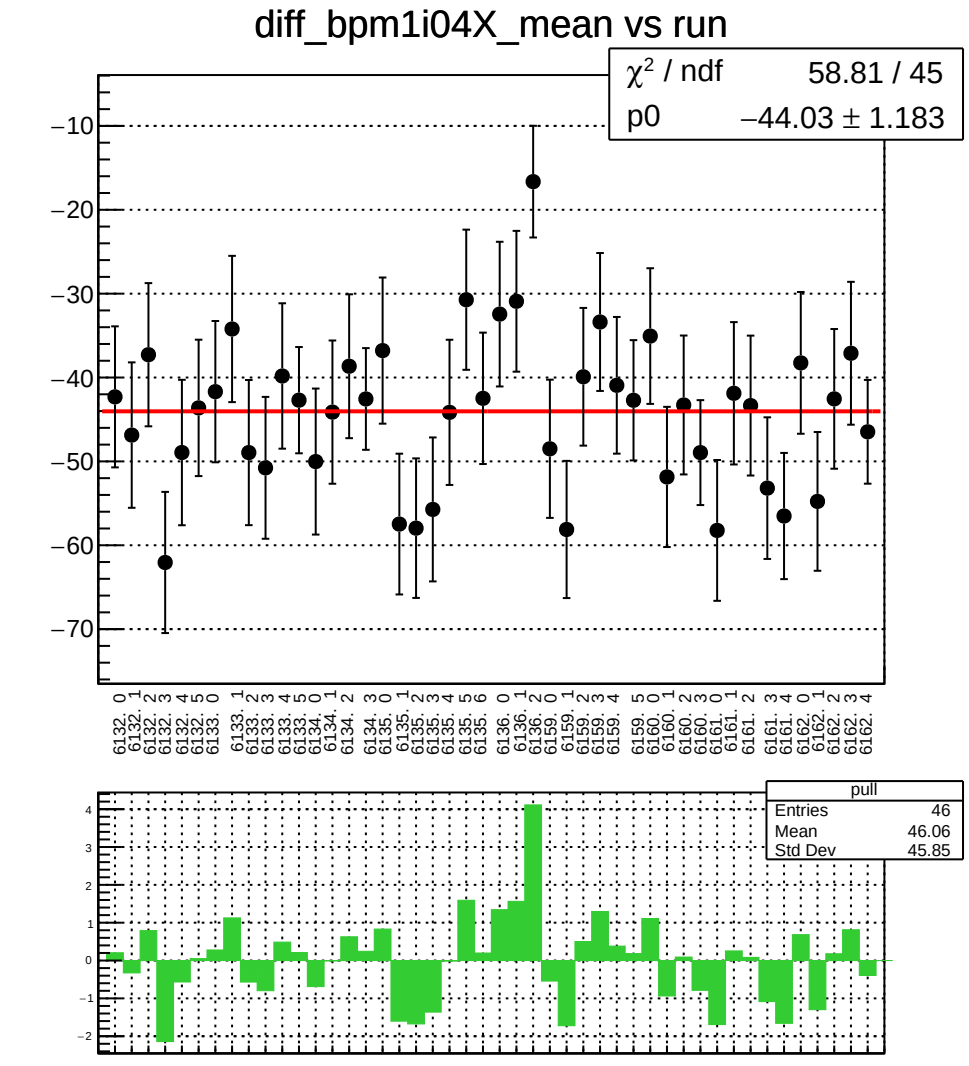

pull1D
Entries 46
Mean −0.007464
Std Dev 1.028

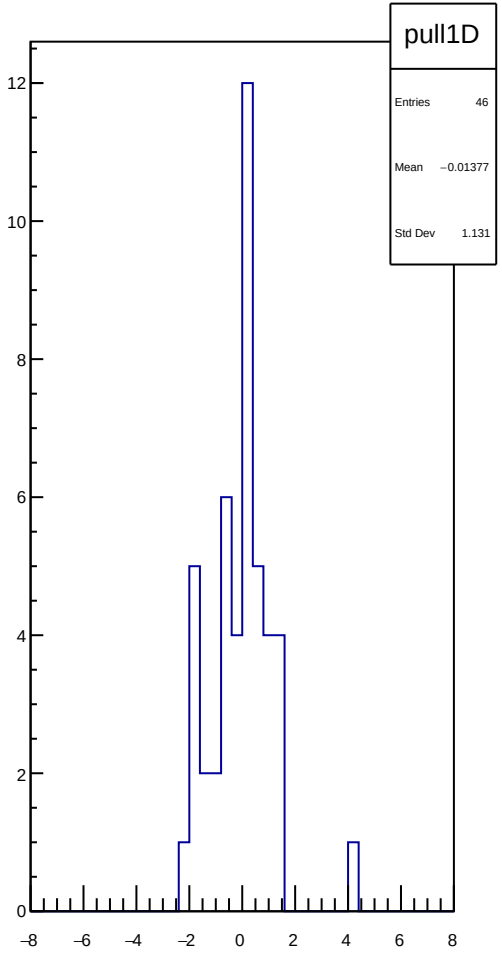

diff_bpm1i02X_rms vs run
χ² / ndf 417 / 45
p0 944.1 ± 0.9855
1020
1000
980
960
940
920
900
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

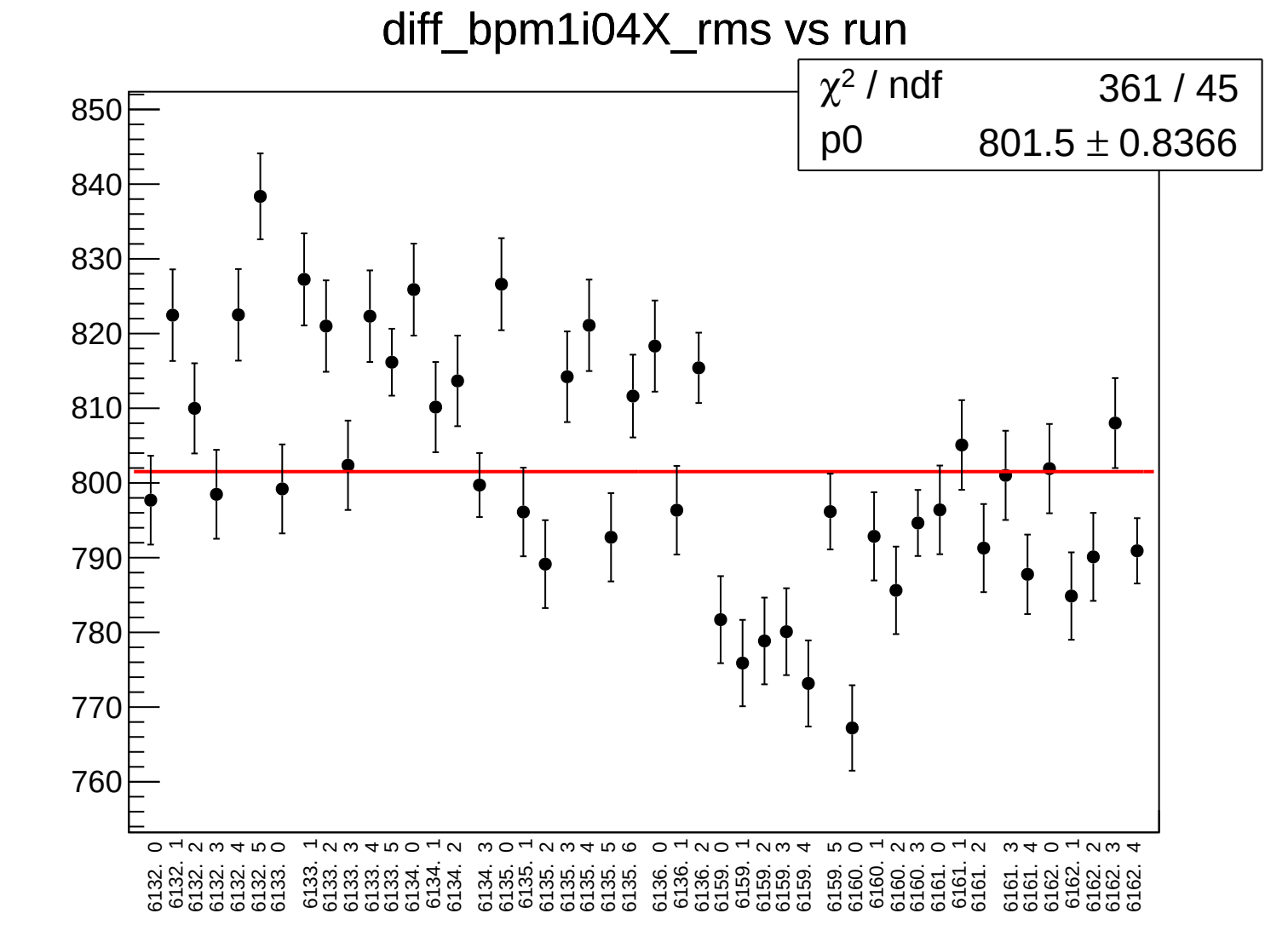

diff_bpm1i02Y_mean vs run
χ² / ndf 90.89 / 45
p0 26.98 ± 0.8988
pull
Entries 46
Mean −69.31
Std Dev 0

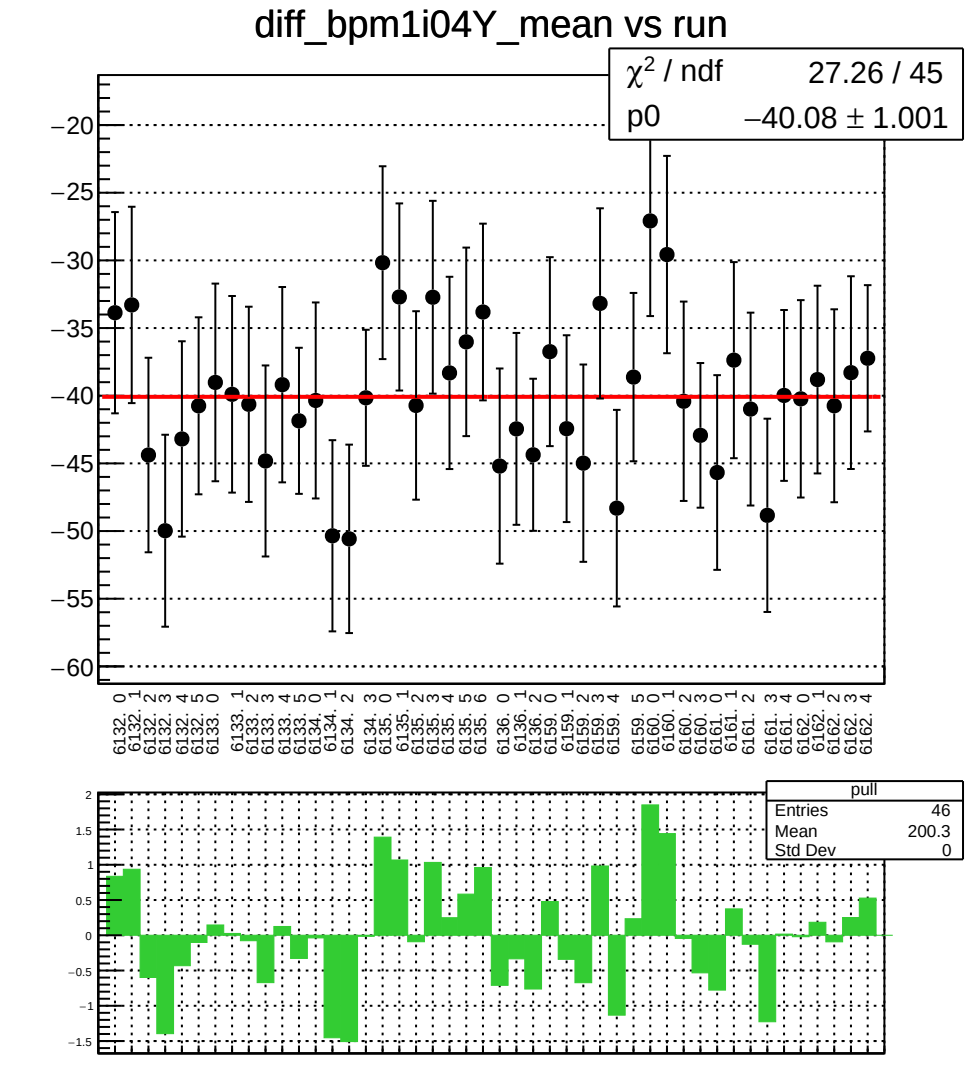

pull1D
Entries 46
Mean −0.03871
Std Dev 1.405

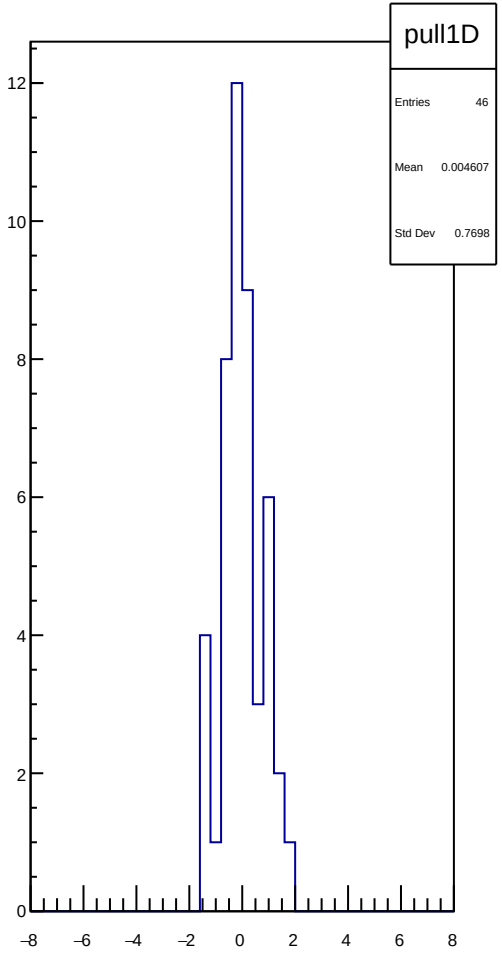

diff_bpm1i02Y_rms vs run
χ² / ndf 141.3 / 45
p0 608.9 ± 0.6355
635
630
625
620
615
610
605
600
595
590
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

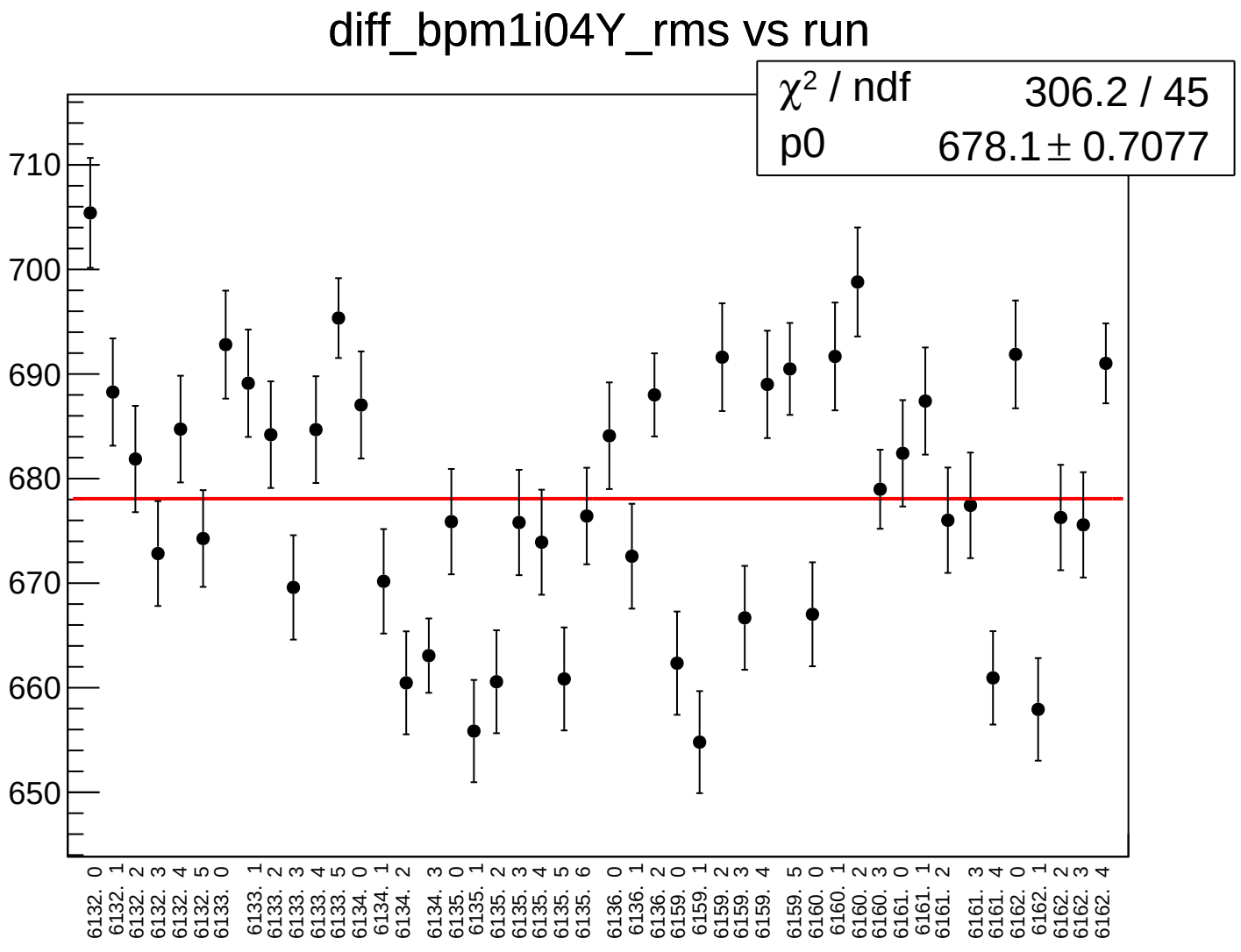

diff_bpm1i04X_mean vs run
χ² / ndf 58.81 / 45
p0 −44.03 ± 1.183
−10
−20
−30
−40
−50
−60
−70
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 46.06
Std Dev 45.85
4
3
2
1
0
−1
−2

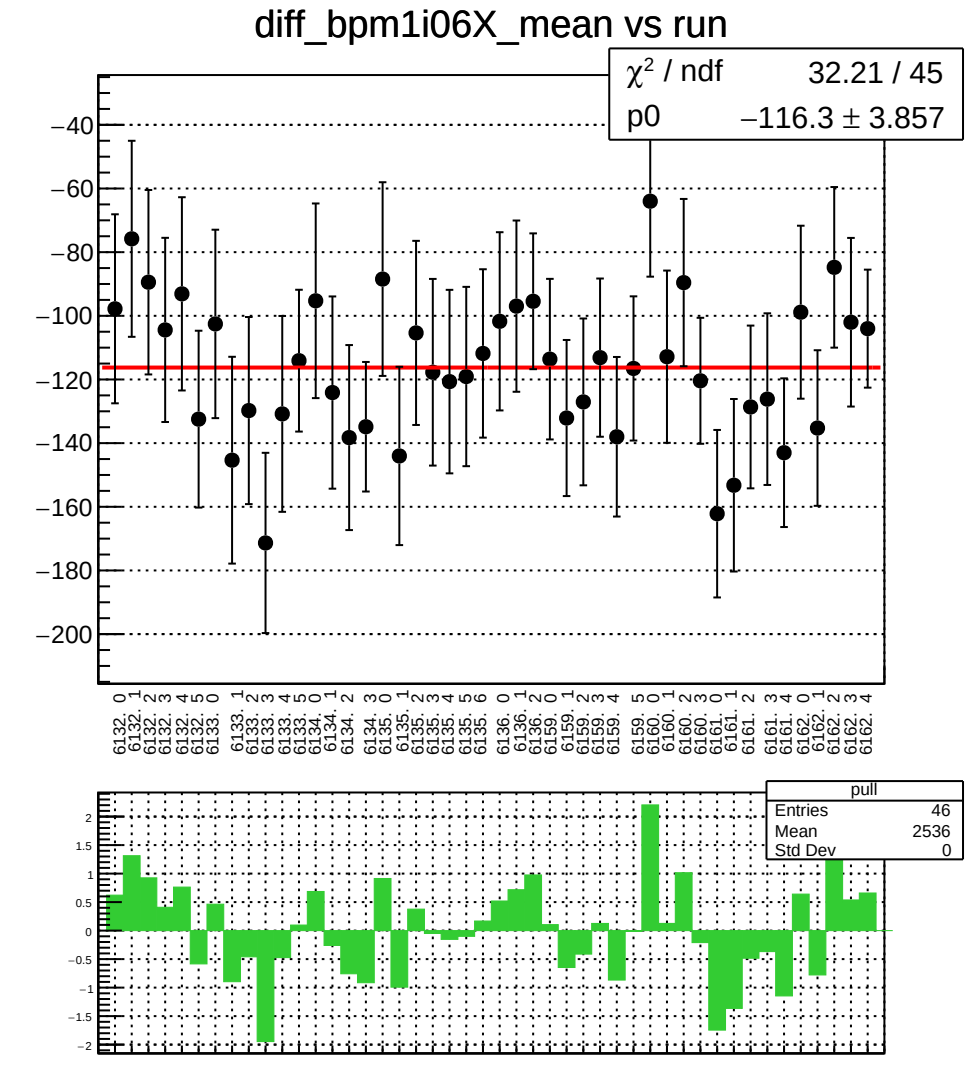

pull1D
Entries 46
Mean −0.01377
Std Dev 1.131
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

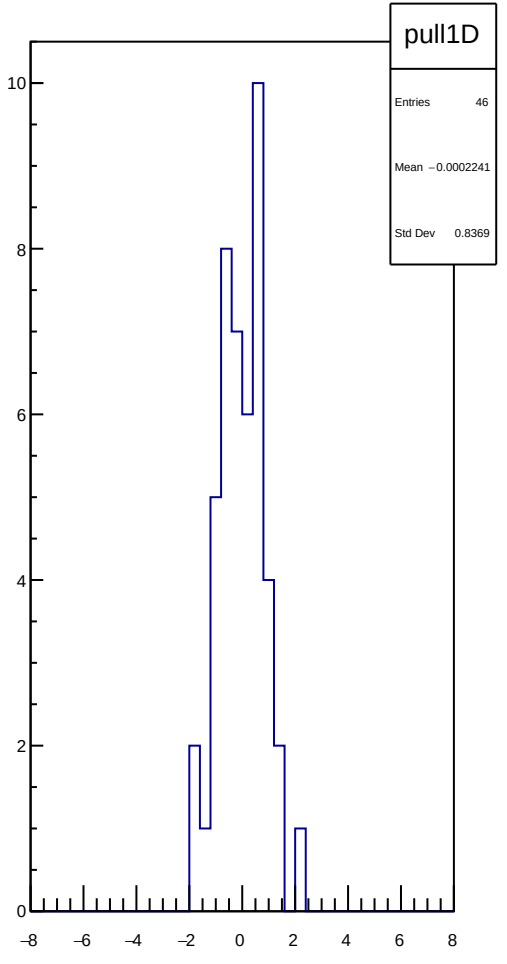

diff_bpm1i04X_rms vs run
χ² / ndf 361 / 45
p0 801.5 ± 0.8366
850
840
830
820
810
800
790
780
770
760
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

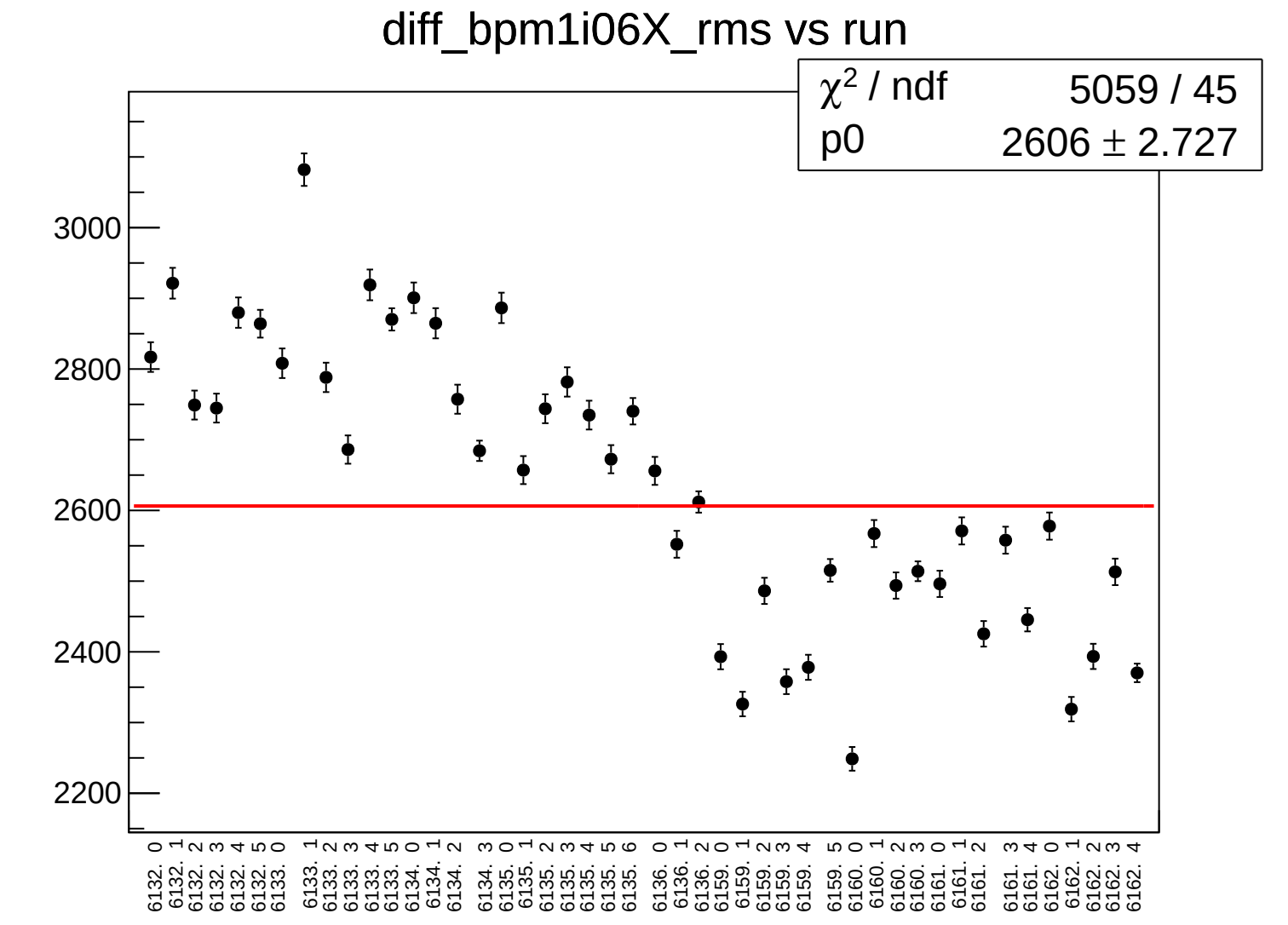

diff_bpm1i04Y_mean vs run
χ² / ndf 27.26 / 45
p0 −40.08 ± 1.001
pull
Entries 46
Mean 200.3
Std Dev 0

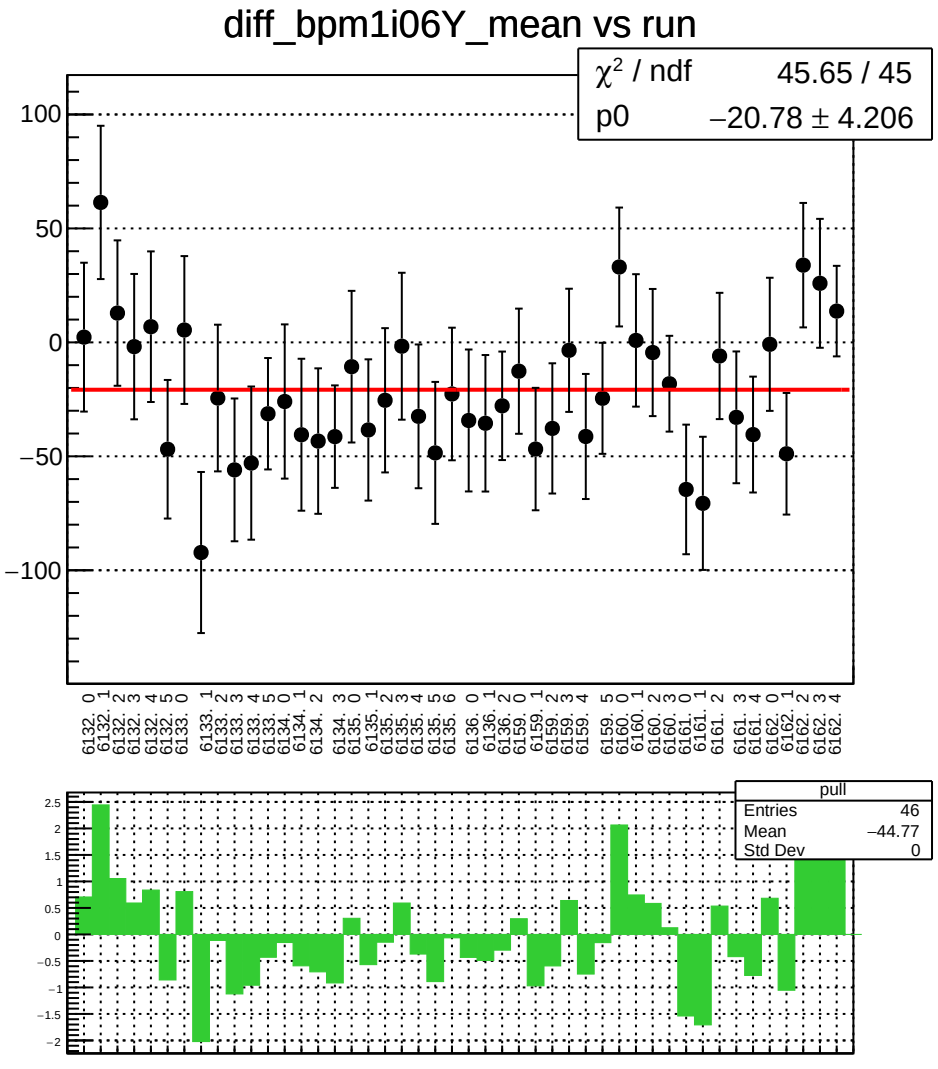

pull1D
Entries 46
Mean 0.004607
Std Dev 0.7698

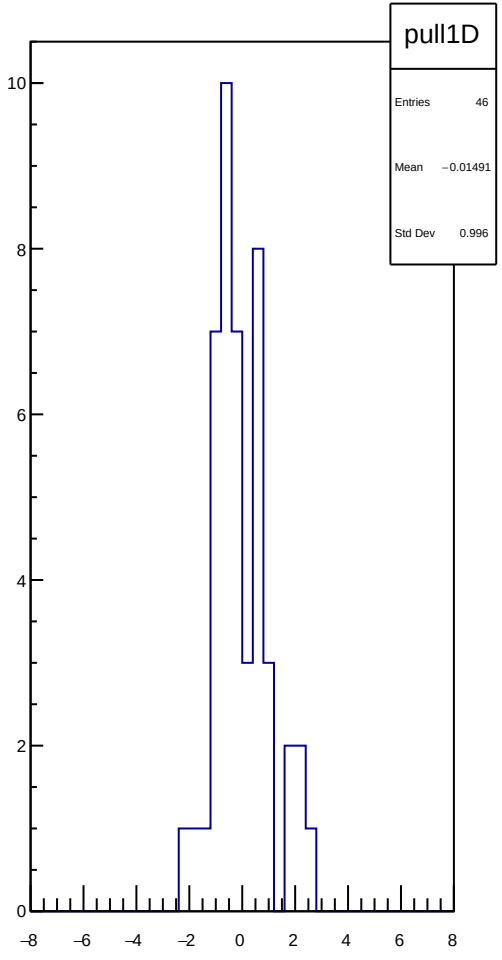

diff_bpm1i04Y_rms vs run
χ² / ndf 306.2 / 45
p0 678.1 ± 0.7077
710
700
690
680
670
660
650
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

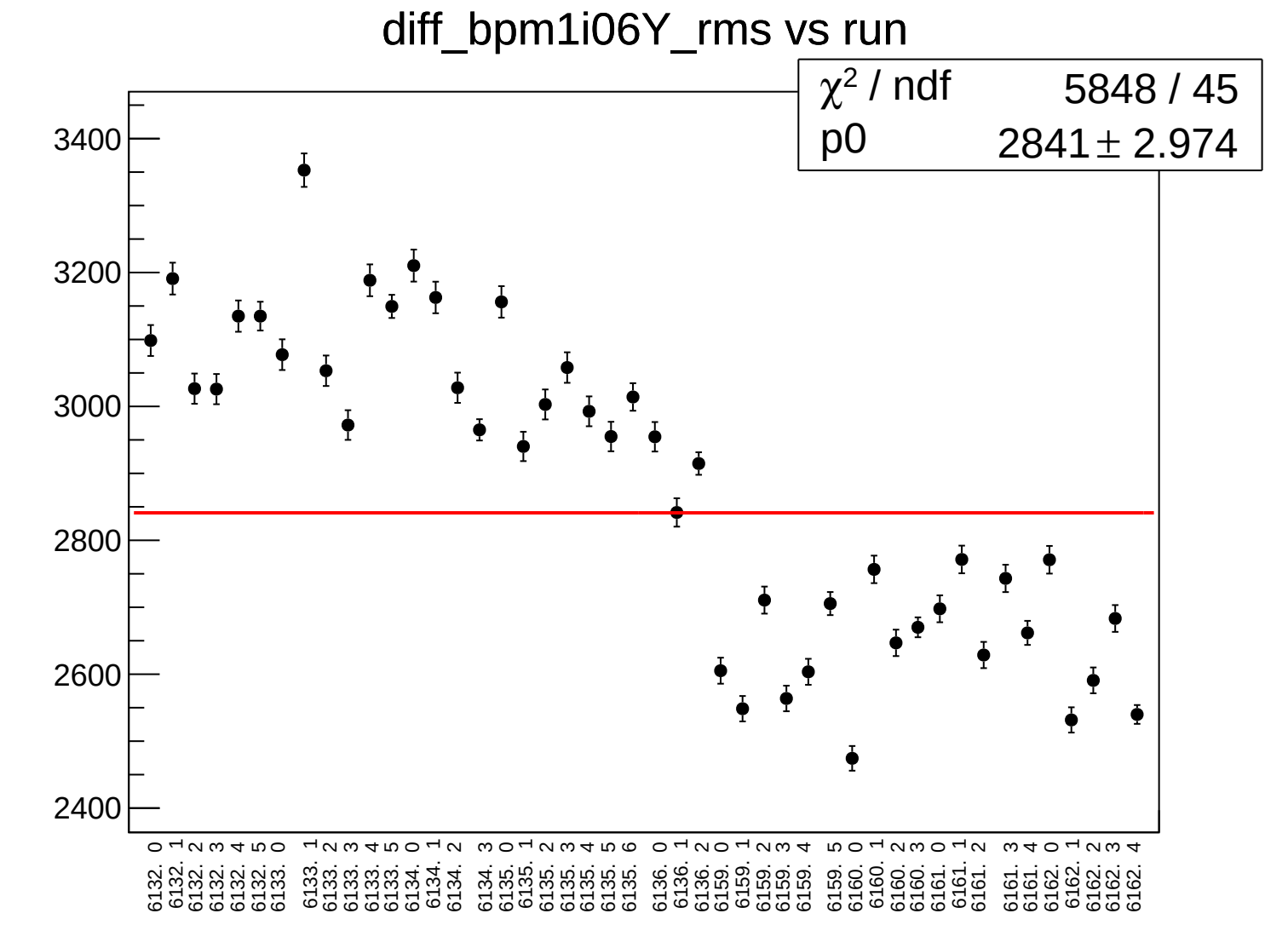

diff_bpm1i06X_mean vs run
χ² / ndf 32.21 / 45
p0 −116.3 ± 3.857
pull
Entries 46
Mean 2536
Std Dev 0

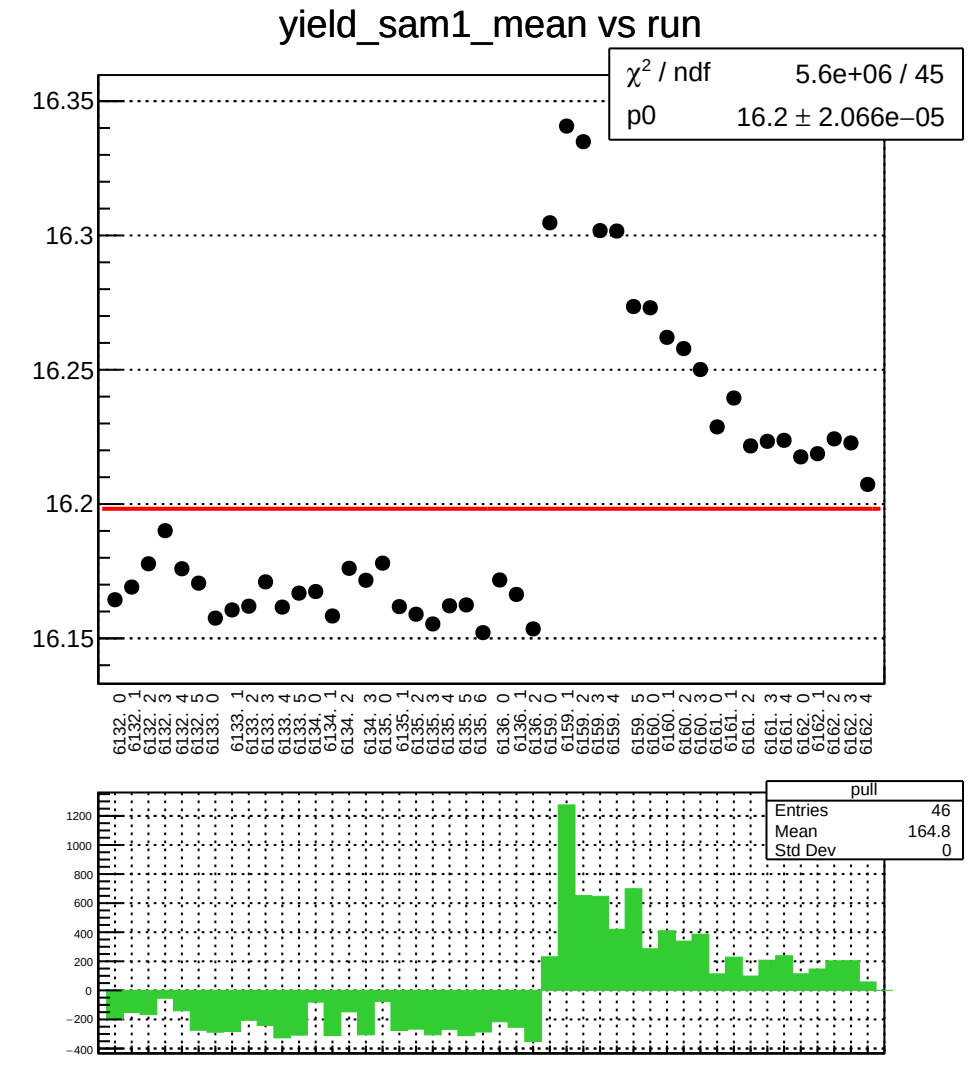

pull1D
Entries 46
Mean −0.0002241
Std Dev 0.8369

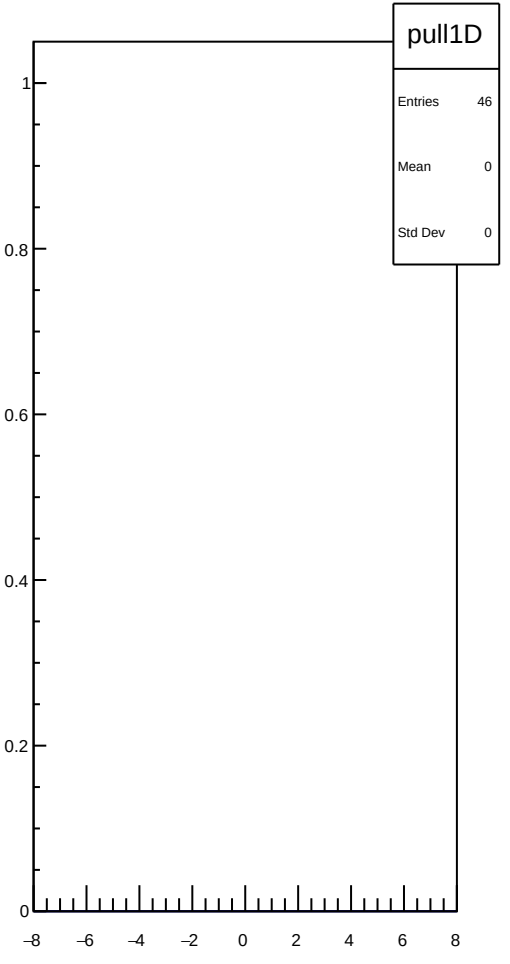

diff_bpm1i06X_rms vs run
χ² / ndf 5059 / 45
p0 2606 ± 2.727
3000
2800
2600
2400
2200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

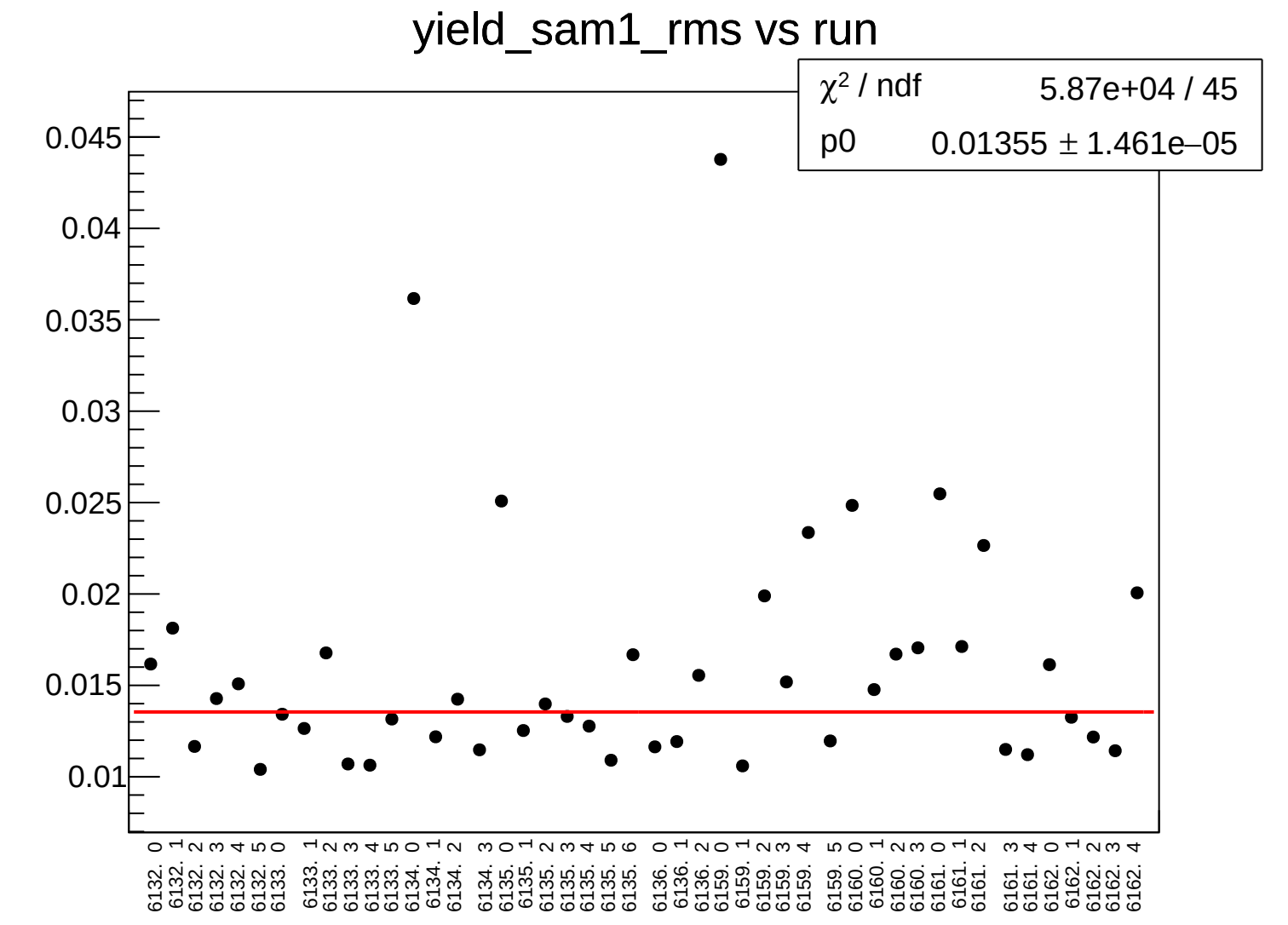

diff_bpm1i06Y_mean vs run
χ² / ndf 45.65 / 45
p0 −20.78 ± 4.206
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −44.77
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

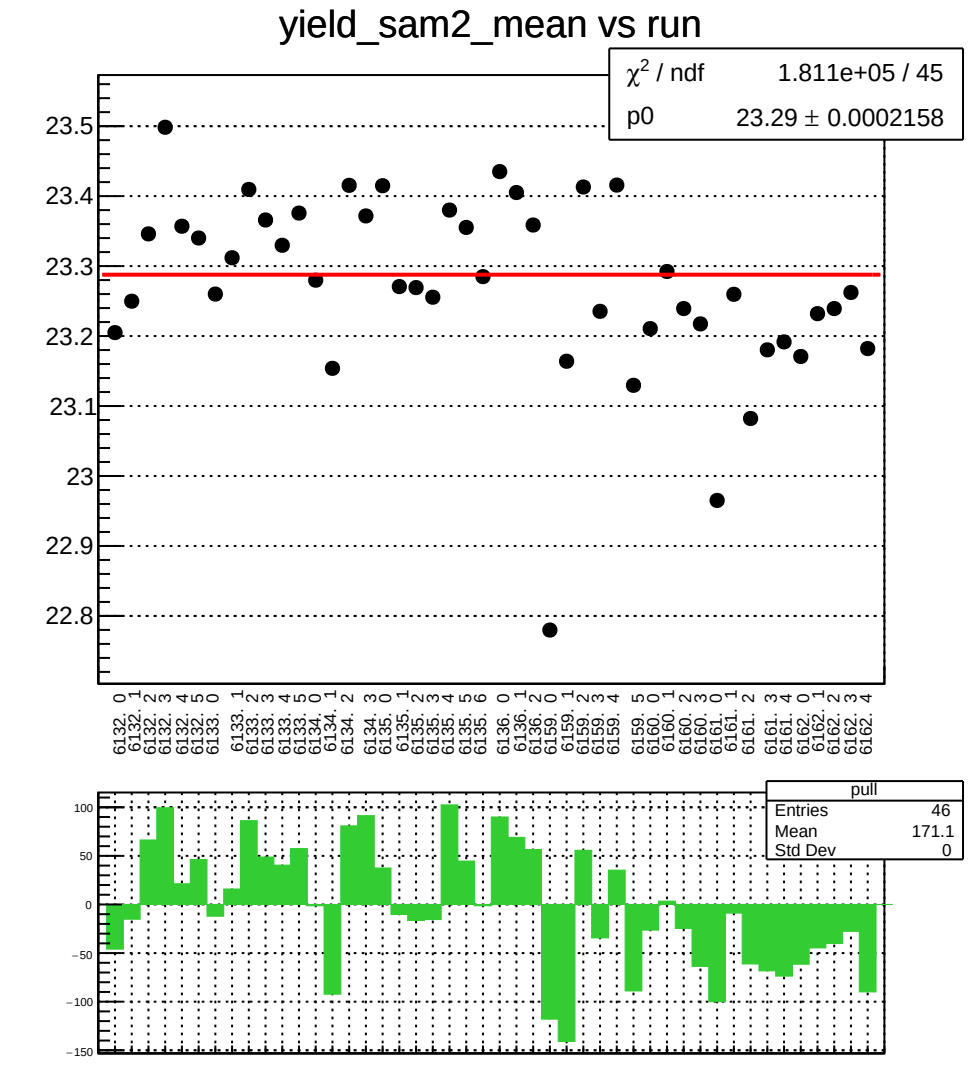

pull1D
Entries 46
Mean −0.01491
Std Dev 0.996
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

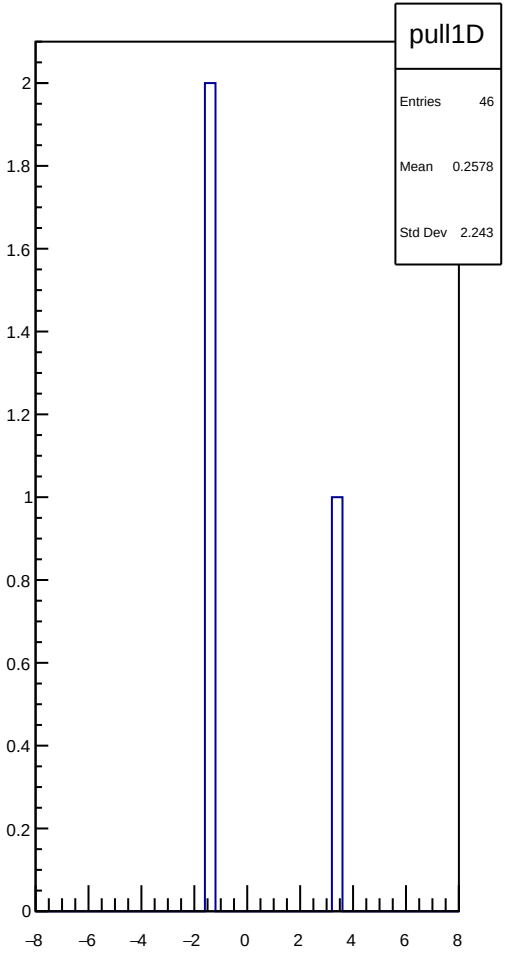

diff_bpm1i06Y_rms vs run
χ² / ndf 5848 / 45
p0 2841 ± 2.974
3400
3200
3000
2800
2600
2400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

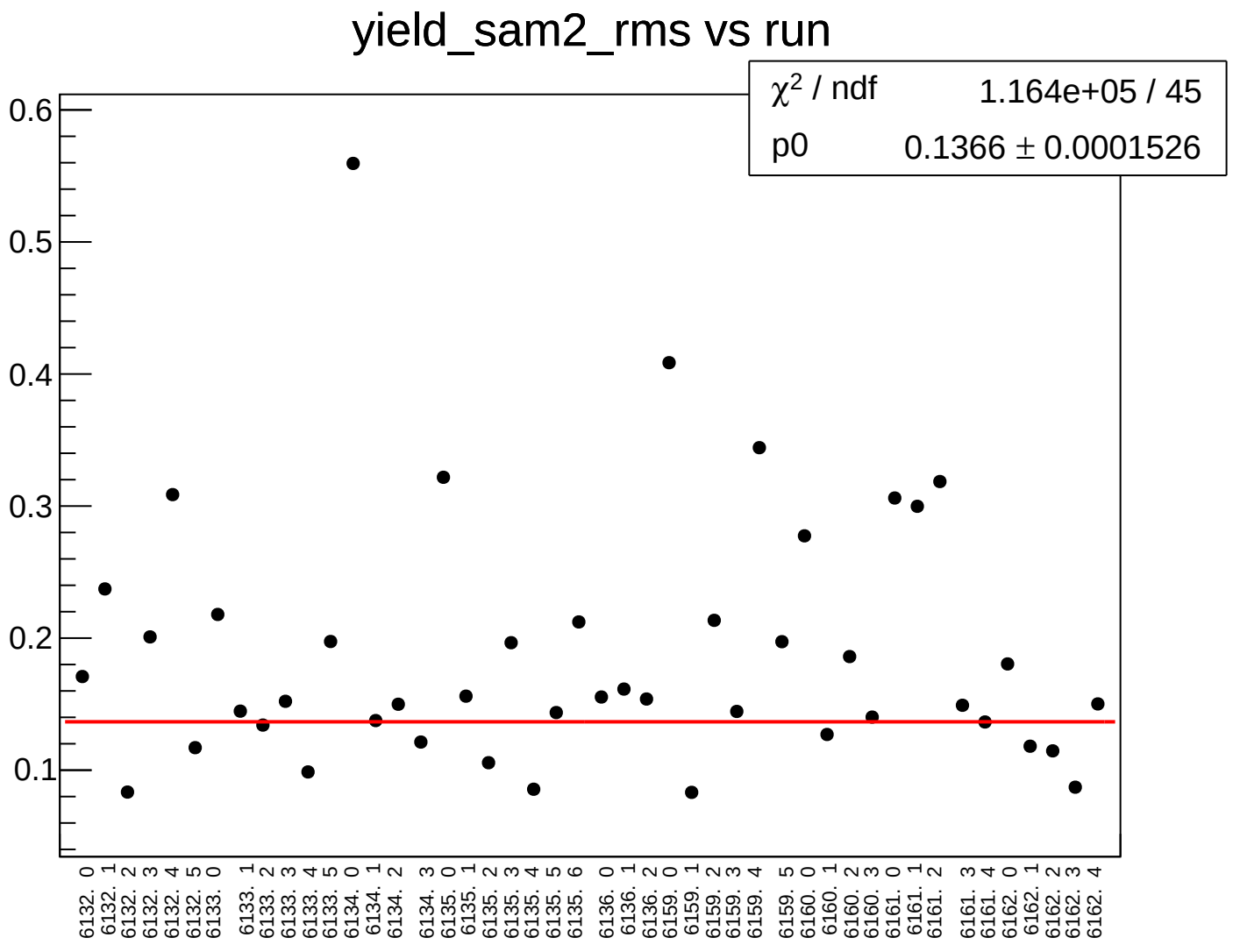

yield_sam1_mean vs run
χ² / ndf 5.6e+06 / 45
p0 16.2 ± 2.066e−05
16.35
16.3
16.25
16.2
16.15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 164.8
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400

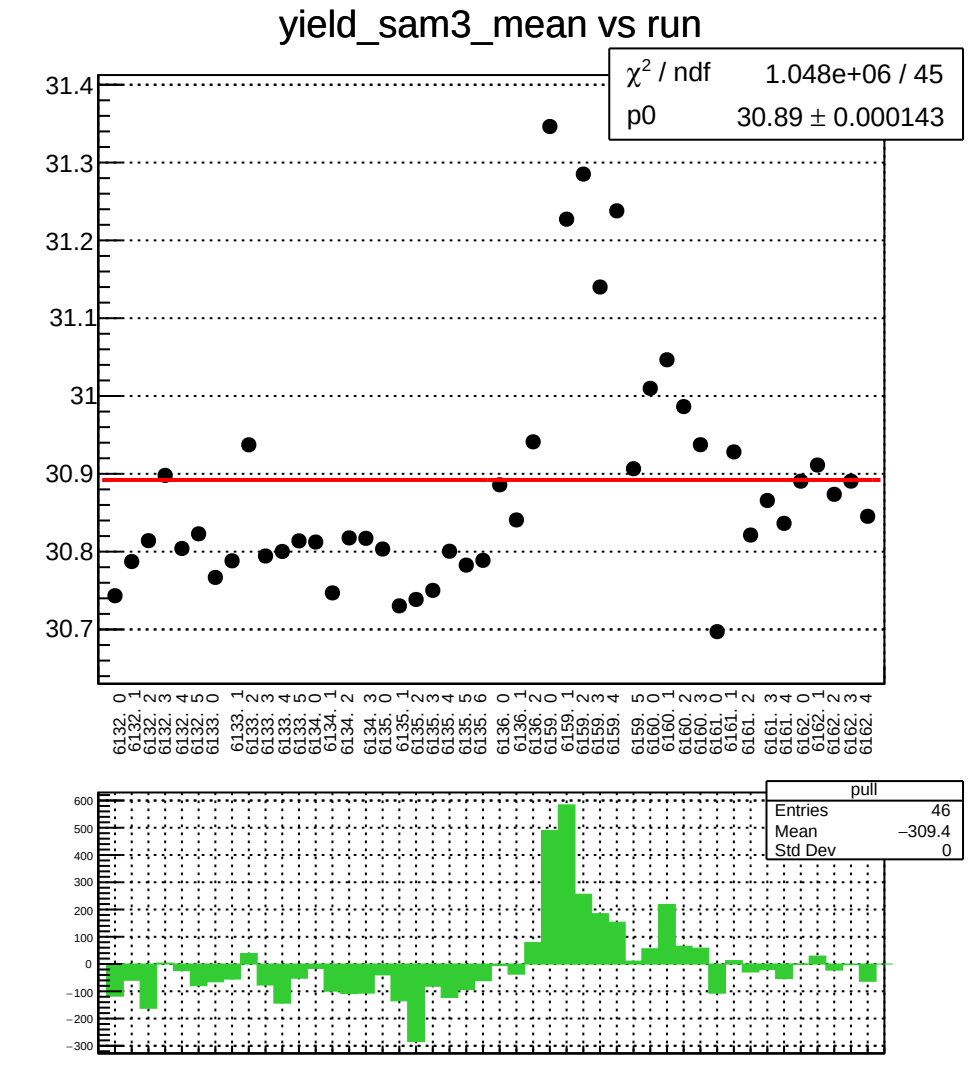

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

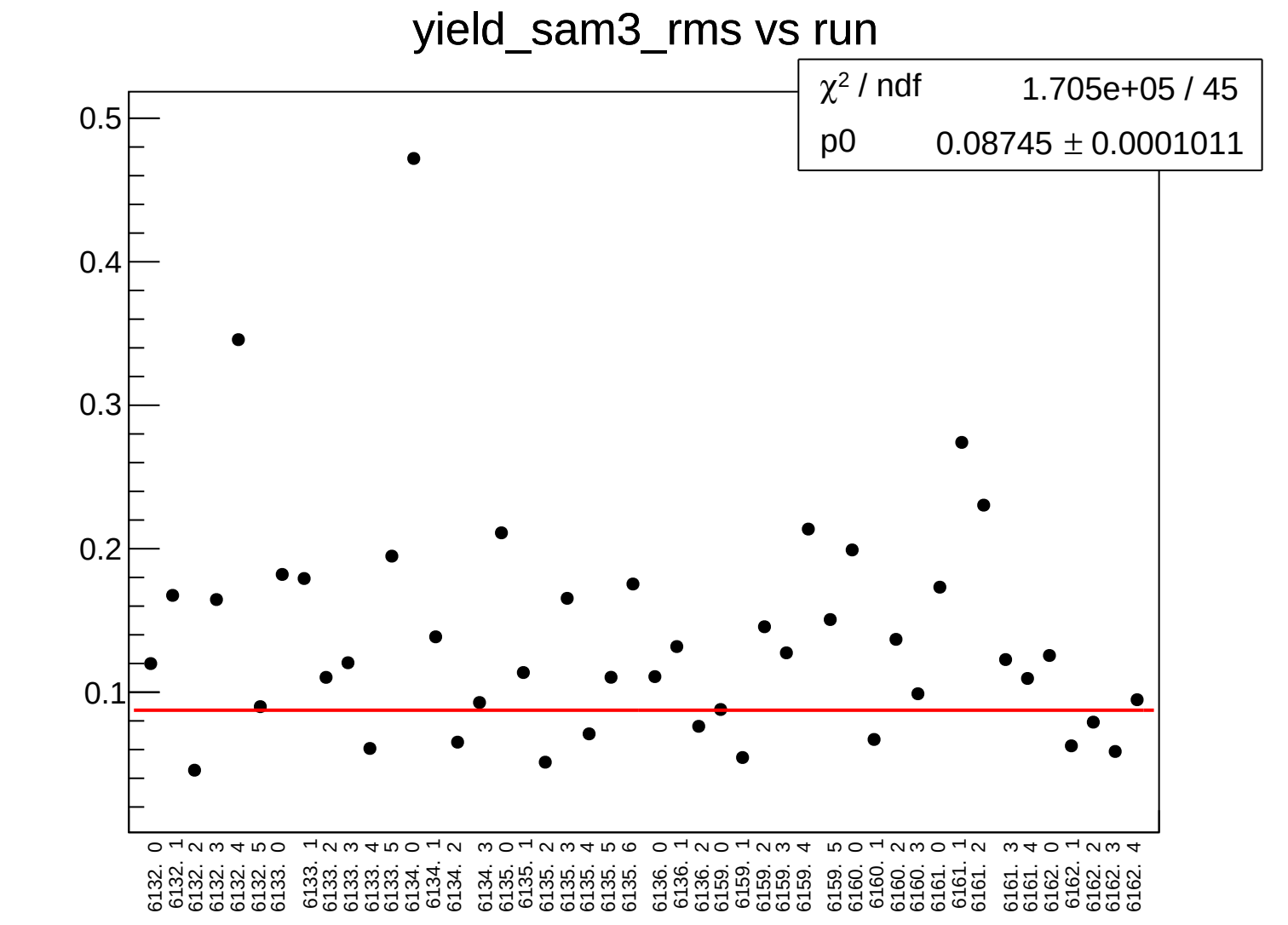

yield_sam1_rms vs run
χ² / ndf 5.87e+04 / 45
p0 0.01355 ± 1.461e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

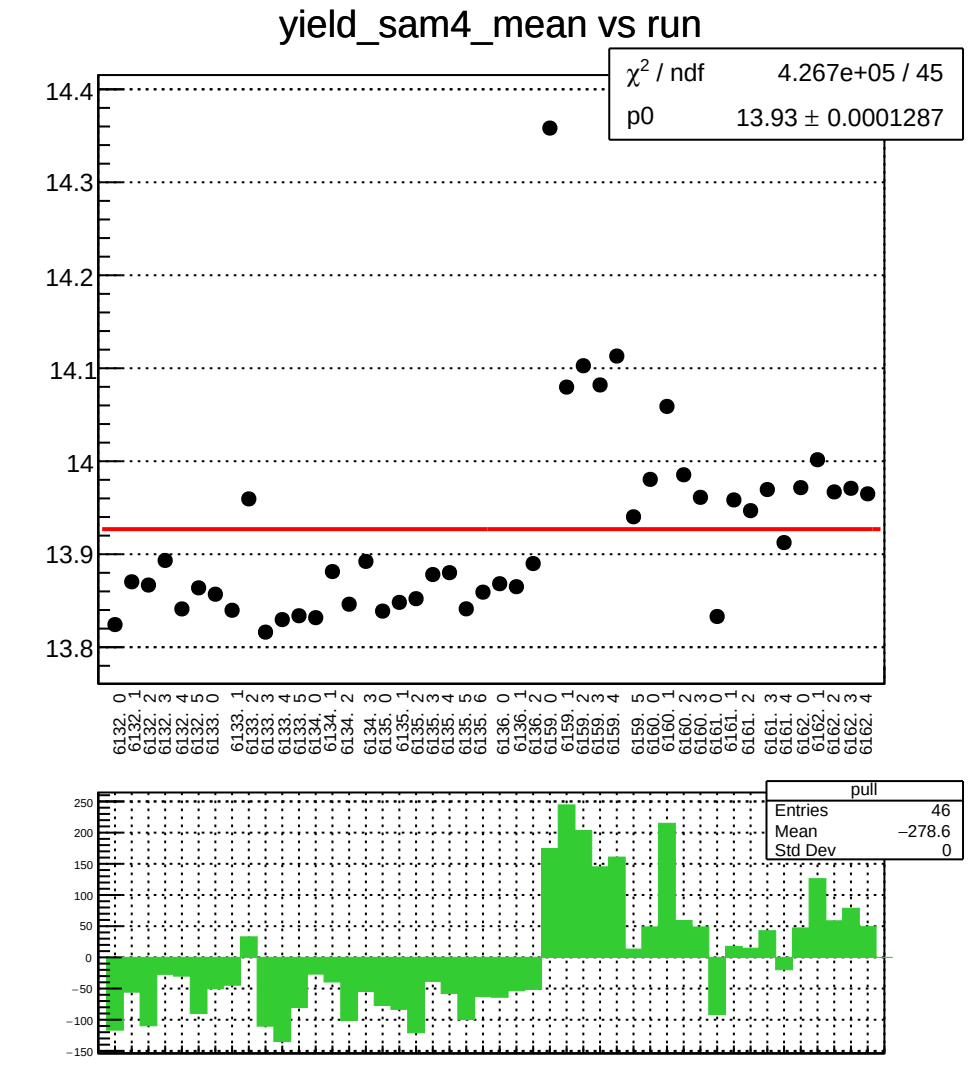

yield_sam2_mean vs run
χ² / ndf 1.811e+05 / 45
p0 23.29 ± 0.0002158
23.5
23.4
23.3
23.2
23.1
23
22.9
22.8
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 171.1
Std Dev 0
100
50
0
−50
−100
−150

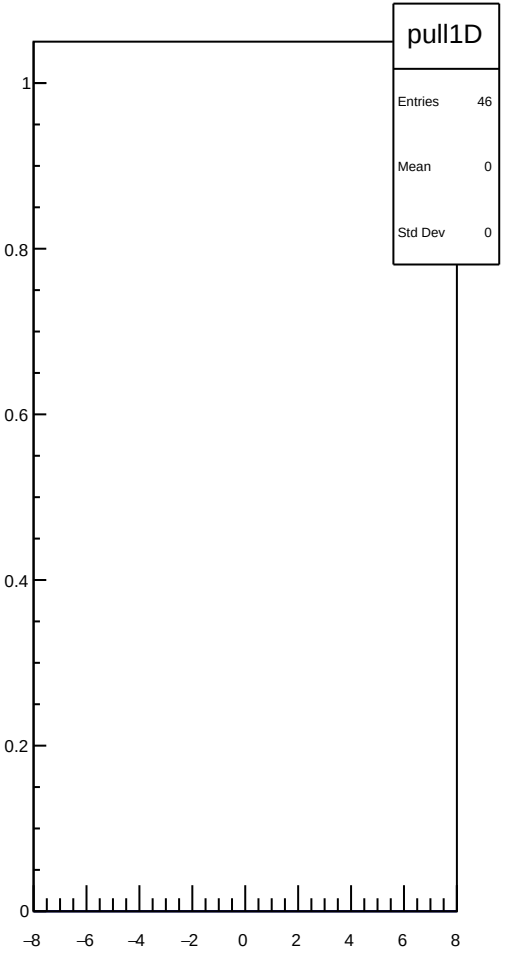

pull1D
Entries 46
Mean 0.2578
Std Dev 2.243
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

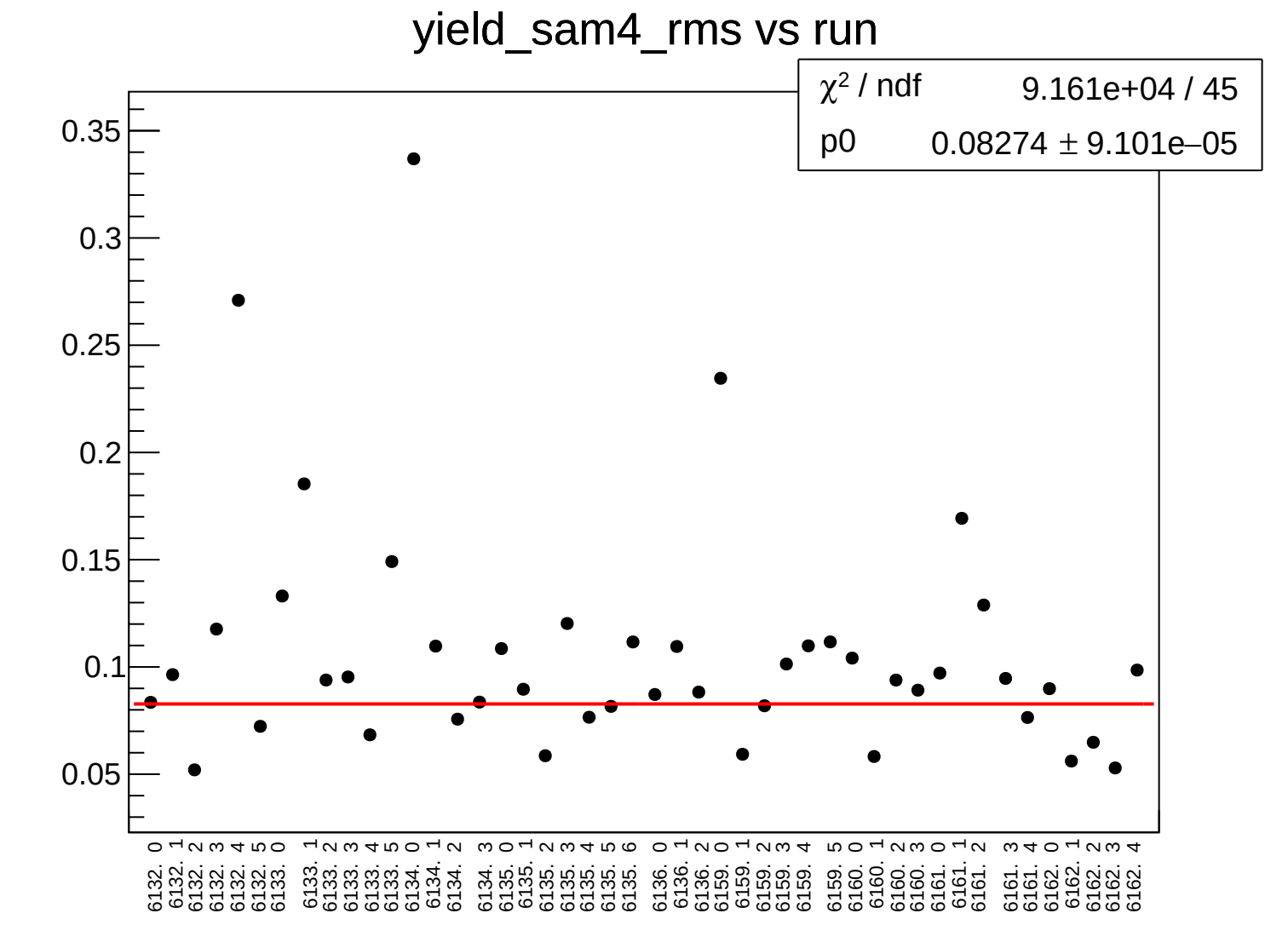

yield_sam2_rms vs run
χ² / ndf 1.164e+05 / 45
p0 0.1366 ± 0.0001526
0.6
0.5
0.4
0.3
0.2
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

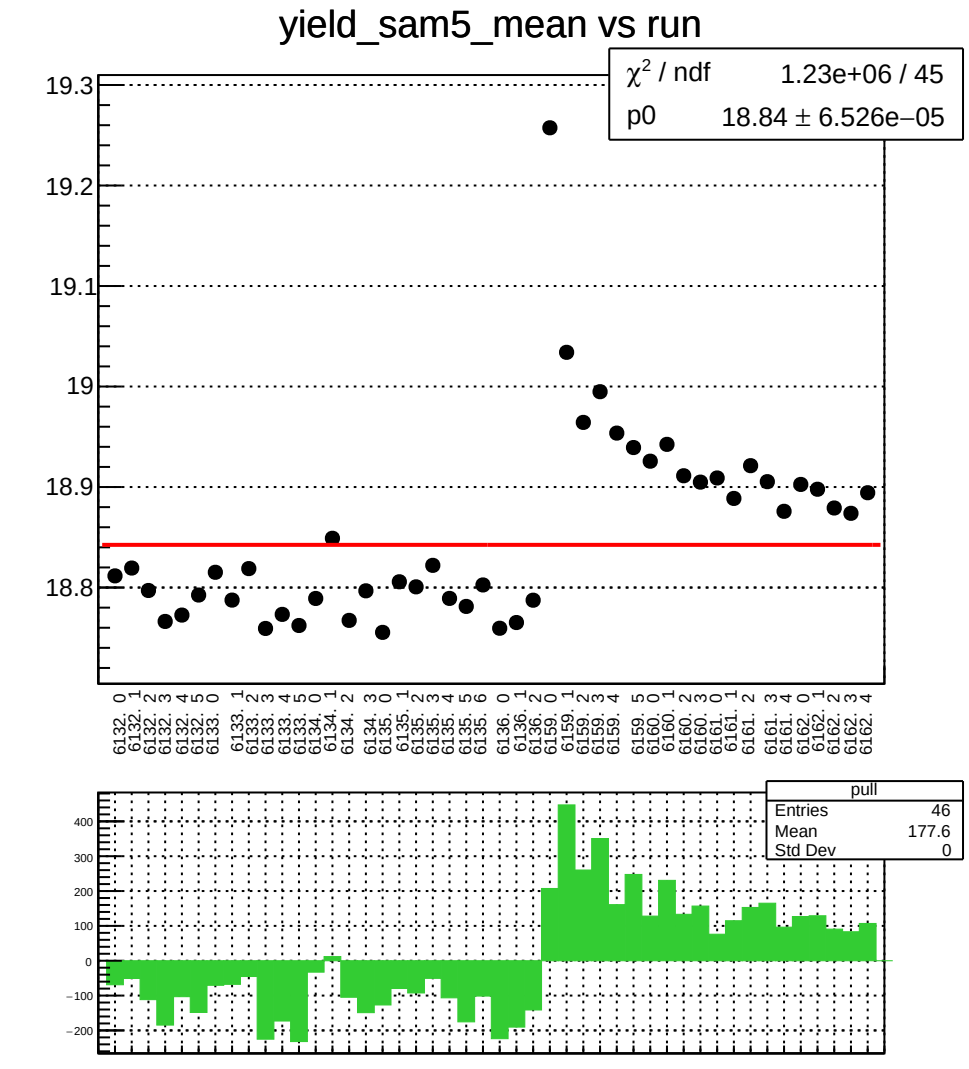

yield_sam3_mean vs run
χ² / ndf 1.048e+06 / 45
p0 30.89 ± 0.000143
31.4
31.3
31.2
31.1
31
30.9
30.8
30.7
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −309.4
Std Dev 0
600
500
400
300
200
100
0
−100
−200
−300
pull1D
Entries 46
Mean −1.368
Std Dev 3.145
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

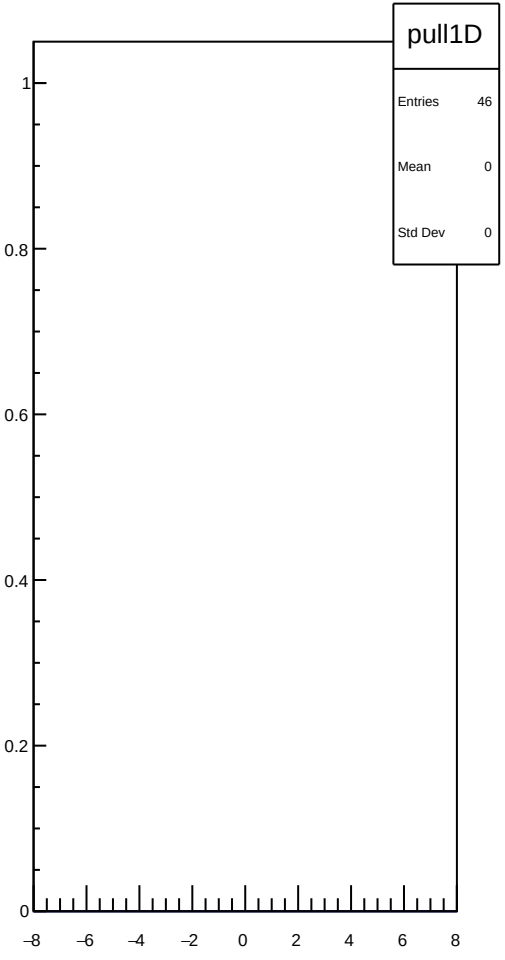

yield_sam3_rms vs run
χ² / ndf 1.705e+05 / 45
p0 0.08745 ± 0.0001011
0.5
0.4
0.3
0.2
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

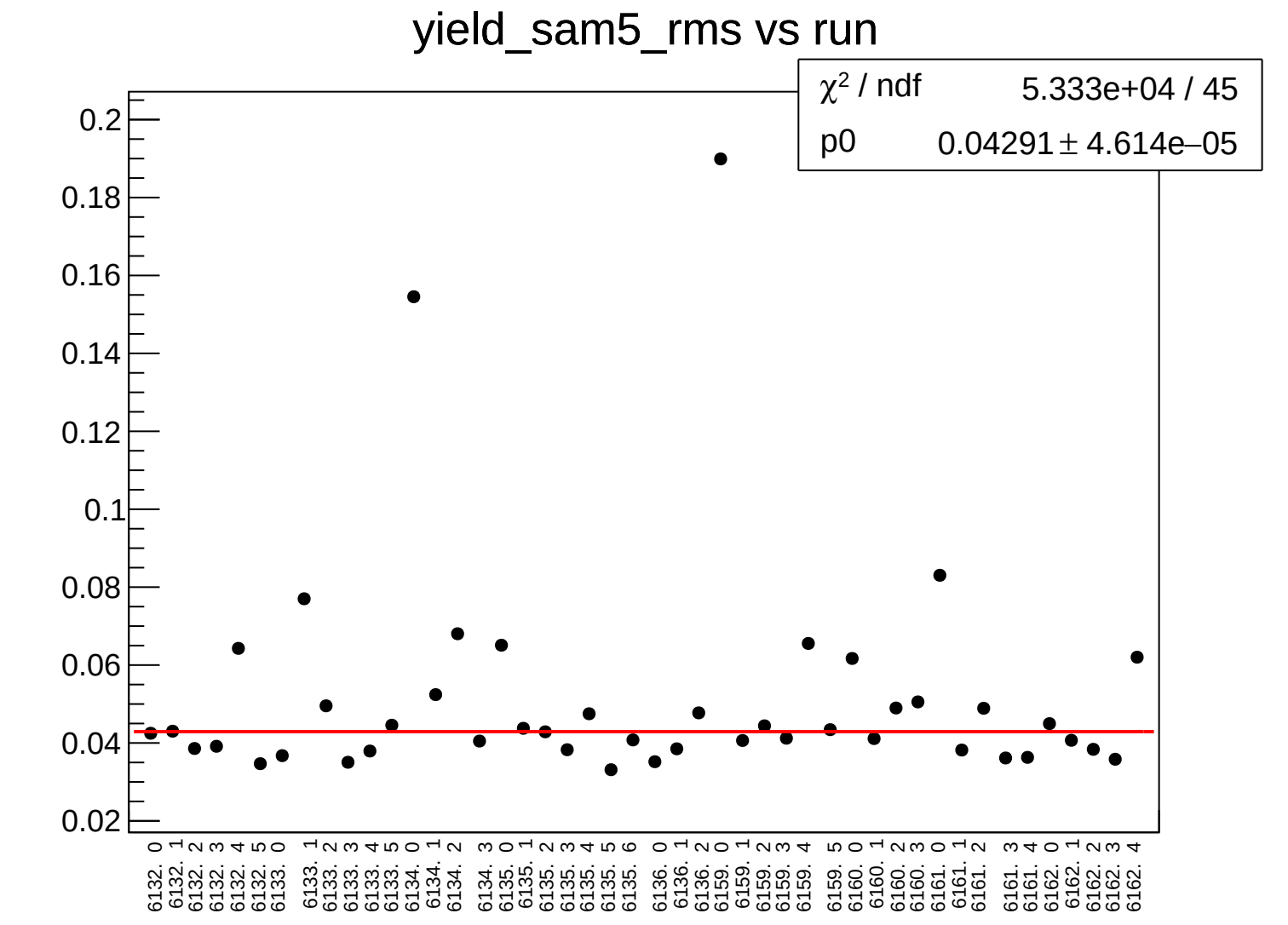

yield_sam4_mean vs run
χ² / ndf 4.267e+05 / 45
p0 13.93 ± 0.0001287
14.4
14.3
14.2
14.1
14
13.9
13.8
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −278.6
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

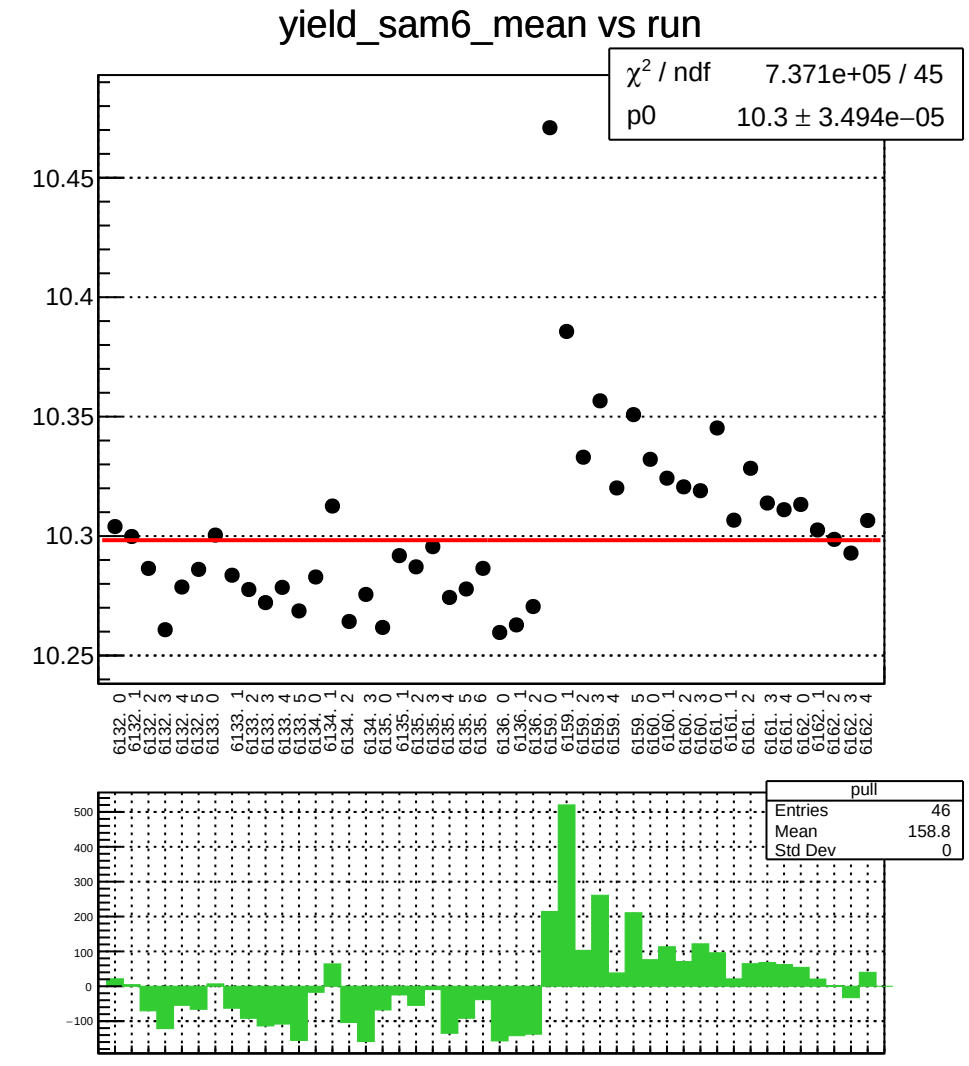

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

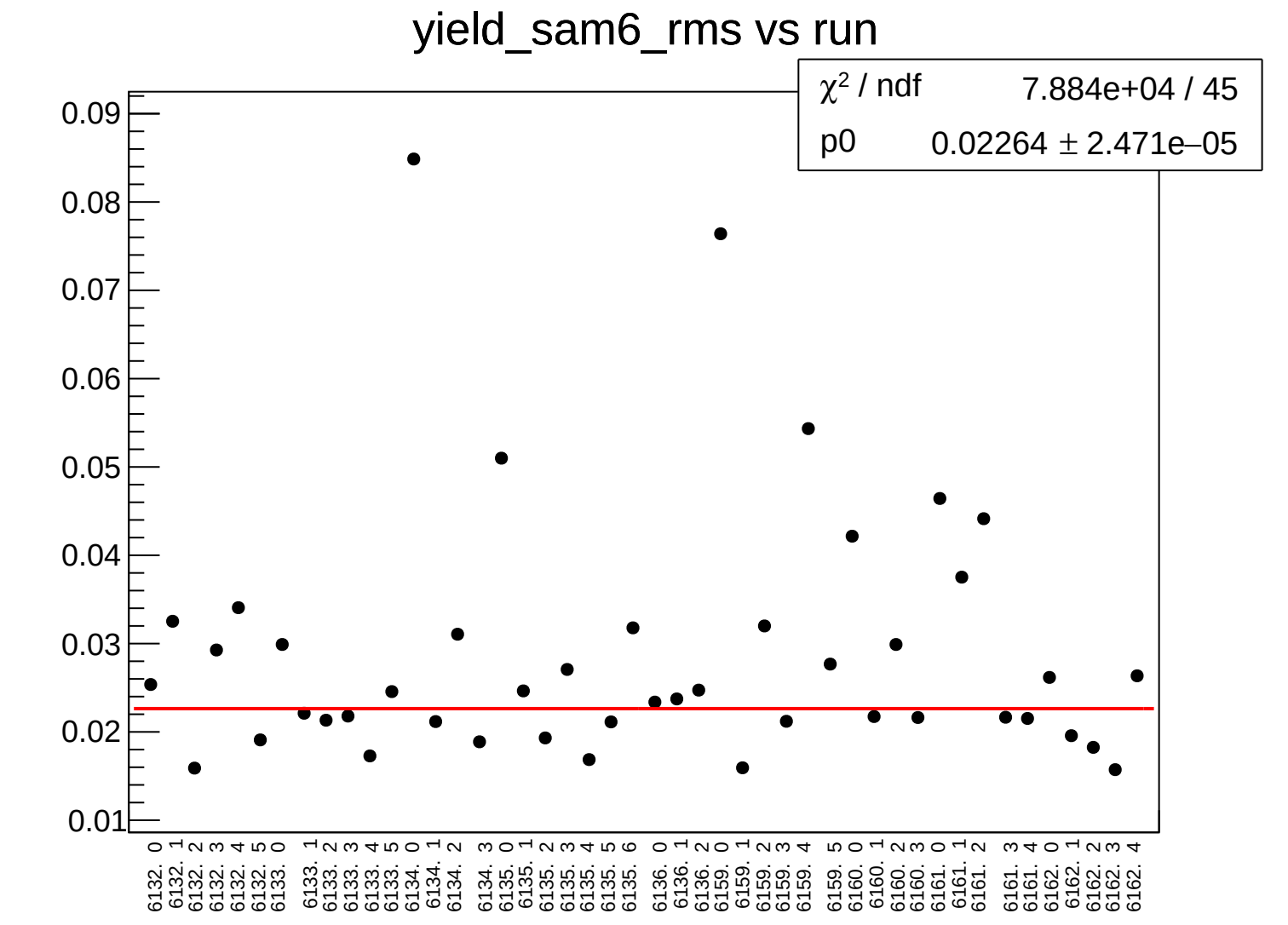

yield_sam4_rms vs run
χ² / ndf 9.161e+04 / 45
p0 0.08274 ± 9.101e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

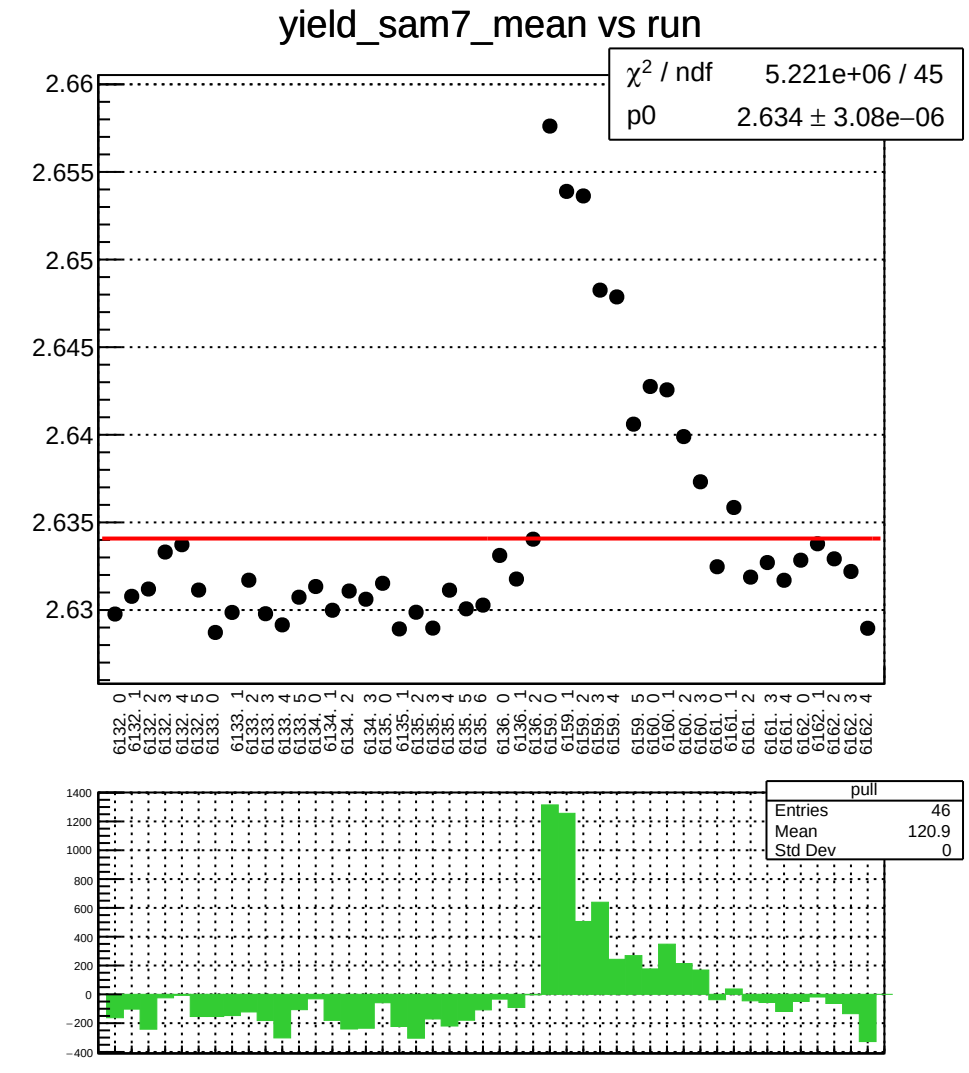

yield_sam5_mean vs run
χ² / ndf 1.23e+06 / 45
p0 18.84 ± 6.526e−05
19.3
19.2
19.1
19
18.9
18.8
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 177.6
Std Dev 0
400
300
200
100
0
−100
−200

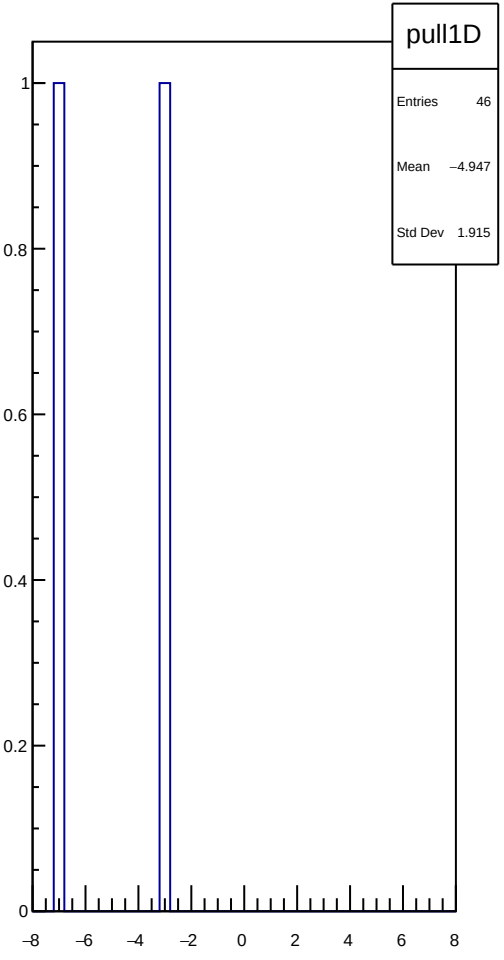

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

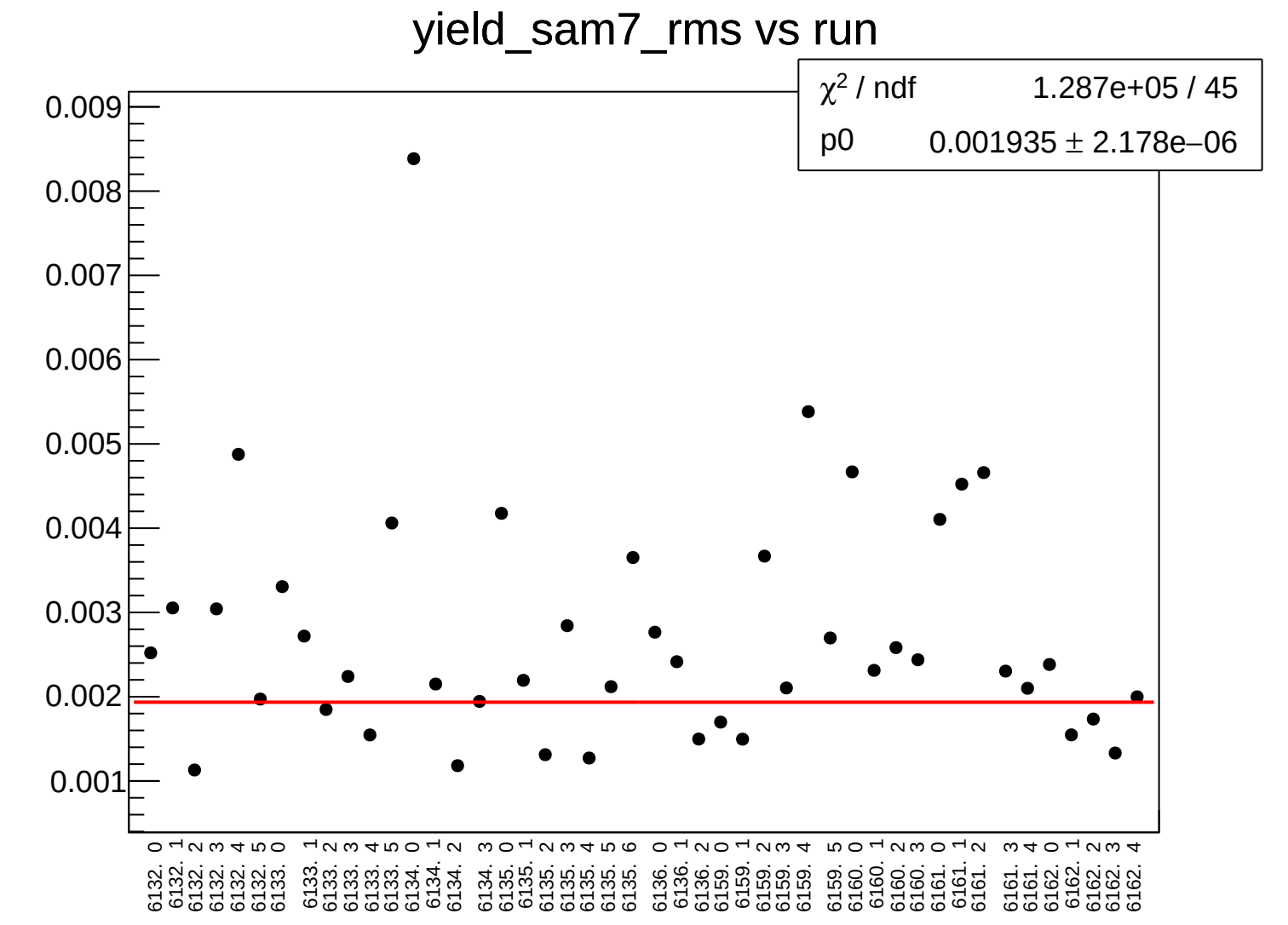

yield_sam5_rms vs run
χ² / ndf 5.333e+04 / 45
p0 0.04291 ± 4.614e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

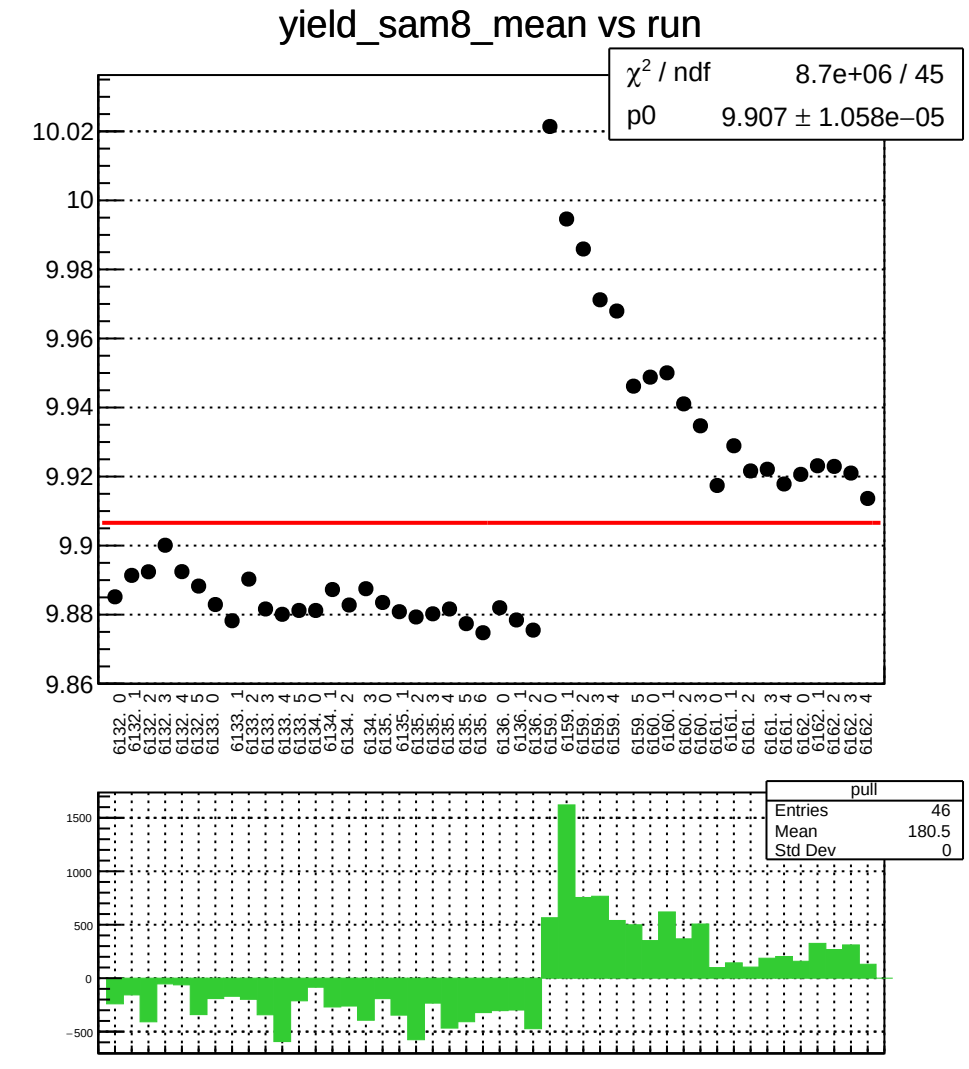

yield_sam6_mean vs run
χ² / ndf 7.371e+05 / 45
p0 10.3 ± 3.494e−05
10.45
10.4
10.35
10.3
10.25
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 158.8
Std Dev 0
500
400
300
200
100
0
−100
pull1D
Entries 46
Mean 4.384
Std Dev 2.038
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

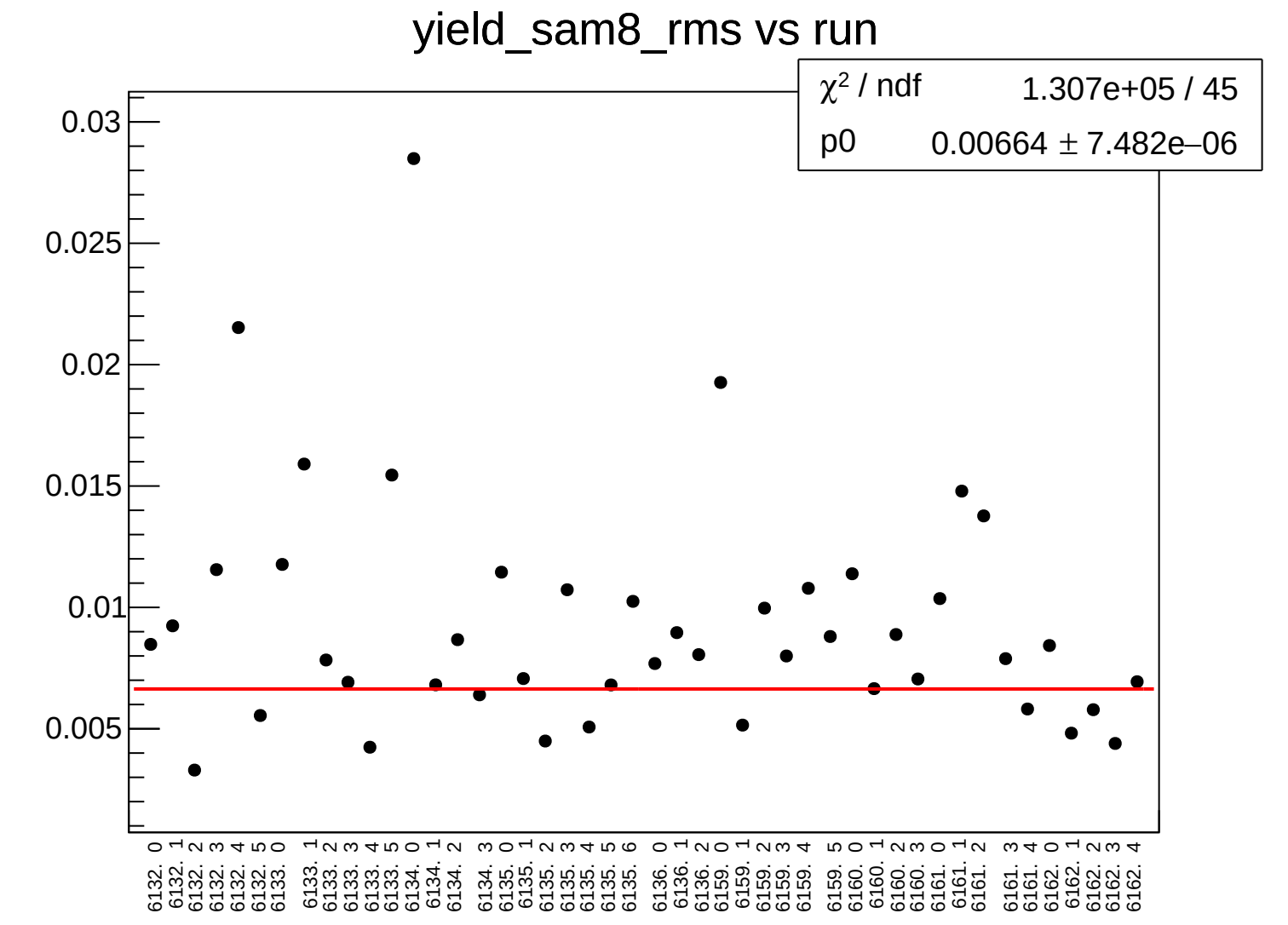

yield_sam6_rms vs run
χ² / ndf 7.884e+04 / 45
p0 0.02264 ± 2.471e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

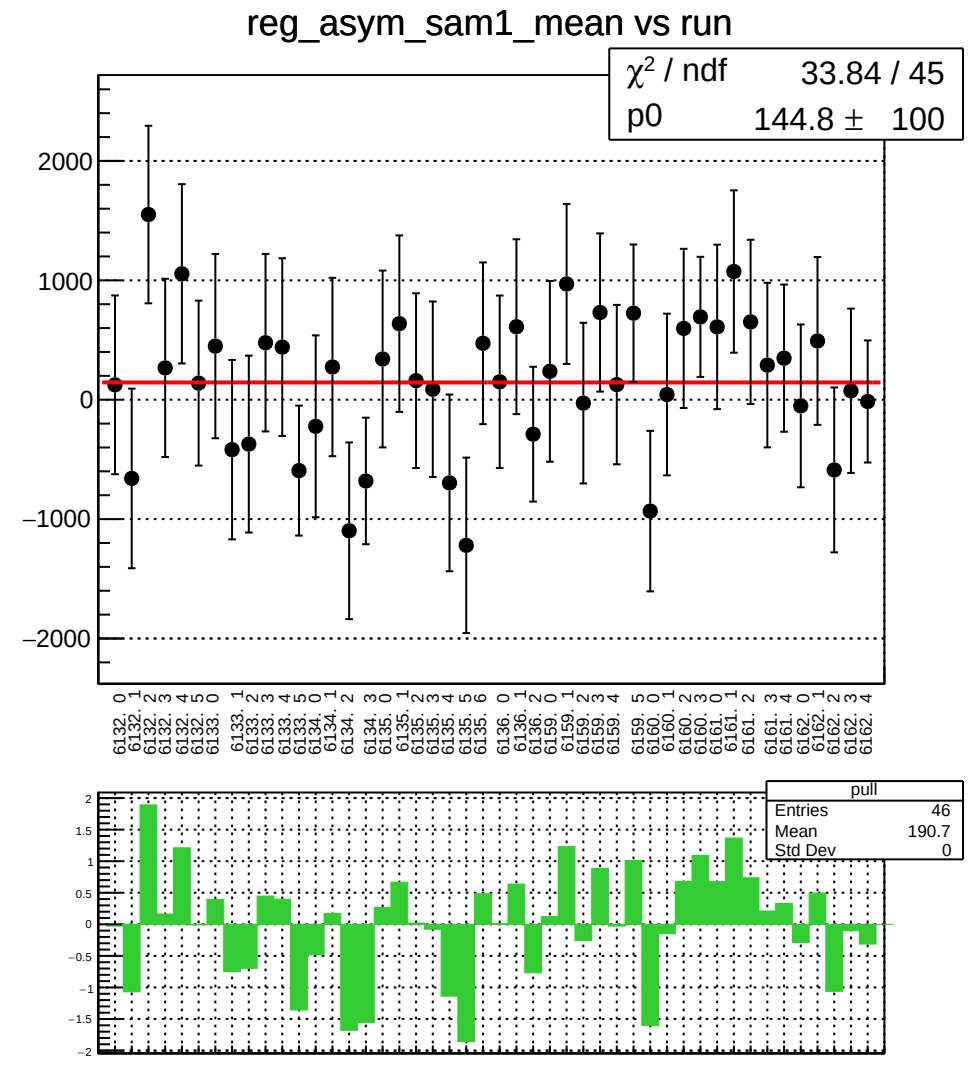

yield_sam7_mean vs run
χ² / ndf 5.221e+06 / 45
p0 2.634 ± 3.08e−06
2.66
2.655
2.65
2.645
2.64
2.635
2.63
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 120.9
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200
−400

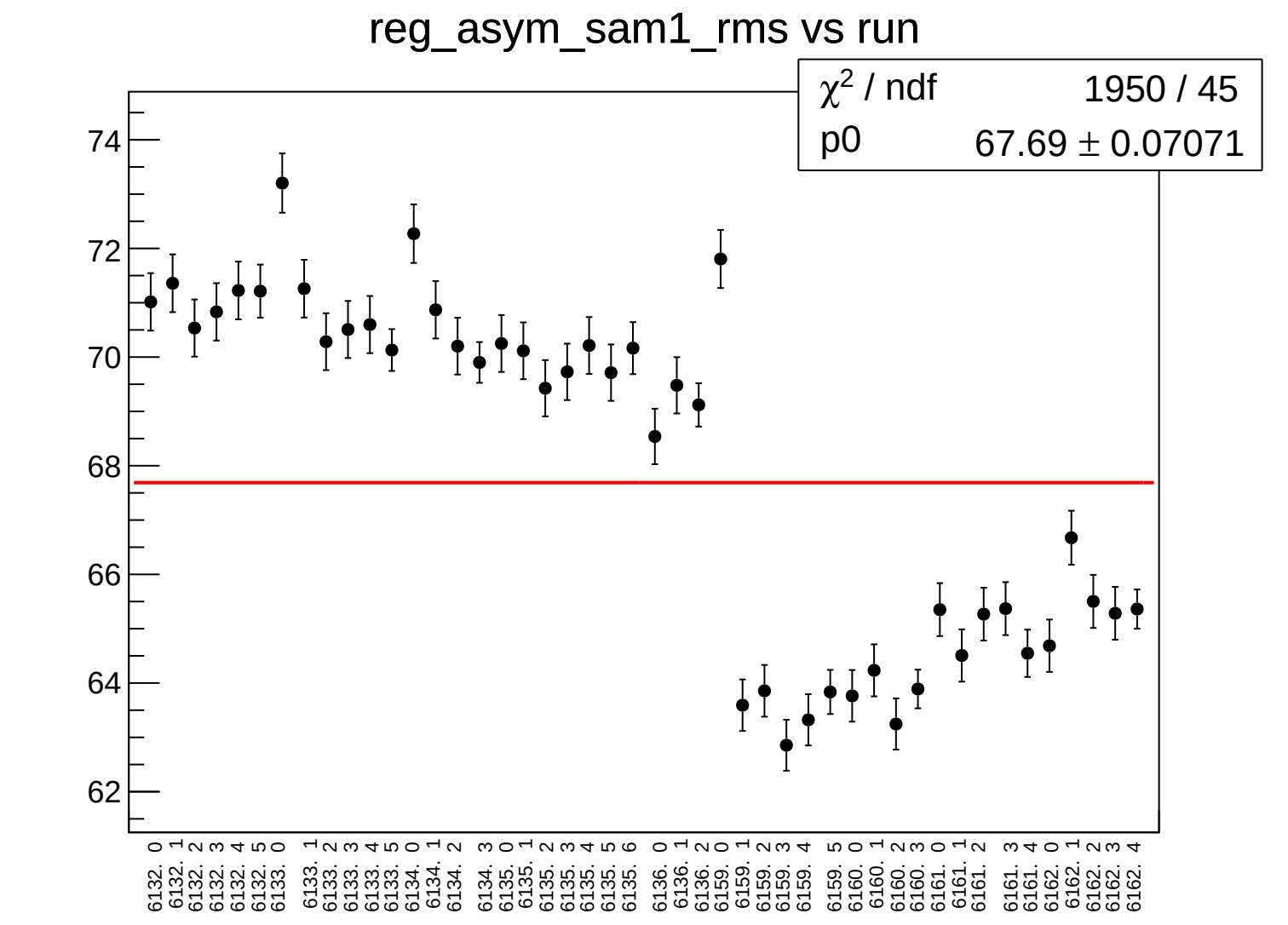

pull1D
Entries 46
Mean −4.947
Std Dev 1.915
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_sam7_rms vs run
χ² / ndf 1.287e+05 / 45
p0 0.001935 ± 2.178e−06
0.009
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
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


yield_sam8_mean vs run
χ² / ndf 8.7e+06 / 45
p0 9.907 ± 1.058e−05
10.02
10
9.98
9.96
9.94
9.92
9.9
9.88
9.86
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 180.5
Std Dev 0
1500
1000
500
0
−500
pull1D
Entries 46
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 1.307e+05 / 45
p0 0.00664 ± 7.482e–06
0.03
0.025
0.02
0.015
0.01
0.005
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_sam1_mean vs run
χ² / ndf 33.84 / 45
p0 144.8 ± 100
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 190.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.007002
Std Dev 0.8577
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam1_rms vs run
χ² / ndf 1950 / 45
p0 67.69 ± 0.07071
74
72
70
68
66
64
62
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6134. 1
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6135. 1
6135. 2
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6159. 1
6159. 2
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6160. 0
6160. 1
6160. 2
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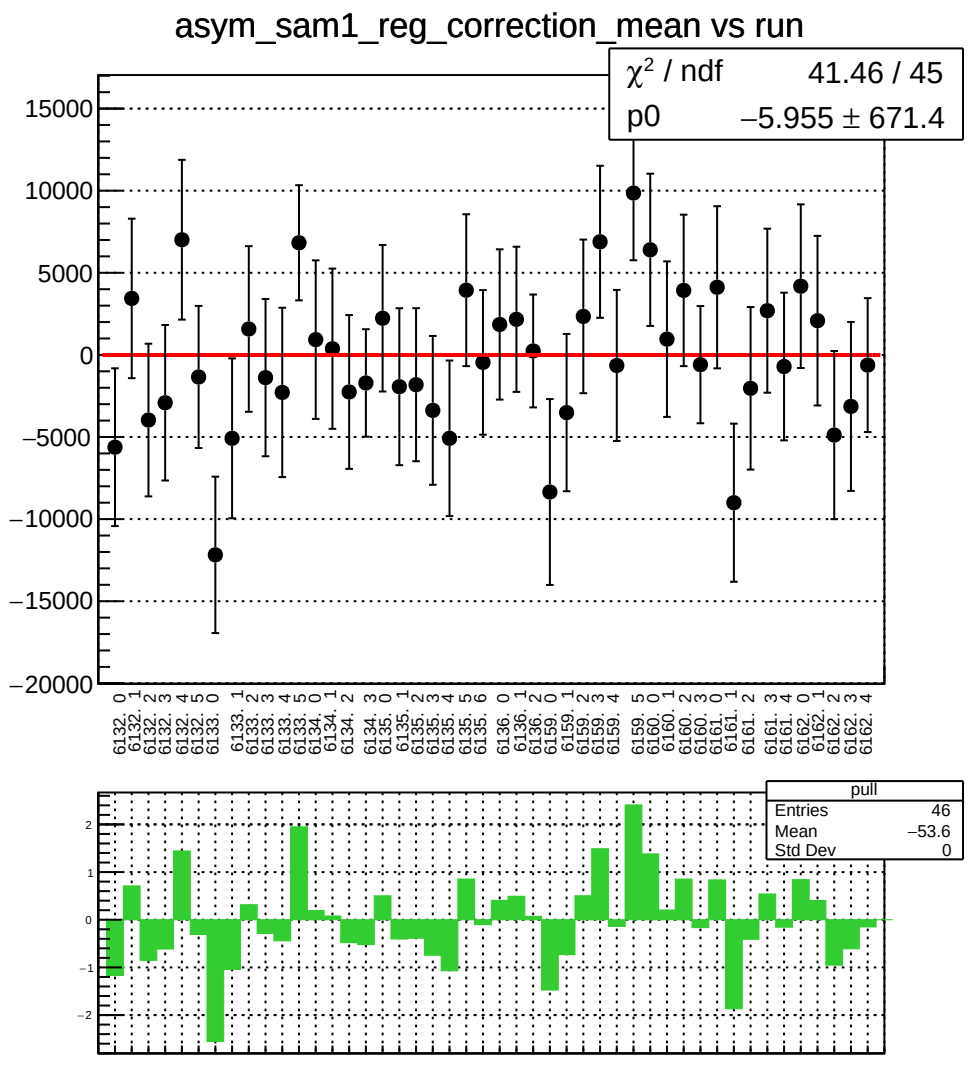
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam1_reg_correction_mean vs run
χ² / ndf 41.46 / 45
p0 −5.955 ± 671.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
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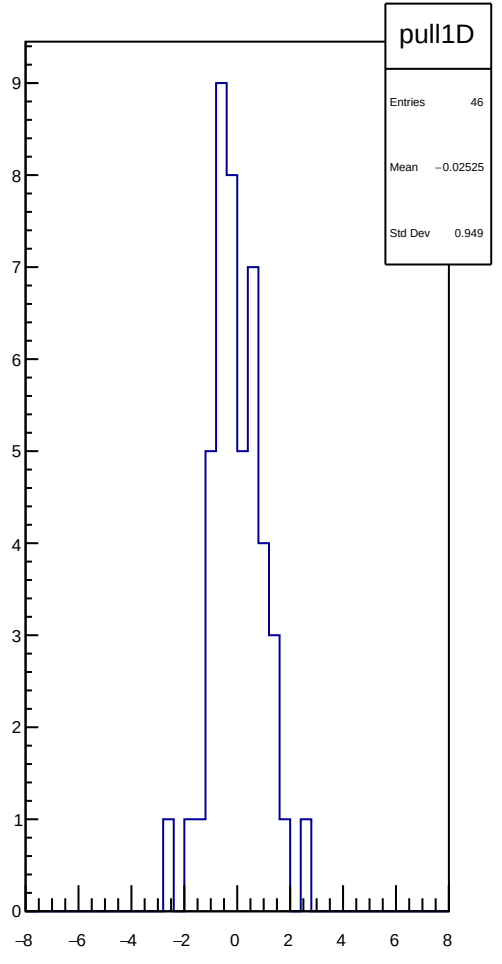
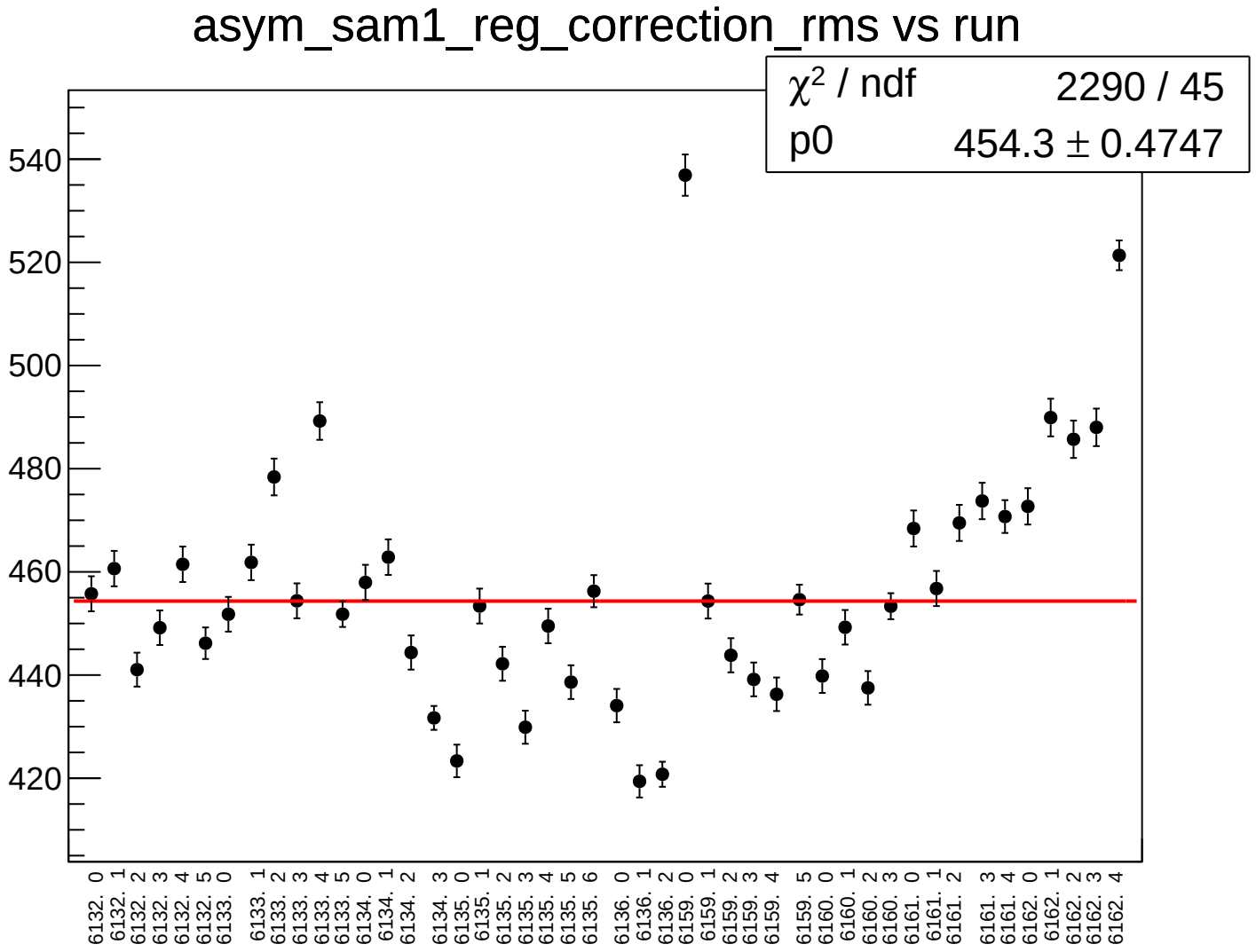
6162. 3
6162. 4
pull
Entries 46
Mean −53.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.02525
Std Dev 0.949
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_reg_correction_rms vs run
χ² / ndf 2290 / 45
p0 454.3 ± 0.4747
540
520
500
480
460
440
420
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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6161. 4
6162. 0
6162. 1
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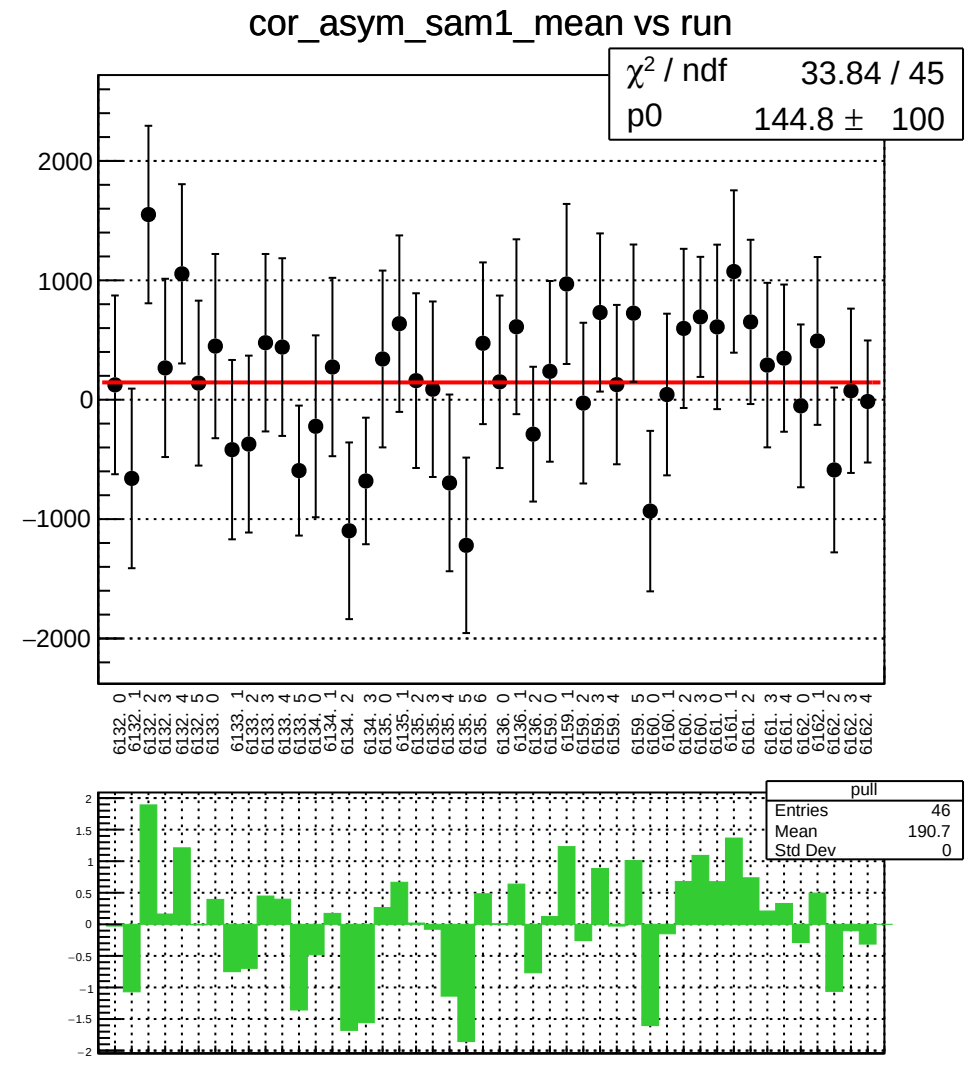
6162. 3
6162. 4


cor_asym_sam1_mean vs run
χ² / ndf 33.84 / 45
p0 144.8 ± 100
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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
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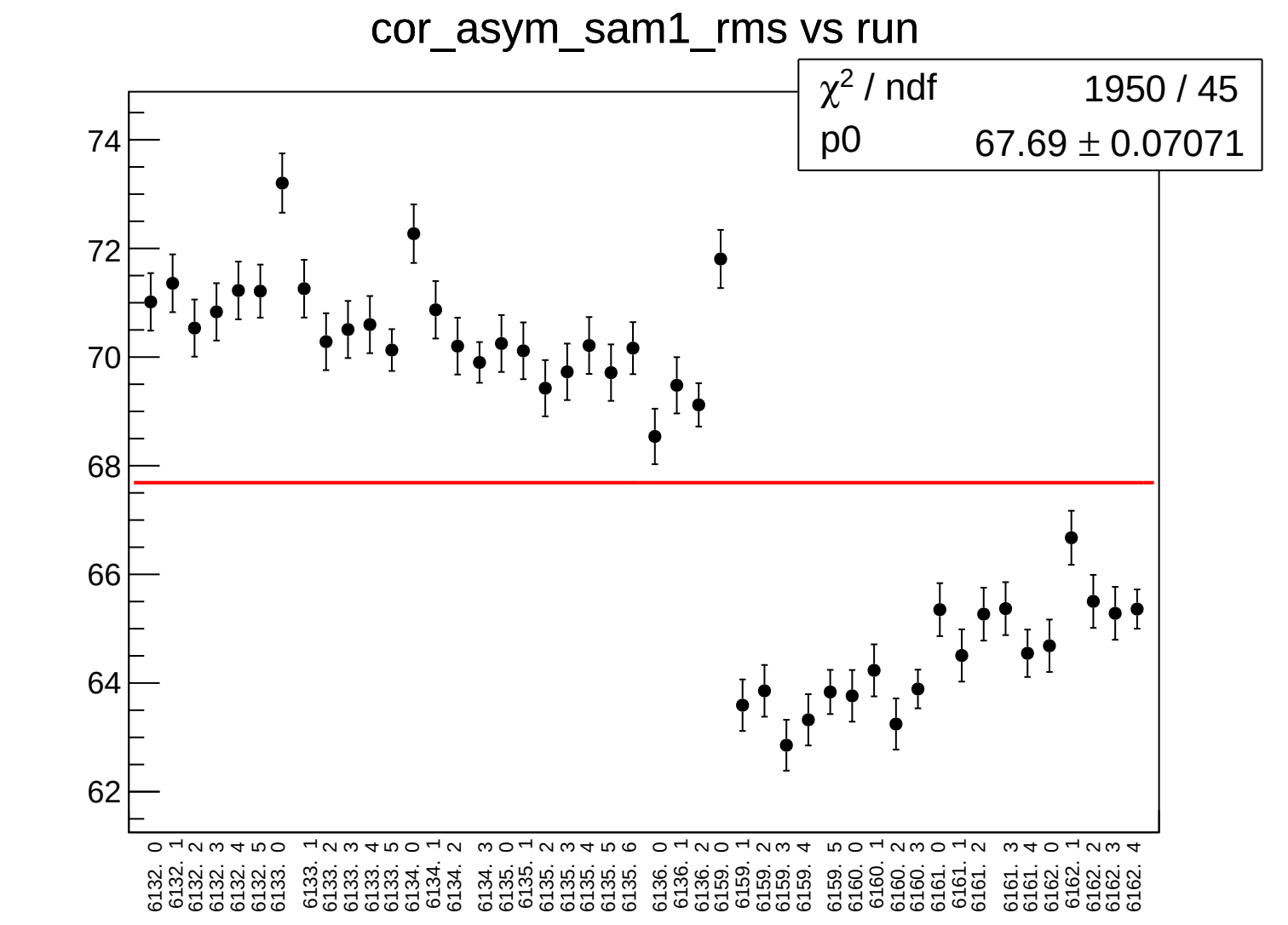
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 190.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.007002
Std Dev 0.8576
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam1_rms vs run
χ² / ndf 1950 / 45
p0 67.69 ± 0.07071
74
72
70
68
66
64
62
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 2
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6133. 4
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6134. 2
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6135. 5
6135. 6
6136. 0
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6136. 2
6159. 0
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6159. 2
6159. 3
6159. 4
6159. 5
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6160. 1
6160. 2
6160. 3
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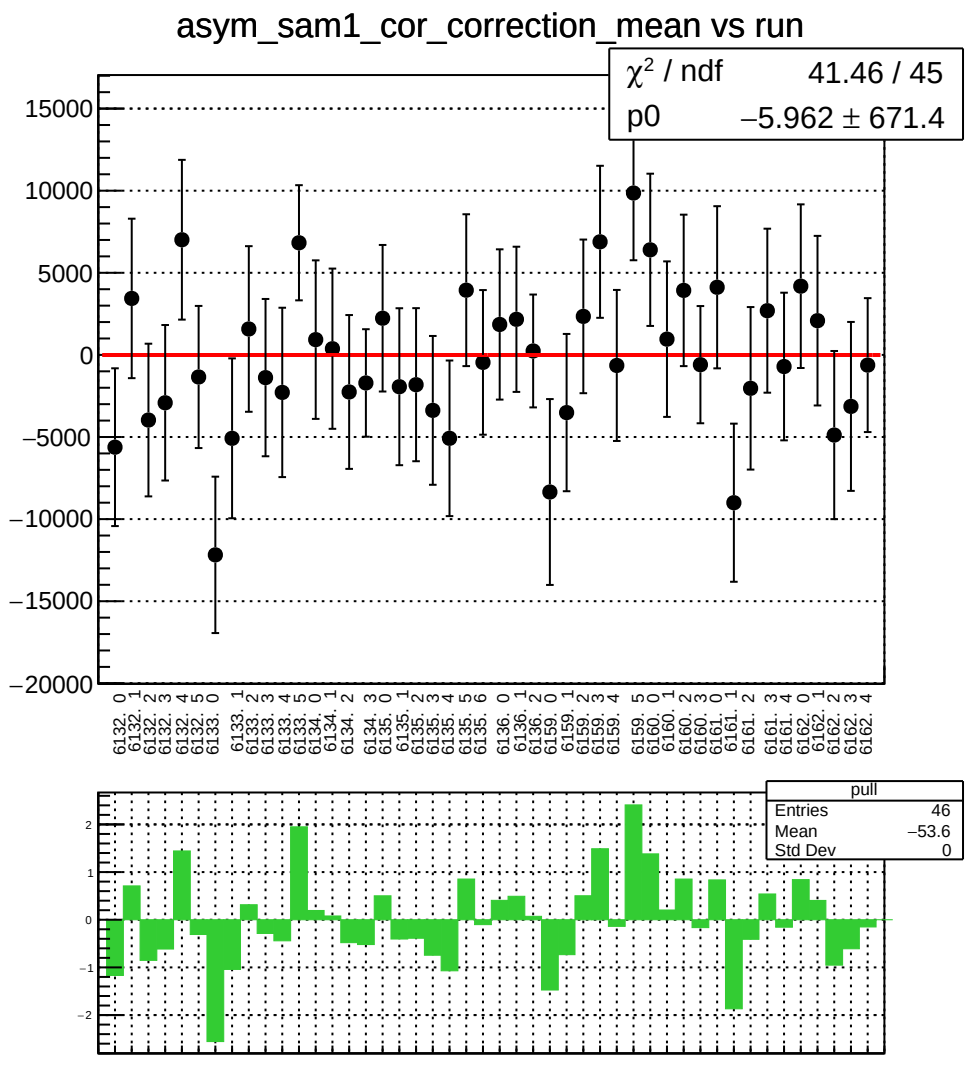
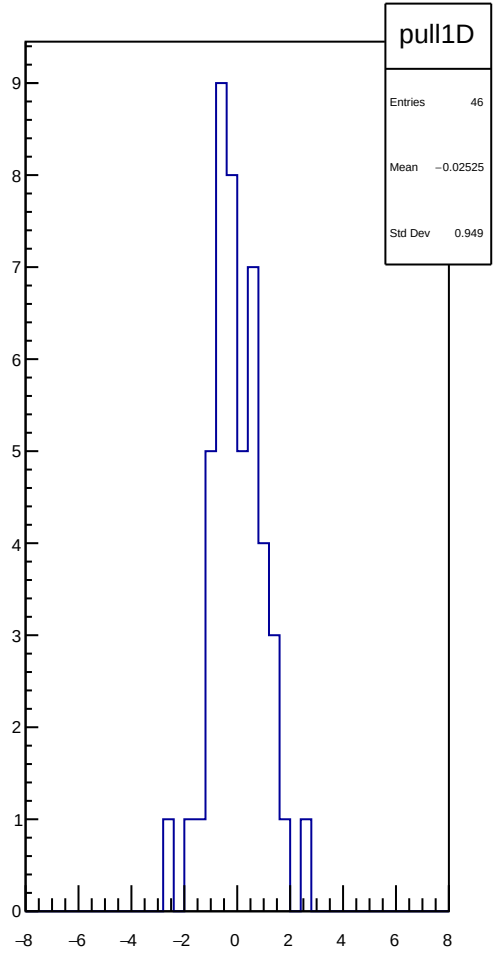
6162. 3
6162. 4


asym_sam1_cor_correction_mean vs run
χ² / ndf 41.46 / 45
p0 −5.962 ± 671.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −53.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.02525
Std Dev 0.949
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5
4
3
2
1
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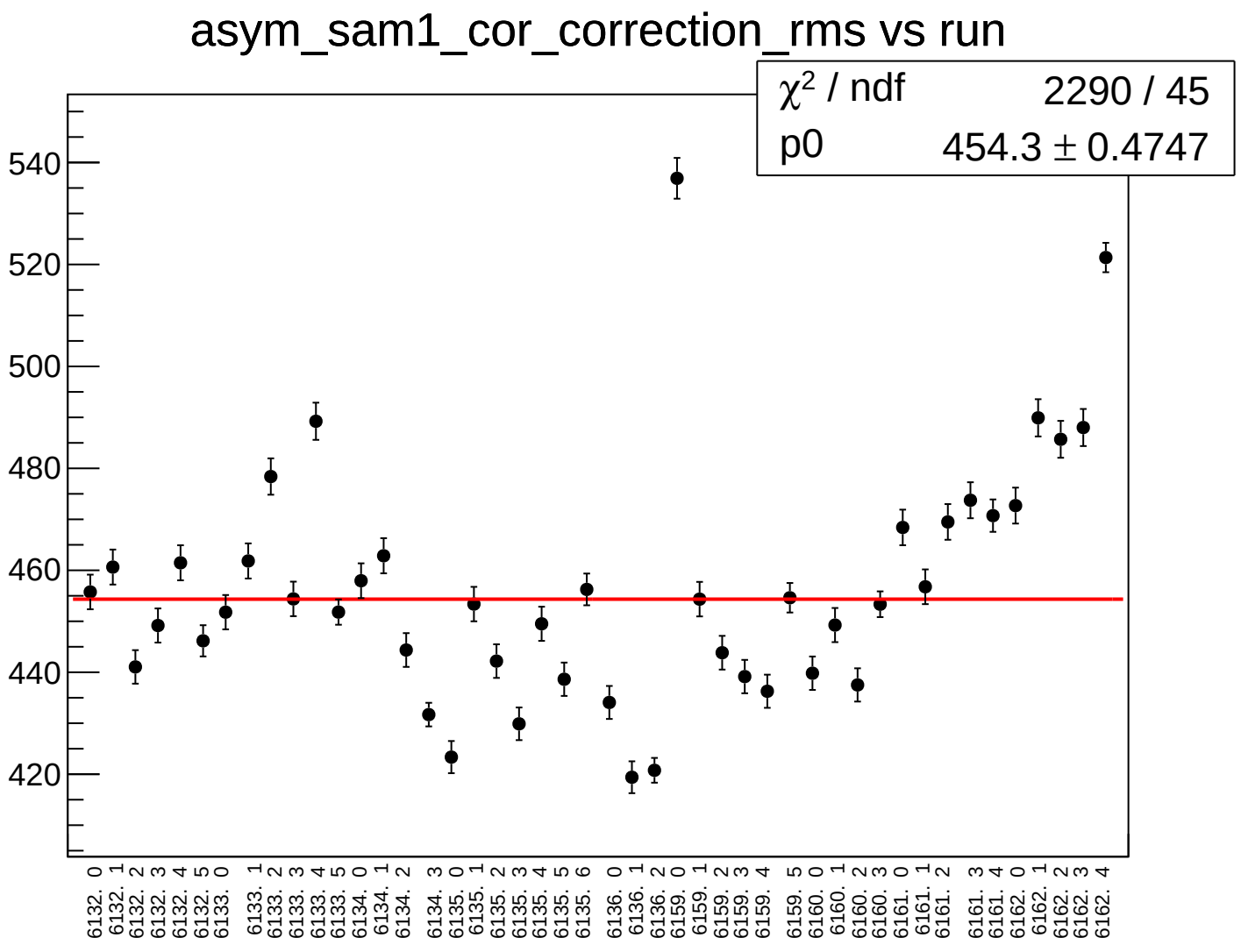
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_cor_correction_rms vs run
χ² / ndf 2290 / 45
p0 454.3 ± 0.4747
540
520
500
480
460
440
420
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
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6135. 3
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6135. 6
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6136. 2
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6159. 2
6159. 3
6159. 4
6159. 5
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6160. 1
6160. 2
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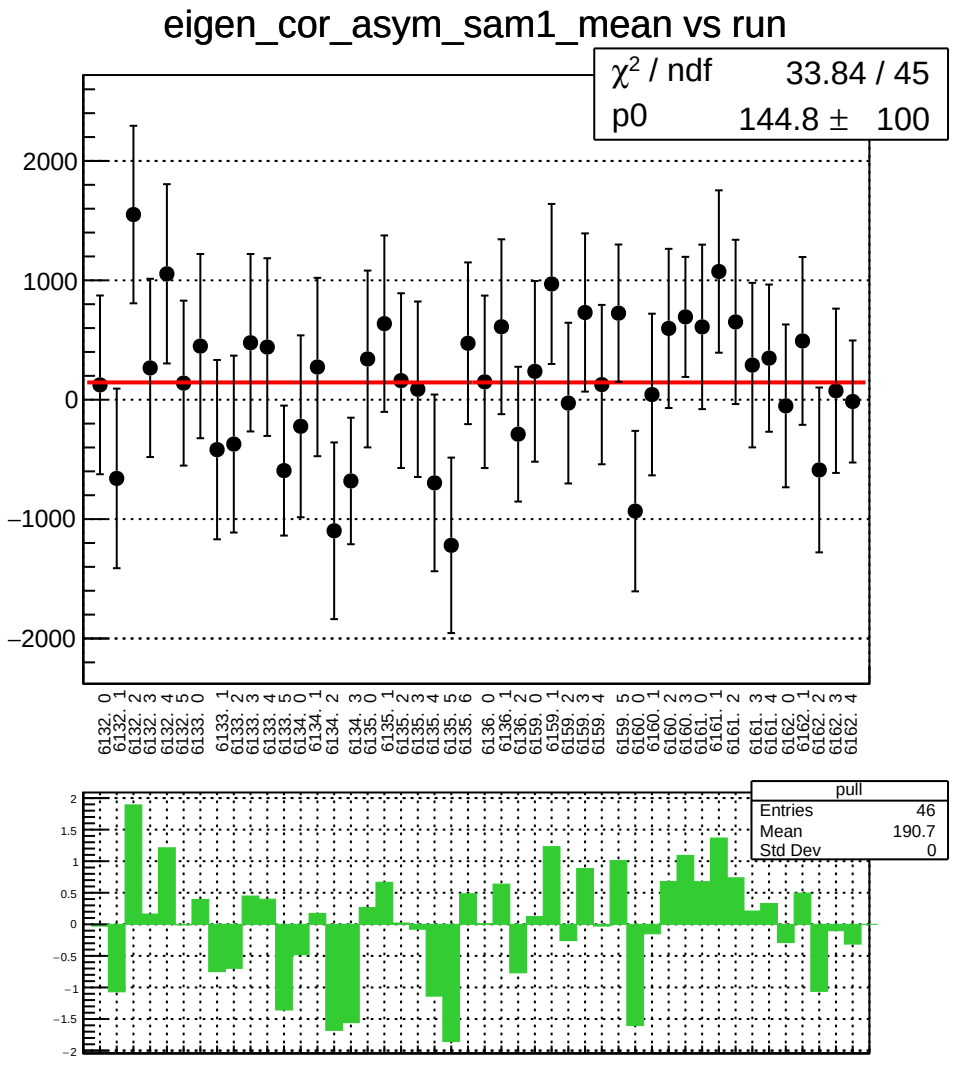
6162. 3
6162. 4


eigen_cor_asym_sam1_mean vs run
χ² / ndf 33.84 / 45
p0 144.8 ± 100
2000
1000
0
−1000
−2000
6132. 0
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6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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6135. 2
6135. 3
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6135. 5
6135. 6
6136. 0
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6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
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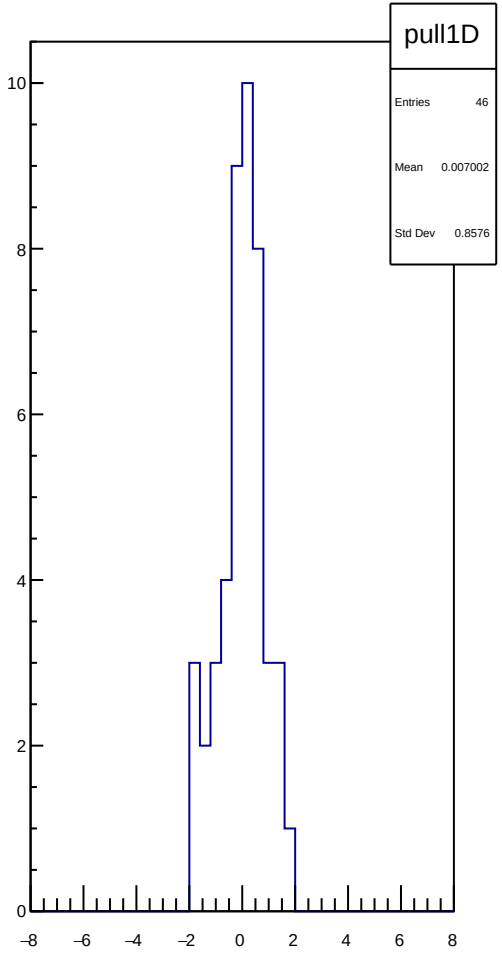
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 190.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.007002
Std Dev 0.8576
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8
6
4
2
0
−8
−6
−4
−2
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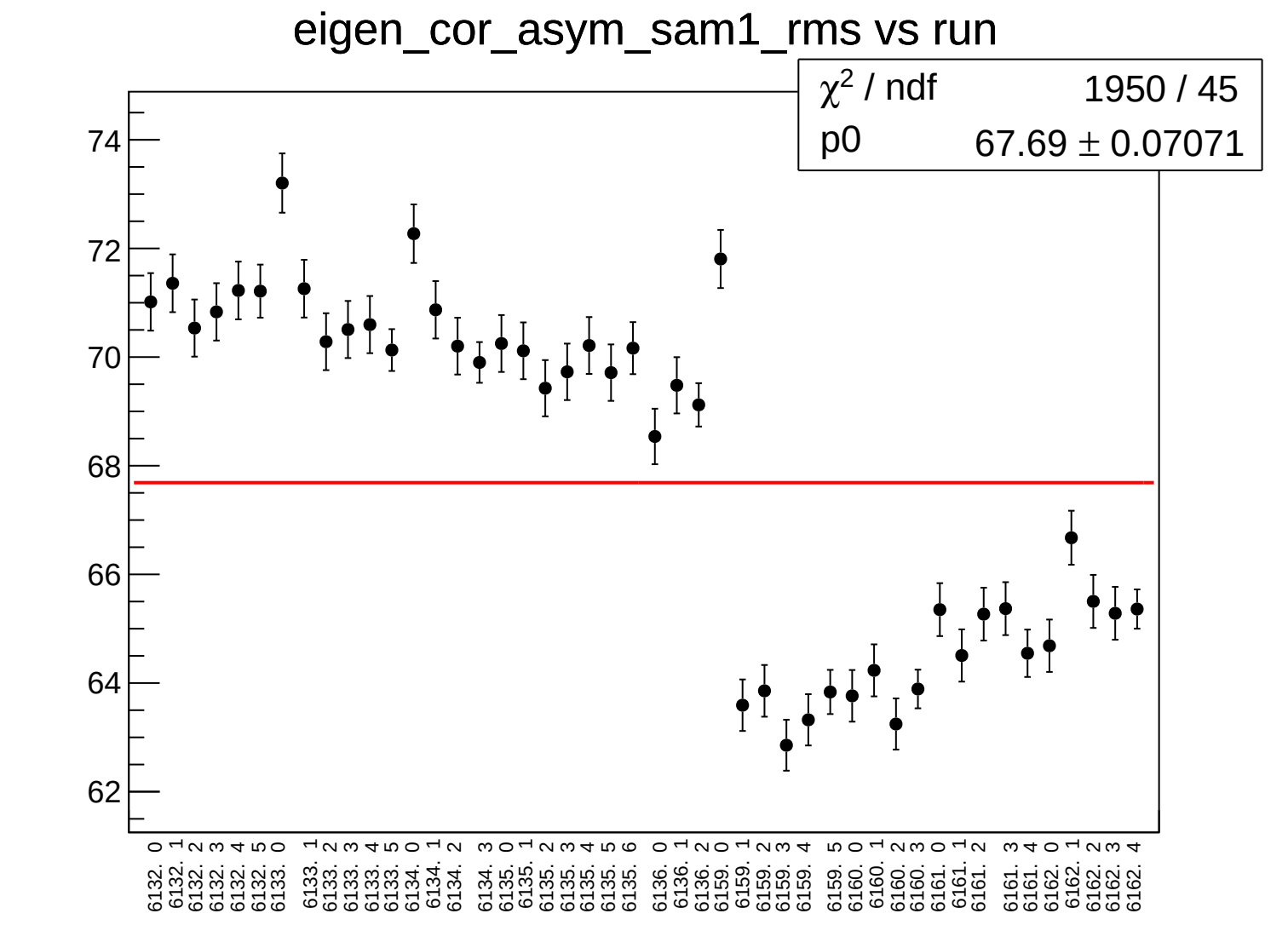
2
4
6
8


eigen_cor_asym_sam1_rms vs run
χ² / ndf 1950 / 45
p0 67.69 ± 0.07071
74
72
70
68
66
64
62
6132. 0
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6132. 2
6132. 3
6132. 4
6132. 5
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6133. 4
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6160. 1
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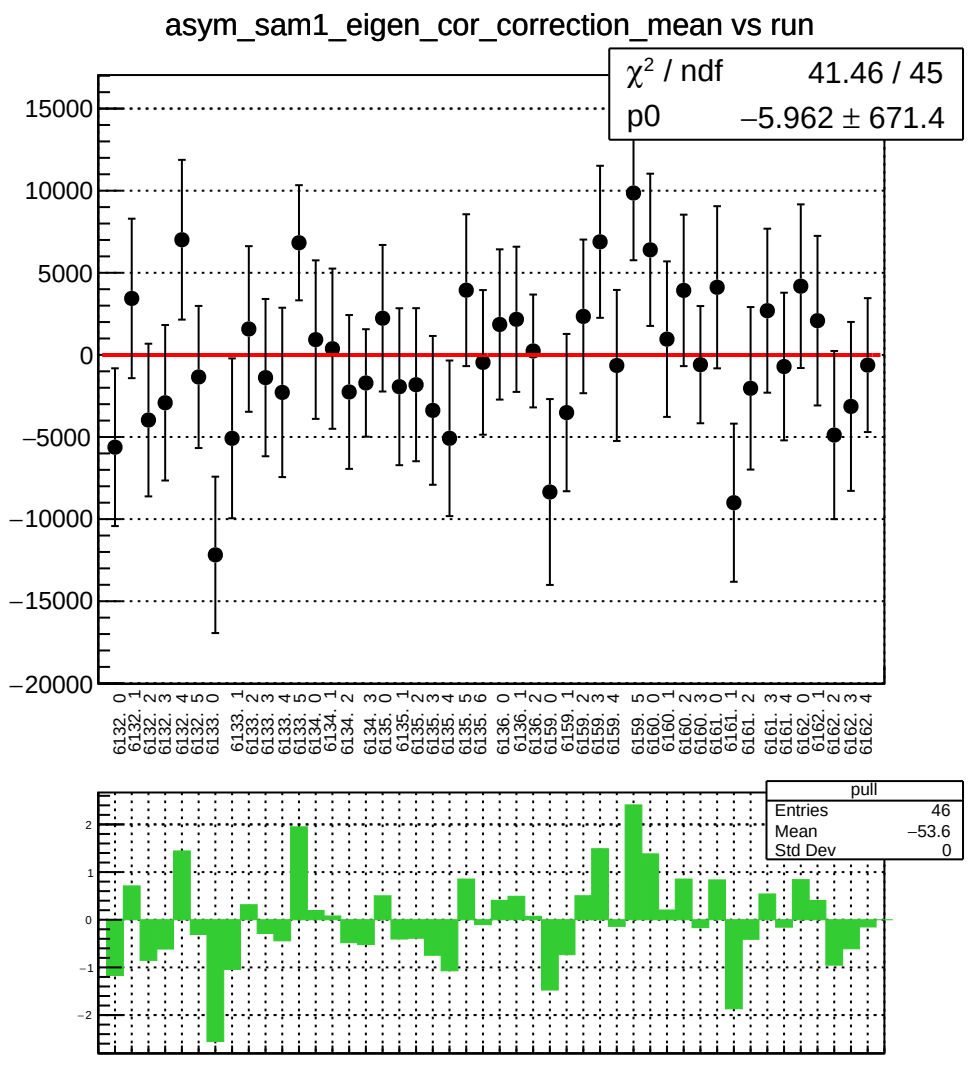
6162. 4


asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 41.46 / 45
p0 −5.962 ± 671.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6160. 2
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6161. 0
6161. 1
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6161. 4
6162. 0
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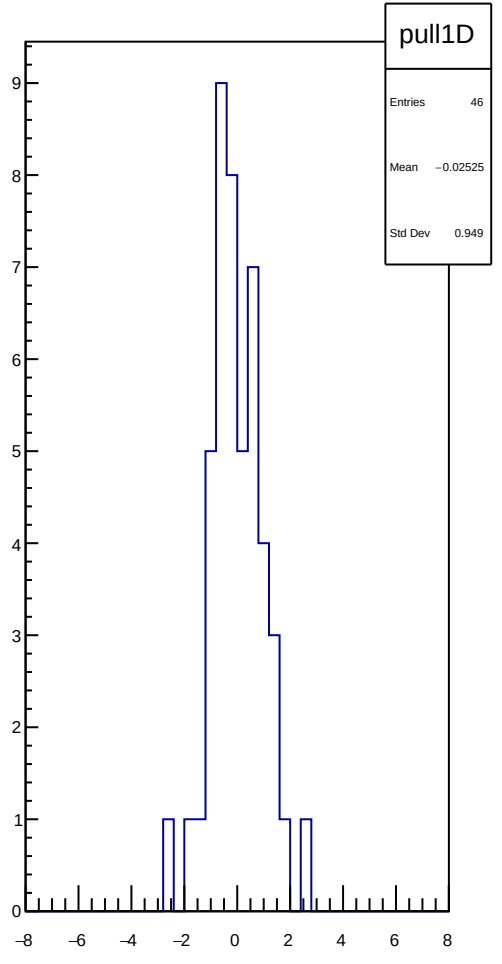
6162. 4
pull
Entries 46
Mean −53.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.02525
Std Dev 0.949
9
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−4
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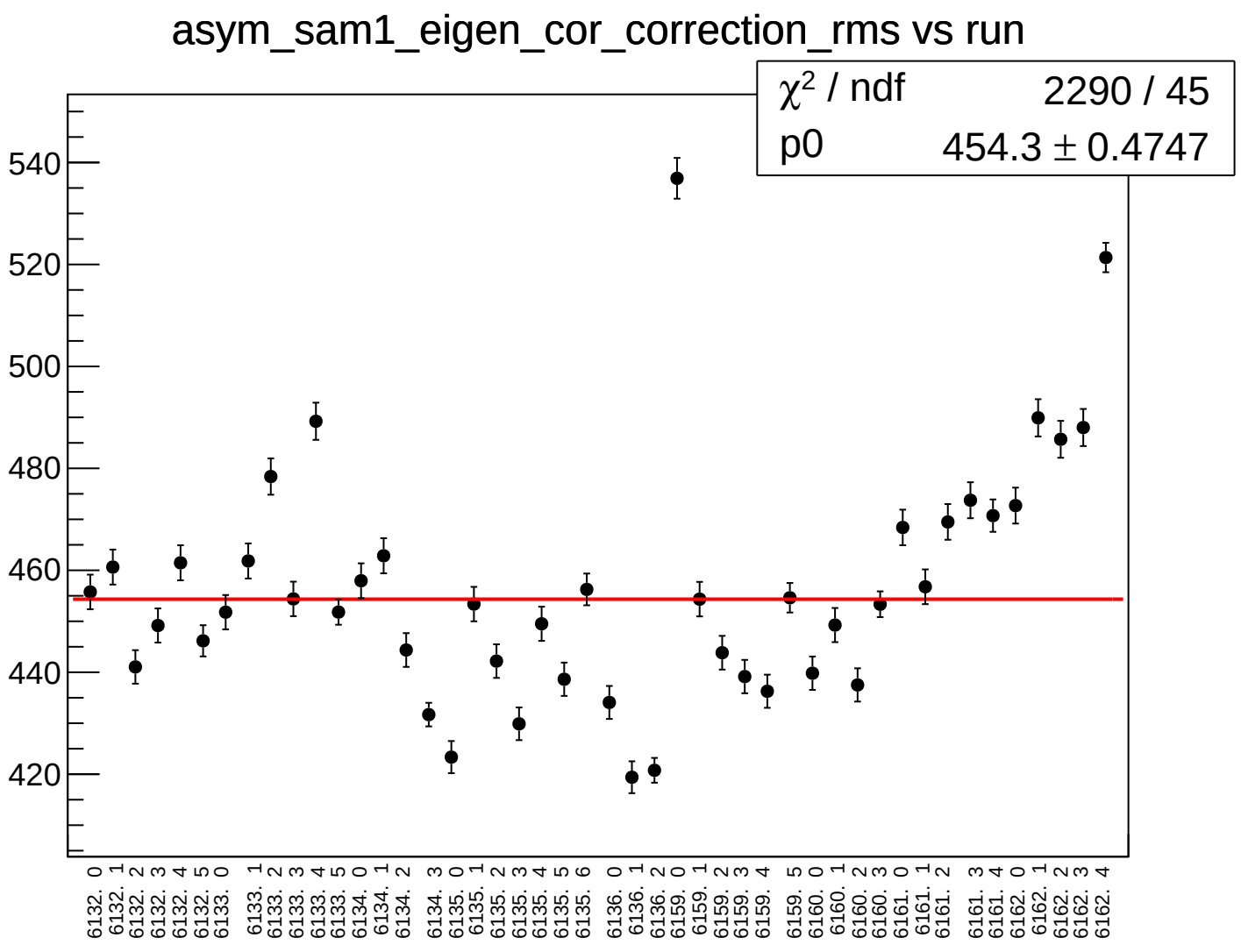
6
8


asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 2290 / 45
p0 454.3 ± 0.4747
540
520
500
480
460
440
420
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 1
6134. 2
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6159. 5
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6160. 1
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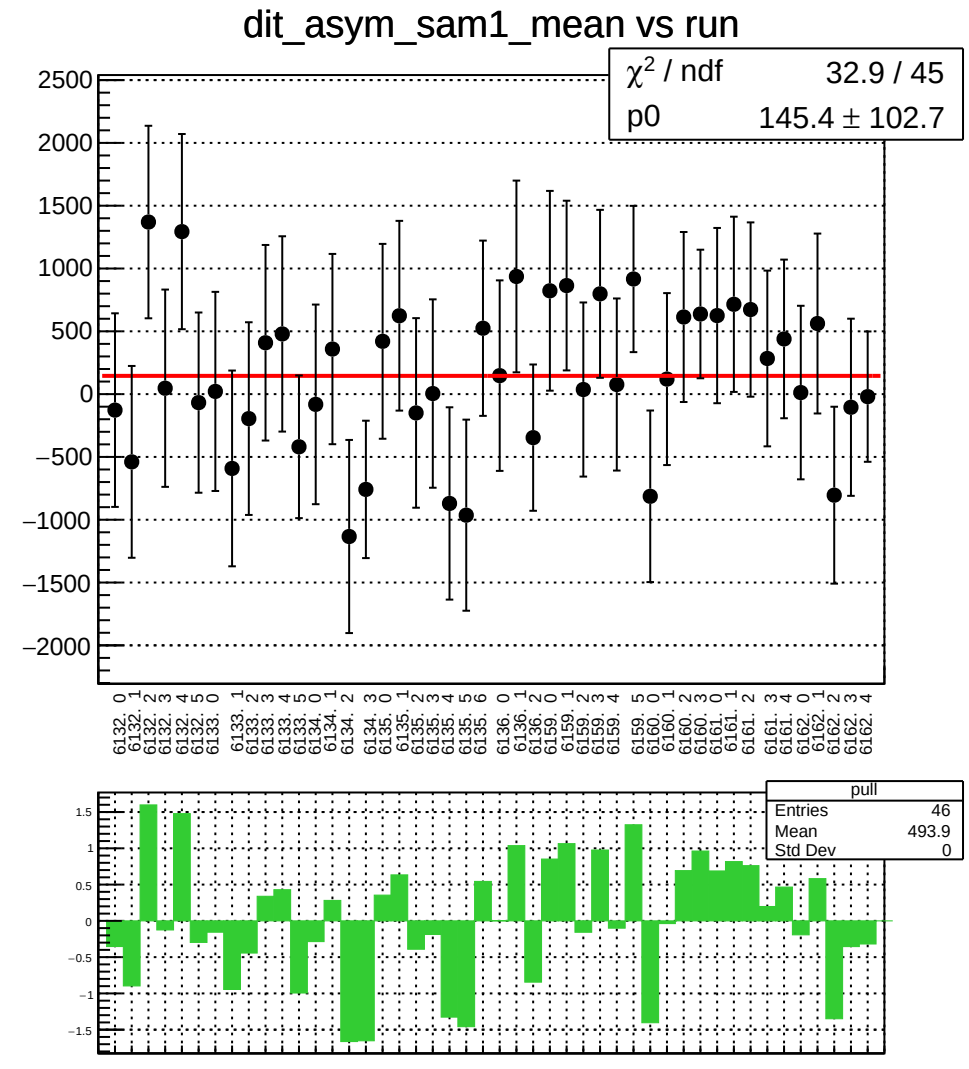
6162. 4


dit_asym_sam1_mean vs run
χ² / ndf 32.9 / 45
p0 145.4 ± 102.7
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6161. 0
6161. 1
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6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
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6162. 4
pull
Entries 46
Mean 493.9
Std Dev 0
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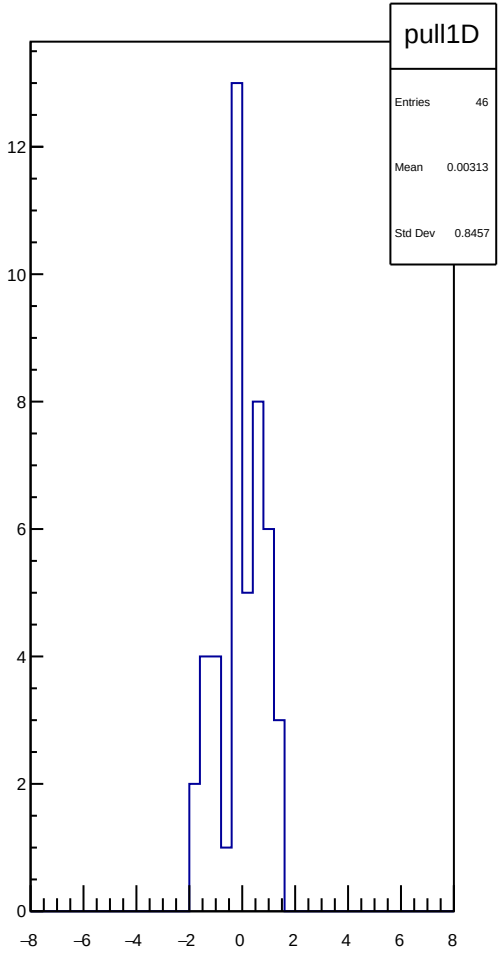
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 46
Mean 0.00313
Std Dev 0.8457
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10
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6
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−4
−2
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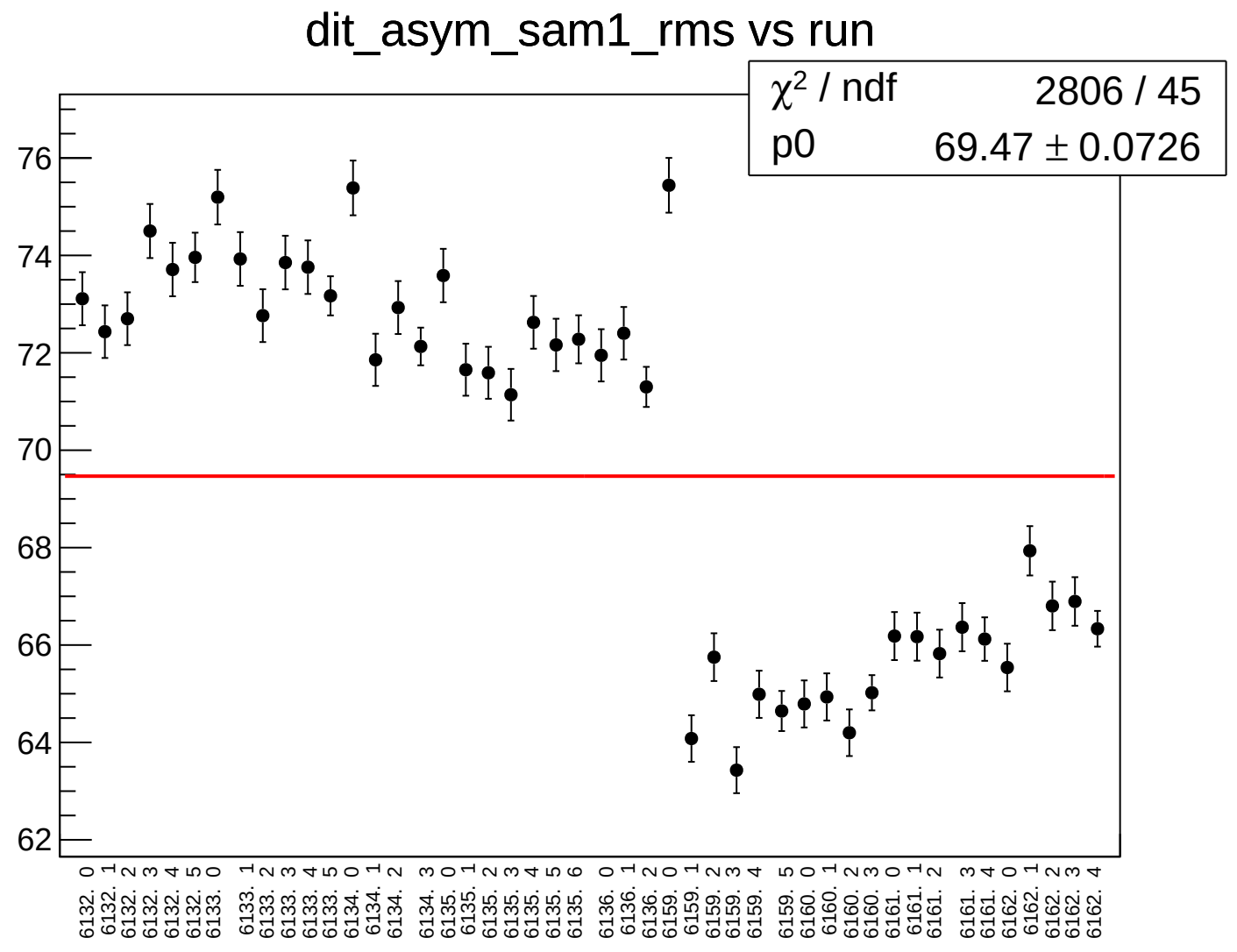
2
4
6
8


dit_asym_sam1_rms vs run
χ² / ndf 2806 / 45
p0 69.47 ± 0.0726
76
74
72
70
68
66
64
62
6132. 0
6132. 1
6132. 2
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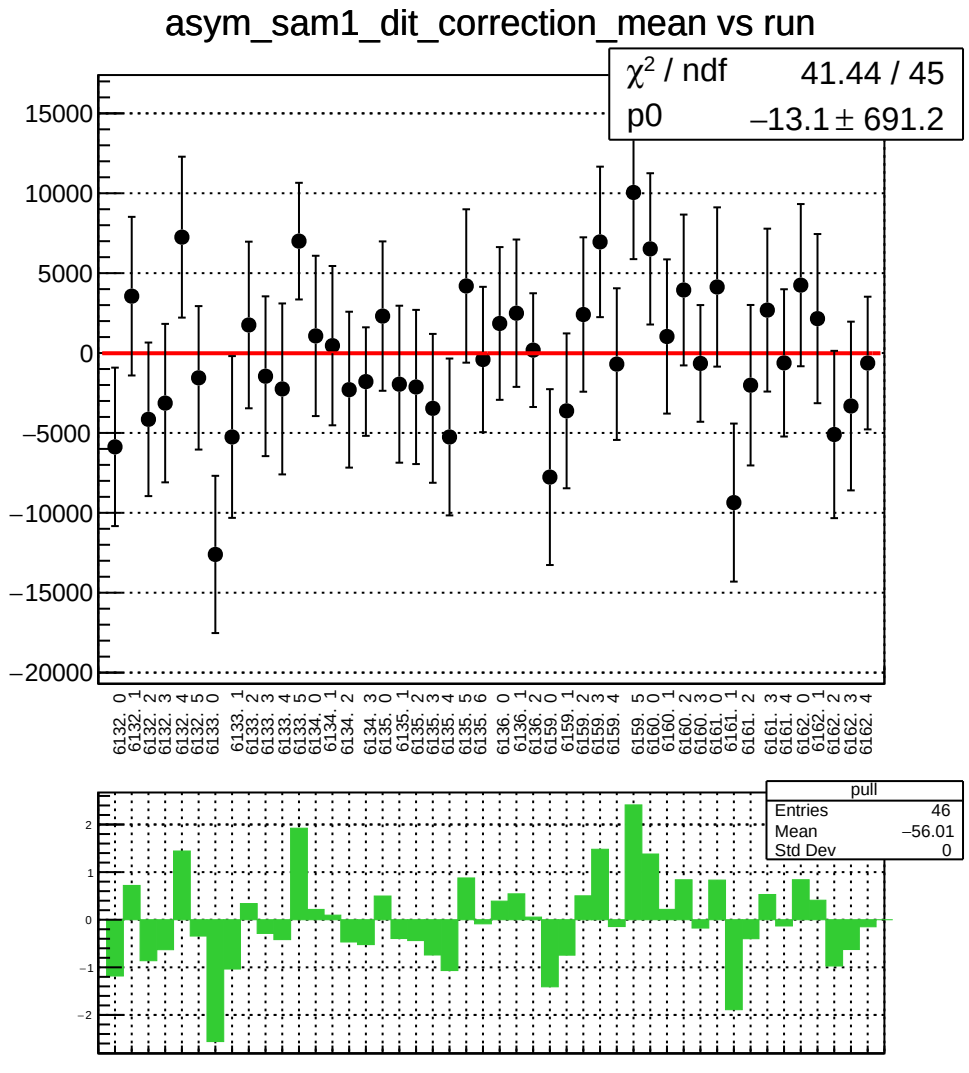
asym_sam1_dit_correction_mean vs run
χ² / ndf 41.44 / 45
p0 −13.1 ± 691.2
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10000
5000
0
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−10000
−15000
−20000
6132. 0
6132. 1
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6132. 4
6132. 5
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6160. 1
6160. 2
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6161. 0
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6161. 4
6162. 0
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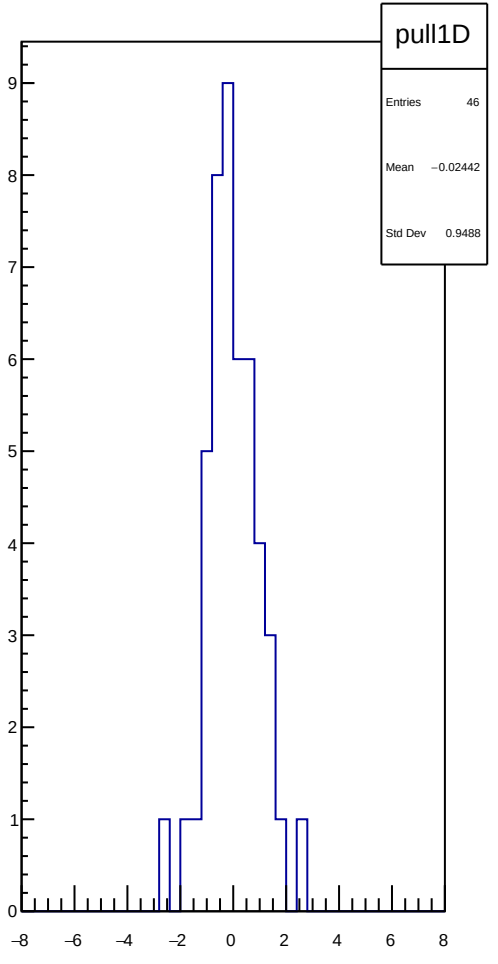
6162. 4
pull
Entries 46
Mean −56.01
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.02442
Std Dev 0.9488
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−4
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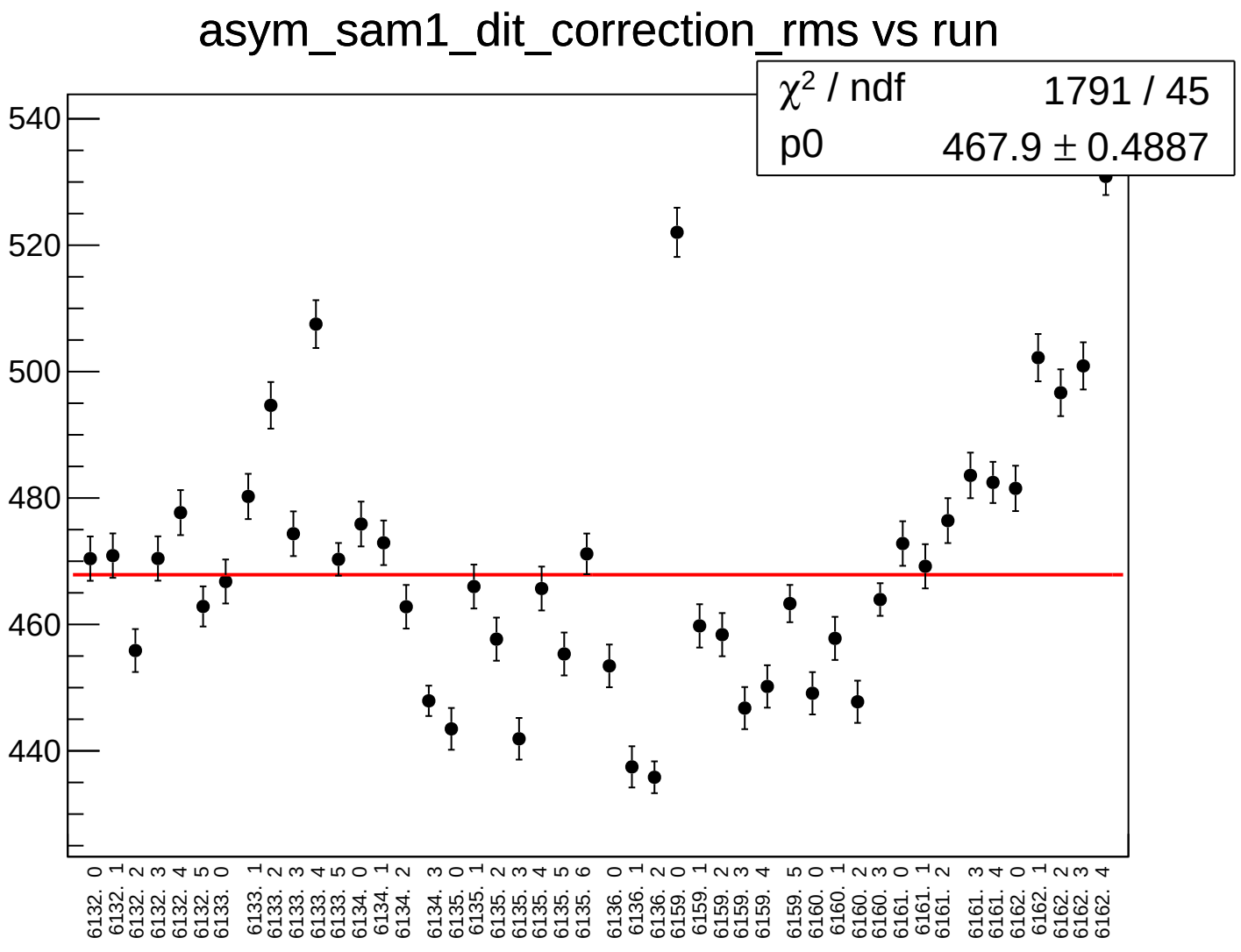
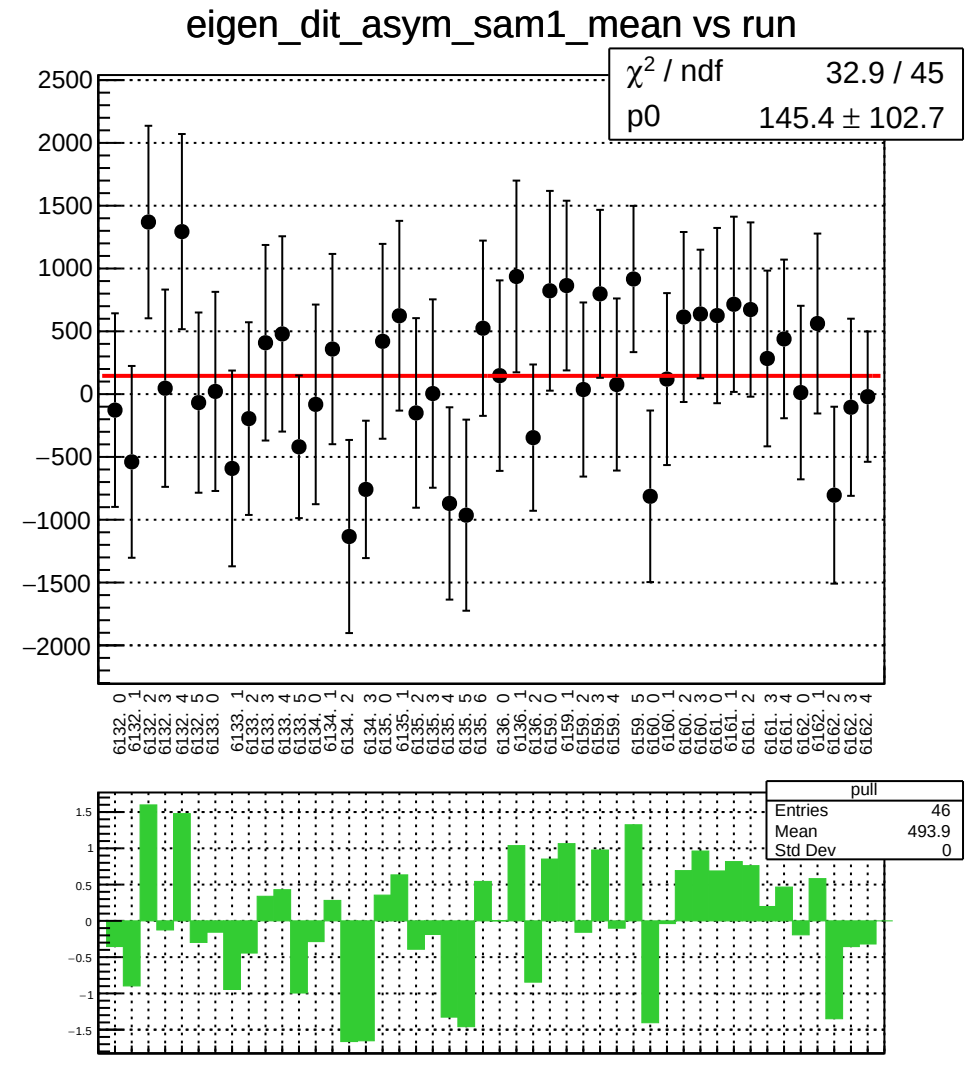
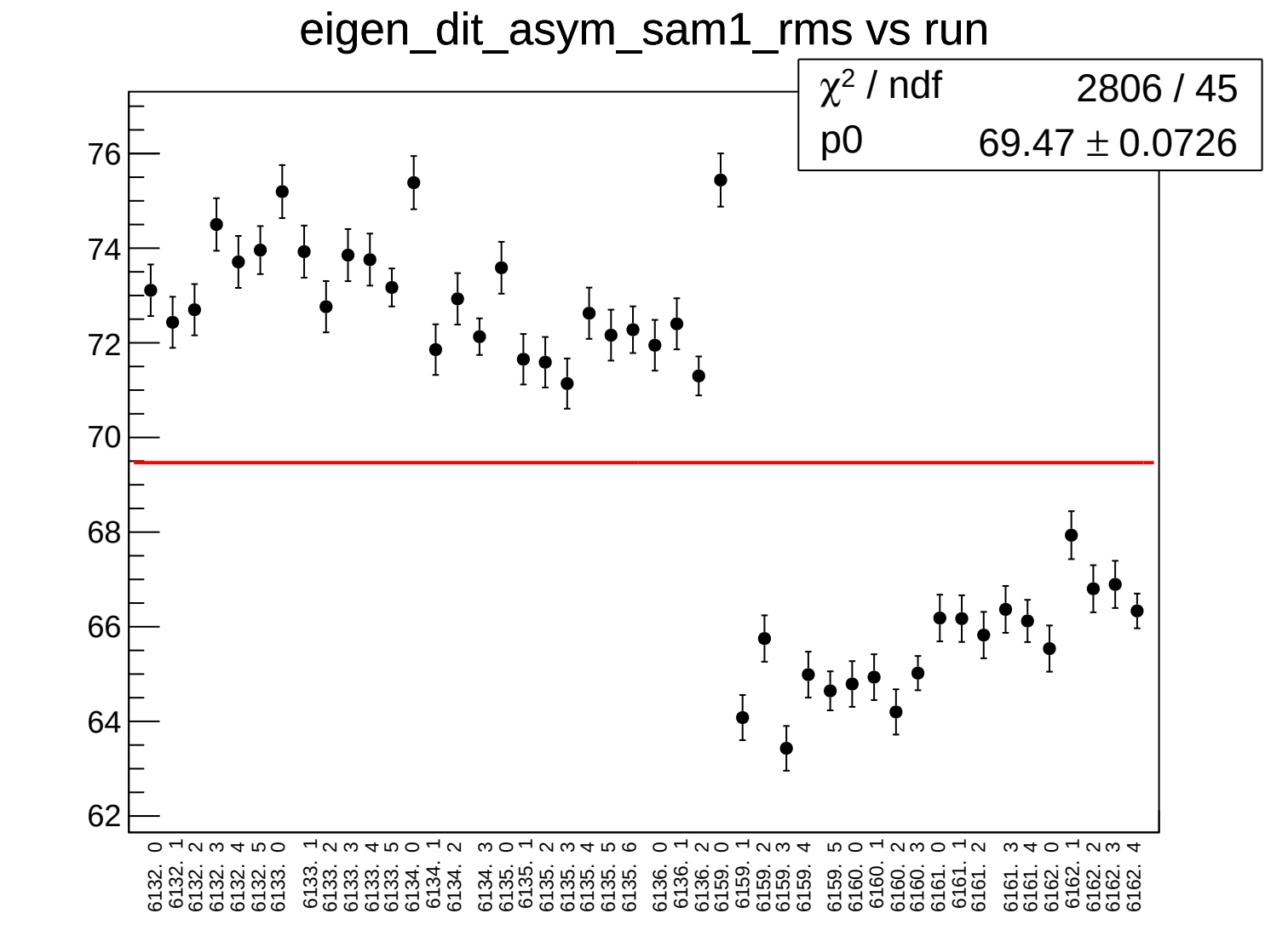
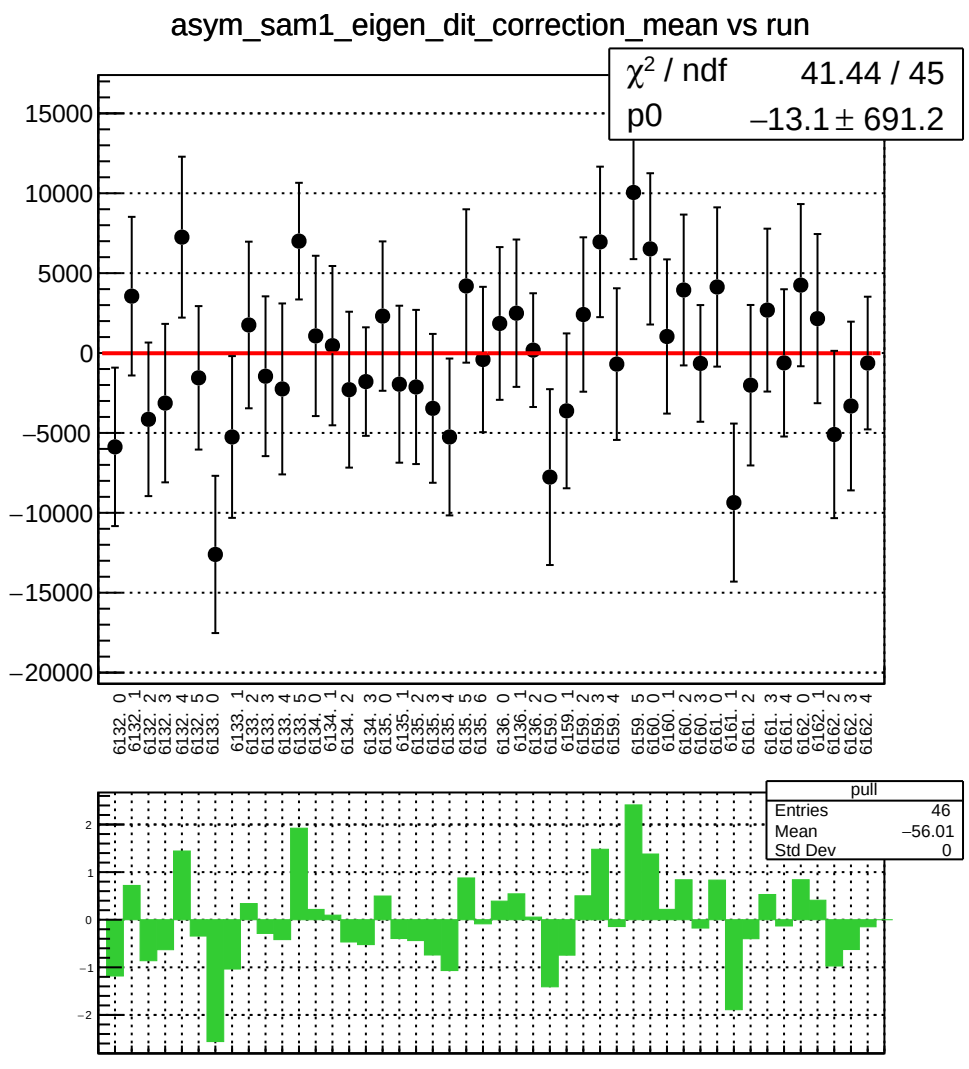
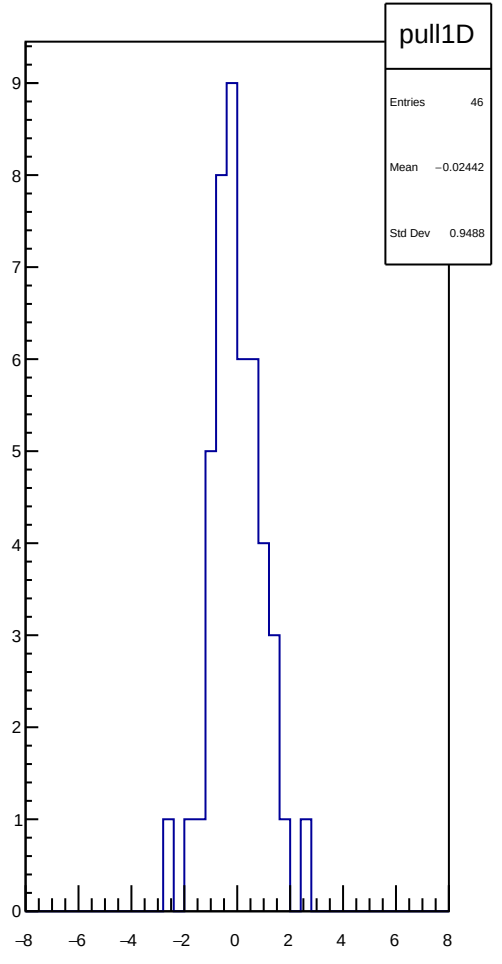
2
4
6
8

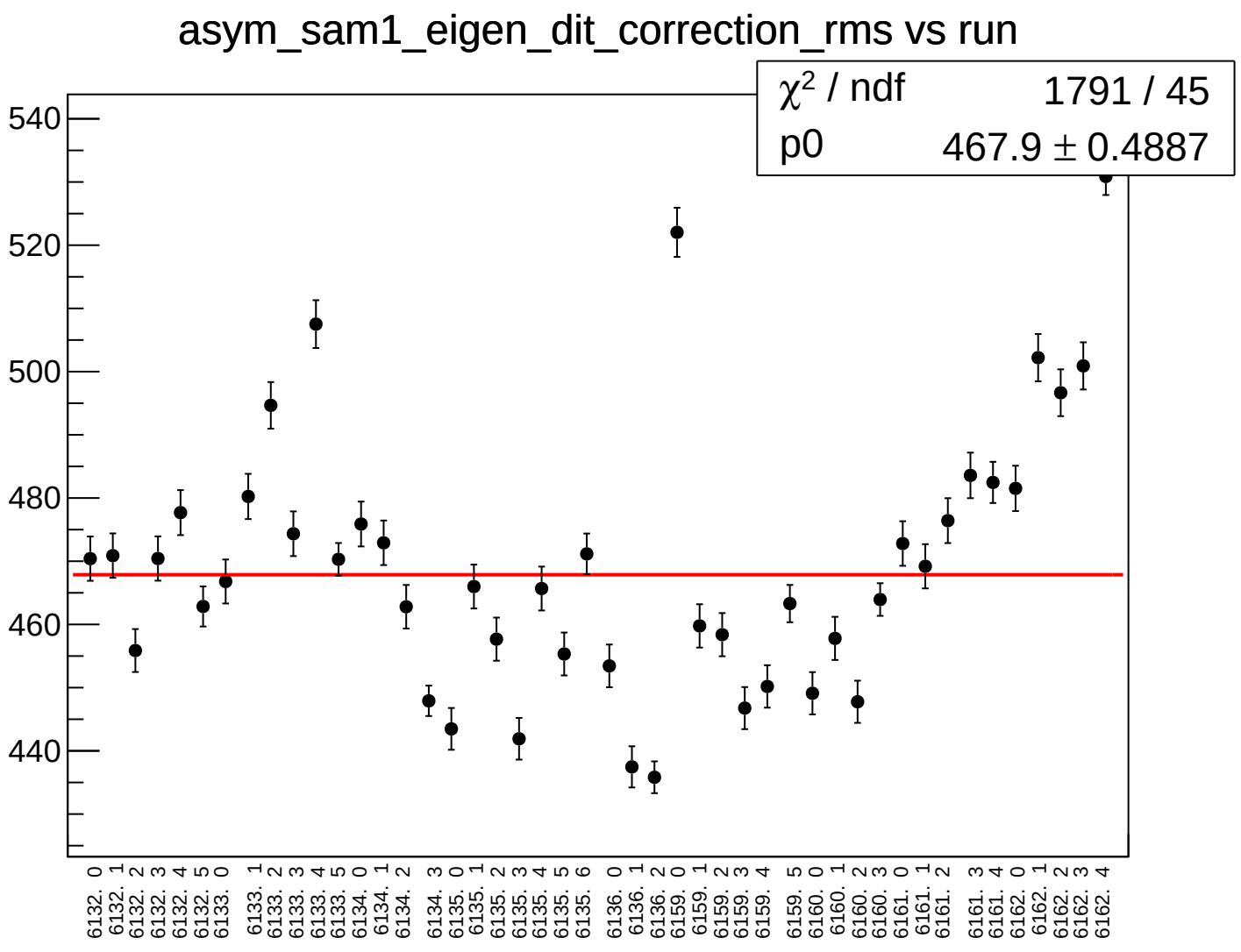

asym_sam1_dit_correction_rms vs run
χ² / ndf 1791 / 45
p0 467.9 ± 0.4887
540
520
500
480
460
440
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

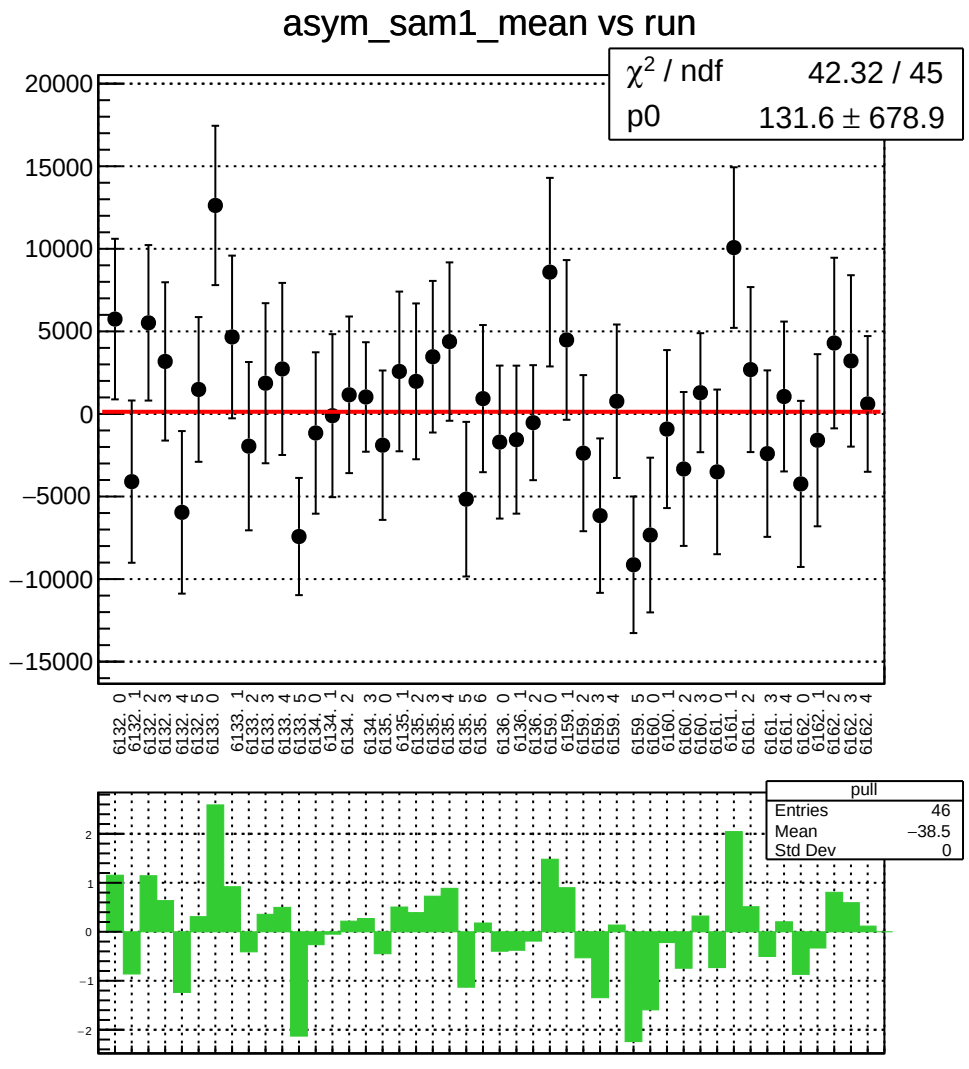

eigen_dit_asym_sam1_mean vs run
χ² / ndf 32.9 / 45
p0 145.4 ± 102.7
pull
Entries 46
Mean 493.9
Std Dev 0
pull1D
Entries 46
Mean 0.00313
Std Dev 0.8457

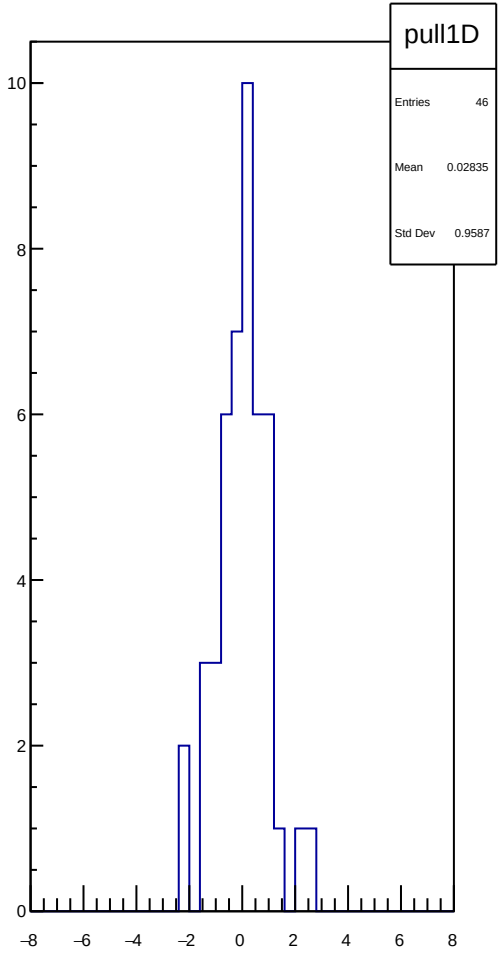

eigen_dit_asym_sam1_rms vs run
χ² / ndf 2806 / 45
p0 69.47 ± 0.0726
76
74
72
70
68
66
64
62
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

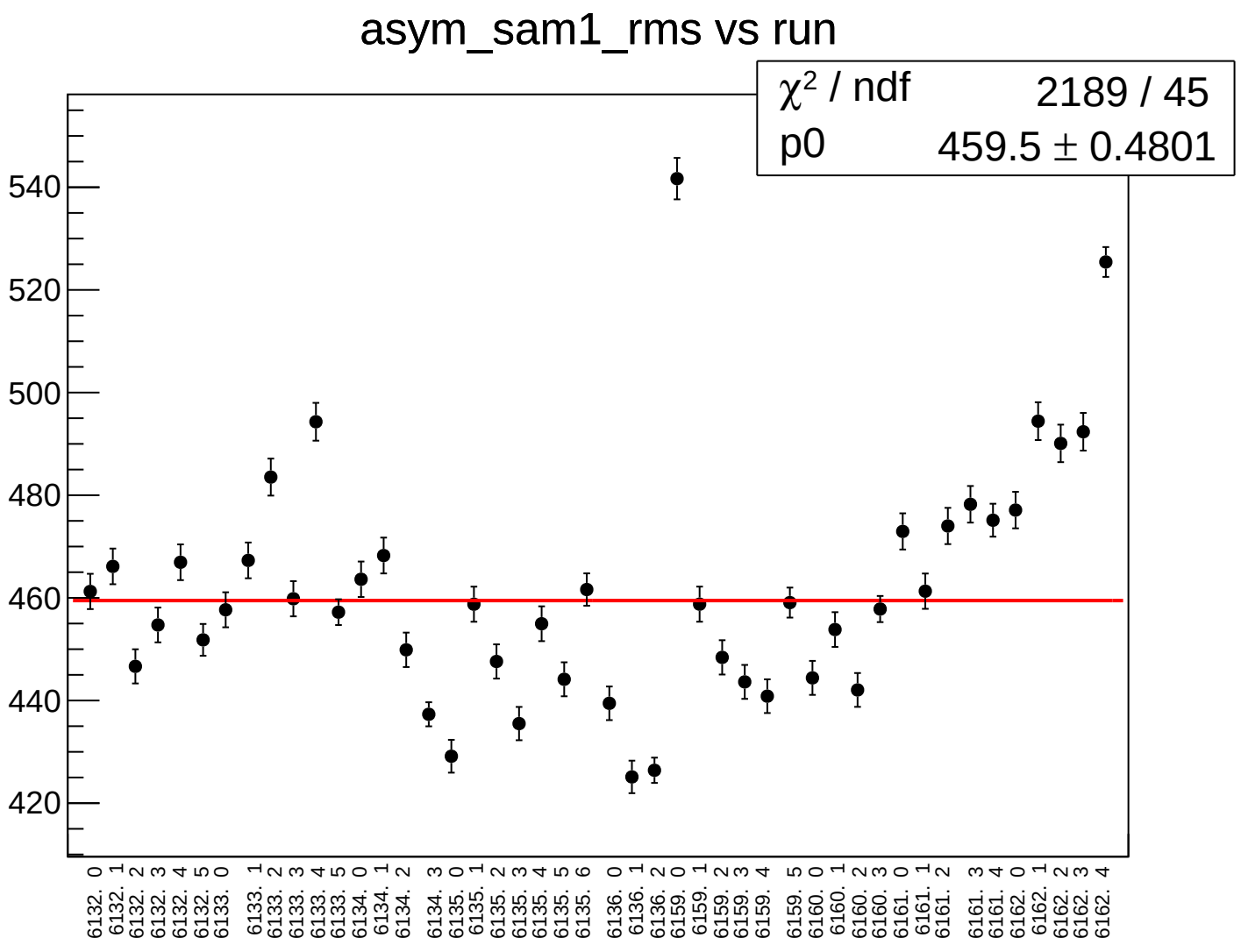

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 41.44 / 45
p0 −13.1 ± 691.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −56.01
Std Dev 0
2
1
0
−1
−2

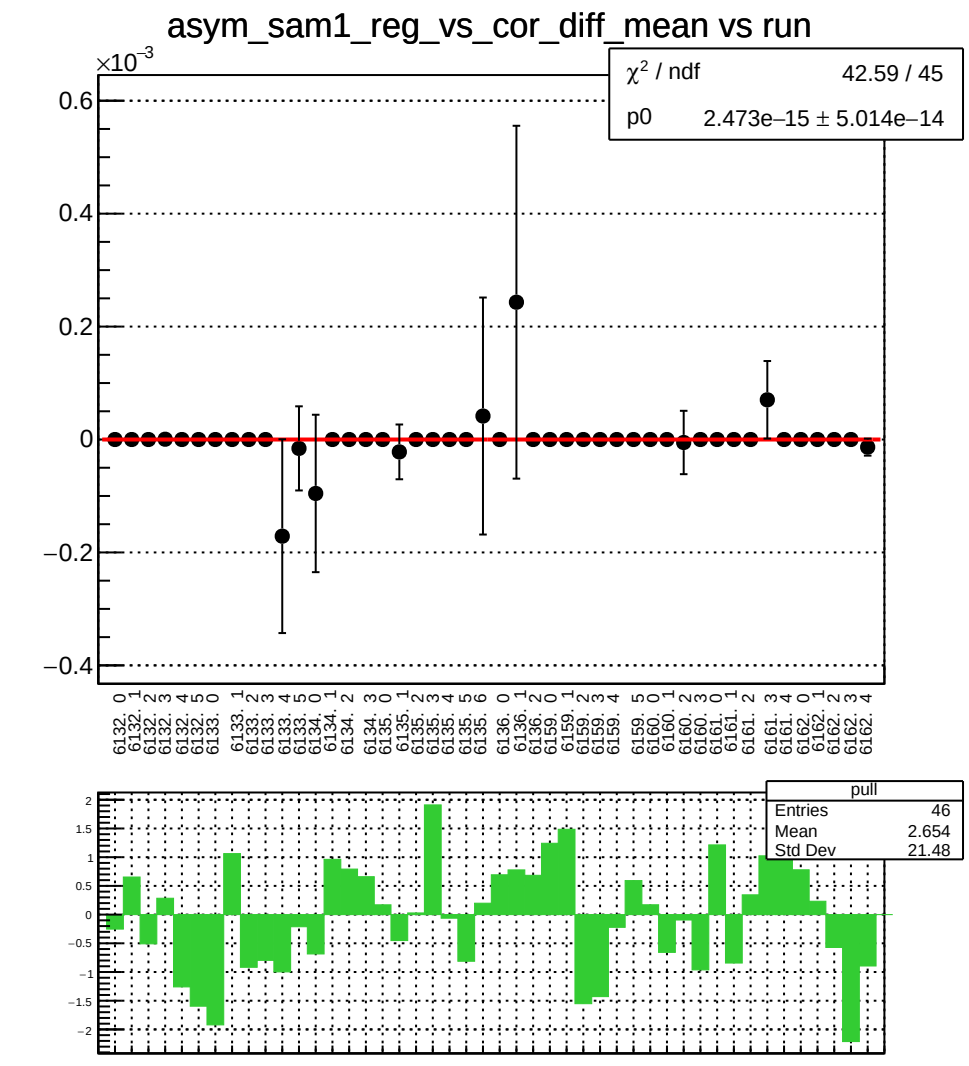

pull1D
Entries 46
Mean −0.02442
Std Dev 0.9488
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

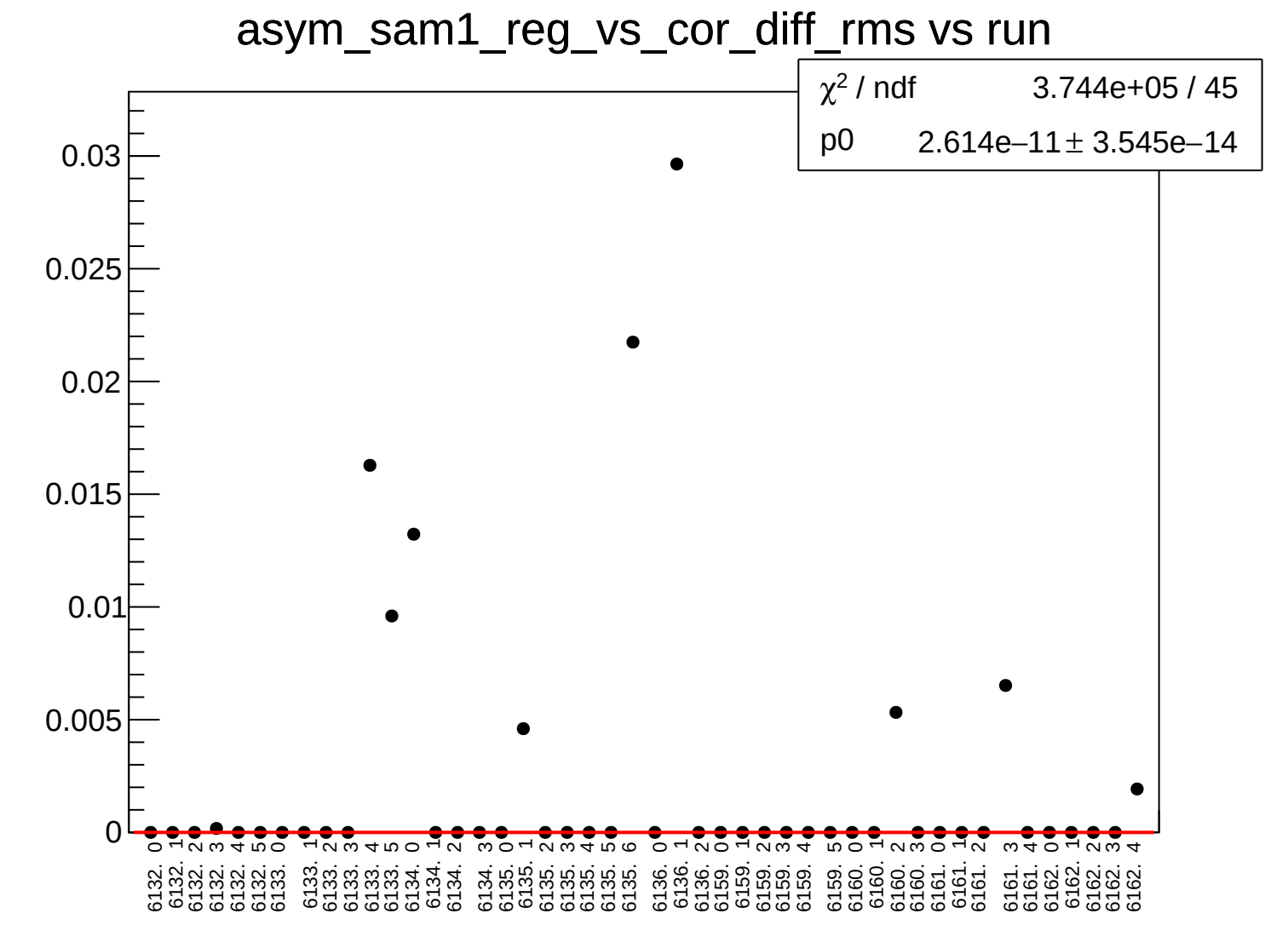

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 1791 / 45
p0 467.9 ± 0.4887
540
520
500
480
460
440
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

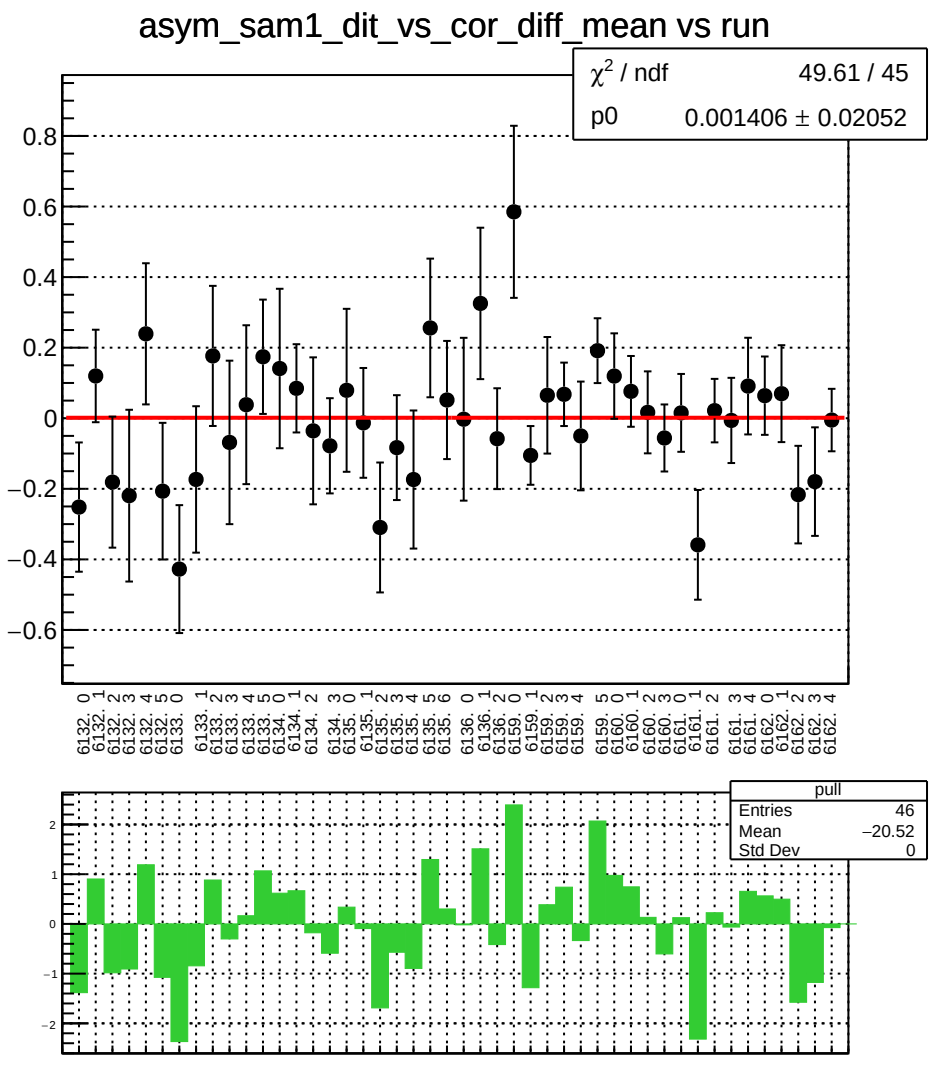

asym_sam1_mean vs run
χ² / ndf 42.32 / 45
p0 131.6 ± 678.9
20000
15000
10000
5000
0
−5000
−10000
−15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −38.5
Std Dev 0
2
1
0
−1
−2

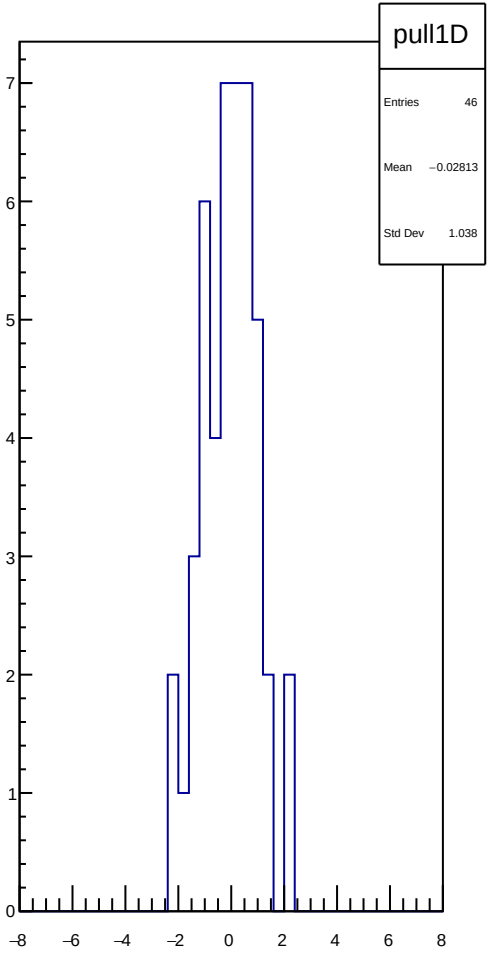

pull1D
Entries 46
Mean 0.02835
Std Dev 0.9587
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

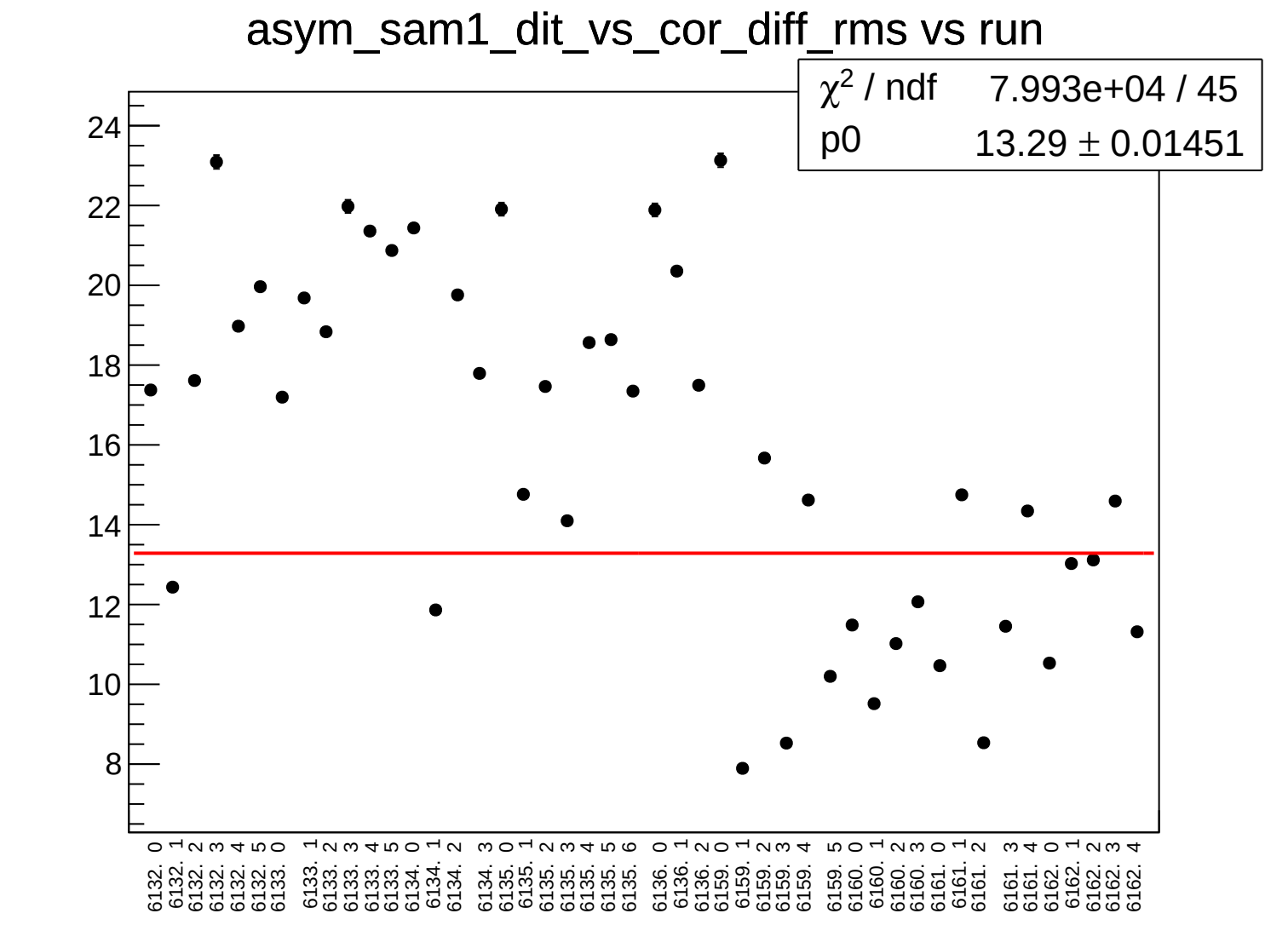

asym_sam1_rms vs run
χ² / ndf 2189 / 45
p0 459.5 ± 0.4801
540
520
500
480
460
440
420
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

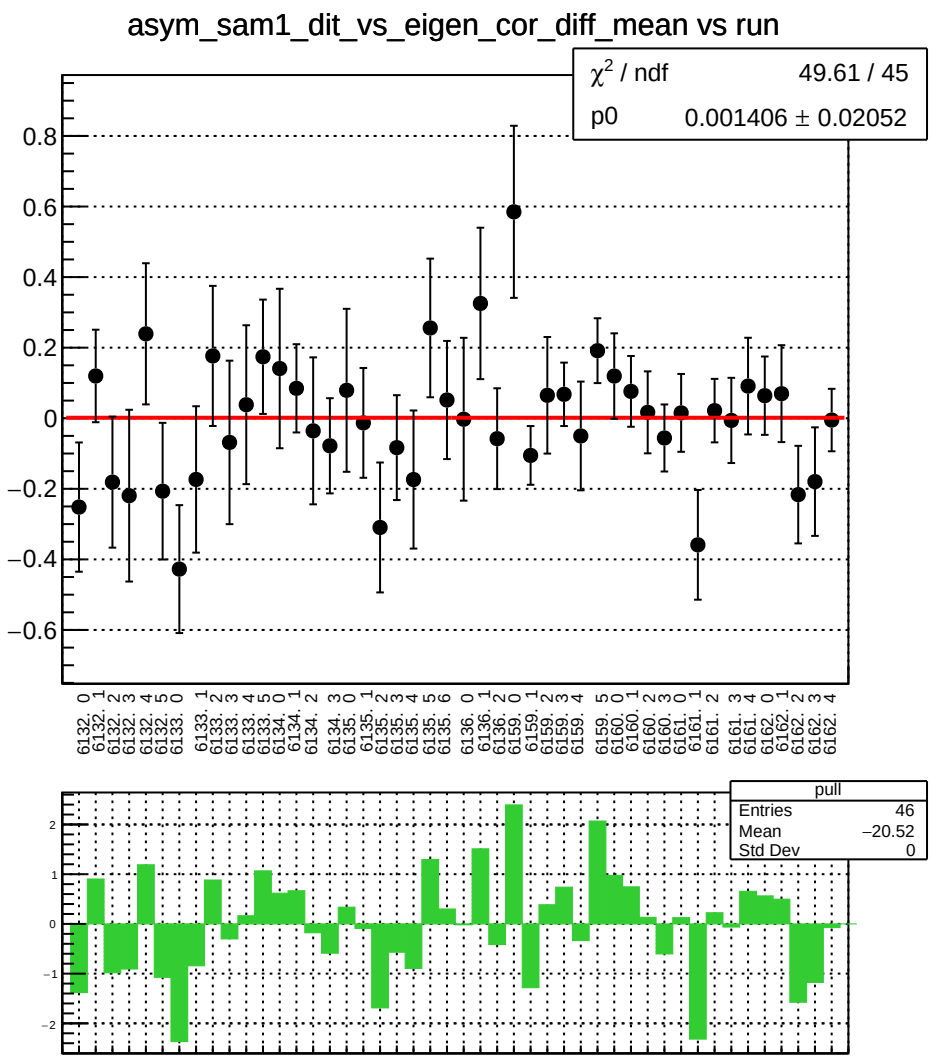

asym_sam1_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 42.59 / 45
p0 2.473e−15 ± 5.014e−14
0.6
0.4
0.2
0
−0.2
−0.4
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 2.654
Std Dev 21.48
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.05773
Std Dev 0.9605
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

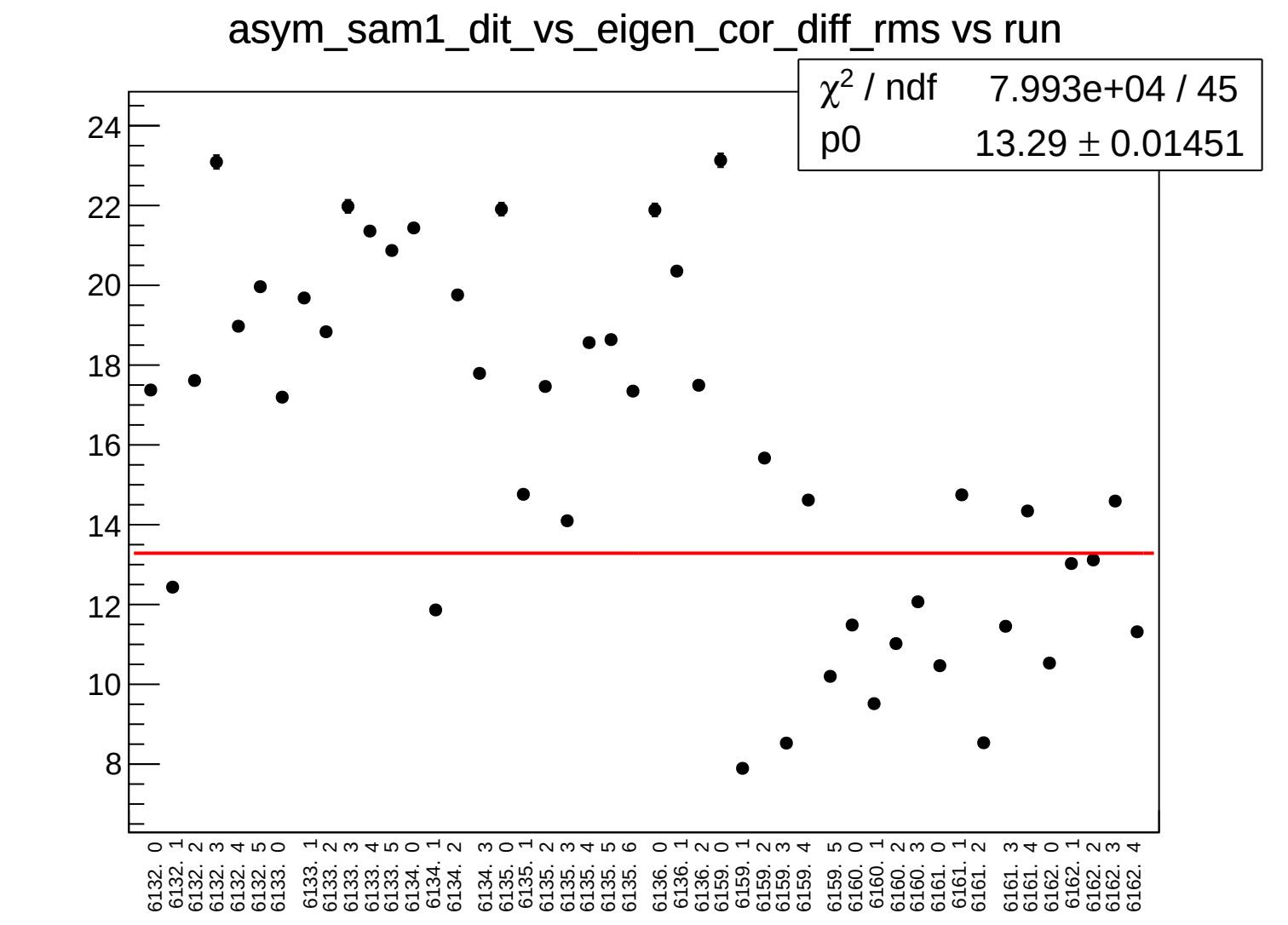

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 3.744e+05 / 45
p0 2.614e−11 ± 3.545e−14
0.03
0.025
0.02
0.015
0.01
0.005
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

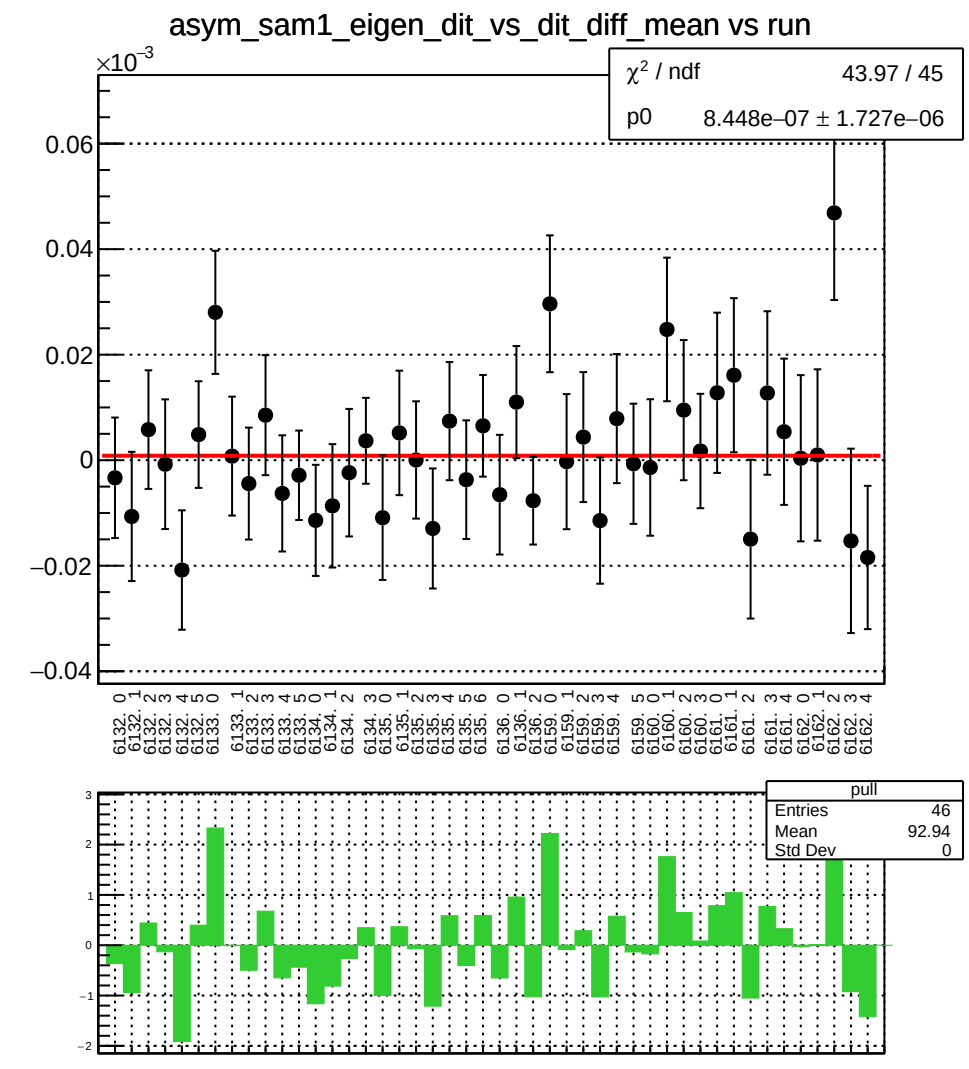

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 49.61 / 45
p0 0.001406 ± 0.02052
pull
Entries 46
Mean −20.52
Std Dev 0

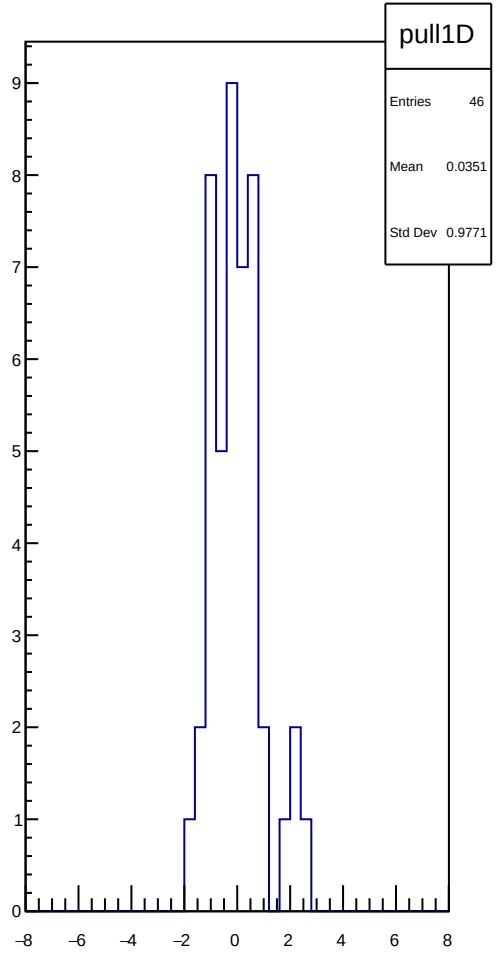

pull1D
Entries 46
Mean −0.02813
Std Dev 1.038

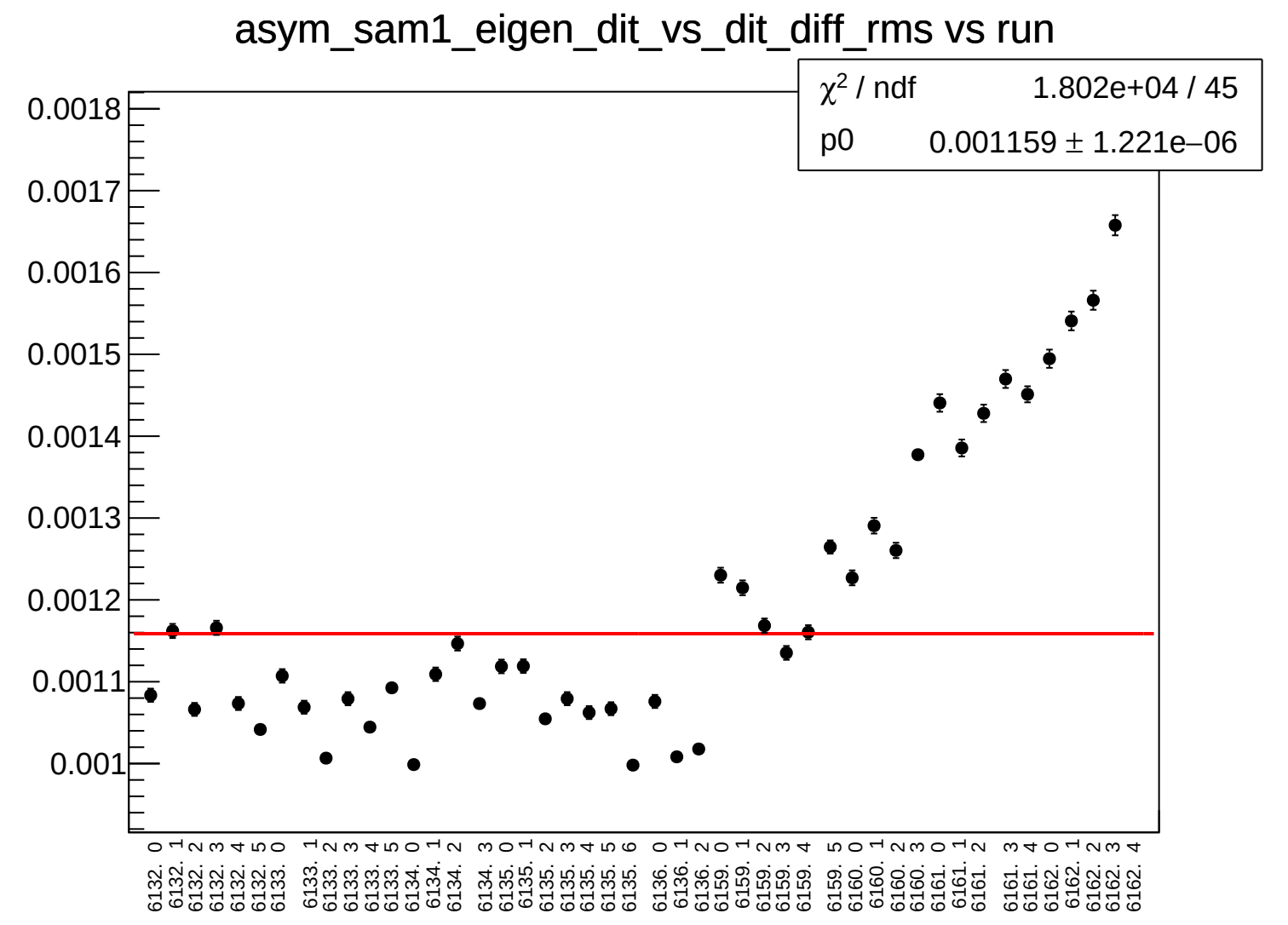

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 7.993e+04 / 45
p0 13.29 ± 0.01451
24
22
20
18
16
14
12
10
8
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

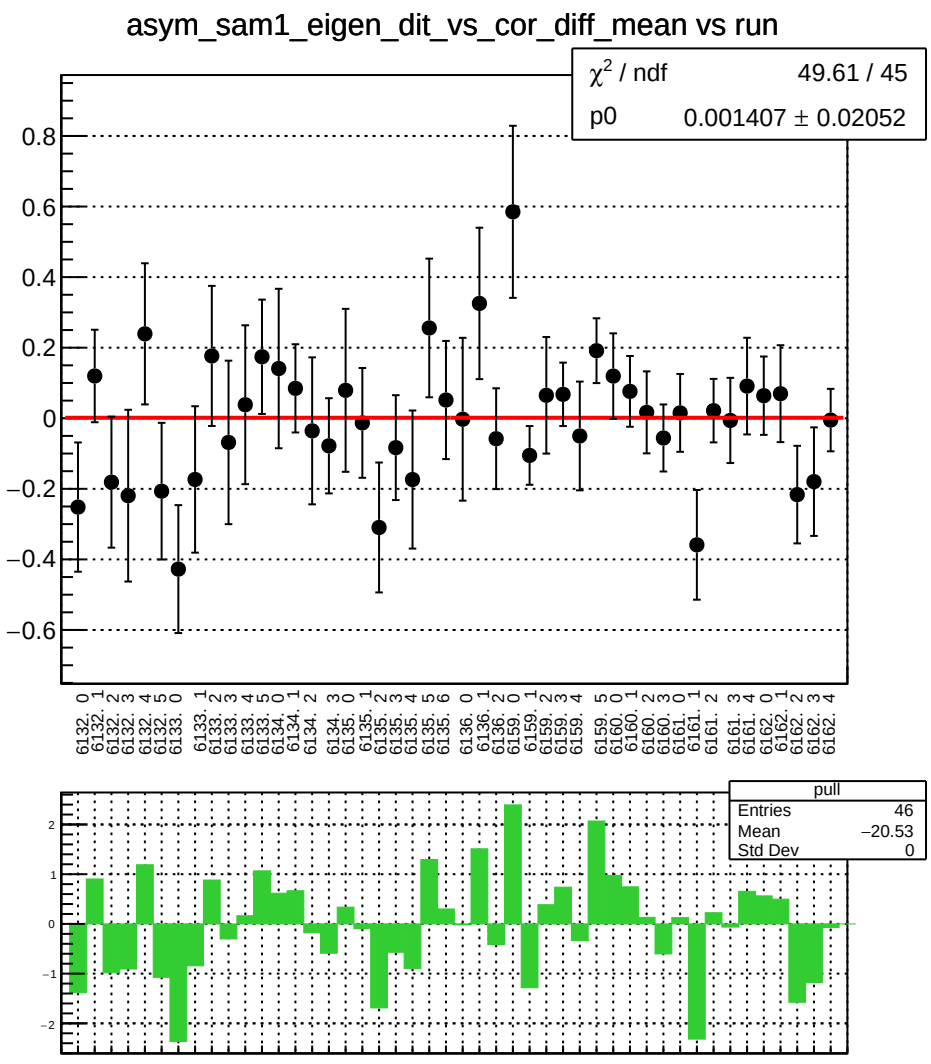

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.61 / 45
p0 0.001406 ± 0.02052
pull
Entries 46
Mean −20.52
Std Dev 0
pull1D
Entries 46
Mean −0.02813
Std Dev 1.038

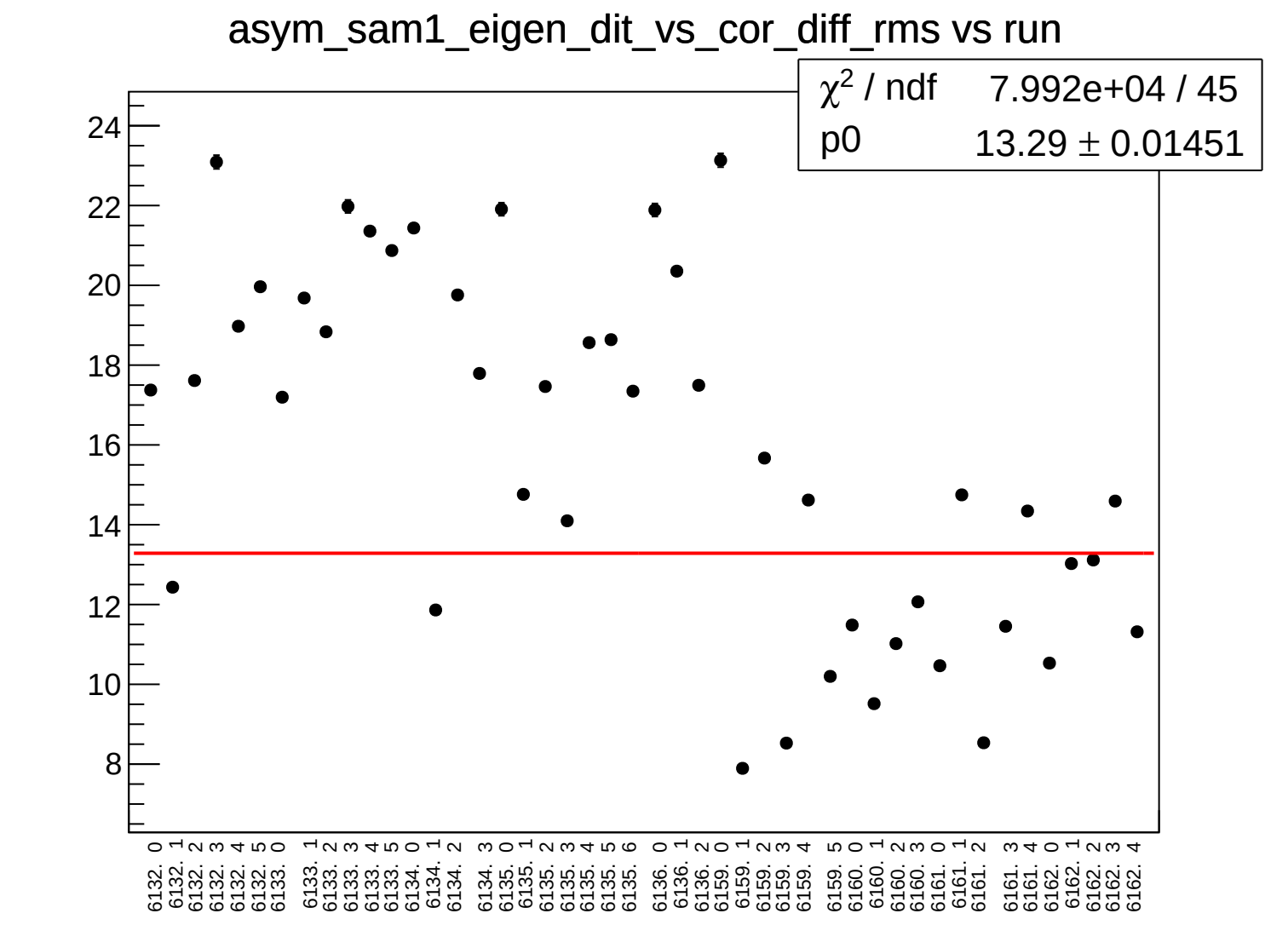

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.993e+04 / 45
p0 13.29 ± 0.01451
24
22
20
18
16
14
12
10
8
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

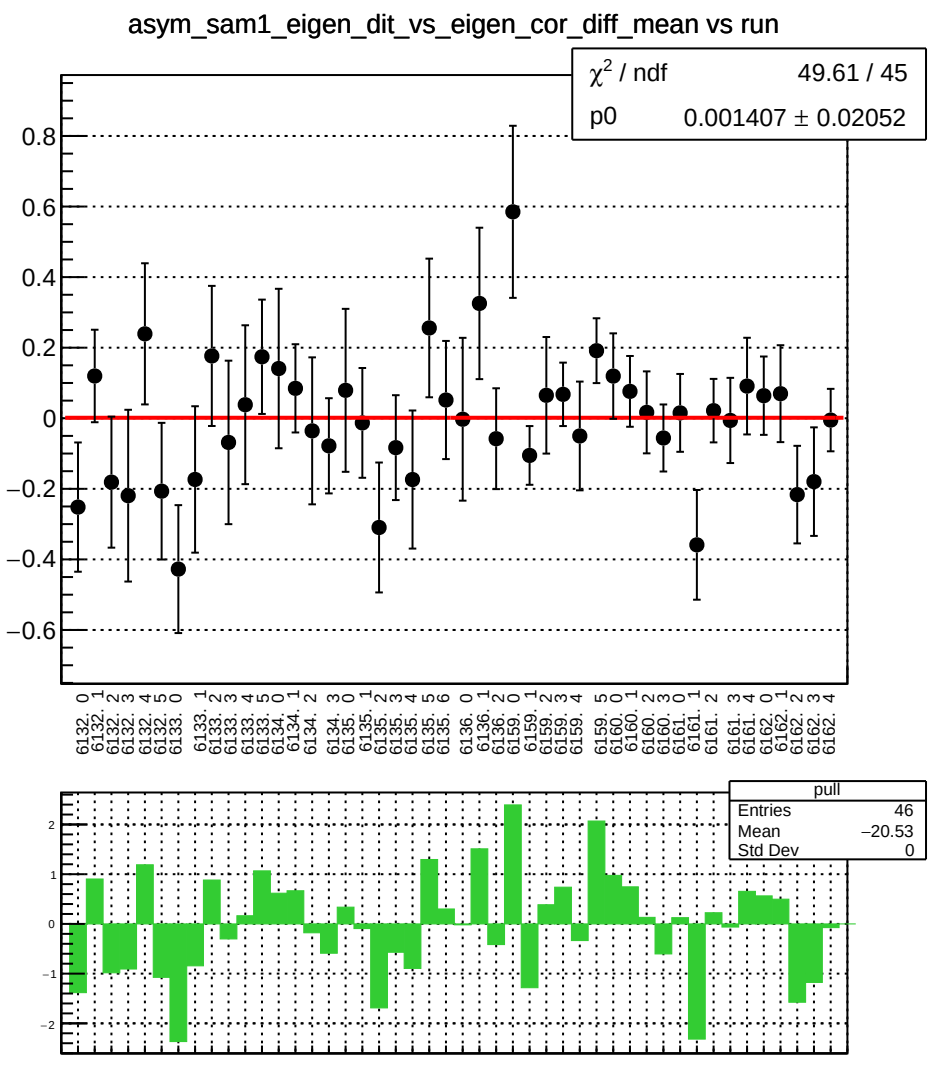

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 43.97 / 45
p0 8.448e−07 ± 1.727e−06
0.06
0.04
0.02
0
−0.02
−0.04
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 92.94
Std Dev 0
3
2
1
0
−1
−2

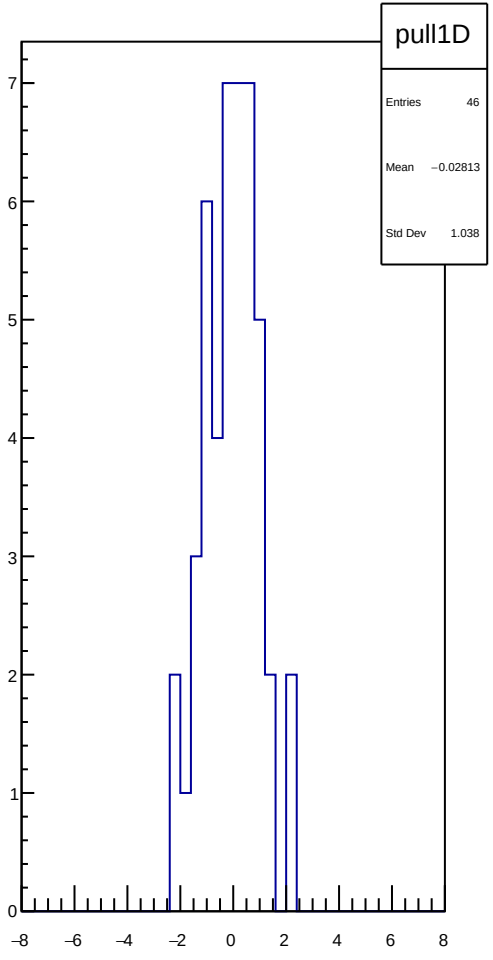

pull1D
Entries 46
Mean 0.0351
Std Dev 0.9771
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

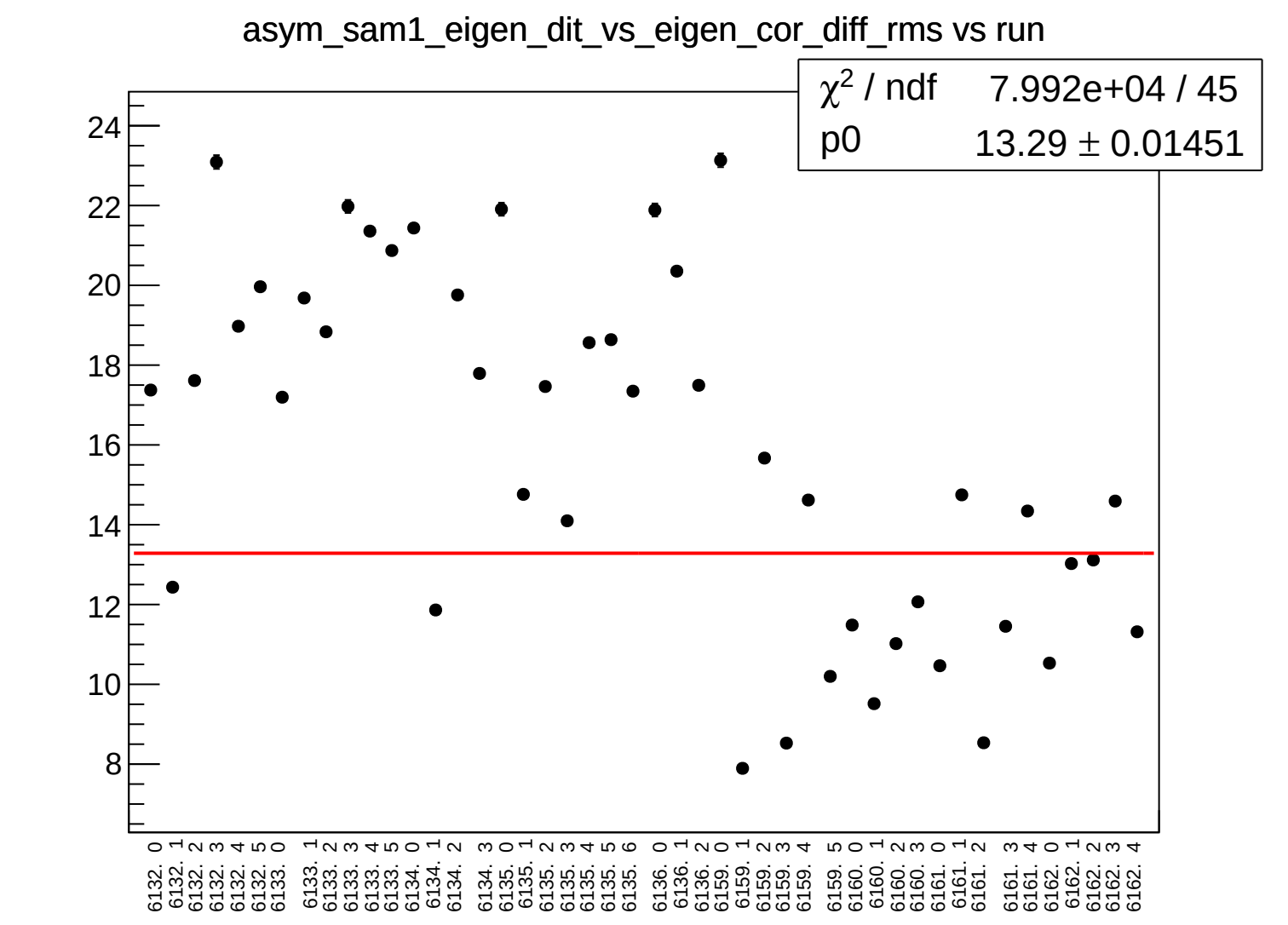

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.802e+04 / 45
p0 0.001159 ± 1.221e−06
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

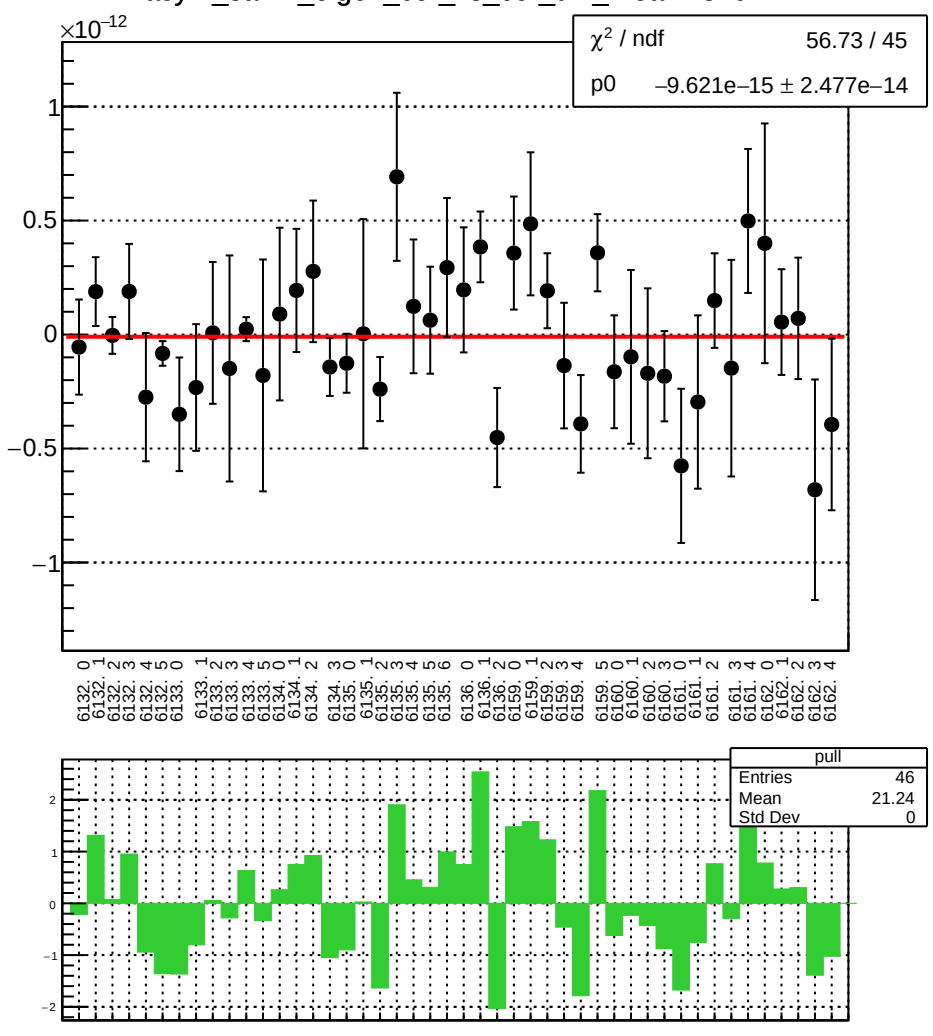

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 49.61 / 45
p0 0.001407 ± 0.02052
pull
Entries 46
Mean −20.53
Std Dev 0
pull1D
Entries 46
Mean −0.02813
Std Dev 1.038

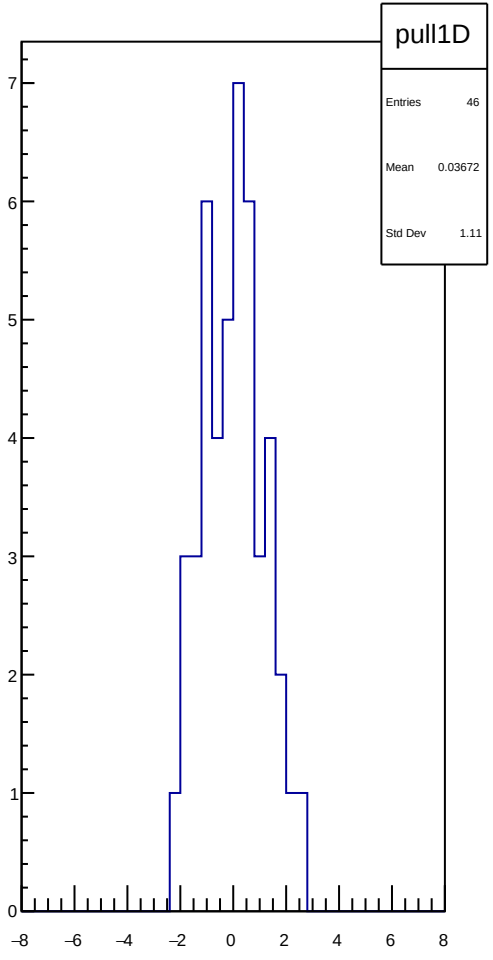

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.992e+04 / 45
p0 13.29 ± 0.01451
24
22
20
18
16
14
12
10
8
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

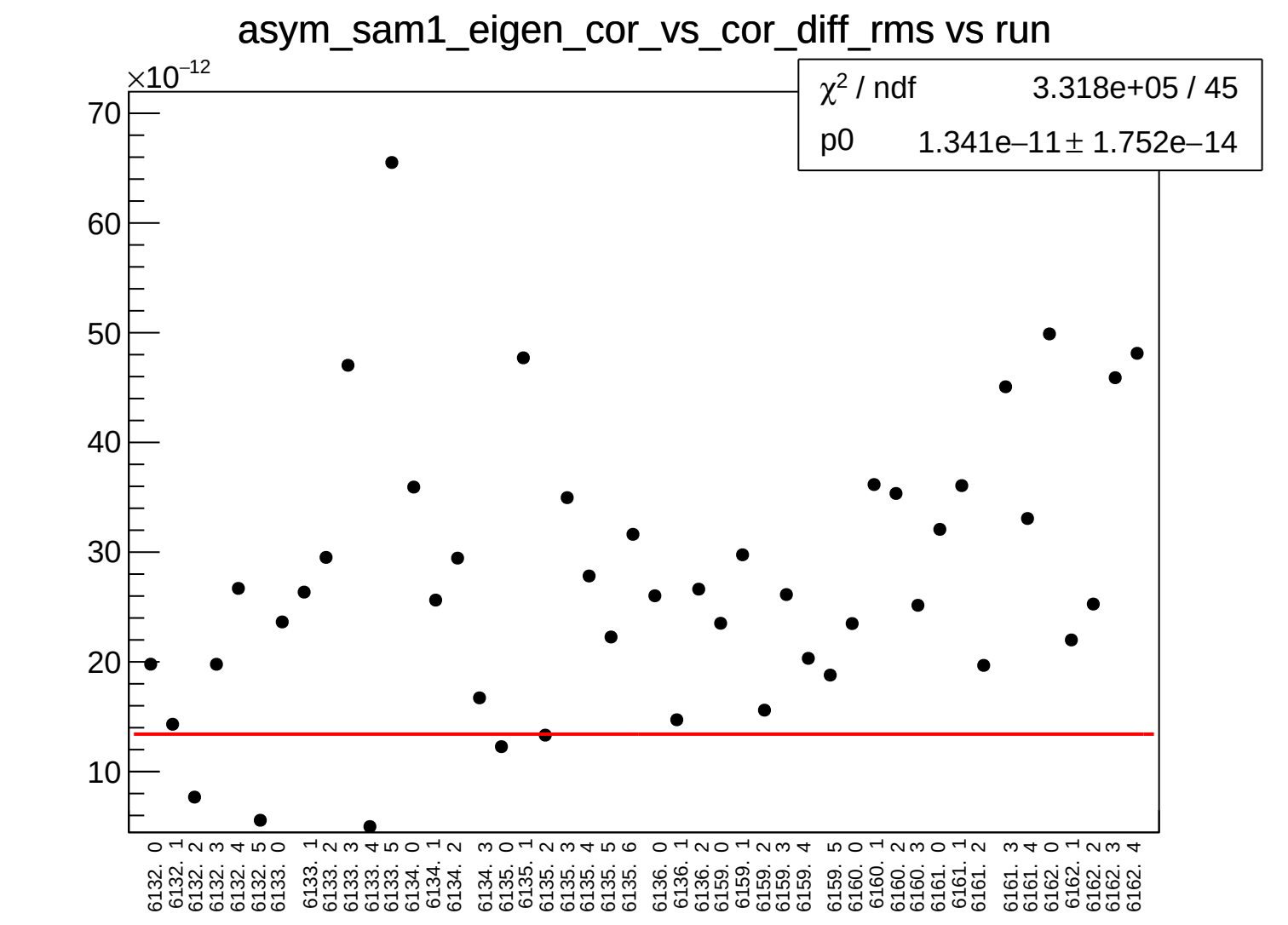

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.61 / 45
p0 0.001407 ± 0.02052
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −20.53
Std Dev 0
2
1
0
−1
−2

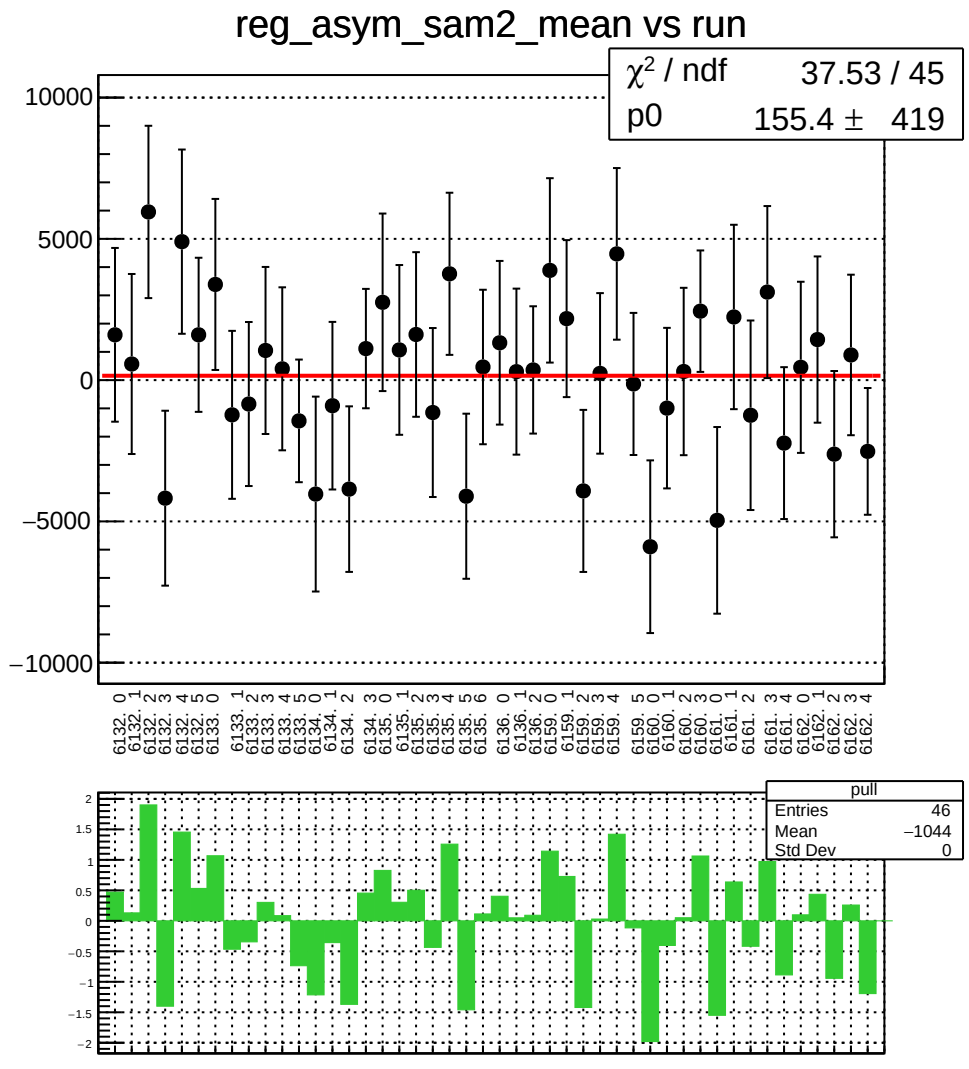

pull1D
Entries 46
Mean −0.02813
Std Dev 1.038
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

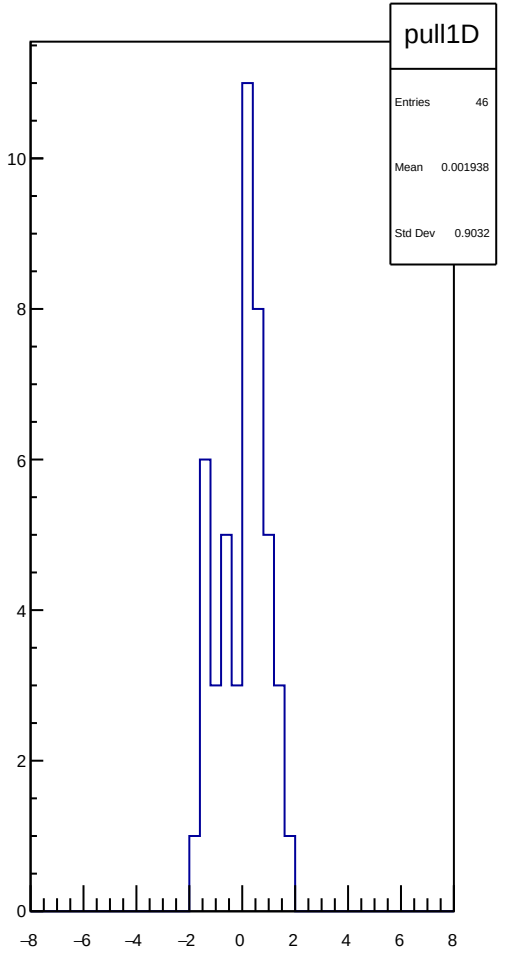

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.992e+04 / 45
p0 13.29 ± 0.01451
24
22
20
18
16
14
12
10
8
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

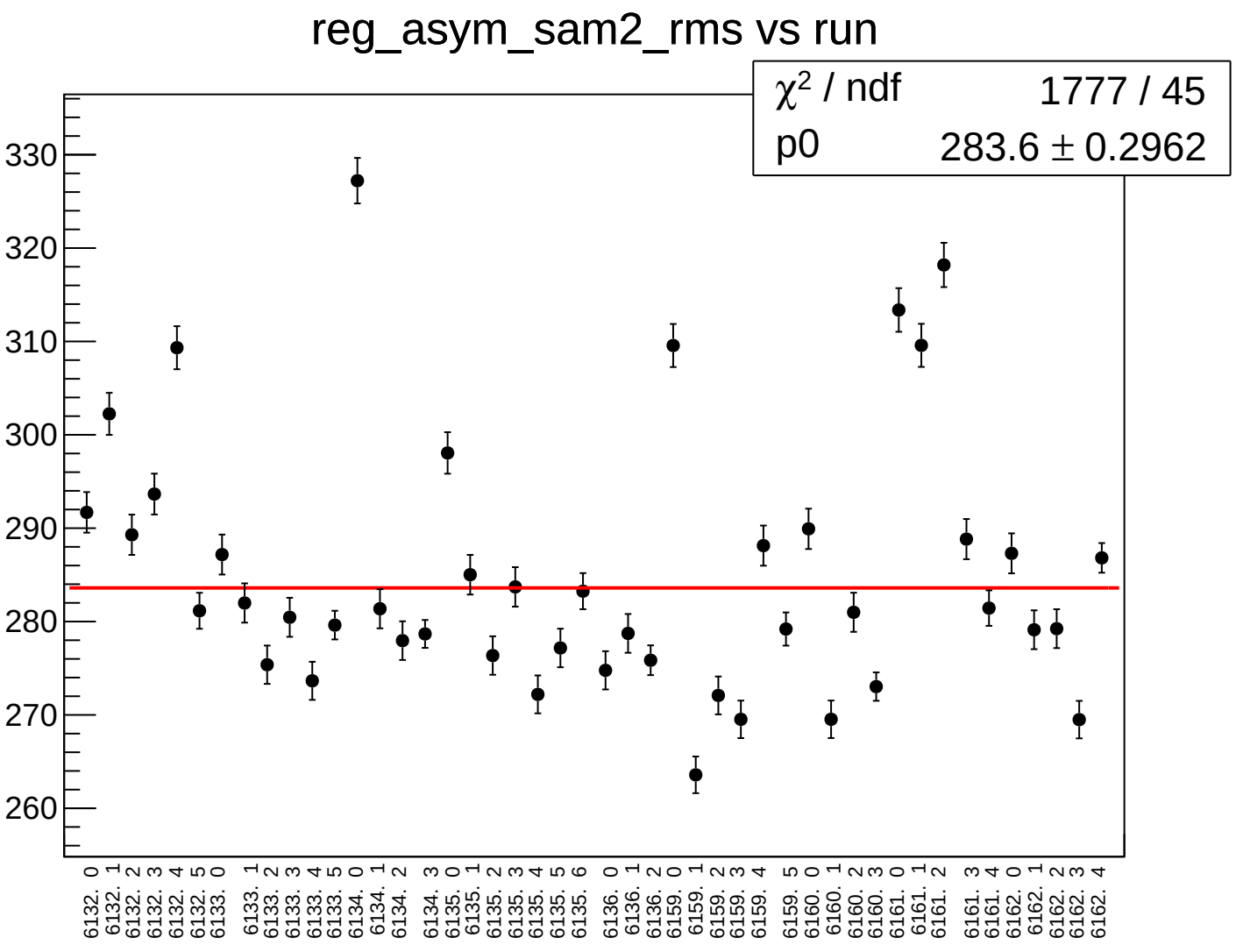

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 56.73 / 45
p0 −9.621e−15 ± 2.477e−14
1
0.5
0
−0.5
−1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 21.24
Std Dev 0
2
1
0
−1
−2

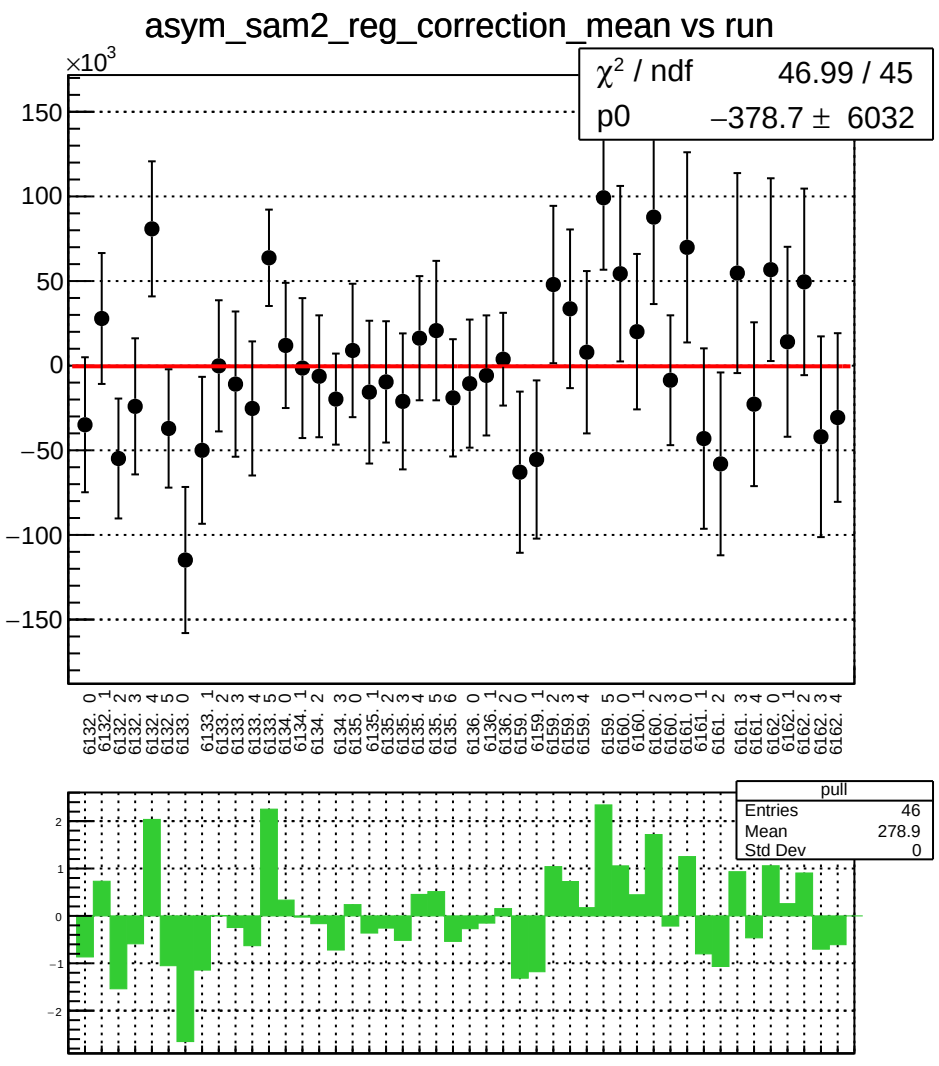

pull1D
Entries 46
Mean 0.03672
Std Dev 1.11
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

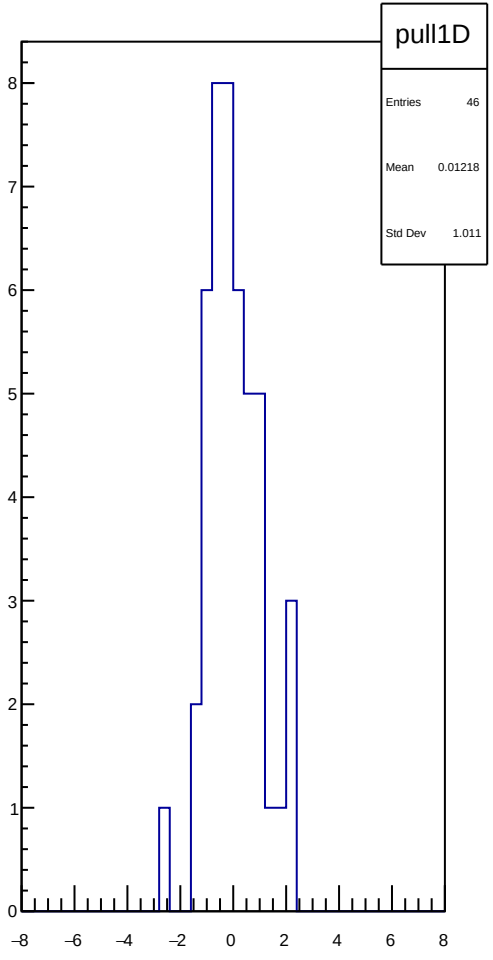

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.318e+05 / 45
p0 1.341e−11 ± 1.752e−14
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

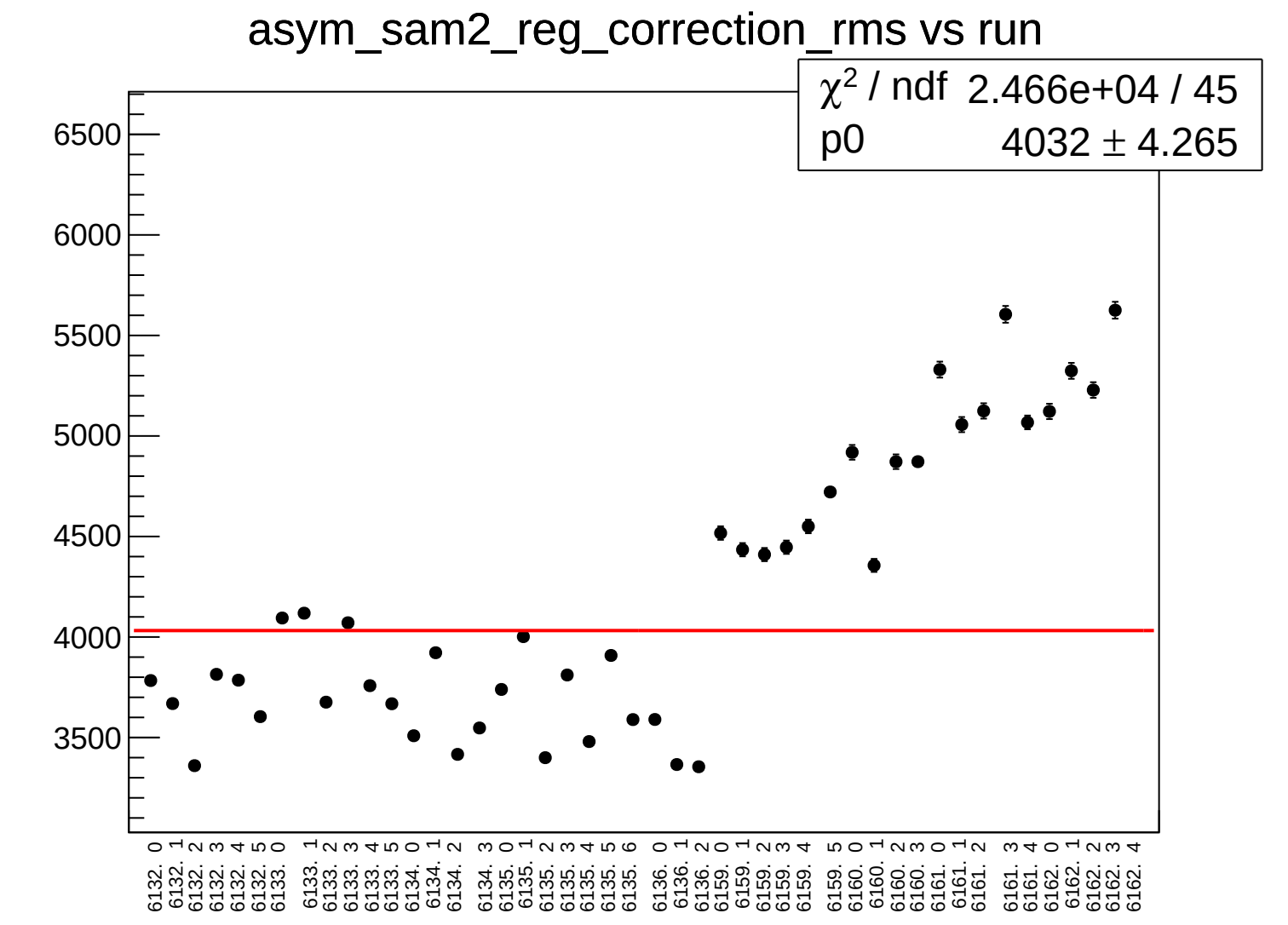

reg_asym_sam2_mean vs run
χ² / ndf 37.53 / 45
p0 155.4 ± 419
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1044
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

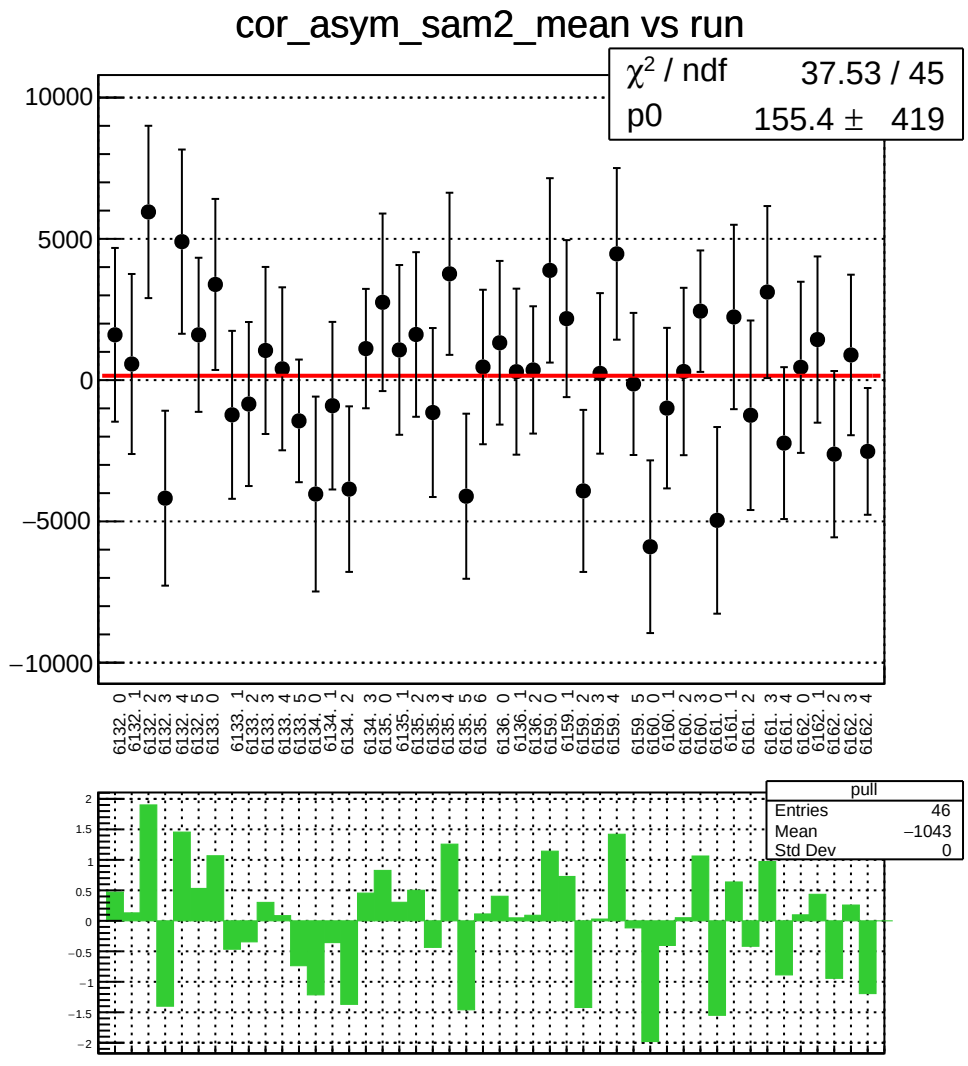

pull1D
Entries 46
Mean 0.001938
Std Dev 0.9032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

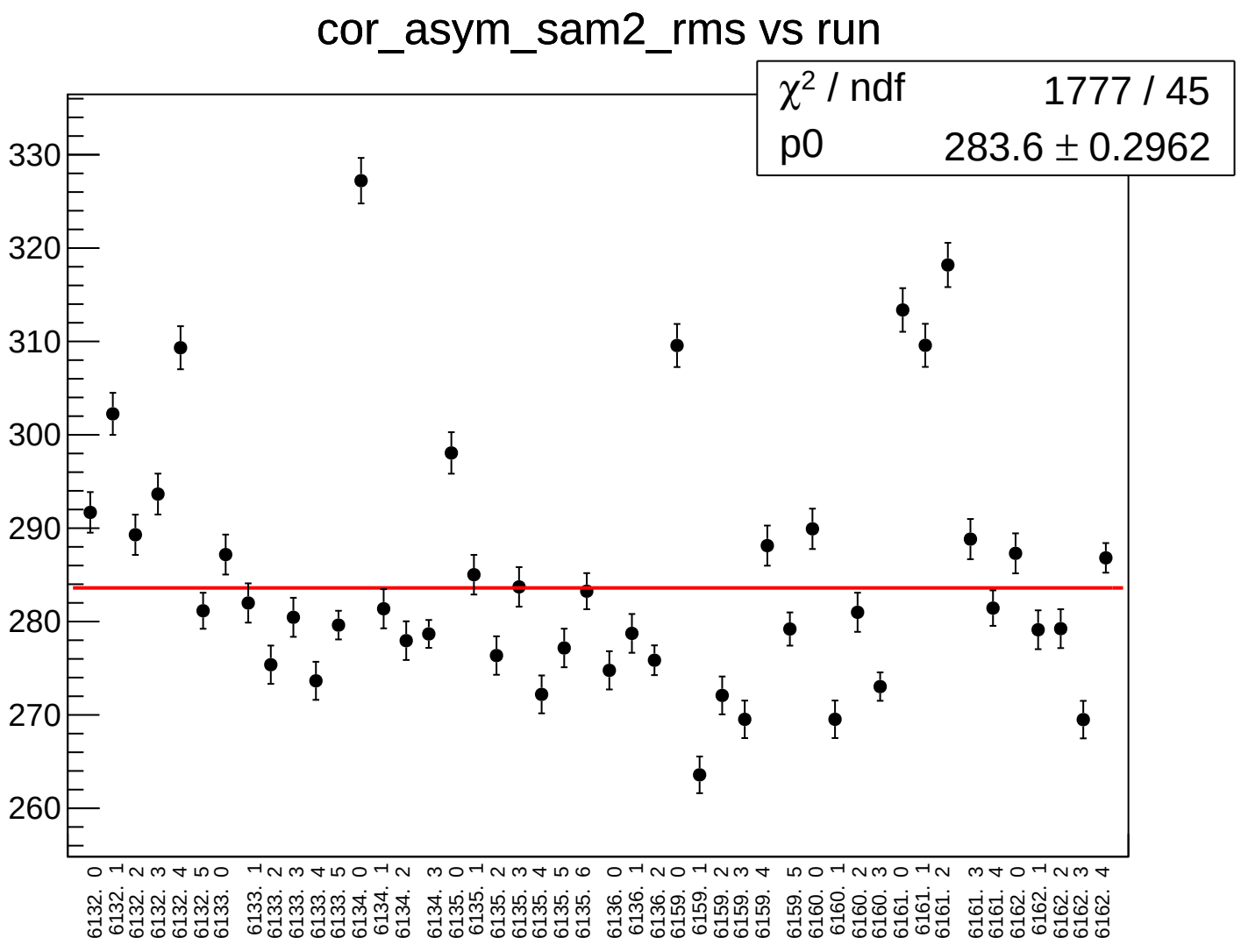

reg_asym_sam2_rms vs run
χ² / ndf 1777 / 45
p0 283.6 ± 0.2962
330
320
310
300
290
280
270
260
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 46.99 / 45
p0 −378.7 ± 6032
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 278.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.01218
Std Dev 1.011
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_reg_correction_rms vs run
χ² / ndf 2.466e+04 / 45
p0 4032 ± 4.265
6500
6000
5500
5000
4500
4000
3500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_sam2_mean vs run
χ² / ndf 37.53 / 45
p0 155.4 ± 419
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1043
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.001939
Std Dev 0.9032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam2_rms vs run
χ² / ndf 1777 / 45
p0 283.6 ± 0.2962
330
320
310
300
290
280
270
260
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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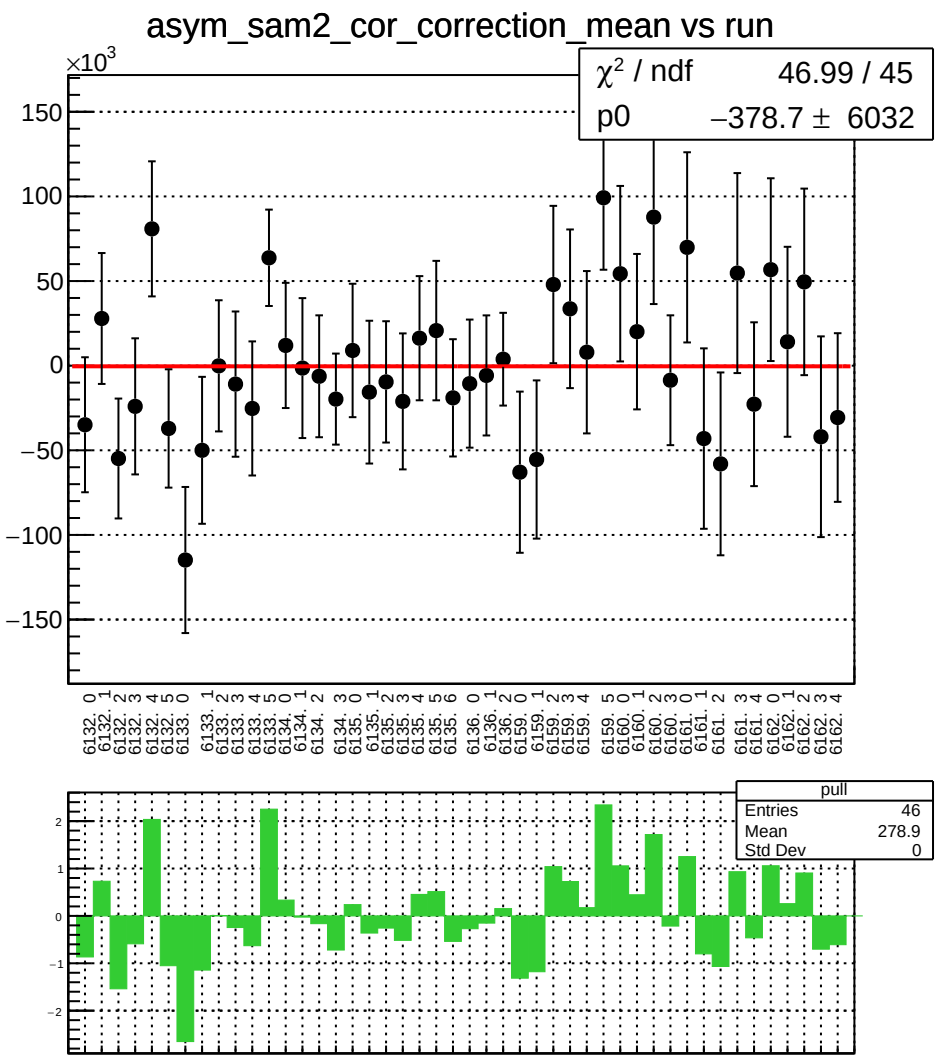
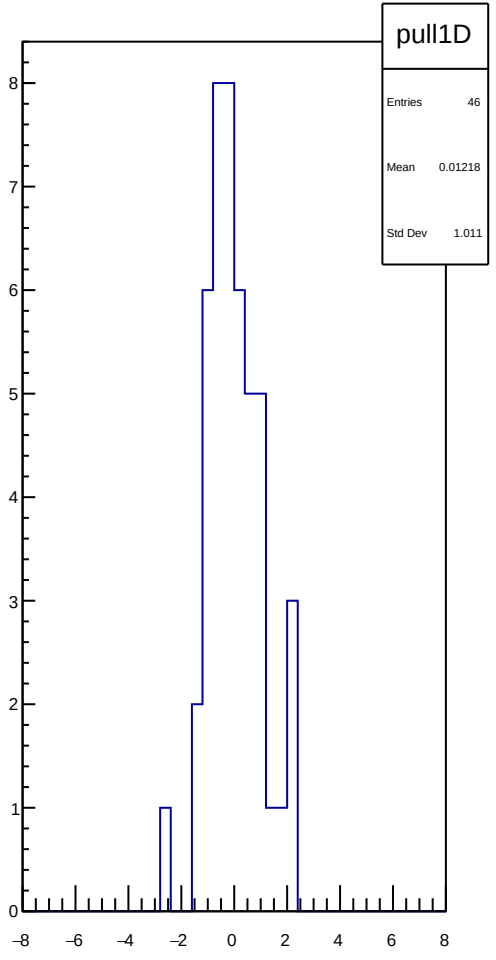
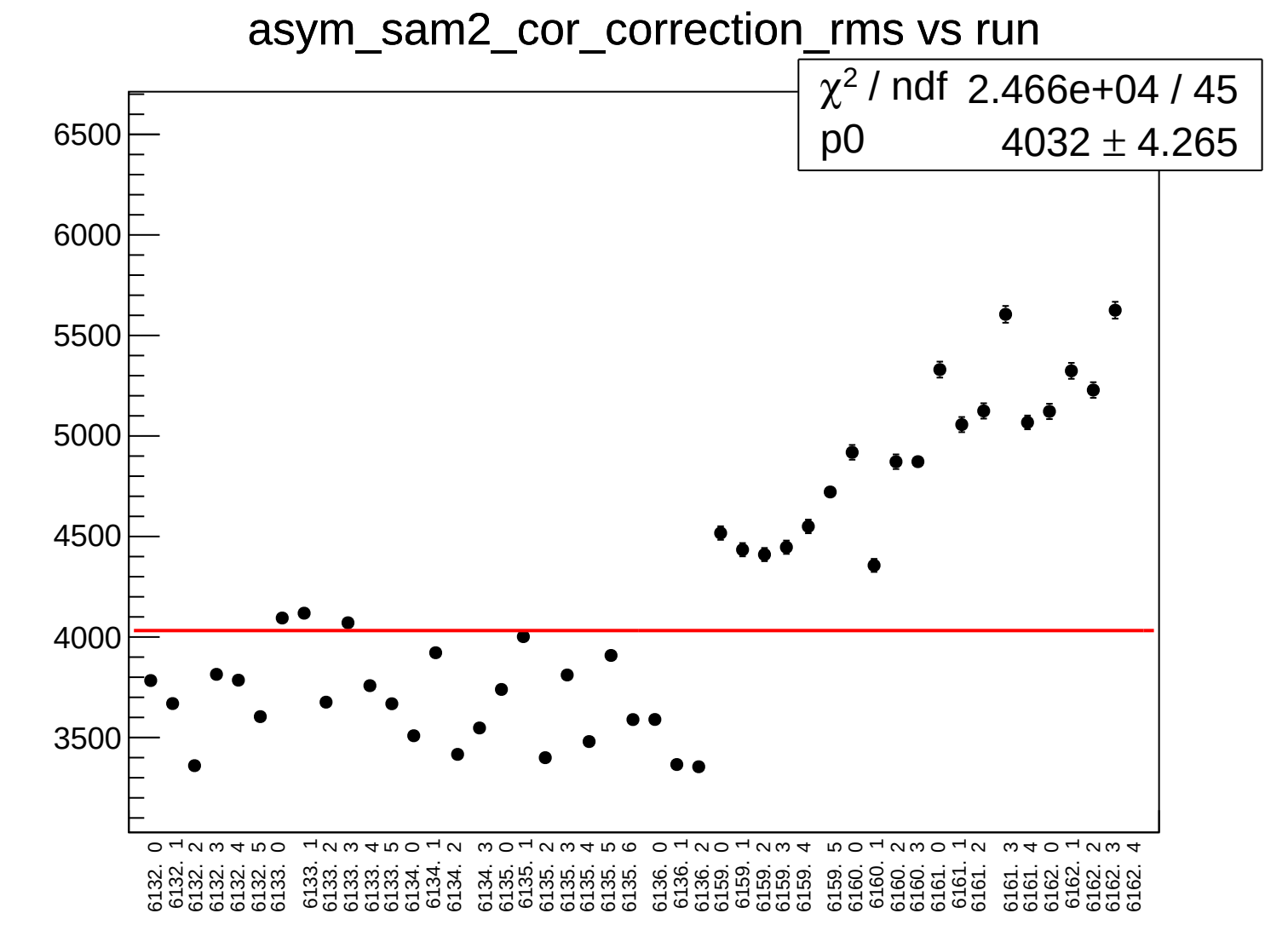
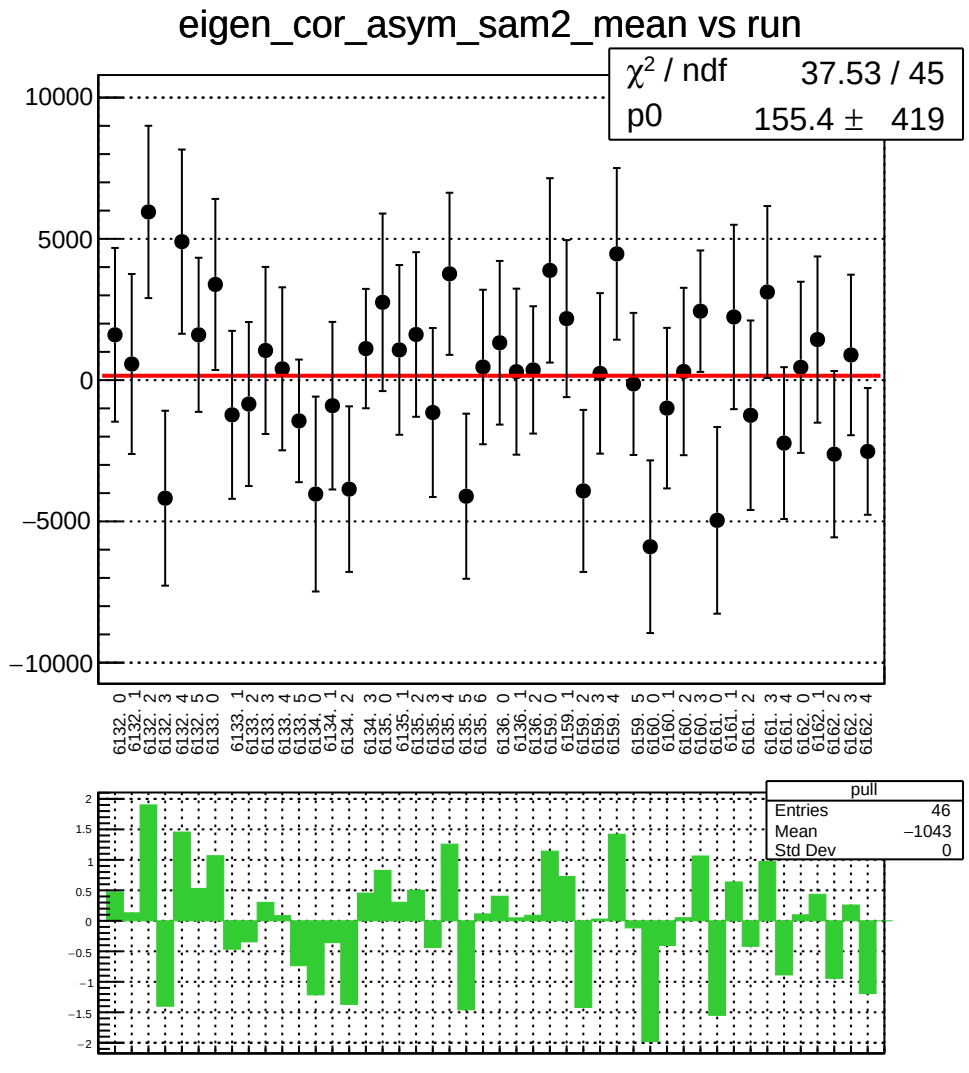
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 46.99 / 45
p0 −378.7 ± 6032
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 278.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.01218
Std Dev 1.011
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_cor_correction_rms vs run
χ² / ndf 2.466e+04 / 45
p0 4032 ± 4.265
6500
6000
5500
5000
4500
4000
3500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_sam2_mean vs run
χ² / ndf 37.53 / 45
p0 155.4 ± 419
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
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6135. 5
6135. 6
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6136. 2
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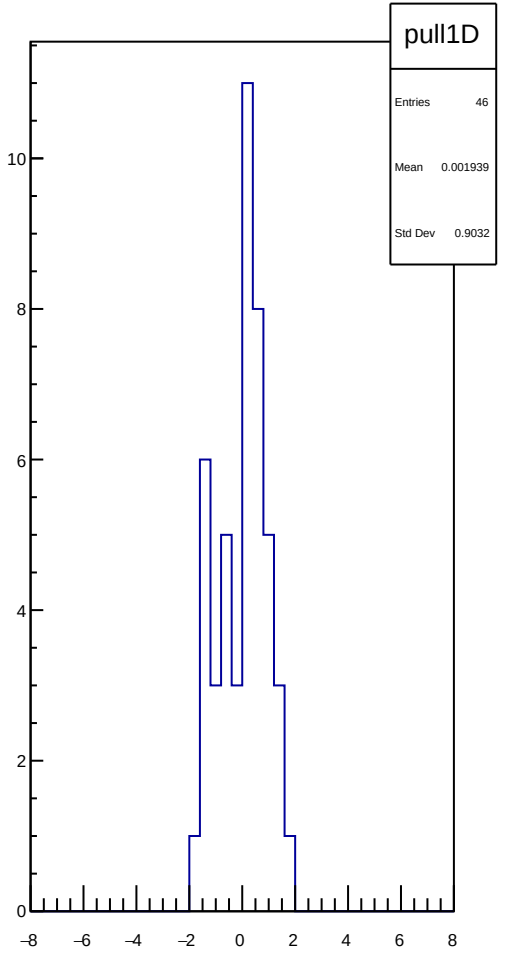
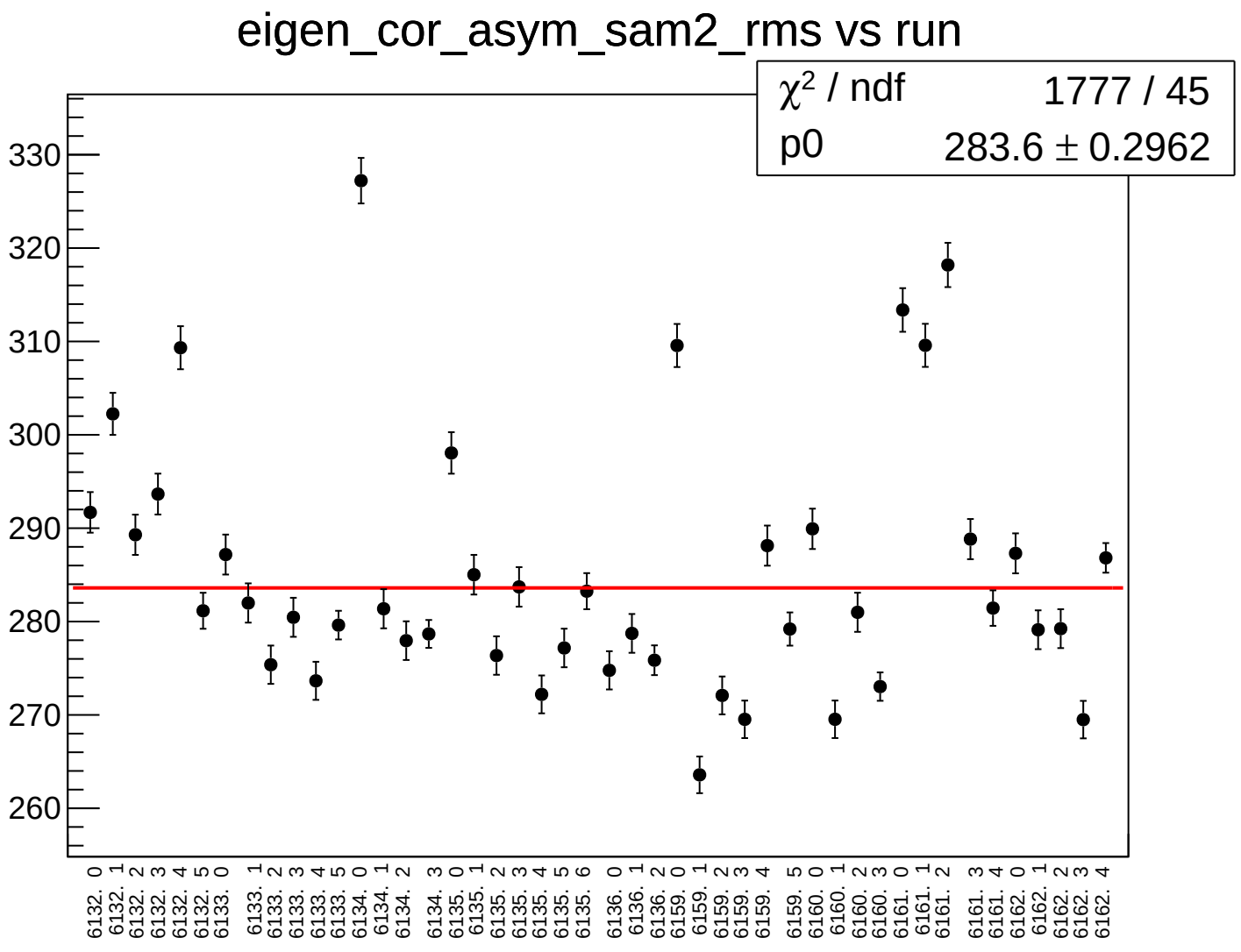
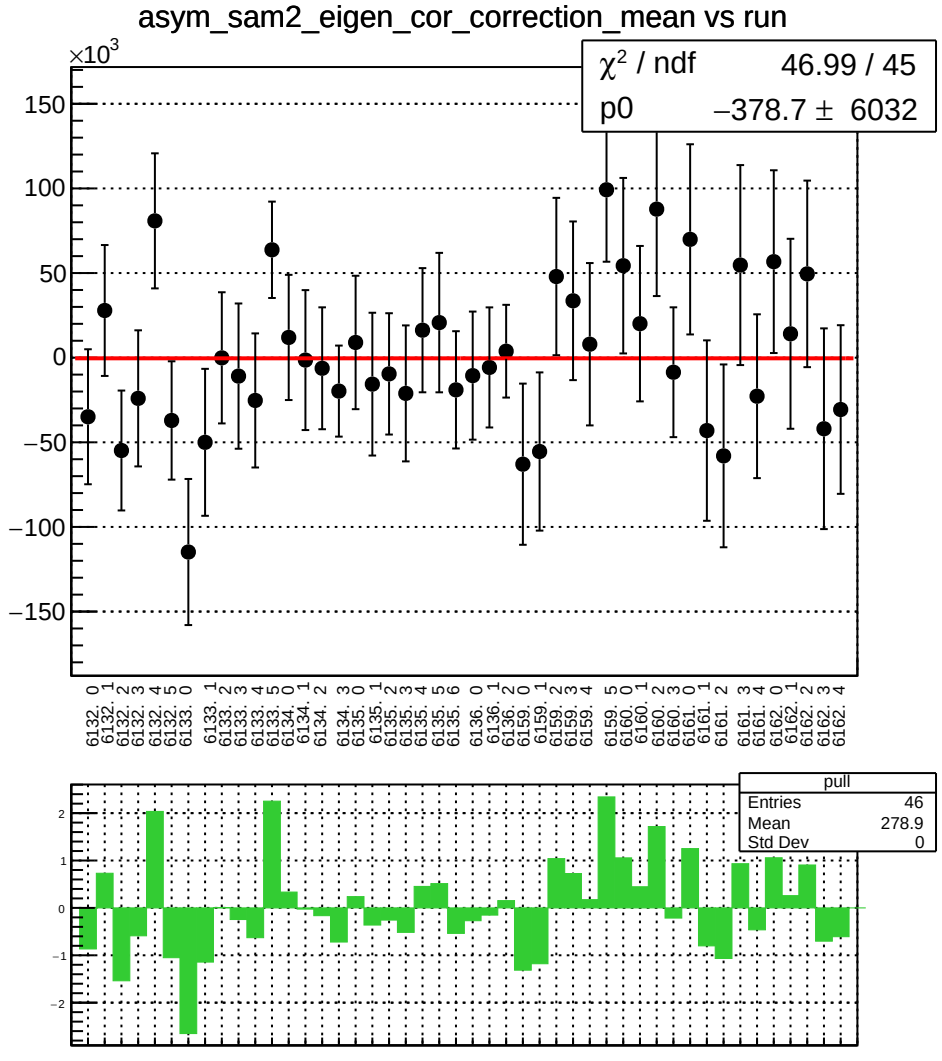
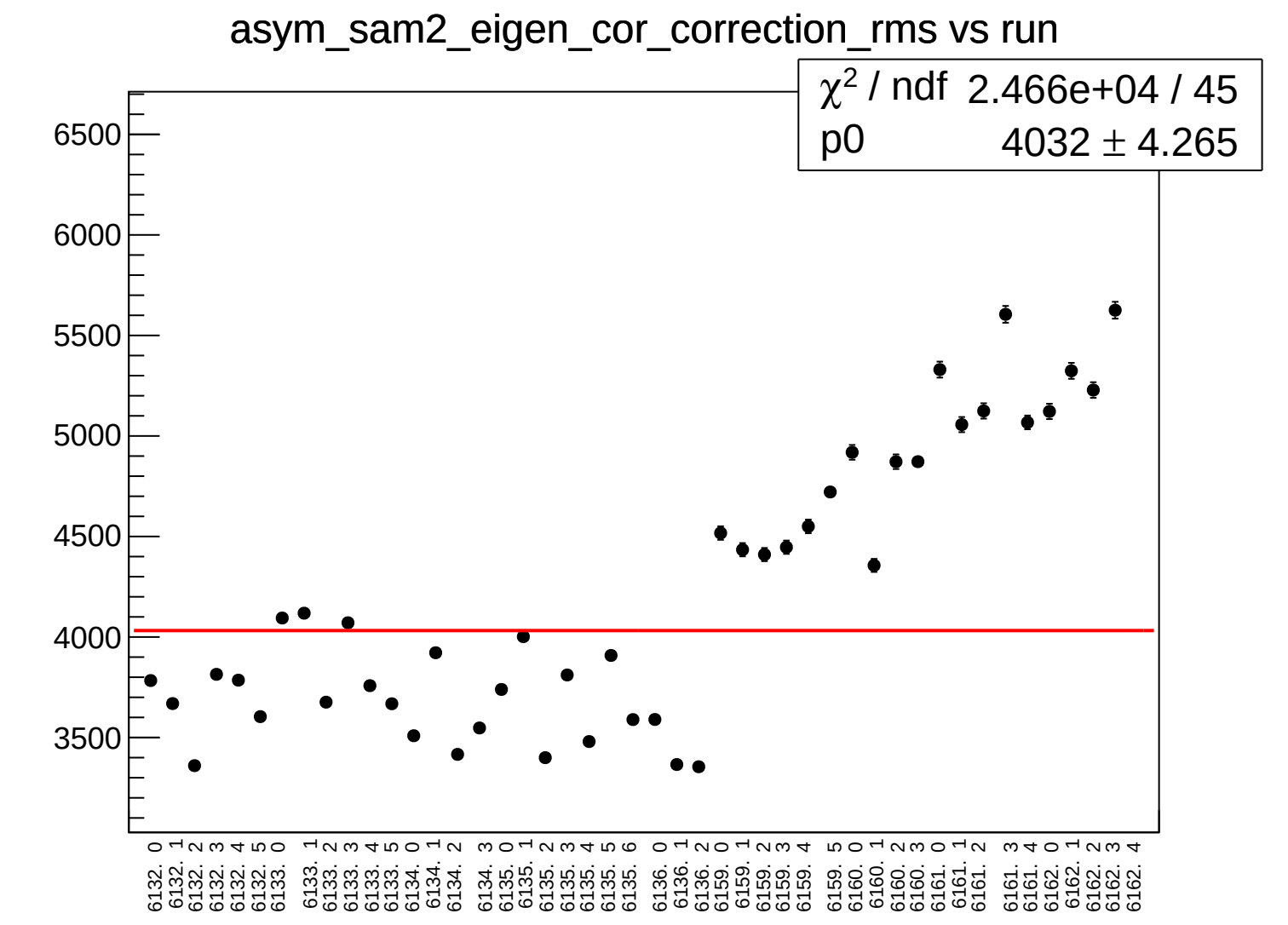
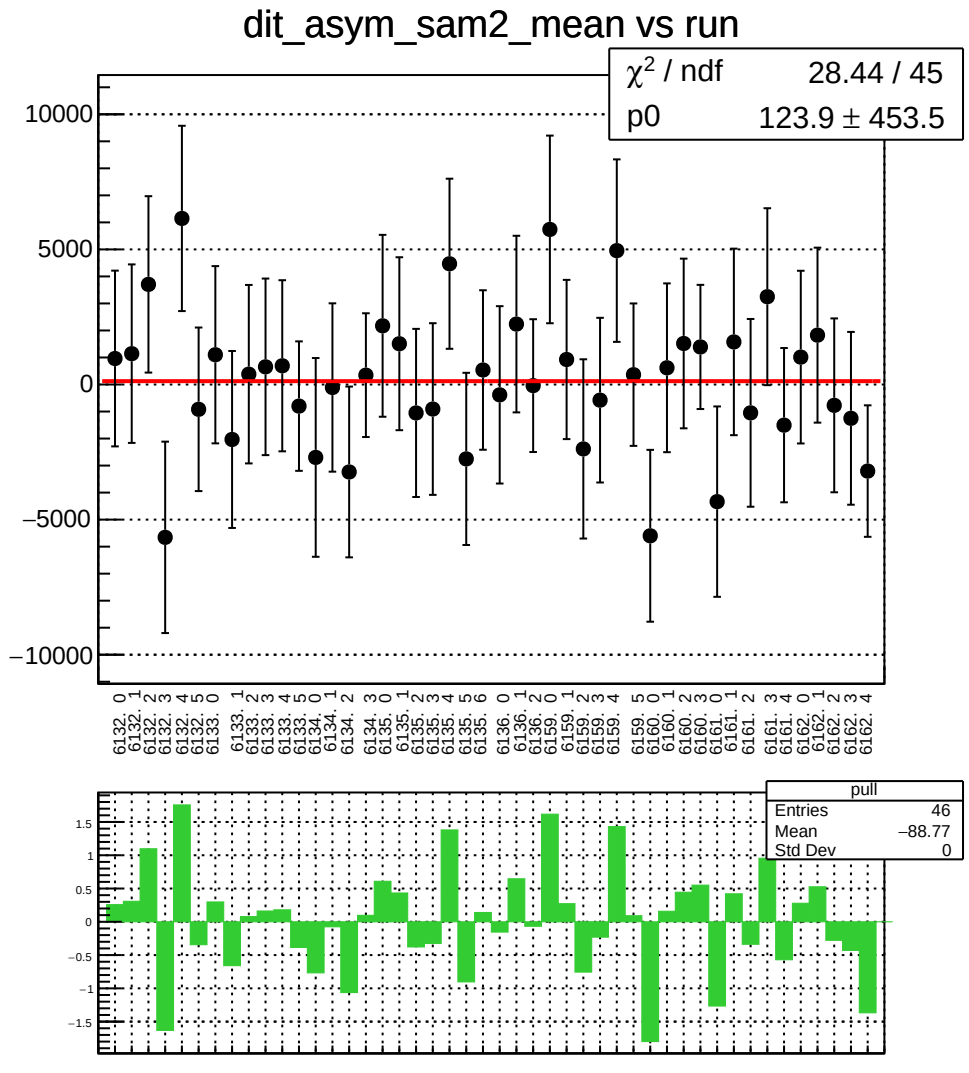
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1043
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

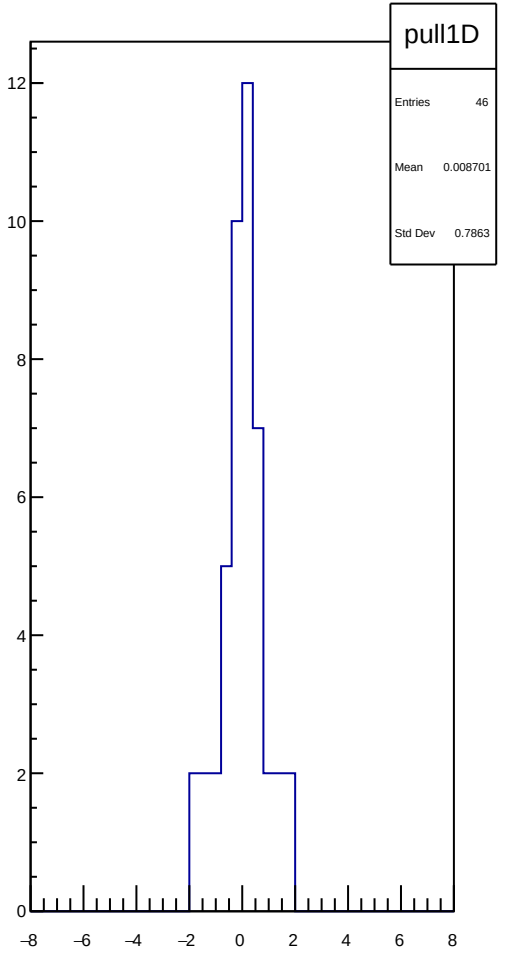

pull1D
Entries 46
Mean 0.001939
Std Dev 0.9032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

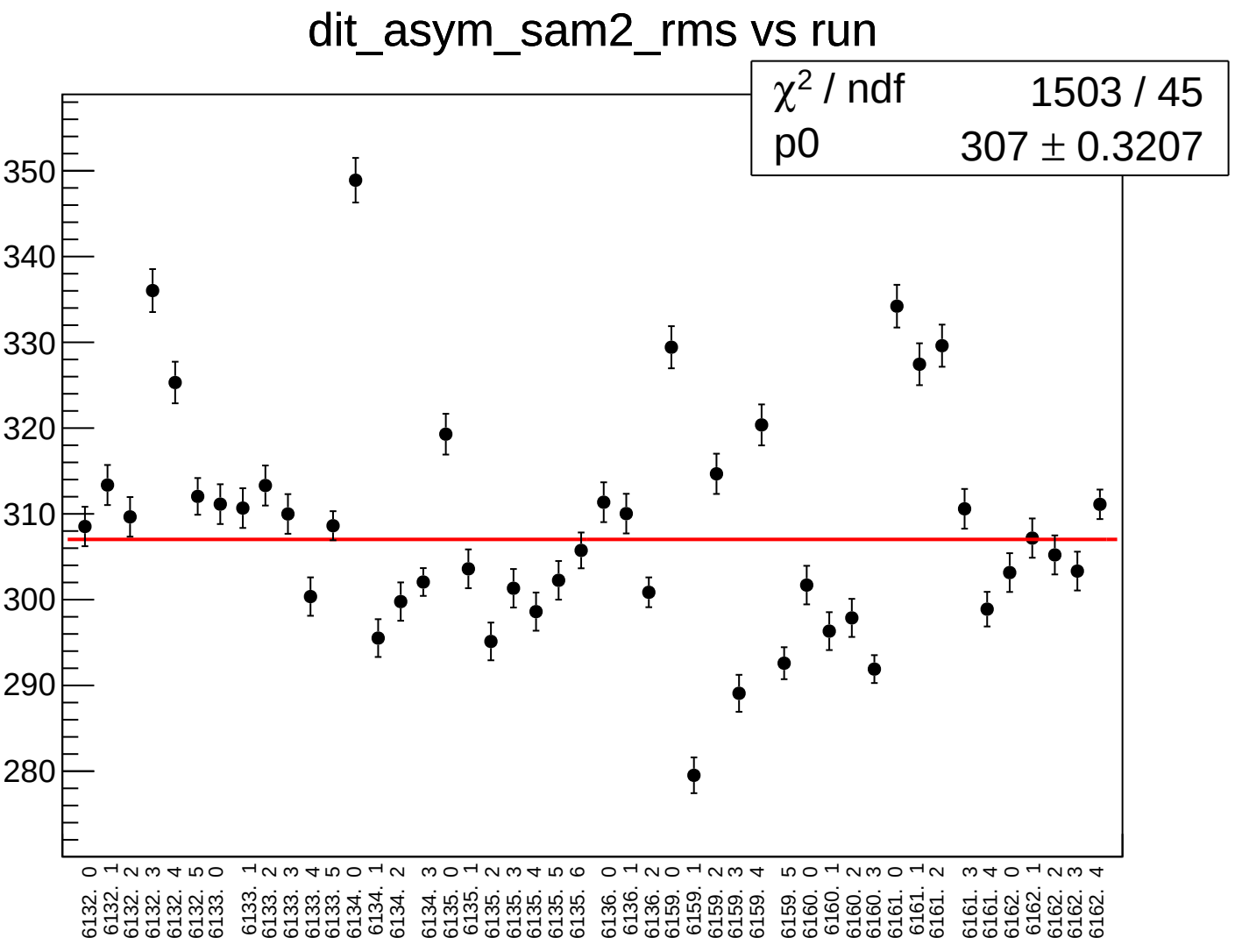

eigen_cor_asym_sam2_rms vs run
χ² / ndf 1777 / 45
p0 283.6 ± 0.2962
330
320
310
300
290
280
270
260
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

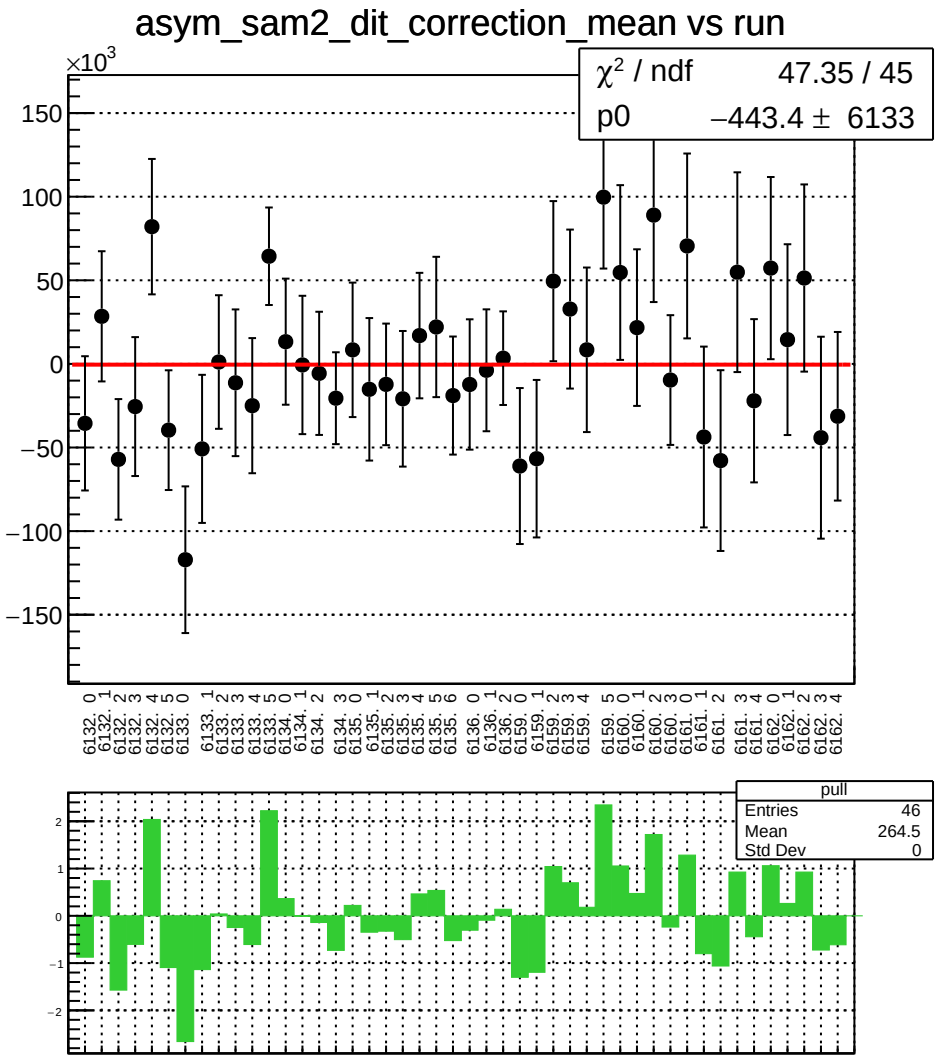

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 46.99 / 45
p0 −378.7 ± 6032
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 278.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.01218
Std Dev 1.011
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

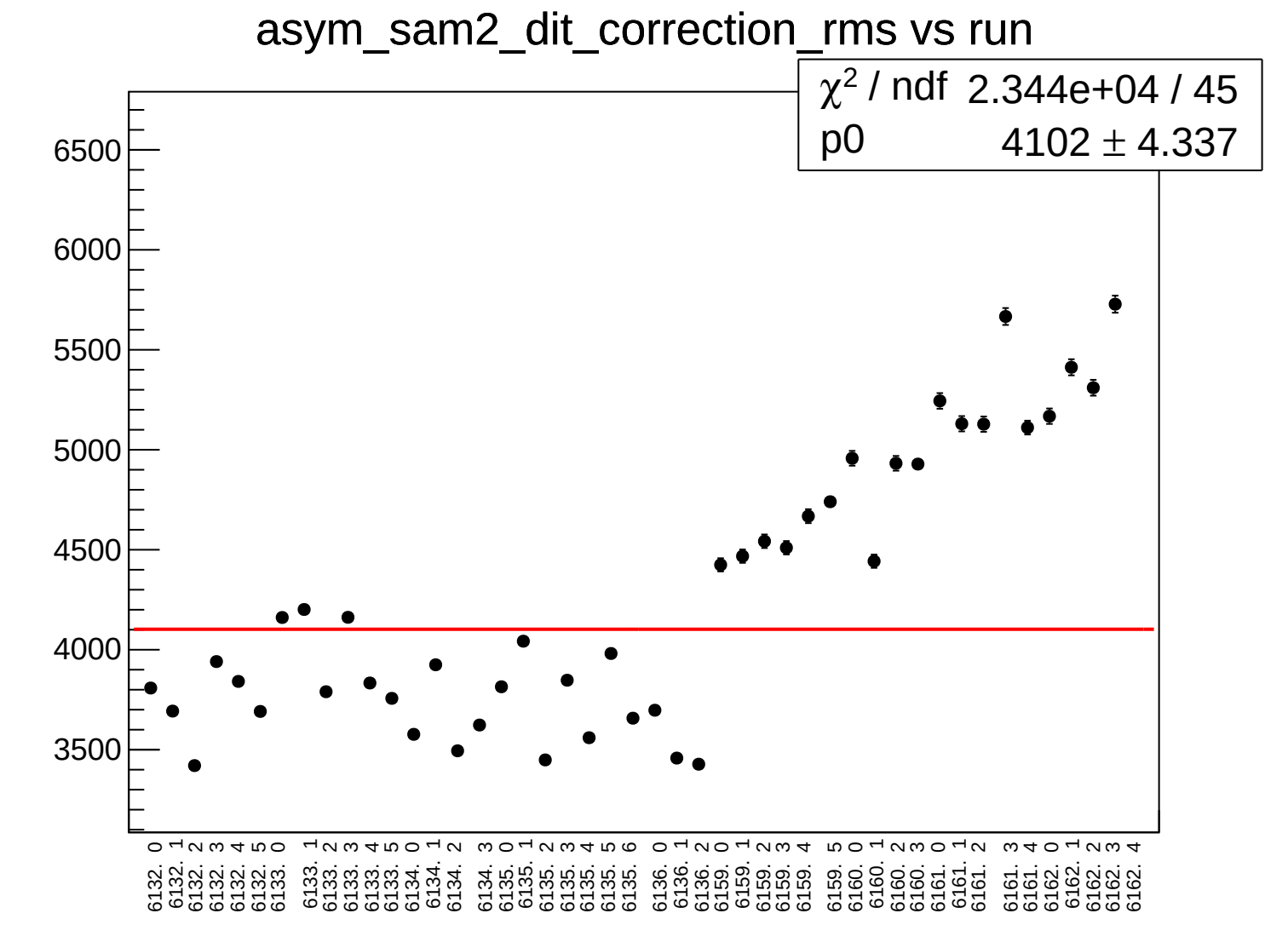

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 2.466e+04 / 45
p0 4032 ± 4.265
6500
6000
5500
5000
4500
4000
3500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

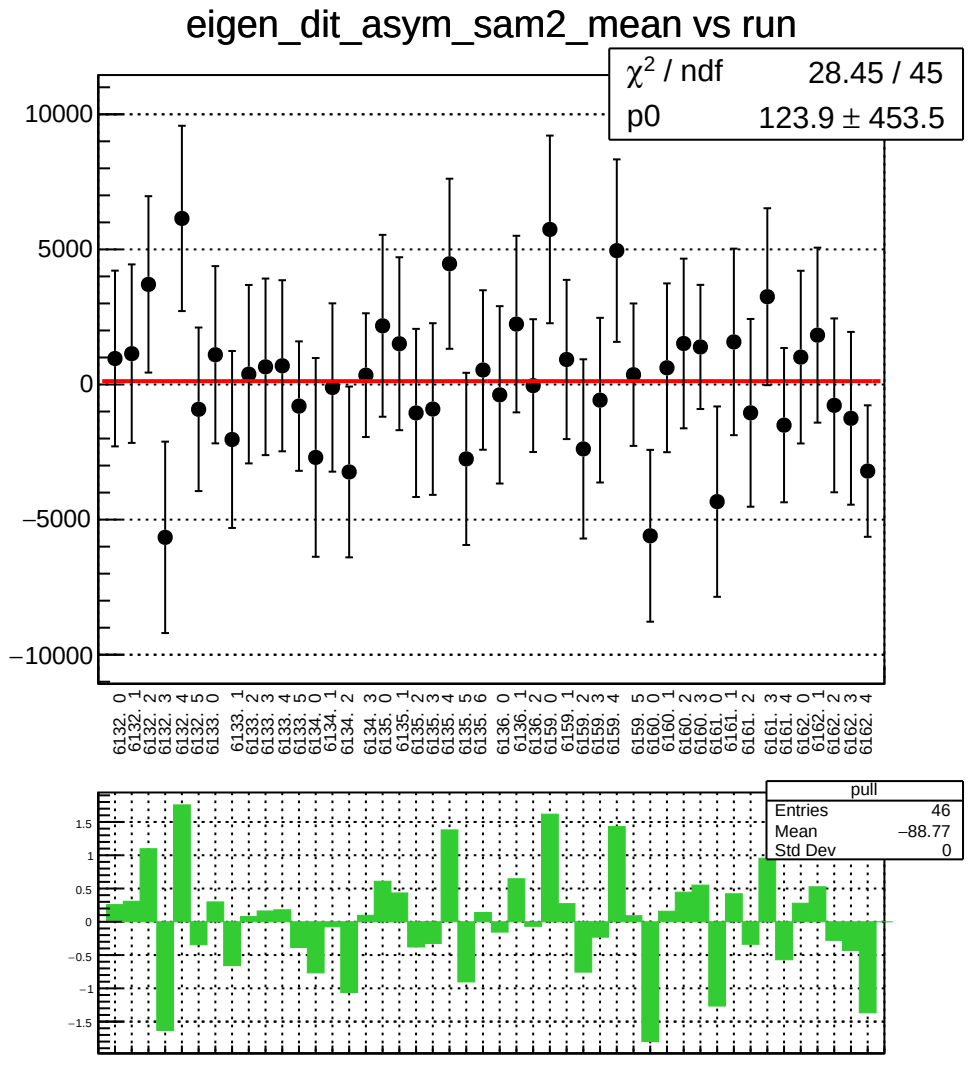

dit_asym_sam2_mean vs run
χ² / ndf 28.44 / 45
p0 123.9 ± 453.5
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −88.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

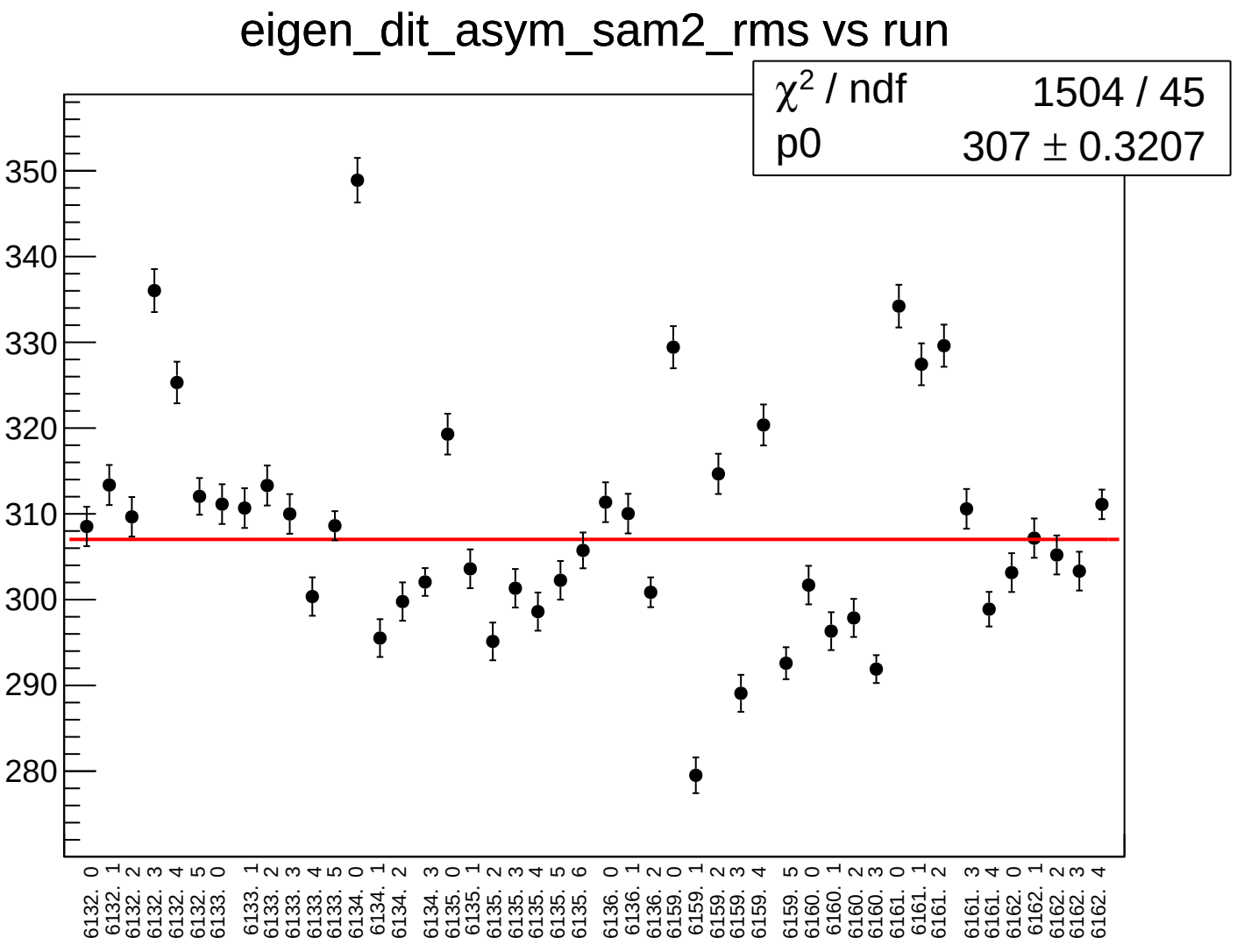

pull1D
Entries 46
Mean 0.008701
Std Dev 0.7863
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

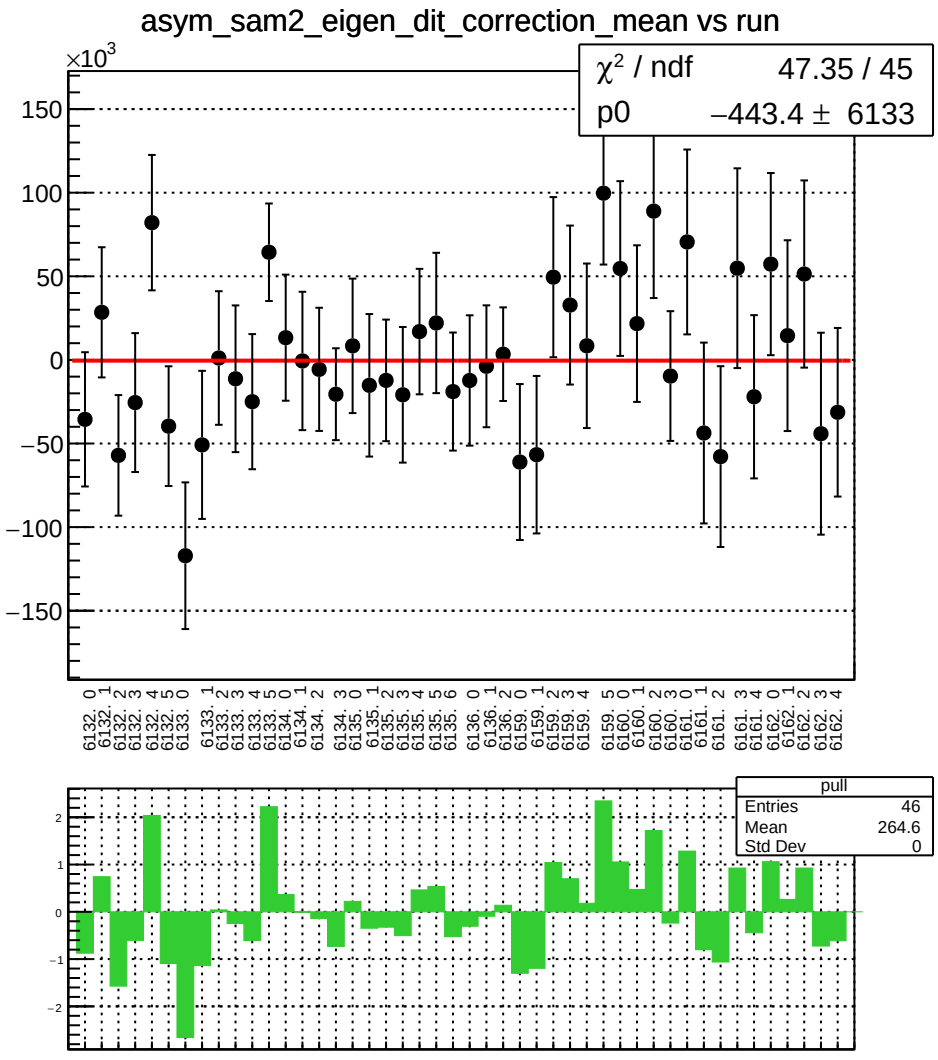

dit_asym_sam2_rms vs run
χ² / ndf 1503 / 45
p0 307 ± 0.3207
350
340
330
320
310
300
290
280
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

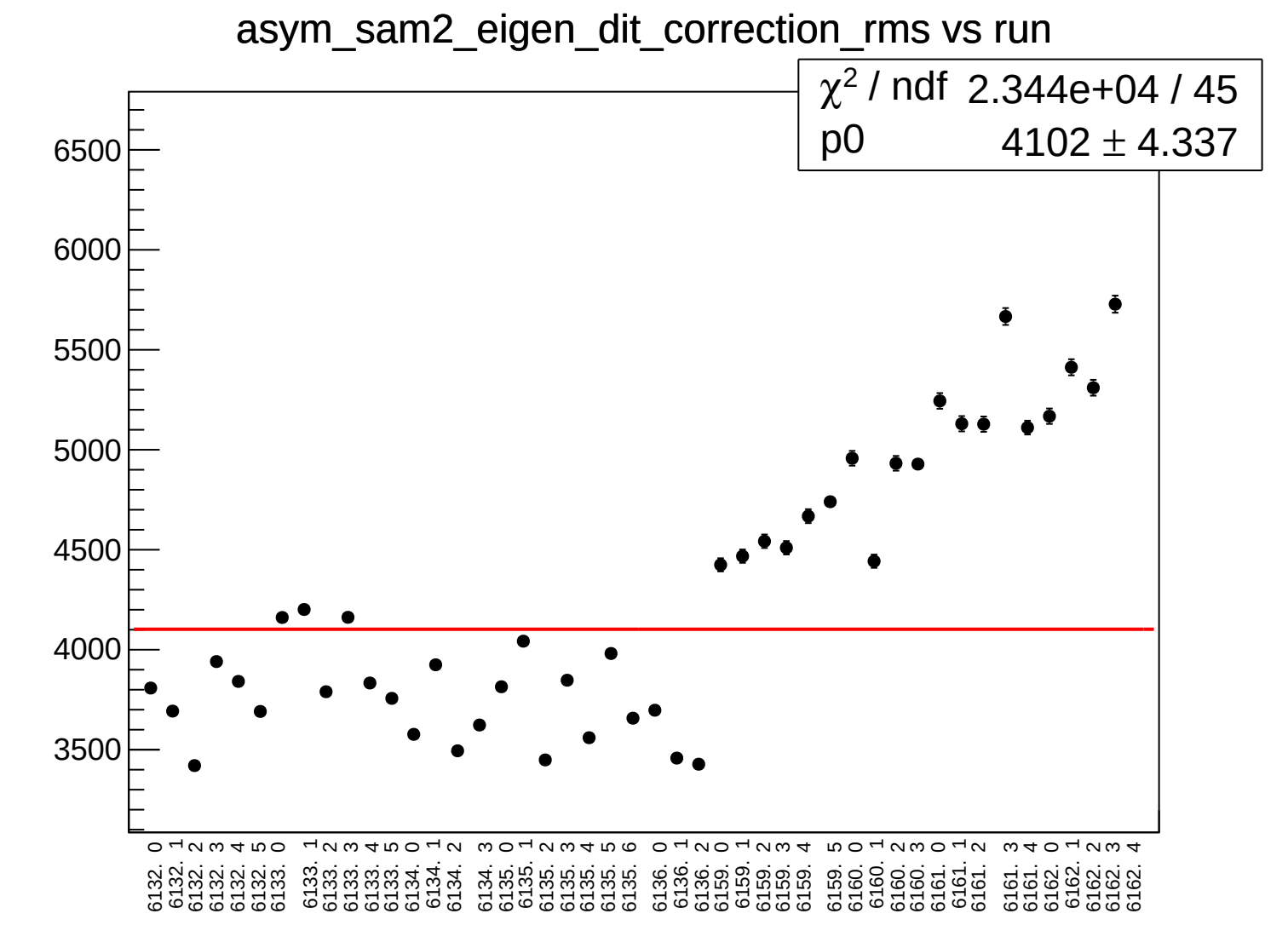

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 47.35 / 45
p0 −443.4 ± 6133
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 264.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.01305
Std Dev 1.014
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_dit_correction_rms vs run
χ² / ndf 2.344e+04 / 45
p0 4102 ± 4.337
6500
6000
5500
5000
4500
4000
3500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_dit_asym_sam2_mean vs run
χ² / ndf 28.45 / 45
p0 123.9 ± 453.5
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −88.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.008701
Std Dev 0.7863
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam2_rms vs run
χ² / ndf 1504 / 45
p0 307 ± 0.3207
350
340
330
320
310
300
290
280
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 47.35 / 45
p0 −443.4 ± 6133
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 264.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.01305
Std Dev 1.014
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 2.344e+04 / 45
p0 4102 ± 4.337
6500
6000
5500
5000
4500
4000
3500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
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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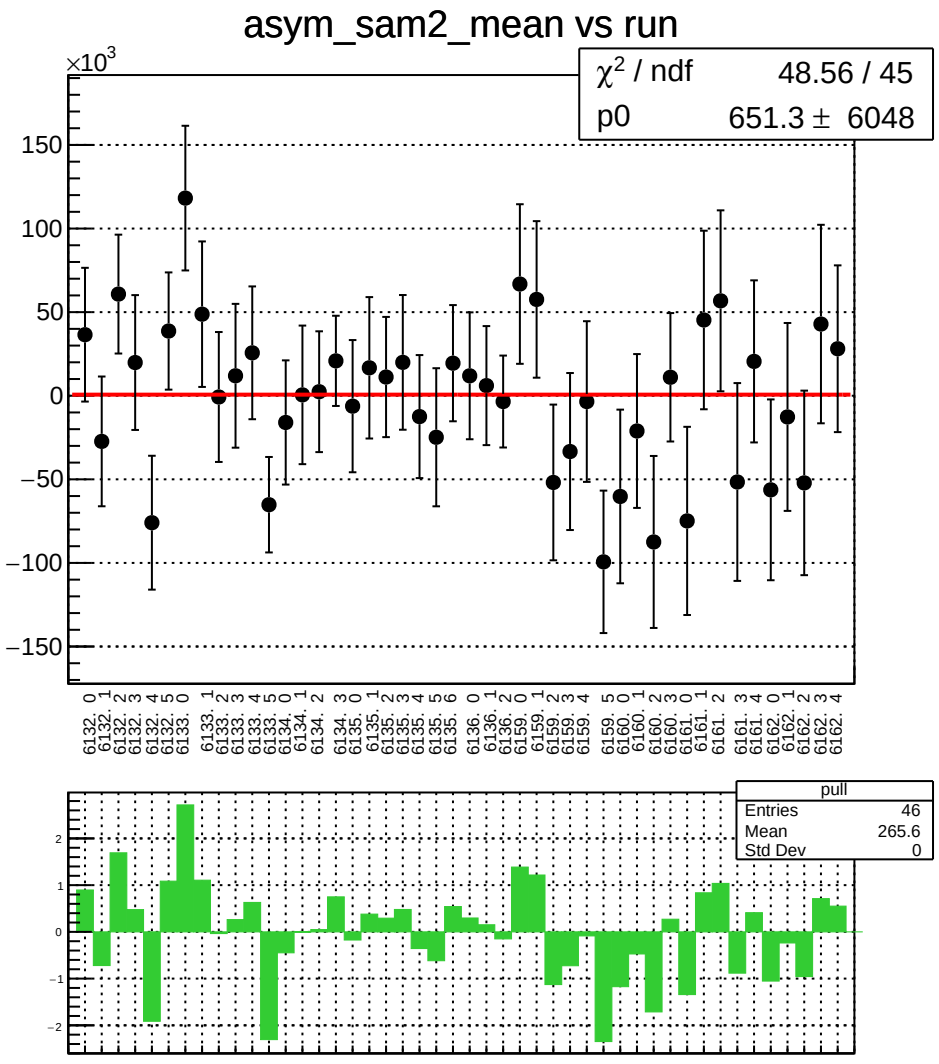
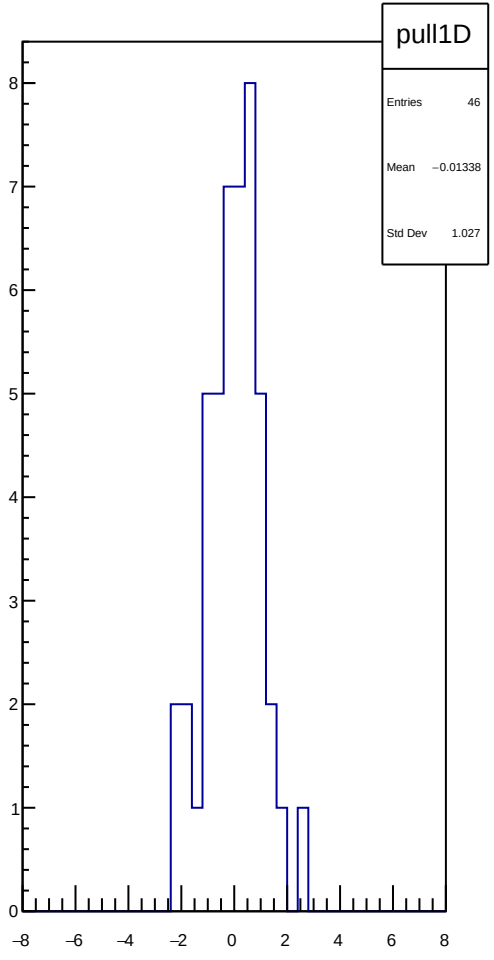
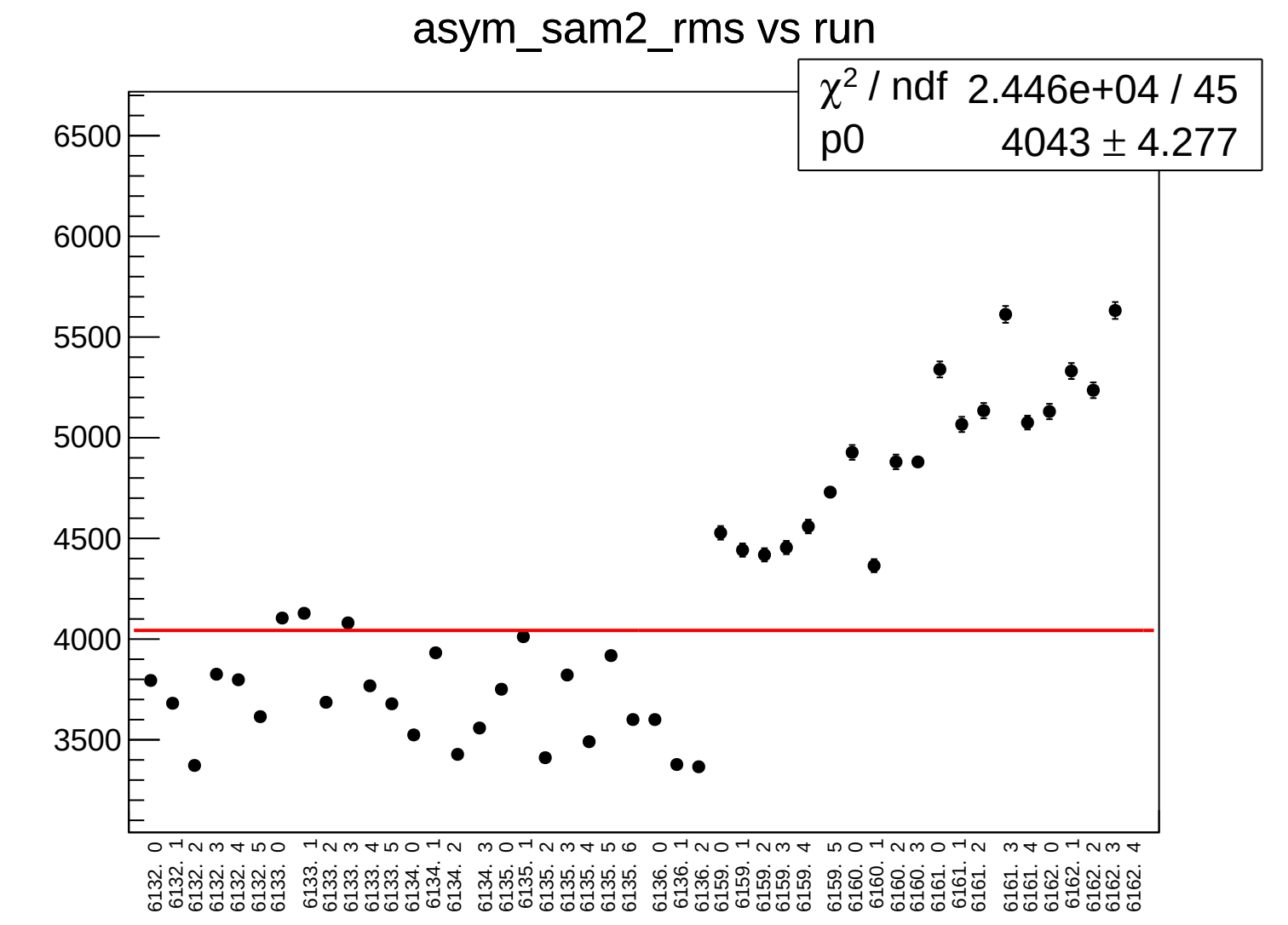
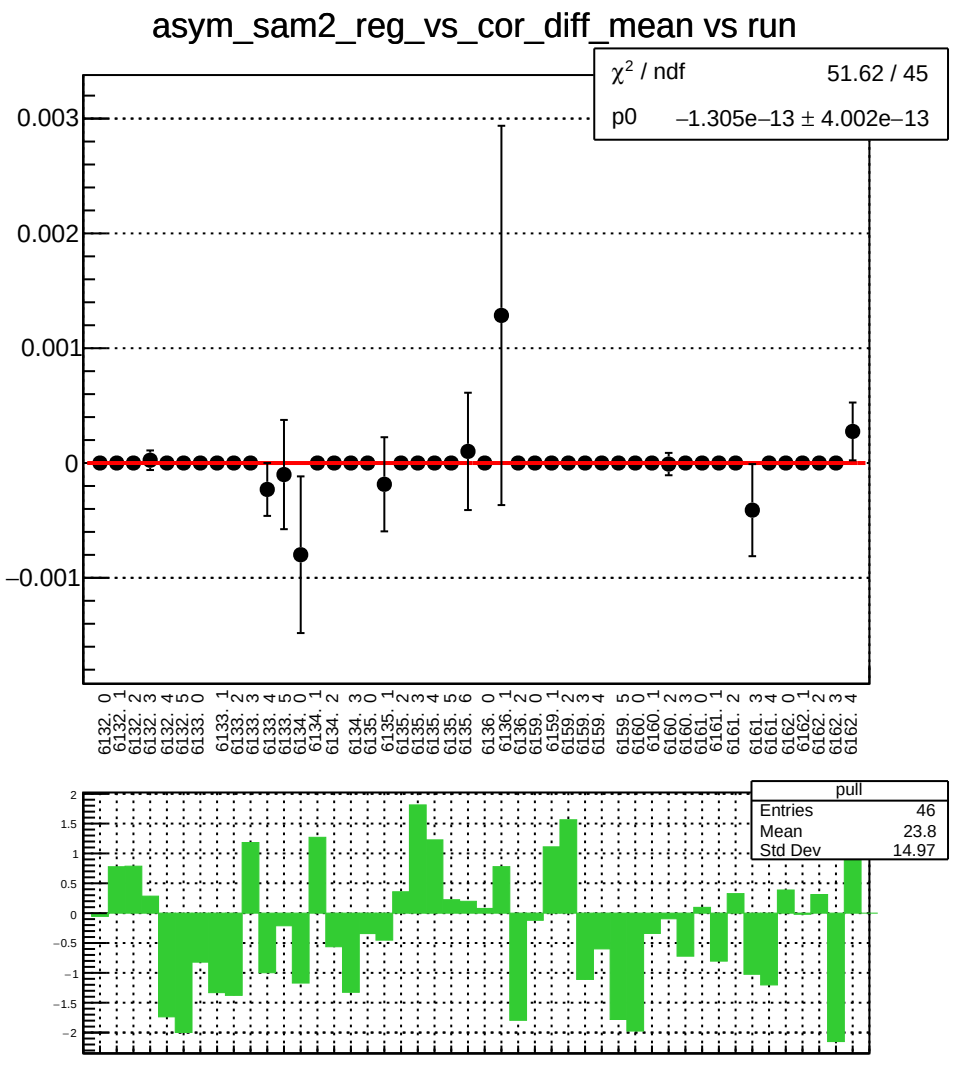
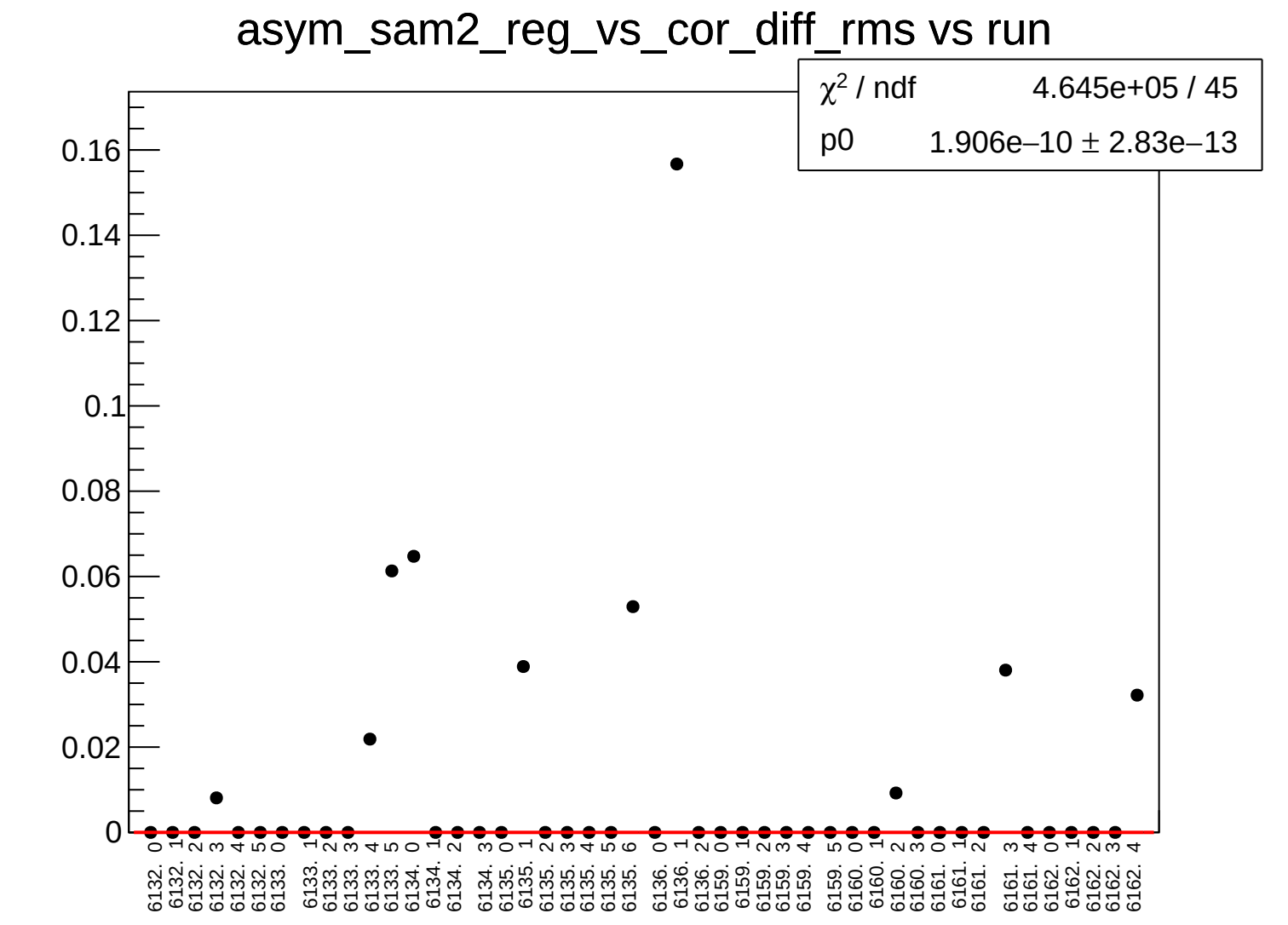
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam2_mean vs run
×10^3
χ^2 / ndf 48.56 / 45
p0 651.3 ± 6048
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 265.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.01338
Std Dev 1.027
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 2.446e+04 / 45
p0 4043 ± 4.277
6500
6000
5500
5000
4500
4000
3500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 51.62 / 45
p0 −1.305e−13 ± 4.002e−13
0.003
0.002
0.001
0
−0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 23.8
Std Dev 14.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.2661
Std Dev 1.025
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 4.645e+05 / 45
p0 1.906e−10 ± 2.83e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
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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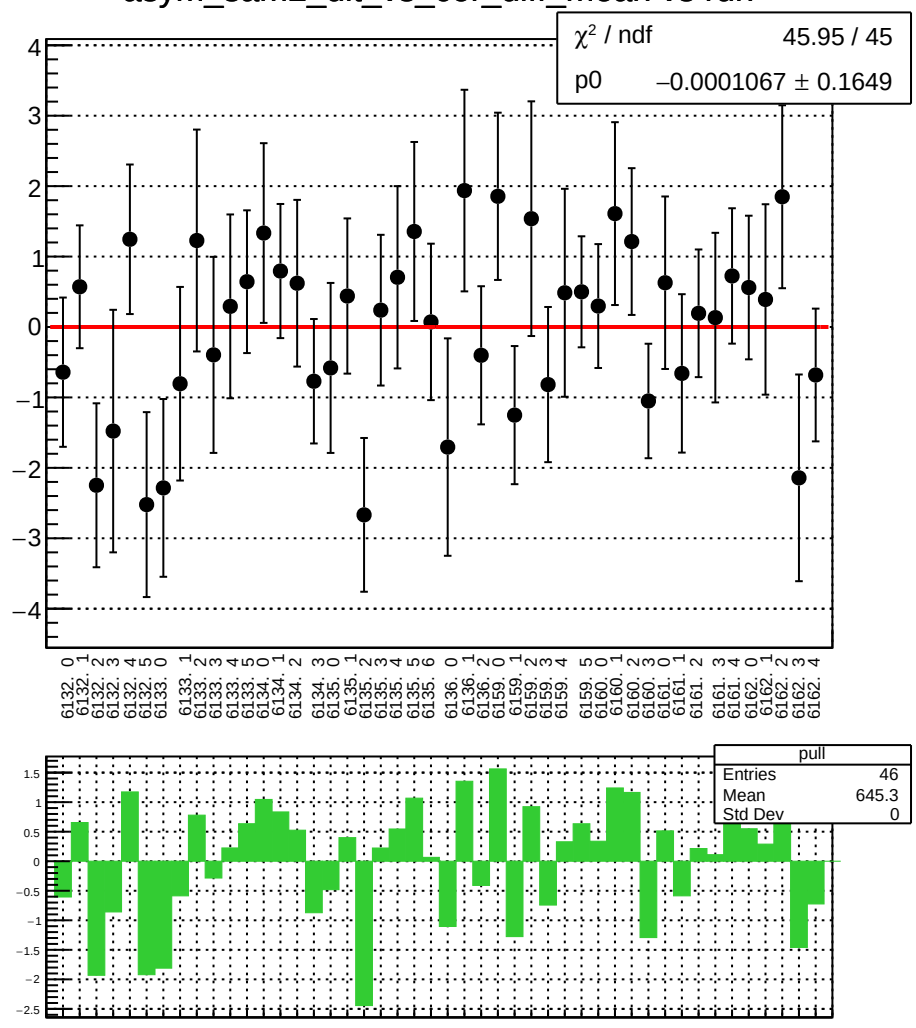
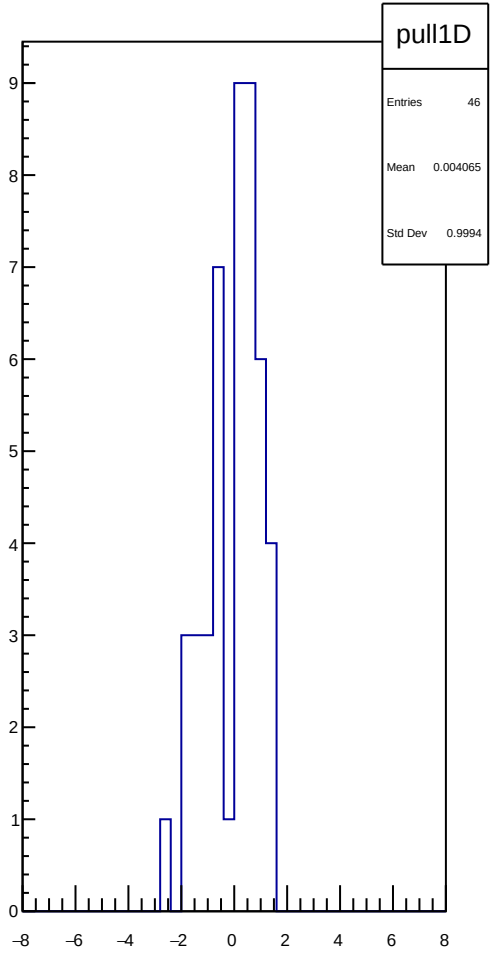
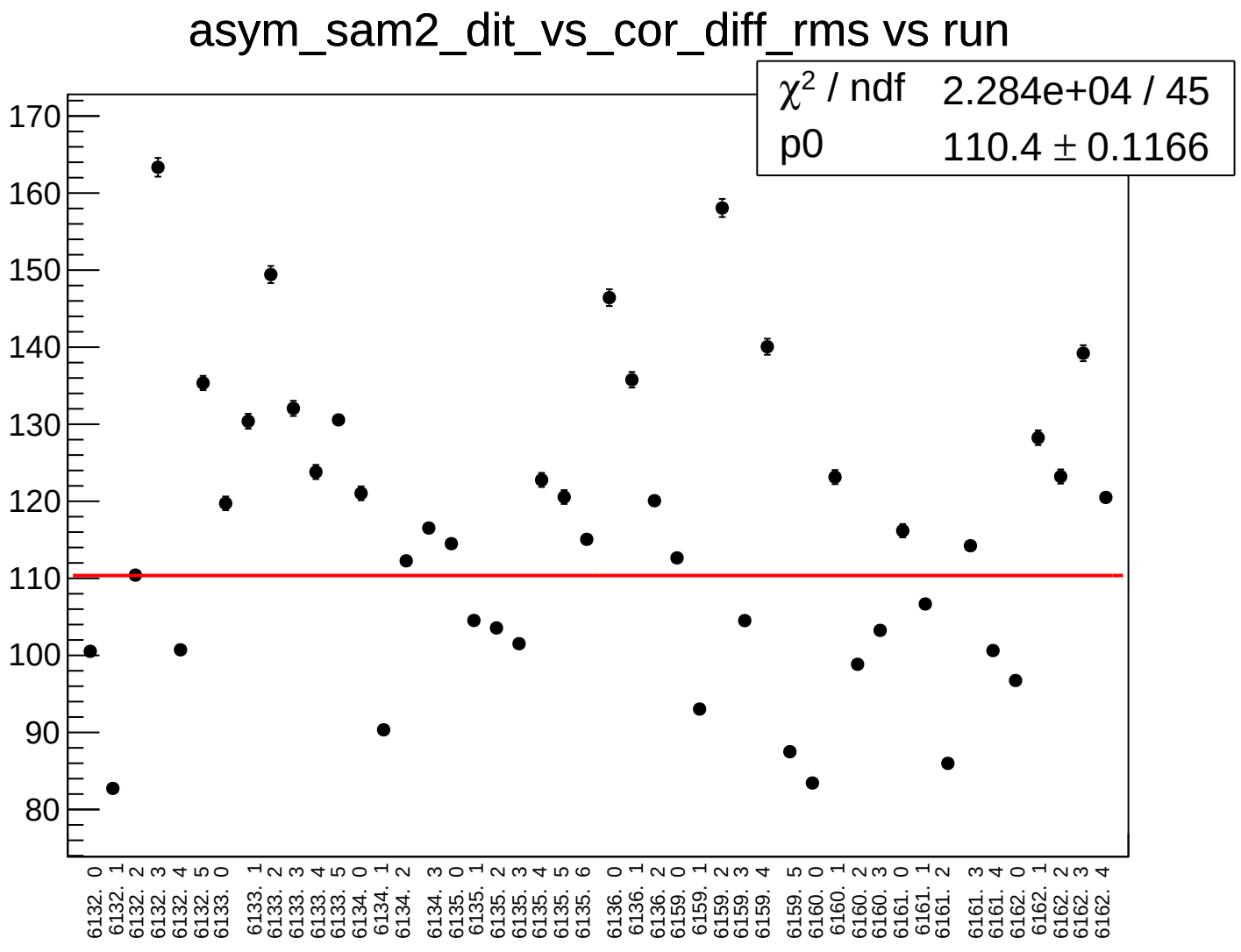
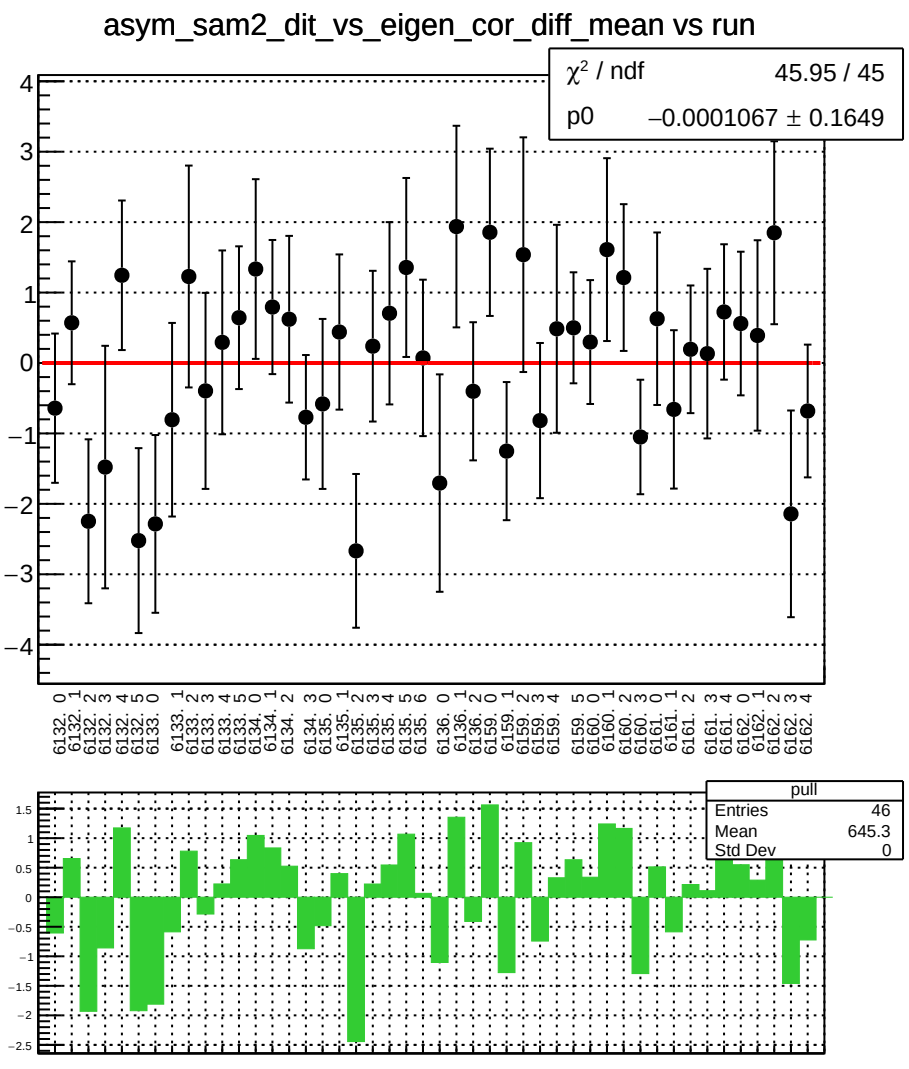
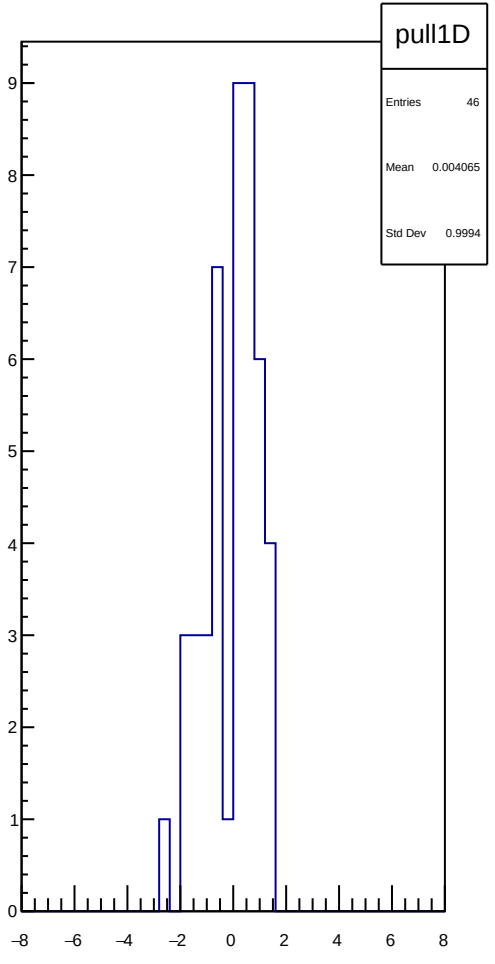
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

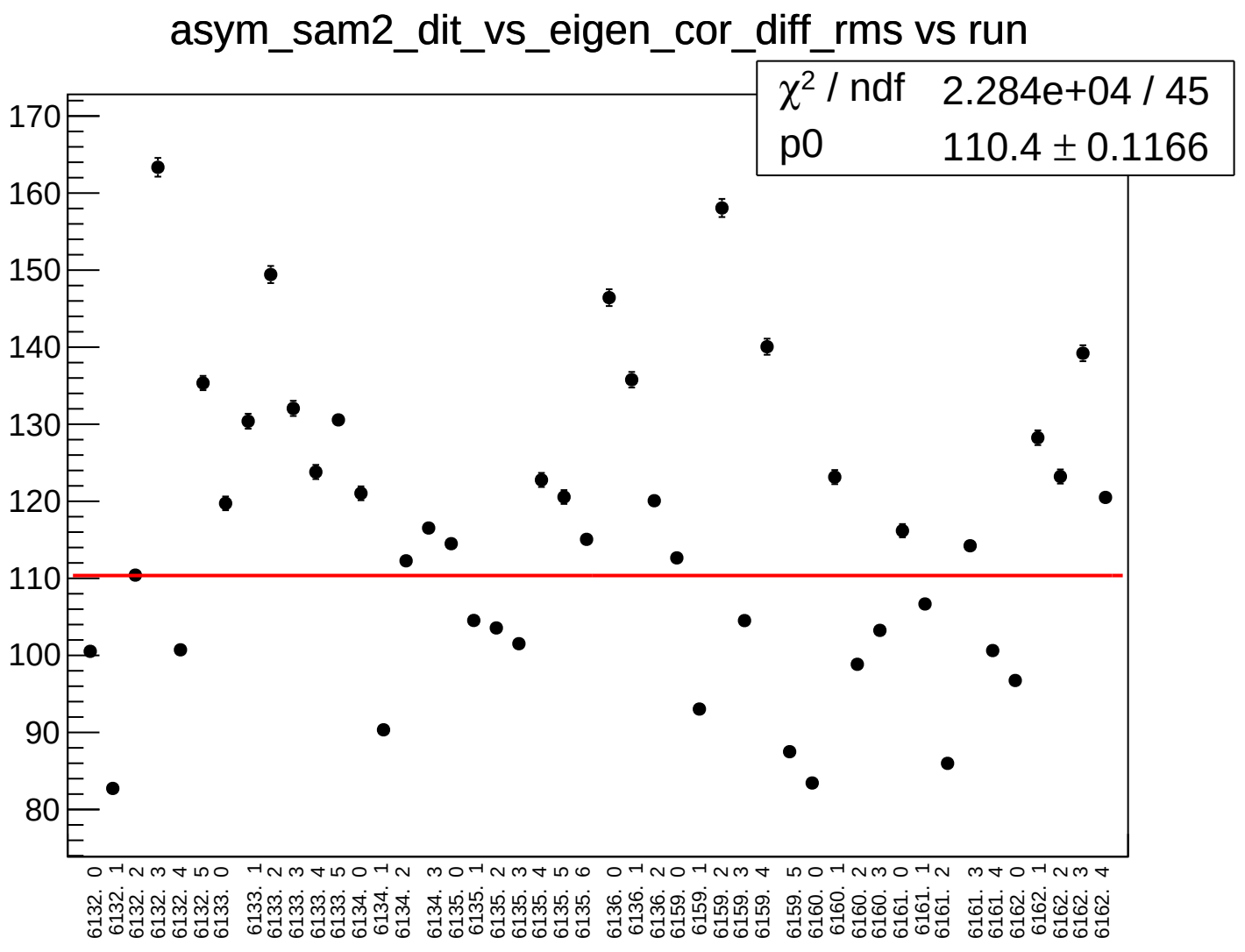

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 45.95 / 45
p0 −0.0001067 ± 0.1649
pull
Entries 46
Mean 645.3
Std Dev 0

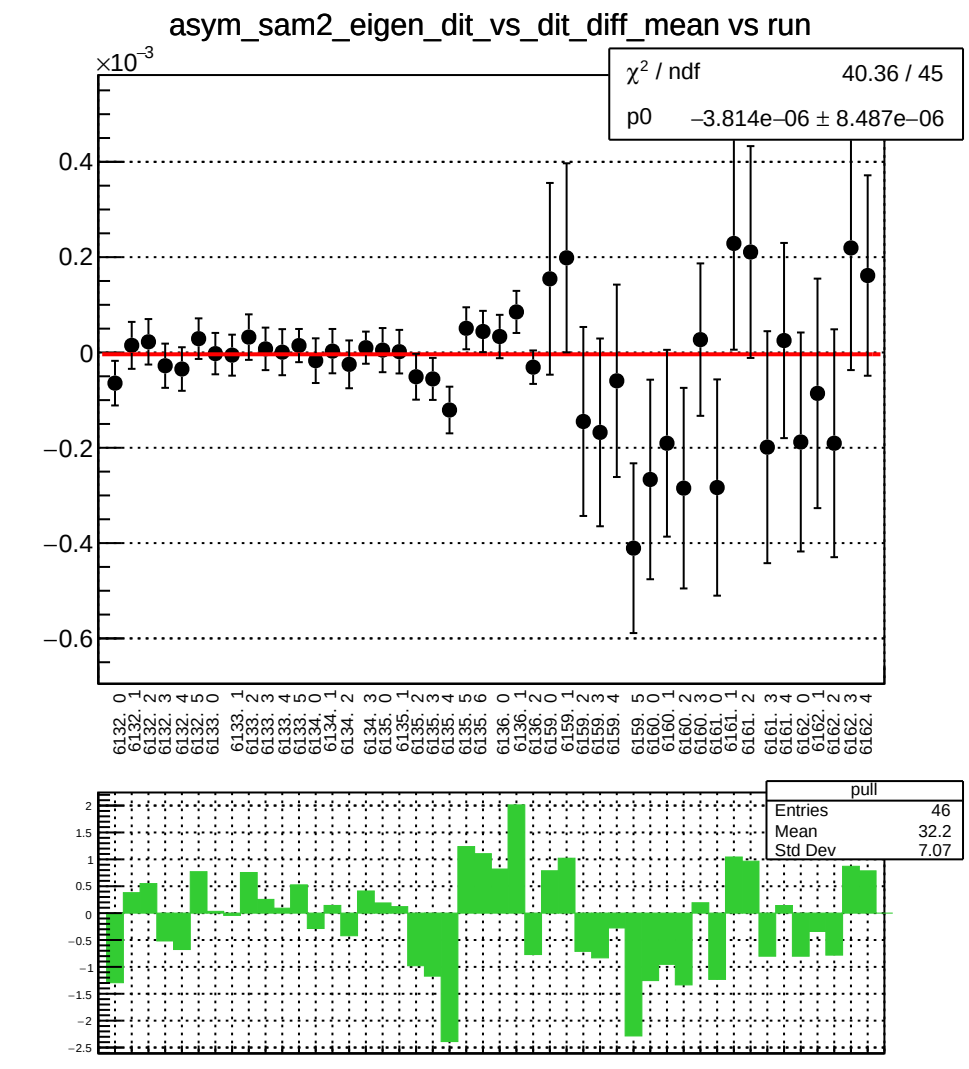

pull1D
Entries 46
Mean 0.004065
Std Dev 0.9994

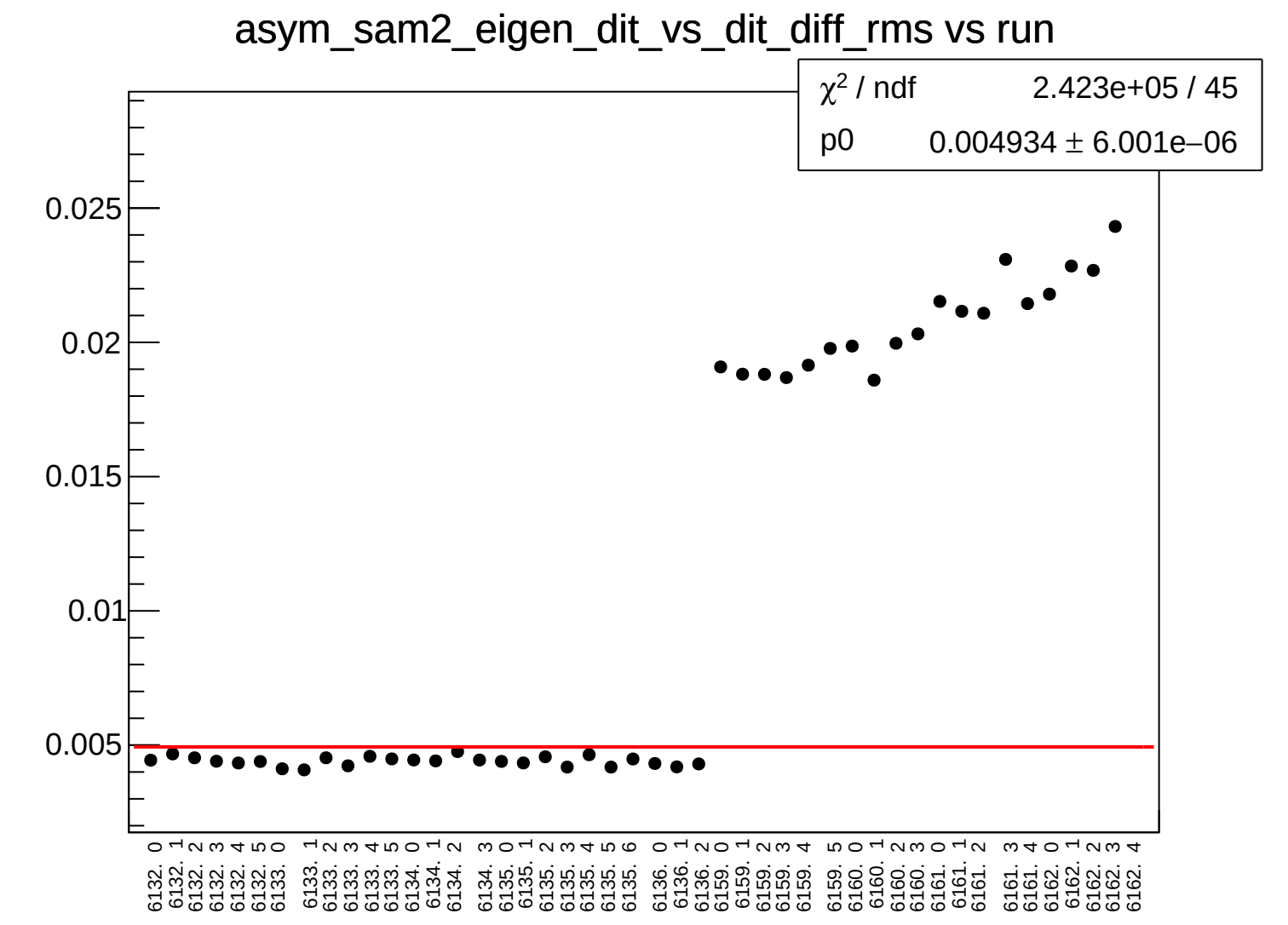

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.284e+04 / 45
p0 110.4 ± 0.1166
170
160
150
140
130
120
110
100
90
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

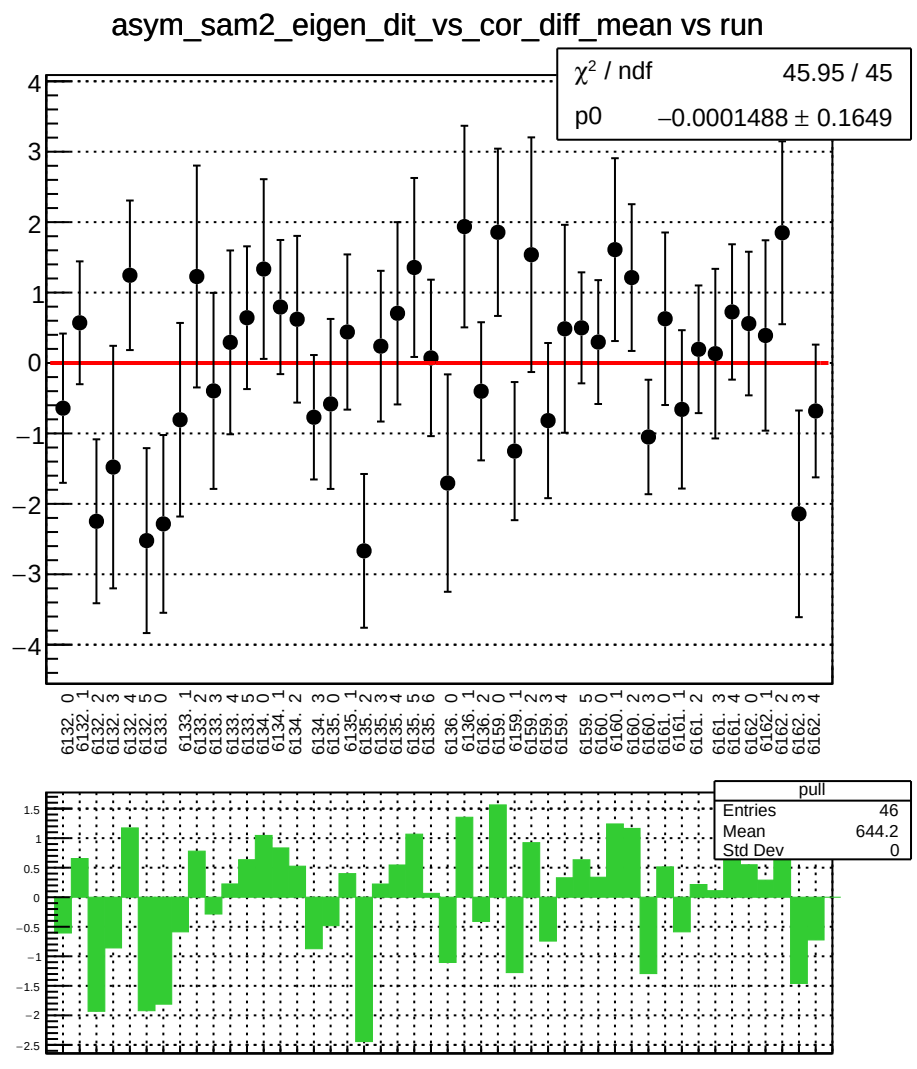

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.95 / 45
p0 −0.0001067 ± 0.1649
pull
Entries 46
Mean 645.3
Std Dev 0

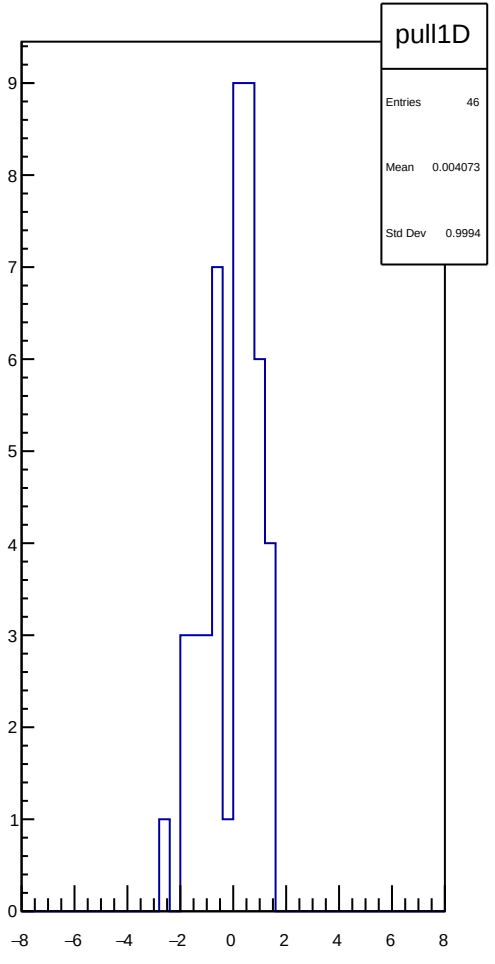

pull1D
Entries 46
Mean 0.004065
Std Dev 0.9994

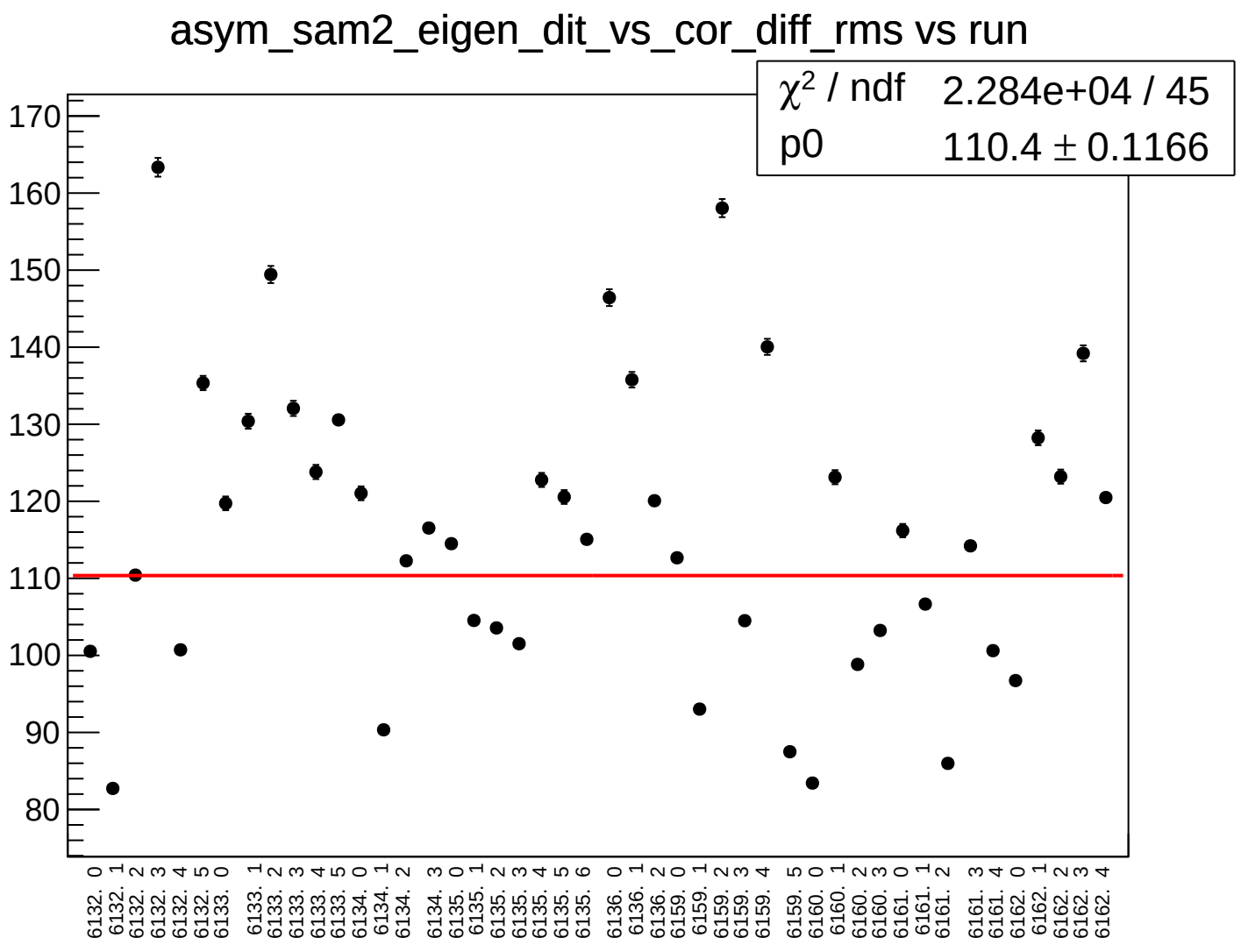

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.284e+04 / 45
p0 110.4 ± 0.1166
170
160
150
140
130
120
110
100
90
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

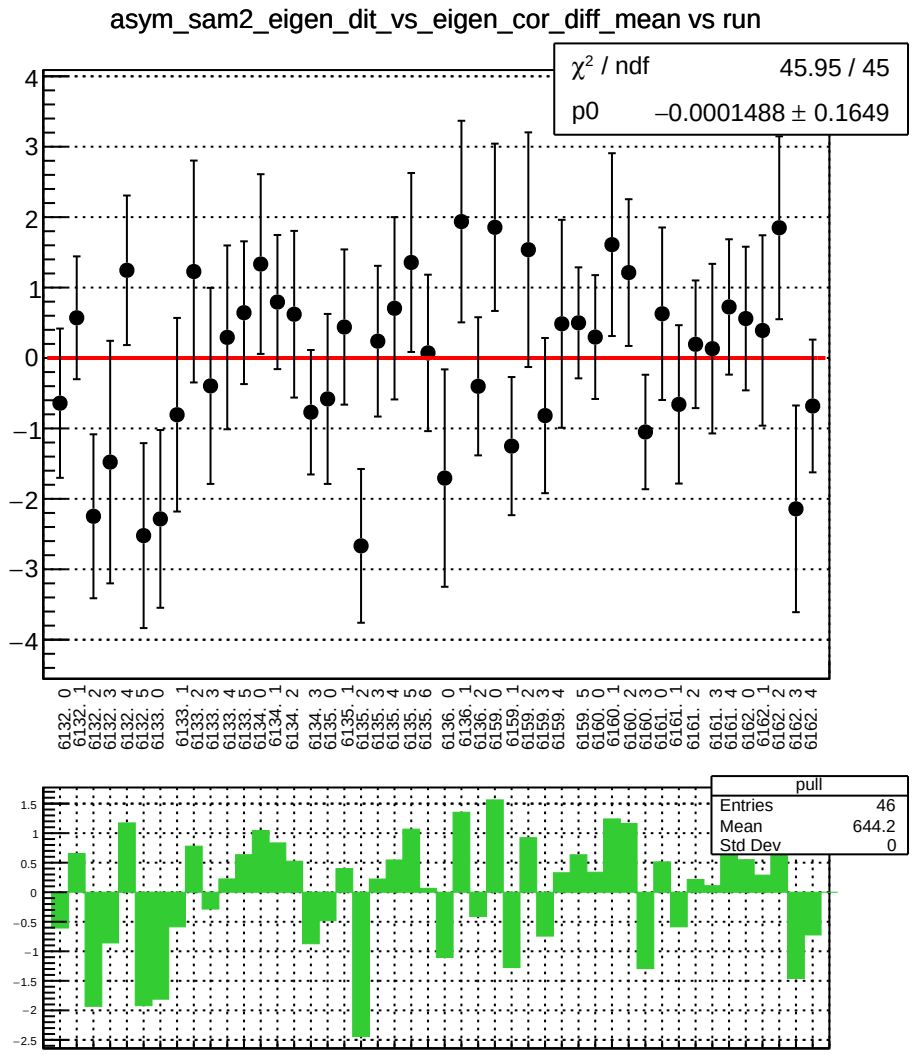

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 40.36 / 45
p0 −3.814e−06 ± 8.487e−06
0.4
0.2
0
−0.2
−0.4
−0.6
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 32.2
Std Dev 7.07
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.1075
Std Dev 0.9305
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

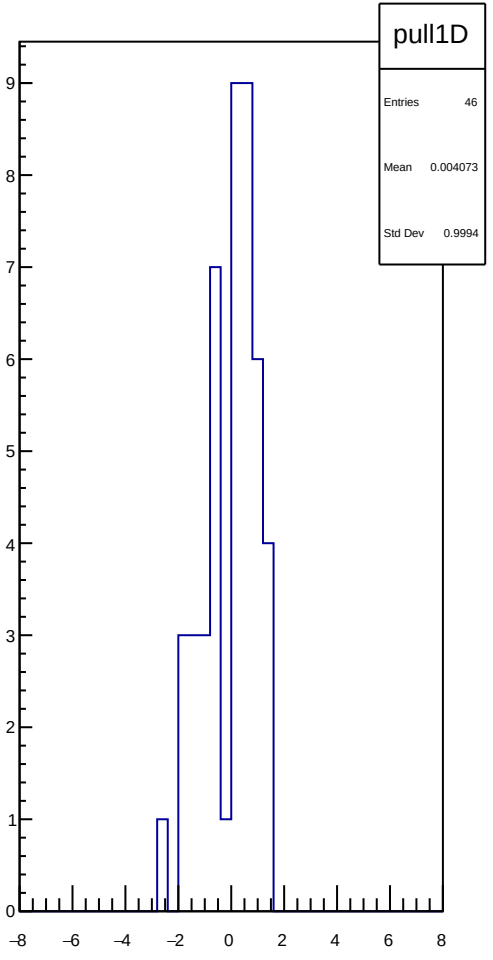

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.423e+05 / 45
p0 0.004934 ± 6.001e−06
0.025
0.02
0.015
0.01
0.005
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

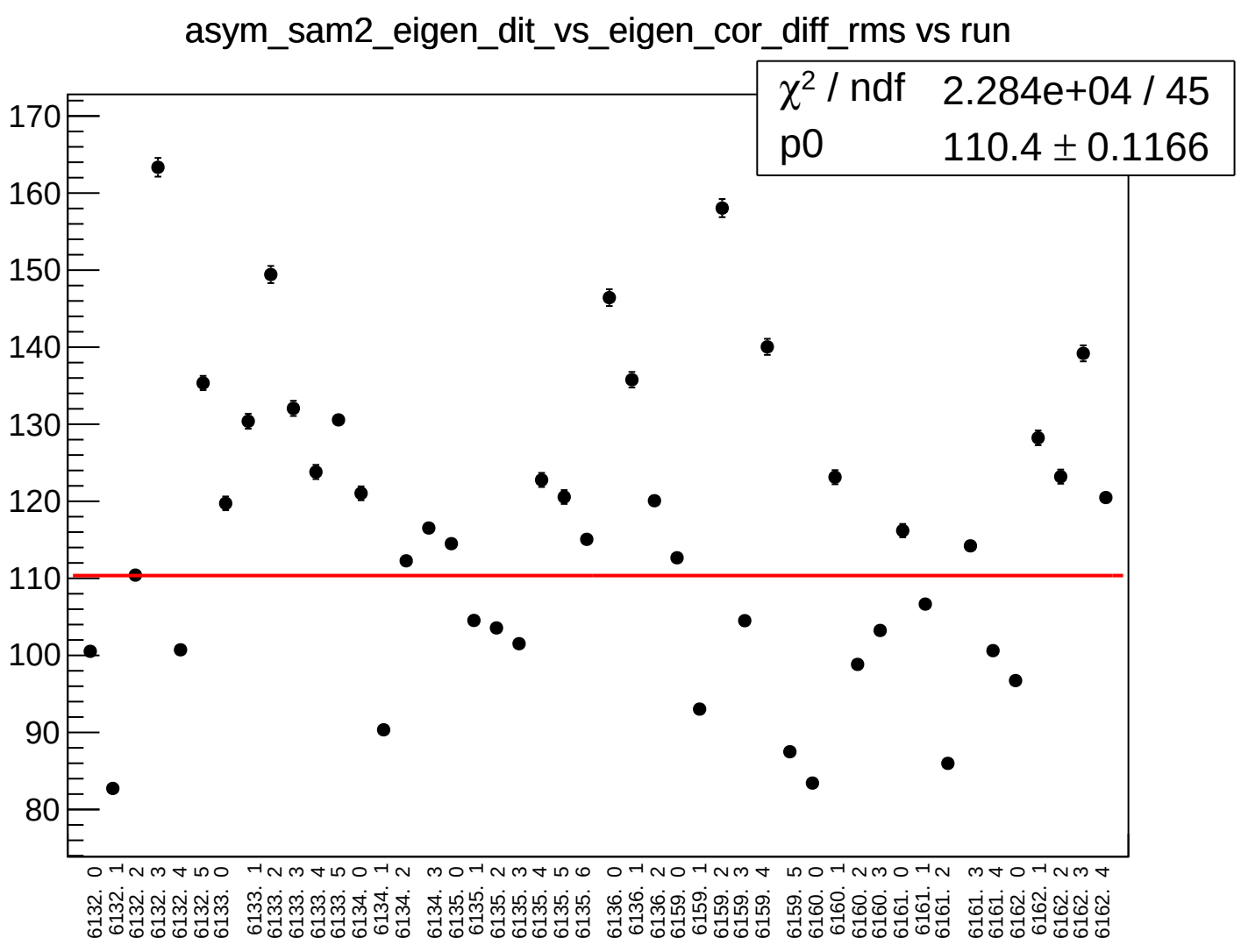

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 45.95 / 45
p0 −0.0001488 ± 0.1649
pull
Entries 46
Mean 644.2
Std Dev 0

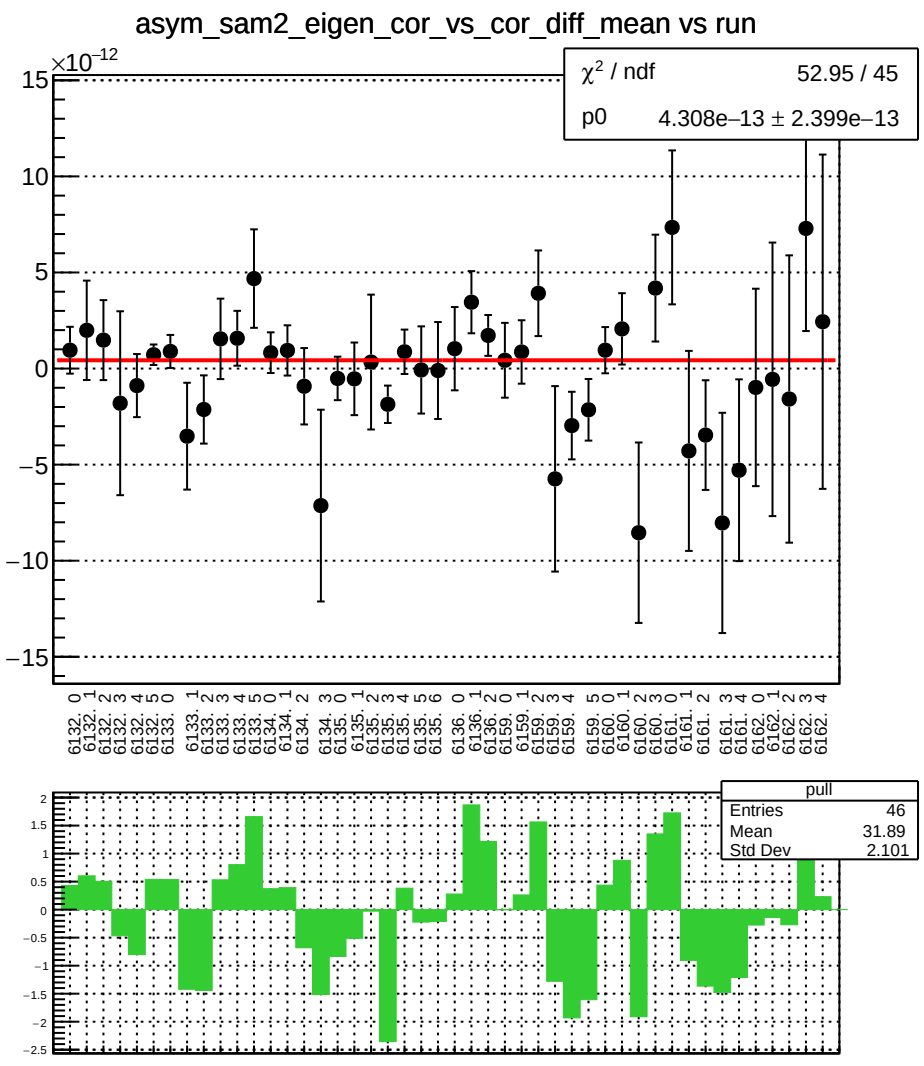

pull1D
Entries 46
Mean 0.004073
Std Dev 0.9994

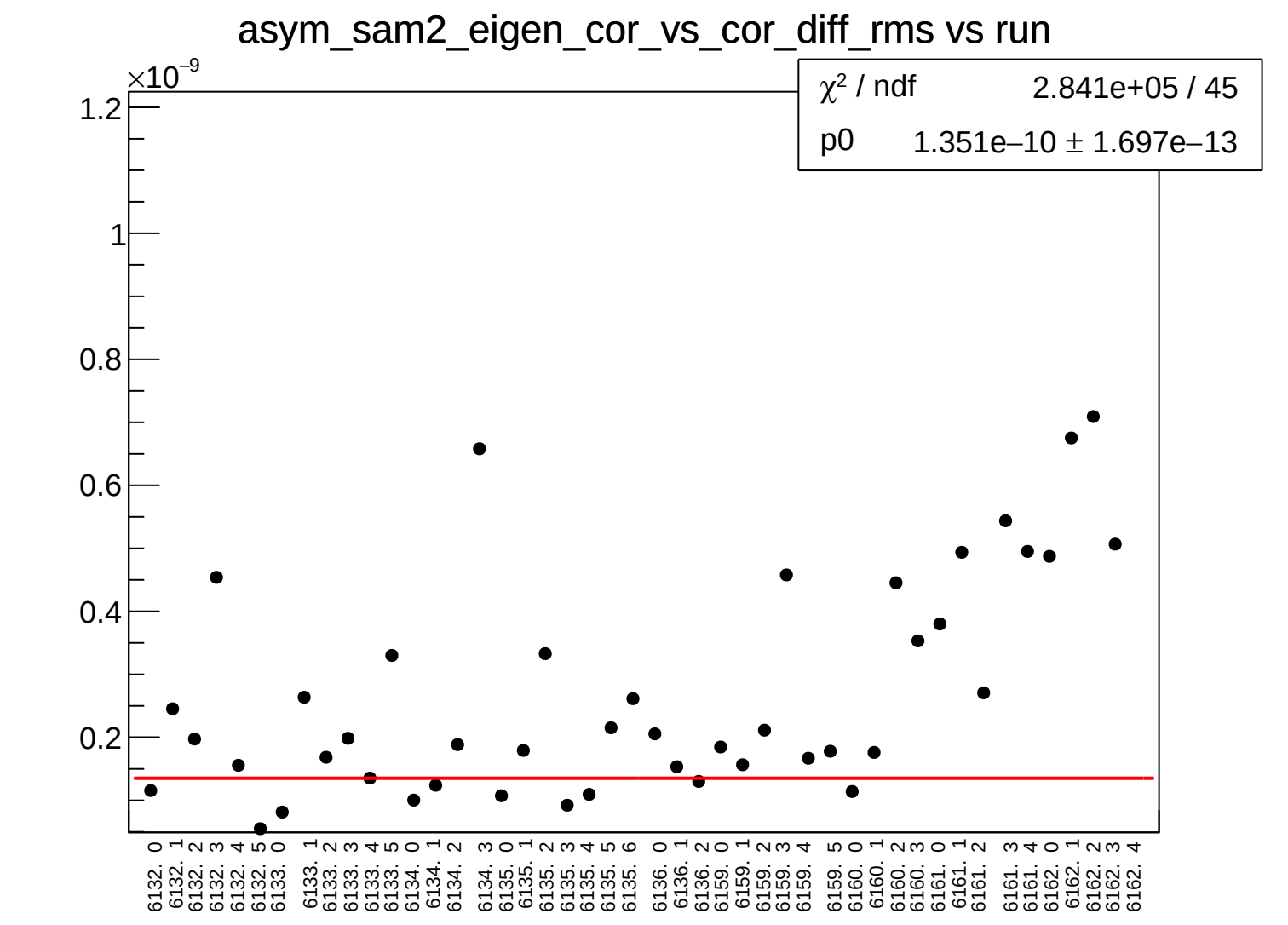

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.284e+04 / 45
p0 110.4 ± 0.1166
170
160
150
140
130
120
110
100
90
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

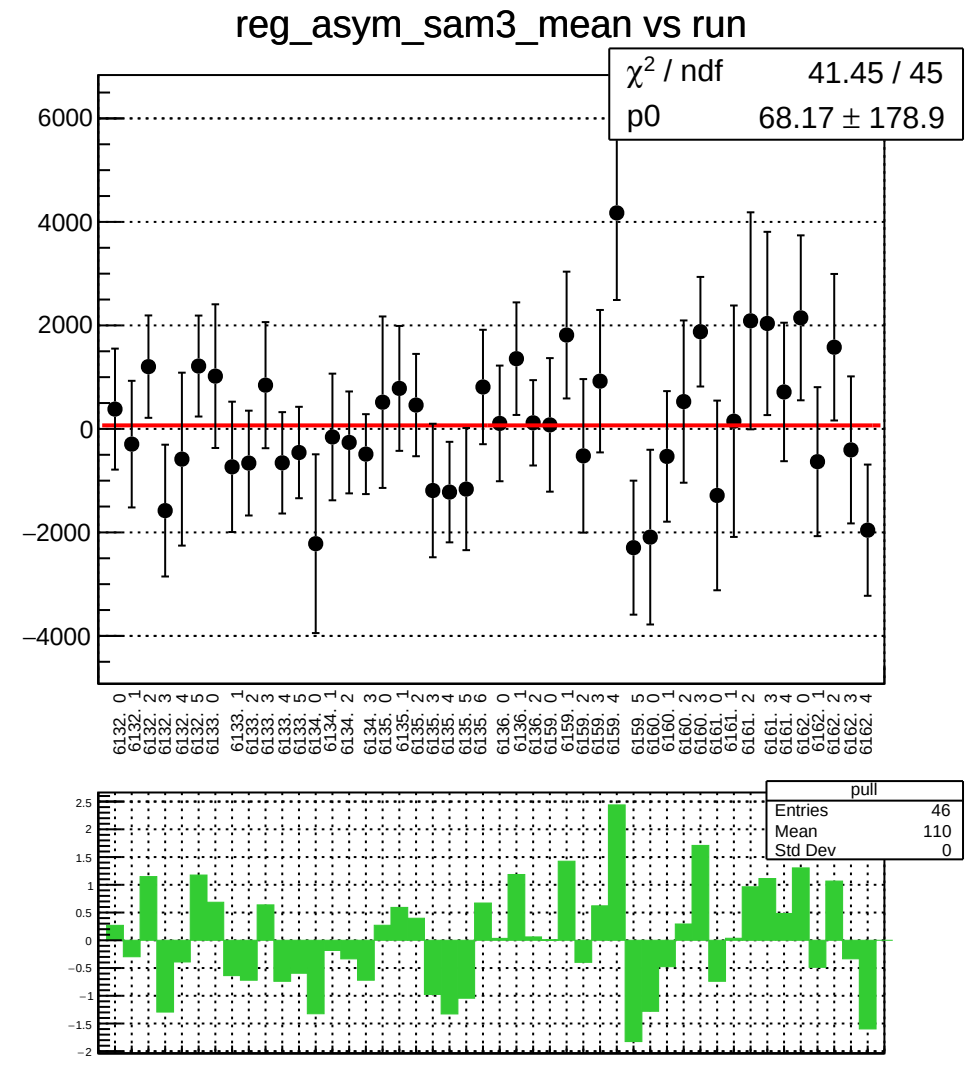

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.95 / 45
p0 −0.0001488 ± 0.1649
pull
Entries 46
Mean 644.2
Std Dev 0

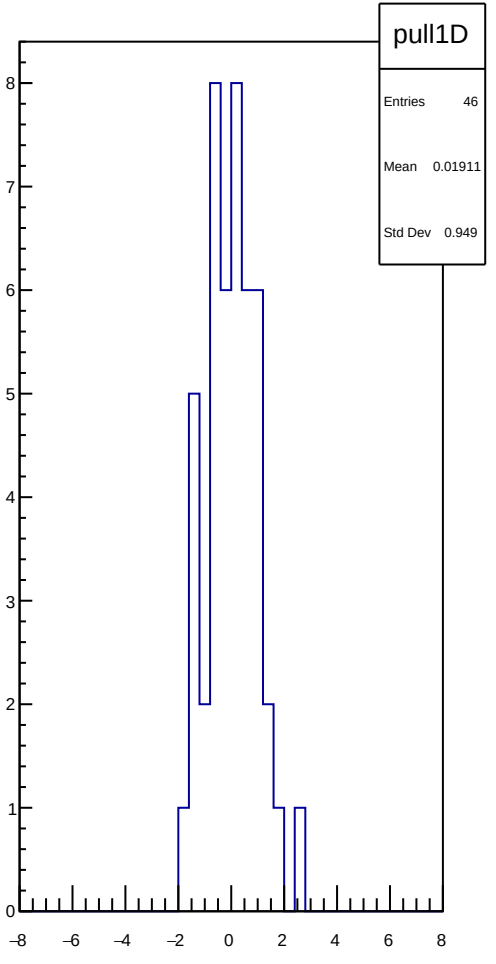

pull1D
Entries 46
Mean 0.004073
Std Dev 0.9994

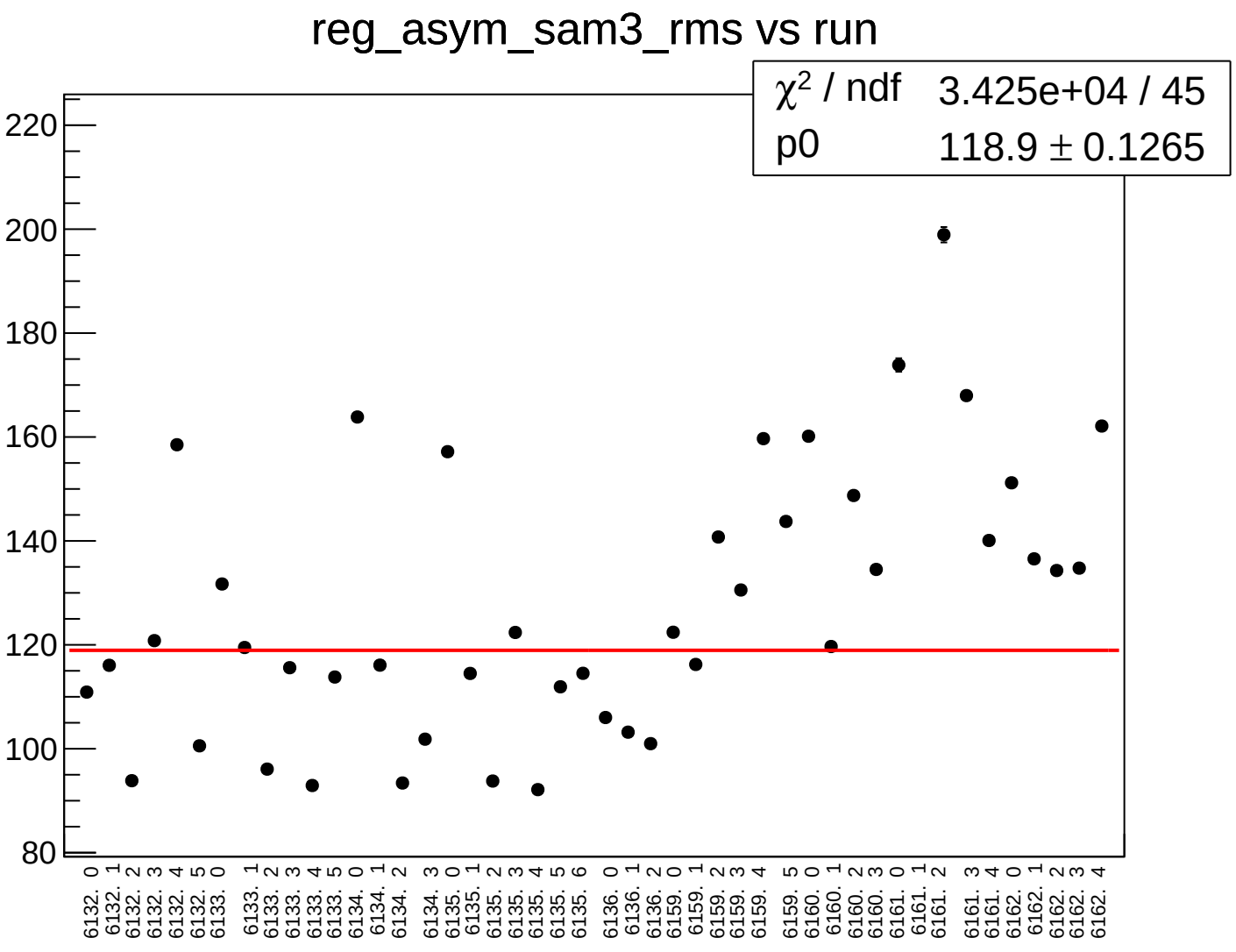

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.284e+04 / 45
p0 110.4 ± 0.1166
170
160
150
140
130
120
110
100
90
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

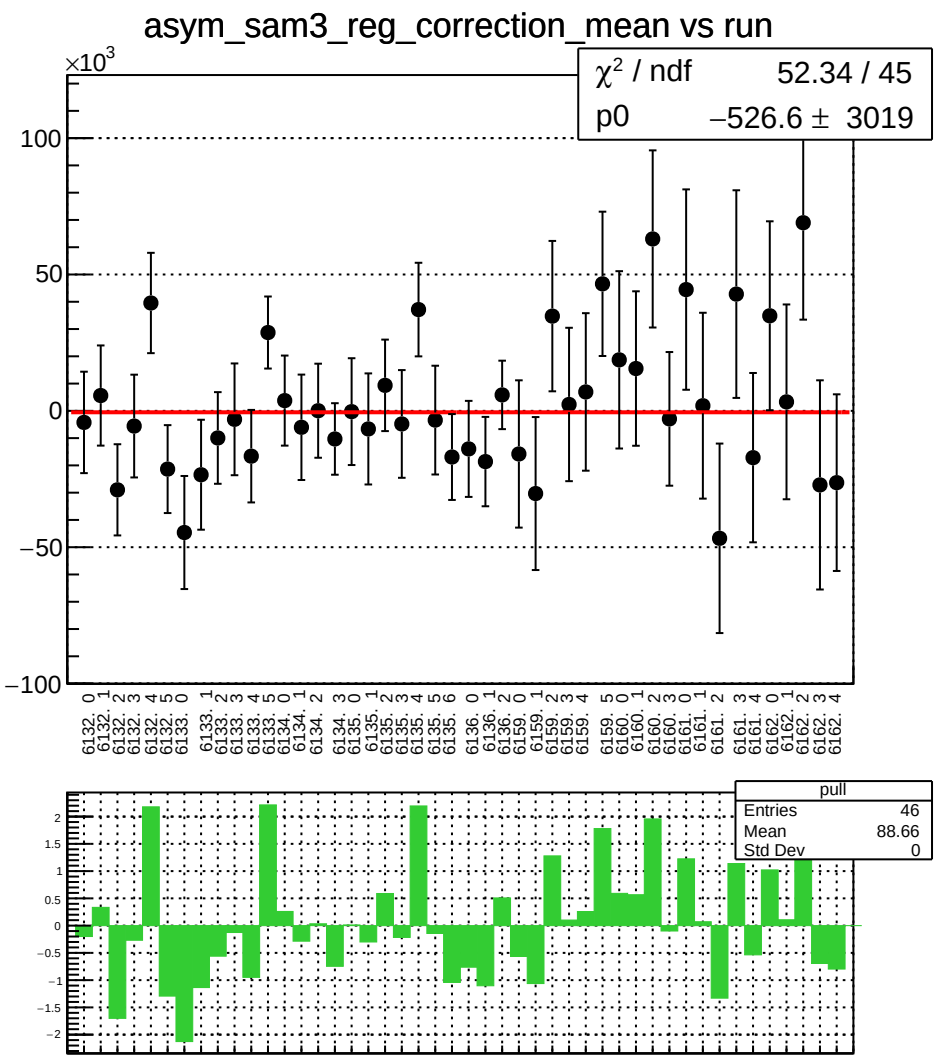

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 52.95 / 45
p0 4.308e−13 ± 2.399e−13
15
10
5
0
−5
−10
−15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 31.89
Std Dev 2.101
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.1088
Std Dev 1.067
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

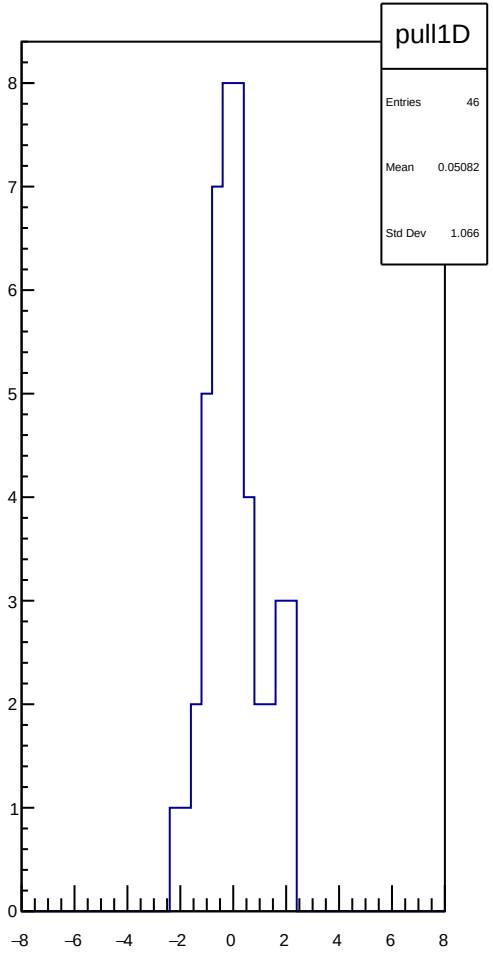

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.841e+05 / 45
p0 1.351e−10 ± 1.697e−13
1.2
1
0.8
0.6
0.4
0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

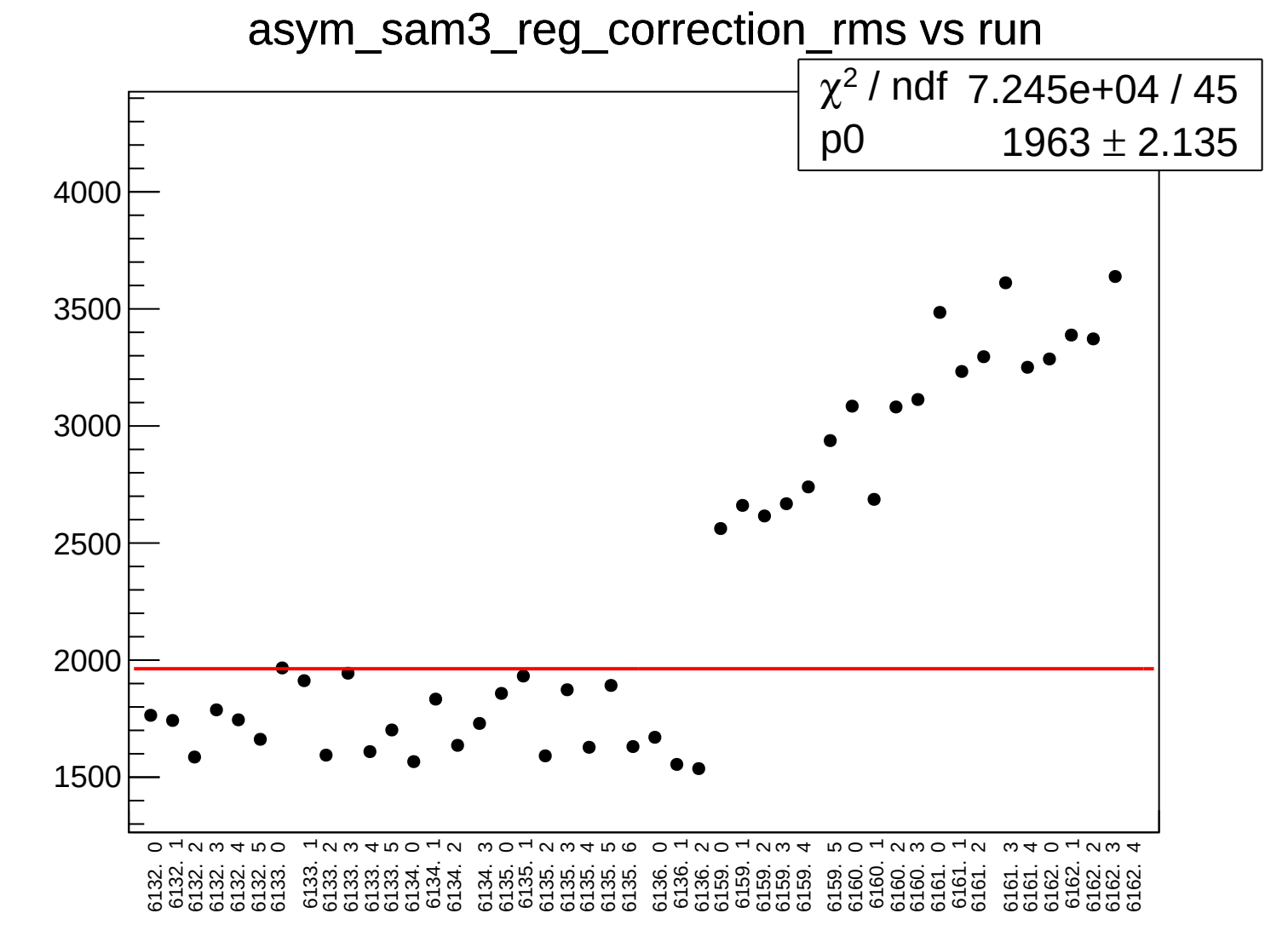

reg_asym_sam3_mean vs run
χ^2 / ndf 41.45 / 45
p0 68.17 ± 178.9
6000
4000
2000
0
−2000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 110
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.01911
Std Dev 0.949
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 3.425e+04 / 45
p0 118.9 ± 0.1265
220
200
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam3_reg_correction_mean vs run
×10^3
χ² / ndf 52.34 / 45
p0 −526.6 ± 3019
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 88.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.05082
Std Dev 1.066
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam3_reg_correction_rms vs run
χ² / ndf 7.245e+04 / 45
p0 1963 ± 2.135
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
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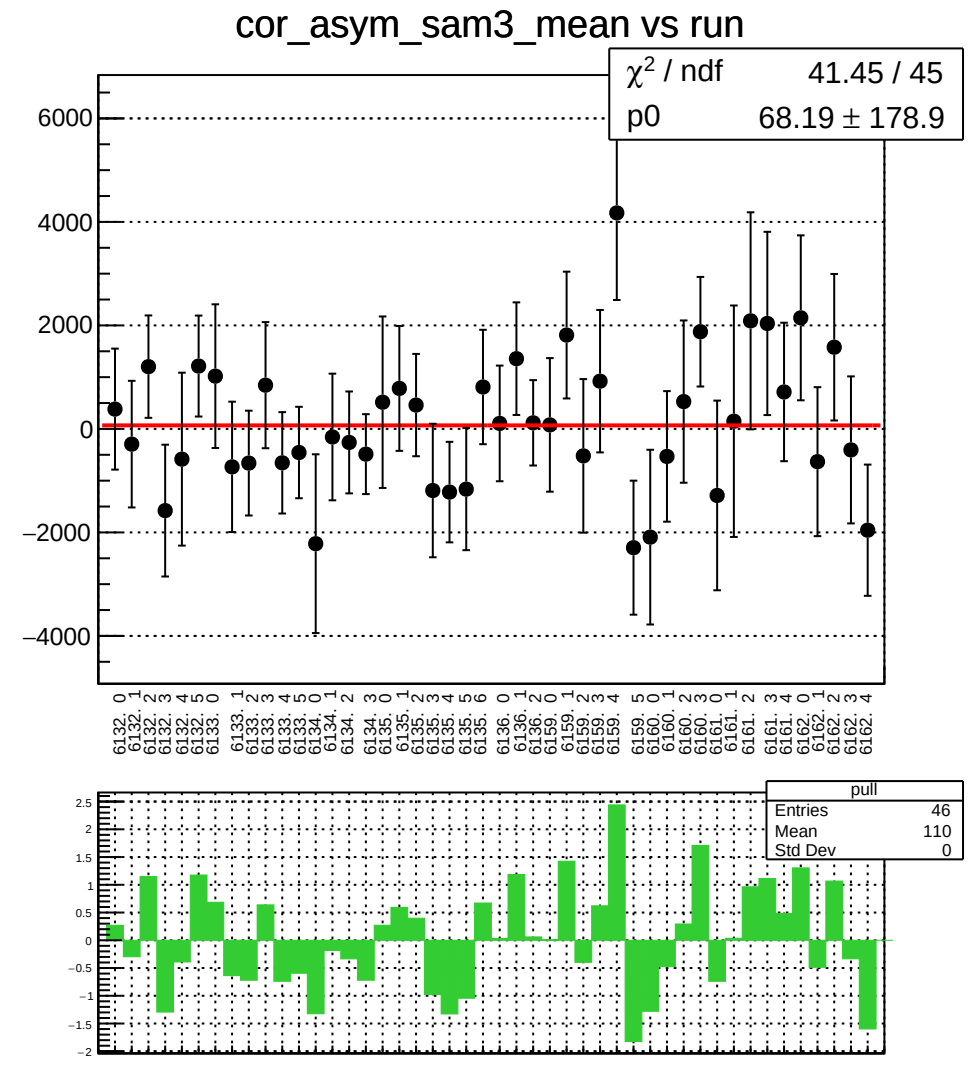
cor_asym_sam3_mean vs run
χ² / ndf 41.45 / 45
p0 68.19 ± 178.9
6000
4000
2000
0
−2000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 5
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6134. 2
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6135. 2
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6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 110
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.01911
Std Dev 0.949
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5
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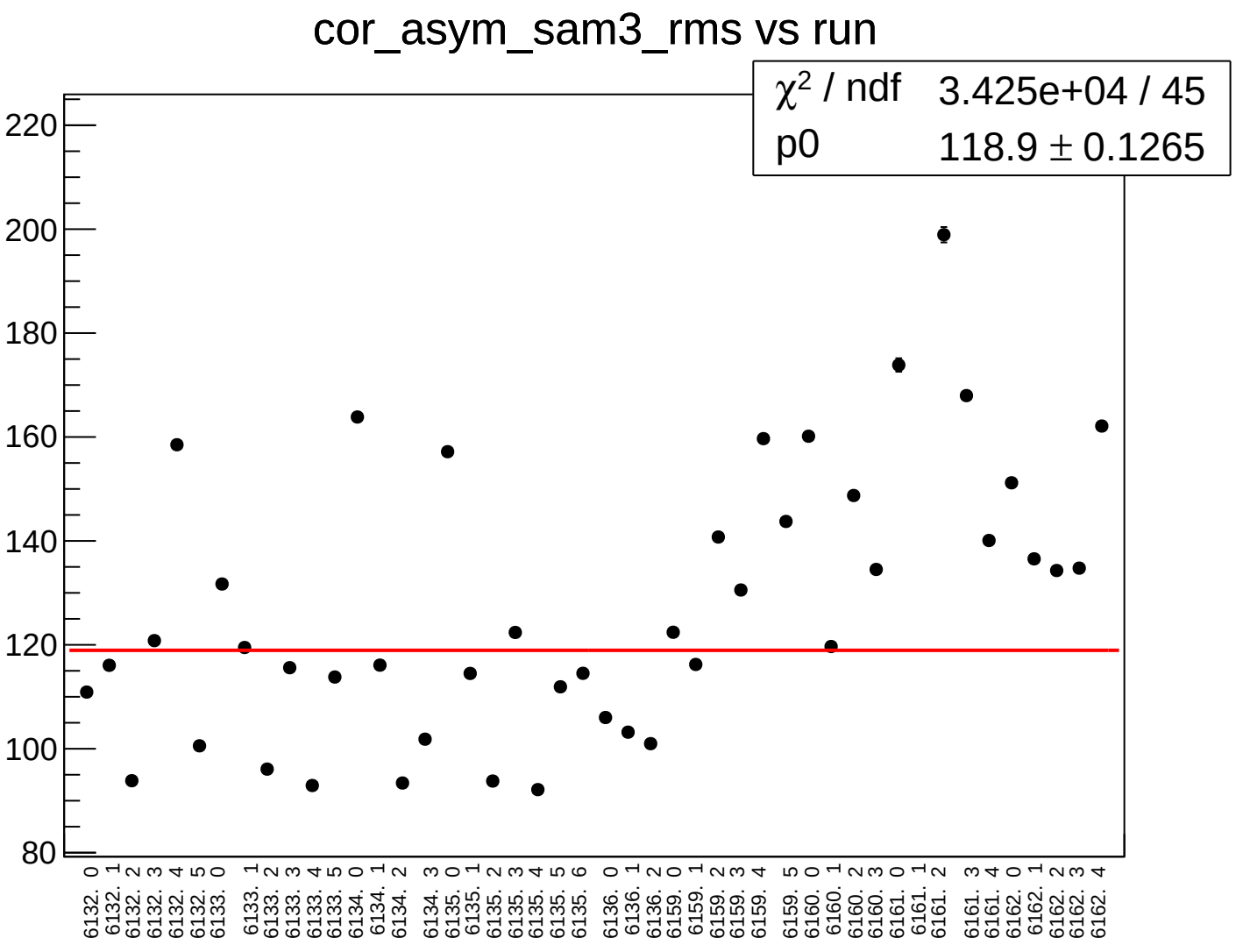
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam3_rms vs run
χ² / ndf 3.425e+04 / 45
p0 118.9 ± 0.1265
220
200
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
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6133. 2
6133. 3
6133. 4
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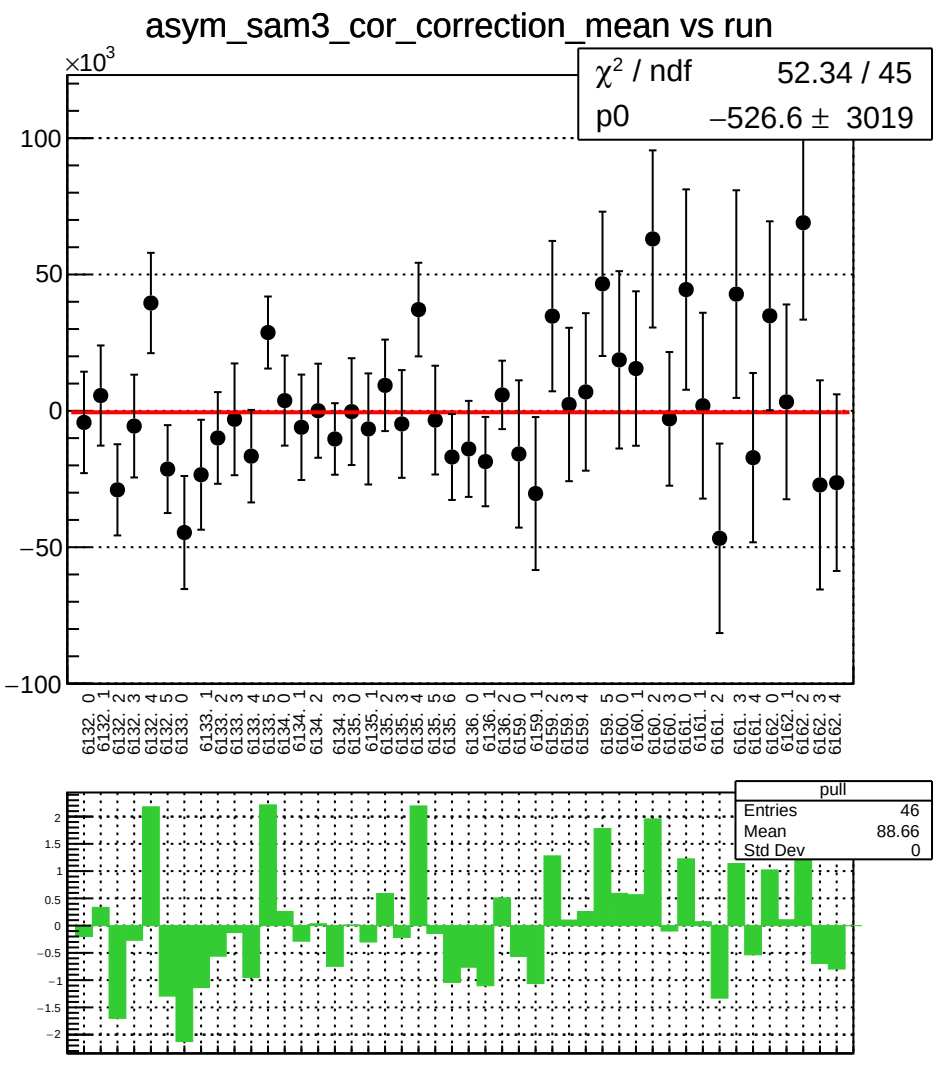
asym_sam3_cor_correction_mean vs run
×10^3
χ² / ndf 52.34 / 45
p0 −526.6 ± 3019
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
6134. 3
6135. 0
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6135. 2
6135. 3
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6135. 5
6135. 6
6136. 0
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6136. 2
6159. 0
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6159. 3
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6159. 5
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6160. 2
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6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 88.66
Std Dev 0
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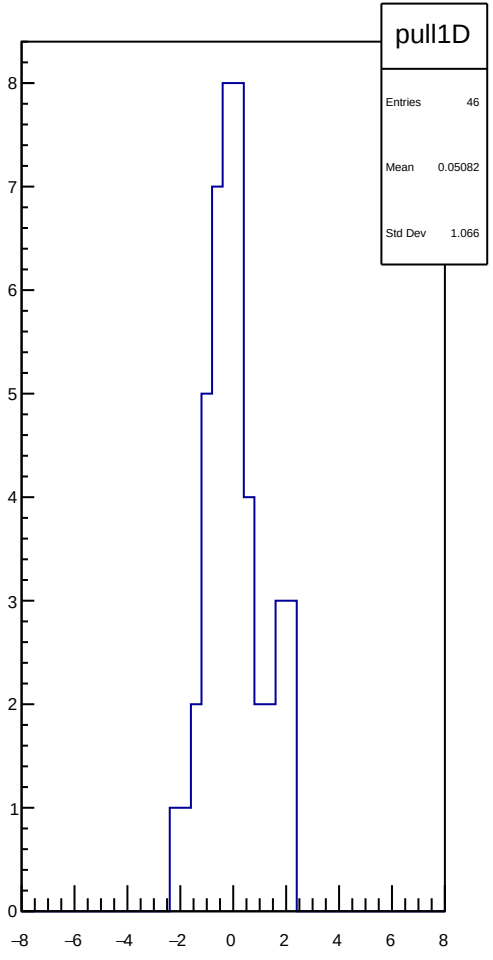
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.05082
Std Dev 1.066
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−4
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2
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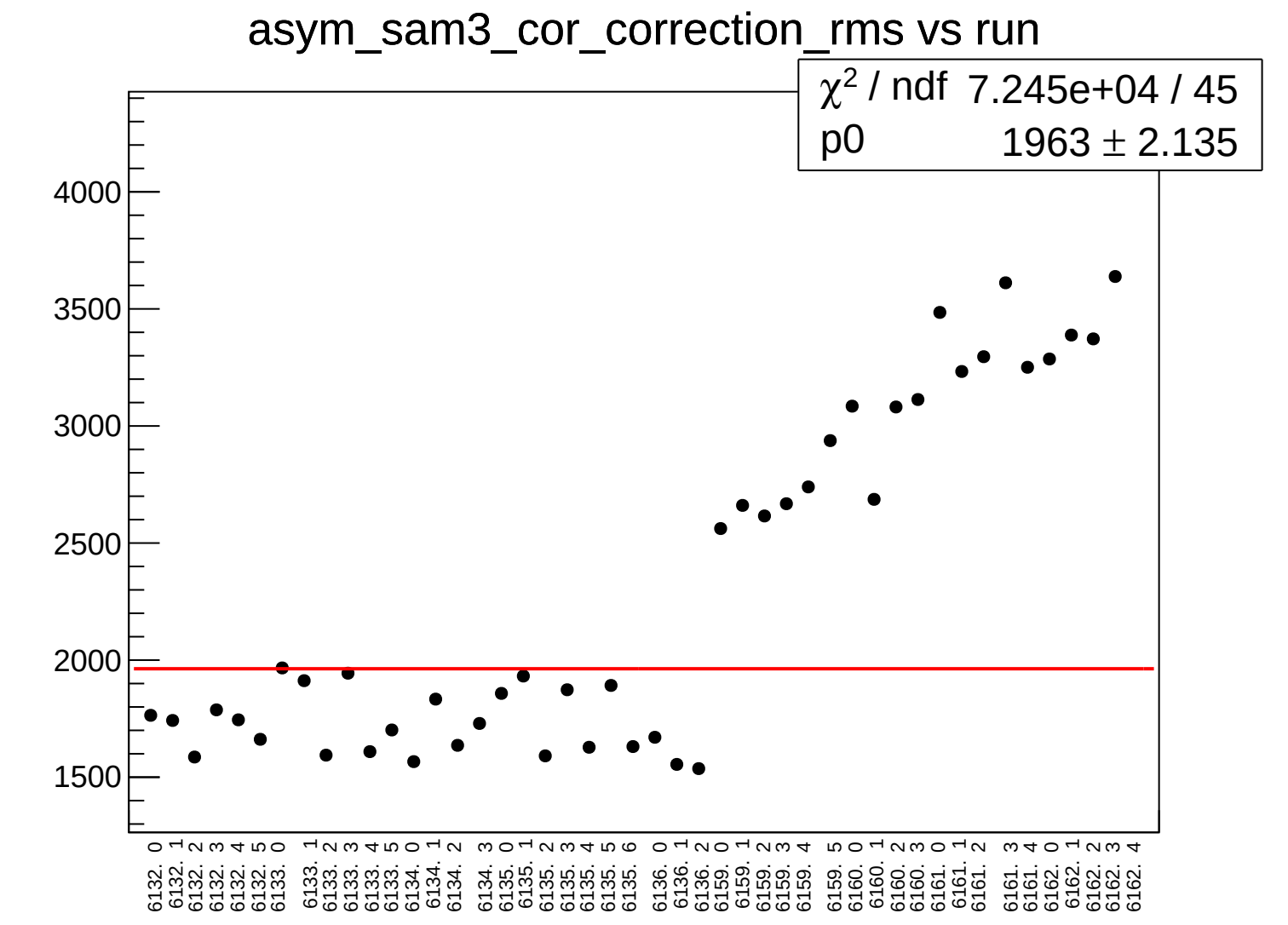
6
8


asym_sam3_cor_correction_rms vs run
χ² / ndf 7.245e+04 / 45
p0 1963 ± 2.135
4000
3500
3000
2500
2000
1500
6132. 0
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6132. 2
6132. 3
6132. 4
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6133. 0
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6133. 3
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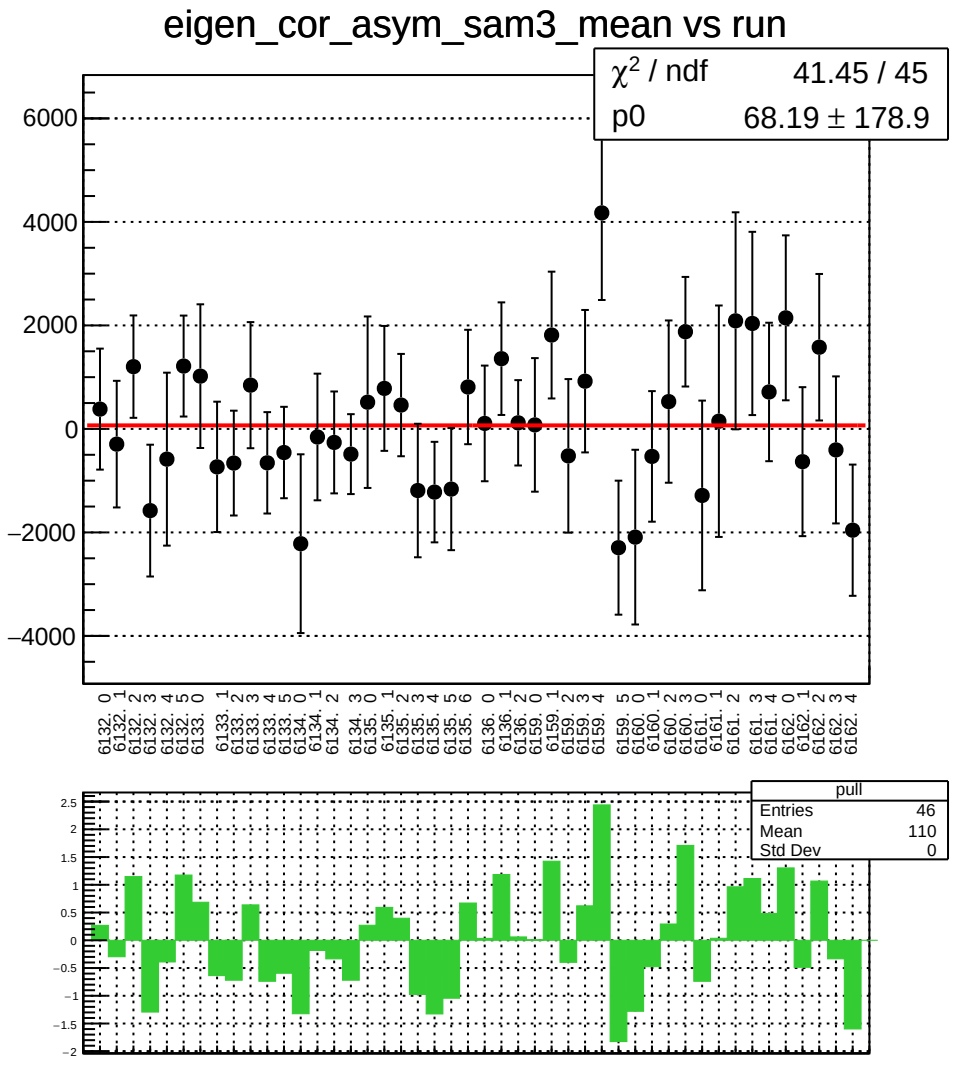
6162. 4


eigen_cor_asym_sam3_mean vs run
χ² / ndf 41.45 / 45
p0 68.19 ± 178.9
6000
4000
2000
0
−2000
−4000
6132. 0
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6134. 2
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6135. 2
6135. 3
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6135. 6
6136. 0
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6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 110
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.01911
Std Dev 0.949
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−4
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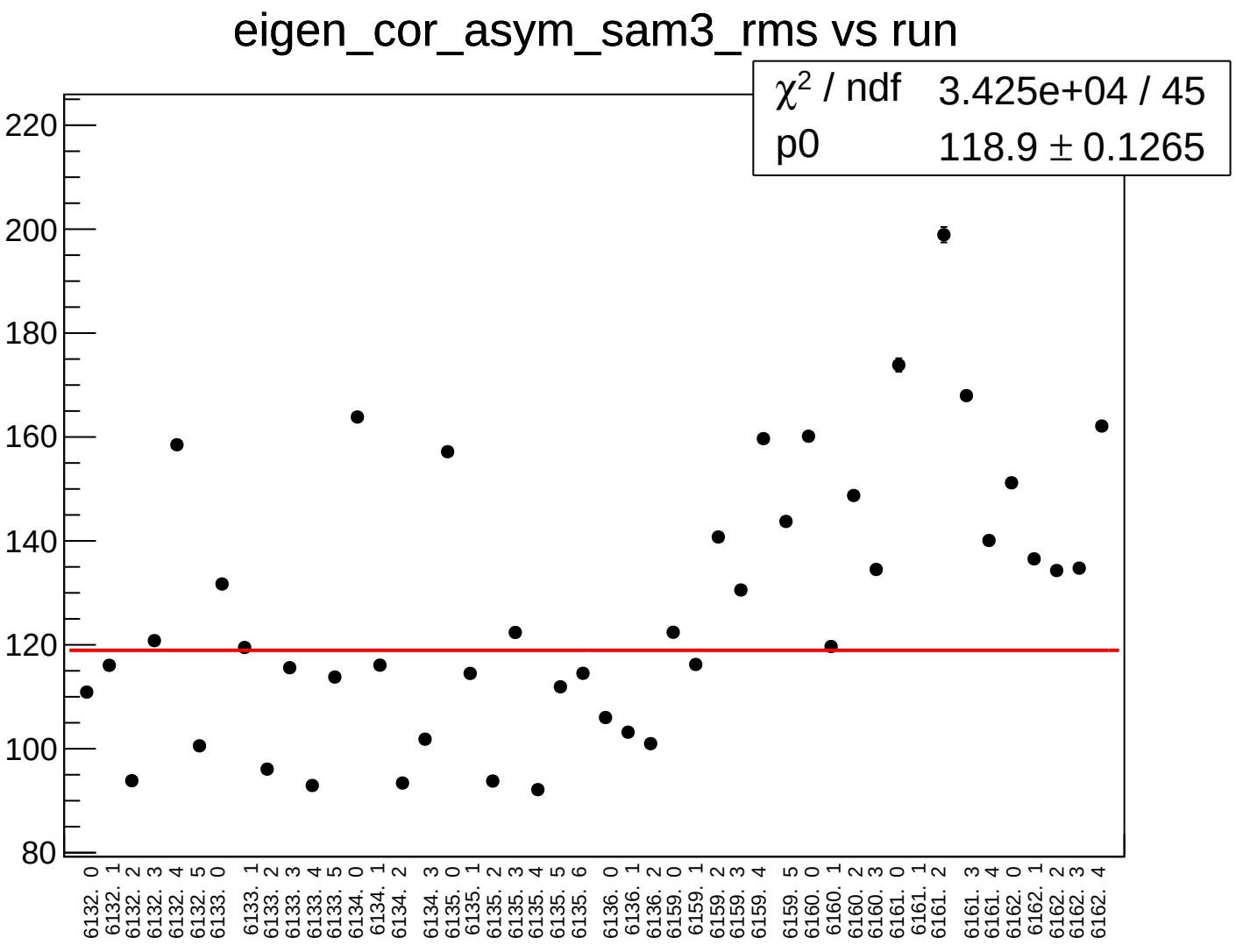
6
8


eigen_cor_asym_sam3_rms vs run
χ² / ndf 3.425e+04 / 45
p0 118.9 ± 0.1265
220
200
180
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6160. 2
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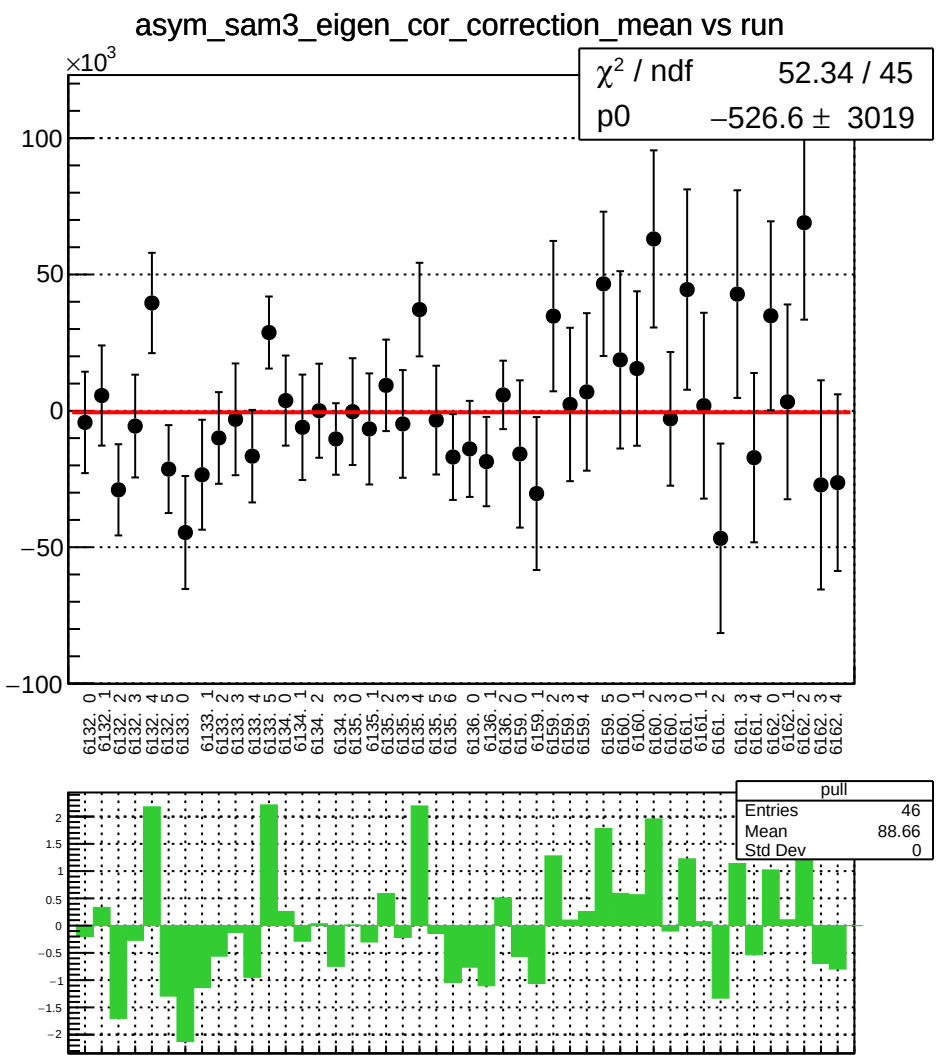
asym_sam3_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 52.34 / 45
p0 −526.6 ± 3019
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6162. 0
6162. 1
6162. 2
6162. 3
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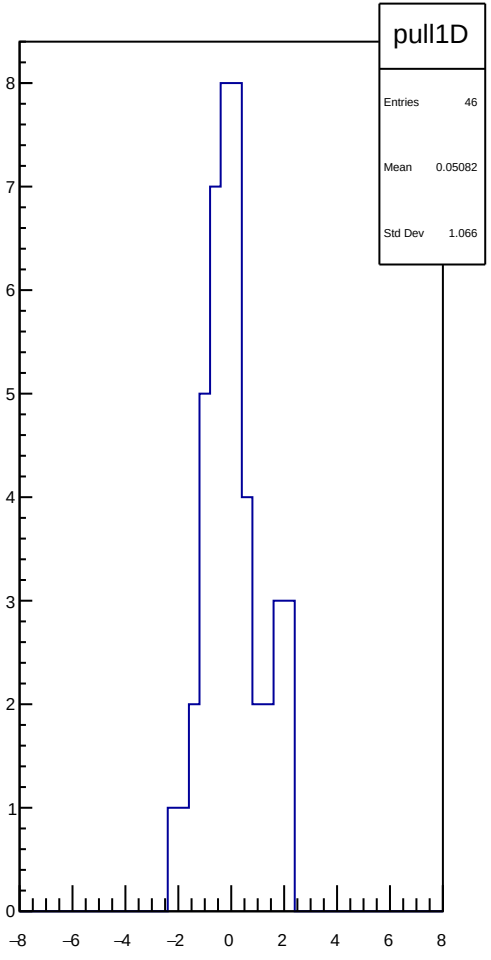
pull
Entries 46
Mean 88.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.05082
Std Dev 1.066
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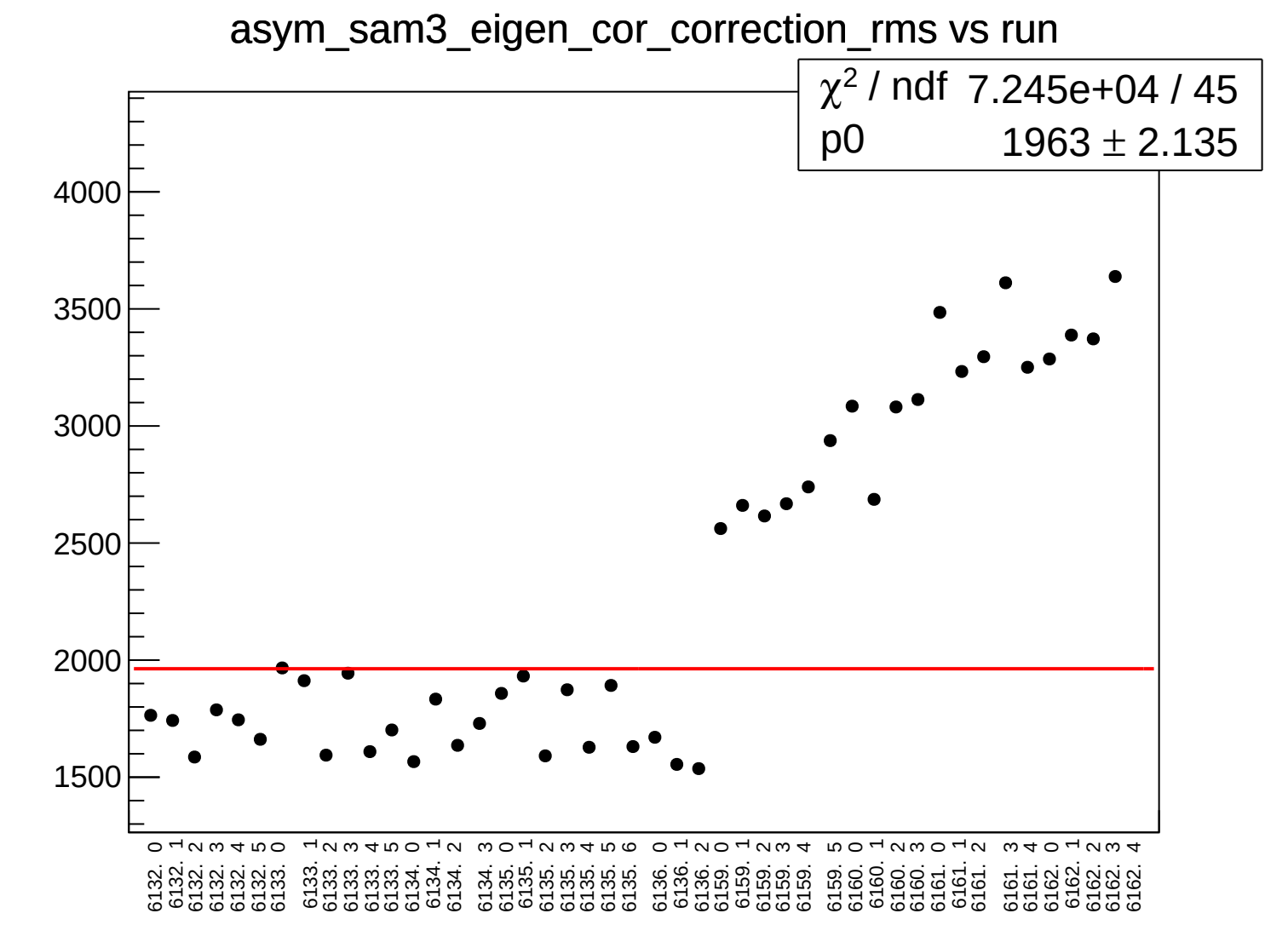
asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 7.245e+04 / 45
p0 1963 ± 2.135
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6136. 0
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6159. 1
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6160. 1
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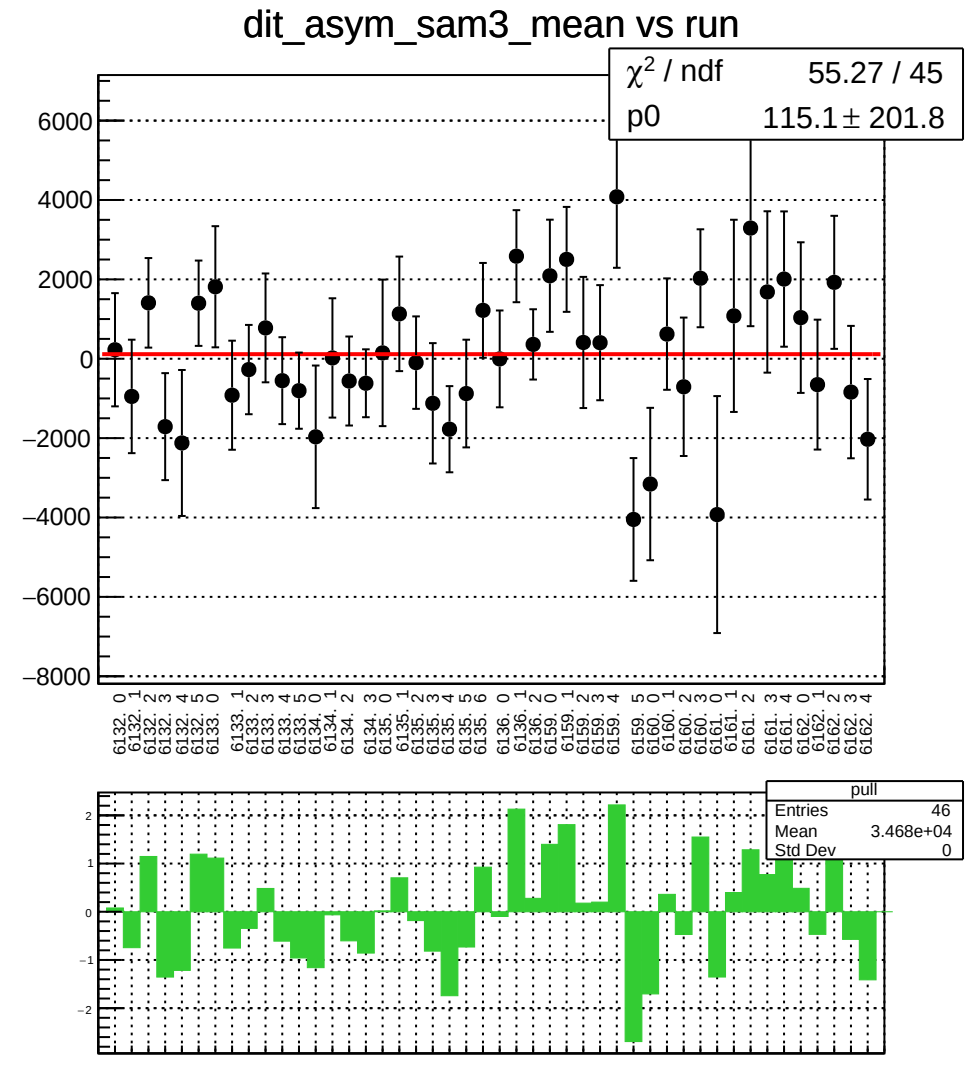
dit_asym_sam3_mean vs run
χ² / ndf 55.27 / 45
p0 115.1 ± 201.8
6000
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2000
0
−2000
−4000
−6000
−8000
6132. 0
6132. 1
6132. 2
6132. 3
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6161. 0
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6162. 0
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pull
Entries 46
Mean 3.468e+04
Std Dev 0
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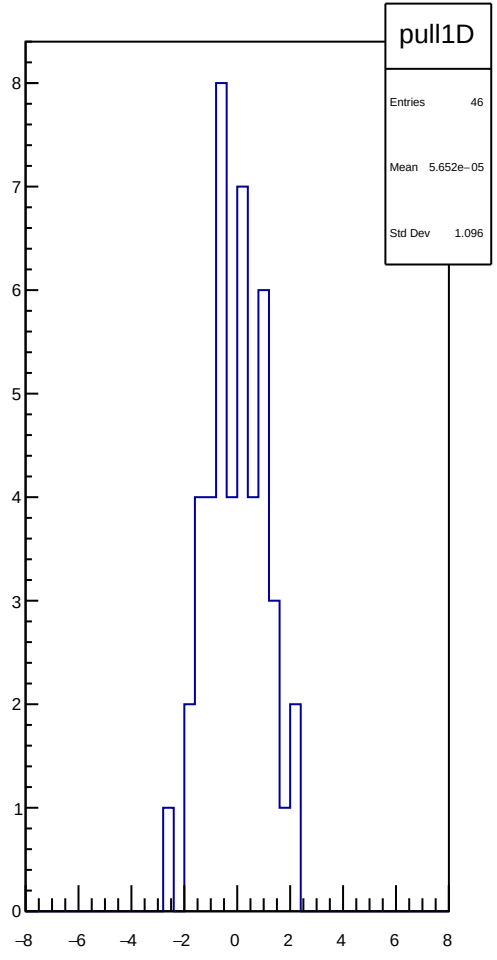
pull1D
Entries 46
Mean 5.652e−05
Std Dev 1.096
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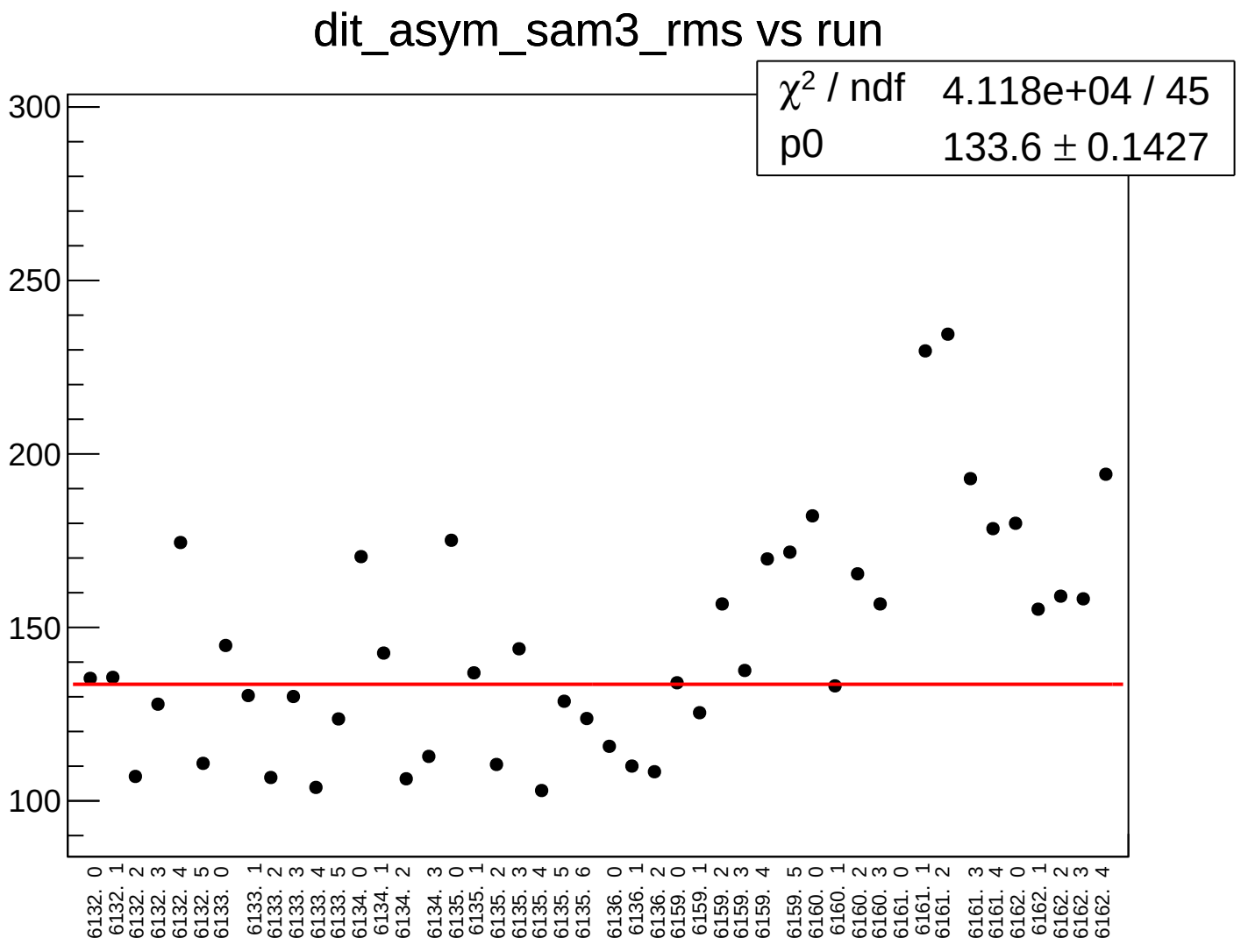
dit_asym_sam3_rms vs run
χ² / ndf 4.118e+04 / 45
p0 133.6 ± 0.1427
300
250
200
150
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
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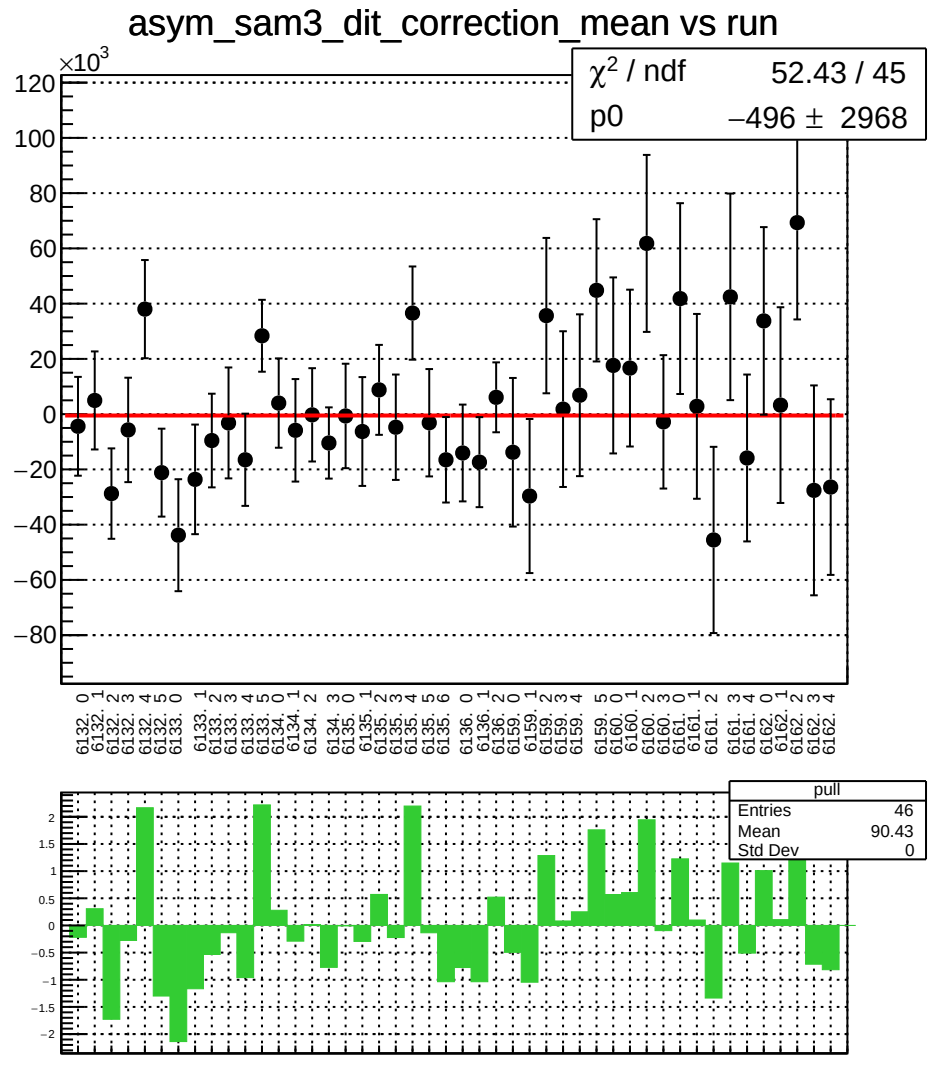
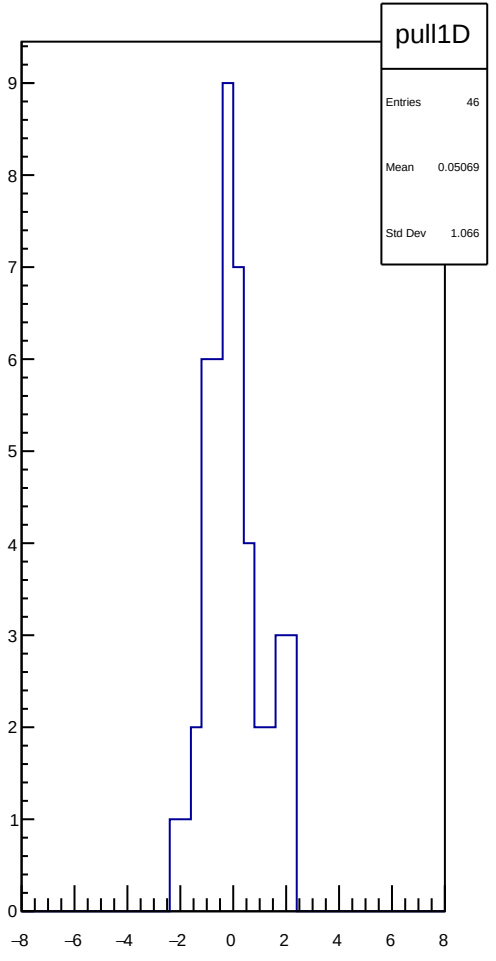
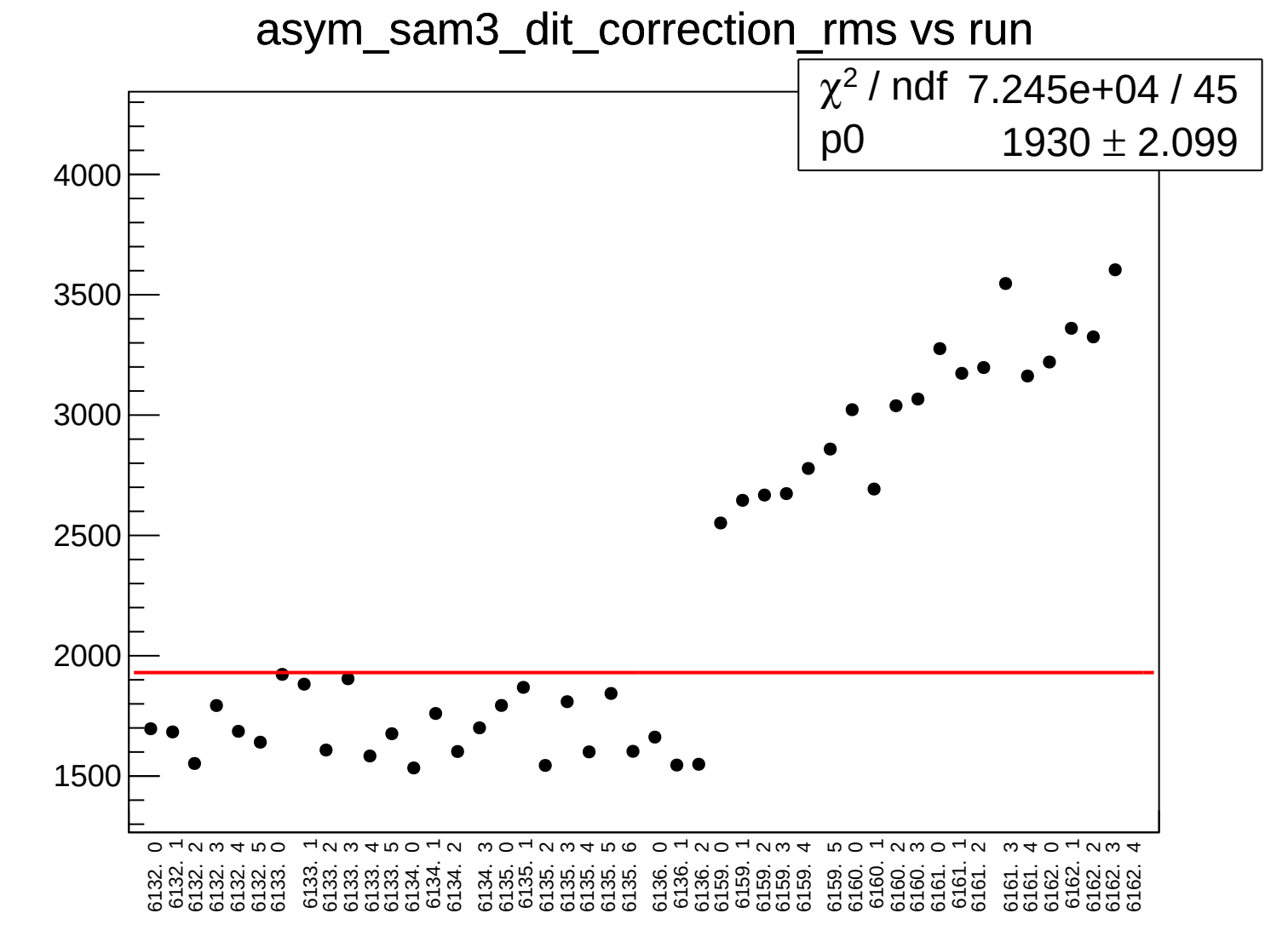

asym_sam3_dit_correction_mean vs run
×10^3
χ² / ndf 52.43 / 45
p0 −496 ± 2968
pull
Entries 46
Mean 90.43
Std Dev 0


pull1D
Entries 46
Mean 0.05069
Std Dev 1.066


asym_sam3_dit_correction_rms vs run
χ² / ndf 7.245e+04 / 45
p0 1930 ± 2.099
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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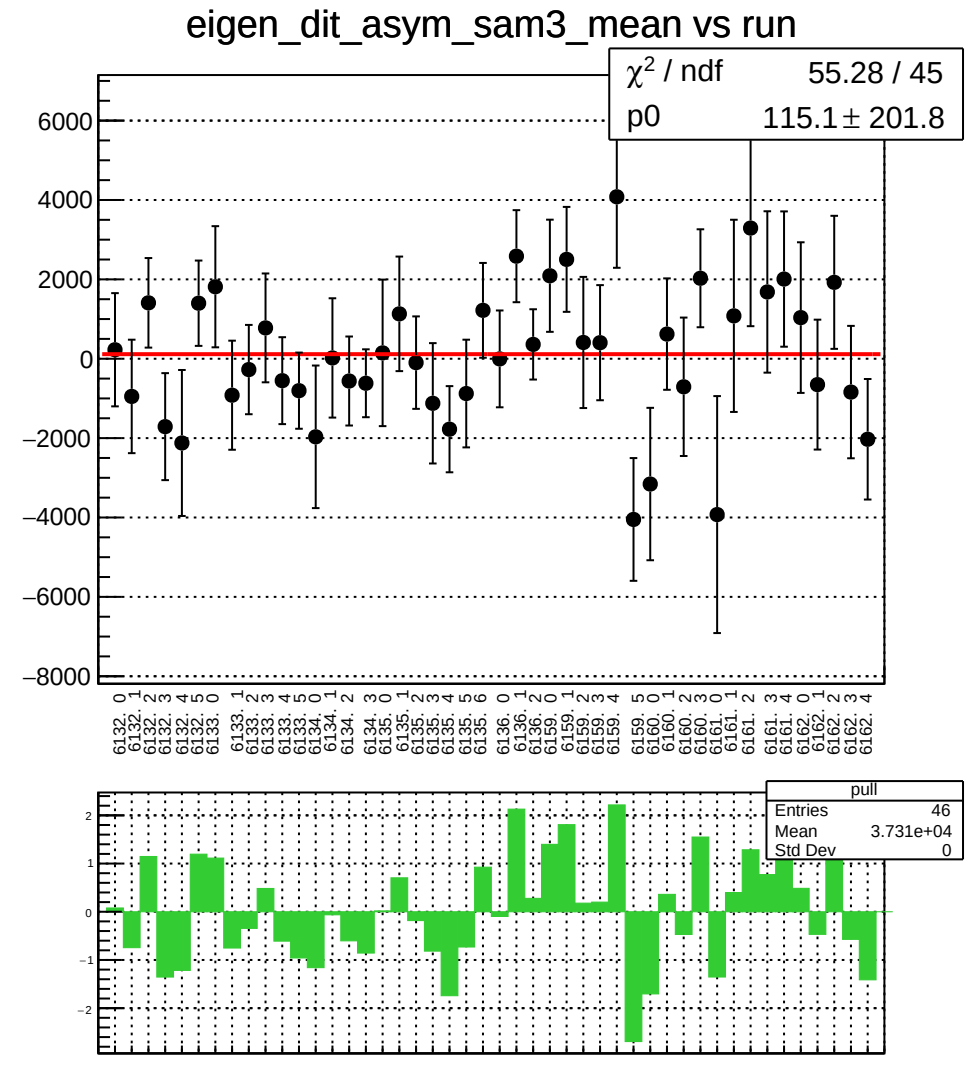
eigen_dit_asym_sam3_mean vs run
χ² / ndf 55.28 / 45
p0 115.1 ± 201.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
6132. 0
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6132. 2
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6132. 4
6132. 5
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6162. 0
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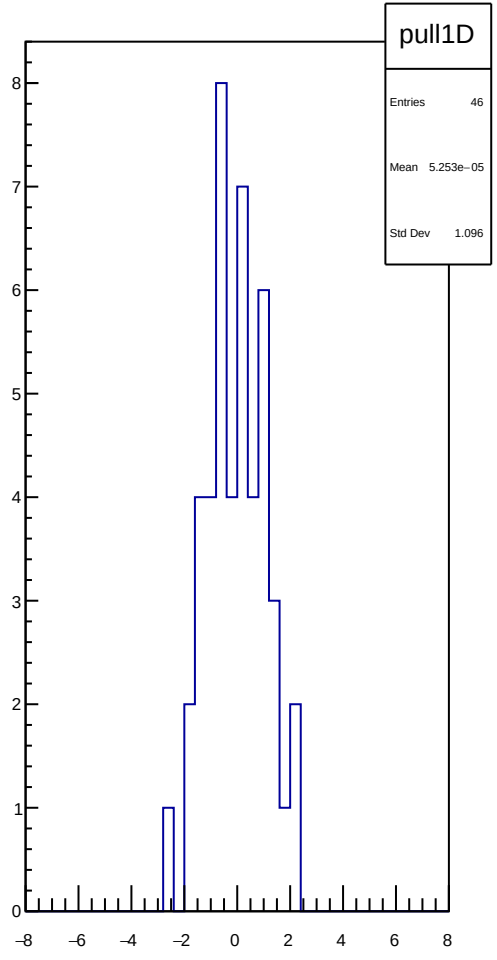
pull
Entries 46
Mean 3.731e+04
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean 5.253e−05
Std Dev 1.096
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2
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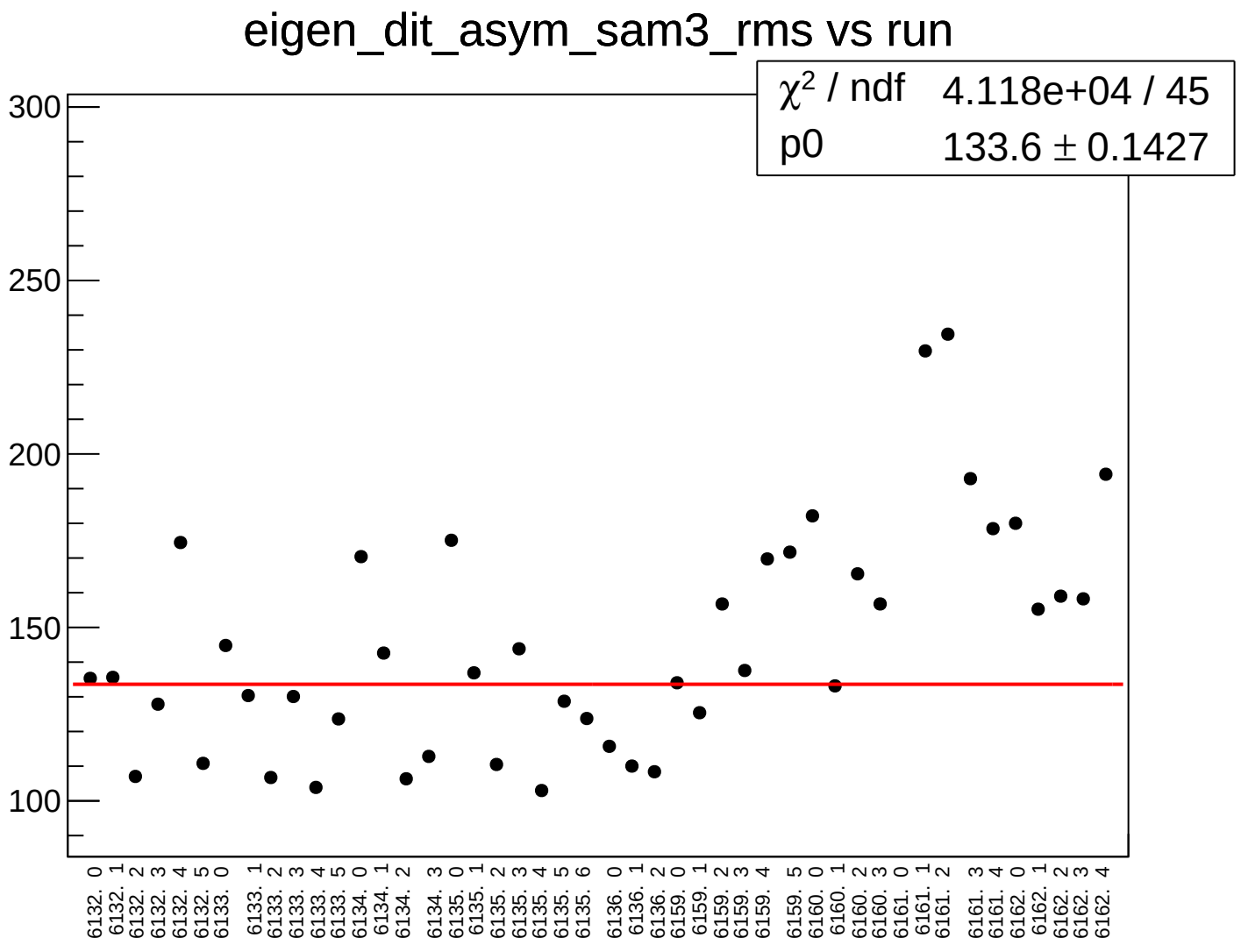
6
8


eigen_dit_asym_sam3_rms vs run
χ² / ndf 4.118e+04 / 45
p0 133.6 ± 0.1427
300
250
200
150
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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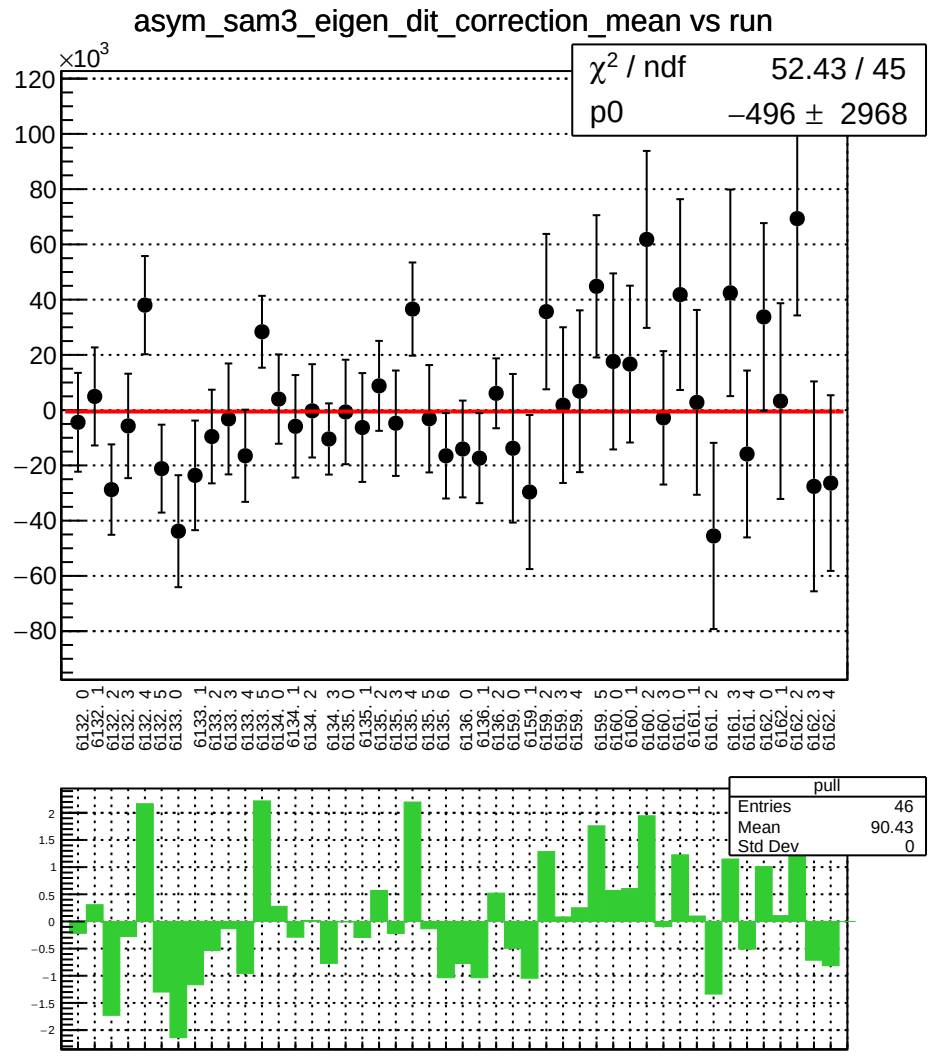
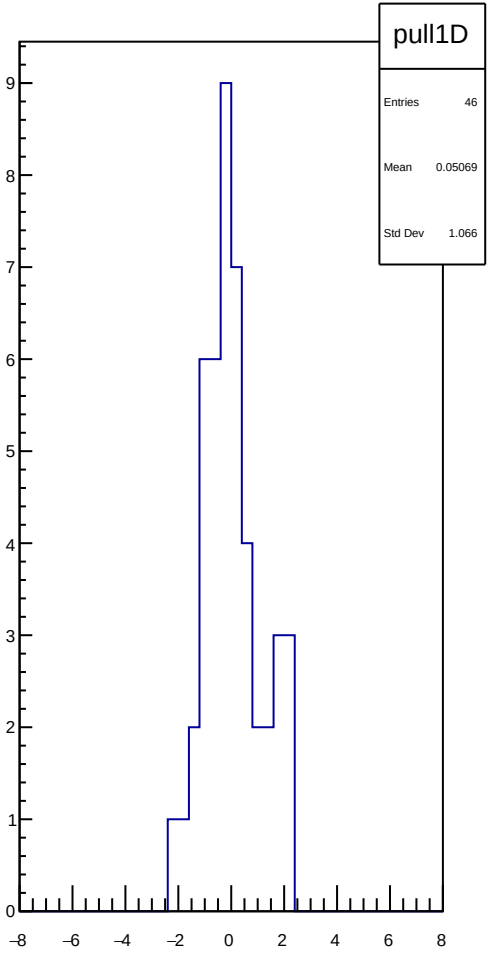
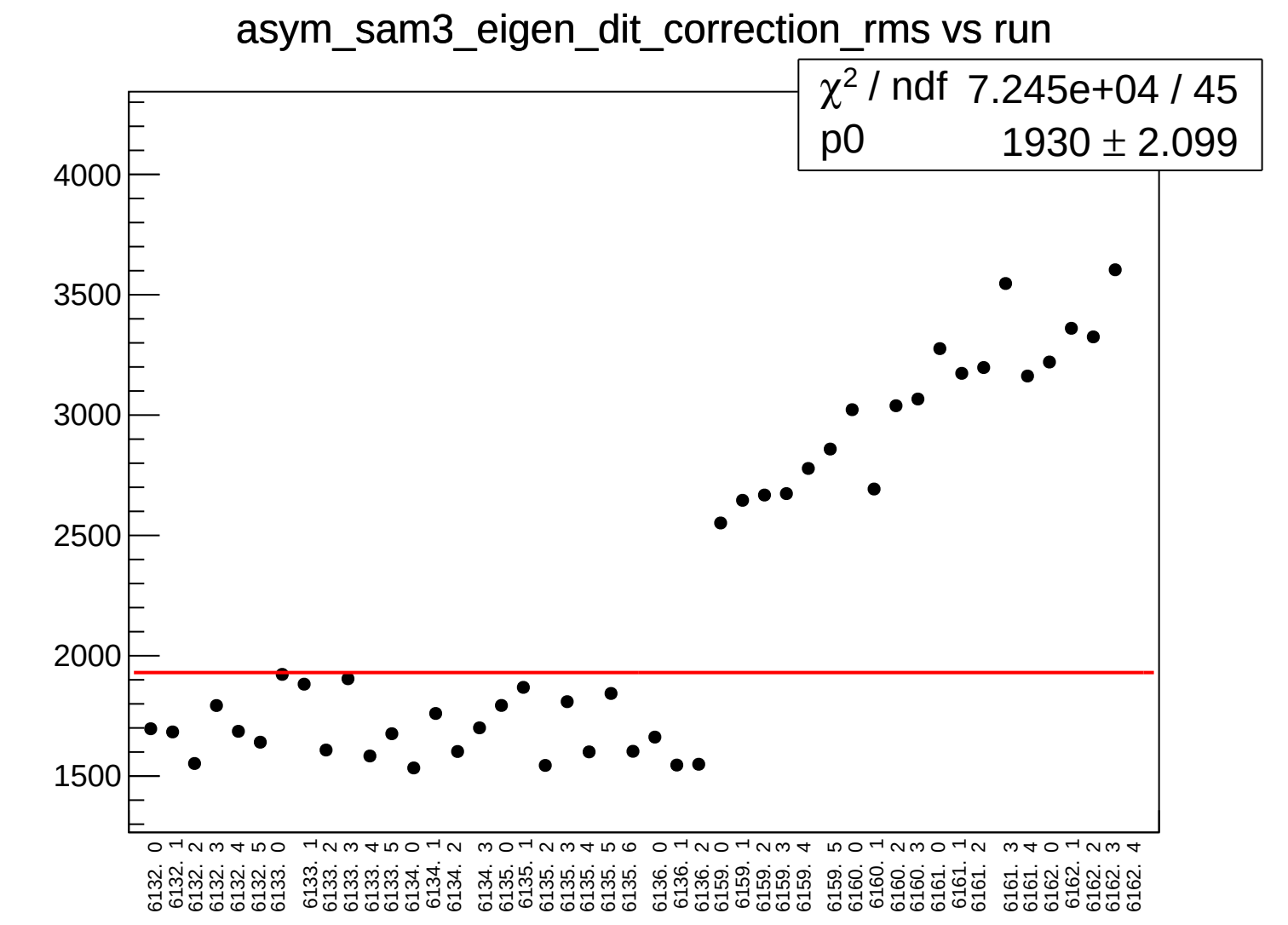
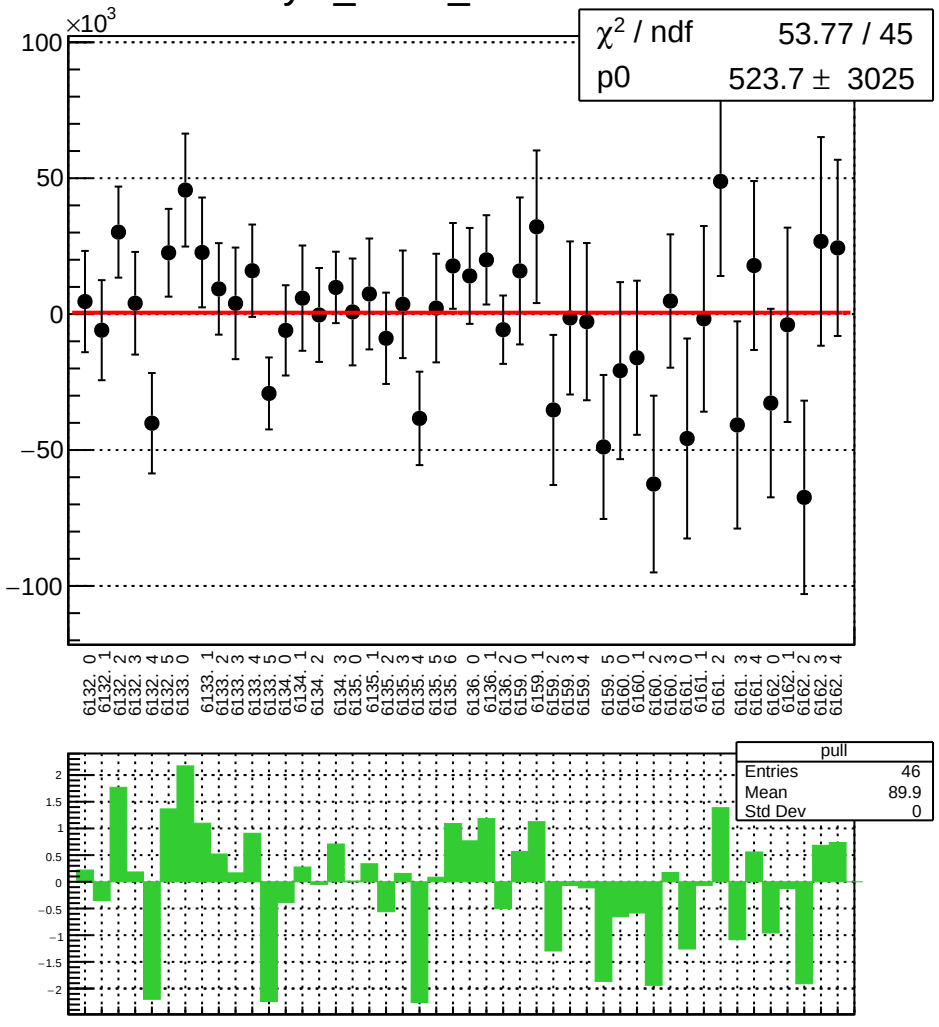
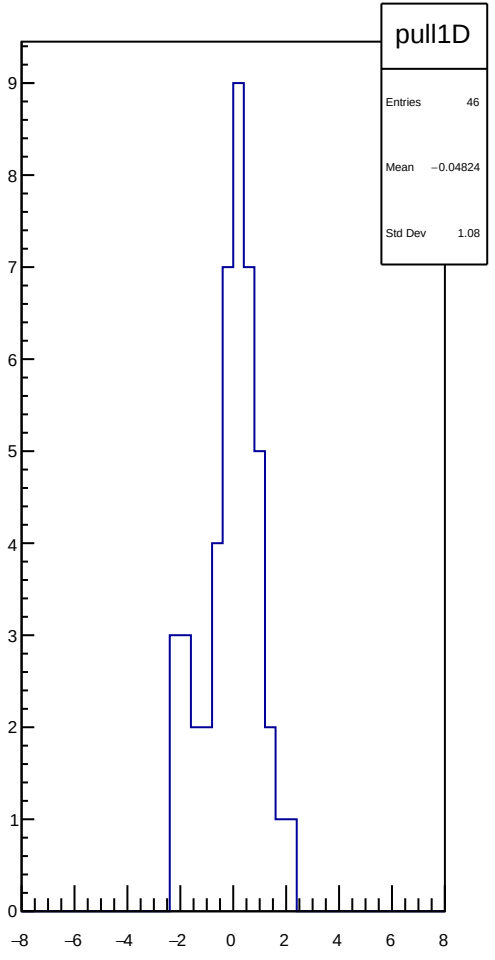
6162. 4

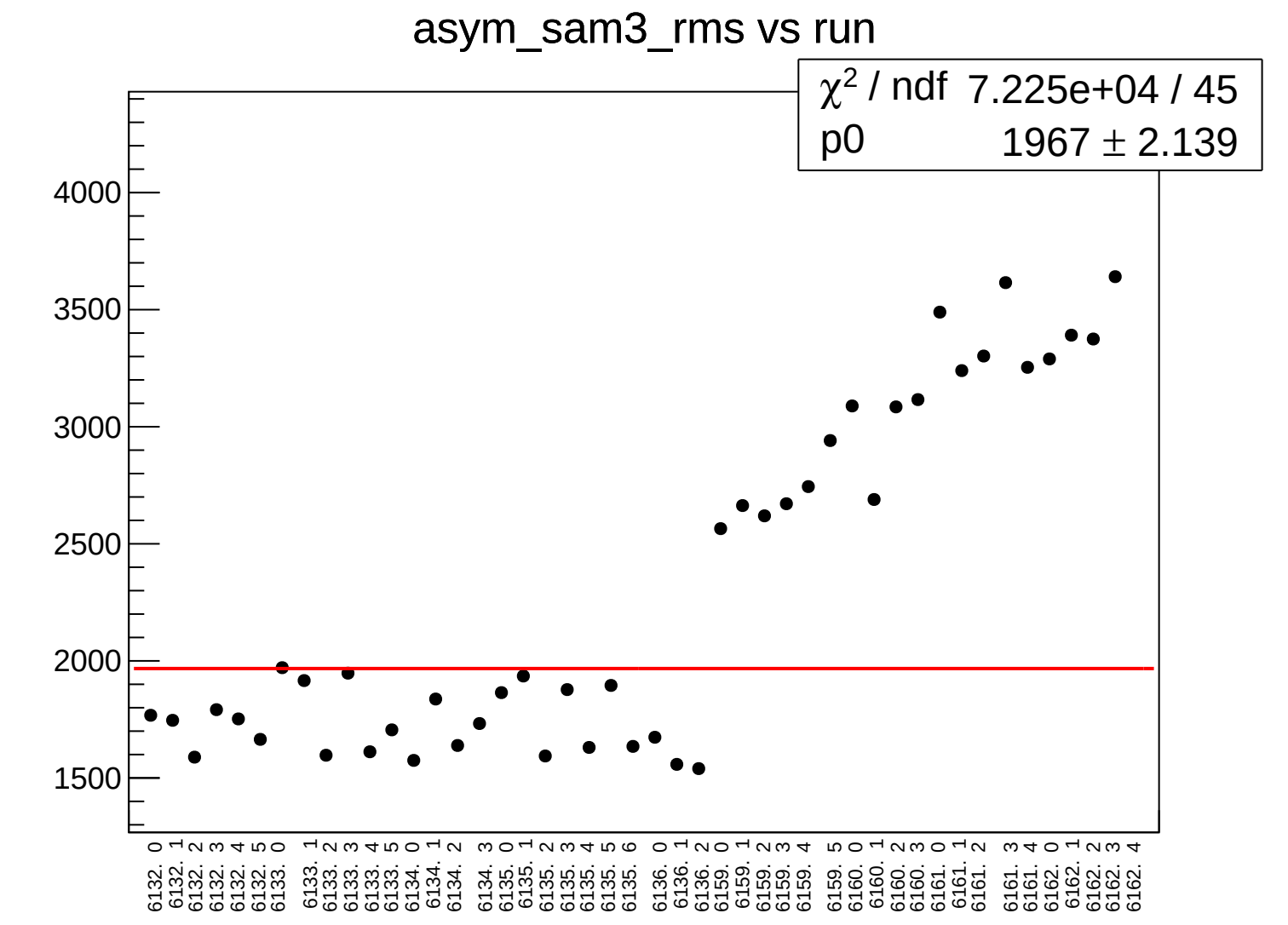

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 52.43 / 45
p0 −496 ± 2968
pull
Entries 46
Mean 90.43
Std Dev 0

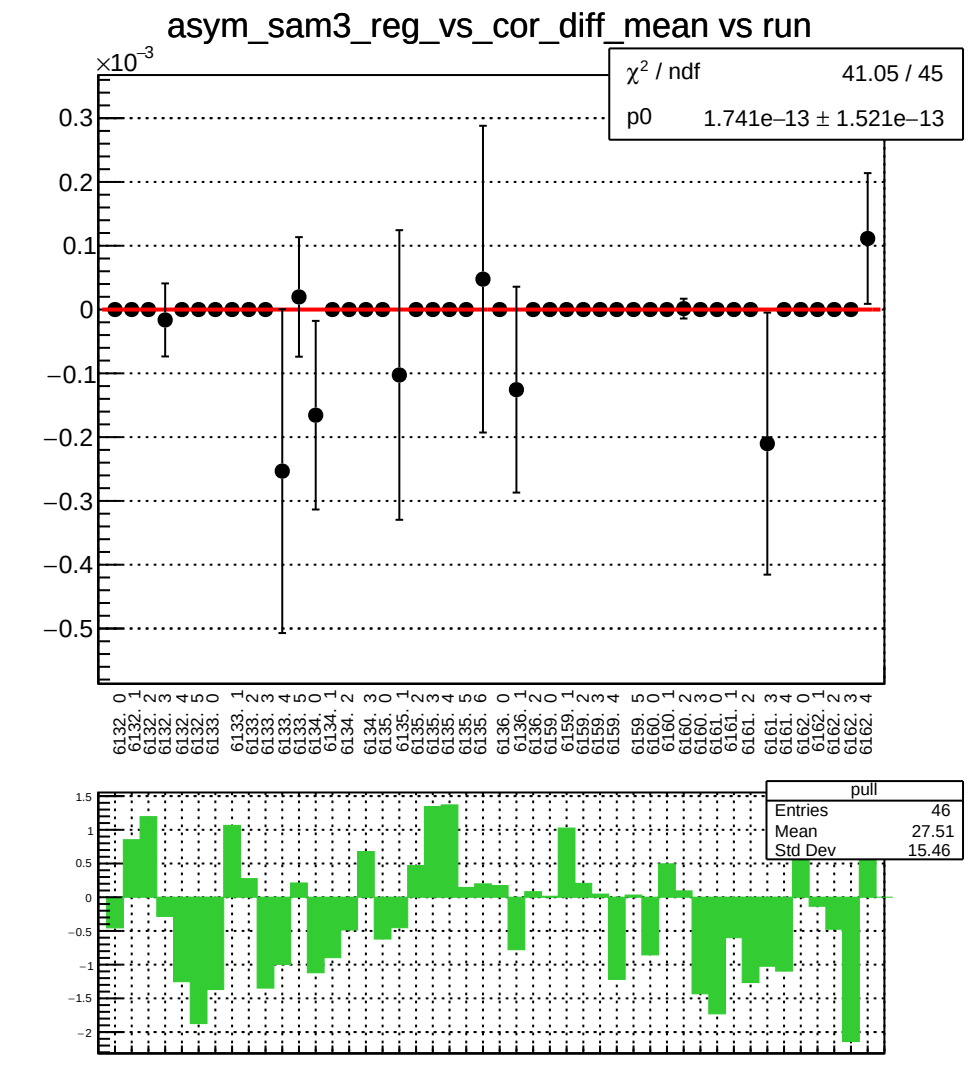

pull1D
Entries 46
Mean 0.05069
Std Dev 1.066

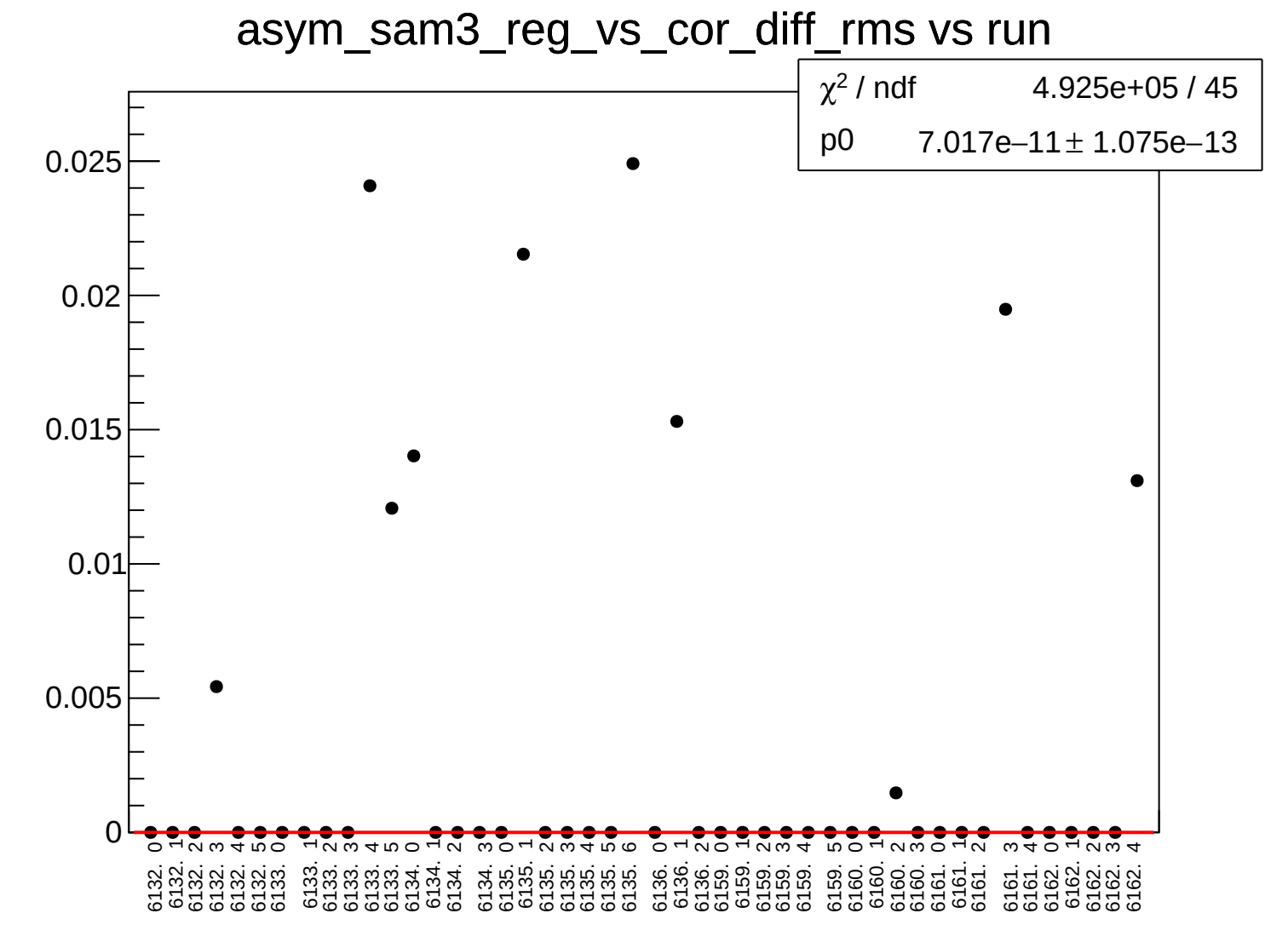

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 7.245e+04 / 45
p0 1930 ± 2.099
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

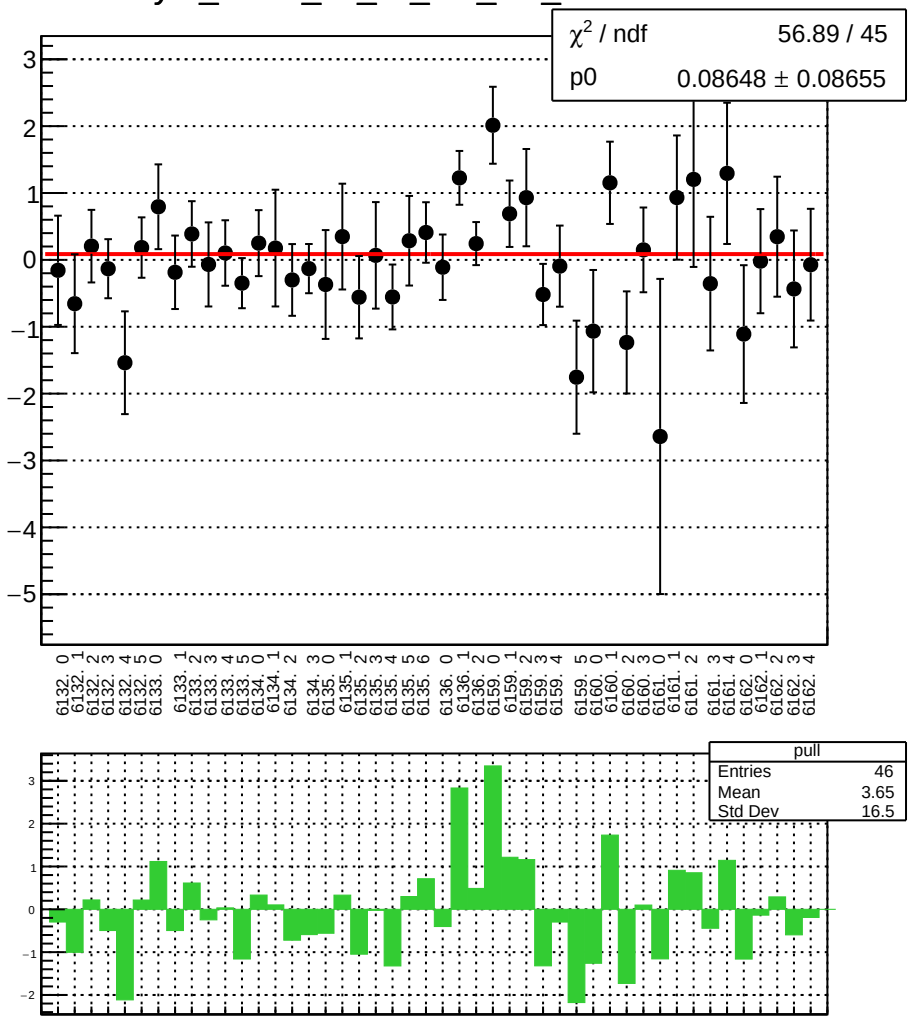

asym_sam3_mean vs run
×10^3
χ^2 / ndf 53.77 / 45
p0 523.7 ± 3025
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 89.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

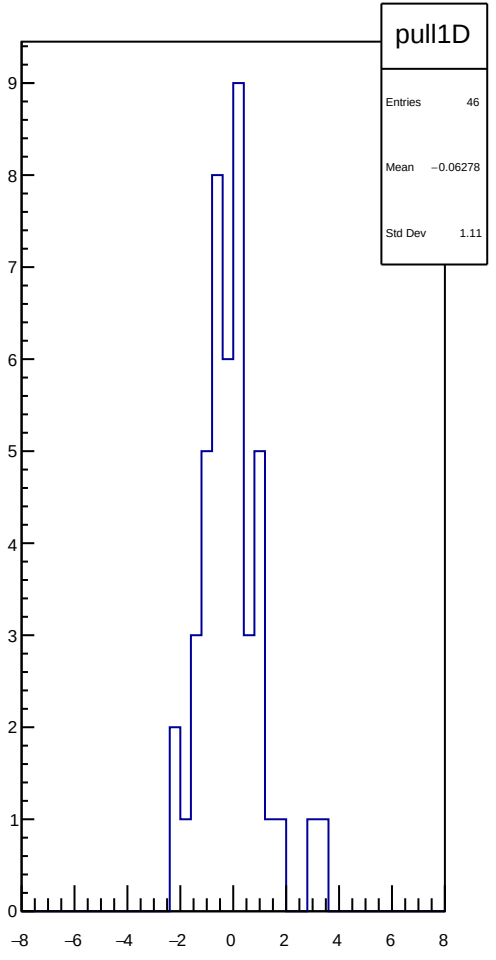

pull1D
Entries 46
Mean −0.04824
Std Dev 1.08
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

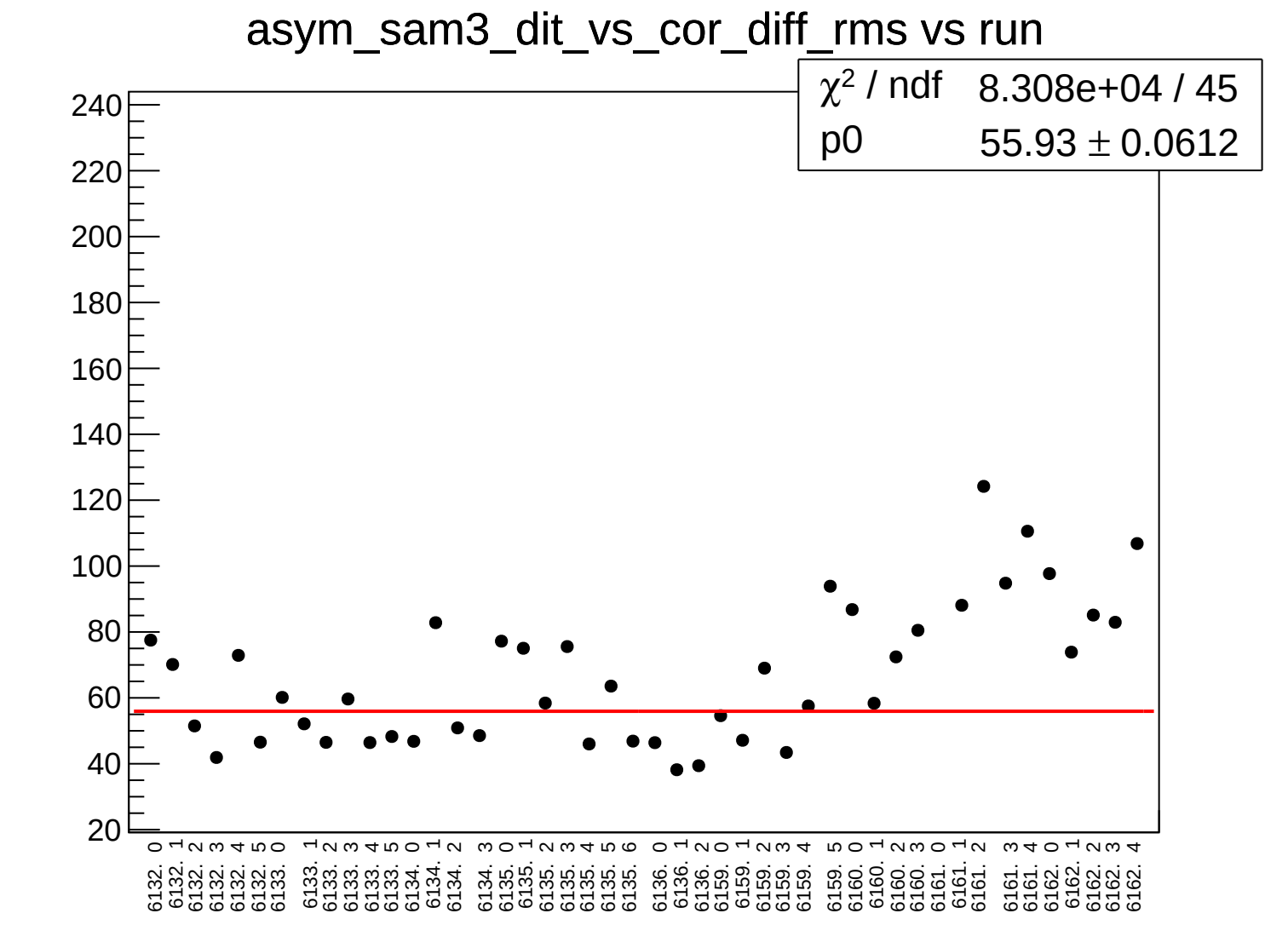

asym_sam3_rms vs run
χ² / ndf 7.225e+04 / 45
p0 1967 ± 2.139
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

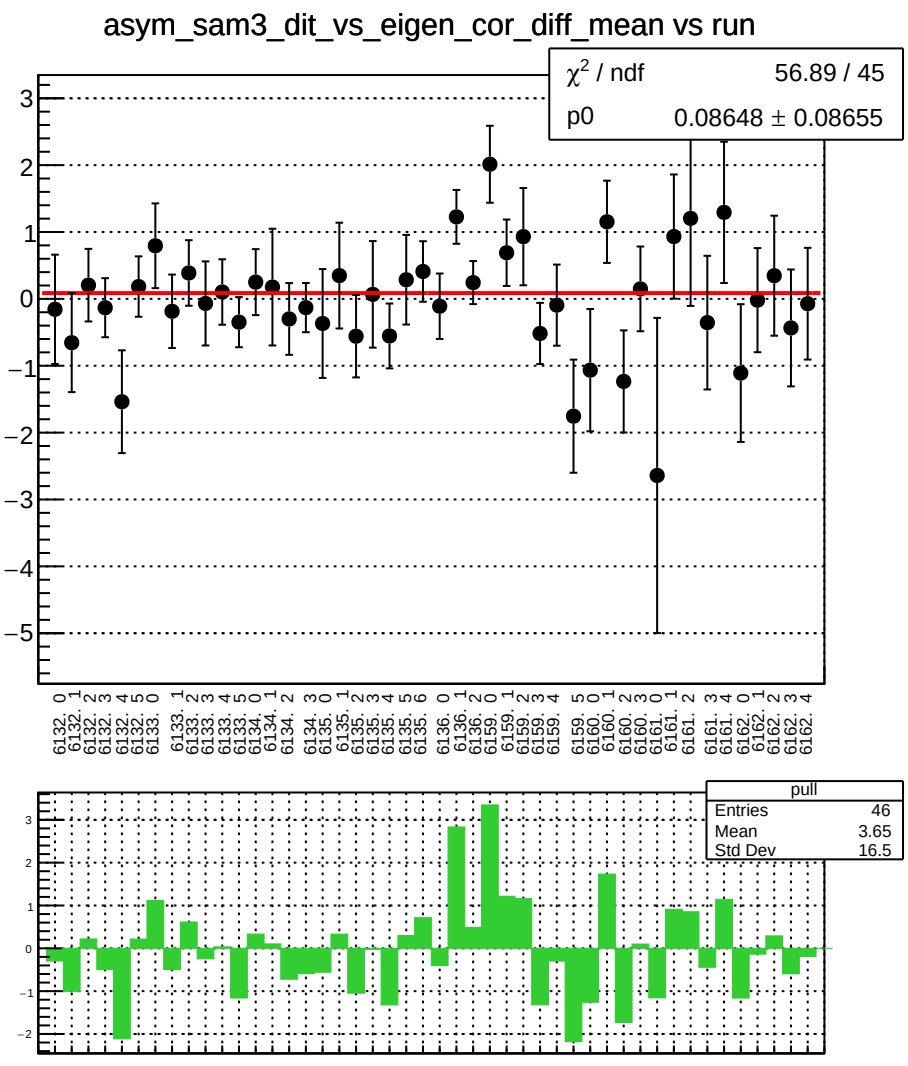

asym_sam3_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 41.05 / 45
p0 1.741e−13 ± 1.521e−13
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 27.51
Std Dev 15.46
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.2596
Std Dev 0.9083
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

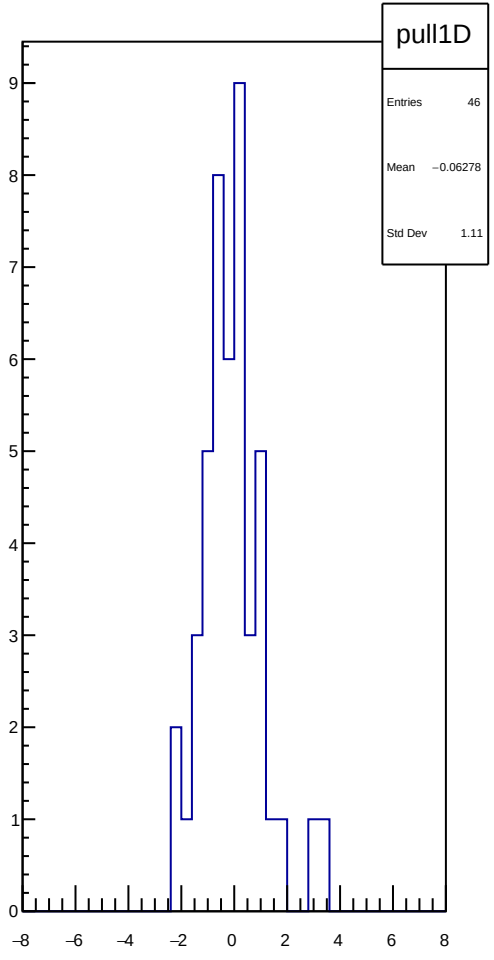

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 4.925e+05 / 45
p0 7.017e−11 ± 1.075e−13
0.025
0.02
0.015
0.01
0.005
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

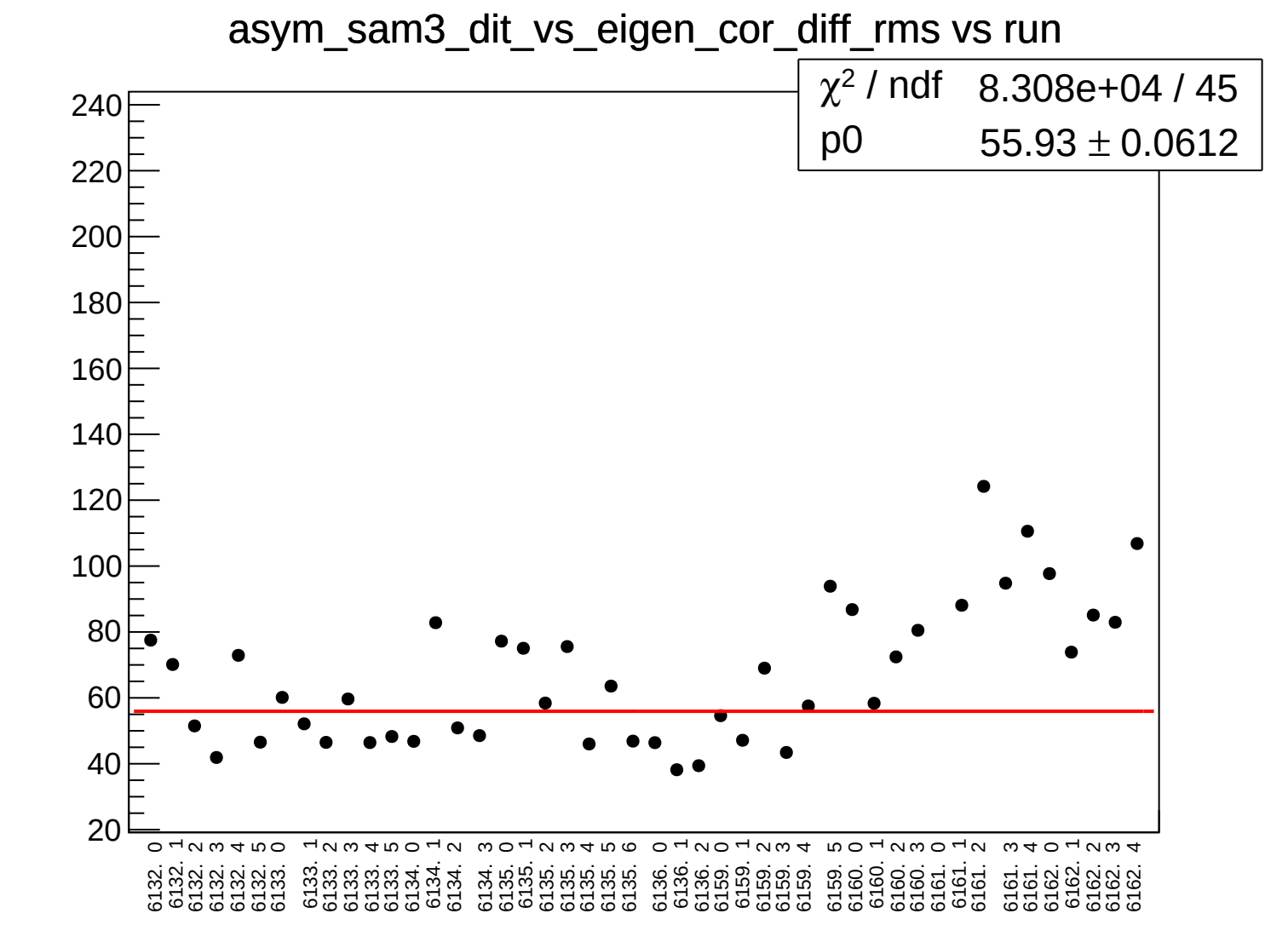

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 56.89 / 45
p0 0.08648 ± 0.08655
pull
Entries 46
Mean 3.65
Std Dev 16.5

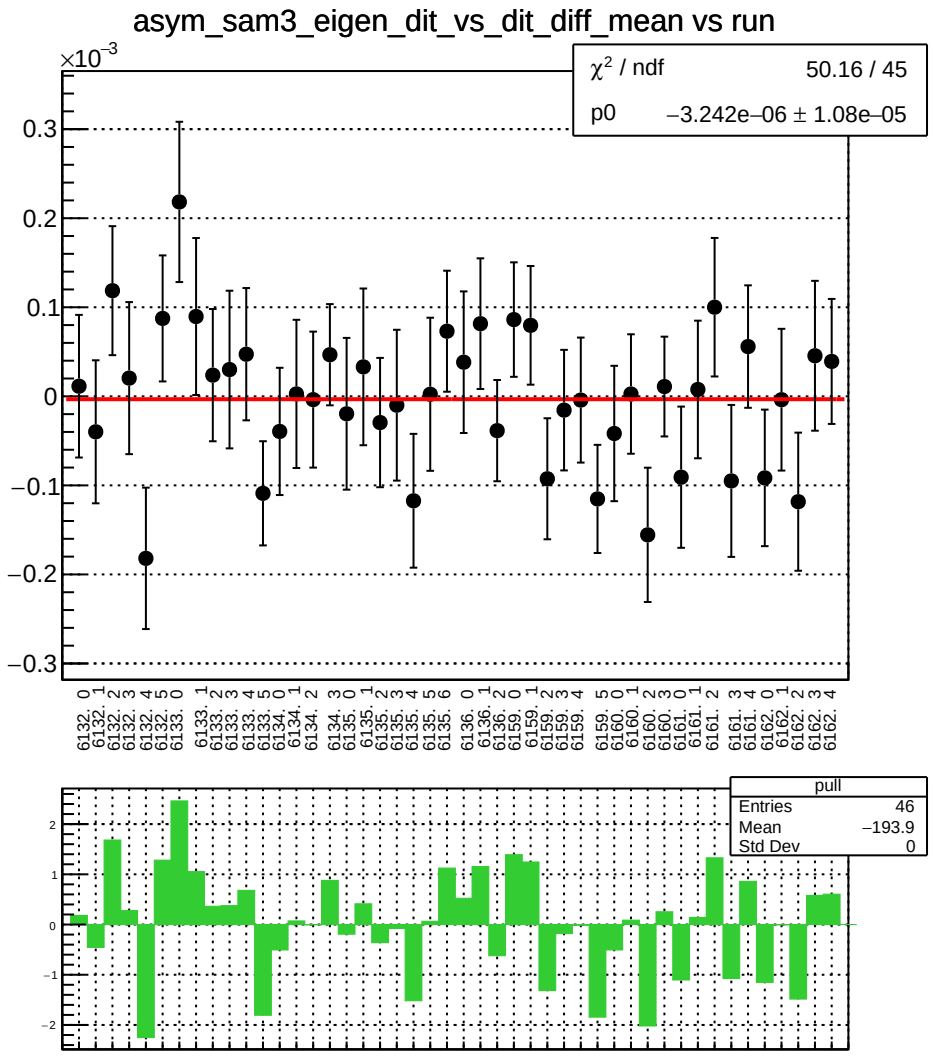

pull1D
Entries 46
Mean −0.06278
Std Dev 1.11

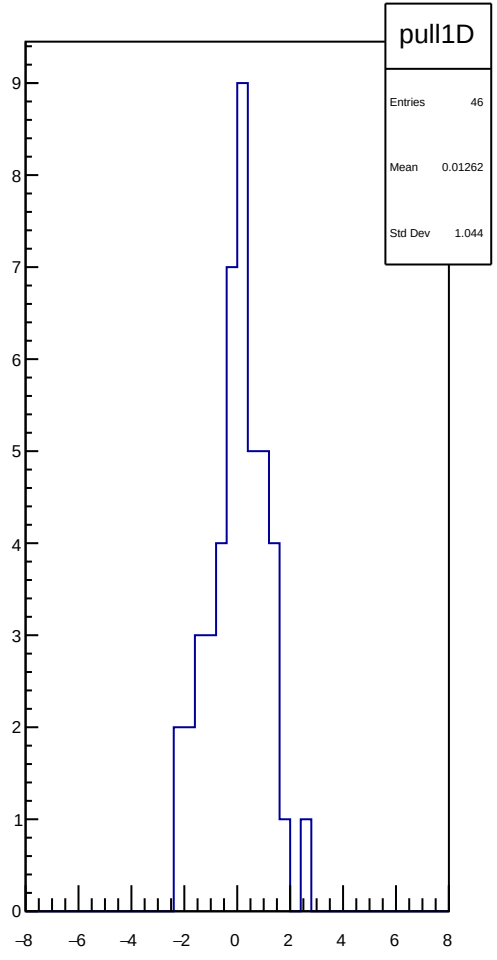

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 8.308e+04 / 45
p0 55.93 ± 0.0612
240
220
200
180
160
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

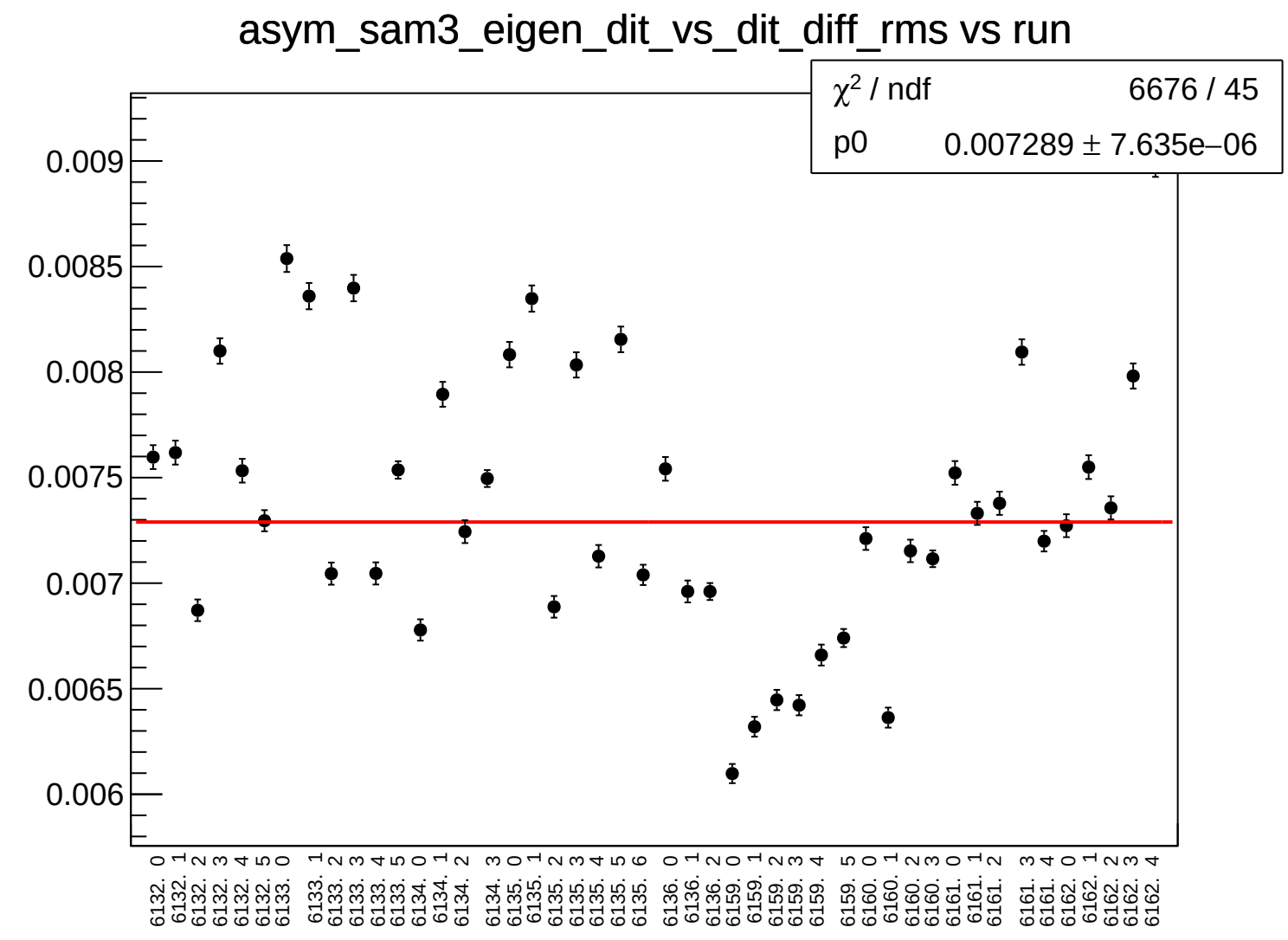

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56.89 / 45
p0 0.08648 ± 0.08655
pull
Entries 46
Mean 3.65
Std Dev 16.5

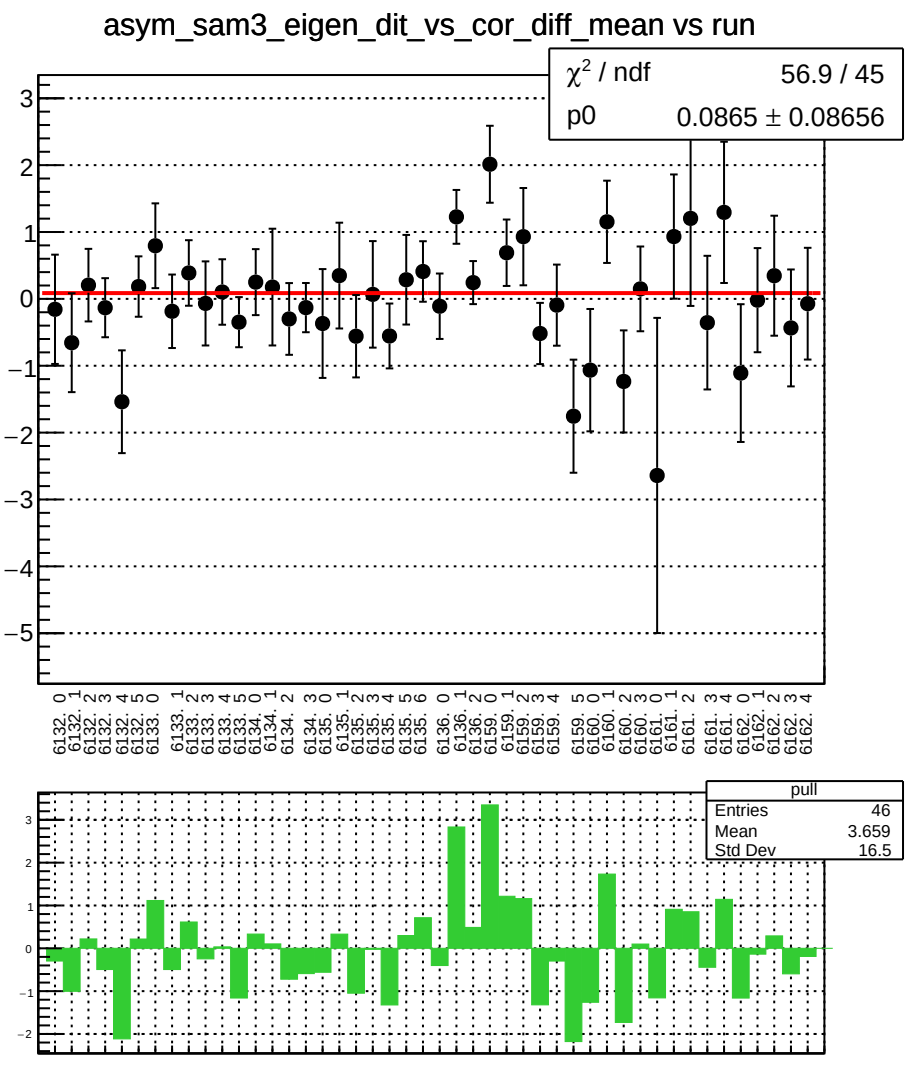

pull1D
Entries 46
Mean −0.06278
Std Dev 1.11

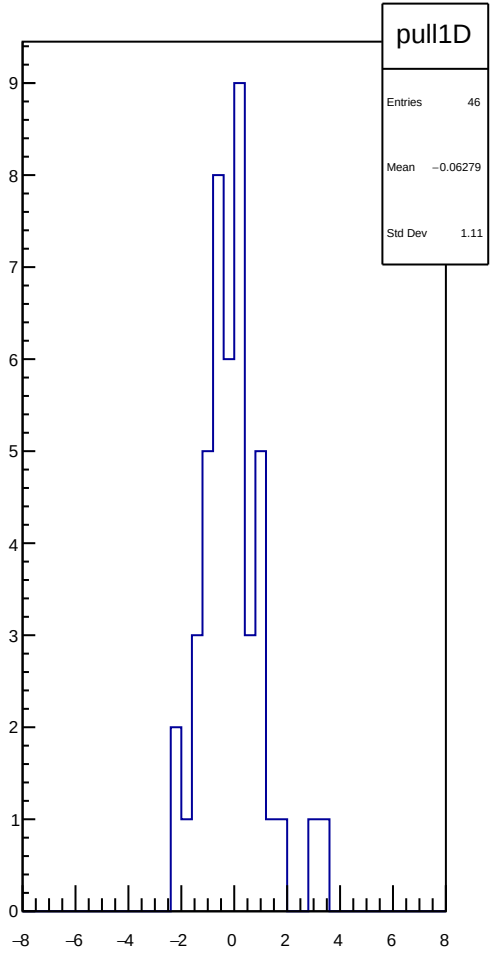

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.308e+04 / 45
p0 55.93 ± 0.0612
240
220
200
180
160
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

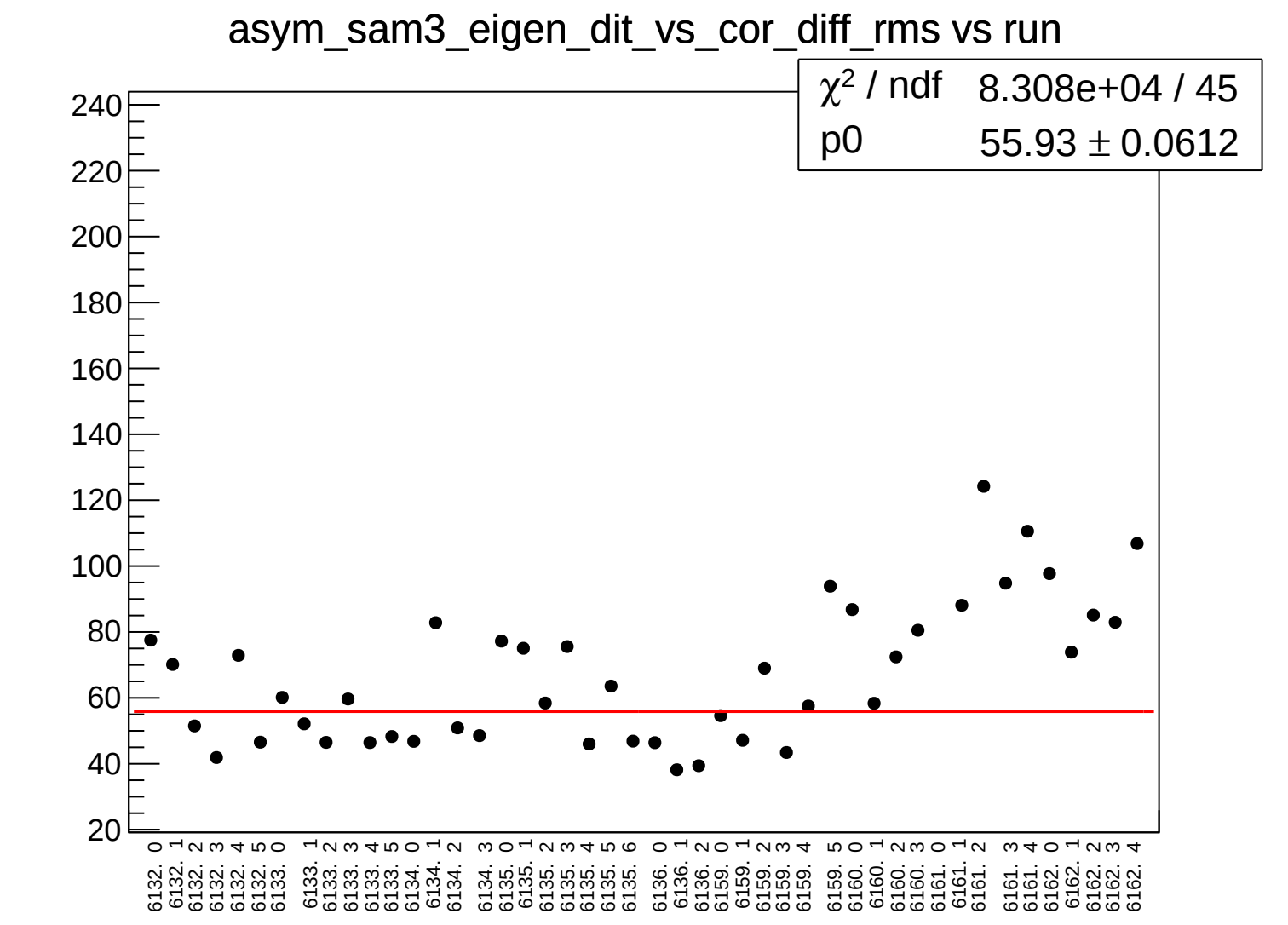

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 50.16 / 45
p0 −3.242e−06 ± 1.08e−05
pull
Entries 46
Mean −193.9
Std Dev 0

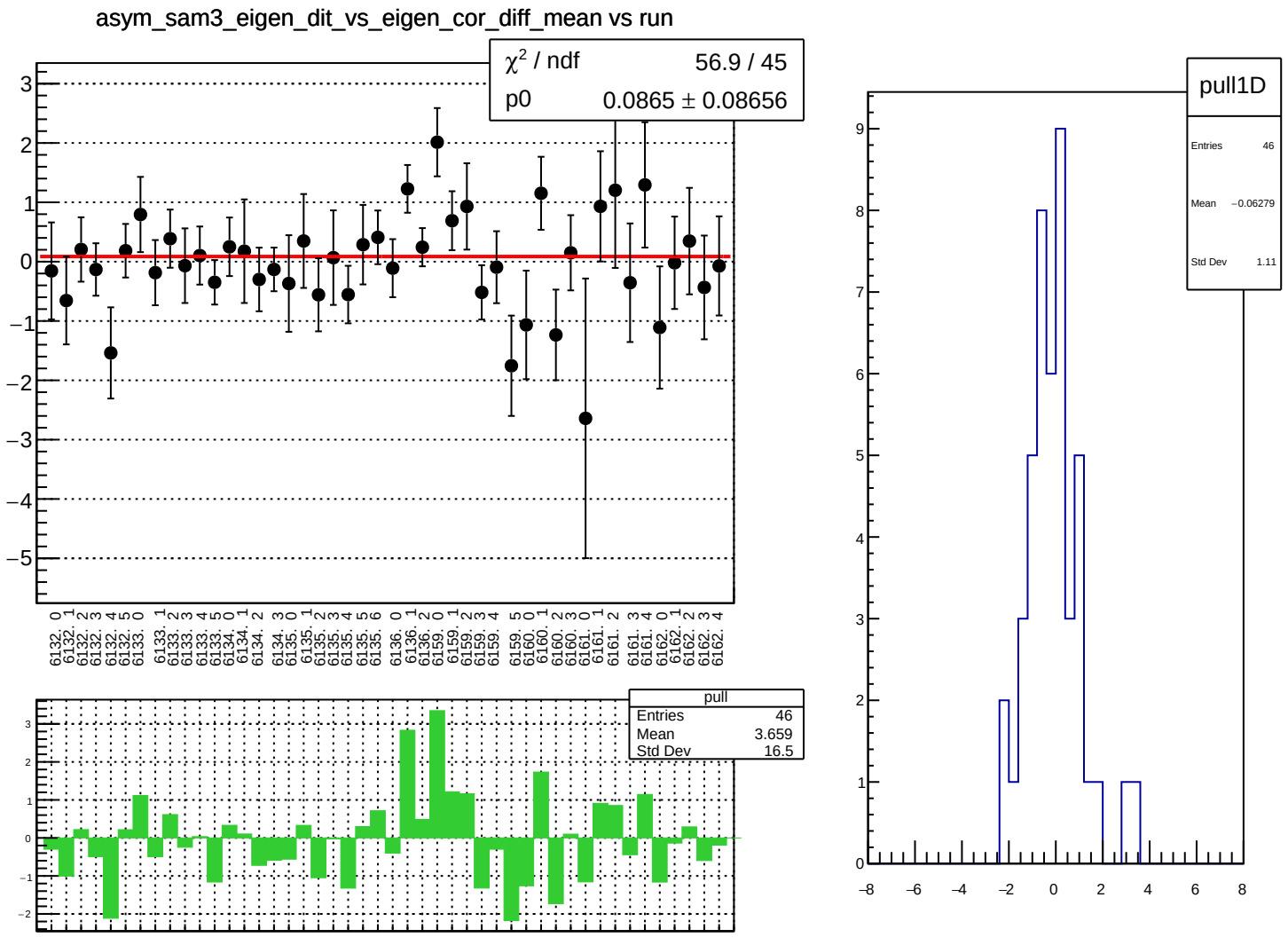

pull1D
Entries 46
Mean 0.01262
Std Dev 1.044

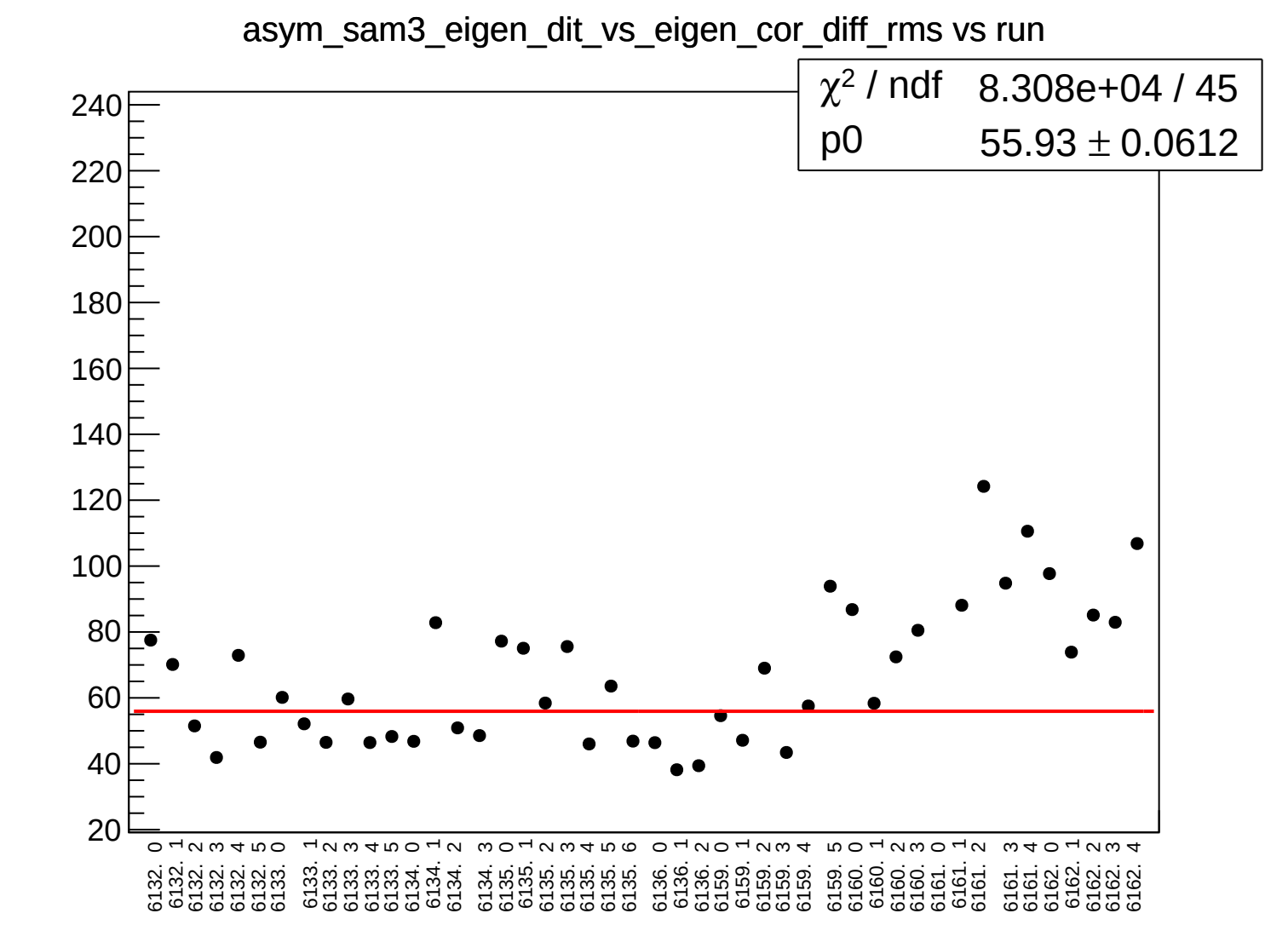

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6676 / 45
p0 0.007289 ± 7.635e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

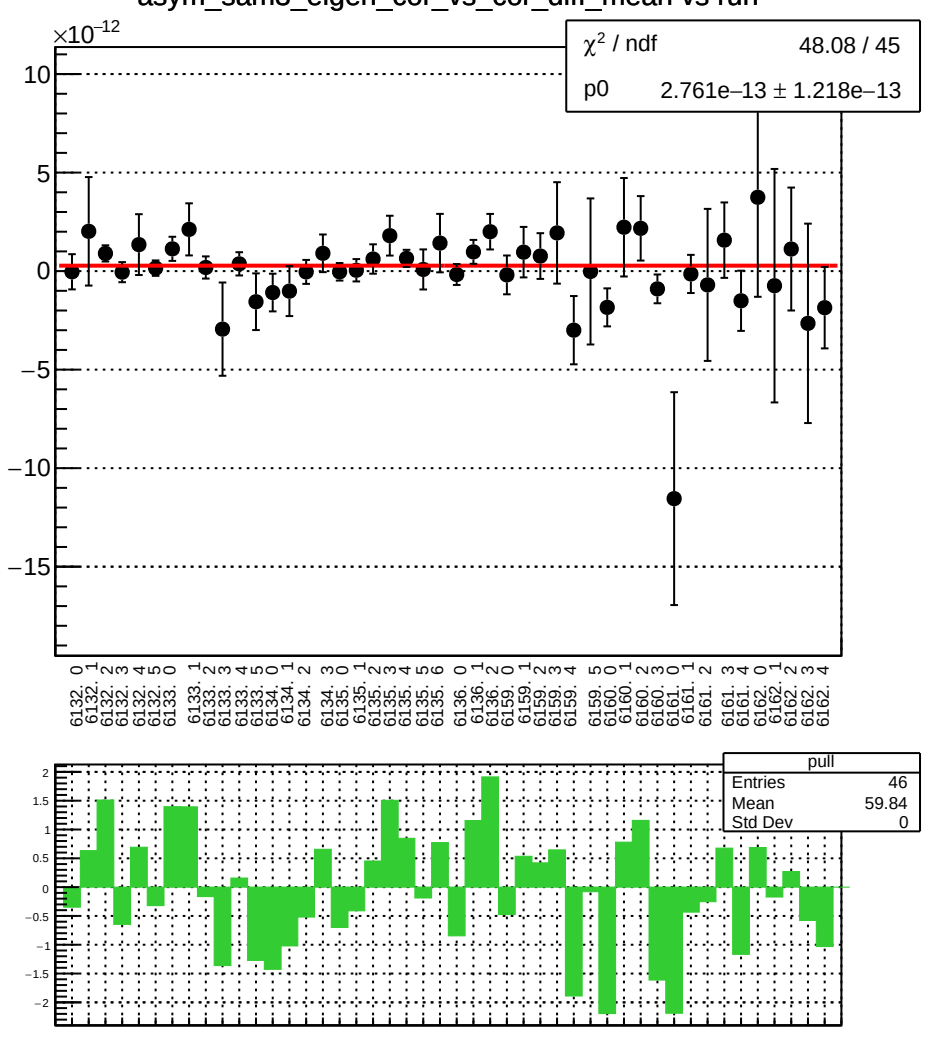

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 56.9 / 45
p0 0.0865 ± 0.08656
pull
Entries 46
Mean 3.659
Std Dev 16.5

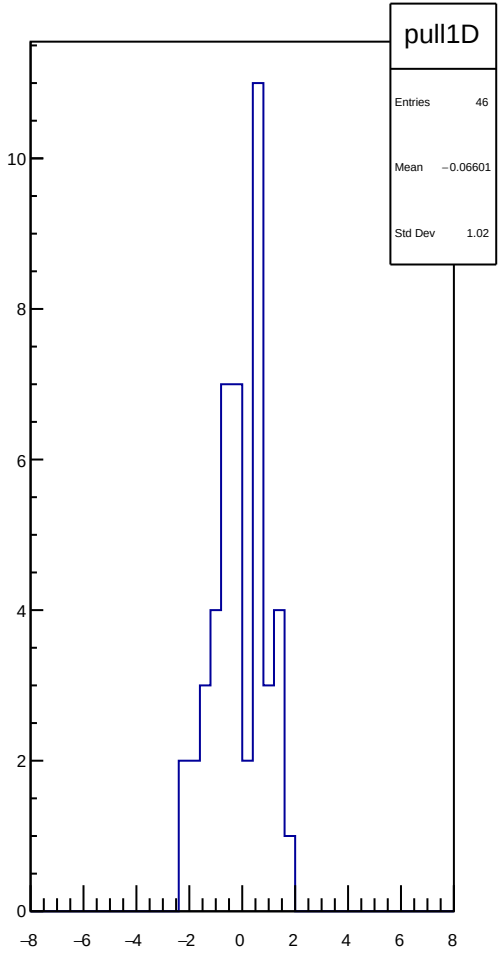

pull1D
Entries 46
Mean −0.06279
Std Dev 1.11

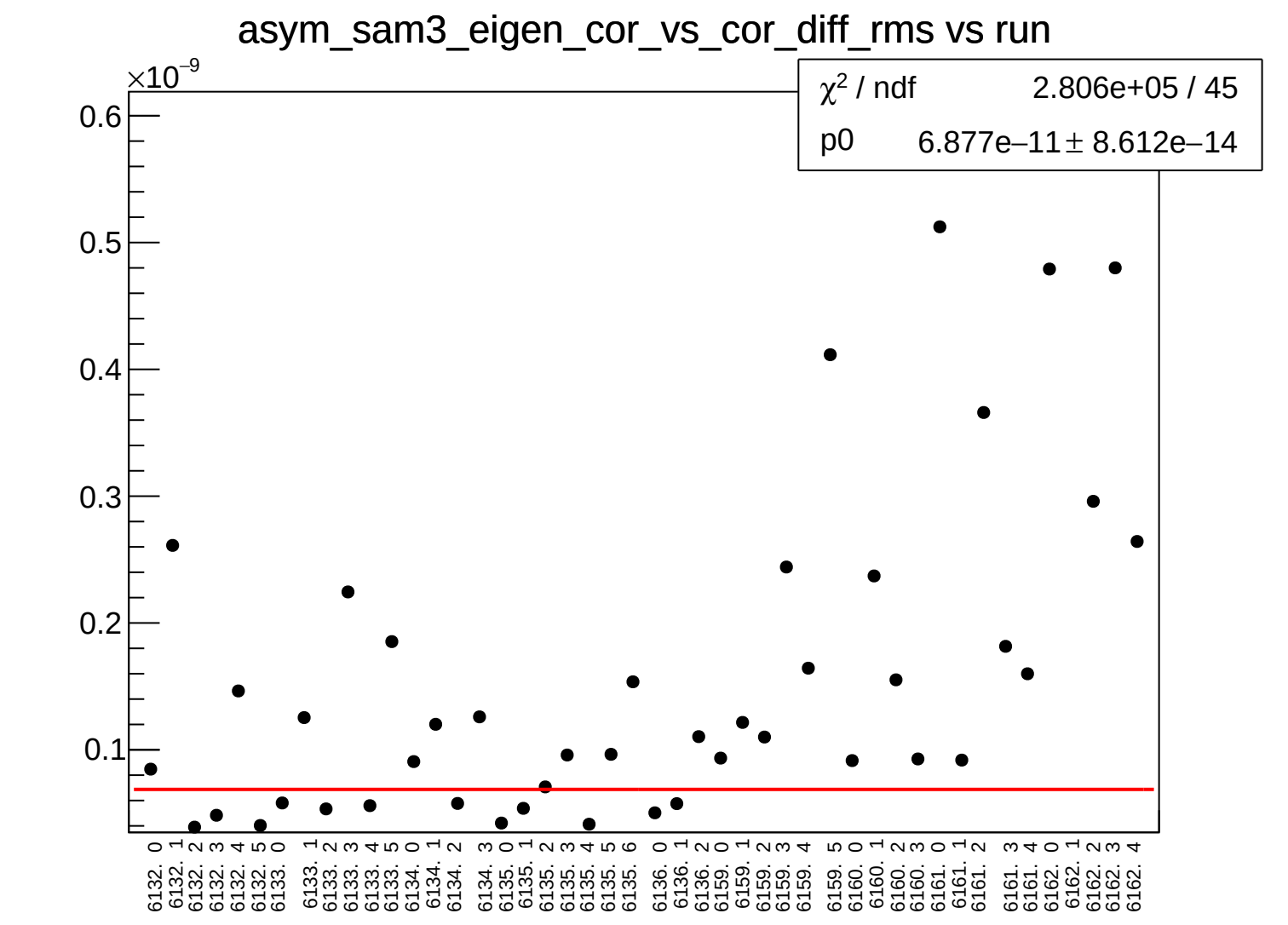

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.308e+04 / 45
p0 55.93 ± 0.0612
240
220
200
180
160
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

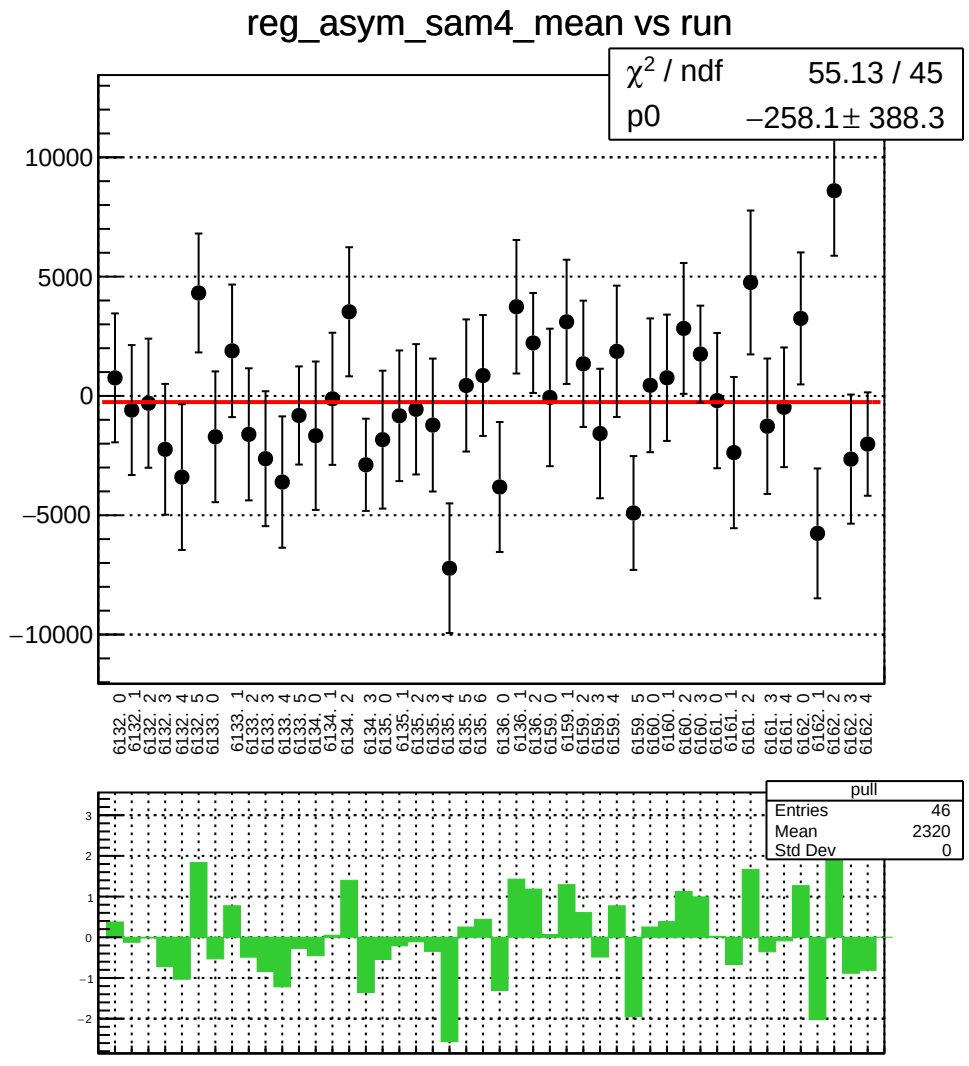

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56.9 / 45
p0 0.0865 ± 0.08656
pull
Entries 46
Mean 3.659
Std Dev 16.5
pull1D
Entries 46
Mean −0.06279
Std Dev 1.11


asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.308e+04 / 45
p0 55.93 ± 0.0612
240
220
200
180
160
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 48.08 / 45
p0 2.761e−13 ± 1.218e−13
pull
Entries 46
Mean 59.84
Std Dev 0


pull1D
Entries 46
Mean −0.06601
Std Dev 1.02


asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.806e+05 / 45
p0 6.877e−11 ± 8.612e−14
0.6
0.5
0.4
0.3
0.2
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_sam4_mean vs run
χ² / ndf 55.13 / 45
p0 −258.1± 388.3
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 2320
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.0009276
Std Dev 1.095
8
7
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5
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3
2
1
0
−8
−6
−4
−2
0
2
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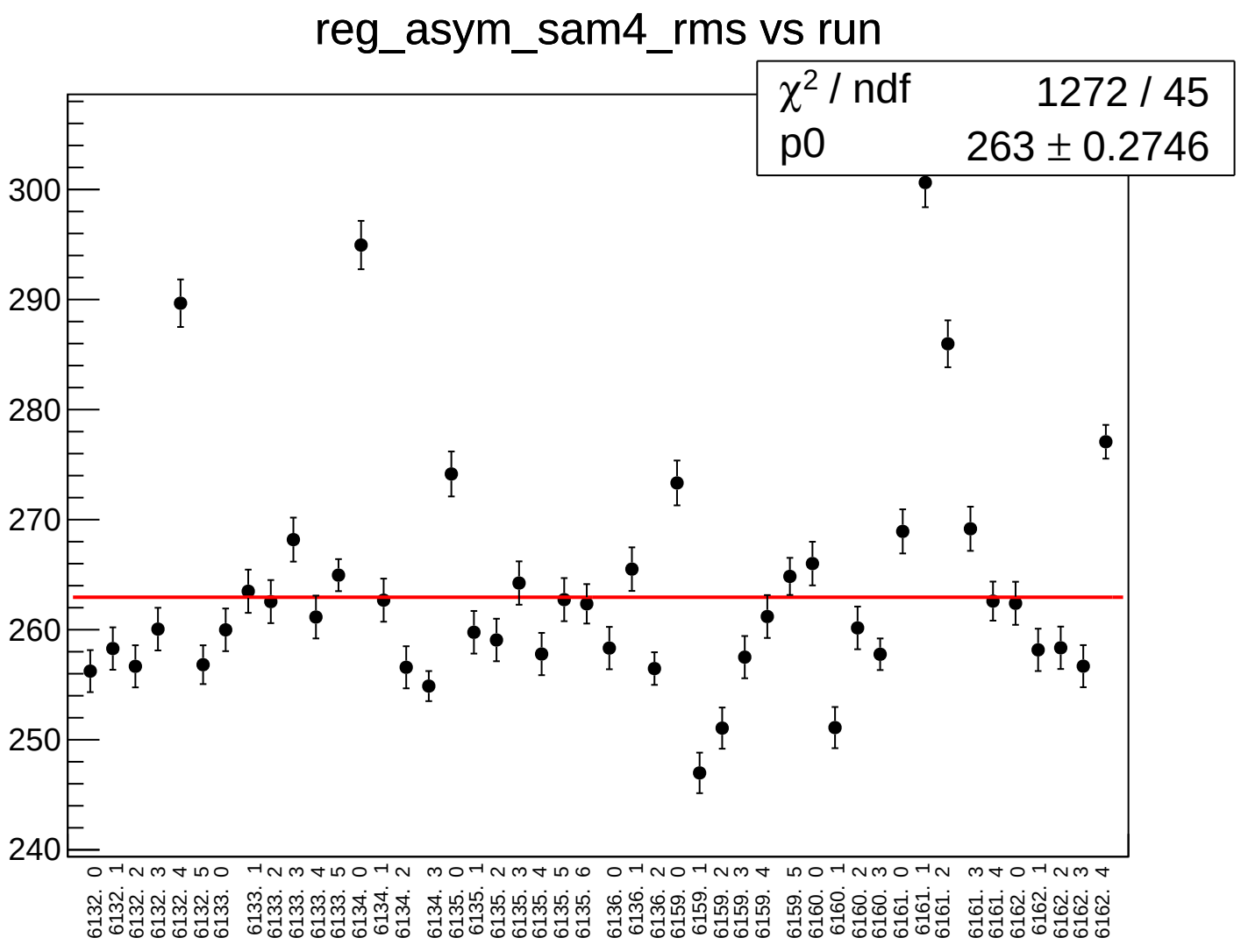
6
8


reg_asym_sam4_rms vs run
χ² / ndf 1272 / 45
p0 263 ± 0.2746
300
290
280
270
260
250
240
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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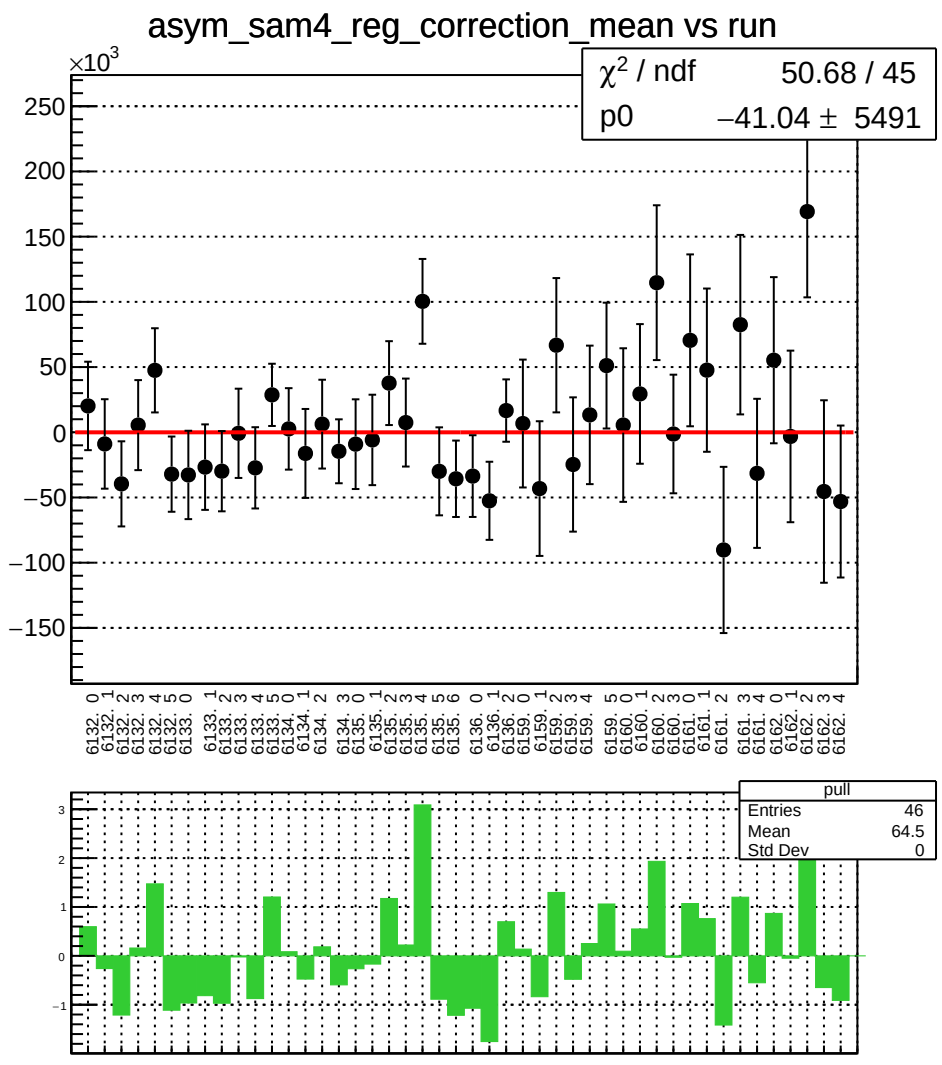
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 50.68 / 45
p0 −41.04 ± 5491
250
200
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 64.5
Std Dev 0
3
2
1
0
−1
pull1D
Entries 46
Mean 0.06771
Std Dev 1.047
9
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7
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5
4
3
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1
0
−8
−6
−4
−2
0
2
4
6
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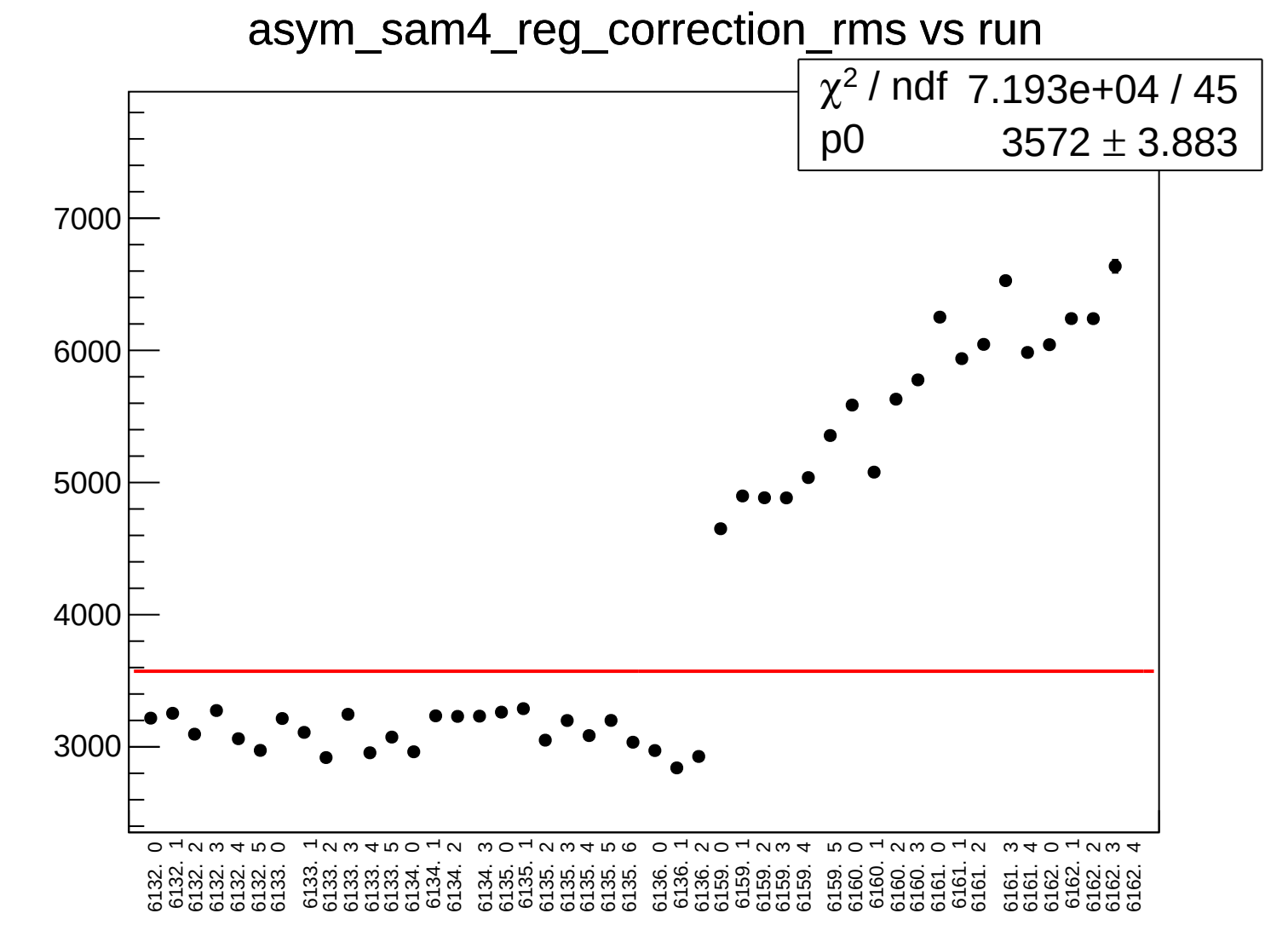
asym_sam4_reg_correction_rms vs run
χ² / ndf 7.193e+04 / 45
p0 3572 ± 3.883
7000
6000
5000
4000
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6136. 0
6136. 1
6136. 2
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6159. 4
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6160. 0
6160. 1
6160. 2
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6161. 2
6161. 3
6161. 4
6162. 0
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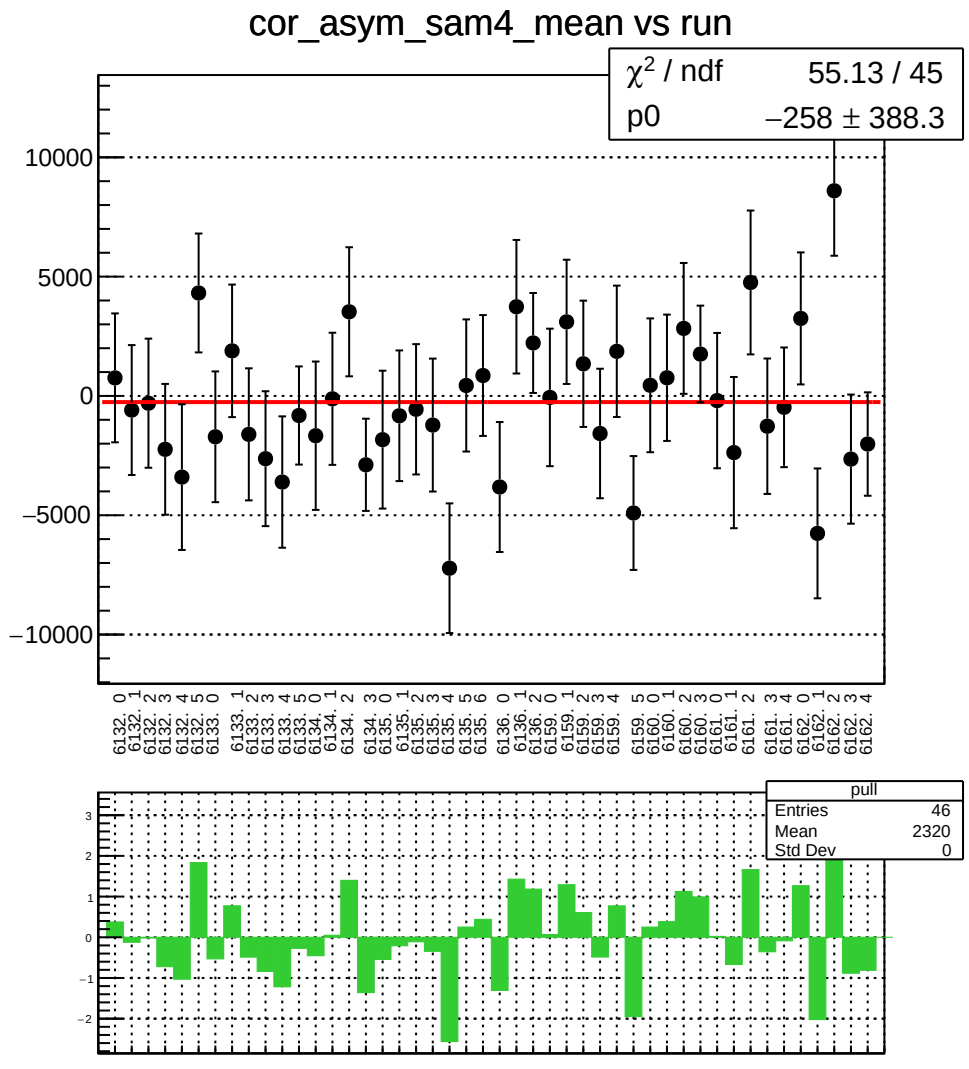
6162. 2
6162. 3
6162. 4


cor_asym_sam4_mean vs run
χ² / ndf 55.13 / 45
p0 −258 ± 388.3
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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
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6136. 2
6159. 0
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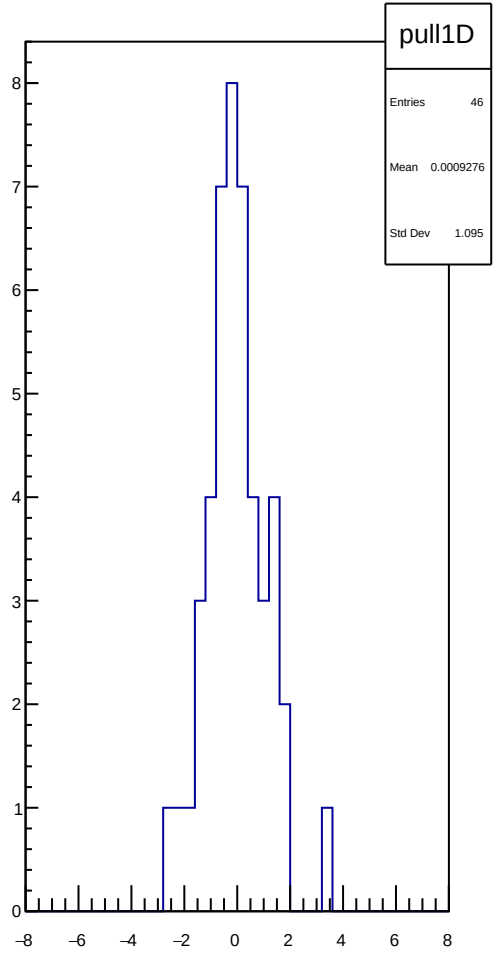
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 2320
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.0009276
Std Dev 1.095
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−2
0
2
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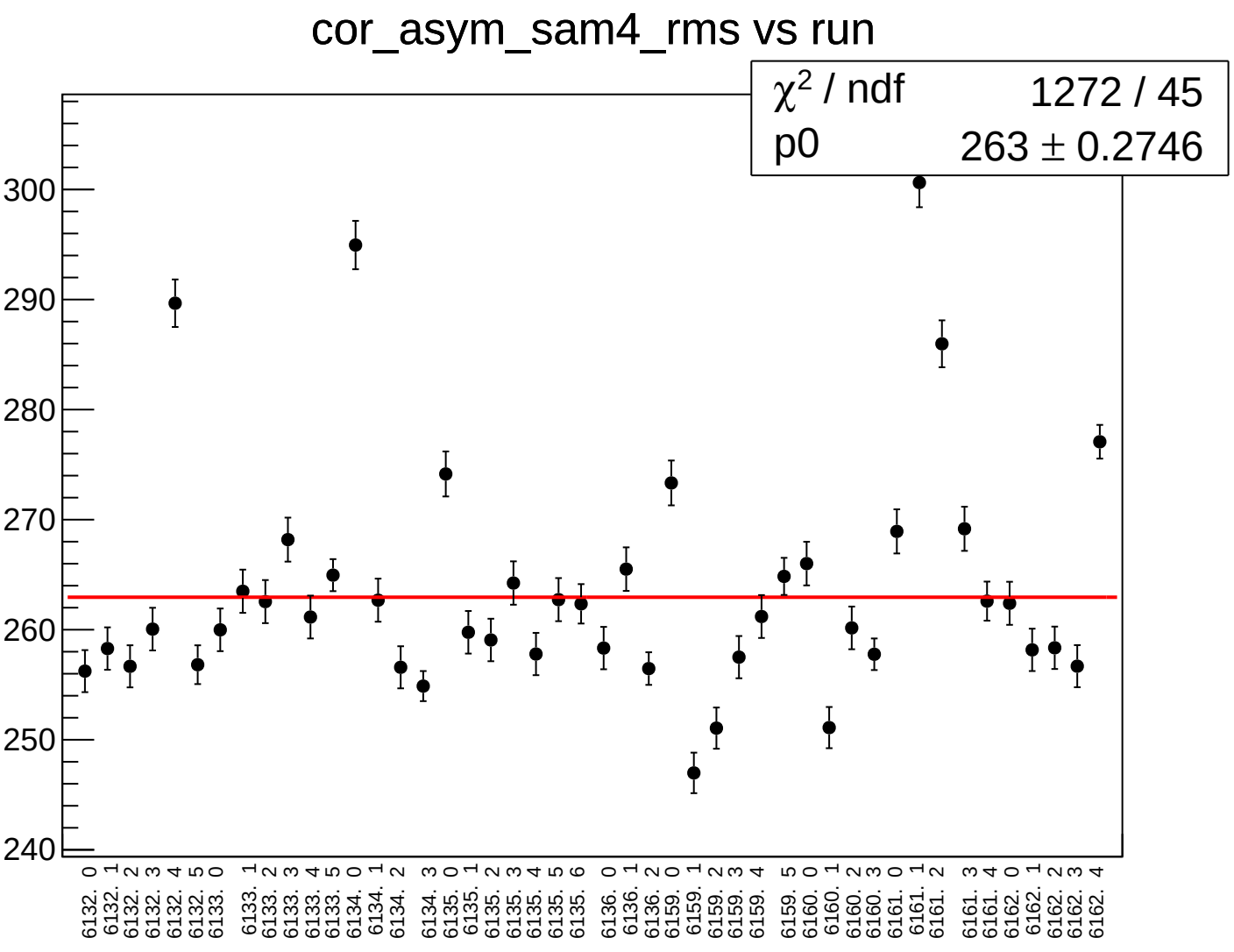
cor_asym_sam4_rms vs run
χ² / ndf 1272 / 45
p0 263 ± 0.2746
300
290
280
270
260
250
240
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
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6133. 3
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6134. 0
6134. 1
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6134. 3
6135. 0
6135. 1
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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
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6162. 2
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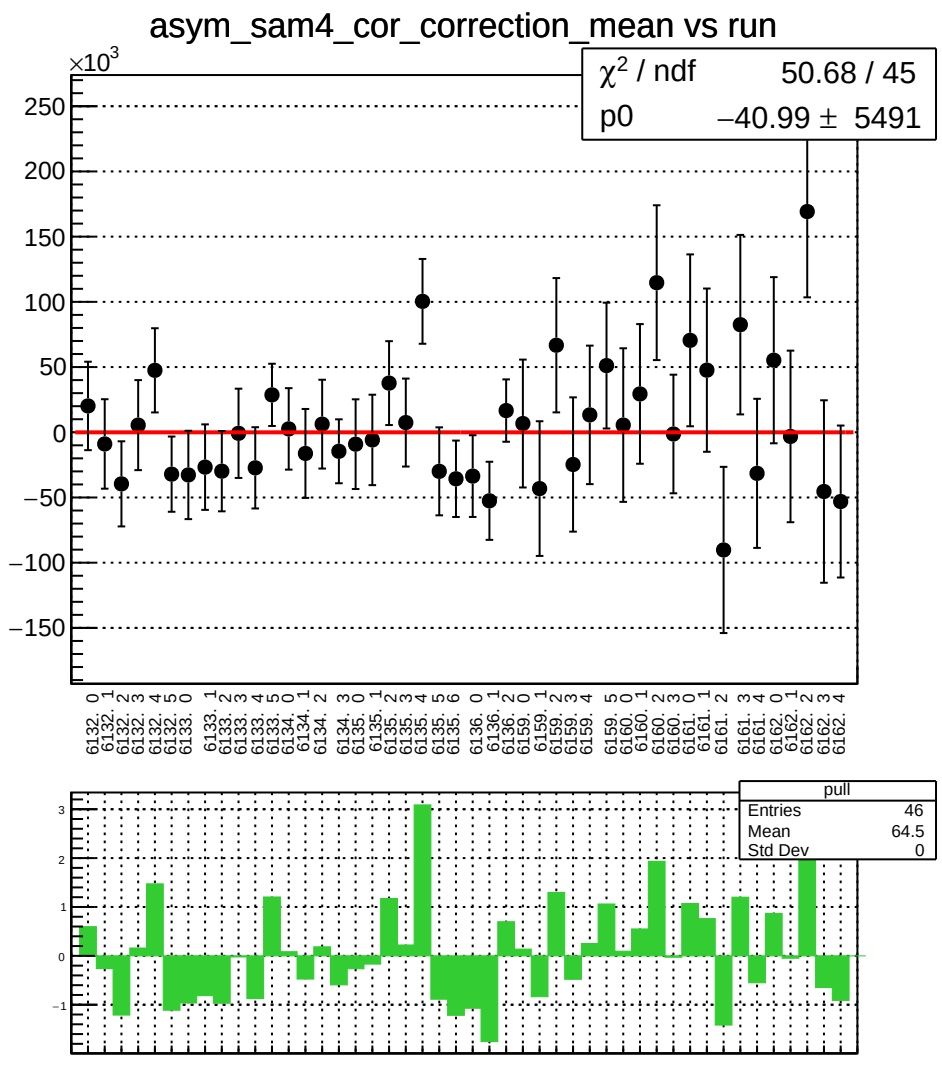
6162. 4


asym_sam4_cor_correction_mean vs run
×10^3
χ^2 / ndf 50.68 / 45
p0 −40.99 ± 5491
250
200
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6134. 0
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6134. 2
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6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 64.5
Std Dev 0
3
2
1
0
−1
pull1D
Entries 46
Mean 0.06771
Std Dev 1.047
9
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−8
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−4
−2
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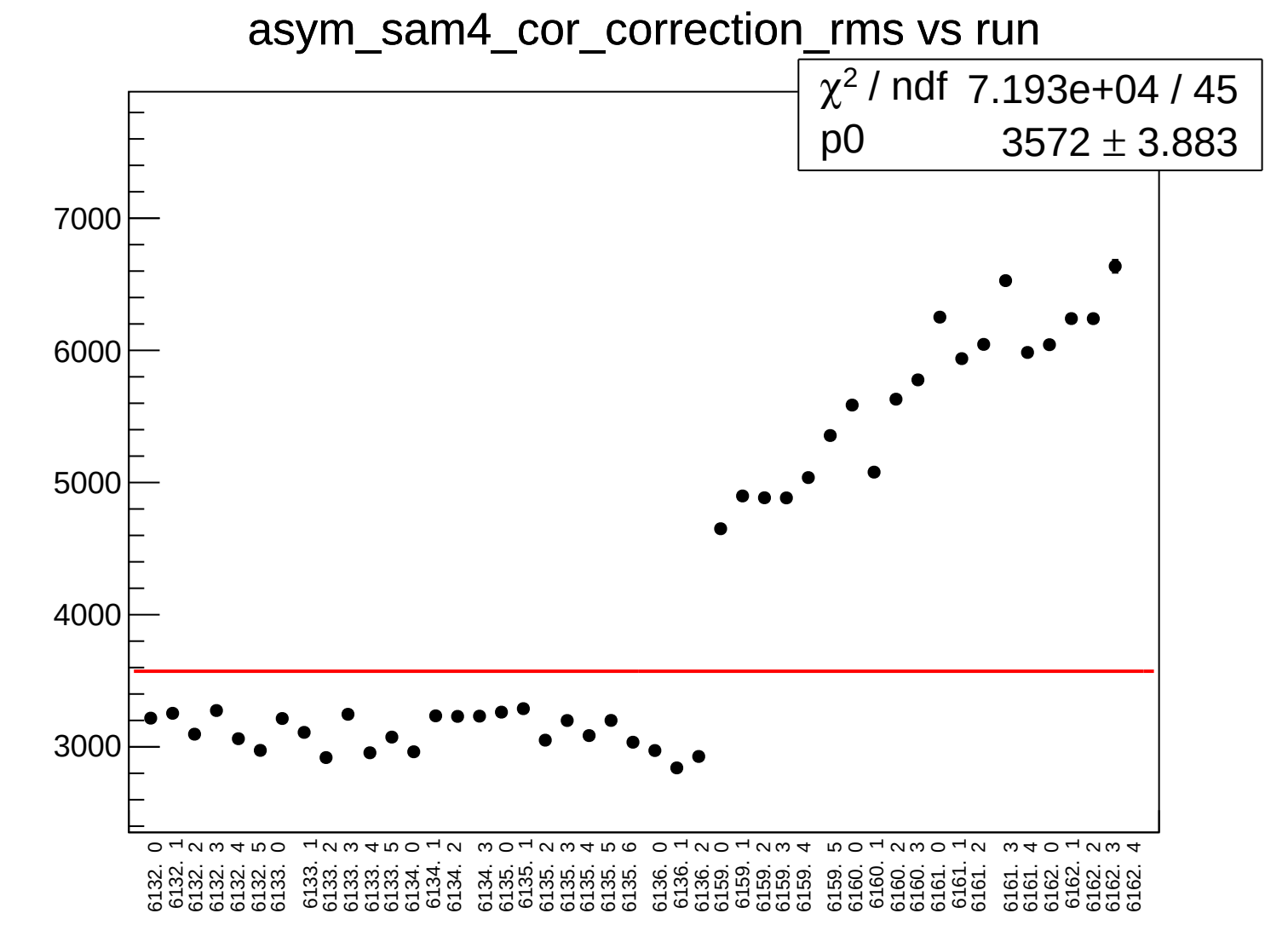
asym_sam4_cor_correction_rms vs run
χ² / ndf 7.193e+04 / 45
p0 3572 ± 3.883
7000
6000
5000
4000
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
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6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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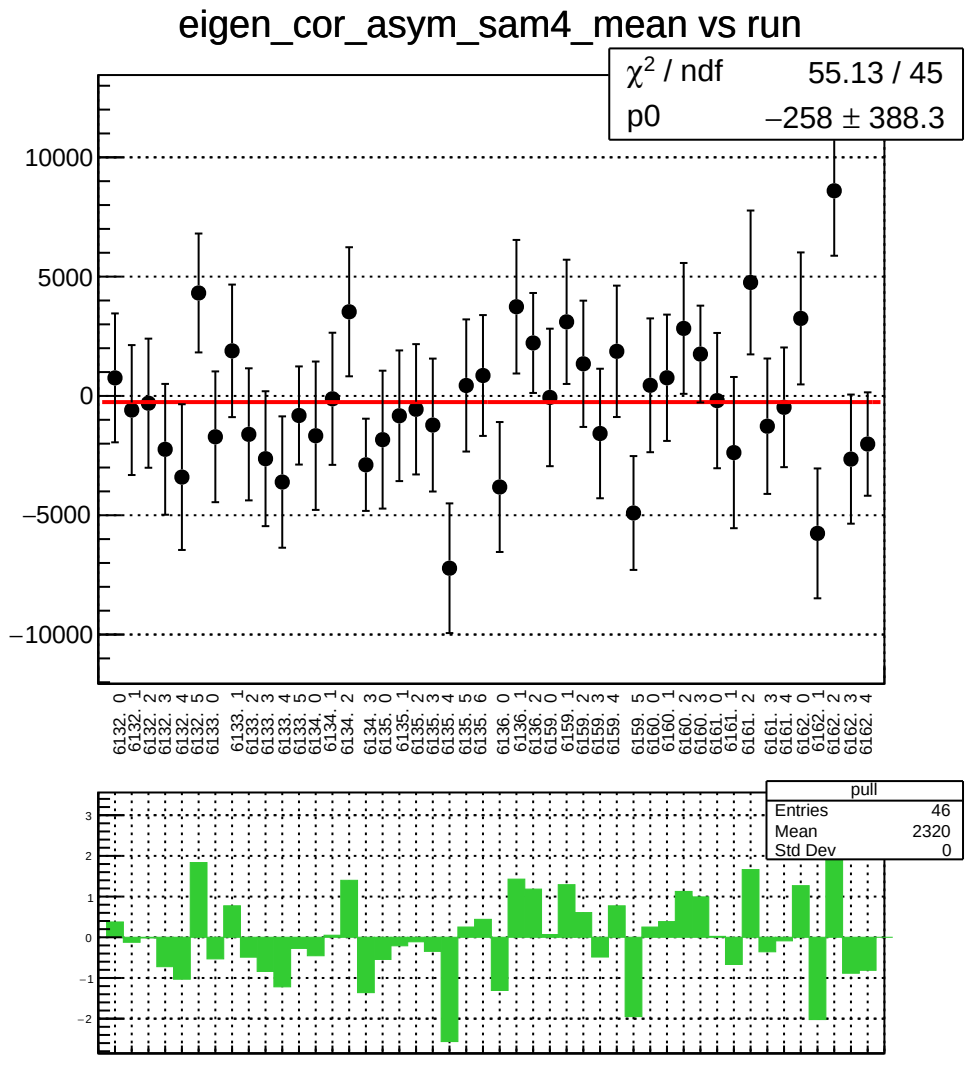
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_sam4_mean vs run
χ² / ndf 55.13 / 45
p0 −258 ± 388.3
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
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6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
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6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 2320
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.0009276
Std Dev 1.095
8
7
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−8
−6
−4
−2
0
2
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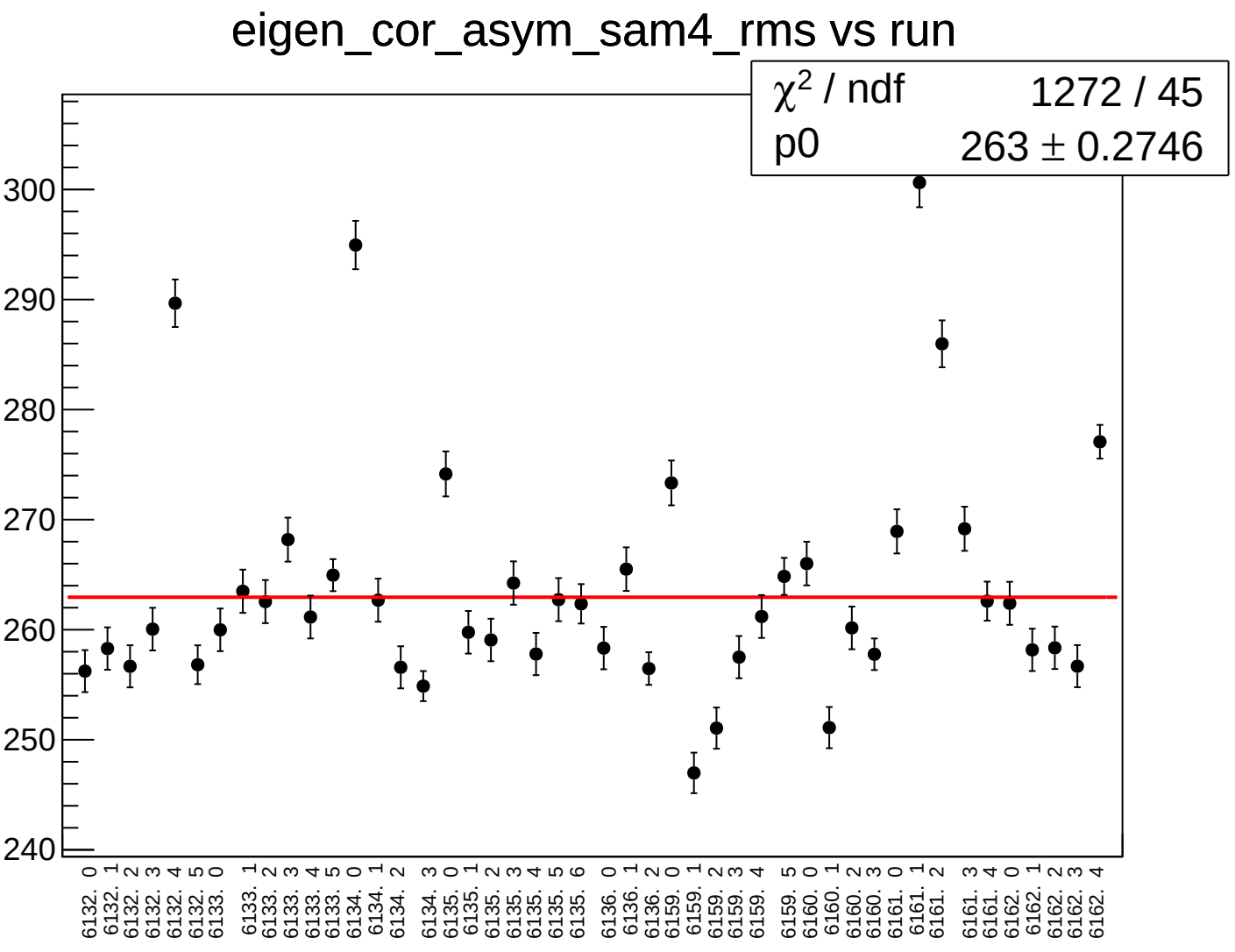
eigen_cor_asym_sam4_rms vs run
χ² / ndf 1272 / 45
p0 263 ± 0.2746
300
290
280
270
260
250
240
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
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6133. 5
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6135. 6
6136. 0
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6160. 0
6160. 1
6160. 2
6160. 3
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6162. 0
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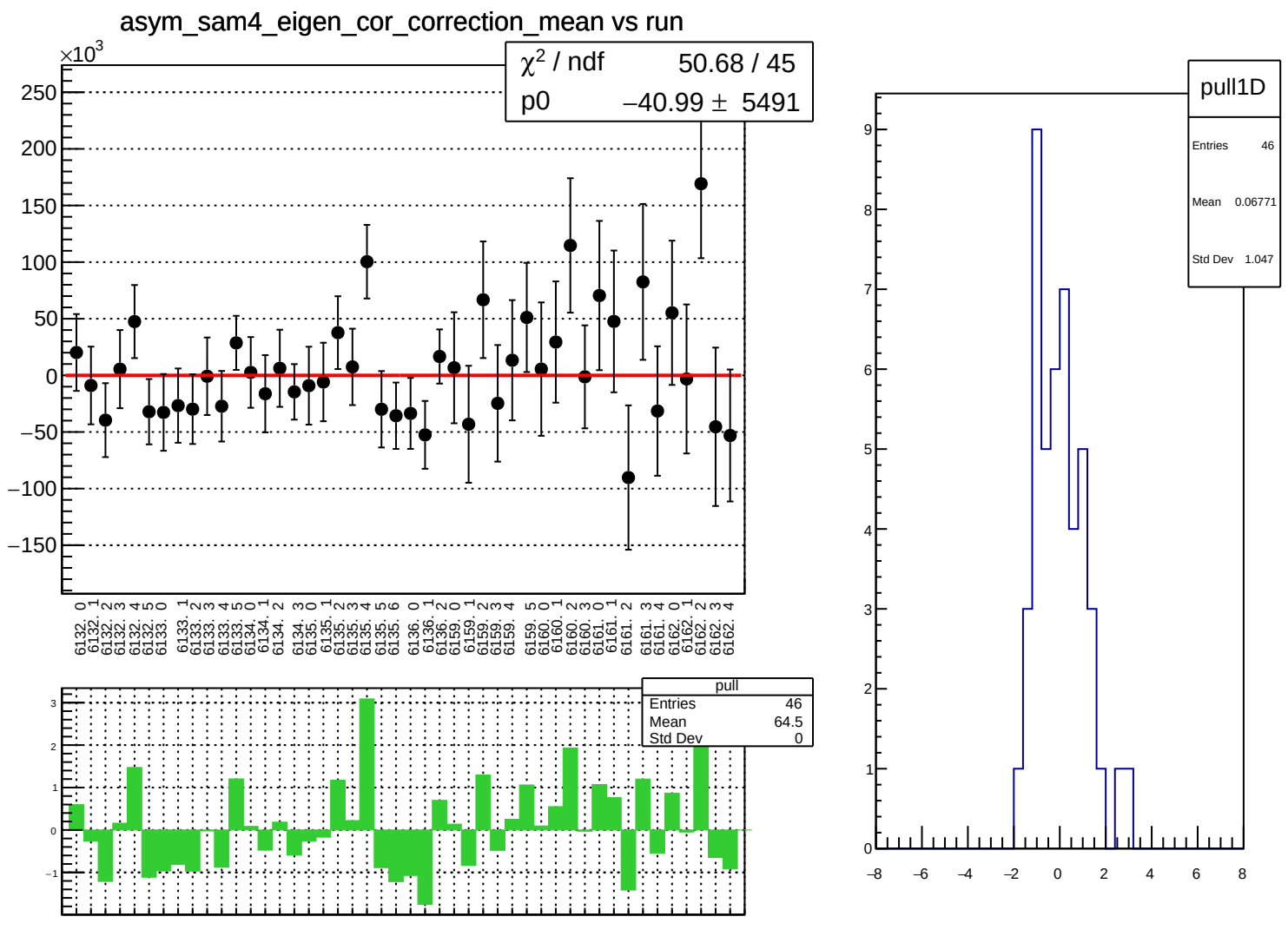
6162. 4


asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 50.68 / 45
p0 −40.99 ± 5491
250
200
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
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6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 64.5
Std Dev 0
3
2
1
0
−1
pull1D
Entries 46
Mean 0.06771
Std Dev 1.047
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
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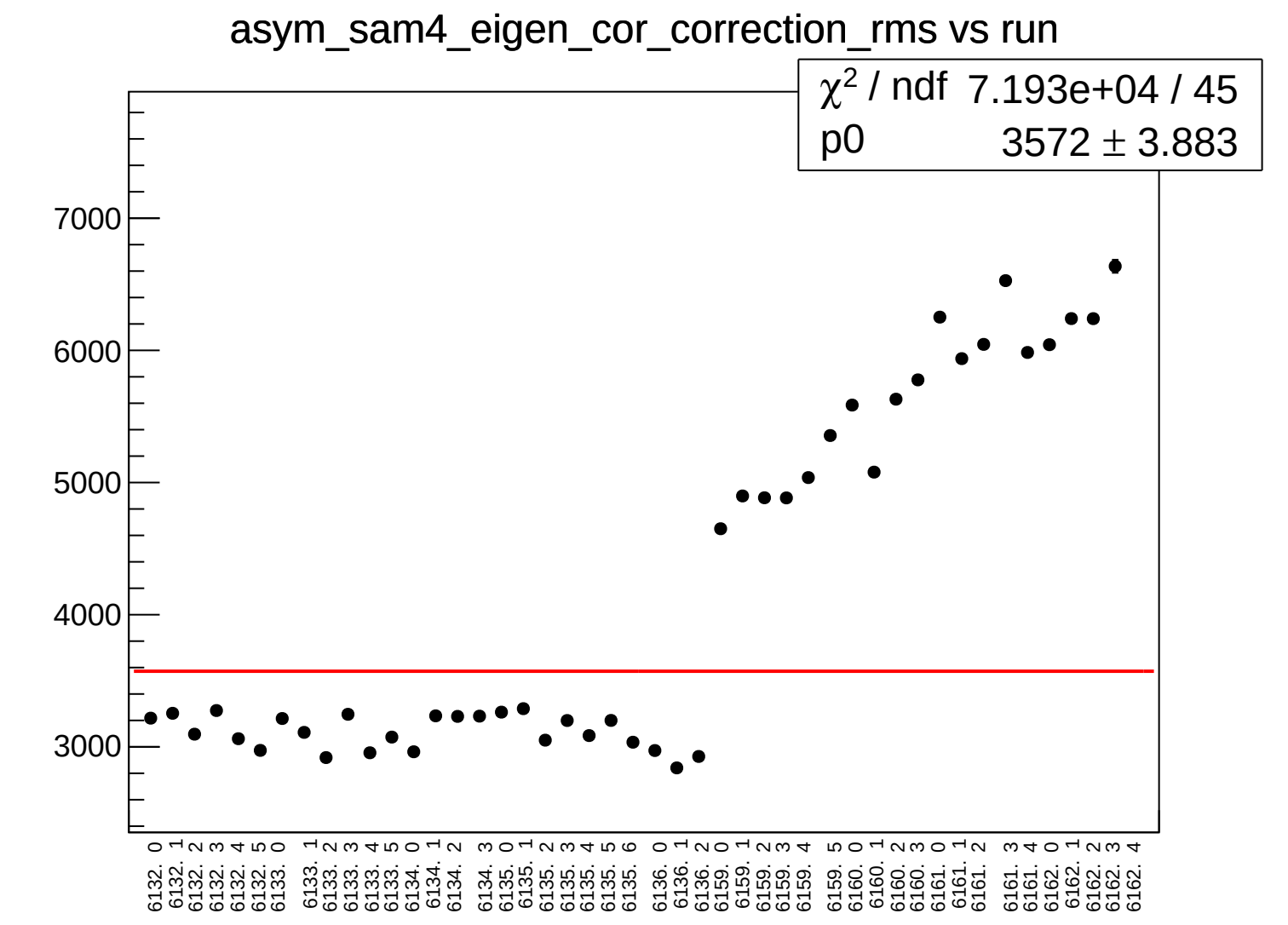
6
8


asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 7.193e+04 / 45
p0 3572 ± 3.883
7000
6000
5000
4000
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6162. 0
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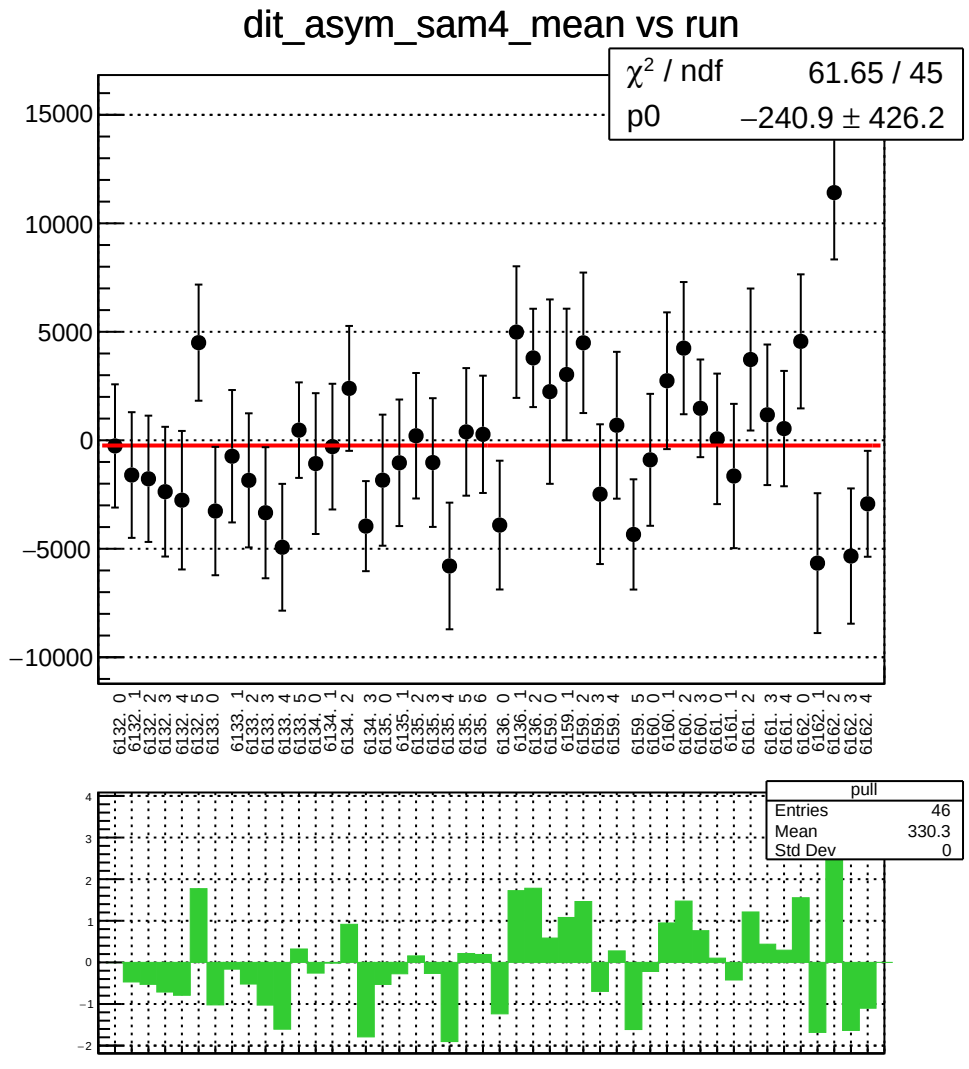
6162. 3
6162. 4


dit_asym_sam4_mean vs run
χ² / ndf 61.65 / 45
p0 −240.9 ± 426.2
15000
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 1
6133. 2
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6135. 6
6136. 0
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6136. 2
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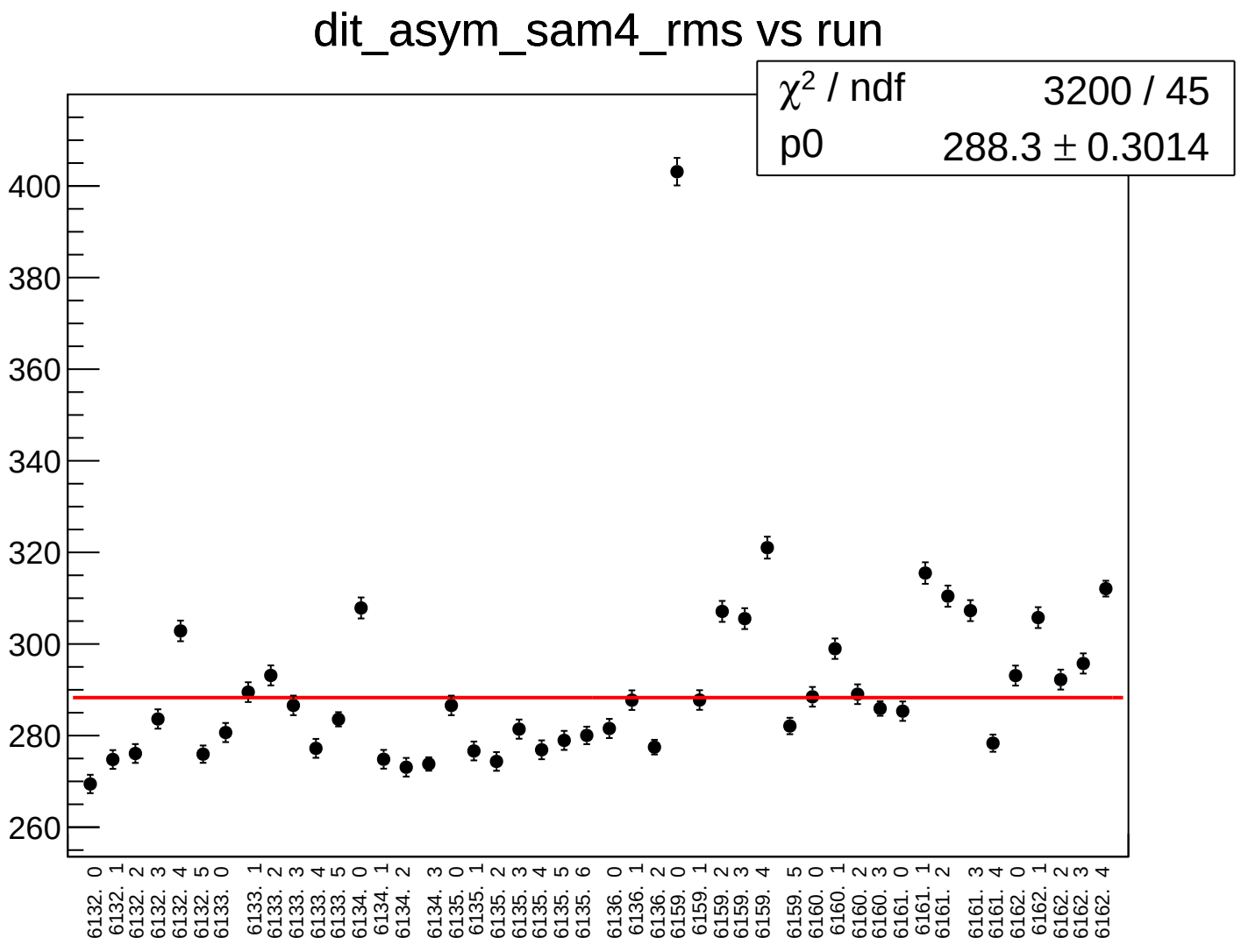
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 330.3
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.01225
Std Dev 1.158
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam4_rms vs run
χ² / ndf 3200 / 45
p0 288.3 ± 0.3014
400
380
360
340
320
300
280
260
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6160. 1
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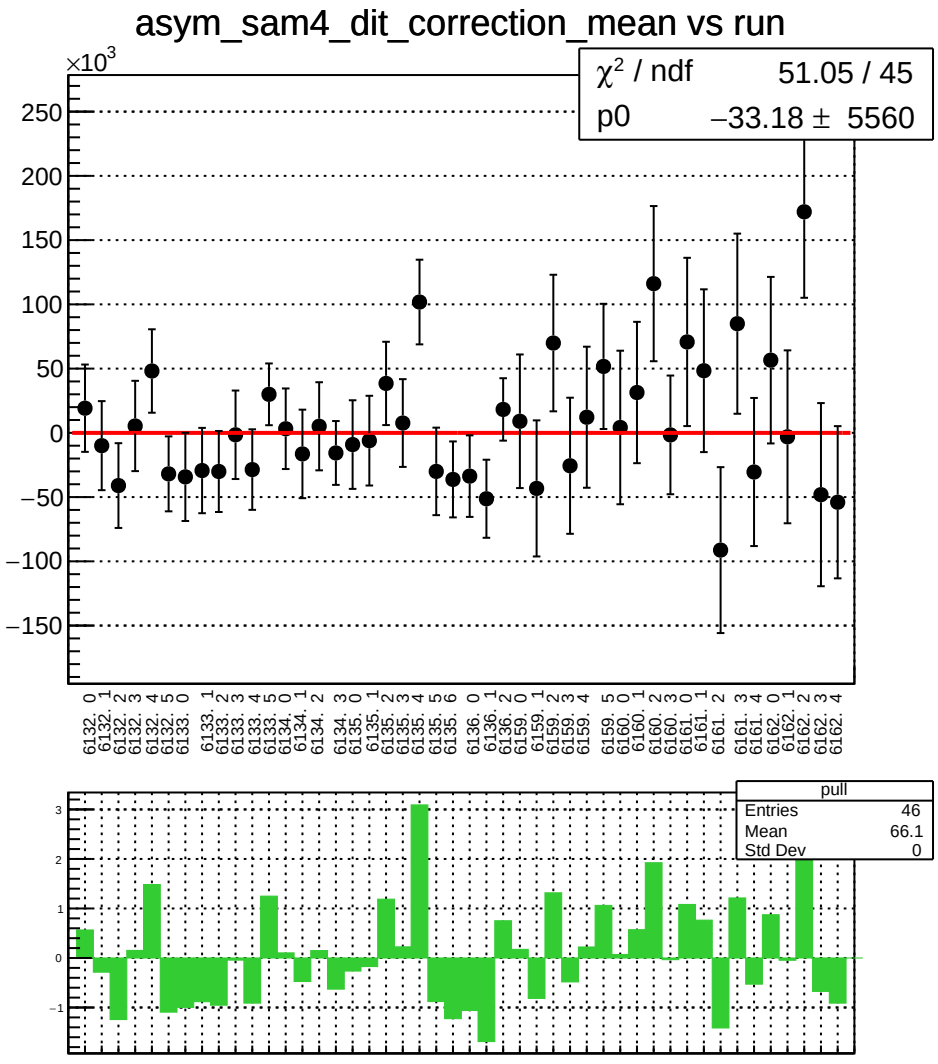
6162. 4


asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 51.05 / 45
p0 −33.18 ± 5560
250
200
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
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6132. 5
6133. 0
6133. 1
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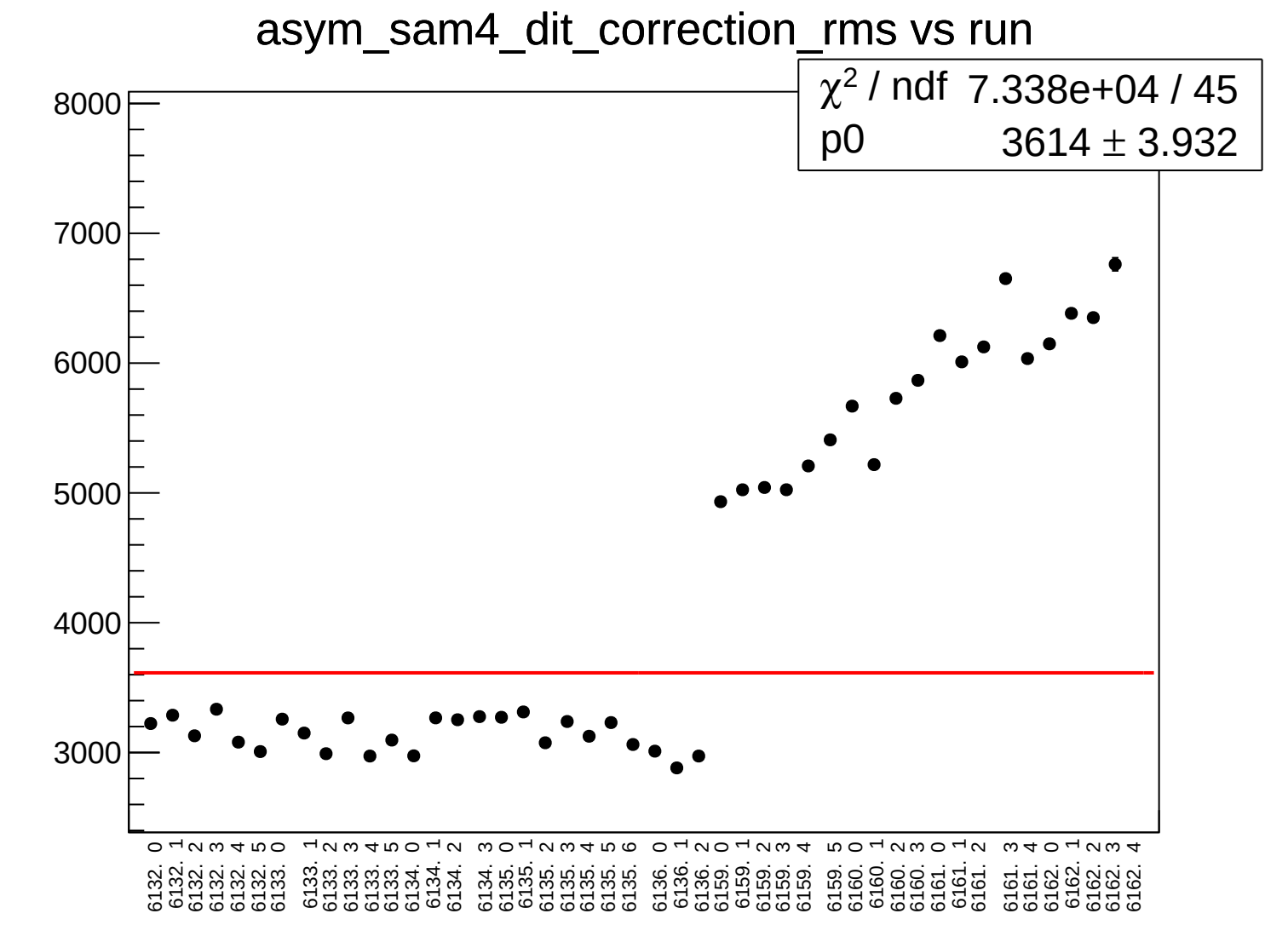
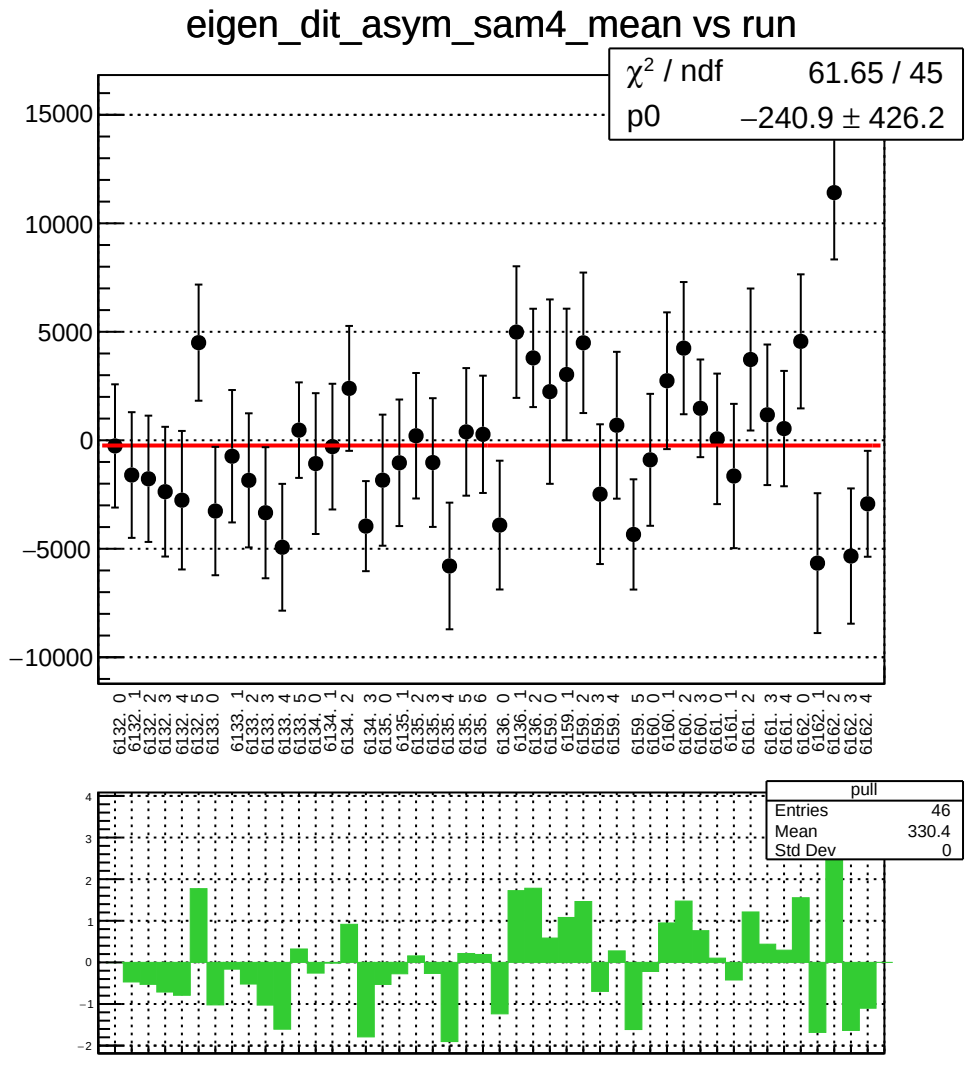
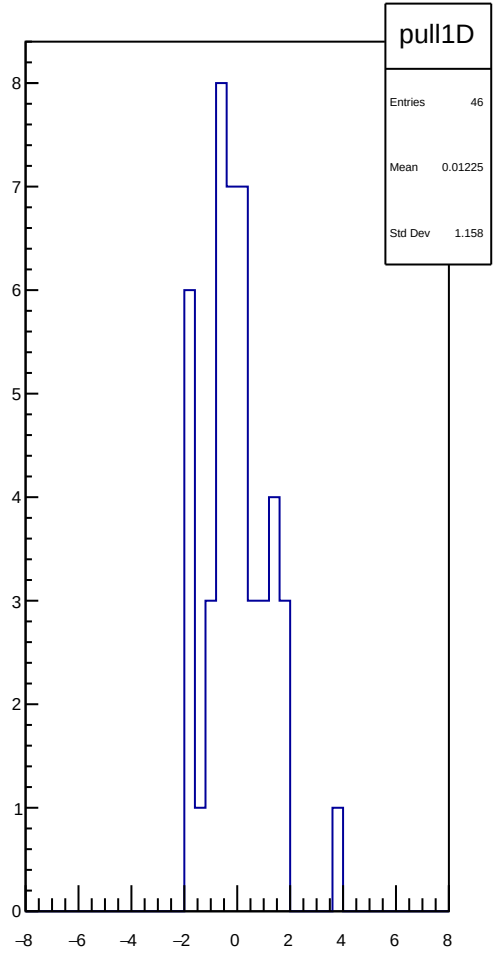
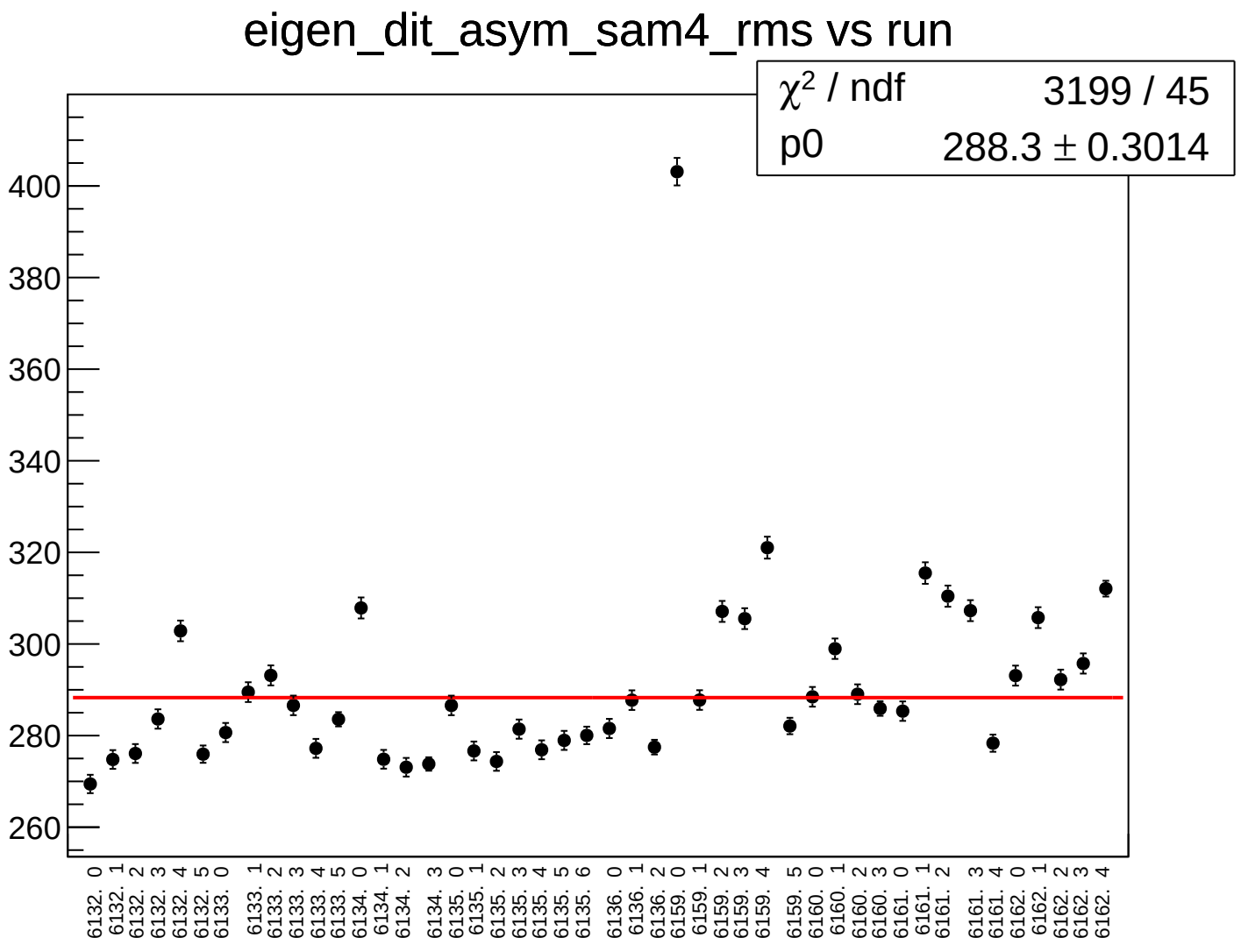
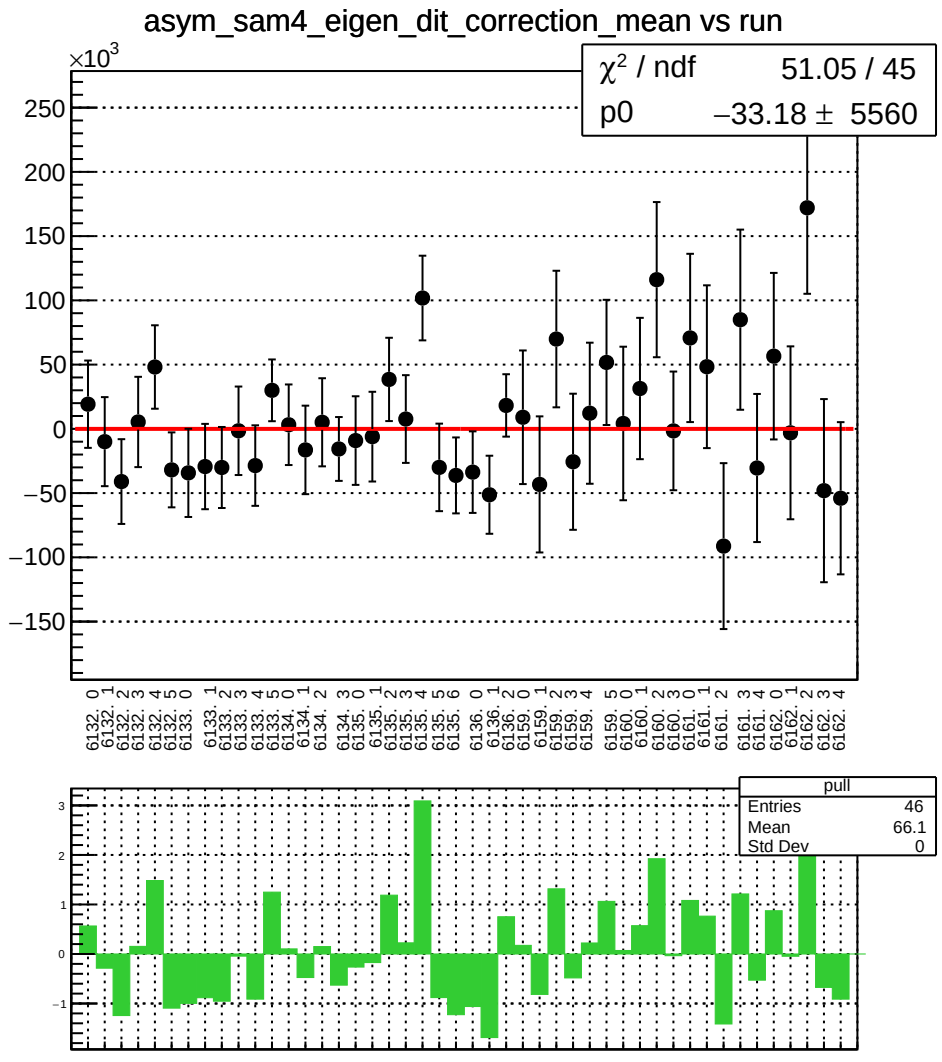
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 66.1
Std Dev 0
3
2
1
0
−1
pull1D
Entries 46
Mean 0.06718
Std Dev 1.051
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

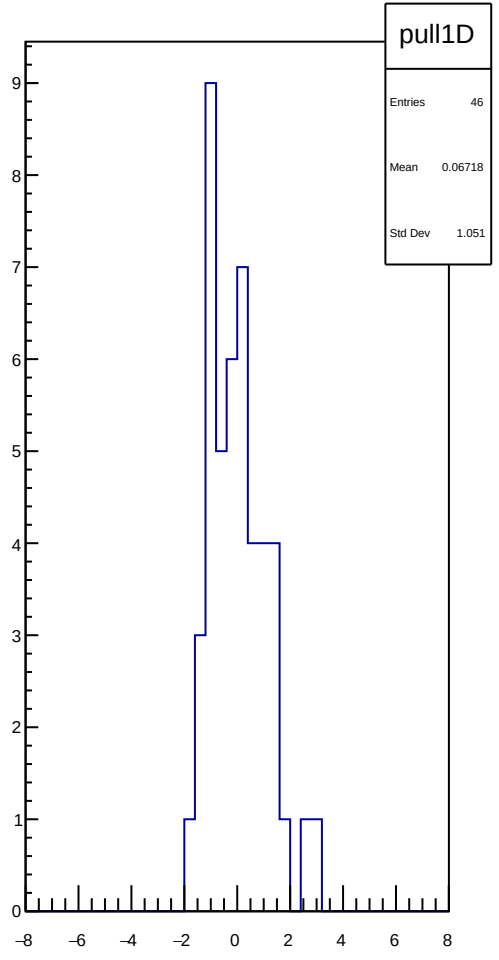

asym_sam4_dit_correction_rms vs run
χ² / ndf 7.338e+04 / 45
p0 3614 ± 3.932
8000
7000
6000
5000
4000
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

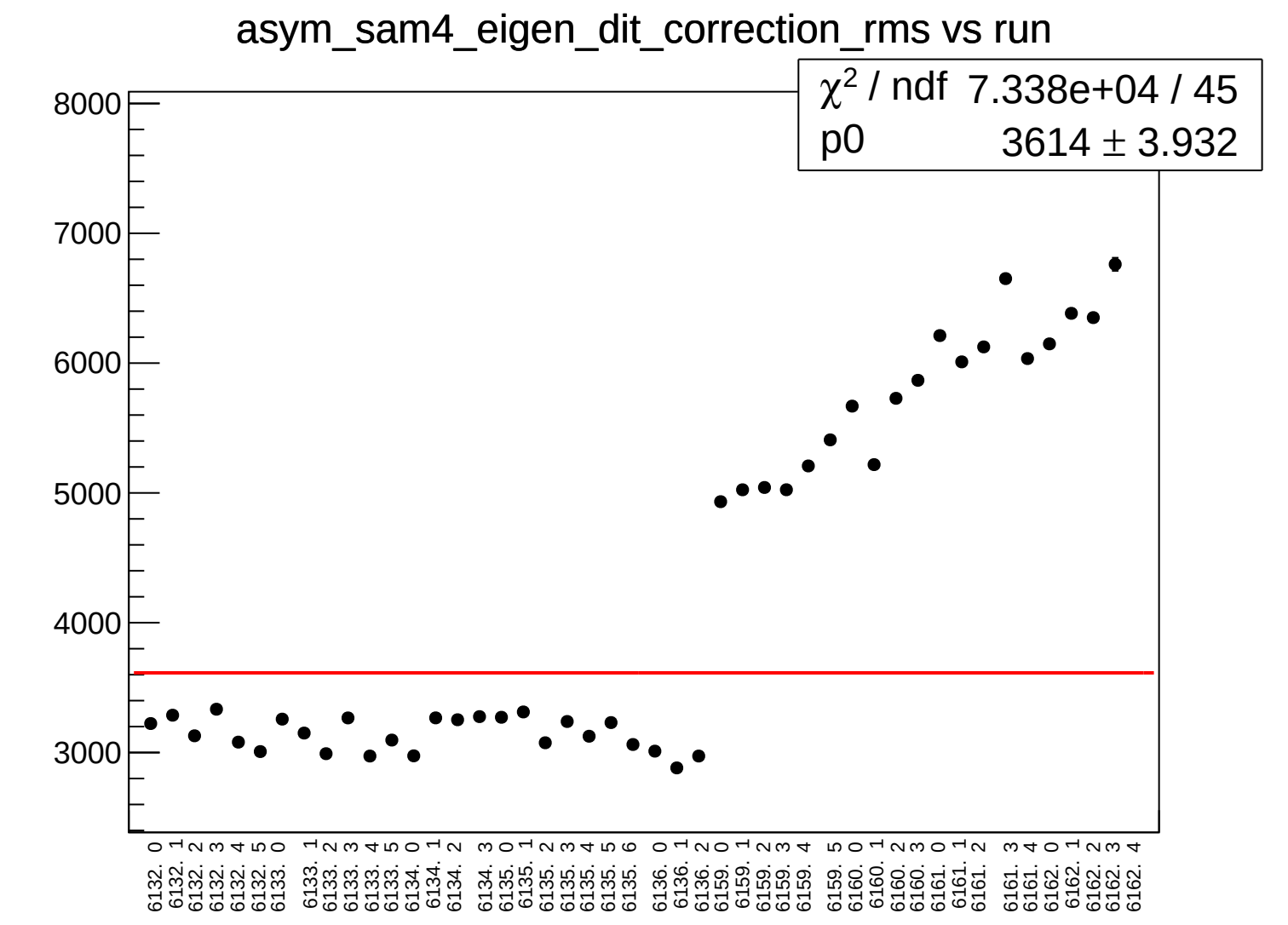

eigen_dit_asym_sam4_mean vs run
χ² / ndf 61.65 / 45
p0 −240.9 ± 426.2
15000
10000
5000
0
−5000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 330.4
Std Dev 0
4
3
2
1
0
−1
−2

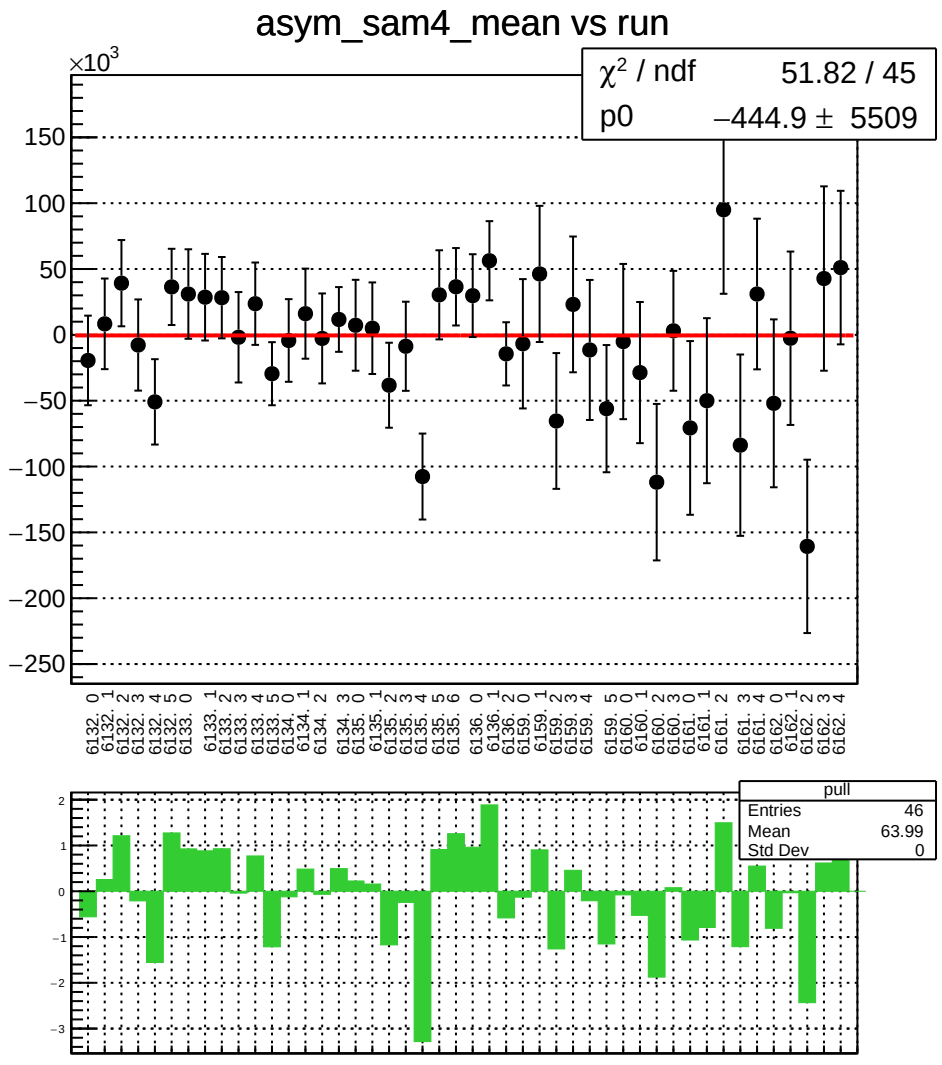

pull1D
Entries 46
Mean 0.01225
Std Dev 1.158
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

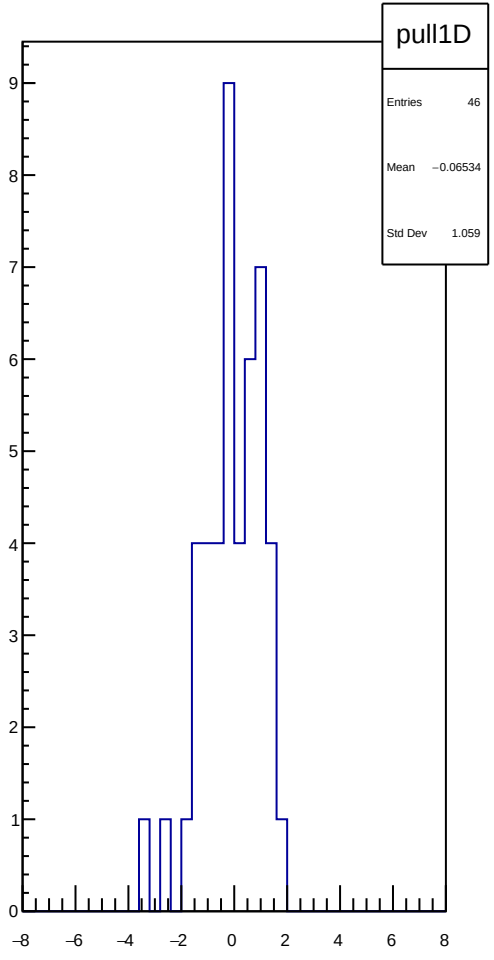

eigen_dit_asym_sam4_rms vs run
χ² / ndf 3199 / 45
p0 288.3 ± 0.3014
400
380
360
340
320
300
280
260
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

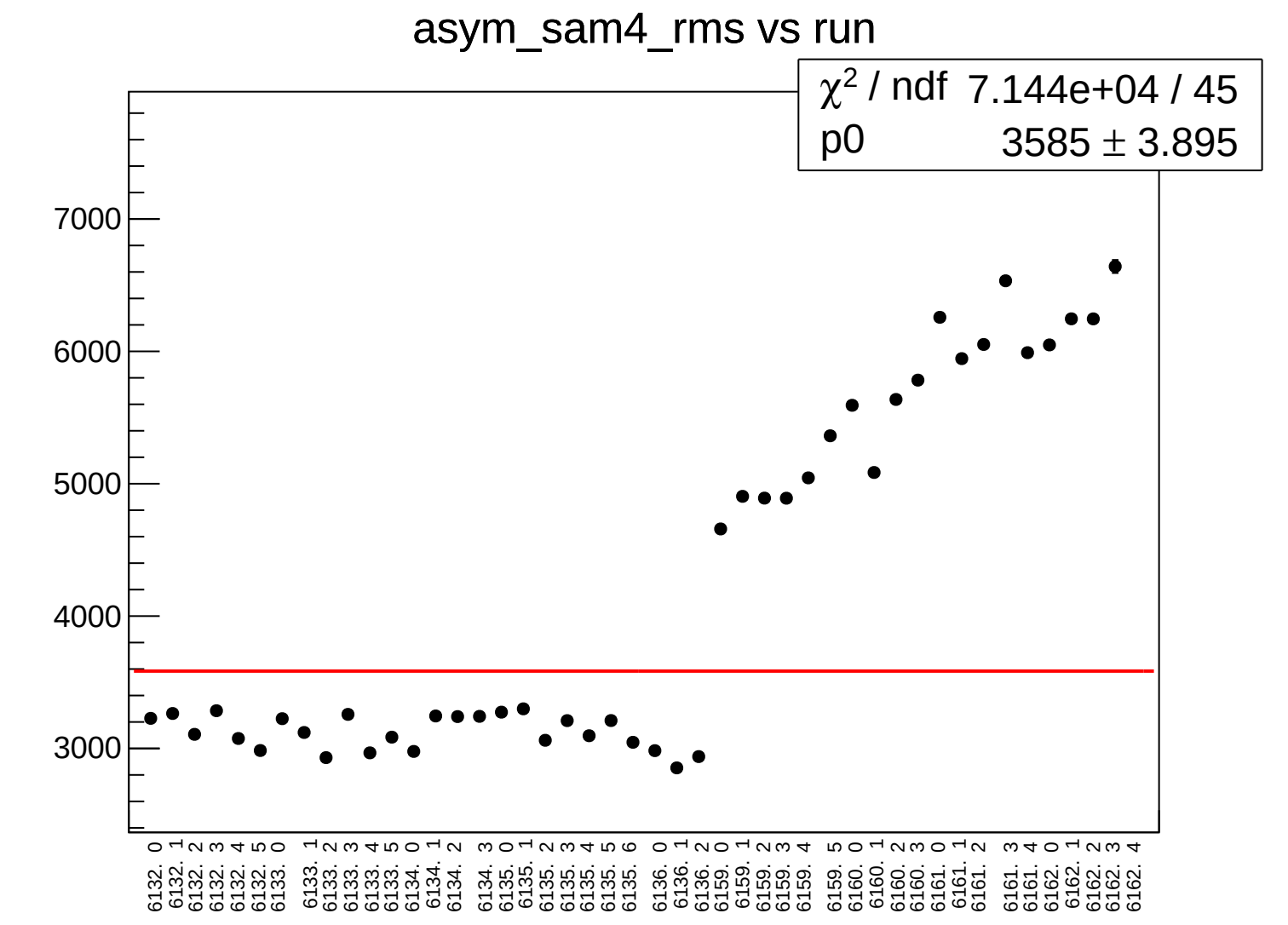

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 51.05 / 45
p0 −33.18 ± 5560
pull
Entries 46
Mean 66.1
Std Dev 0

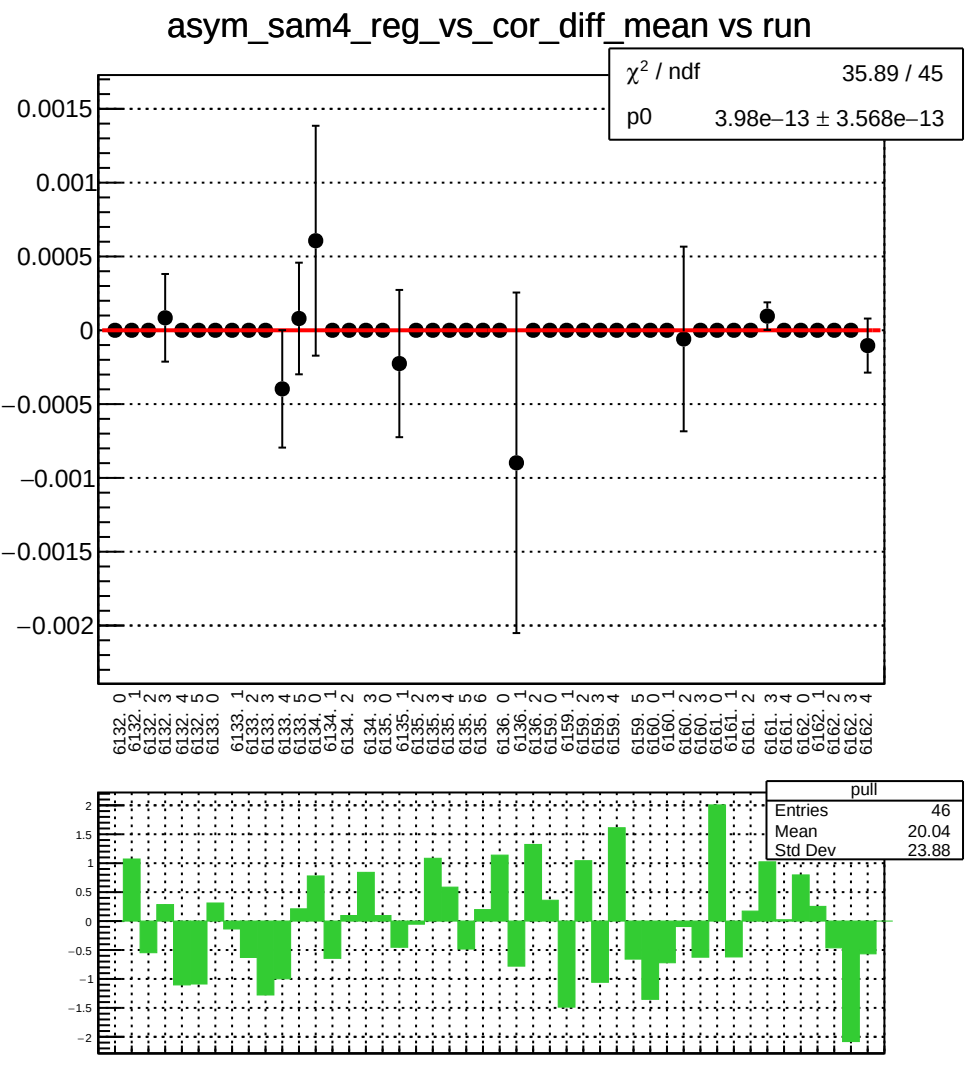

pull1D
Entries 46
Mean 0.06718
Std Dev 1.051

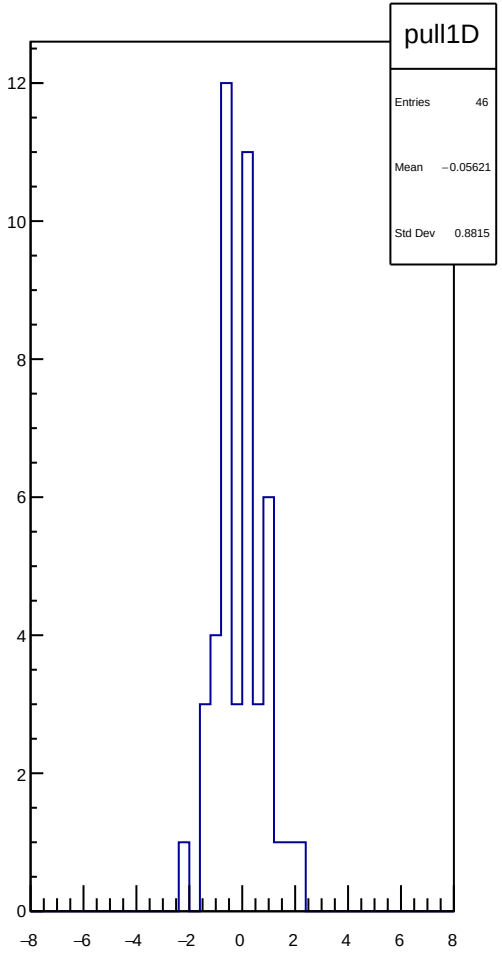

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 7.338e+04 / 45
p0 3614 ± 3.932
8000
7000
6000
5000
4000
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

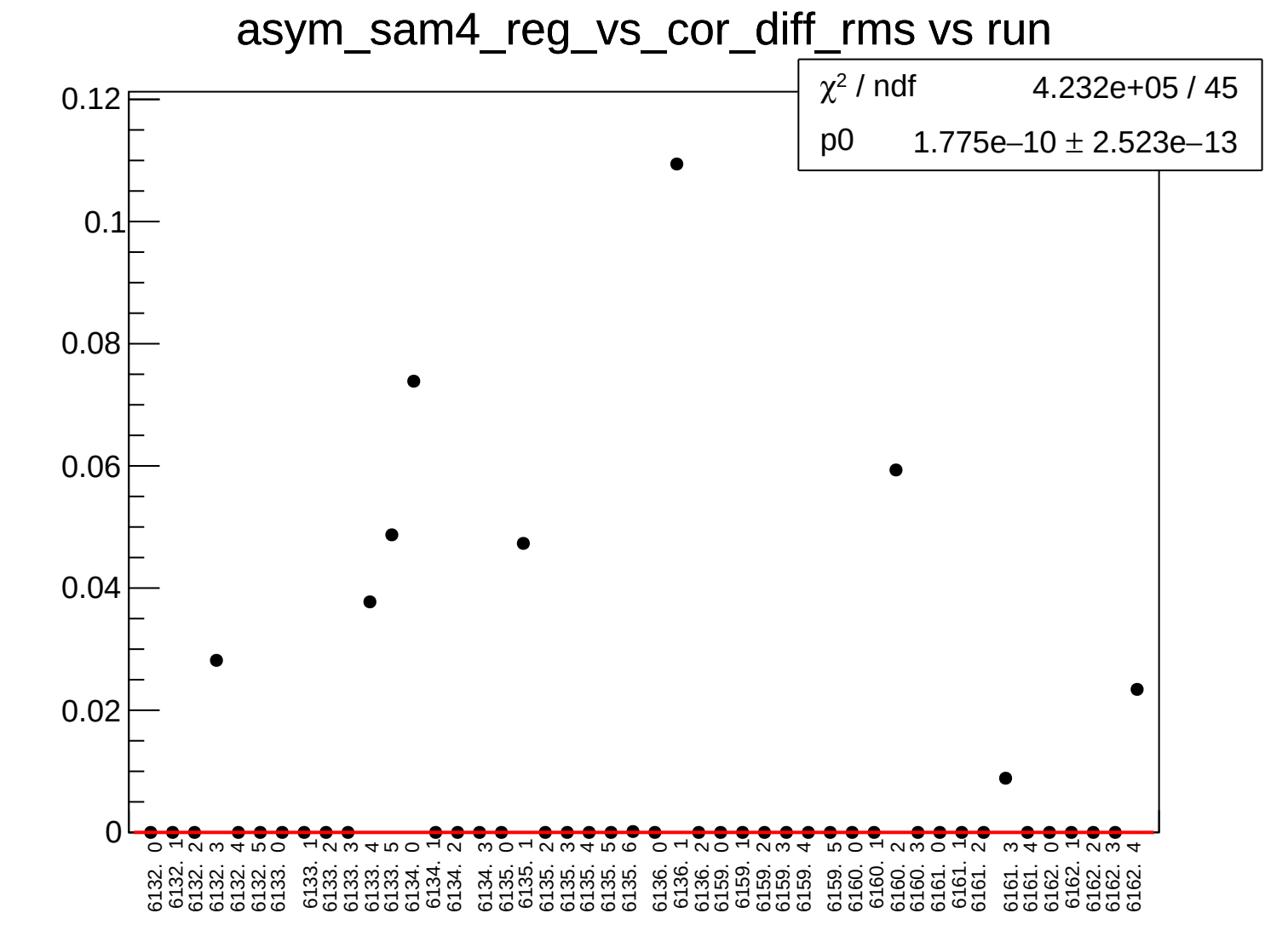

asym_sam4_mean vs run
×10^3
χ² / ndf 51.82 / 45
p0 −444.9 ± 5509
150
100
50
0
−50
−100
−150
−200
−250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 63.99
Std Dev 0
2
1
0
−1
−2
−3

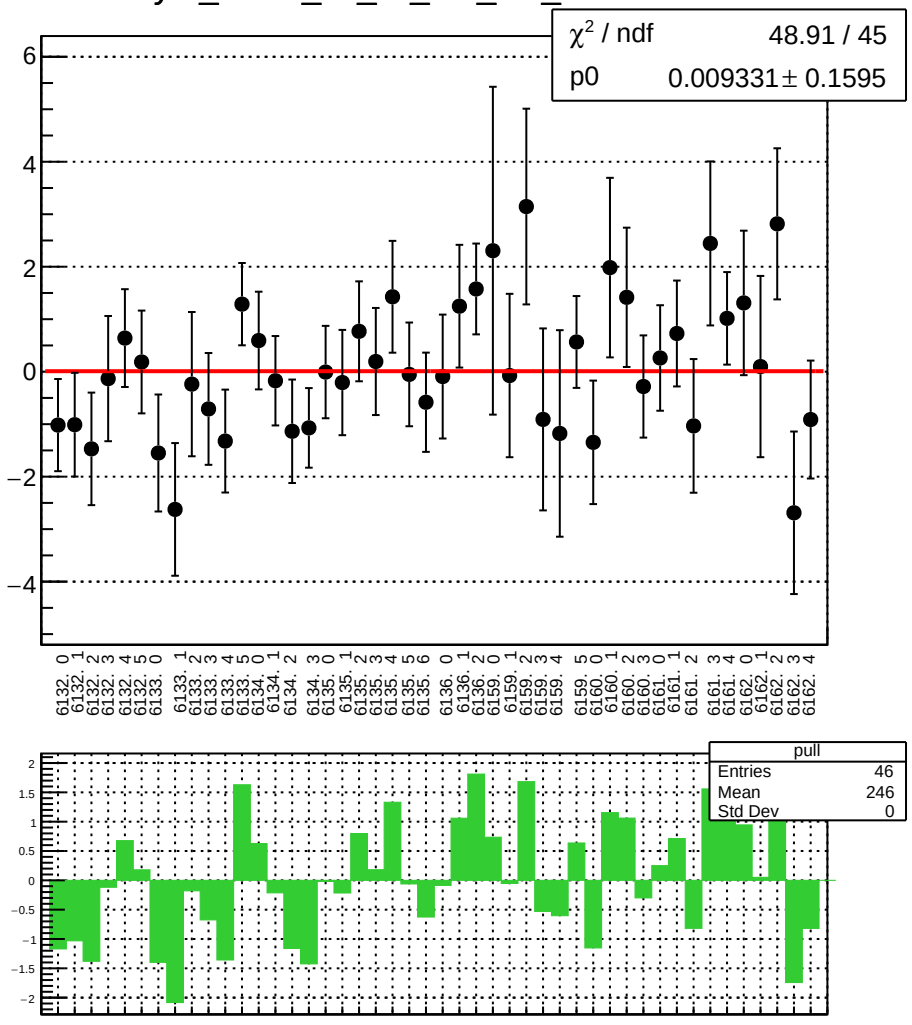

pull1D
Entries 46
Mean −0.06534
Std Dev 1.059
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

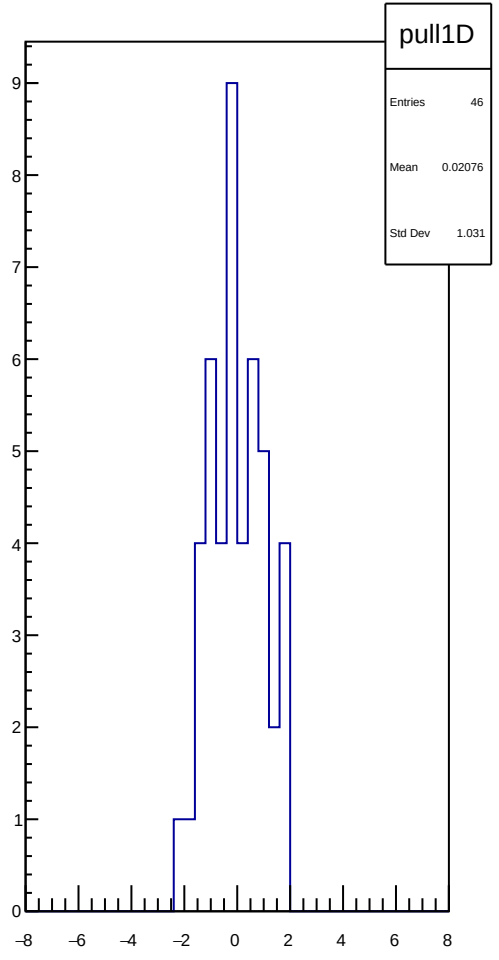

asym_sam4_rms vs run
χ² / ndf 7.144e+04 / 45
p0 3585 ± 3.895
7000
6000
5000
4000
3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

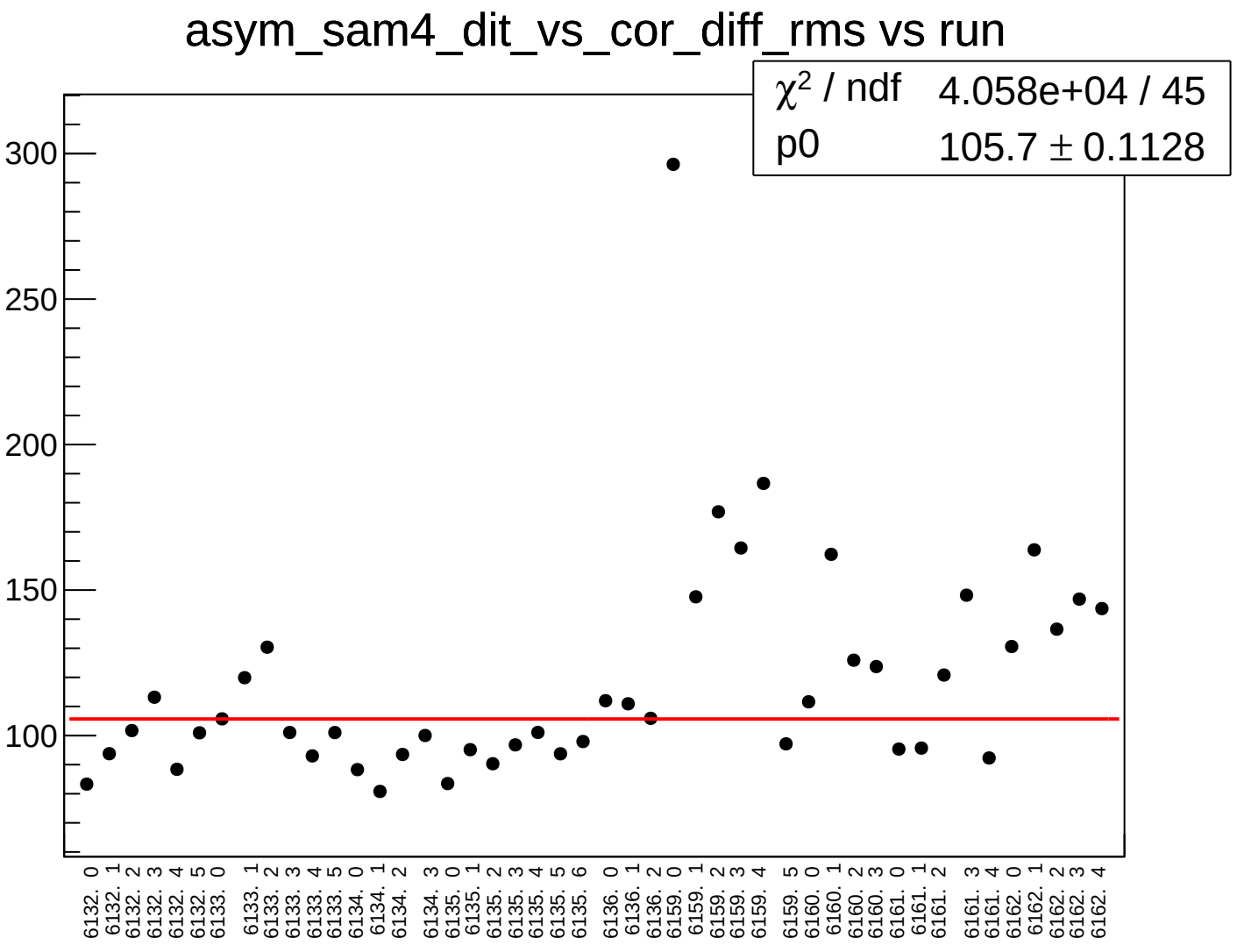

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 35.89 / 45
p0 3.98e−13 ± 3.568e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 20.04
Std Dev 23.88
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

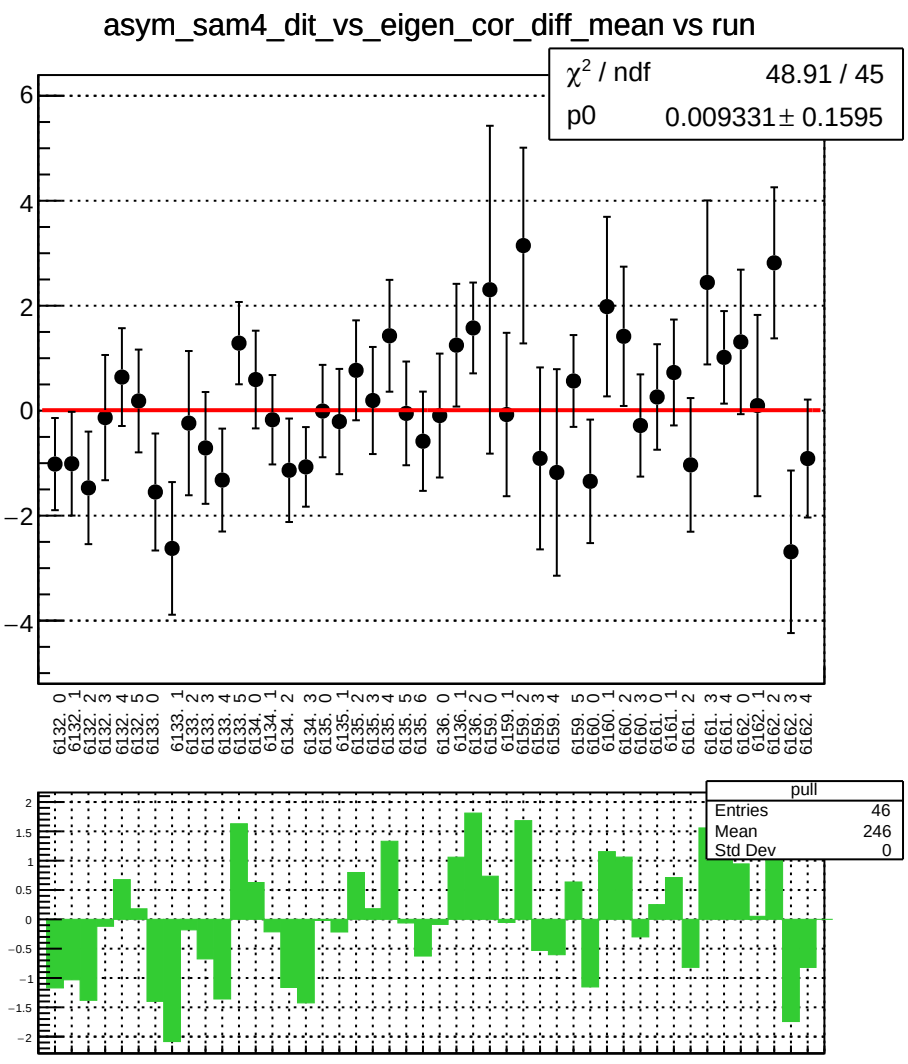

pull1D
Entries 46
Mean −0.05621
Std Dev 0.8815
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

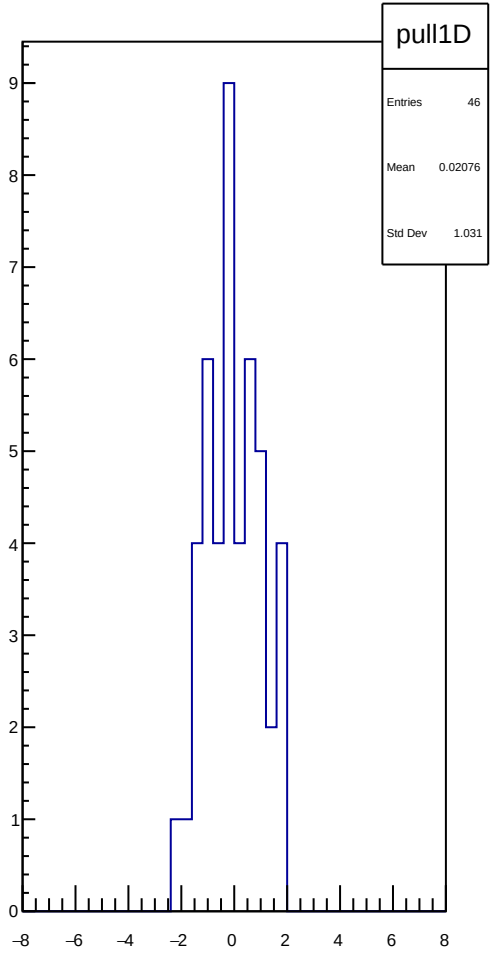

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 4.232e+05 / 45
p0 1.775e−10 ± 2.523e−13
0.12
0.1
0.08
0.06
0.04
0.02
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

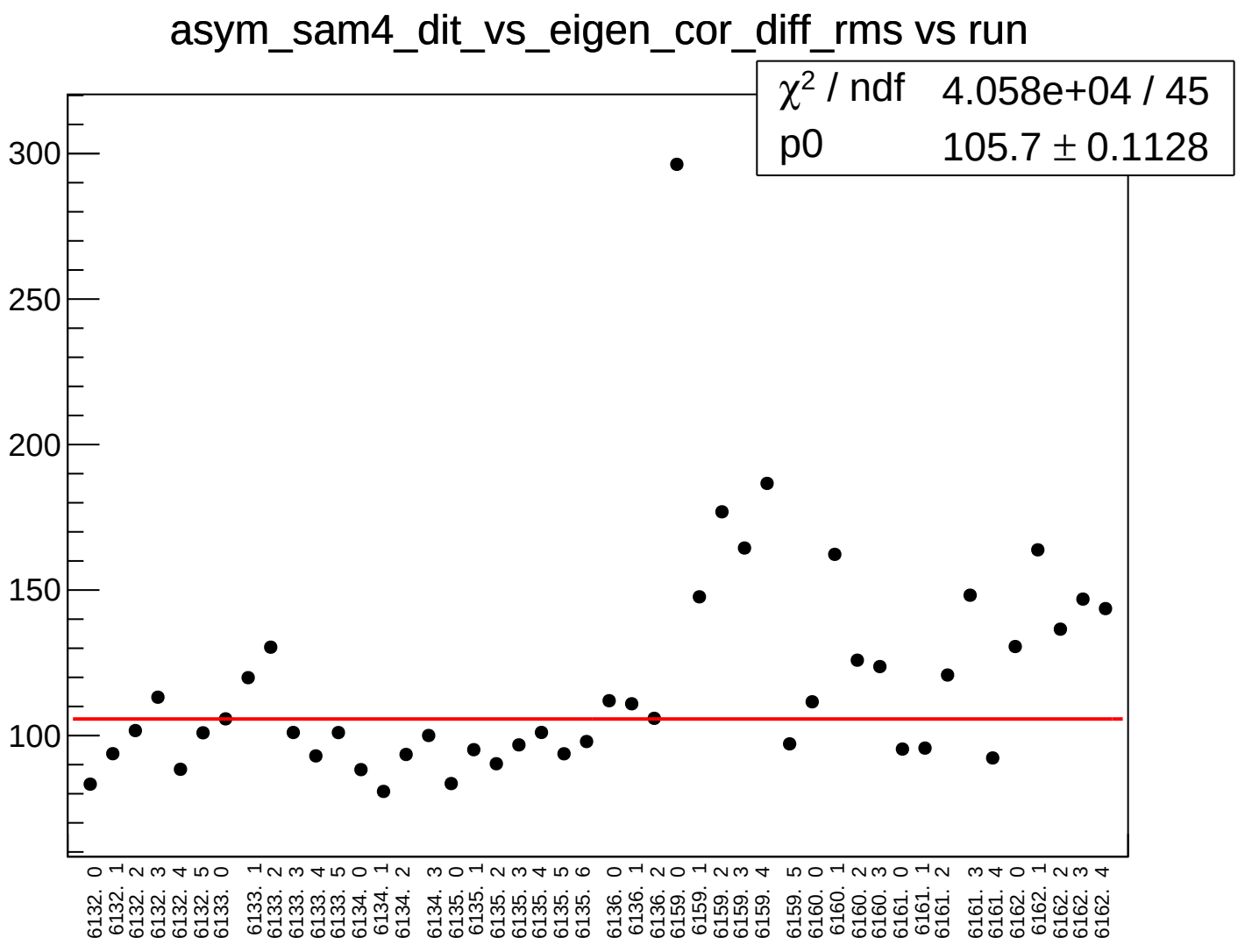

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 48.91 / 45
p0 0.009331 ± 0.1595
pull
Entries 46
Mean 246
Std Dev 0


pull1D
Entries 46
Mean 0.02076
Std Dev 1.031


asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 4.058e+04 / 45
p0 105.7 ± 0.1128
300
250
200
150
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.91 / 45
p0 0.009331 ± 0.1595
pull
Entries 46
Mean 246
Std Dev 0


pull1D
Entries 46
Mean 0.02076
Std Dev 1.031


asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.058e+04 / 45
p0 105.7 ± 0.1128
300
250
200
150
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
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6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
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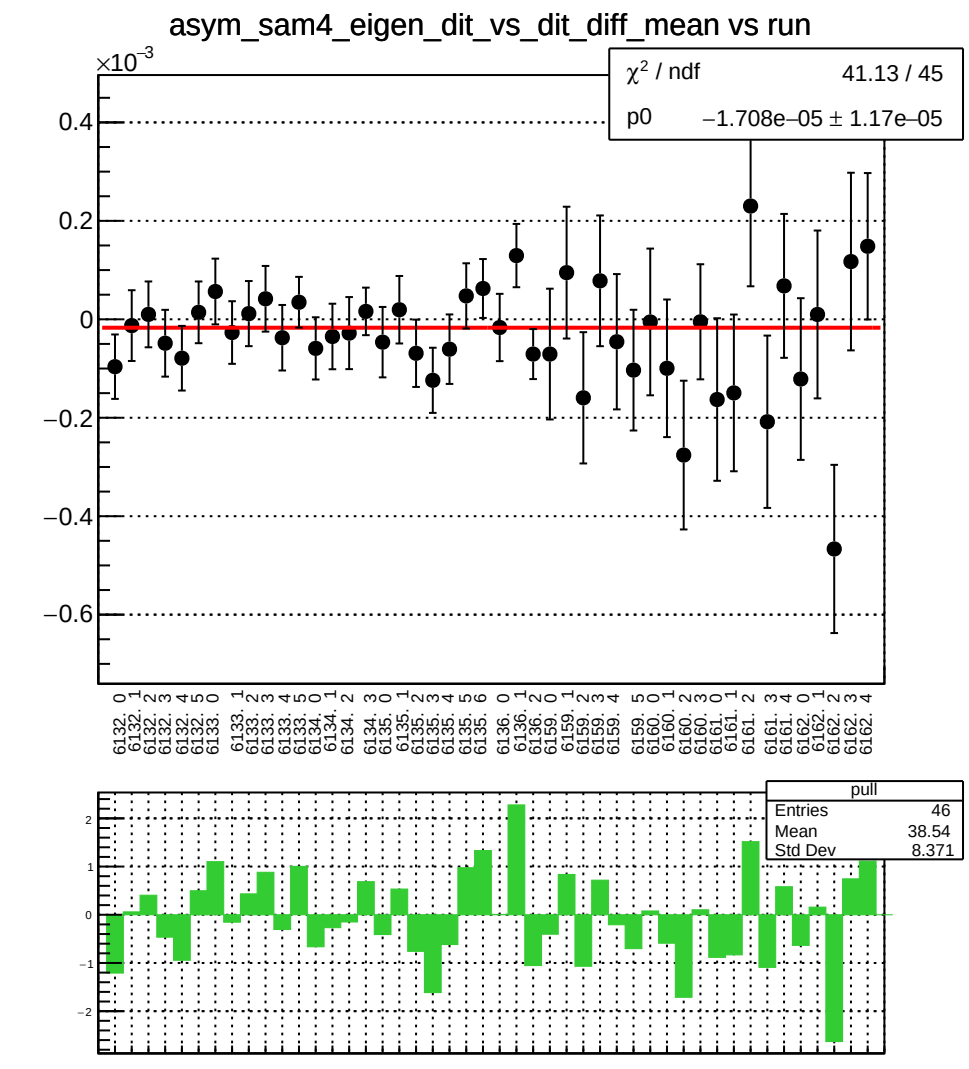
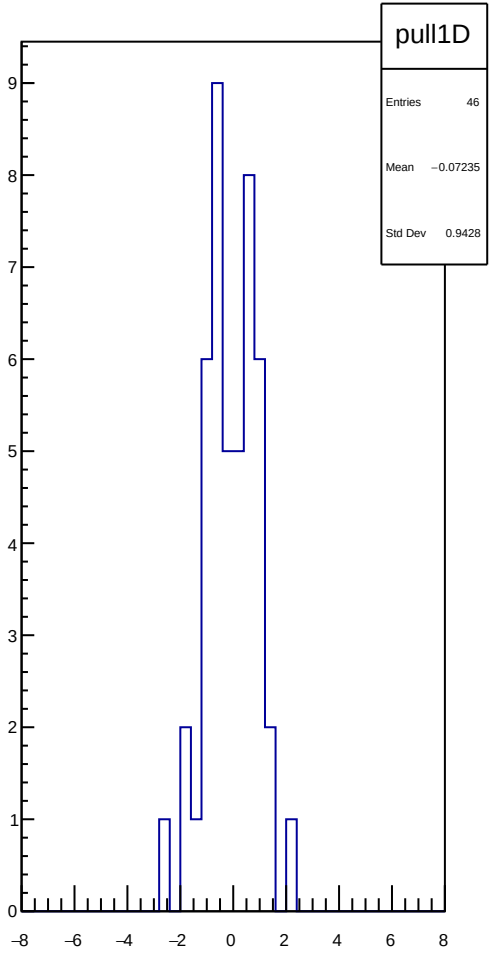
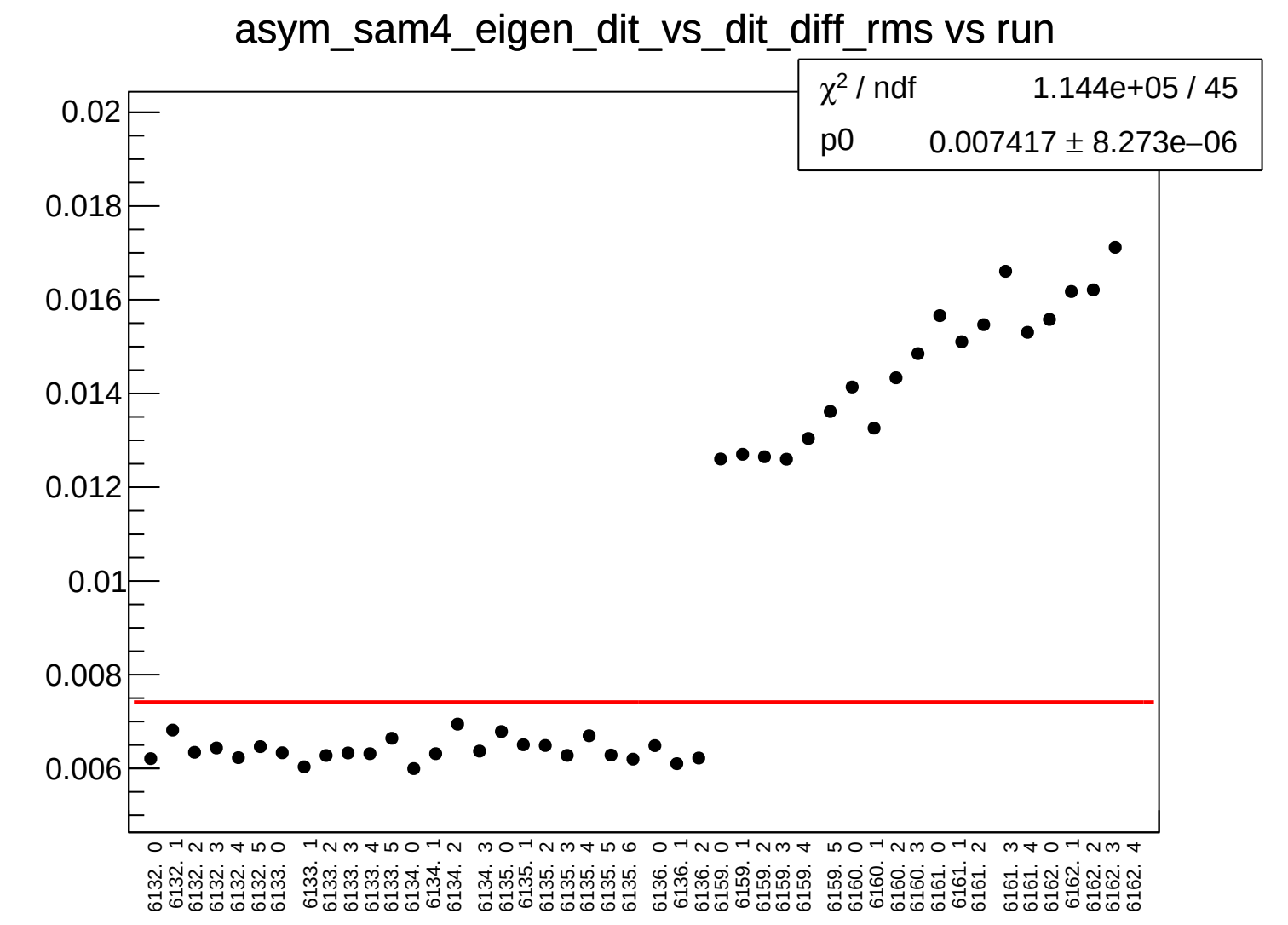
6162. 4


asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 41.13 / 45
p0 −1.708e−05 ± 1.17e−05
0.4
0.2
0
−0.2
−0.4
−0.6
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 38.54
Std Dev 8.371
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.07235
Std Dev 0.9428
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.144e+05 / 45
p0 0.007417 ± 8.273e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
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6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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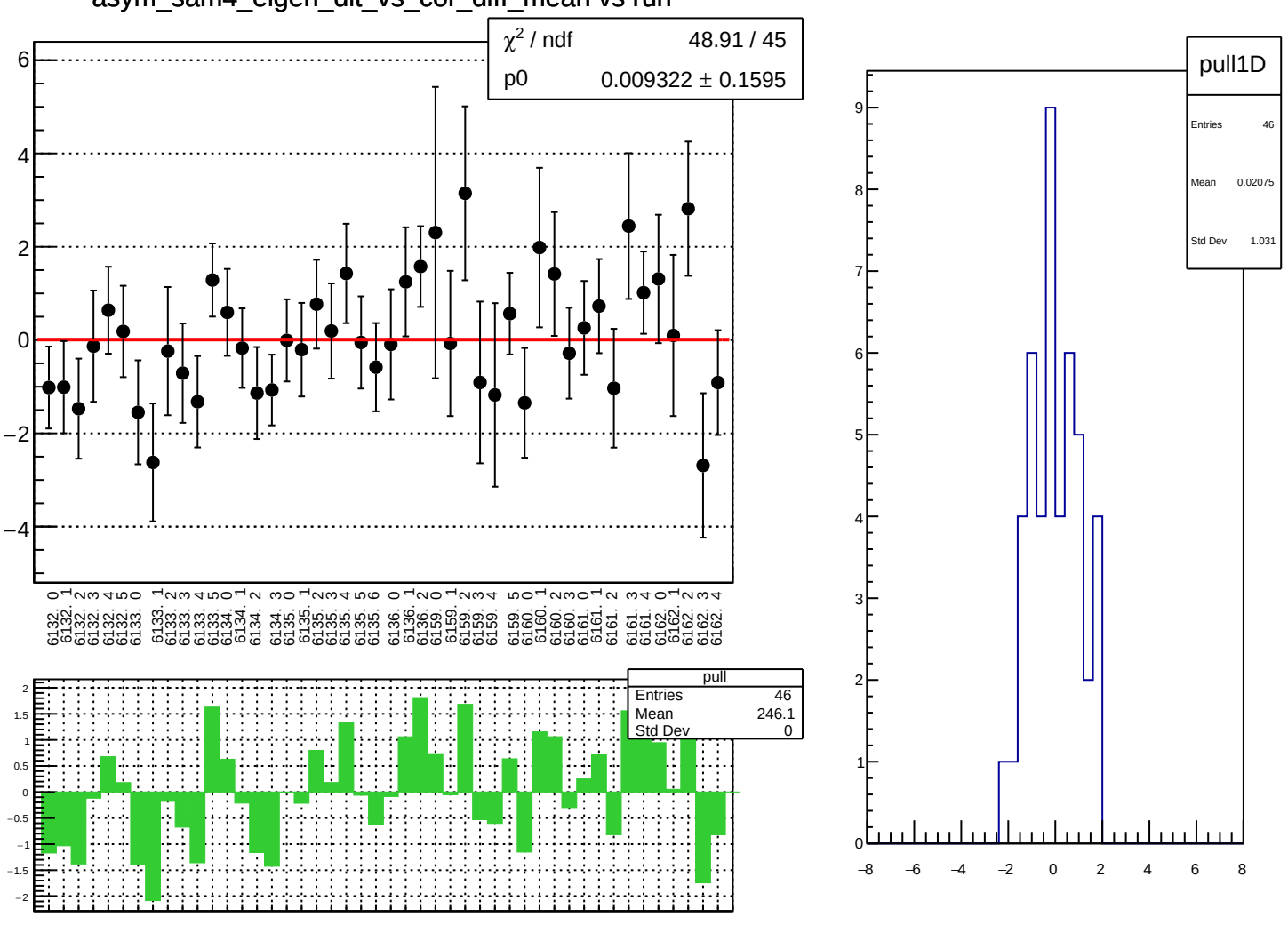
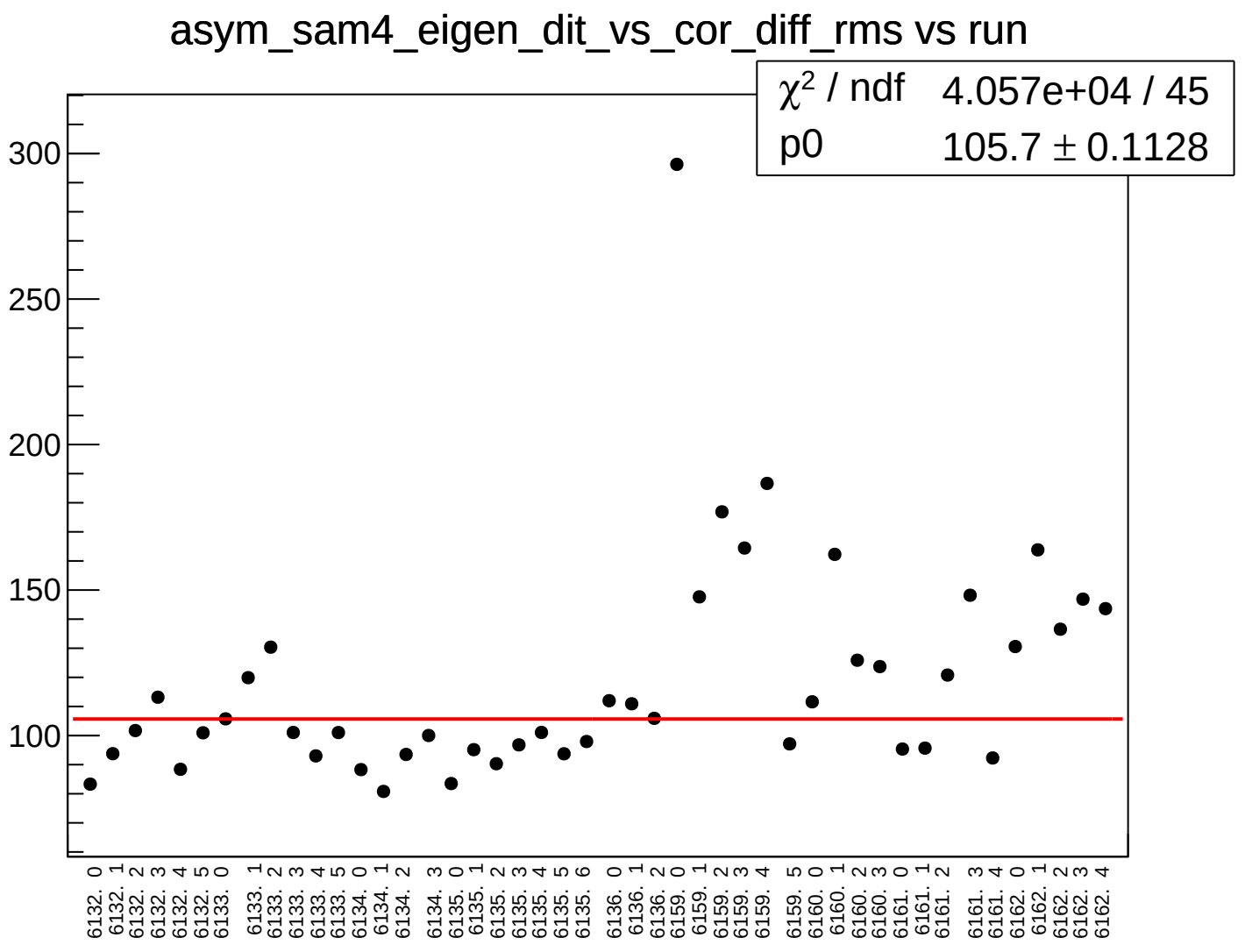
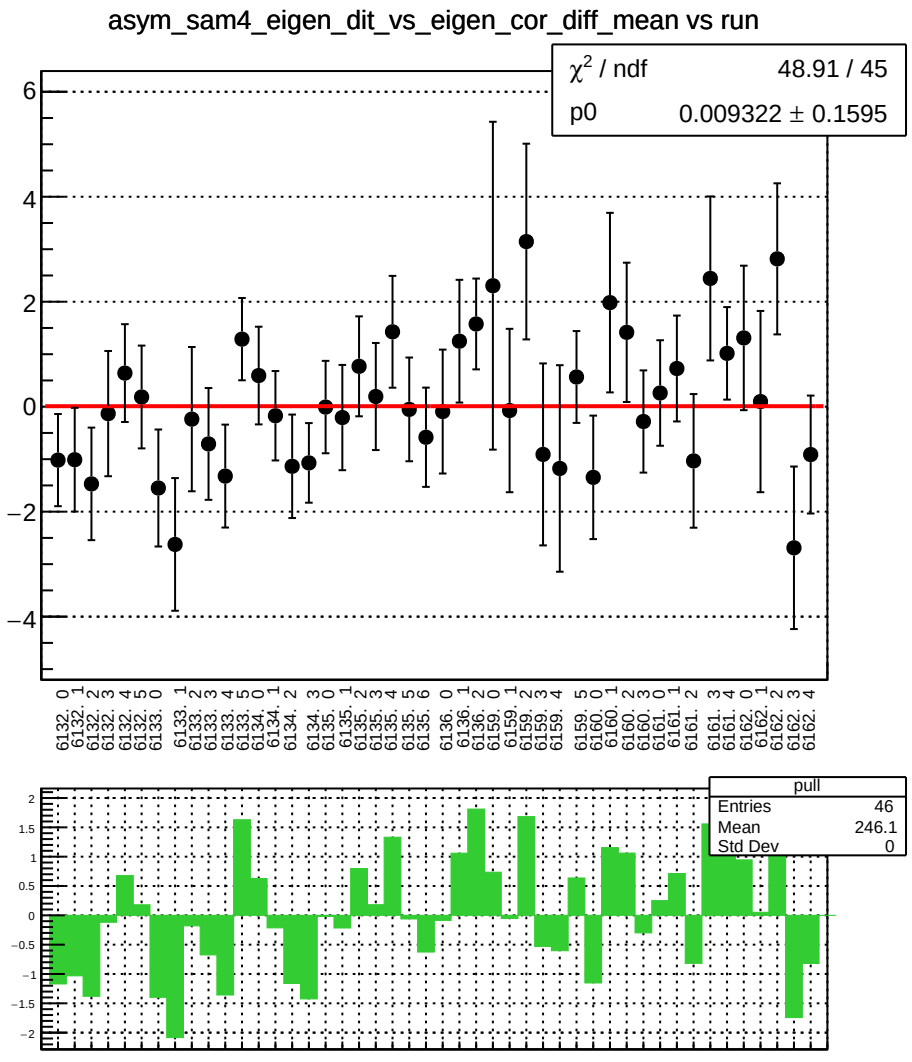
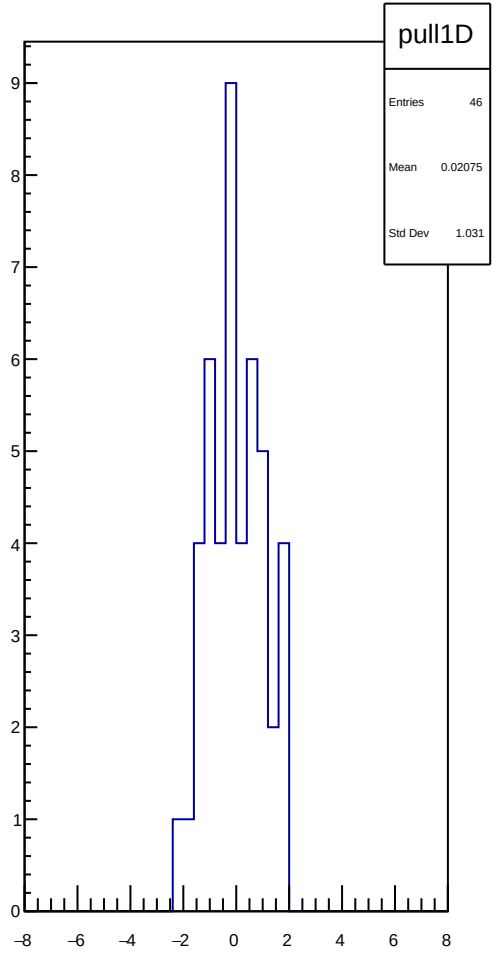
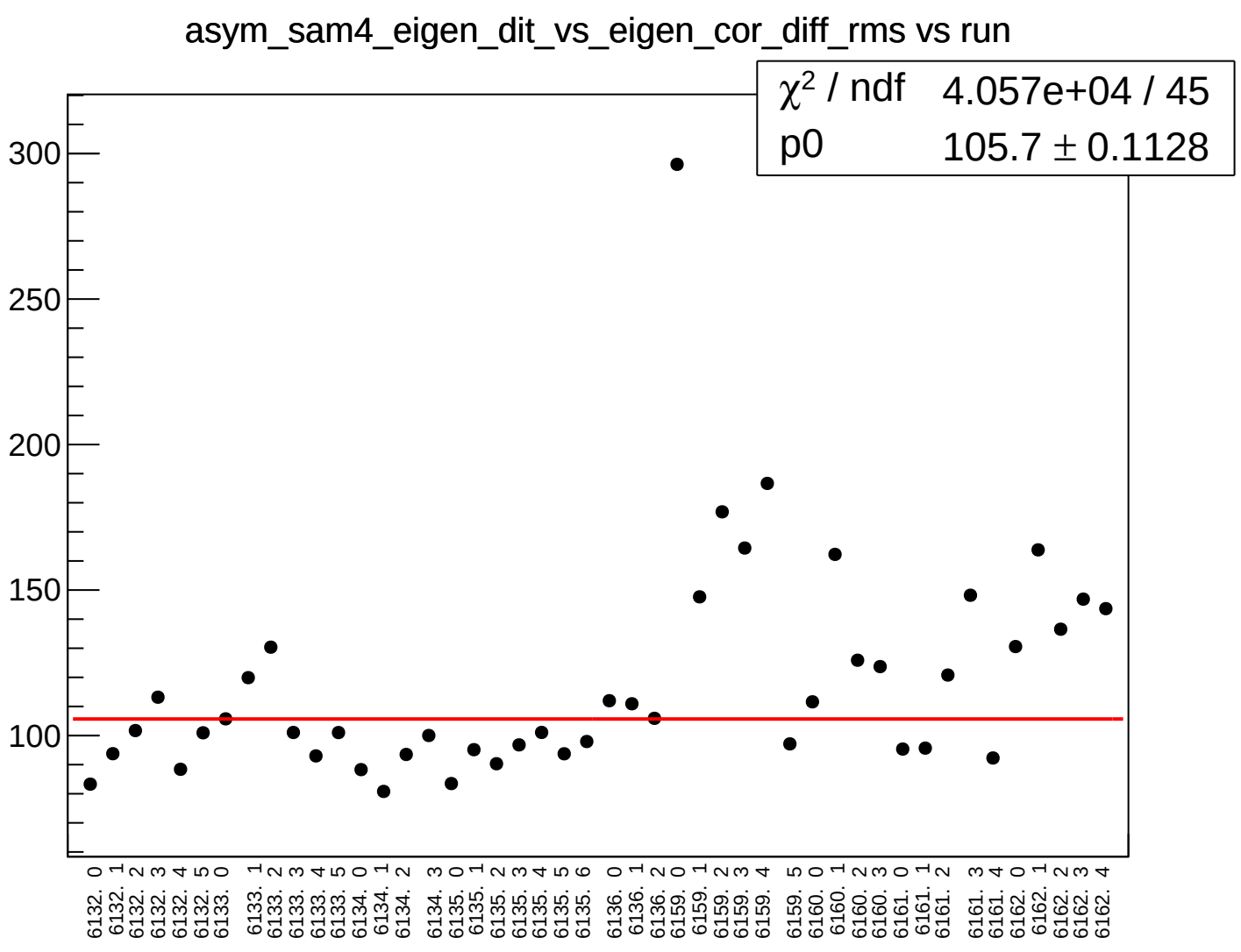
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 48.91 / 45
p0 0.009322 ± 0.1595
pull
Entries 46
Mean 246.1
Std Dev 0
pull1D
Entries 46
Mean 0.02075
Std Dev 1.031


asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.057e+04 / 45
p0 105.7 ± 0.1128
300
250
200
150
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.91 / 45
p0 0.009322 ± 0.1595
pull
Entries 46
Mean 246.1
Std Dev 0


pull1D
Entries 46
Mean 0.02075
Std Dev 1.031


asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.057e+04 / 45
p0 105.7 ± 0.1128
300
250
200
150
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
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6161. 4
6162. 0
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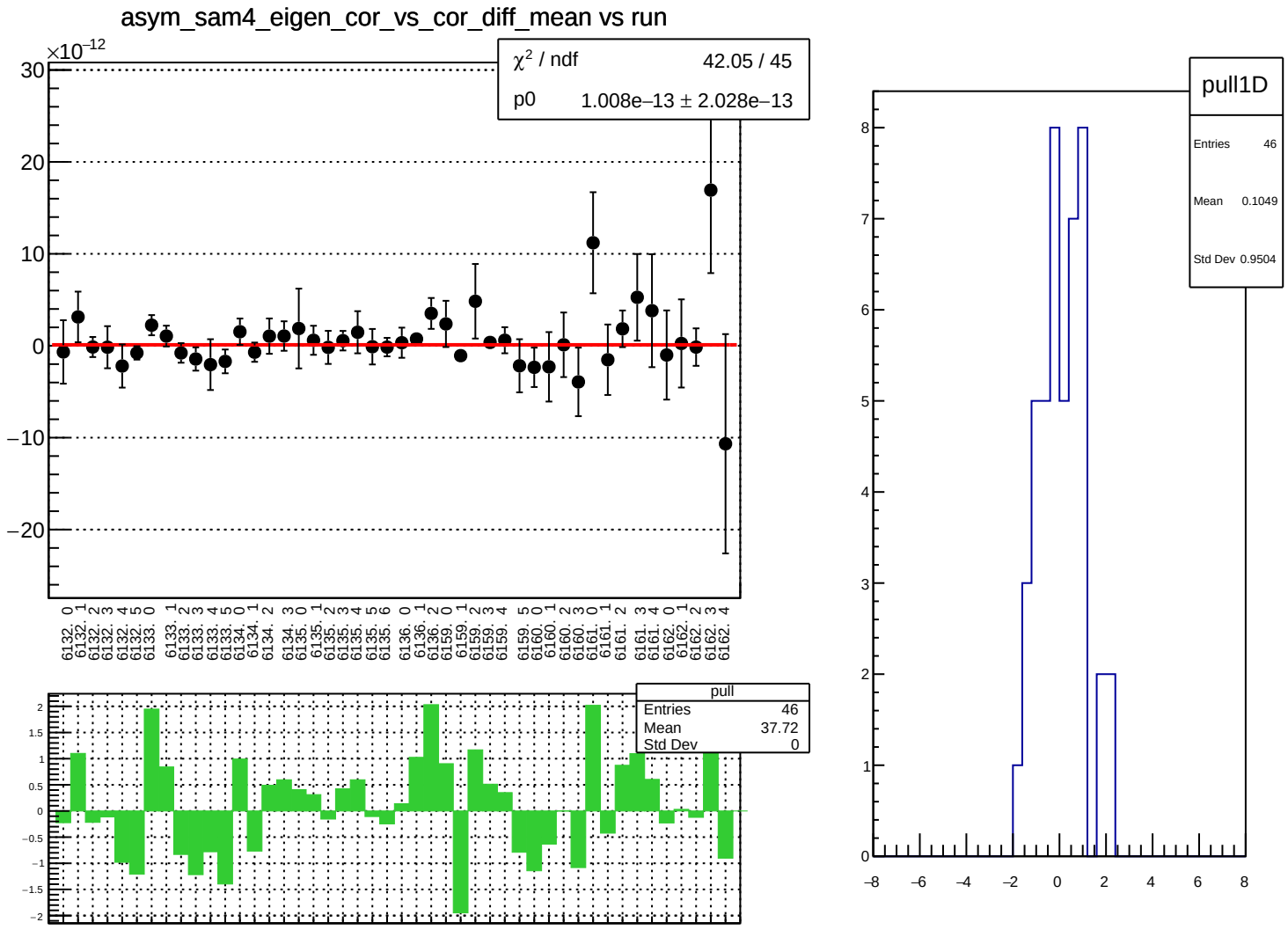
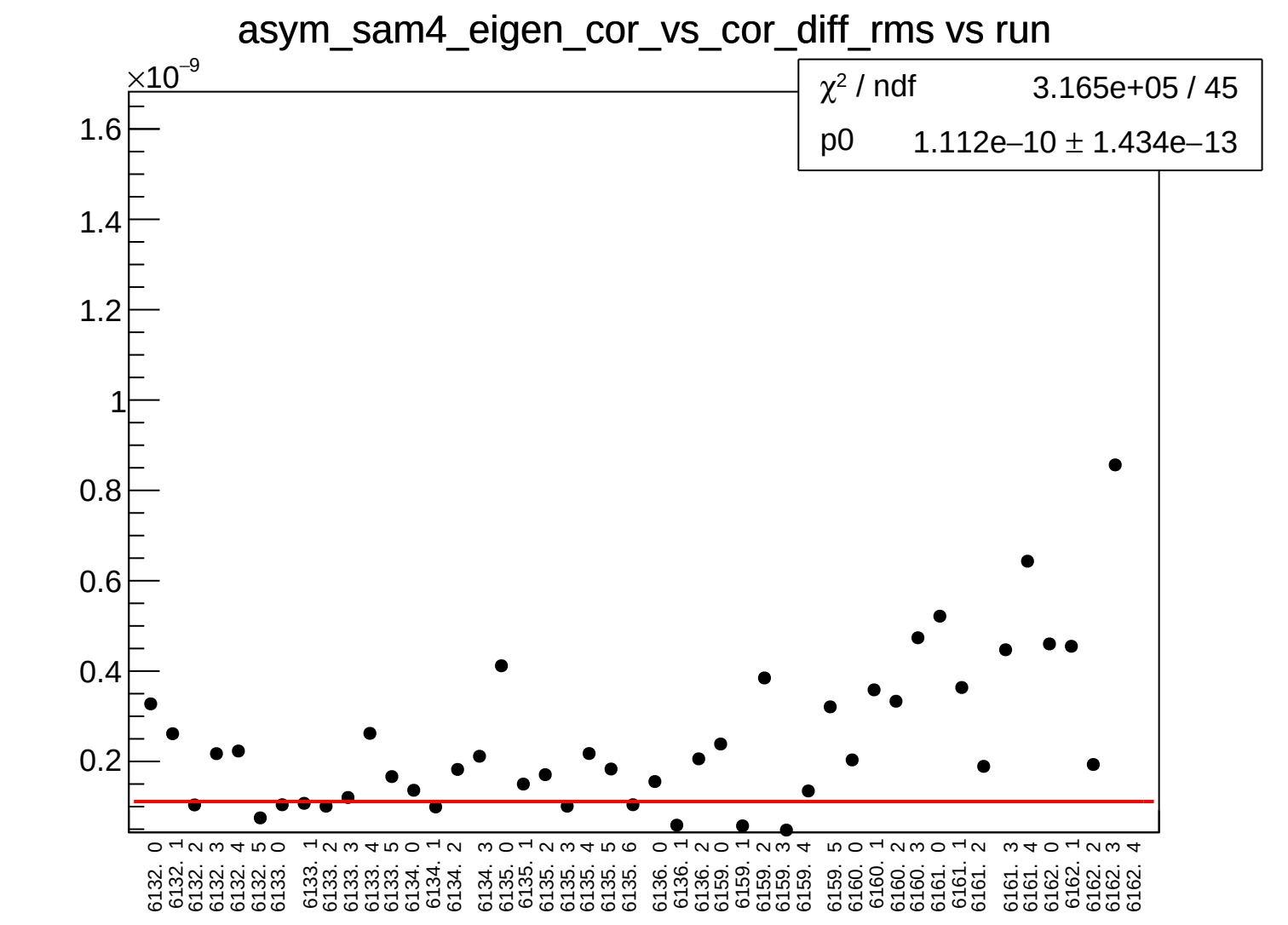
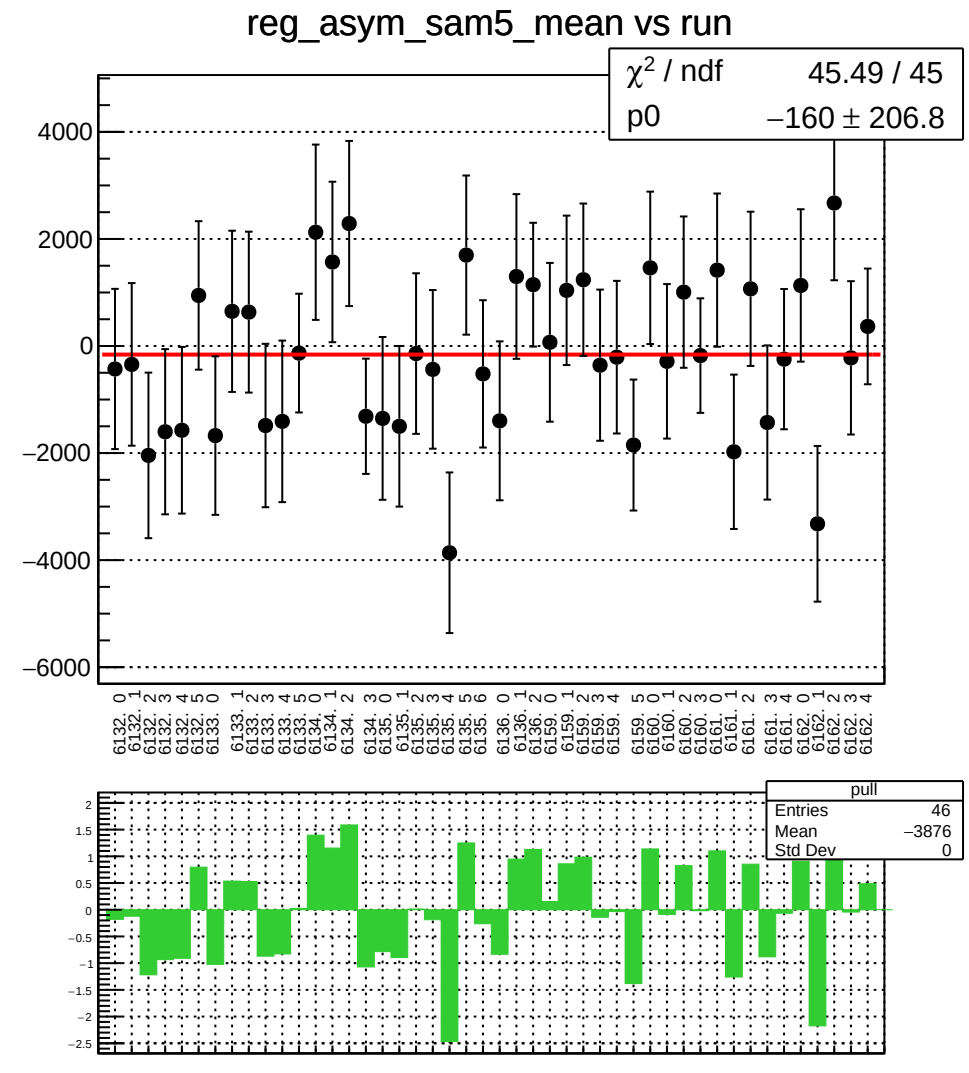
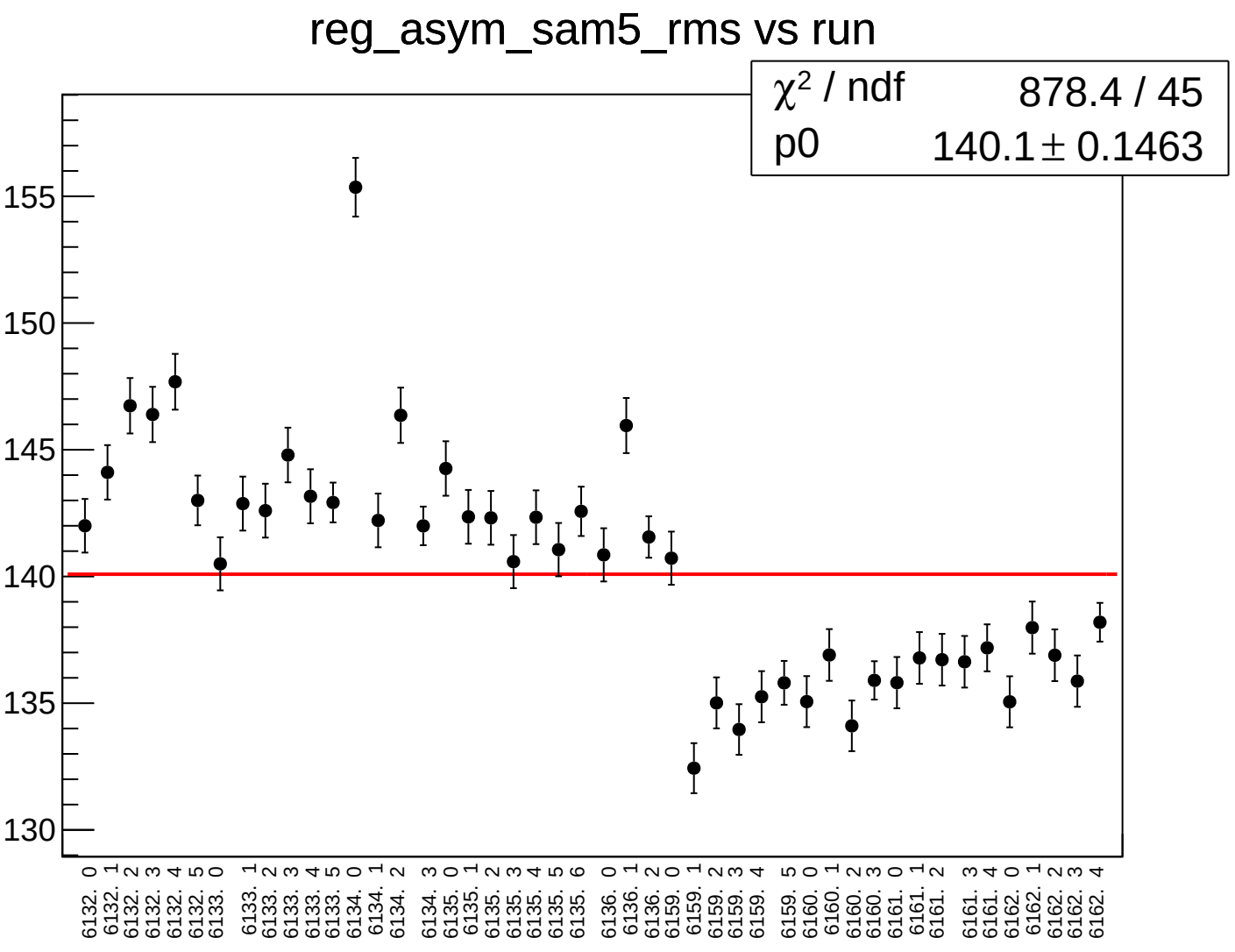
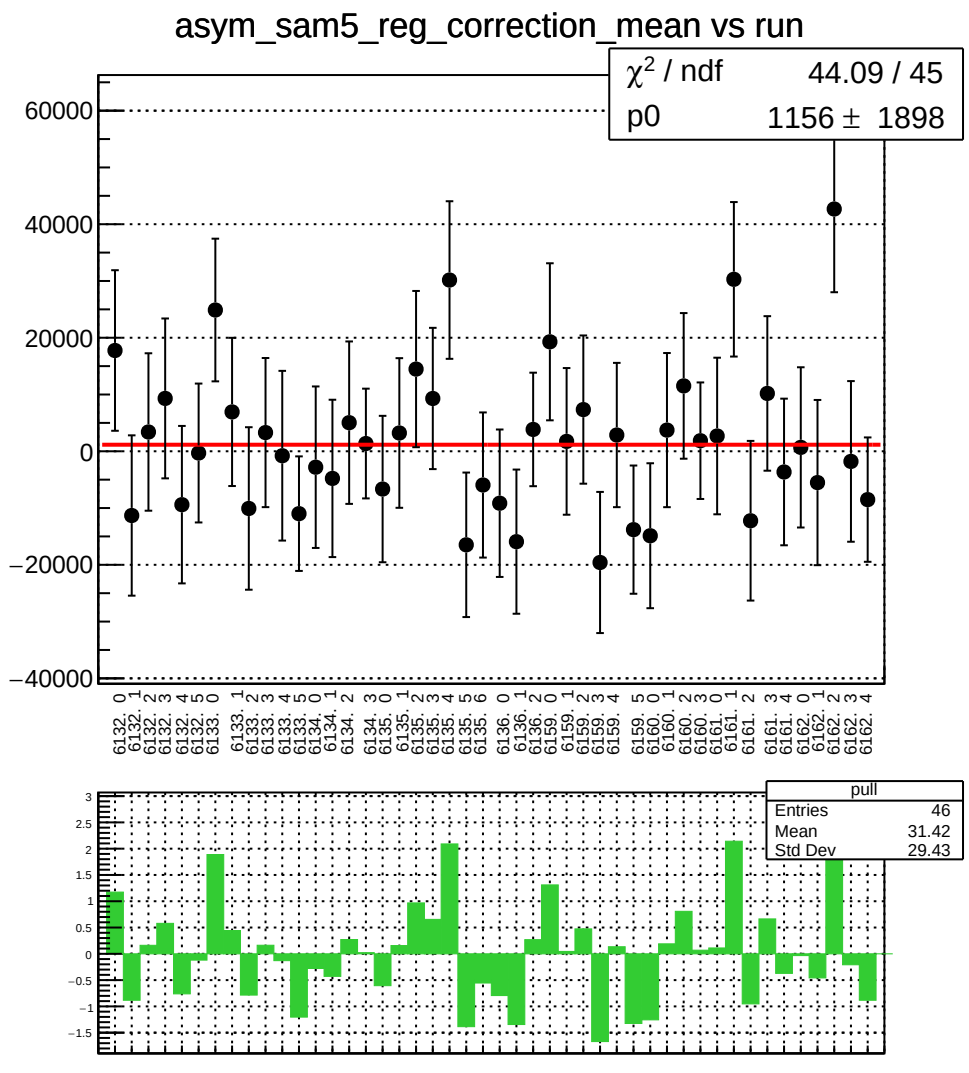
6162. 4

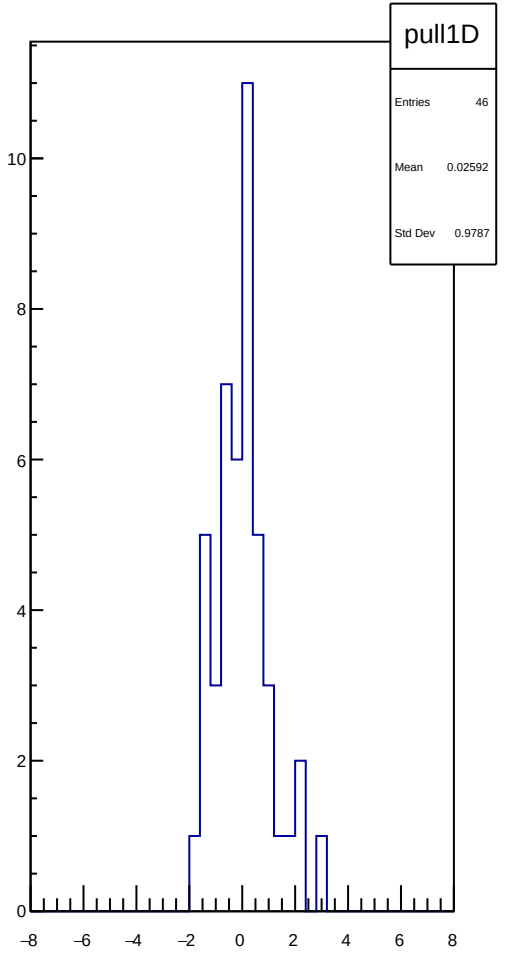

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 42.05 / 45
p0 1.008e−13 ± 2.028e−13
30
20
10
0
−10
−20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 37.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.1049
Std Dev 0.9504
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

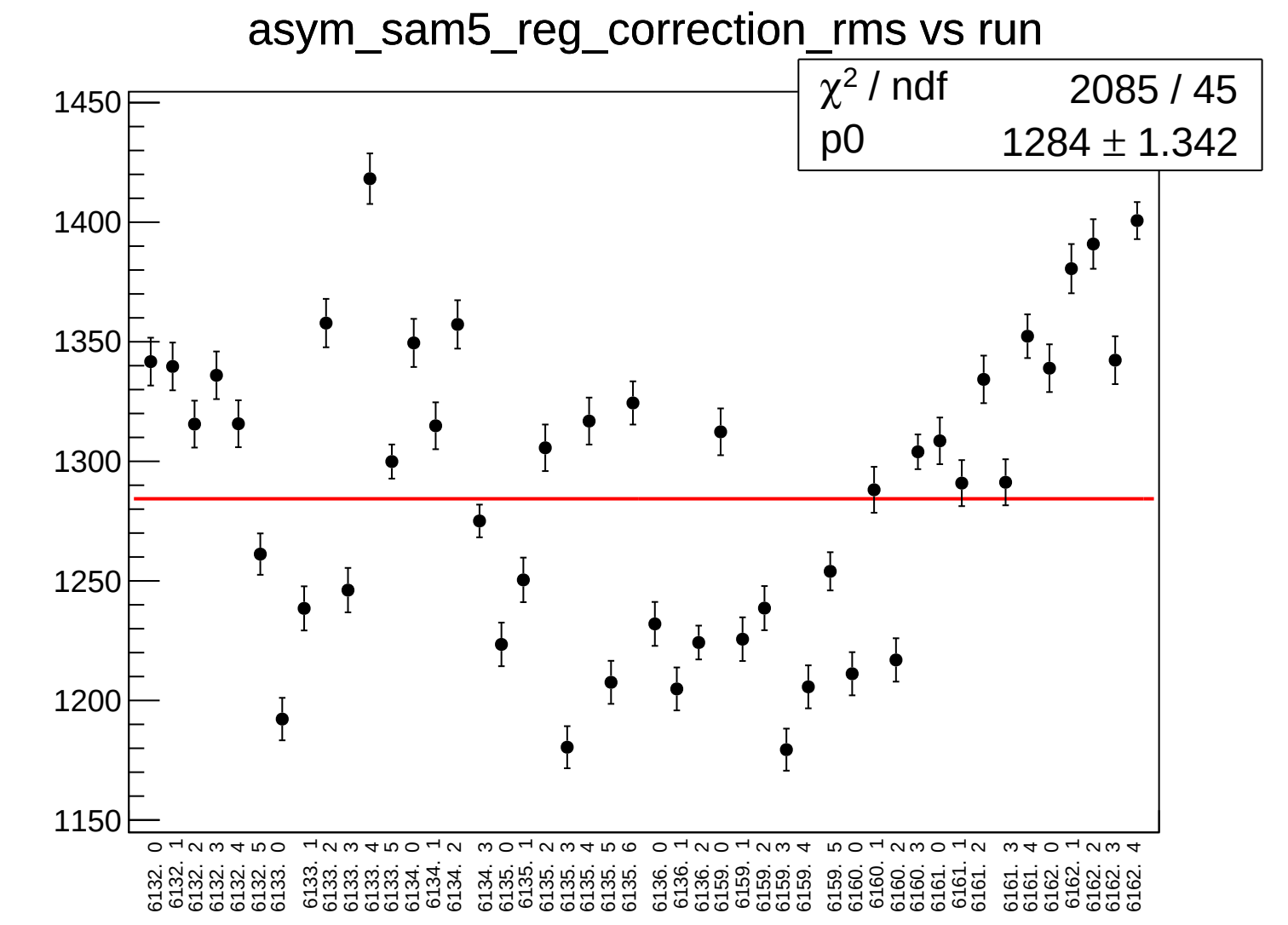

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.165e+05 / 45
p0 1.112e−10 ± 1.434e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_sam5_mean vs run
χ² / ndf 45.49 / 45
p0 −160 ± 206.8
4000
2000
0
−2000
−4000
−6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −3876
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.0005464
Std Dev 0.9944
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam5_rms vs run
χ² / ndf 878.4 / 45
p0 140.1 ± 0.1463
155
150
145
140
135
130
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam5_reg_correction_mean vs run
χ² / ndf 44.09 / 45
p0 1156 ± 1898
pull
Entries 46
Mean 31.42
Std Dev 29.43


pull1D
Entries 46
Mean 0.02592
Std Dev 0.9787


asym_sam5_reg_correction_rms vs run
χ² / ndf 2085 / 45
p0 1284 ± 1.342
1450
1400
1350
1300
1250
1200
1150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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6159. 2
6159. 3
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6160. 2
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6162. 0
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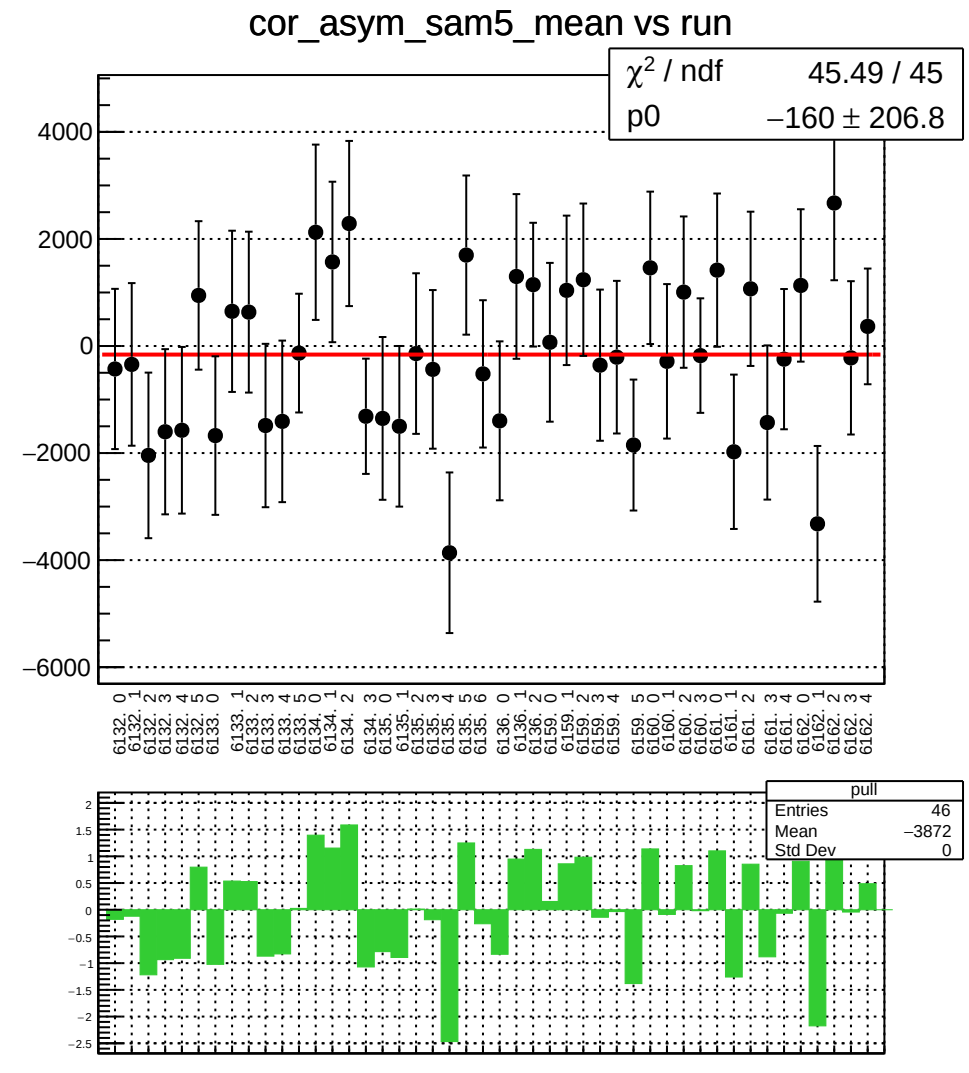
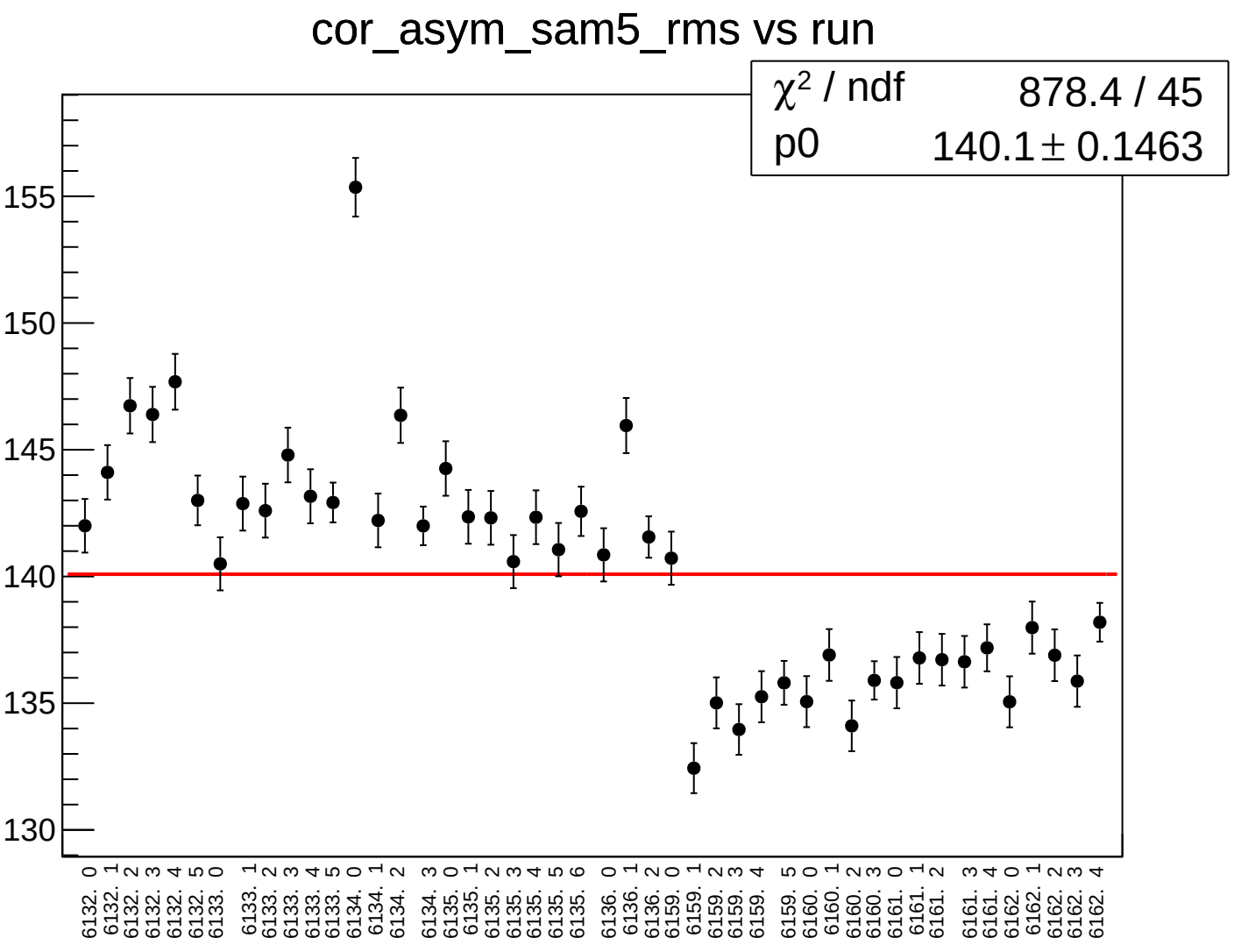
6162. 2
6162. 3
6162. 4


cor_asym_sam5_mean vs run
χ² / ndf 45.49 / 45
p0 −160 ± 206.8
4000
2000
0
−2000
−4000
−6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −3872
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.0005471
Std Dev 0.9944
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam5_rms vs run
χ² / ndf 878.4 / 45
p0 140.1 ± 0.1463
155
150
145
140
135
130
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
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6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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6162. 0
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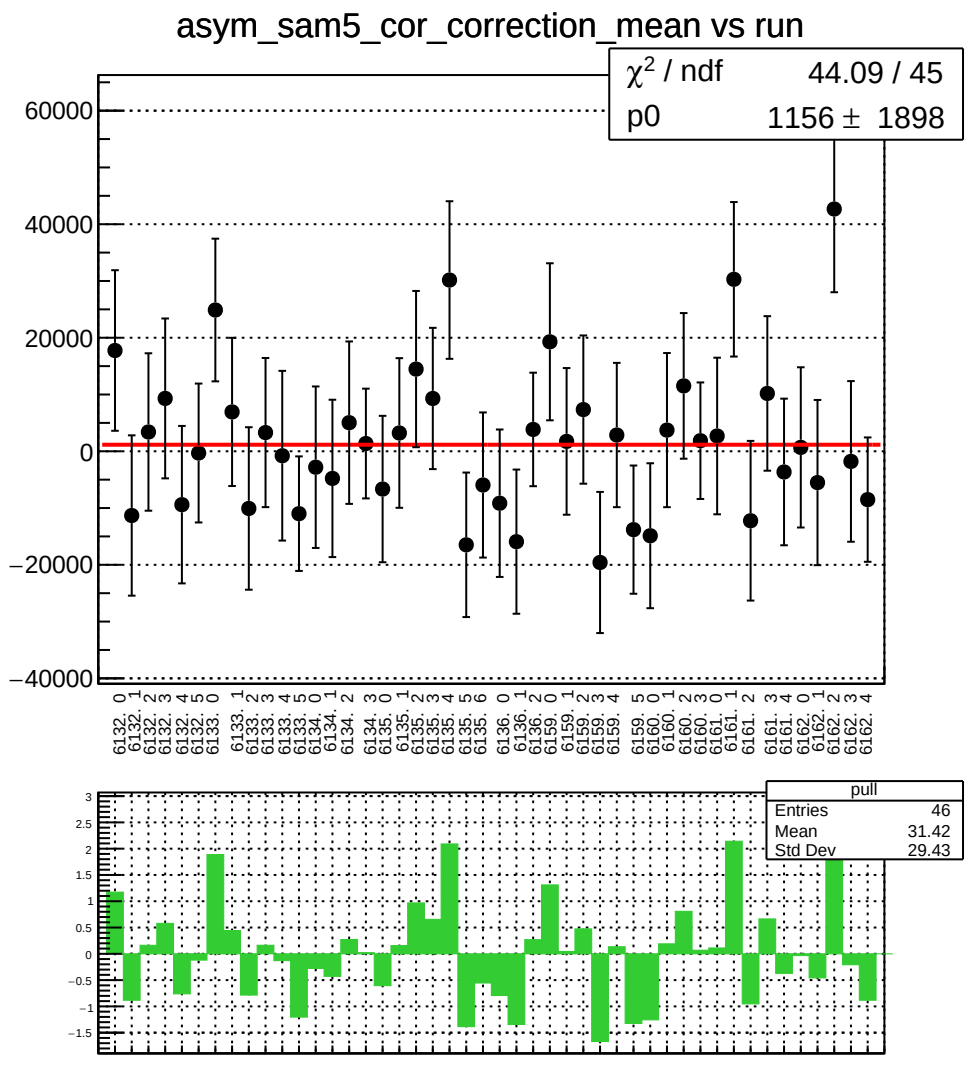
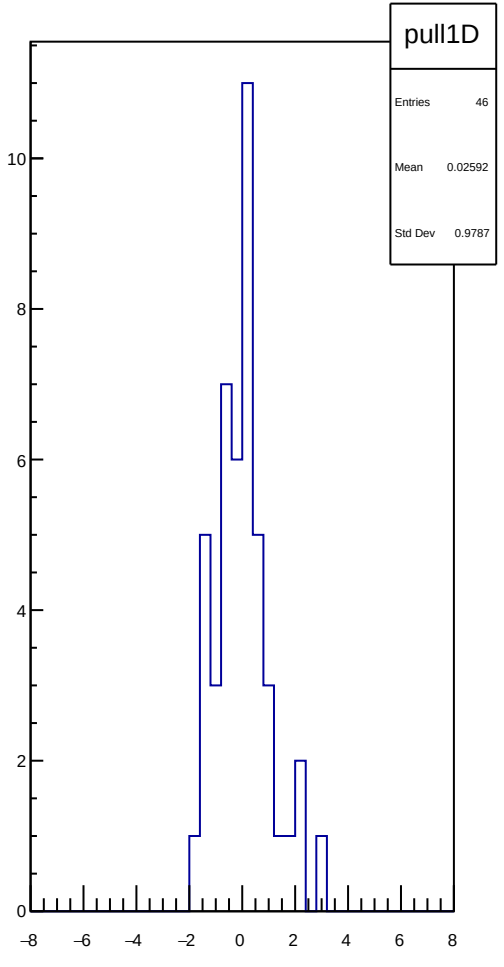
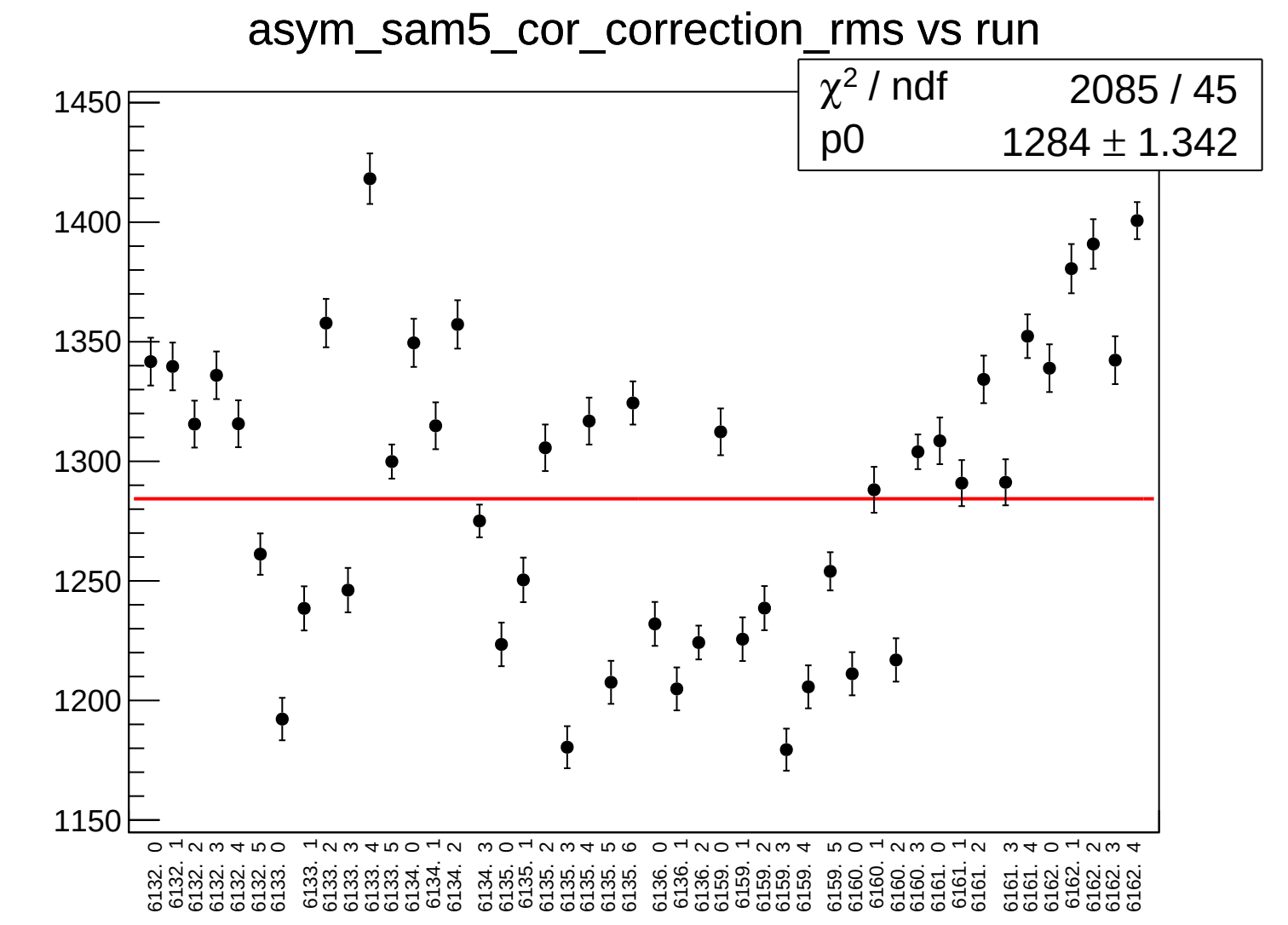
6162. 3
6162. 4


asym_sam5_cor_correction_mean vs run
χ² / ndf 44.09 / 45
p0 1156 ± 1898
pull
Entries 46
Mean 31.42
Std Dev 29.43


pull1D
Entries 46
Mean 0.02592
Std Dev 0.9787


asym_sam5_cor_correction_rms vs run
χ² / ndf 2085 / 45
p0 1284 ± 1.342
1450
1400
1350
1300
1250
1200
1150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6134. 2
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6135. 0
6135. 1
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6135. 6
6136. 0
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6159. 2
6159. 3
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6160. 0
6160. 1
6160. 2
6160. 3
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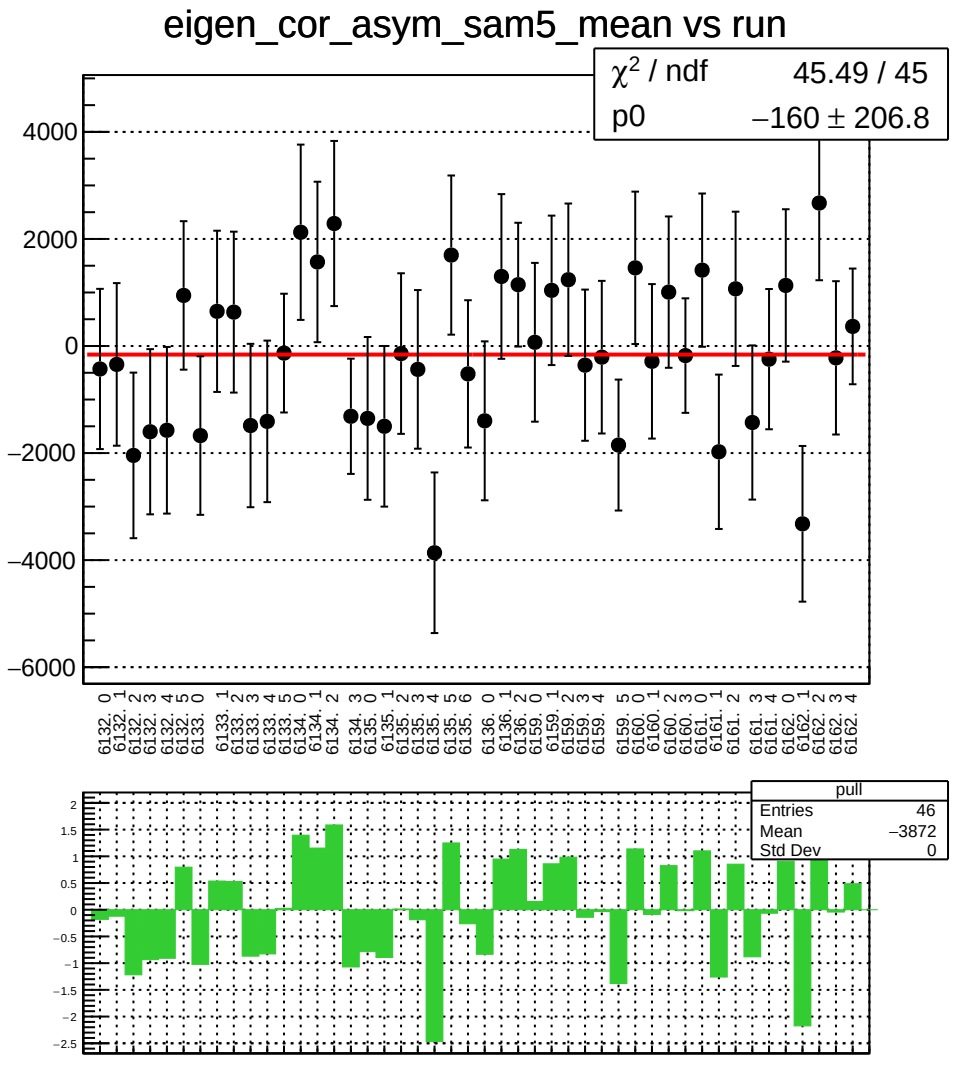
6162. 2
6162. 3
6162. 4


eigen_cor_asym_sam5_mean vs run
χ² / ndf 45.49 / 45
p0 −160 ± 206.8
4000
2000
0
−2000
−4000
−6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
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6136. 0
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6160. 1
6160. 2
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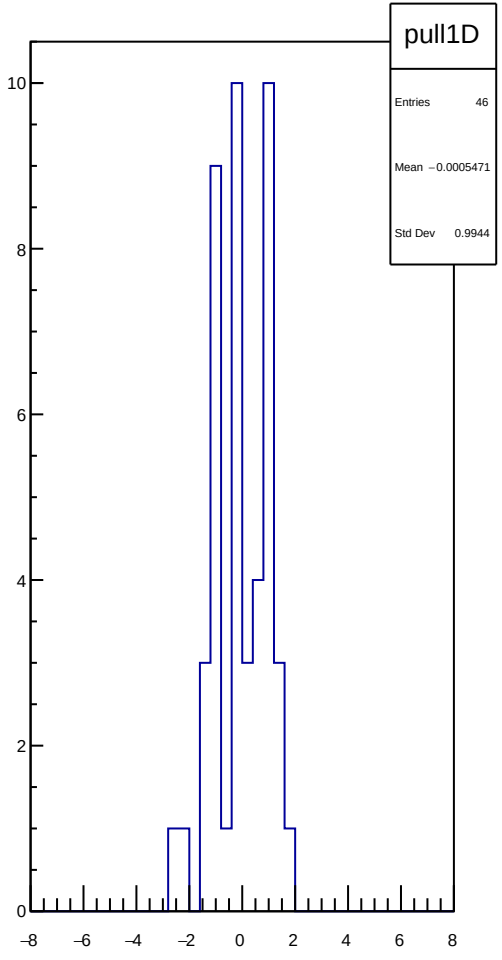
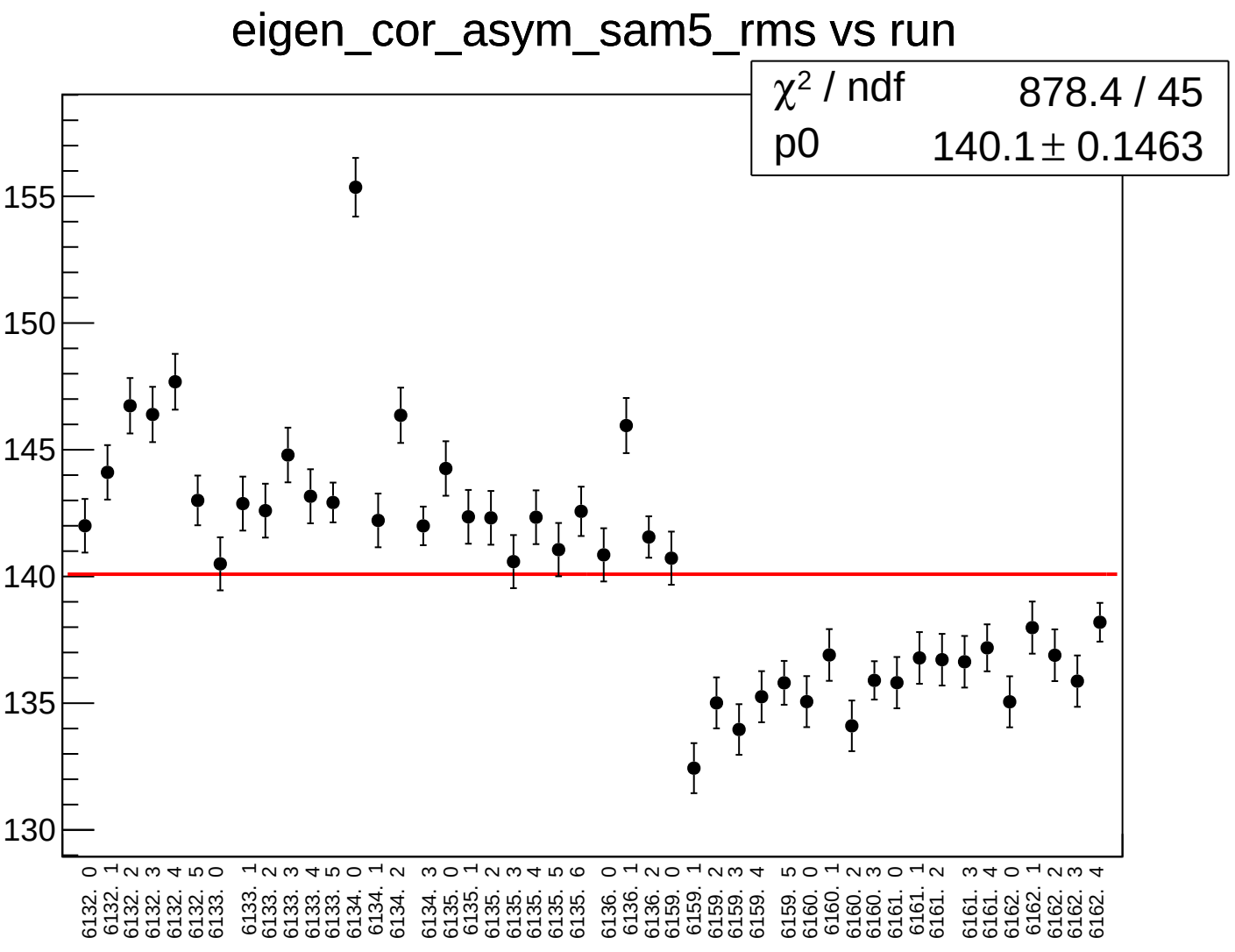
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −3872
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.0005471
Std Dev 0.9944
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam5_rms vs run
χ² / ndf 878.4 / 45
p0 140.1 ± 0.1463
155
150
145
140
135
130
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6135. 6
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6136. 1
6136. 2
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6159. 1
6159. 2
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6160. 0
6160. 1
6160. 2
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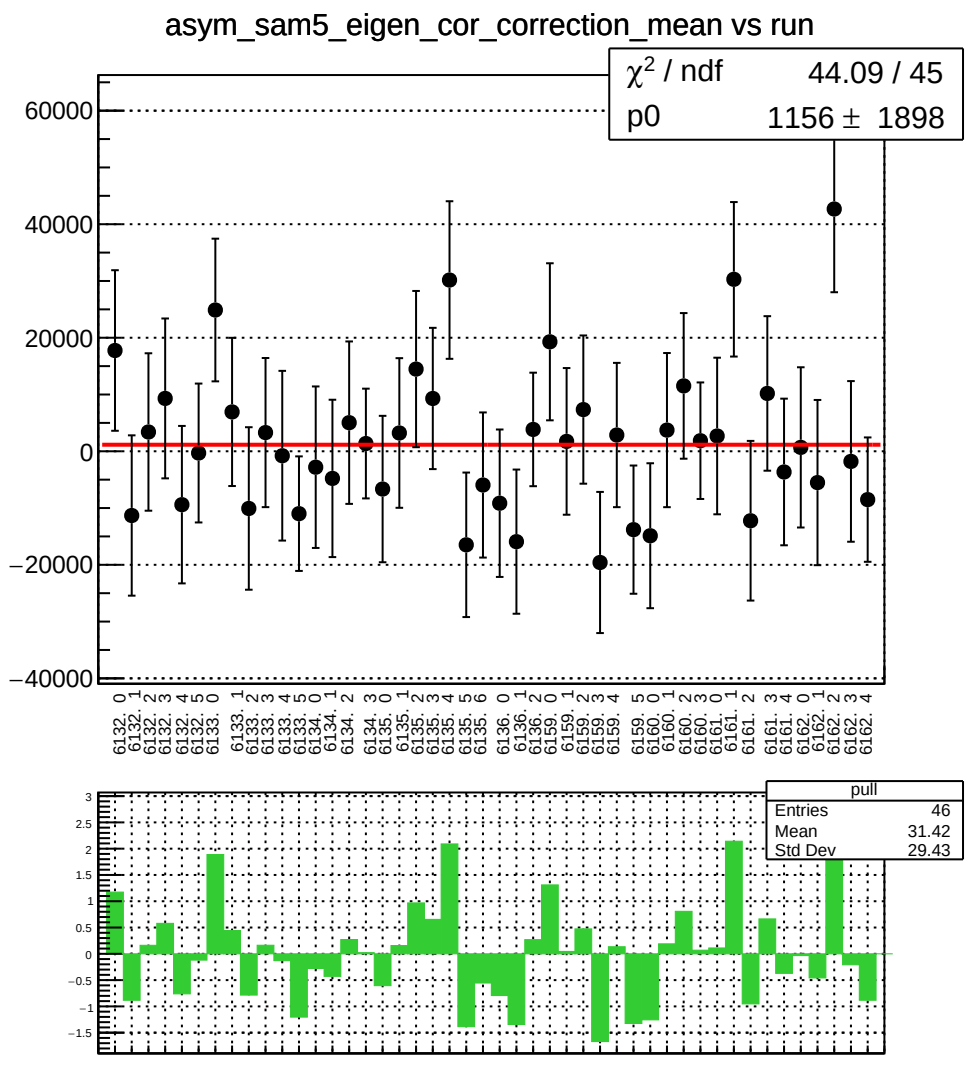
6162. 4


asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 44.09 / 45
p0 1156 ± 1898
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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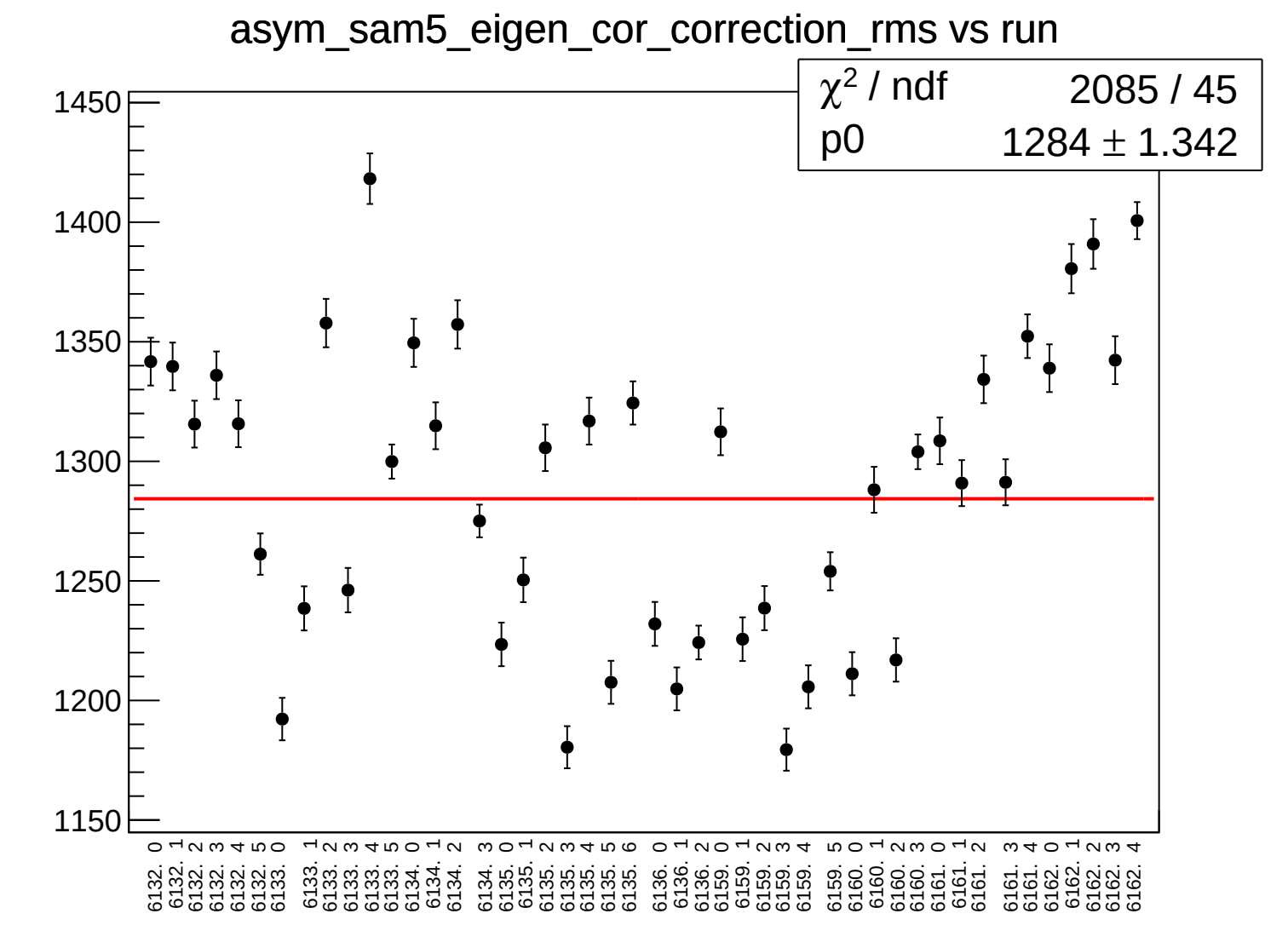
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 31.42
Std Dev 29.43
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.02592
Std Dev 0.9787
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 2085 / 45
p0 1284 ± 1.342
1450
1400
1350
1300
1250
1200
1150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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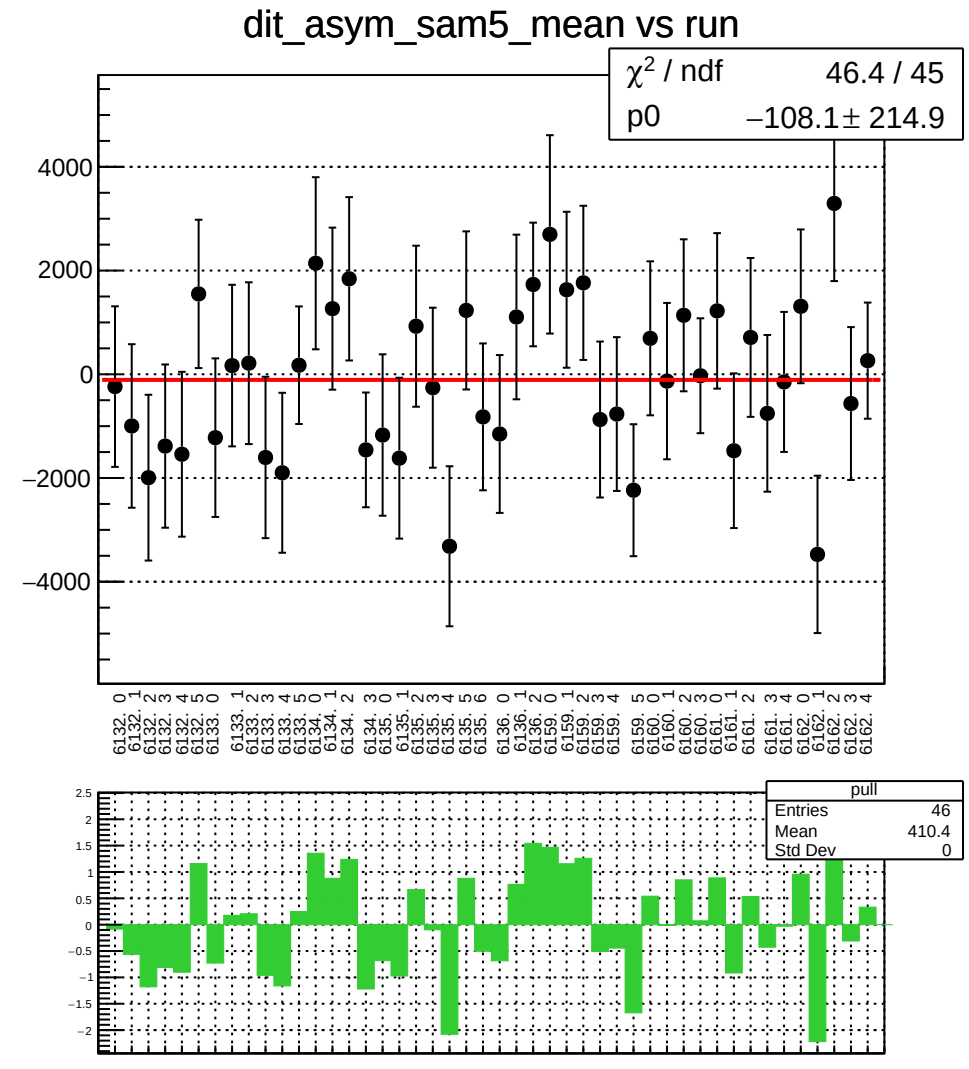
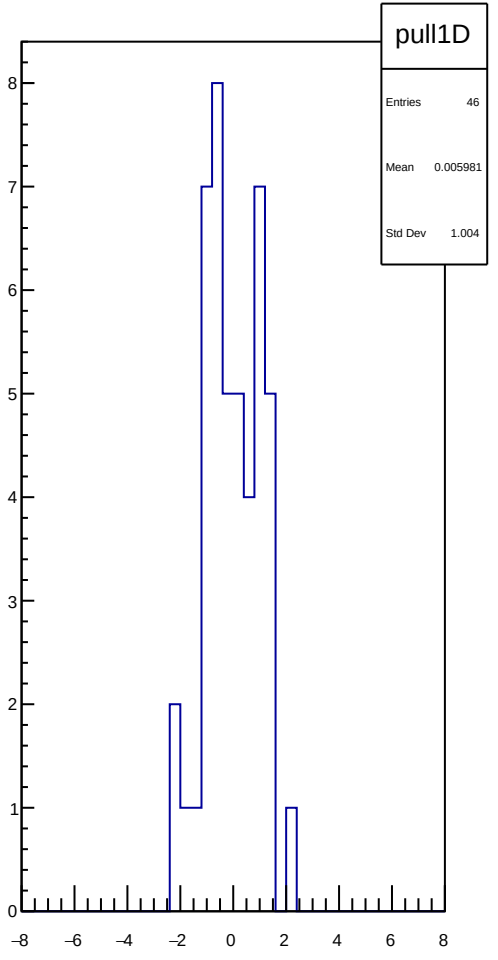
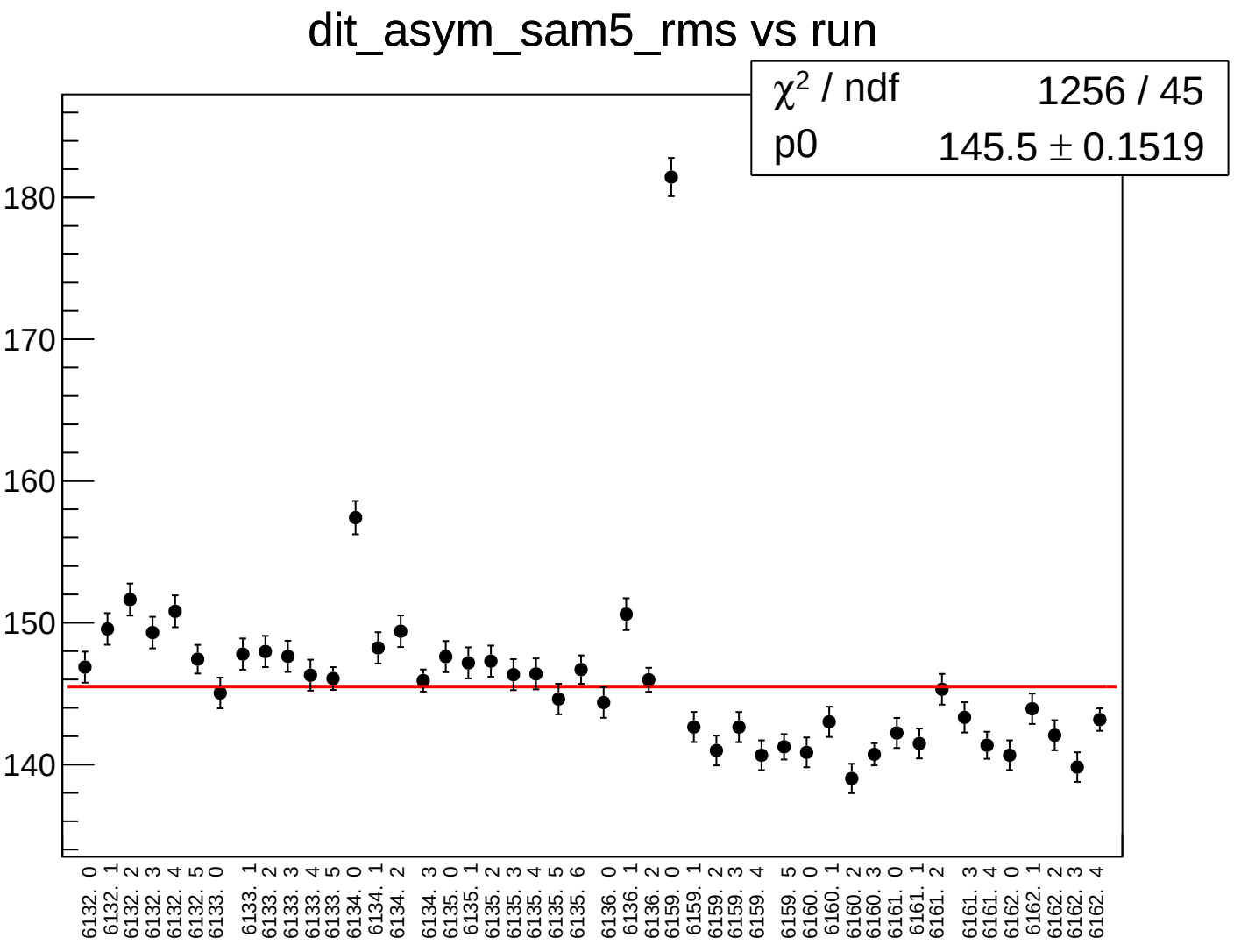
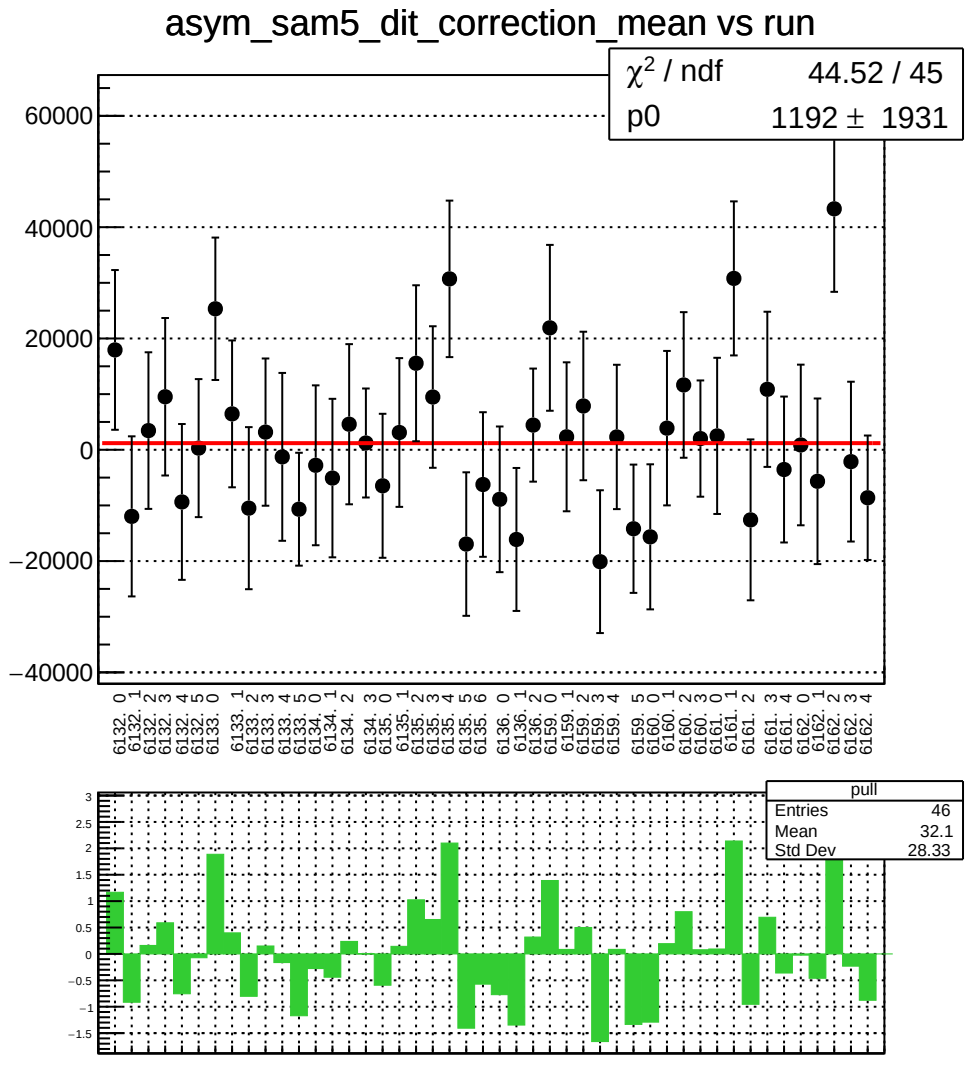
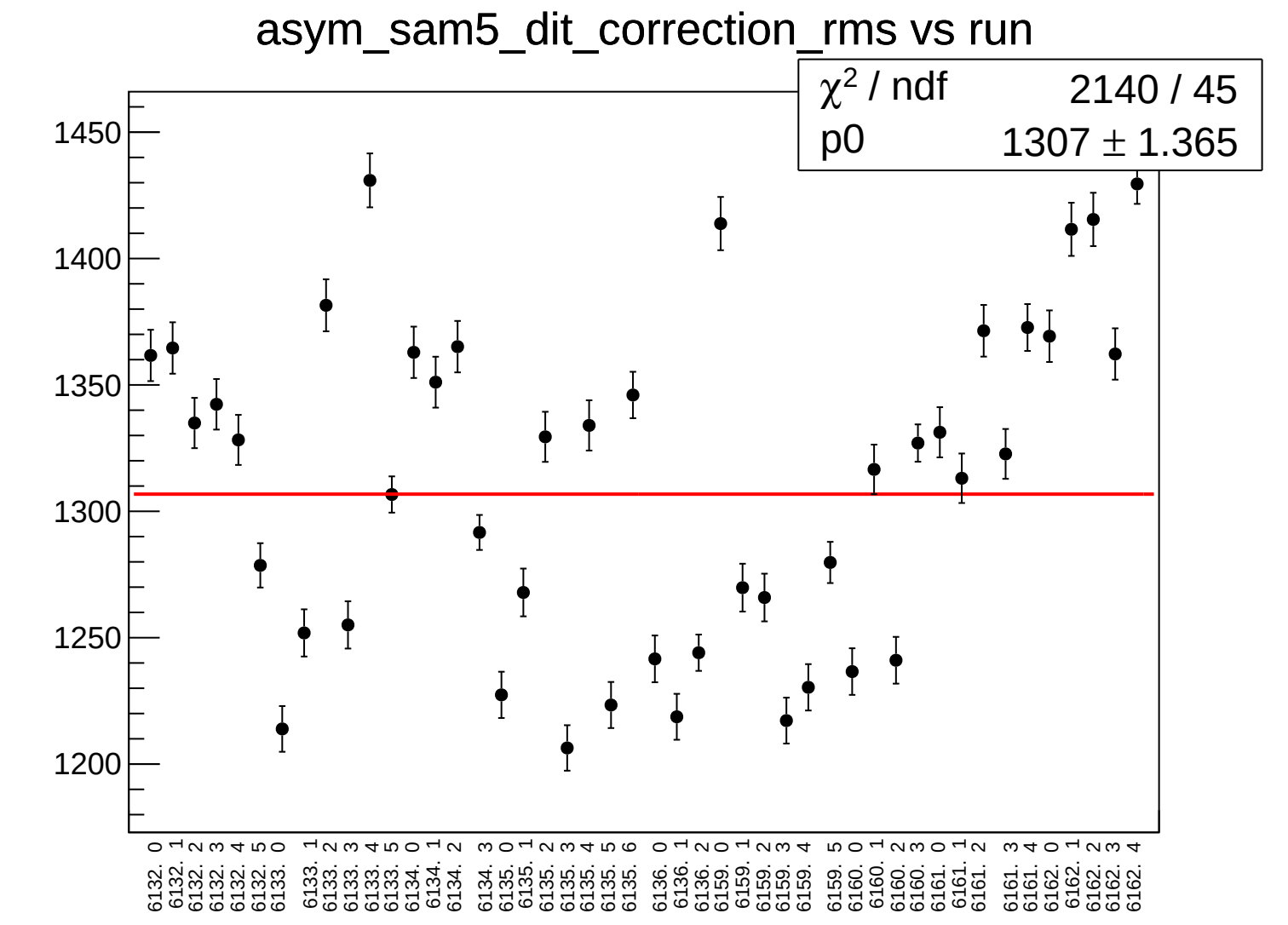
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

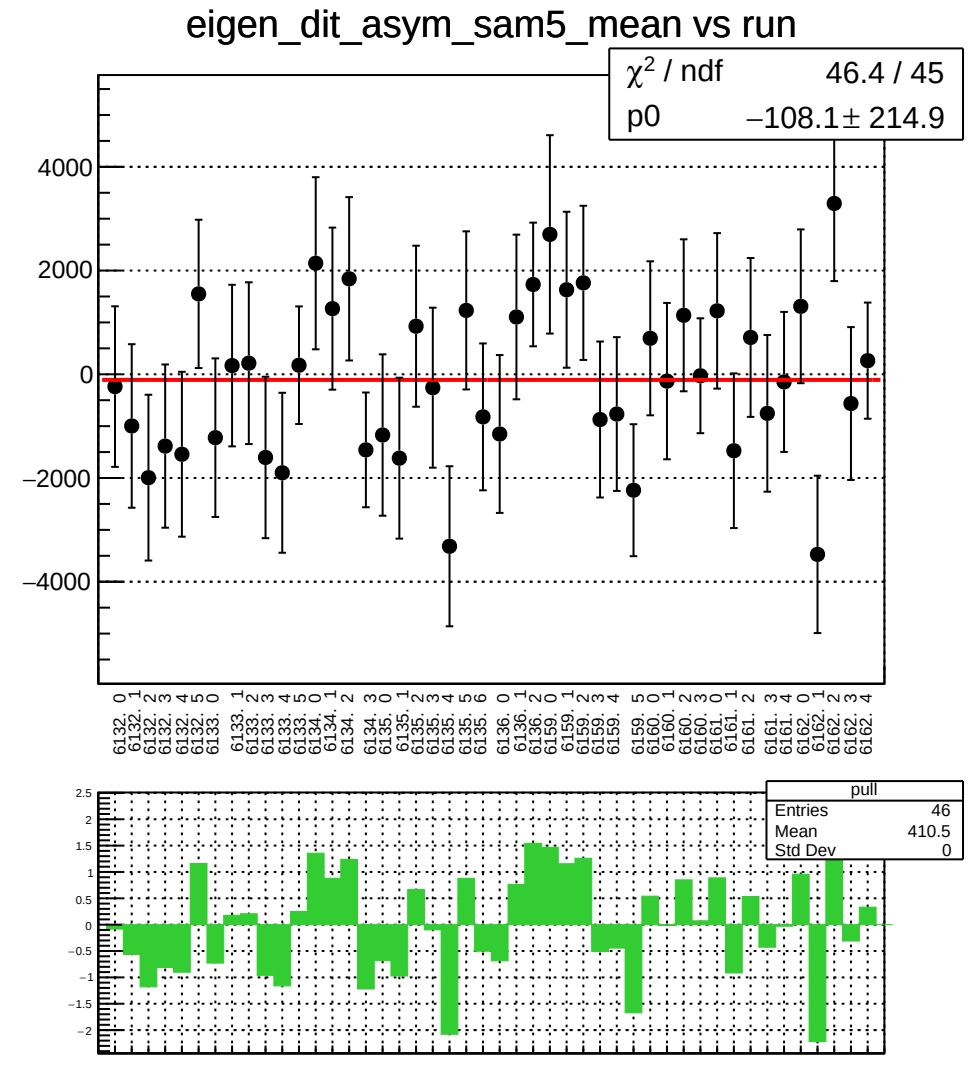

dit_asym_sam5_mean vs run
χ² / ndf 46.4 / 45
p0 −108.1± 214.9
4000
2000
0
−2000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 410.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

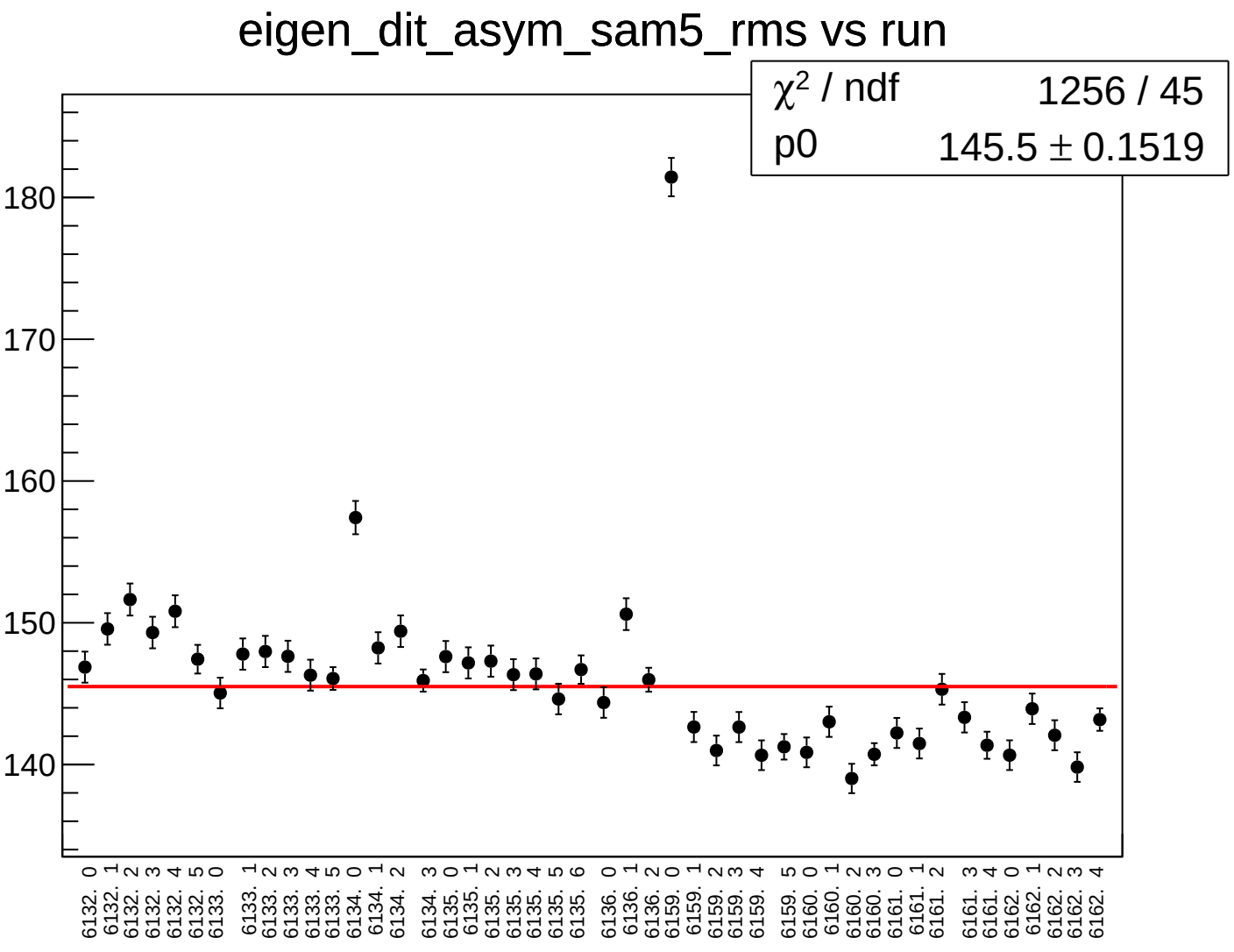

pull1D
Entries 46
Mean 0.005981
Std Dev 1.004
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam5_rms vs run
χ² / ndf 1256 / 45
p0 145.5 ± 0.1519
180
170
160
150
140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam5_dit_correction_mean vs run
χ² / ndf 44.52 / 45
p0 1192 ± 1931
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 32.1
Std Dev 28.33
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.02685
Std Dev 0.9834
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_dit_correction_rms vs run
χ² / ndf 2140 / 45
p0 1307 ± 1.365
1450
1400
1350
1300
1250
1200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_dit_asym_sam5_mean vs run
χ² / ndf 46.4 / 45
p0 −108.1± 214.9
4000
2000
0
−2000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 410.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.00598
Std Dev 1.004
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam5_rms vs run
χ^2 / ndf 1256 / 45
p0 145.5 ± 0.1519
180
170
160
150
140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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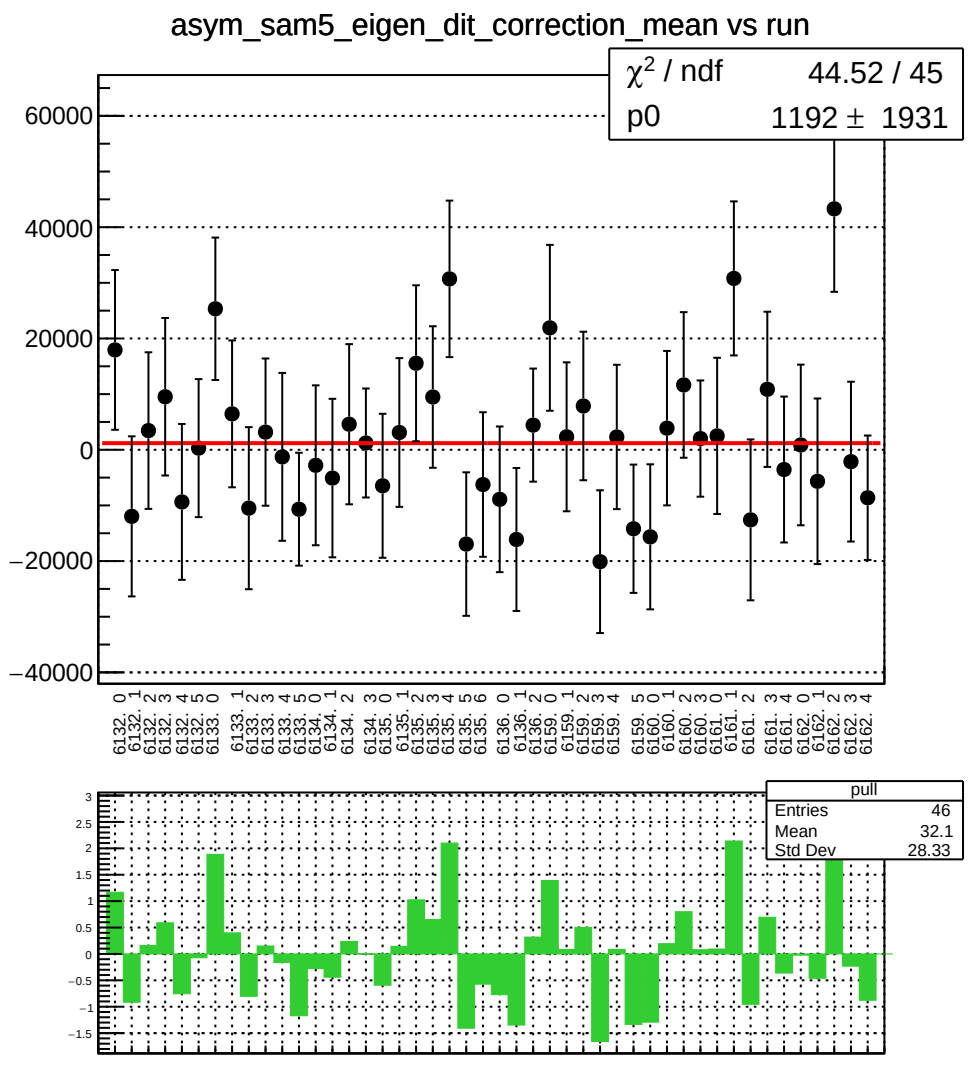
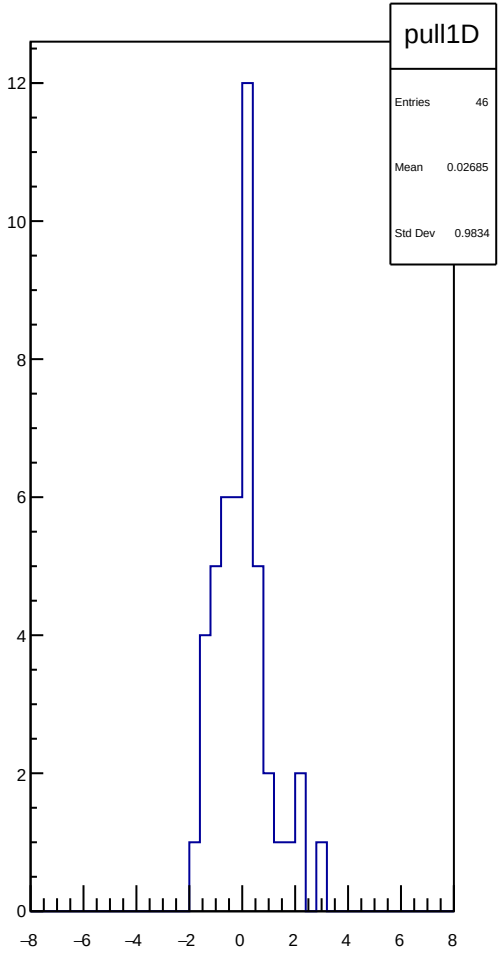
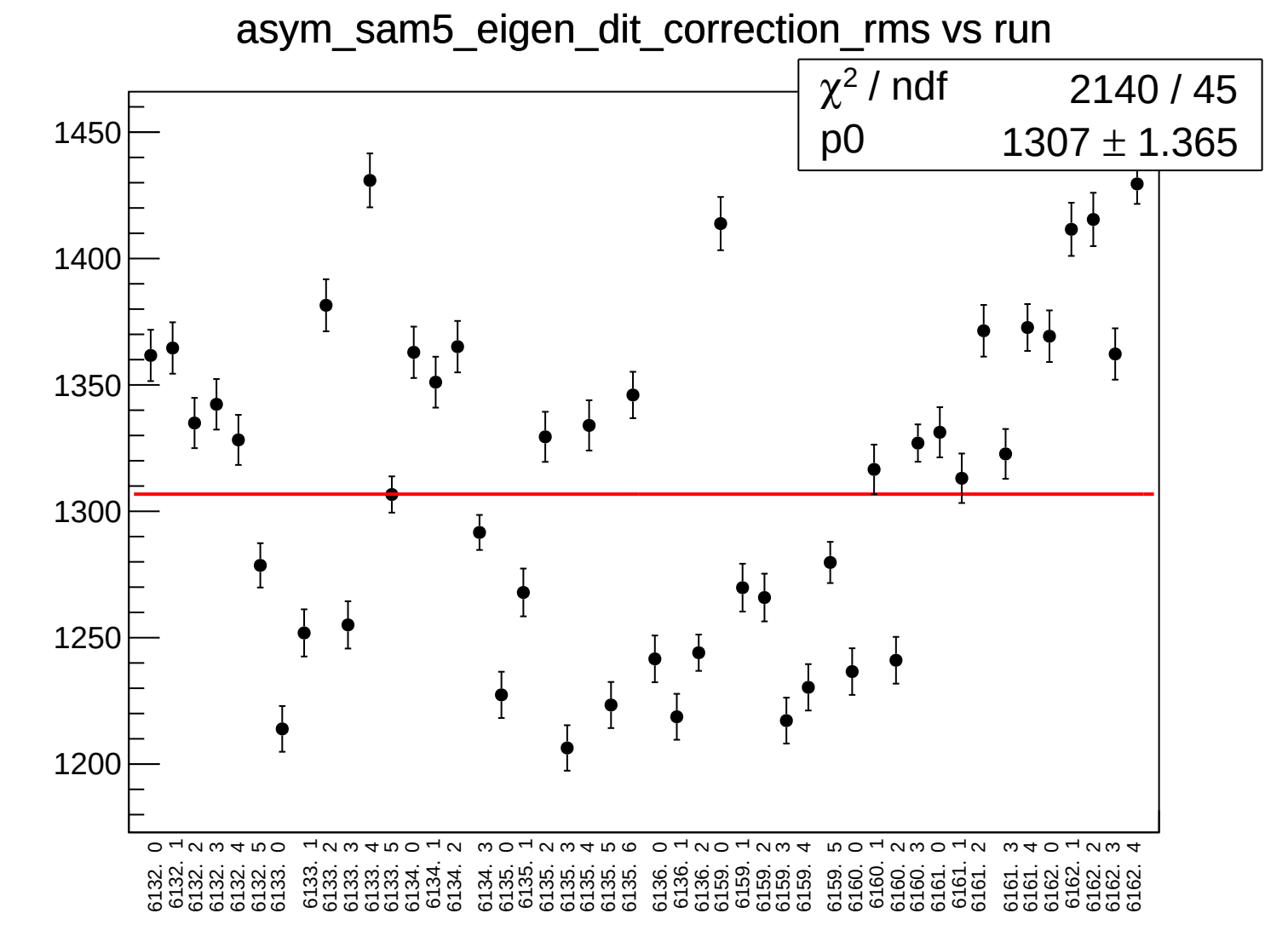
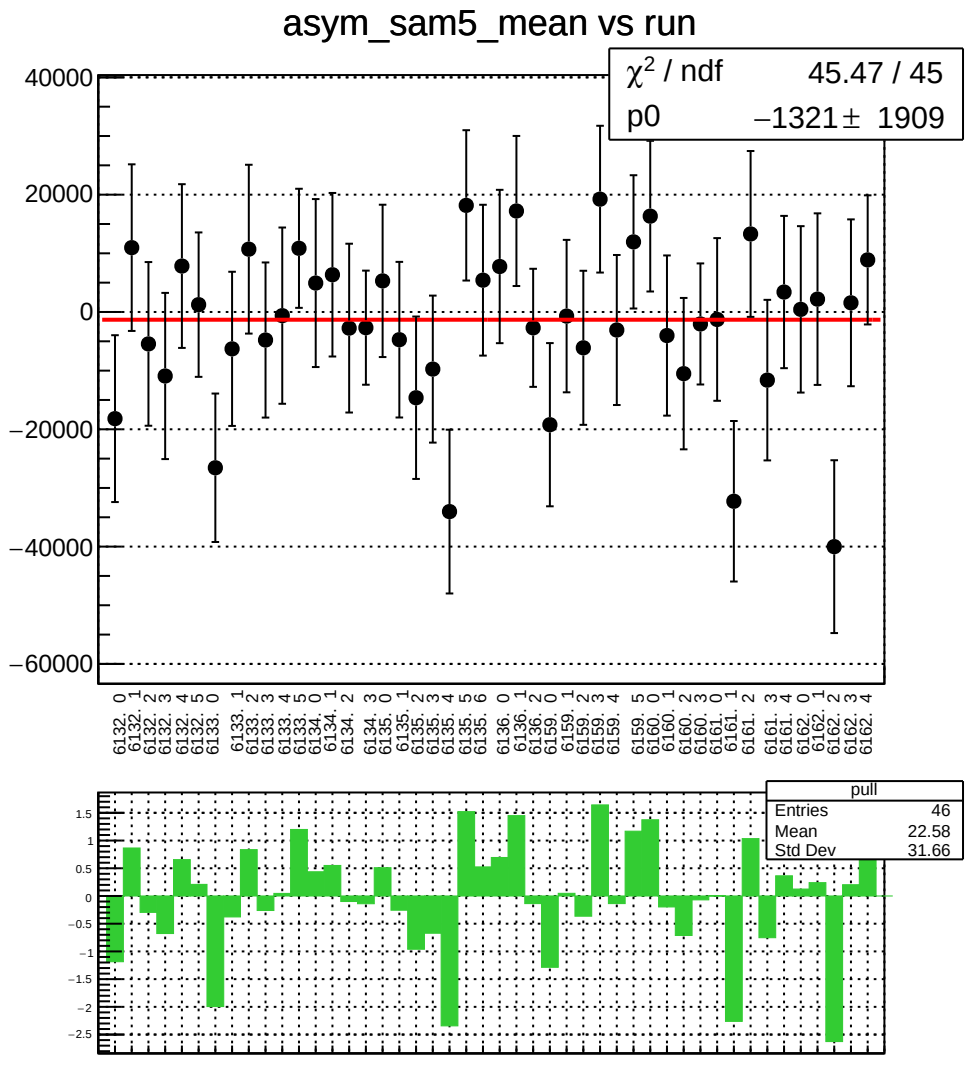
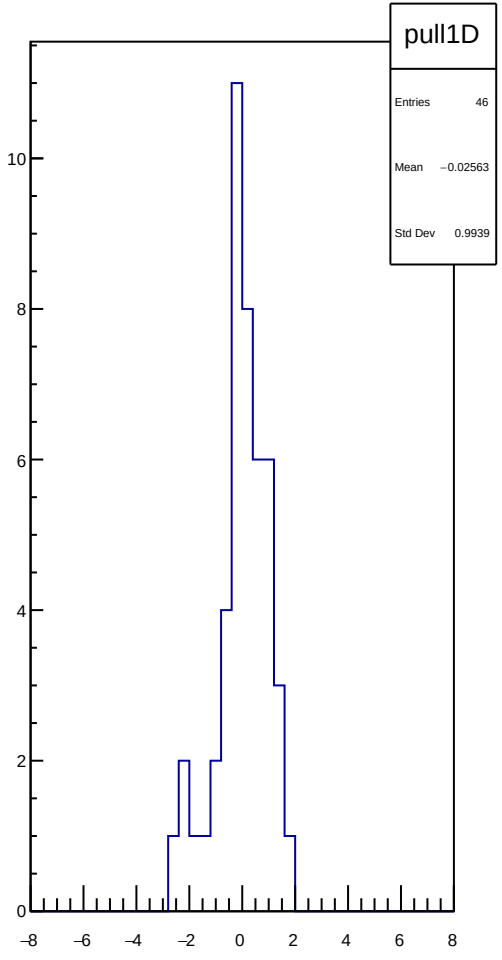
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

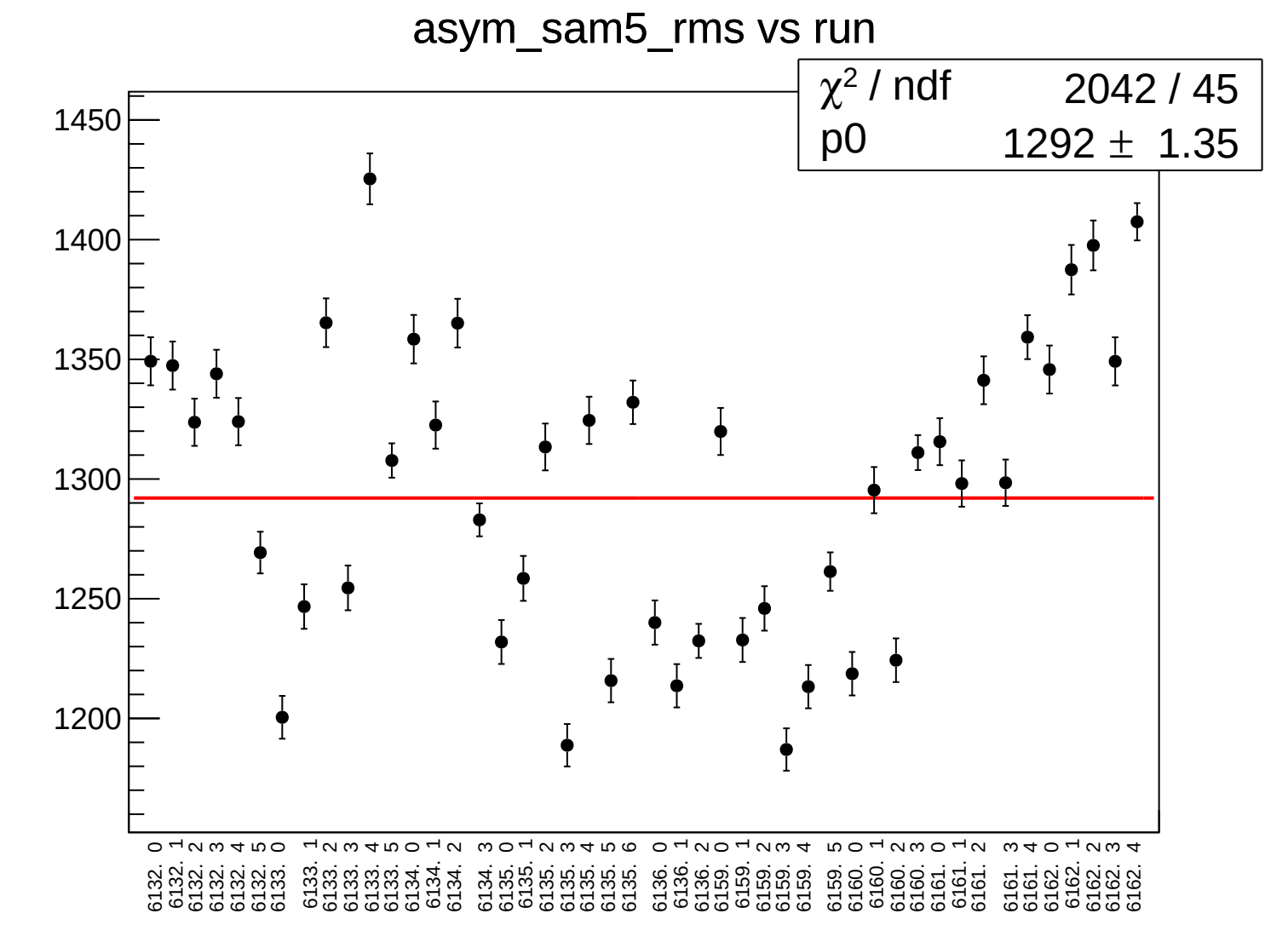

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 44.52 / 45
p0 1192 ± 1931
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 32.1
Std Dev 28.33
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 46
Mean 0.02685
Std Dev 0.9834
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 2140 / 45
p0 1307 ± 1.365
1450
1400
1350
1300
1250
1200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam5_mean vs run
χ² / ndf 45.47 / 45
p0 −1321 ± 1909
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 22.58
Std Dev 31.66
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.02563
Std Dev 0.9939
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_rms vs run
χ² / ndf 2042 / 45
p0 1292 ± 1.35
1450
1400
1350
1300
1250
1200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
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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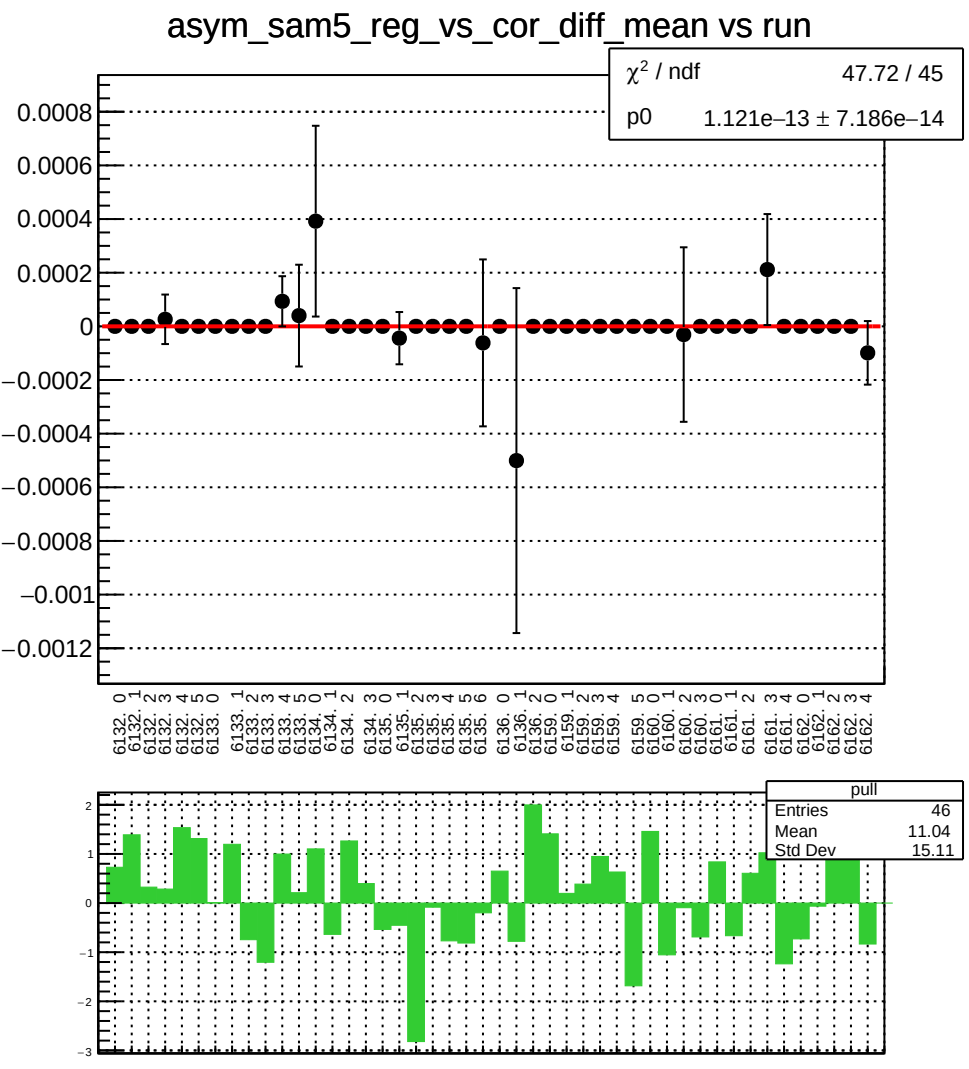
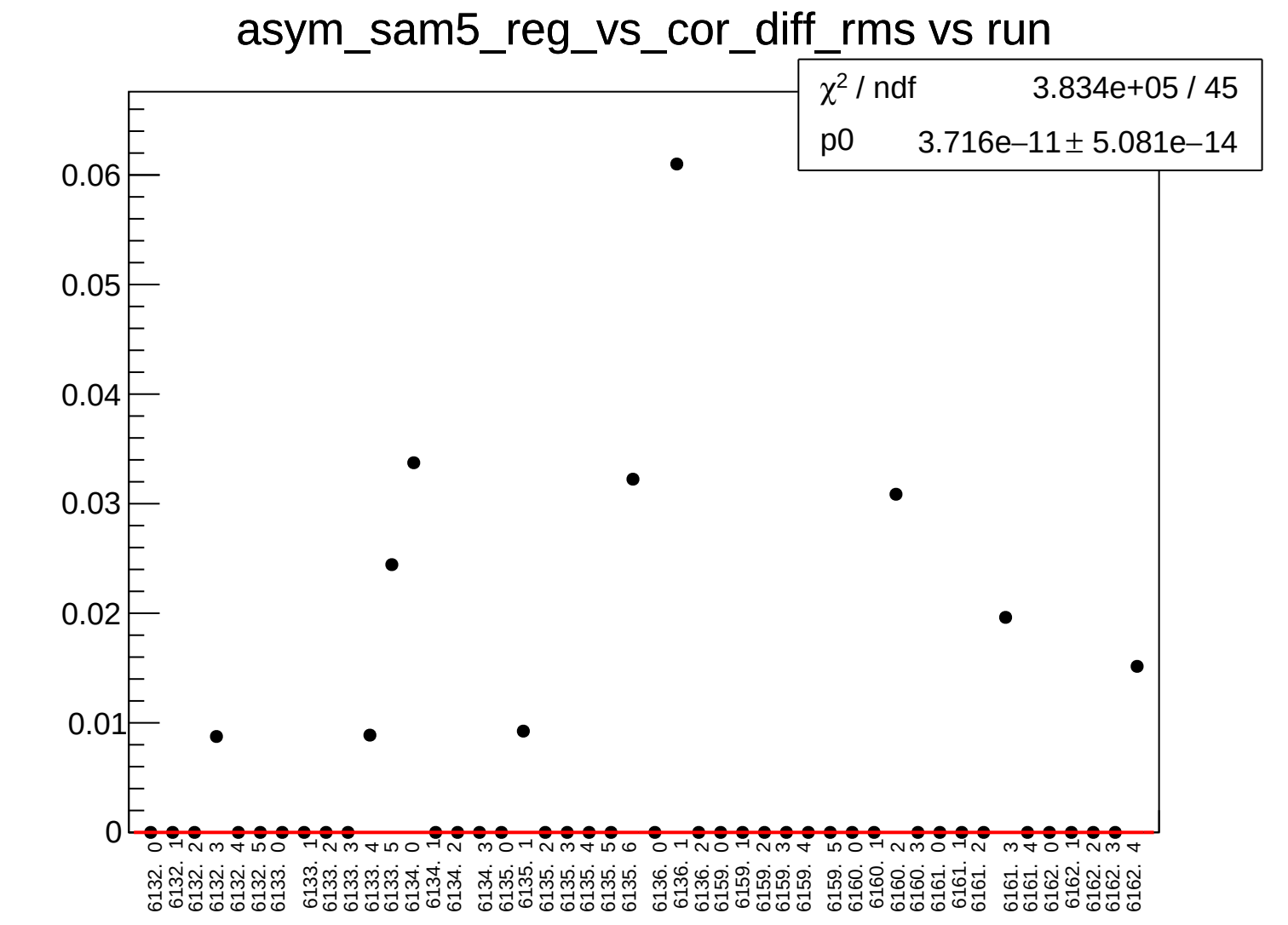
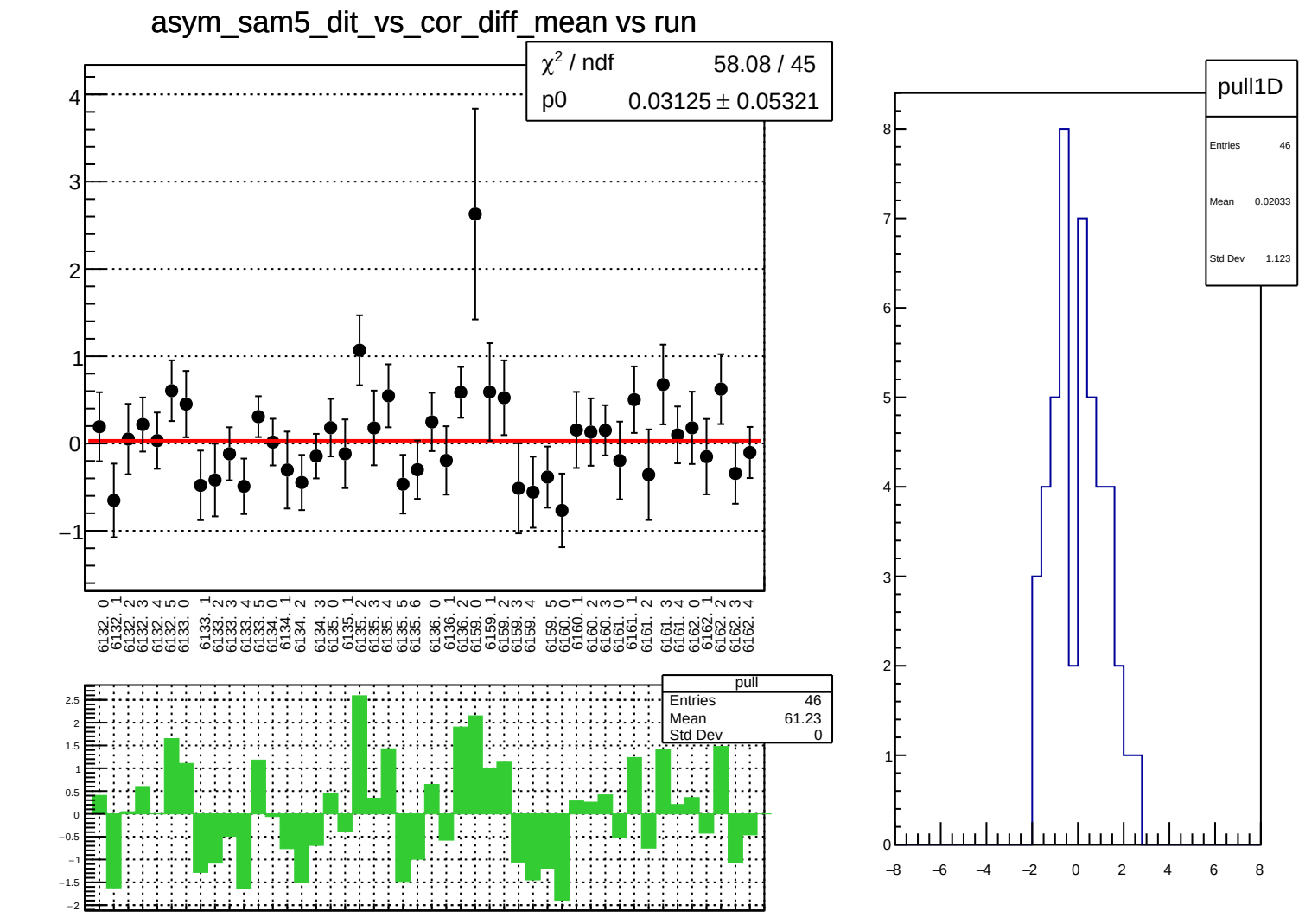
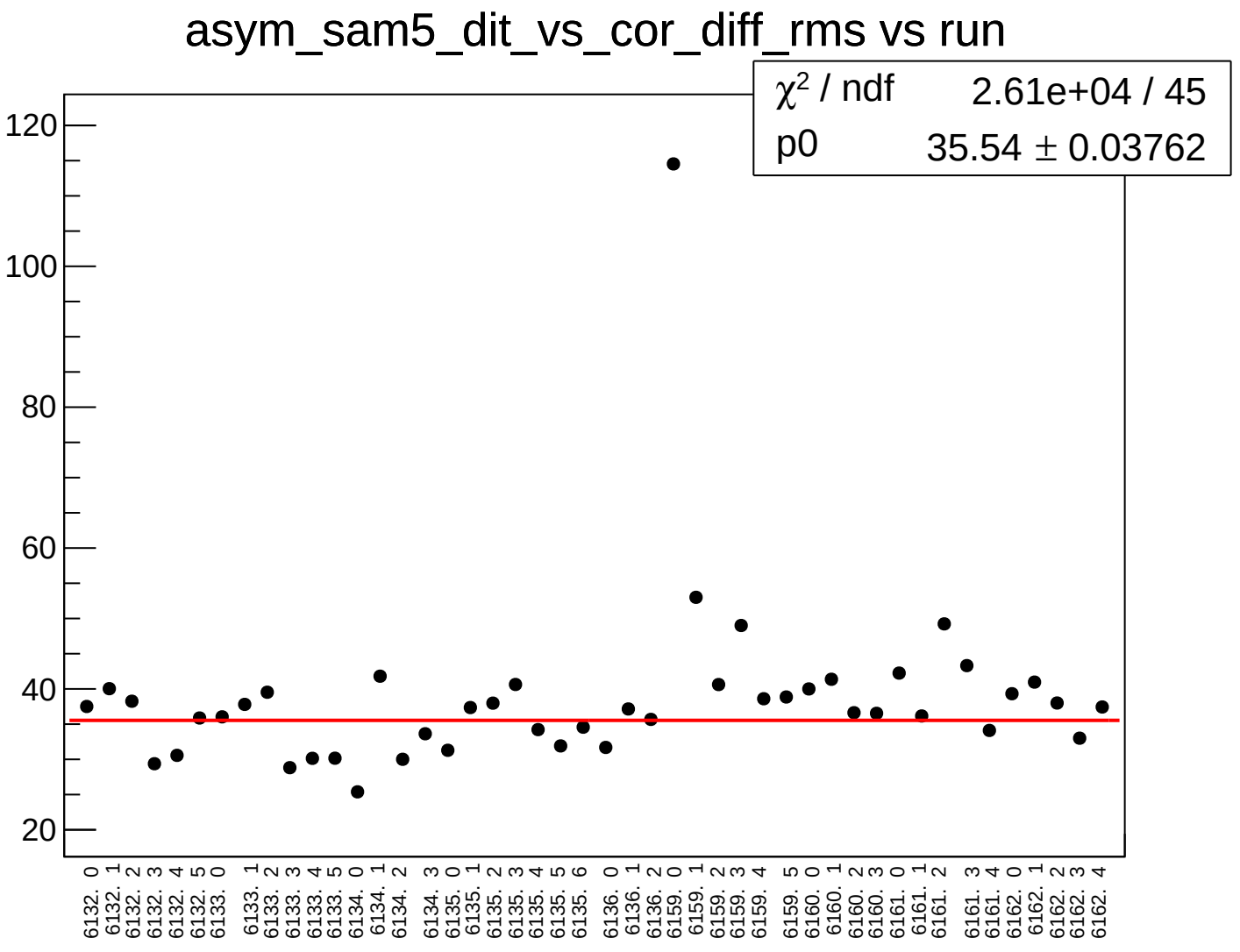
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 47.72 / 45
p0 1.121e−13 ± 7.186e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 11.04
Std Dev 15.11
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean 0.1582
Std Dev 1.006
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 3.834e+05 / 45
p0 3.716e−11 ± 5.081e−14
0.06
0.05
0.04
0.03
0.02
0.01
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 58.08 / 45
p0 0.03125 ± 0.05321
pull
Entries 46
Mean 61.23
Std Dev 0
pull1D
Entries 46
Mean 0.02033
Std Dev 1.123


asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 2.61e+04 / 45
p0 35.54 ± 0.03762
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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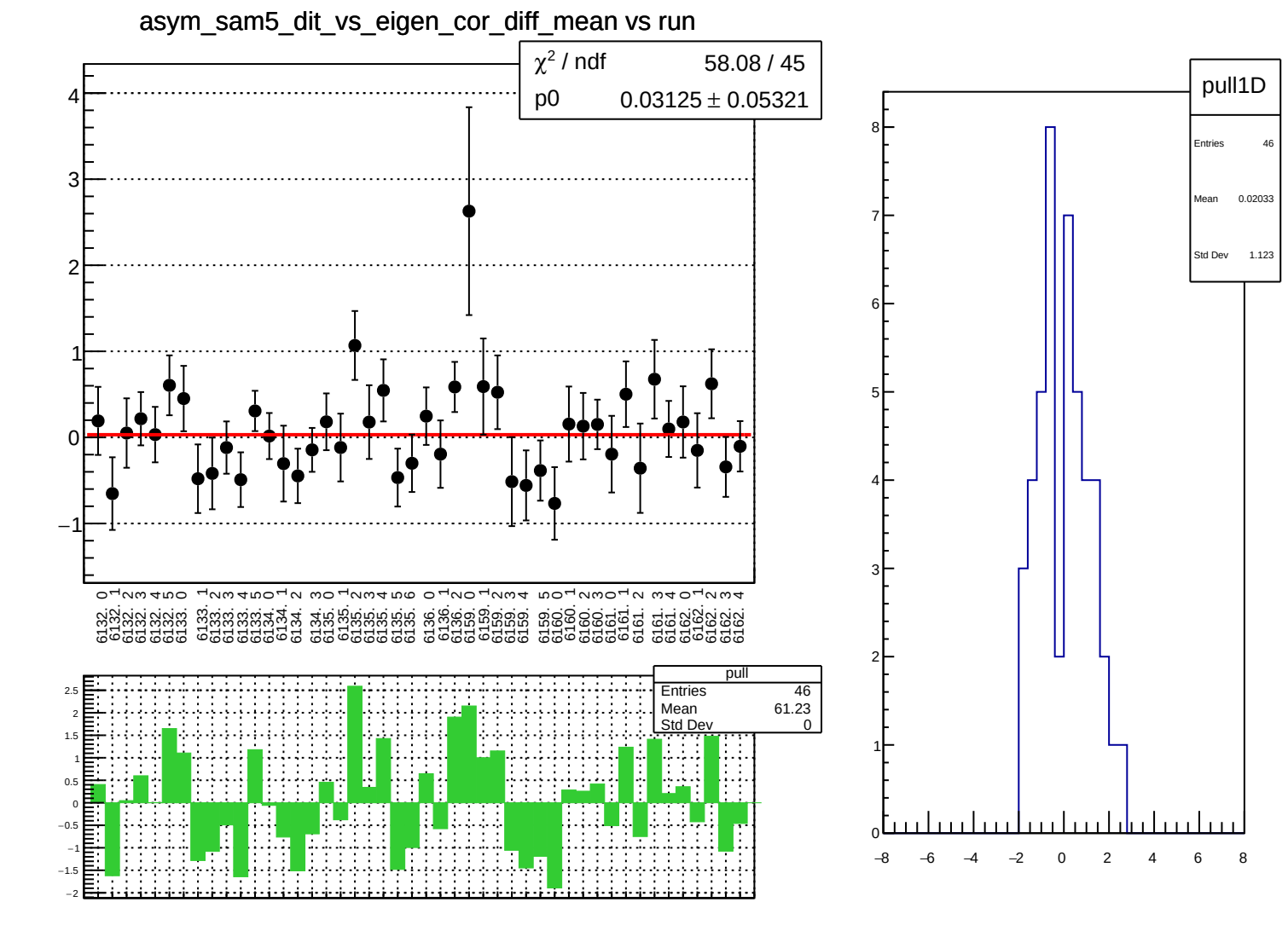
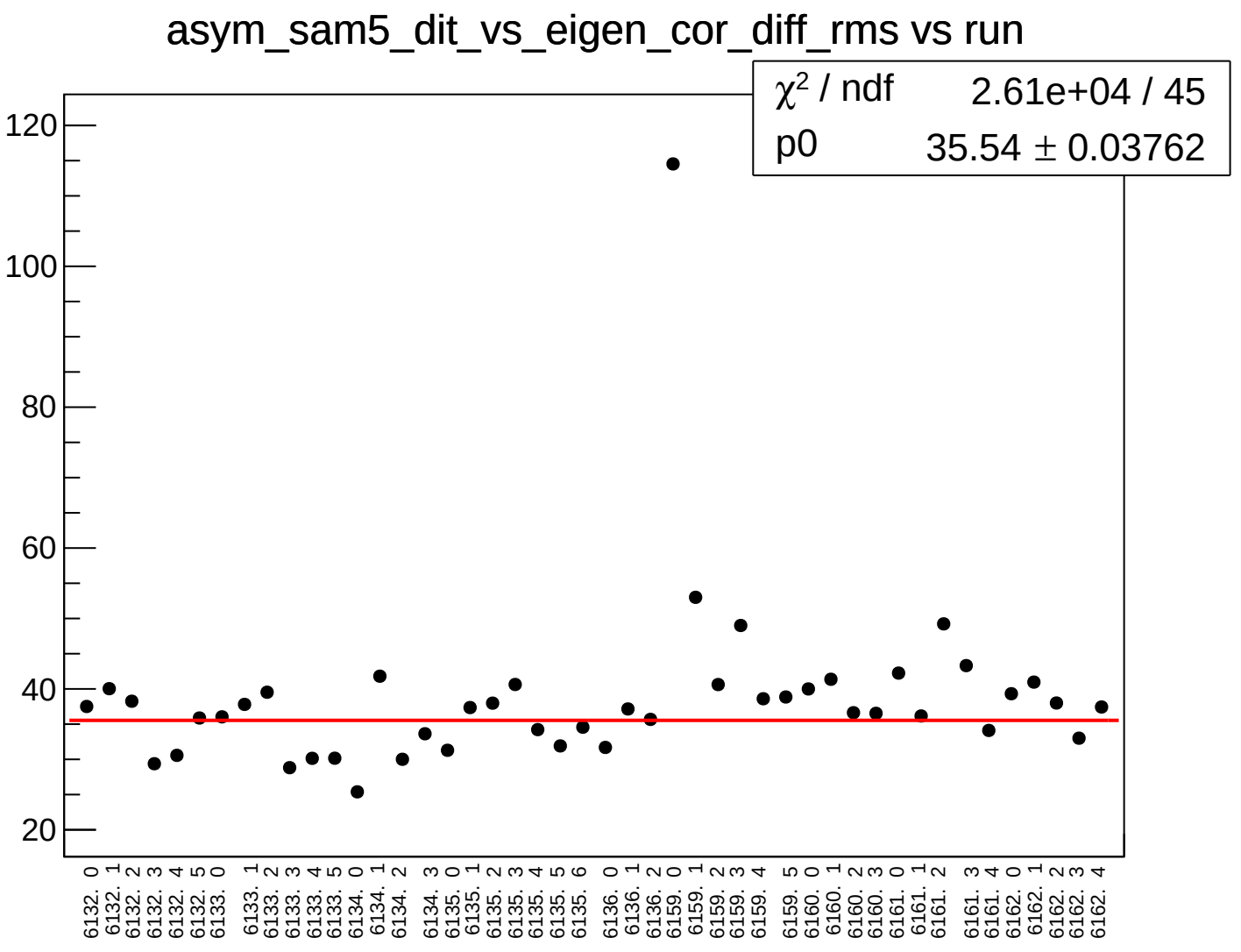
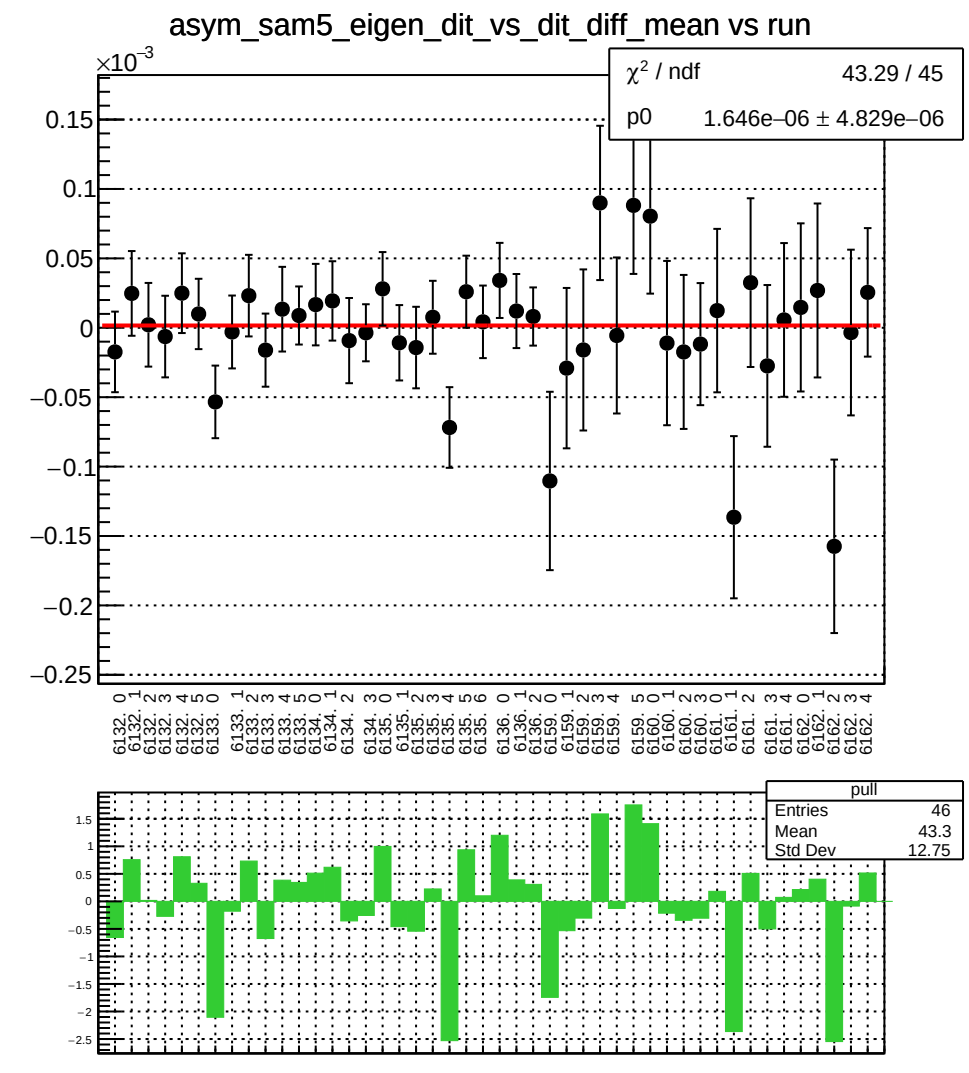
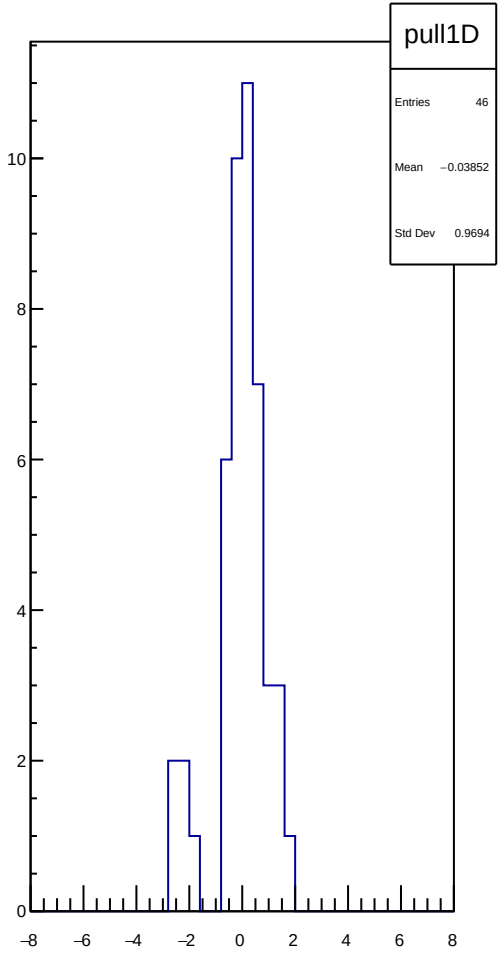
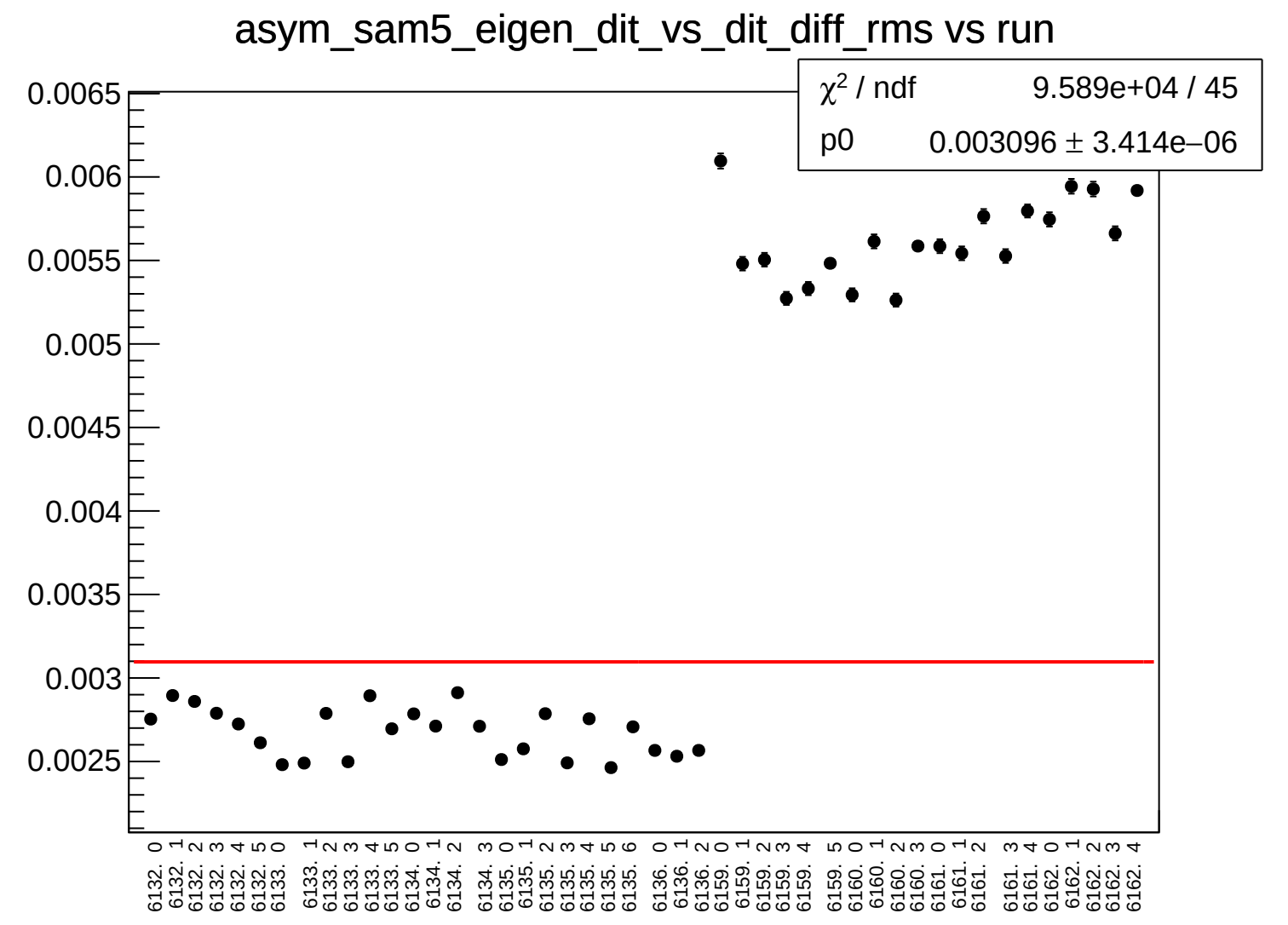
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

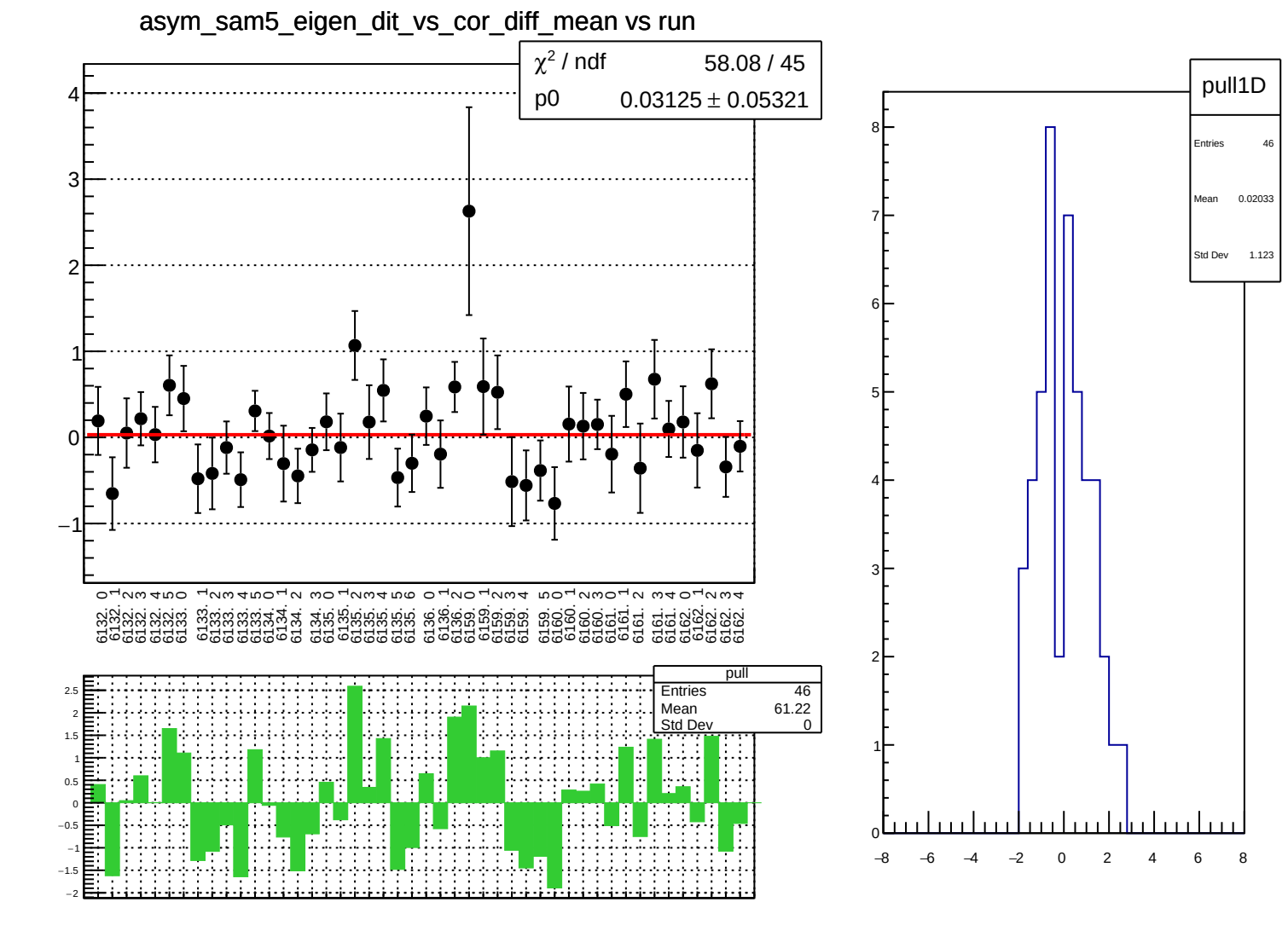

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 58.08 / 45
p0 0.03125 ± 0.05321
pull
Entries 46
Mean 61.23
Std Dev 0
pull1D
Entries 46
Mean 0.02033
Std Dev 1.123

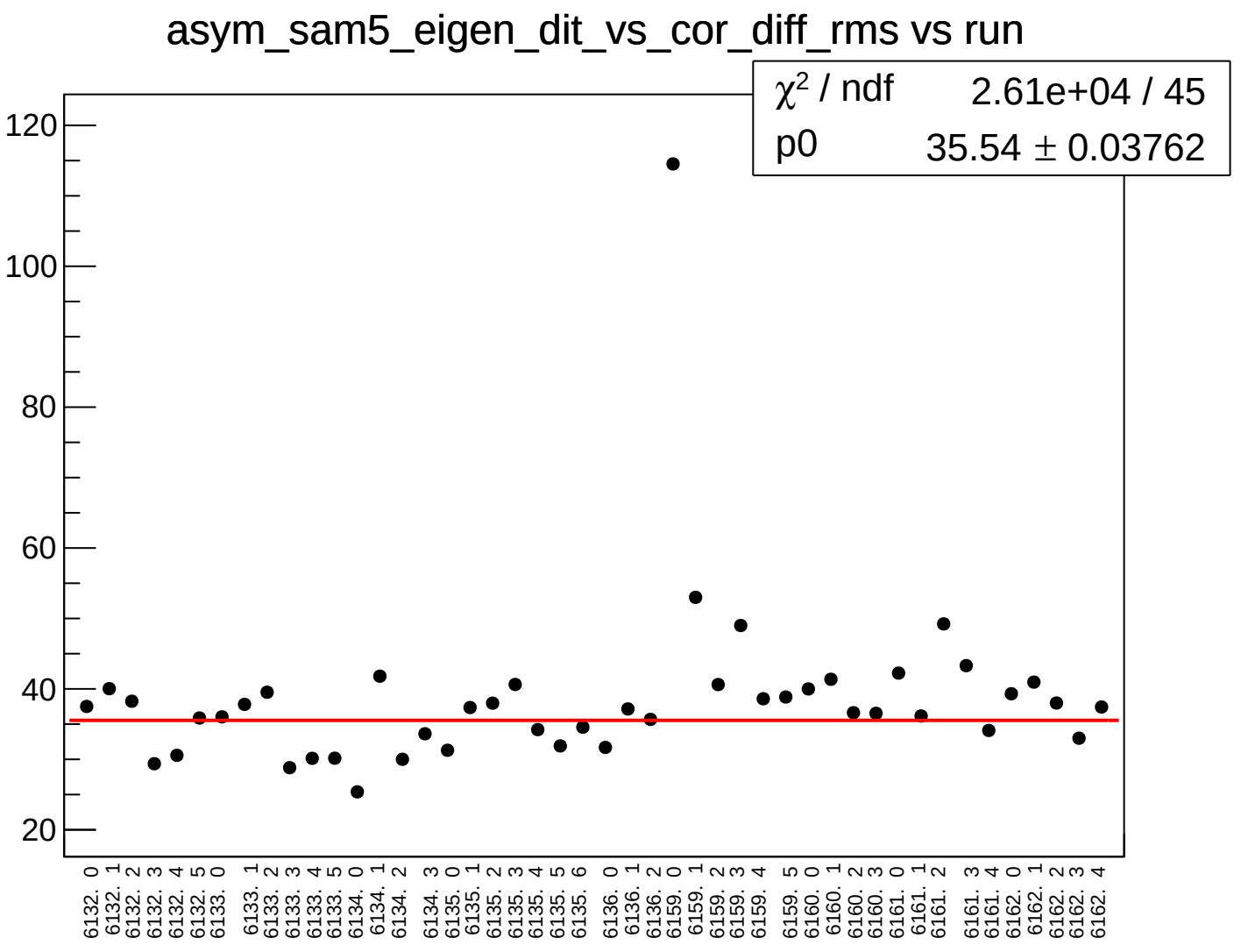

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.61e+04 / 45
p0 35.54 ± 0.03762
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

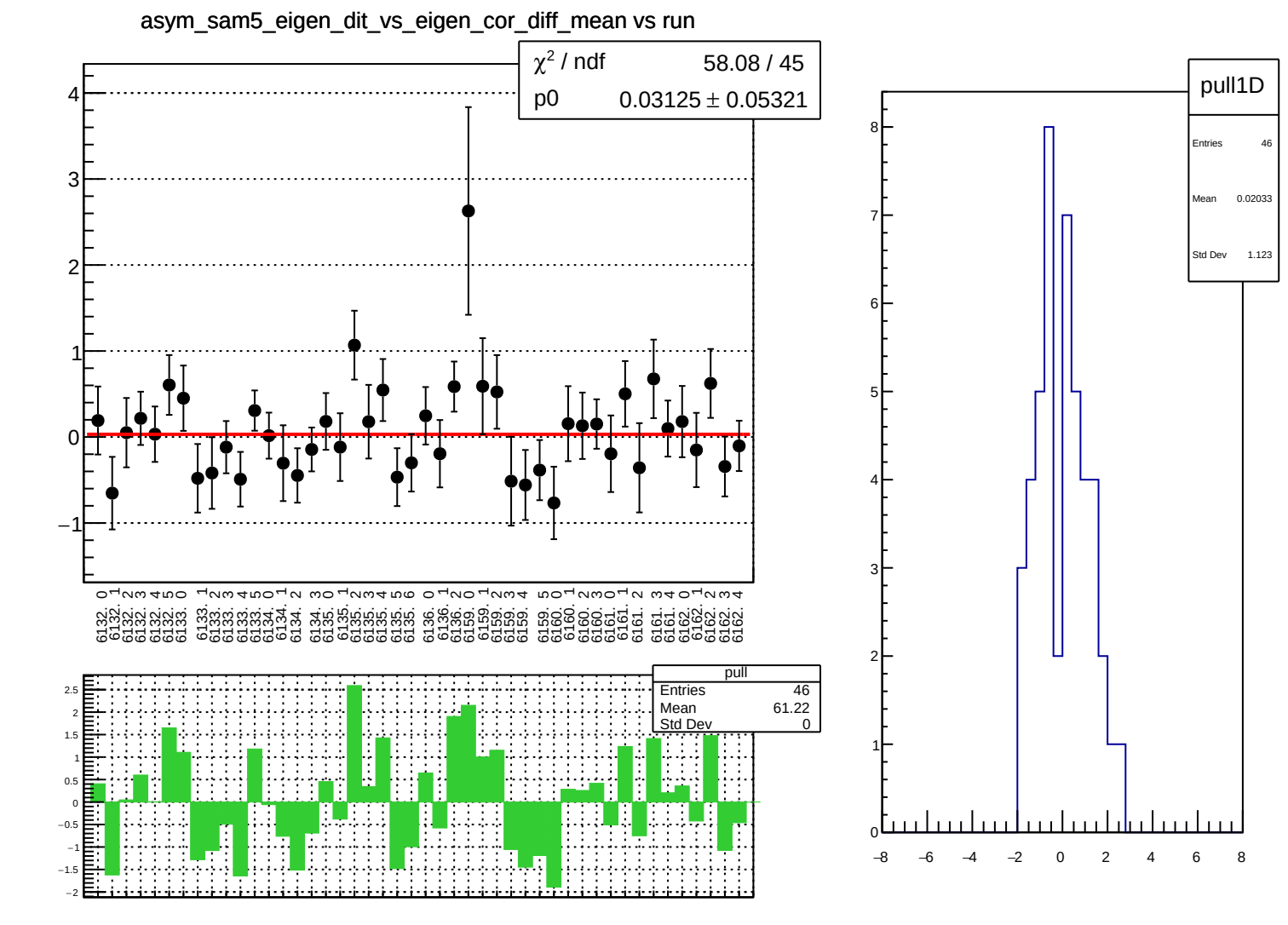

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 43.29 / 45
p0 1.646e−06 ± 4.829e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 43.3
Std Dev 12.75
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

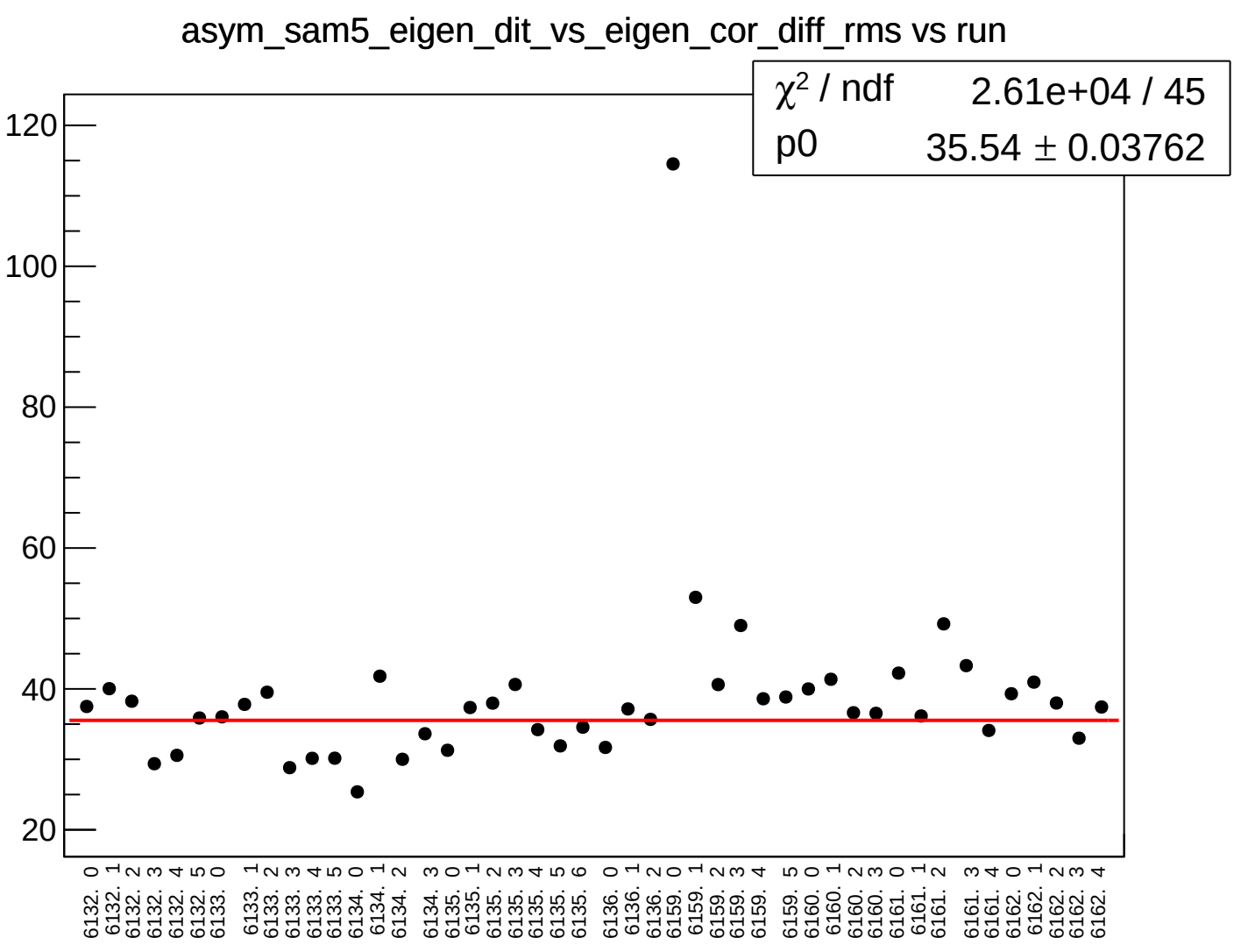

pull1D
Entries 46
Mean −0.03852
Std Dev 0.9694
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

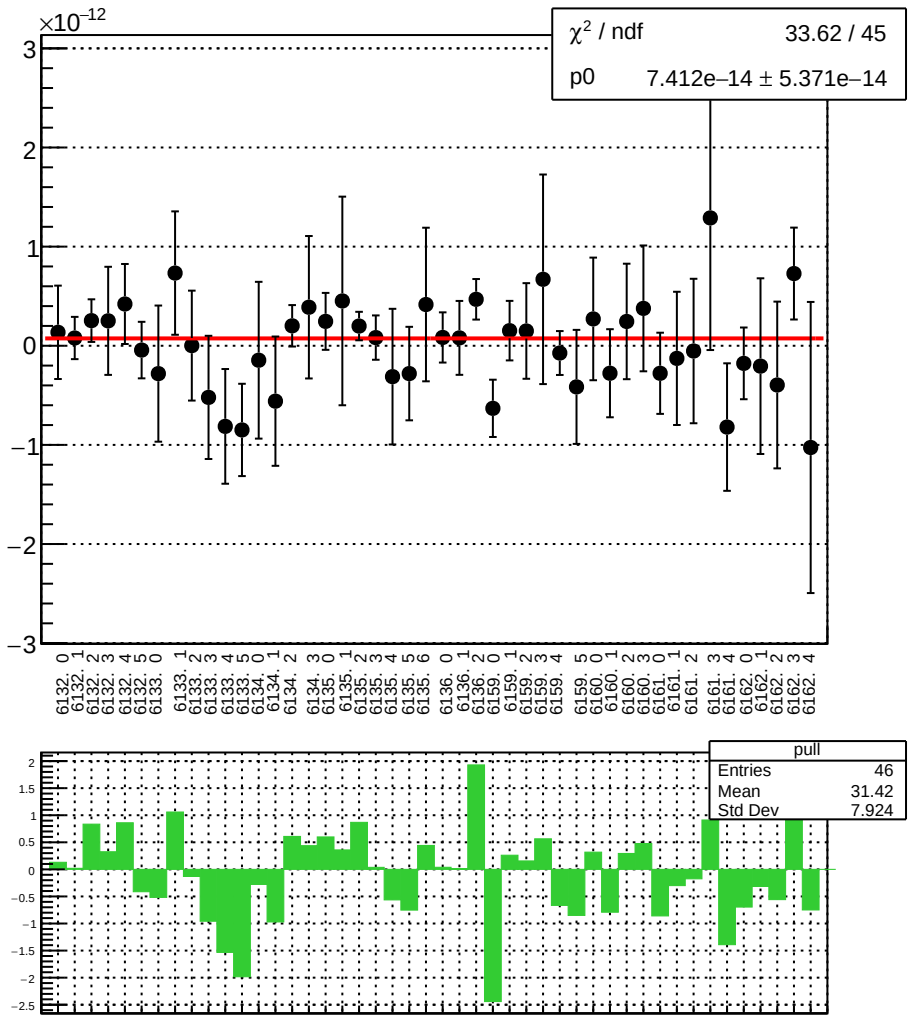

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.589e+04 / 45
p0 0.003096 ± 3.414e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

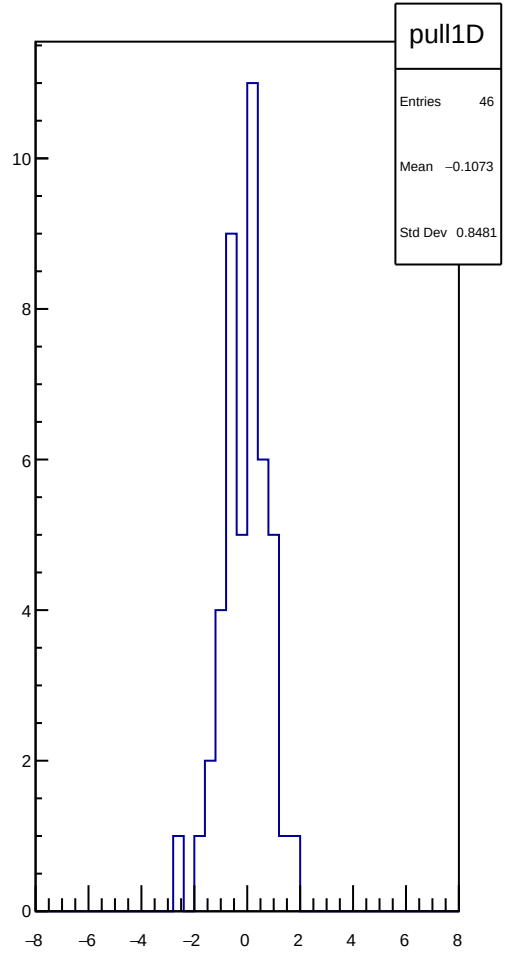

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 58.08 / 45
p0 0.03125 ± 0.05321
pull
Entries 46
Mean 61.22
Std Dev 0
pull1D
Entries 46
Mean 0.02033
Std Dev 1.123

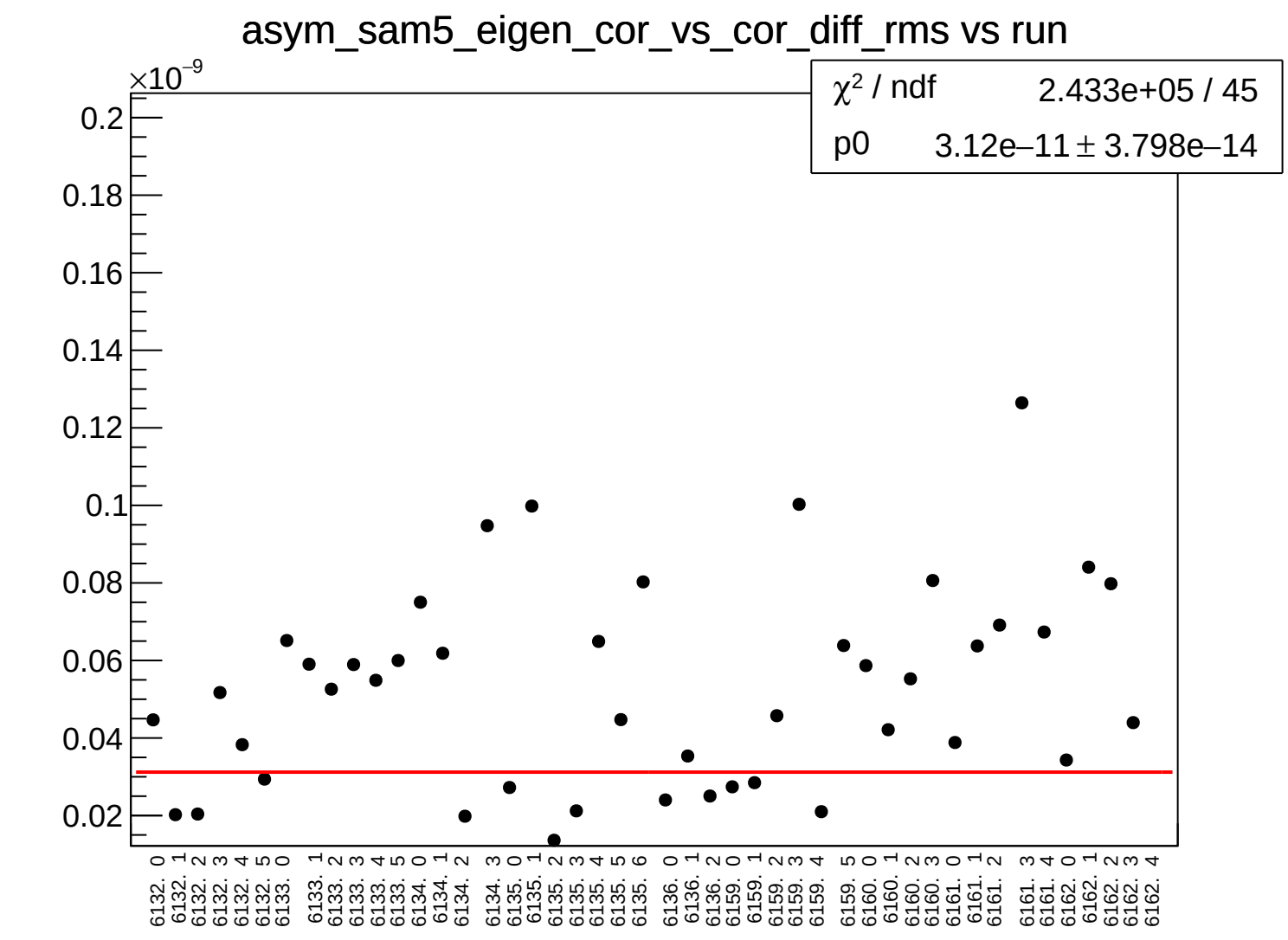

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.61e+04 / 45
p0 35.54 ± 0.03762
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

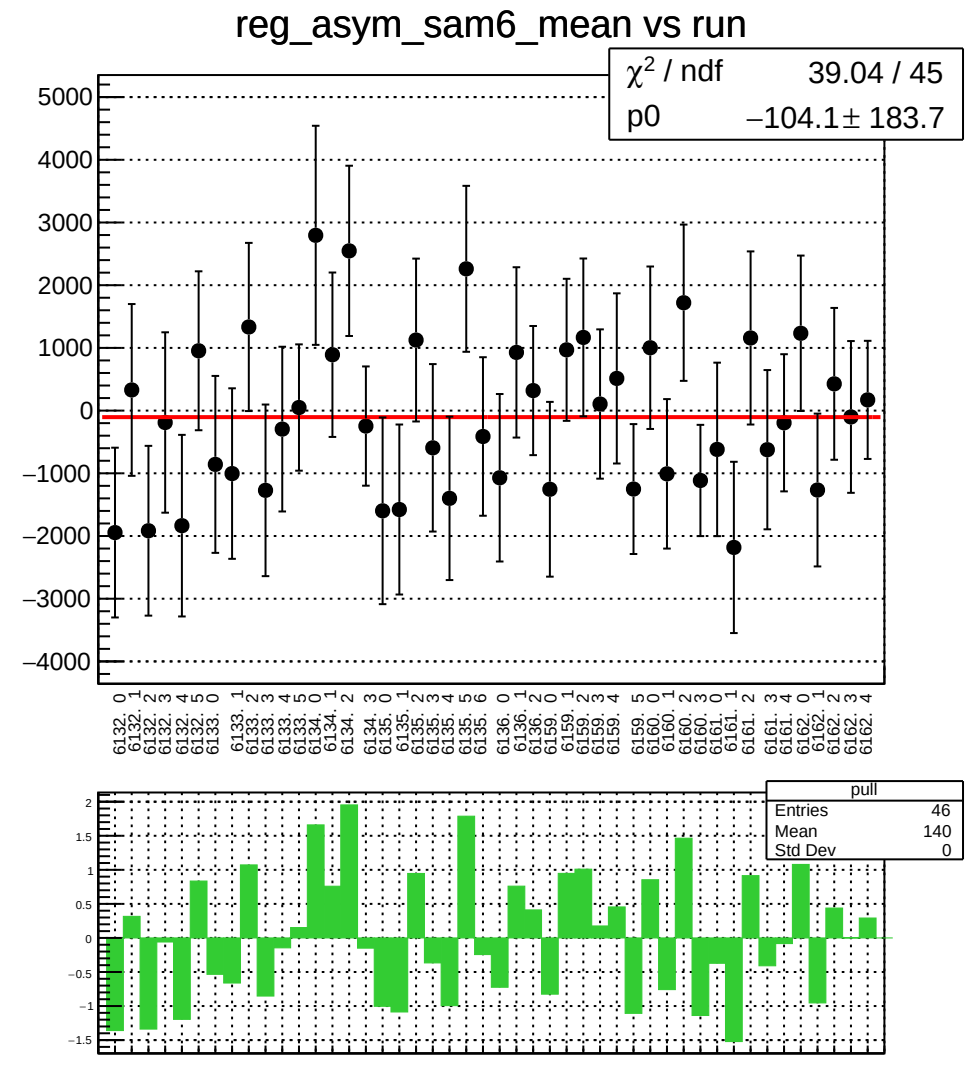

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 58.08 / 45
p0 0.03125 ± 0.05321
pull
Entries 46
Mean 61.22
Std Dev 0
pull1D
Entries 46
Mean 0.02033
Std Dev 1.123

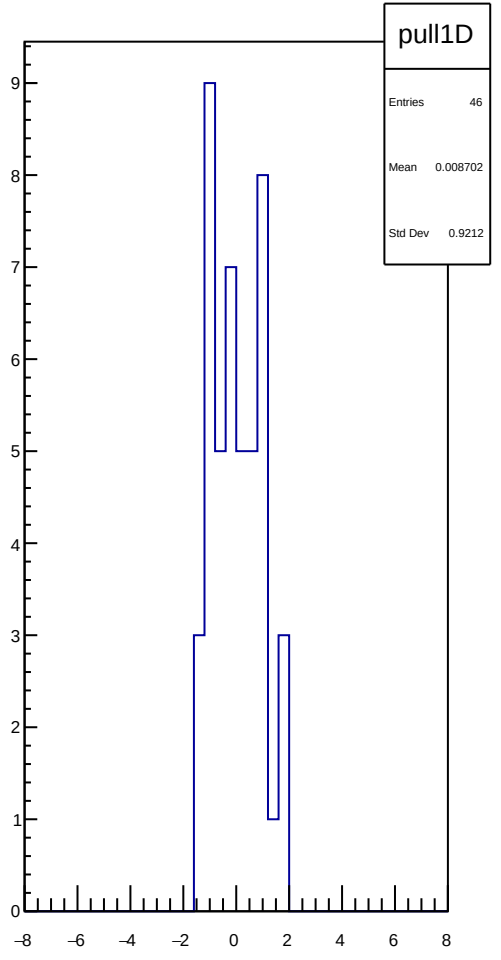

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.61e+04 / 45
p0 35.54 ± 0.03762
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

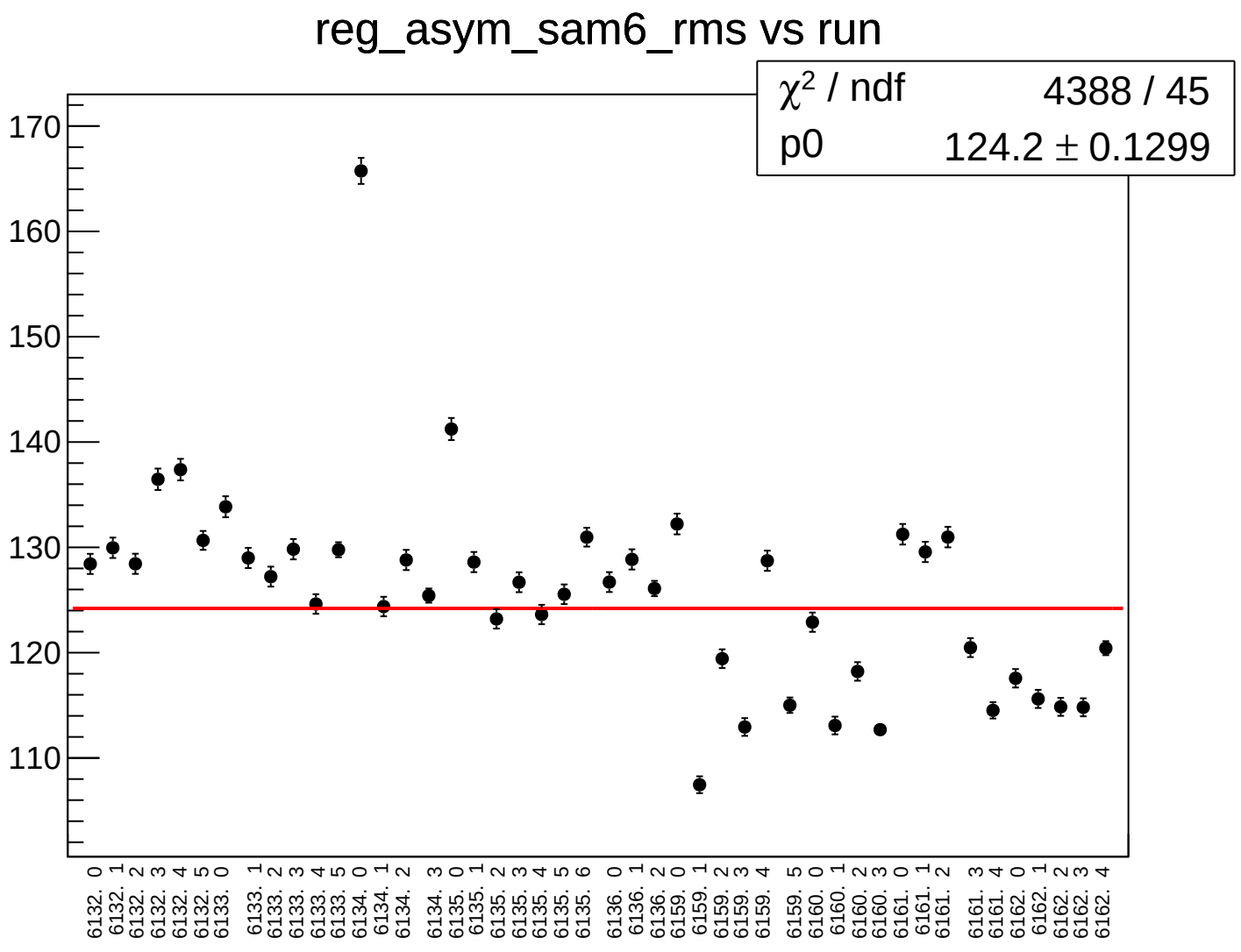

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.62 / 45
p0 7.412e−14 ± 5.371e−14
pull
Entries 46
Mean 31.42
Std Dev 7.924

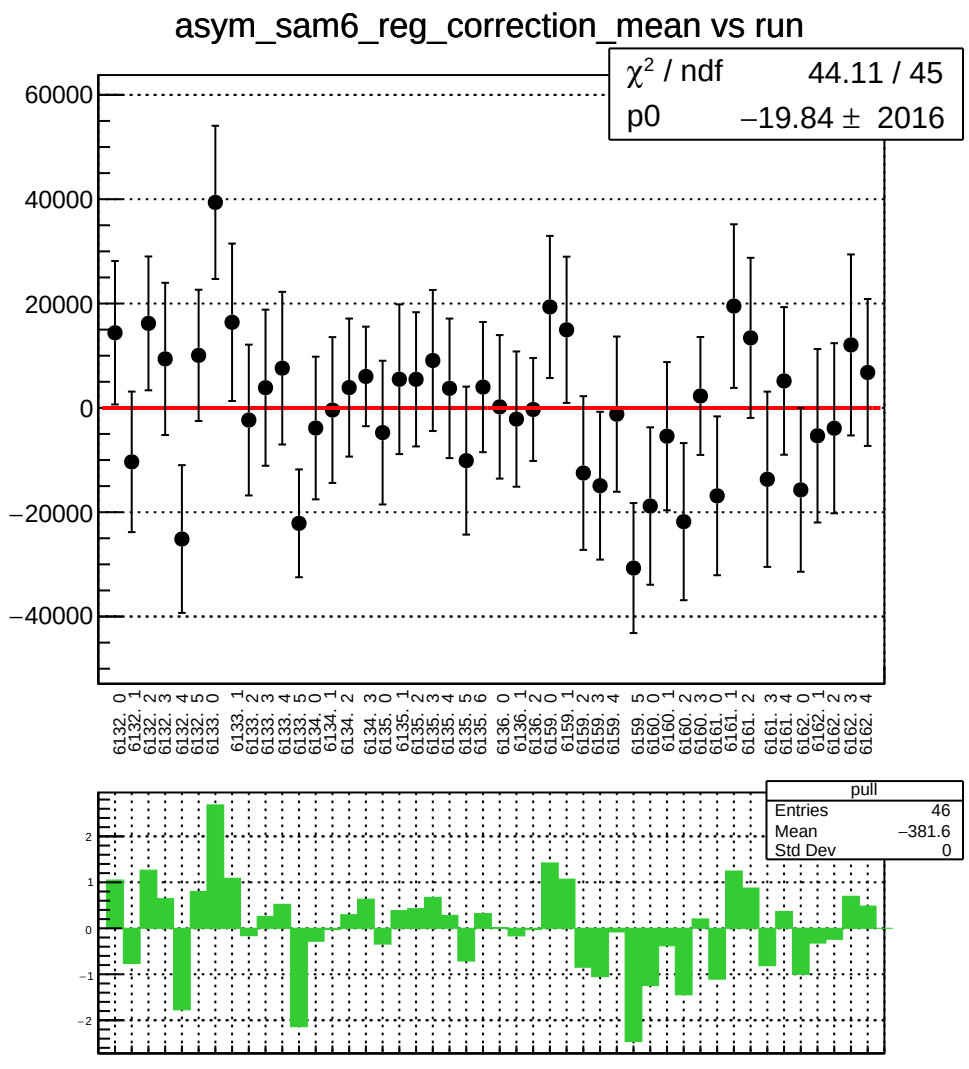

pull1D
Entries 46
Mean −0.1073
Std Dev 0.8481

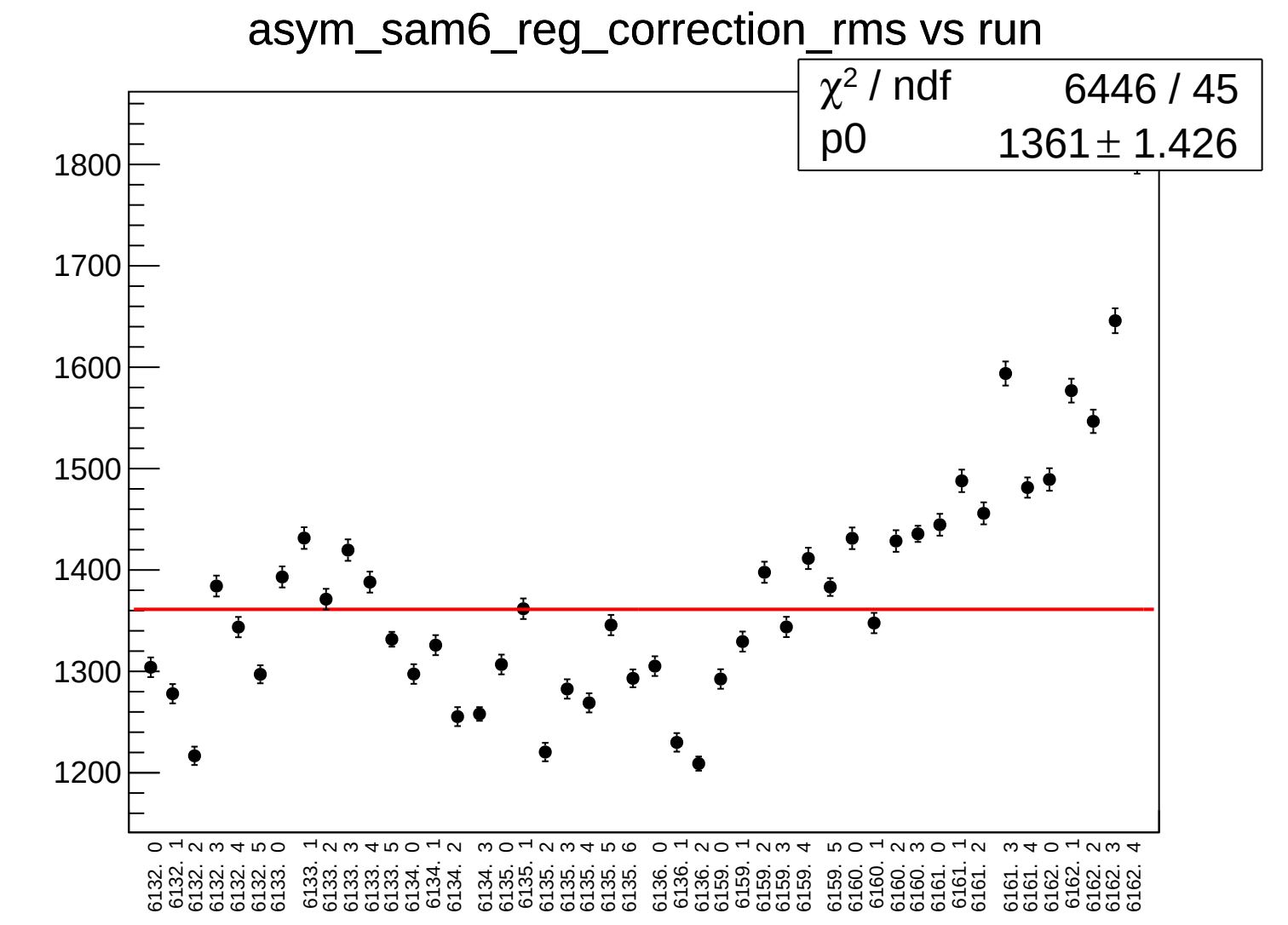

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.433e+05 / 45
p0 3.12e−11 ± 3.798e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_sam6_mean vs run
χ² / ndf 39.04 / 45
p0 −104.1± 183.7
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 140
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 46
Mean 0.008702
Std Dev 0.9212
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam6_rms vs run
χ² / ndf 4388 / 45
p0 124.2 ± 0.1299
170
160
150
140
130
120
110
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam6_reg_correction_mean vs run
χ² / ndf 44.11 / 45
p0 −19.84 ± 2016
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −381.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.006805
Std Dev 0.9792
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_reg_correction_rms vs run
χ² / ndf 6446 / 45
p0 1361 ± 1.426
1800
1700
1600
1500
1400
1300
1200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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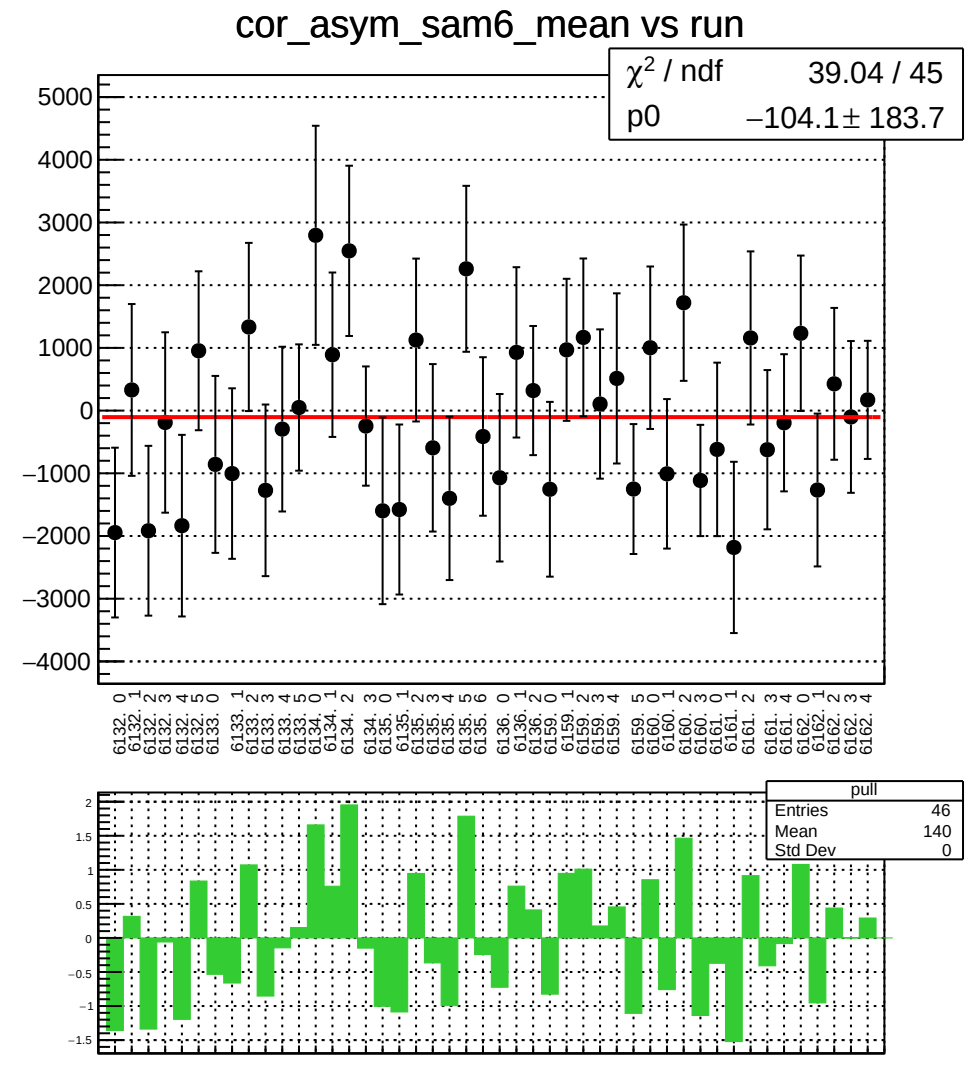
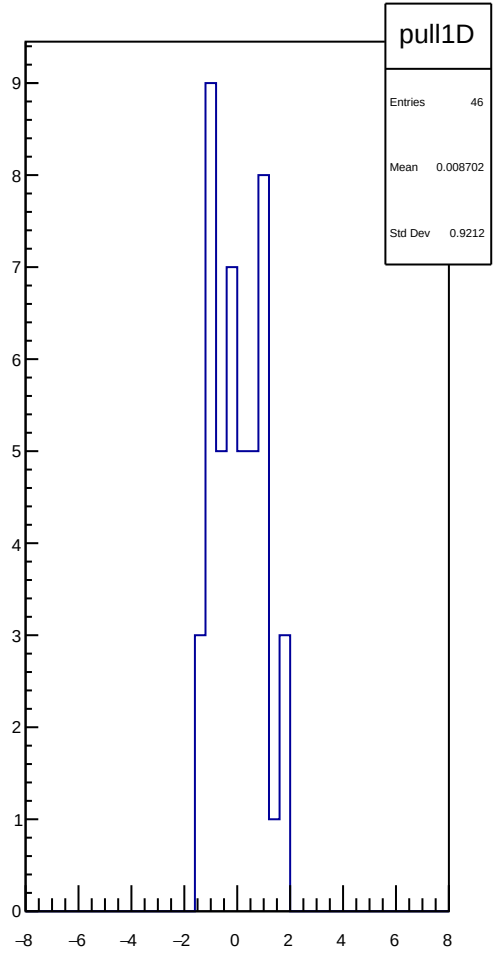
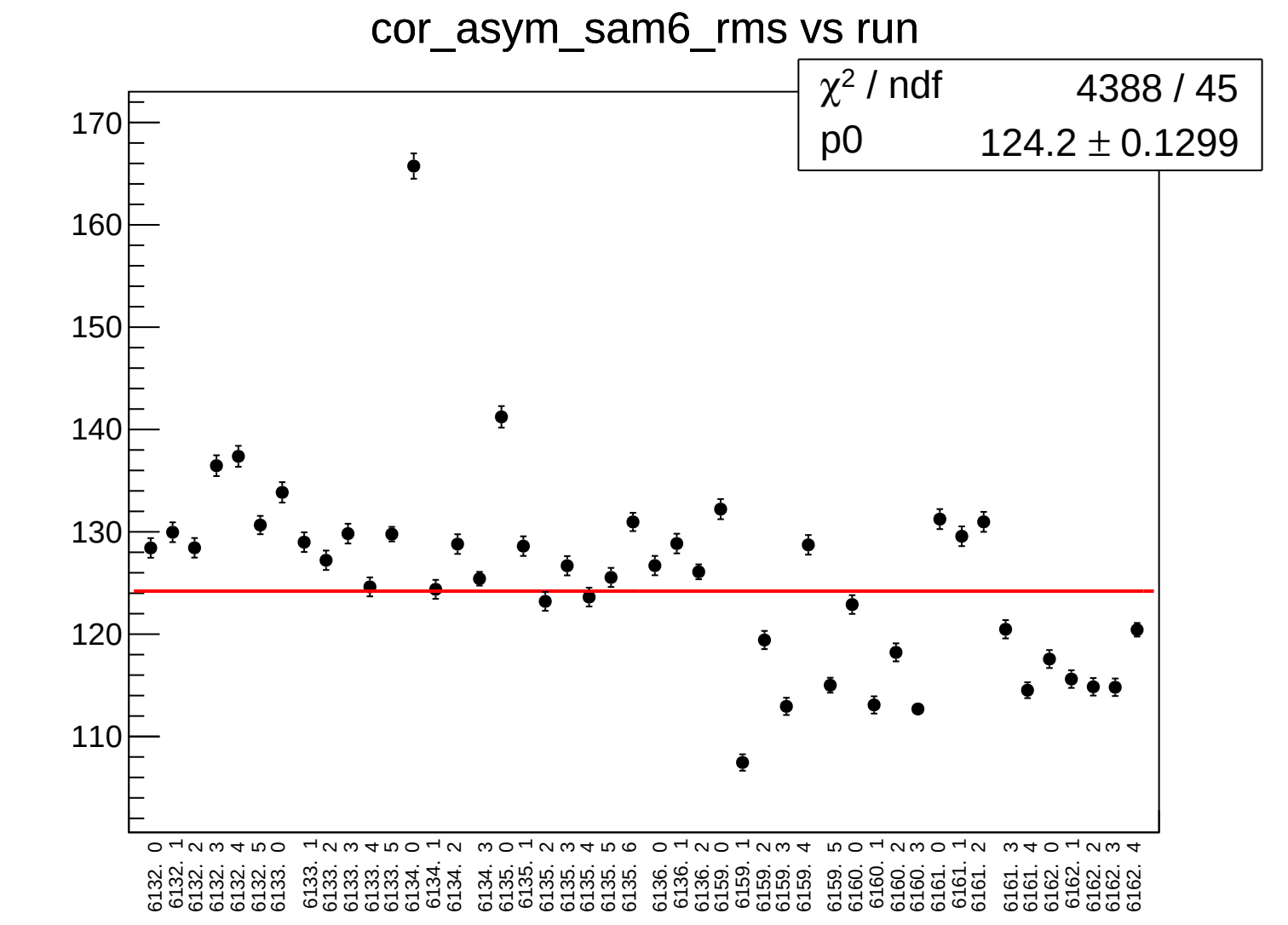
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_sam6_mean vs run
χ² / ndf 39.04 / 45
p0 −104.1± 183.7
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 140
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 46
Mean 0.008702
Std Dev 0.9212
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam6_rms vs run
χ² / ndf 4388 / 45
p0 124.2 ± 0.1299
170
160
150
140
130
120
110
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6135. 1
6135. 2
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6135. 6
6136. 0
6136. 1
6136. 2
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
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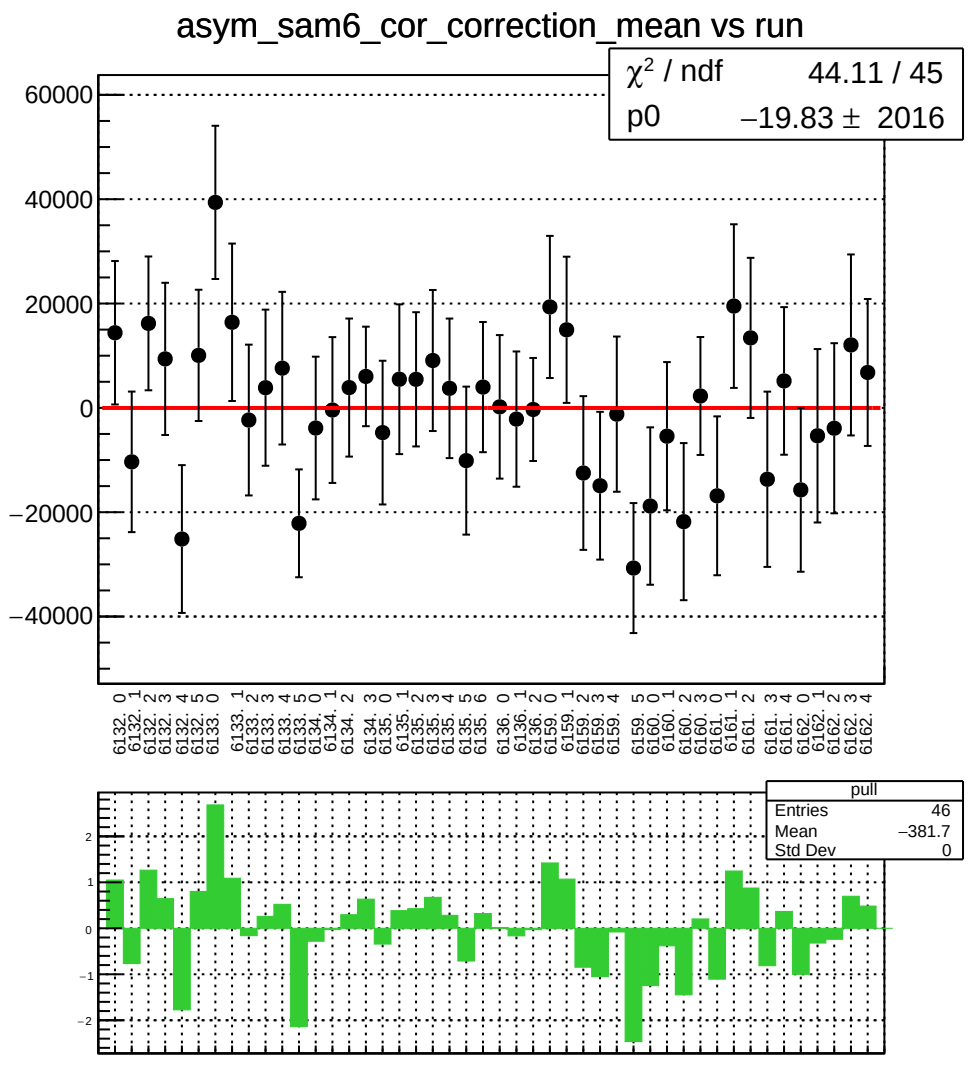
6162. 4


asym_sam6_cor_correction_mean vs run
χ² / ndf 44.11 / 45
p0 −19.83 ± 2016
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
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6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
6159. 0
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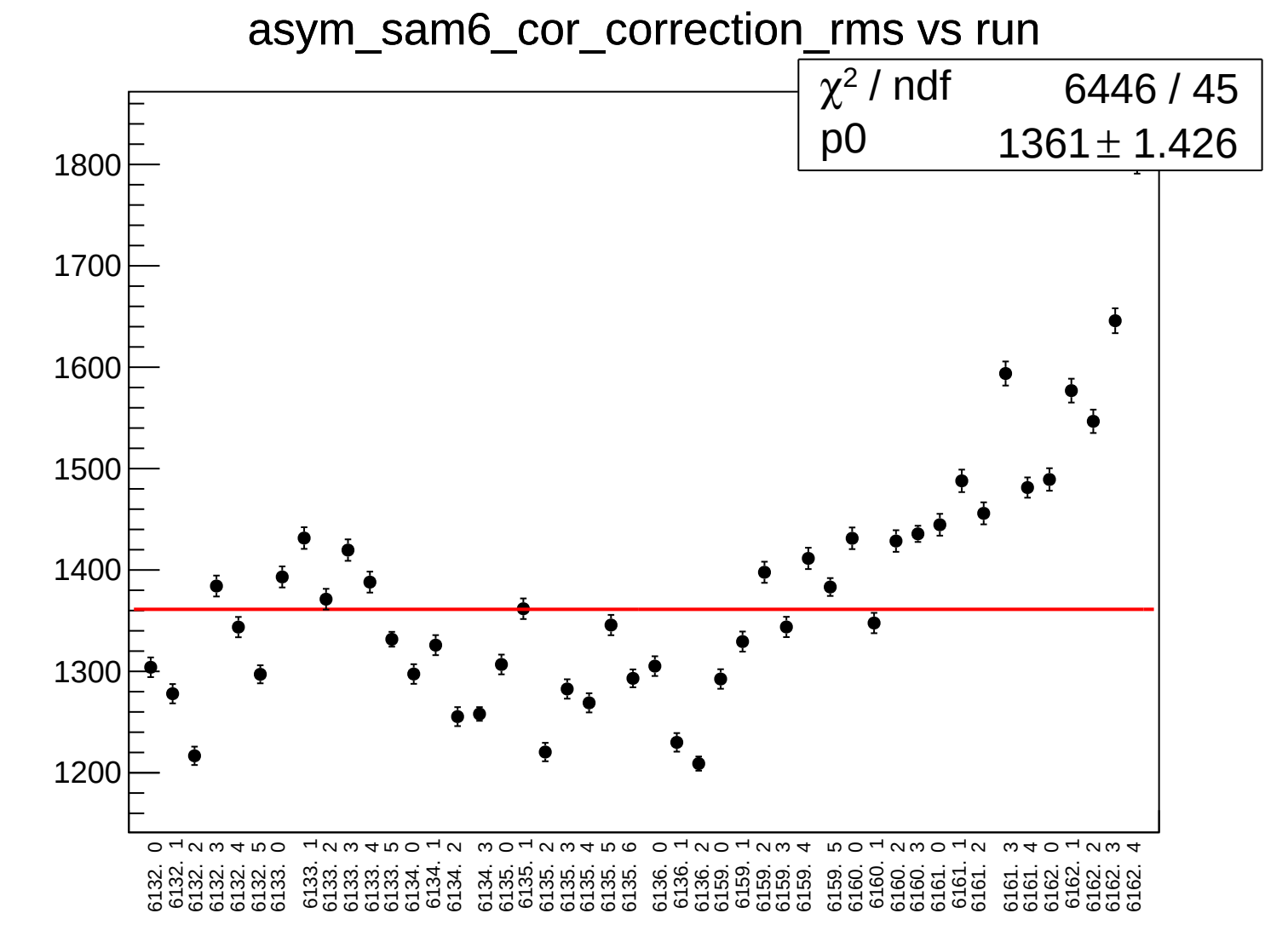
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −381.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.006804
Std Dev 0.9792
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_cor_correction_rms vs run
χ² / ndf 6446 / 45
p0 1361 ± 1.426
1800
1700
1600
1500
1400
1300
1200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
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6135. 3
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6159. 1
6159. 2
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6160. 0
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6160. 2
6160. 3
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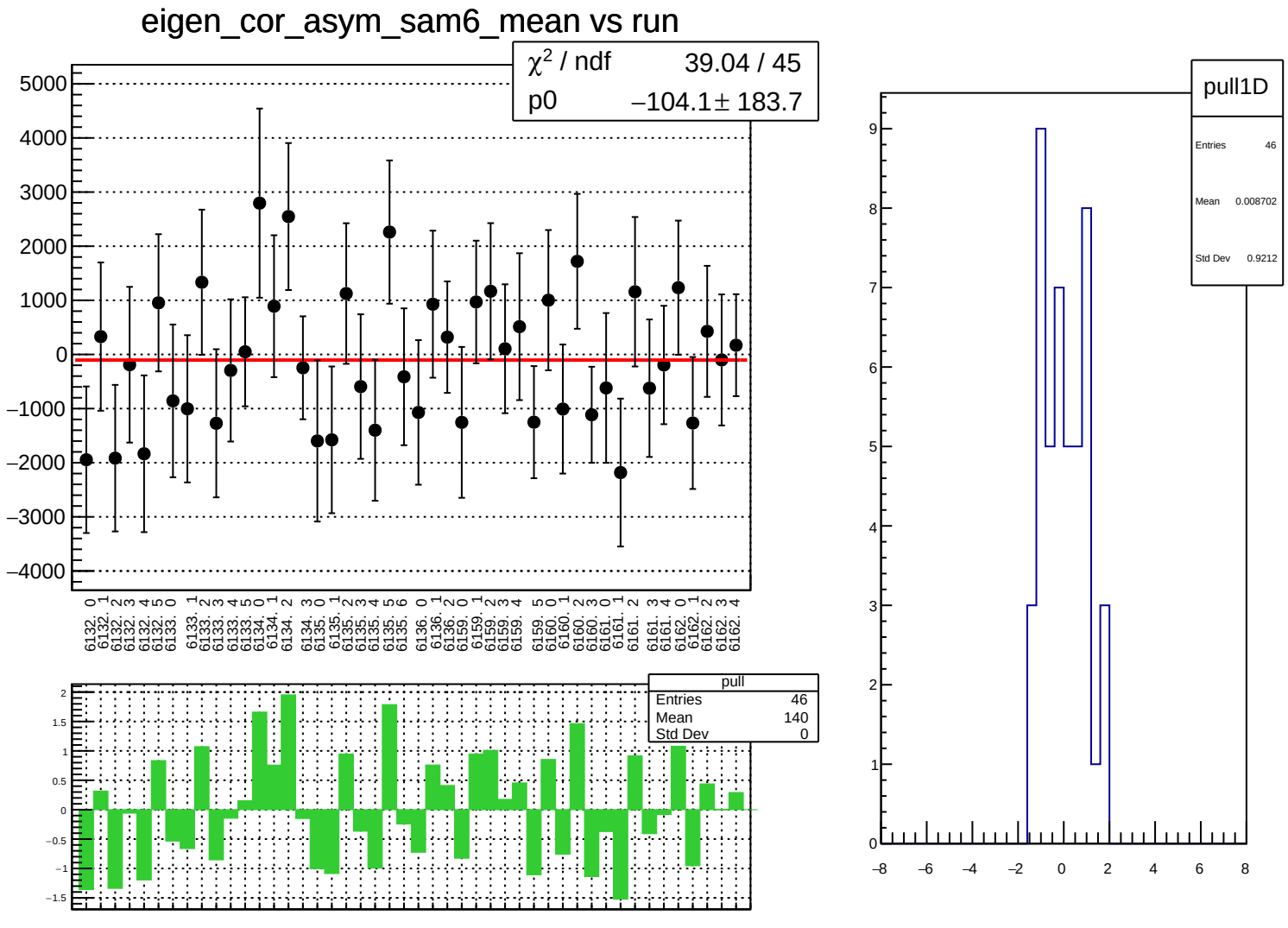
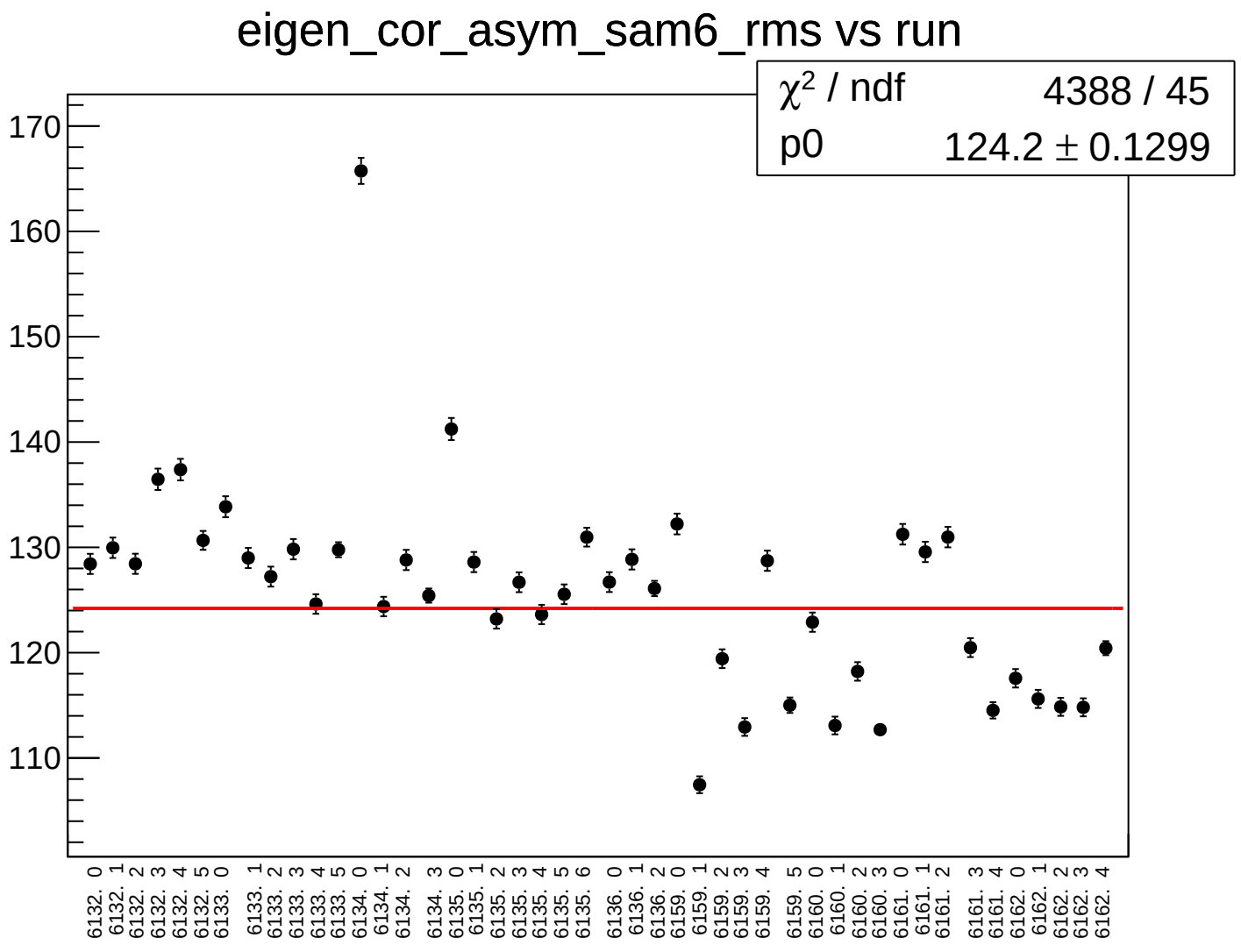
6162. 4


eigen_cor_asym_sam6_mean vs run
χ² / ndf 39.04 / 45
p0 −104.1± 183.7
pull
Entries 46
Mean 140
Std Dev 0
pull1D
Entries 46
Mean 0.008702
Std Dev 0.9212


eigen_cor_asym_sam6_rms vs run
χ² / ndf 4388 / 45
p0 124.2 ± 0.1299
170
160
150
140
130
120
110
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
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6134. 1
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6162. 0
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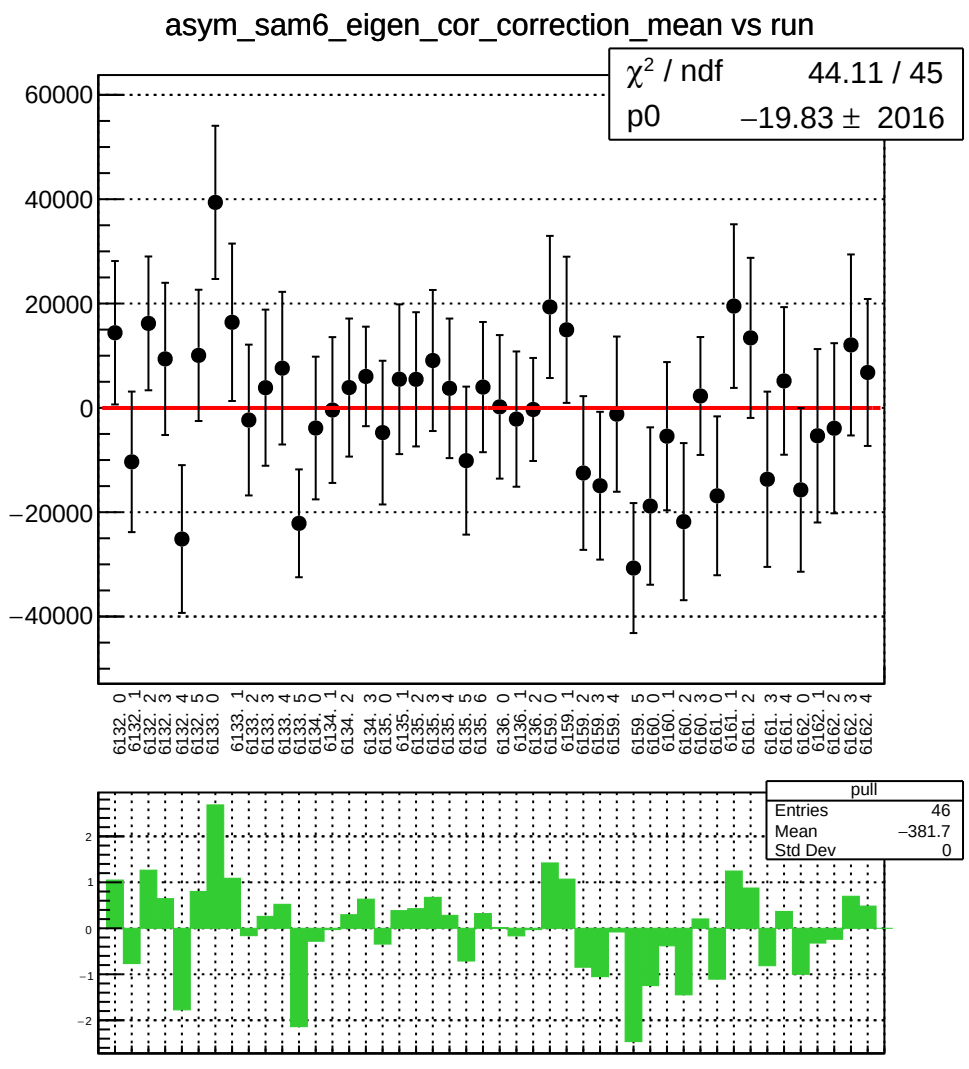
6162. 4


asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 44.11 / 45
p0 −19.83 ± 2016
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 2
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6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
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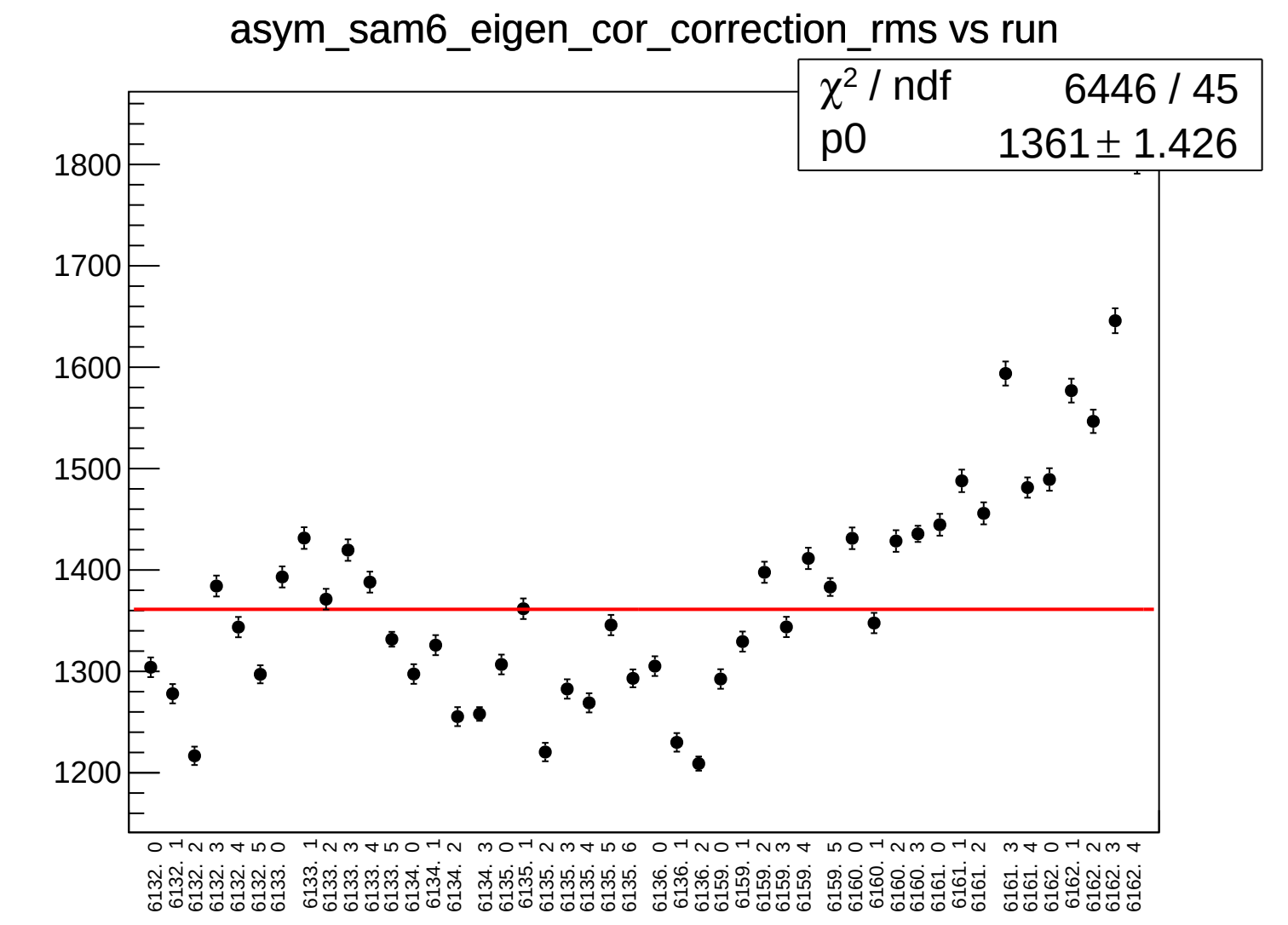
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −381.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.006804
Std Dev 0.9792
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 6446 / 45
p0 1361 ± 1.426
1800
1700
1600
1500
1400
1300
1200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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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
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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6162. 0
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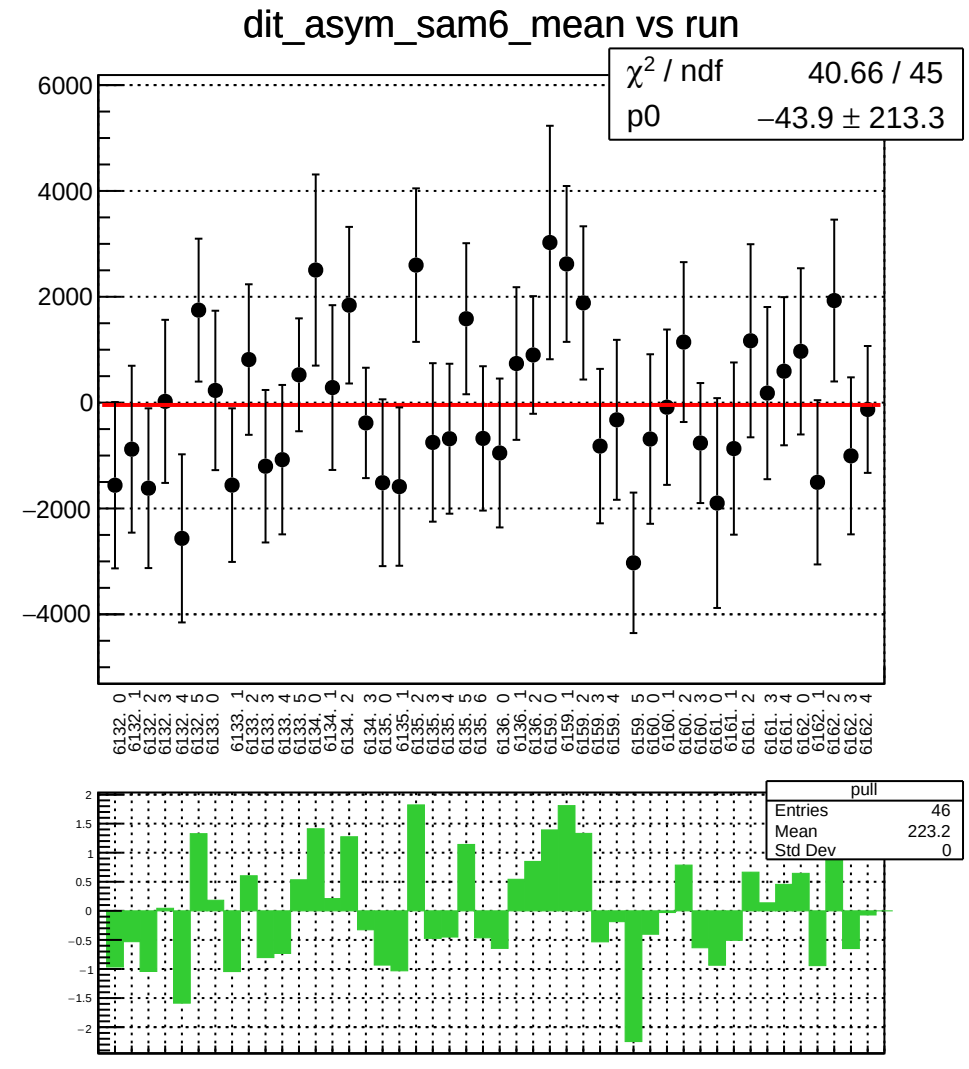
6162. 4


dit_asym_sam6_mean vs run
χ² / ndf 40.66 / 45
p0 −43.9 ± 213.3
6000
4000
2000
0
−2000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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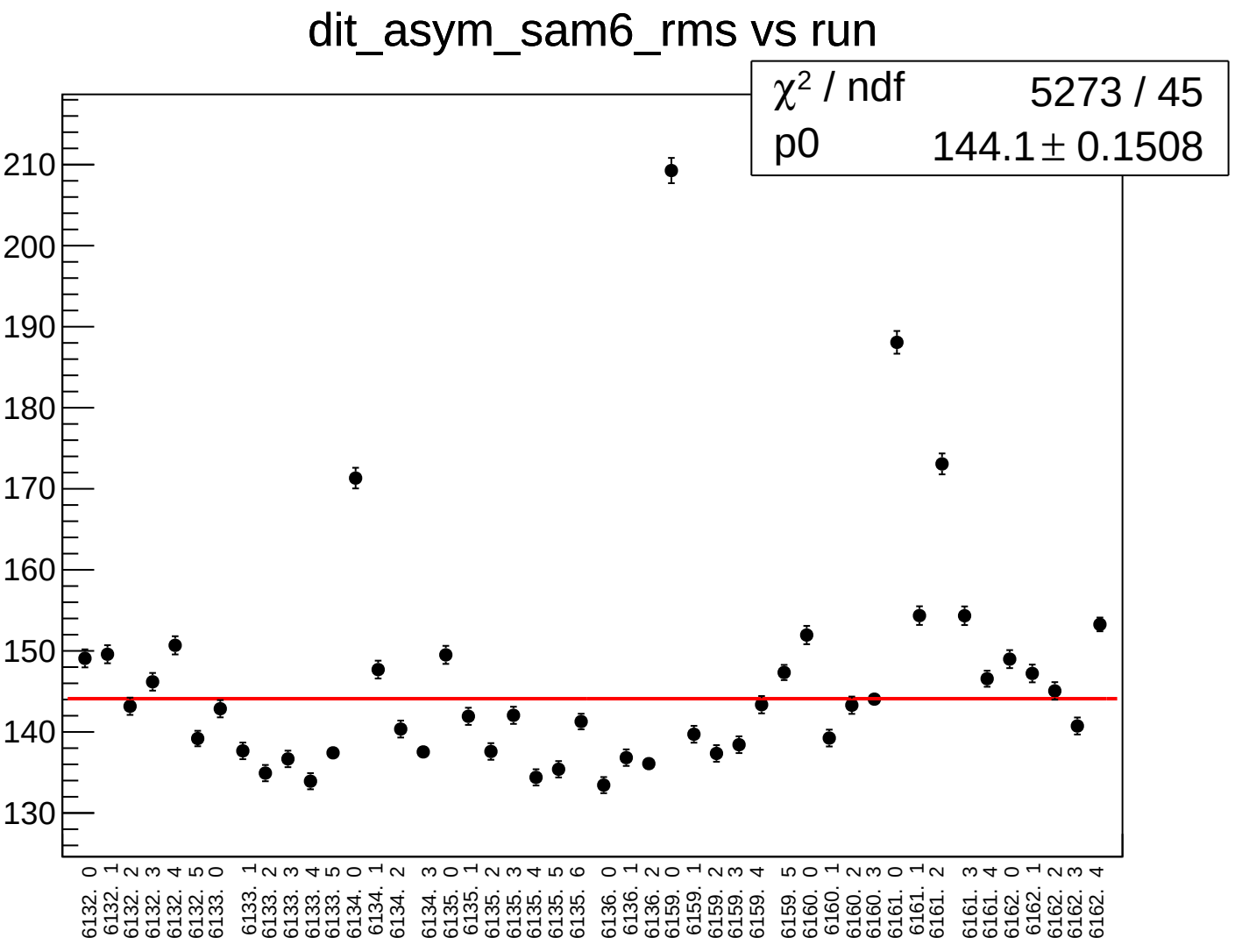
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 223.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.006375
Std Dev 0.9402
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam6_rms vs run
χ² / ndf 5273 / 45
p0 144.1 ± 0.1508
210
200
190
180
170
160
150
140
130
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
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6159. 3
6159. 4
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6160. 0
6160. 1
6160. 2
6160. 3
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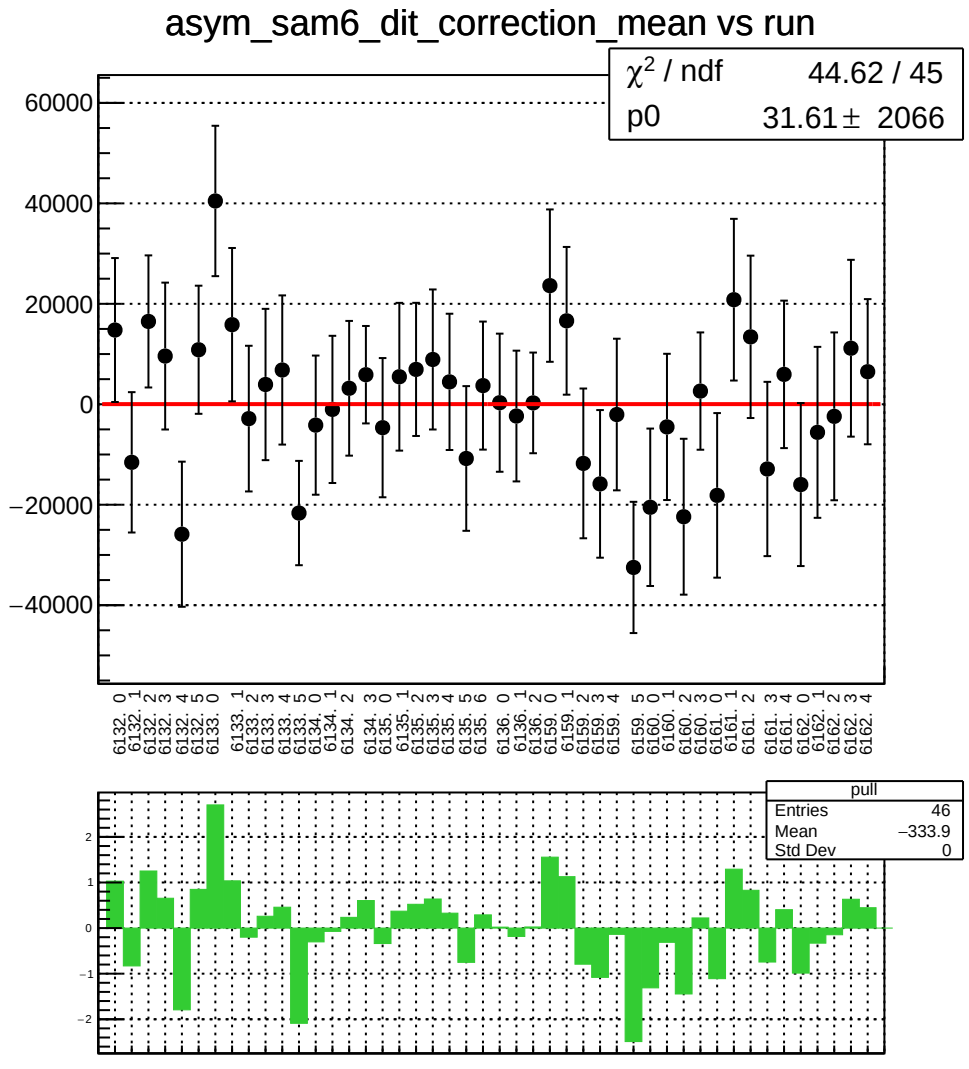
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam6_dit_correction_mean vs run
χ² / ndf 44.62 / 45
p0 31.61 ± 2066
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6134. 0
6134. 1
6134. 2
6134. 3
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6135. 2
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6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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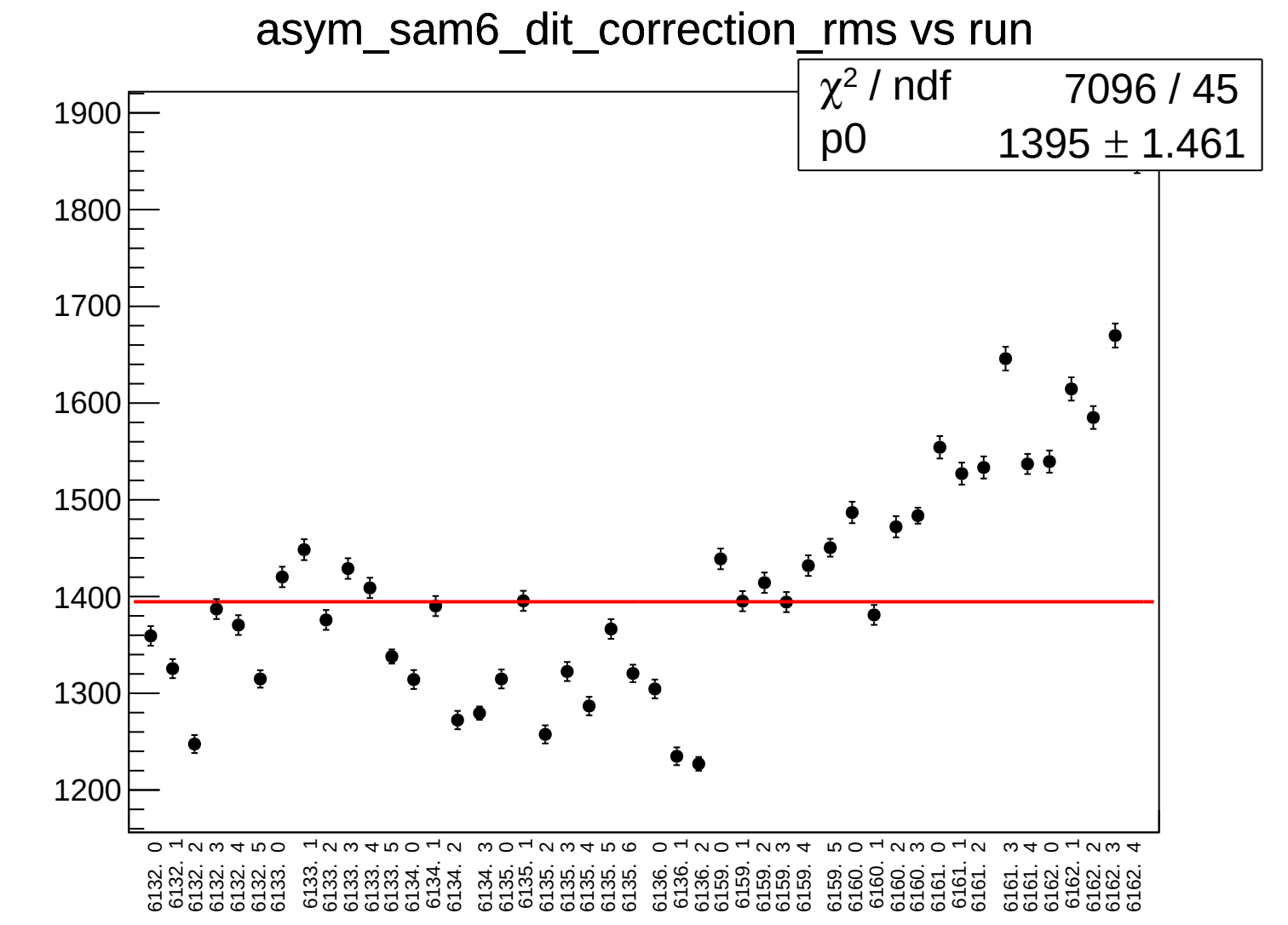
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −333.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.007356
Std Dev 0.9849
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_dit_correction_rms vs run
χ² / ndf 7096 / 45
p0 1395 ± 1.461
1900
1800
1700
1600
1500
1400
1300
1200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
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6135. 6
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6136. 2
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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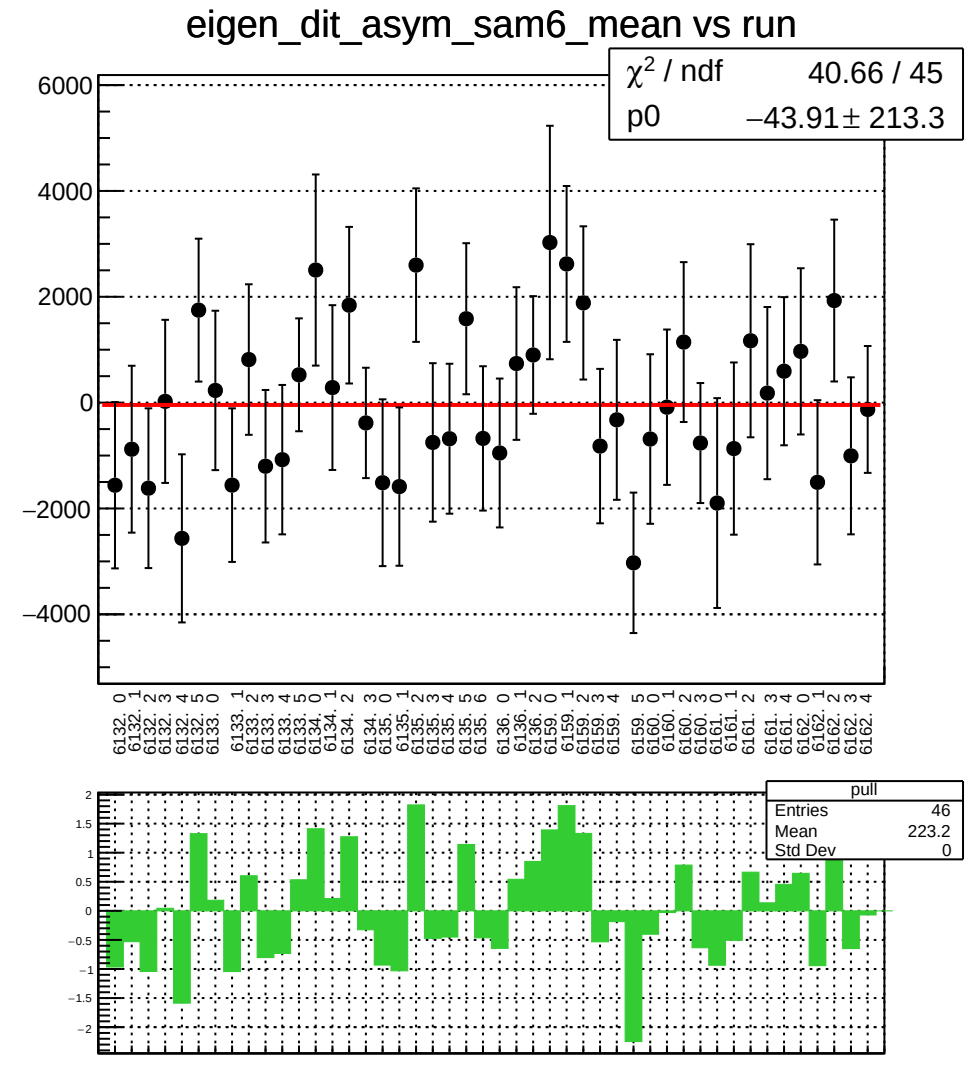
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_dit_asym_sam6_mean vs run
χ² / ndf 40.66 / 45
p0 −43.91 ± 213.3
6000
4000
2000
0
−2000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 5
6135. 6
6136. 0
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6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
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6159. 5
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6160. 2
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6161. 0
6161. 1
6161. 2
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6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 223.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.006375
Std Dev 0.9402
10
8
6
4
2
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−8
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−4
−2
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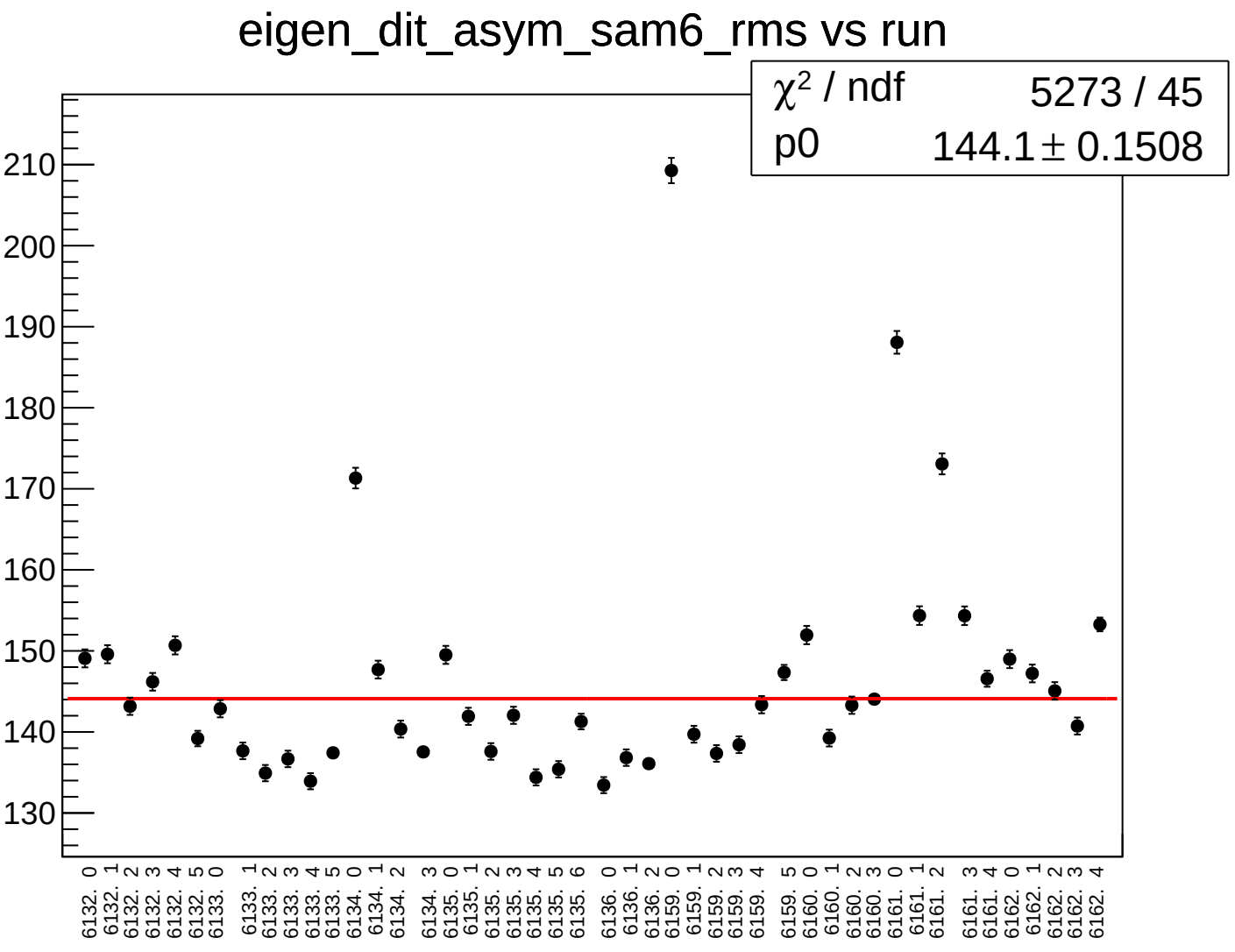
2
4
6
8


eigen_dit_asym_sam6_rms vs run
χ² / ndf 5273 / 45
p0 144.1 ± 0.1508
210
200
190
180
170
160
150
140
130
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
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6133. 4
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6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
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6160. 0
6160. 1
6160. 2
6160. 3
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6161. 4
6162. 0
6162. 1
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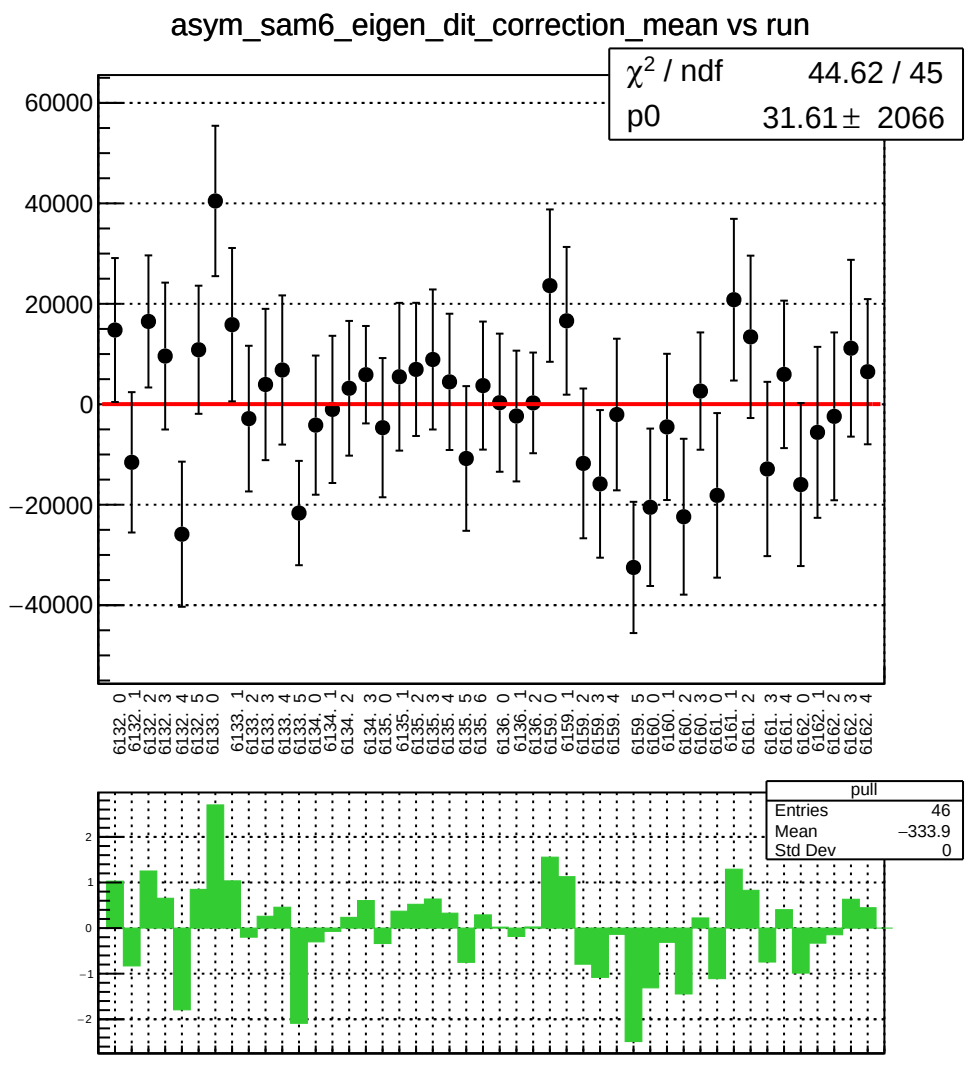
6162. 4


asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 44.62 / 45
p0 31.61 ± 2066
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6134. 2
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6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −333.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.007356
Std Dev 0.9849
9
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−8
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−4
−2
0
2
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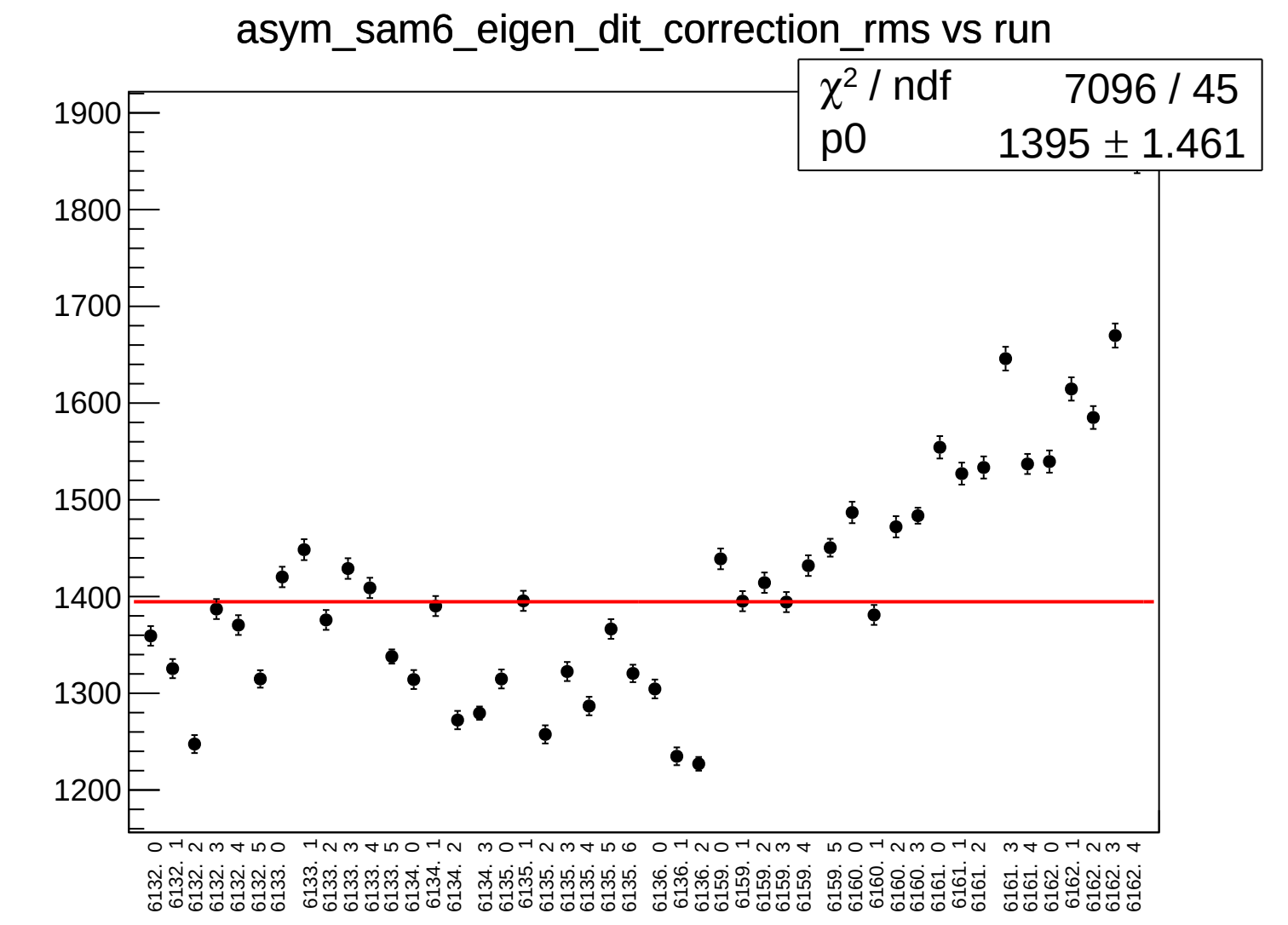
6
8


asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 7096 / 45
p0 1395 ± 1.461
1900
1800
1700
1600
1500
1400
1300
1200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 2
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6136. 1
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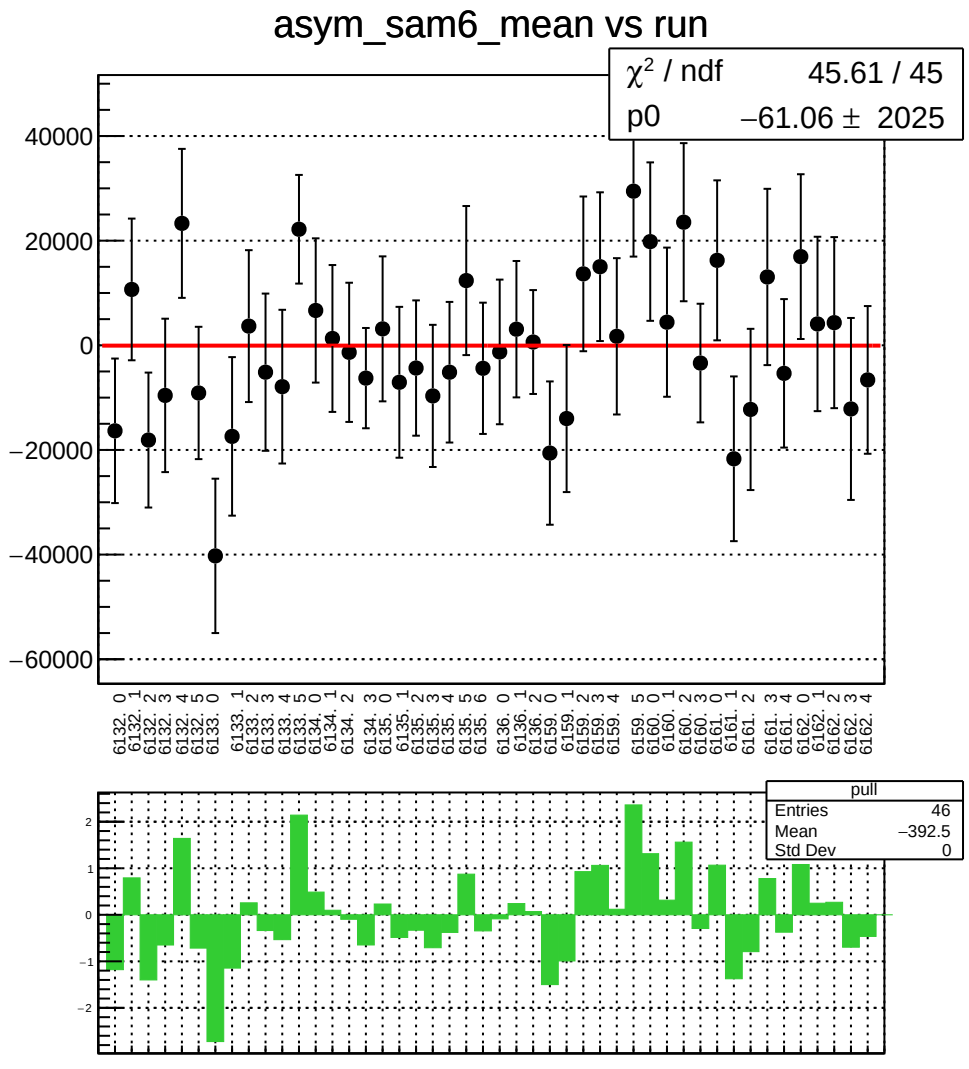
6162. 4


asym_sam6_mean vs run
χ² / ndf 45.61 / 45
p0 −61.06 ± 2025
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20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
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6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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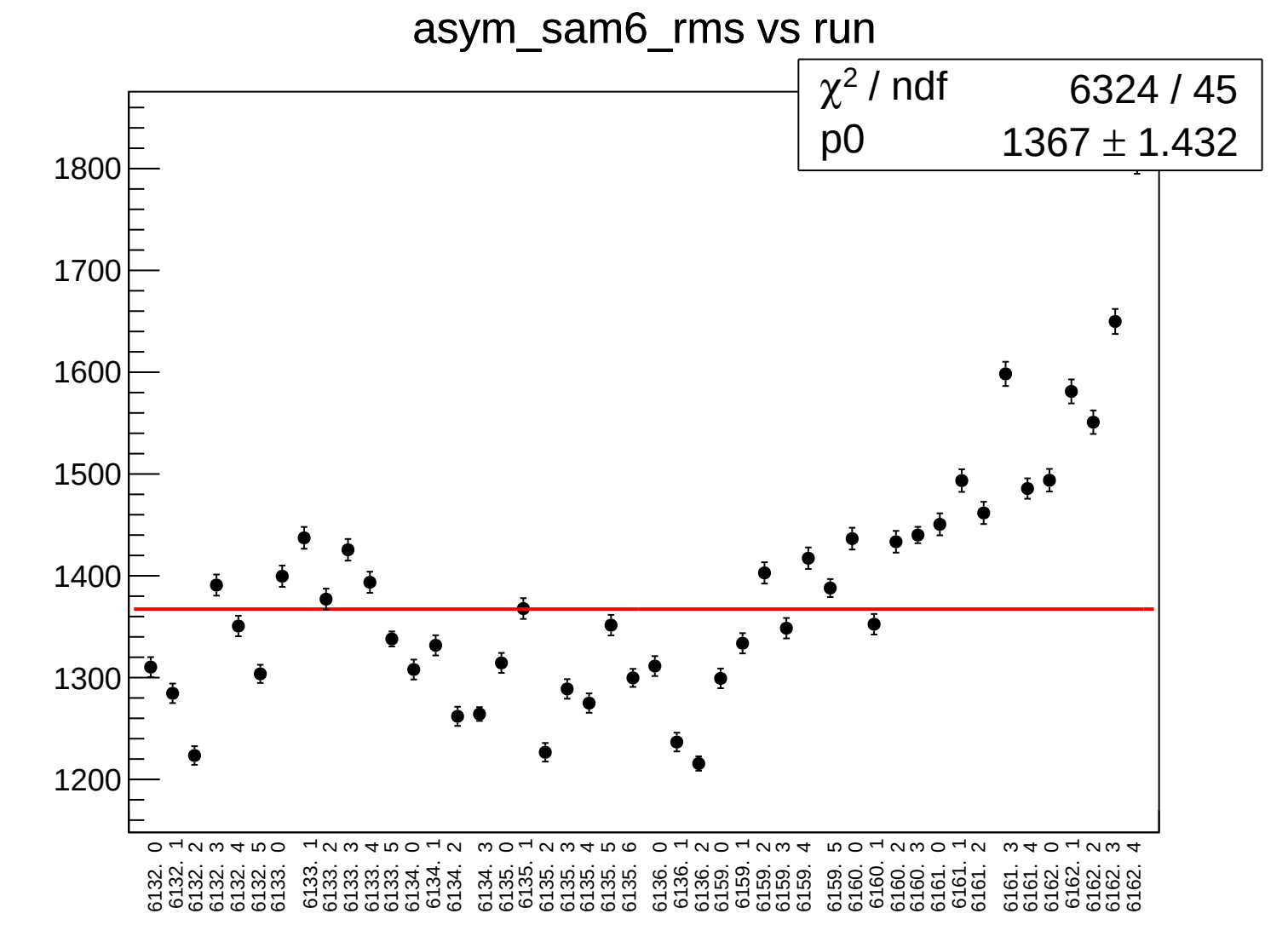
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −392.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.006822
Std Dev 0.9958
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_rms vs run
χ² / ndf 6324 / 45
p0 1367 ± 1.432
1800
1700
1600
1500
1400
1300
1200
6132. 0
6132. 1
6132. 2
6132. 3
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6132. 5
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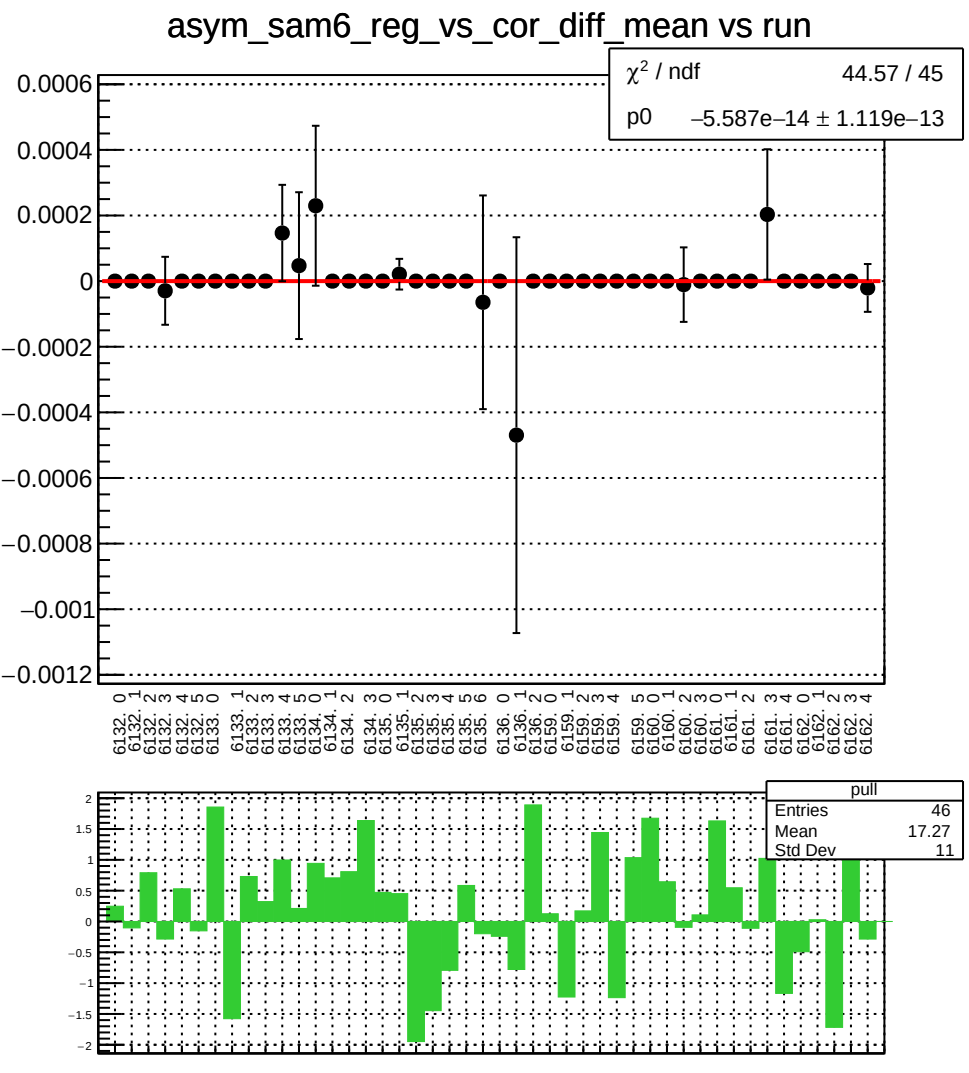
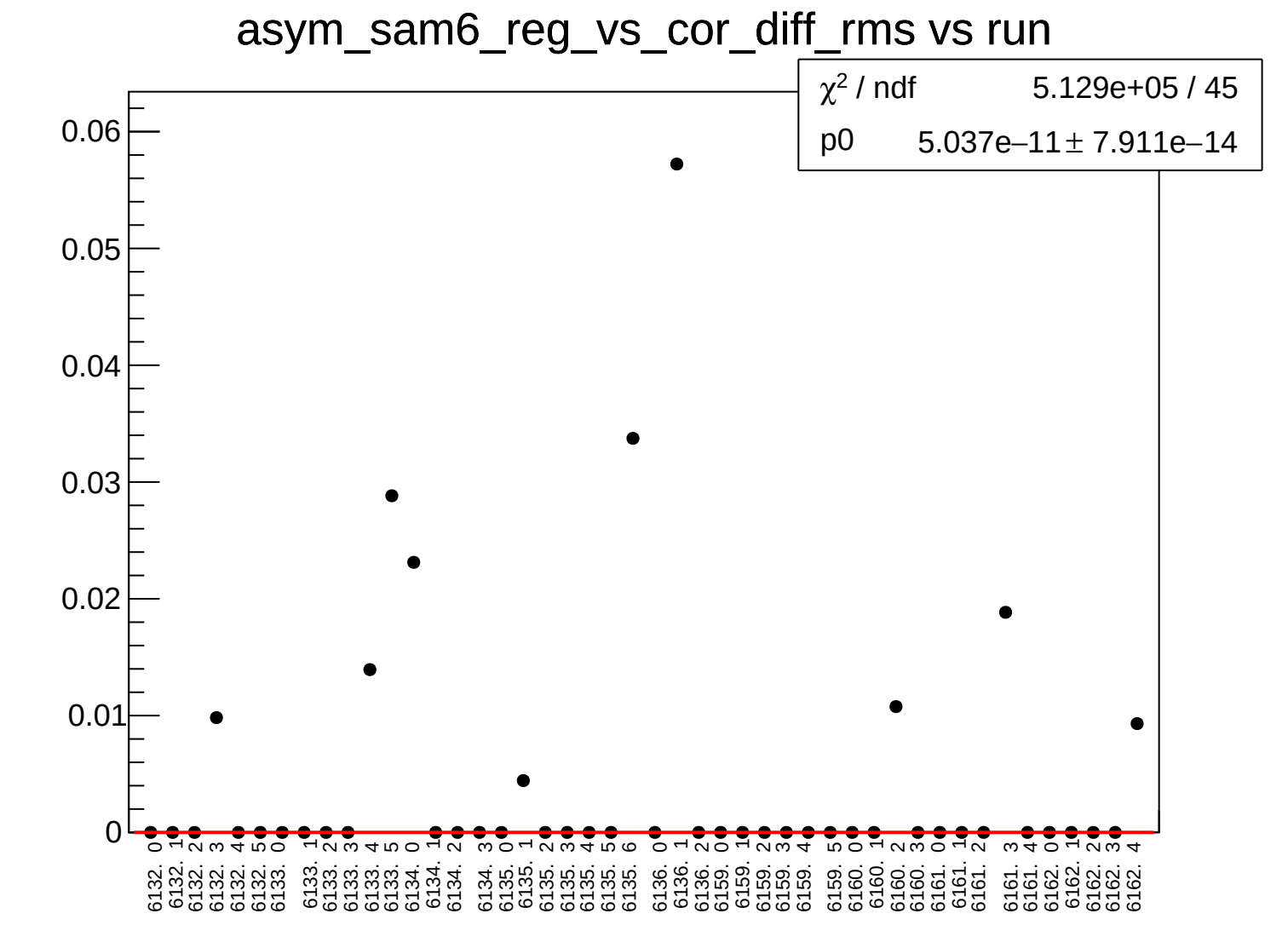
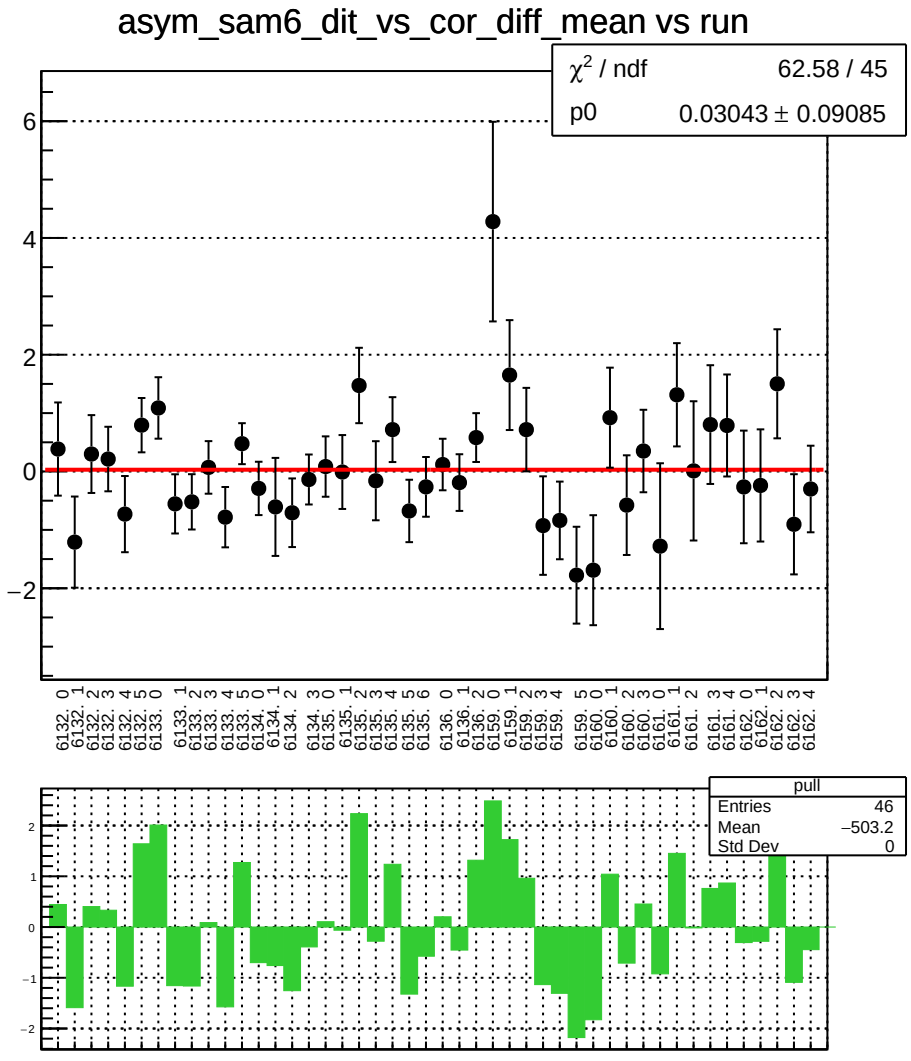
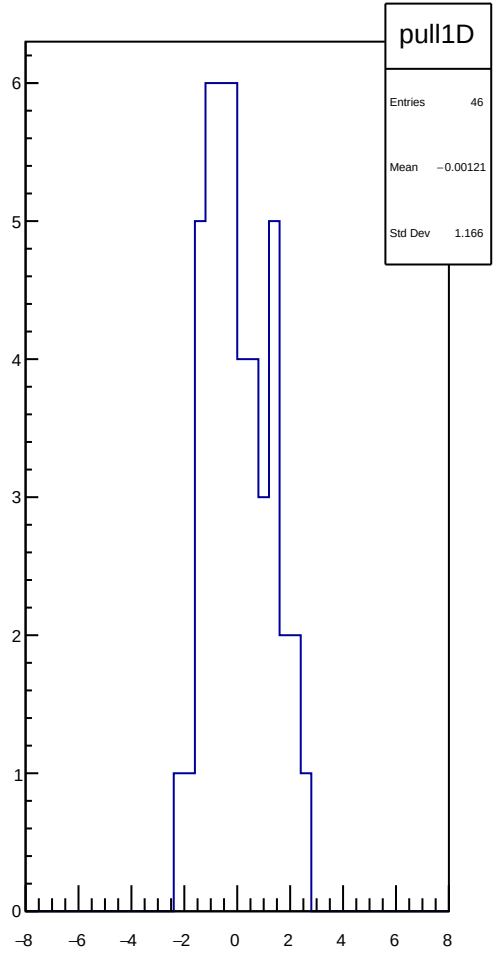
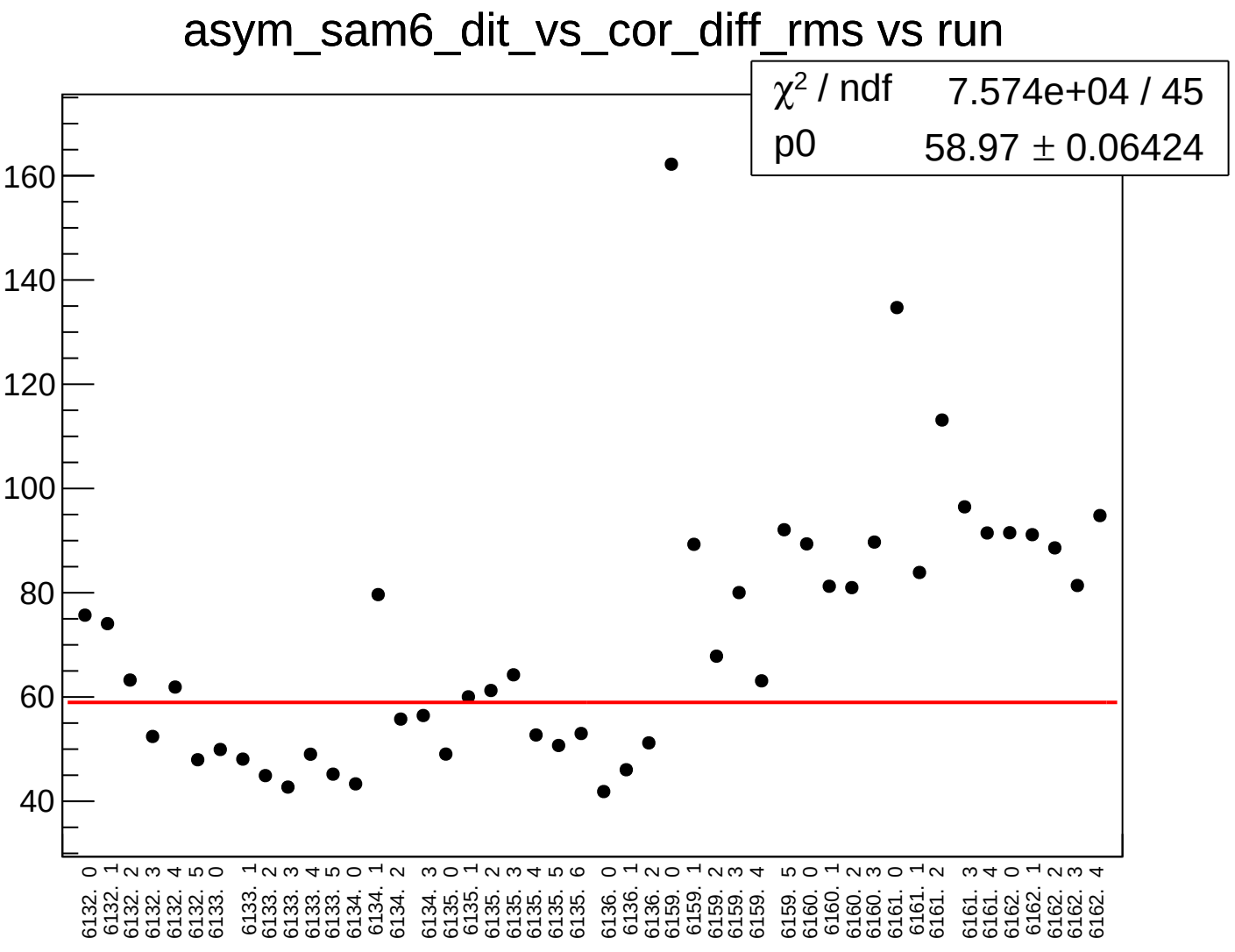
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

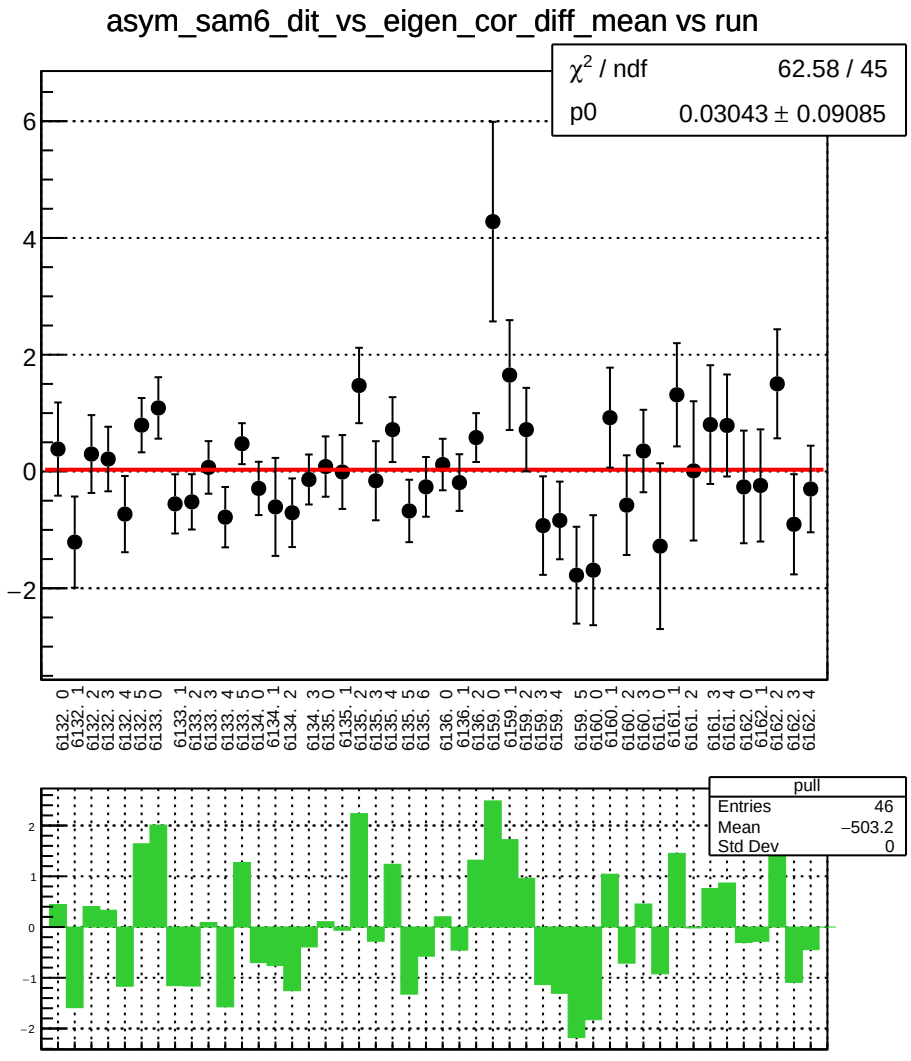

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 44.57 / 45
p0 −5.587e−14 ± 1.119e−13
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 17.27
Std Dev 11
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.1954
Std Dev 0.9648
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

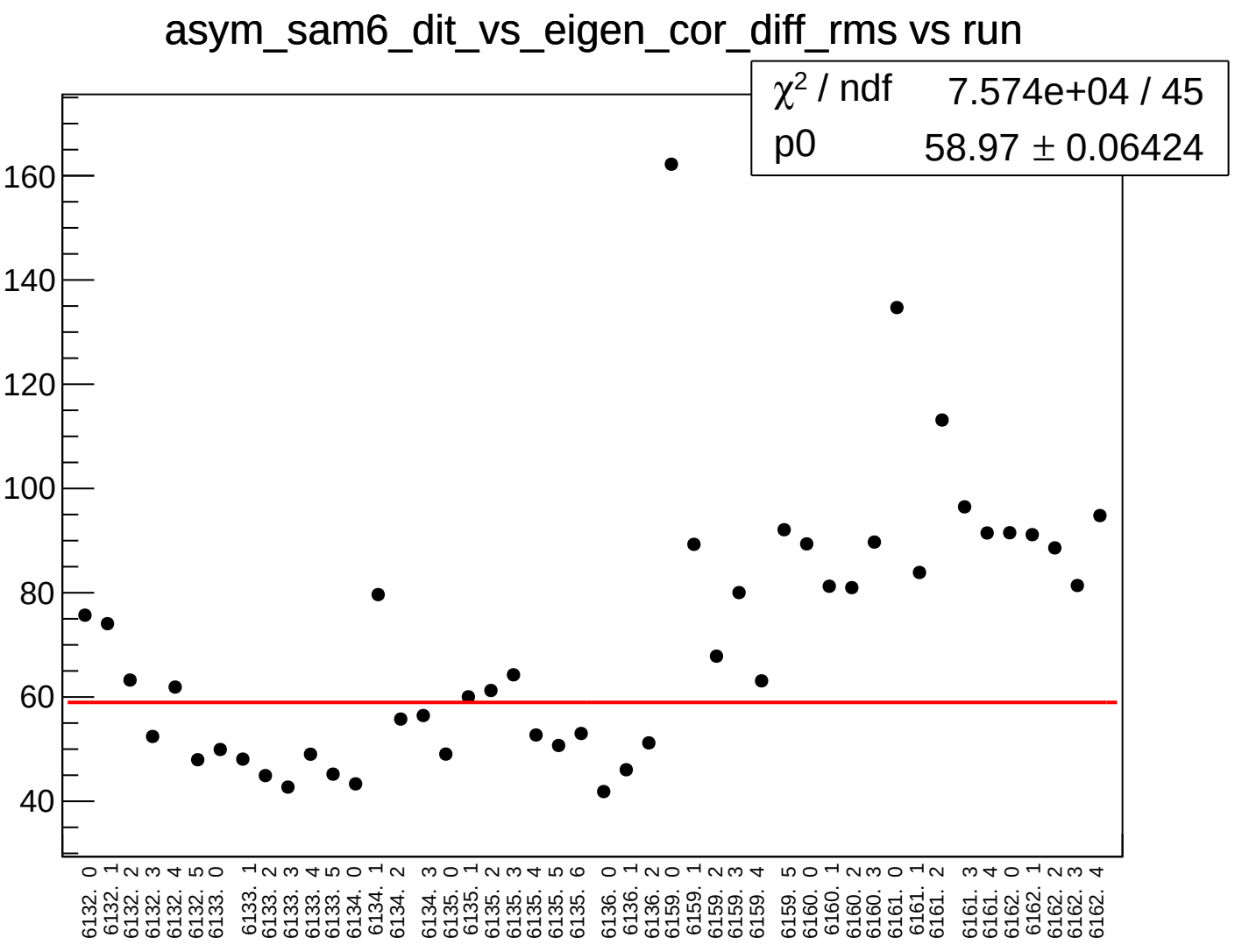

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 5.129e+05 / 45
p0 5.037e−11 ± 7.911e−14
0.06
0.05
0.04
0.03
0.02
0.01
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

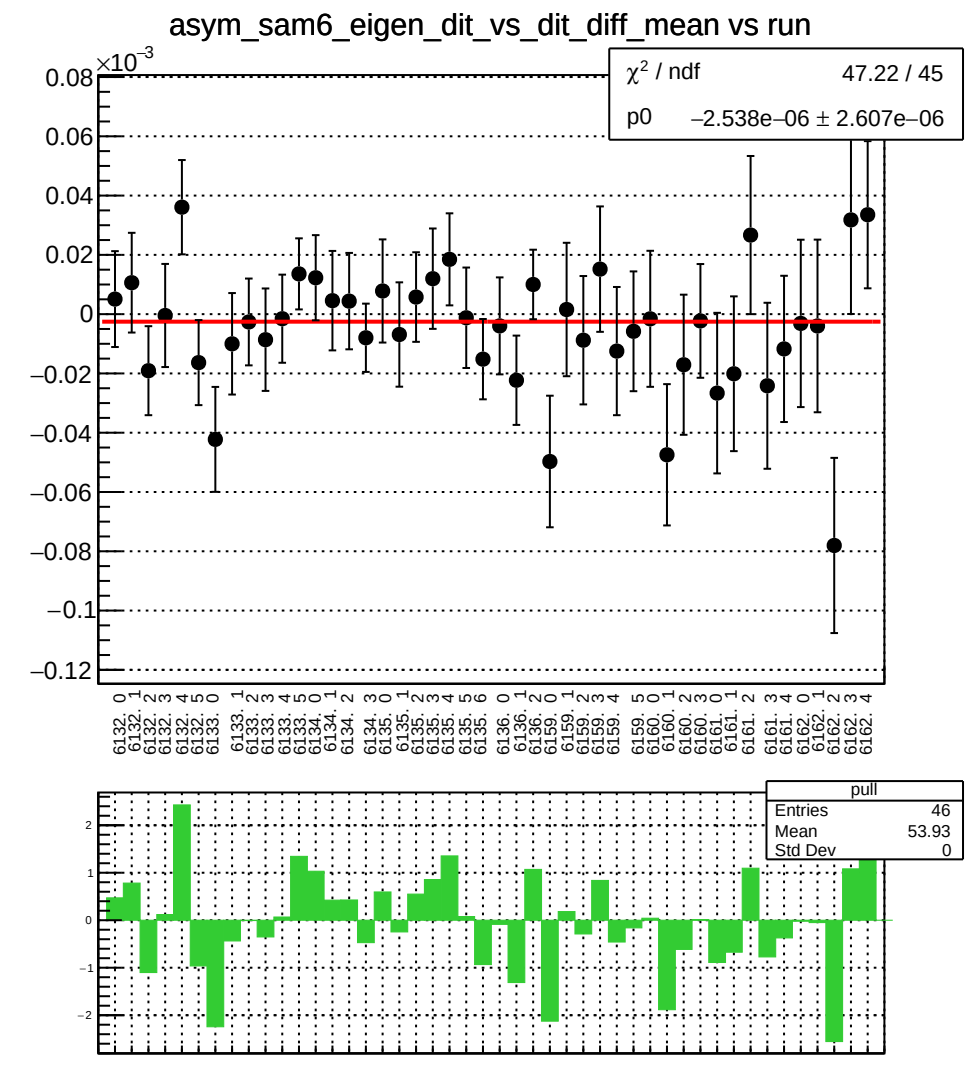

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 62.58 / 45
p0 0.03043 ± 0.09085
pull
Entries 46
Mean −503.2
Std Dev 0

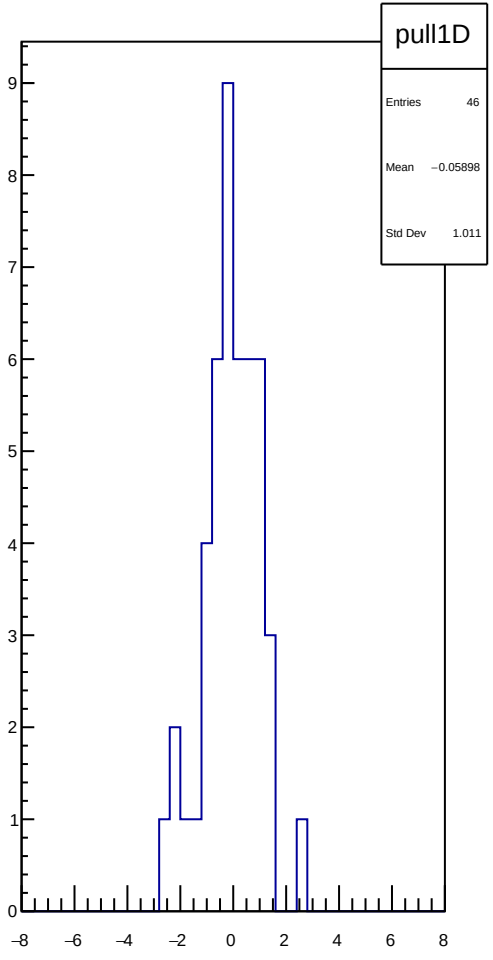

pull1D
Entries 46
Mean −0.00121
Std Dev 1.166

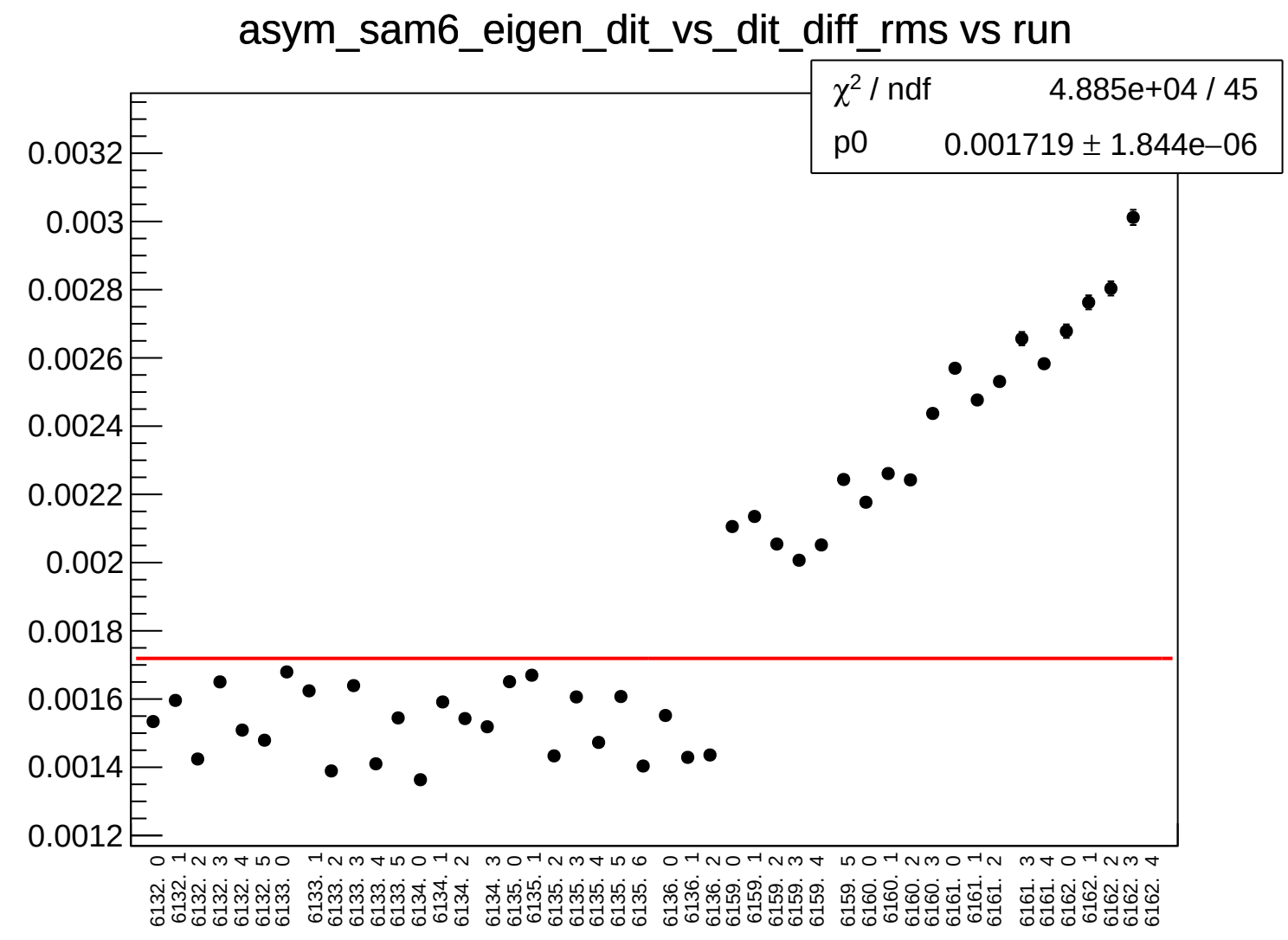

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 7.574e+04 / 45
p0 58.97 ± 0.06424
160
140
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

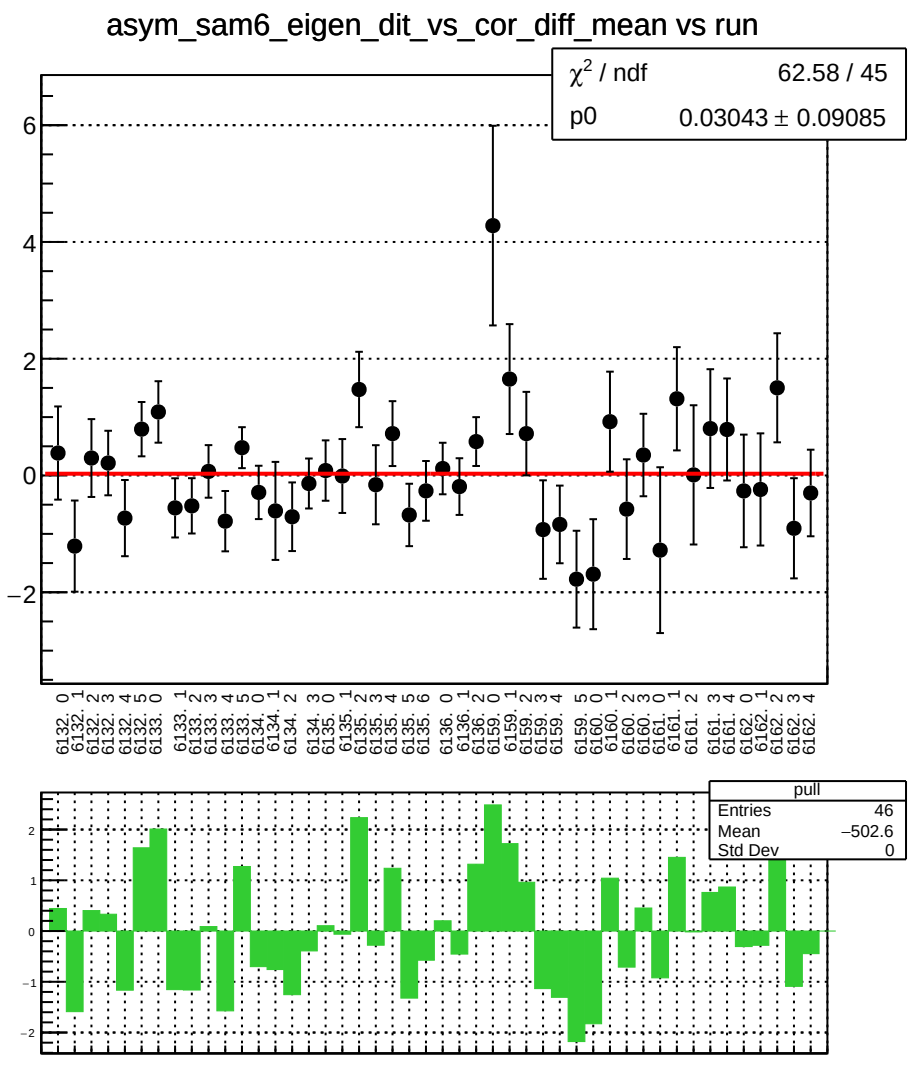

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.58 / 45
p0 0.03043 ± 0.09085
6
4
2
0
−2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −503.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.00121
Std Dev 1.166
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

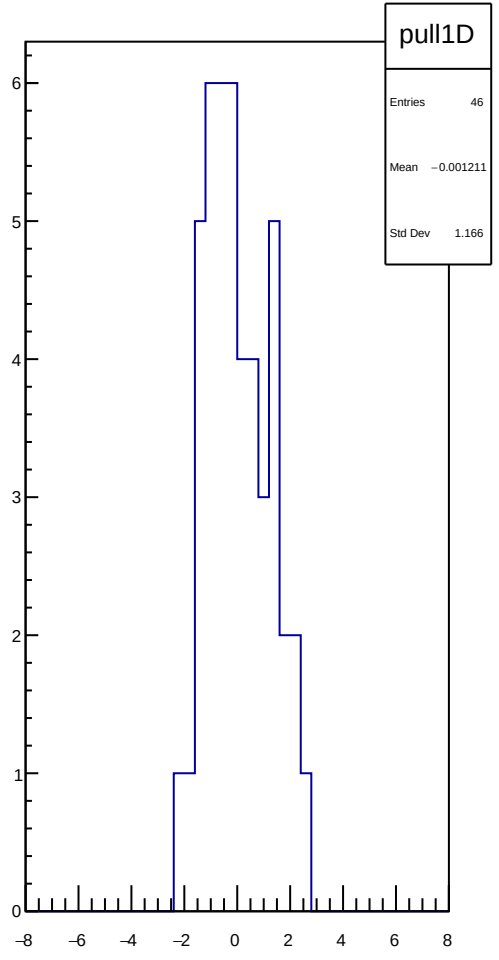

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.574e+04 / 45
p0 58.97 ± 0.06424
160
140
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

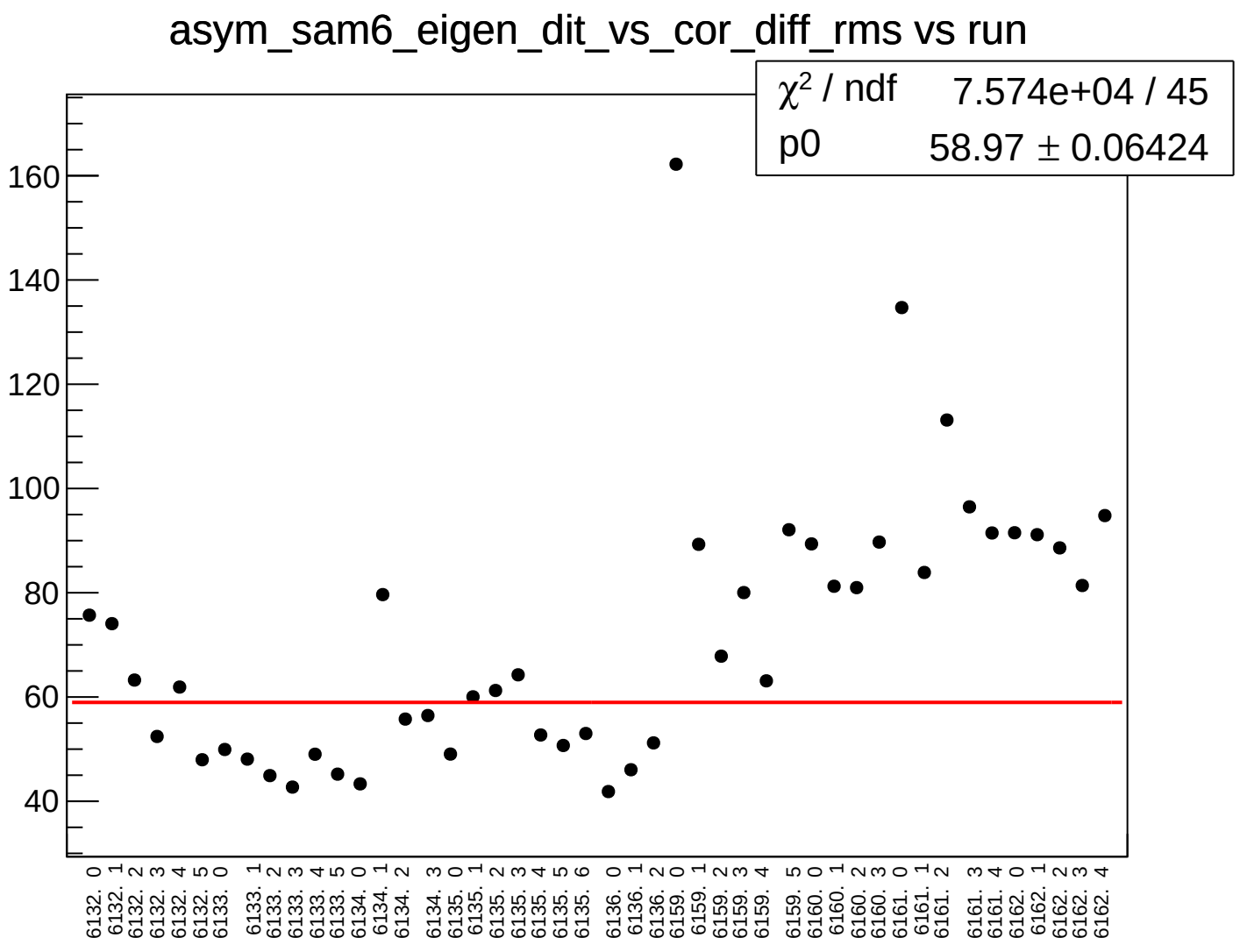

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 47.22 / 45
p0 −2.538e−06 ± 2.607e−06
pull
Entries 46
Mean 53.93
Std Dev 0

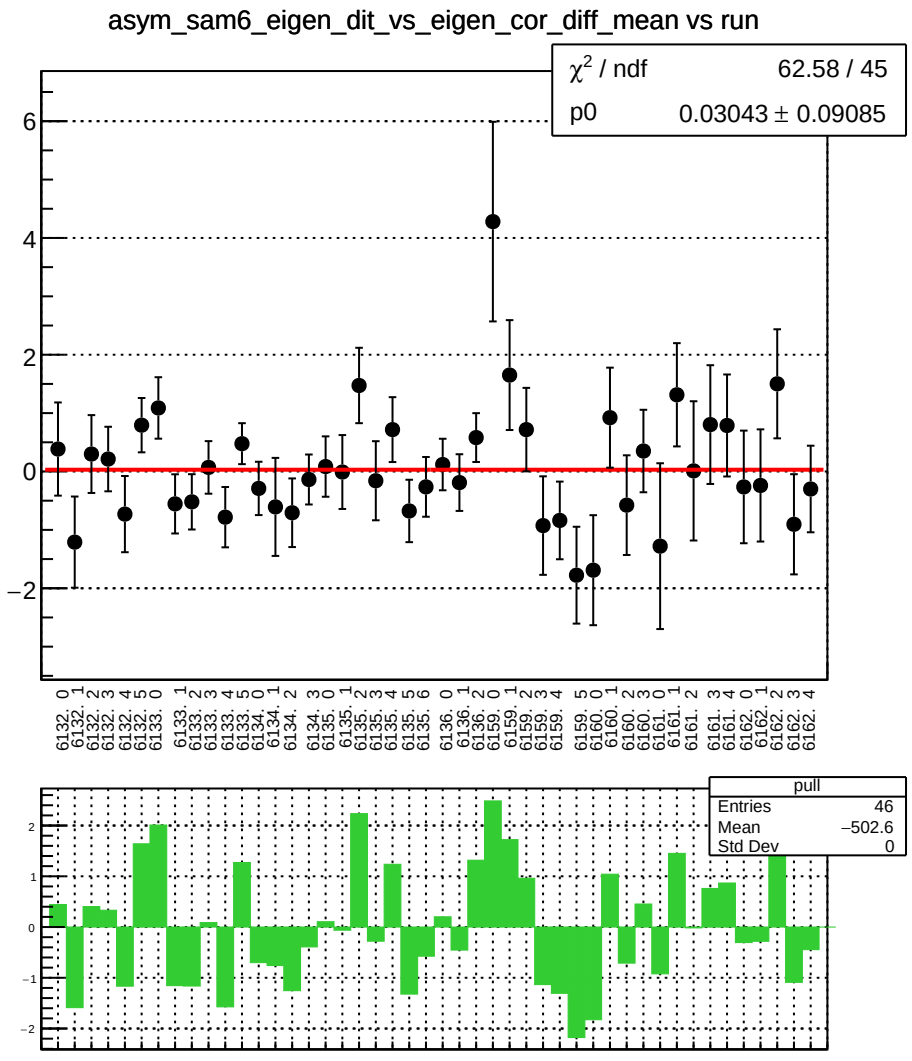

pull1D
Entries 46
Mean −0.05898
Std Dev 1.011

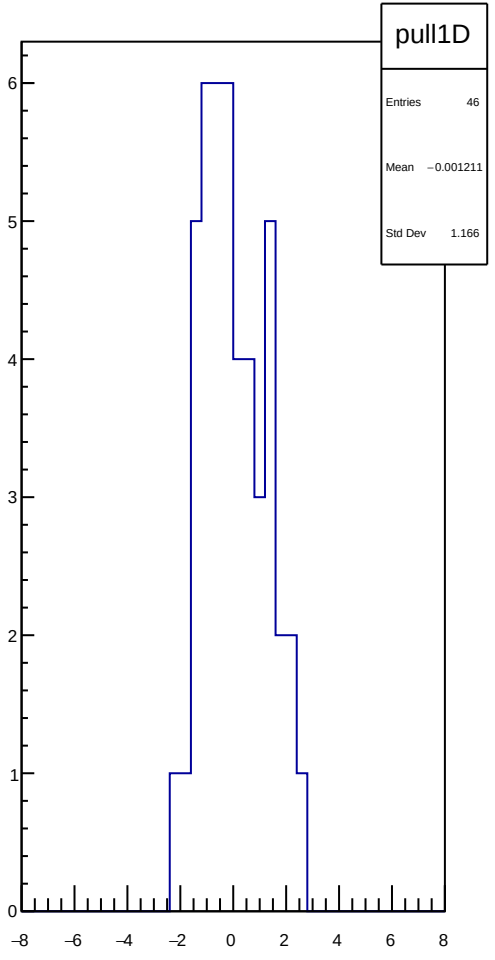

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.885e+04 / 45
p0 0.001719 ± 1.844e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

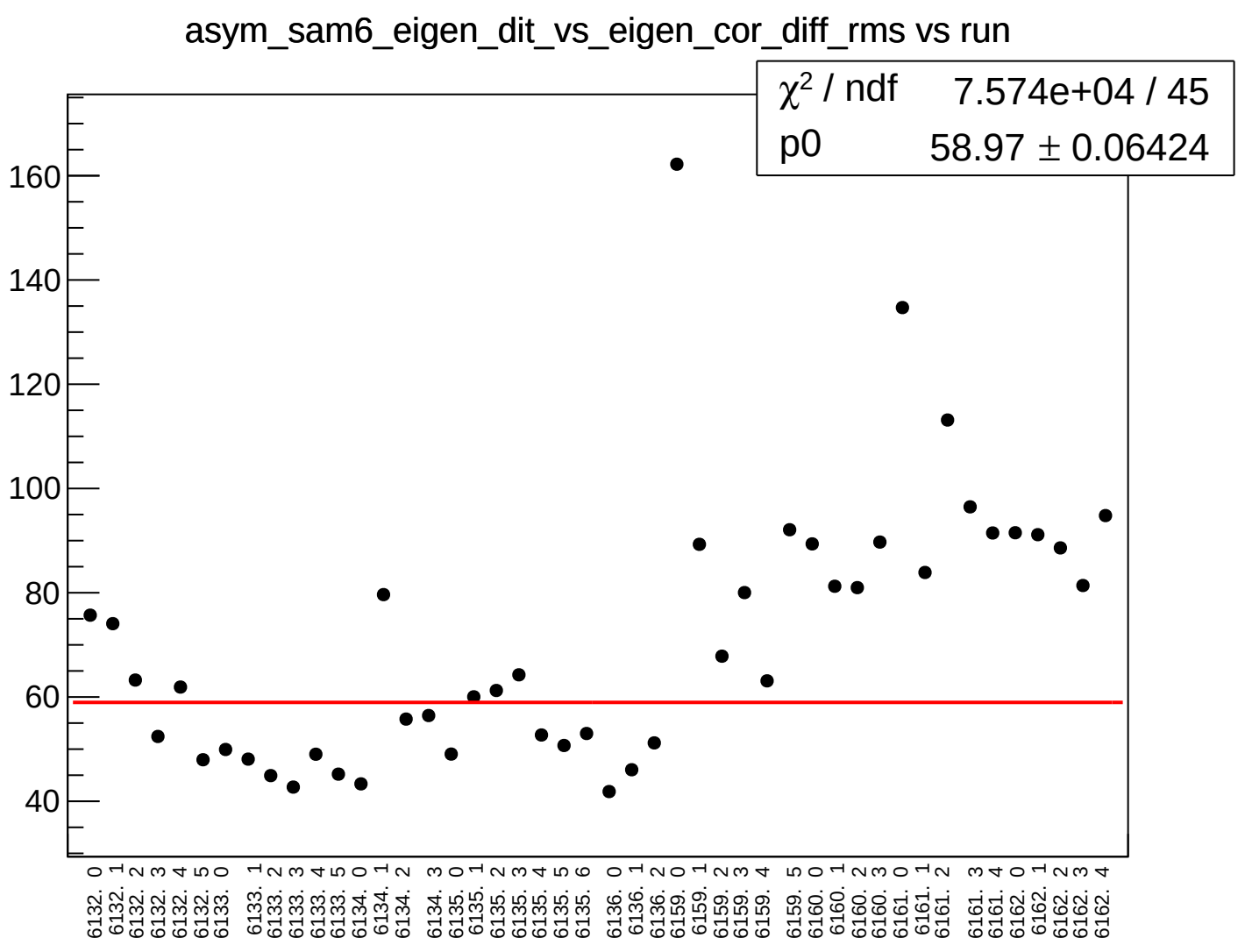

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 62.58 / 45
p0 0.03043 ± 0.09085
pull
Entries 46
Mean −502.6
Std Dev 0

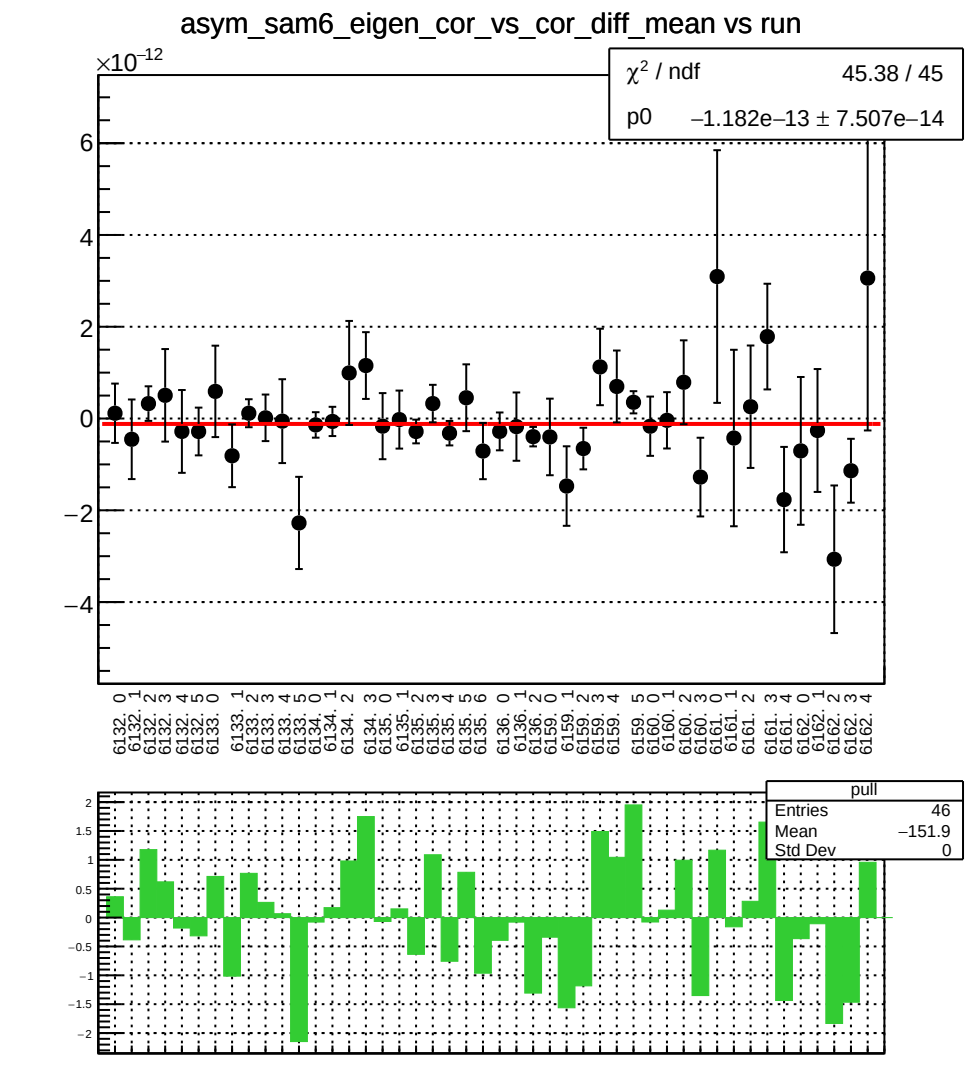

pull1D
Entries 46
Mean −0.001211
Std Dev 1.166

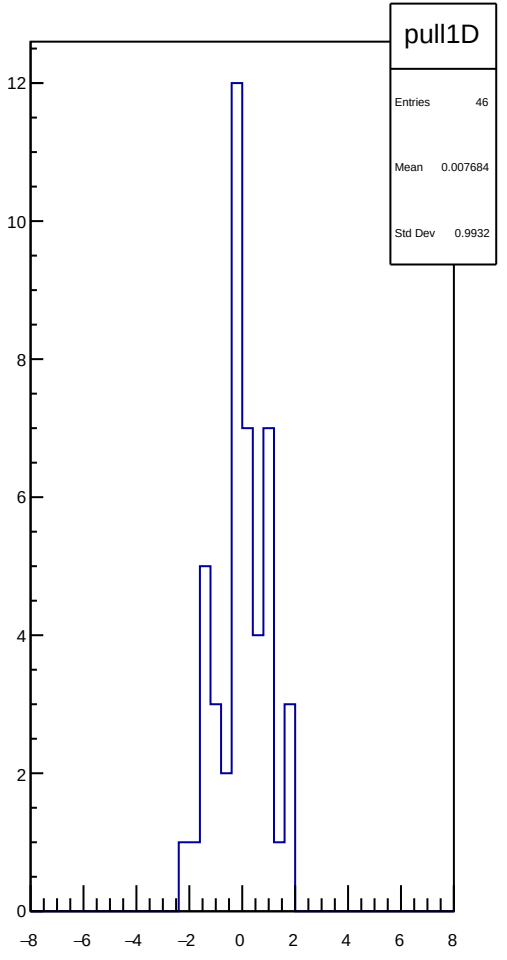

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.574e+04 / 45
p0 58.97 ± 0.06424
160
140
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

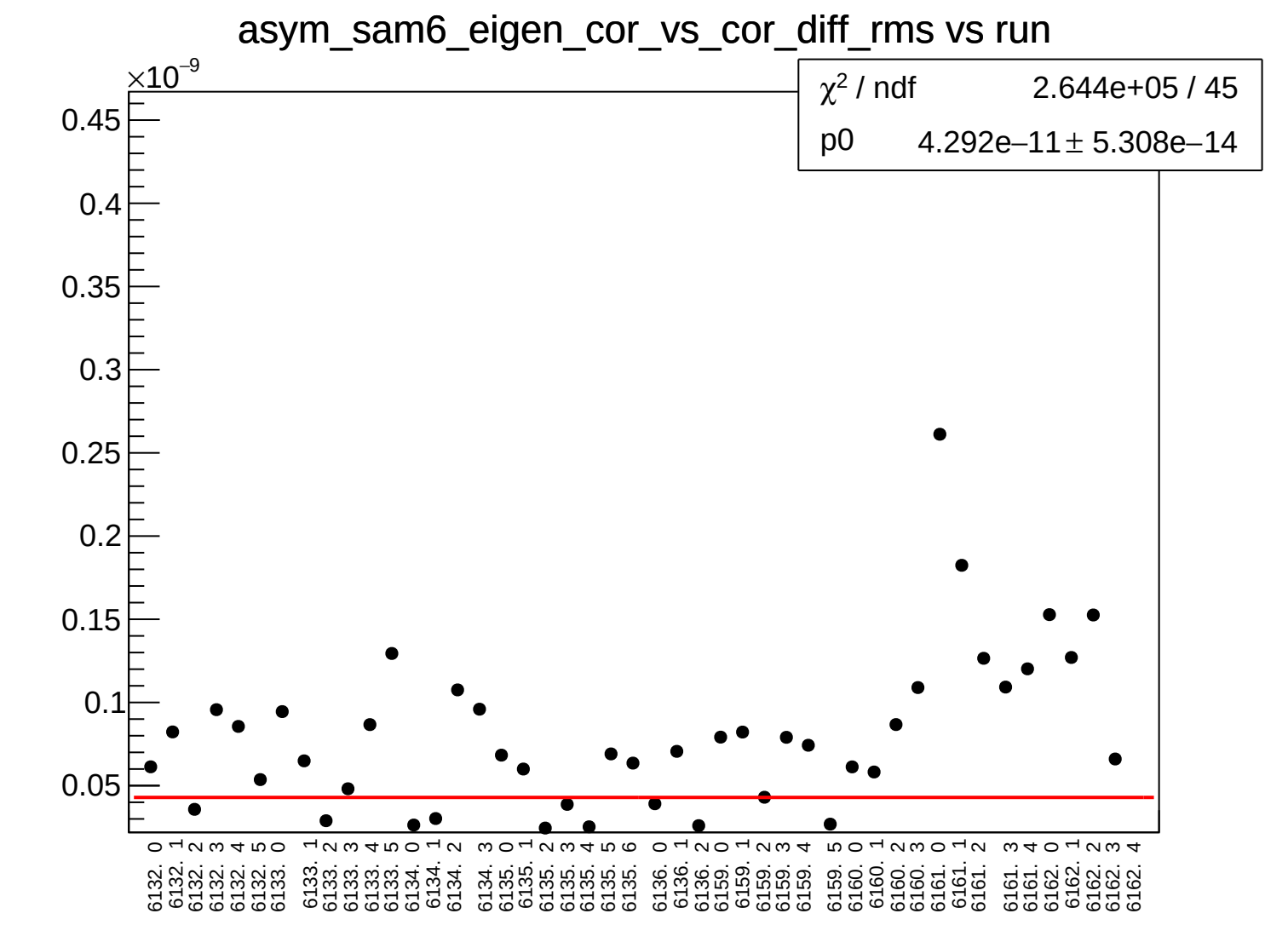

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.58 / 45
p0 0.03043 ± 0.09085
pull
Entries 46
Mean −502.6
Std Dev 0

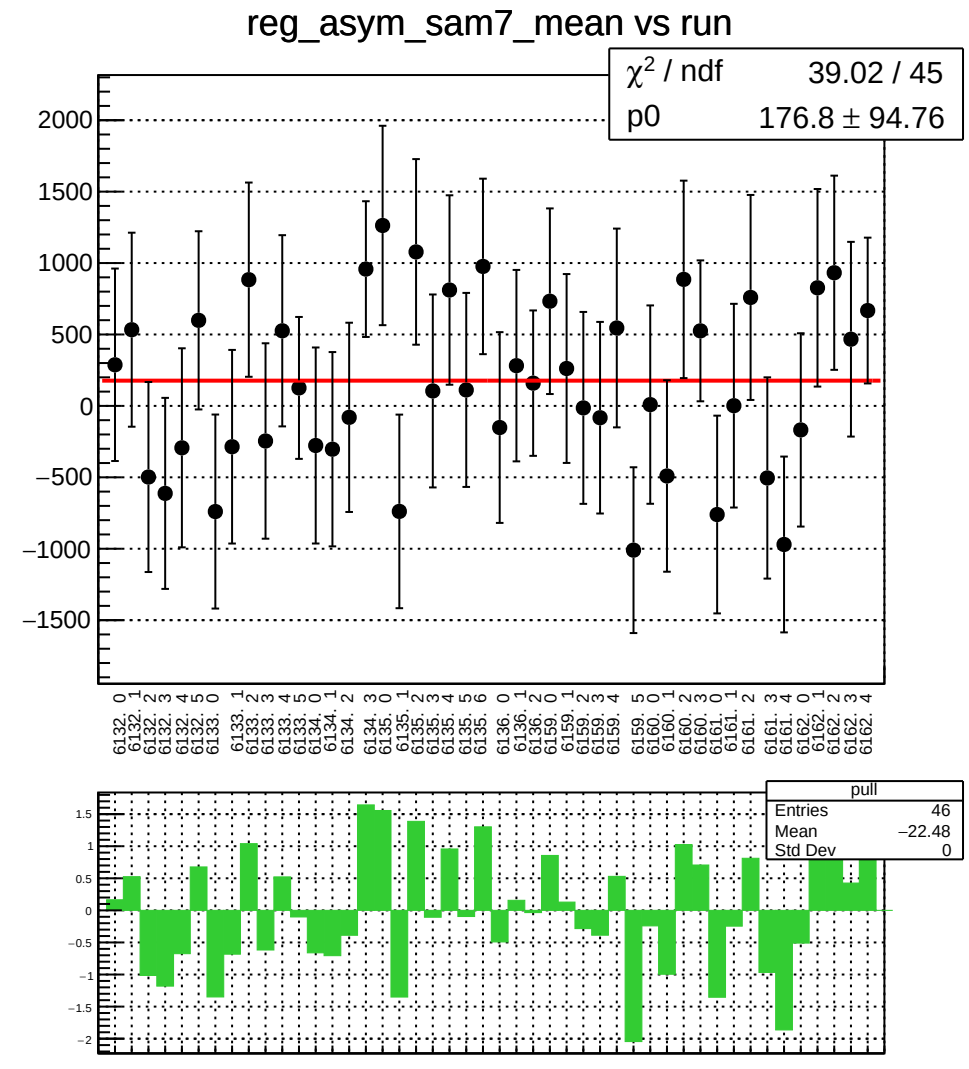

pull1D
Entries 46
Mean −0.001211
Std Dev 1.166

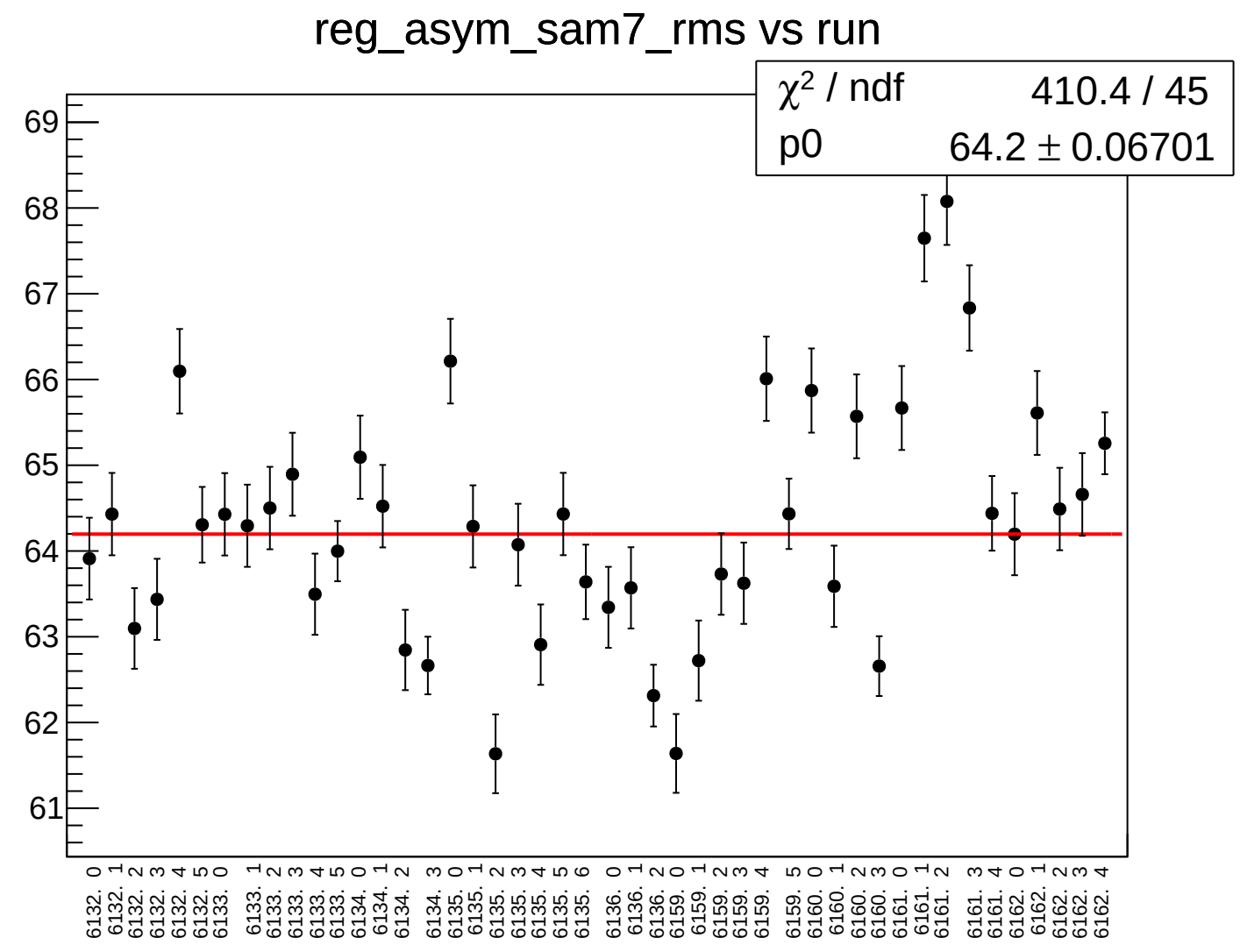

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.574e+04 / 45
p0 58.97 ± 0.06424
160
140
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

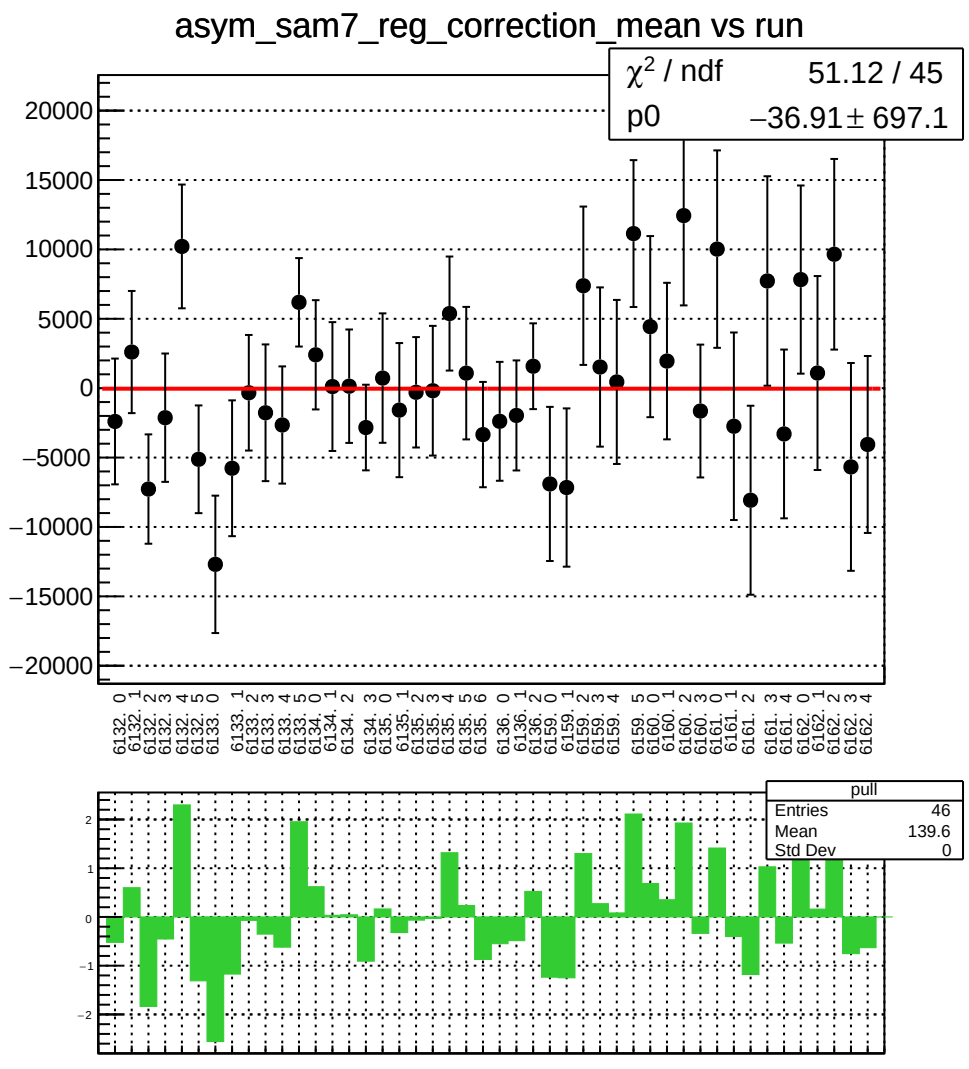

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 45.38 / 45
p0 −1.182e−13 ± 7.507e−14
6
4
2
0
−2
−4
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −151.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

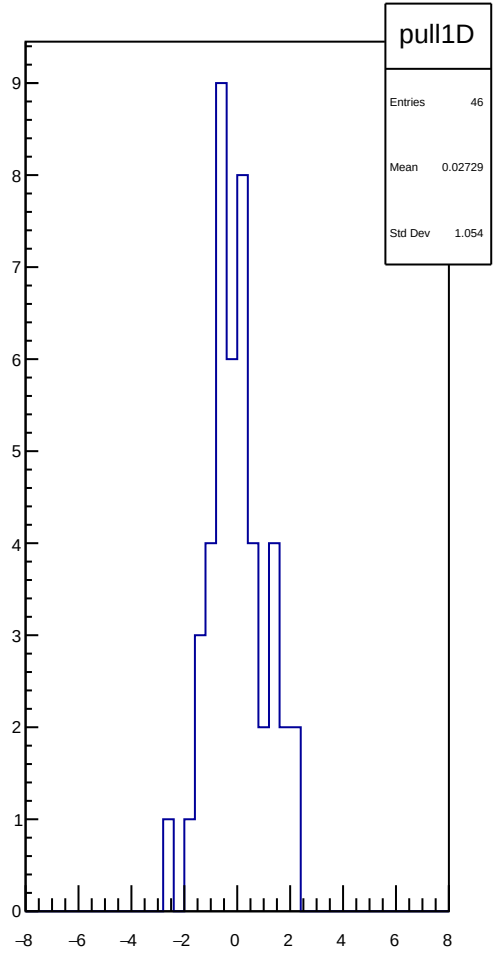

pull1D
Entries 46
Mean 0.007684
Std Dev 0.9932
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

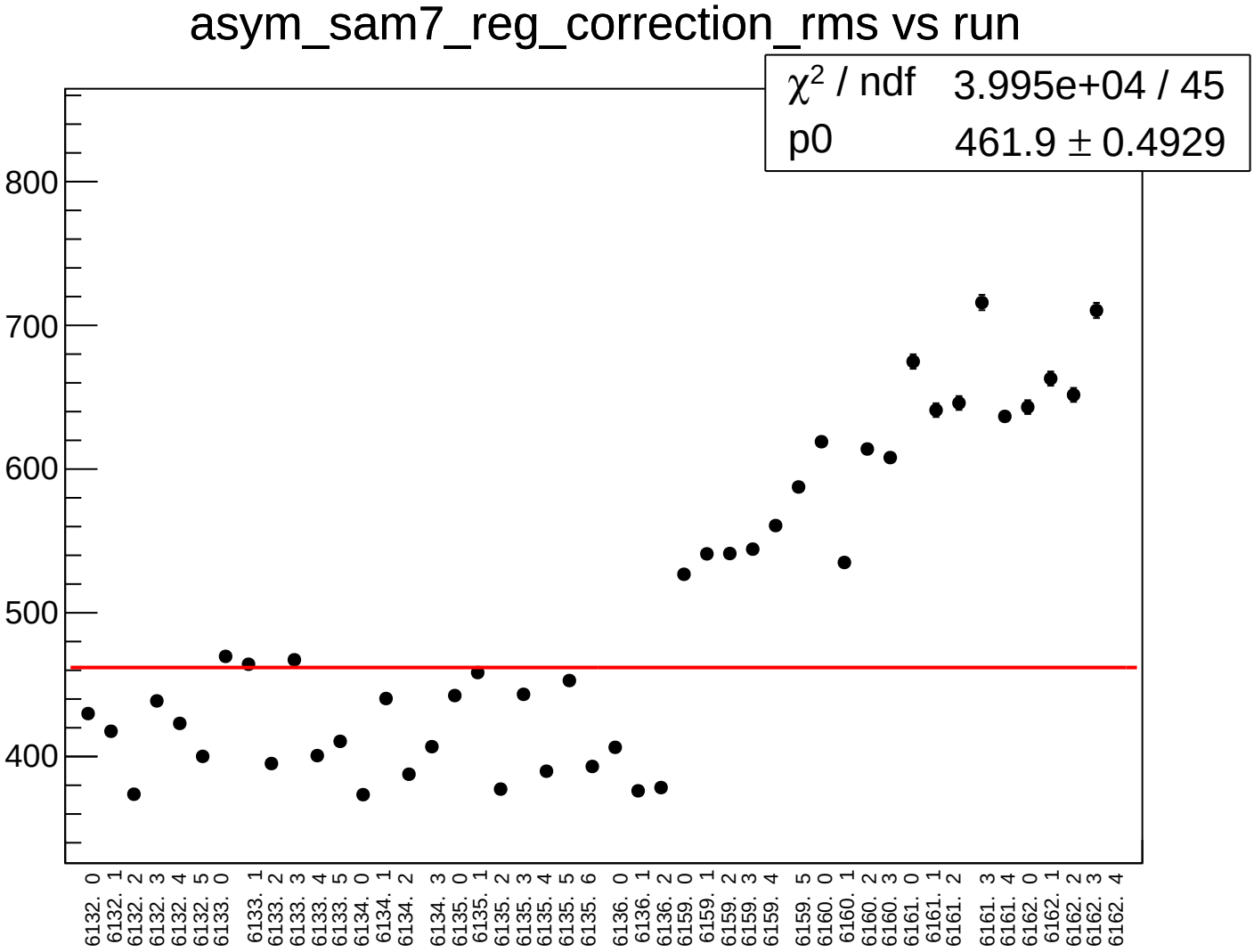

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.644e+05 / 45
p0 4.292e−11 ± 5.308e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

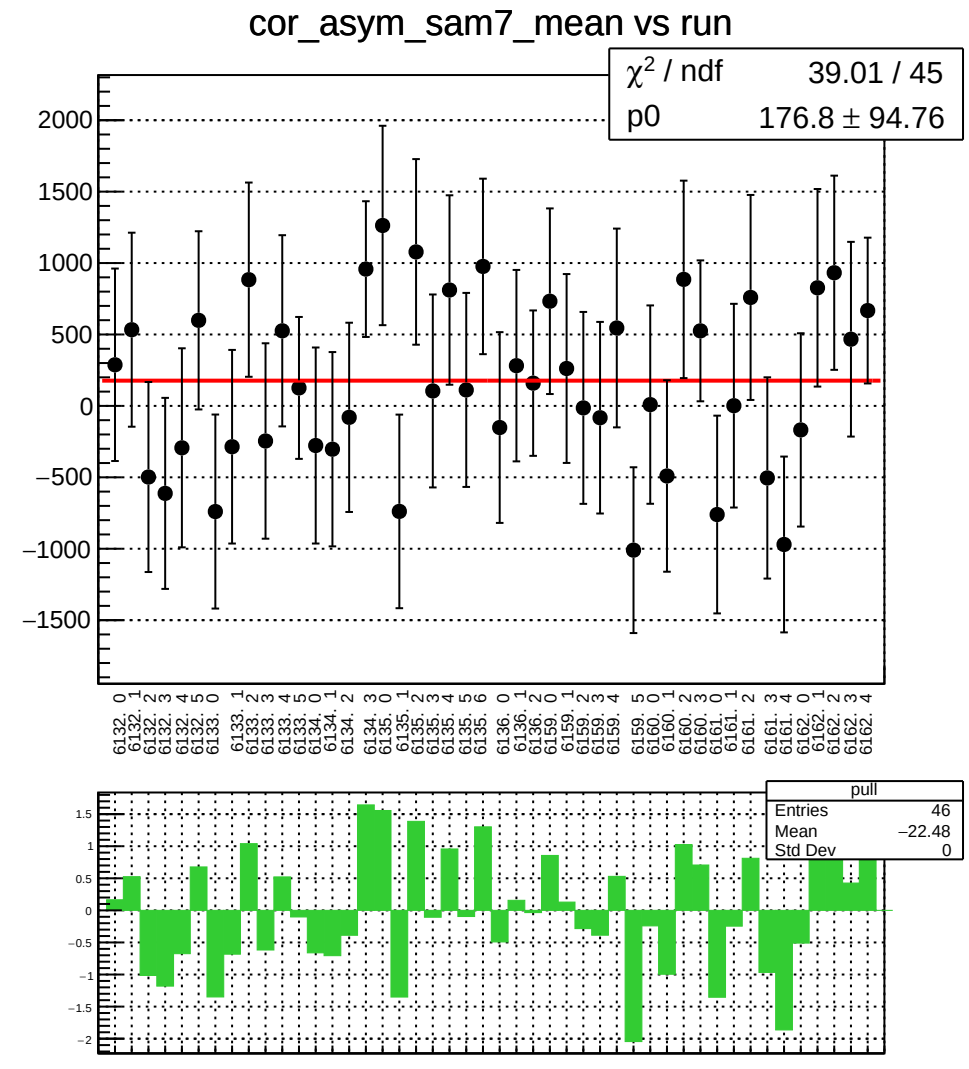

reg_asym_sam7_mean vs run
χ^2 / ndf 39.02 / 45
p0 176.8 ± 94.76
2000
1500
1000
500
0
−500
−1000
−1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −22.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.02002
Std Dev 0.9207
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

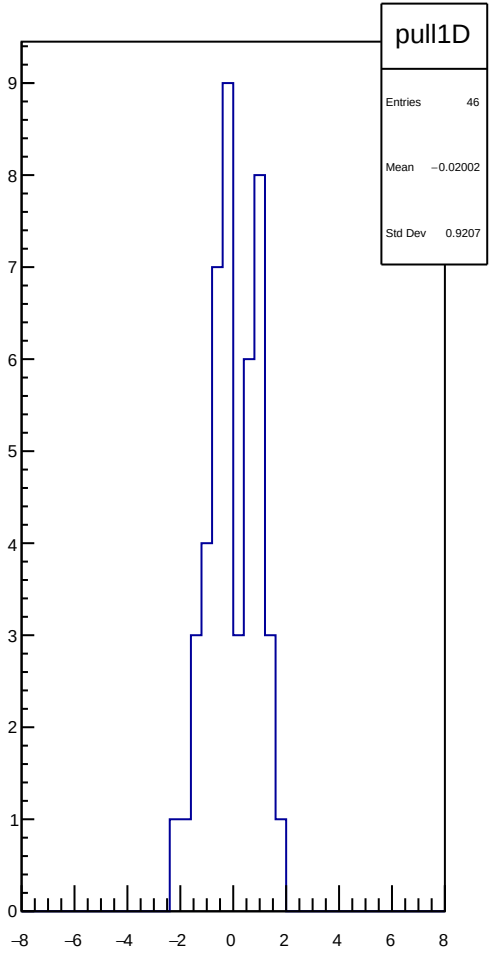

reg_asym_sam7_rms vs run
χ² / ndf 410.4 / 45
p0 64.2 ± 0.06701
69
68
67
66
65
64
63
62
61
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

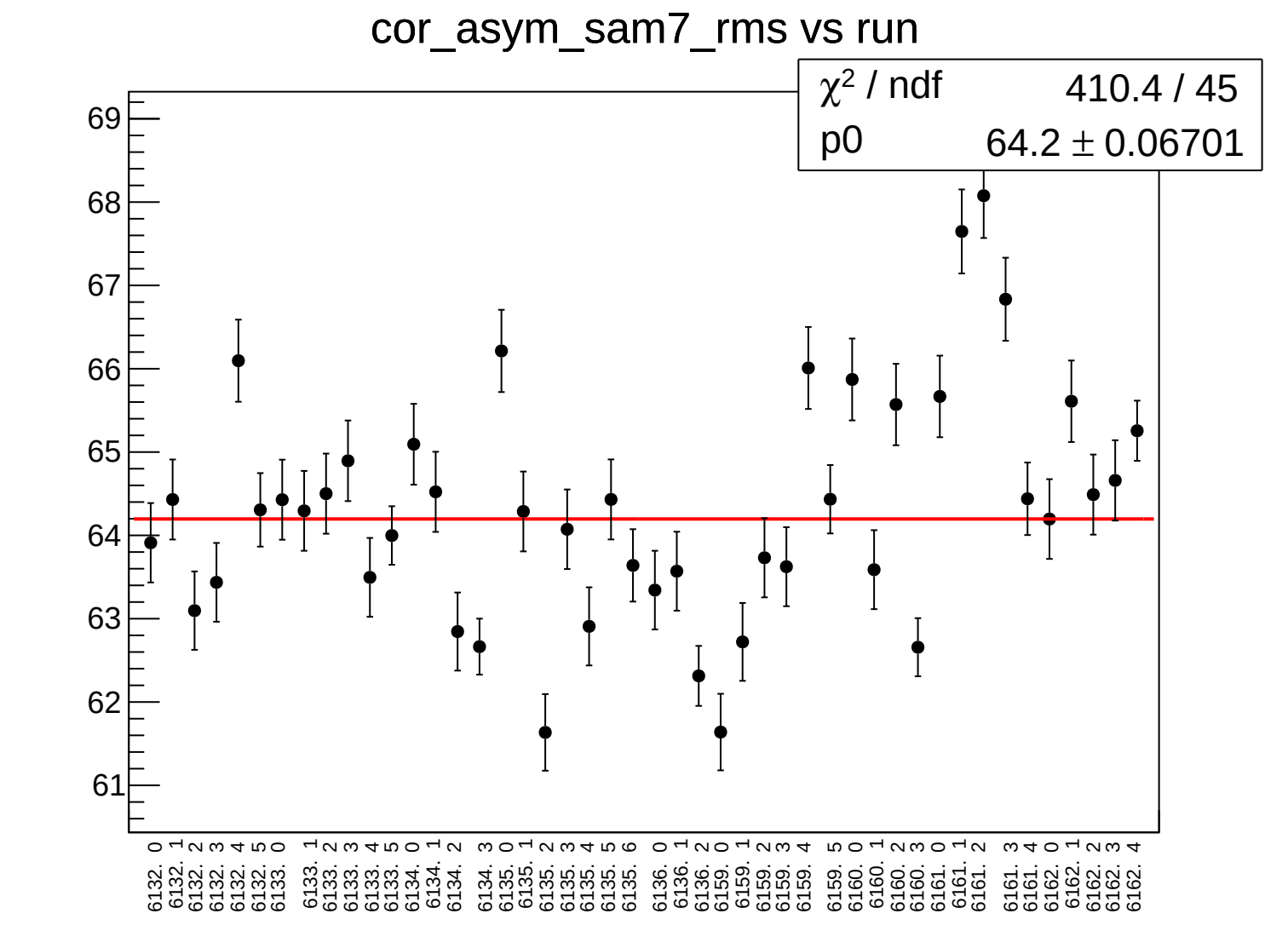

asym_sam7_reg_correction_mean vs run
χ² / ndf 51.12 / 45
p0 −36.91 ± 697.1
pull
Entries 46
Mean 139.6
Std Dev 0

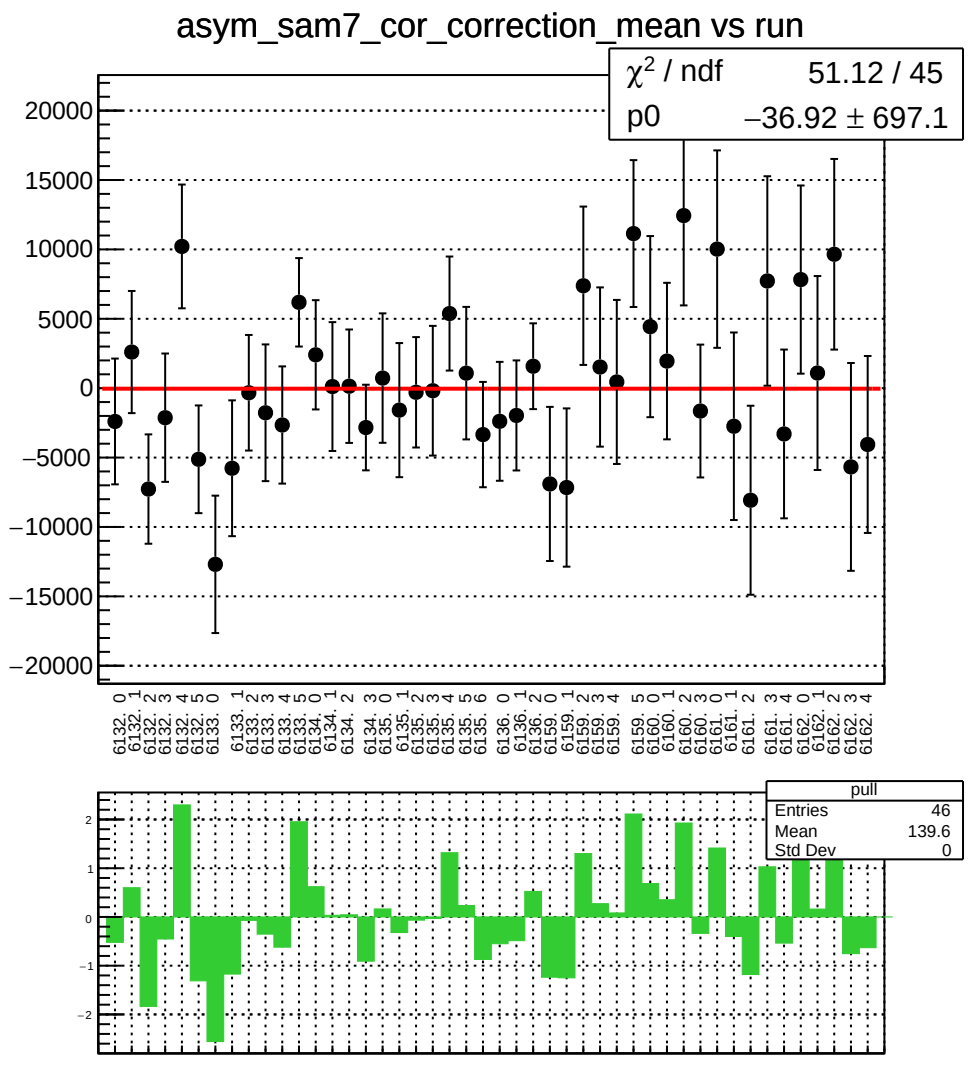

pull1D
Entries 46
Mean 0.02729
Std Dev 1.054

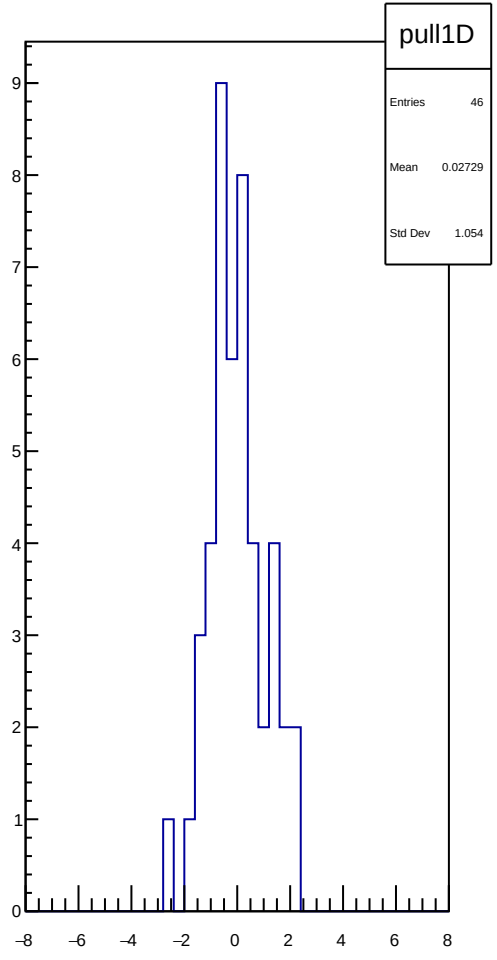

asym_sam7_reg_correction_rms vs run
χ² / ndf 3.995e+04 / 45
p0 461.9 ± 0.4929
800
700
600
500
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

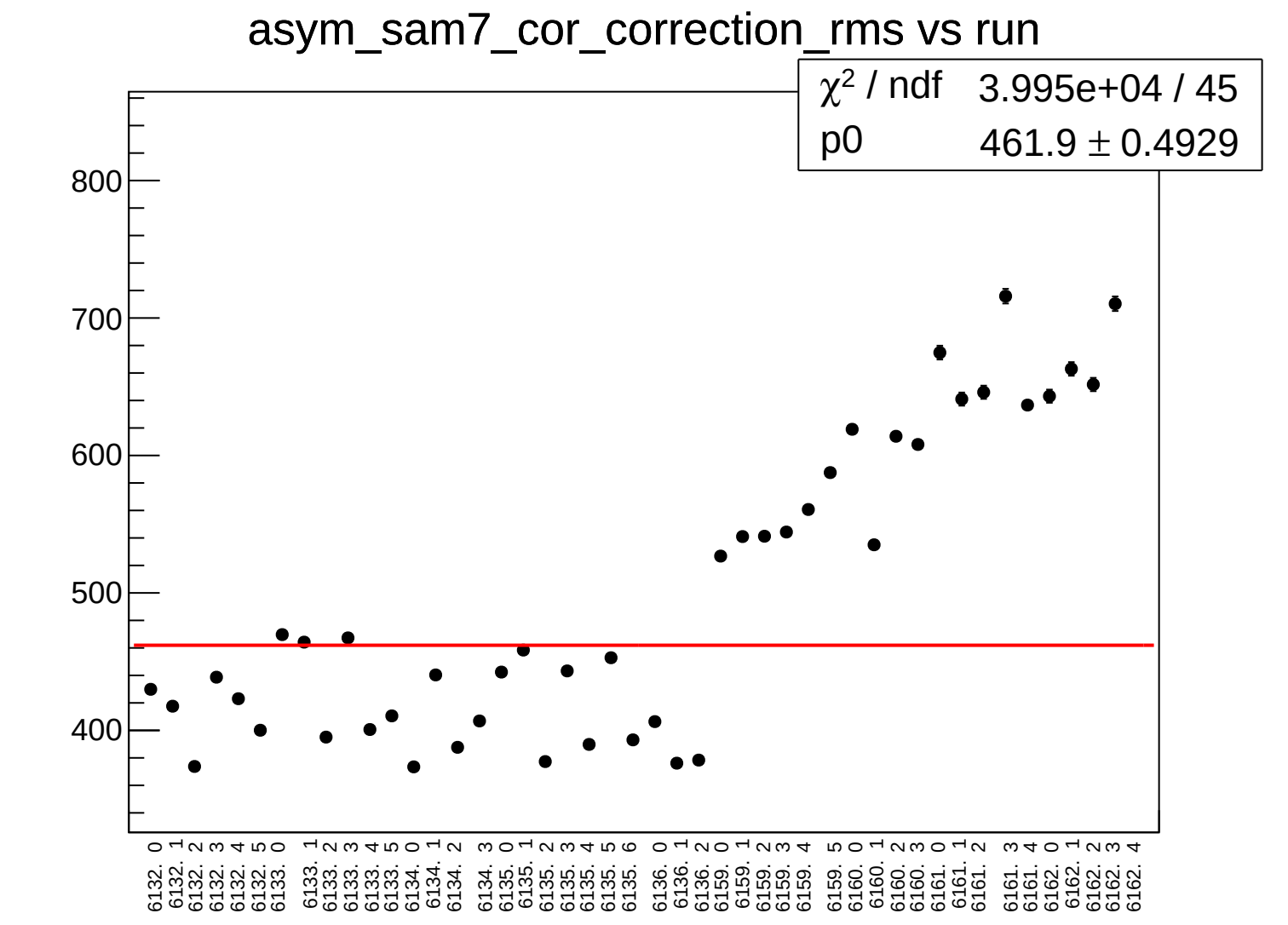

cor_asym_sam7_mean vs run
χ² / ndf 39.01 / 45
p0 176.8 ± 94.76
2000
1500
1000
500
0
−500
−1000
−1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −22.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean −0.02002
Std Dev 0.9207
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam7_rms vs run
χ² / ndf 410.4 / 45
p0 64.2 ± 0.06701
69
68
67
66
65
64
63
62
61
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam7_cor_correction_mean vs run
χ² / ndf 51.12 / 45
p0 −36.92 ± 697.1
pull
Entries 46
Mean 139.6
Std Dev 0


pull1D
Entries 46
Mean 0.02729
Std Dev 1.054


asym_sam7_cor_correction_rms vs run
χ² / ndf 3.995e+04 / 45
p0 461.9 ± 0.4929
800
700
600
500
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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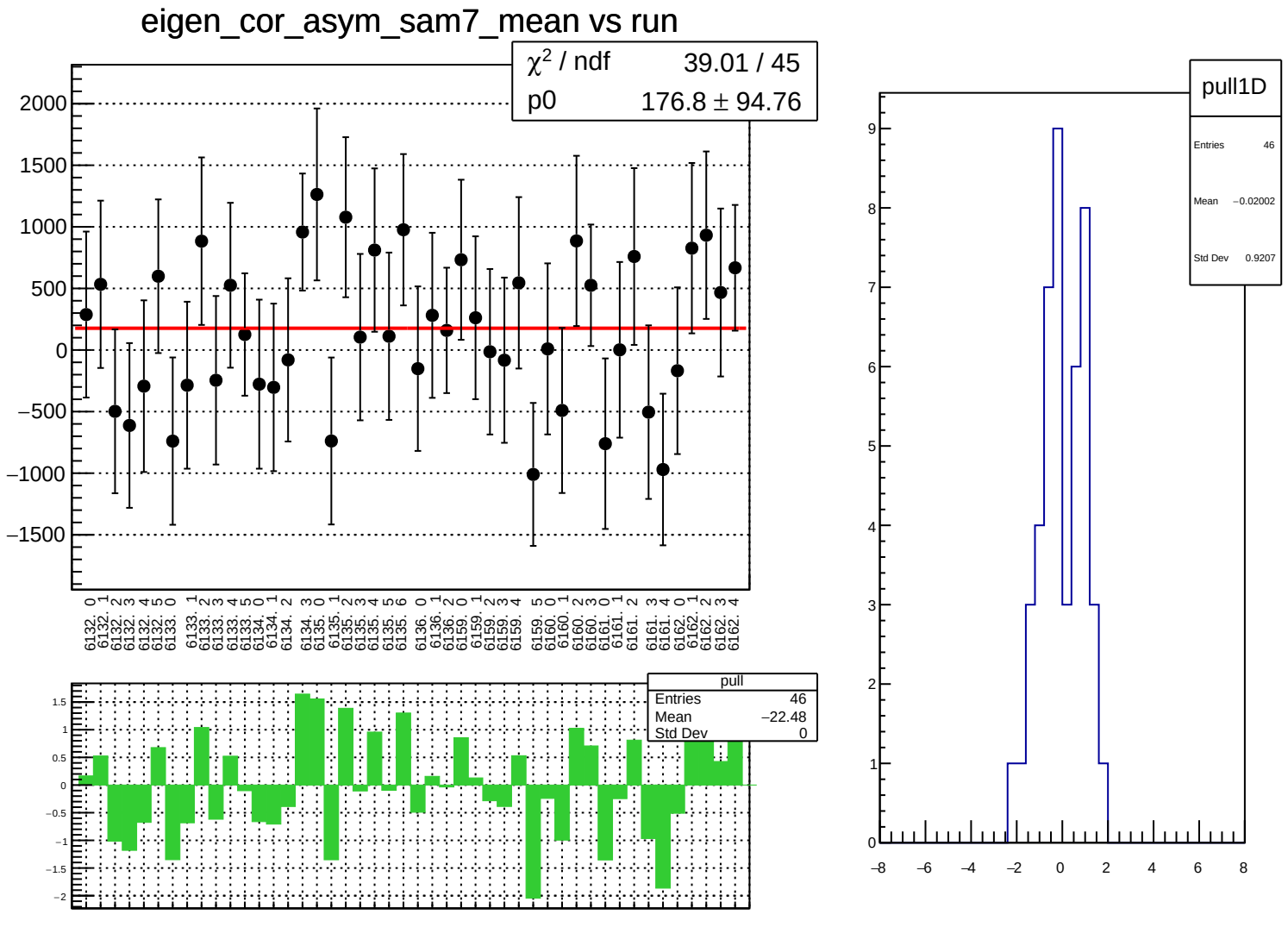
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_sam7_mean vs run
χ² / ndf 39.01 / 45
p0 176.8 ± 94.76
2000
1500
1000
500
0
−500
−1000
−1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −22.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.02002
Std Dev 0.9207
9
8
7
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3
2
1
0
−8
−6
−4
−2
0
2
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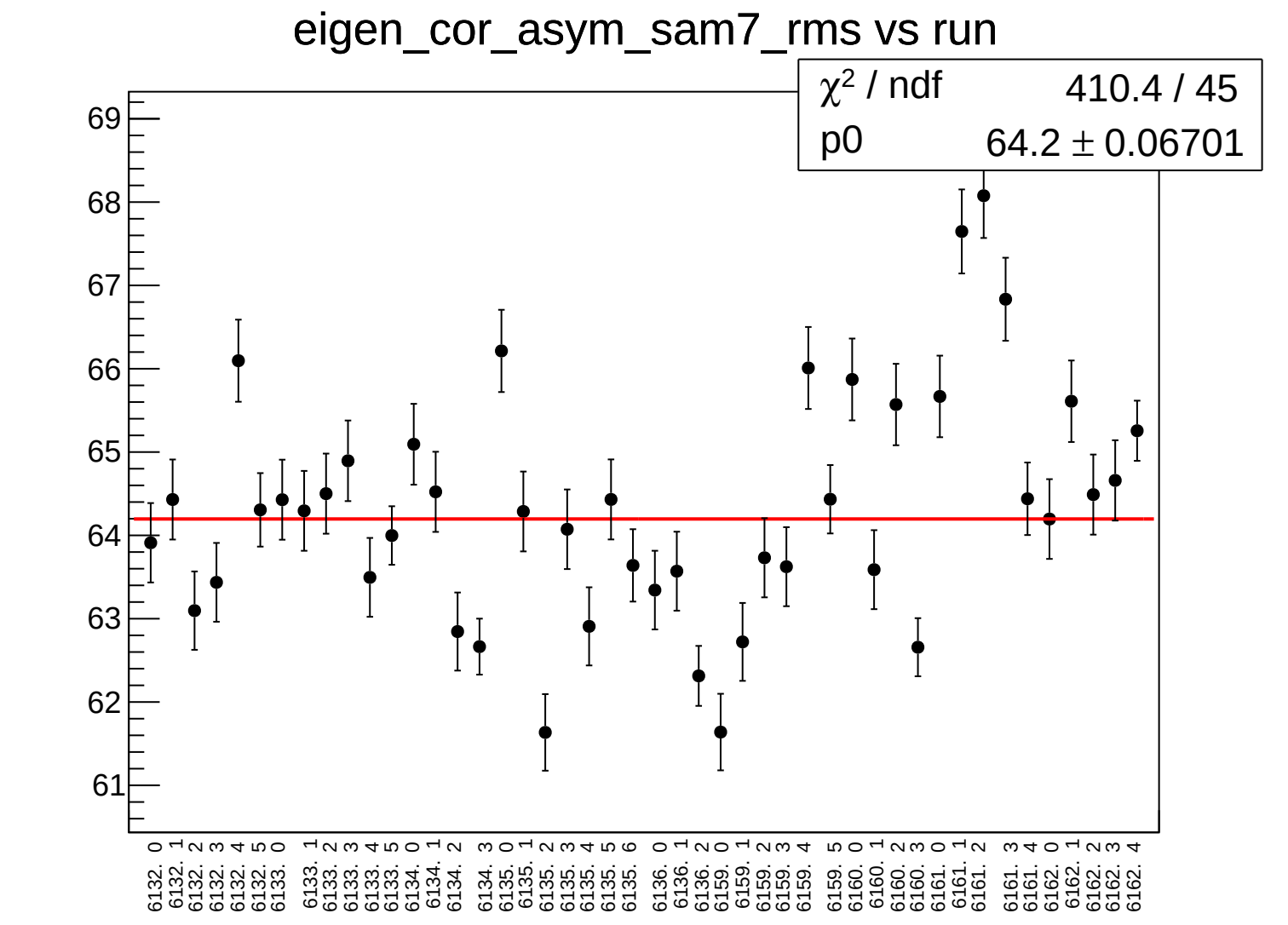
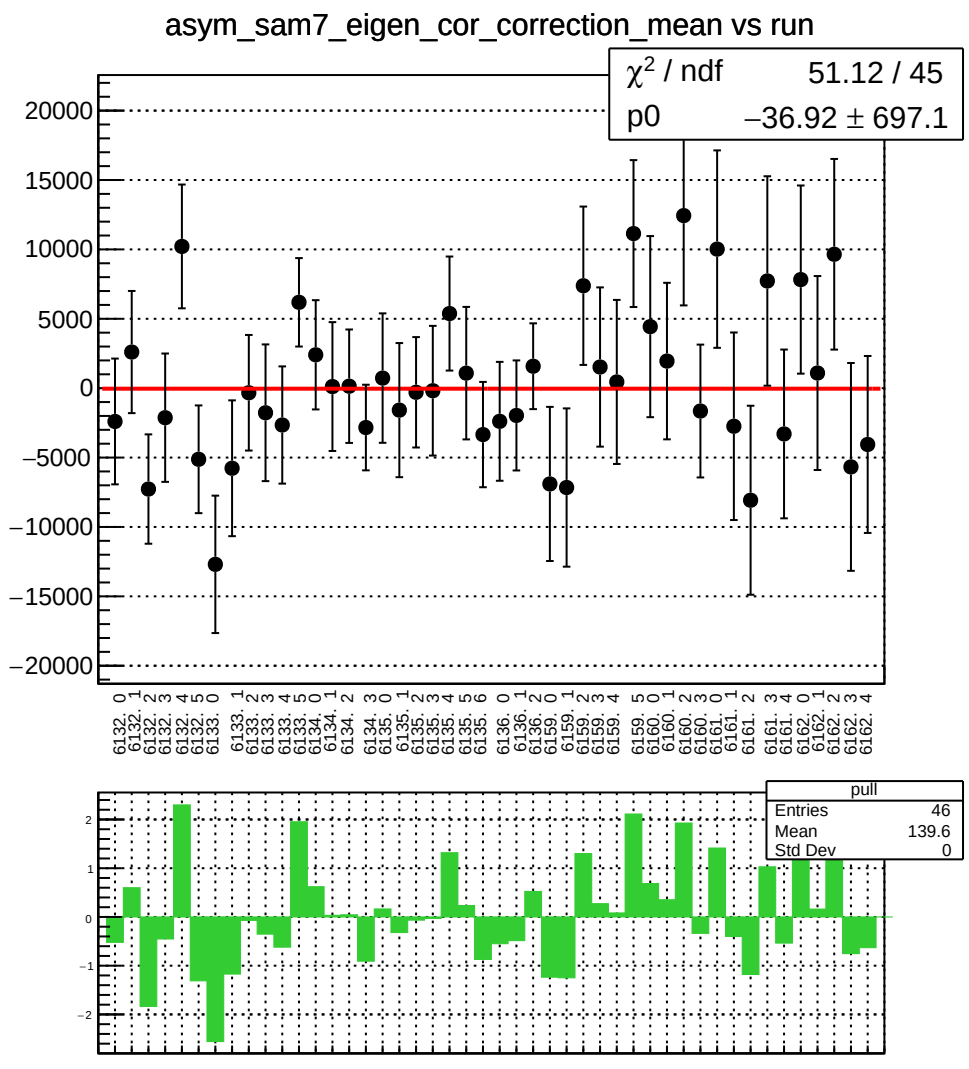
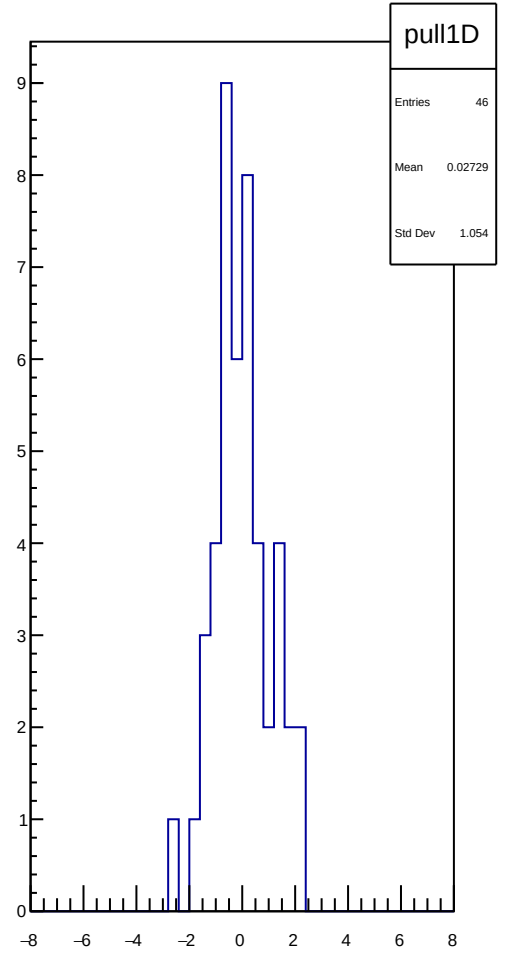
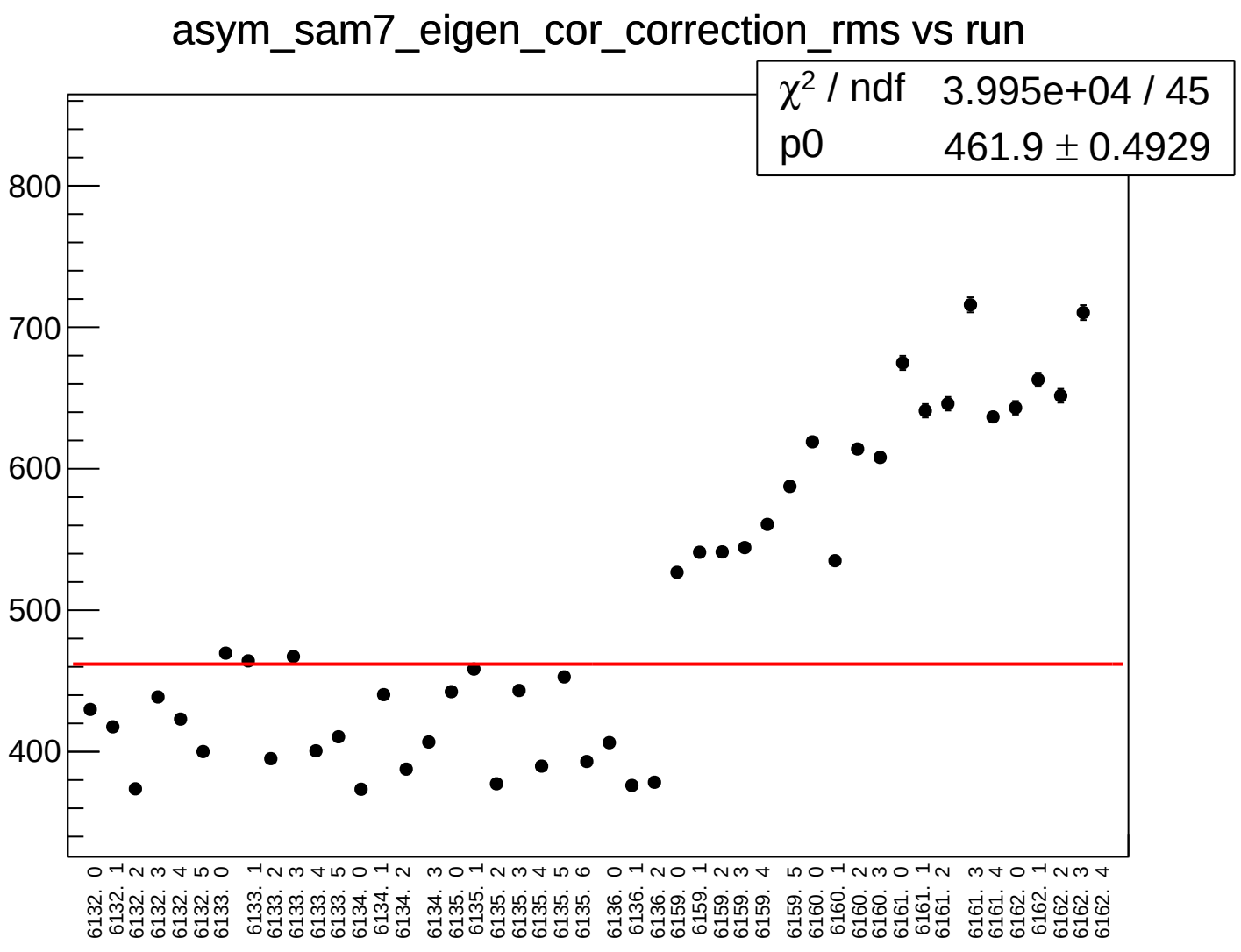
8


eigen_cor_asym_sam7_rms vs run
χ² / ndf 410.4 / 45
p0 64.2 ± 0.06701
69
68
67
66
65
64
63
62
61
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 51.12 / 45
p0 −36.92 ± 697.1
pull
Entries 46
Mean 139.6
Std Dev 0


pull1D
Entries 46
Mean 0.02729
Std Dev 1.054


asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 3.995e+04 / 45
p0 461.9 ± 0.4929
800
700
600
500
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
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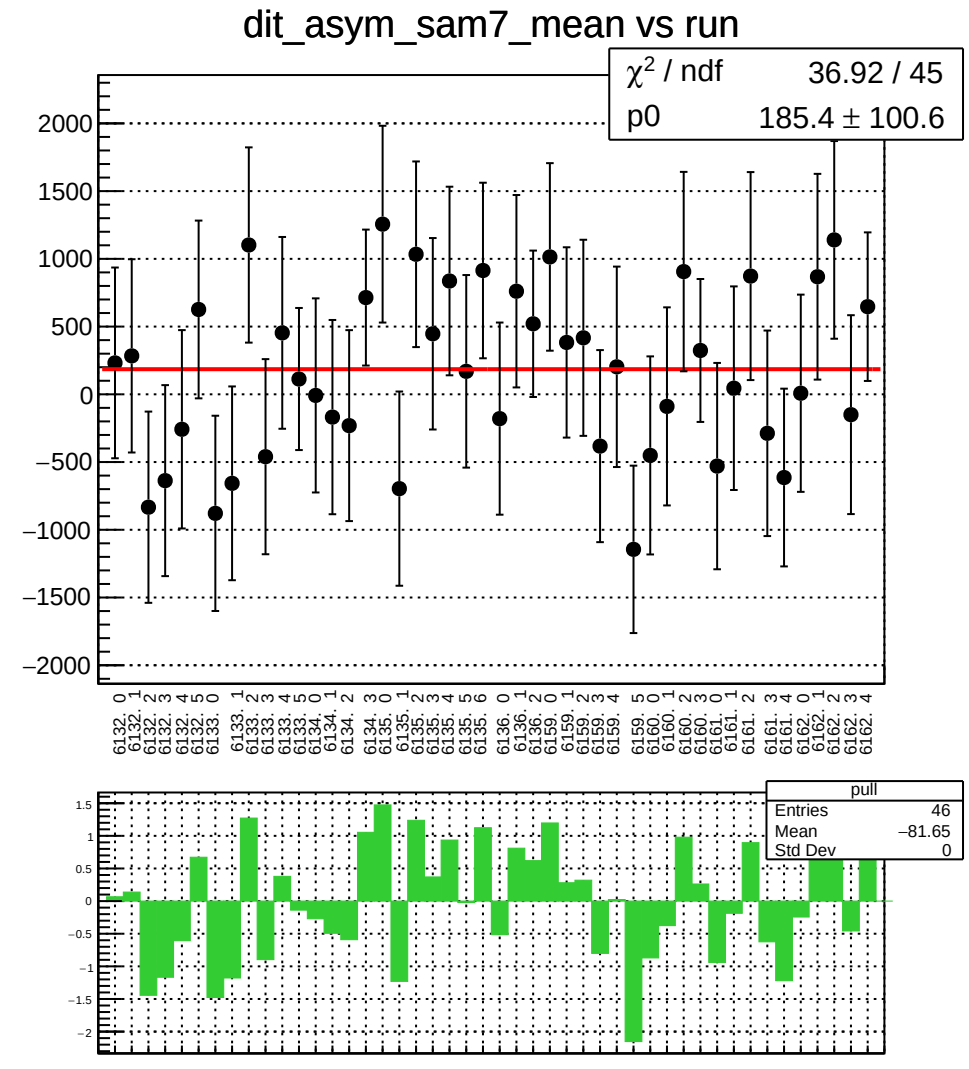
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


dit_asym_sam7_mean vs run
χ² / ndf 36.92 / 45
p0 185.4 ± 100.6
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
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6133. 4
6133. 5
6134. 0
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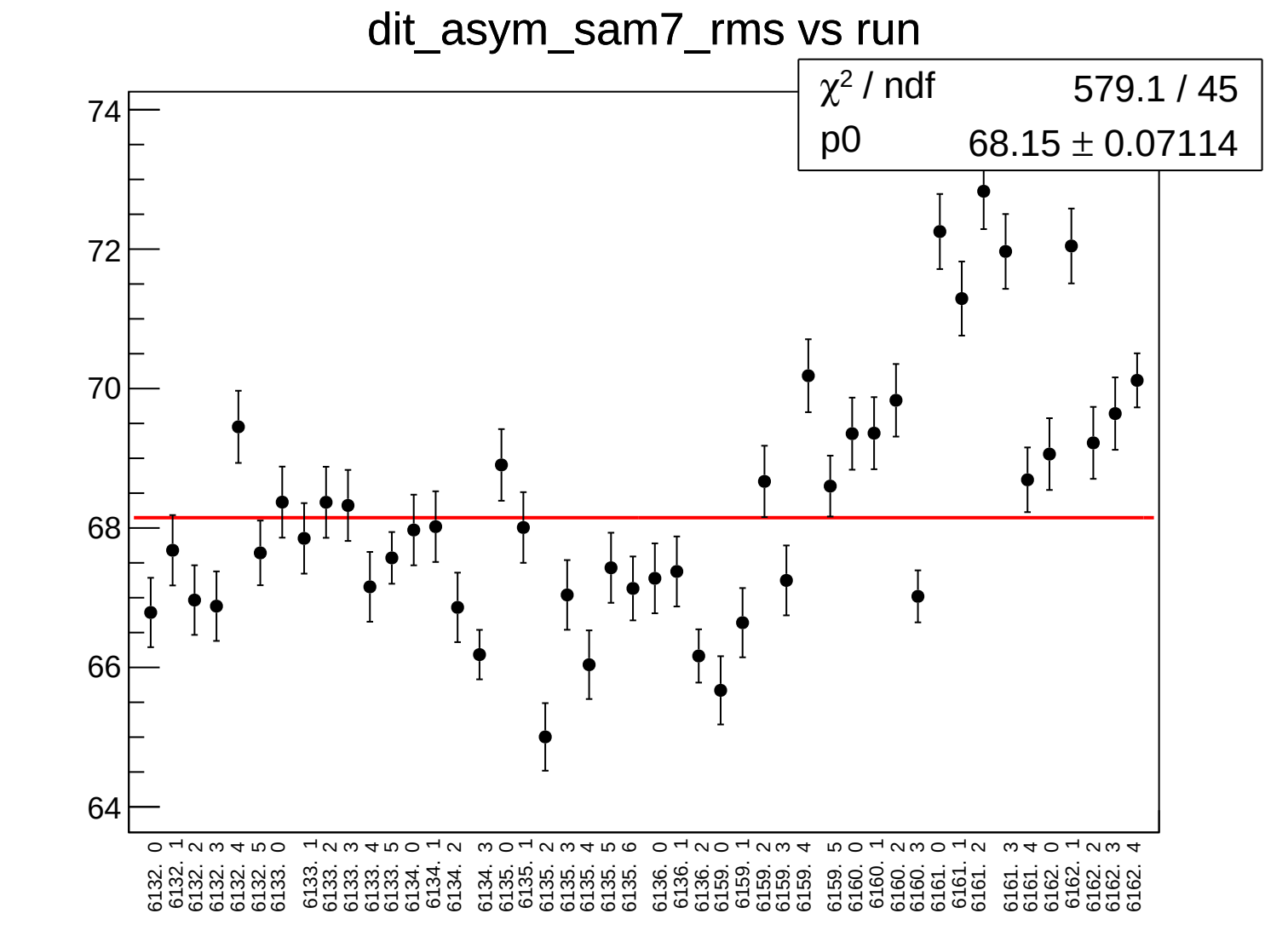
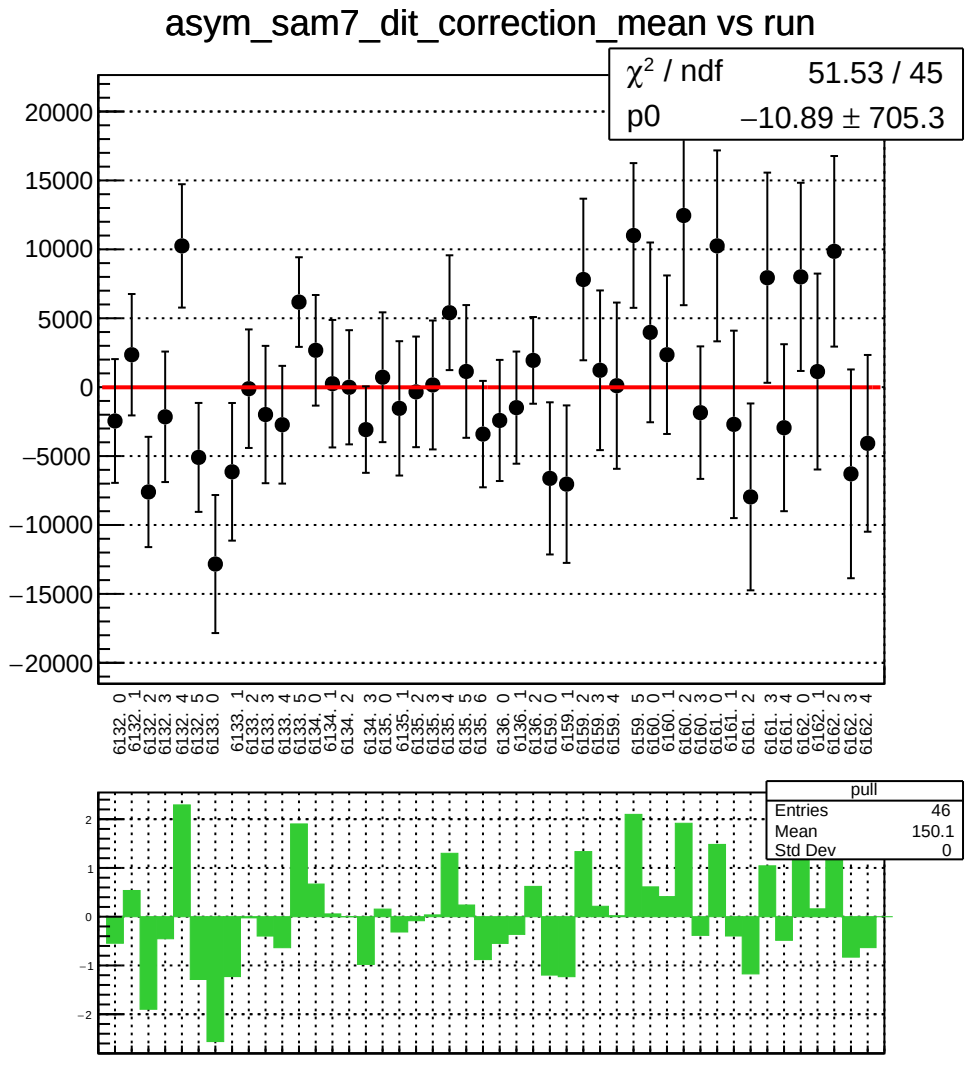
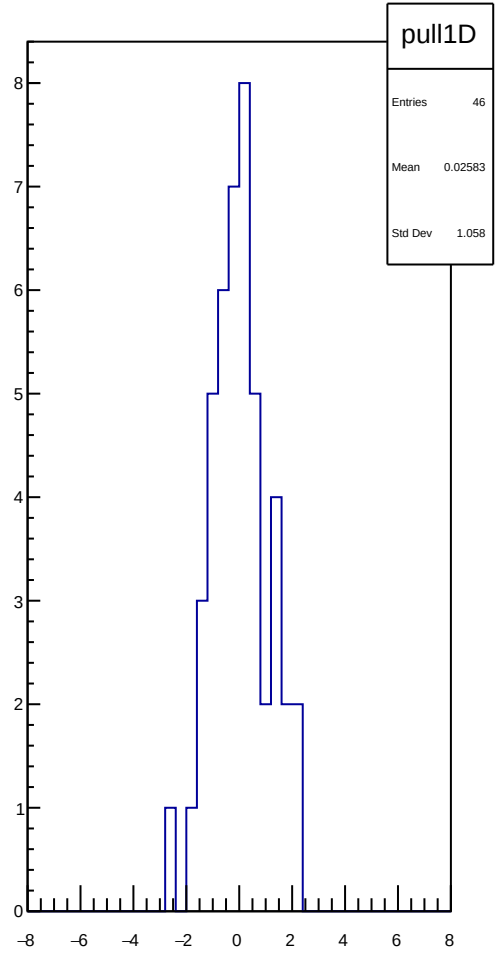
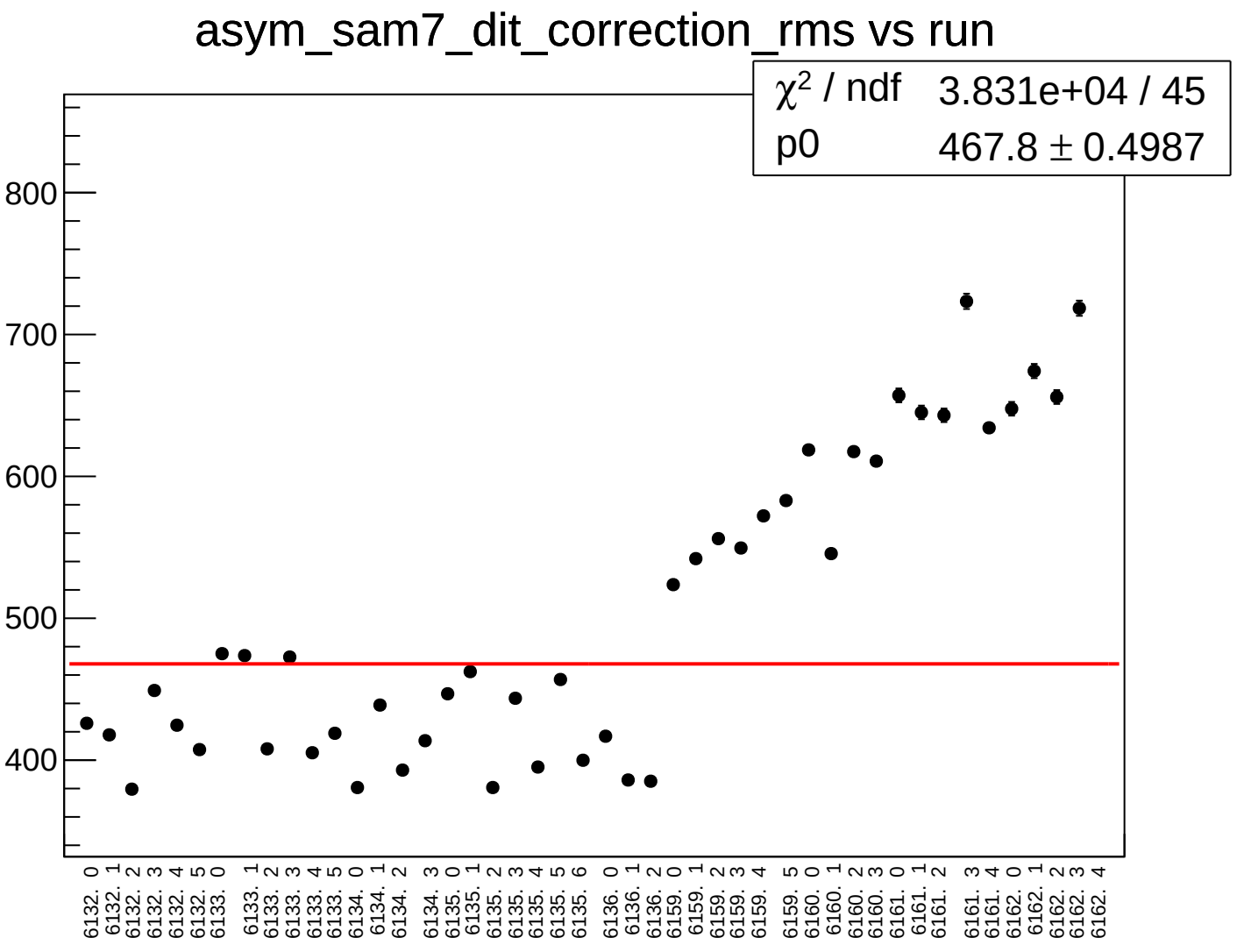
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −81.65
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.01602
Std Dev 0.8958
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam7_rms vs run
χ² / ndf 579.1 / 45
p0 68.15 ± 0.07114
74
72
70
68
66
64
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam7_dit_correction_mean vs run
χ² / ndf 51.53 / 45
p0 −10.89 ± 705.3
pull
Entries 46
Mean 150.1
Std Dev 0


pull1D
Entries 46
Mean 0.02583
Std Dev 1.058


asym_sam7_dit_correction_rms vs run
χ² / ndf 3.831e+04 / 45
p0 467.8 ± 0.4987
800
700
600
500
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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6135. 2
6135. 3
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6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
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6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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6161. 4
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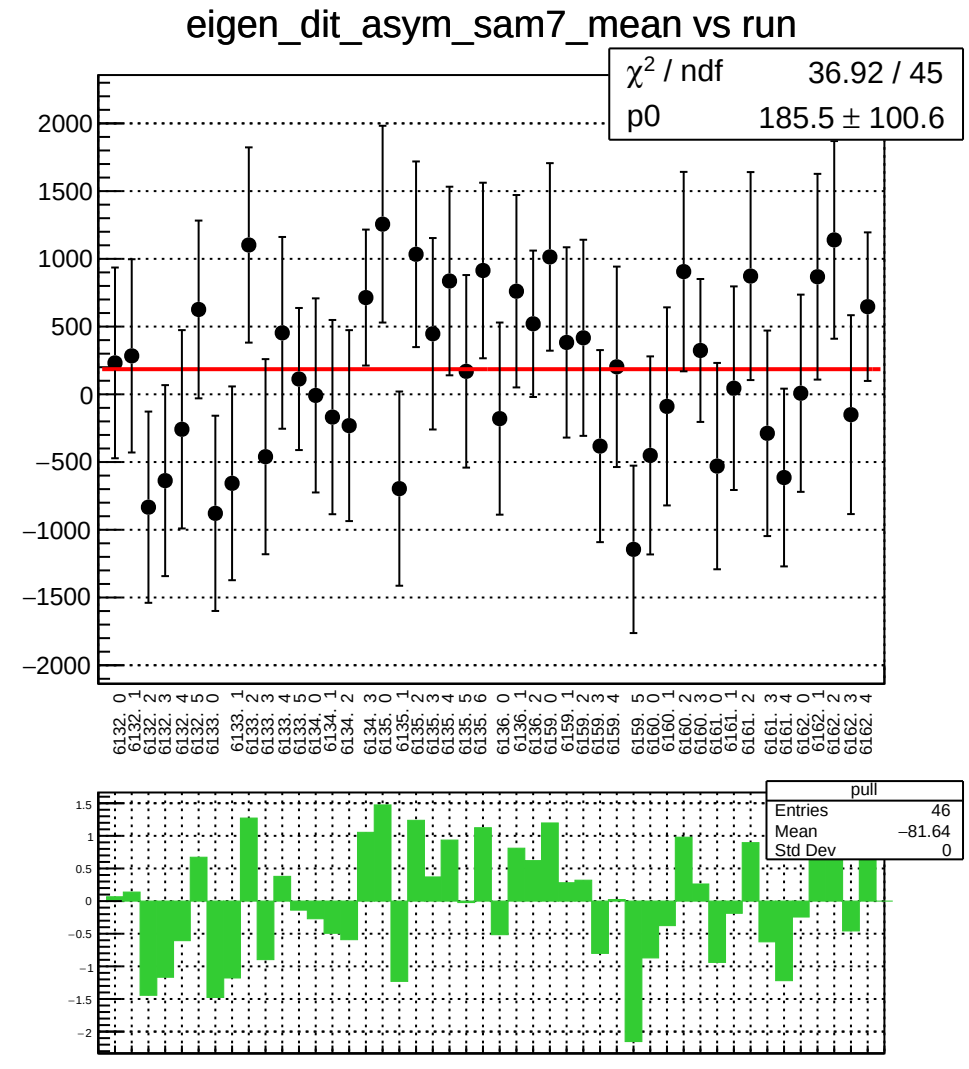
6162. 3
6162. 4


eigen_dit_asym_sam7_mean vs run
χ^2 / ndf 36.92 / 45
p0 185.5 ± 100.6
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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
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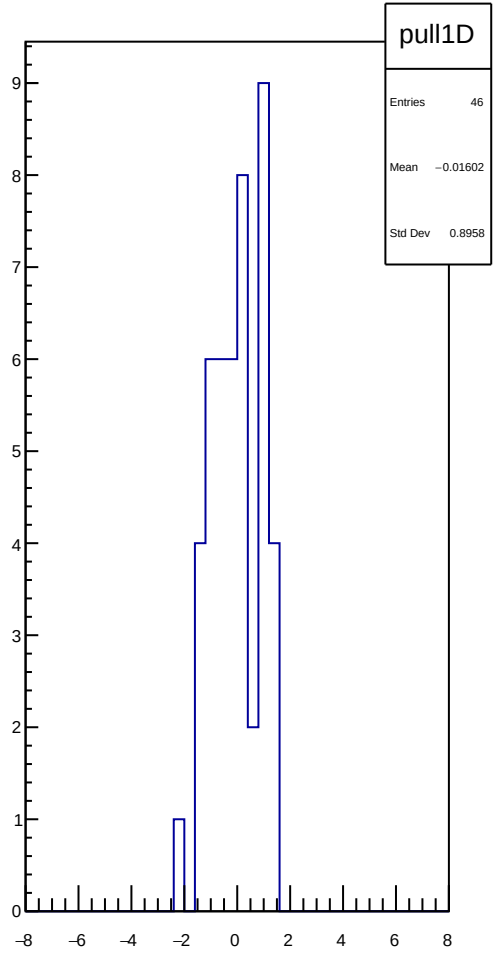
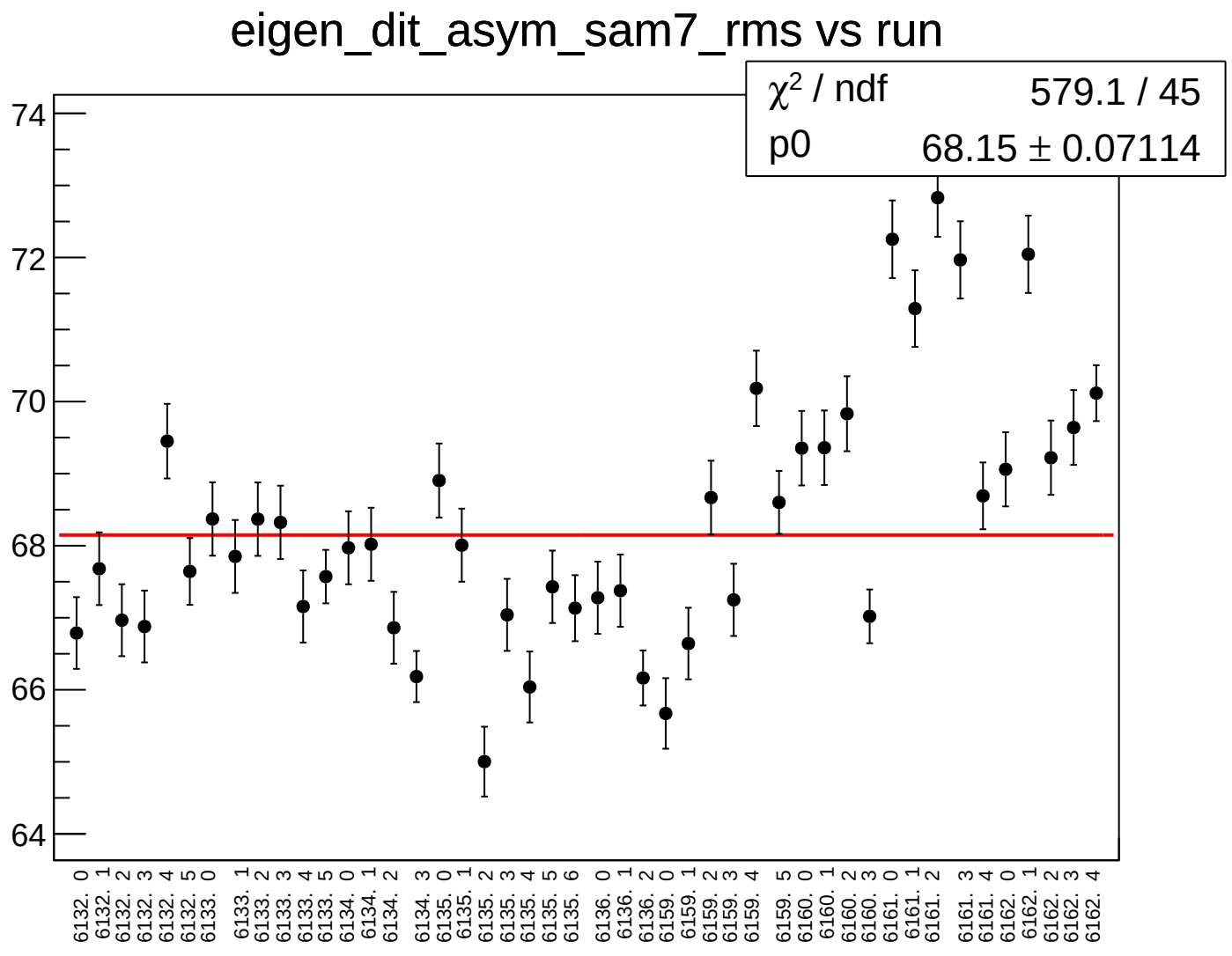
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −81.64
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean −0.01602
Std Dev 0.8958
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam7_rms vs run
χ² / ndf 579.1 / 45
p0 68.15 ± 0.07114
74
72
70
68
66
64
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 3
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6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
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6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
6161. 3
6161. 4
6162. 0
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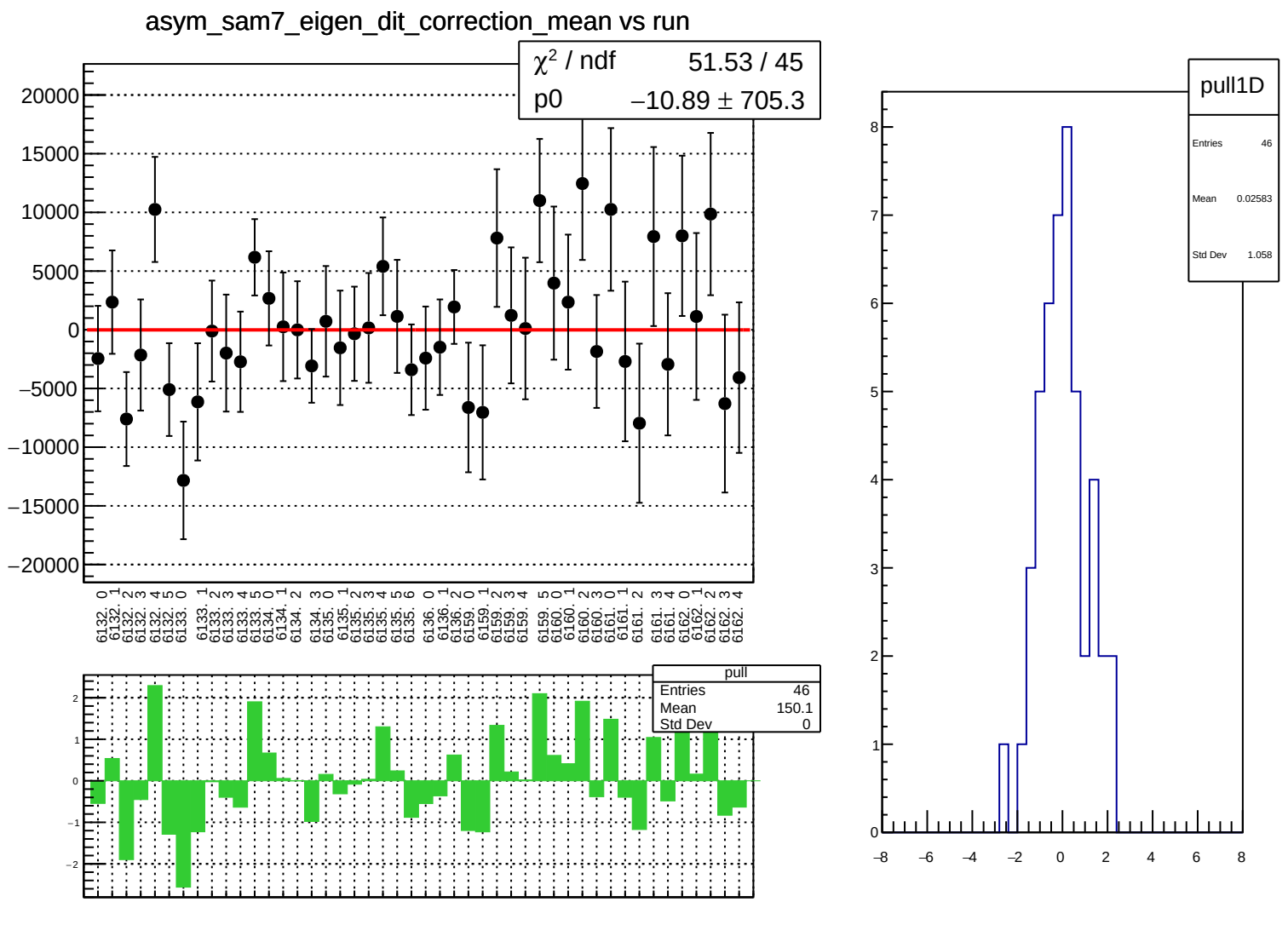
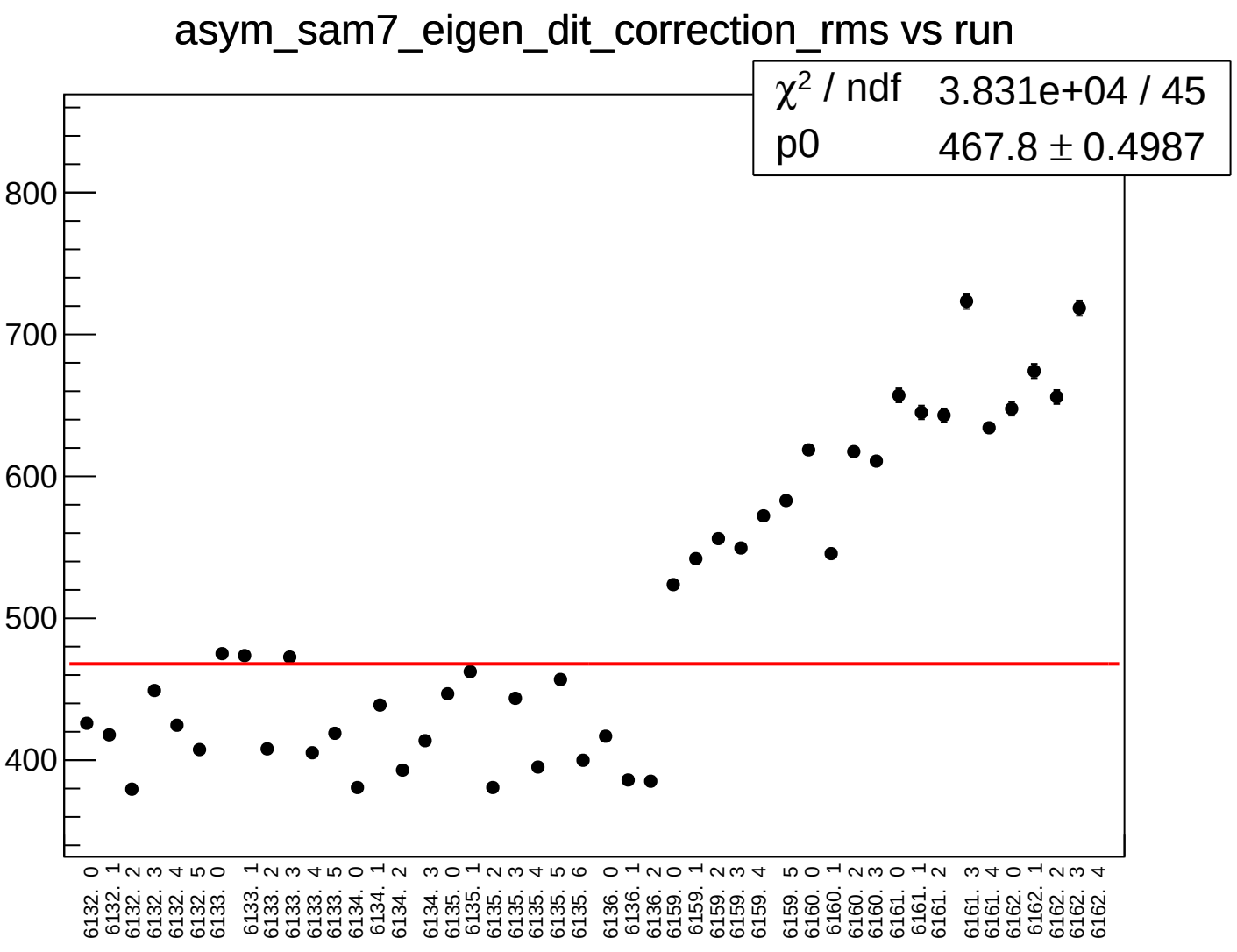
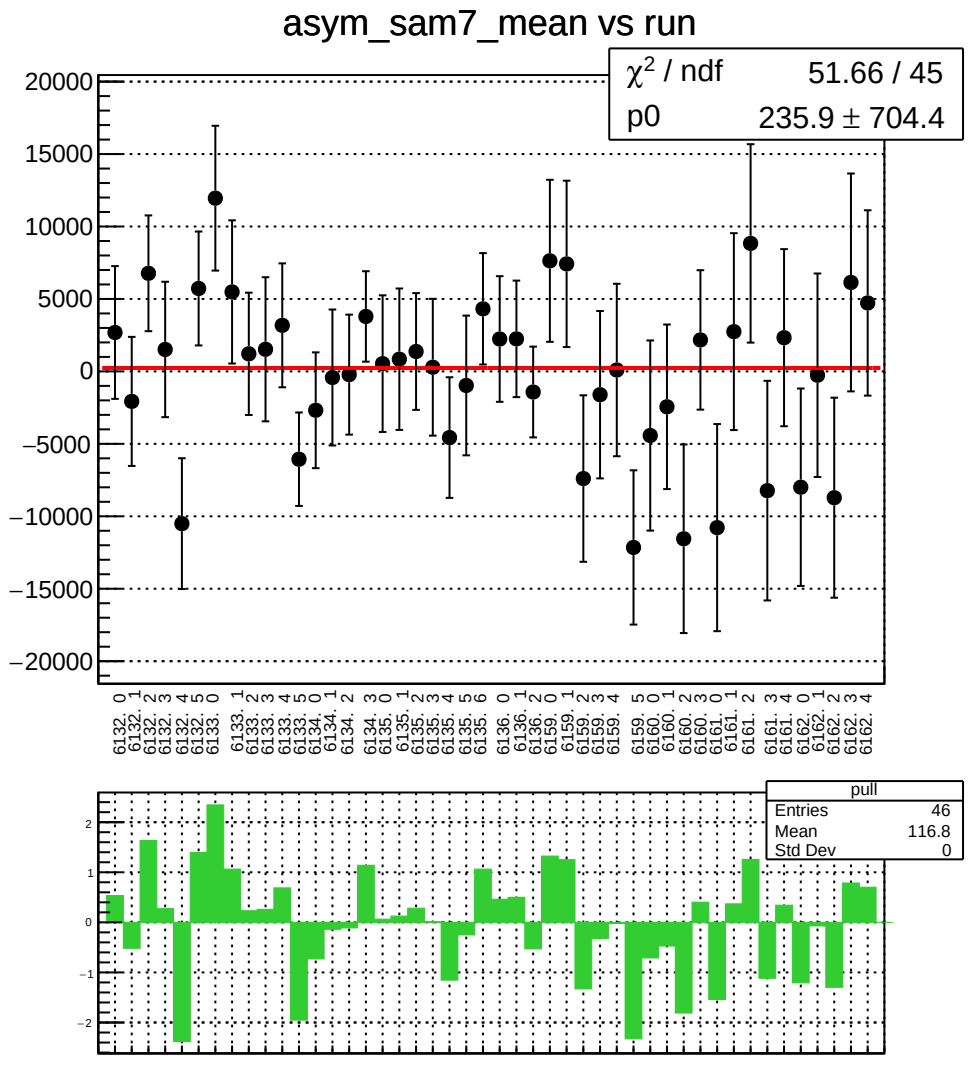
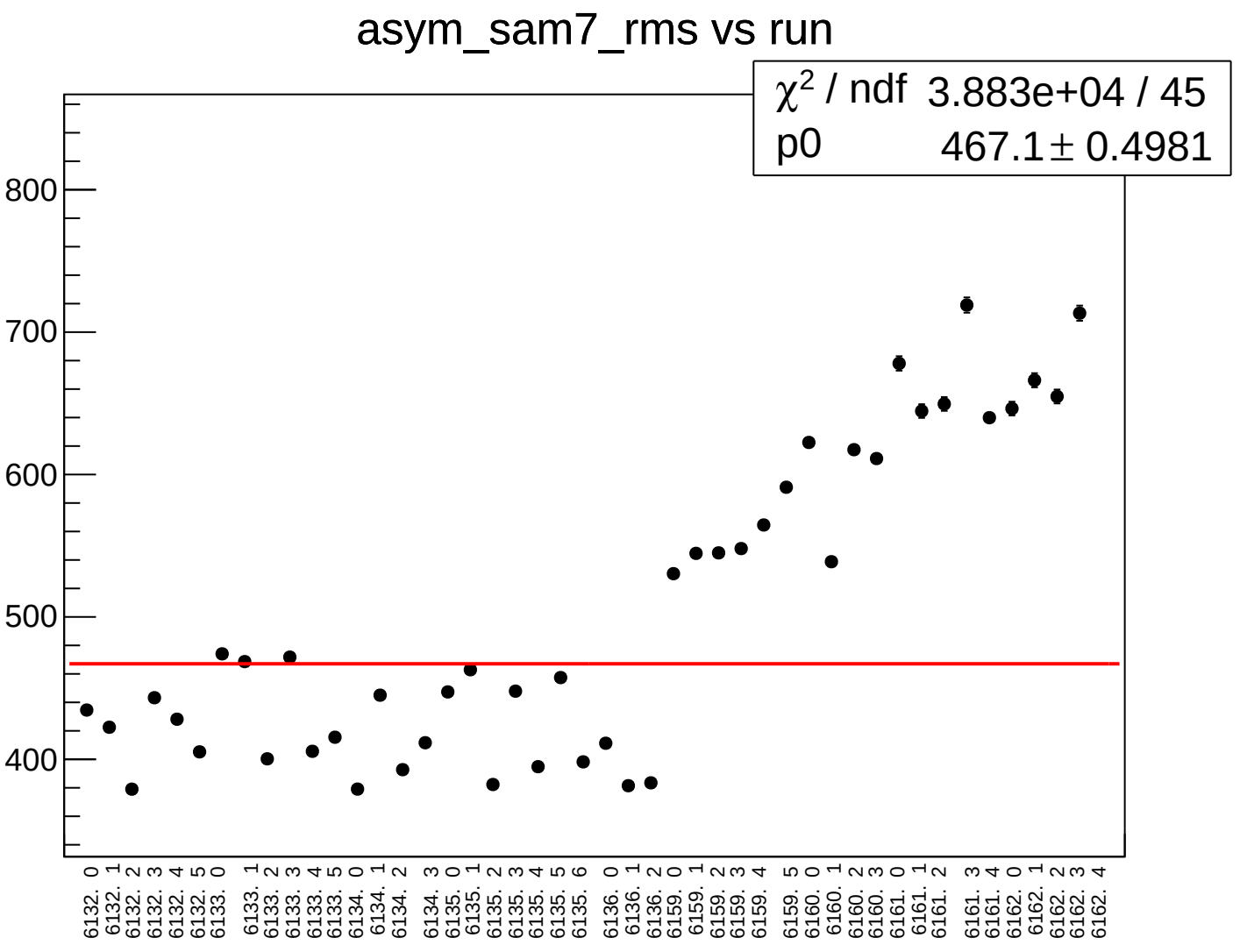
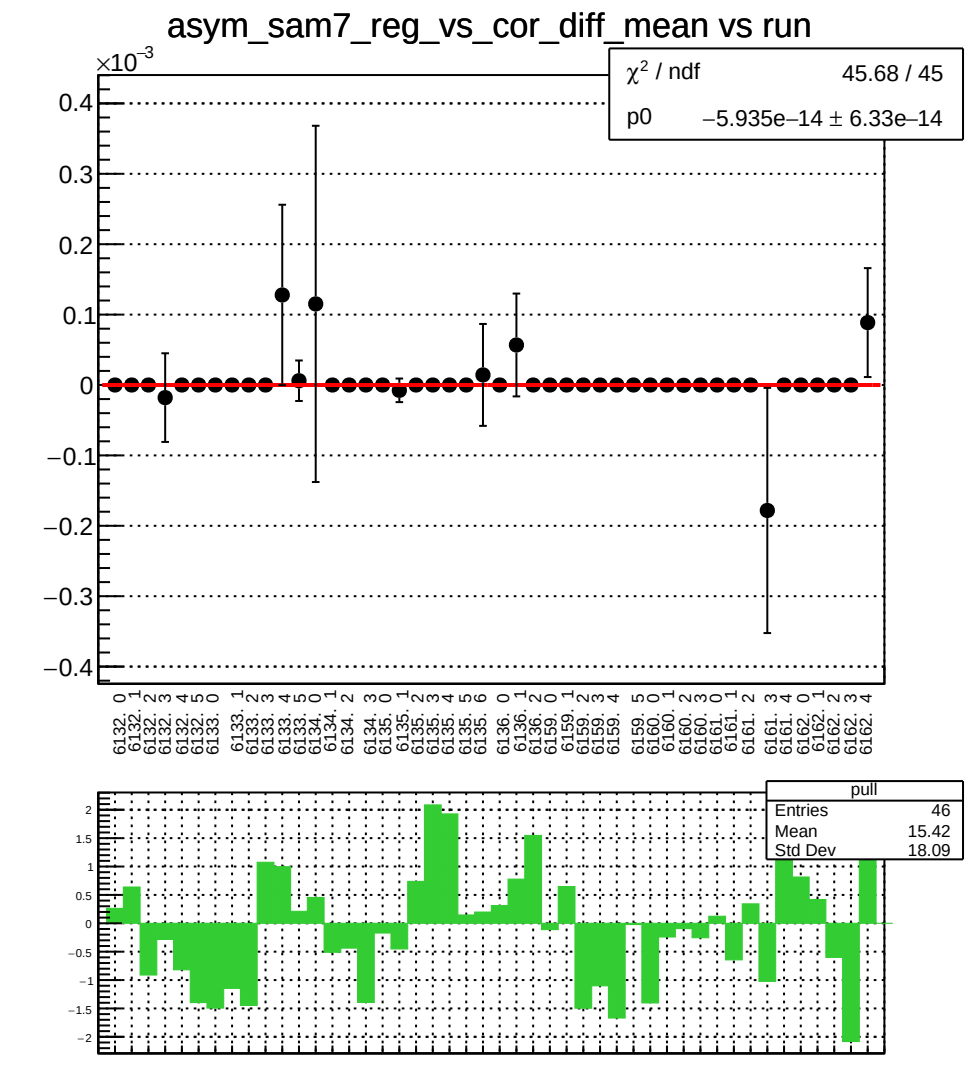
6162. 3
6162. 4

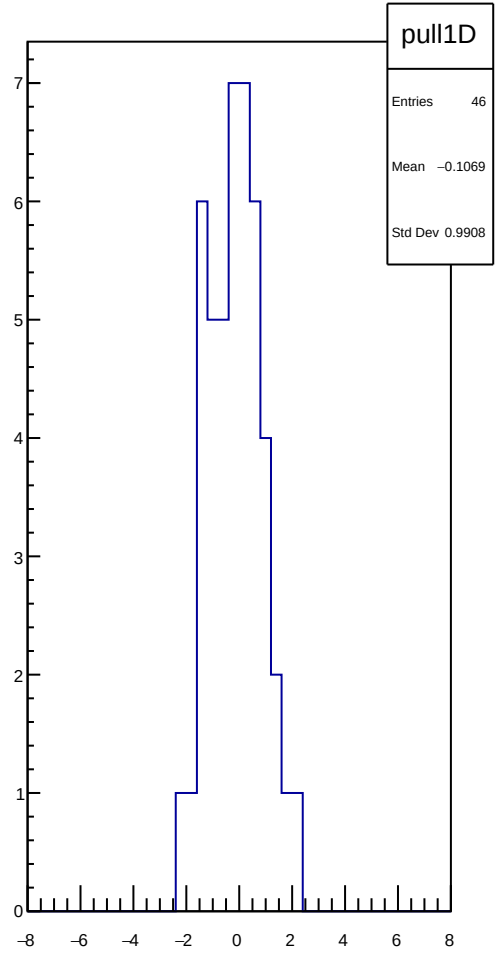

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 51.53 / 45
p0 −10.89 ± 705.3
pull
Entries 46
Mean 150.1
Std Dev 0
pull1D
Entries 46
Mean 0.02583
Std Dev 1.058

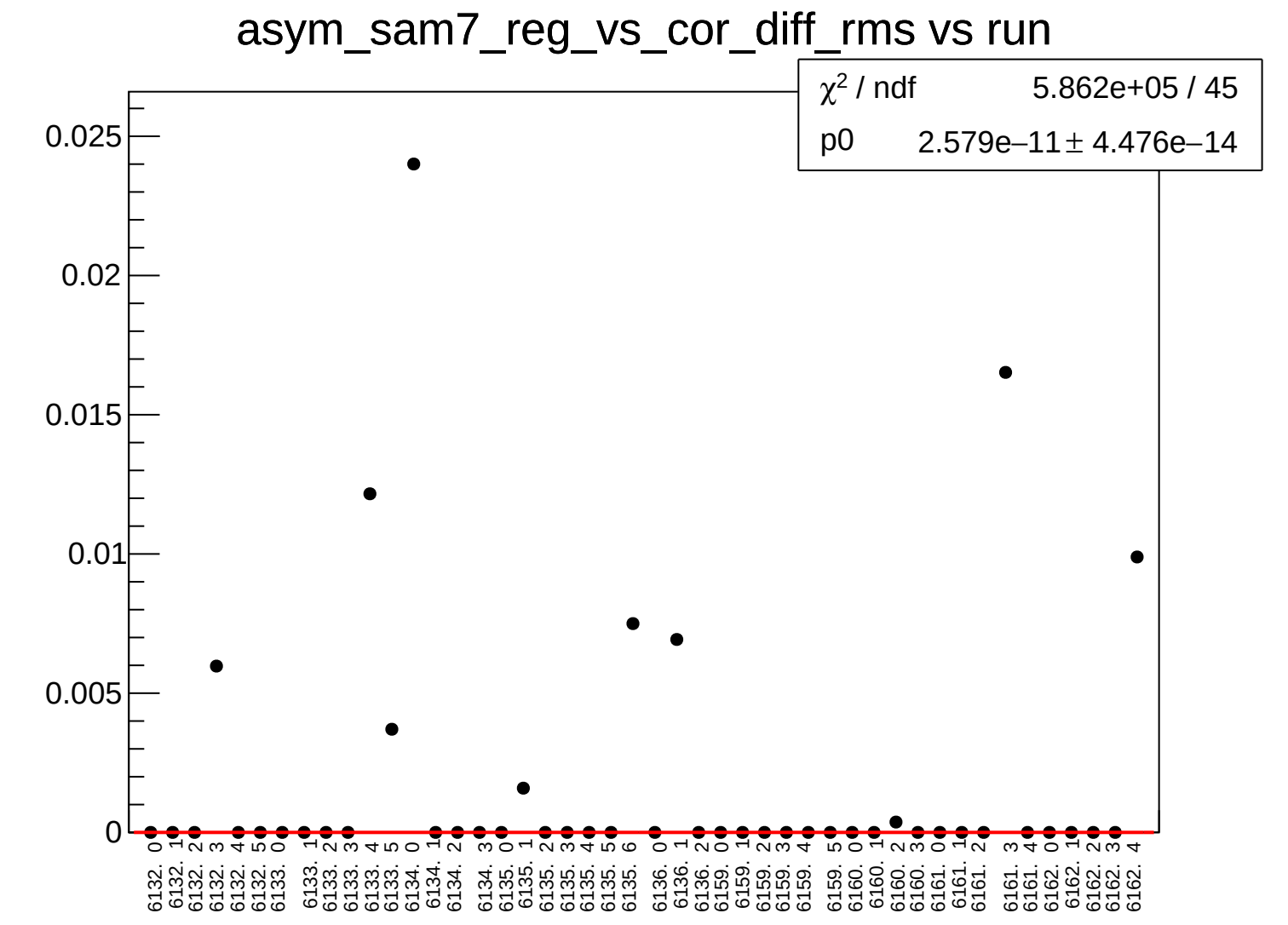

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 3.831e+04 / 45
p0 467.8 ± 0.4987
800
700
600
500
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

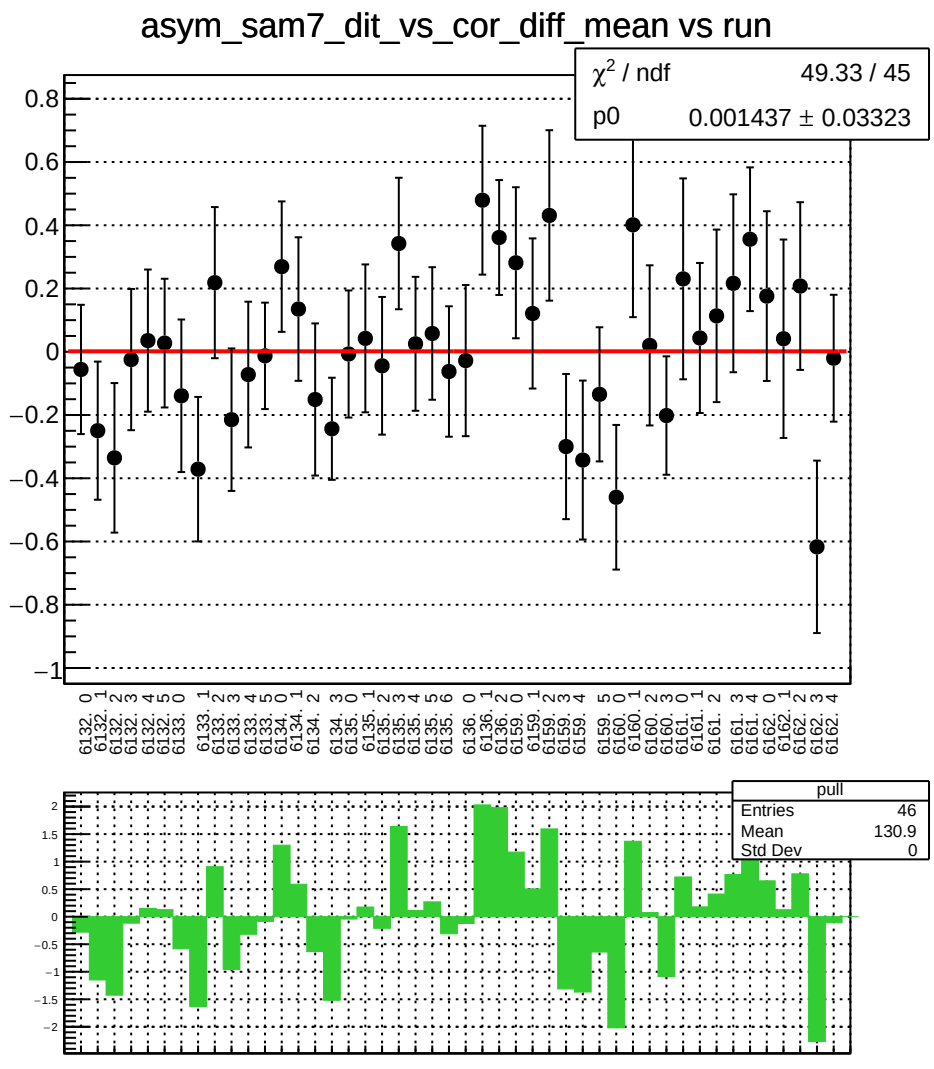

asym_sam7_mean vs run
χ² / ndf 51.66 / 45
p0 235.9 ± 704.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 116.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.03235
Std Dev 1.059
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

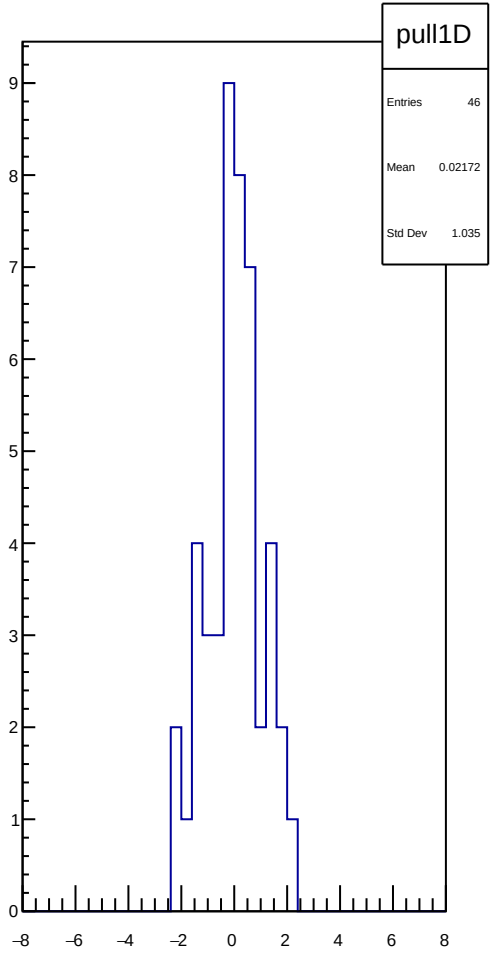

asym_sam7_rms vs run
χ² / ndf 3.883e+04 / 45
p0 467.1 ± 0.4981
800
700
600
500
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

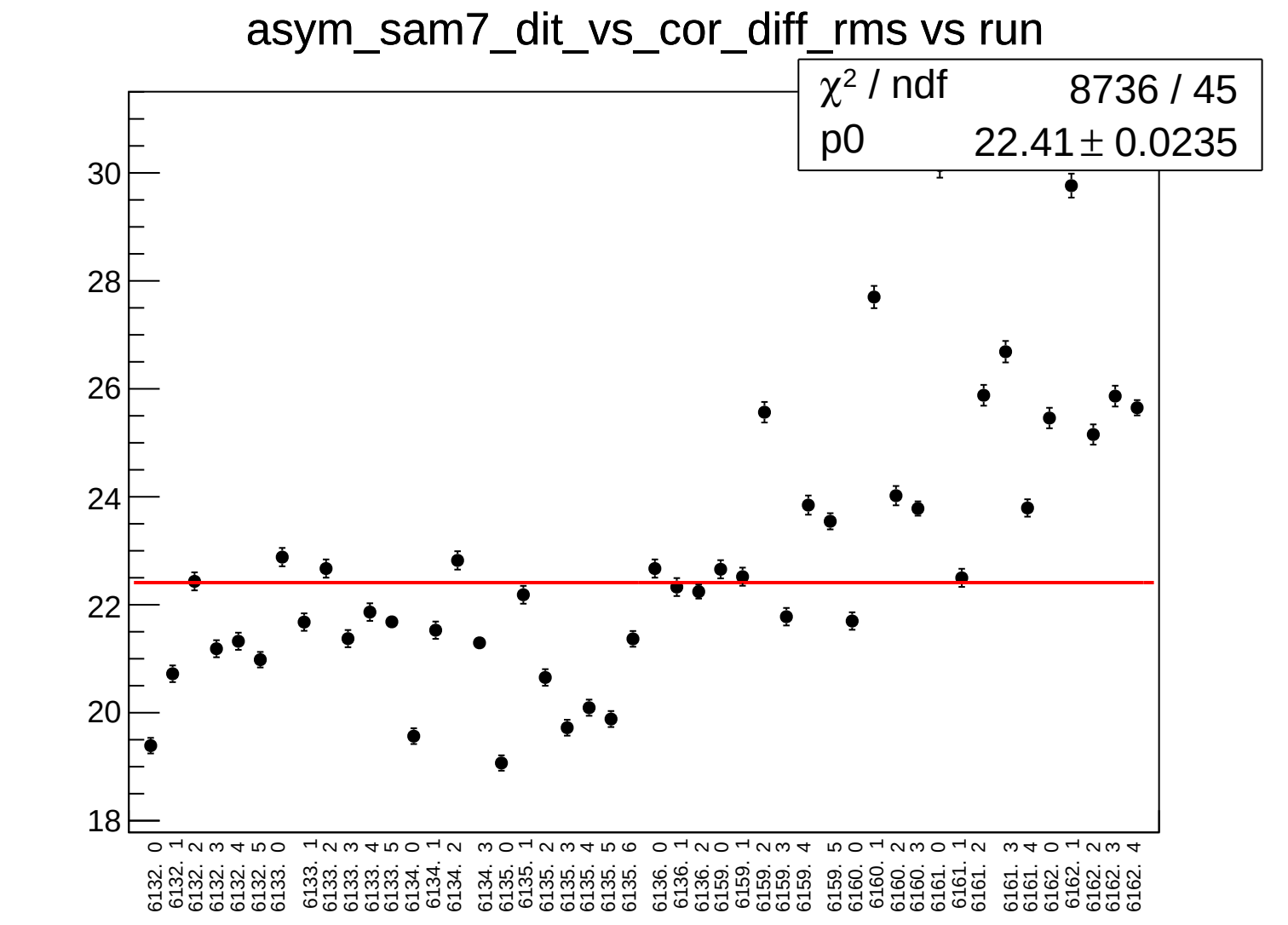

asym_sam7_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 45.68 / 45
p0 −5.935e−14 ± 6.33e−14
pull
Entries 46
Mean 15.42
Std Dev 18.09

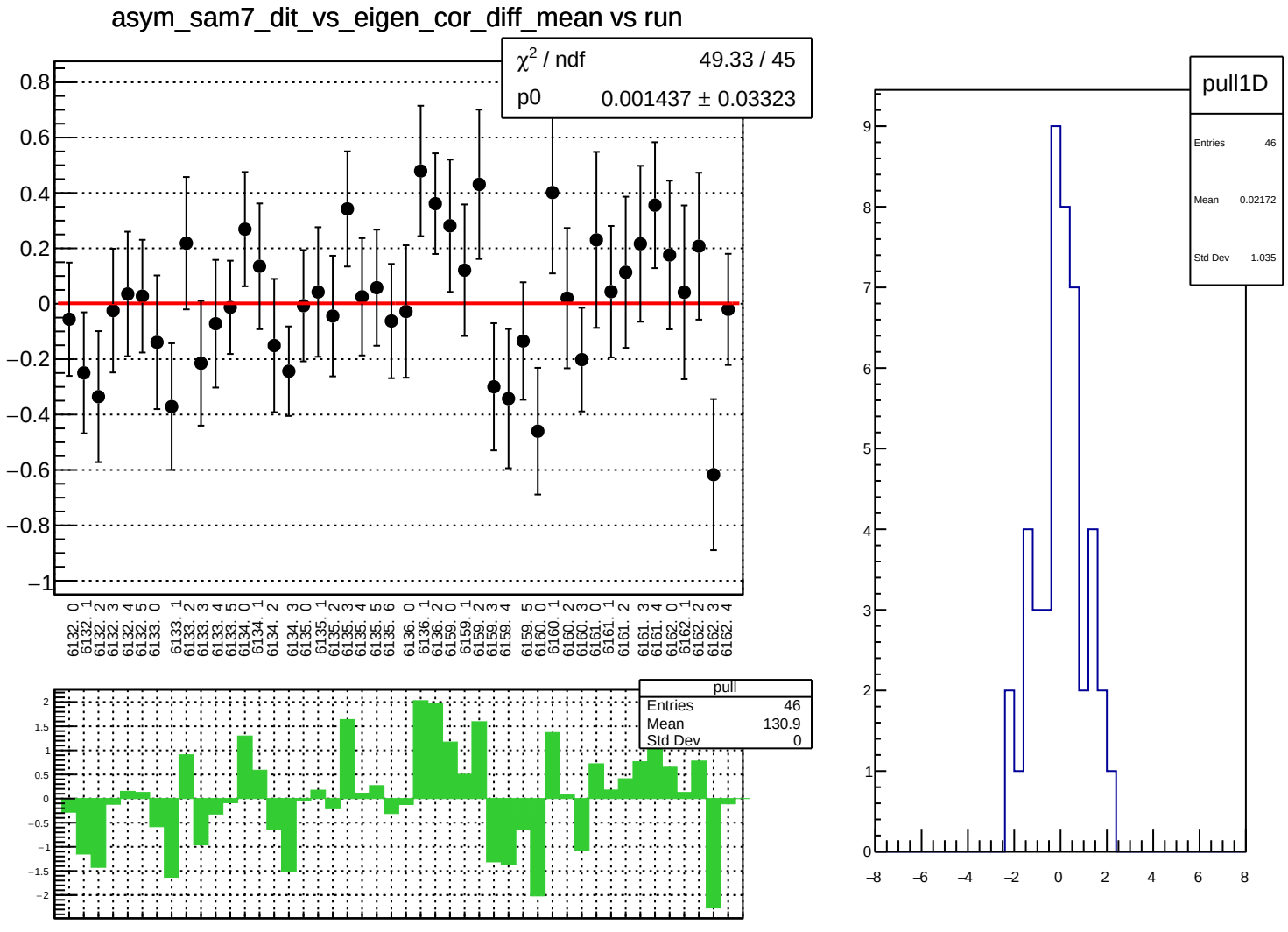

pull1D
Entries 46
Mean −0.1069
Std Dev 0.9908

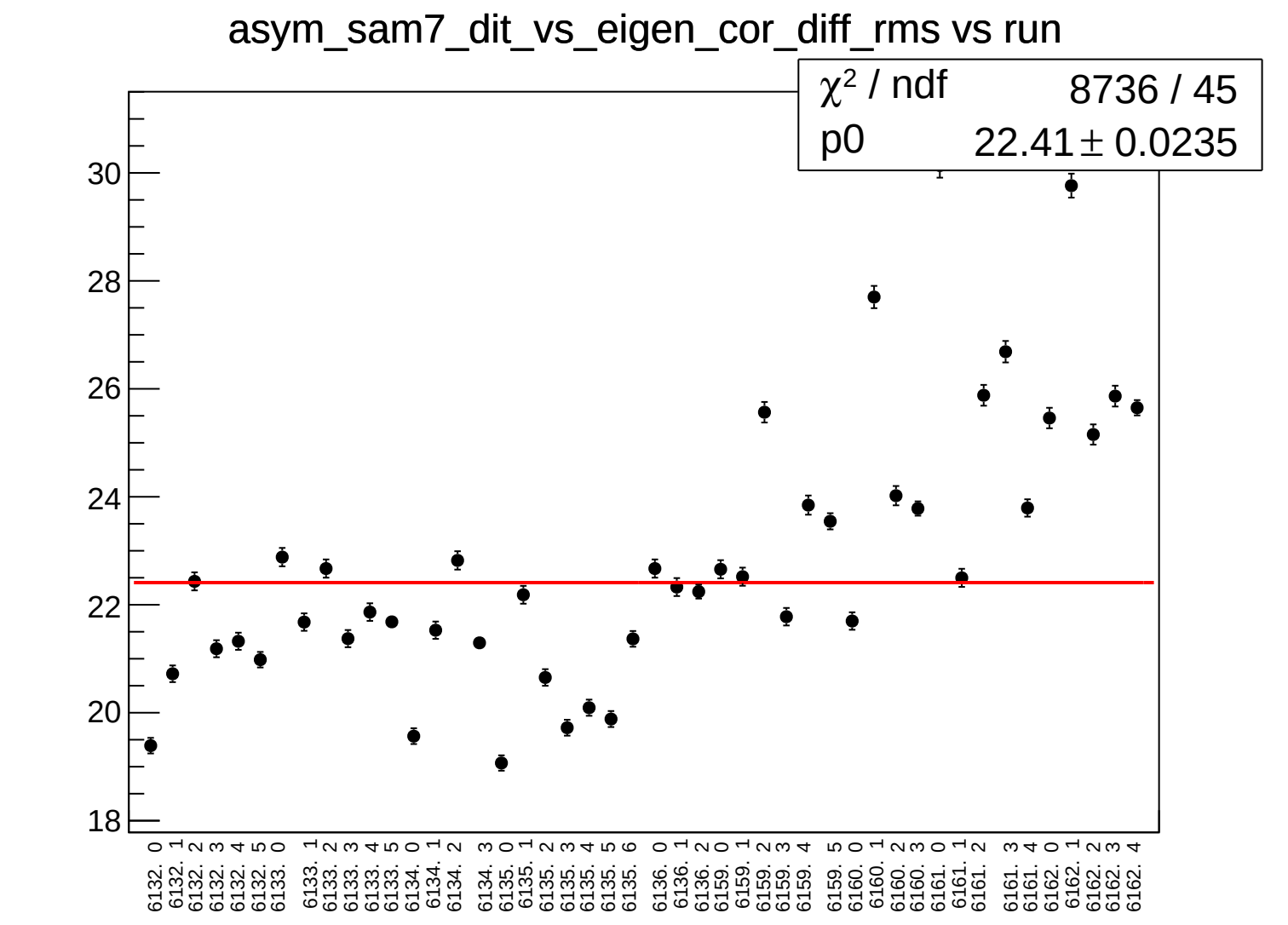

asym_sam7_reg_vs_cor_diff_rms vs run
χ2 / ndf 5.862e+05 / 45
p0 2.579e−11 ± 4.476e−14
0.025
0.02
0.015
0.01
0.005
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

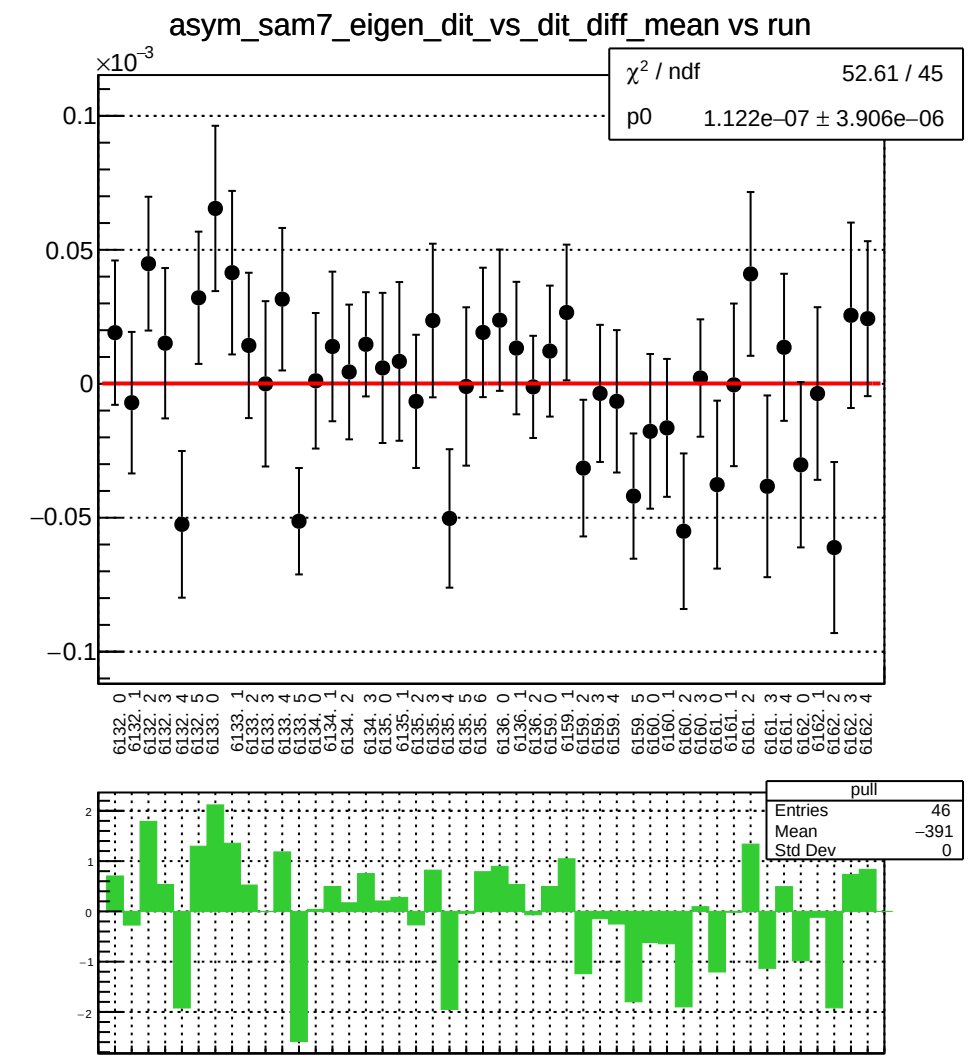

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 49.33 / 45
p0 0.001437 ± 0.03323
pull
Entries 46
Mean 130.9
Std Dev 0

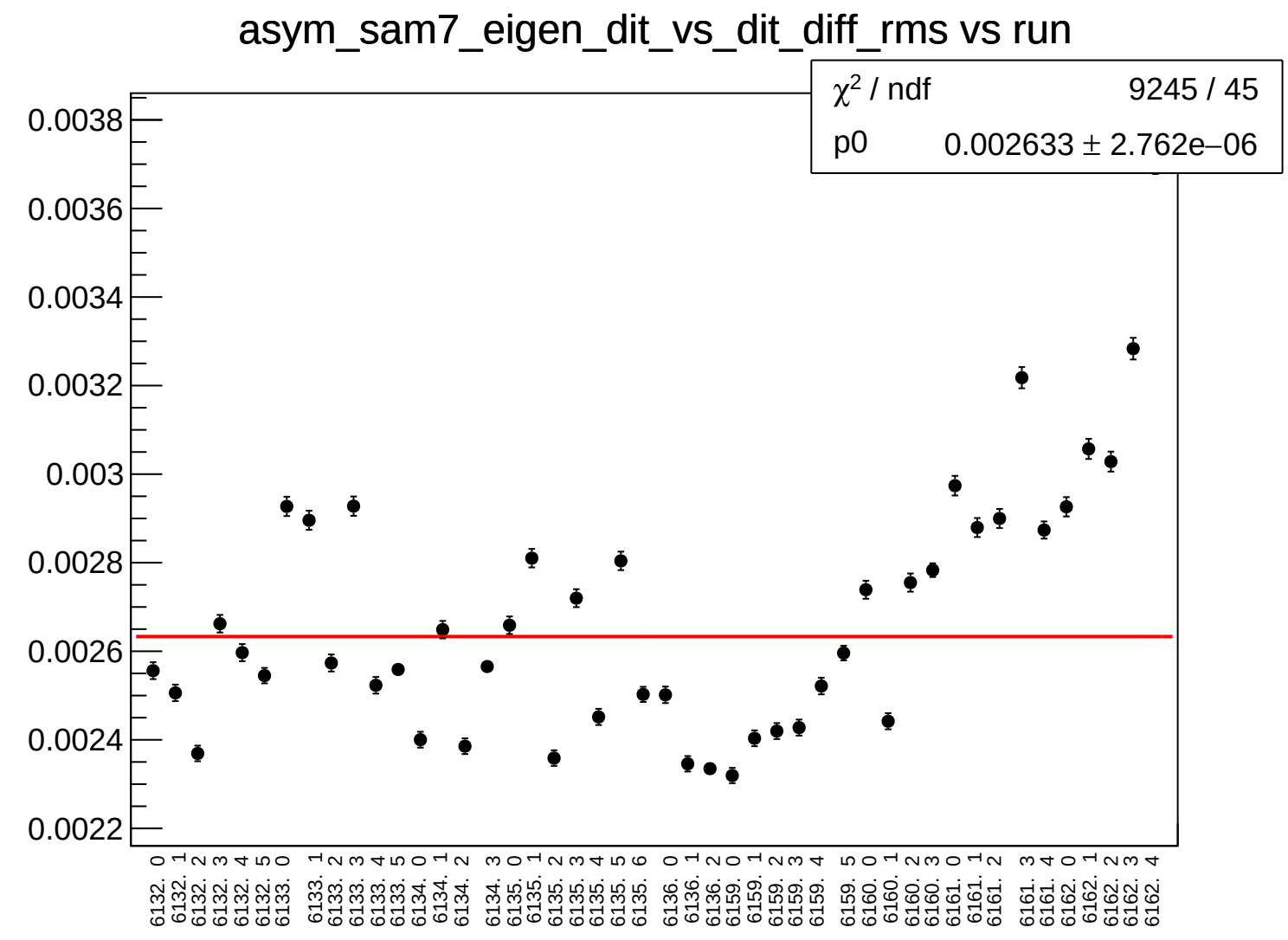

pull1D
Entries 46
Mean 0.02172
Std Dev 1.035

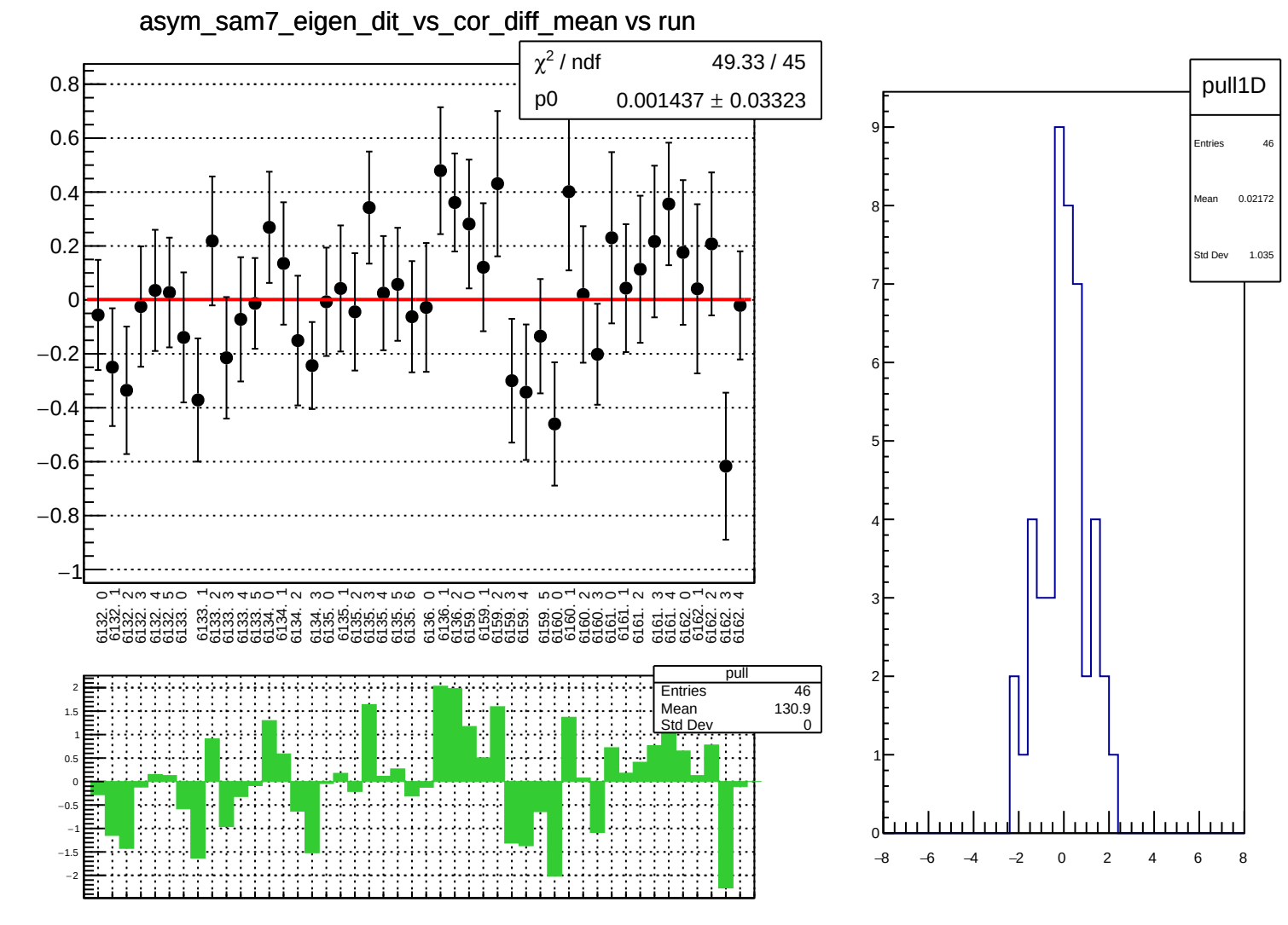

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 8736 / 45
p0 22.41 ± 0.0235
30
28
26
24
22
20
18
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

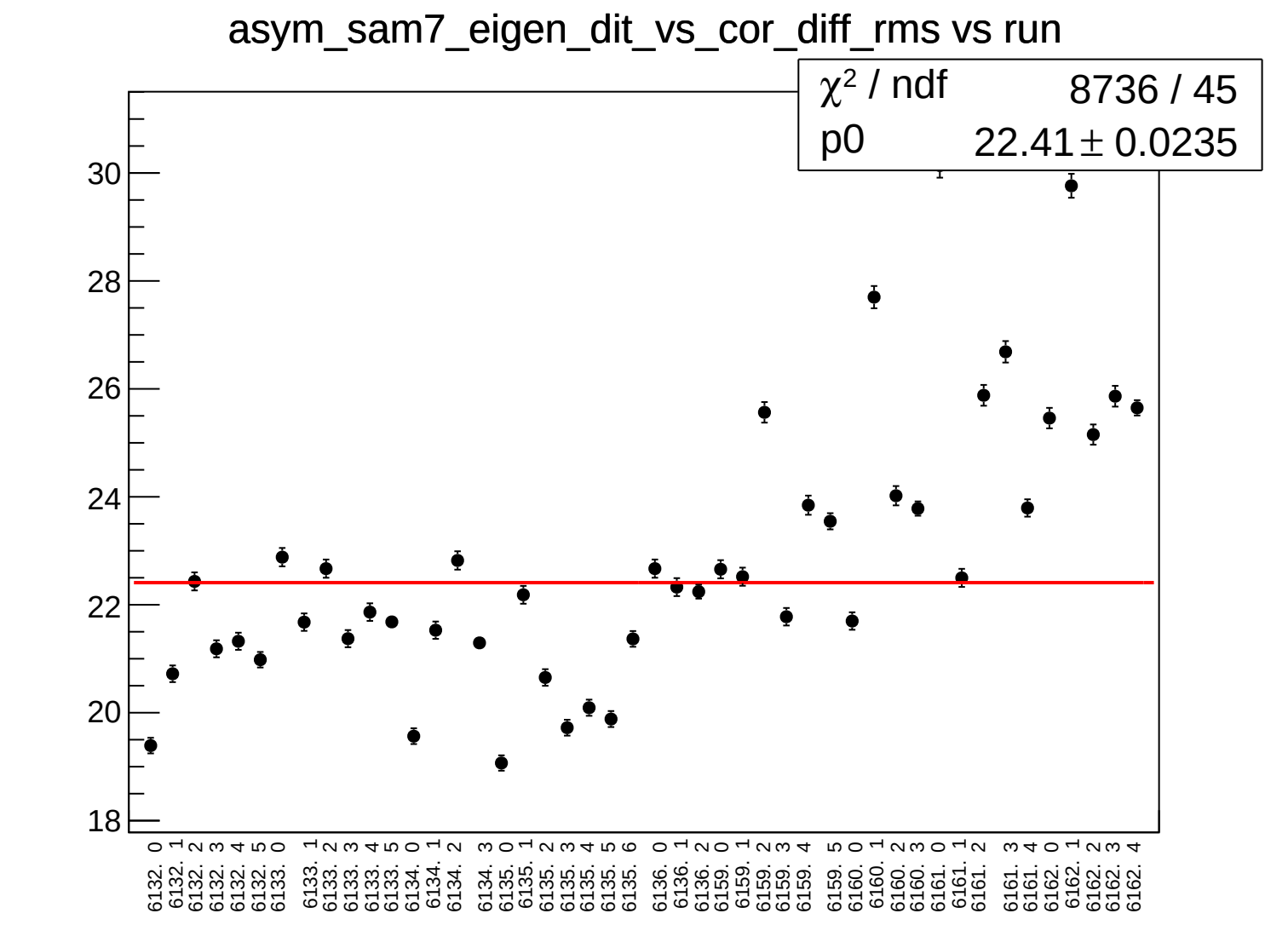

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.33 / 45
p0 0.001437 ± 0.03323
pull
Entries 46
Mean 130.9
Std Dev 0
pull1D
Entries 46
Mean 0.02172
Std Dev 1.035

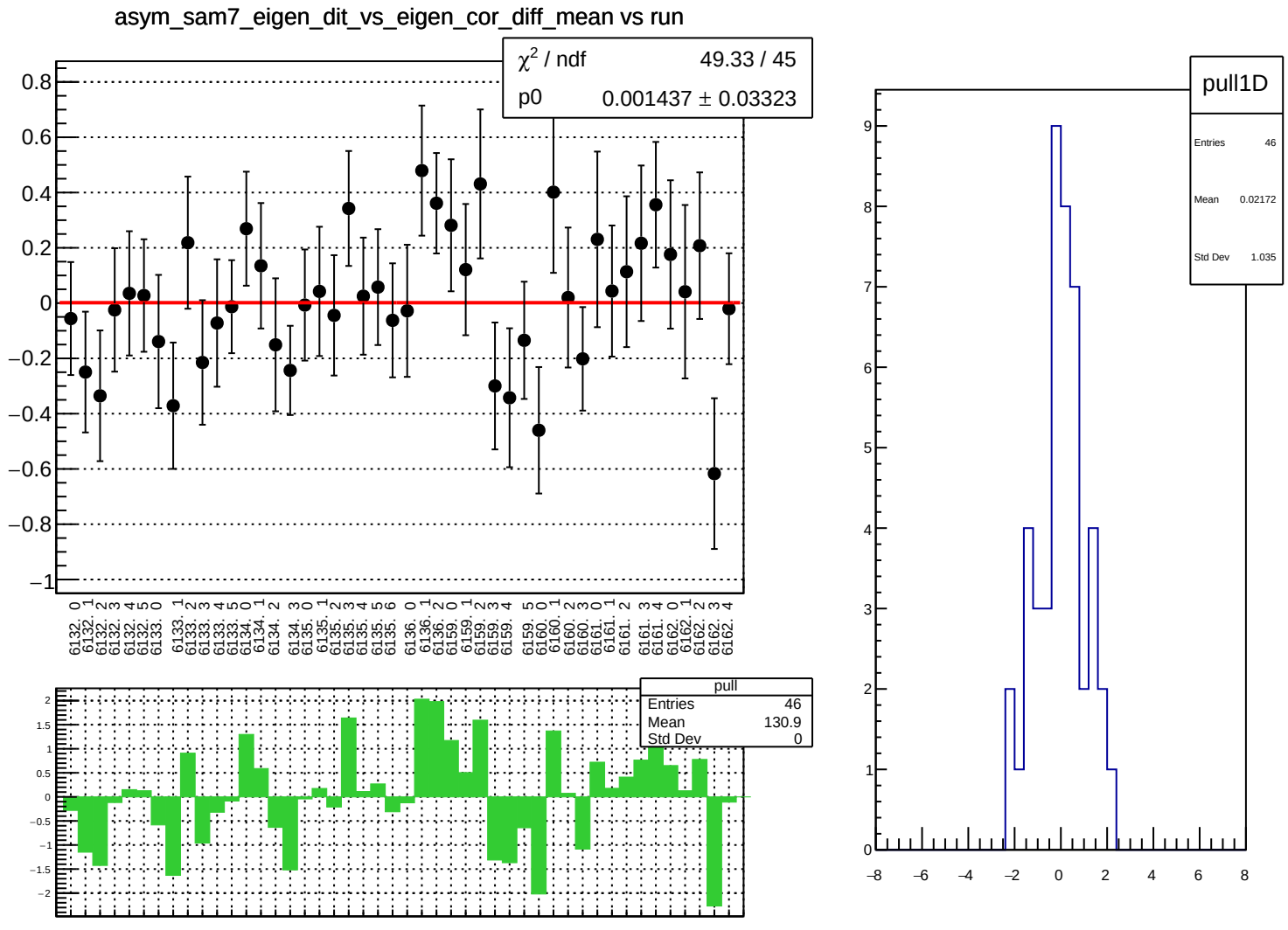

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8736 / 45
p0 22.41 ± 0.0235
30
28
26
24
22
20
18
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

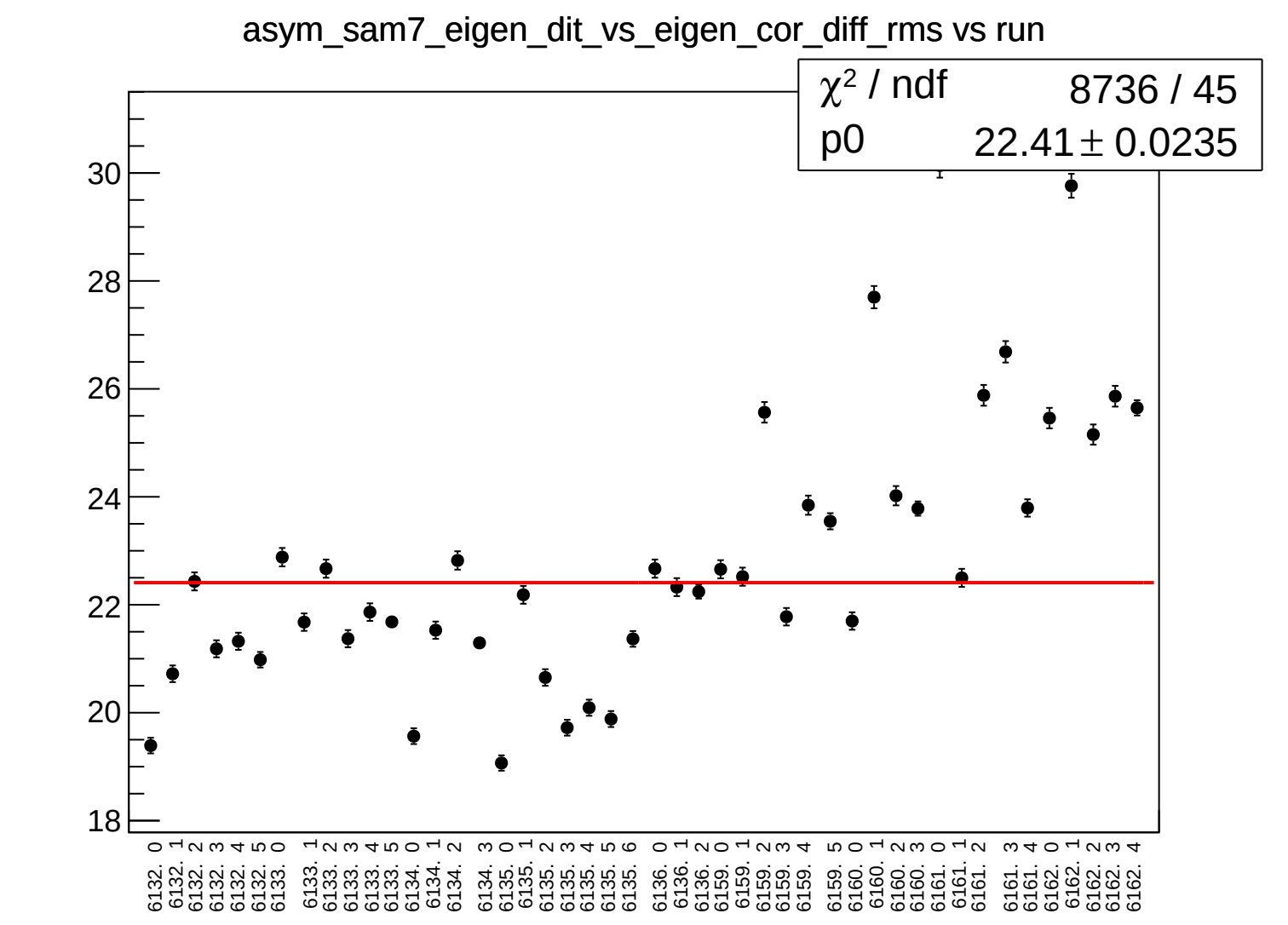

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 52.61 / 45
p0 1.122e−07 ± 3.906e−06
0.1
0.05
0
−0.05
−0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −391
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.009804
Std Dev 1.069
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

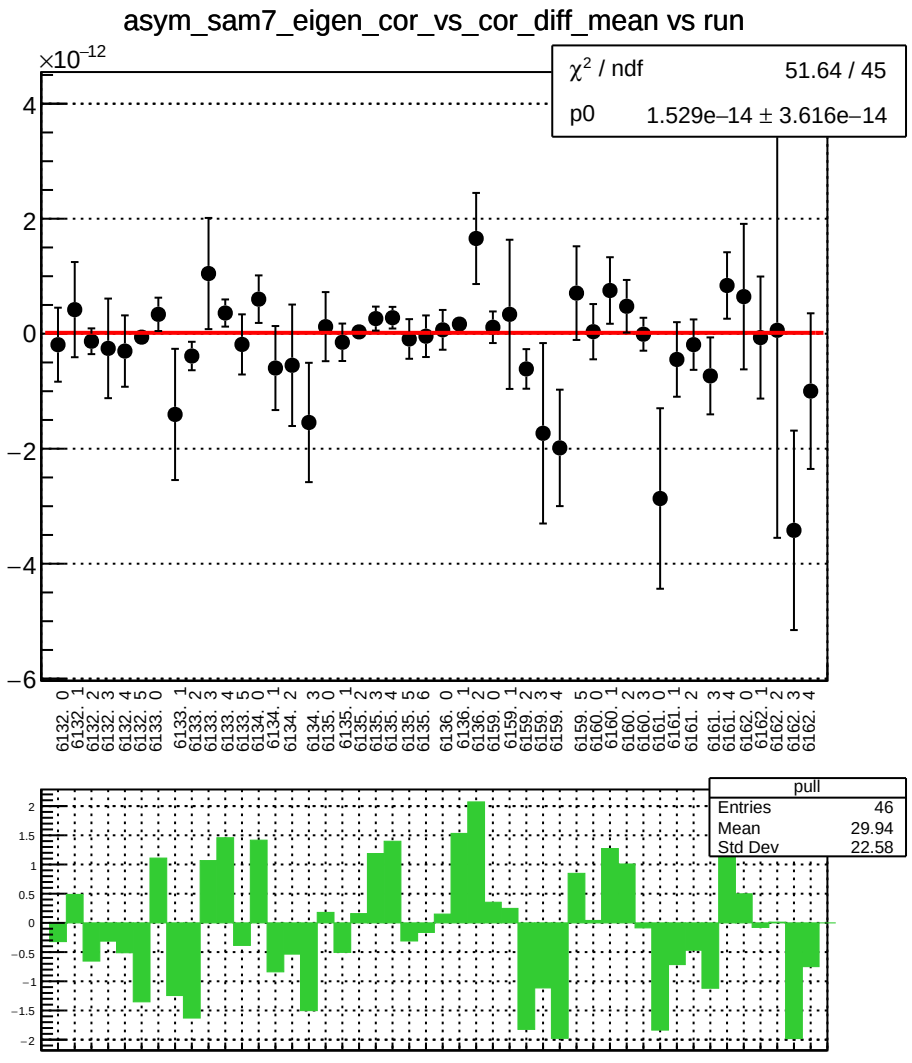

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9245 / 45
p0 0.002633 ± 2.762e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

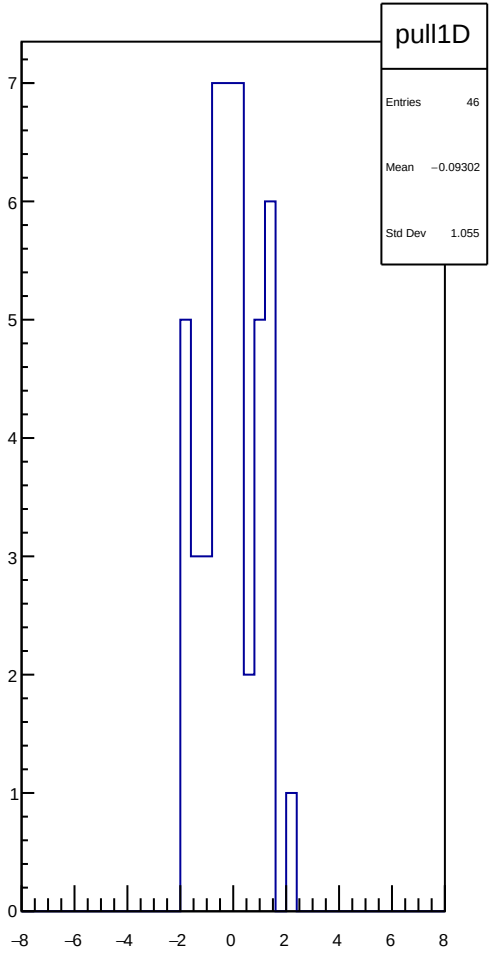

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 49.33 / 45
p0 0.001437 ± 0.03323
pull
Entries 46
Mean 130.9
Std Dev 0
pull1D
Entries 46
Mean 0.02172
Std Dev 1.035

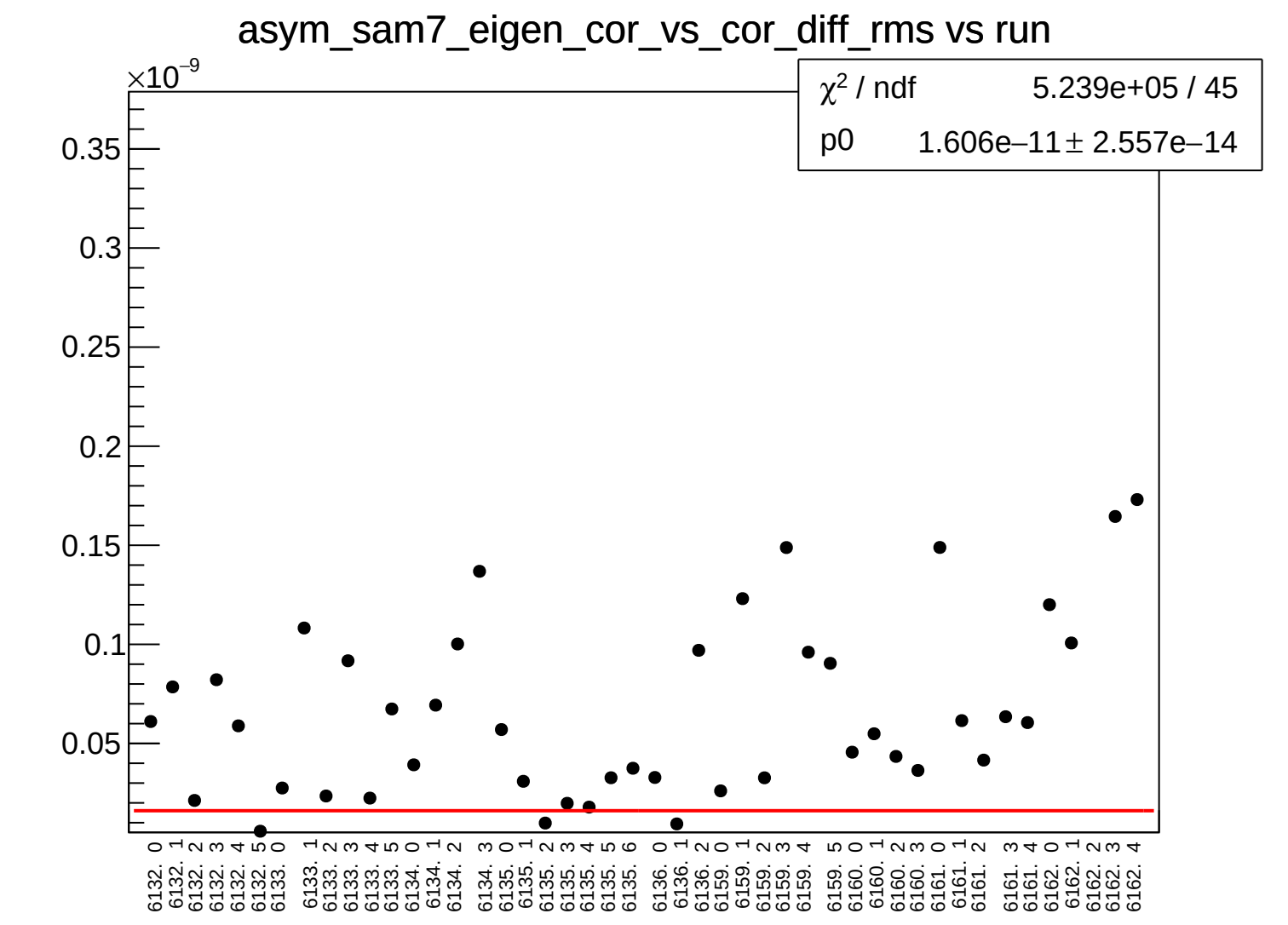

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8736 / 45
p0 22.41 ± 0.0235
30
28
26
24
22
20
18
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

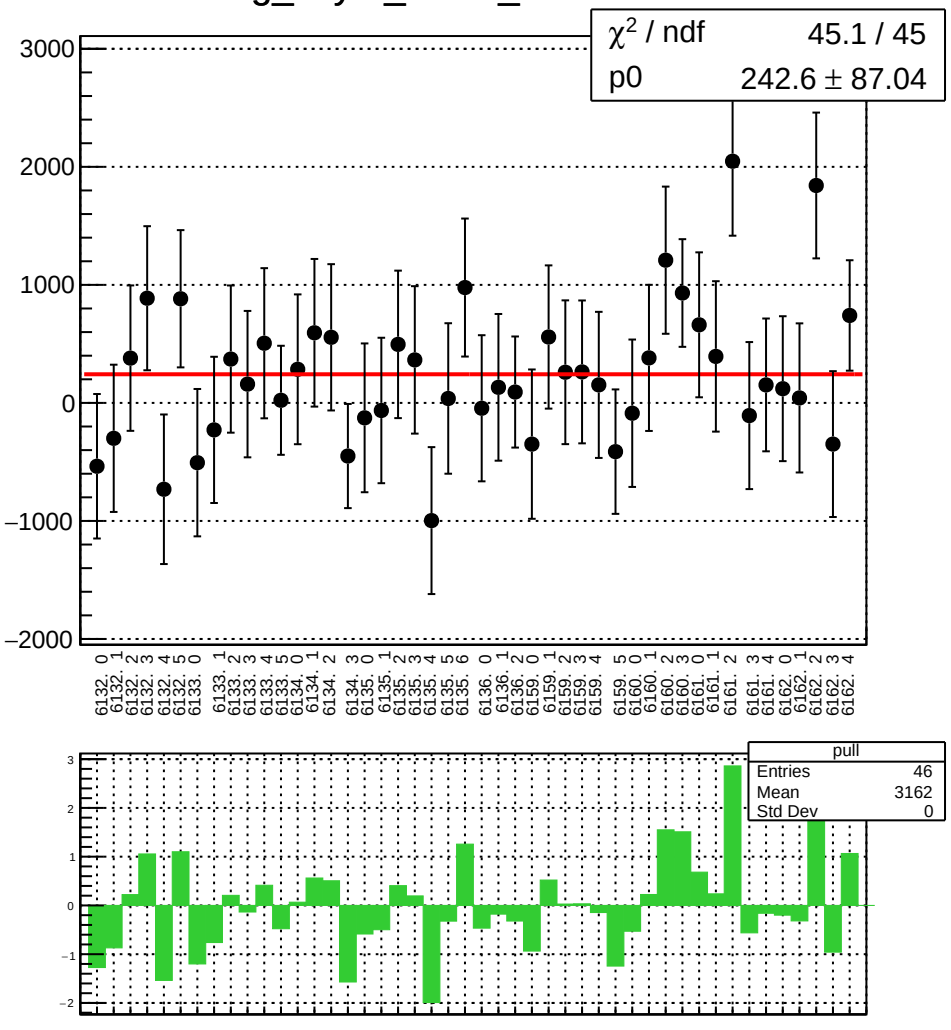

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.33 / 45
p0 0.001437 ± 0.03323
pull
Entries 46
Mean 130.9
Std Dev 0
pull1D
Entries 46
Mean 0.02172
Std Dev 1.035

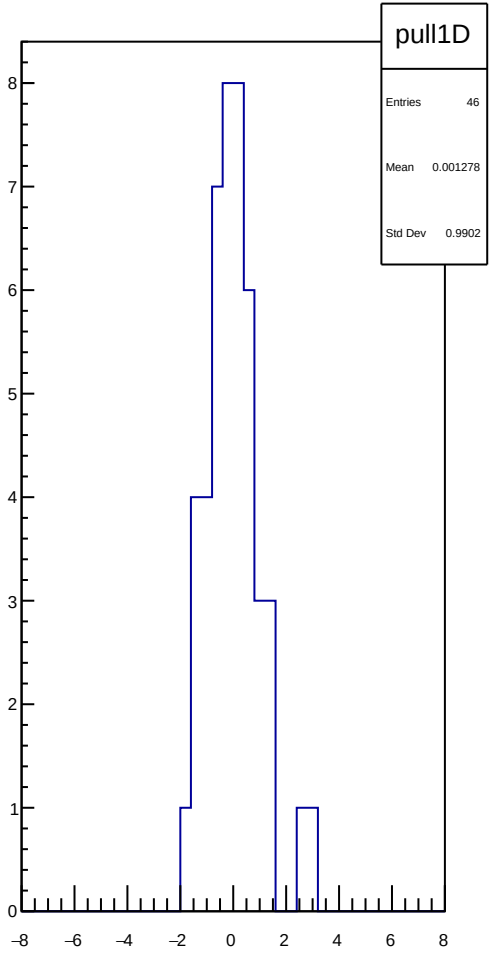

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8736 / 45
p0 22.41 ± 0.0235
30
28
26
24
22
20
18
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

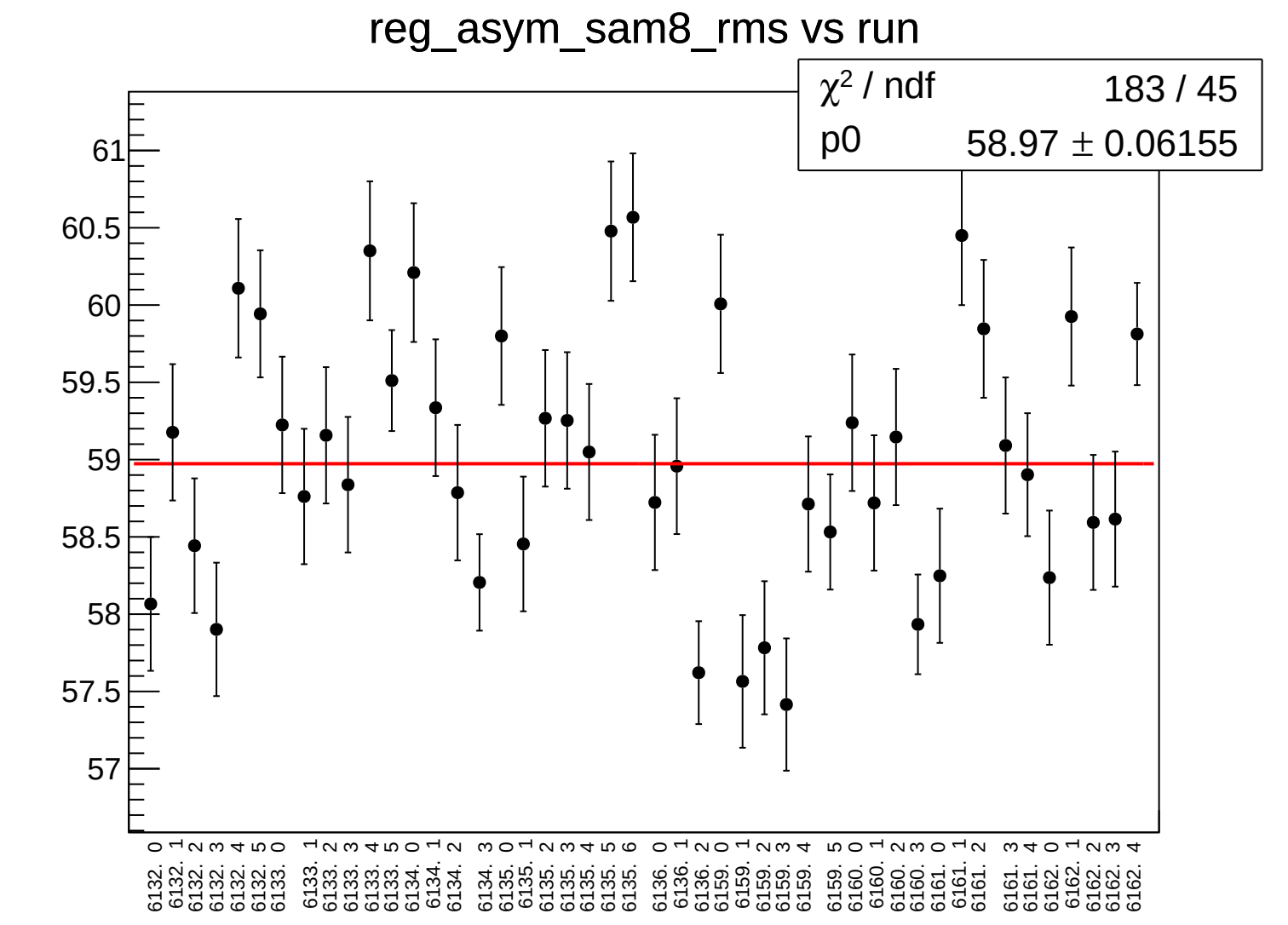

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 51.64 / 45
p0 1.529e−14 ± 3.616e−14
pull
Entries 46
Mean 29.94
Std Dev 22.58

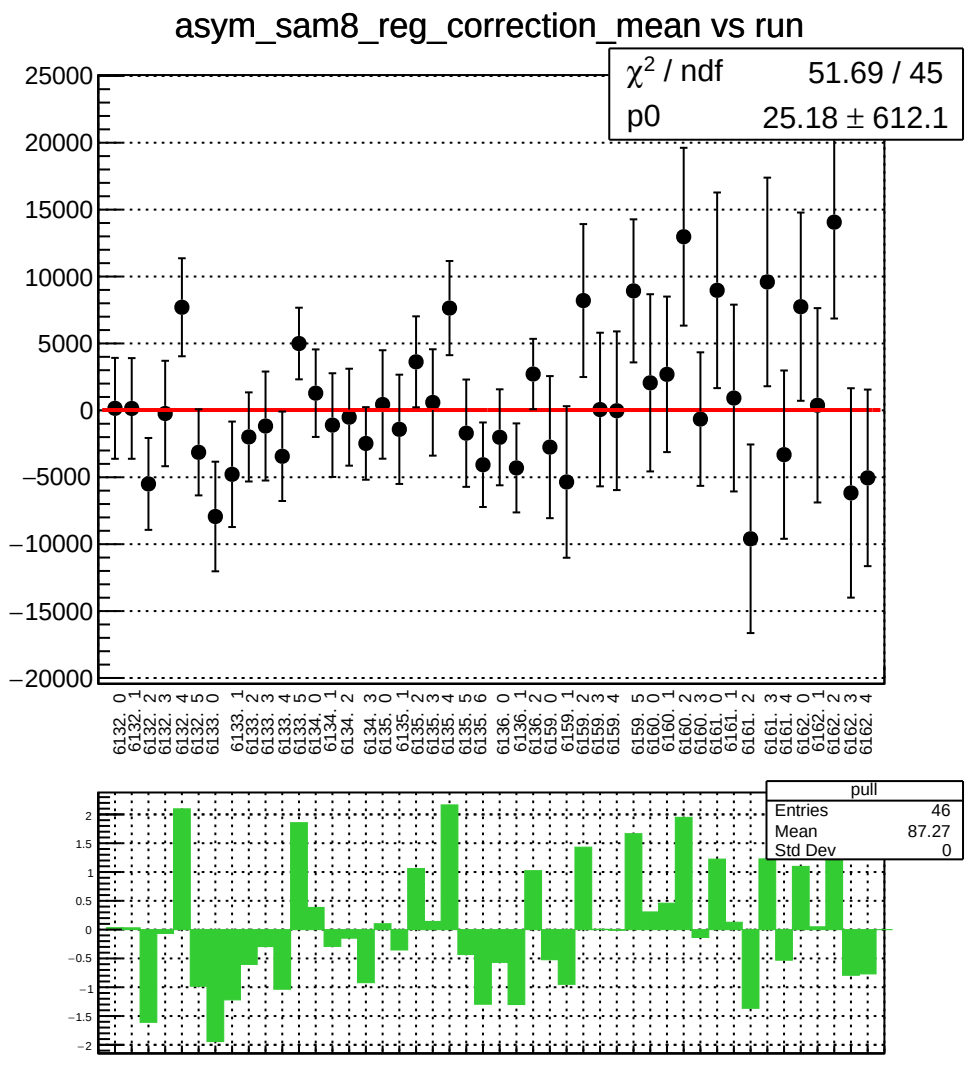

pull1D
Entries 46
Mean −0.09302
Std Dev 1.055

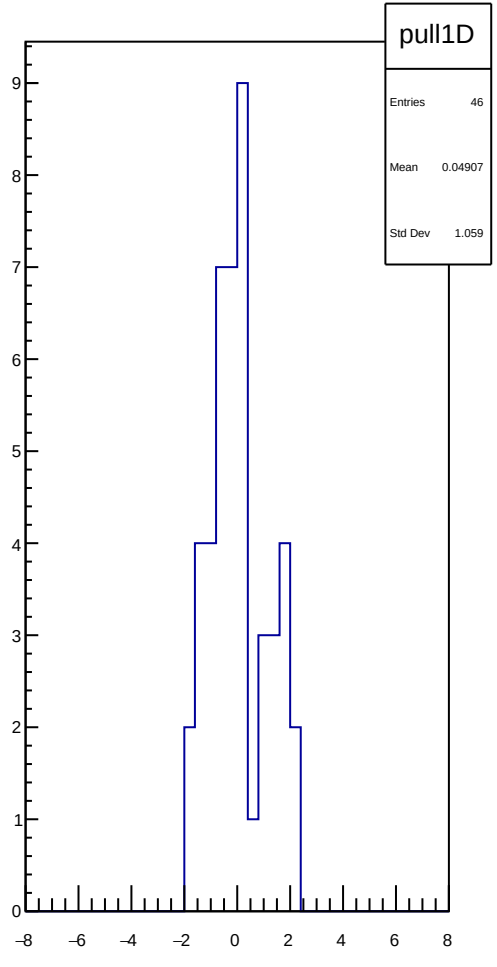

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.239e+05 / 45
p0 1.606e−11 ± 2.557e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

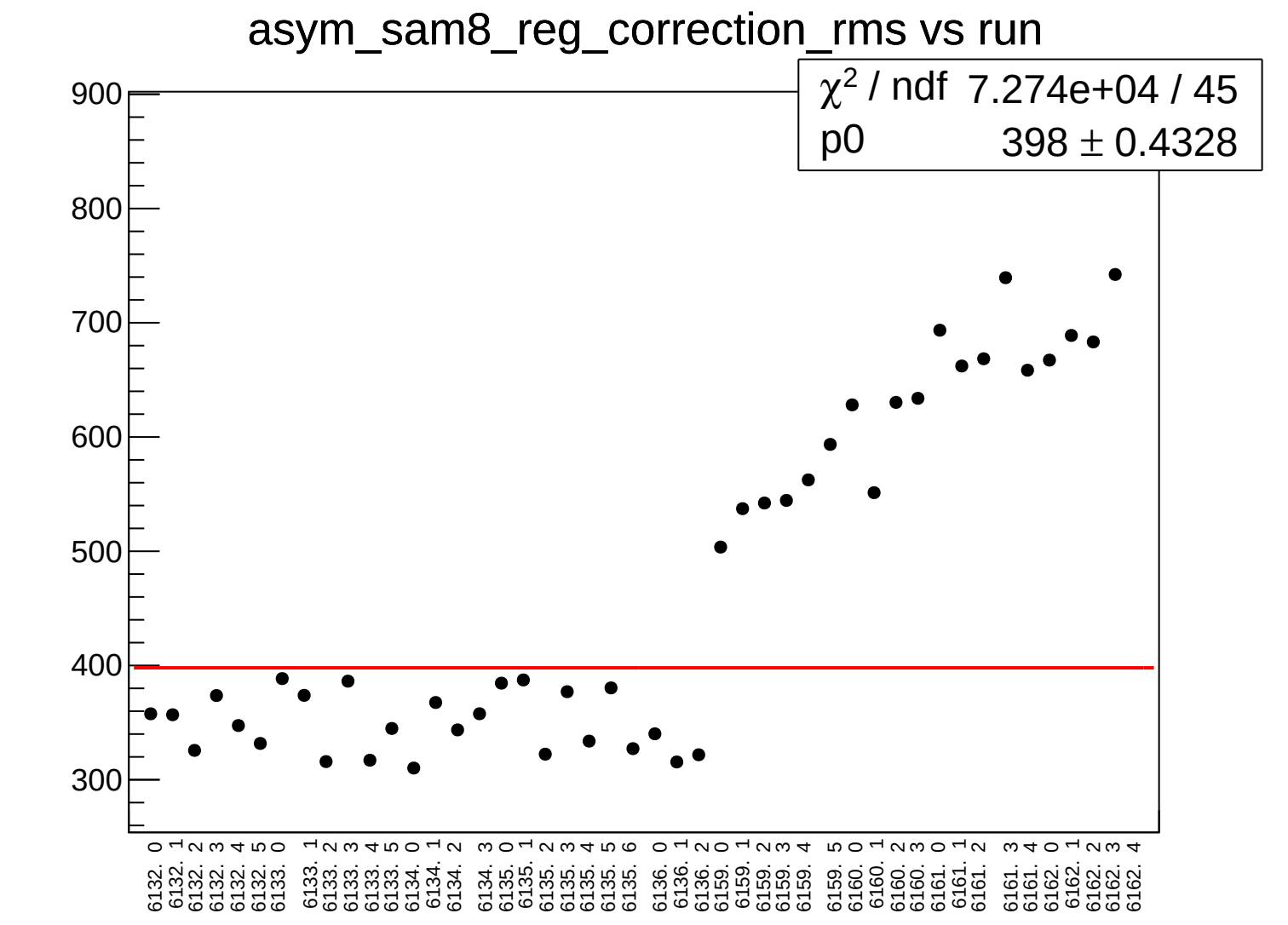

reg_asym_sam8_mean vs run
χ² / ndf 45.1 / 45
p0 242.6 ± 87.04
3000
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 3162
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.001278
Std Dev 0.9902
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 183 / 45
p0 58.97 ± 0.06155
61
60.5
60
59.5
59
58.5
58
57.5
57
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam8_reg_correction_mean vs run
χ² / ndf 51.69 / 45
p0 25.18 ± 612.1
pull
Entries 46
Mean 87.27
Std Dev 0


pull1D
Entries 46
Mean 0.04907
Std Dev 1.059


asym_sam8_reg_correction_rms vs run
χ^2 / ndf 7.274e+04 / 45
p0 398 ± 0.4328
900
800
700
600
500
400
300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
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6161. 4
6162. 0
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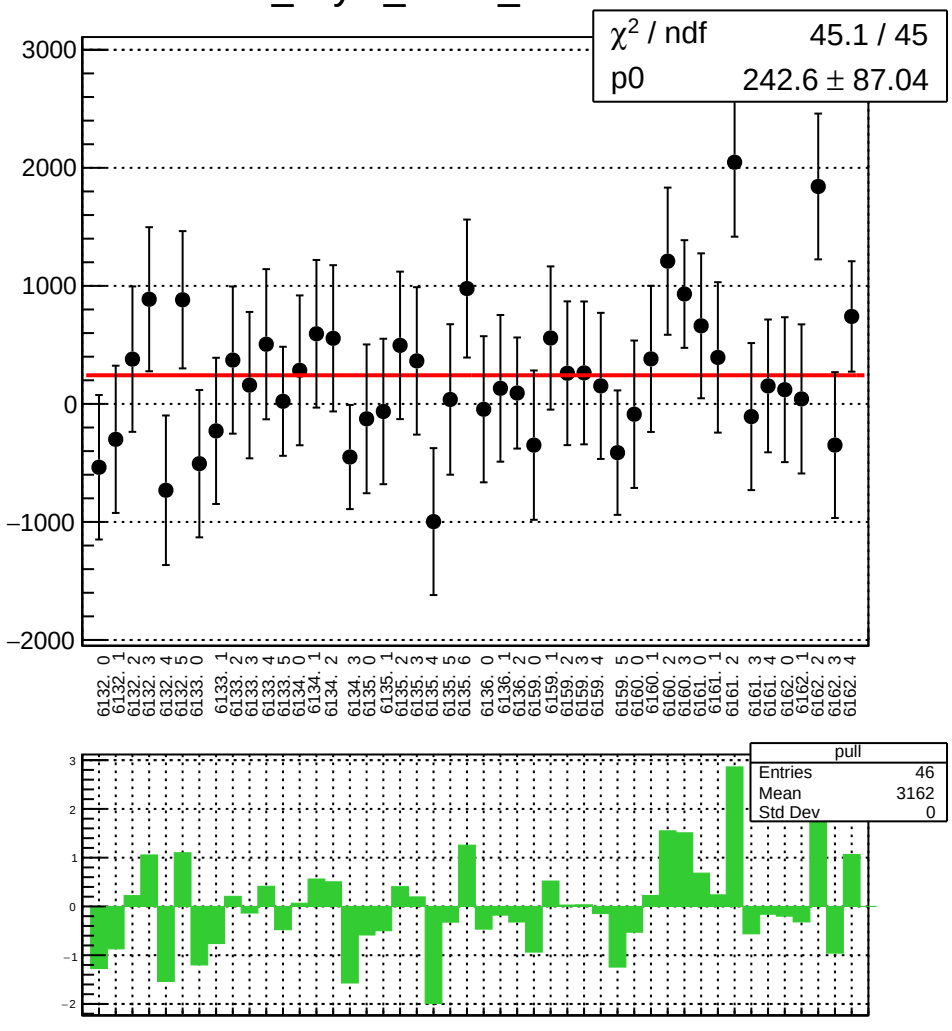
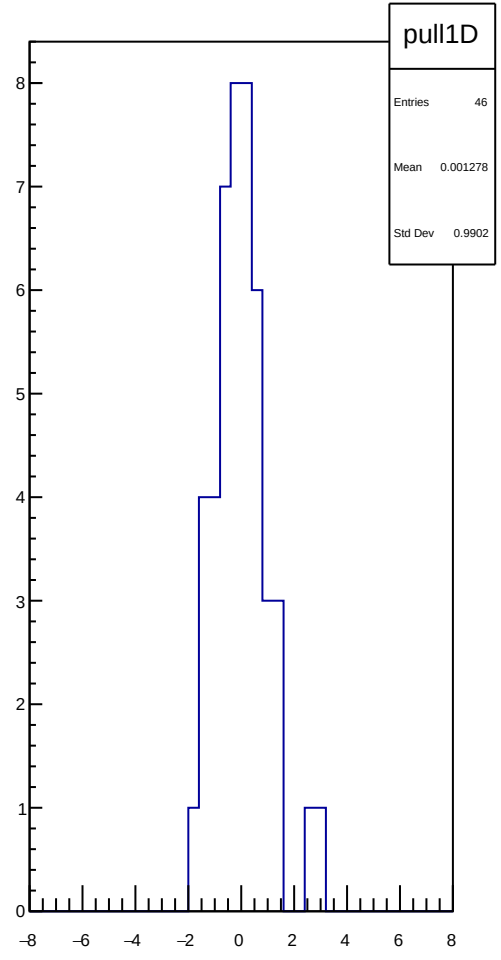
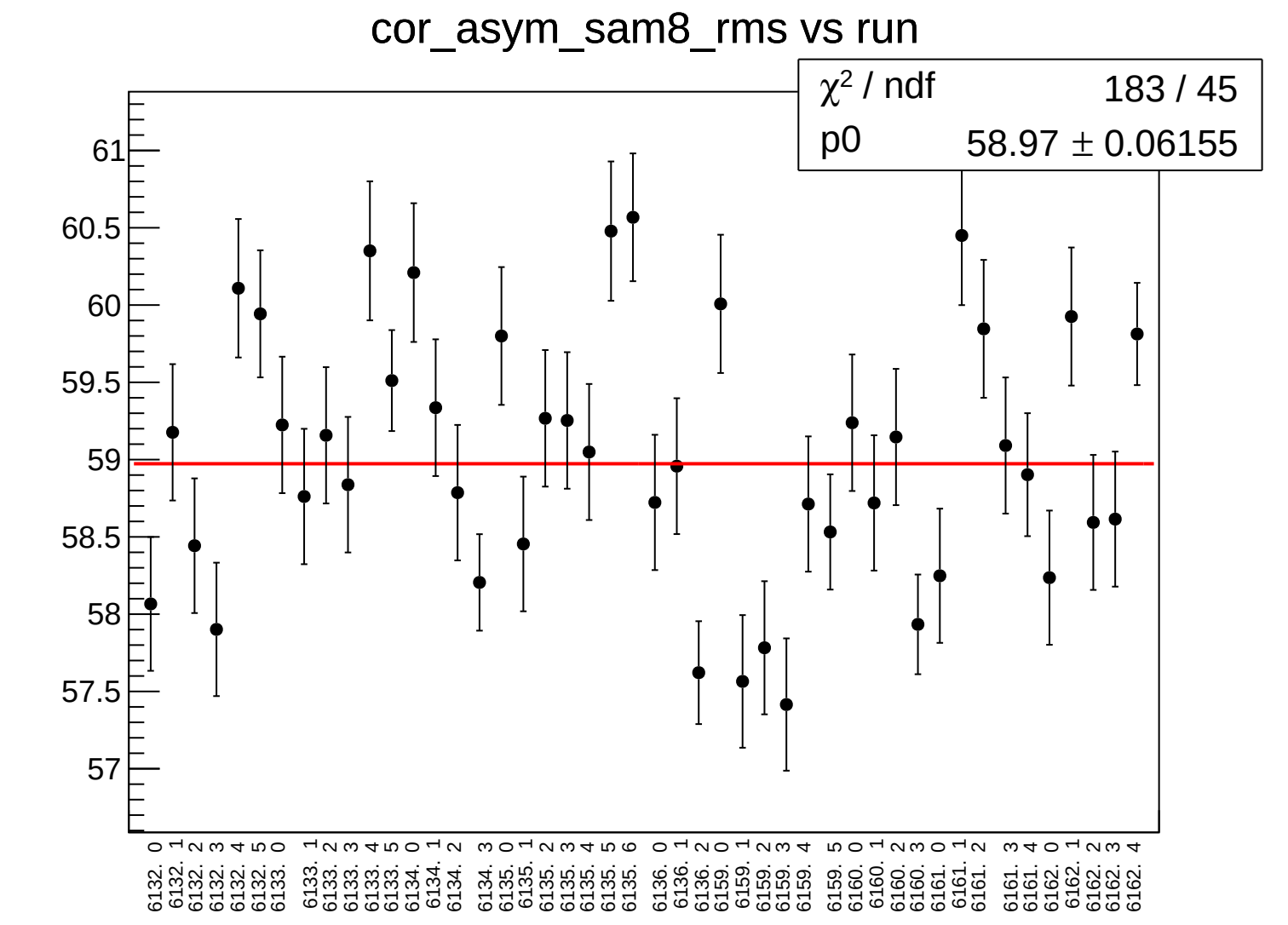
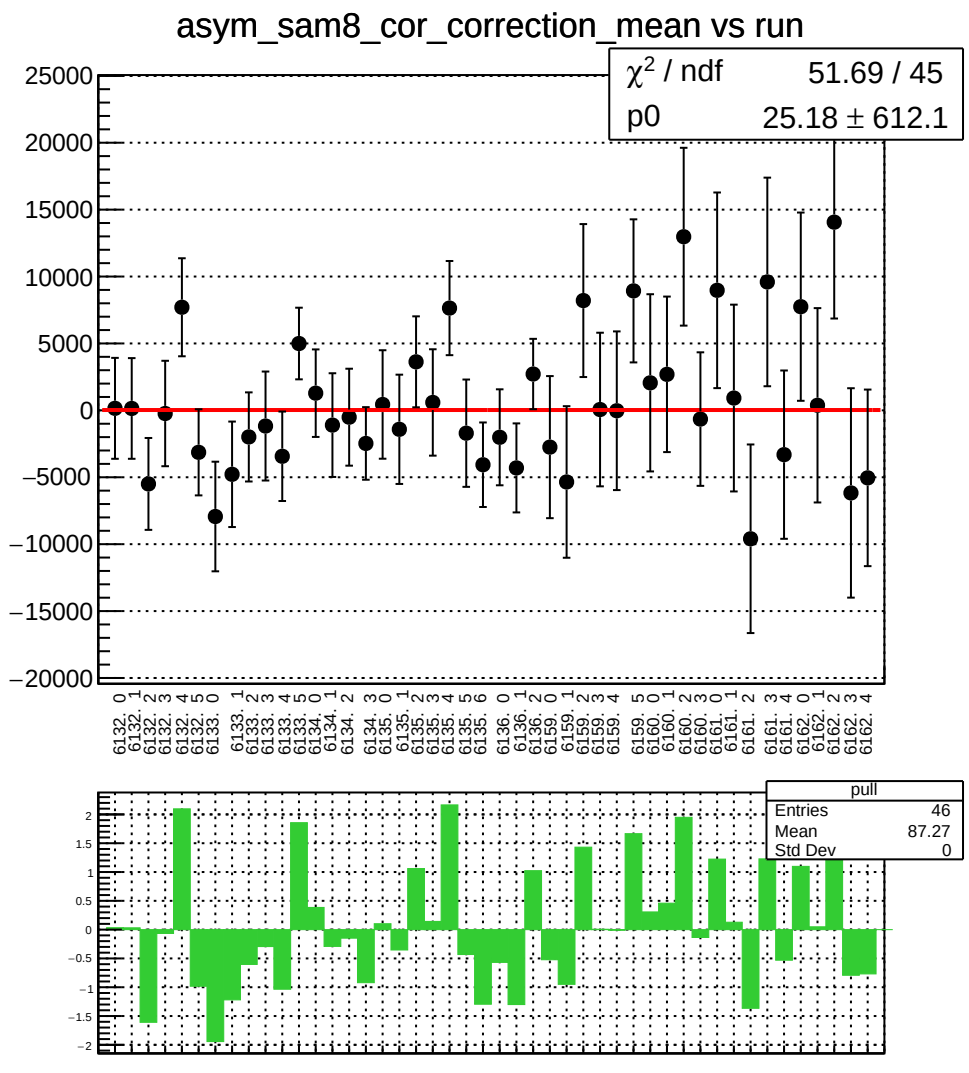
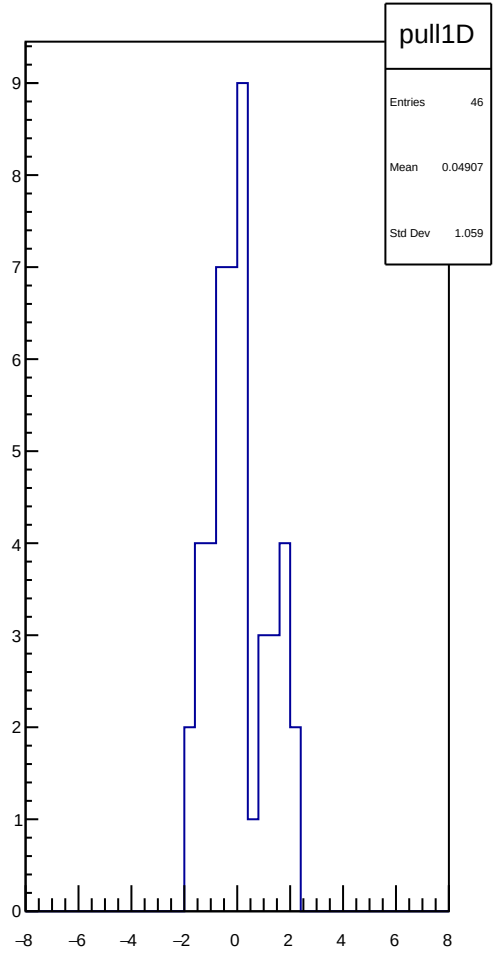
6162. 2
6162. 3
6162. 4

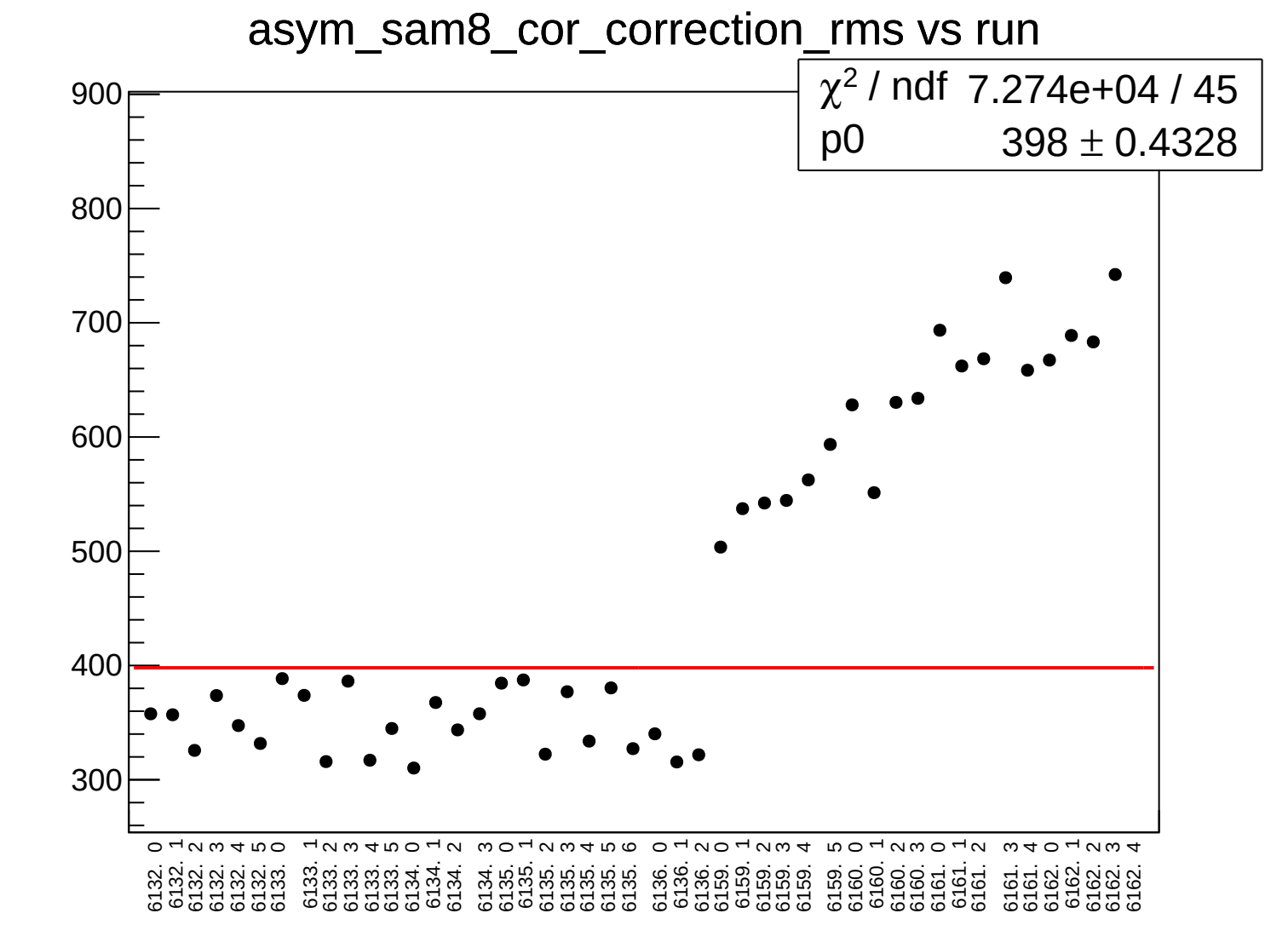

cor_asym_sam8_mean vs run
χ² / ndf 45.1 / 45
p0 242.6 ± 87.04
3000
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 3162
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.001278
Std Dev 0.9902
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam8_rms vs run
χ² / ndf 183 / 45
p0 58.97 ± 0.06155
61
60.5
60
59.5
59
58.5
58
57.5
57
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam8_cor_correction_mean vs run
χ² / ndf 51.69 / 45
p0 25.18 ± 612.1
pull
Entries 46
Mean 87.27
Std Dev 0


pull1D
Entries 46
Mean 0.04907
Std Dev 1.059


asym_sam8_cor_correction_rms vs run
χ² / ndf 7.274e+04 / 45
p0 398 ± 0.4328
900
800
700
600
500
400
300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 4
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6135. 6
6136. 0
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6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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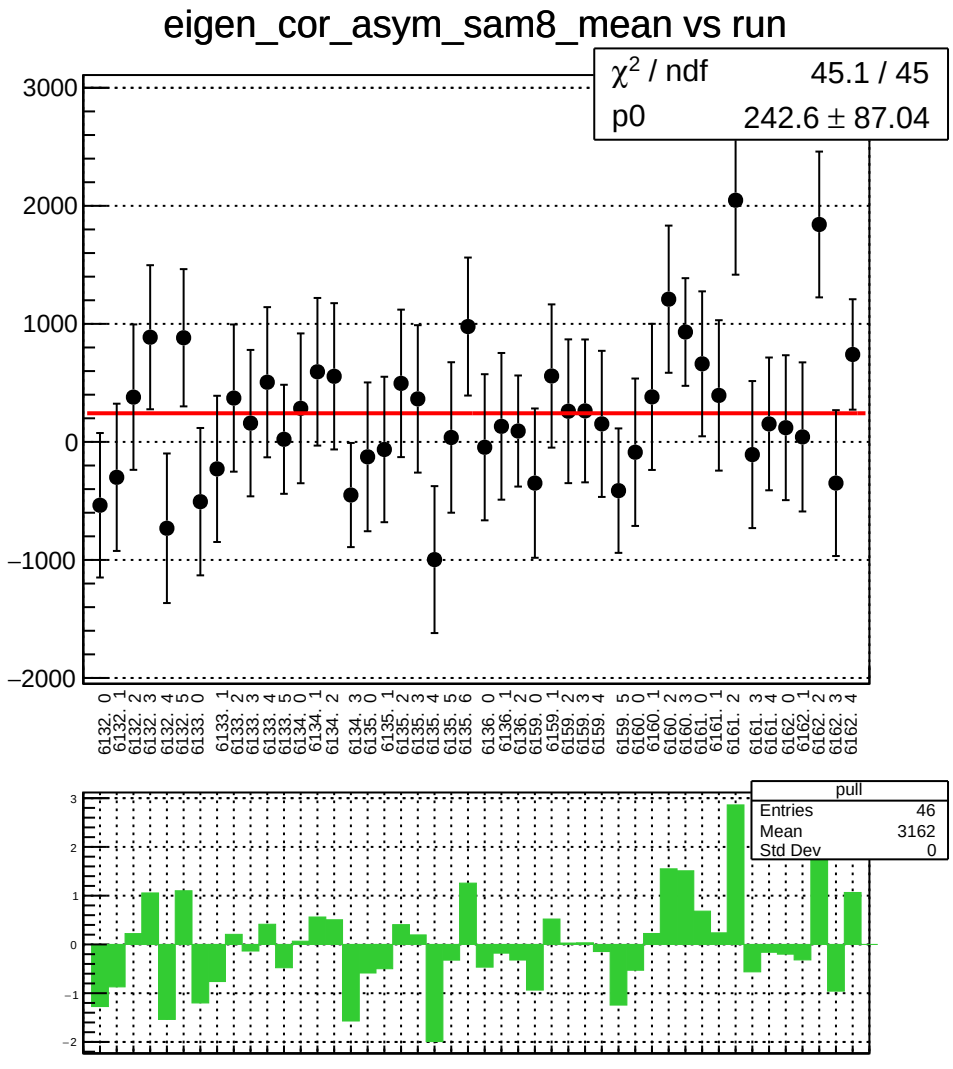
6162. 4


eigen_cor_asym_sam8_mean vs run
χ² / ndf 45.1 / 45
p0 242.6 ± 87.04
3000
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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
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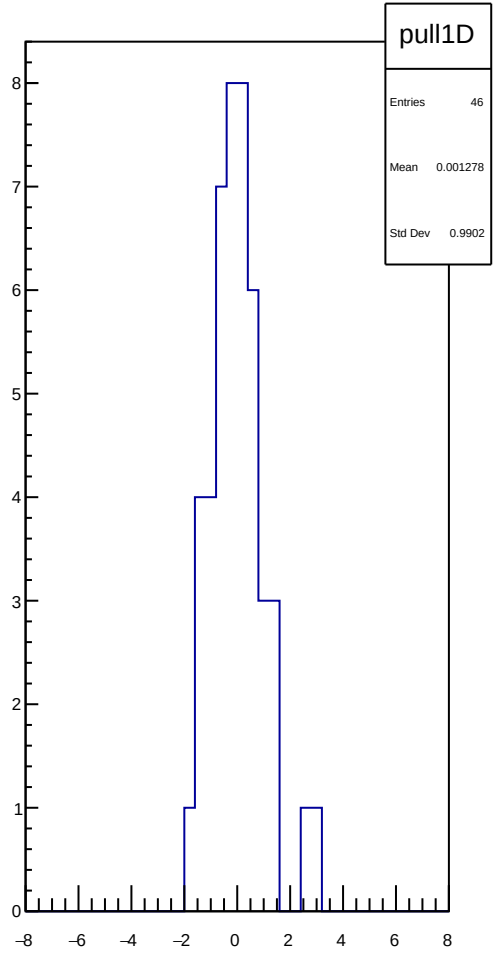
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 3162
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.001278
Std Dev 0.9902
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5
4
3
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1
0
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−6
−4
−2
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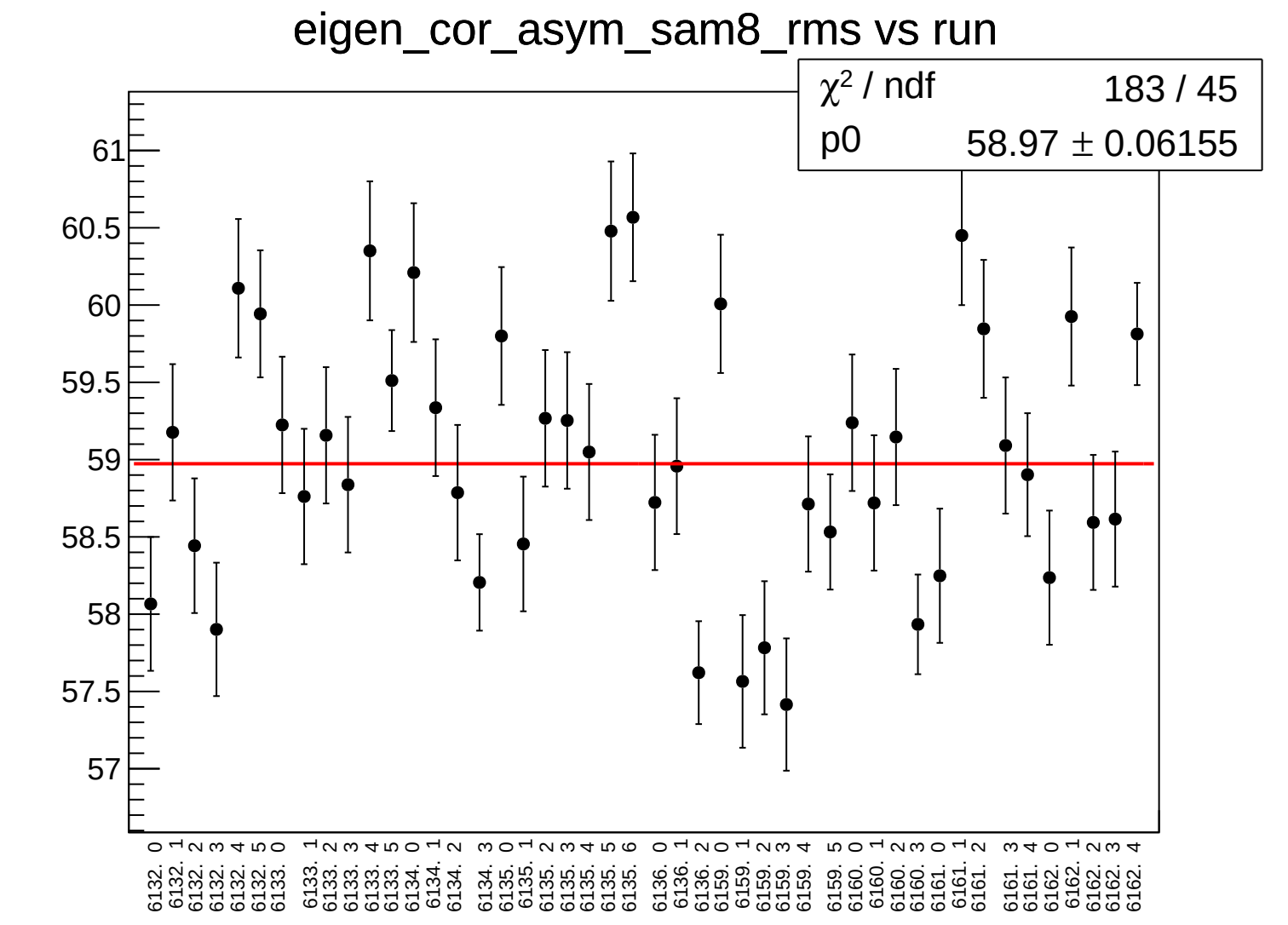
4
6
8


eigen_cor_asym_sam8_rms vs run
χ² / ndf 183 / 45
p0 58.97 ± 0.06155
61
60.5
60
59.5
59
58.5
58
57.5
57
6132. 0
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6133. 4
6133. 5
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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
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6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
6161. 3
6161. 4
6162. 0
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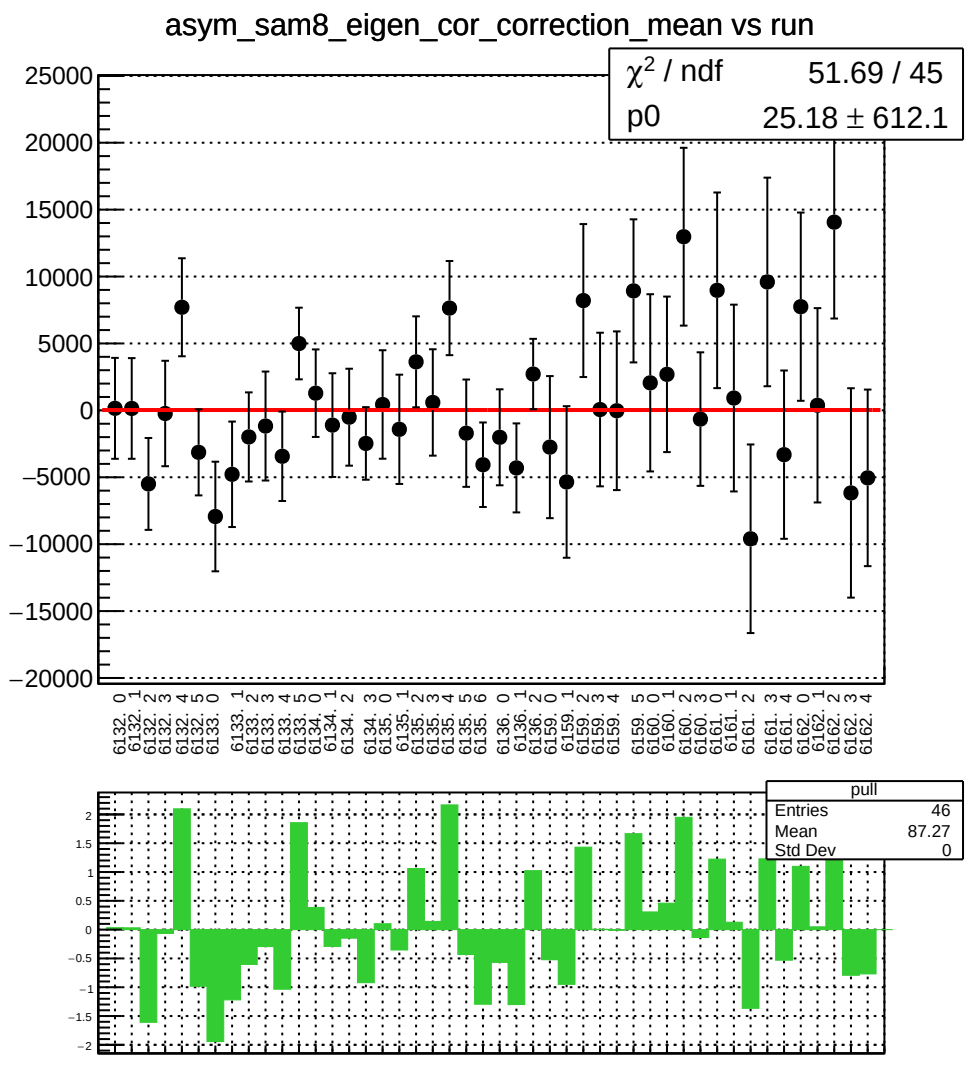
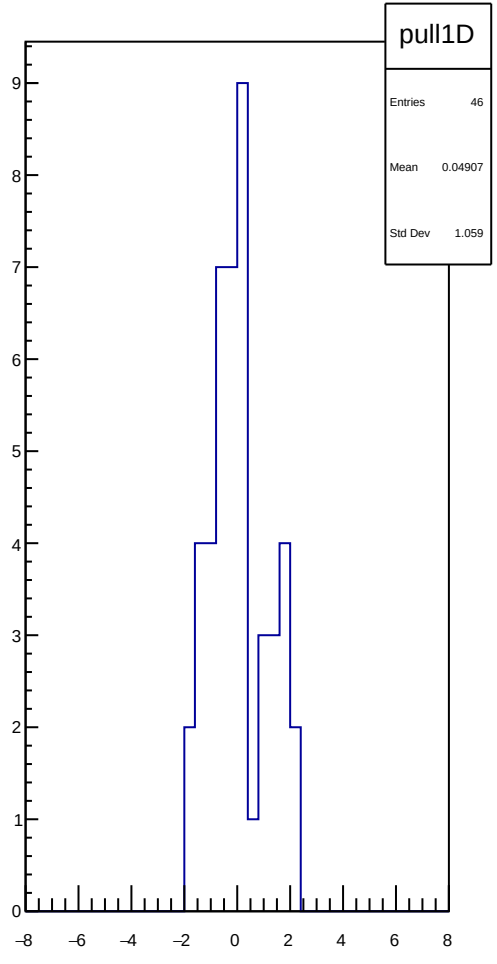
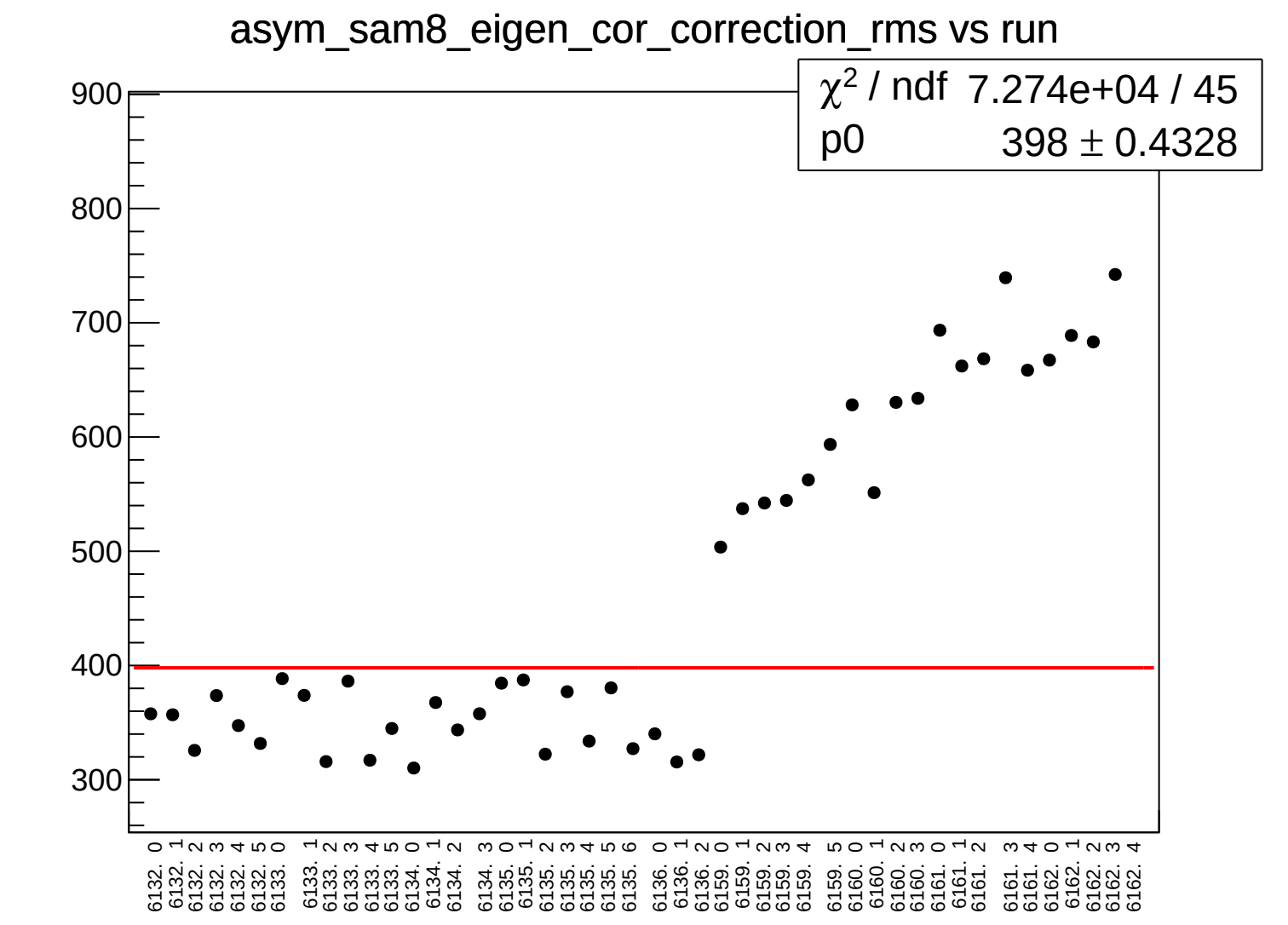
6162. 2
6162. 3
6162. 4


asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 51.69 / 45
p0 25.18 ± 612.1
pull
Entries 46
Mean 87.27
Std Dev 0


pull1D
Entries 46
Mean 0.04907
Std Dev 1.059


asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 7.274e+04 / 45
p0 398 ± 0.4328
900
800
700
600
500
400
300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6136. 2
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6159. 1
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6159. 3
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6160. 0
6160. 1
6160. 2
6160. 3
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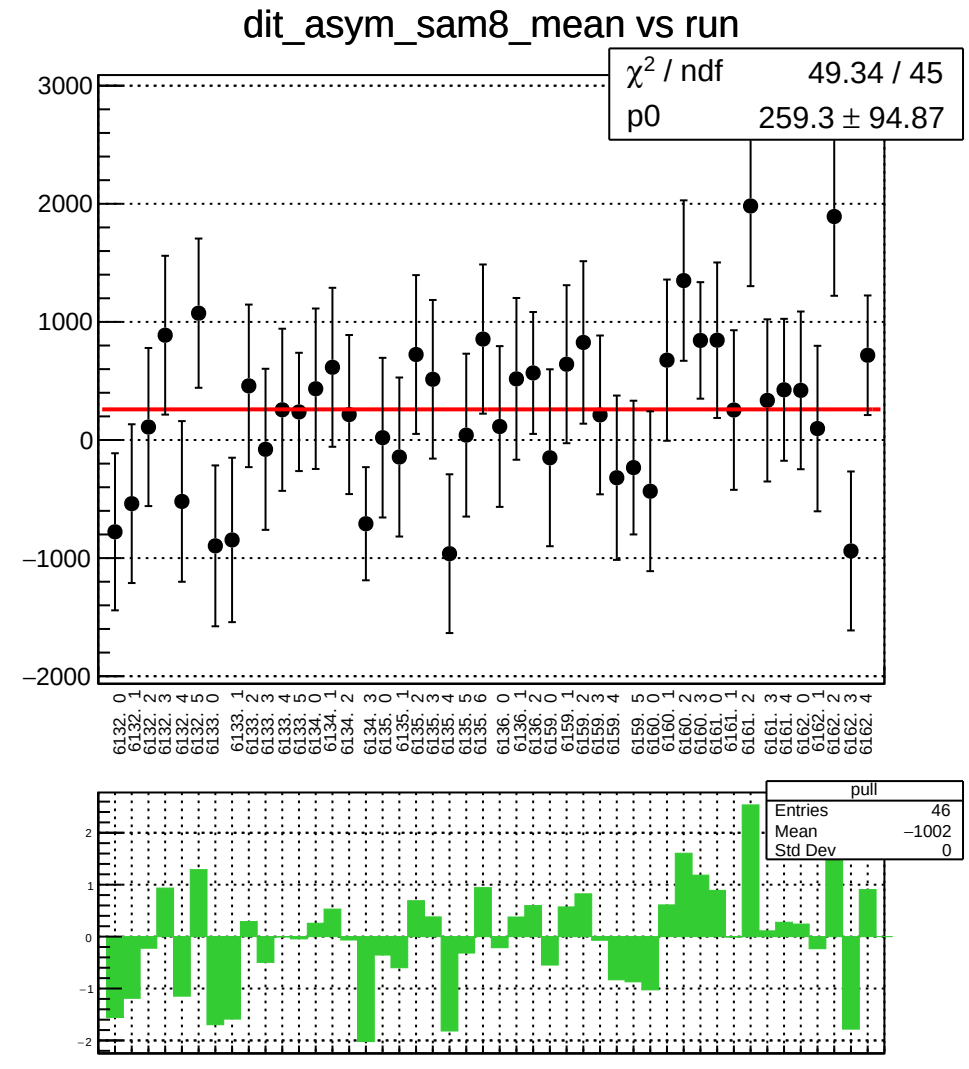
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


dit_asym_sam8_mean vs run
χ^2 / ndf 49.34 / 45
p0 259.3 ± 94.87
3000
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
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6135. 2
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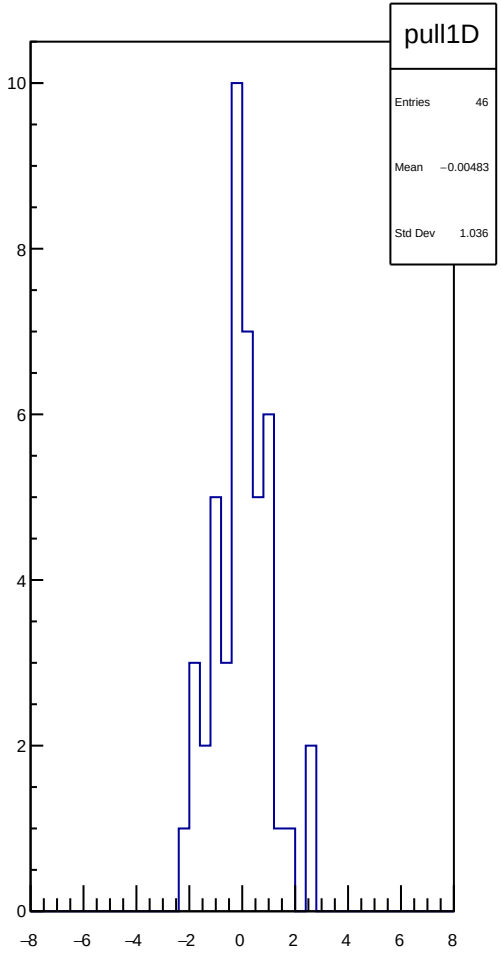
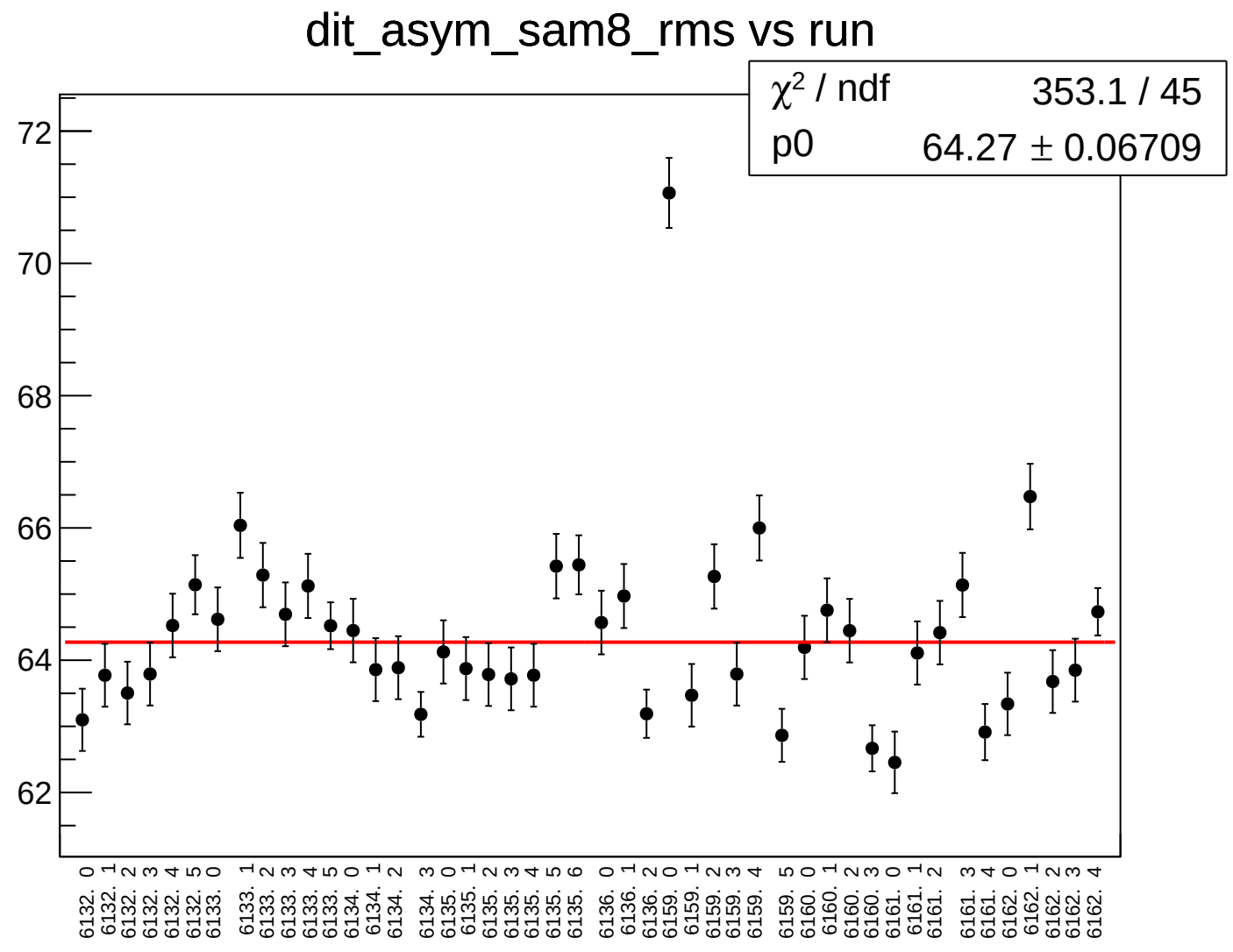
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1002
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.00483
Std Dev 1.036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam8_rms vs run
χ² / ndf 353.1 / 45
p0 64.27 ± 0.06709
72
70
68
66
64
62
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
6134. 3
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6136. 0
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6136. 2
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6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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6161. 4
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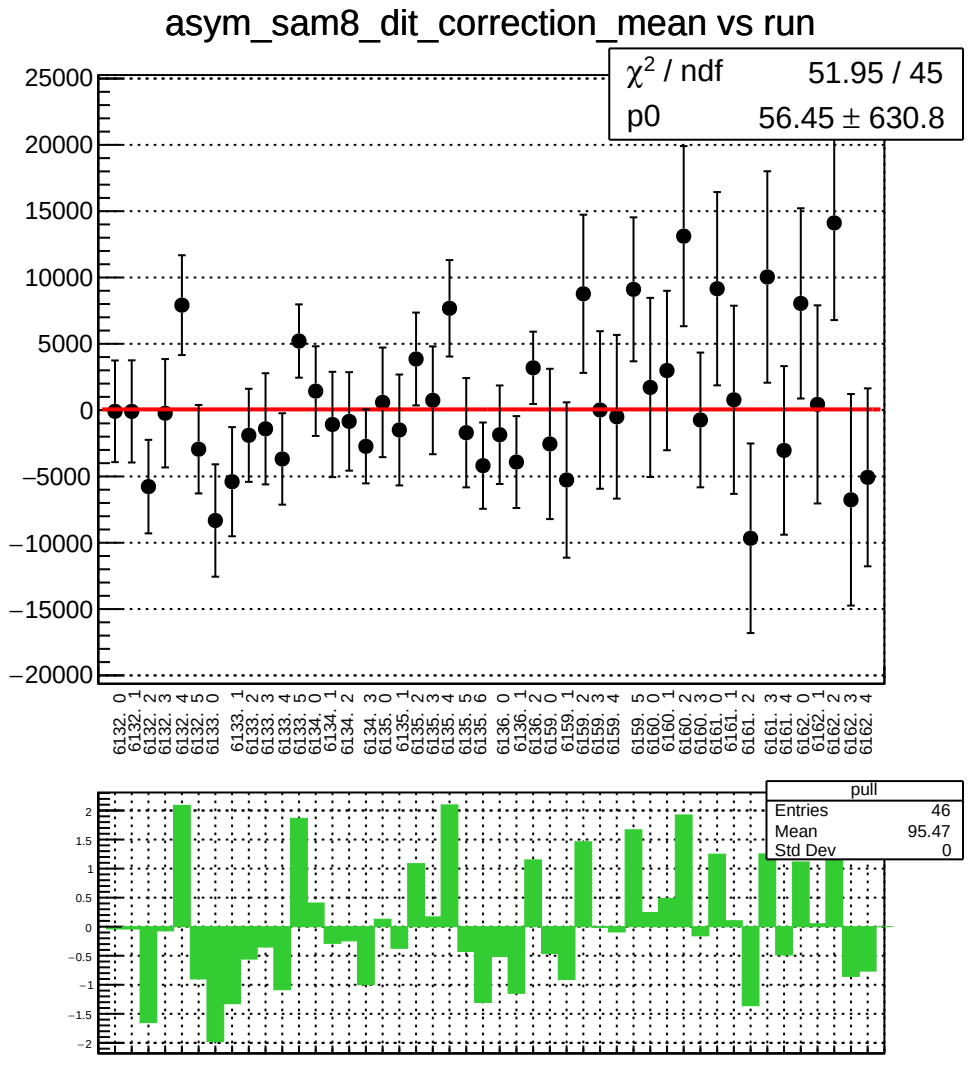
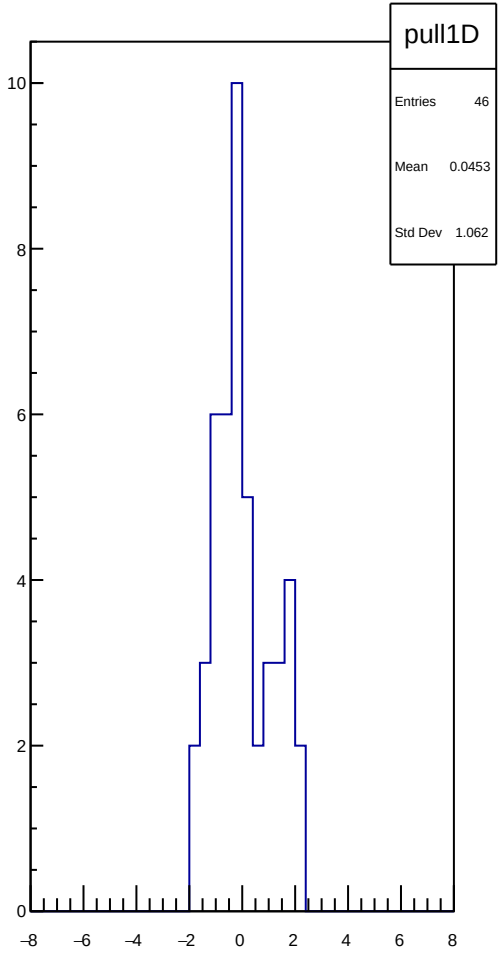
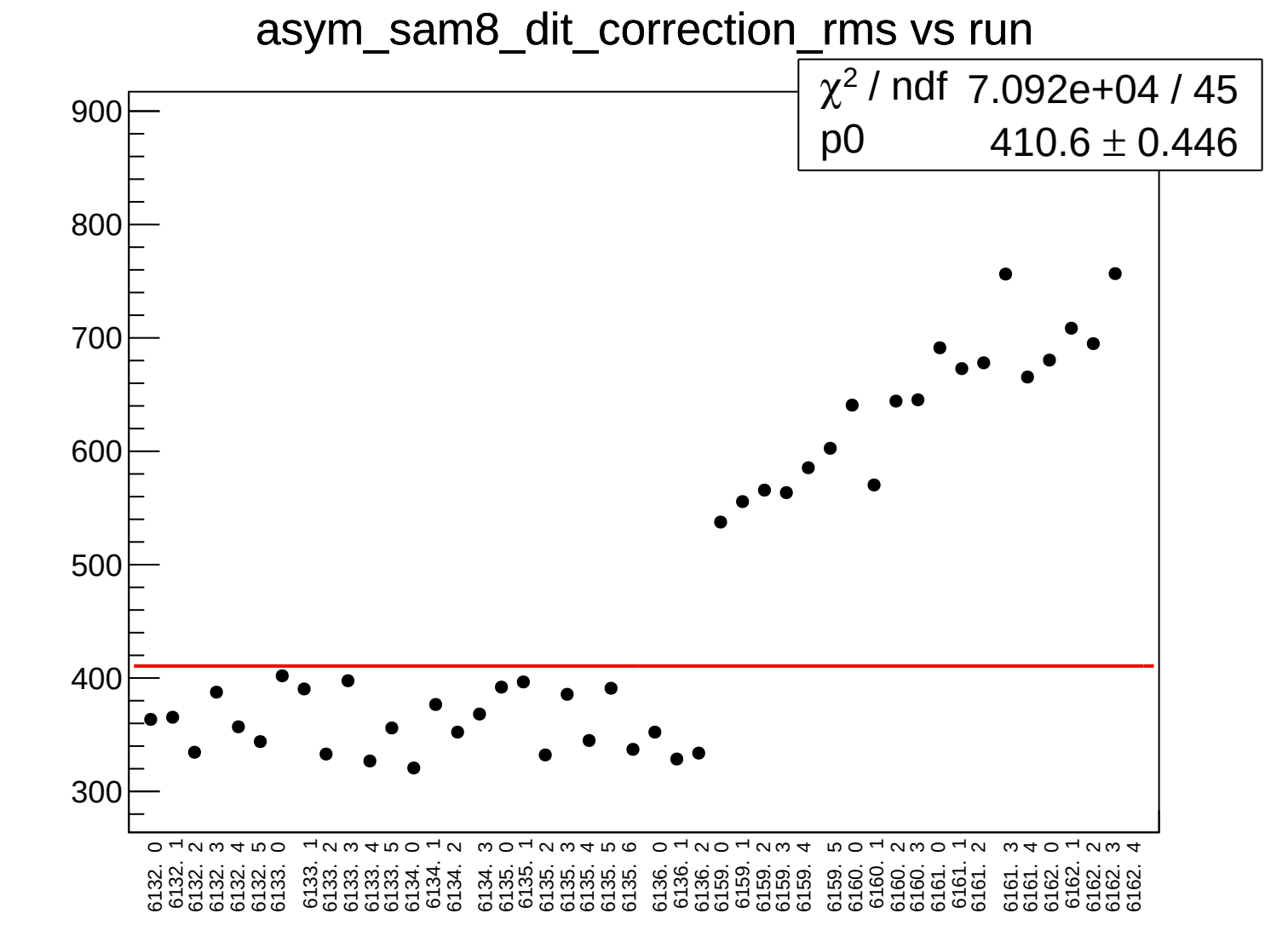
6162. 4


asym_sam8_dit_correction_mean vs run
χ² / ndf 51.95 / 45
p0 56.45 ± 630.8
pull
Entries 46
Mean 95.47
Std Dev 0


pull1D
Entries 46
Mean 0.0453
Std Dev 1.062


asym_sam8_dit_correction_rms vs run
χ^2 / ndf 7.092e+04 / 45
p0 410.6 ± 0.446
900
800
700
600
500
400
300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
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6159. 4
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6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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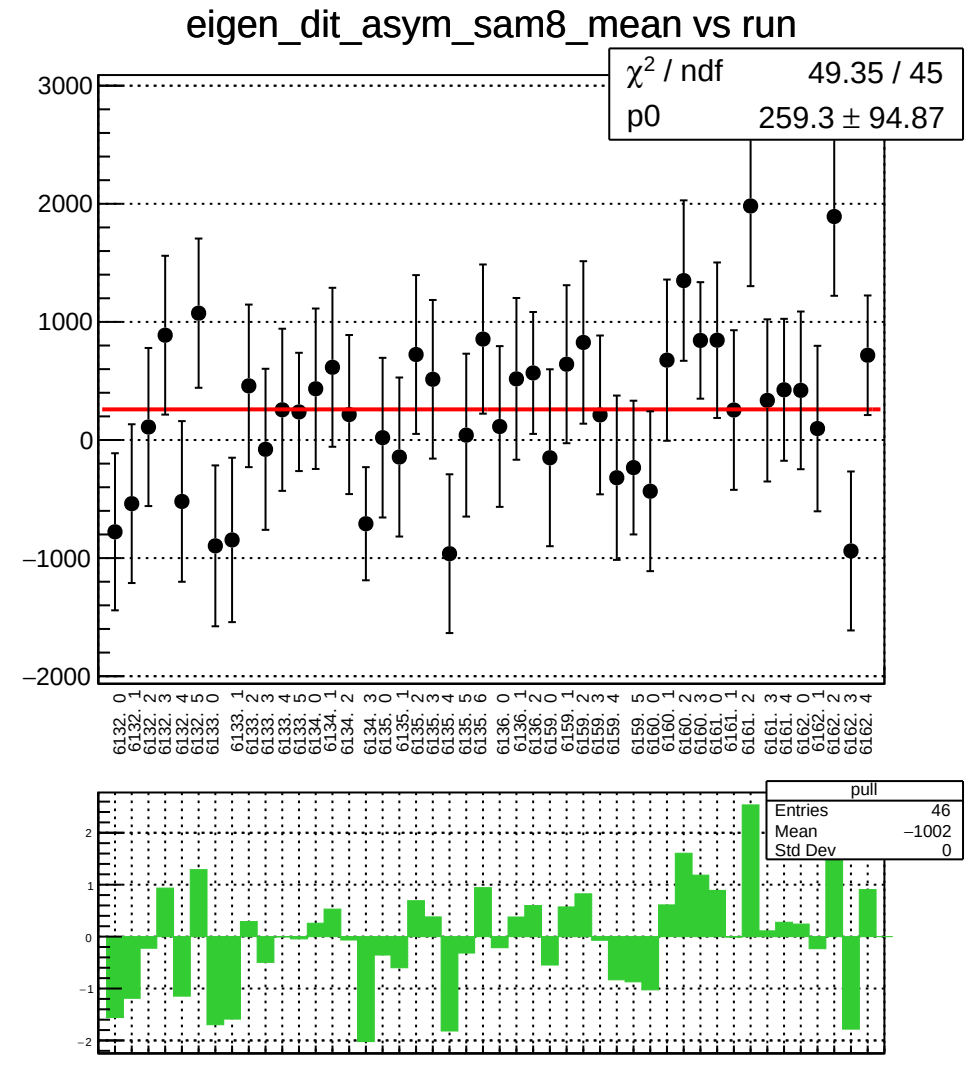
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_dit_asym_sam8_mean vs run
χ² / ndf 49.35 / 45
p0 259.3 ± 94.87
3000
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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6133. 4
6133. 5
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6136. 1
6136. 2
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6159. 1
6159. 2
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6159. 5
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6160. 1
6160. 2
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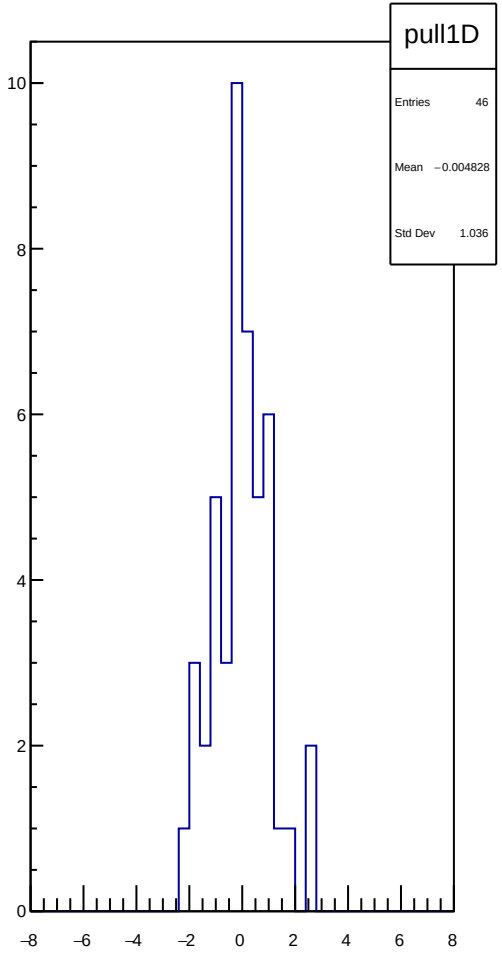
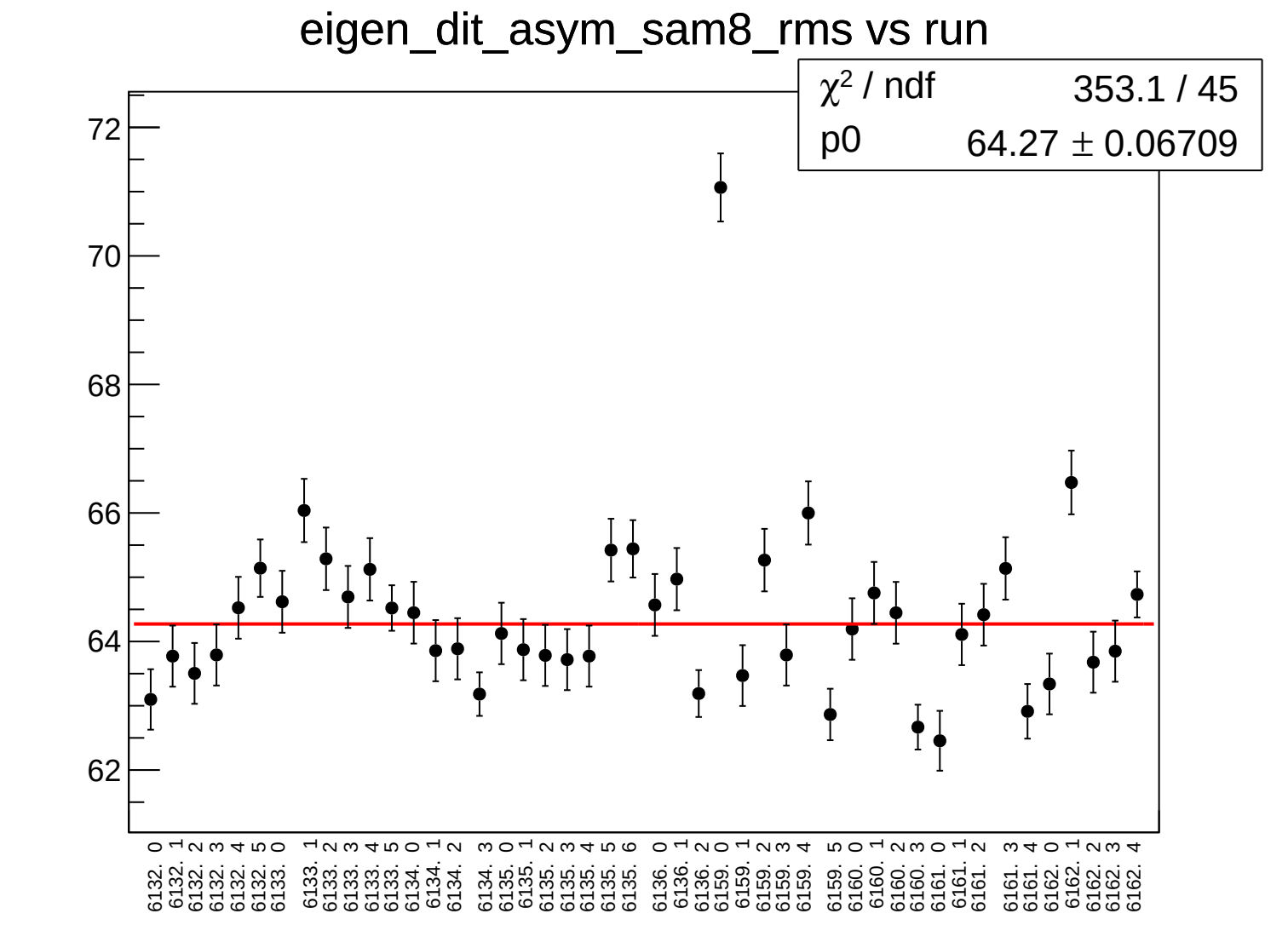
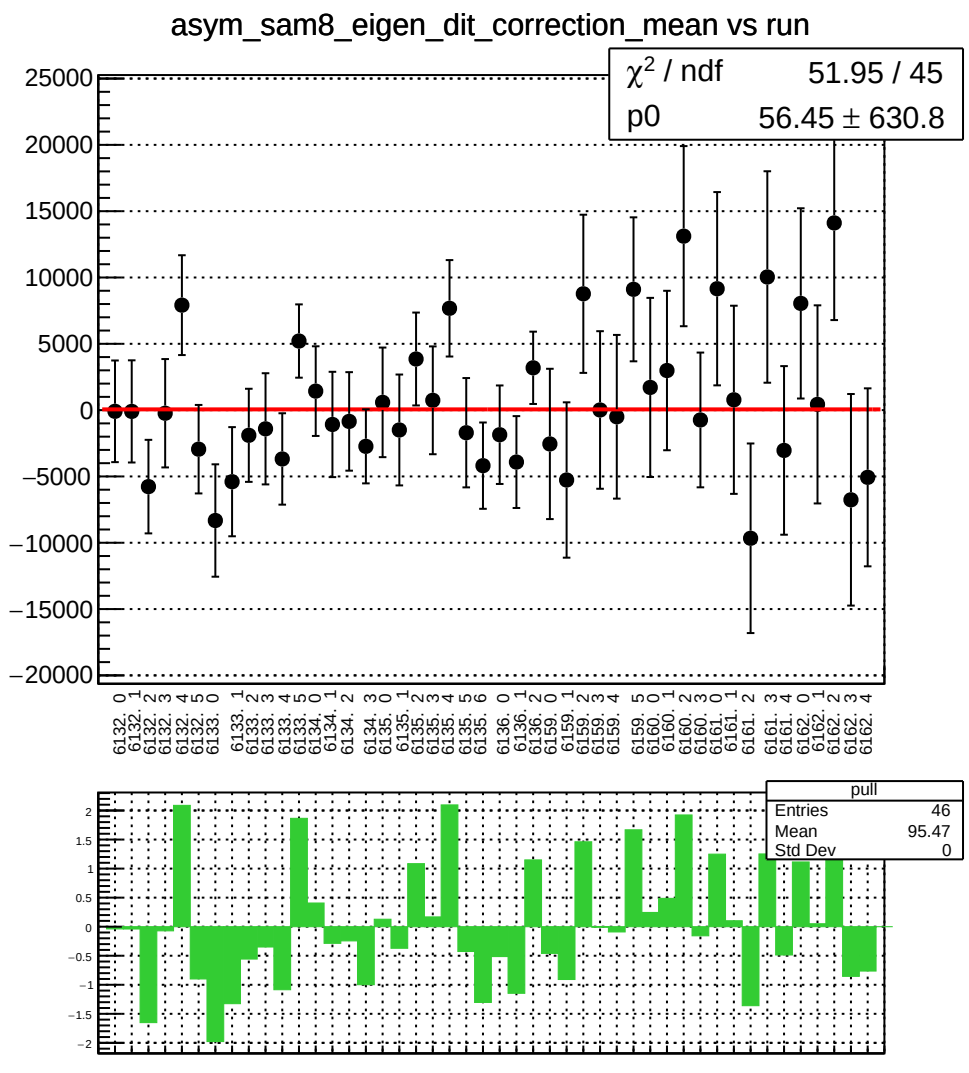
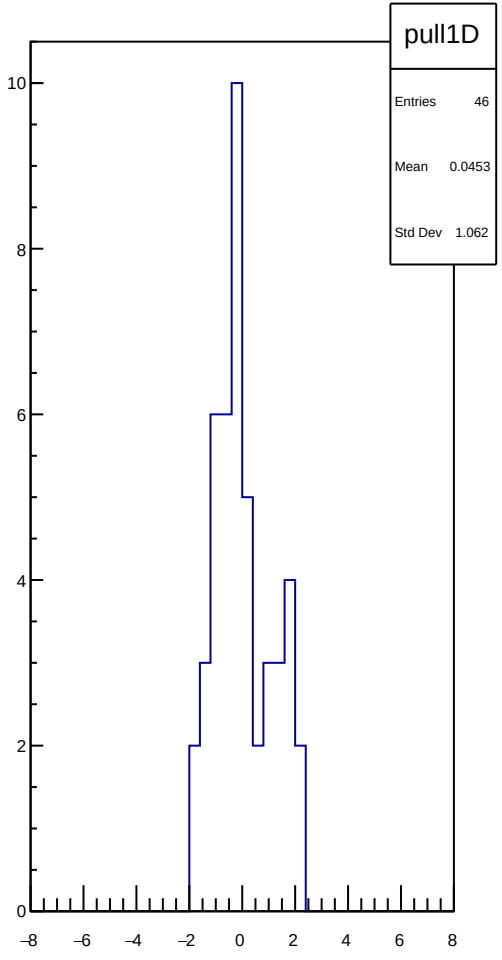
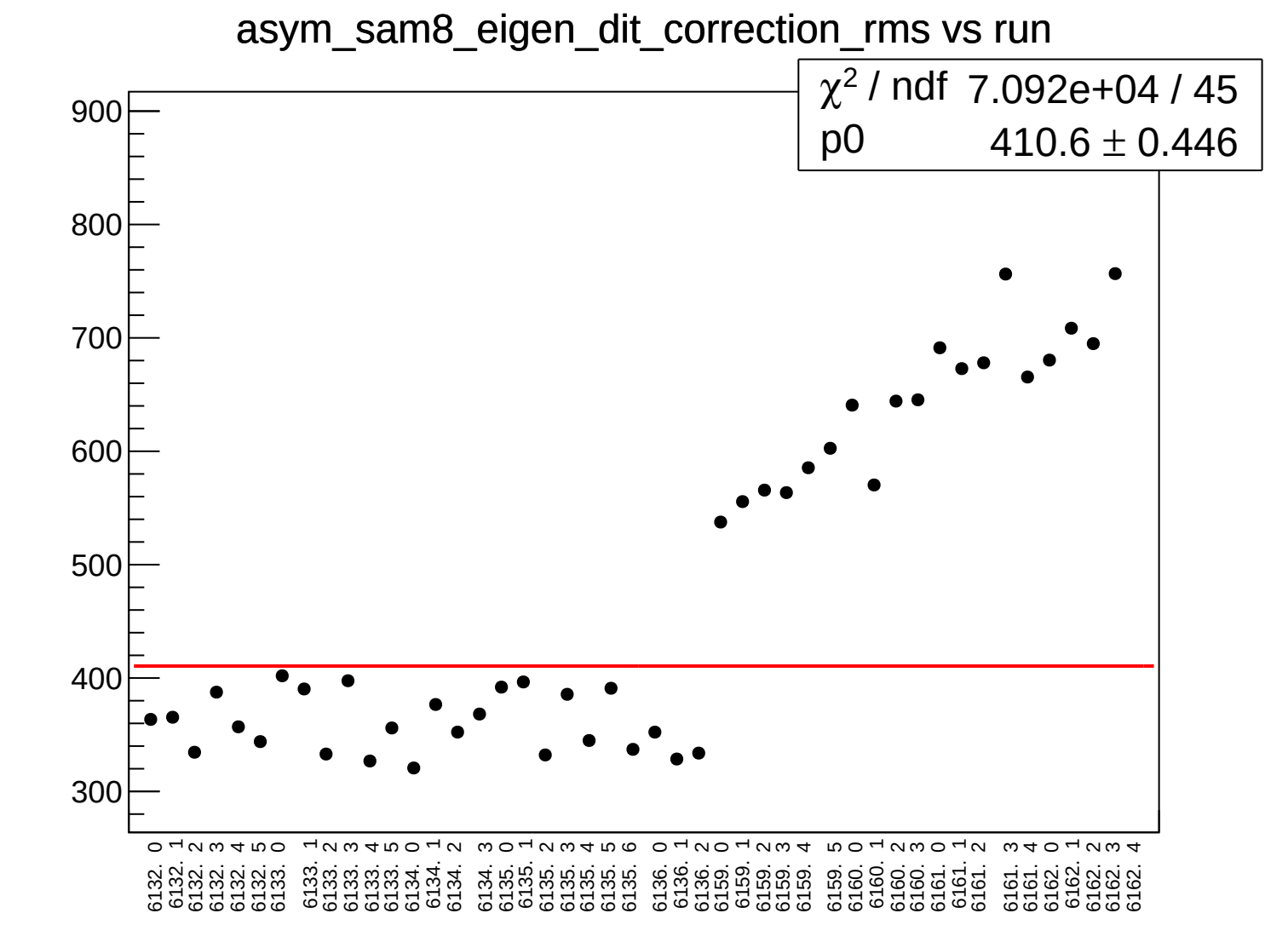
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1002
Std Dev 0
2
1
0
−1
−2

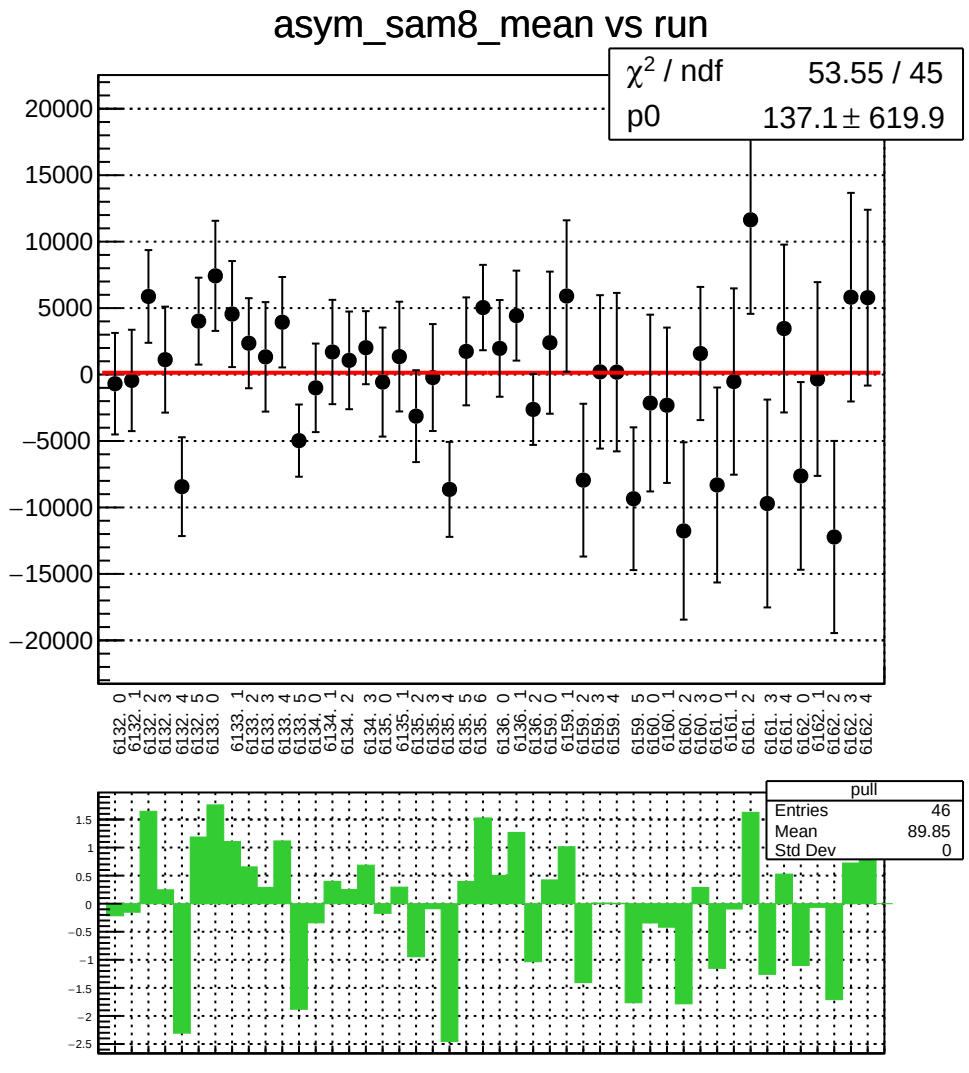

pull1D
Entries 46
Mean −0.004828
Std Dev 1.036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

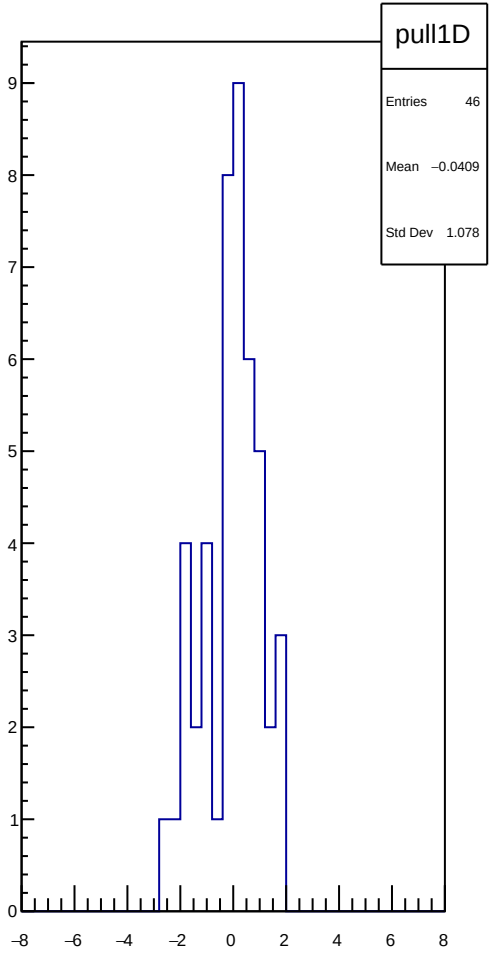

eigen_dit_asym_sam8_rms vs run
χ² / ndf 353.1 / 45
p0 64.27 ± 0.06709
72
70
68
66
64
62
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

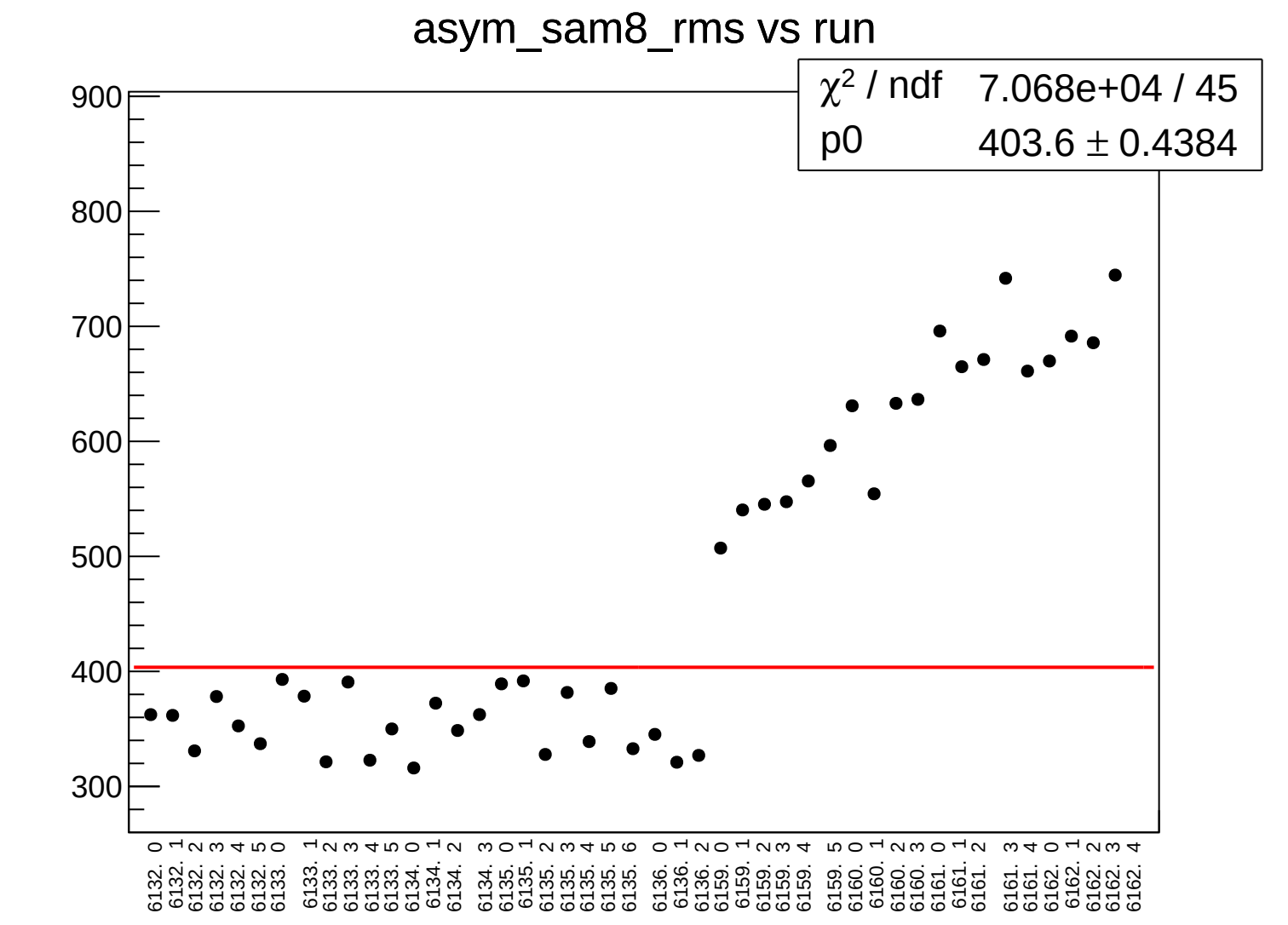

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 51.95 / 45
p0 56.45 ± 630.8
pull
Entries 46
Mean 95.47
Std Dev 0

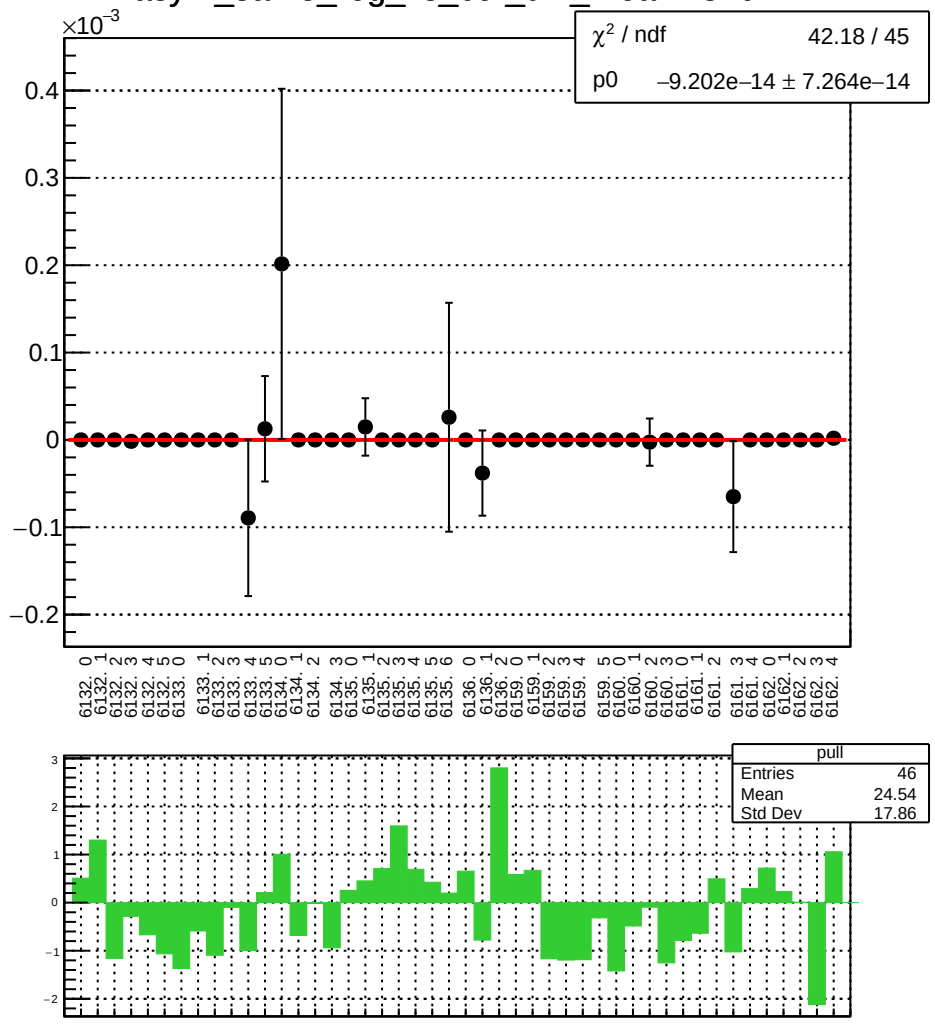

pull1D
Entries 46
Mean 0.0453
Std Dev 1.062

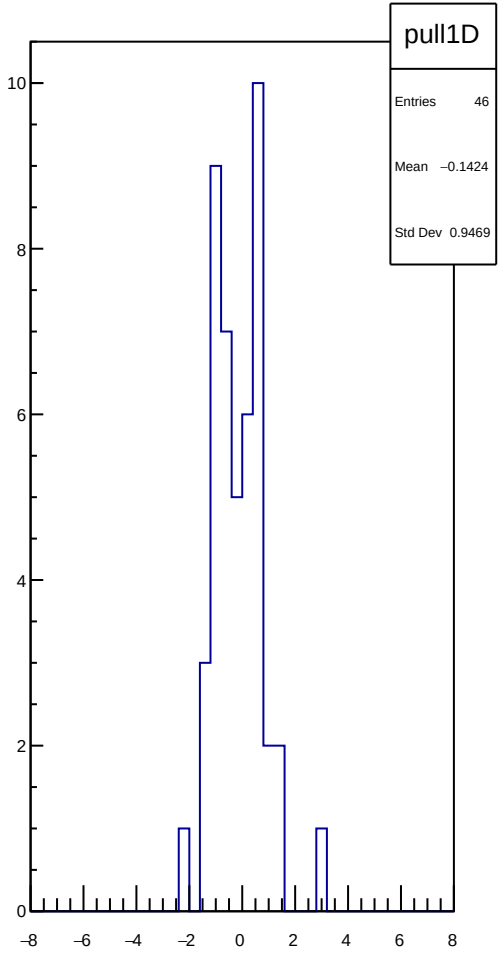

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 7.092e+04 / 45
p0 410.6 ± 0.446
900
800
700
600
500
400
300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

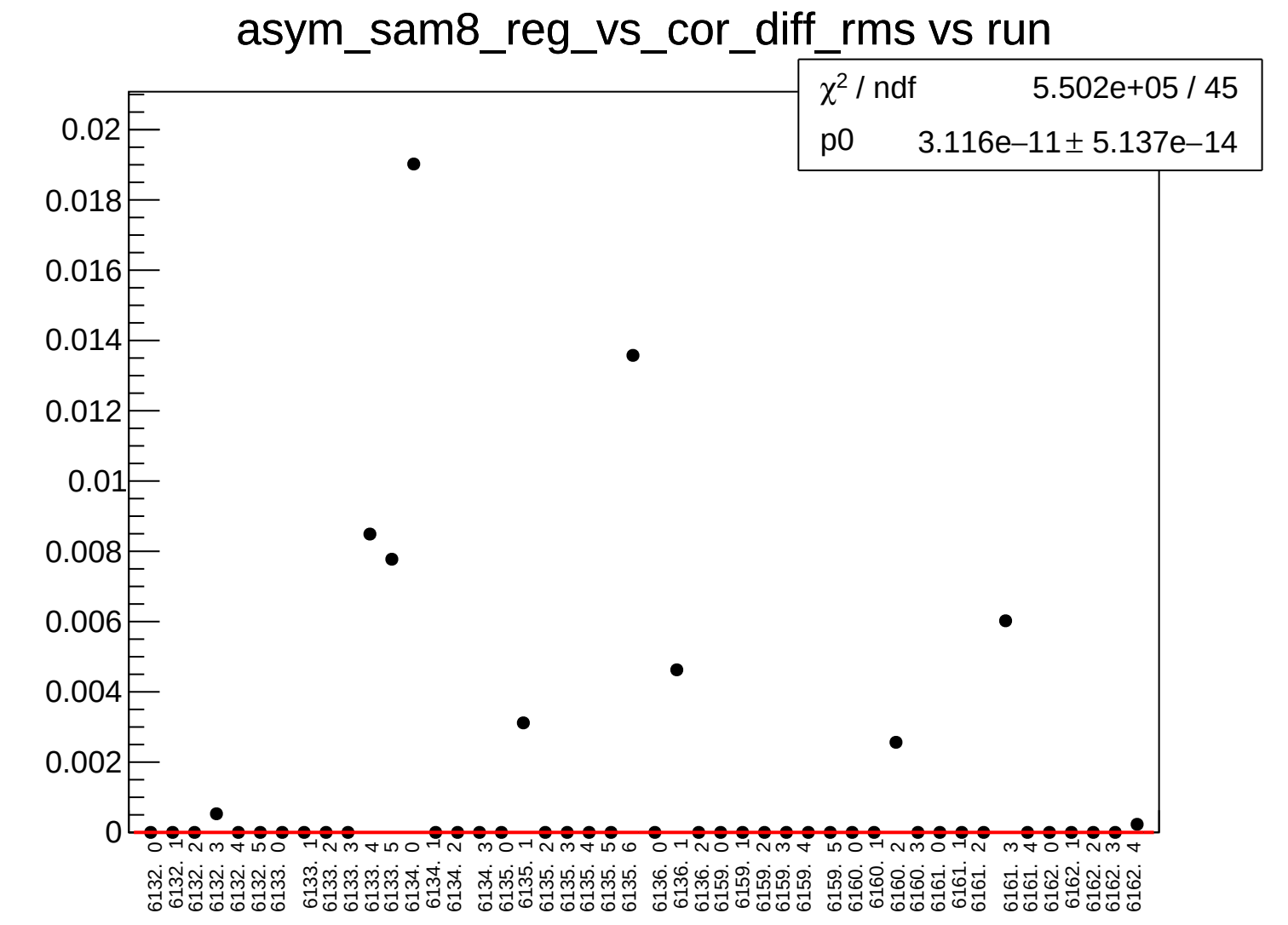

asym_sam8_mean vs run
χ² / ndf 53.55 / 45
p0 137.1 ± 619.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 89.85
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

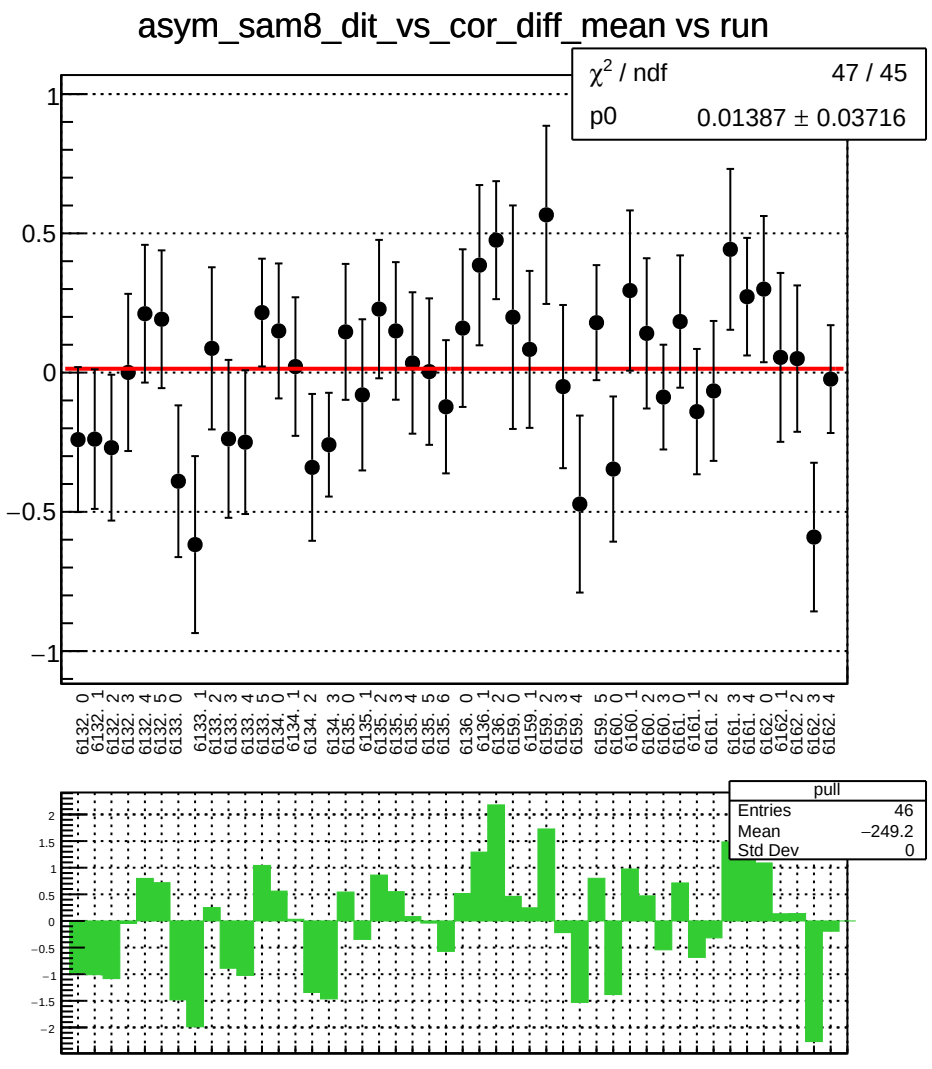

pull1D
Entries 46
Mean −0.0409
Std Dev 1.078
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

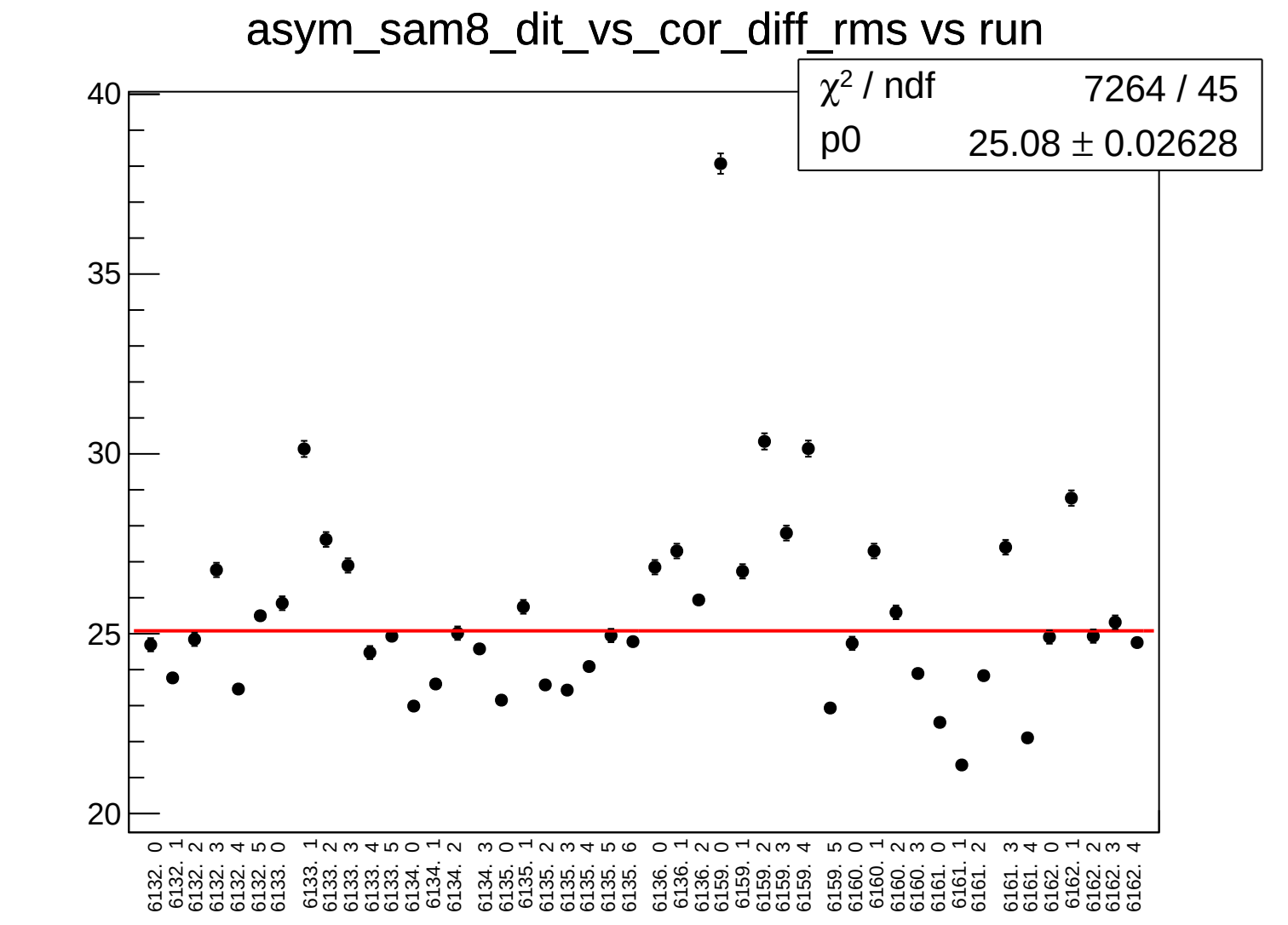

asym_sam8_rms vs run
χ^2 / ndf 7.068e+04 / 45
p0 403.6 ± 0.4384
900
800
700
600
500
400
300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

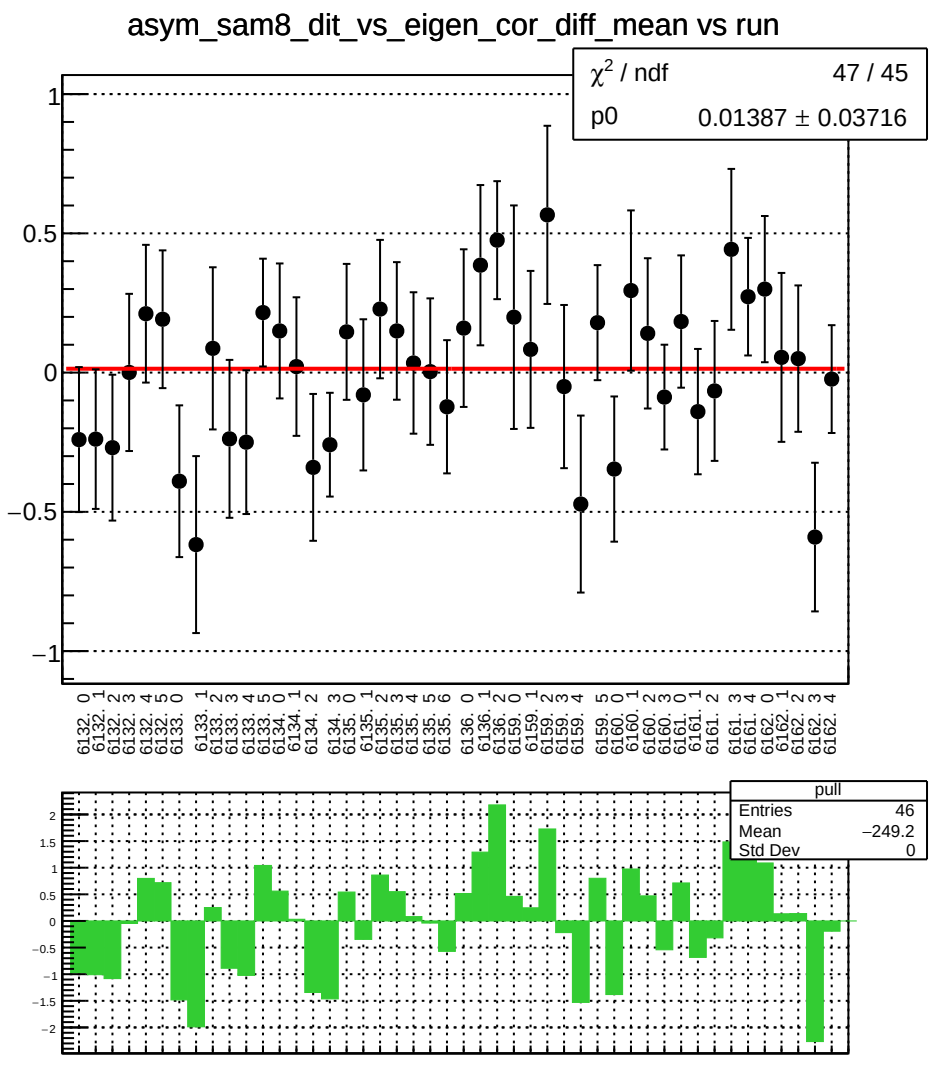

asym_sam8_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 42.18 / 45
p0 −9.202e−14 ± 7.264e−14
pull
Entries 46
Mean 24.54
Std Dev 17.86

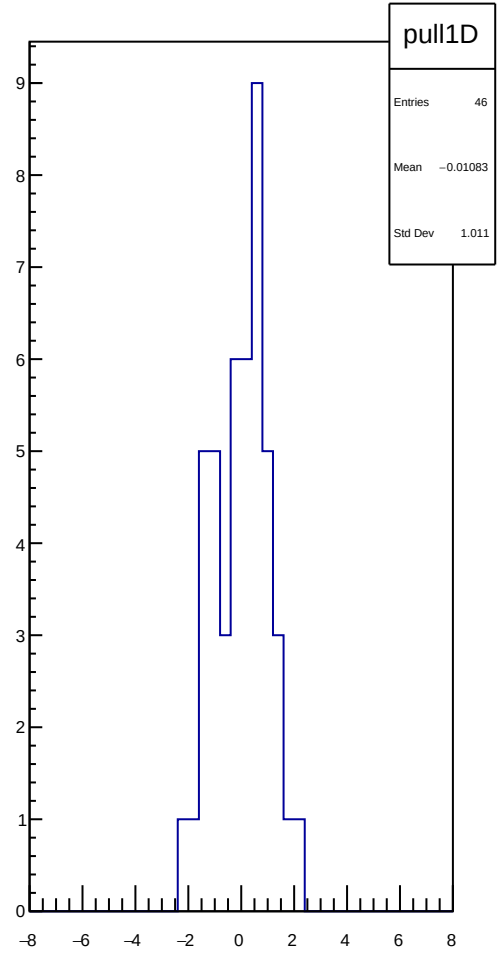

pull1D
Entries 46
Mean −0.1424
Std Dev 0.9469

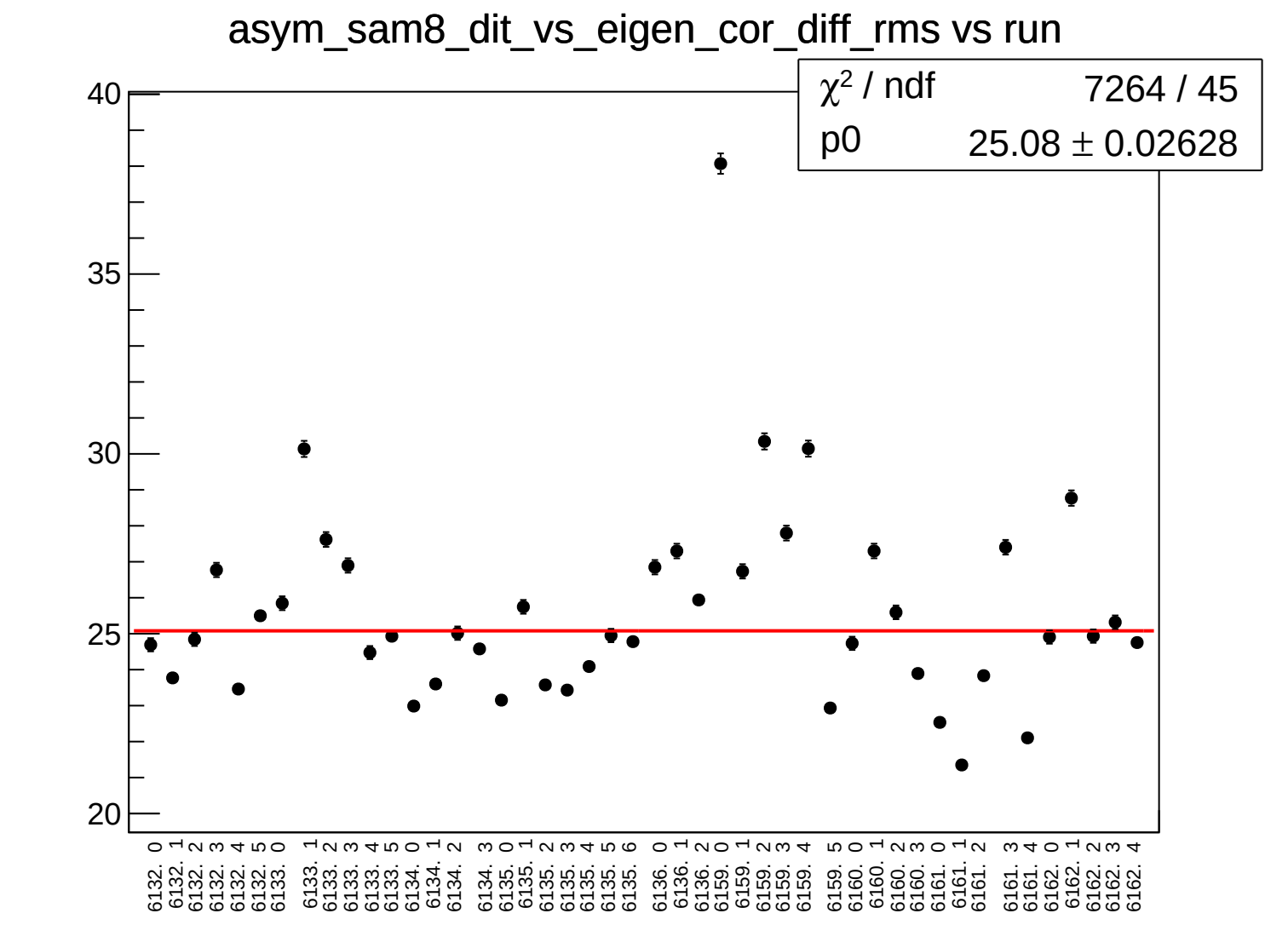

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 5.502e+05 / 45
p0 3.116e−11 ± 5.137e−14
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

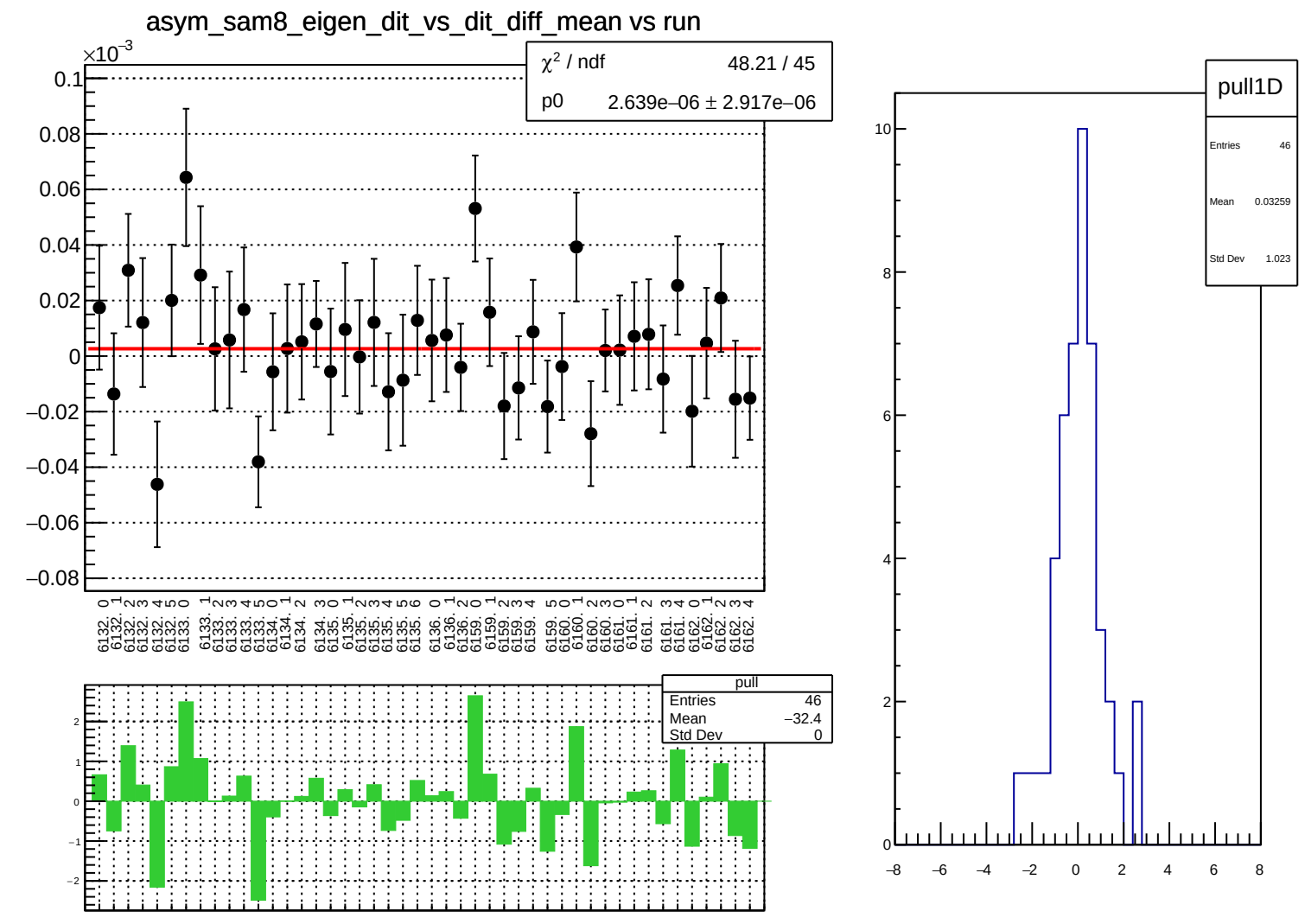

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 47 / 45
p0 0.01387 ± 0.03716
pull
Entries 46
Mean −249.2
Std Dev 0
pull1D
Entries 46
Mean −0.01083
Std Dev 1.011

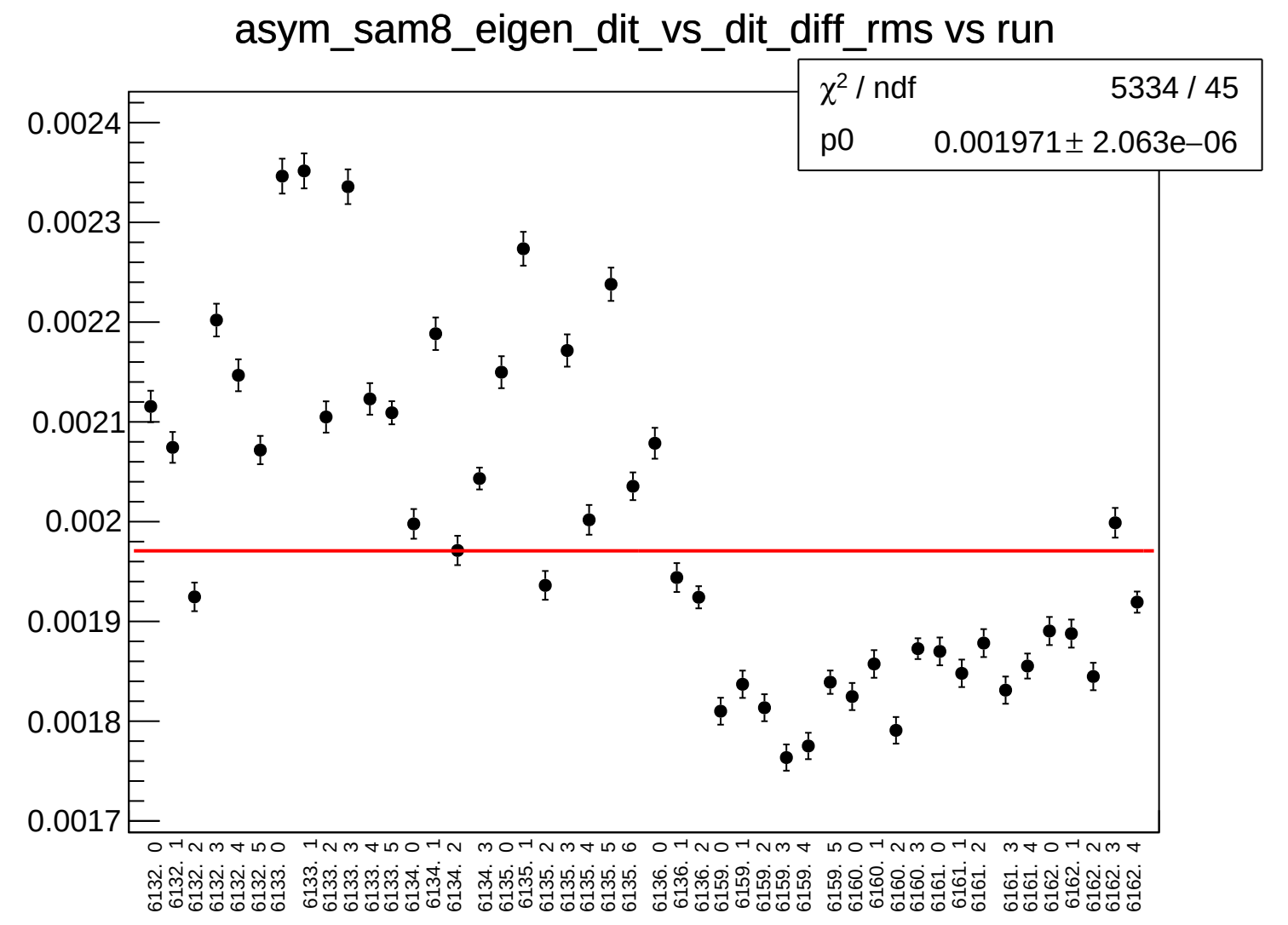

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 7264 / 45
p0 25.08 ± 0.02628
40
35
30
25
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

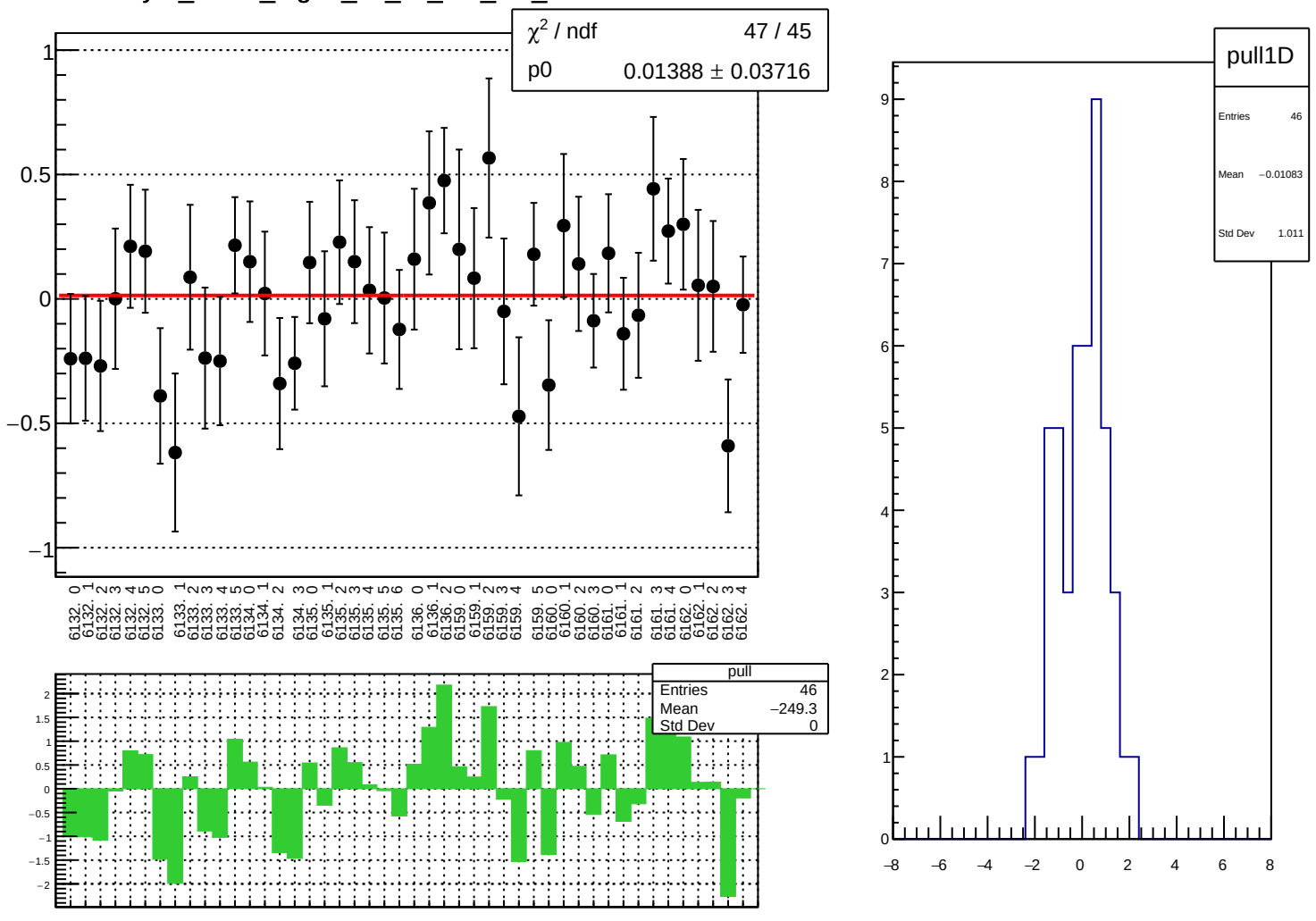

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47 / 45
p0 0.01387 ± 0.03716
pull
Entries 46
Mean −249.2
Std Dev 0

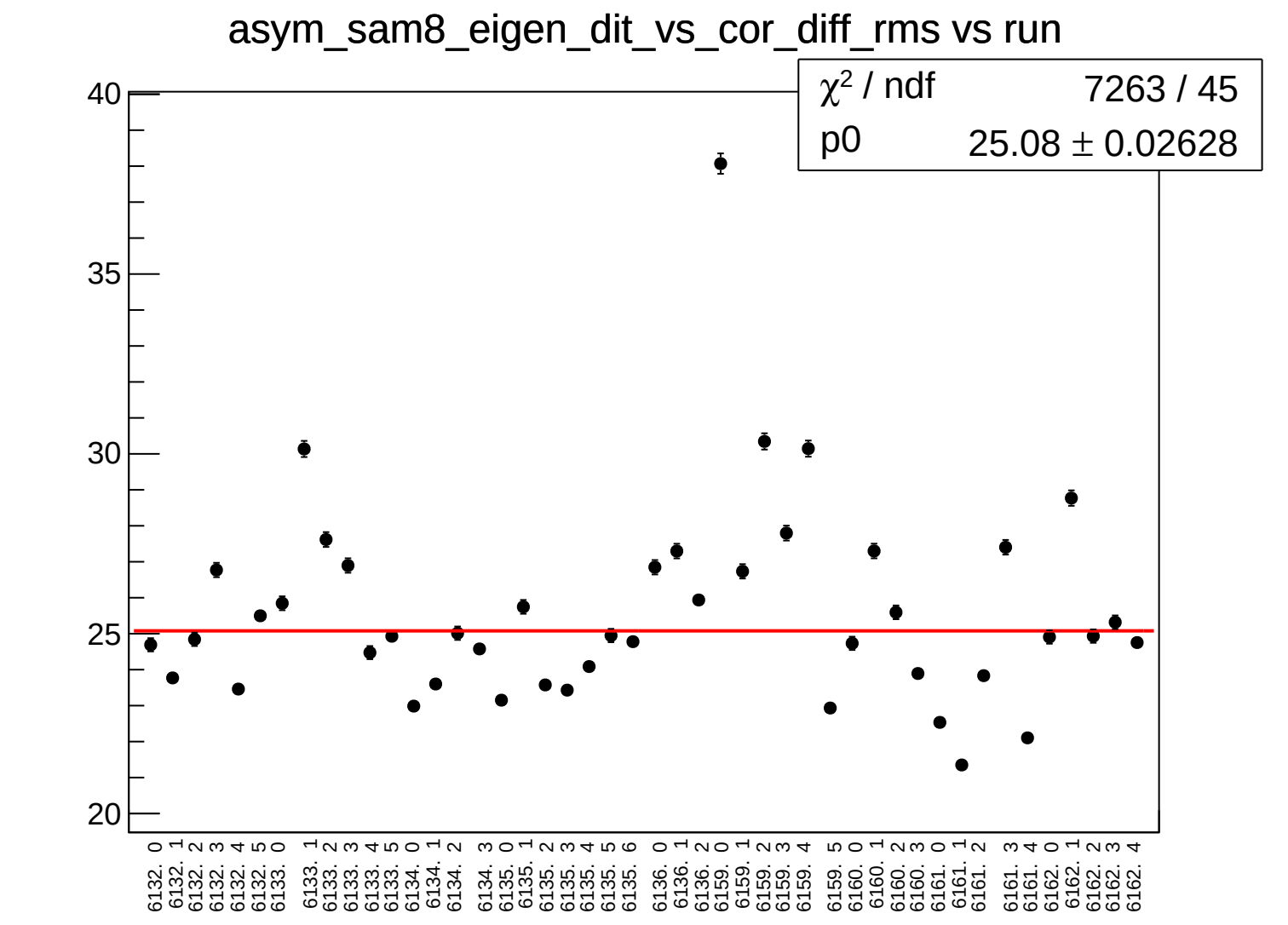

pull1D
Entries 46
Mean −0.01083
Std Dev 1.011

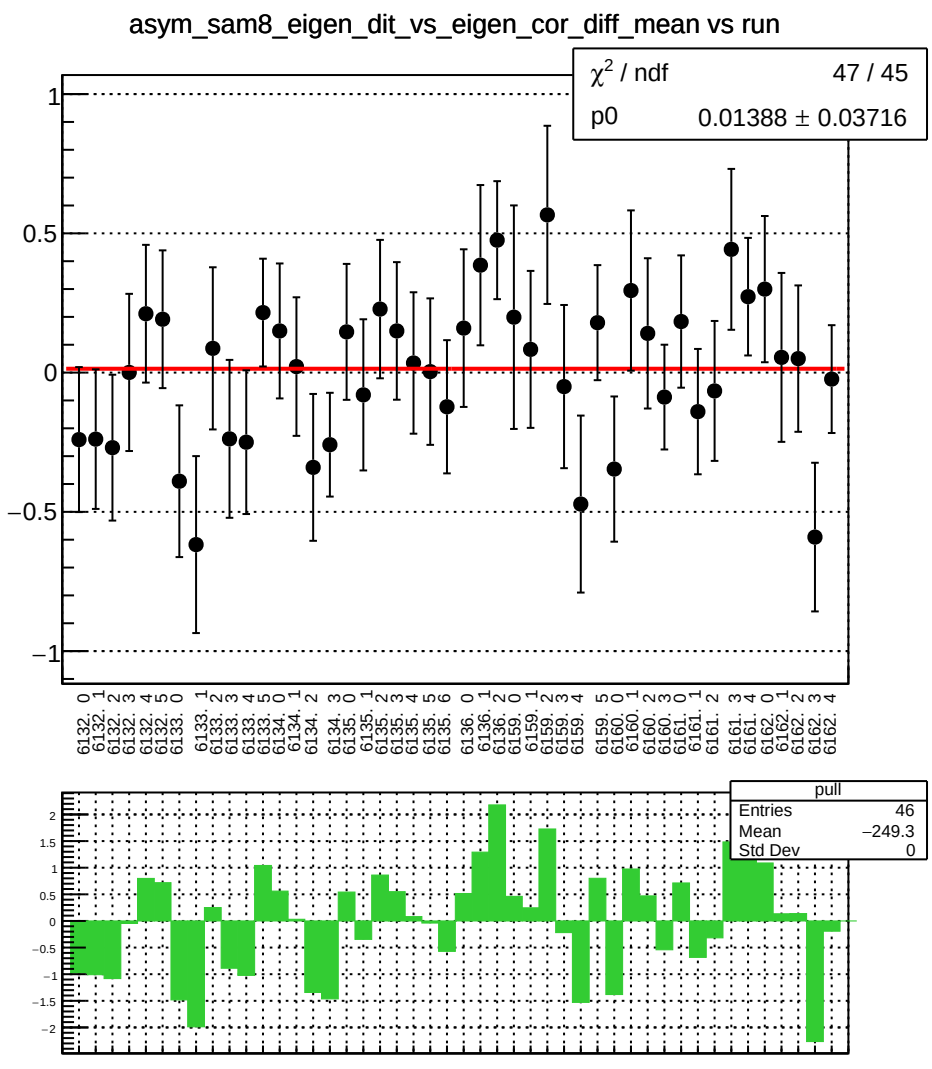

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7264 / 45
p0 25.08 ± 0.02628
40
35
30
25
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

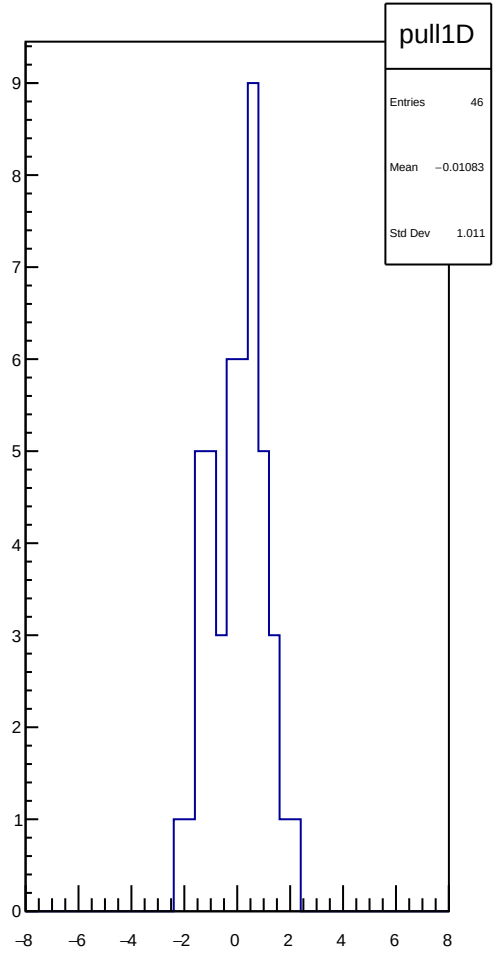

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 48.21 / 45
p0 2.639e−06 ± 2.917e−06
pull
Entries 46
Mean −32.4
Std Dev 0
pull1D
Entries 46
Mean 0.03259
Std Dev 1.023

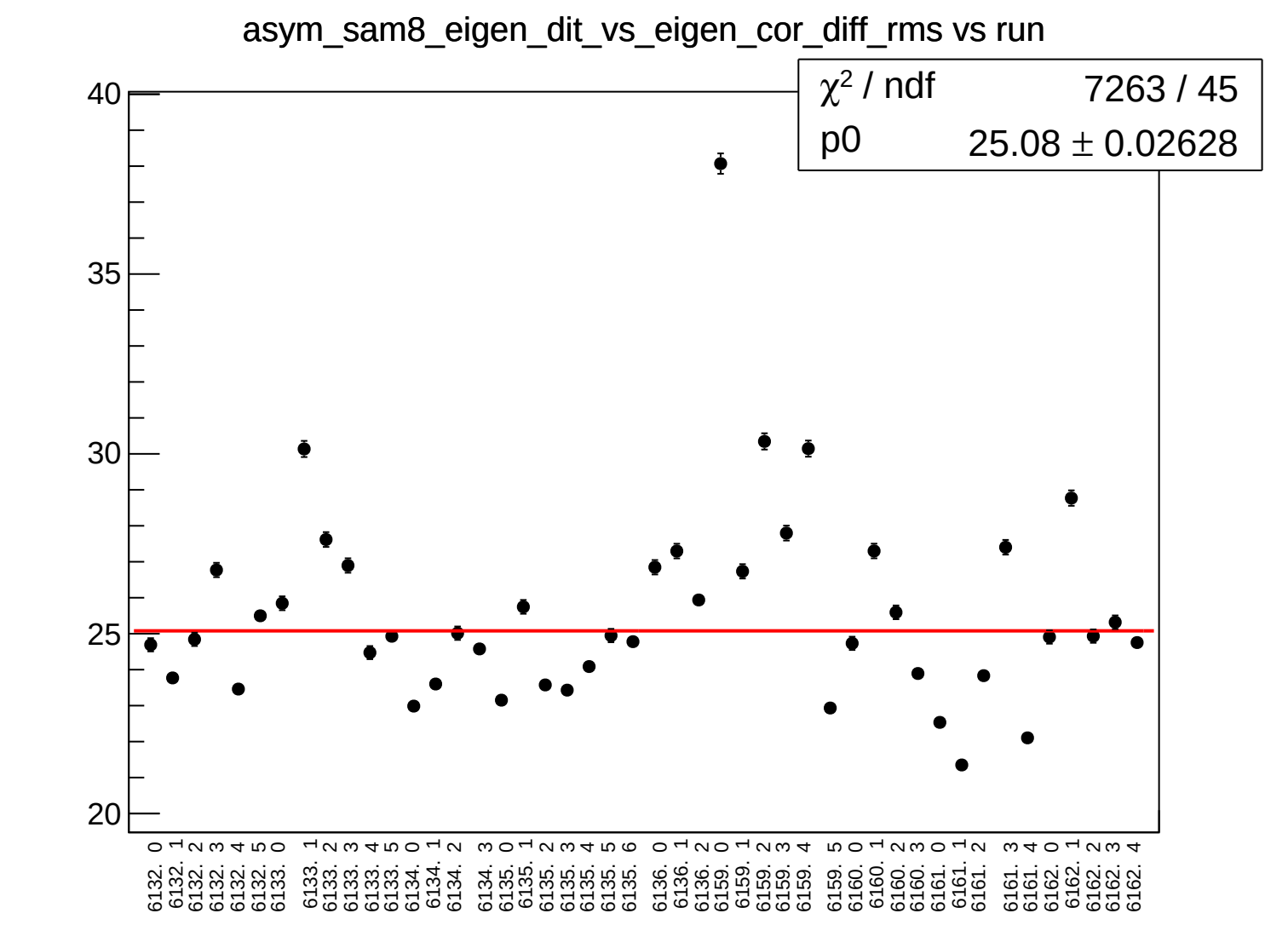

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5334 / 45
p0 0.001971 ± 2.063e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

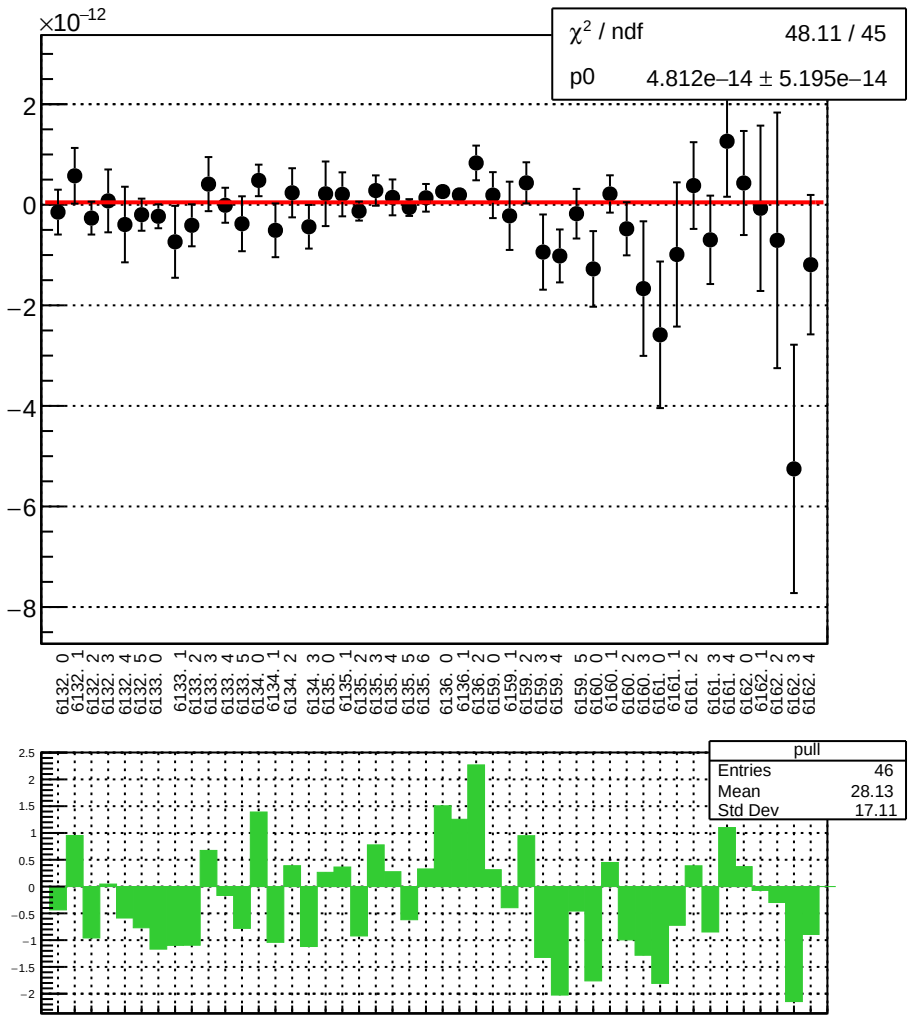

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 47 / 45
p0 0.01388 ± 0.03716
pull
Entries 46
Mean −249.3
Std Dev 0
pull1D
Entries 46
Mean −0.01083
Std Dev 1.011

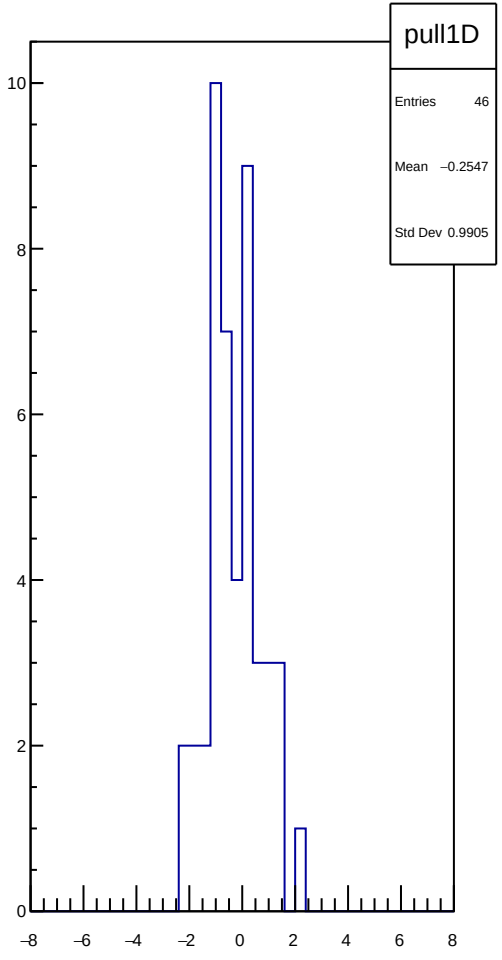

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7263 / 45
p0 25.08 ± 0.02628
40
35
30
25
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

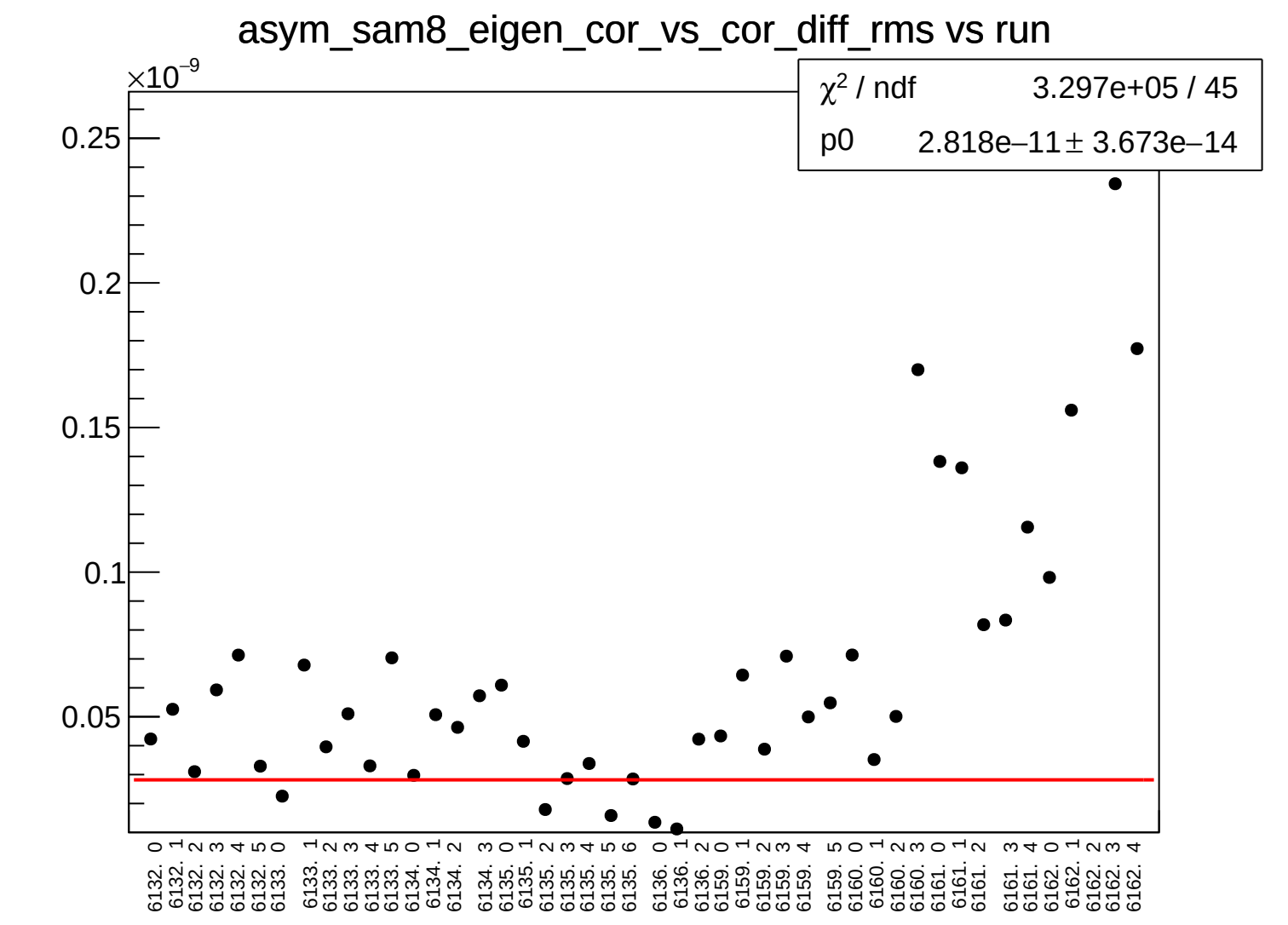

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47 / 45
p0 0.01388 ± 0.03716
pull
Entries 46
Mean −249.3
Std Dev 0


pull1D
Entries 46
Mean −0.01083
Std Dev 1.011


asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7263 / 45
p0 25.08 ± 0.02628
40
35
30
25
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 48.11 / 45
p0 4.812e−14 ± 5.195e−14
pull
Entries 46
Mean 28.13
Std Dev 17.11


pull1D
Entries 46
Mean −0.2547
Std Dev 0.9905


asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.297e+05 / 45
p0 2.818e−11 ± 3.673e−14
0.25
0.2
0.15
0.1
0.05
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
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6135. 5
6135. 6
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6136. 2
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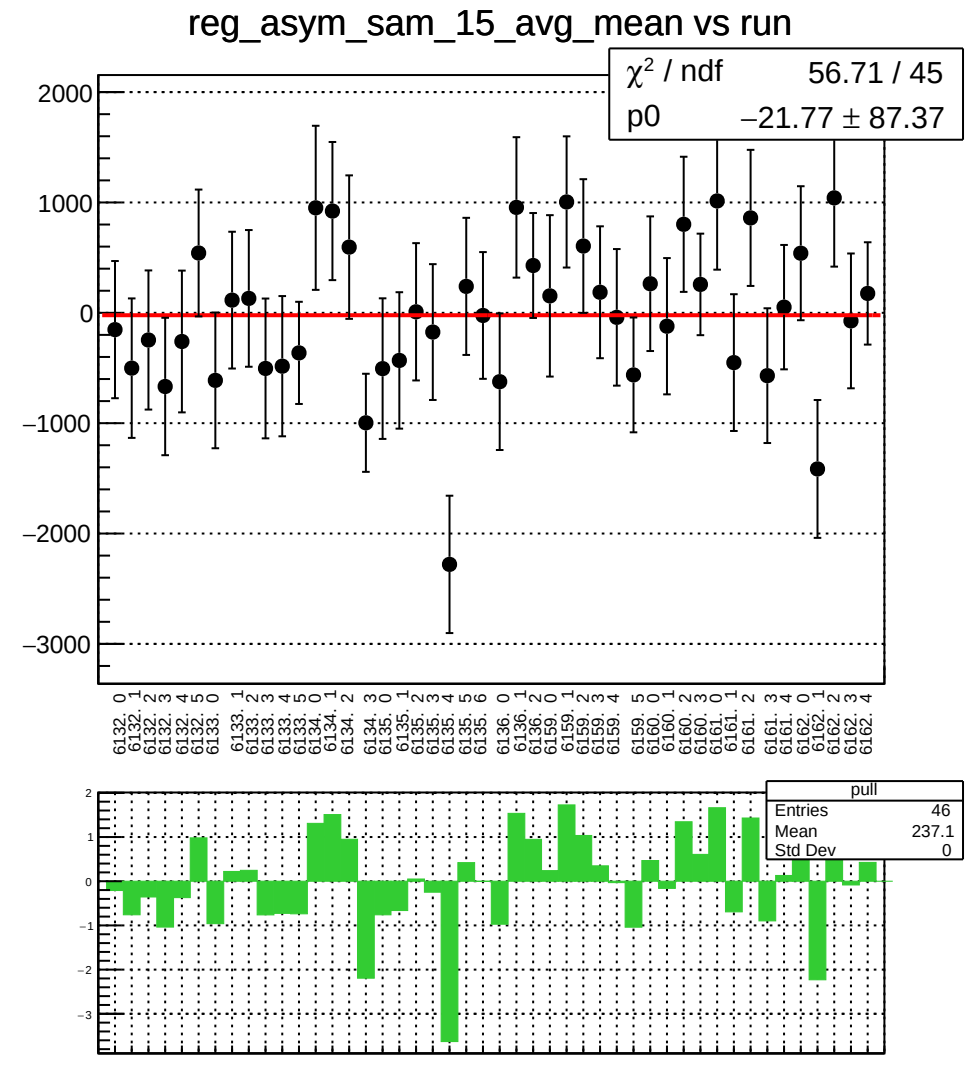
reg_asym_sam_15_avg_mean vs run
χ² / ndf 56.71 / 45
p0 −21.77 ± 87.37
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6135. 6
6136. 0
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6136. 2
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
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6160. 2
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6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
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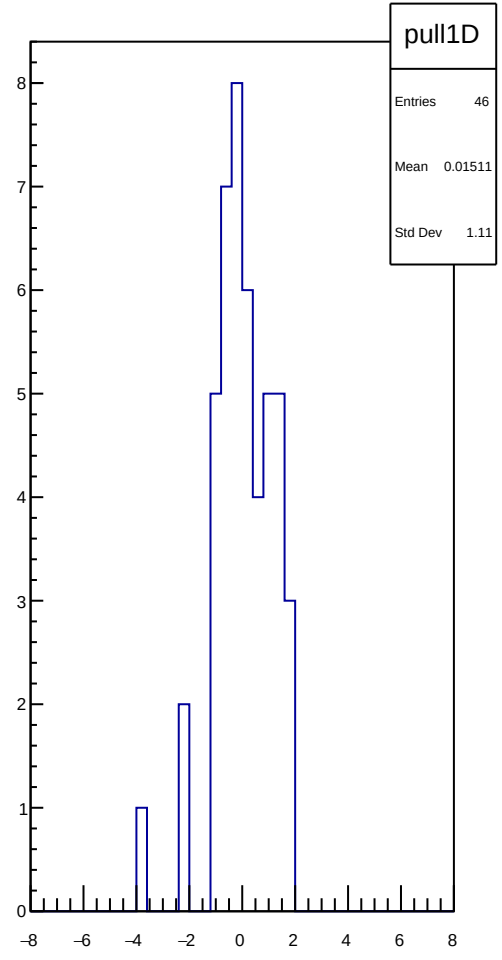
6162. 4
pull
Entries 46
Mean 237.1
Std Dev 0
2
1
0
−1
−2
−3


pull1D
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Mean 0.01511
Std Dev 1.11
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5
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1
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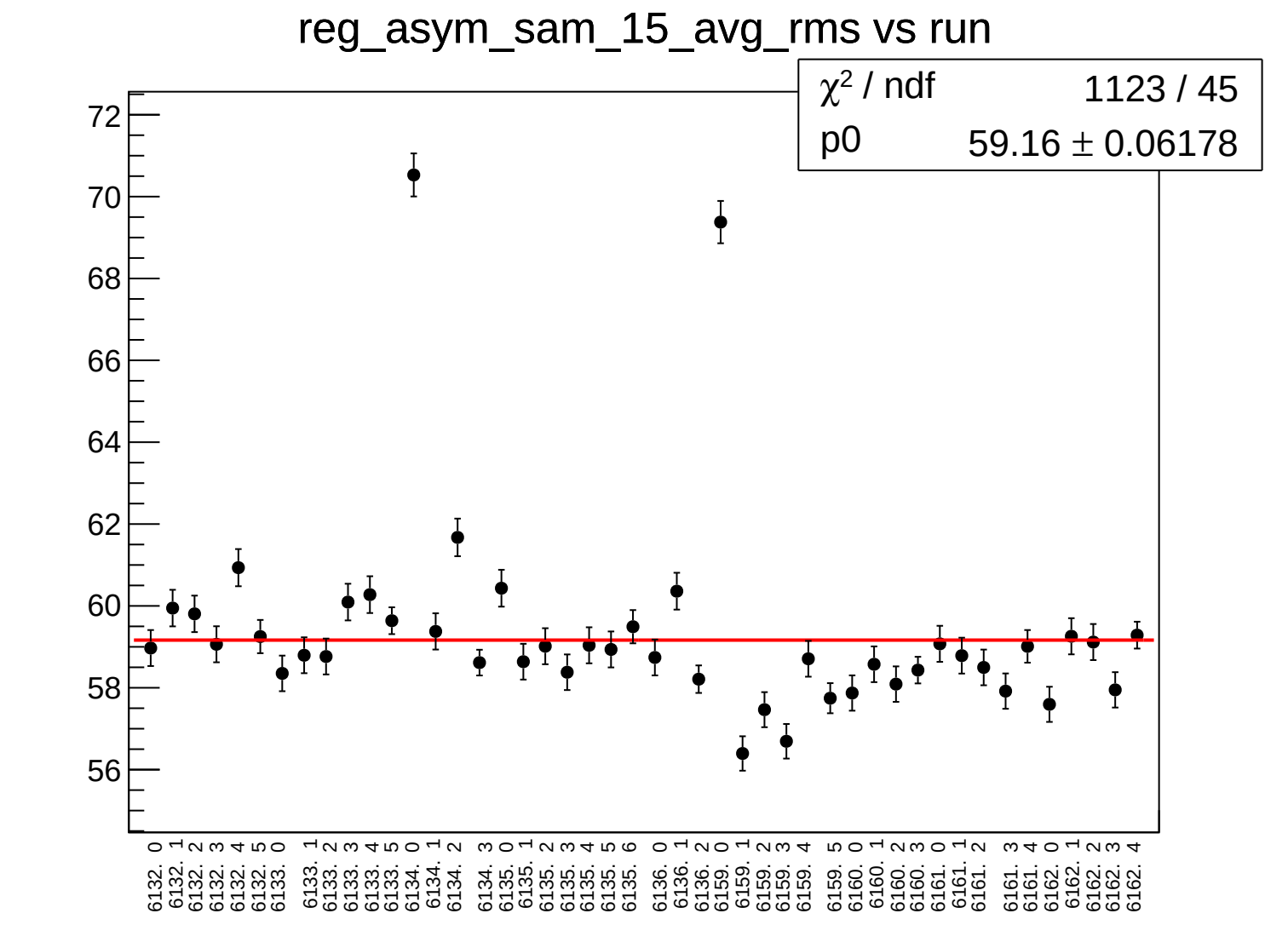
2
4
6
8


reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 1123 / 45
p0 59.16 ± 0.06178
72
70
68
66
64
62
60
58
56
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 3
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6159. 2
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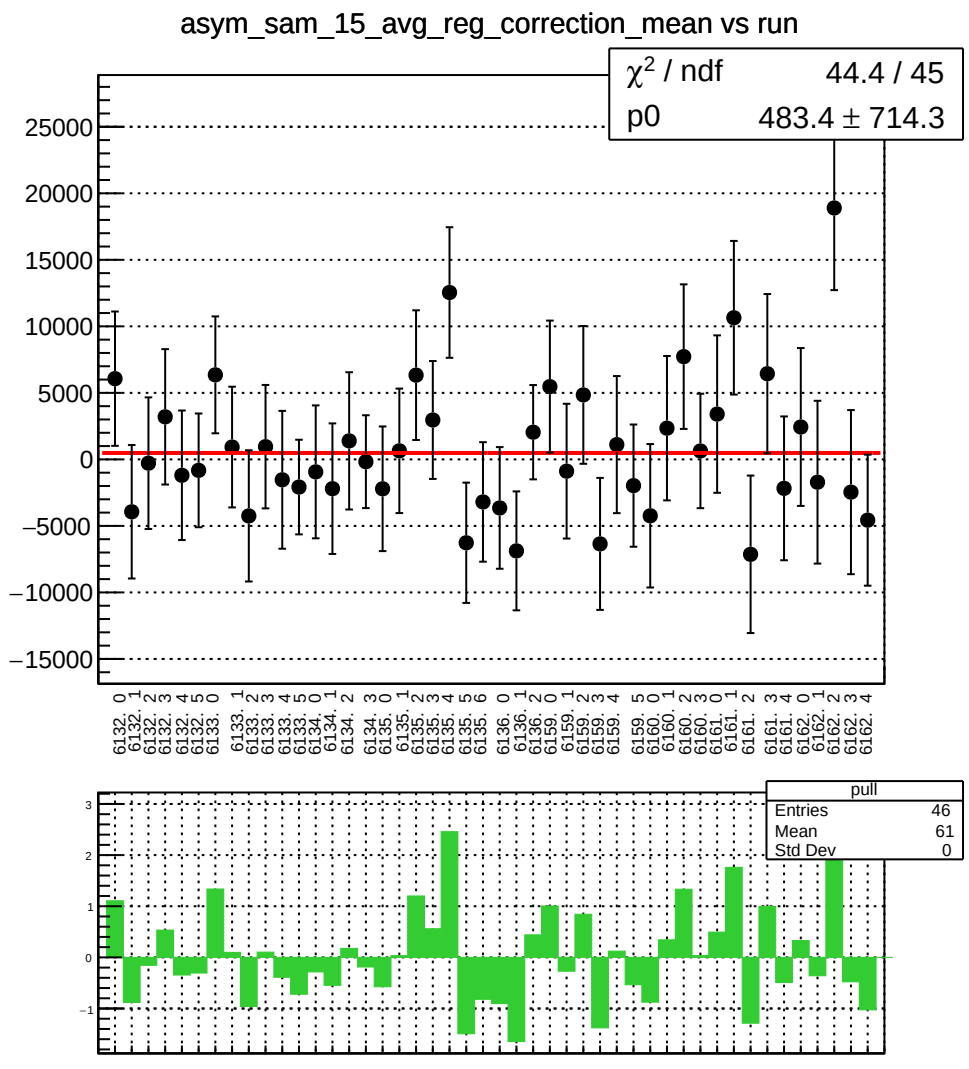
asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 44.4 / 45
p0 483.4 ± 714.3
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6135. 6
6136. 0
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6136. 2
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6159. 5
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6161. 1
6161. 2
6161. 3
6161. 4
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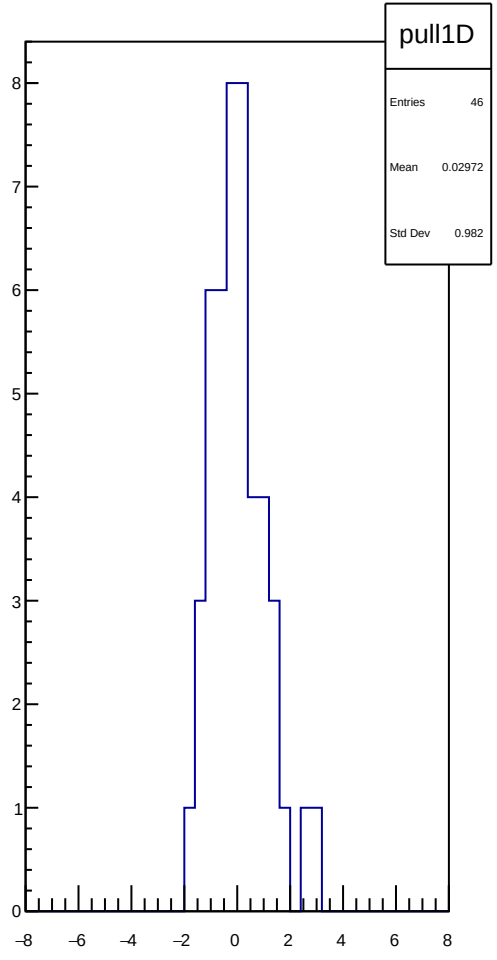
pull
Entries 46
Mean 61
Std Dev 0
3
2
1
0
−1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Mean 0.02972
Std Dev 0.982
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−4
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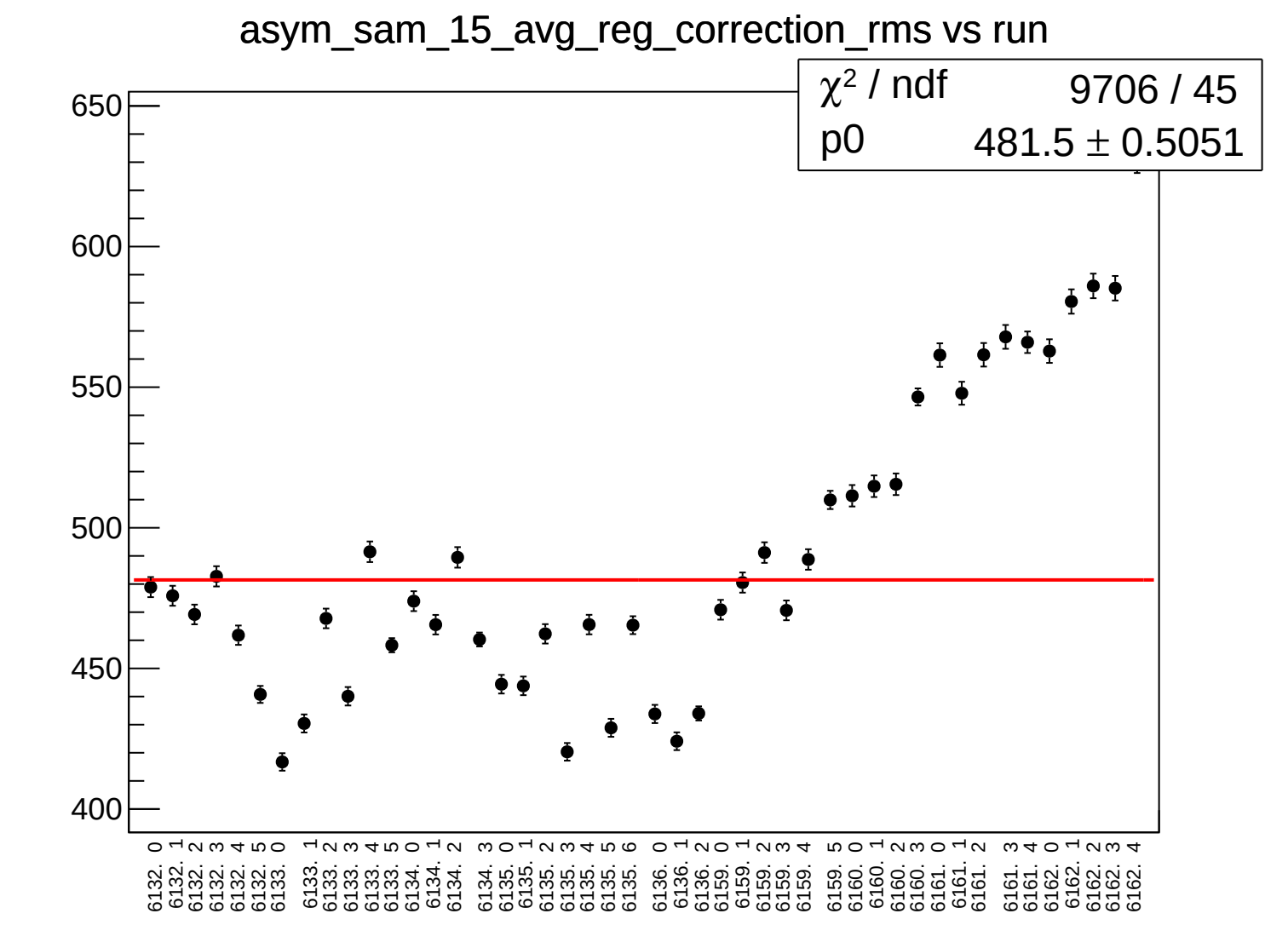
8


asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 9706 / 45
p0 481.5 ± 0.5051
650
600
550
500
450
400
6132. 0
6132. 1
6132. 2
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6132. 5
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6133. 4
6133. 5
6134. 0
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6136. 2
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6160. 0
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6160. 2
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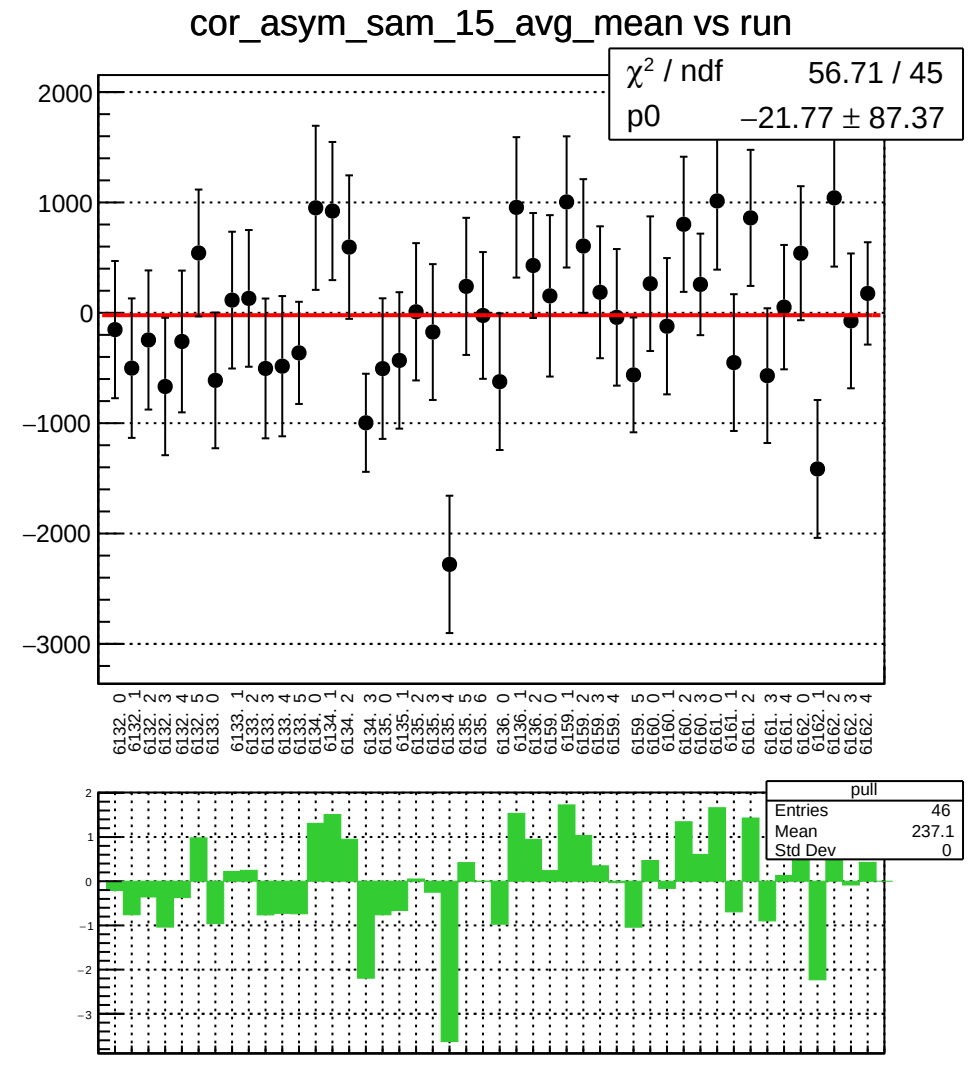
cor_asym_sam_15_avg_mean vs run
χ² / ndf 56.71 / 45
p0 −21.77 ± 87.37
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
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6134. 2
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6135. 6
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pull
Entries 46
Mean 237.1
Std Dev 0
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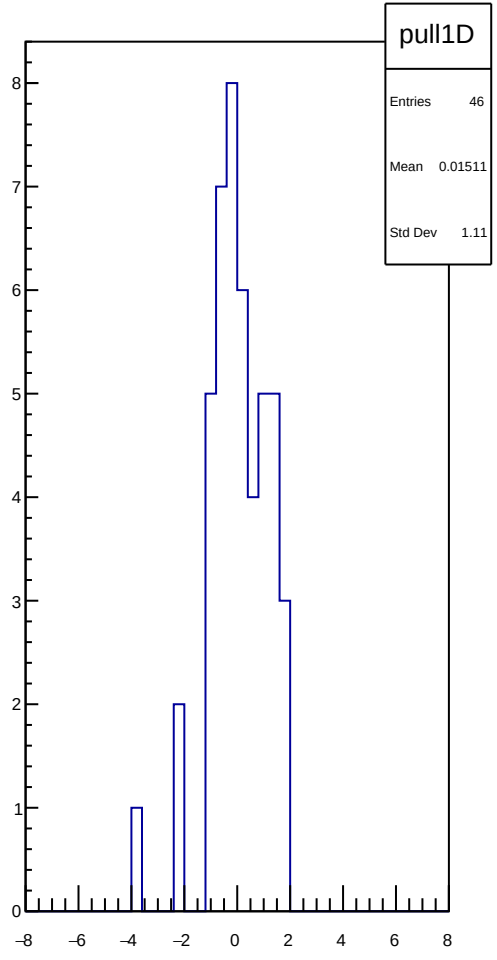
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Std Dev 1.11
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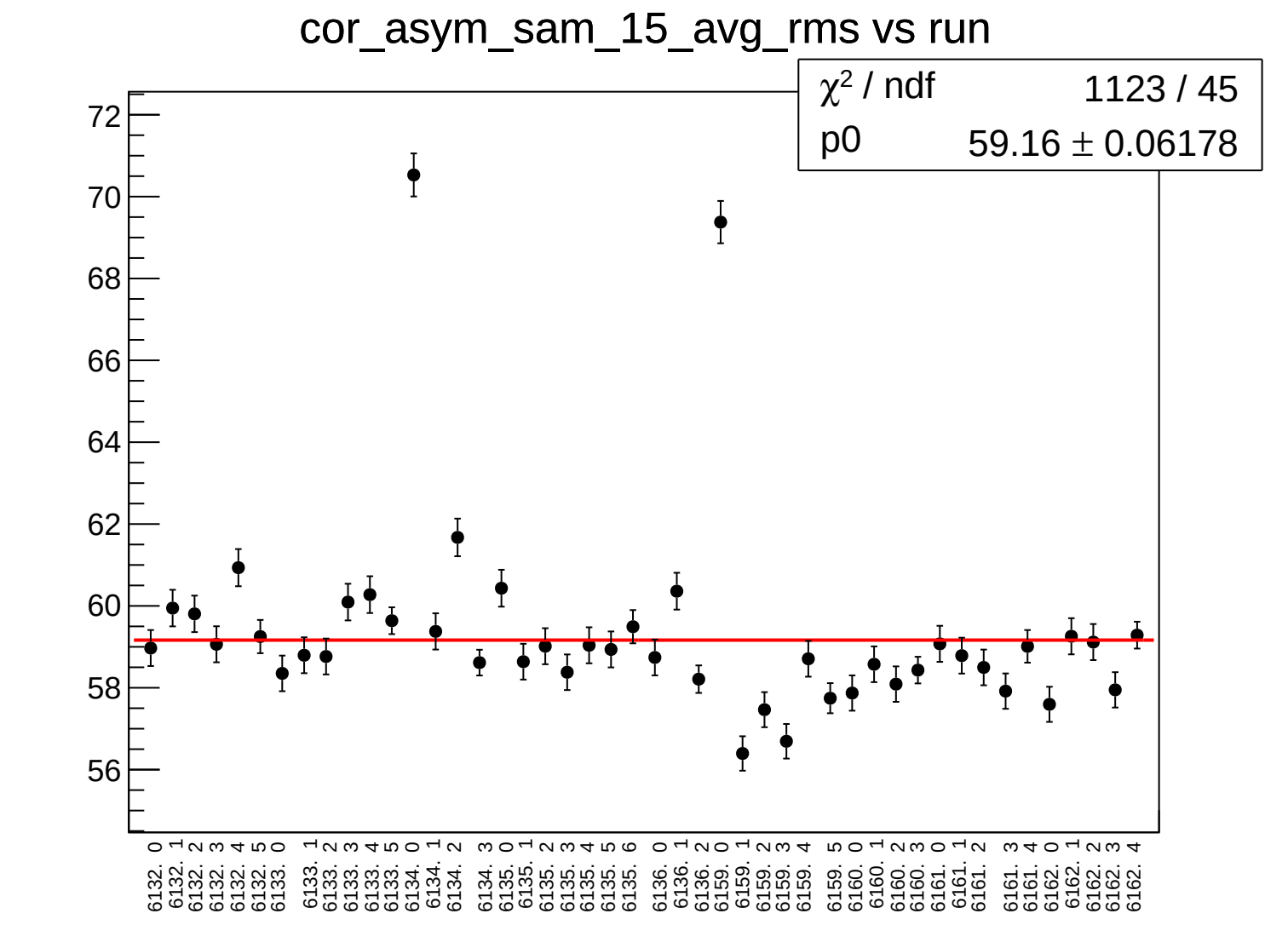
cor_asym_sam_15_avg_rms vs run
χ² / ndf 1123 / 45
p0 59.16 ± 0.06178
72
70
68
66
64
62
60
58
56
6132. 0
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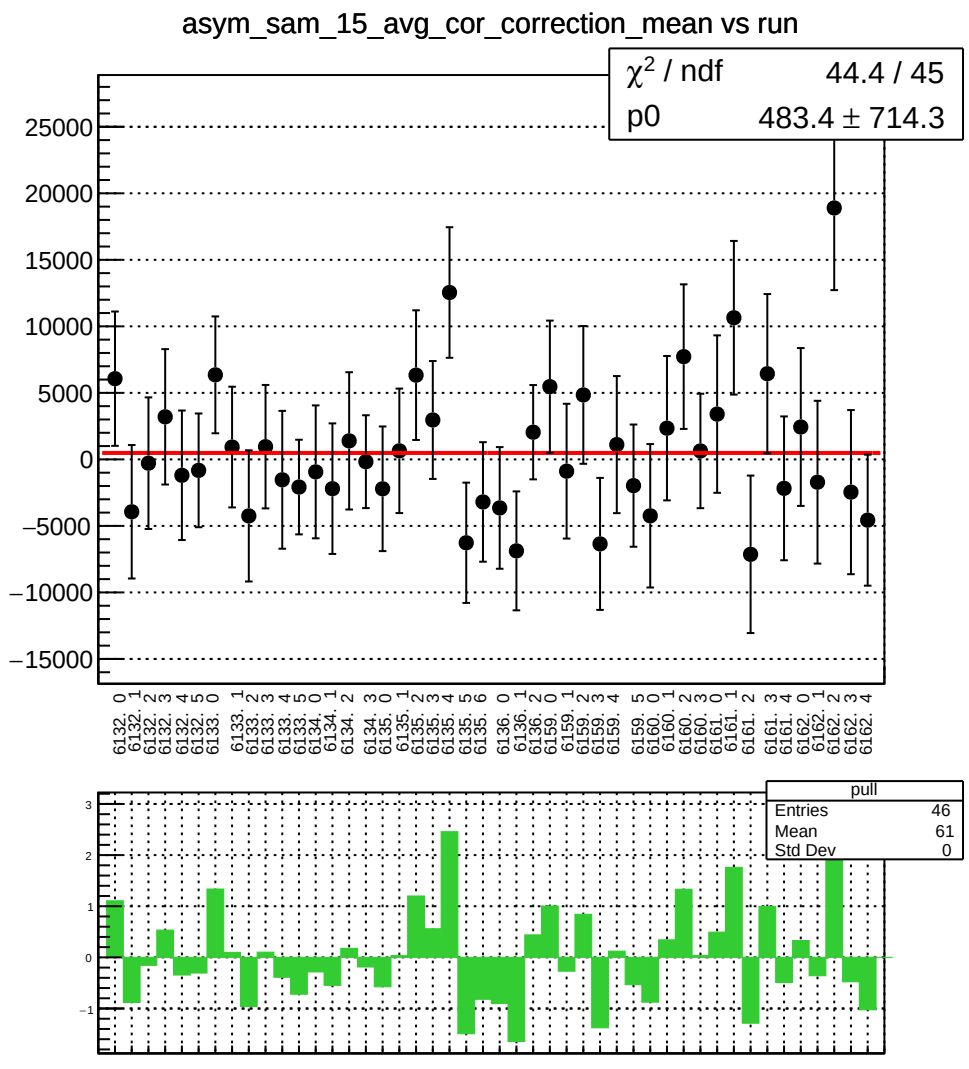
asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 44.4 / 45
p0 483.4 ± 714.3
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6132. 0
6132. 1
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6161. 2
6161. 3
6161. 4
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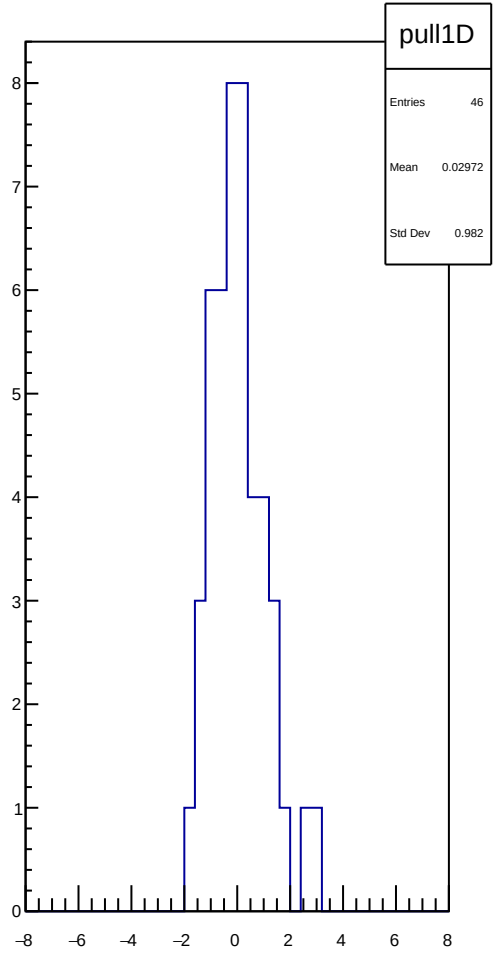
pull
Entries 46
Mean 61
Std Dev 0
3
2
1
0
−1


pull1D
Entries 46
Mean 0.02972
Std Dev 0.982
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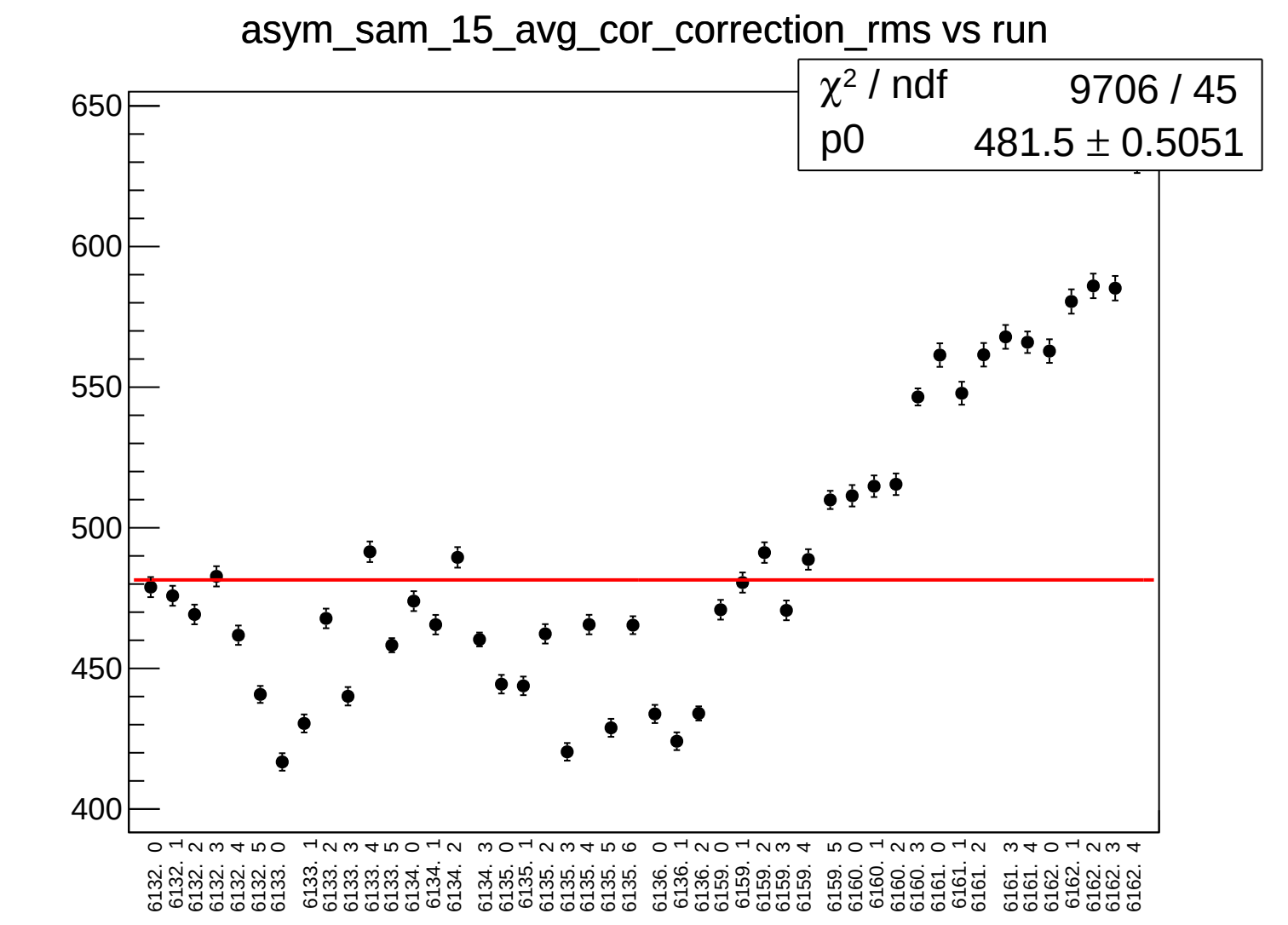
asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 9706 / 45
p0 481.5 ± 0.5051
650
600
550
500
450
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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6134. 0
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6159. 5
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6160. 1
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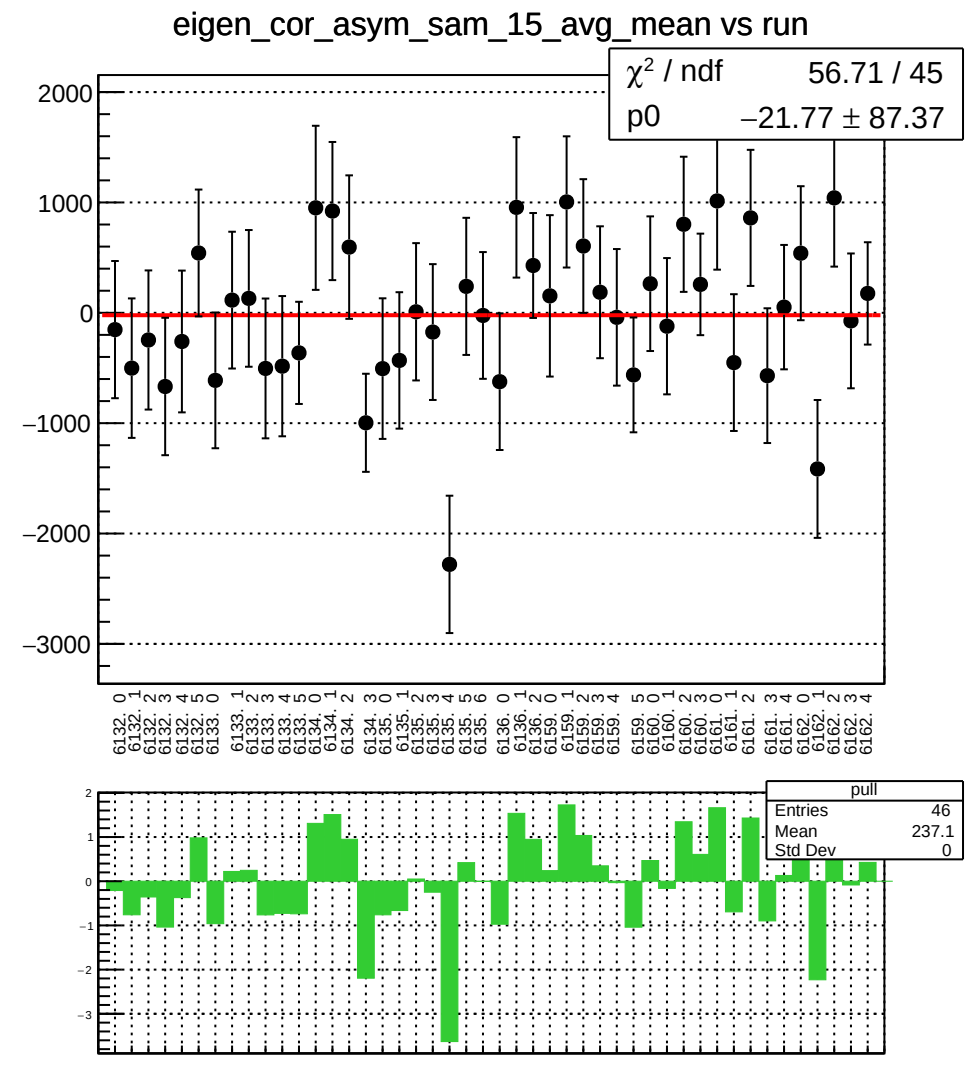
eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 56.71 / 45
p0 −21.77 ± 87.37
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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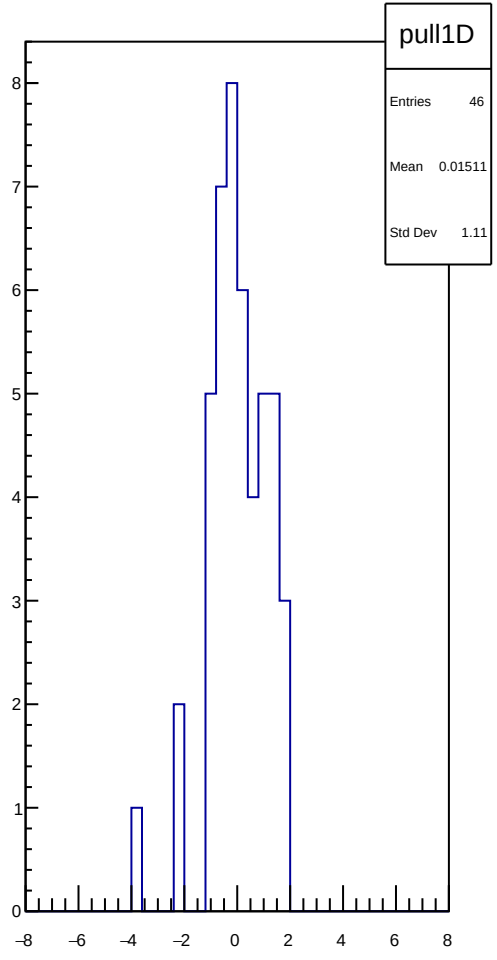
pull
Entries 46
Mean 237.1
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean 0.01511
Std Dev 1.11
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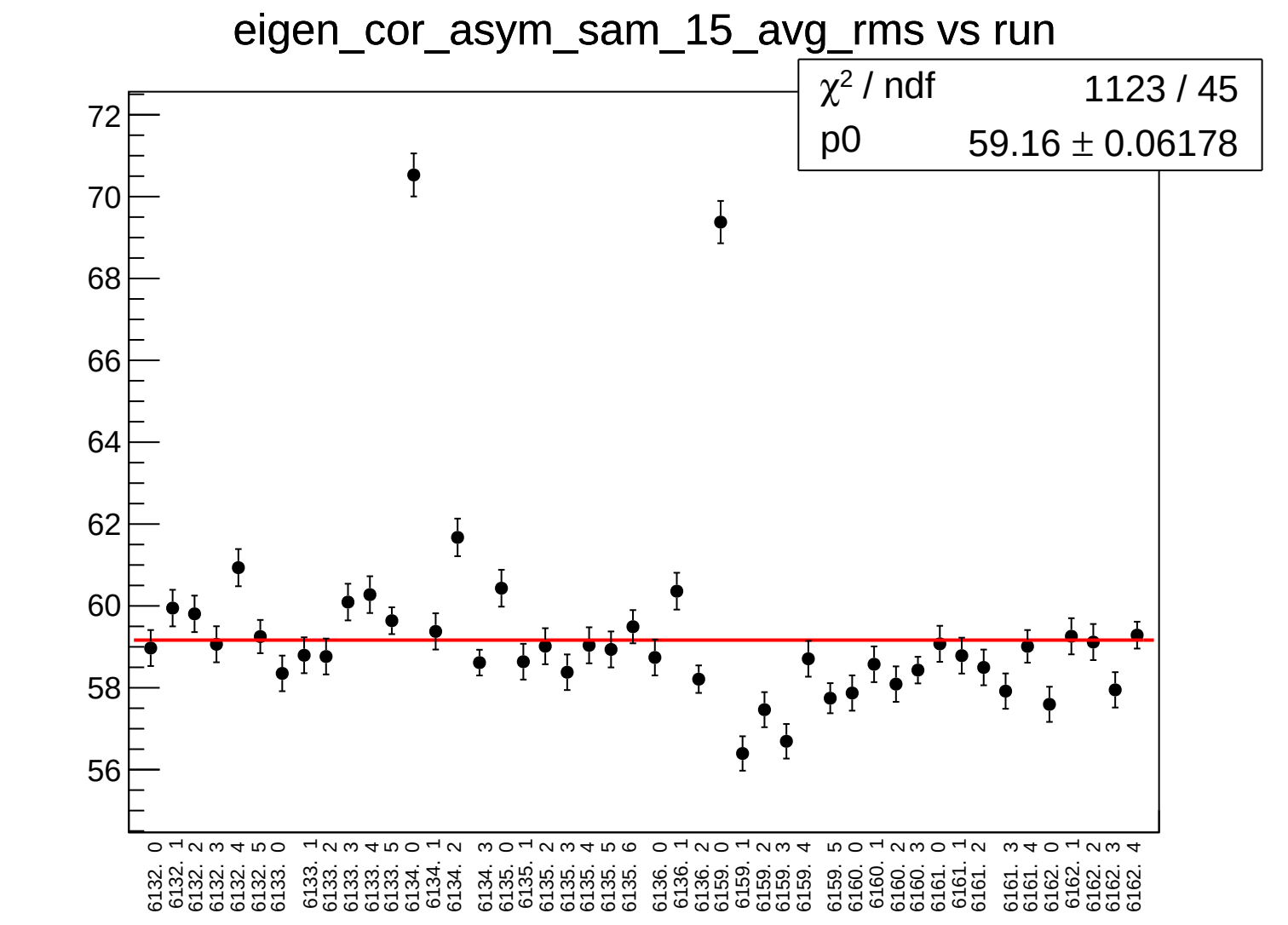
eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 1123 / 45
p0 59.16 ± 0.06178
72
70
68
66
64
62
60
58
56
6132. 0
6132. 1
6132. 2
6132. 3
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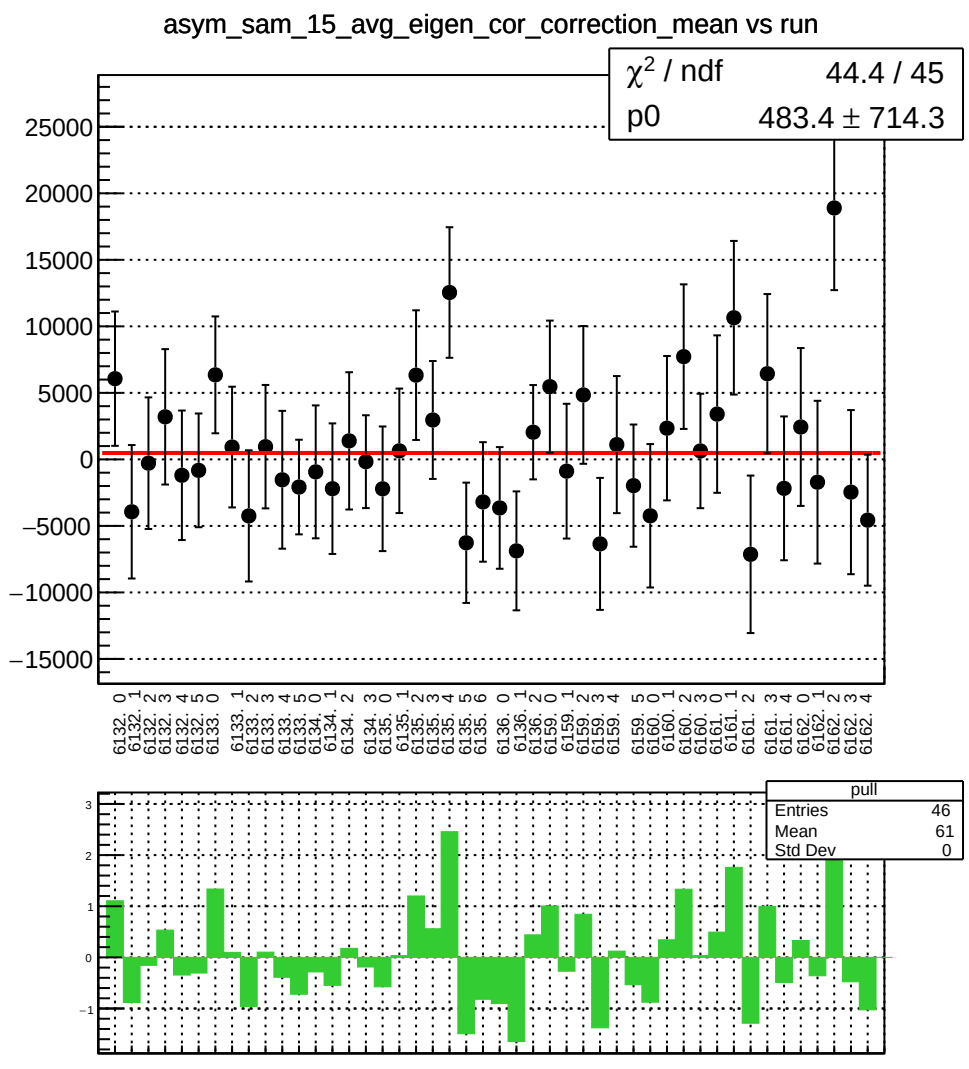
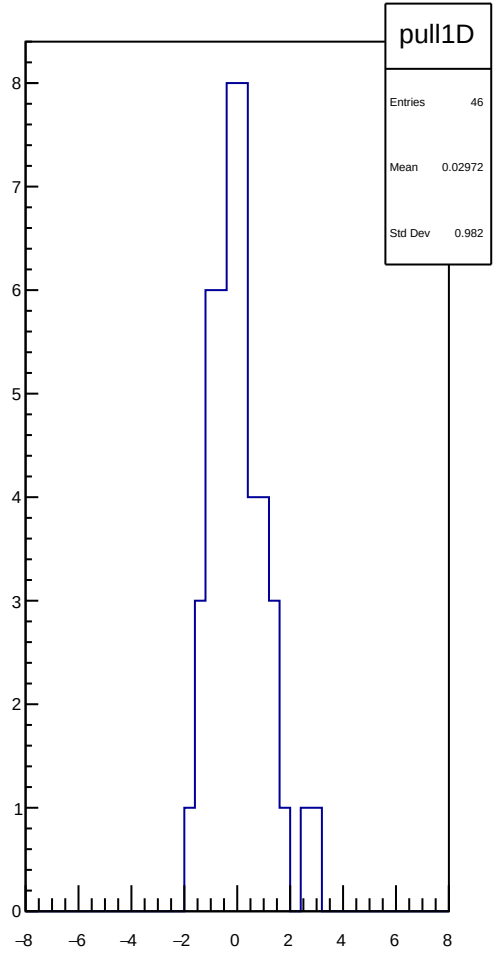
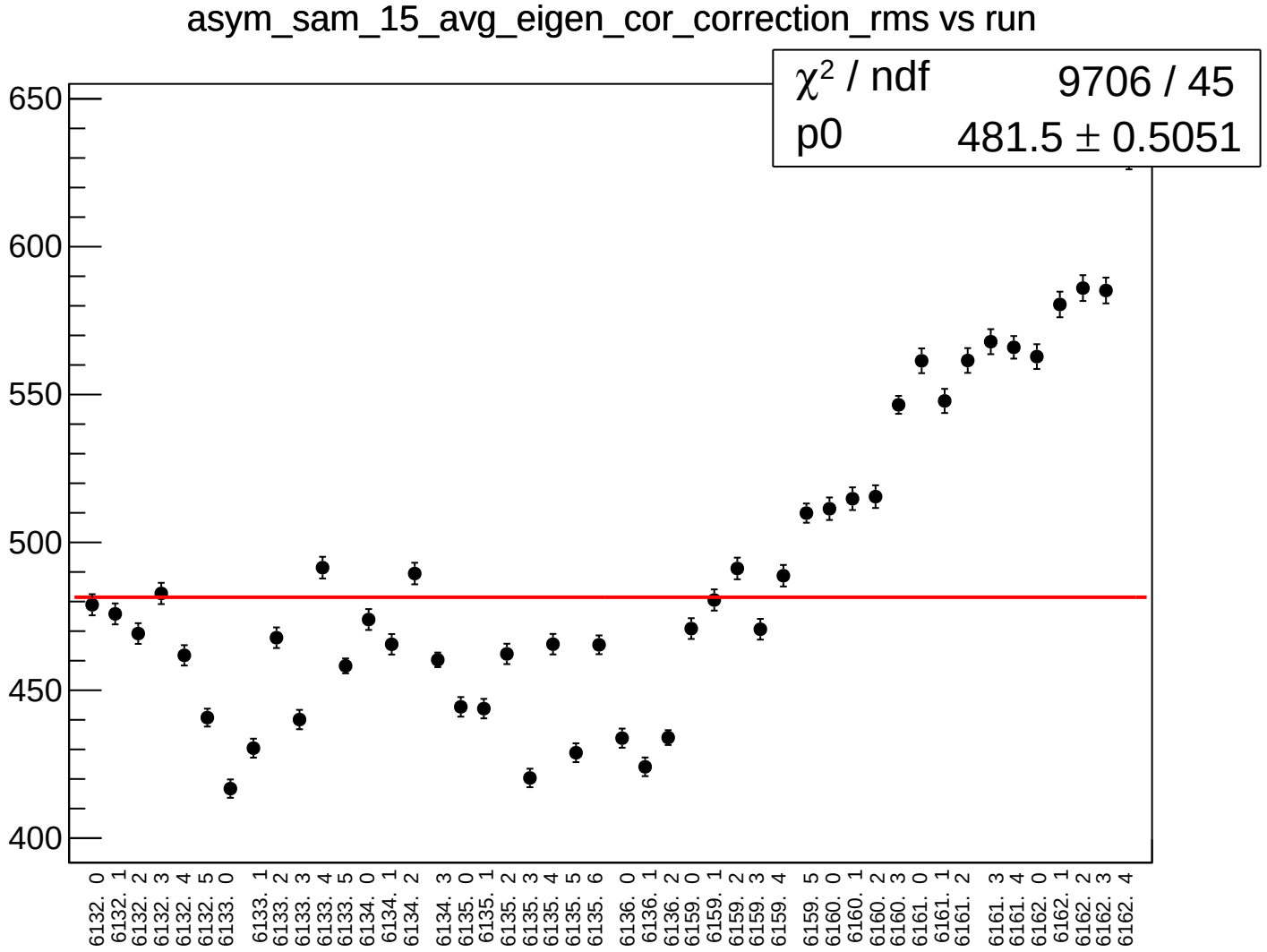

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 44.4 / 45
p0 483.4 ± 714.3
pull
Entries 46
Mean 61
Std Dev 0


pull1D
Entries 46
Mean 0.02972
Std Dev 0.982


asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 9706 / 45
p0 481.5 ± 0.5051
650
600
550
500
450
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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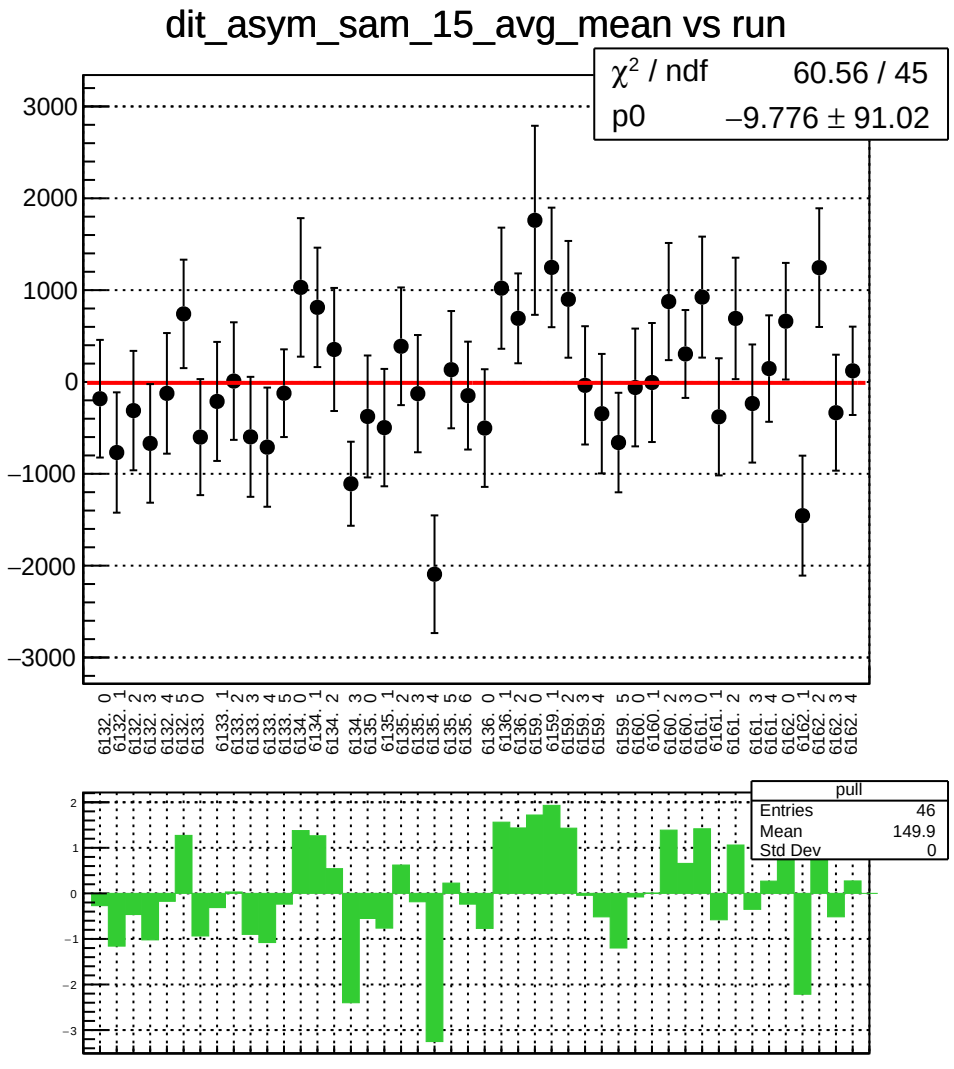
dit_asym_sam_15_avg_mean vs run
χ² / ndf 60.56 / 45
p0 −9.776 ± 91.02
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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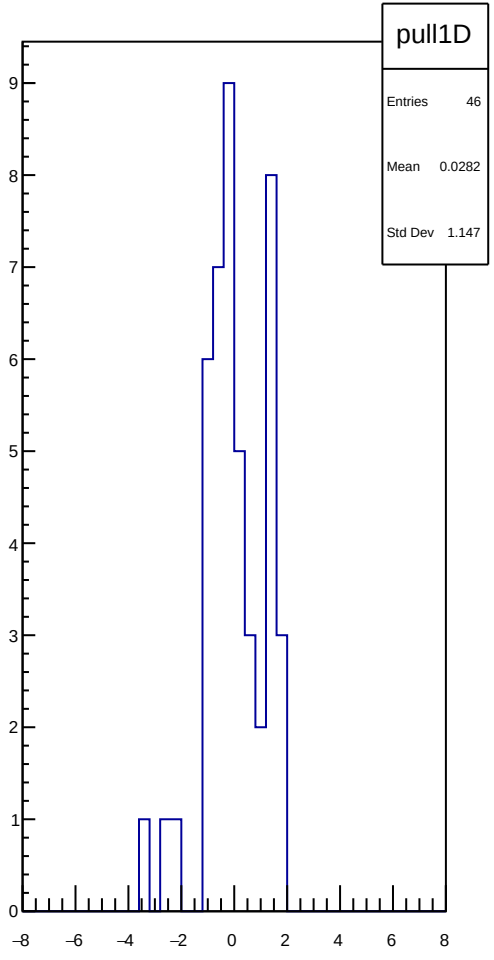
pull
Entries 46
Mean 149.9
Std Dev 0
2
1
0
−1
−2
−3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Mean 0.0282
Std Dev 1.147
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5
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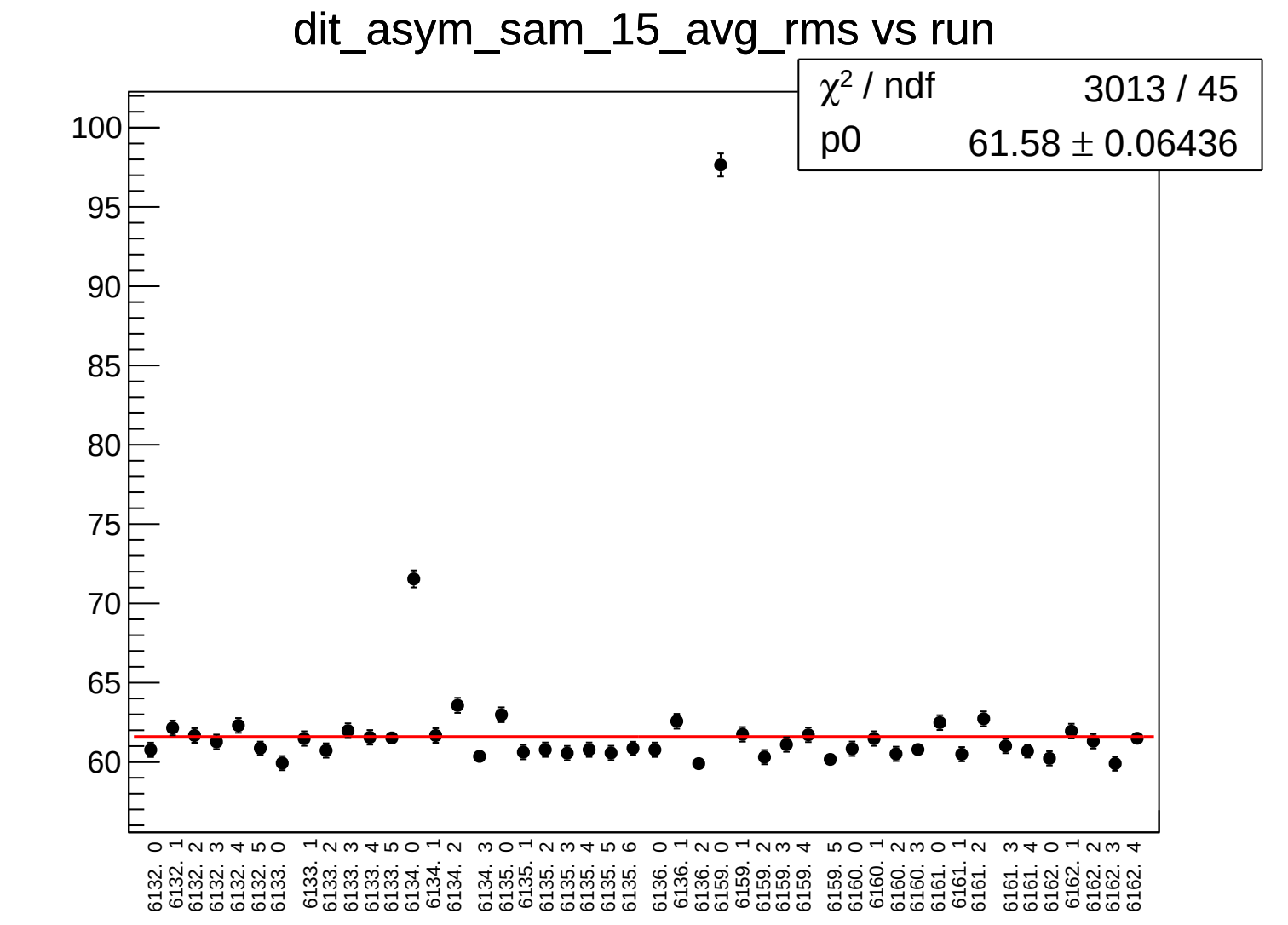
2
4
6
8


dit_asym_sam_15_avg_rms vs run
χ² / ndf 3013 / 45
p0 61.58 ± 0.06436
100
95
90
85
80
75
70
65
60
6132. 0
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6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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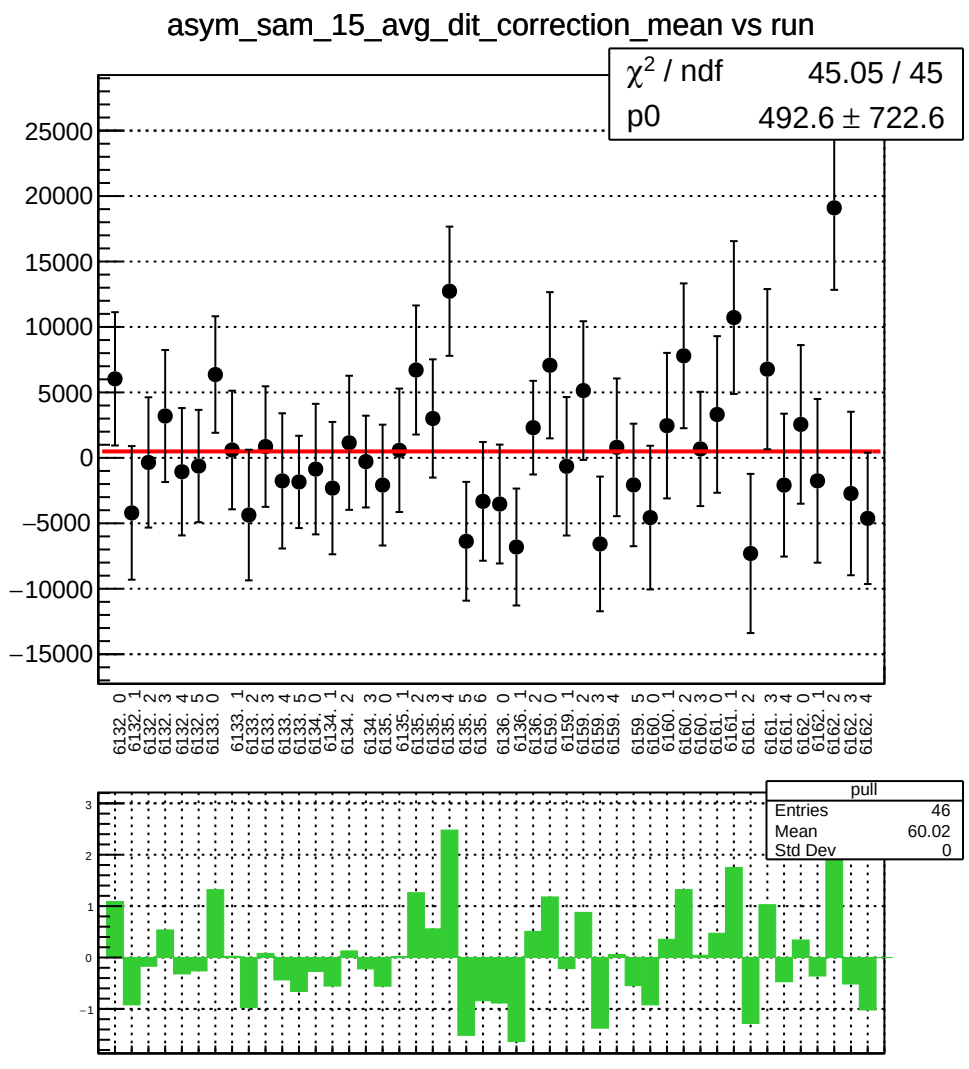
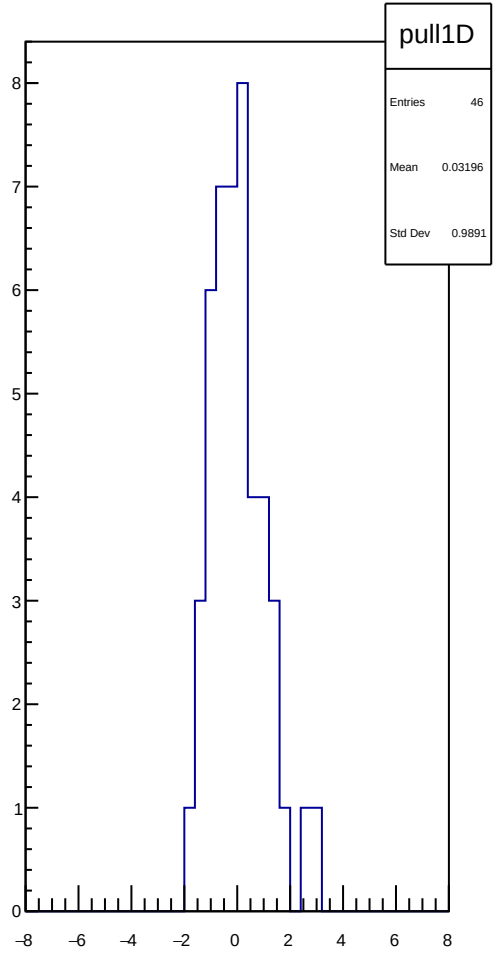
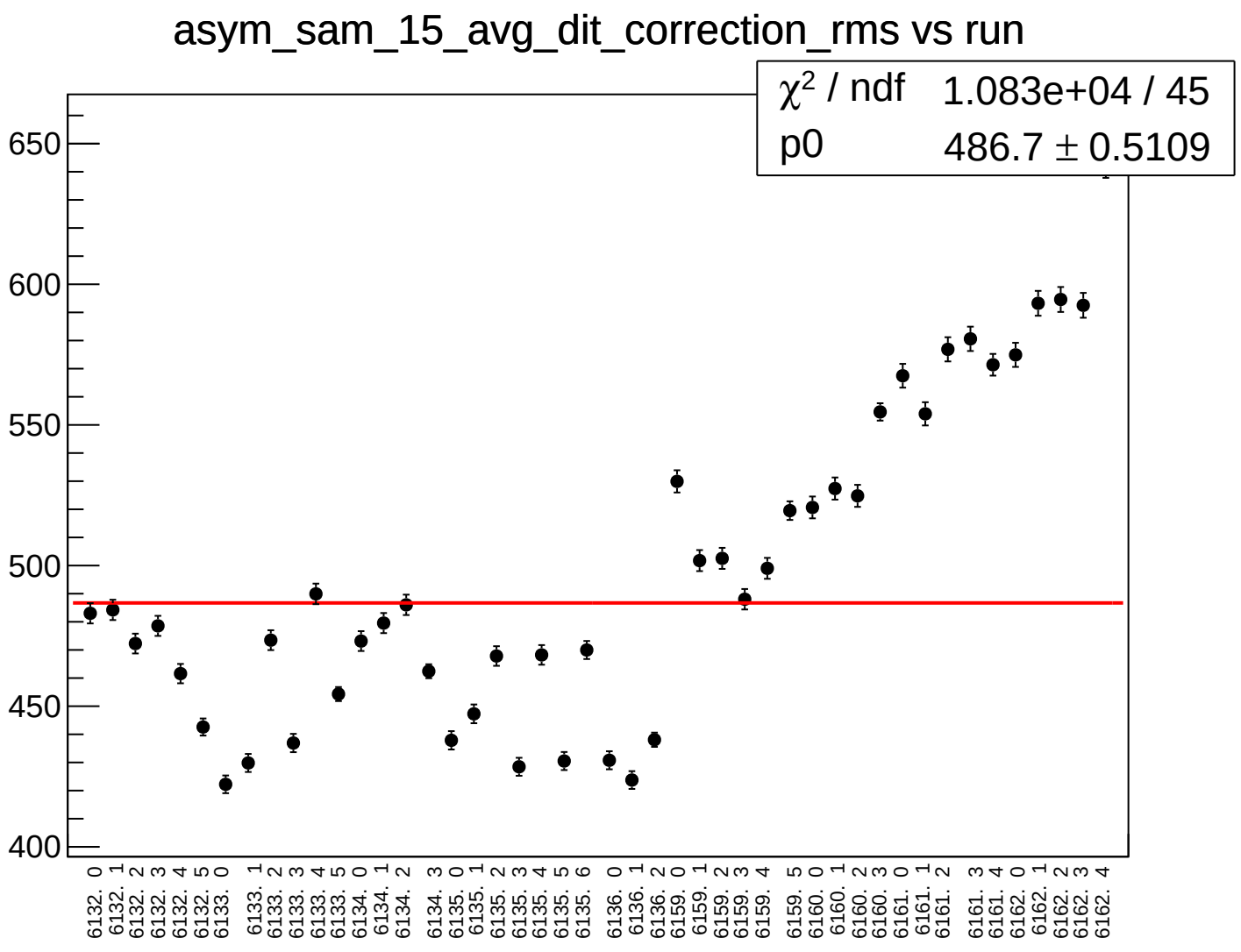
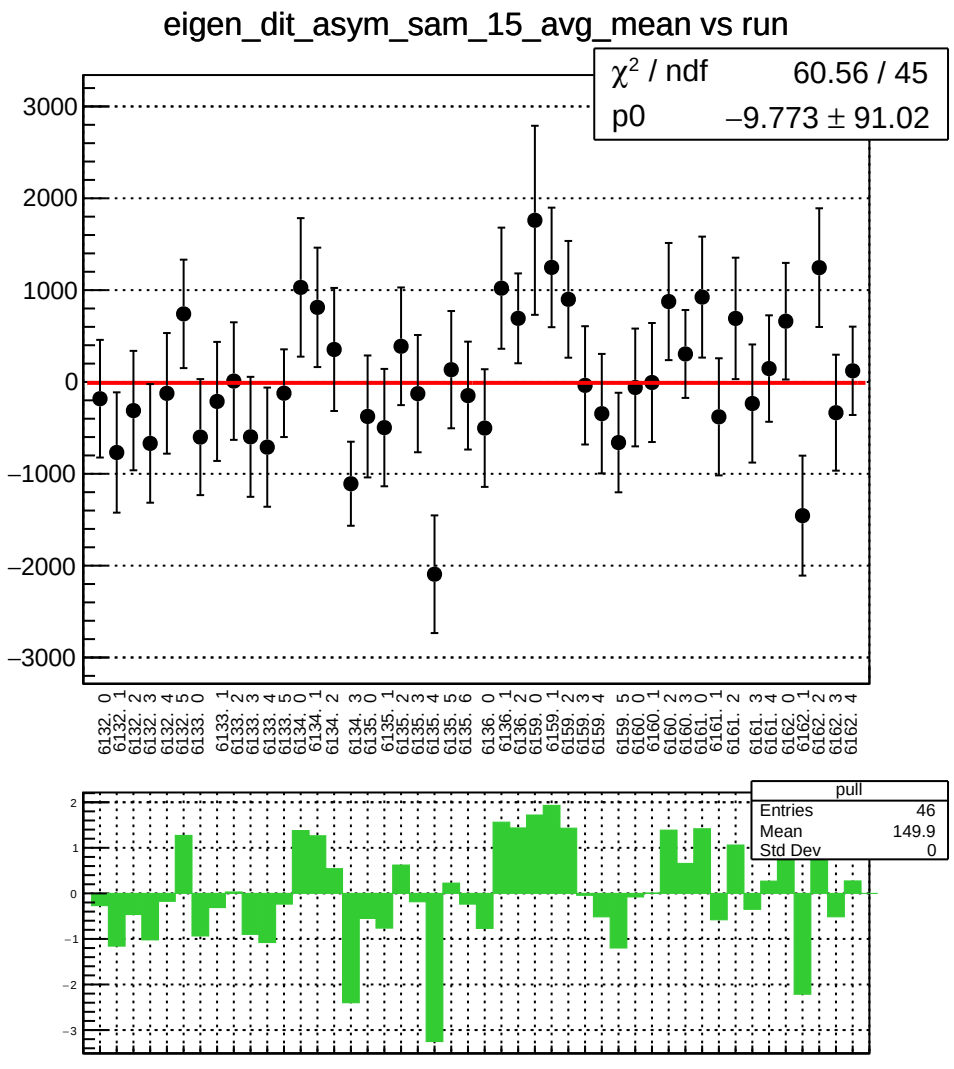
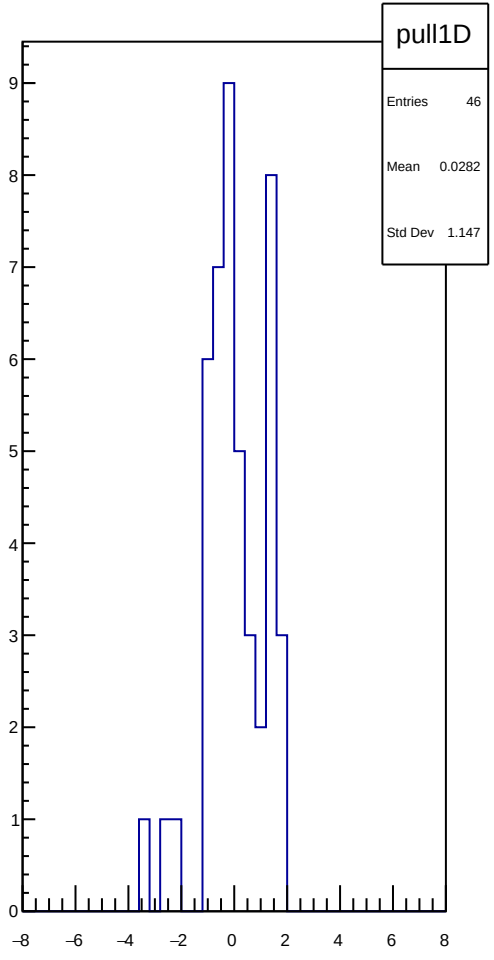
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

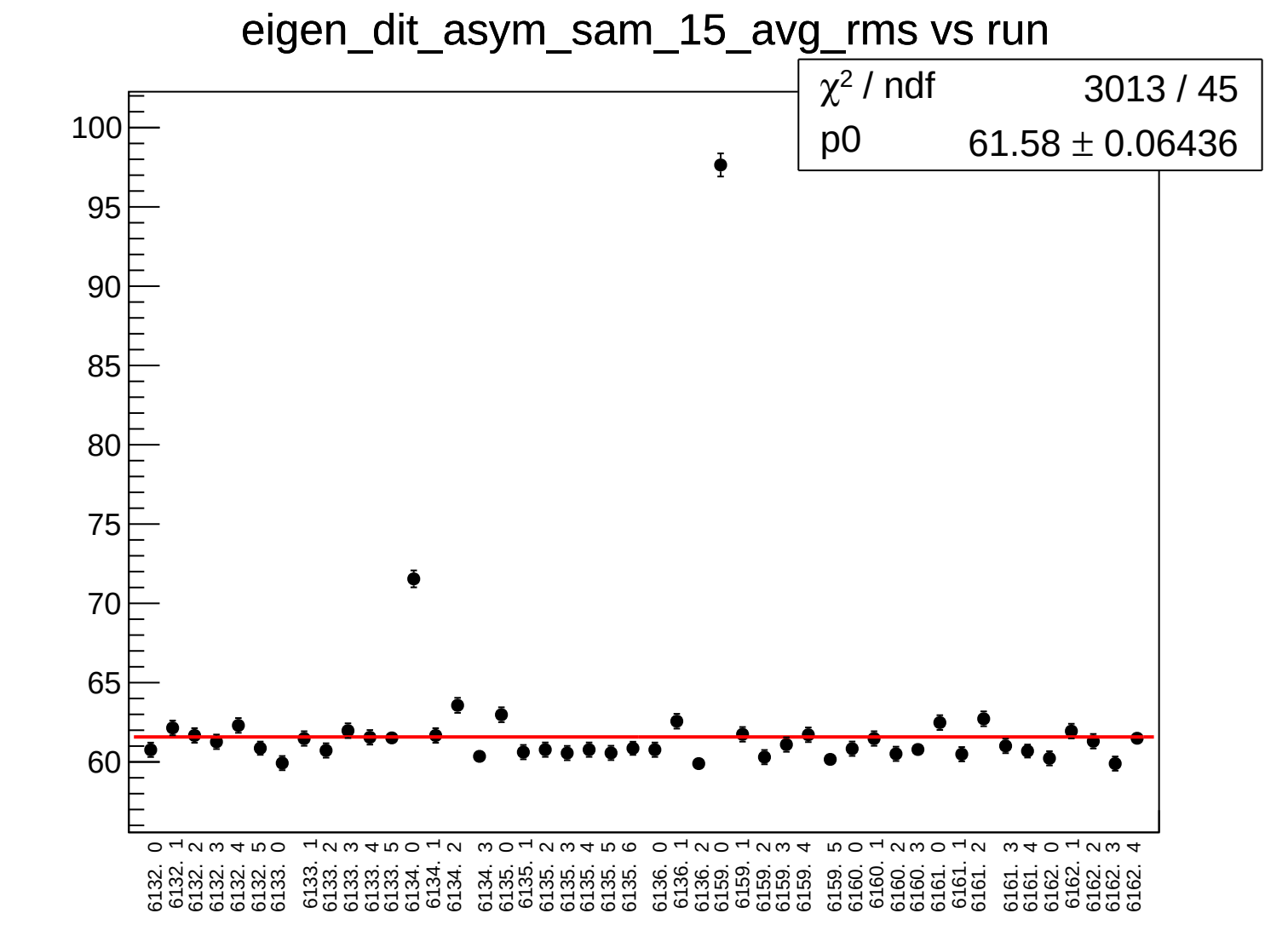

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 45.05 / 45
p0 492.6 ± 722.6
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 60.02
Std Dev 0
3
2
1
0
−1

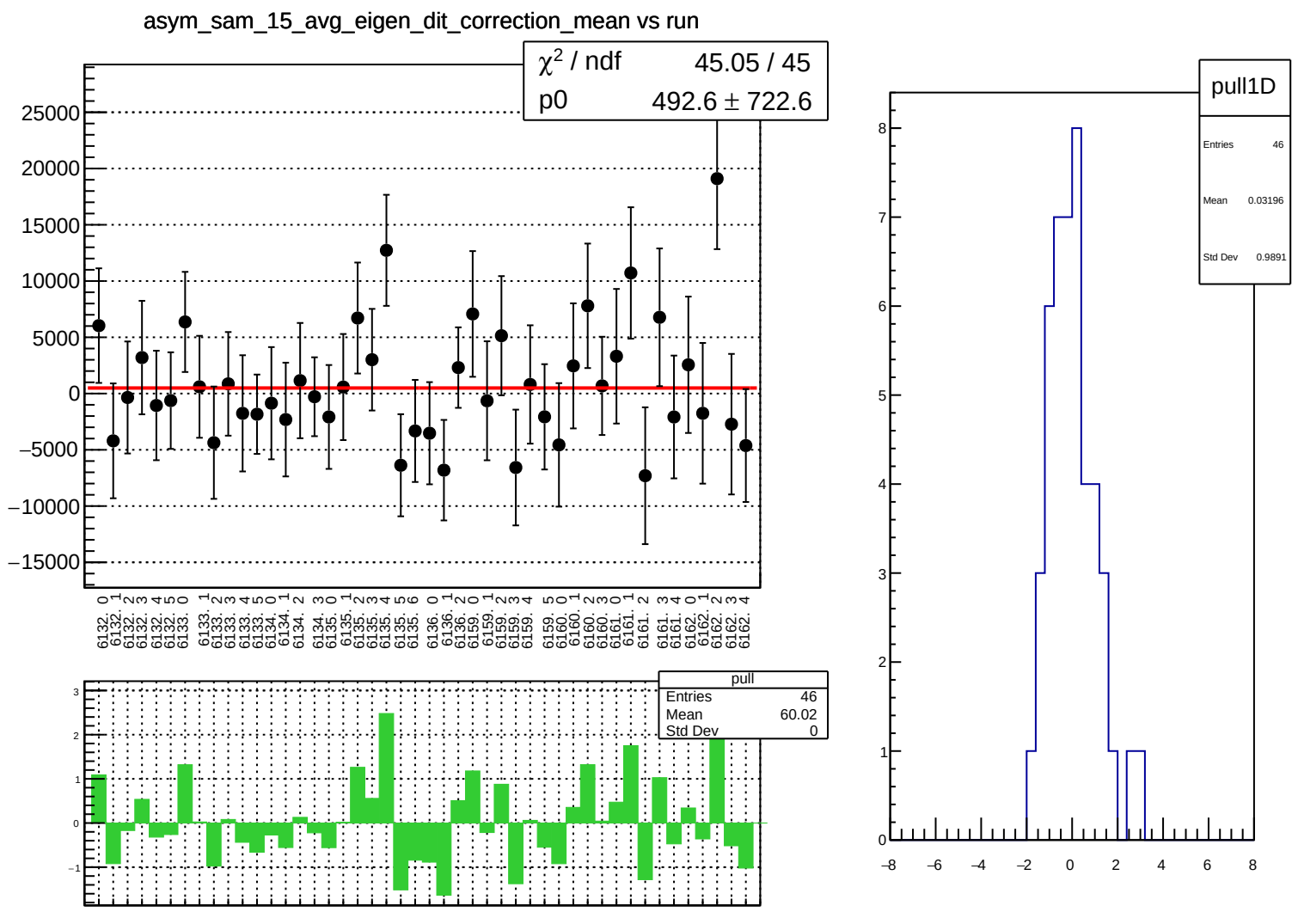

pull1D
Entries 46
Mean 0.03196
Std Dev 0.9891
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

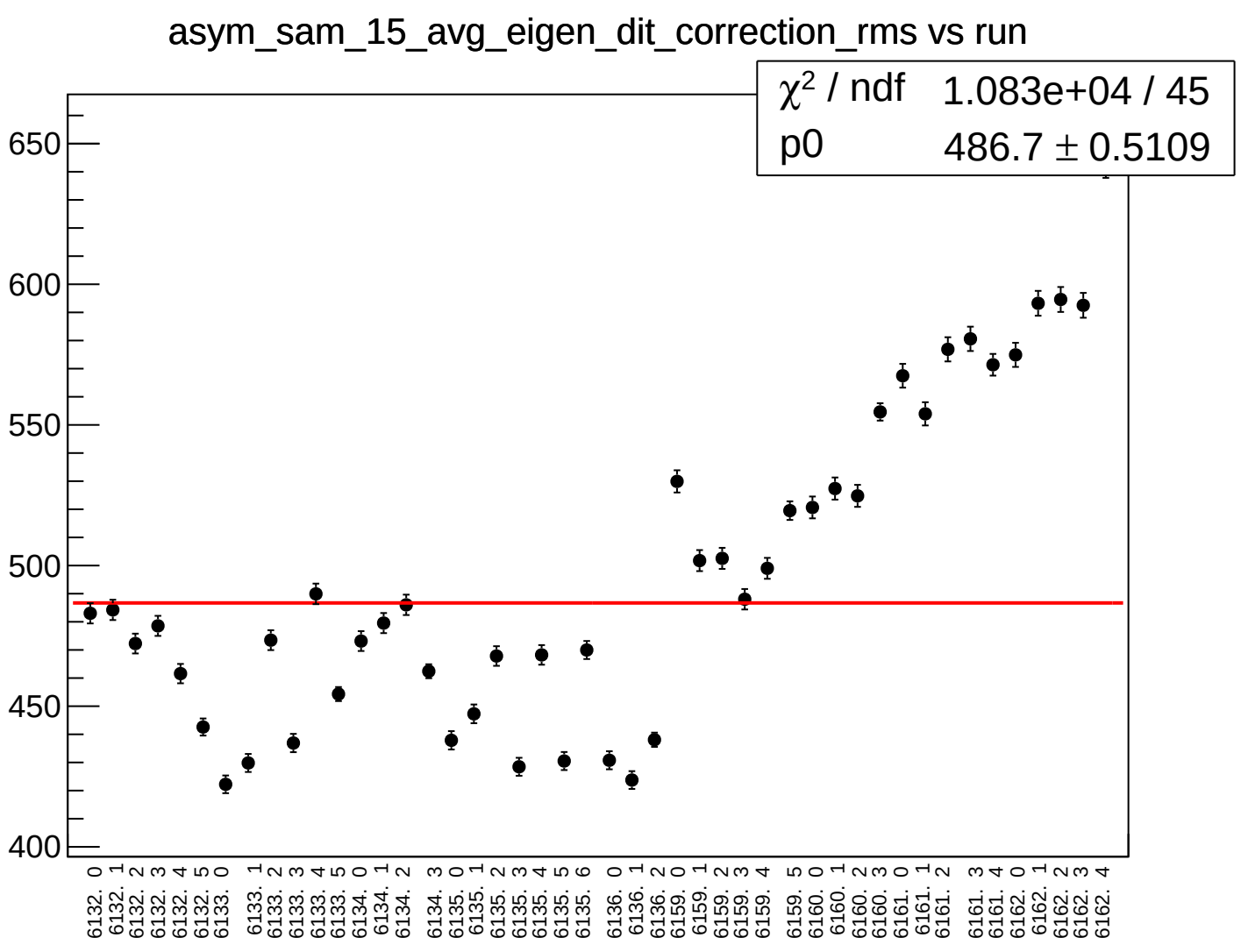

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 1.083e+04 / 45
p0 486.7 ± 0.5109
650
600
550
500
450
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

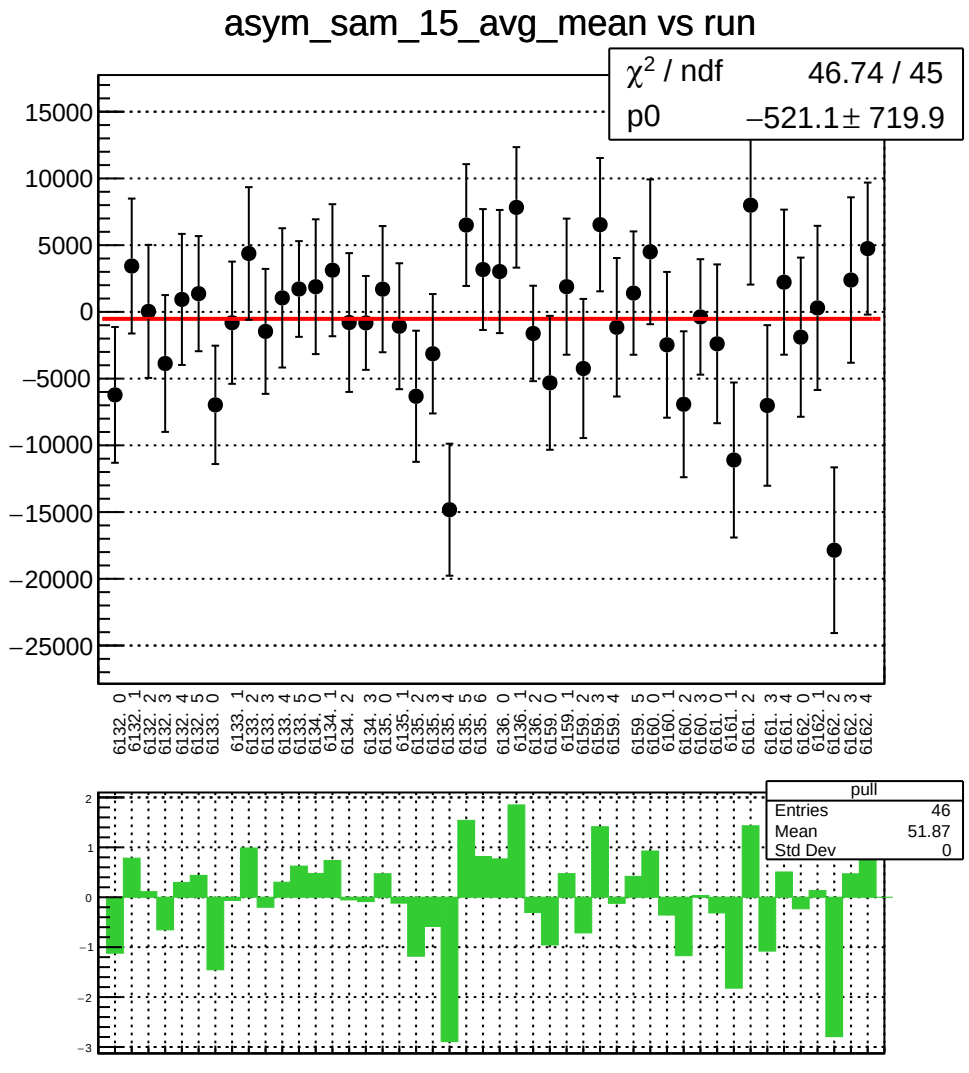

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 60.56 / 45
p0 −9.773 ± 91.02
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 149.9
Std Dev 0
2
1
0
−1
−2
−3

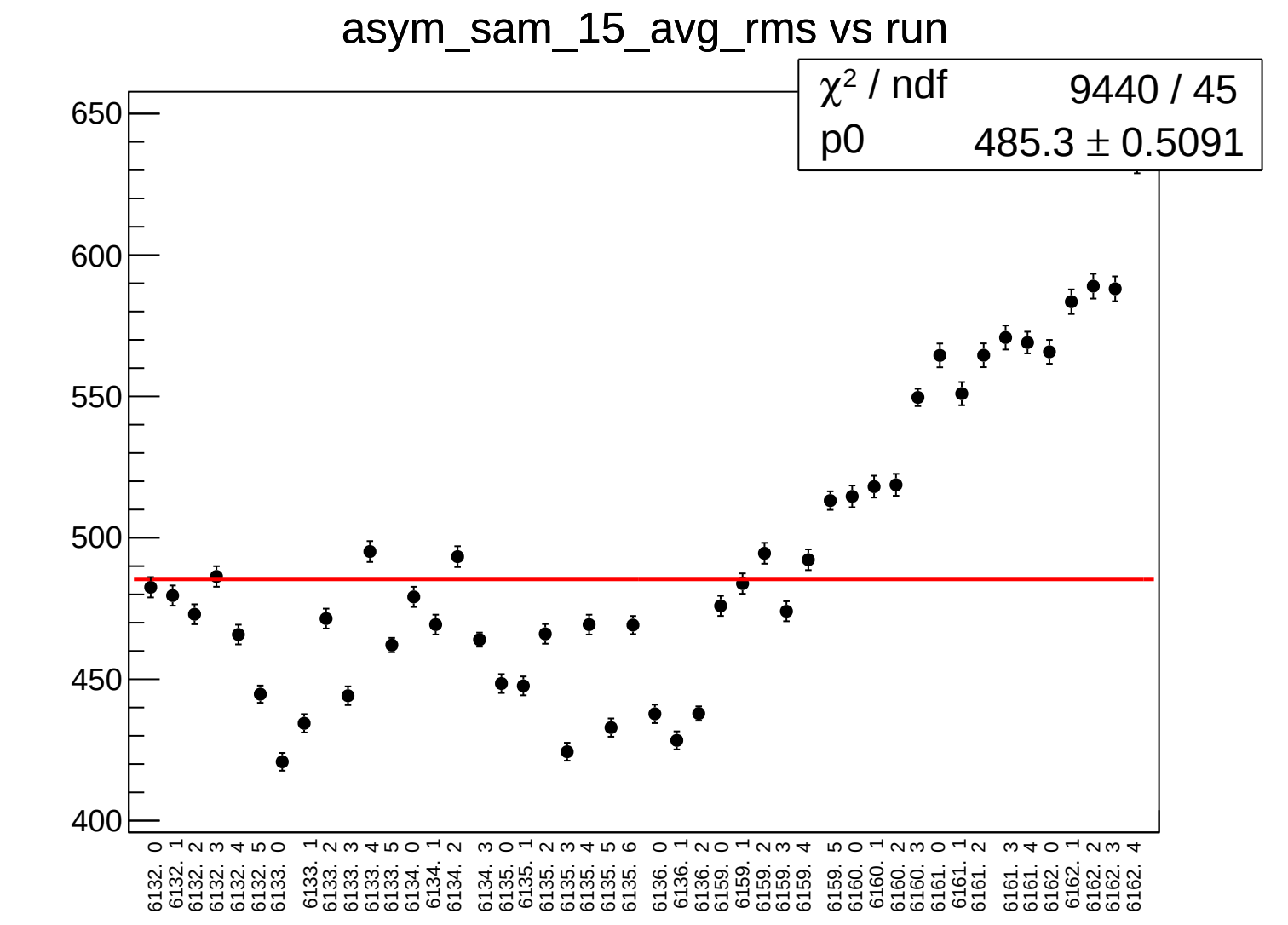

pull1D
Entries 46
Mean 0.0282
Std Dev 1.147
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

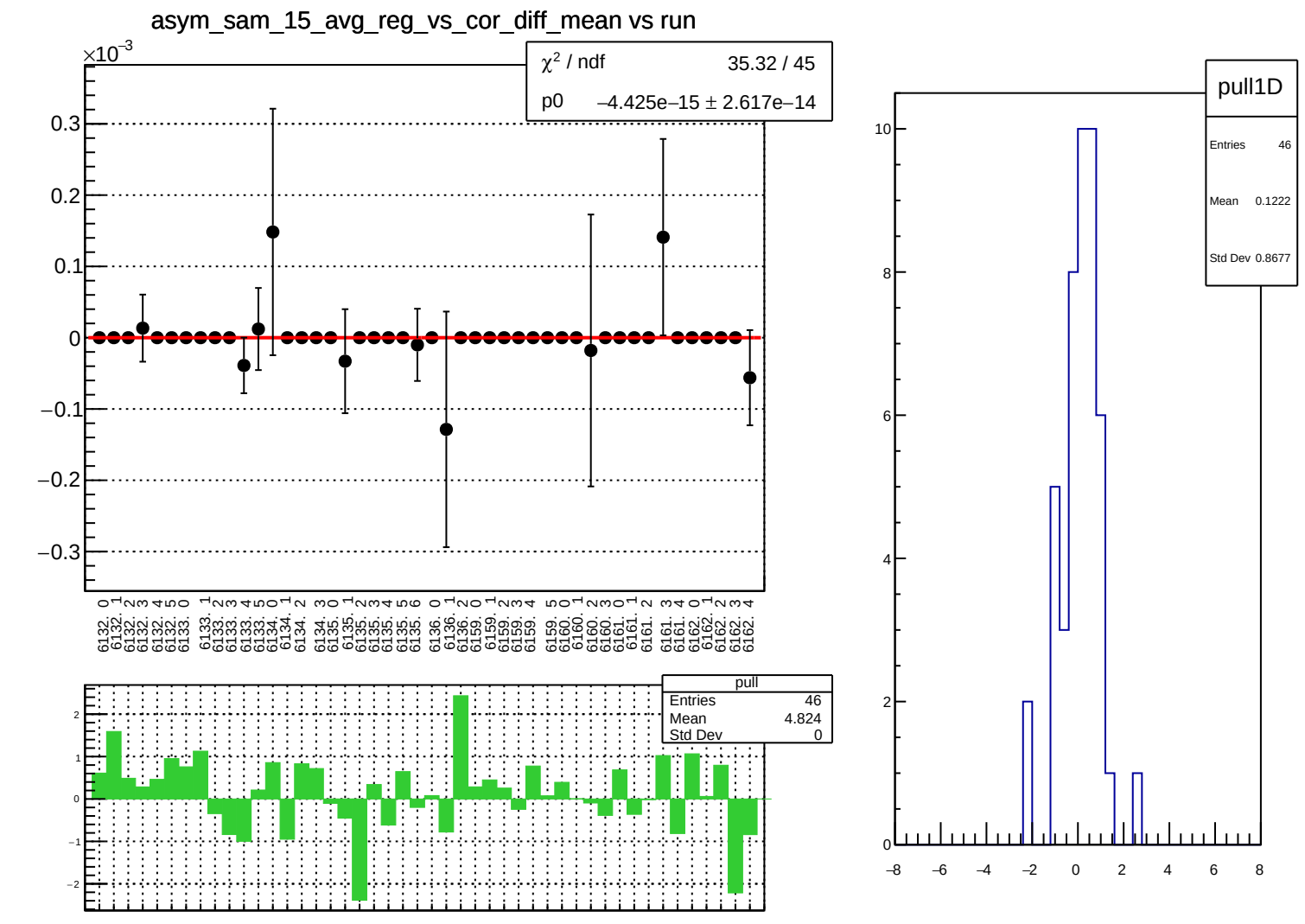

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 3013 / 45
p0 61.58 ± 0.06436
100
95
90
85
80
75
70
65
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

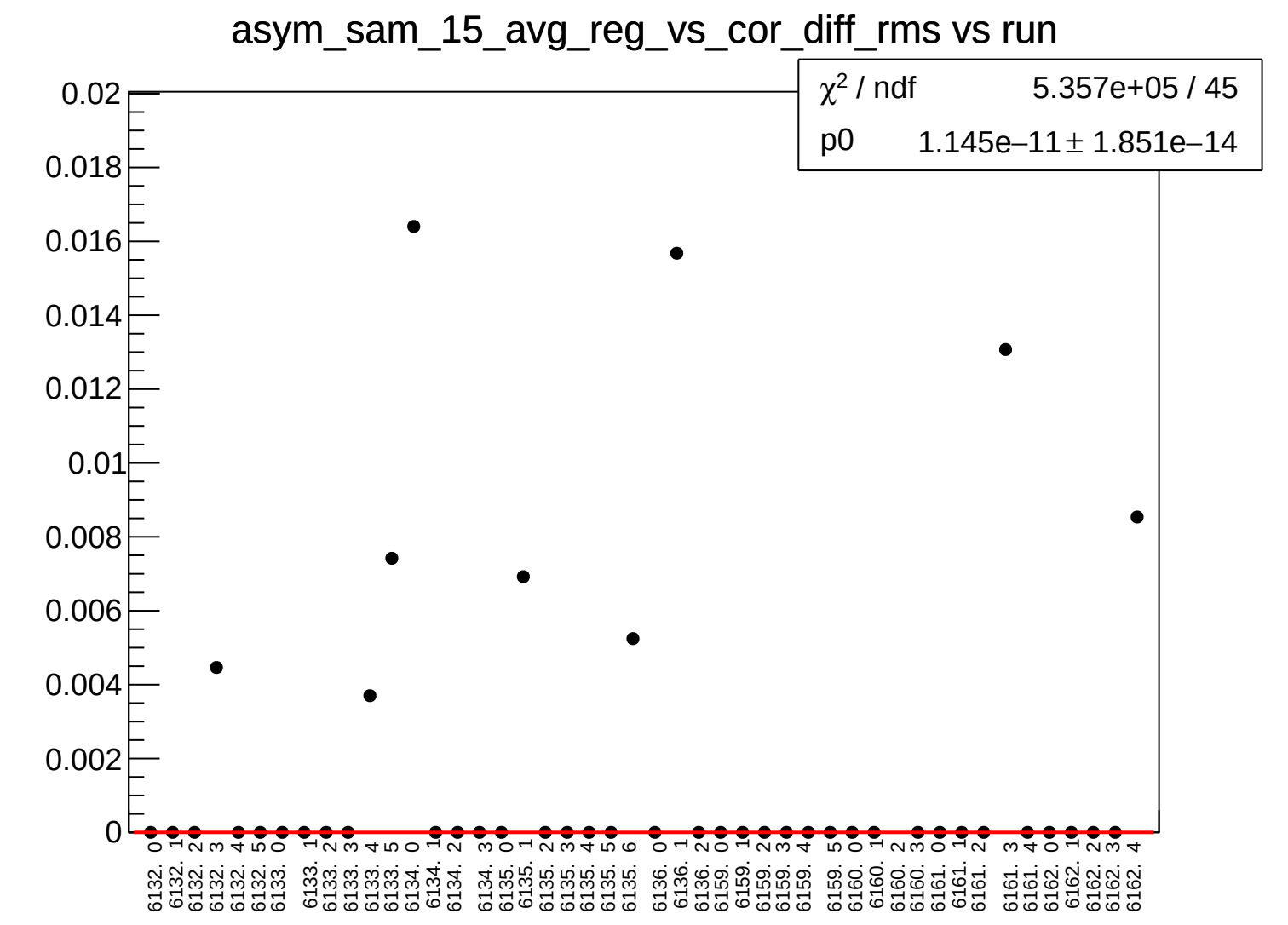

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 45.05 / 45
p0 492.6 ± 722.6
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 60.02
Std Dev 0
3
2
1
0
−1
pull1D
Entries 46
Mean 0.03196
Std Dev 0.9891
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

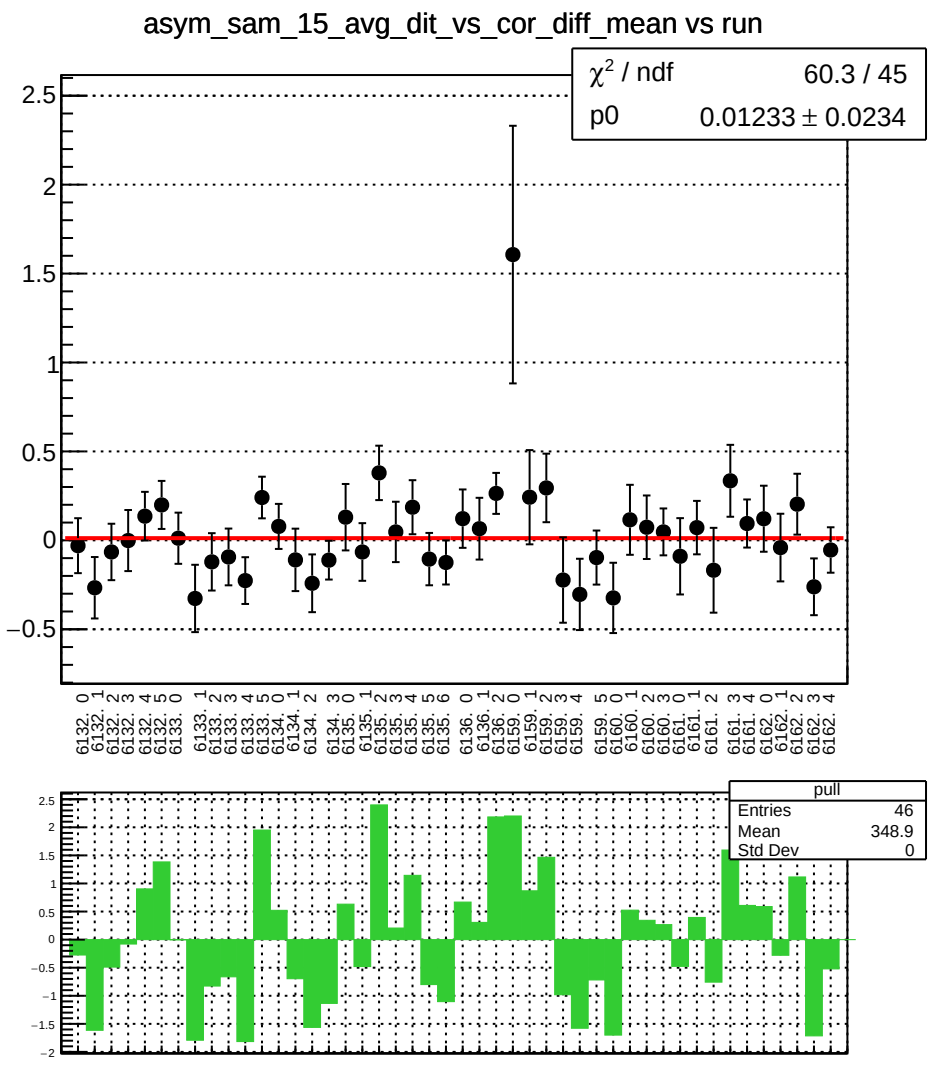

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.083e+04 / 45
p0 486.7 ± 0.5109
650
600
550
500
450
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

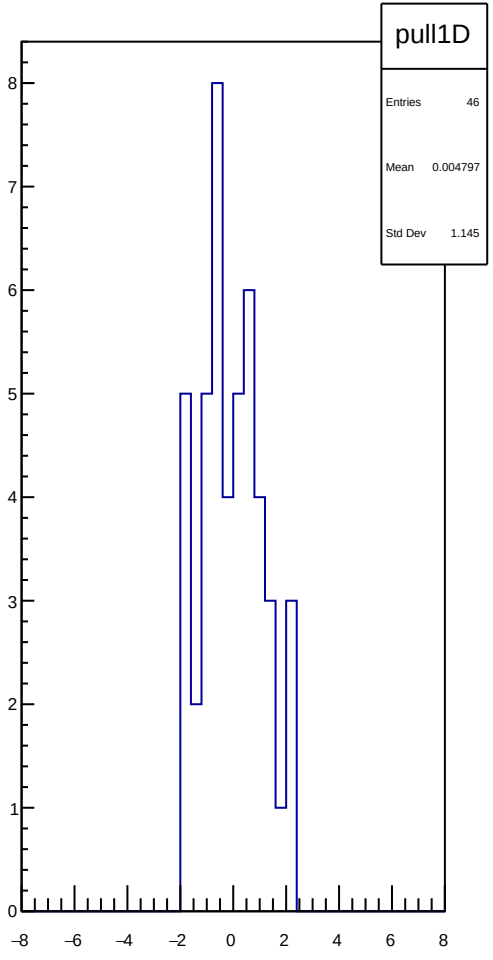

asym_sam_15_avg_mean vs run
χ² / ndf 46.74 / 45
p0 −521.1± 719.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 51.87
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.02603
Std Dev 1.008
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

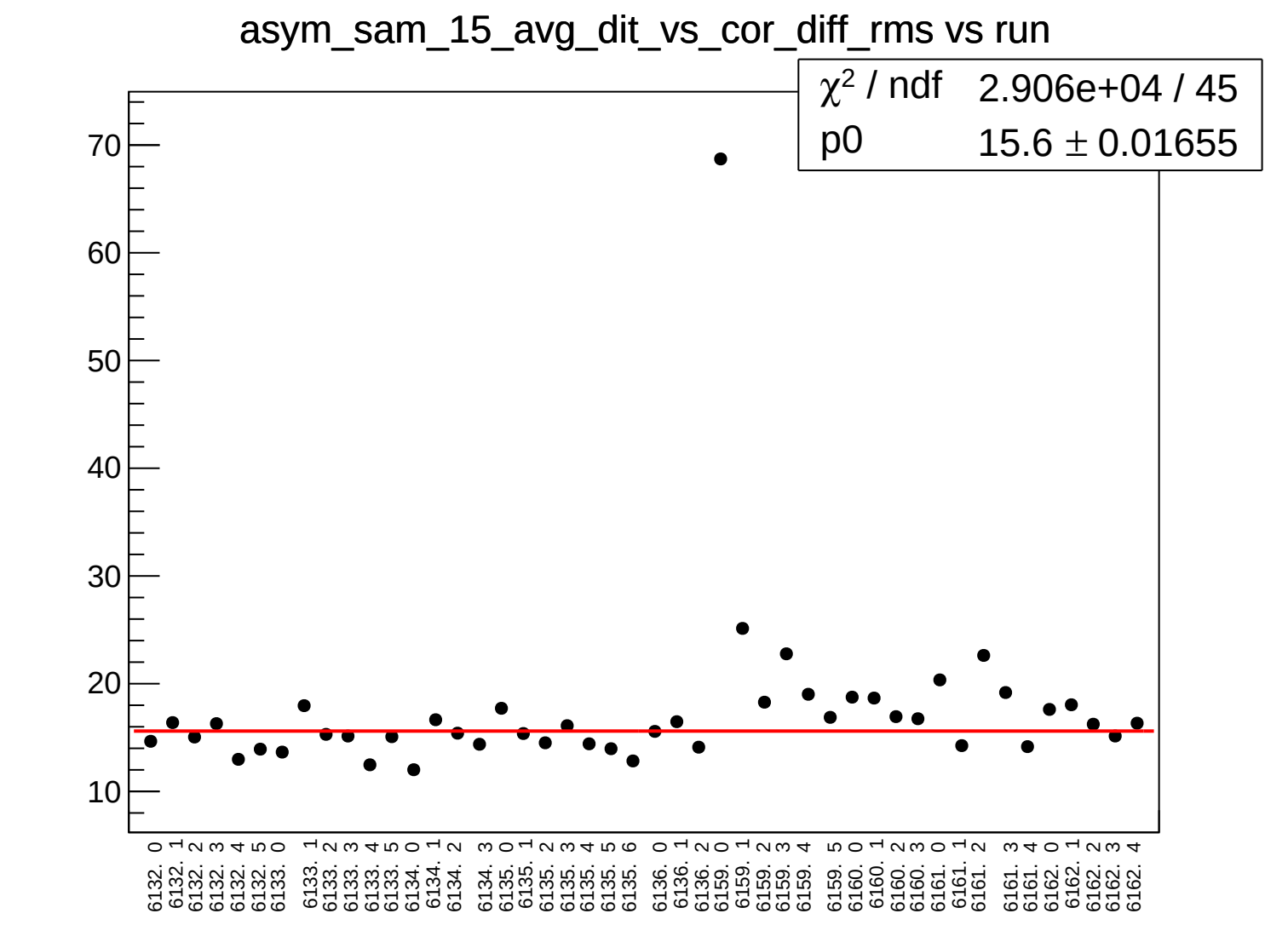

asym_sam_15_avg_rms vs run
χ² / ndf 9440 / 45
p0 485.3 ± 0.5091
650
600
550
500
450
400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

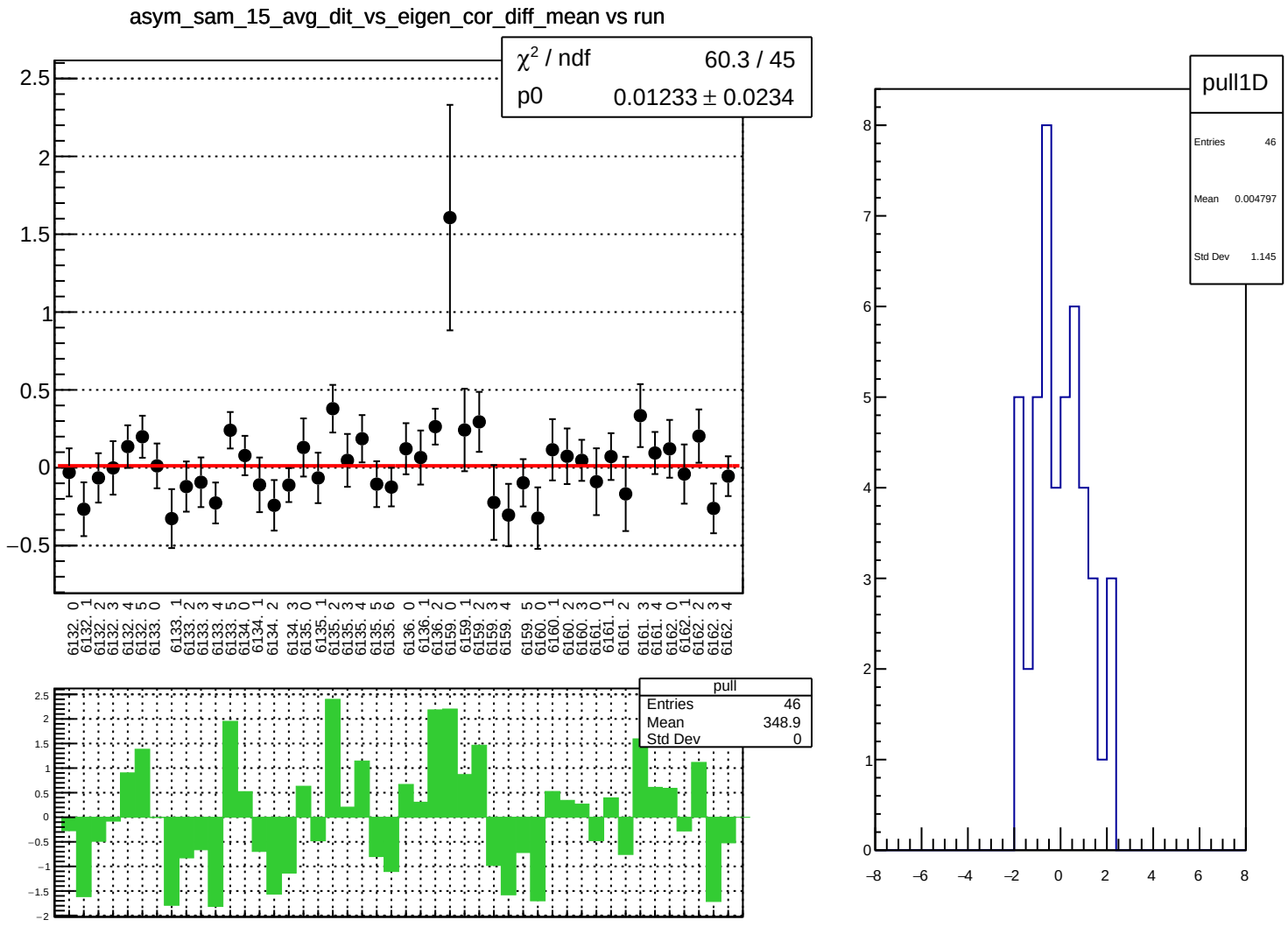

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 35.32 / 45
p0 −4.425e−15 ± 2.617e−14
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 4.824
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.1222
Std Dev 0.8677
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

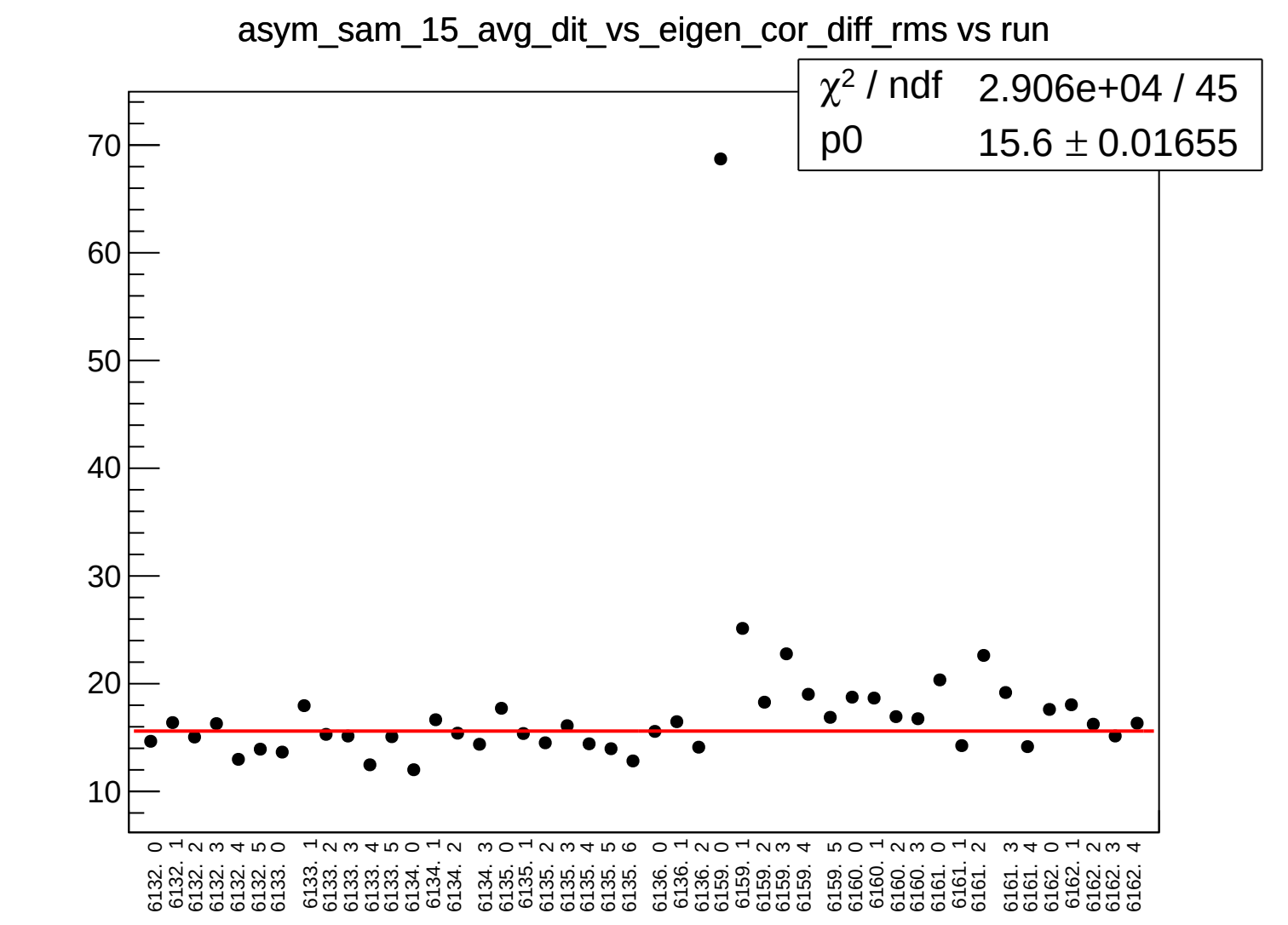

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.357e+05 / 45
p0 1.145e−11 ± 1.851e−14
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

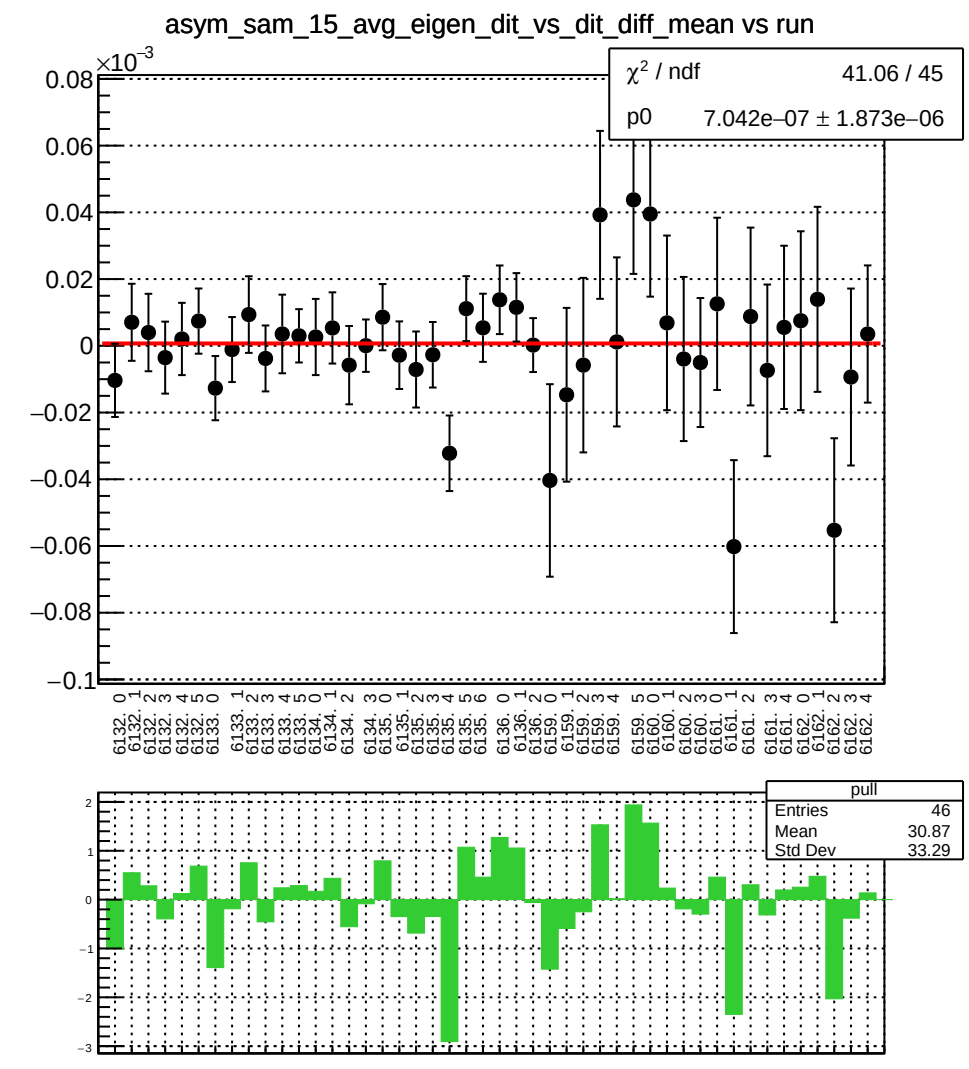

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 60.3 / 45
p0 0.01233 ± 0.0234
pull
Entries 46
Mean 348.9
Std Dev 0

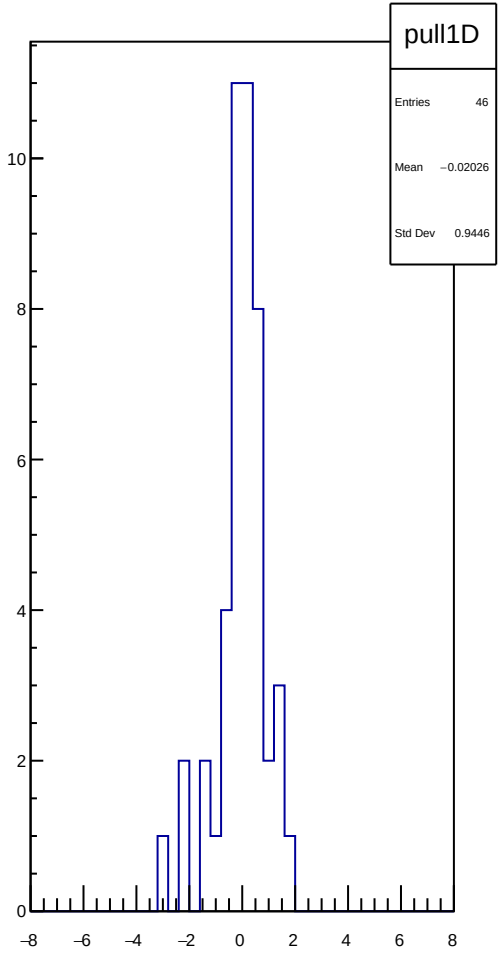

pull1D
Entries 46
Mean 0.004797
Std Dev 1.145

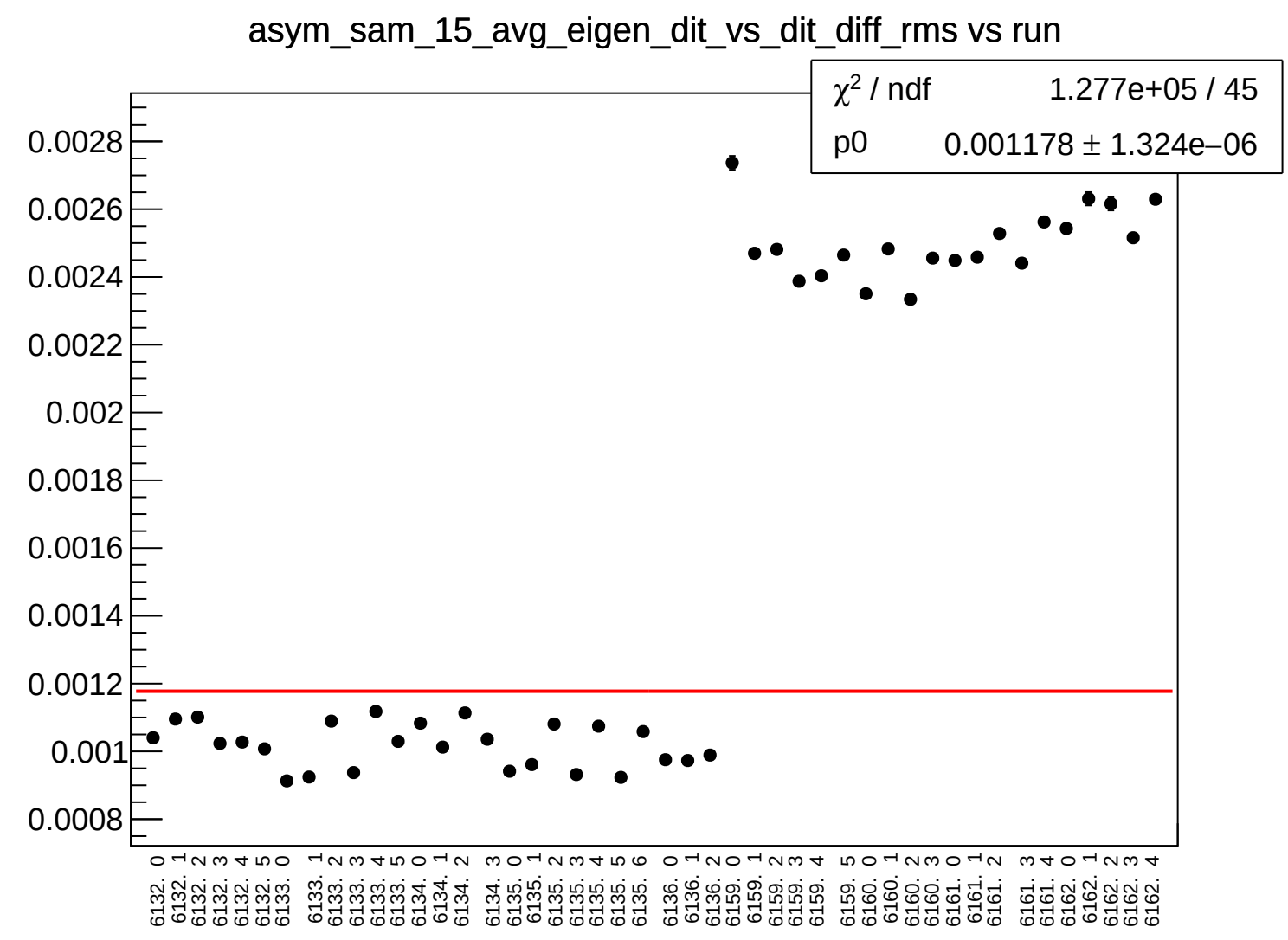

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.906e+04 / 45
p0 15.6 ± 0.01655
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.3 / 45
p0 0.01233 ± 0.0234
pull
Entries 46
Mean 348.9
Std Dev 0
pull1D
Entries 46
Mean 0.004797
Std Dev 1.145


asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.906e+04 / 45
p0 15.6 ± 0.01655
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 41.06 / 45
p0 7.042e−07 ± 1.873e−06
pull
Entries 46
Mean 30.87
Std Dev 33.29


pull1D
Entries 46
Mean −0.02026
Std Dev 0.9446


asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.277e+05 / 45
p0 0.001178 ± 1.324e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
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6159. 2
6159. 3
6159. 4
6159. 5
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6160. 1
6160. 2
6160. 3
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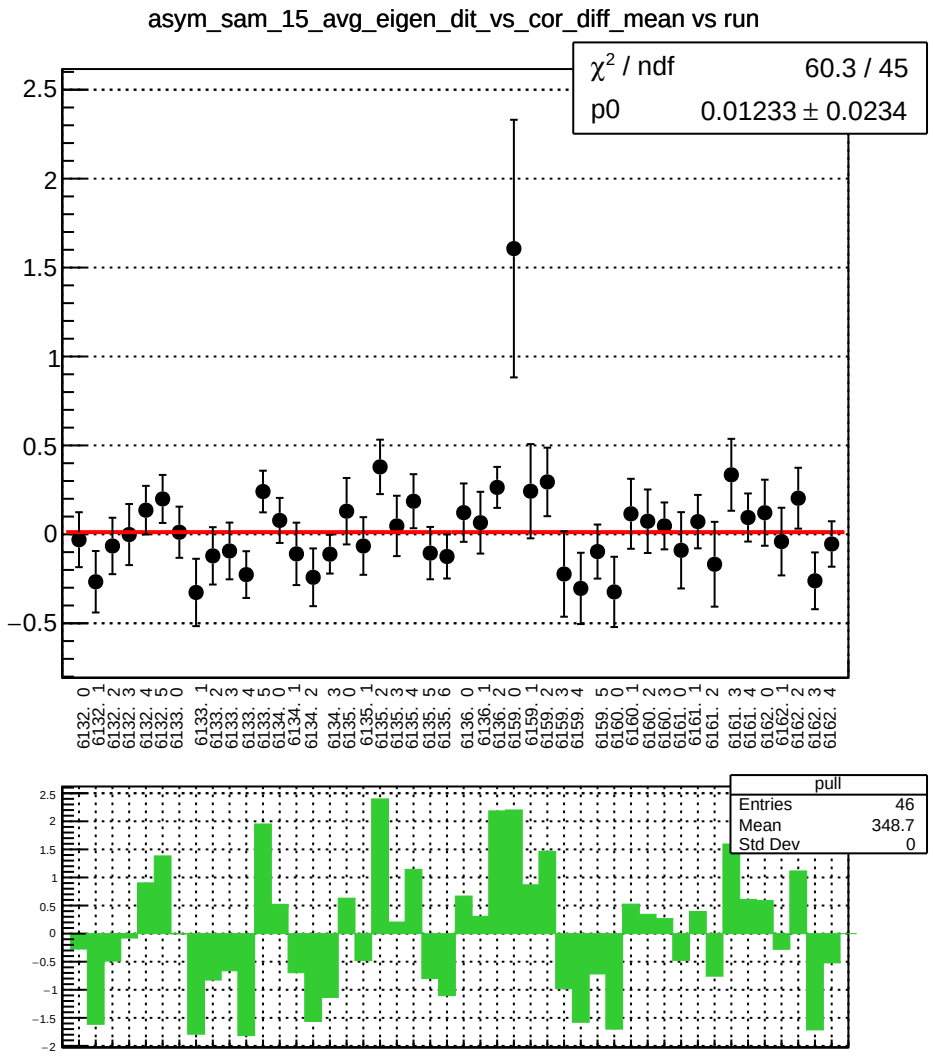
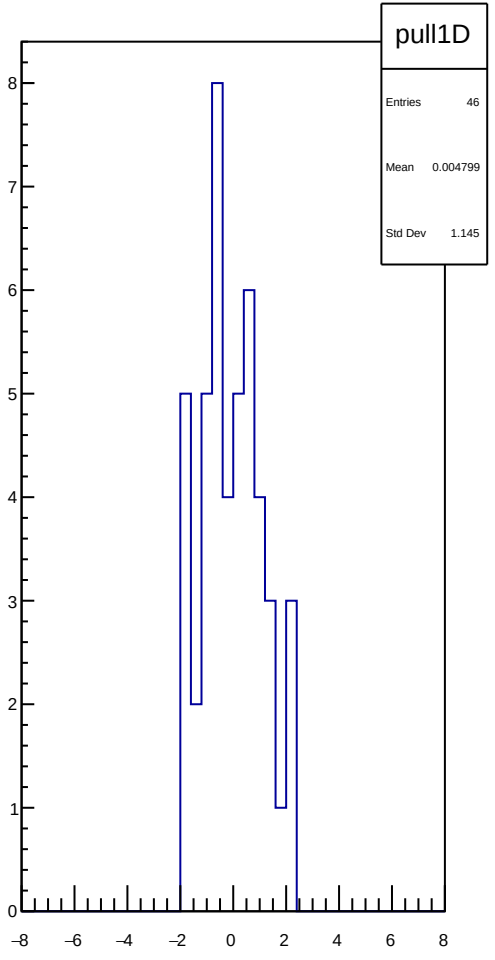
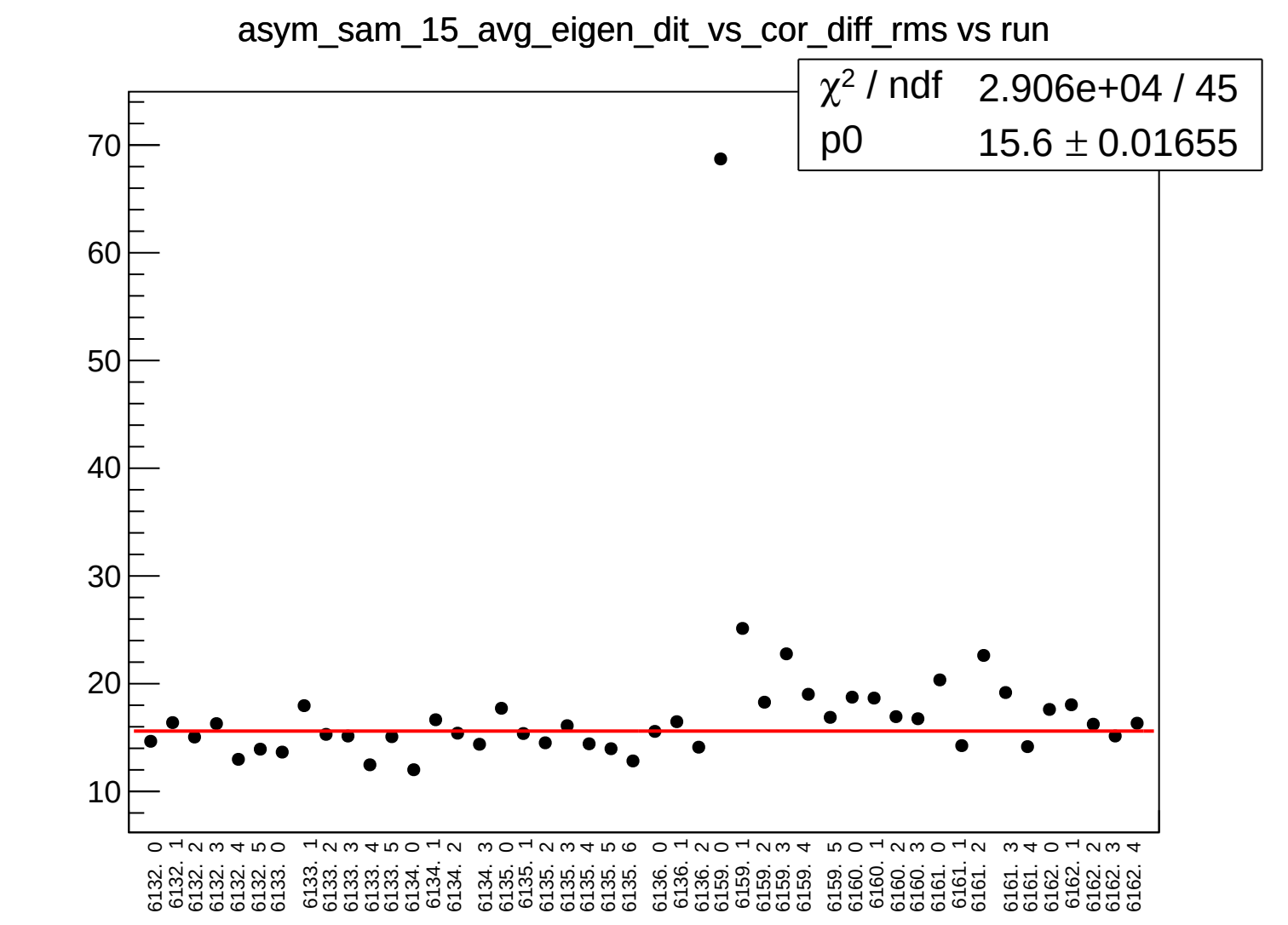
6162. 4


asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 60.3 / 45
p0 0.01233 ± 0.0234
pull
Entries 46
Mean 348.7
Std Dev 0


pull1D
Entries 46
Mean 0.004799
Std Dev 1.145


asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.906e+04 / 45
p0 15.6 ± 0.01655
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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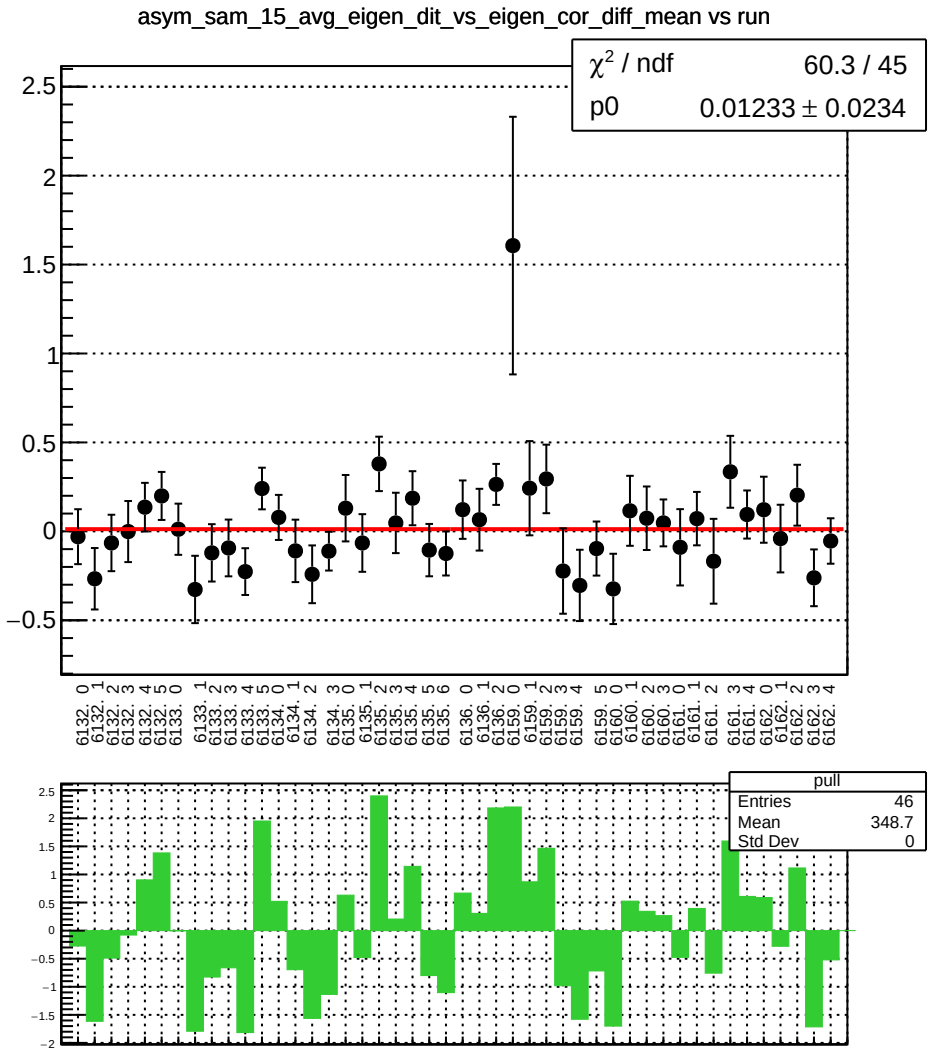
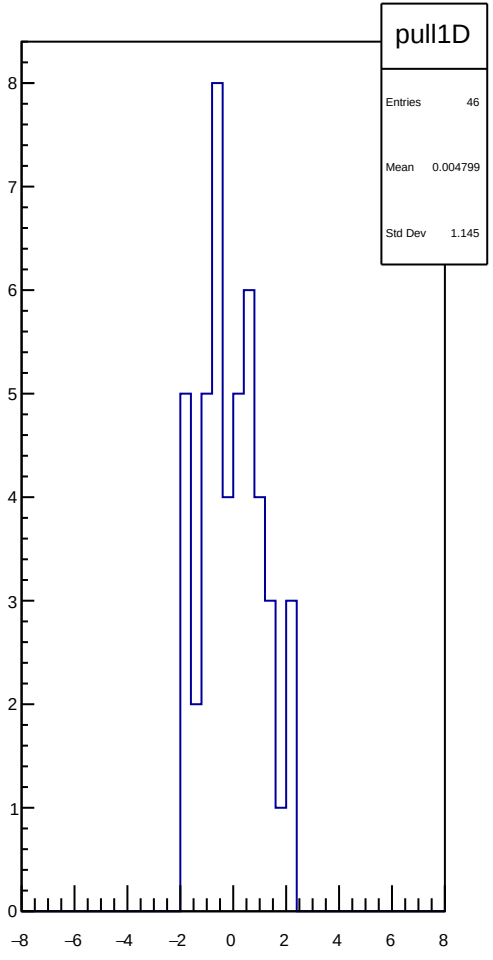
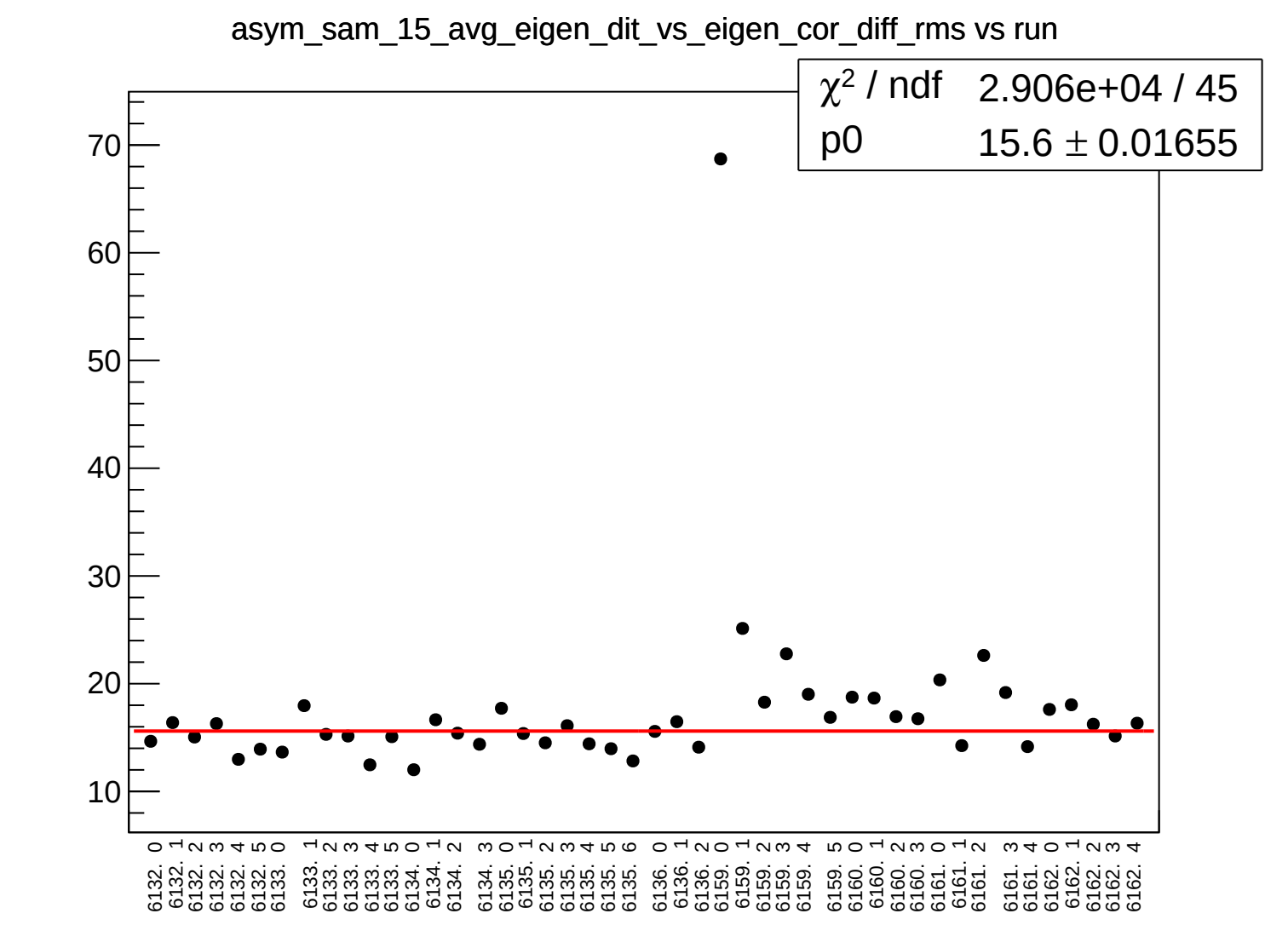
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.3 / 45
p0 0.01233 ± 0.0234
pull
Entries 46
Mean 348.7
Std Dev 0


pull1D
Entries 46
Mean 0.004799
Std Dev 1.145


asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.906e+04 / 45
p0 15.6 ± 0.01655
70
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
6161. 3
6161. 4
6162. 0
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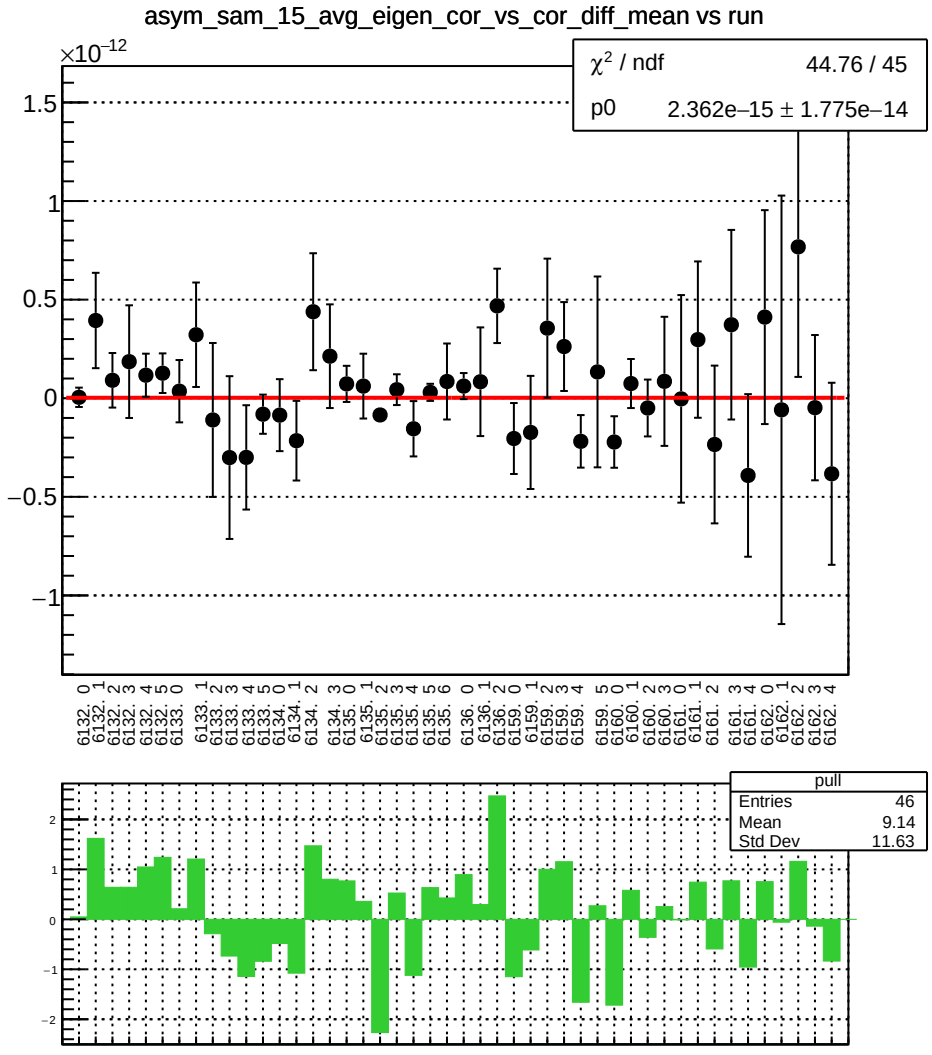
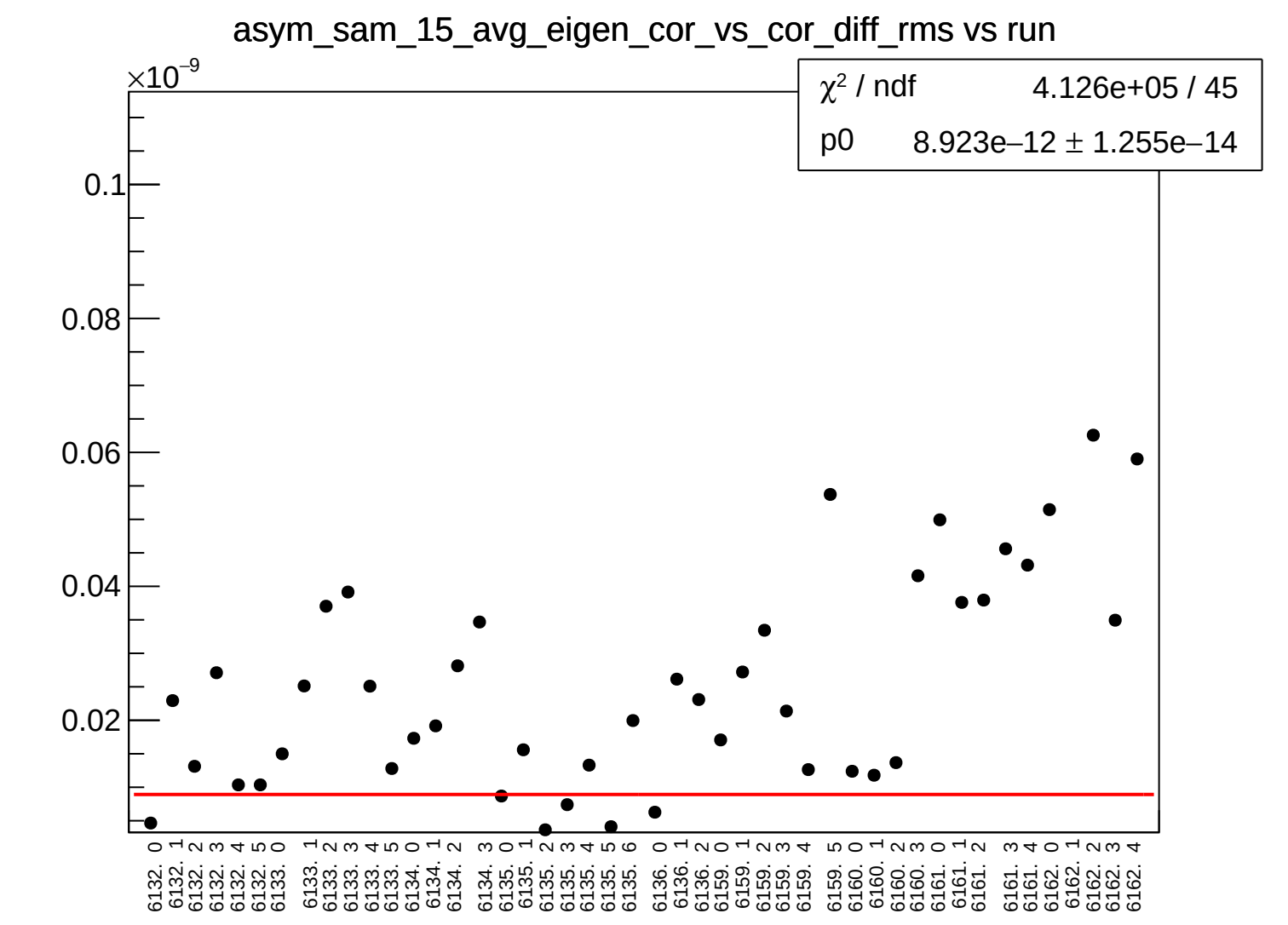
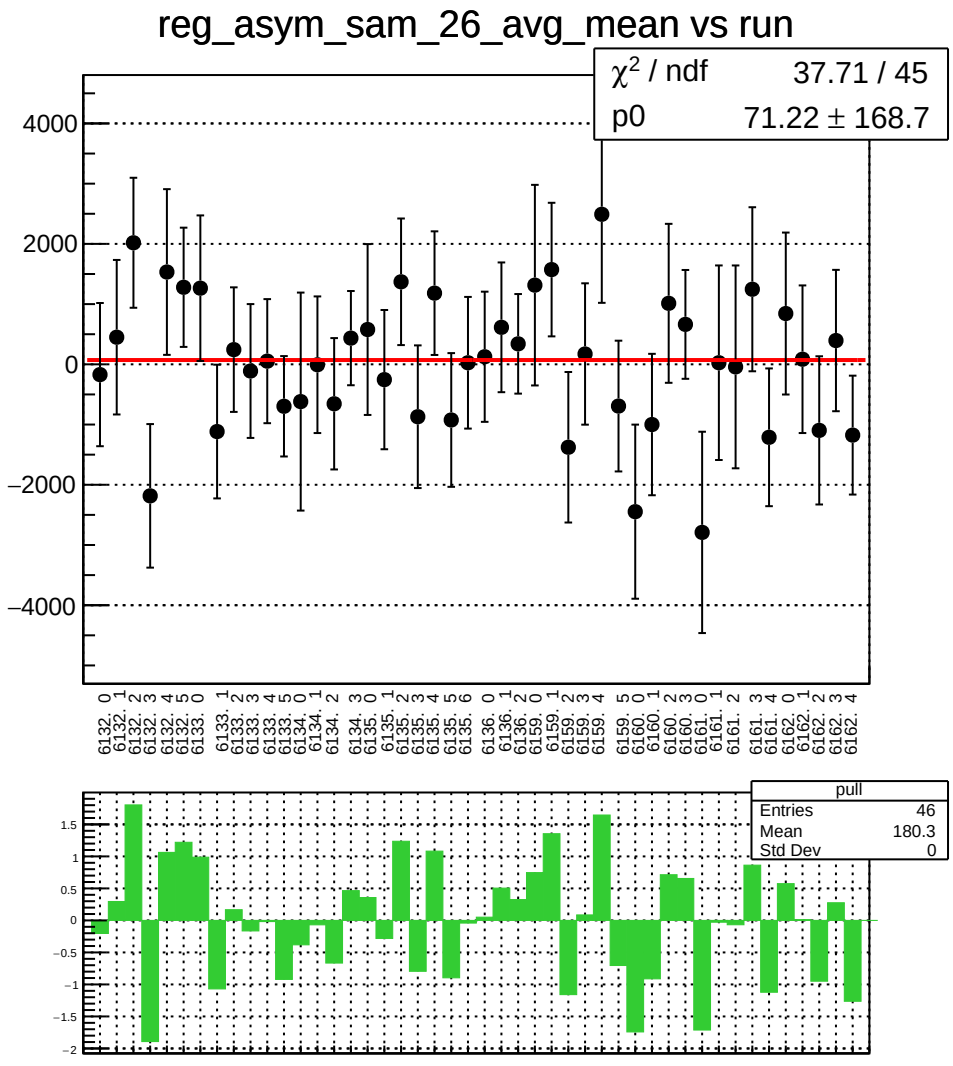
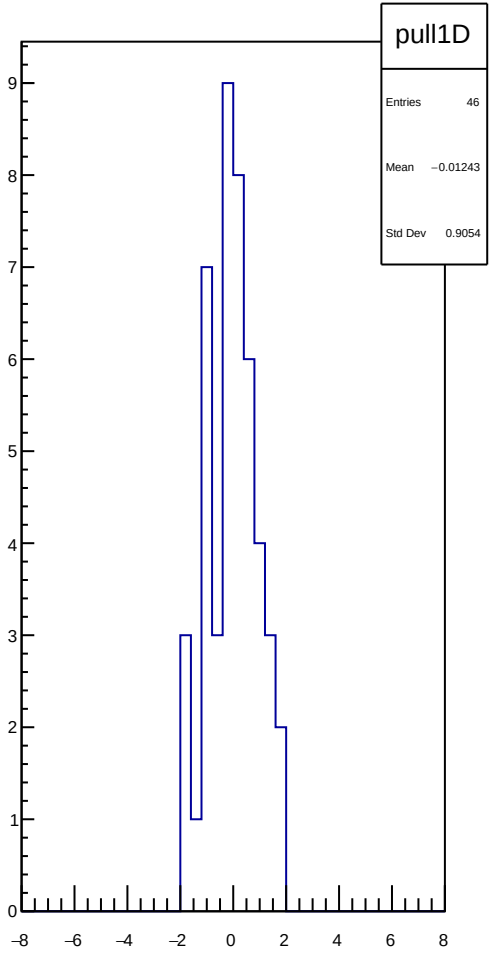
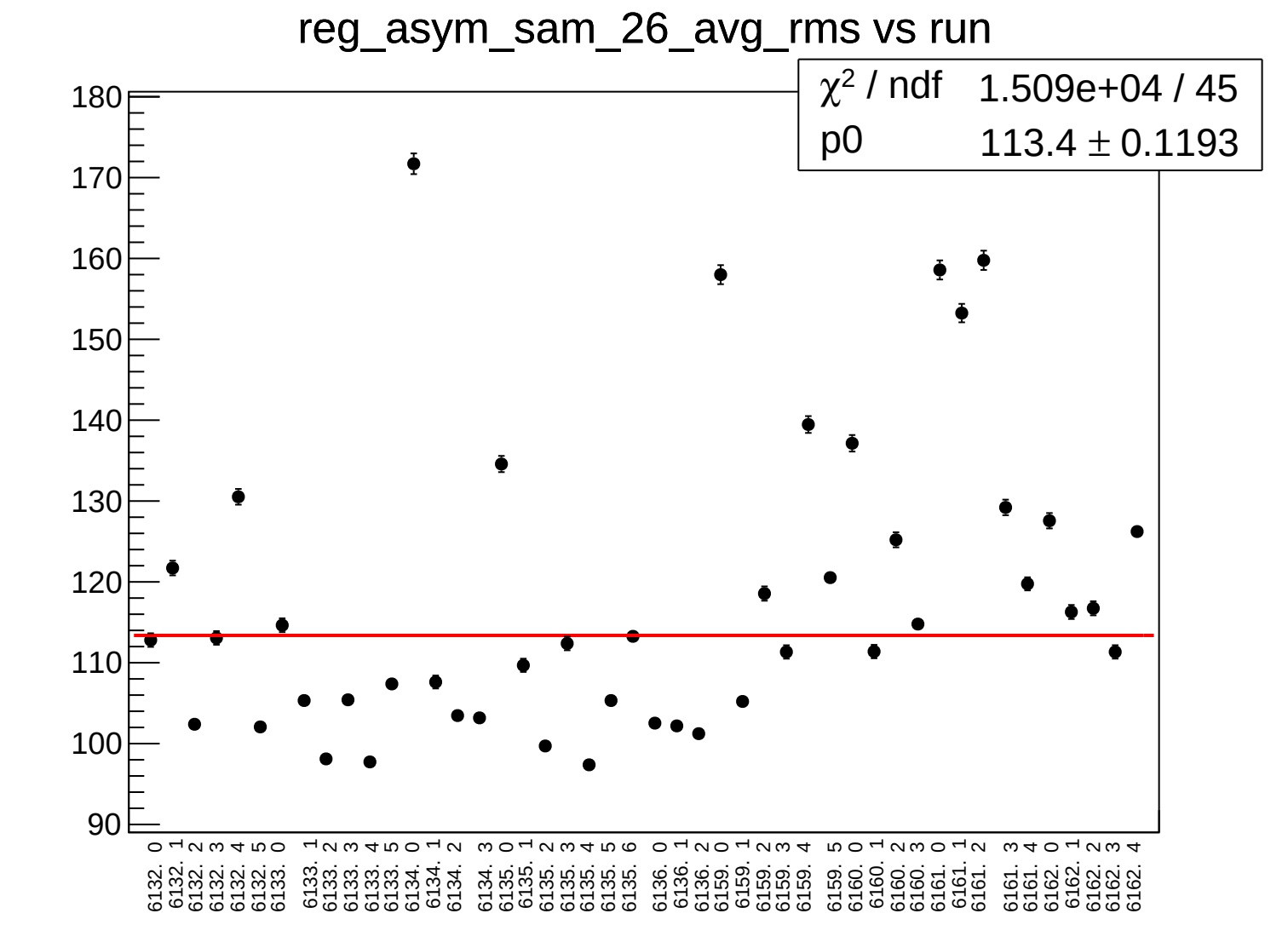
6162. 3
6162. 4


asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.76 / 45
p0 2.362e−15 ± 1.775e−14
1.5
1
0.5
0
−0.5
−1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 9.14
Std Dev 11.63
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.1296
Std Dev 0.9779
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.126e+05 / 45
p0 8.923e−12 ± 1.255e−14
0.1
0.08
0.06
0.04
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_sam_26_avg_mean vs run
χ² / ndf 37.71 / 45
p0 71.22 ± 168.7
4000
2000
0
−2000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 180.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean −0.01243
Std Dev 0.9054
9
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 1.509e+04 / 45
p0 113.4 ± 0.1193
180
170
160
150
140
130
120
110
100
90
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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6161. 4
6162. 0
6162. 1
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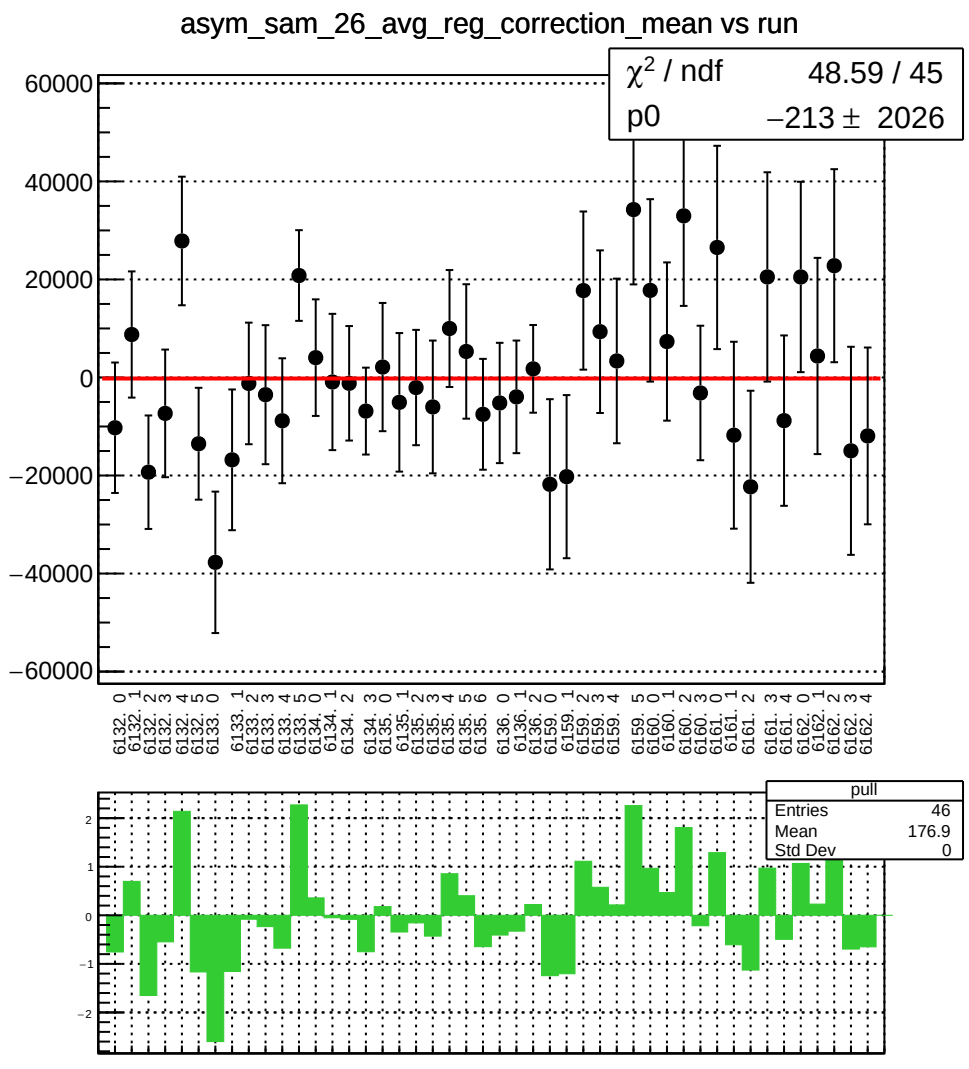
6162. 3
6162. 4


asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 48.59 / 45
p0 −213 ± 2026
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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6133. 4
6133. 5
6134. 0
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6134. 2
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6135. 0
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
6159. 0
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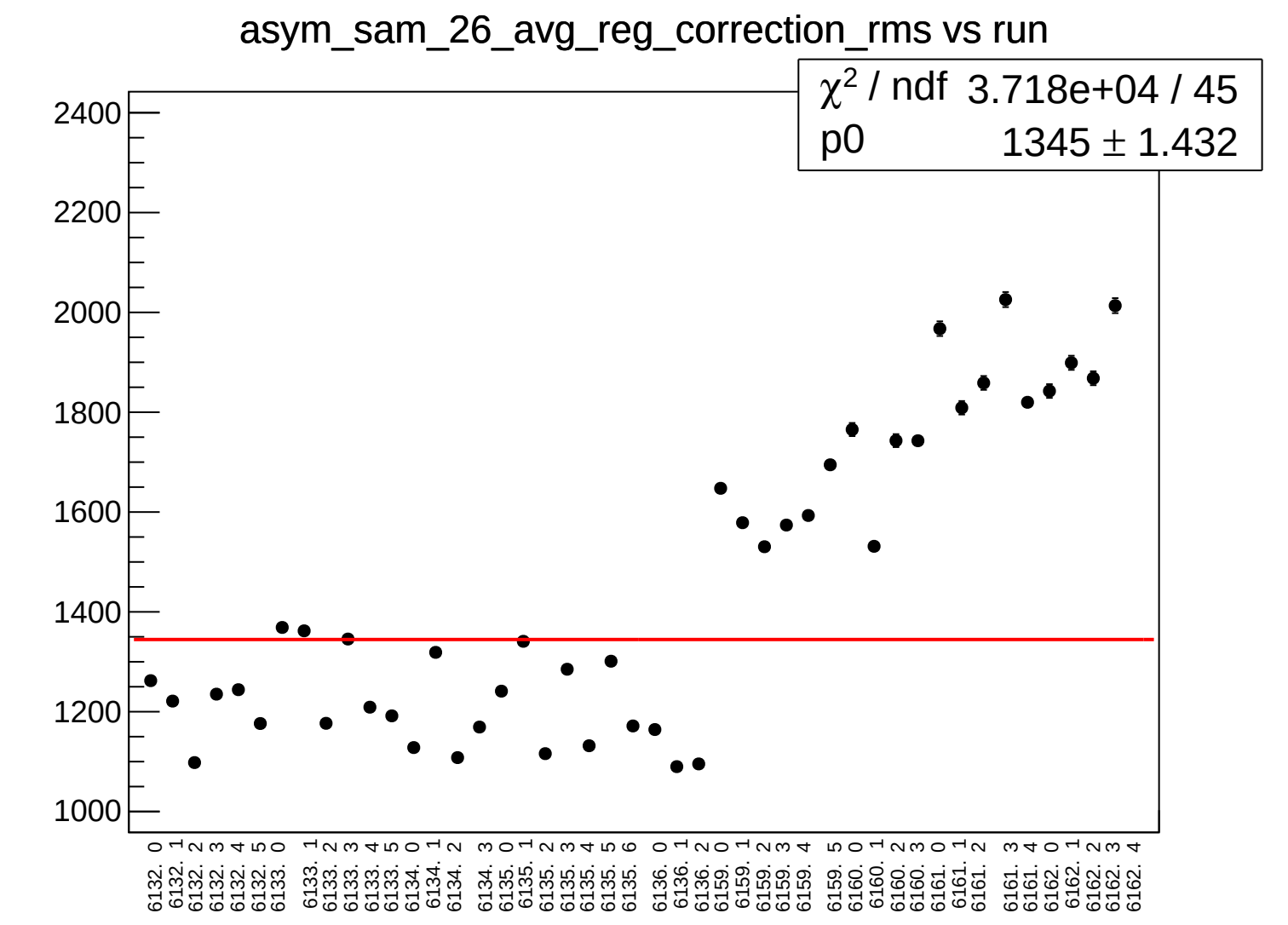
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 176.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02096
Std Dev 1.028
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 3.718e+04 / 45
p0 1345 ± 1.432
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
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6159. 2
6159. 3
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6159. 5
6160. 0
6160. 1
6160. 2
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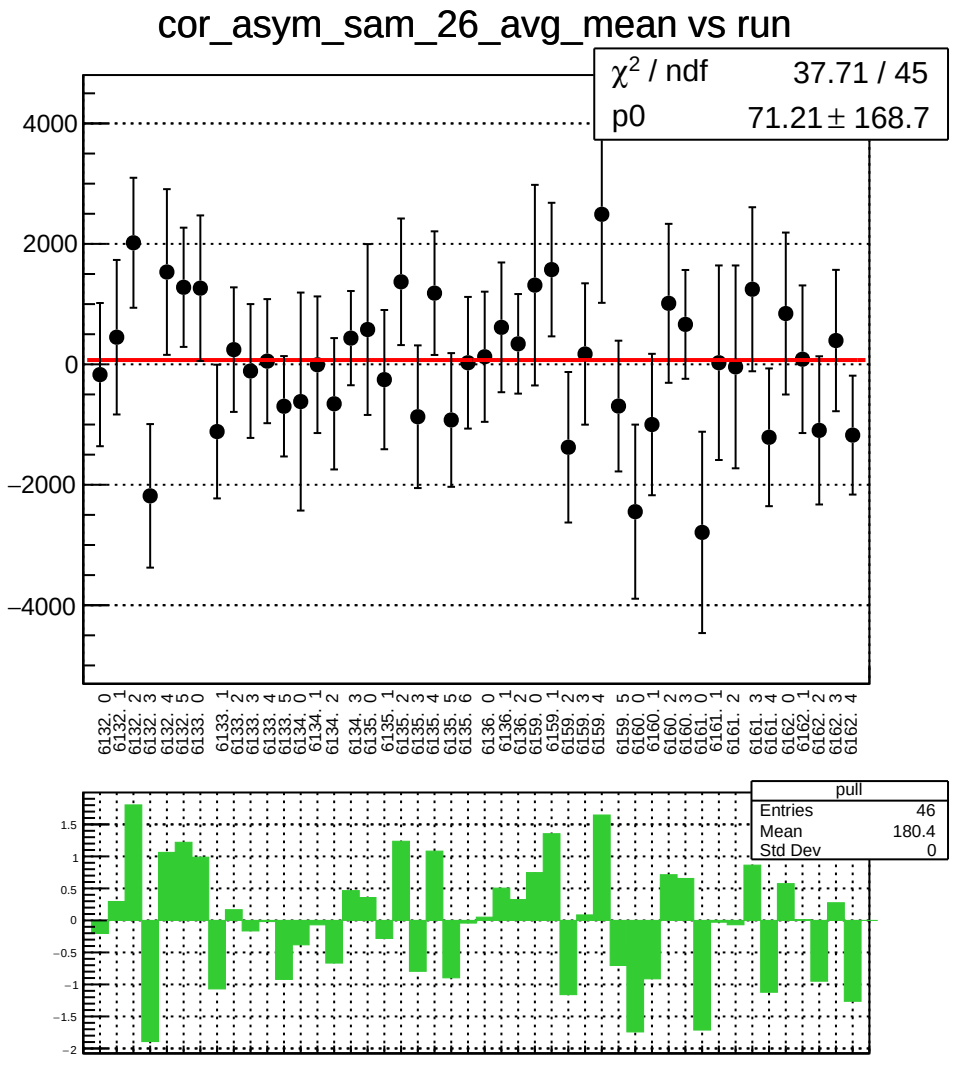
6162. 4


cor_asym_sam_26_avg_mean vs run
χ² / ndf 37.71 / 45
p0 71.21 ± 168.7
4000
2000
0
−2000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 2
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6136. 0
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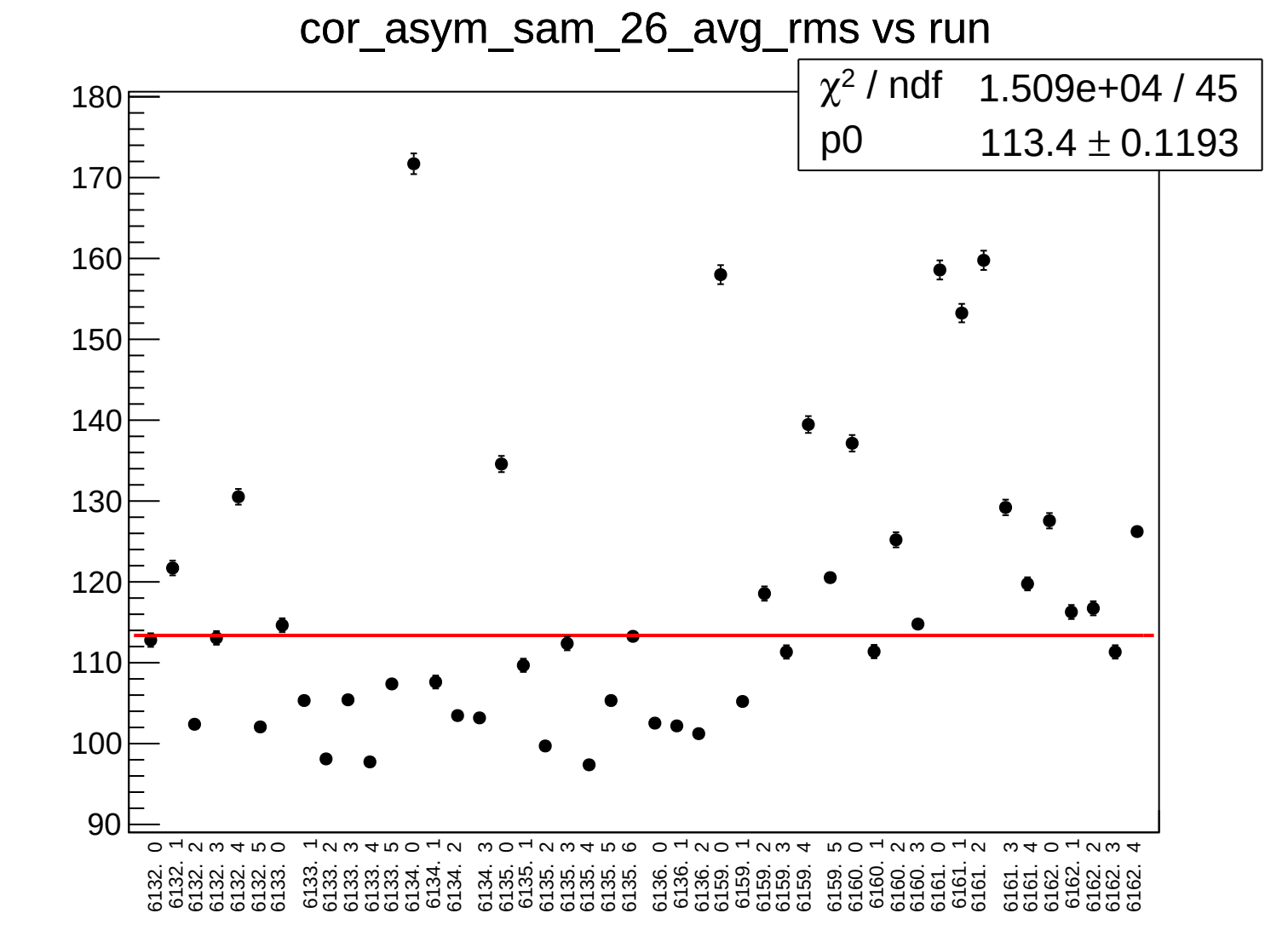
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 180.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.01243
Std Dev 0.9054
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_26_avg_rms vs run
χ² / ndf 1.509e+04 / 45
p0 113.4 ± 0.1193
180
170
160
150
140
130
120
110
100
90
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6160. 1
6160. 2
6160. 3
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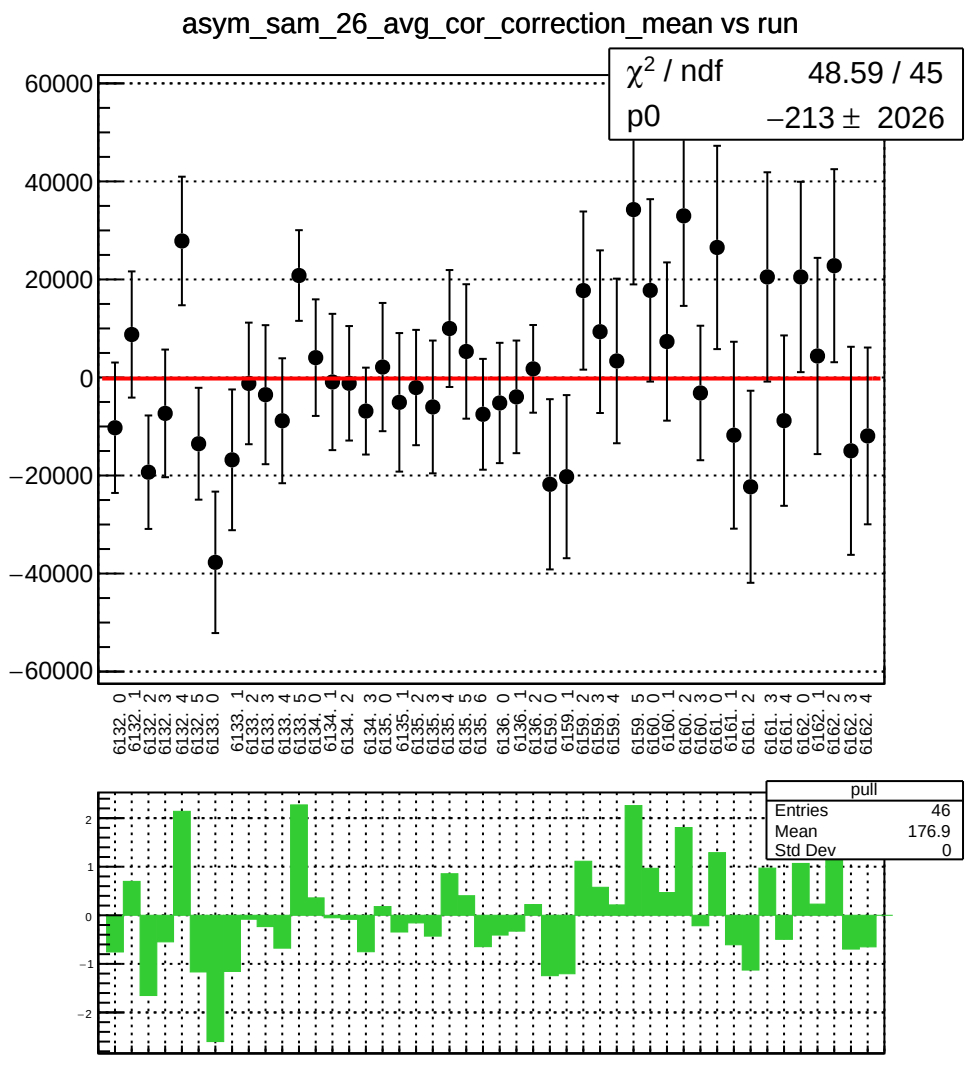
6162. 3
6162. 4


asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 48.59 / 45
p0 −213 ± 2026
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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6134. 0
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6134. 2
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6135. 1
6135. 2
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6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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6159. 2
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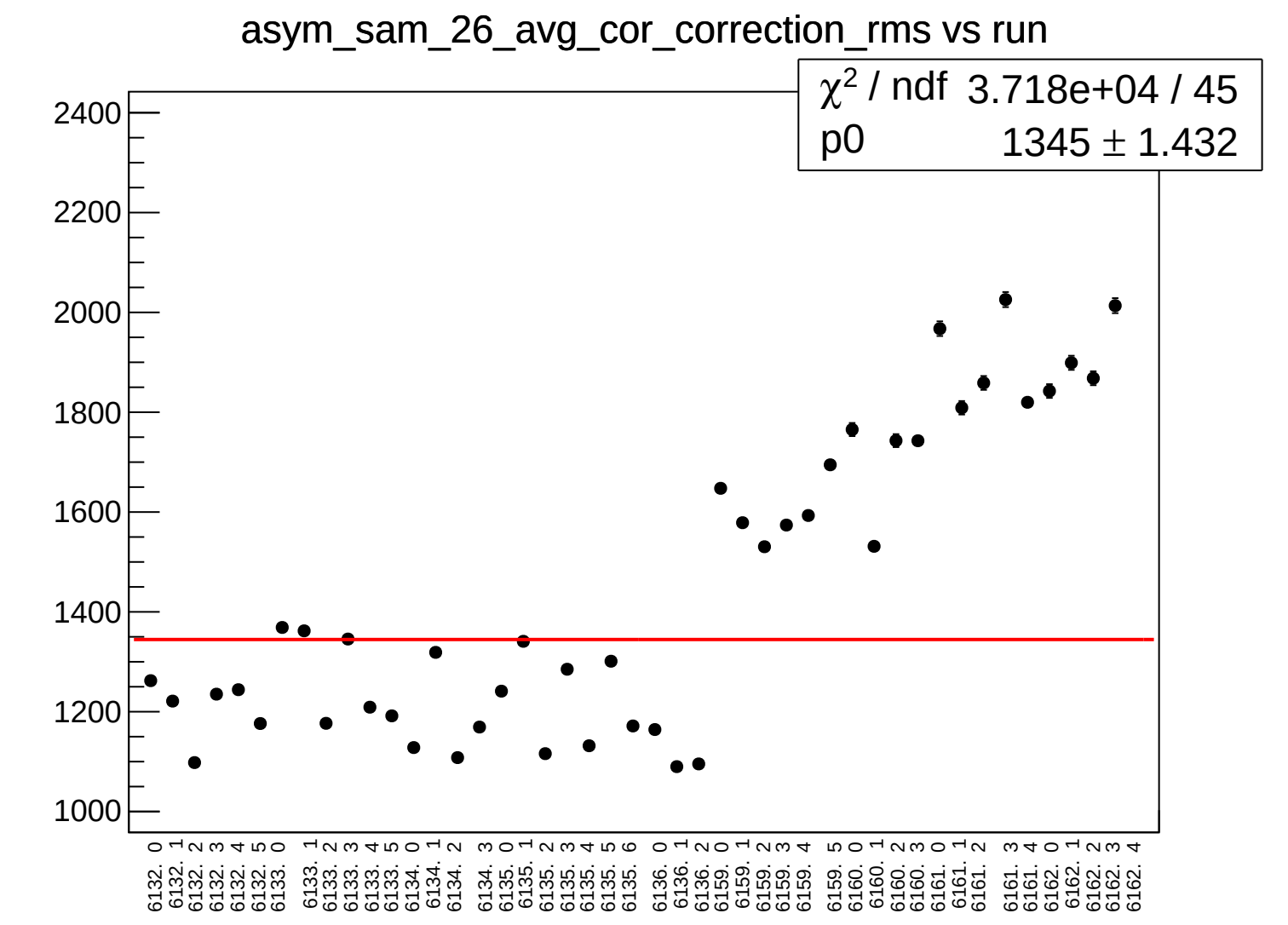
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 176.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02096
Std Dev 1.028
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 3.718e+04 / 45
p0 1345 ± 1.432
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
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6135. 6
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6160. 1
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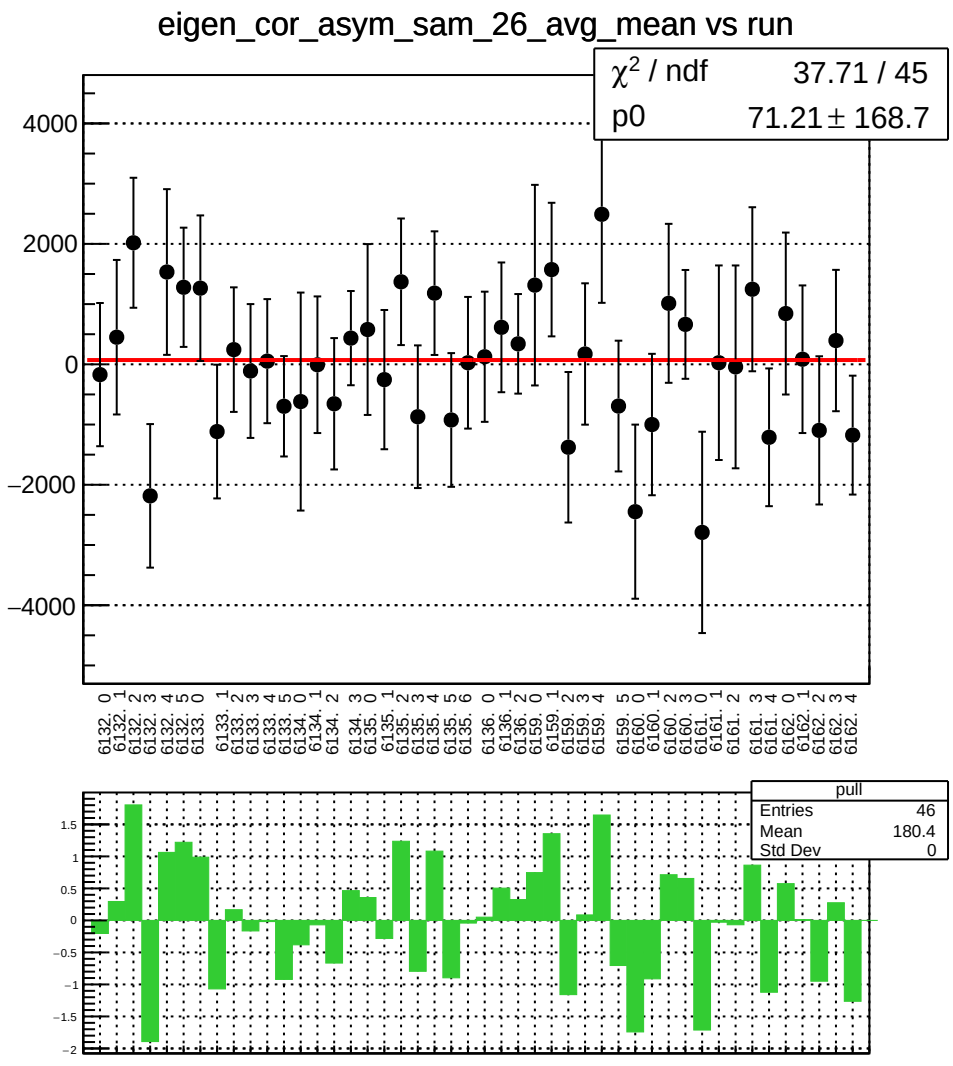
6162. 4


eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 37.71 / 45
p0 71.21 ± 168.7
4000
2000
0
−2000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6136. 0
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6136. 2
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6159. 3
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6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
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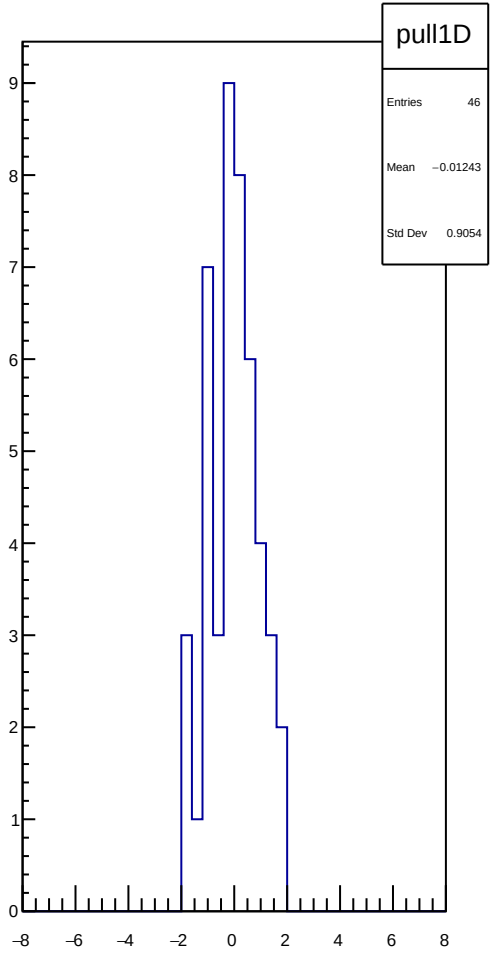
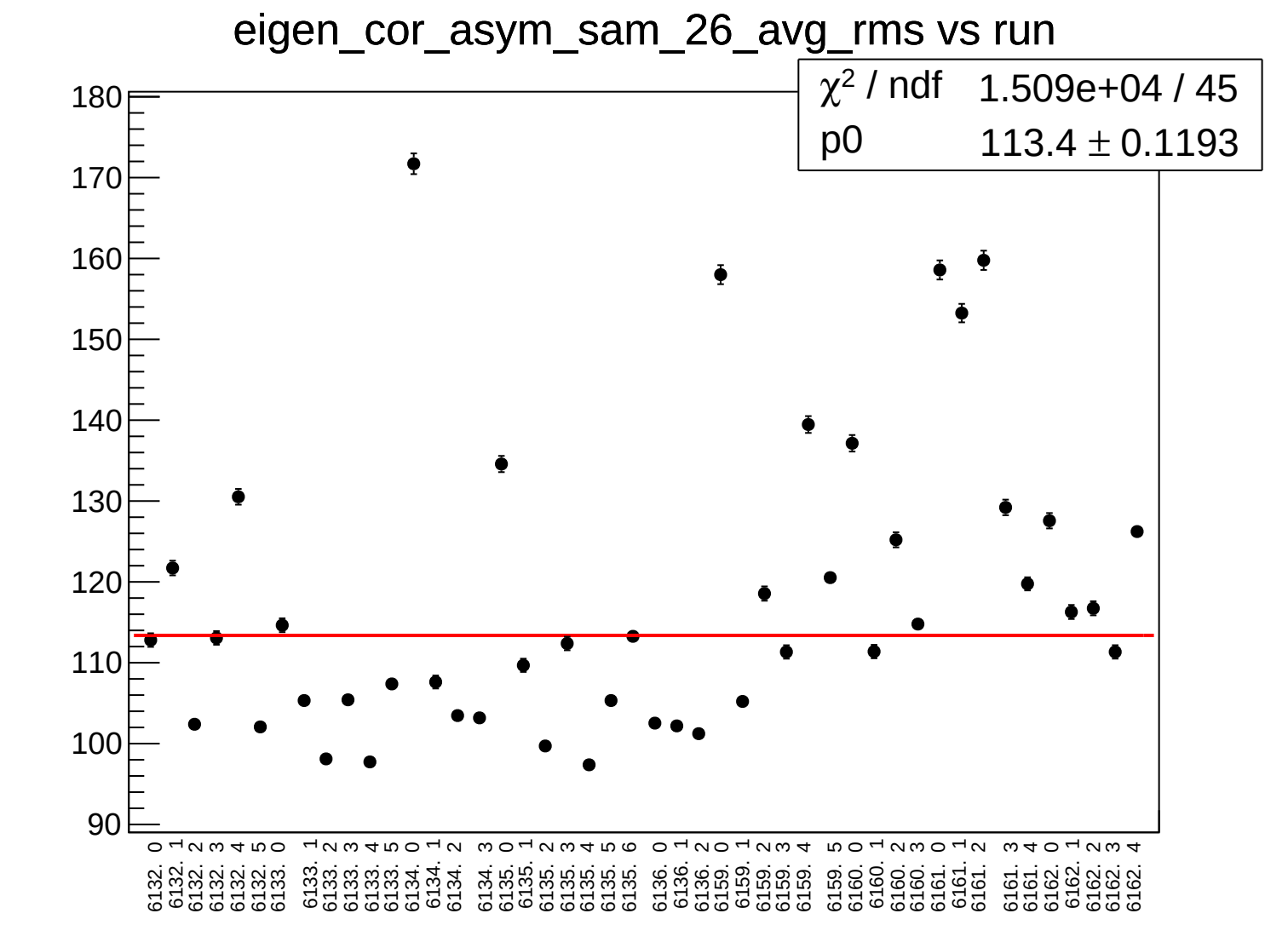
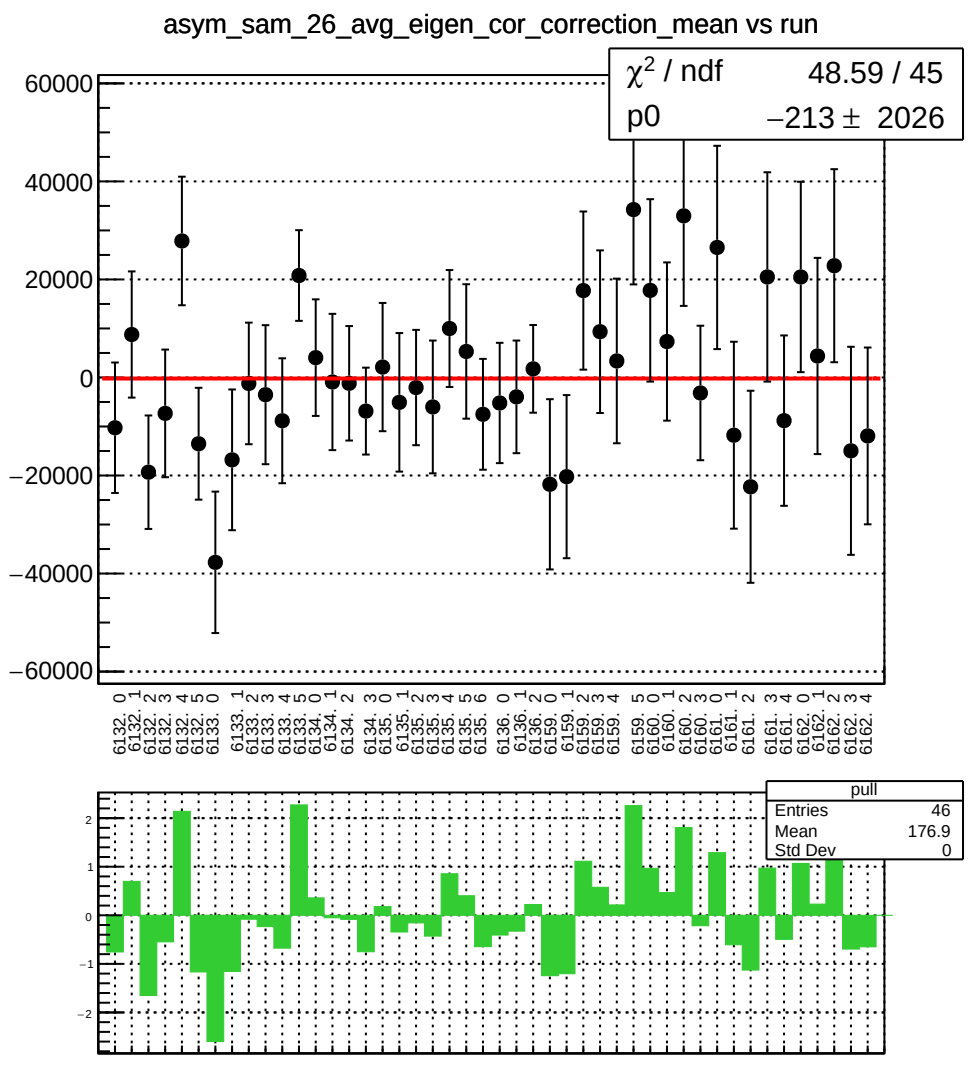
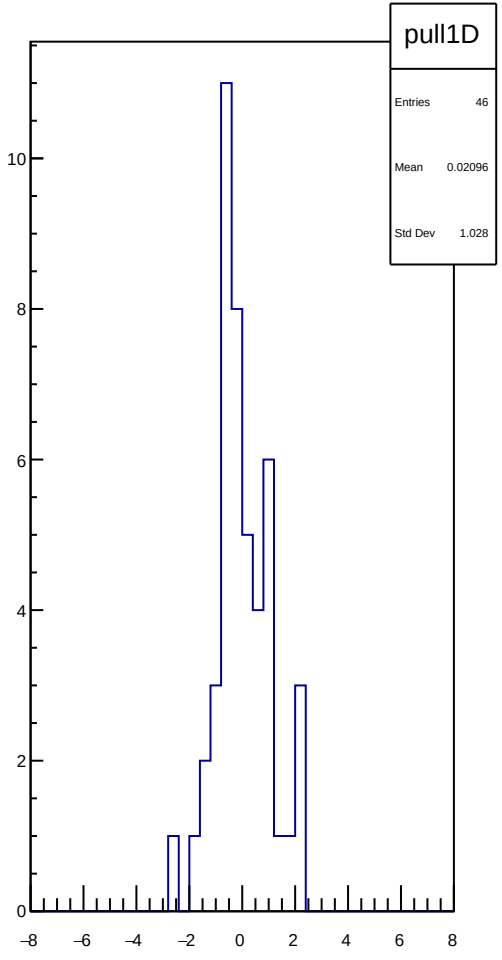
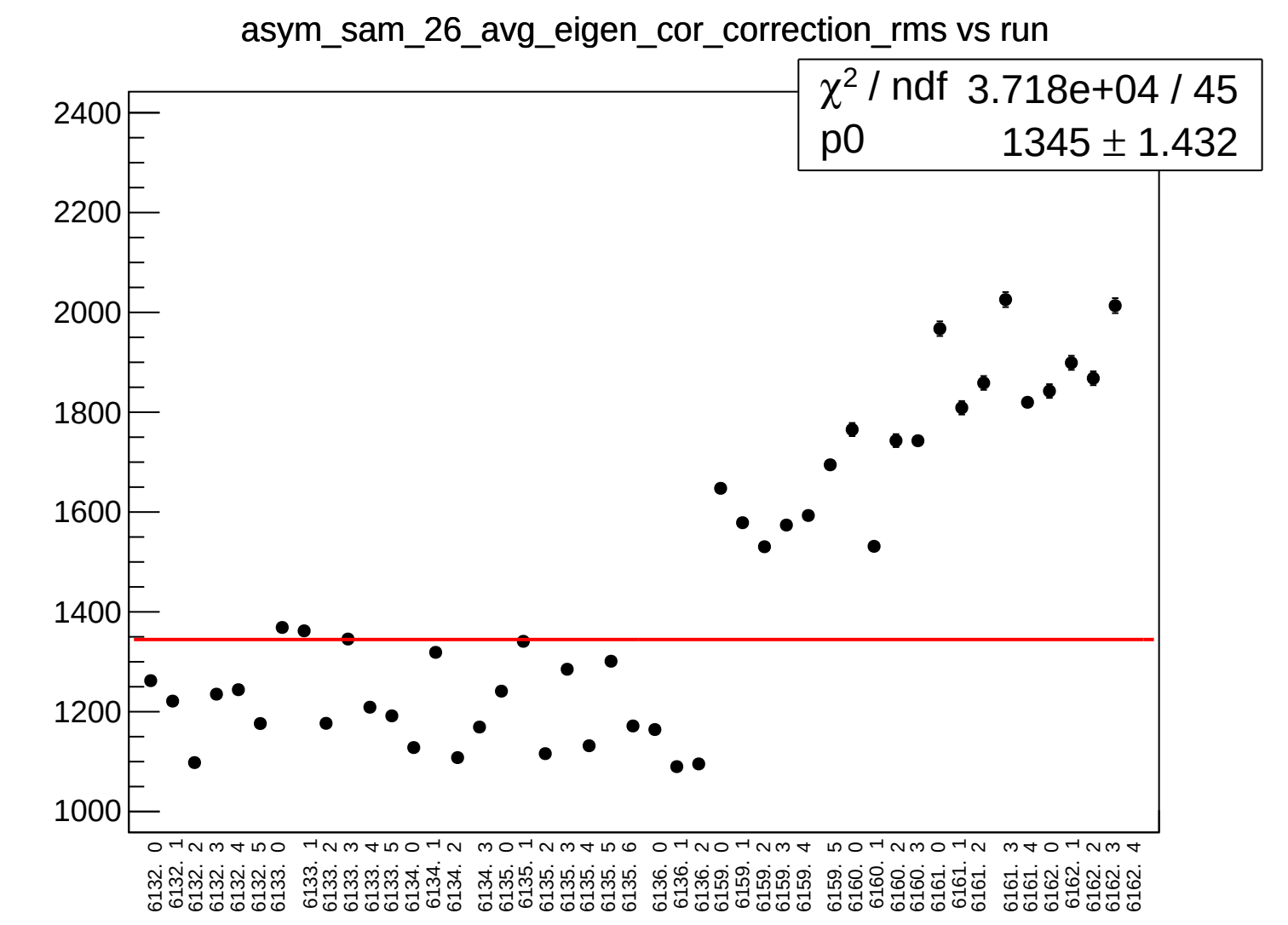
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 180.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

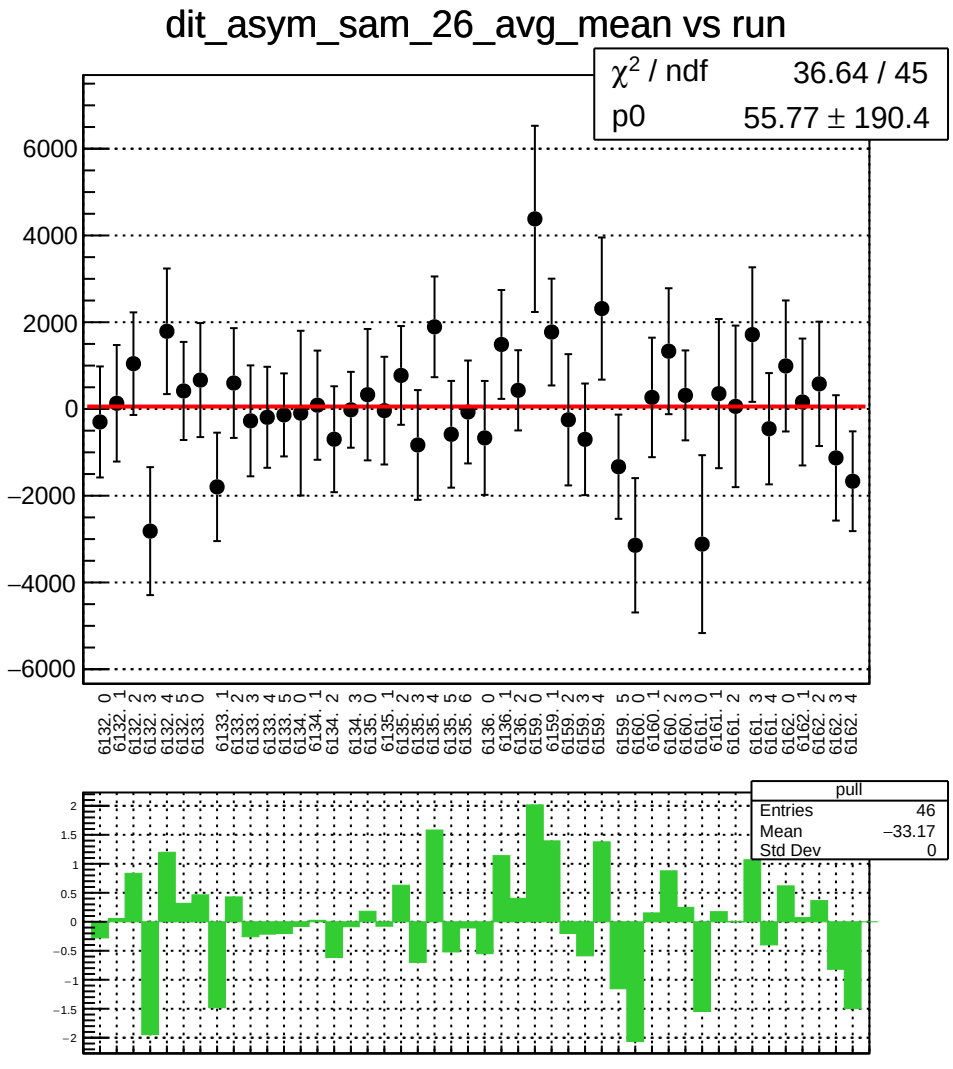

pull1D
Entries 46
Mean −0.01243
Std Dev 0.9054
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

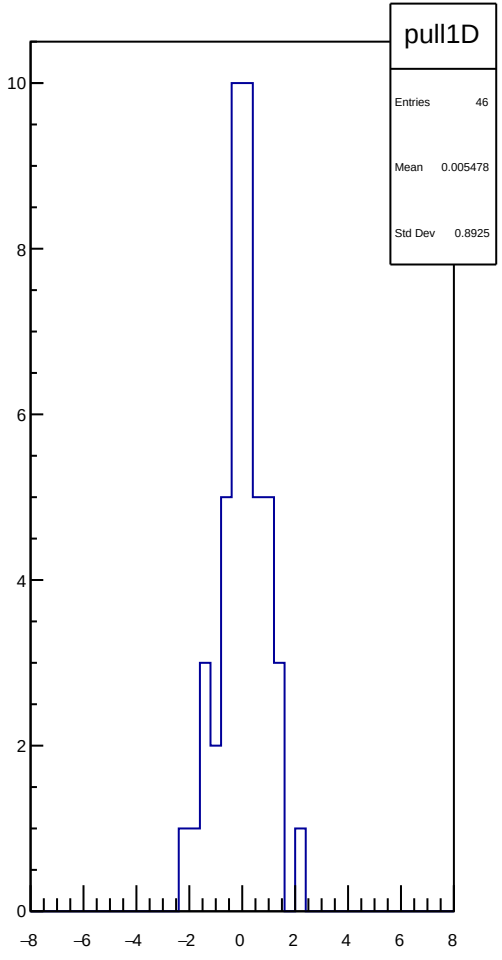

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 1.509e+04 / 45
p0 113.4 ± 0.1193
180
170
160
150
140
130
120
110
100
90
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

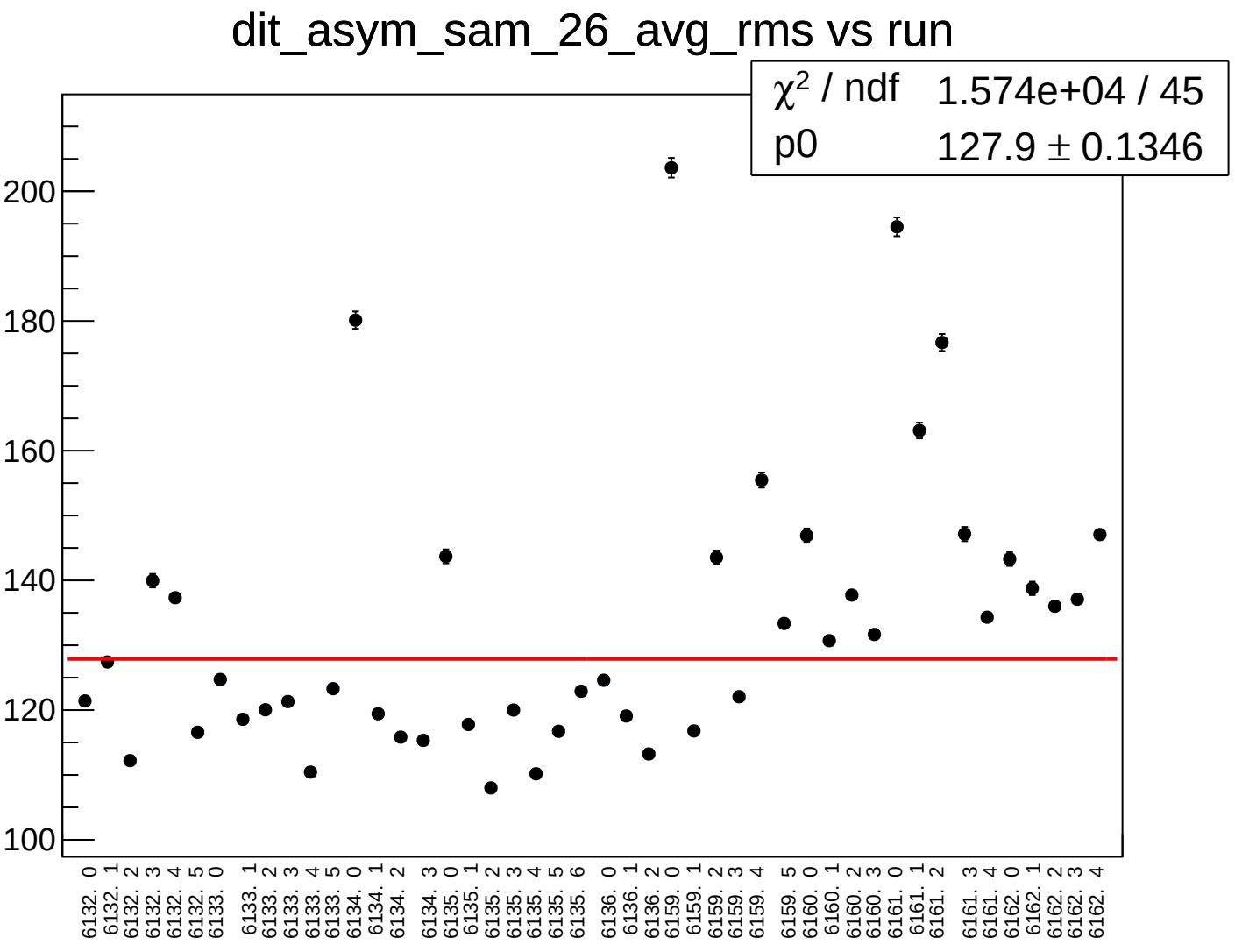

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 48.59 / 45
p0 −213 ± 2026
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 176.9
Std Dev 0
2
1
0
−1
−2

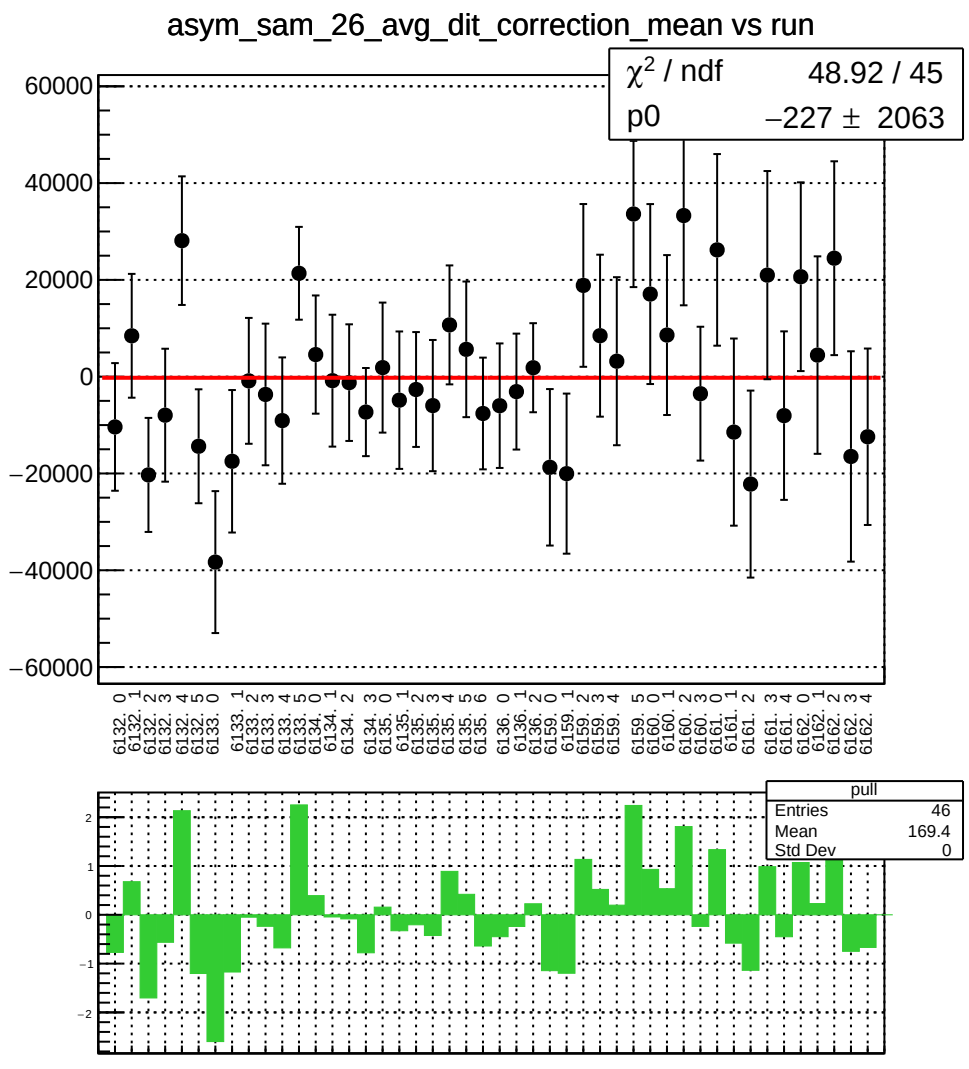

pull1D
Entries 46
Mean 0.02096
Std Dev 1.028
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

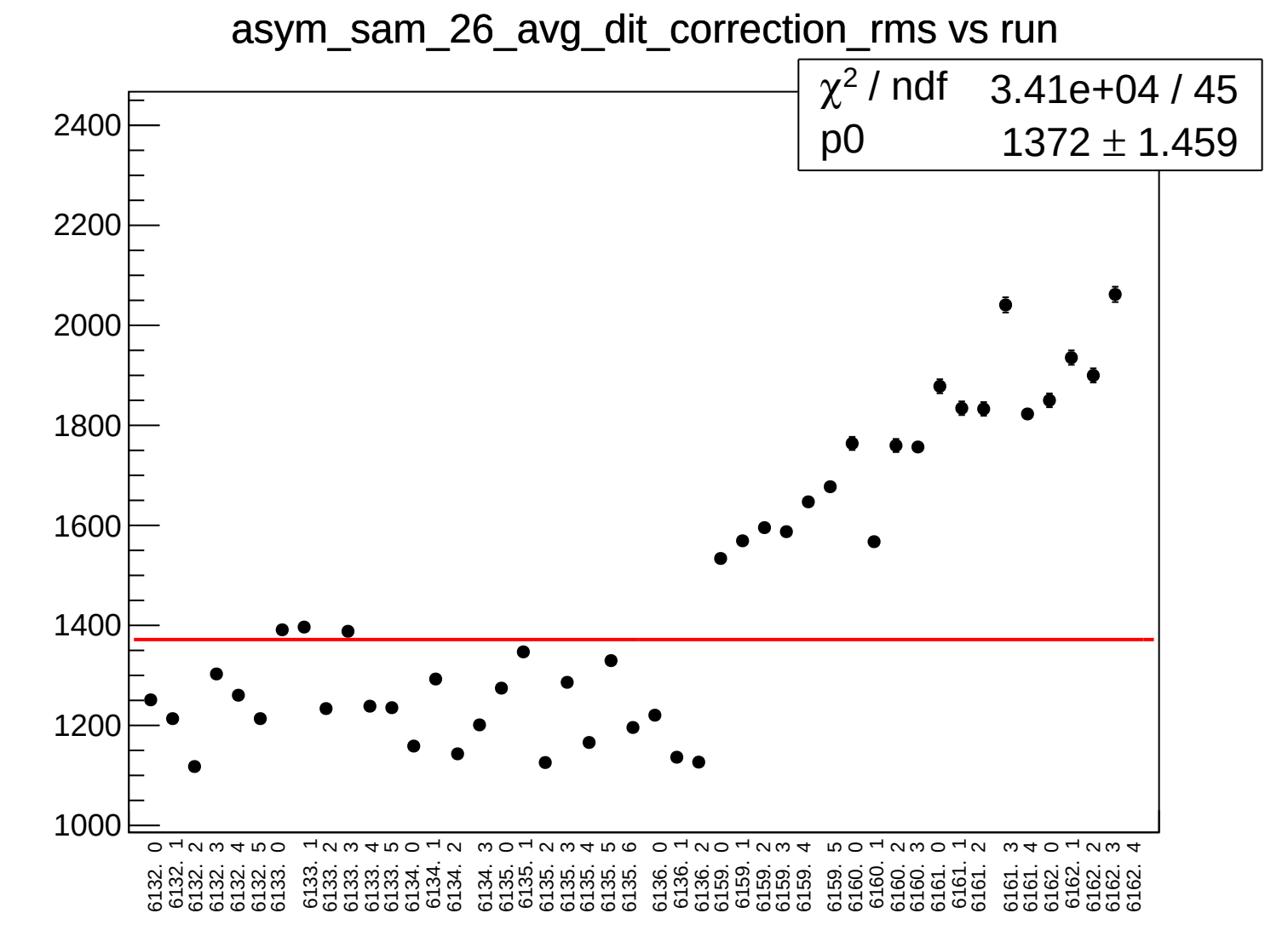

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.718e+04 / 45
p0 1345 ± 1.432
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

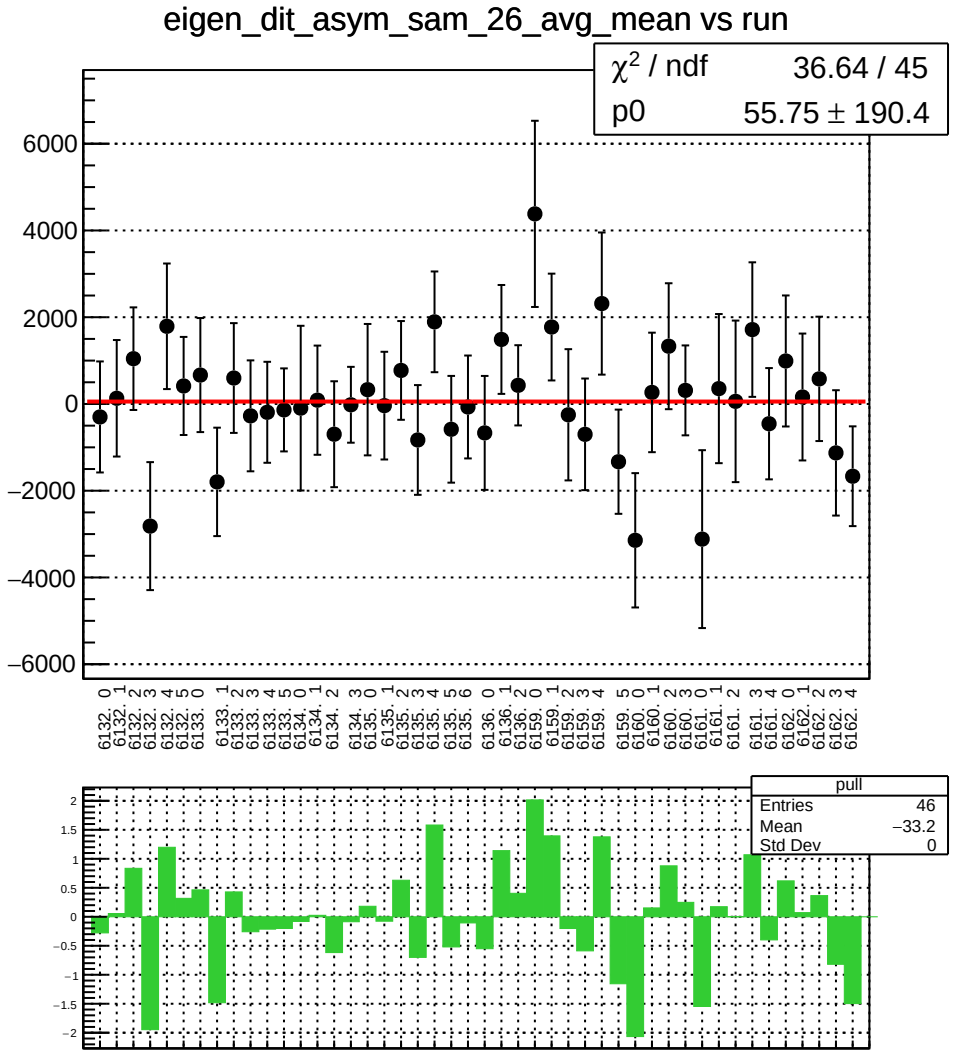

dit_asym_sam_26_avg_mean vs run
χ² / ndf 36.64 / 45
p0 55.77 ± 190.4
6000
4000
2000
0
−2000
−4000
−6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −33.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

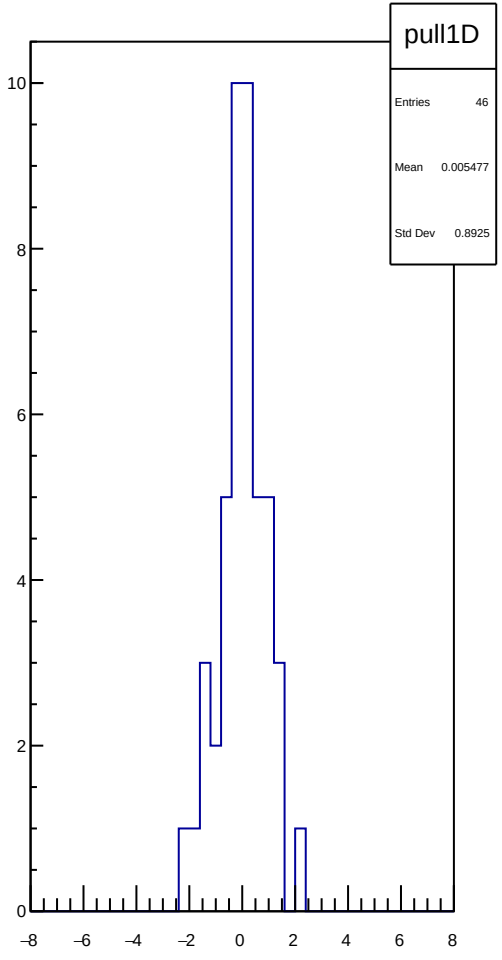

pull1D
Entries 46
Mean 0.005478
Std Dev 0.8925
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

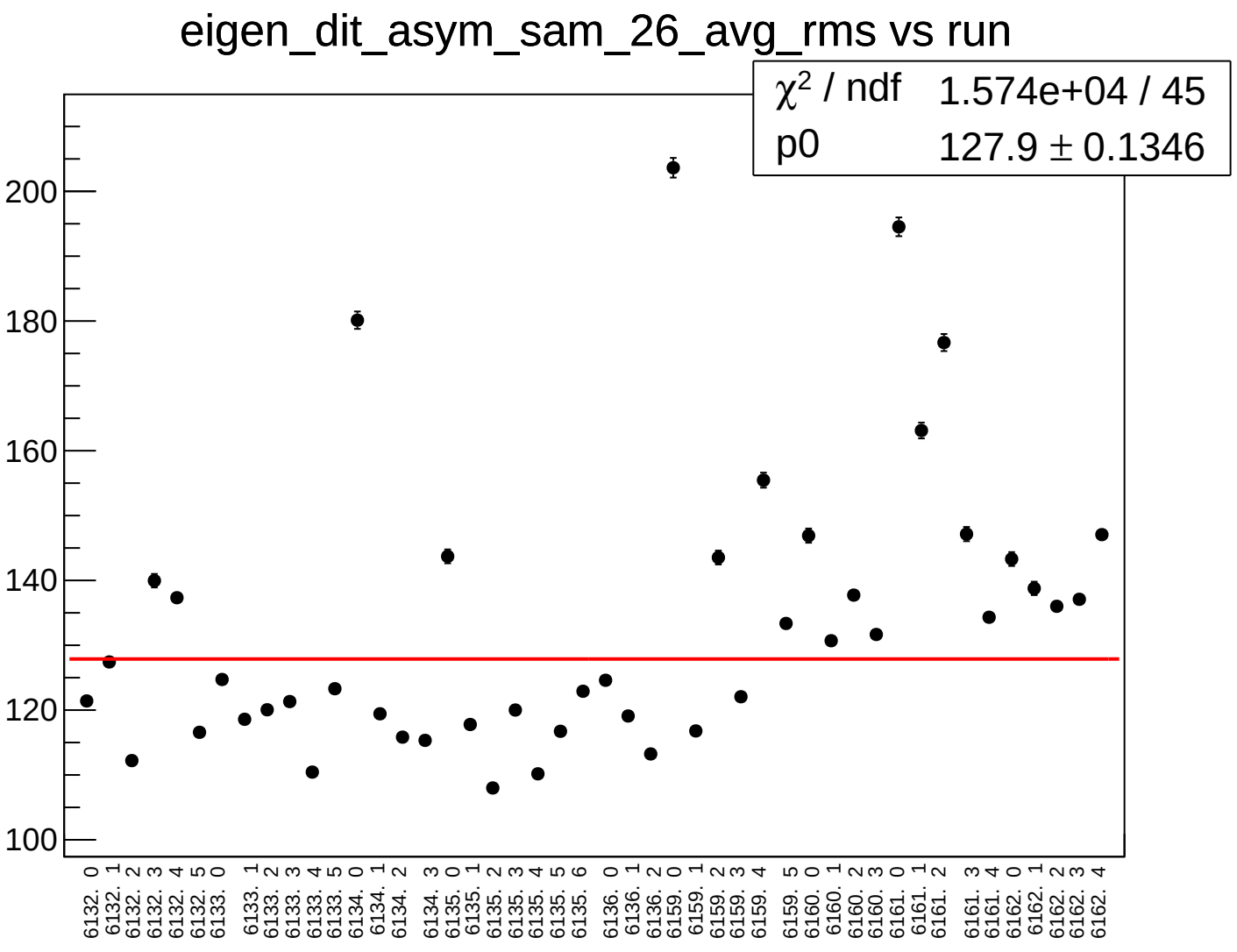

dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.574e+04 / 45
p0 127.9 ± 0.1346
200
180
160
140
120
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

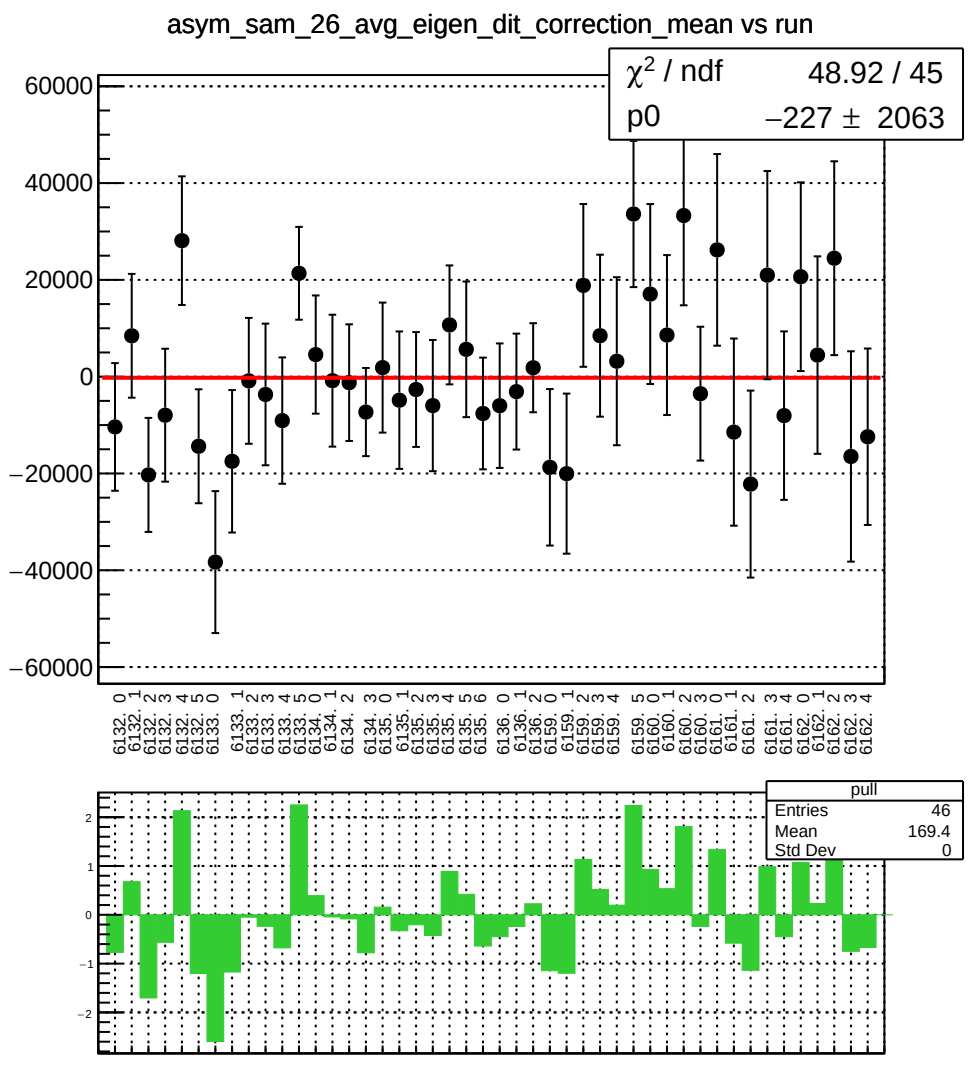

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 48.92 / 45
p0 −227 ± 2063
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 169.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02272
Std Dev 1.031
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

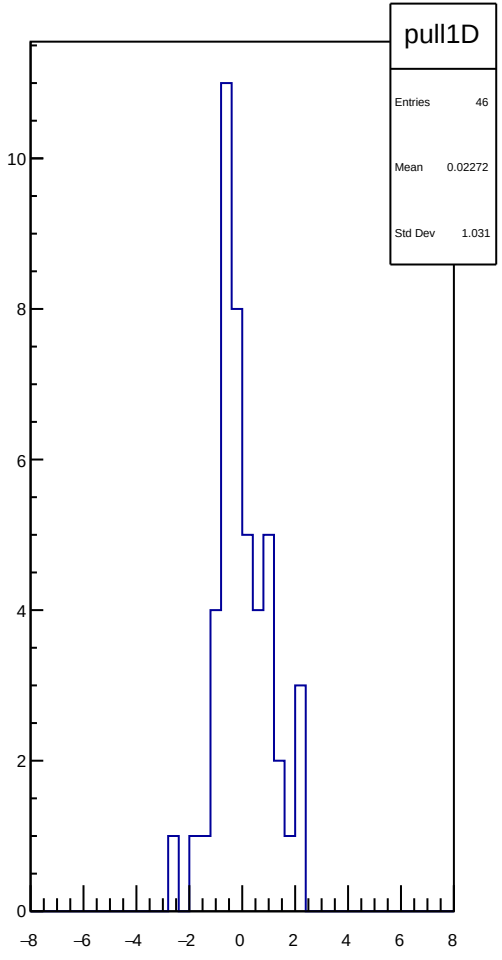

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 3.41e+04 / 45
p0 1372 ± 1.459
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

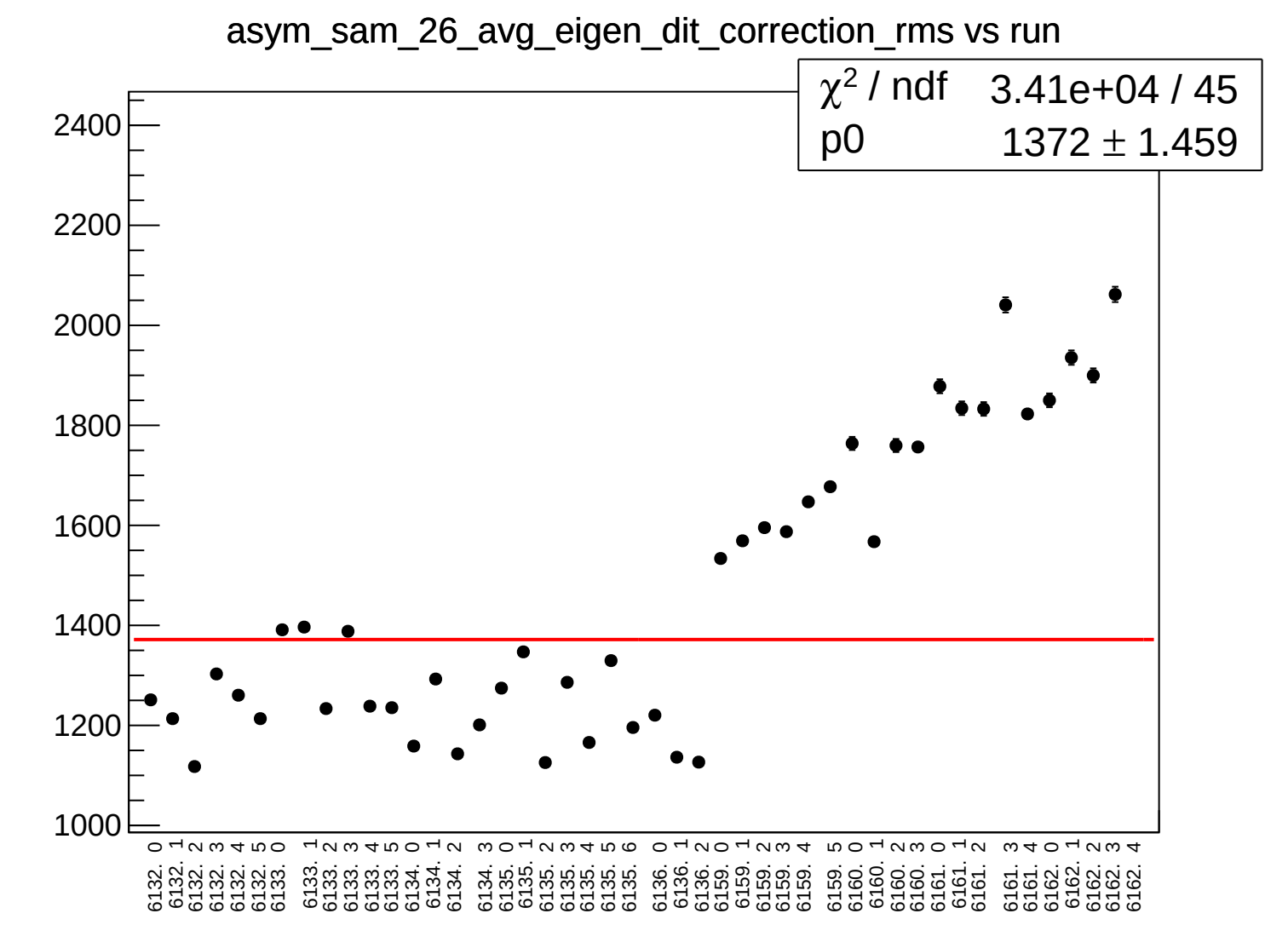

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 36.64 / 45
p0 55.75 ± 190.4
pull
Entries 46
Mean −33.2
Std Dev 0

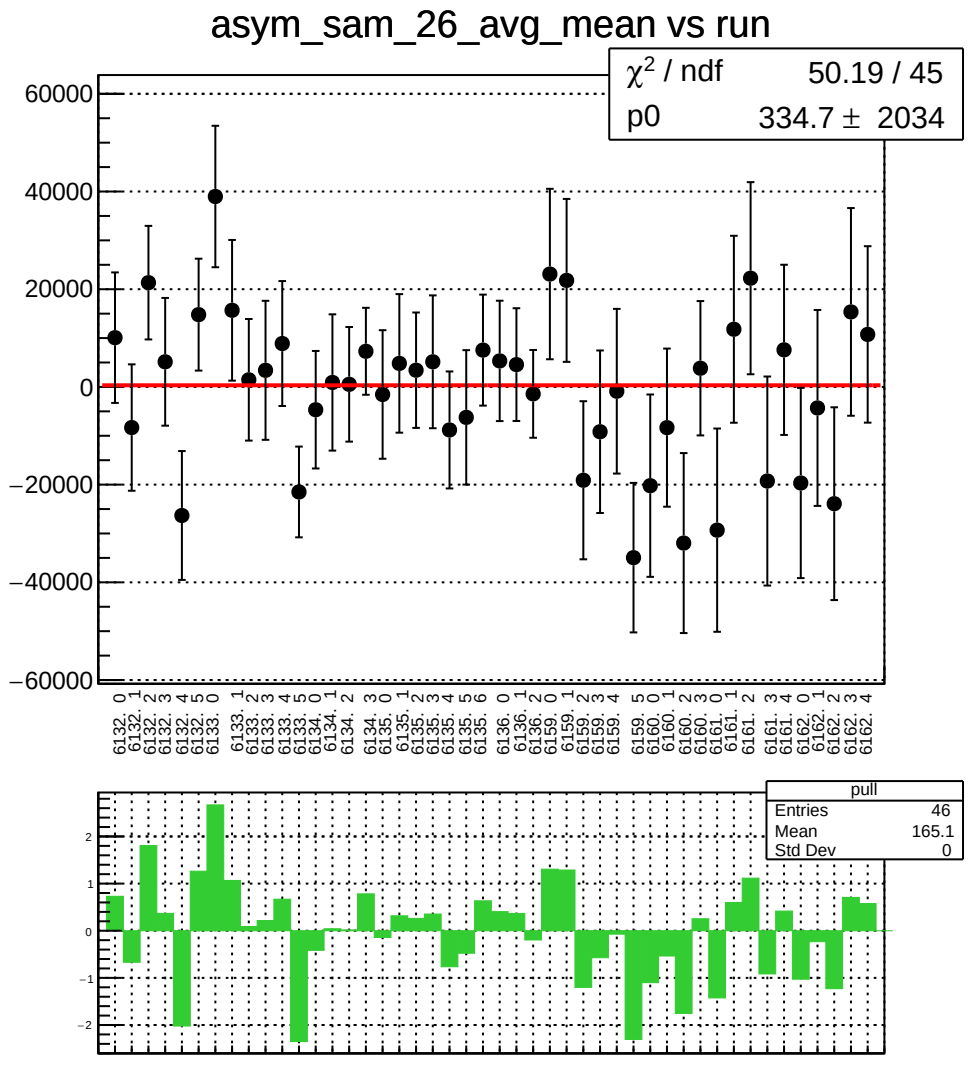

pull1D
Entries 46
Mean 0.005477
Std Dev 0.8925

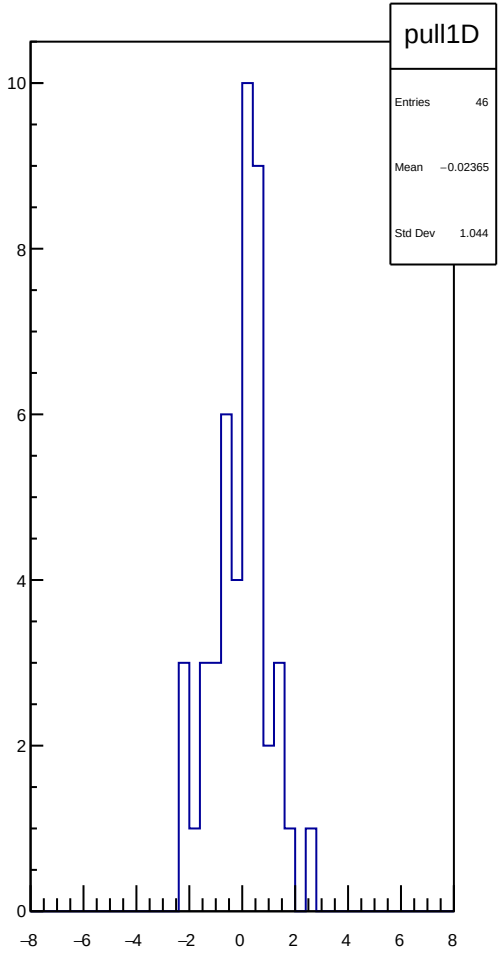

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.574e+04 / 45
p0 127.9 ± 0.1346
200
180
160
140
120
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

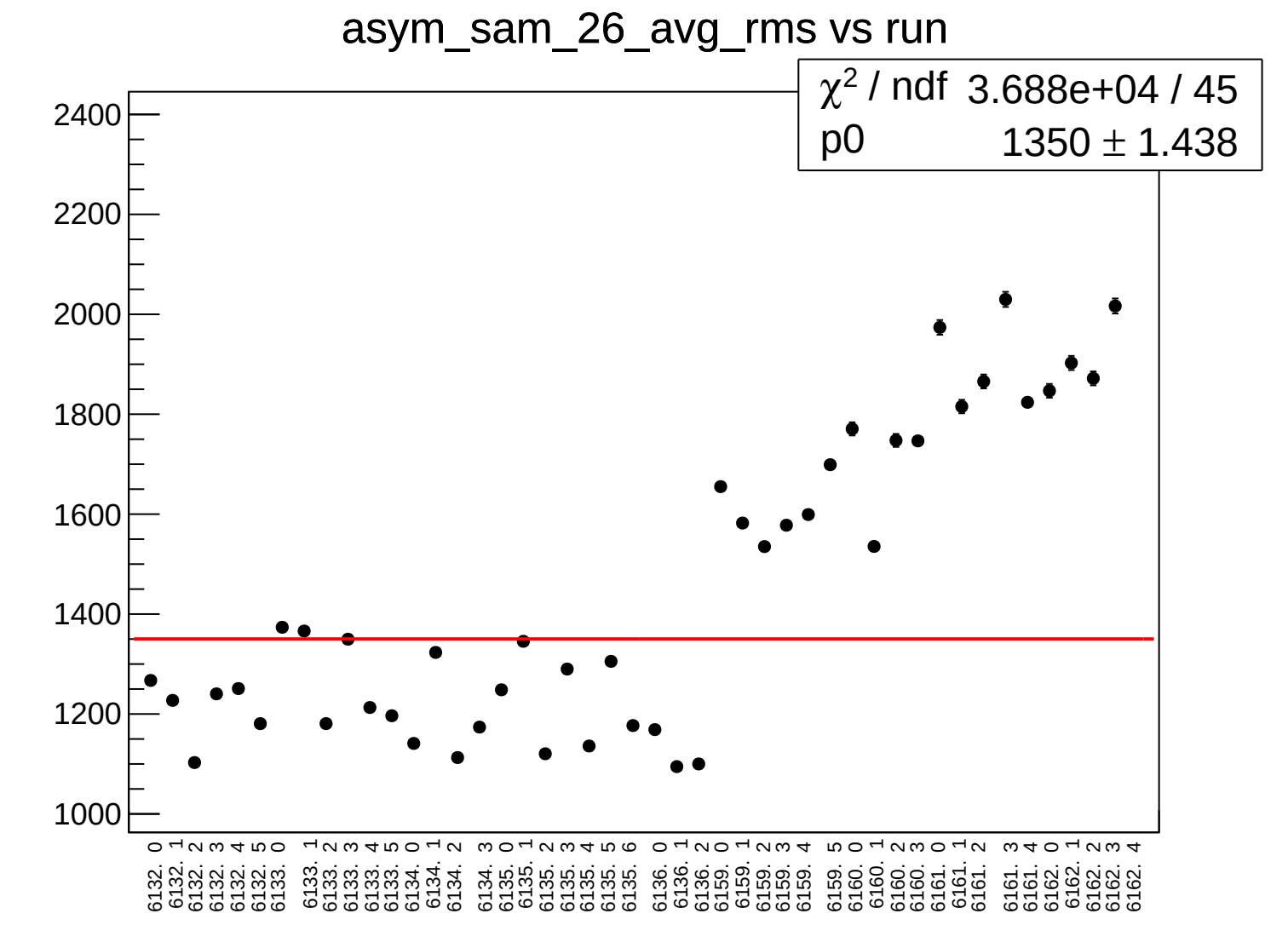

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 48.92 / 45
p0 −227 ± 2063
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 169.4
Std Dev 0
2
1
0
−1
−2

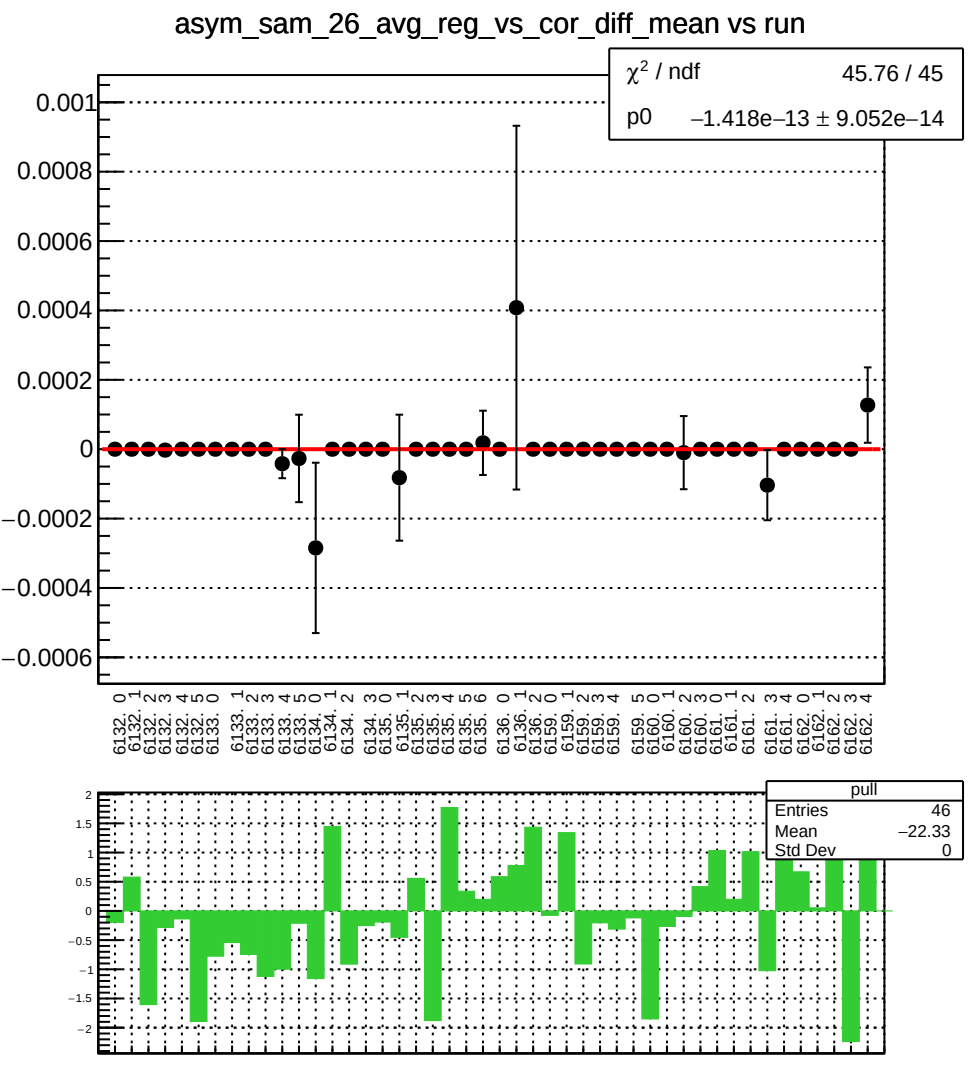

pull1D
Entries 46
Mean 0.02272
Std Dev 1.031
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

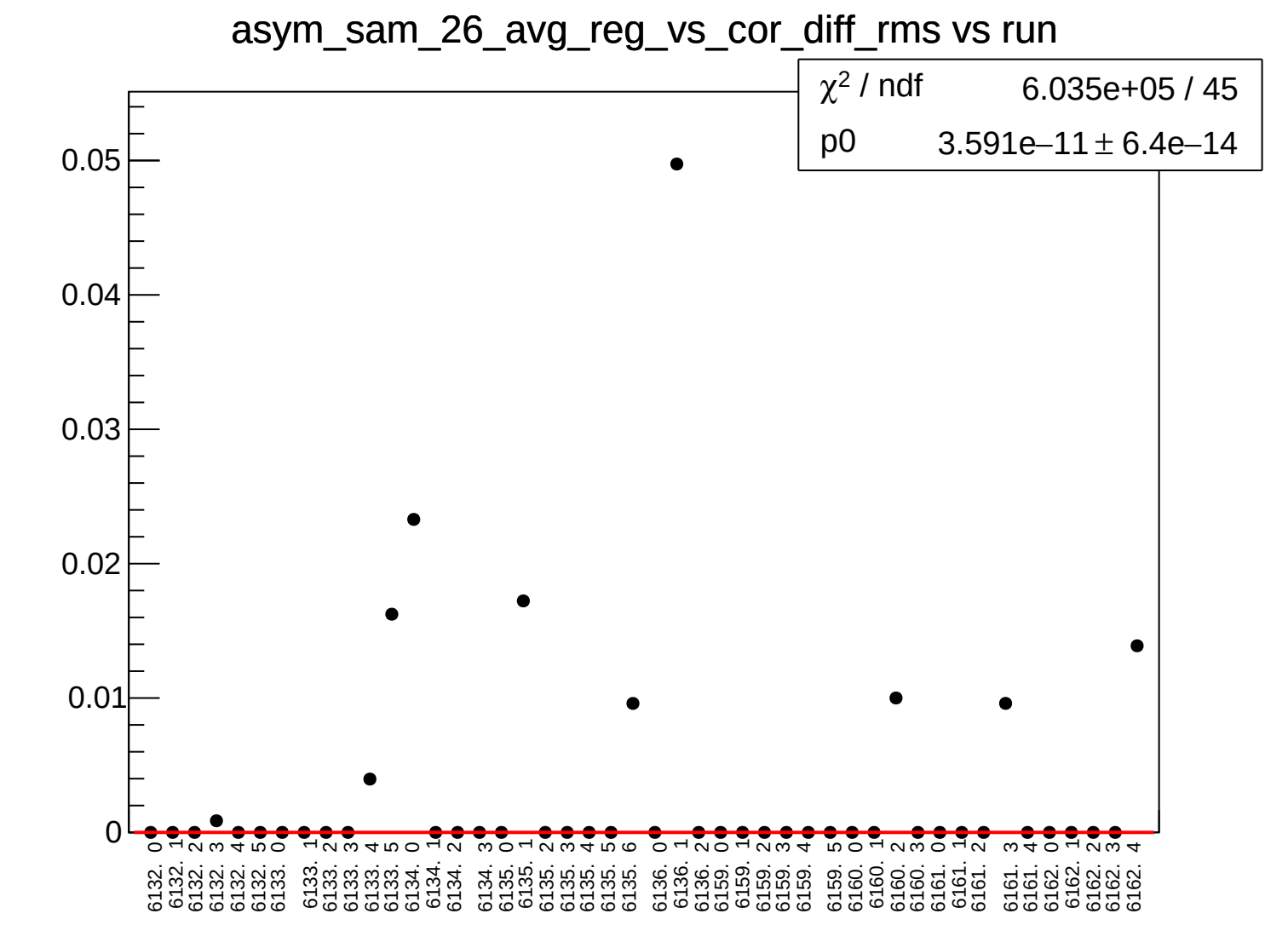

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.41e+04 / 45
p0 1372 ± 1.459
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

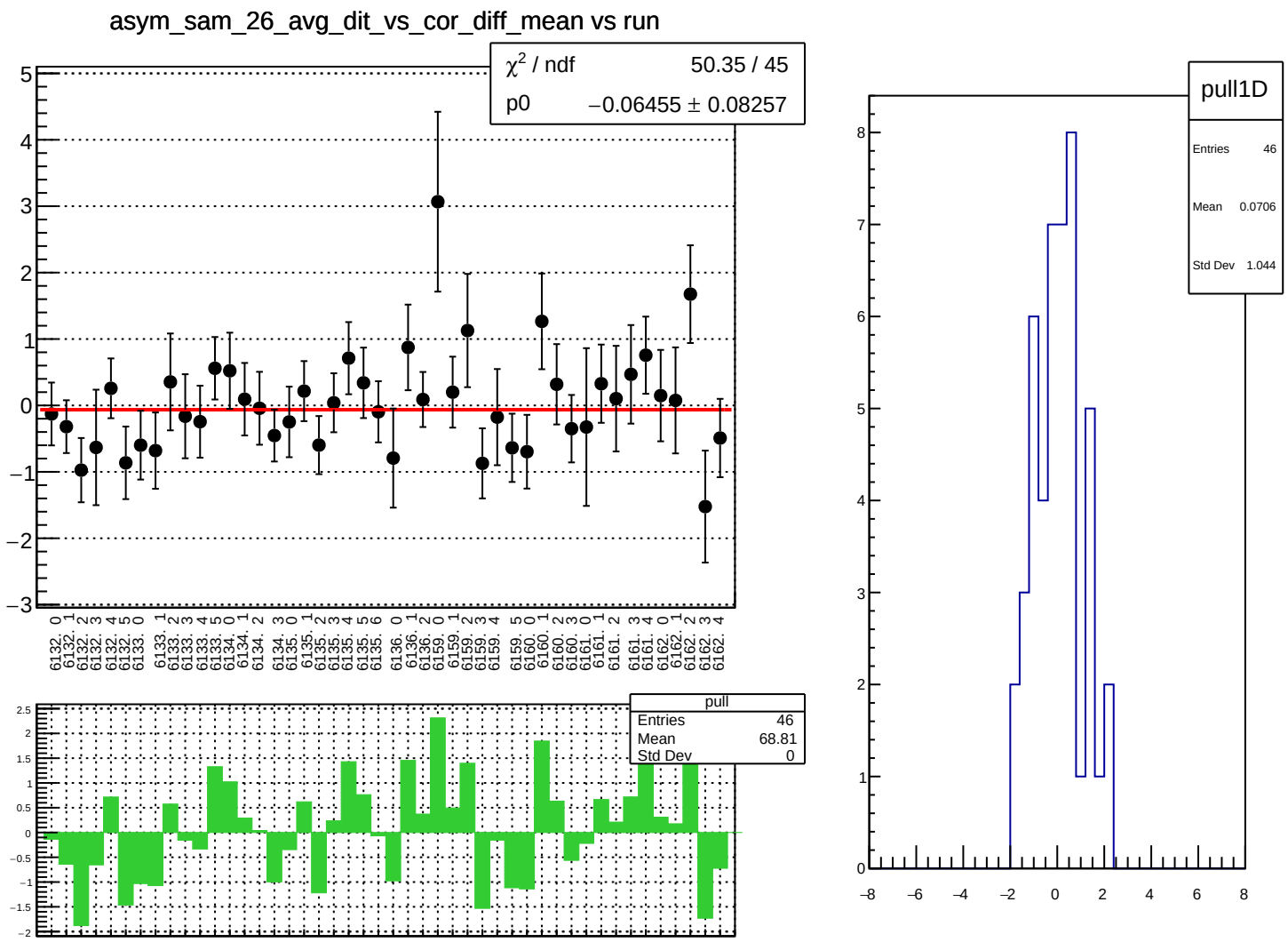

asym_sam_26_avg_mean vs run
χ² / ndf 50.19 / 45
p0 334.7 ± 2034
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 165.1
Std Dev 0
2
1
0
−1
−2

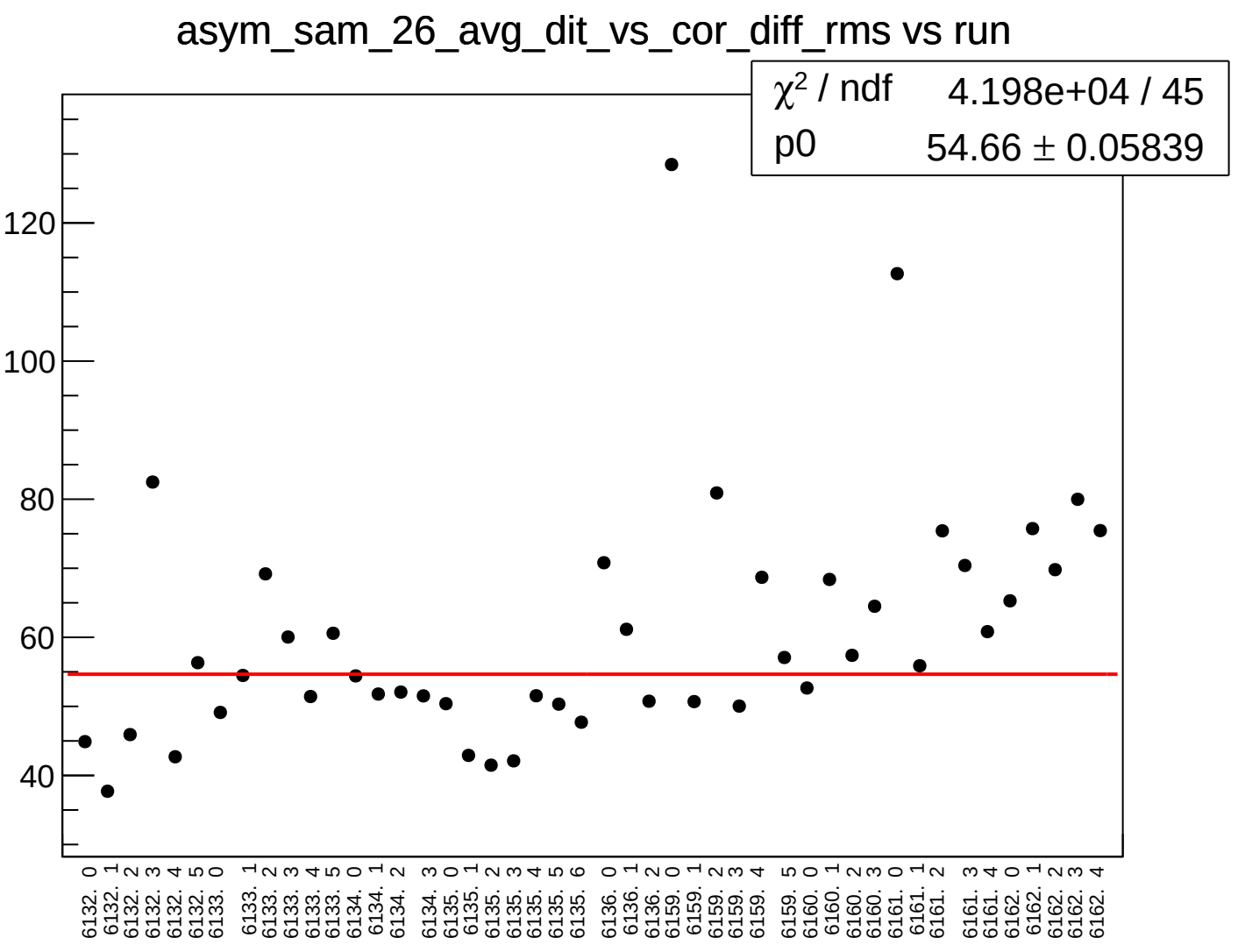

pull1D
Entries 46
Mean −0.02365
Std Dev 1.044
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_rms vs run
χ² / ndf 3.688e+04 / 45
p0 1350 ± 1.438
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 45.76 / 45
p0 −1.418e−13 ± 9.052e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −22.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.08877
Std Dev 0.9935
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.035e+05 / 45
p0 3.591e−11 ± 6.4e−14
0.05
0.04
0.03
0.02
0.01
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 50.35 / 45
p0 −0.06455 ± 0.08257
pull
Entries 46
Mean 68.81
Std Dev 0
pull1D
Entries 46
Mean 0.0706
Std Dev 1.044


asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.198e+04 / 45
p0 54.66 ± 0.05839
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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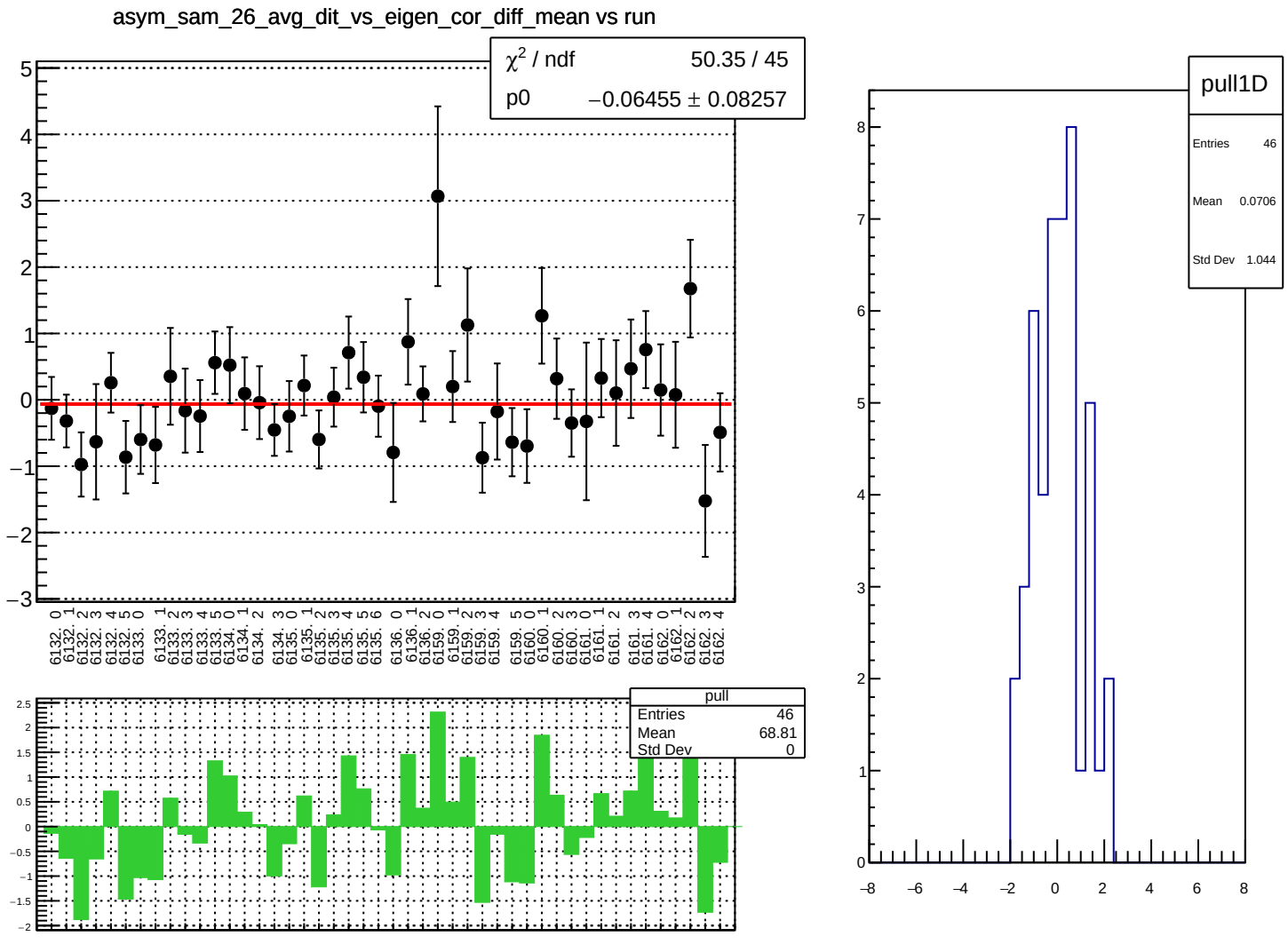
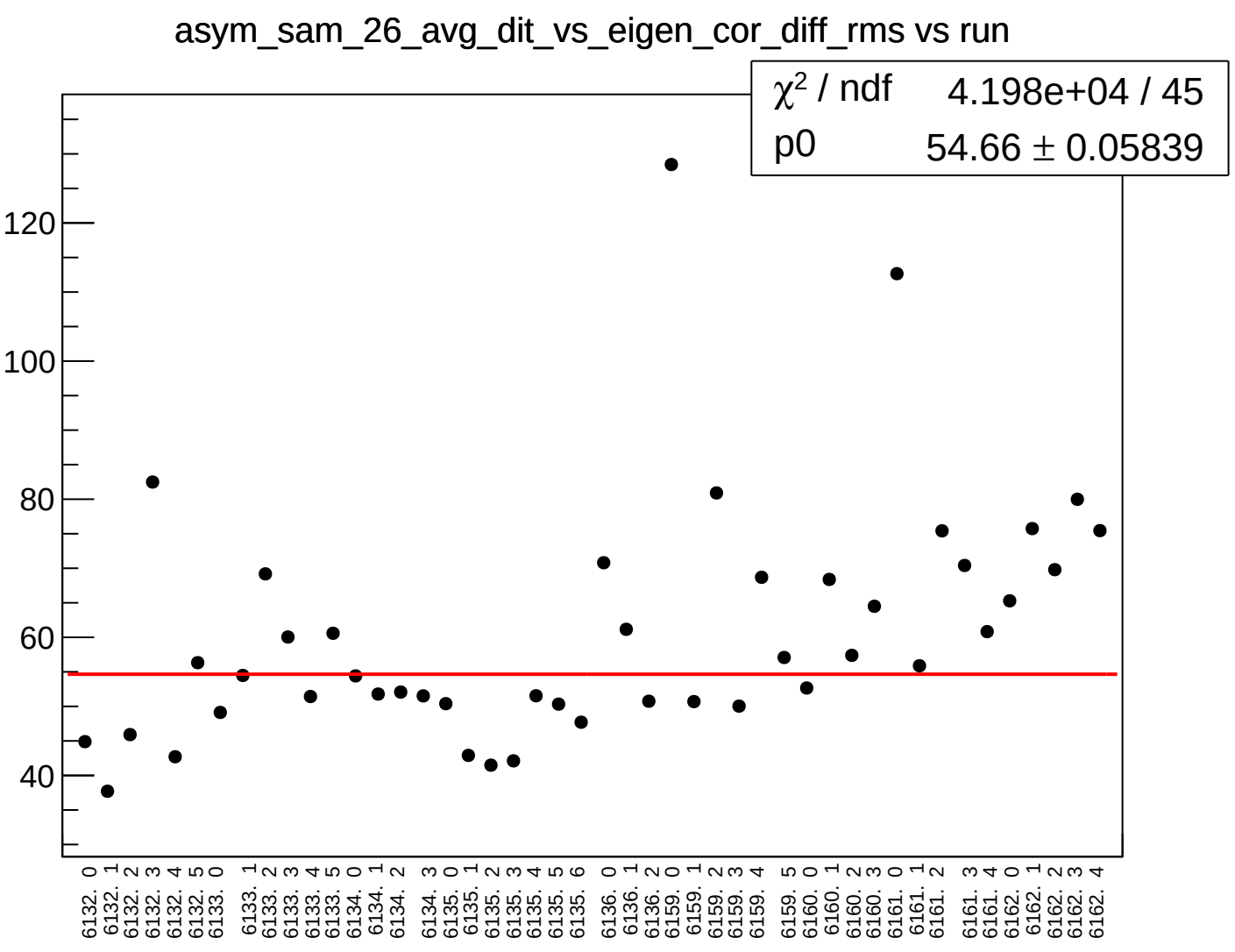
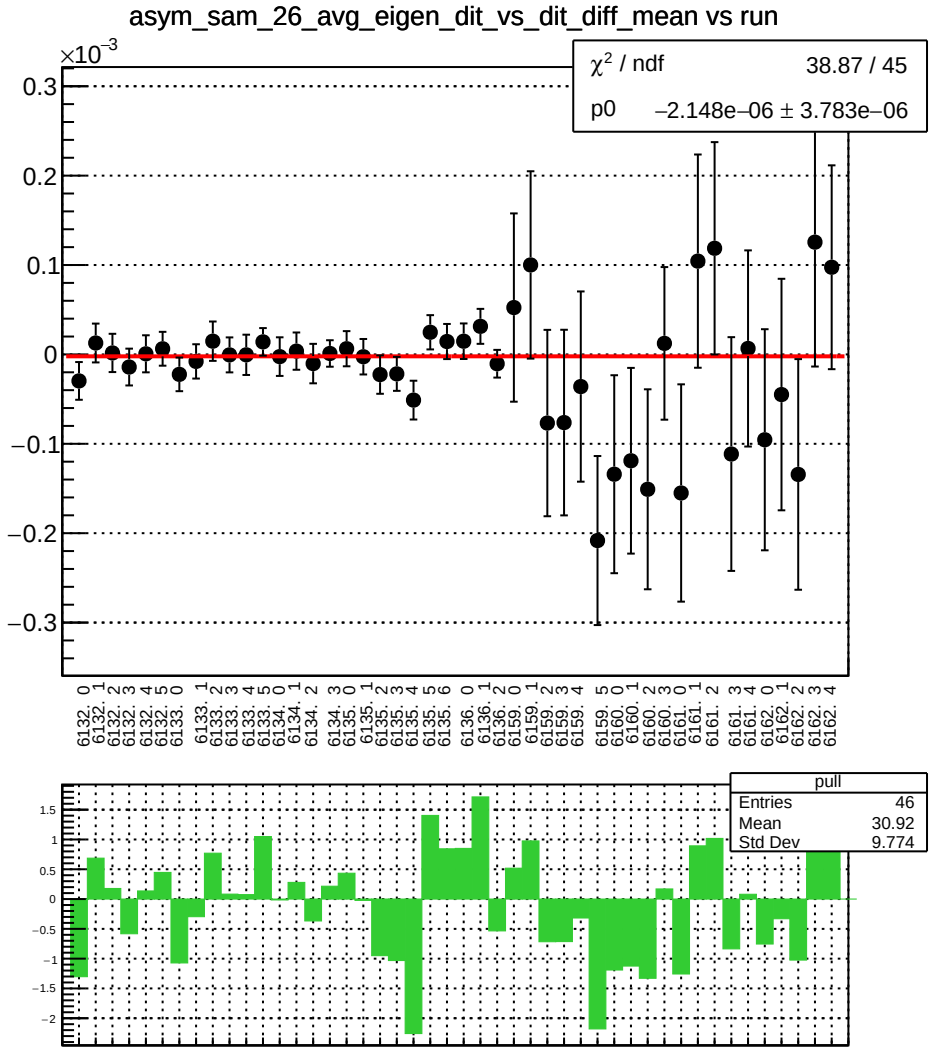
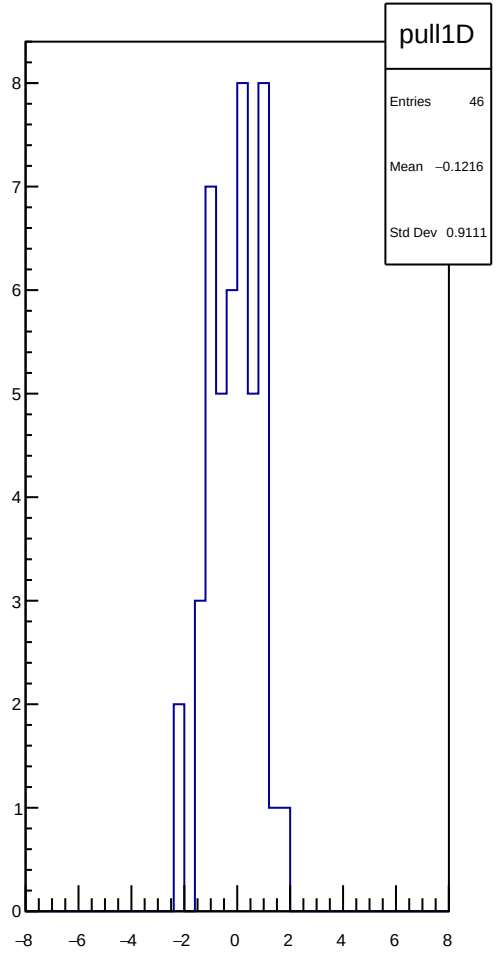
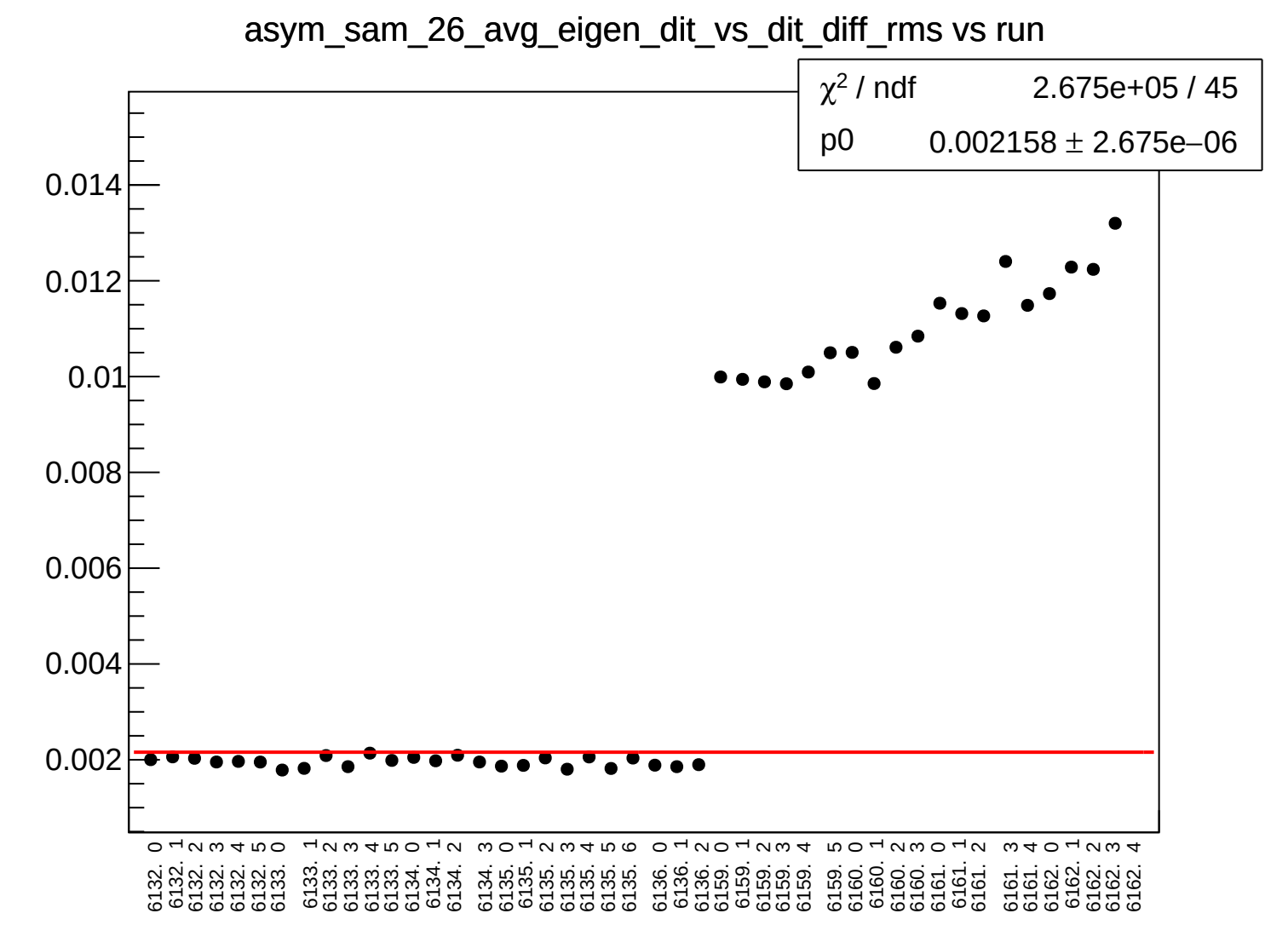
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

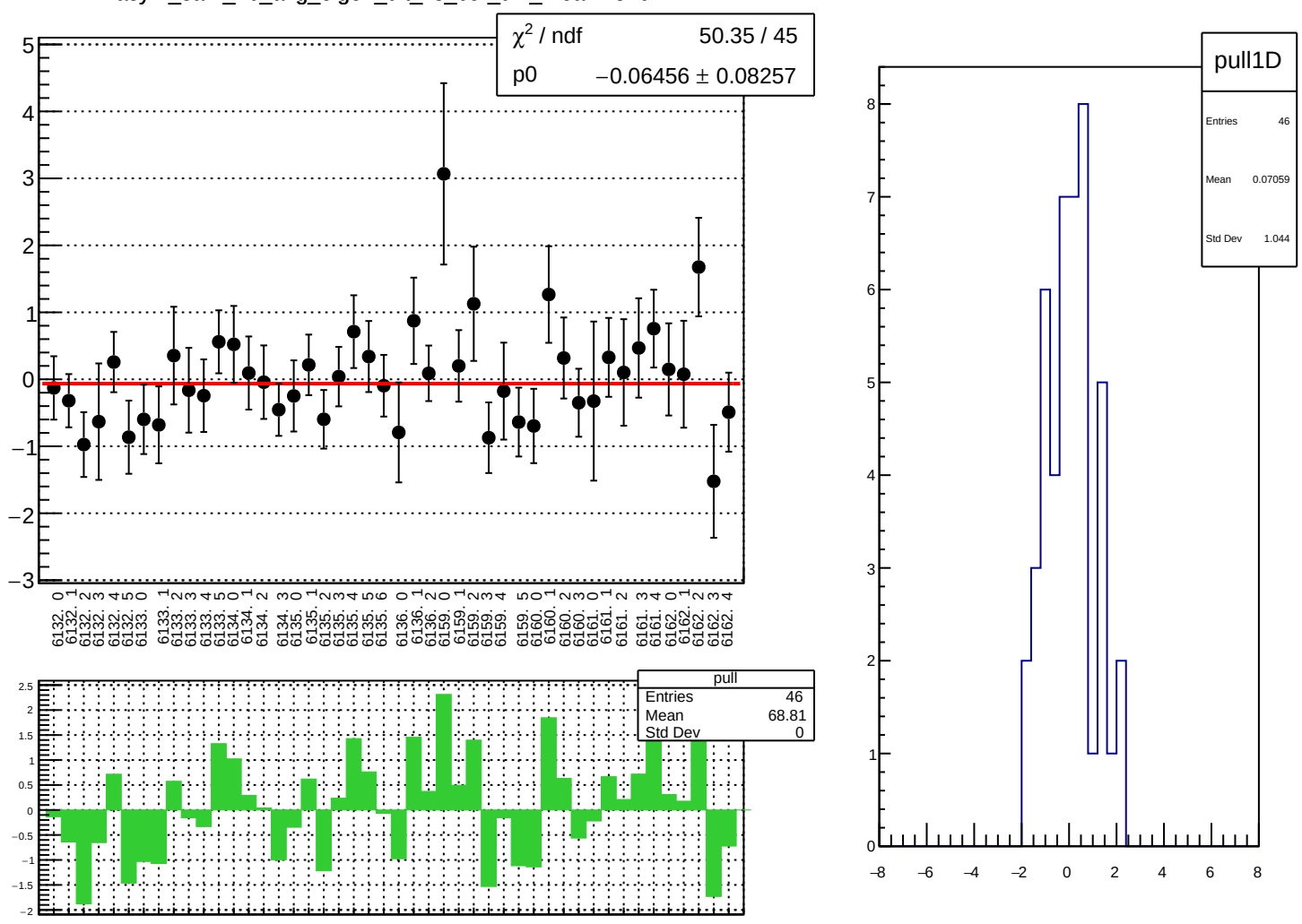

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.35 / 45
p0 −0.06455 ± 0.08257
pull
Entries 46
Mean 68.81
Std Dev 0
pull1D
Entries 46
Mean 0.0706
Std Dev 1.044

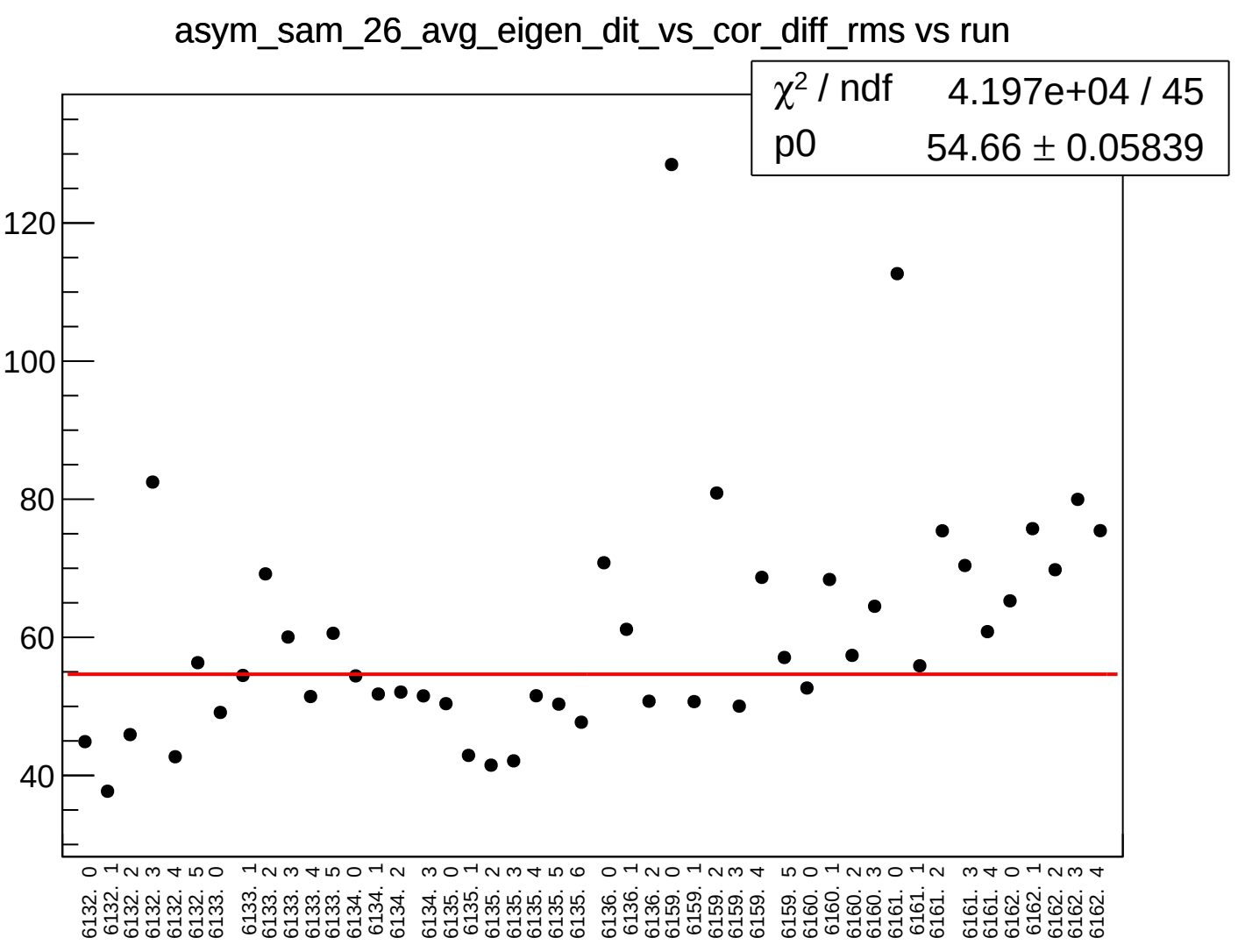

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.198e+04 / 45
p0 54.66 ± 0.05839
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

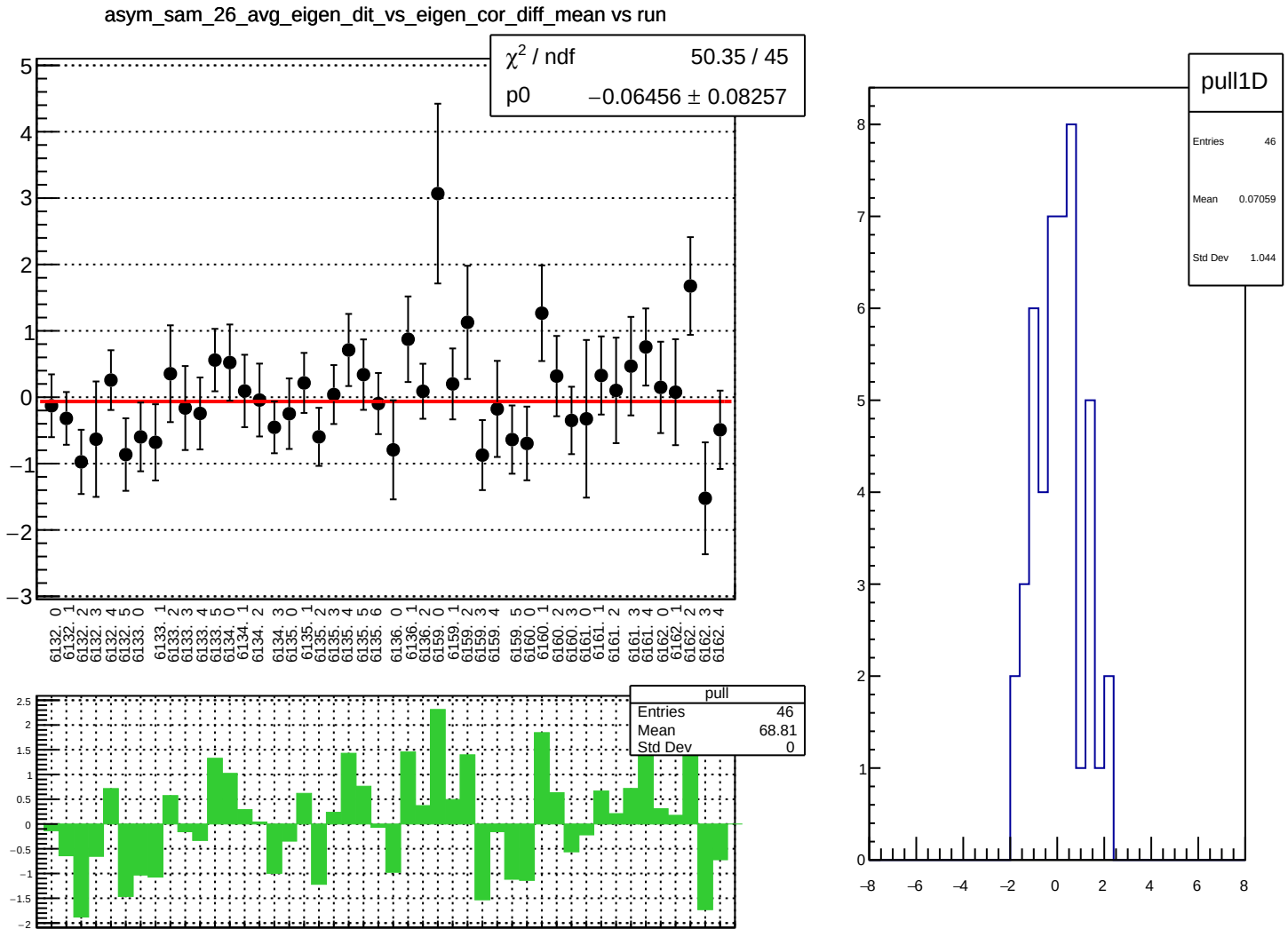

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 38.87 / 45
p0 −2.148e−06 ± 3.783e−06
pull
Entries 46
Mean 30.92
Std Dev 9.774

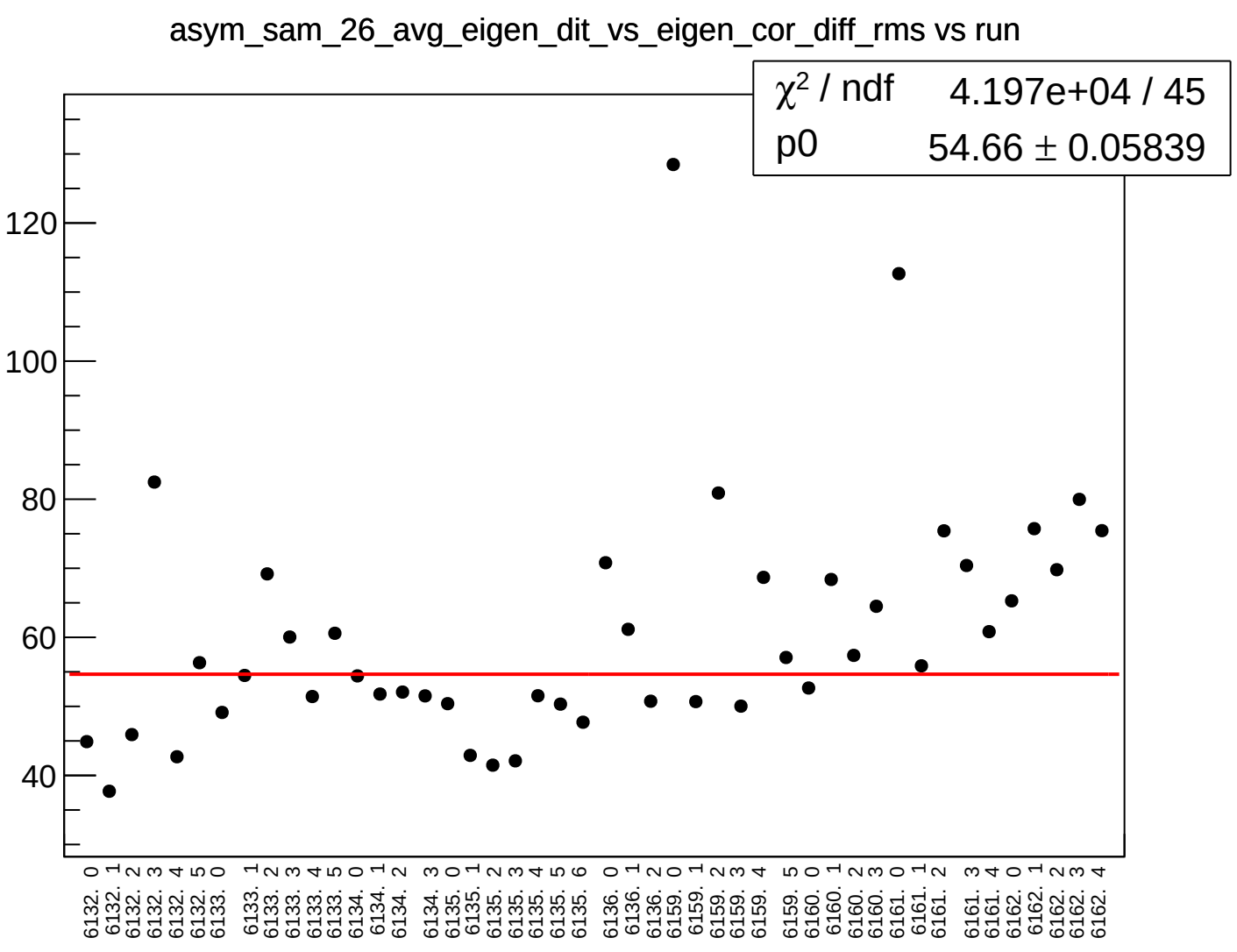

pull1D
Entries 46
Mean −0.1216
Std Dev 0.9111

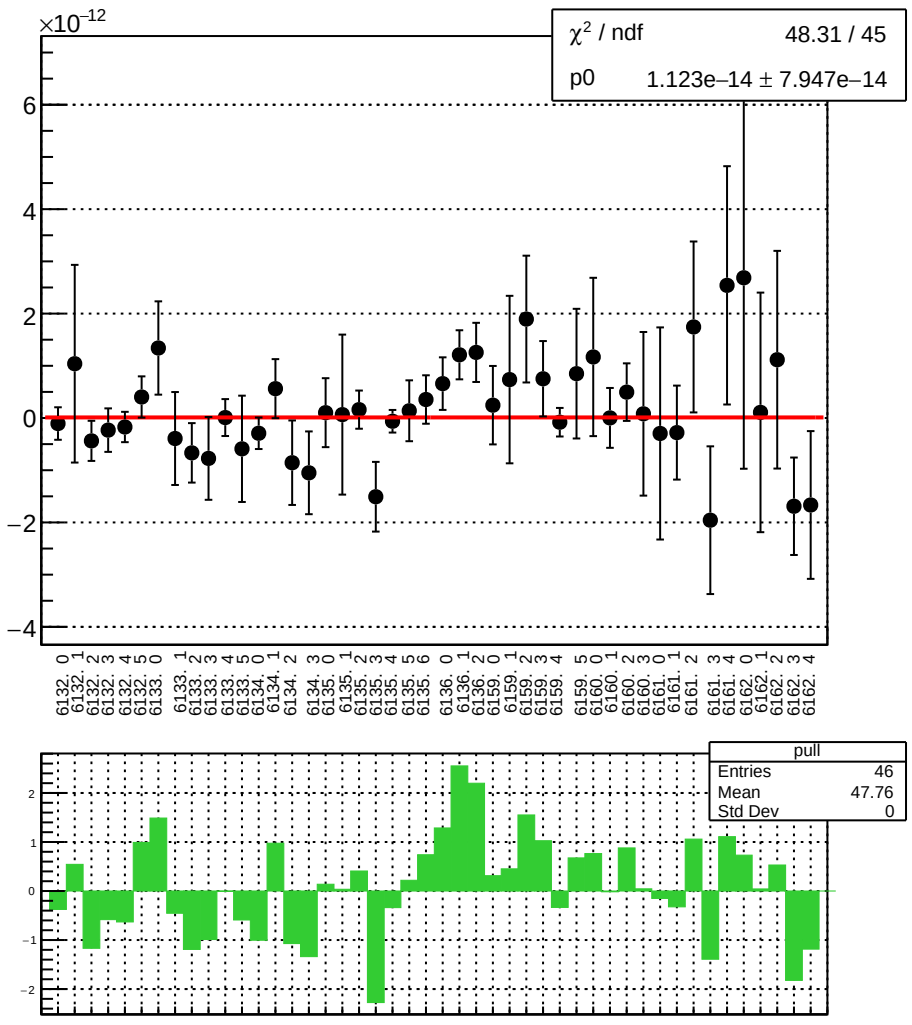

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.675e+05 / 45
p0 0.002158 ± 2.675e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

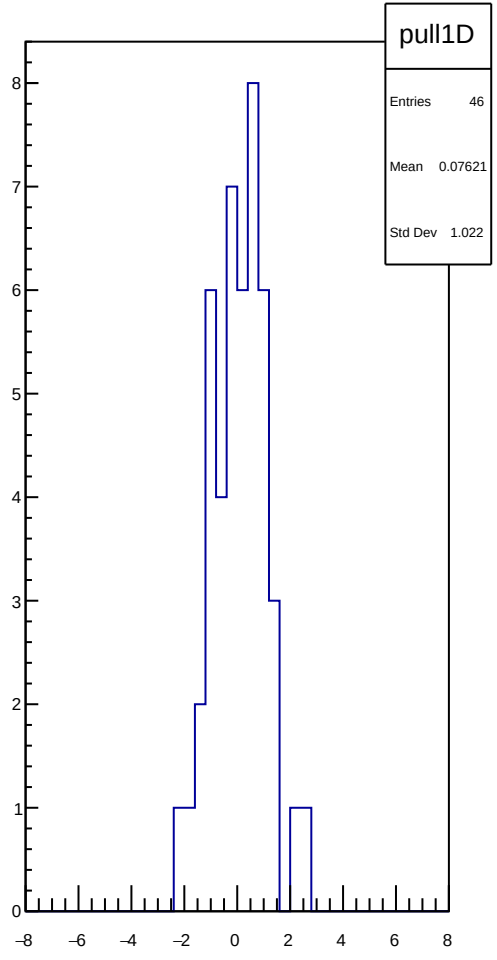

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 50.35 / 45
p0 −0.06456 ± 0.08257
pull
Entries 46
Mean 68.81
Std Dev 0
pull1D
Entries 46
Mean 0.07059
Std Dev 1.044

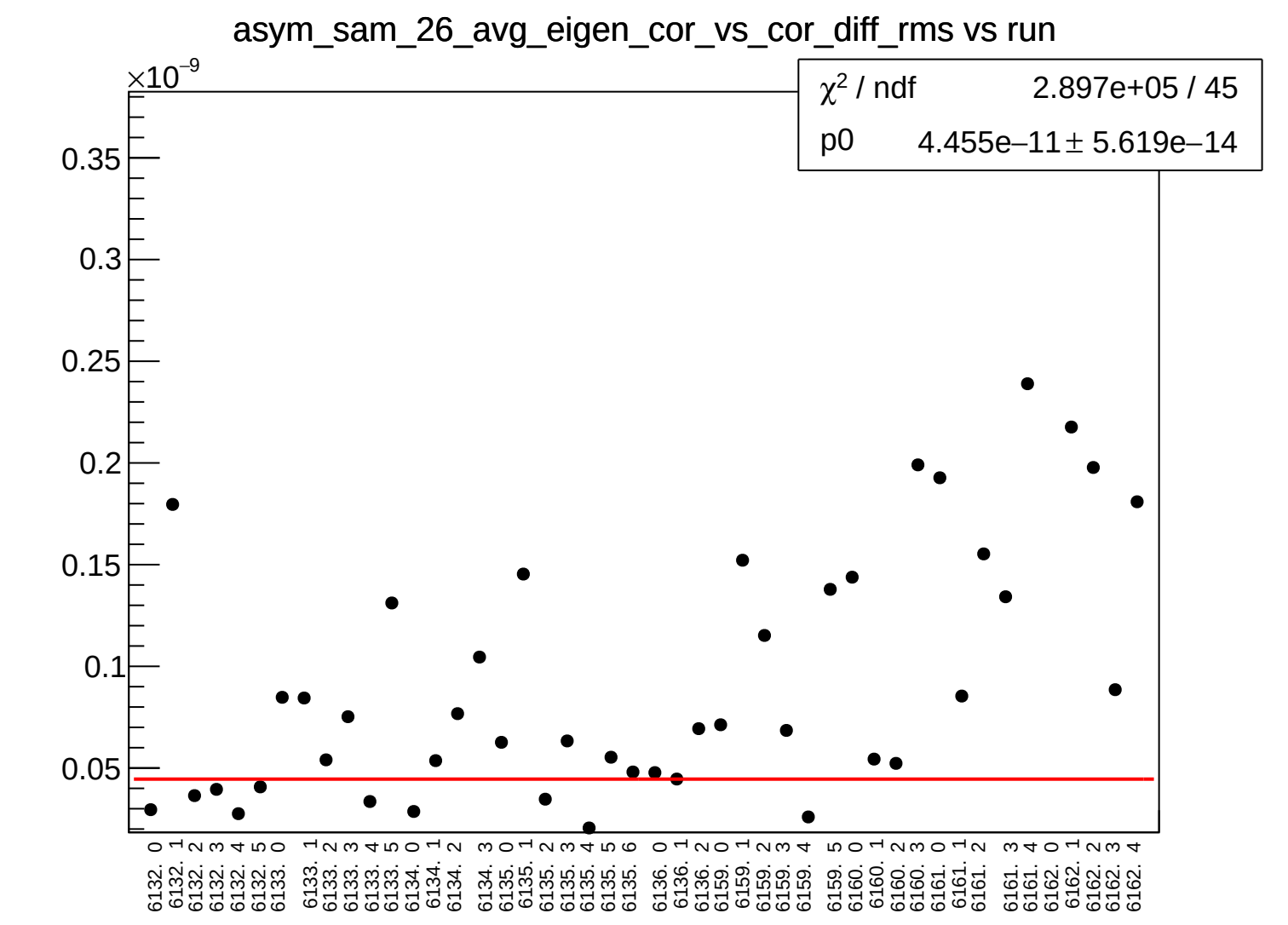

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.197e+04 / 45
p0 54.66 ± 0.05839
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

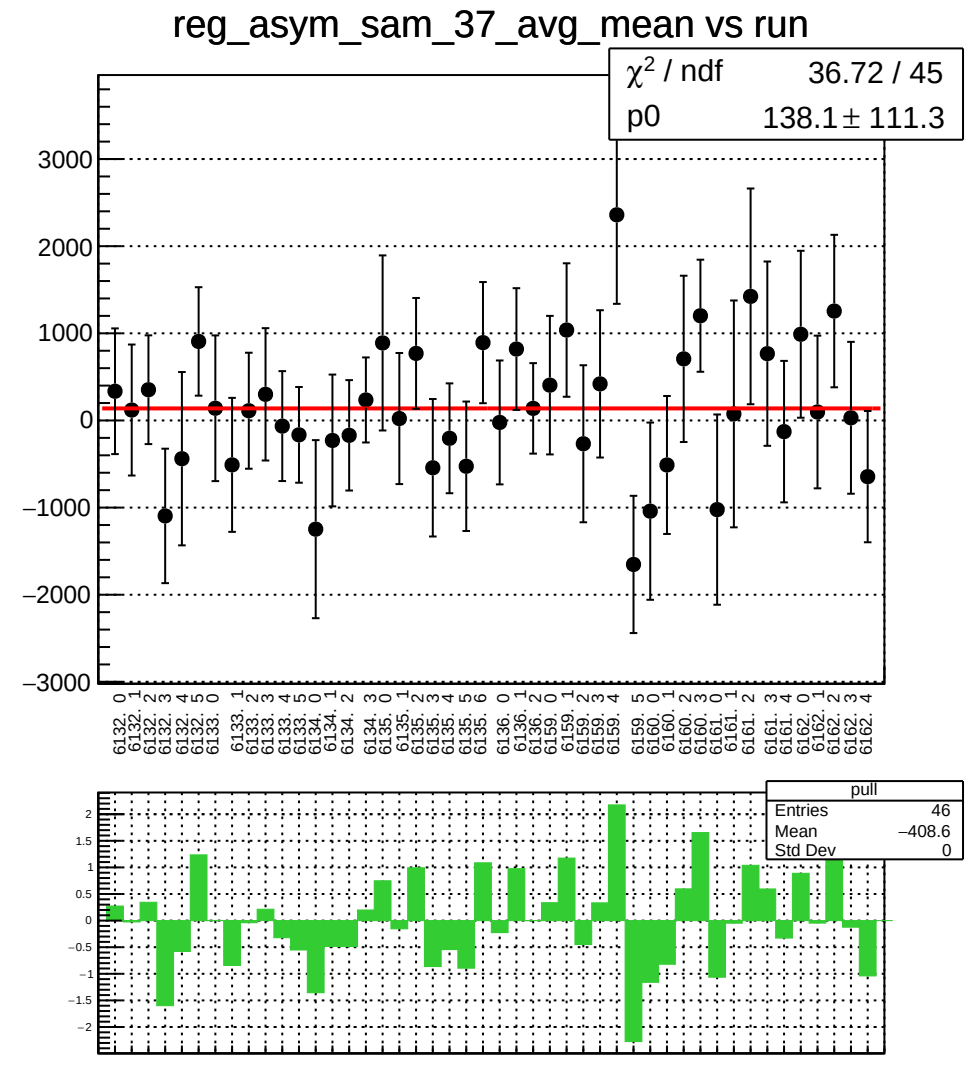

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.35 / 45
p0 −0.06456 ± 0.08257
pull
Entries 46
Mean 68.81
Std Dev 0
pull1D
Entries 46
Mean 0.07059
Std Dev 1.044

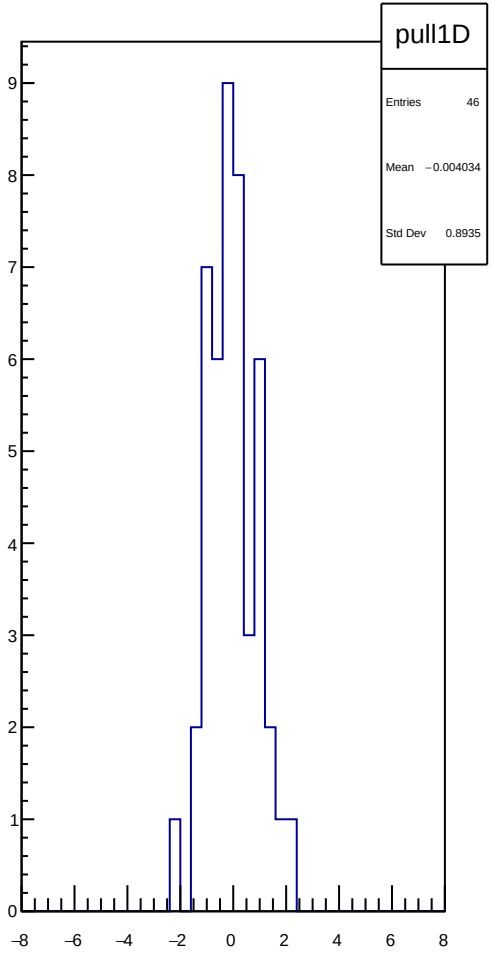

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.197e+04 / 45
p0 54.66 ± 0.05839
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

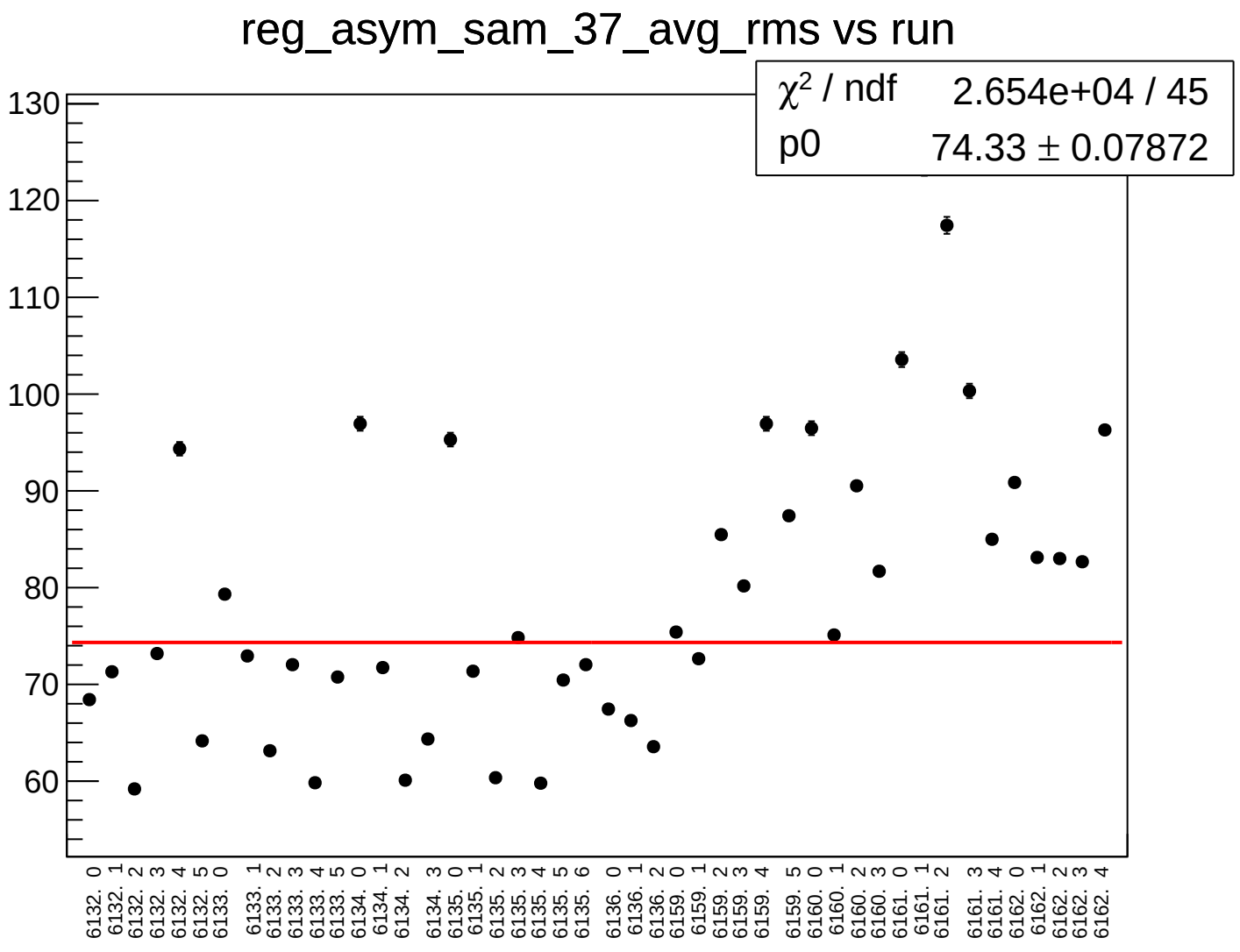

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 48.31 / 45
p0 1.123e−14 ± 7.947e−14
pull
Entries 46
Mean 47.76
Std Dev 0

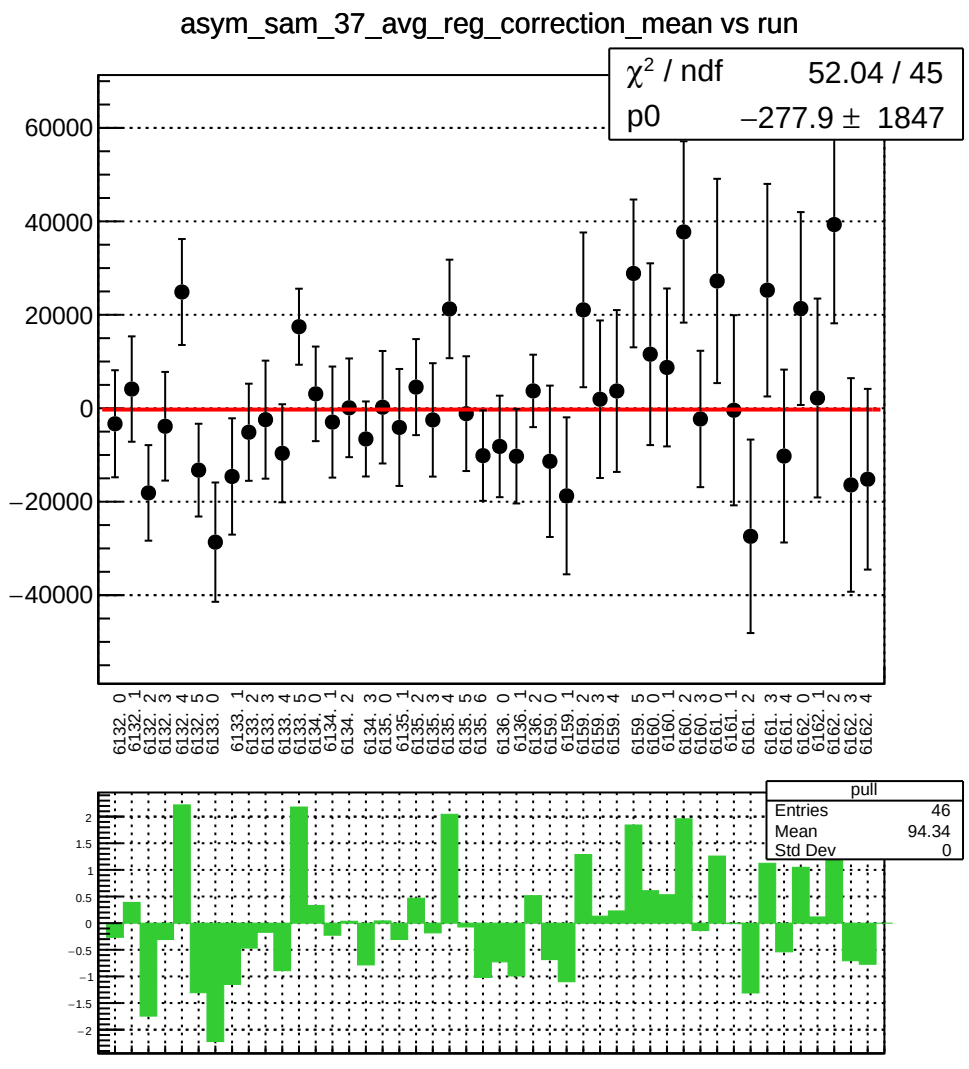

pull1D
Entries 46
Mean 0.07621
Std Dev 1.022


asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.897e+05 / 45
p0 4.455e−11 ± 5.619e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_sam_37_avg_mean vs run
χ² / ndf 36.72 / 45
p0 138.1 ± 111.3
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −408.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean −0.004034
Std Dev 0.8935
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_37_avg_rms vs run
χ² / ndf 2.654e+04 / 45
p0 74.33 ± 0.07872
130
120
110
100
90
80
70
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 52.04 / 45
p0 −277.9 ± 1847
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
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6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
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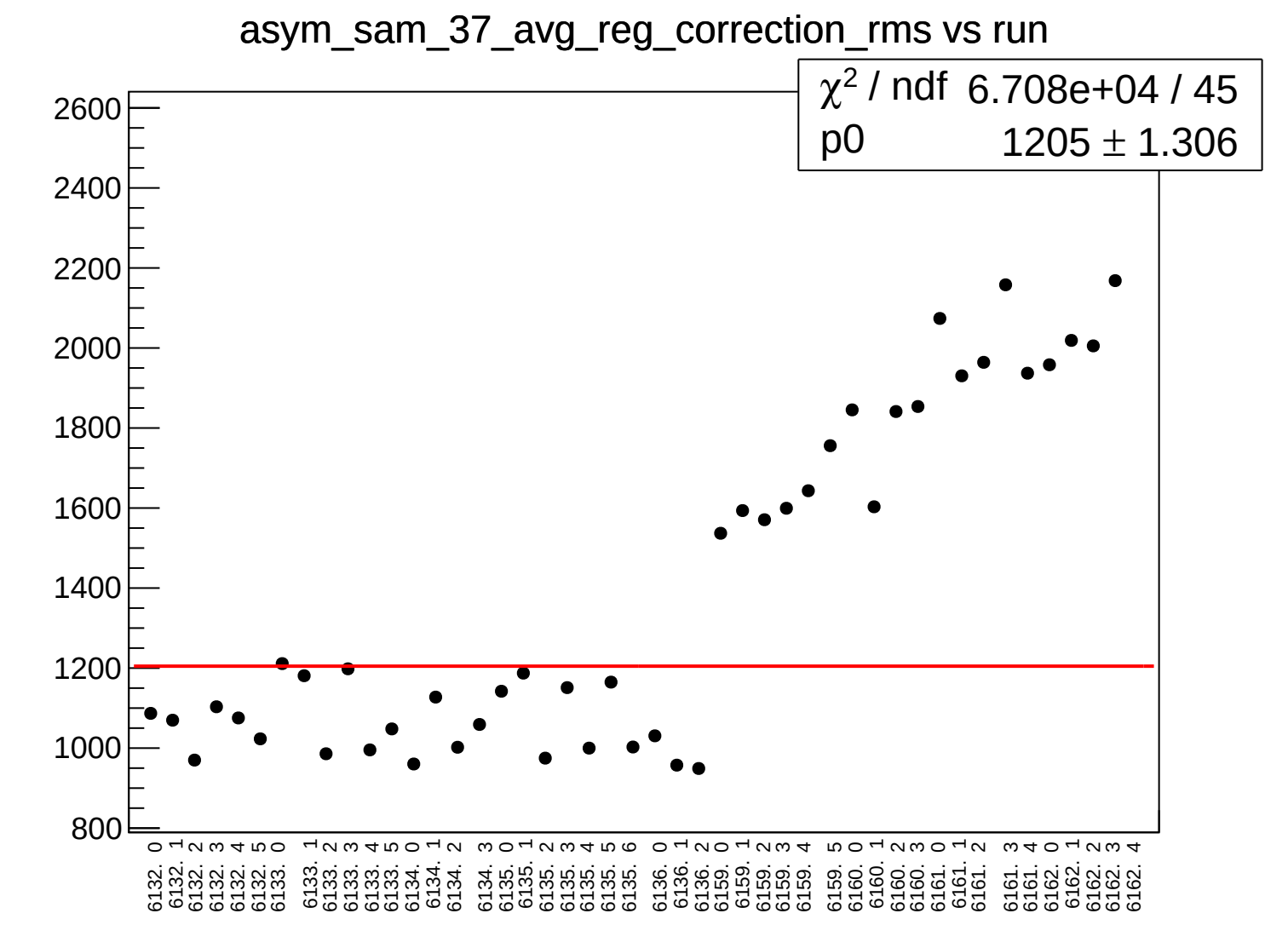
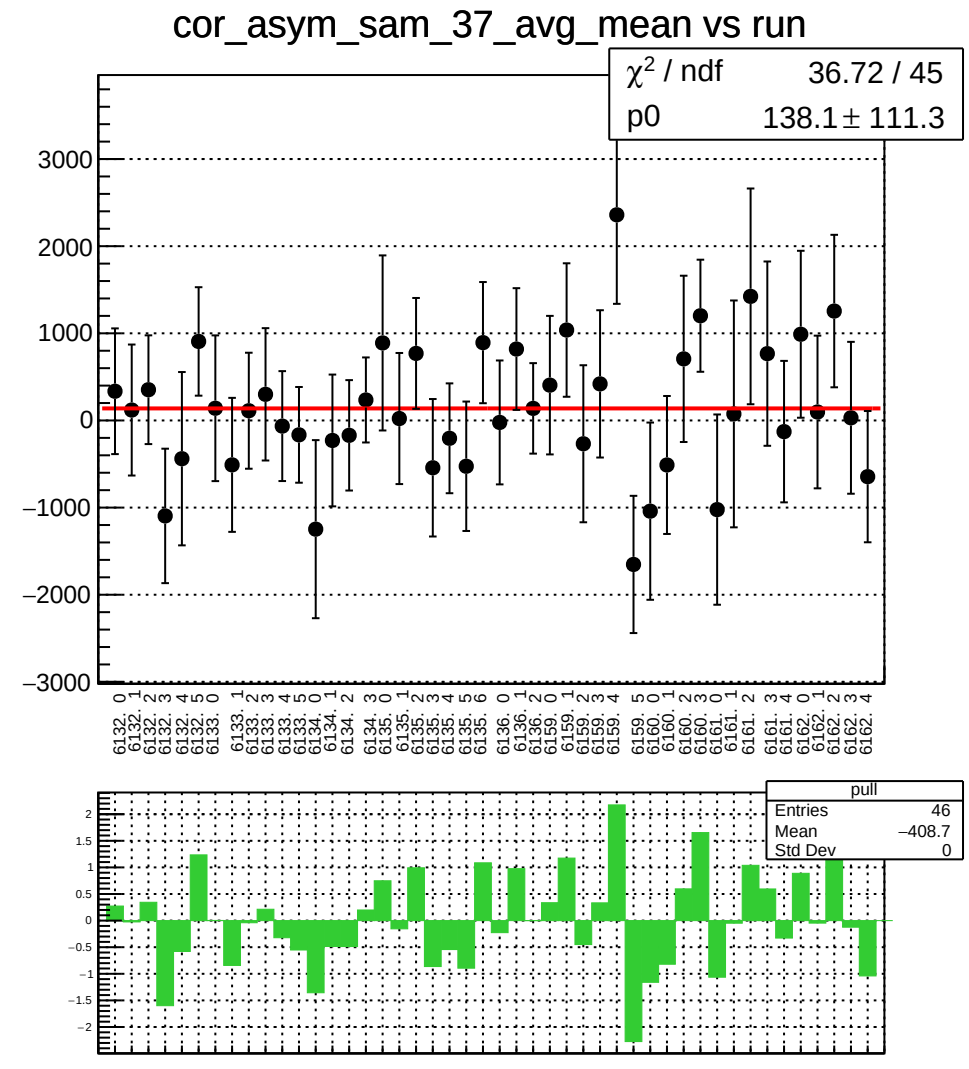
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 94.34
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.04672
Std Dev 1.063
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 6.708e+04 / 45
p0 1205 ± 1.306
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_sam_37_avg_mean vs run
χ² / ndf 36.72 / 45
p0 138.1 ± 111.3
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
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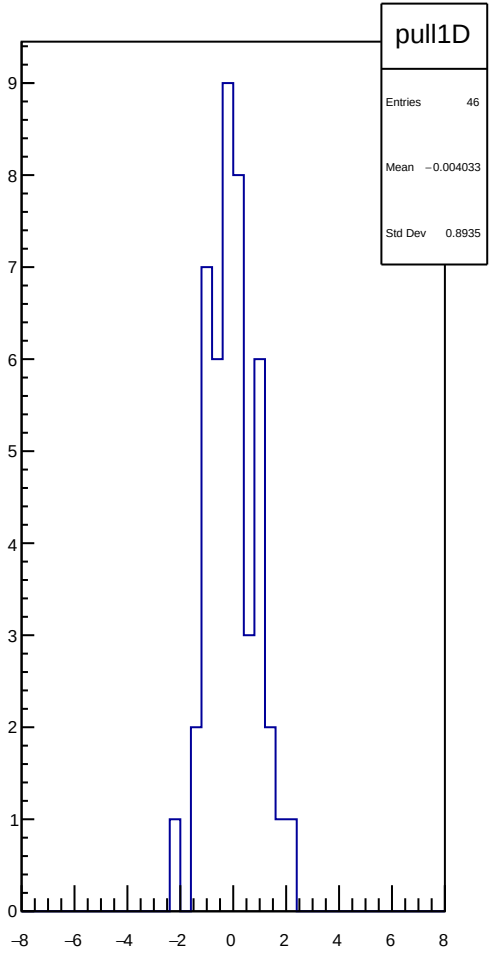
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −408.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean −0.004033
Std Dev 0.8935
9
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3
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−6
−4
−2
0
2
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6
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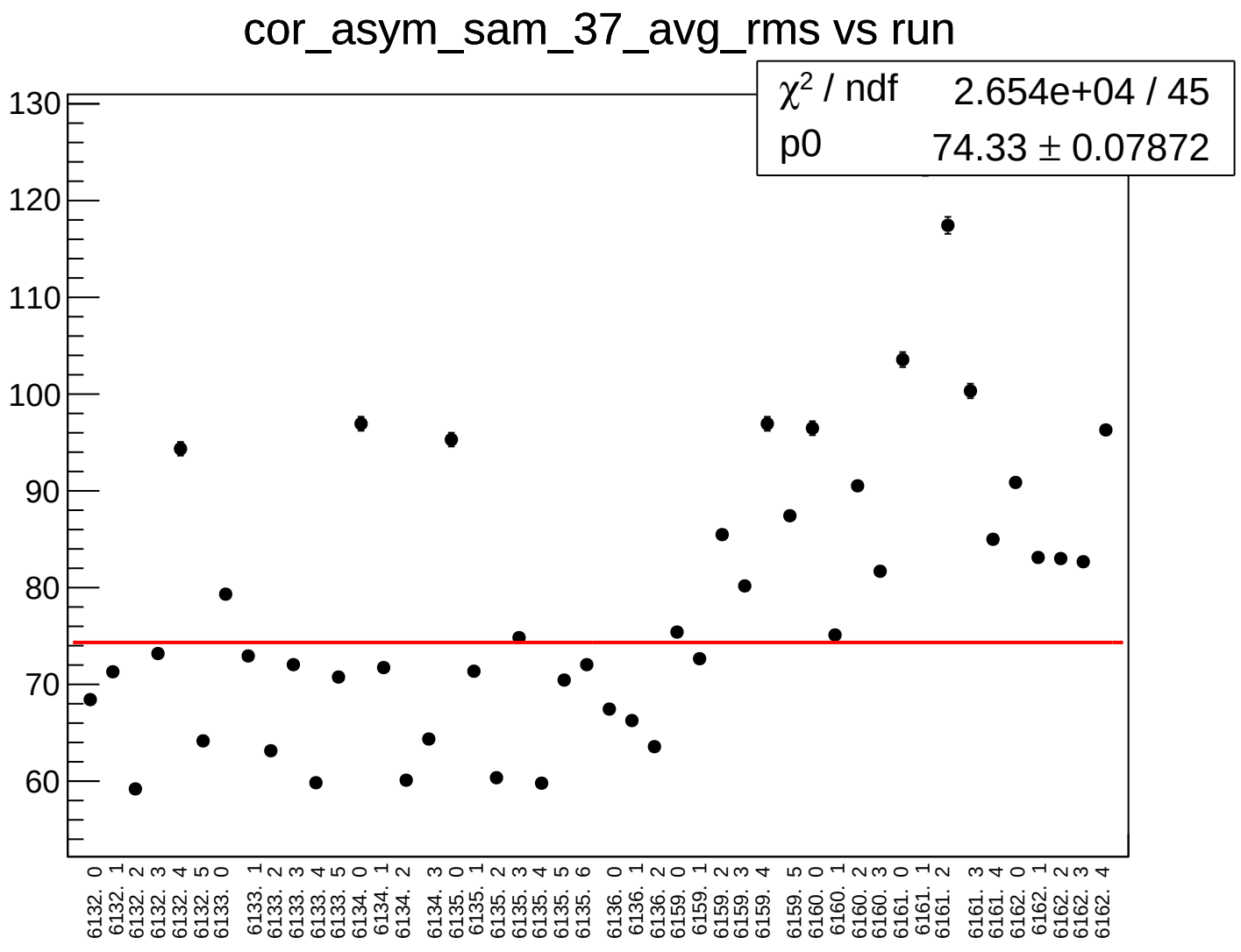
cor_asym_sam_37_avg_rms vs run
χ² / ndf 2.654e+04 / 45
p0 74.33 ± 0.07872
130
120
110
100
90
80
70
60
6132. 0
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6132. 2
6132. 3
6132. 4
6132. 5
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6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
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6135. 6
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6136. 2
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6159. 2
6159. 3
6159. 4
6159. 5
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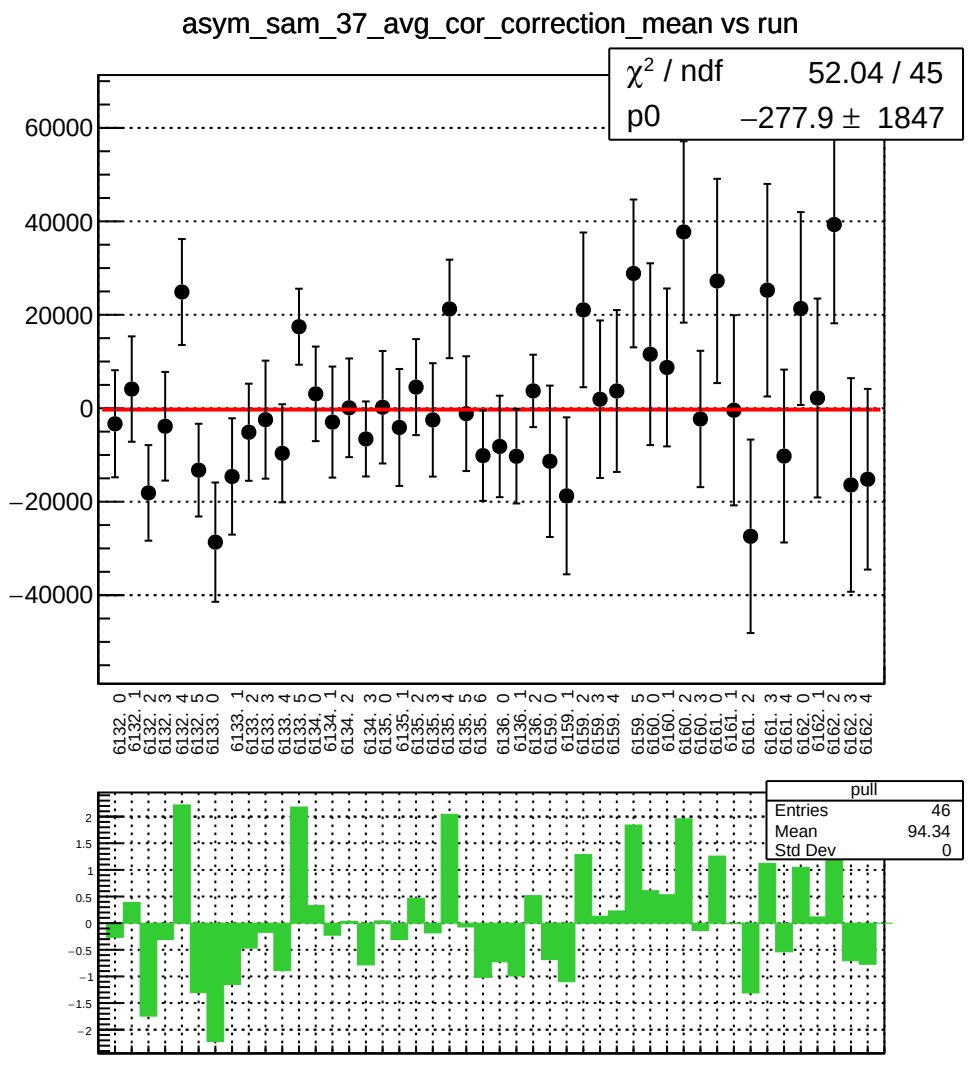
6162. 4


asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 52.04 / 45
p0 −277.9 ± 1847
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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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
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6136. 2
6159. 0
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6159. 2
6159. 3
6159. 4
6159. 5
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6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 94.34
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.04672
Std Dev 1.063
9
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7
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5
4
3
2
1
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−8
−6
−4
−2
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2
4
6
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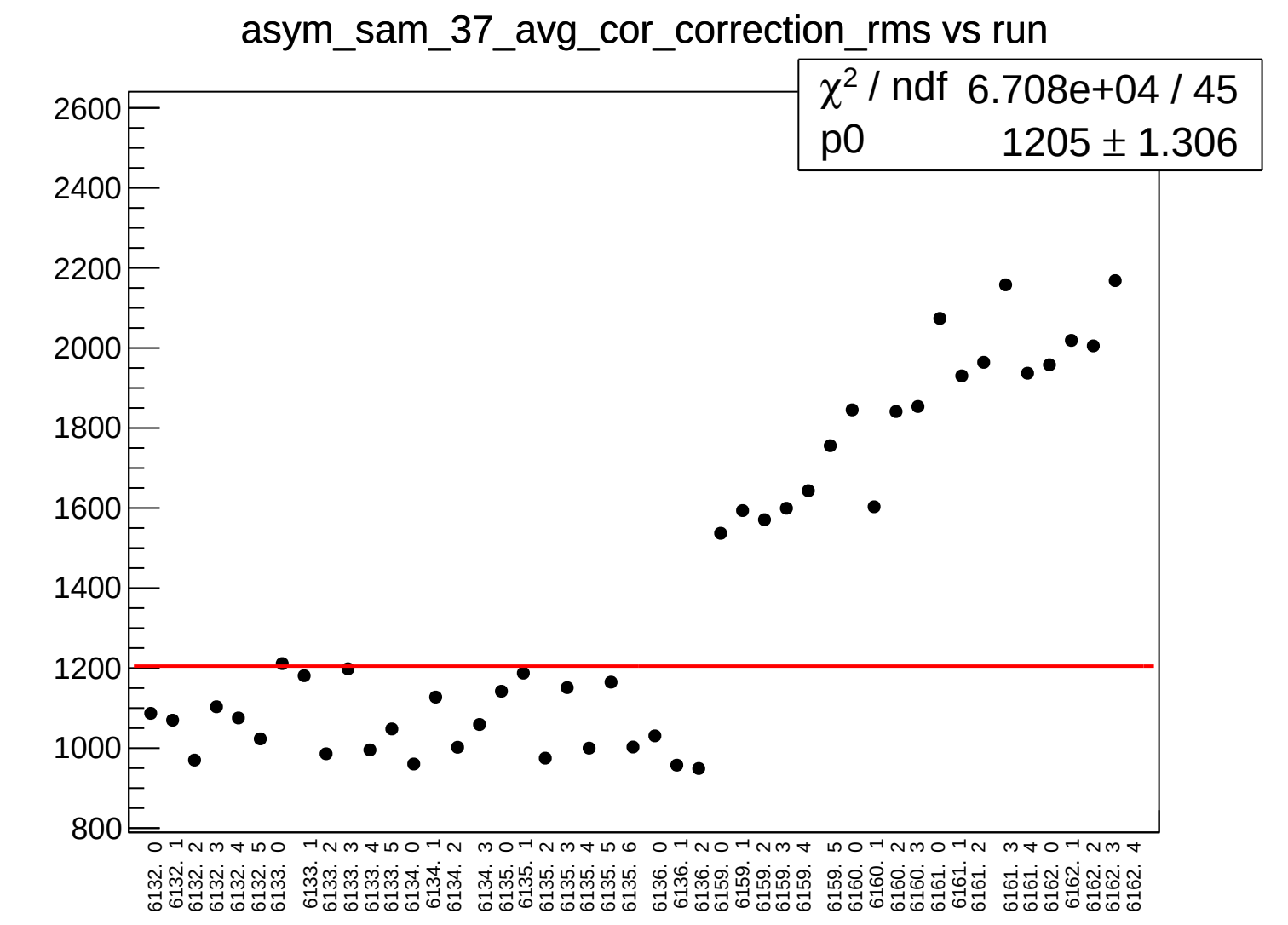
asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 6.708e+04 / 45
p0 1205 ± 1.306
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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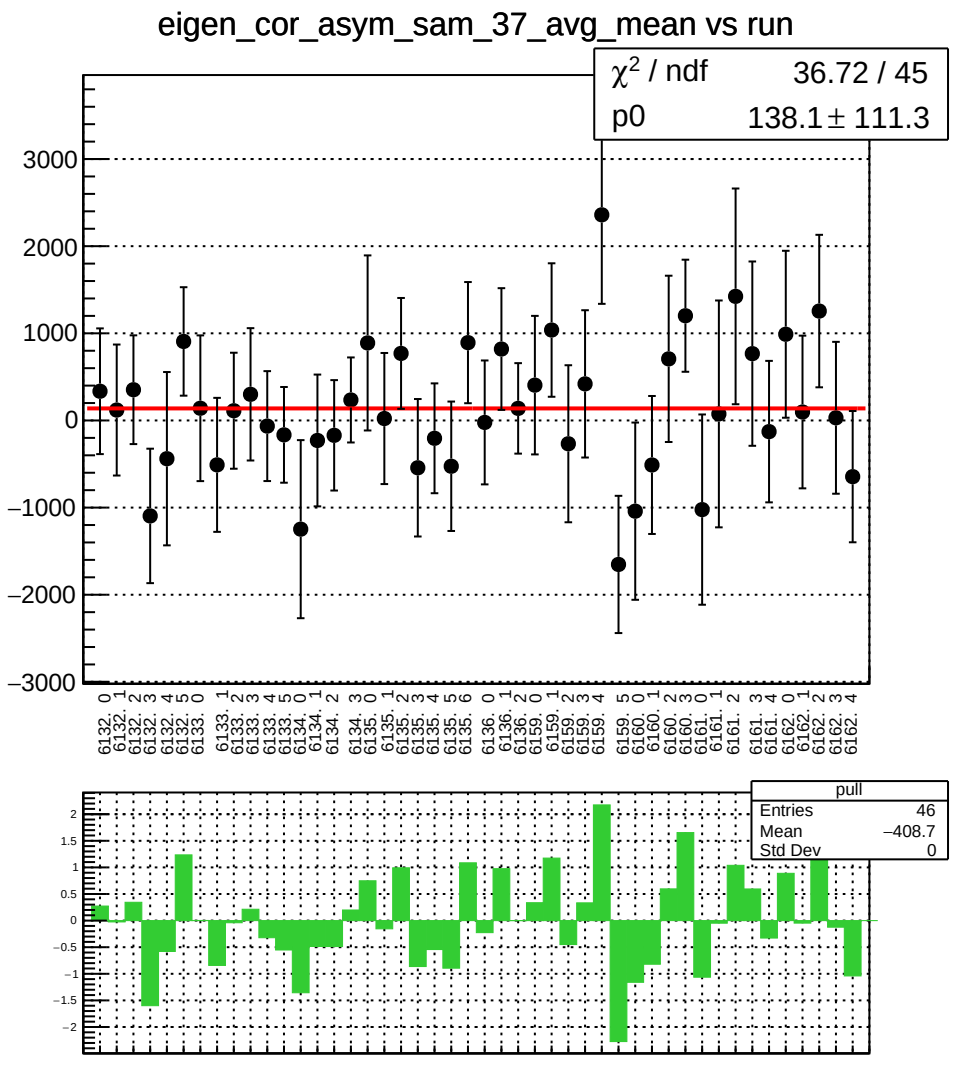
eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 36.72 / 45
p0 138.1 ± 111.3
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6134. 3
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6135. 2
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6135. 6
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6136. 1
6136. 2
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6160. 2
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6161. 0
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6161. 3
6161. 4
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6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −408.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.004033
Std Dev 0.8935
9
8
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6
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1
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−6
−4
−2
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2
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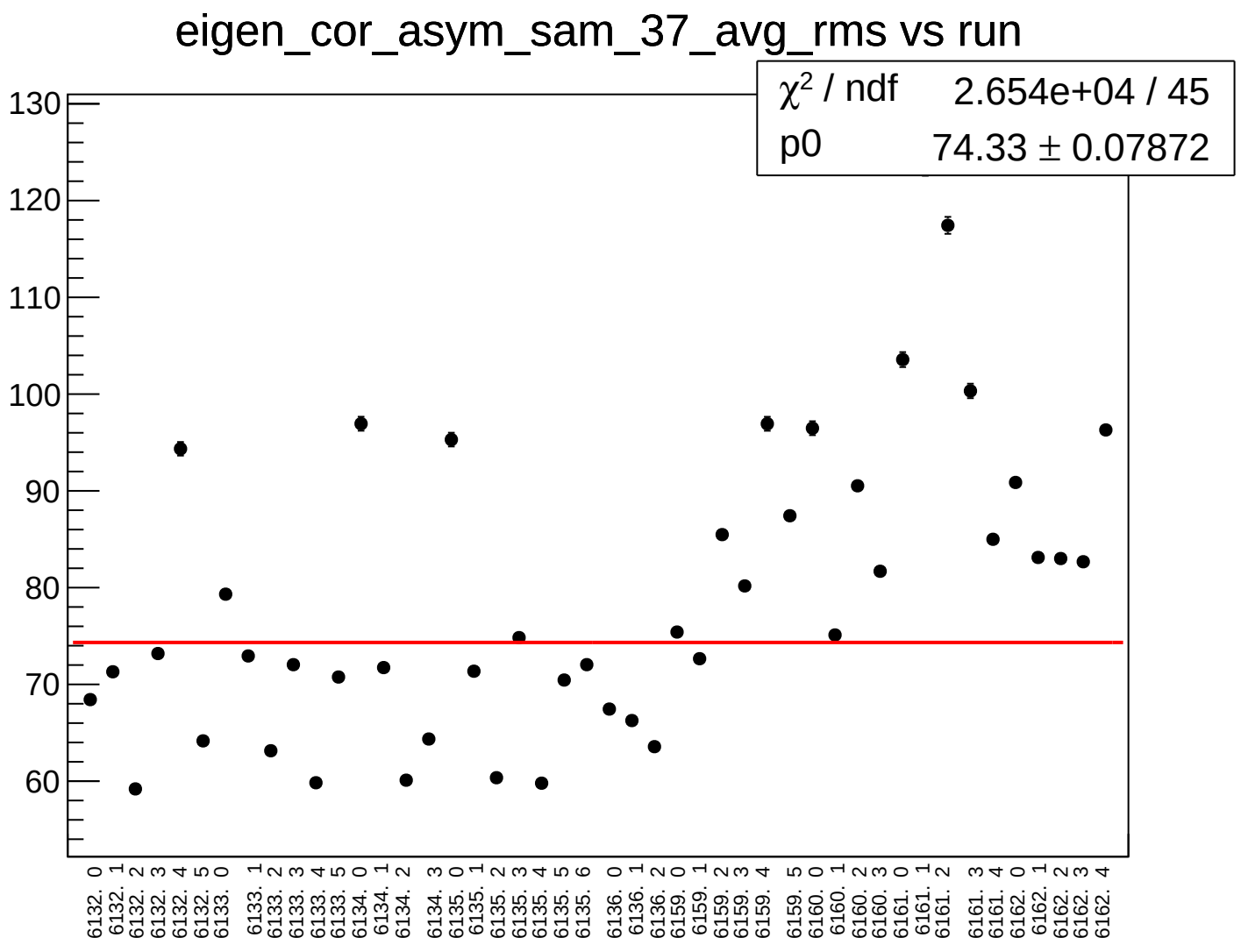
6
8


eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 2.654e+04 / 45
p0 74.33 ± 0.07872
130
120
110
100
90
80
70
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6132. 0
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6132. 2
6132. 3
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6132. 5
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6133. 5
6134. 0
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6134. 3
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6136. 0
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6136. 2
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6160. 1
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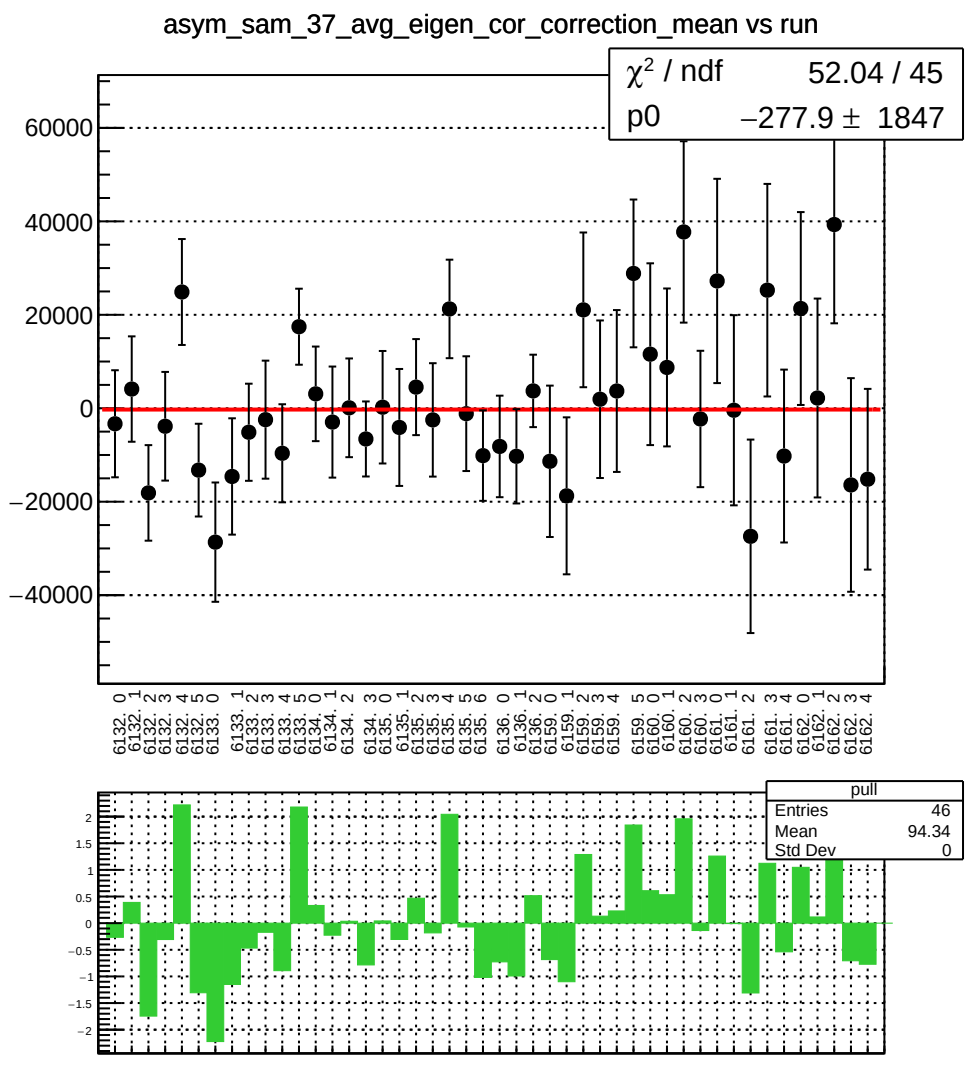
6162. 4


asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 52.04 / 45
p0 −277.9 ± 1847
60000
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6132. 0
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6135. 6
6136. 0
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6136. 2
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6159. 1
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6159. 5
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6161. 0
6161. 1
6161. 2
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6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 94.34
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.04672
Std Dev 1.063
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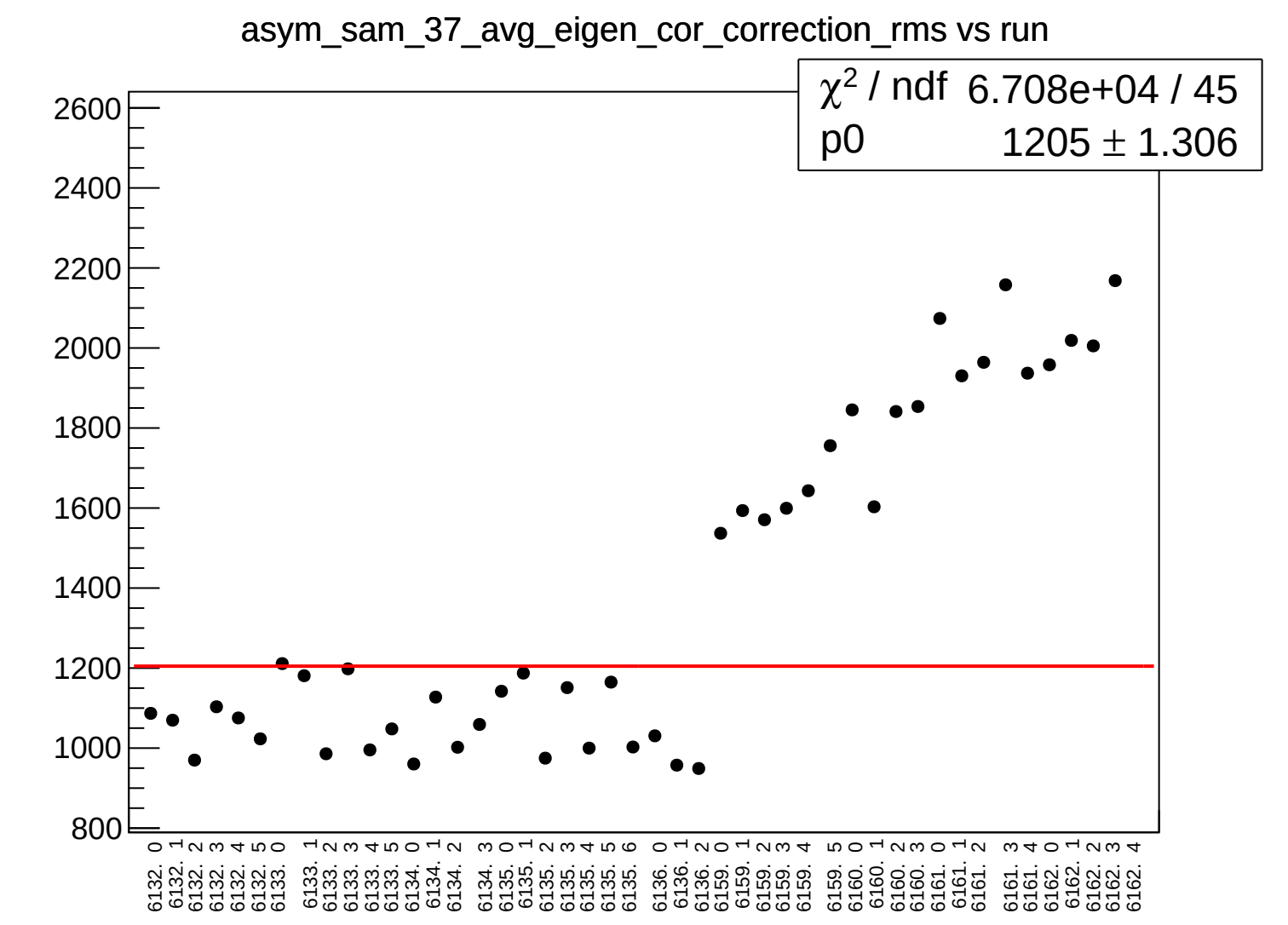
asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.708e+04 / 45
p0 1205 ± 1.306
2600
2400
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1800
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6132. 0
6132. 1
6132. 2
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6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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
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6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 3
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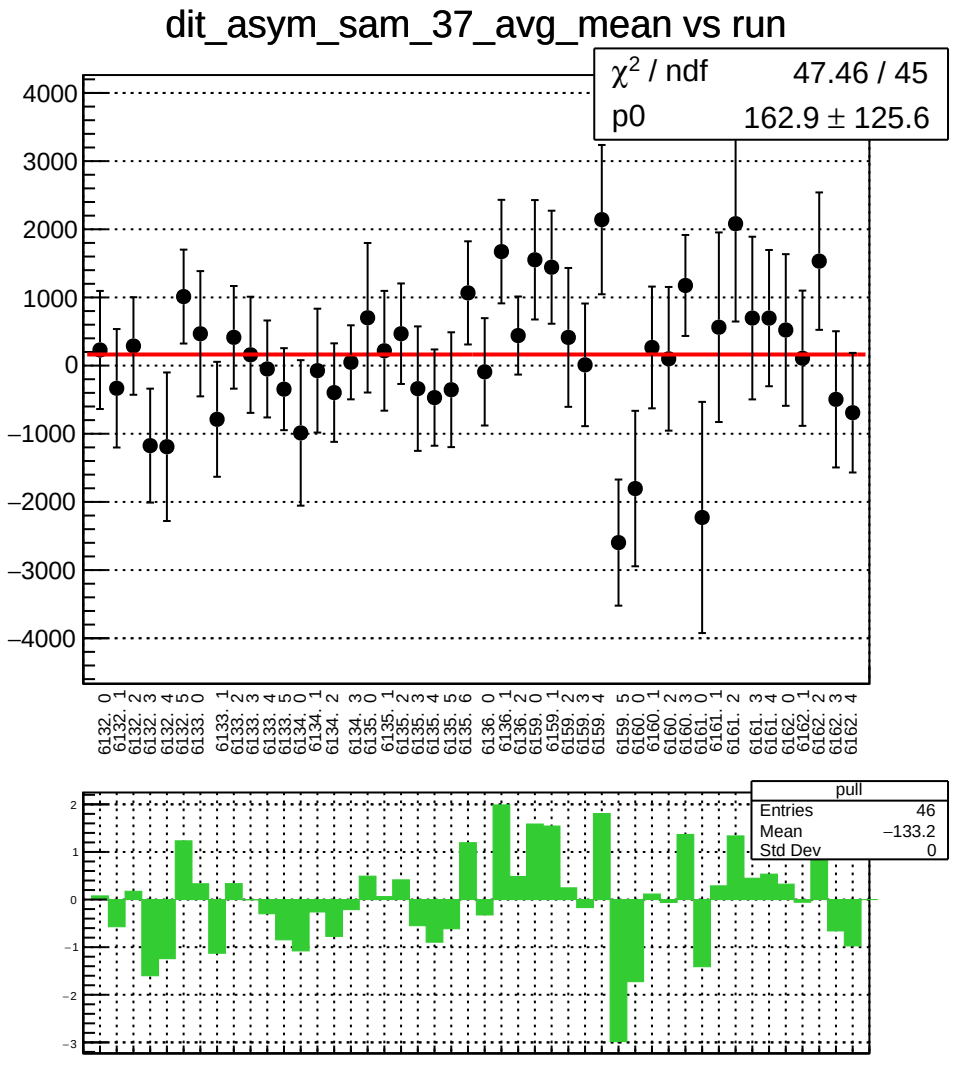
6162. 4


dit_asym_sam_37_avg_mean vs run
χ² / ndf 47.46 / 45
p0 162.9 ± 125.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
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6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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6135. 2
6135. 3
6135. 4
6135. 5
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6136. 2
6159. 0
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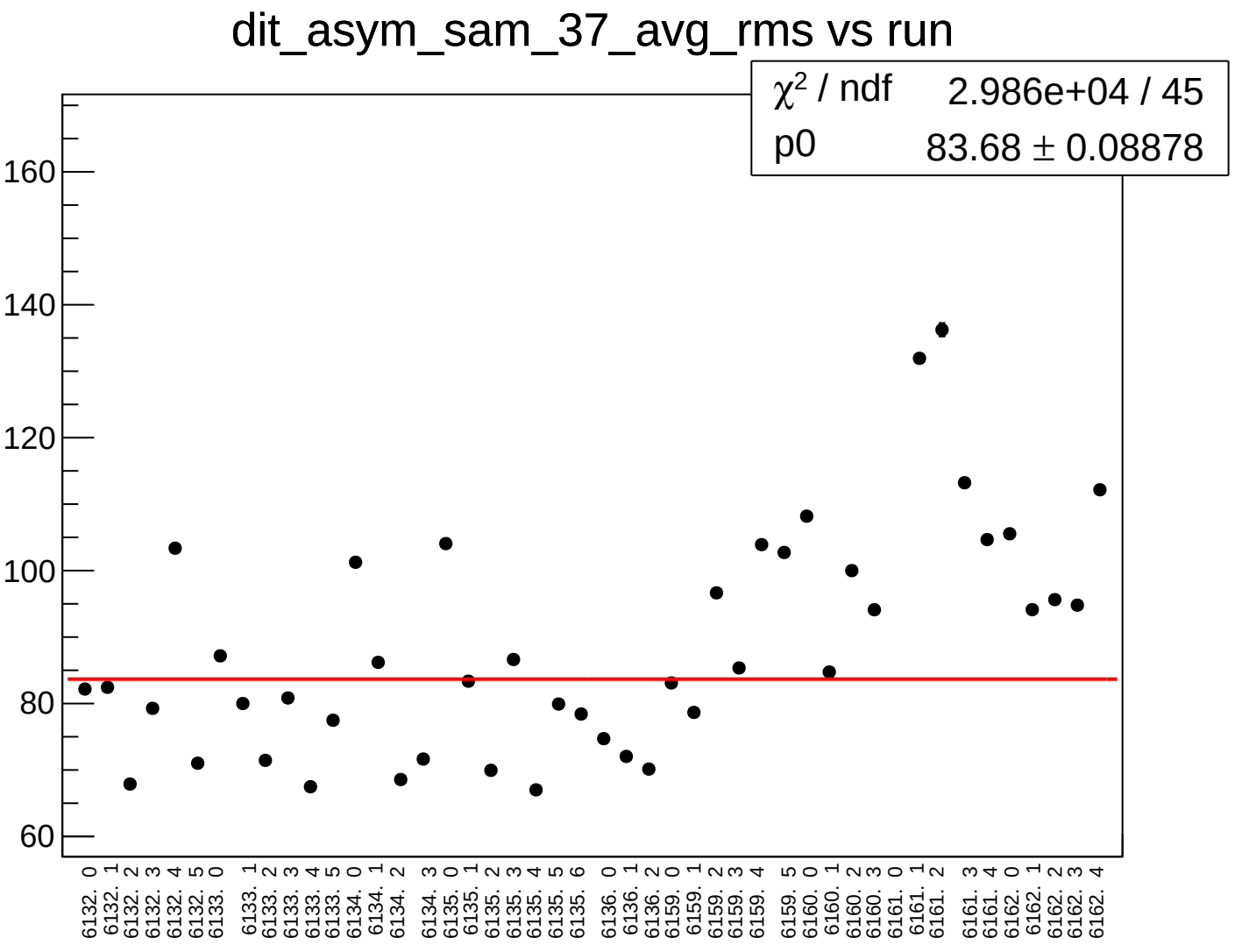
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −133.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.01486
Std Dev 1.016
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_37_avg_rms vs run
χ² / ndf 2.986e+04 / 45
p0 83.68 ± 0.08878
160
140
120
100
80
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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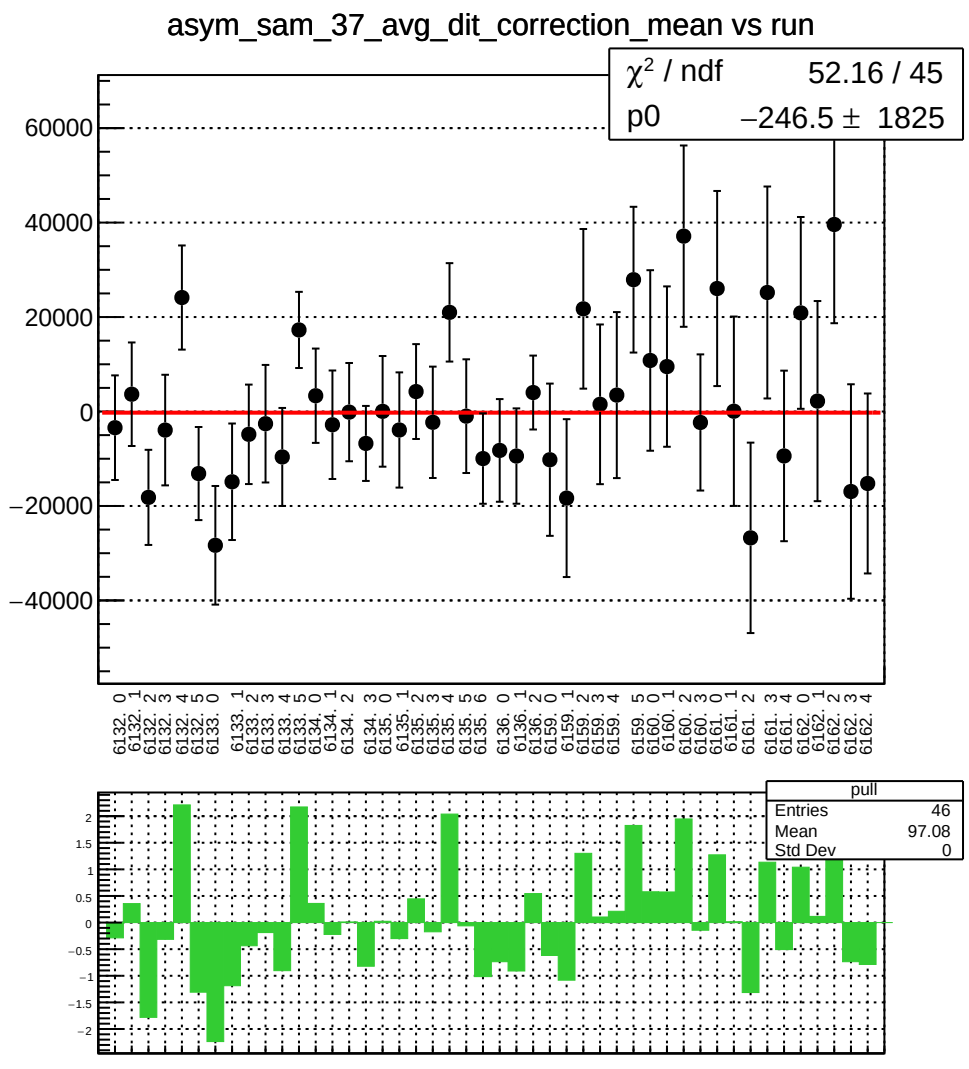
asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 52.16 / 45
p0 −246.5 ± 1825
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6159. 4
6159. 5
6160. 0
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6160. 2
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6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 97.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.0462
Std Dev 1.064
8
7
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5
4
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−4
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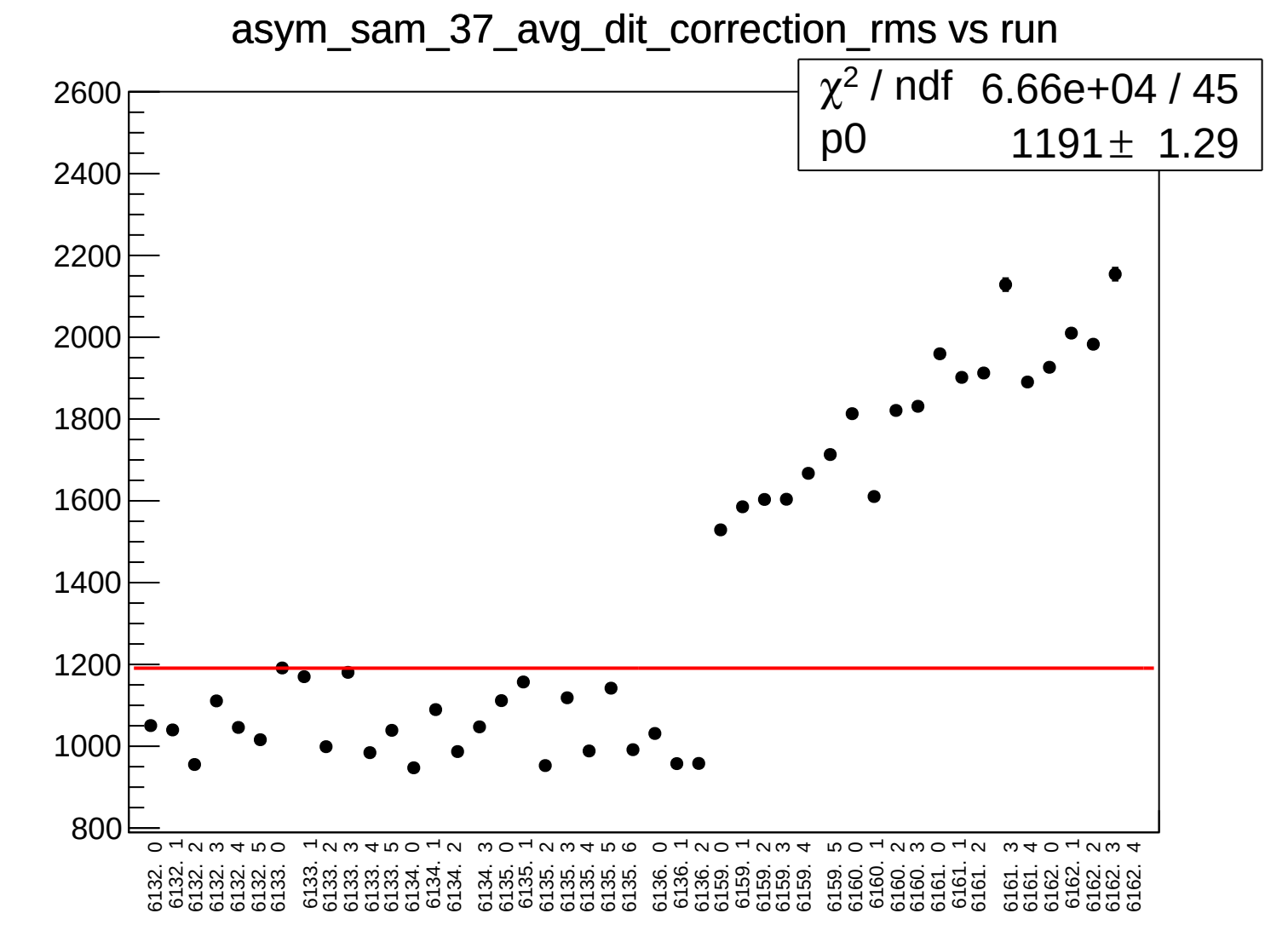
0
2
4
6
8


asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 6.66e+04 / 45
p0 1191 ± 1.29
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
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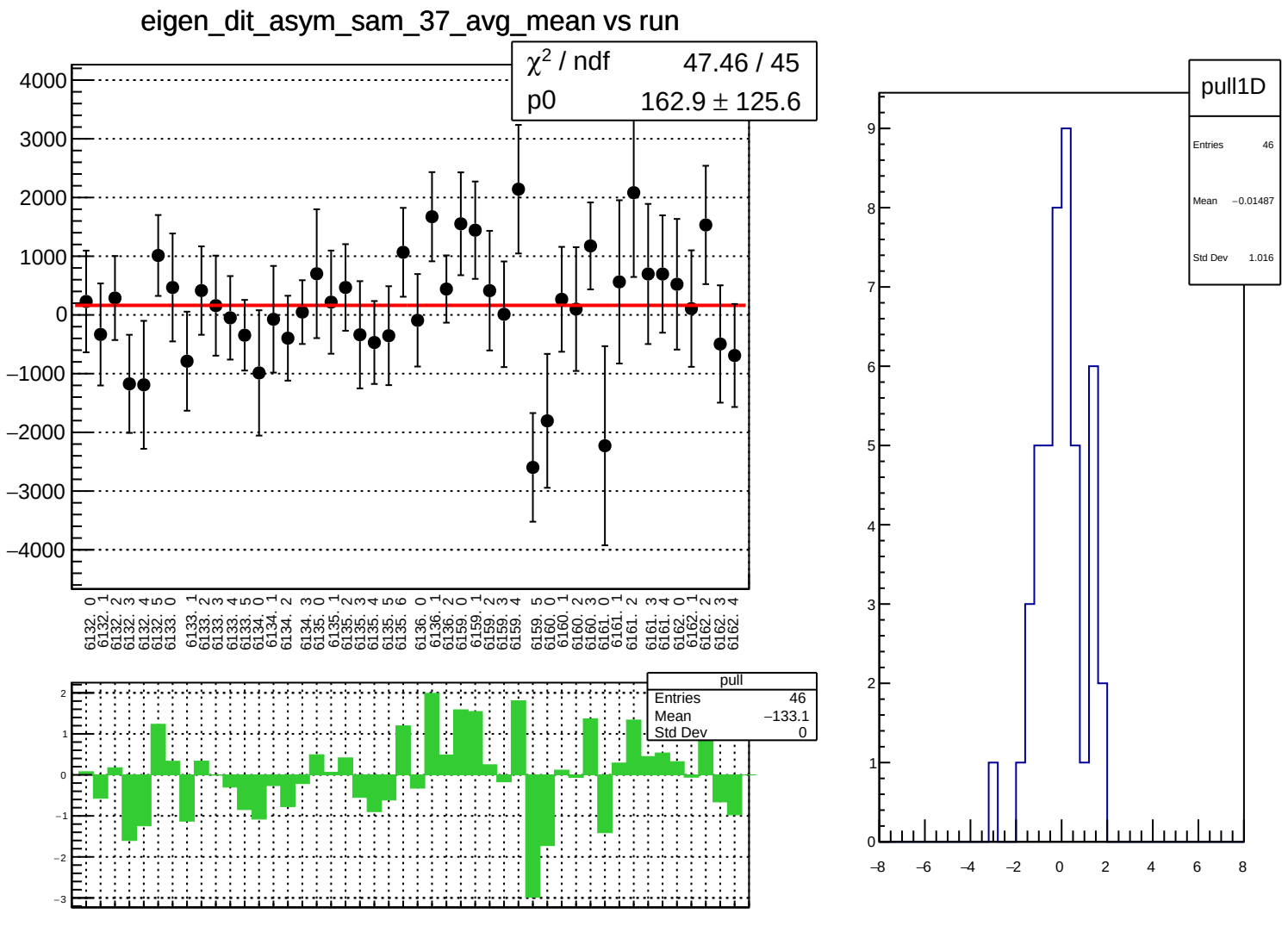
eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 47.46 / 45
p0 162.9 ± 125.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 2
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6133. 4
6133. 5
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6134. 1
6134. 2
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6135. 0
6135. 1
6135. 2
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6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
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6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
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6160. 1
6160. 2
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6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −133.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.01487
Std Dev 1.016
9
8
7
6
5
4
3
2
1
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−8
−6
−4
−2
0
2
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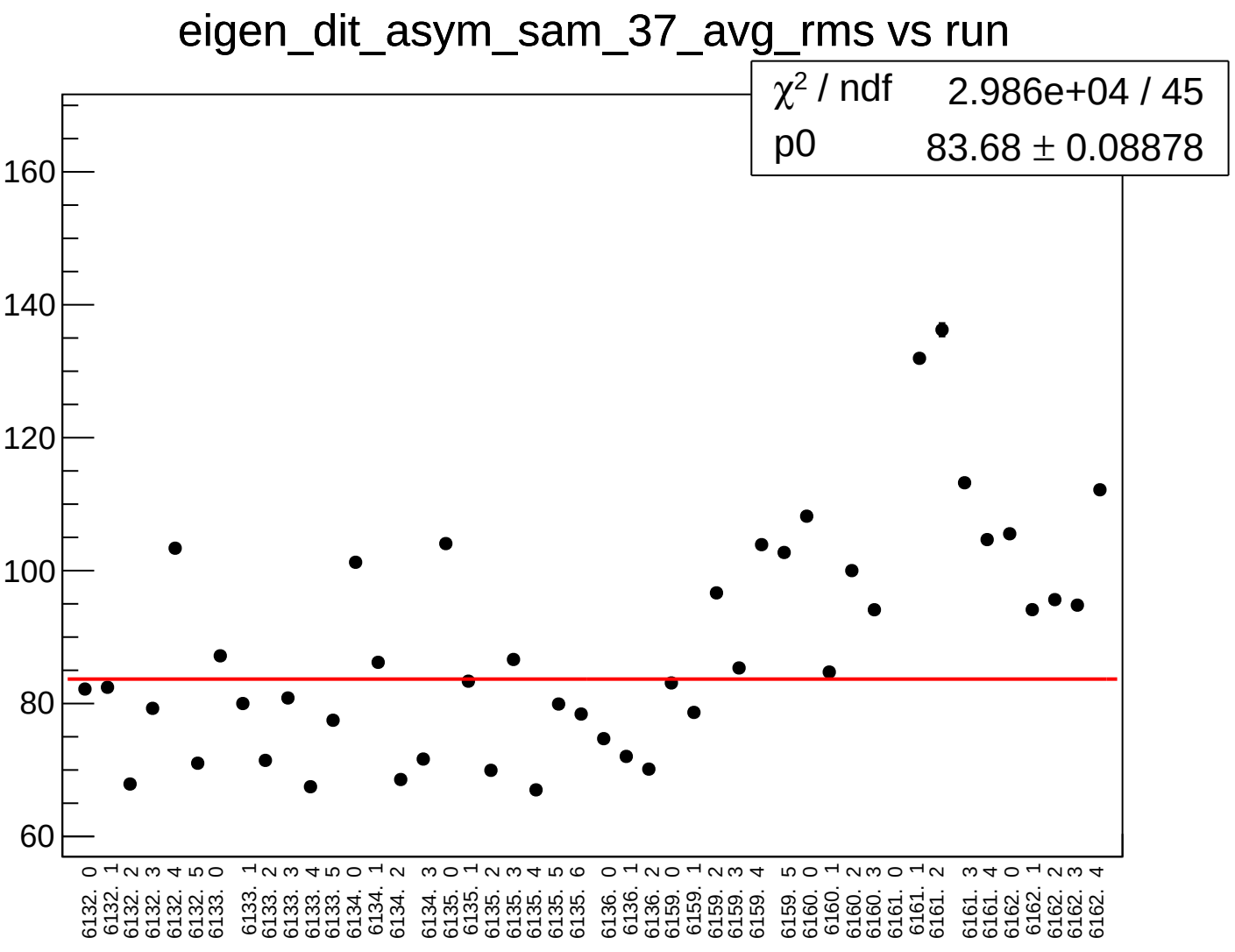
eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 2.986e+04 / 45
p0 83.68 ± 0.08878
160
140
120
100
80
60
6132. 0
6132. 1
6132. 2
6132. 3
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6132. 5
6133. 0
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6136. 0
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6160. 2
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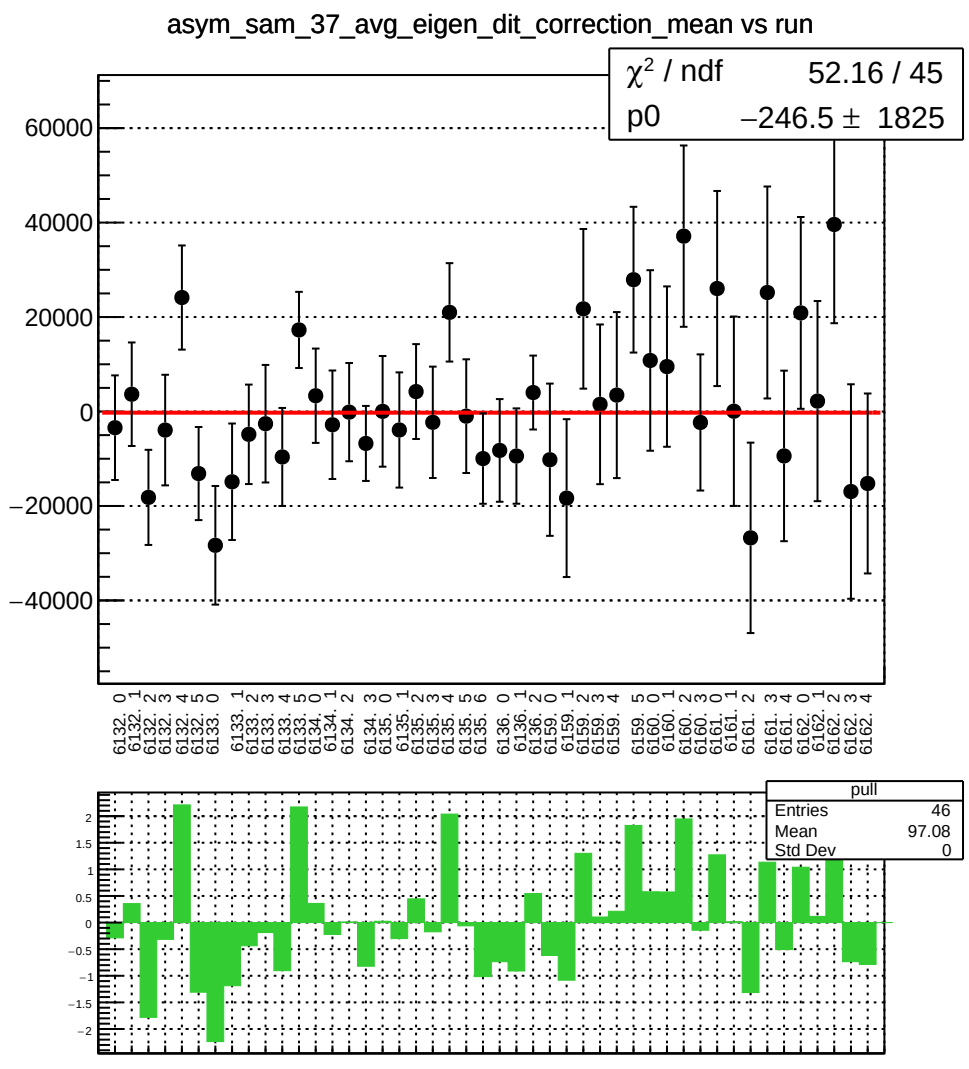
6162. 4


asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 52.16 / 45
p0 −246.5 ± 1825
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40000
20000
0
−20000
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6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
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6133. 3
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6134. 0
6134. 1
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6134. 3
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6135. 1
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6160. 1
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6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 97.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.0462
Std Dev 1.064
8
7
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5
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1
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−6
−4
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0
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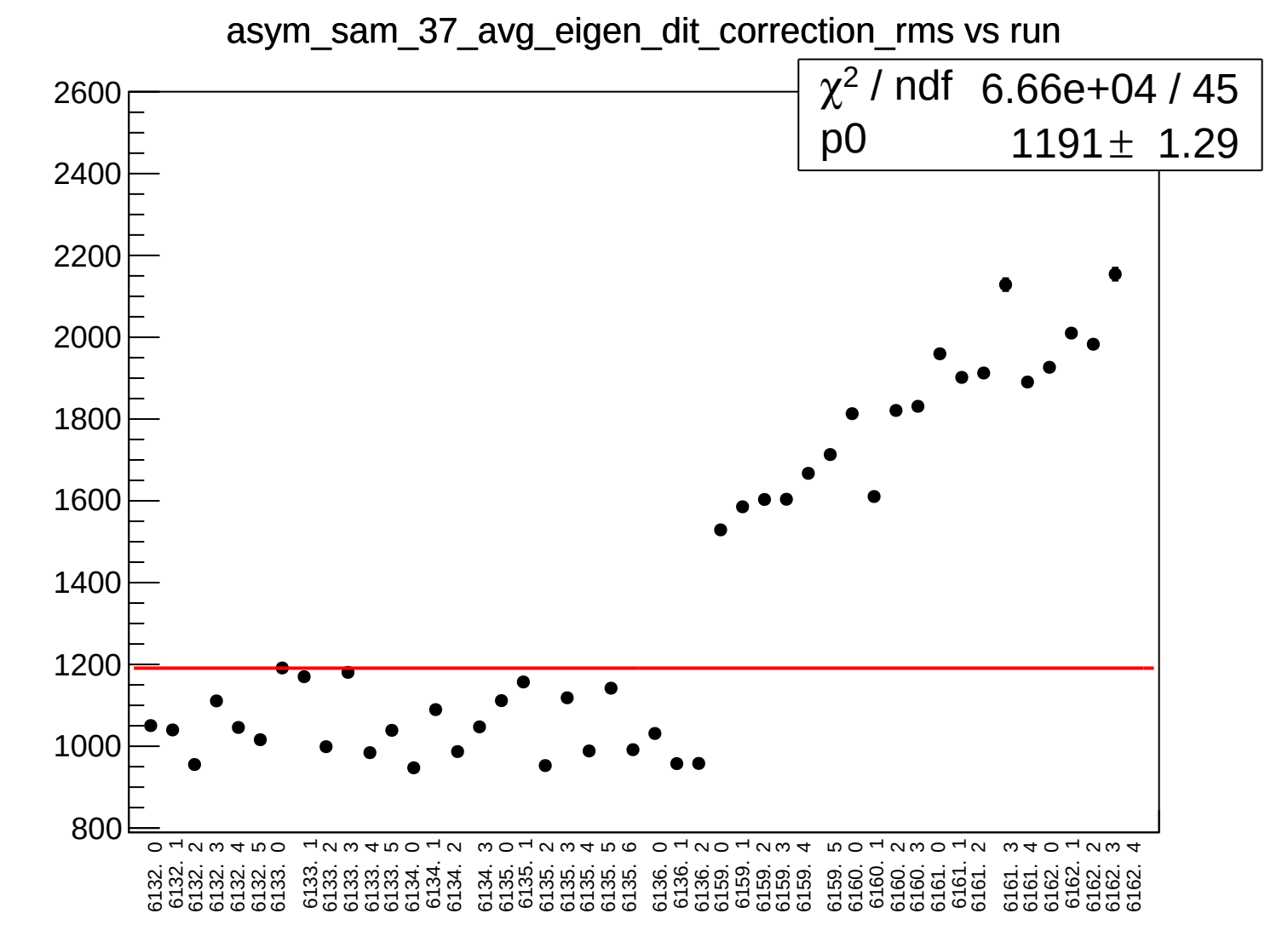
asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 6.66e+04 / 45
p0 1191 ± 1.29
2600
2400
2200
2000
1800
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6132. 0
6132. 1
6132. 2
6132. 3
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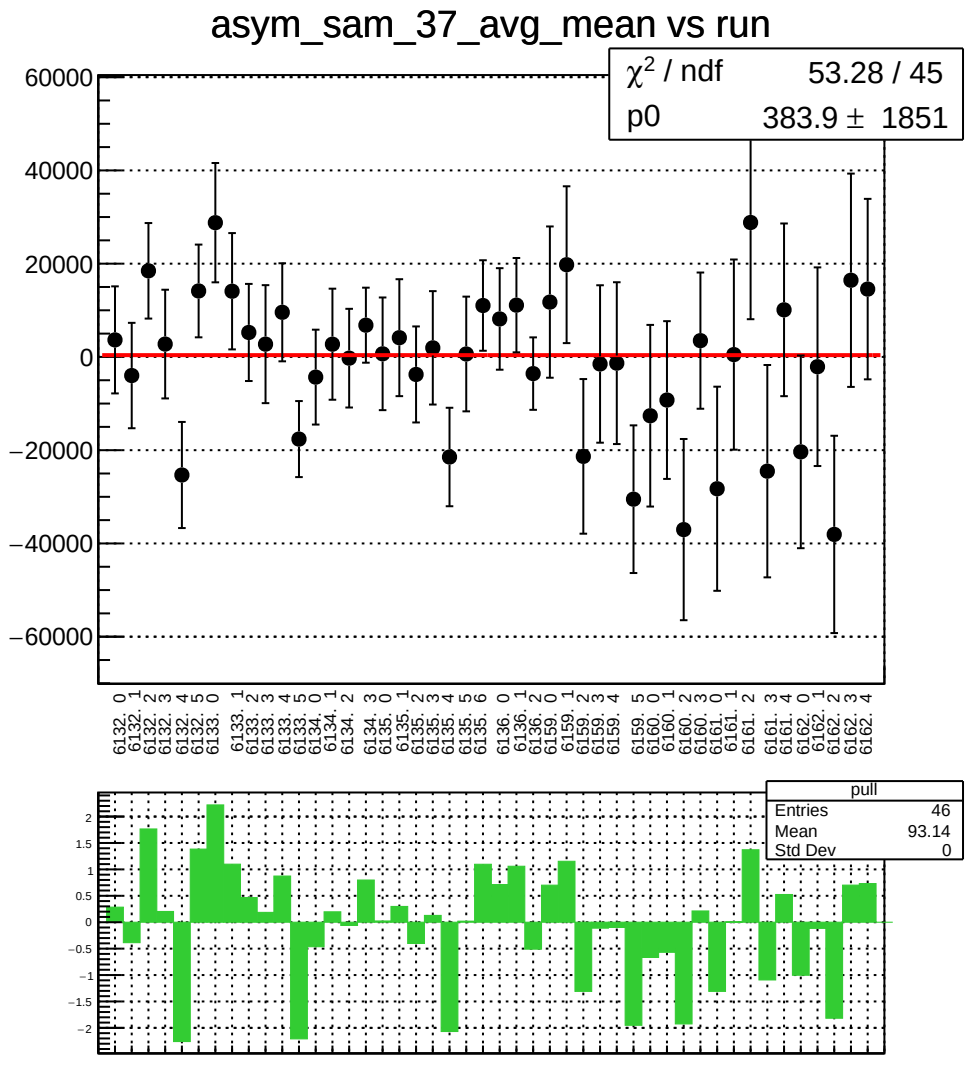
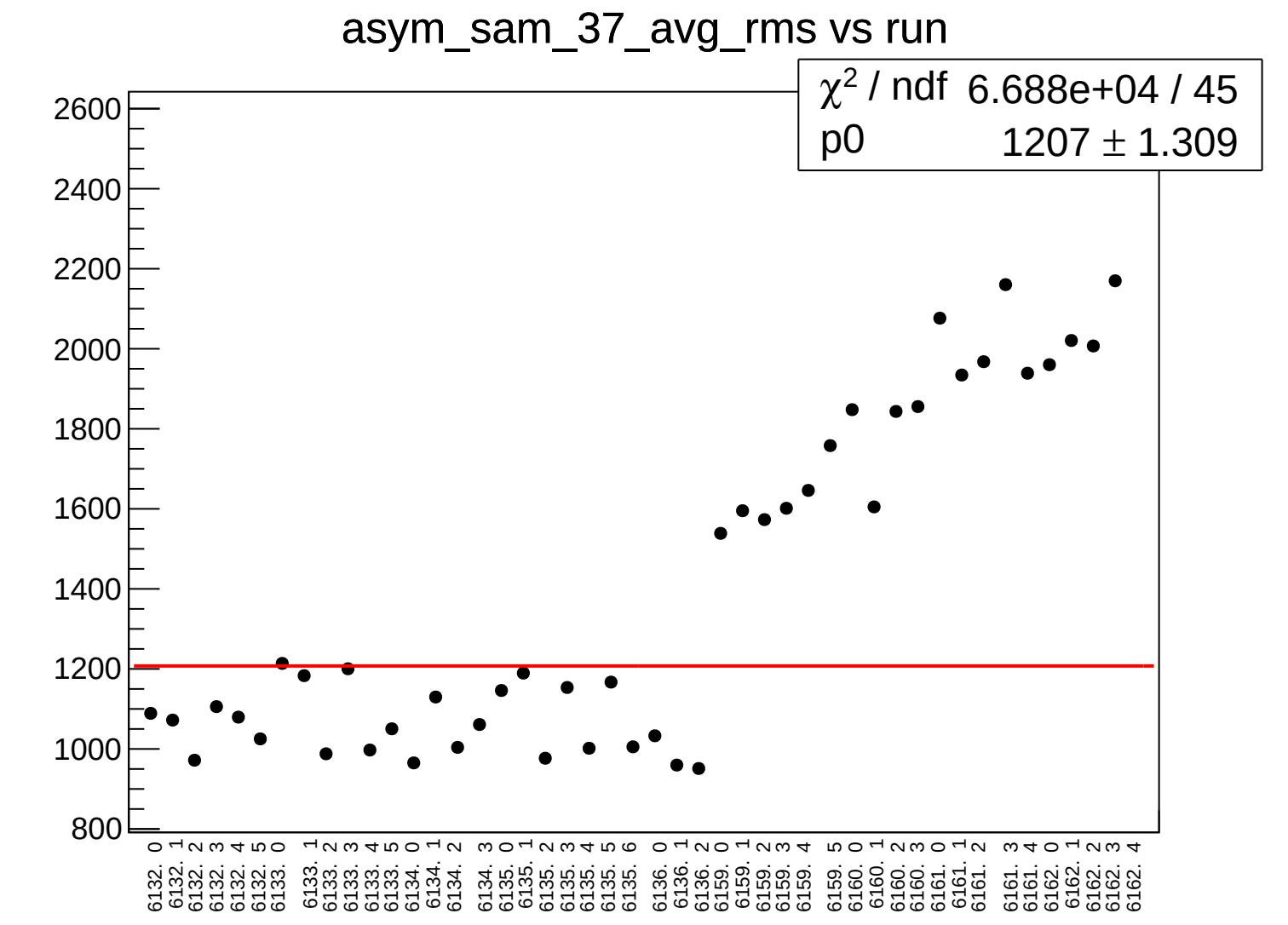
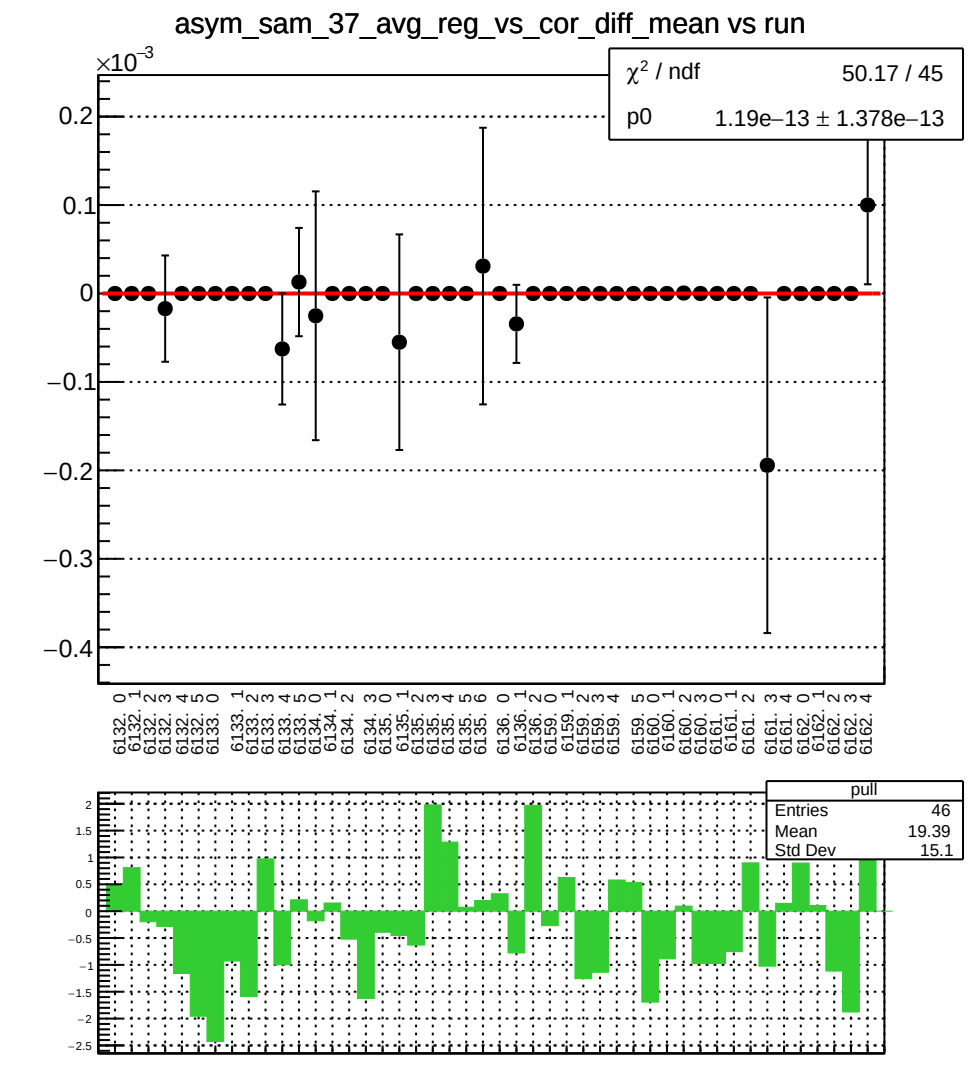
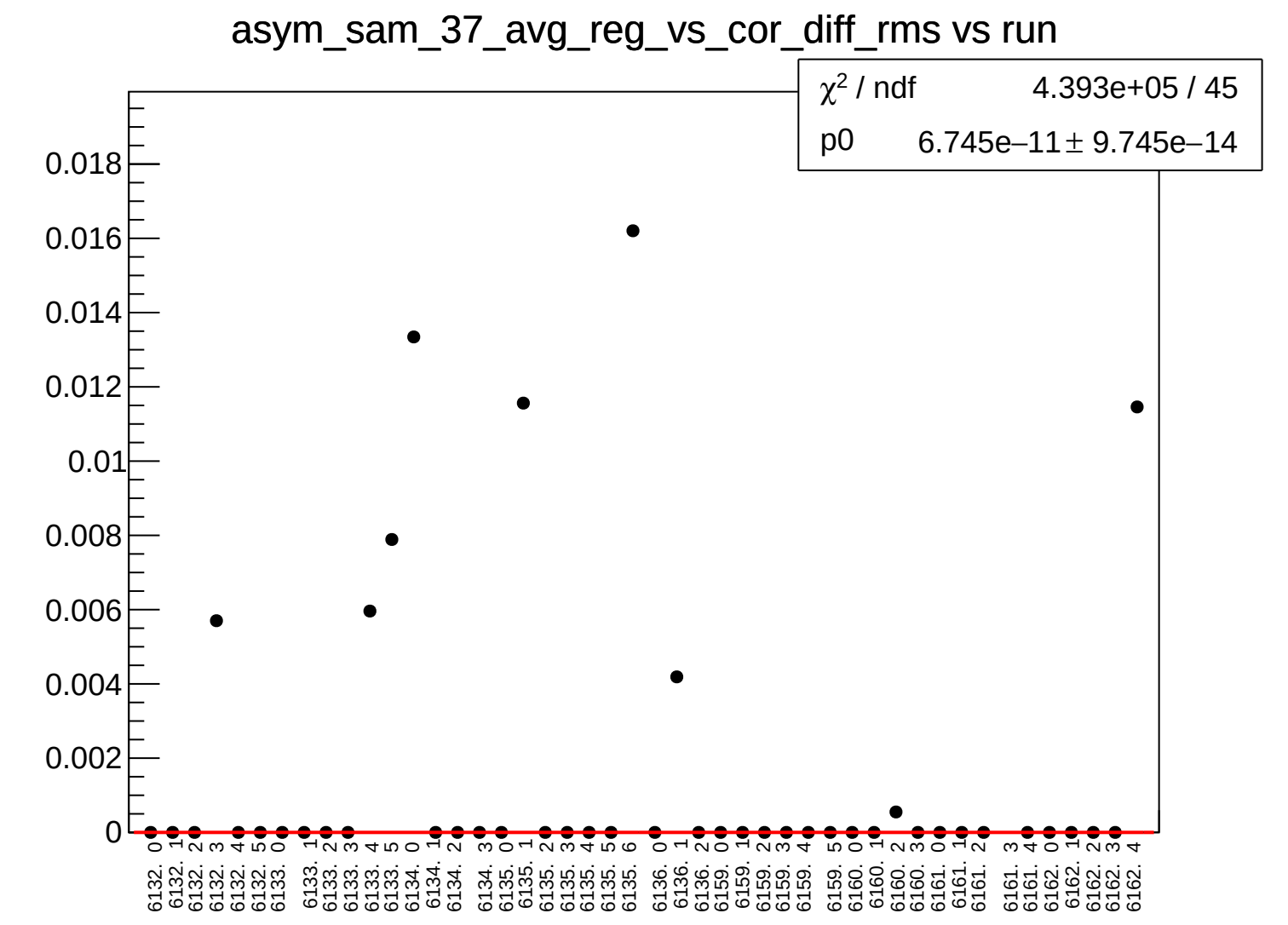
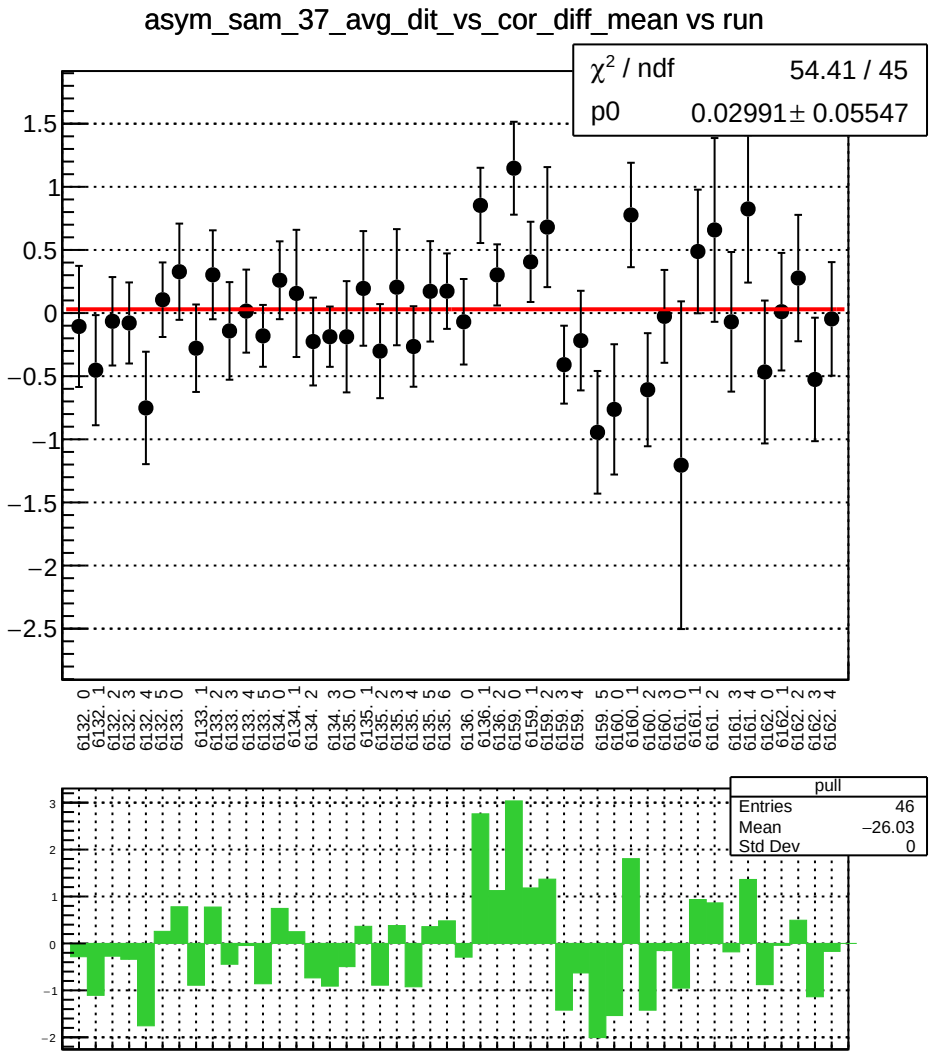
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

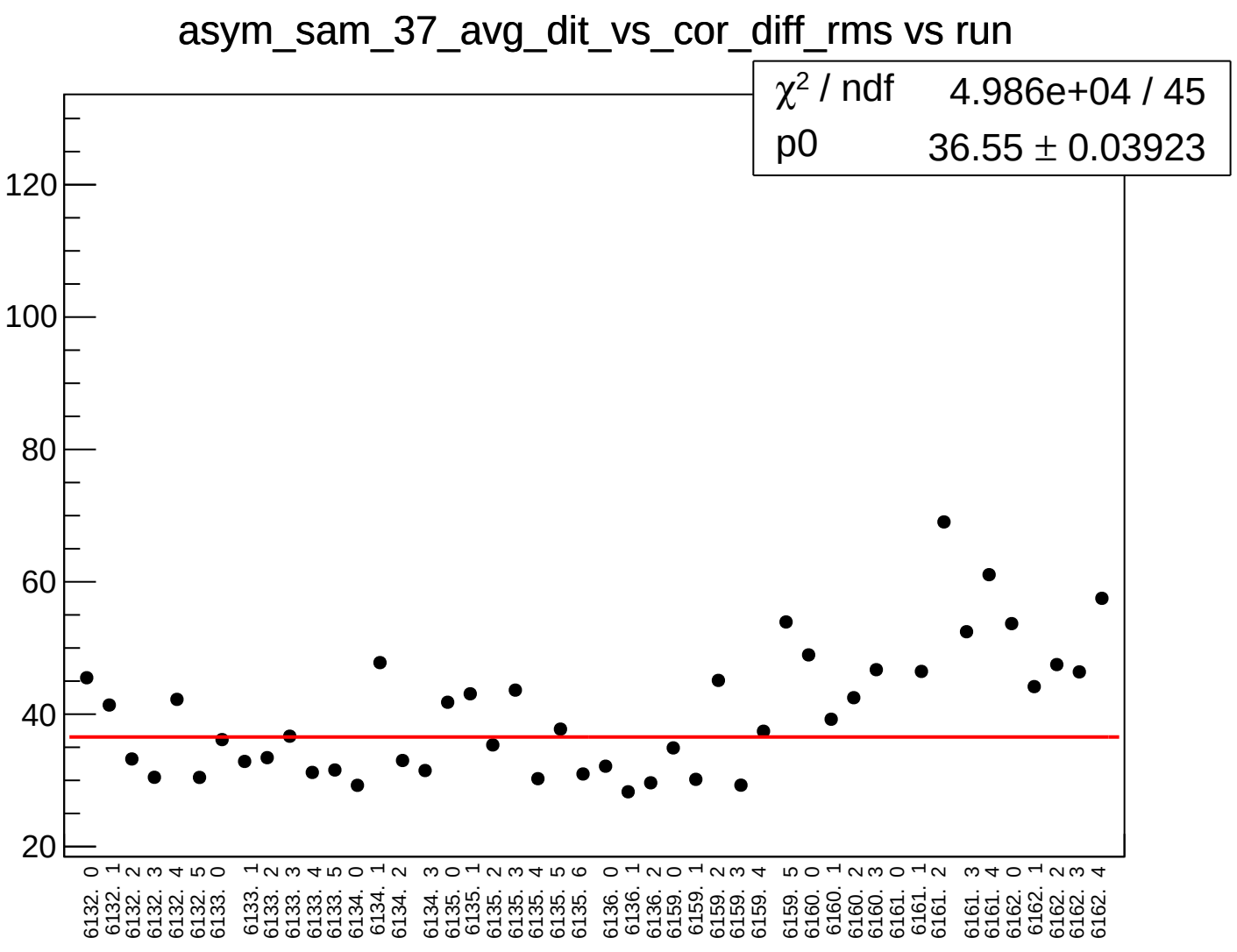

asym_sam_37_avg_mean vs run
χ² / ndf 53.28 / 45
p0 383.9 ± 1851
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 93.14
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.04585
Std Dev 1.075
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

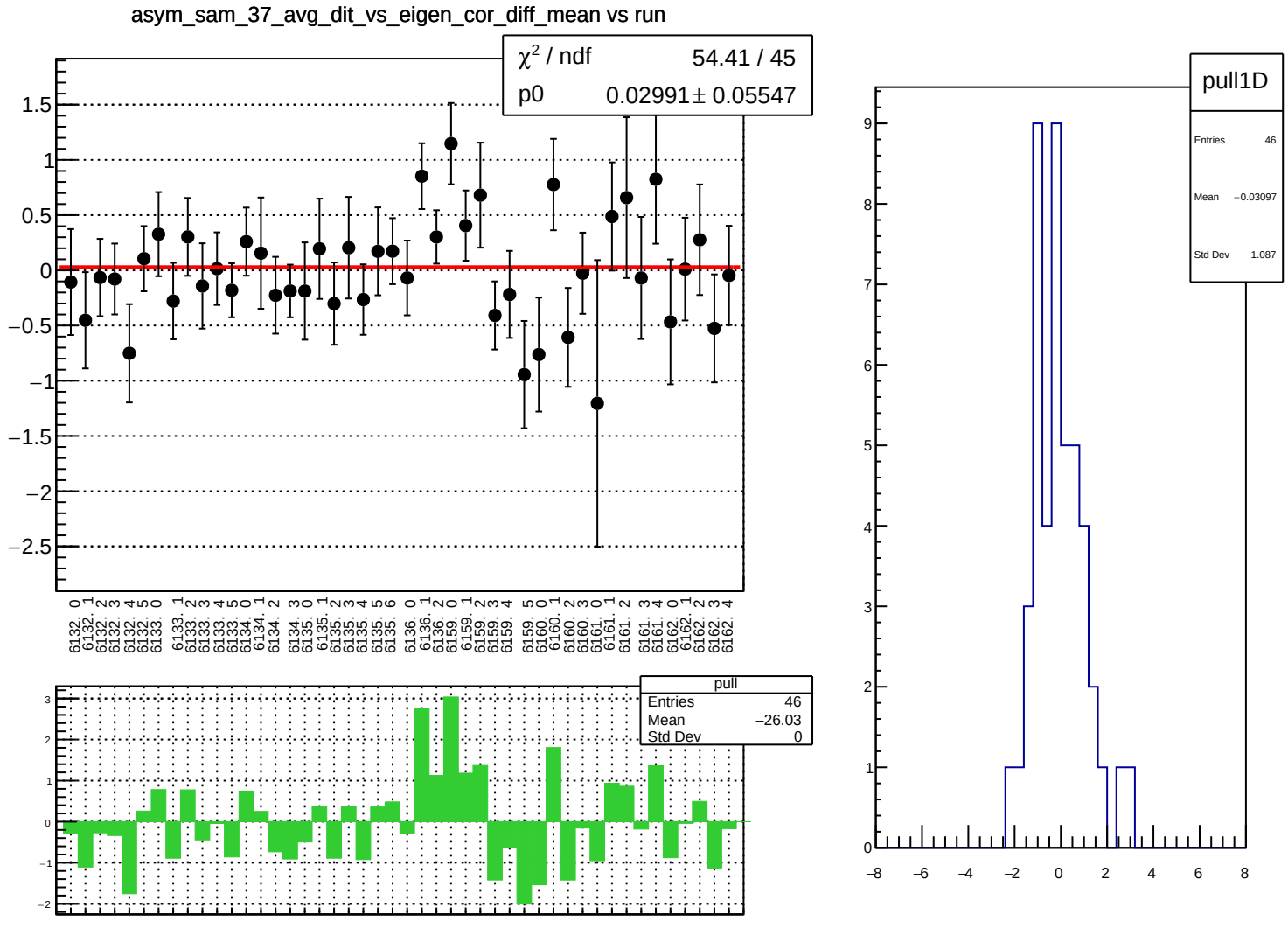

asym_sam_37_avg_rms vs run
χ² / ndf 6.688e+04 / 45
p0 1207 ± 1.309
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

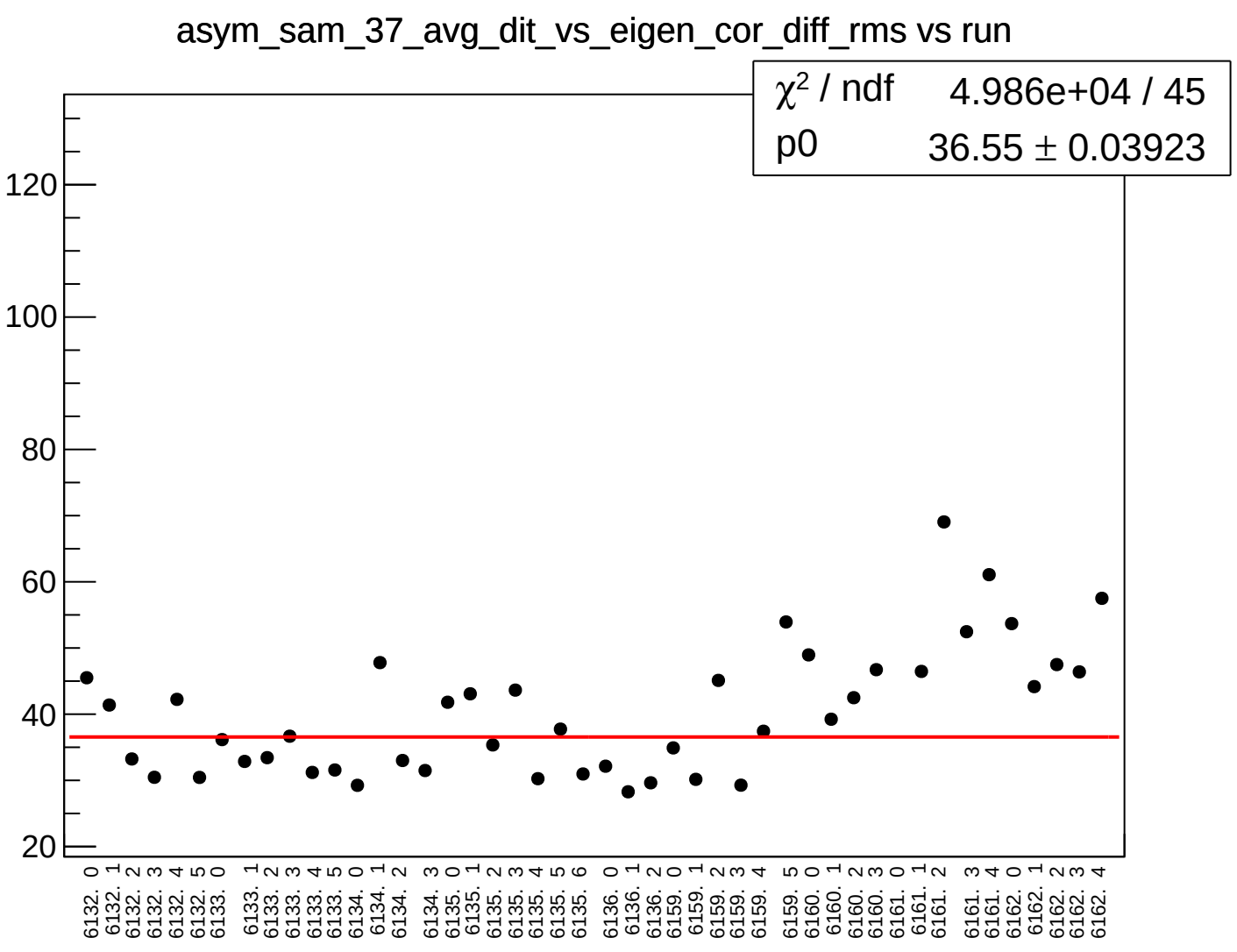

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 50.17 / 45
p0 1.19e−13 ± 1.378e−13
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 19.39
Std Dev 15.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.2739
Std Dev 1.008
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

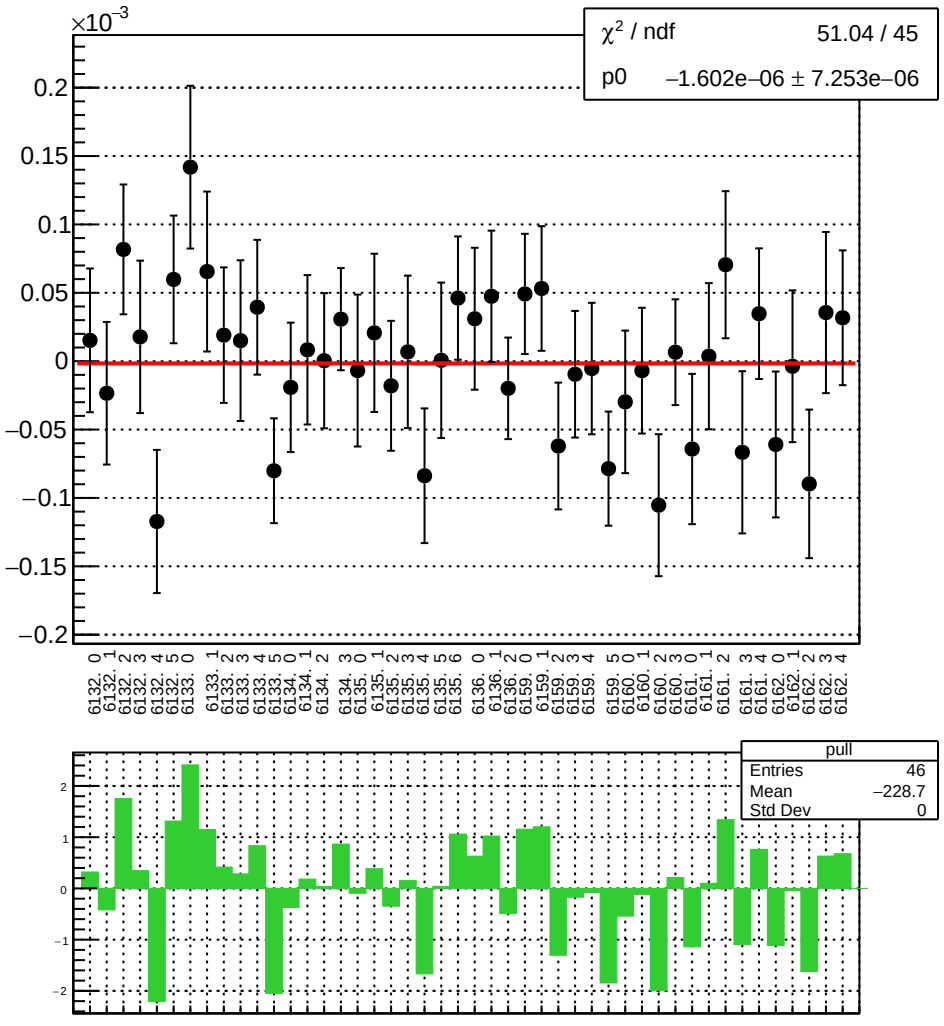

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.393e+05 / 45
p0 6.745e−11 ± 9.745e−14
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

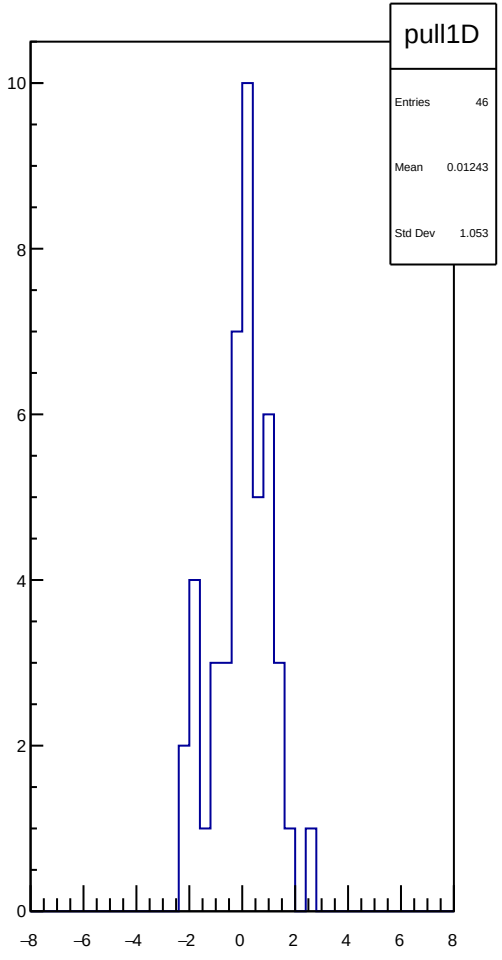

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 54.41 / 45
p0 0.02991 ± 0.05547
pull
Entries 46
Mean −26.03
Std Dev 0
pull1D
Entries 46
Mean −0.03097
Std Dev 1.087

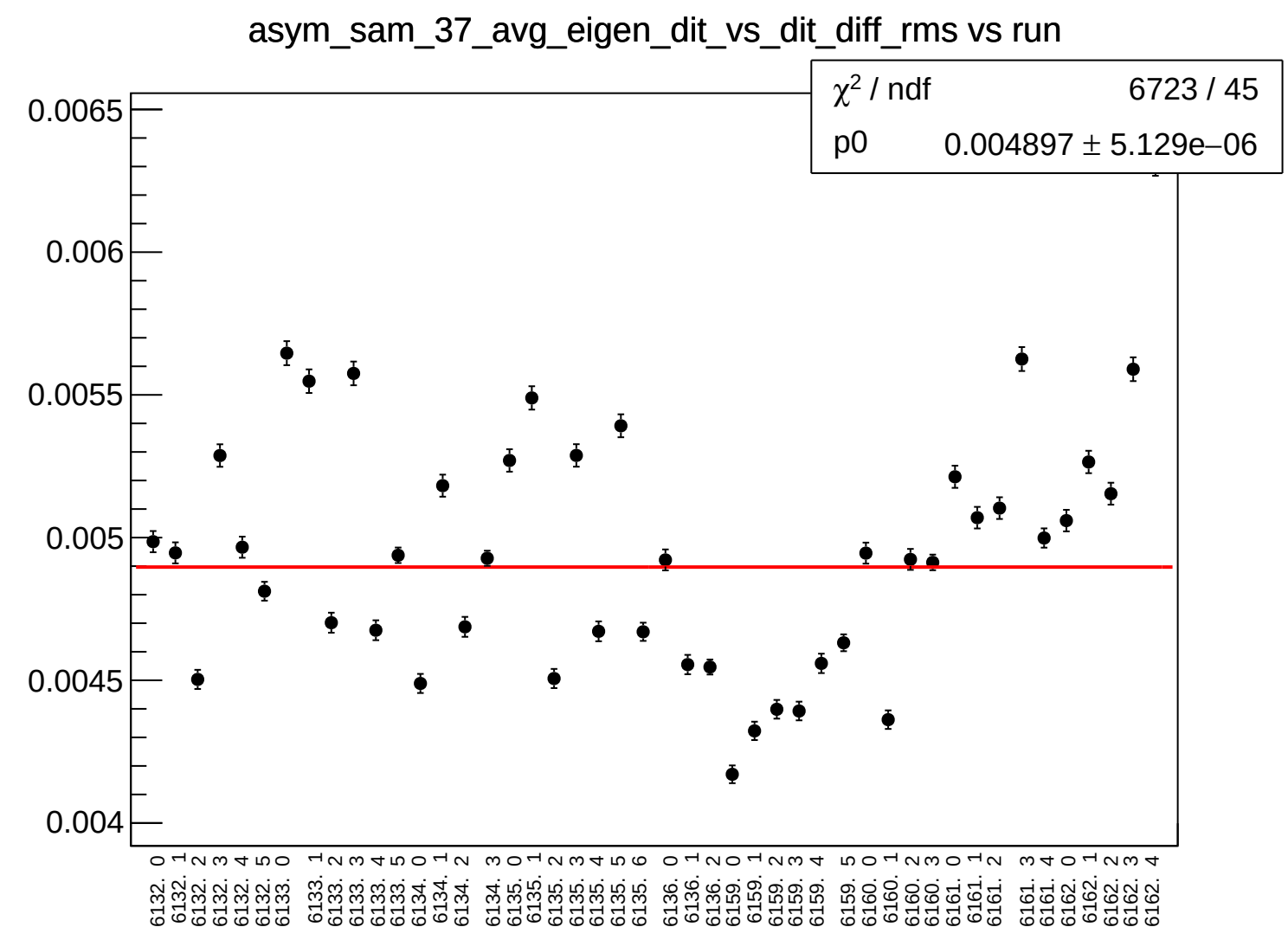

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.986e+04 / 45
p0 36.55 ± 0.03923
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

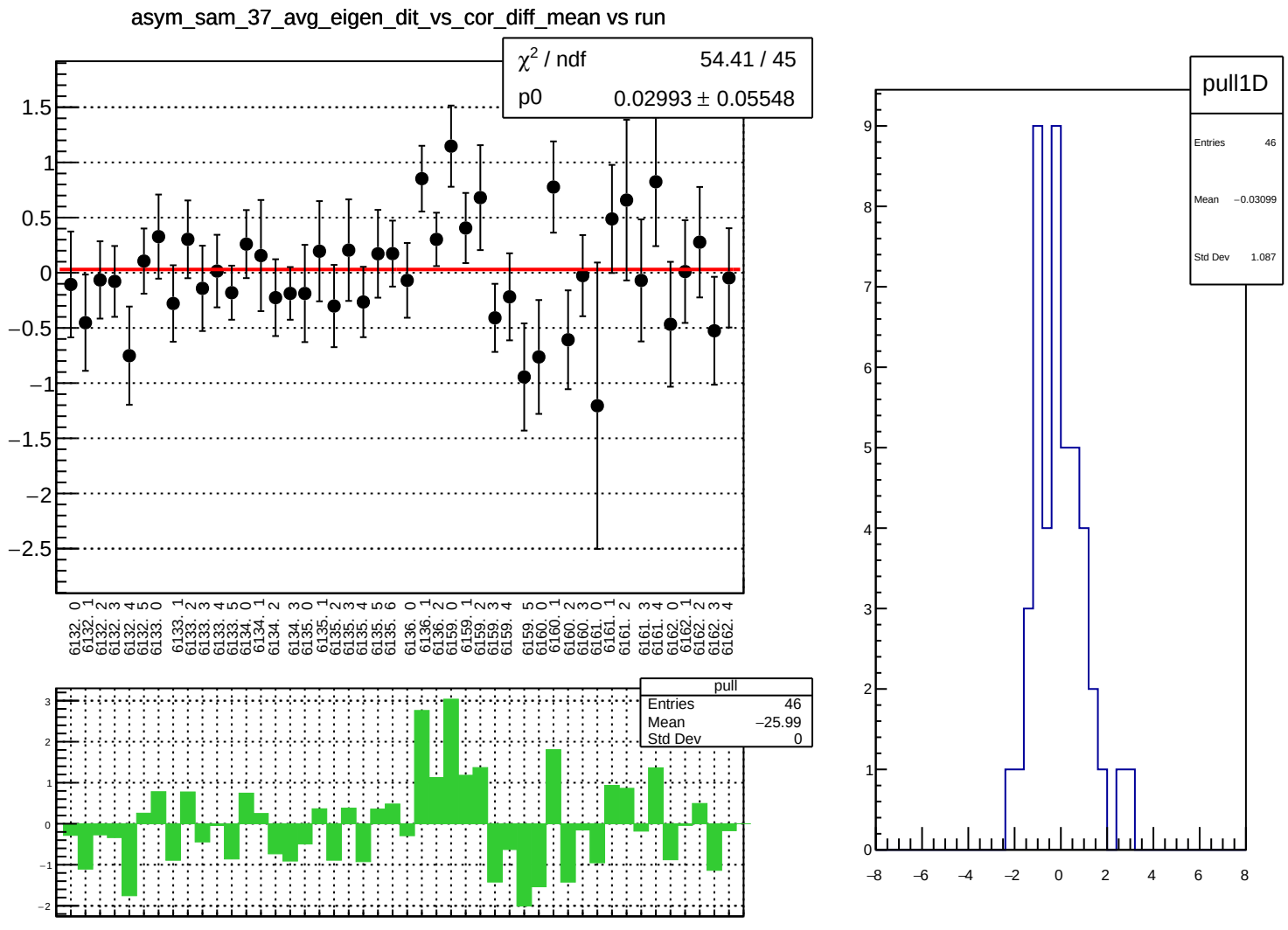

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.41 / 45
p0 0.02991 ± 0.05547
pull
Entries 46
Mean −26.03
Std Dev 0
pull1D
Entries 46
Mean −0.03097
Std Dev 1.087

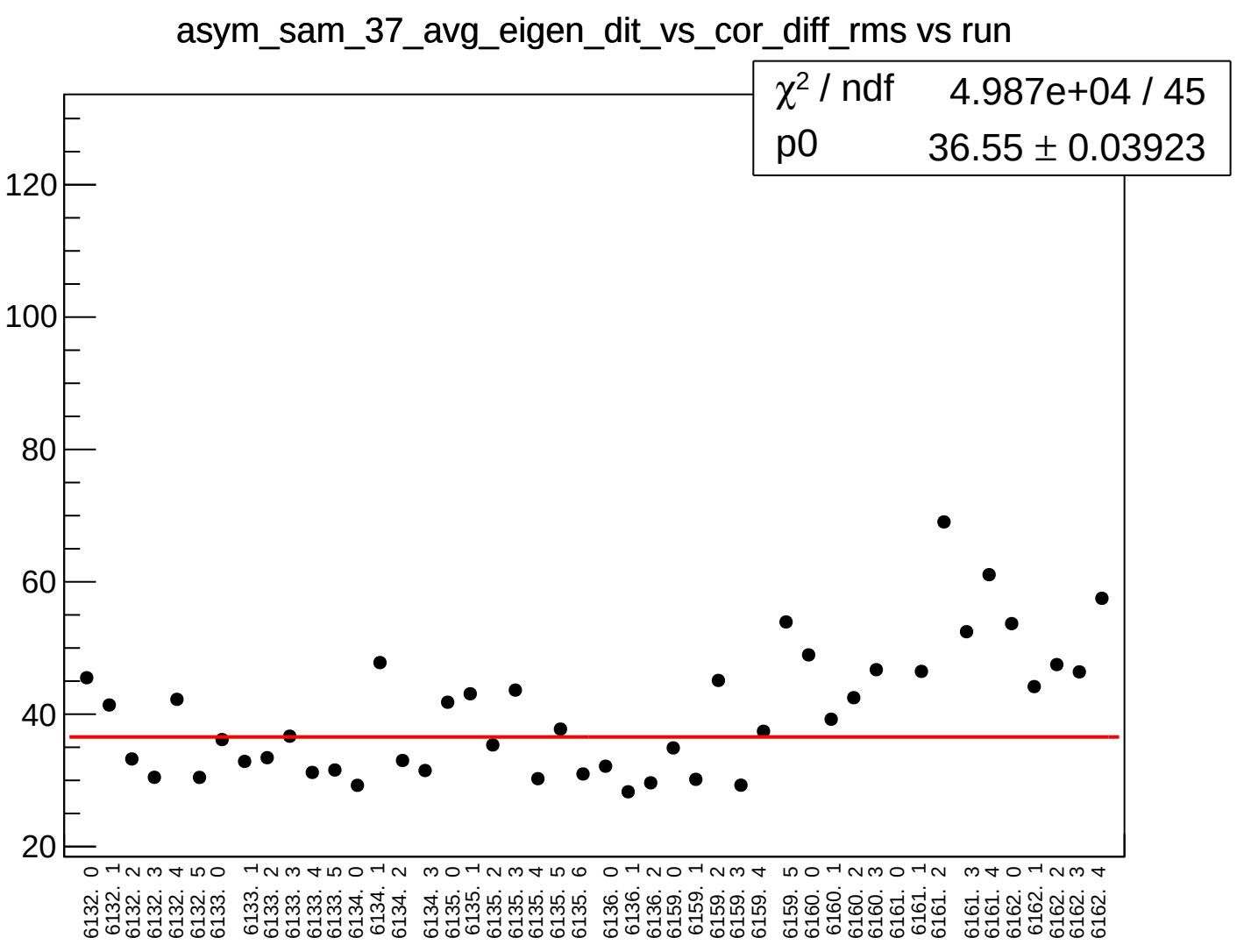

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.986e+04 / 45
p0 36.55 ± 0.03923
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

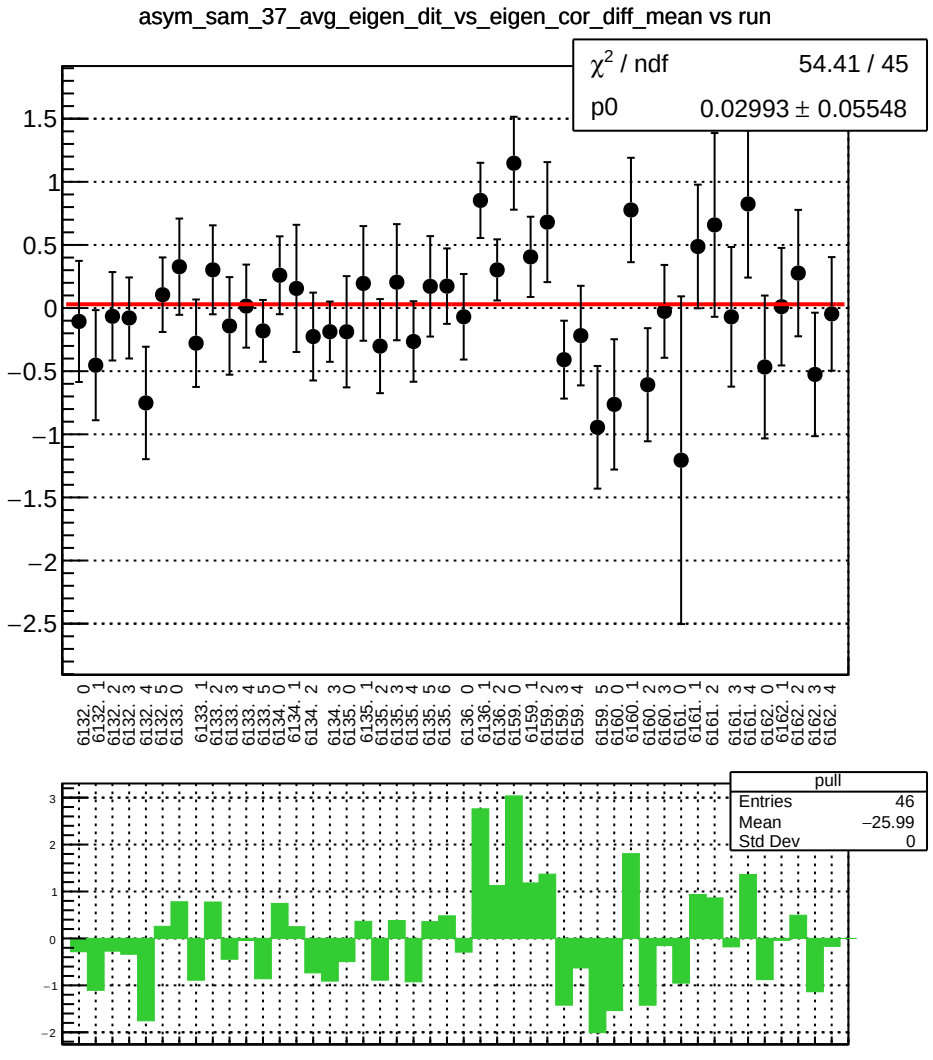

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 51.04 / 45
p0 −1.602e−06 ± 7.253e−06
pull
Entries 46
Mean −228.7
Std Dev 0

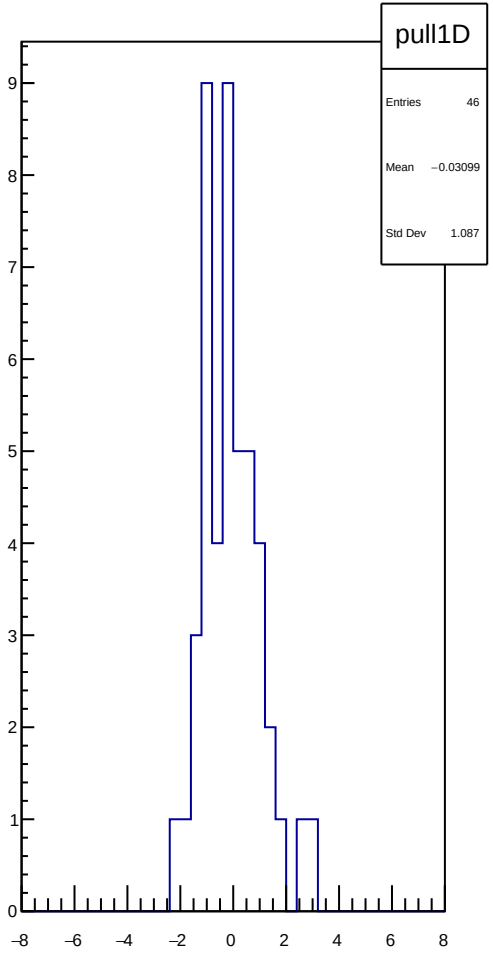

pull1D
Entries 46
Mean 0.01243
Std Dev 1.053

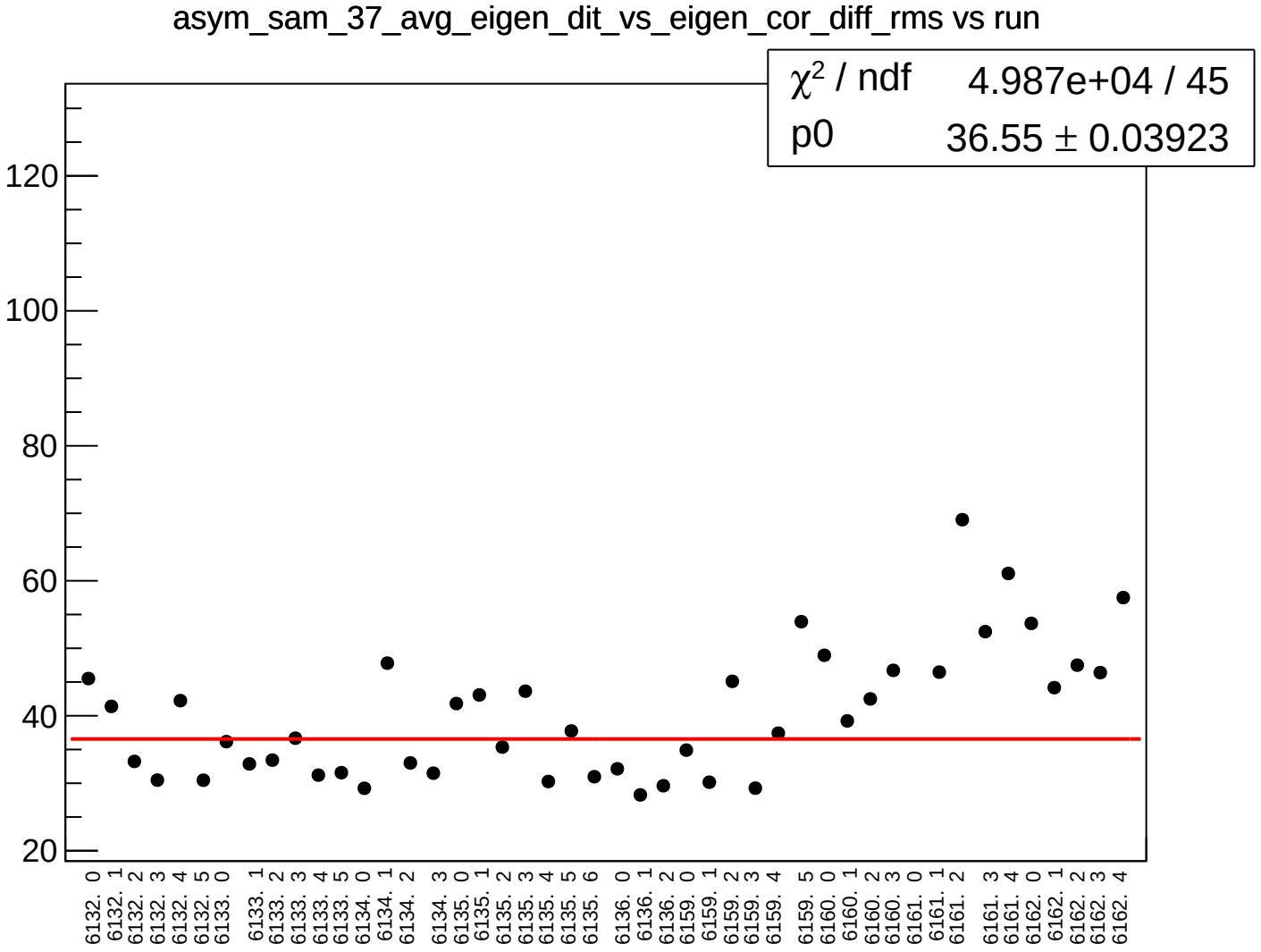

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6723 / 45
p0 0.004897 ± 5.129e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 54.41 / 45
p0 0.02993 ± 0.05548
pull
Entries 46
Mean −25.99
Std Dev 0
pull1D
Entries 46
Mean −0.03099
Std Dev 1.087


asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.987e+04 / 45
p0 36.55 ± 0.03923
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.41 / 45
p0 0.02993 ± 0.05548
pull
Entries 46
Mean −25.99
Std Dev 0


pull1D
Entries 46
Mean −0.03099
Std Dev 1.087


asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.987e+04 / 45
p0 36.55 ± 0.03923
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
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6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
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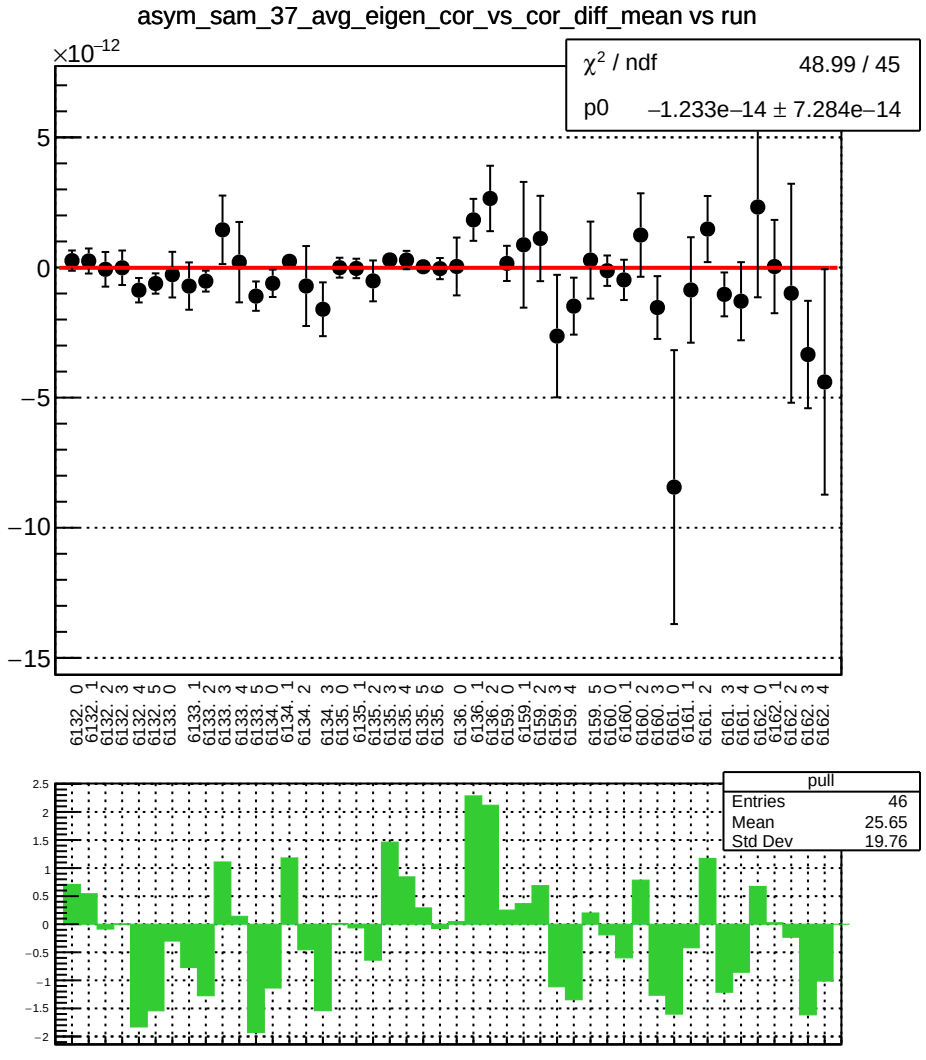
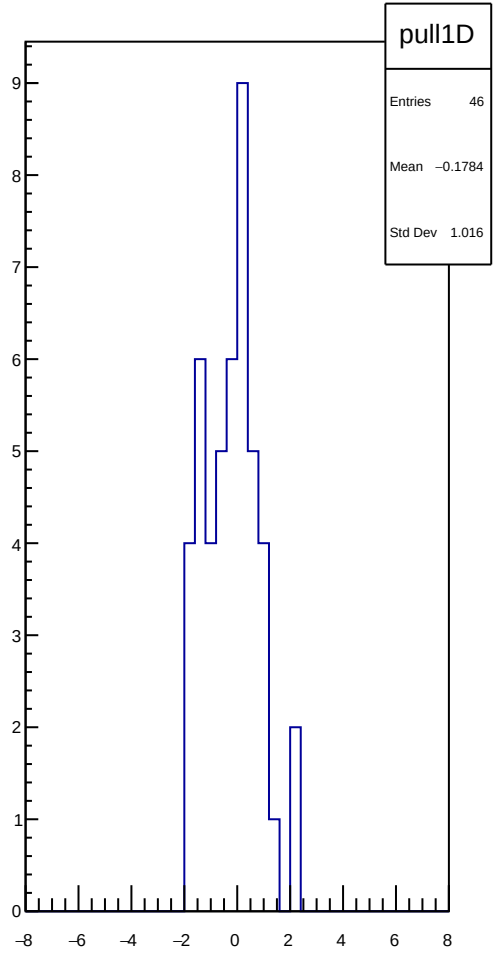
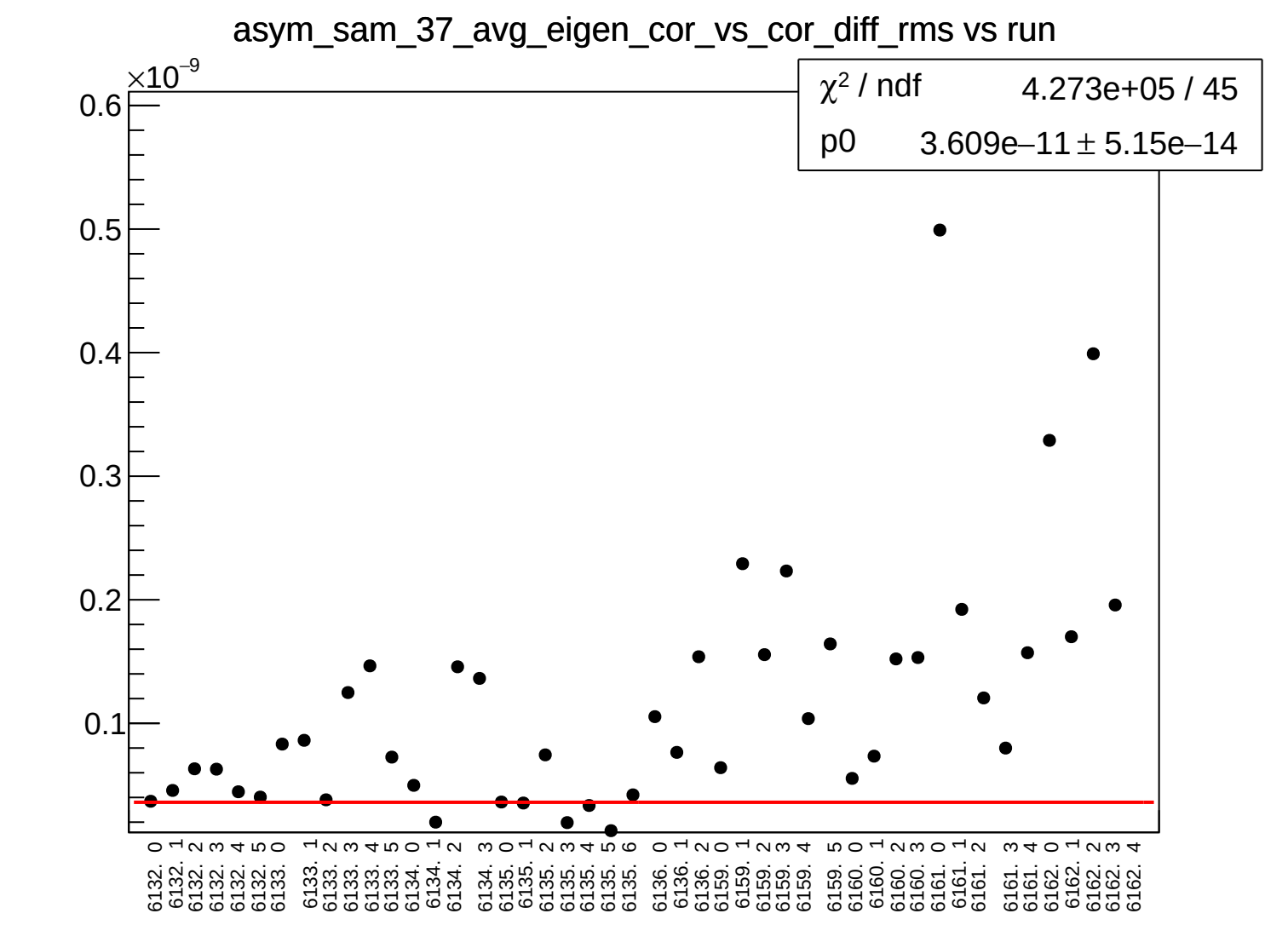
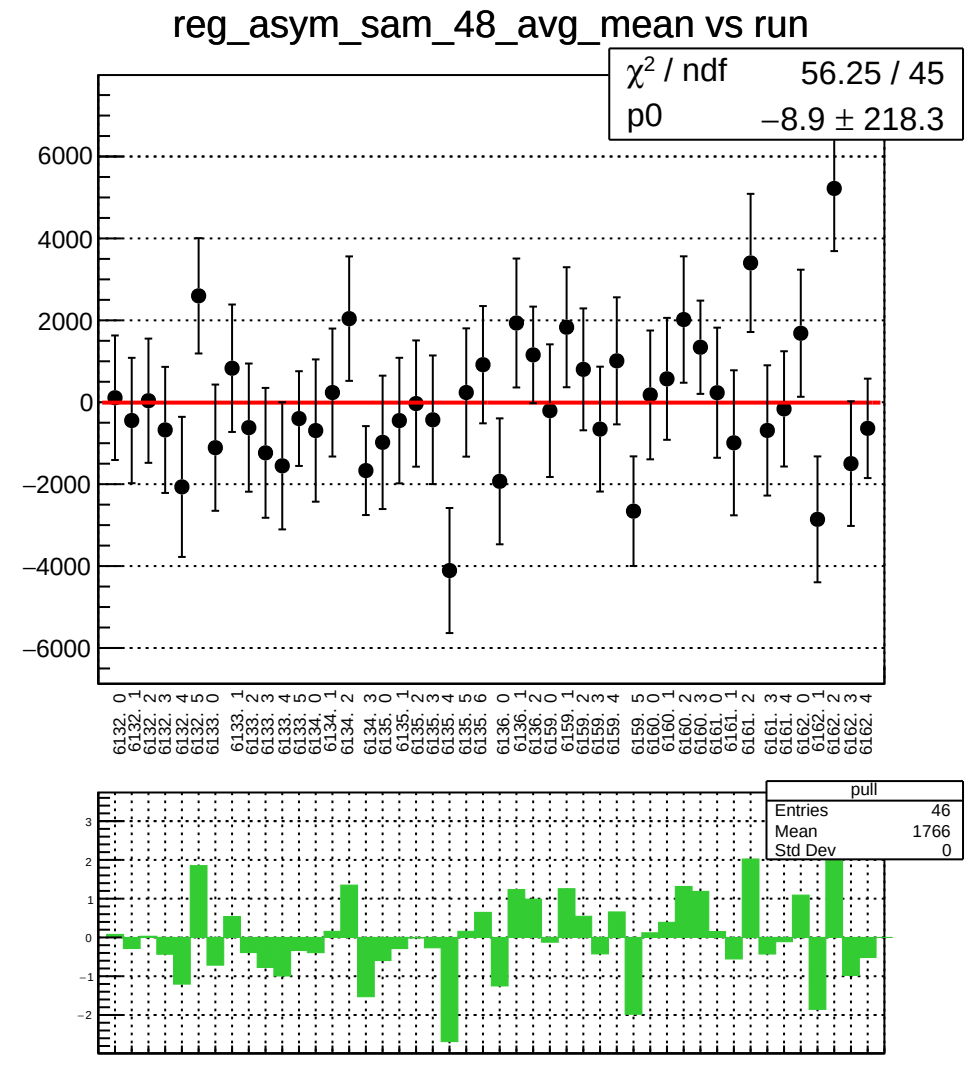
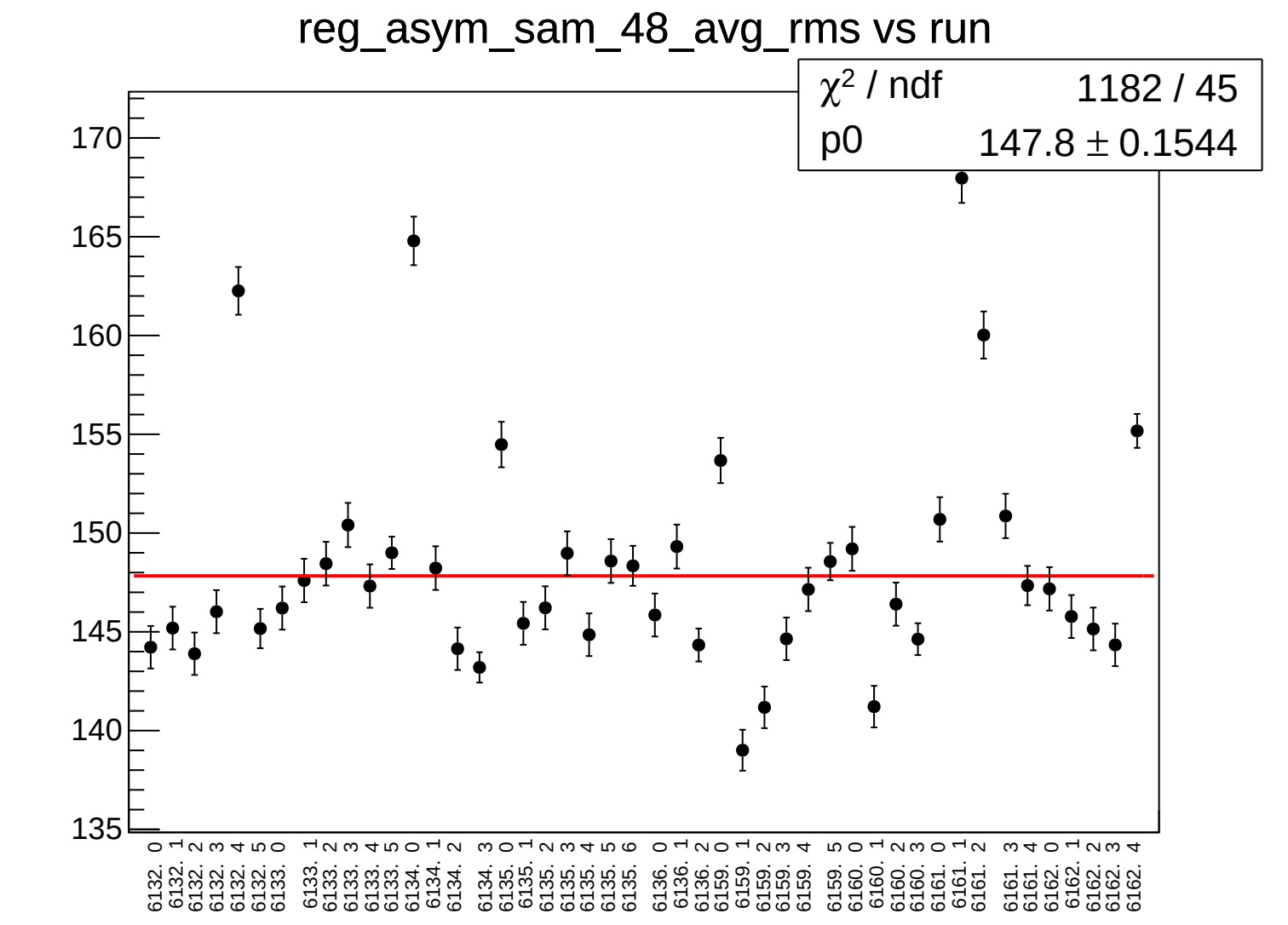
6162. 3
6162. 4


asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 48.99 / 45
p0 −1.233e−14 ± 7.284e−14
pull
Entries 46
Mean 25.65
Std Dev 19.76


pull1D
Entries 46
Mean −0.1784
Std Dev 1.016


asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.273e+05 / 45
p0 3.609e−11 ± 5.15e−14
0.6
0.5
0.4
0.3
0.2
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_sam_48_avg_mean vs run
χ² / ndf 56.25 / 45
p0 −8.9 ± 218.3
6000
4000
2000
0
−2000
−4000
−6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 1766
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.001538
Std Dev 1.106
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 1182 / 45
p0 147.8 ± 0.1544
170
165
160
155
150
145
140
135
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
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6159. 1
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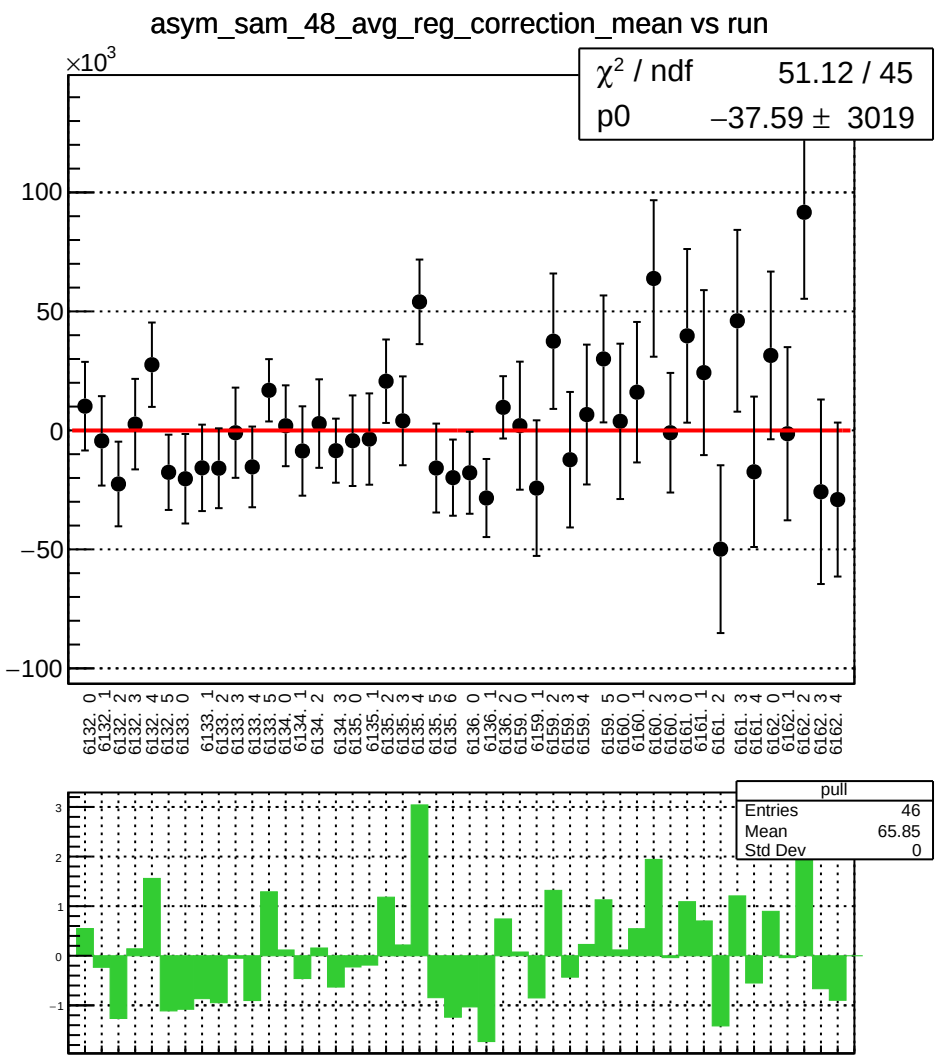
asym_sam_48_avg_reg_correction_mean vs run
×10^3
χ² / ndf 51.12 / 45
p0 −37.59 ± 3019
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
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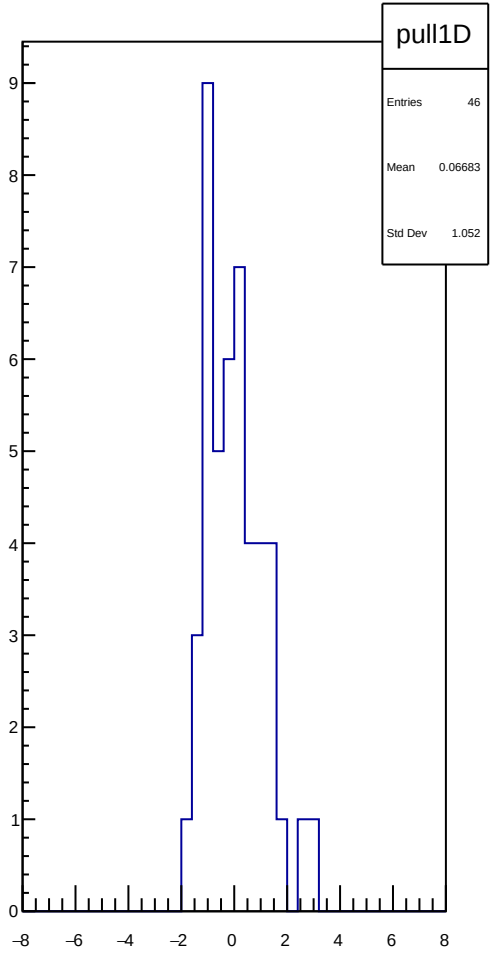
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 65.85
Std Dev 0
3
2
1
0
−1


pull1D
Entries 46
Mean 0.06683
Std Dev 1.052
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5
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3
2
1
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−8
−6
−4
−2
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2
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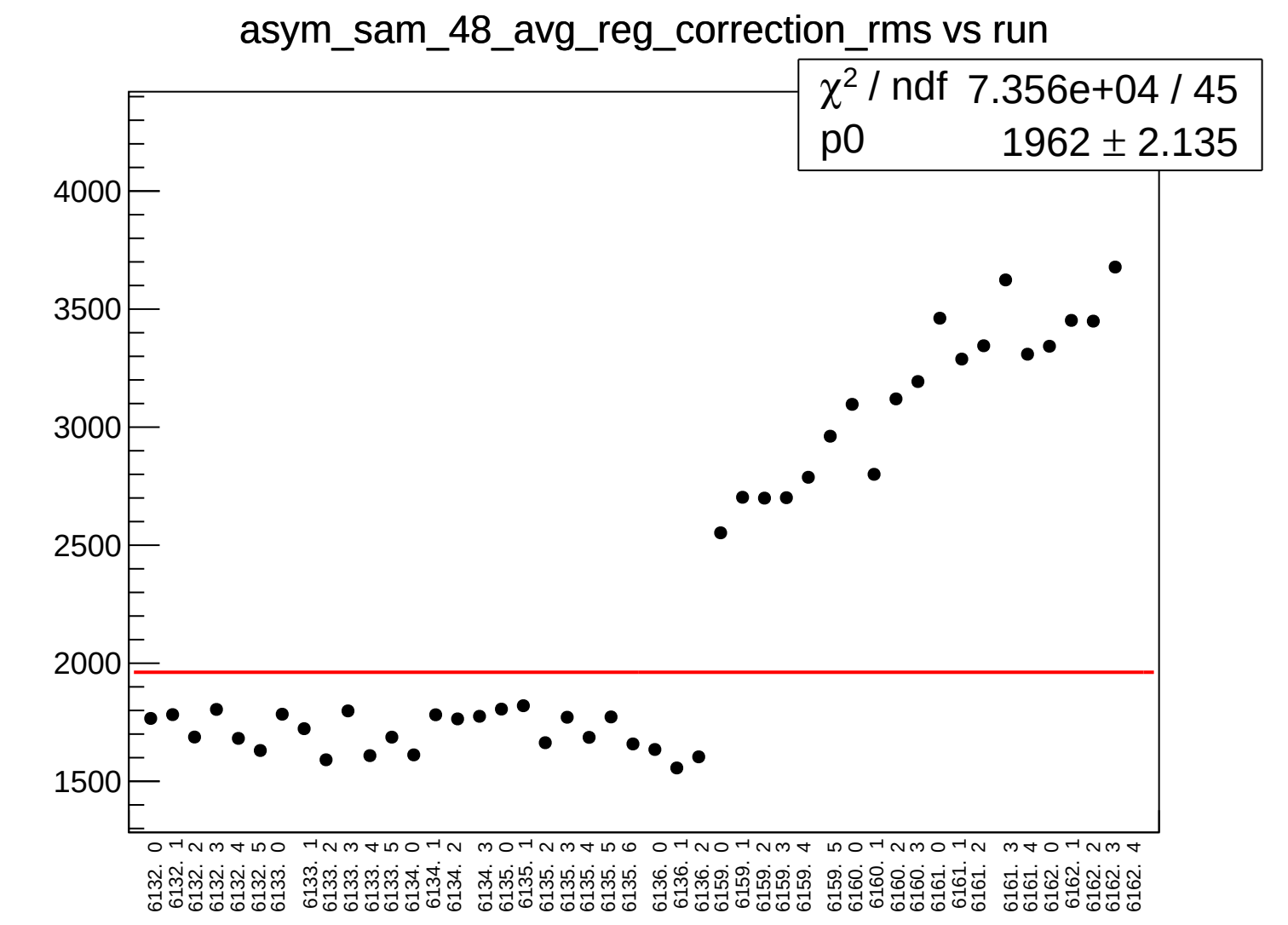
6
8


asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 7.356e+04 / 45
p0 1962 ± 2.135
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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6159. 2
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6159. 4
6159. 5
6160. 0
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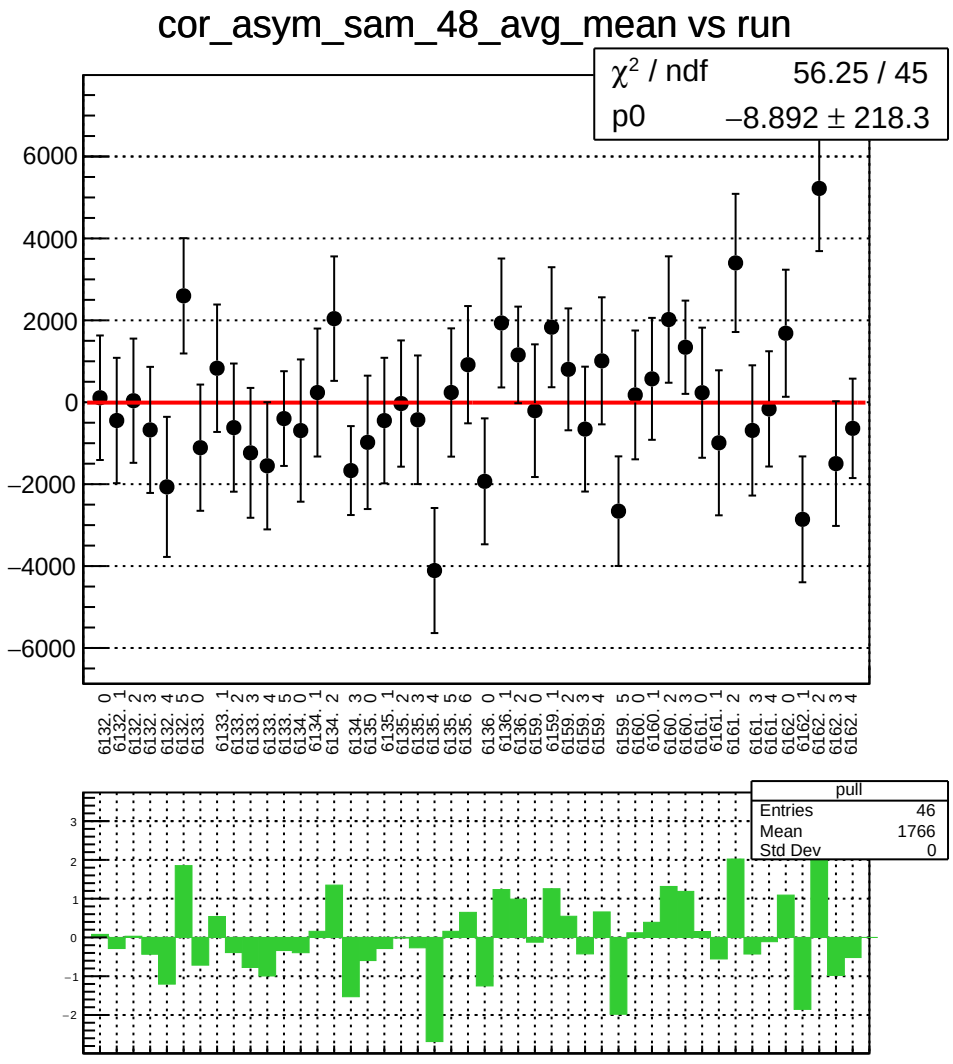
cor_asym_sam_48_avg_mean vs run
χ² / ndf 56.25 / 45
p0 −8.892 ± 218.3
6000
4000
2000
0
−2000
−4000
−6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
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6134. 2
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6135. 2
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6135. 6
6136. 0
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6136. 2
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 1766
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.001538
Std Dev 1.106
9
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5
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1
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−4
−2
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2
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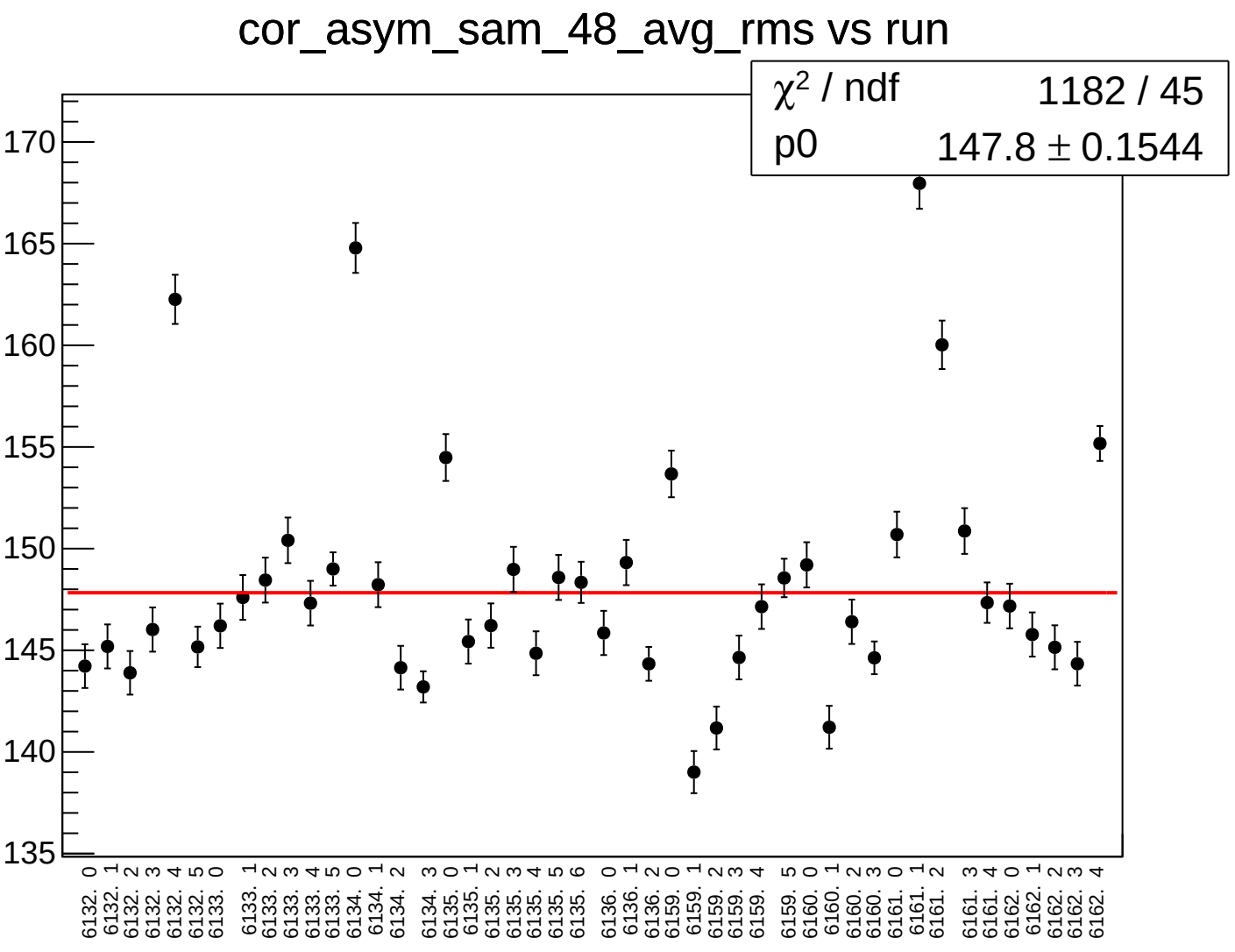
6
8


cor_asym_sam_48_avg_rms vs run
χ² / ndf 1182 / 45
p0 147.8 ± 0.1544
170
165
160
155
150
145
140
135
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
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6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
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6162. 0
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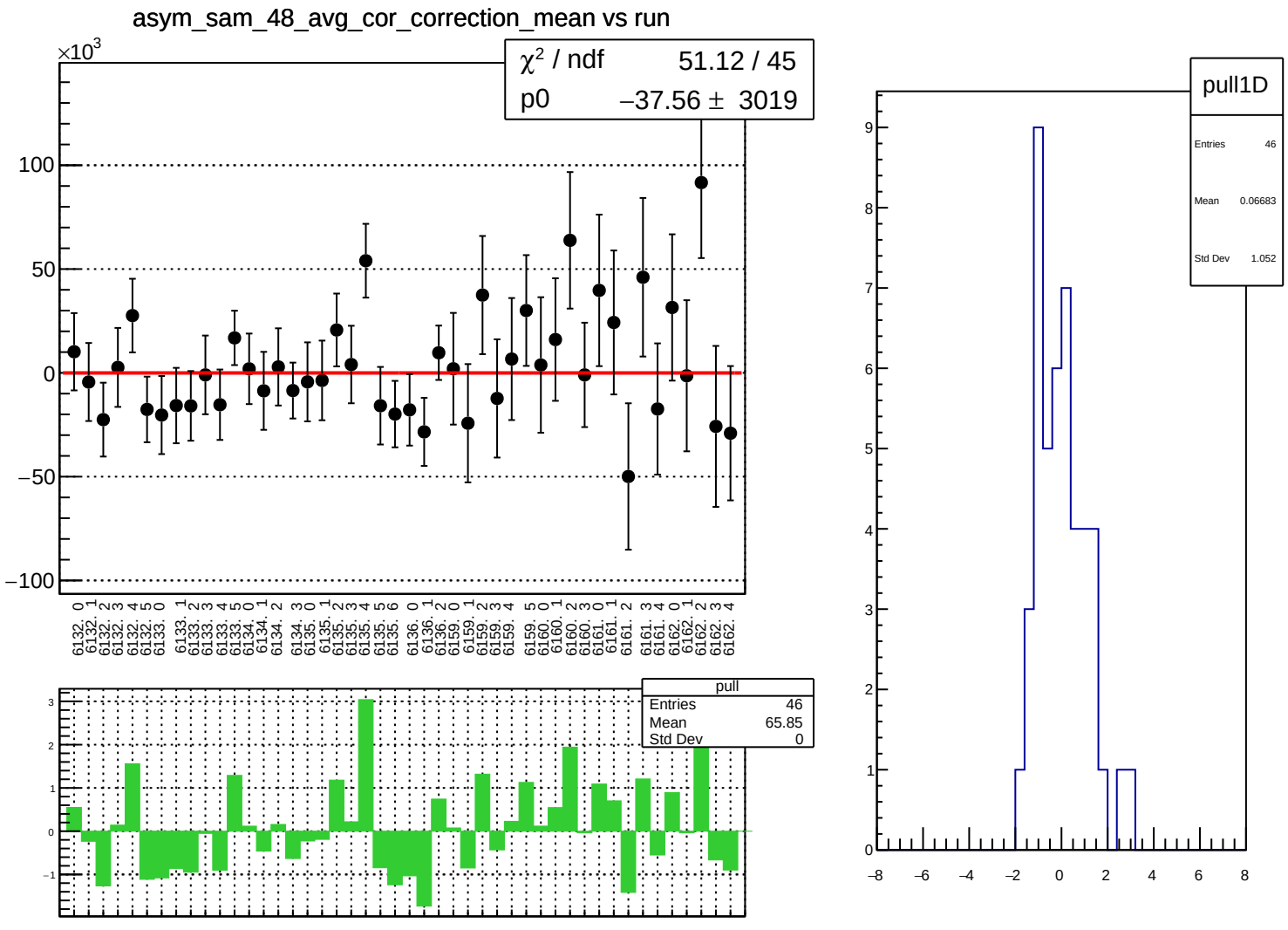
6162. 4


asym_sam_48_avg_cor_correction_mean vs run
×10^3
χ² / ndf 51.12 / 45
p0 −37.56 ± 3019
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6134. 2
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6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 65.85
Std Dev 0
3
2
1
0
−1
pull1D
Entries 46
Mean 0.06683
Std Dev 1.052
9
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0
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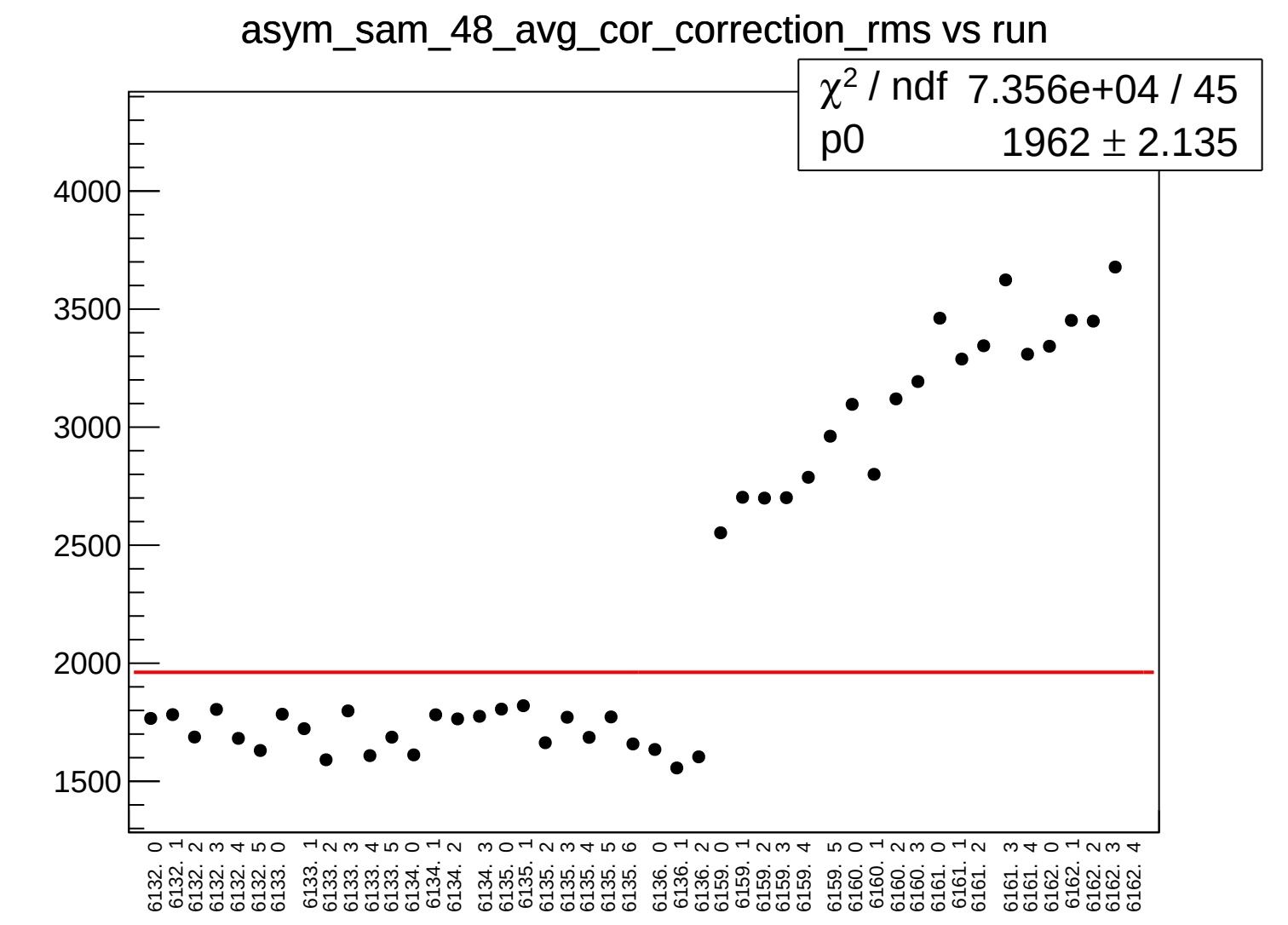
asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 7.356e+04 / 45
p0 1962 ± 2.135
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6136. 2
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6159. 2
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6160. 1
6160. 2
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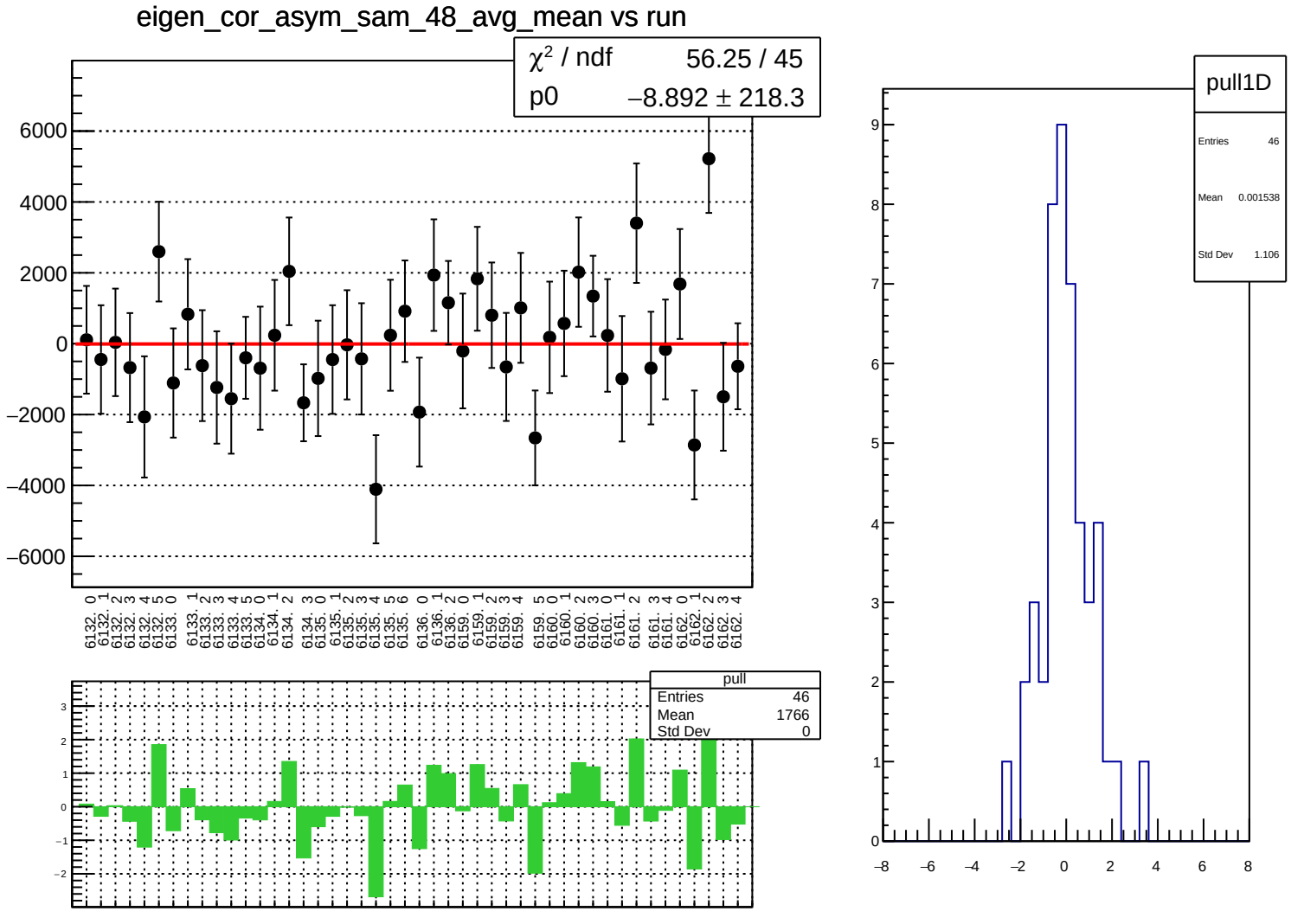
6162. 3
6162. 4


eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 56.25 / 45
p0 −8.892 ± 218.3
6000
4000
2000
0
−2000
−4000
−6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
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6135. 1
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6135. 5
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6159. 4
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6160. 1
6160. 2
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6161. 0
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6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
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pull
Entries 46
Mean 1766
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.001538
Std Dev 1.106
9
8
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5
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3
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−4
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2
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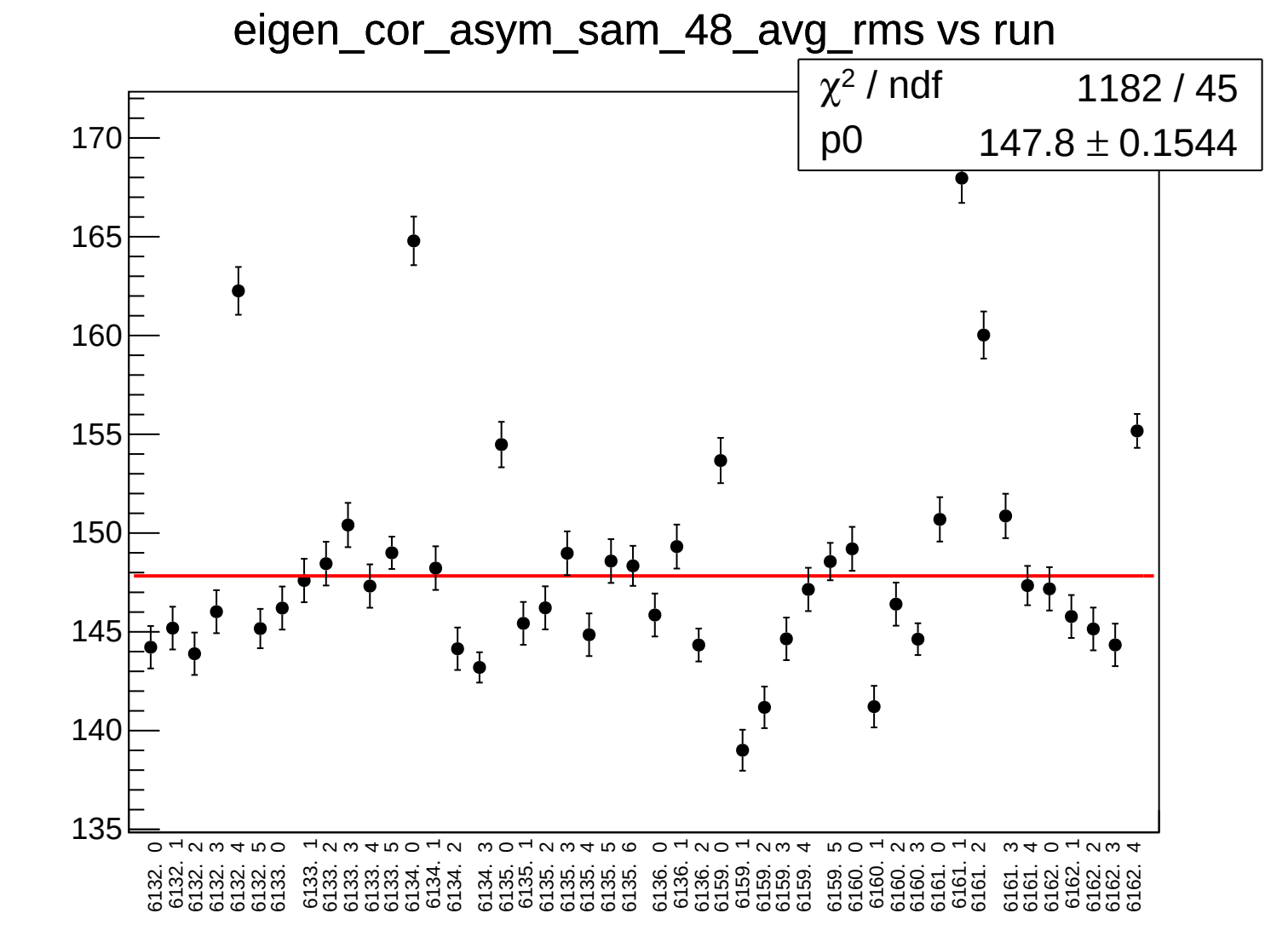
6
8


eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 1182 / 45
p0 147.8 ± 0.1544
170
165
160
155
150
145
140
135
6132. 0
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6132. 2
6132. 3
6132. 4
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6160. 1
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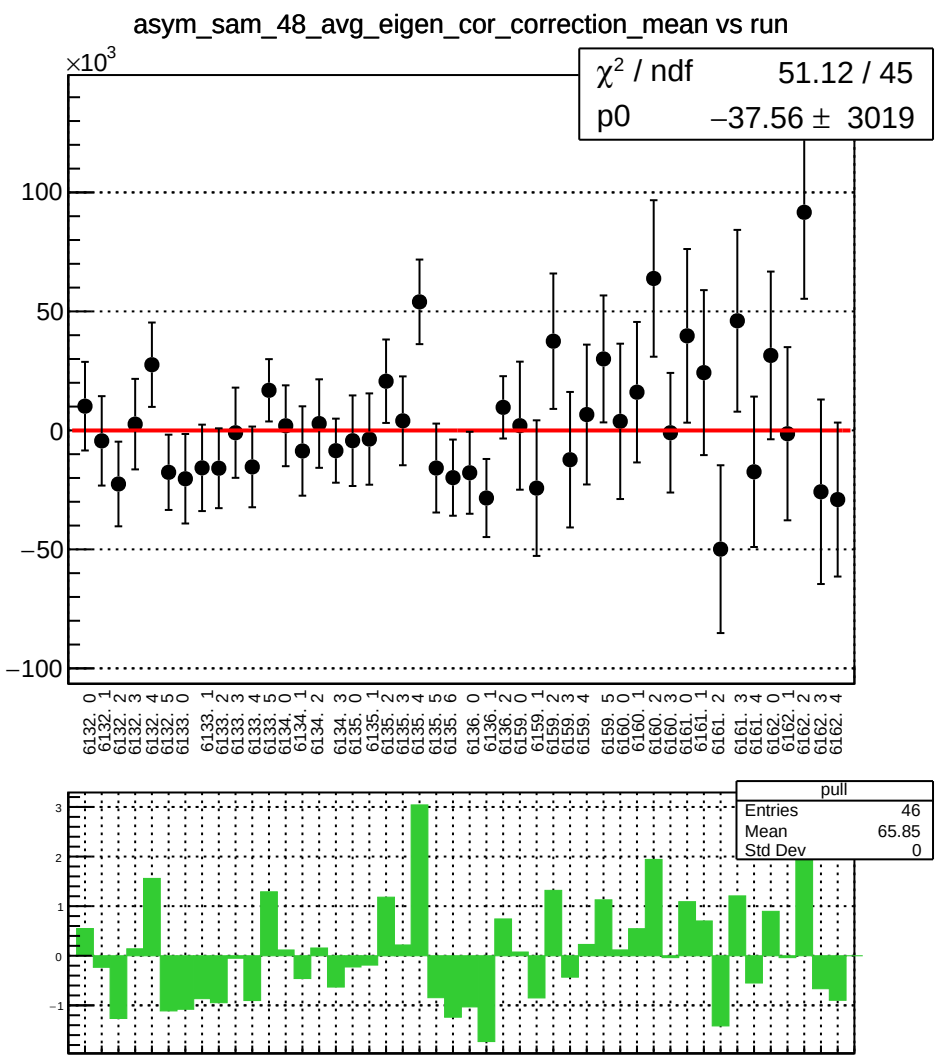
6162. 4


asym_sam_48_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 51.12 / 45
p0 −37.56 ± 3019
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
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6135. 4
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6135. 6
6136. 0
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6136. 2
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
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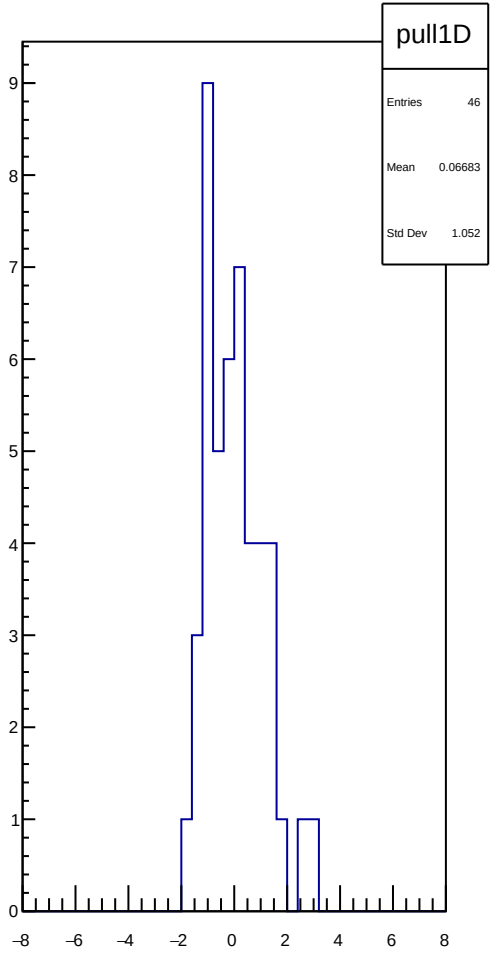
6162. 3
6162. 4
pull
Entries 46
Mean 65.85
Std Dev 0
3
2
1
0
−1


pull1D
Entries 46
Mean 0.06683
Std Dev 1.052
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−4
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2
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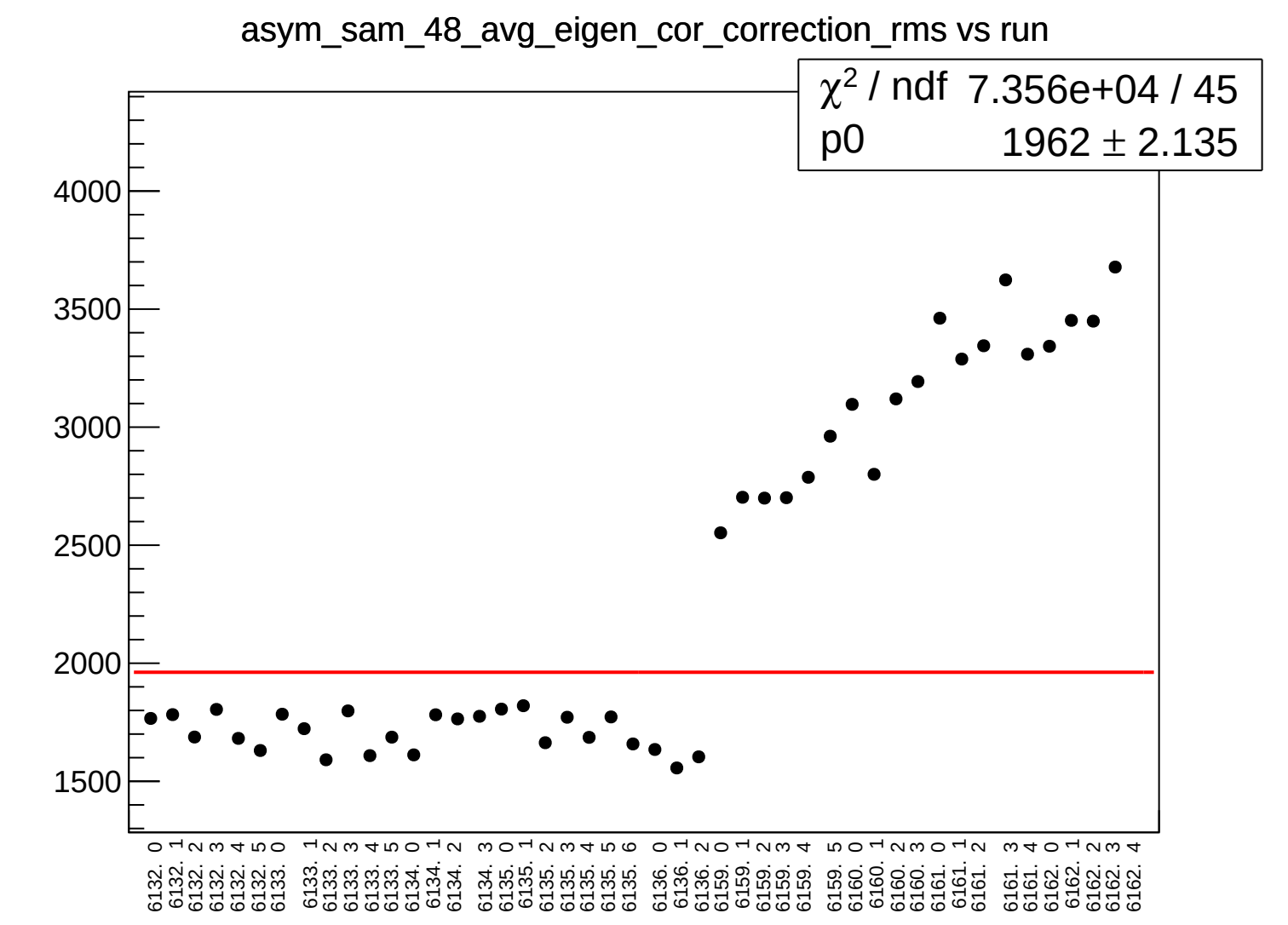
6
8


asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 7.356e+04 / 45
p0 1962 ± 2.135
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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6135. 2
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6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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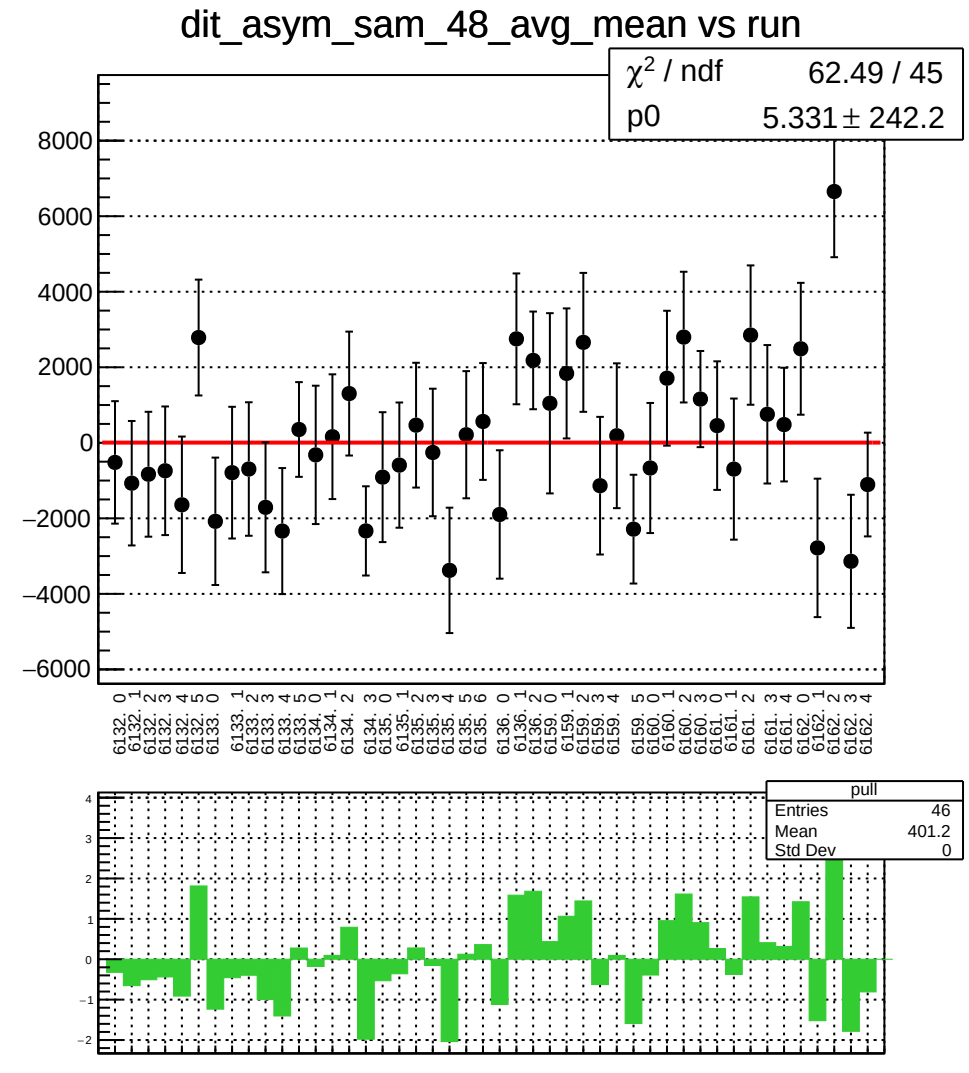
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


dit_asym_sam_48_avg_mean vs run
χ² / ndf 62.49 / 45
p0 5.331 ± 242.2
8000
6000
4000
2000
0
−2000
−4000
−6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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6135. 2
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6135. 4
6135. 5
6135. 6
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6136. 2
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6159. 2
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6160. 1
6160. 2
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6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
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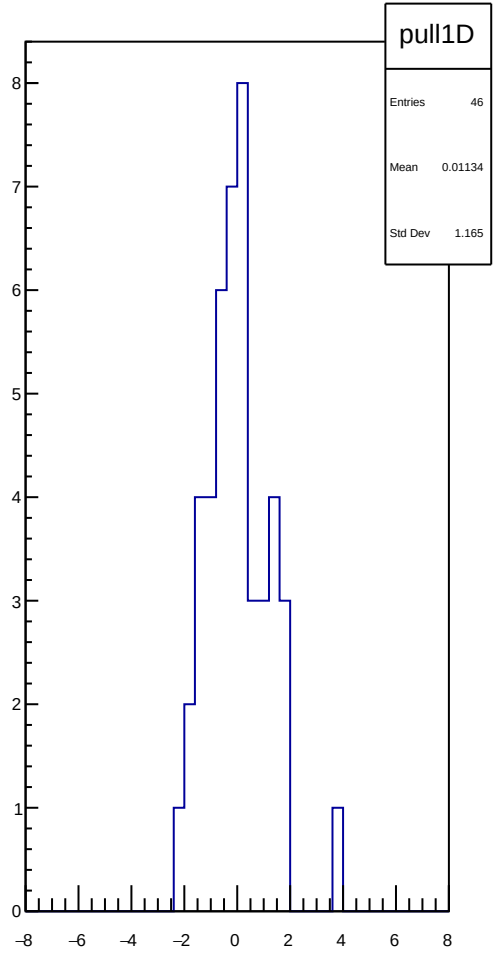
6162. 4
pull
Entries 46
Mean 401.2
Std Dev 0
4
3
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.01134
Std Dev 1.165
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7
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5
4
3
2
1
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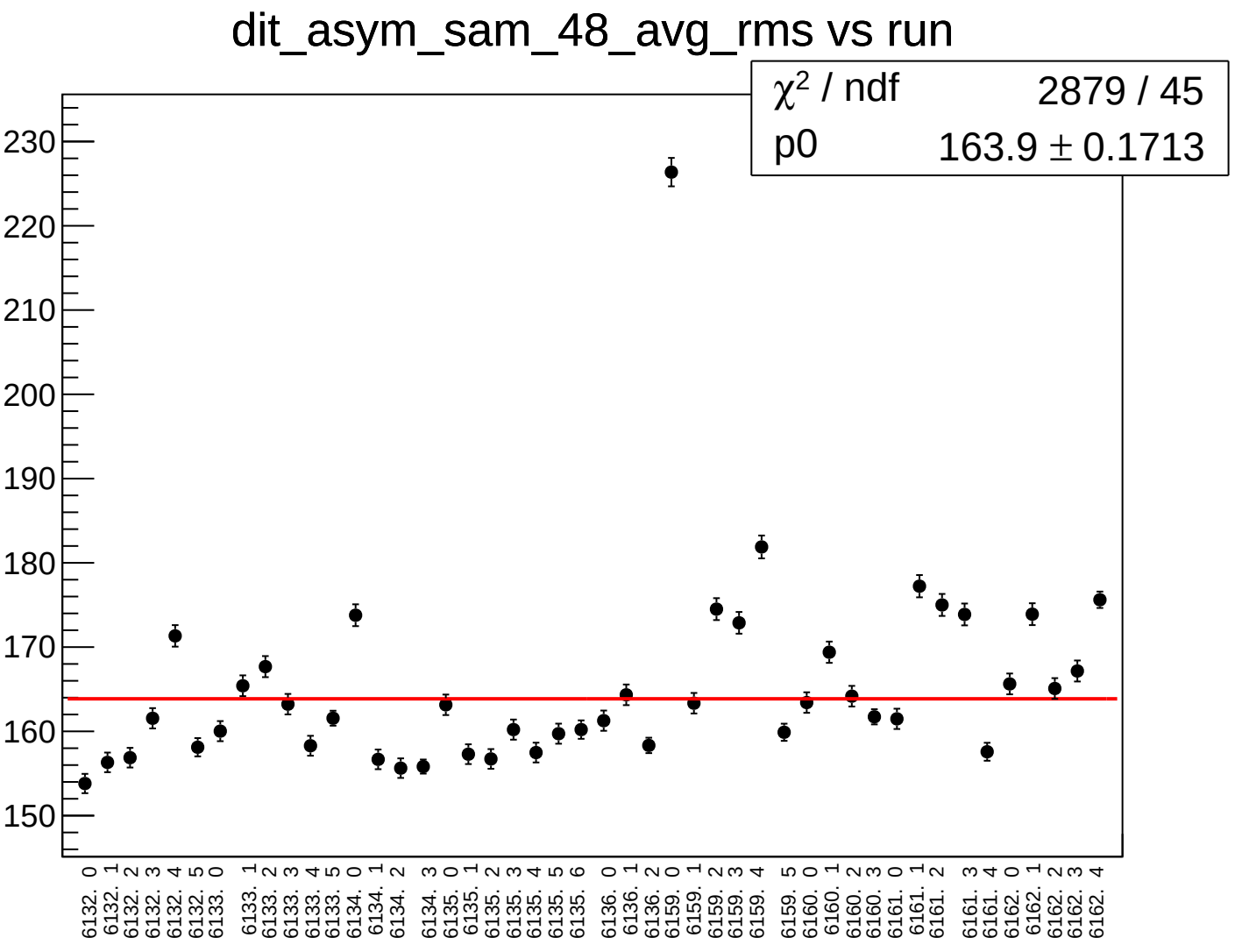
−6
−4
−2
0
2
4
6
8


dit_asym_sam_48_avg_rms vs run
χ² / ndf 2879 / 45
p0 163.9 ± 0.1713
230
220
210
200
190
180
170
160
150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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6133. 4
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6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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6161. 4
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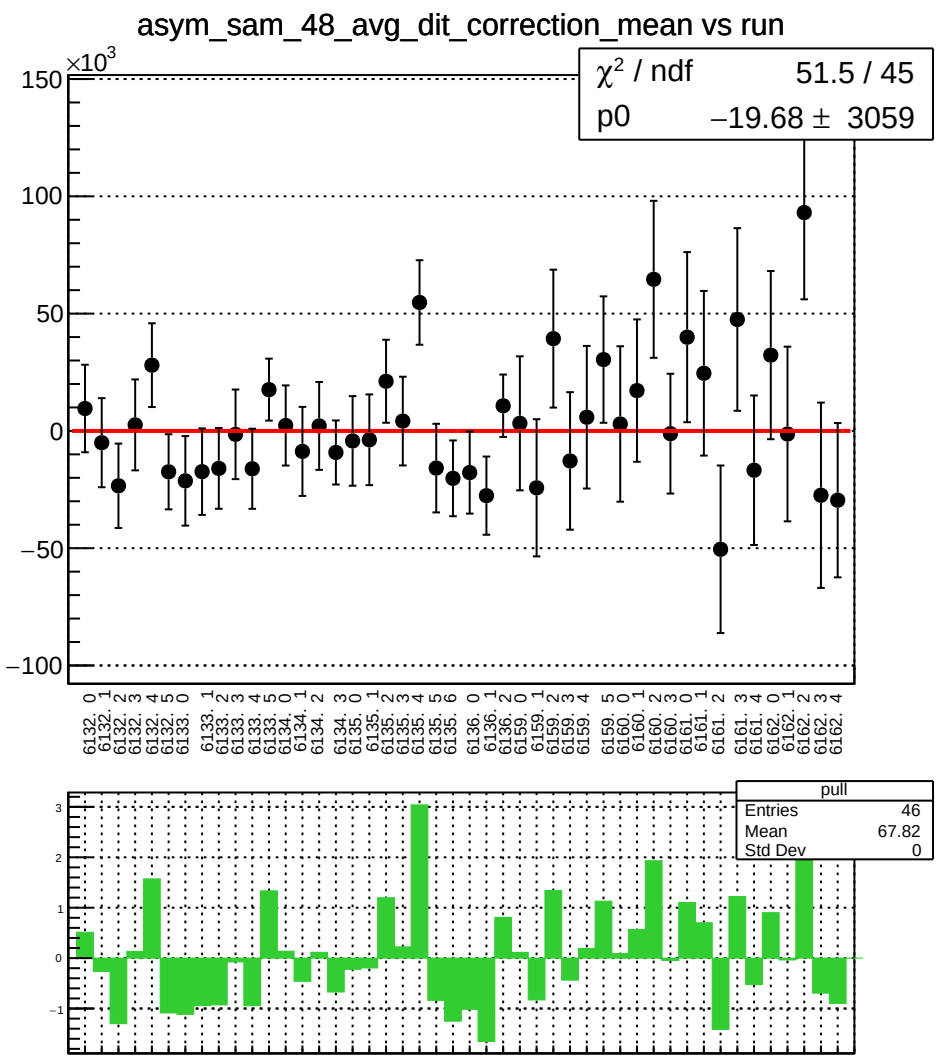
6162. 4


asym_sam_48_avg_dit_correction_mean vs run
×10^3
χ² / ndf 51.5 / 45
p0 −19.68 ± 3059
150
100
50
0
−50
−100
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6132. 1
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6132. 3
6132. 4
6132. 5
6133. 0
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6136. 0
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6136. 2
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6160. 0
6160. 1
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6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
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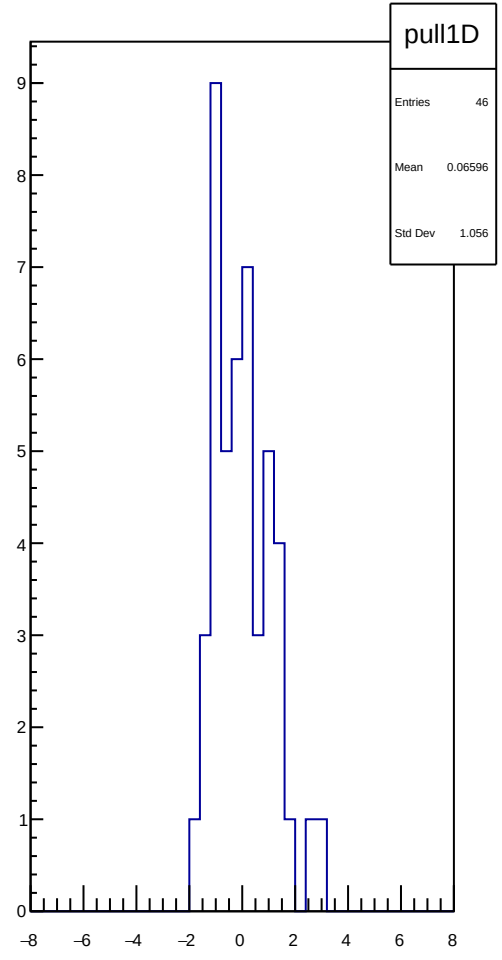
6162. 3
6162. 4
pull
Entries 46
Mean 67.82
Std Dev 0
3
2
1
0
−1


pull1D
Entries 46
Mean 0.06596
Std Dev 1.056
9
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2
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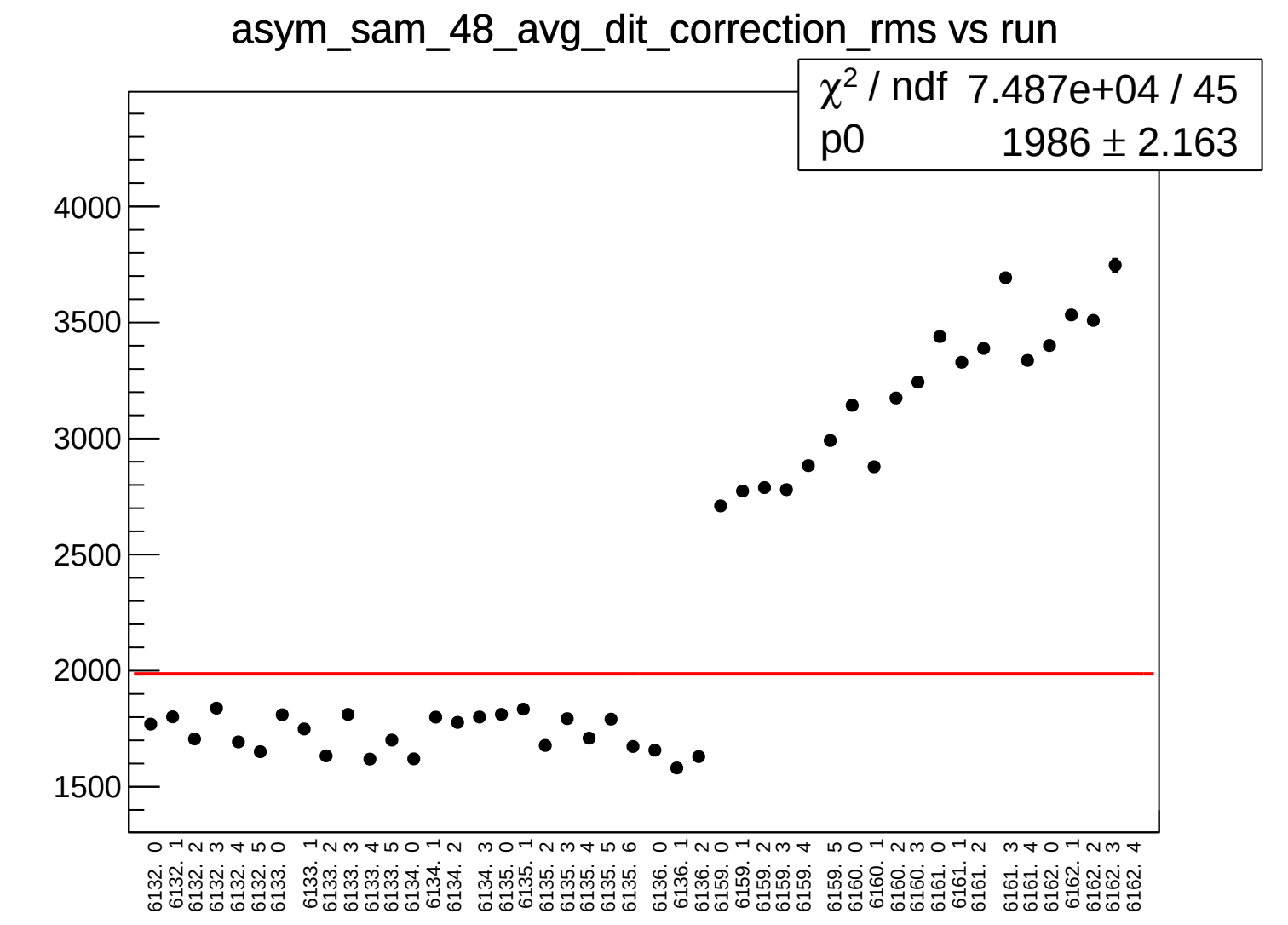
asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 7.487e+04 / 45
p0 1986 ± 2.163
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3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 1
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6135. 3
6135. 4
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6135. 6
6136. 0
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6136. 2
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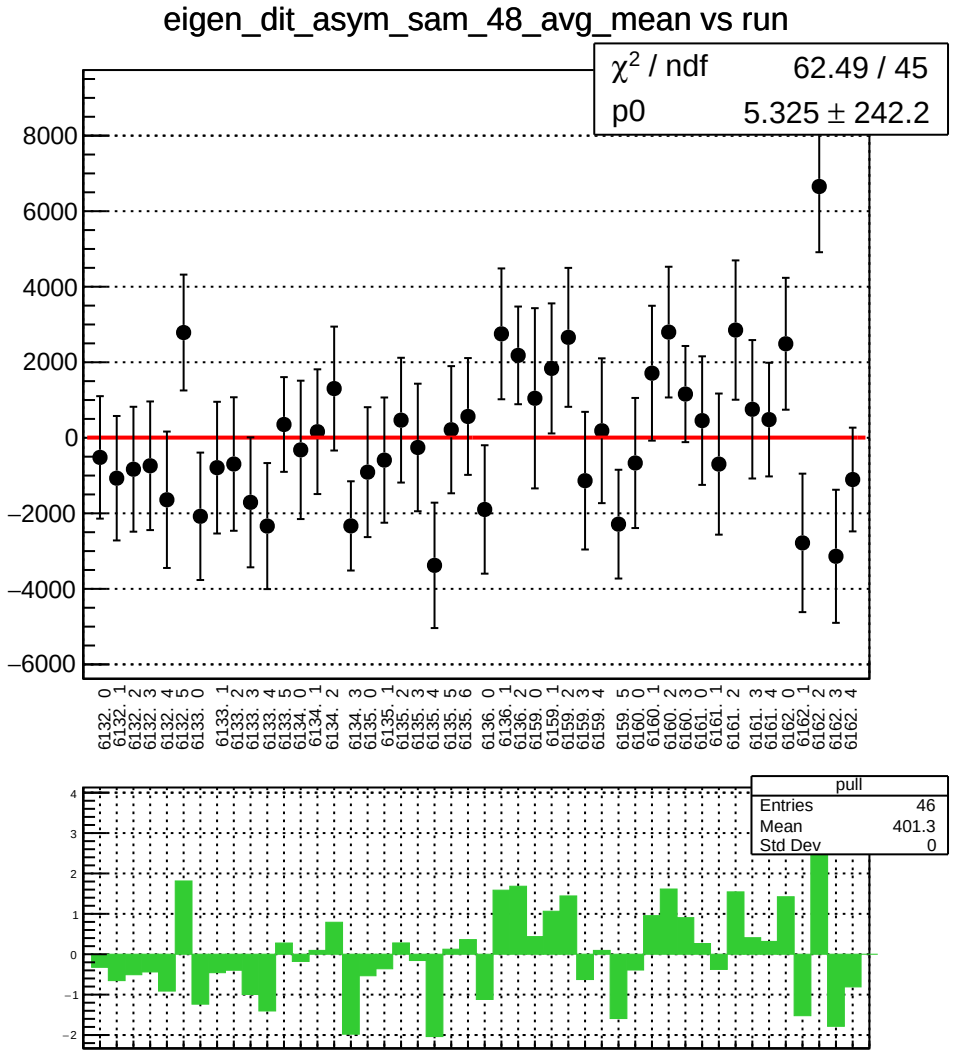
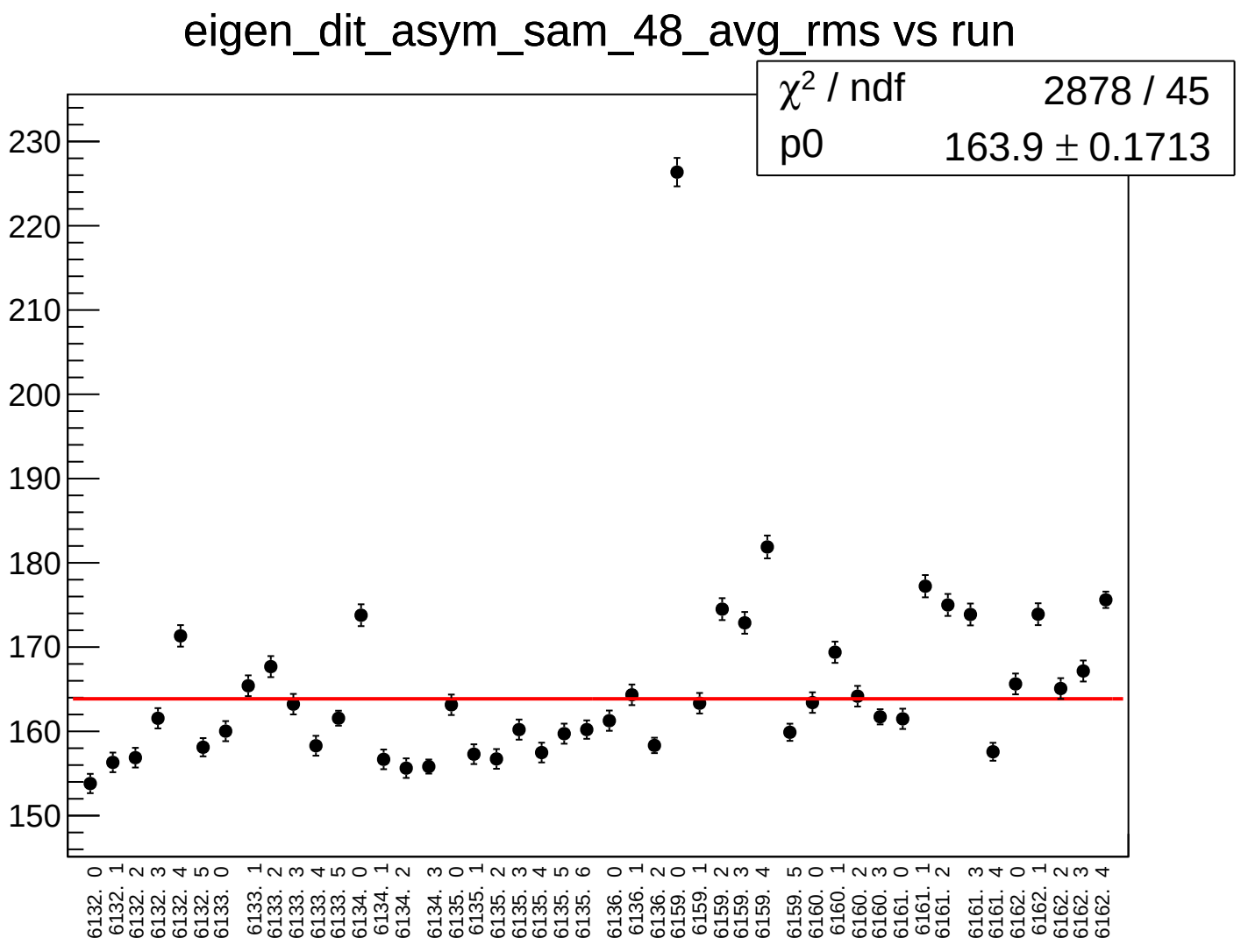
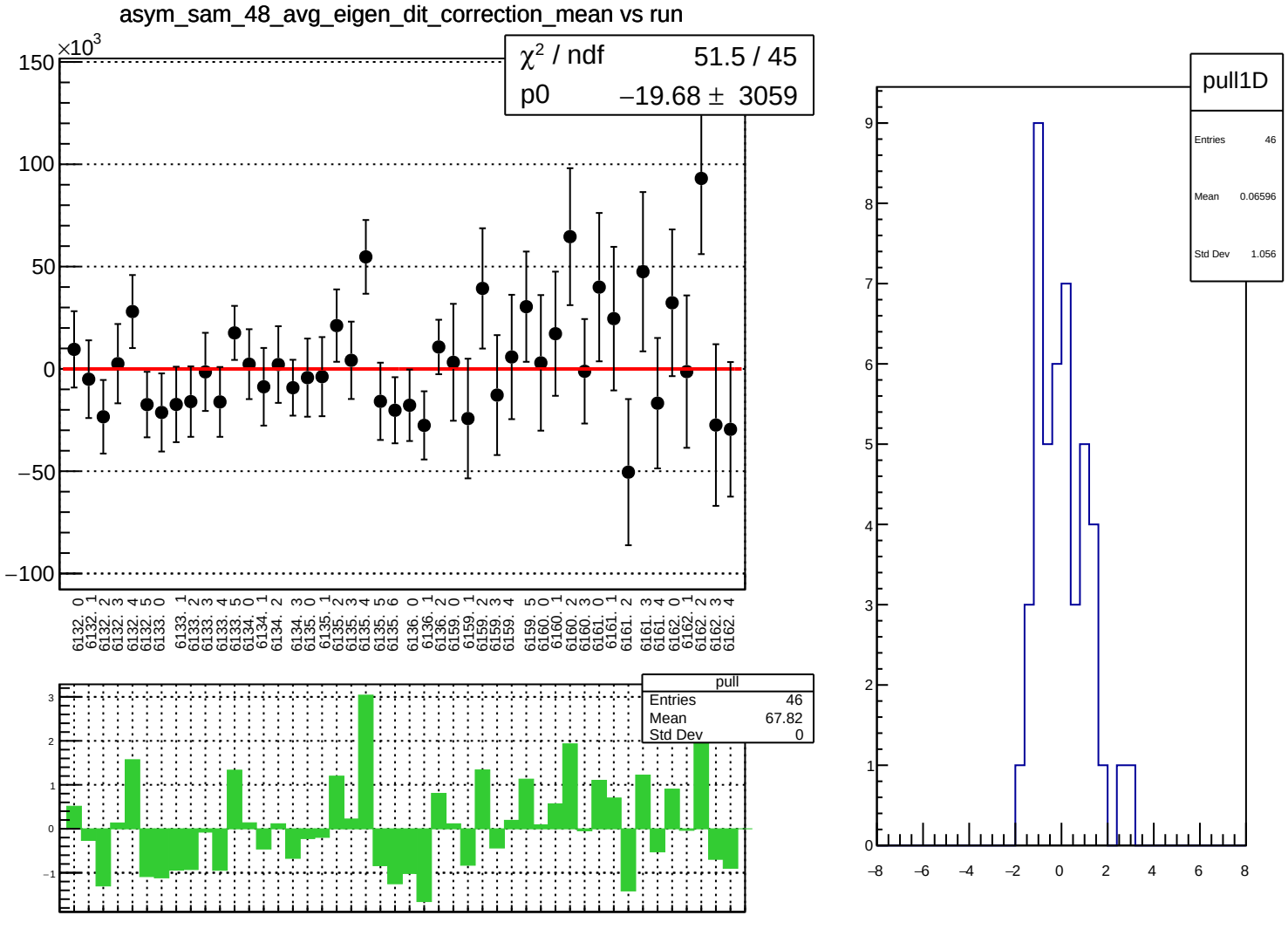
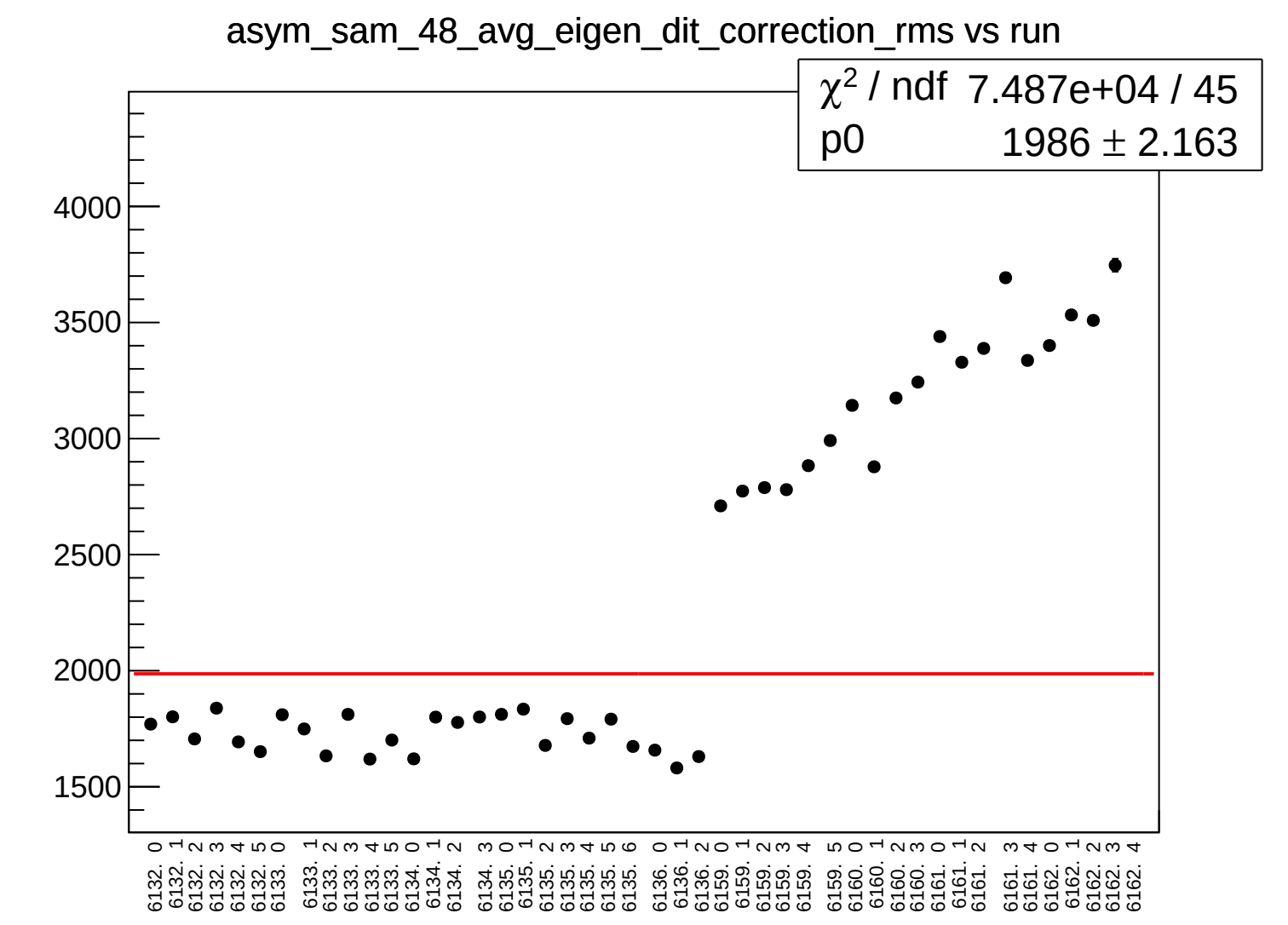
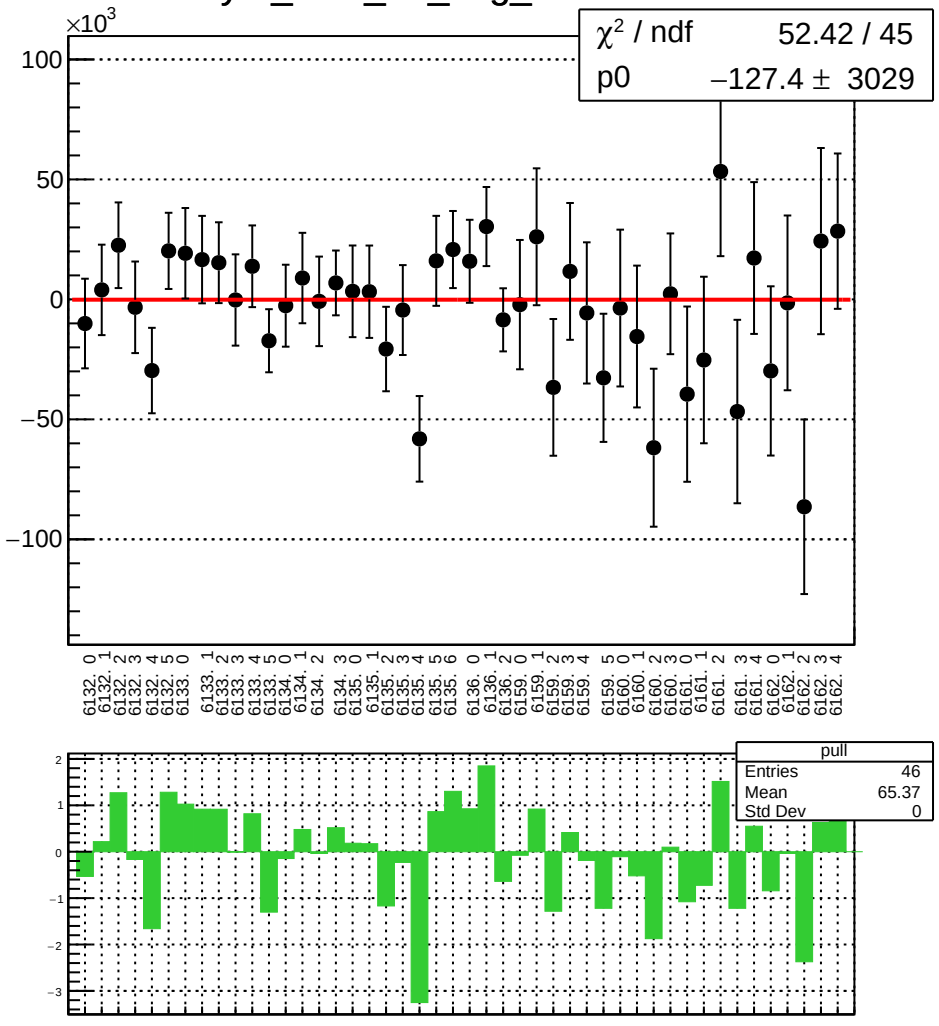
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

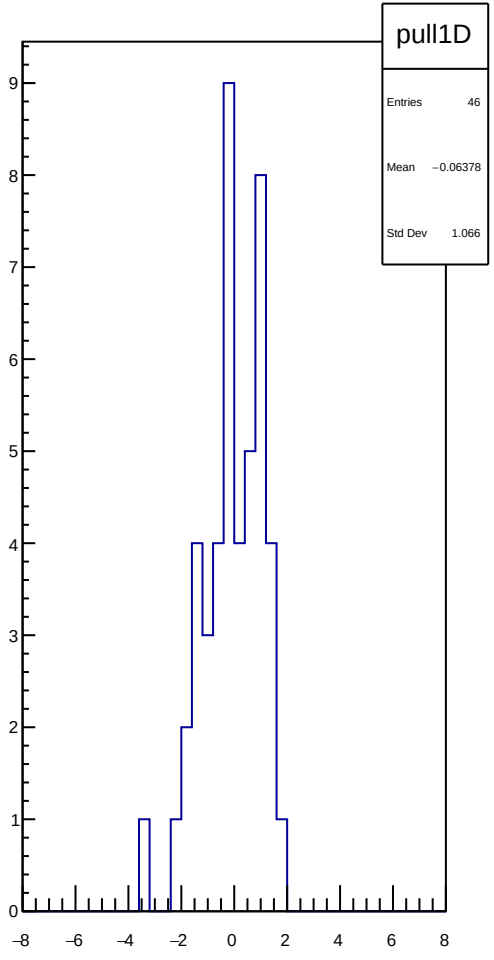

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 62.49 / 45
p0 5.325 ± 242.2
8000
6000
4000
2000
0
−2000
−4000
−6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 401.3
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.01134
Std Dev 1.165
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

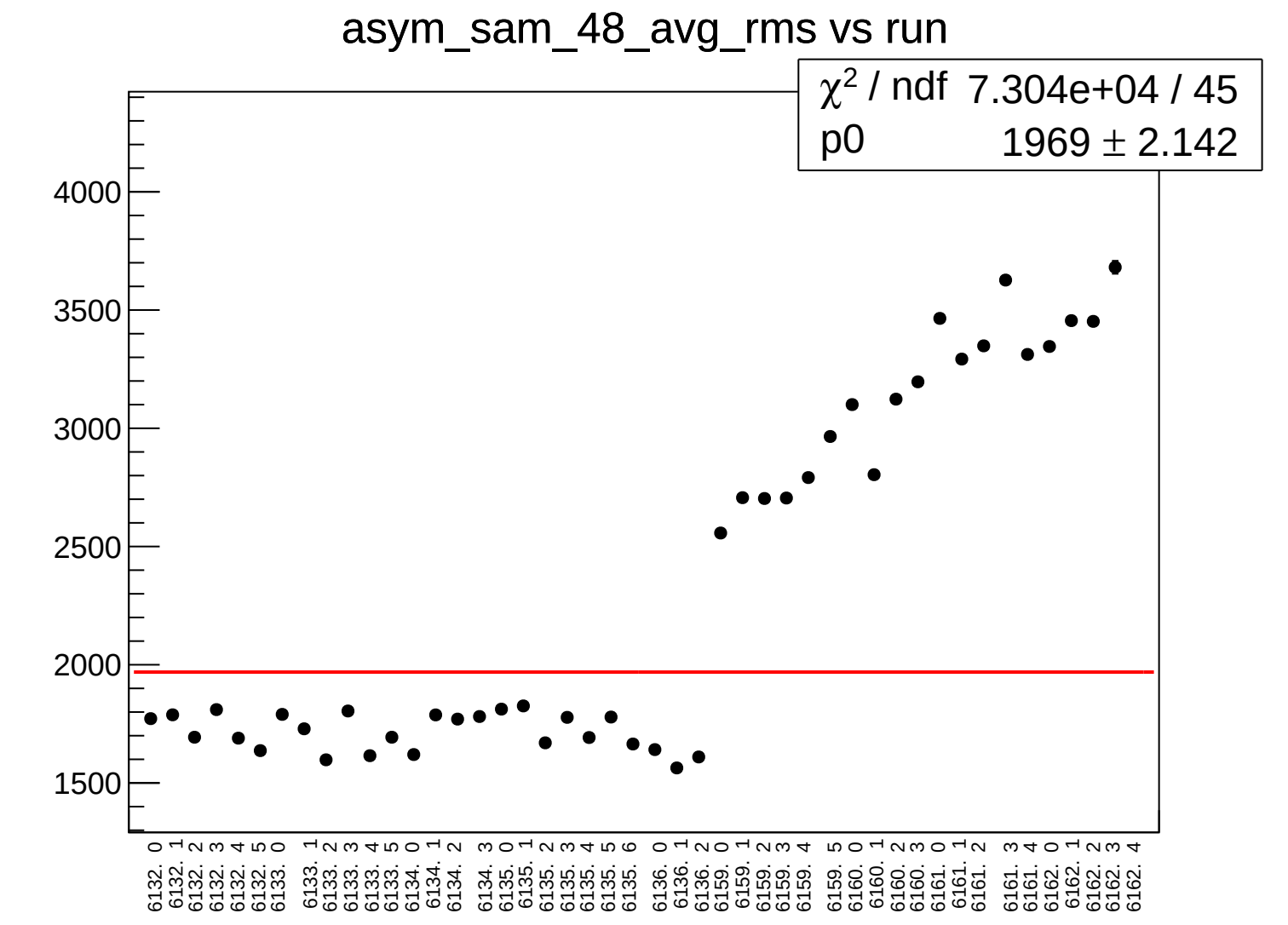

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 2878 / 45
p0 163.9 ± 0.1713
230
220
210
200
190
180
170
160
150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

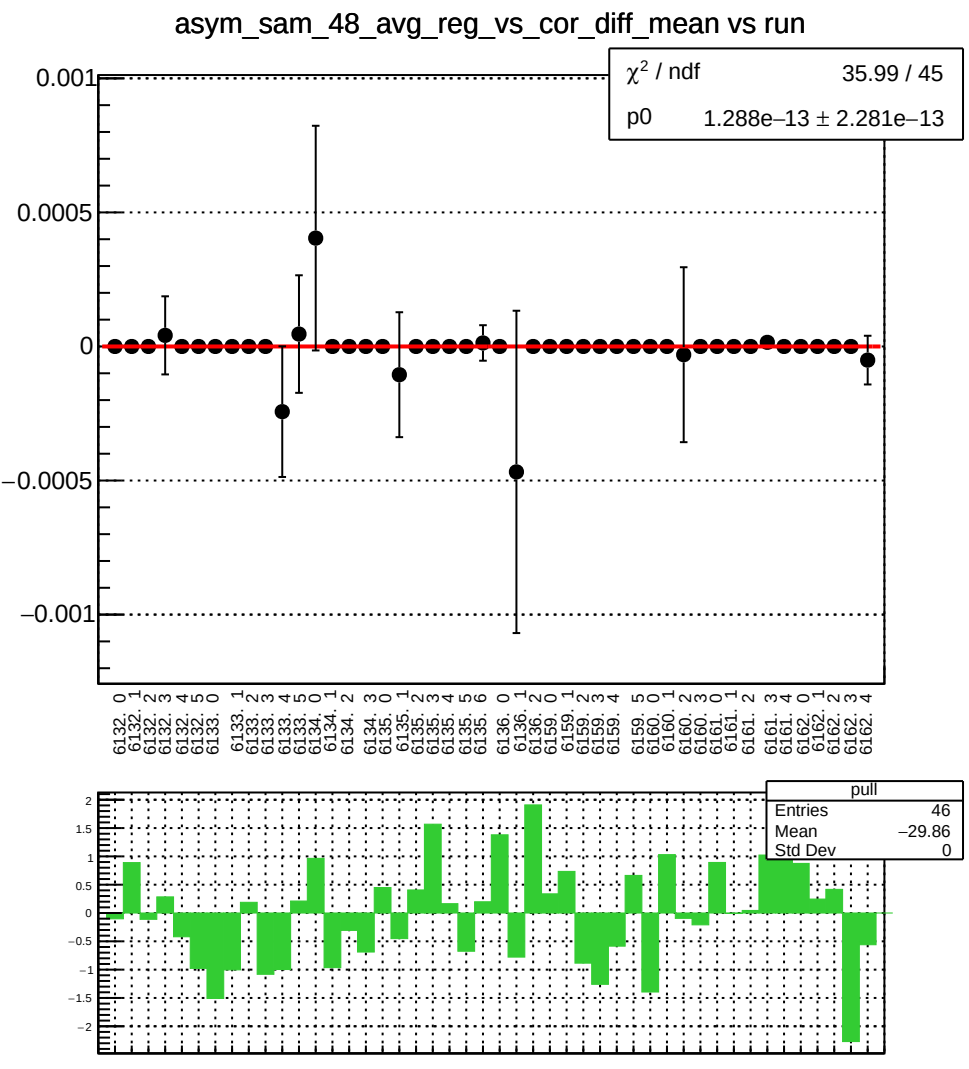

asym_sam_48_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 51.5 / 45
p0 −19.68 ± 3059
150
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 67.82
Std Dev 0
3
2
1
0
−1
pull1D
Entries 46
Mean 0.06596
Std Dev 1.056
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

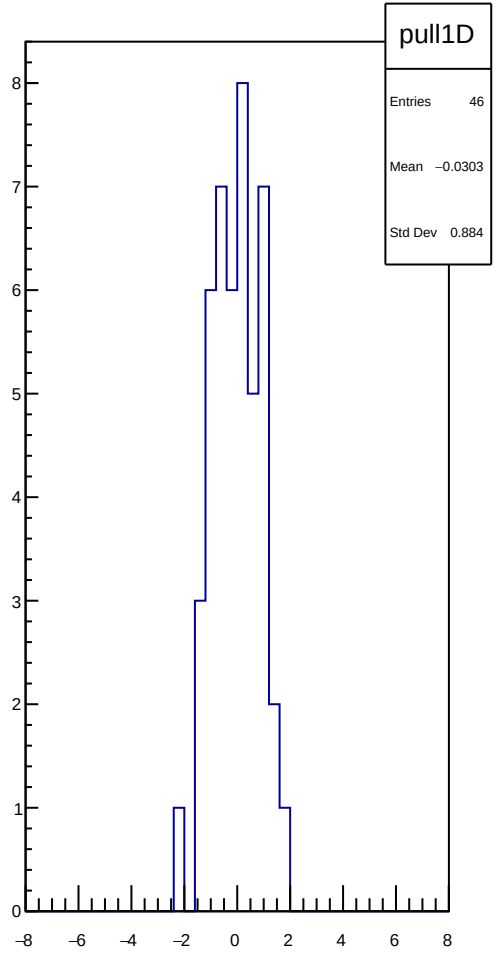

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 7.487e+04 / 45
p0 1986 ± 2.163
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

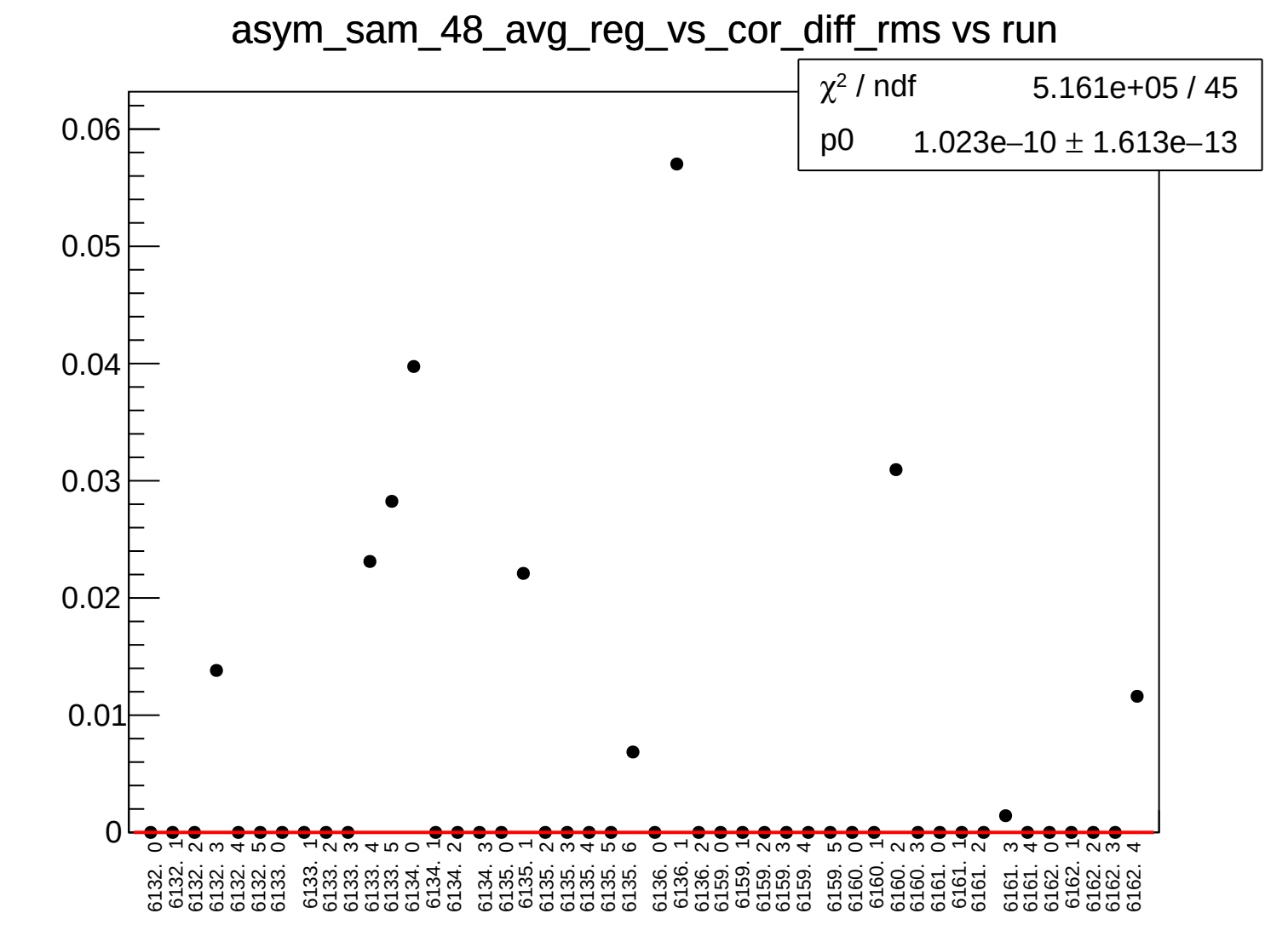

asym_sam_48_avg_mean vs run
×10^3
χ² / ndf 52.42 / 45
p0 −127.4 ± 3029
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 65.37
Std Dev 0
2
1
0
−1
−2
−3

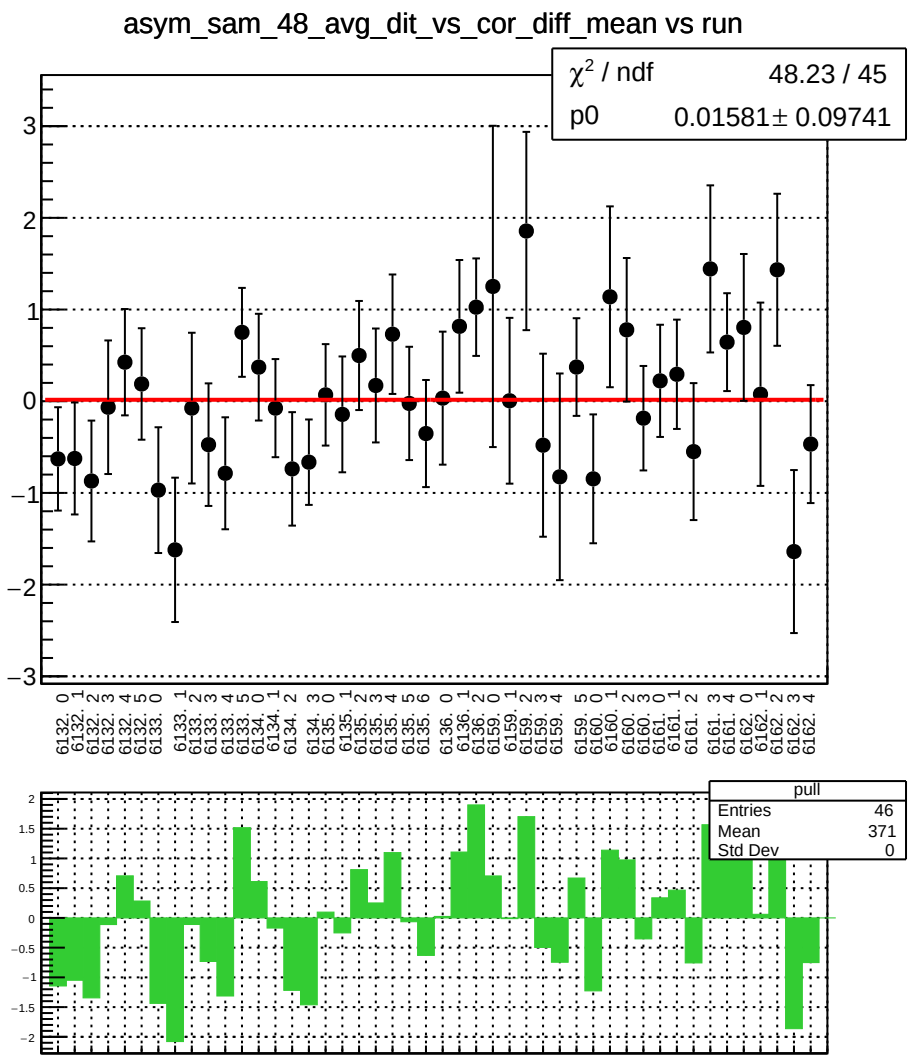

pull1D
Entries 46
Mean −0.06378
Std Dev 1.066
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

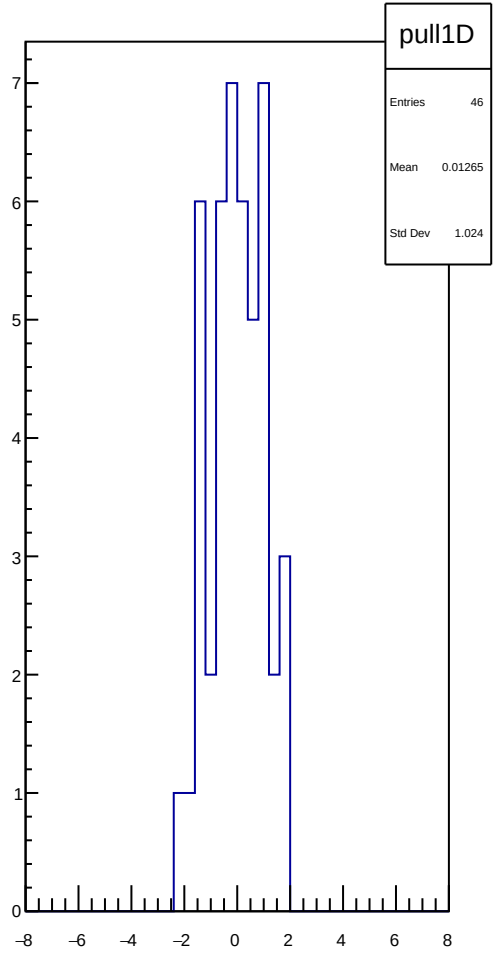

asym_sam_48_avg_rms vs run
χ² / ndf 7.304e+04 / 45
p0 1969 ± 2.142
4000
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

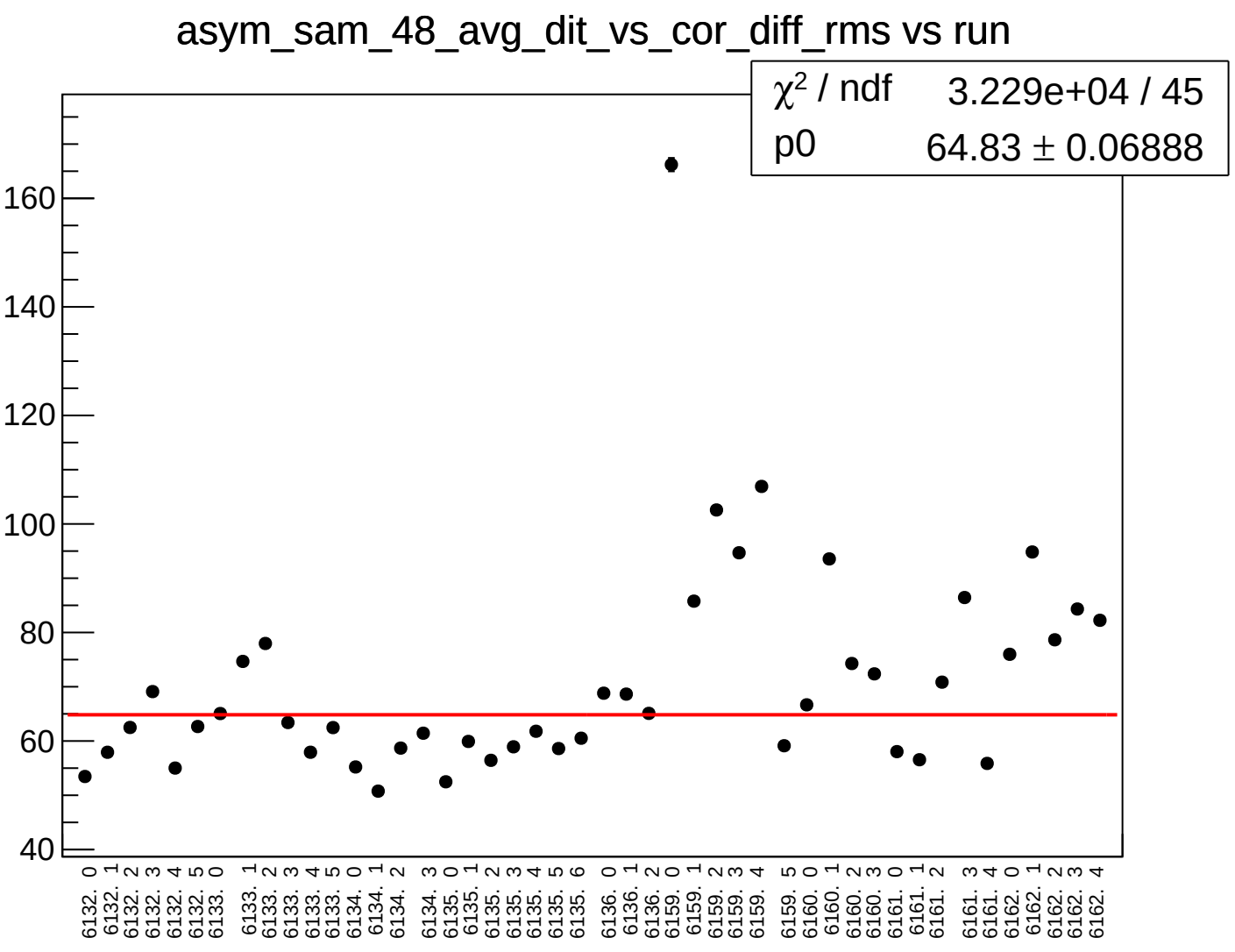

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 35.99 / 45
p0 1.288e−13 ± 2.281e−13
0.001
0.0005
0
−0.0005
−0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −29.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean −0.0303
Std Dev 0.884
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.161e+05 / 45
p0 1.023e−10 ± 1.613e−13
0.06
0.05
0.04
0.03
0.02
0.01
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 48.23 / 45
p0 0.01581± 0.09741
pull
Entries 46
Mean 371
Std Dev 0


pull1D
Entries 46
Mean 0.01265
Std Dev 1.024


asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.229e+04 / 45
p0 64.83 ± 0.06888
160
140
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
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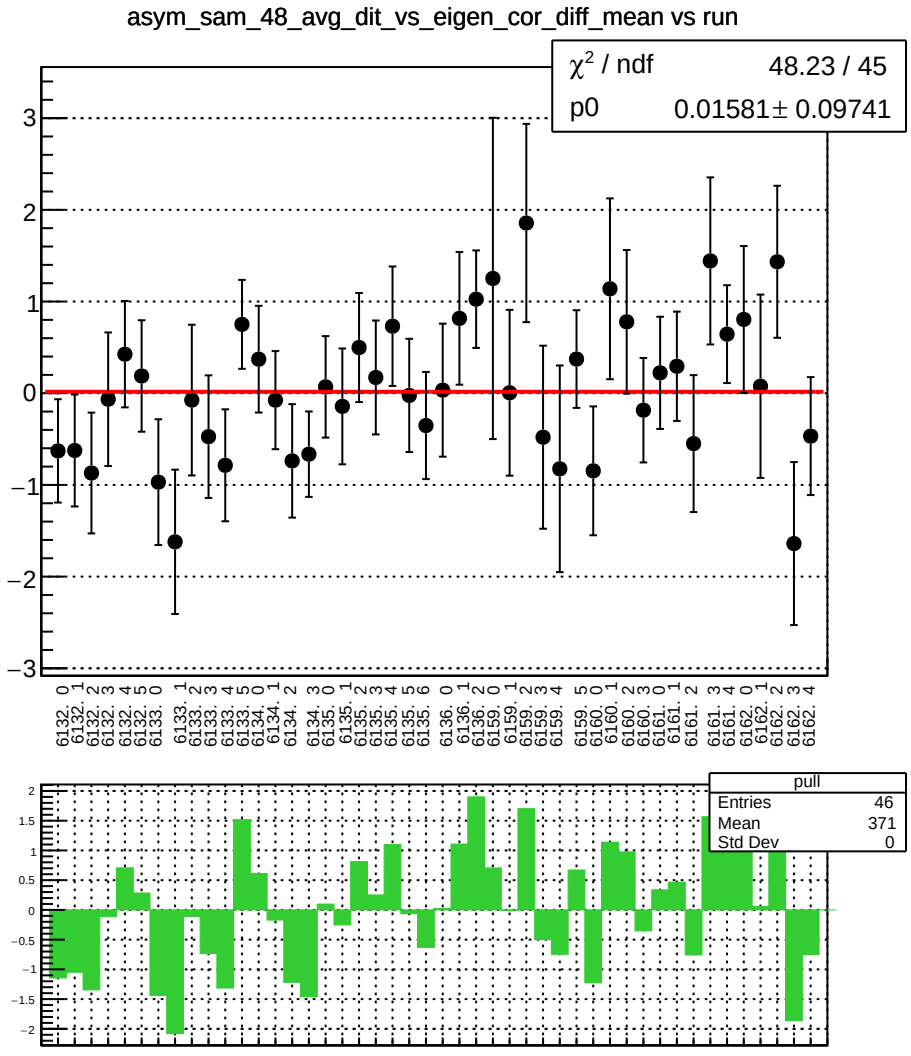
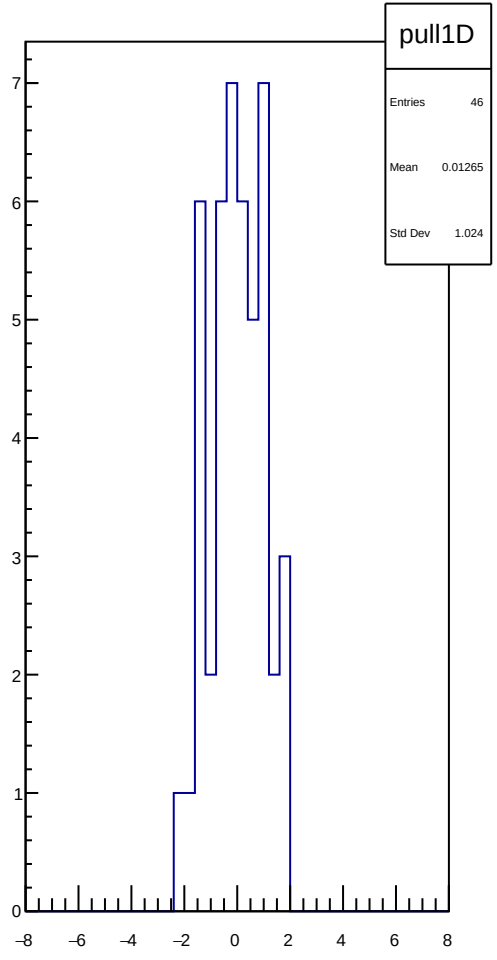
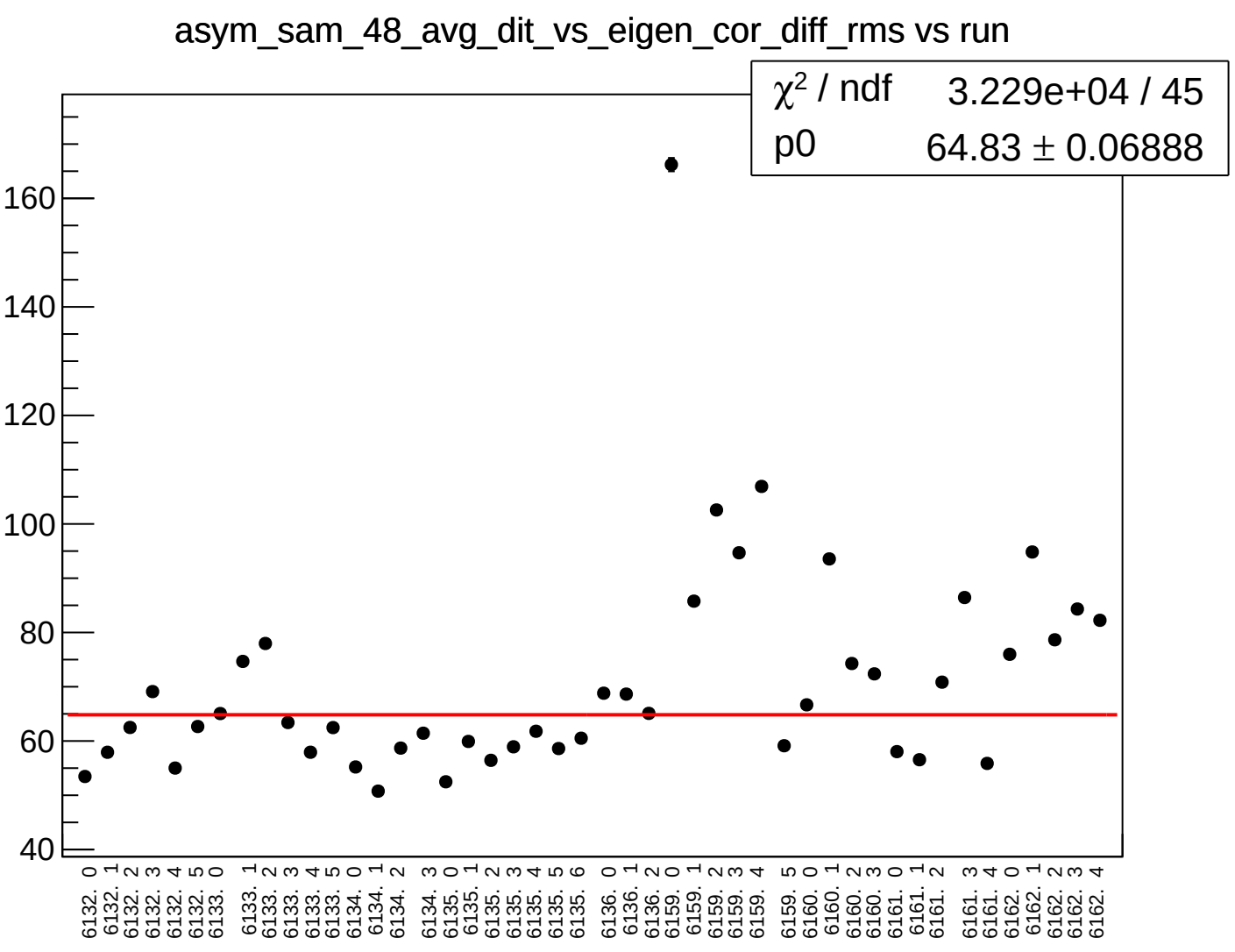
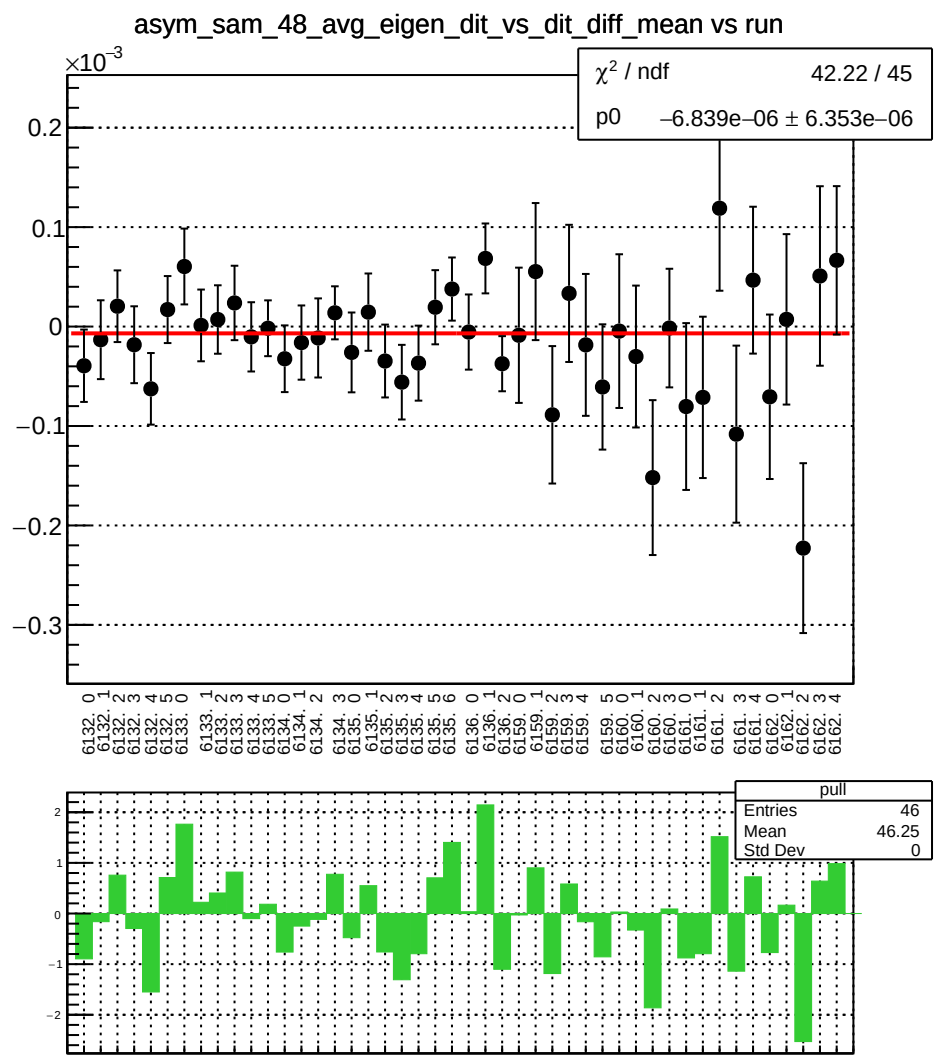
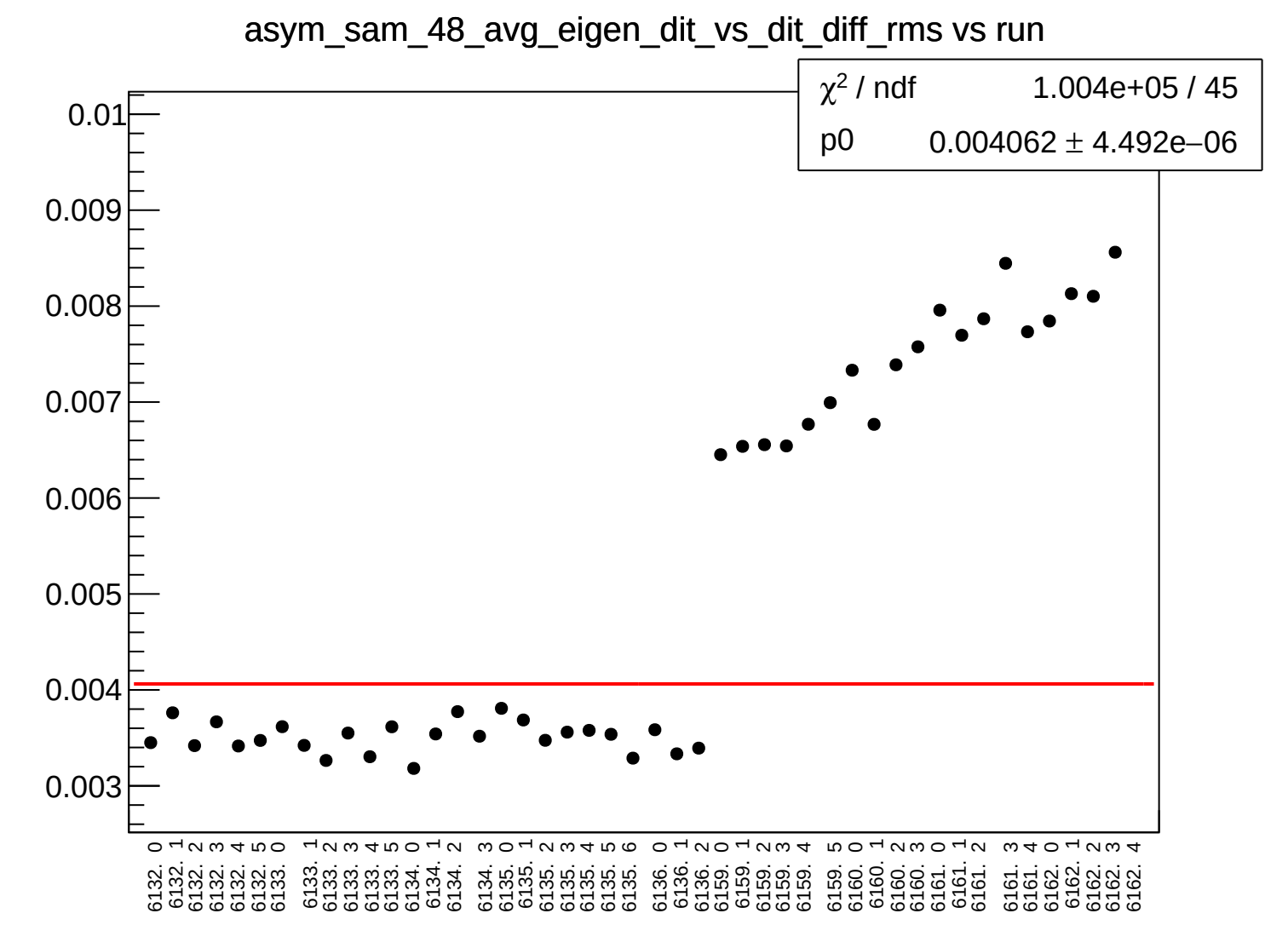
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

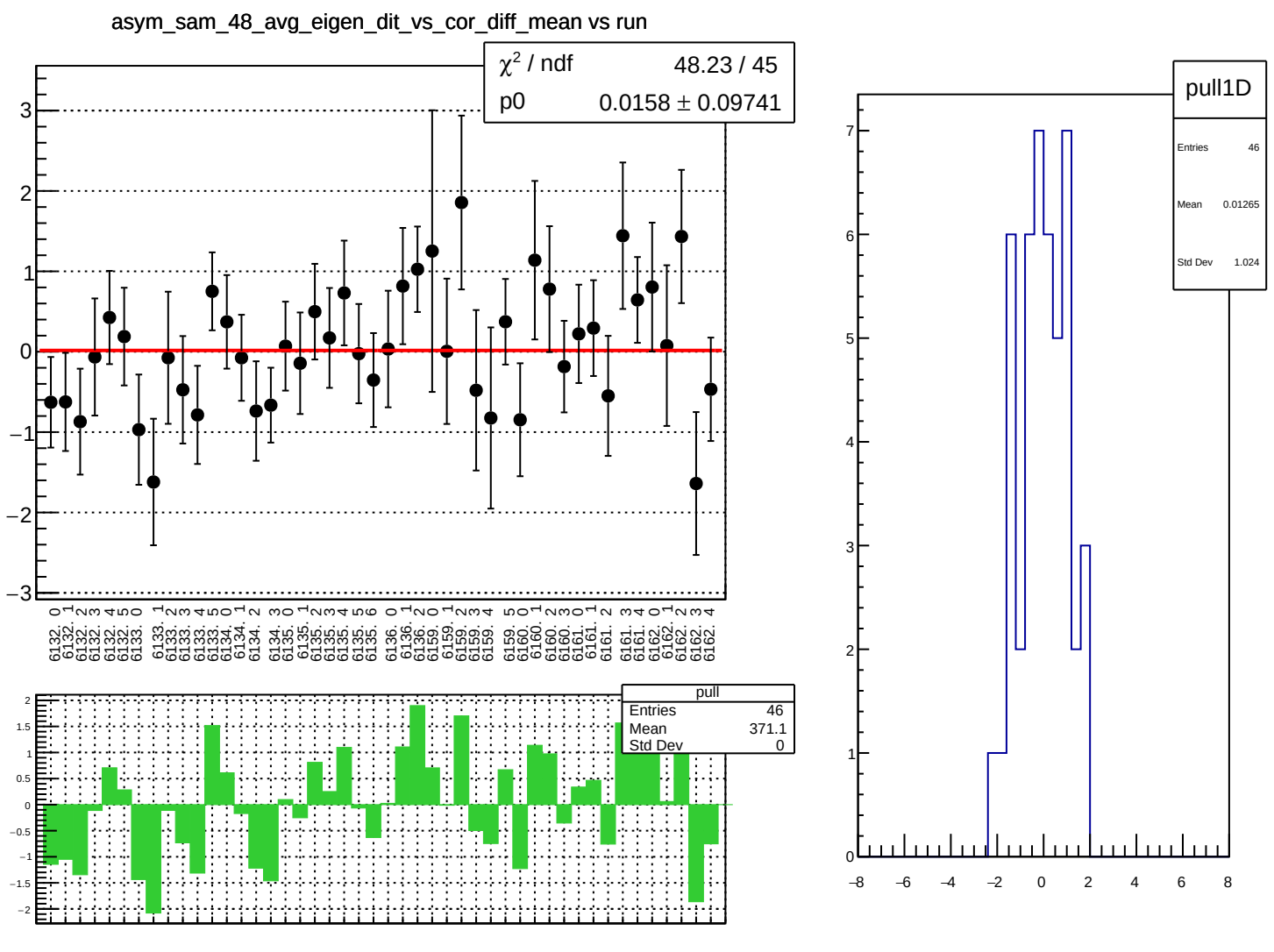

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.23 / 45
p0 0.01581± 0.09741
pull
Entries 46
Mean 371
Std Dev 0

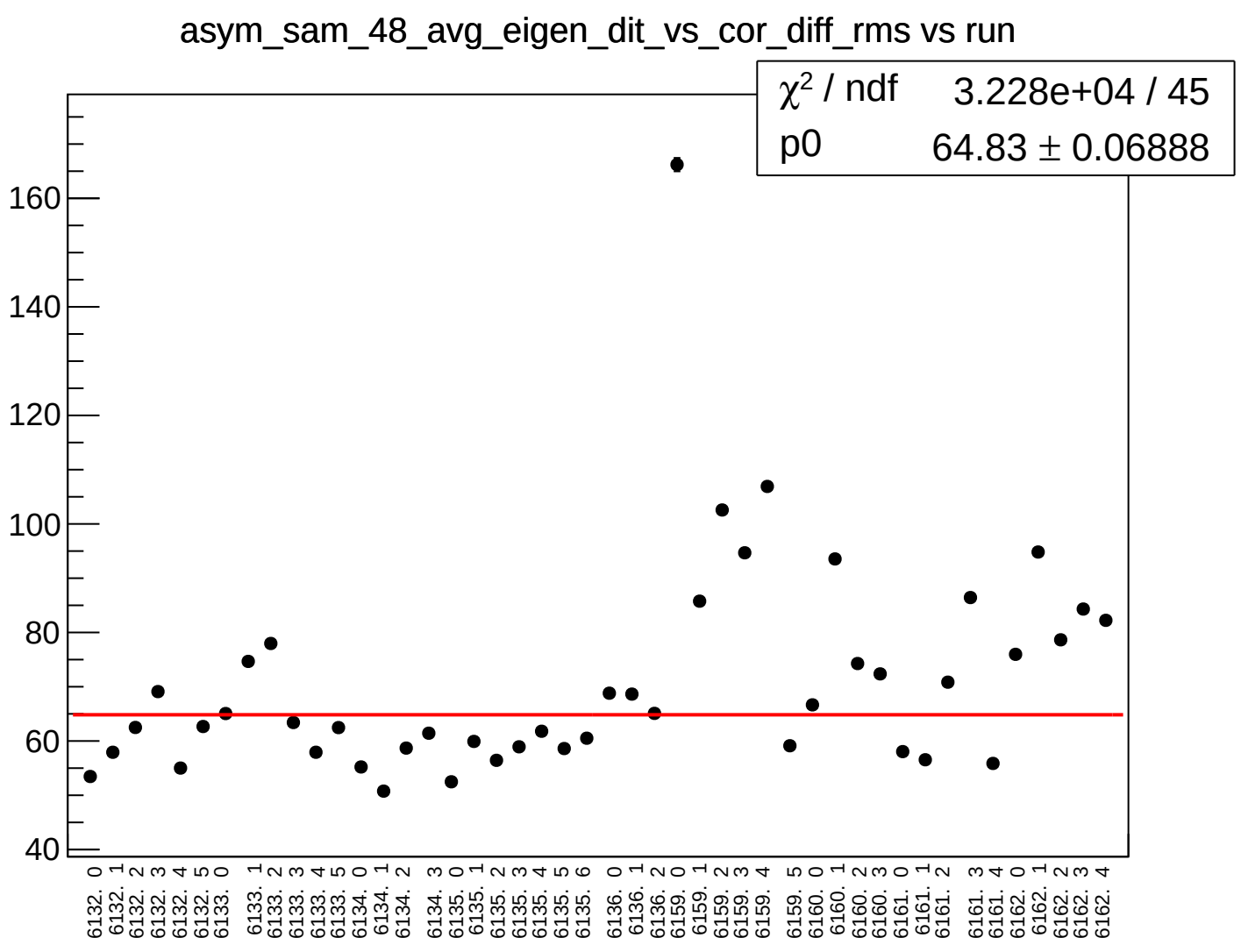

pull1D
Entries 46
Mean 0.01265
Std Dev 1.024

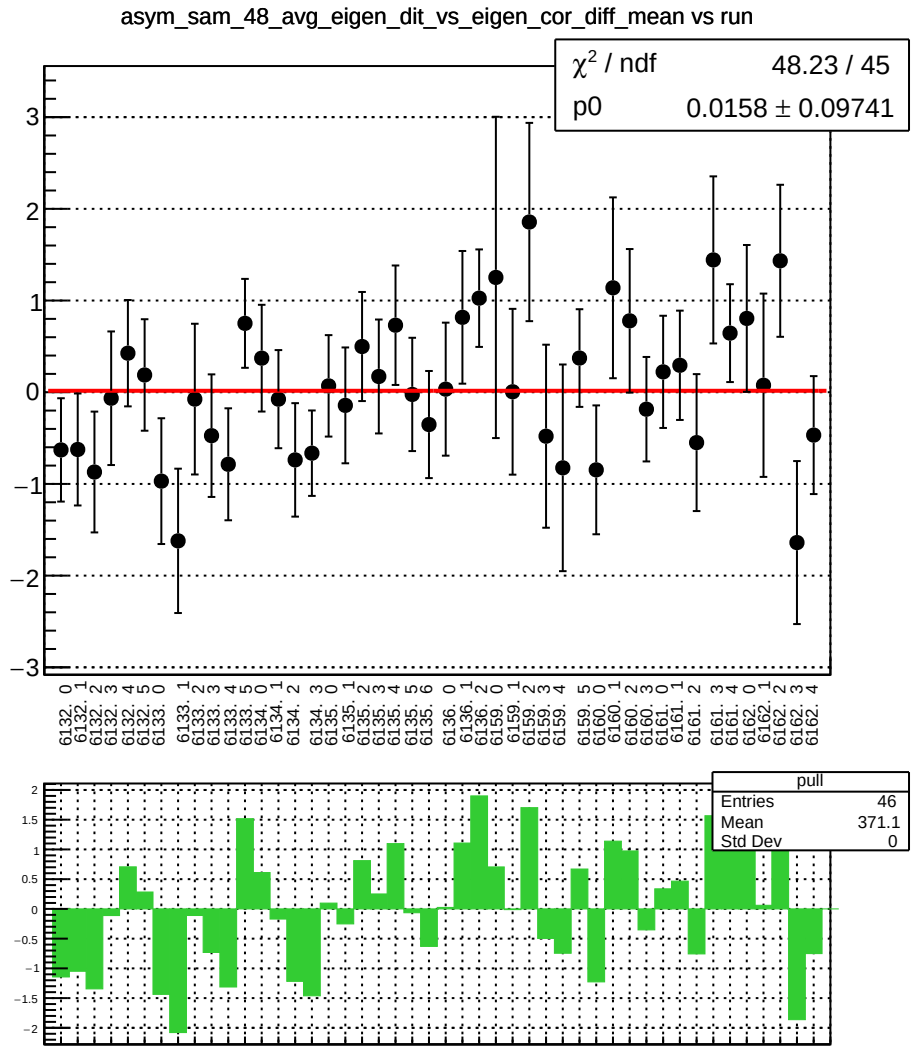

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.229e+04 / 45
p0 64.83 ± 0.06888
160
140
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

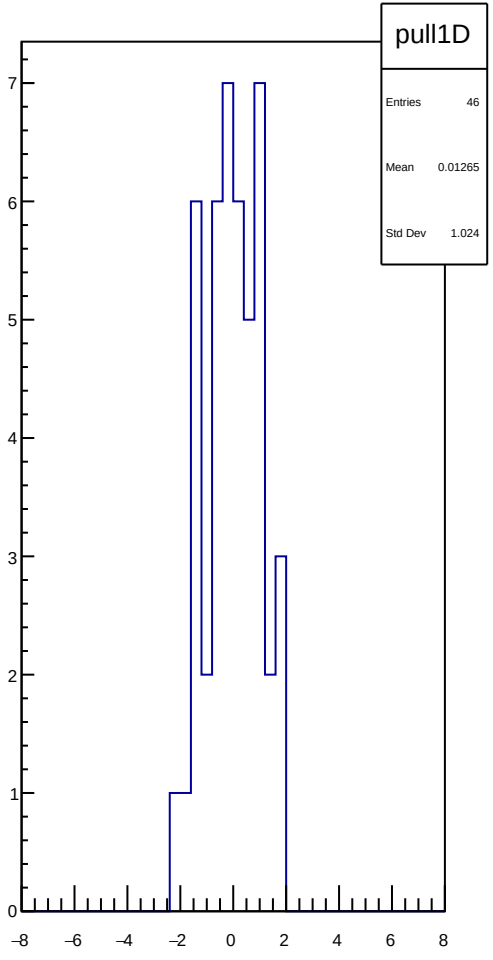

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 42.22 / 45
p0 −6.839e−06 ± 6.353e−06
0.2
0.1
0
−0.1
−0.2
−0.3
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 46.25
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.06502
Std Dev 0.9559
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

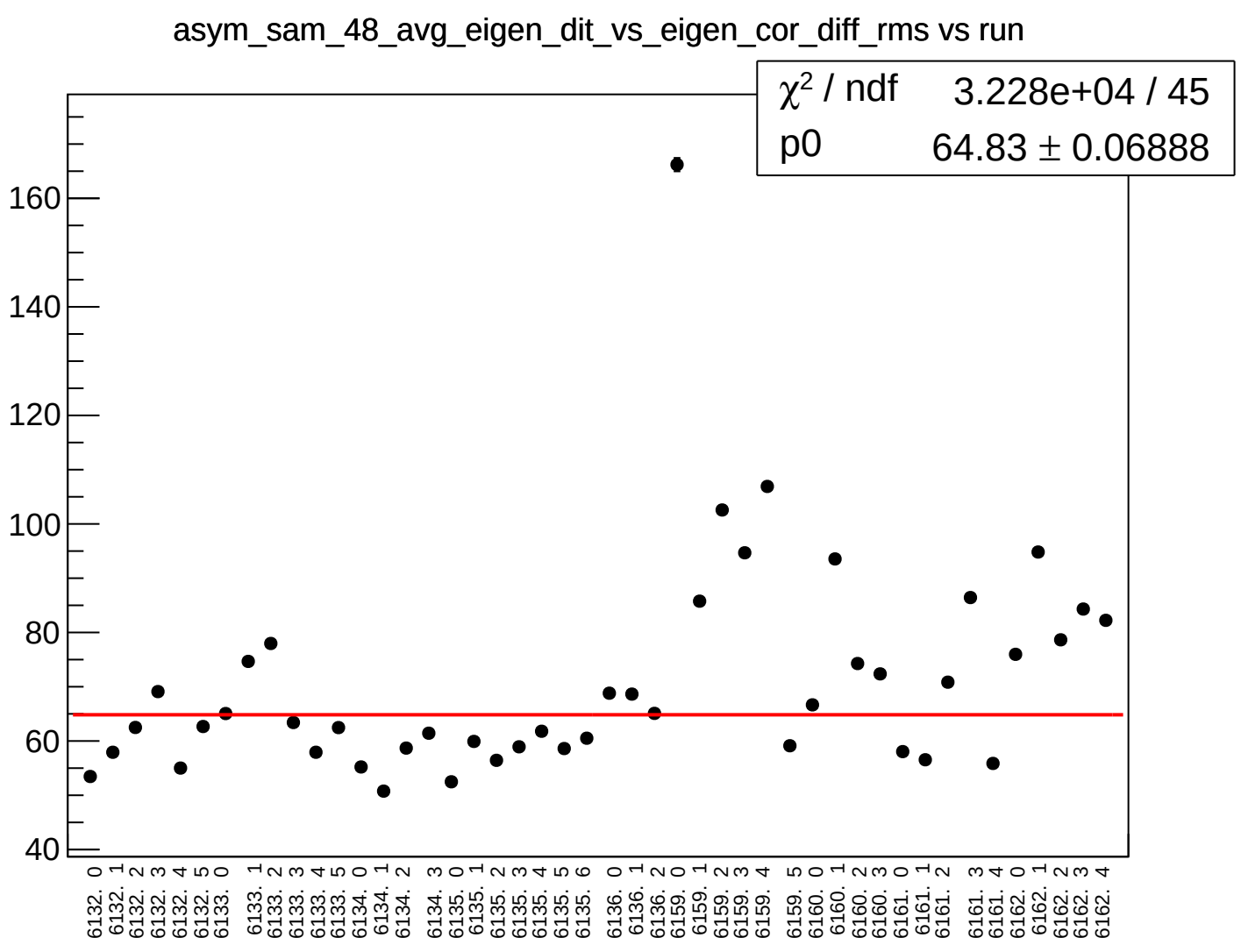

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ2 / ndf 1.004e+05 / 45
p0 0.004062 ± 4.492e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

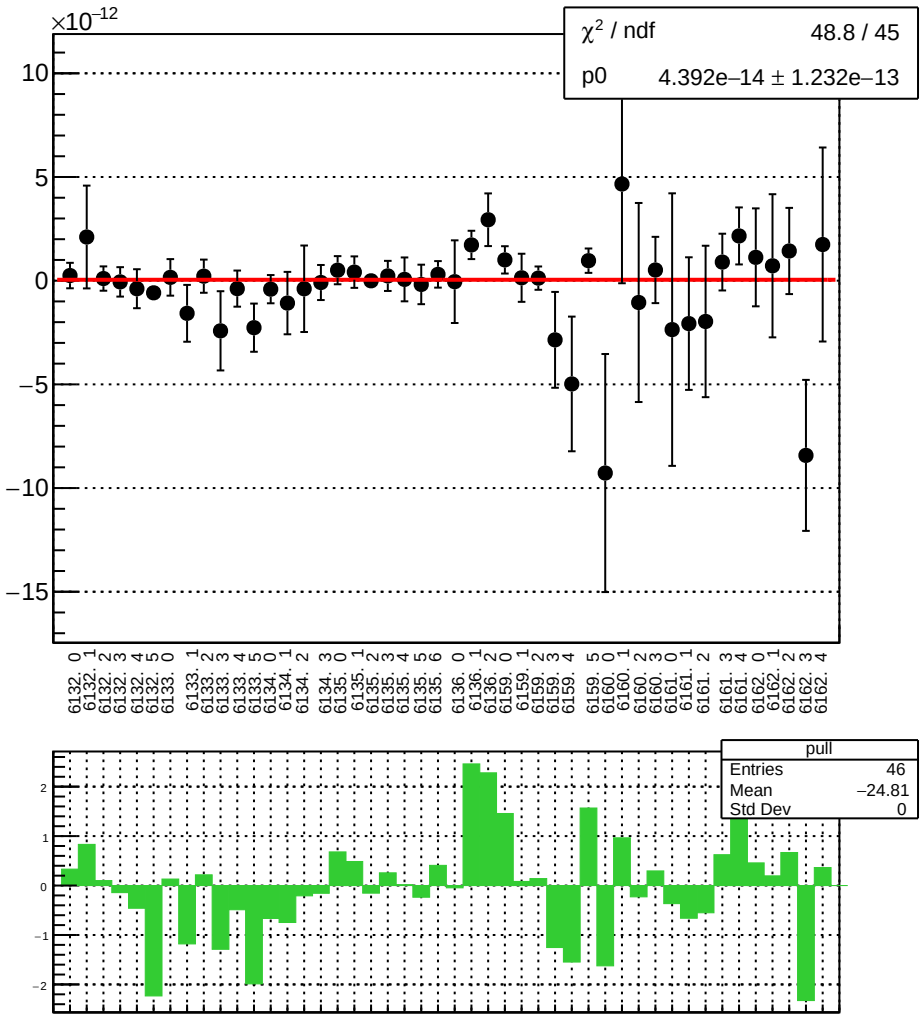

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 48.23 / 45
p0 0.0158 ± 0.09741
pull
Entries 46
Mean 371.1
Std Dev 0
pull1D
Entries 46
Mean 0.01265
Std Dev 1.024

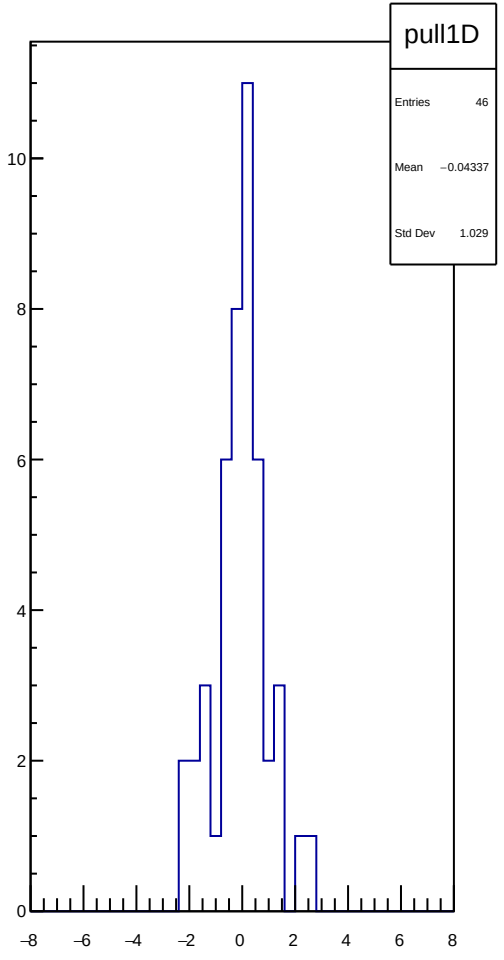

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.228e+04 / 45
p0 64.83 ± 0.06888
160
140
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

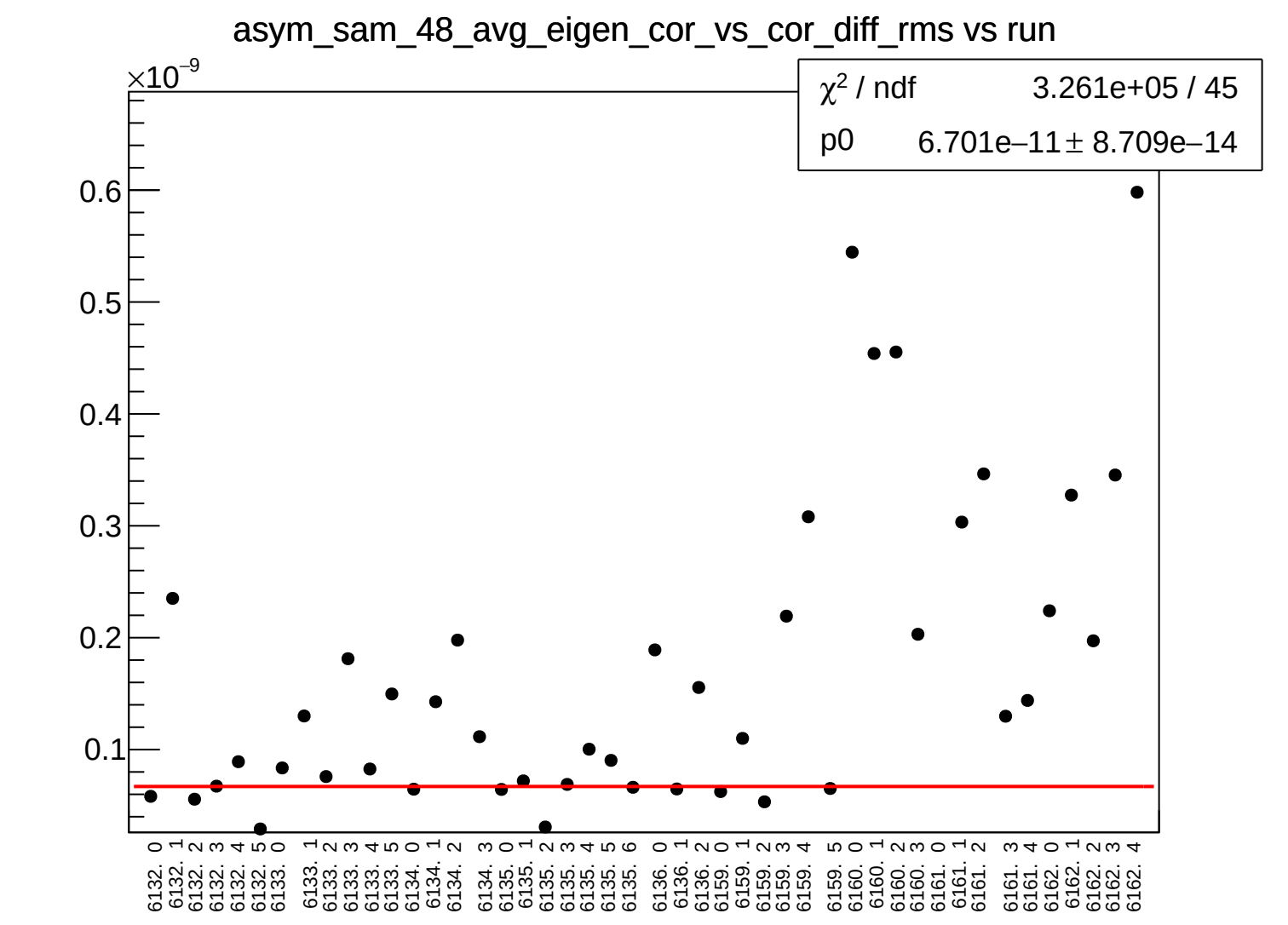

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.23 / 45
p0 0.0158 ± 0.09741
pull
Entries 46
Mean 371.1
Std Dev 0

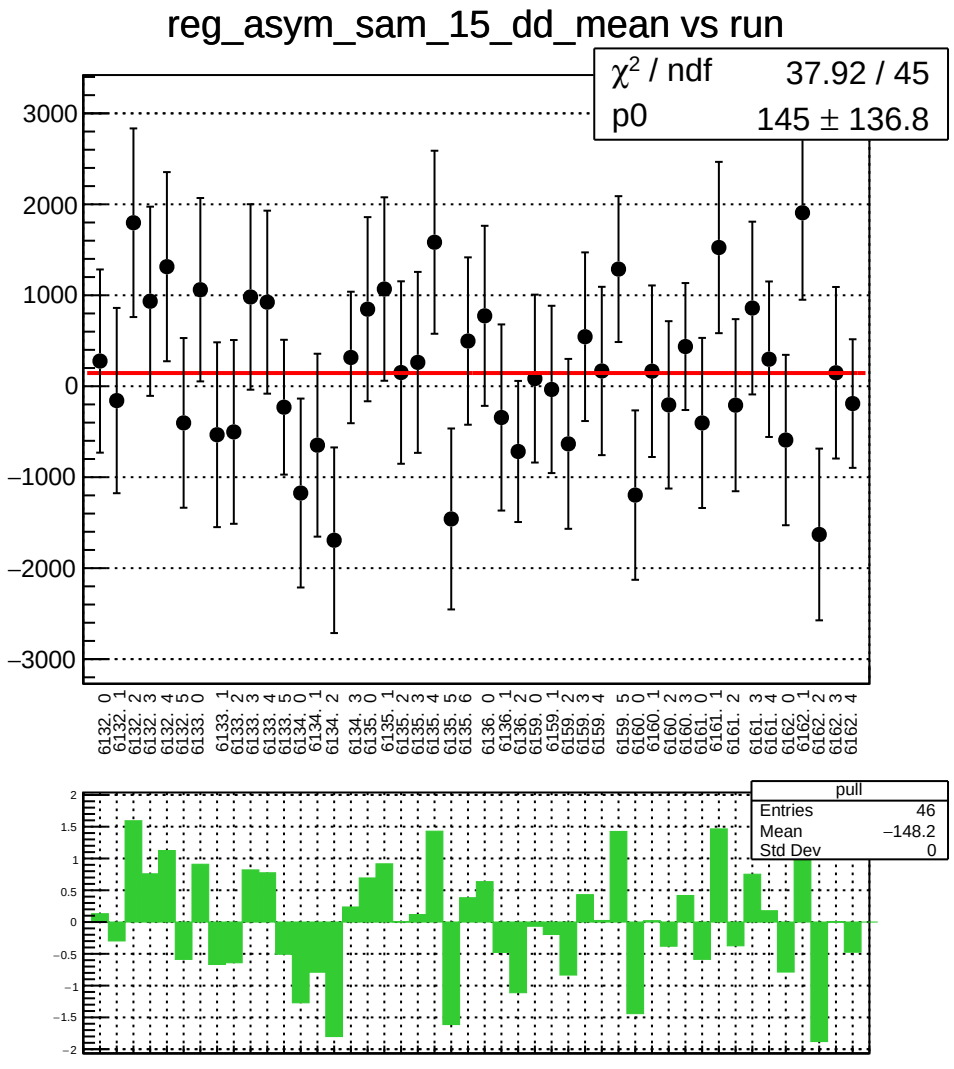

pull1D
Entries 46
Mean 0.01265
Std Dev 1.024

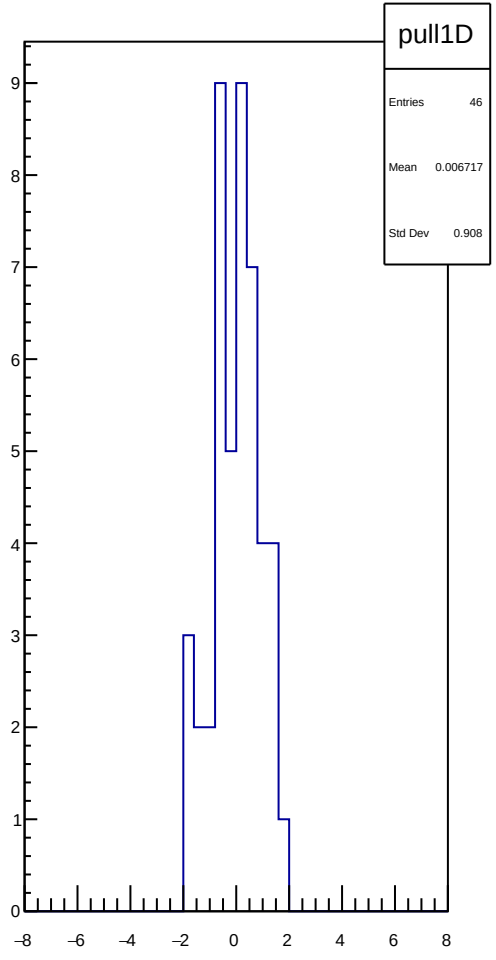

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.228e+04 / 45
p0 64.83 ± 0.06888
160
140
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

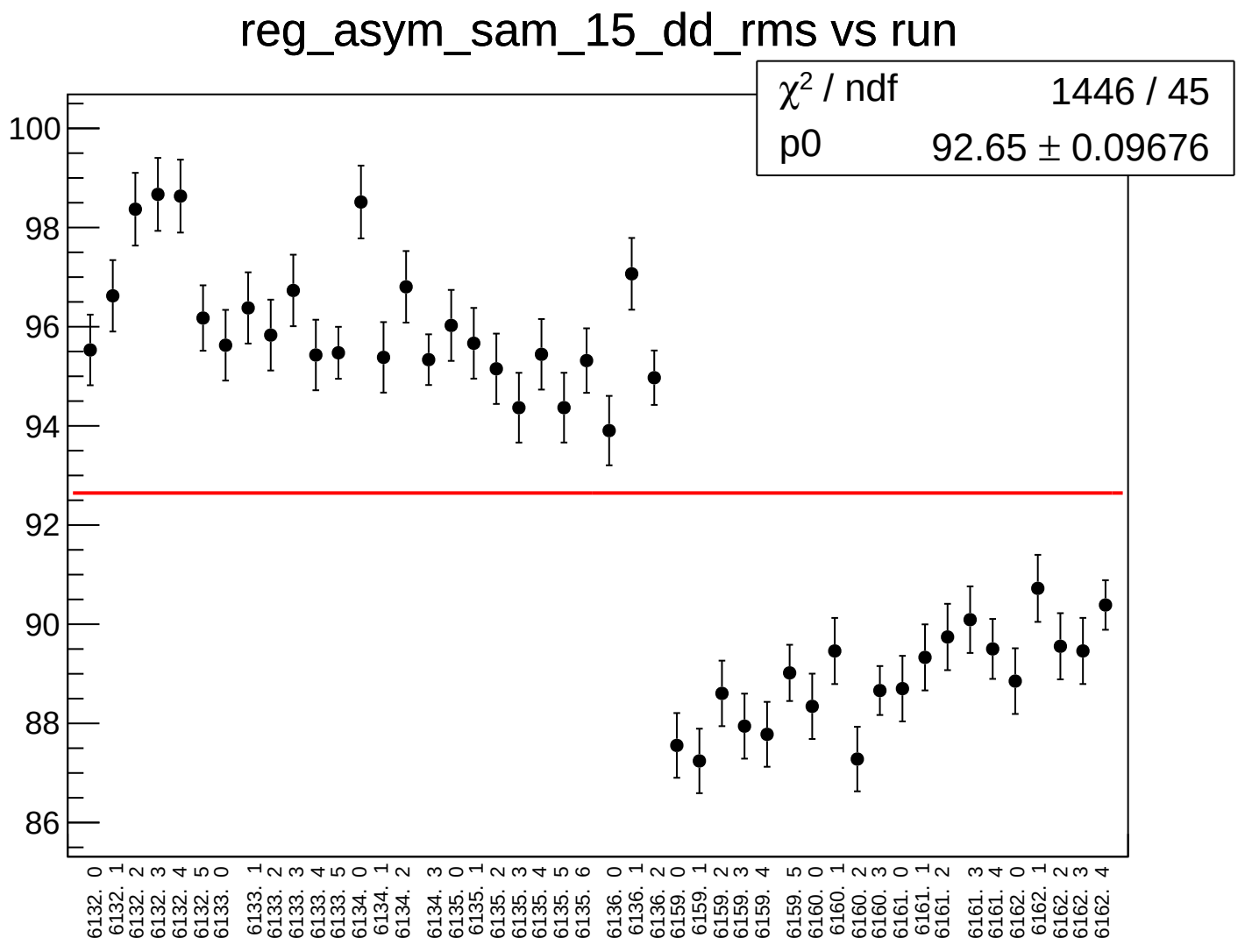

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 48.8 / 45
p0 4.392e−14 ± 1.232e−13
pull
Entries 46
Mean −24.81
Std Dev 0

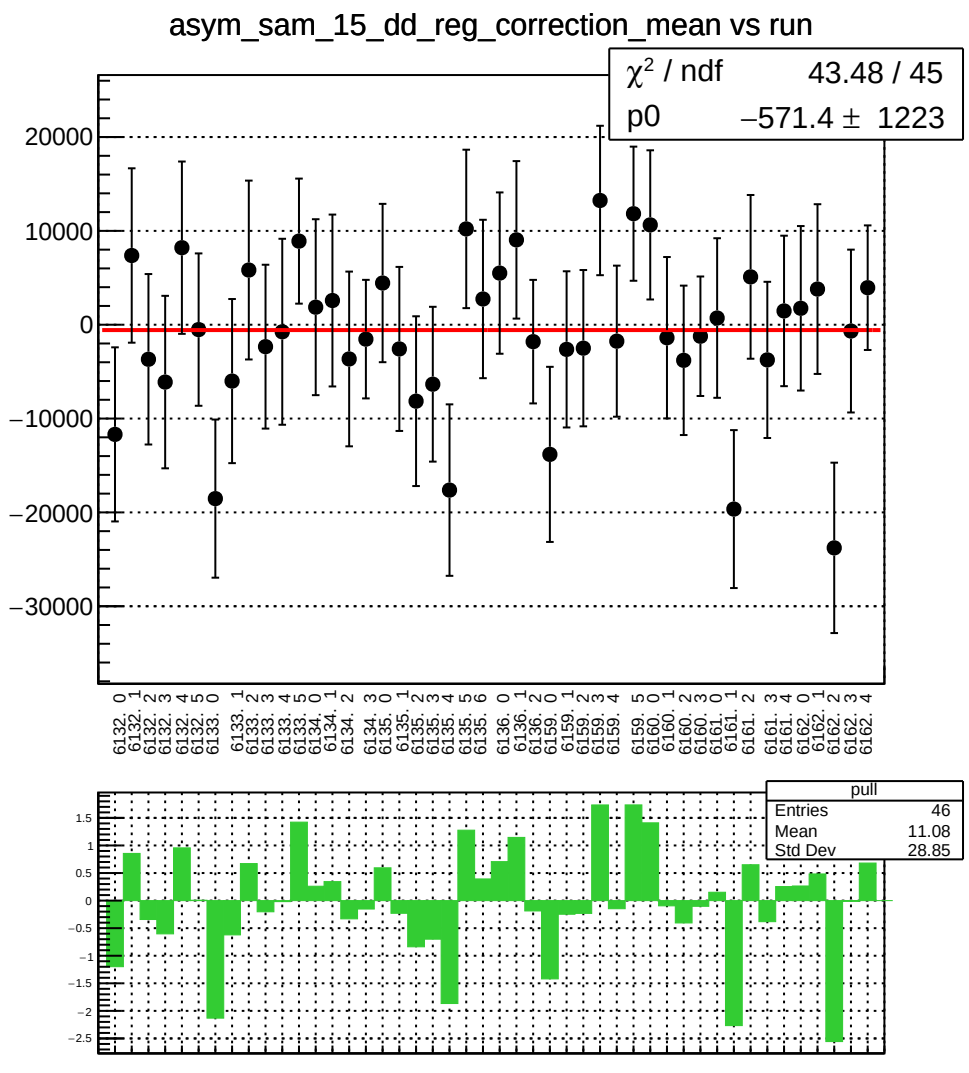

pull1D
Entries 46
Mean −0.04337
Std Dev 1.029

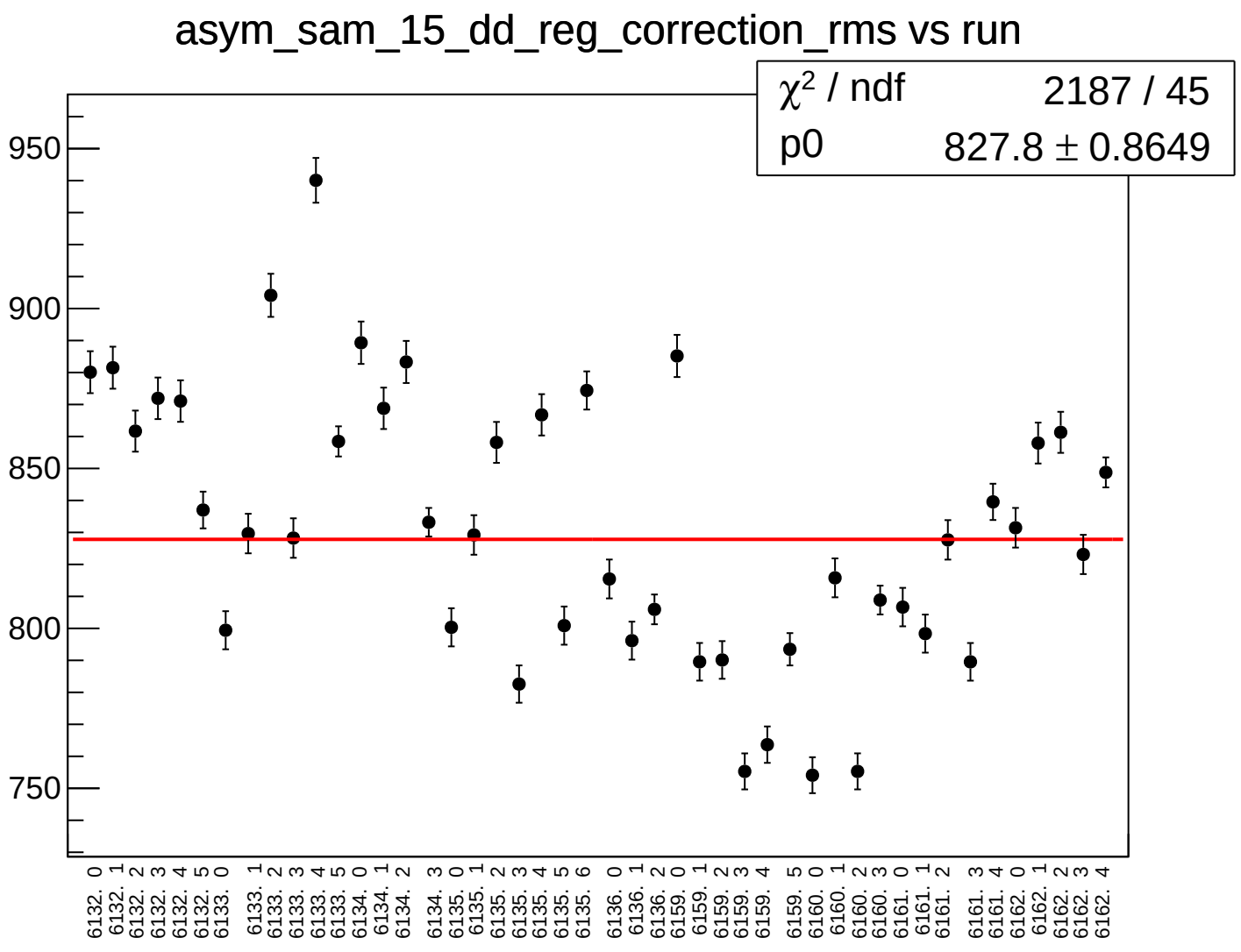

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.261e+05 / 45
p0 6.701e−11 ± 8.709e−14
0.6
0.5
0.4
0.3
0.2
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

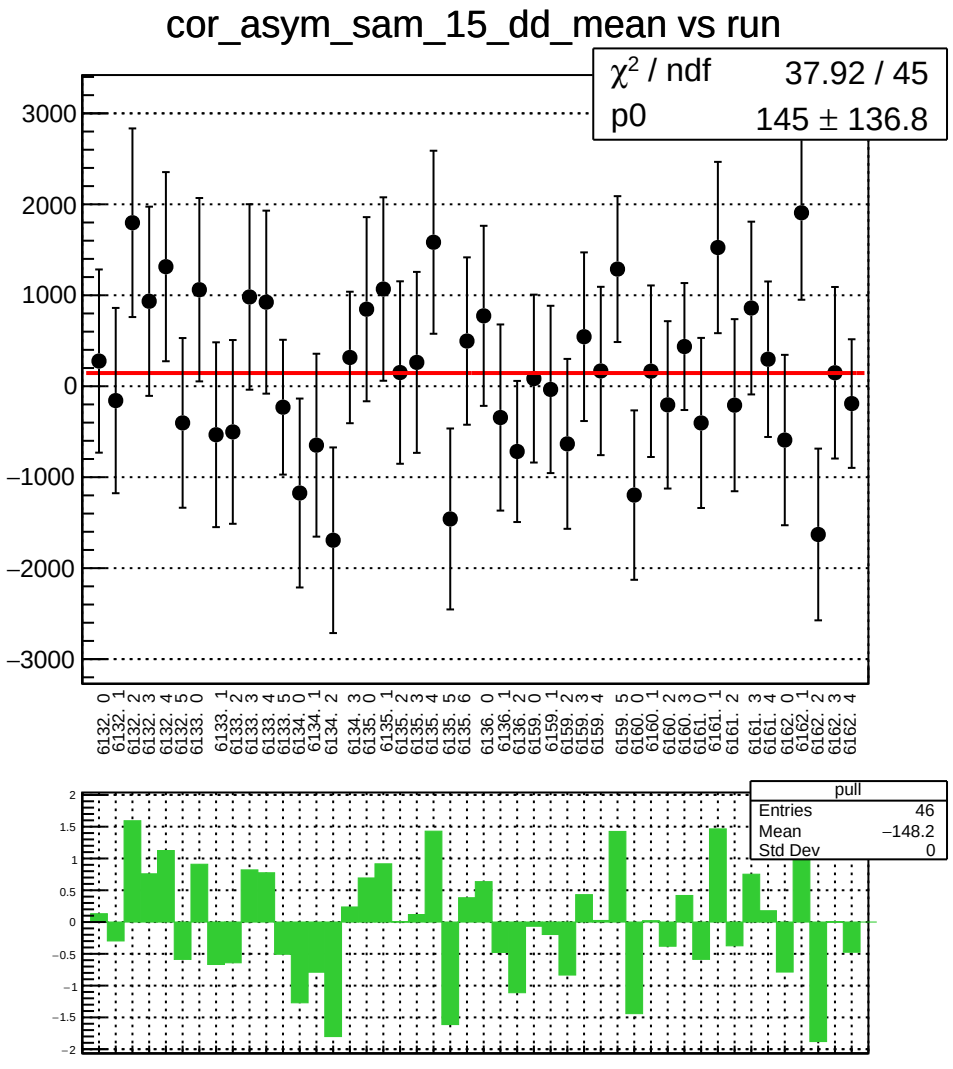

reg_asym_sam_15_dd_mean vs run
χ² / ndf 37.92 / 45
p0 145 ± 136.8
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −148.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

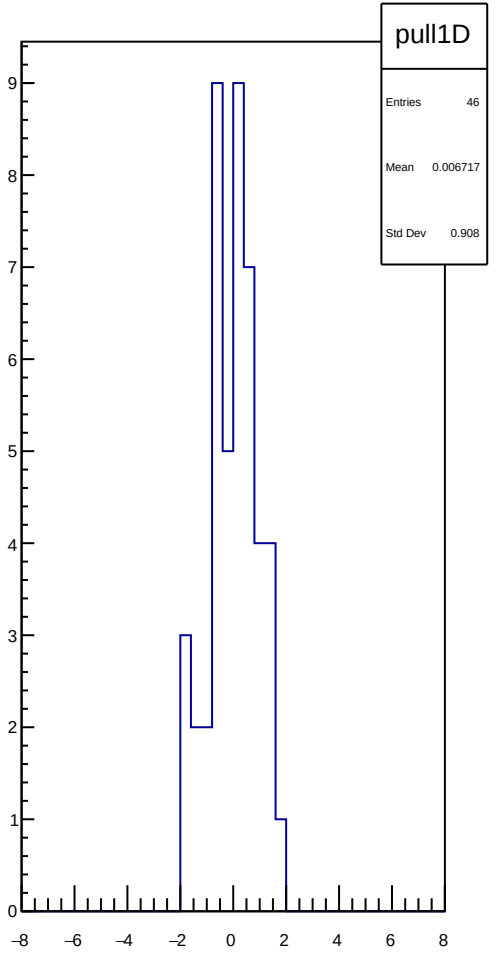

pull1D
Entries 46
Mean 0.006717
Std Dev 0.908
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

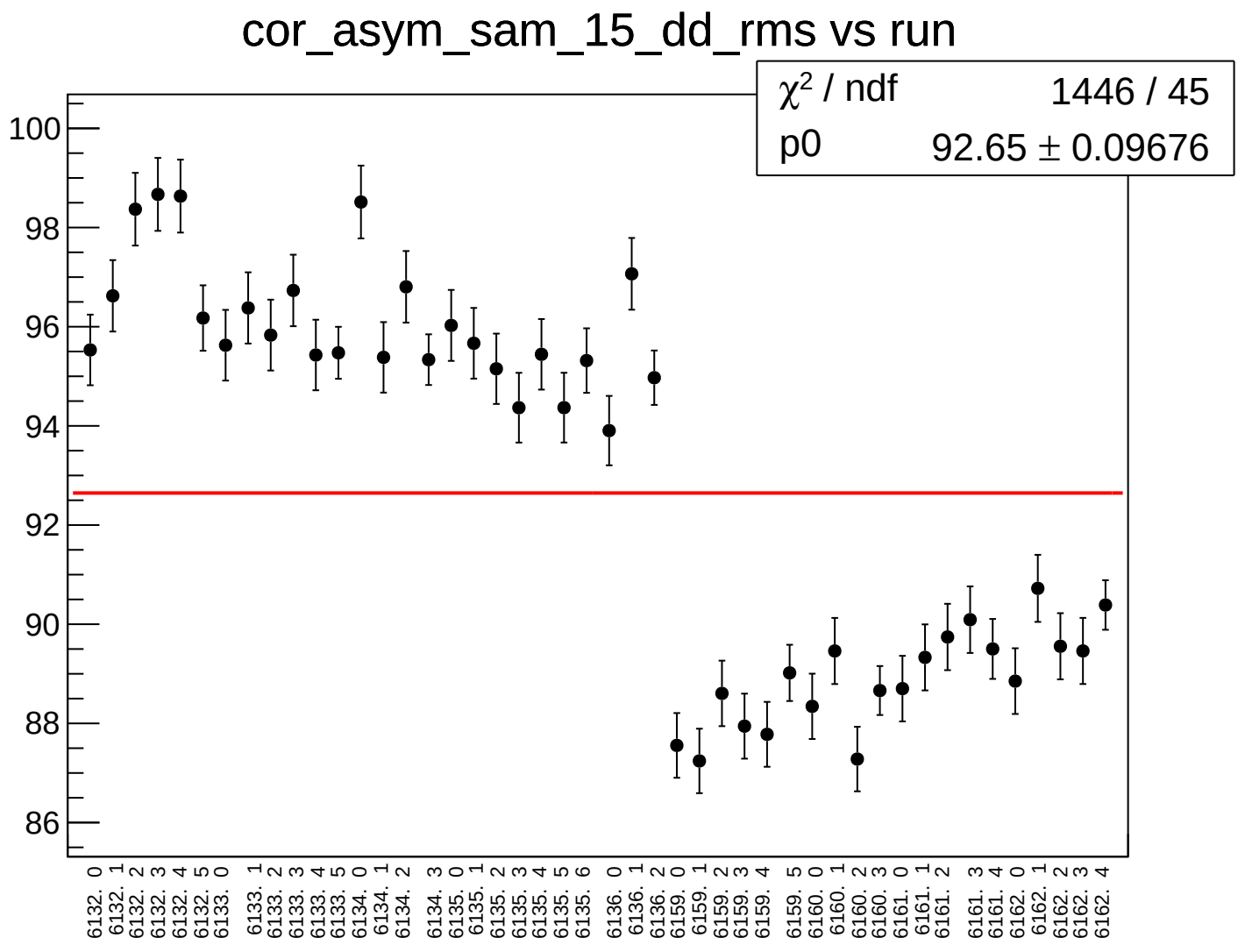

reg_asym_sam_15_dd_rms vs run
χ² / ndf 1446 / 45
p0 92.65 ± 0.09676
100
98
96
94
92
90
88
86
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 43.48 / 45
p0 −571.4 ± 1223
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 11.08
Std Dev 28.85
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.02798
Std Dev 0.9718
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 2187 / 45
p0 827.8 ± 0.8649
950
900
850
800
750
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_sam_15_dd_mean vs run
χ² / ndf 37.92 / 45
p0 145 ± 136.8
pull
Entries 46
Mean −148.2
Std Dev 0


pull1D
Entries 46
Mean 0.006717
Std Dev 0.908


cor_asym_sam_15_dd_rms vs run
χ² / ndf 1446 / 45
p0 92.65 ± 0.09676
100
98
96
94
92
90
88
86
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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6161. 4
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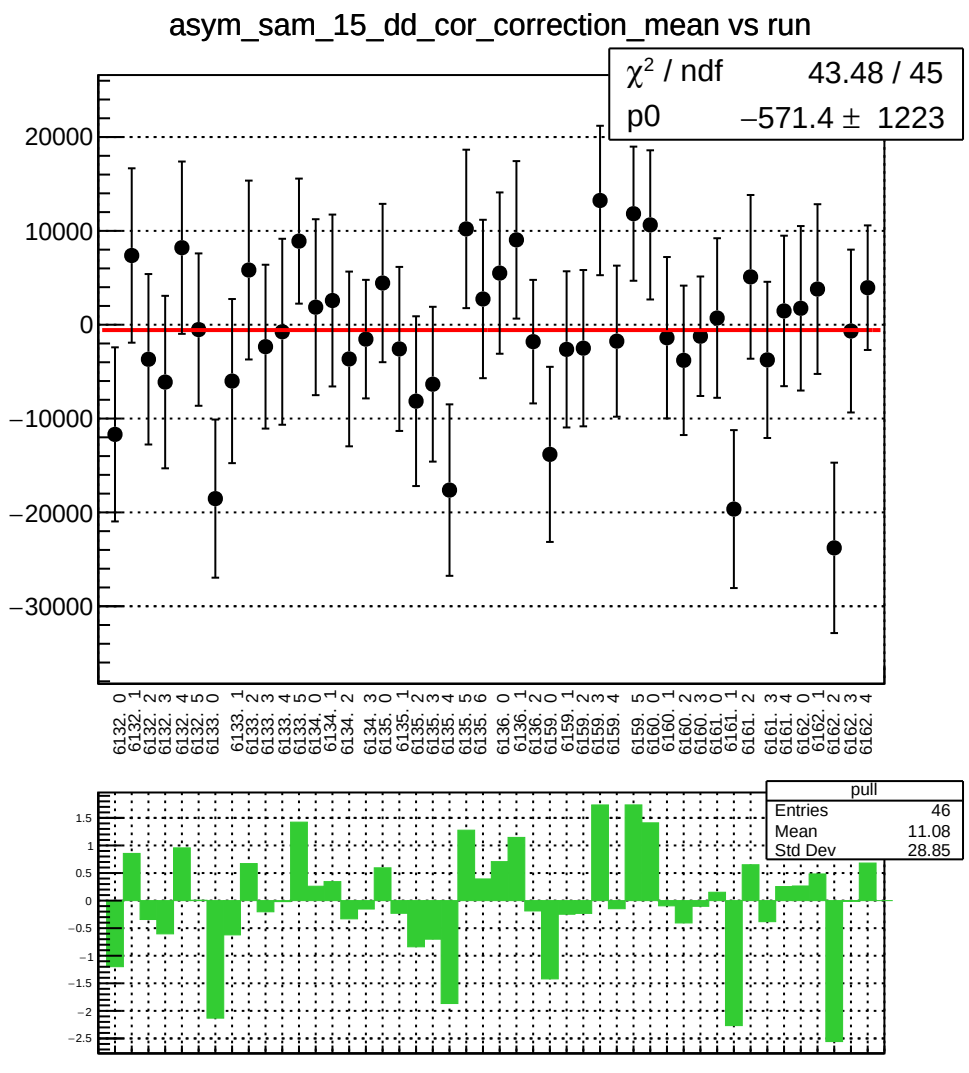
6162. 2
6162. 3
6162. 4


asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 43.48 / 45
p0 −571.4 ± 1223
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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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
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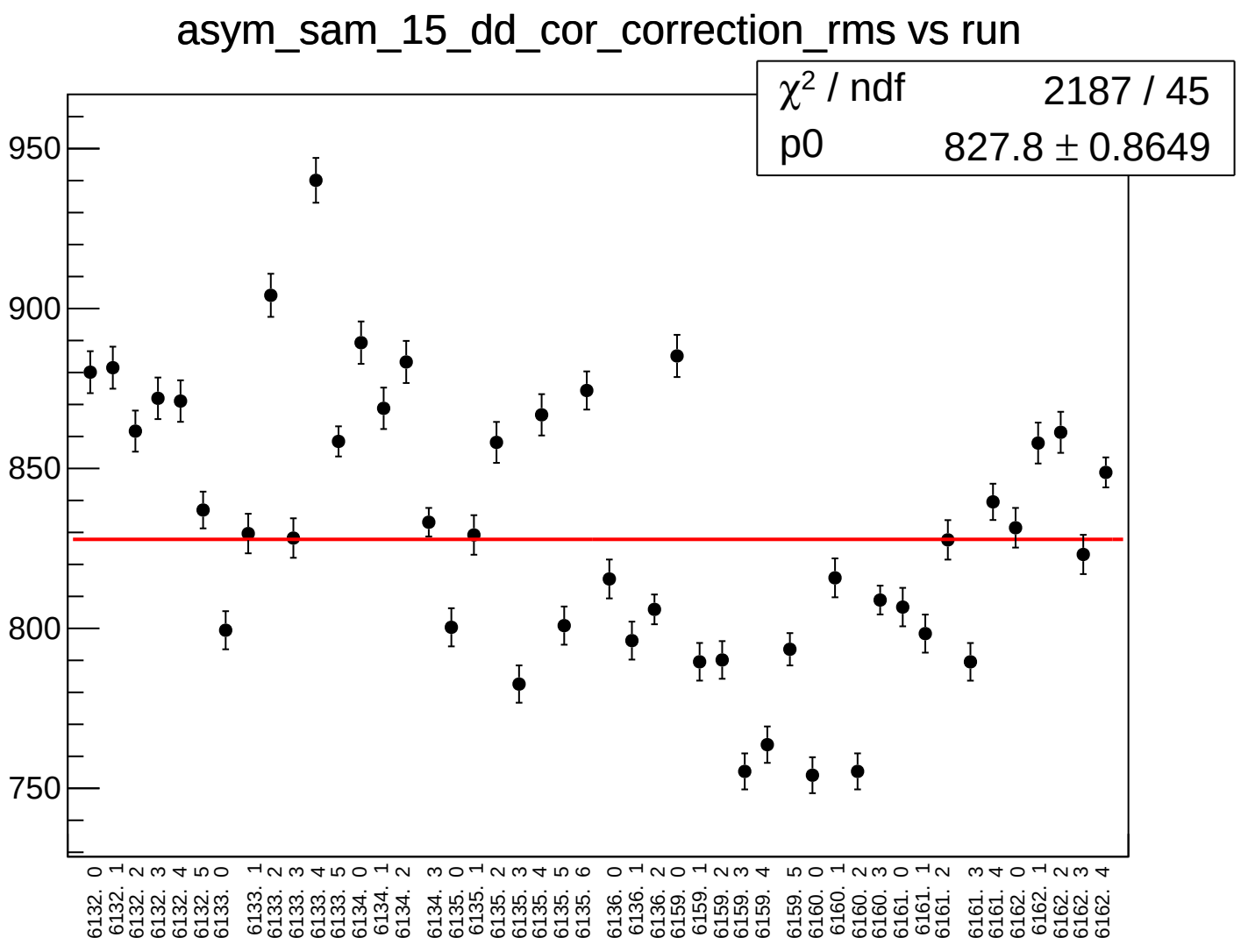
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 11.08
Std Dev 28.85
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.02798
Std Dev 0.9718
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 2187 / 45
p0 827.8 ± 0.8649
950
900
850
800
750
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 2
6135. 3
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6135. 5
6135. 6
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6136. 1
6136. 2
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6159. 1
6159. 2
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6159. 4
6159. 5
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6160. 1
6160. 2
6160. 3
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6161. 2
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6161. 4
6162. 0
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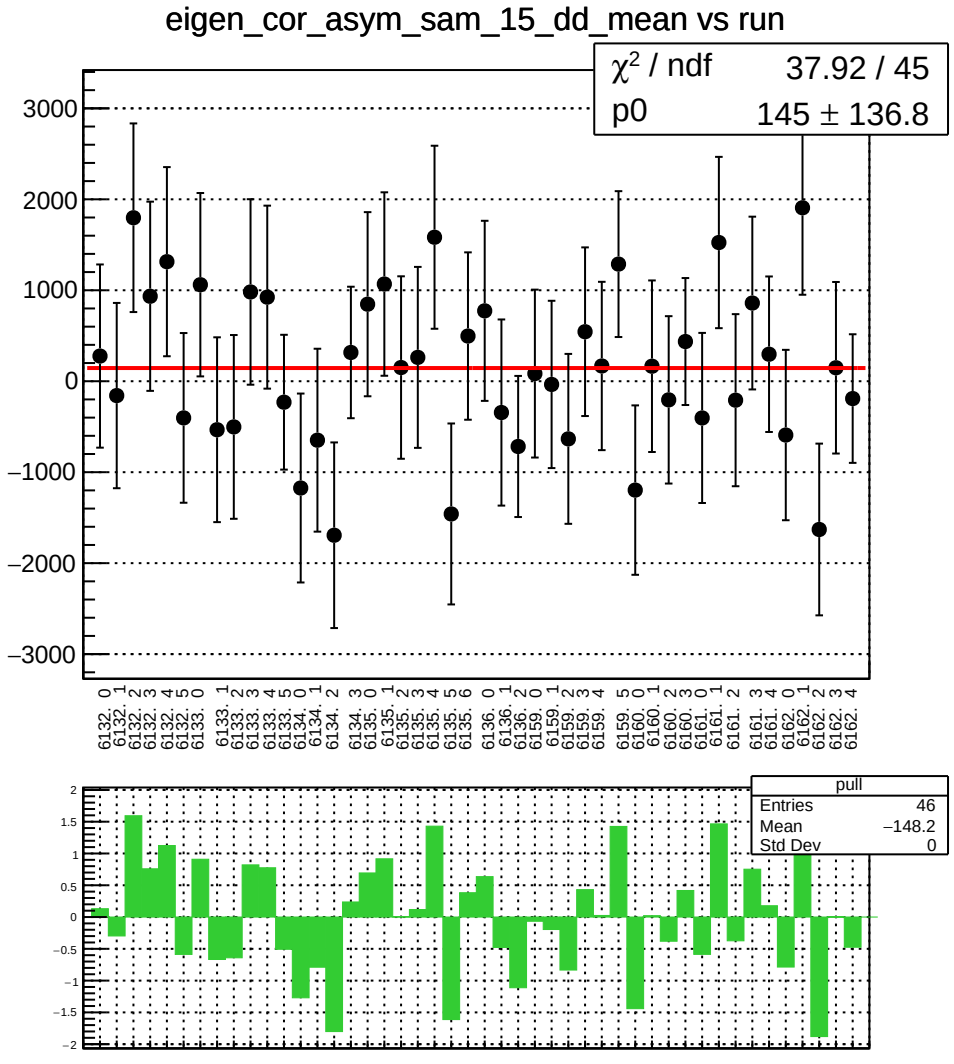
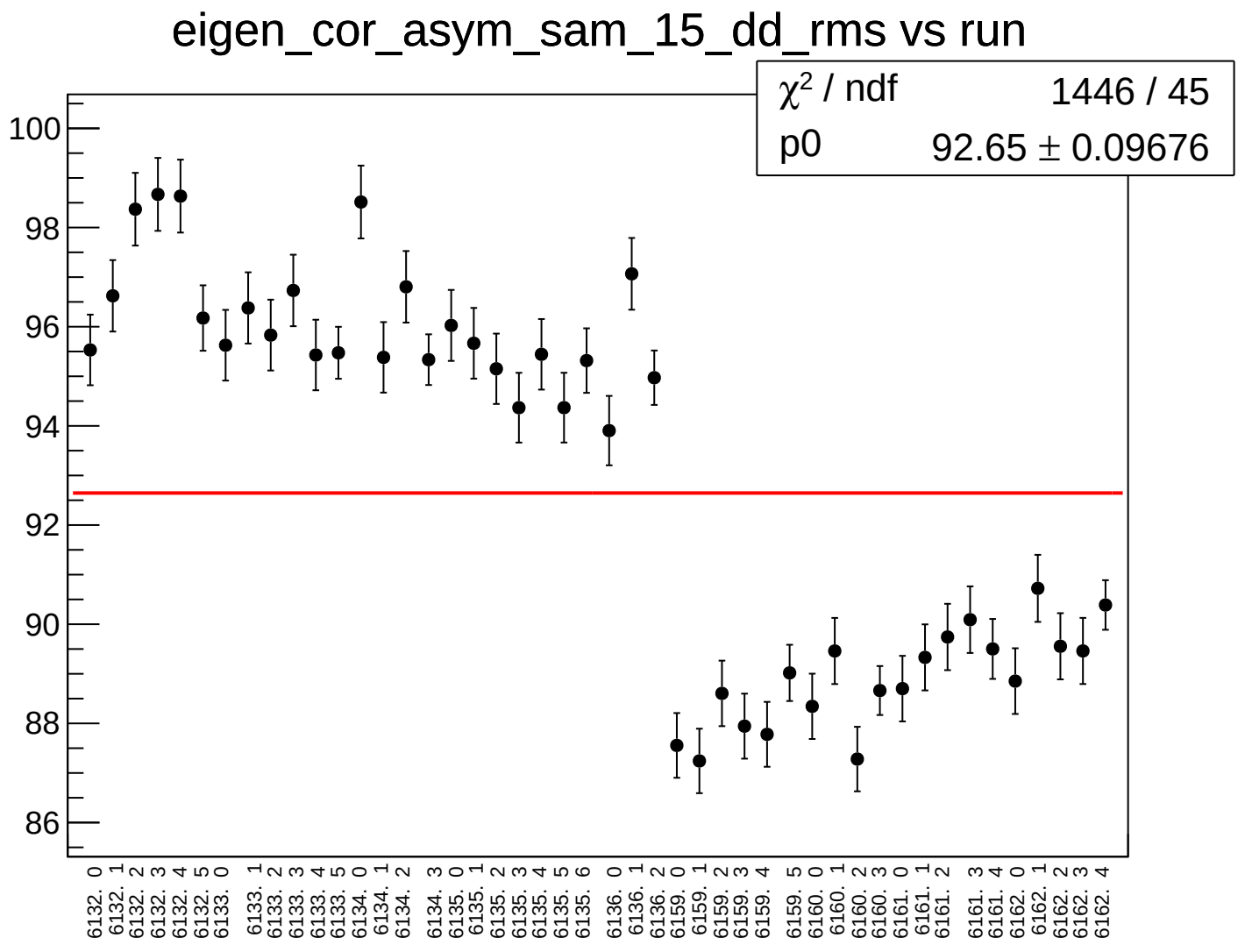
6162. 2
6162. 3
6162. 4


eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 37.92 / 45
p0 145 ± 136.8
pull
Entries 46
Mean −148.2
Std Dev 0
pull1D
Entries 46
Mean 0.006717
Std Dev 0.908


eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 1446 / 45
p0 92.65 ± 0.09676
100
98
96
94
92
90
88
86
6132. 0
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6132. 2
6132. 3
6132. 4
6132. 5
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6159. 4
6159. 5
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6160. 1
6160. 2
6160. 3
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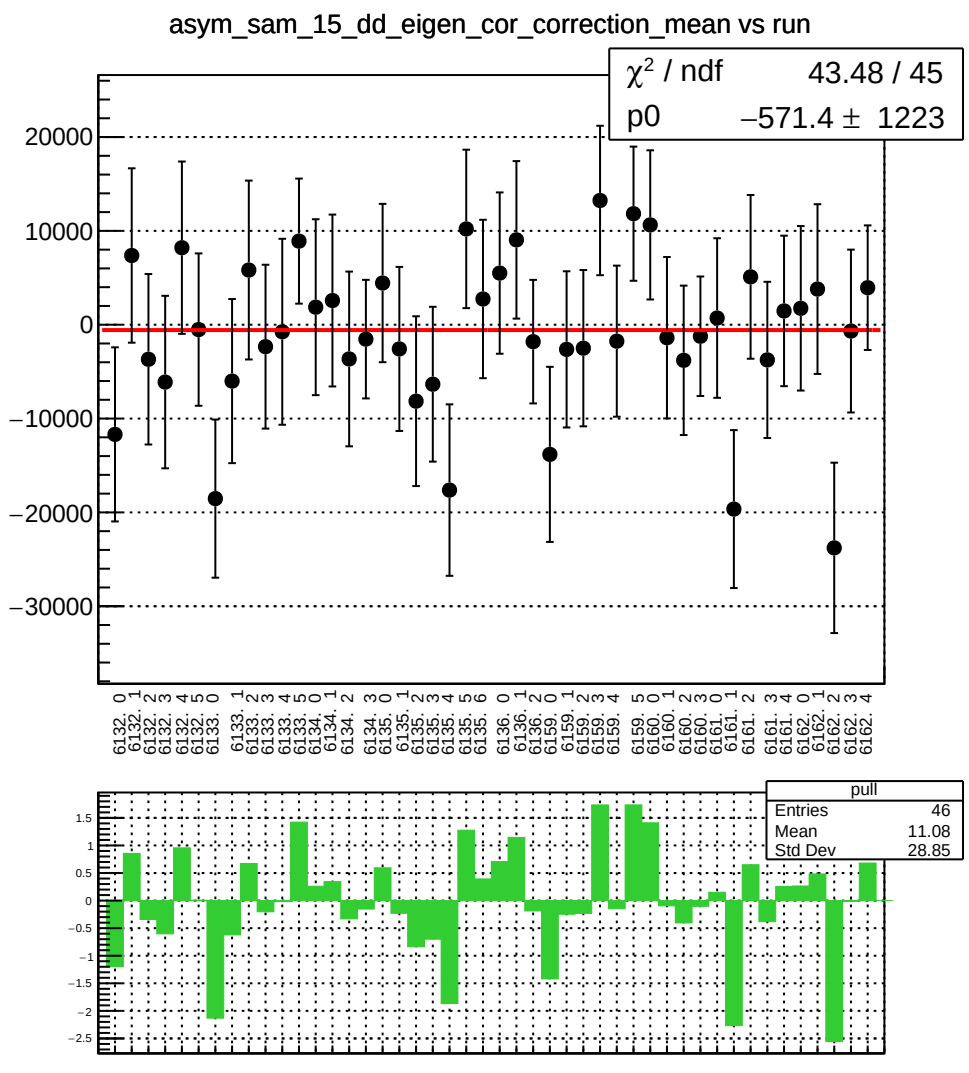
asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 43.48 / 45
p0 −571.4 ± 1223
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6134. 2
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6136. 0
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 11.08
Std Dev 28.85
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.02798
Std Dev 0.9718
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10
8
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2
0
−8
−6
−4
−2
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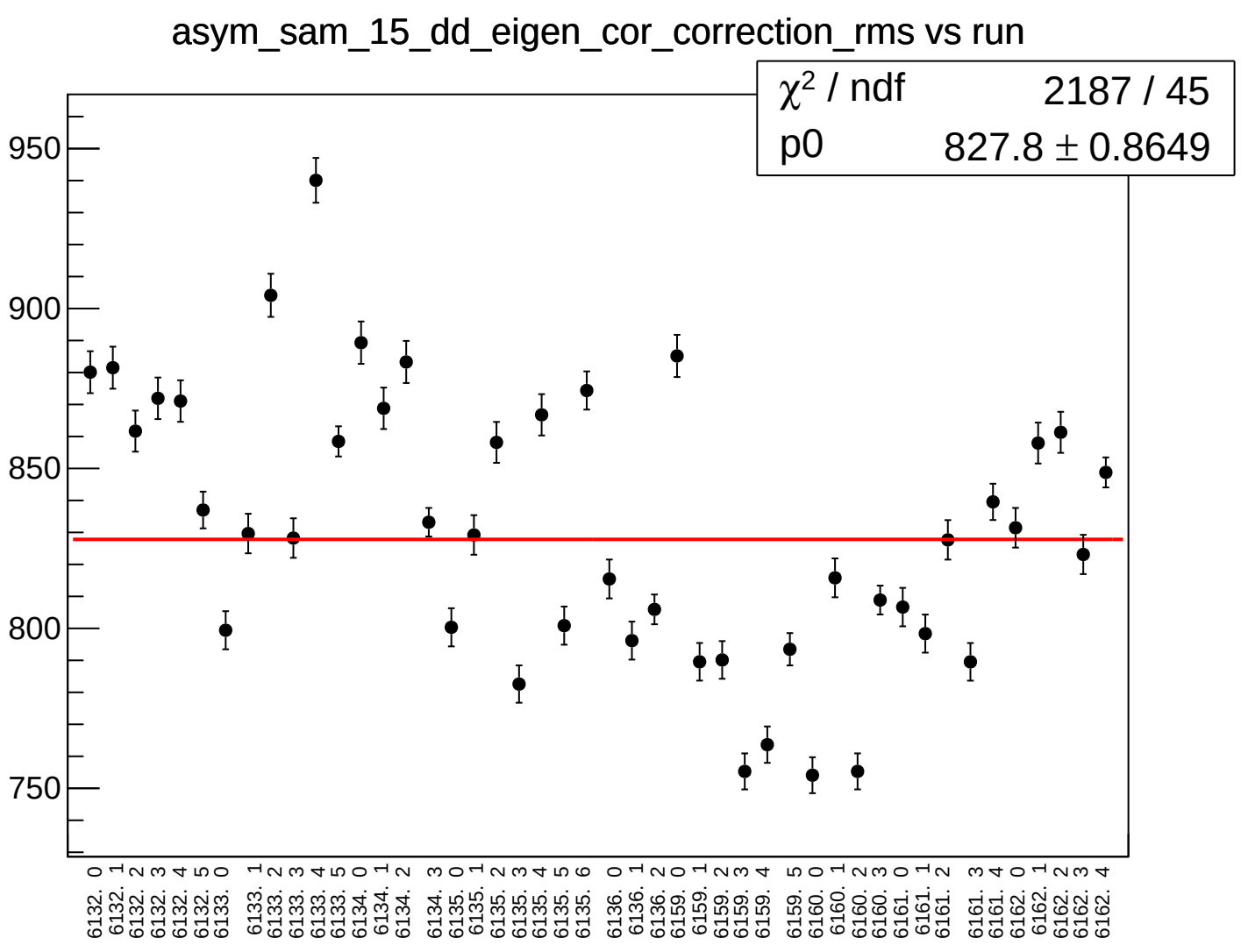
2
4
6
8


asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 2187 / 45
p0 827.8 ± 0.8649
950
900
850
800
750
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 0
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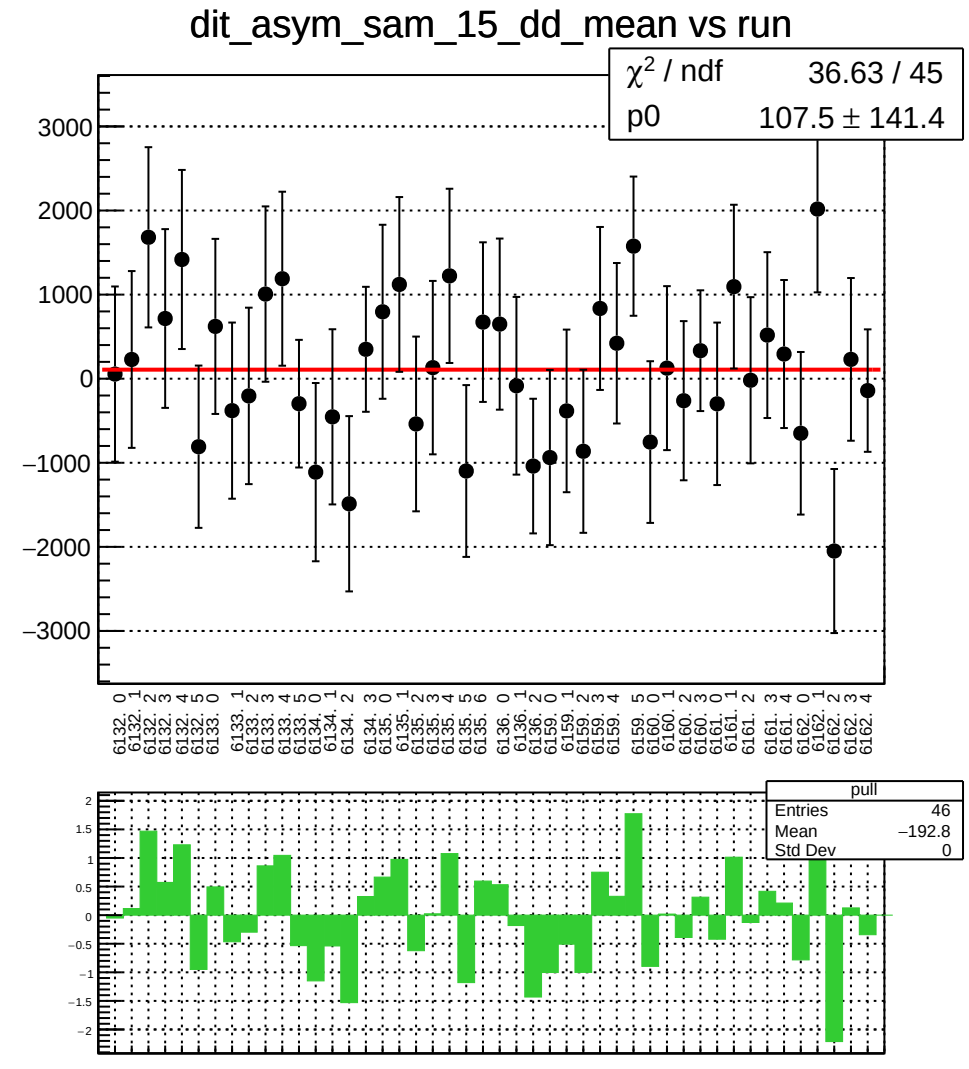
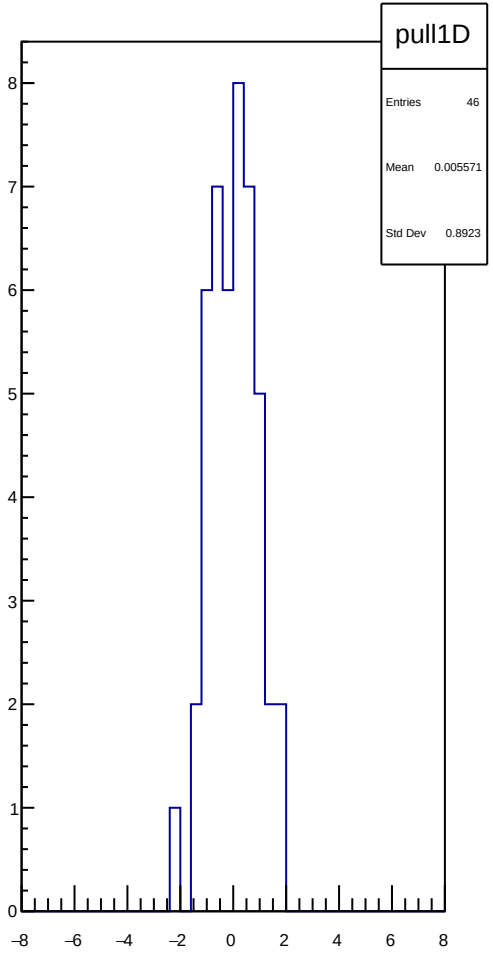
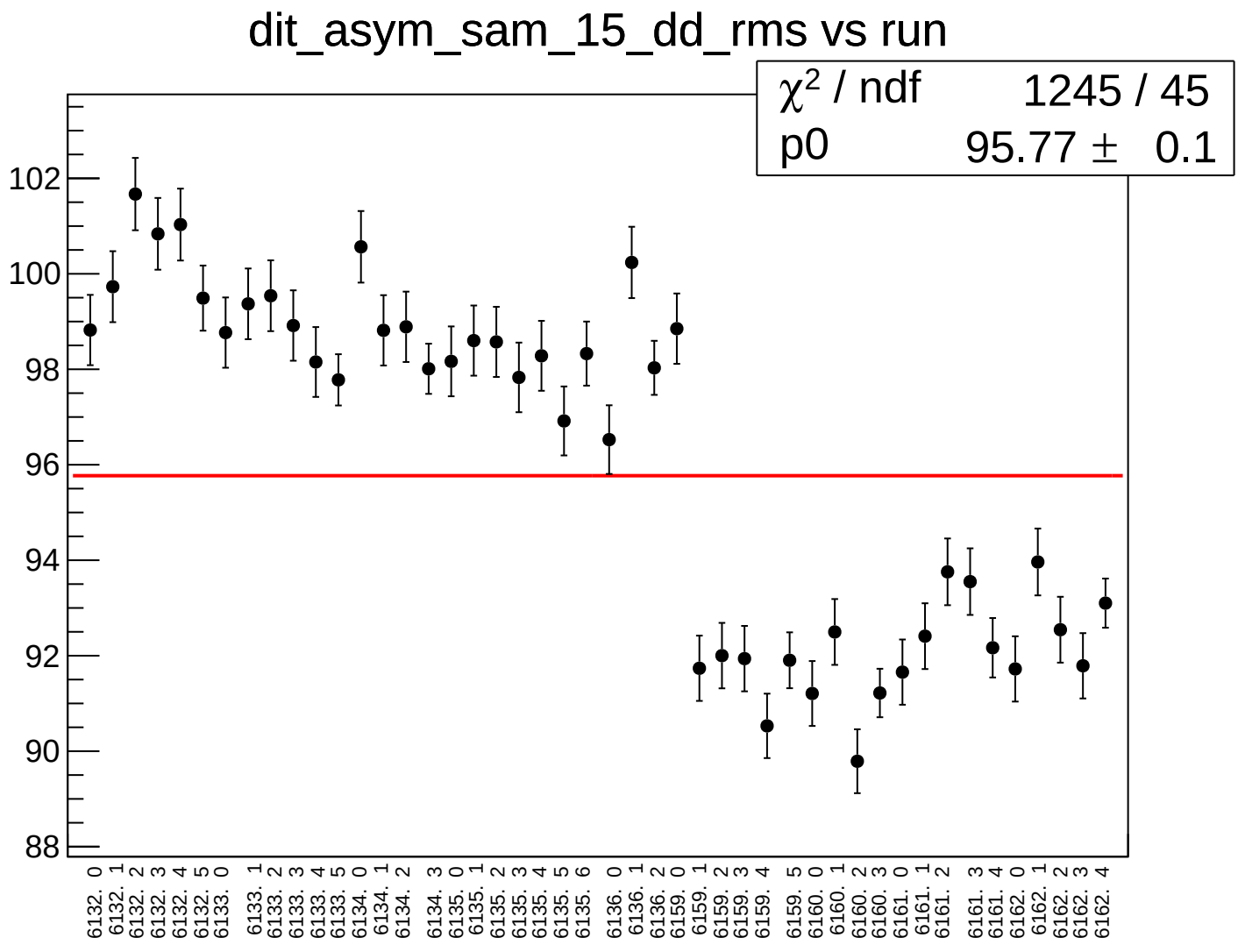
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


dit_asym_sam_15_dd_mean vs run
χ² / ndf 36.63 / 45
p0 107.5 ± 141.4
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −192.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.005571
Std Dev 0.8923
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_15_dd_rms vs run
χ² / ndf 1245 / 45
p0 95.77 ± 0.1
102
100
98
96
94
92
90
88
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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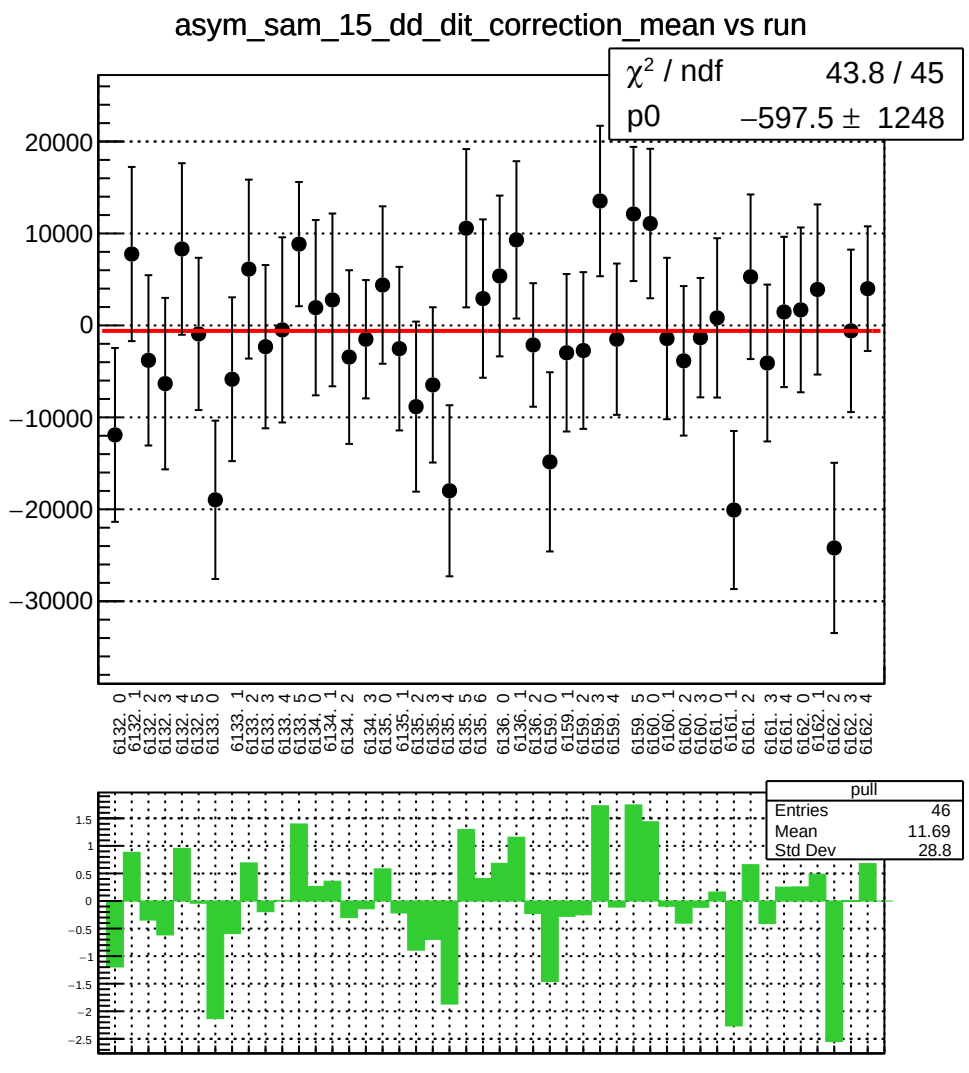
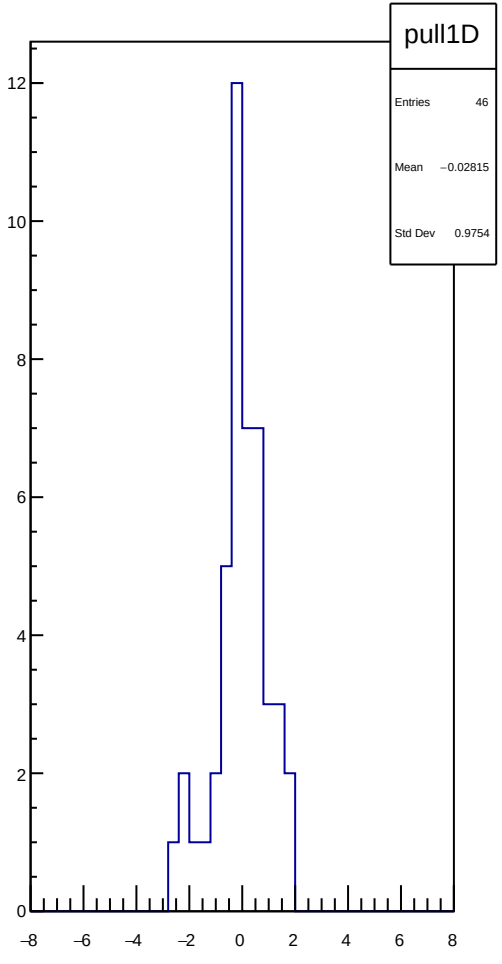
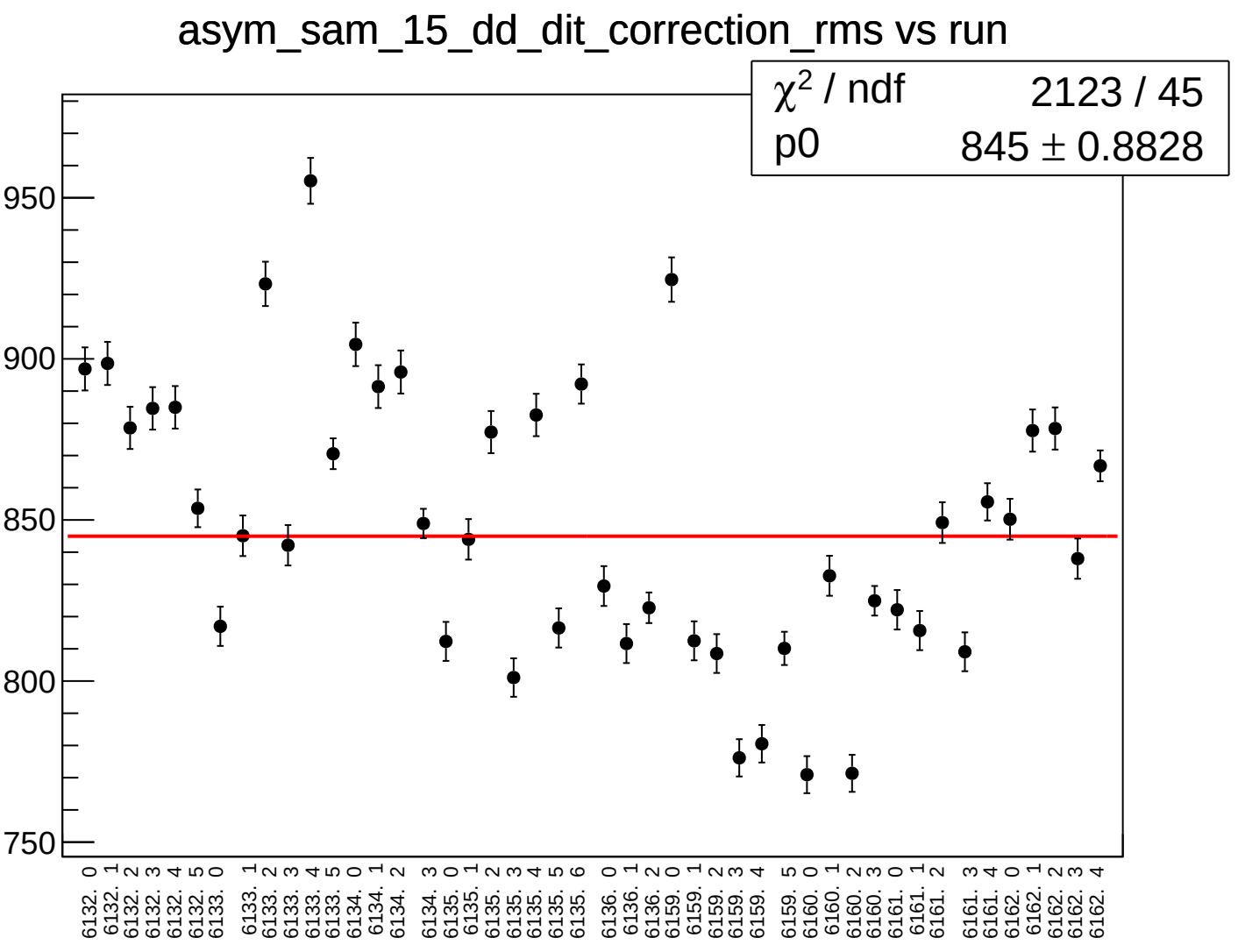
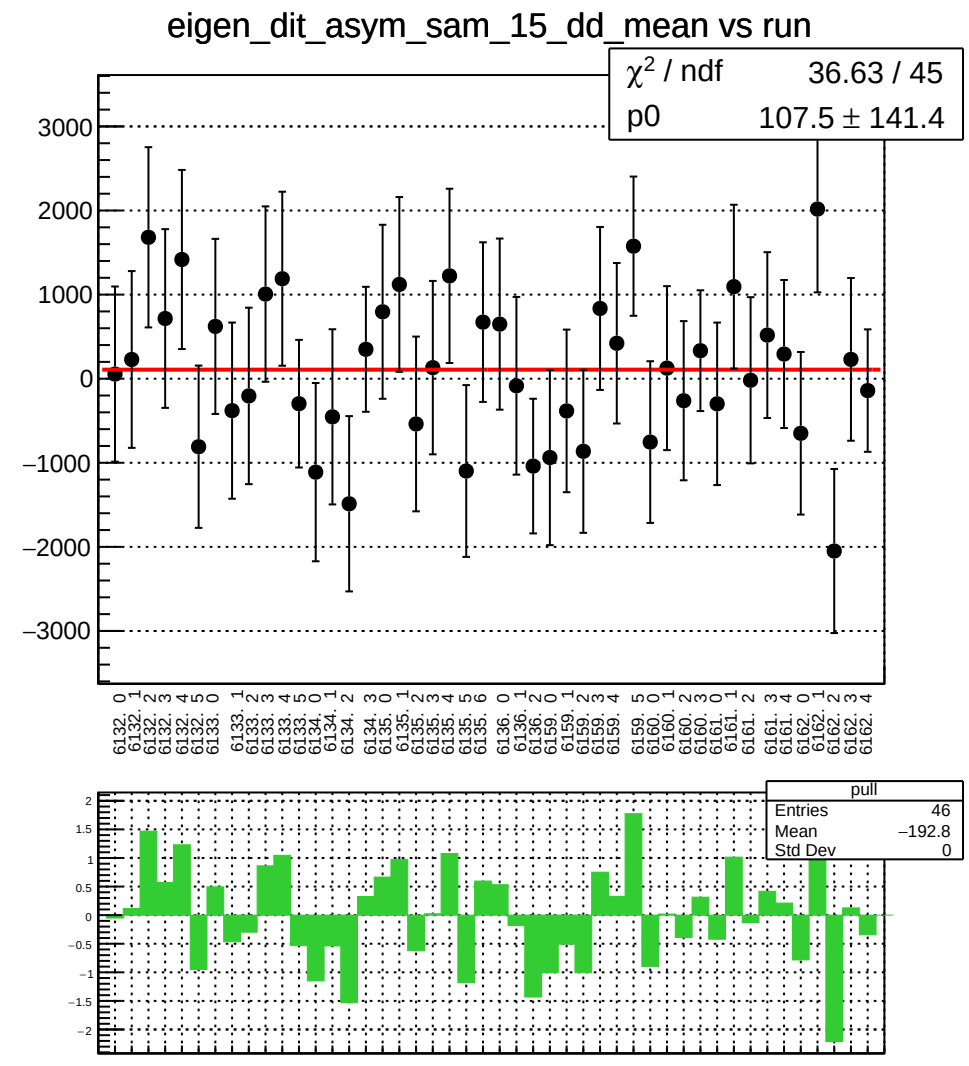
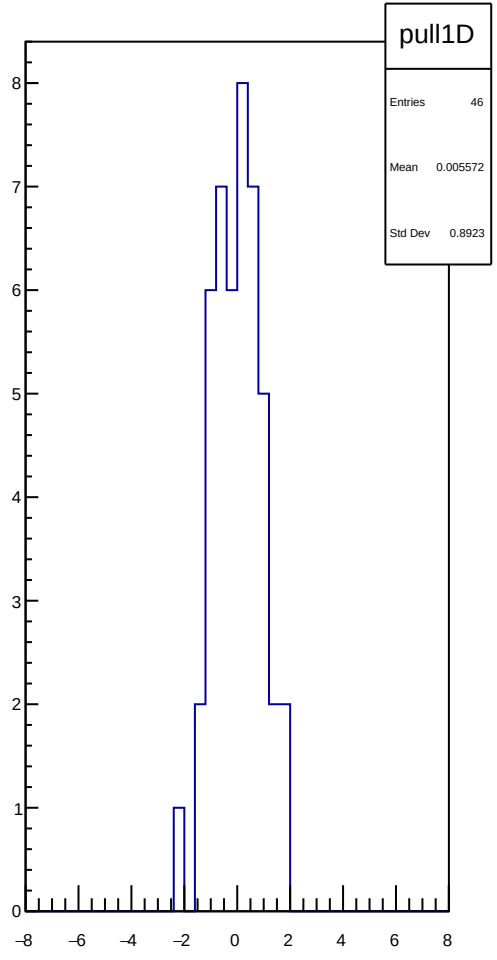
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 43.8 / 45
p0 −597.5 ± 1248
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 11.69
Std Dev 28.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.02815
Std Dev 0.9754
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 2123 / 45
p0 845 ± 0.8828
950
900
850
800
750
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 36.63 / 45
p0 107.5 ± 141.4
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −192.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.005572
Std Dev 0.8923
8
7
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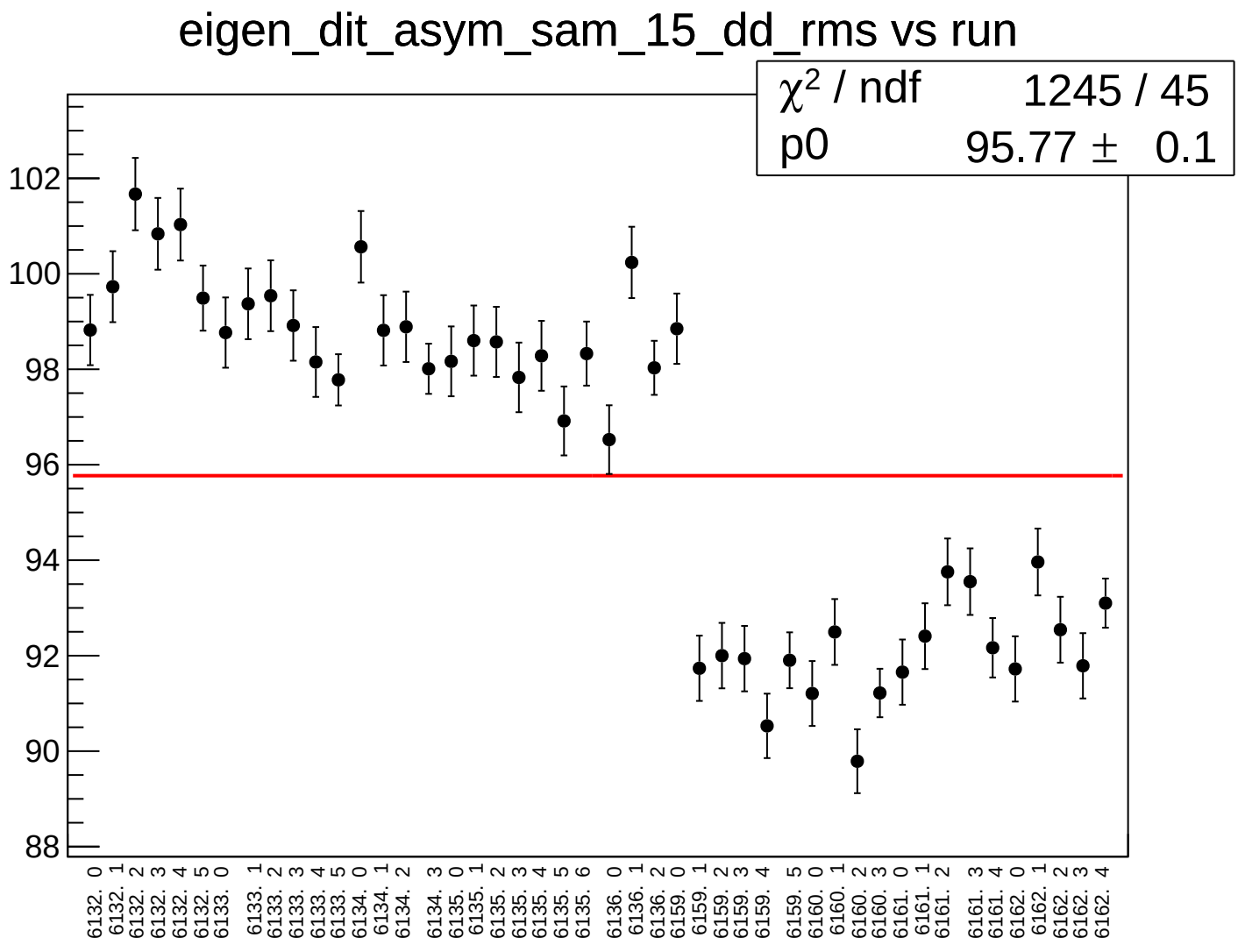
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 1245 / 45
p0 95.77 ± 0.1
102
100
98
96
94
92
90
88
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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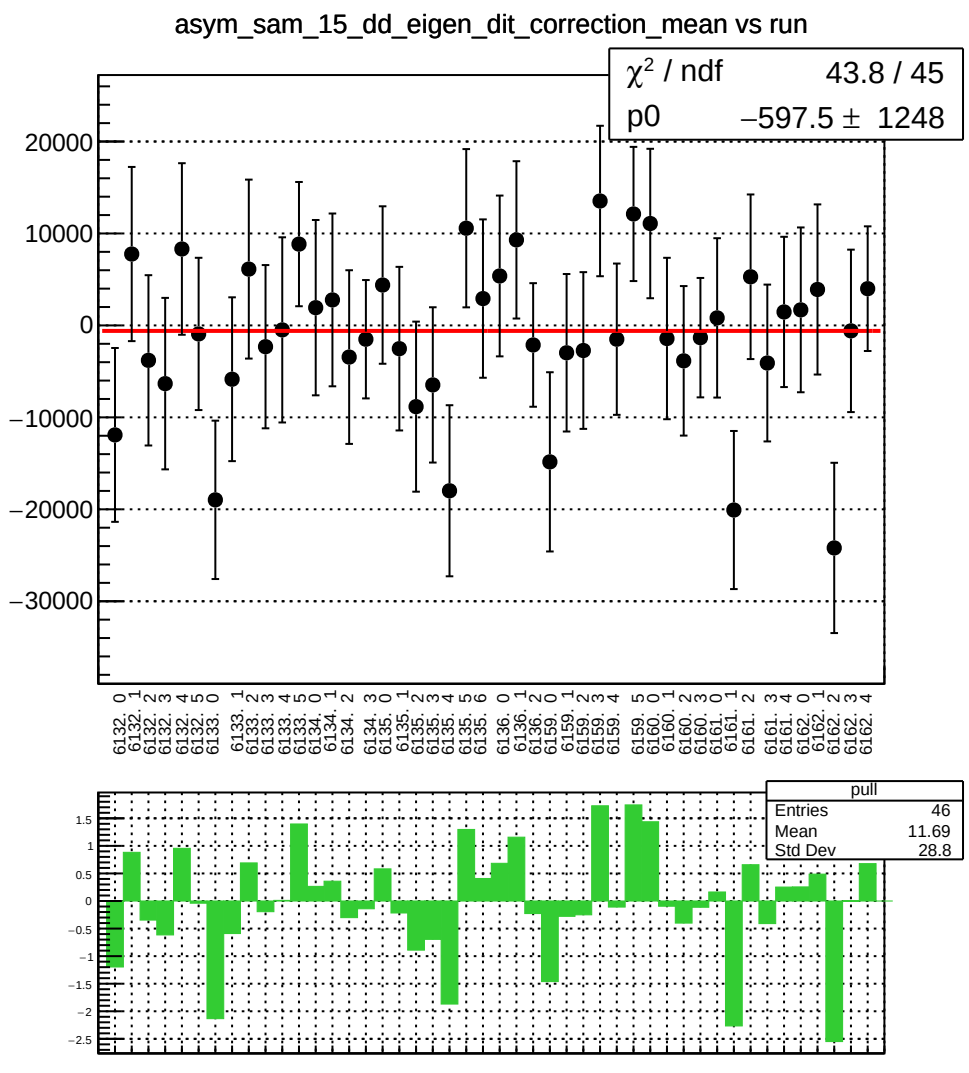
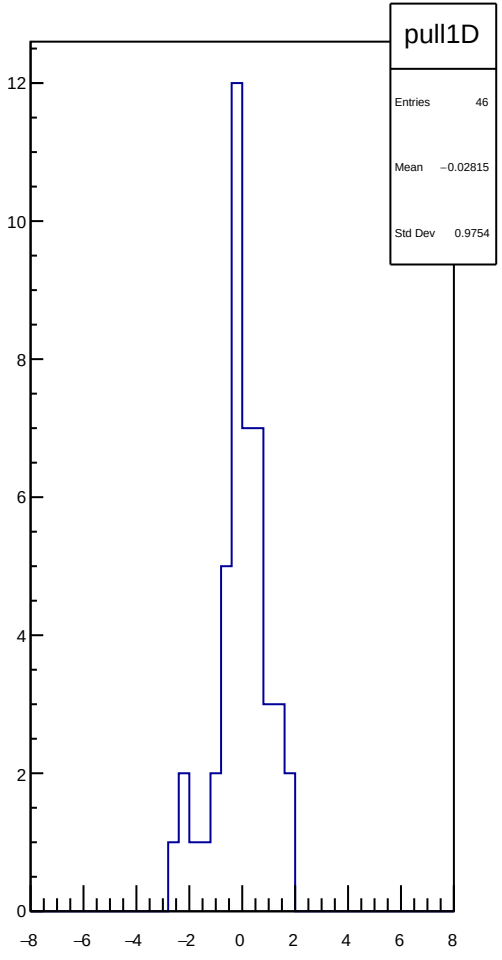
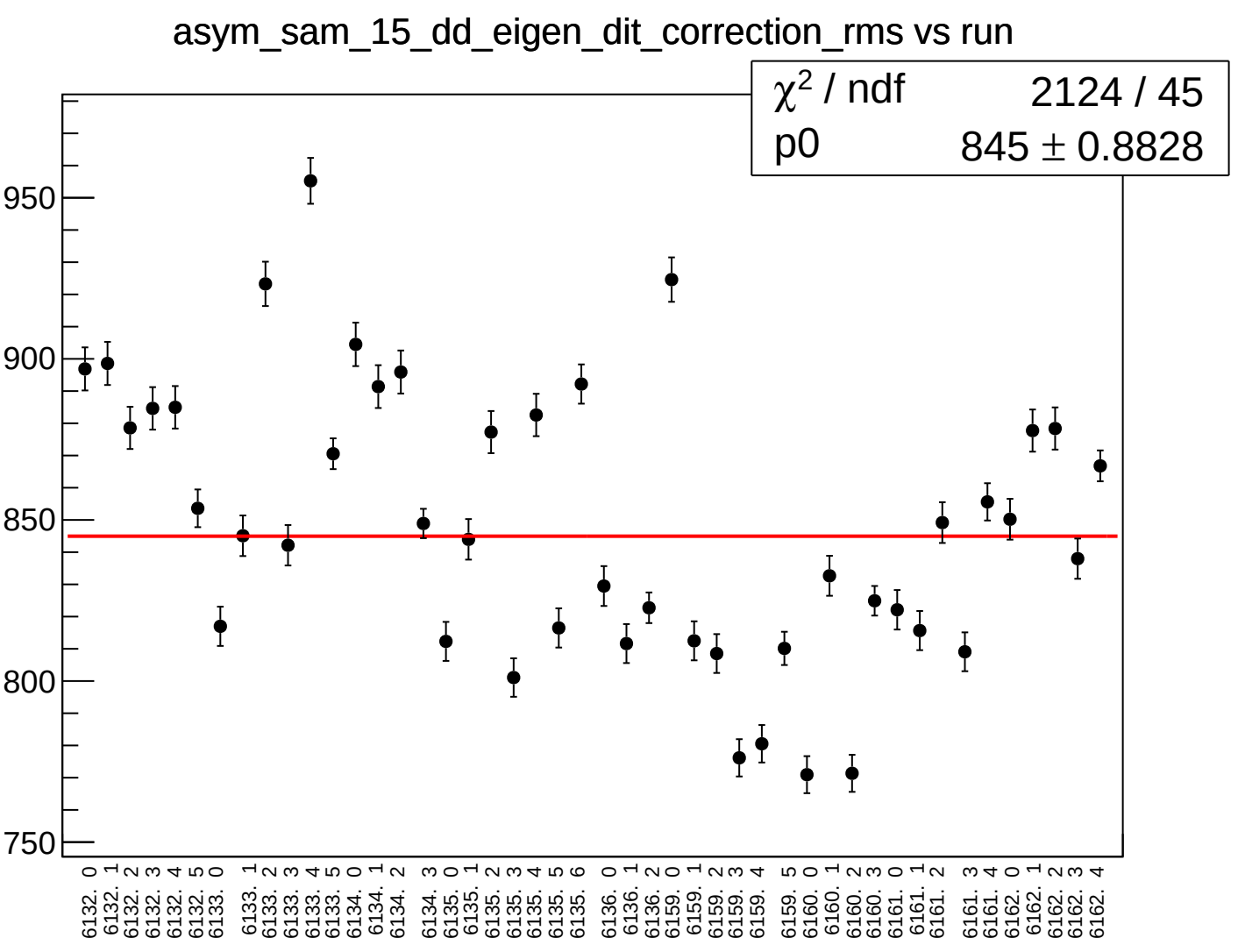
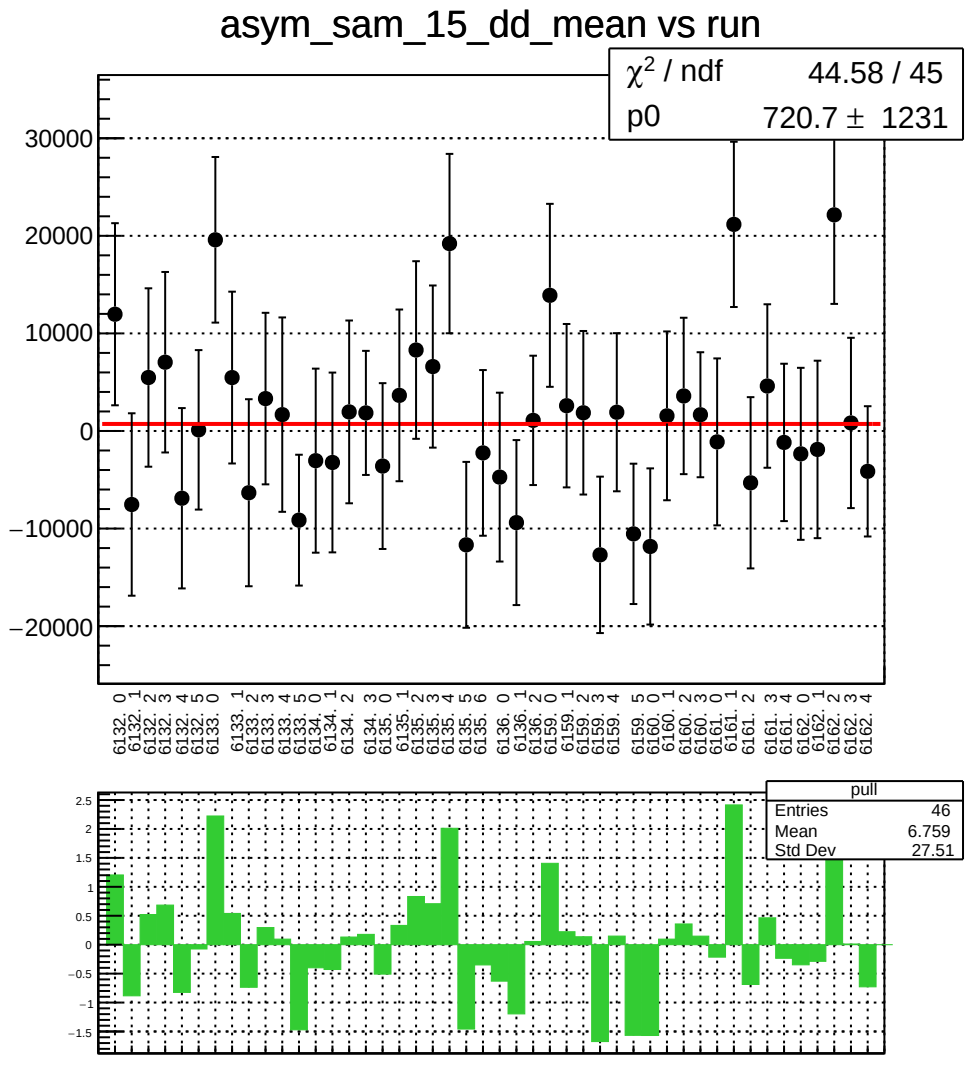
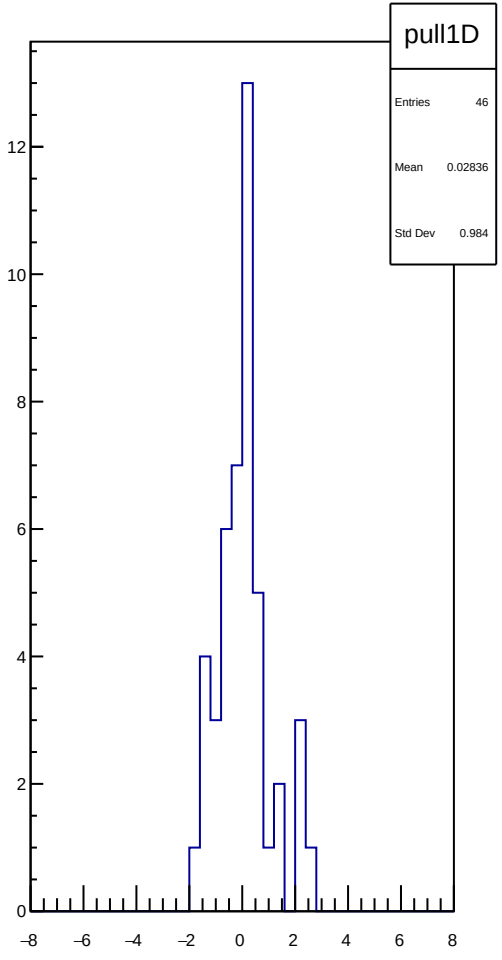
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 43.8 / 45
p0 −597.5 ± 1248
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 11.69
Std Dev 28.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.02815
Std Dev 0.9754
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 2124 / 45
p0 845 ± 0.8828
950
900
850
800
750
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_15_dd_mean vs run
χ^2 / ndf 44.58 / 45
p0 720.7 ± 1231
30000
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 6.759
Std Dev 27.51
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 46
Mean 0.02836
Std Dev 0.984
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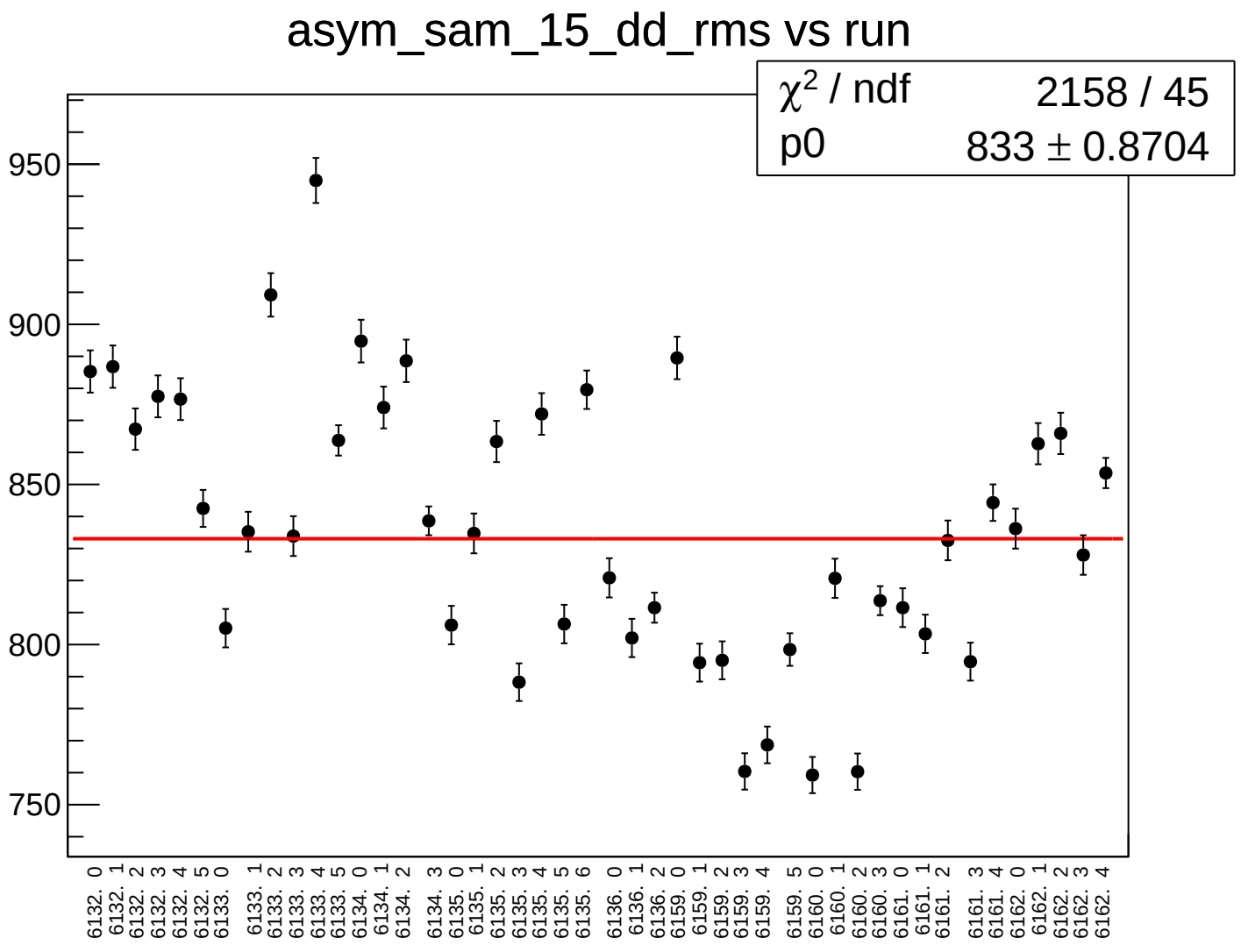
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_dd_rms vs run
χ² / ndf 2158 / 45
p0 833 ± 0.8704
950
900
850
800
750
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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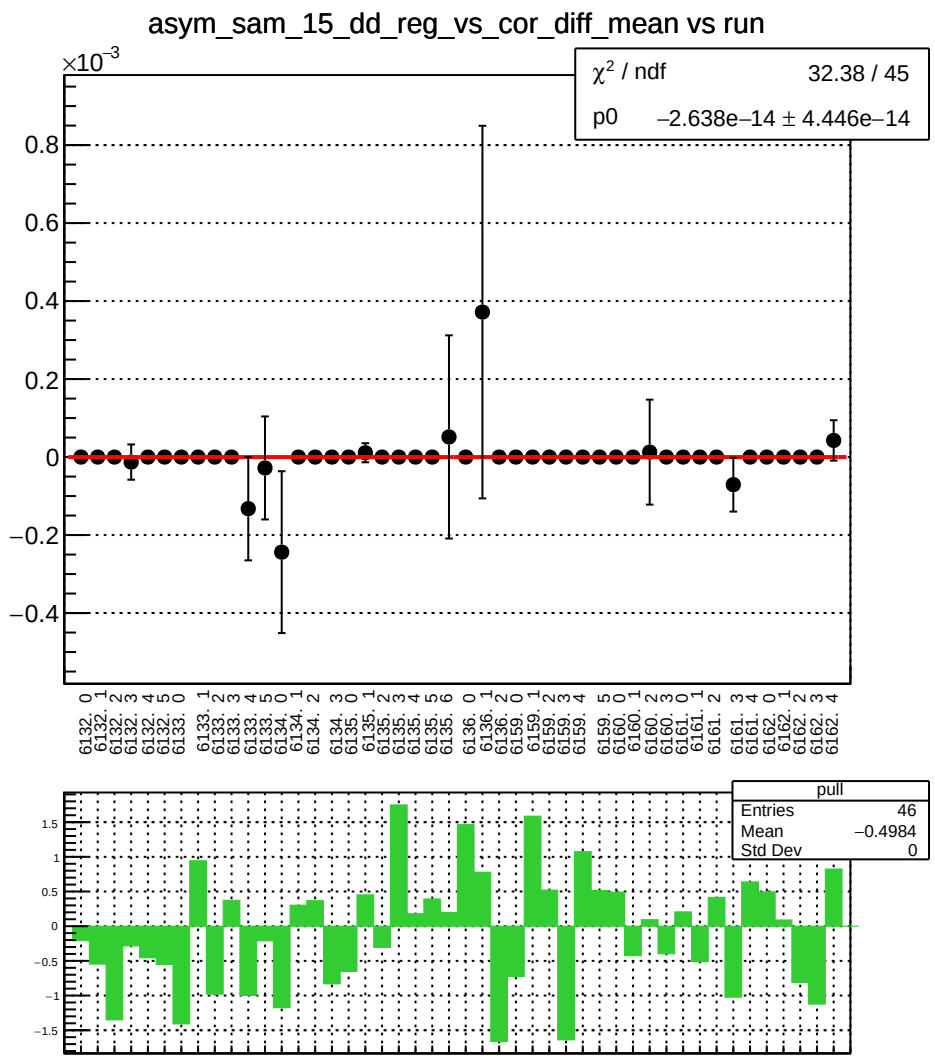
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_15_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 32.38 / 45
p0 −2.638e−14 ± 4.446e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
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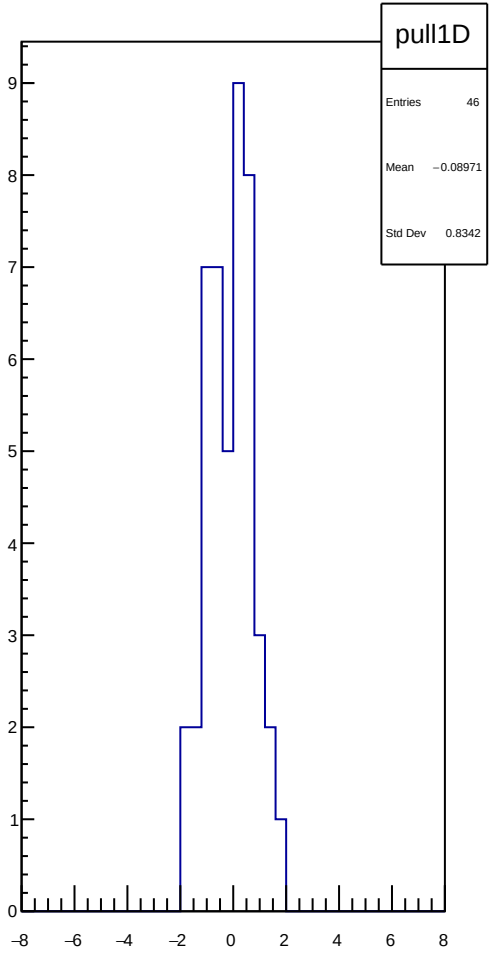
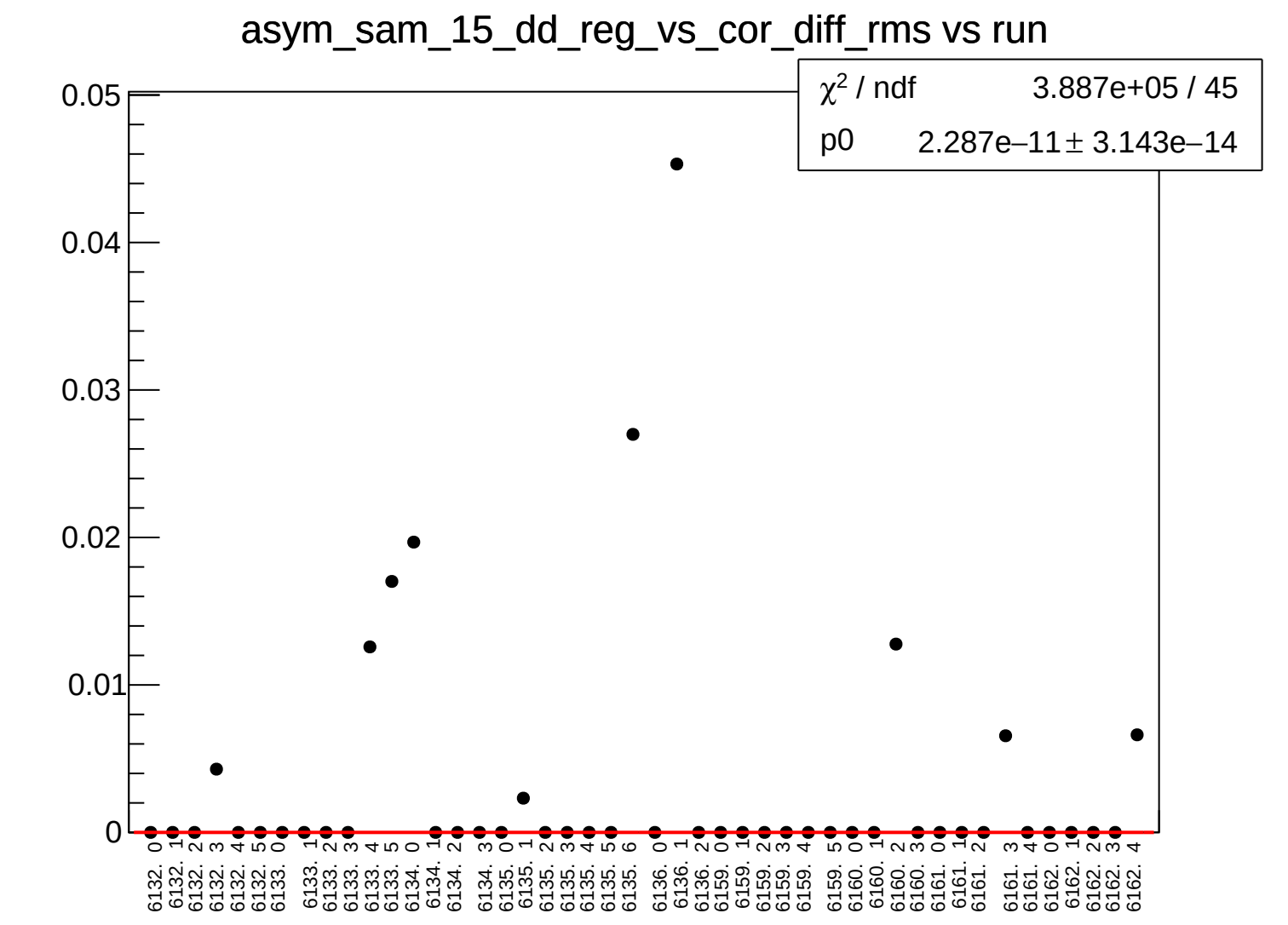
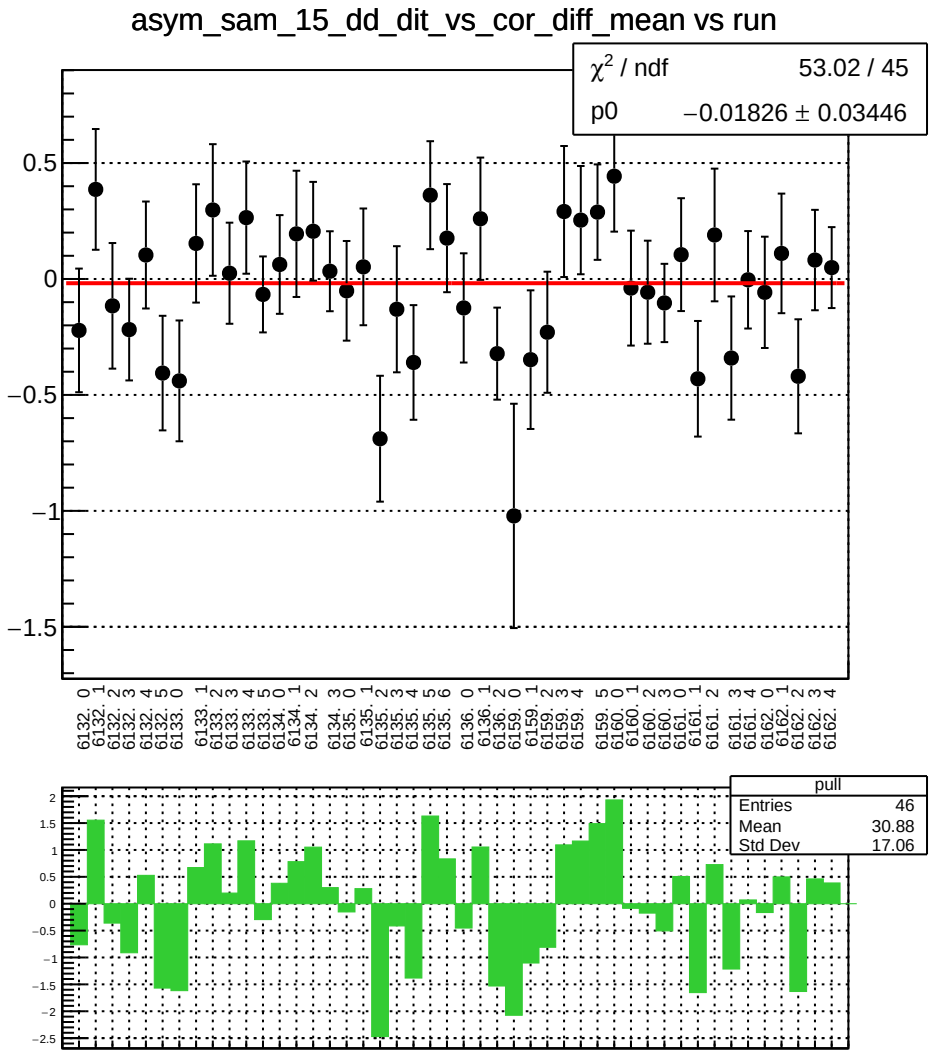
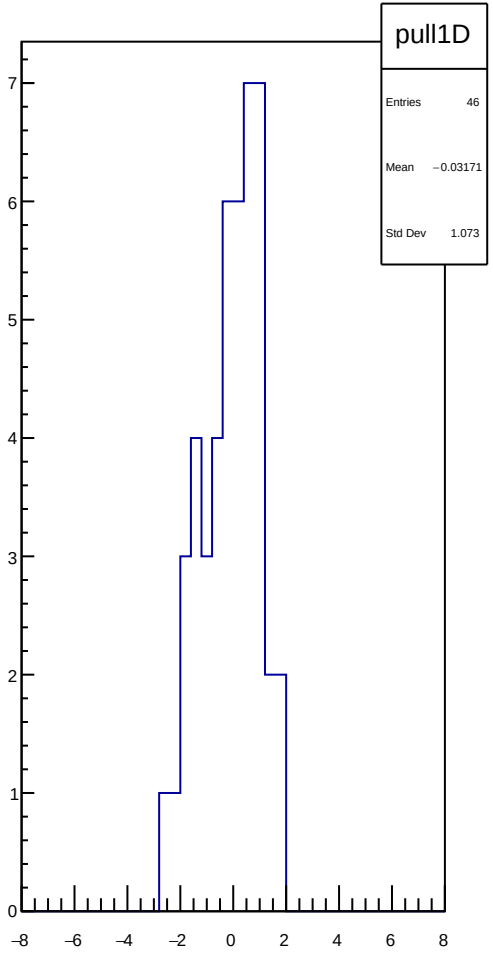
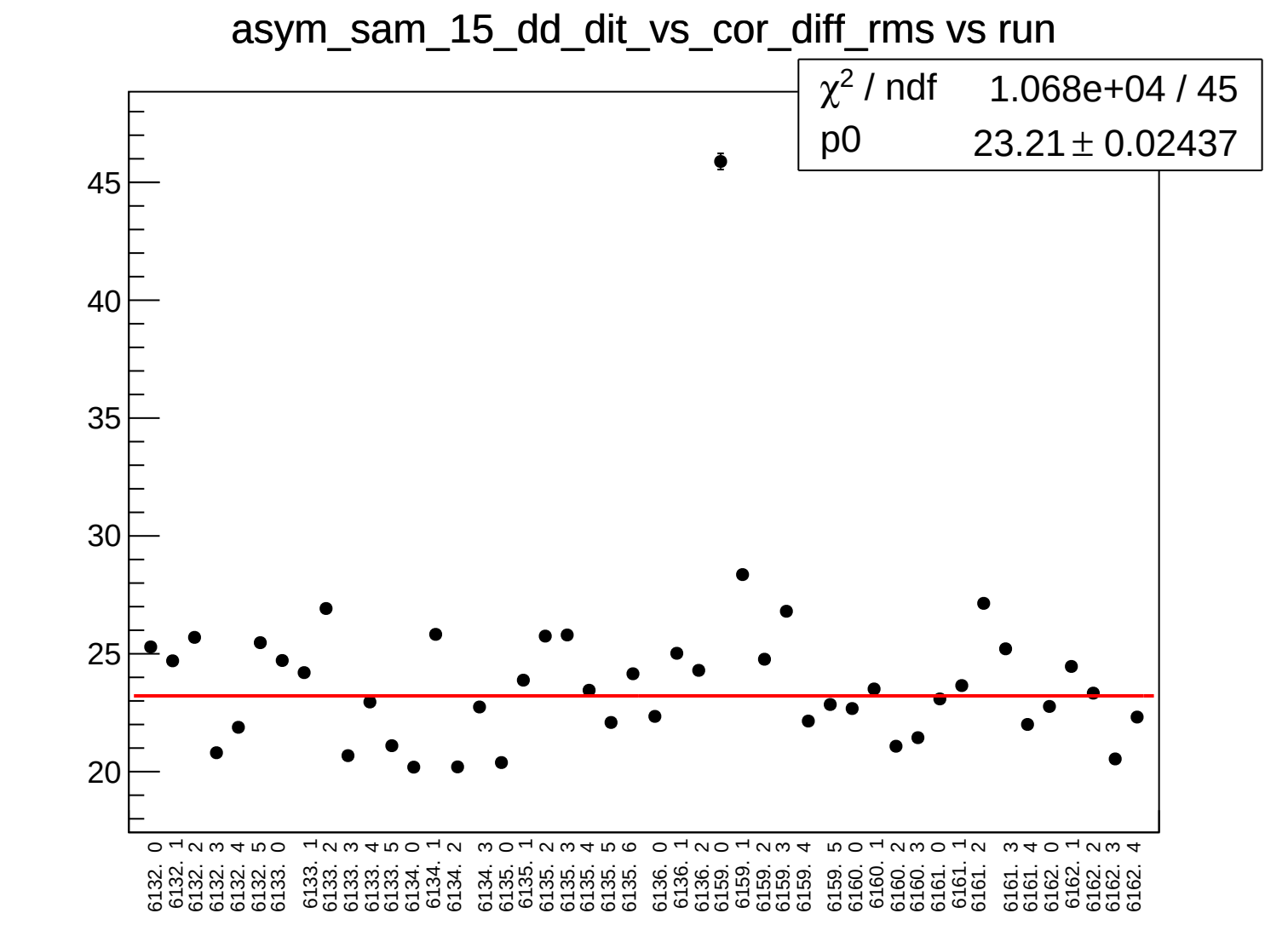
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −0.4984
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 46
Mean −0.08971
Std Dev 0.8342
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.887e+05 / 45
p0 2.287e−11 ± 3.143e−14
0.05
0.04
0.03
0.02
0.01
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 53.02 / 45
p0 −0.01826 ± 0.03446
pull
Entries 46
Mean 30.88
Std Dev 17.06


pull1D
Entries 46
Mean −0.03171
Std Dev 1.073


asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.068e+04 / 45
p0 23.21 ± 0.02437
45
40
35
30
25
20
6132. 0
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6132. 2
6132. 3
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6133. 2
6133. 3
6133. 4
6133. 5
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6135. 0
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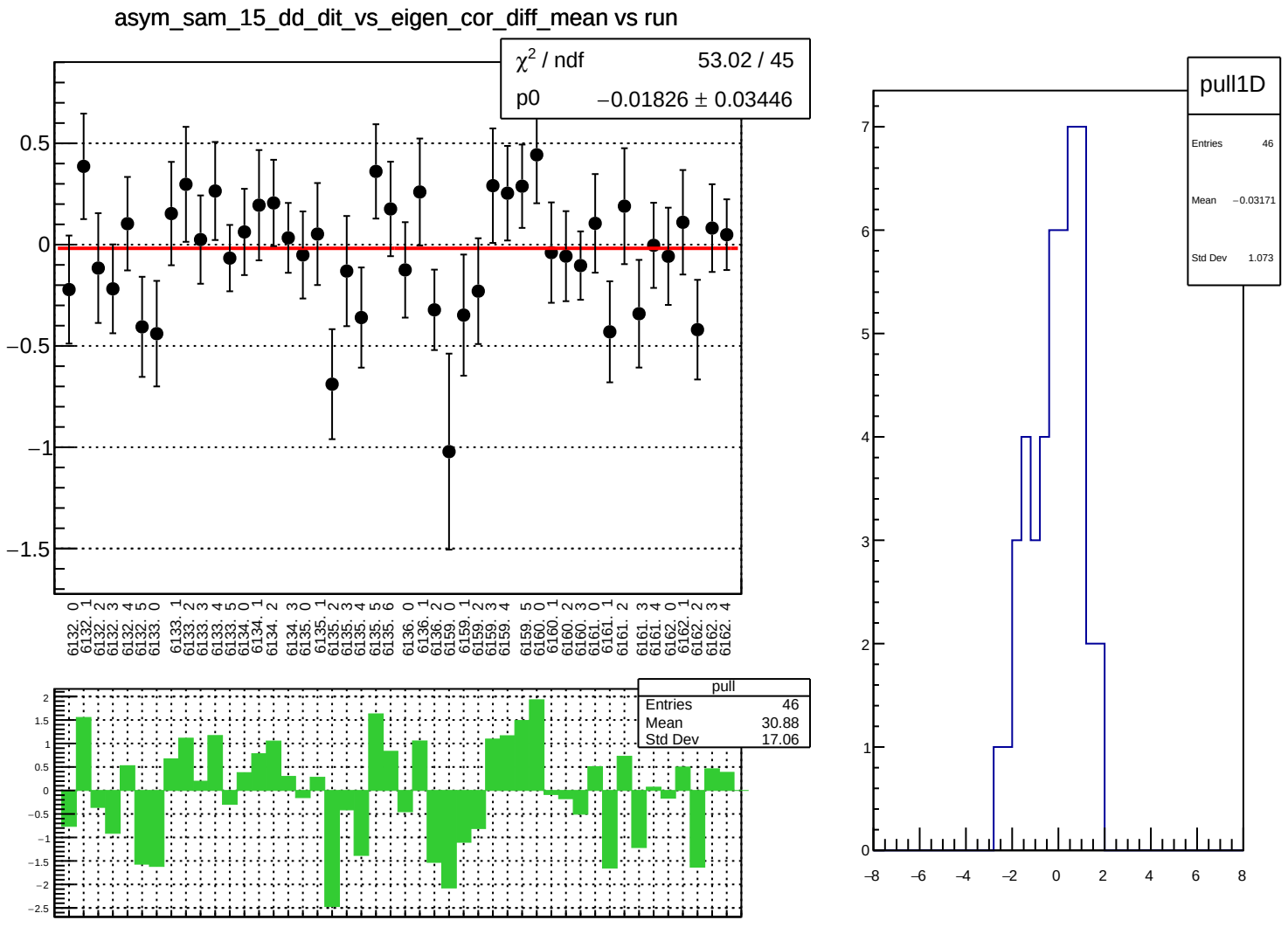
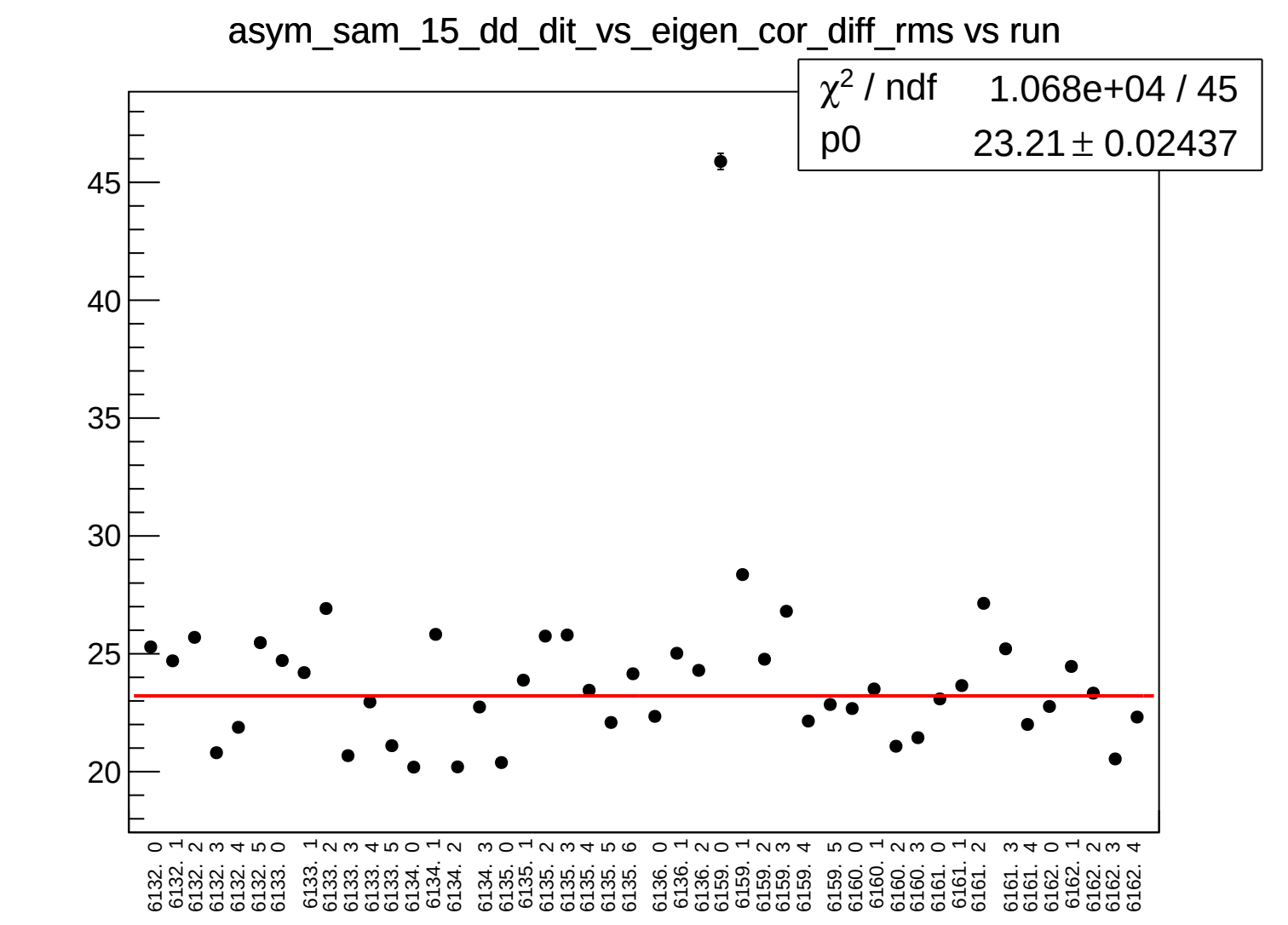
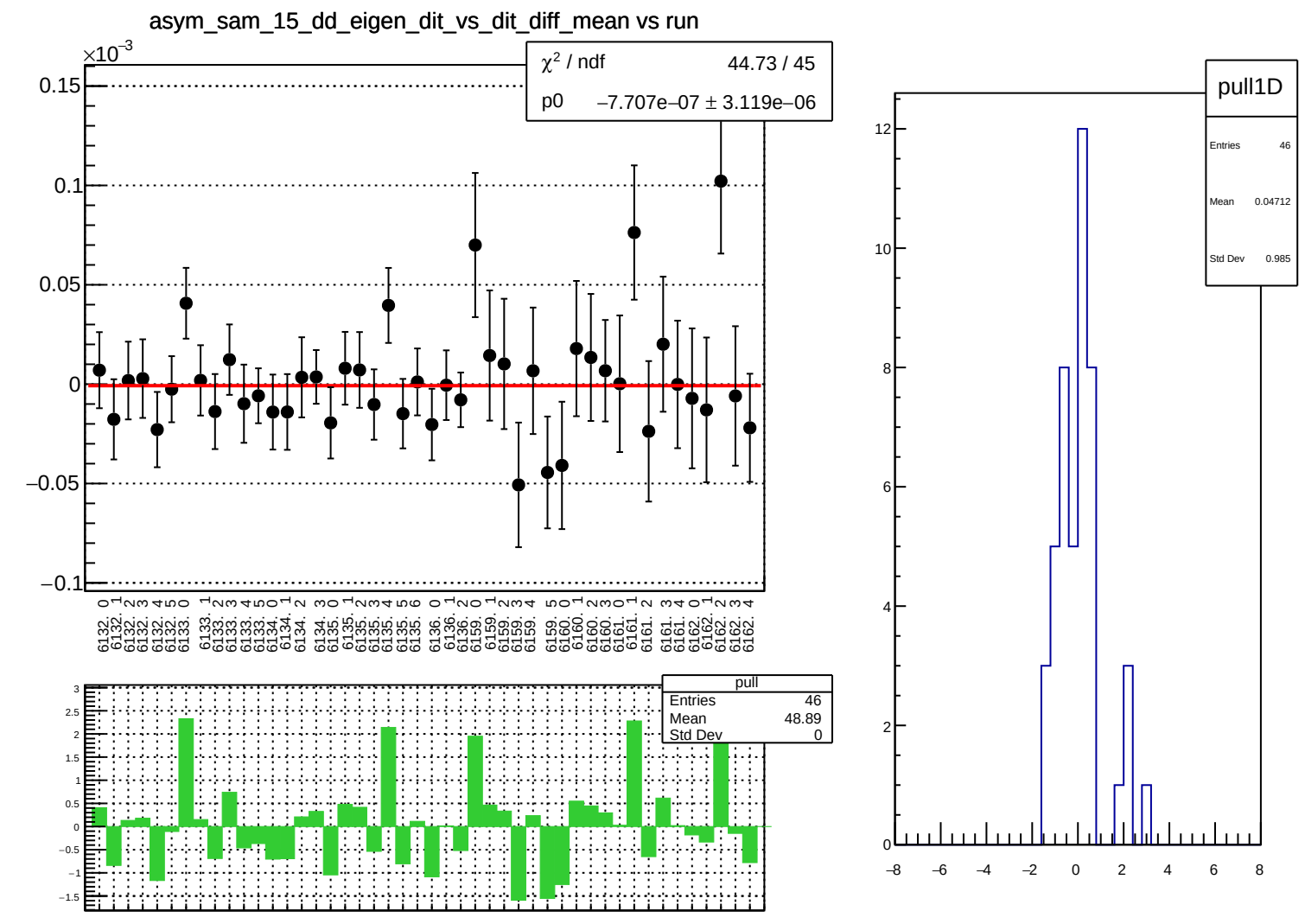
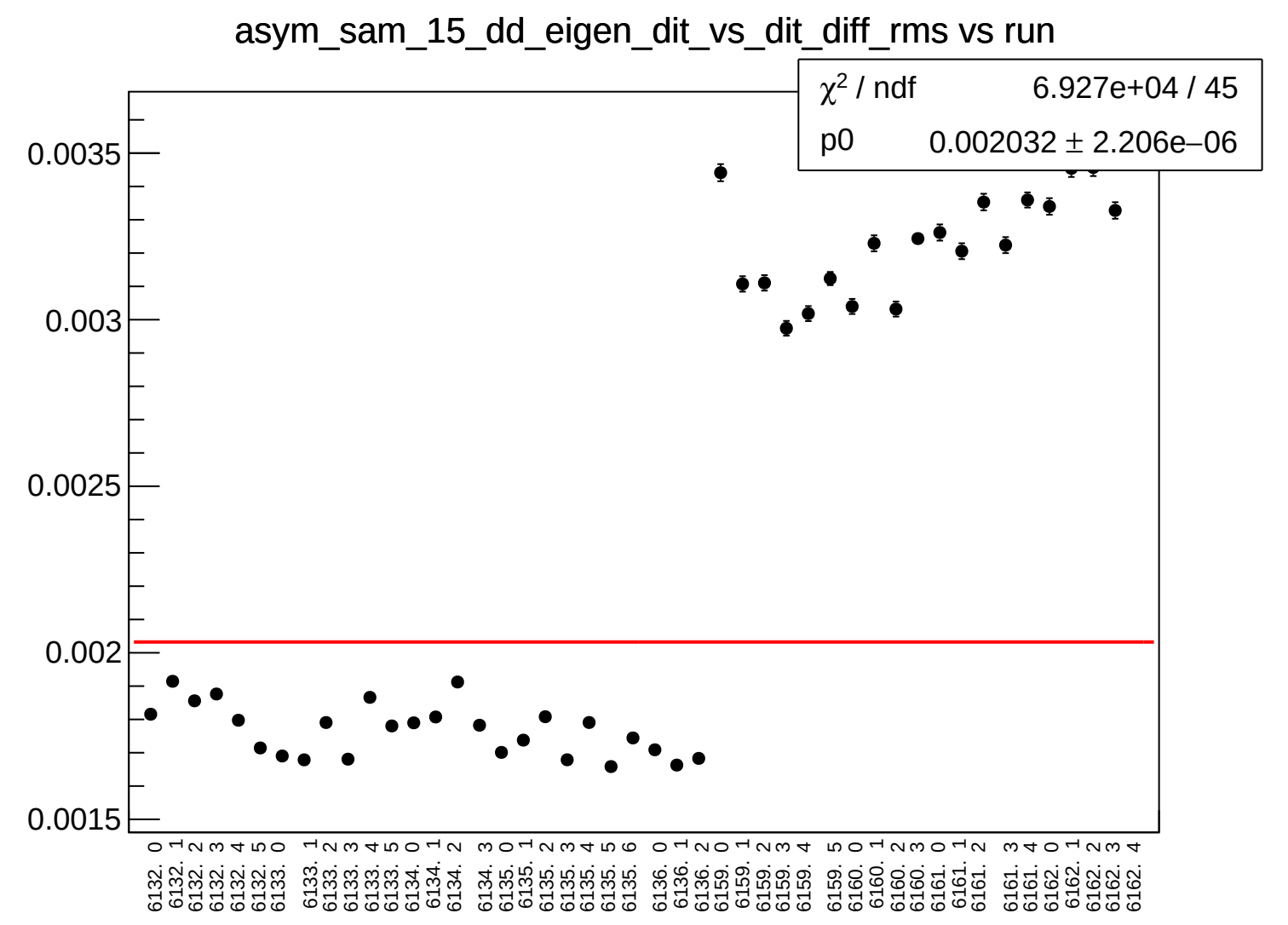
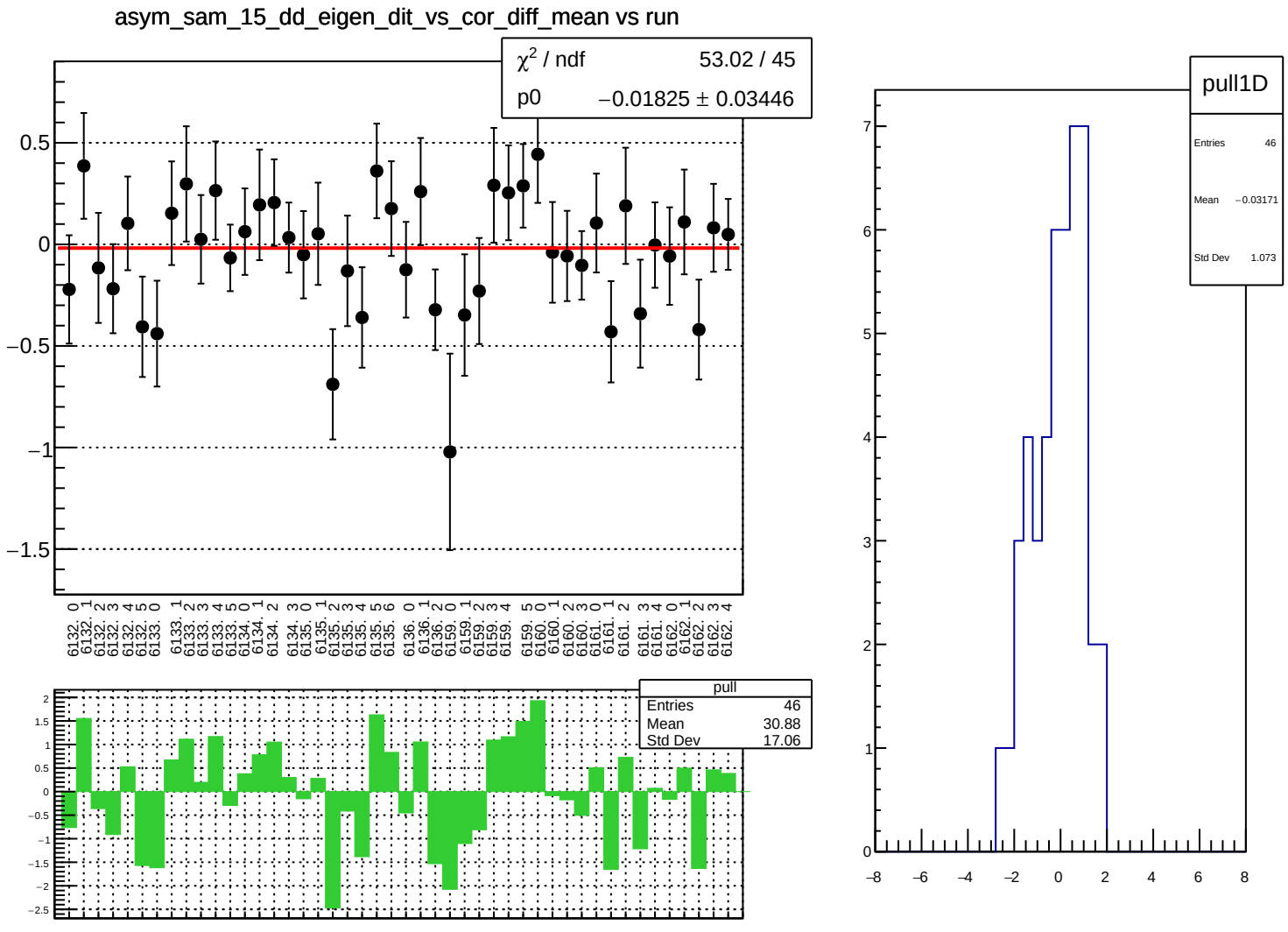
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

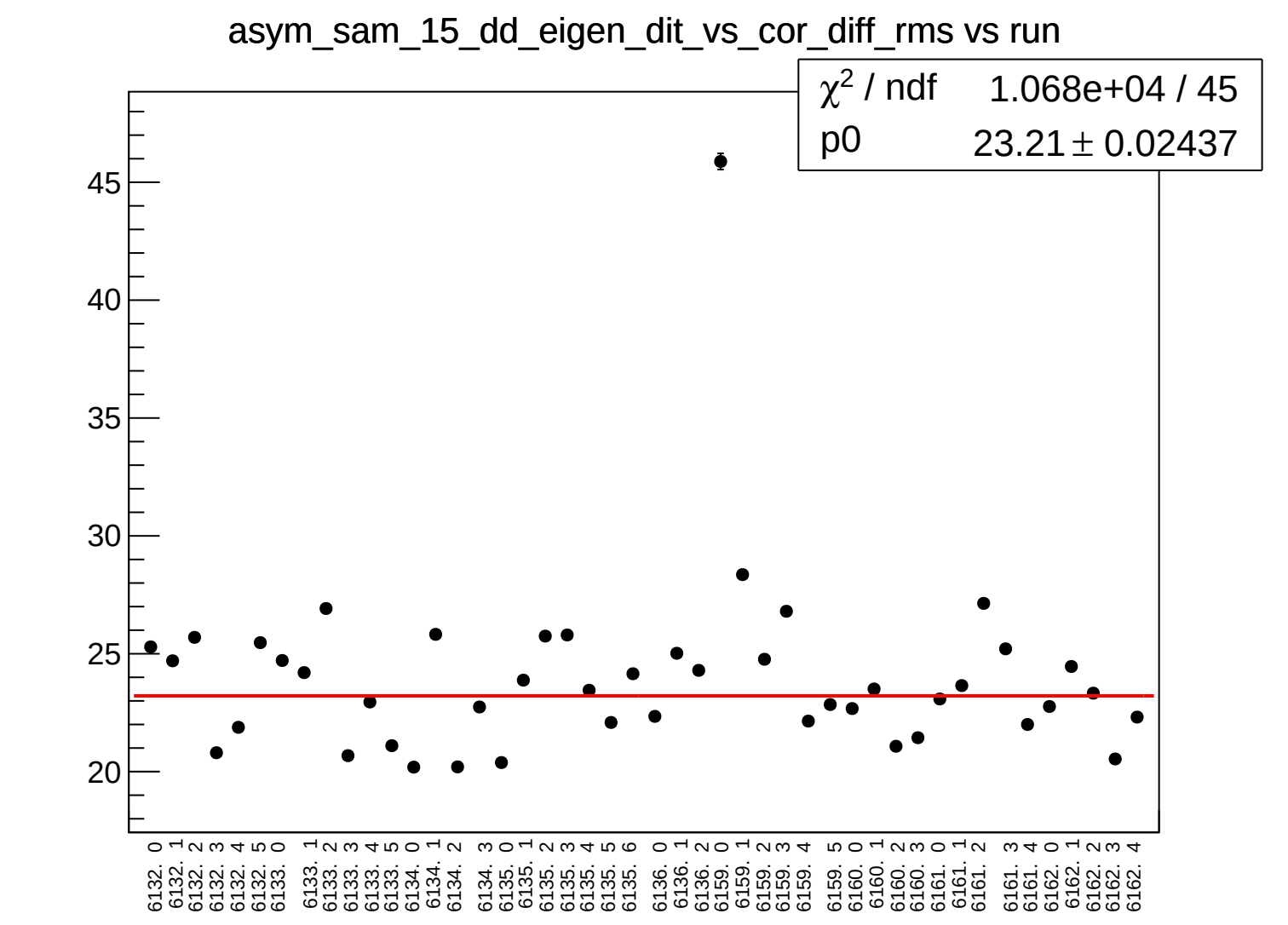

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 53.02 / 45
p0 −0.01826 ± 0.03446
0.5
0
−0.5
−1
−1.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 30.88
Std Dev 17.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.03171
Std Dev 1.073
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

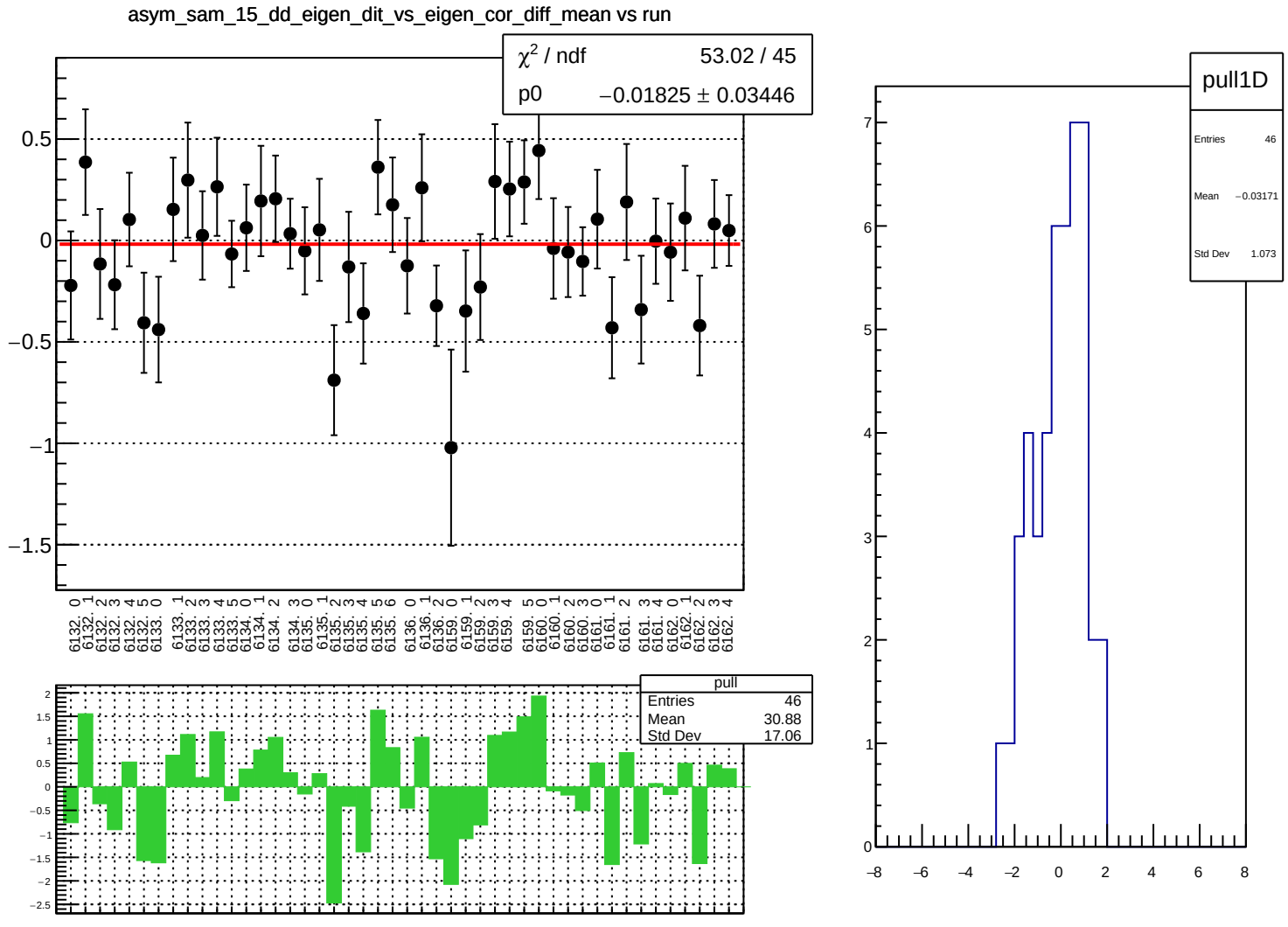

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.068e+04 / 45
p0 23.21 ± 0.02437
45
40
35
30
25
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

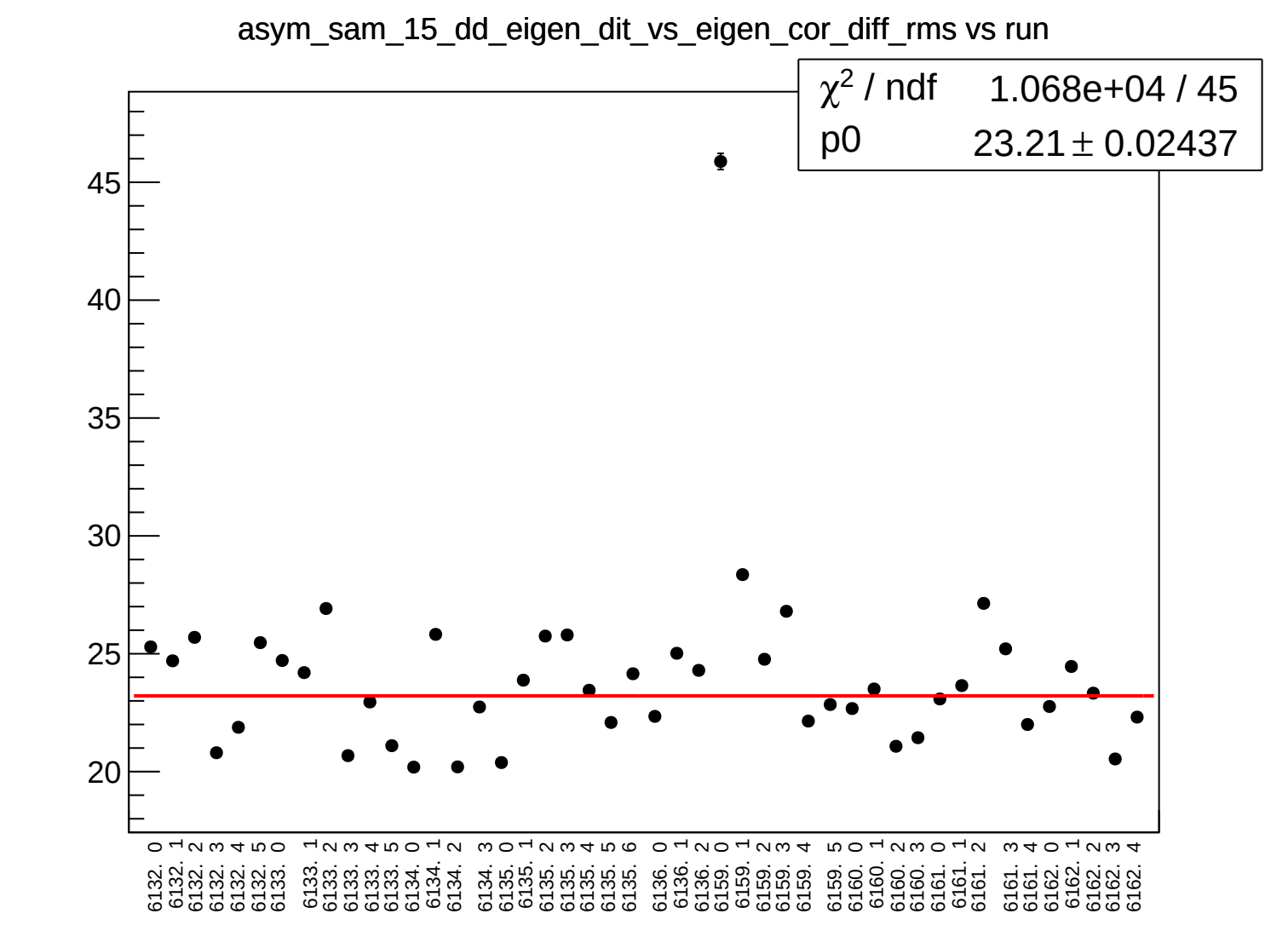

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 44.73 / 45
p0 −7.707e−07 ± 3.119e−06
0.15
0.1
0.05
0
−0.05
−0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 48.89
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.04712
Std Dev 0.985
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

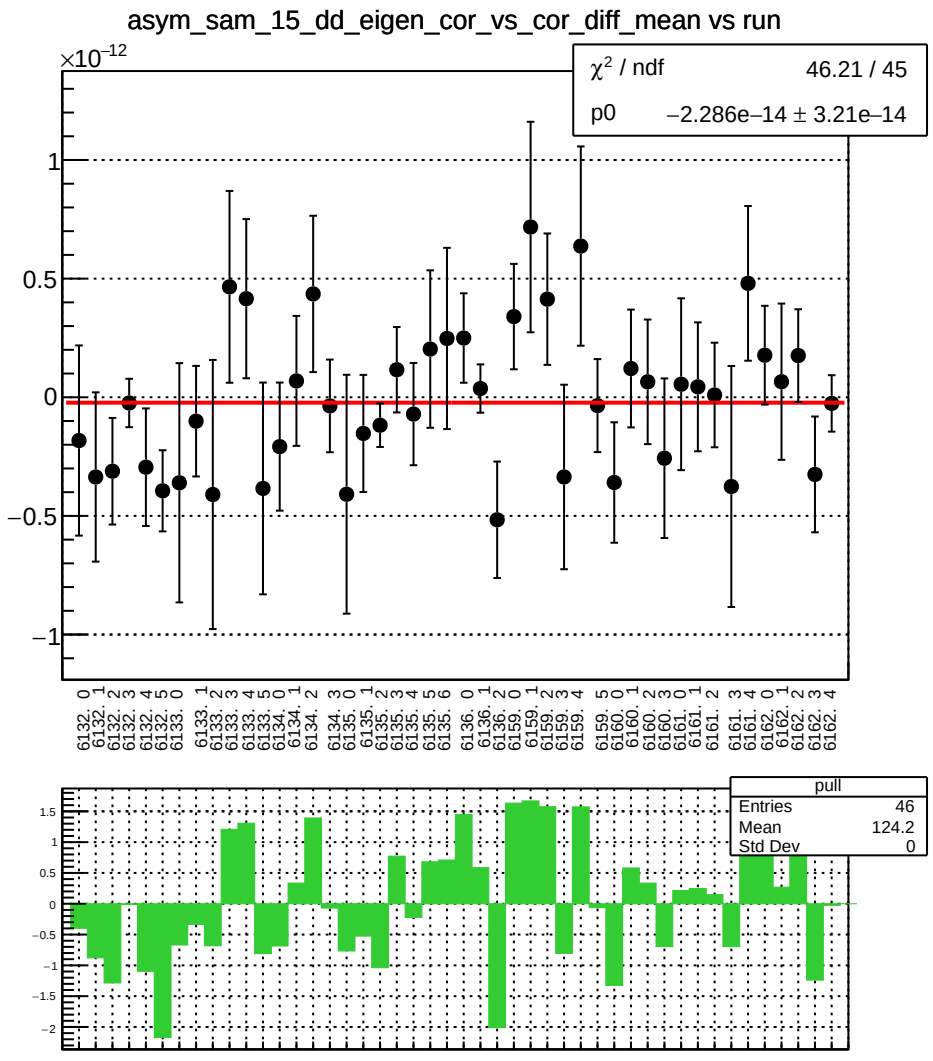

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.927e+04 / 45
p0 0.002032 ± 2.206e−06
0.0035
0.003
0.0025
0.002
0.0015
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

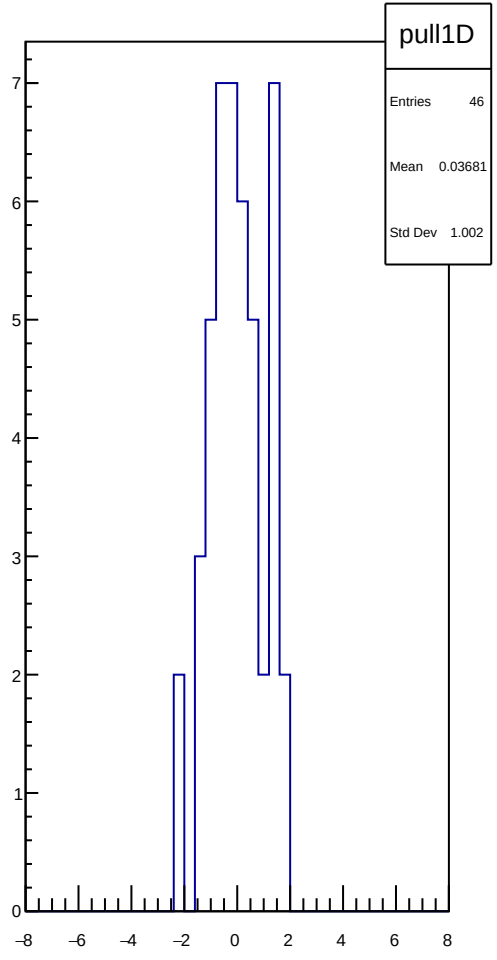

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 53.02 / 45
p0 −0.01825 ± 0.03446
0.5
0
−0.5
−1
−1.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 30.88
Std Dev 17.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.03171
Std Dev 1.073
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

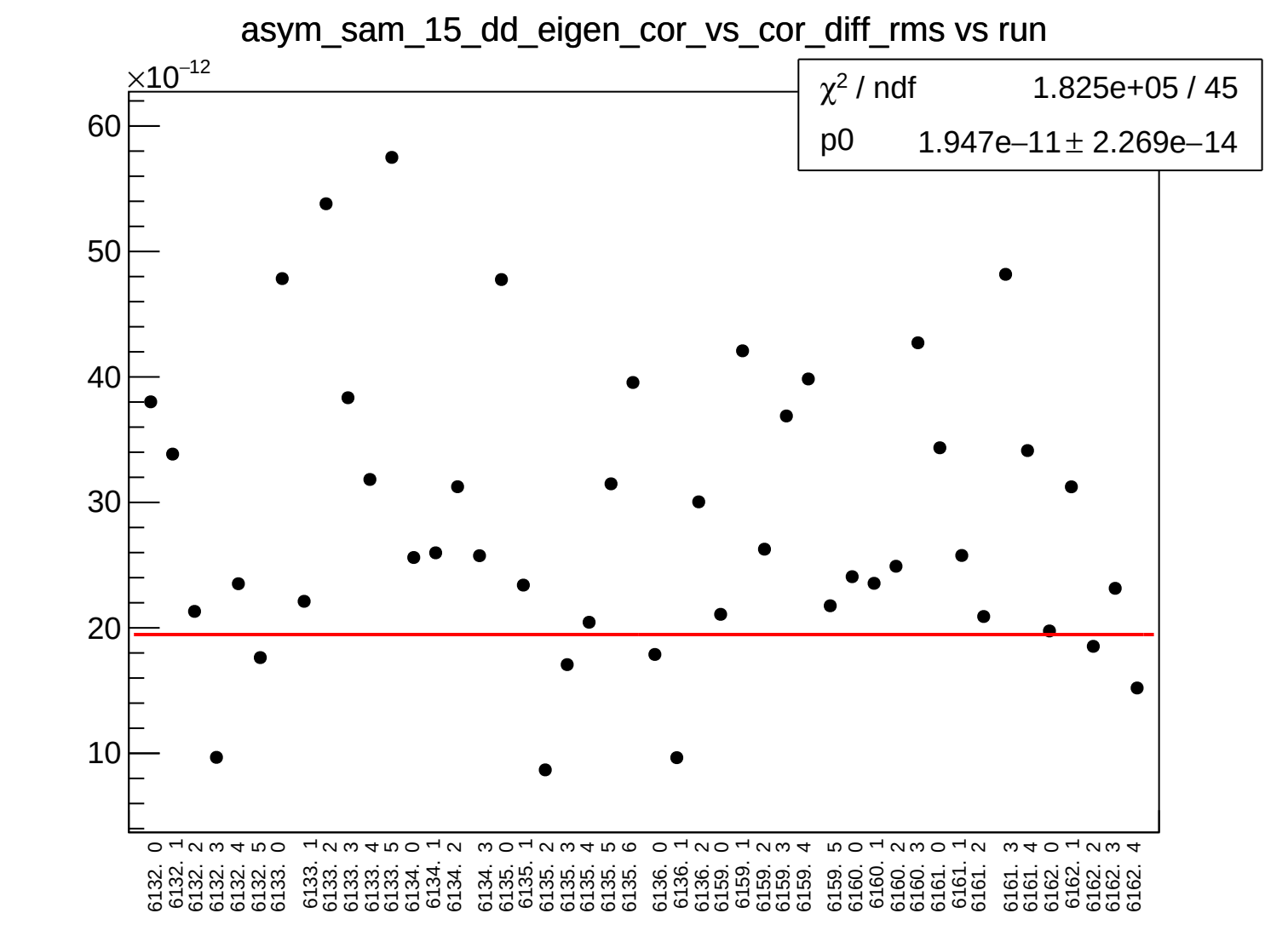

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.068e+04 / 45
p0 23.21 ± 0.02437
45
40
35
30
25
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

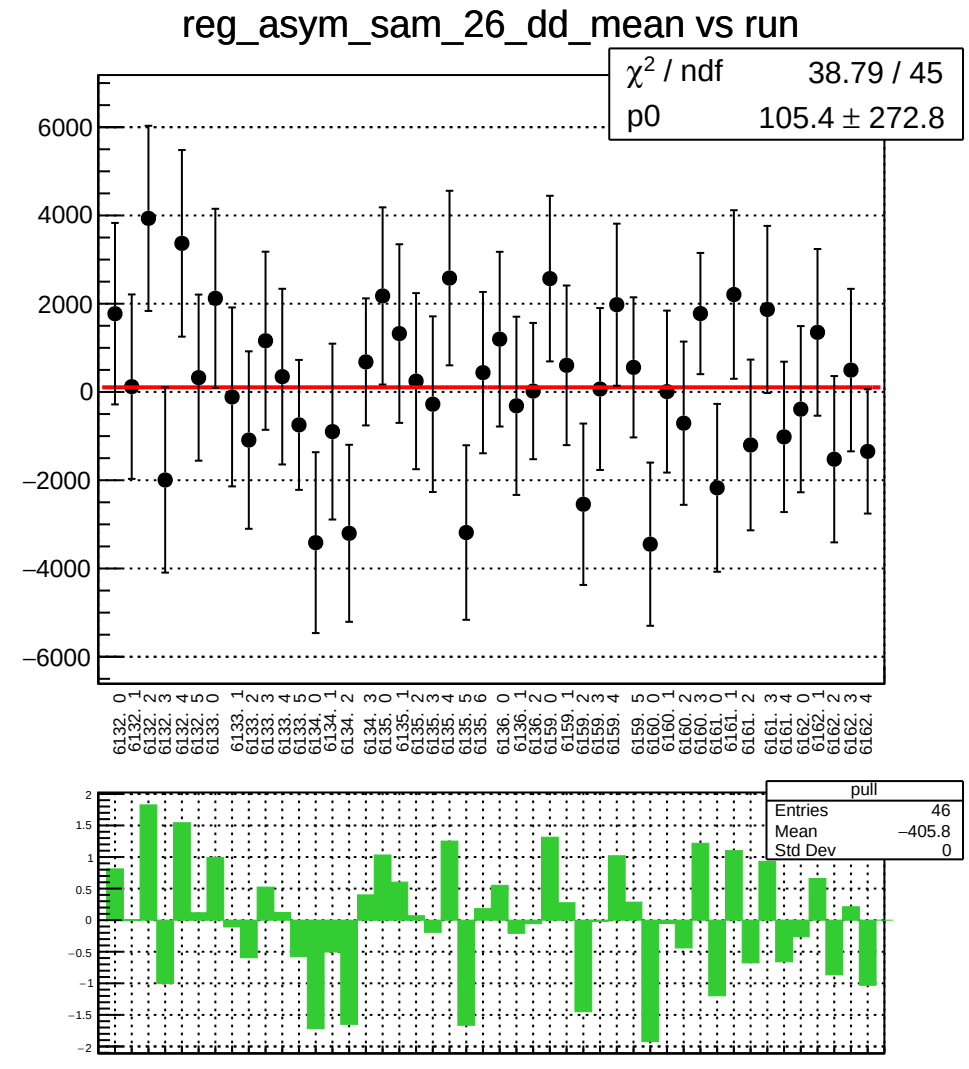

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 53.02 / 45
p0 −0.01825 ± 0.03446
pull
Entries 46
Mean 30.88
Std Dev 17.06
pull1D
Entries 46
Mean −0.03171
Std Dev 1.073

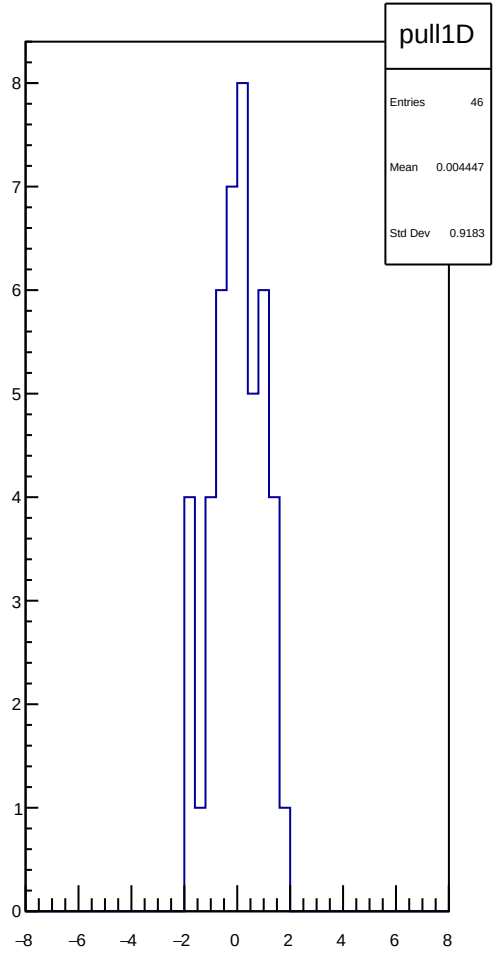

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.068e+04 / 45
p0 23.21 ± 0.02437
45
40
35
30
25
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

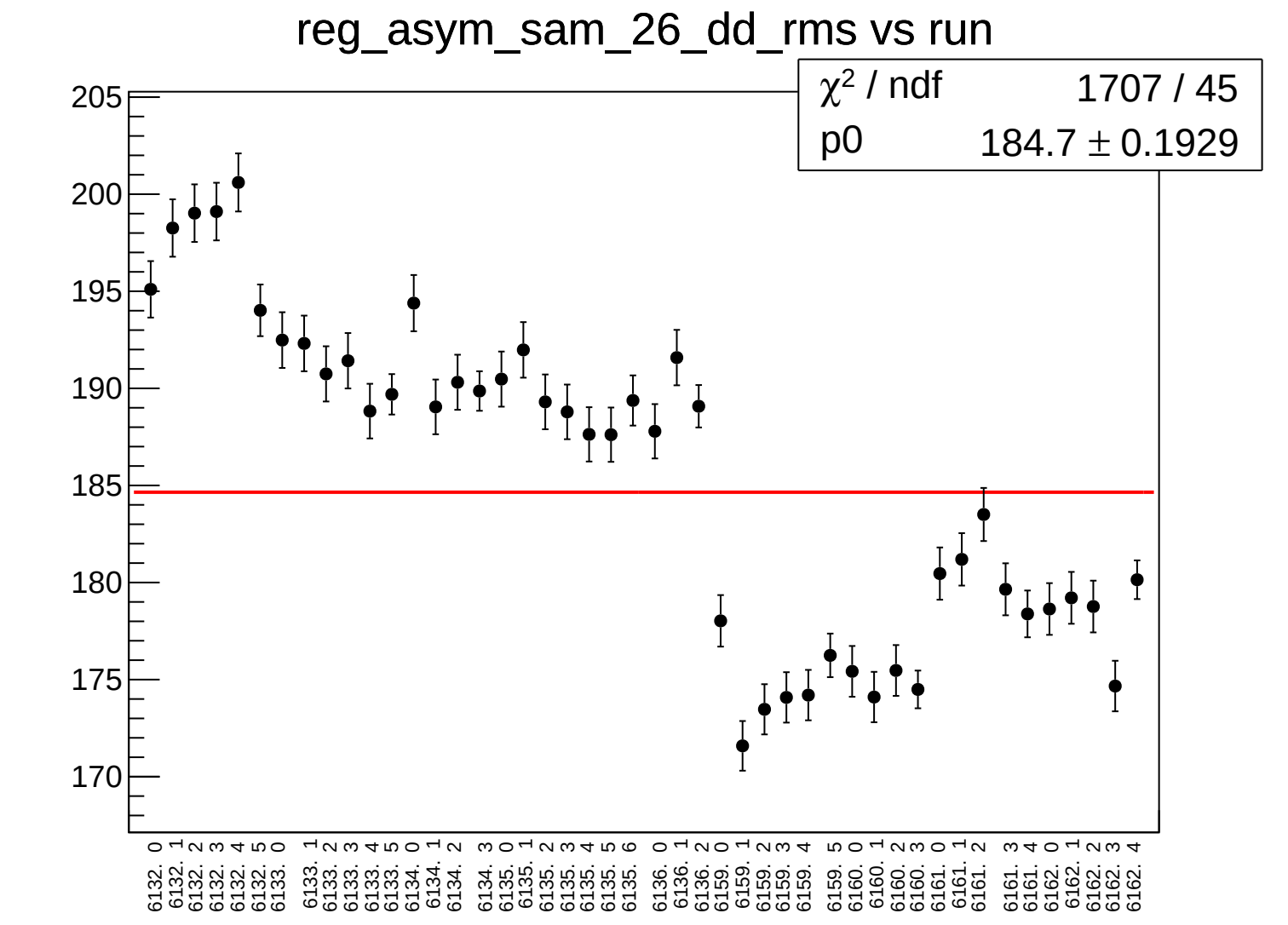

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 46.21 / 45
p0 −2.286e−14 ± 3.21e−14
pull
Entries 46
Mean 124.2
Std Dev 0

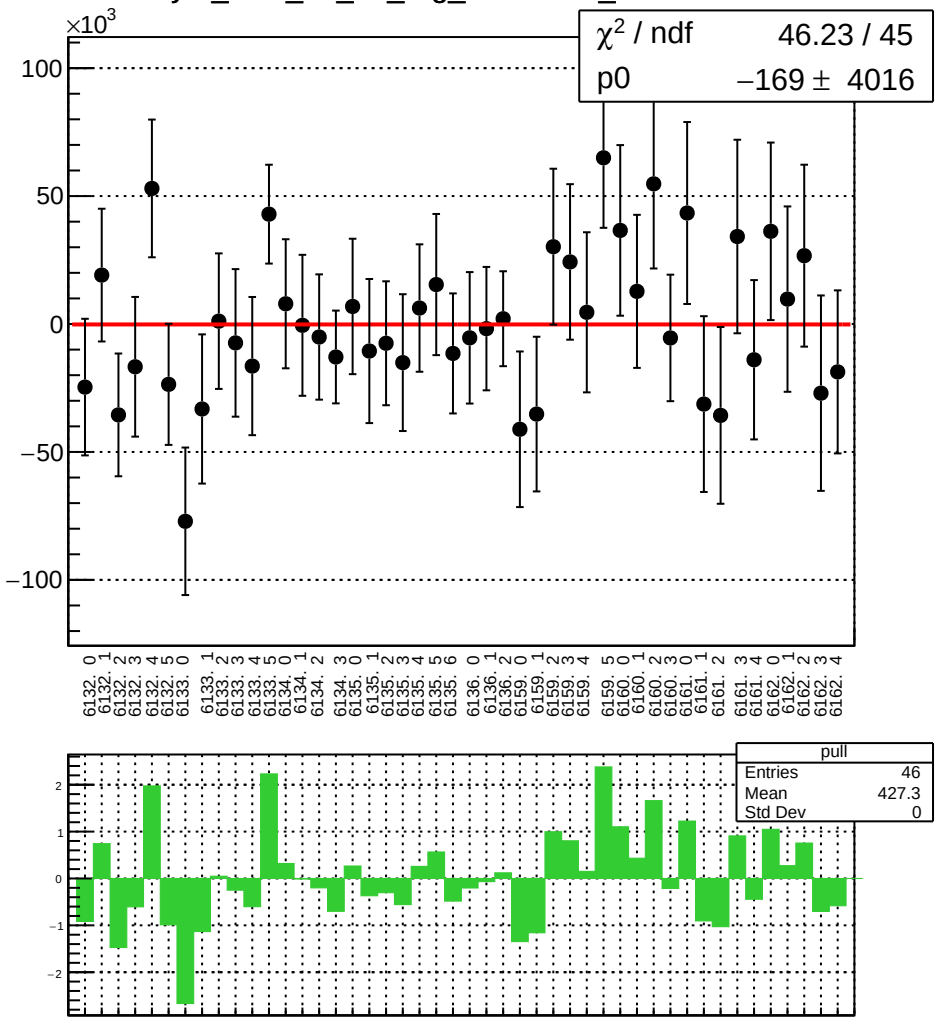

pull1D
Entries 46
Mean 0.03681
Std Dev 1.002

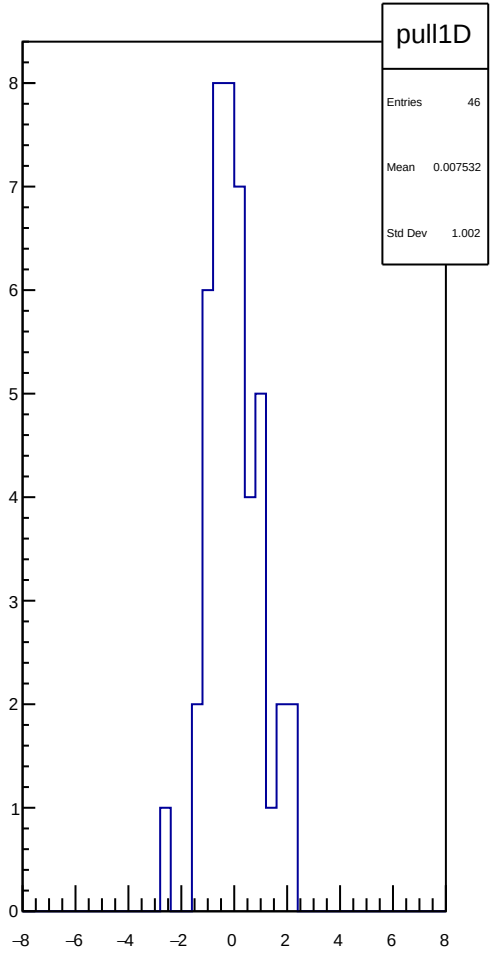

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.825e+05 / 45
p0 1.947e−11 ± 2.269e−14
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

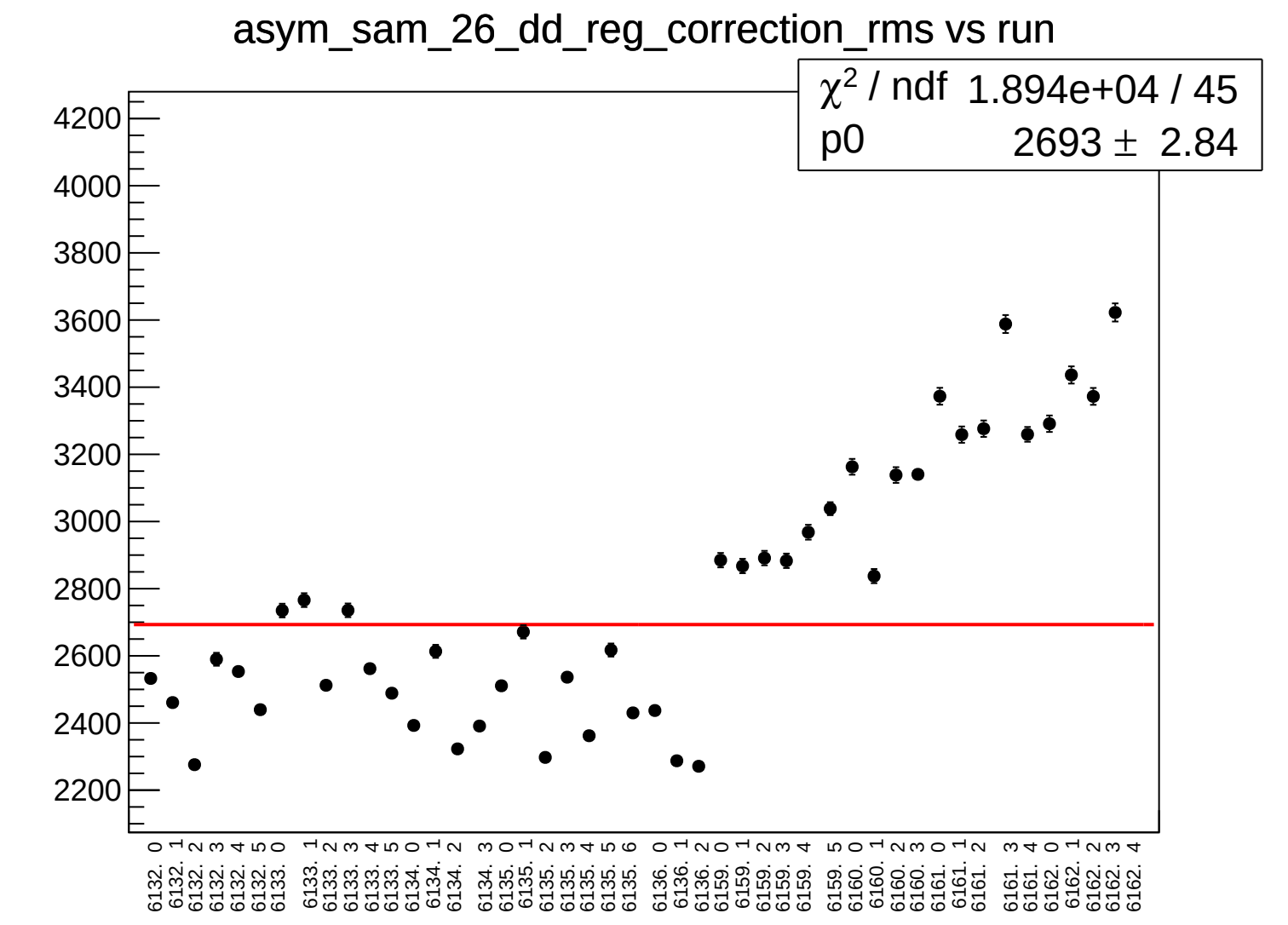

reg_asym_sam_26_dd_mean vs run
χ² / ndf 38.79 / 45
p0 105.4 ± 272.8
6000
4000
2000
0
−2000
−4000
−6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −405.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

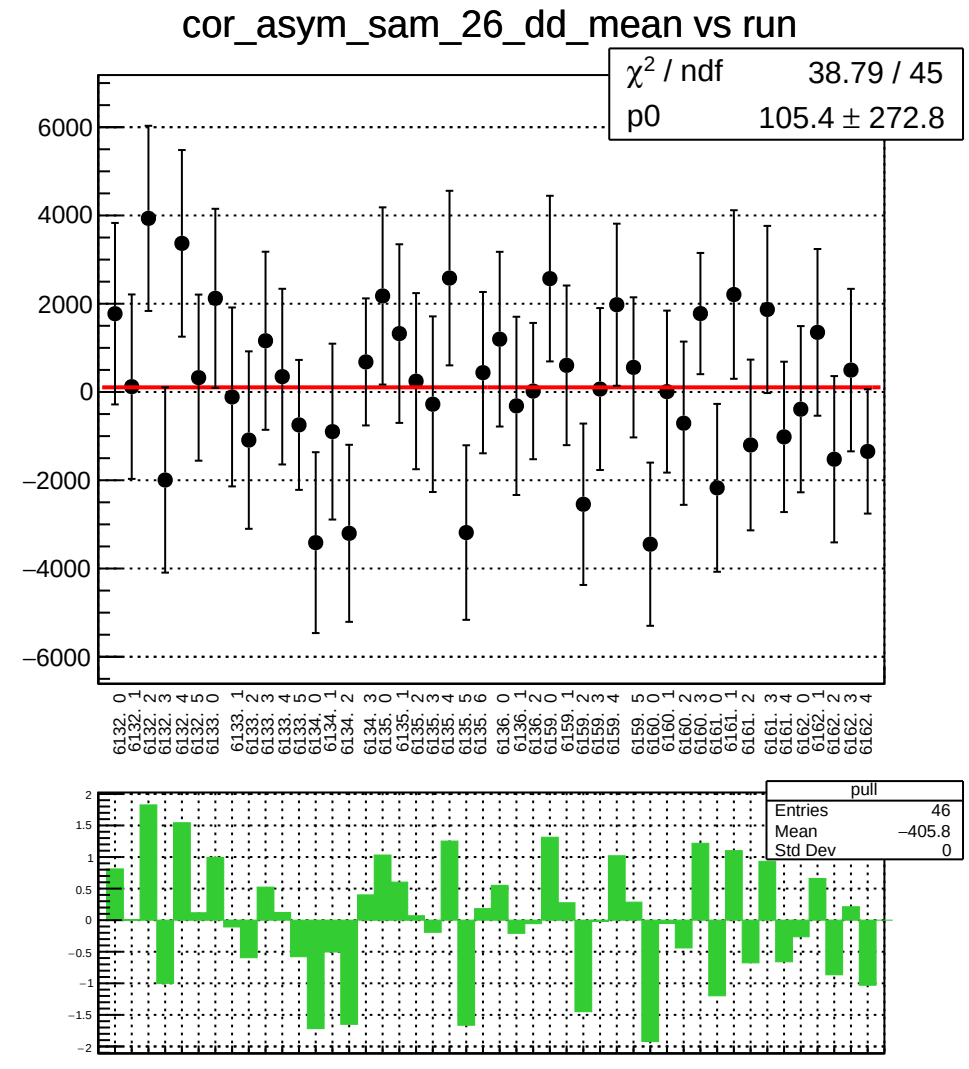

pull1D
Entries 46
Mean 0.004447
Std Dev 0.9183
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_26_dd_rms vs run
χ² / ndf 1707 / 45
p0 184.7 ± 0.1929
205
200
195
190
185
180
175
170
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ² / ndf 46.23 / 45
p0 −169 ± 4016
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 427.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.007532
Std Dev 1.002
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 1.894e+04 / 45
p0 2693 ± 2.84
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_sam_26_dd_mean vs run
χ² / ndf 38.79 / 45
p0 105.4 ± 272.8
6000
4000
2000
0
−2000
−4000
−6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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6161. 0
6161. 1
6161. 2
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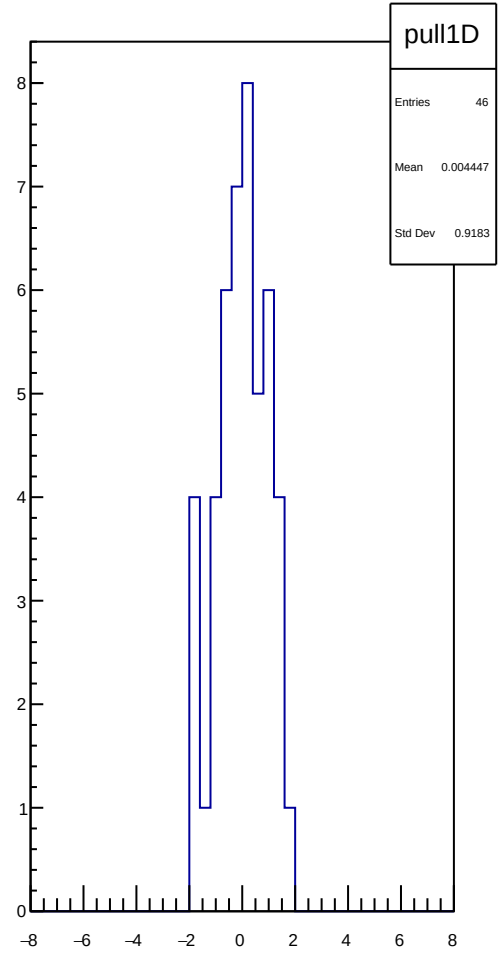
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −405.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.004447
Std Dev 0.9183
8
7
6
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−4
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6
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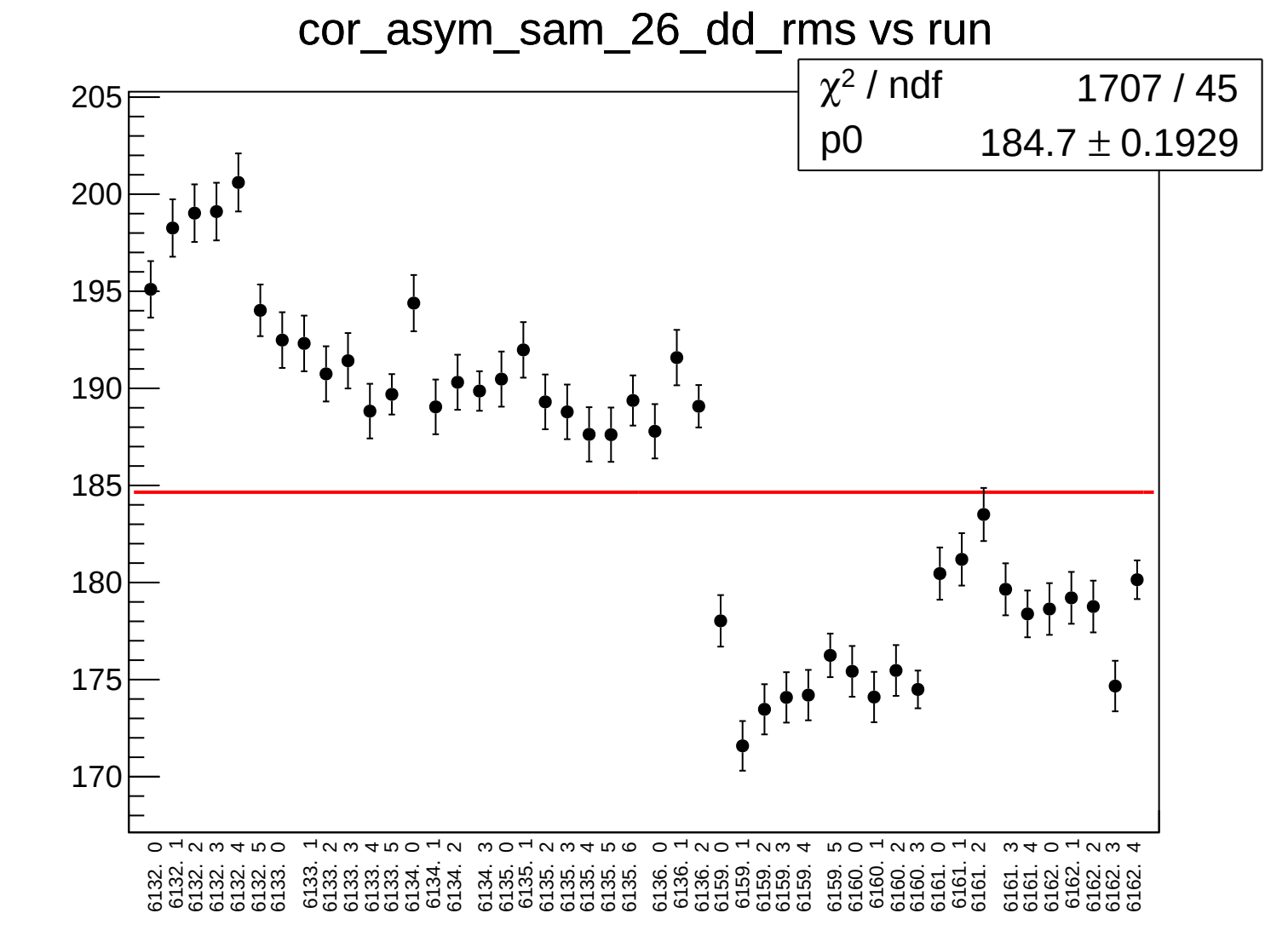
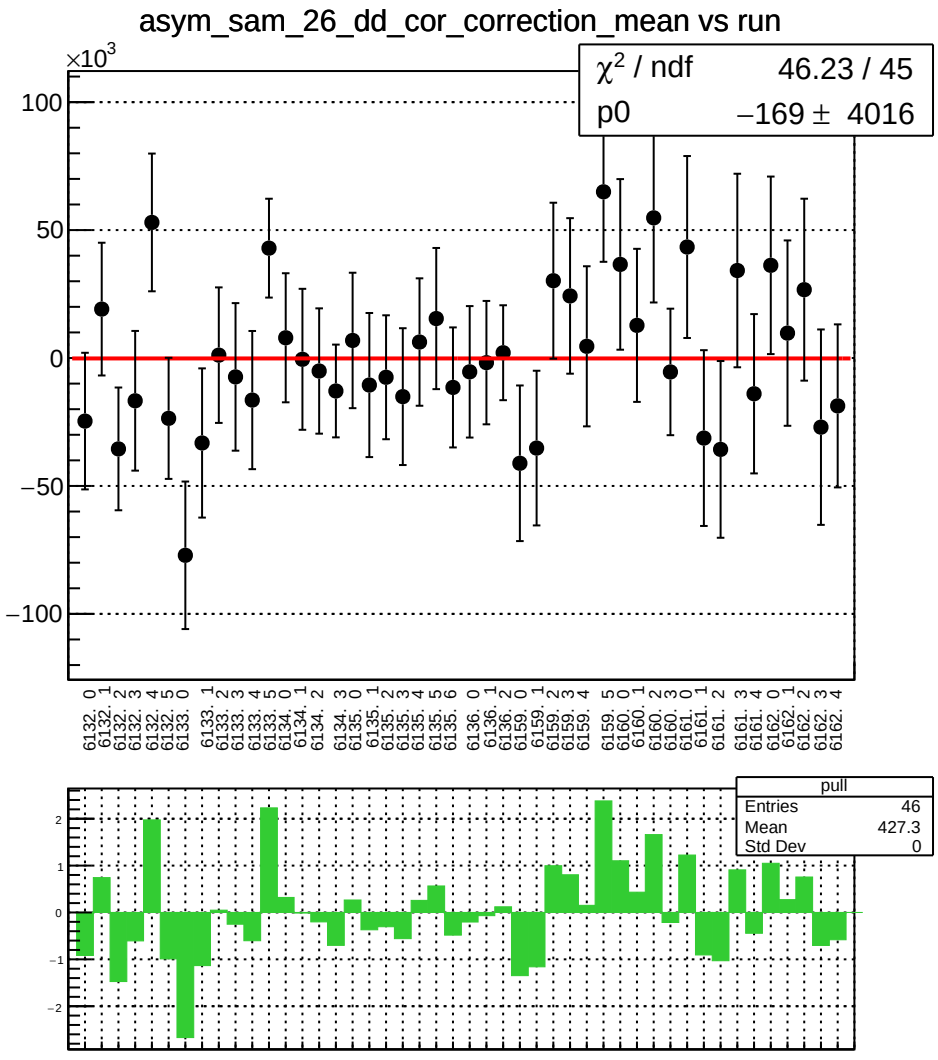
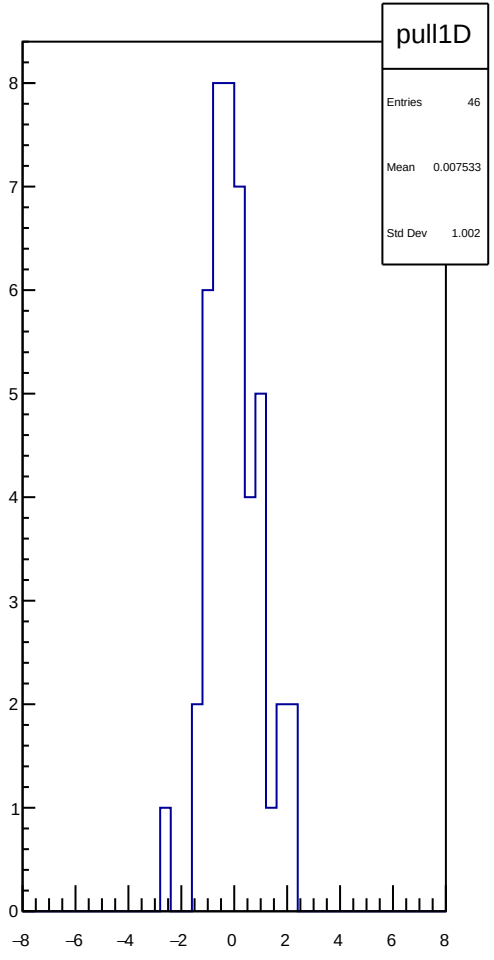

cor_asym_sam_26_dd_rms vs run
χ² / ndf 1707 / 45
p0 184.7 ± 0.1929
205
200
195
190
185
180
175
170
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 46.23 / 45
p0 −169 ± 4016
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 427.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.007533
Std Dev 1.002
8
7
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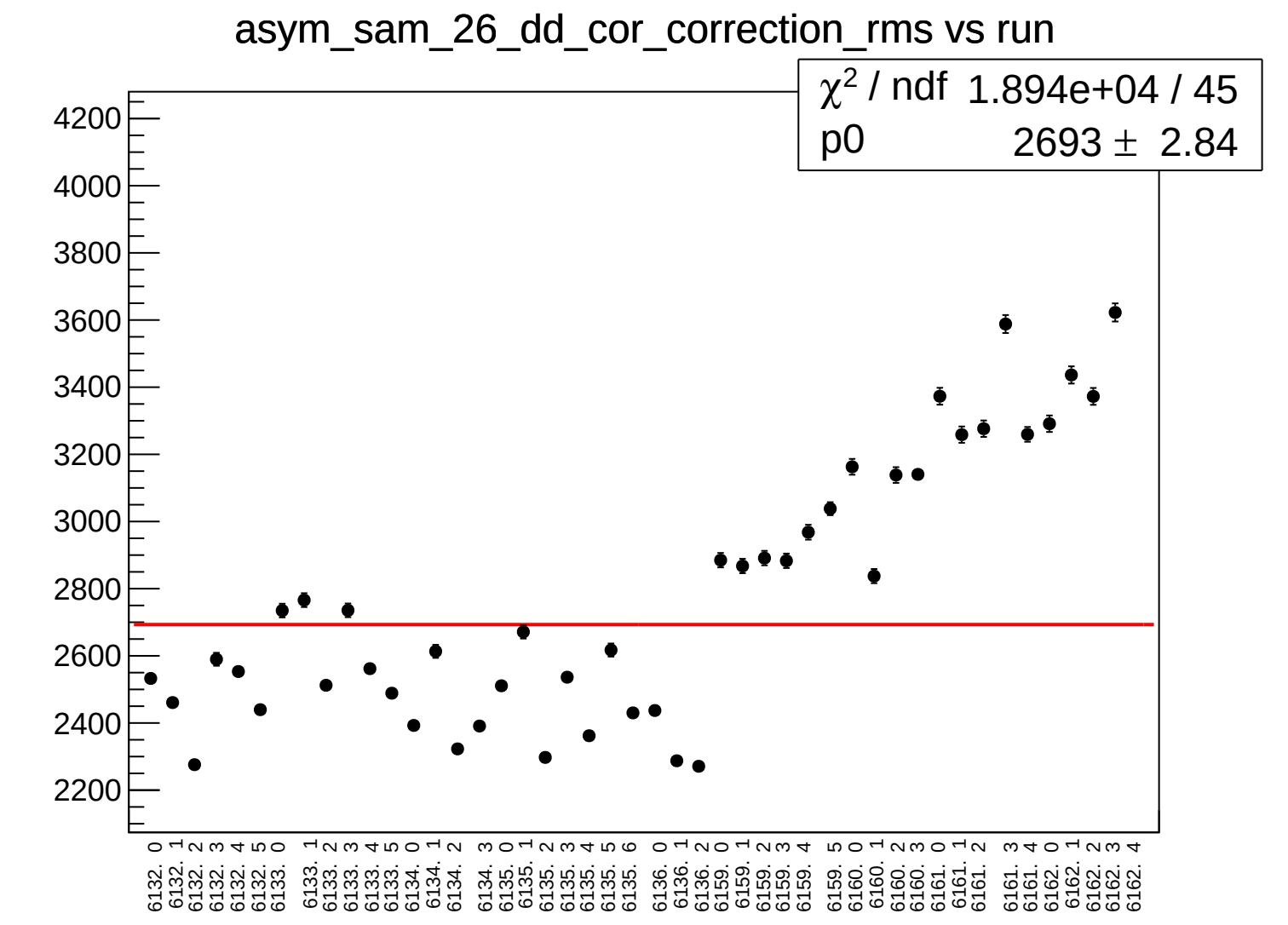
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 1.894e+04 / 45
p0 2693 ± 2.84
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6162. 2
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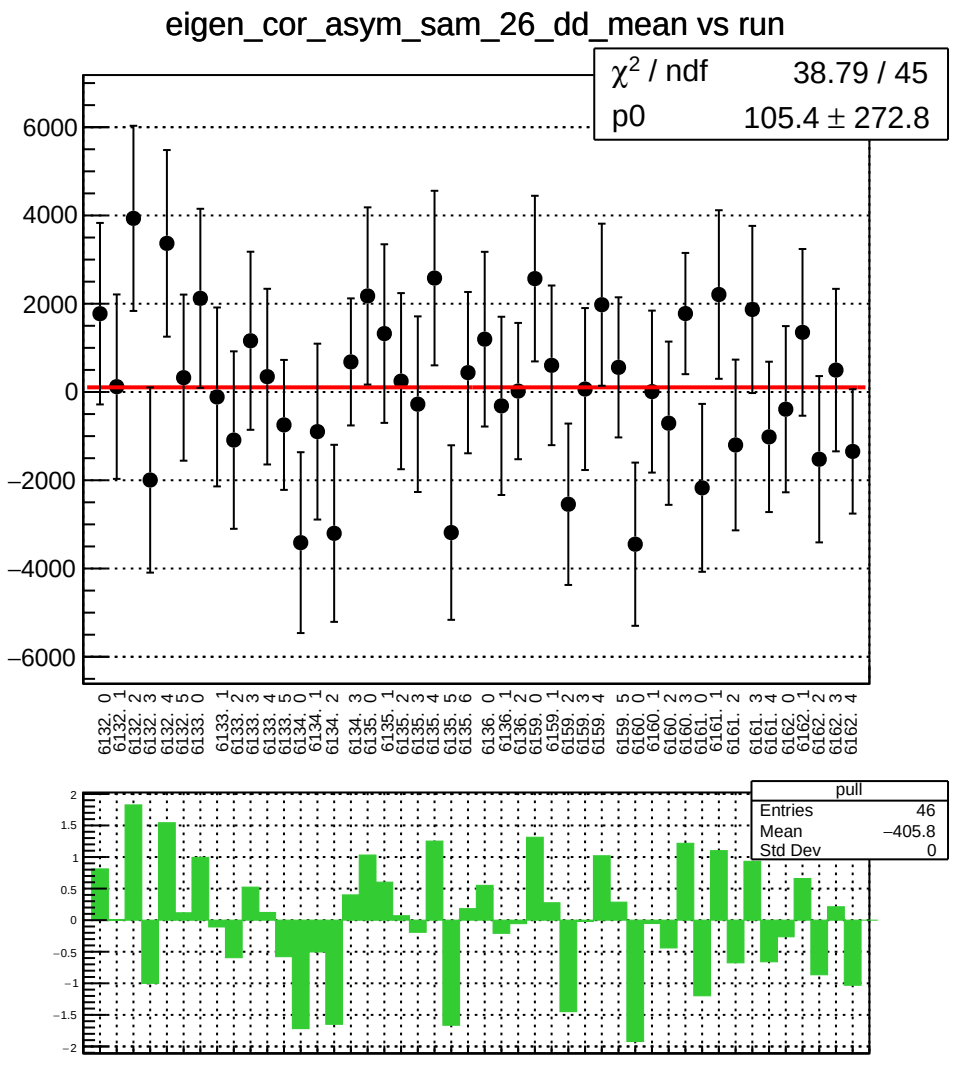
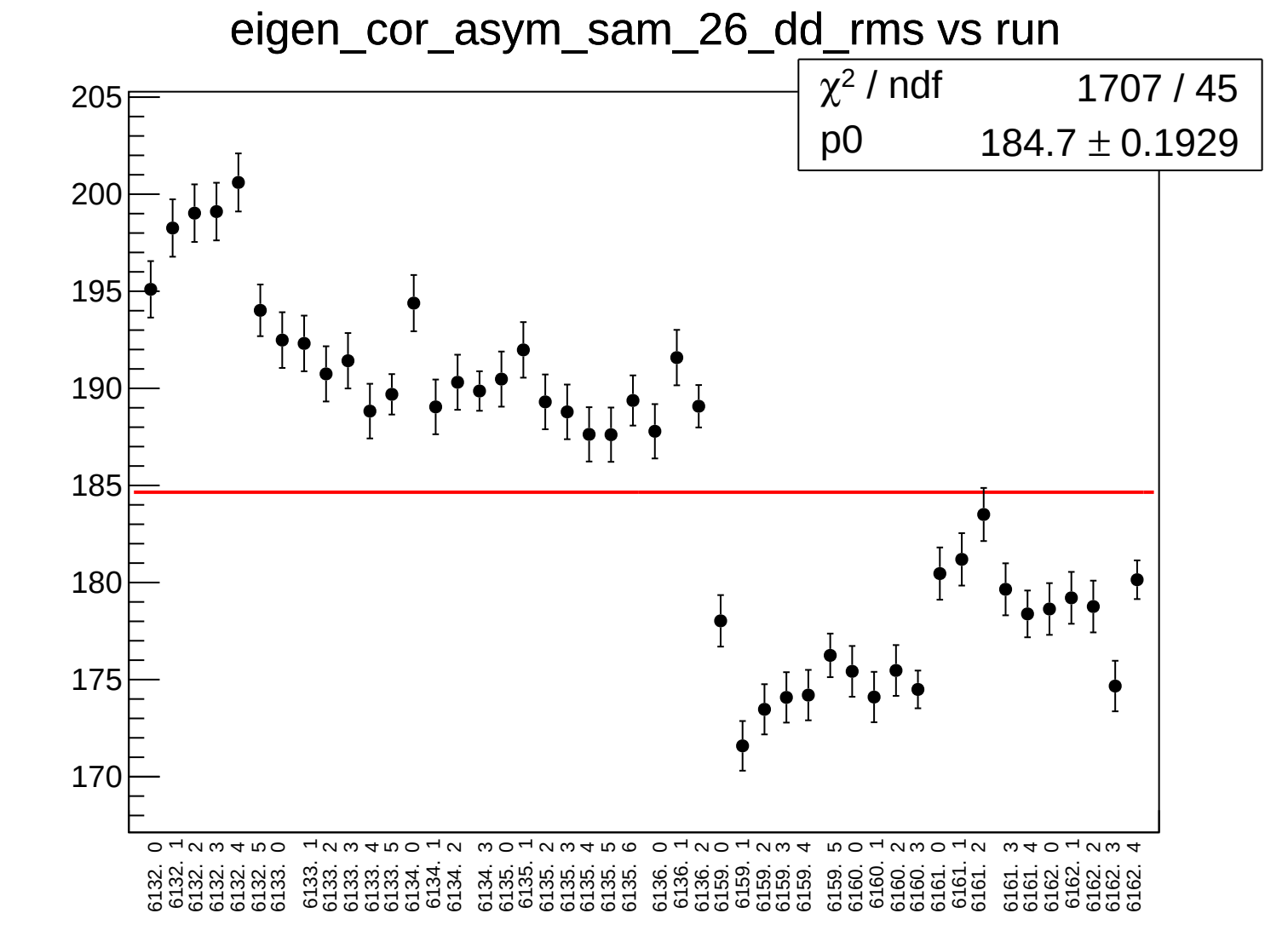
6162. 4


eigen_cor_asym_sam_26_dd_mean vs run
χ^2 / ndf 38.79 / 45
p0 105.4 ± 272.8
6000
4000
2000
0
−2000
−4000
−6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −405.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.004447
Std Dev 0.9183
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 1707 / 45
p0 184.7 ± 0.1929
205
200
195
190
185
180
175
170
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
6161. 3
6161. 4
6162. 0
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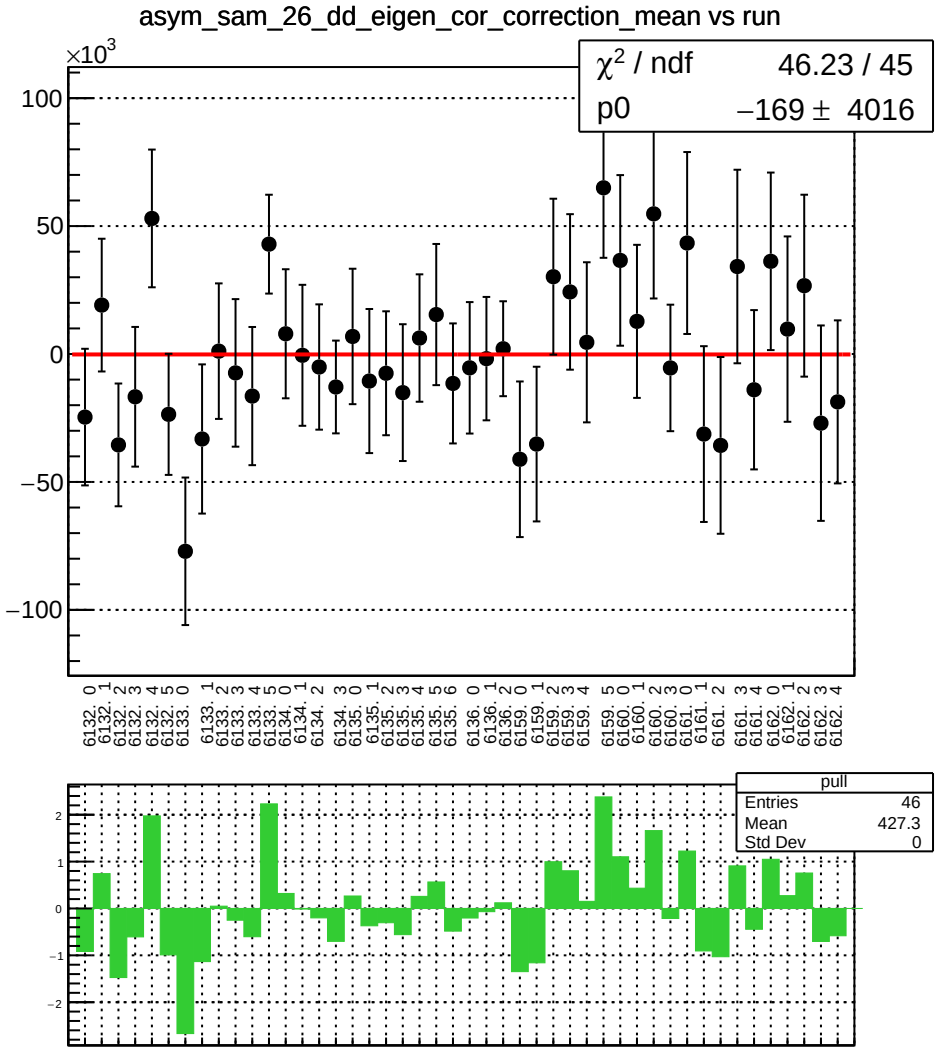
6162. 2
6162. 3
6162. 4


asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 46.23 / 45
p0 −169 ± 4016
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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6159. 2
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6159. 5
6160. 0
6160. 1
6160. 2
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6161. 0
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6161. 4
6162. 0
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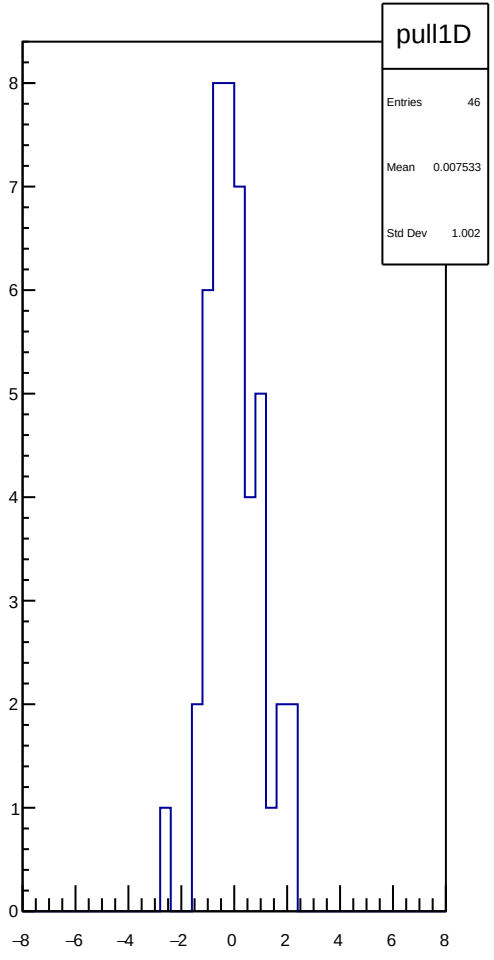
6162. 3
6162. 4
pull
Entries 46
Mean 427.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.007533
Std Dev 1.002
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7
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1
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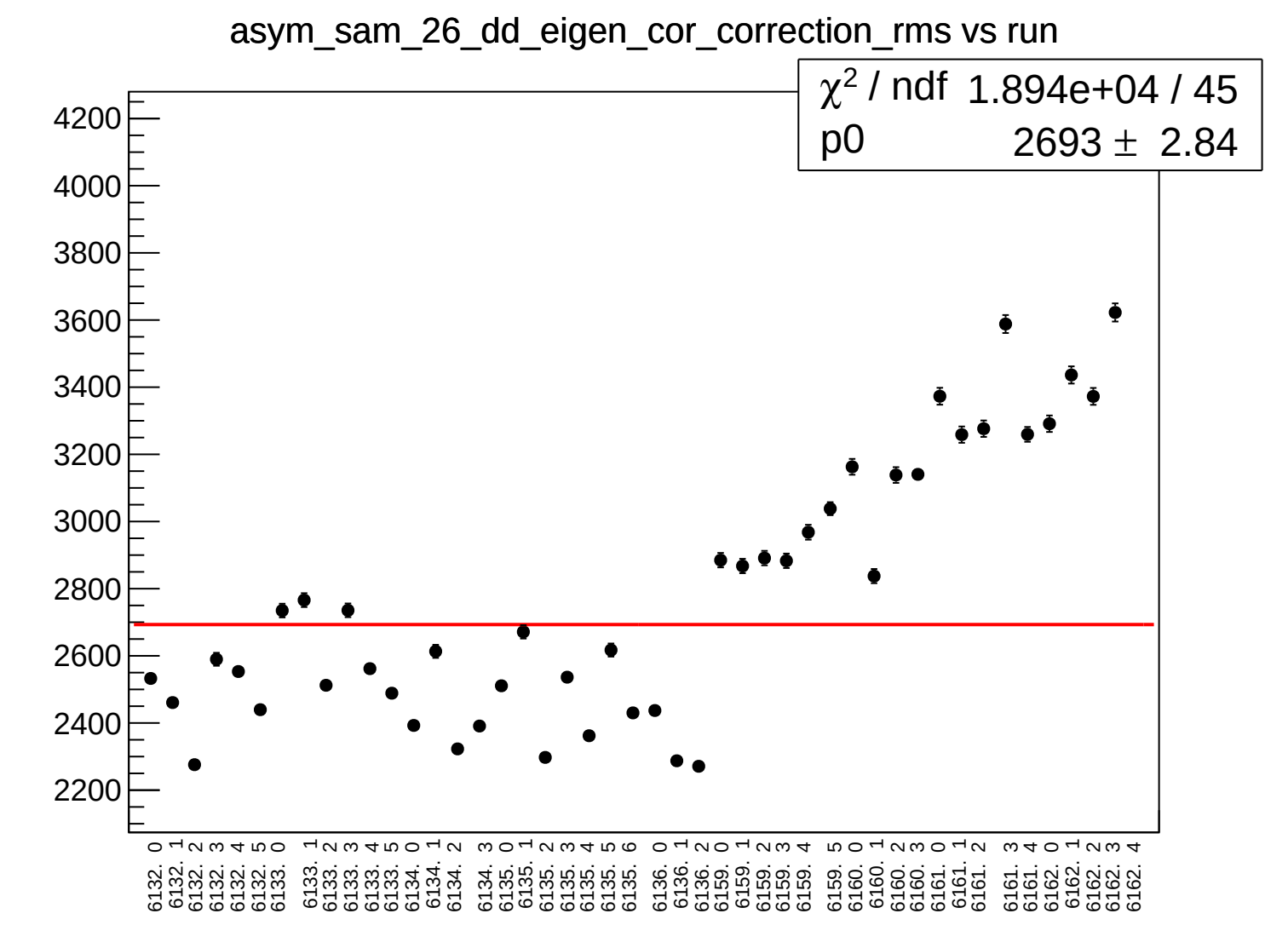
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.894e+04 / 45
p0 2693 ± 2.84
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
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6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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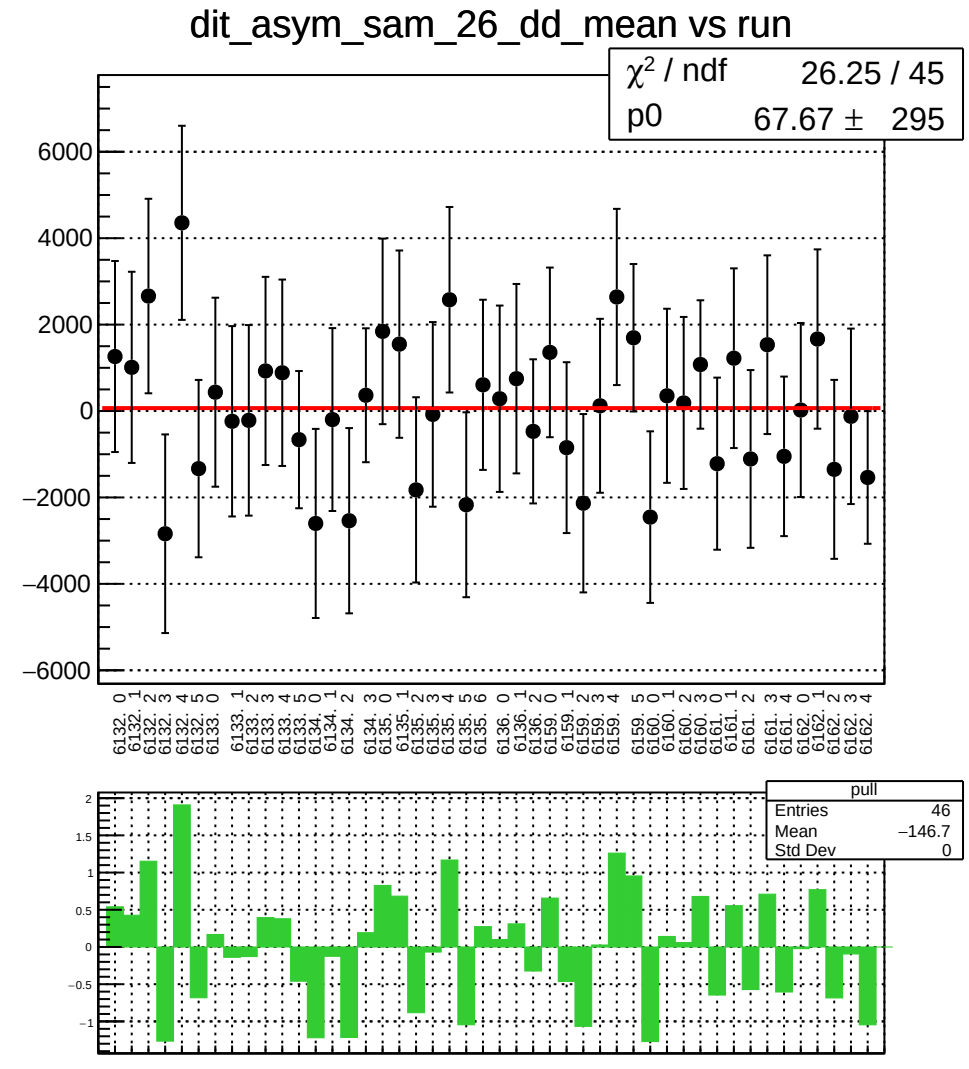
6162. 4


dit_asym_sam_26_dd_mean vs run
χ² / ndf 26.25 / 45
p0 67.67 ± 295
6000
4000
2000
0
−2000
−4000
−6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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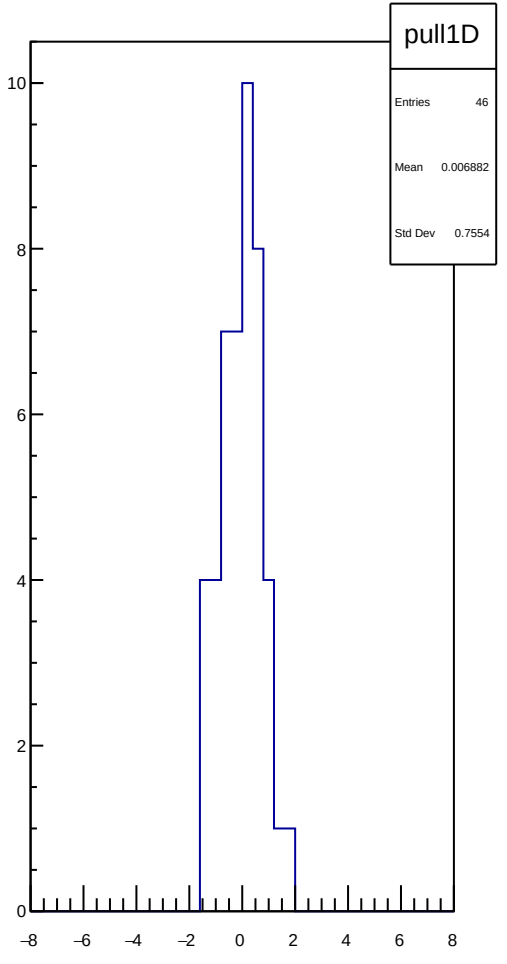
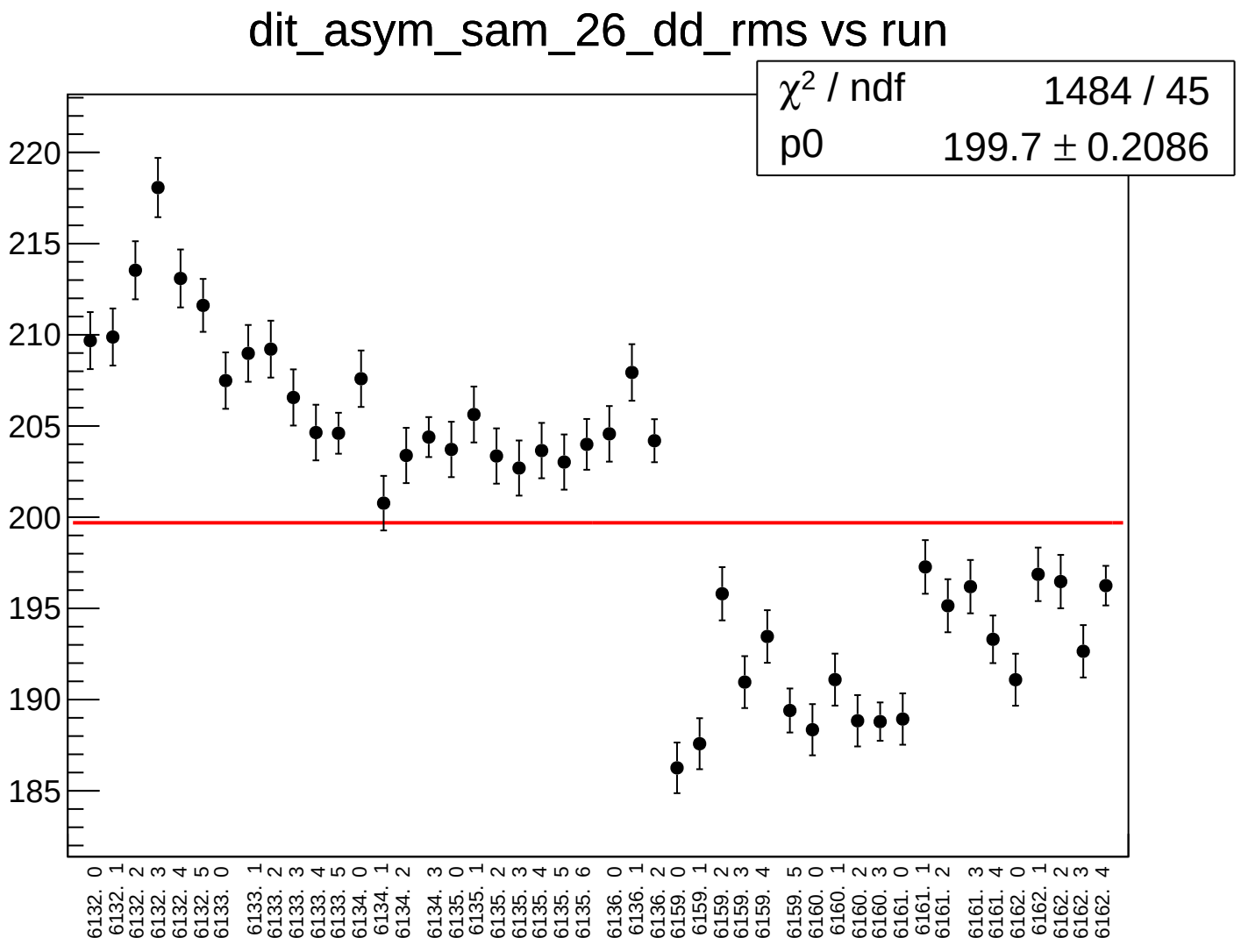
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −146.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 46
Mean 0.006882
Std Dev 0.7554
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_26_dd_rms vs run
χ² / ndf 1484 / 45
p0 199.7 ± 0.2086
220
215
210
205
200
195
190
185
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6135. 5
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6136. 1
6136. 2
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6159. 3
6159. 4
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6160. 1
6160. 2
6160. 3
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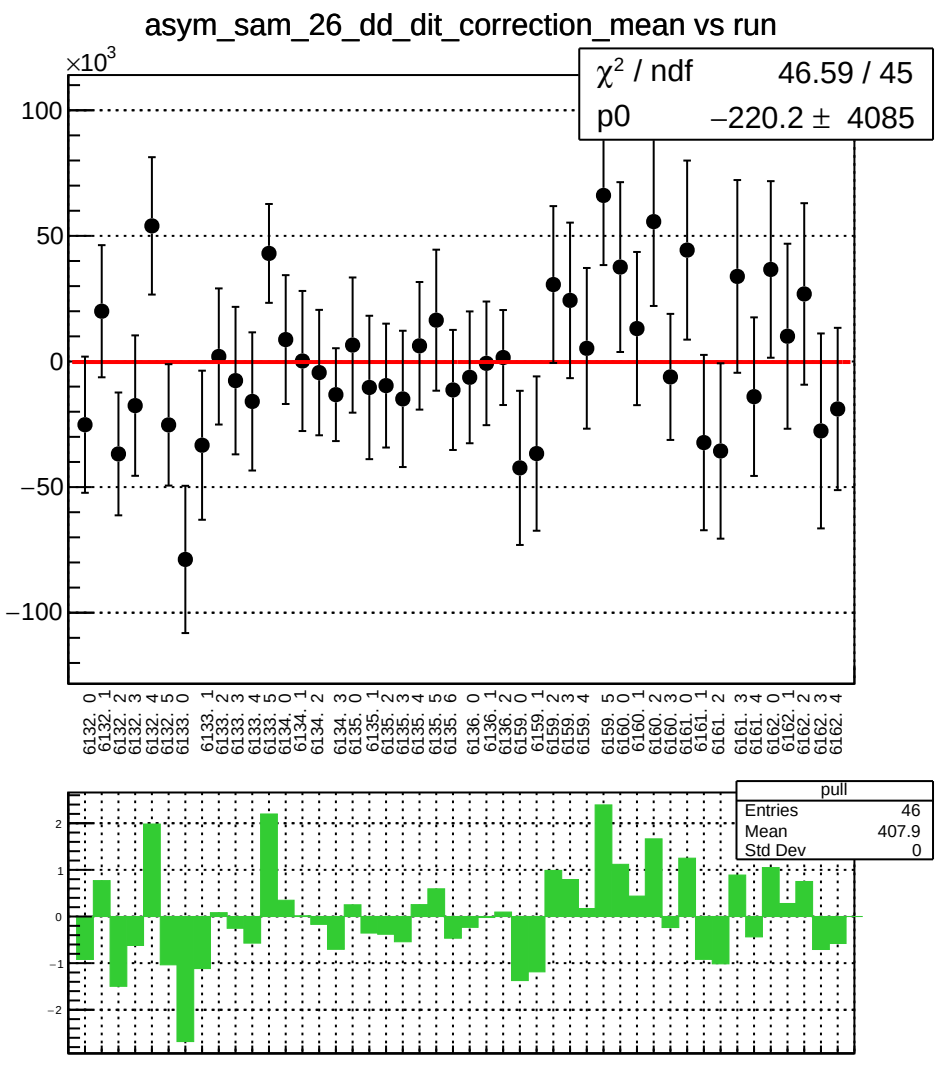
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 46.59 / 45
p0 −220.2 ± 4085
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
6134. 3
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6135. 2
6135. 3
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6135. 5
6135. 6
6136. 0
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6136. 2
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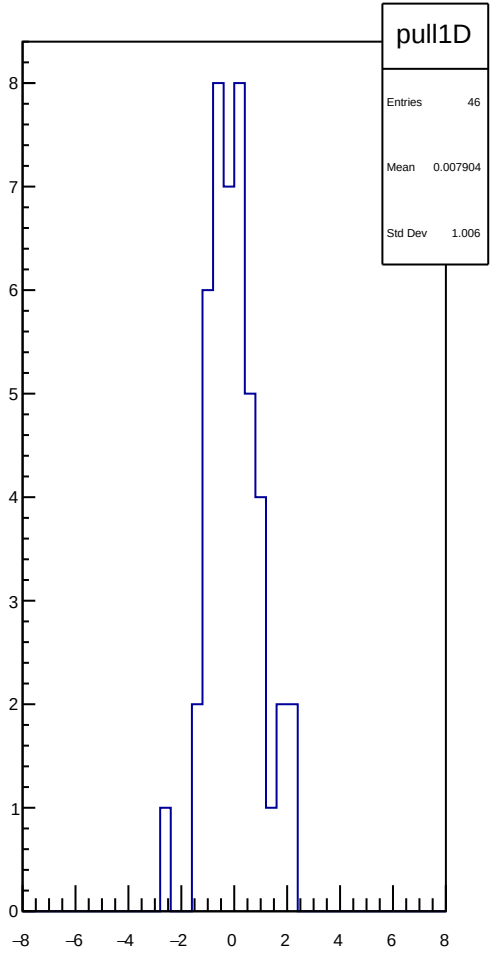
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 407.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.007904
Std Dev 1.006
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7
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5
4
3
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1
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−8
−6
−4
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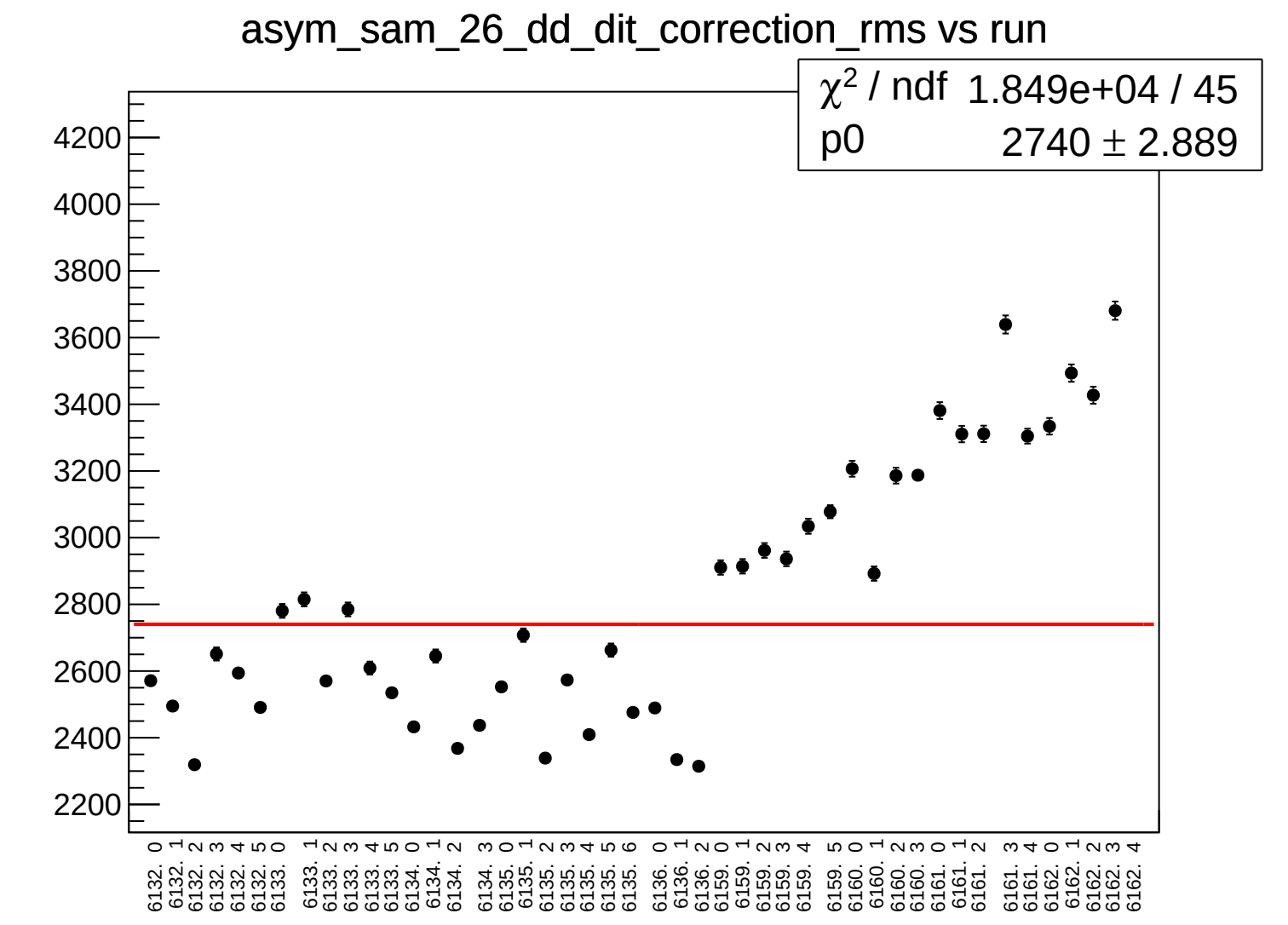
2
4
6
8


asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 1.849e+04 / 45
p0 2740 ± 2.889
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
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6135. 2
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6160. 1
6160. 2
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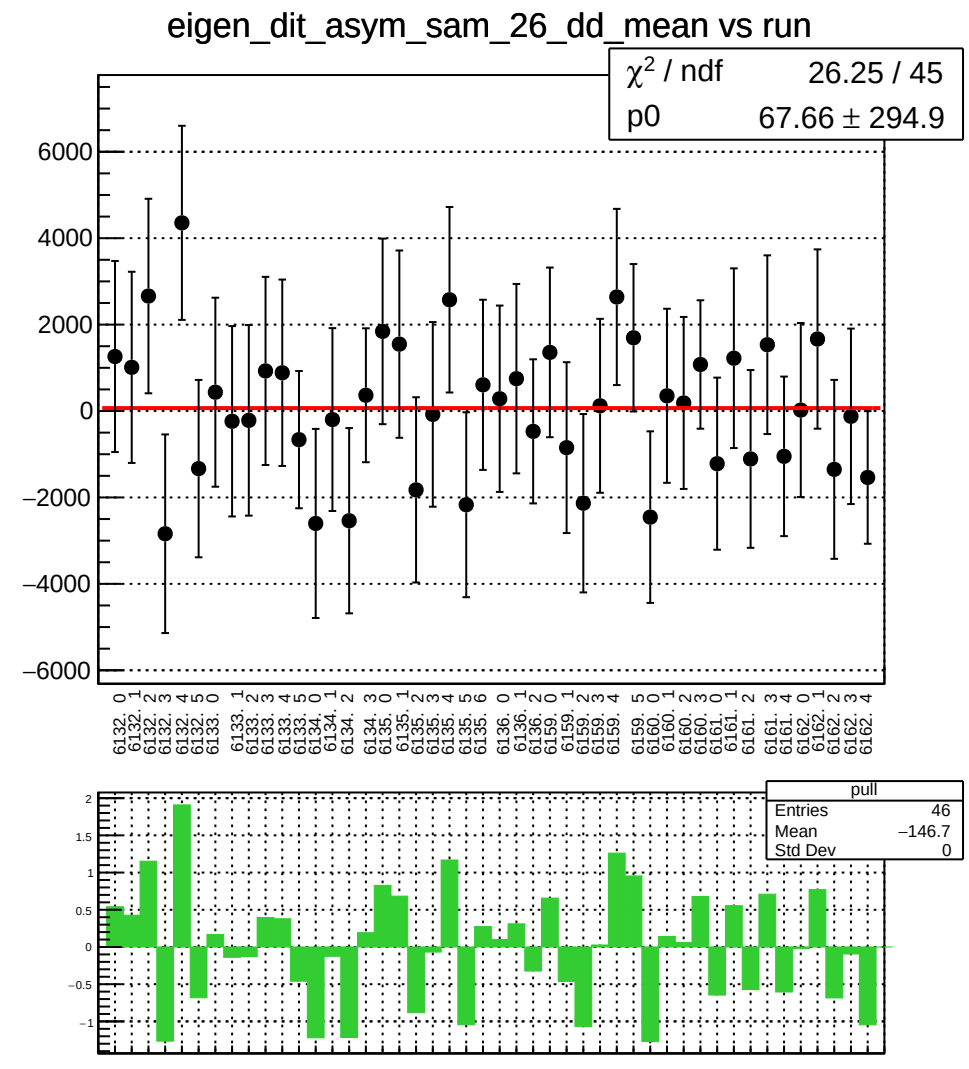
eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 26.25 / 45
p0 67.66 ± 294.9
6000
4000
2000
0
−2000
−4000
−6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6135. 2
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6136. 0
6136. 1
6136. 2
6159. 0
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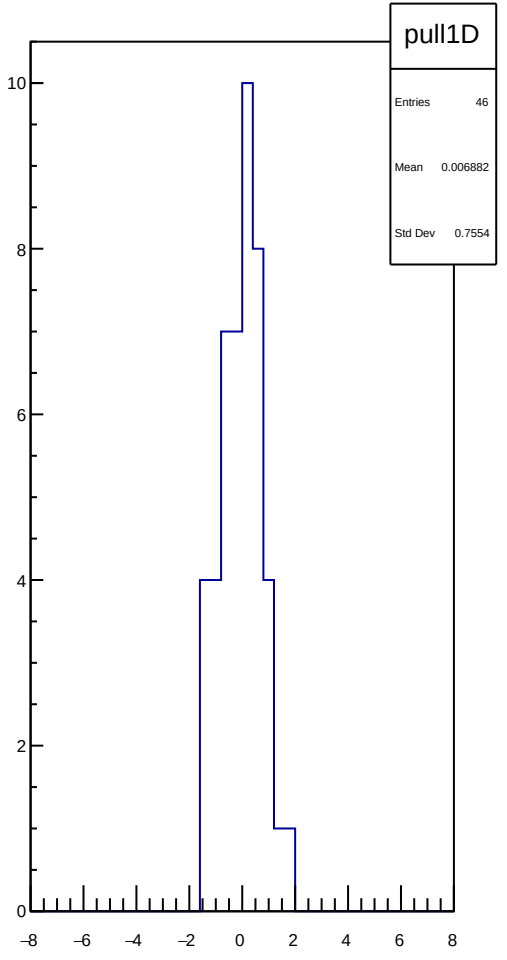
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −146.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 46
Mean 0.006882
Std Dev 0.7554
10
8
6
4
2
0
−8
−6
−4
−2
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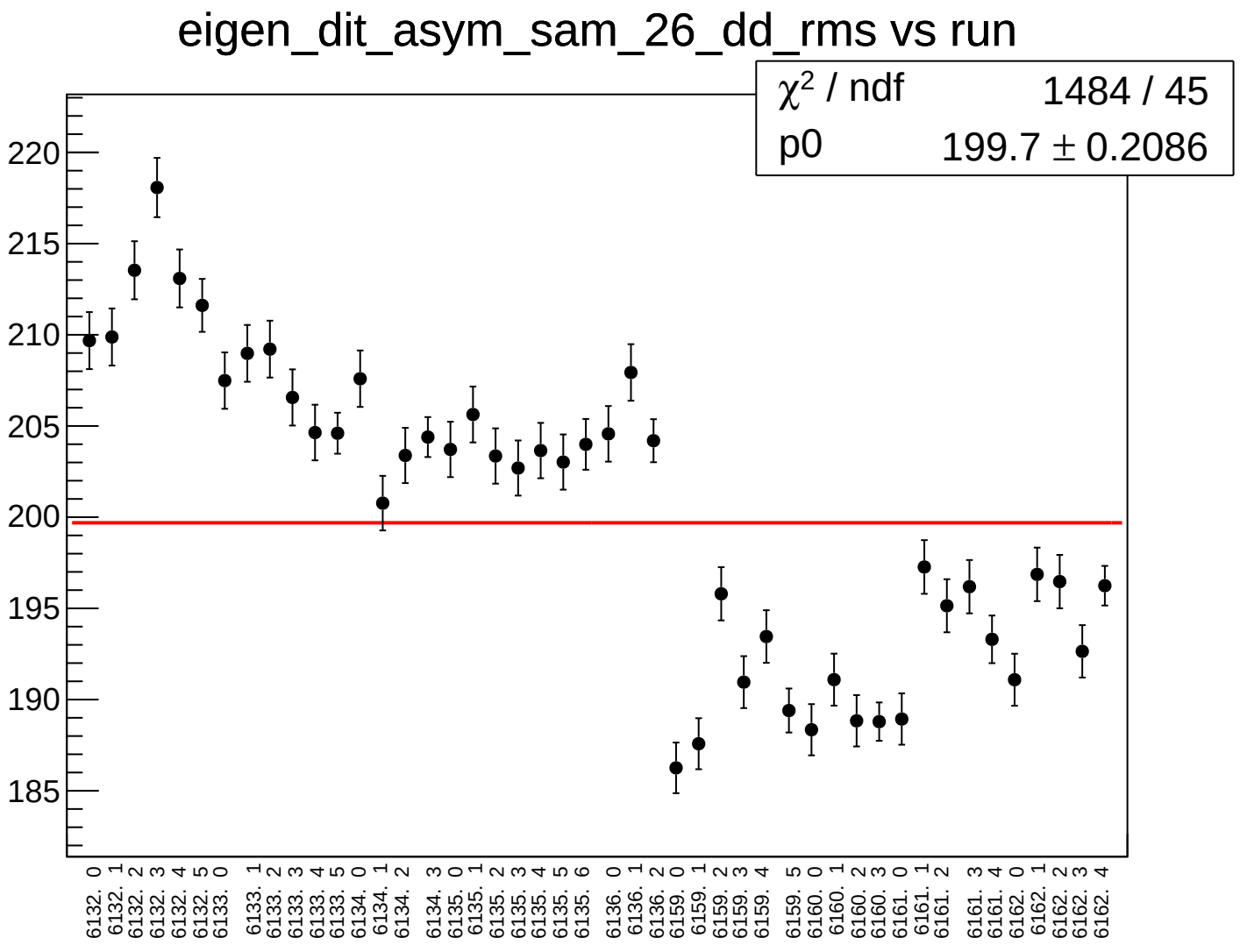
2
4
6
8


eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 1484 / 45
p0 199.7 ± 0.2086
220
215
210
205
200
195
190
185
6132. 0
6132. 1
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6132. 3
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6134. 0
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6135. 6
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6160. 0
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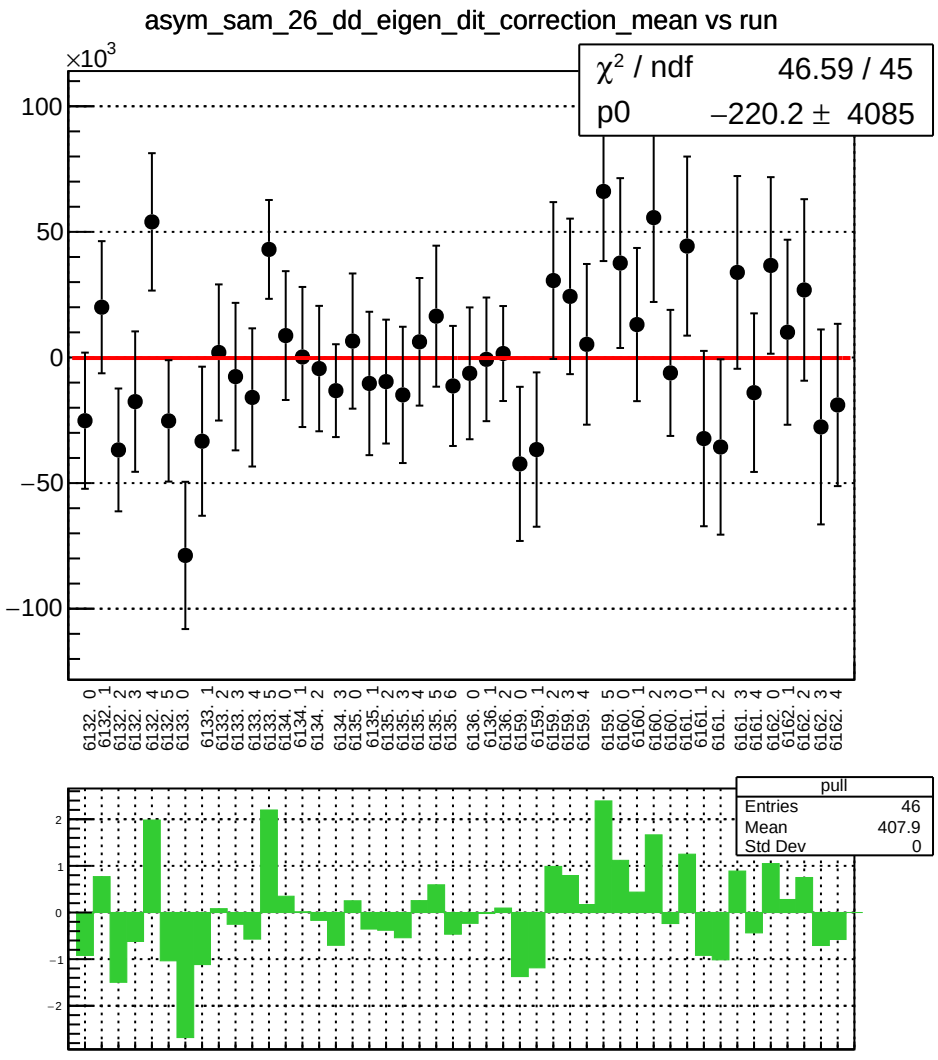
6162. 4


asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 46.59 / 45
p0 −220.2 ± 4085
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6135. 5
6135. 6
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6136. 2
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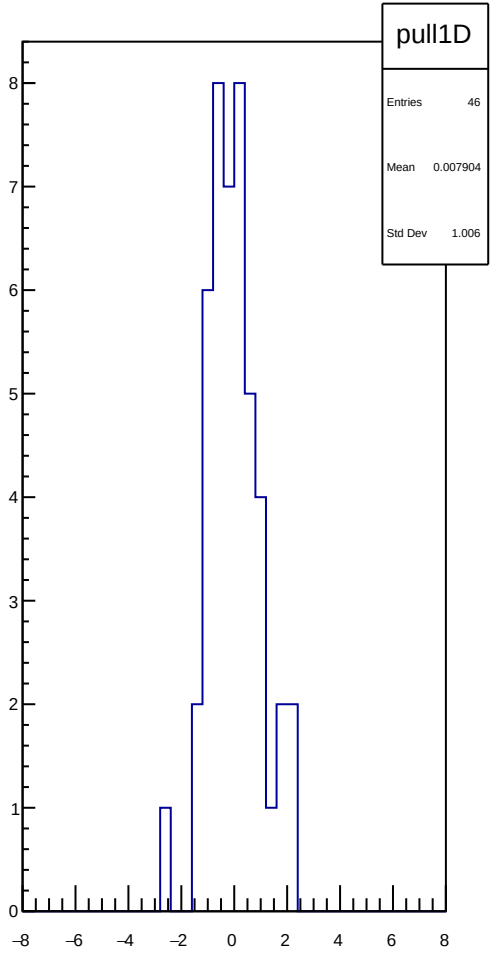
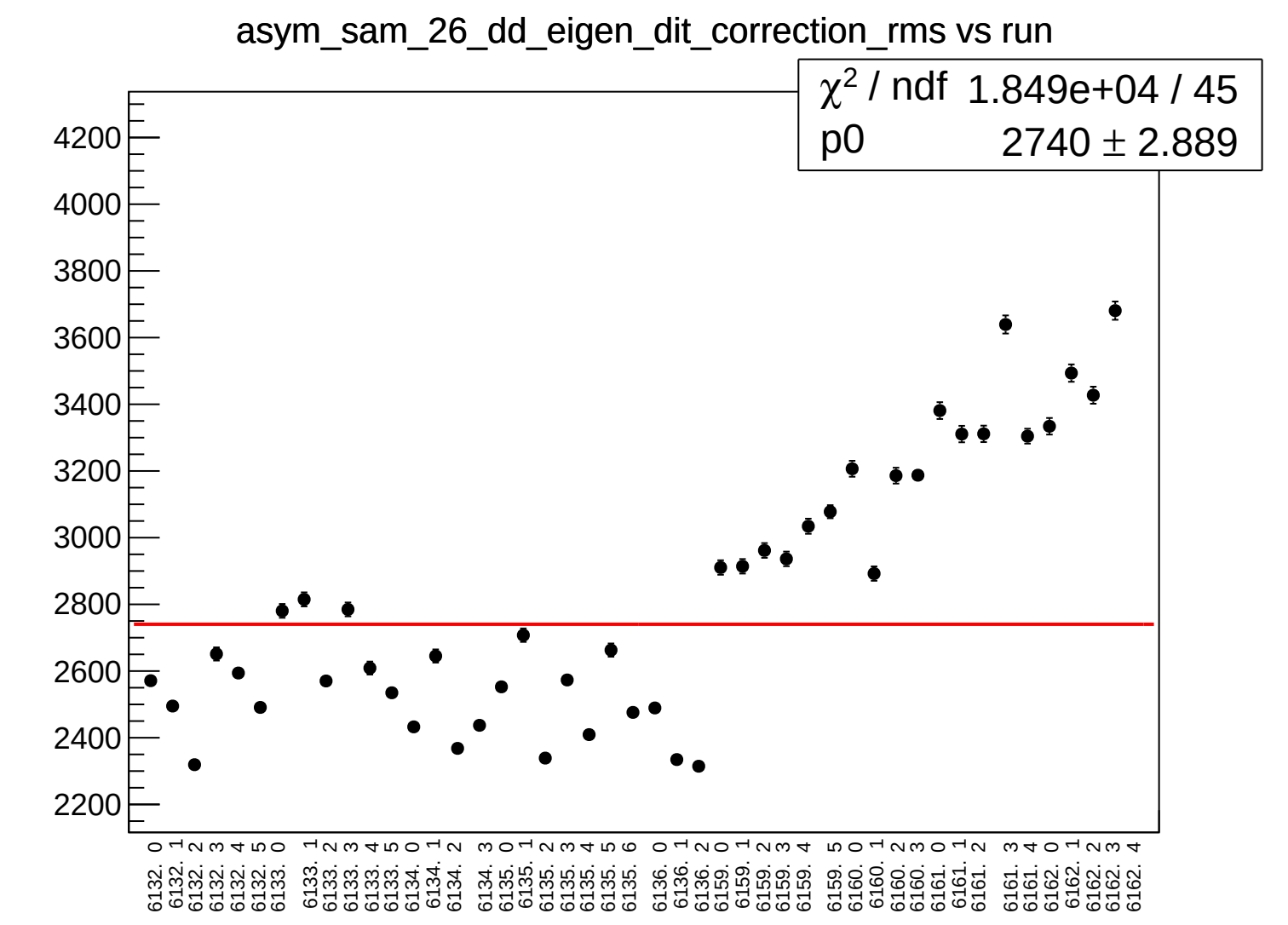
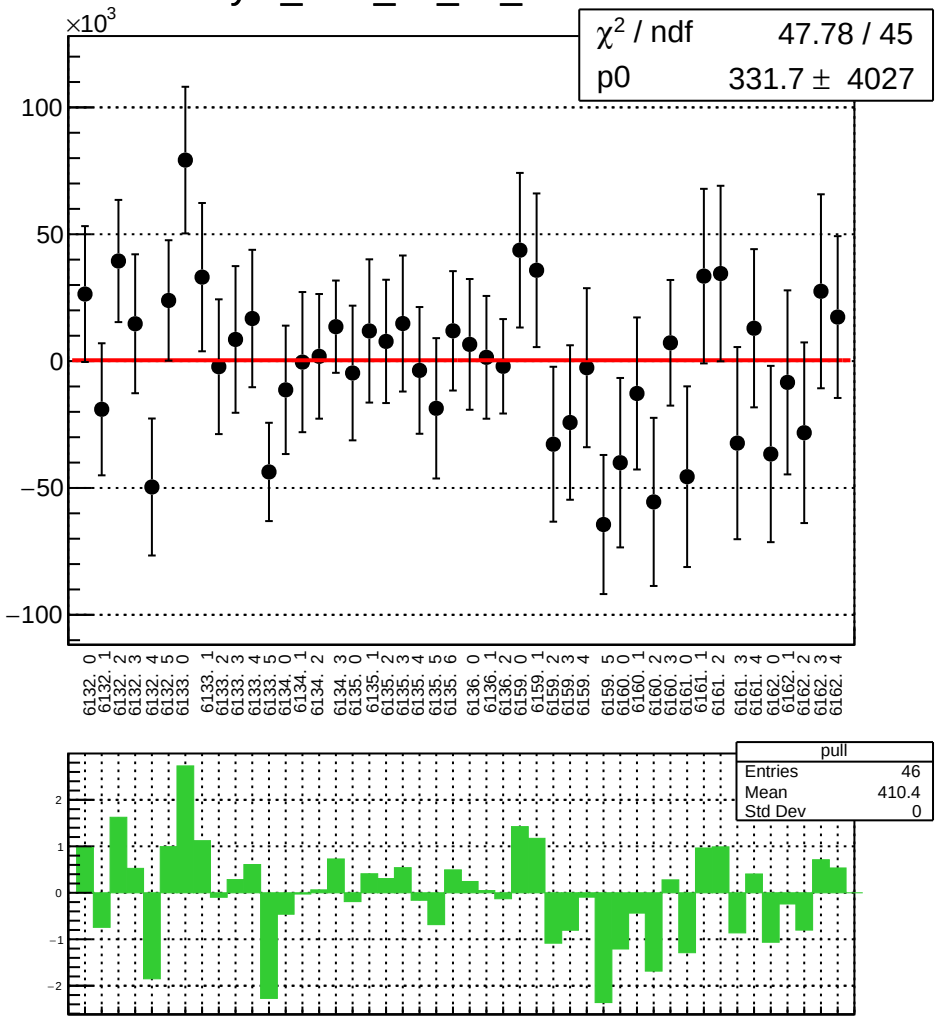
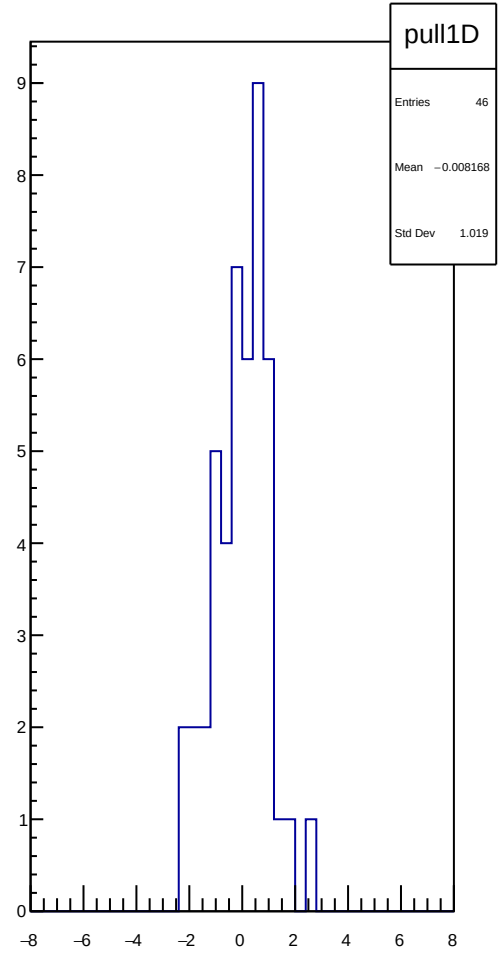
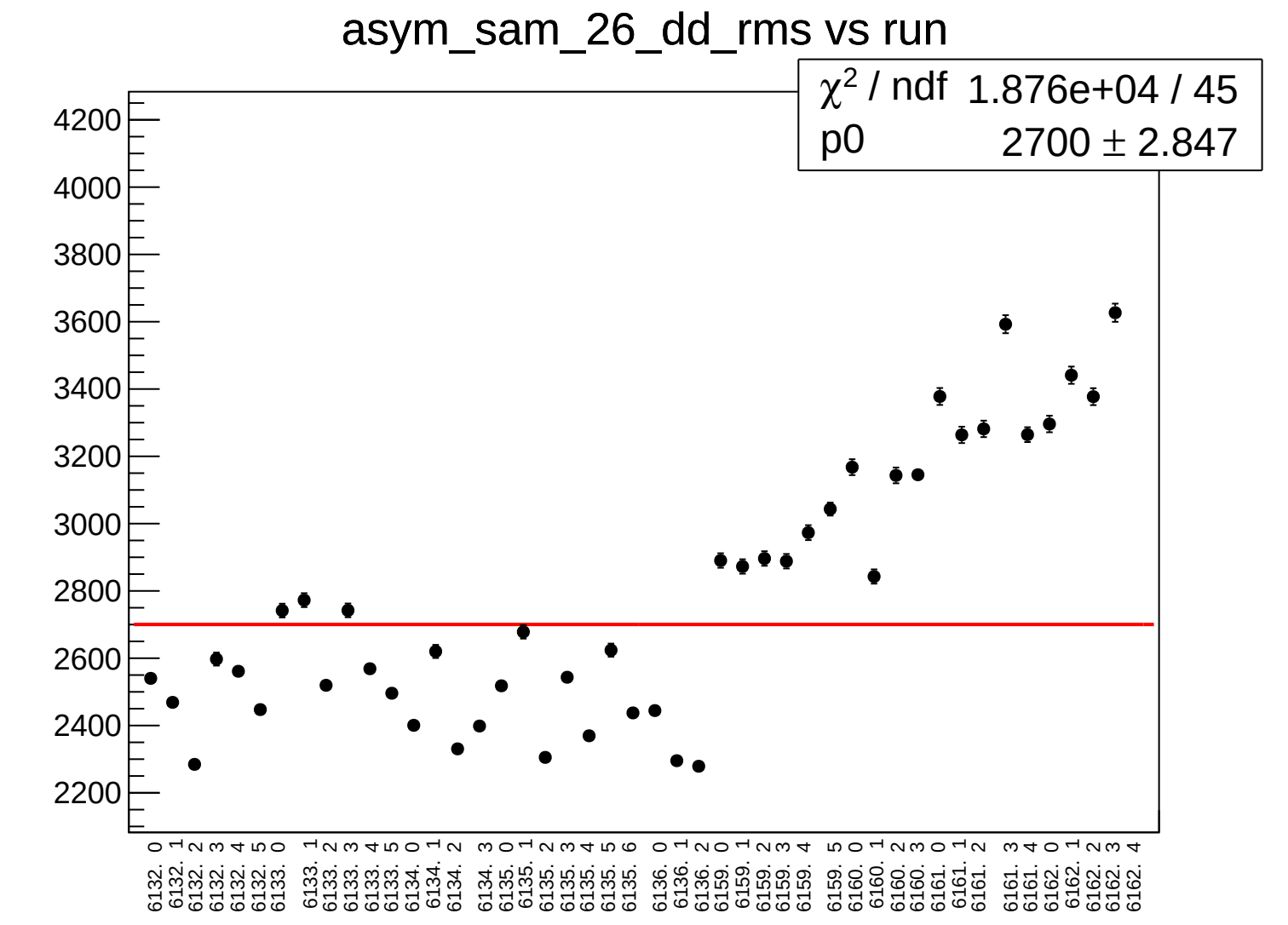
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 407.9
Std Dev 0
2
1
0
−1
−2

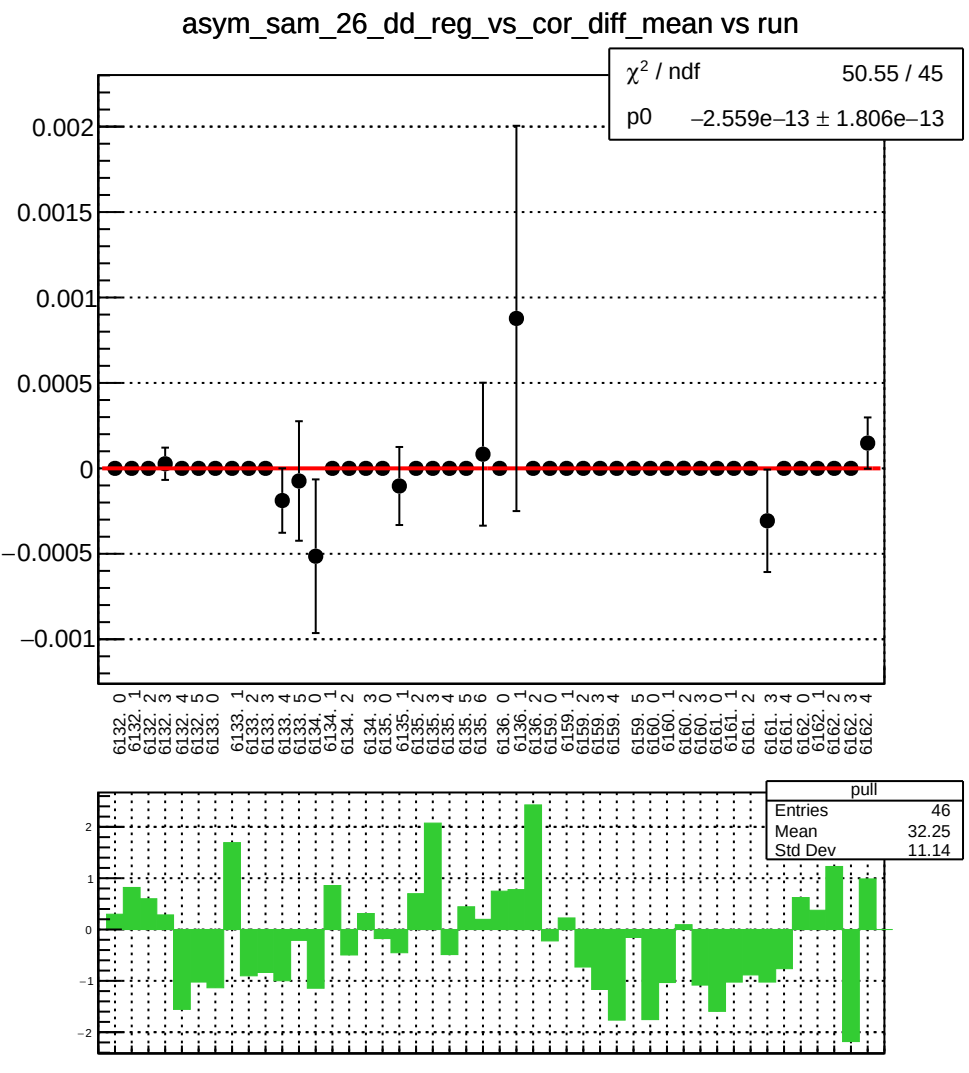

pull1D
Entries 46
Mean 0.007904
Std Dev 1.006
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

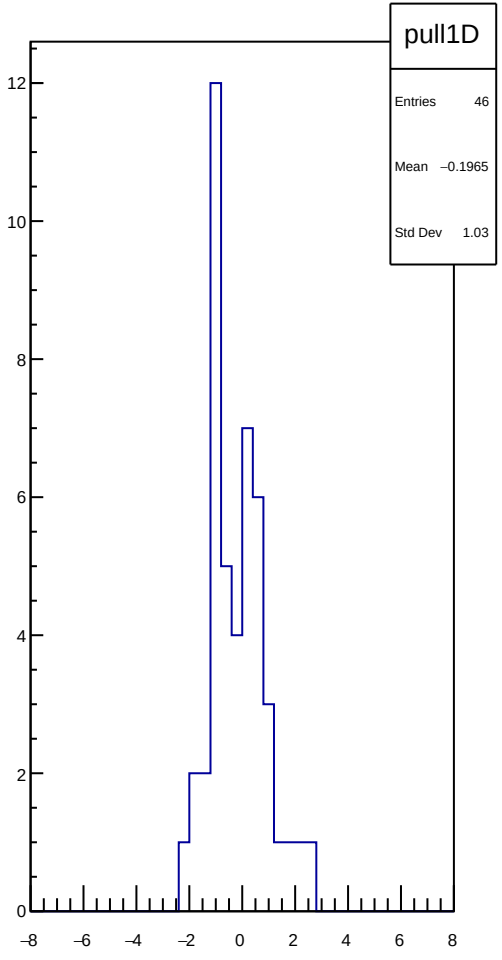

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.849e+04 / 45
p0 2740 ± 2.889
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

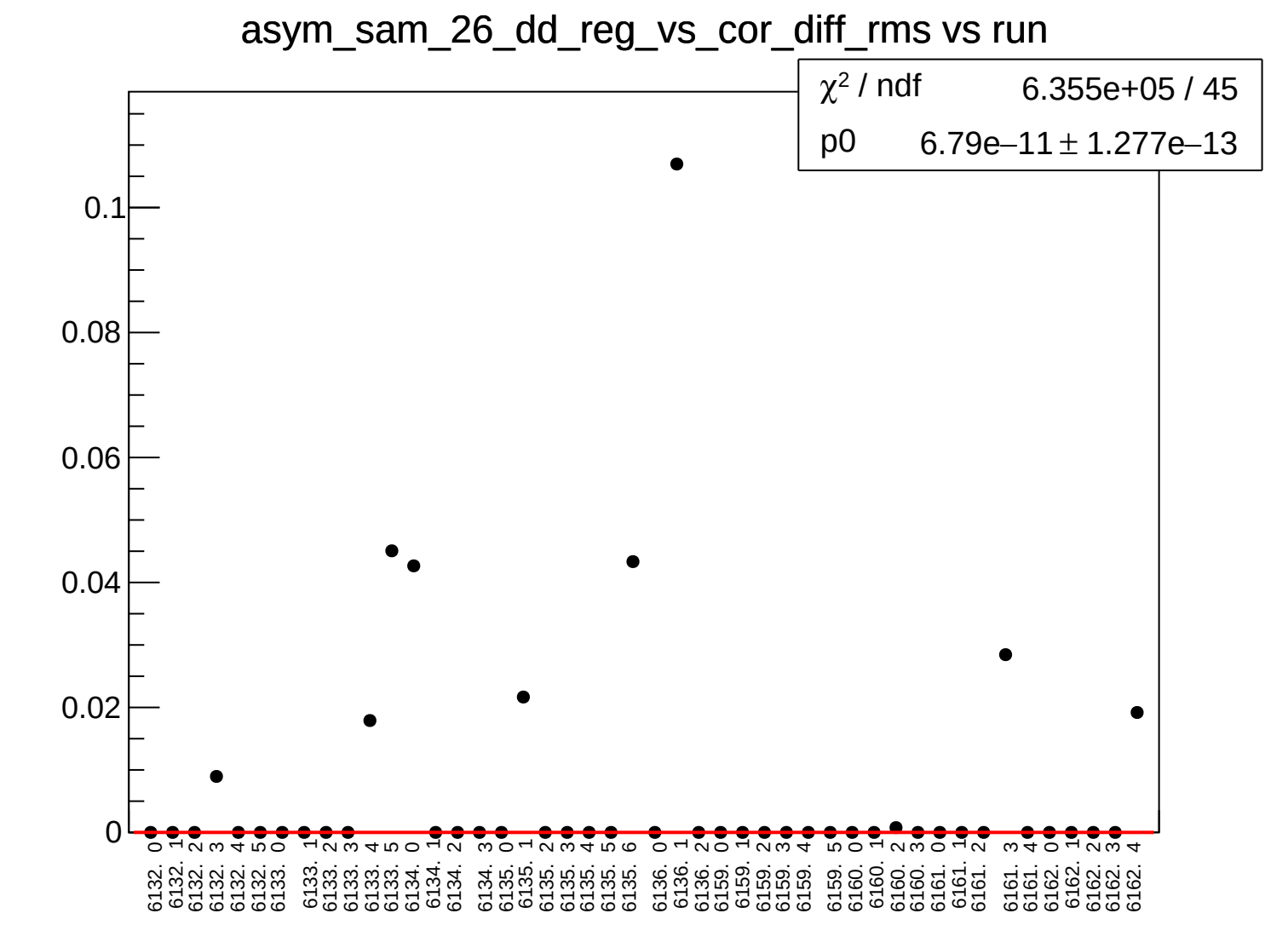

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 47.78 / 45
p0 331.7 ± 4027
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 410.4
Std Dev 0
2
1
0
−1
−2

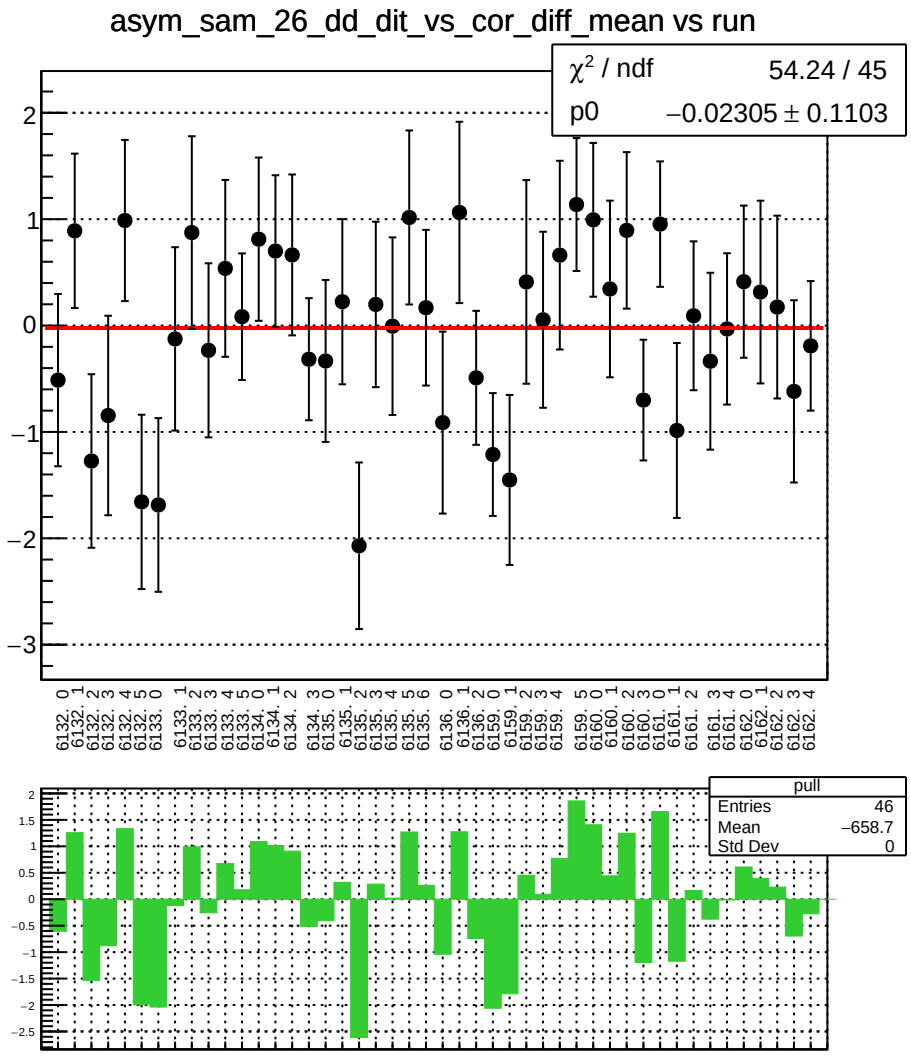

pull1D
Entries 46
Mean −0.008168
Std Dev 1.019
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

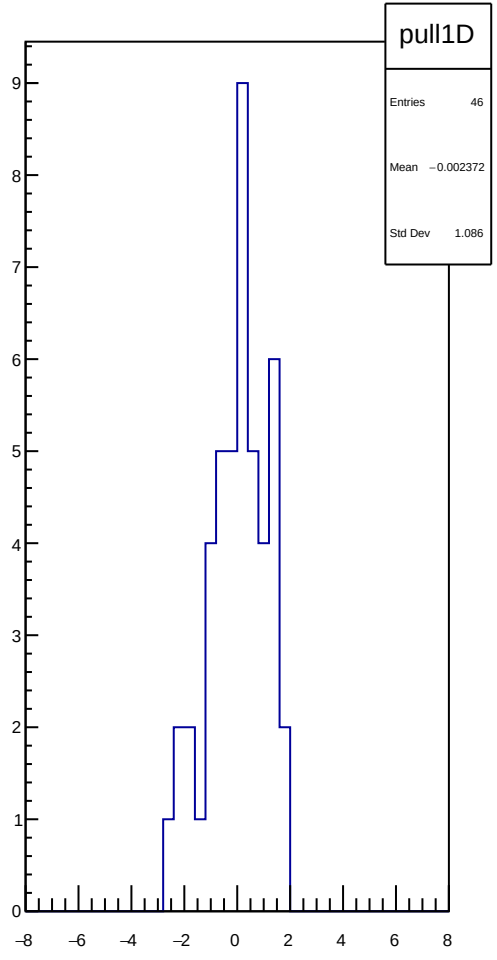

asym_sam_26_dd_rms vs run
χ² / ndf 1.876e+04 / 45
p0 2700 ± 2.847
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

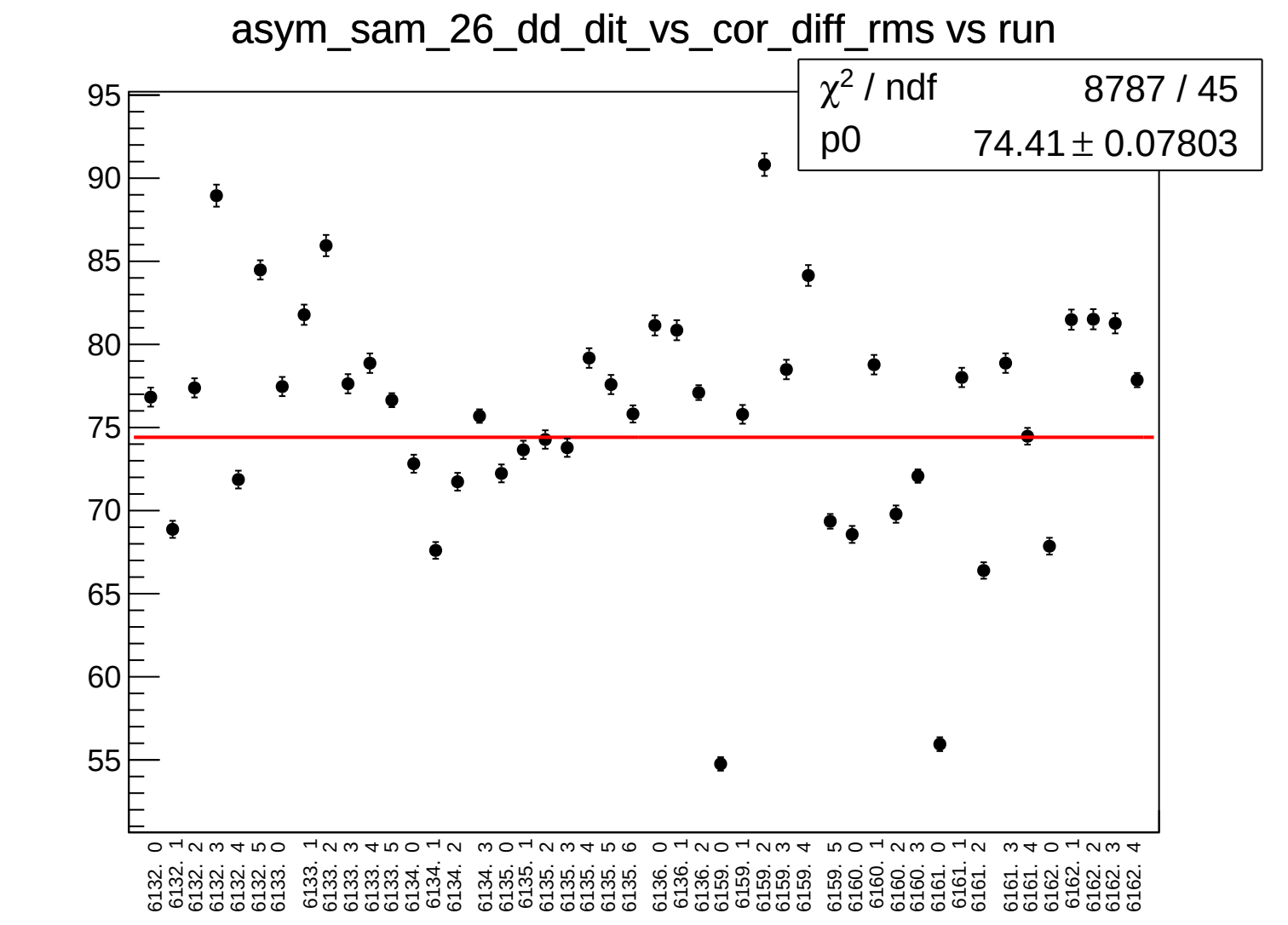

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 50.55 / 45
p0 −2.559e−13 ± 1.806e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 32.25
Std Dev 11.14
2
1
0
−1
−2

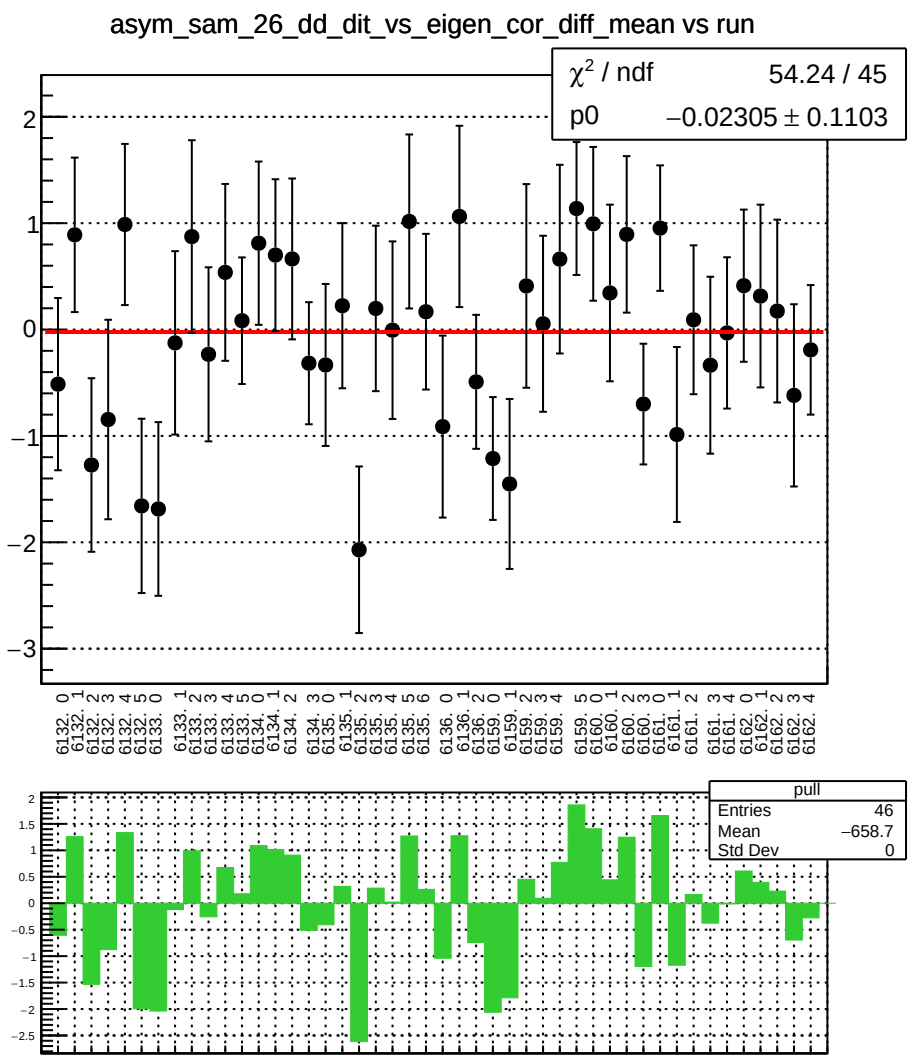

pull1D
Entries 46
Mean −0.1965
Std Dev 1.03
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

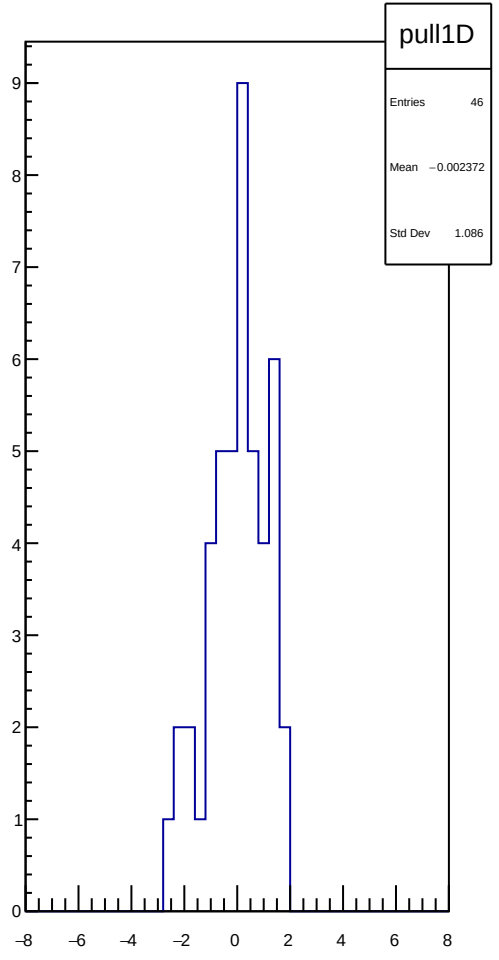

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.355e+05 / 45
p0 6.79e−11 ± 1.277e−13
0.1
0.08
0.06
0.04
0.02
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

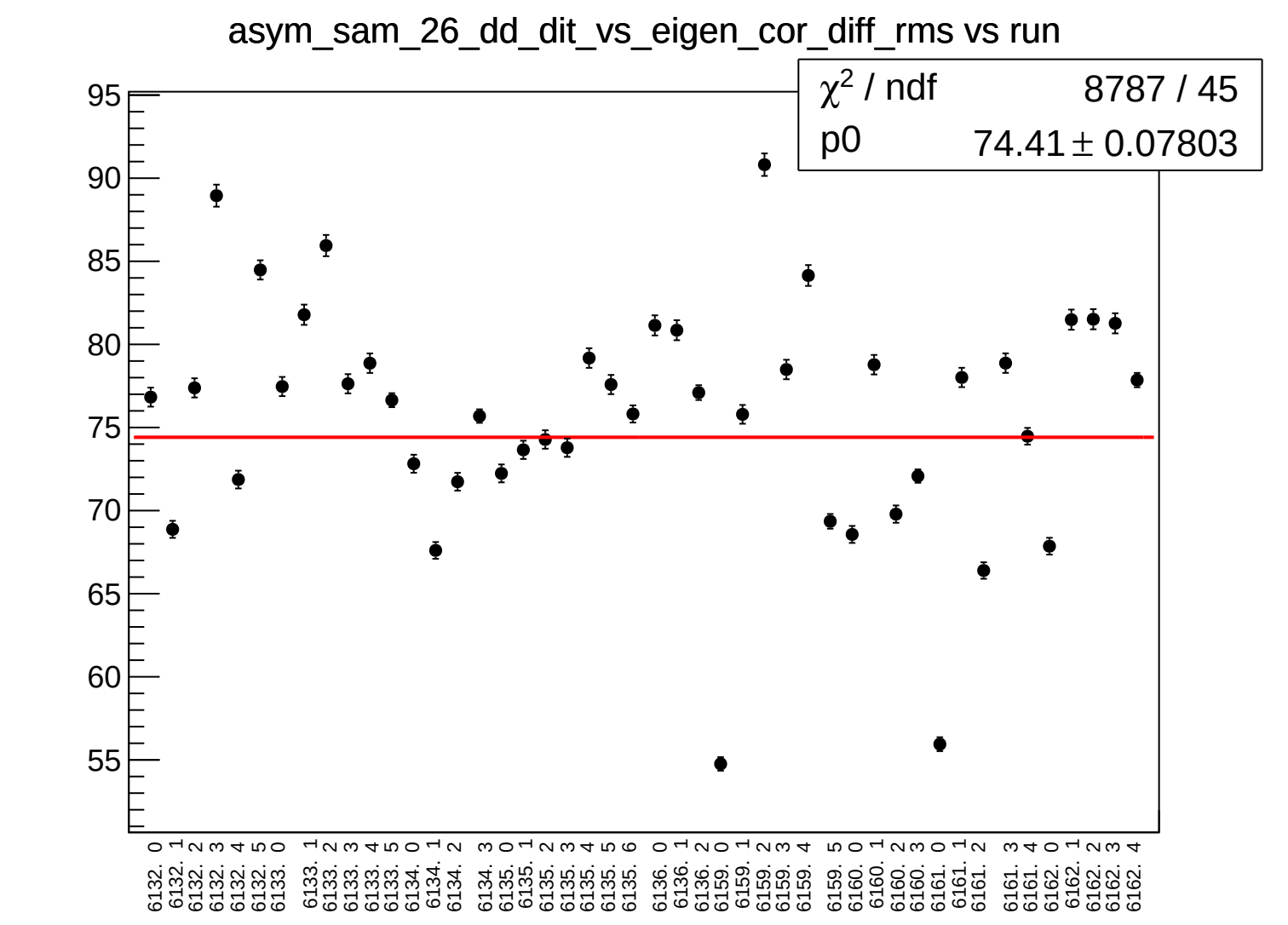

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 54.24 / 45
p0 −0.02305 ± 0.1103
pull
Entries 46
Mean −658.7
Std Dev 0

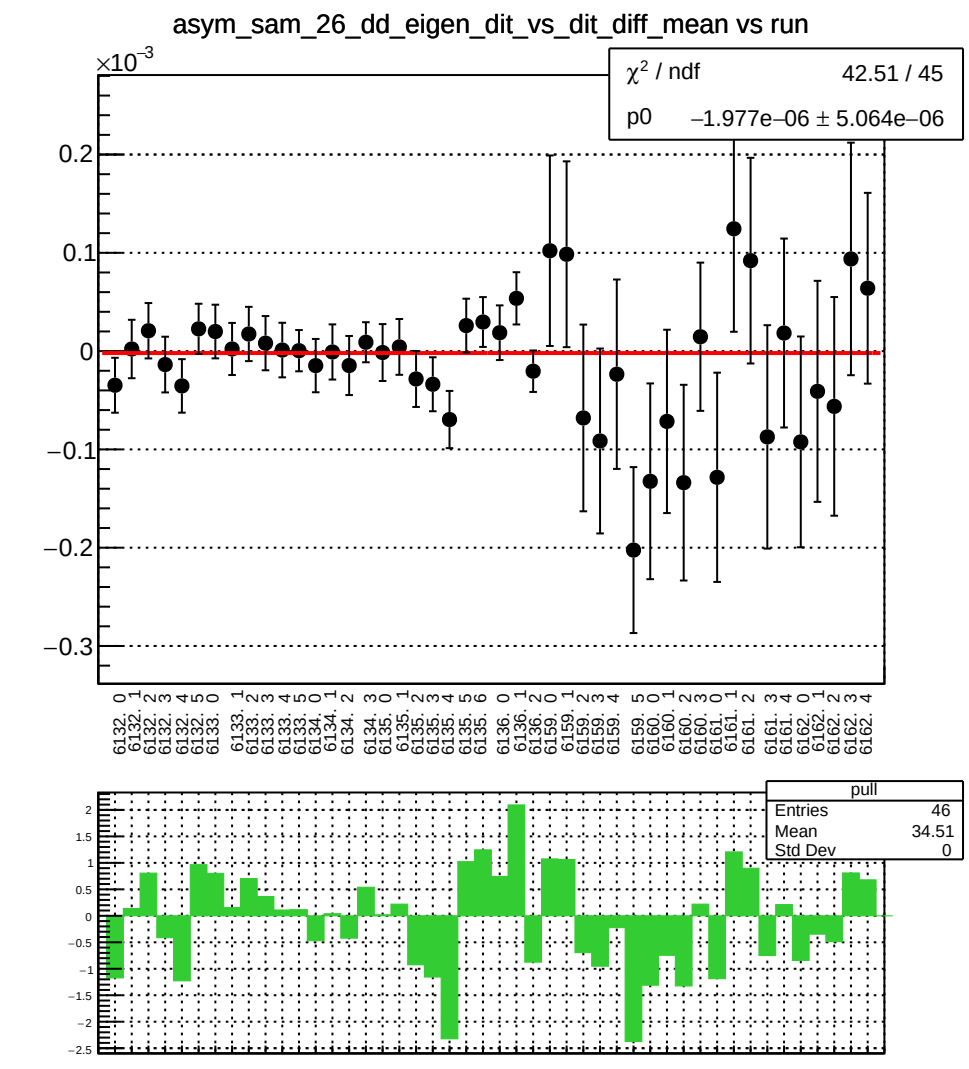

pull1D
Entries 46
Mean −0.002372
Std Dev 1.086

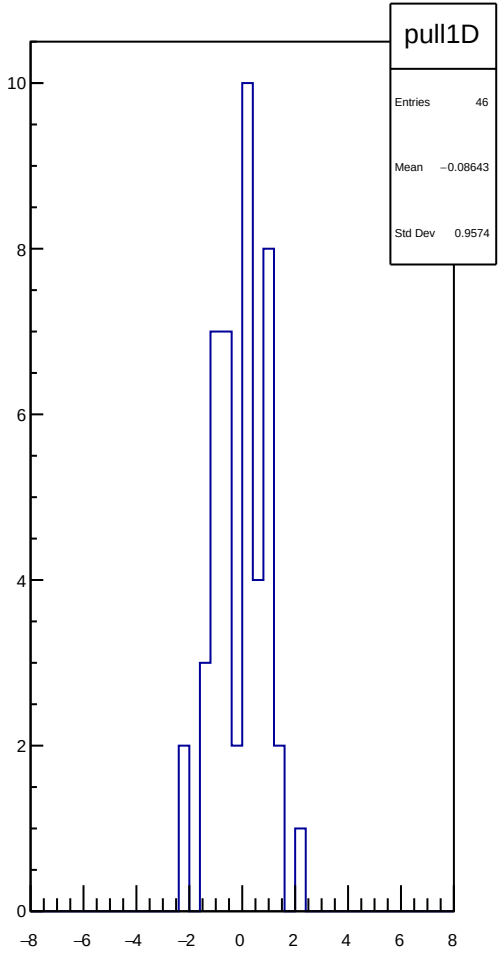

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8787 / 45
p0 74.41 ± 0.07803
95
90
85
80
75
70
65
60
55
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

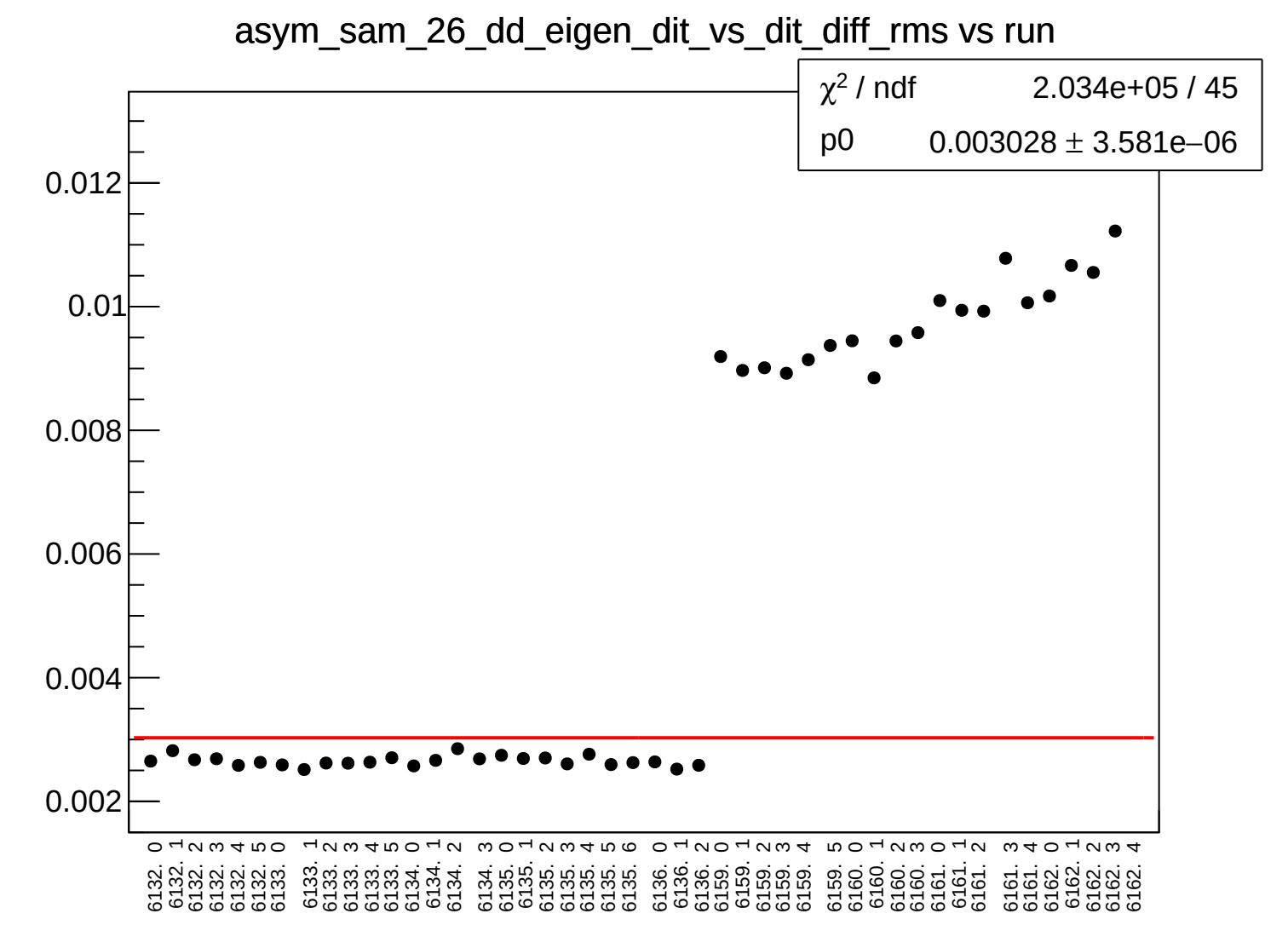

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.24 / 45
p0 −0.02305 ± 0.1103
pull
Entries 46
Mean −658.7
Std Dev 0

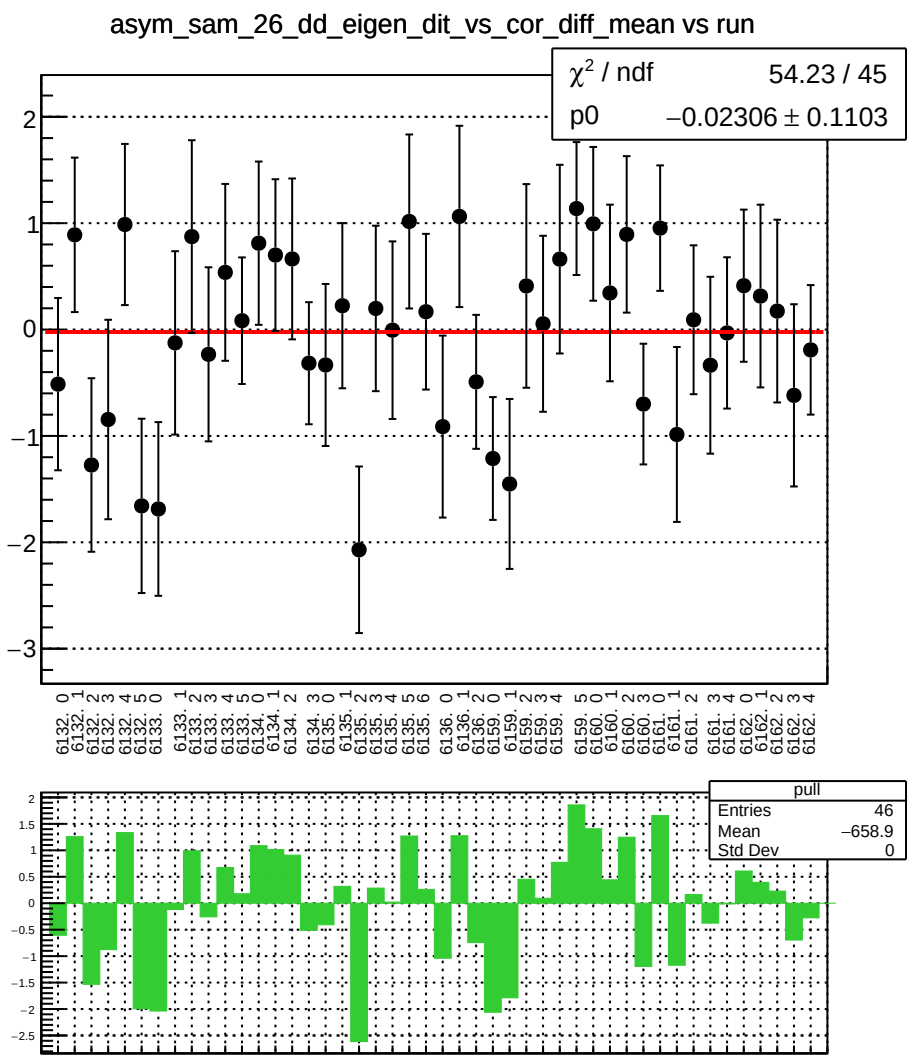

pull1D
Entries 46
Mean −0.002372
Std Dev 1.086

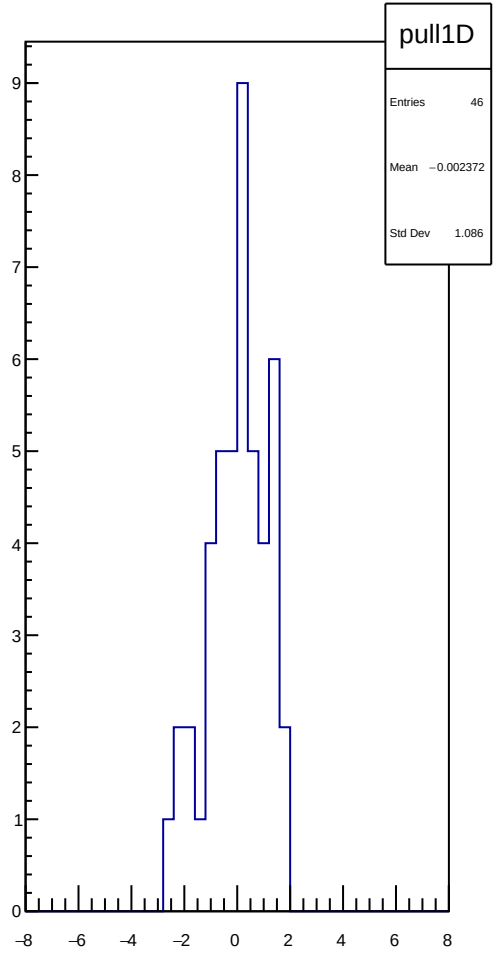

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8787 / 45
p0 74.41 ± 0.07803
95
90
85
80
75
70
65
60
55
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

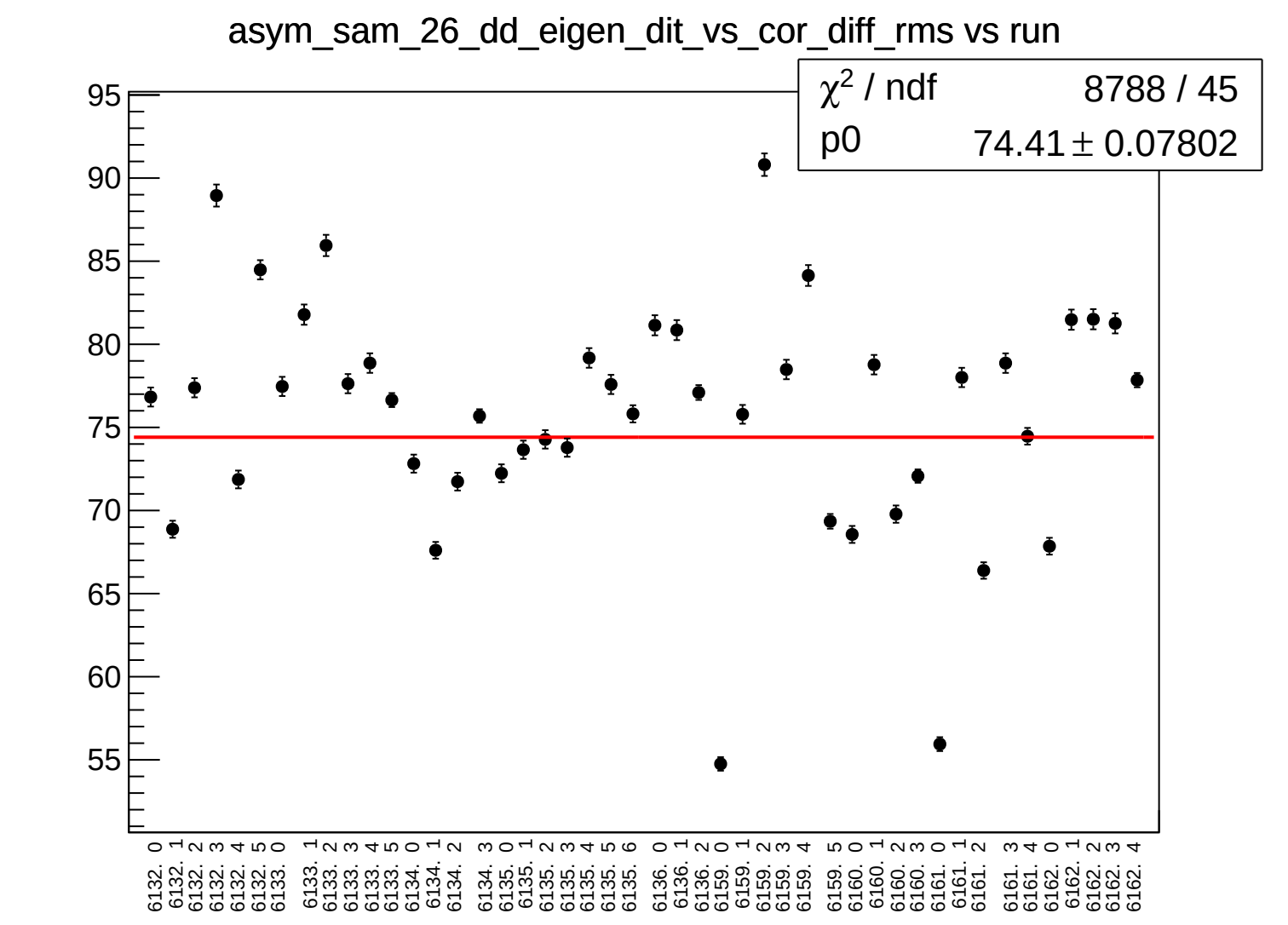

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 42.51 / 45
p0 −1.977e−06 ± 5.064e−06
pull
Entries 46
Mean 34.51
Std Dev 0

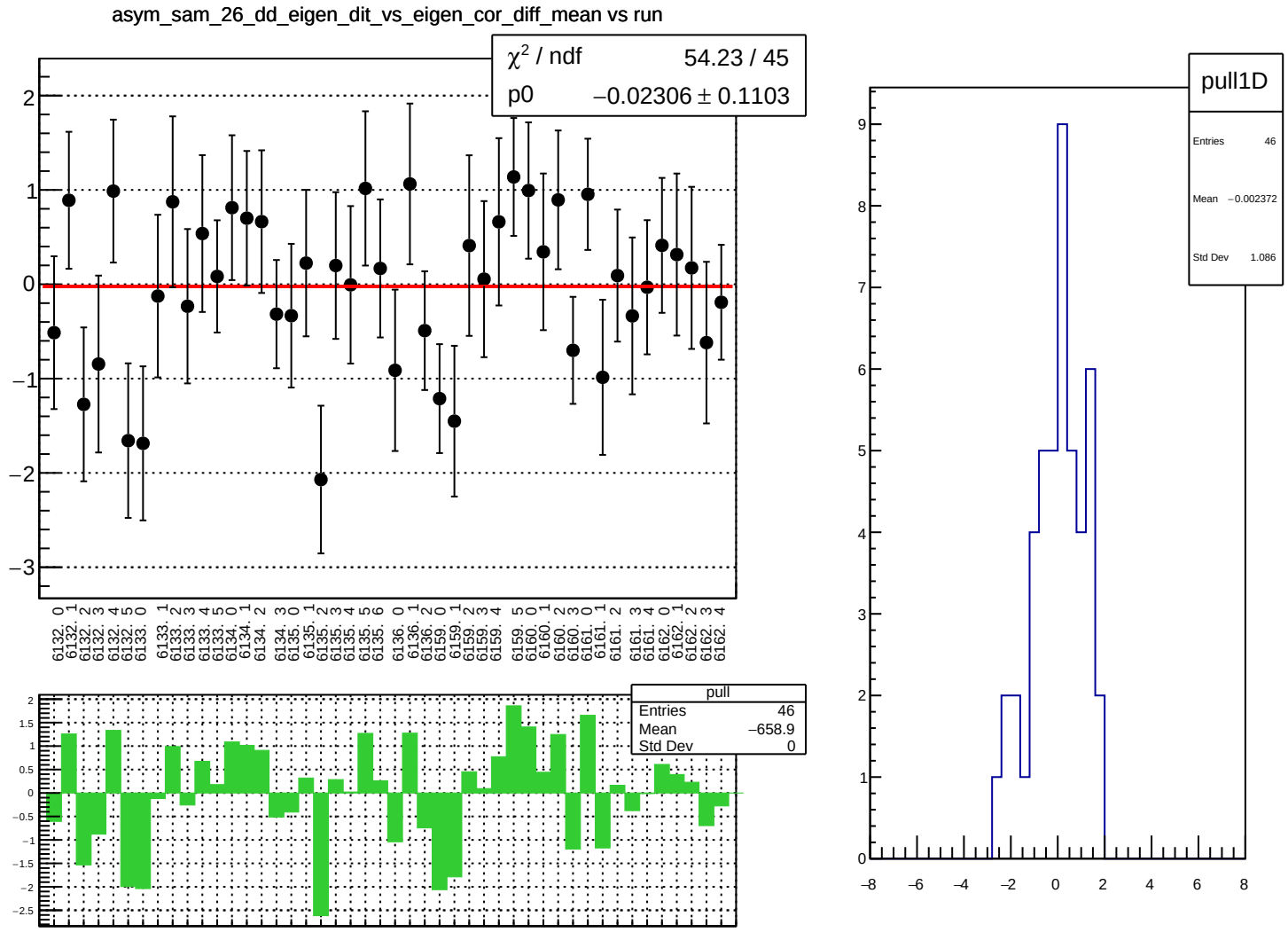

pull1D
Entries 46
Mean −0.08643
Std Dev 0.9574

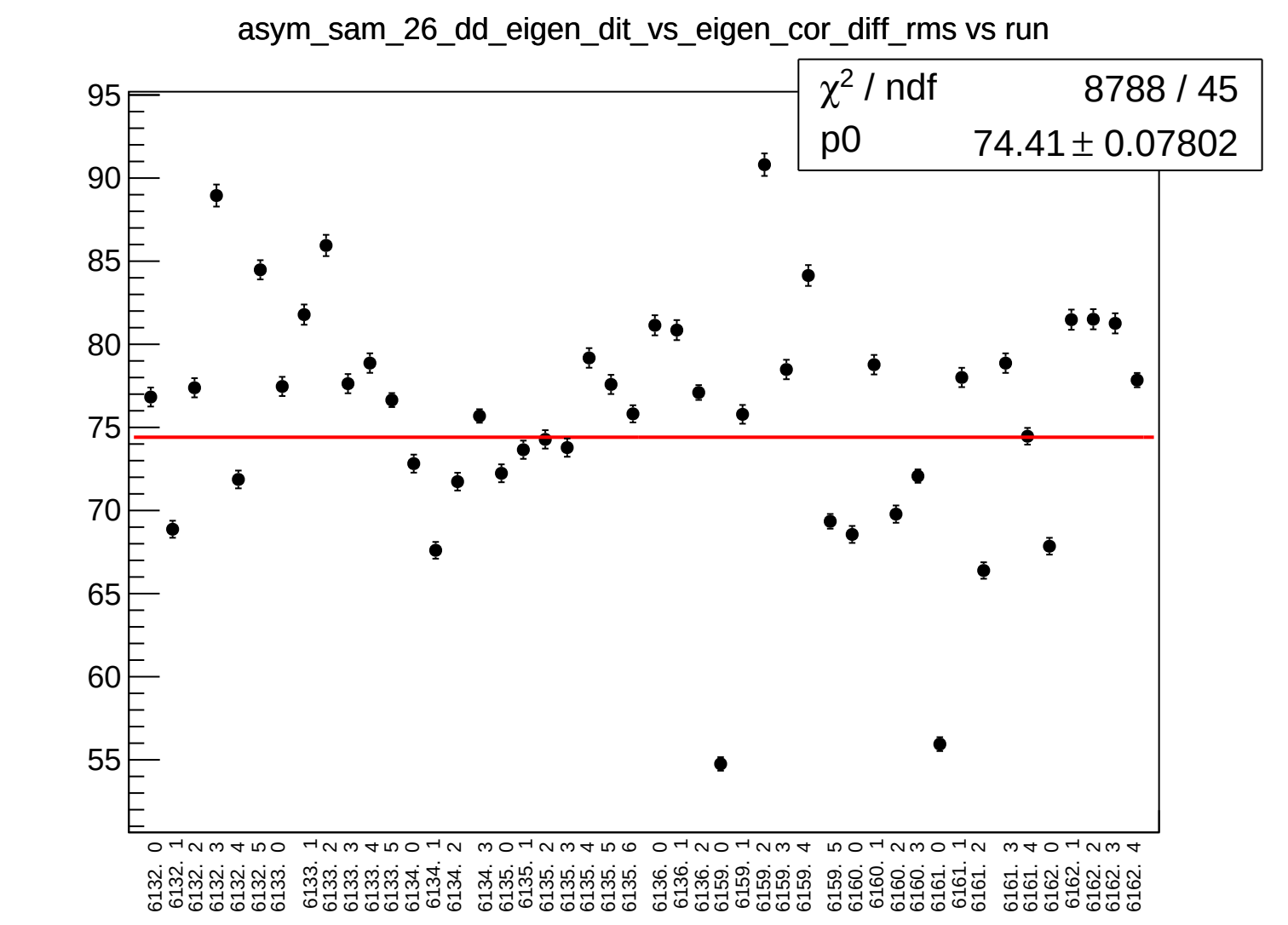

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.034e+05 / 45
p0 0.003028 ± 3.581e−06
0.012
0.01
0.008
0.006
0.004
0.002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

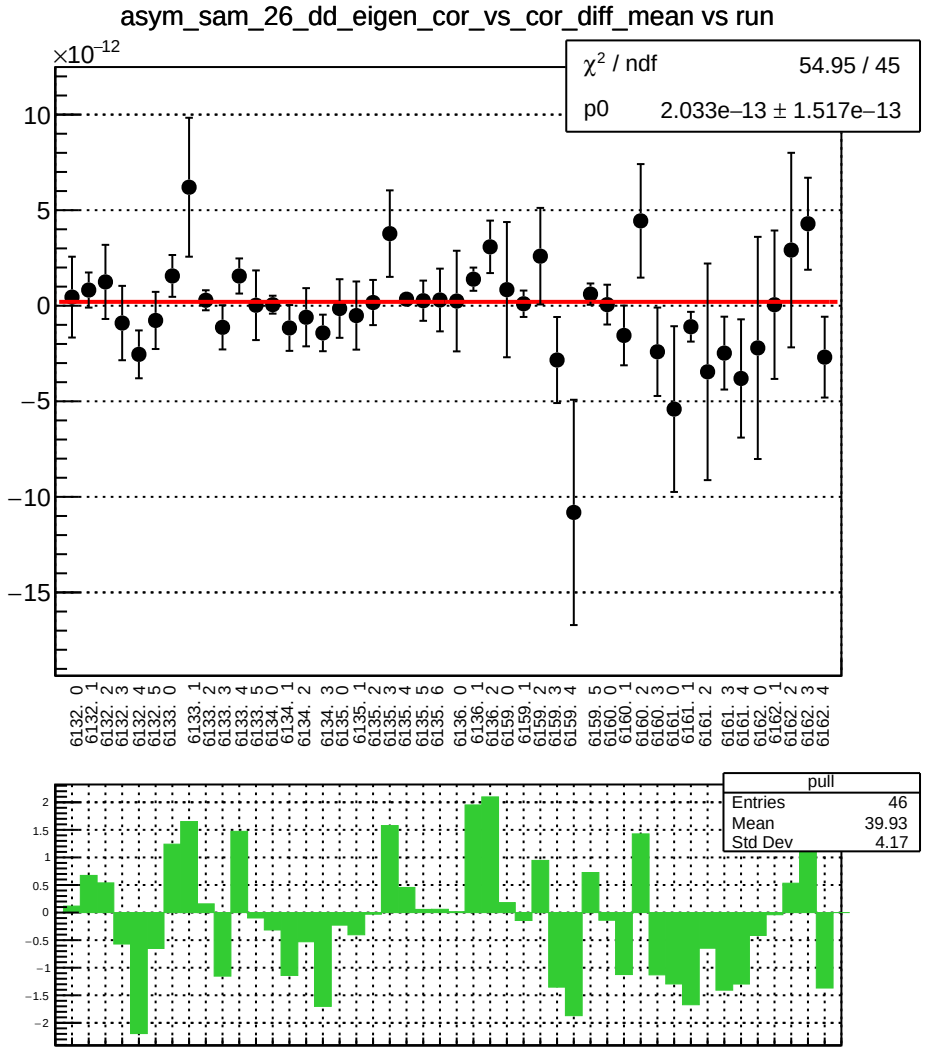

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 54.23 / 45
p0 −0.02306 ± 0.1103
pull
Entries 46
Mean −658.9
Std Dev 0

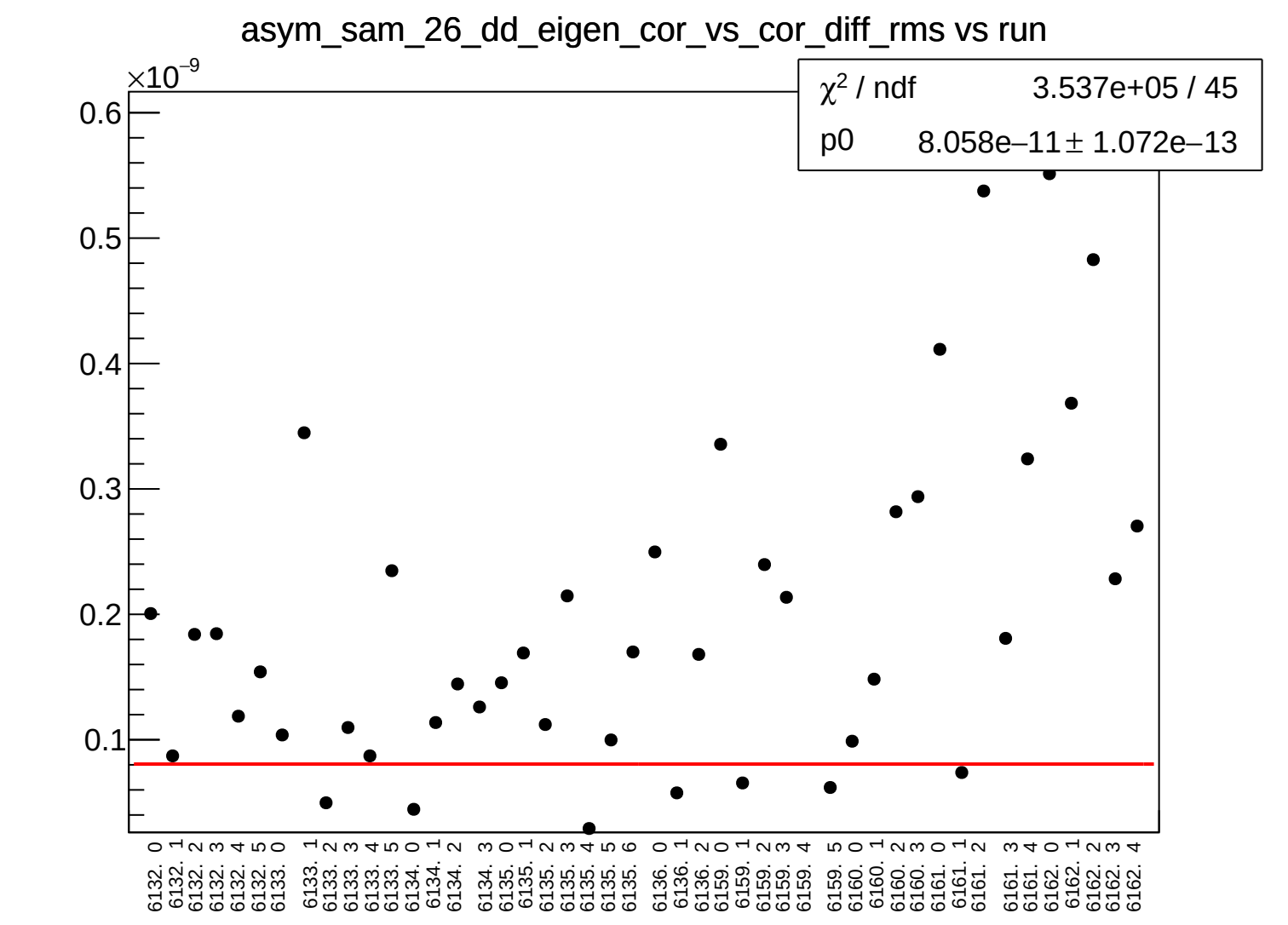

pull1D
Entries 46
Mean −0.002372
Std Dev 1.086

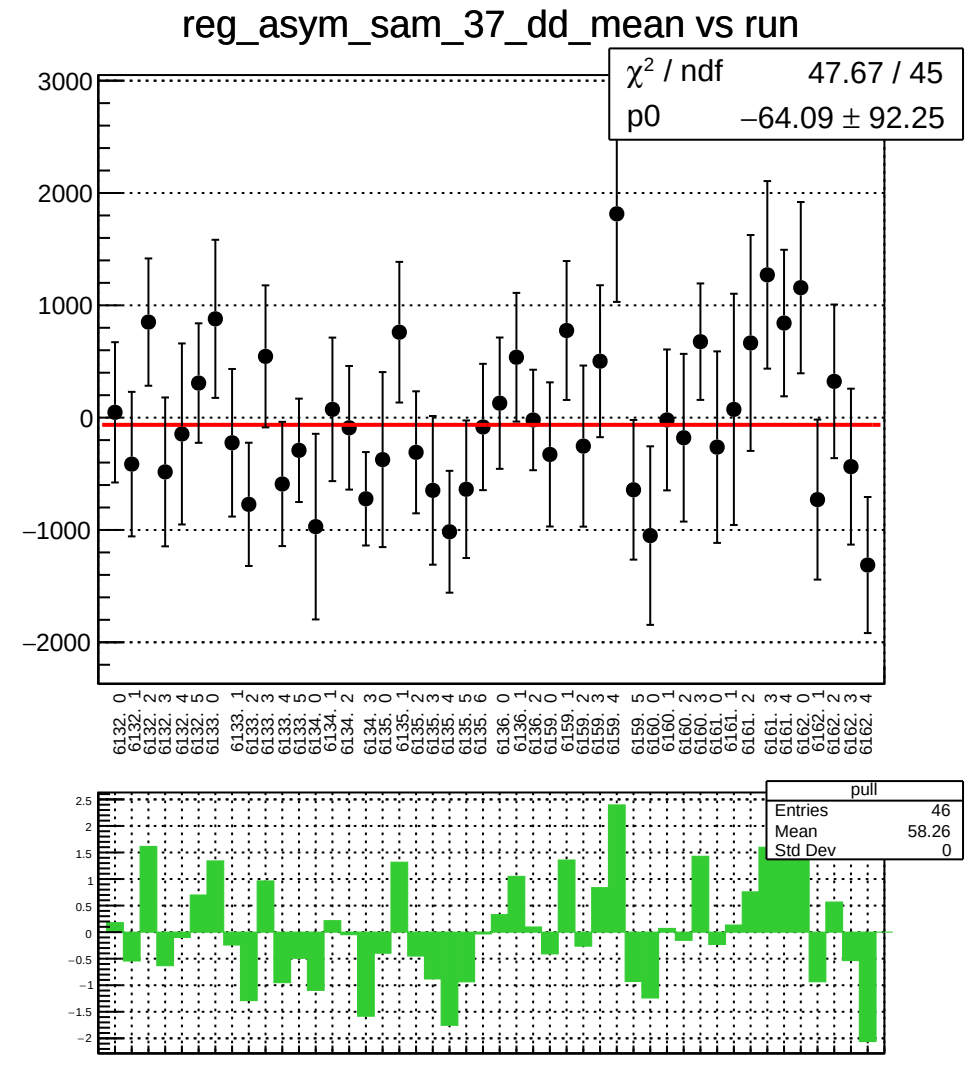

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8788 / 45
p0 74.41 ± 0.07802
95
90
85
80
75
70
65
60
55
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

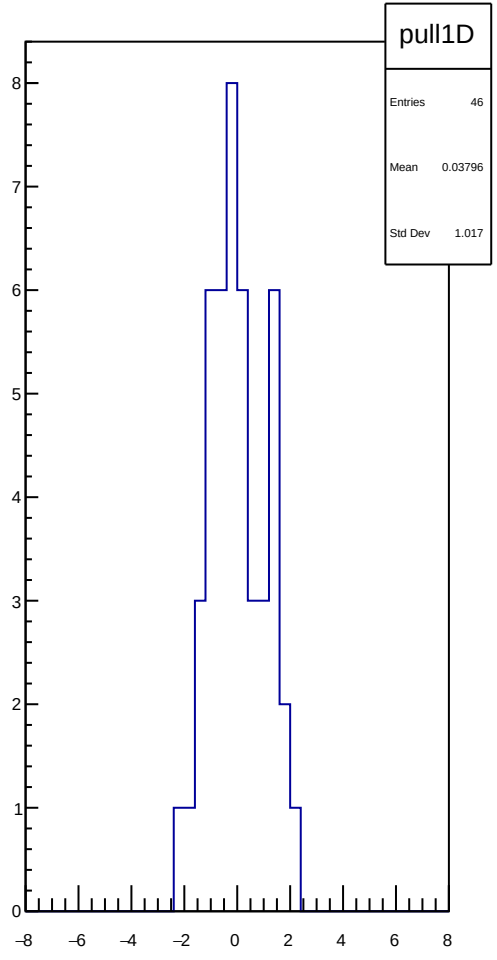

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.23 / 45
p0 −0.02306 ± 0.1103
pull
Entries 46
Mean −658.9
Std Dev 0
pull1D
Entries 46
Mean −0.002372
Std Dev 1.086

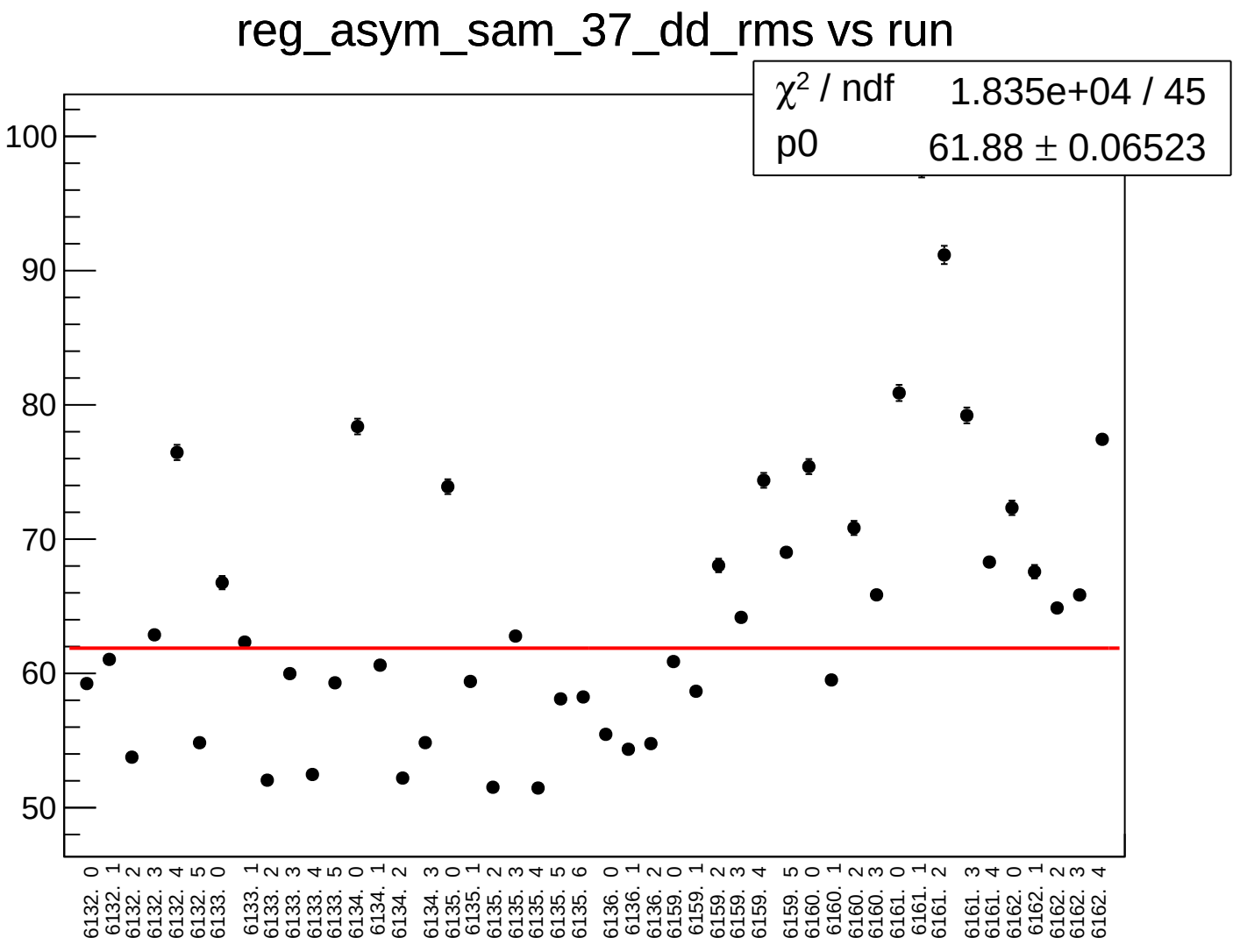

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8788 / 45
p0 74.41 ± 0.07802
95
90
85
80
75
70
65
60
55
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

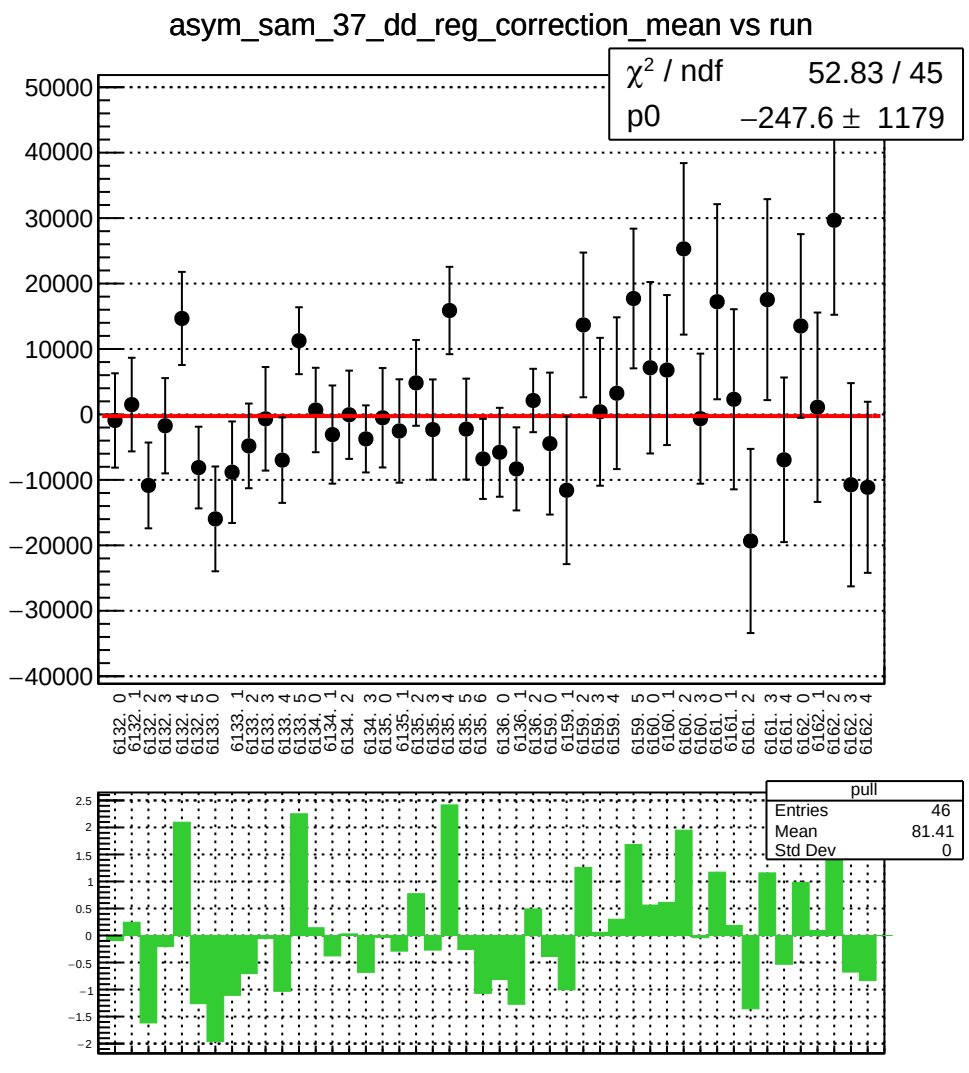

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 54.95 / 45
p0 2.033e−13 ± 1.517e−13
10
5
0
−5
−10
−15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 39.93
Std Dev 4.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.1158
Std Dev 1.087
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

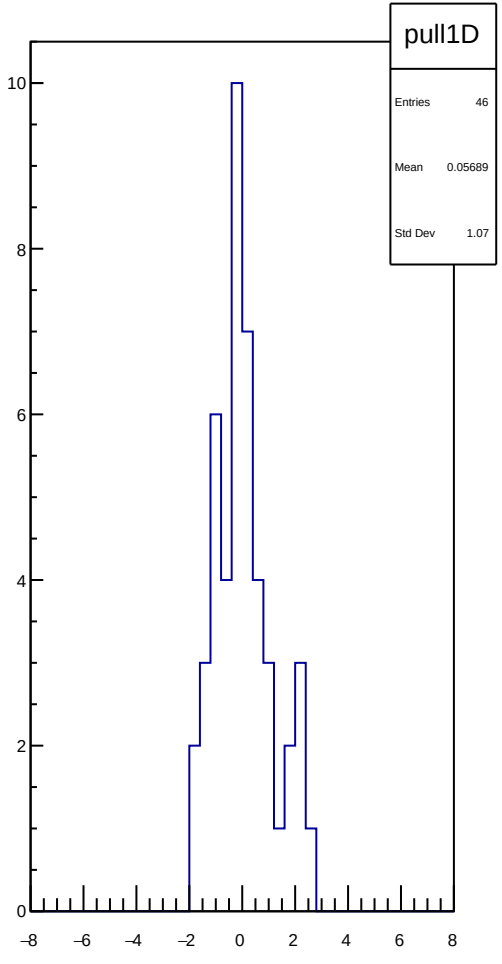

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.537e+05 / 45
p0 8.058e−11 ± 1.072e−13
0.6
0.5
0.4
0.3
0.2
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

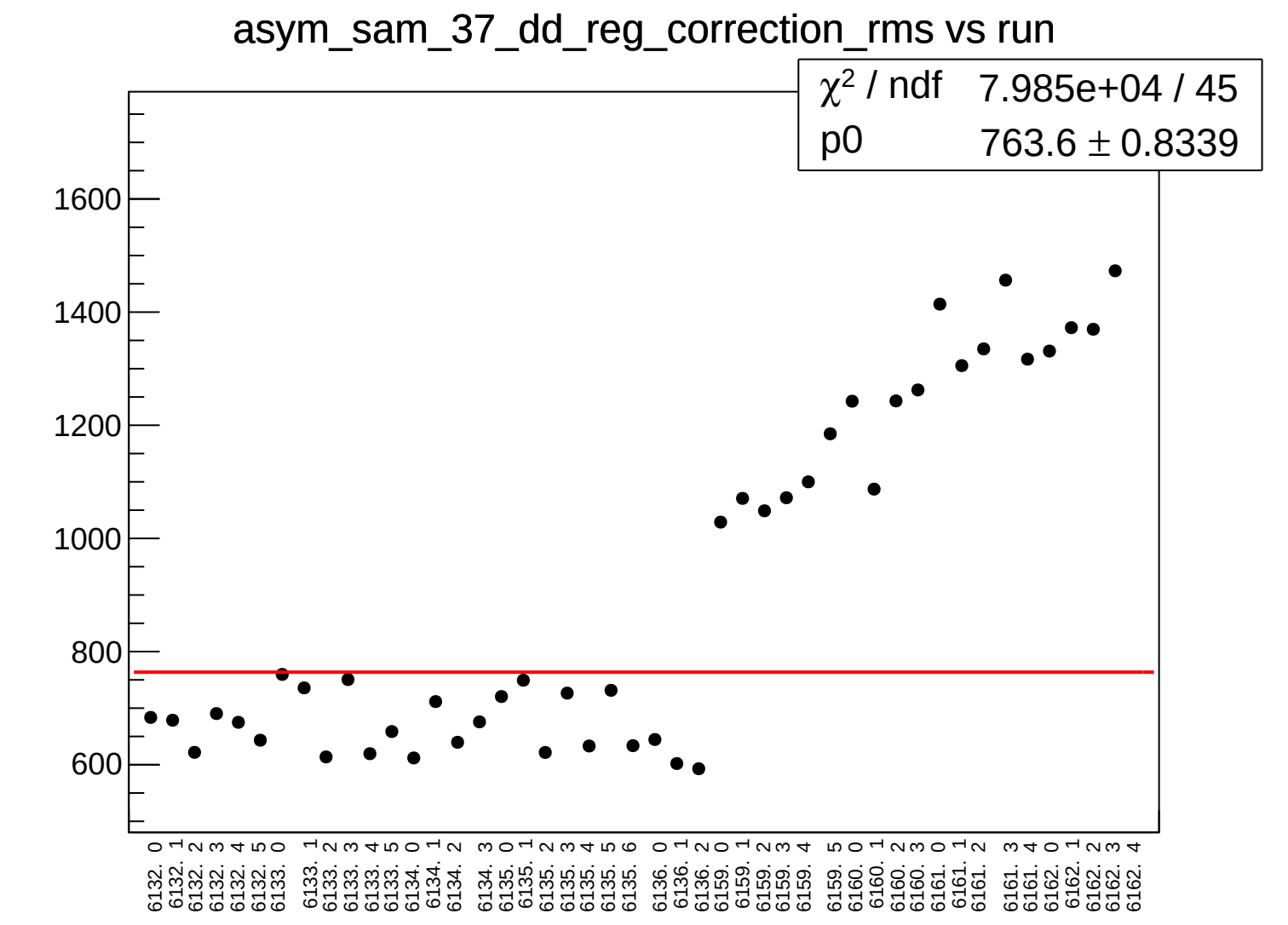

reg_asym_sam_37_dd_mean vs run
χ² / ndf 47.67 / 45
p0 −64.09 ± 92.25
3000
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 58.26
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

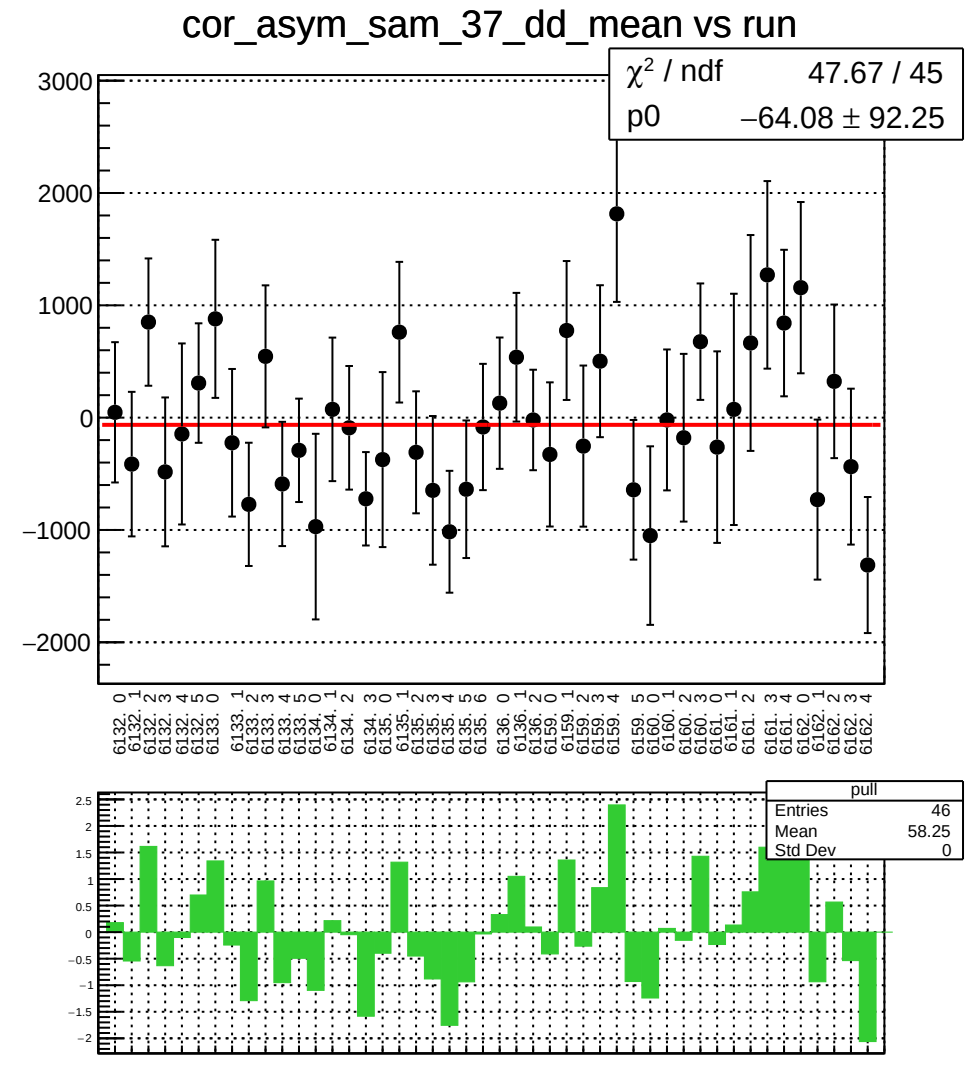

pull1D
Entries 46
Mean 0.03796
Std Dev 1.017
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

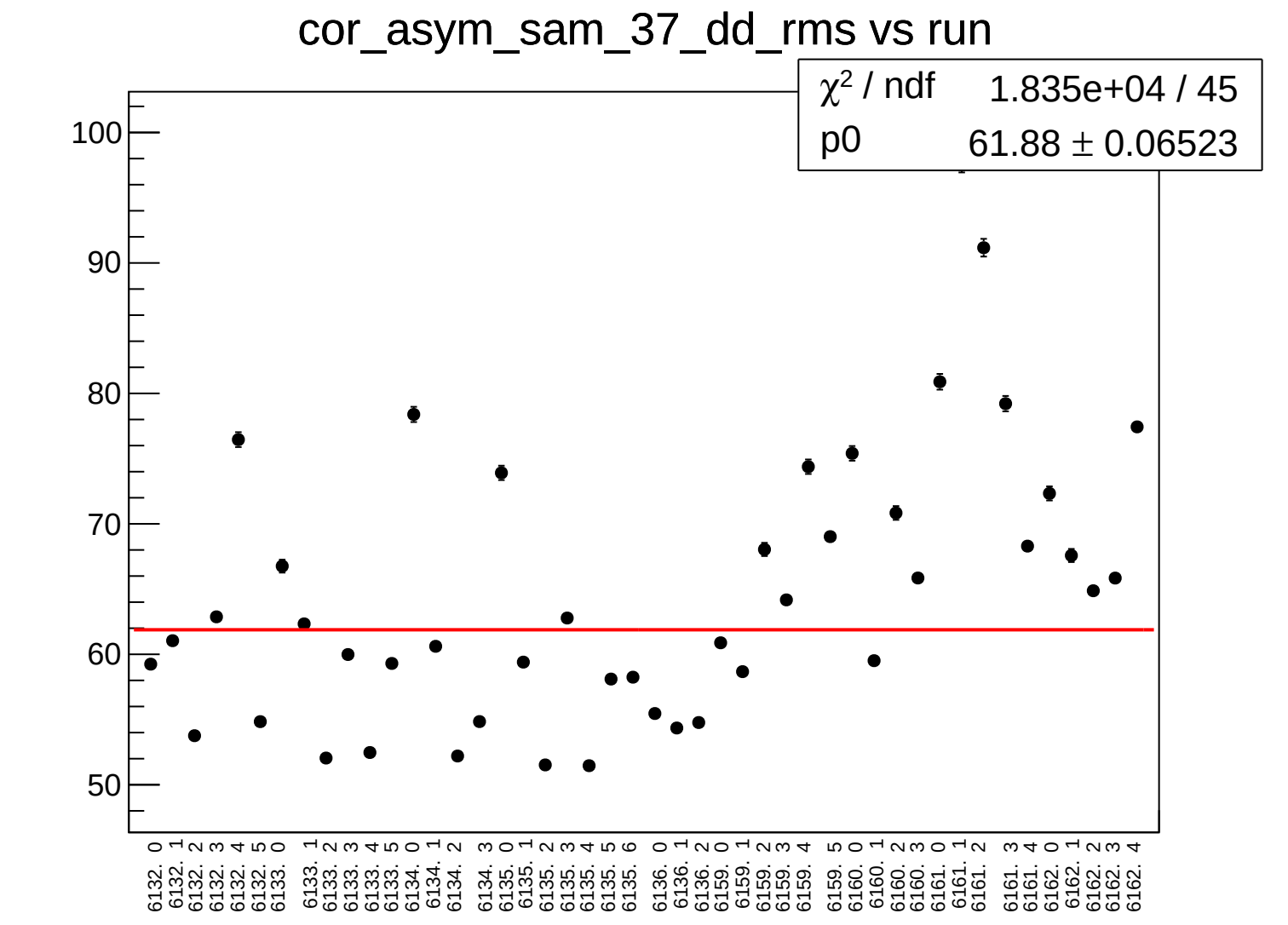

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.835e+04 / 45
p0 61.88 ± 0.06523
100
90
80
70
60
50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

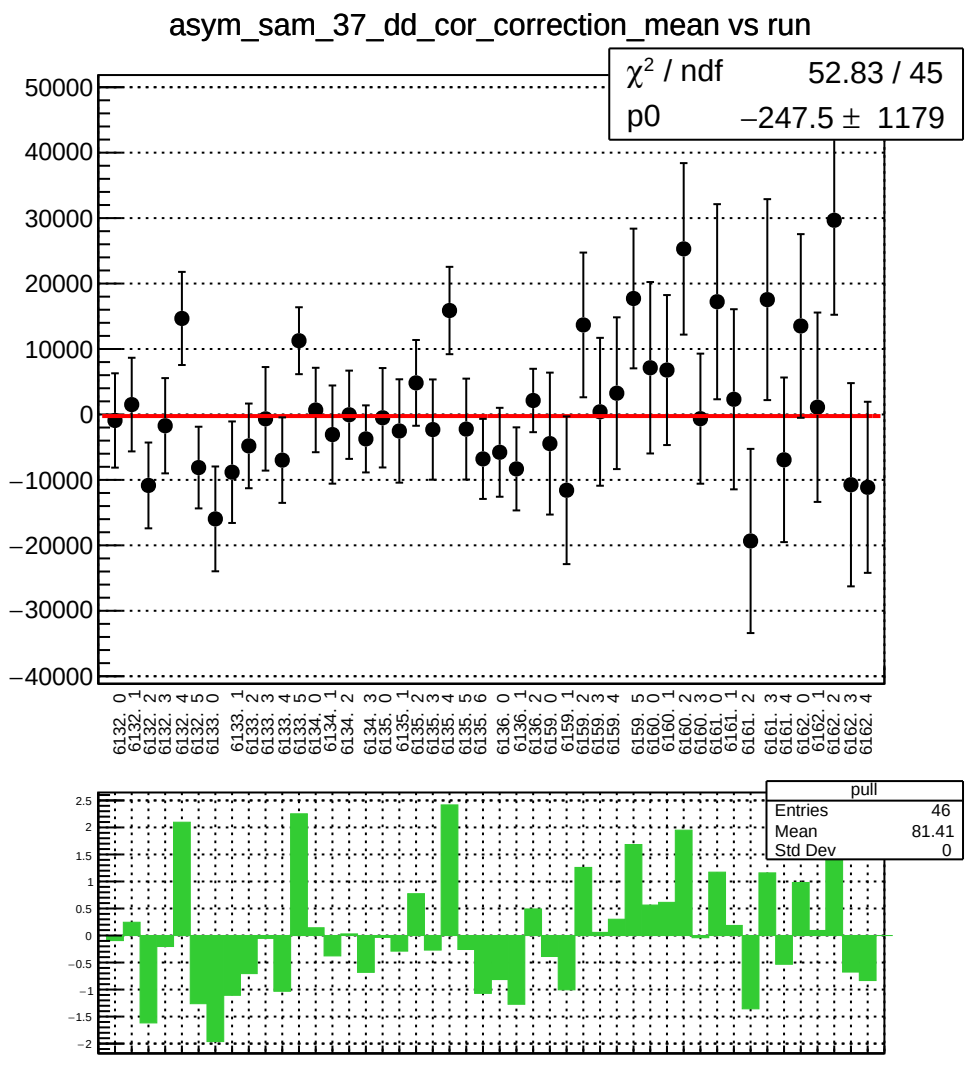

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 52.83 / 45
p0 −247.6 ± 1179
pull
Entries 46
Mean 81.41
Std Dev 0

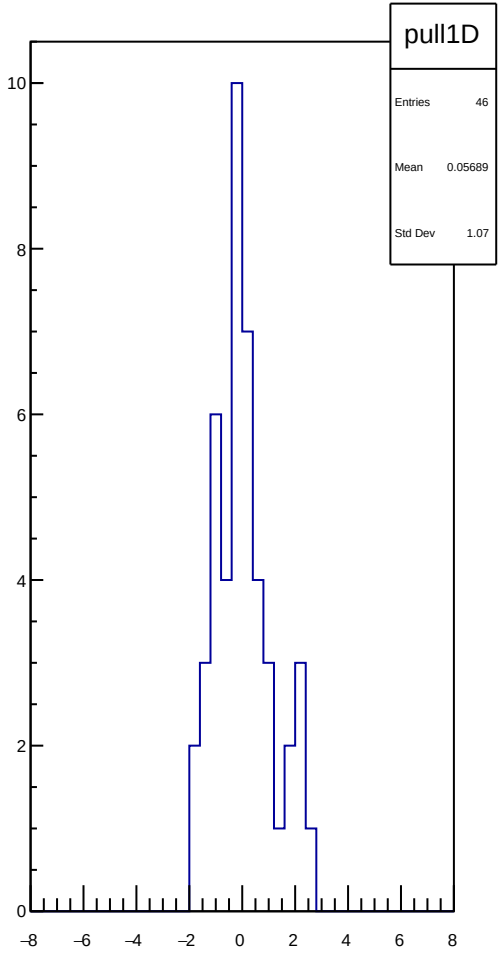

pull1D
Entries 46
Mean 0.05689
Std Dev 1.07

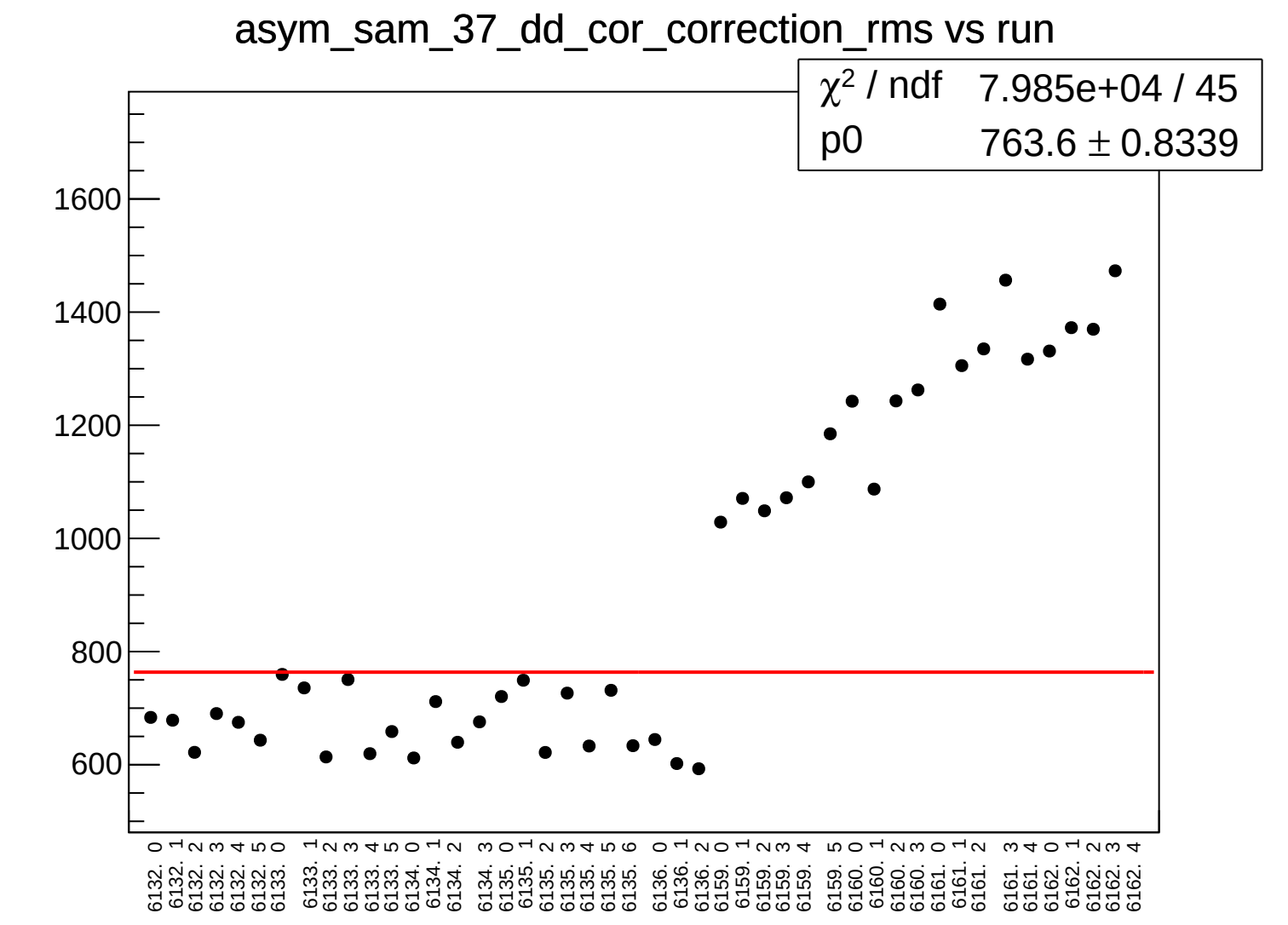

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 7.985e+04 / 45
p0 763.6 ± 0.8339
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

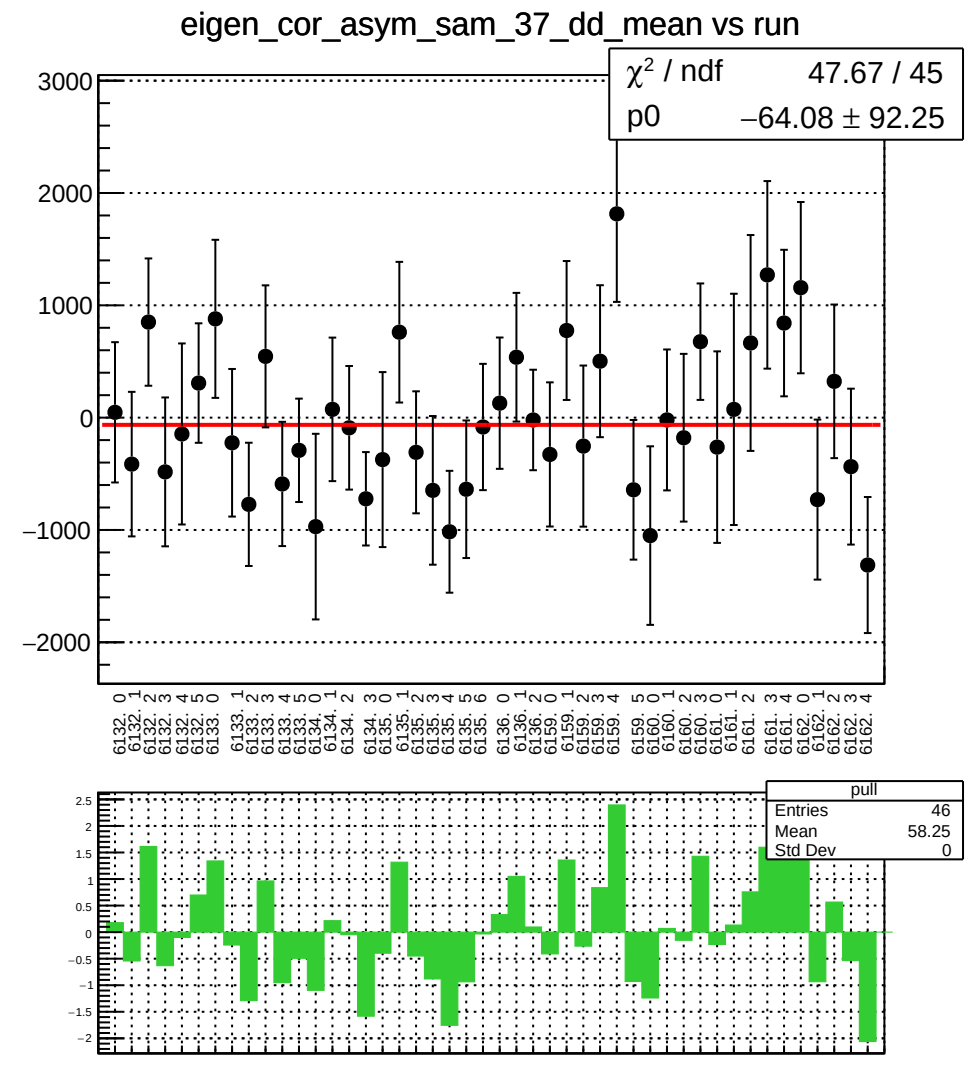

cor_asym_sam_37_dd_mean vs run
χ² / ndf 47.67 / 45
p0 −64.08 ± 92.25
3000
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 58.25
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.03796
Std Dev 1.017
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

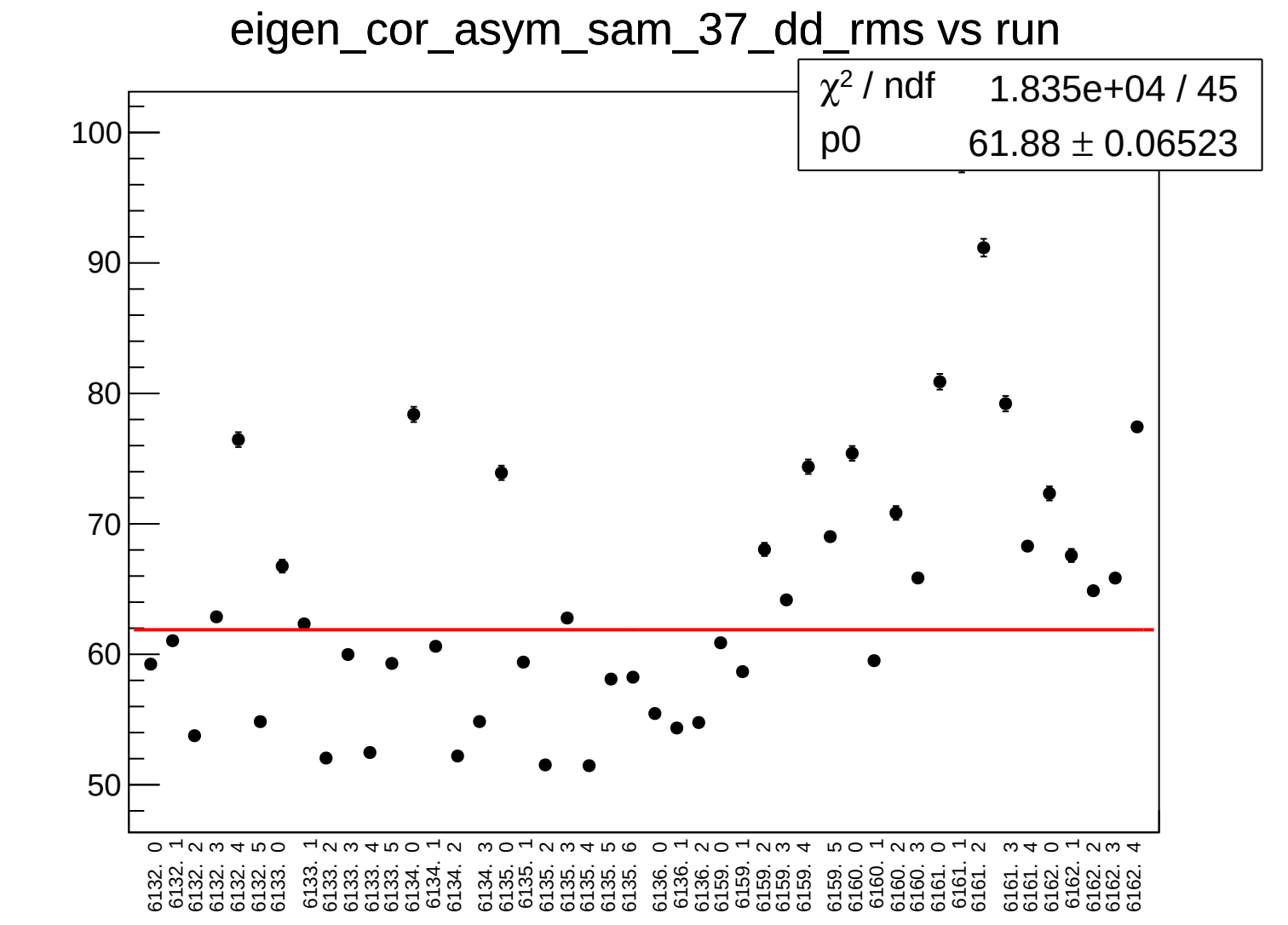

cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.835e+04 / 45
p0 61.88 ± 0.06523
100
90
80
70
60
50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

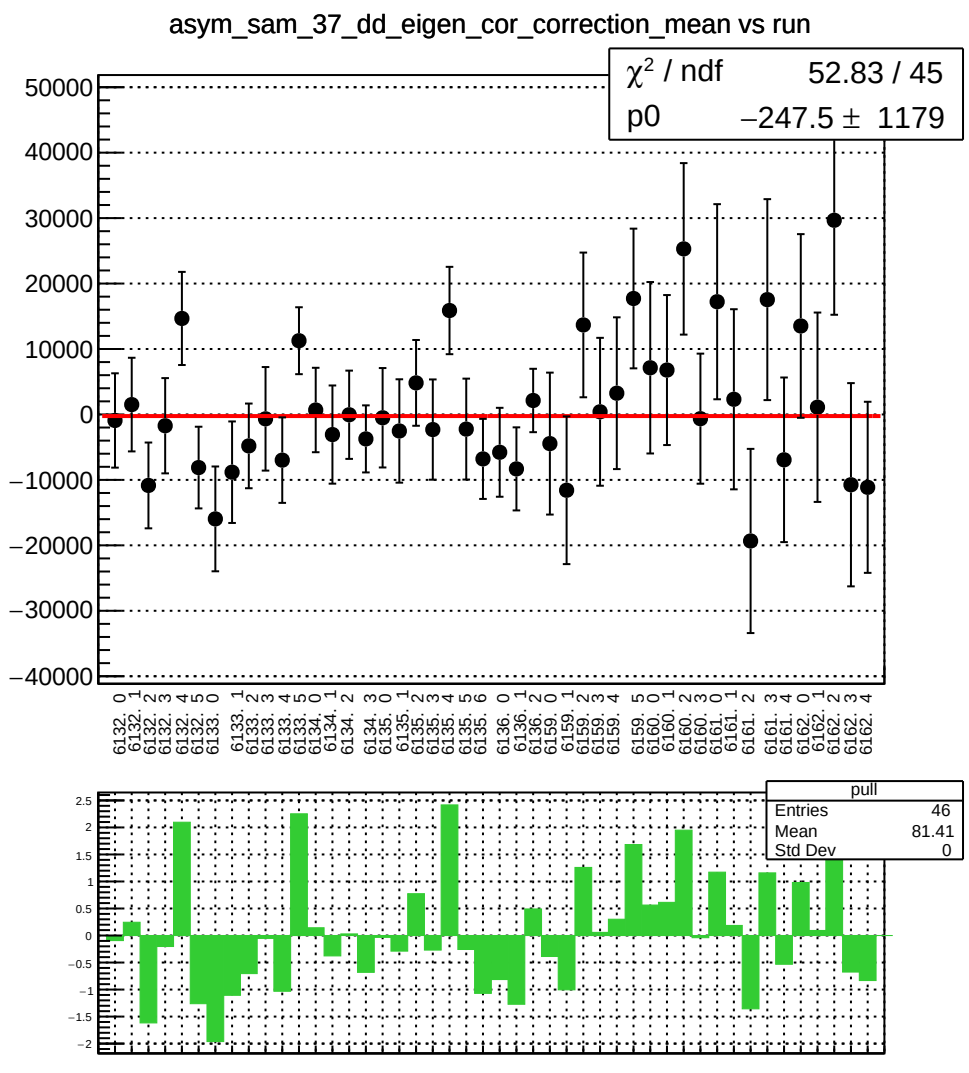

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 52.83 / 45
p0 −247.5 ± 1179
pull
Entries 46
Mean 81.41
Std Dev 0

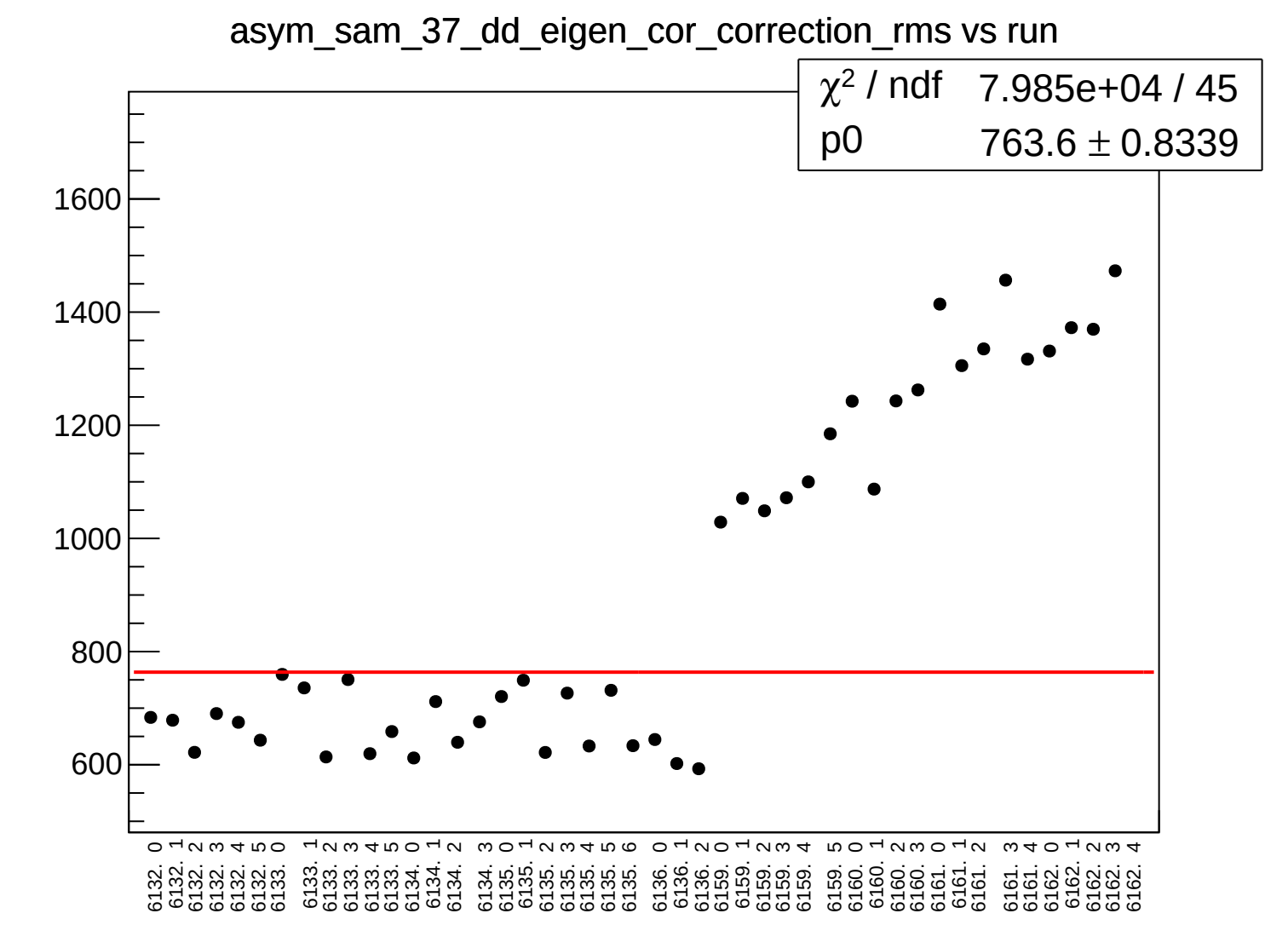

pull1D
Entries 46
Mean 0.05689
Std Dev 1.07


asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 7.985e+04 / 45
p0 763.6 ± 0.8339
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 47.67 / 45
p0 −64.08 ± 92.25
3000
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 58.25
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.03796
Std Dev 1.017
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.835e+04 / 45
p0 61.88 ± 0.06523
100
90
80
70
60
50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 52.83 / 45
p0 −247.5 ± 1179
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 81.41
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.05689
Std Dev 1.07
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 7.985e+04 / 45
p0 763.6 ± 0.8339
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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6135. 2
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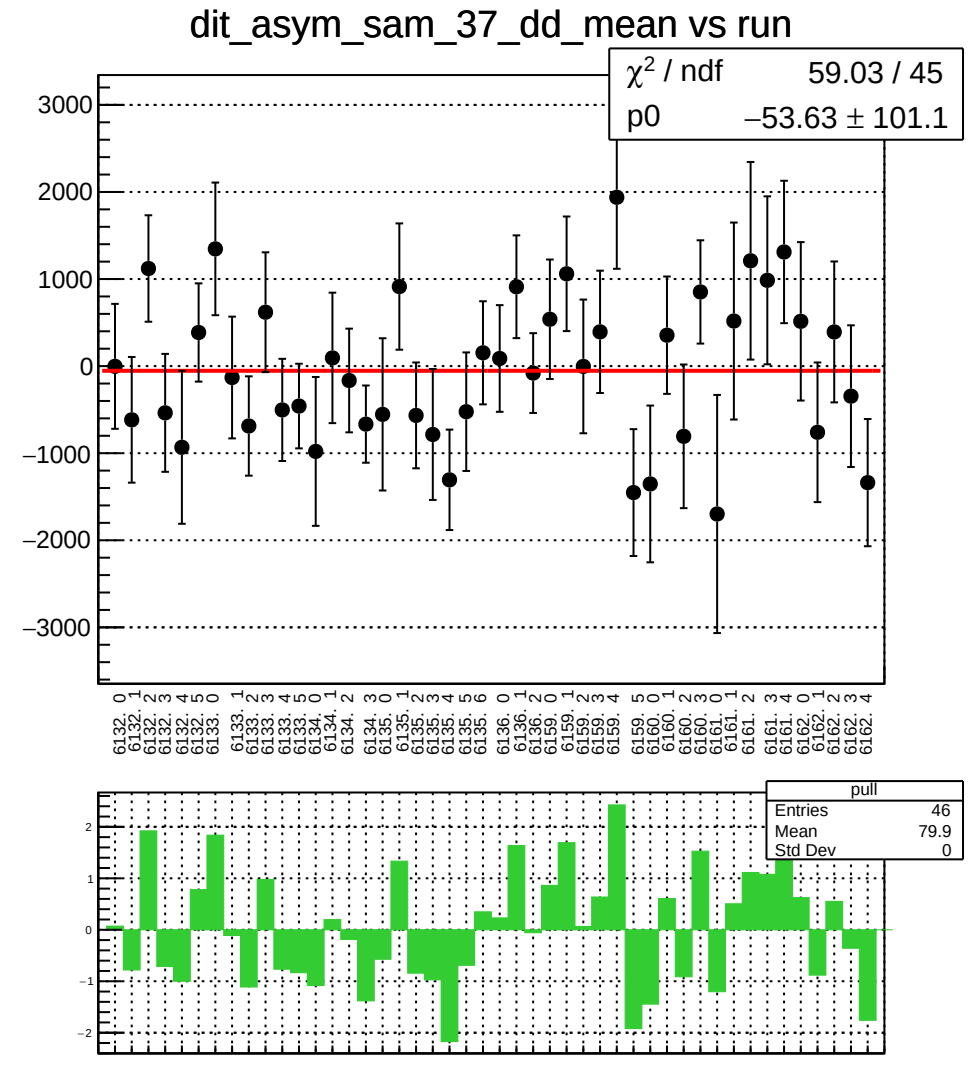
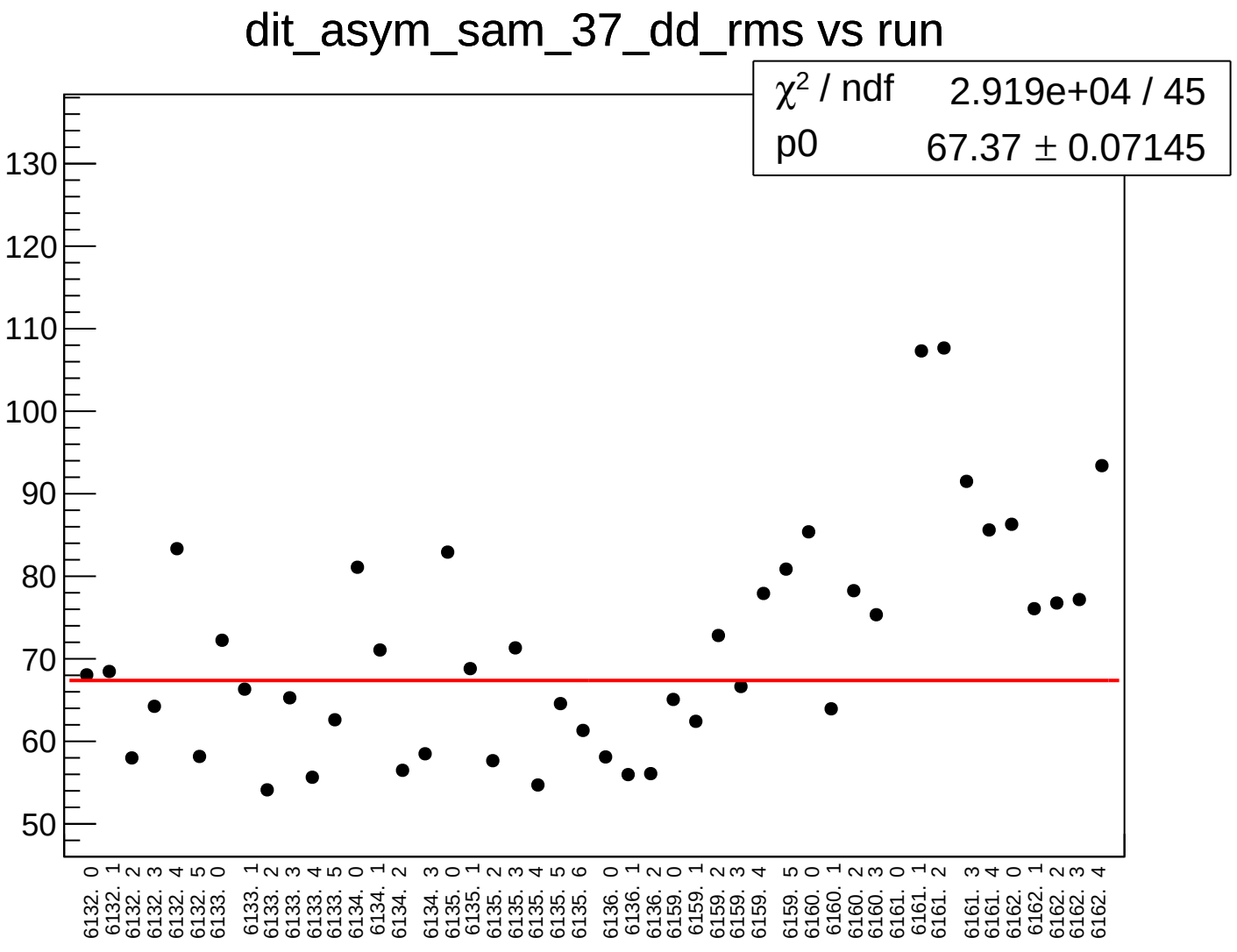
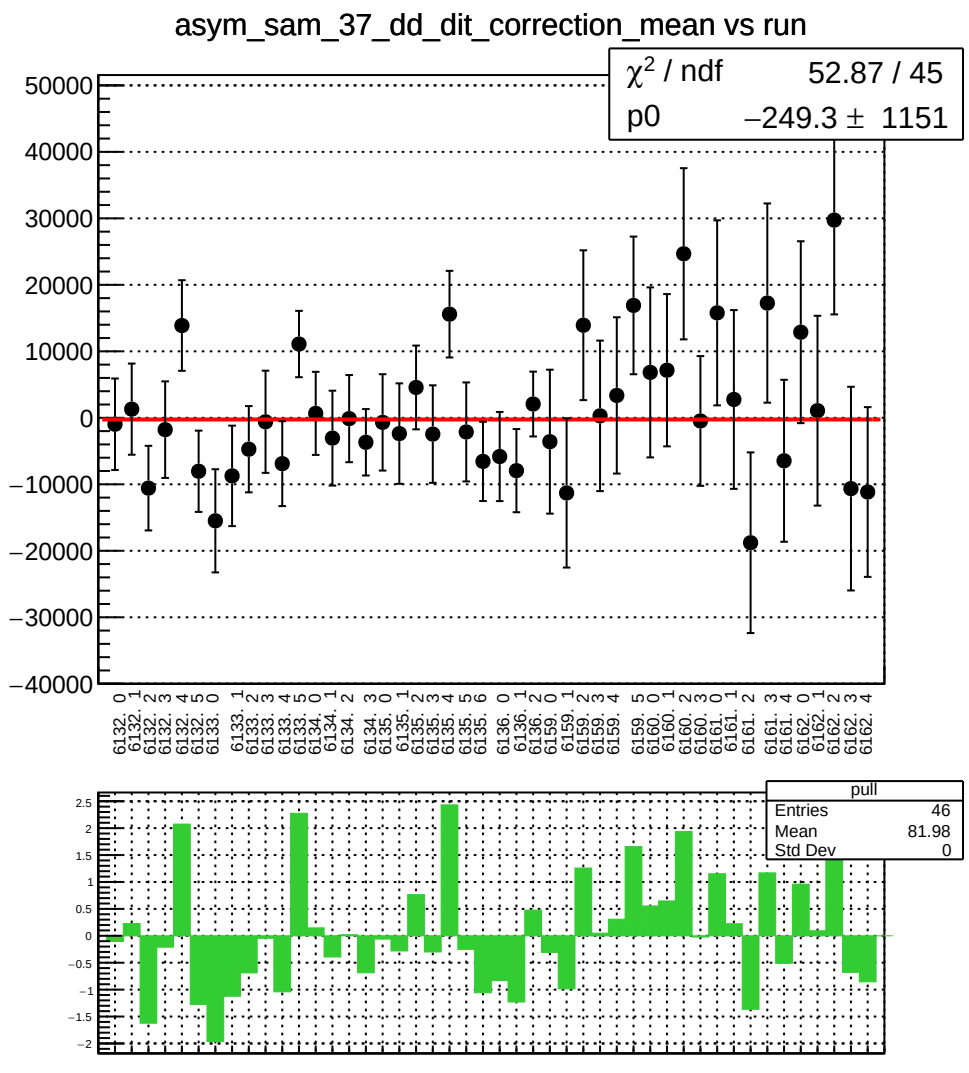
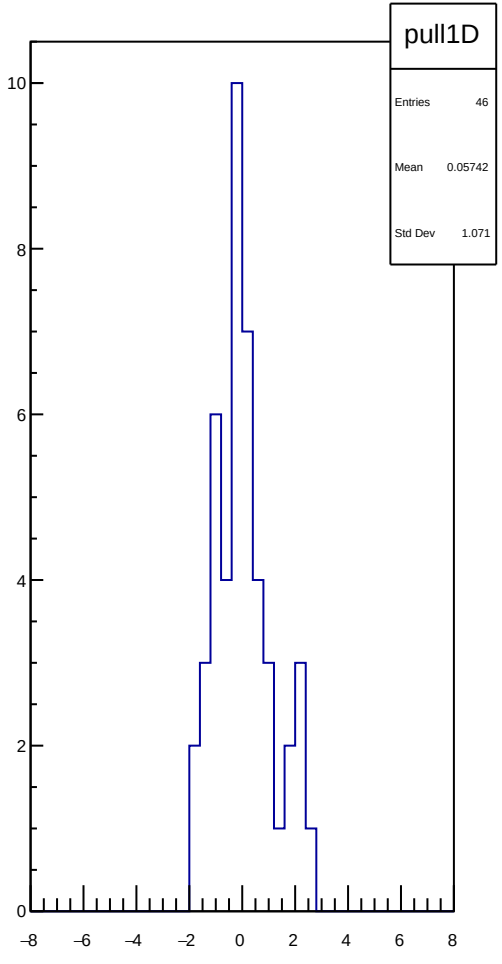
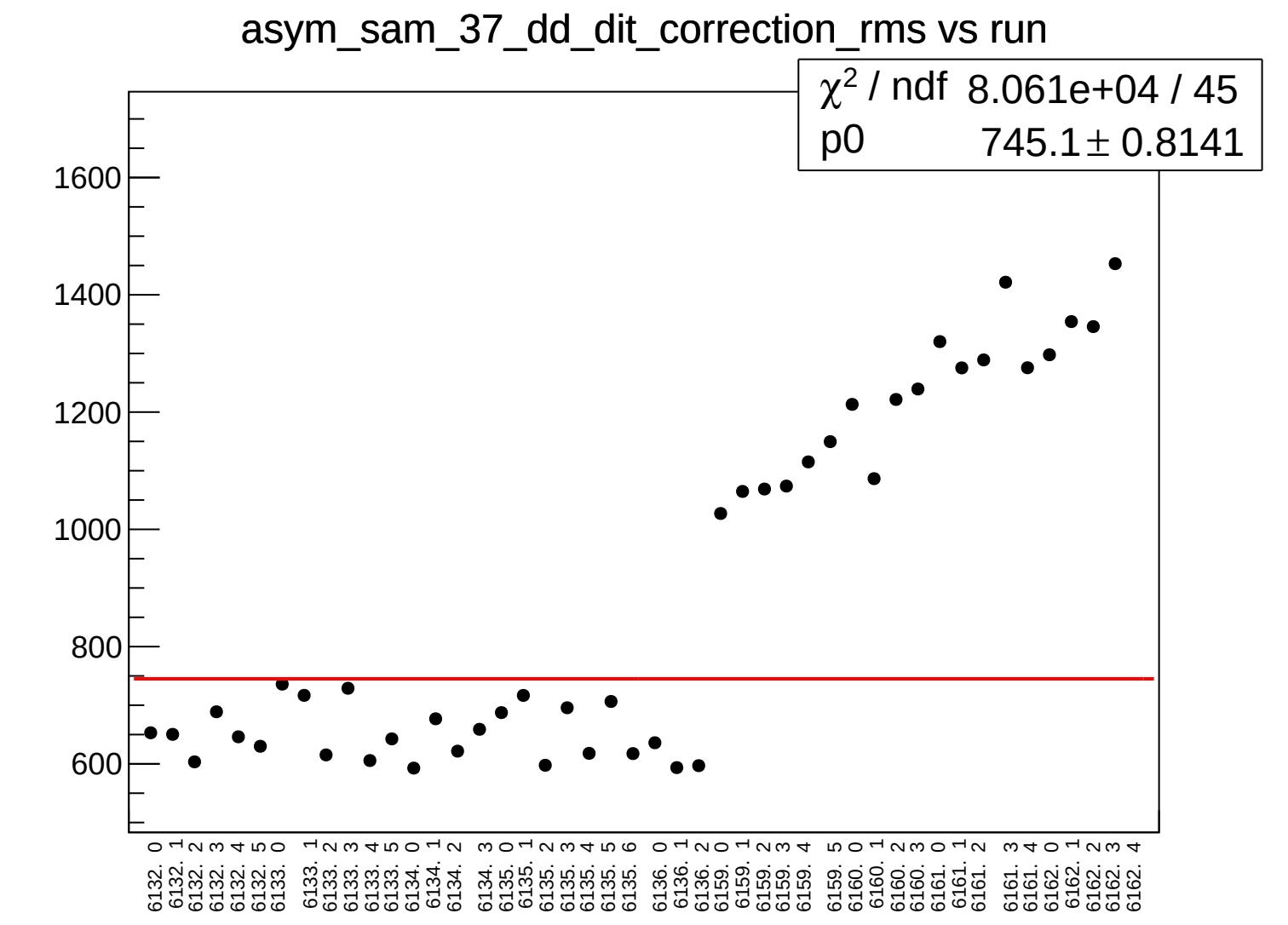
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

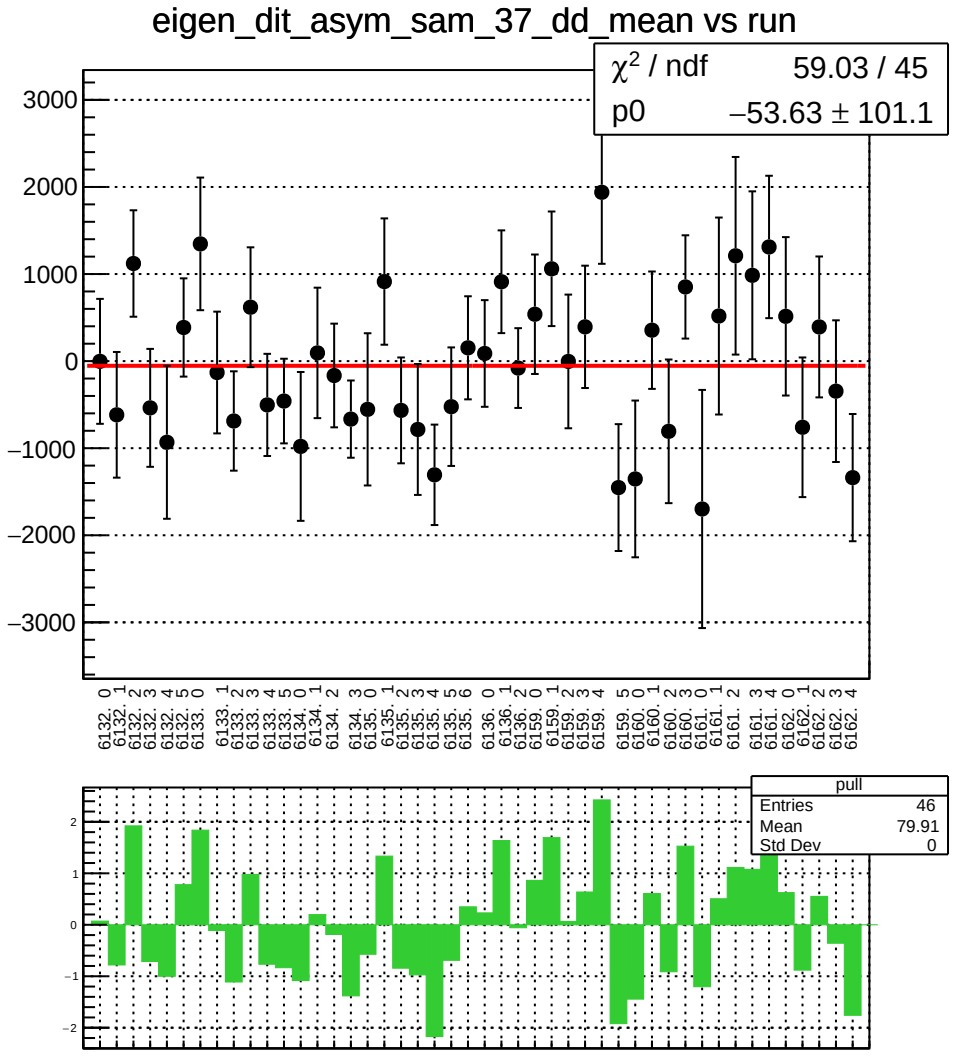

dit_asym_sam_37_dd_mean vs run
χ² / ndf 59.03 / 45
p0 −53.63 ± 101.1
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6136. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 79.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02054
Std Dev 1.133
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

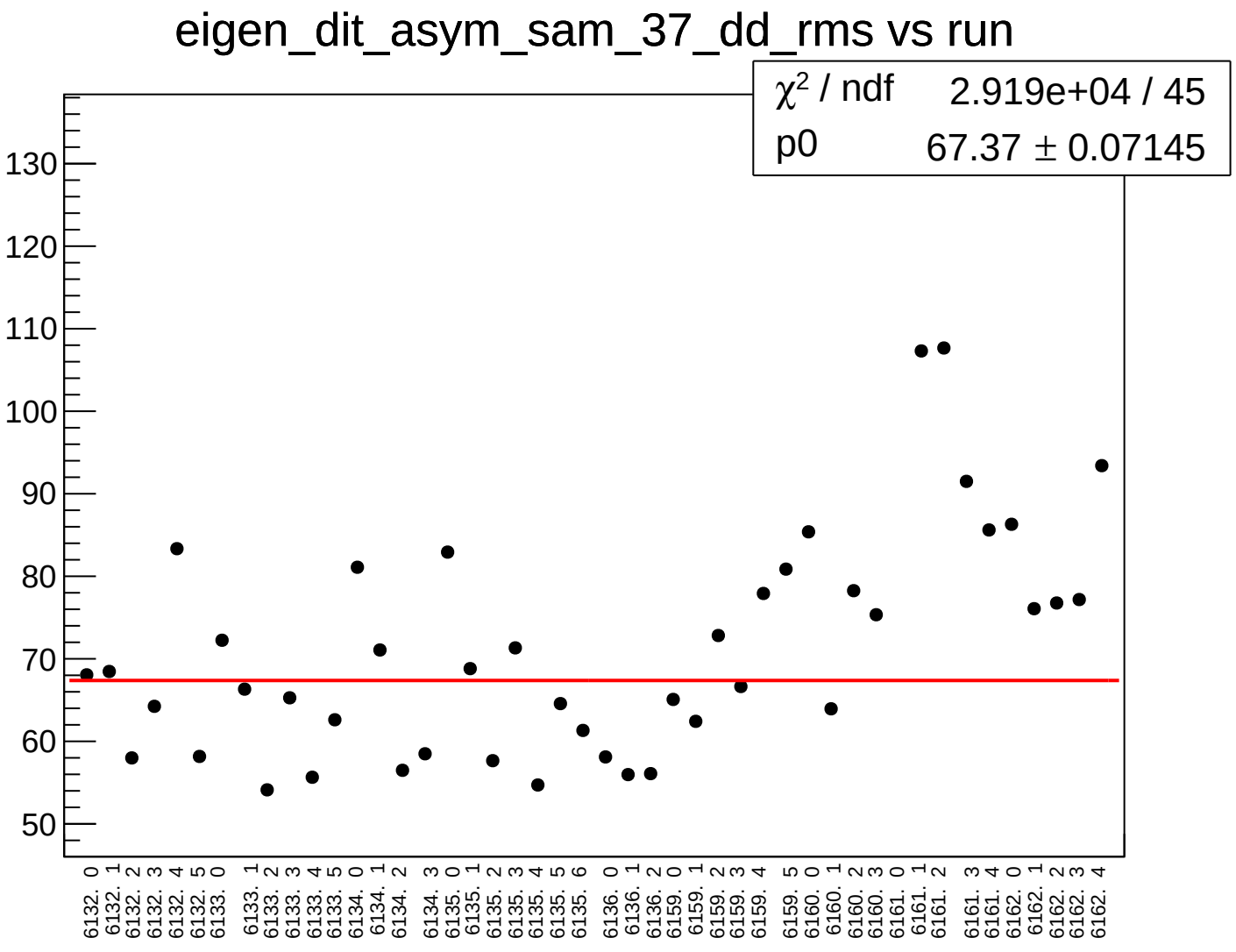

dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.919e+04 / 45
p0 67.37 ± 0.07145
130
120
110
100
90
80
70
60
50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

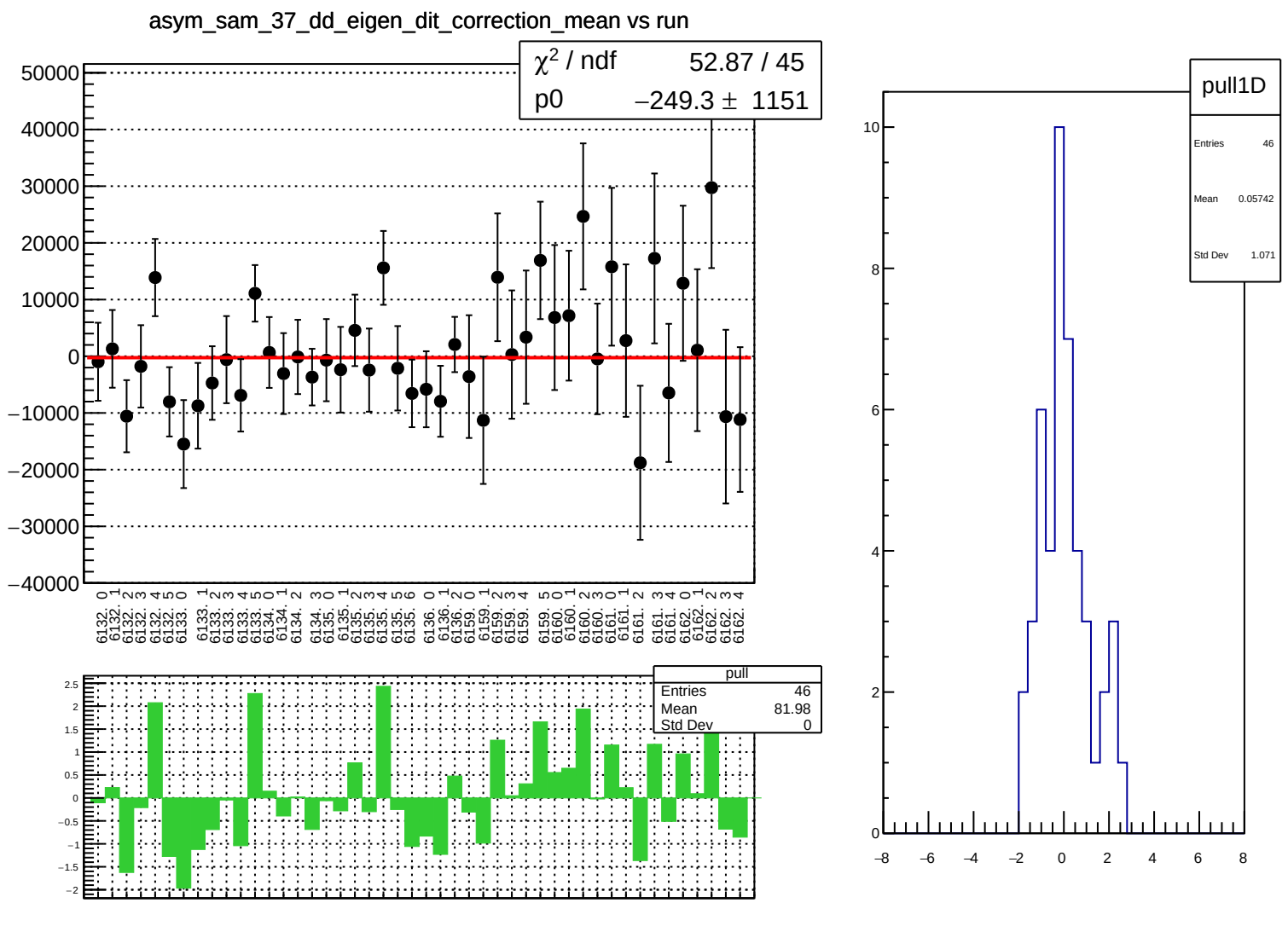

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 52.87 / 45
p0 −249.3 ± 1151
pull
Entries 46
Mean 81.98
Std Dev 0

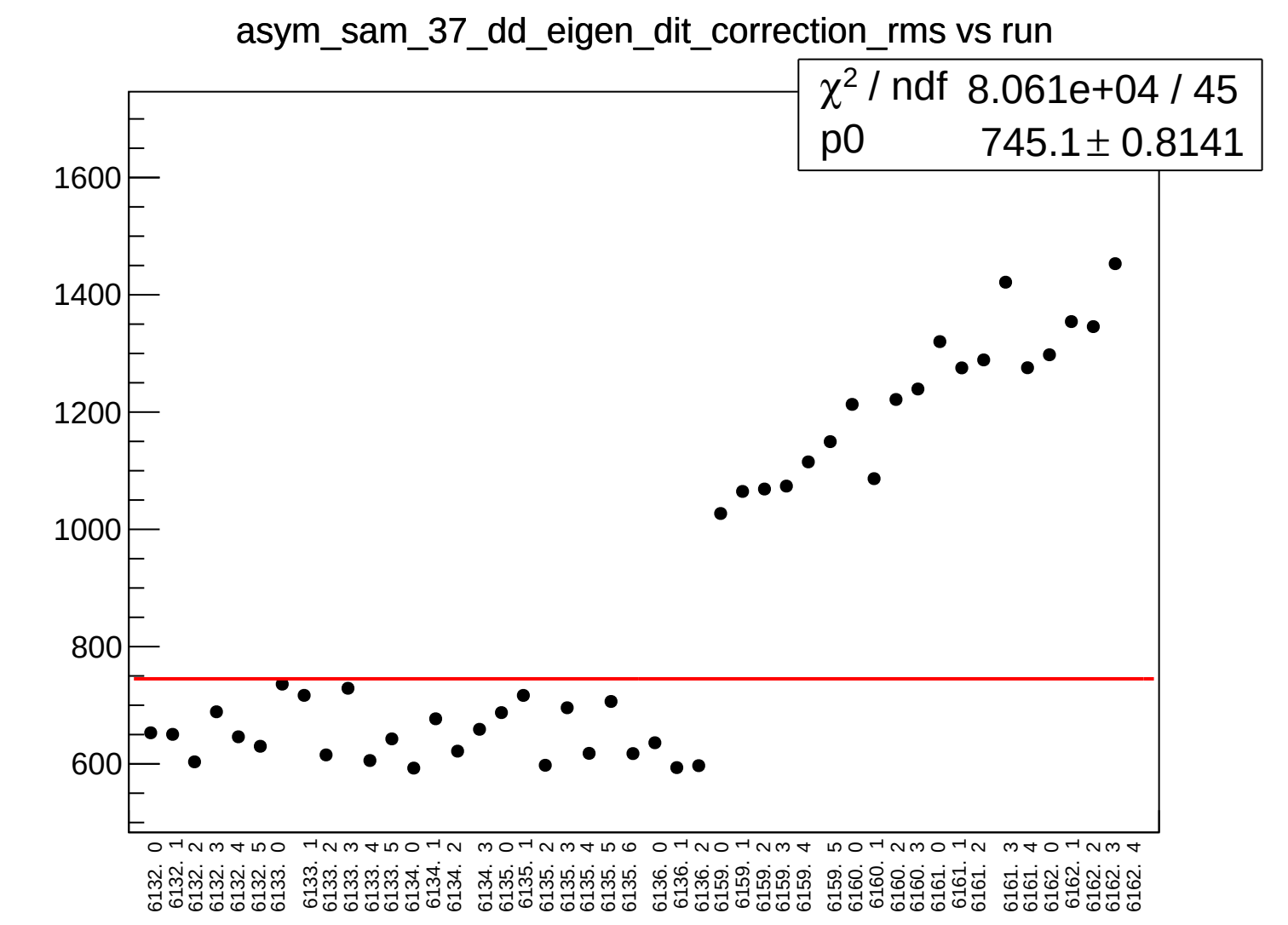

pull1D
Entries 46
Mean 0.05742
Std Dev 1.071

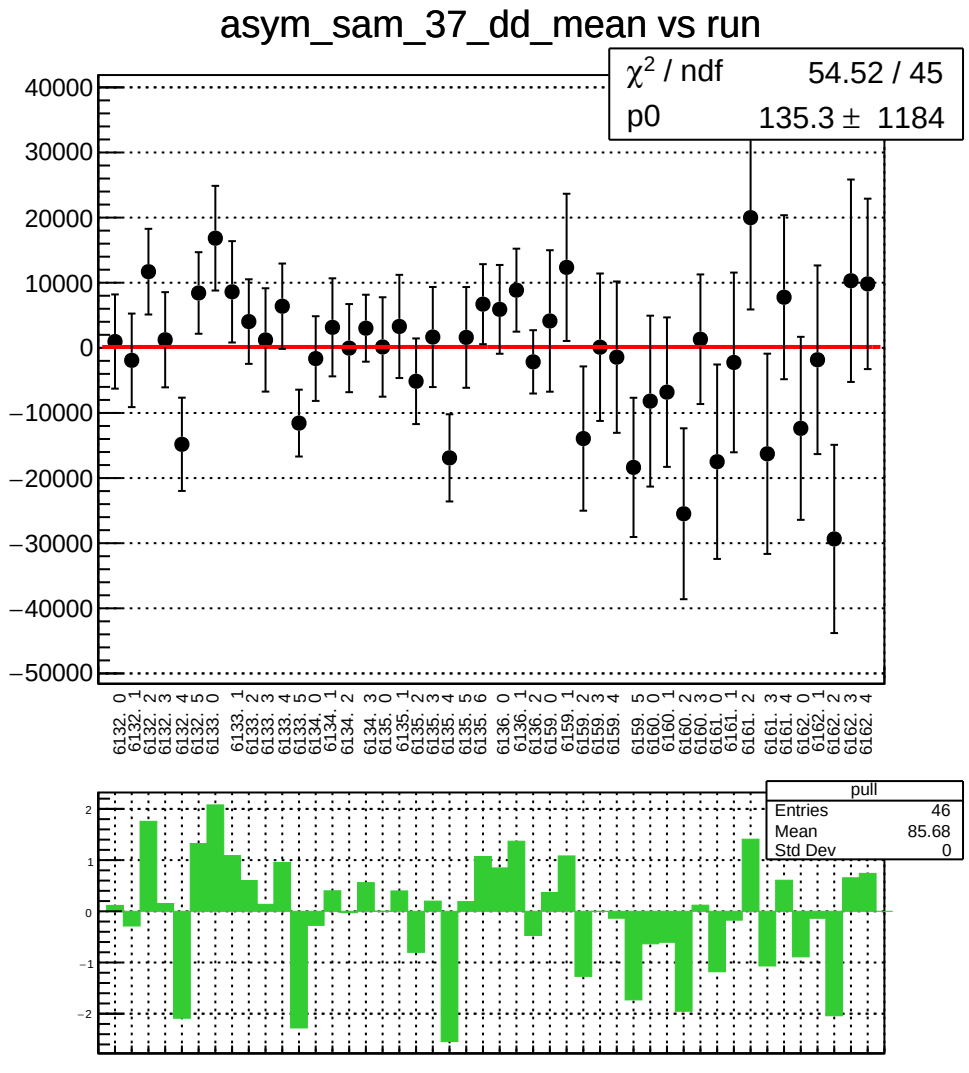

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 8.061e+04 / 45
p0 745.1 ± 0.8141
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

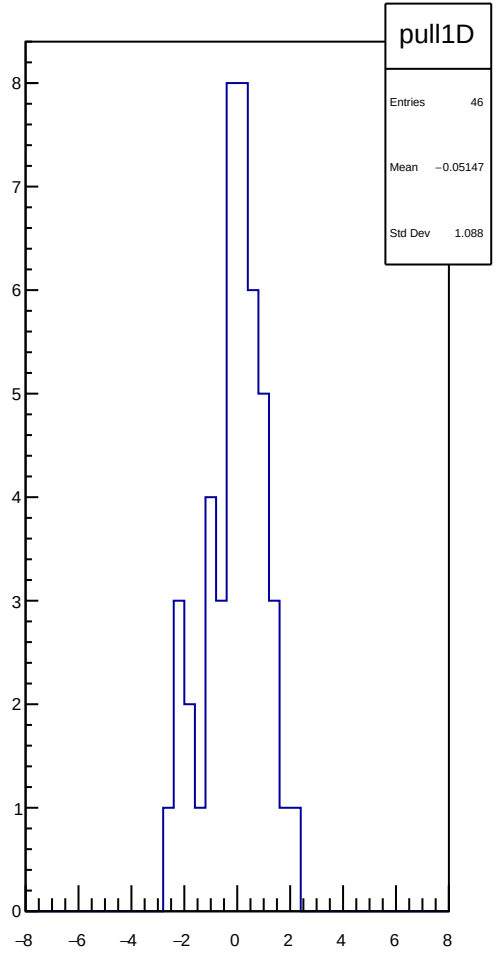

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 59.03 / 45
p0 −53.63 ± 101.1
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 79.91
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02053
Std Dev 1.133
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

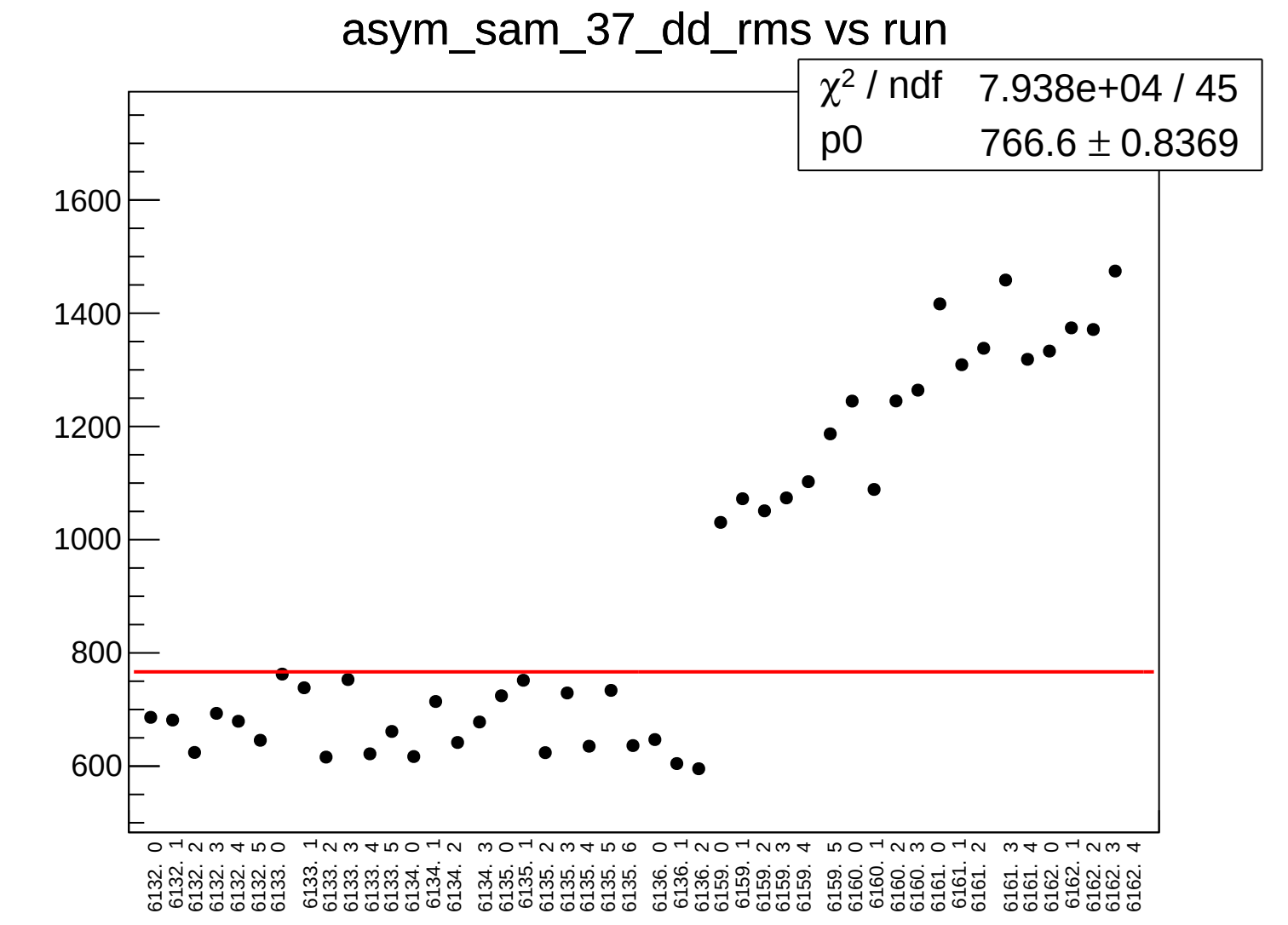

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.919e+04 / 45
p0 67.37 ± 0.07145
130
120
110
100
90
80
70
60
50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

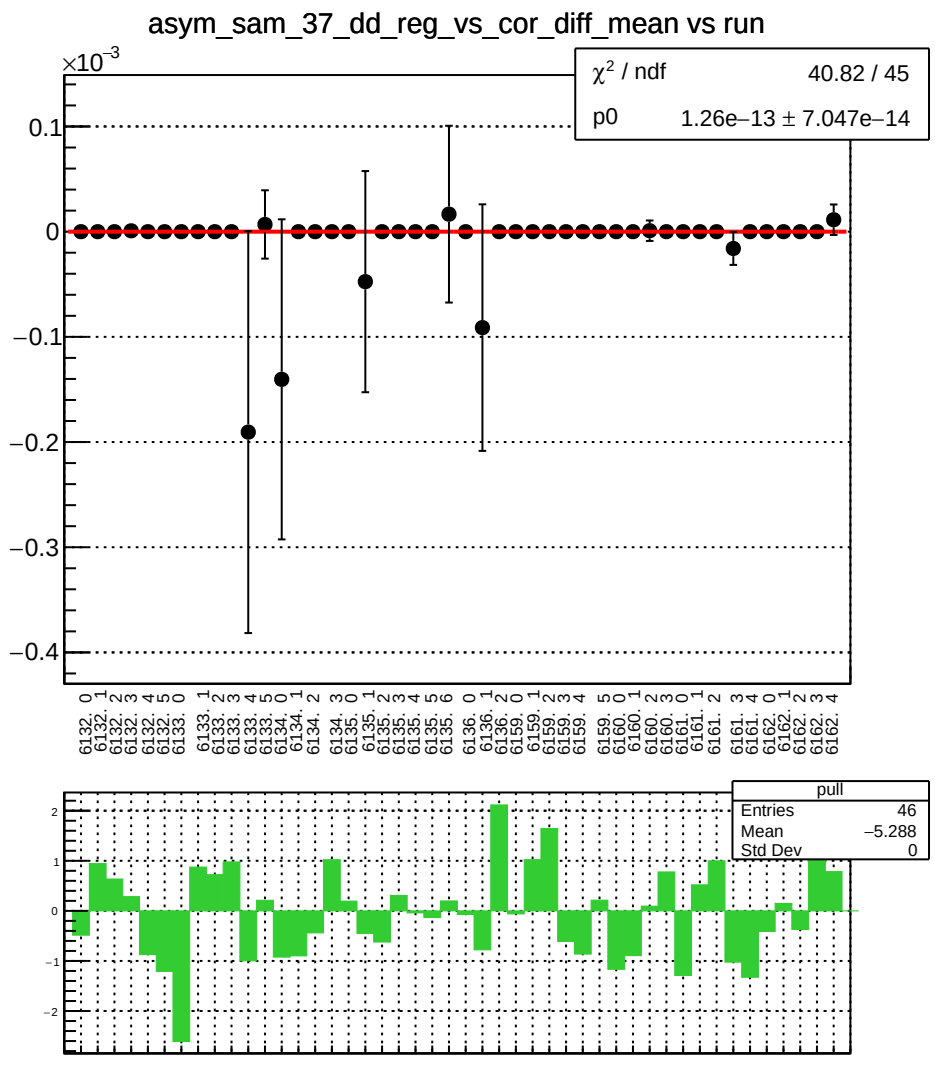

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 52.87 / 45
p0 −249.3 ± 1151
pull
Entries 46
Mean 81.98
Std Dev 0
pull1D
Entries 46
Mean 0.05742
Std Dev 1.071

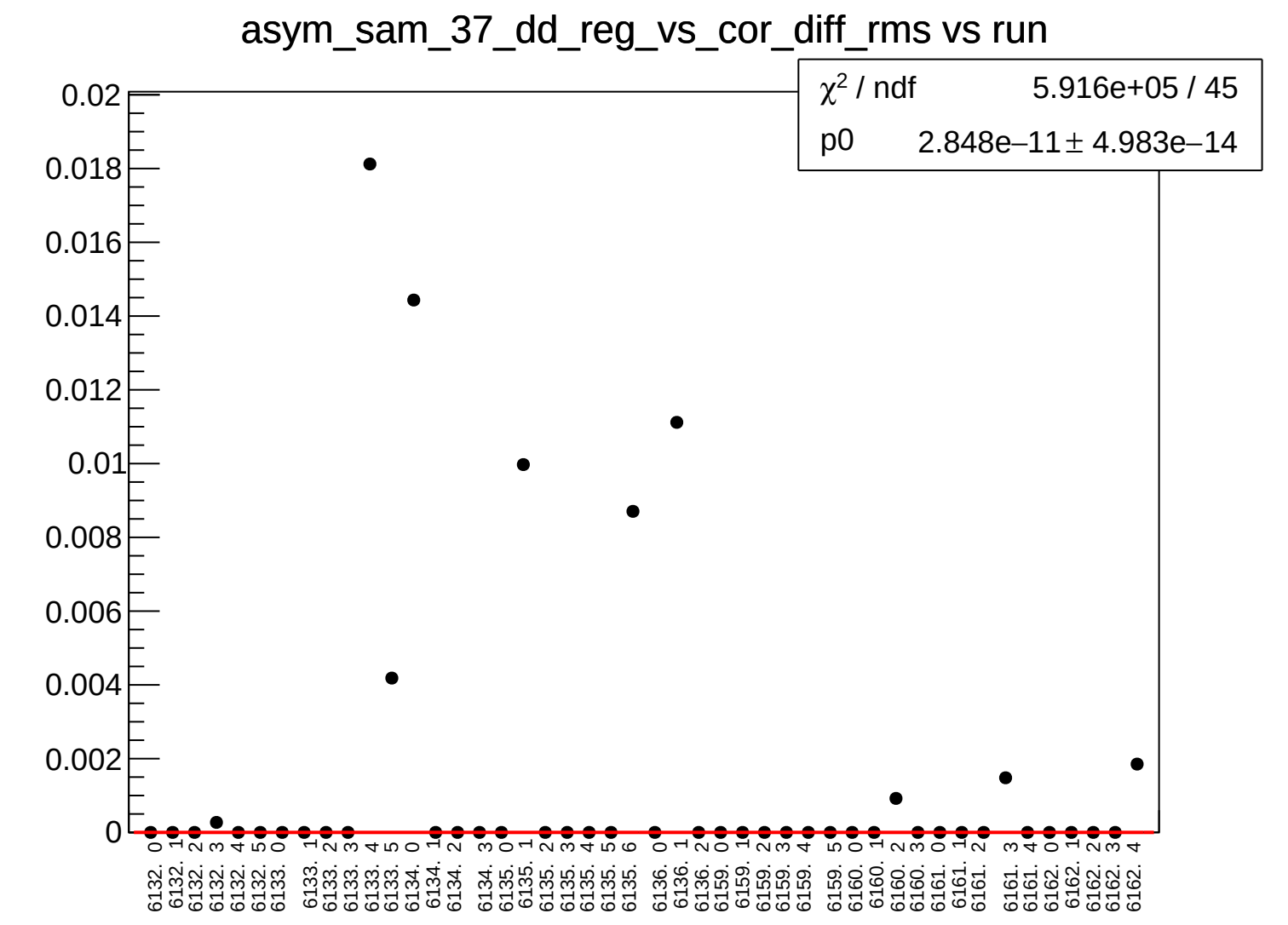

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 8.061e+04 / 45
p0 745.1 ± 0.8141
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

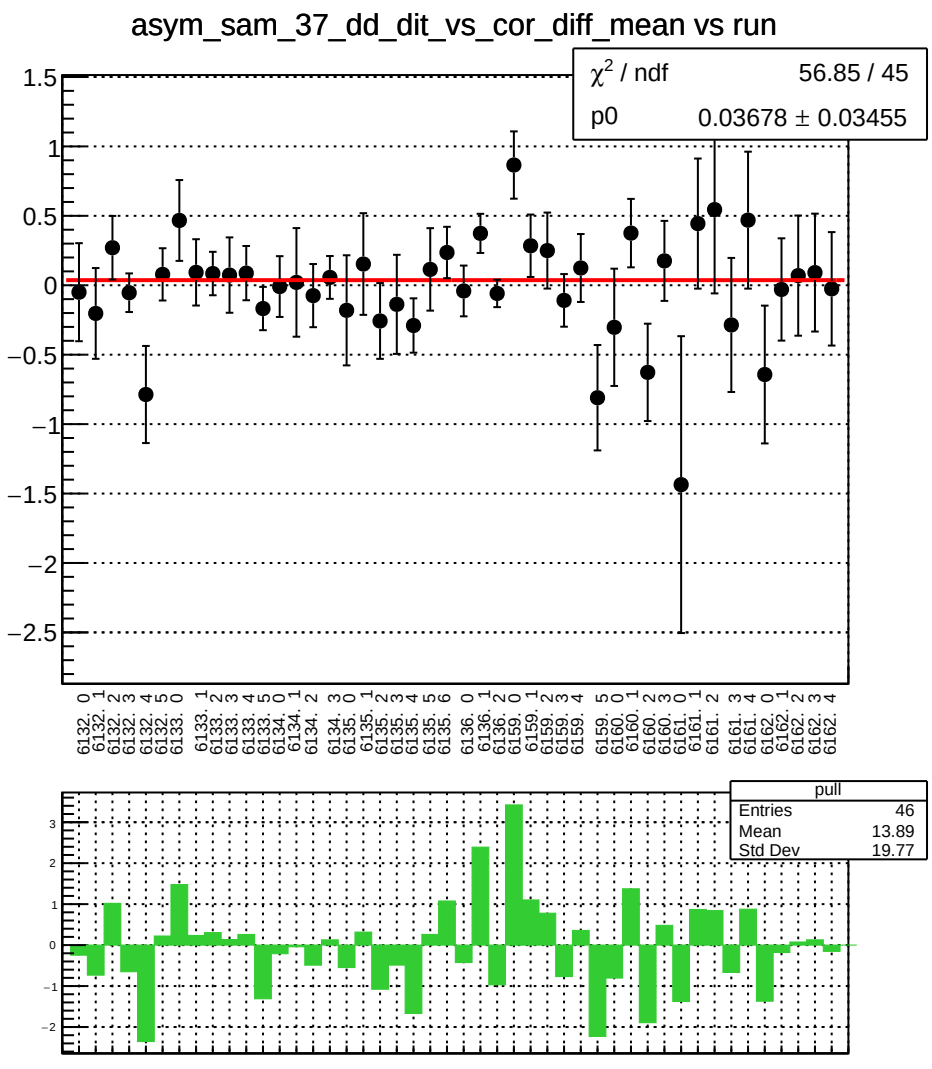

asym_sam_37_dd_mean vs run
χ² / ndf 54.52 / 45
p0 135.3 ± 1184
pull
Entries 46
Mean 85.68
Std Dev 0

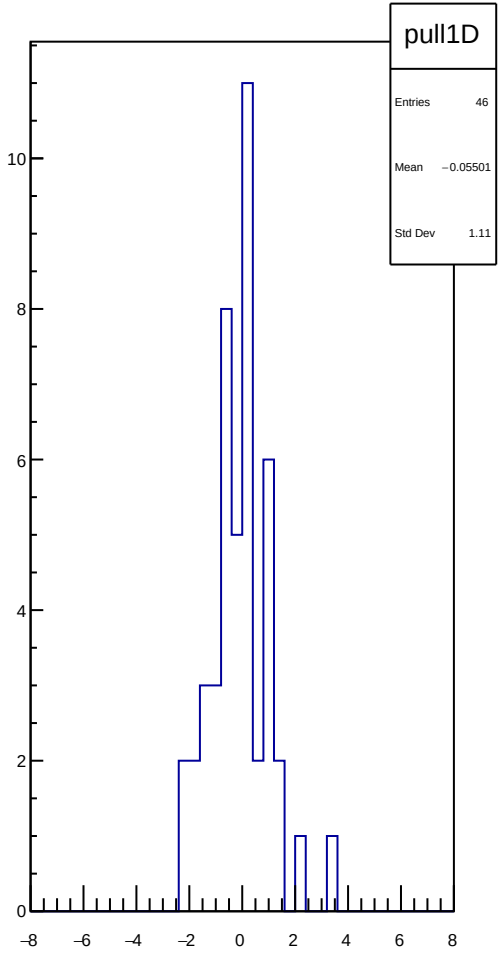

pull1D
Entries 46
Mean −0.05147
Std Dev 1.088

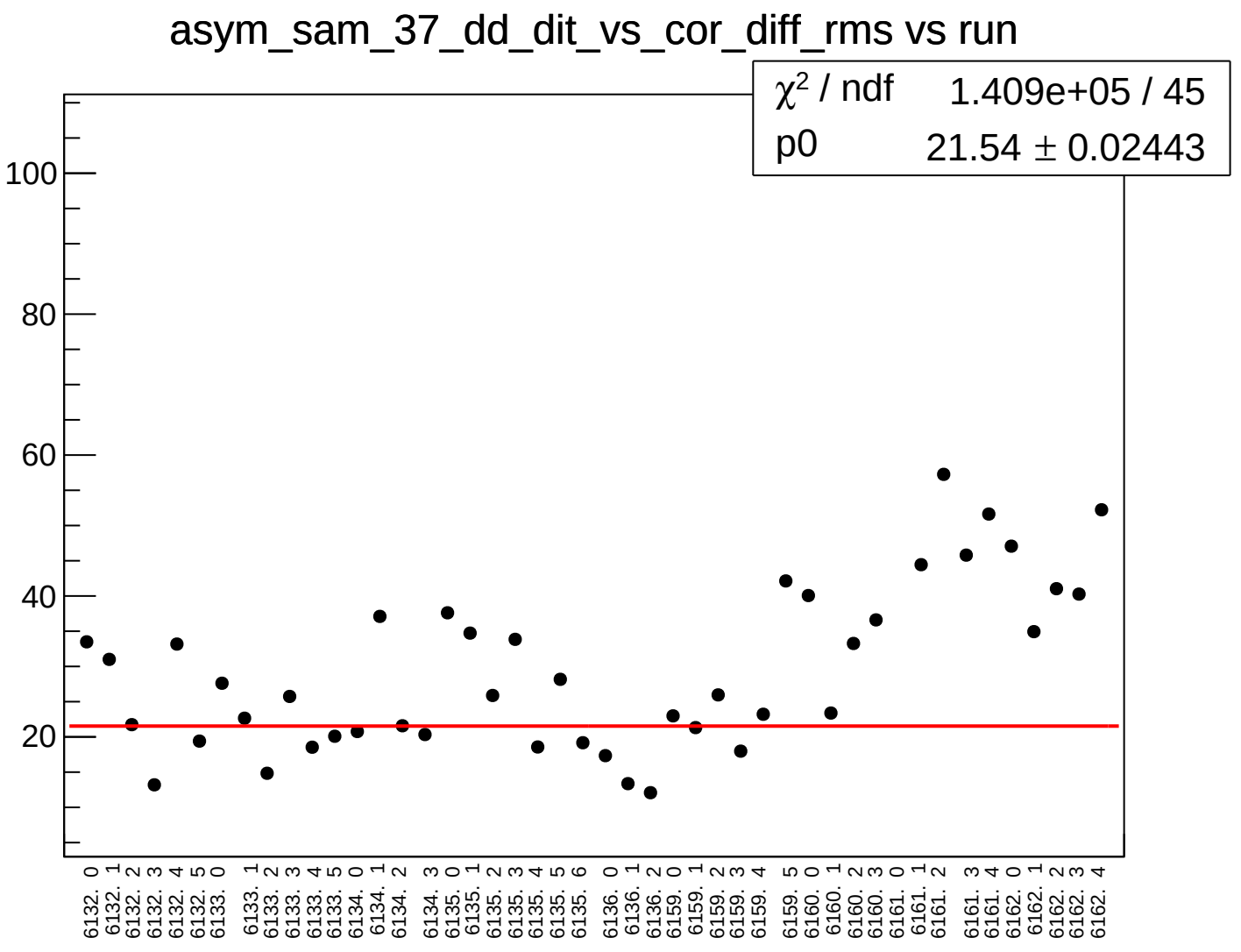

asym_sam_37_dd_rms vs run
χ² / ndf 7.938e+04 / 45
p0 766.6 ± 0.8369
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

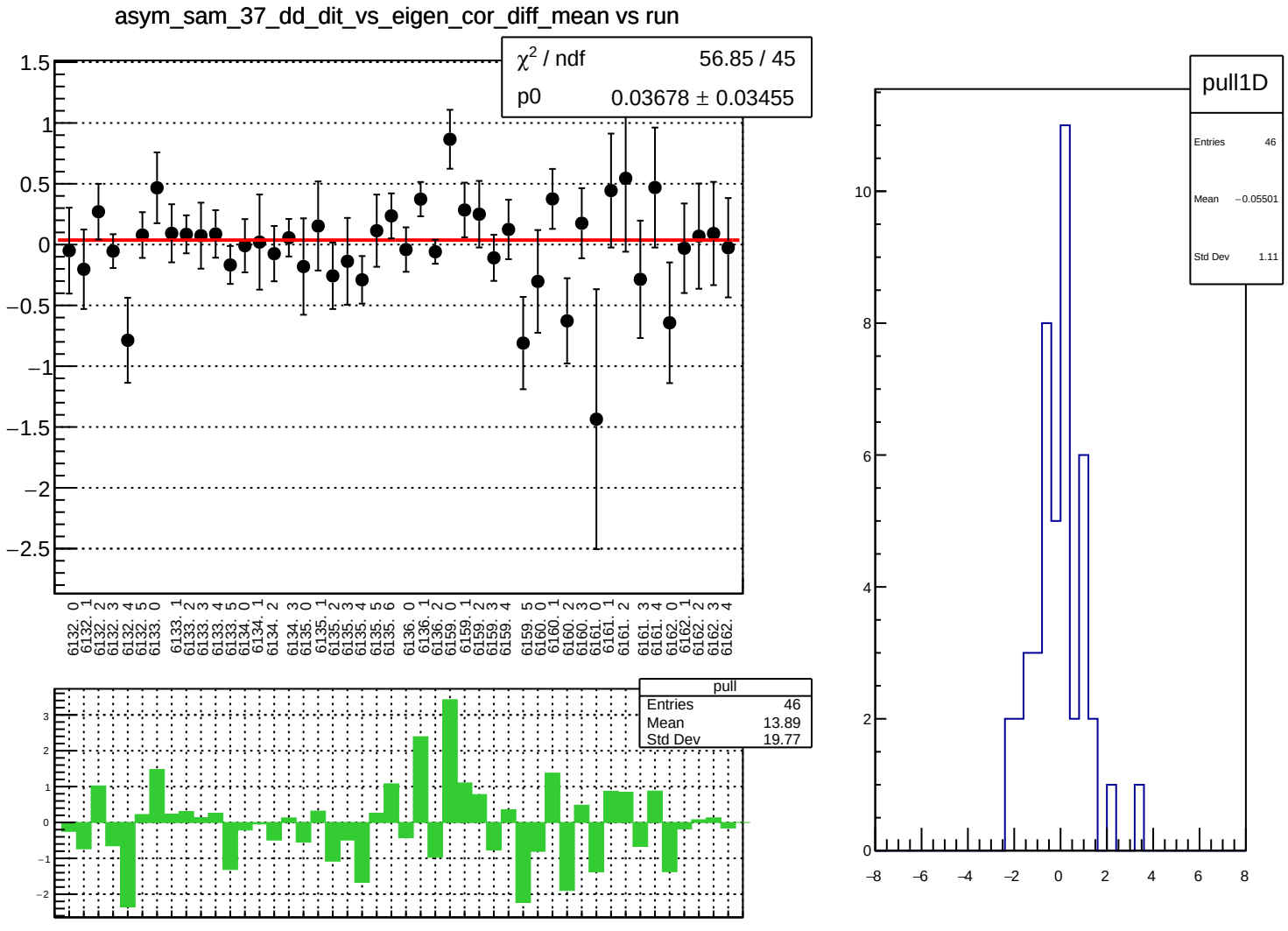

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 40.82 / 45
p0 1.26e−13 ± 7.047e−14
0.1
0
−0.1
−0.2
−0.3
−0.4
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −5.288
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.04175
Std Dev 0.9411
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

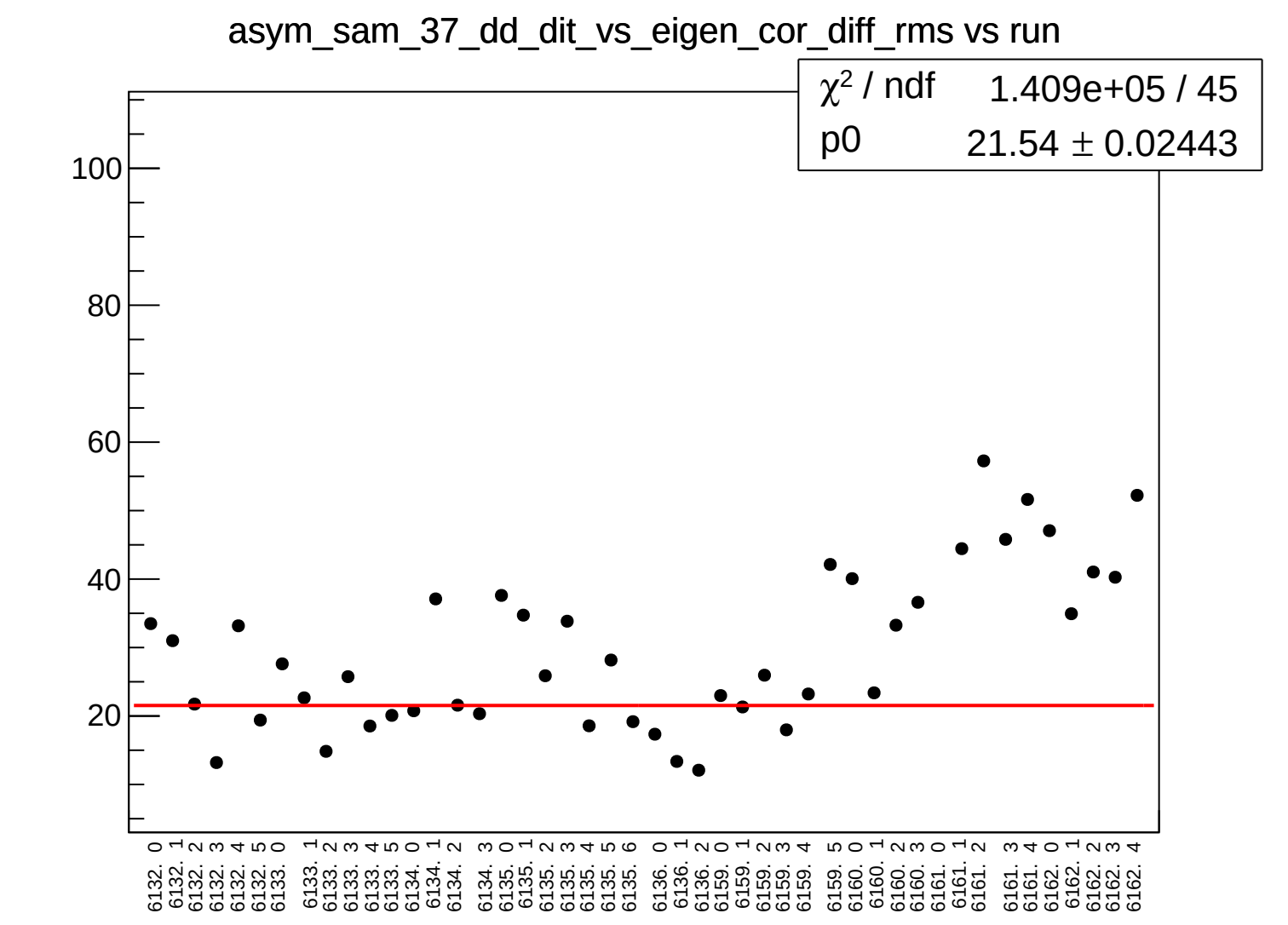

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.916e+05 / 45
p0 2.848e−11 ± 4.983e−14
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

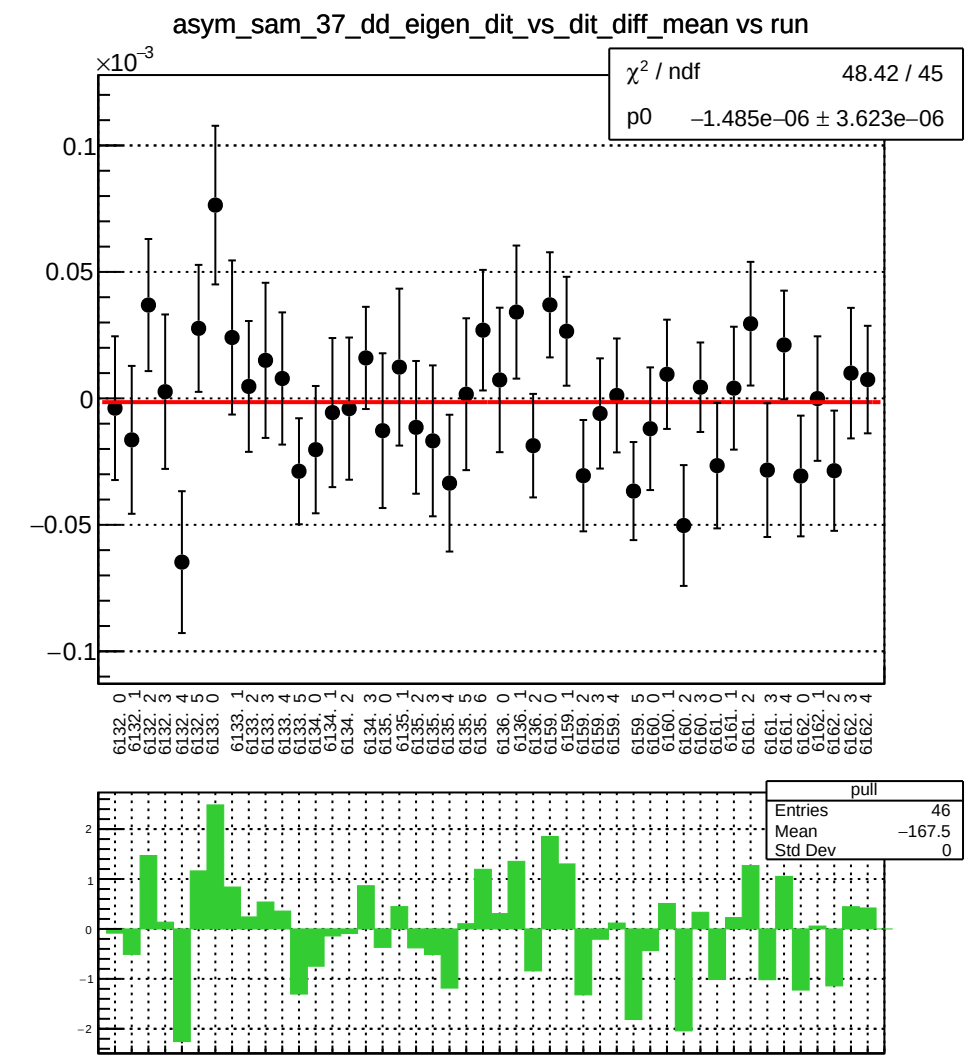

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 56.85 / 45
p0 0.03678 ± 0.03455
pull
Entries 46
Mean 13.89
Std Dev 19.77

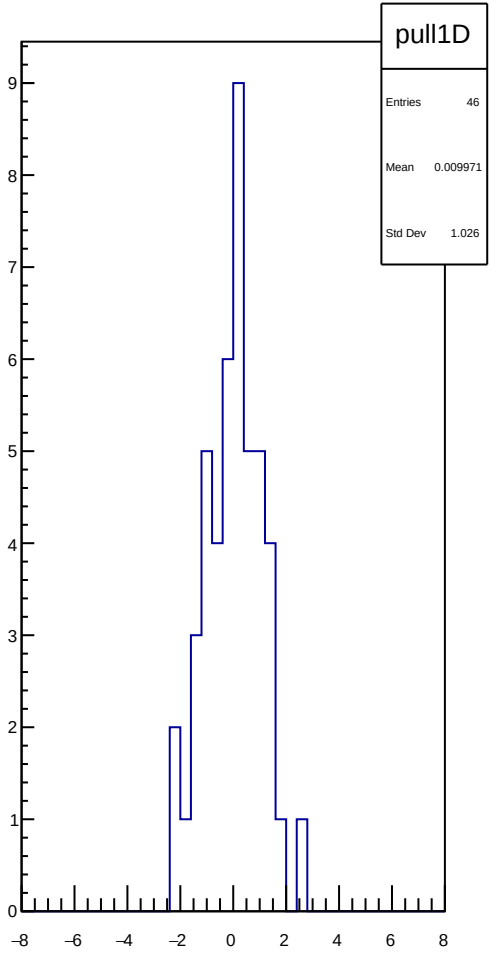

pull1D
Entries 46
Mean −0.05501
Std Dev 1.11

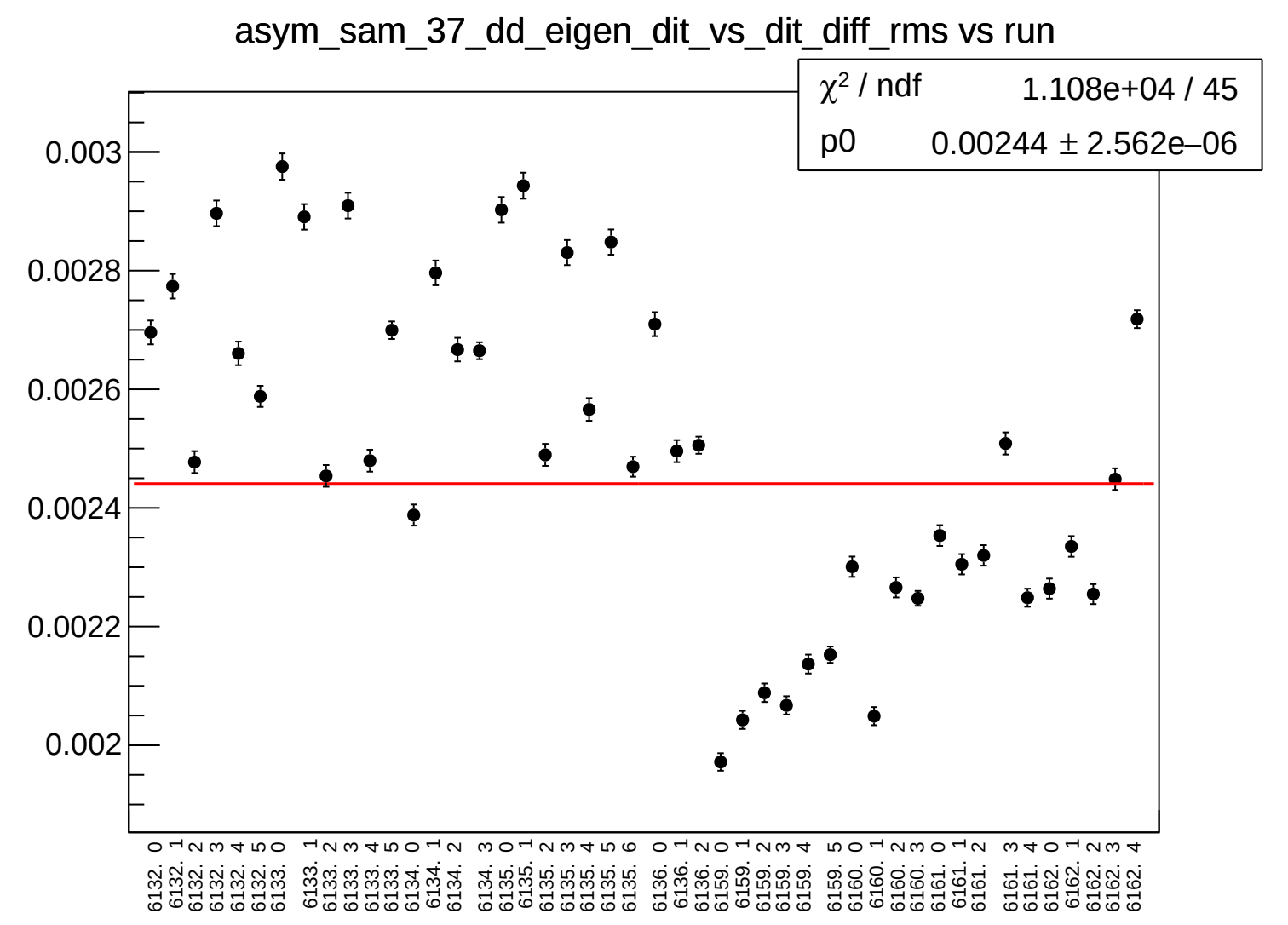

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.409e+05 / 45
p0 21.54 ± 0.02443
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

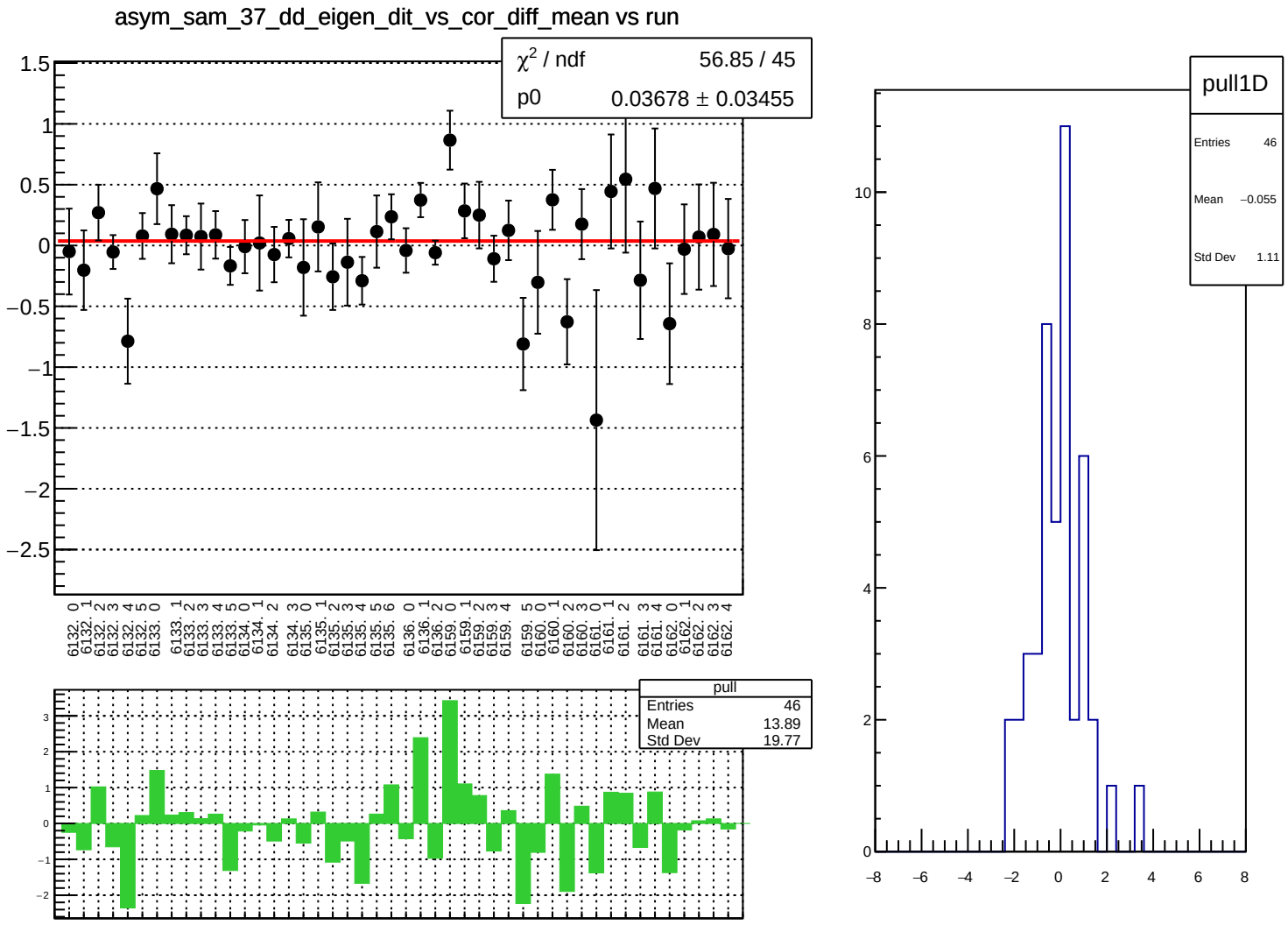

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56.85 / 45
p0 0.03678 ± 0.03455
pull
Entries 46
Mean 13.89
Std Dev 19.77
pull1D
Entries 46
Mean −0.05501
Std Dev 1.11

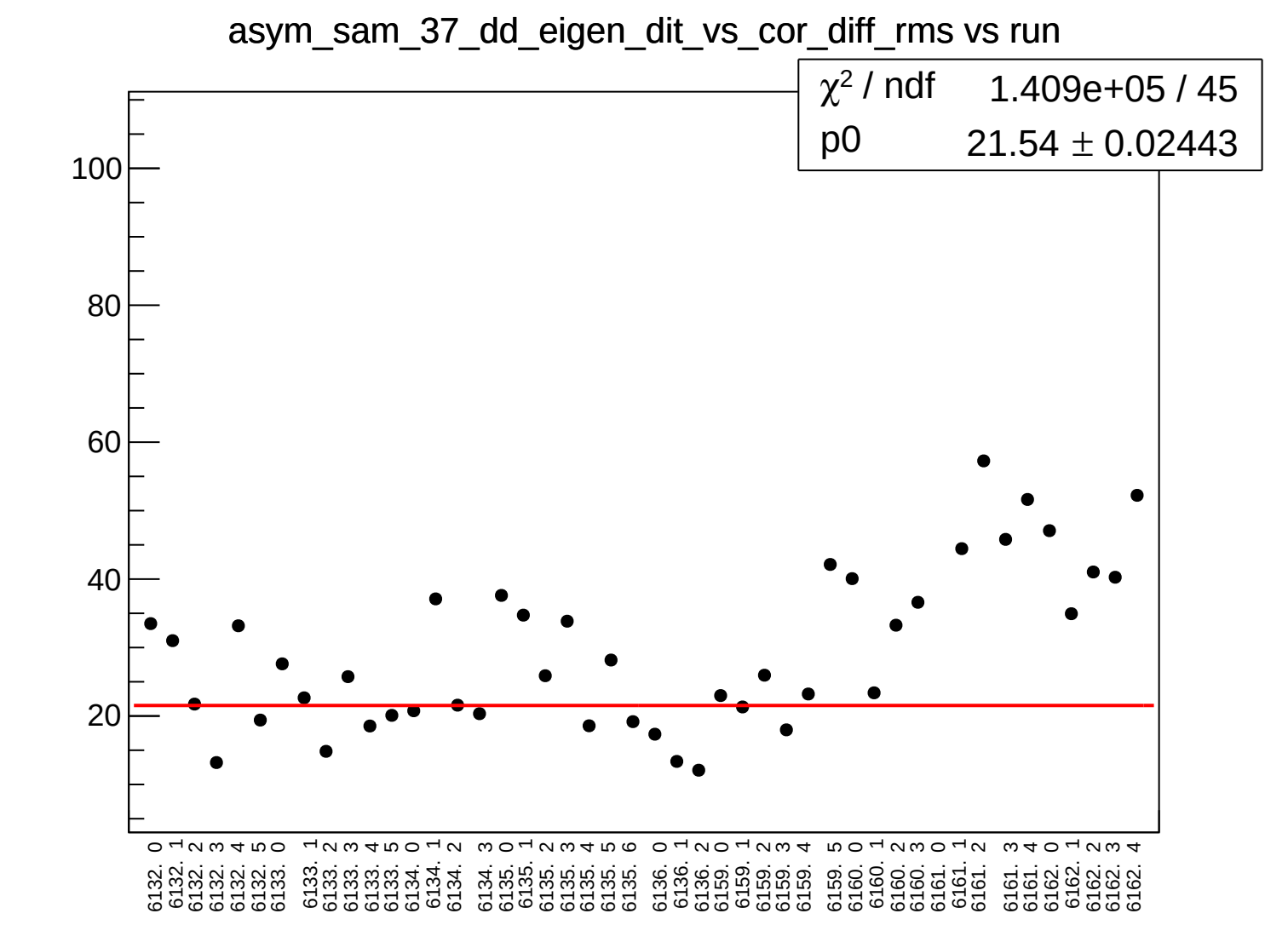

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.409e+05 / 45
p0 21.54 ± 0.02443
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

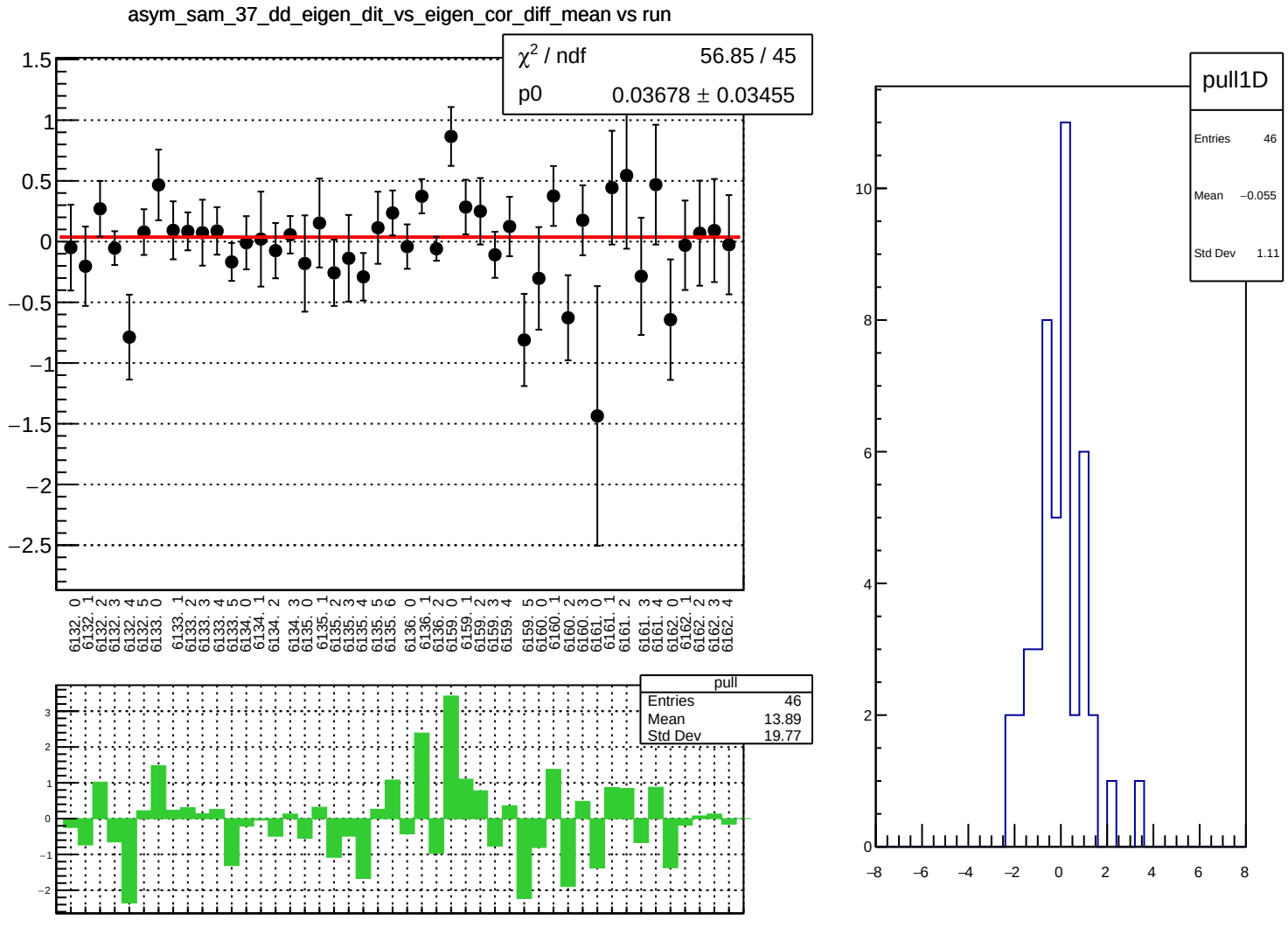

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 48.42 / 45
p0 −1.485e−06 ± 3.623e−06
0.1
0.05
0
−0.05
−0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −167.5
Std Dev 0
2
1
0
−1
−2

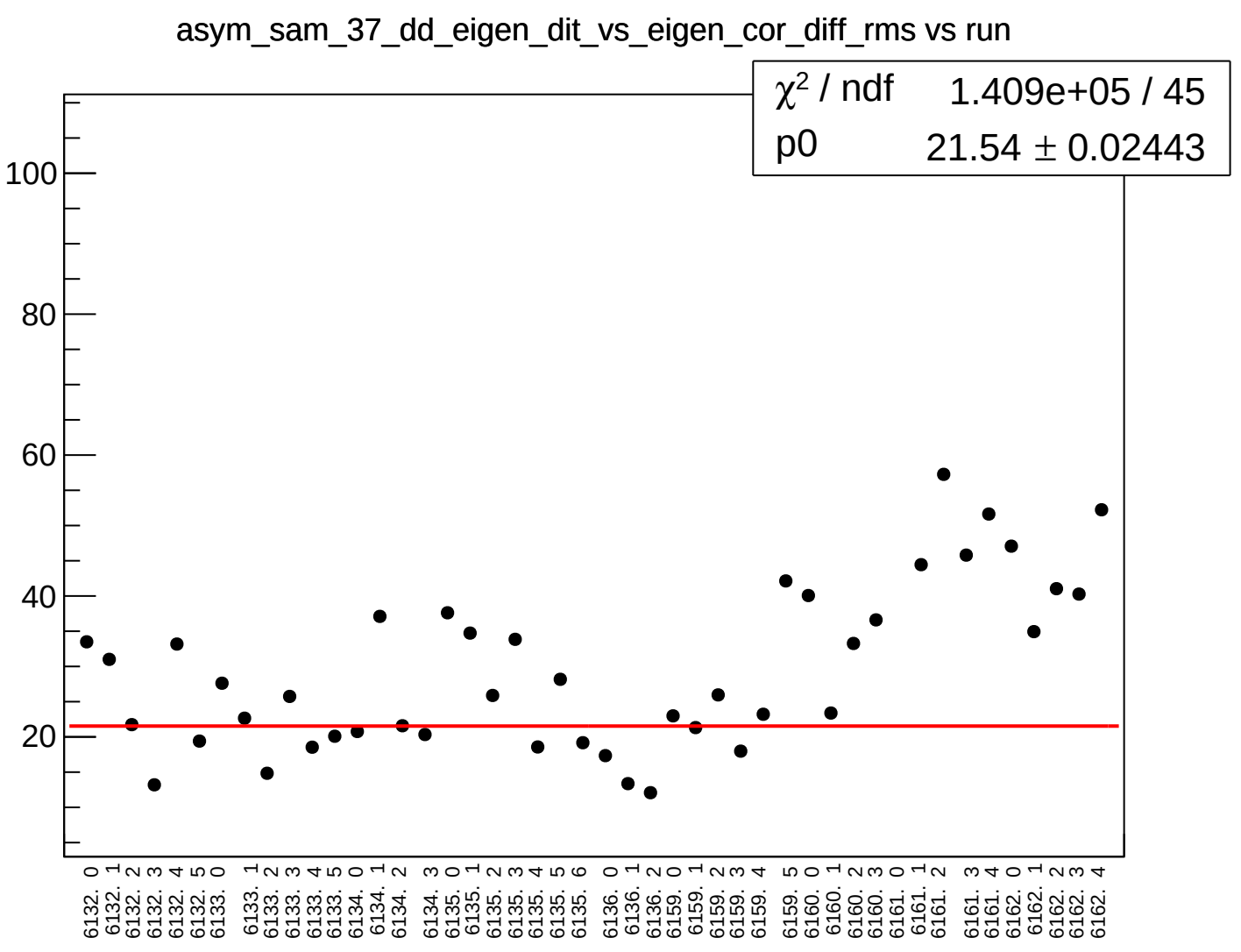

pull1D
Entries 46
Mean 0.009971
Std Dev 1.026
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

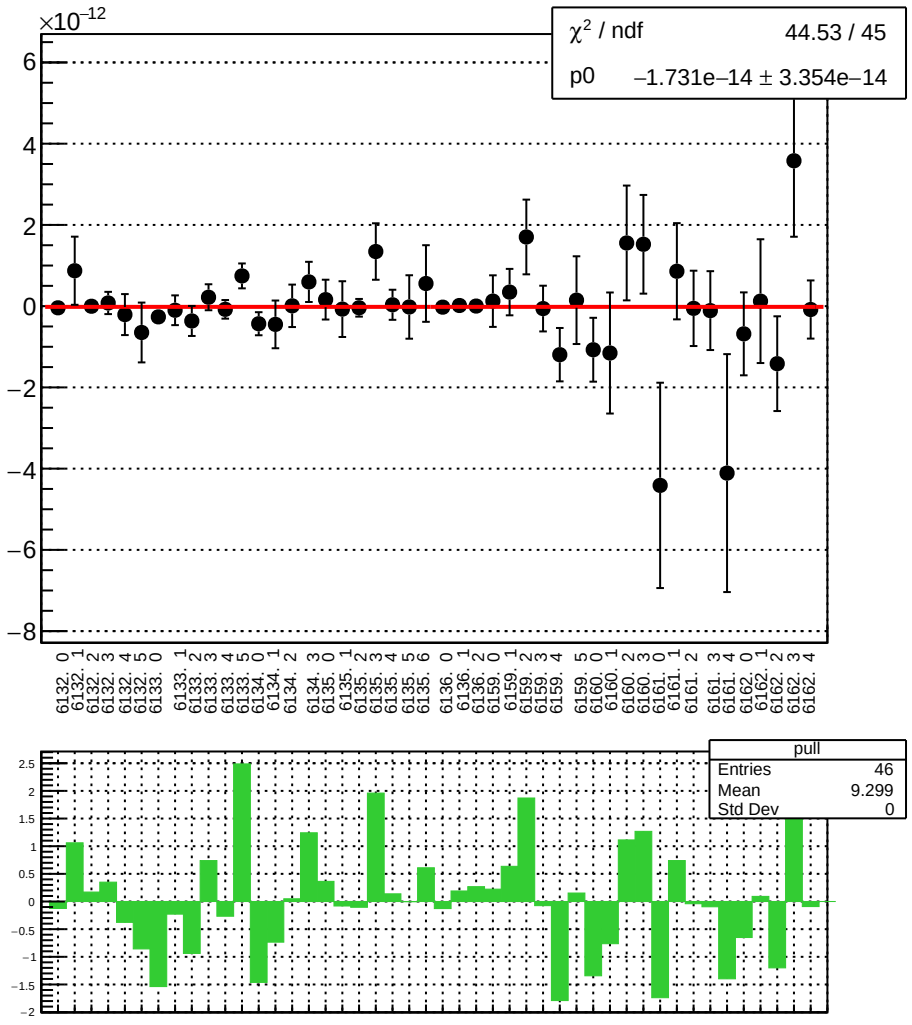

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.108e+04 / 45
p0 0.00244 ± 2.562e–06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

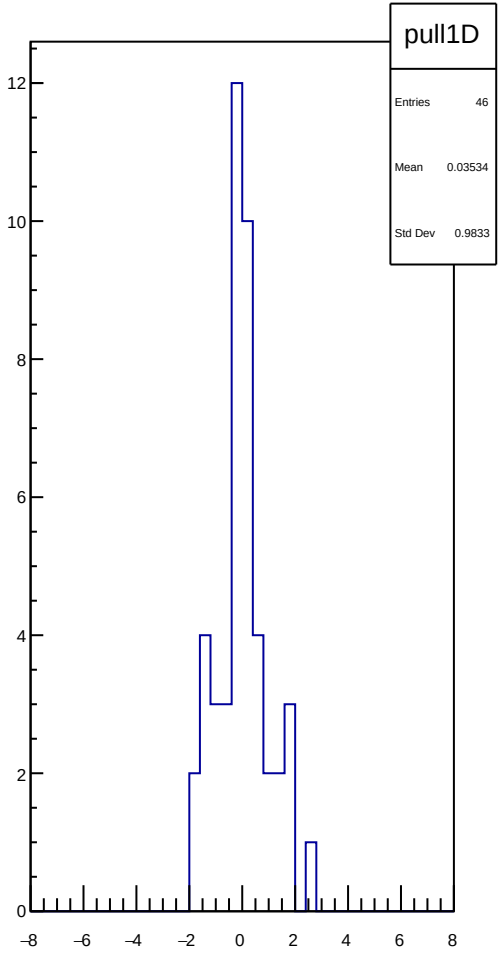

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 56.85 / 45
p0 0.03678 ± 0.03455
pull
Entries 46
Mean 13.89
Std Dev 19.77
pull1D
Entries 46
Mean −0.055
Std Dev 1.11

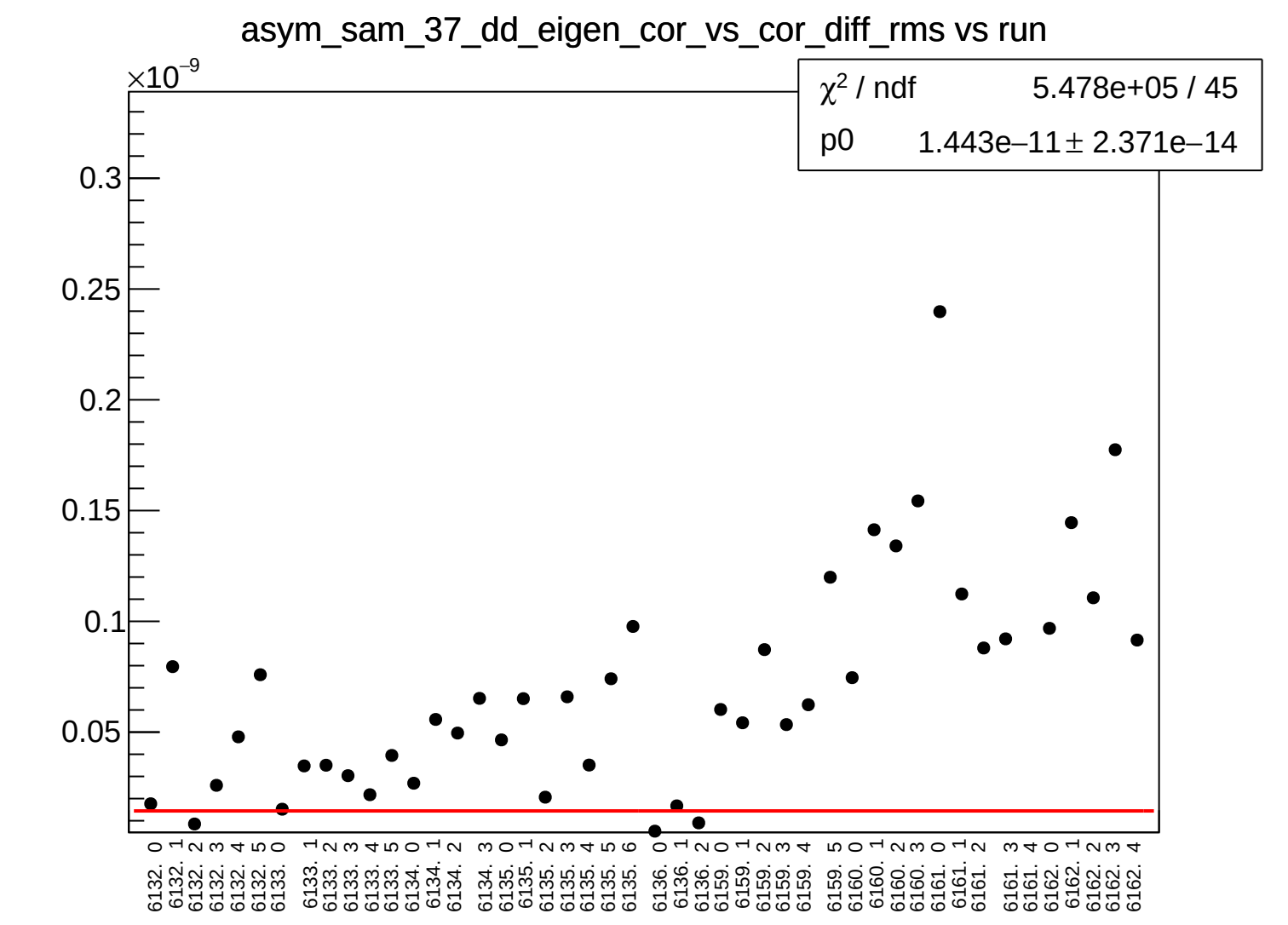

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.409e+05 / 45
p0 21.54 ± 0.02443
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

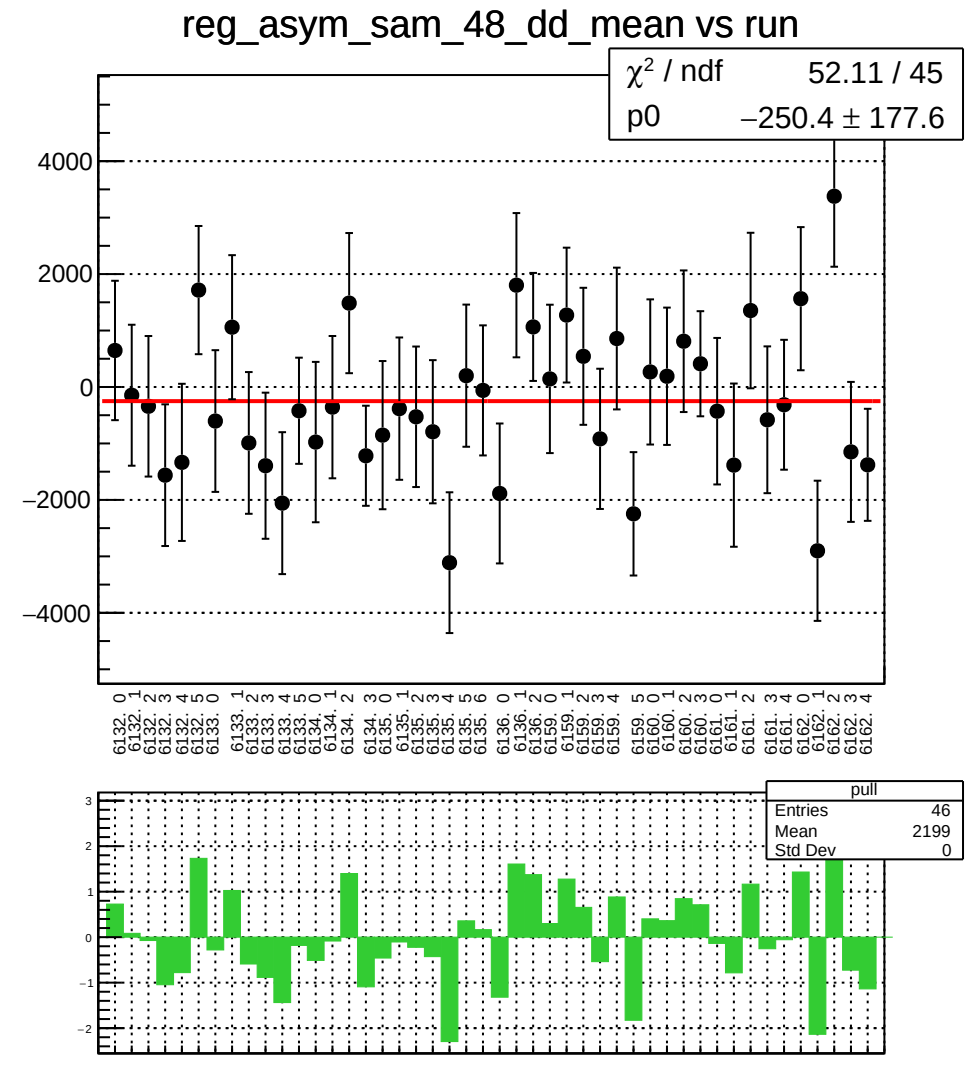

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56.85 / 45
p0 0.03678 ± 0.03455
pull
Entries 46
Mean 13.89
Std Dev 19.77
pull1D
Entries 46
Mean −0.055
Std Dev 1.11

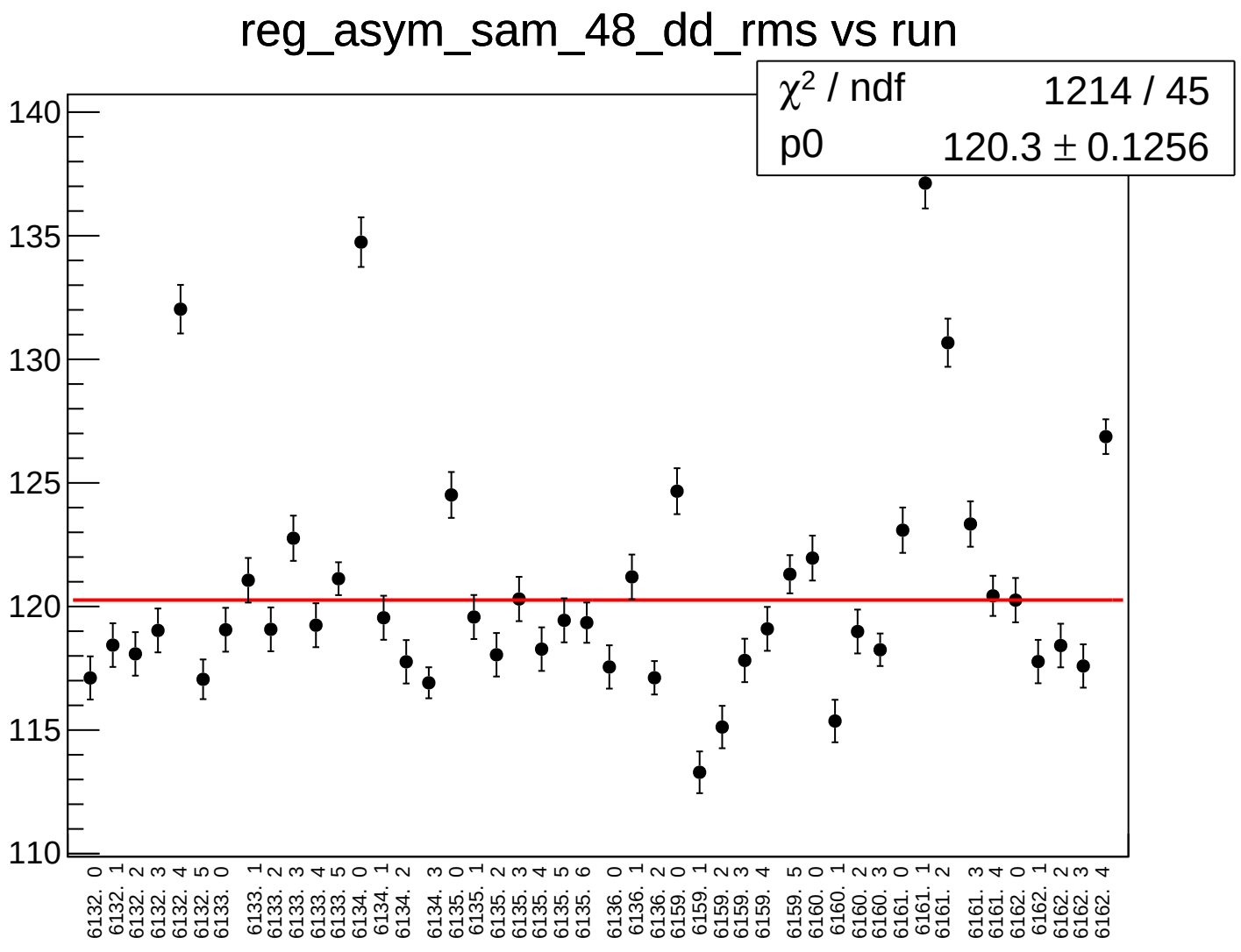

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.409e+05 / 45
p0 21.54 ± 0.02443
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

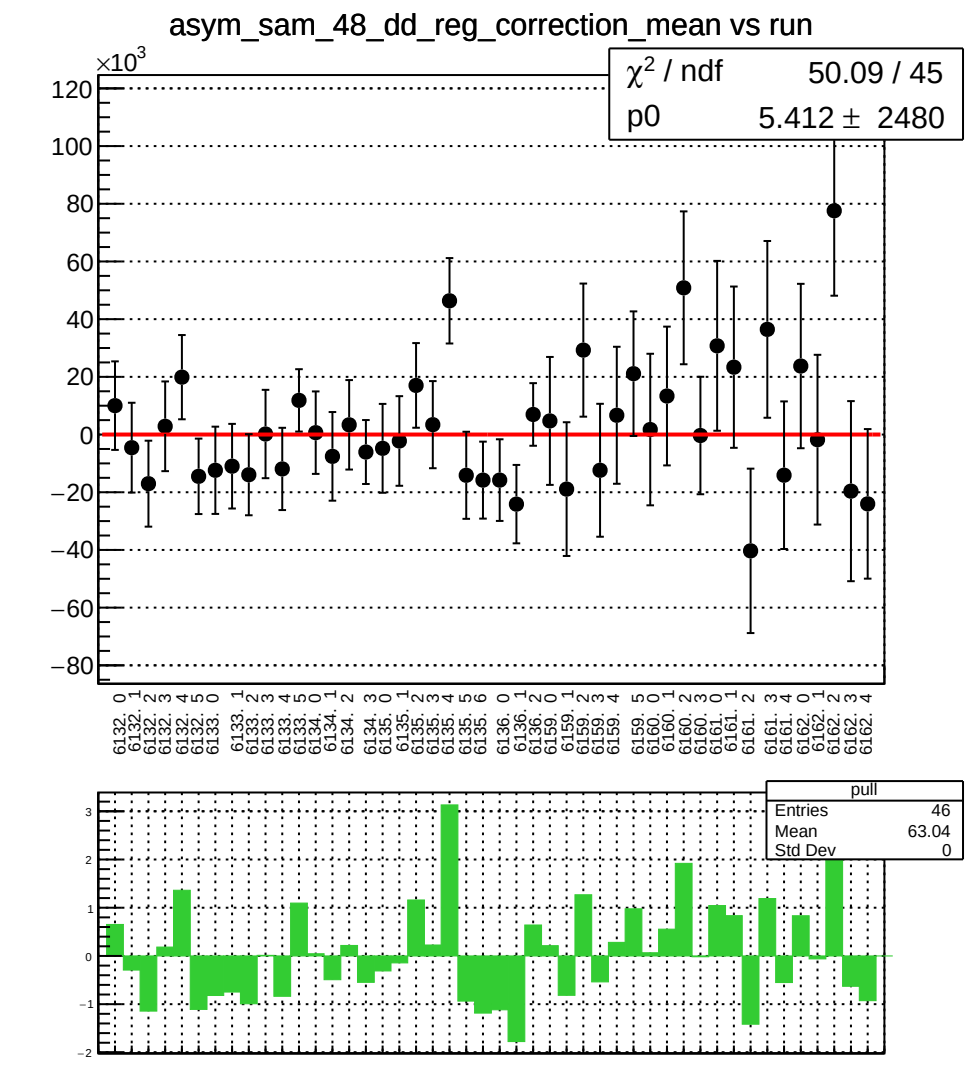

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.53 / 45
p0 −1.731e−14 ± 3.354e−14
pull
Entries 46
Mean 9.299
Std Dev 0

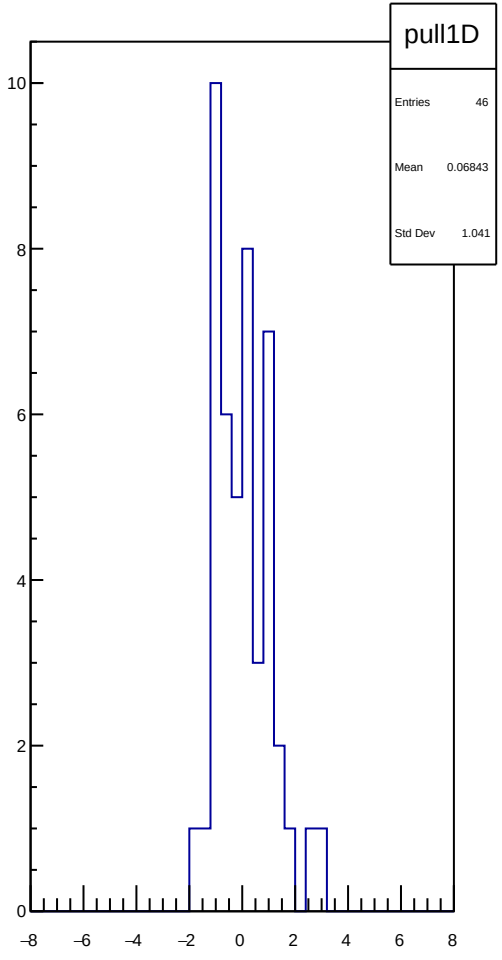

pull1D
Entries 46
Mean 0.03534
Std Dev 0.9833

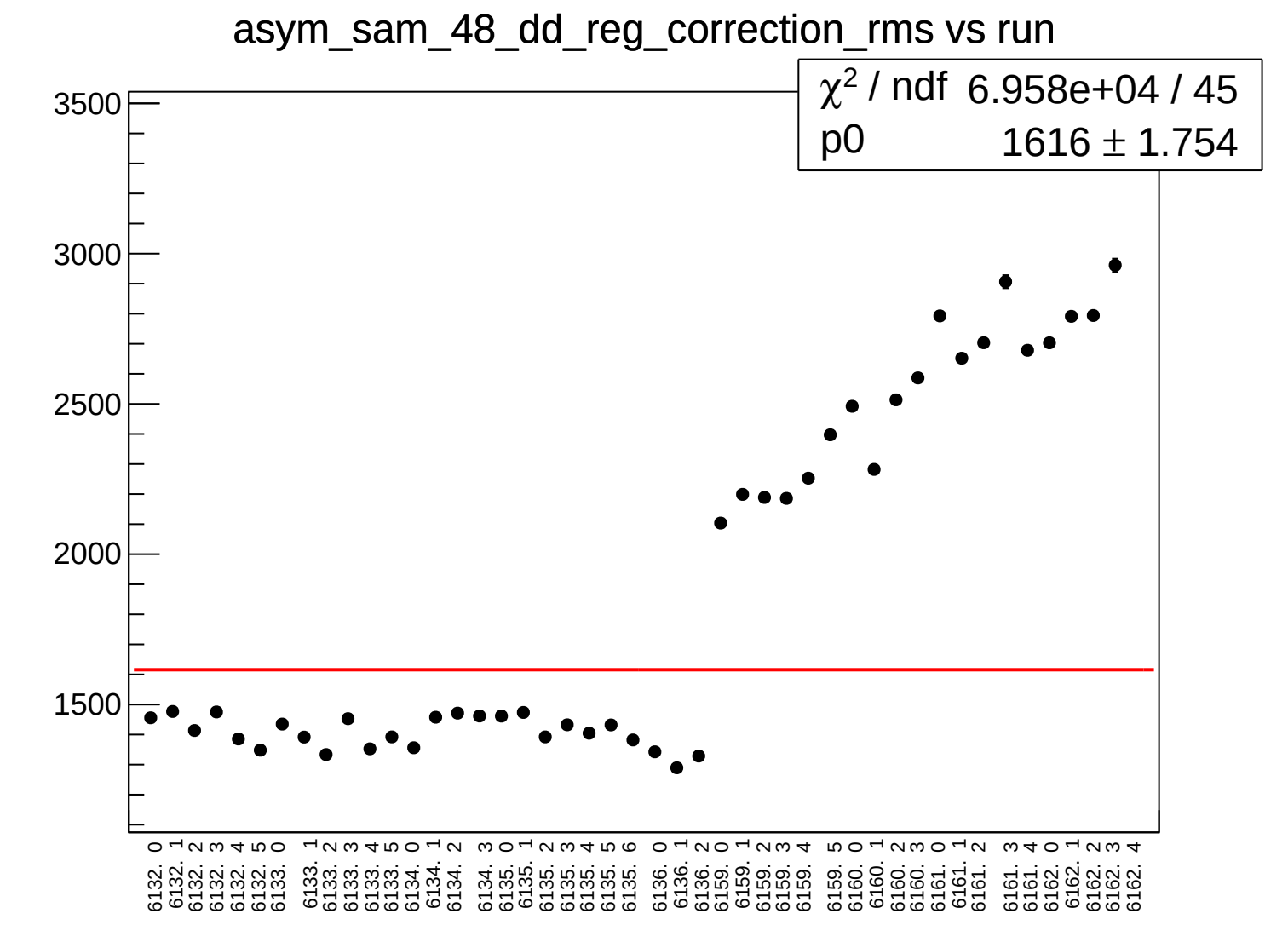

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.478e+05 / 45
p0 1.443e−11 ± 2.371e−14
0.3
0.25
0.2
0.15
0.1
0.05
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

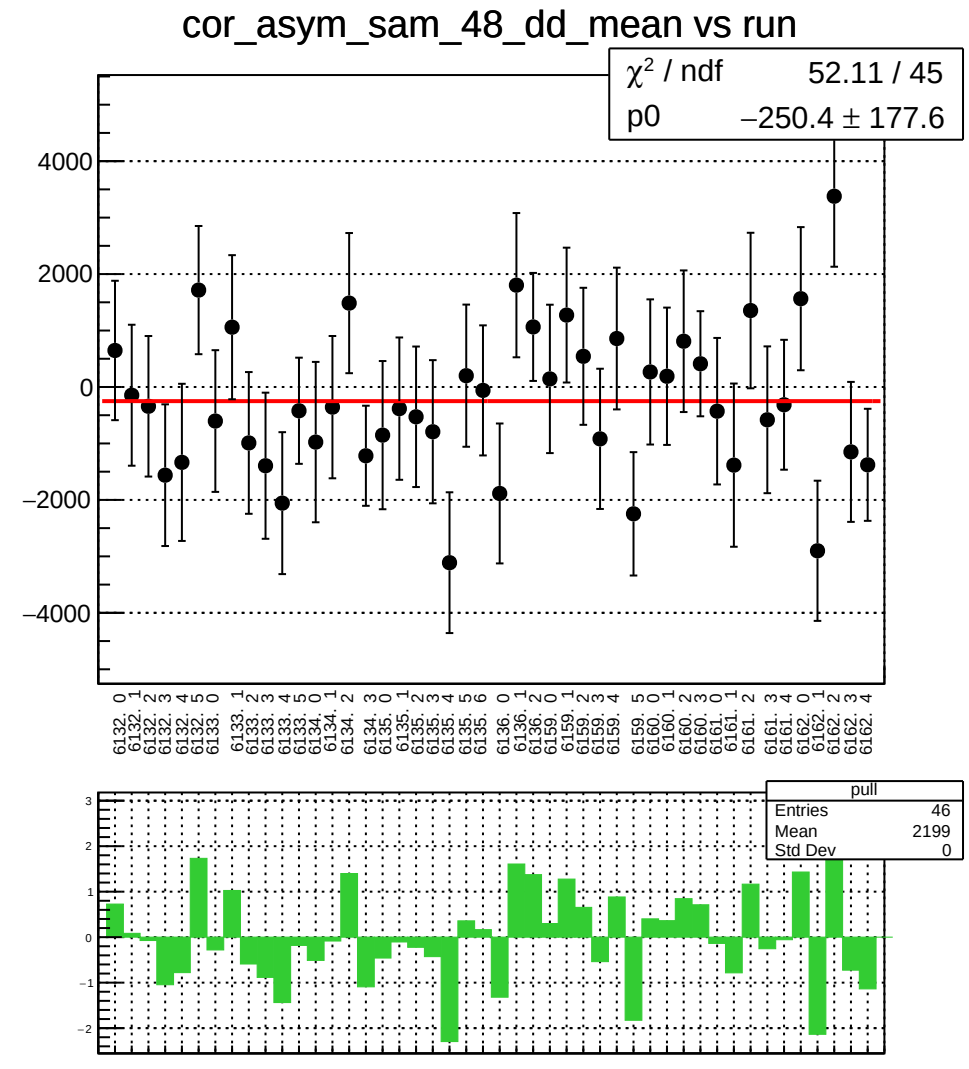

reg_asym_sam_48_dd_mean vs run
χ² / ndf 52.11 / 45
p0 −250.4 ± 177.6
4000
2000
0
−2000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 2199
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.0006305
Std Dev 1.064
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

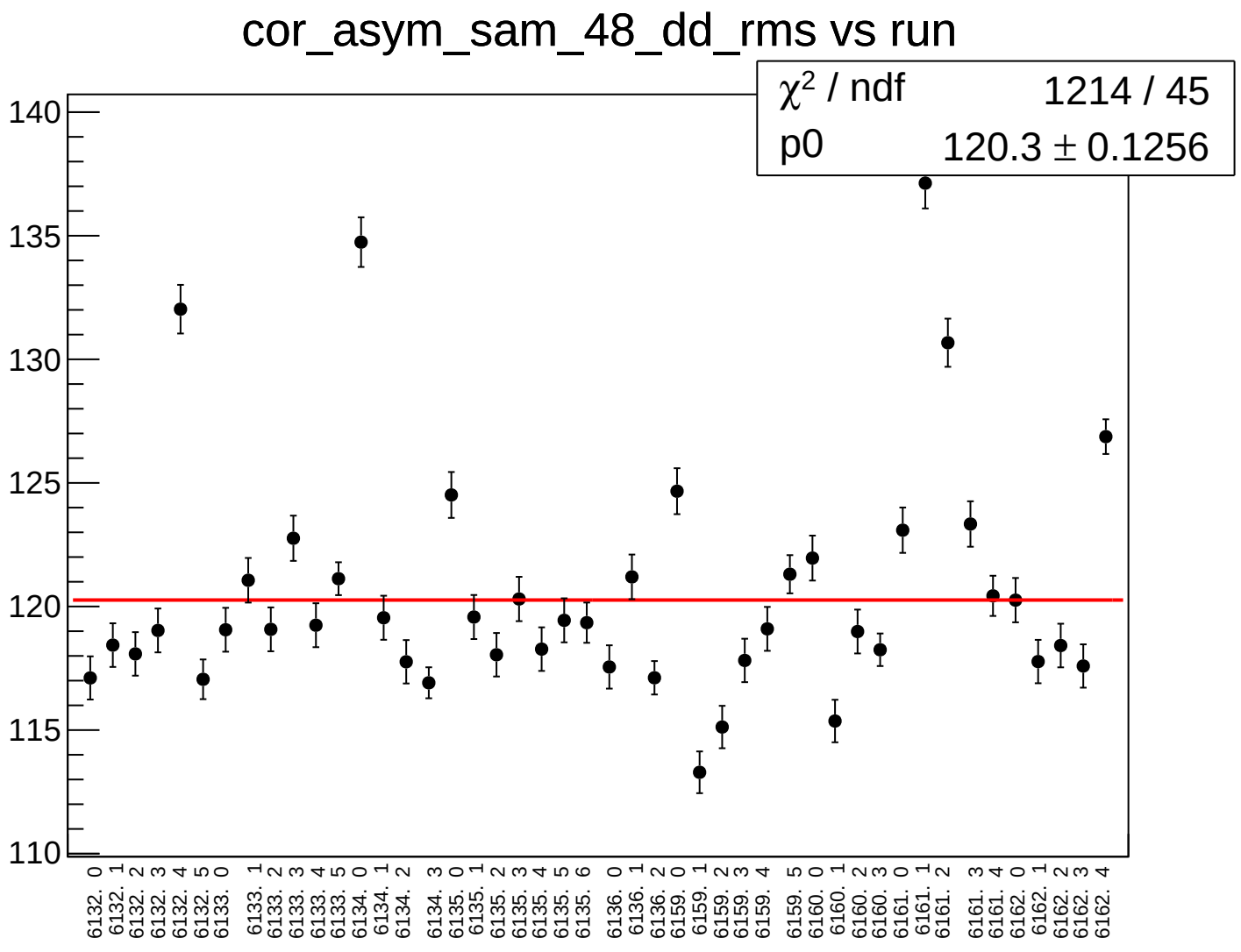

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1214 / 45
p0 120.3 ± 0.1256
140
135
130
125
120
115
110
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_48_dd_reg_correction_mean vs run
×10^3
χ² / ndf 50.09 / 45
p0 5.412 ± 2480
pull
Entries 46
Mean 63.04
Std Dev 0


pull1D
Entries 46
Mean 0.06843
Std Dev 1.041


asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 6.958e+04 / 45
p0 1616 ± 1.754
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_sam_48_dd_mean vs run
χ² / ndf 52.11 / 45
p0 −250.4 ± 177.6
4000
2000
0
−2000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 2199
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.0006306
Std Dev 1.064
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_48_dd_rms vs run
χ² / ndf 1214 / 45
p0 120.3 ± 0.1256
140
135
130
125
120
115
110
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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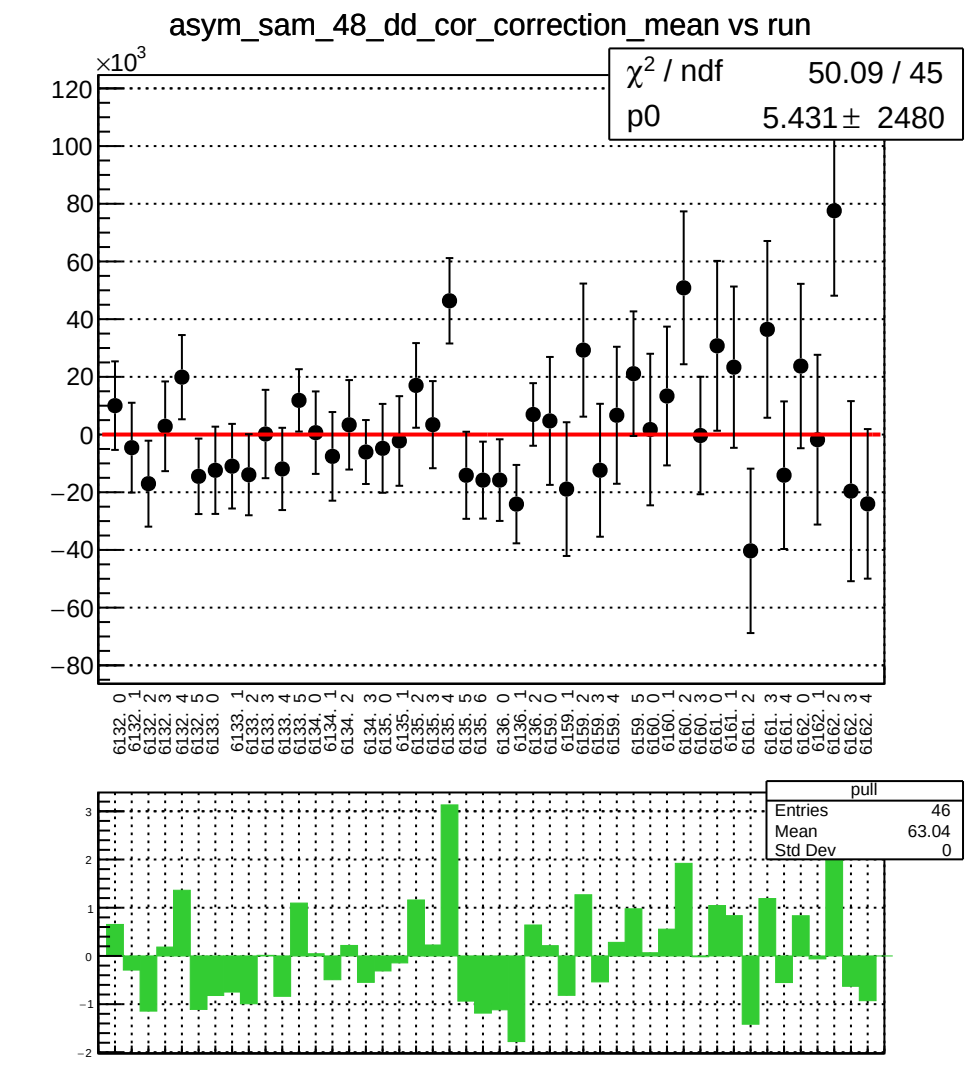
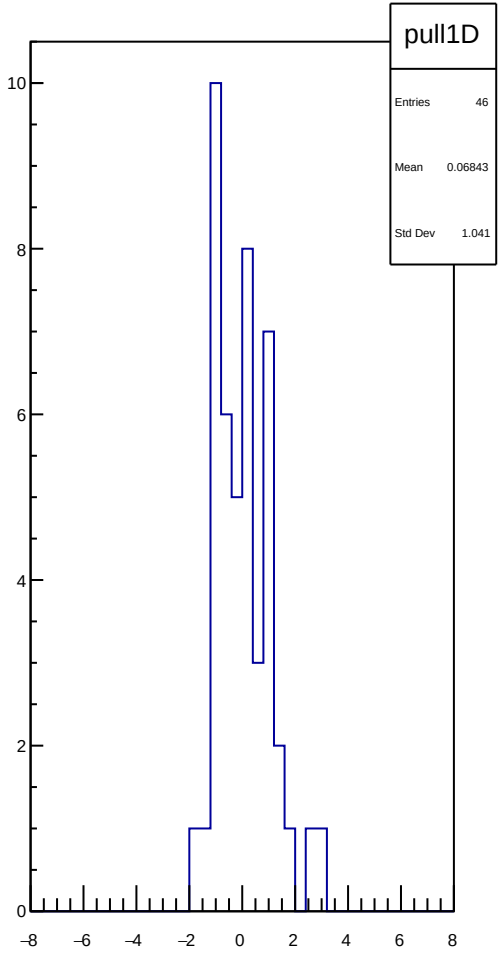
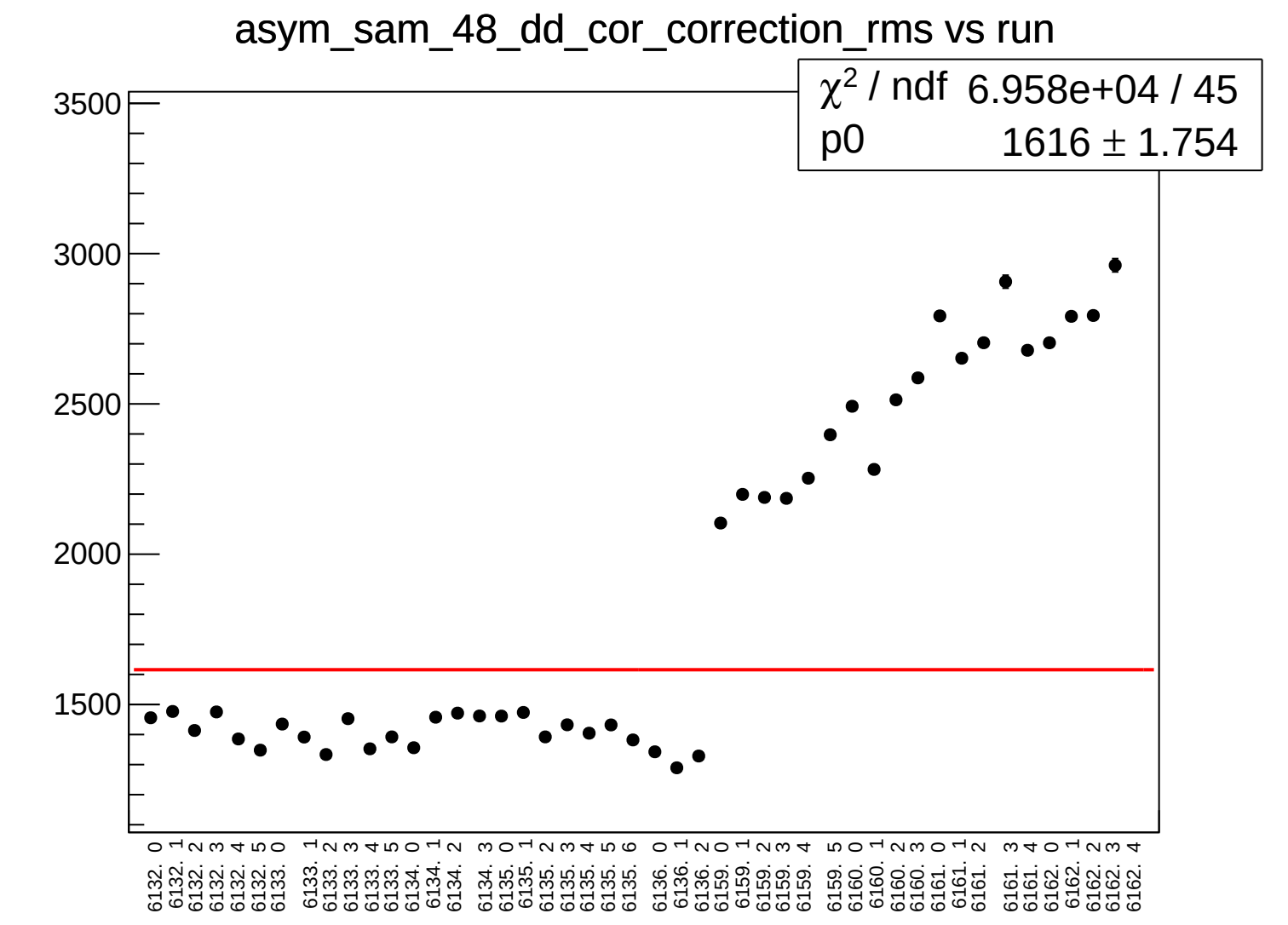
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_48_dd_cor_correction_mean vs run
×10^3
χ² / ndf 50.09 / 45
p0 5.431 ± 2480
pull
Entries 46
Mean 63.04
Std Dev 0


pull1D
Entries 46
Mean 0.06843
Std Dev 1.041


asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 6.958e+04 / 45
p0 1616 ± 1.754
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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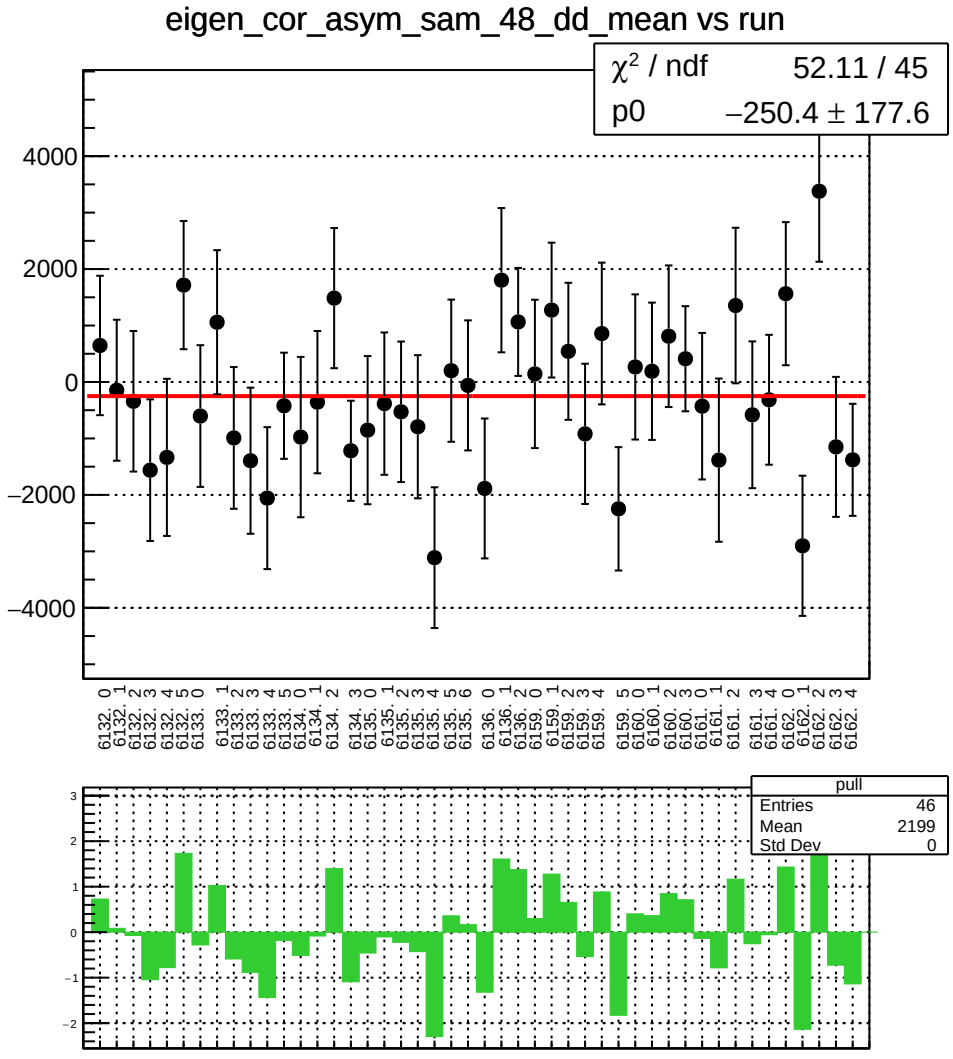
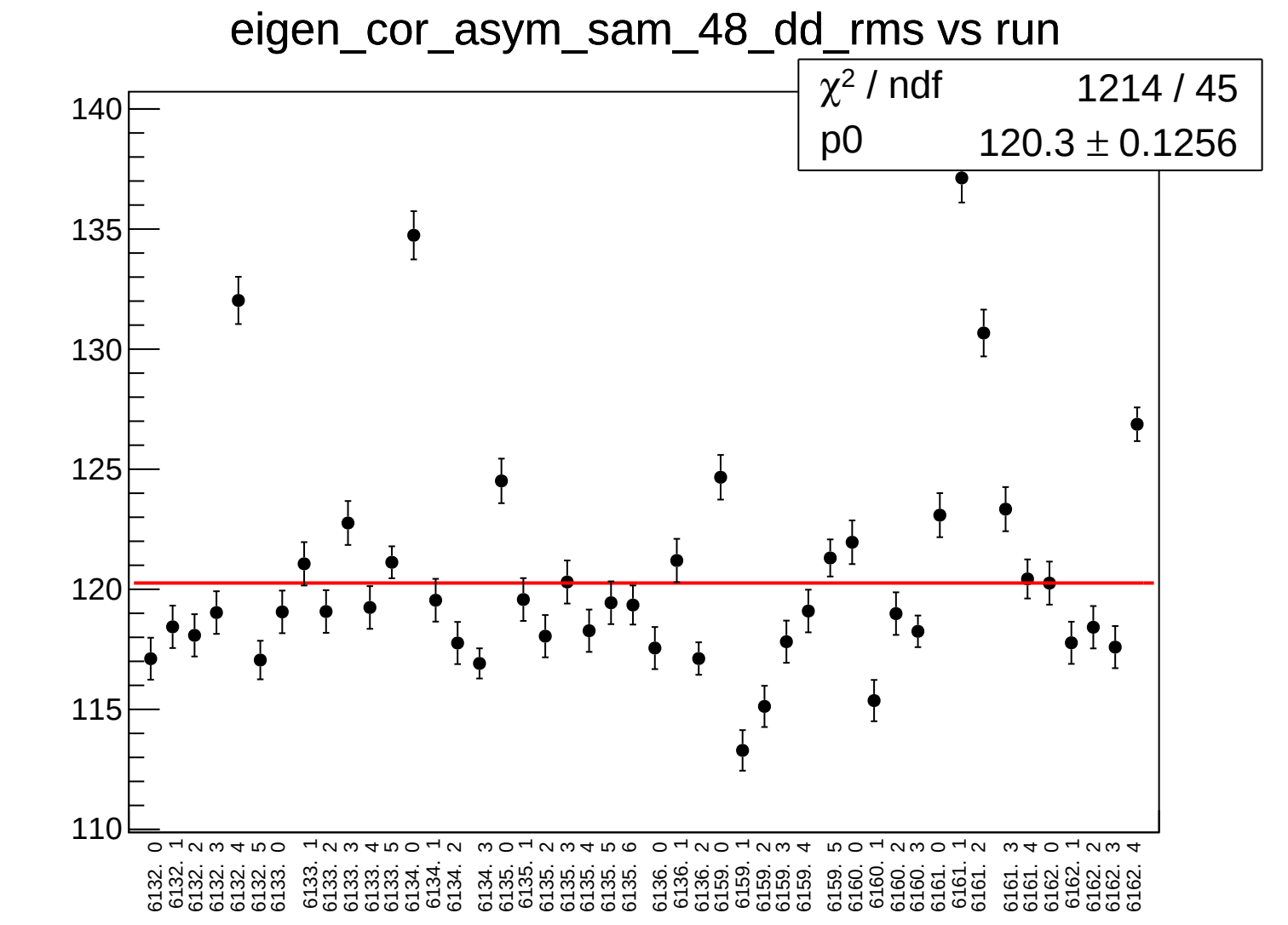
6162. 3
6162. 4


eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 52.11 / 45
p0 −250.4 ± 177.6
4000
2000
0
−2000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 2199
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.0006306
Std Dev 1.064
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 1214 / 45
p0 120.3 ± 0.1256
140
135
130
125
120
115
110
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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6161. 4
6162. 0
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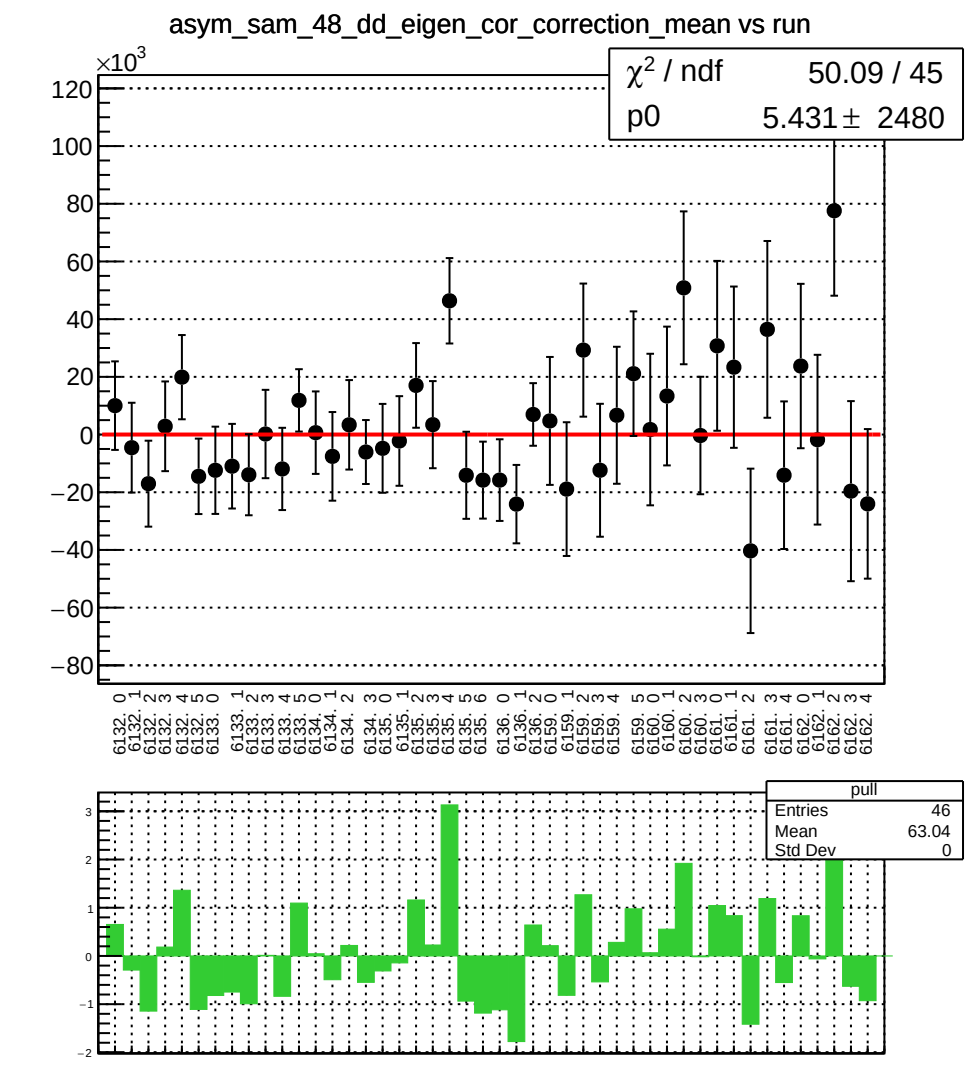
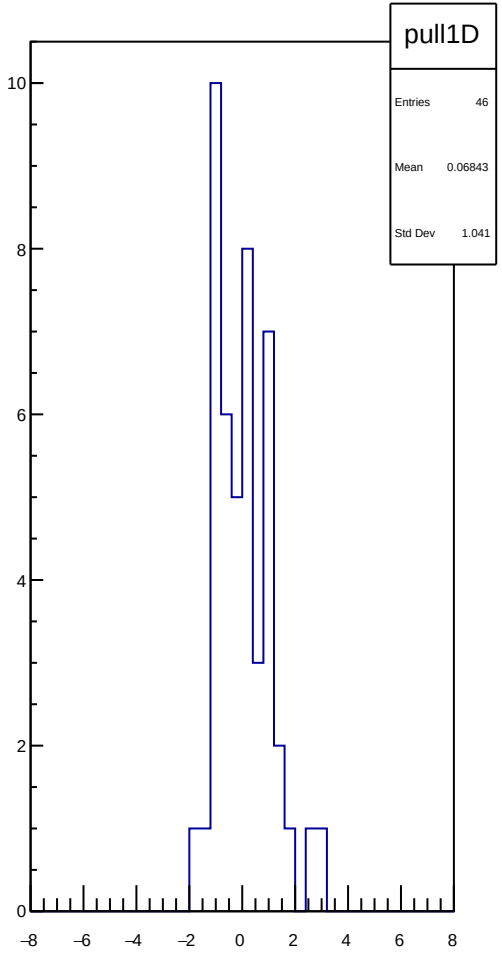
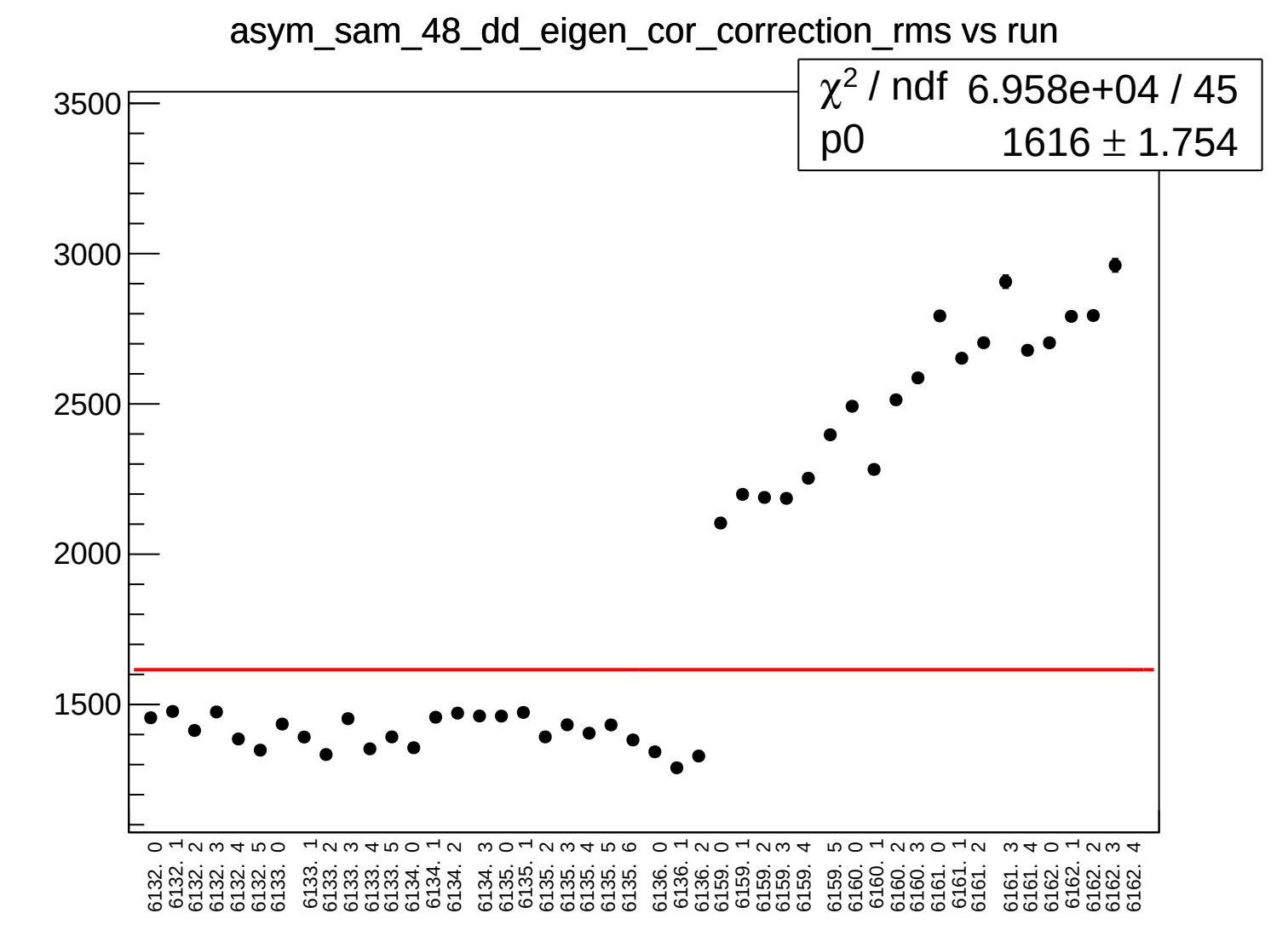
6162. 3
6162. 4


asym_sam_48_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 50.09 / 45
p0 5.431 ± 2480
pull
Entries 46
Mean 63.04
Std Dev 0


pull1D
Entries 46
Mean 0.06843
Std Dev 1.041


asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.958e+04 / 45
p0 1616 ± 1.754
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
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6160. 1
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6161. 2
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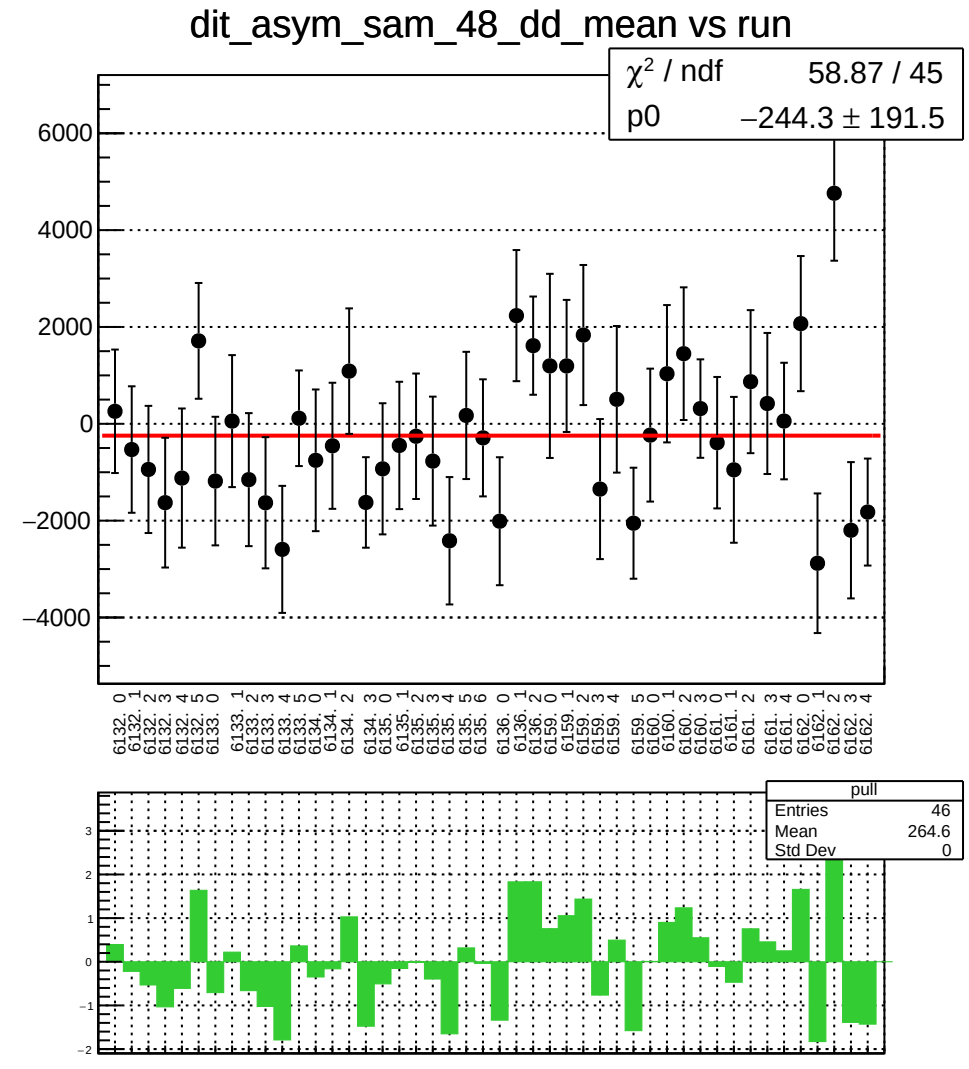
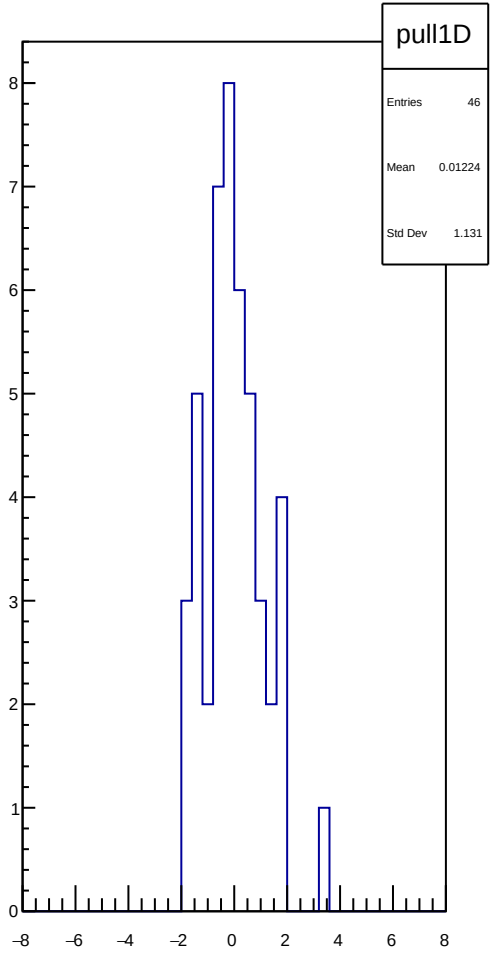
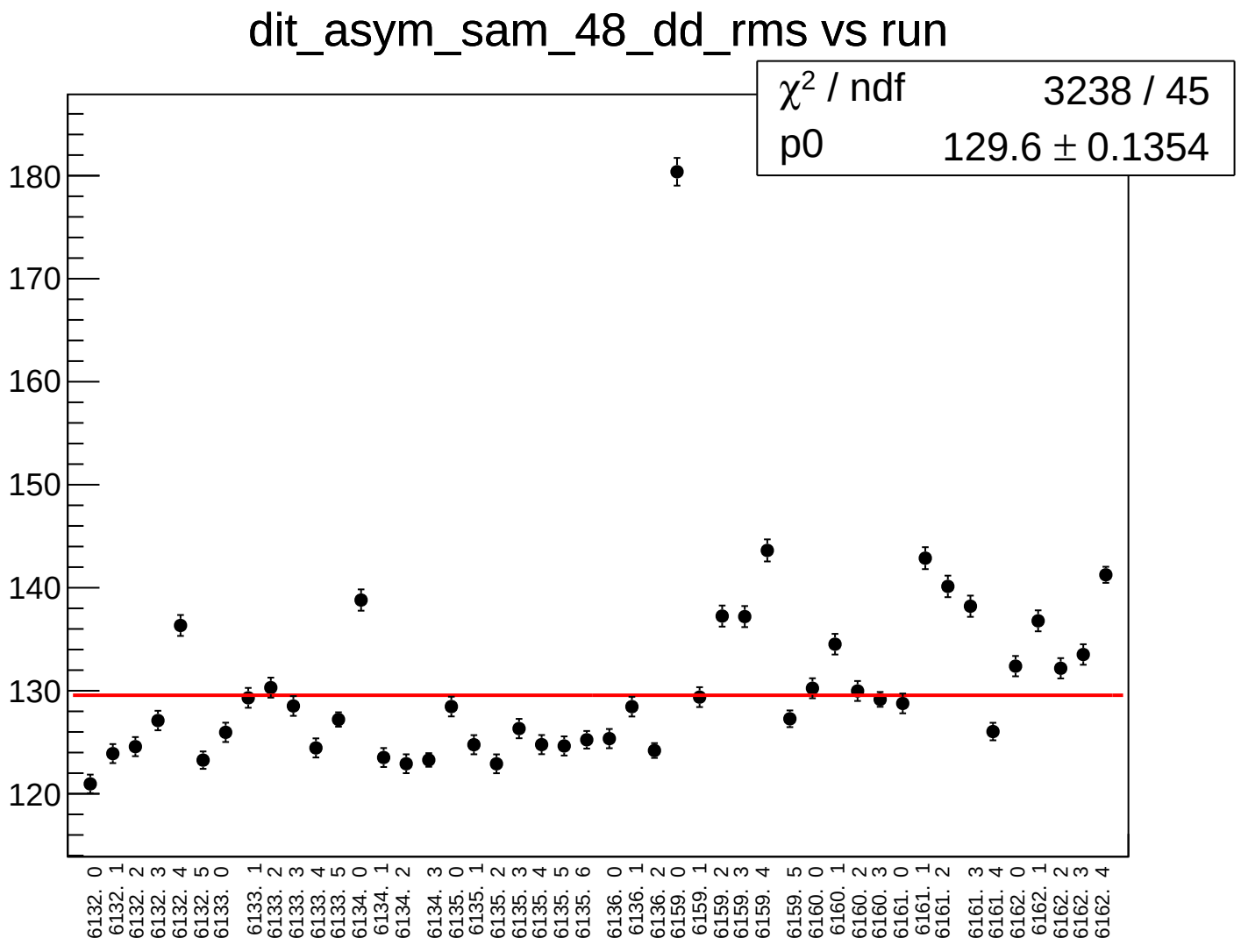
6162. 4


dit_asym_sam_48_dd_mean vs run
χ² / ndf 58.87 / 45
p0 −244.3 ± 191.5
6000
4000
2000
0
−2000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 264.6
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.01224
Std Dev 1.131
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_48_dd_rms vs run
χ² / ndf 3238 / 45
p0 129.6 ± 0.1354
180
170
160
150
140
130
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
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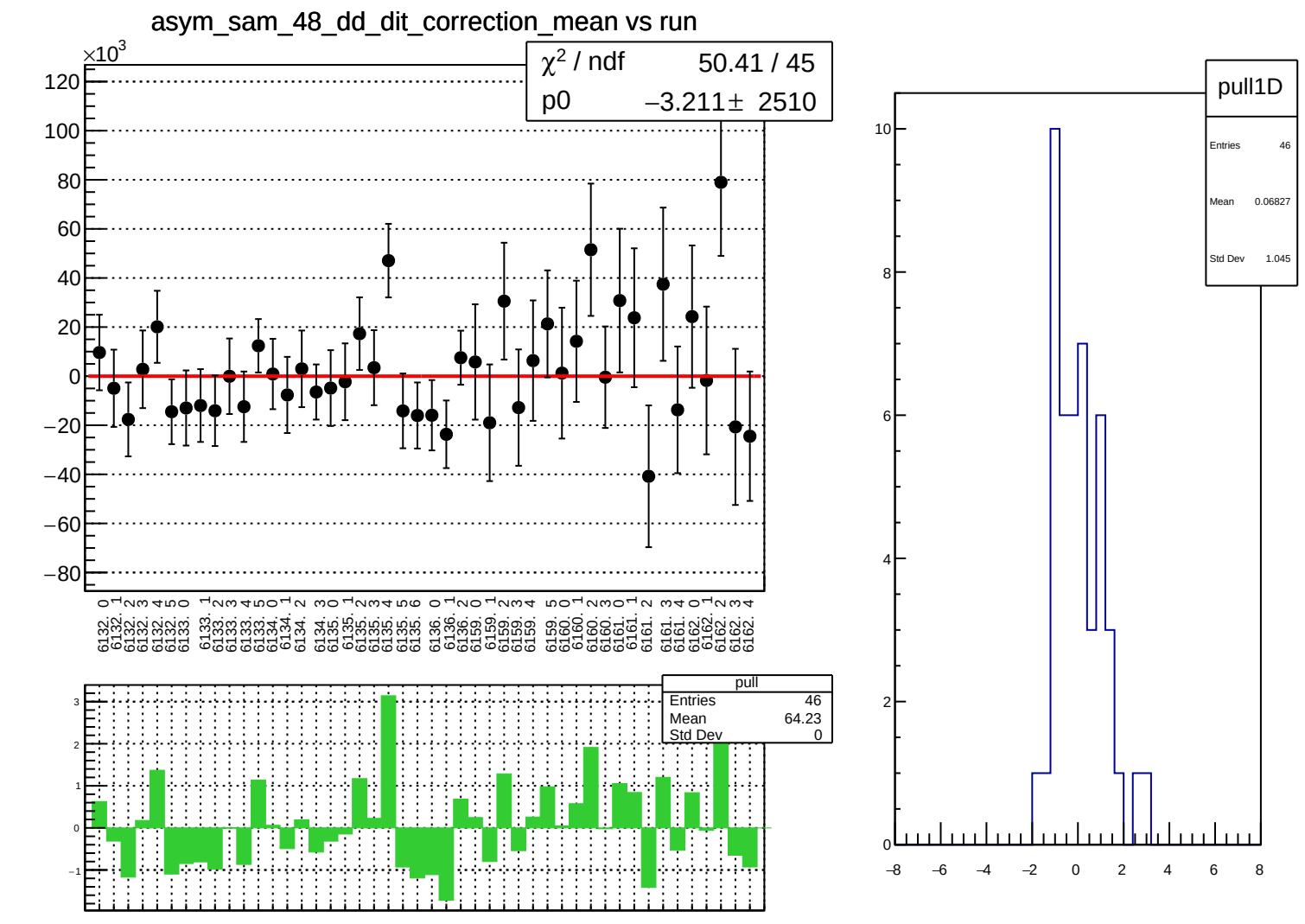
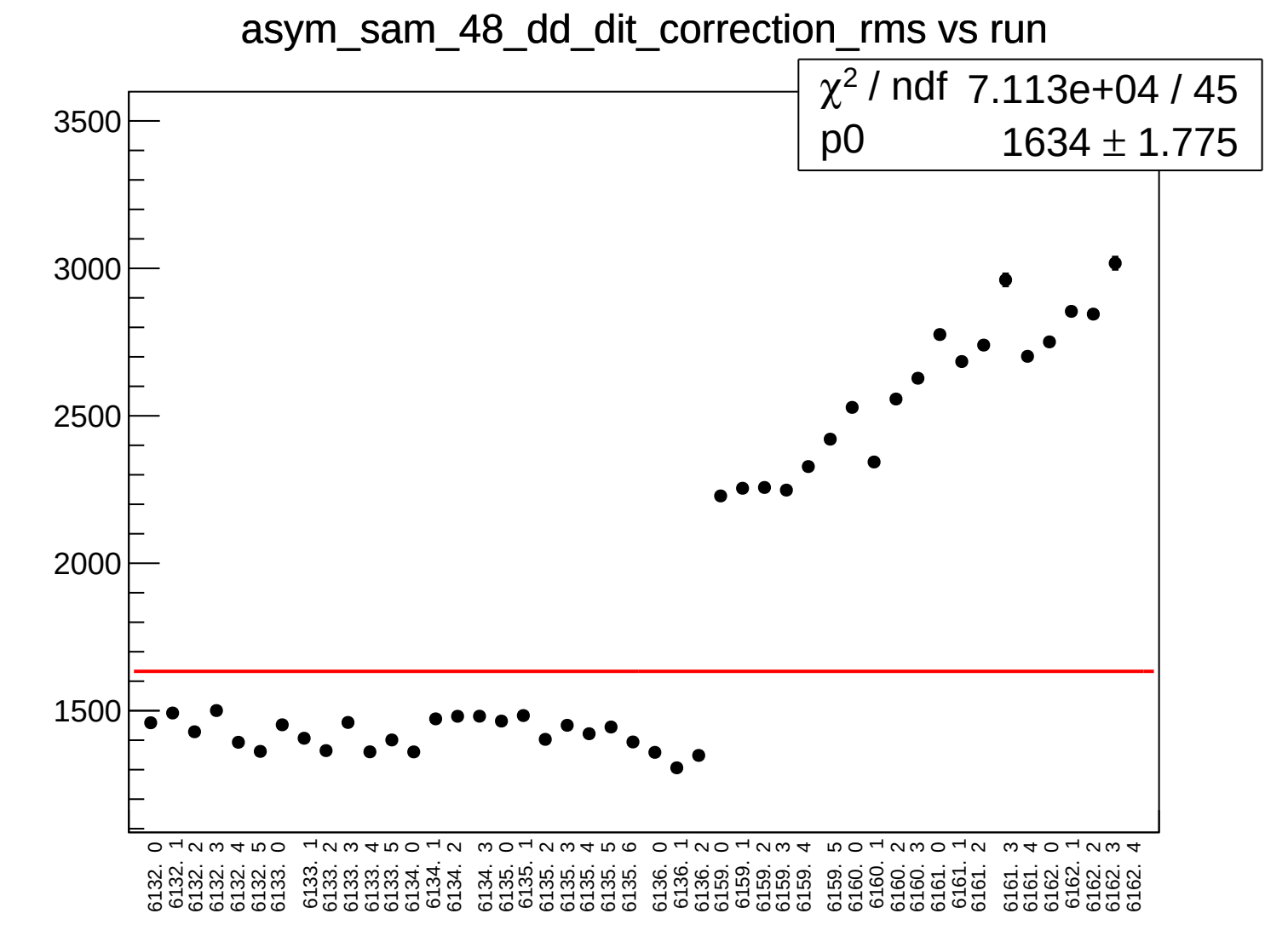
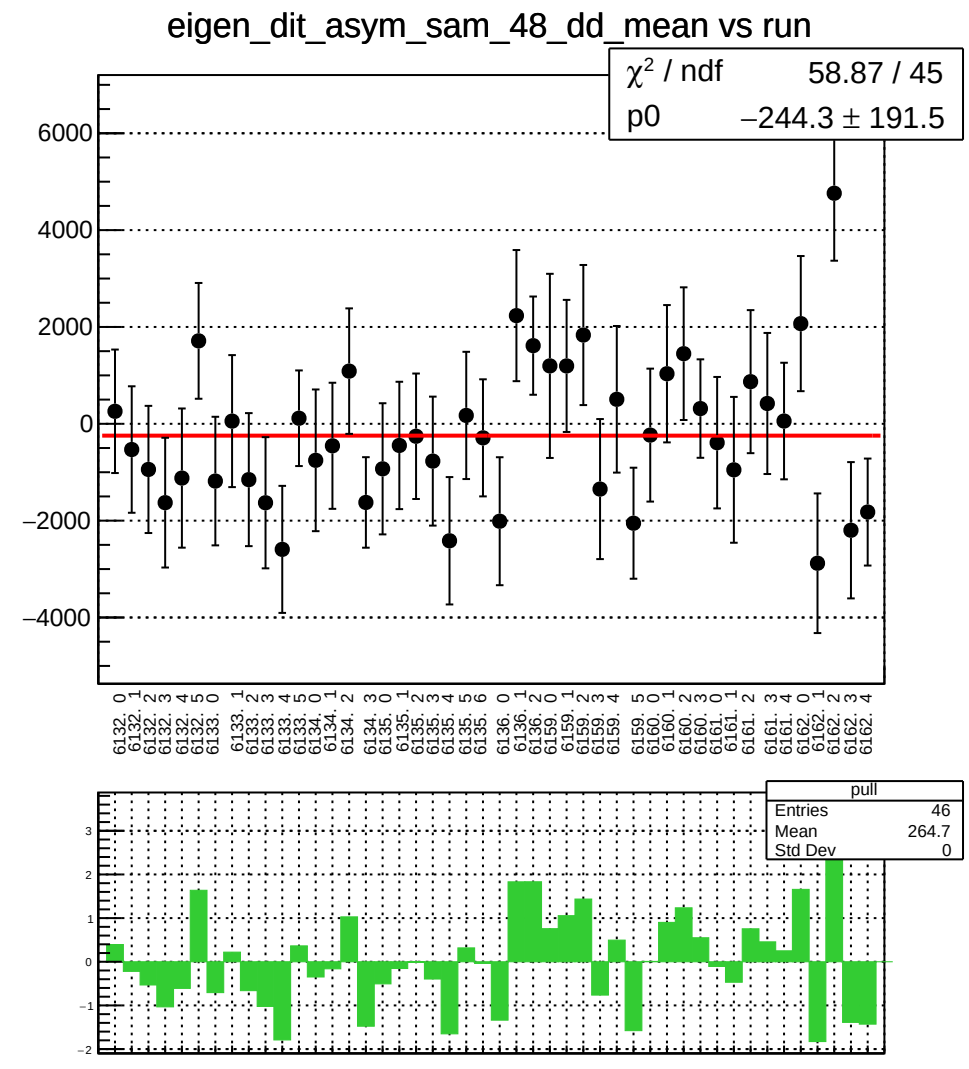
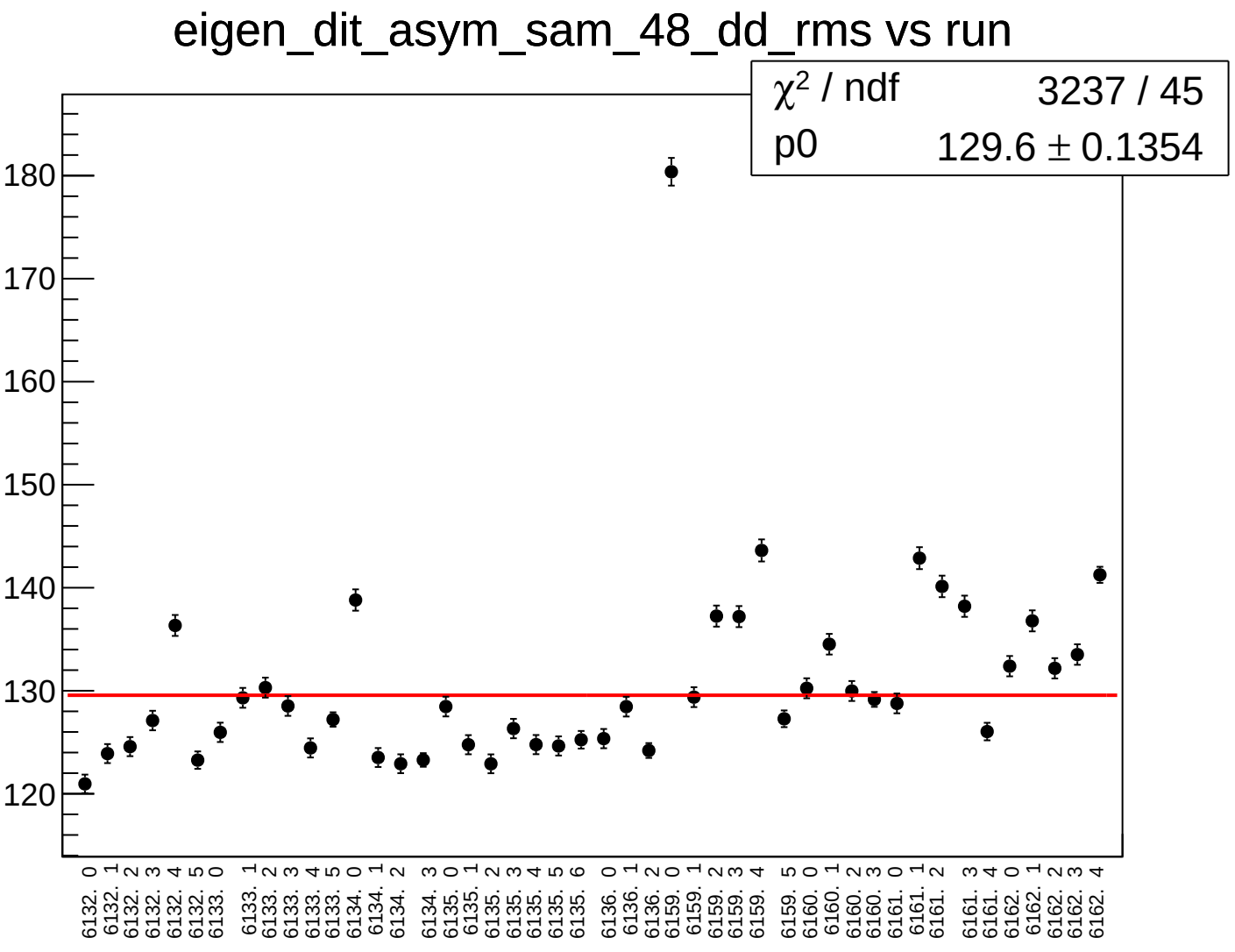
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_48_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 50.41 / 45
p0 −3.211± 2510
pull
Entries 46
Mean 64.23
Std Dev 0
pull1D
Entries 46
Mean 0.06827
Std Dev 1.045


asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 7.113e+04 / 45
p0 1634 ± 1.775
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 58.87 / 45
p0 −244.3 ± 191.5
6000
4000
2000
0
−2000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 264.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.01224
Std Dev 1.131
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 3237 / 45
p0 129.6 ± 0.1354
180
170
160
150
140
130
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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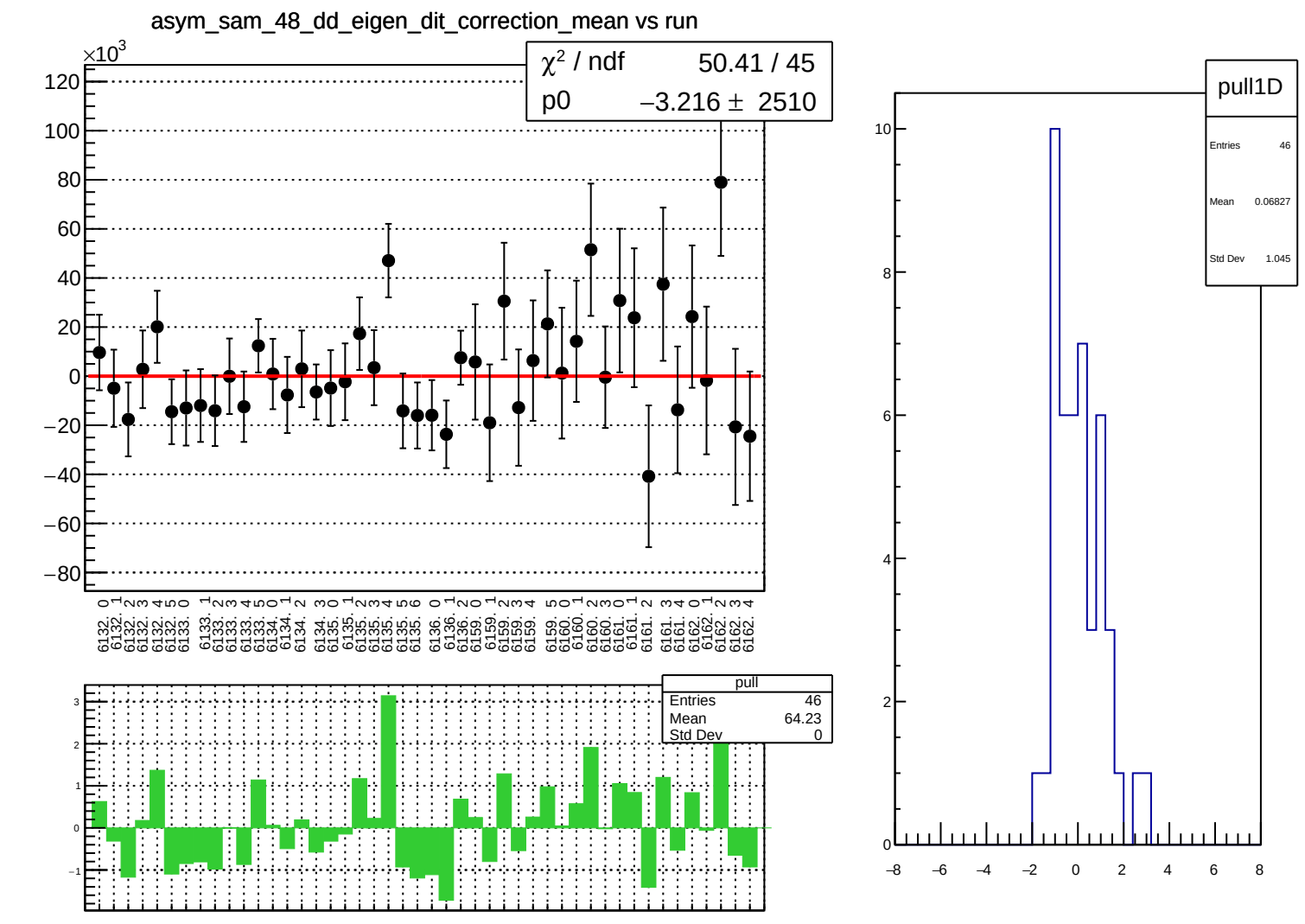
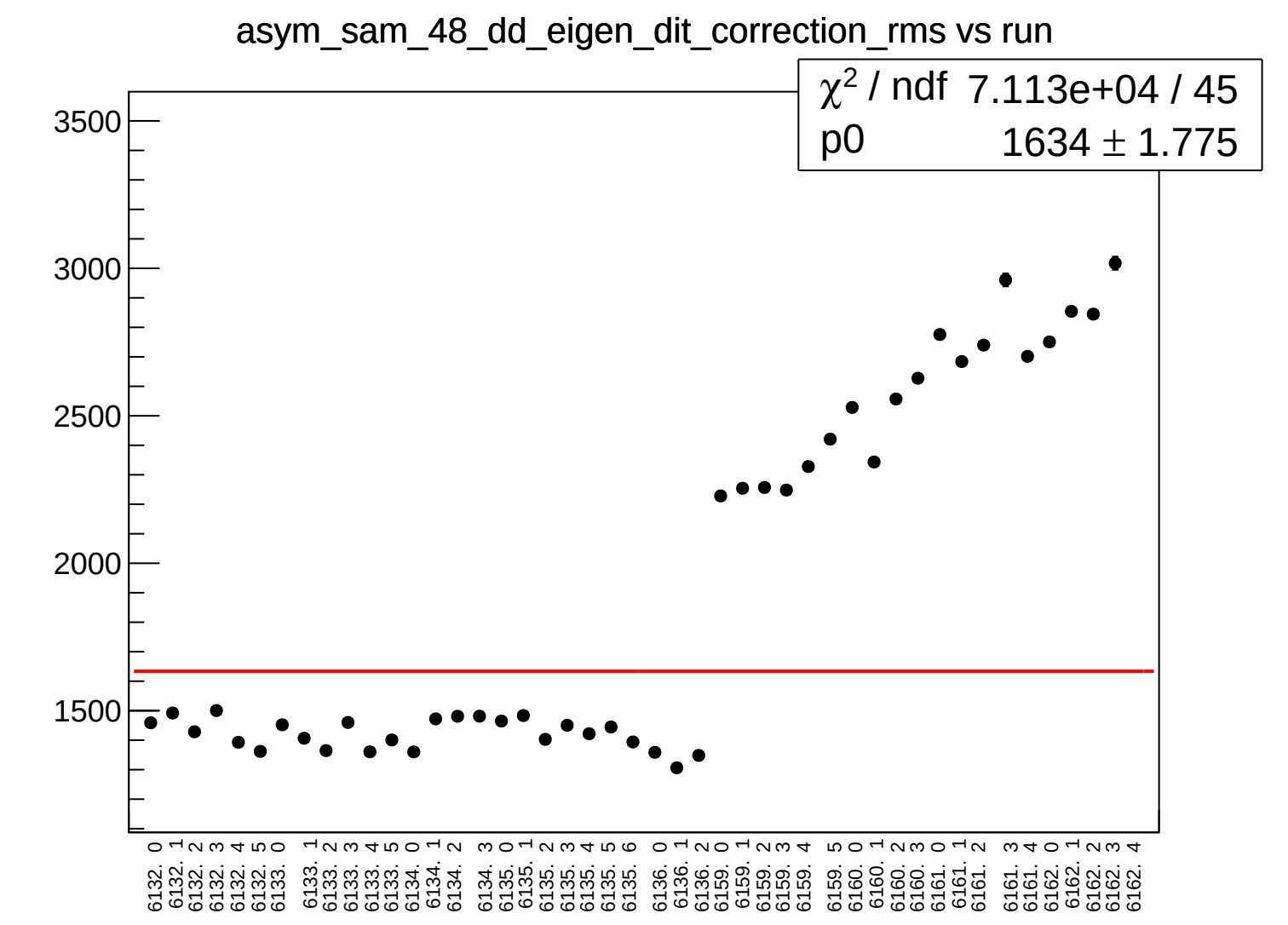
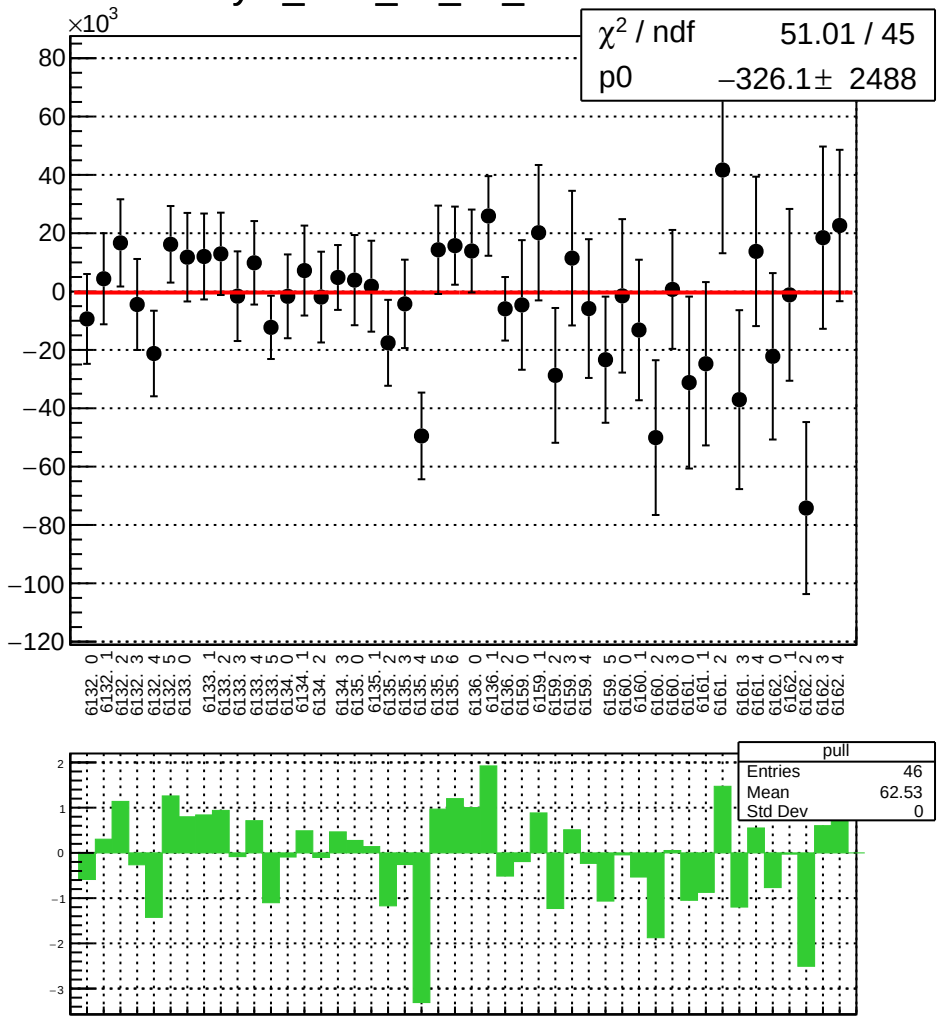
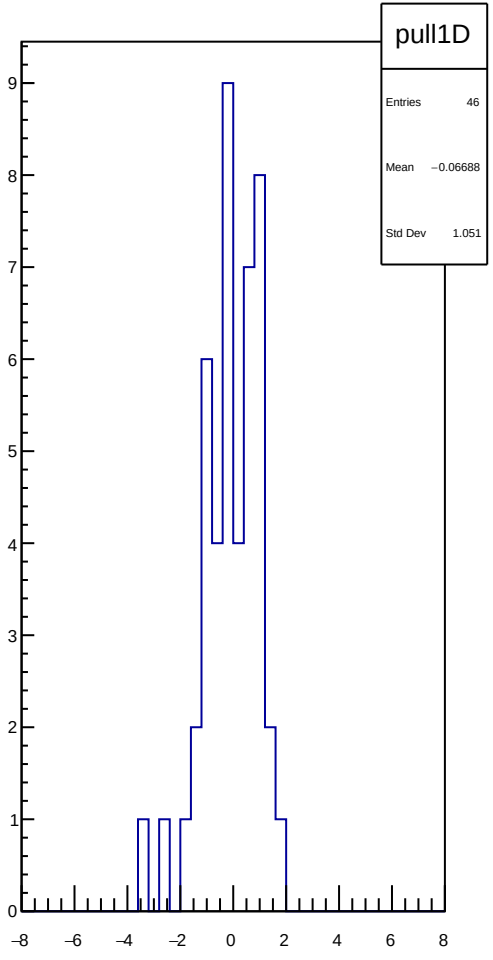
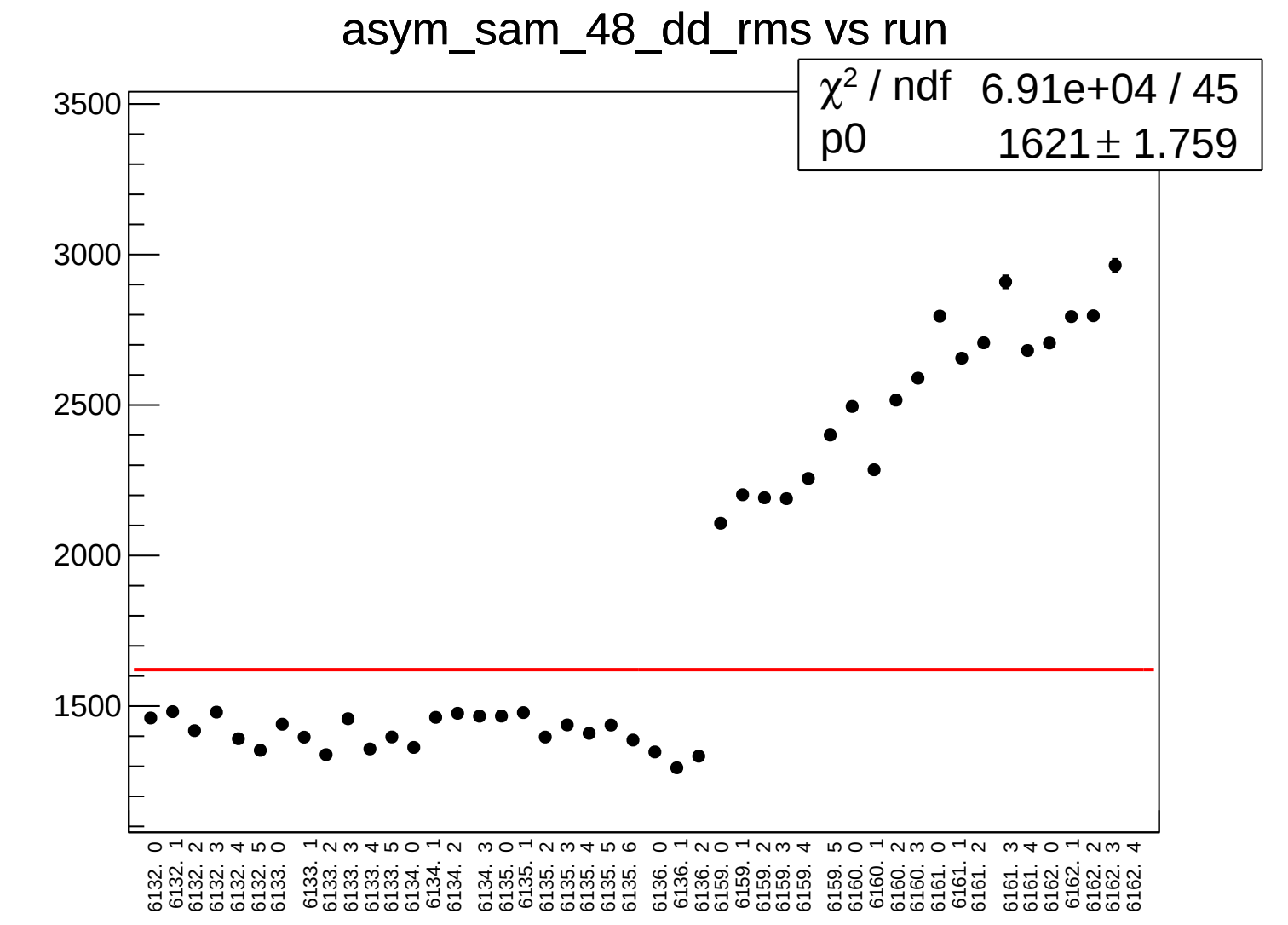
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

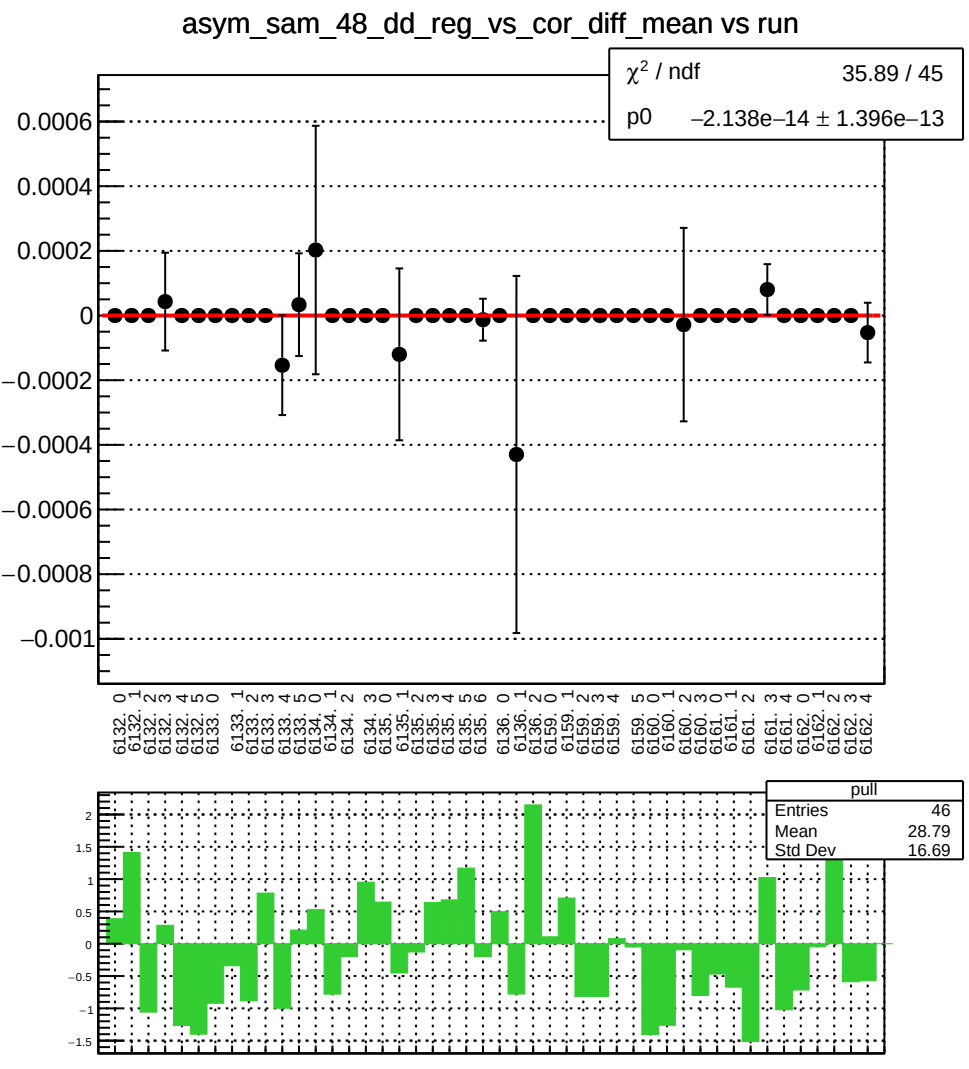

asym_sam_48_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 50.41 / 45
p0 −3.216 ± 2510
pull
Entries 46
Mean 64.23
Std Dev 0
pull1D
Entries 46
Mean 0.06827
Std Dev 1.045

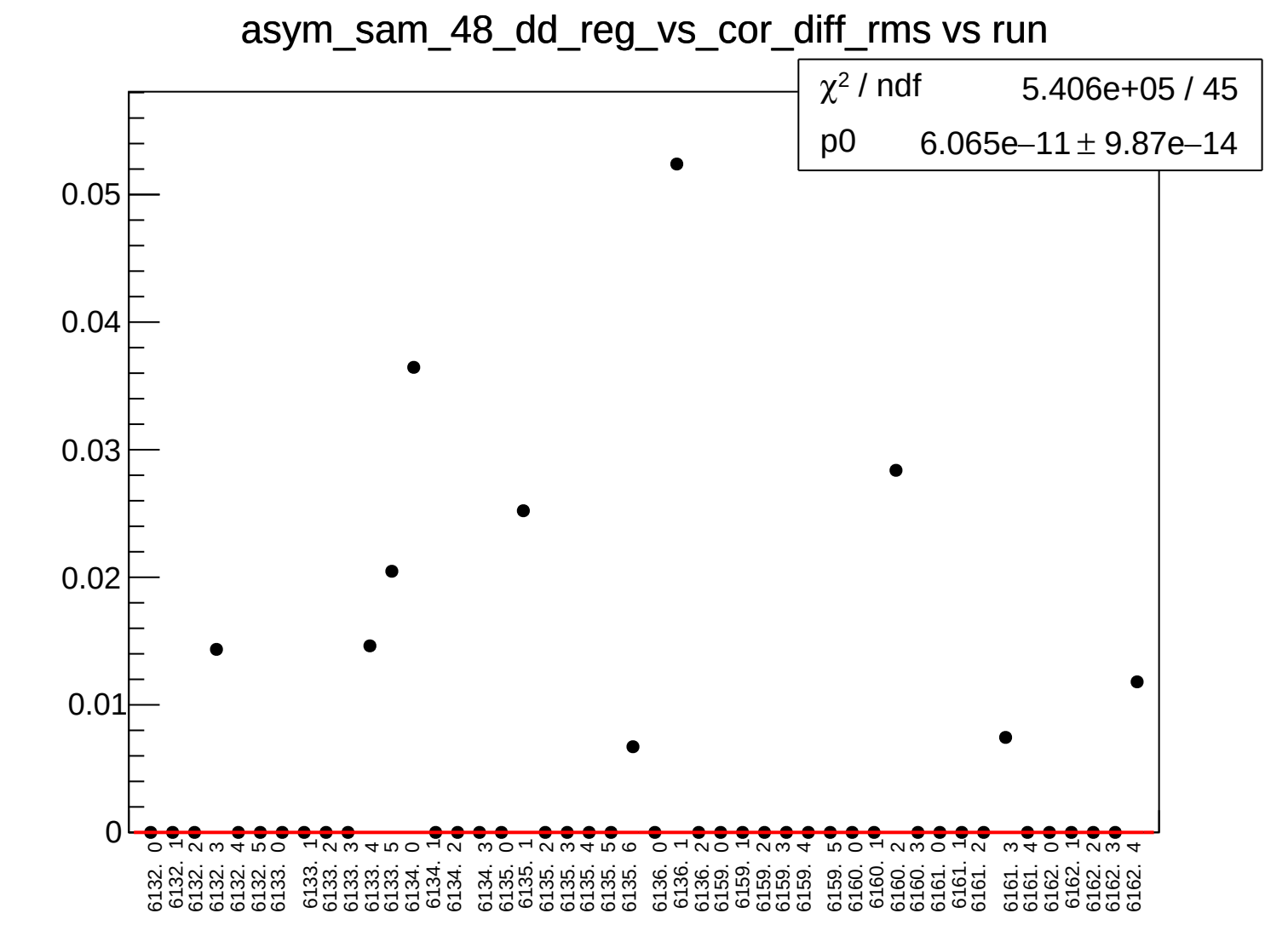

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 7.113e+04 / 45
p0 1634 ± 1.775
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

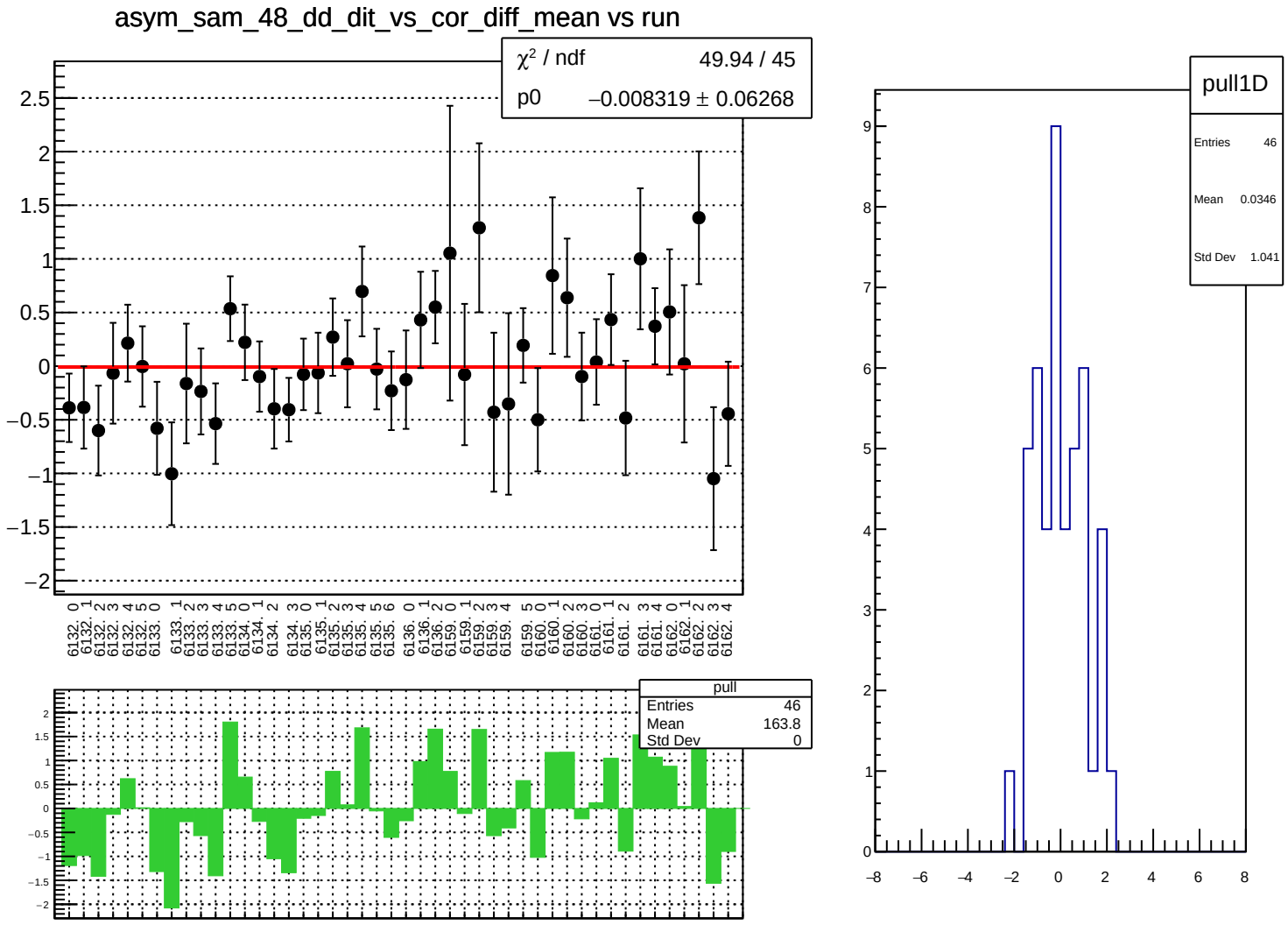

asym_sam_48_dd_mean vs run
×10^3
χ² / ndf 51.01 / 45
p0 −326.1± 2488
pull
Entries 46
Mean 62.53
Std Dev 0

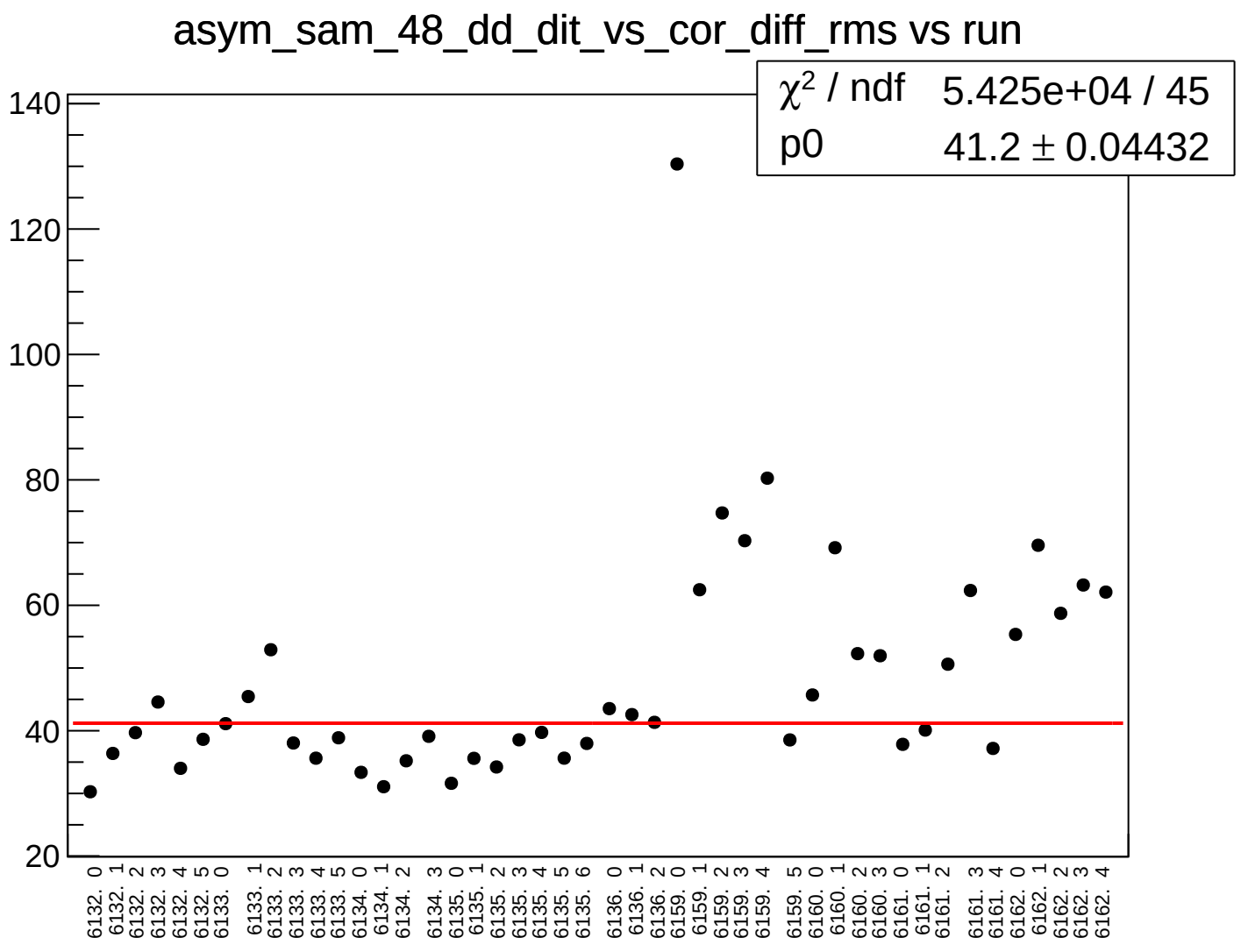

pull1D
Entries 46
Mean −0.06688
Std Dev 1.051


asym_sam_48_dd_rms vs run
χ² / ndf 6.91e+04 / 45
p0 1621 ± 1.759
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 35.89 / 45
p0 −2.138e−14 ± 1.396e−13
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 28.79
Std Dev 16.69
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.1358
Std Dev 0.8728
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.406e+05 / 45
p0 6.065e−11 ± 9.87e−14
0.05
0.04
0.03
0.02
0.01
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 49.94 / 45
p0 −0.008319 ± 0.06268
pull
Entries 46
Mean 163.8
Std Dev 0
pull1D
Entries 46
Mean 0.0346
Std Dev 1.041


asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.425e+04 / 45
p0 41.2 ± 0.04432
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6135. 5
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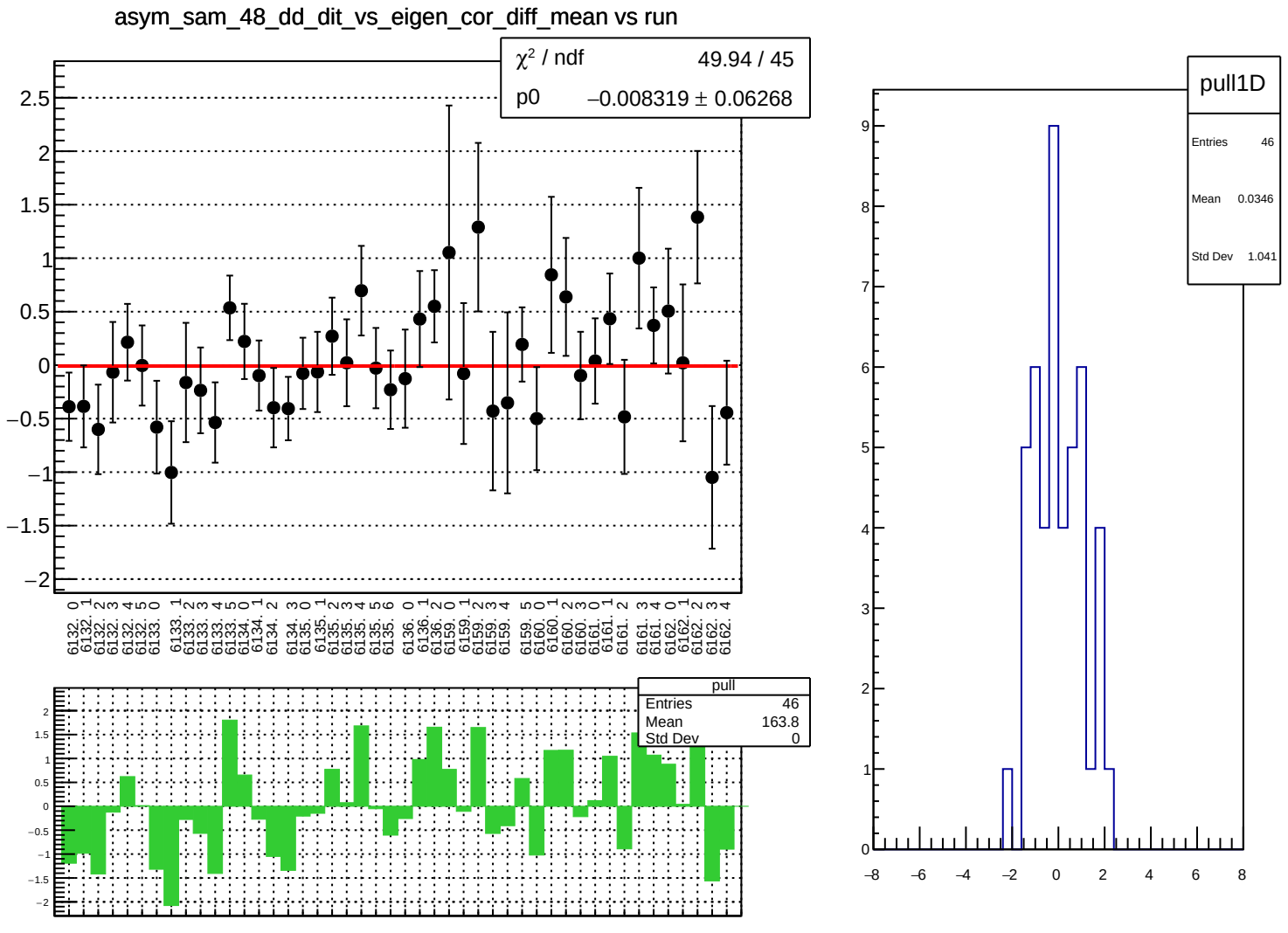
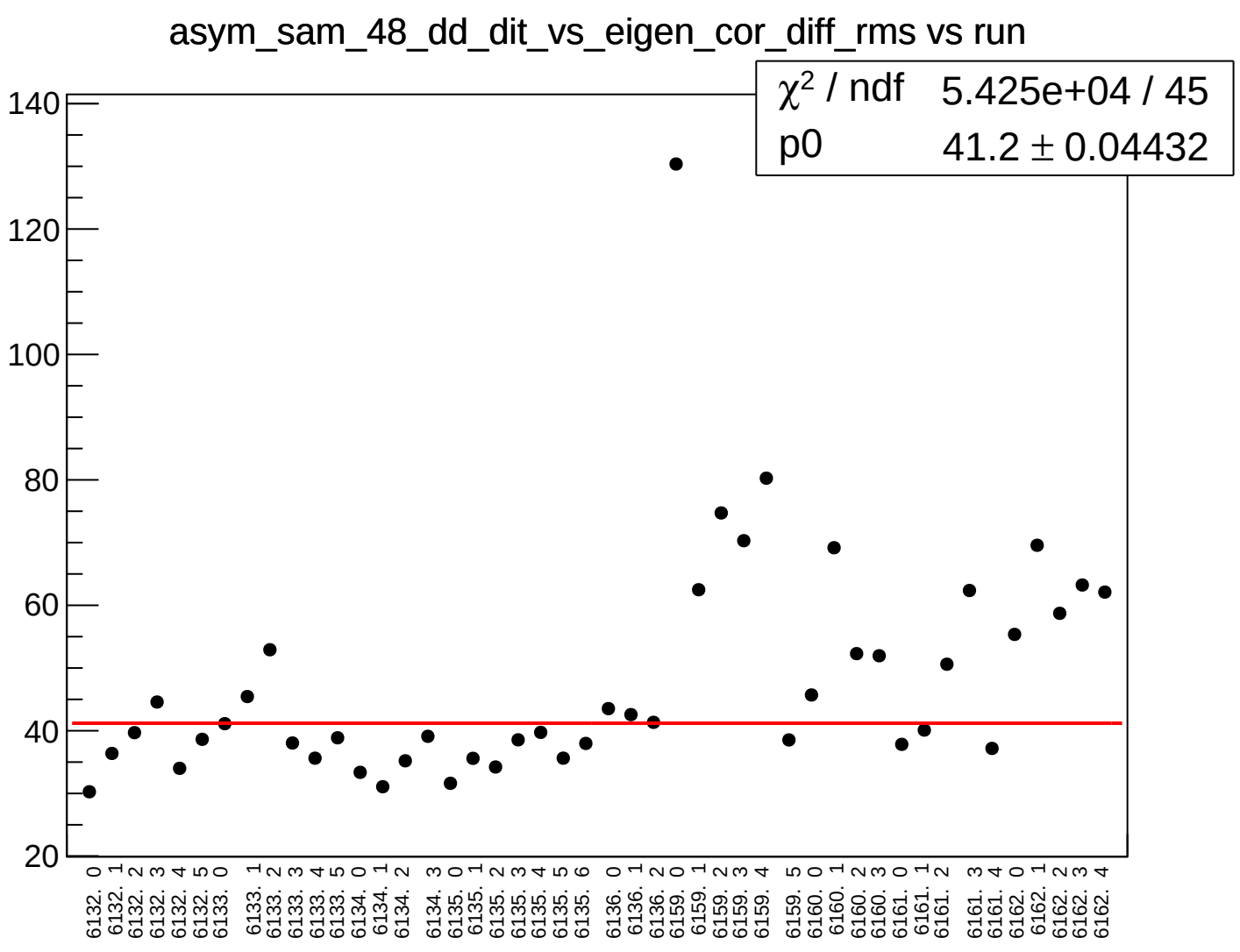
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.94 / 45
p0 −0.008319 ± 0.06268
pull
Entries 46
Mean 163.8
Std Dev 0
pull1D
Entries 46
Mean 0.0346
Std Dev 1.041


asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.425e+04 / 45
p0 41.2 ± 0.04432
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6134. 2
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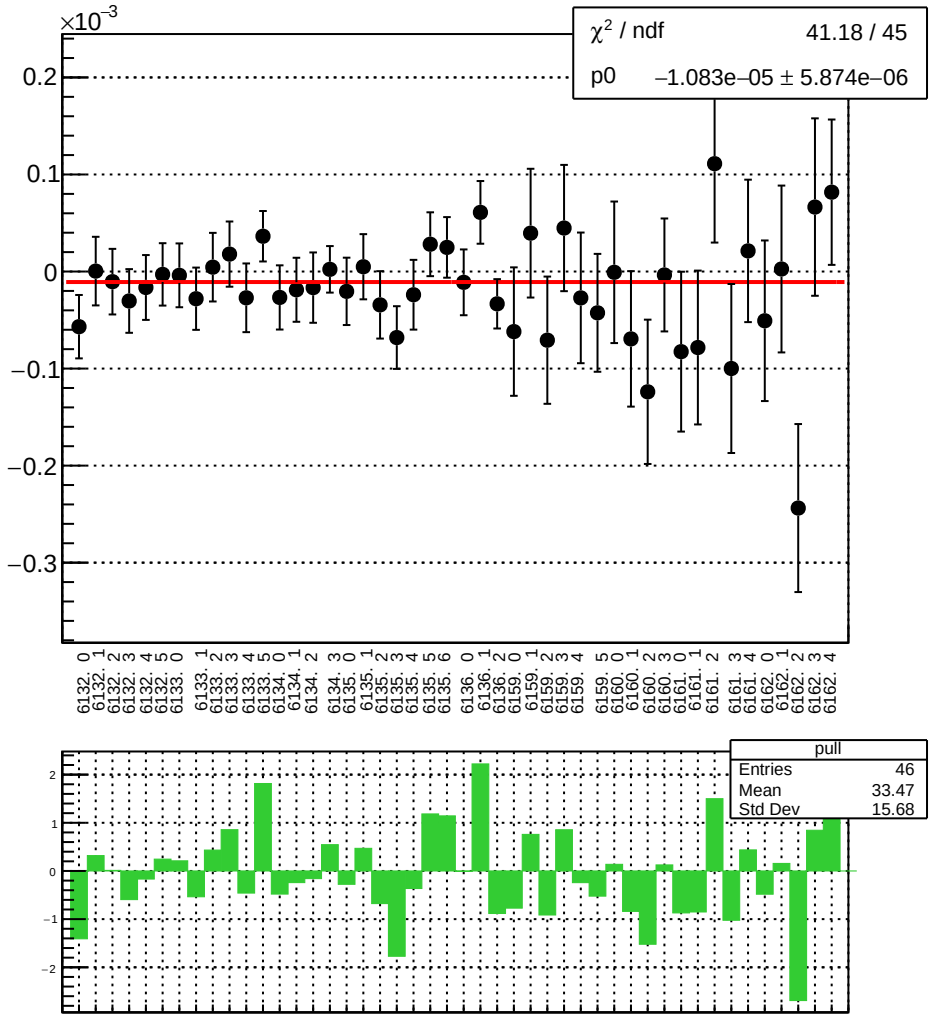
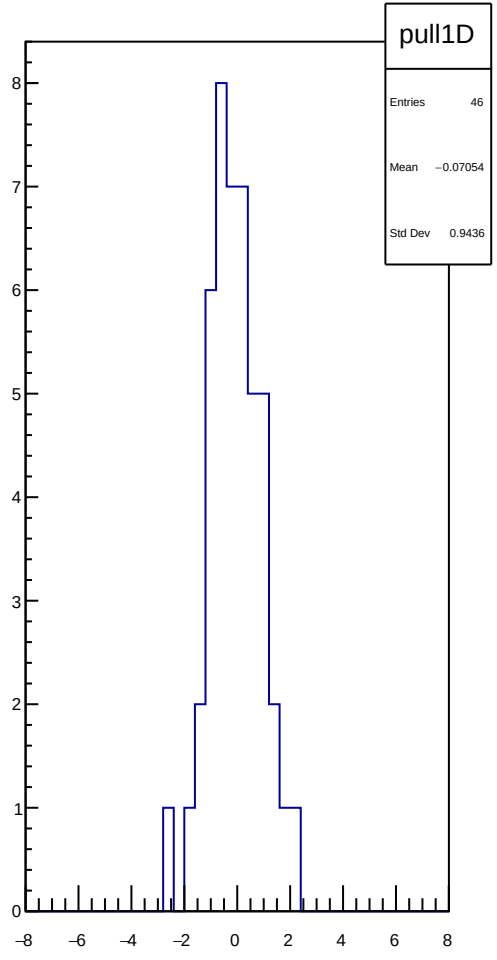
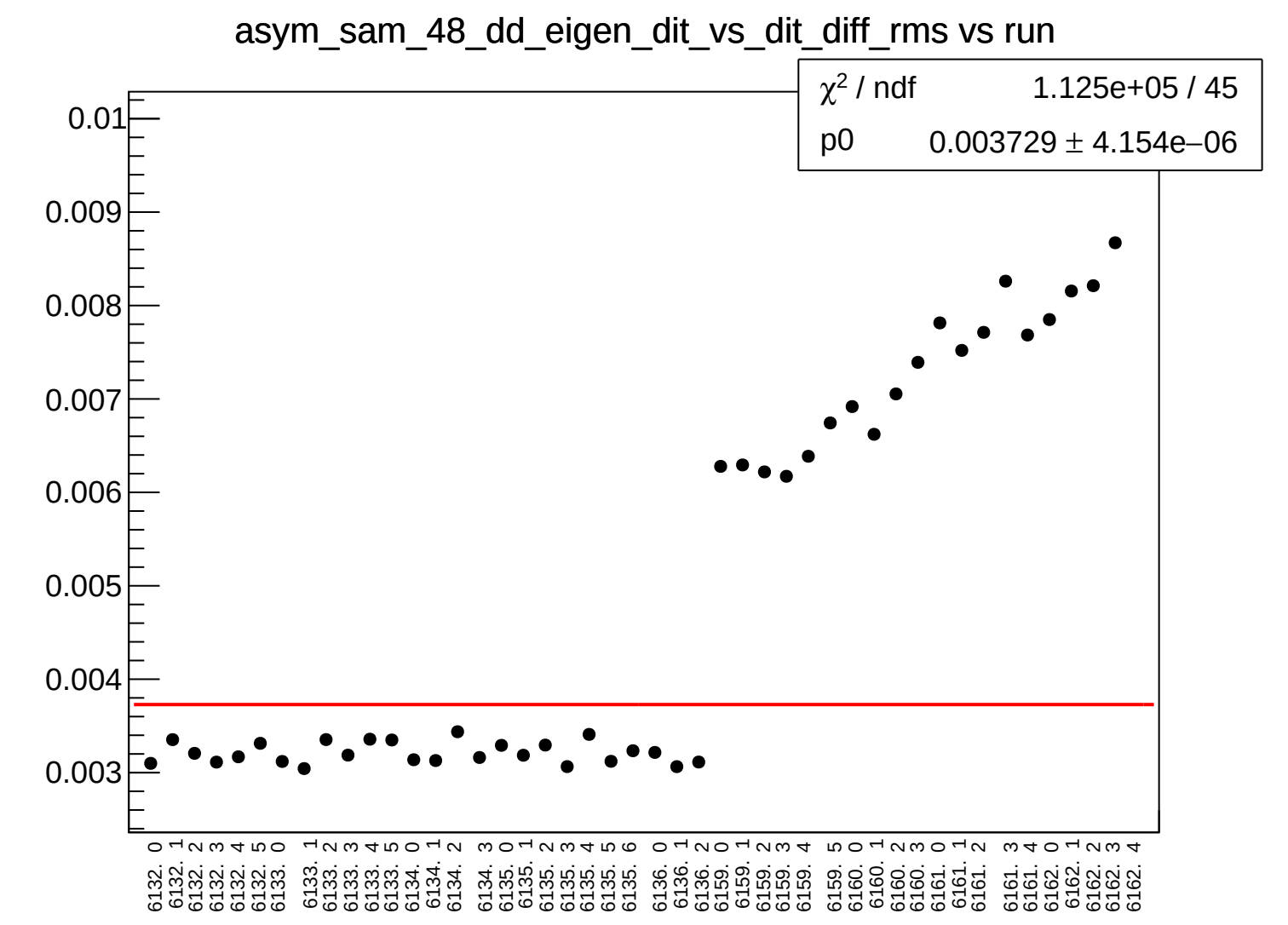
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 41.18 / 45
p0 −1.083e−05 ± 5.874e−06
pull
Entries 46
Mean 33.47
Std Dev 15.68


pull1D
Entries 46
Mean −0.07054
Std Dev 0.9436


asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.125e+05 / 45
p0 0.003729 ± 4.154e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
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6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
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6159. 1
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6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
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6162. 2
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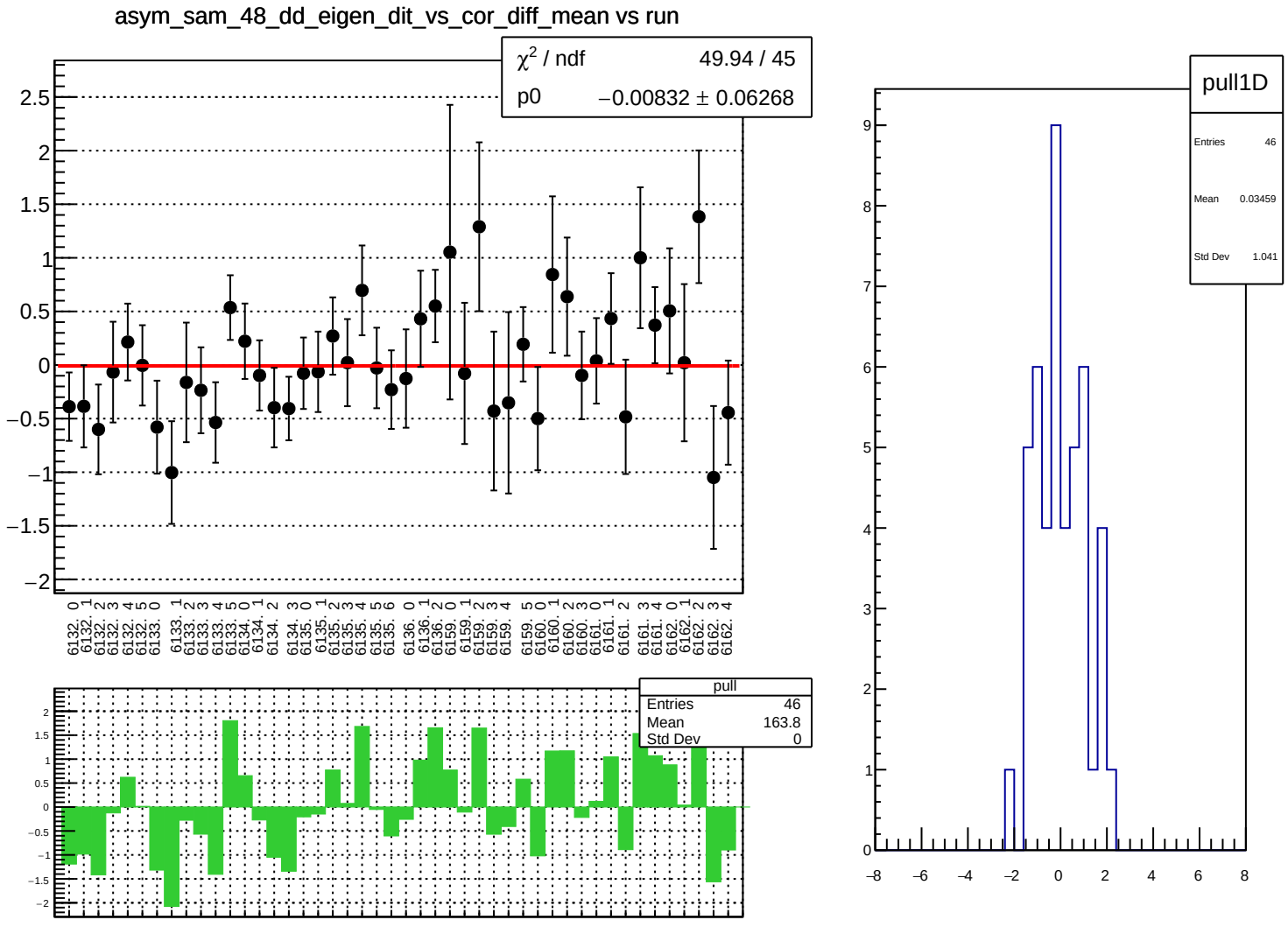
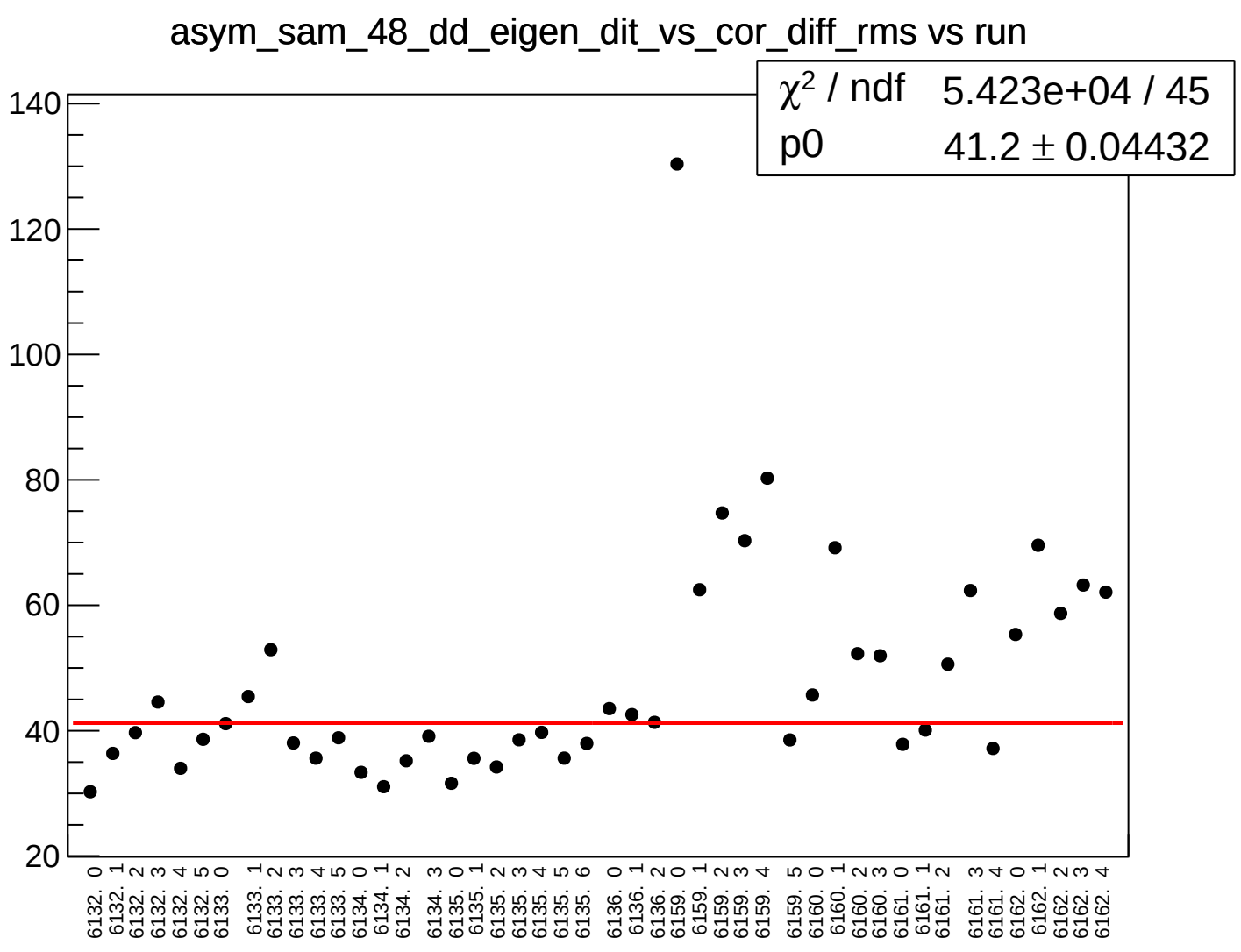
6162. 4


asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 49.94 / 45
p0 −0.00832 ± 0.06268
pull
Entries 46
Mean 163.8
Std Dev 0
pull1D
Entries 46
Mean 0.03459
Std Dev 1.041


asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.423e+04 / 45
p0 41.2 ± 0.04432
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
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6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
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6162. 2
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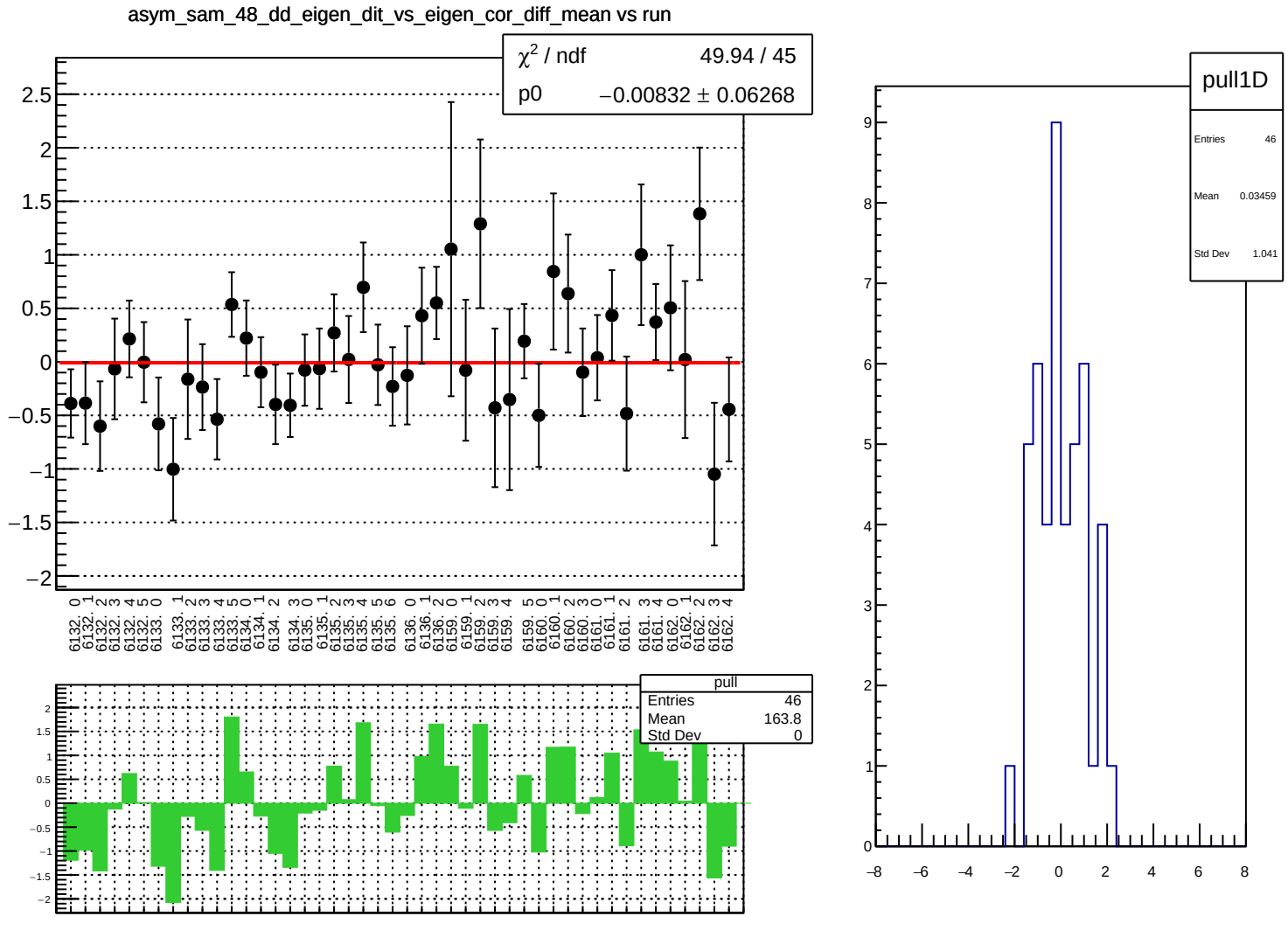
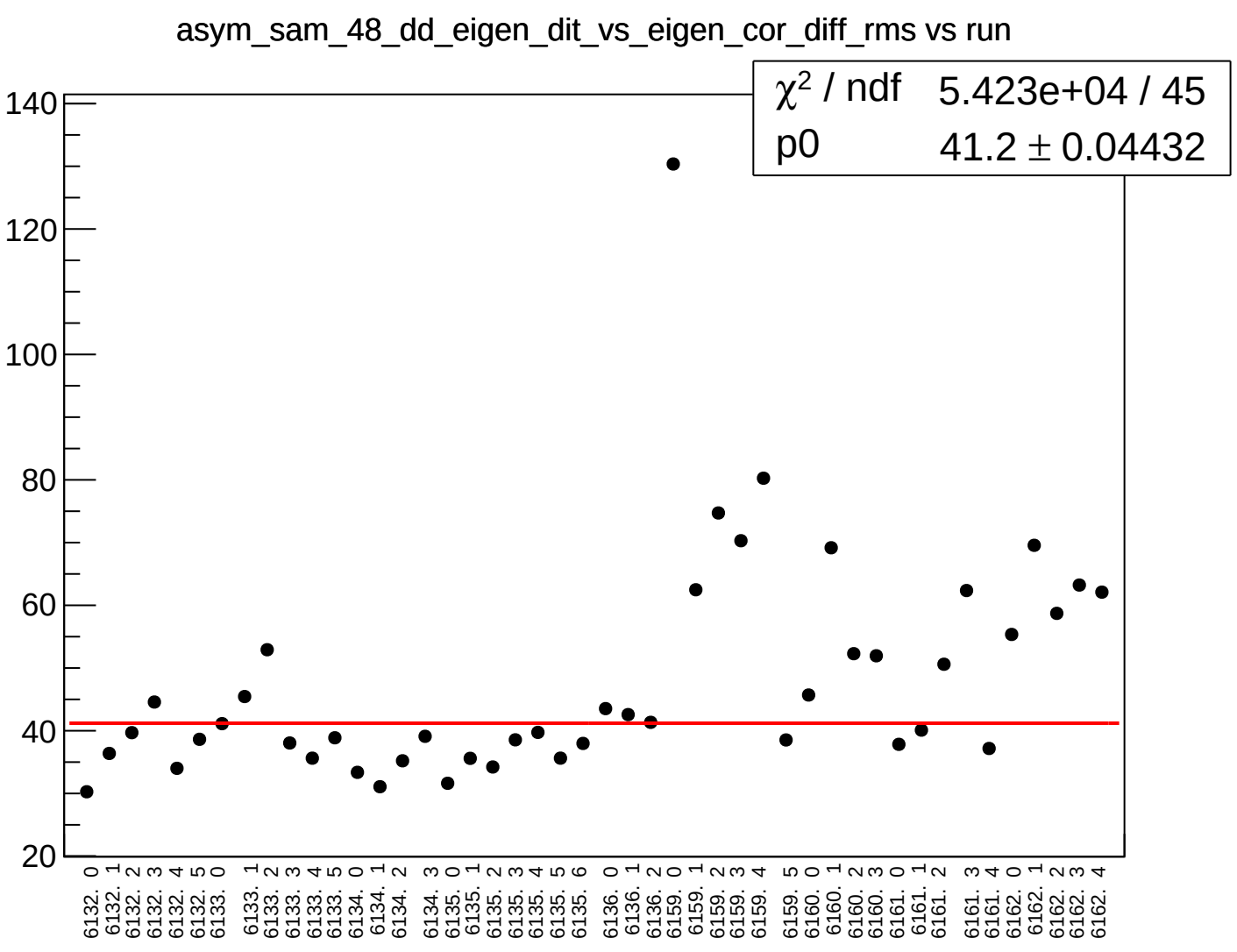
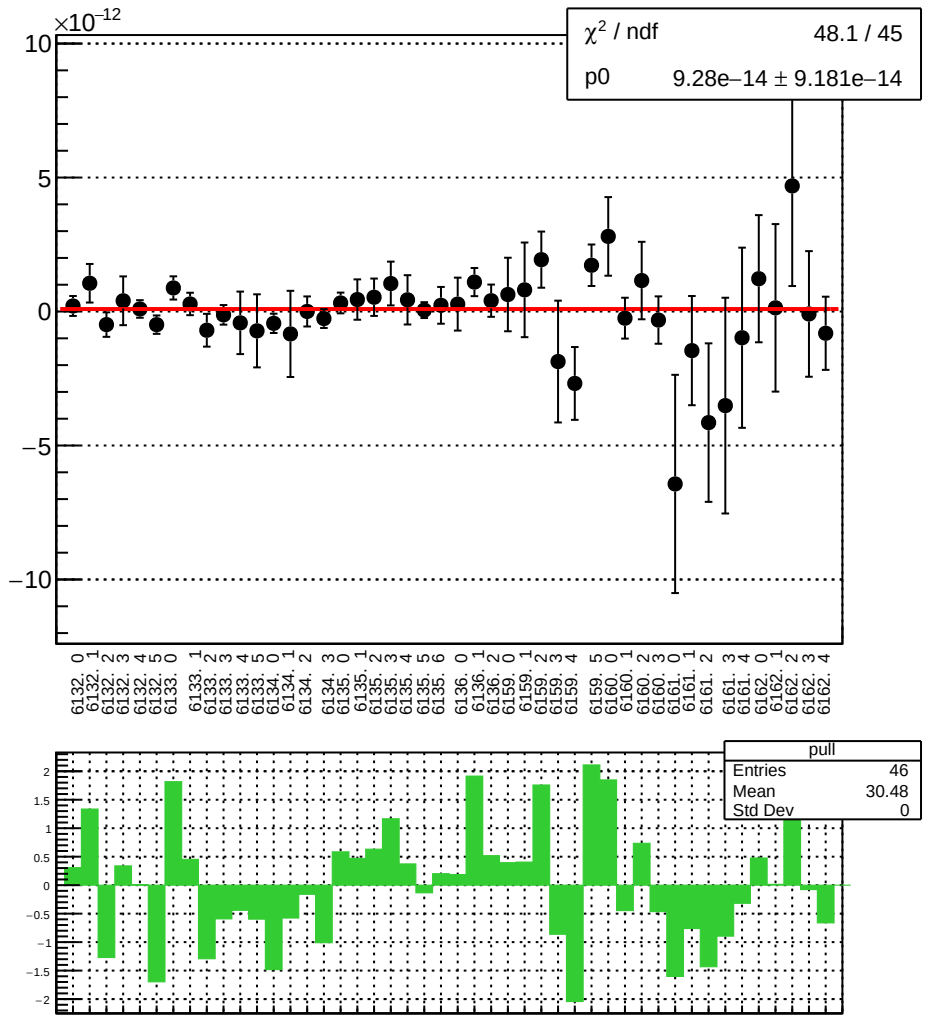
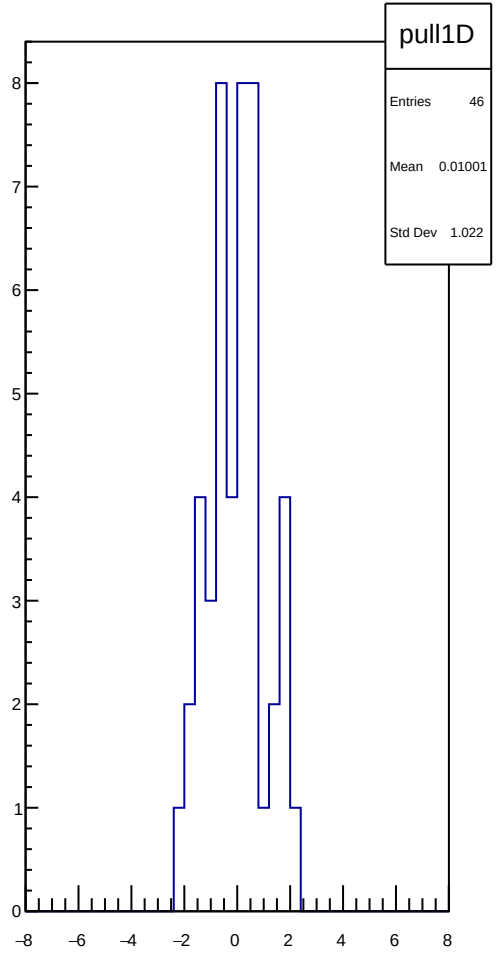
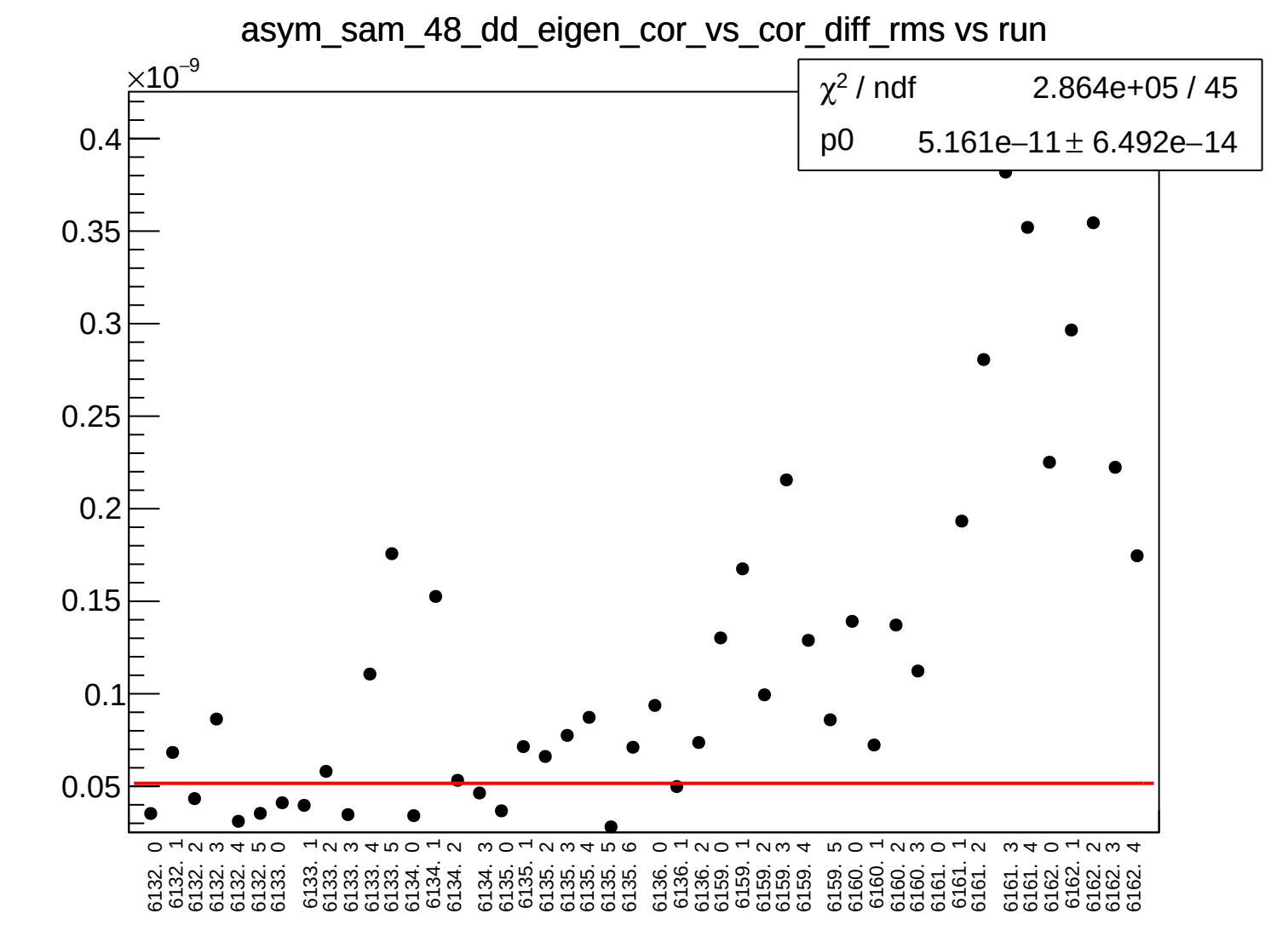
6162. 4

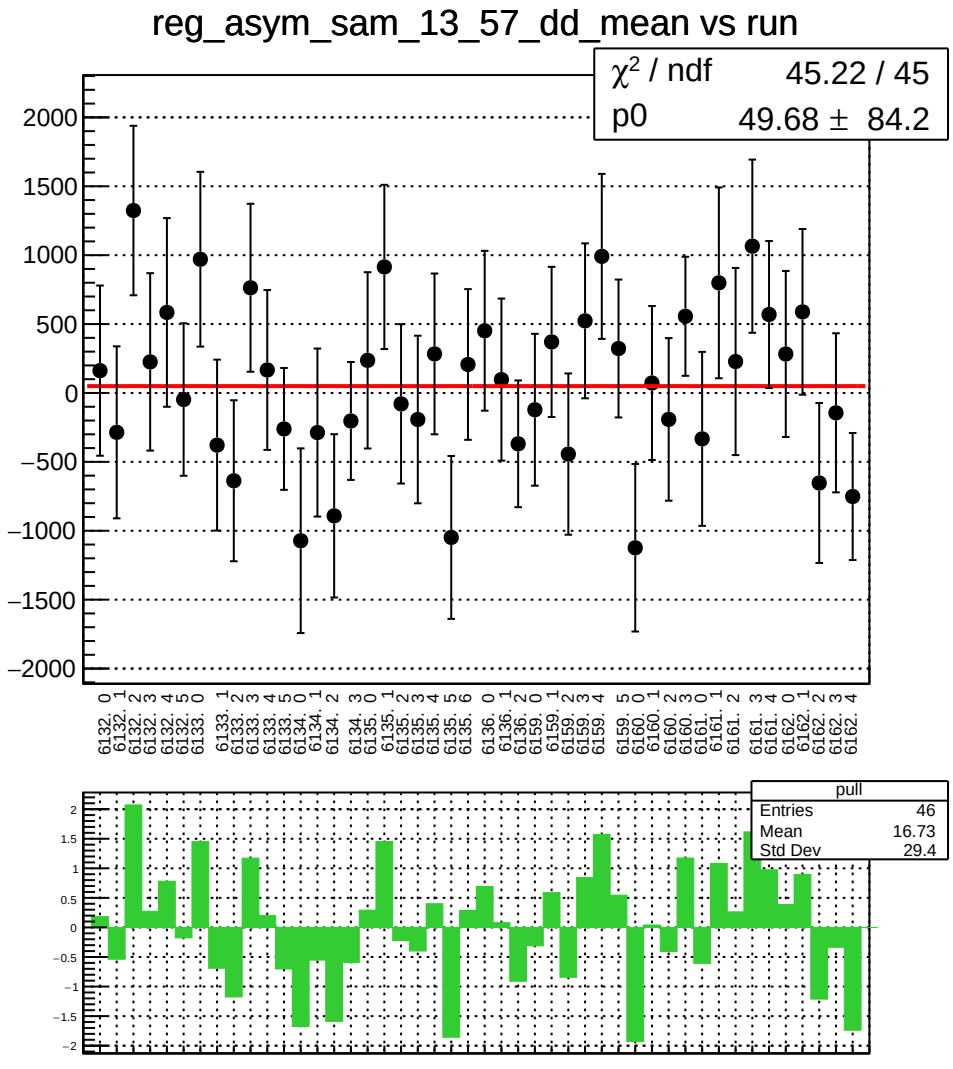

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.94 / 45
p0 −0.00832 ± 0.06268
pull
Entries 46
Mean 163.8
Std Dev 0
pull1D
Entries 46
Mean 0.03459
Std Dev 1.041

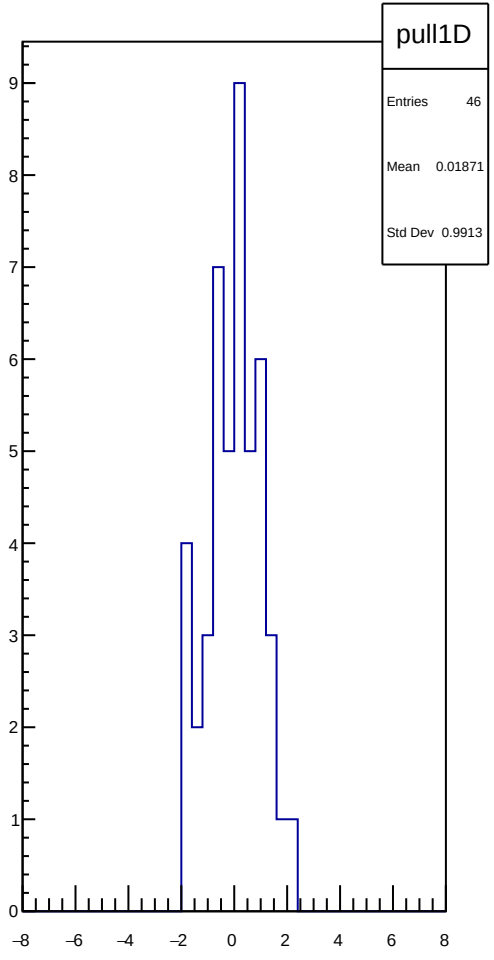

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.423e+04 / 45
p0 41.2 ± 0.04432
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

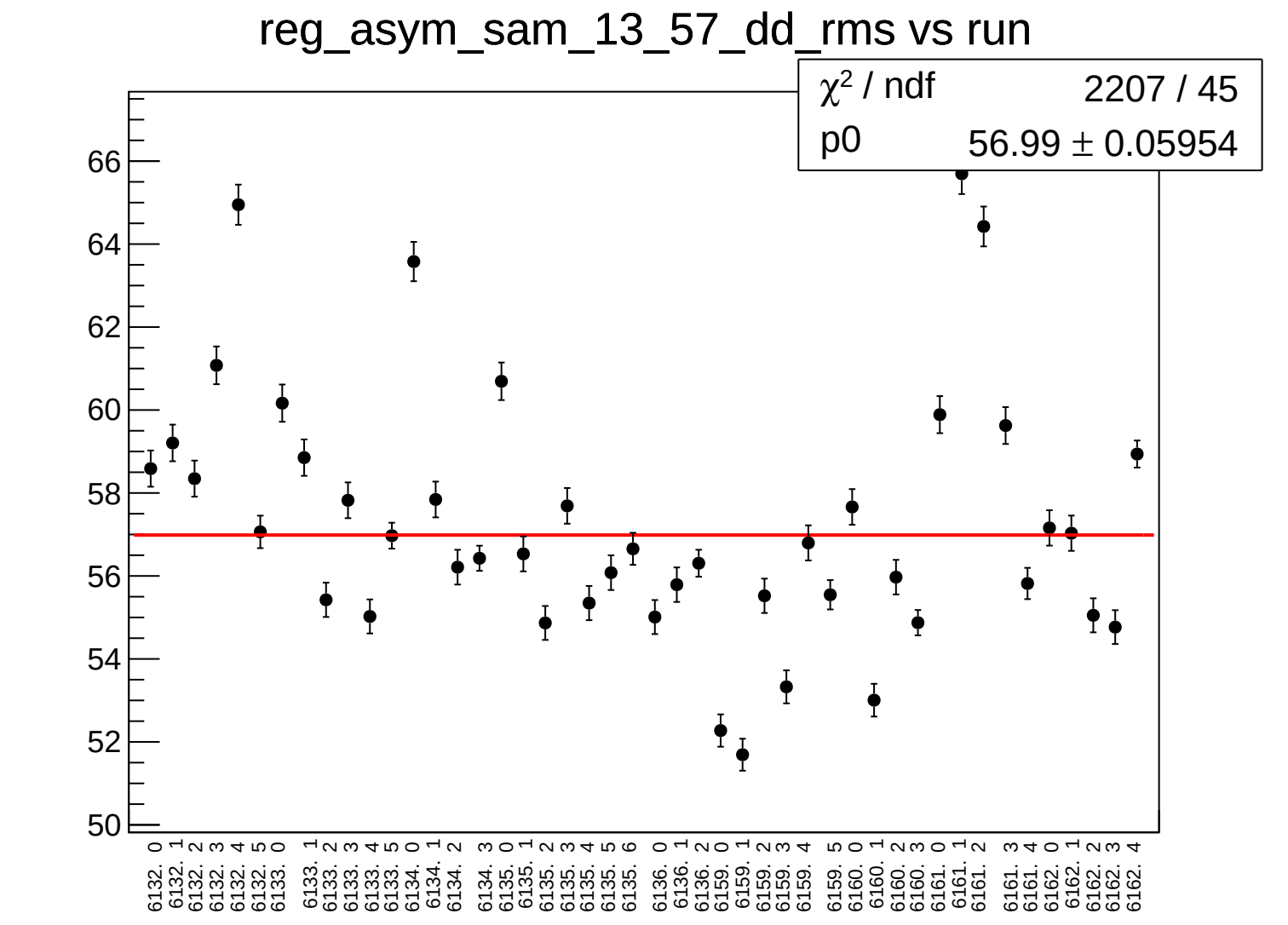

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 48.1 / 45
p0 9.28e−14 ± 9.181e−14
pull
Entries 46
Mean 30.48
Std Dev 0

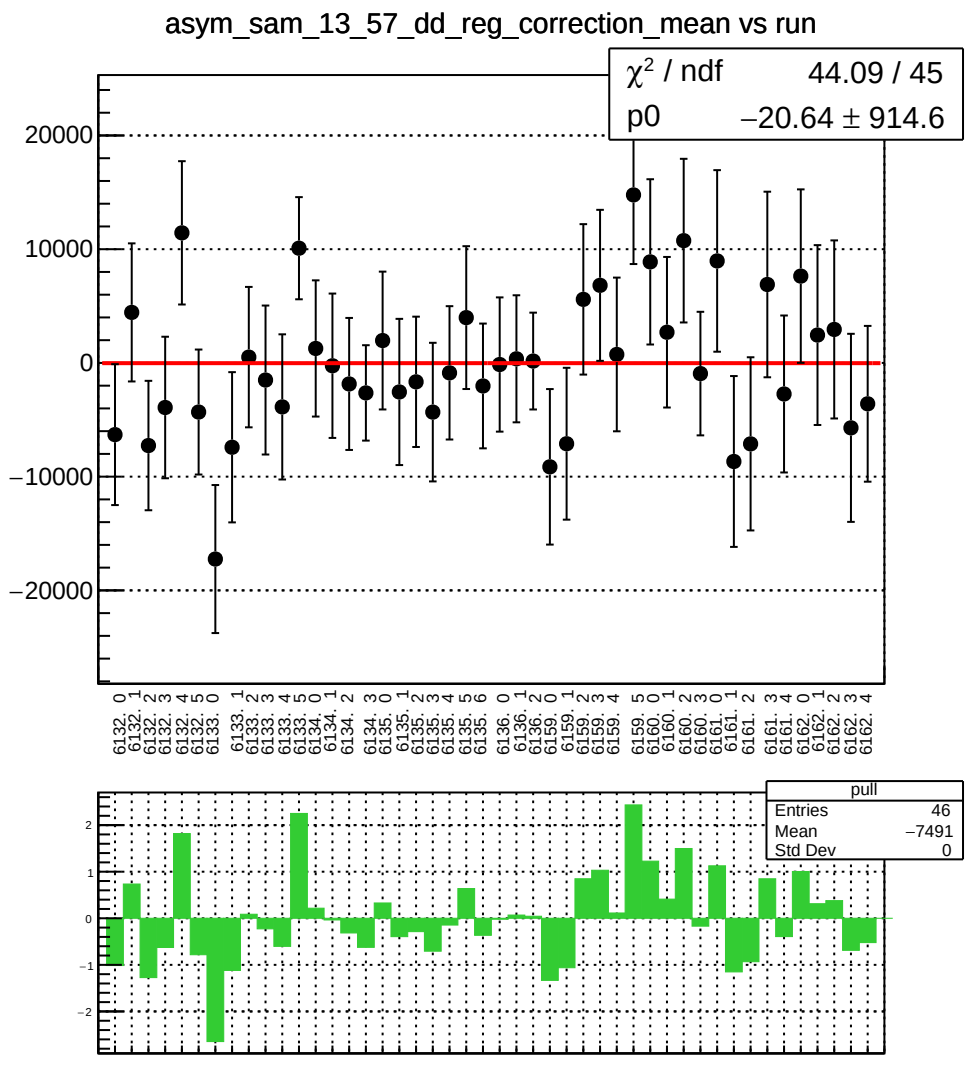

pull1D
Entries 46
Mean 0.01001
Std Dev 1.022

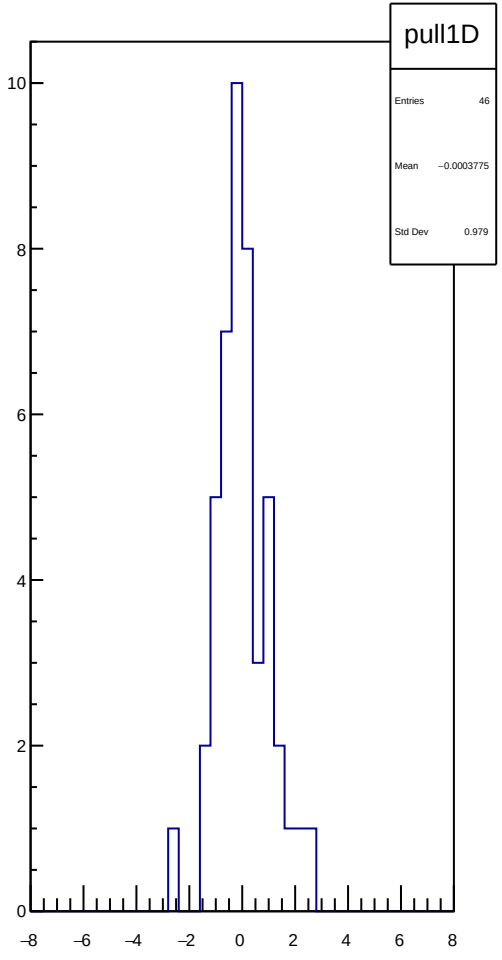

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.864e+05 / 45
p0 5.161e−11 ± 6.492e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

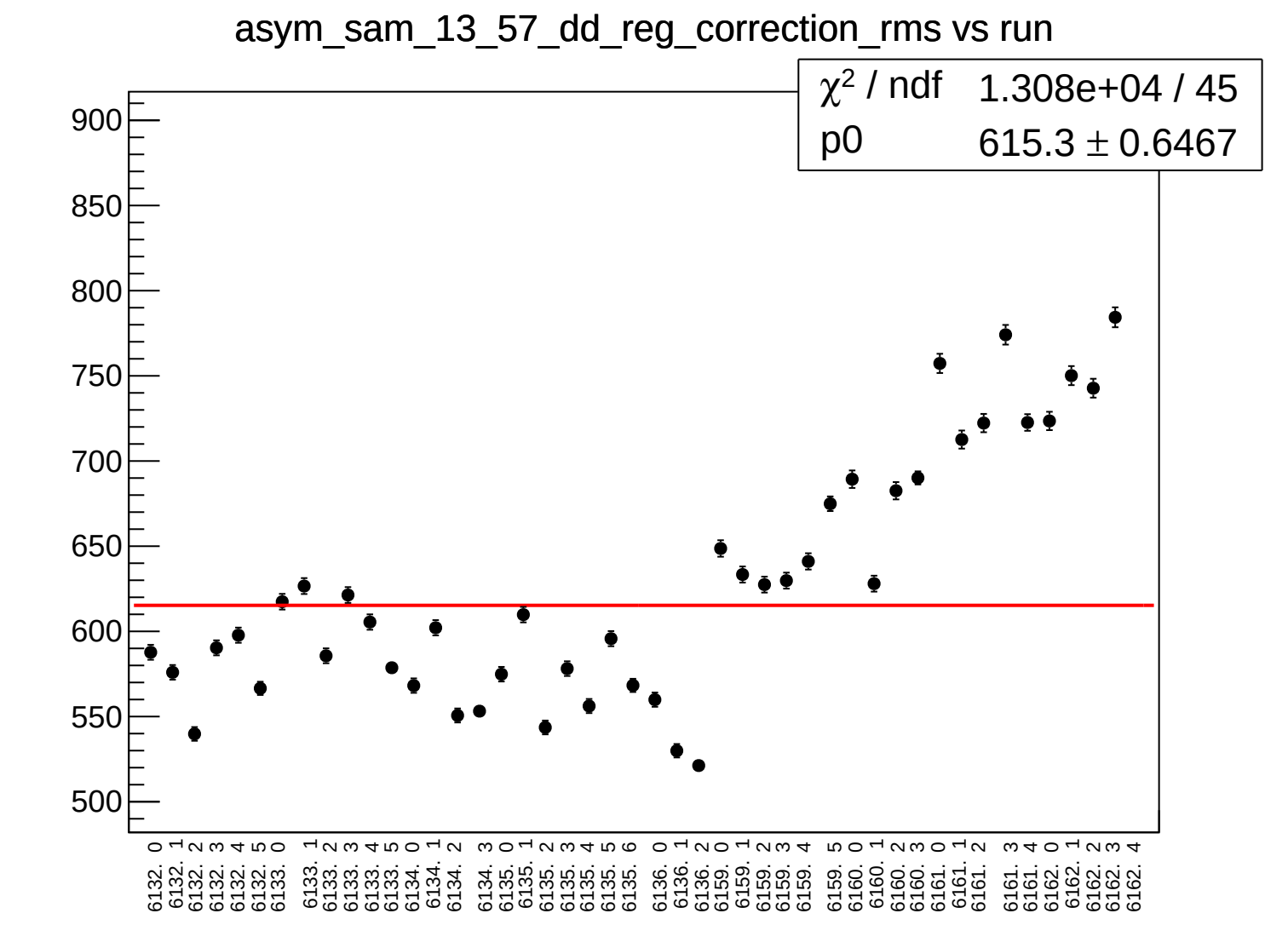

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 45.22 / 45
p0 49.68 ± 84.2
pull
Entries 46
Mean 16.73
Std Dev 29.4

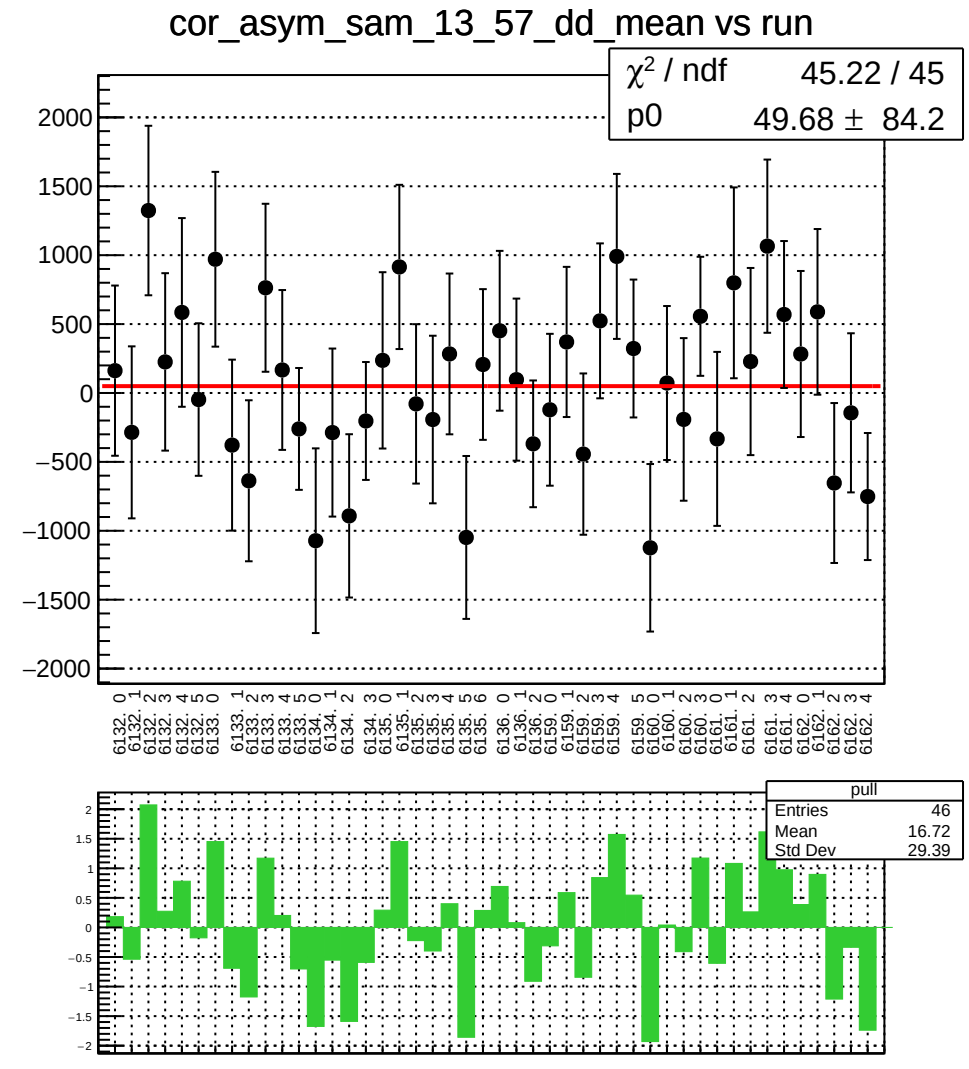

pull1D
Entries 46
Mean 0.01871
Std Dev 0.9913

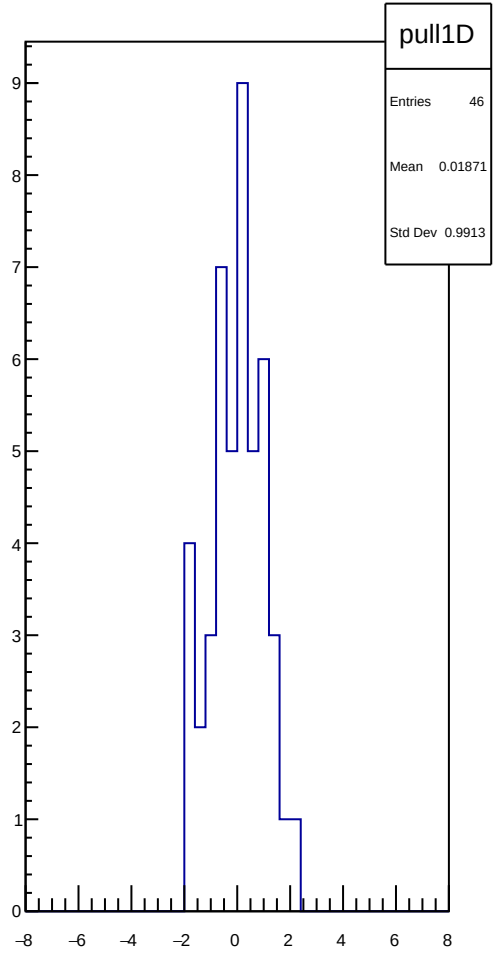

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 2207 / 45
p0 56.99 ± 0.05954
66
64
62
60
58
56
54
52
50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

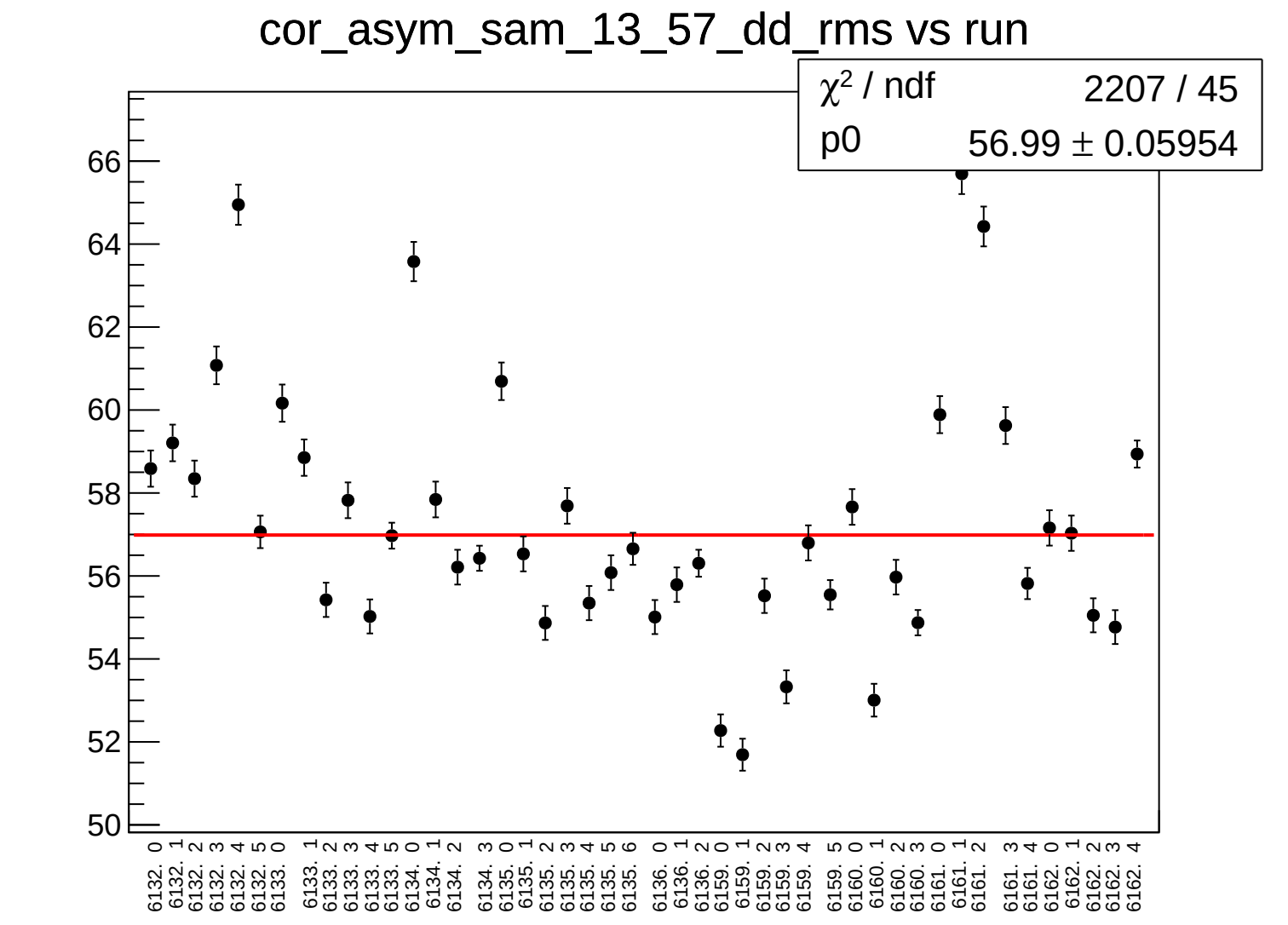

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 44.09 / 45
p0 −20.64 ± 914.6
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −7491
Std Dev 0
2
1
0
−1
−2

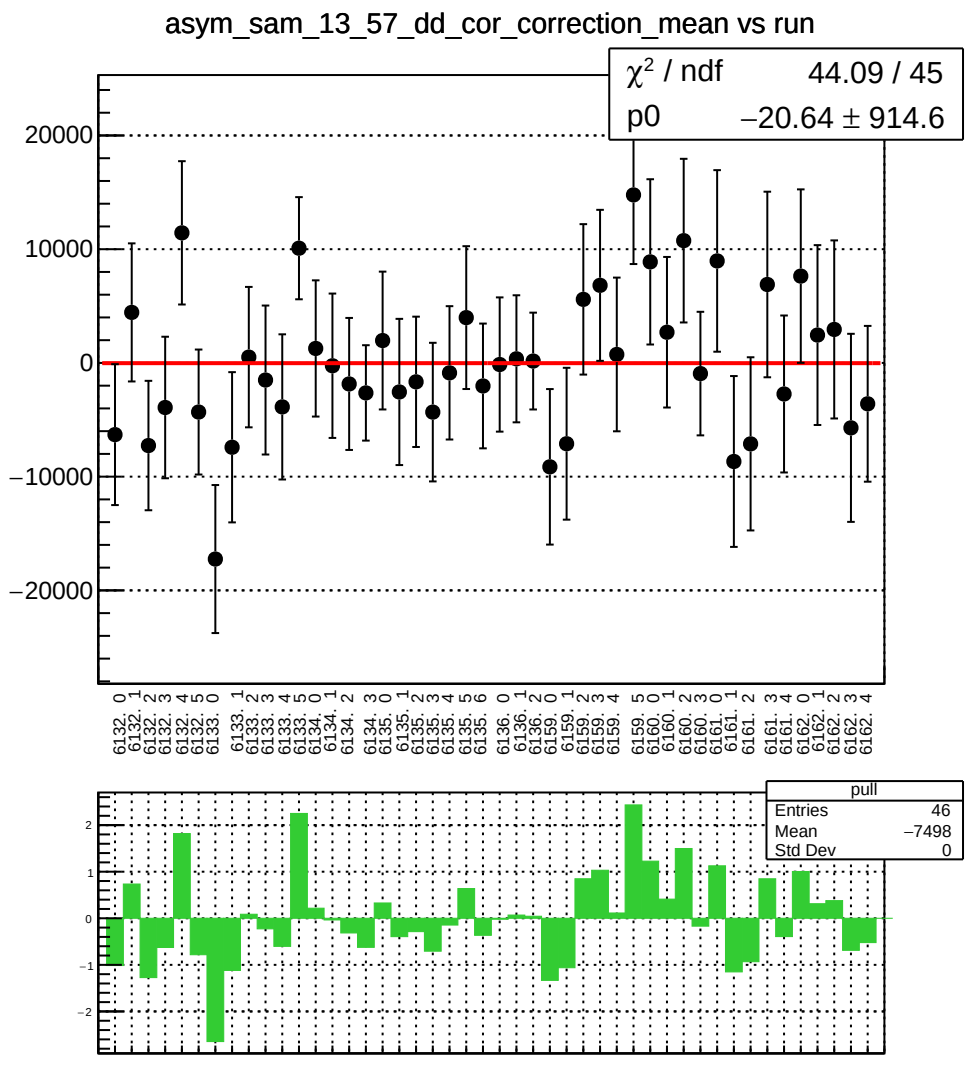

pull1D
Entries 46
Mean −0.0003775
Std Dev 0.979
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

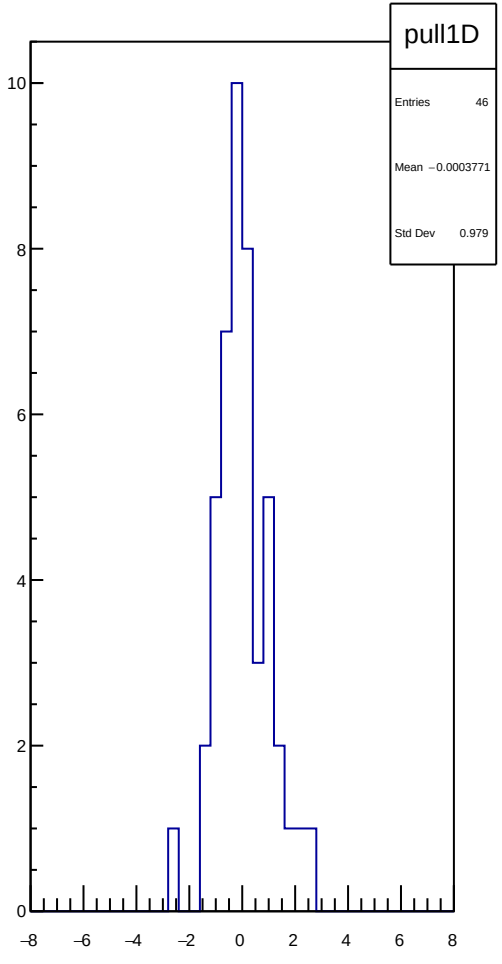

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 1.308e+04 / 45
p0 615.3 ± 0.6467
900
850
800
750
700
650
600
550
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

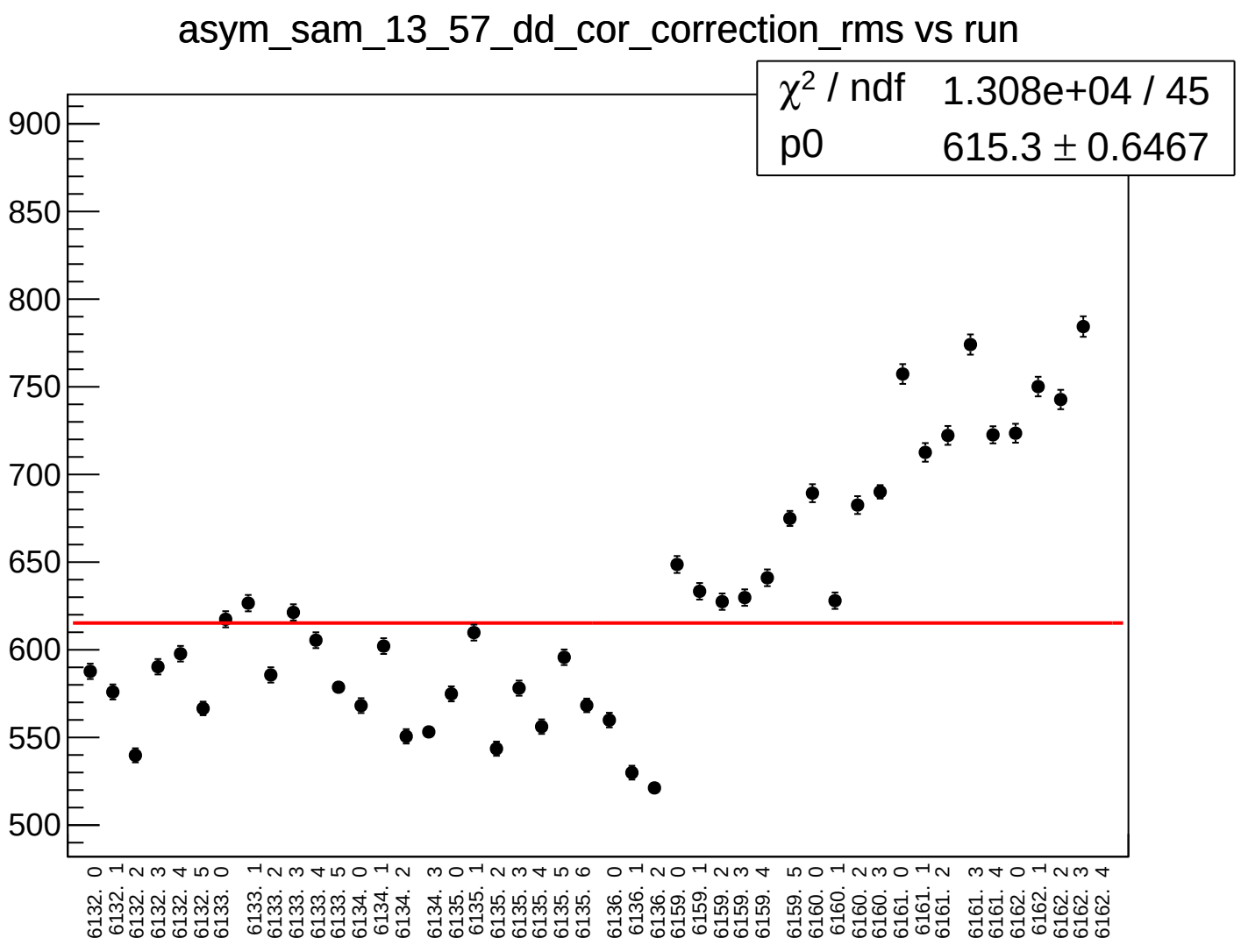

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 45.22 / 45
p0 49.68 ± 84.2
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 16.72
Std Dev 29.39
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.01871
Std Dev 0.9913
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 2207 / 45
p0 56.99 ± 0.05954
66
64
62
60
58
56
54
52
50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 44.09 / 45
p0 −20.64 ± 914.6
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −7498
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.0003771
Std Dev 0.979
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 1.308e+04 / 45
p0 615.3 ± 0.6467
900
850
800
750
700
650
600
550
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
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6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
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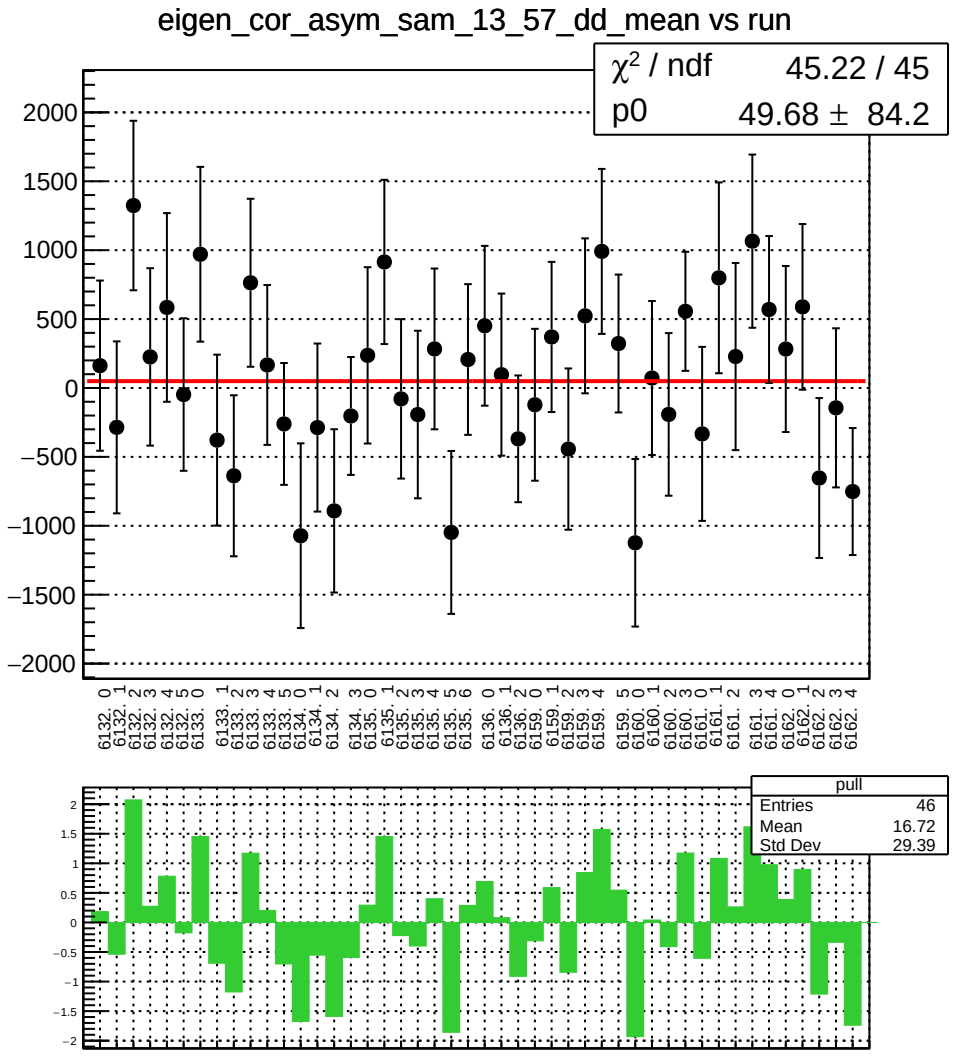
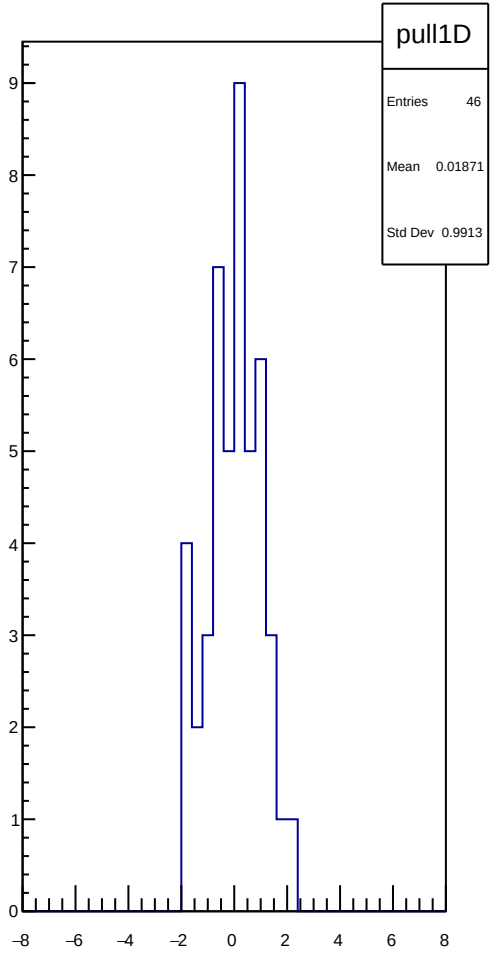
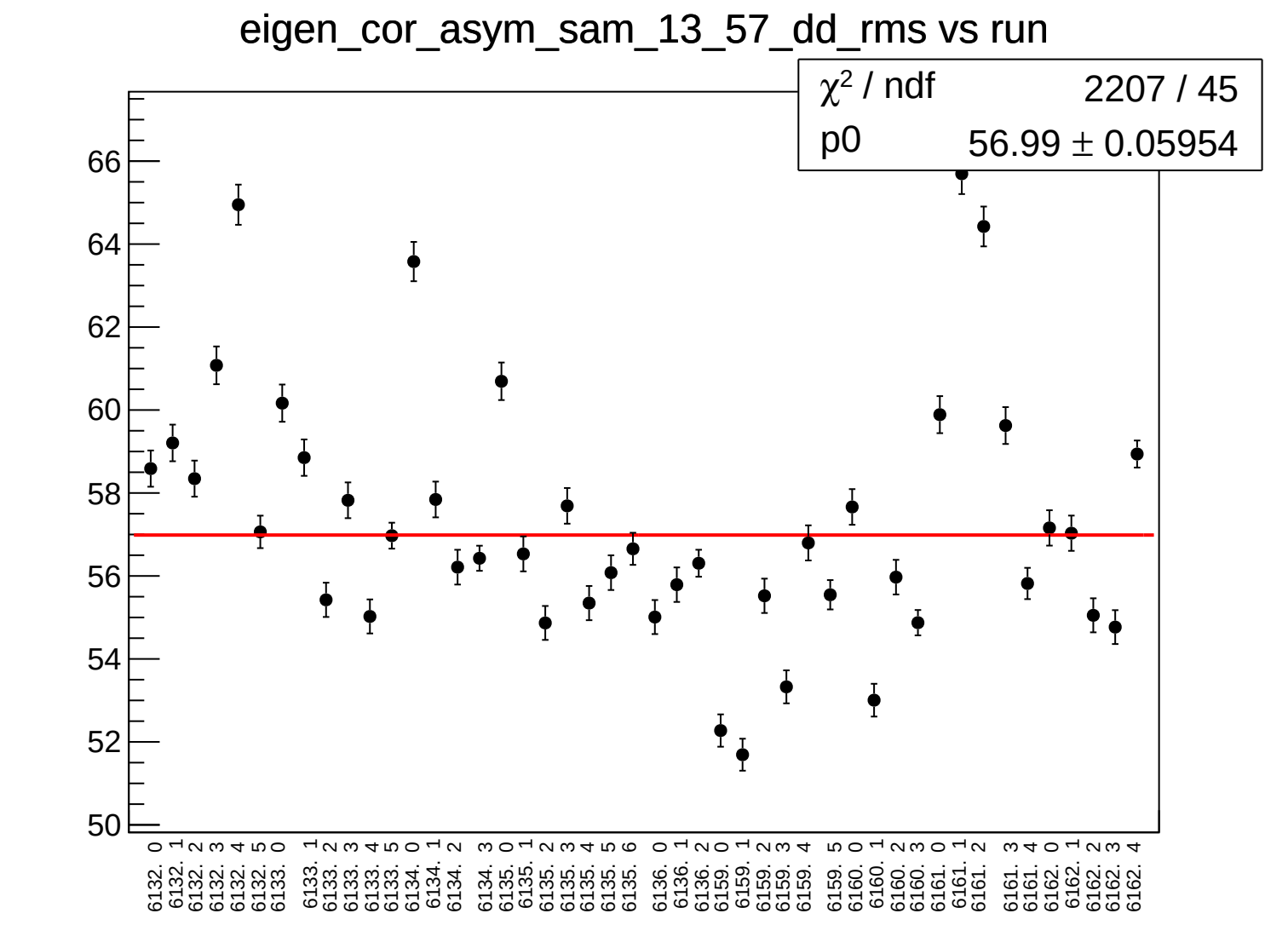
6162. 3
6162. 4


eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 45.22 / 45
p0 49.68 ± 84.2
pull
Entries 46
Mean 16.72
Std Dev 29.39


pull1D
Entries 46
Mean 0.01871
Std Dev 0.9913


eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 2207 / 45
p0 56.99 ± 0.05954
66
64
62
60
58
56
54
52
50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6159. 3
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6160. 1
6160. 2
6160. 3
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6161. 2
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6162. 0
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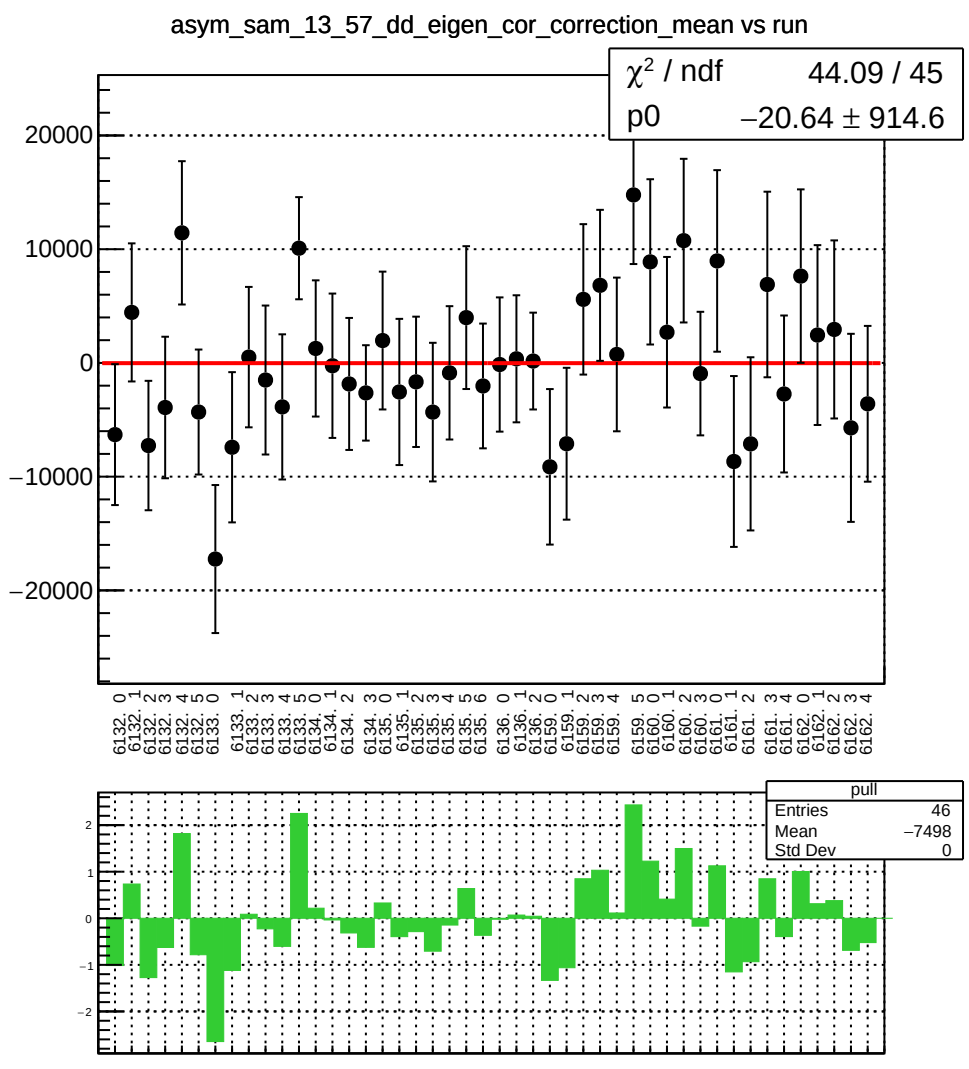
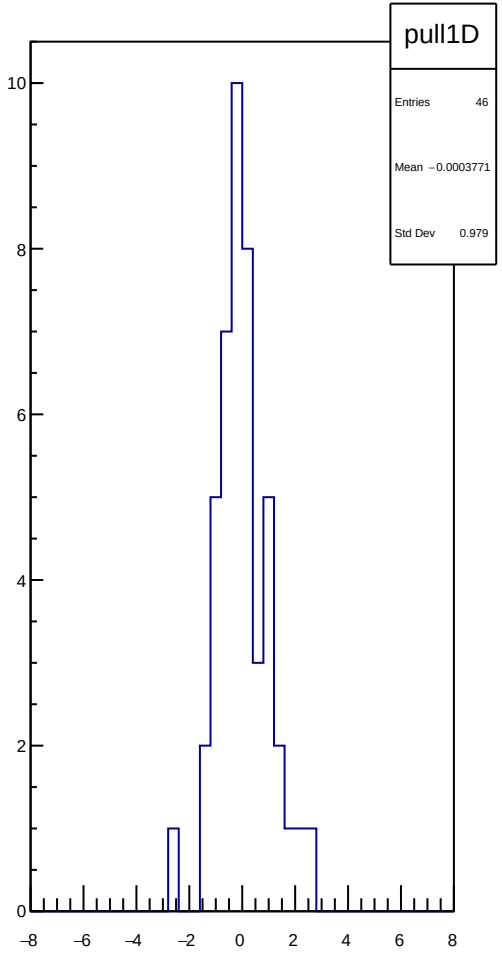
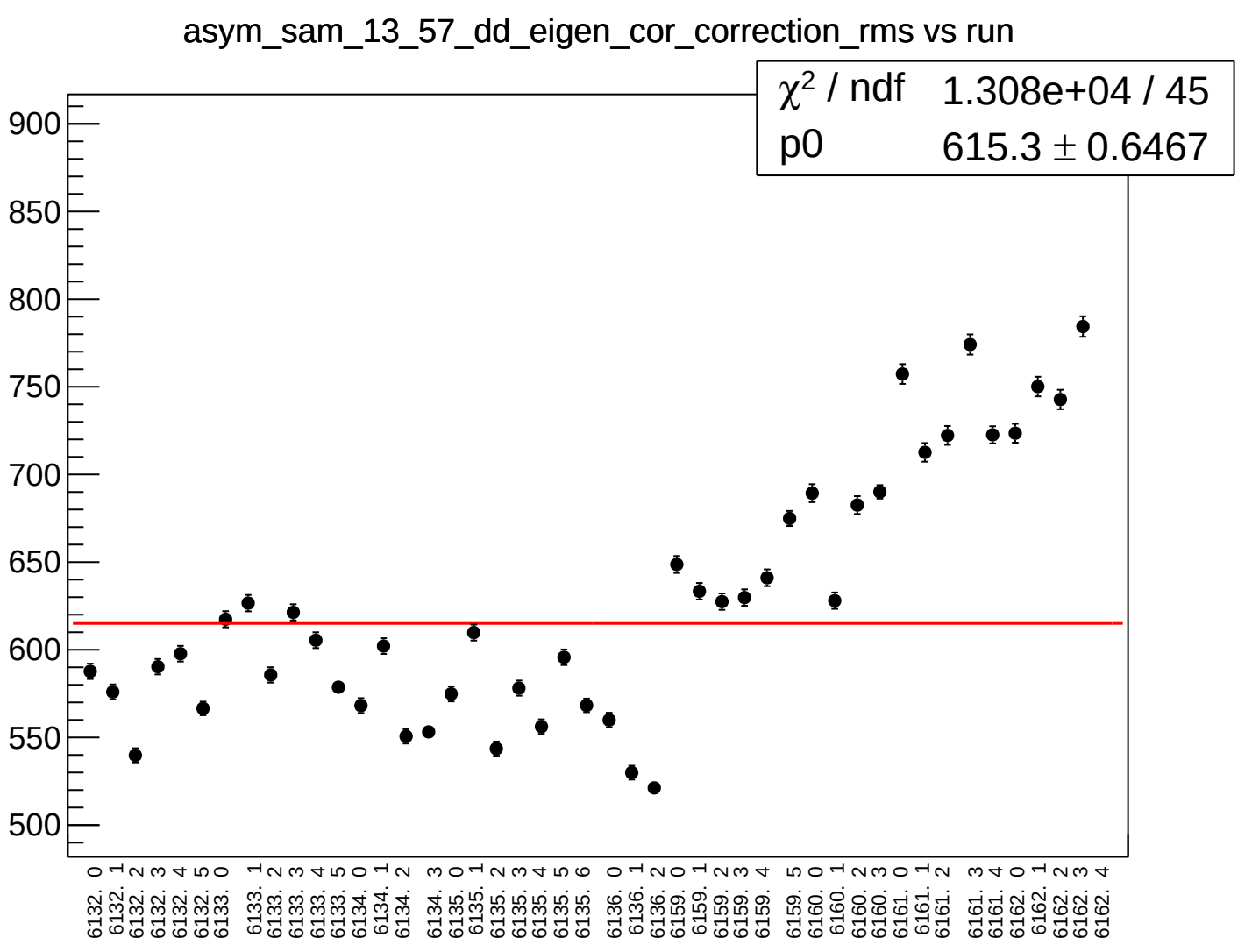
6162. 2
6162. 3
6162. 4


asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 44.09 / 45
p0 −20.64 ± 914.6
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −7498
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.0003771
Std Dev 0.979
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.308e+04 / 45
p0 615.3 ± 0.6467
900
850
800
750
700
650
600
550
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
6134. 3
6135. 0
6135. 1
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6135. 4
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6135. 6
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6159. 1
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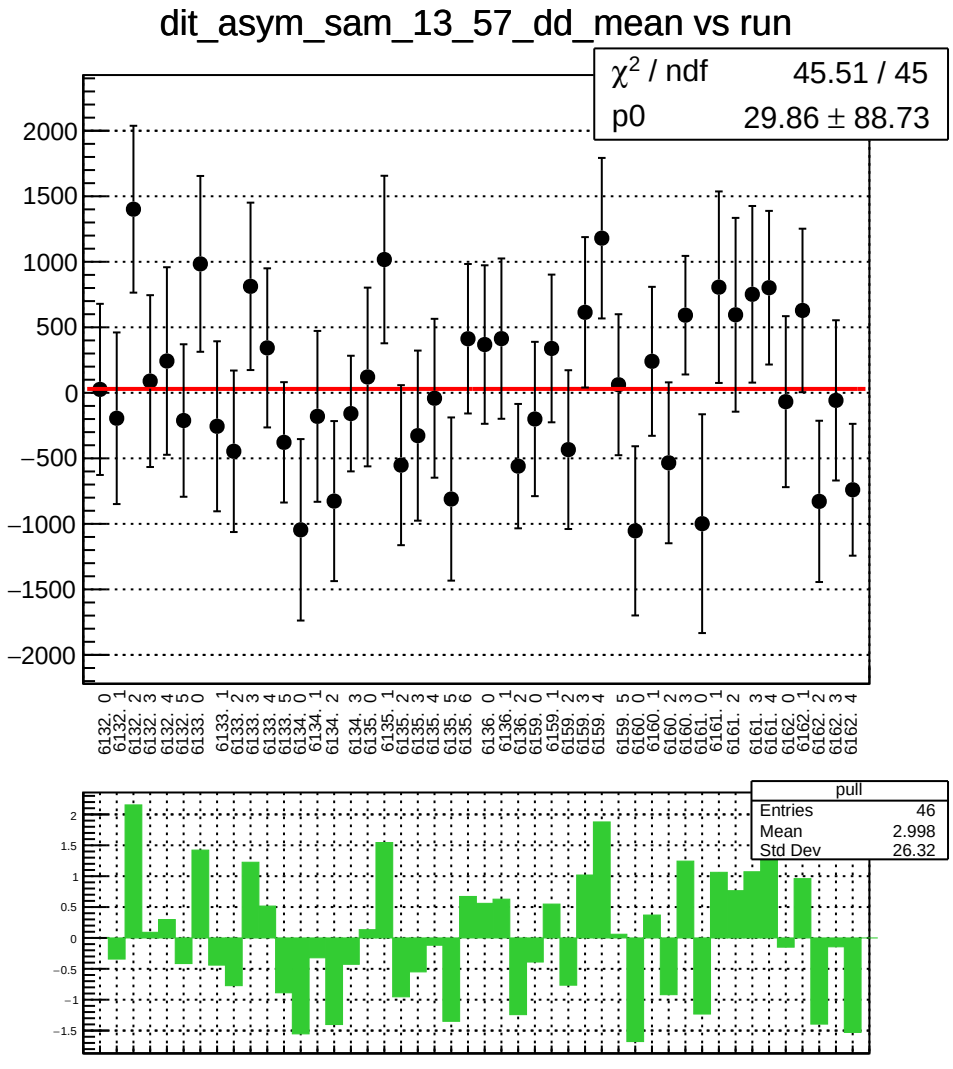
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 45.51 / 45
p0 29.86 ± 88.73
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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6135. 6
6136. 0
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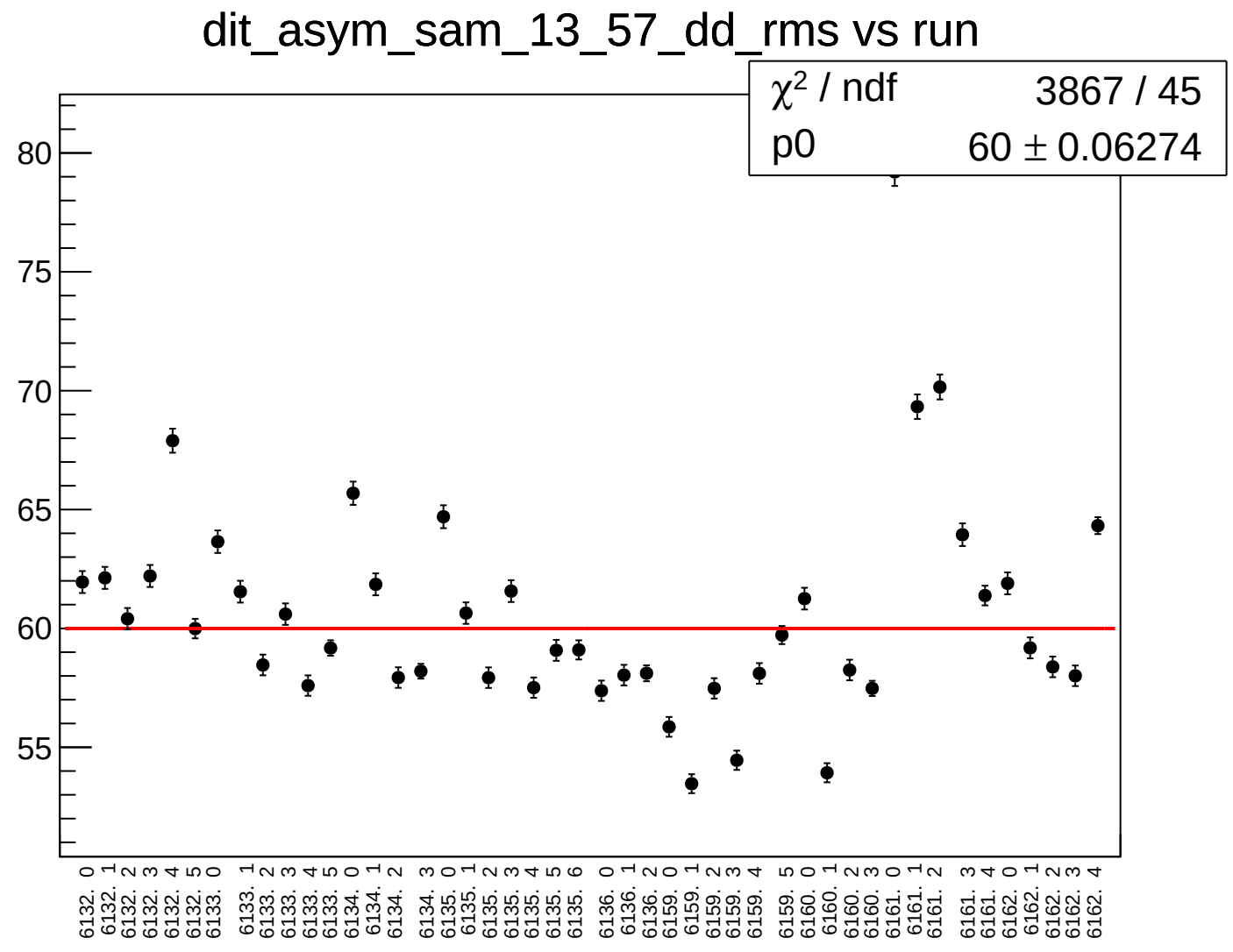
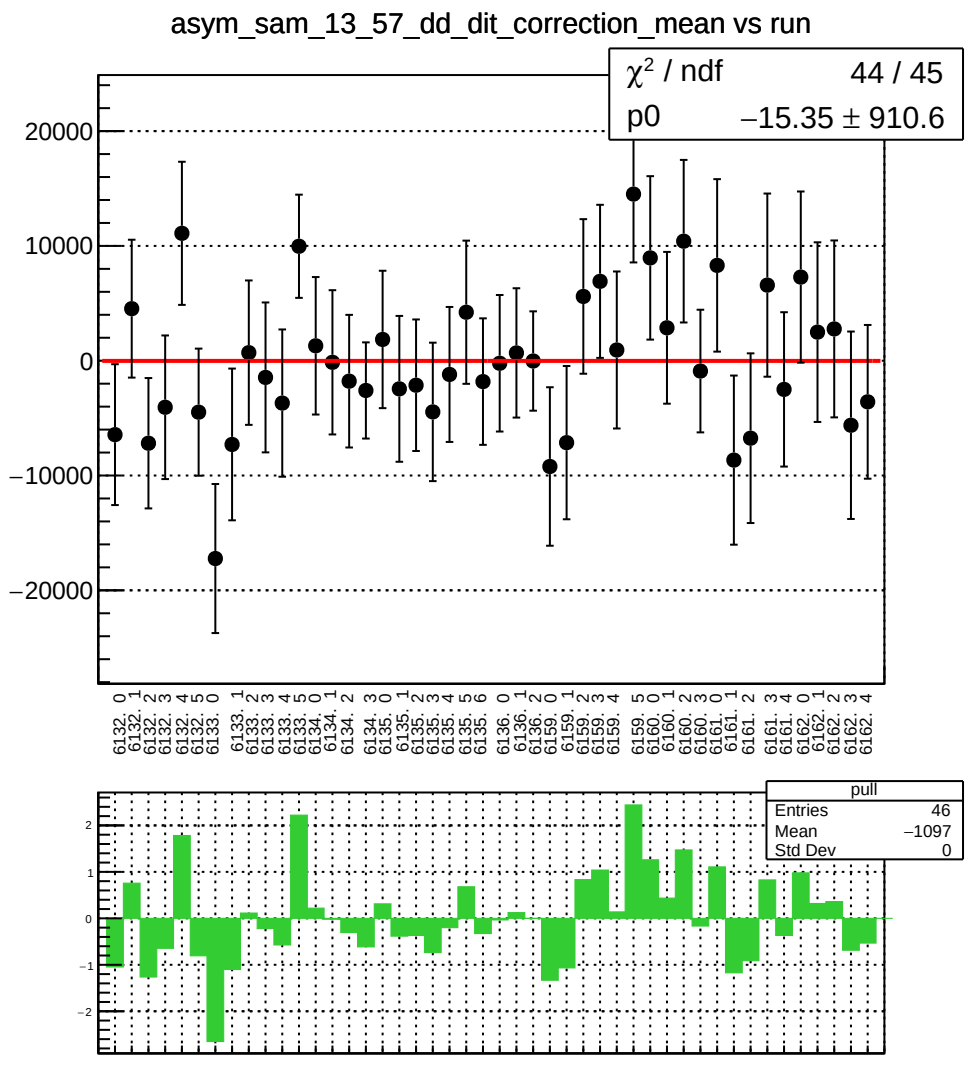
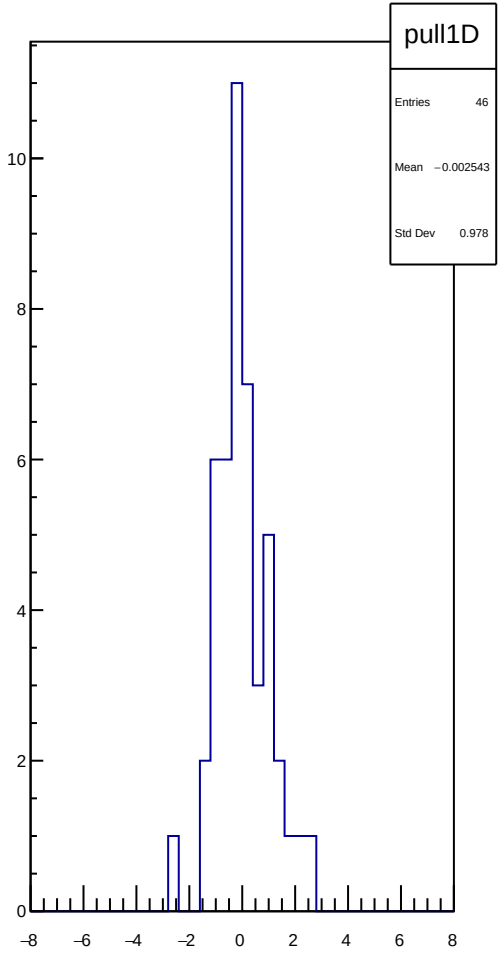
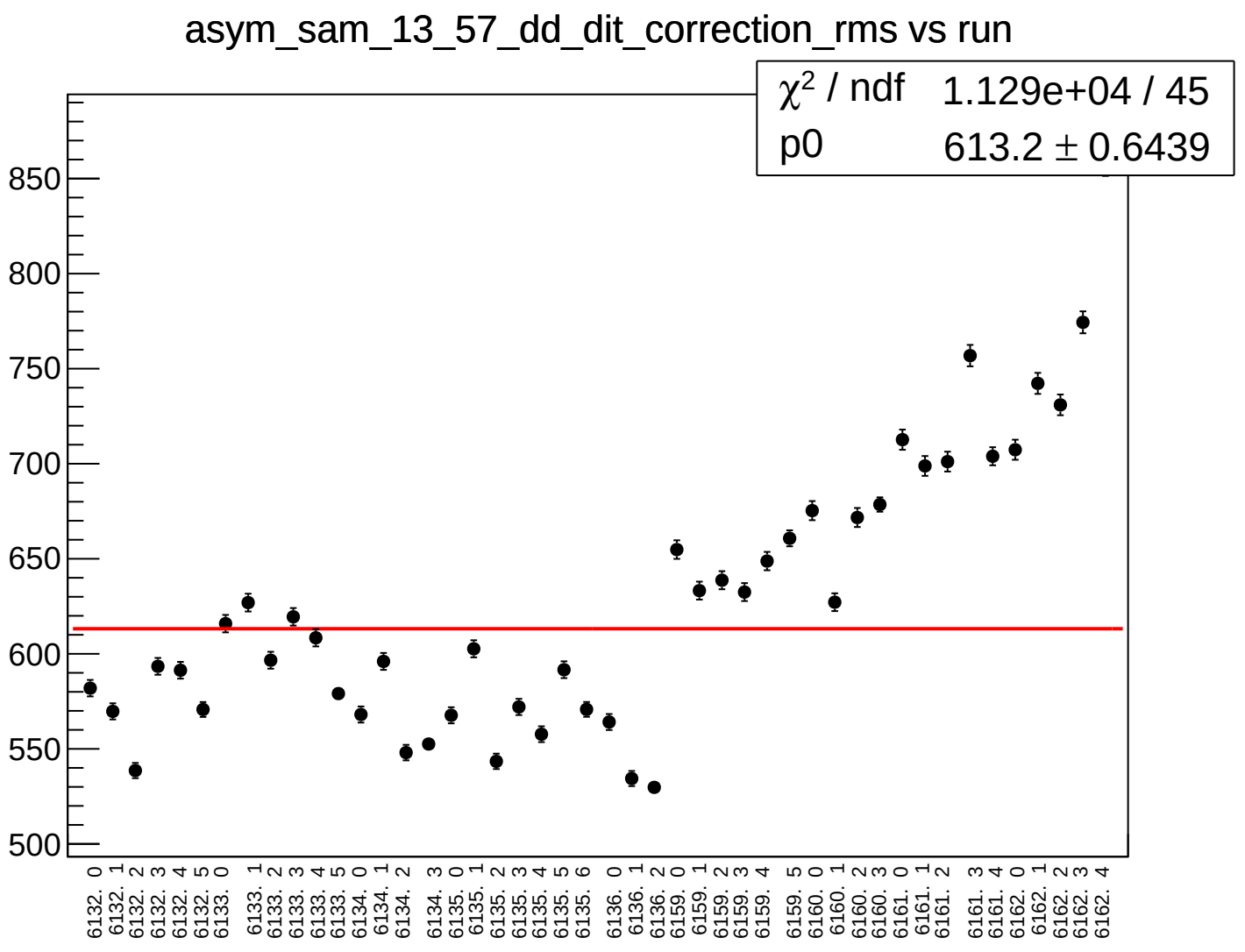
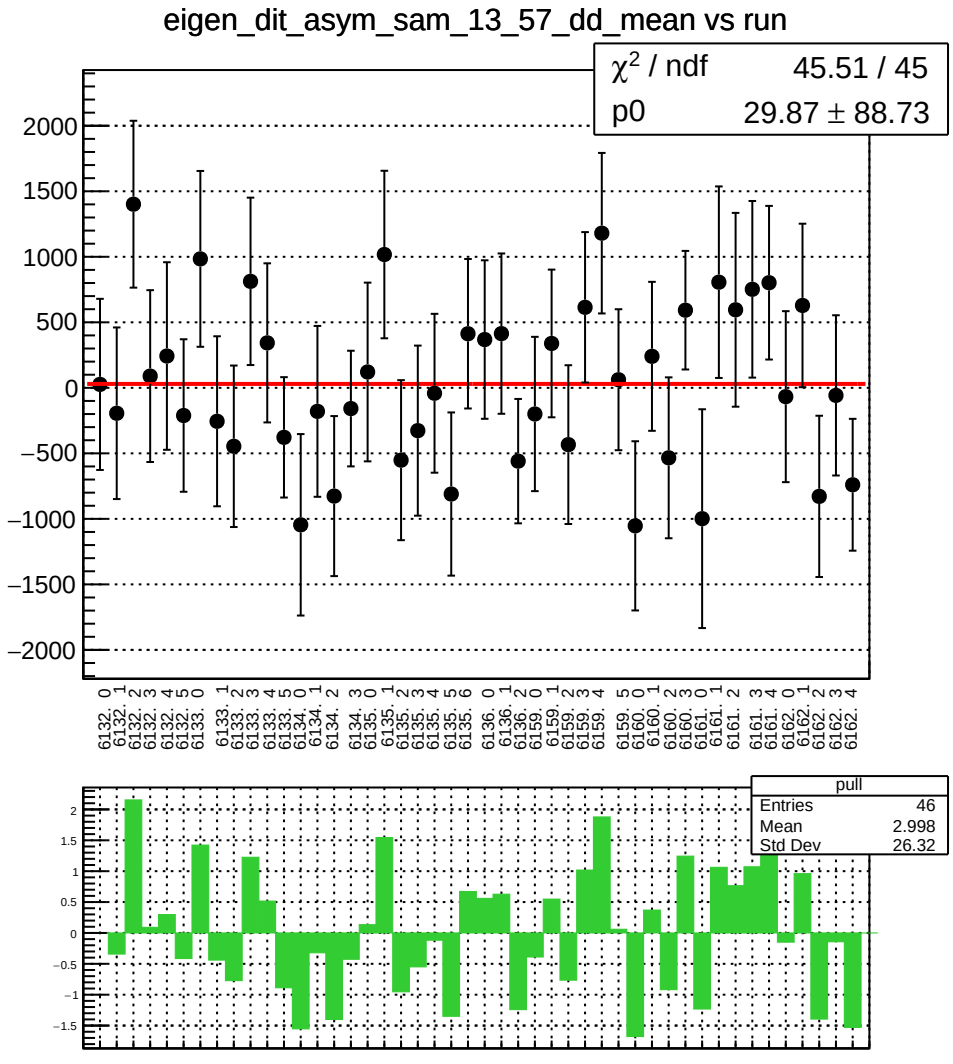
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 2.998
Std Dev 26.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.01222
Std Dev 0.9946
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

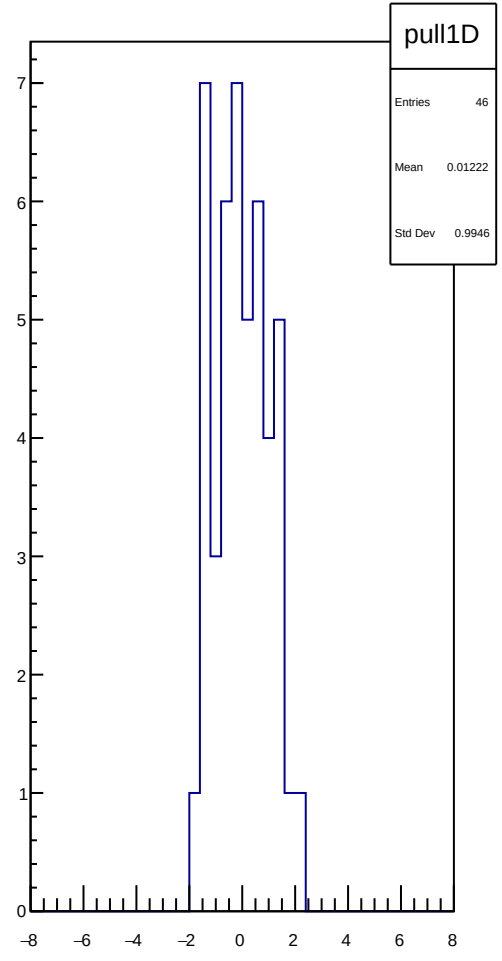

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 3867 / 45
p0 60 ± 0.06274
80
75
70
65
60
55
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

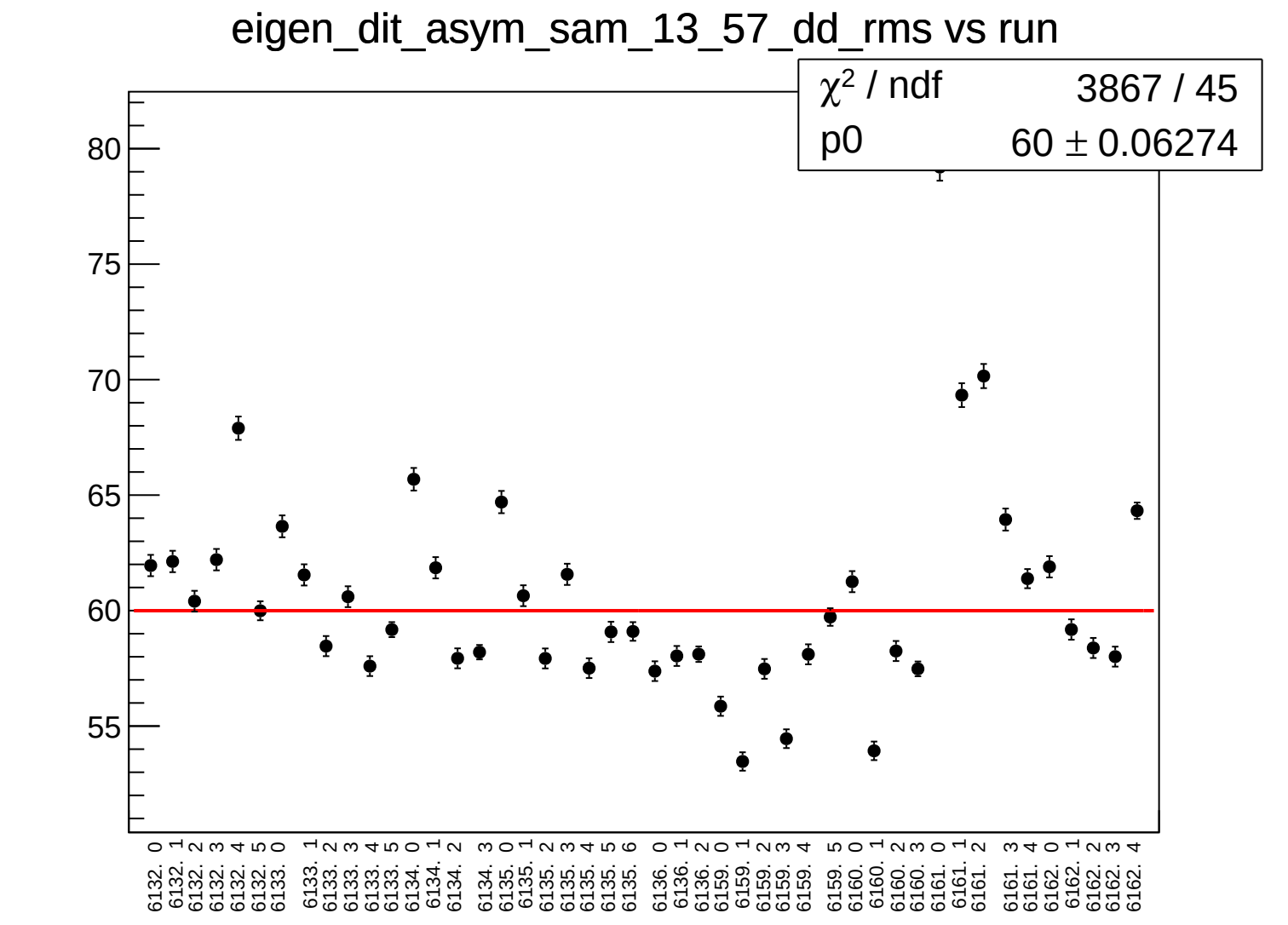

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 44 / 45
p0 −15.35 ± 910.6
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1097
Std Dev 0
2
1
0
−1
−2

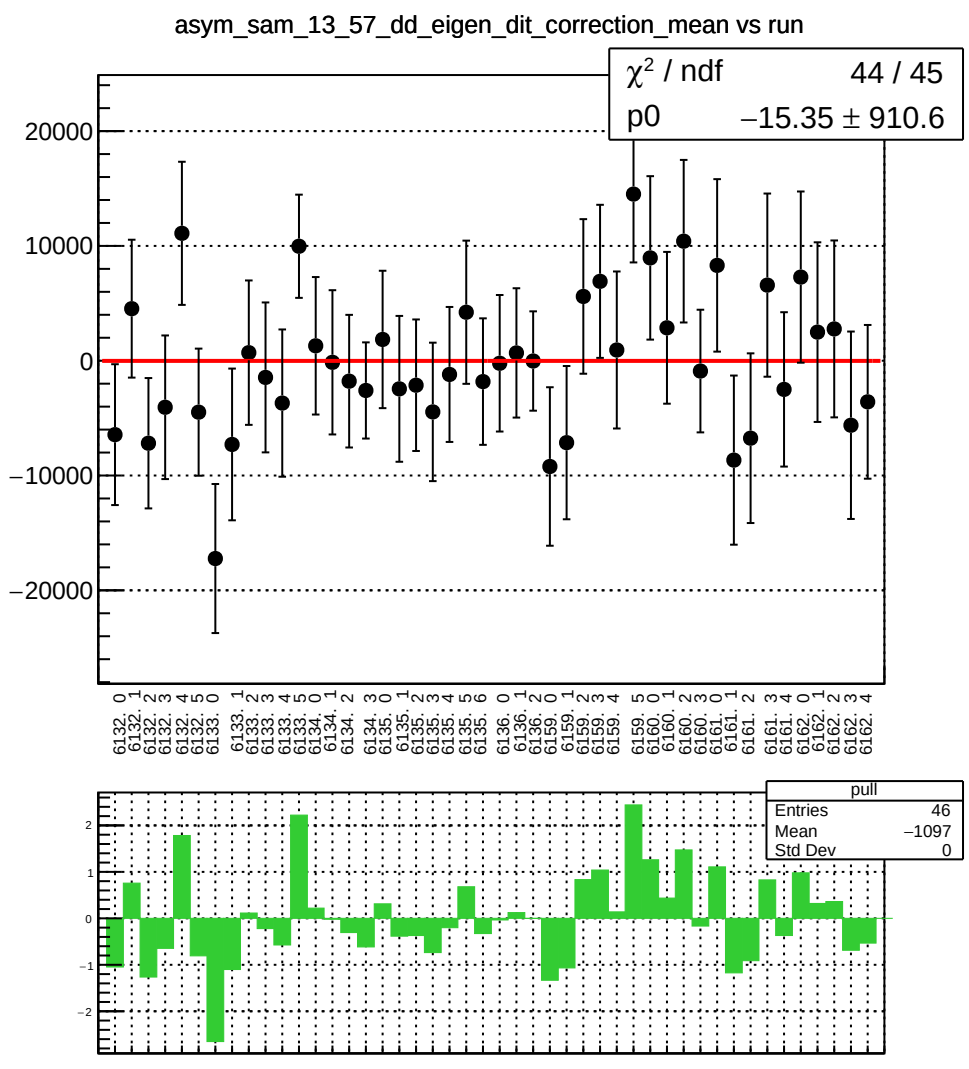

pull1D
Entries 46
Mean −0.002543
Std Dev 0.978
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

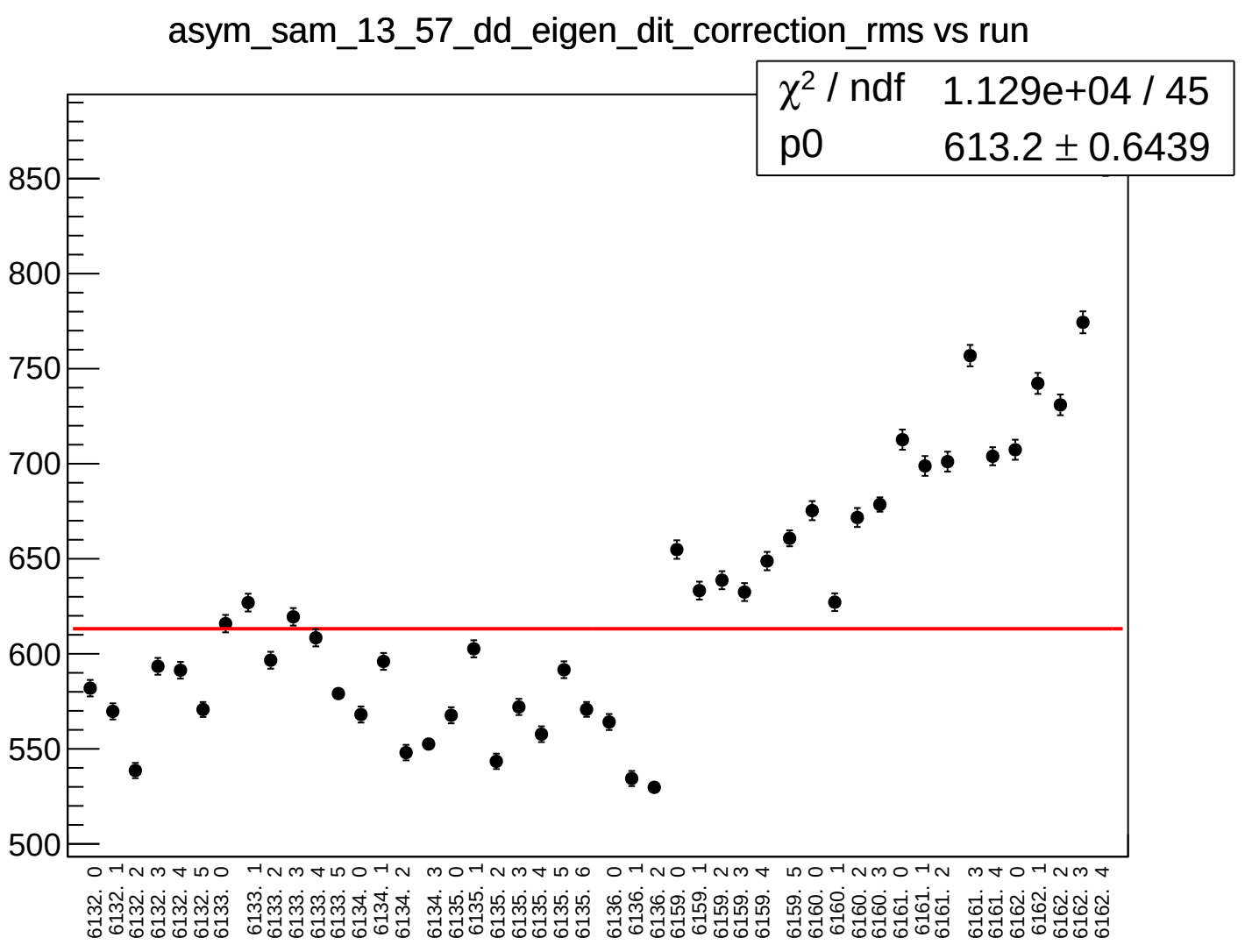

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 1.129e+04 / 45
p0 613.2 ± 0.6439
850
800
750
700
650
600
550
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

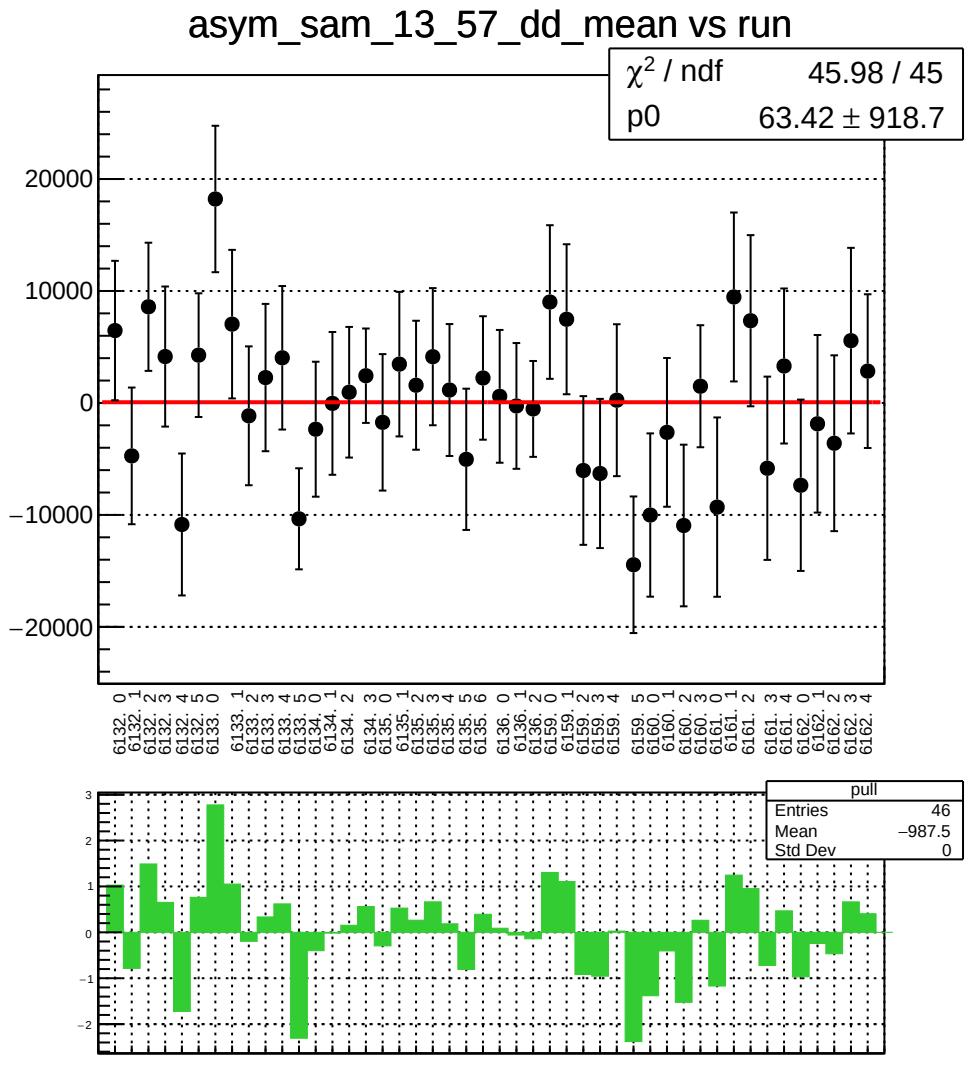

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 45.51 / 45
p0 29.87 ± 88.73
pull
Entries 46
Mean 2.998
Std Dev 26.32

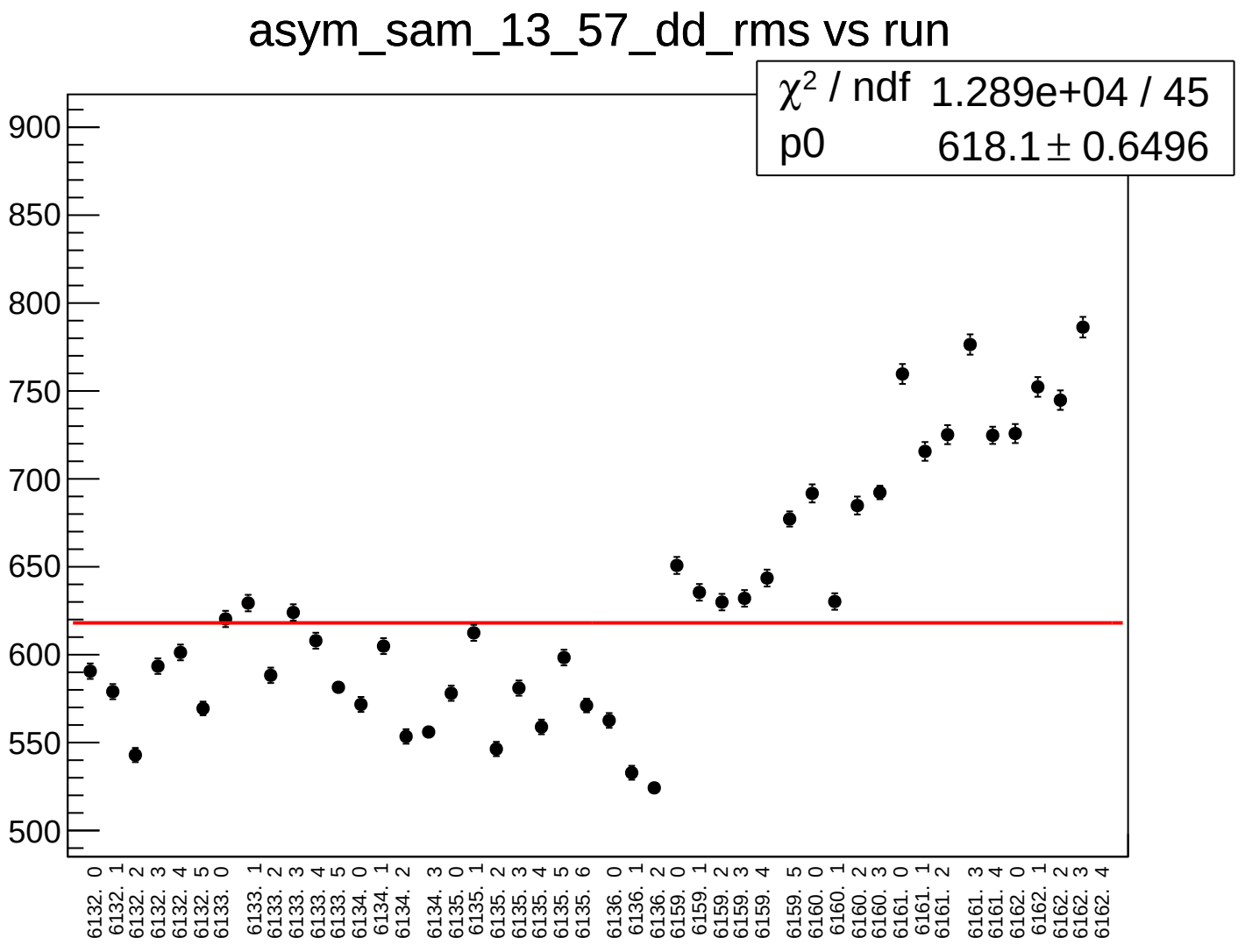

pull1D
Entries 46
Mean 0.01222
Std Dev 0.9946

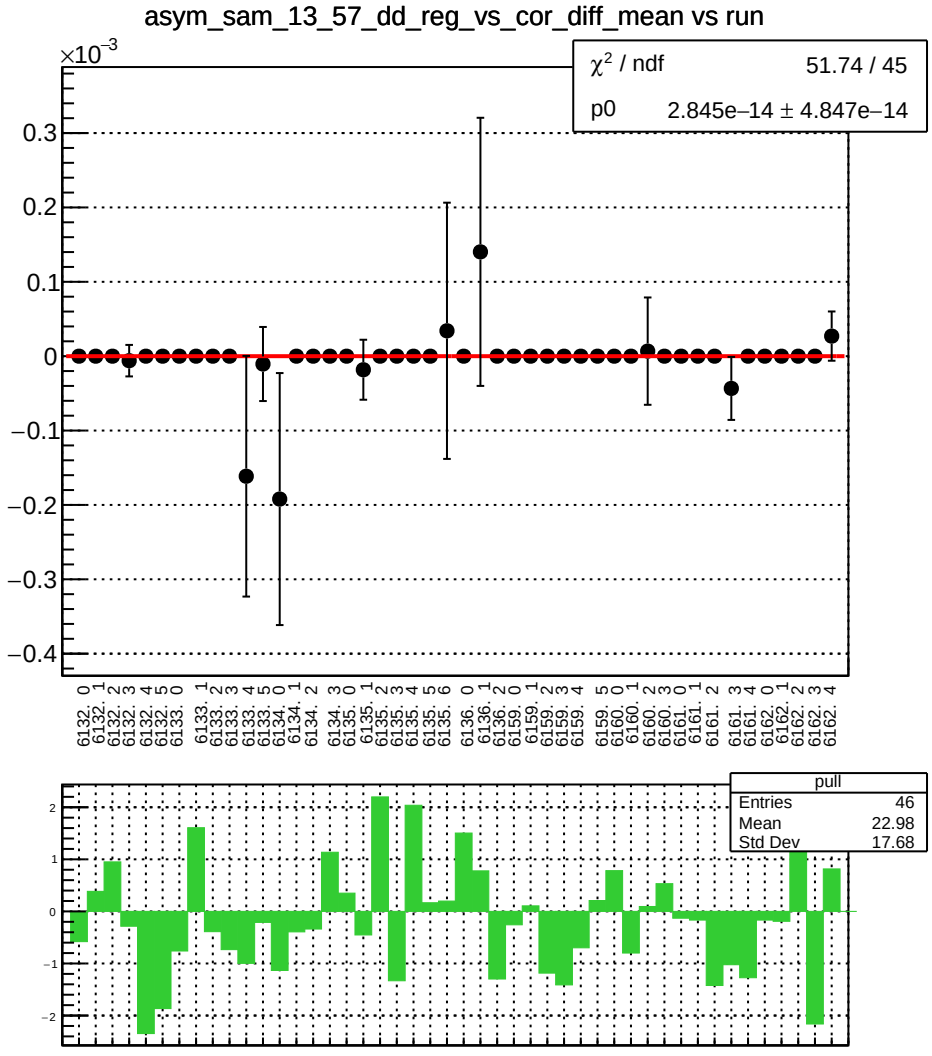

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 3867 / 45
p0 60 ± 0.06274
80
75
70
65
60
55
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

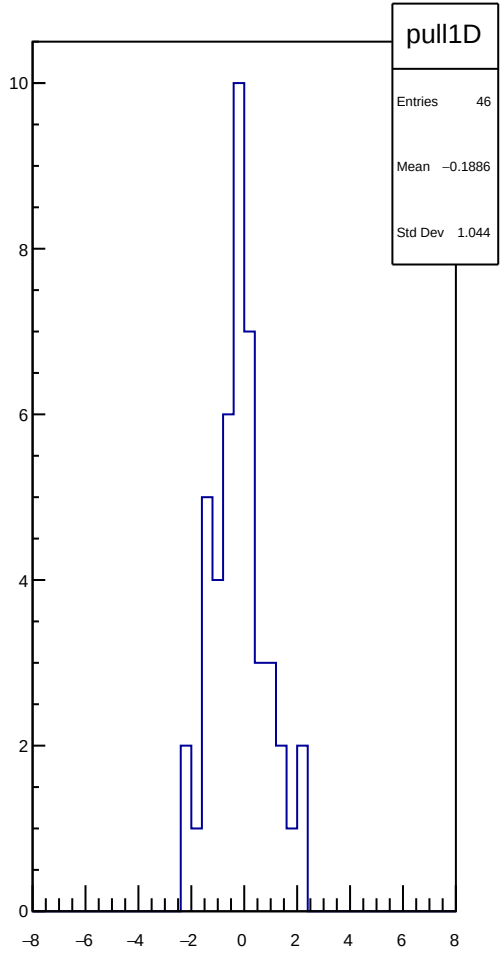

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 44 / 45
p0 −15.35 ± 910.6
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1097
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.002543
Std Dev 0.978
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

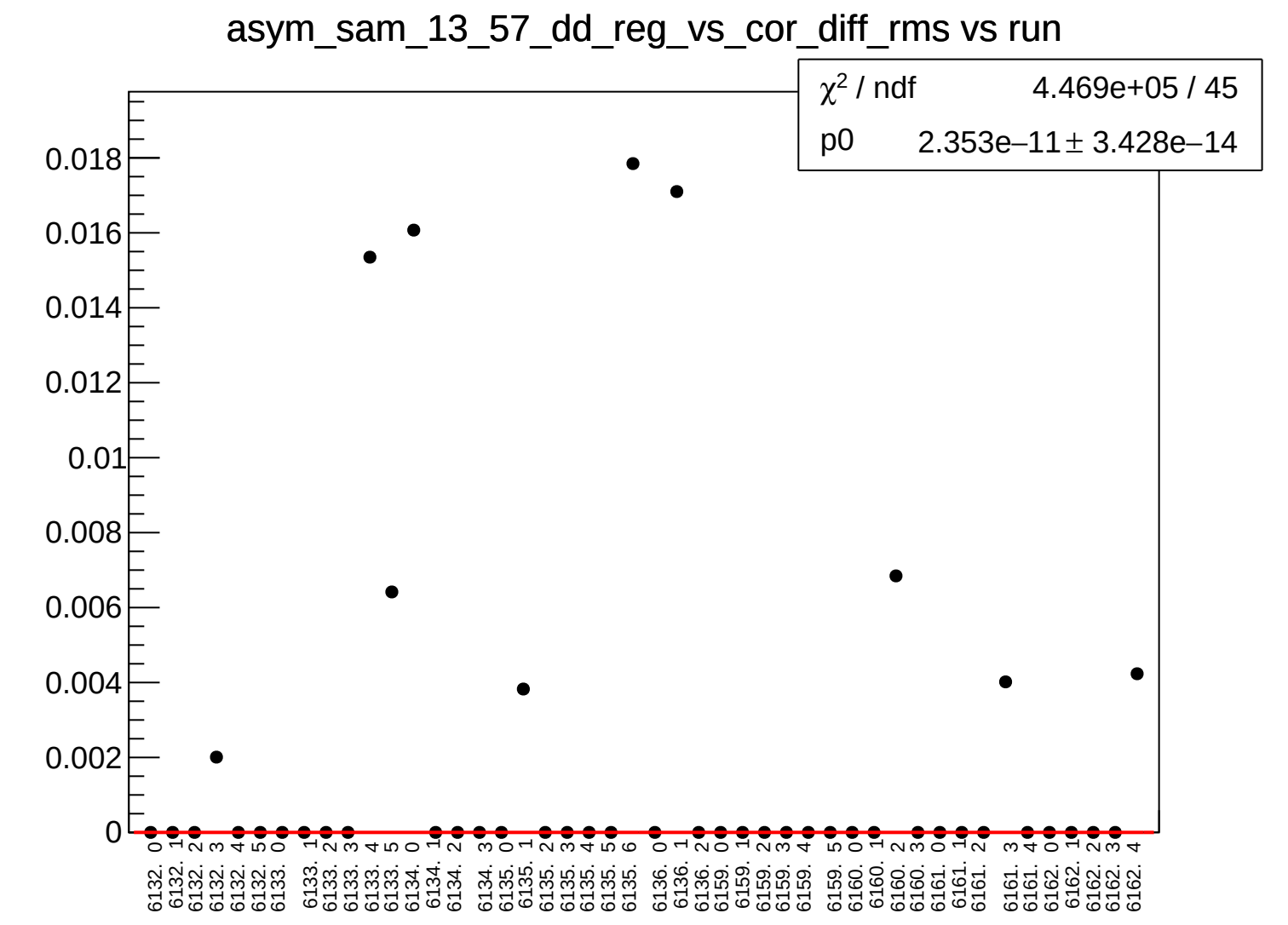

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.129e+04 / 45
p0 613.2 ± 0.6439
850
800
750
700
650
600
550
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

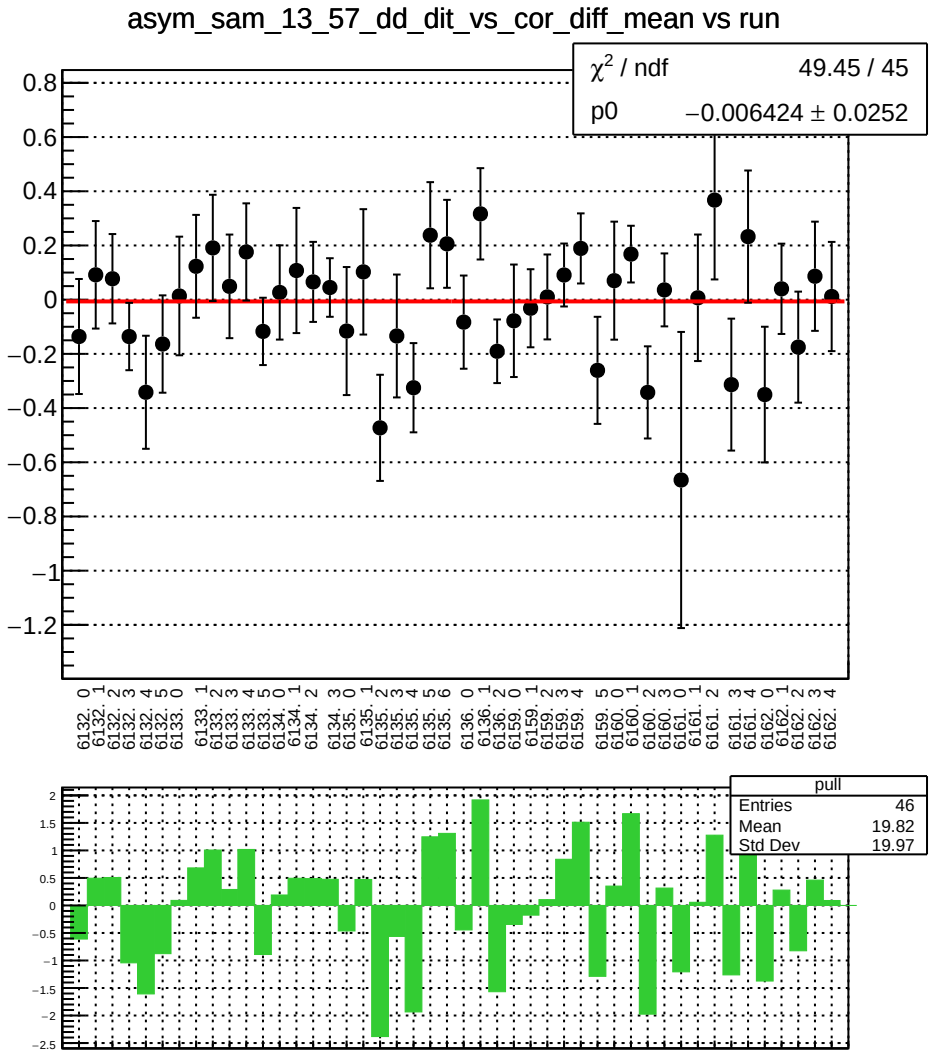

asym_sam_13_57_dd_mean vs run
χ² / ndf 45.98 / 45
p0 63.42 ± 918.7
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −987.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.002804
Std Dev 0.9998
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

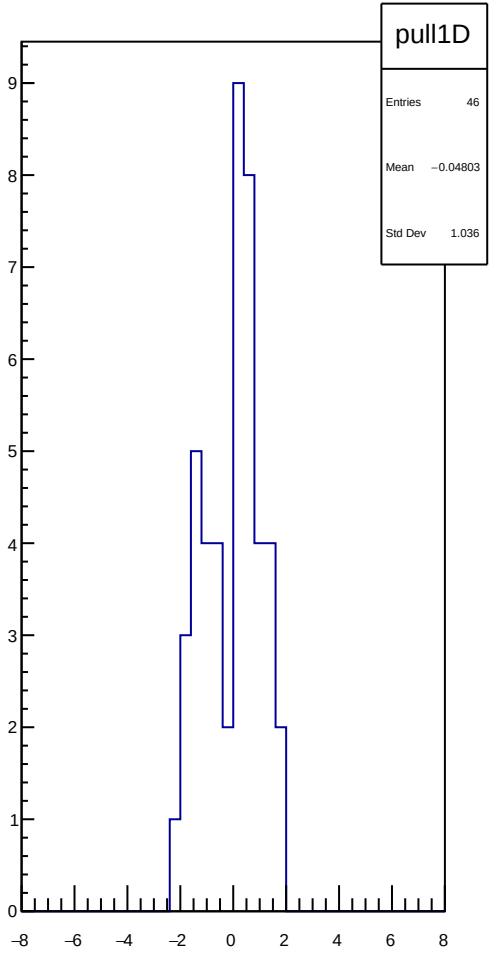

asym_sam_13_57_dd_rms vs run
χ² / ndf 1.289e+04 / 45
p0 618.1 ± 0.6496
900
850
800
750
700
650
600
550
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

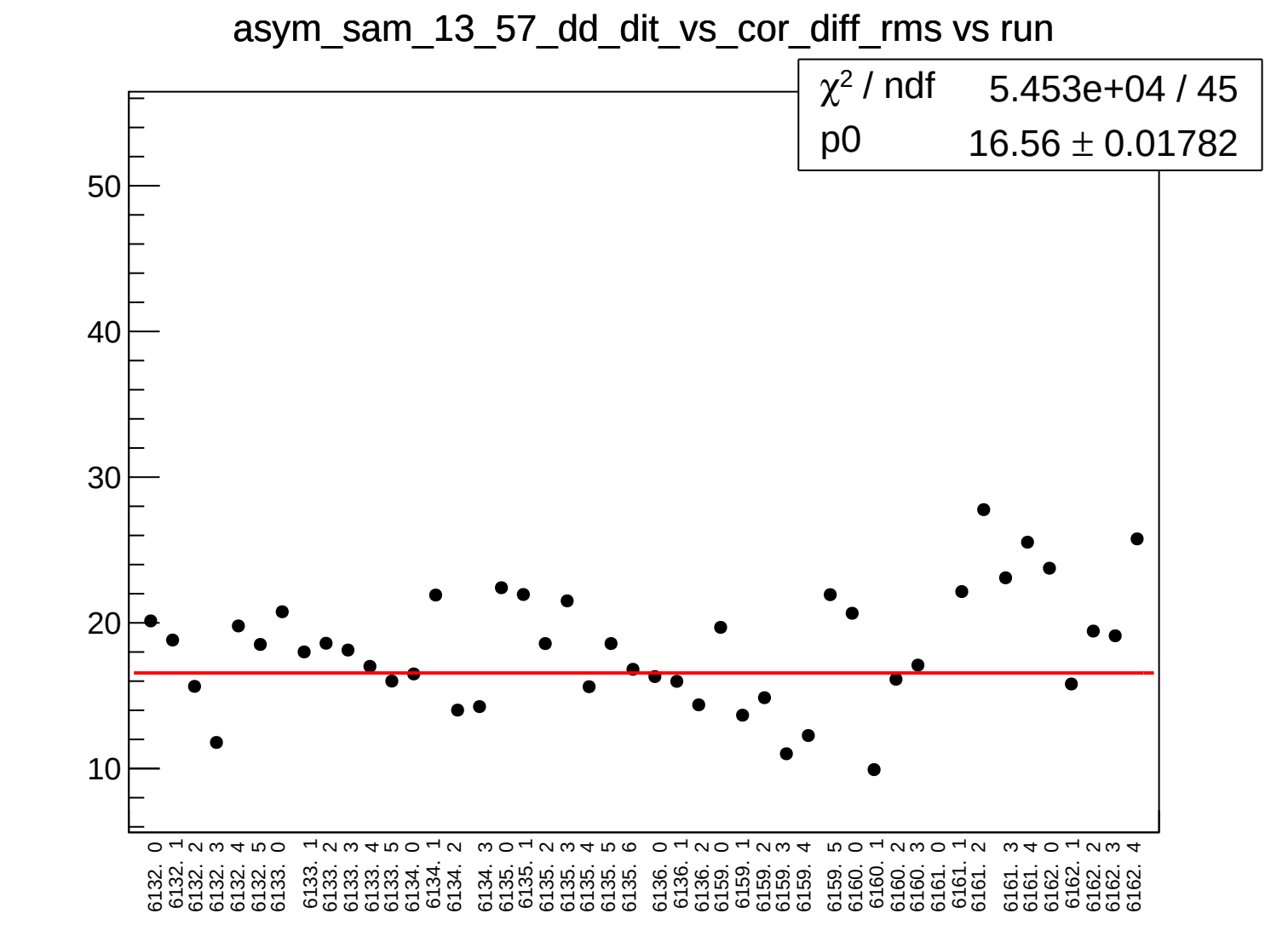

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 51.74 / 45
p0 2.845e−14 ± 4.847e−14
pull
Entries 46
Mean 22.98
Std Dev 17.68

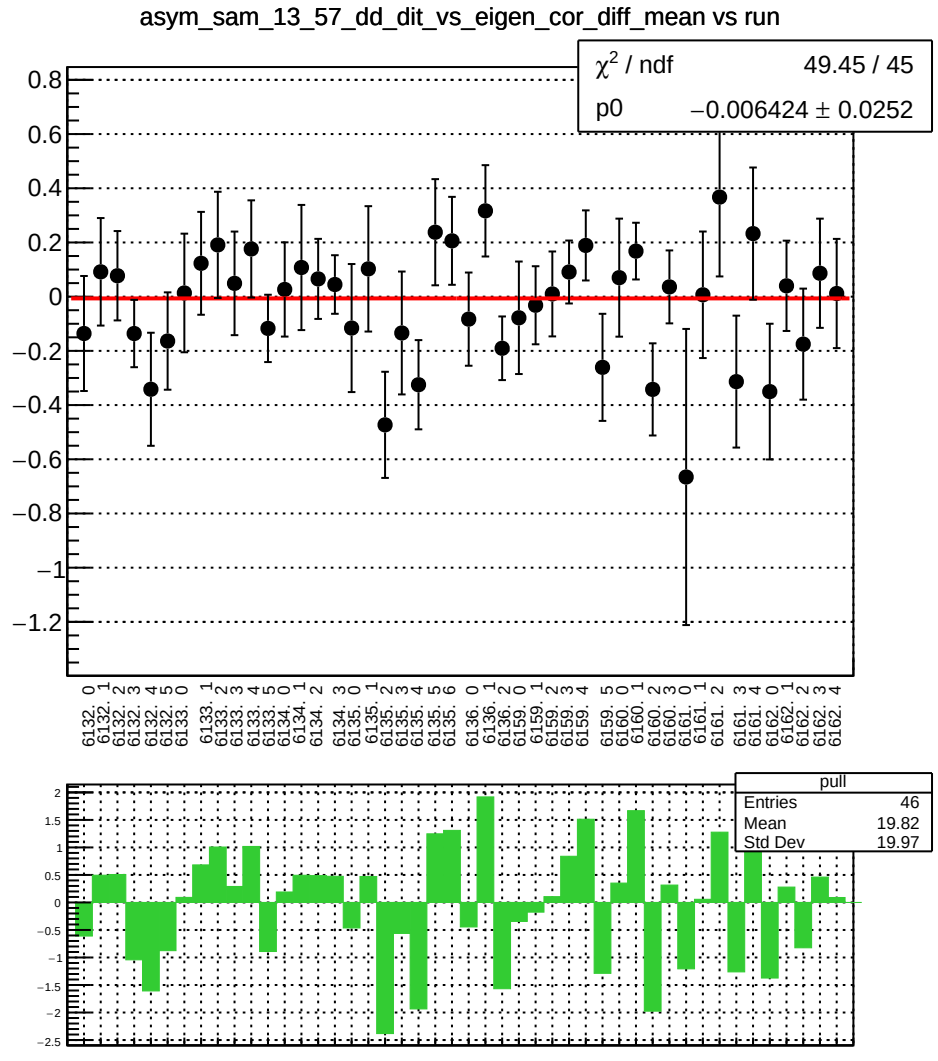

pull1D
Entries 46
Mean −0.1886
Std Dev 1.044

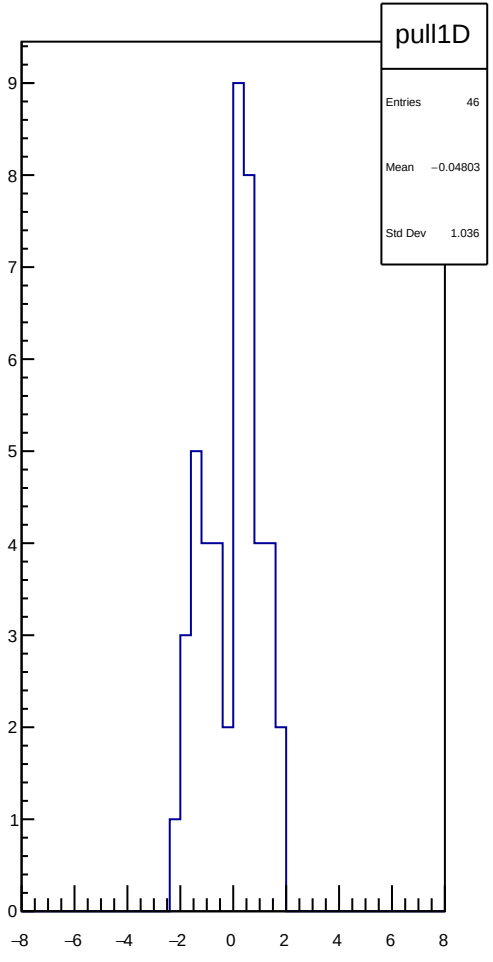

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.469e+05 / 45
p0 2.353e−11 ± 3.428e−14
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

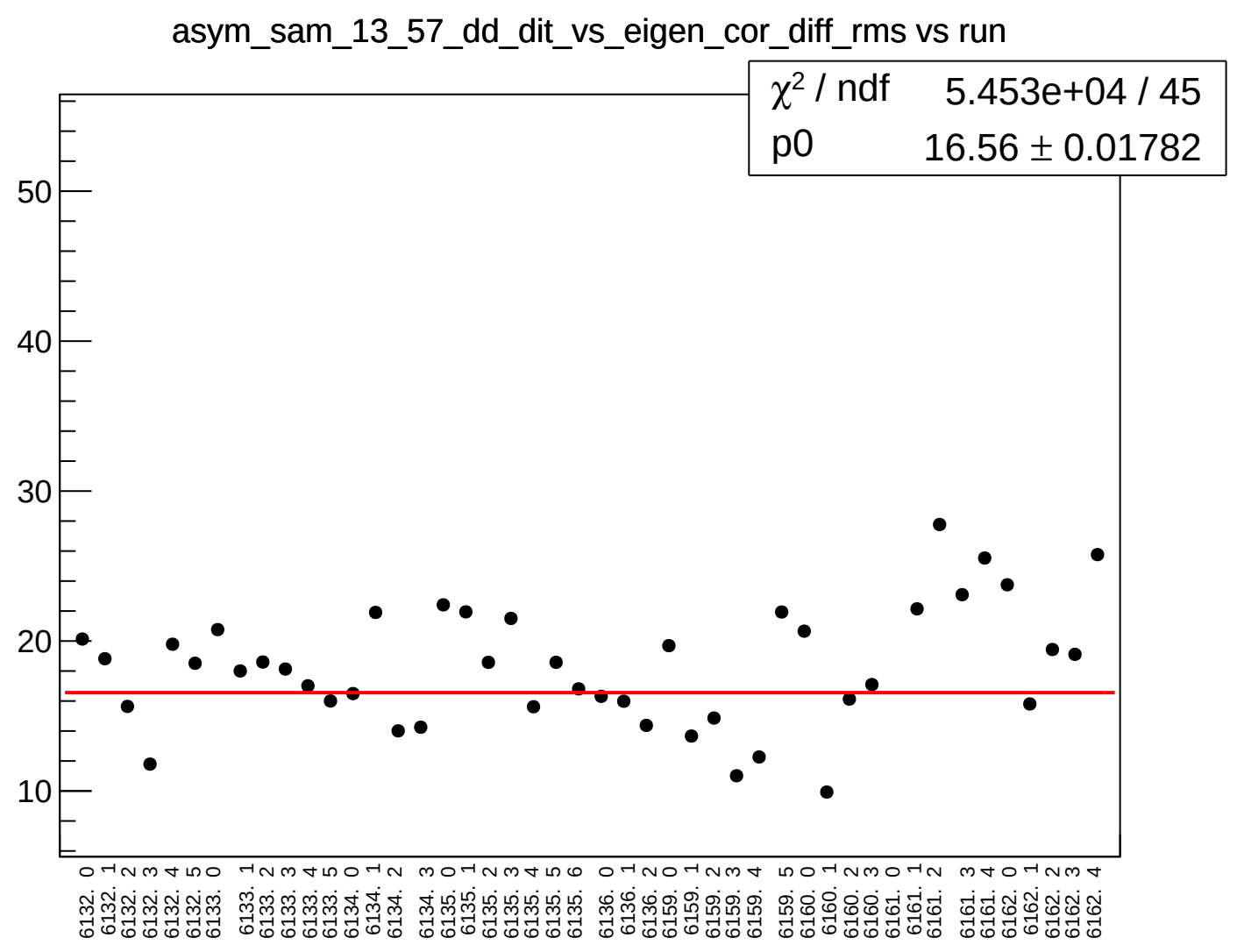

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 49.45 / 45
p0 −0.006424 ± 0.0252
pull
Entries 46
Mean 19.82
Std Dev 19.97

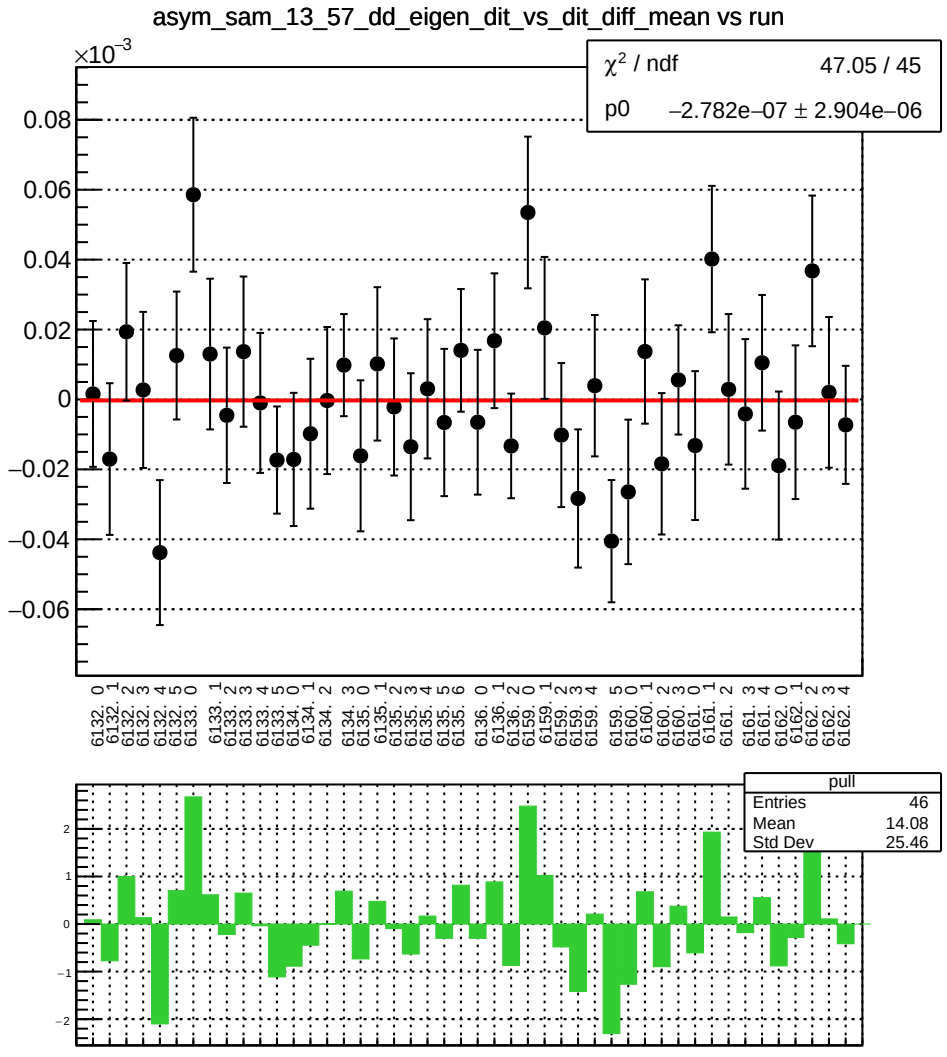

pull1D
Entries 46
Mean −0.04803
Std Dev 1.036

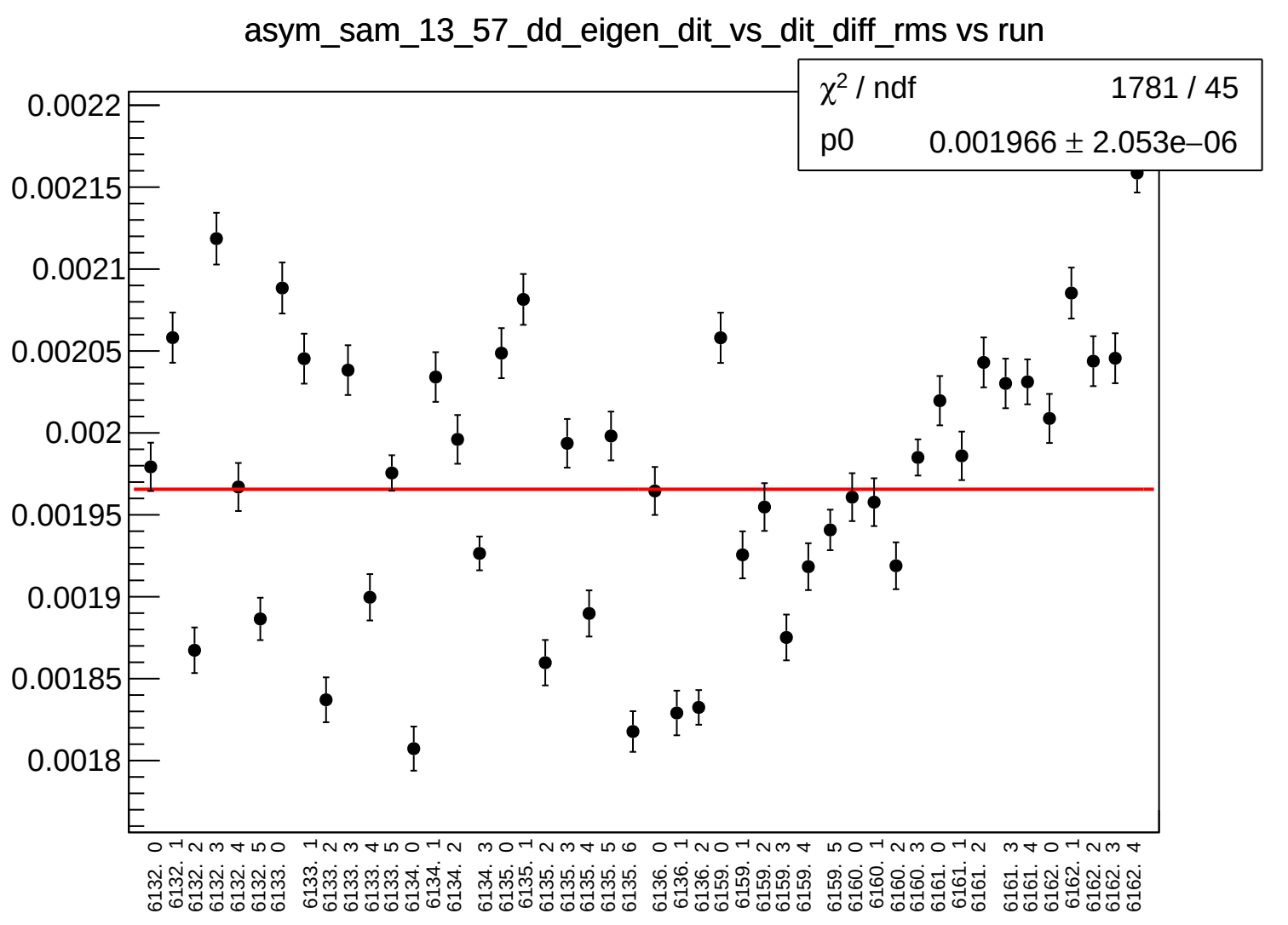

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.453e+04 / 45
p0 16.56 ± 0.01782
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

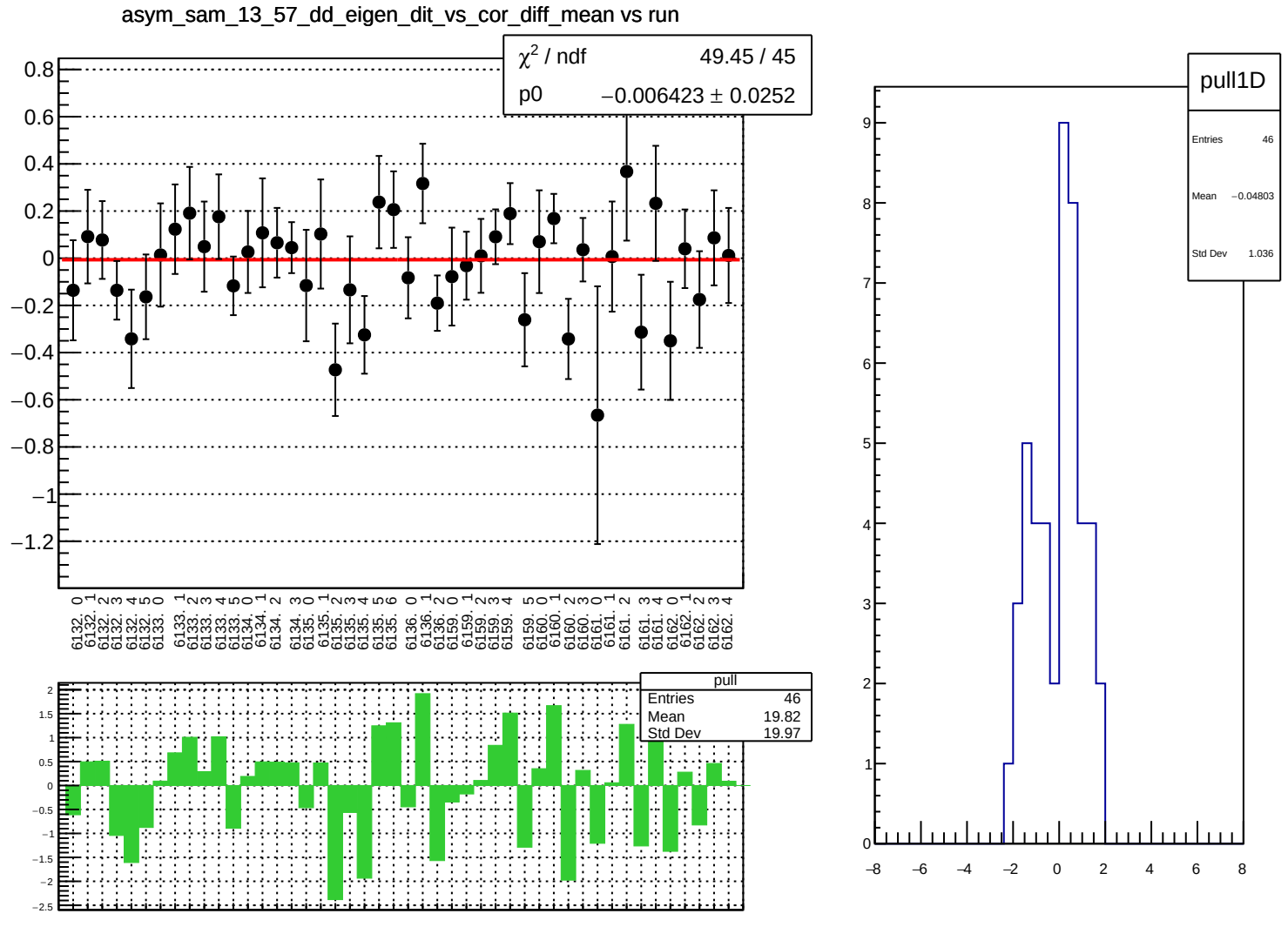

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.45 / 45
p0 −0.006424 ± 0.0252
pull
Entries 46
Mean 19.82
Std Dev 19.97

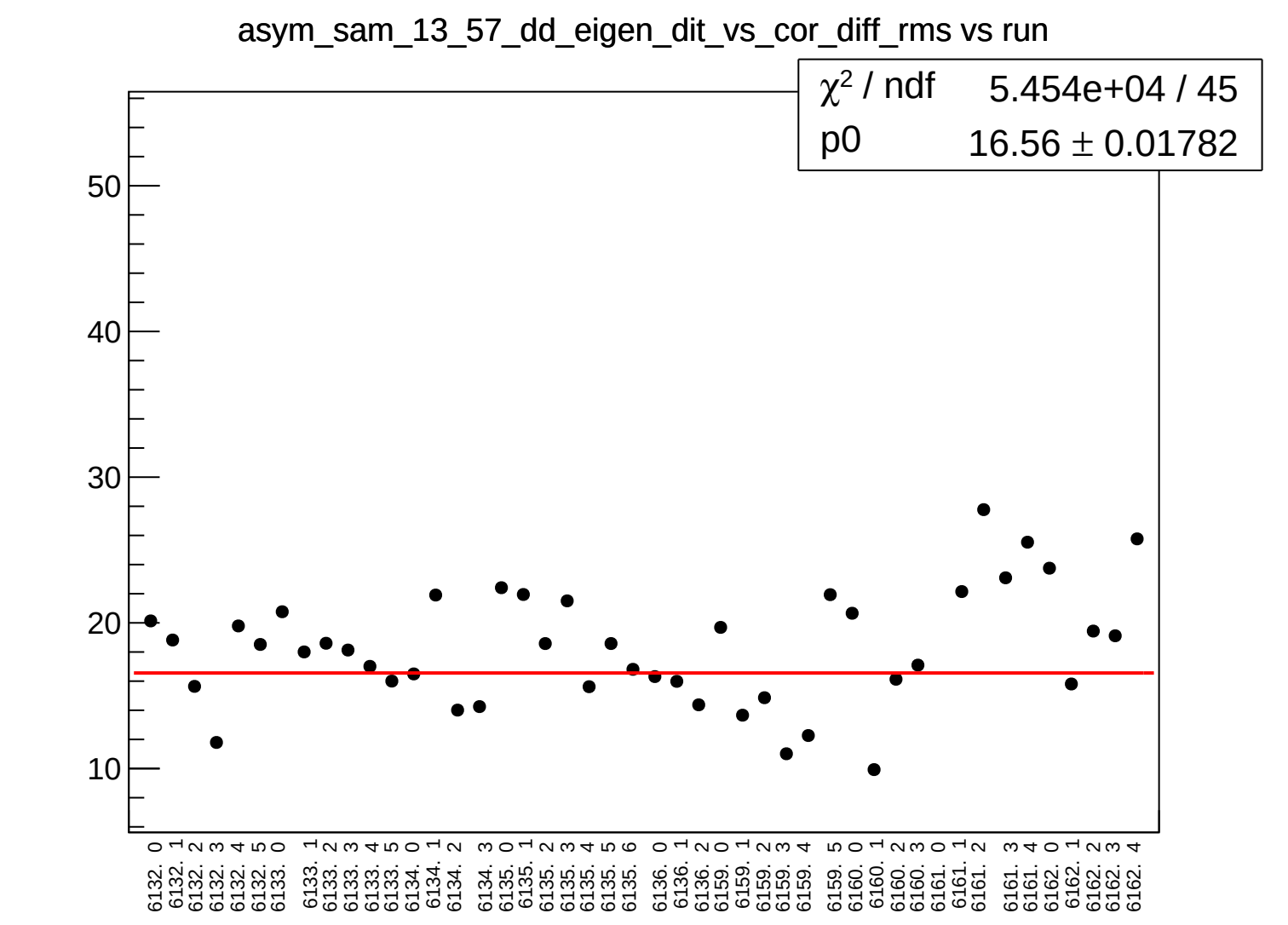

pull1D
Entries 46
Mean −0.04803
Std Dev 1.036


asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.453e+04 / 45
p0 16.56 ± 0.01782
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 47.05 / 45
p0 −2.782e−07 ± 2.904e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 14.08
Std Dev 25.46
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.01941
Std Dev 1.011
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1781 / 45
p0 0.001966 ± 2.053e−06
0.0022
0.00215
0.0021
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 49.45 / 45
p0 −0.006423 ± 0.0252
pull
Entries 46
Mean 19.82
Std Dev 19.97
pull1D
Entries 46
Mean −0.04803
Std Dev 1.036


asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.454e+04 / 45
p0 16.56 ± 0.01782
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
6161. 3
6161. 4
6162. 0
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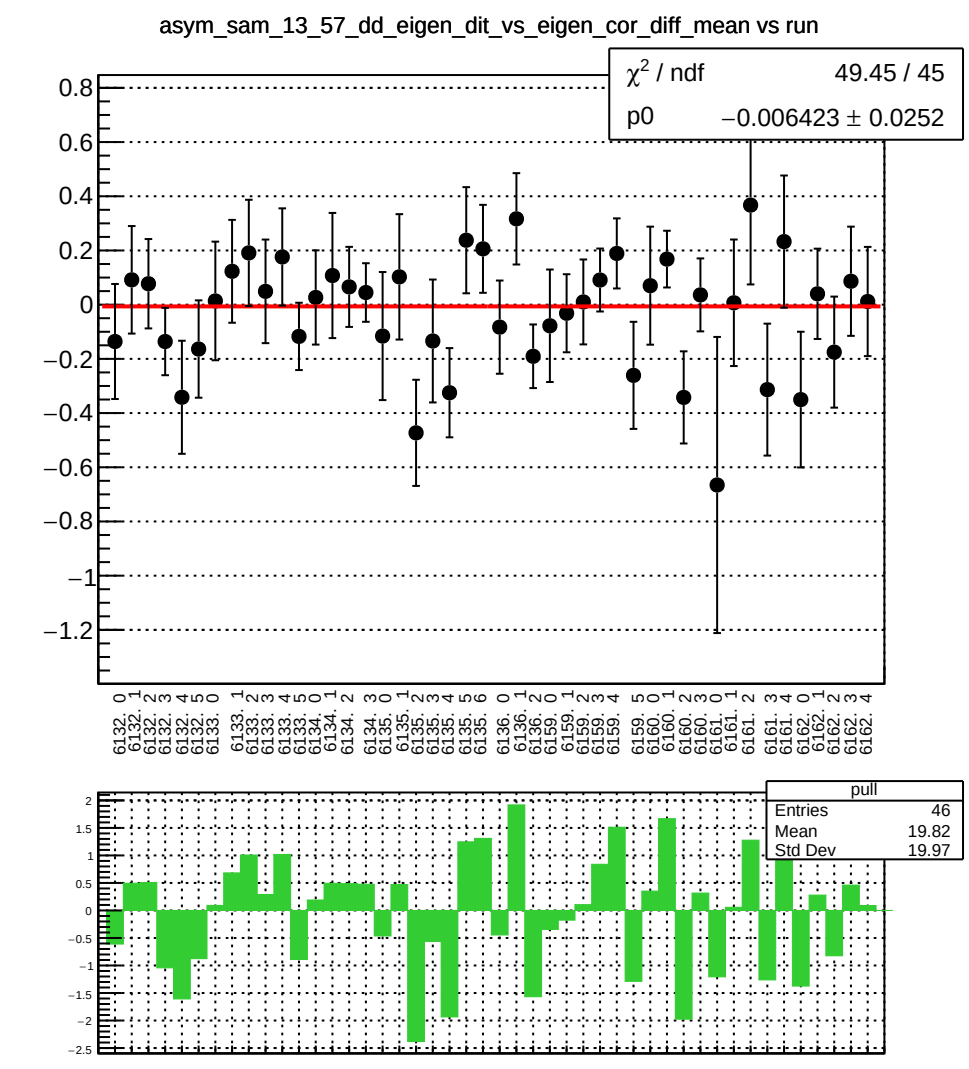
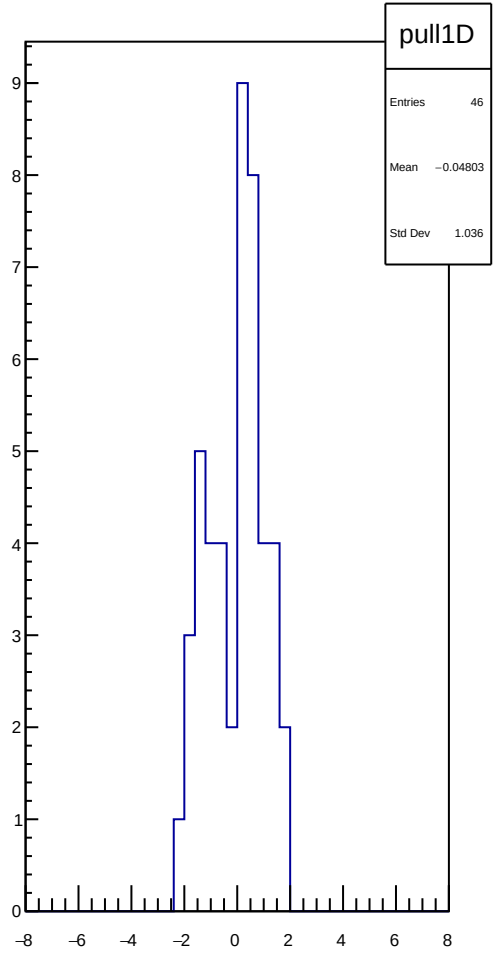
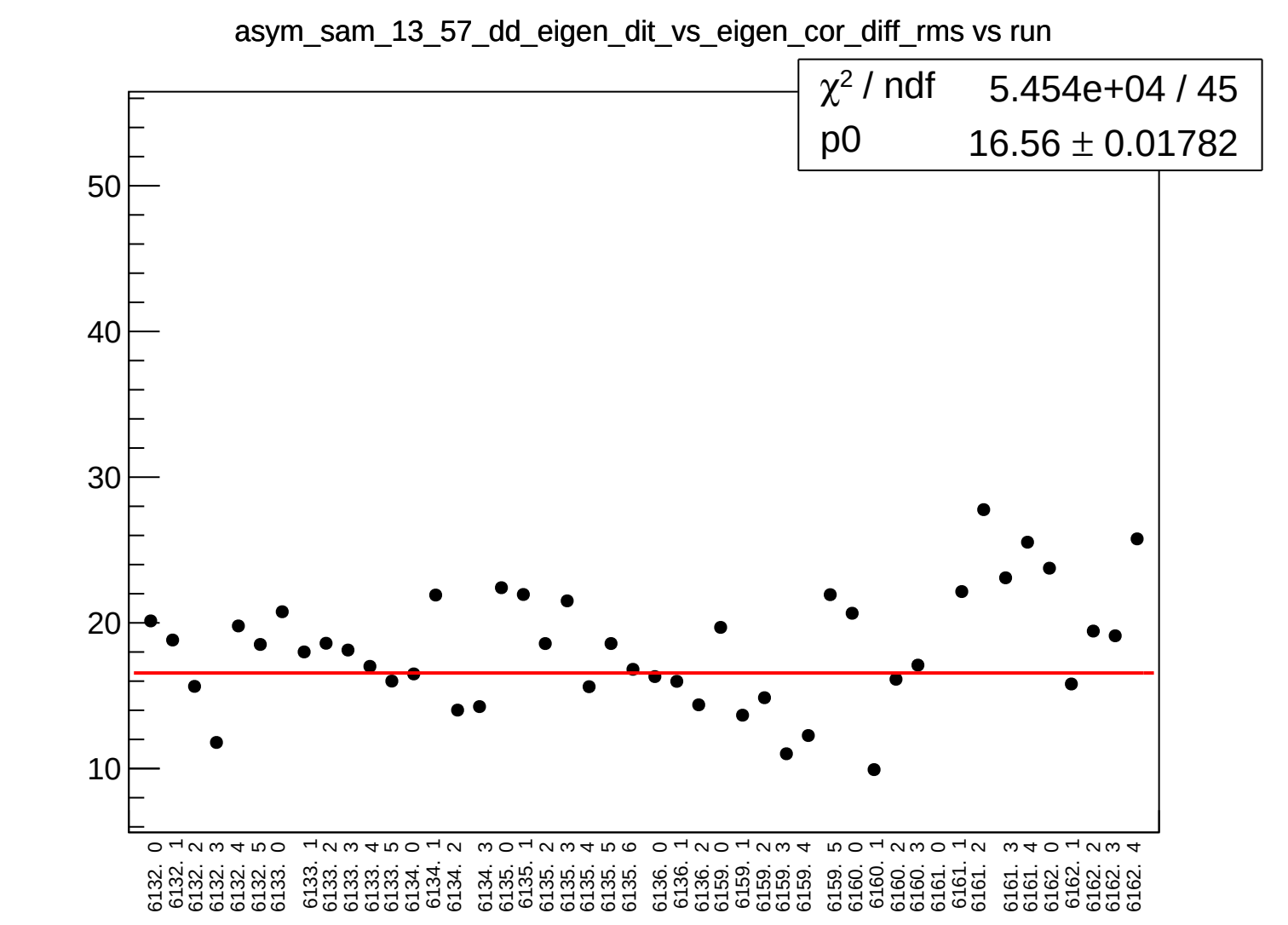
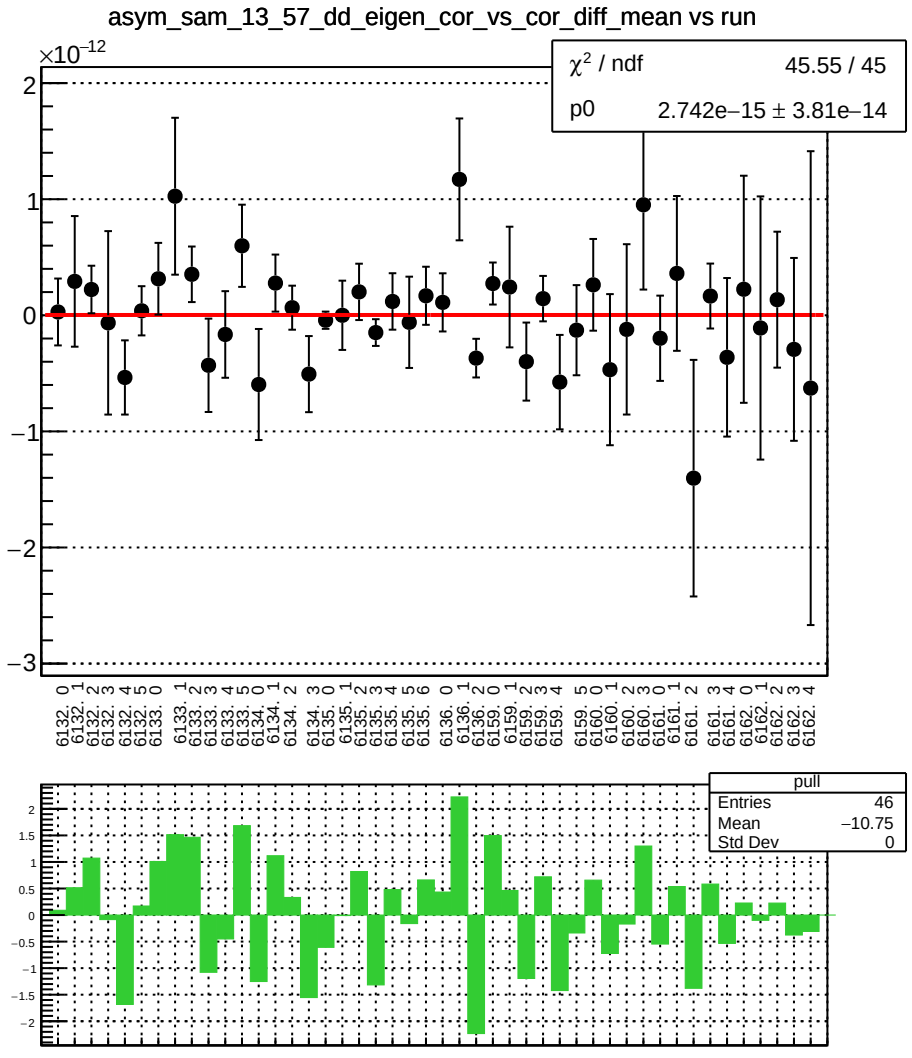
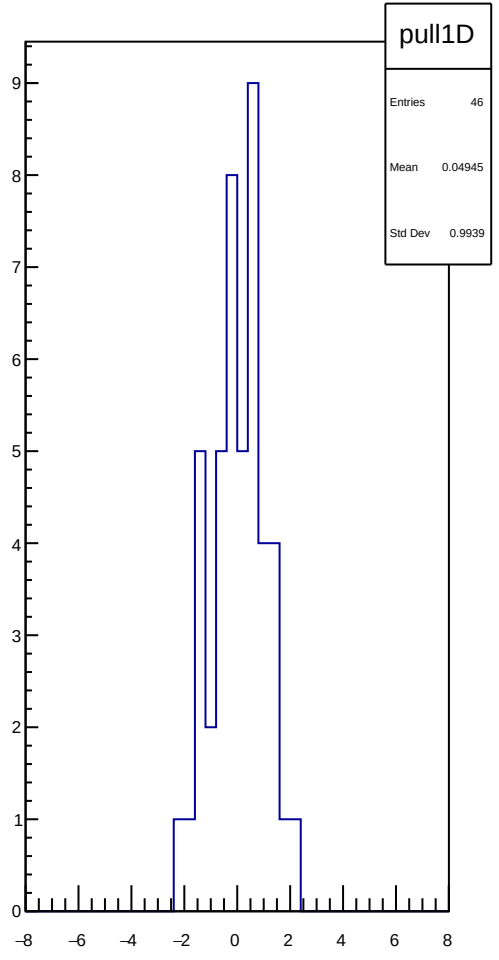
6162. 2
6162. 3
6162. 4

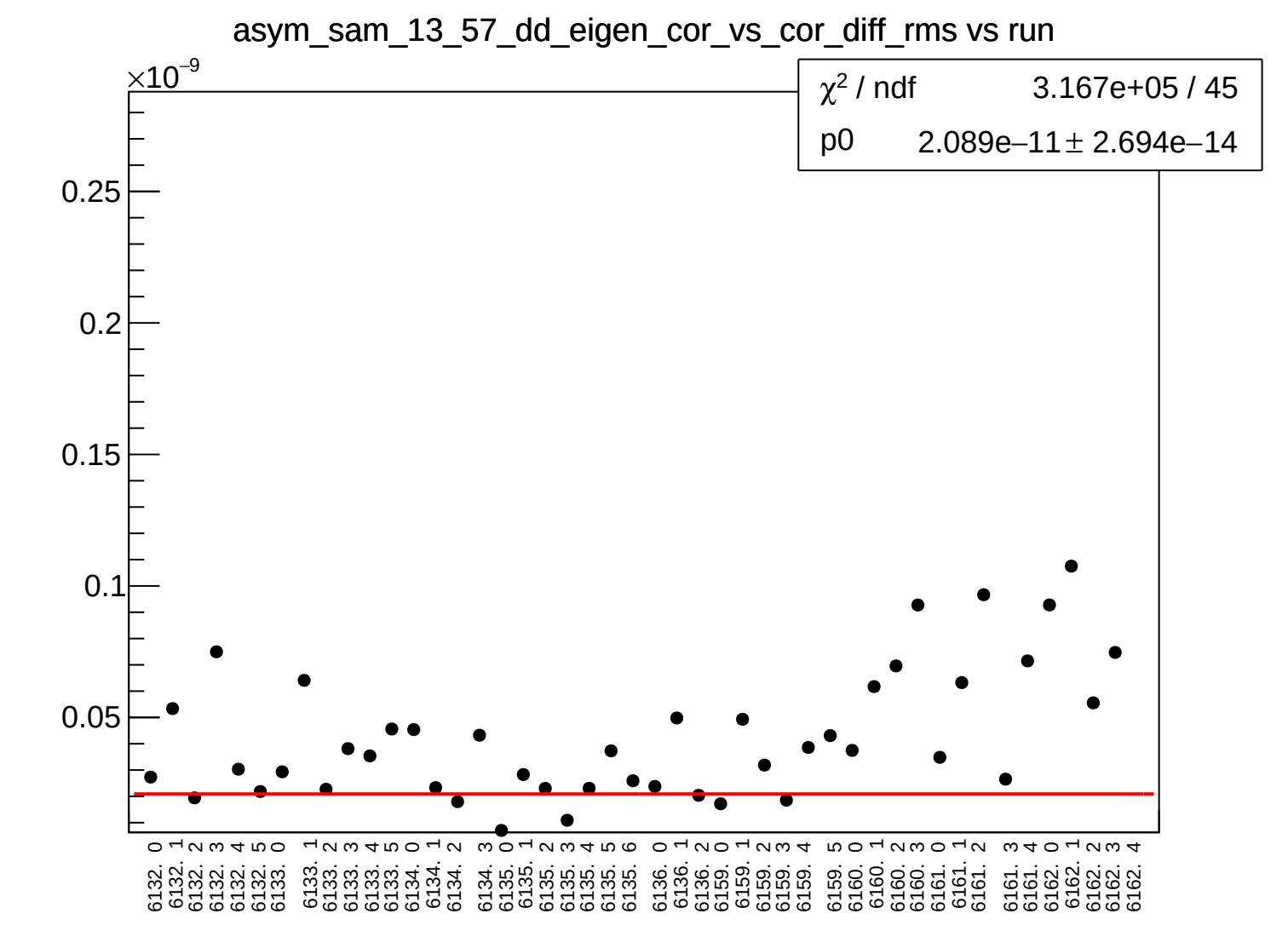

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.45 / 45
p0 −0.006423 ± 0.0252
pull
Entries 46
Mean 19.82
Std Dev 19.97


pull1D
Entries 46
Mean −0.04803
Std Dev 1.036


asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.454e+04 / 45
p0 16.56 ± 0.01782
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 45.55 / 45
p0 2.742e−15 ± 3.81e−14
pull
Entries 46
Mean −10.75
Std Dev 0


pull1D
Entries 46
Mean 0.04945
Std Dev 0.9939


asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.167e+05 / 45
p0 2.089e−11 ± 2.694e−14
0.25
0.2
0.15
0.1
0.05
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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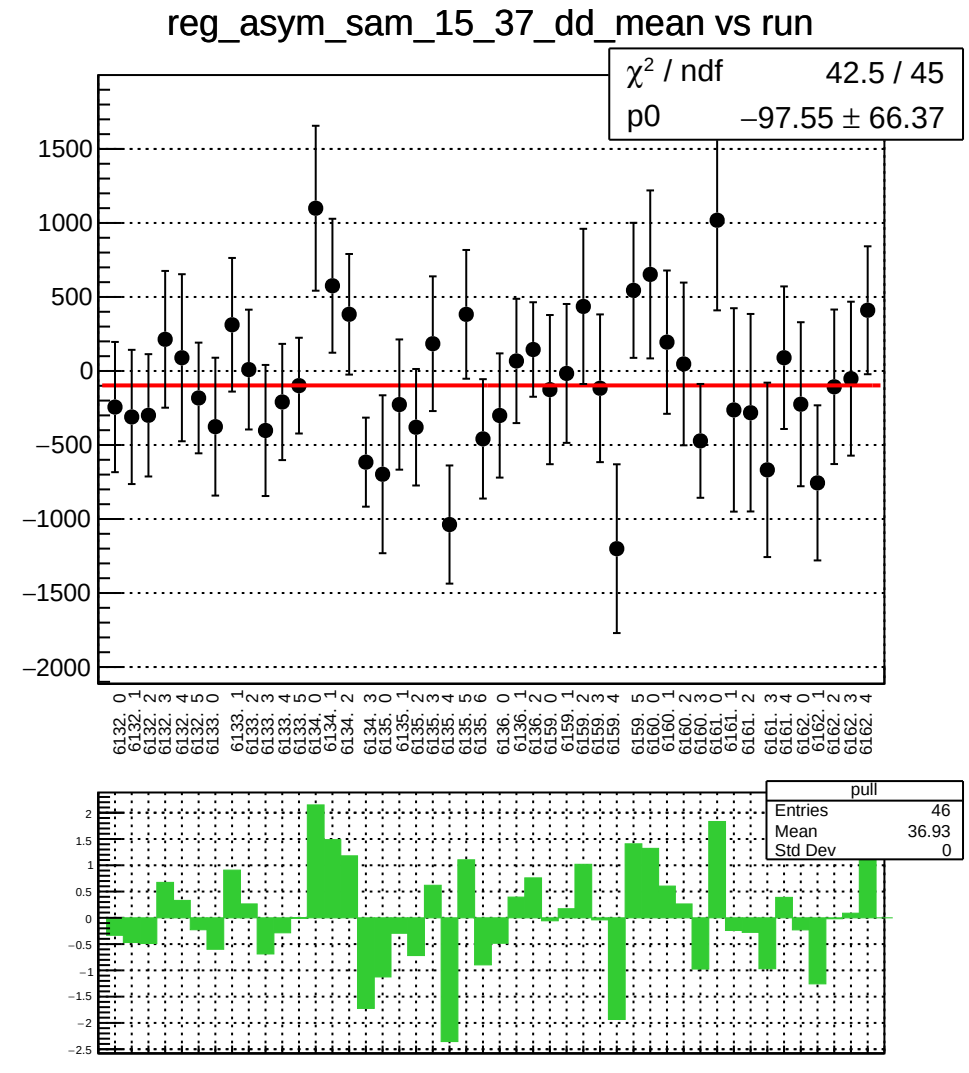
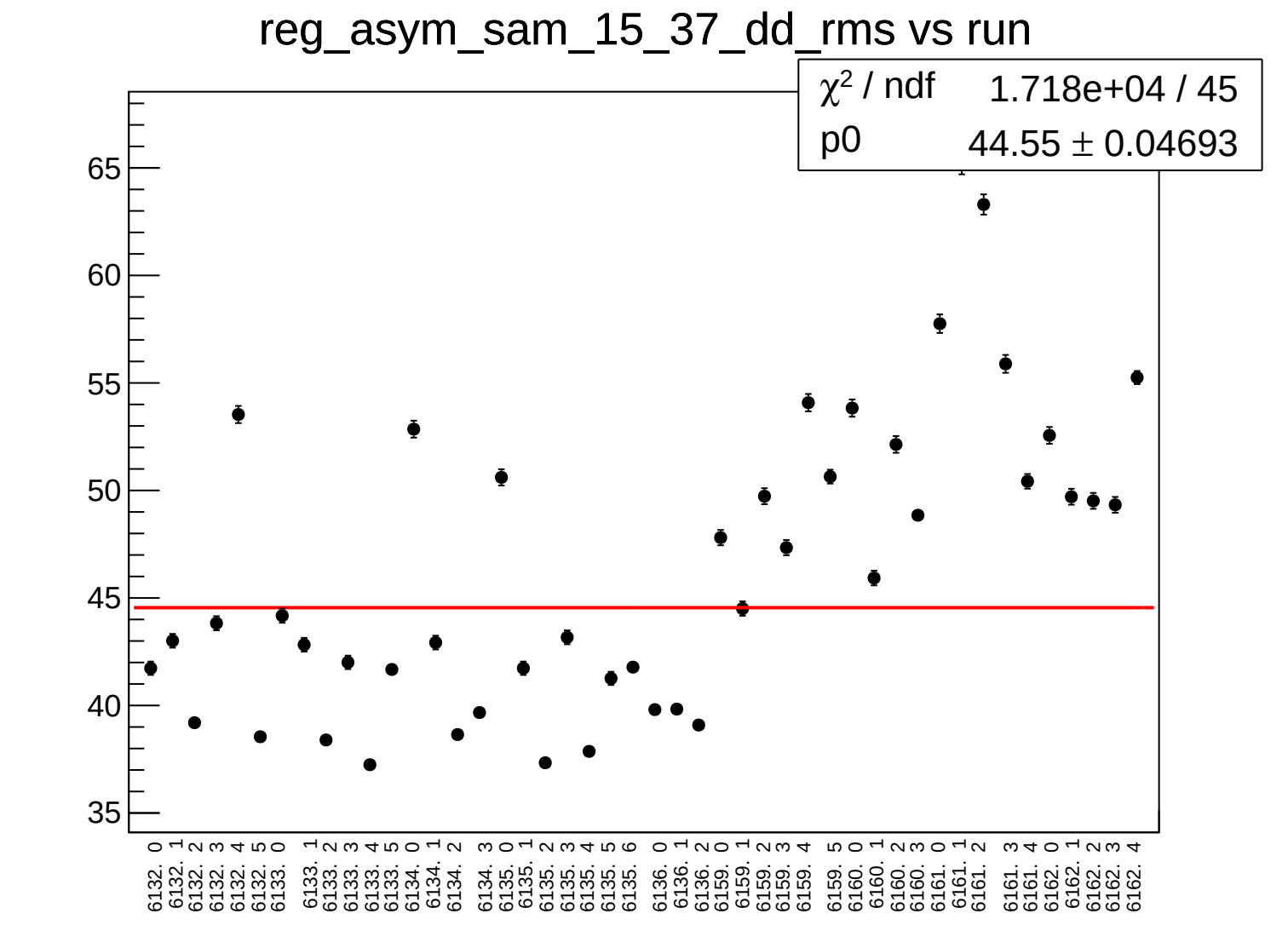
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 42.5 / 45
p0 −97.55 ± 66.37
1500
1000
500
0
−500
−1000
−1500
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 36.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean 0.03186
Std Dev 0.9606
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.718e+04 / 45
p0 44.55 ± 0.04693
65
60
55
50
45
40
35
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
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6135. 4
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6135. 6
6136. 0
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6136. 2
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6159. 1
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6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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6161. 4
6162. 0
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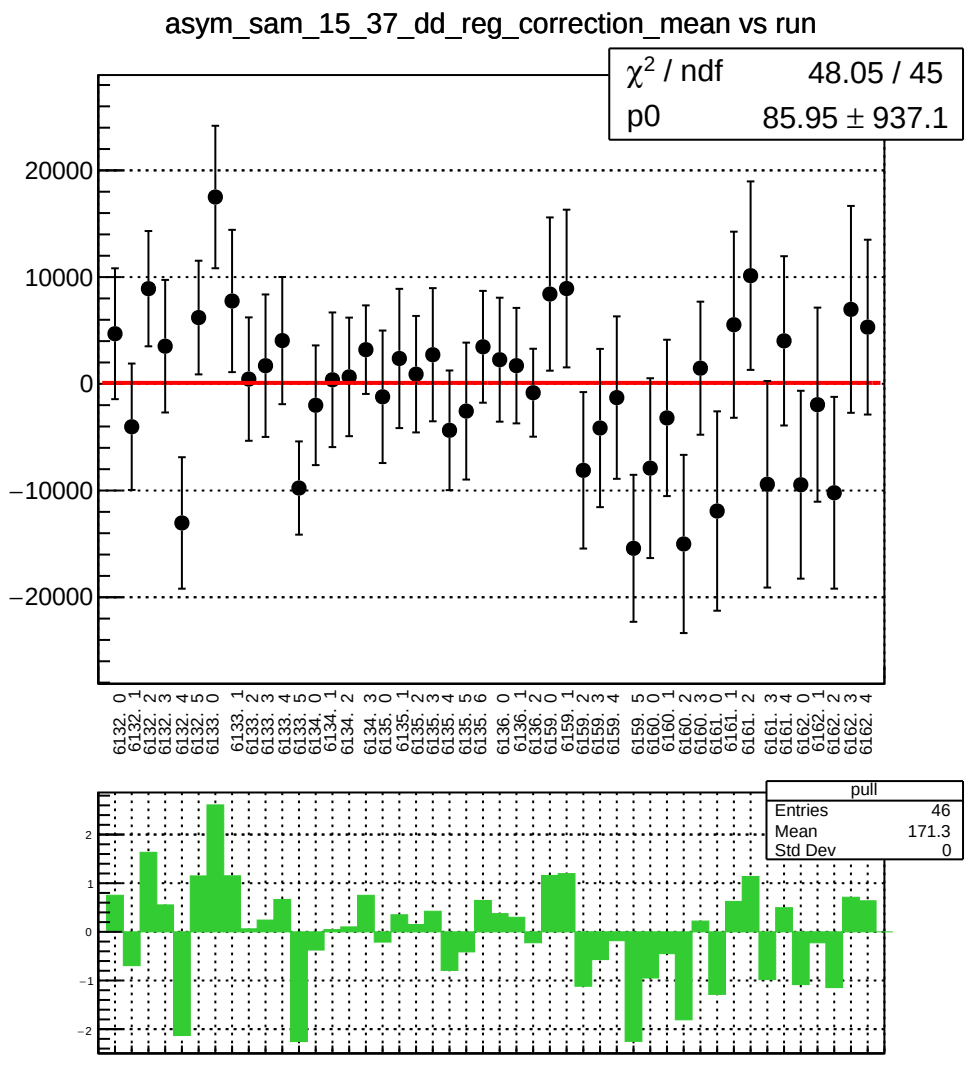
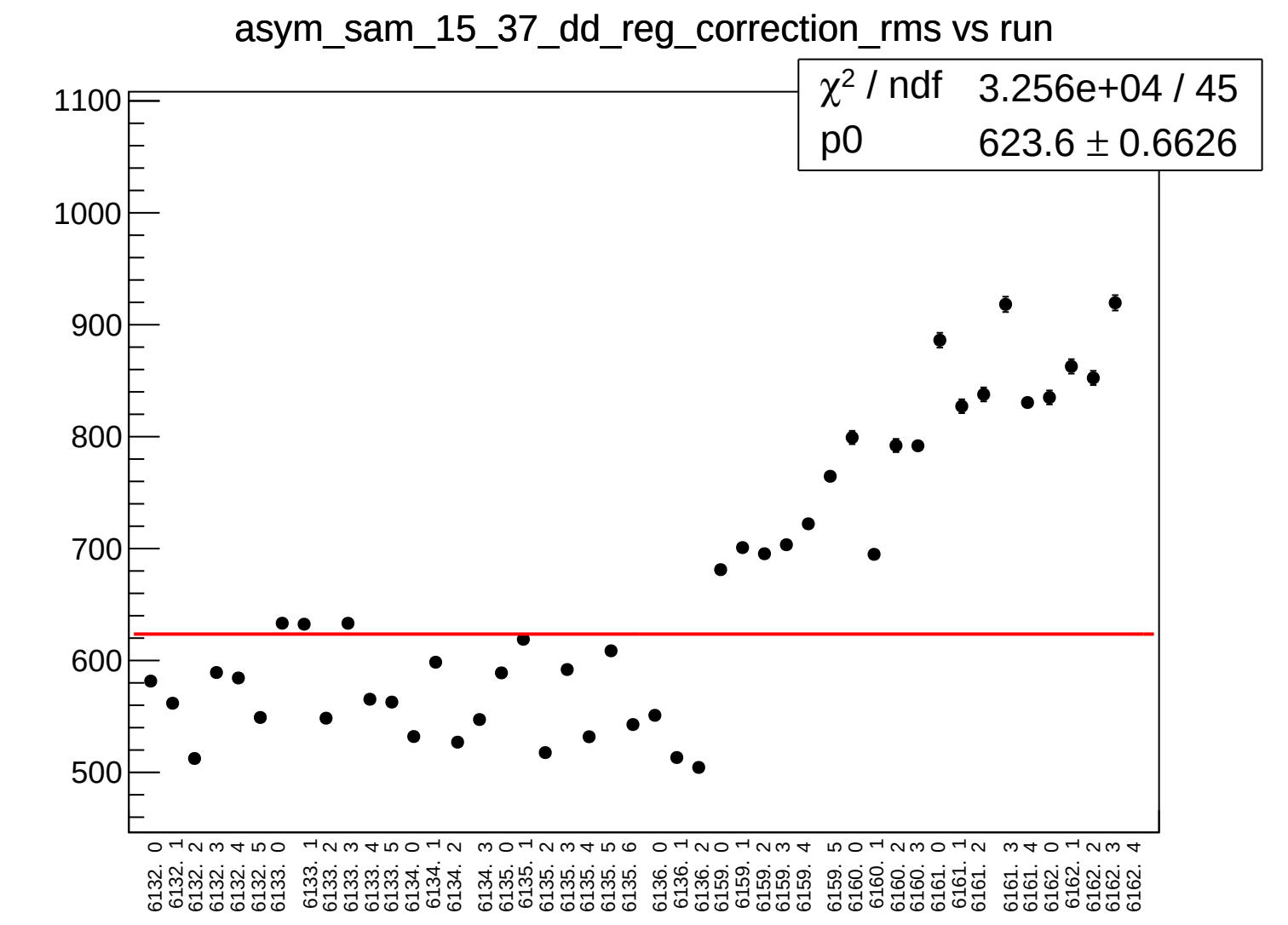
6162. 2
6162. 3
6162. 4


asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 48.05 / 45
p0 85.95 ± 937.1
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 171.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.02152
Std Dev 1.022
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 3.256e+04 / 45
p0 623.6 ± 0.6626
1100
1000
900
800
700
600
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6134. 1
6134. 2
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6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
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6159. 0
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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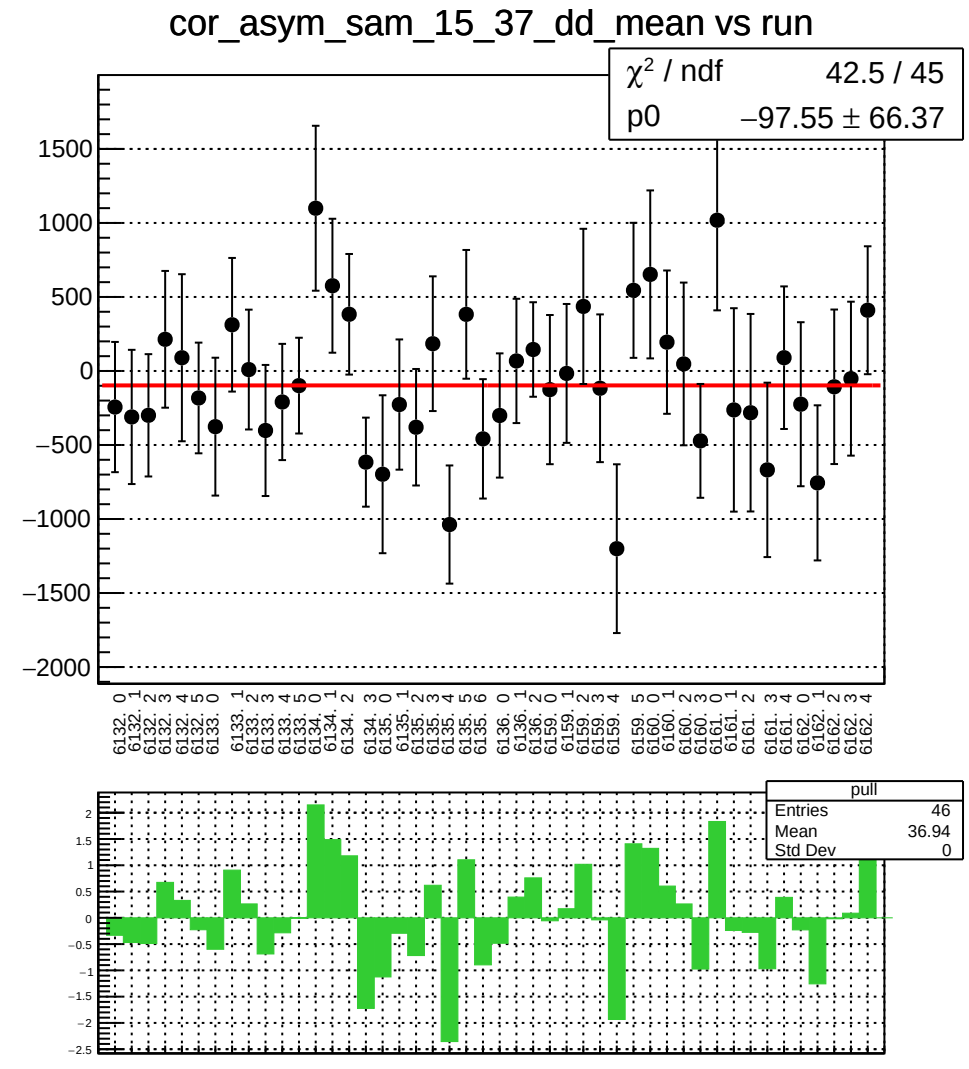
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 42.5 / 45
p0 −97.55 ± 66.37
1500
1000
500
0
−500
−1000
−1500
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
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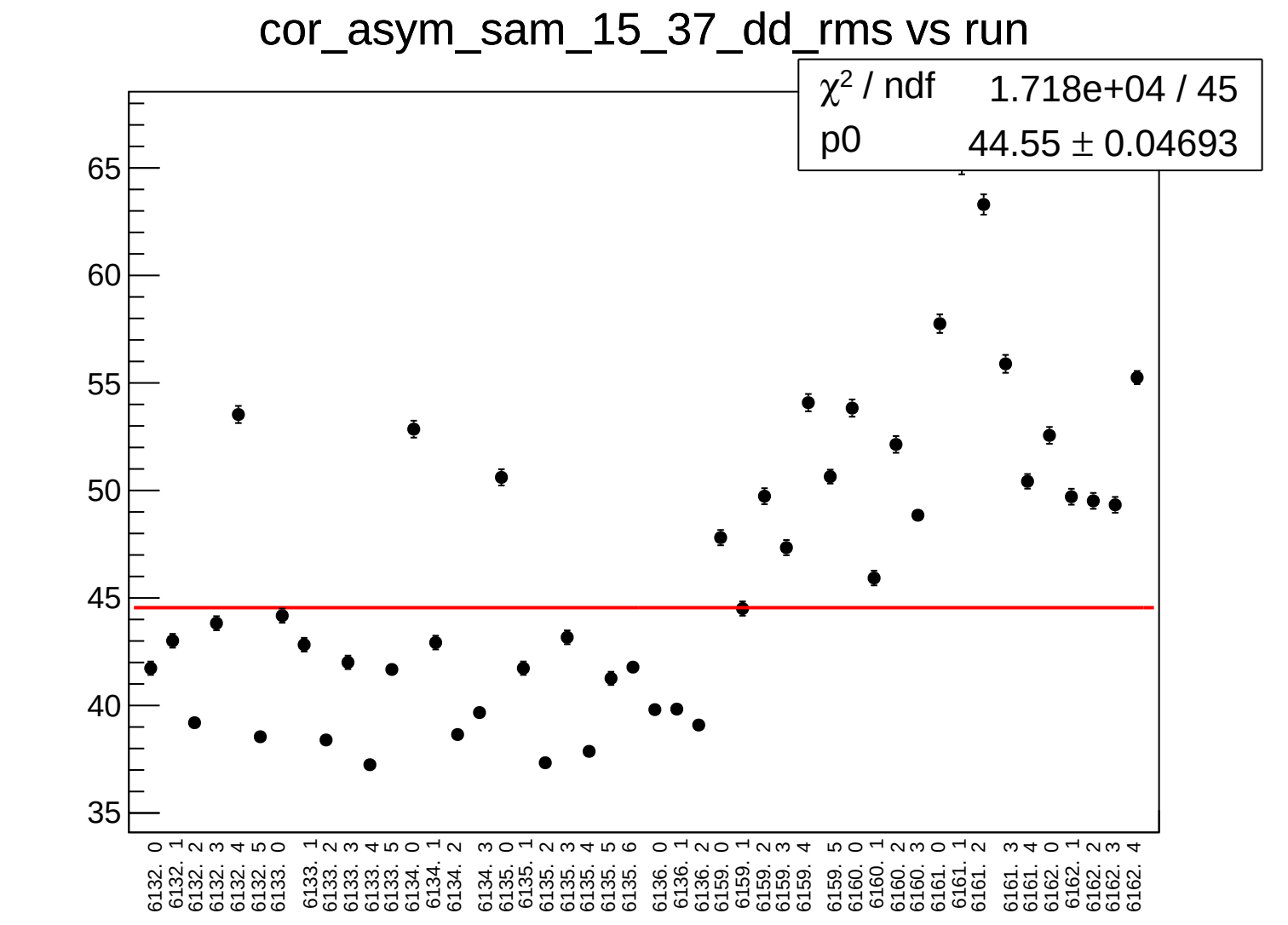
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 36.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean 0.03186
Std Dev 0.9607
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.718e+04 / 45
p0 44.55 ± 0.04693
65
60
55
50
45
40
35
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
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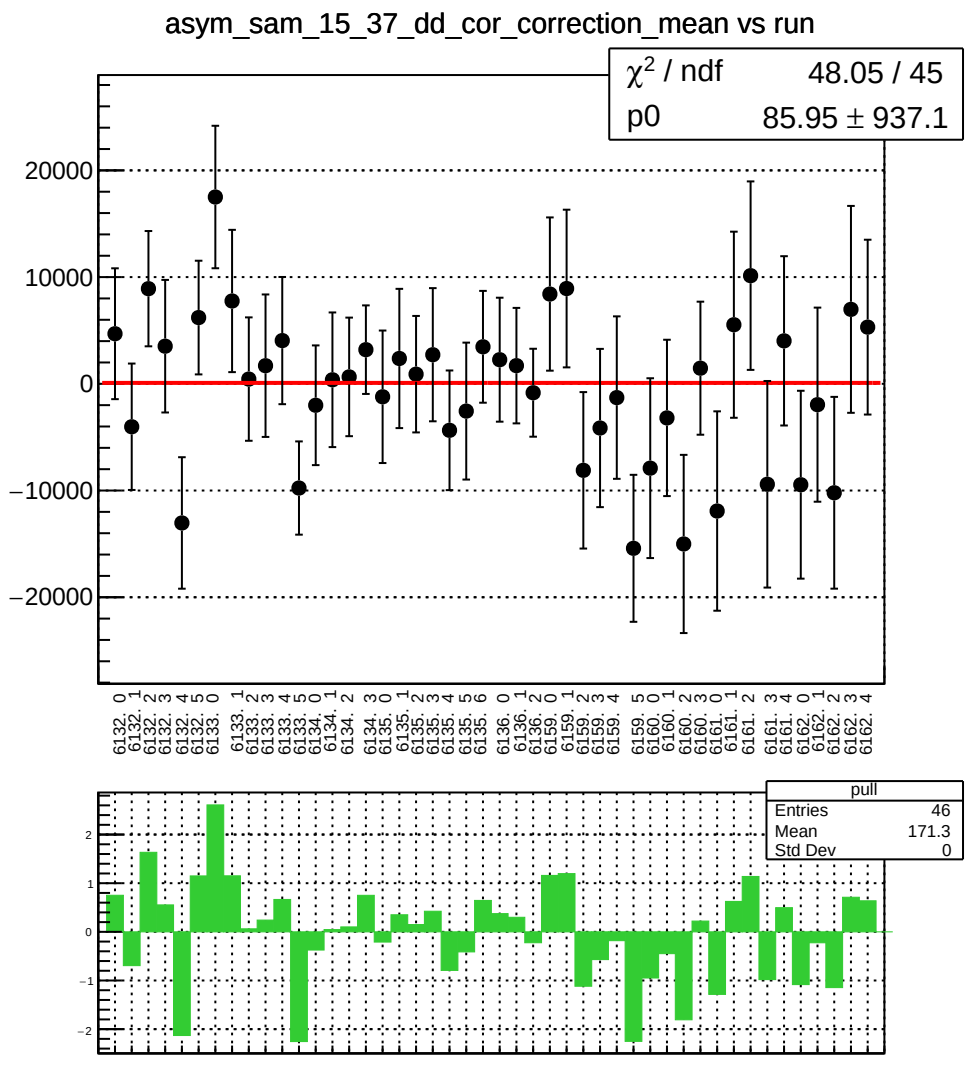
6162. 4


asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 48.05 / 45
p0 85.95 ± 937.1
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
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6135. 6
6136. 0
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6136. 2
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6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
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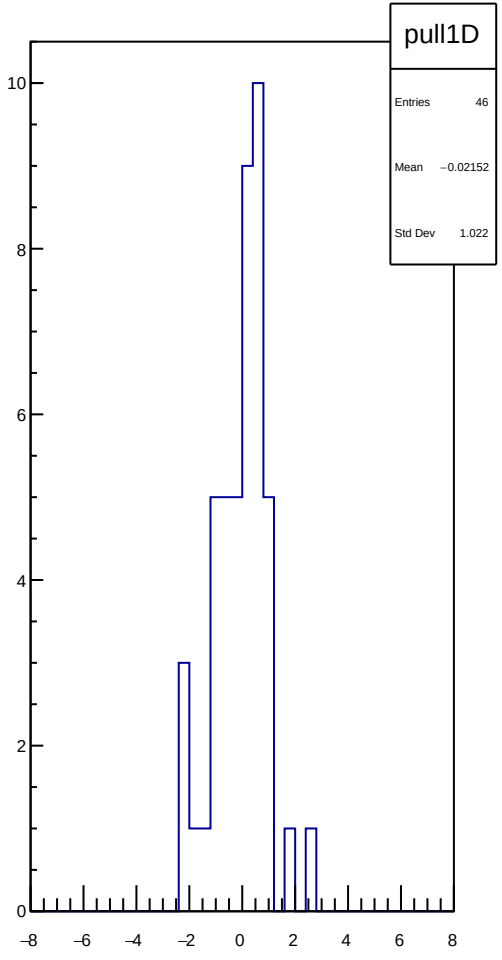
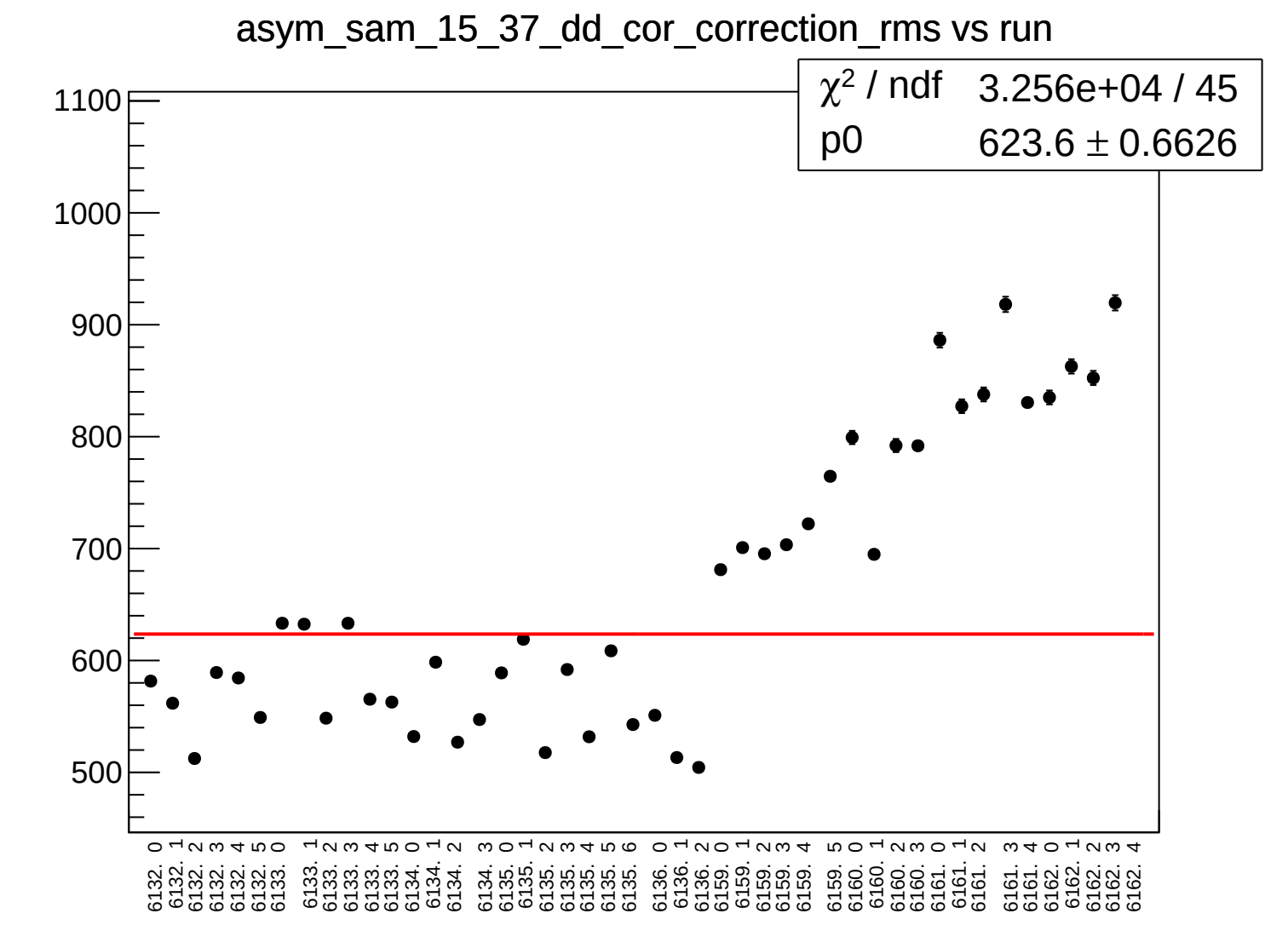
6162. 3
6162. 4
pull
Entries 46
Mean 171.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.02152
Std Dev 1.022
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 3.256e+04 / 45
p0 623.6 ± 0.6626
1100
1000
900
800
700
600
500
6132. 0
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6132. 2
6132. 3
6132. 4
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6160. 2
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6161. 2
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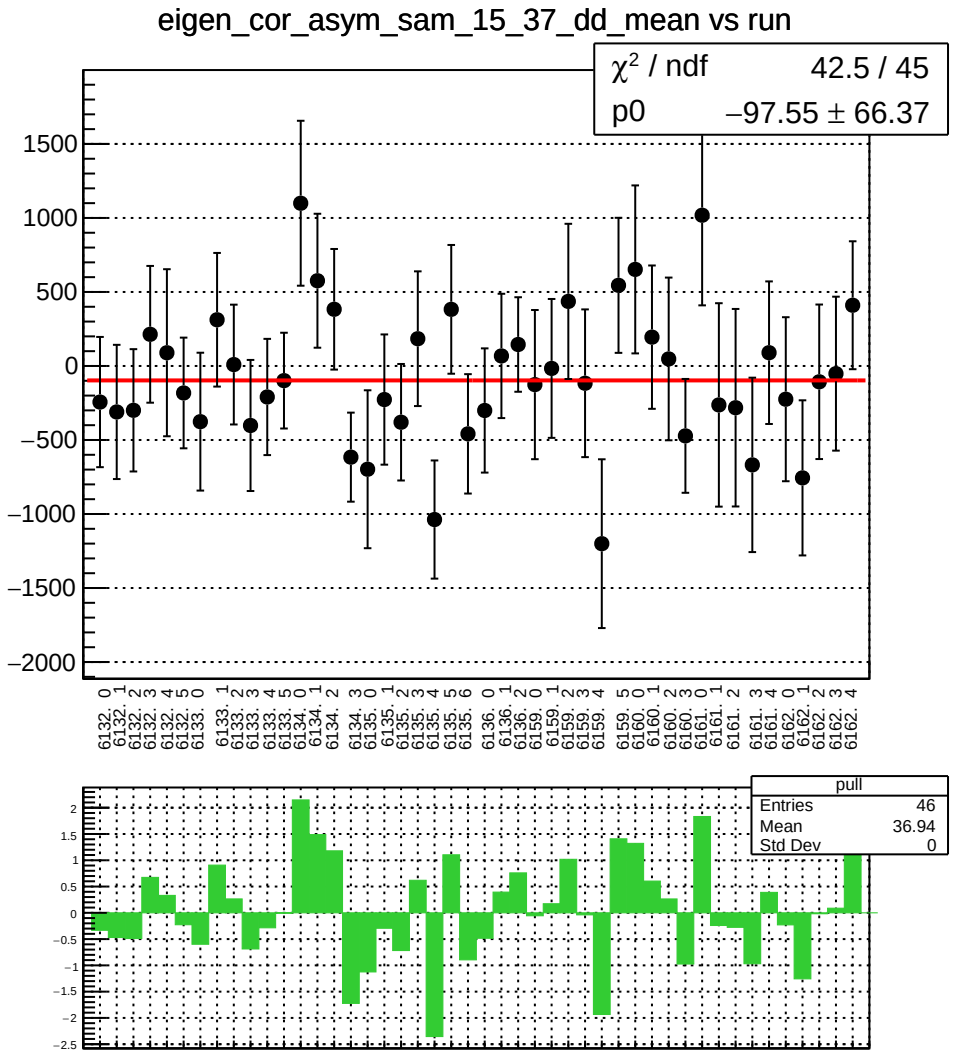
6162. 3
6162. 4


eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 42.5 / 45
p0 −97.55 ± 66.37
1500
1000
500
0
−500
−1000
−1500
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
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6136. 2
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6160. 1
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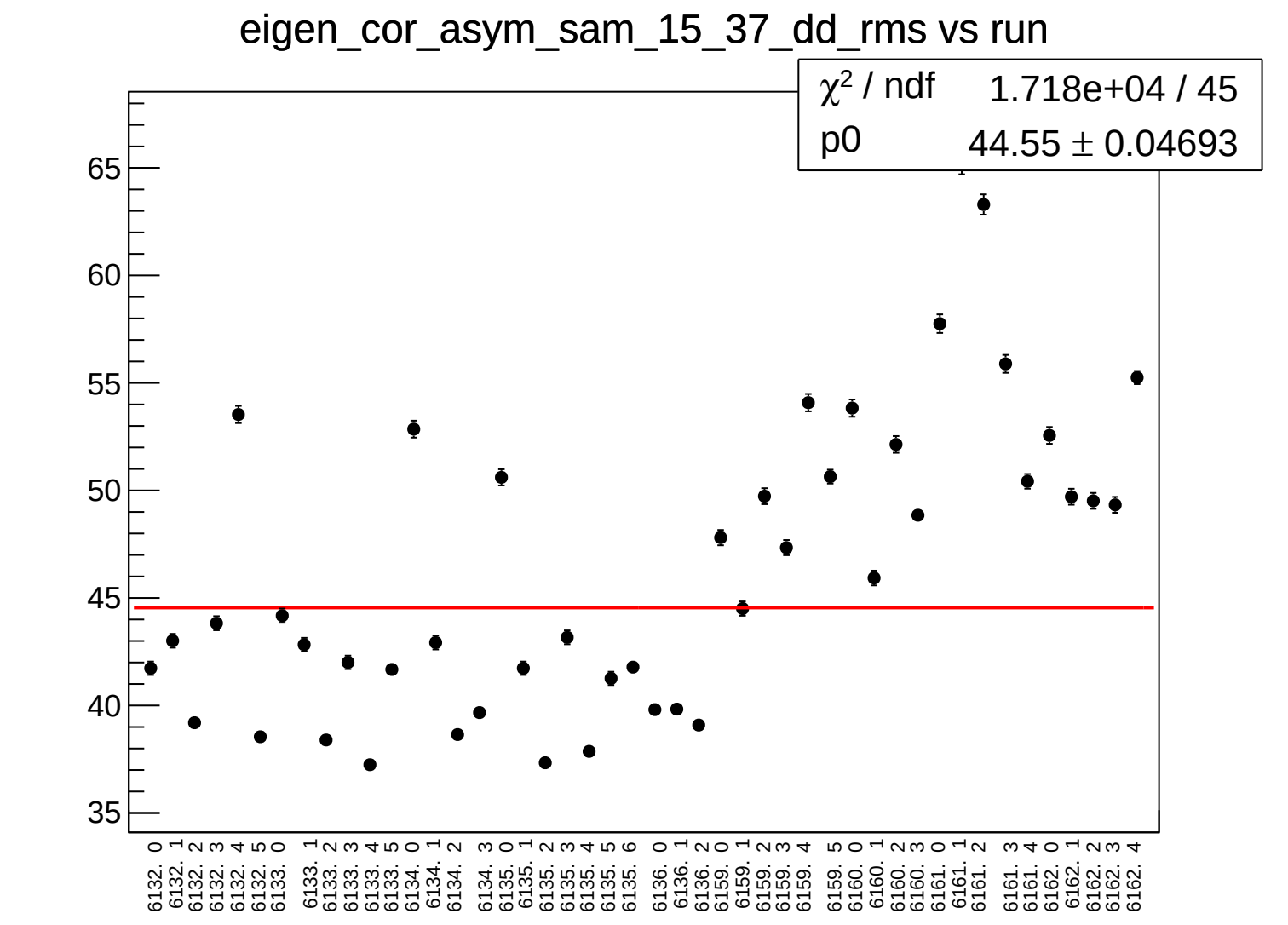
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 36.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean 0.03186
Std Dev 0.9607
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.718e+04 / 45
p0 44.55 ± 0.04693
65
60
55
50
45
40
35
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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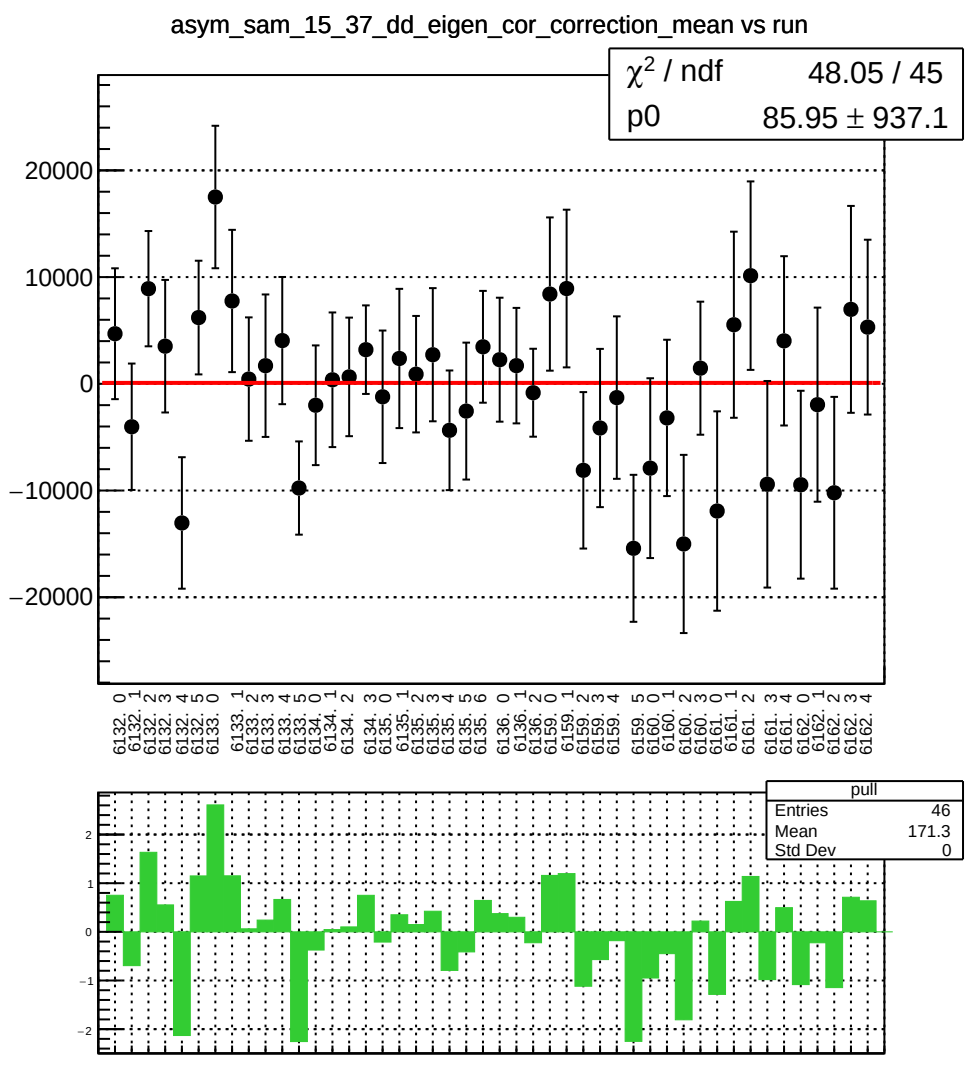
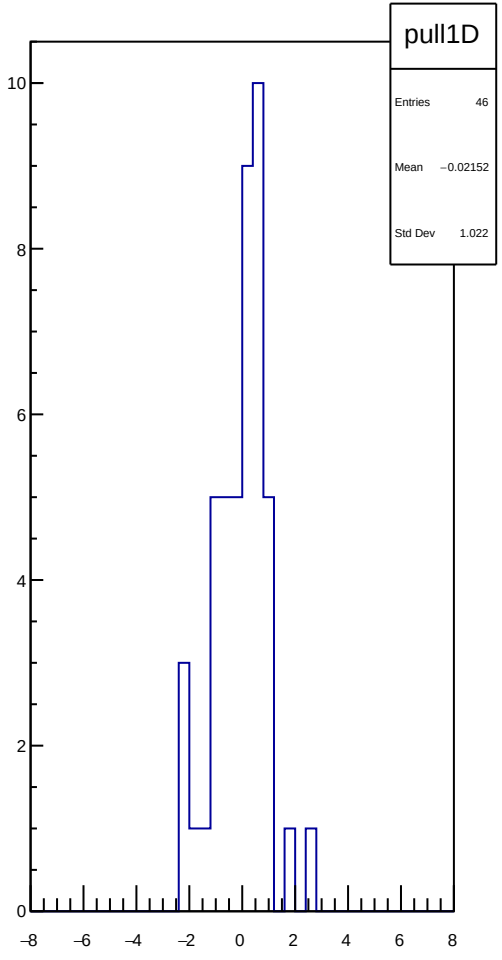
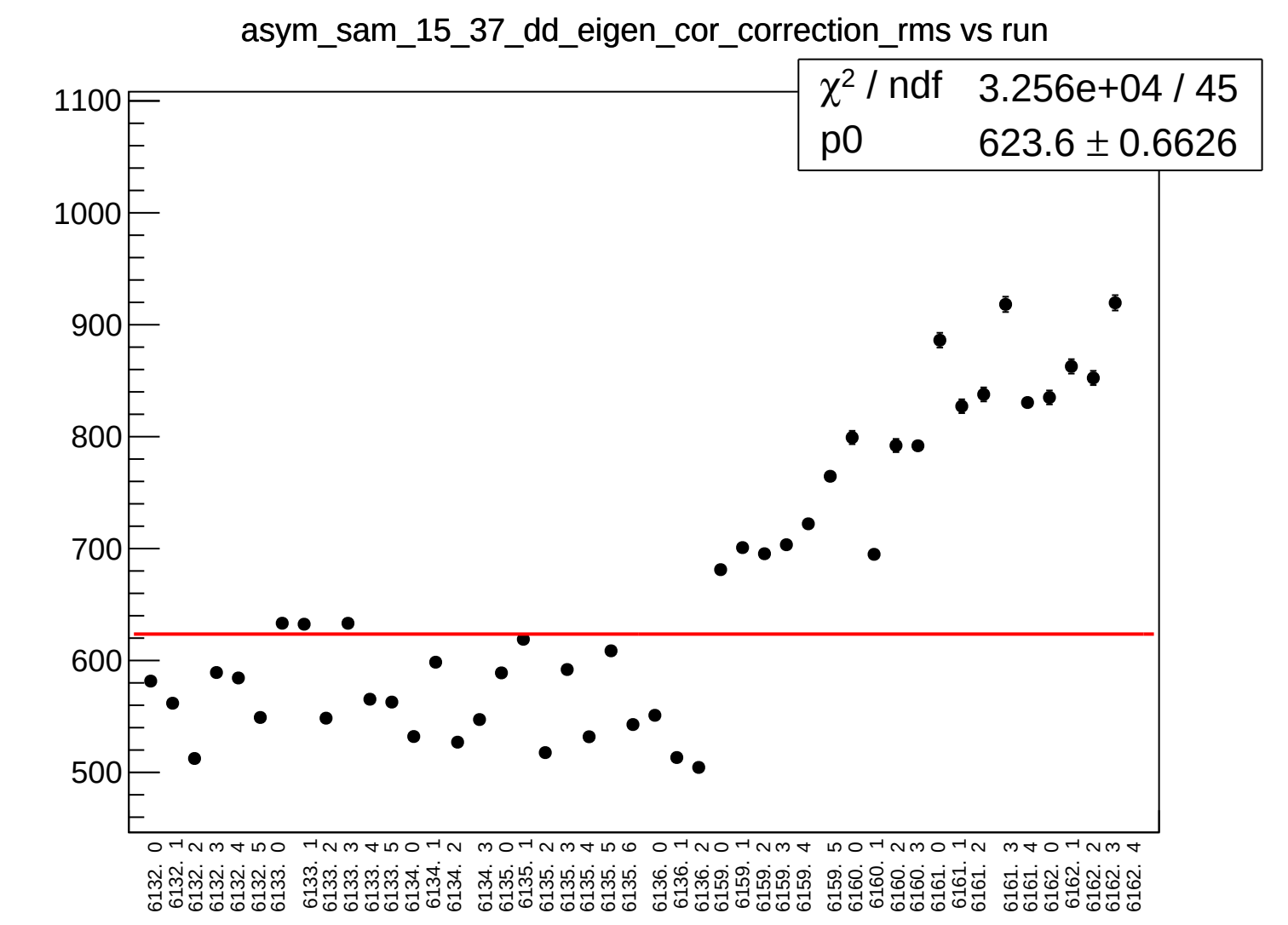
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 48.05 / 45
p0 85.95 ± 937.1
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 171.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.02152
Std Dev 1.022
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.256e+04 / 45
p0 623.6 ± 0.6626
1100
1000
900
800
700
600
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6162. 0
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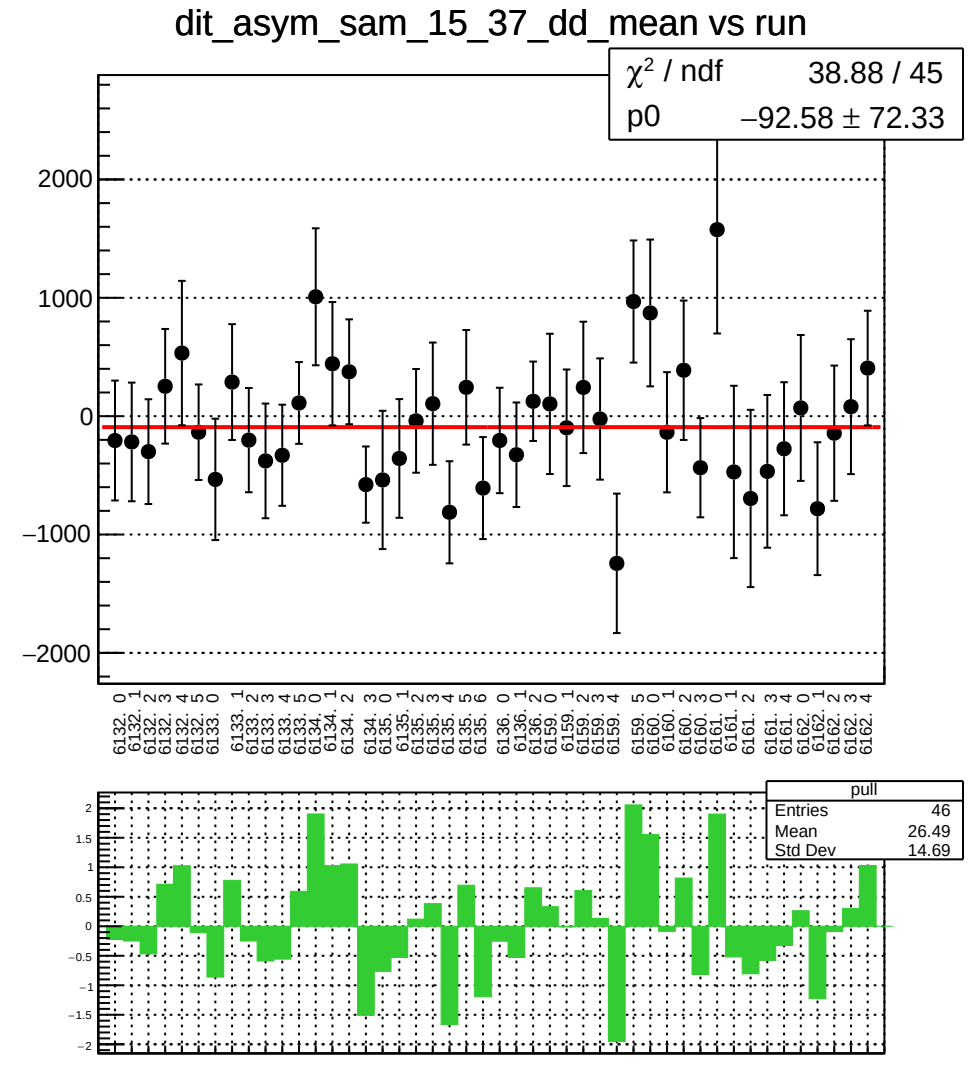
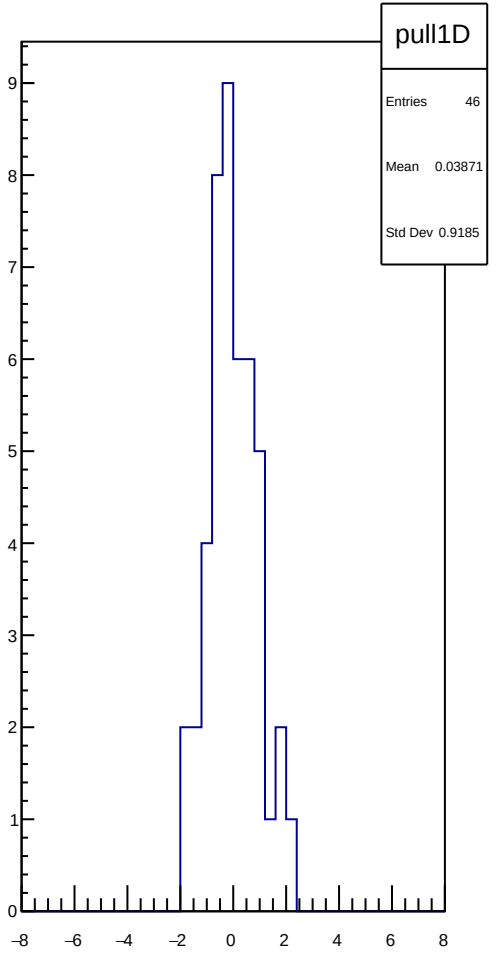
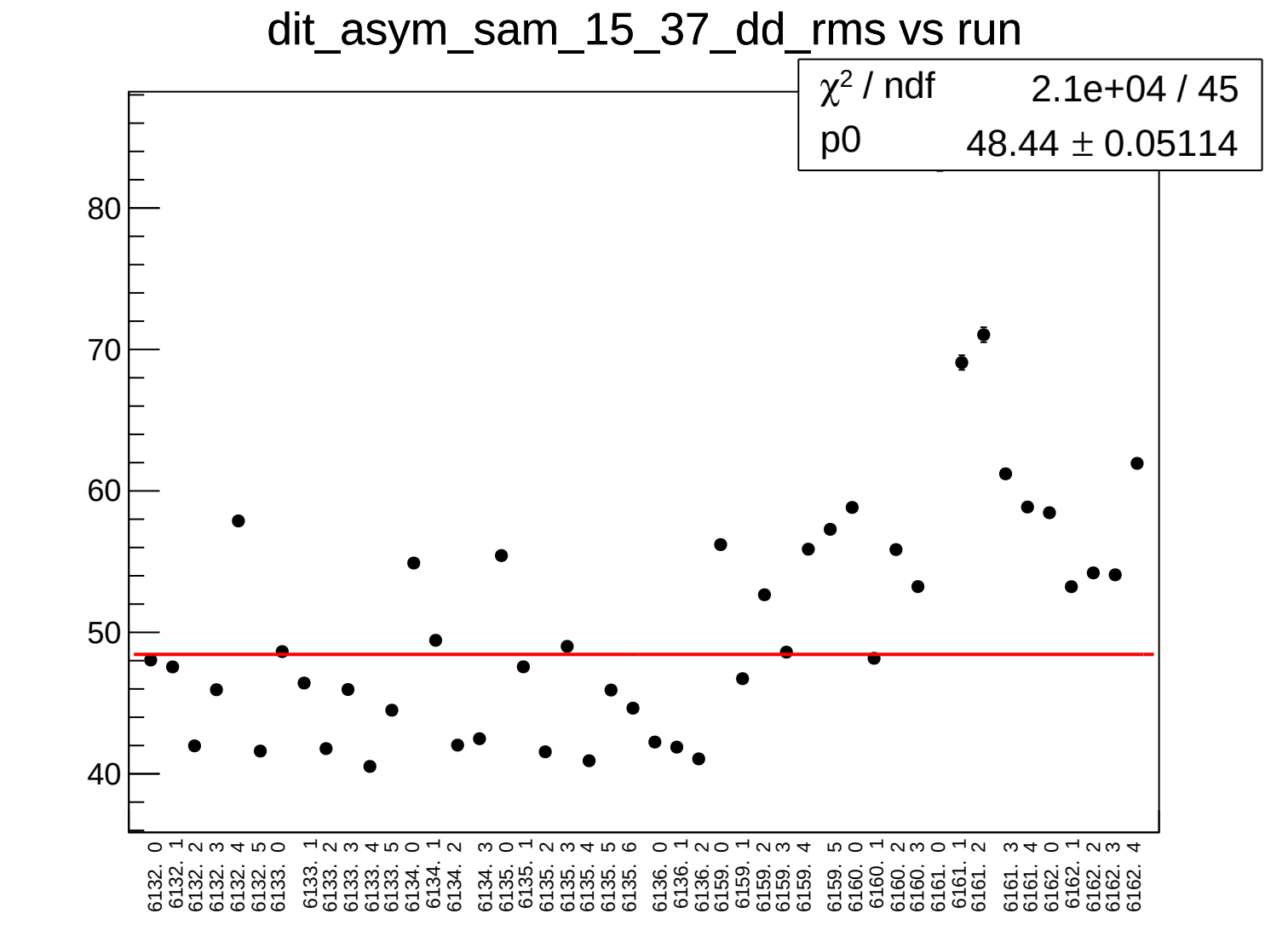
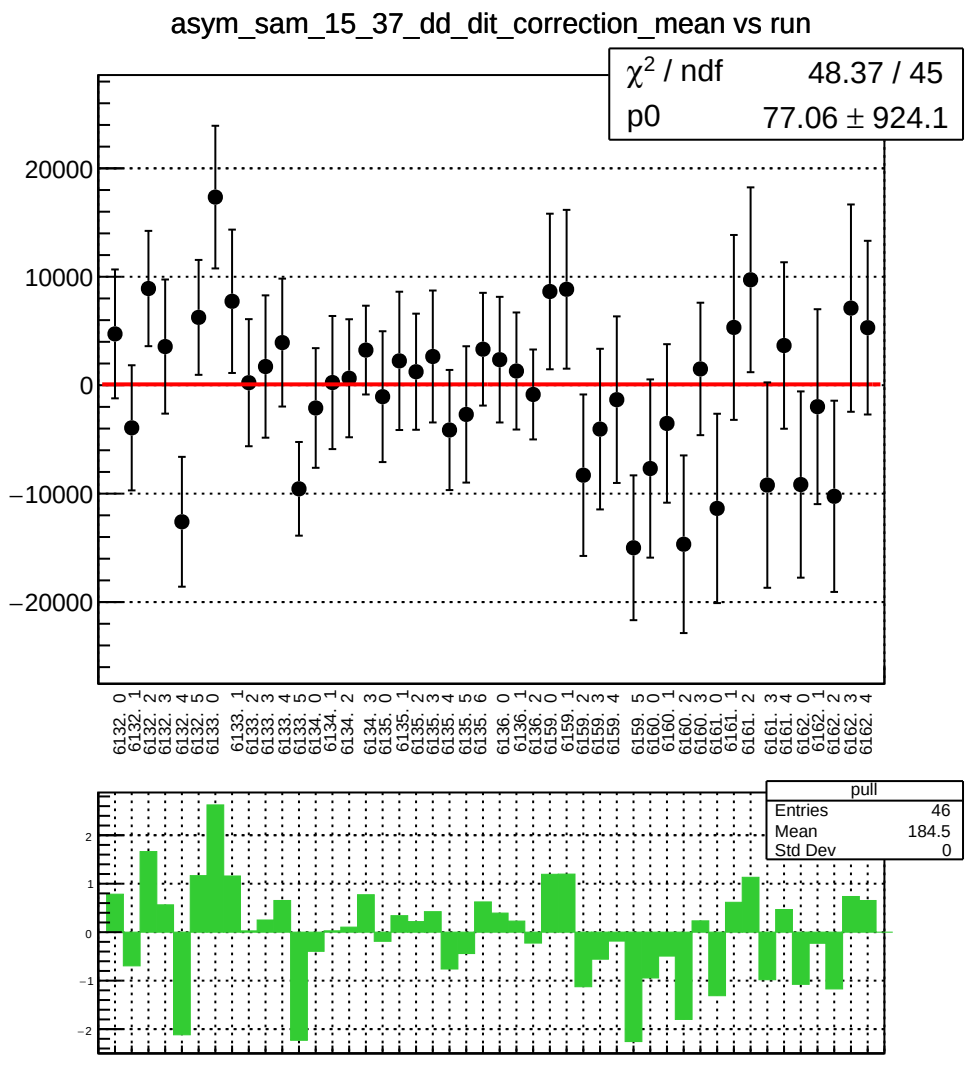
6162. 4


dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 38.88 / 45
p0 −92.58 ± 72.33
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 26.49
Std Dev 14.69
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.03871
Std Dev 0.9185
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.1e+04 / 45
p0 48.44 ± 0.05114
80
70
60
50
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 48.37 / 45
p0 77.06 ± 924.1
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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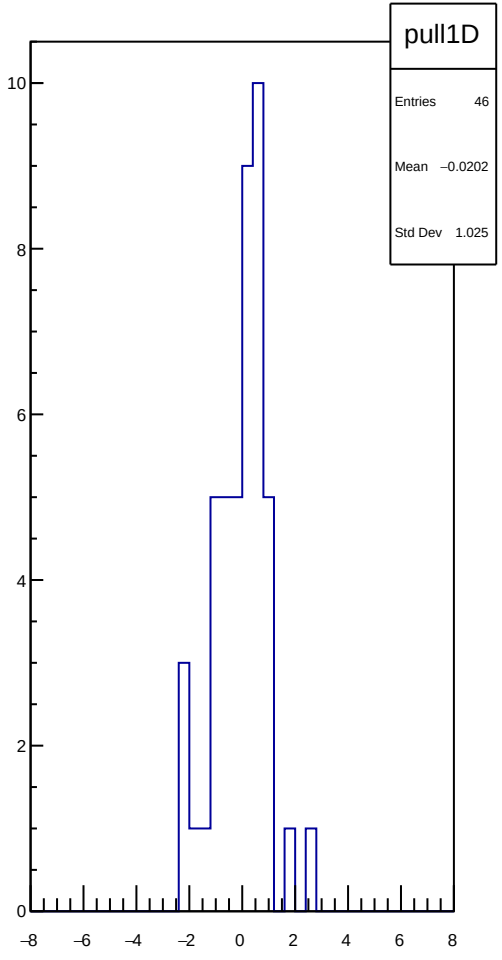
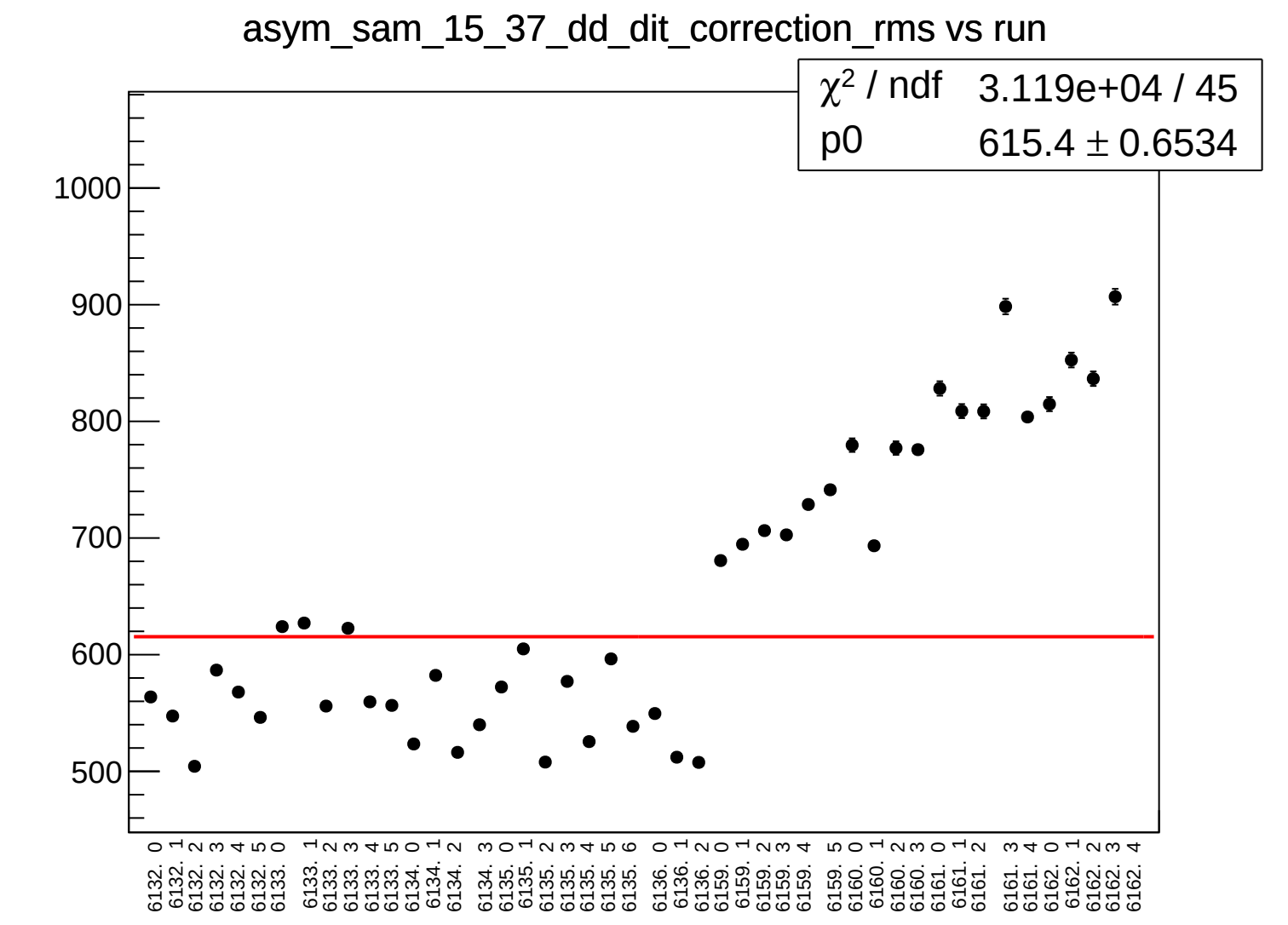
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 184.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.0202
Std Dev 1.025
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 3.119e+04 / 45
p0 615.4 ± 0.6534
1000
900
800
700
600
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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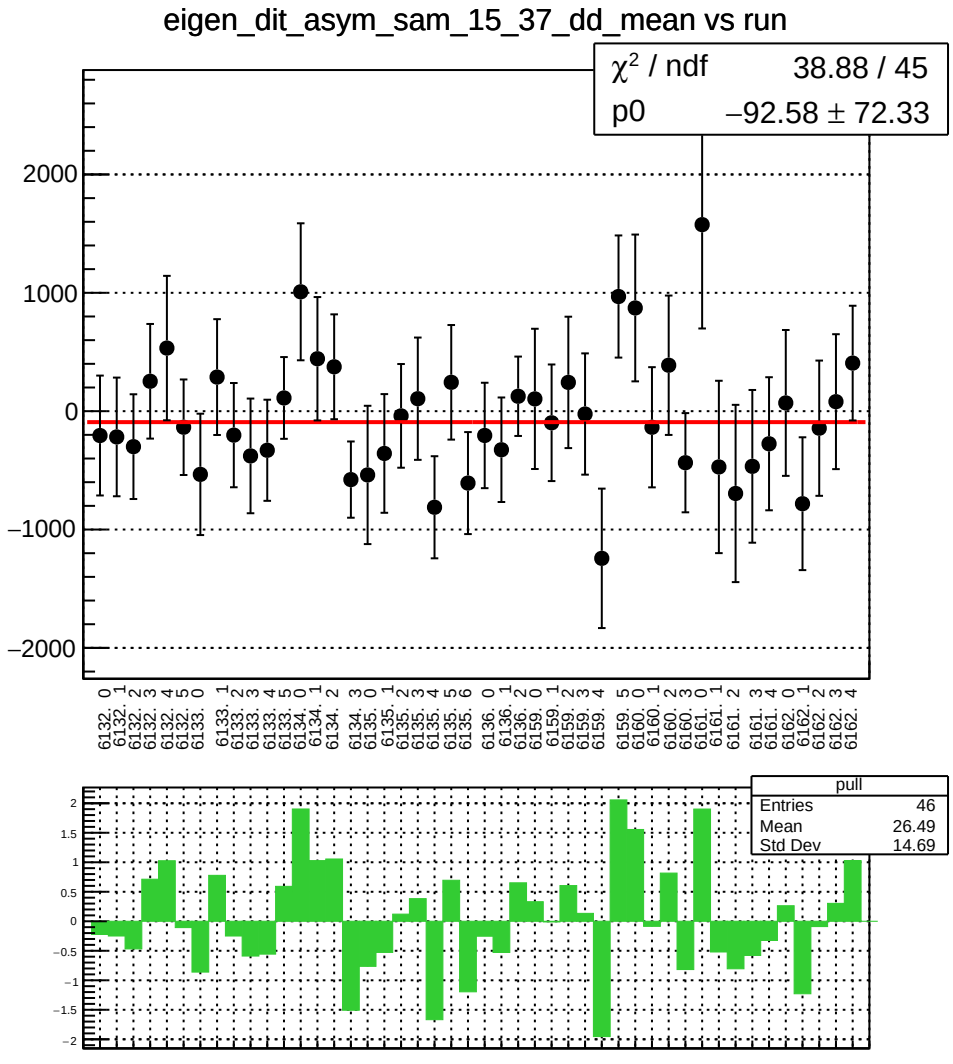
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 38.88 / 45
p0 −92.58 ± 72.33
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
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6135. 1
6135. 2
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6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 26.49
Std Dev 14.69
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.03871
Std Dev 0.9186
9
8
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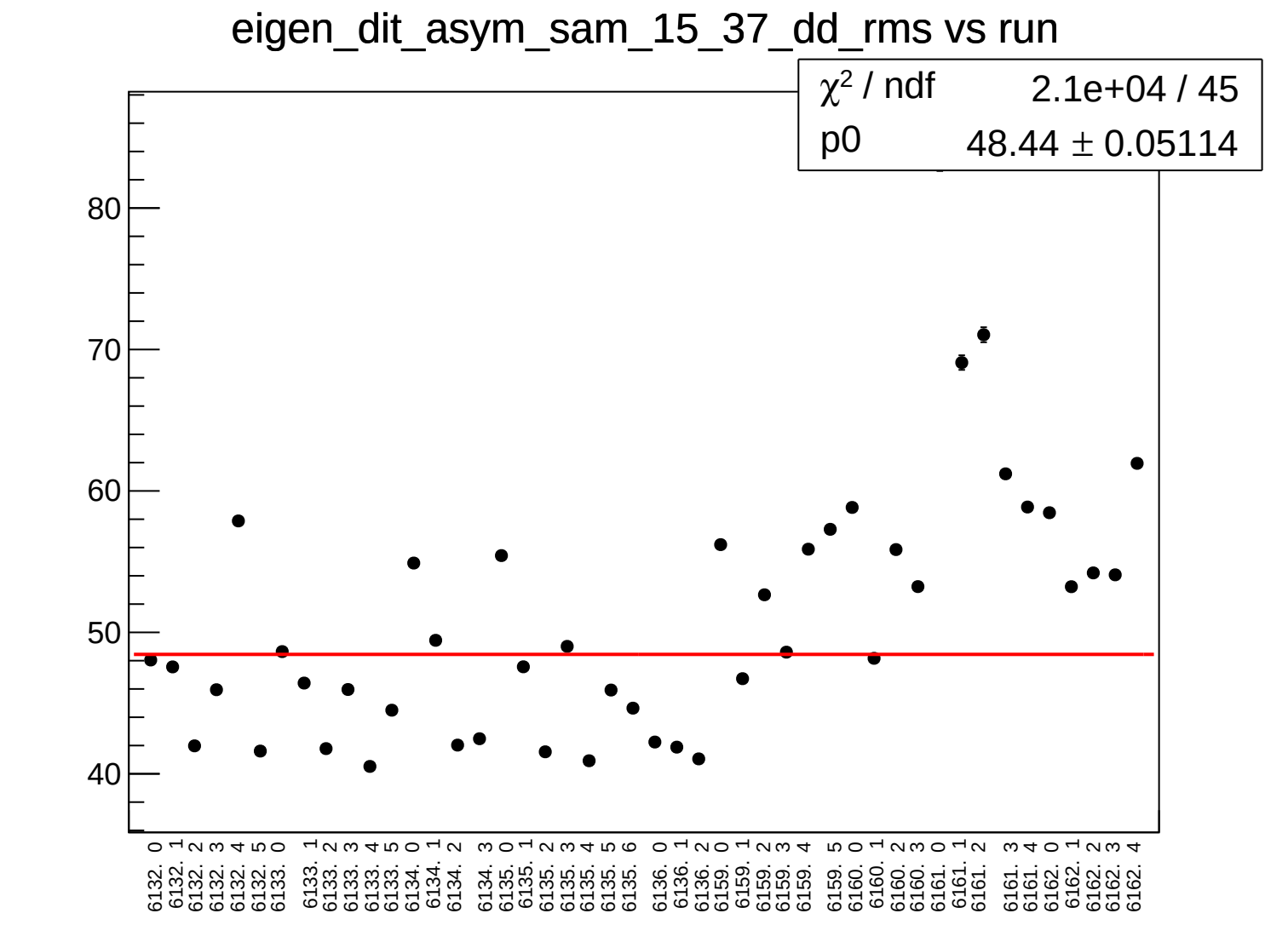
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.1e+04 / 45
p0 48.44 ± 0.05114
80
70
60
50
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6135. 2
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6136. 2
6159. 0
6159. 1
6159. 2
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6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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6161. 4
6162. 0
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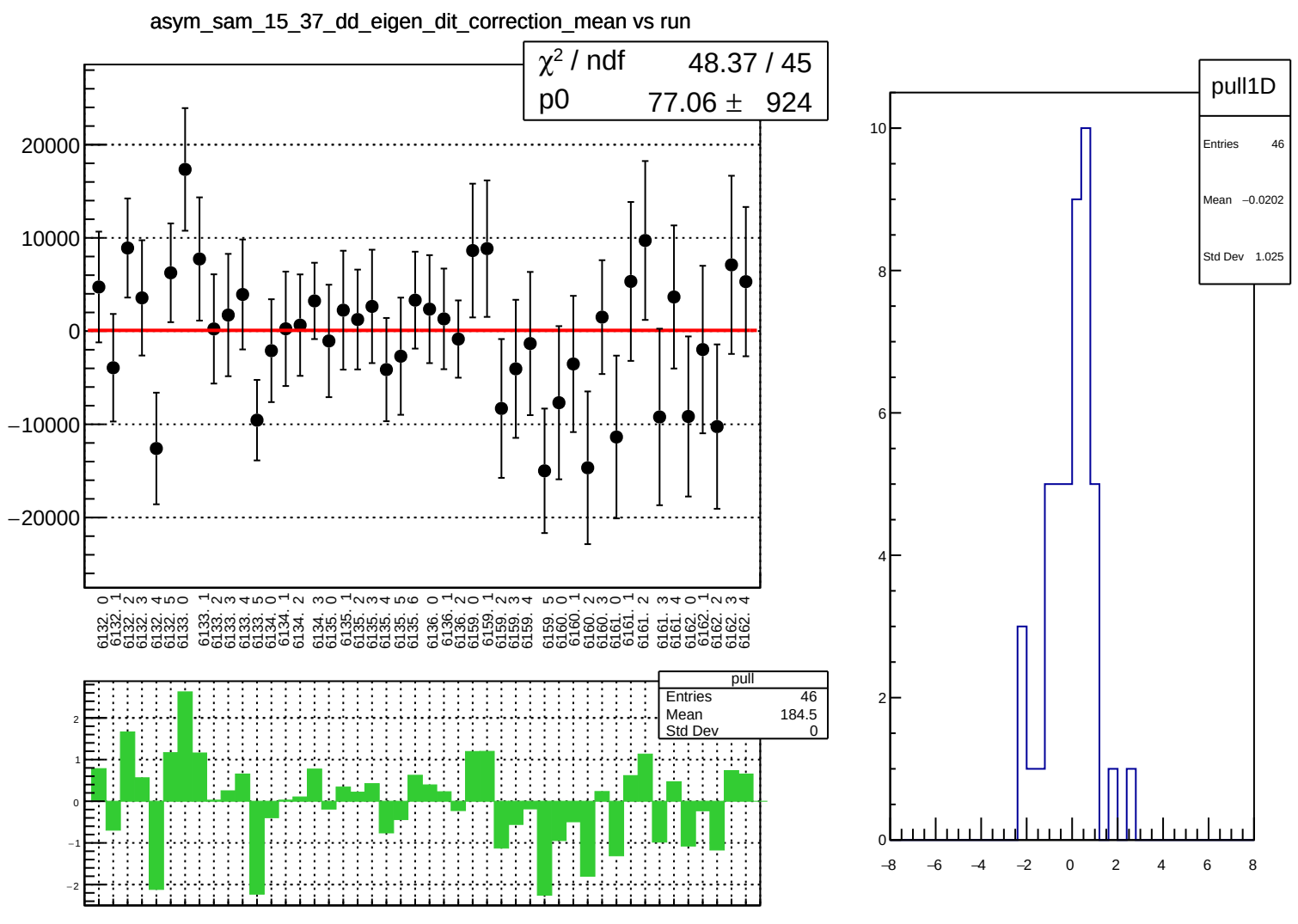
6162. 3
6162. 4


asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 48.37 / 45
p0 77.06 ± 924
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 1
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6136. 2
6159. 0
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6159. 2
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6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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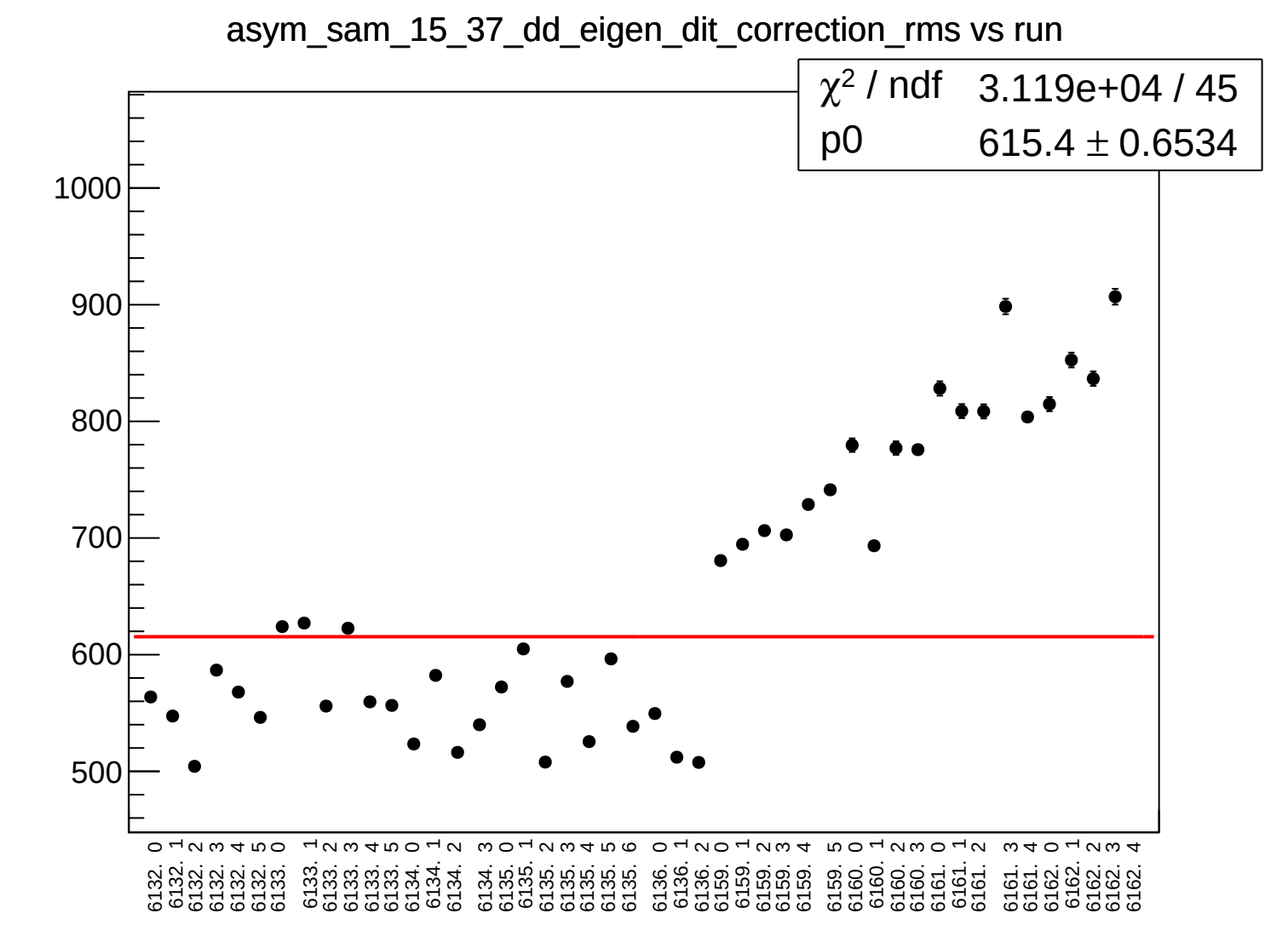
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 184.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.0202
Std Dev 1.025
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.119e+04 / 45
p0 615.4 ± 0.6534
1000
900
800
700
600
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
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6159. 1
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6159. 5
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6160. 2
6160. 3
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6161. 4
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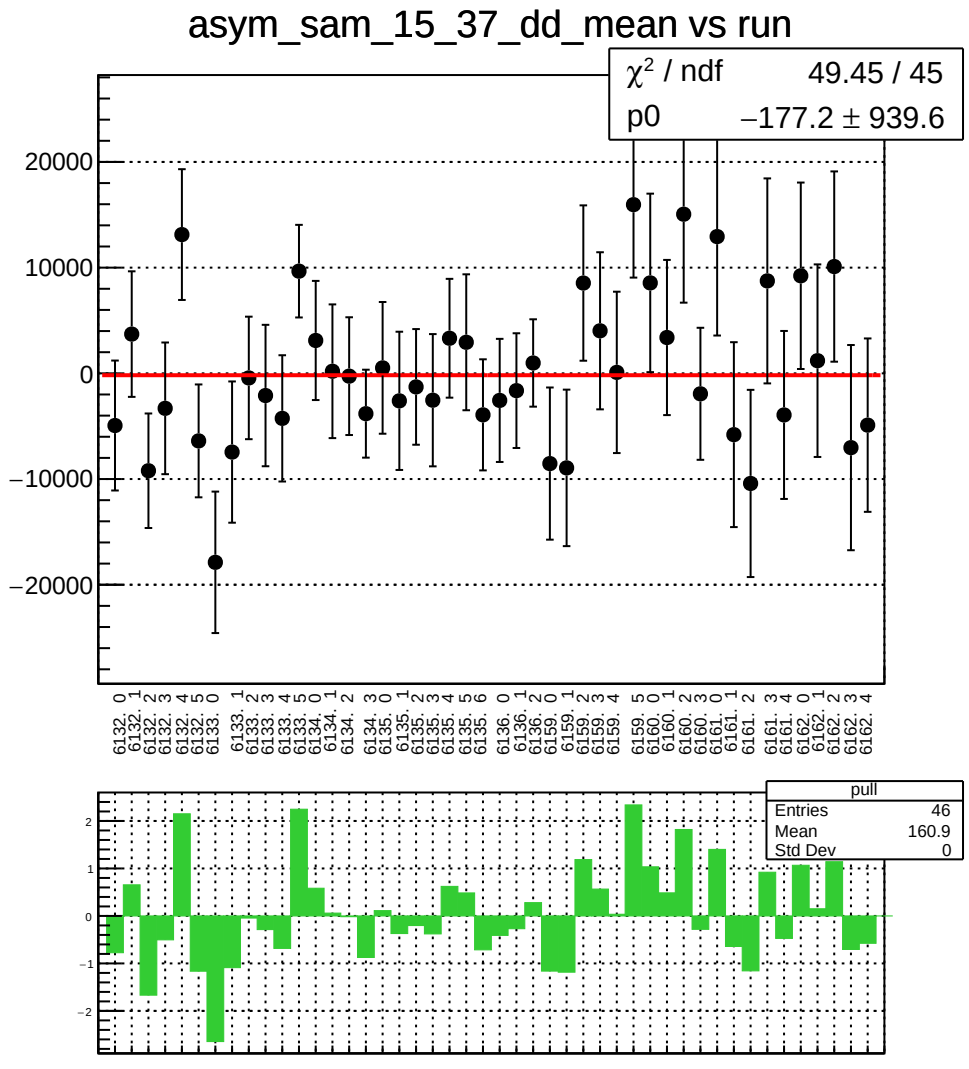
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_15_37_dd_mean vs run
χ² / ndf 49.45 / 45
p0 −177.2 ± 939.6
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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6161. 4
6162. 0
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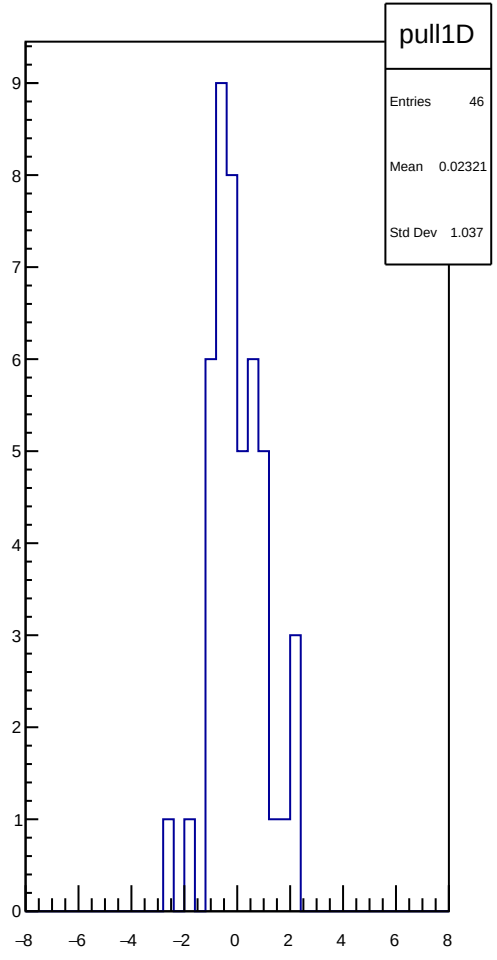
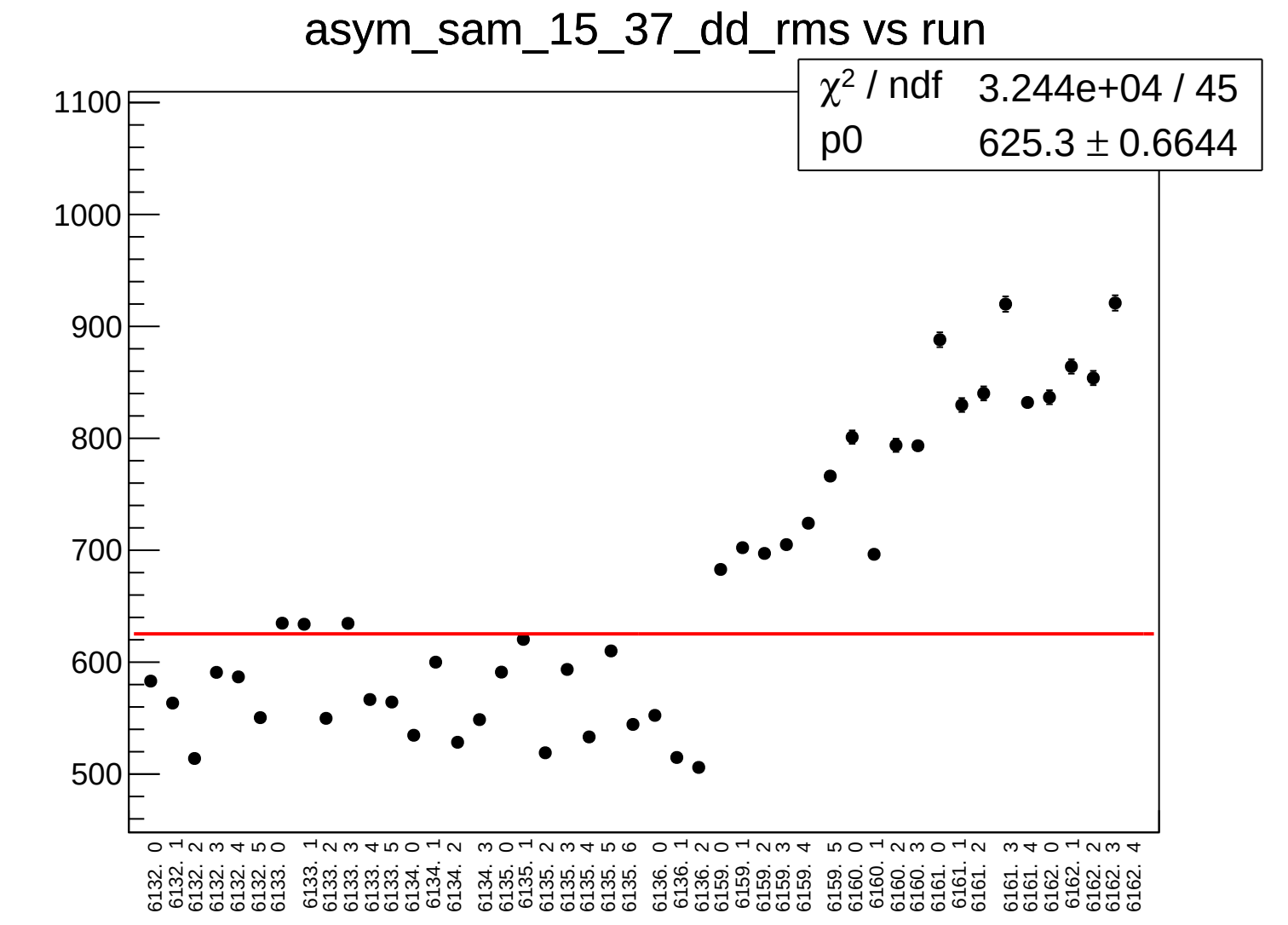
6162. 4
pull
Entries 46
Mean 160.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.02321
Std Dev 1.037
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 3.244e+04 / 45
p0 625.3 ± 0.6644
1100
1000
900
800
700
600
500
6132. 0
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6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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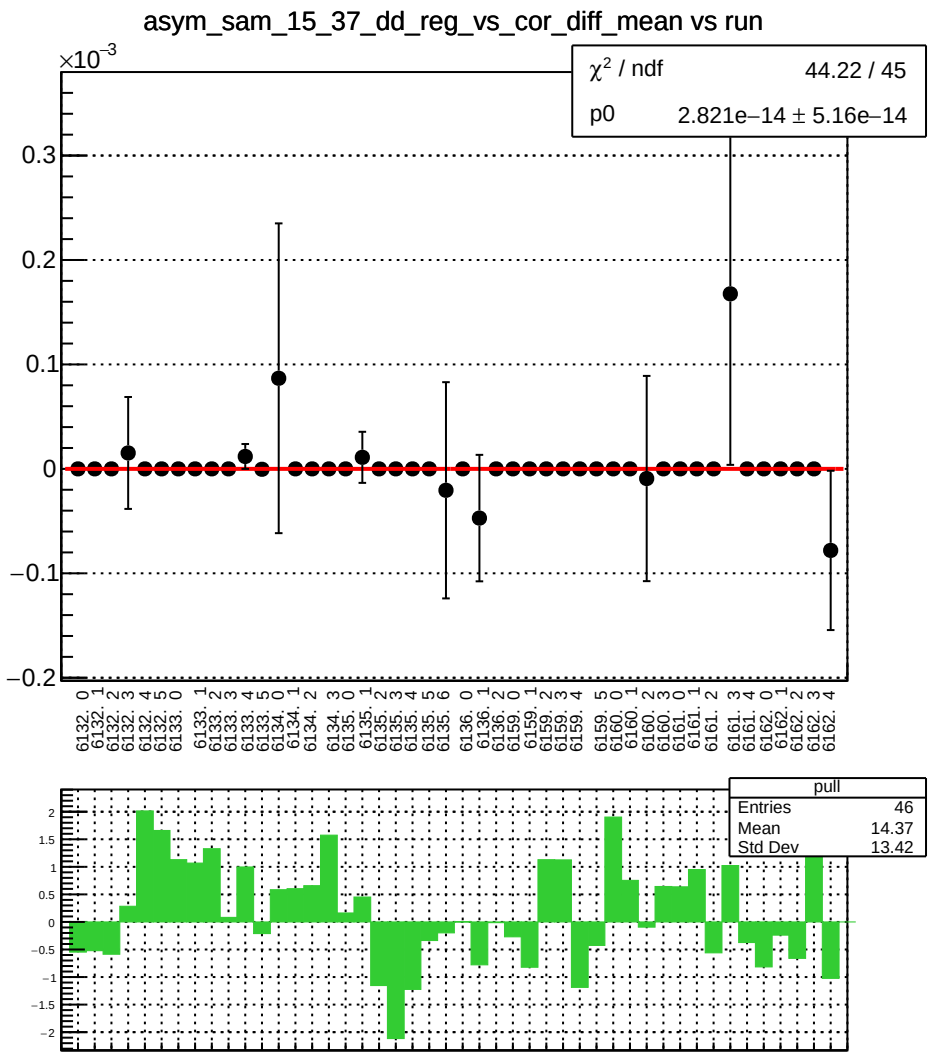
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 44.22 / 45
p0 2.821e−14 ± 5.16e−14
0.3
0.2
0.1
0
−0.1
−0.2
6132. 0
6132. 1
6132. 2
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6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6160. 1
6160. 2
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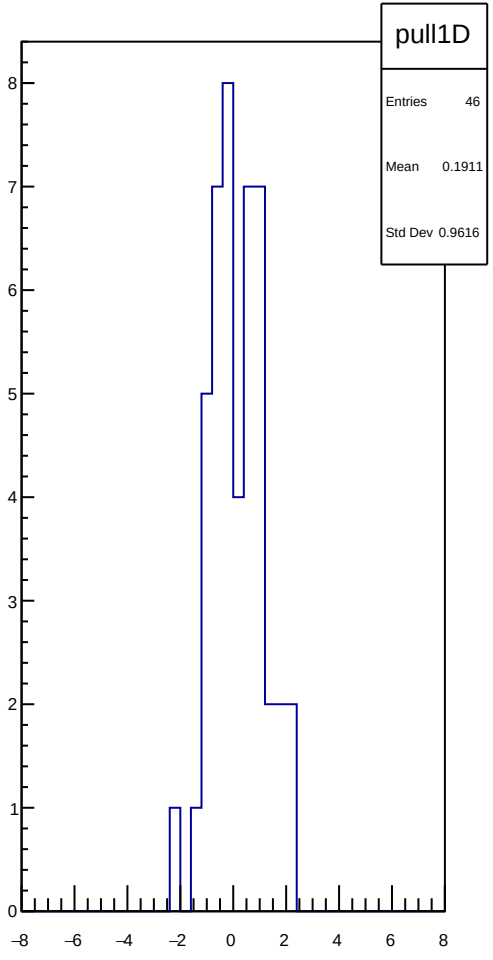
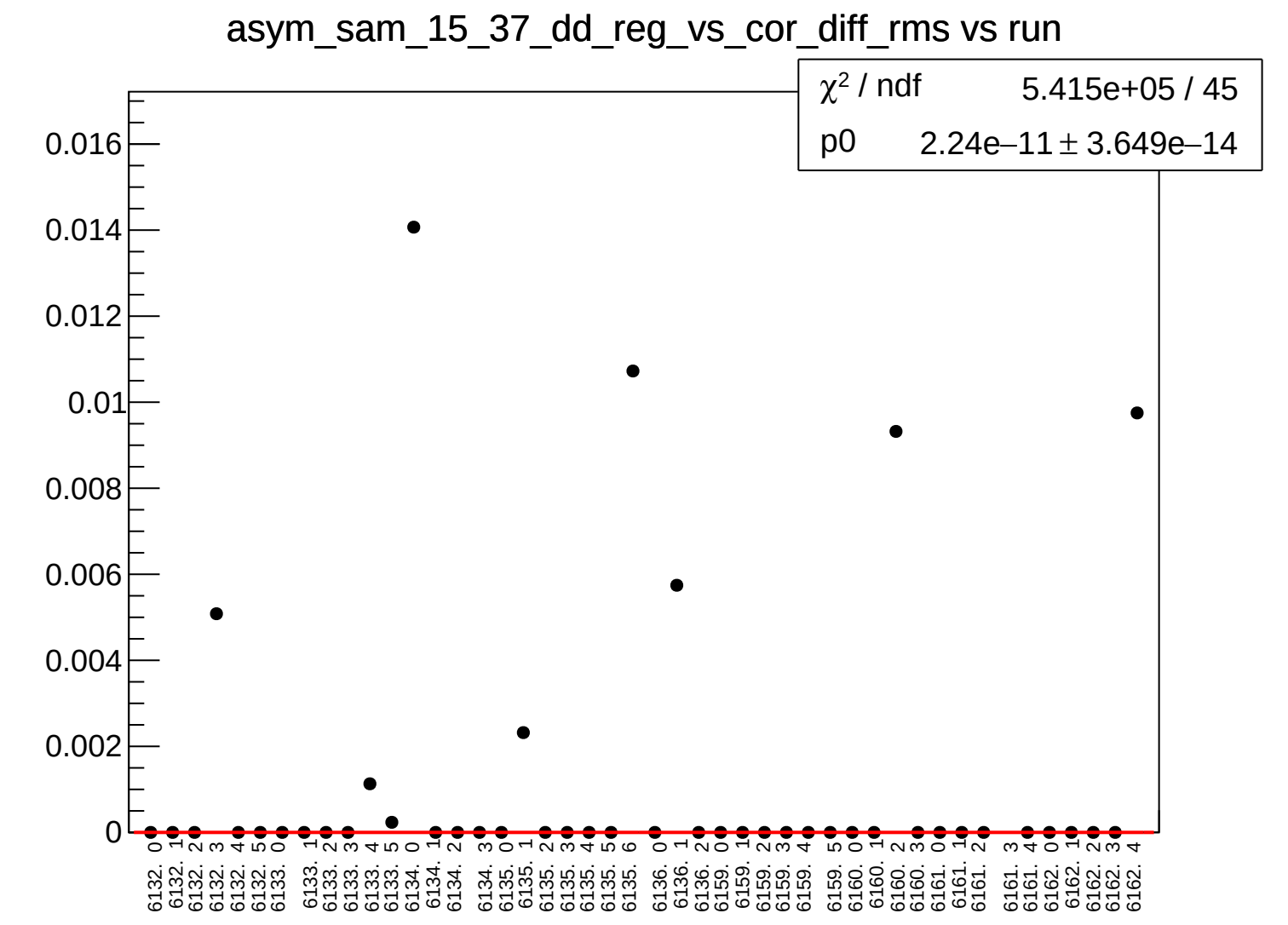
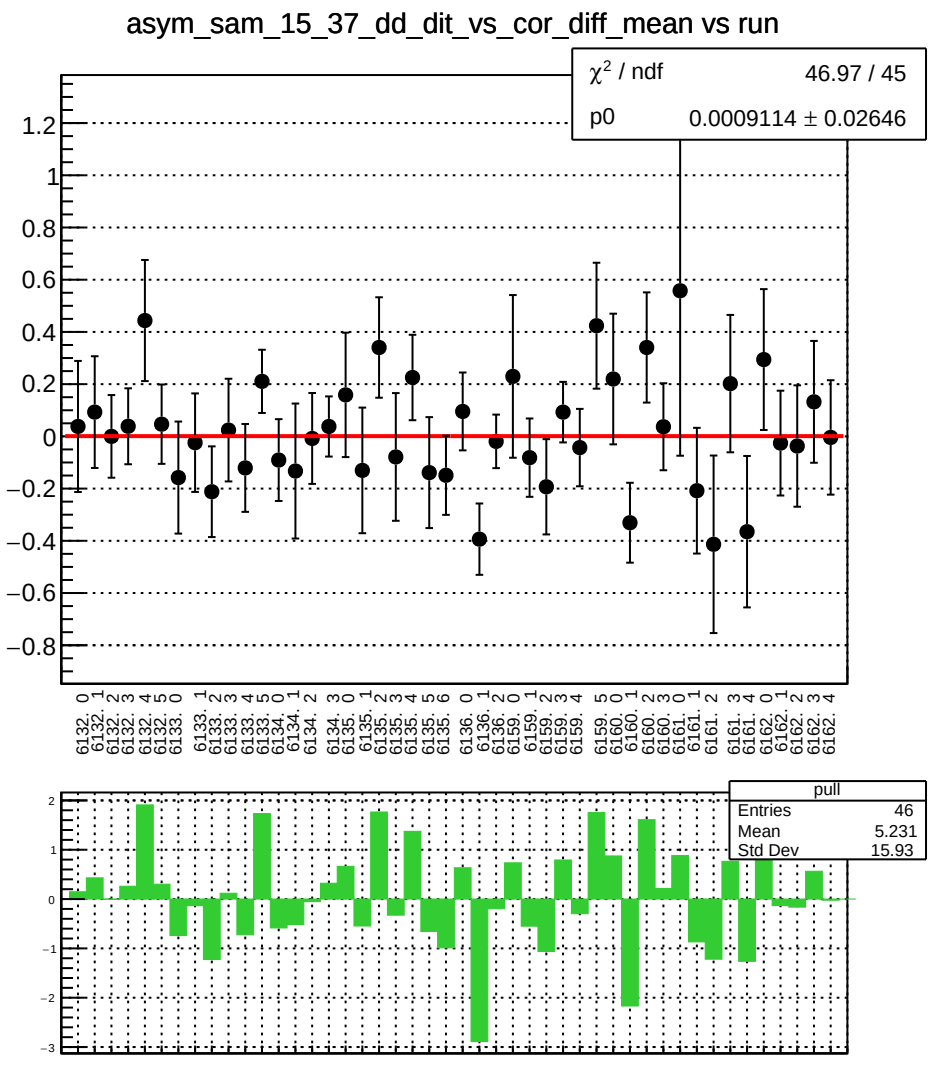
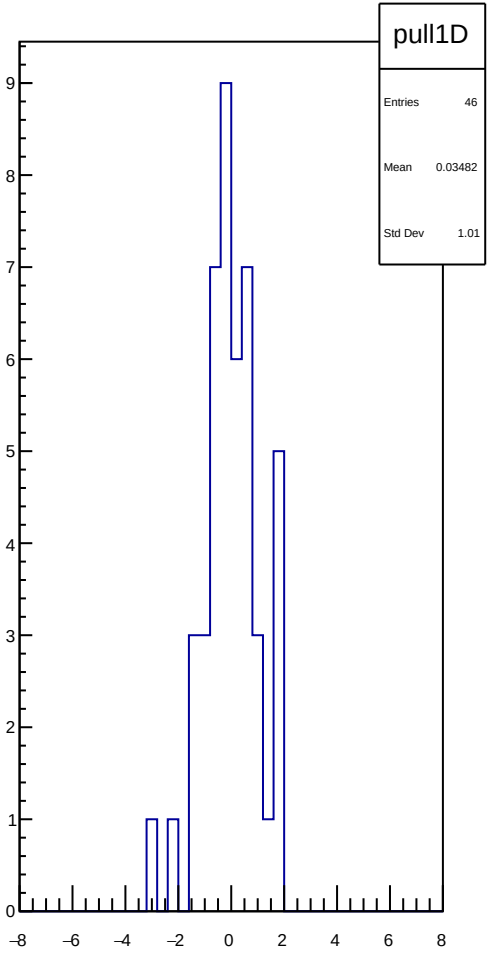
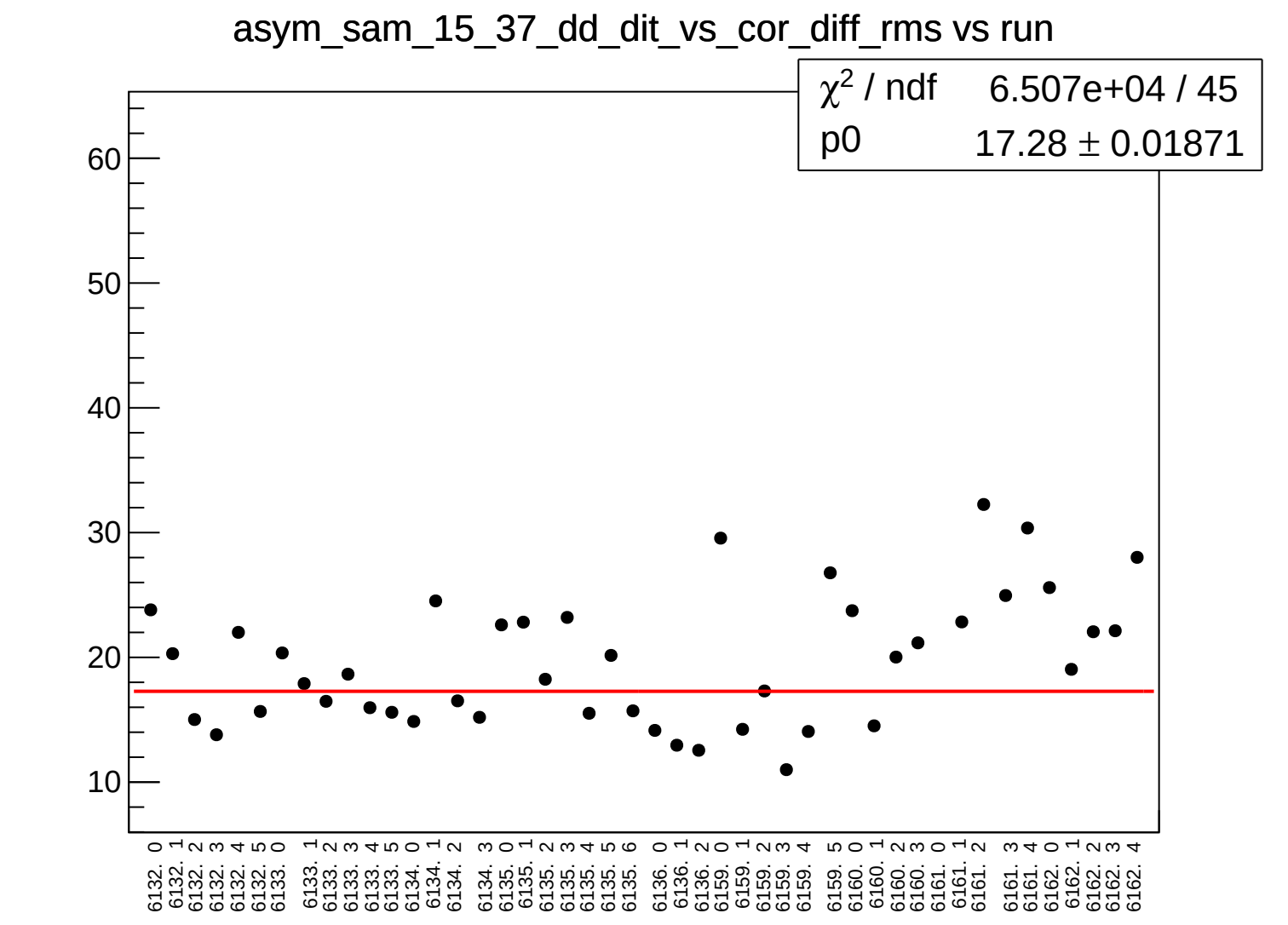
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 14.37
Std Dev 13.42
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

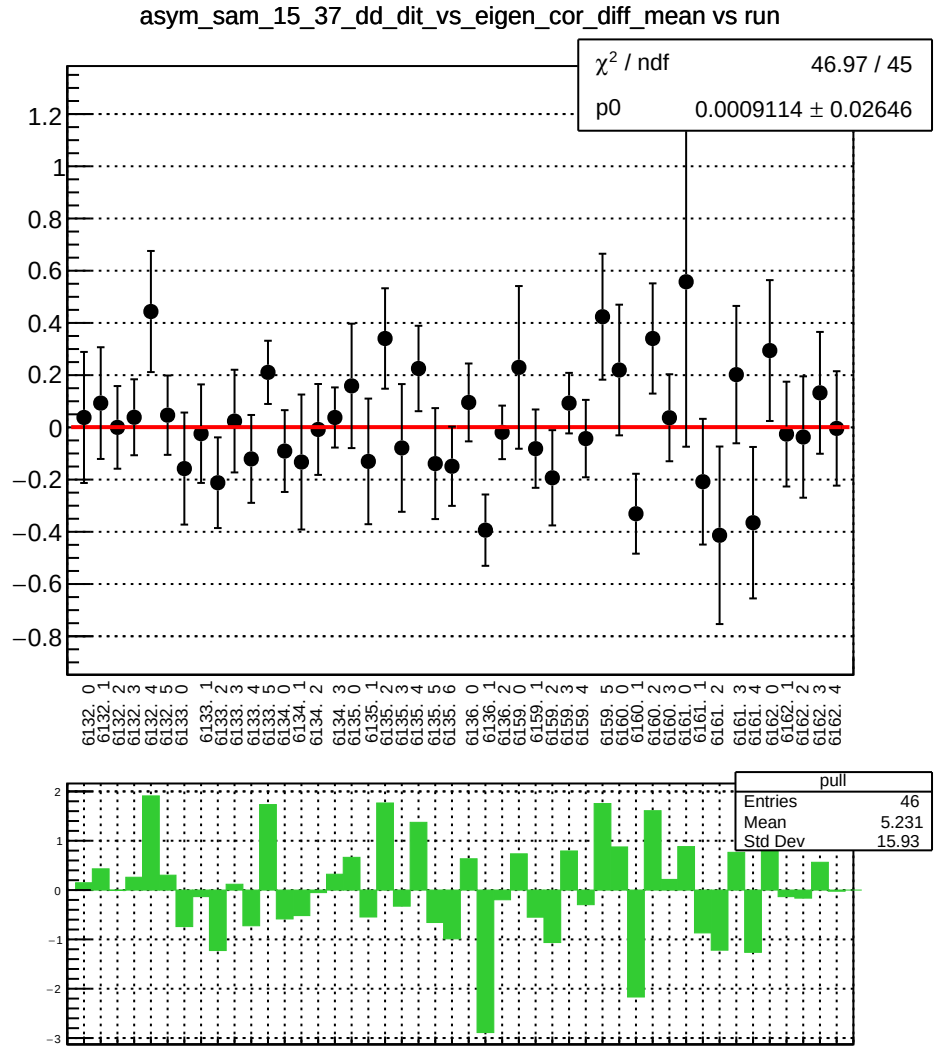

pull1D
Entries 46
Mean 0.1911
Std Dev 0.9616
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

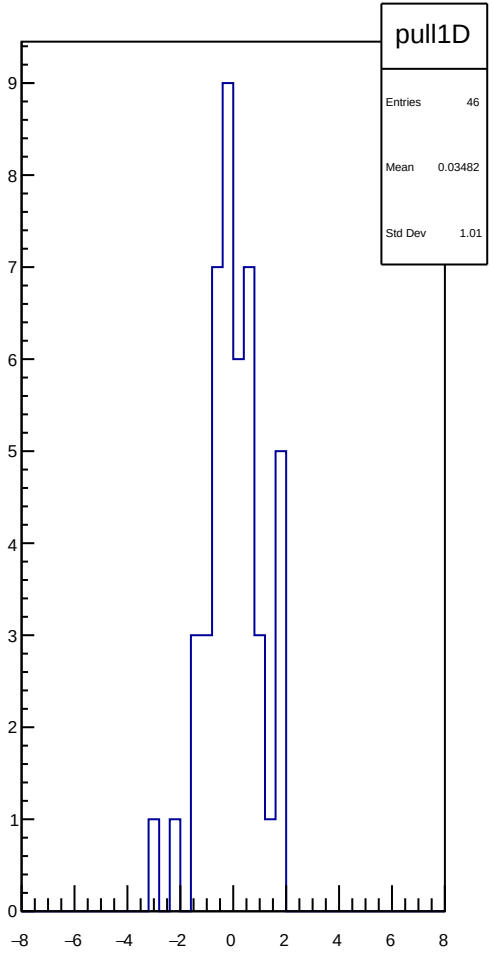

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.415e+05 / 45
p0 2.24e−11 ± 3.649e−14
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

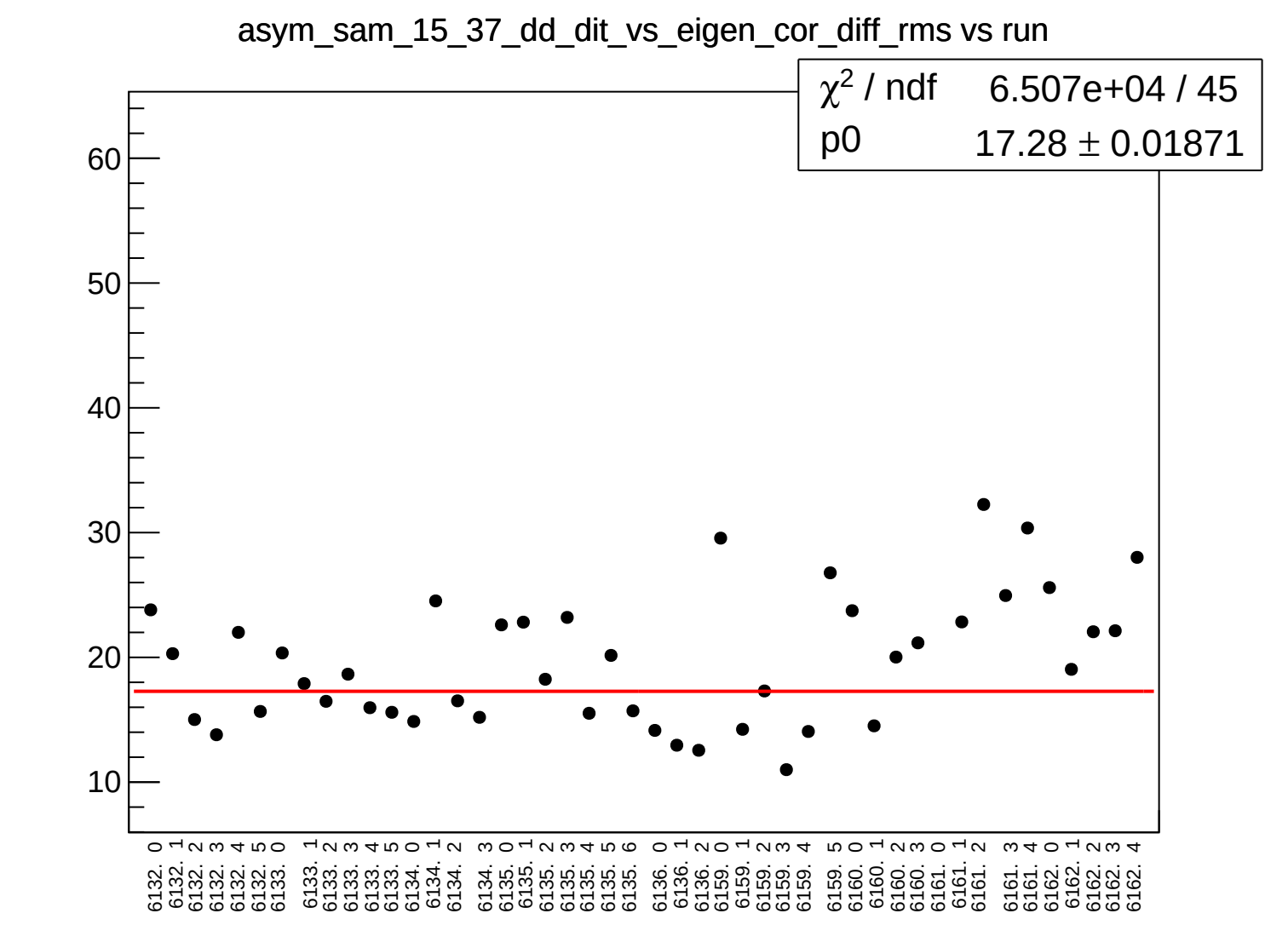

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 46.97 / 45
p0 0.0009114 ± 0.02646
pull
Entries 46
Mean 5.231
Std Dev 15.93

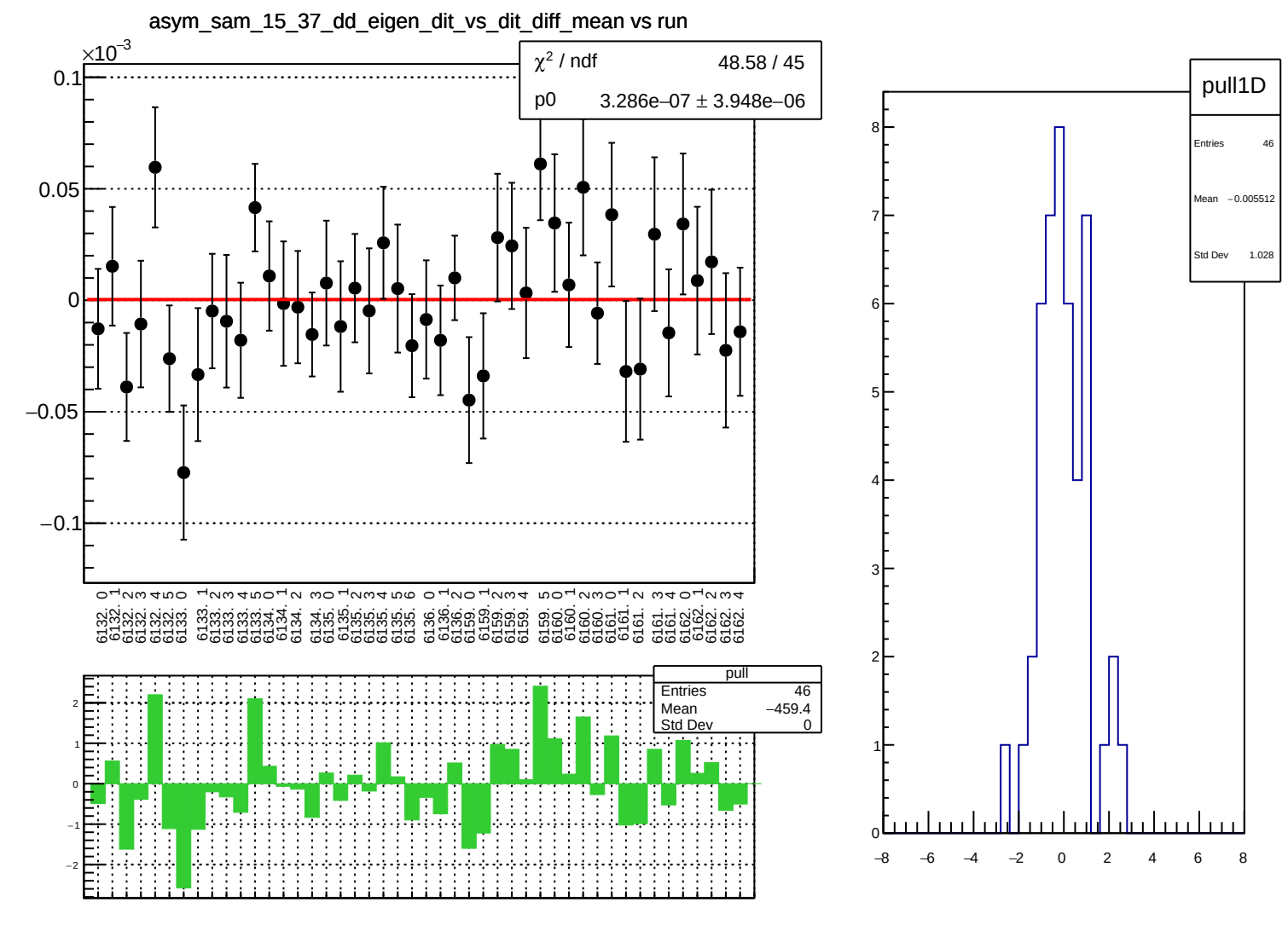

pull1D
Entries 46
Mean 0.03482
Std Dev 1.01

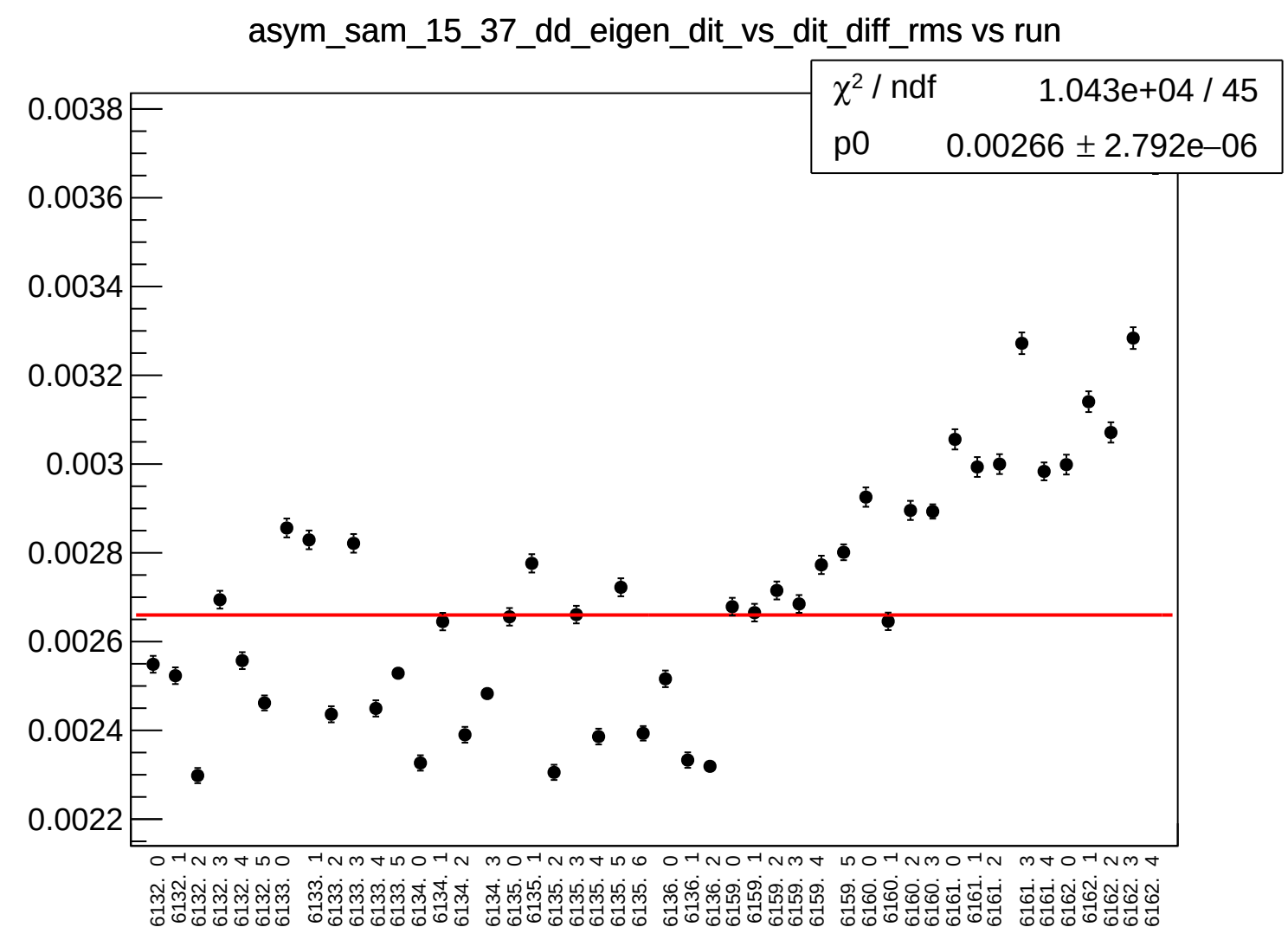

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.507e+04 / 45
p0 17.28 ± 0.01871
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

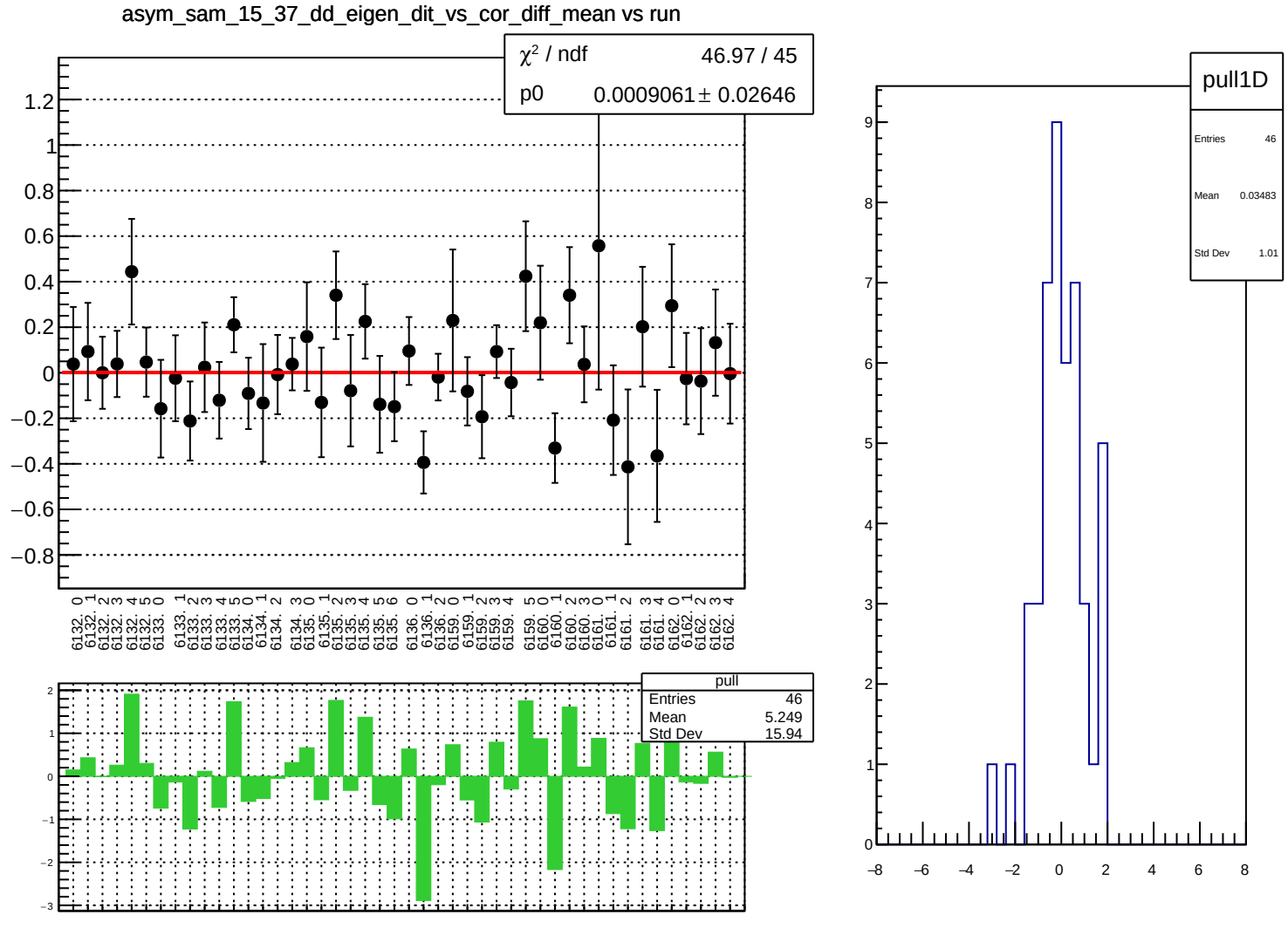

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.97 / 45
p0 0.0009114 ± 0.02646
pull
Entries 46
Mean 5.231
Std Dev 15.93

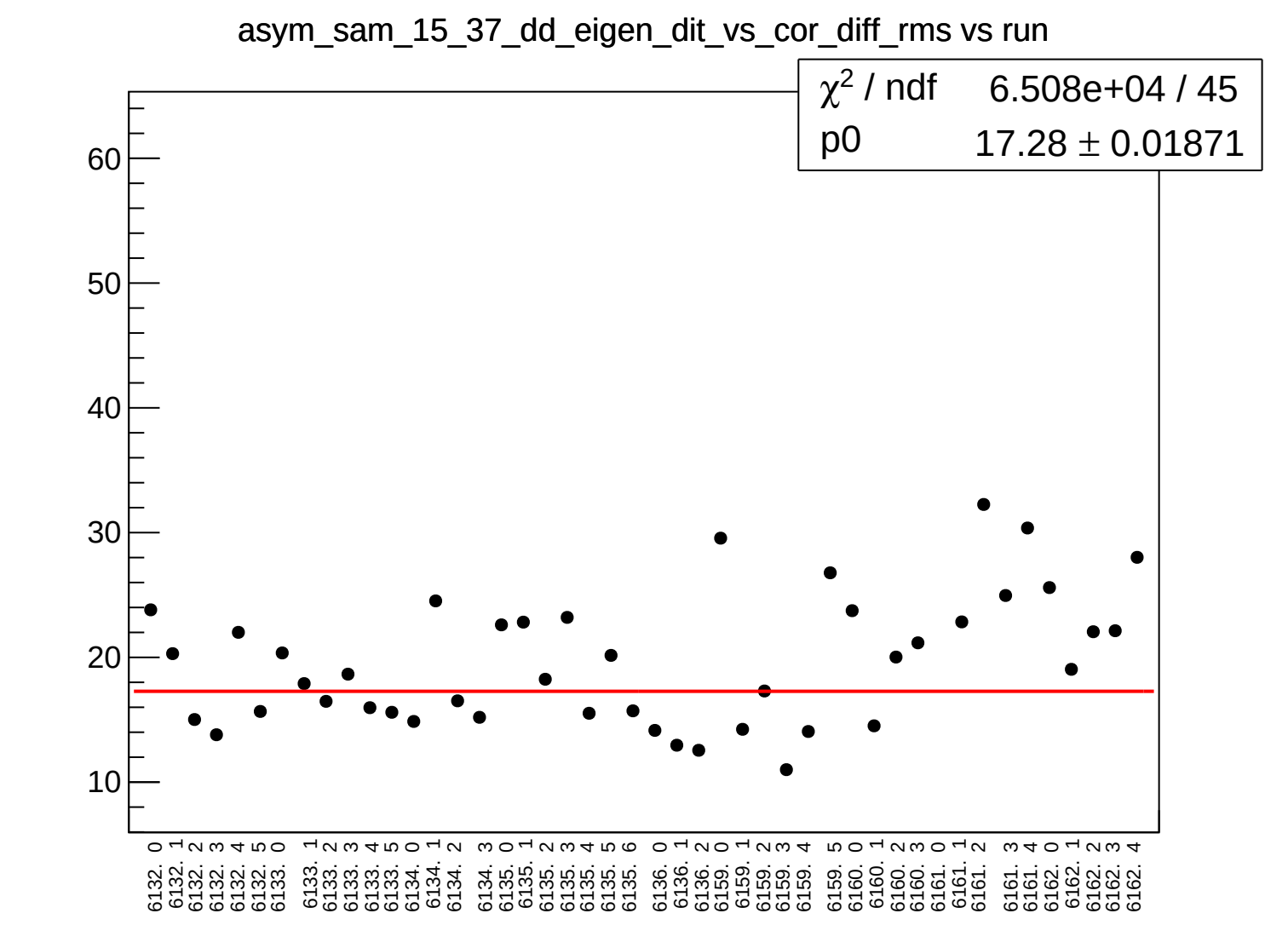

pull1D
Entries 46
Mean 0.03482
Std Dev 1.01

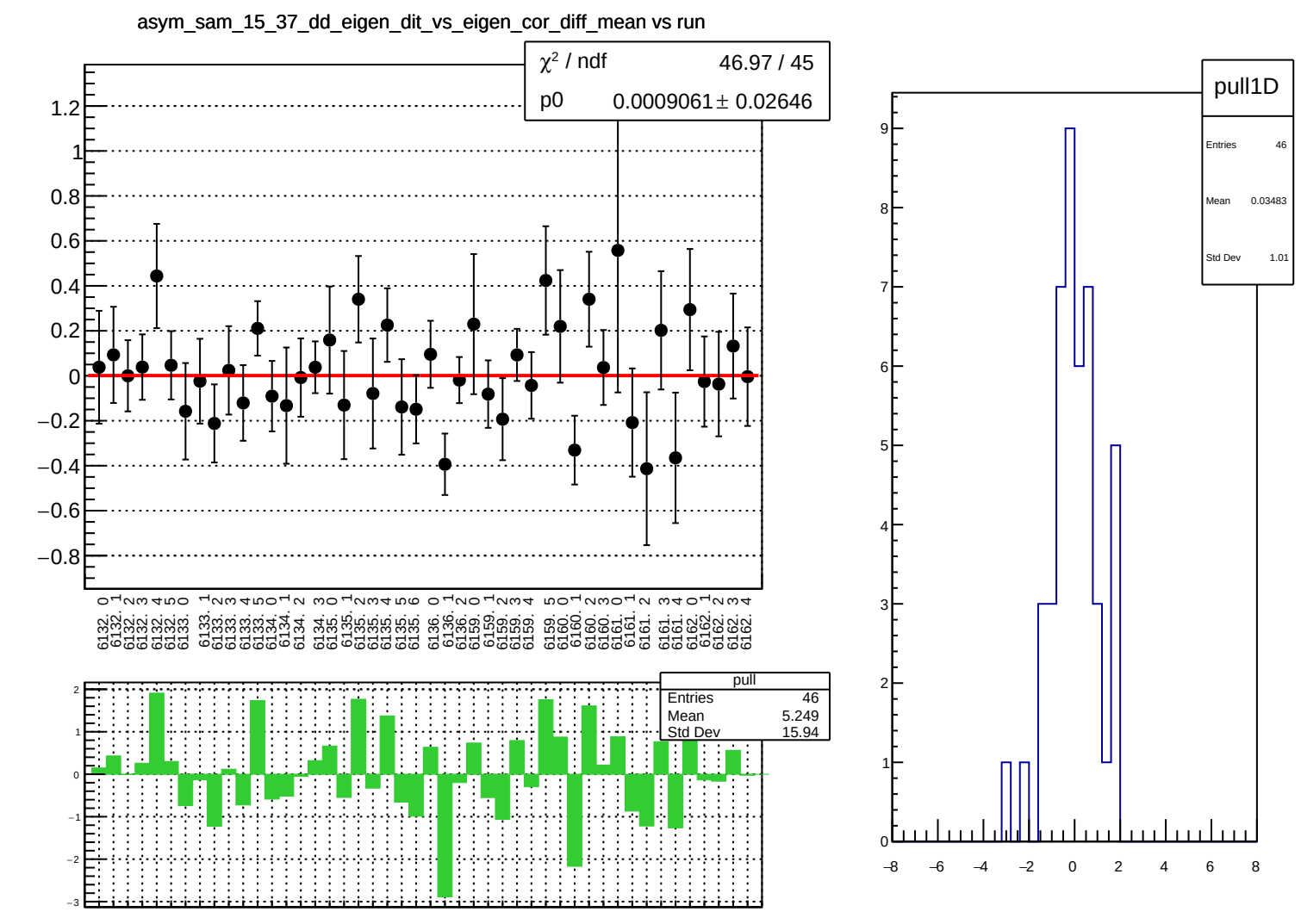

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.507e+04 / 45
p0 17.28 ± 0.01871
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

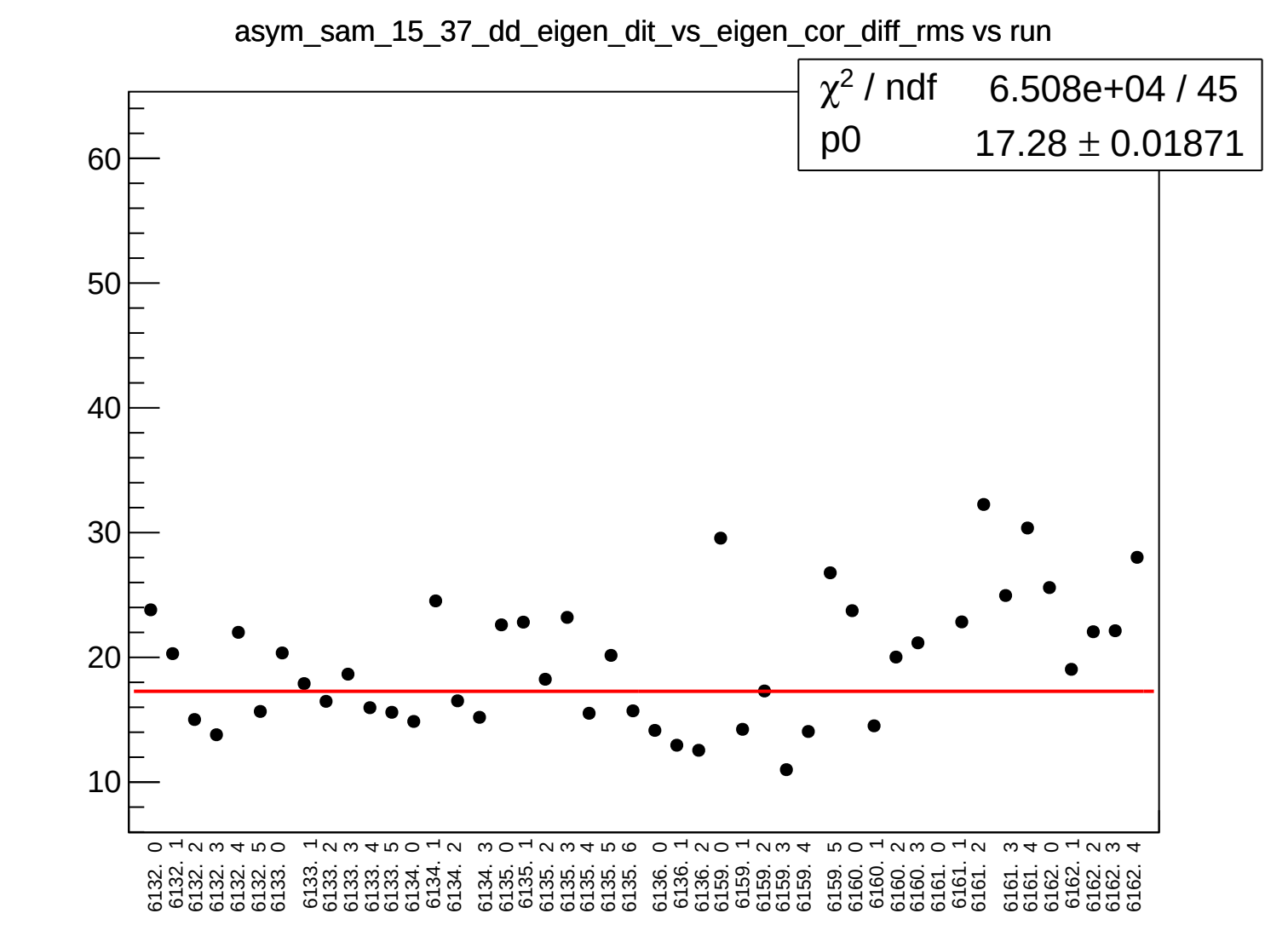

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 48.58 / 45
p0 3.286e−07 ± 3.948e−06
0.1
0.05
0
−0.05
−0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −459.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.005512
Std Dev 1.028
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

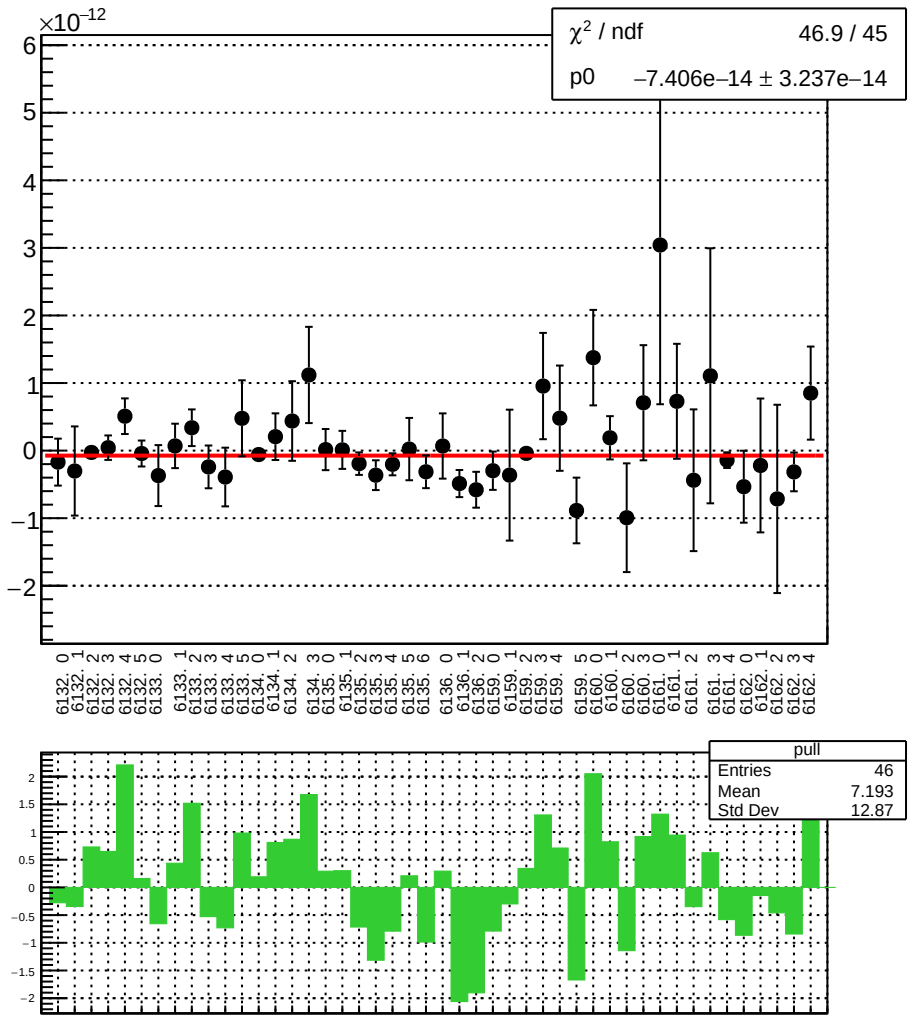

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.043e+04 / 45
p0 0.00266 ± 2.792e–06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

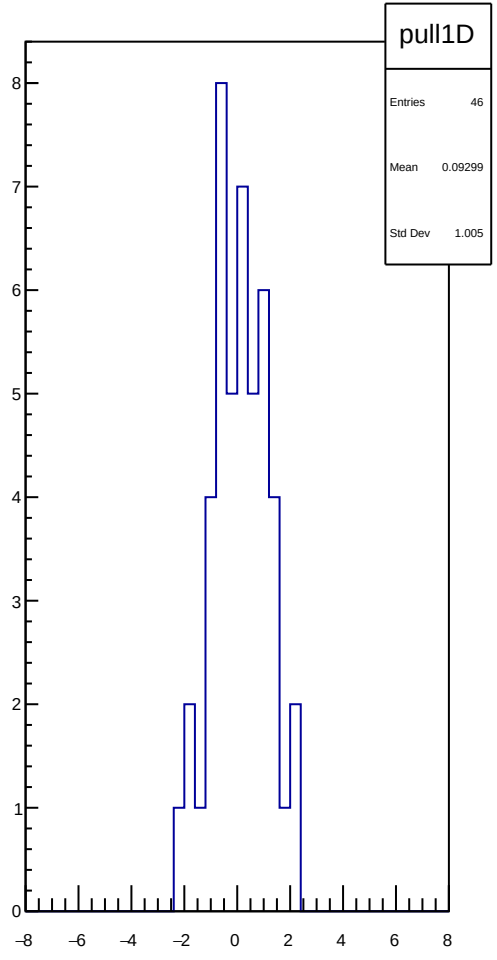

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.97 / 45
p0 0.0009061 ± 0.02646
pull
Entries 46
Mean 5.249
Std Dev 15.94
pull1D
Entries 46
Mean 0.03483
Std Dev 1.01

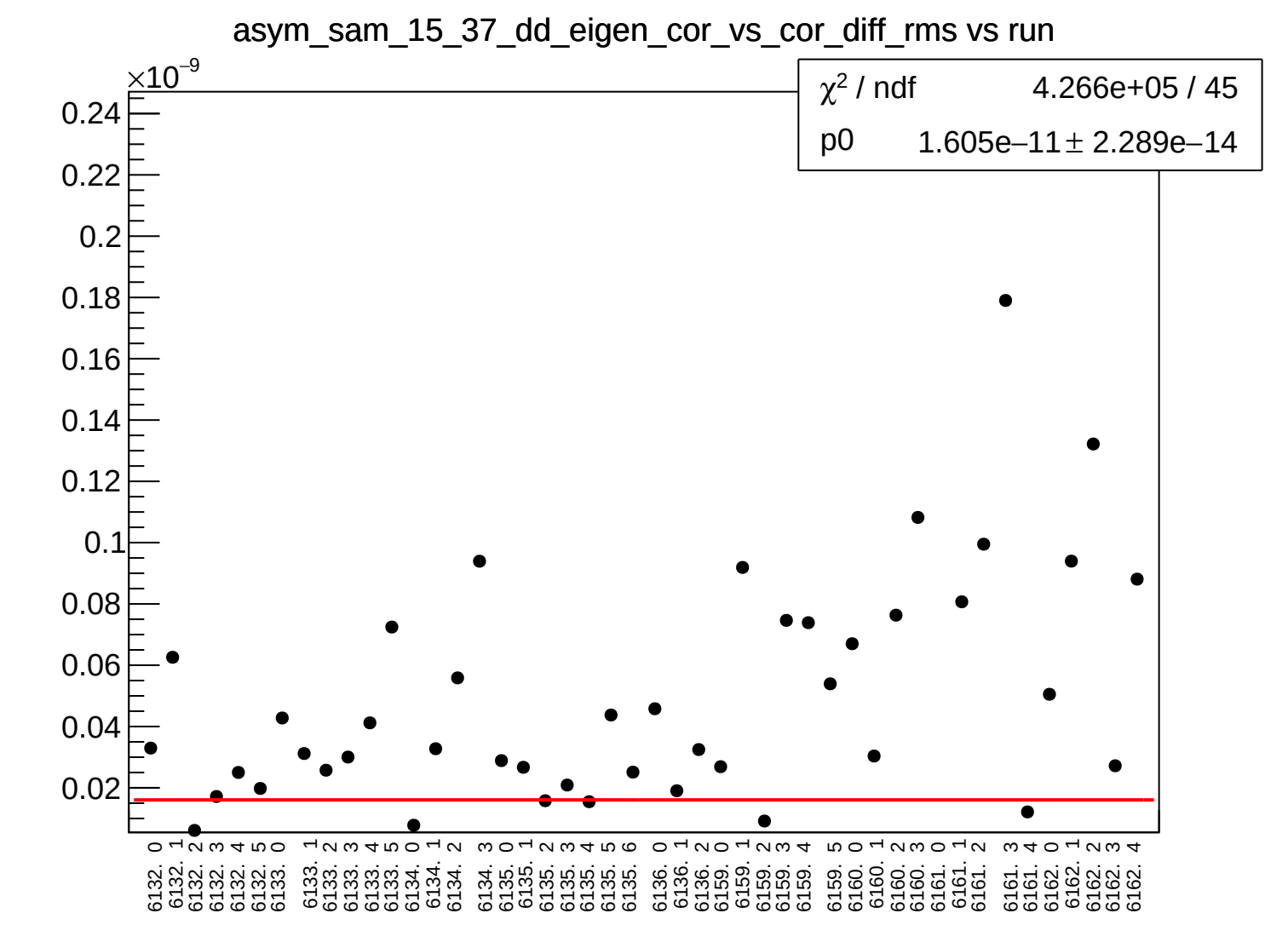

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.508e+04 / 45
p0 17.28 ± 0.01871
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

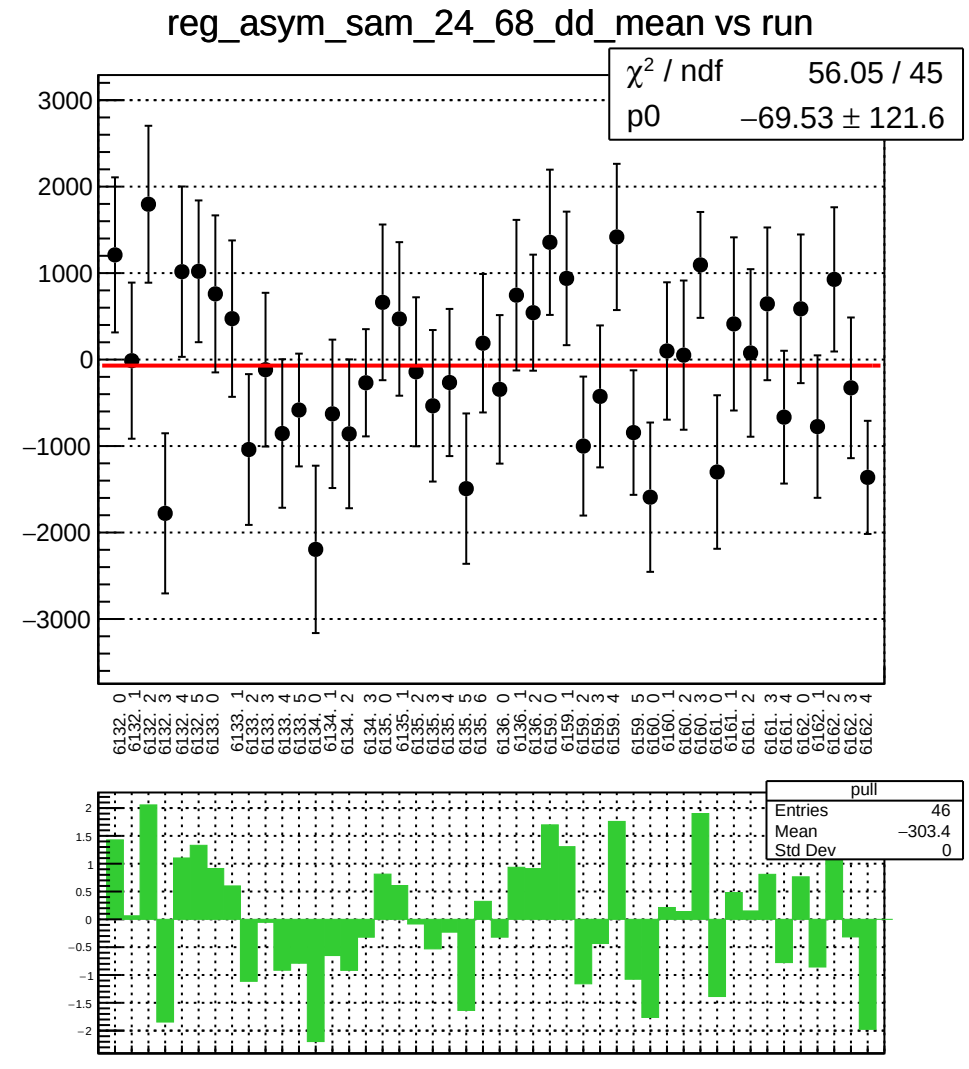

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.97 / 45
p0 0.0009061 ± 0.02646
pull
Entries 46
Mean 5.249
Std Dev 15.94
pull1D
Entries 46
Mean 0.03483
Std Dev 1.01

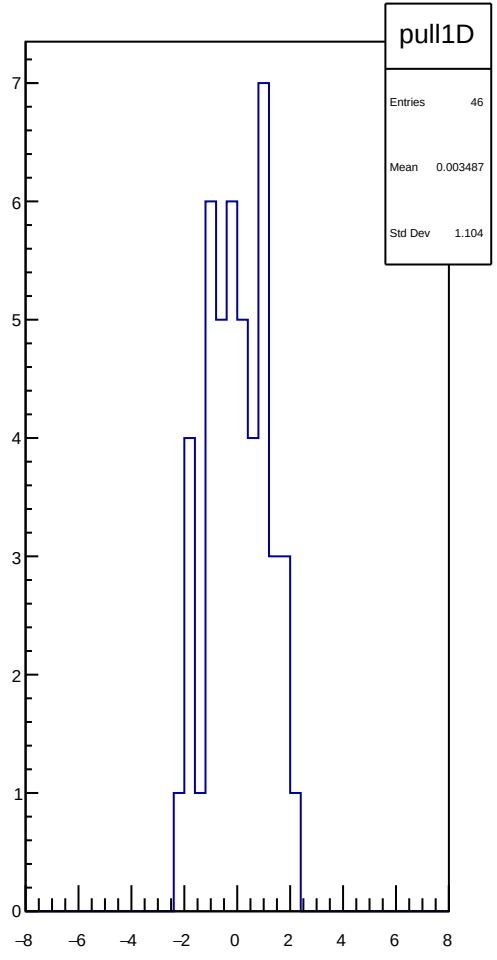

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ2 / ndf 6.508e+04 / 45
p0 17.28 ± 0.01871
60
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

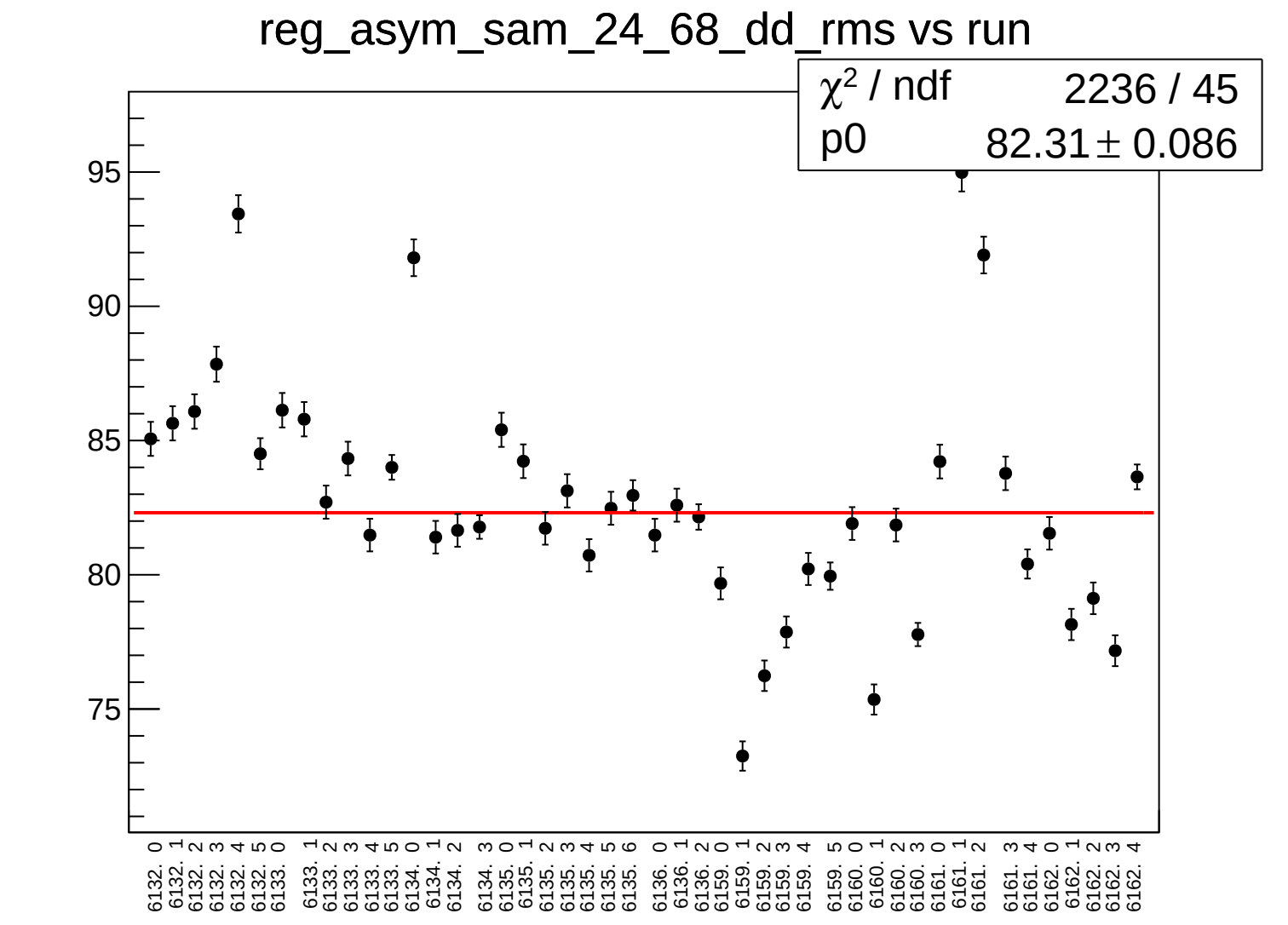

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 46.9 / 45
p0 −7.406e−14 ± 3.237e−14
pull
Entries 46
Mean 7.193
Std Dev 12.87

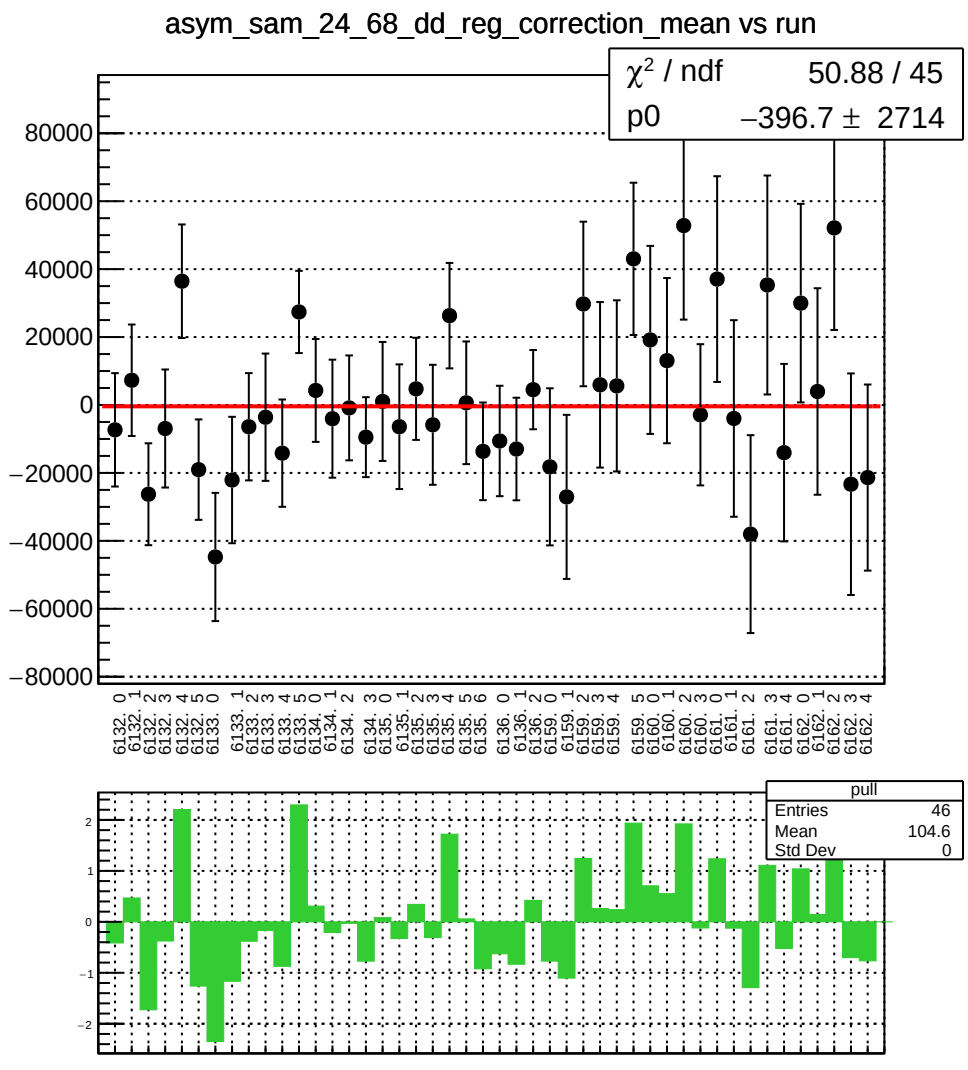

pull1D
Entries 46
Mean 0.09299
Std Dev 1.005

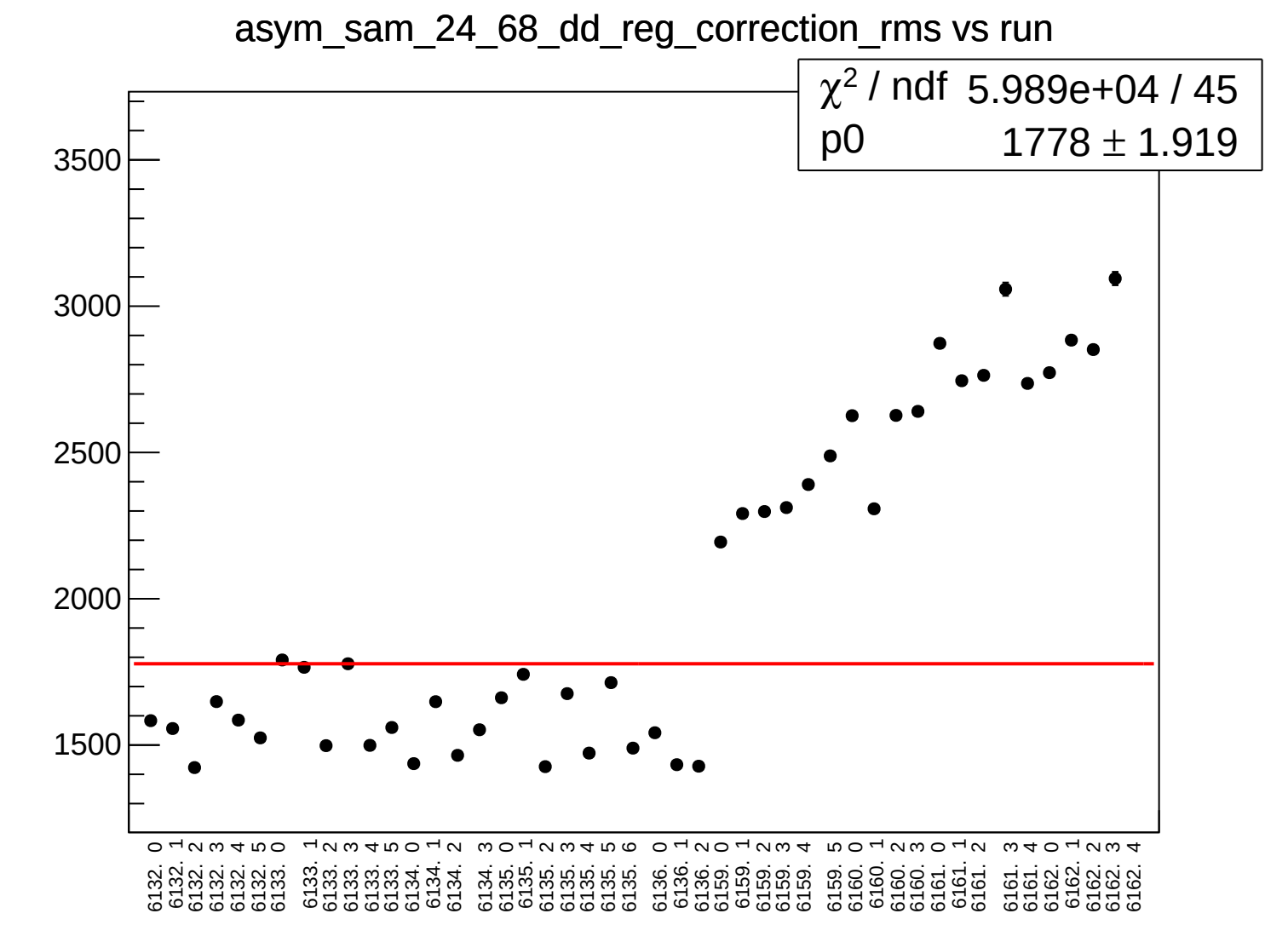

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.266e+05 / 45
p0 1.605e−11 ± 2.289e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

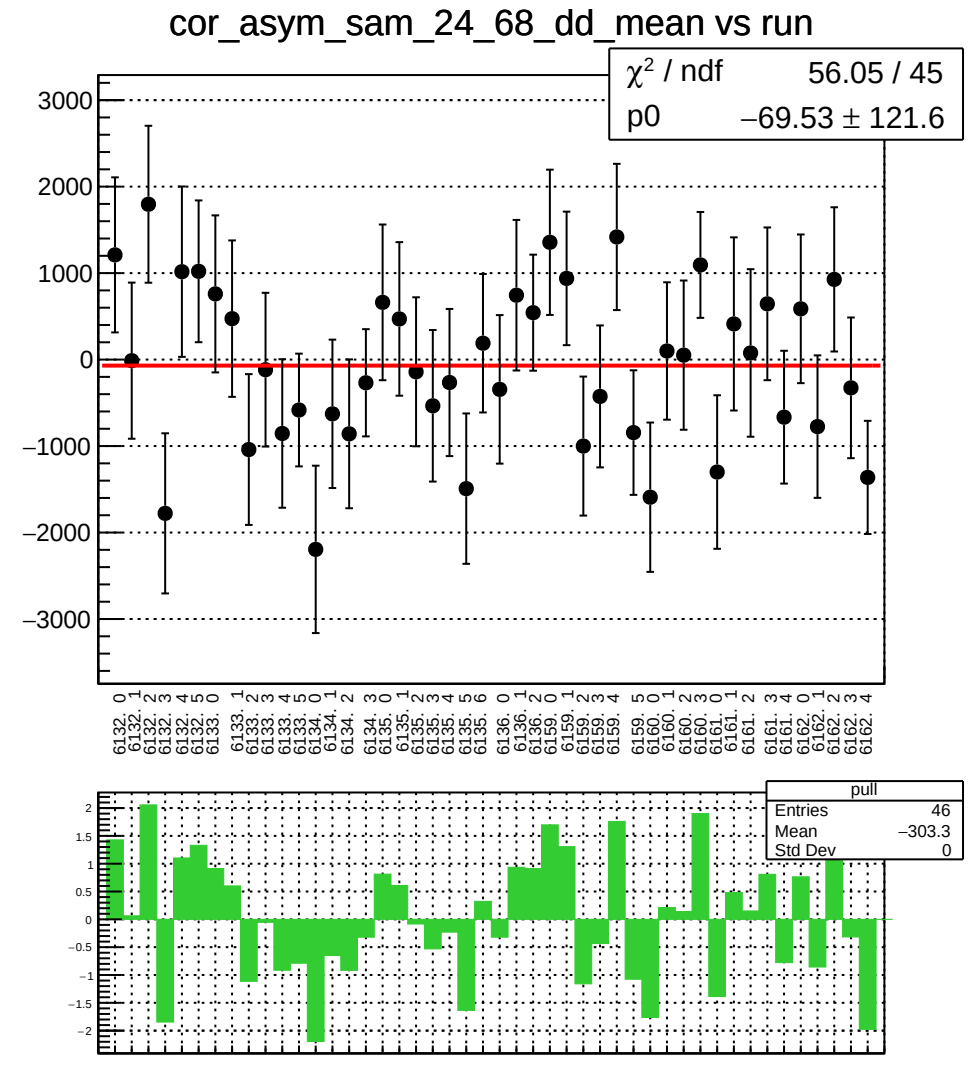

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 56.05 / 45
p0 −69.53 ± 121.6
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −303.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

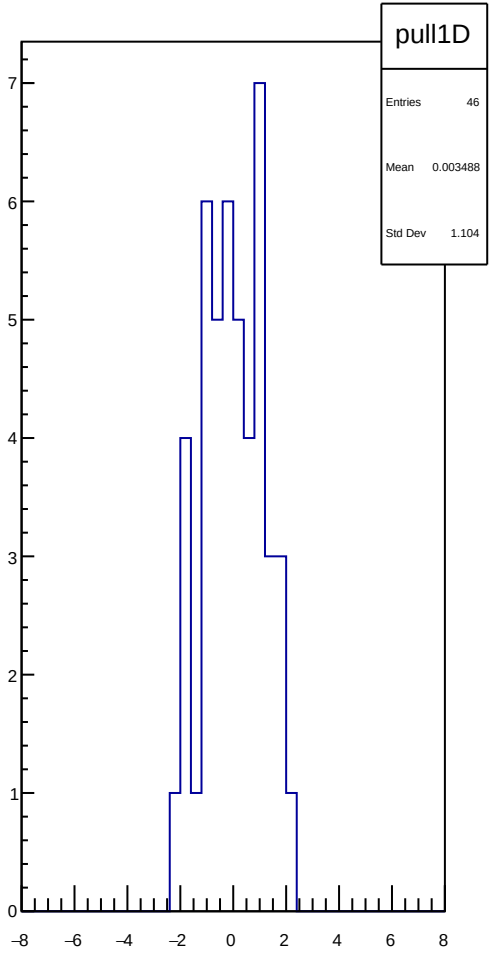

pull1D
Entries 46
Mean 0.003487
Std Dev 1.104
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

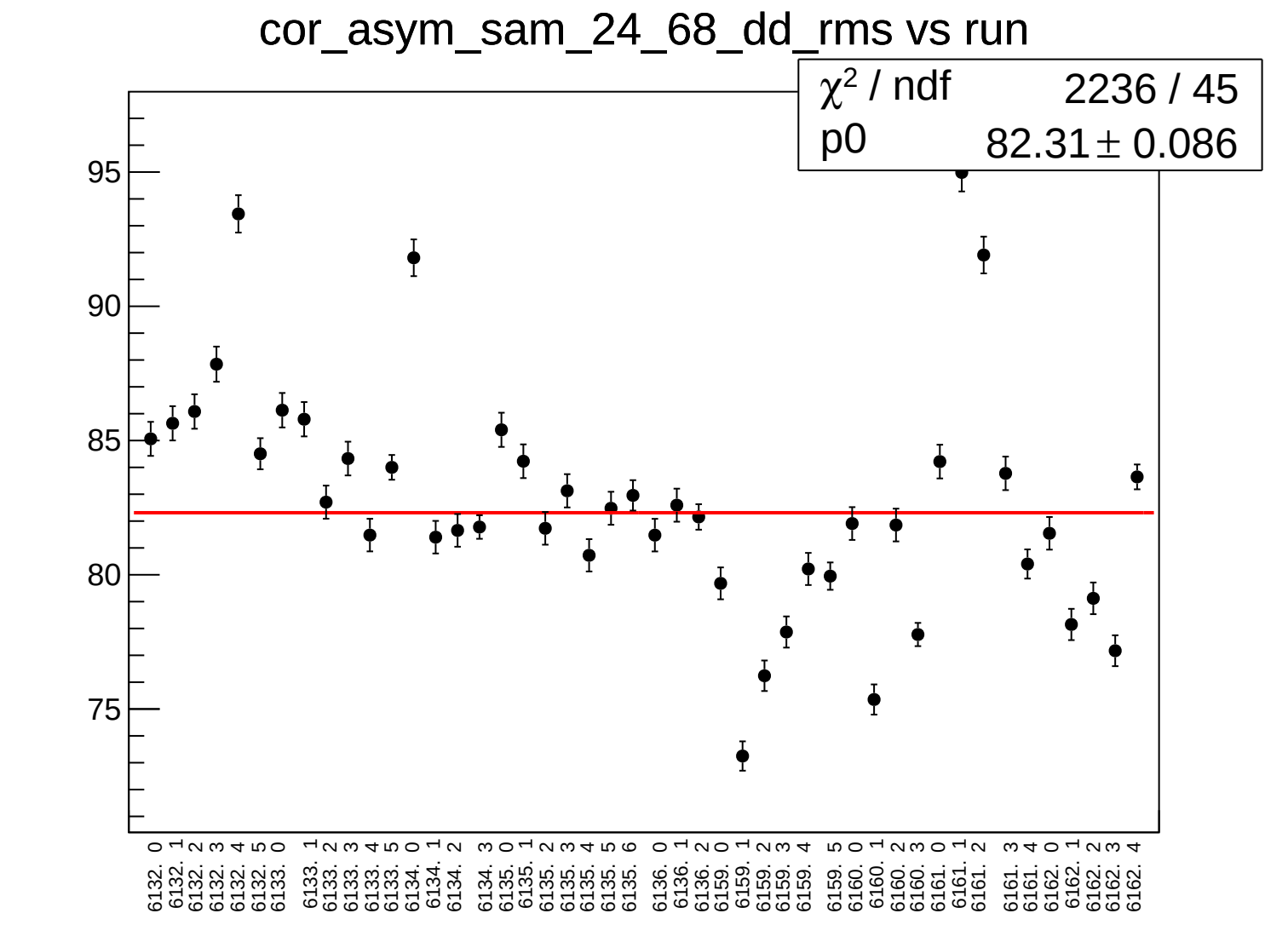

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 2236 / 45
p0 82.31 ± 0.086
95
90
85
80
75
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

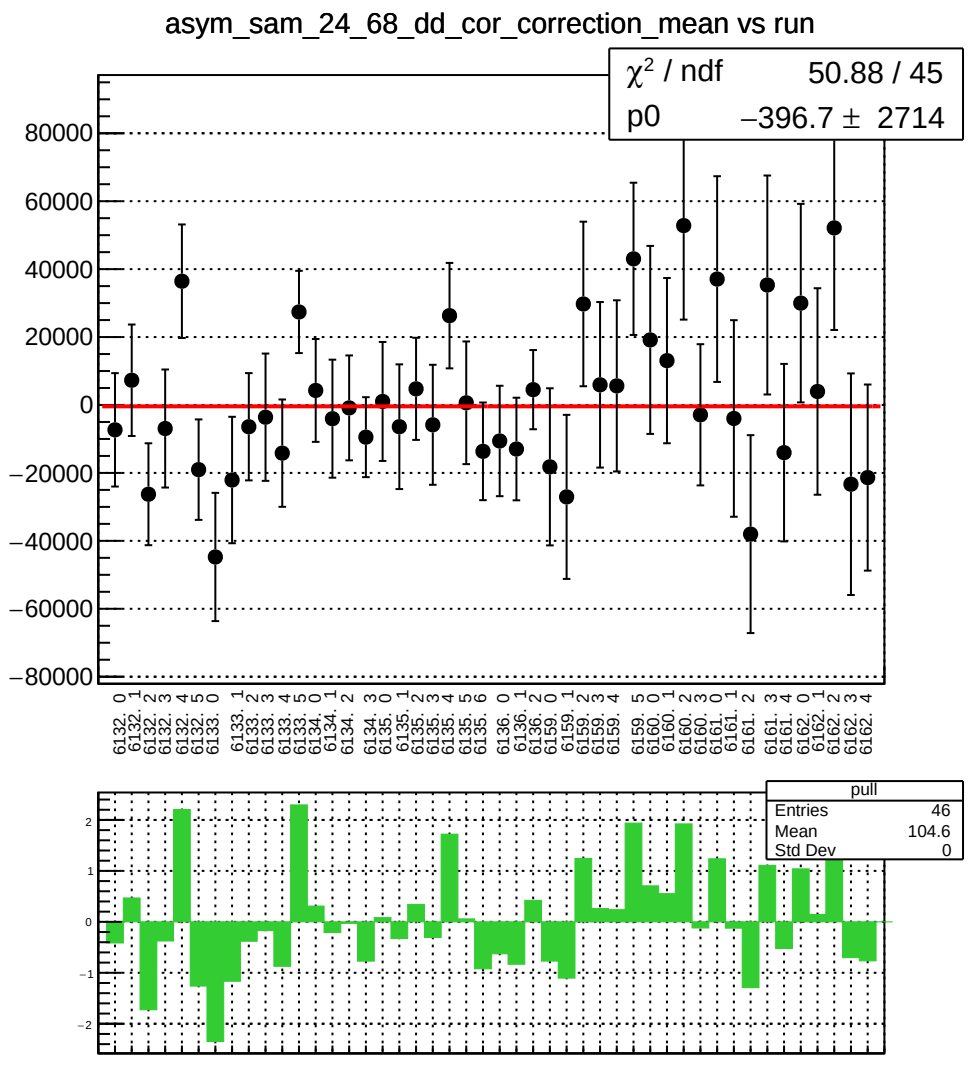

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 50.88 / 45
p0 −396.7 ± 2714
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 104.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.04139
Std Dev 1.051
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

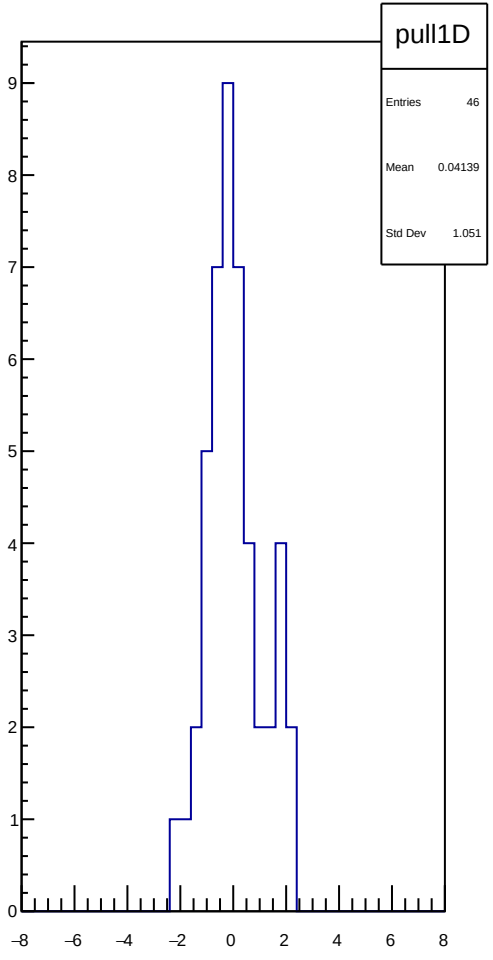

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 5.989e+04 / 45
p0 1778 ± 1.919
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

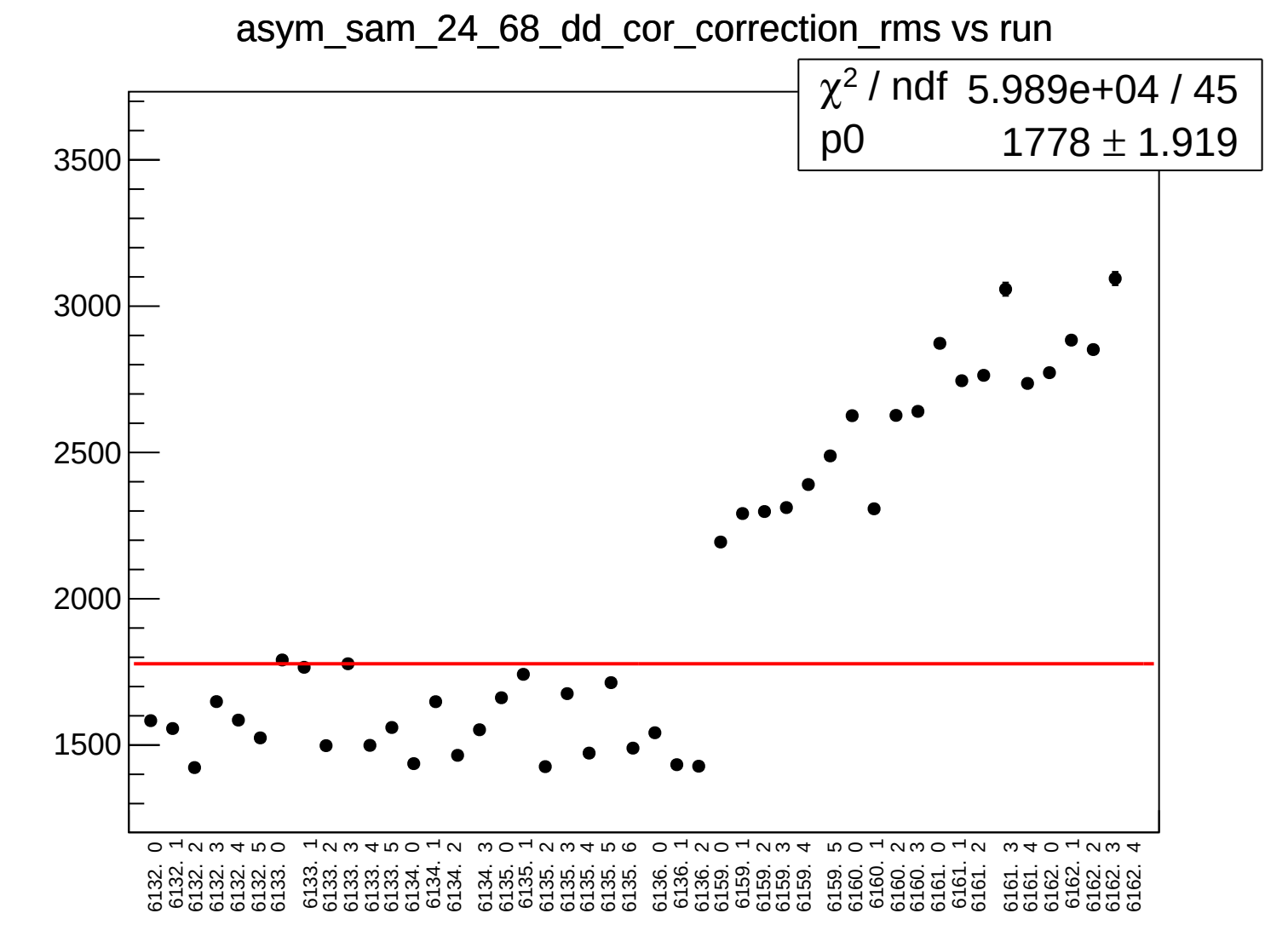

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 56.05 / 45
p0 −69.53 ± 121.6
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −303.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

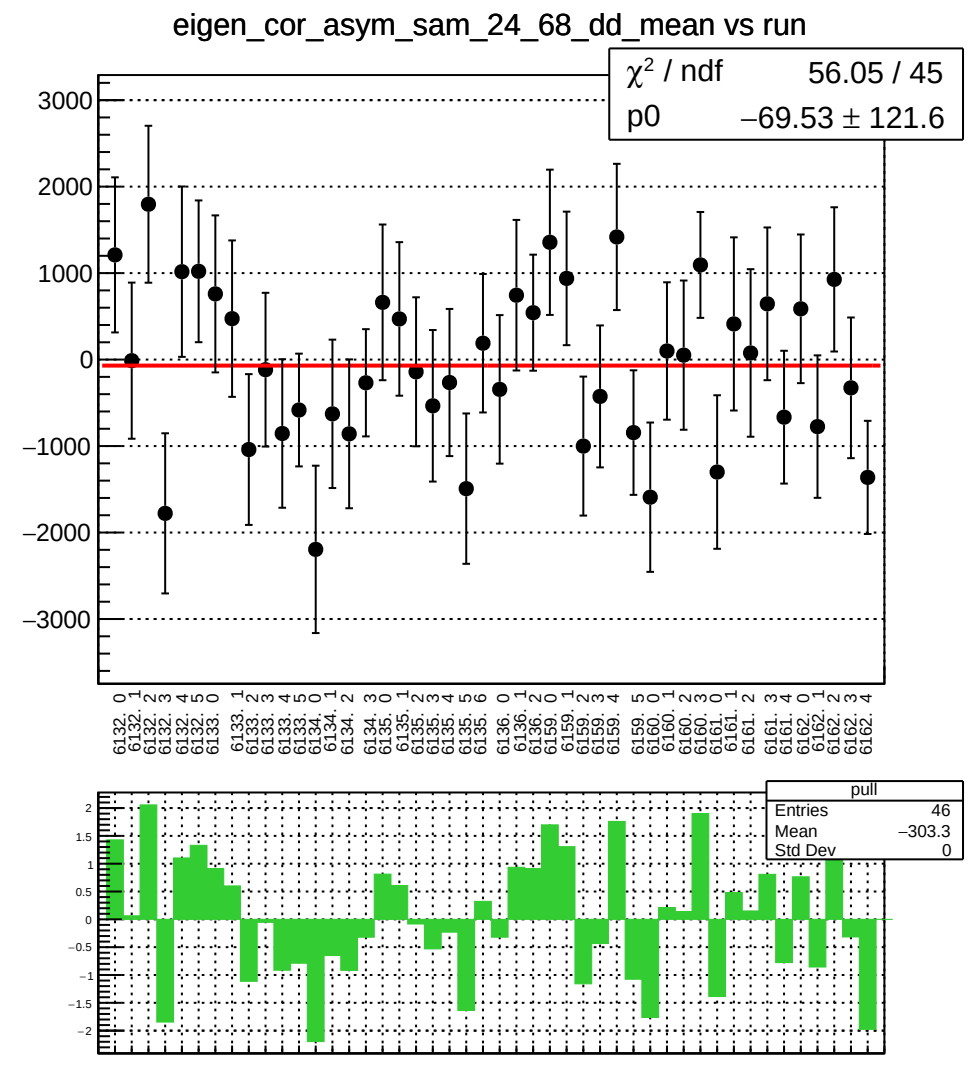

pull1D
Entries 46
Mean 0.003488
Std Dev 1.104
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

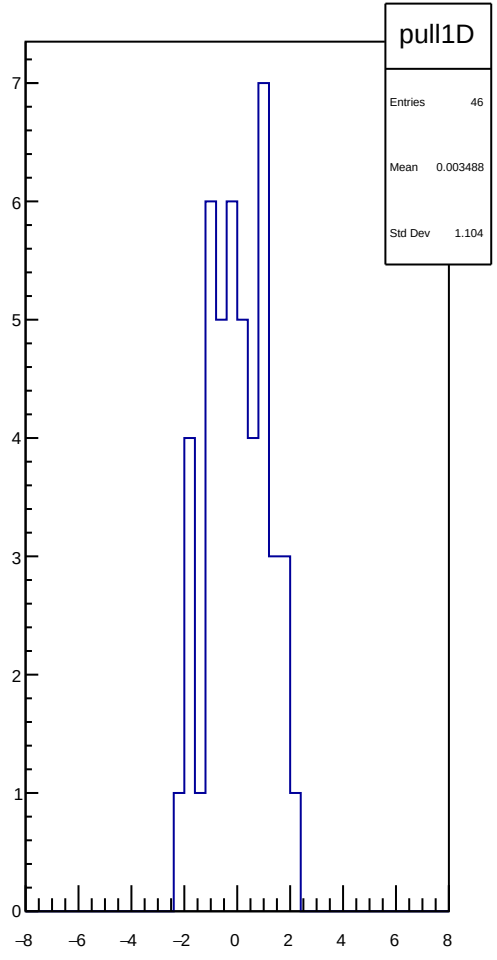

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 2236 / 45
p0 82.31 ± 0.086
95
90
85
80
75
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

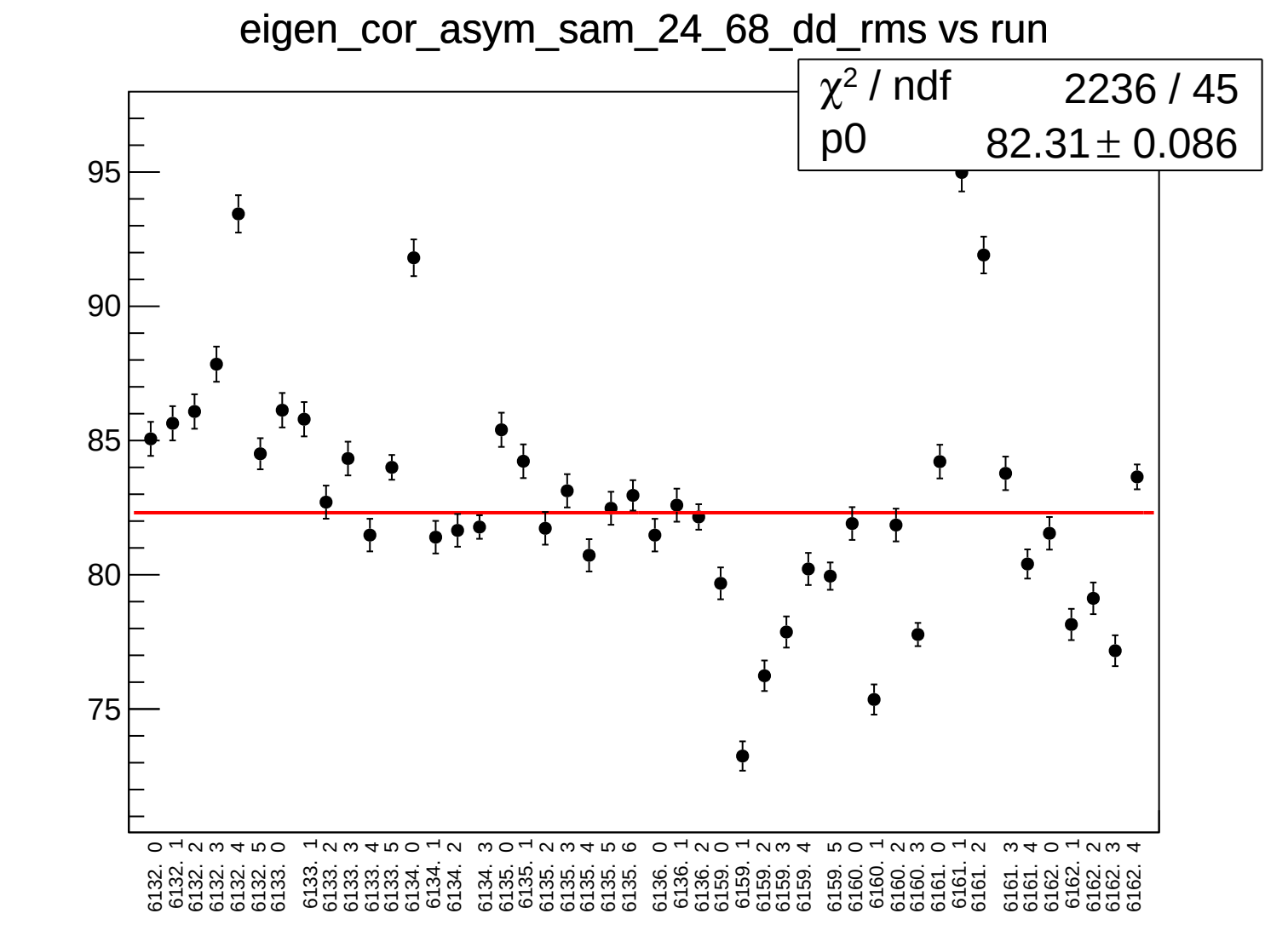

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 50.88 / 45
p0 −396.7 ± 2714
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 104.6
Std Dev 0
2
1
0
−1
−2

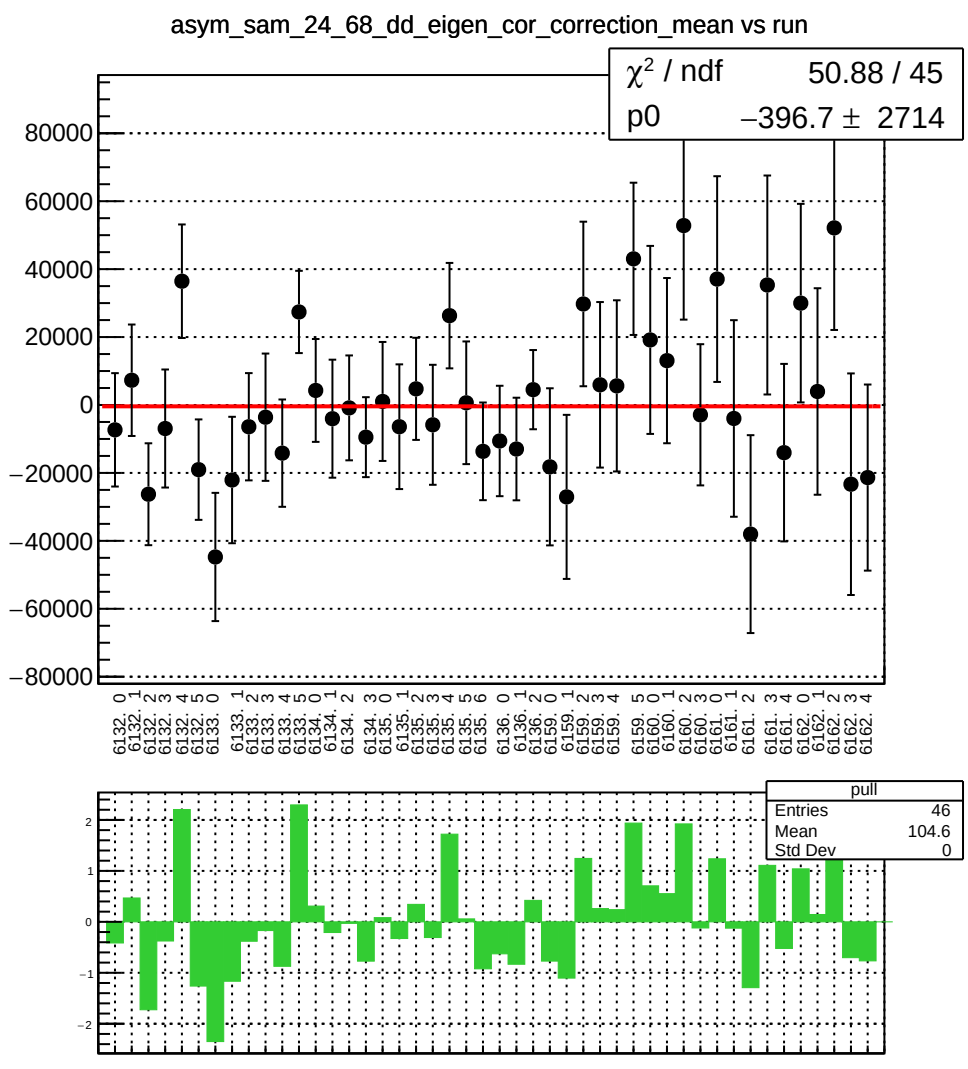

pull1D
Entries 46
Mean 0.04139
Std Dev 1.051
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

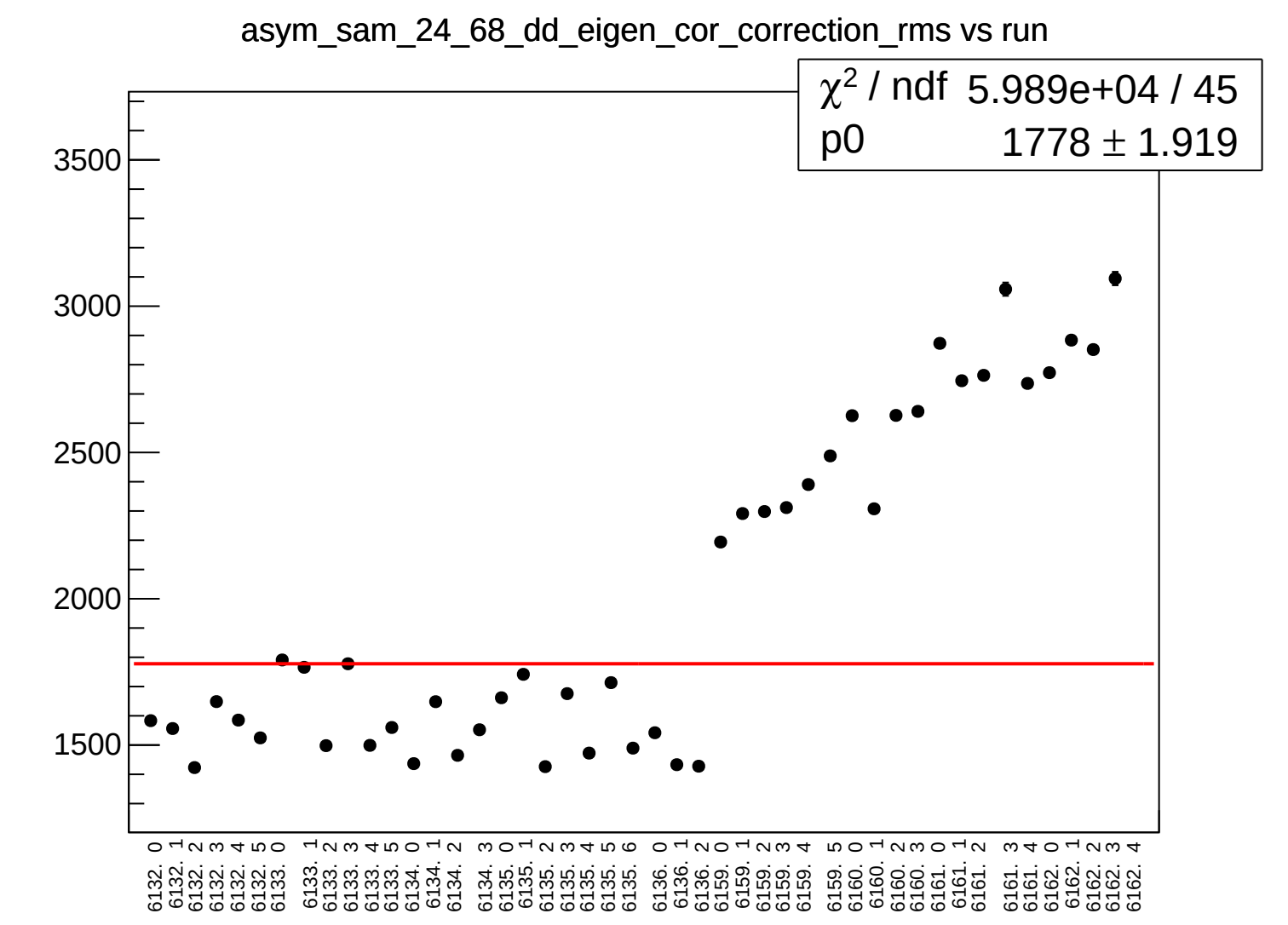

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 5.989e+04 / 45
p0 1778 ± 1.919
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 56.05 / 45
p0 −69.53 ± 121.6
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −303.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.003488
Std Dev 1.104
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 2236 / 45
p0 82.31 ± 0.086
95
90
85
80
75
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 50.88 / 45
p0 −396.7 ± 2714
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 104.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.04139
Std Dev 1.051
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.989e+04 / 45
p0 1778 ± 1.919
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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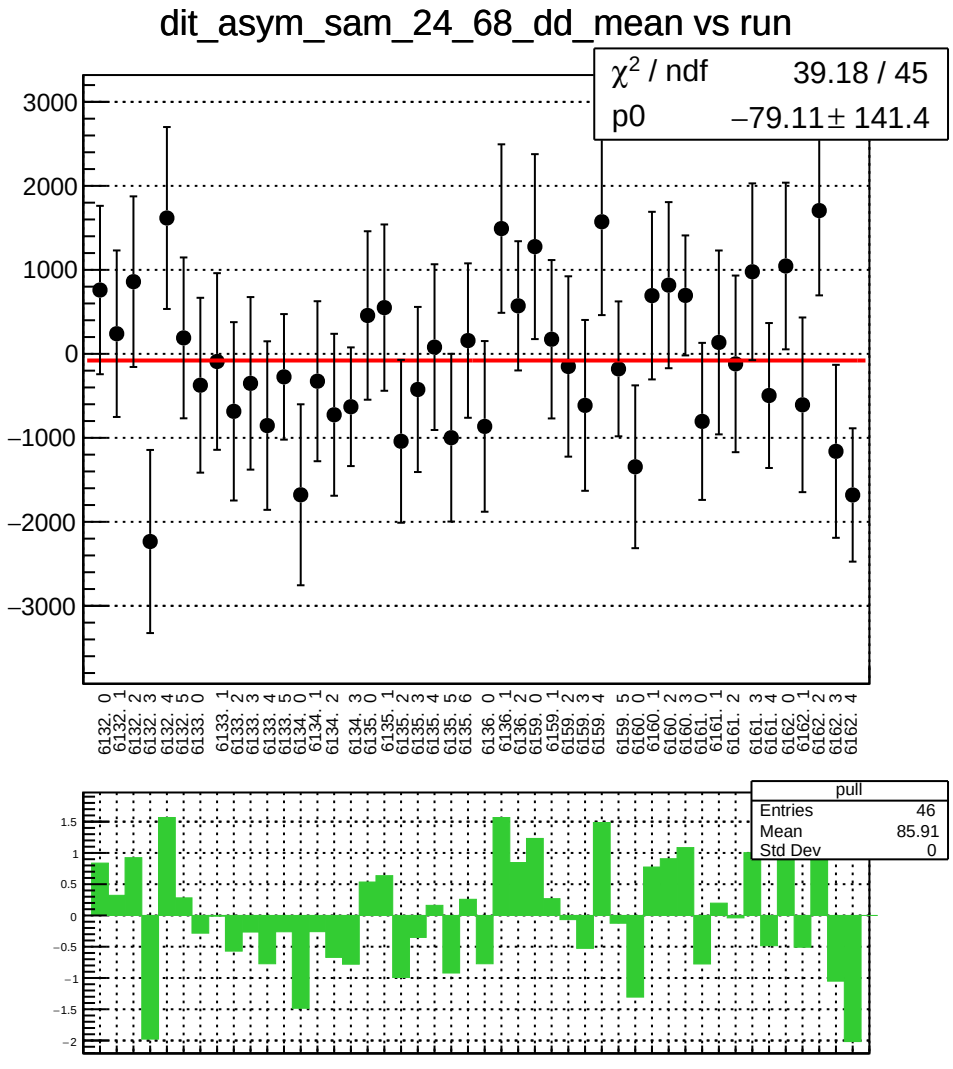
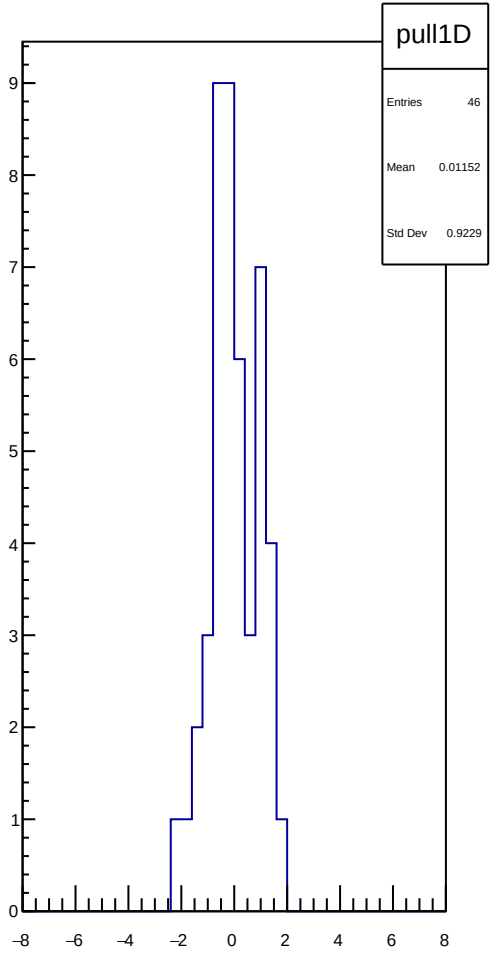
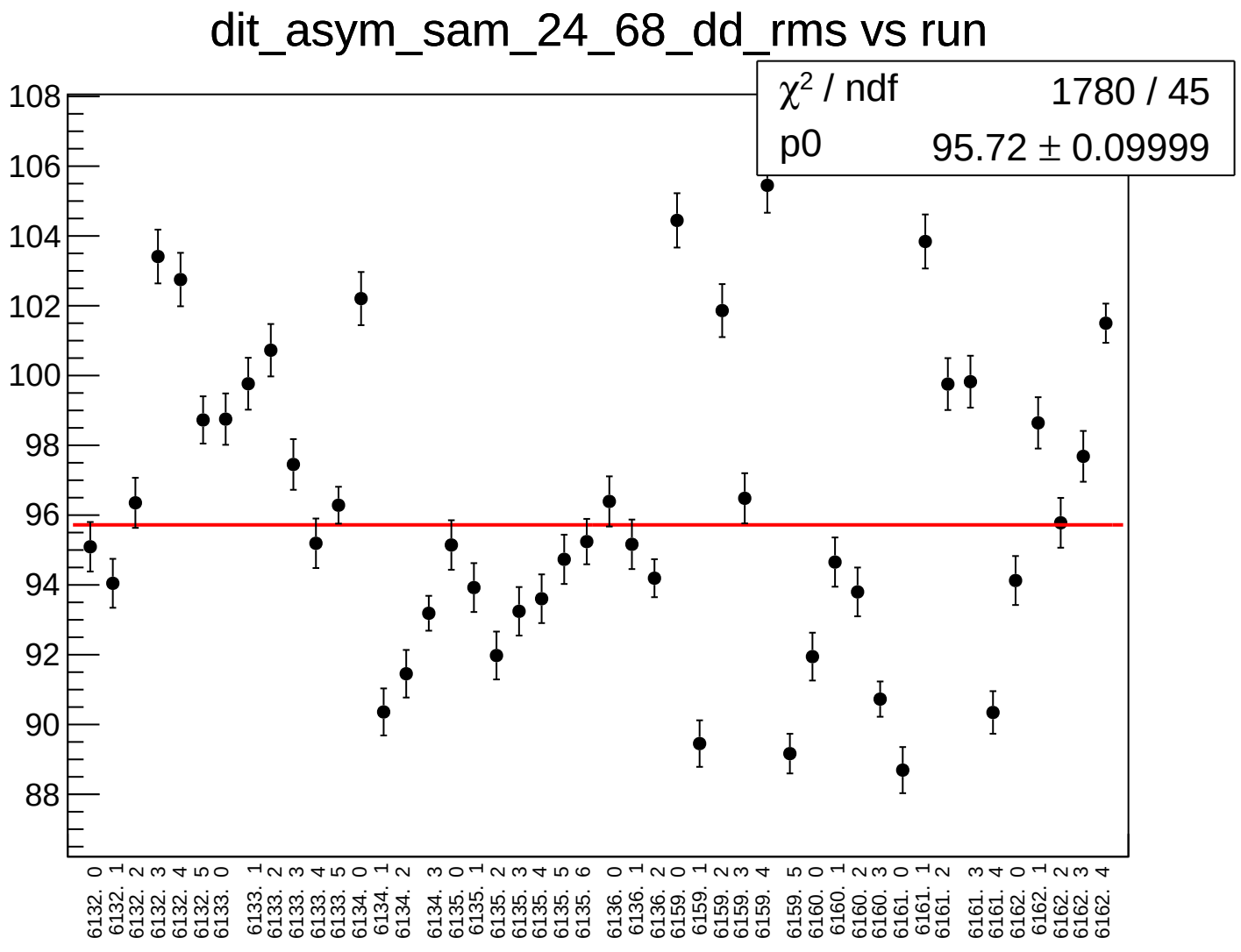
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 39.18 / 45
p0 −79.11 ± 141.4
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 85.91
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.01152
Std Dev 0.9229
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1780 / 45
p0 95.72 ± 0.09999
108
106
104
102
100
98
96
94
92
90
88
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
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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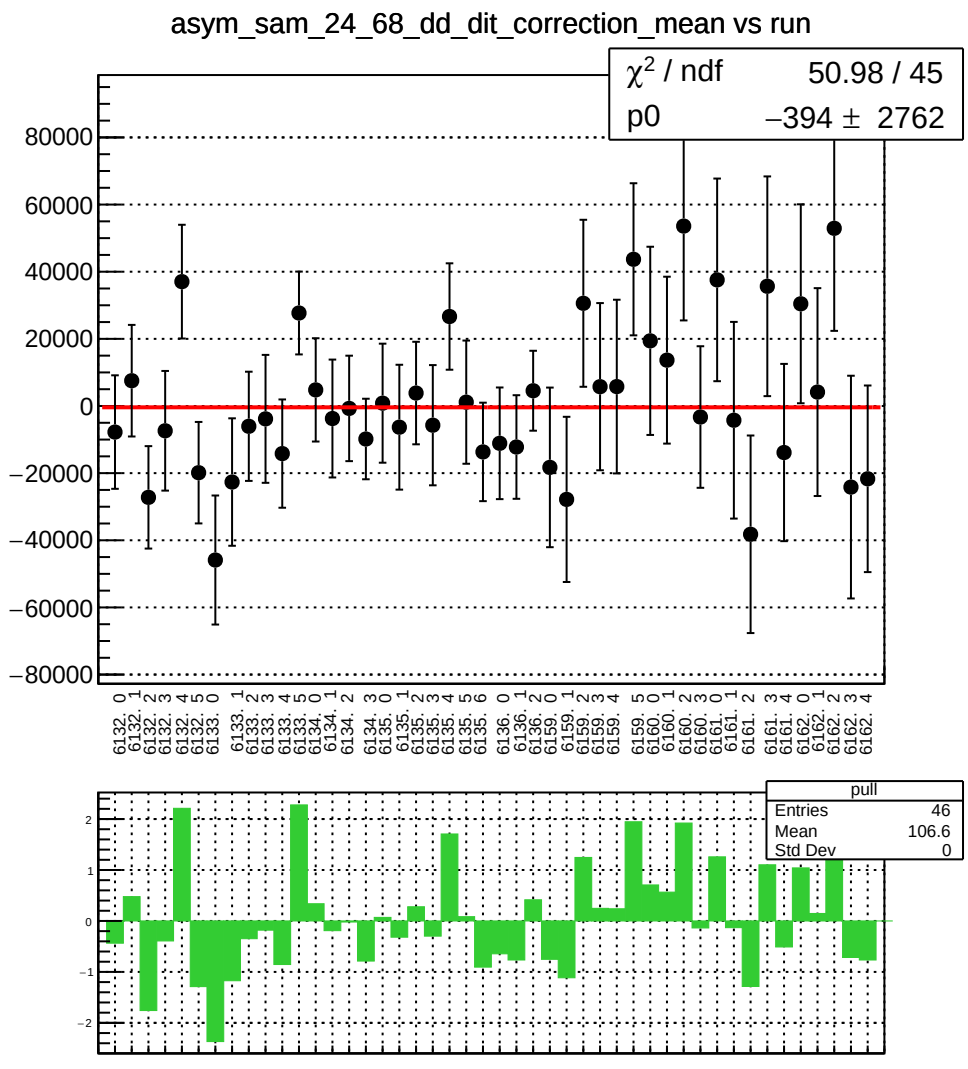
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 50.98 / 45
p0 −394 ± 2762
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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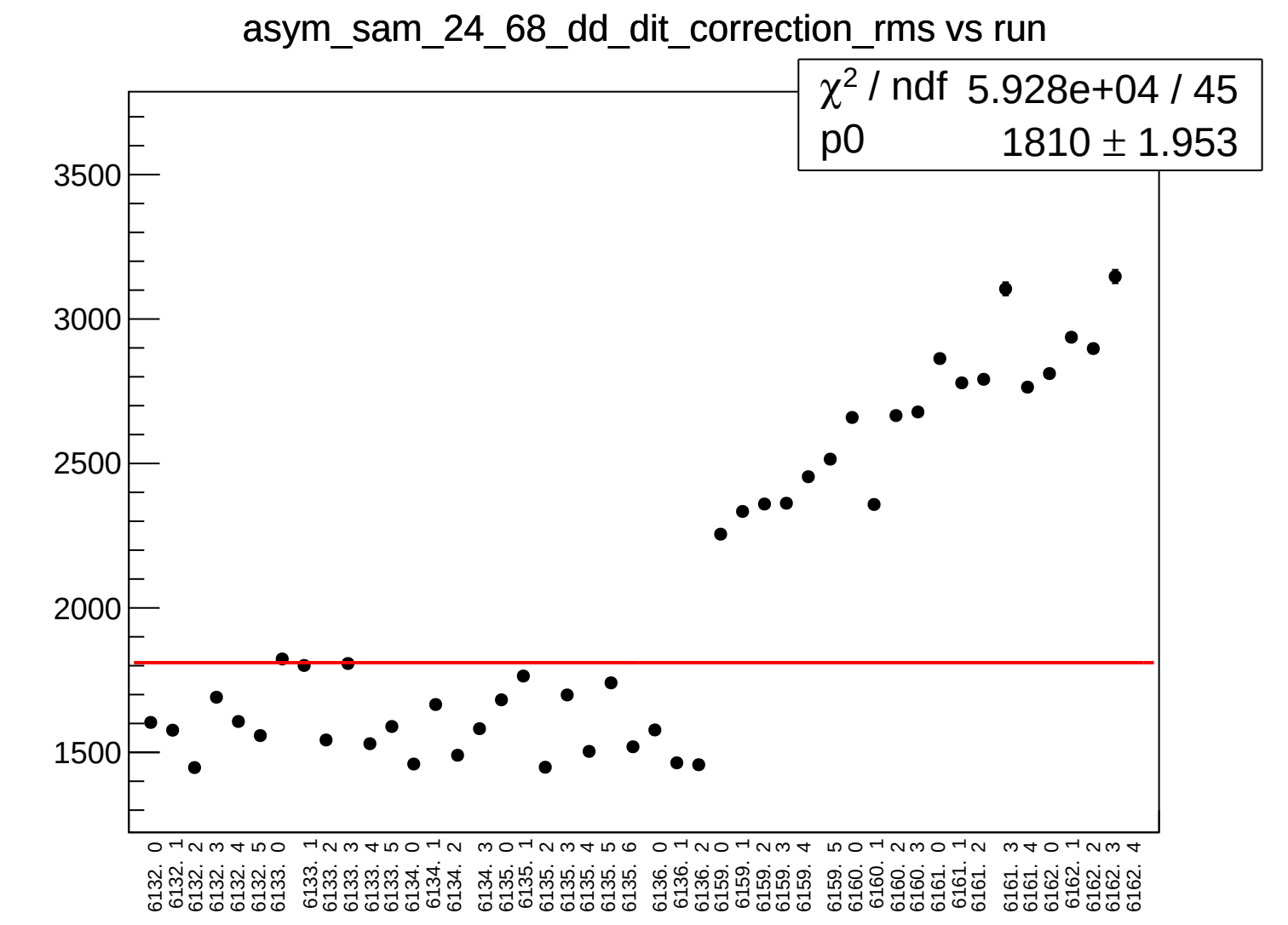
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 106.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.04084
Std Dev 1.052
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 5.928e+04 / 45
p0 1810 ± 1.953
3500
3000
2500
2000
1500
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6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
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6134. 2
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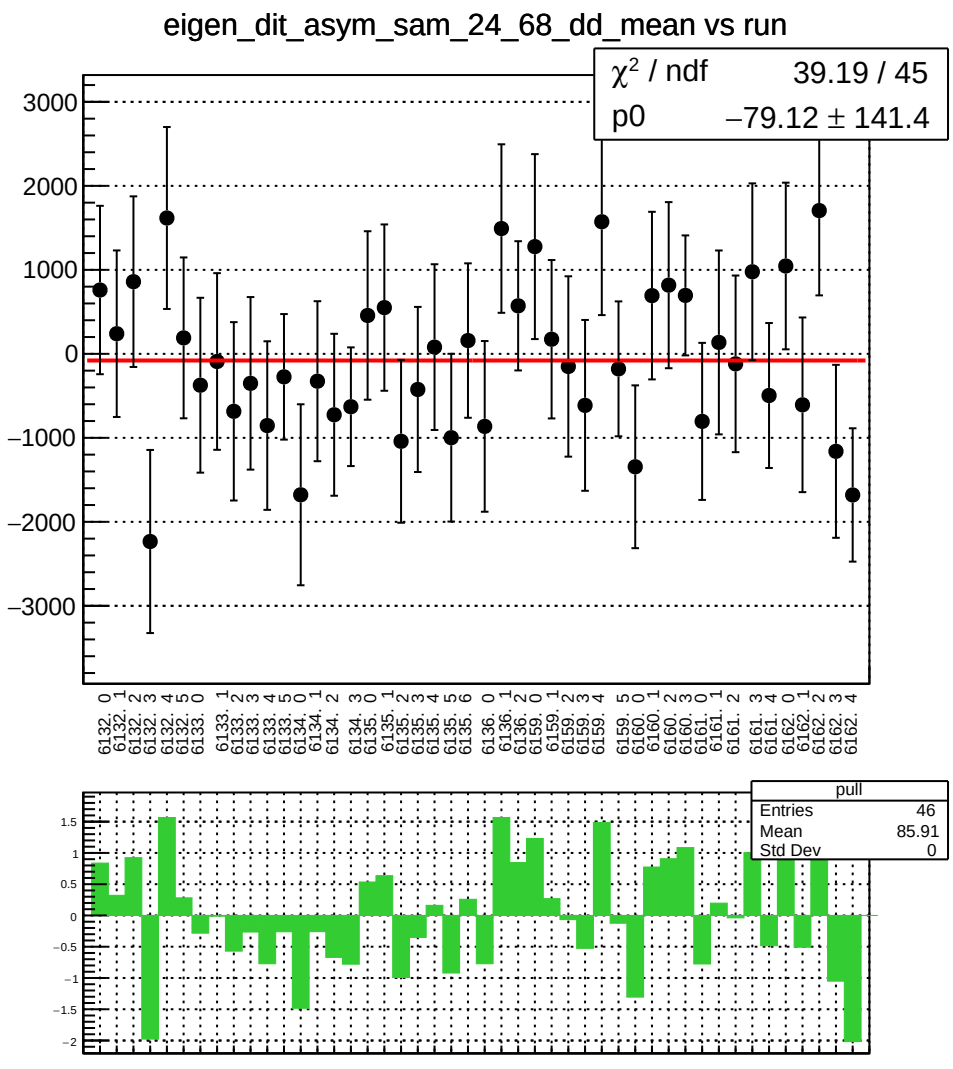
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 39.19 / 45
p0 −79.12 ± 141.4
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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6134. 2
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6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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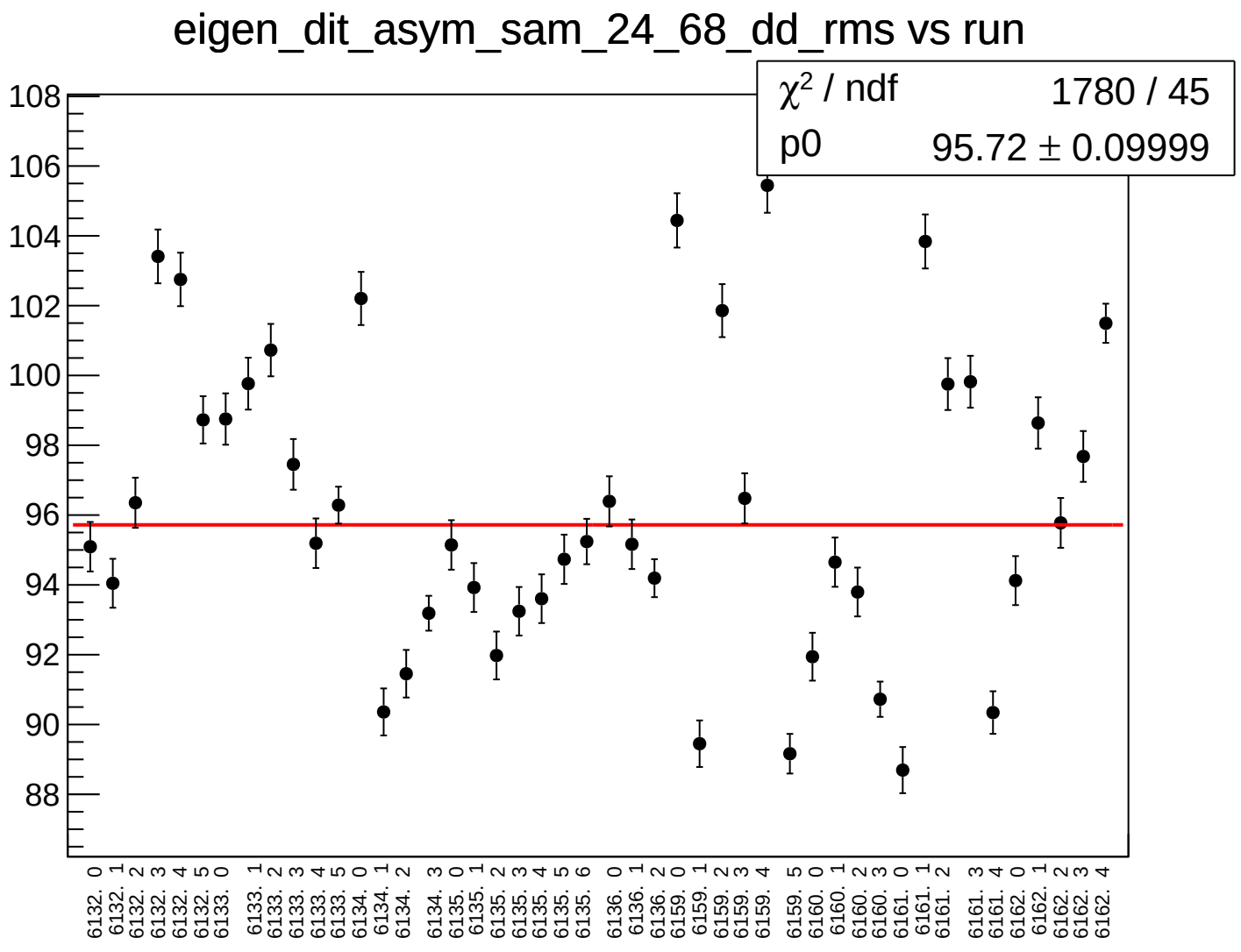
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 85.91
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.01152
Std Dev 0.9229
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1780 / 45
p0 95.72 ± 0.09999
108
106
104
102
100
98
96
94
92
90
88
6132. 0
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6132. 2
6132. 3
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6132. 5
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6133. 5
6134. 0
6134. 1
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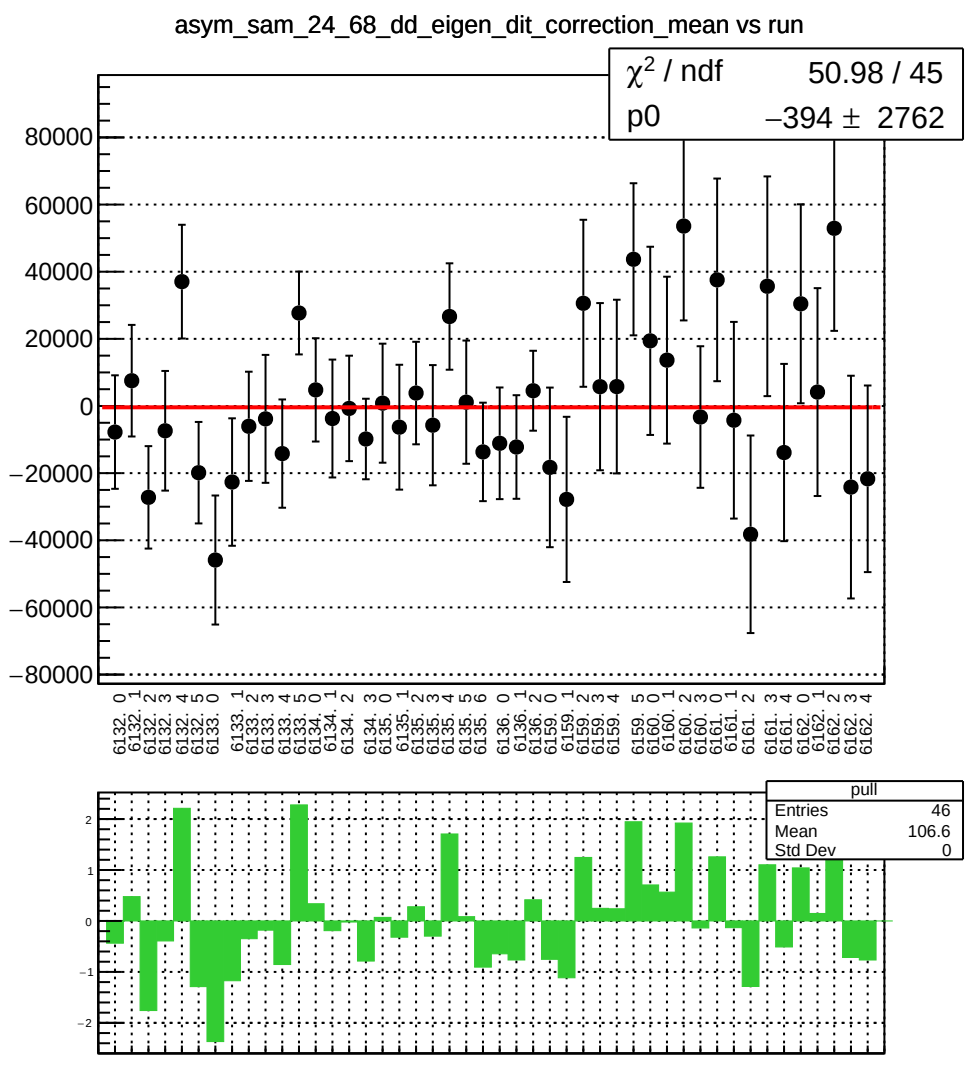
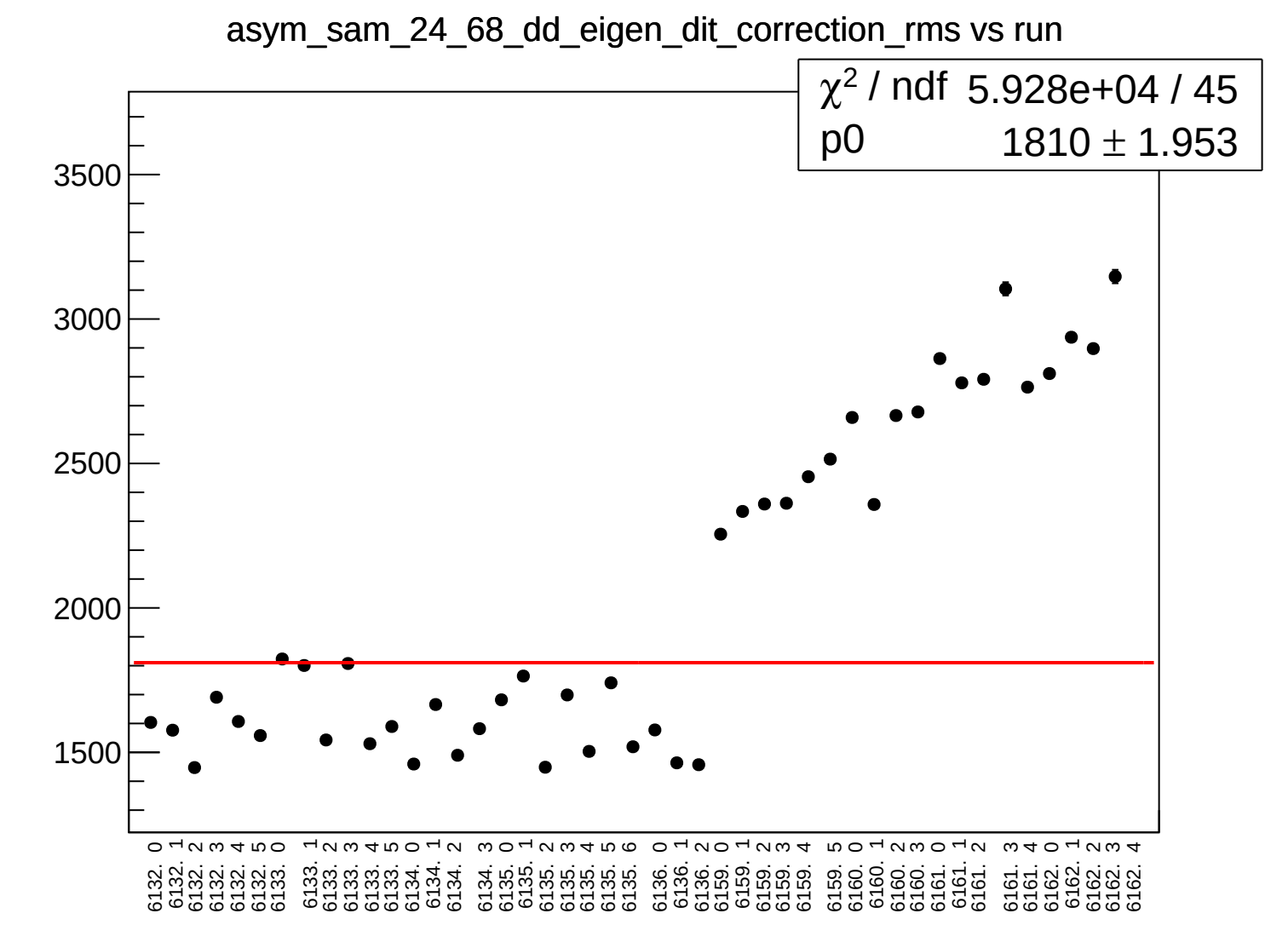
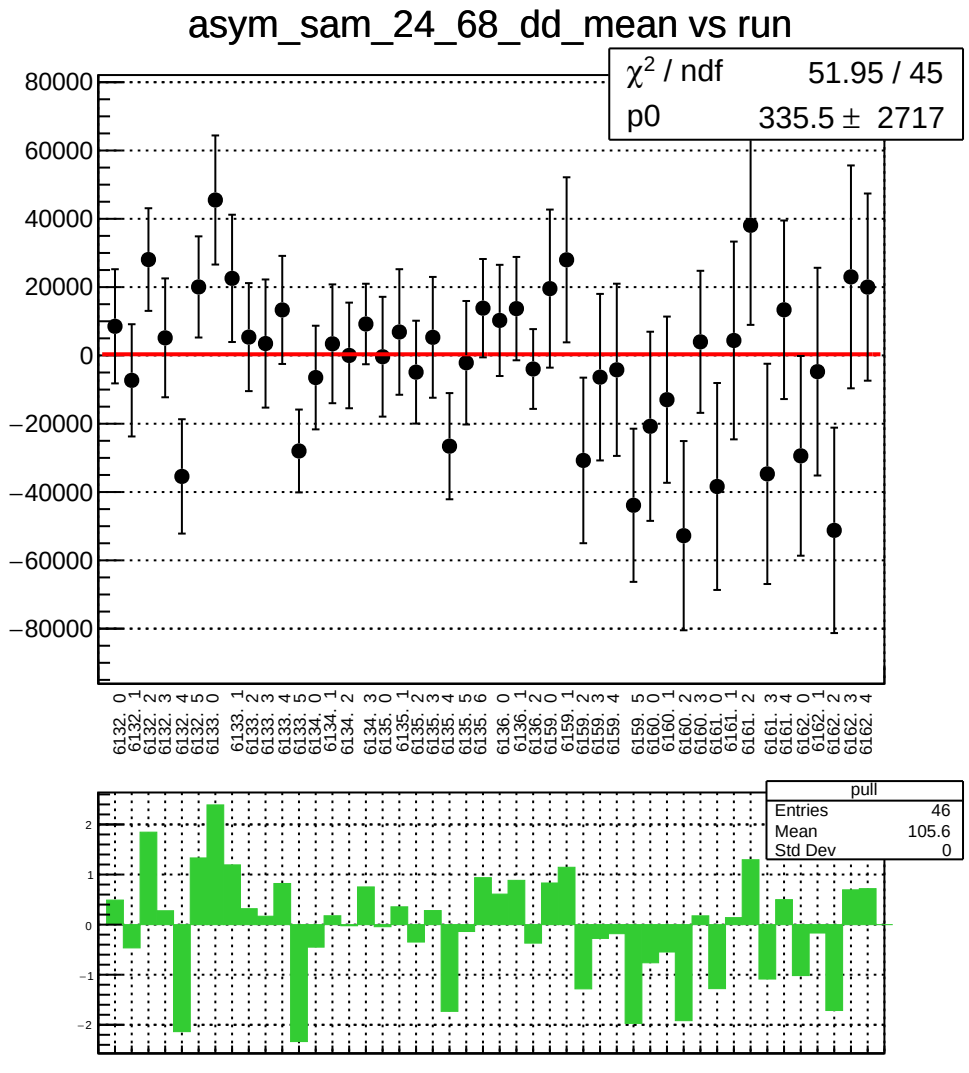
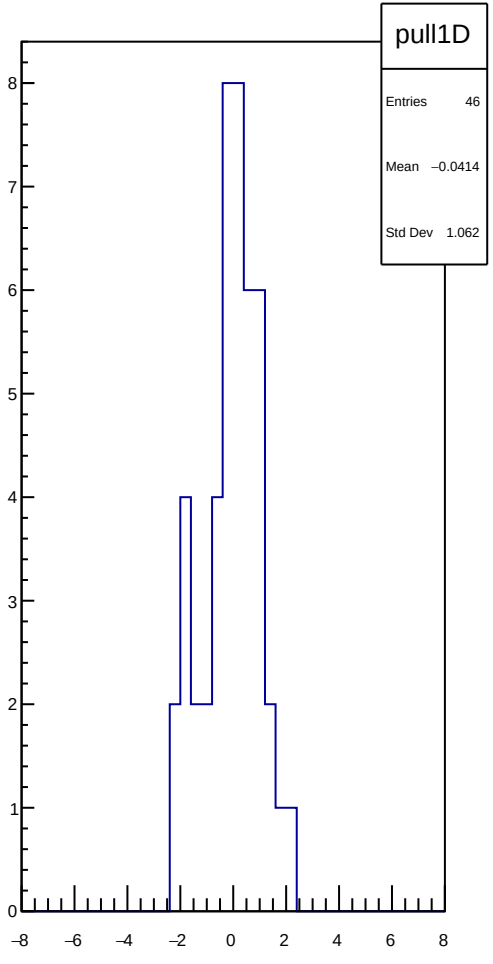
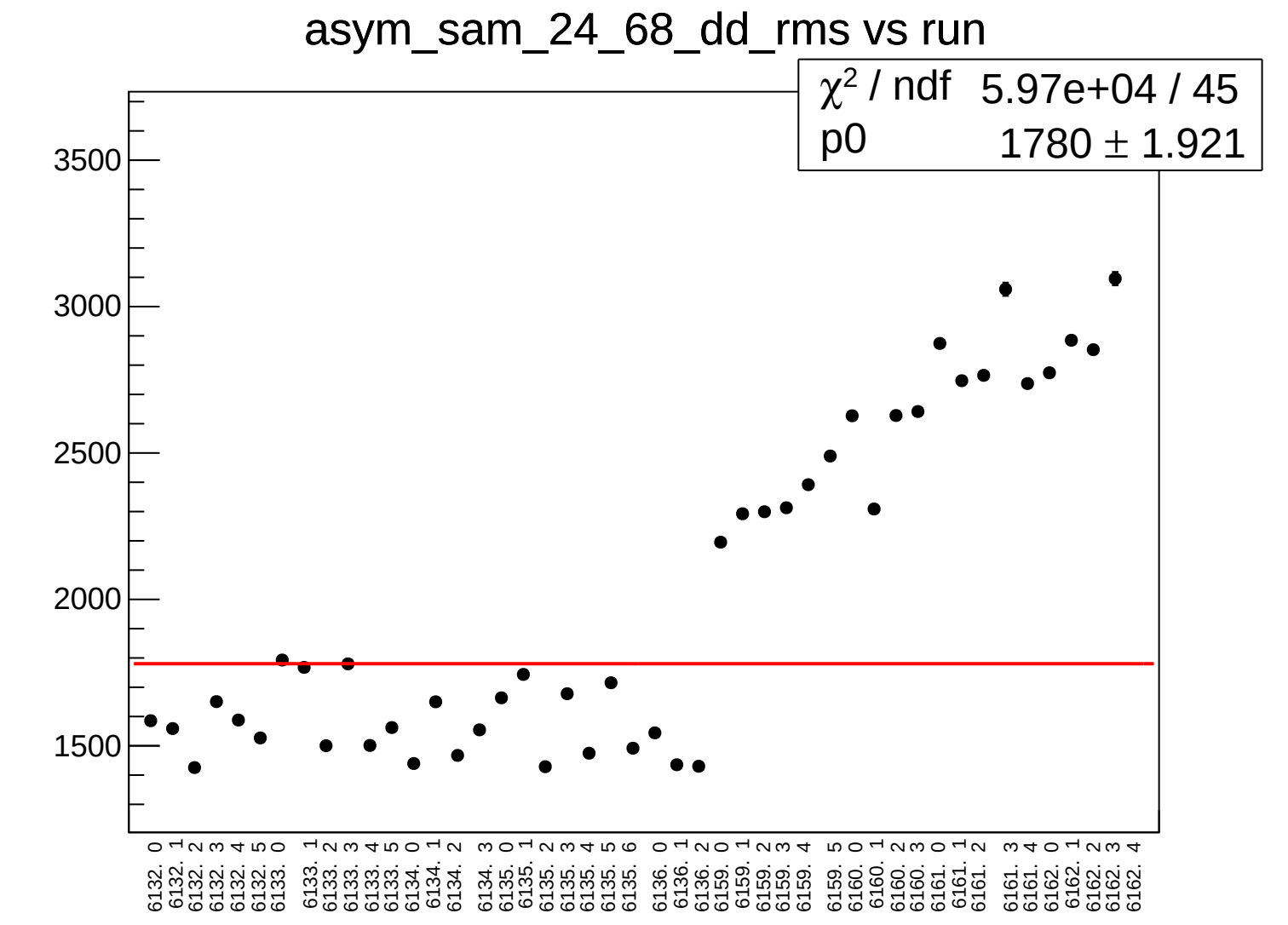
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

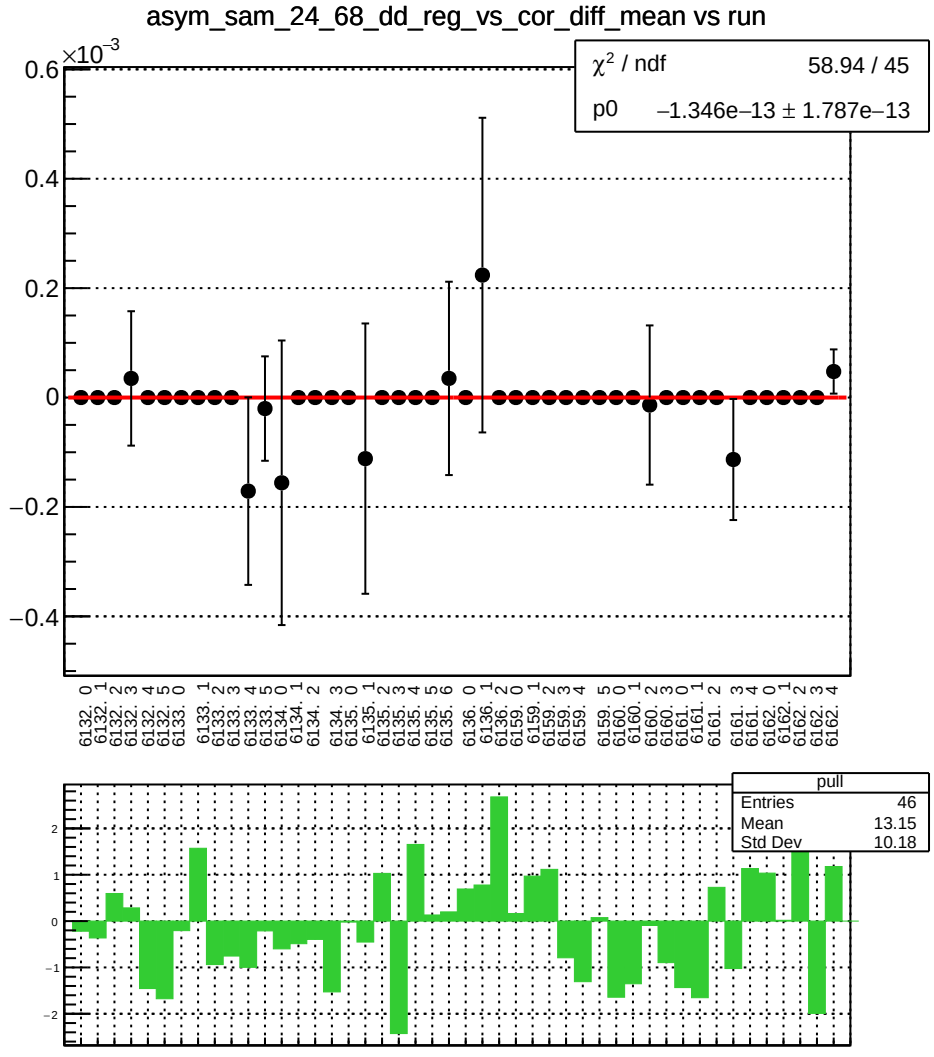

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 50.98 / 45
p0 −394 ± 2762
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 106.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.04084
Std Dev 1.052
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

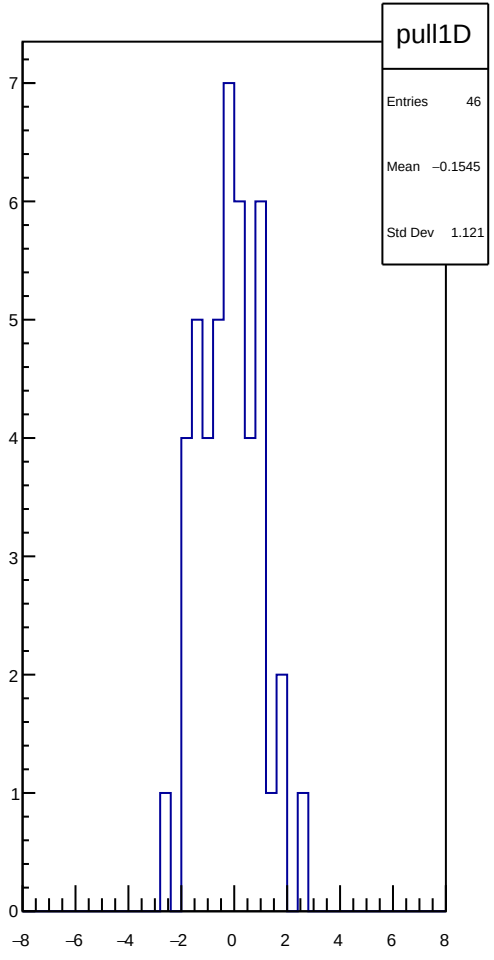

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.928e+04 / 45
p0 1810 ± 1.953
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

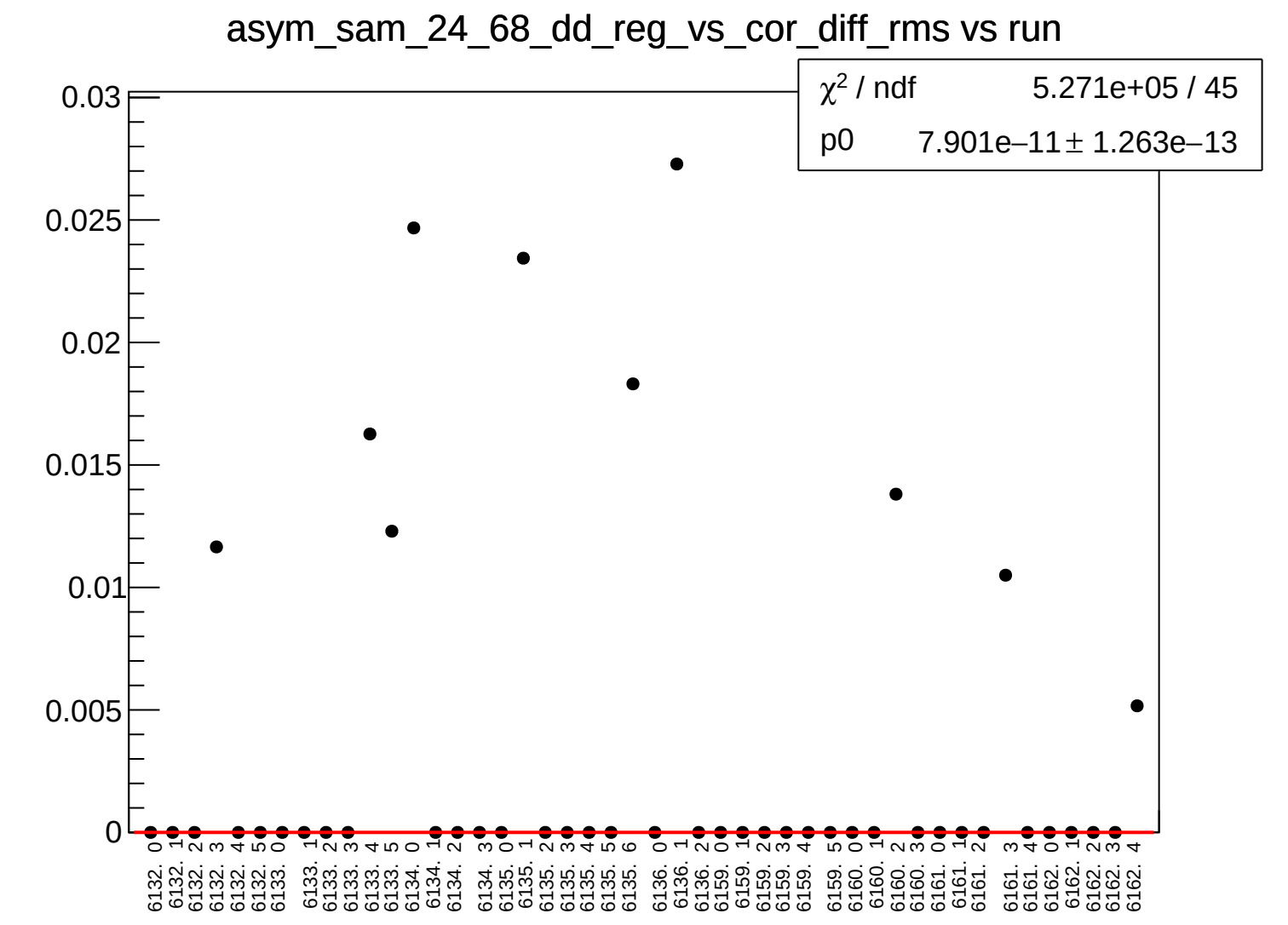

asym_sam_24_68_dd_mean vs run
χ² / ndf 51.95 / 45
p0 335.5 ± 2717
pull
Entries 46
Mean 105.6
Std Dev 0

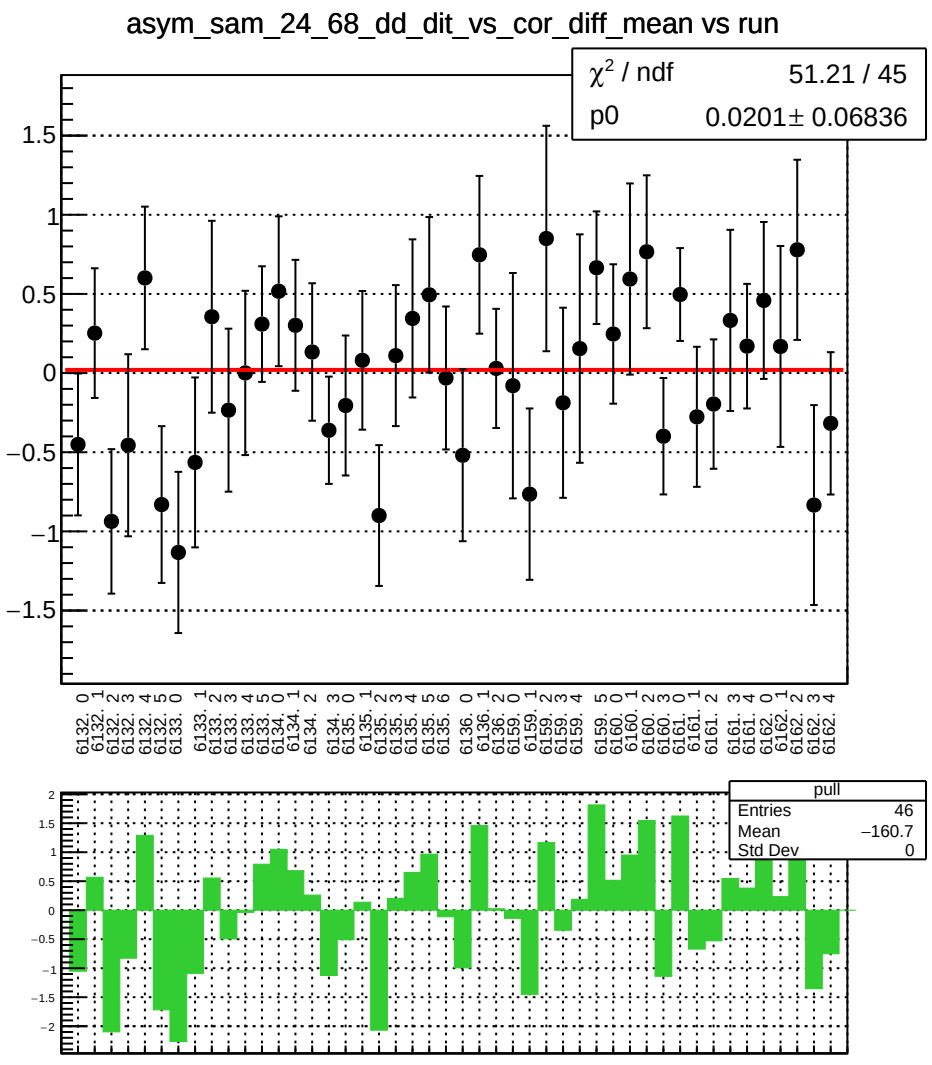

pull1D
Entries 46
Mean −0.0414
Std Dev 1.062

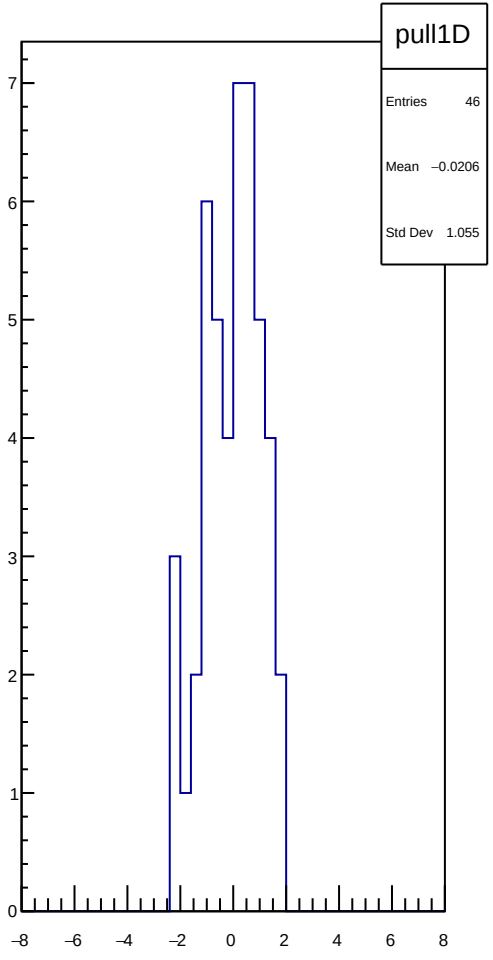

asym_sam_24_68_dd_rms vs run
χ² / ndf 5.97e+04 / 45
p0 1780 ± 1.921
3500
3000
2500
2000
1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

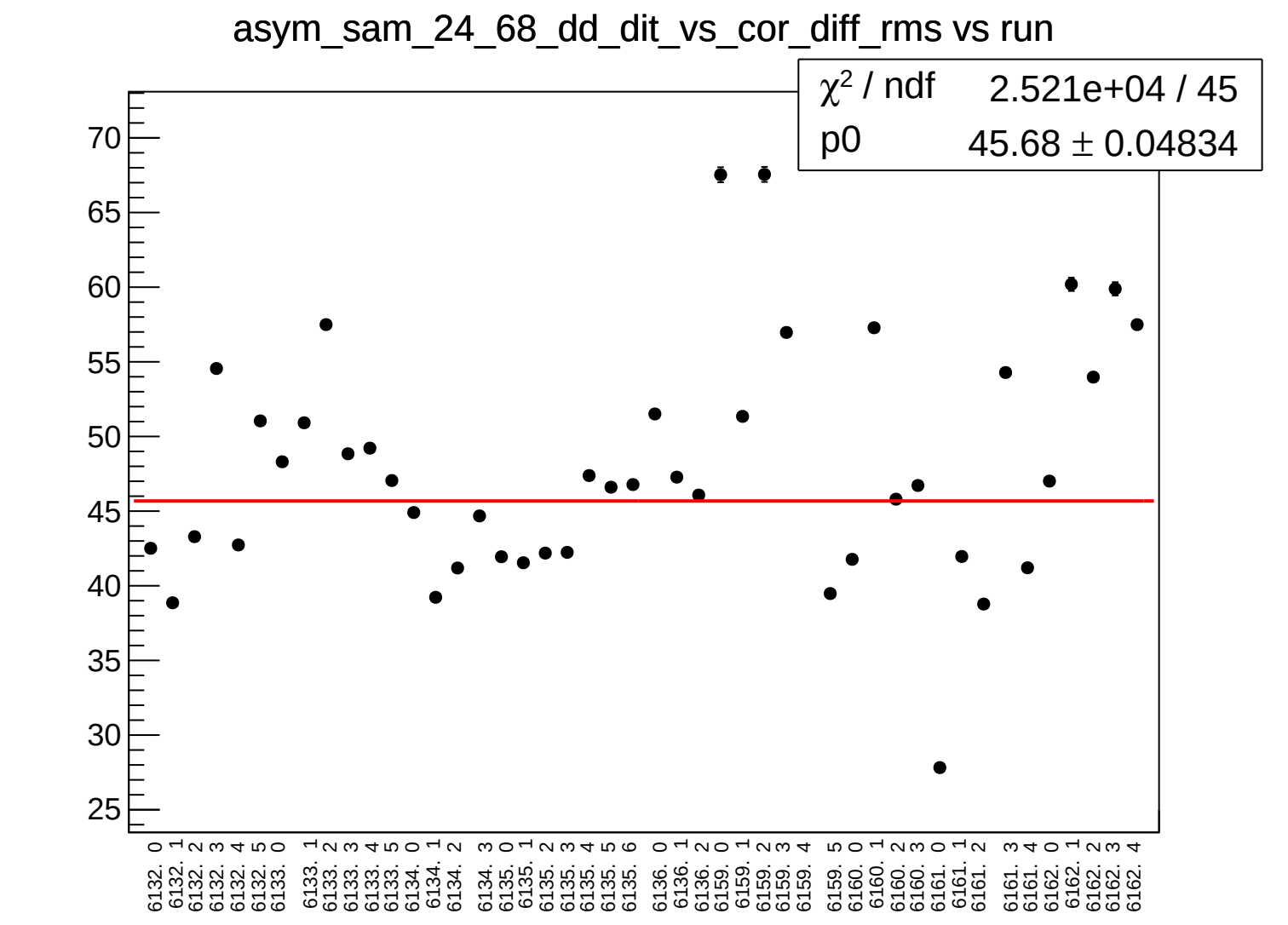

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 58.94 / 45
p0 −1.346e−13 ± 1.787e−13
pull
Entries 46
Mean 13.15
Std Dev 10.18

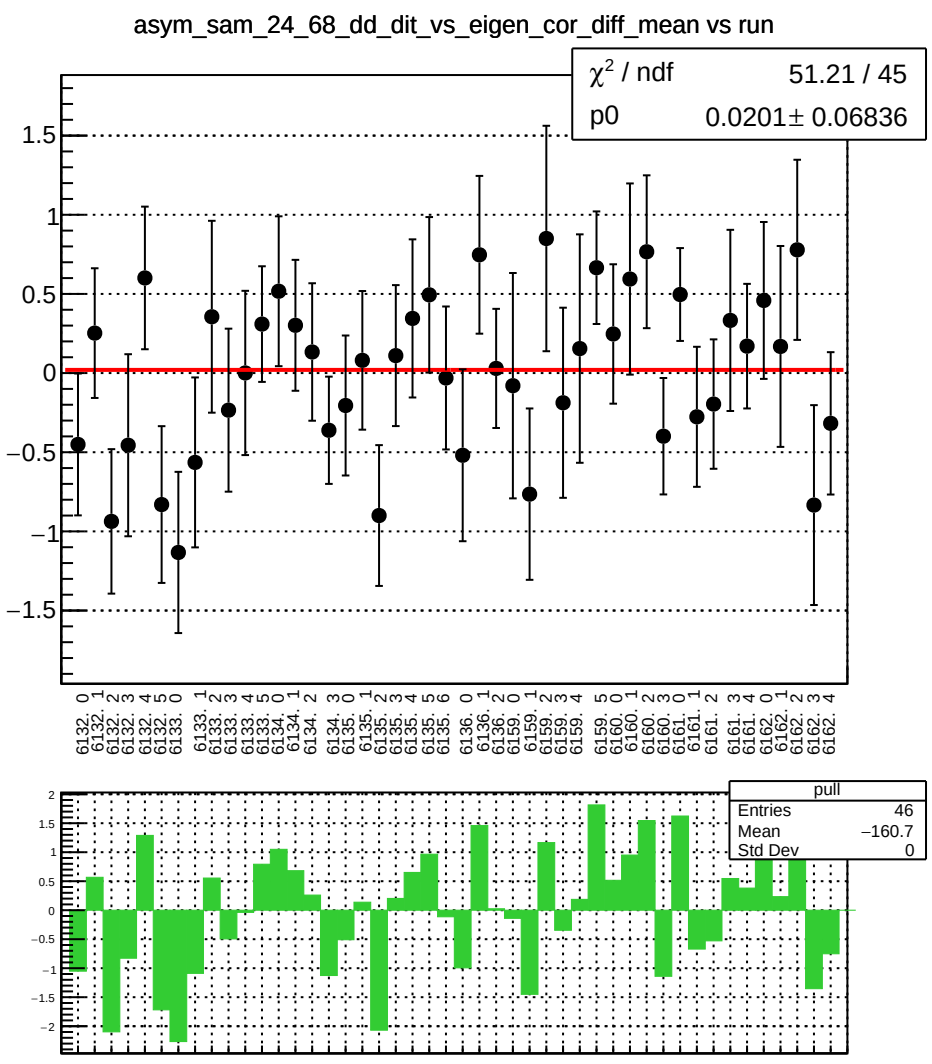

pull1D
Entries 46
Mean −0.1545
Std Dev 1.121

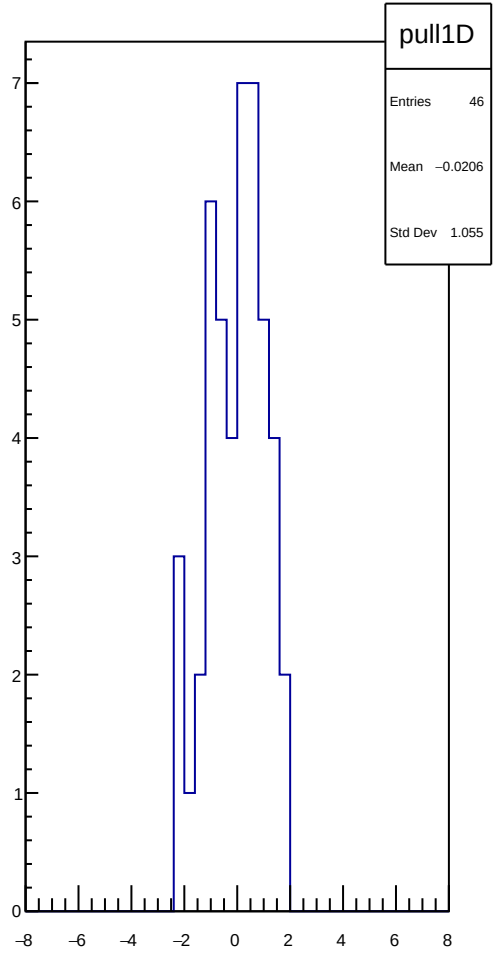

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.271e+05 / 45
p0 7.901e−11 ± 1.263e−13
0.03
0.025
0.02
0.015
0.01
0.005
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

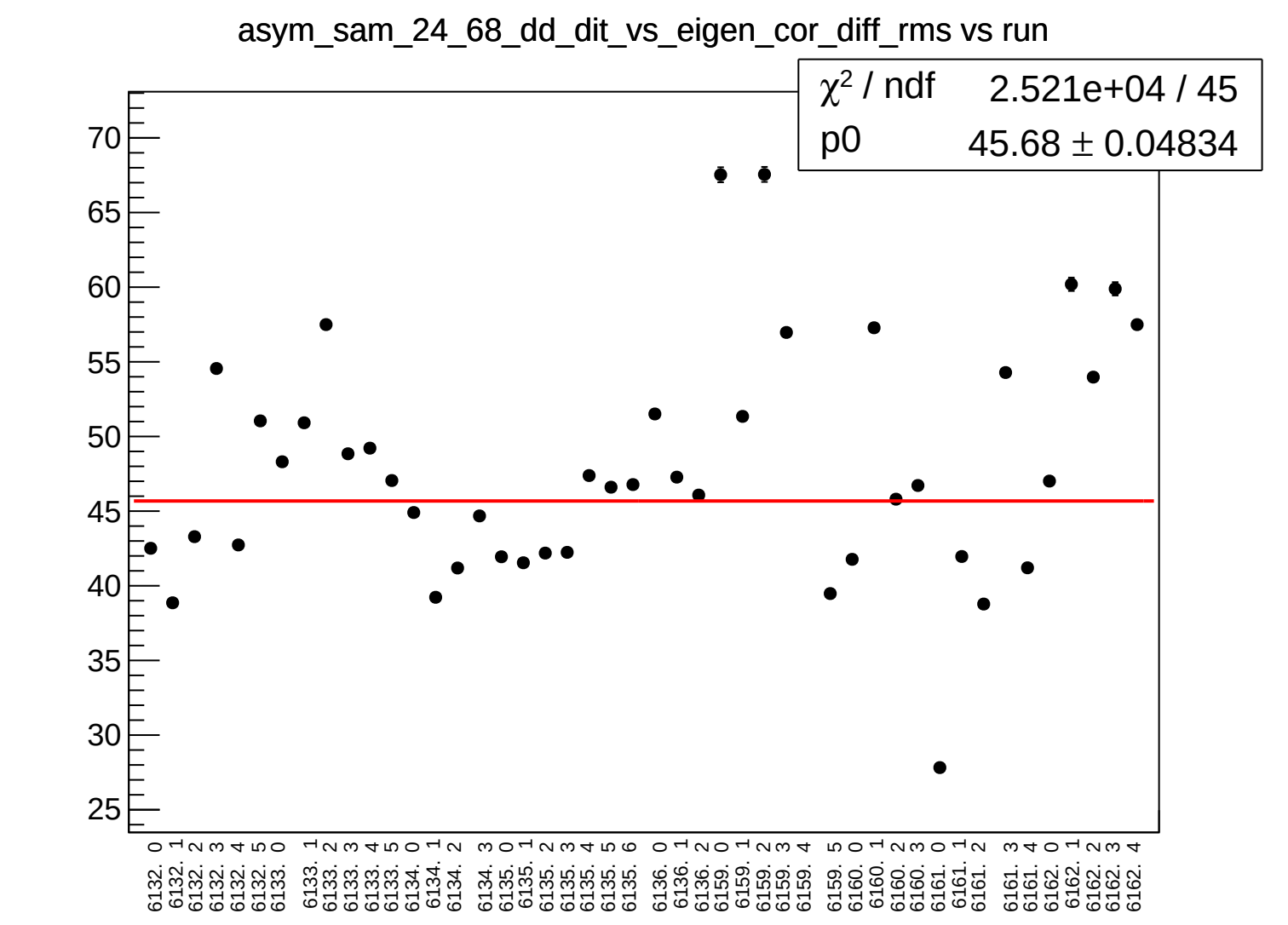

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 51.21 / 45
p0 0.0201± 0.06836
pull
Entries 46
Mean −160.7
Std Dev 0

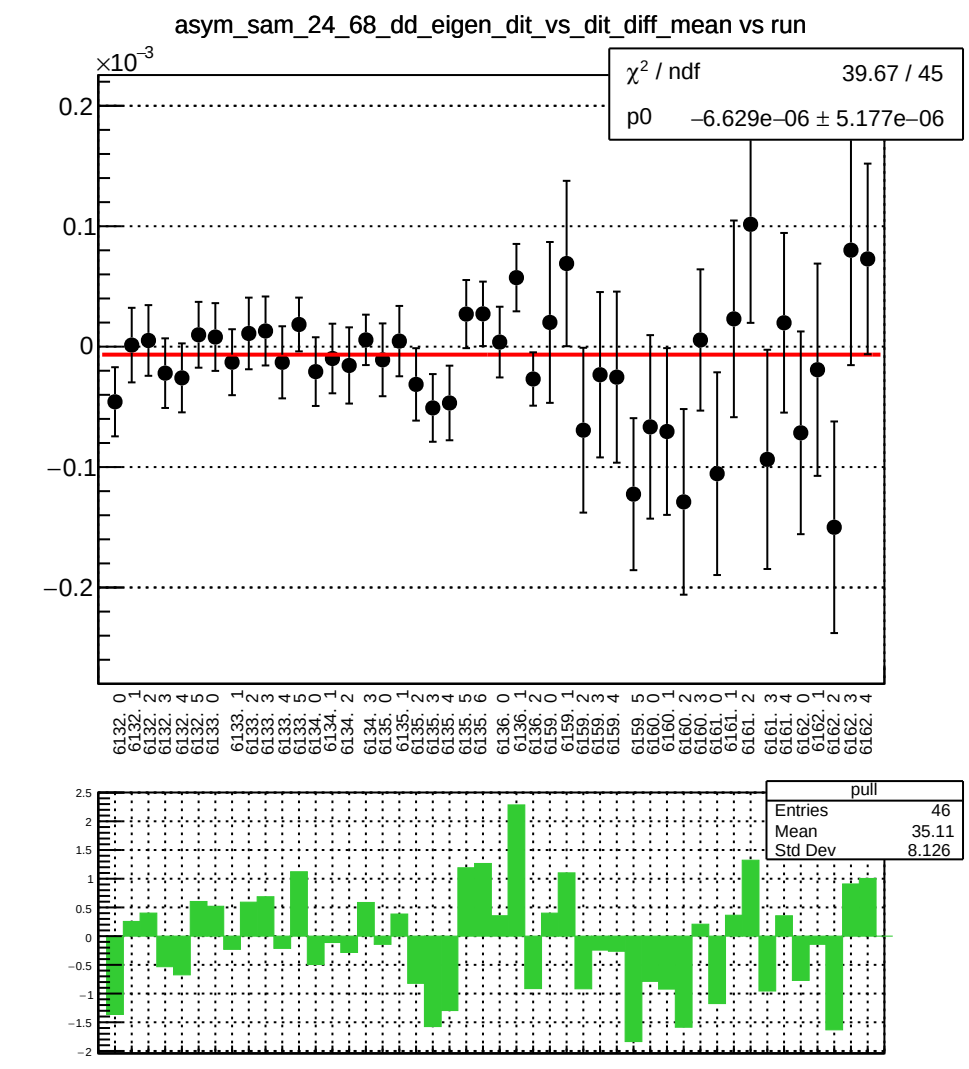

pull1D
Entries 46
Mean −0.0206
Std Dev 1.055

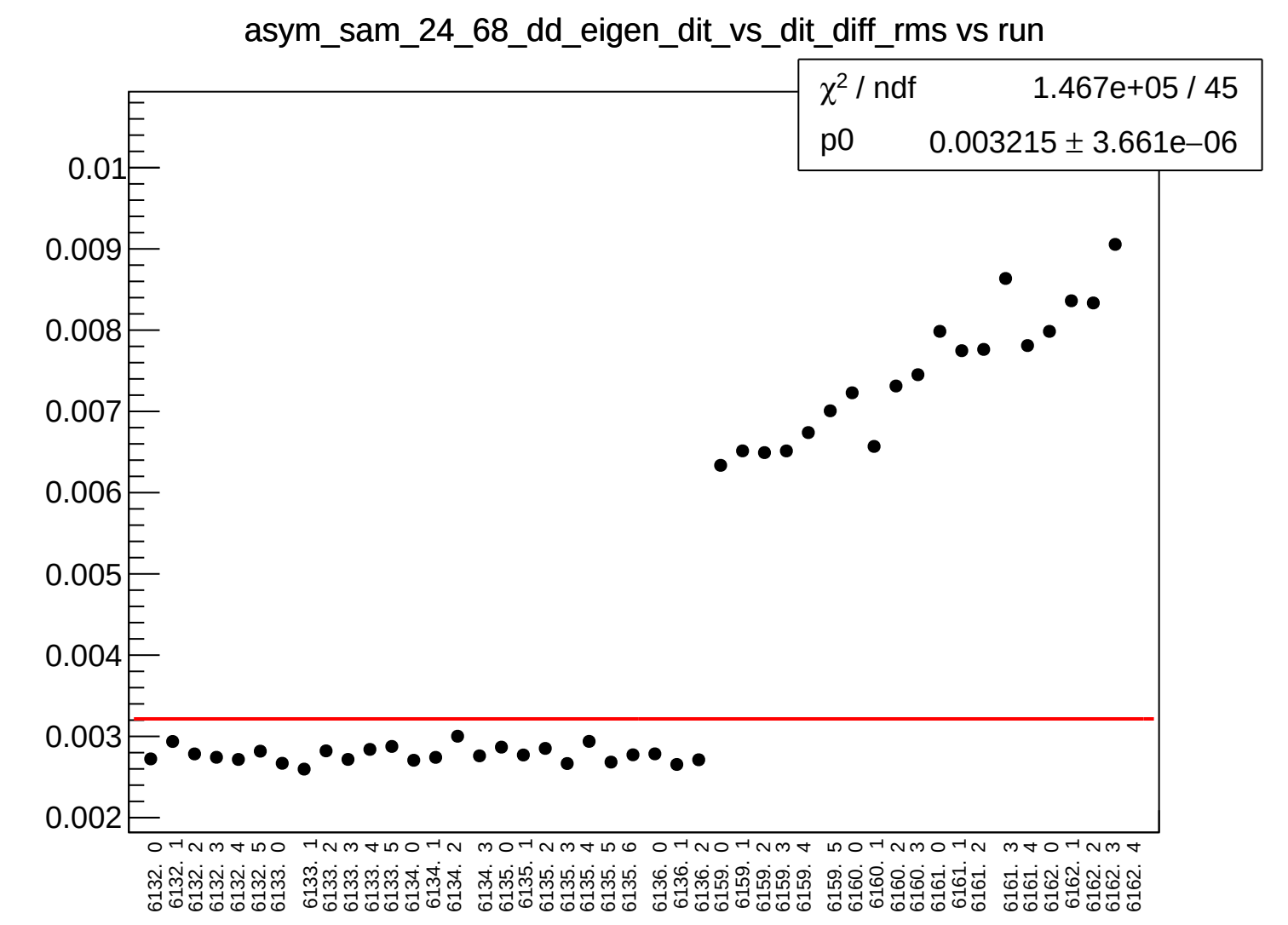

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.521e+04 / 45
p0 45.68 ± 0.04834
70
65
60
55
50
45
40
35
30
25
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

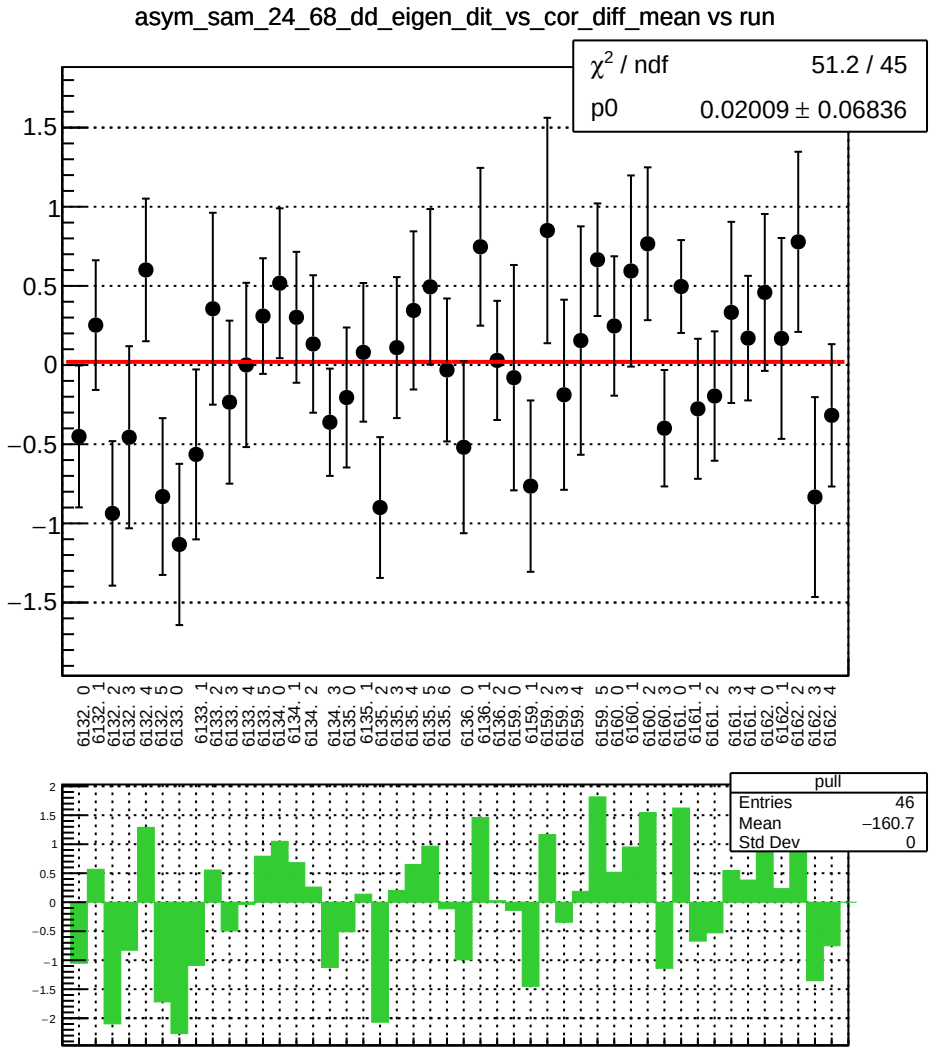

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.21 / 45
p0 0.0201± 0.06836
pull
Entries 46
Mean −160.7
Std Dev 0

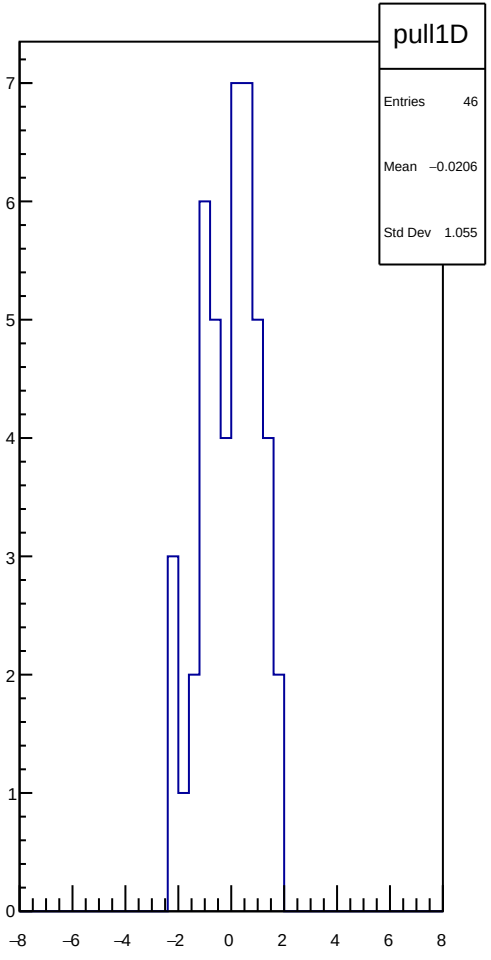

pull1D
Entries 46
Mean −0.0206
Std Dev 1.055

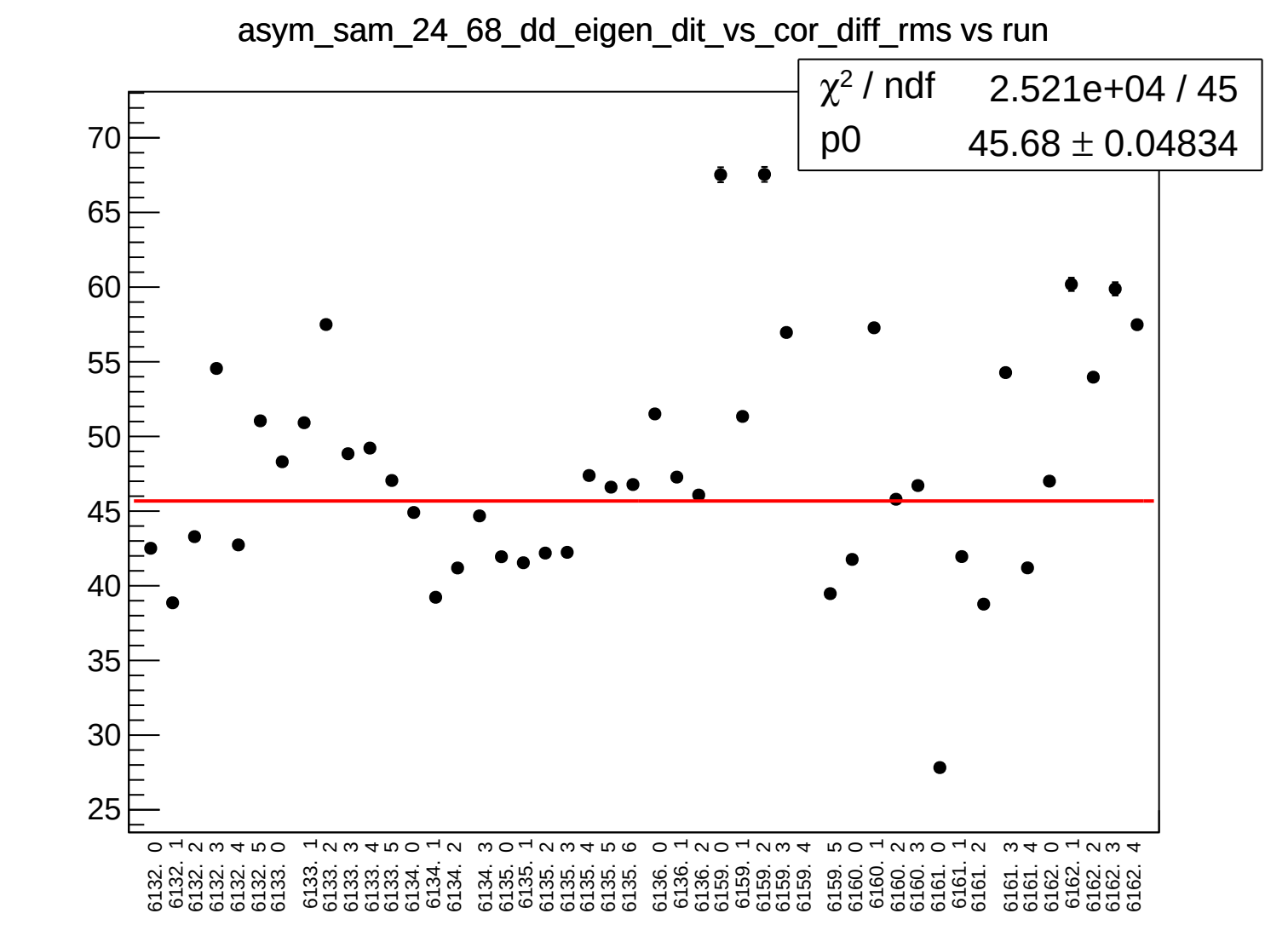

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.521e+04 / 45
p0 45.68 ± 0.04834
70
65
60
55
50
45
40
35
30
25
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 39.67 / 45
p0 −6.629e−06 ± 5.177e−06
0.2
0.1
0
−0.1
−0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 35.11
Std Dev 8.126
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.08629
Std Dev 0.9246
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.467e+05 / 45
p0 0.003215 ± 3.661e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 51.2 / 45
p0 0.02009 ± 0.06836
pull
Entries 46
Mean −160.7
Std Dev 0


pull1D
Entries 46
Mean −0.0206
Std Dev 1.055


asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.521e+04 / 45
p0 45.68 ± 0.04834
70
65
60
55
50
45
40
35
30
25
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
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6135. 5
6135. 6
6136. 0
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6136. 2
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6159. 1
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6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
6161. 3
6161. 4
6162. 0
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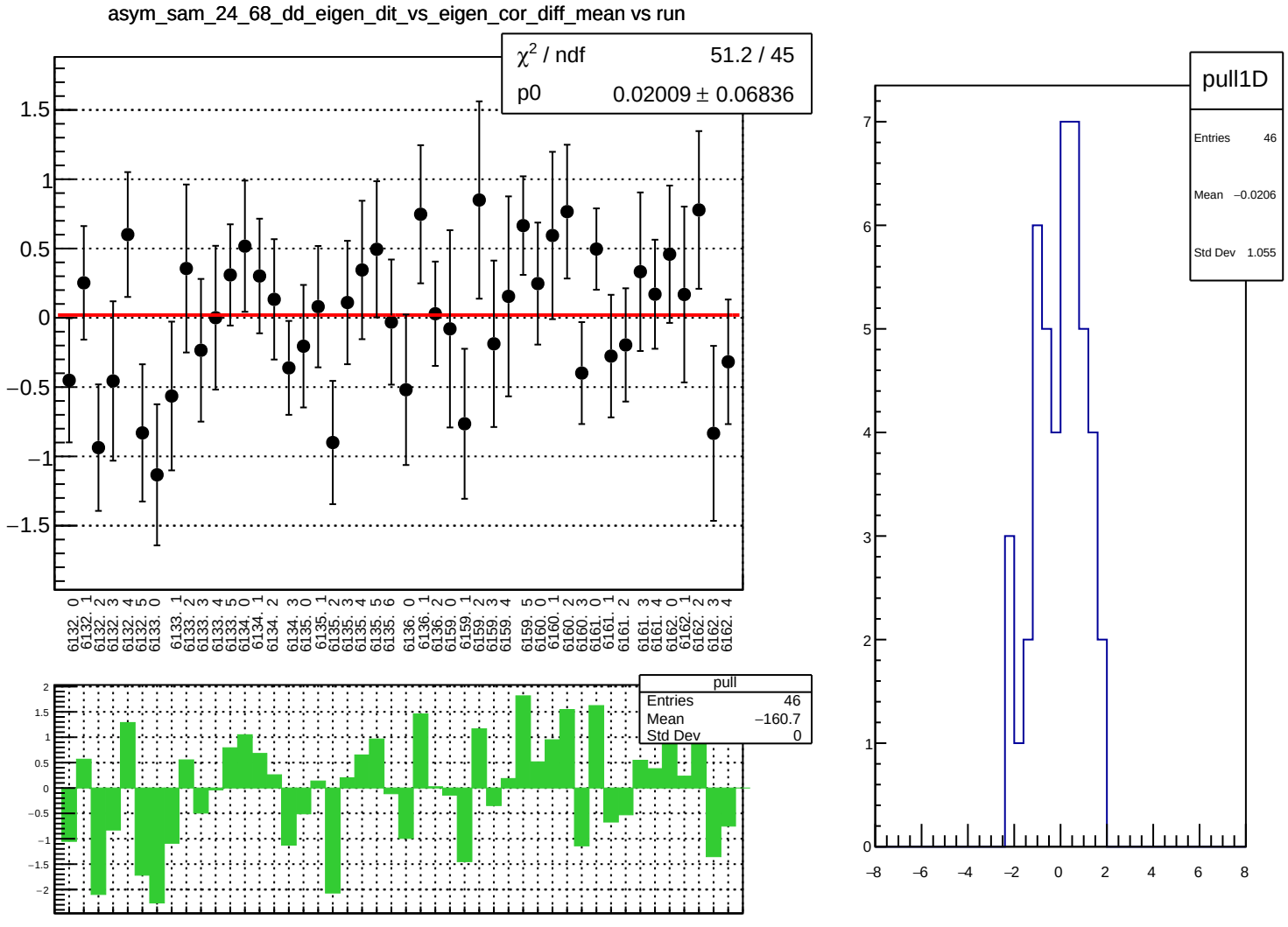
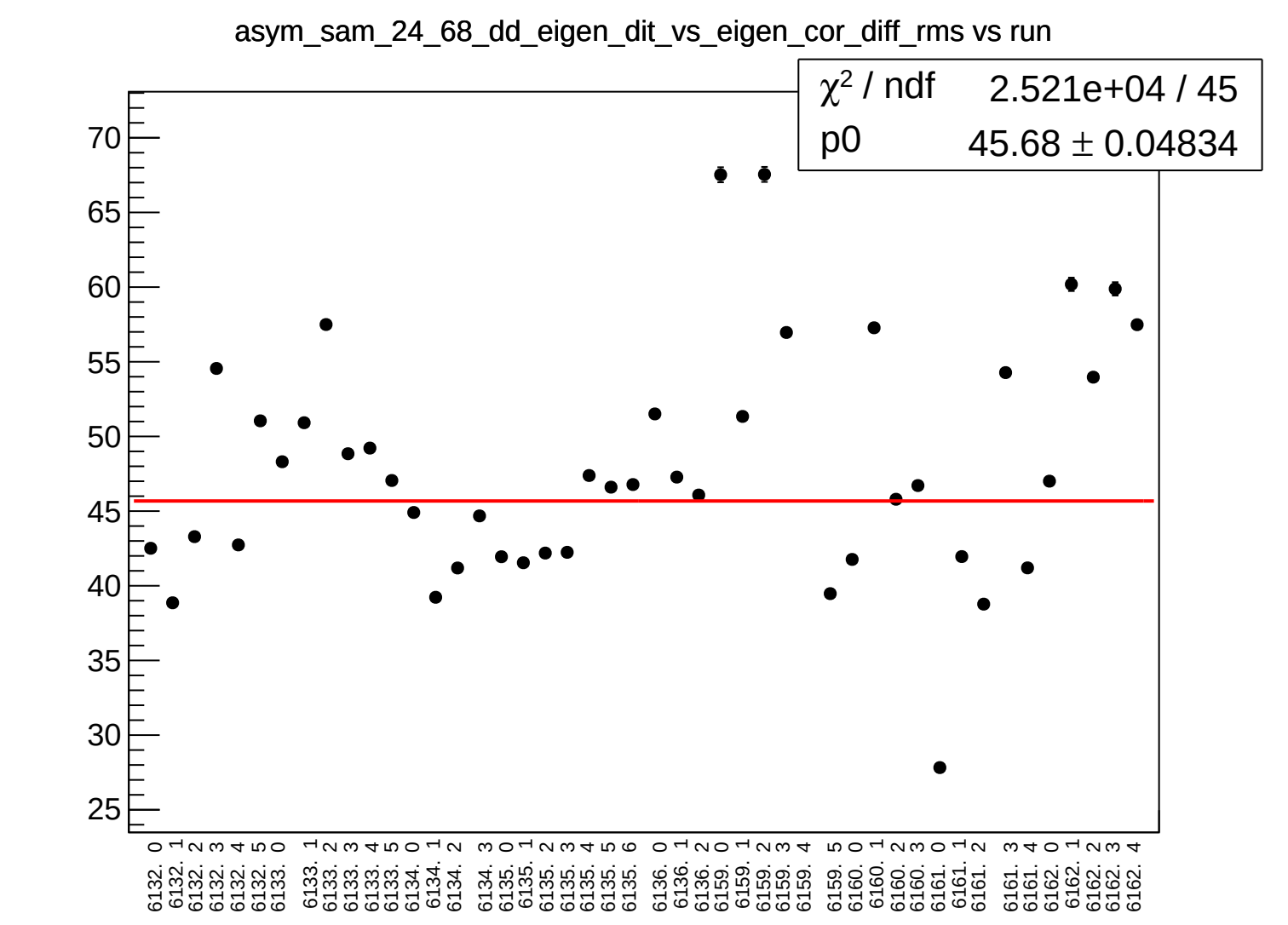
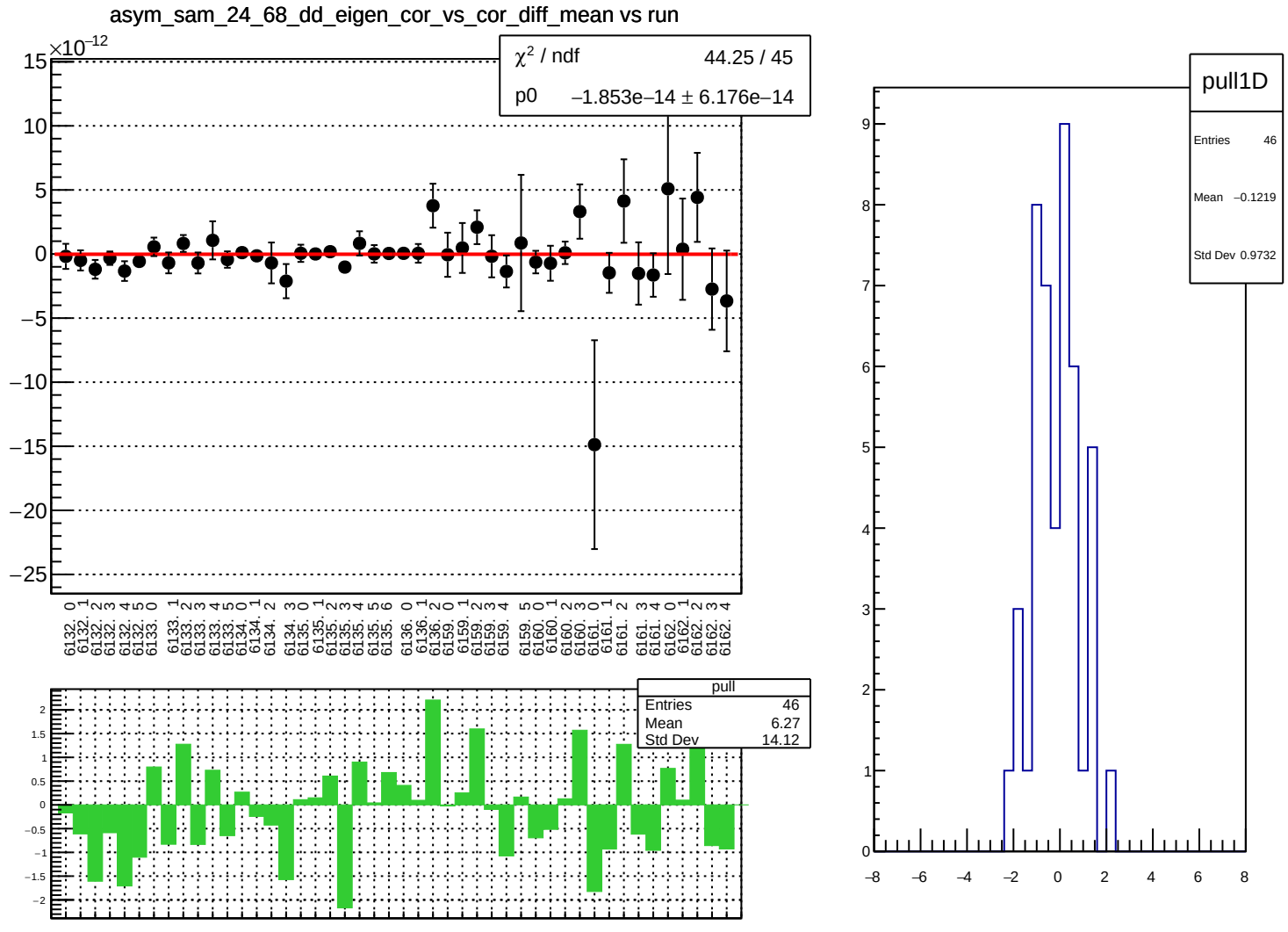
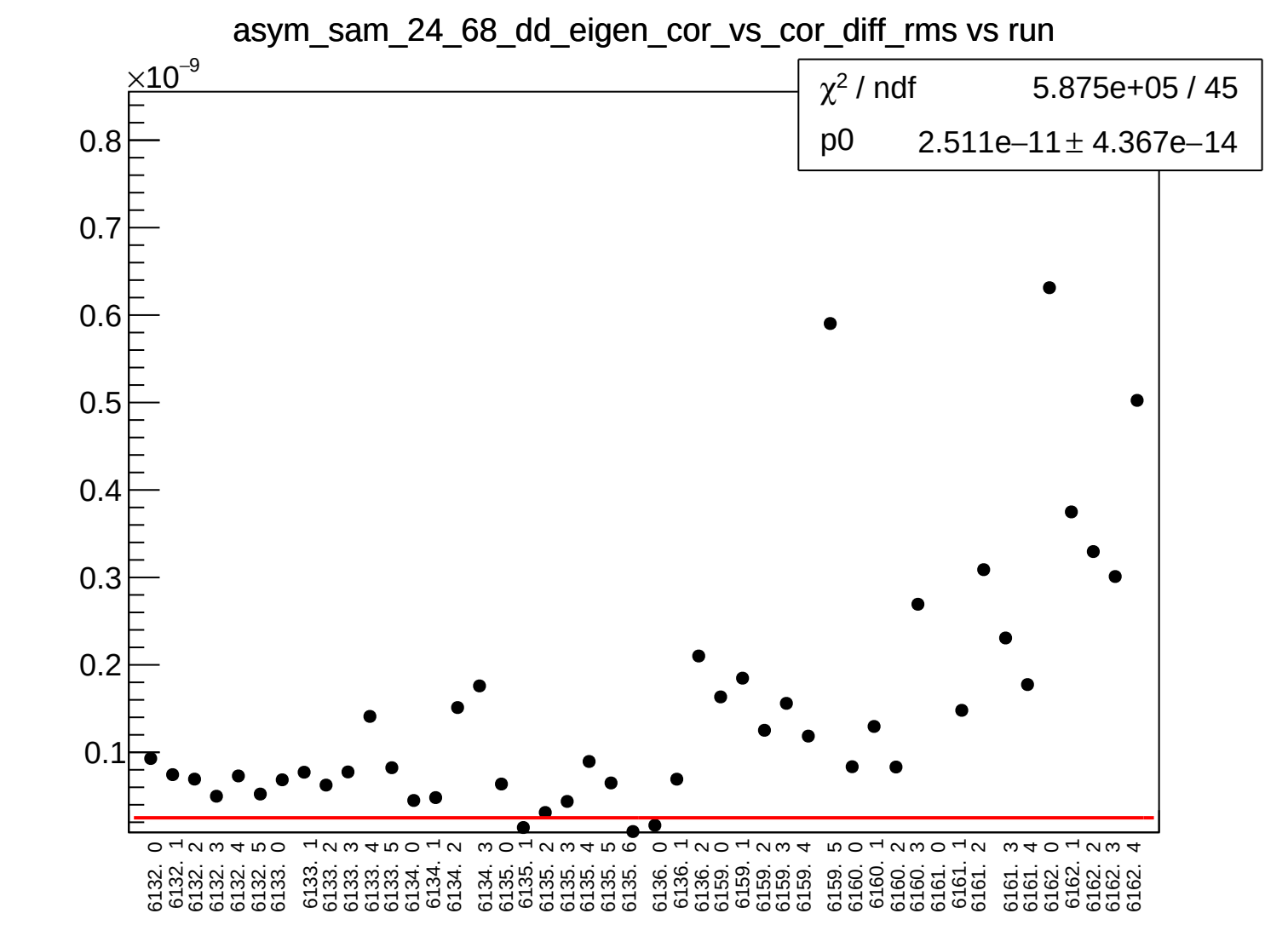
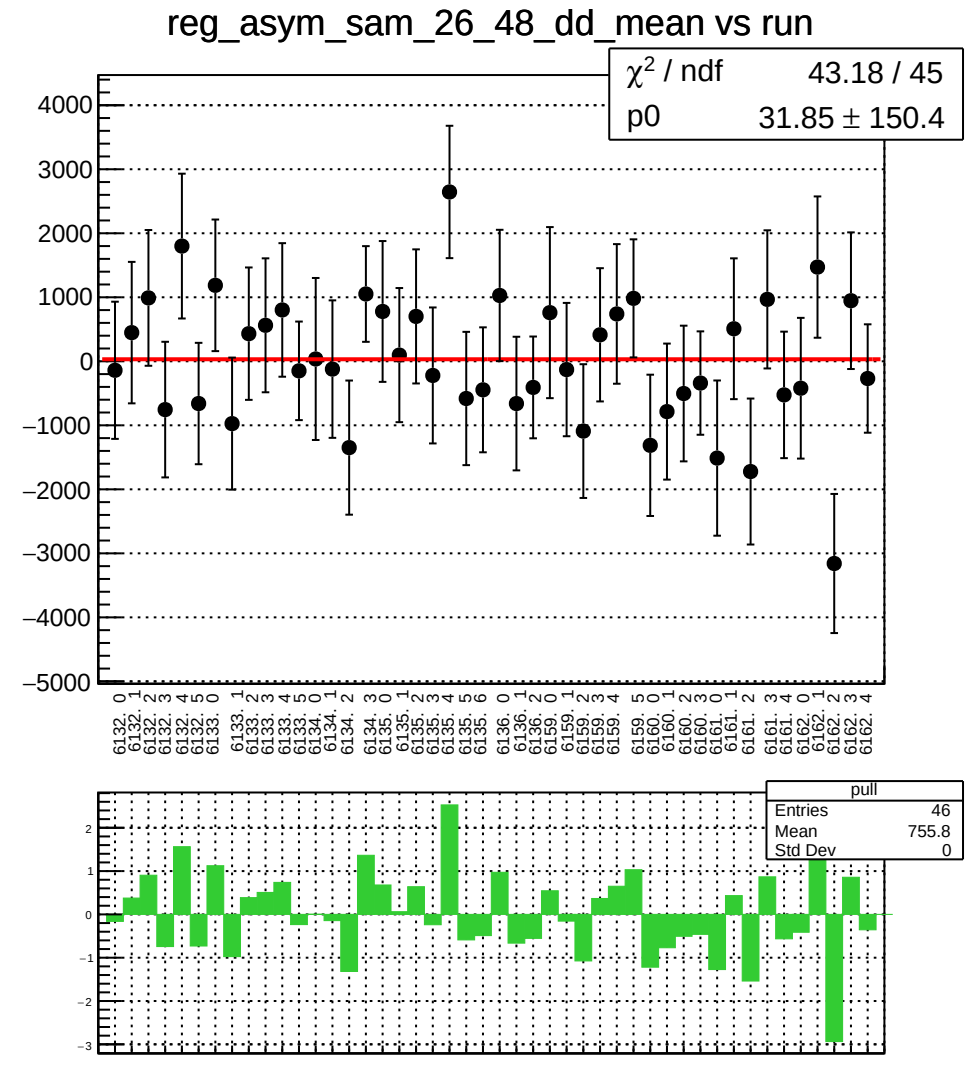
6162. 2
6162. 3
6162. 4

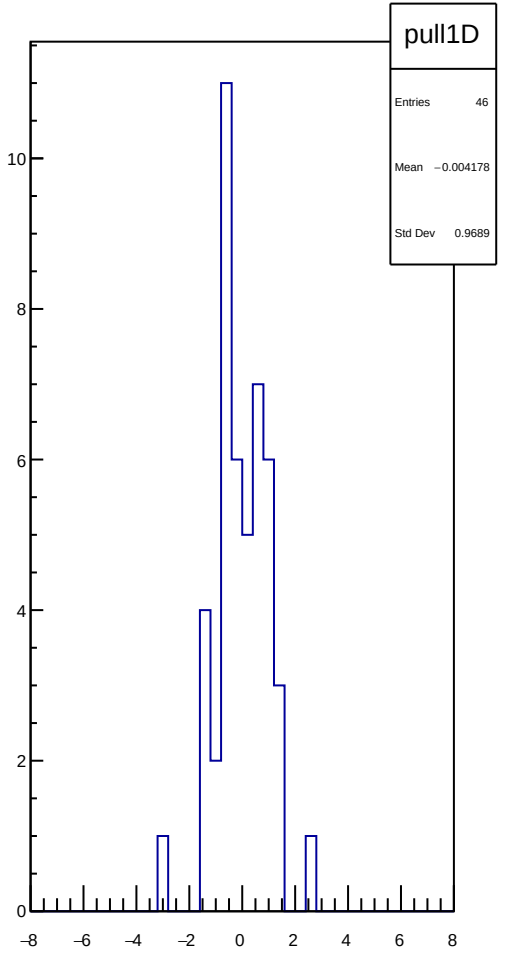

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.2 / 45
p0 0.02009 ± 0.06836
1.5
1
0.5
0
−0.5
−1
−1.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −160.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.0206
Std Dev 1.055
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

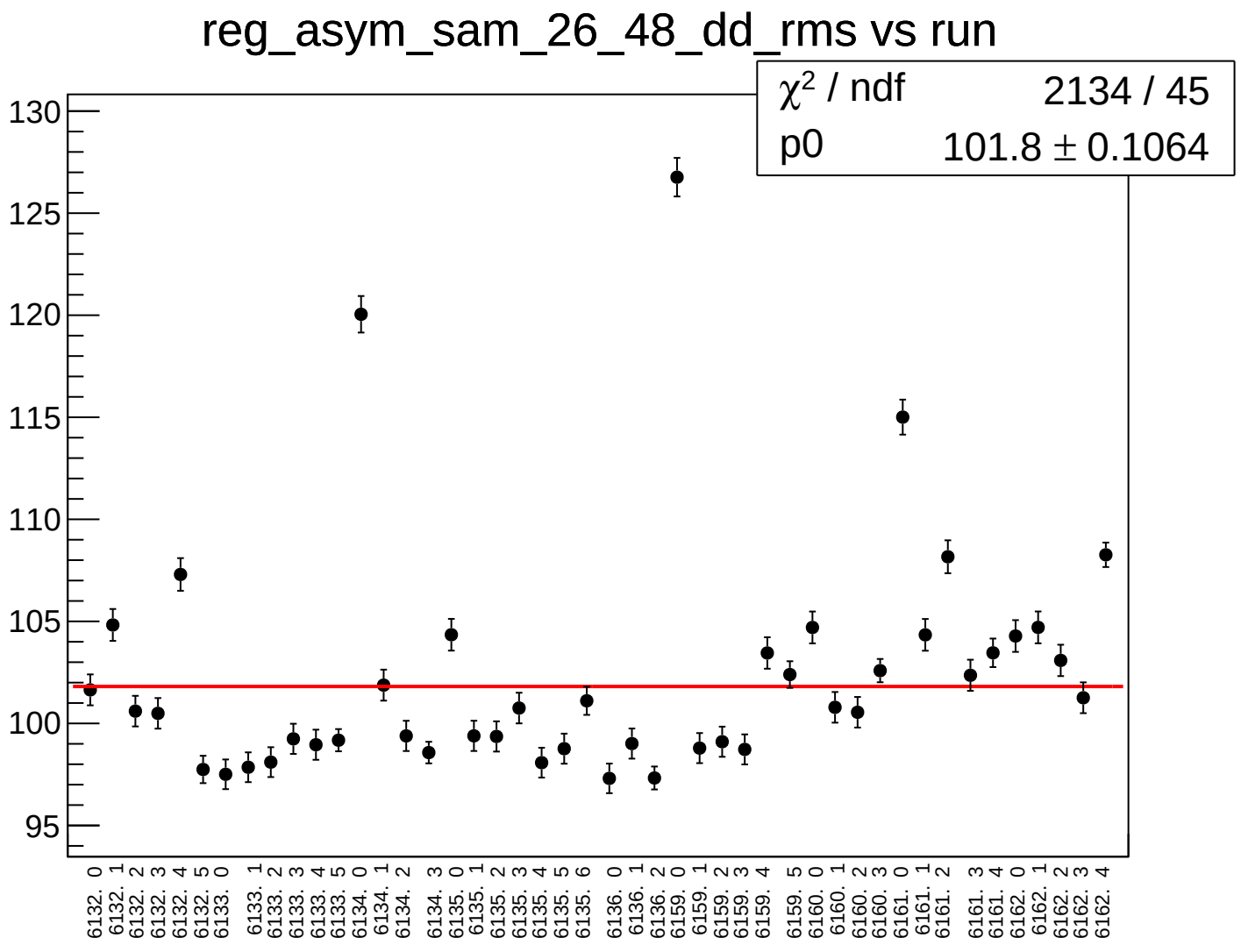

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.521e+04 / 45
p0 45.68 ± 0.04834
70
65
60
55
50
45
40
35
30
25
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

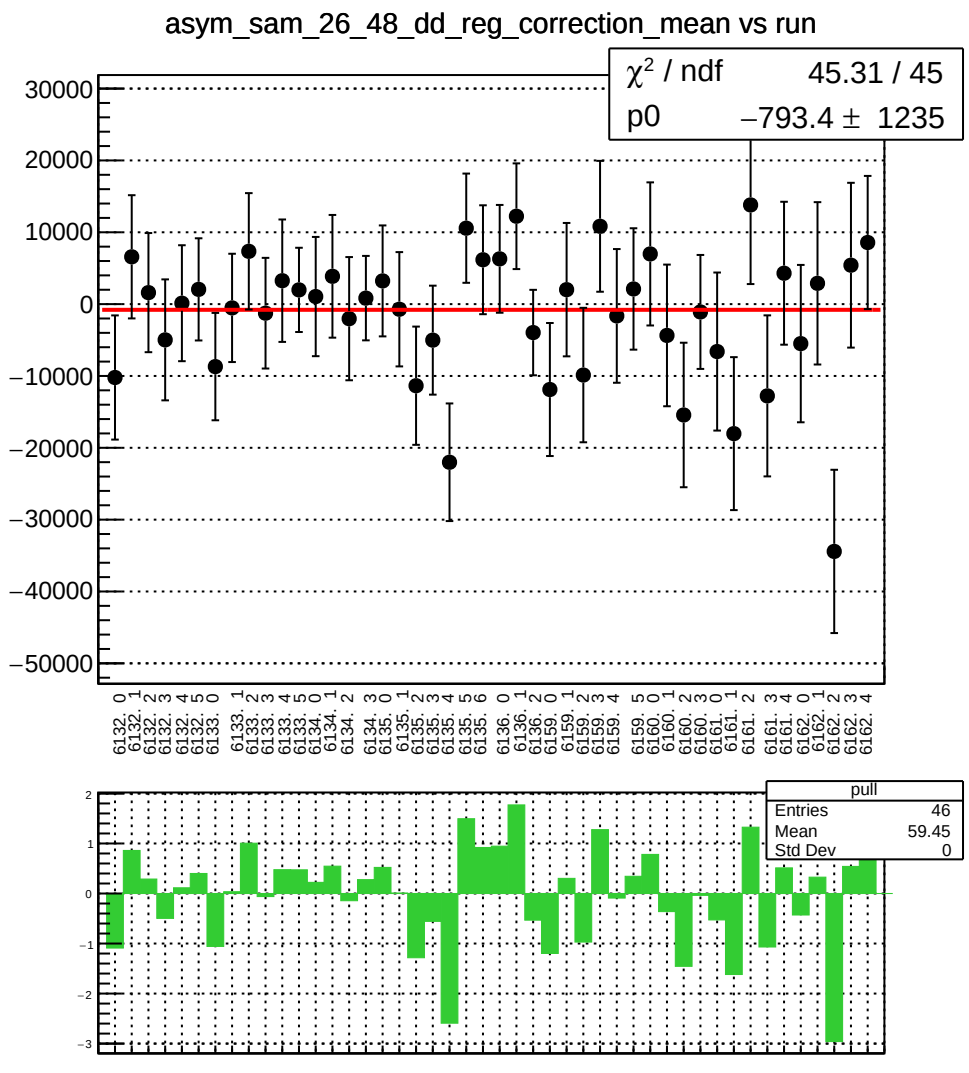

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.25 / 45
p0 −1.853e−14 ± 6.176e−14
pull
Entries 46
Mean 6.27
Std Dev 14.12
pull1D
Entries 46
Mean −0.1219
Std Dev 0.9732

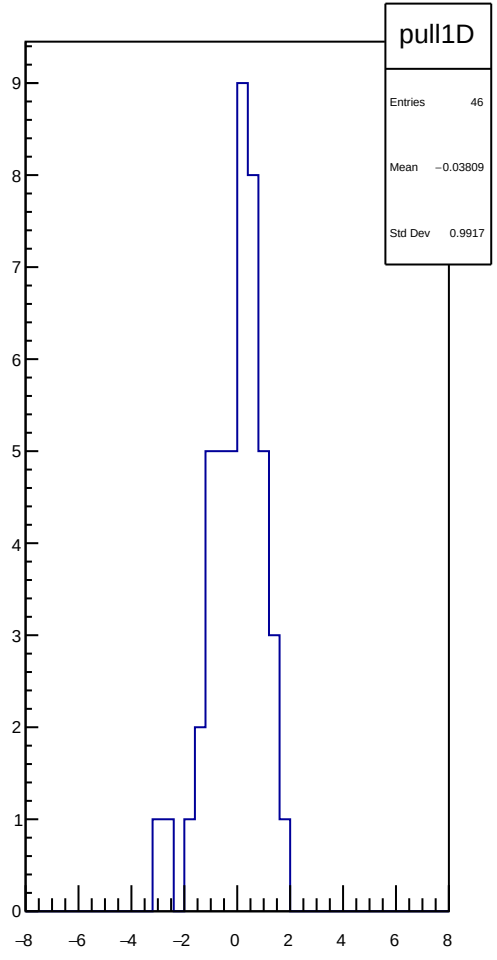

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.875e+05 / 45
p0 2.511e−11 ± 4.367e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

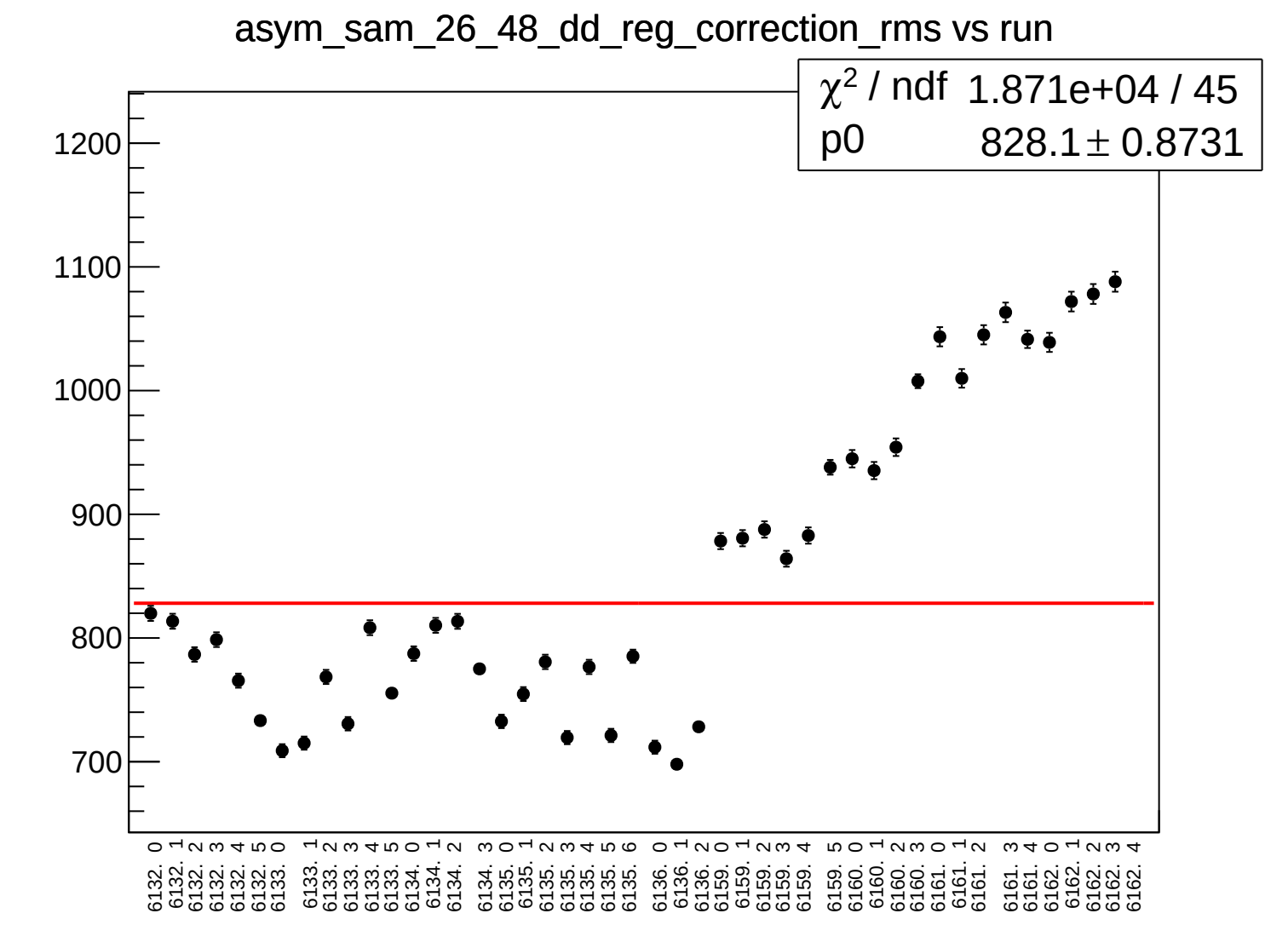

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 43.18 / 45
p0 31.85 ± 150.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 755.8
Std Dev 0
2
1
0
−1
−2
−3

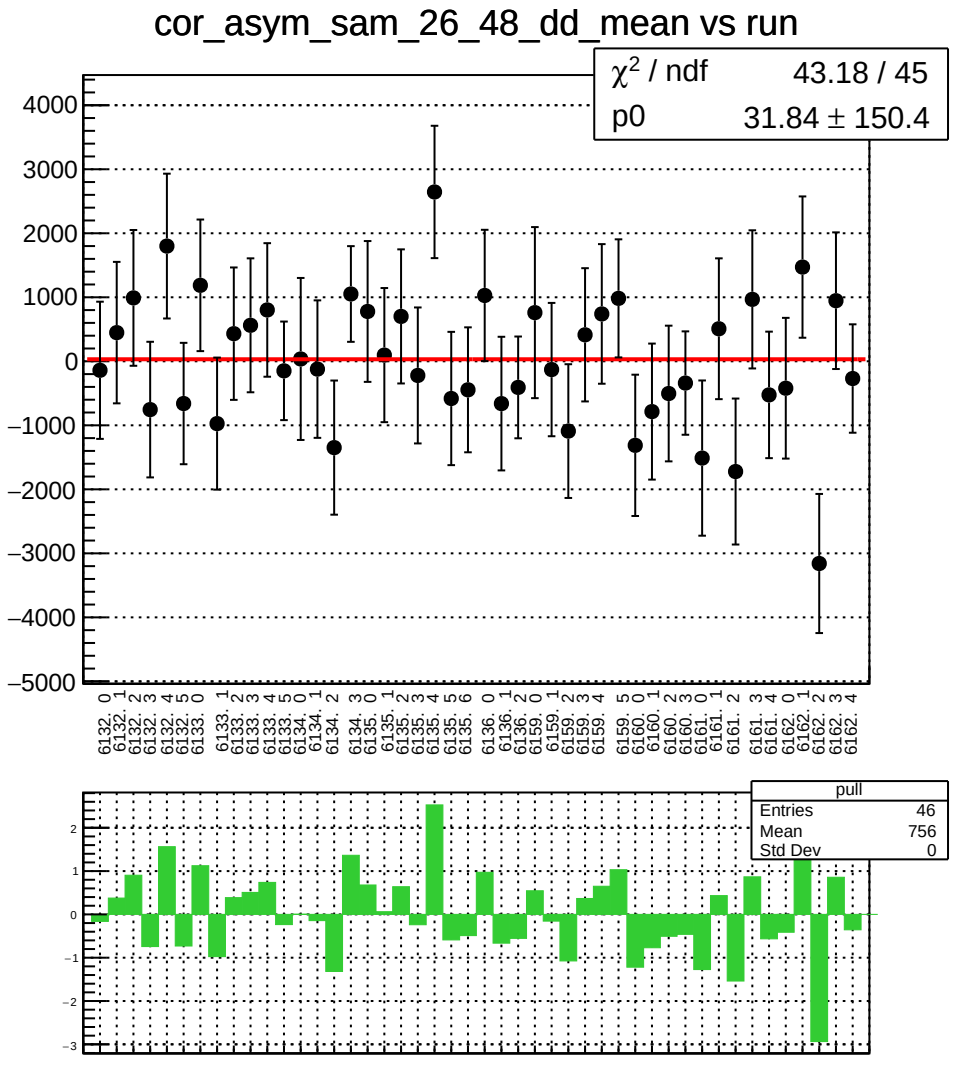

pull1D
Entries 46
Mean −0.004178
Std Dev 0.9689
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

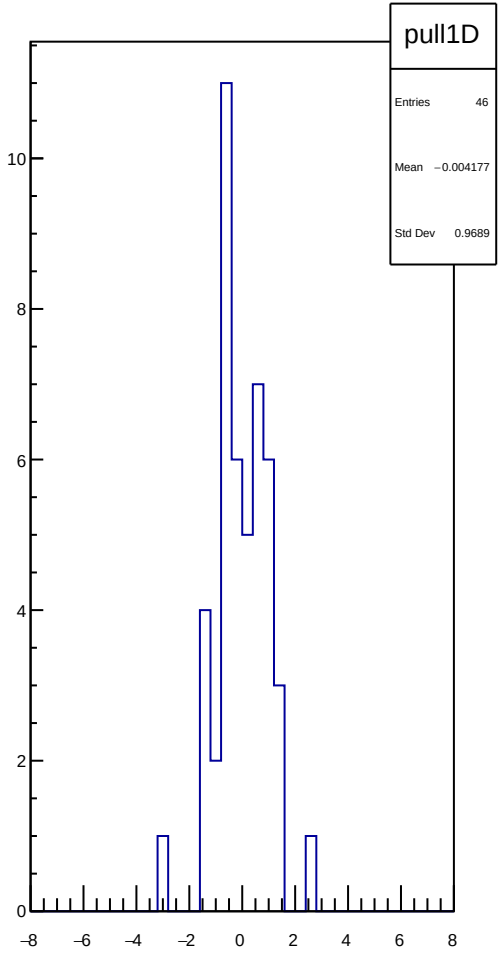

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 2134 / 45
p0 101.8 ± 0.1064
130
125
120
115
110
105
100
95
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

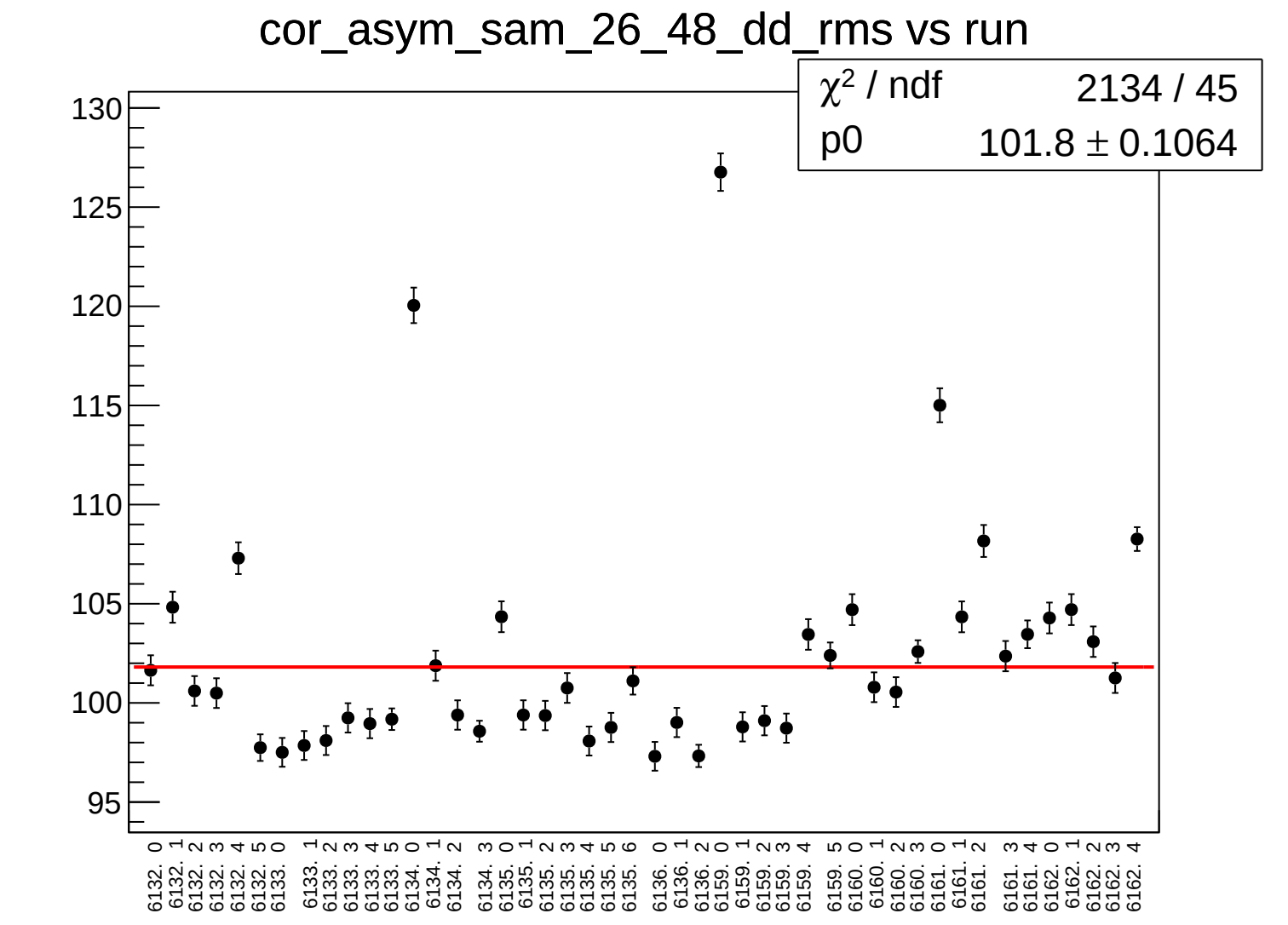

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 45.31 / 45
p0 −793.4 ± 1235
pull
Entries 46
Mean 59.45
Std Dev 0

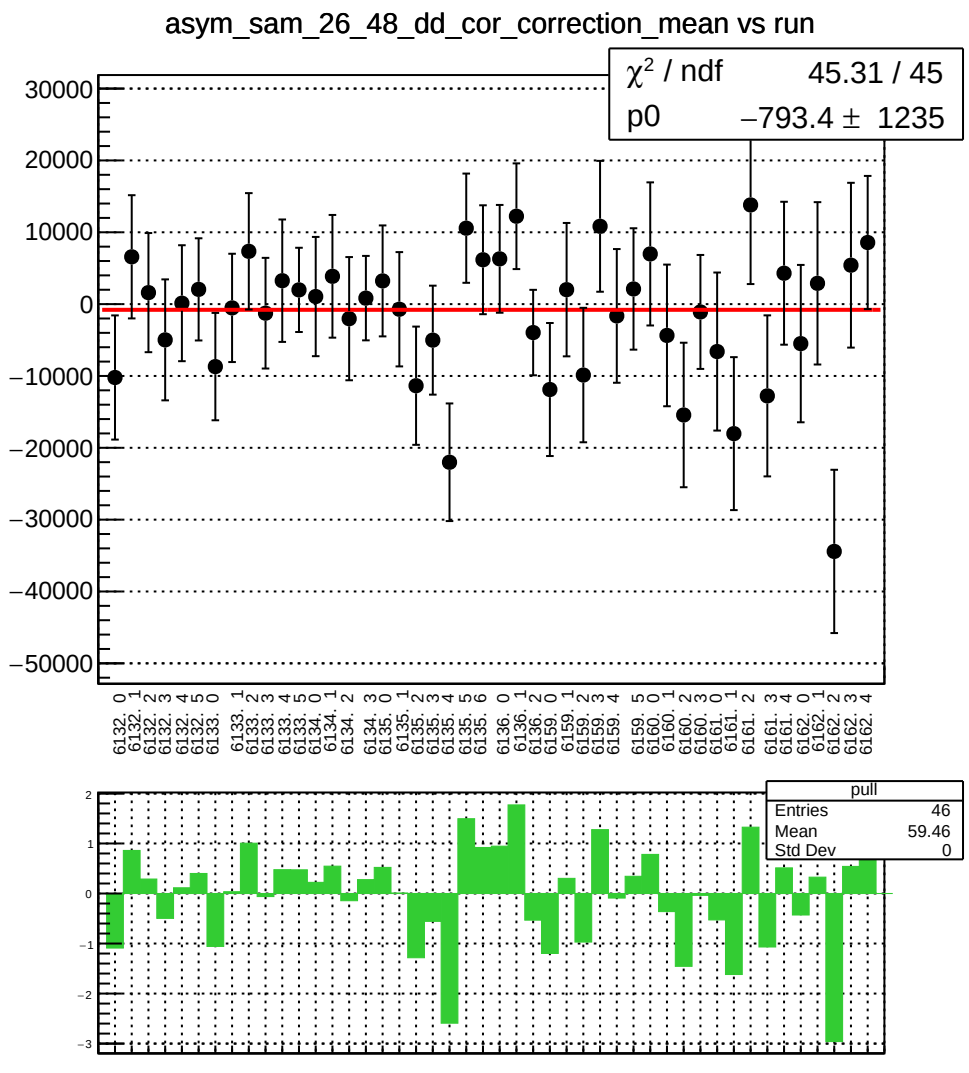

pull1D
Entries 46
Mean −0.03809
Std Dev 0.9917

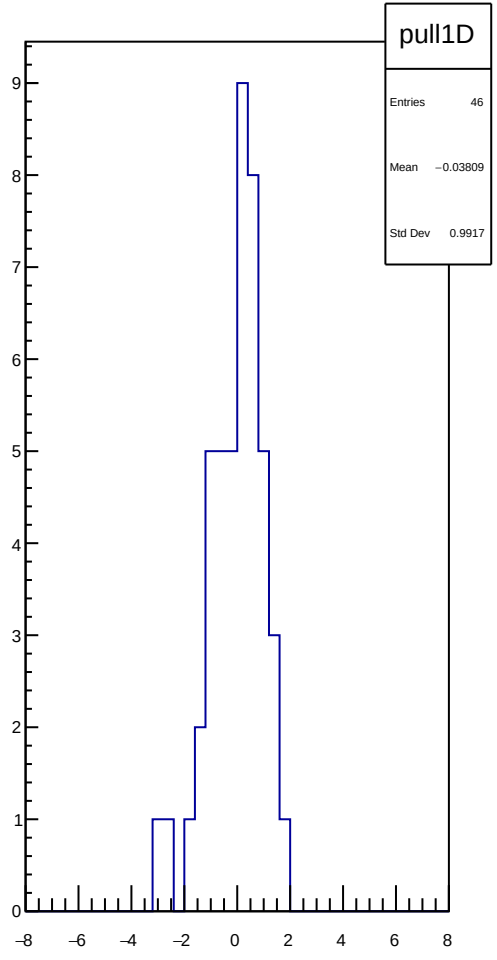

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 1.871e+04 / 45
p0 828.1 ± 0.8731
1200
1100
1000
900
800
700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

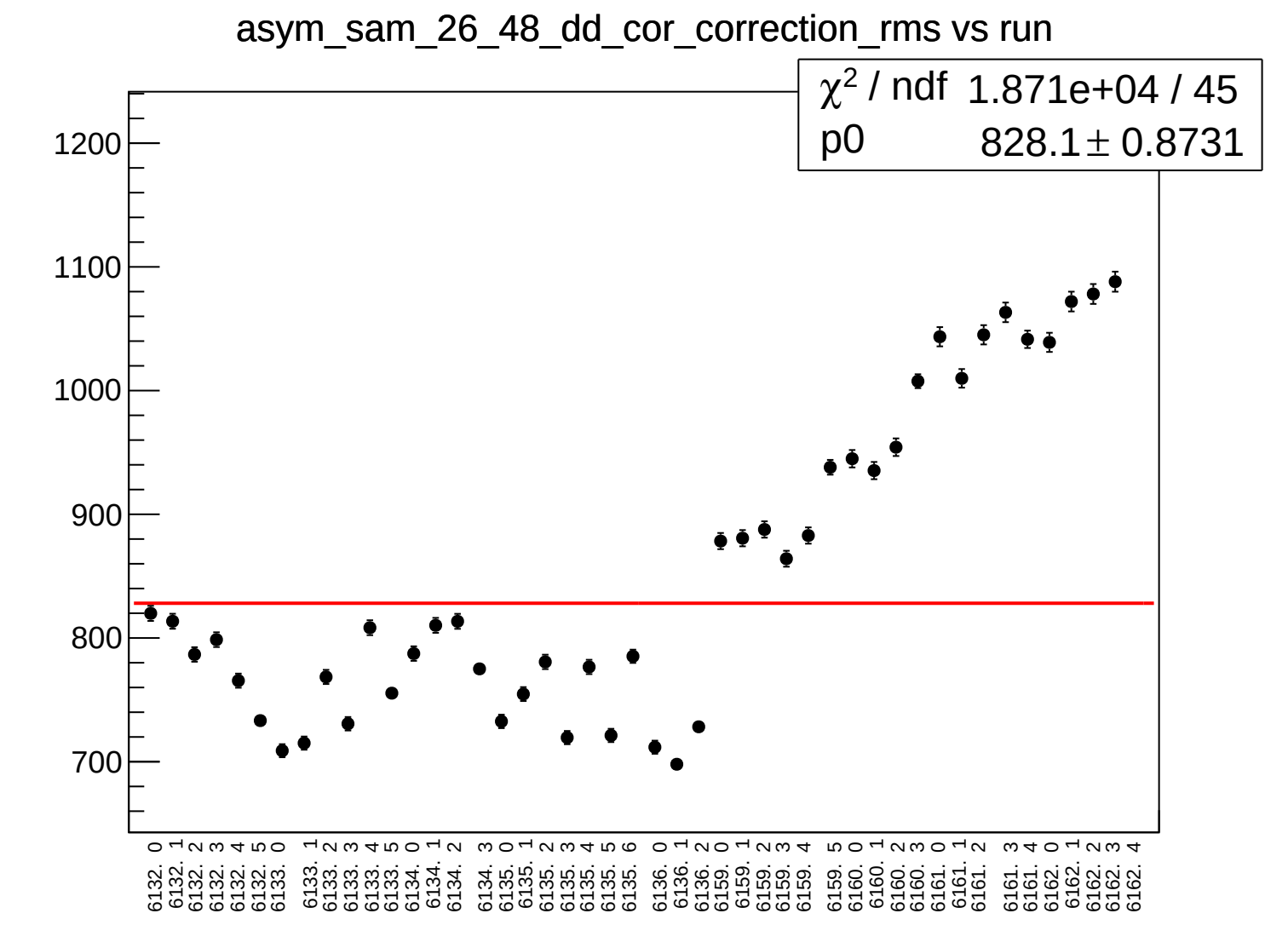

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 43.18 / 45
p0 31.84 ± 150.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 756
Std Dev 0
2
1
0
−1
−2
−3

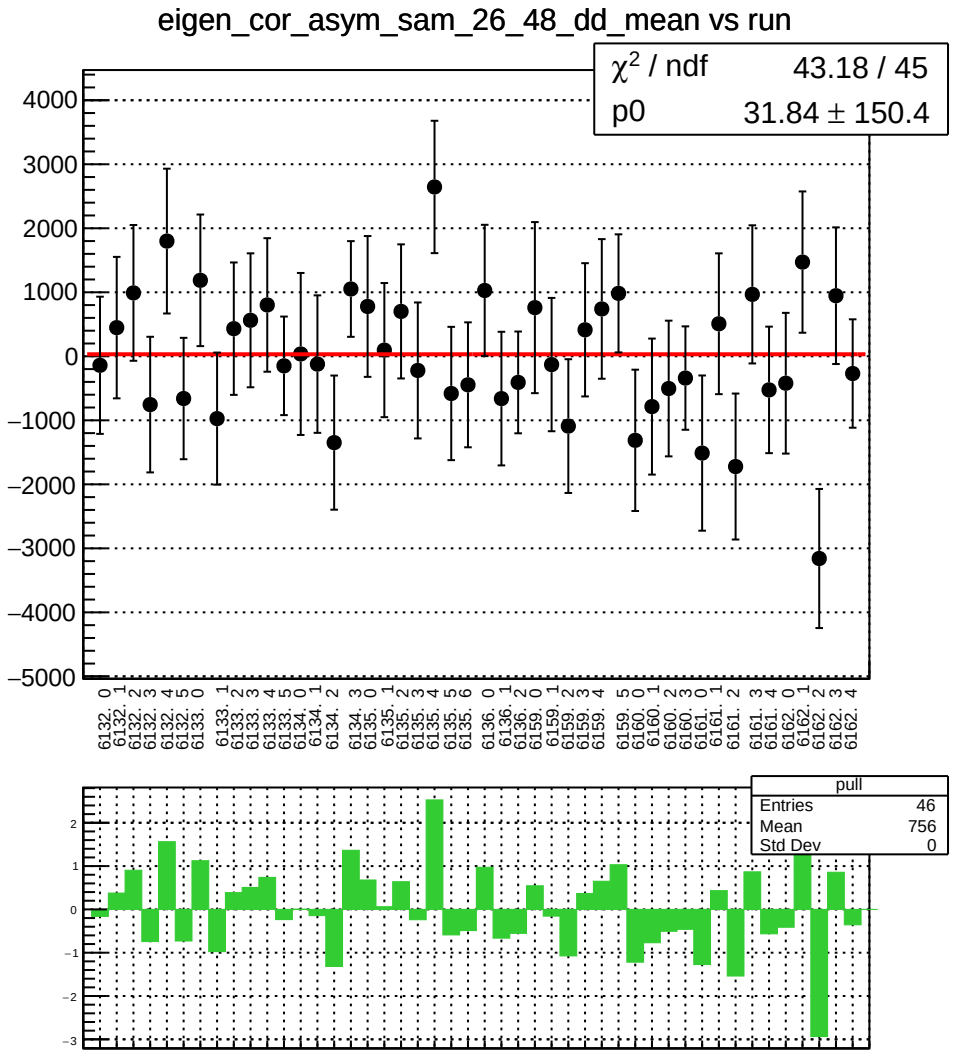

pull1D
Entries 46
Mean −0.004177
Std Dev 0.9689
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

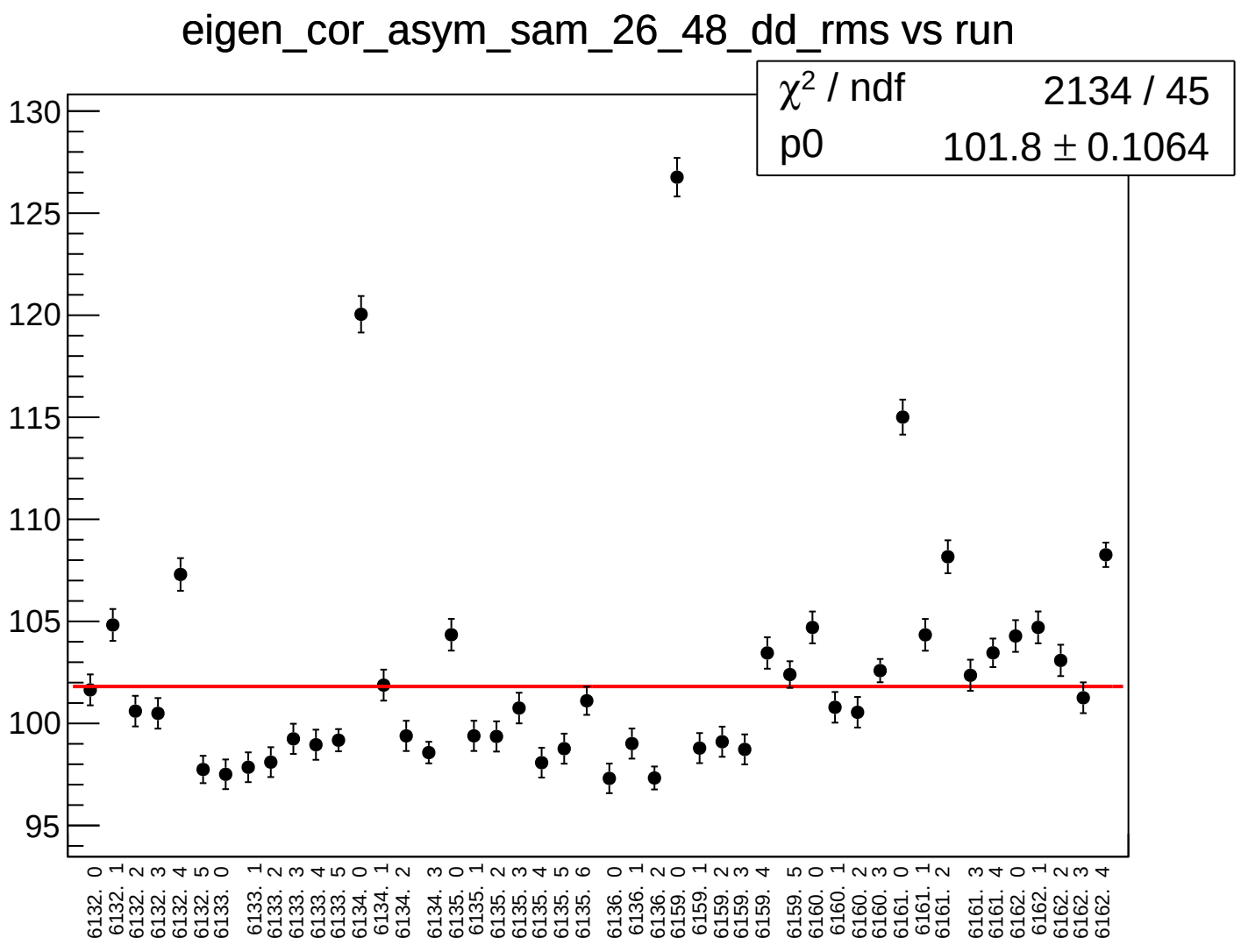

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 2134 / 45
p0 101.8 ± 0.1064
130
125
120
115
110
105
100
95
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

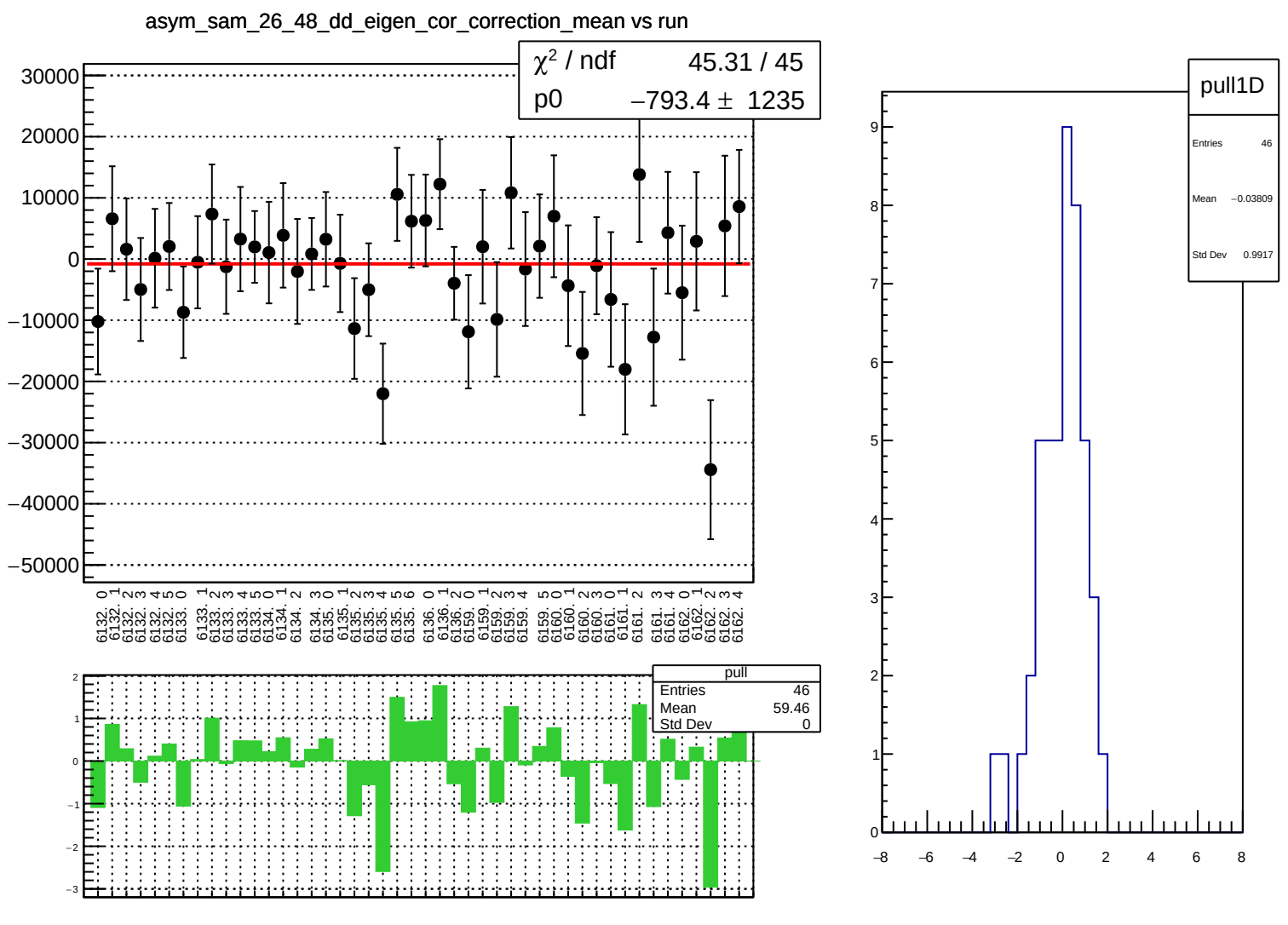

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 45.31 / 45
p0 −793.4 ± 1235
pull
Entries 46
Mean 59.46
Std Dev 0

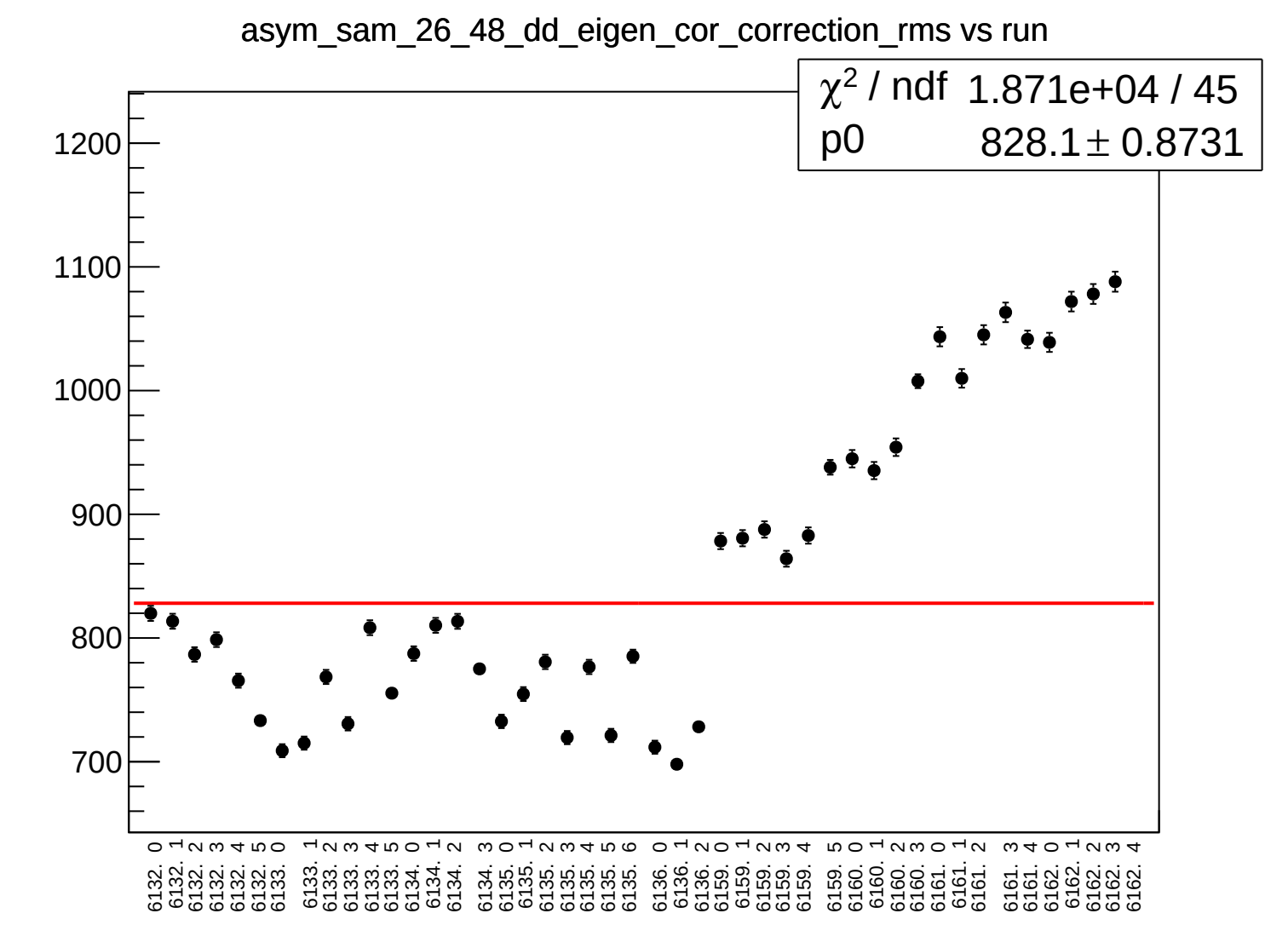

pull1D
Entries 46
Mean −0.03809
Std Dev 0.9917


asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 1.871e+04 / 45
p0 828.1 ± 0.8731
1200
1100
1000
900
800
700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 43.18 / 45
p0 31.84 ± 150.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 756
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.004177
Std Dev 0.9689
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 2134 / 45
p0 101.8 ± 0.1064
130
125
120
115
110
105
100
95
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 45.31 / 45
p0 −793.4 ± 1235
pull
Entries 46
Mean 59.46
Std Dev 0
pull1D
Entries 46
Mean −0.03809
Std Dev 0.9917


asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.871e+04 / 45
p0 828.1 ± 0.8731
1200
1100
1000
900
800
700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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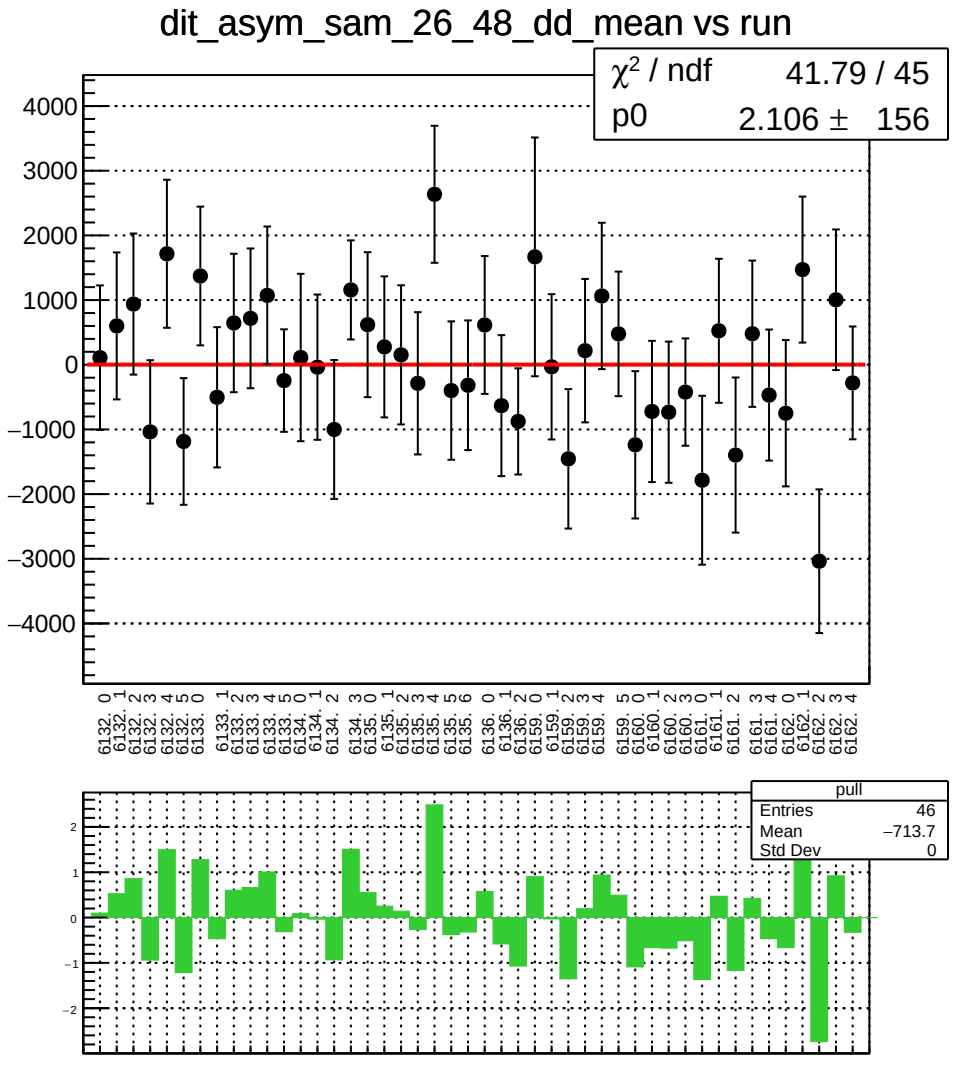
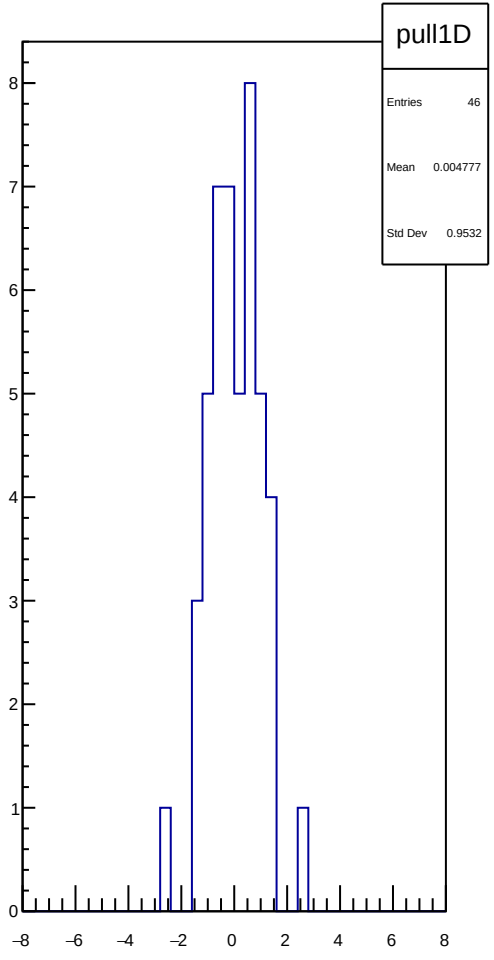
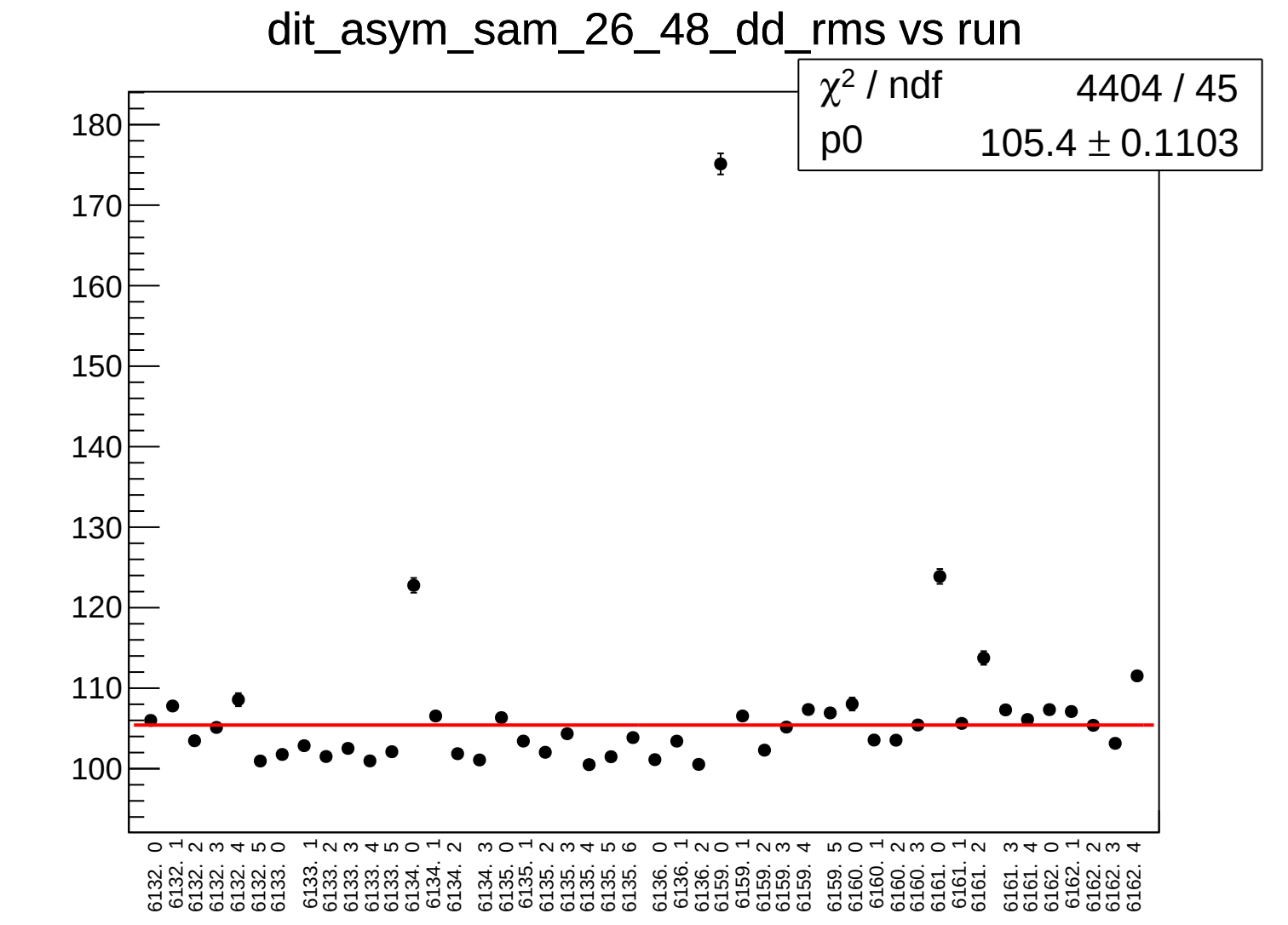
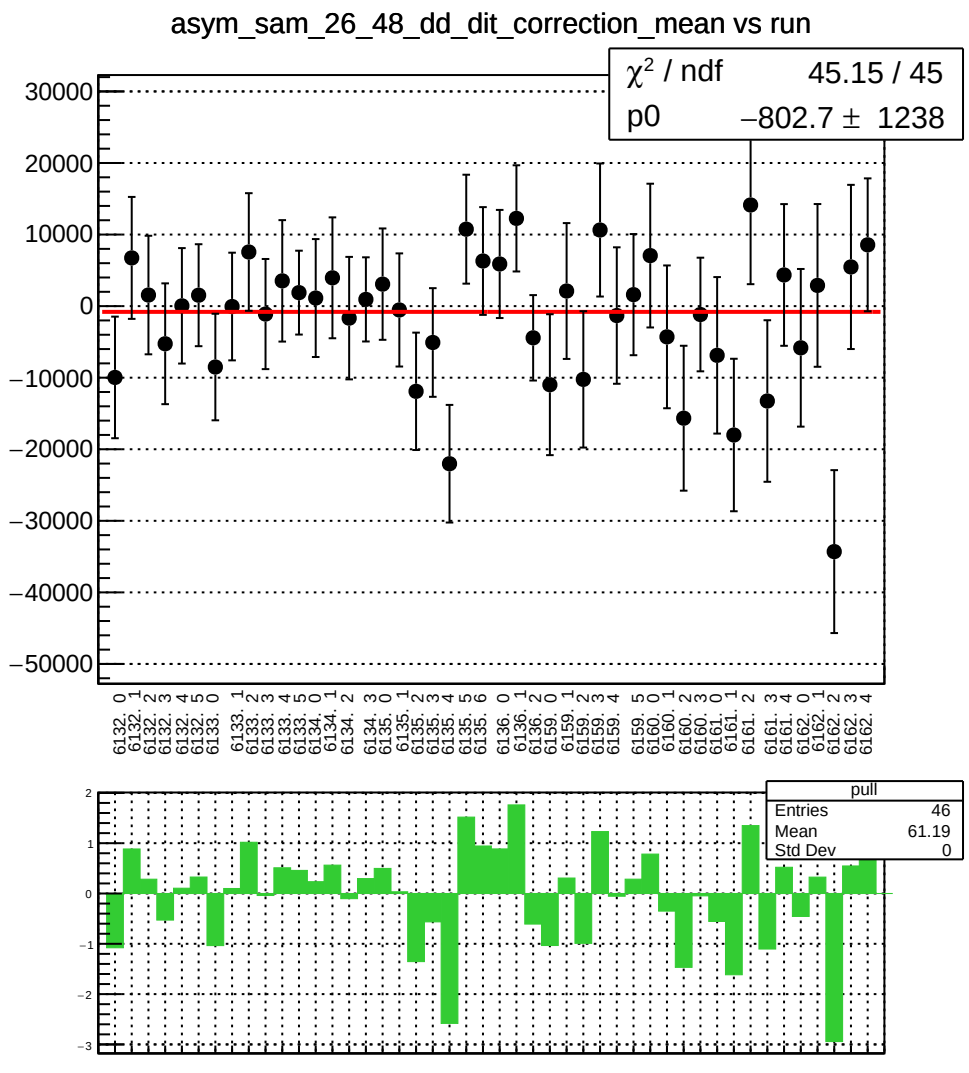
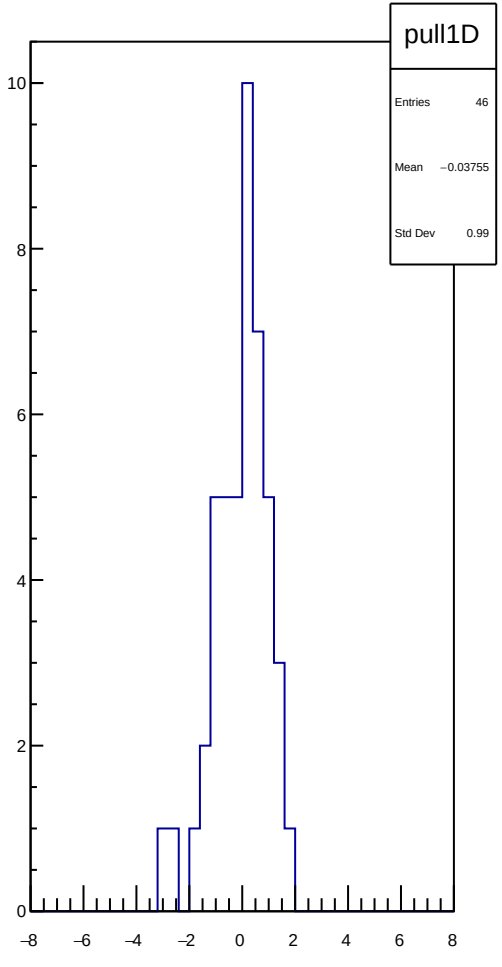
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

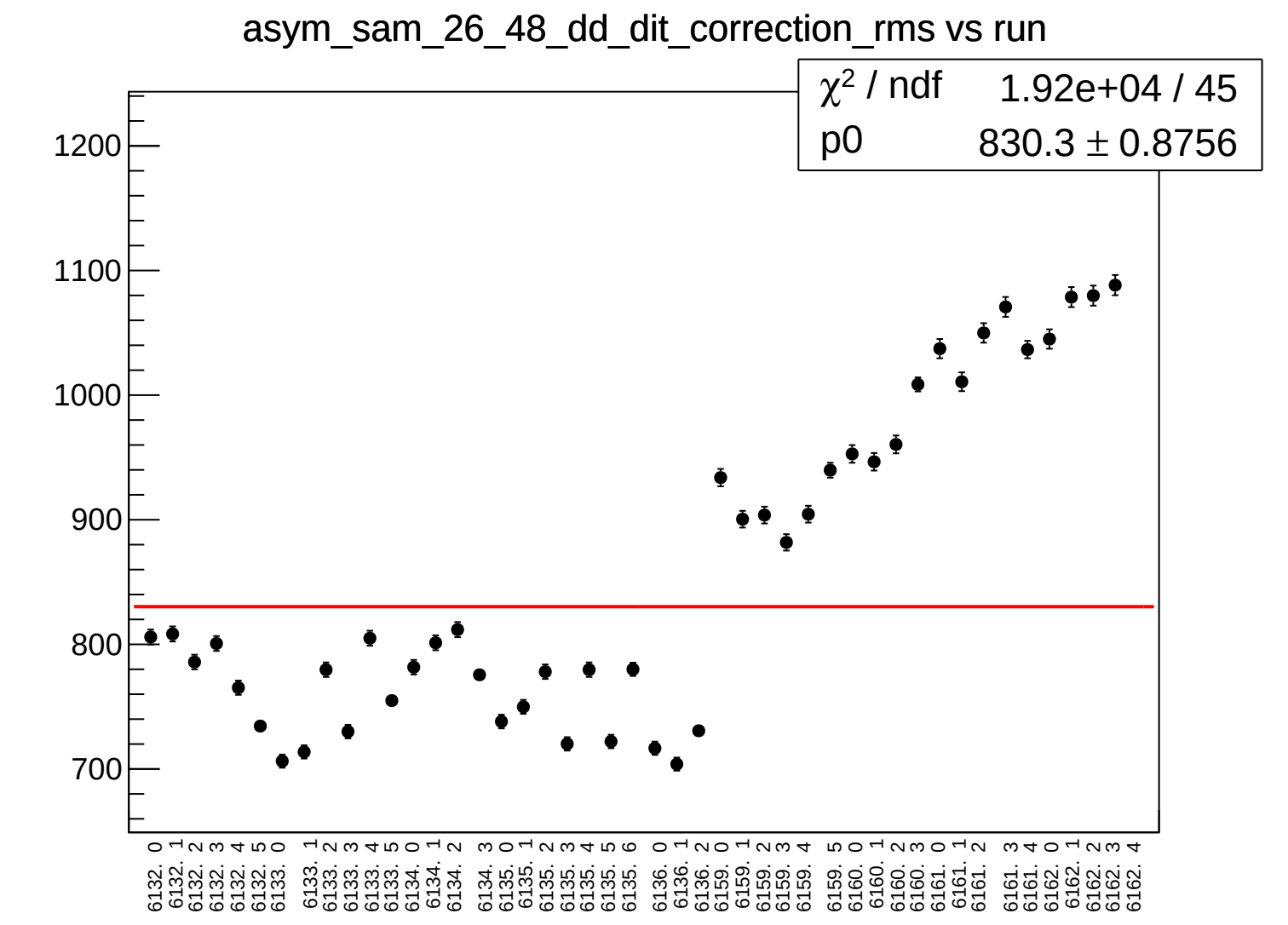

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 41.79 / 45
p0 2.106 ± 156
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −713.7
Std Dev 0
2
1
0
−1
−2

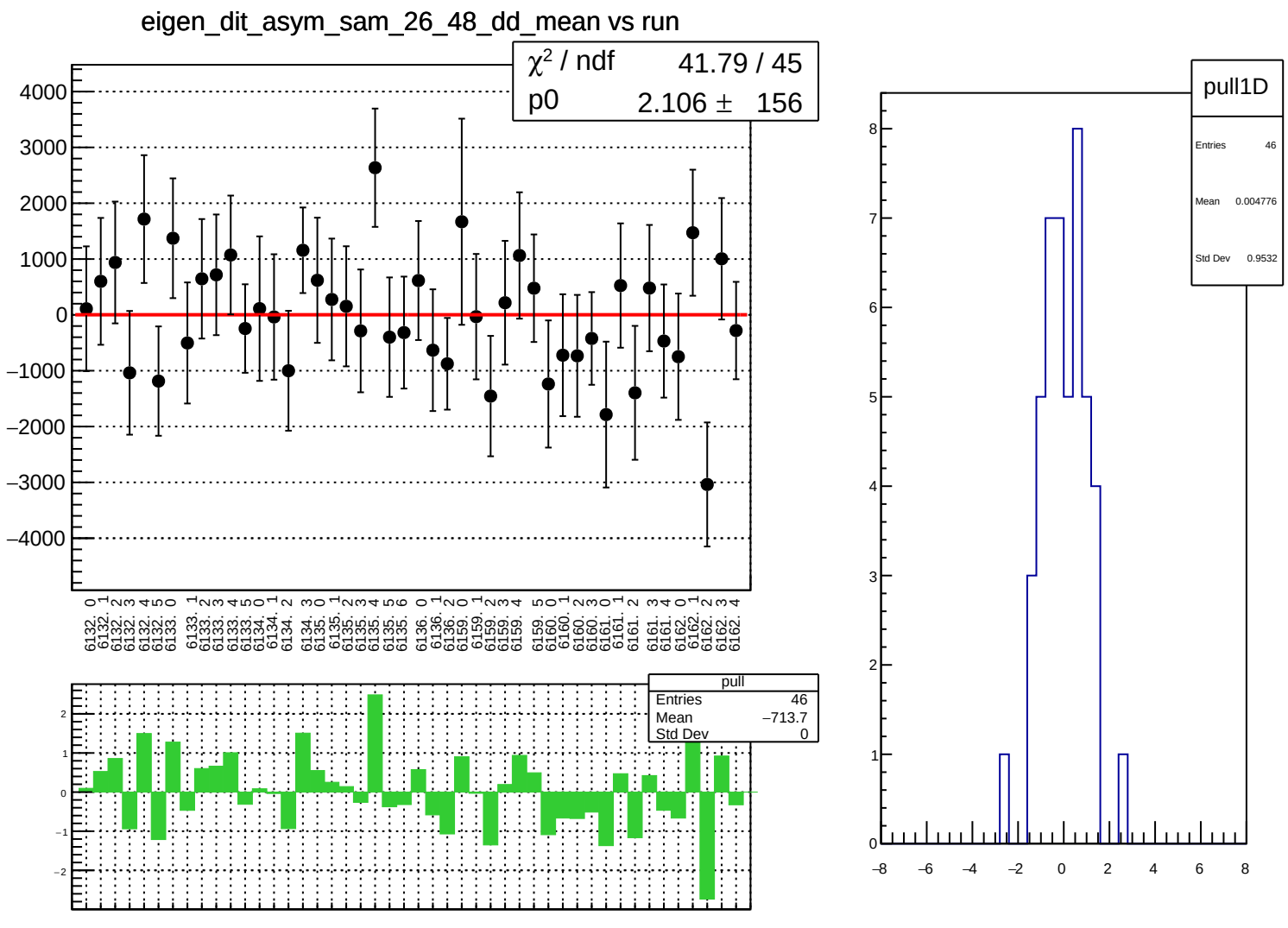

pull1D
Entries 46
Mean 0.004777
Std Dev 0.9532
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

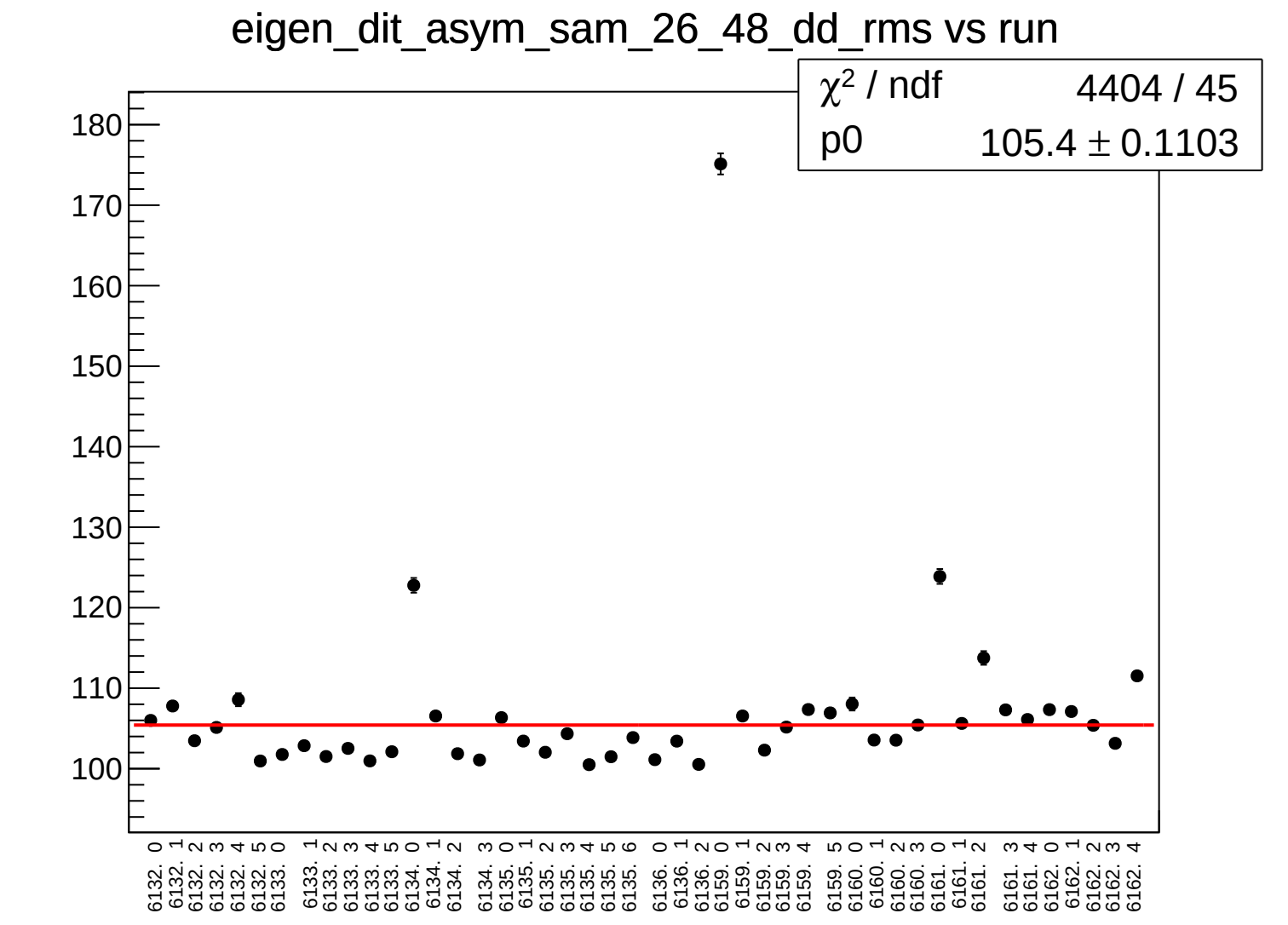

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 4404 / 45
p0 105.4 ± 0.1103
180
170
160
150
140
130
120
110
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

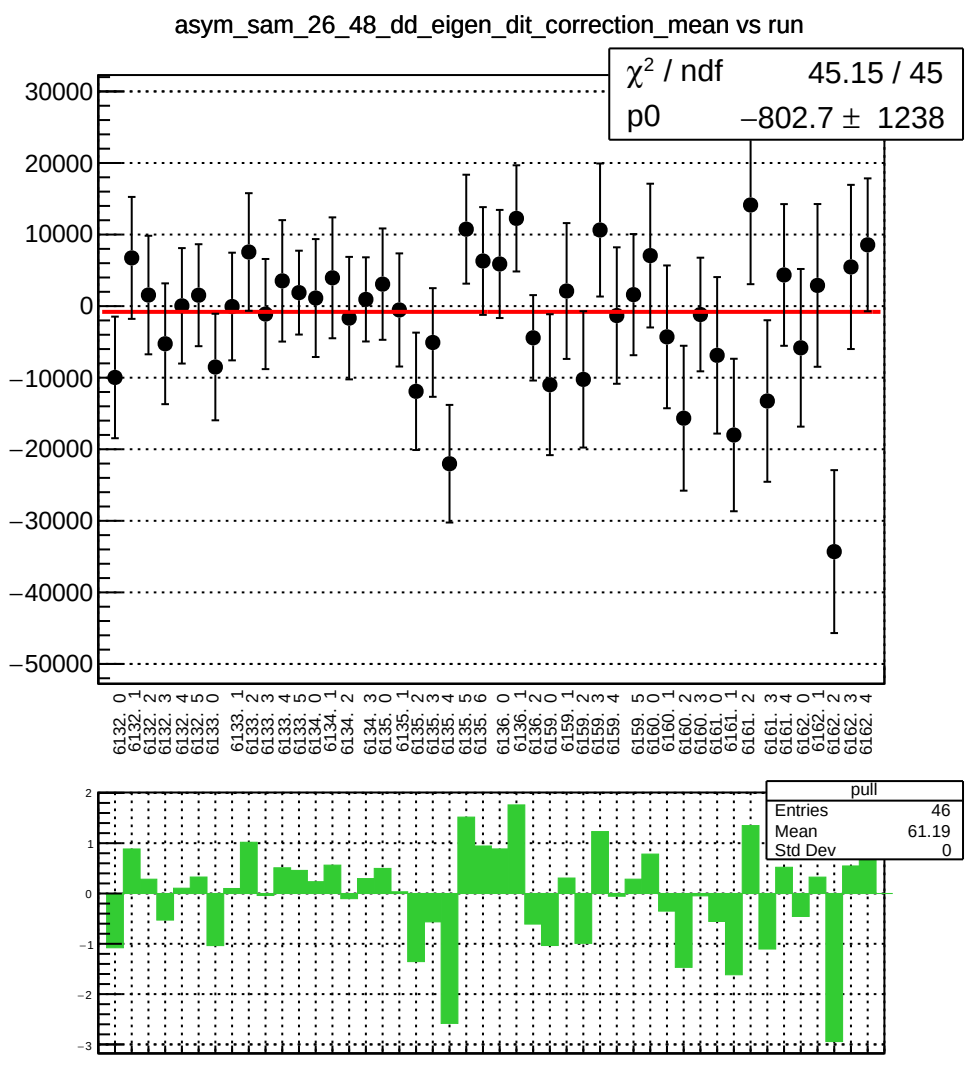

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 45.15 / 45
p0 −802.7 ± 1238
pull
Entries 46
Mean 61.19
Std Dev 0

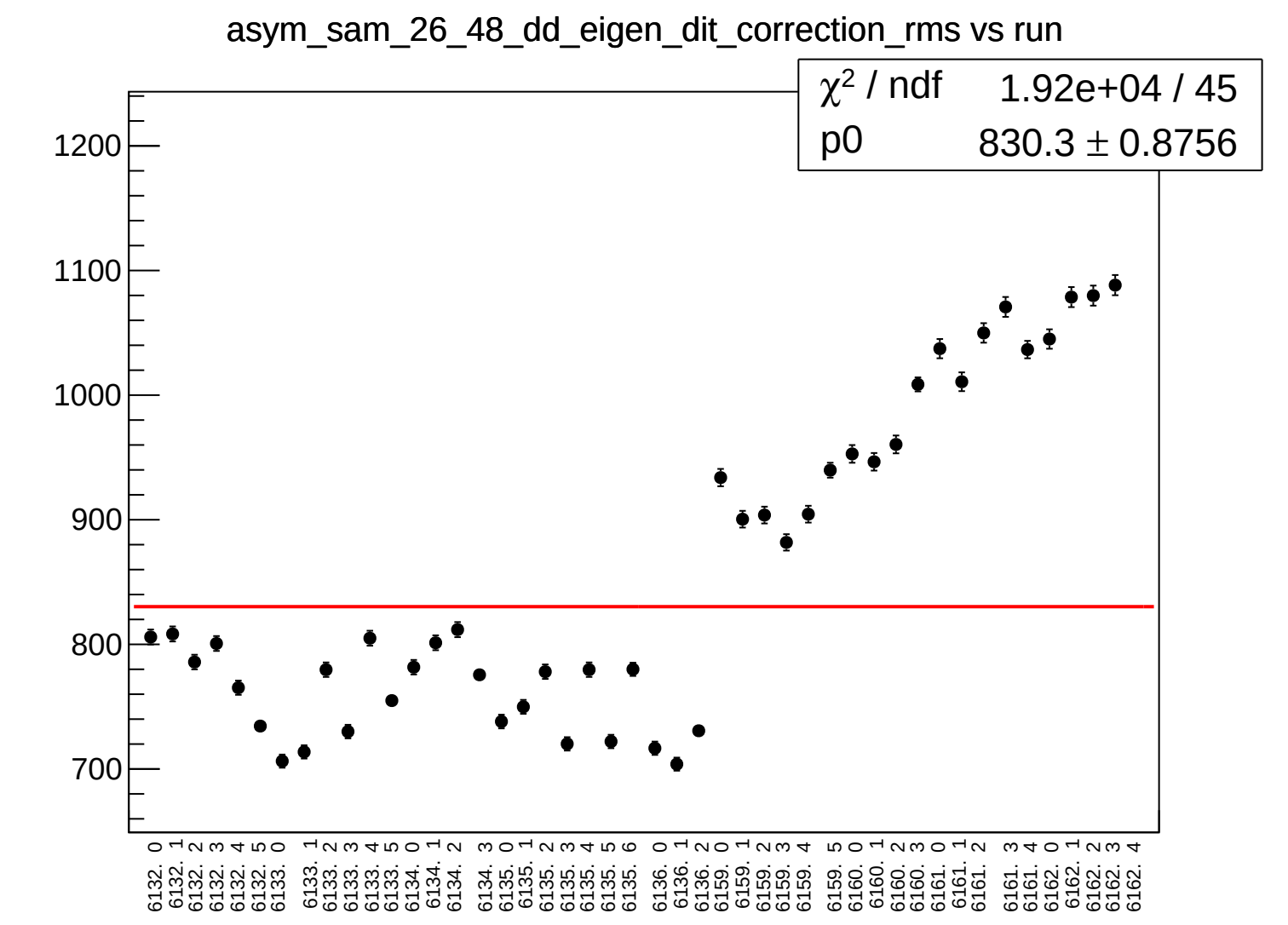

pull1D
Entries 46
Mean −0.03755
Std Dev 0.99

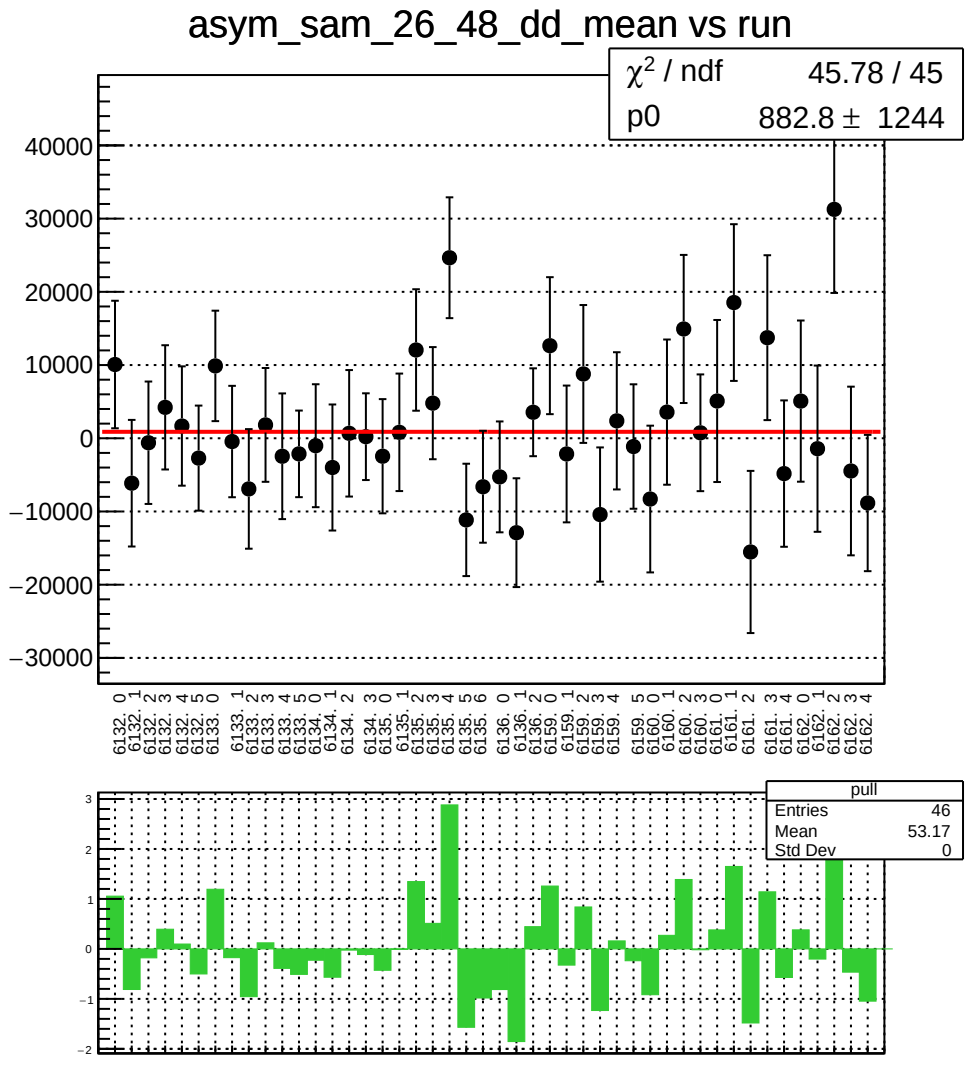

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 1.92e+04 / 45
p0 830.3 ± 0.8756
1200
1100
1000
900
800
700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

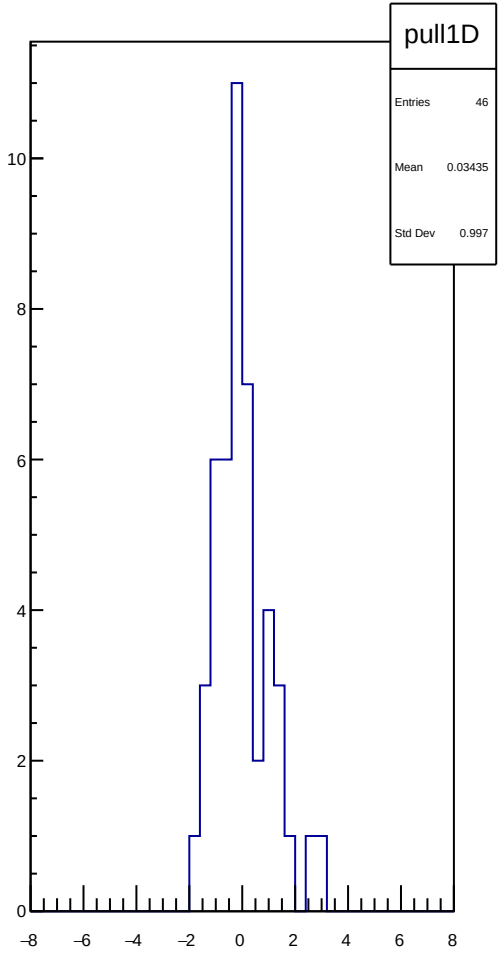

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 41.79 / 45
p0 2.106 ± 156
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −713.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.004776
Std Dev 0.9532
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

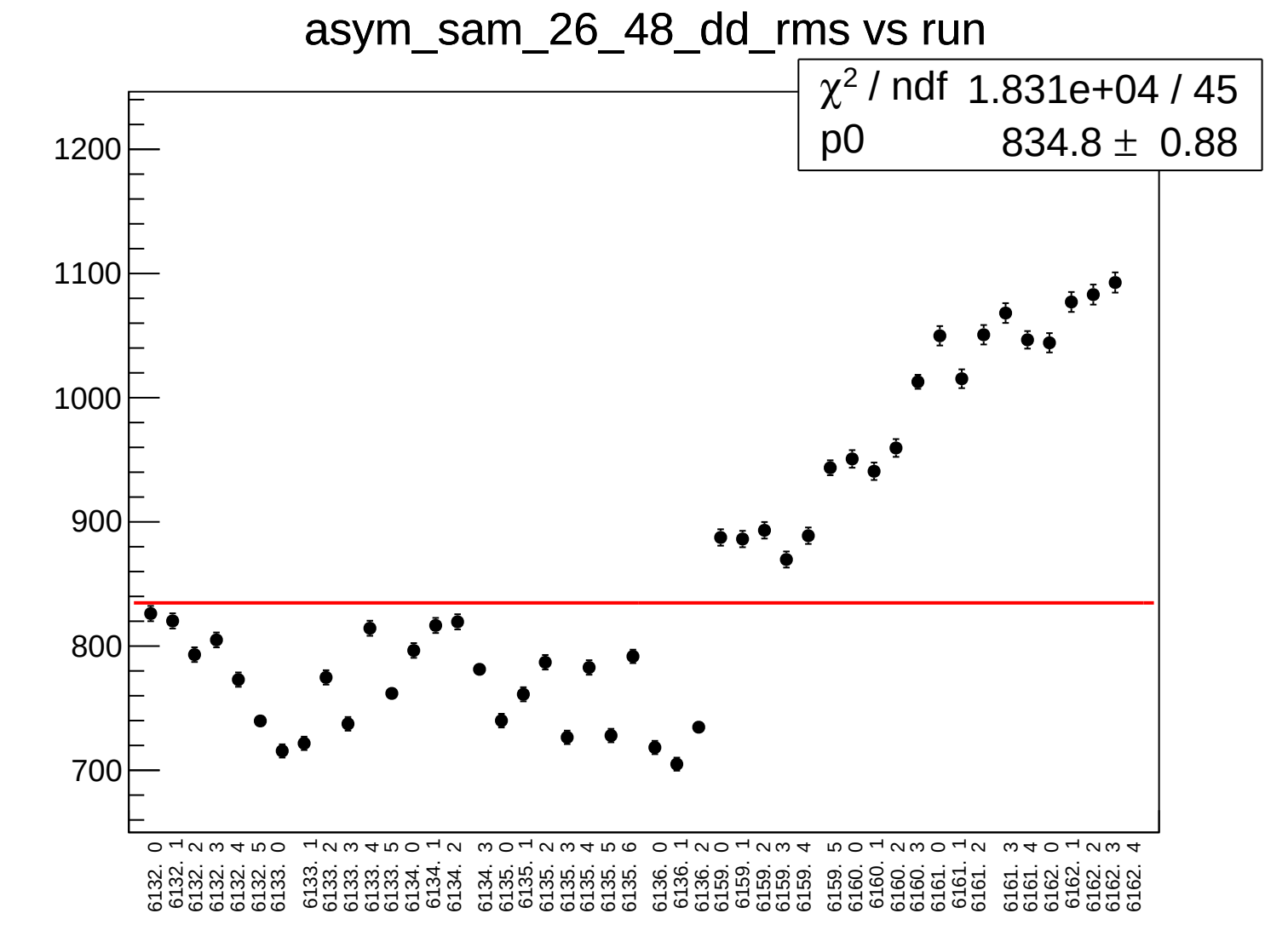

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 4404 / 45
p0 105.4 ± 0.1103
180
170
160
150
140
130
120
110
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

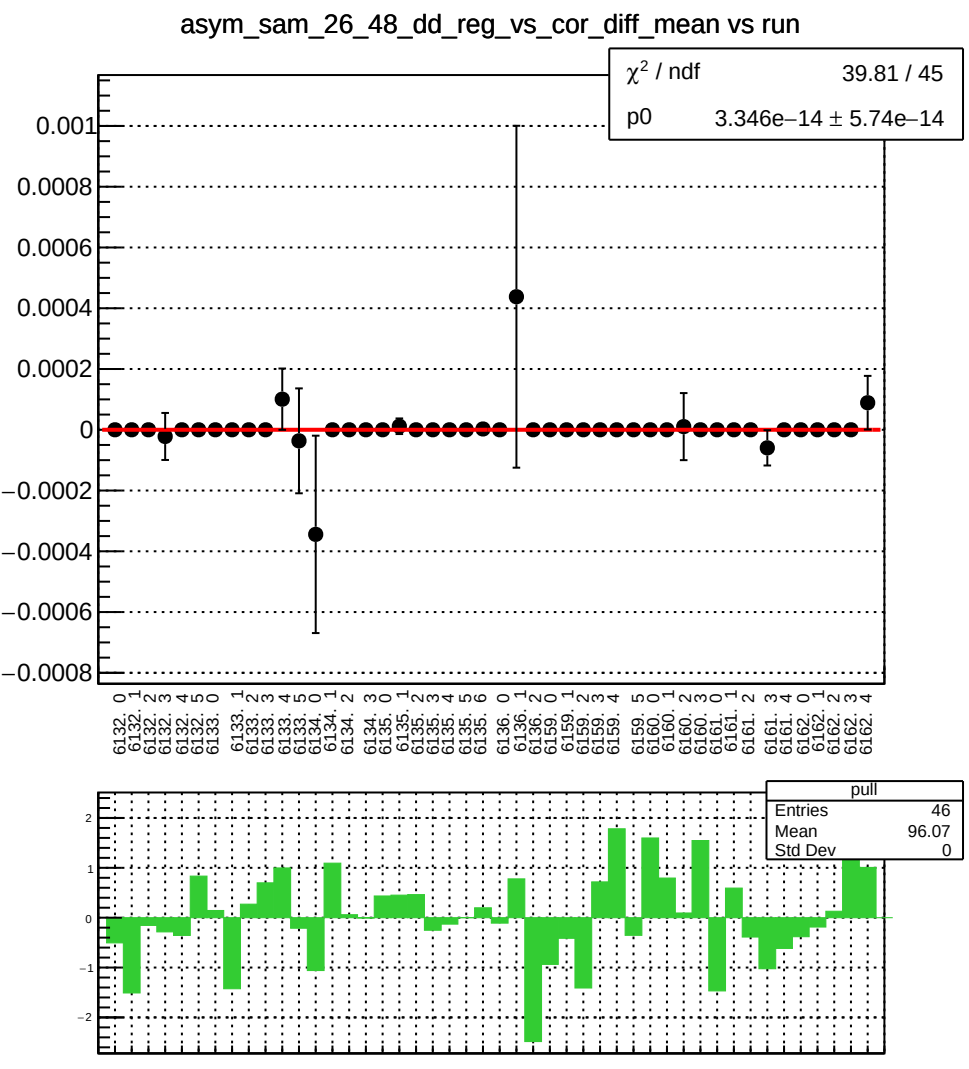

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 45.15 / 45
p0 −802.7 ± 1238
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 61.19
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.03755
Std Dev 0.99
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

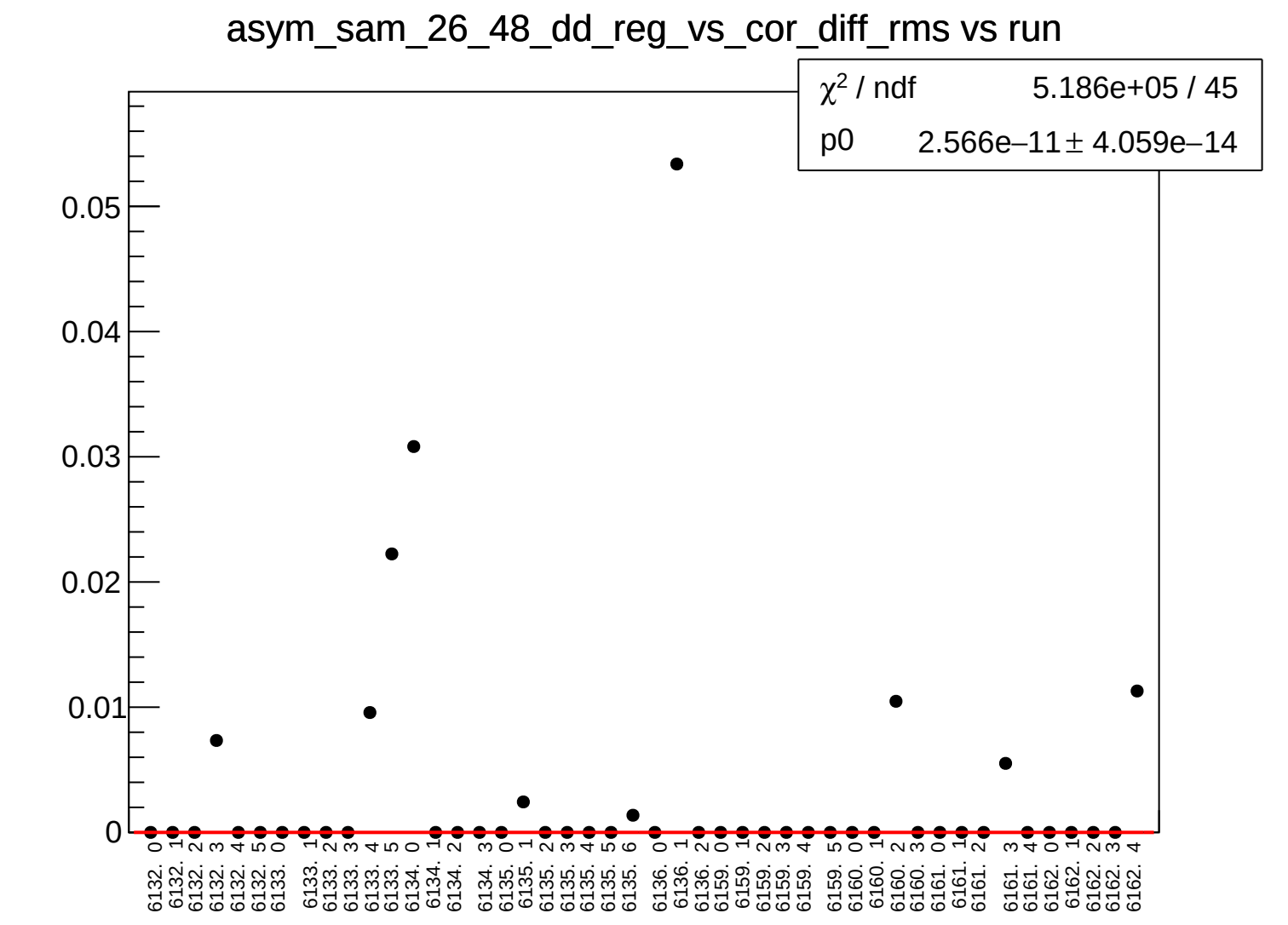

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.92e+04 / 45
p0 830.3 ± 0.8756
1200
1100
1000
900
800
700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

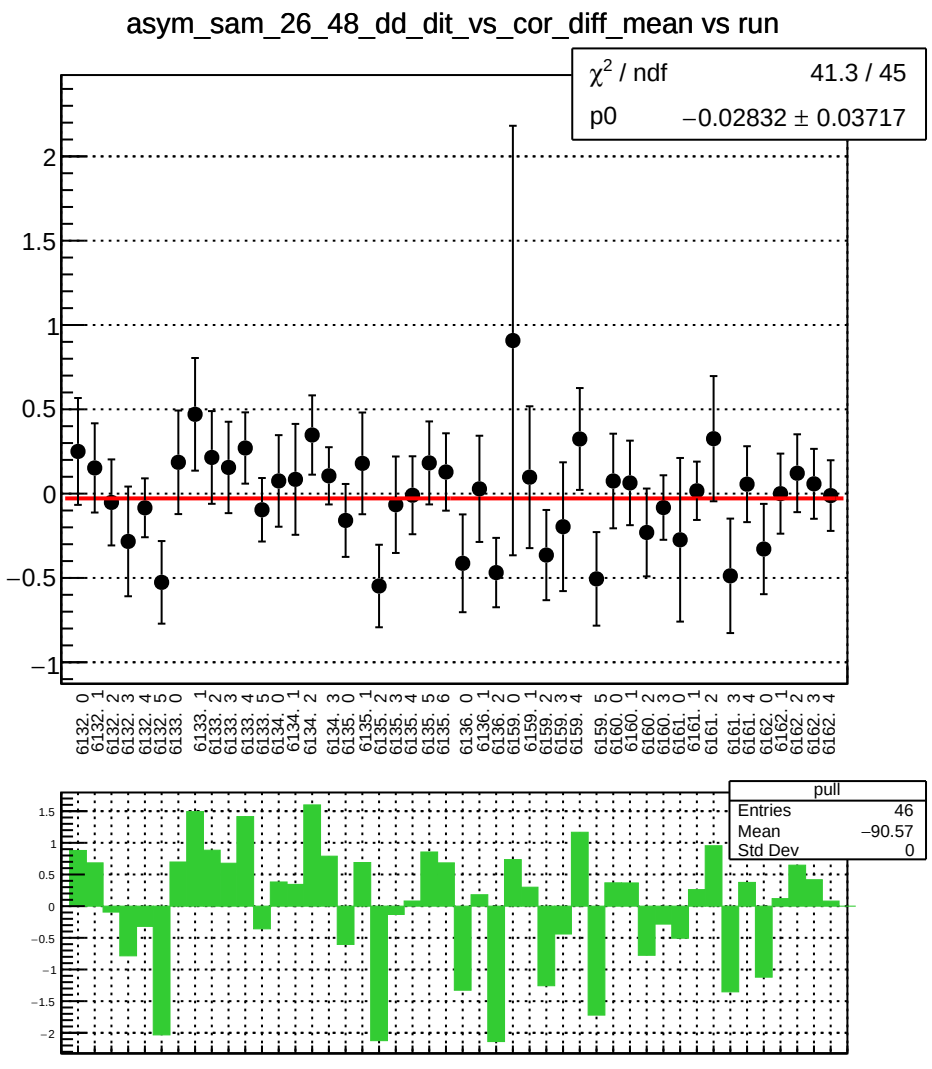

asym_sam_26_48_dd_mean vs run
χ² / ndf 45.78 / 45
p0 882.8 ± 1244
40000
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 53.17
Std Dev 0
3
2
1
0
−1
−2

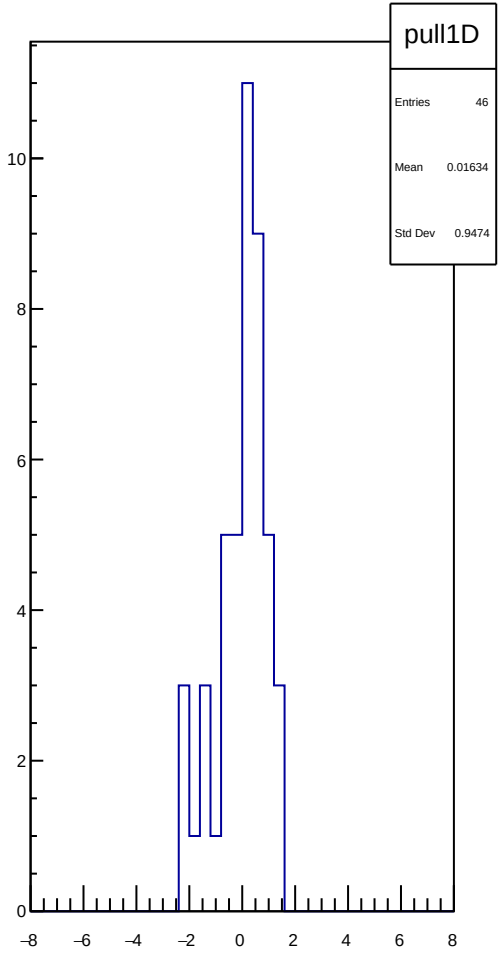

pull1D
Entries 46
Mean 0.03435
Std Dev 0.997
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

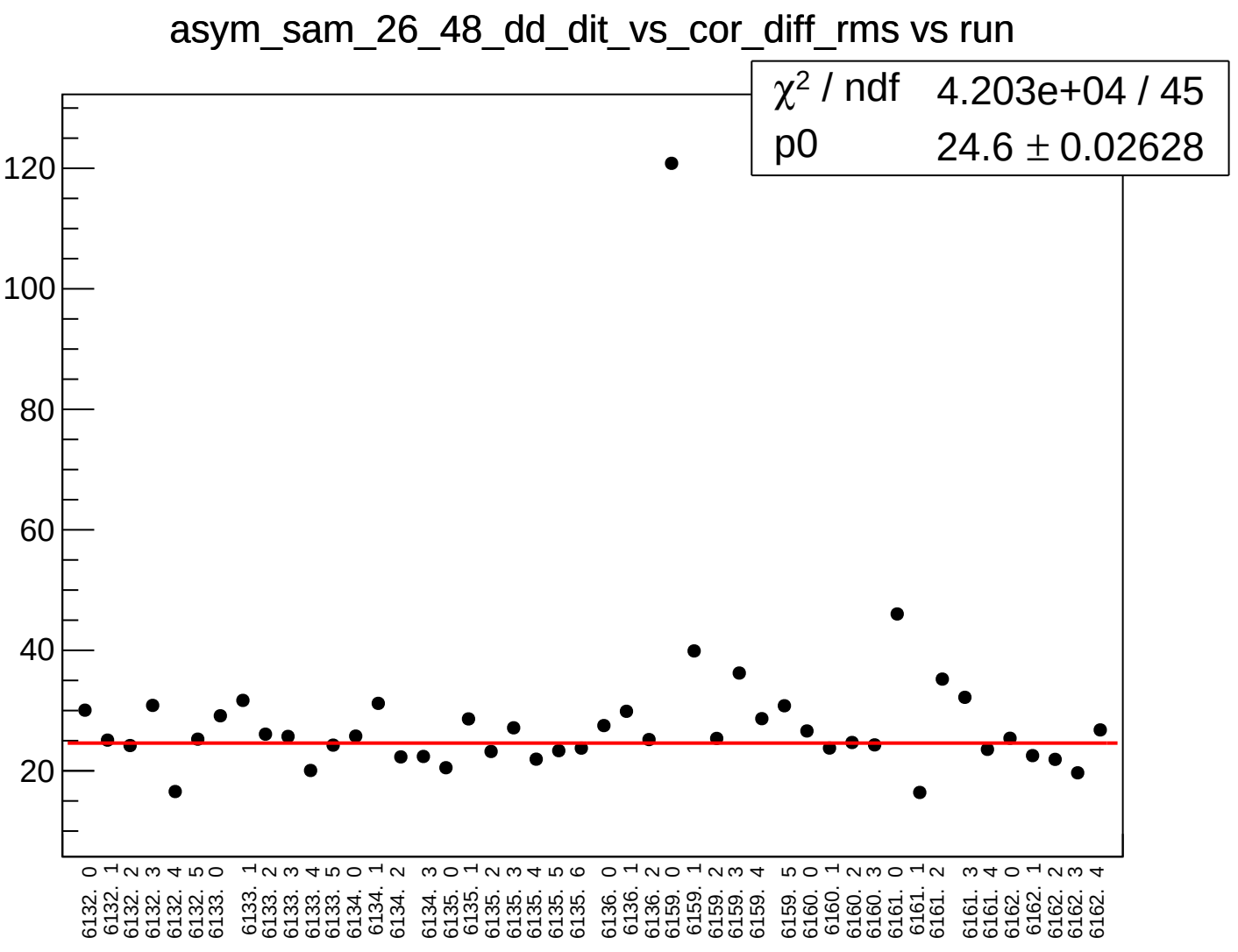

asym_sam_26_48_dd_rms vs run
χ² / ndf 1.831e+04 / 45
p0 834.8 ± 0.88
1200
1100
1000
900
800
700
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

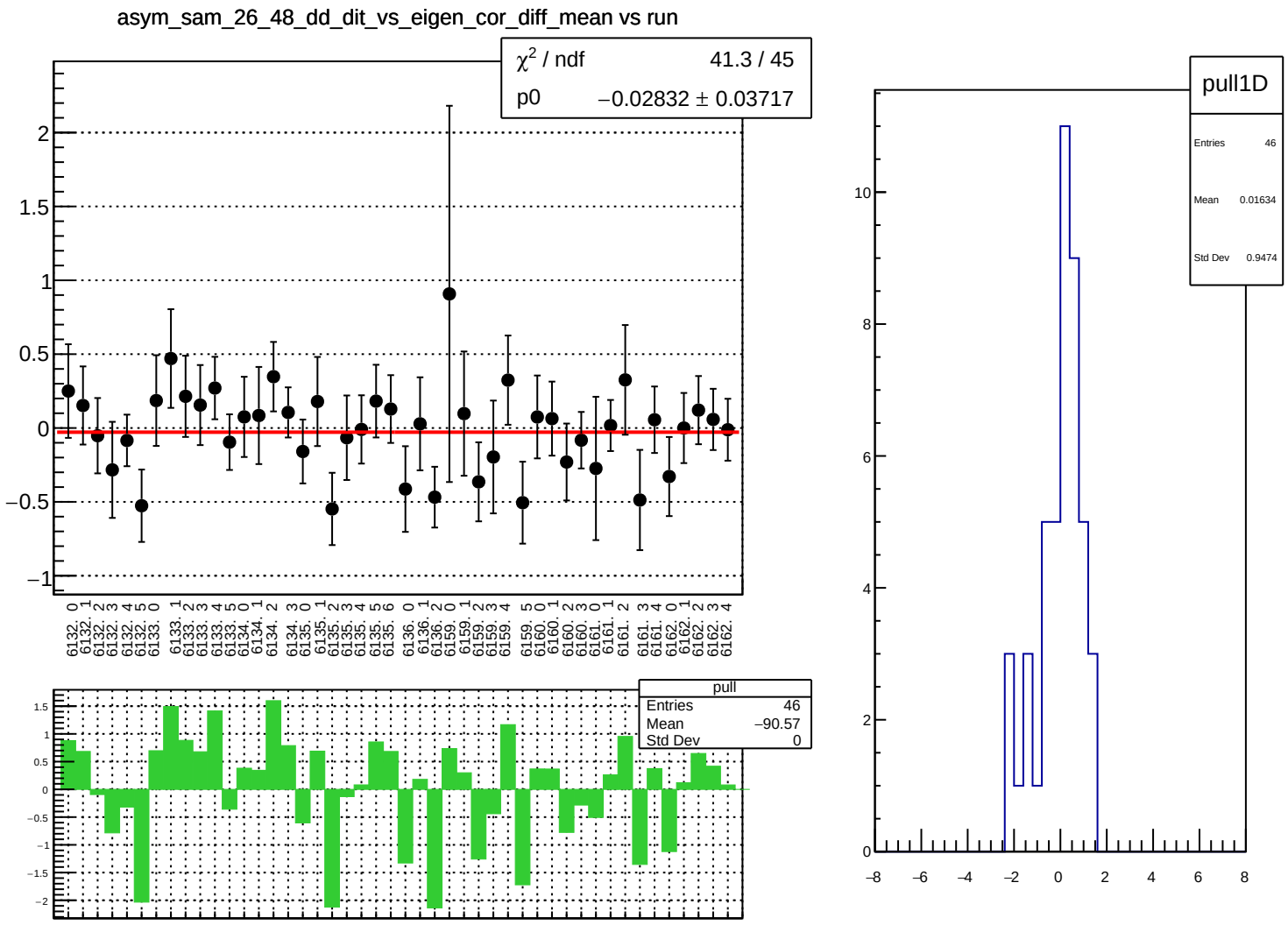

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 39.81 / 45
p0 3.346e−14 ± 5.74e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 96.07
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02802
Std Dev 0.9298
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

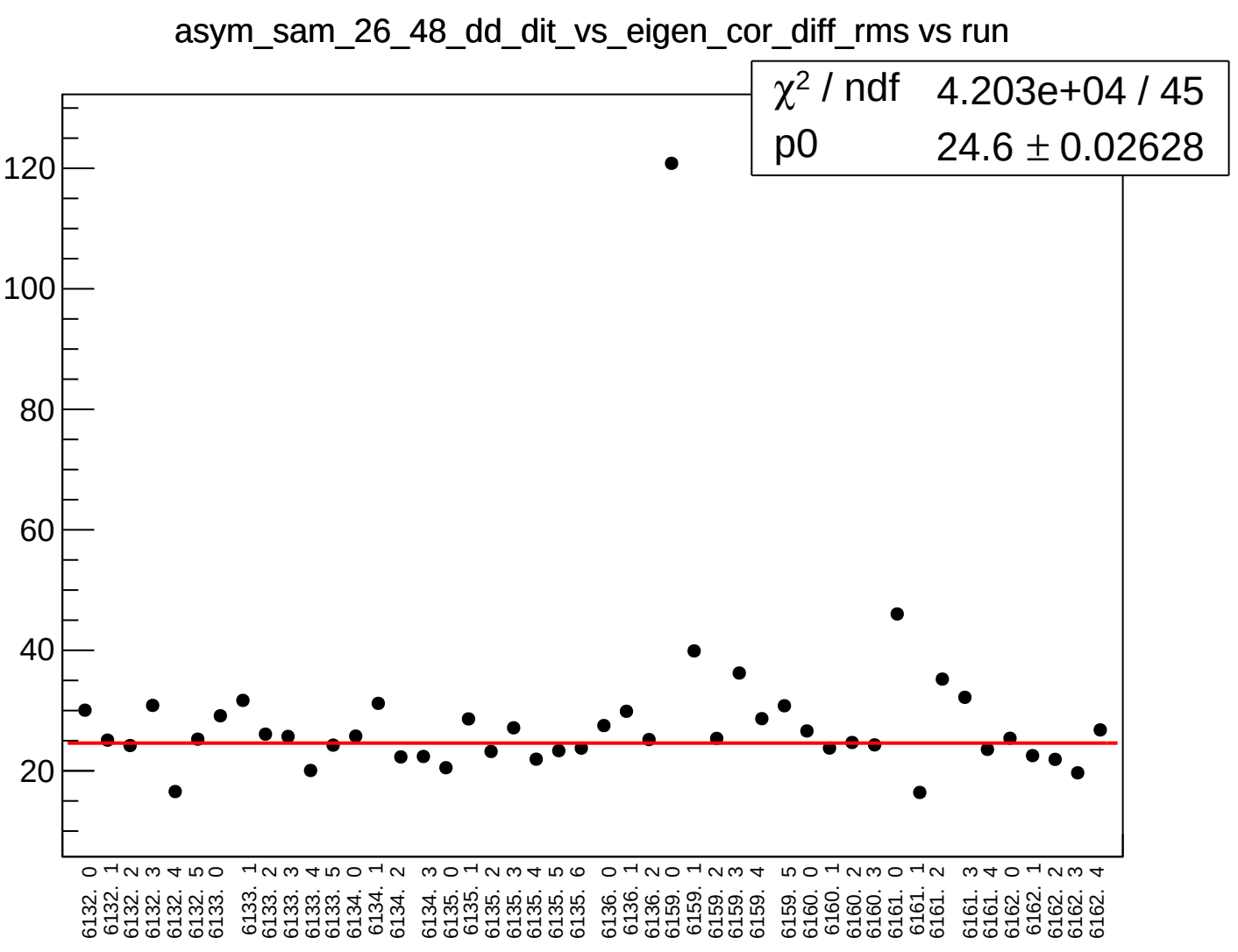

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.186e+05 / 45
p0 2.566e−11 ± 4.059e−14
0.05
0.04
0.03
0.02
0.01
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

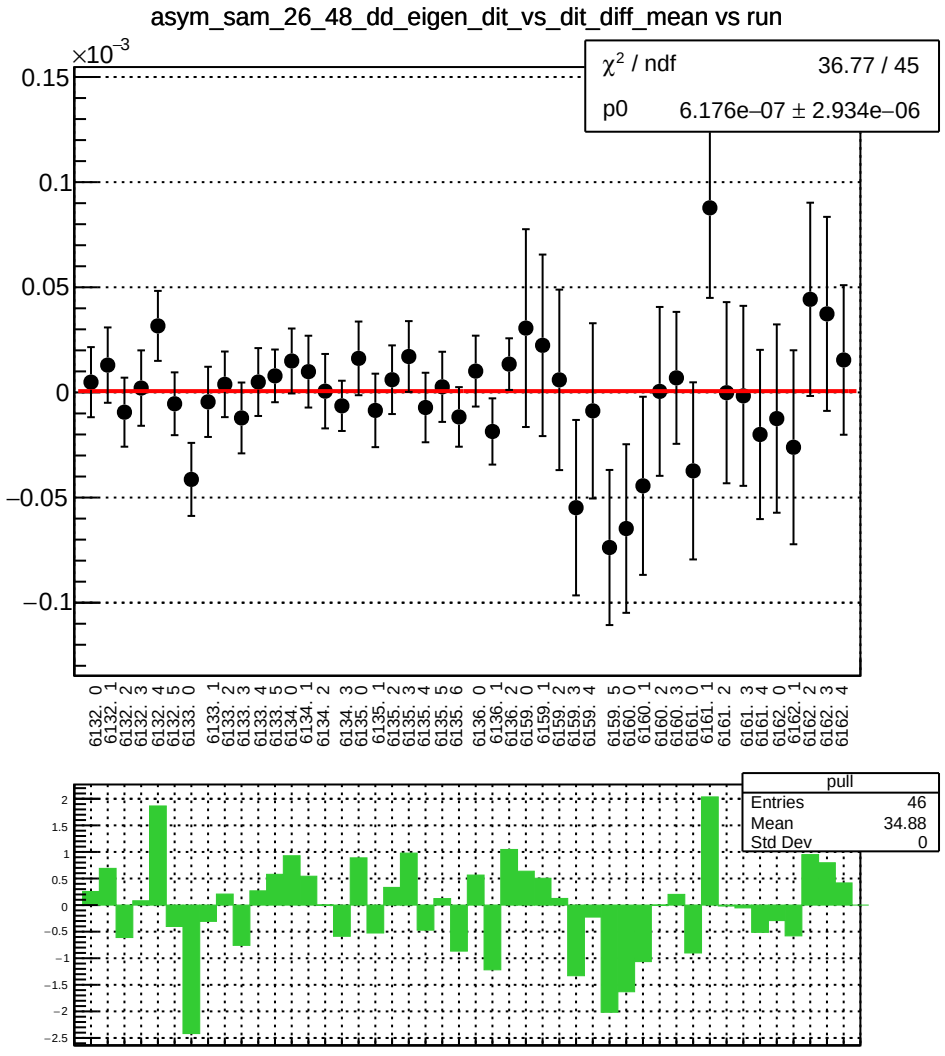

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 41.3 / 45
p0 −0.02832 ± 0.03717
pull
Entries 46
Mean −90.57
Std Dev 0

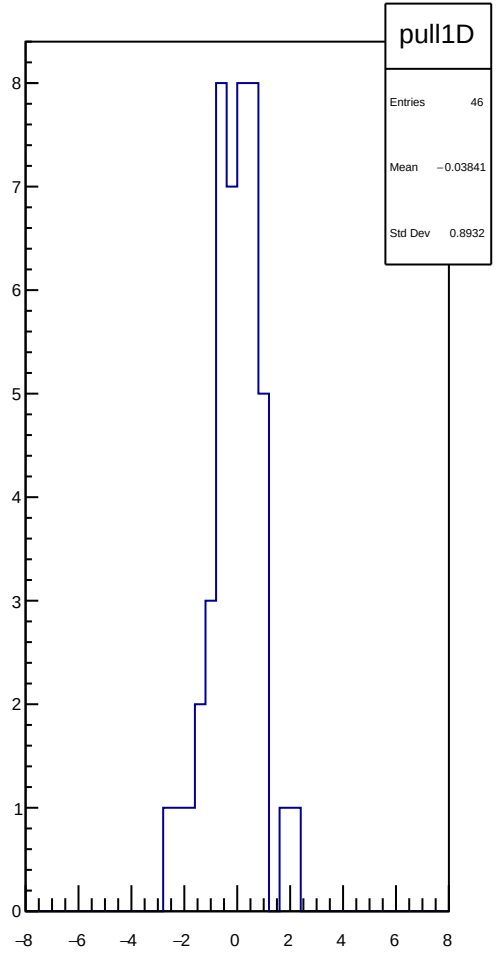

pull1D
Entries 46
Mean 0.01634
Std Dev 0.9474

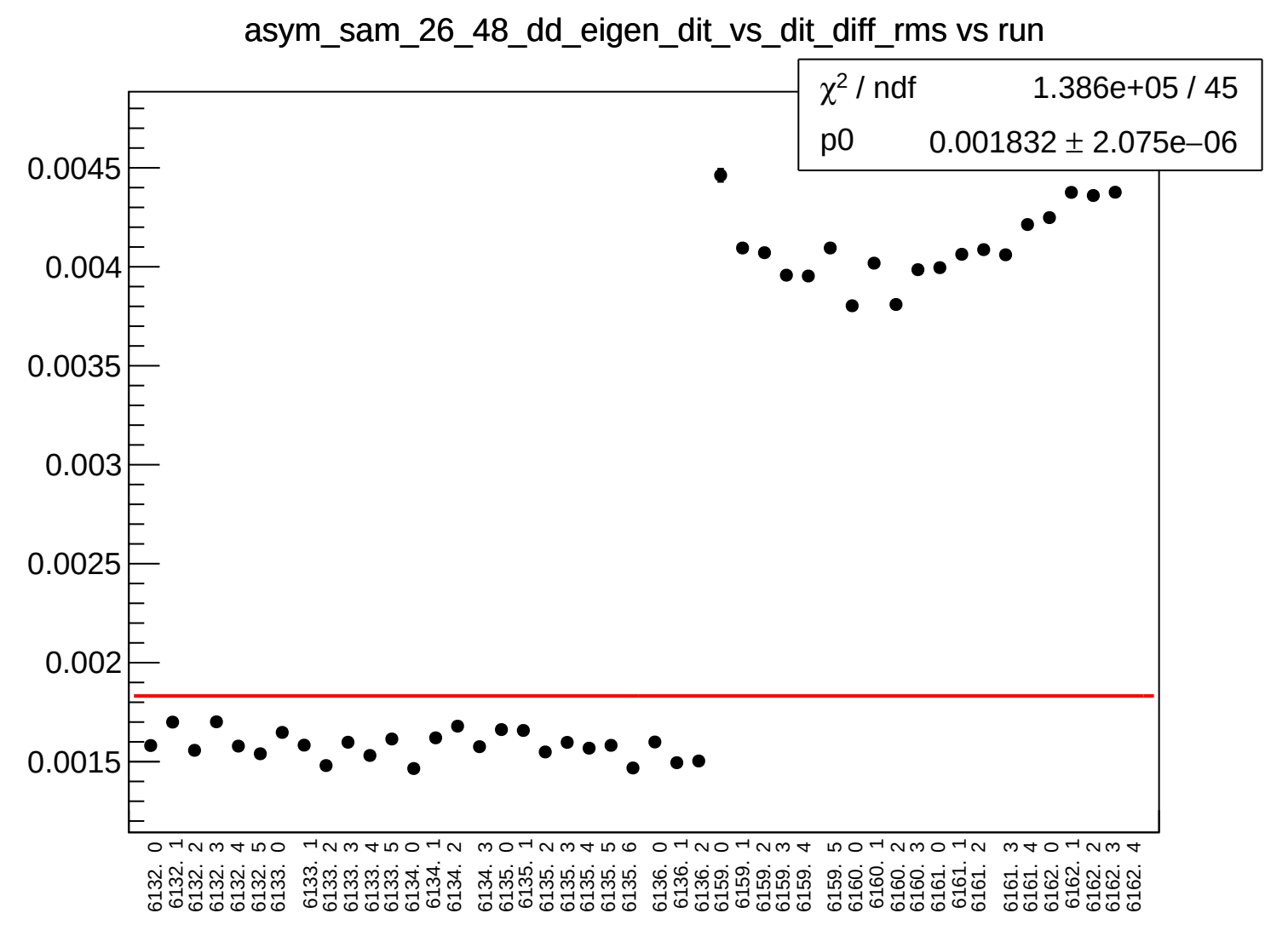

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.203e+04 / 45
p0 24.6 ± 0.02628
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

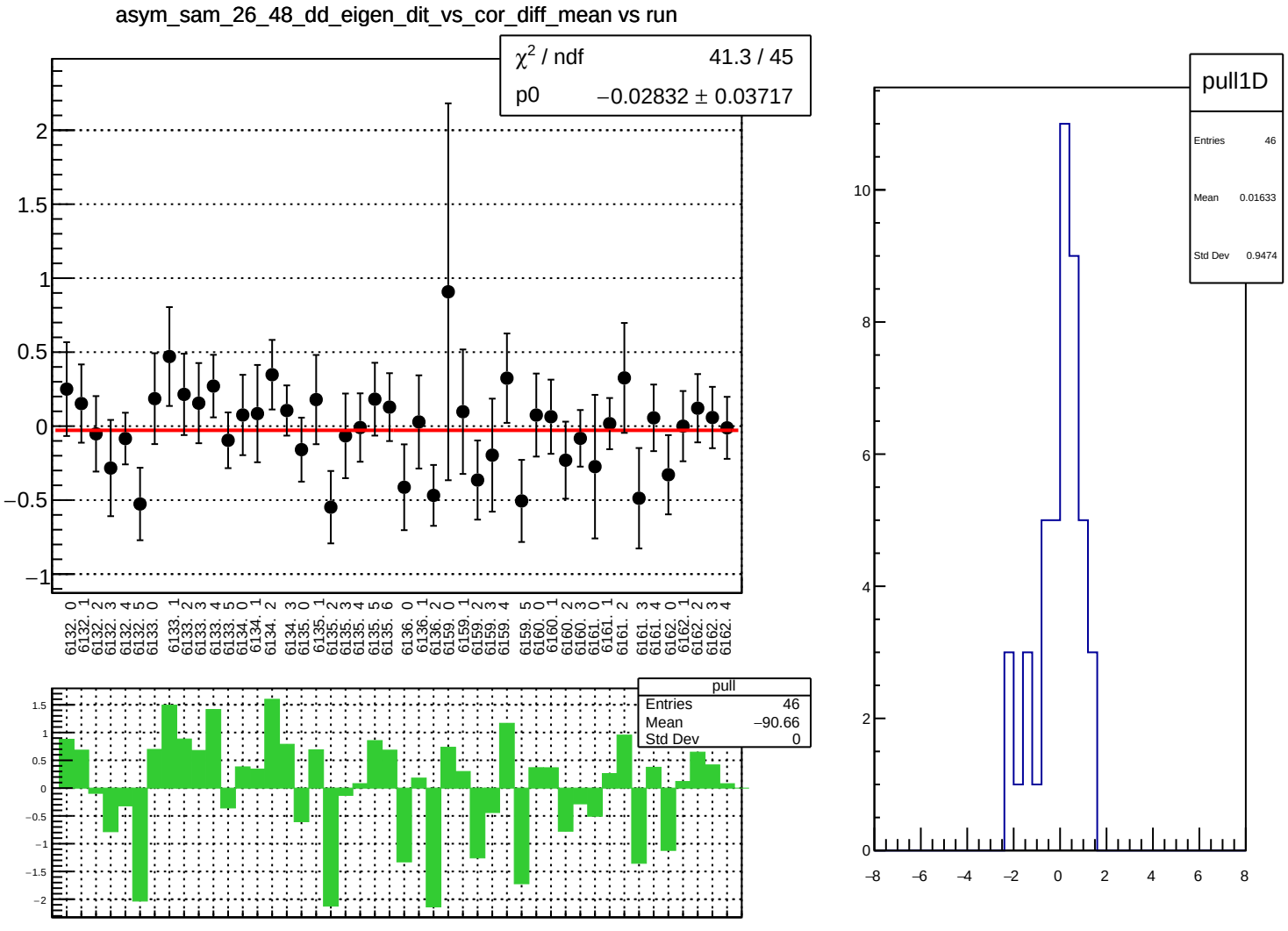

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.3 / 45
p0 −0.02832 ± 0.03717
pull
Entries 46
Mean −90.57
Std Dev 0
pull1D
Entries 46
Mean 0.01634
Std Dev 0.9474

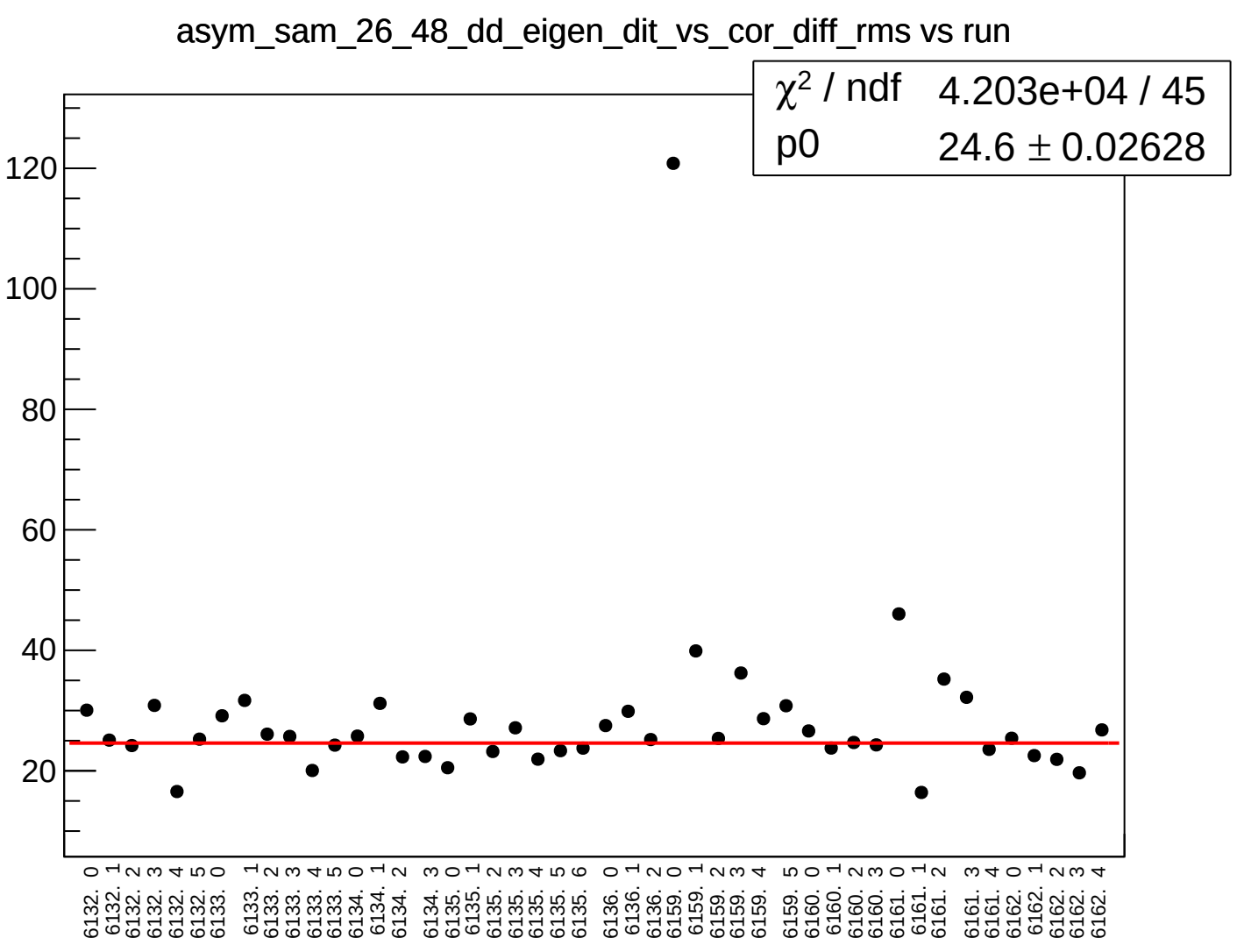

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.203e+04 / 45
p0 24.6 ± 0.02628
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 36.77 / 45
p0 6.176e−07 ± 2.934e−06
pull
Entries 46
Mean 34.88
Std Dev 0


pull1D
Entries 46
Mean −0.03841
Std Dev 0.8932


asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.386e+05 / 45
p0 0.001832 ± 2.075e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 41.3 / 45
p0 −0.02832 ± 0.03717
pull
Entries 46
Mean −90.66
Std Dev 0
pull1D
Entries 46
Mean 0.01633
Std Dev 0.9474


asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.203e+04 / 45
p0 24.6 ± 0.02628
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
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6159. 5
6160. 0
6160. 1
6160. 2
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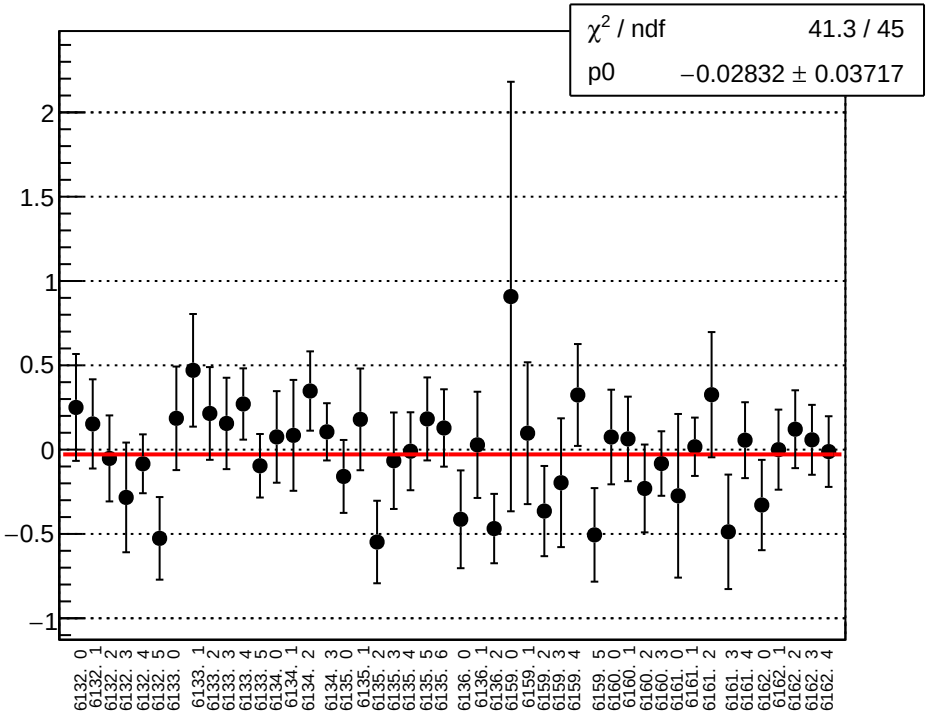
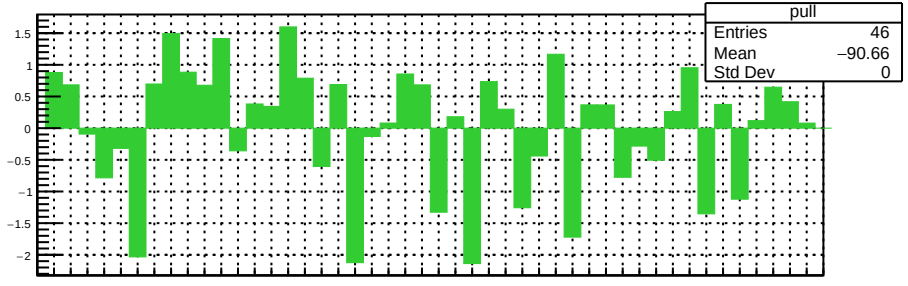
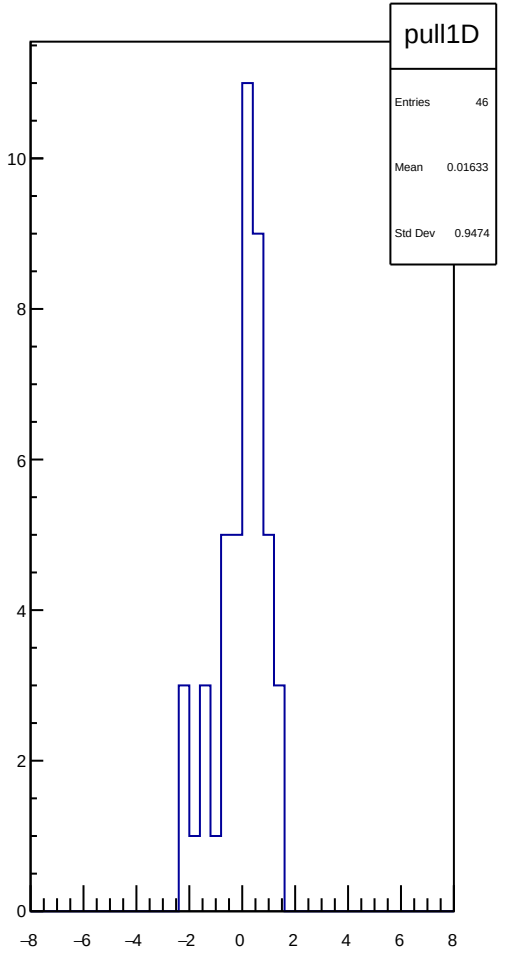
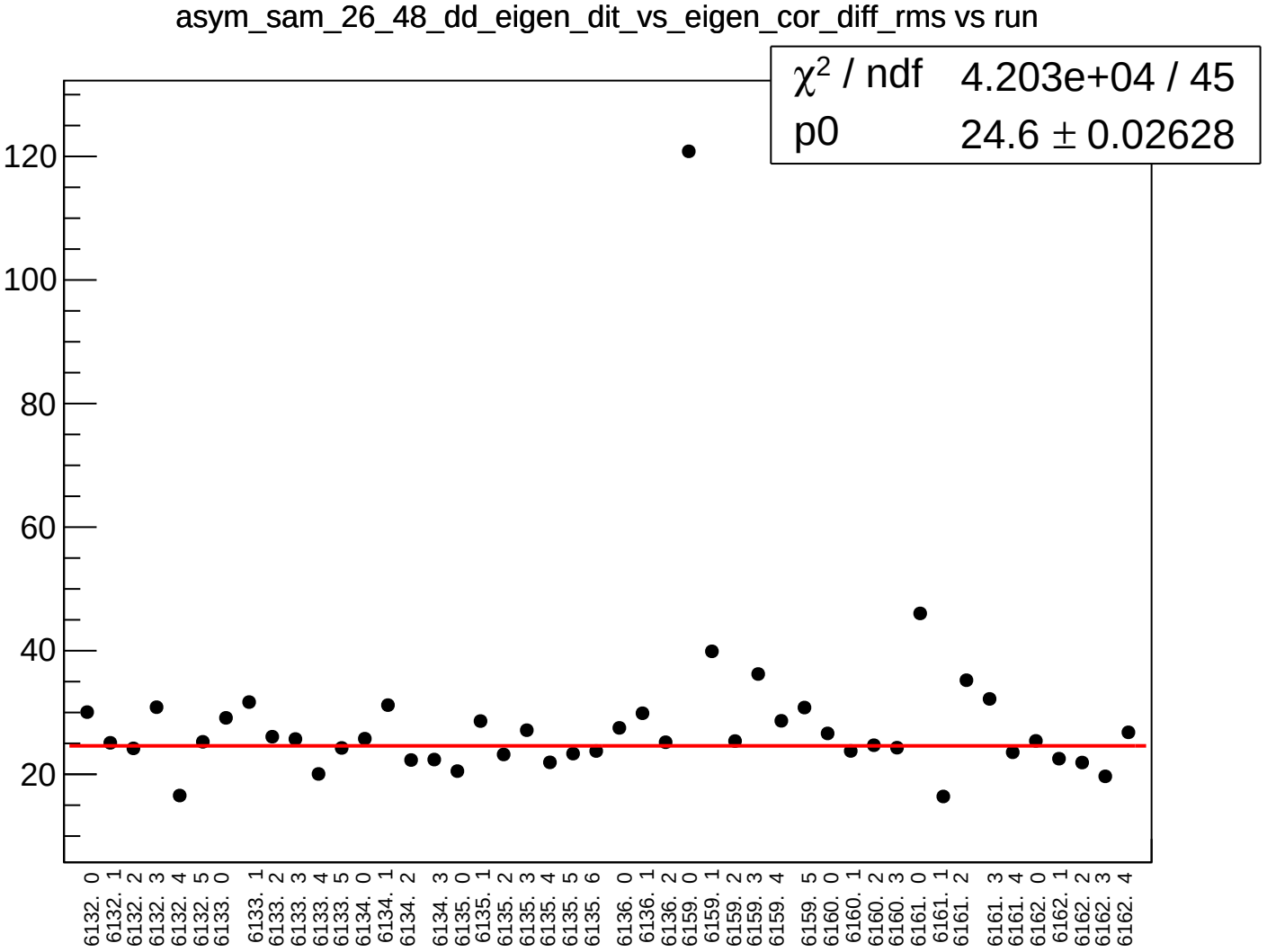
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

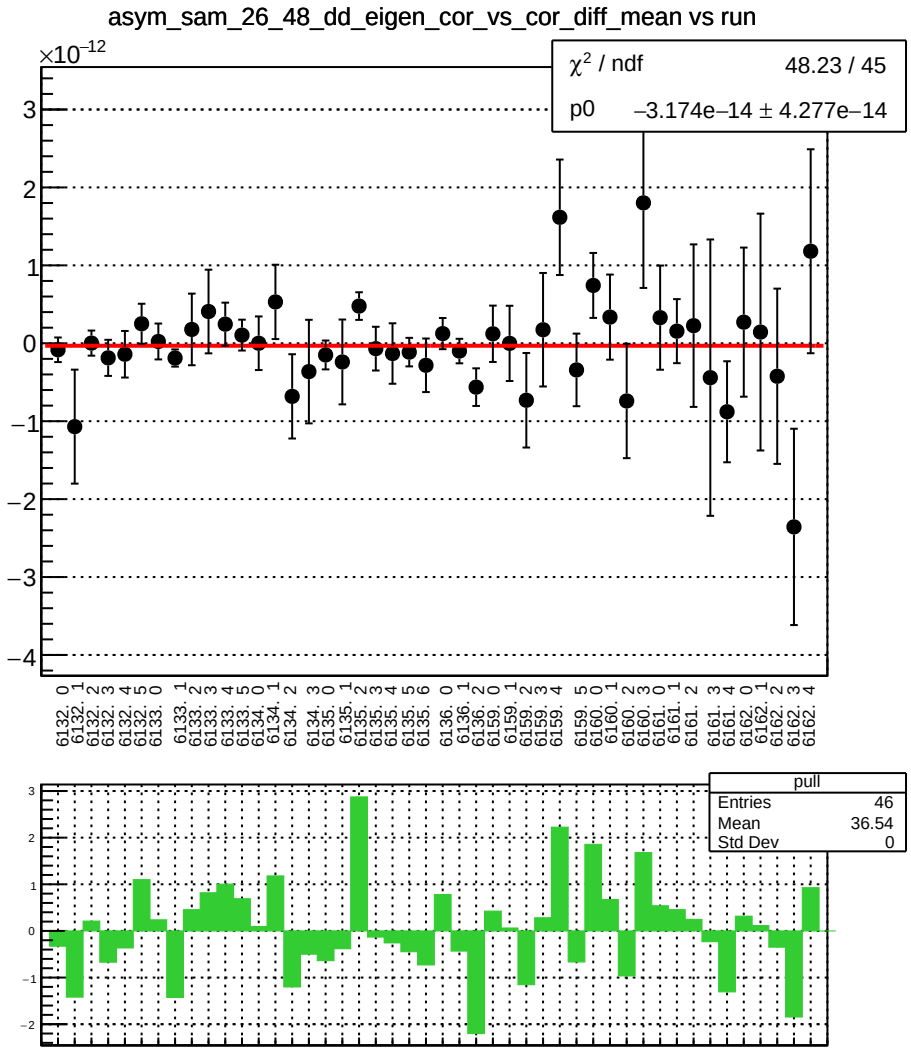
asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

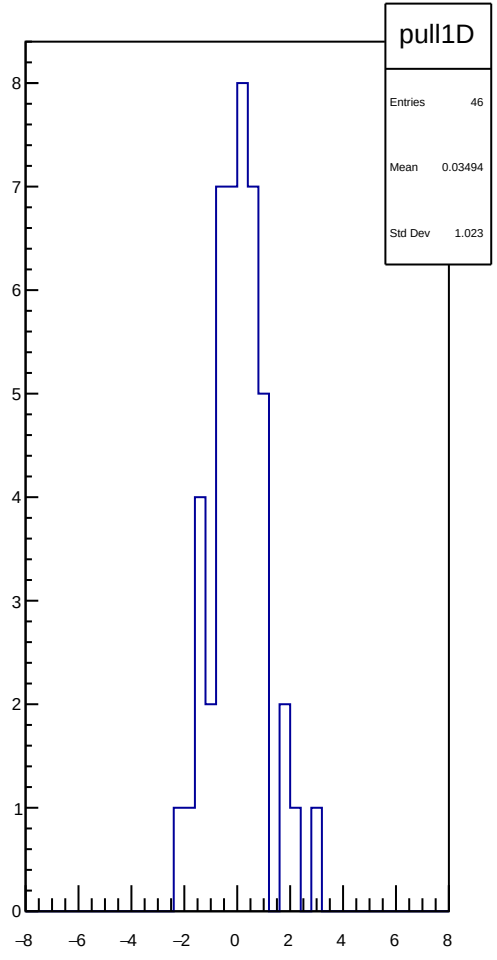


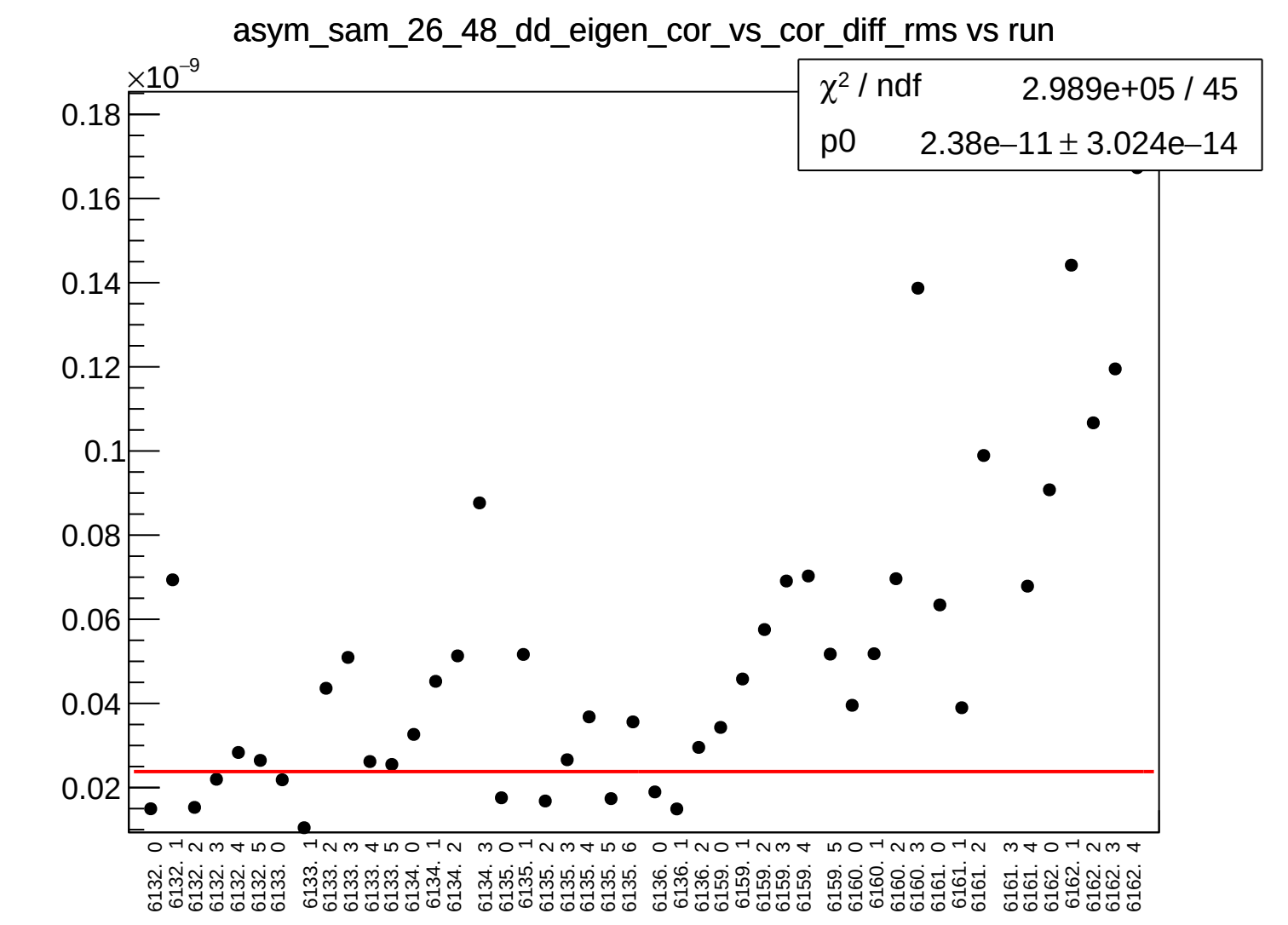


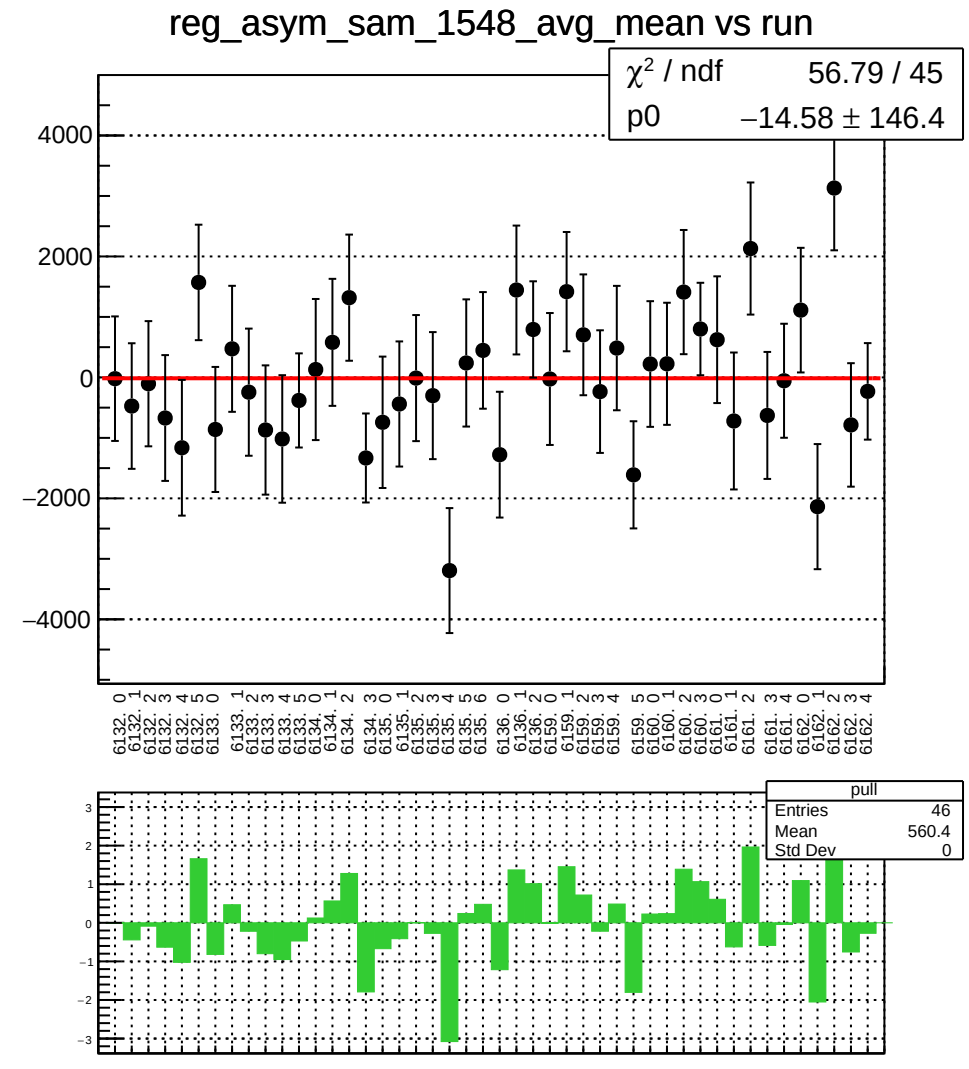


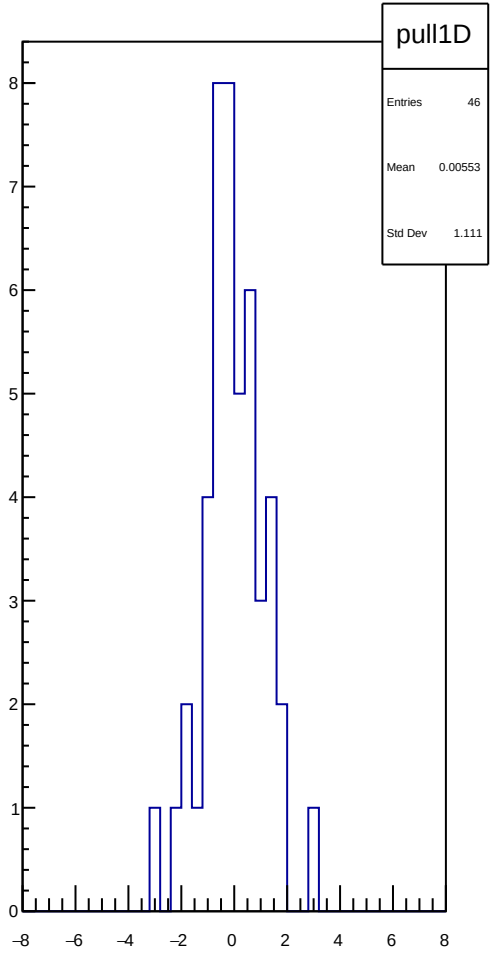

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.203e+04 / 45
p0 24.6 ± 0.02628
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

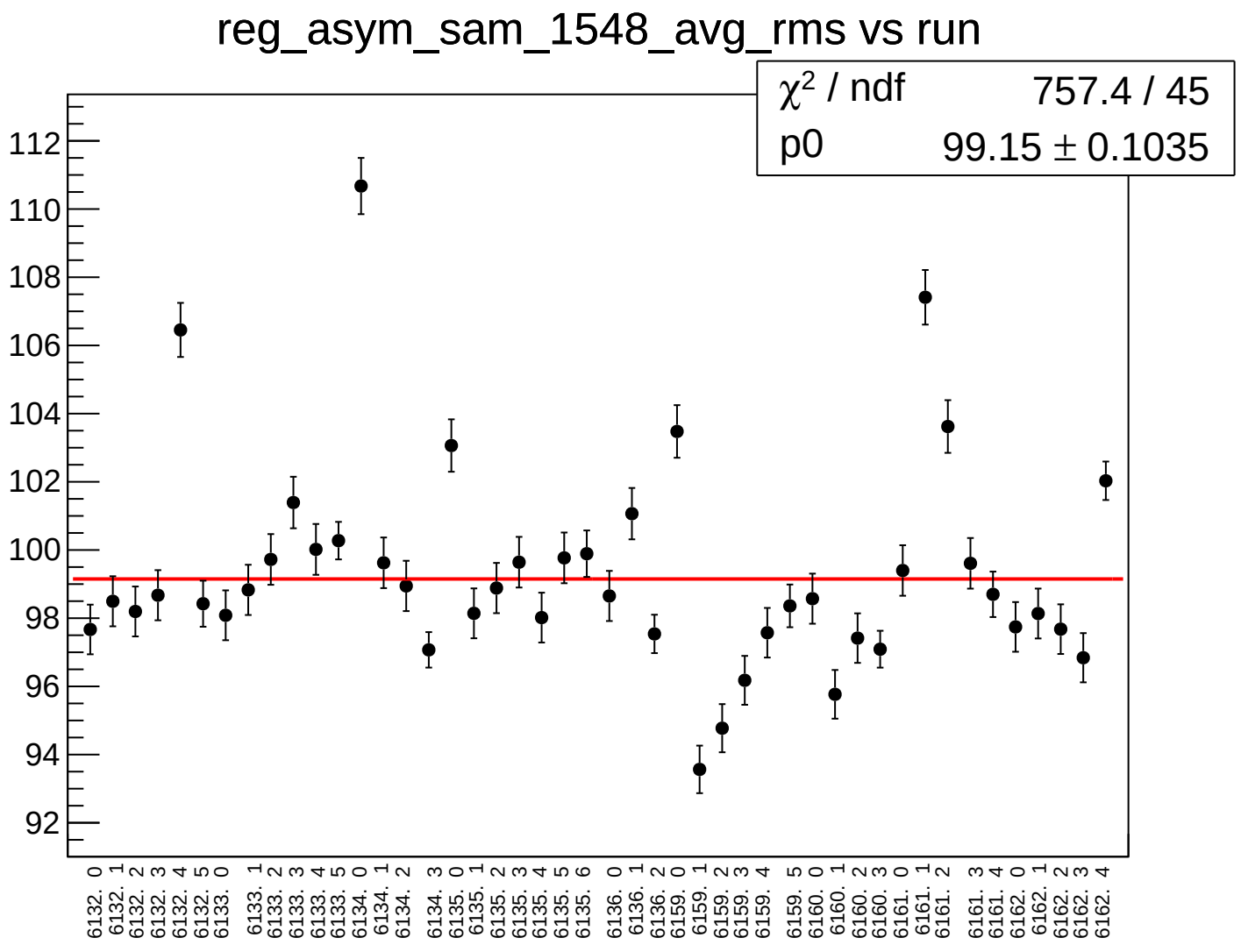

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 48.23 / 45
p0 −3.174e−14 ± 4.277e−14
pull
Entries 46
Mean 36.54
Std Dev 0

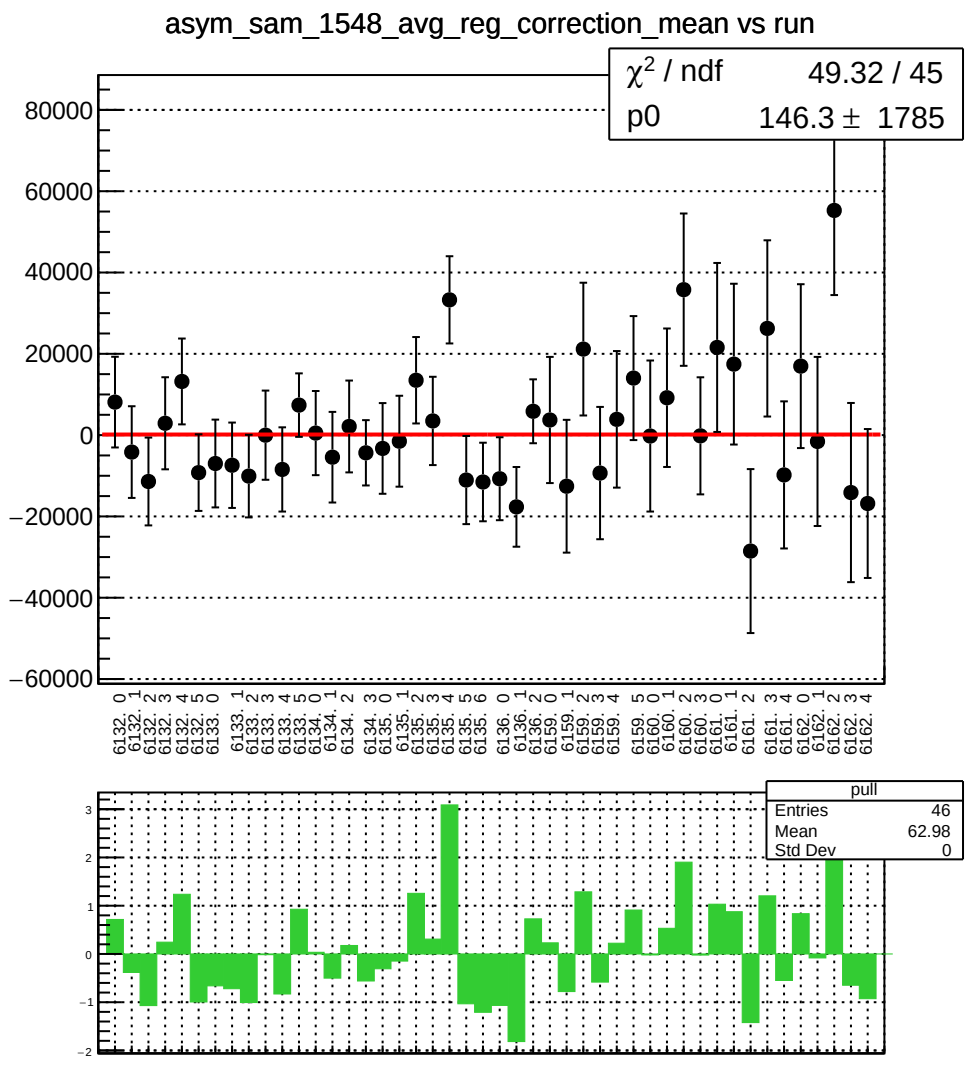

pull1D
Entries 46
Mean 0.03494
Std Dev 1.023

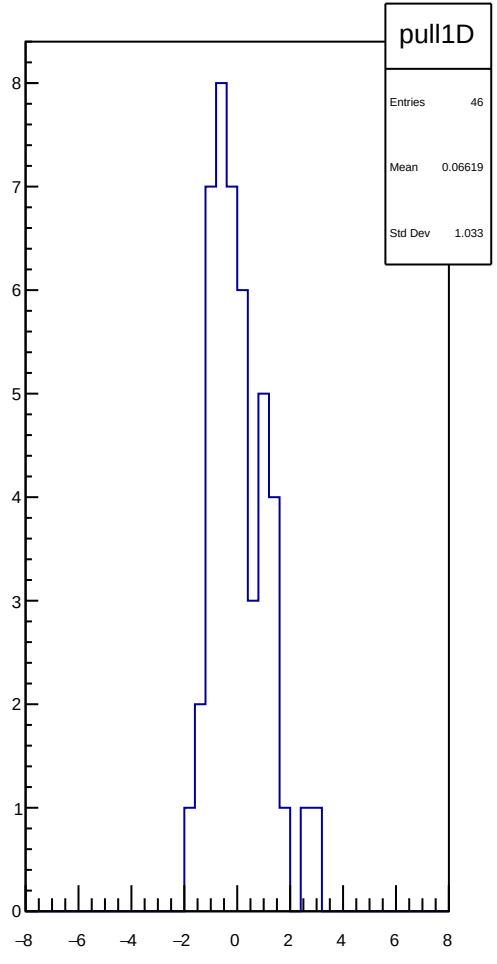

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.989e+05 / 45
p0 2.38e−11 ± 3.024e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

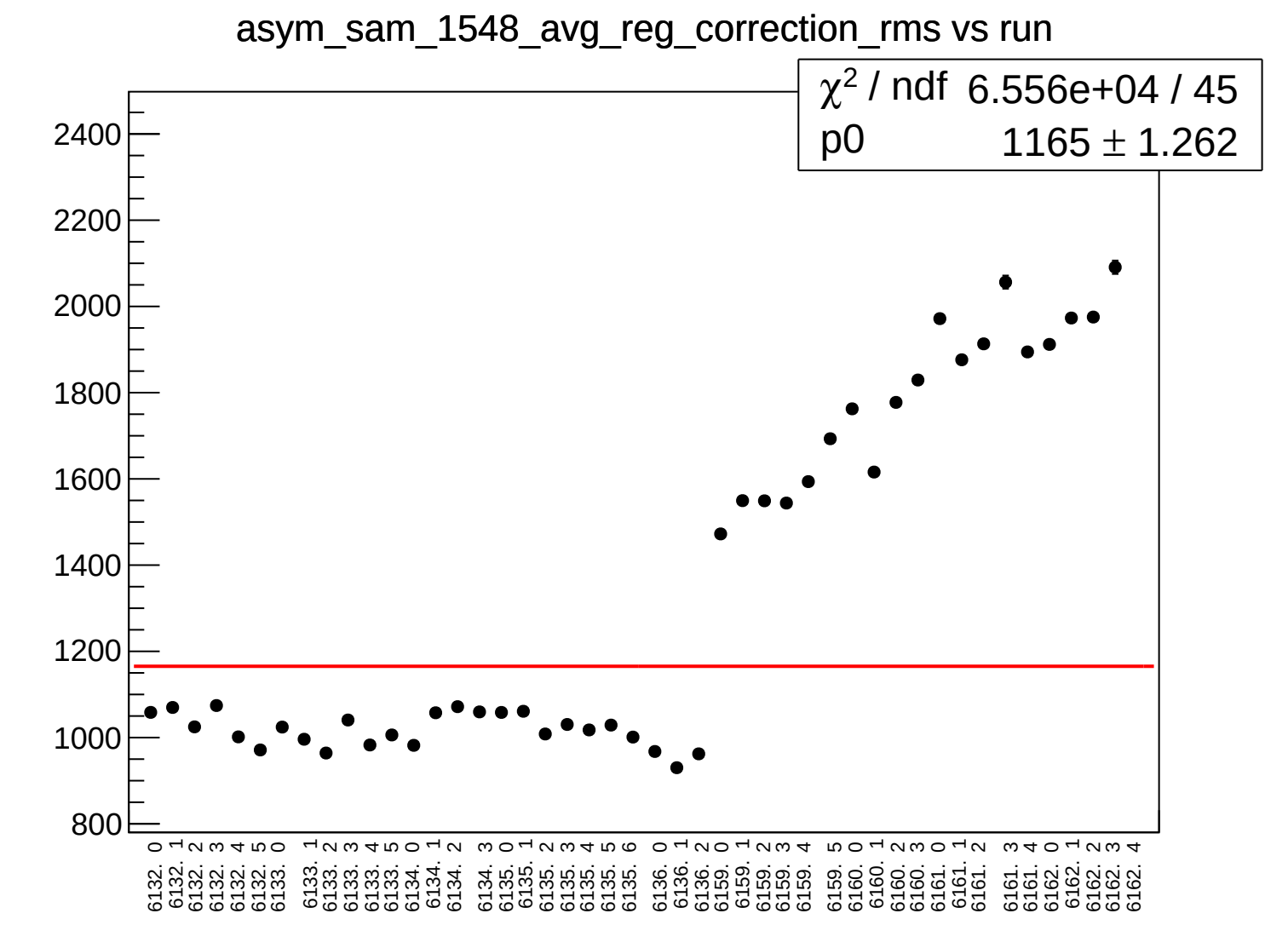

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 56.79 / 45
p0 −14.58 ± 146.4
4000
2000
0
−2000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 560.4
Std Dev 0
3
2
1
0
−1
−2
−3

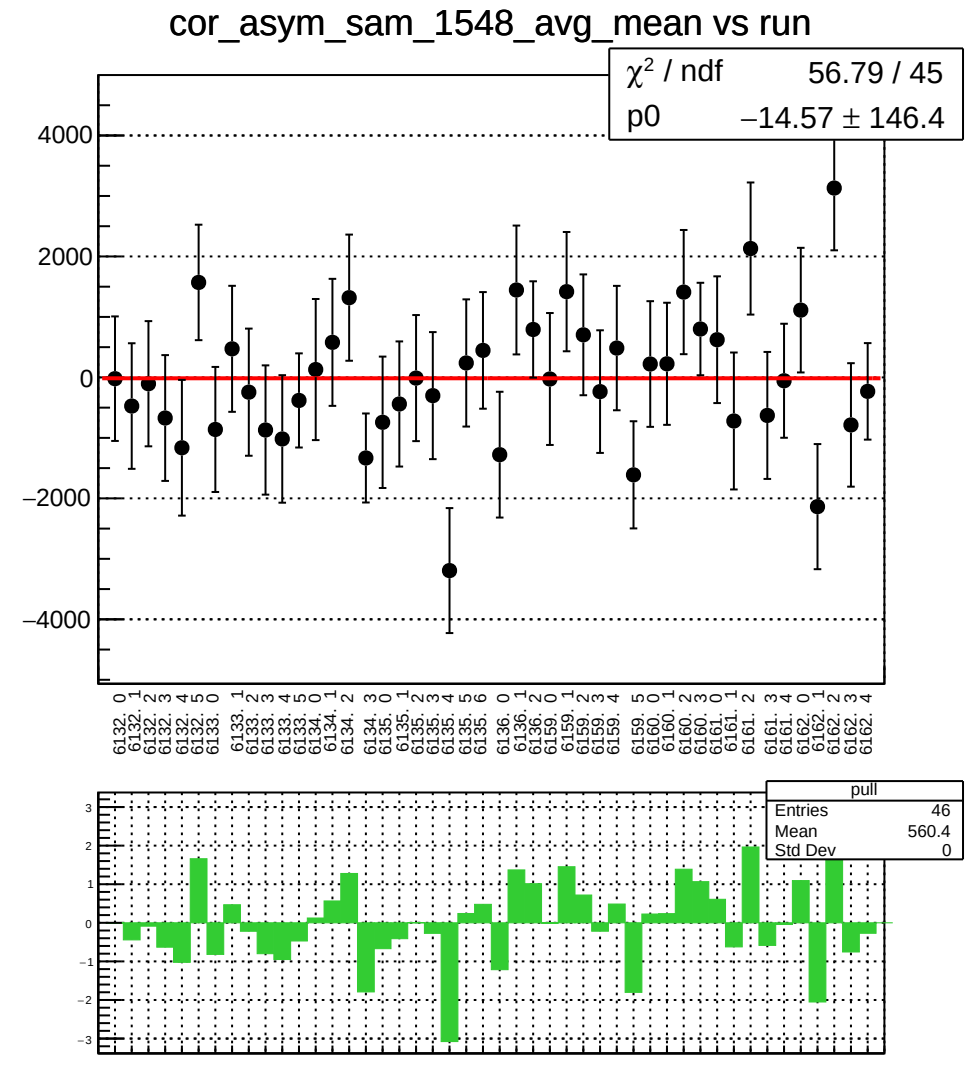

pull1D
Entries 46
Mean 0.00553
Std Dev 1.111
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

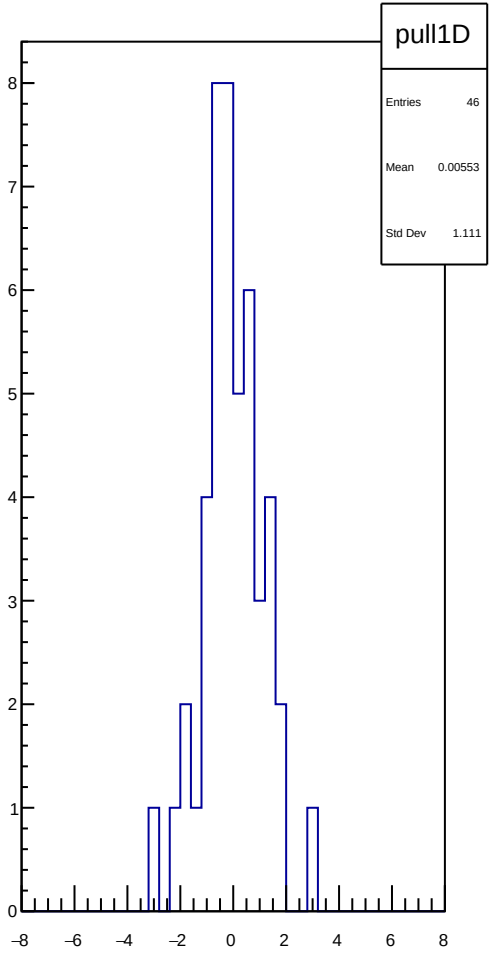

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 757.4 / 45
p0 99.15 ± 0.1035
112
110
108
106
104
102
100
98
96
94
92
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

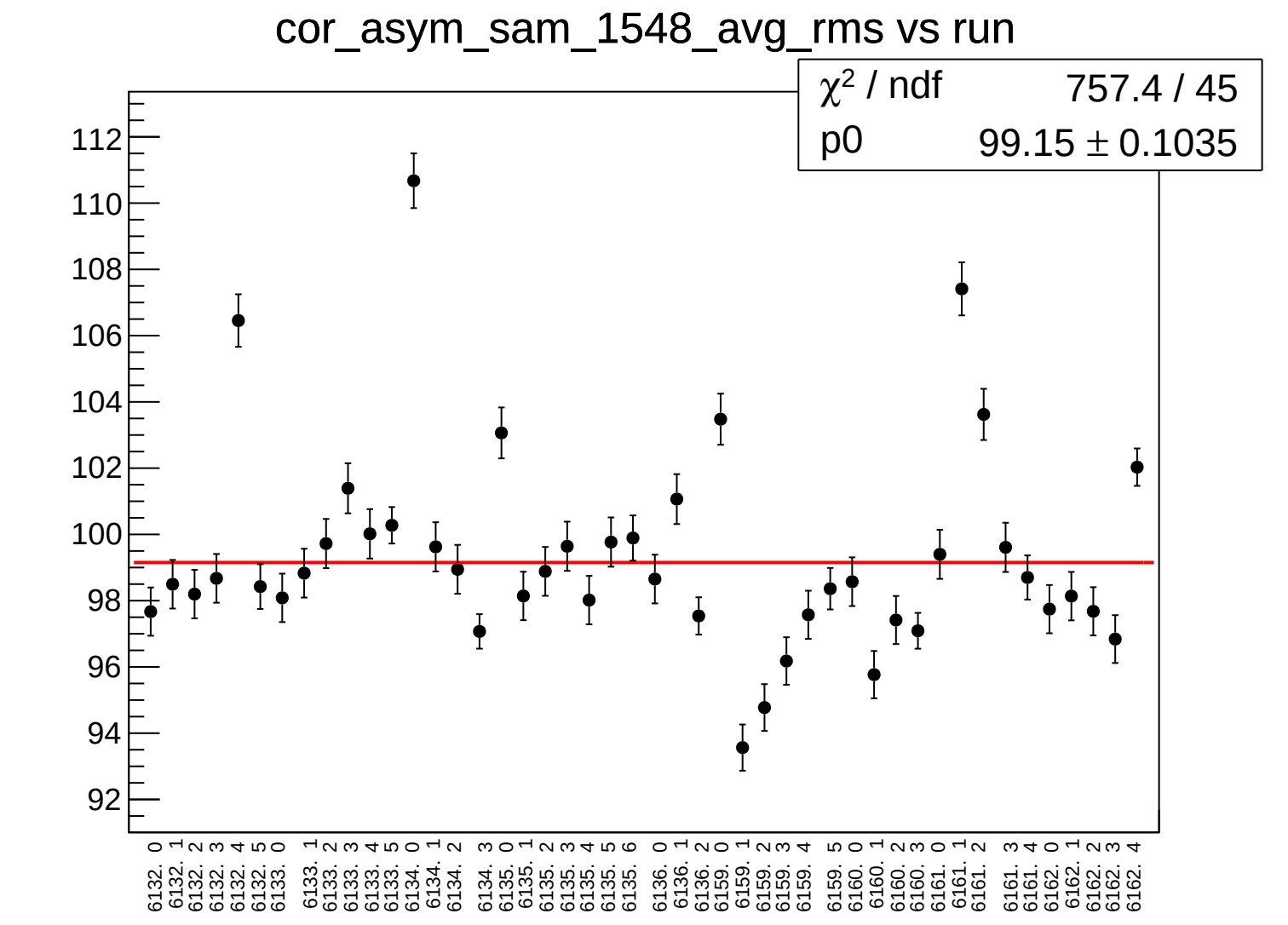

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 49.32 / 45
p0 146.3 ± 1785
pull
Entries 46
Mean 62.98
Std Dev 0

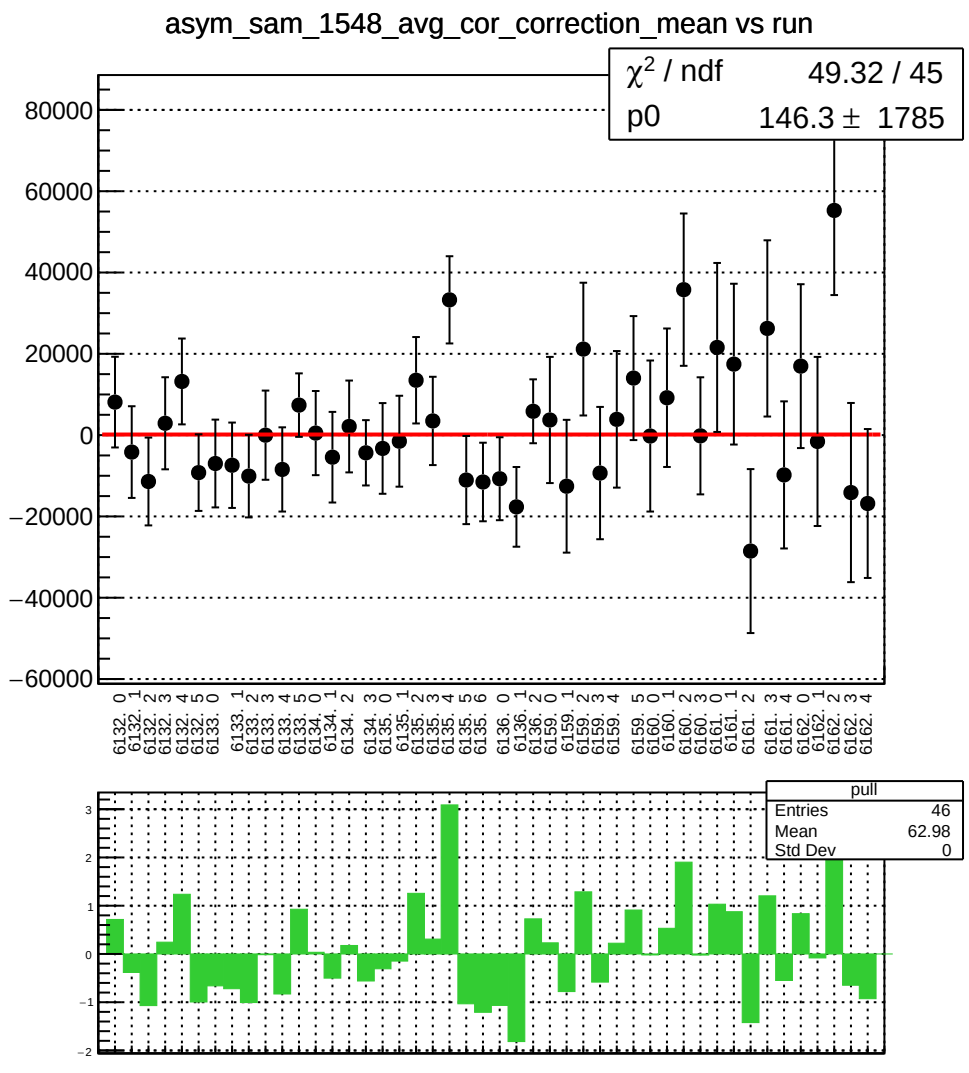

pull1D
Entries 46
Mean 0.06619
Std Dev 1.033

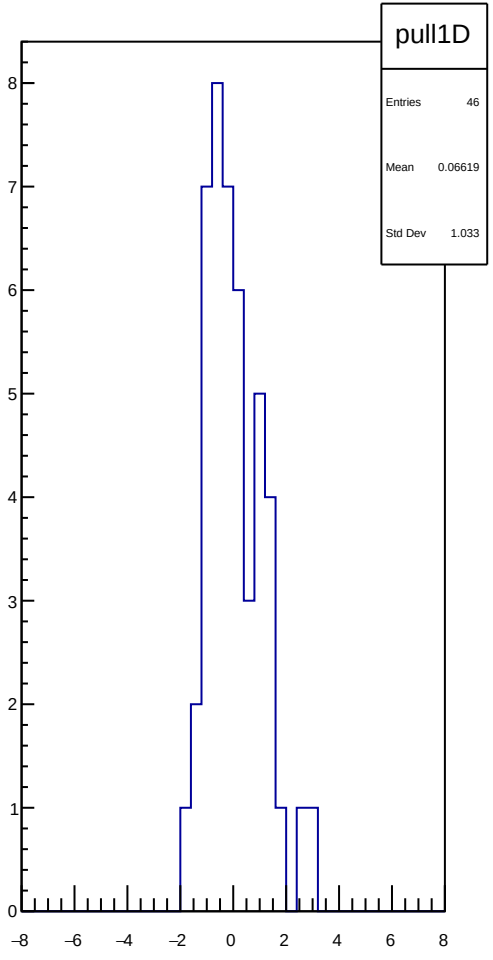

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 6.556e+04 / 45
p0 1165 ± 1.262
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

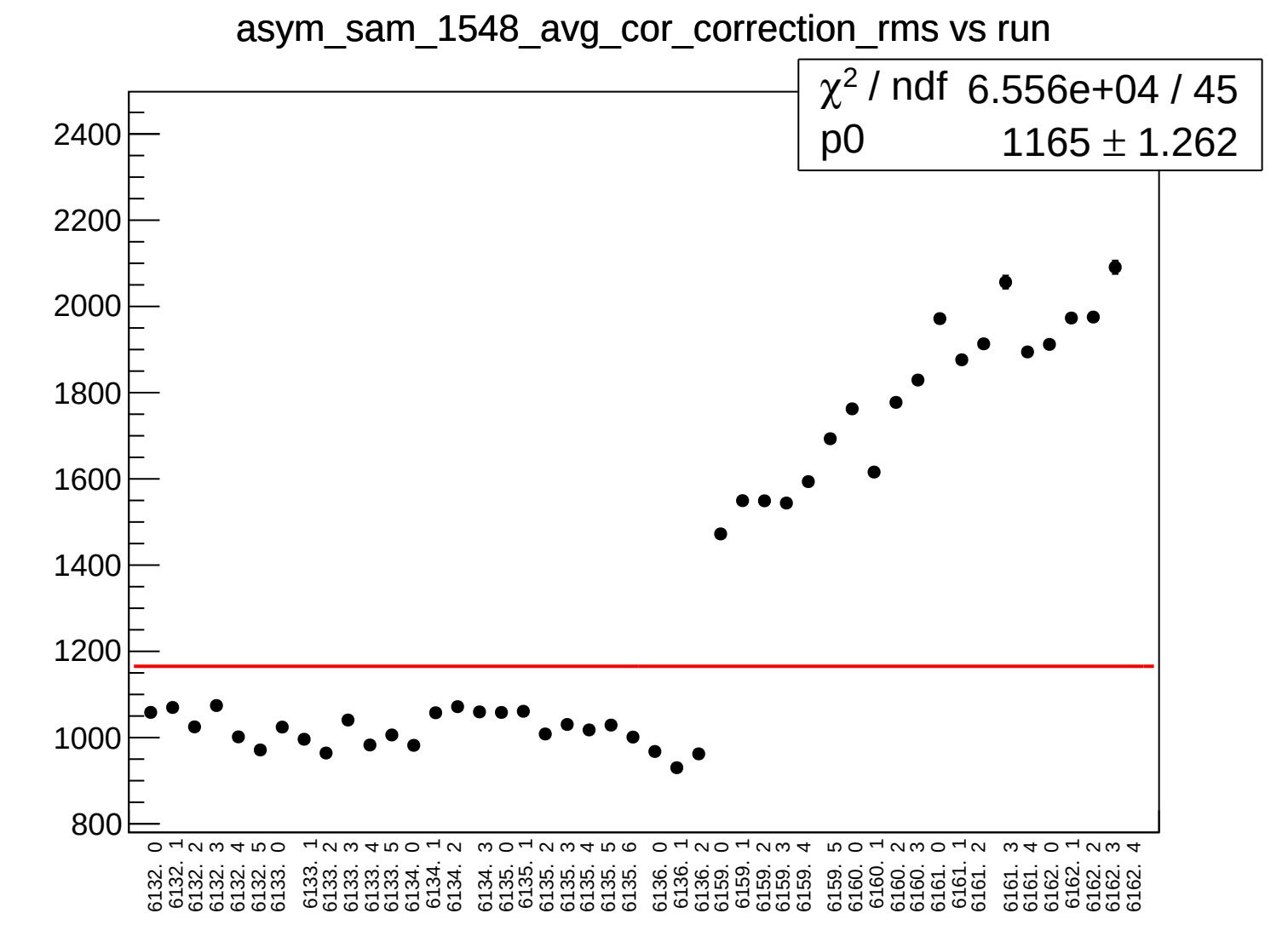

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 56.79 / 45
p0 −14.57 ± 146.4
4000
2000
0
−2000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 560.4
Std Dev 0
3
2
1
0
−1
−2
−3

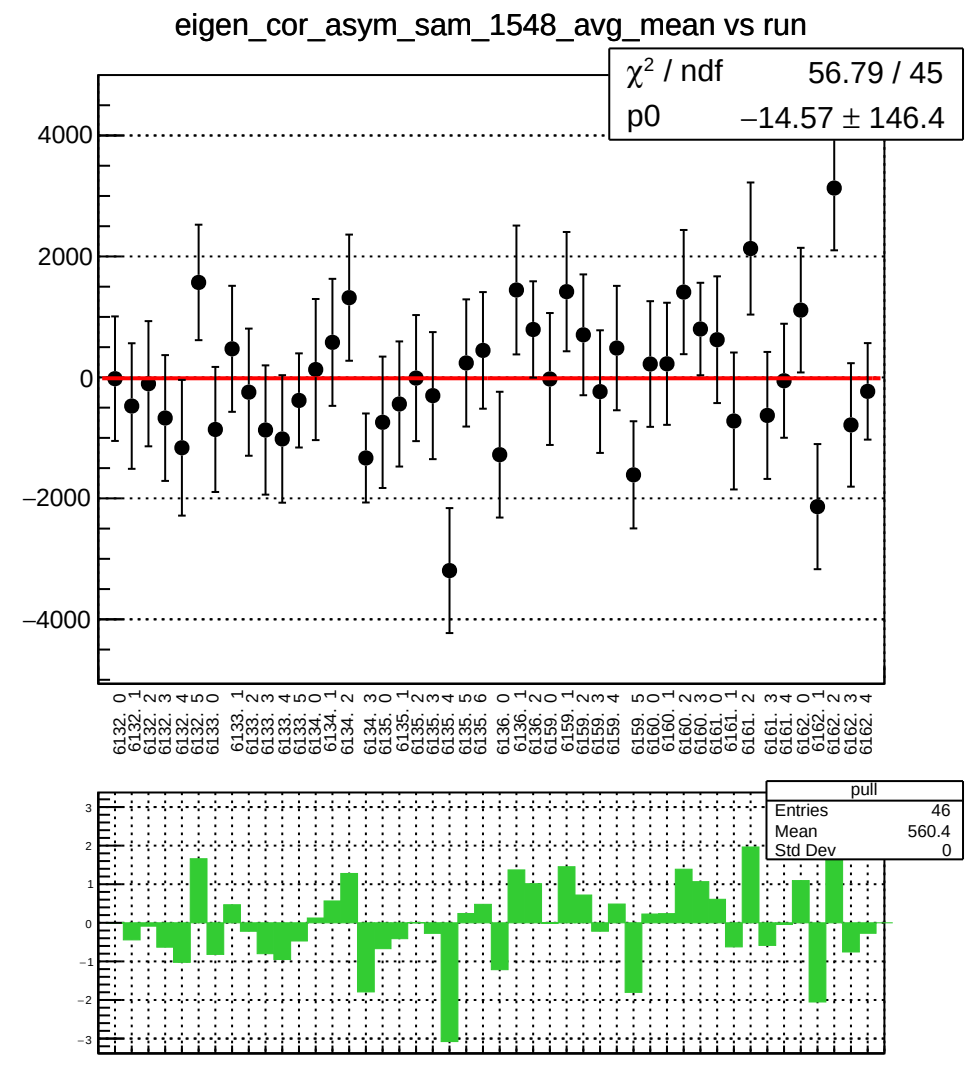

pull1D
Entries 46
Mean 0.00553
Std Dev 1.111
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

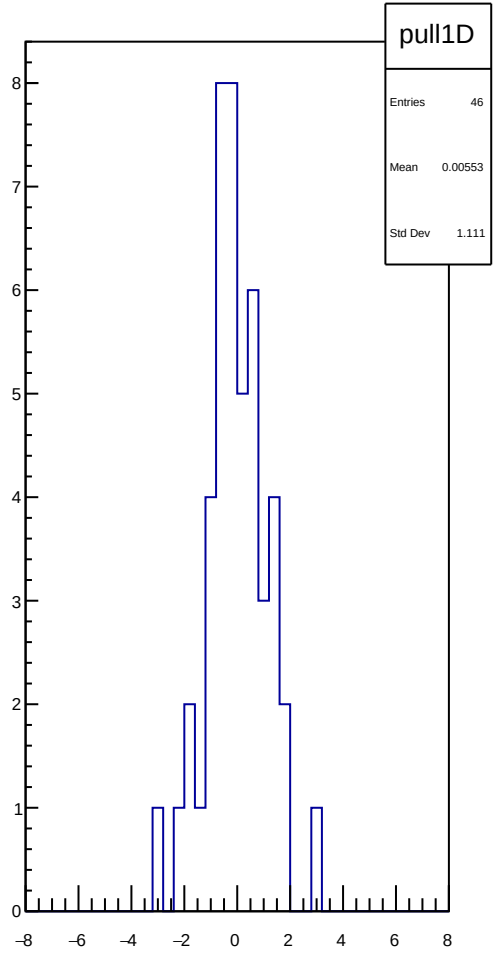

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 757.4 / 45
p0 99.15 ± 0.1035
112
110
108
106
104
102
100
98
96
94
92
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

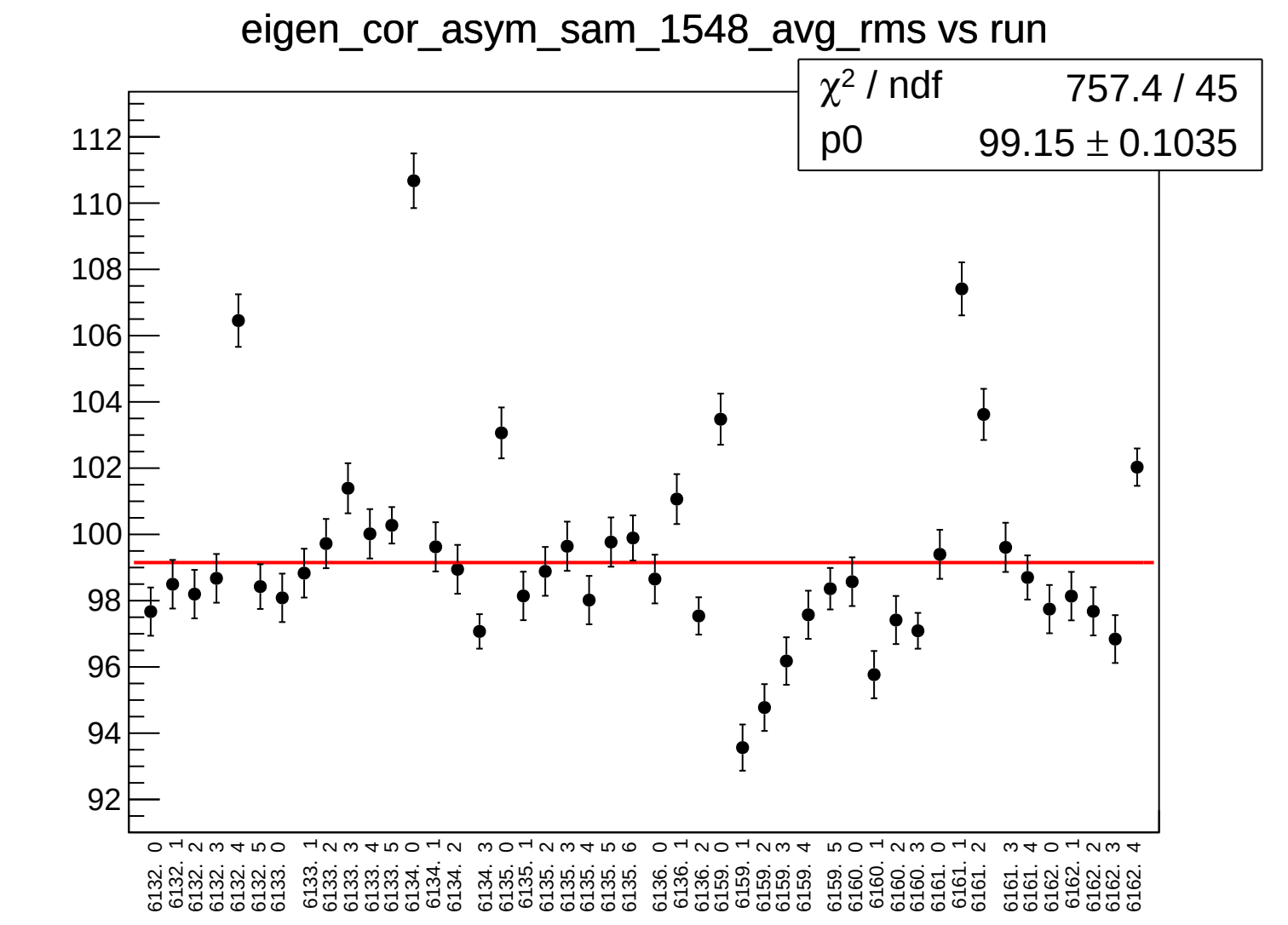

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 49.32 / 45
p0 146.3 ± 1785
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 62.98
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.06619
Std Dev 1.033
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 6.556e+04 / 45
p0 1165 ± 1.262
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 56.79 / 45
p0 −14.57 ± 146.4
4000
2000
0
−2000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 560.4
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean 0.00553
Std Dev 1.111
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 757.4 / 45
p0 99.15 ± 0.1035
112
110
108
106
104
102
100
98
96
94
92
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
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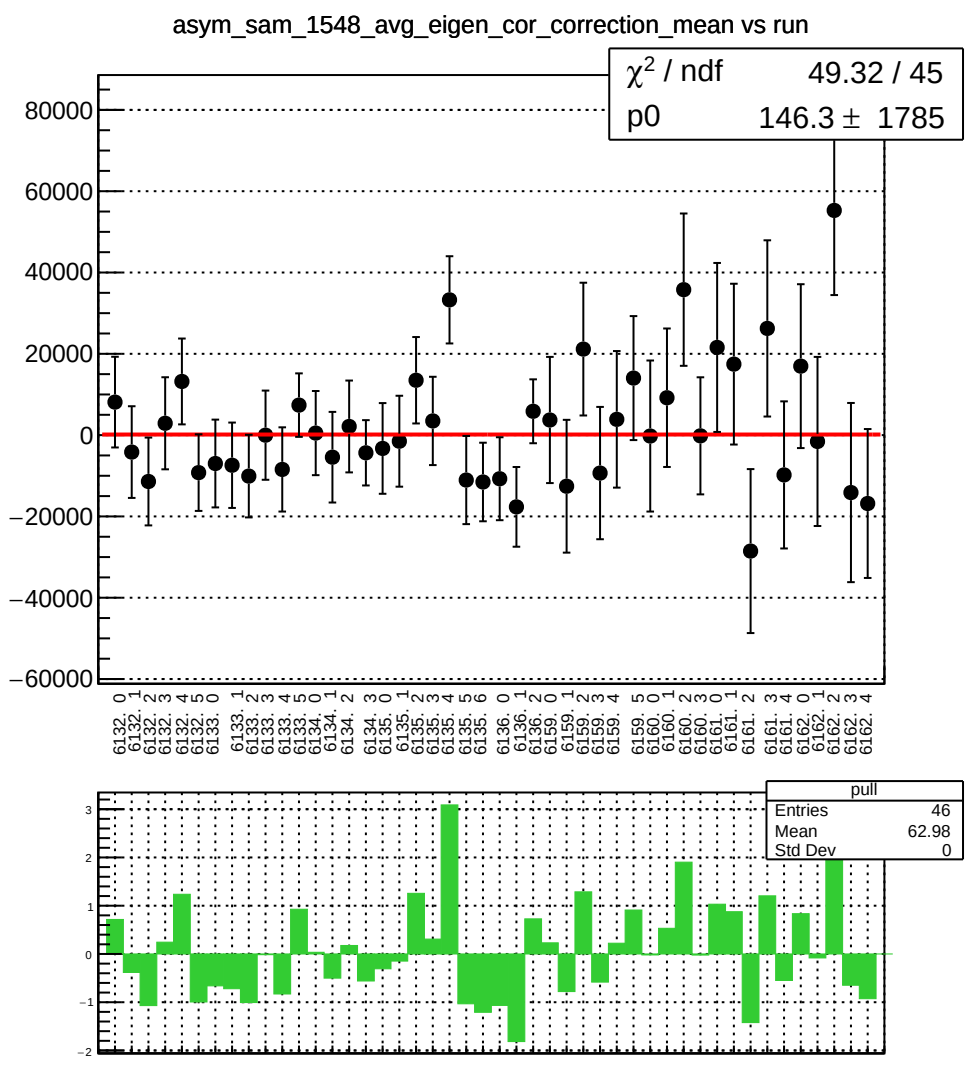
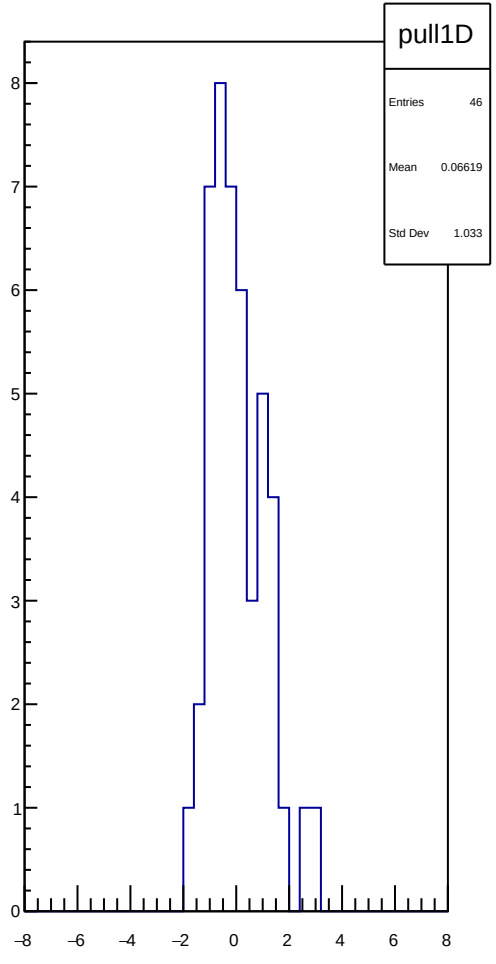
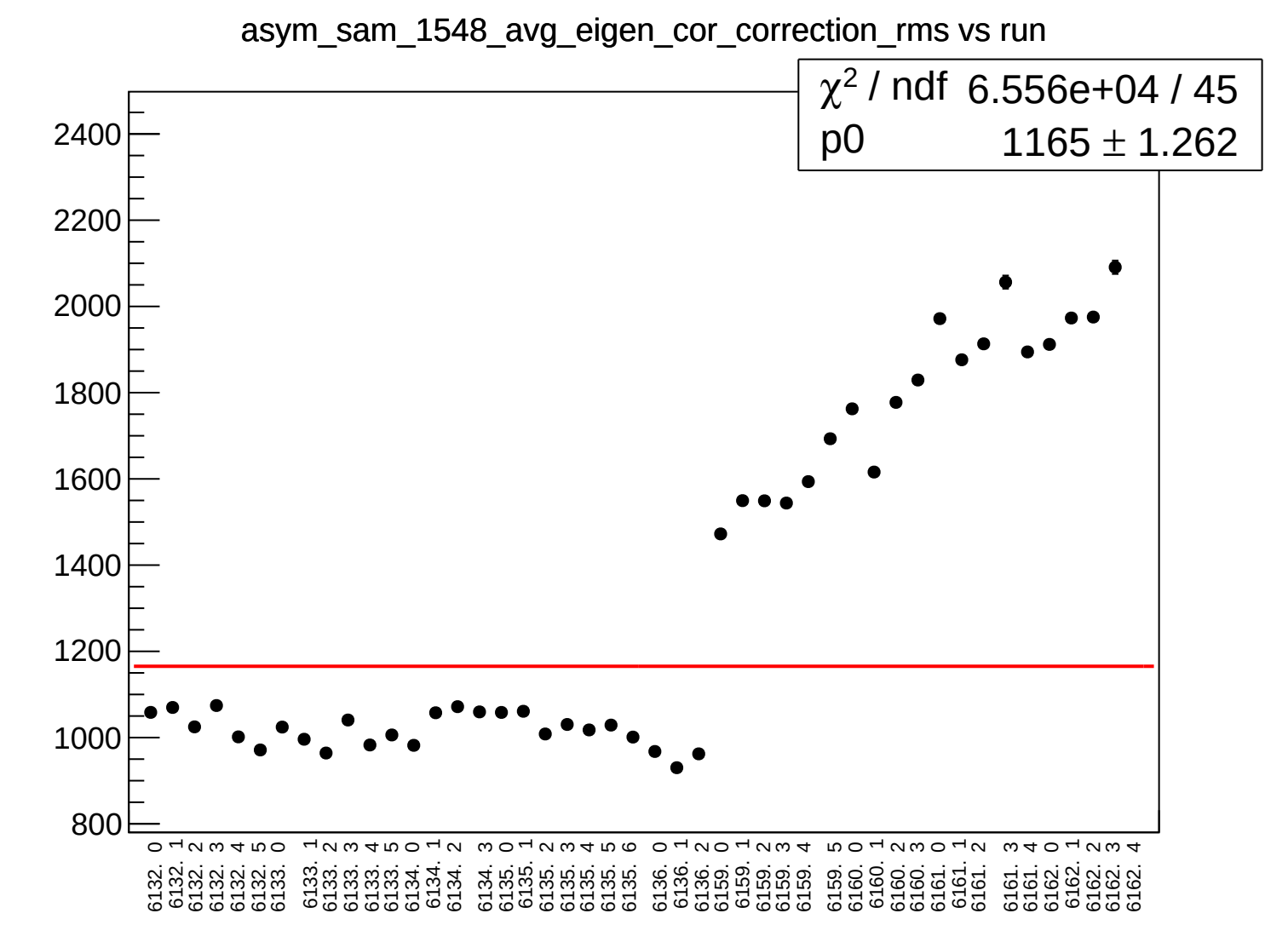
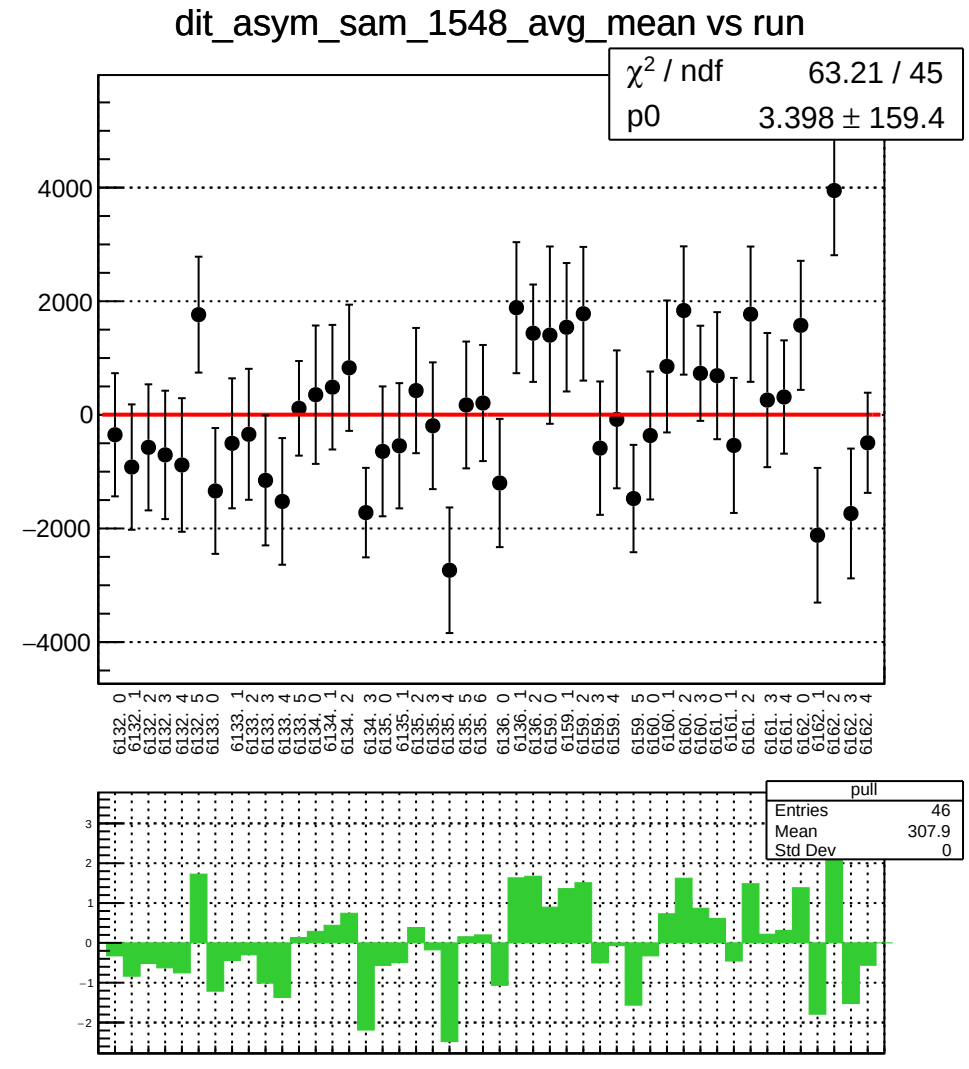
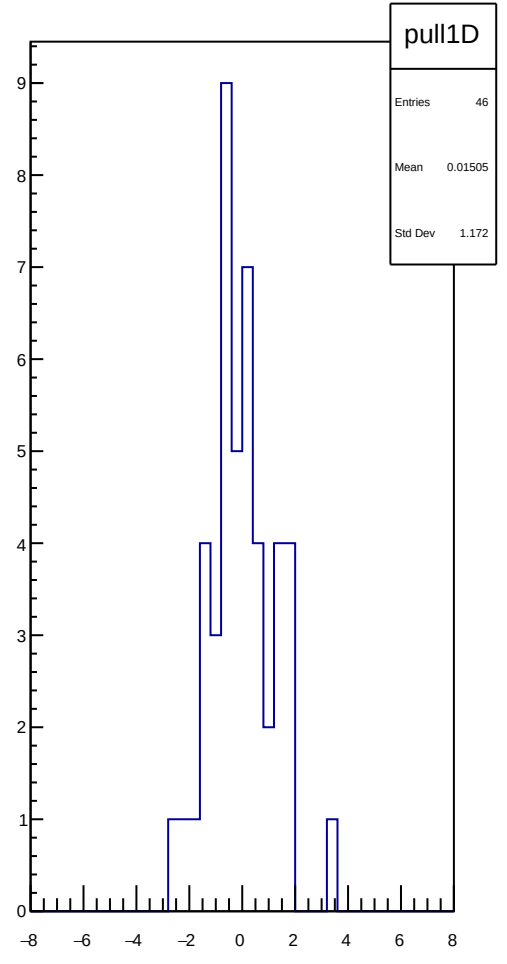
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

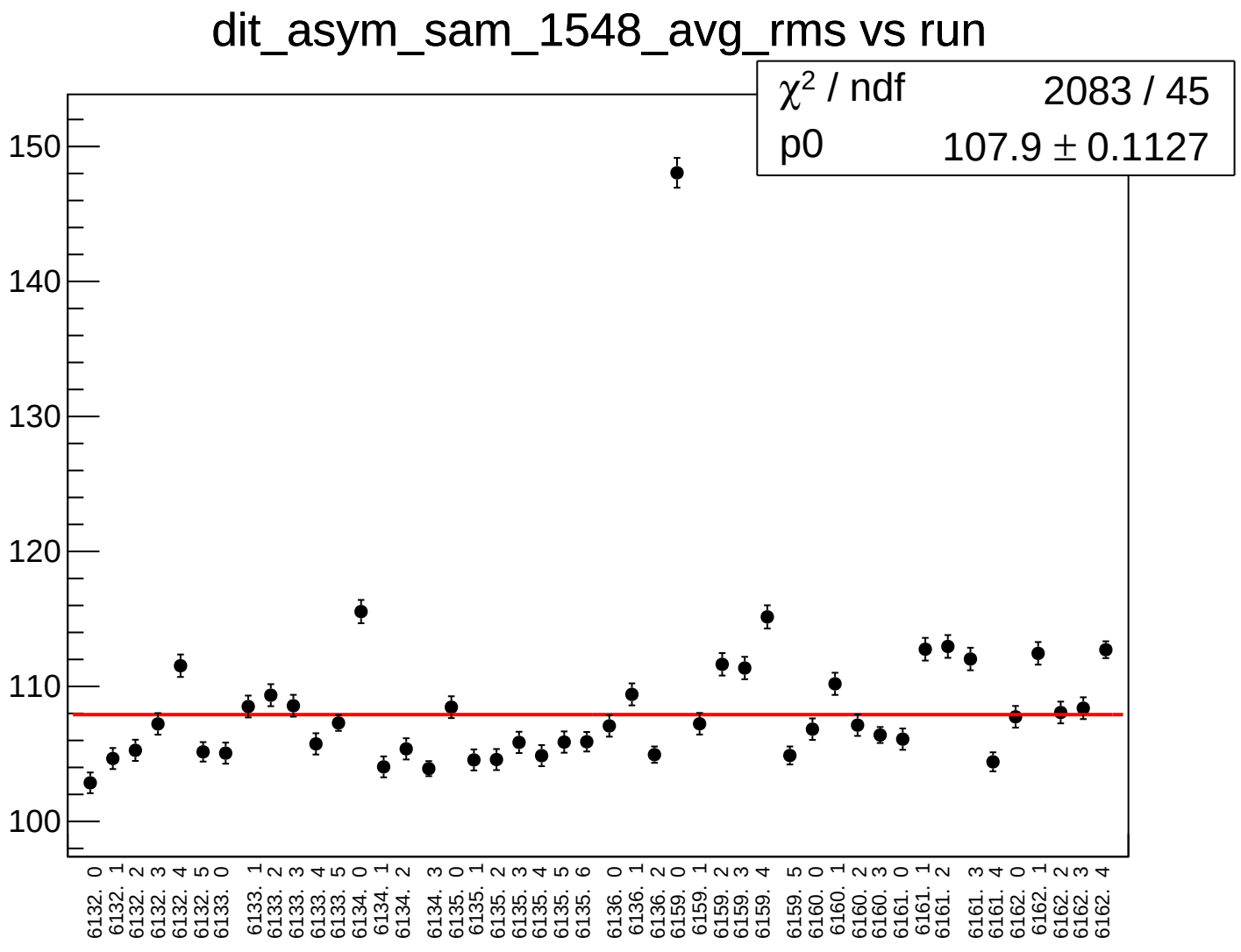

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 49.32 / 45
p0 146.3 ± 1785
pull
Entries 46
Mean 62.98
Std Dev 0

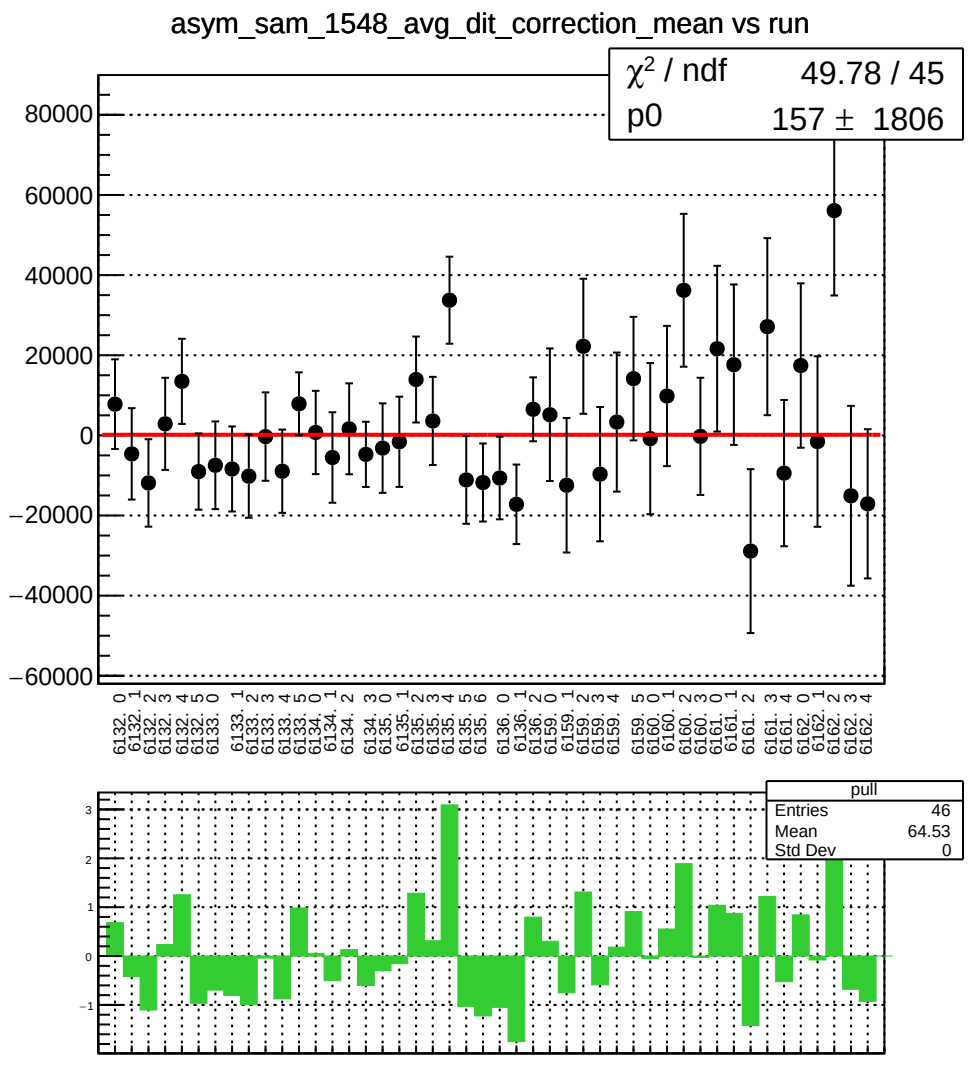

pull1D
Entries 46
Mean 0.06619
Std Dev 1.033

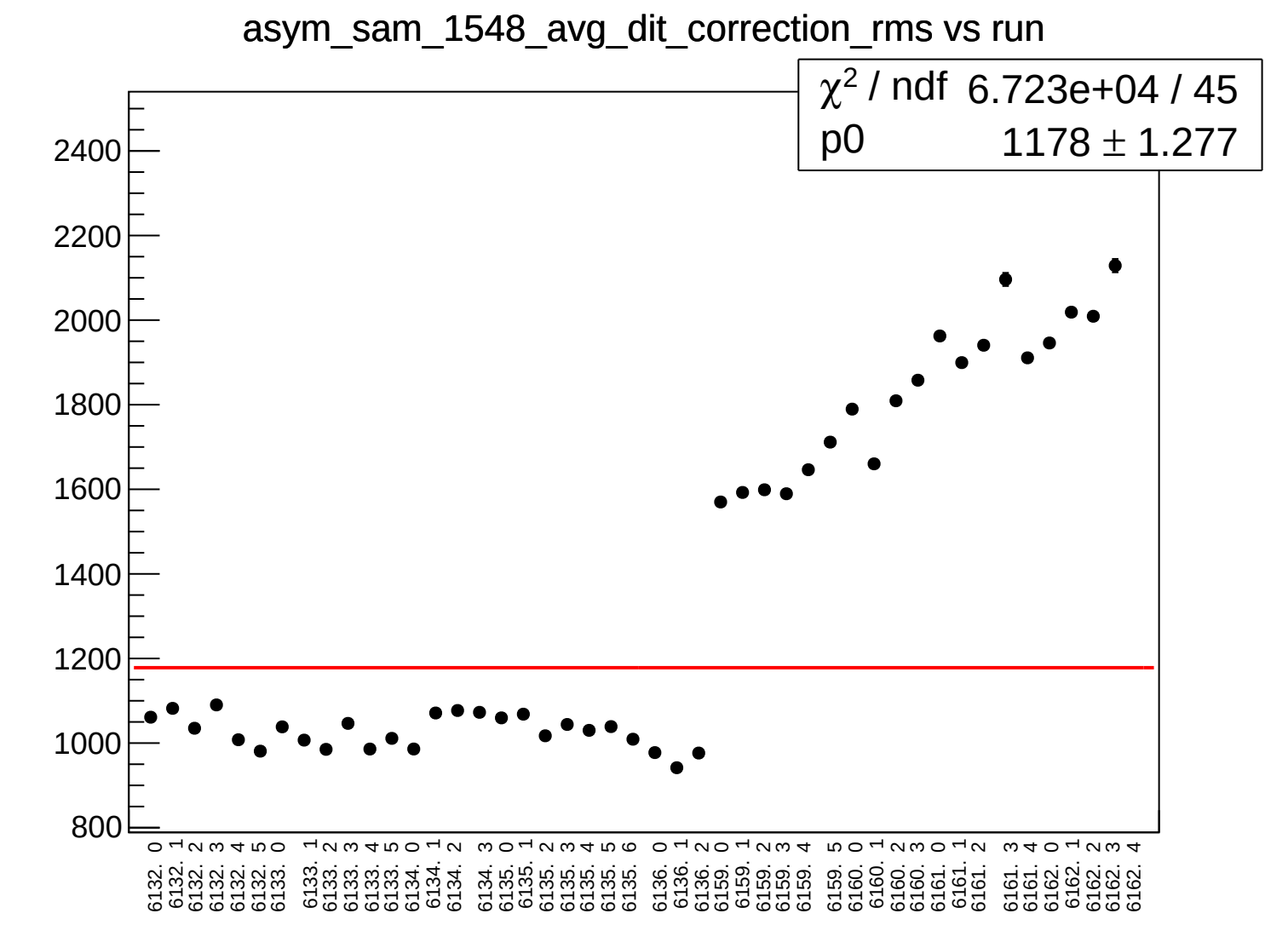

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.556e+04 / 45
p0 1165 ± 1.262
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

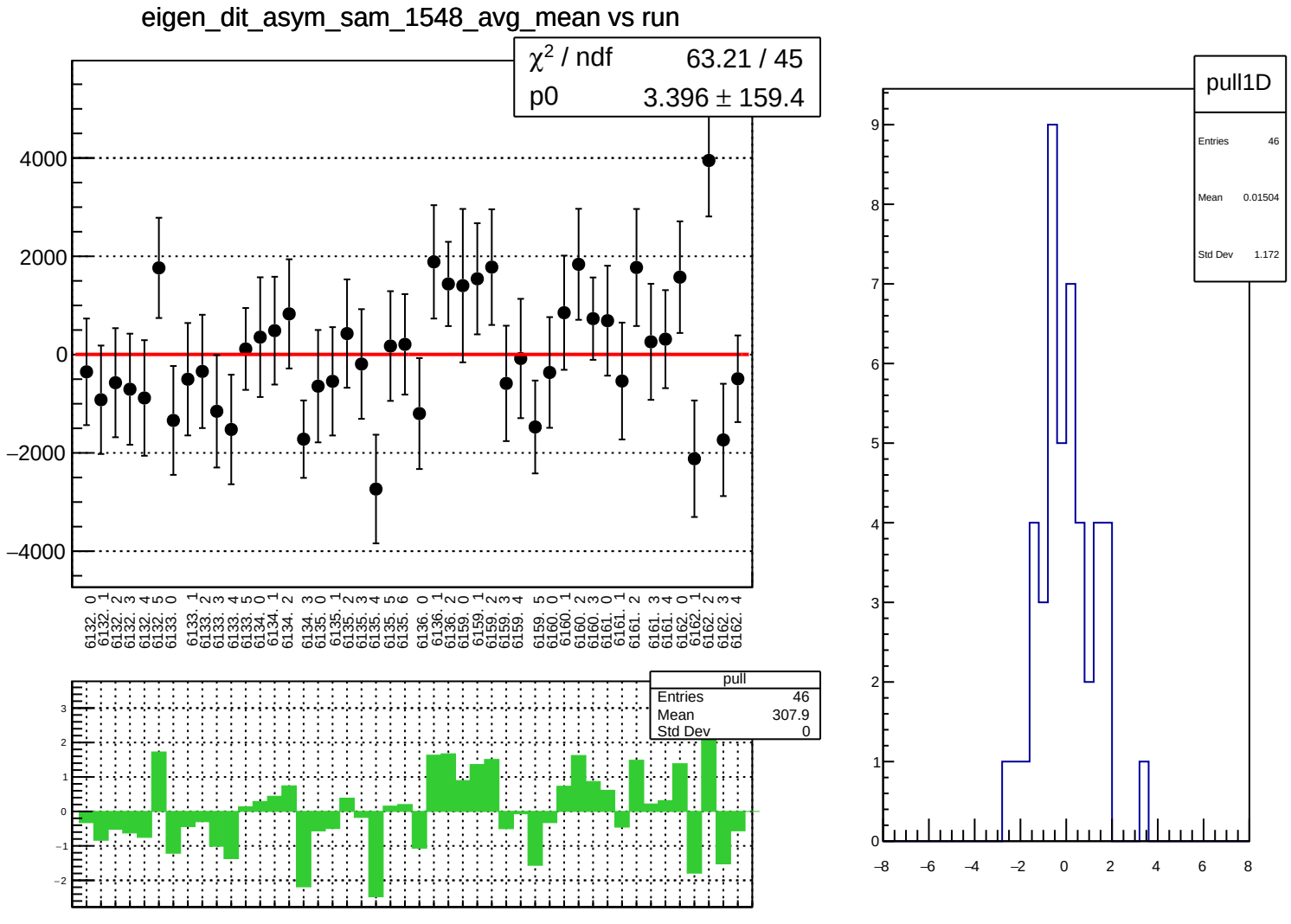

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 63.21 / 45
p0 3.398 ± 159.4
4000
2000
0
−2000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 307.9
Std Dev 0
3
2
1
0
−1
−2

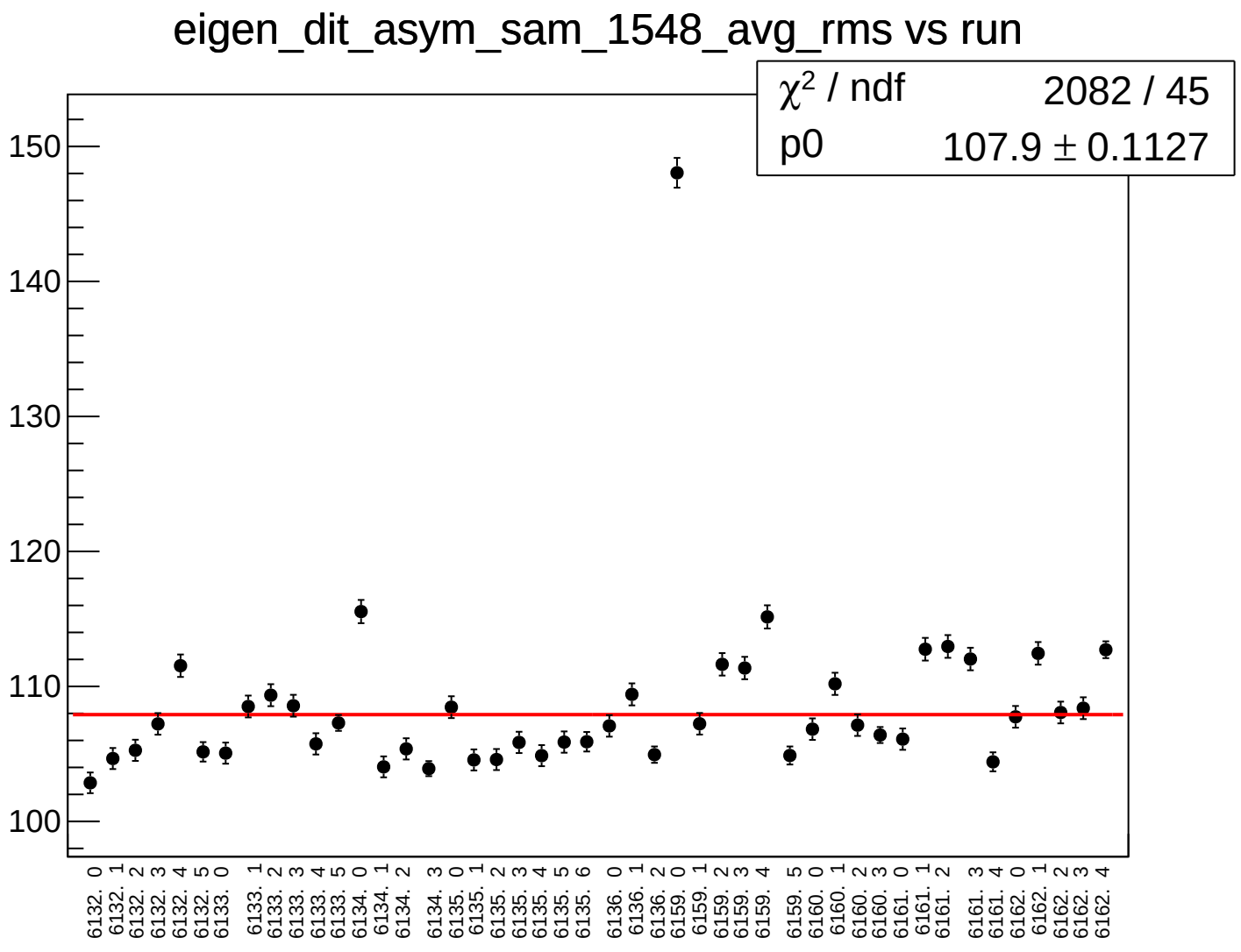

pull1D
Entries 46
Mean 0.01505
Std Dev 1.172
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

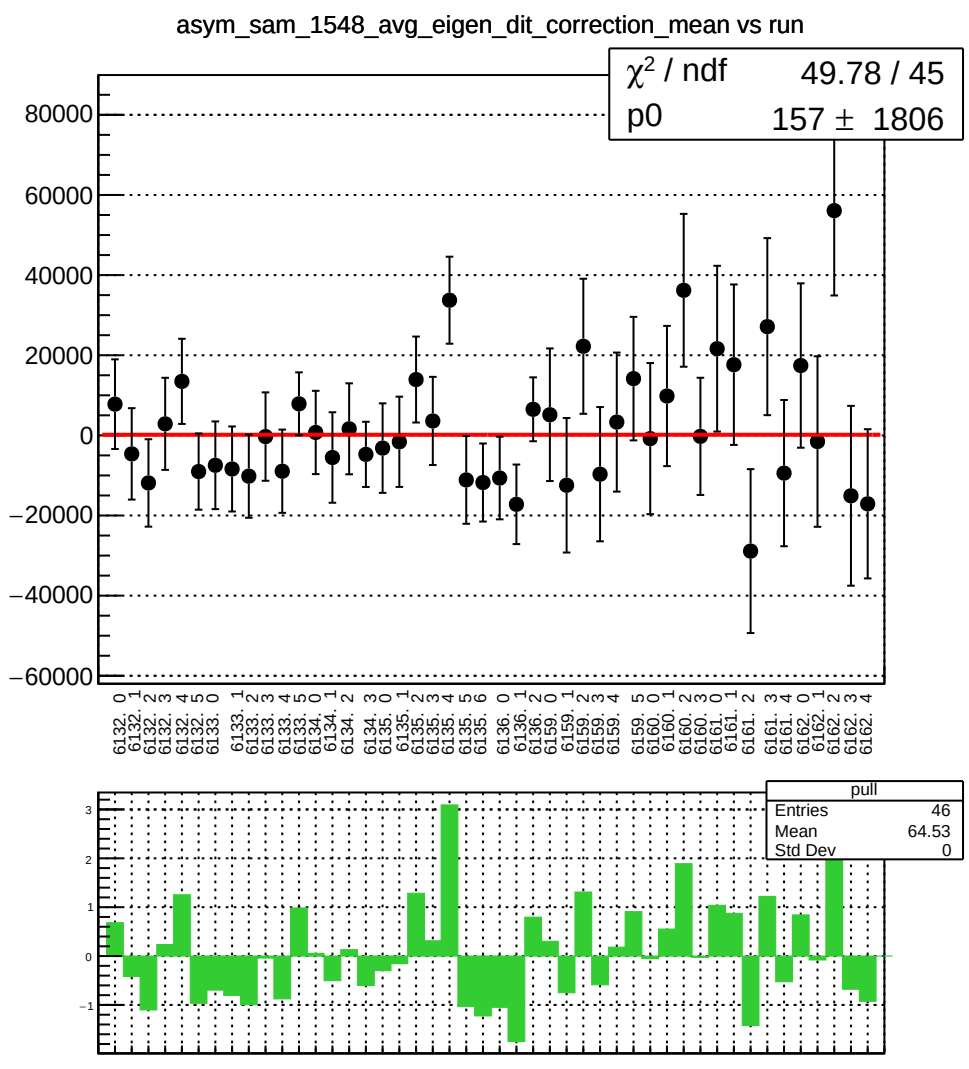

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 2083 / 45
p0 107.9 ± 0.1127
150
140
130
120
110
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

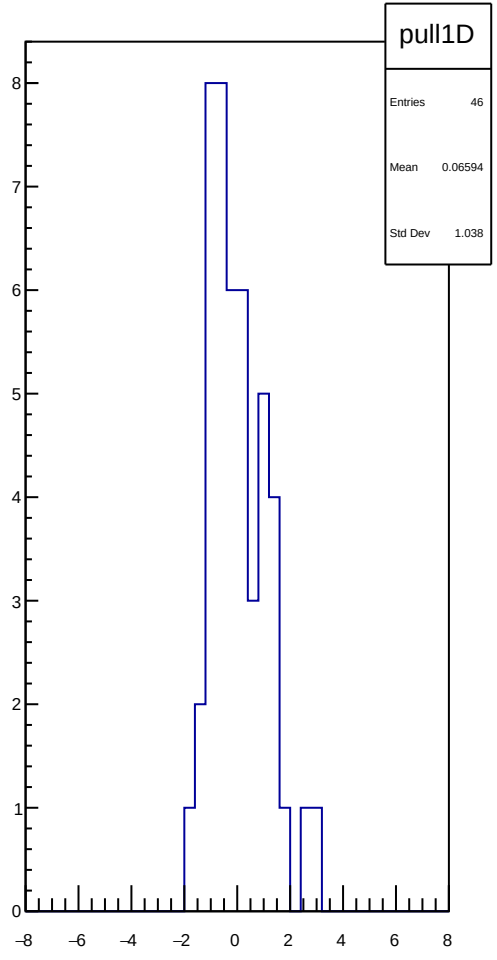

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 49.78 / 45
p0 157 ± 1806
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 64.53
Std Dev 0
3
2
1
0
−1
pull1D
Entries 46
Mean 0.06594
Std Dev 1.038
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

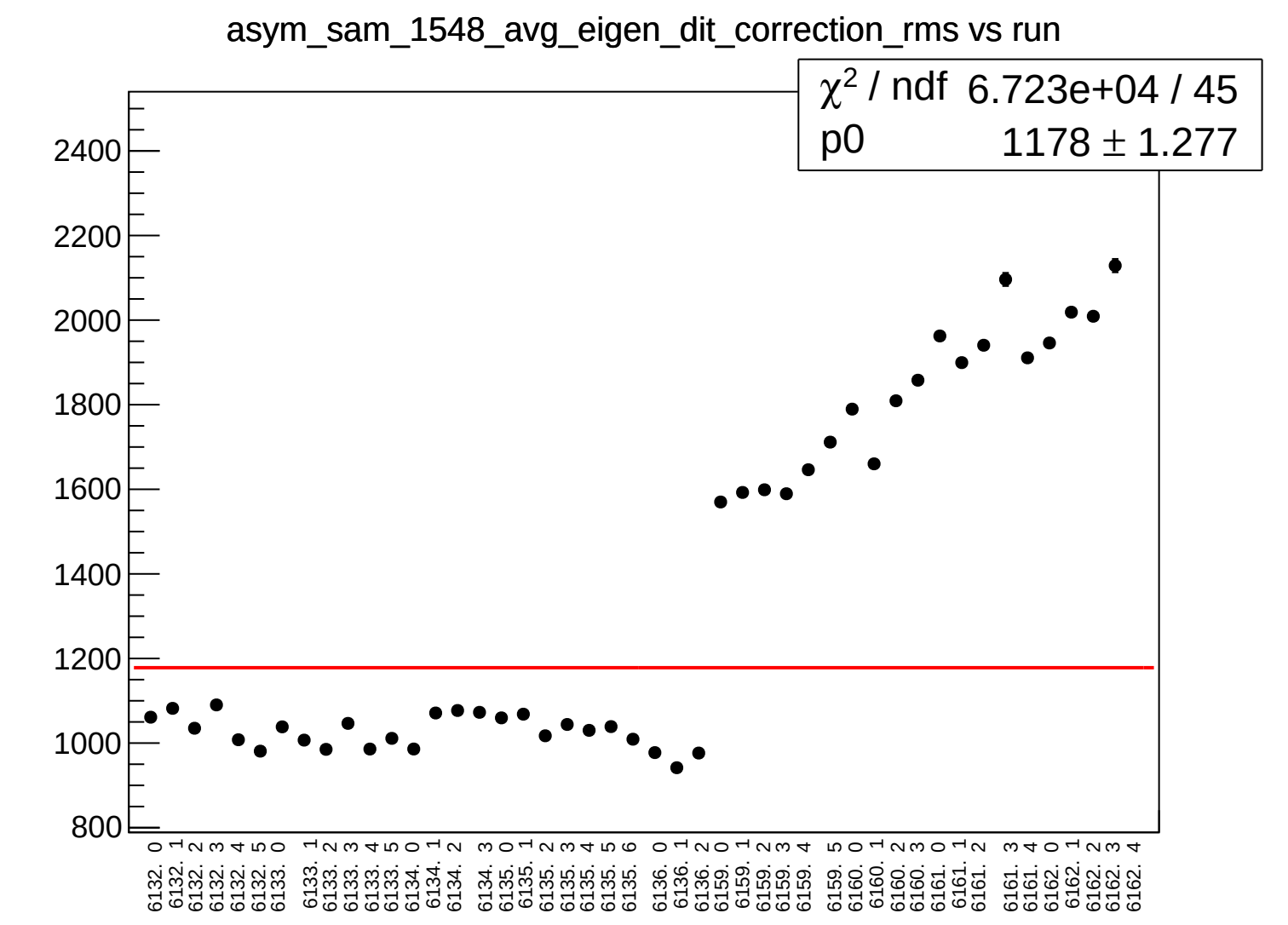

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 6.723e+04 / 45
p0 1178 ± 1.277
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

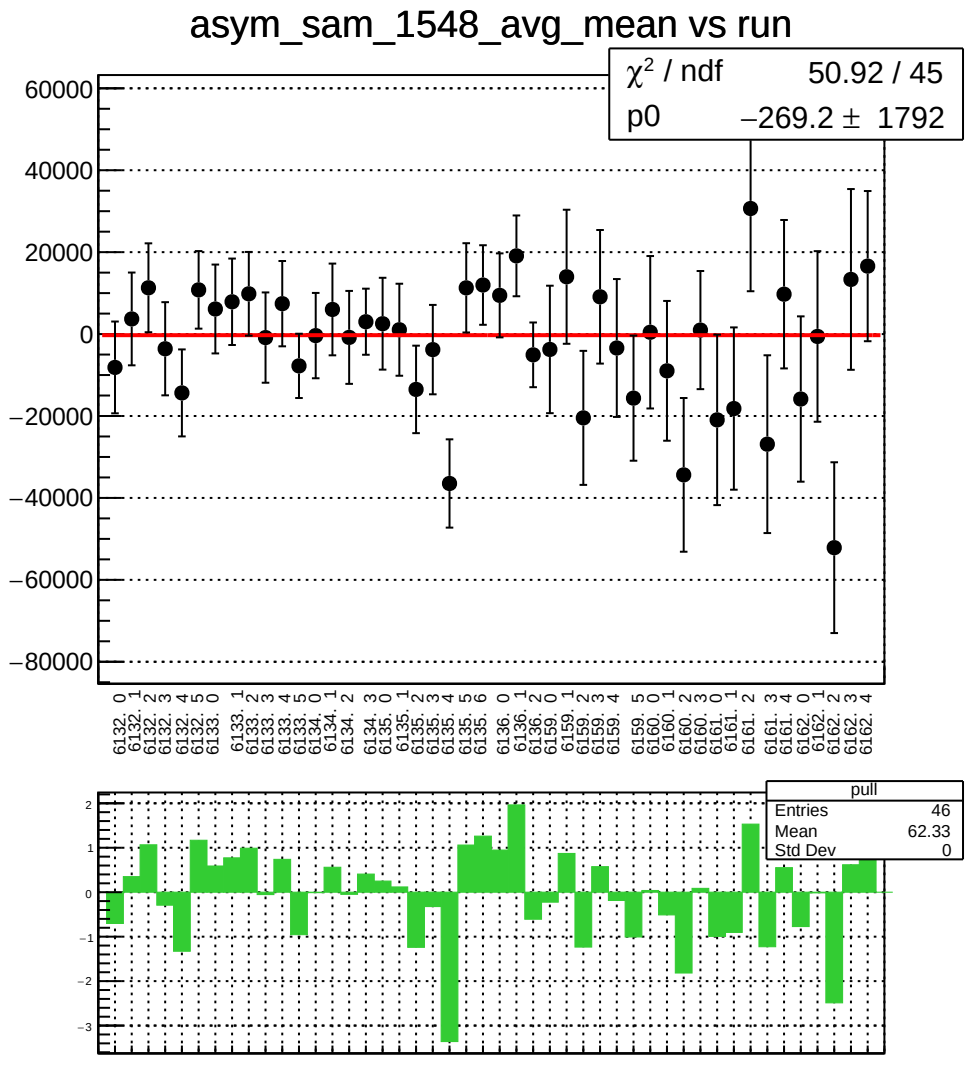

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 63.21 / 45
p0 3.396 ± 159.4
4000
2000
0
−2000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 307.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.01504
Std Dev 1.172
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

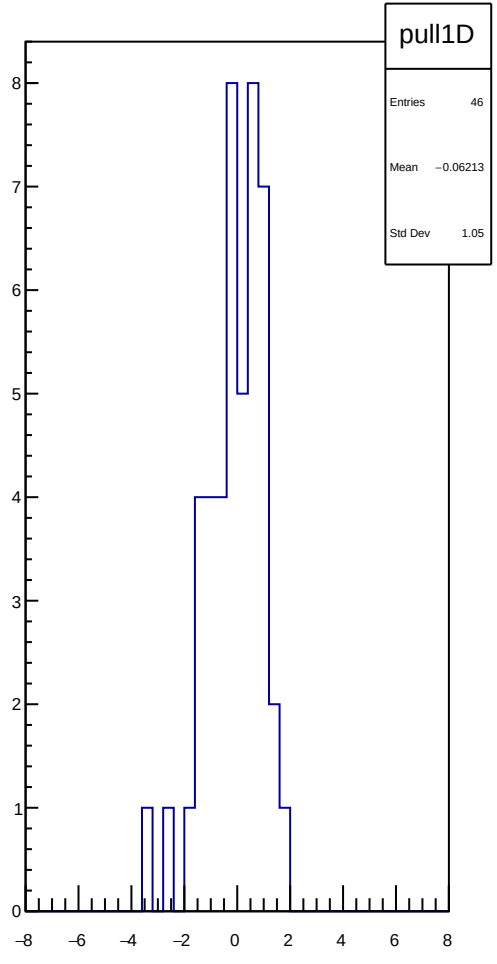

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 2082 / 45
p0 107.9 ± 0.1127
150
140
130
120
110
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

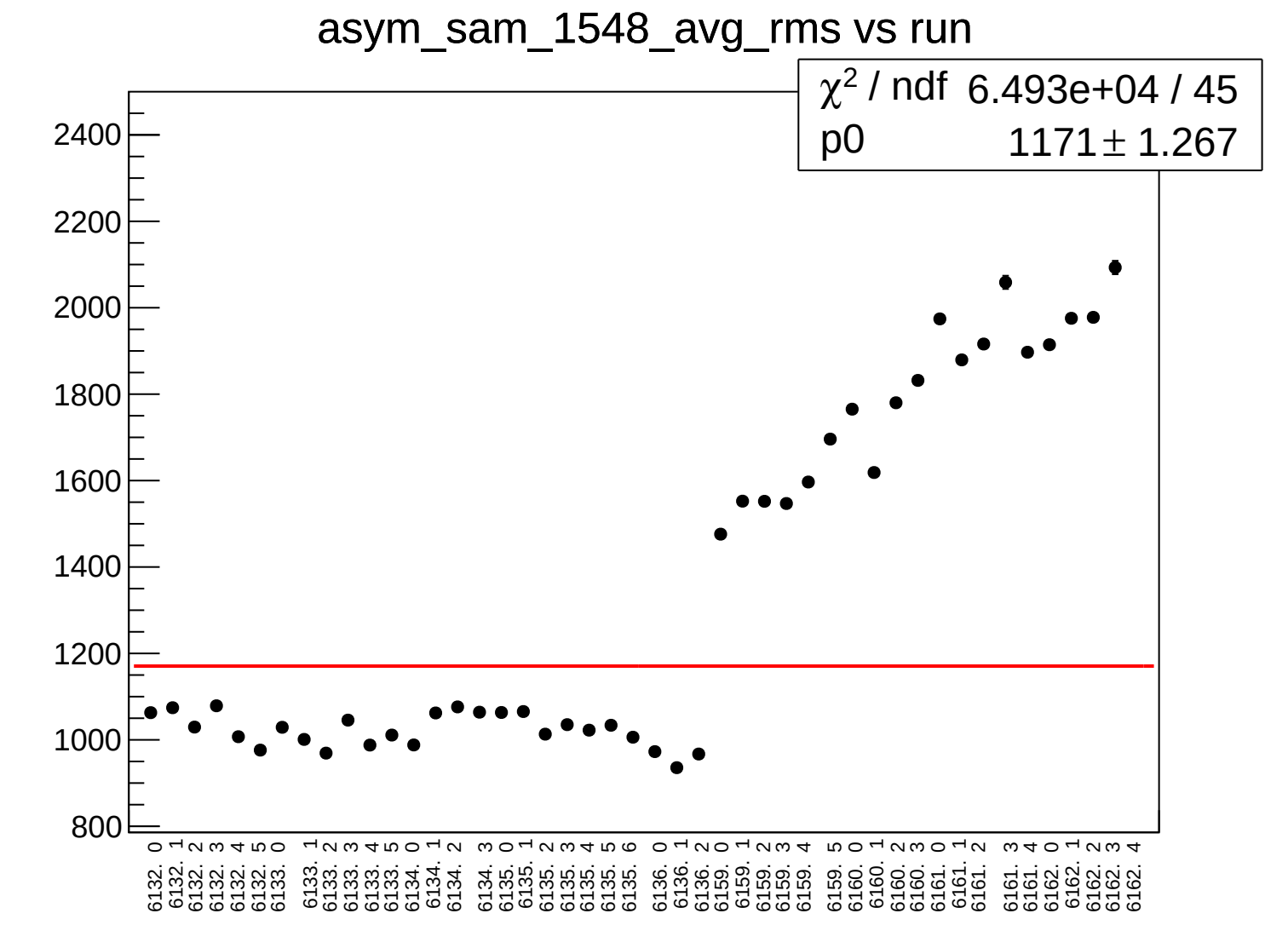

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 49.78 / 45
p0 157 ± 1806
pull
Entries 46
Mean 64.53
Std Dev 0

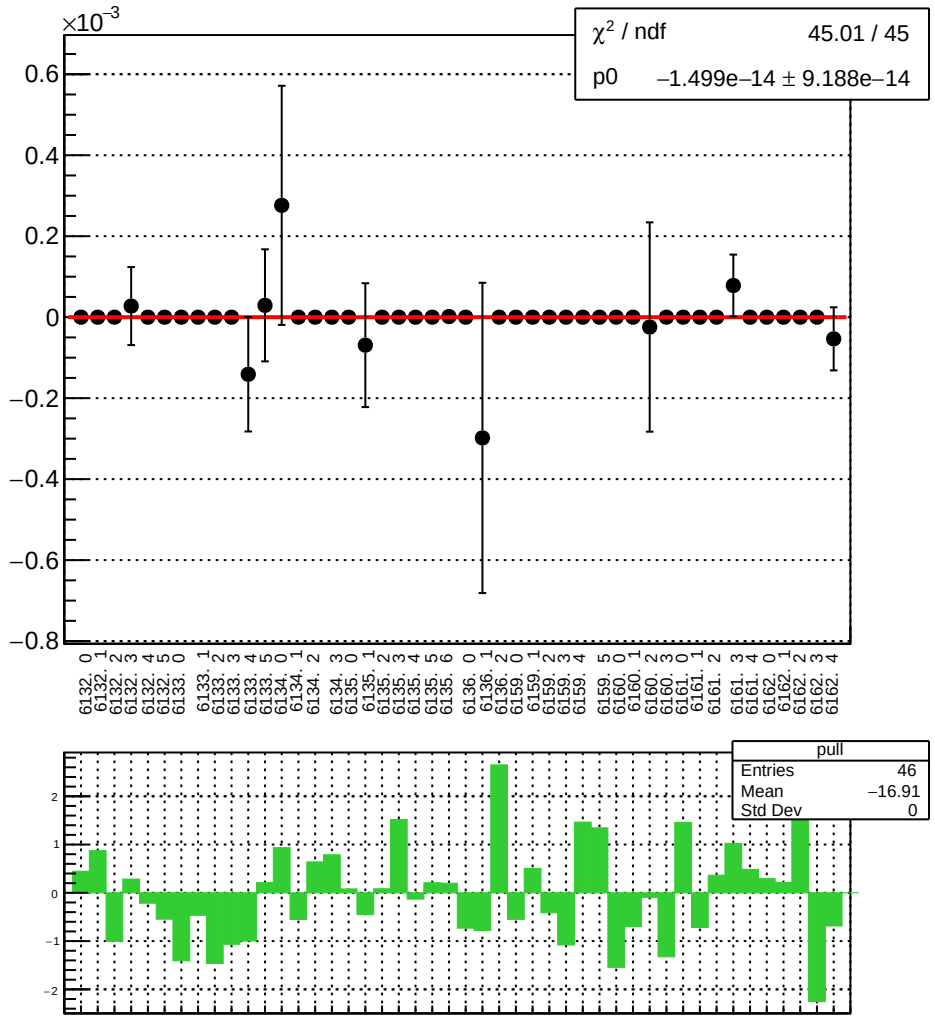

pull1D
Entries 46
Mean 0.06594
Std Dev 1.038

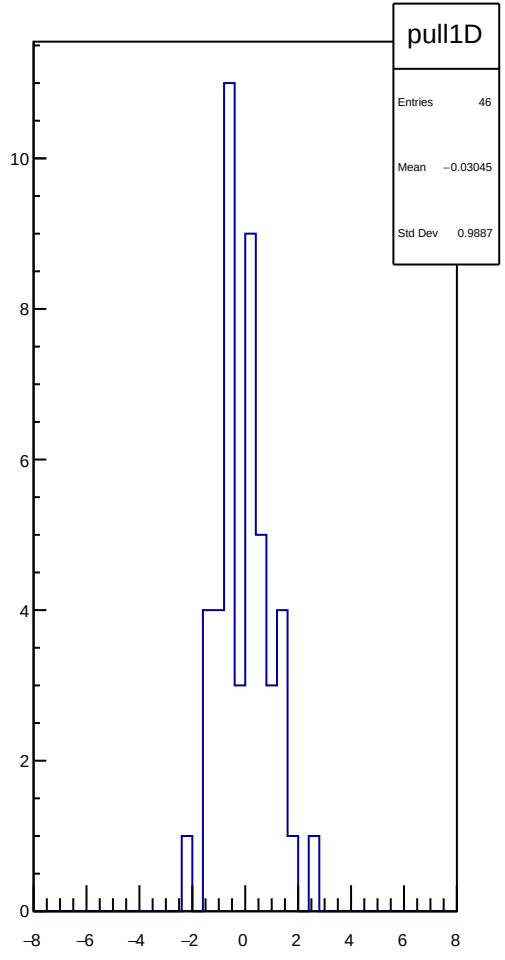

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 6.723e+04 / 45
p0 1178 ± 1.277
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

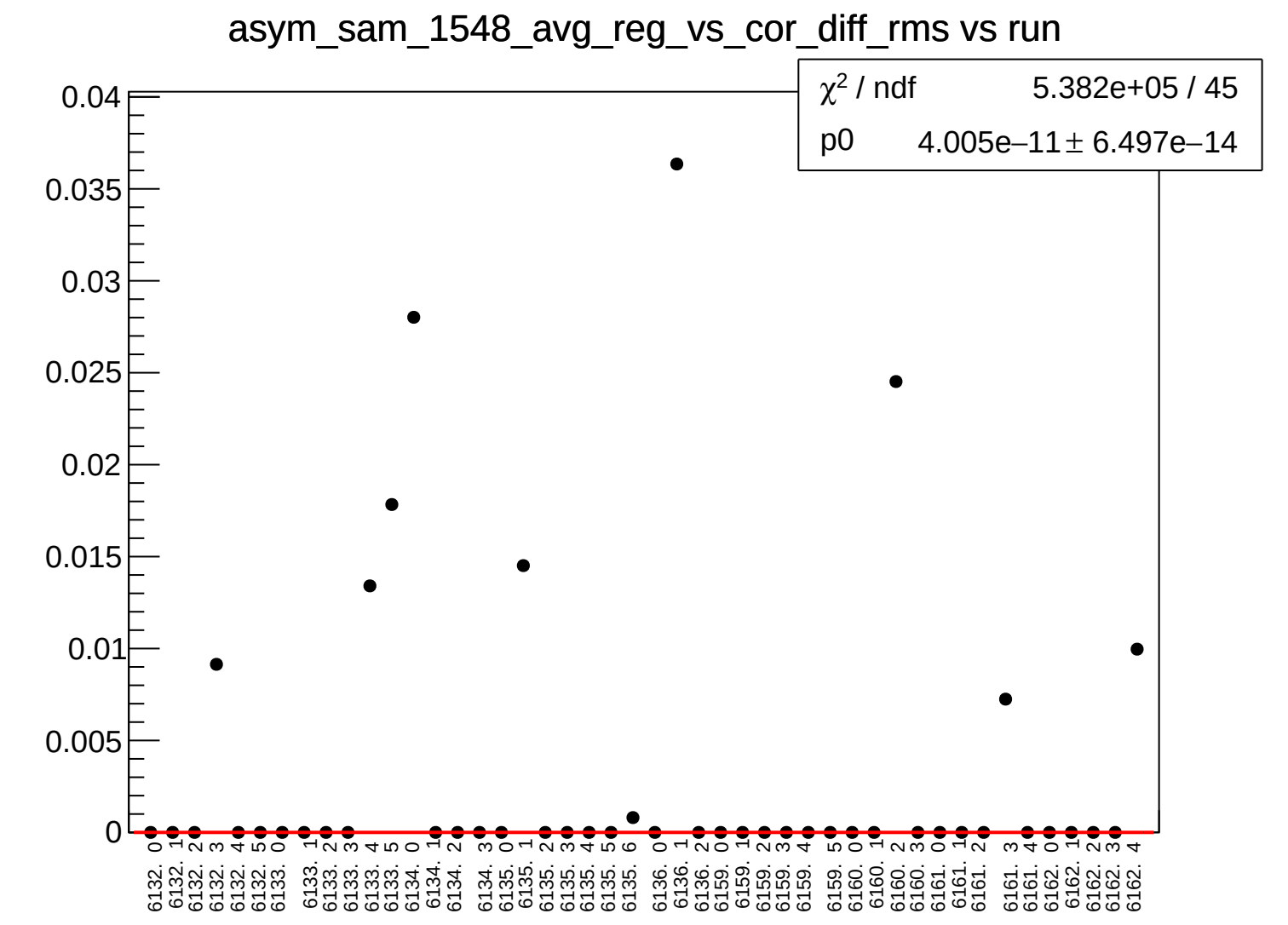

asym_sam_1548_avg_mean vs run
χ² / ndf 50.92 / 45
p0 −269.2 ± 1792
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 62.33
Std Dev 0
2
1
0
−1
−2
−3

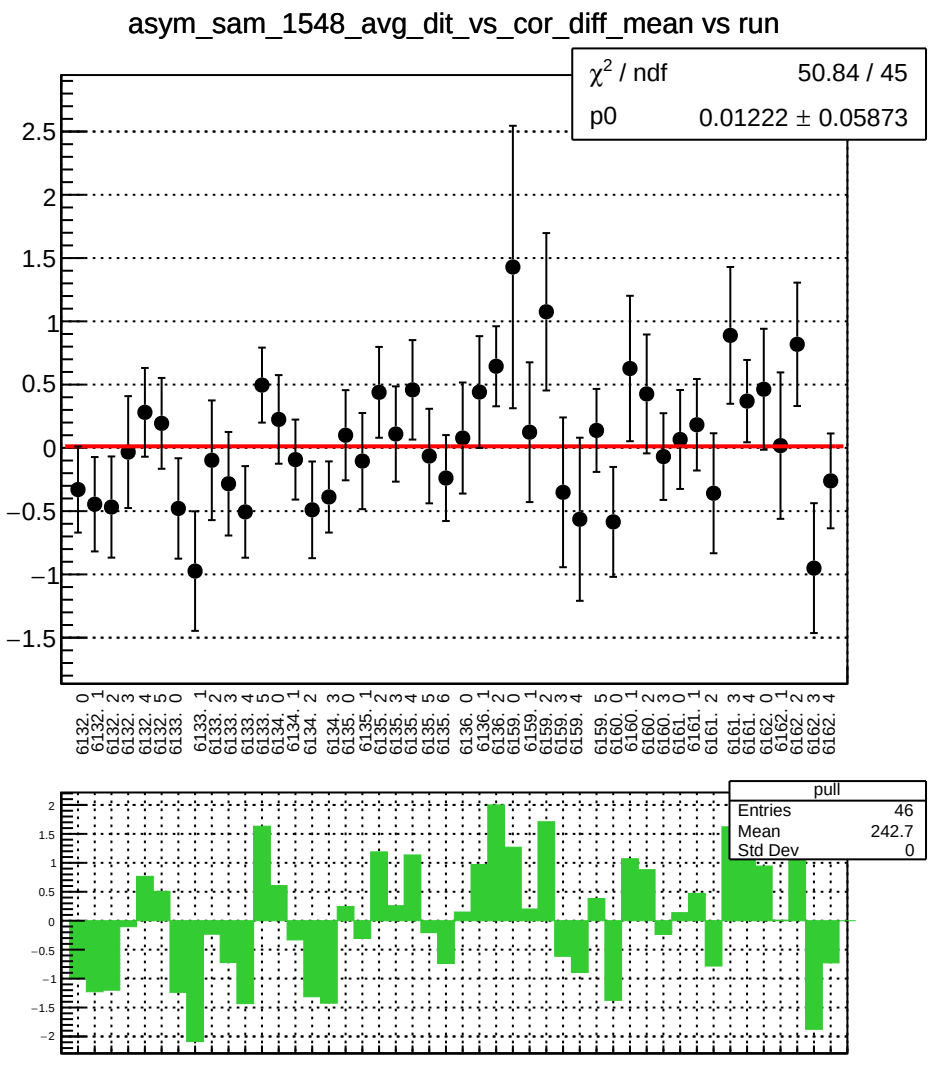

pull1D
Entries 46
Mean −0.06213
Std Dev 1.05
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

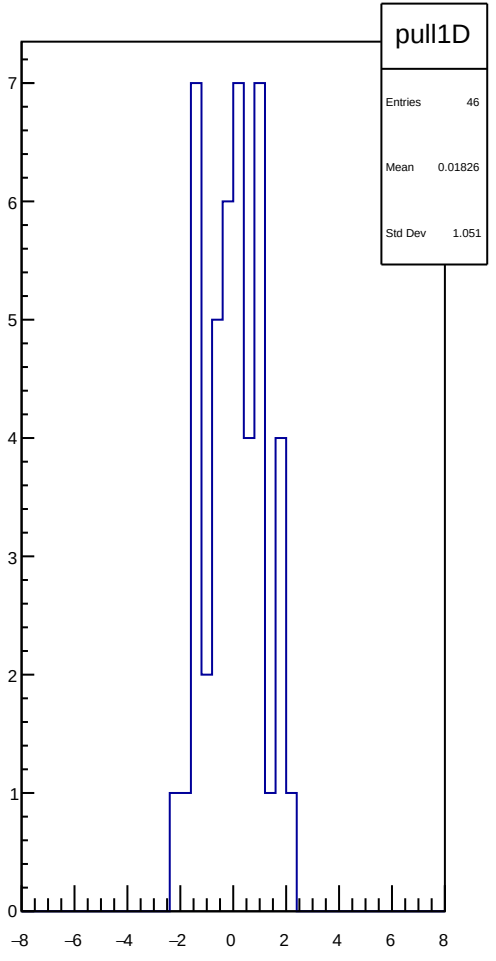

asym_sam_1548_avg_rms vs run
χ² / ndf 6.493e+04 / 45
p0 1171 ± 1.267
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

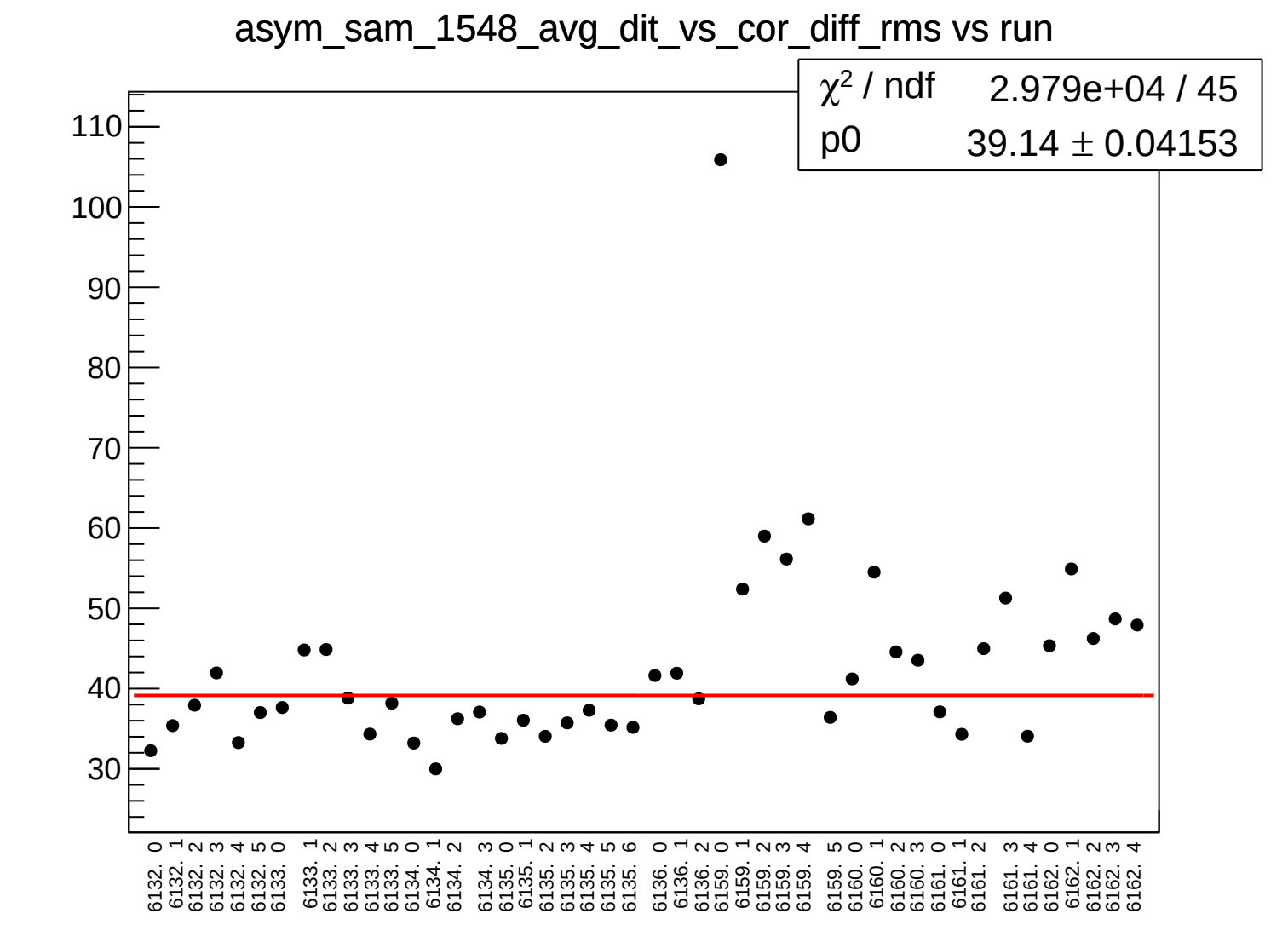

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 45.01 / 45
p0 −1.499e−14 ± 9.188e−14
pull
Entries 46
Mean −16.91
Std Dev 0

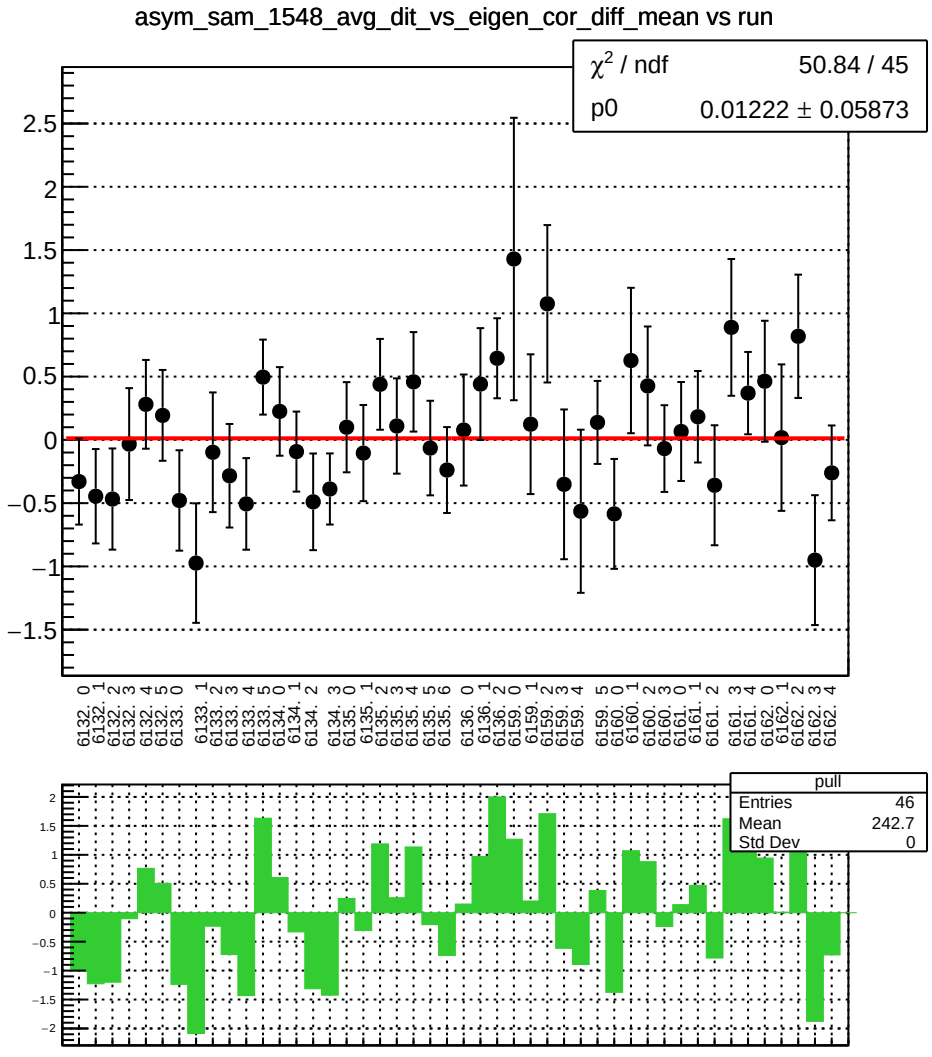

pull1D
Entries 46
Mean −0.03045
Std Dev 0.9887

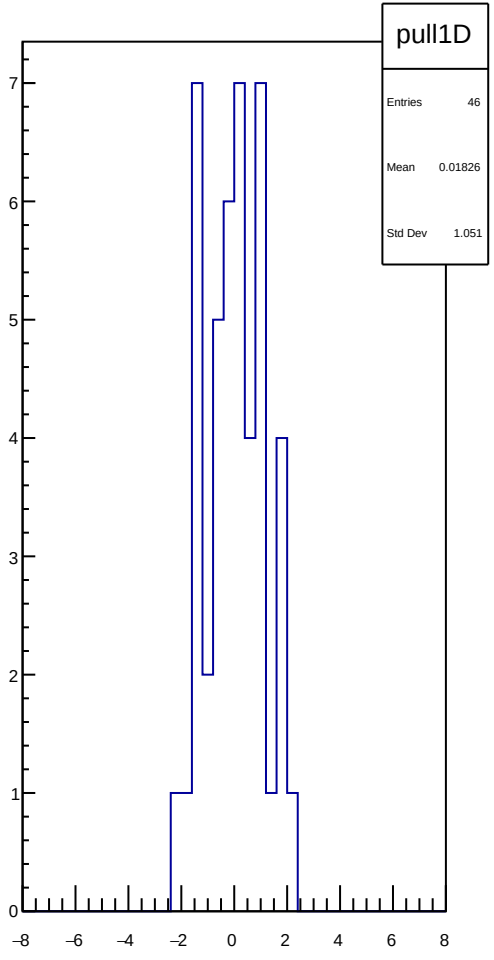

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.382e+05 / 45
p0 4.005e−11 ± 6.497e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

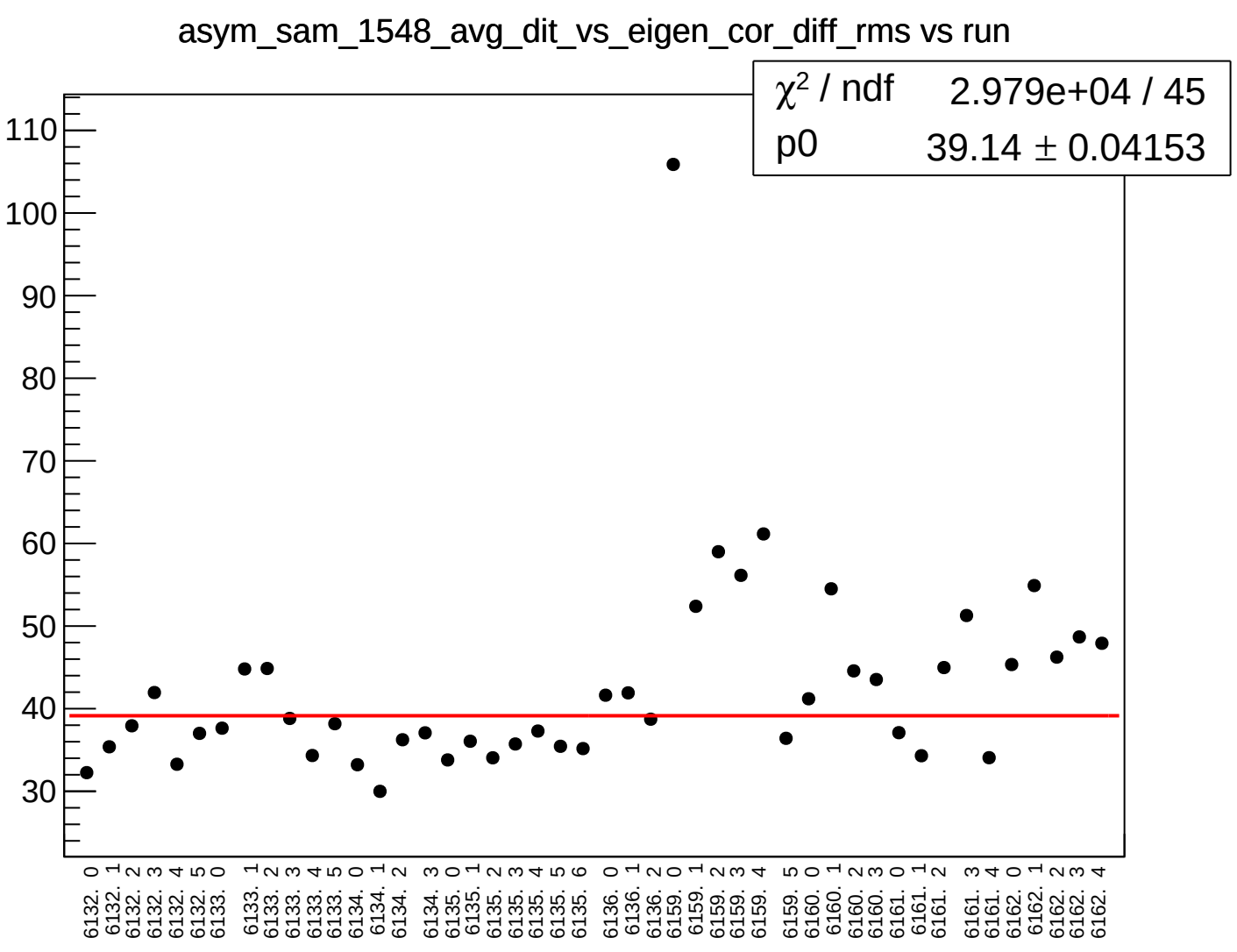

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 50.84 / 45
p0 0.01222 ± 0.05873
pull
Entries 46
Mean 242.7
Std Dev 0

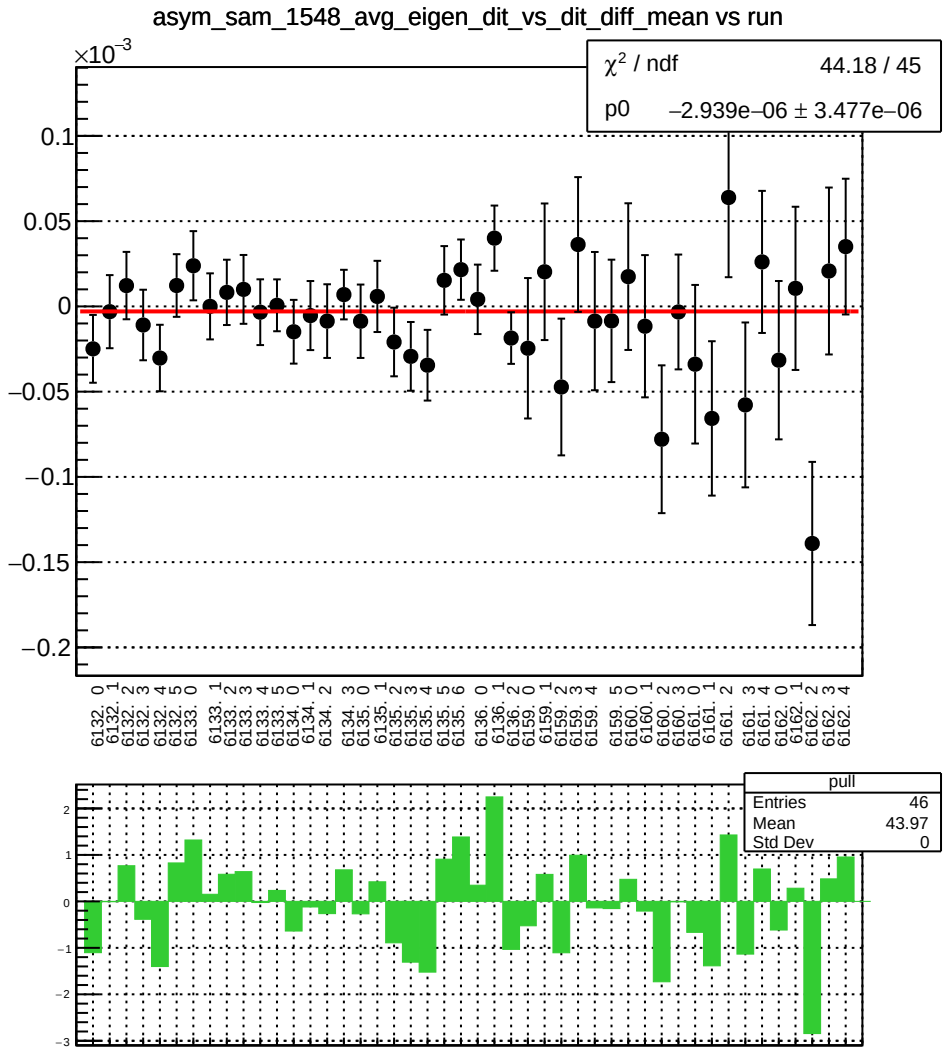

pull1D
Entries 46
Mean 0.01826
Std Dev 1.051

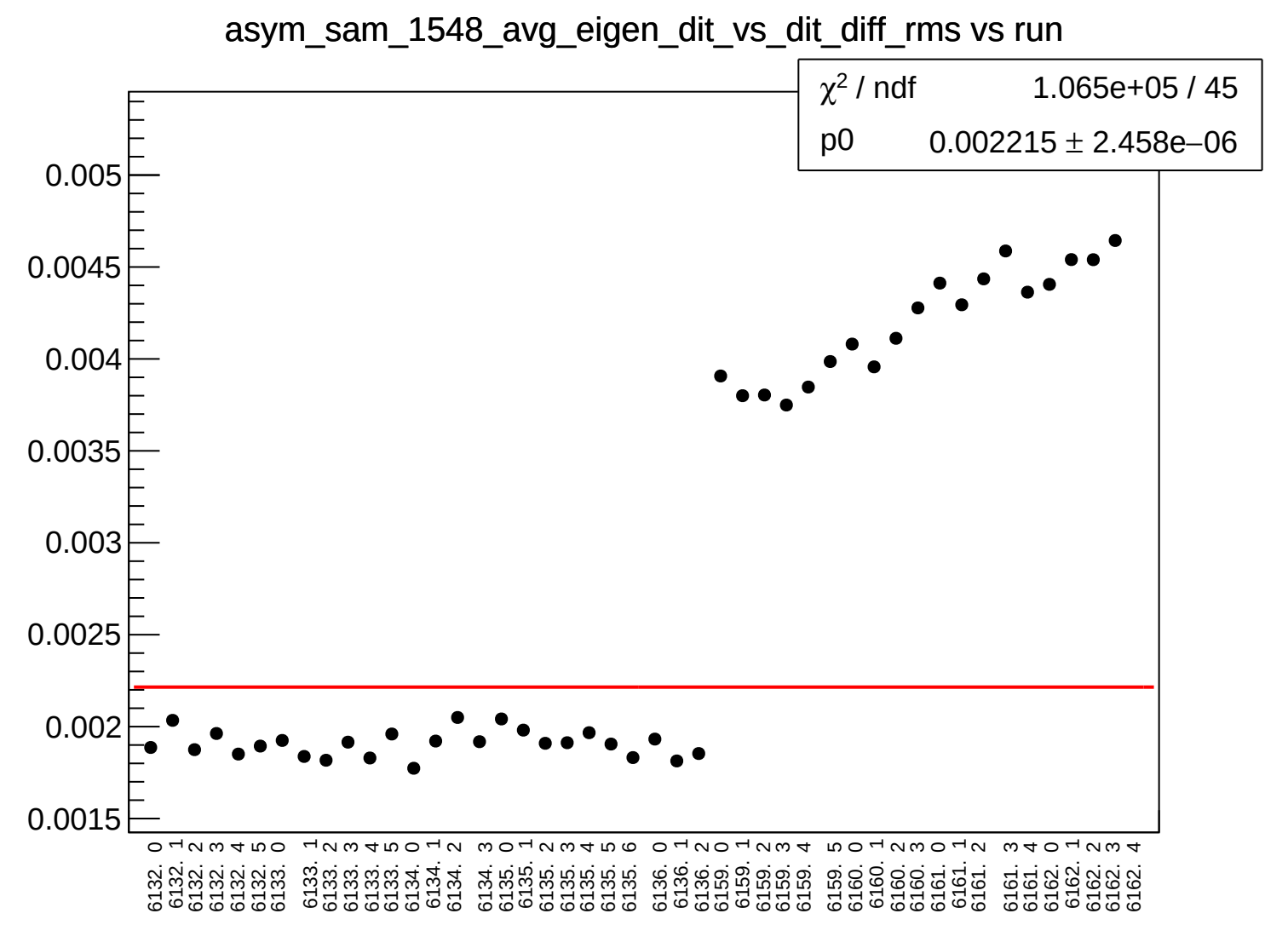

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.979e+04 / 45
p0 39.14 ± 0.04153
110
100
90
80
70
60
50
40
30
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

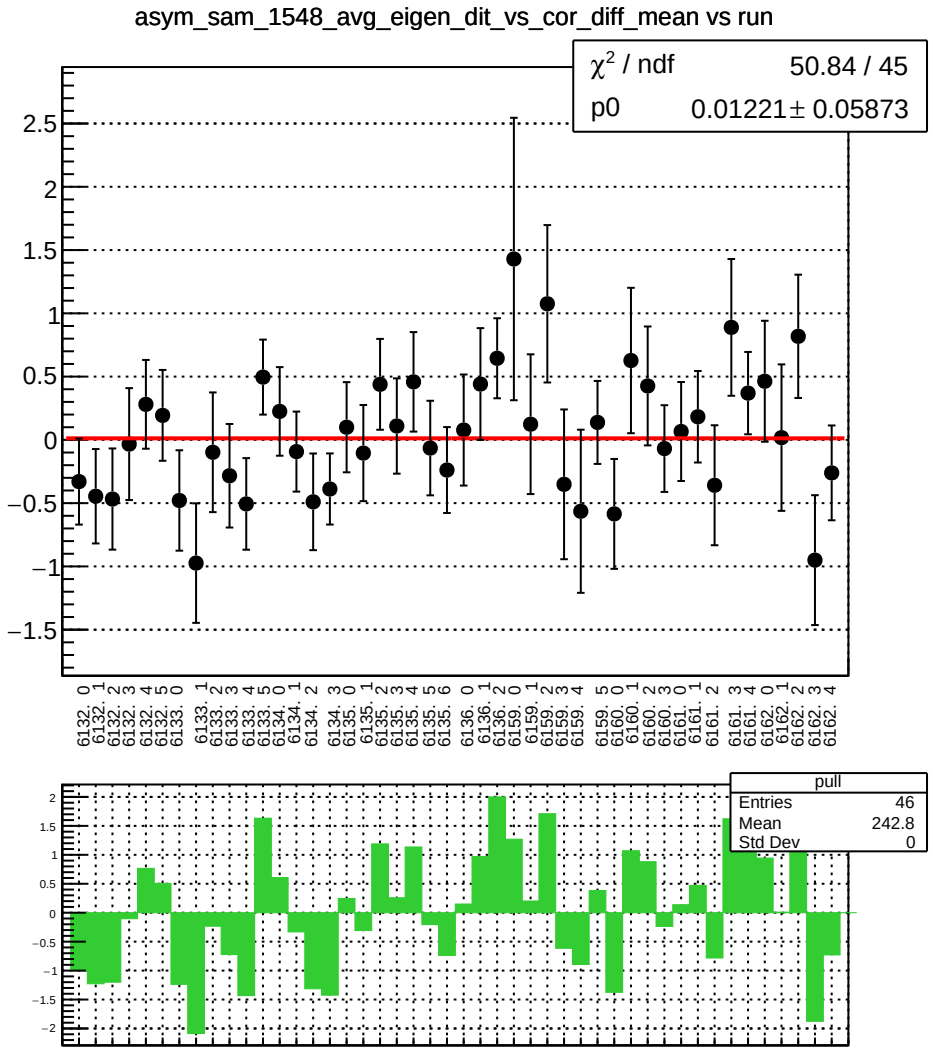

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.84 / 45
p0 0.01222 ± 0.05873
pull
Entries 46
Mean 242.7
Std Dev 0

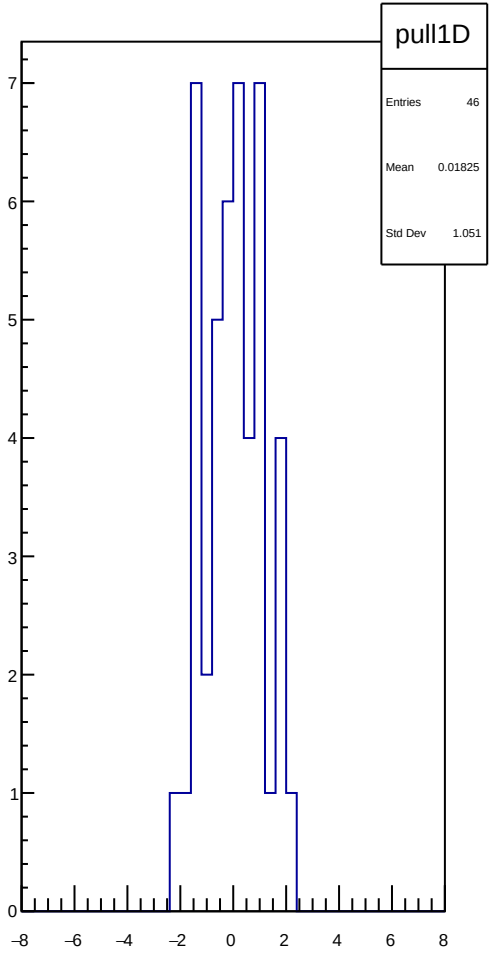

pull1D
Entries 46
Mean 0.01826
Std Dev 1.051

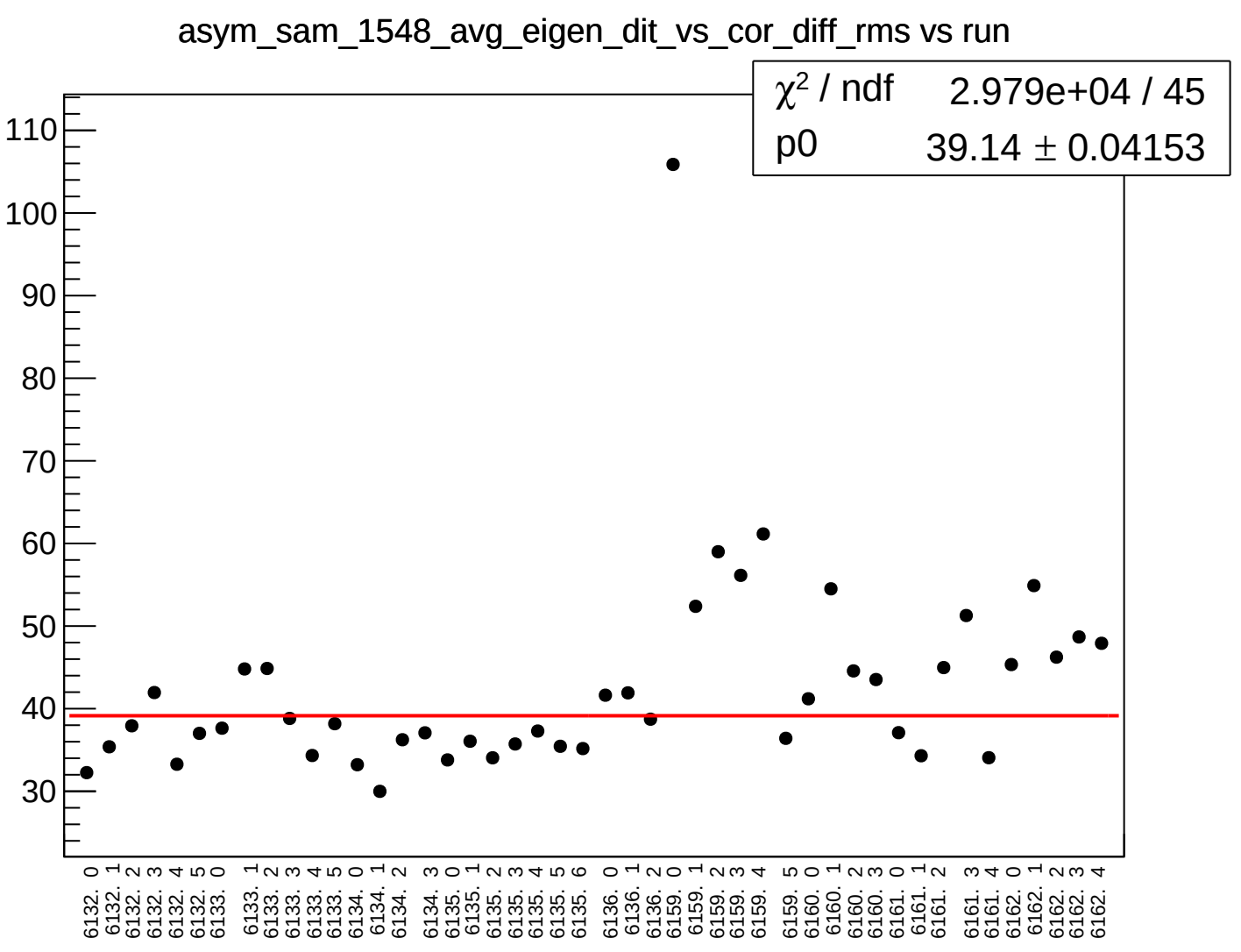

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.979e+04 / 45
p0 39.14 ± 0.04153
110
100
90
80
70
60
50
40
30
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

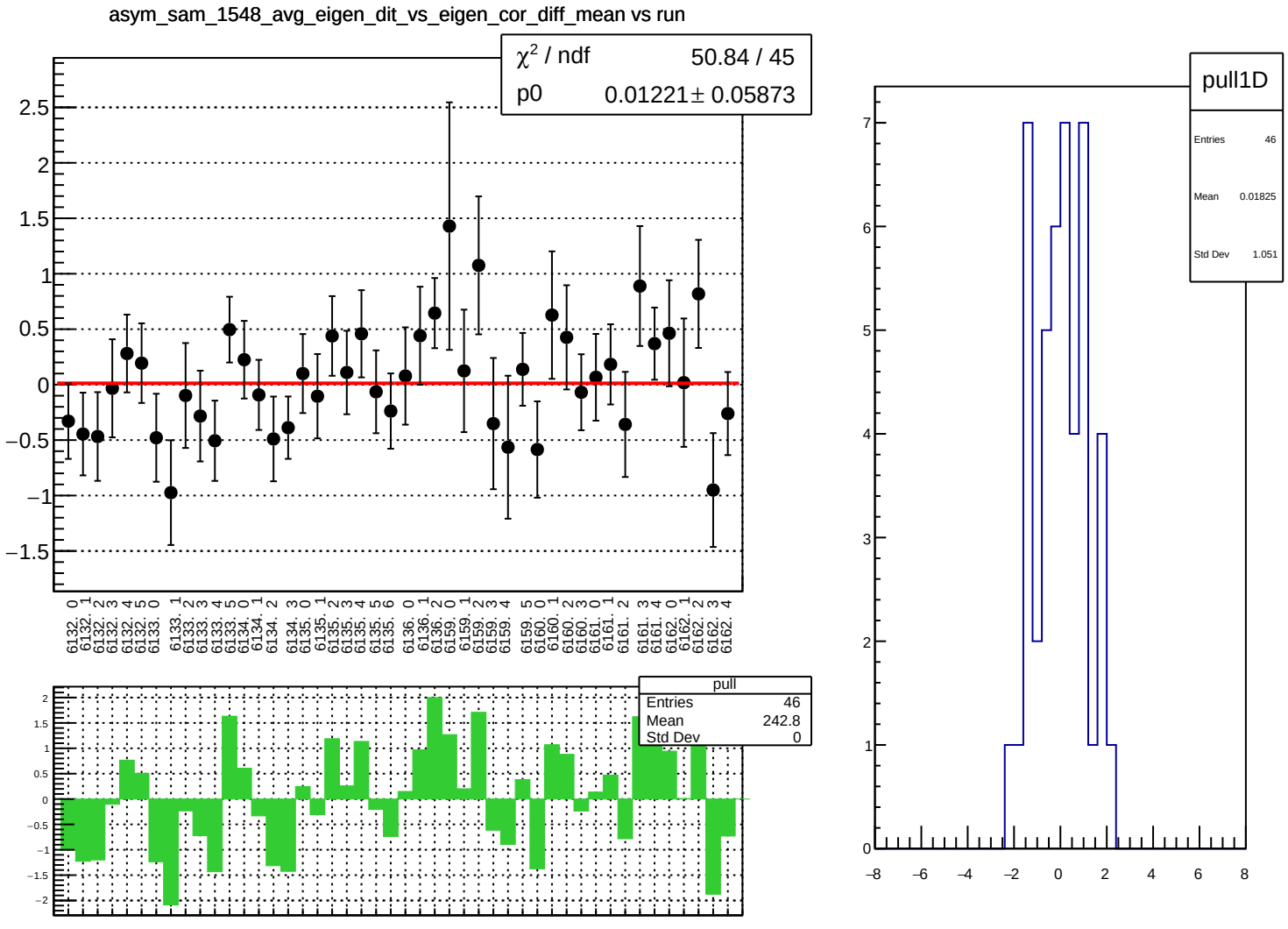

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 44.18 / 45
p0 −2.939e−06 ± 3.477e−06
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 43.97
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.06676
Std Dev 0.9777
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

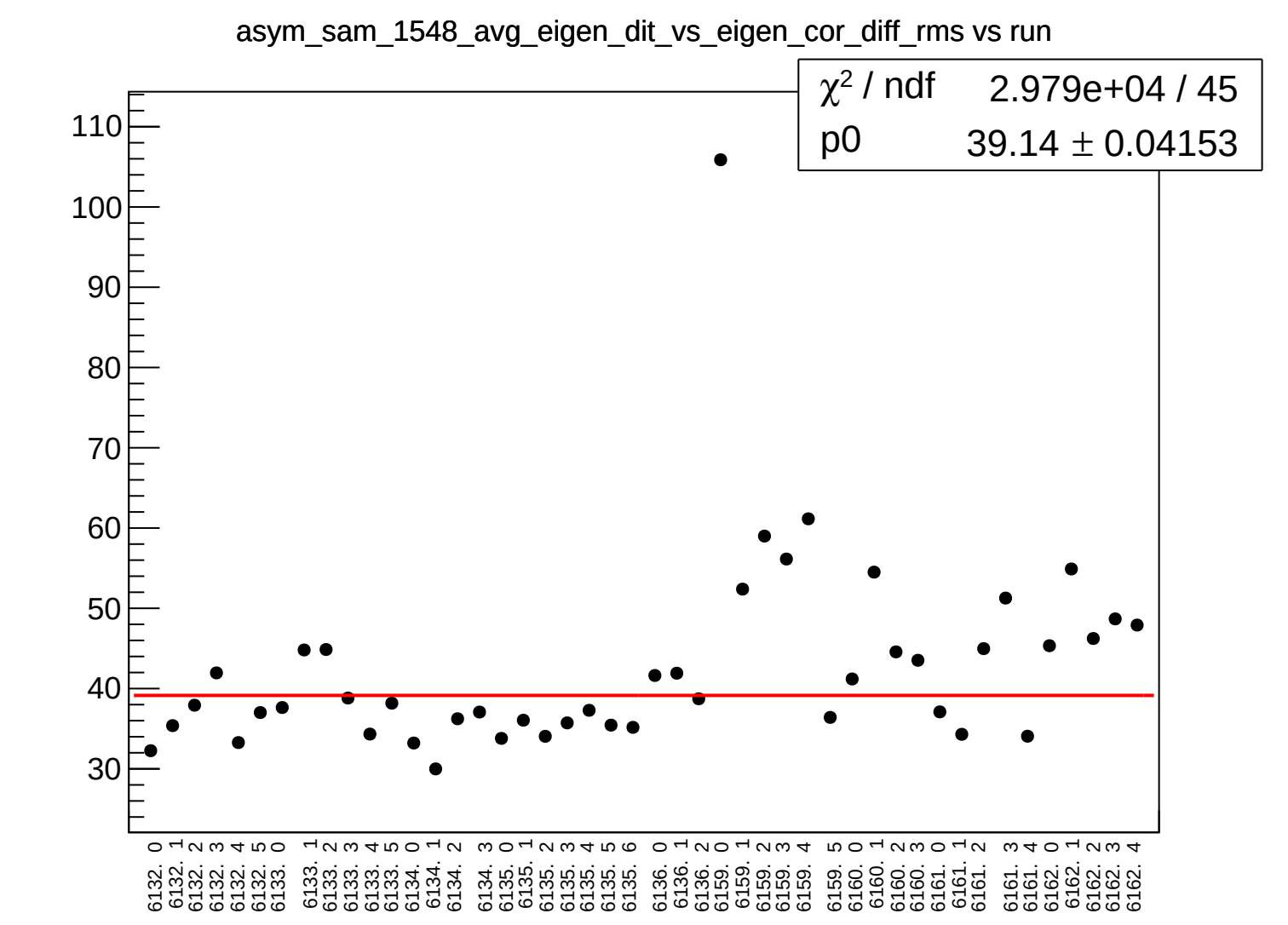

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.065e+05 / 45
p0 0.002215 ± 2.458e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

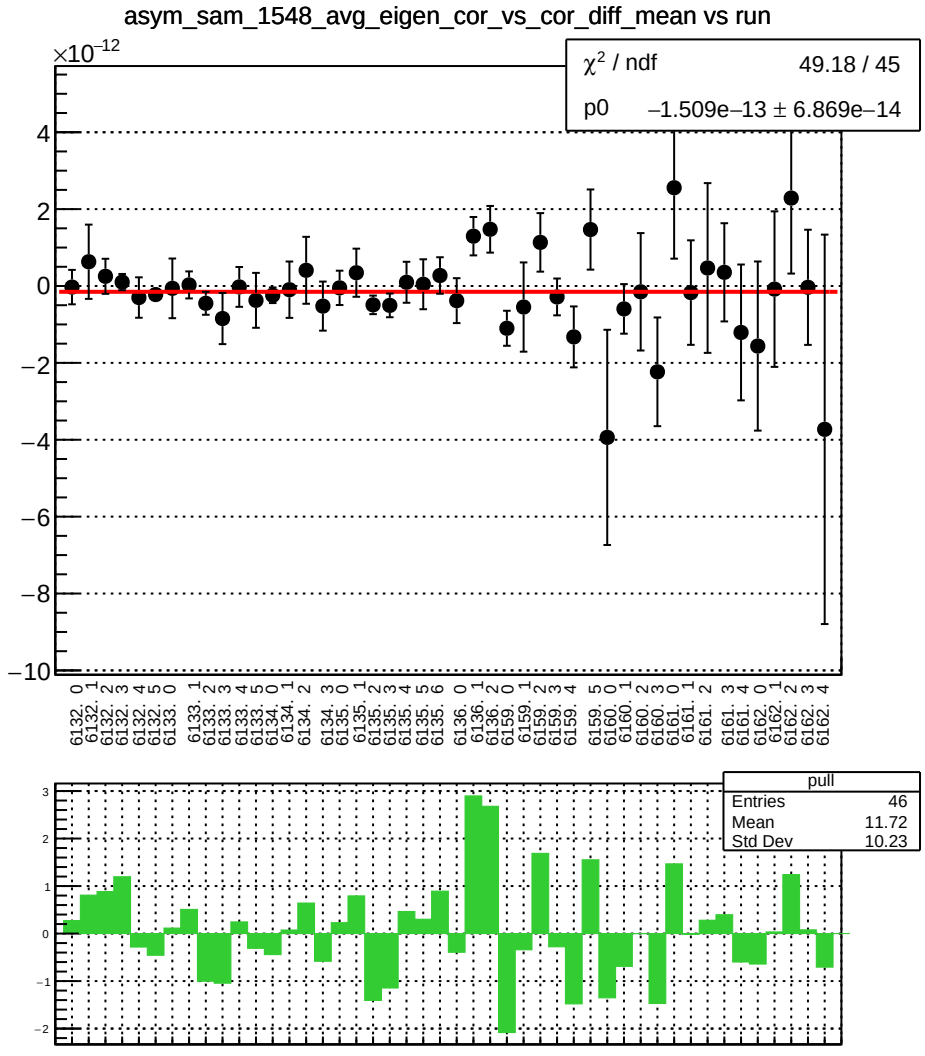

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 50.84 / 45
p0 0.01221 ± 0.05873
pull
Entries 46
Mean 242.8
Std Dev 0

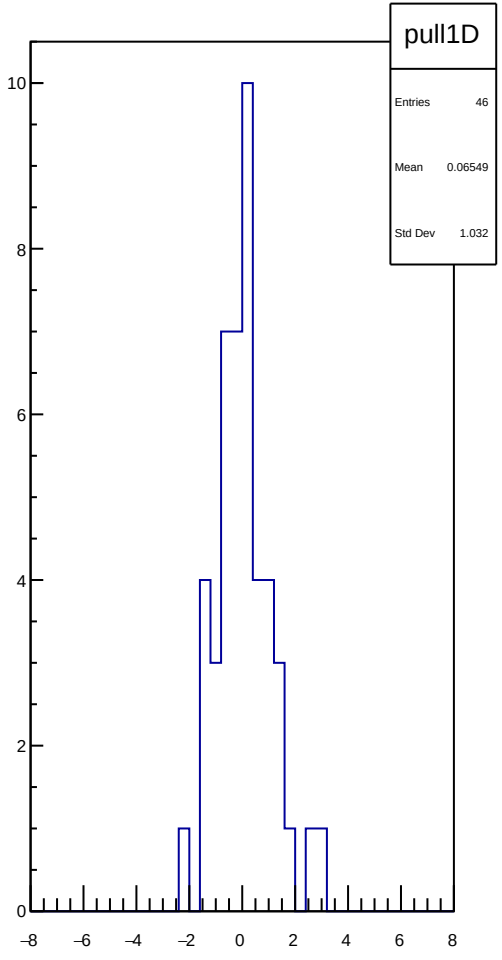

pull1D
Entries 46
Mean 0.01825
Std Dev 1.051

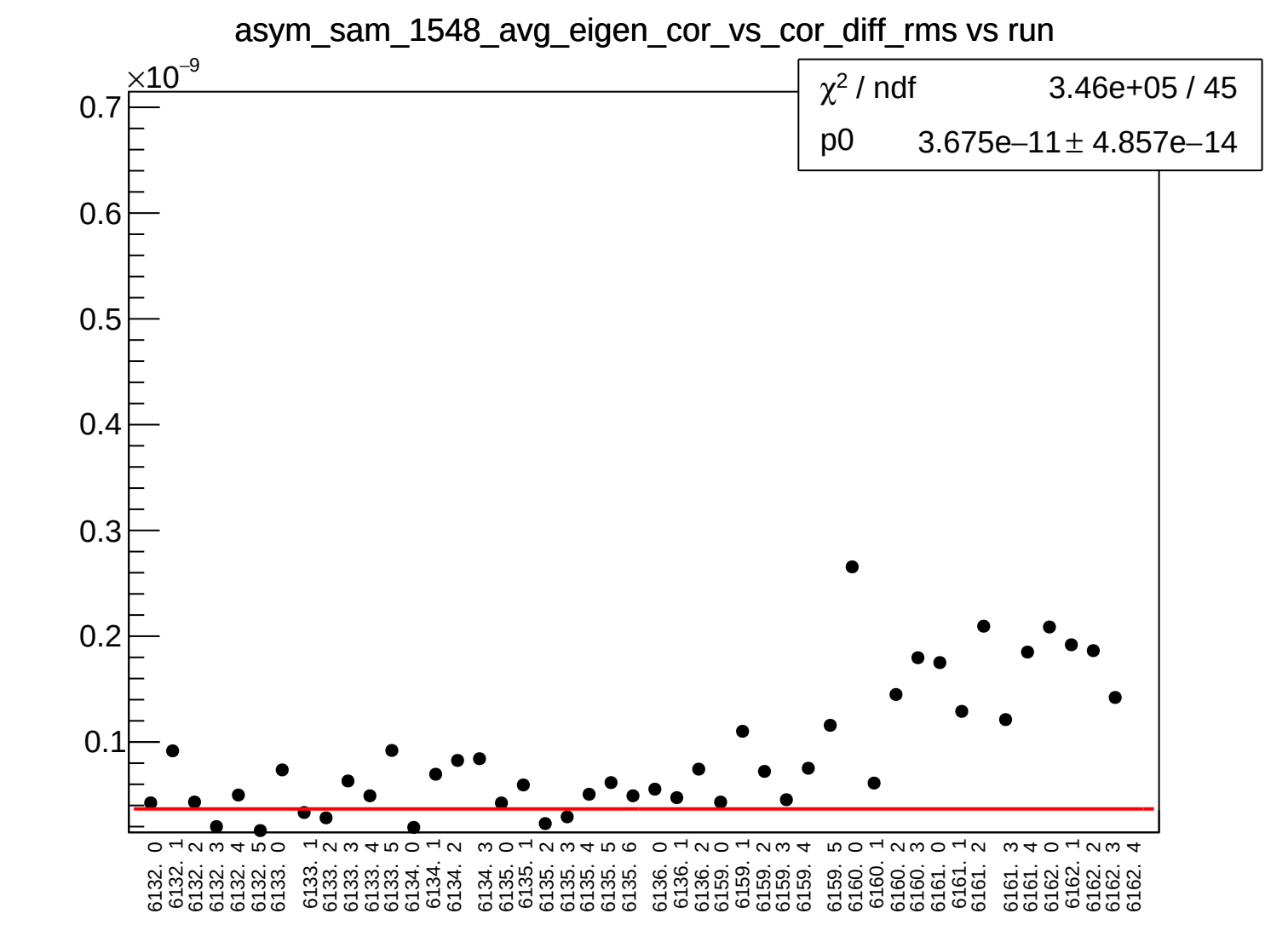

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.979e+04 / 45
p0 39.14 ± 0.04153
110
100
90
80
70
60
50
40
30
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

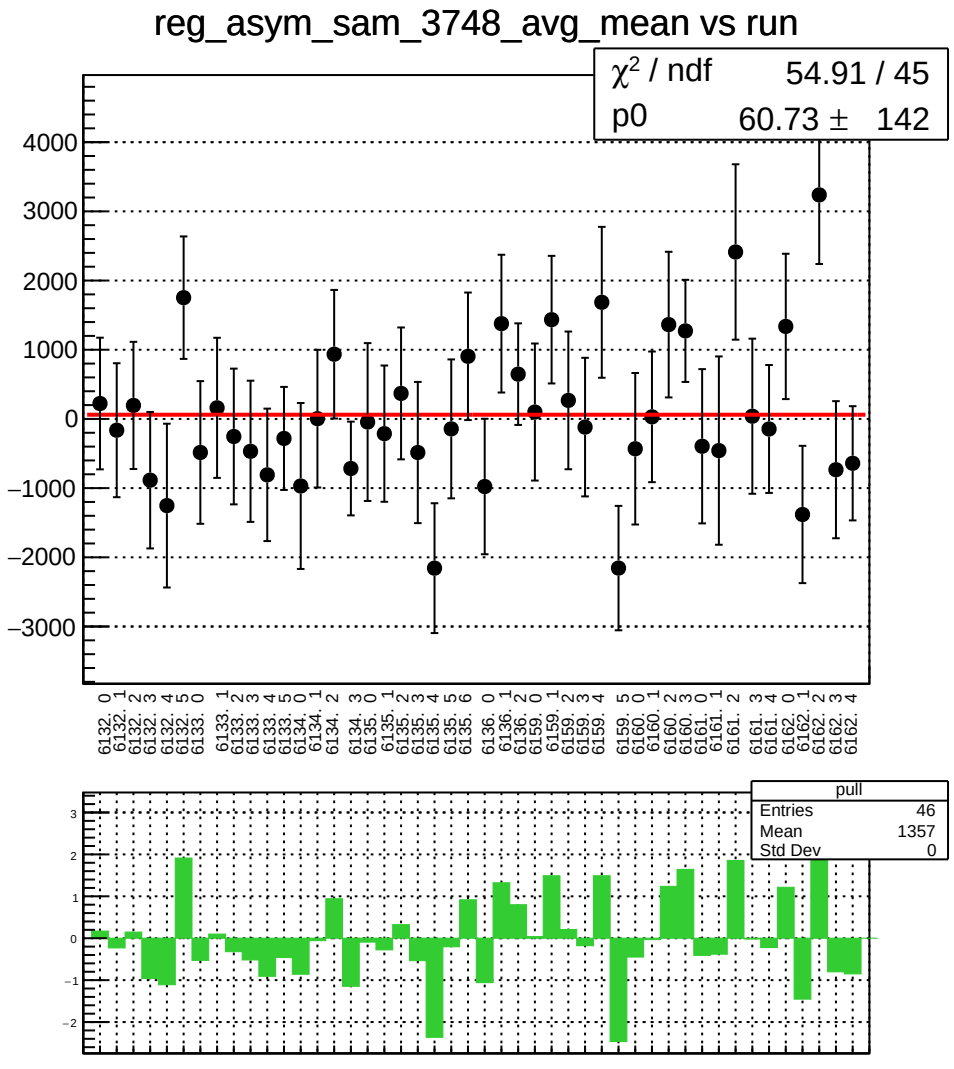

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.84 / 45
p0 0.01221 ± 0.05873
pull
Entries 46
Mean 242.8
Std Dev 0
pull1D
Entries 46
Mean 0.01825
Std Dev 1.051

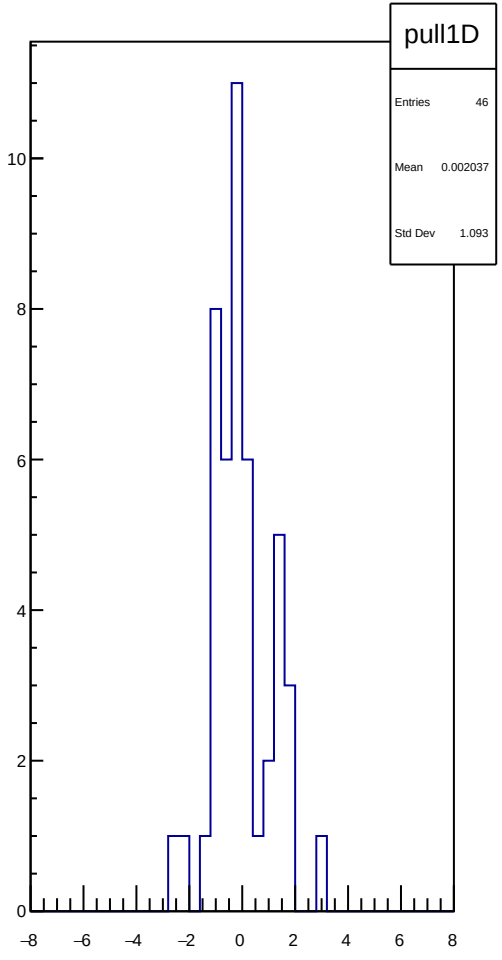

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.979e+04 / 45
p0 39.14 ± 0.04153
110
100
90
80
70
60
50
40
30
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

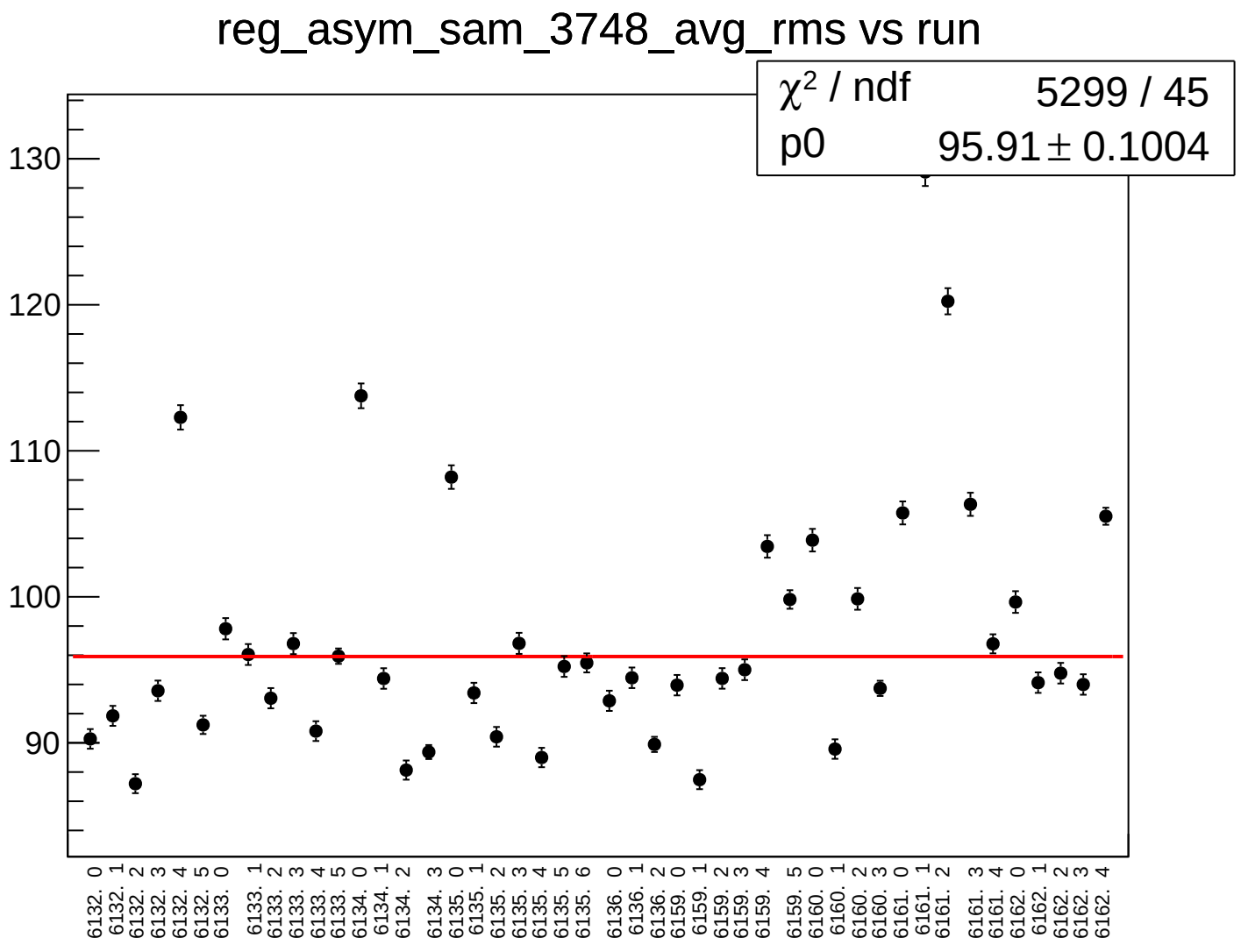

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 49.18 / 45
p0 −1.509e−13 ± 6.869e−14
pull
Entries 46
Mean 11.72
Std Dev 10.23

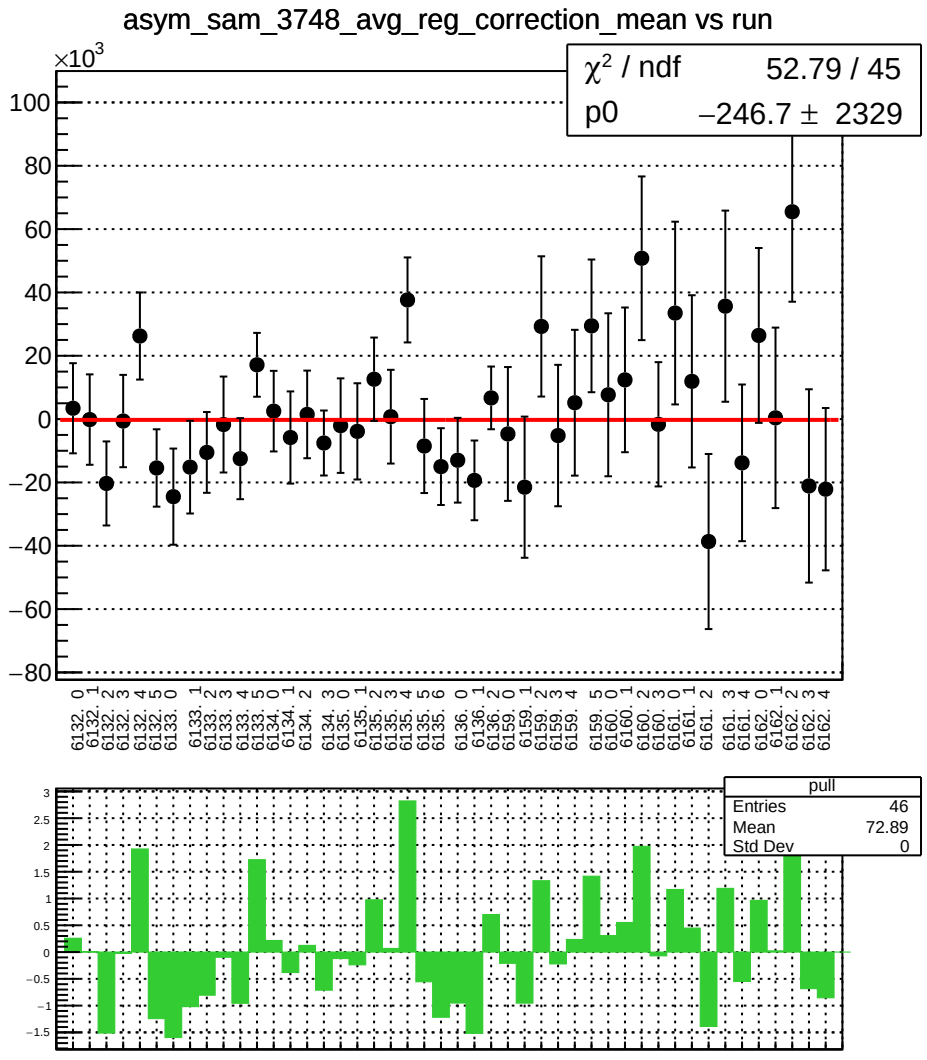

pull1D
Entries 46
Mean 0.06549
Std Dev 1.032

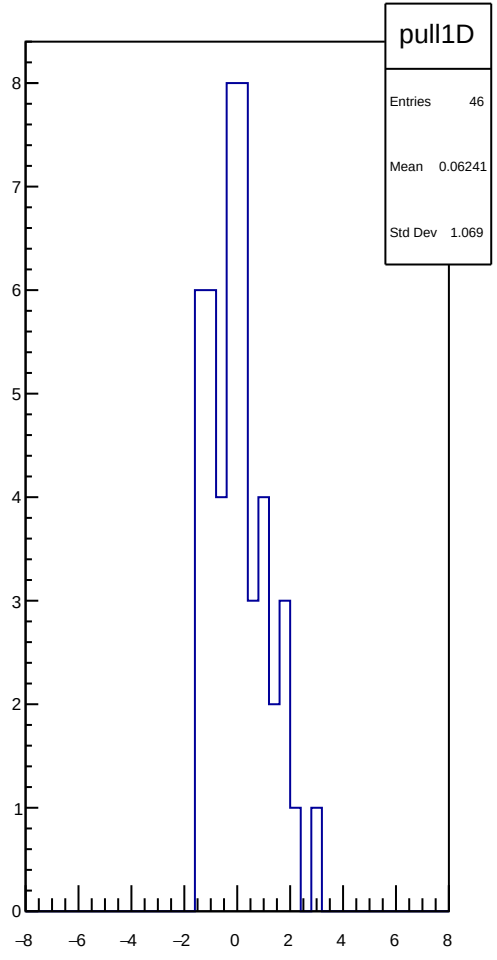

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.46e+05 / 45
p0 3.675e−11 ± 4.857e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

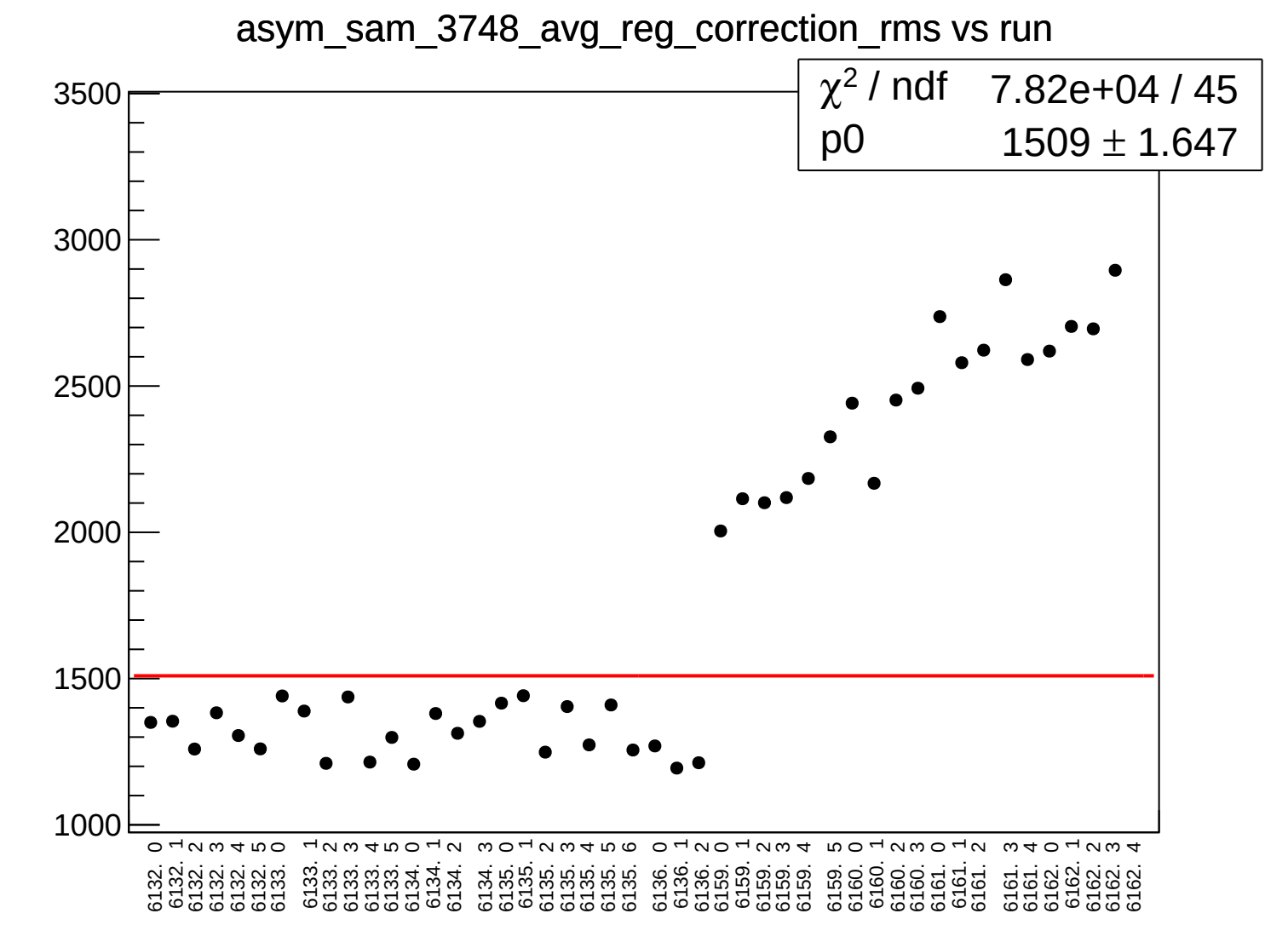

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 54.91 / 45
p0 60.73 ± 142
4000
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 1357
Std Dev 0
3
2
1
0
−1
−2

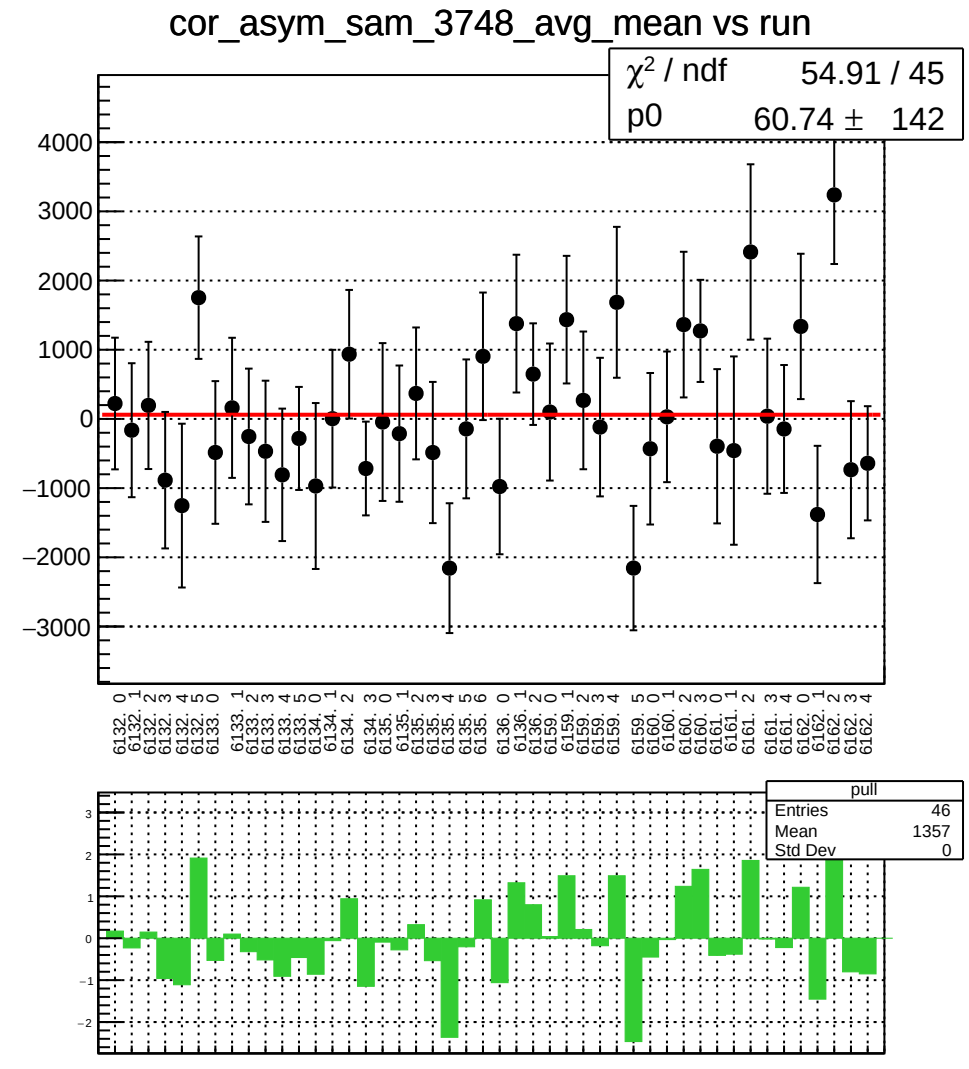

pull1D
Entries 46
Mean 0.002037
Std Dev 1.093
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

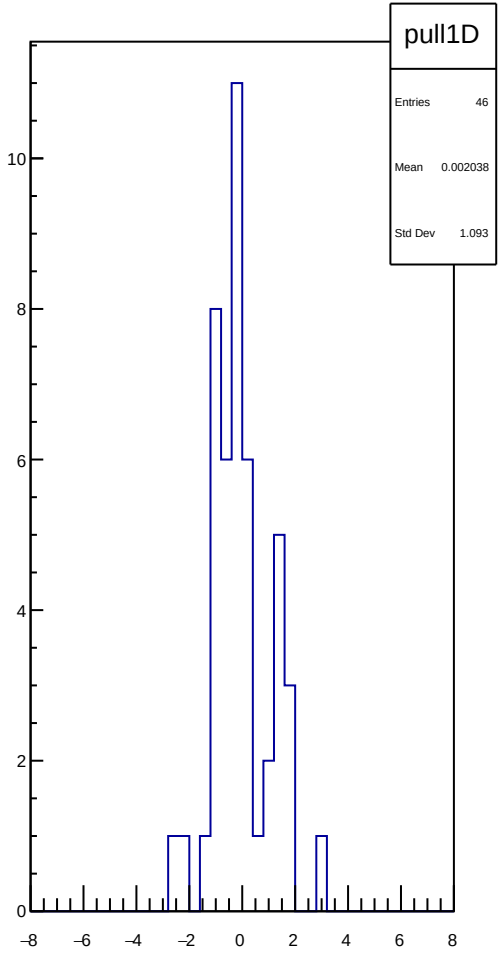

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 5299 / 45
p0 95.91 ± 0.1004
130
120
110
100
90
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

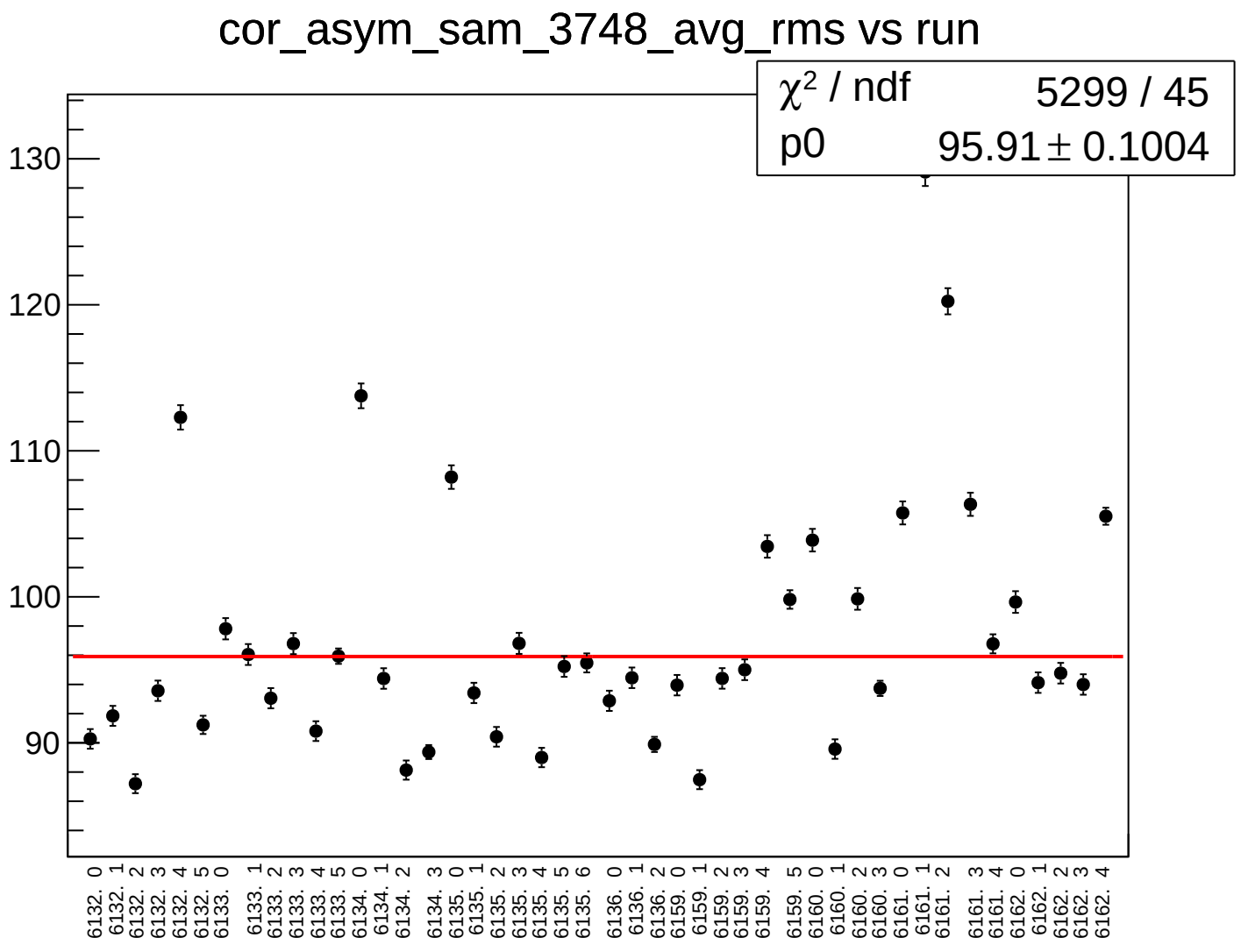

asym_sam_3748_avg_reg_correction_mean vs run
×10^3
χ² / ndf 52.79 / 45
p0 −246.7 ± 2329
pull
Entries 46
Mean 72.89
Std Dev 0

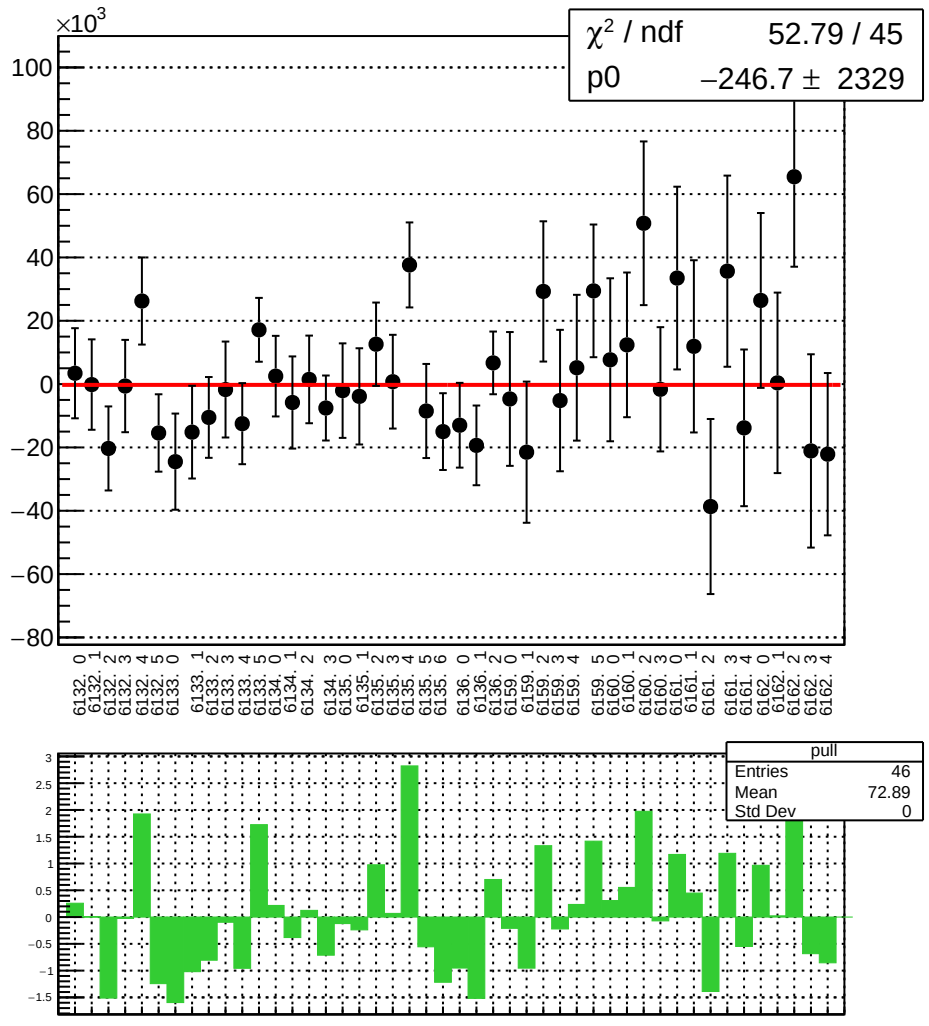

pull1D
Entries 46
Mean 0.06241
Std Dev 1.069

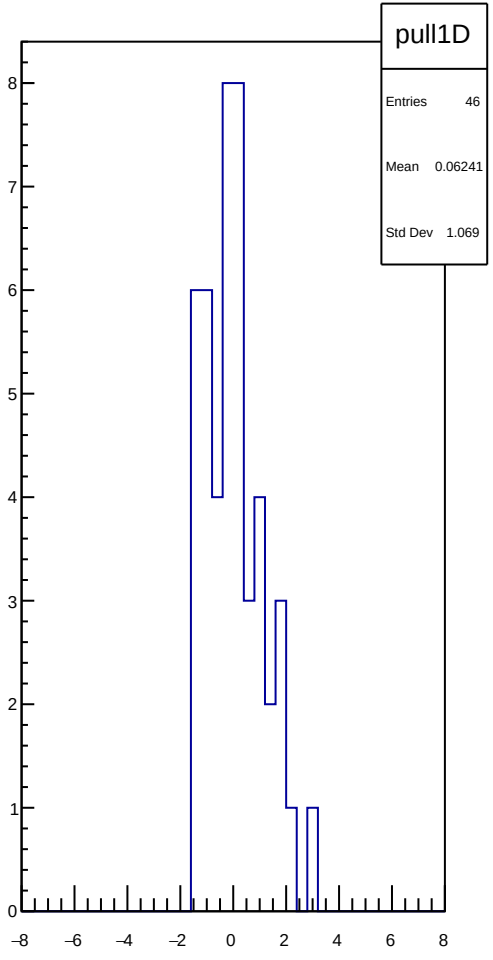

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 7.82e+04 / 45
p0 1509 ± 1.647
3500
3000
2500
2000
1500
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

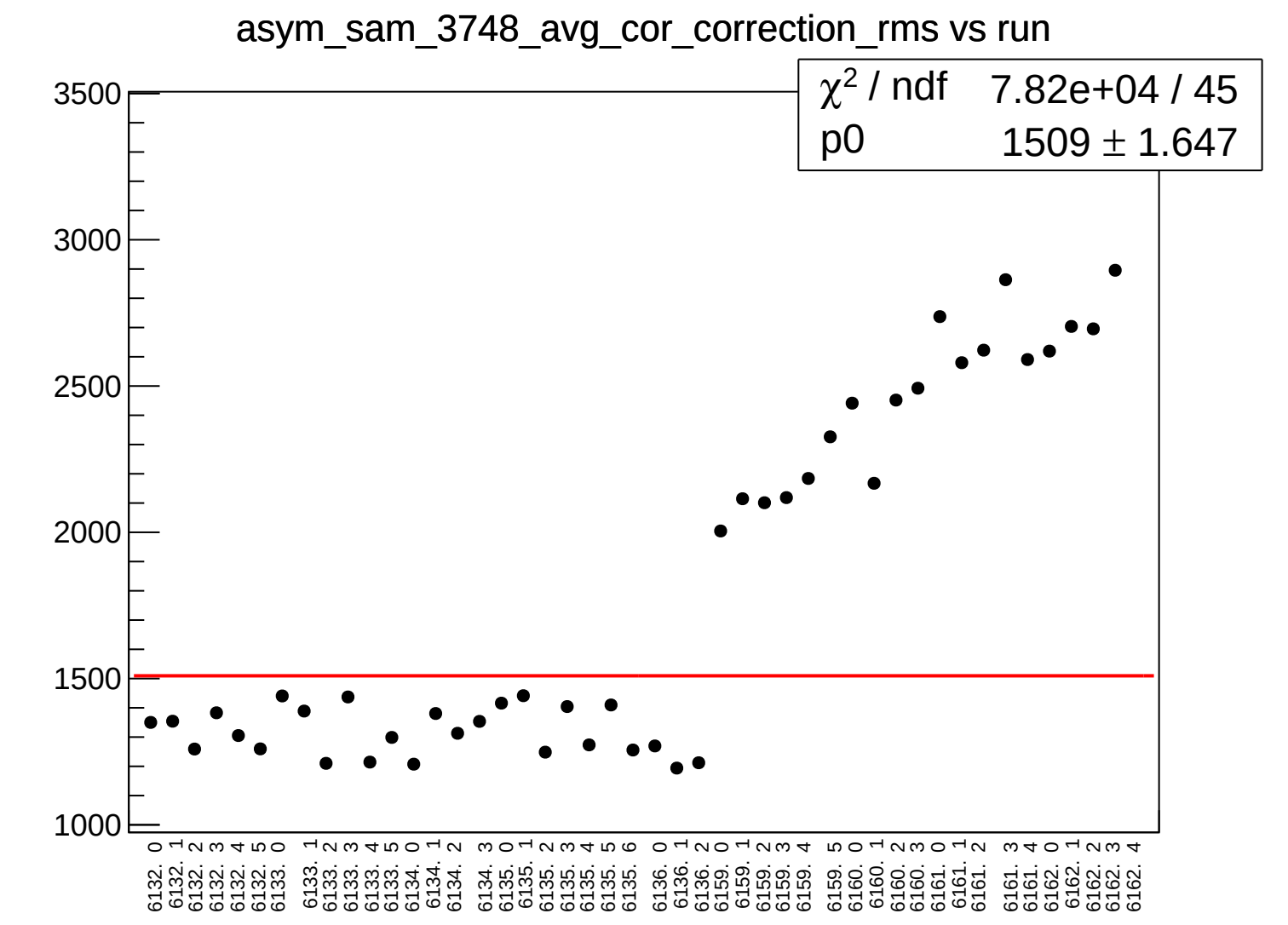

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 54.91 / 45
p0 60.74 ± 142
4000
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 1357
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.002038
Std Dev 1.093
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_3748_avg_rms vs run
χ² / ndf 5299 / 45
p0 95.91 ± 0.1004
130
120
110
100
90
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_3748_avg_cor_correction_mean vs run
×10^3
χ² / ndf 52.79 / 45
p0 −246.7 ± 2329
pull
Entries 46
Mean 72.89
Std Dev 0


pull1D
Entries 46
Mean 0.06241
Std Dev 1.069


asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 7.82e+04 / 45
p0 1509 ± 1.647
3500
3000
2500
2000
1500
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 3
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6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
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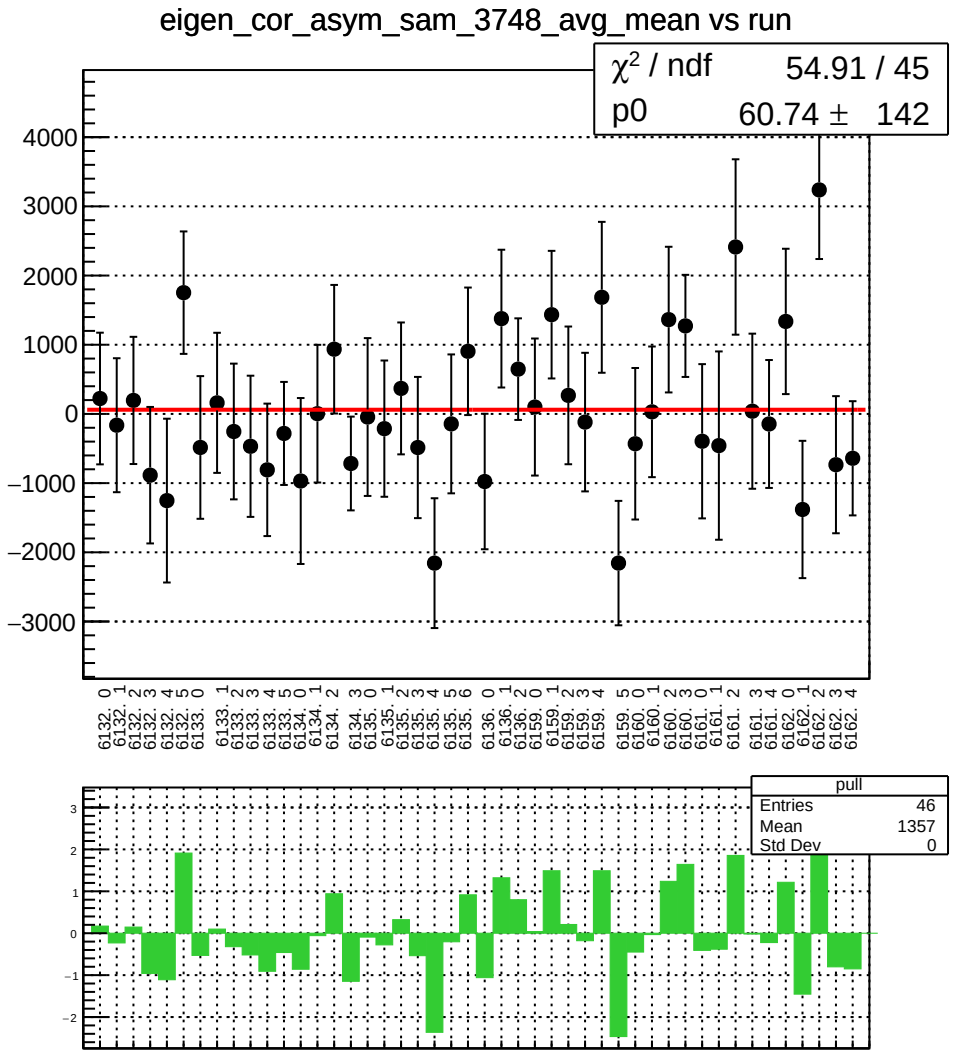
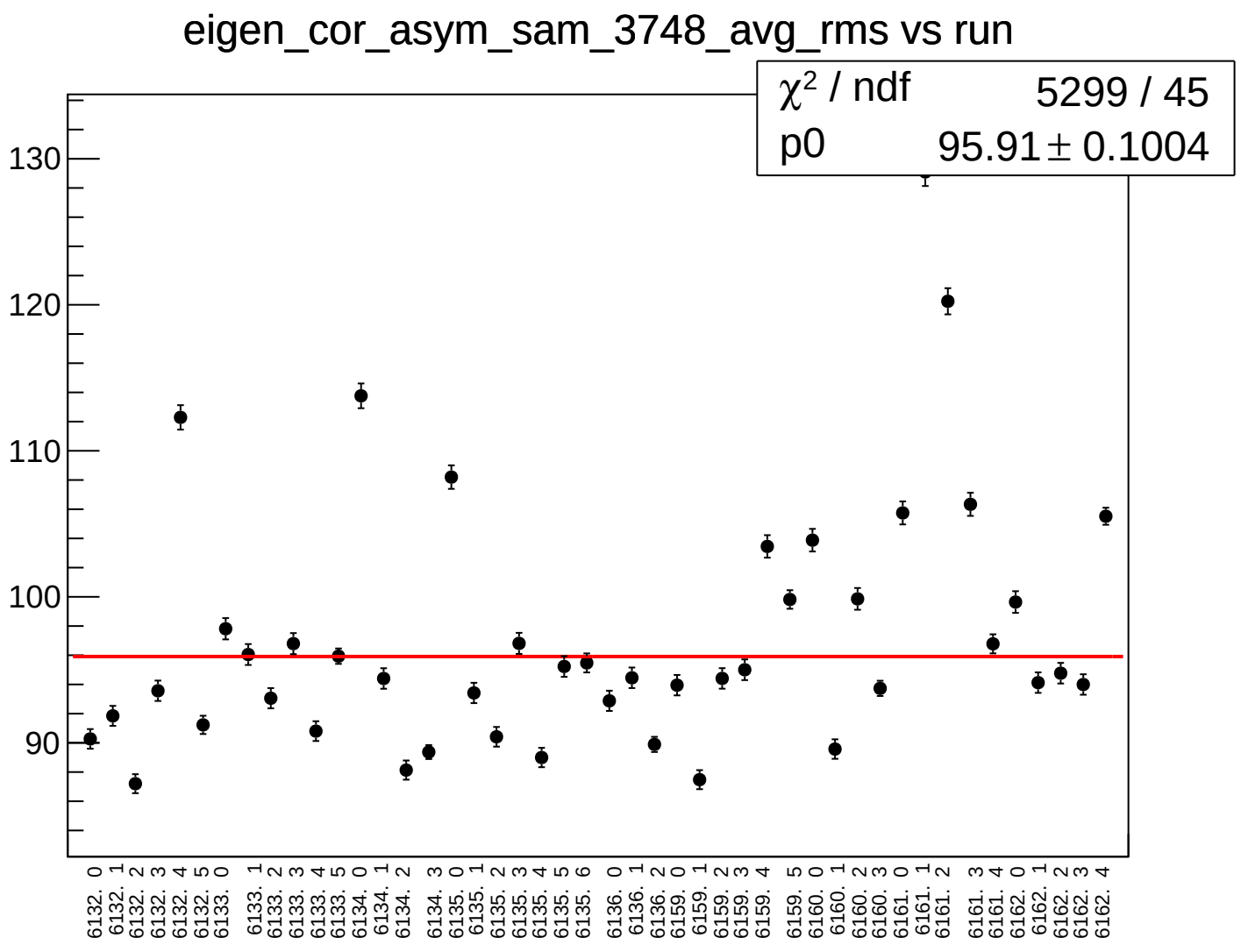
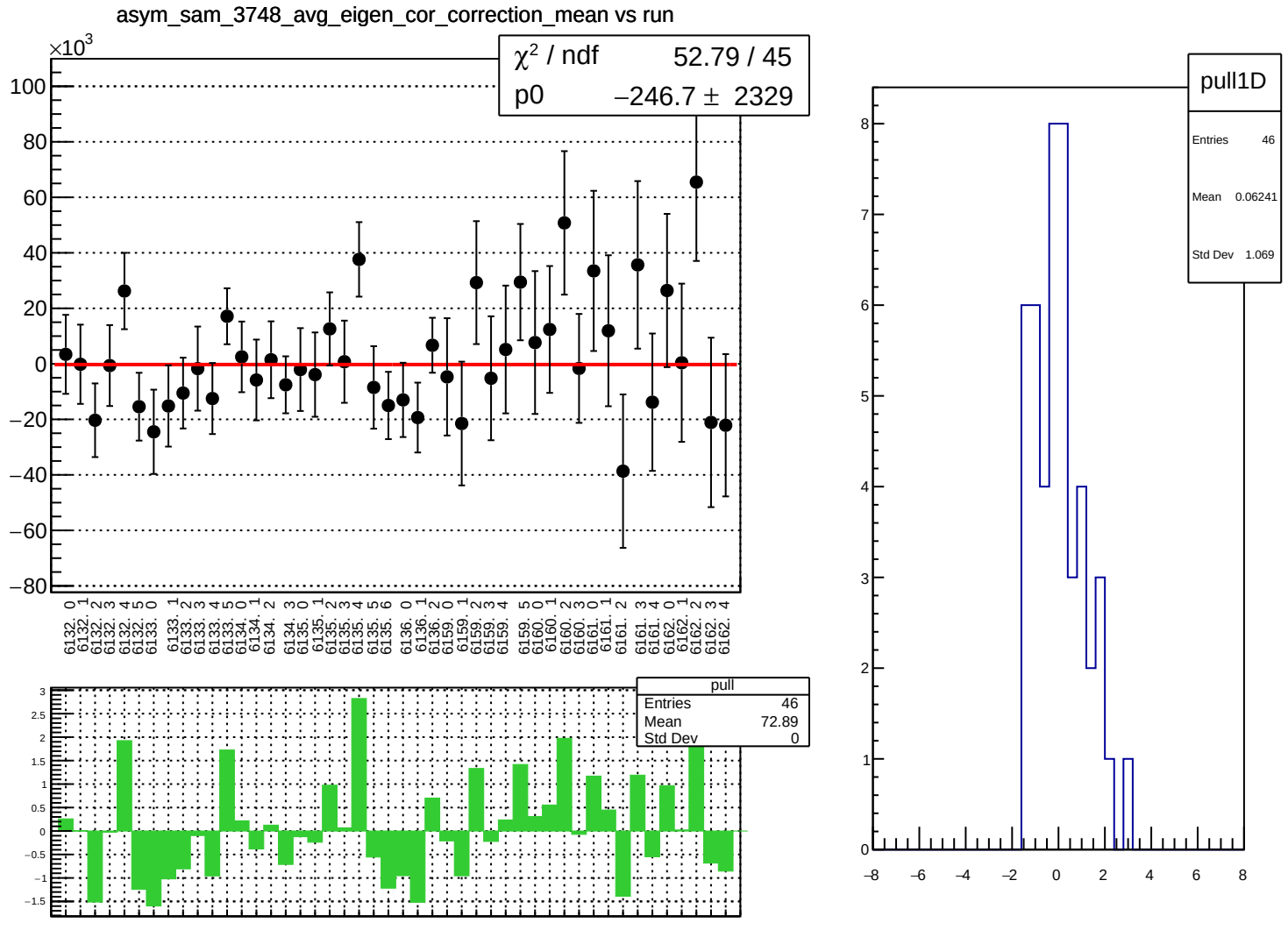
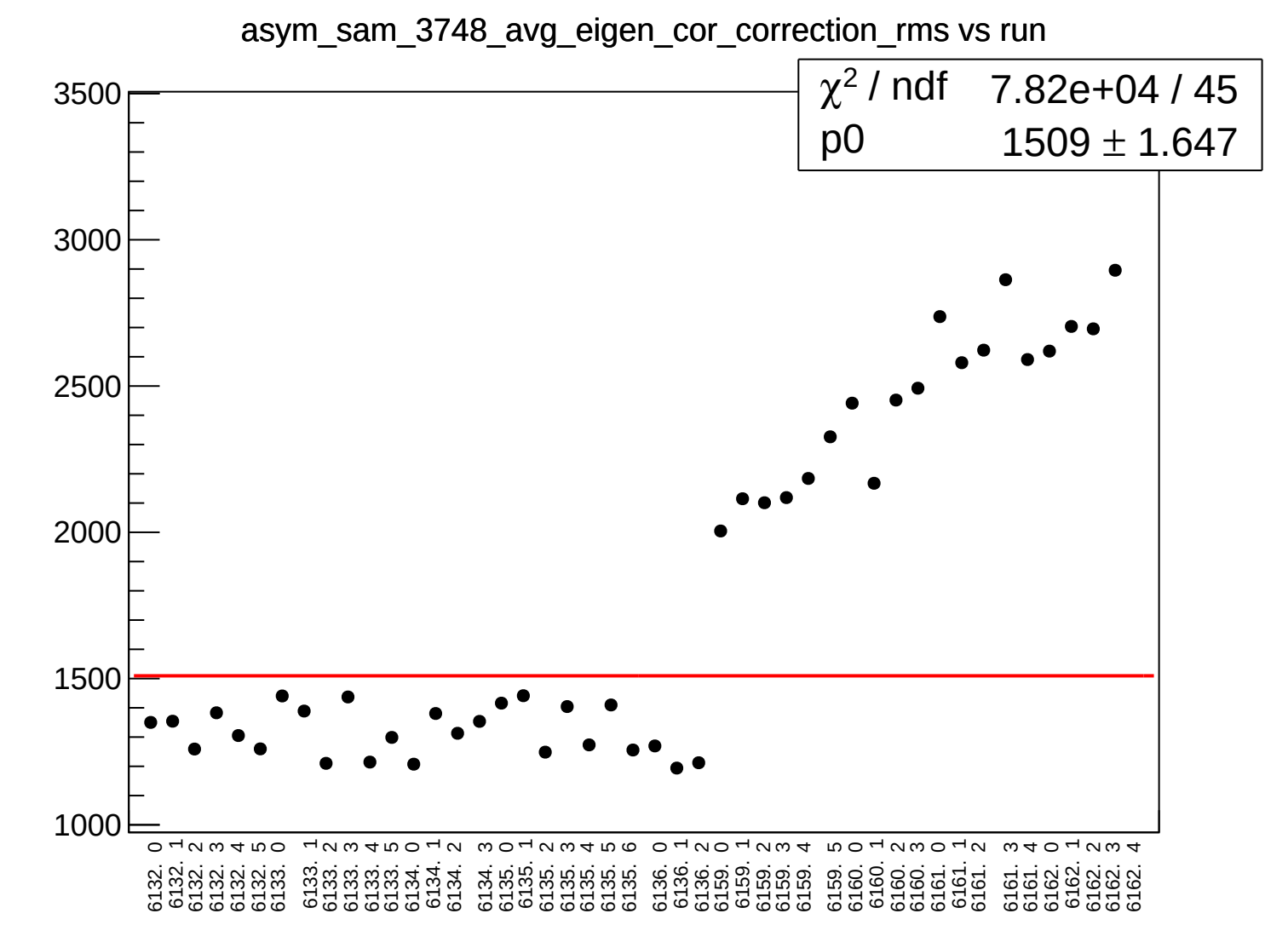
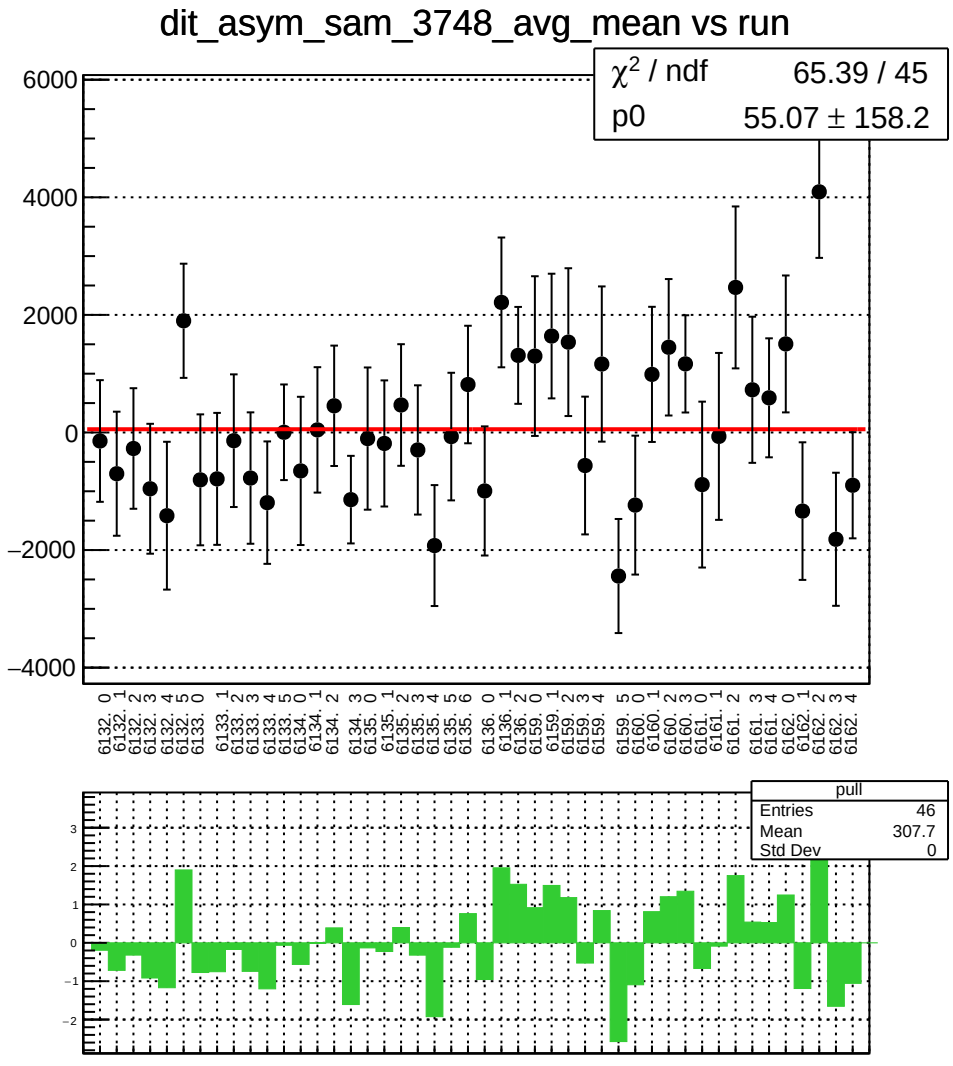
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

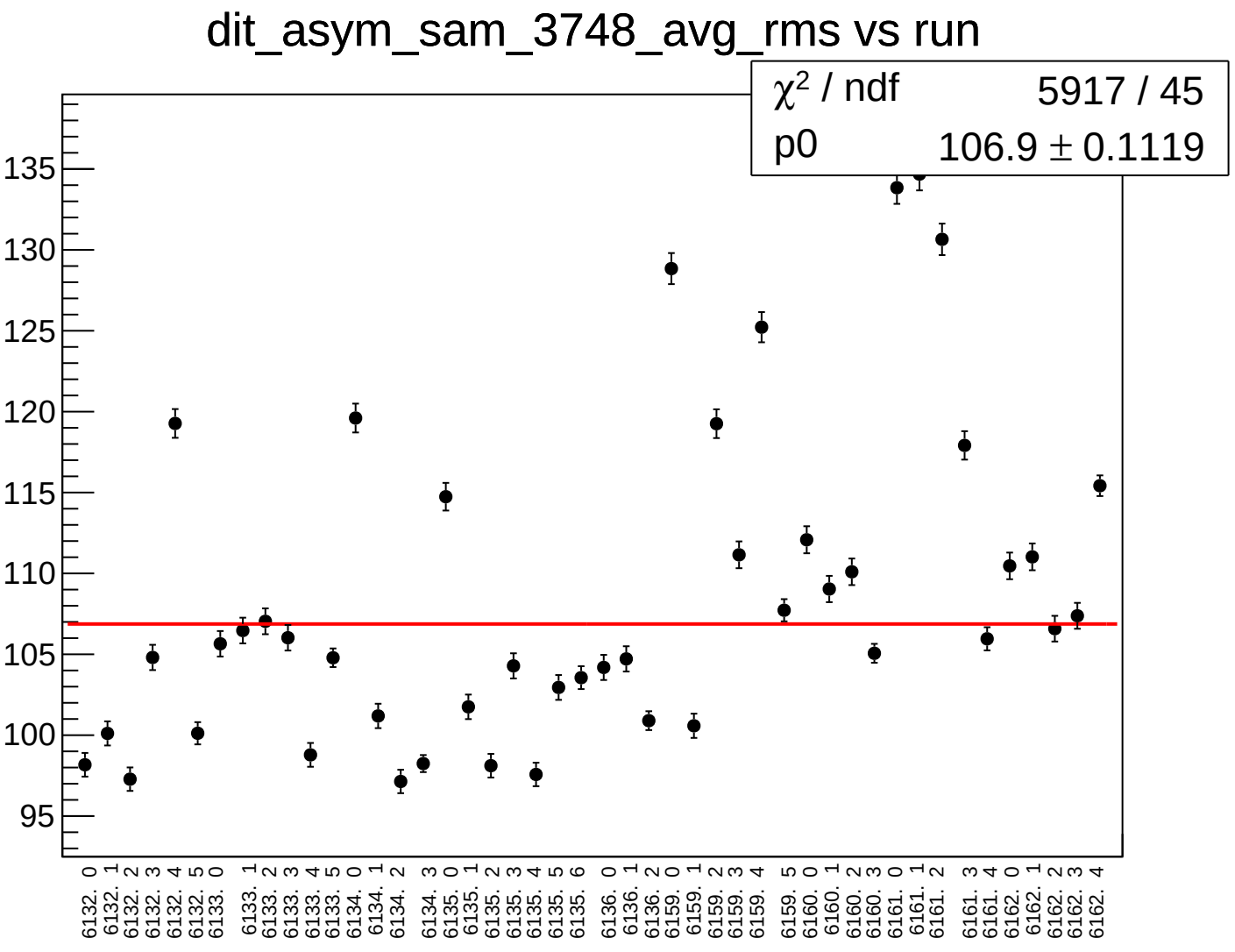

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 54.91 / 45
p0 60.74 ± 142
4000
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 1357
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.002038
Std Dev 1.093
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

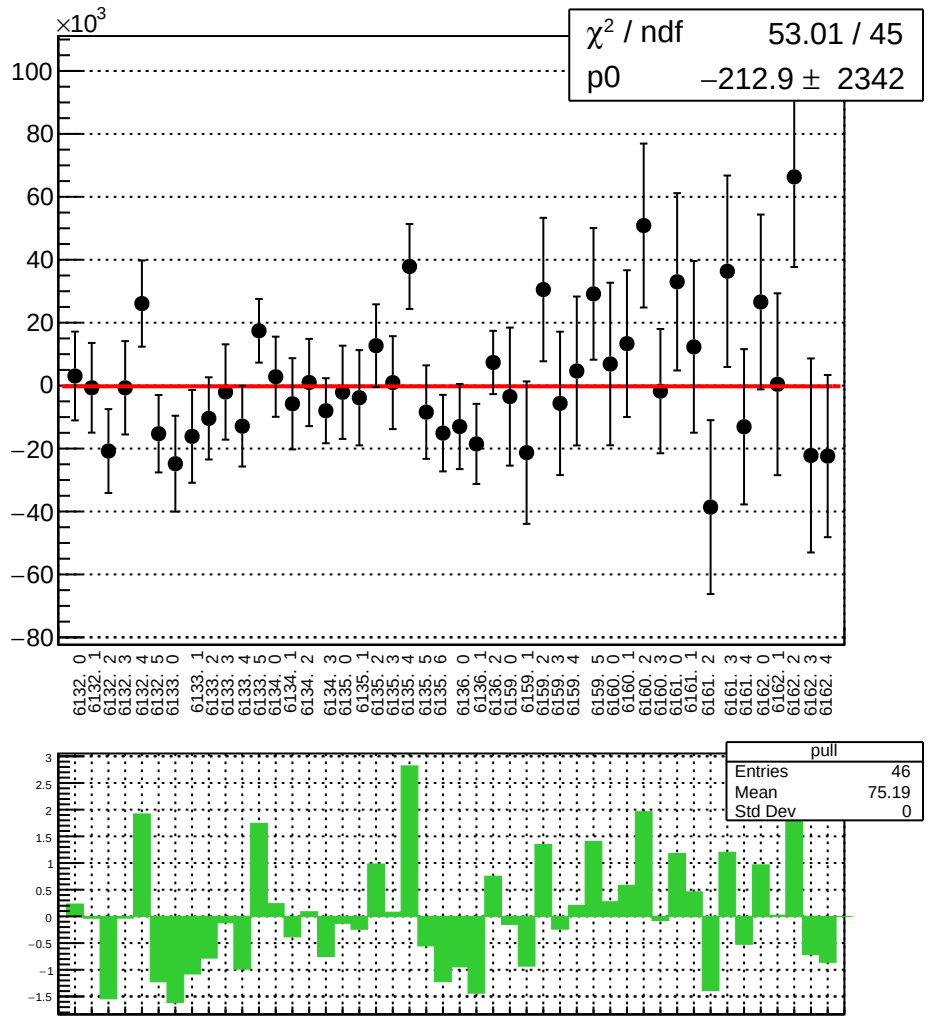

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 5299 / 45
p0 95.91 ± 0.1004
130
120
110
100
90
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

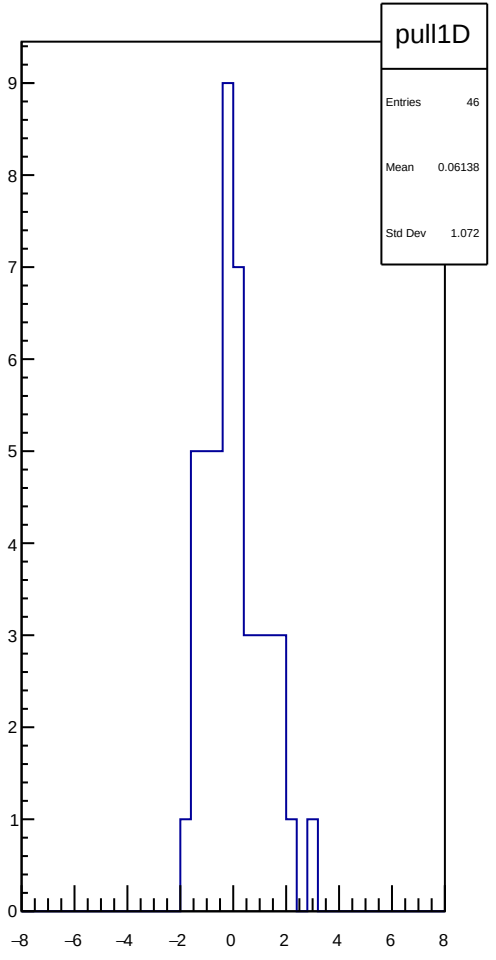

asym_sam_3748_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 52.79 / 45
p0 −246.7 ± 2329
pull
Entries 46
Mean 72.89
Std Dev 0
pull1D
Entries 46
Mean 0.06241
Std Dev 1.069

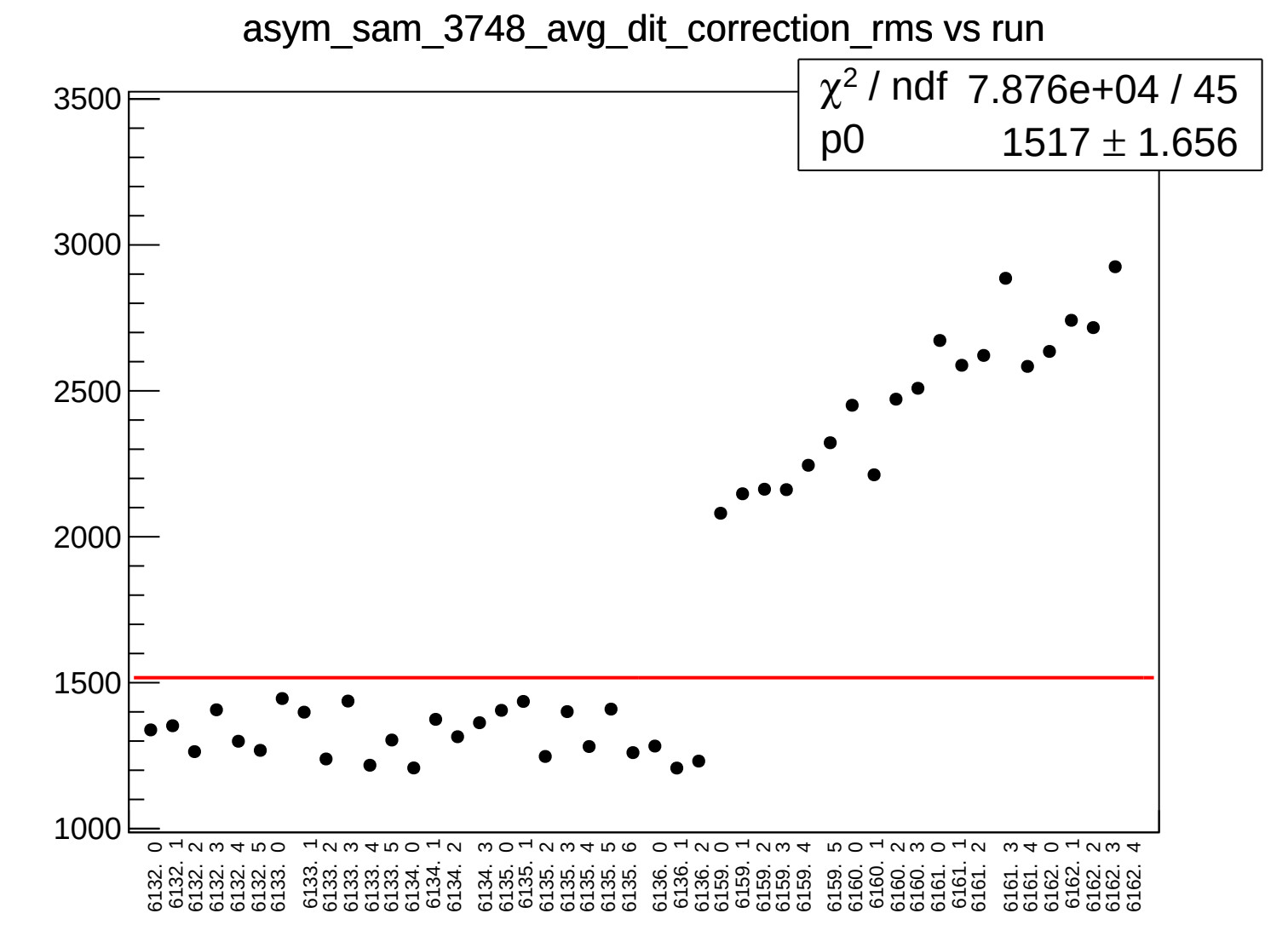

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 7.82e+04 / 45
p0 1509 ± 1.647
3500
3000
2500
2000
1500
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

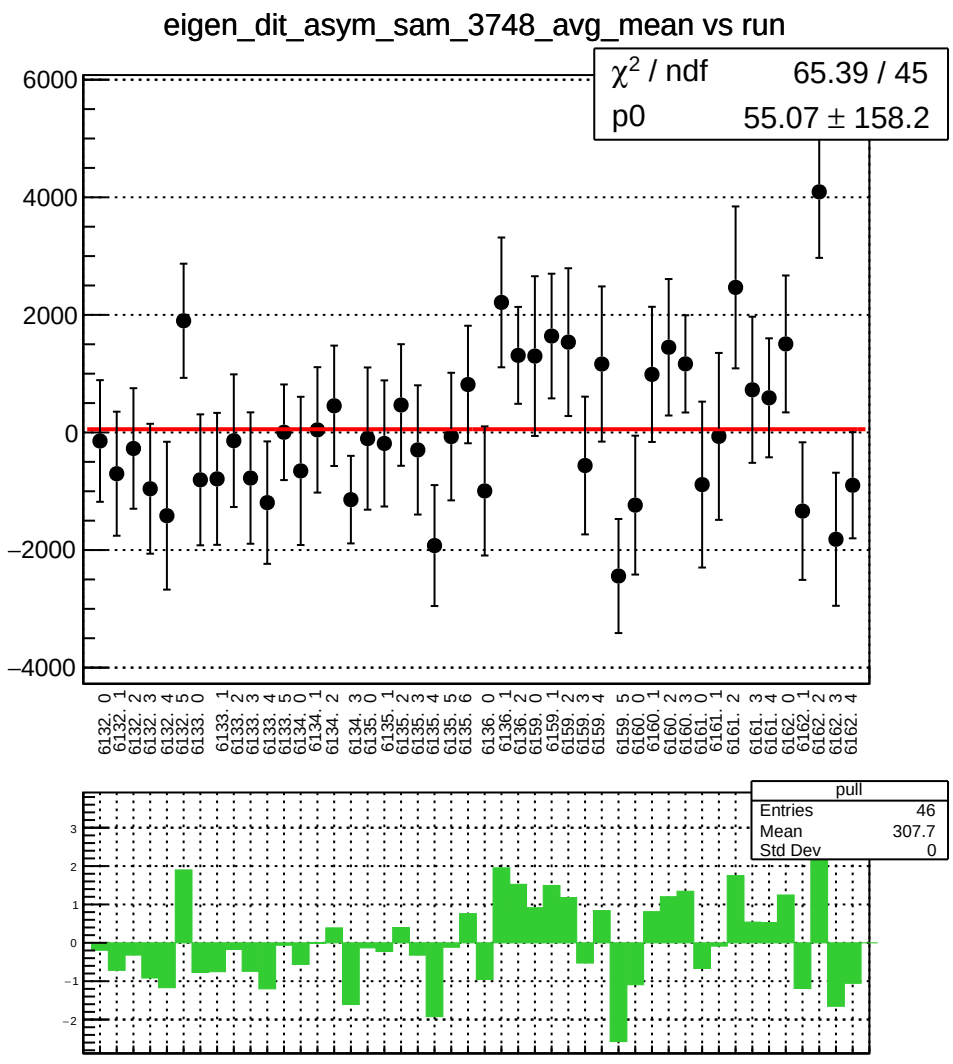

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 65.39 / 45
p0 55.07 ± 158.2
6000
4000
2000
0
−2000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 307.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.01434
Std Dev 1.192
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

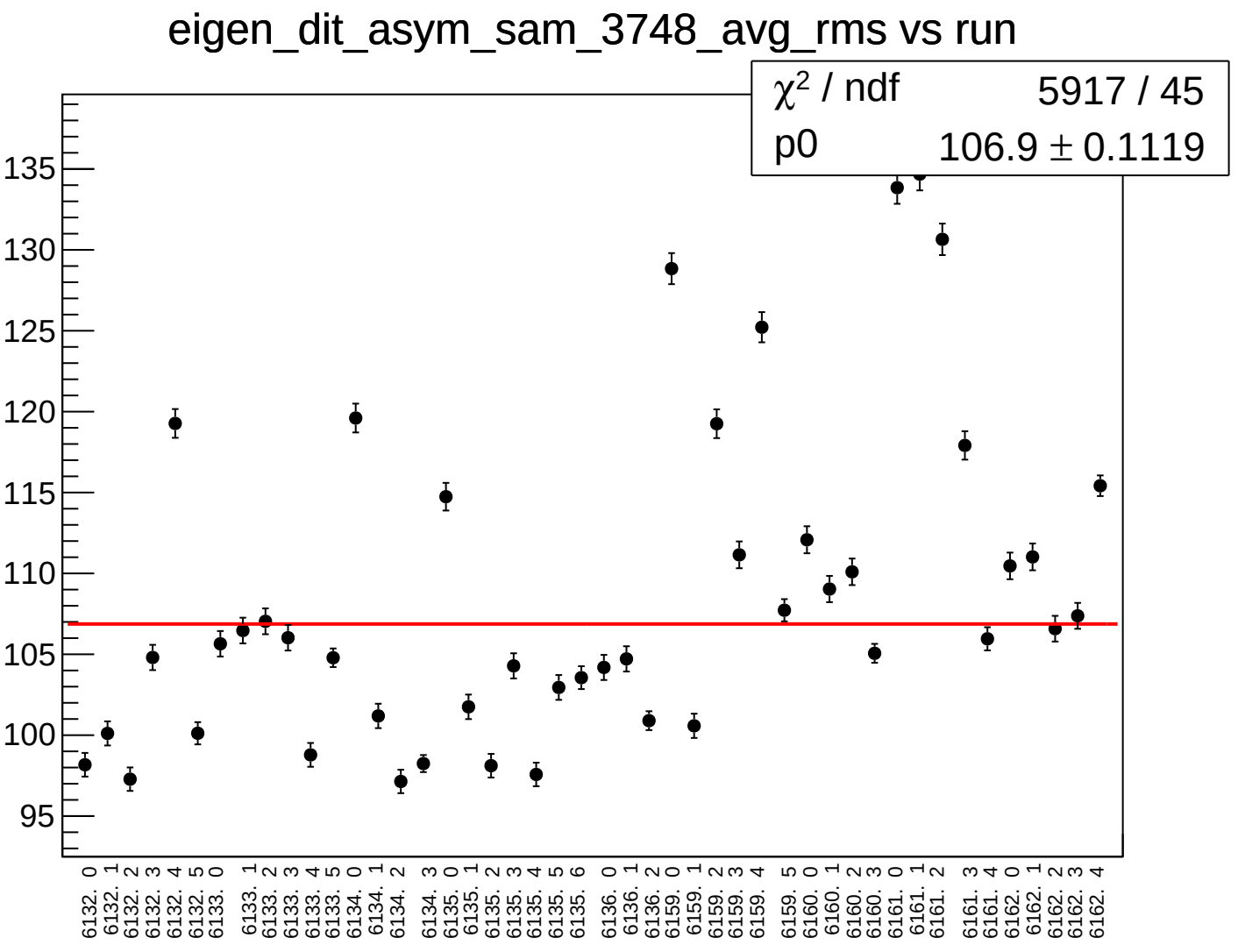

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 5917 / 45
p0 106.9 ± 0.1119
135
130
125
120
115
110
105
100
95
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

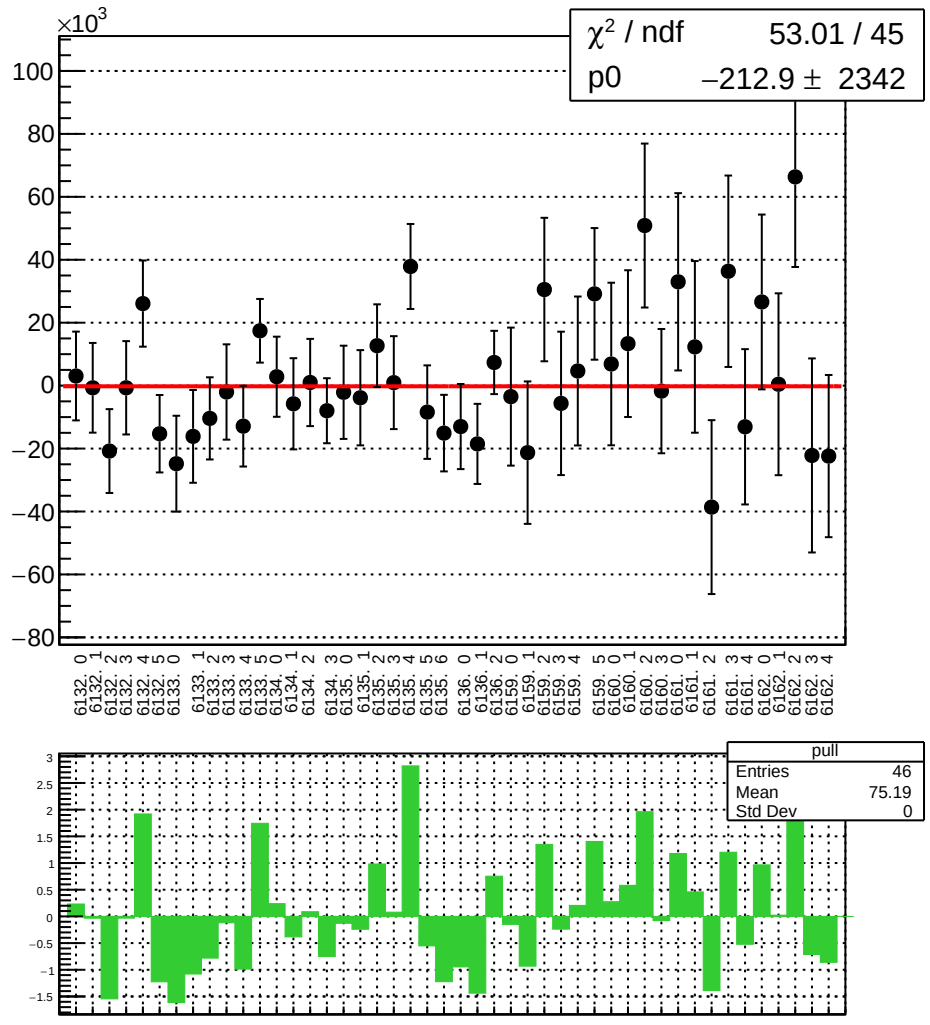

asym_sam_3748_avg_dit_correction_mean vs run
×10^3
χ² / ndf 53.01 / 45
p0 −212.9 ± 2342
pull
Entries 46
Mean 75.19
Std Dev 0

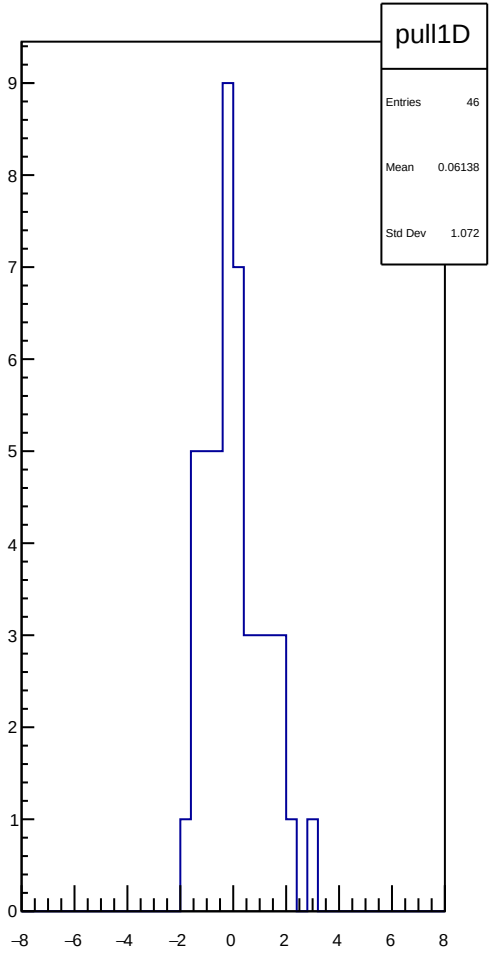

pull1D
Entries 46
Mean 0.06138
Std Dev 1.072

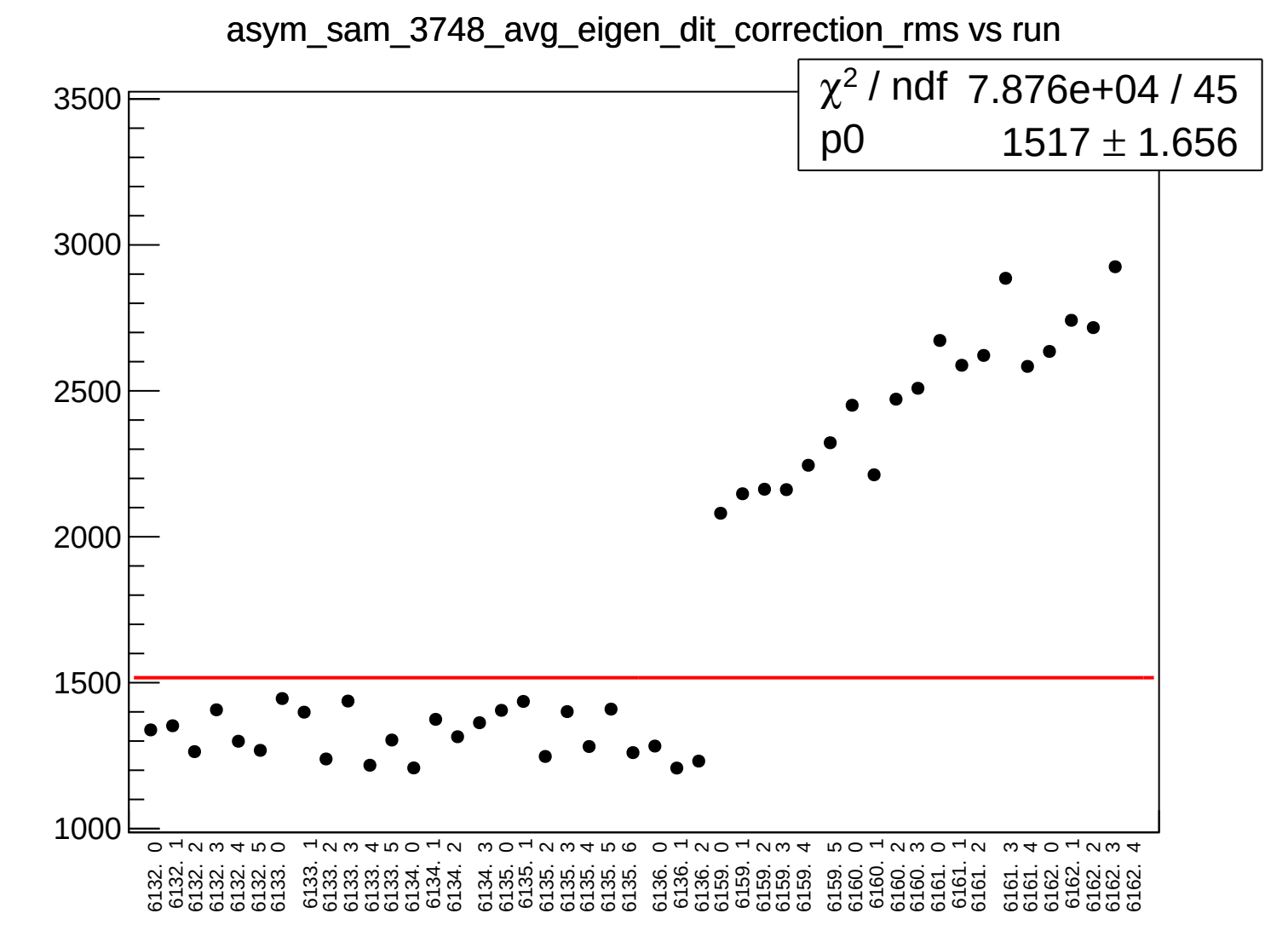

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 7.876e+04 / 45
p0 1517 ± 1.656
3500
3000
2500
2000
1500
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 65.39 / 45
p0 55.07 ± 158.2
6000
4000
2000
0
−2000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 307.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.01433
Std Dev 1.192
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 5917 / 45
p0 106.9 ± 0.1119
135
130
125
120
115
110
105
100
95
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_3748_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 53.01 / 45
p0 −212.9 ± 2342
pull
Entries 46
Mean 75.19
Std Dev 0


pull1D
Entries 46
Mean 0.06138
Std Dev 1.072


asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 7.876e+04 / 45
p0 1517 ± 1.656
3500
3000
2500
2000
1500
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 1
6134. 2
6134. 3
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
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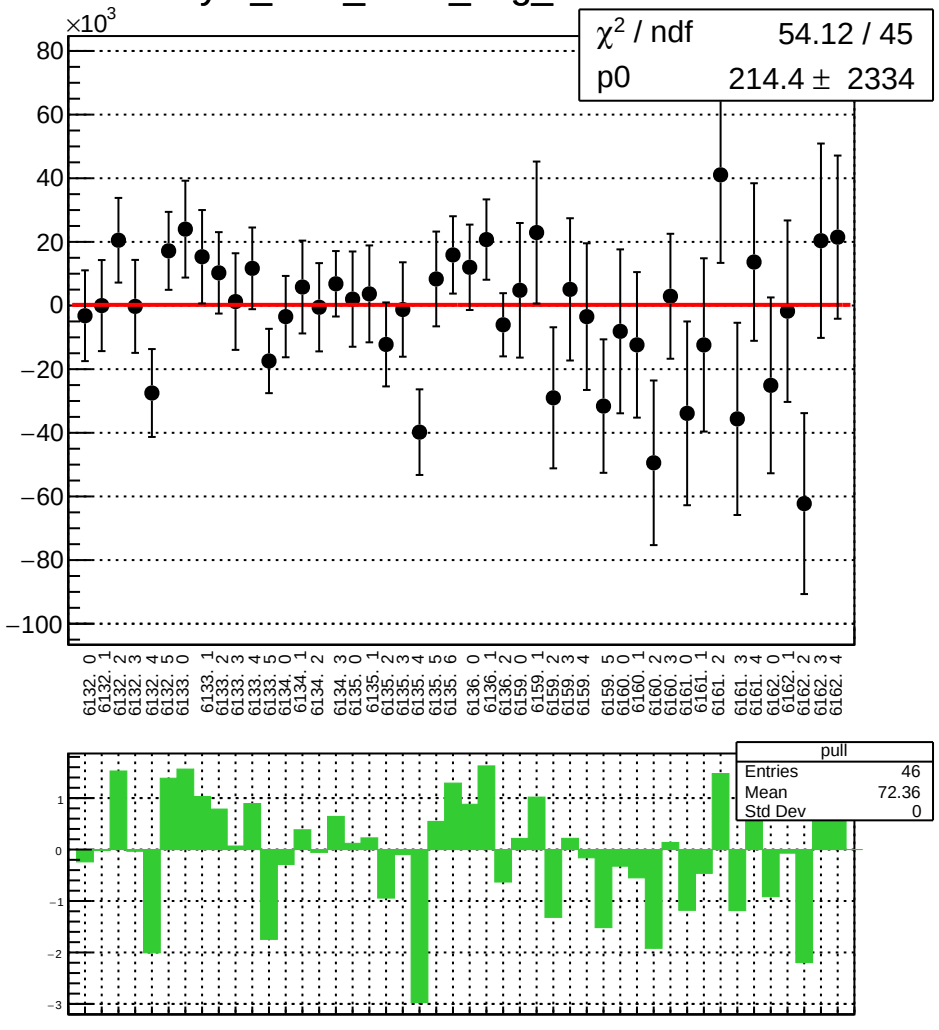
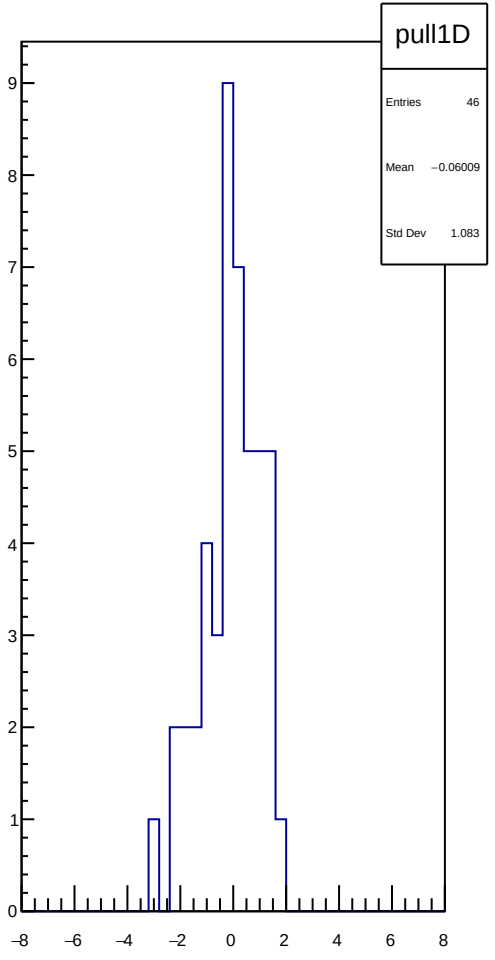
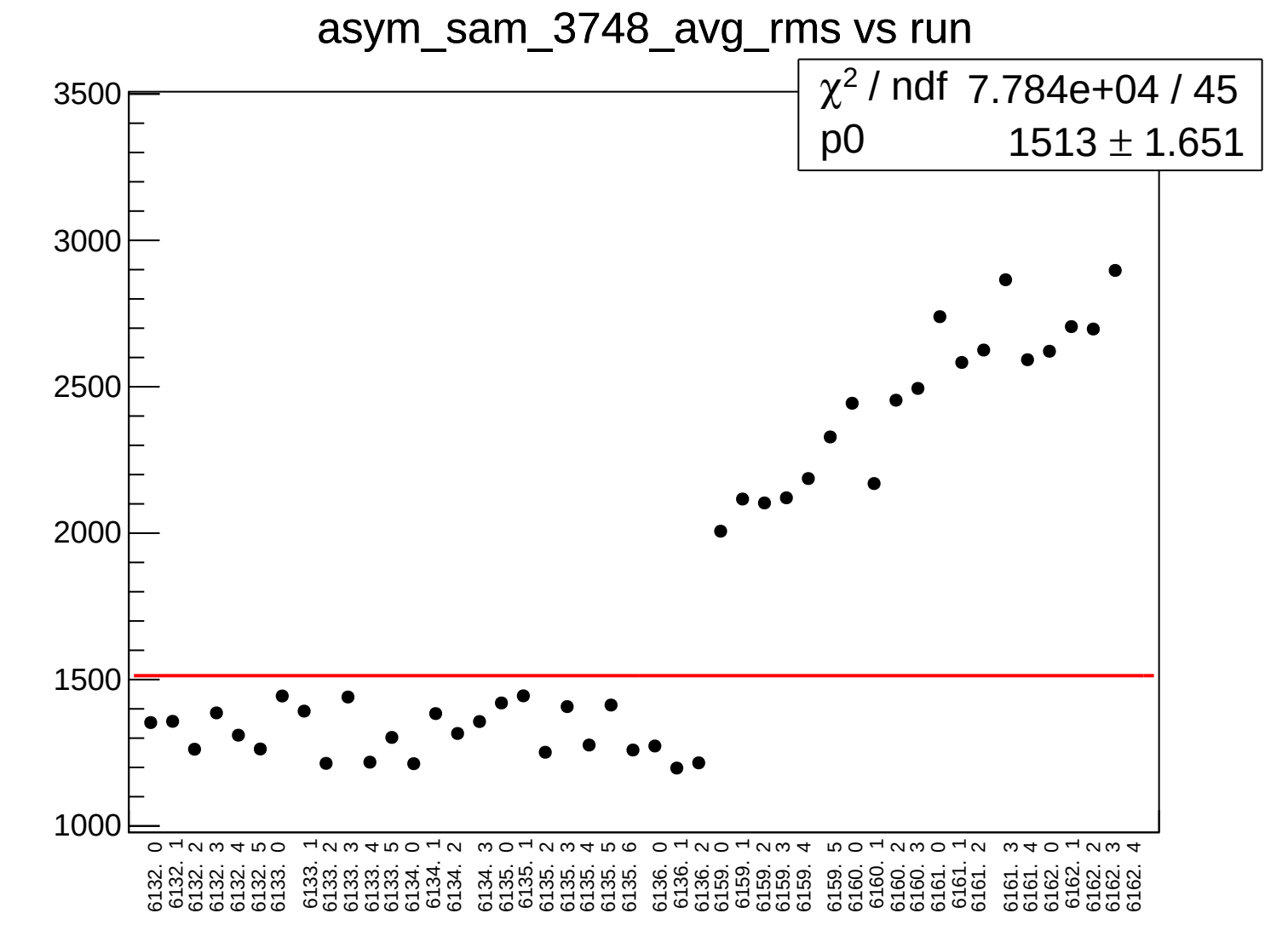
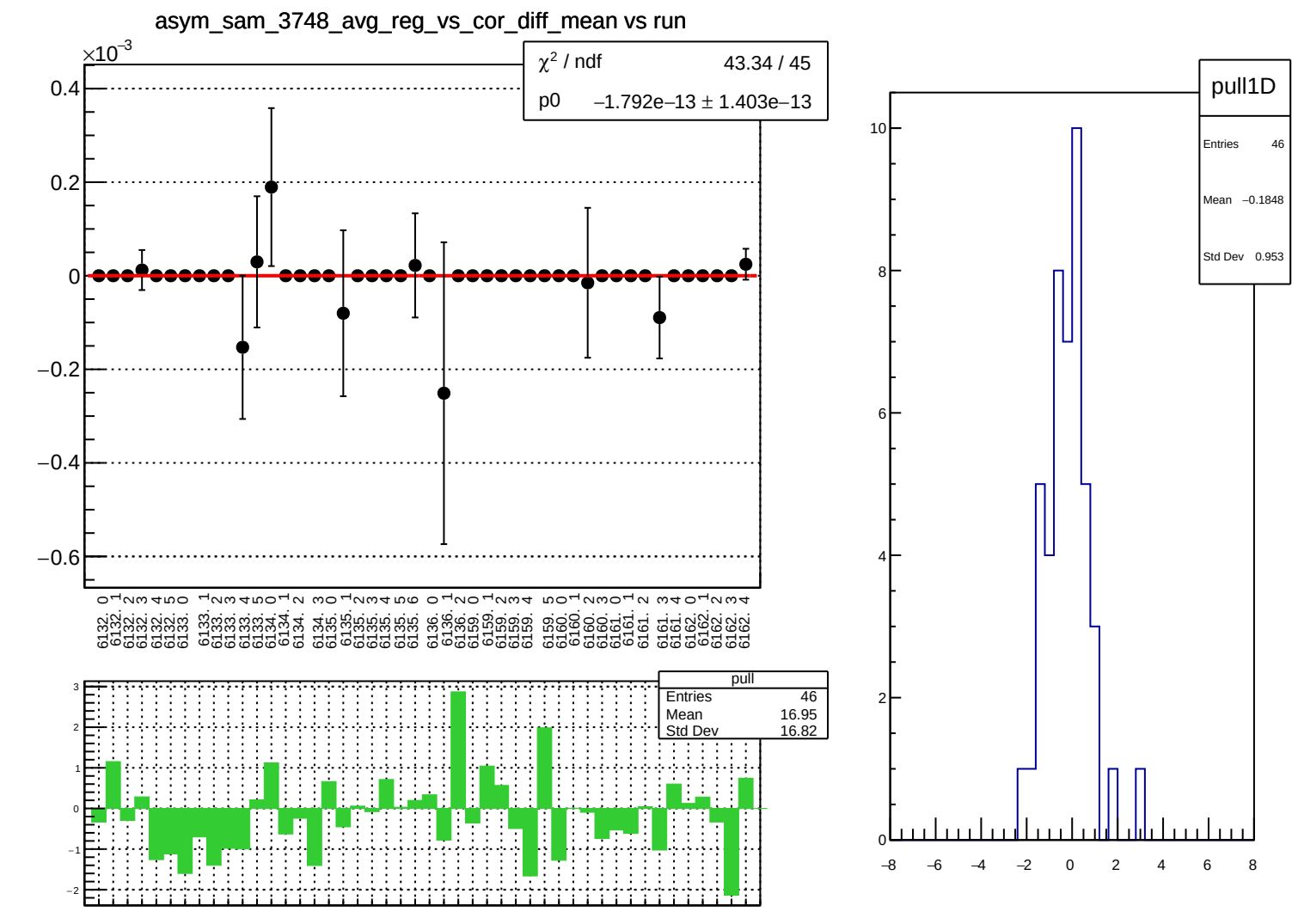
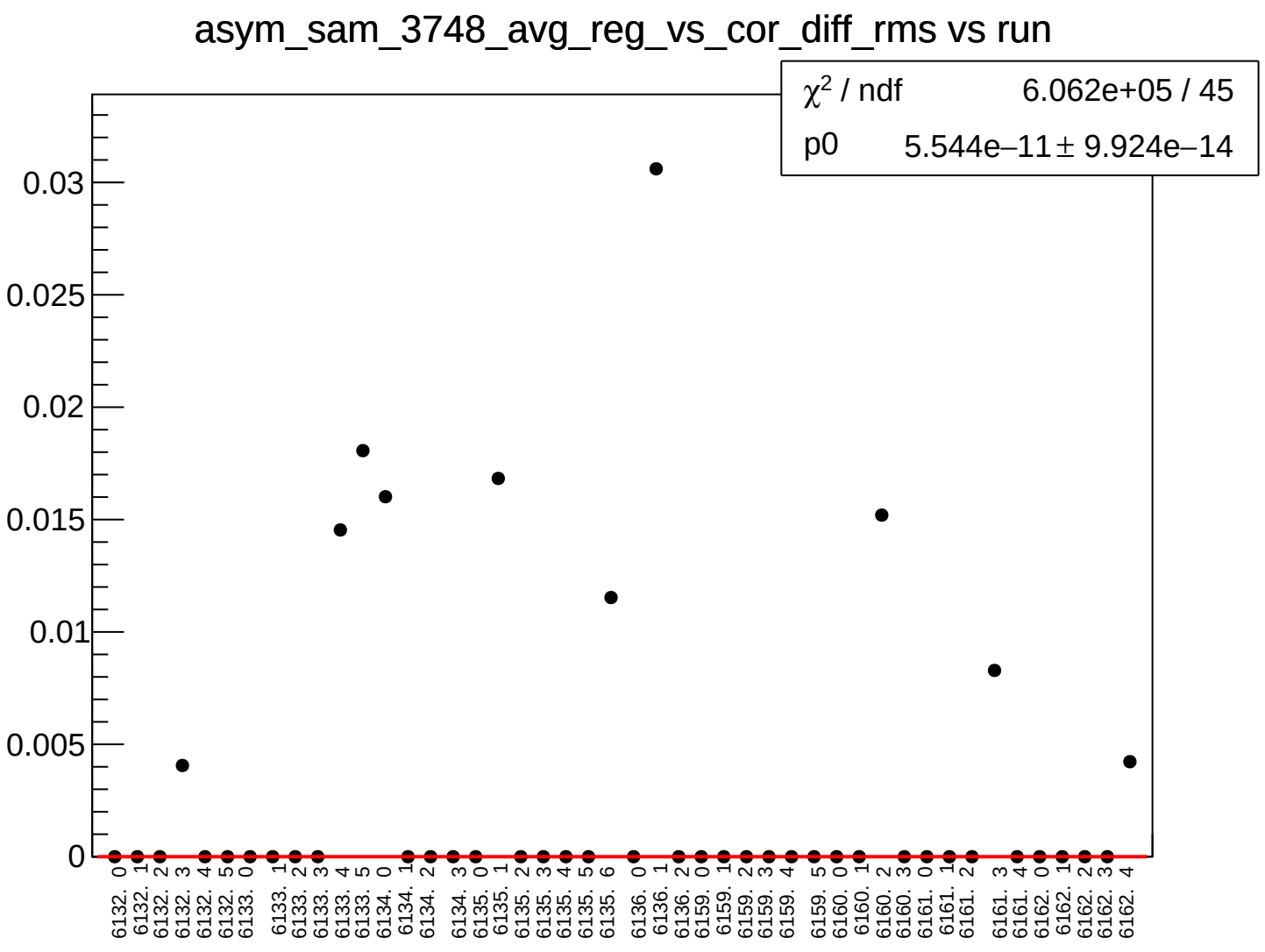
6162. 3
6162. 4

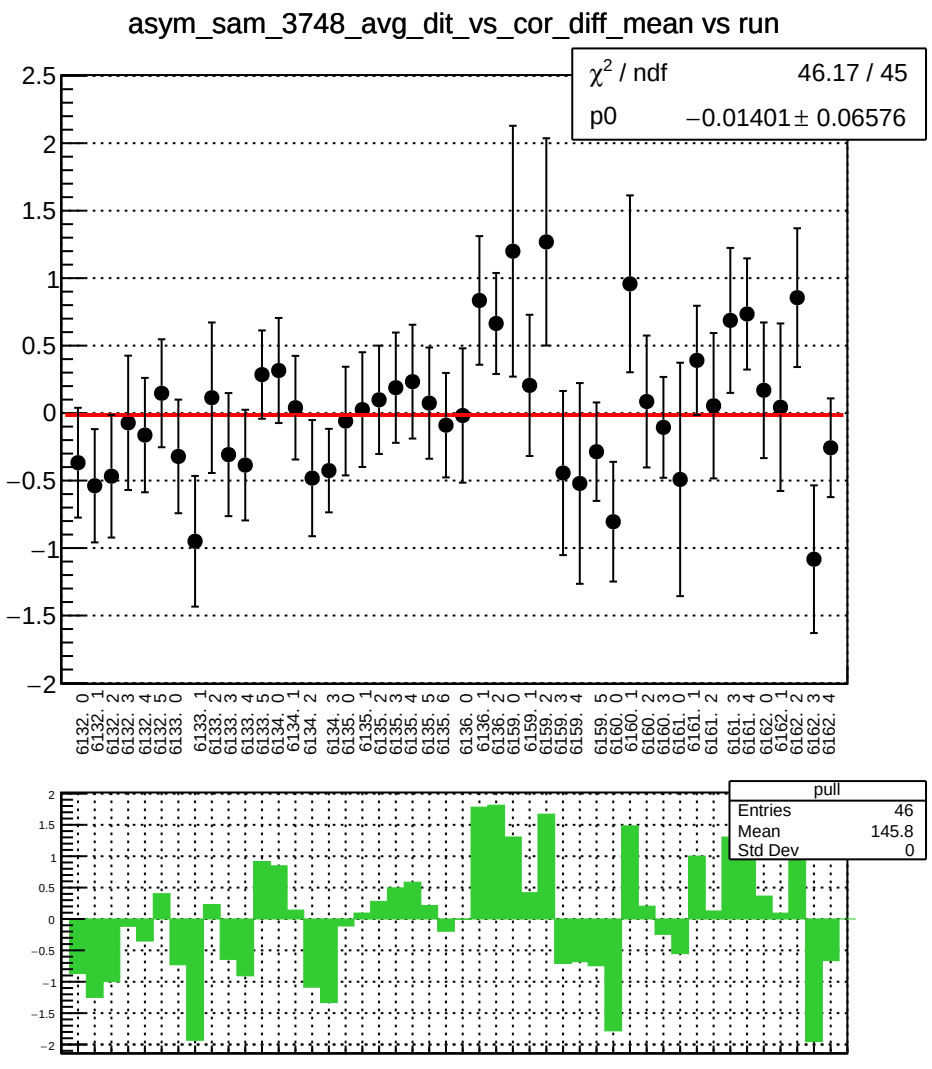

asym_sam_3748_avg_mean vs run
×10^3
χ² / ndf 54.12 / 45
p0 214.4 ± 2334
pull
Entries 46
Mean 72.36
Std Dev 0

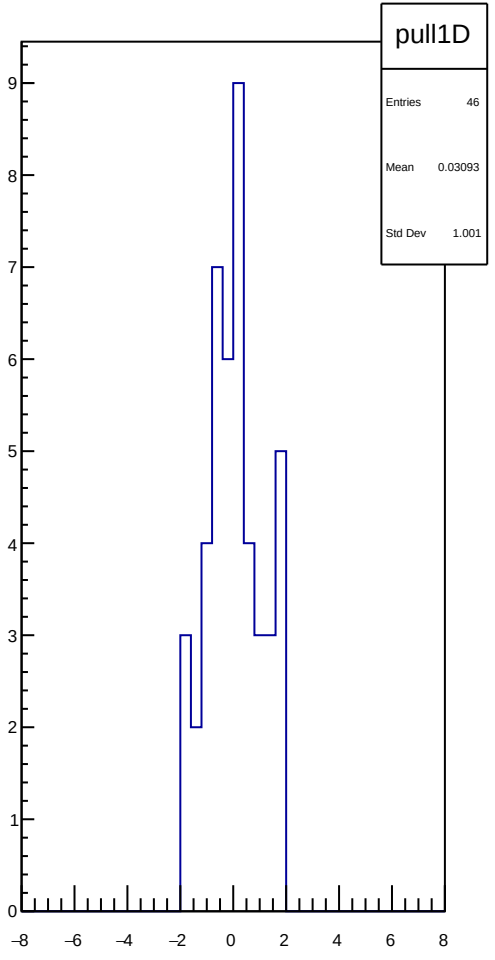

pull1D
Entries 46
Mean −0.06009
Std Dev 1.083

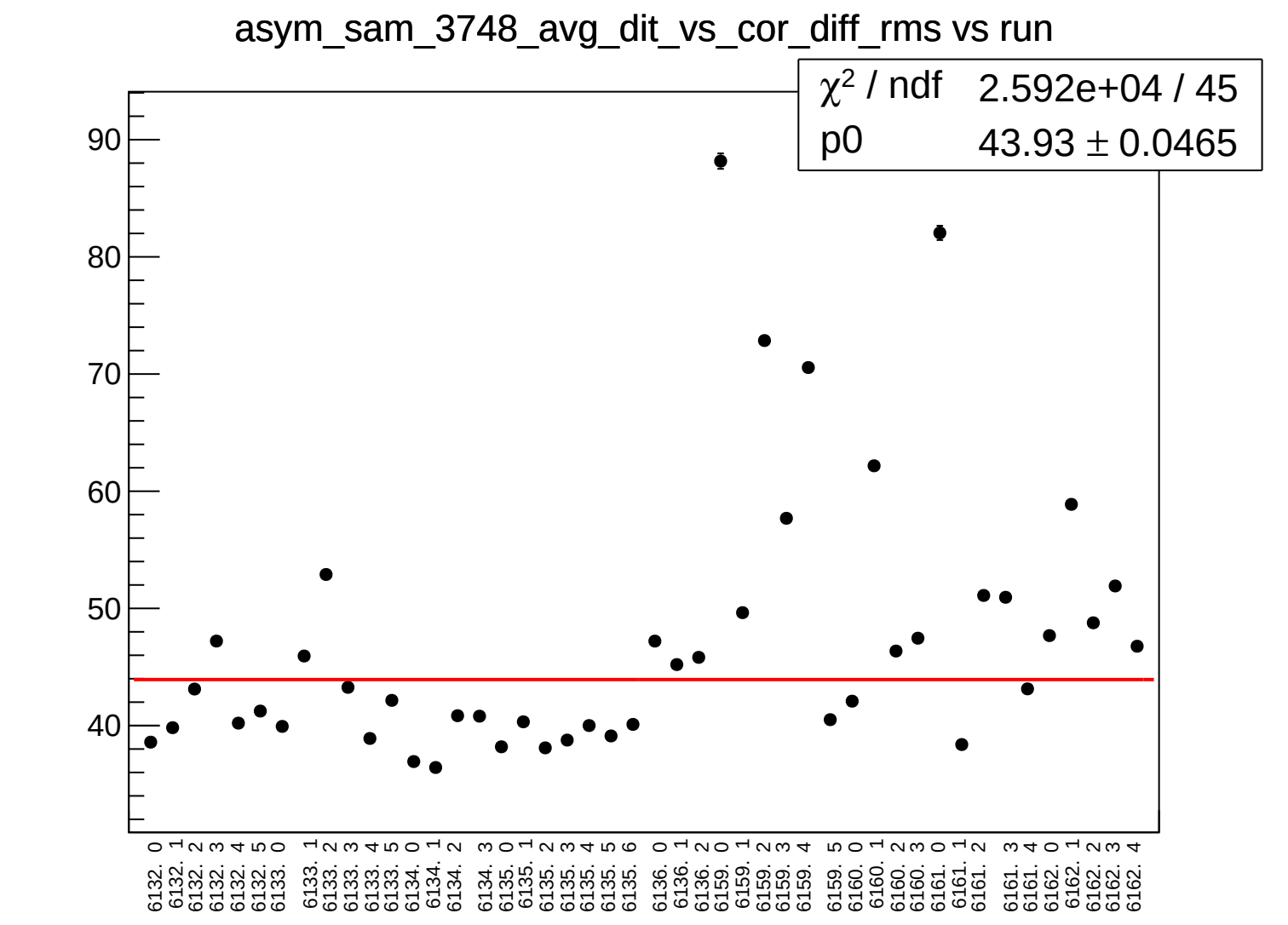

asym_sam_3748_avg_rms vs run
χ² / ndf 7.784e+04 / 45
p0 1513 ± 1.651
3500
3000
2500
2000
1500
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

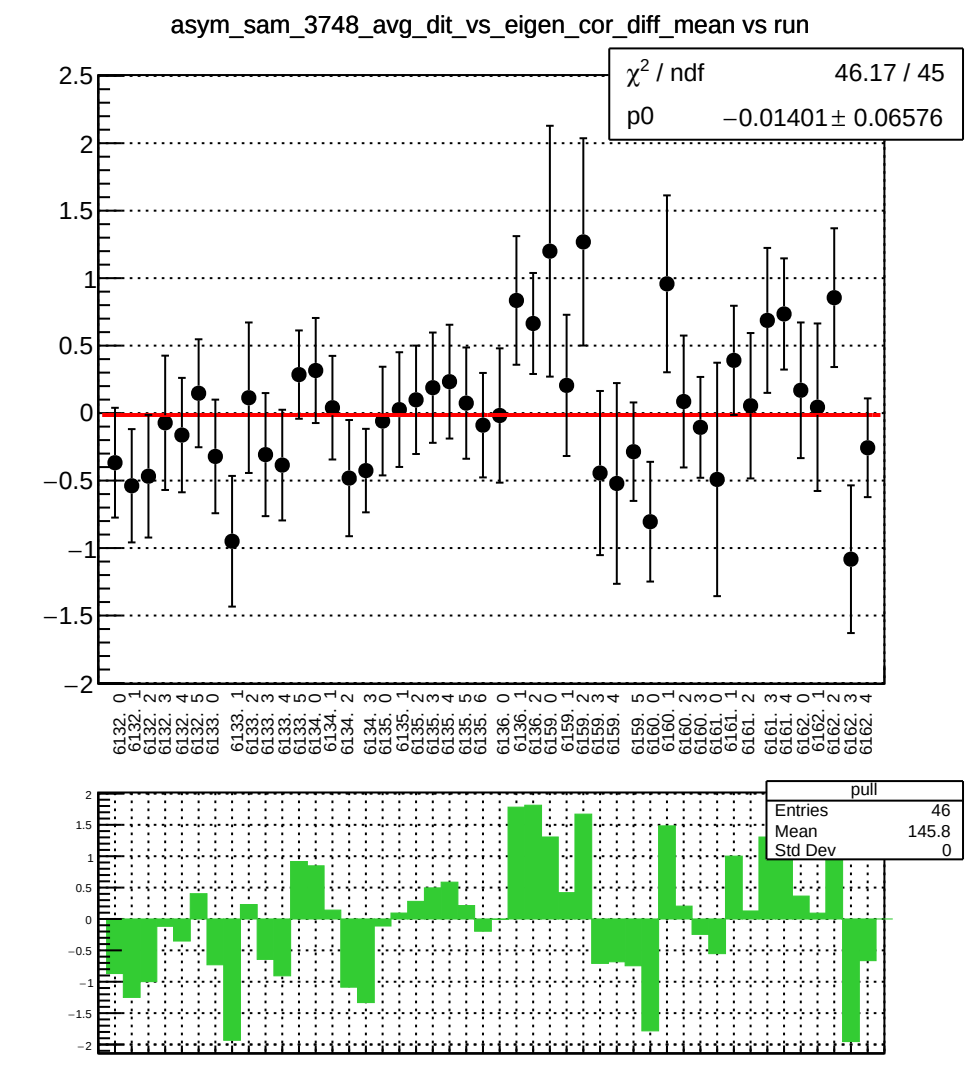

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 43.34 / 45
p0 −1.792e−13 ± 1.403e−13
0.4
0.2
0
−0.2
−0.4
−0.6
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 16.95
Std Dev 16.82
3
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.1848
Std Dev 0.953
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

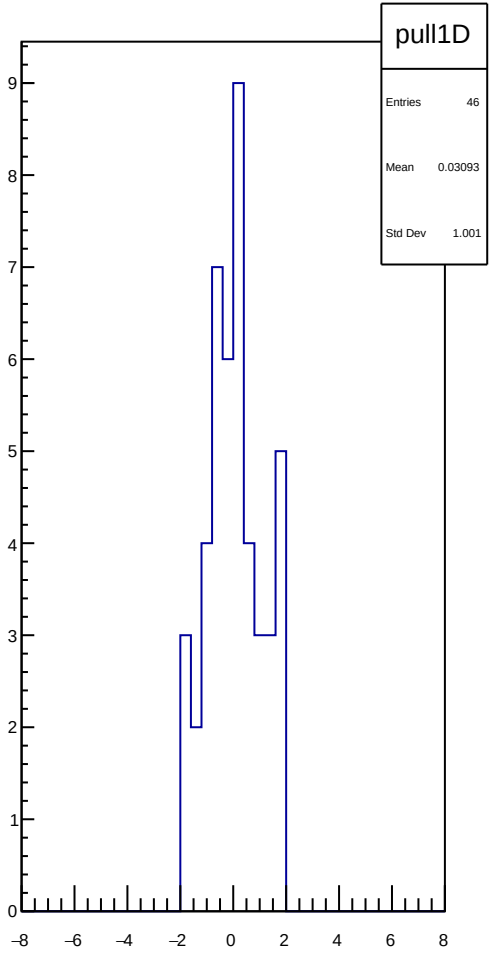

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.062e+05 / 45
p0 5.544e−11 ± 9.924e−14
0.03
0.025
0.02
0.015
0.01
0.005
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

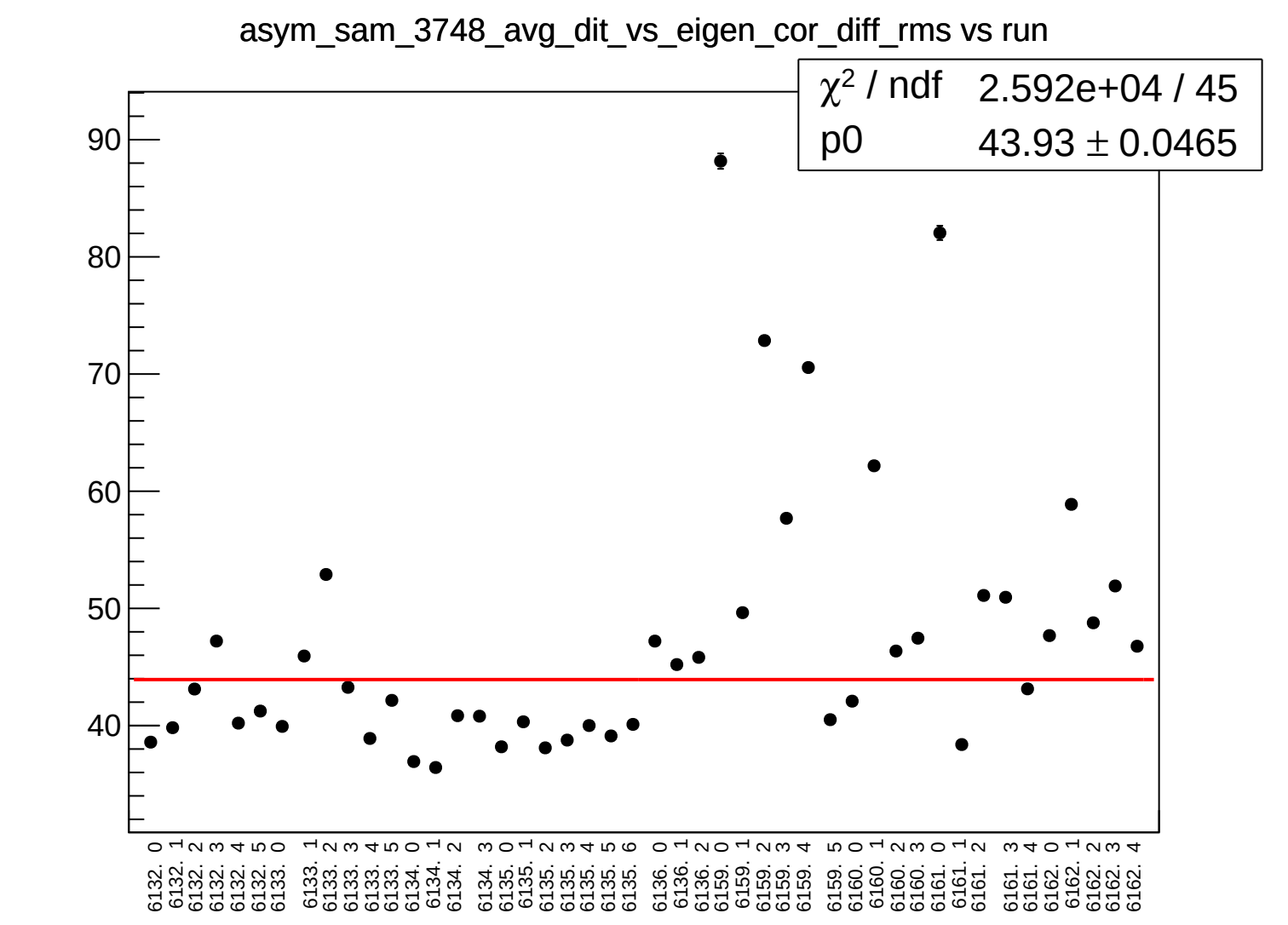

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 46.17 / 45
p0 −0.01401 ± 0.06576
pull
Entries 46
Mean 145.8
Std Dev 0

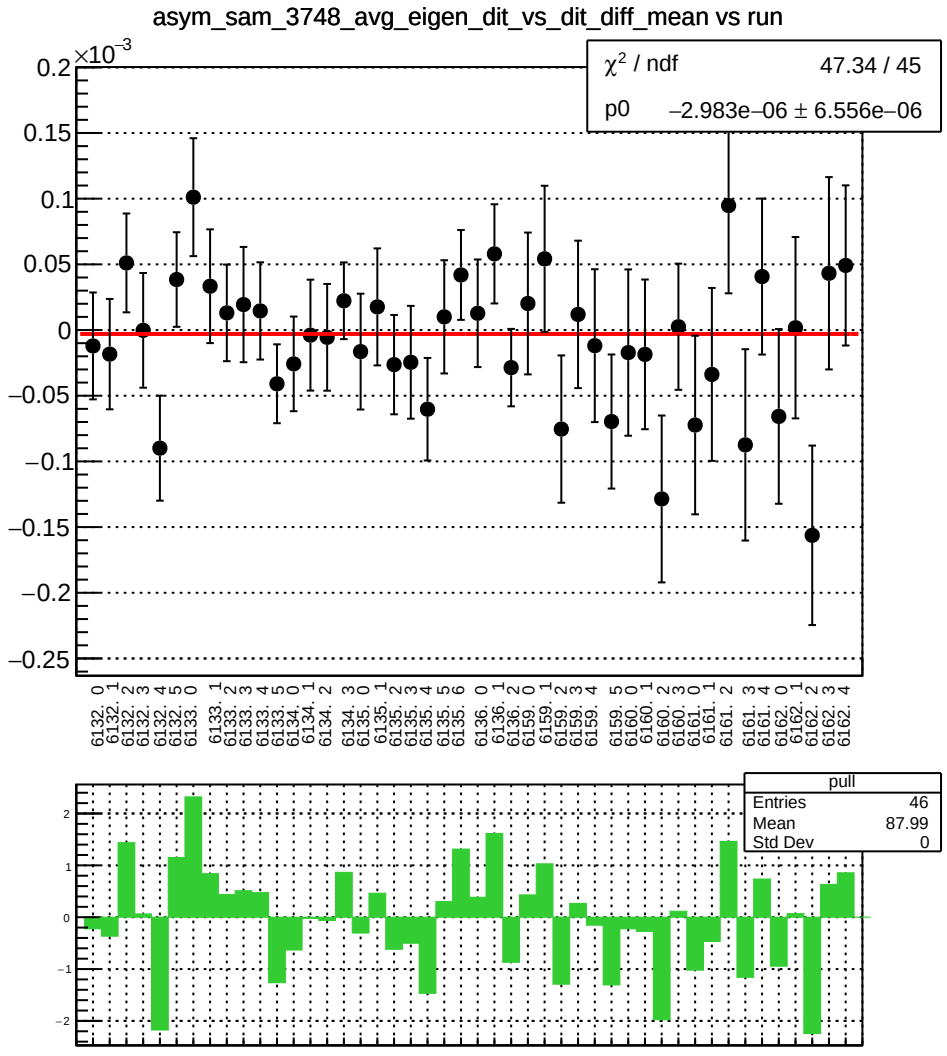

pull1D
Entries 46
Mean 0.03093
Std Dev 1.001

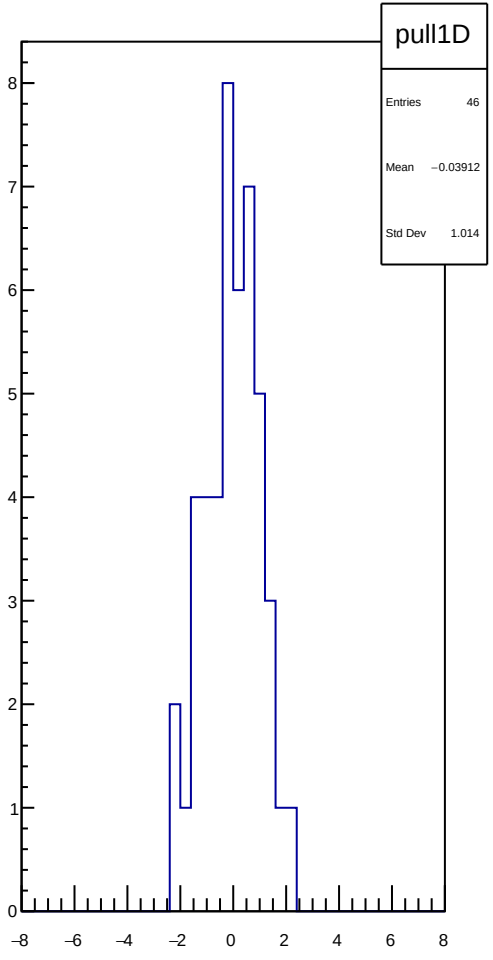

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.592e+04 / 45
p0 43.93 ± 0.0465
90
80
70
60
50
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

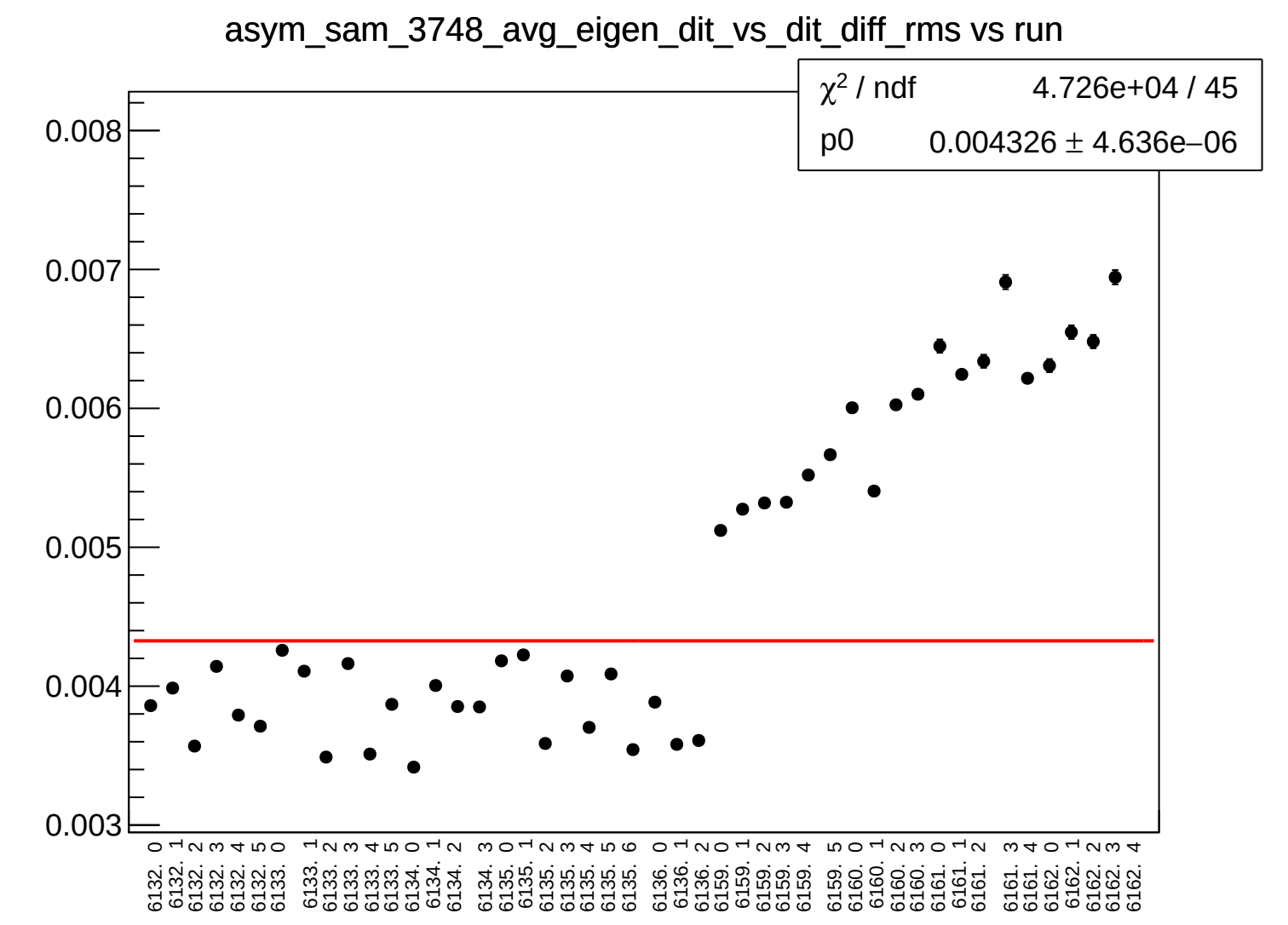

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.17 / 45
p0 −0.01401 ± 0.06576
pull
Entries 46
Mean 145.8
Std Dev 0

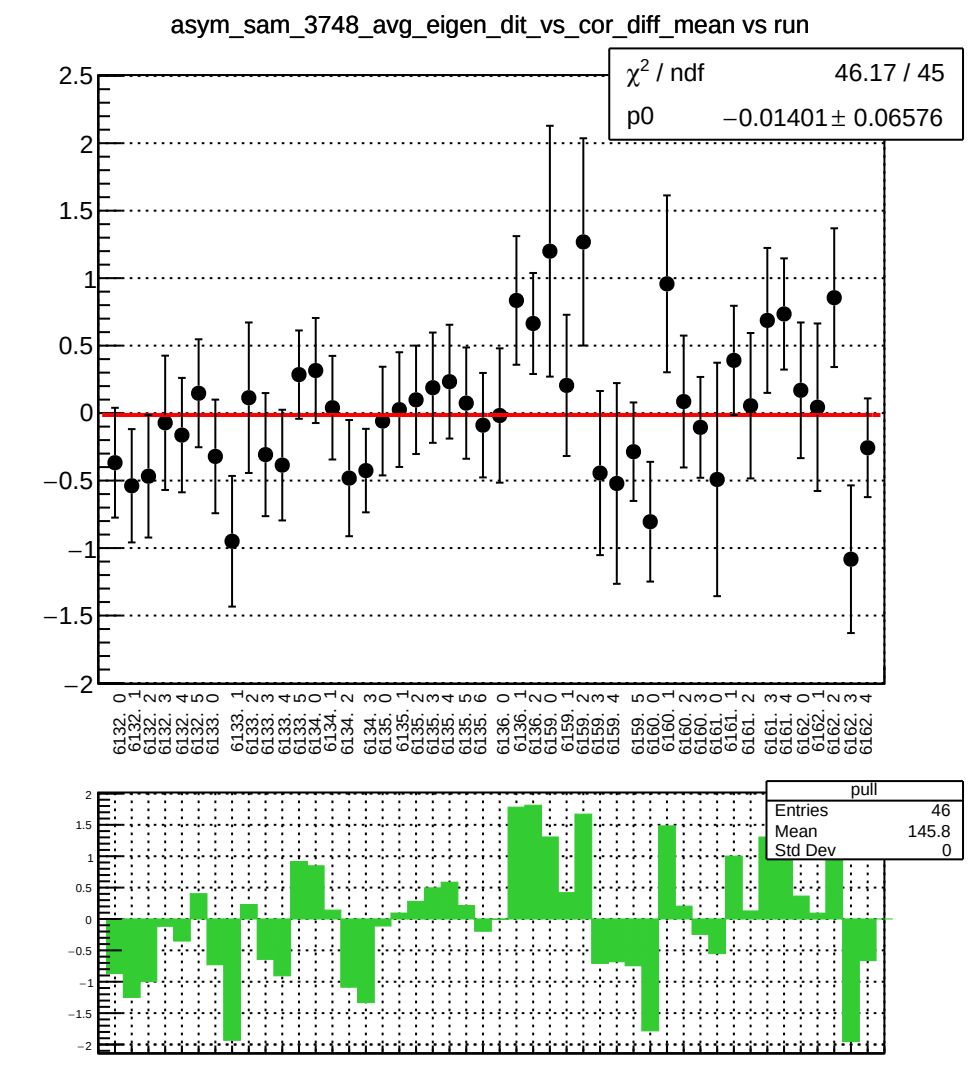

pull1D
Entries 46
Mean 0.03093
Std Dev 1.001

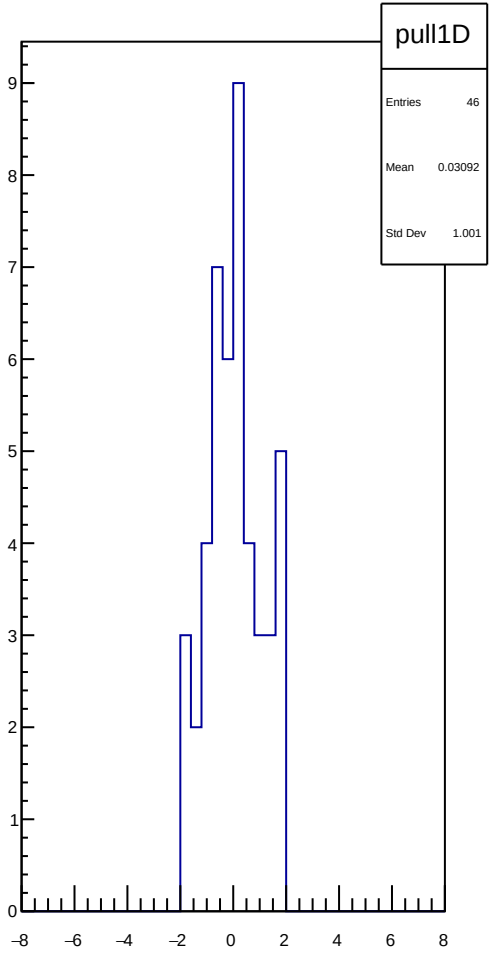

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.592e+04 / 45
p0 43.93 ± 0.0465
90
80
70
60
50
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

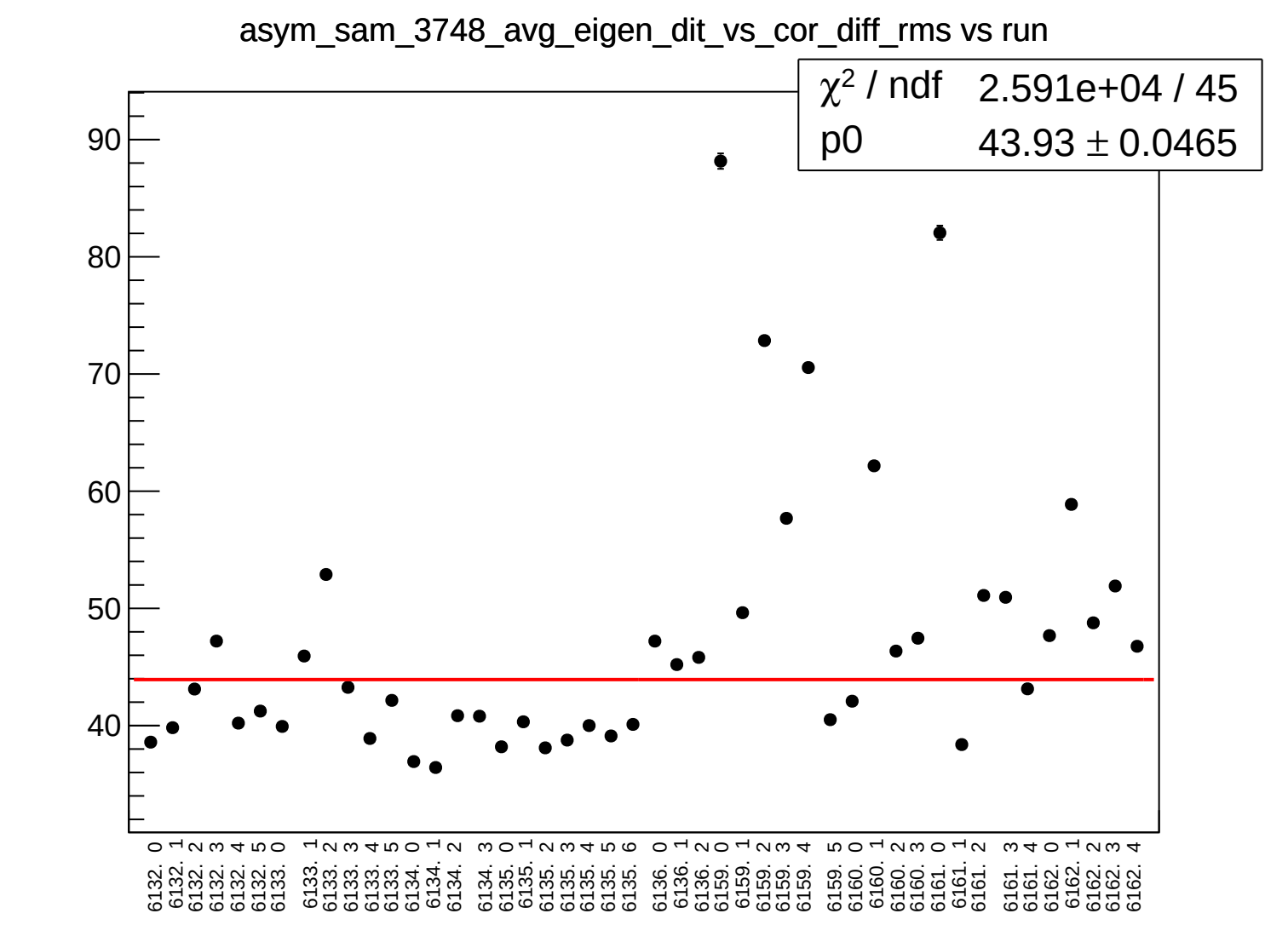

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 47.34 / 45
p0 −2.983e−06 ± 6.556e−06
pull
Entries 46
Mean 87.99
Std Dev 0

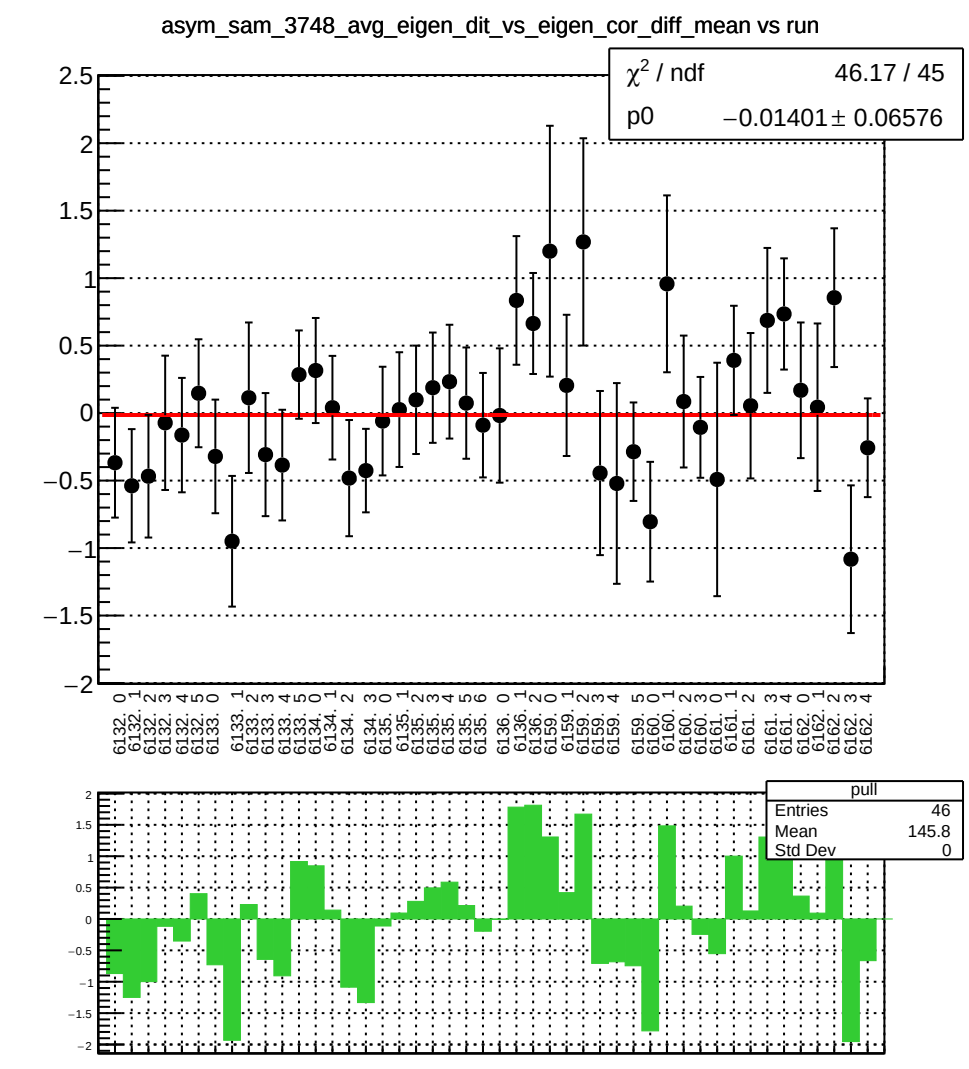

pull1D
Entries 46
Mean −0.03912
Std Dev 1.014

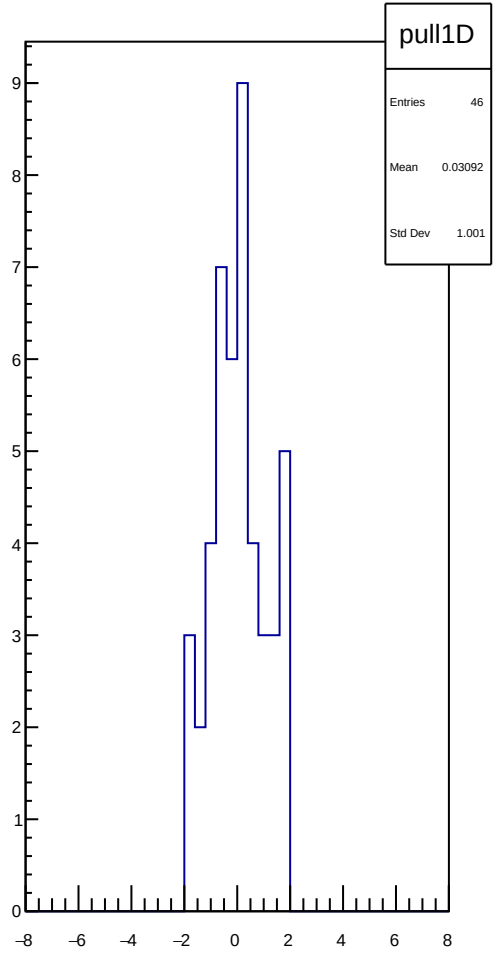

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.726e+04 / 45
p0 0.004326 ± 4.636e−06
0.008
0.007
0.006
0.005
0.004
0.003
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

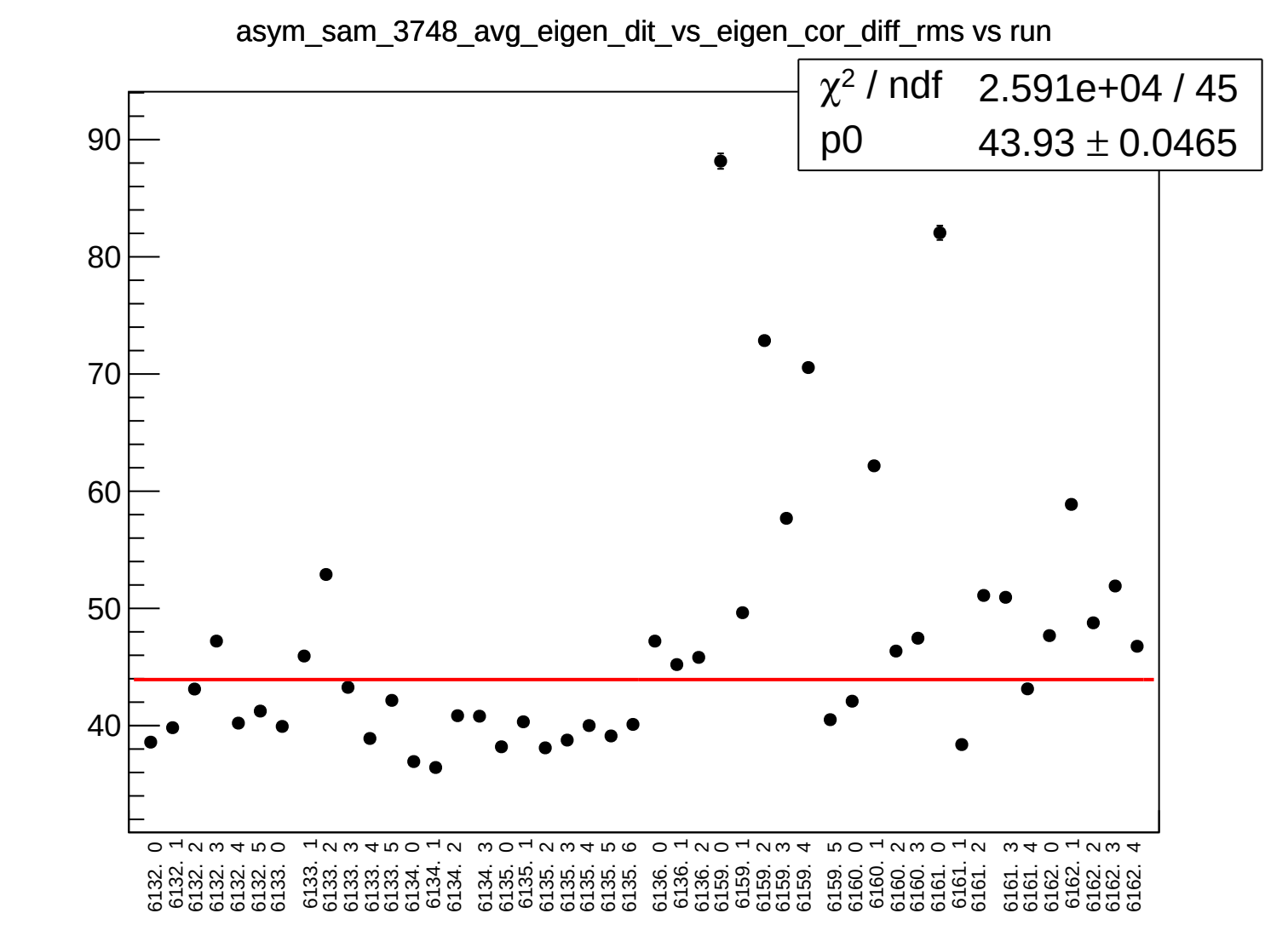

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.17 / 45
p0 −0.01401 ± 0.06576
pull
Entries 46
Mean 145.8
Std Dev 0

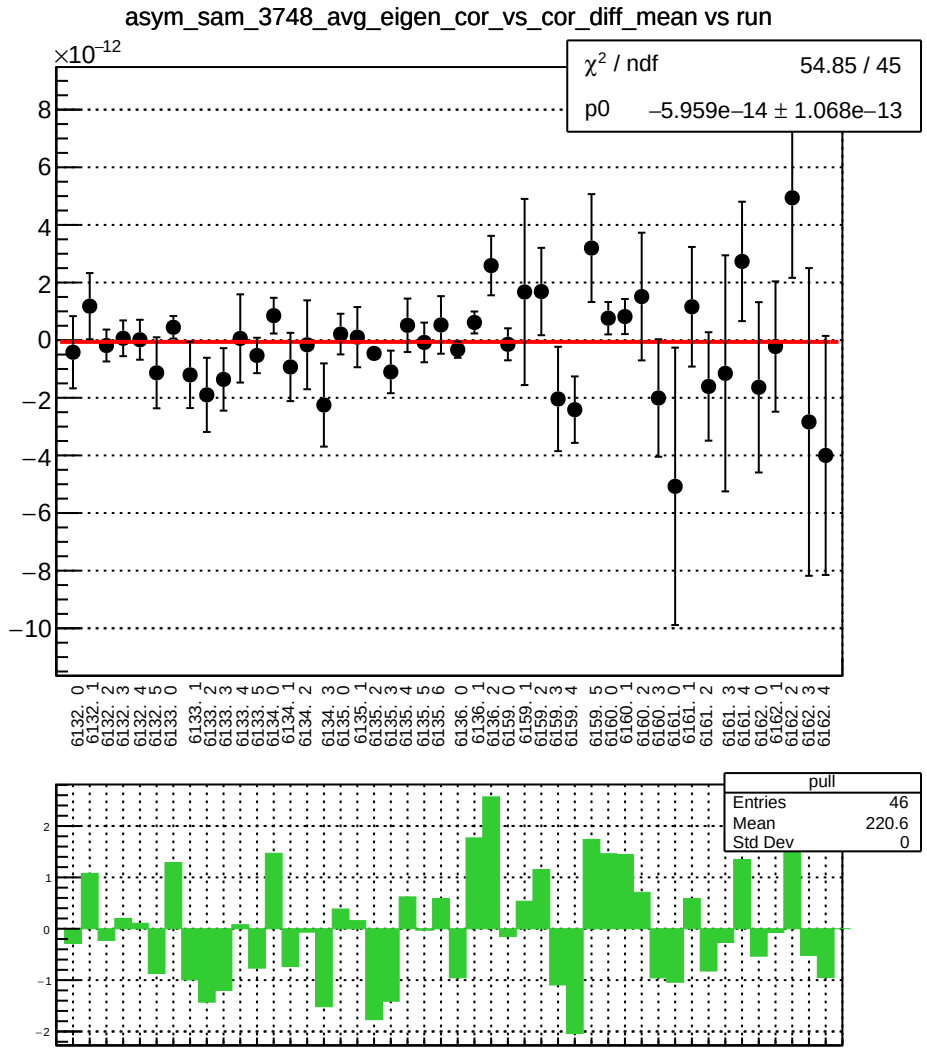

pull1D
Entries 46
Mean 0.03092
Std Dev 1.001

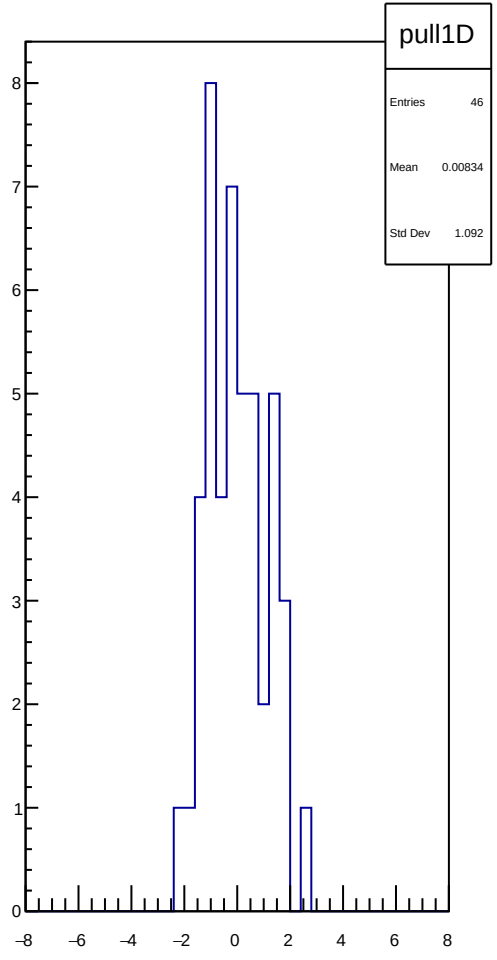

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.591e+04 / 45
p0 43.93 ± 0.0465
90
80
70
60
50
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

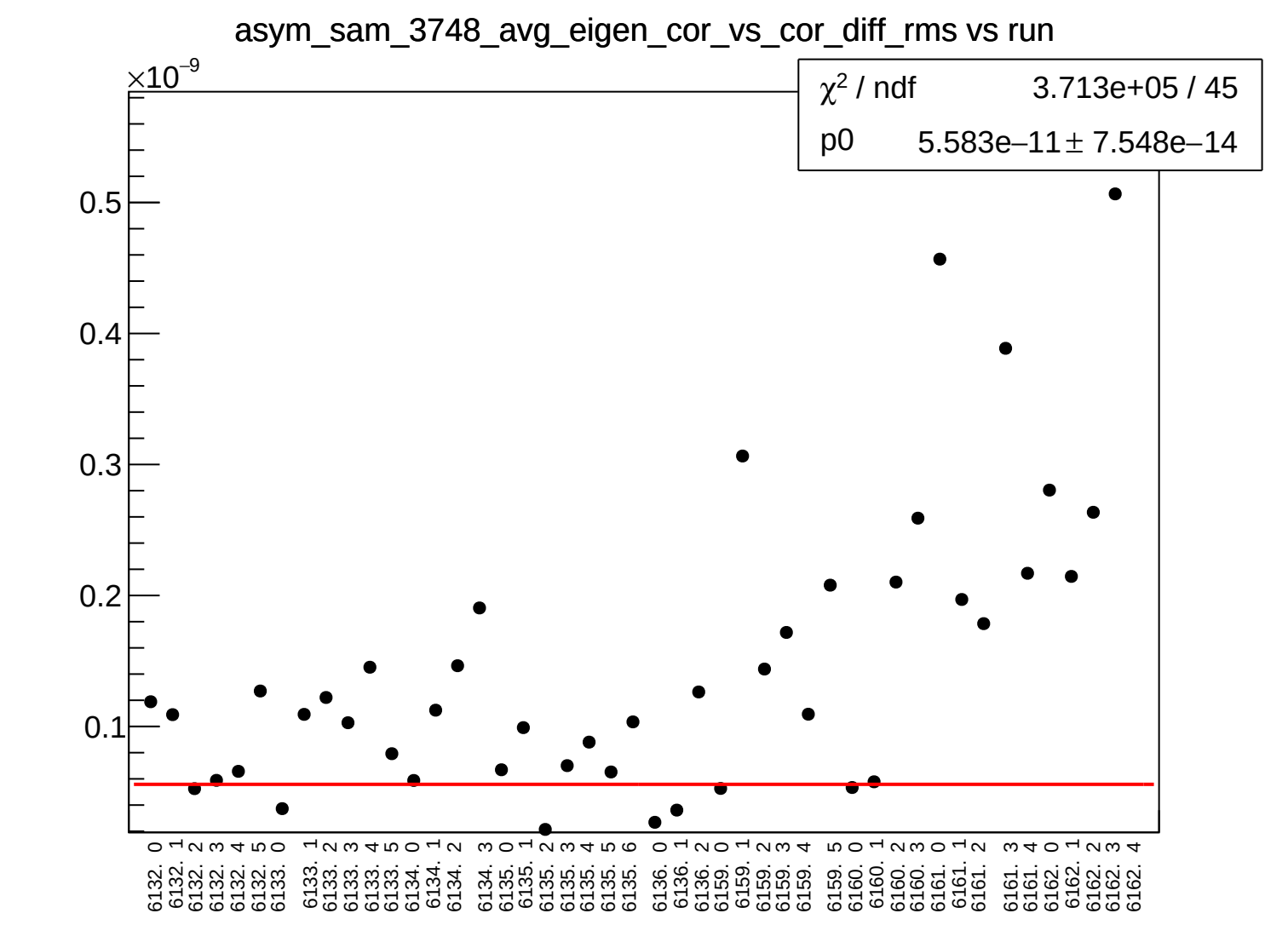

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.17 / 45
p0 −0.01401 ± 0.06576
pull
Entries 46
Mean 145.8
Std Dev 0

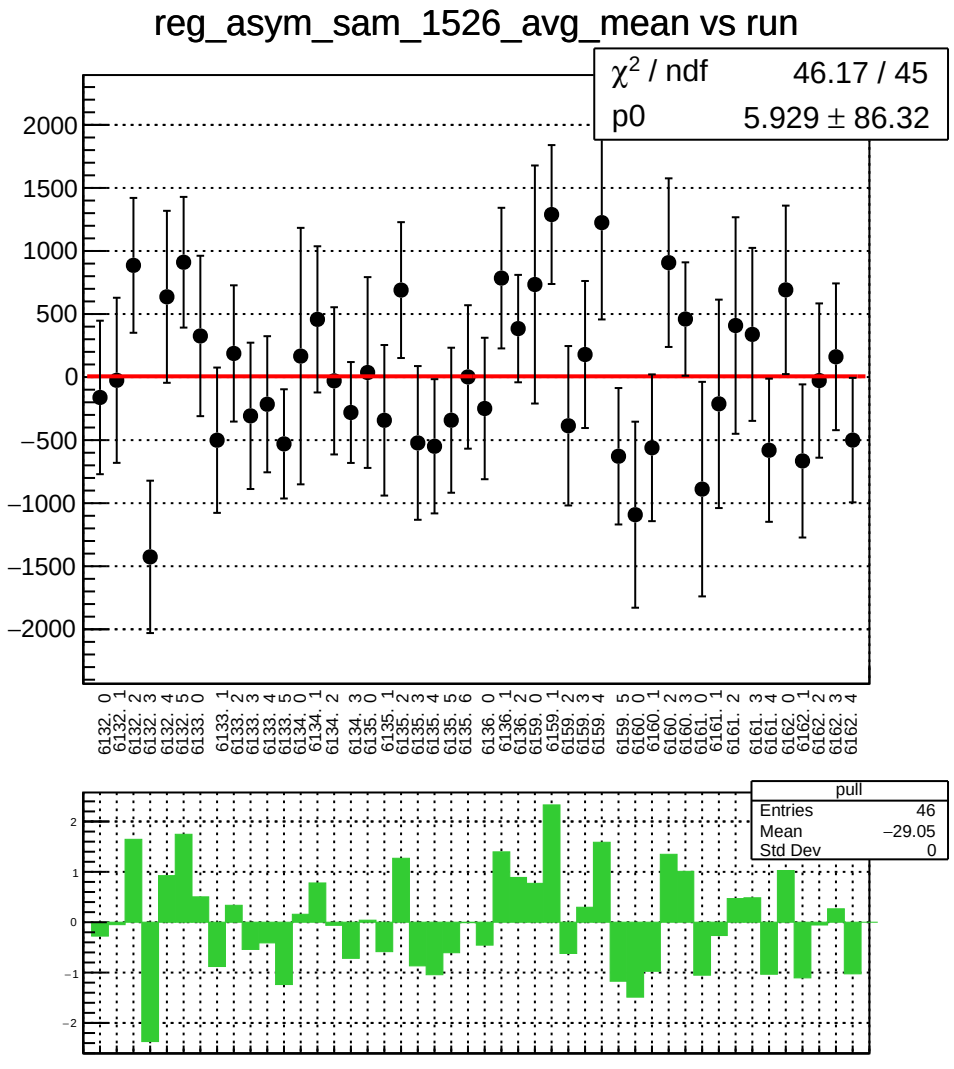

pull1D
Entries 46
Mean 0.03092
Std Dev 1.001

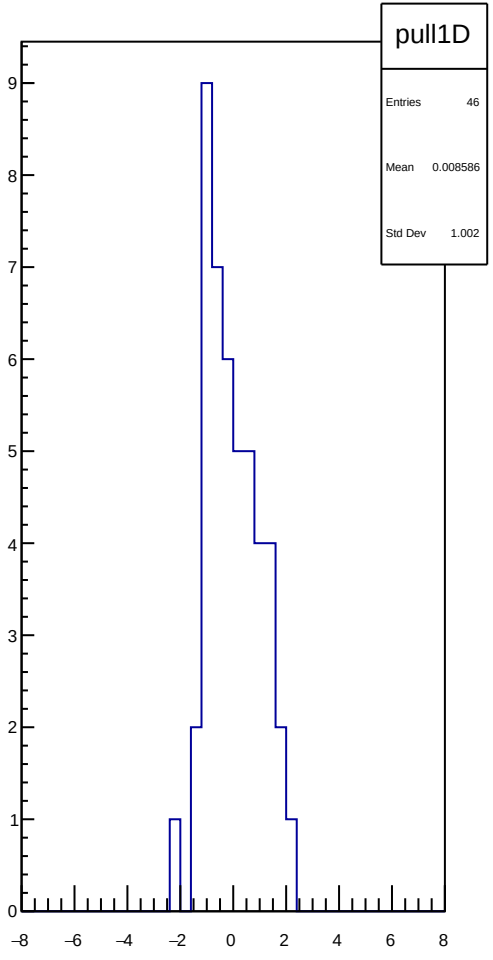

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.591e+04 / 45
p0 43.93 ± 0.0465
90
80
70
60
50
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

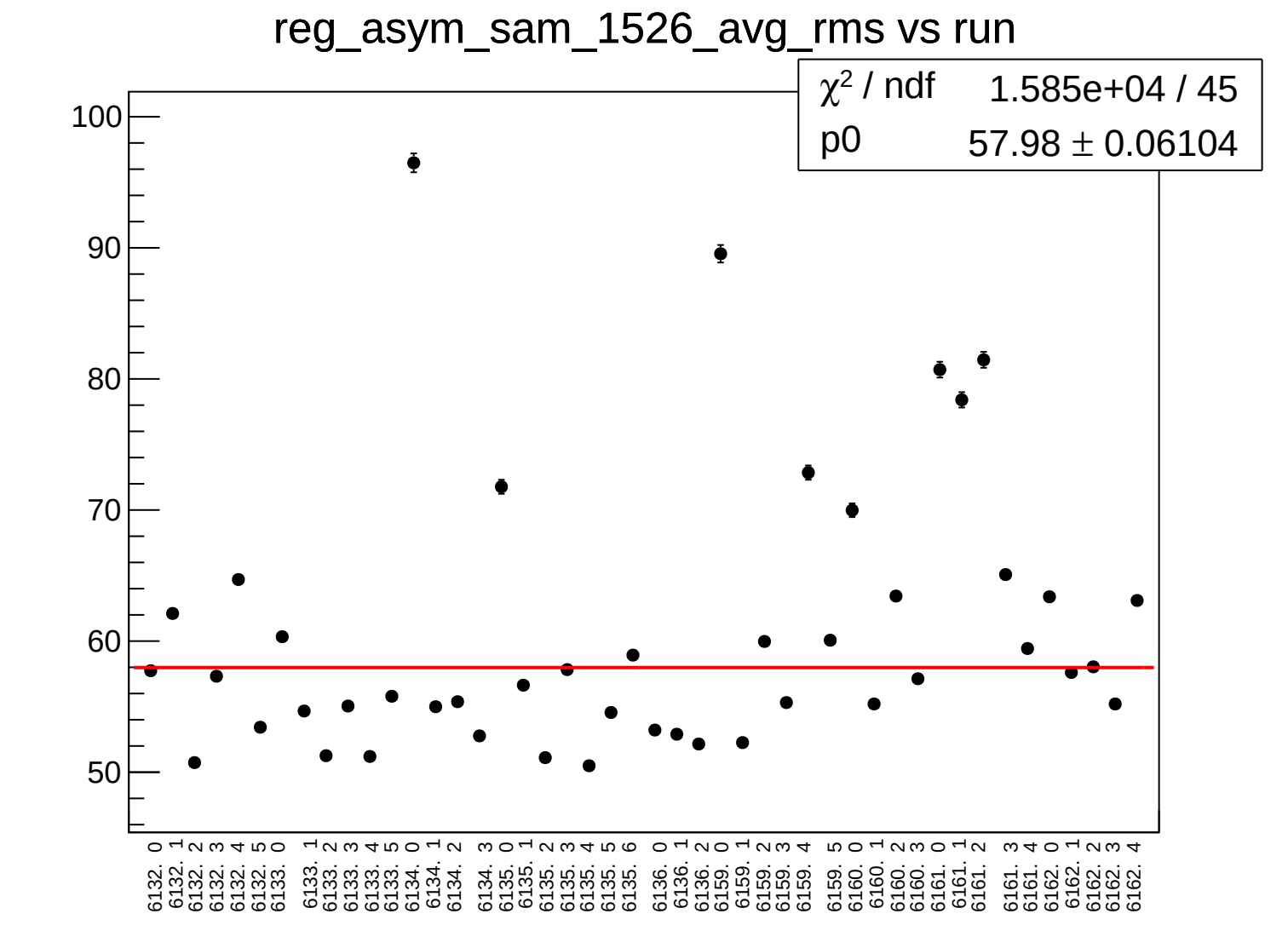

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 54.85 / 45
p0 −5.959e−14 ± 1.068e−13
pull
Entries 46
Mean 220.6
Std Dev 0

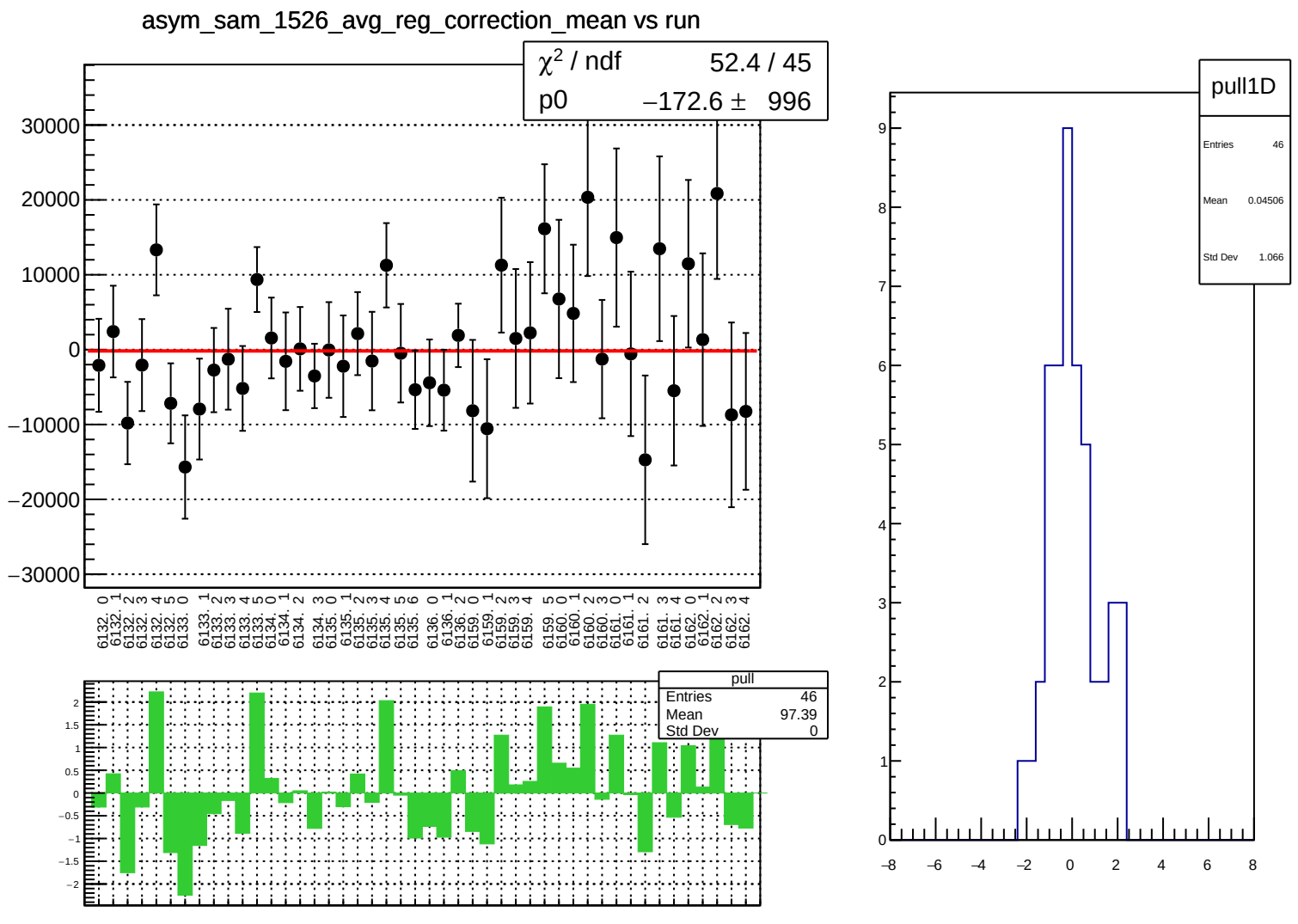

pull1D
Entries 46
Mean 0.00834
Std Dev 1.092

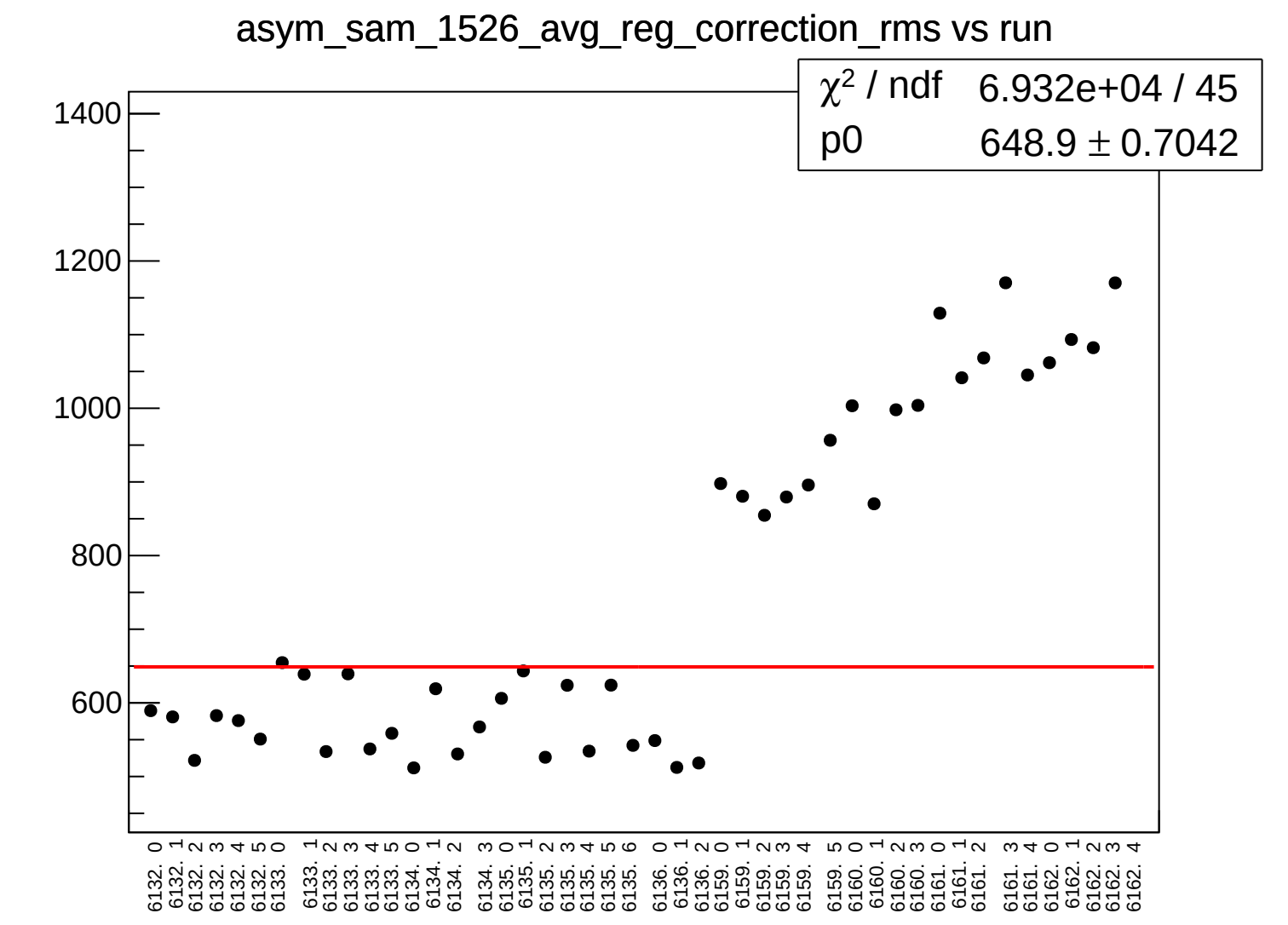

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.713e+05 / 45
p0 5.583e−11 ± 7.548e−14
0.5
0.4
0.3
0.2
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

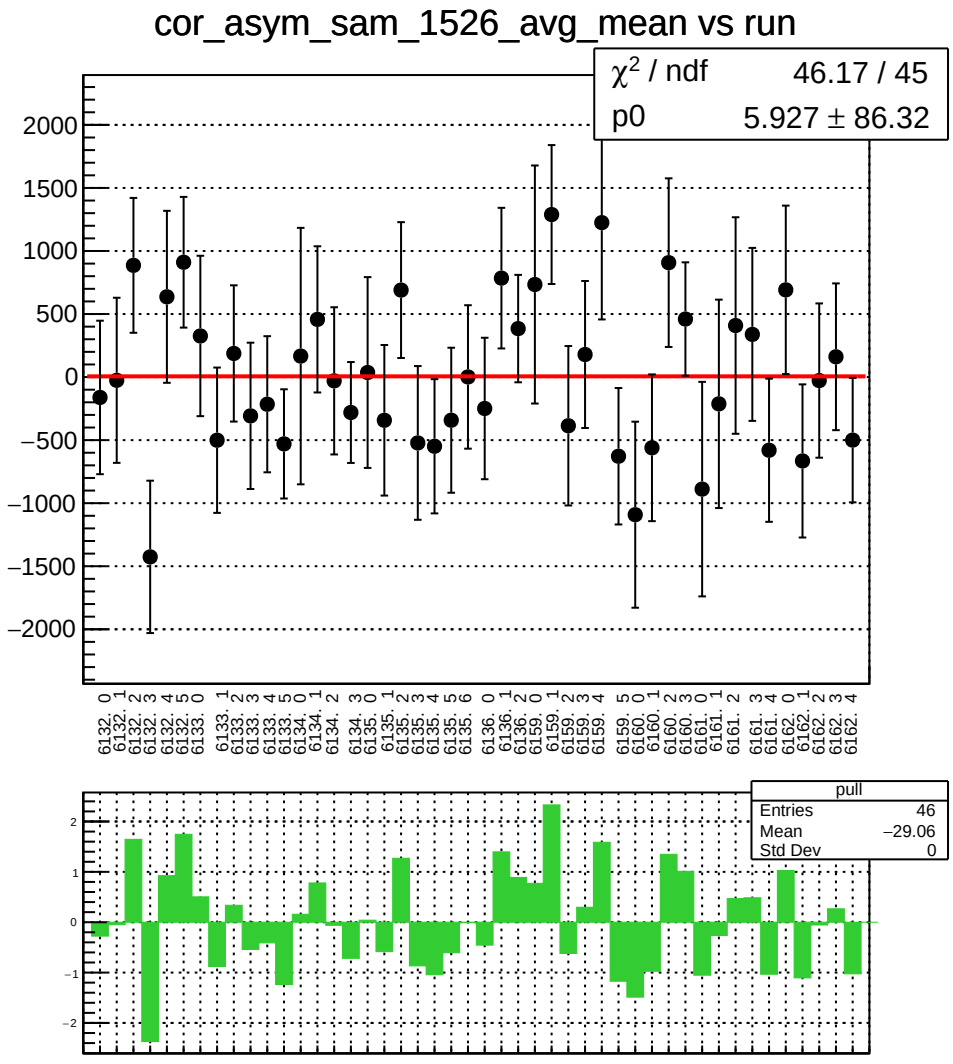

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 46.17 / 45
p0 5.929 ± 86.32
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −29.05
Std Dev 0
2
1
0
−1
−2

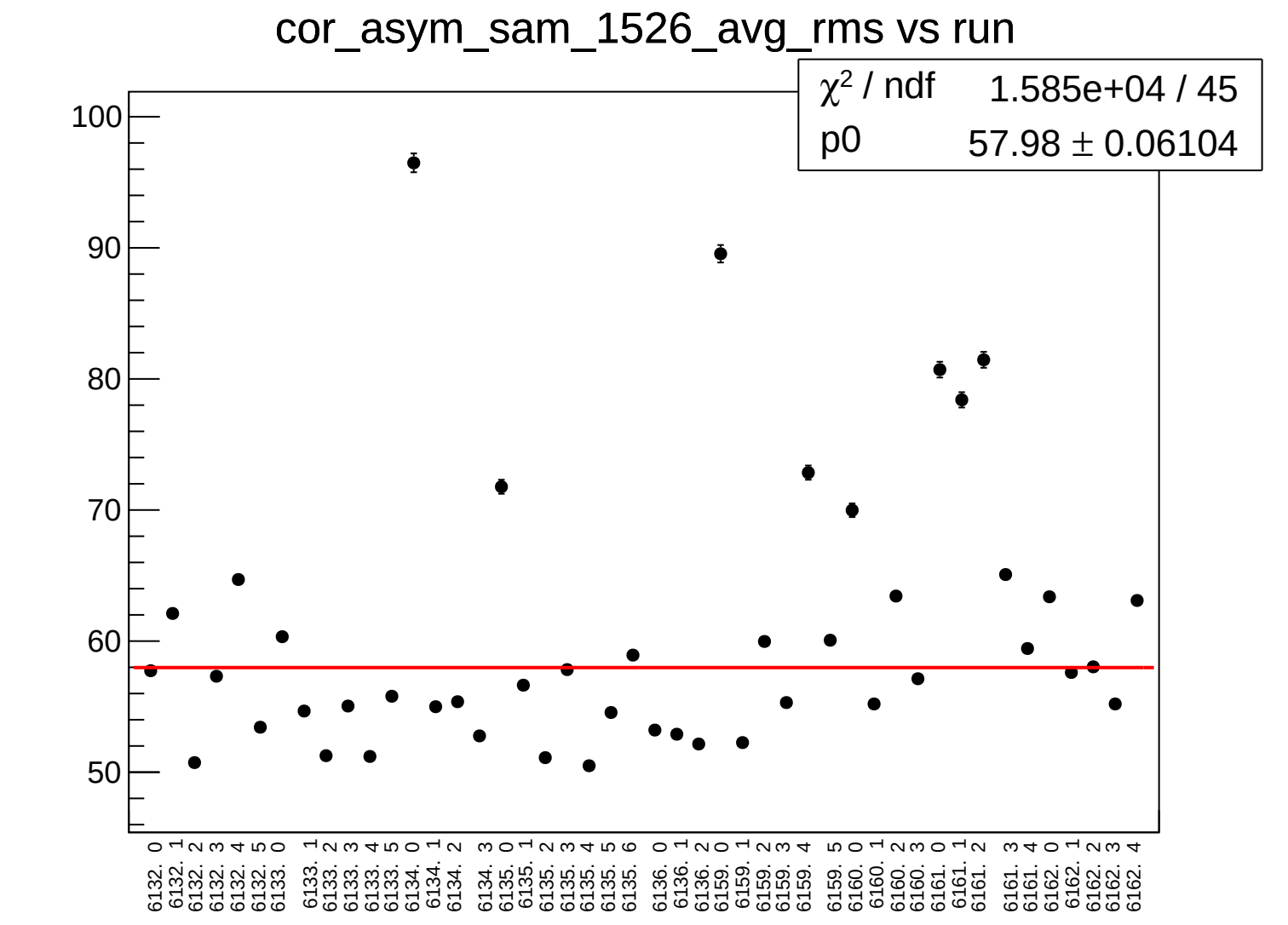

pull1D
Entries 46
Mean 0.008586
Std Dev 1.002
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

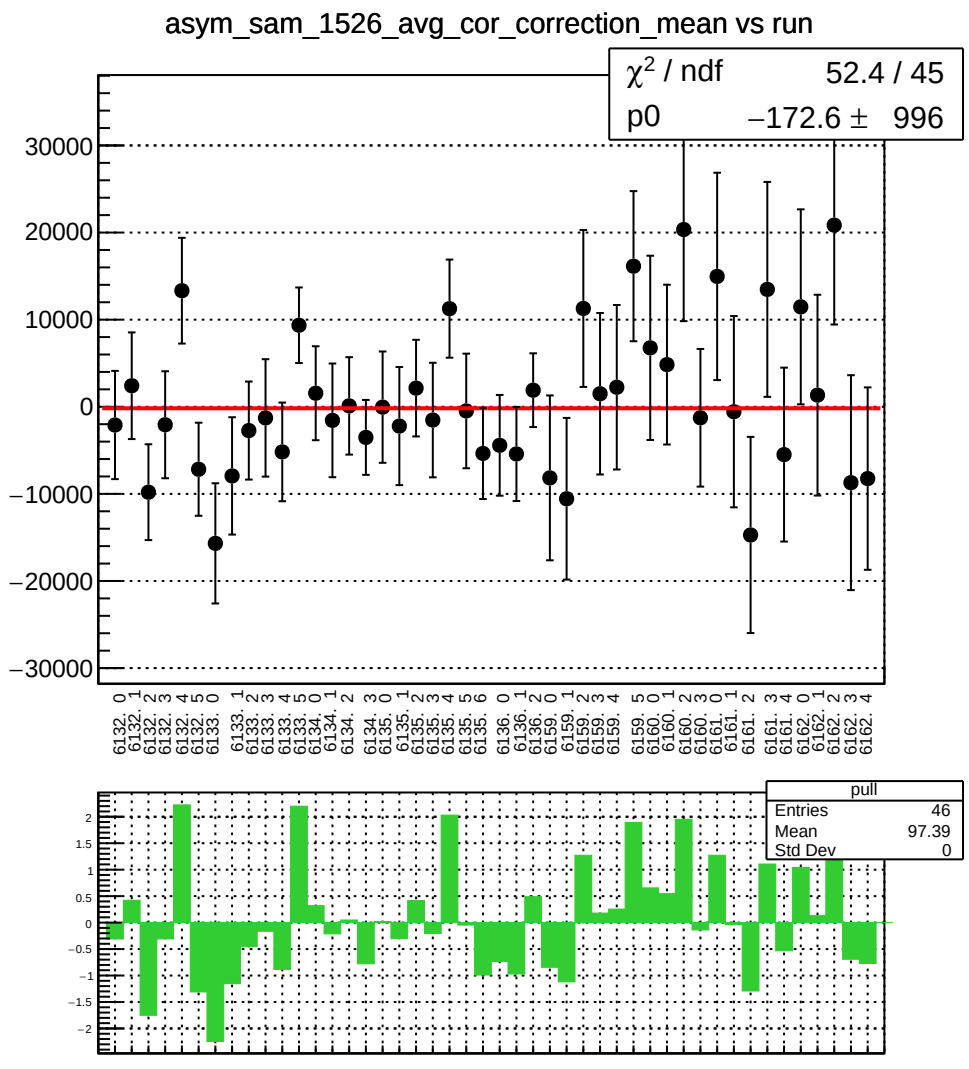

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 1.585e+04 / 45
p0 57.98 ± 0.06104
100
90
80
70
60
50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 52.4 / 45
p0 −172.6 ± 996
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 97.39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.04506
Std Dev 1.066
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 6.932e+04 / 45
p0 648.9 ± 0.7042
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_sam_1526_avg_mean vs run
χ² / ndf 46.17 / 45
p0 5.927 ± 86.32
pull
Entries 46
Mean −29.06
Std Dev 0
pull1D
Entries 46
Mean 0.008587
Std Dev 1.002


cor_asym_sam_1526_avg_rms vs run
χ² / ndf 1.585e+04 / 45
p0 57.98 ± 0.06104
100
90
80
70
60
50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 52.4 / 45
p0 −172.6 ± 996
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
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6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 97.39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.04506
Std Dev 1.066
9
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5
4
3
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1
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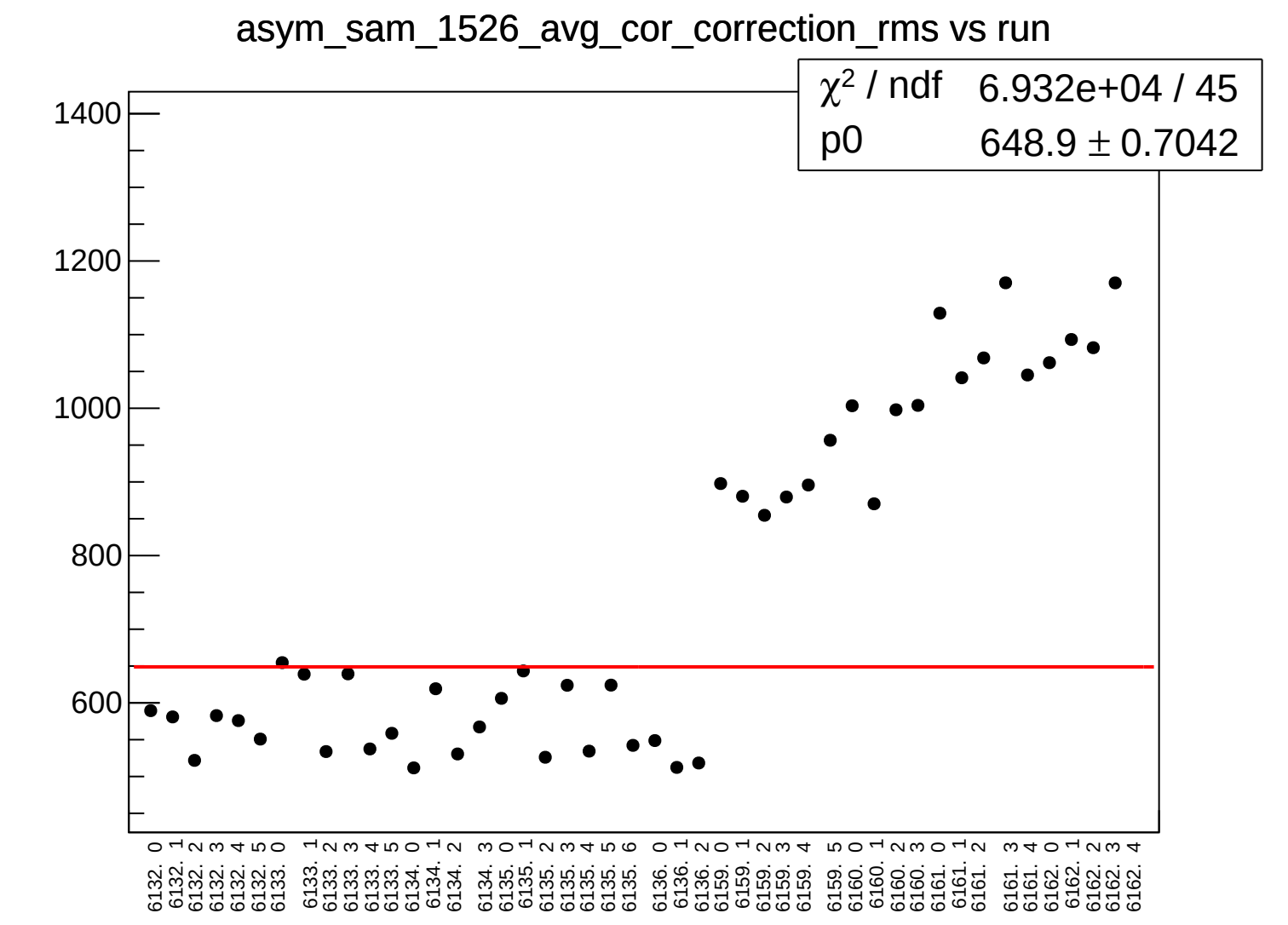
−6
−4
−2
0
2
4
6
8


asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 6.932e+04 / 45
p0 648.9 ± 0.7042
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
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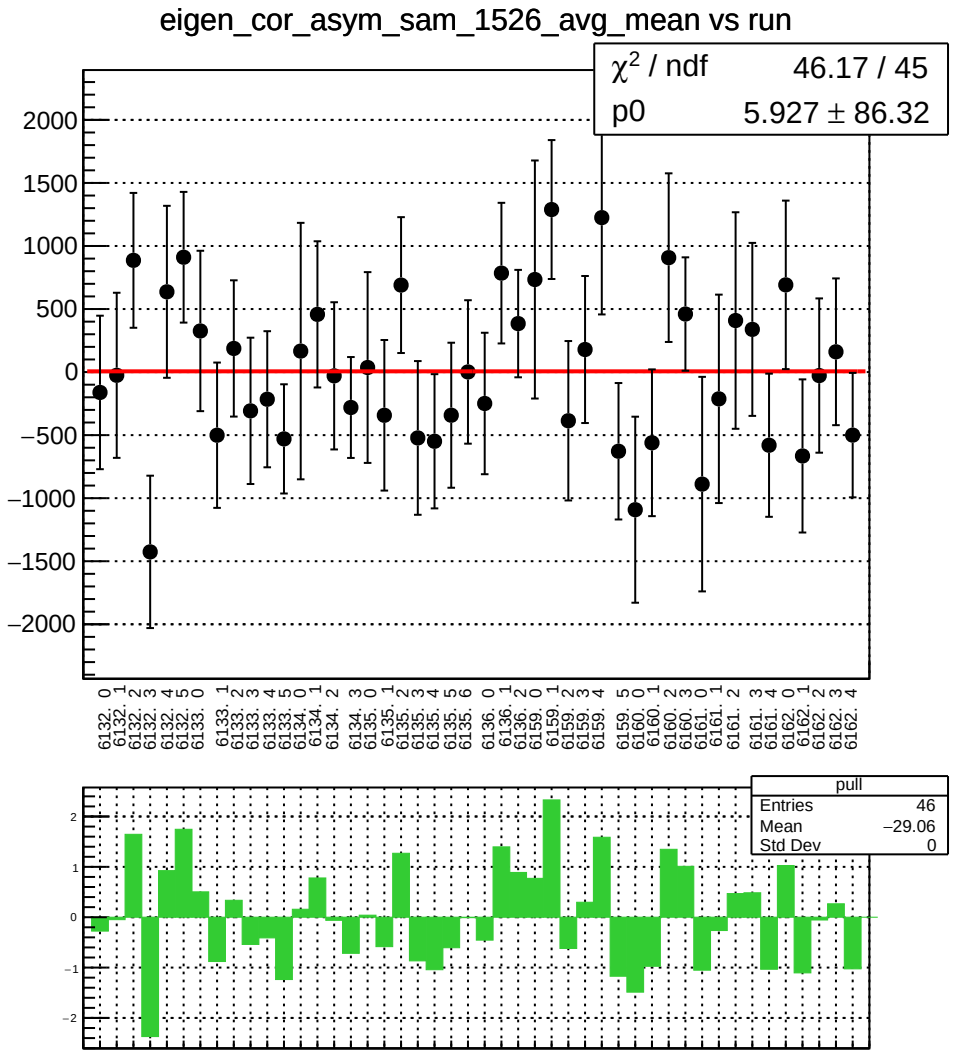
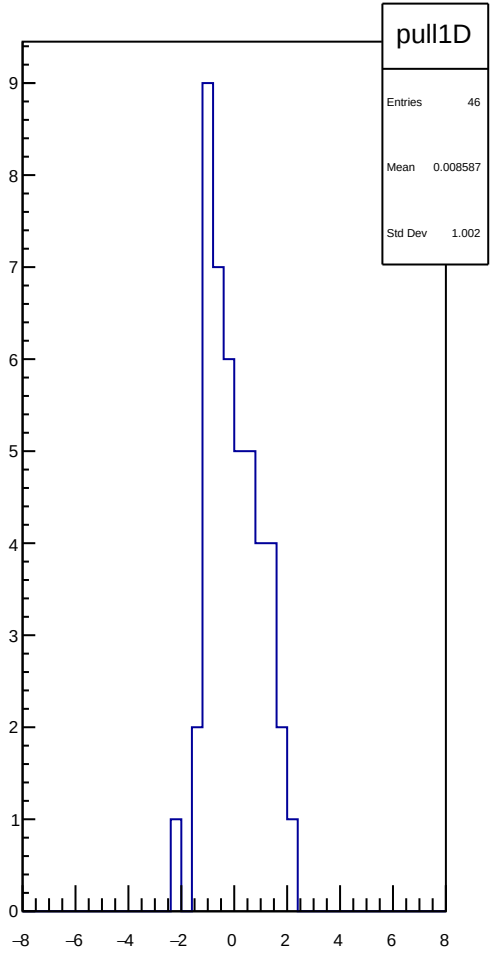
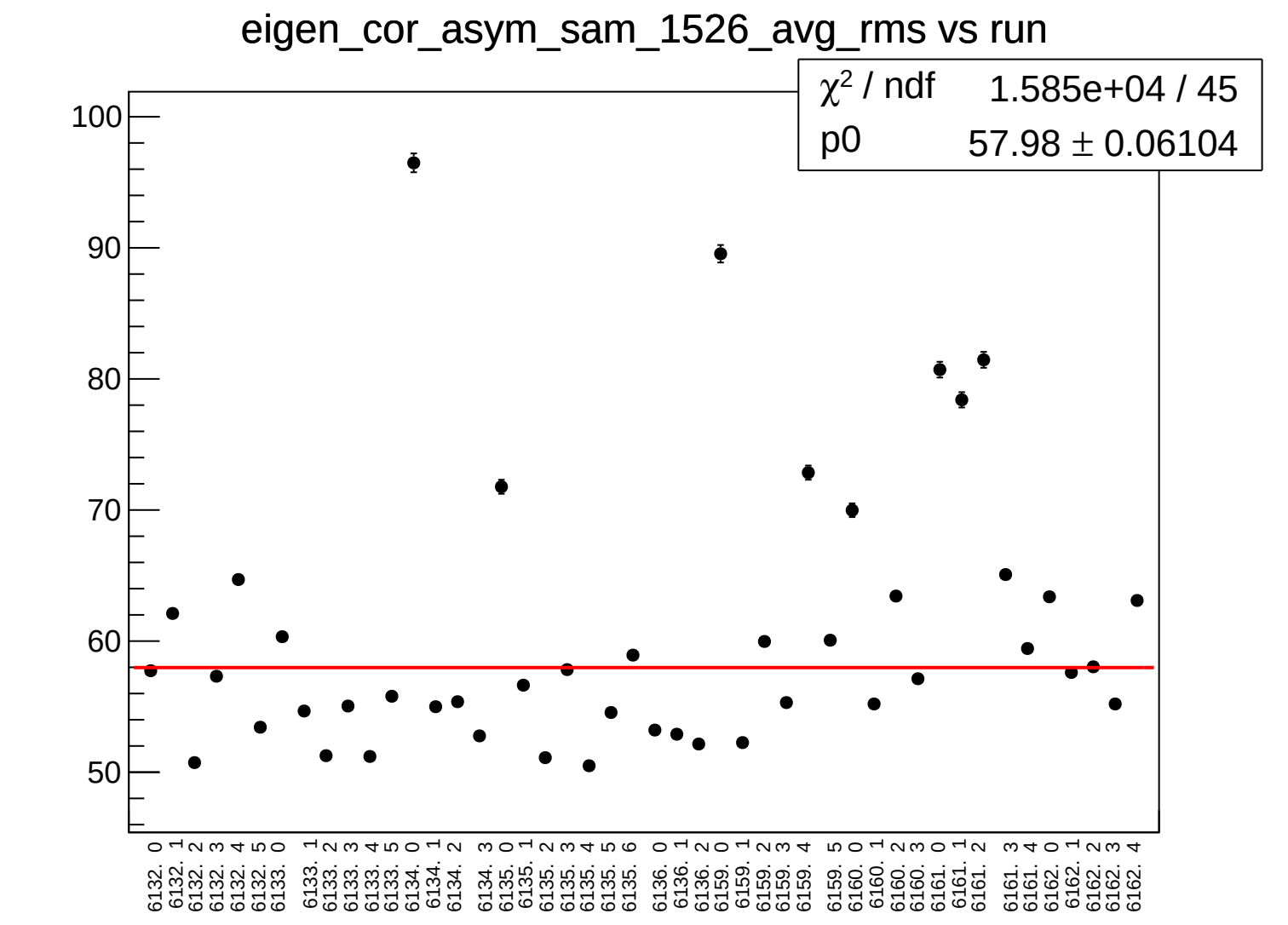
6162. 3
6162. 4


eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 46.17 / 45
p0 5.927 ± 86.32
pull
Entries 46
Mean −29.06
Std Dev 0


pull1D
Entries 46
Mean 0.008587
Std Dev 1.002


eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 1.585e+04 / 45
p0 57.98 ± 0.06104
100
90
80
70
60
50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
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
6159. 5
6160. 0
6160. 1
6160. 2
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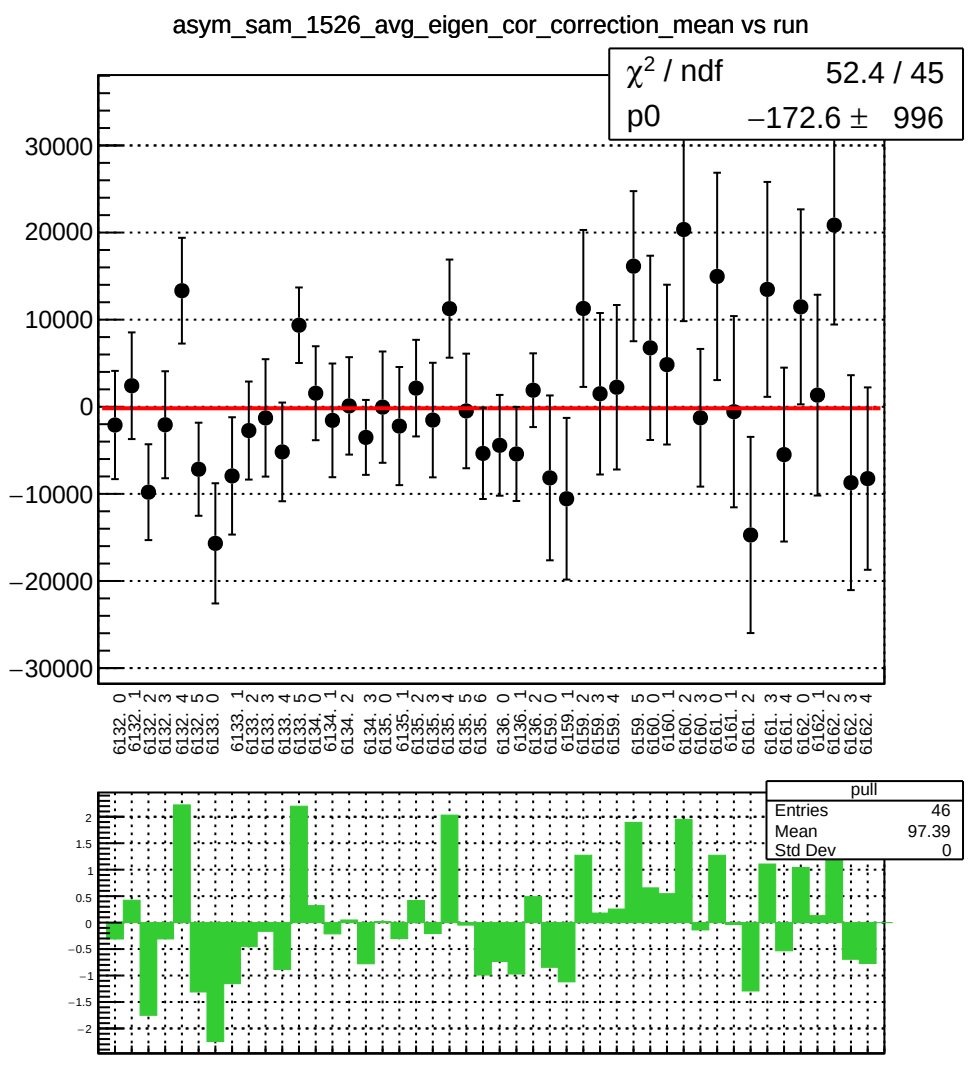
6162. 4


asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 52.4 / 45
p0 −172.6 ± 996
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
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6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 97.39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.04506
Std Dev 1.066
9
8
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5
4
3
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1
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−4
−2
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2
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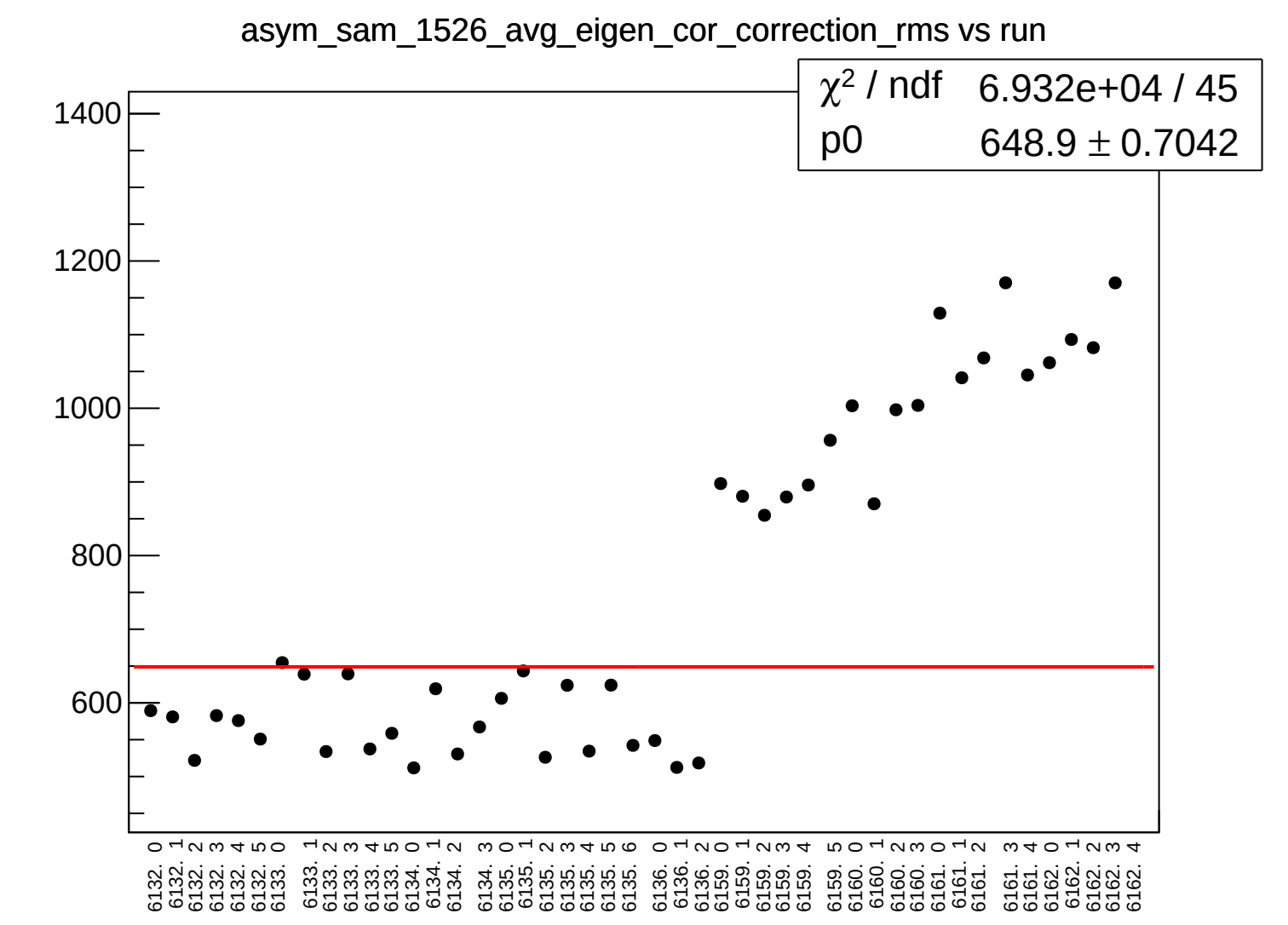
6
8


asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.932e+04 / 45
p0 648.9 ± 0.7042
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
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6162. 0
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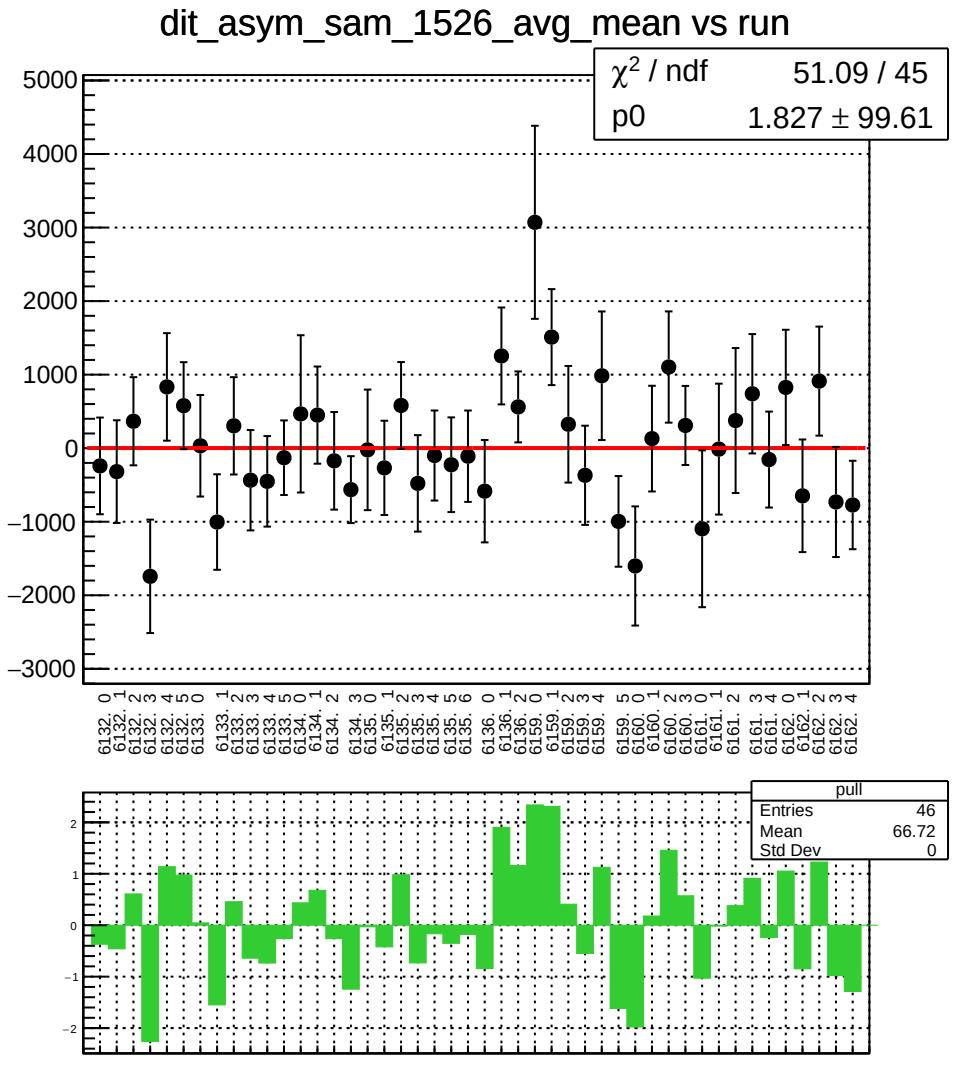
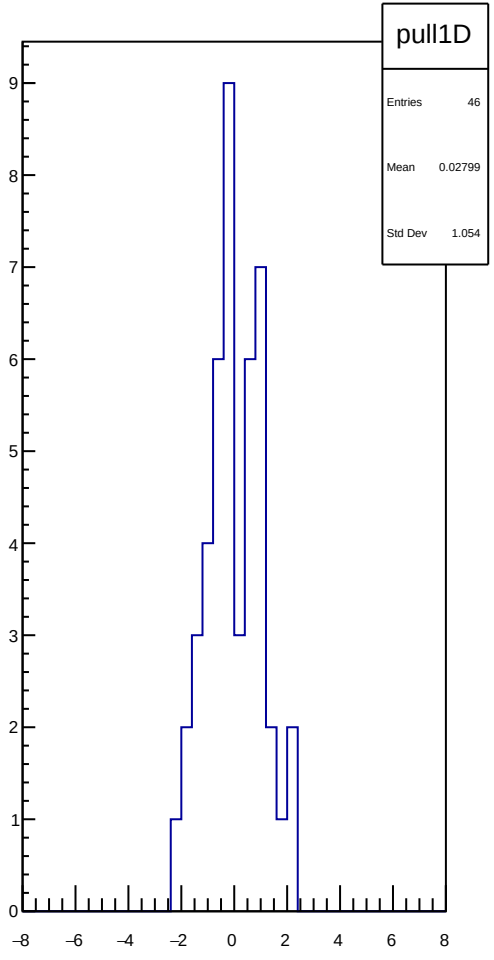
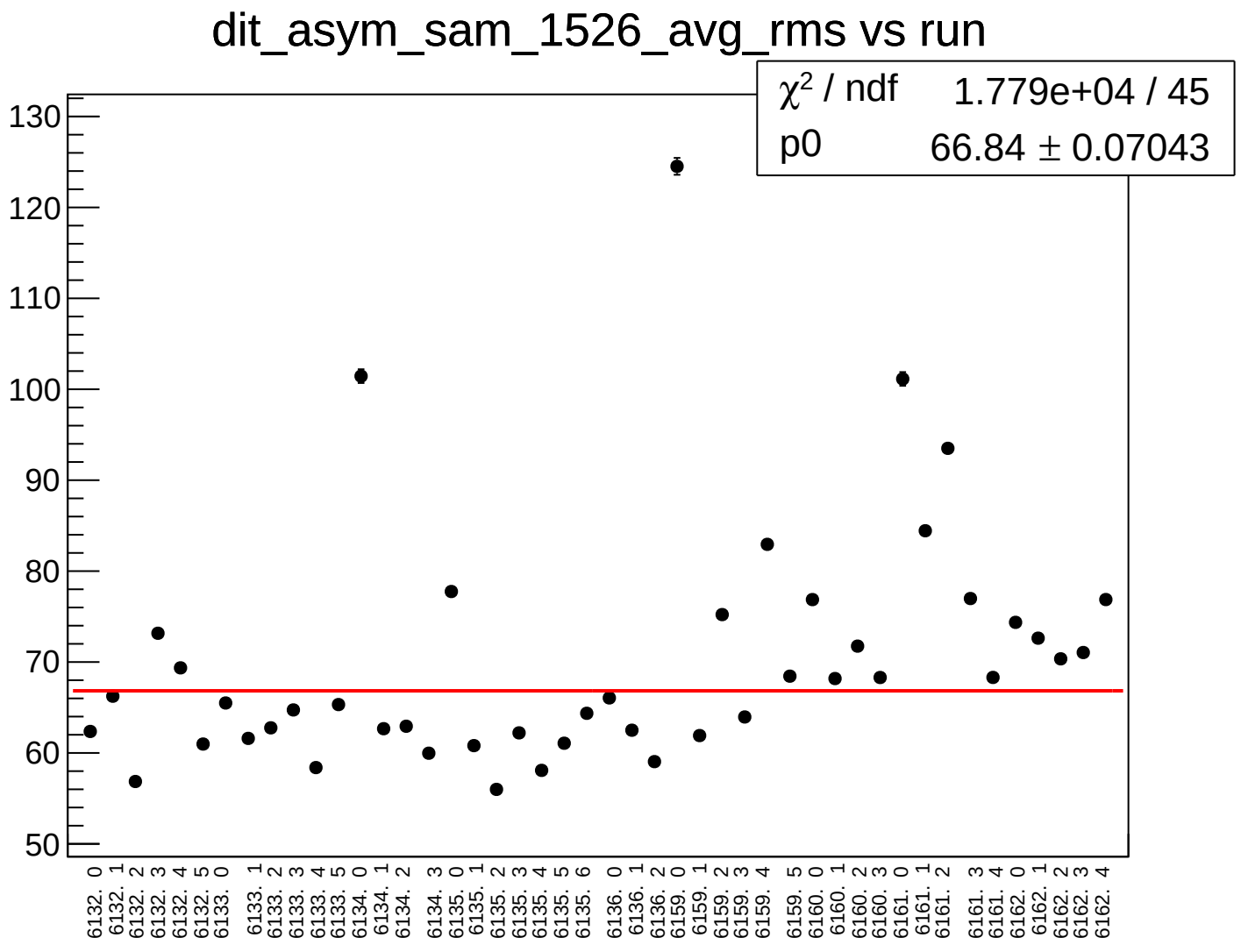
6162. 4


dit_asym_sam_1526_avg_mean vs run
χ² / ndf 51.09 / 45
p0 1.827 ± 99.61
pull
Entries 46
Mean 66.72
Std Dev 0


pull1D
Entries 46
Mean 0.02799
Std Dev 1.054


dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.779e+04 / 45
p0 66.84 ± 0.07043
130
120
110
100
90
80
70
60
50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6162. 0
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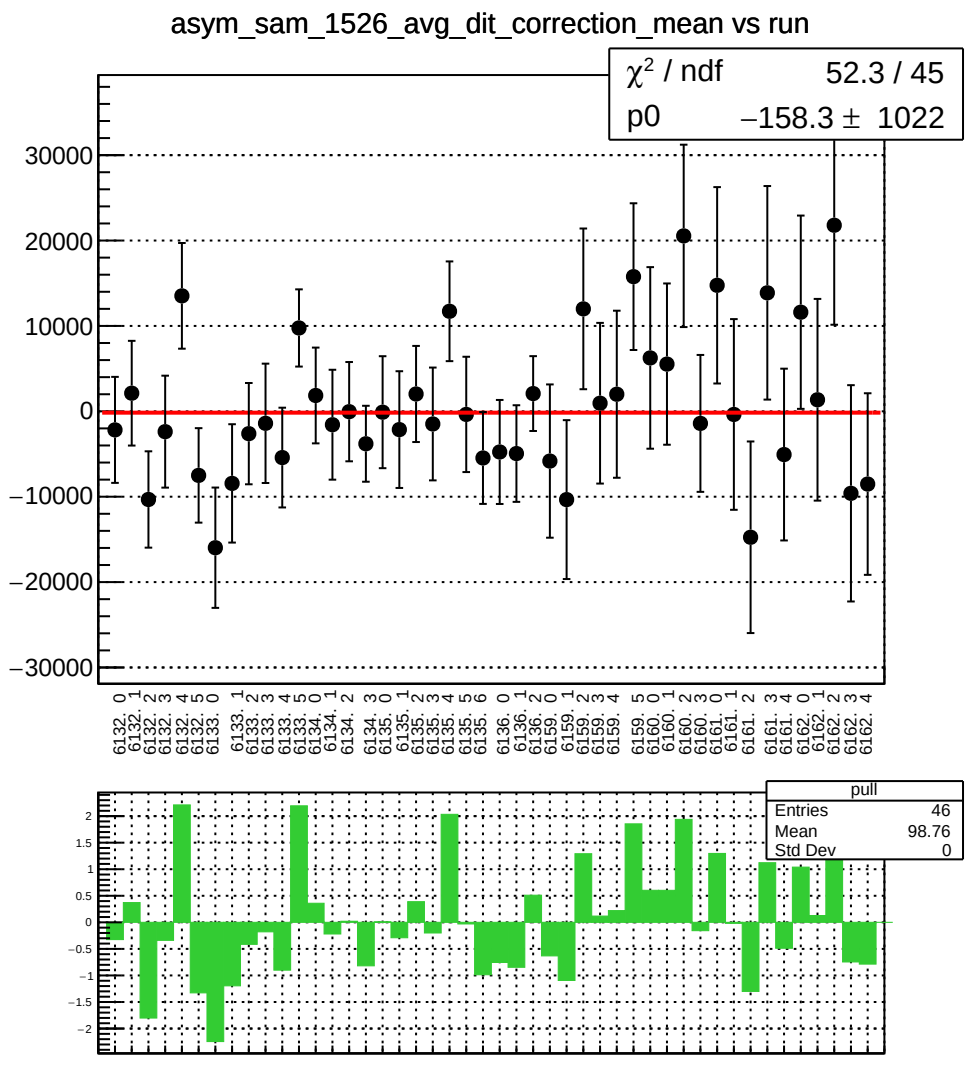
6162. 4


asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 52.3 / 45
p0 −158.3 ± 1022
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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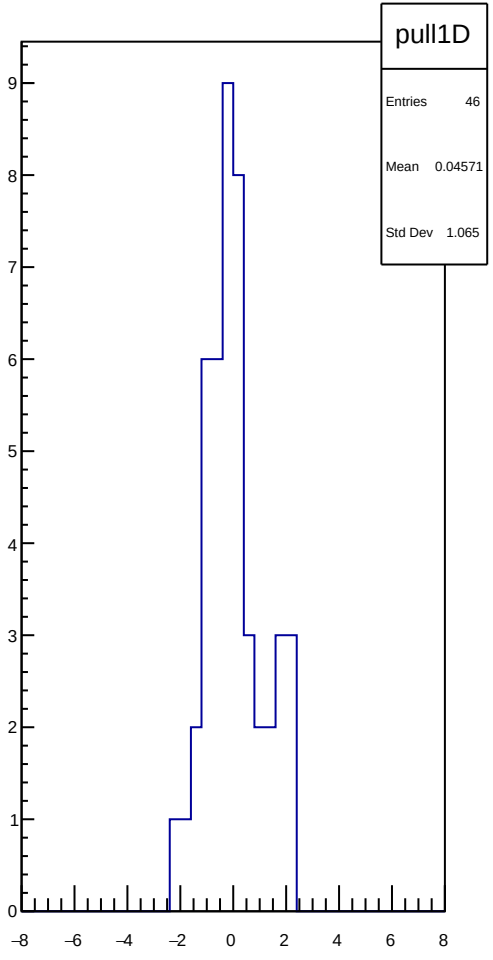
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 98.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.04571
Std Dev 1.065
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5
4
3
2
1
0
−8
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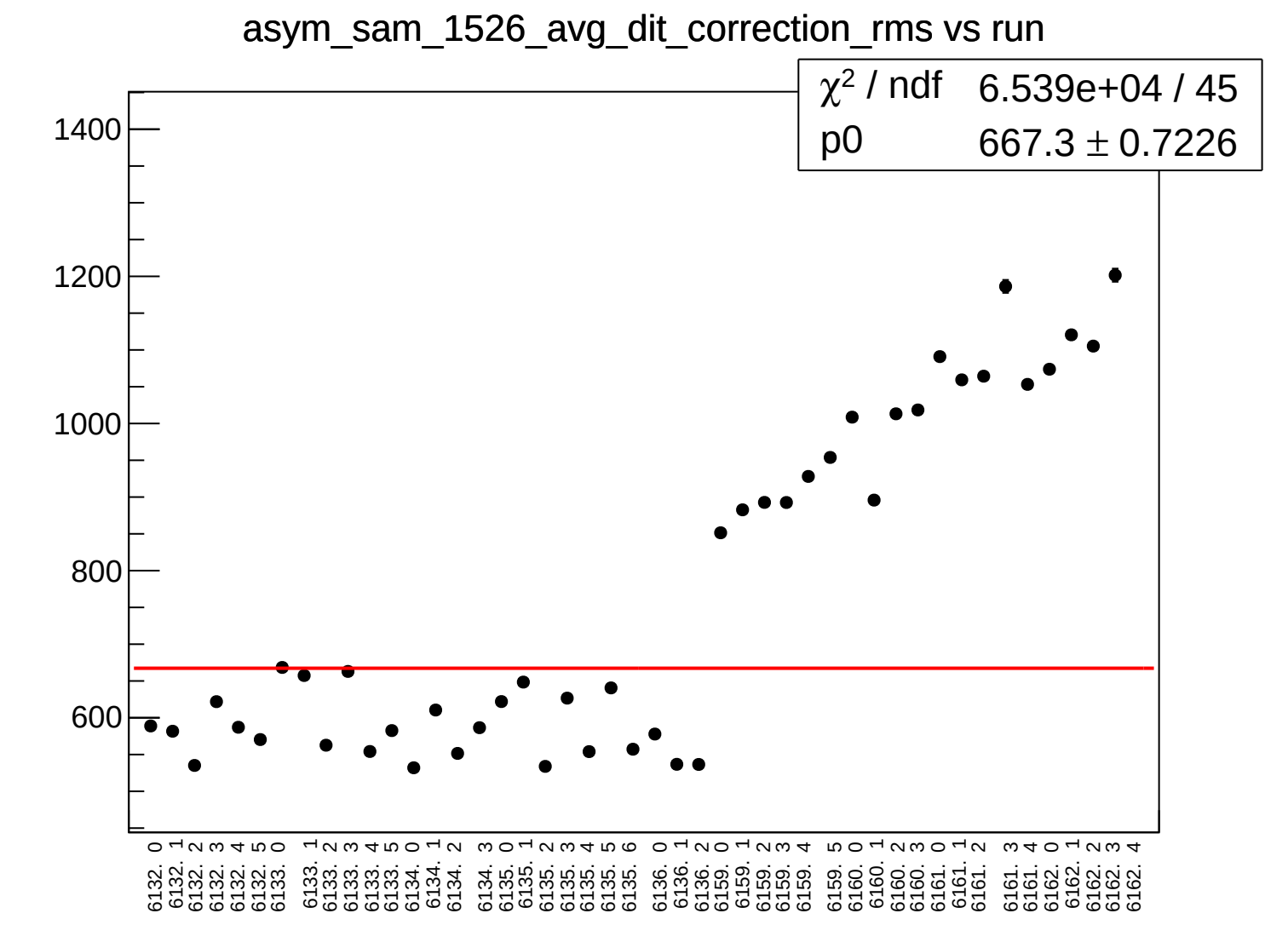
−4
−2
0
2
4
6
8


asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 6.539e+04 / 45
p0 667.3 ± 0.7226
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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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6159. 0
6159. 1
6159. 2
6159. 3
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6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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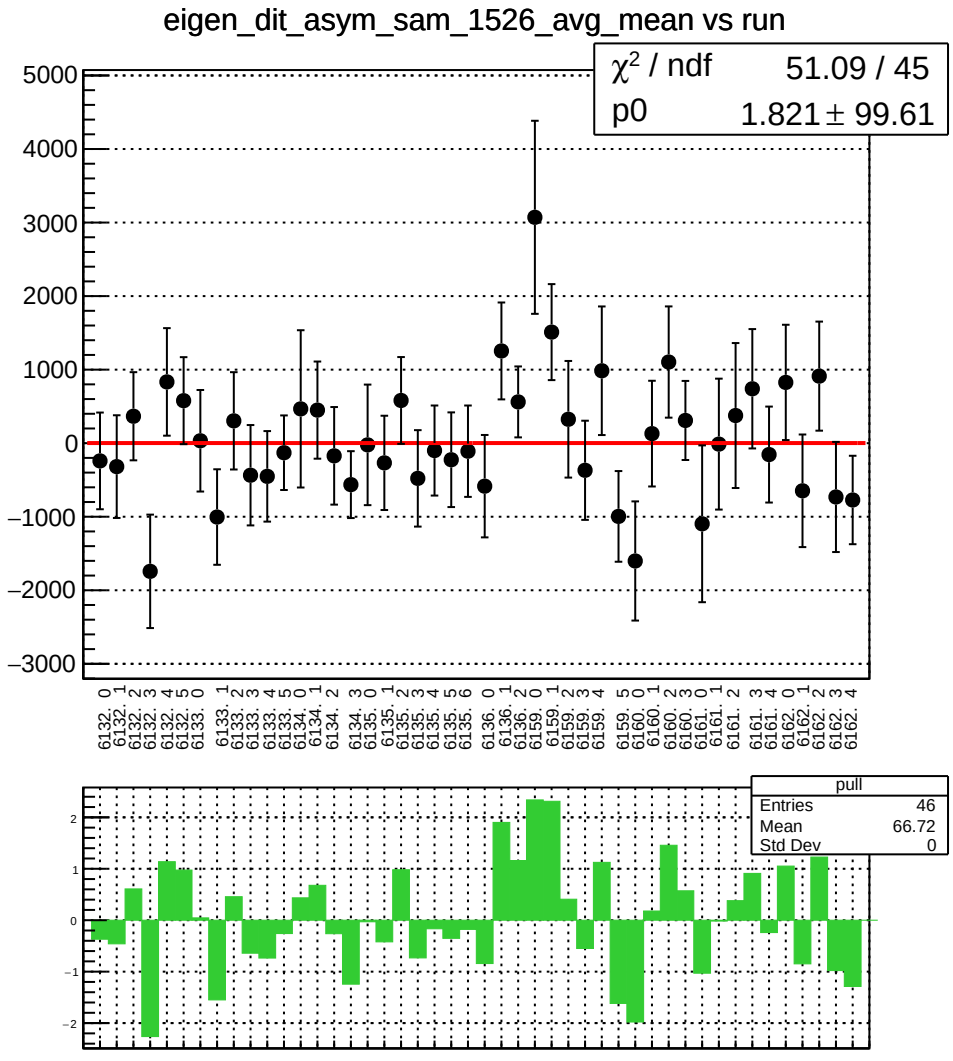
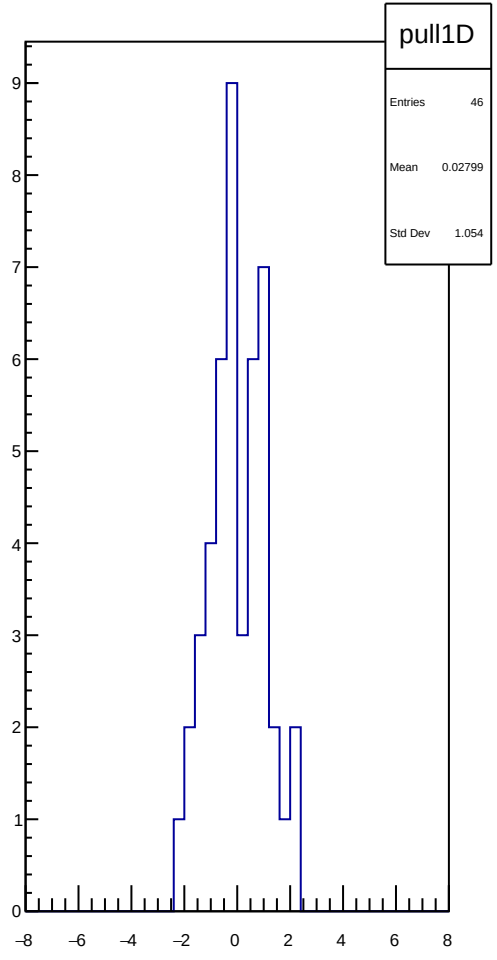
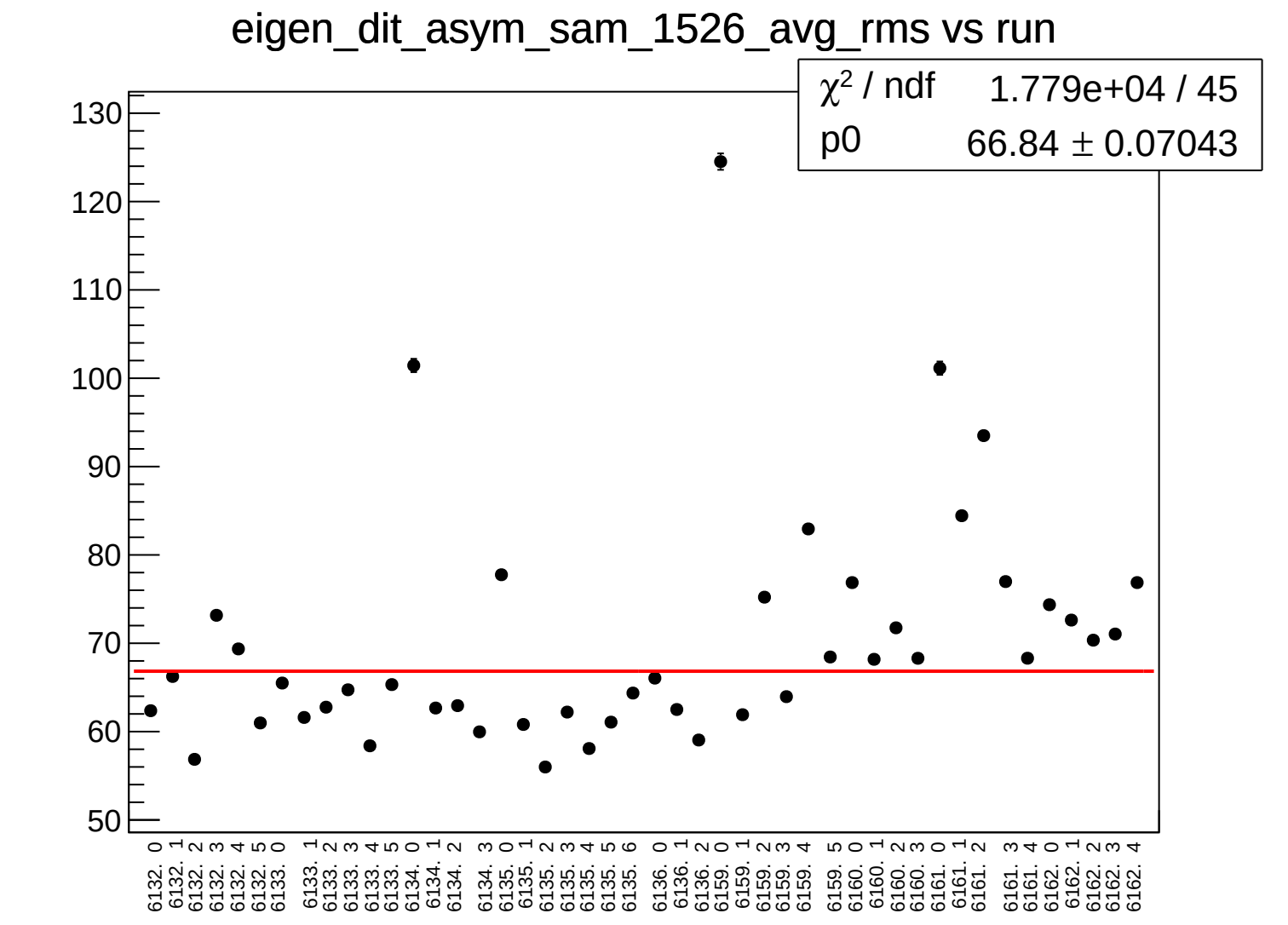
6162. 3
6162. 4


eigen_dit_asym_sam_1526_avg_mean vs run
χ^2 / ndf 51.09 / 45
p0 1.821 ± 99.61
pull
Entries 46
Mean 66.72
Std Dev 0


pull1D
Entries 46
Mean 0.02799
Std Dev 1.054


eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.779e+04 / 45
p0 66.84 ± 0.07043
130
120
110
100
90
80
70
60
50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 3
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6160. 2
6160. 3
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6161. 2
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6161. 4
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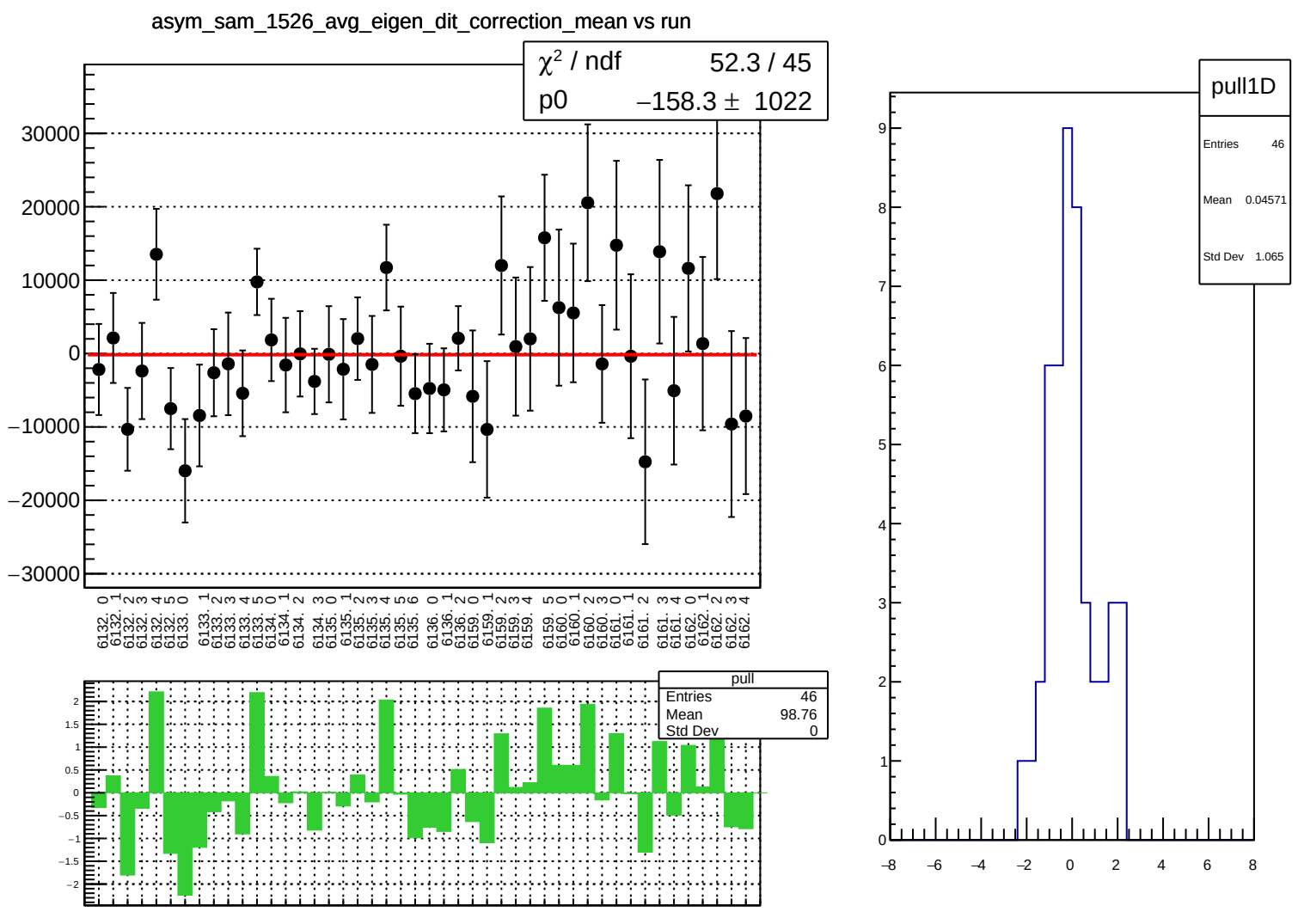
6162. 4


asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 52.3 / 45
p0 −158.3 ± 1022
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
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6135. 6
6136. 0
6136. 1
6136. 2
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6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 98.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.04571
Std Dev 1.065
9
8
7
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5
4
3
2
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−4
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2
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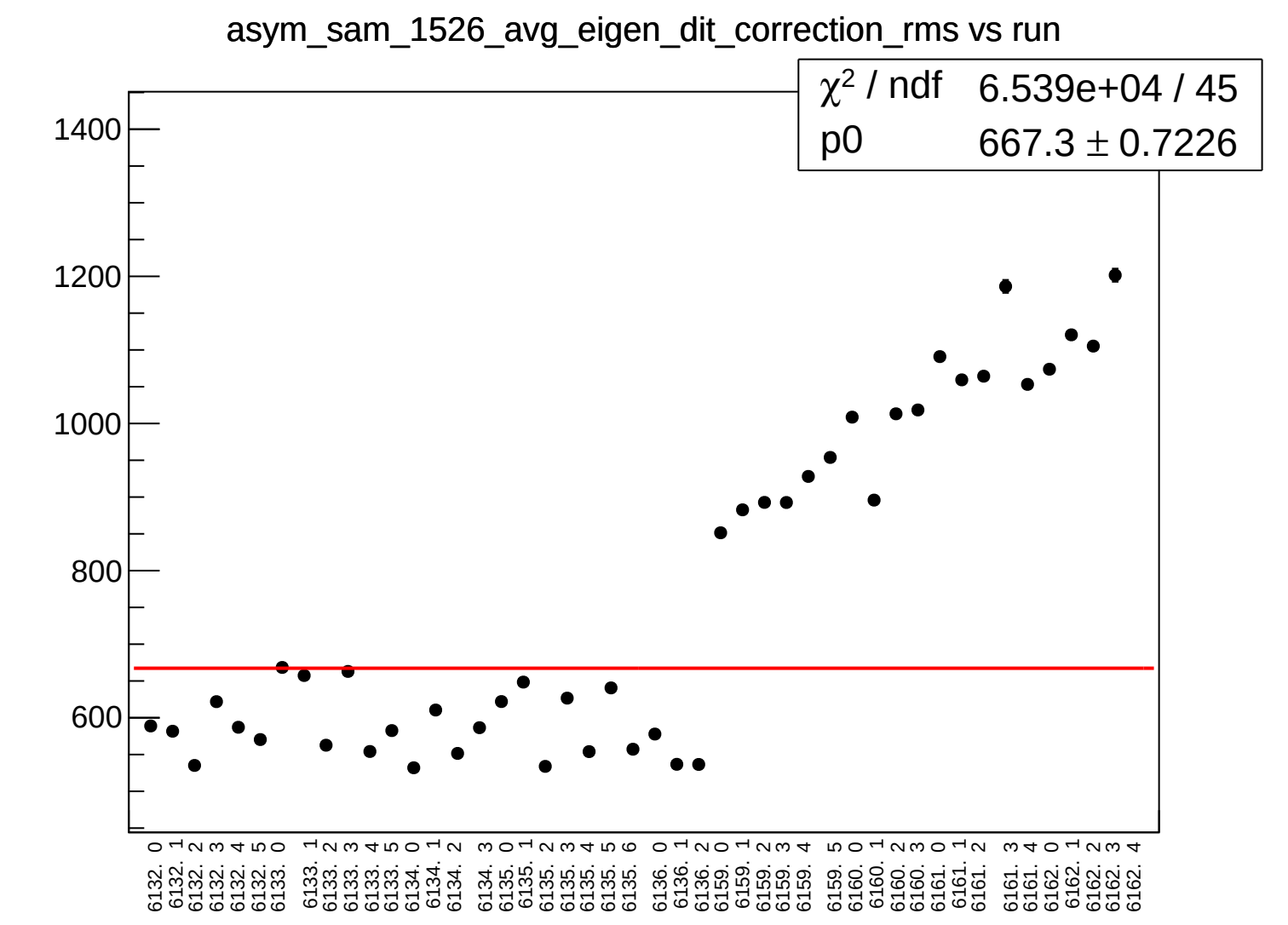
6
8


asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 6.539e+04 / 45
p0 667.3 ± 0.7226
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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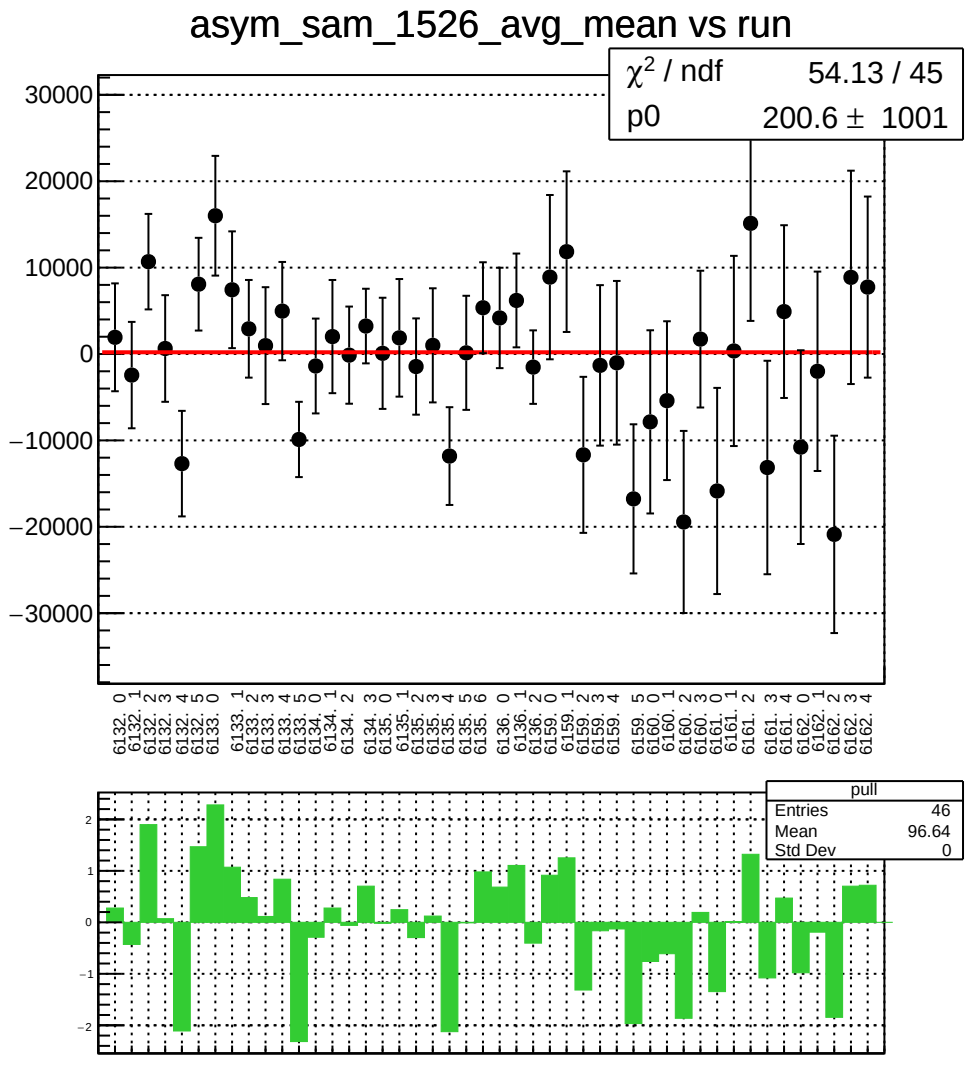
6162. 4


asym_sam_1526_avg_mean vs run
χ² / ndf 54.13 / 45
p0 200.6 ± 1001
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6160. 0
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6160. 2
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6161. 4
6162. 0
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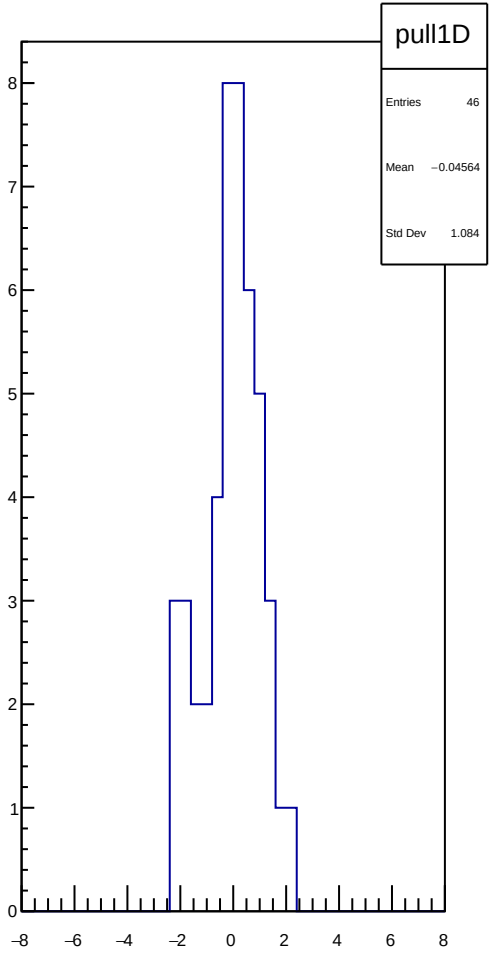
6162. 3
6162. 4
pull
Entries 46
Mean 96.64
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.04564
Std Dev 1.084
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5
4
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−4
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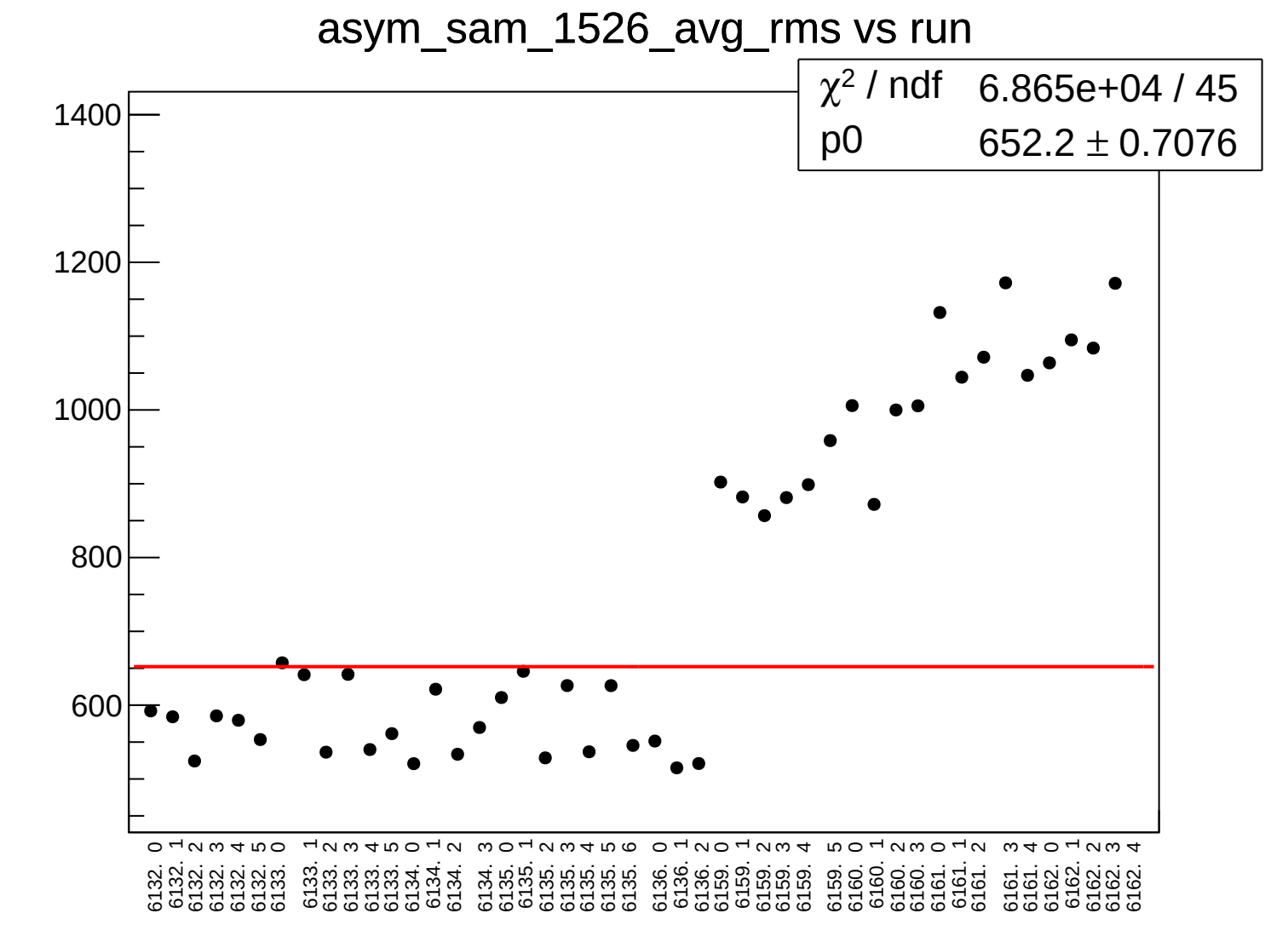
2
4
6
8


asym_sam_1526_avg_rms vs run
χ² / ndf 6.865e+04 / 45
p0 652.2 ± 0.7076
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6134. 0
6134. 1
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6160. 1
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6161. 4
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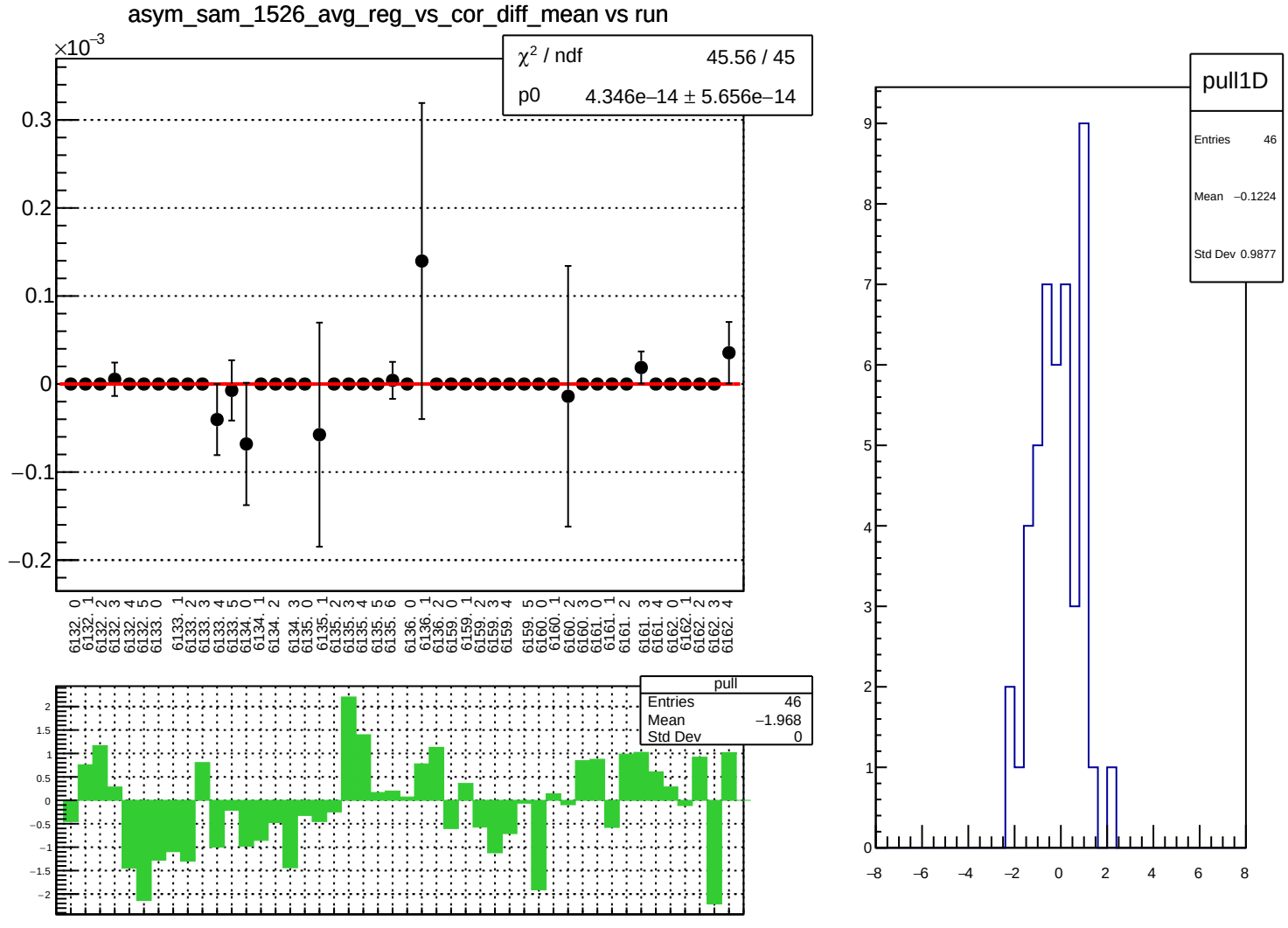
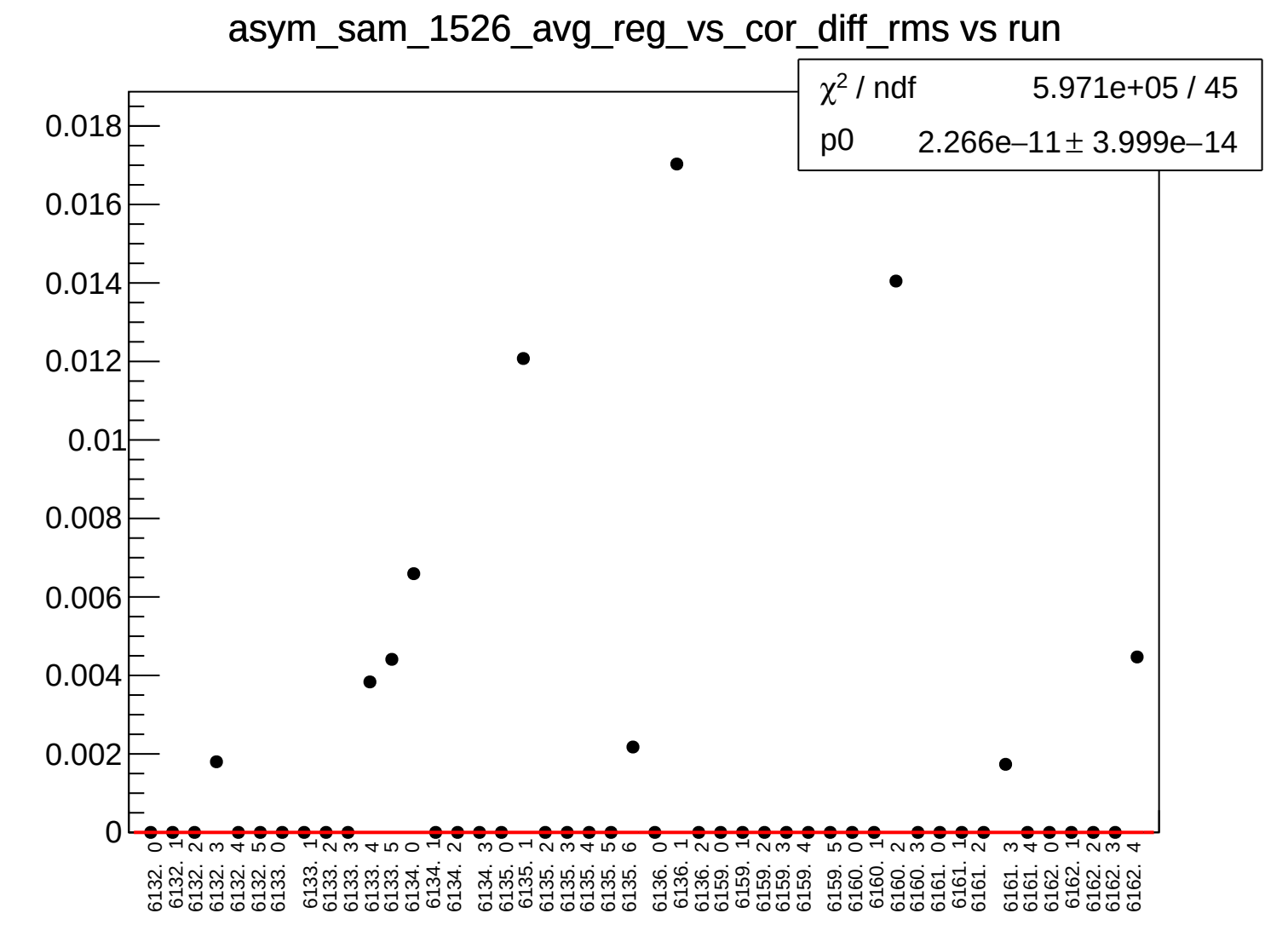
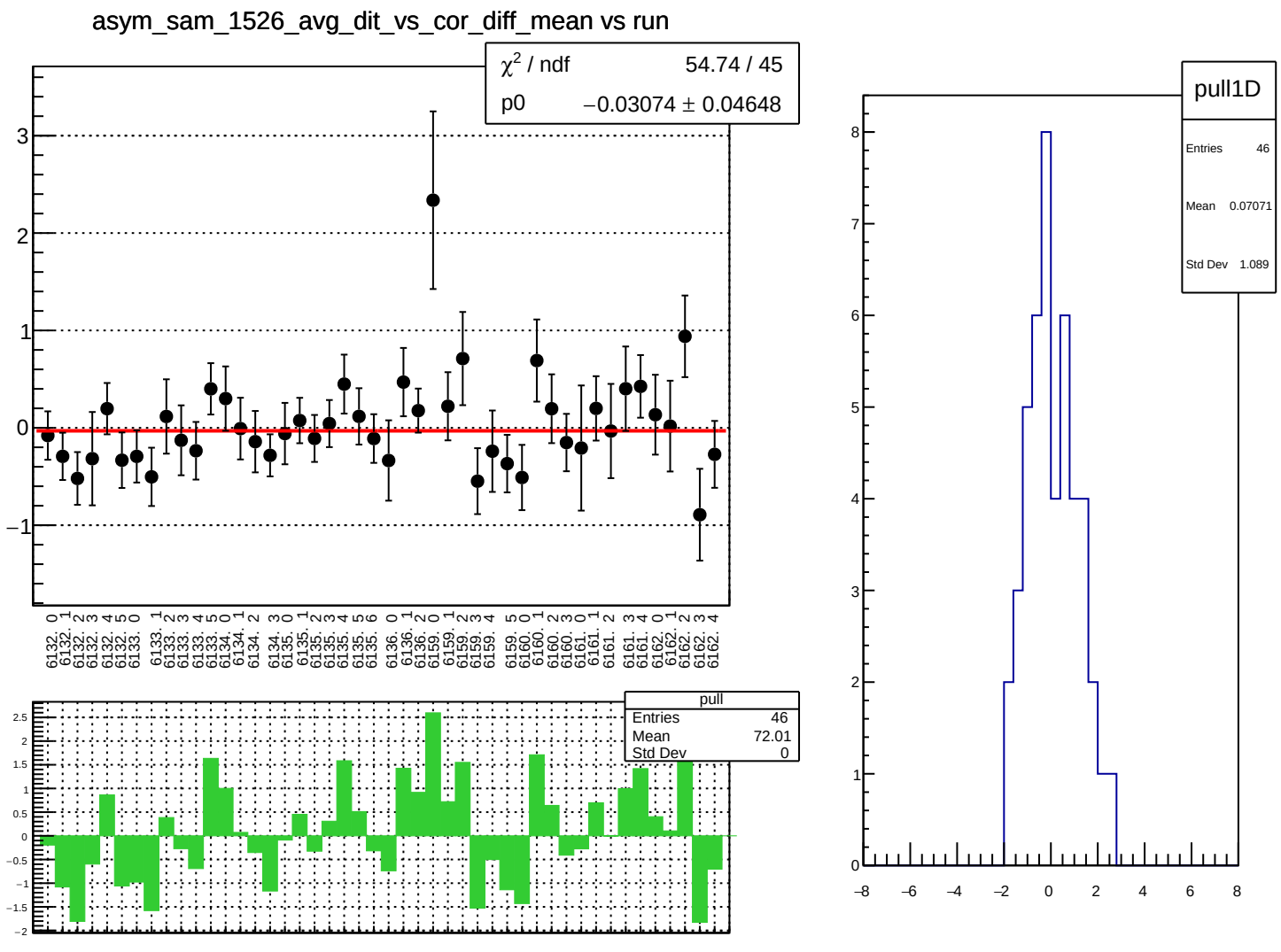
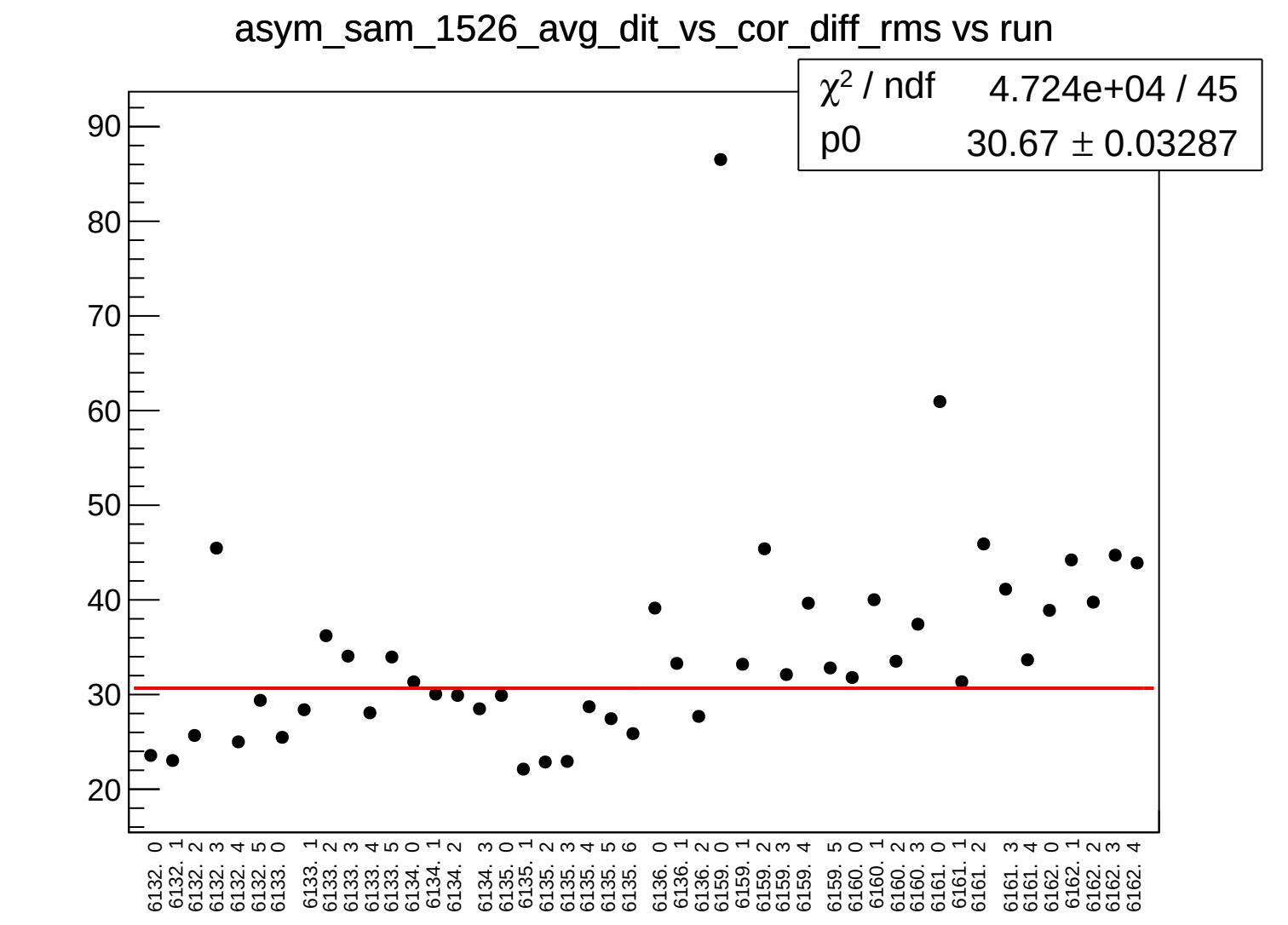
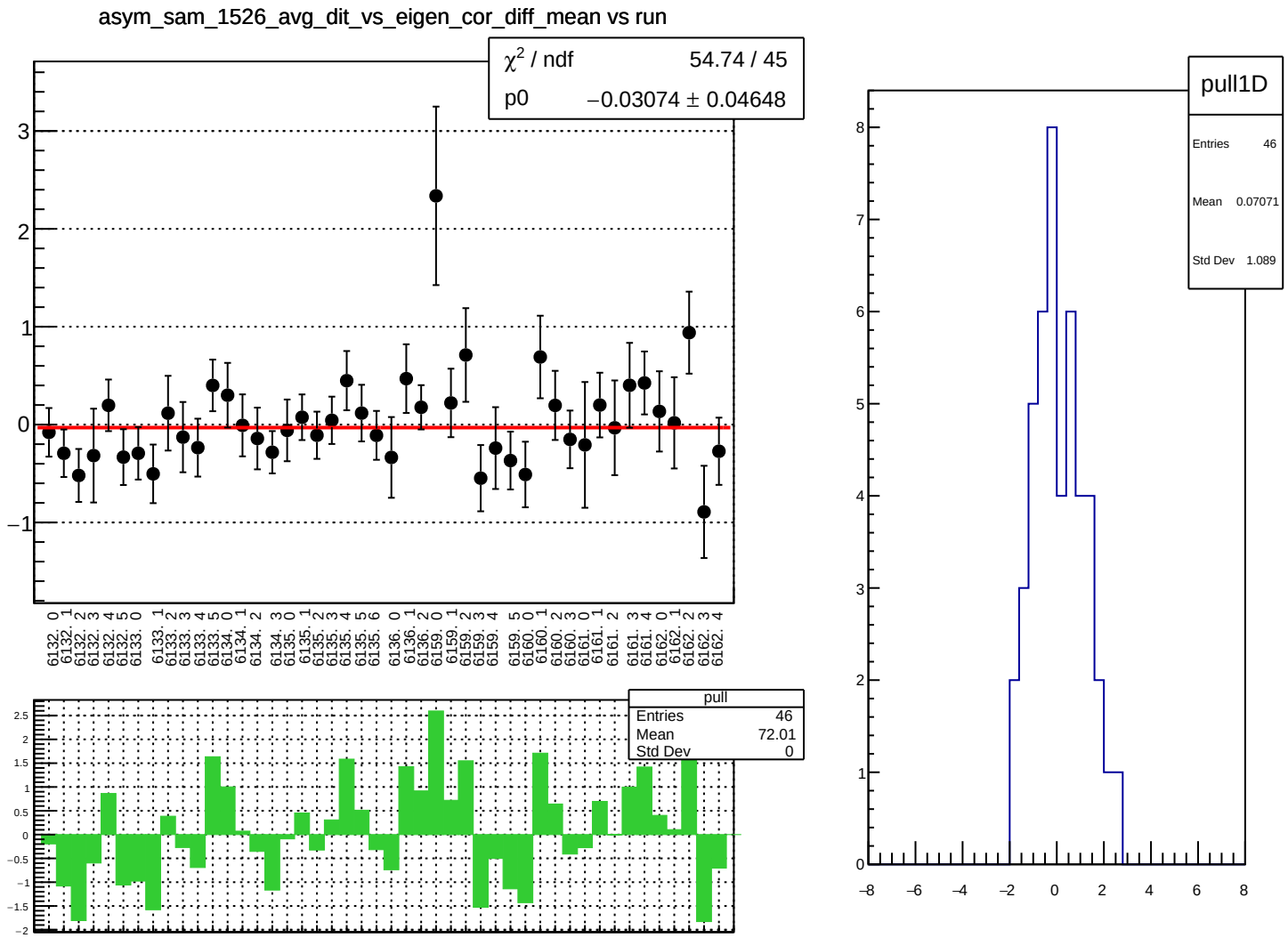
6162. 4

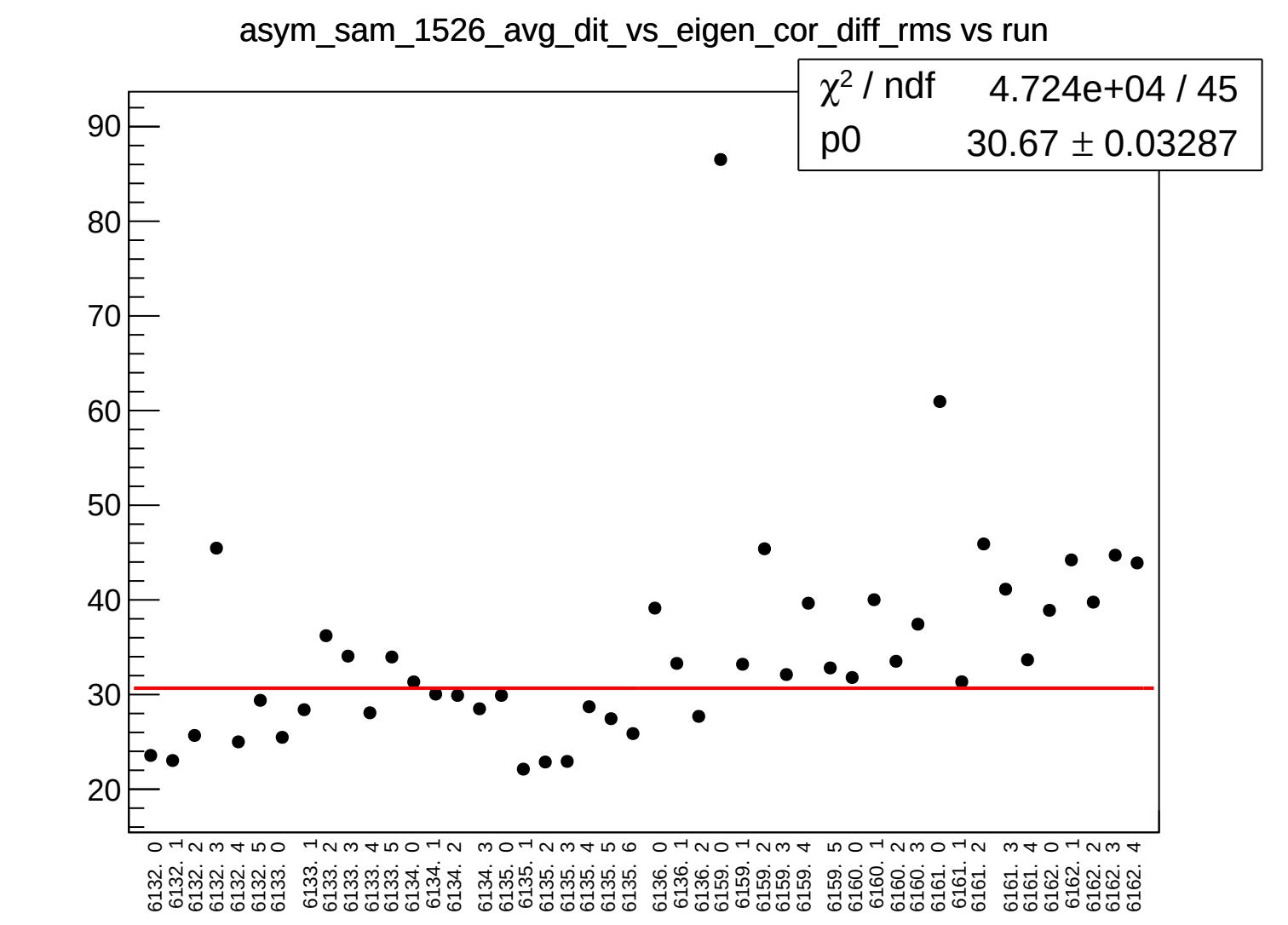

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 45.56 / 45
p0 4.346e−14 ± 5.656e−14
0.3
0.2
0.1
0
−0.1
−0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1.968
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.1224
Std Dev 0.9877
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

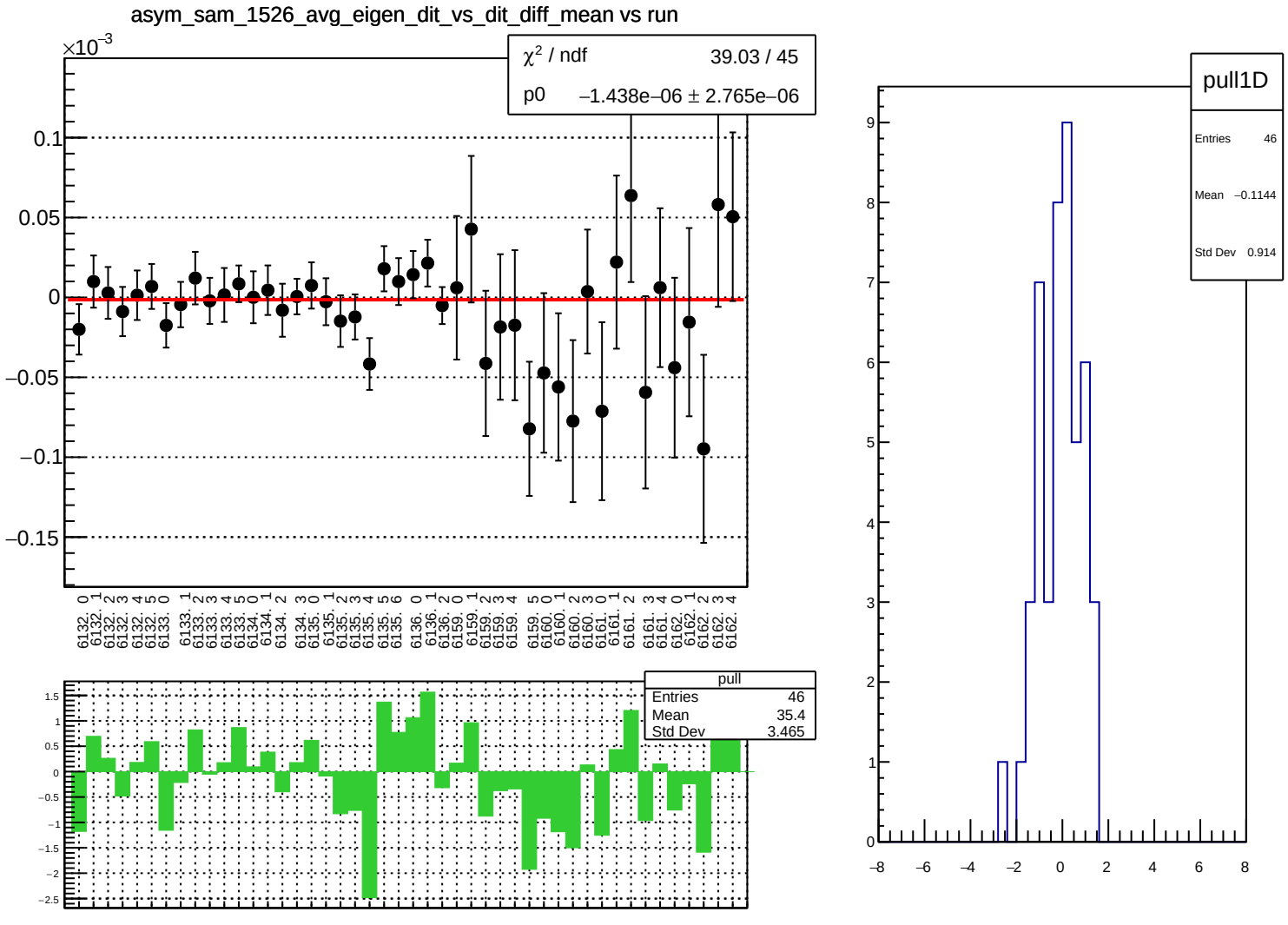

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.971e+05 / 45
p0 2.266e−11 ± 3.999e−14
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

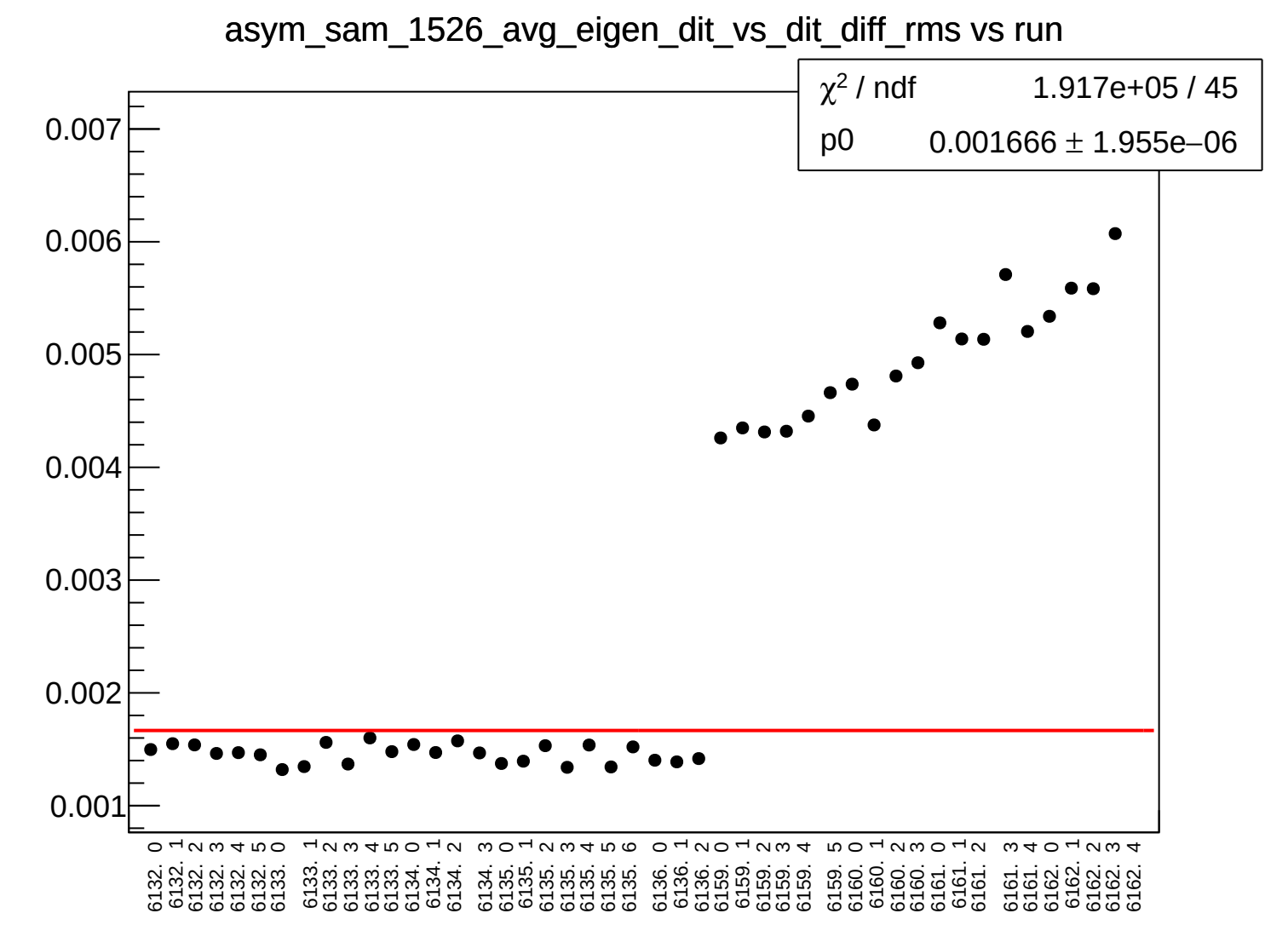

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 54.74 / 45
p0 −0.03074 ± 0.04648
pull
Entries 46
Mean 72.01
Std Dev 0
pull1D
Entries 46
Mean 0.07071
Std Dev 1.089

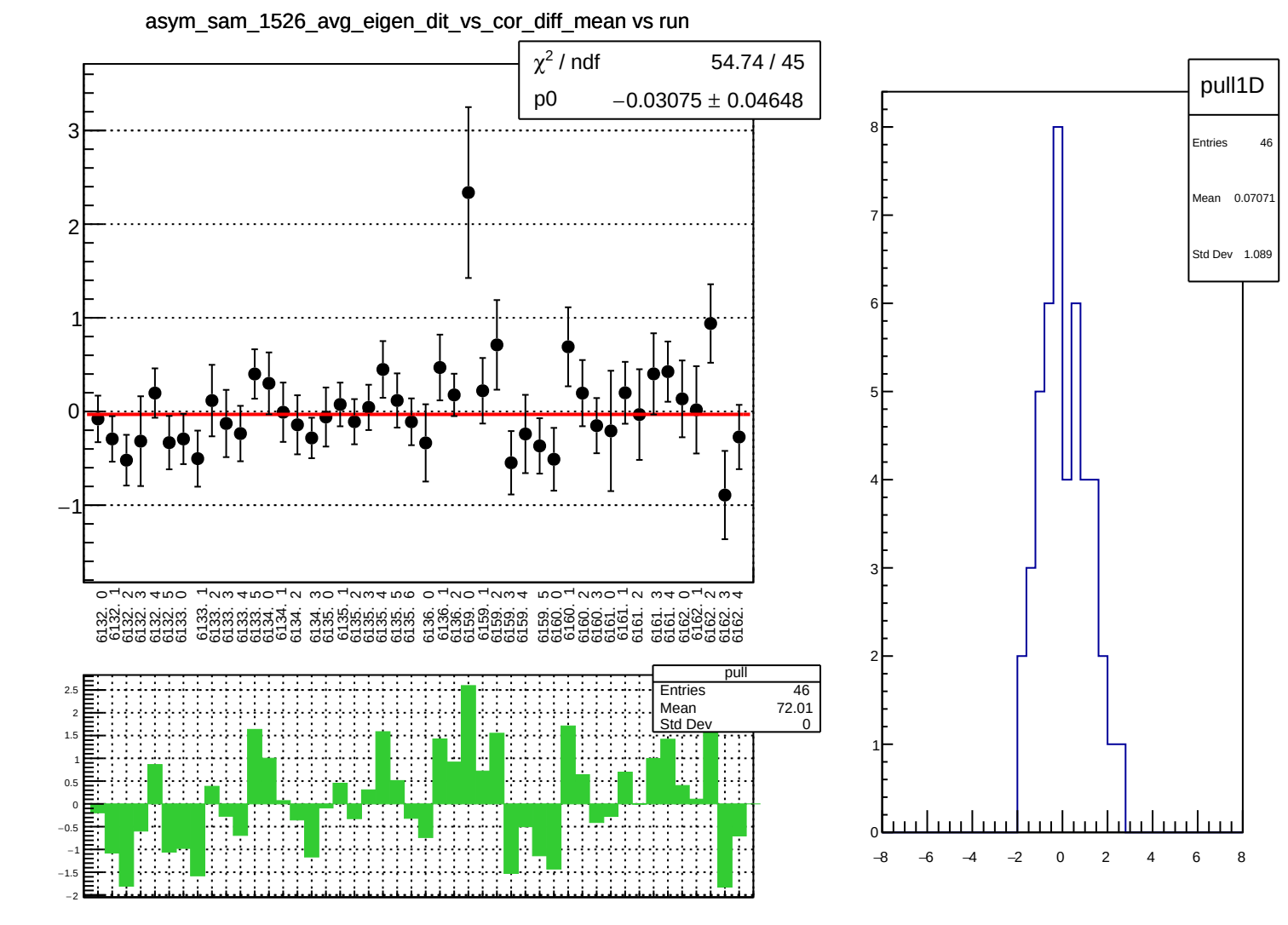

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.724e+04 / 45
p0 30.67 ± 0.03287
90
80
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

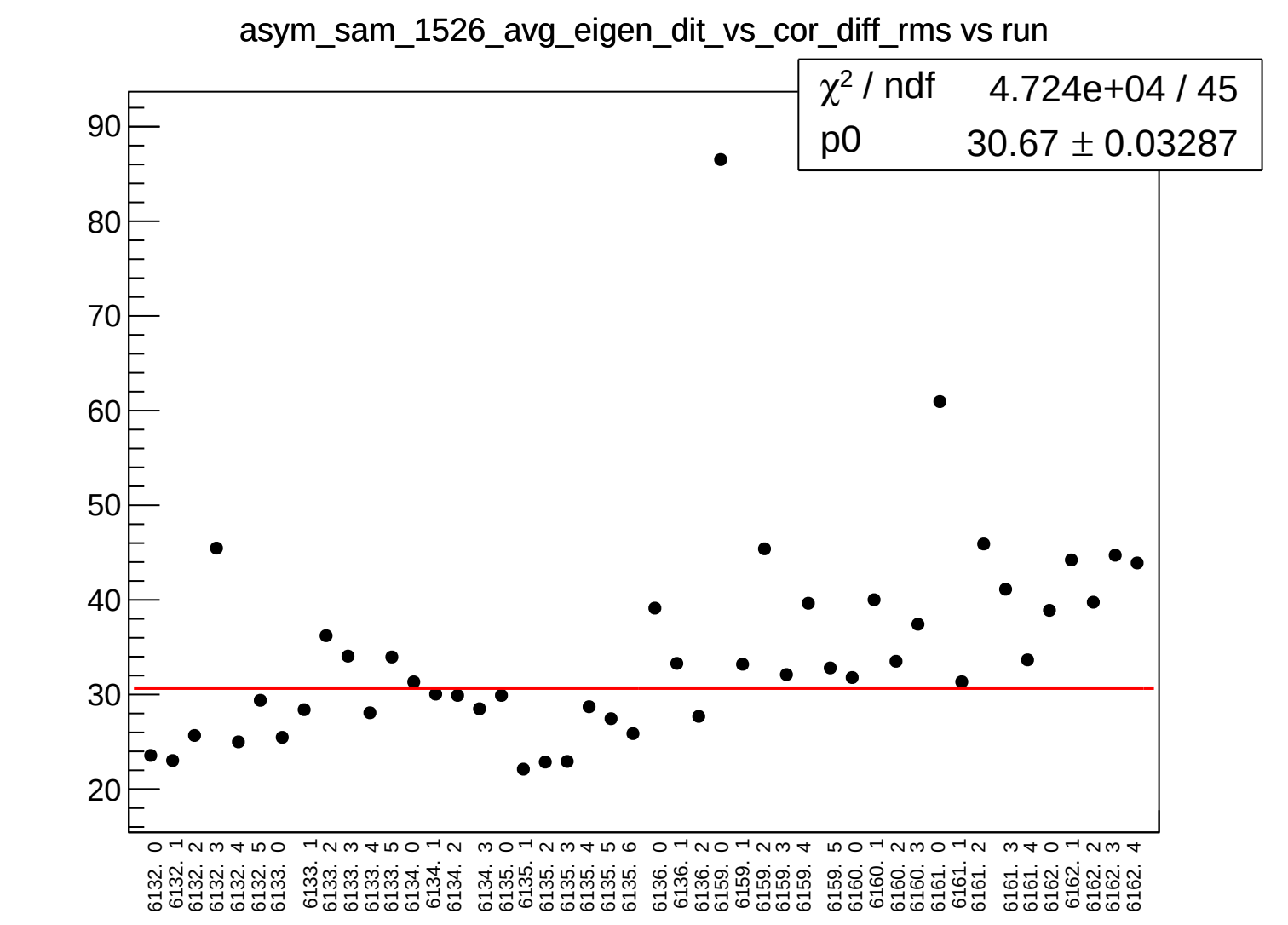

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.74 / 45
p0 −0.03074 ± 0.04648
pull
Entries 46
Mean 72.01
Std Dev 0
pull1D
Entries 46
Mean 0.07071
Std Dev 1.089

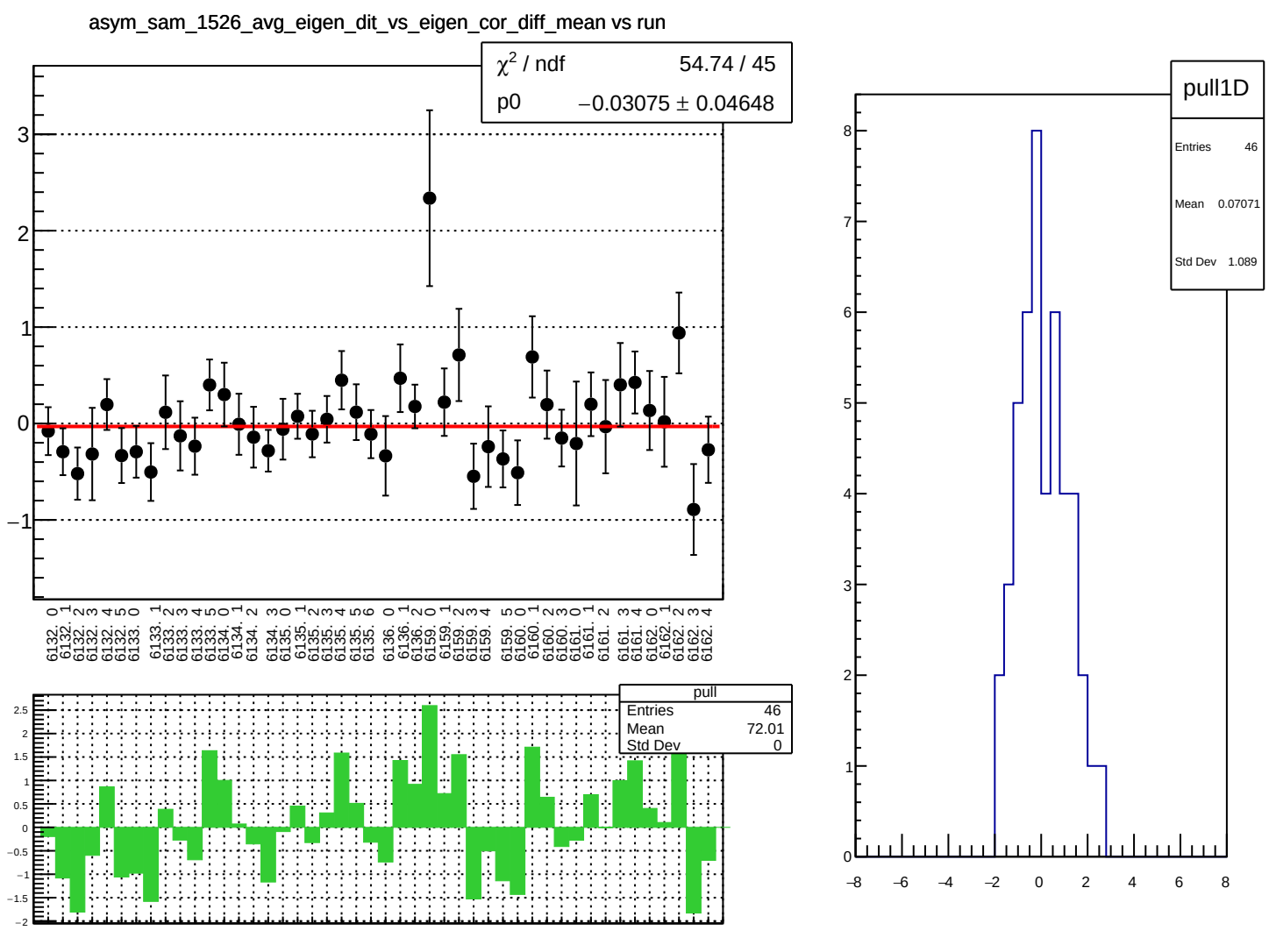

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.724e+04 / 45
p0 30.67 ± 0.03287
90
80
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

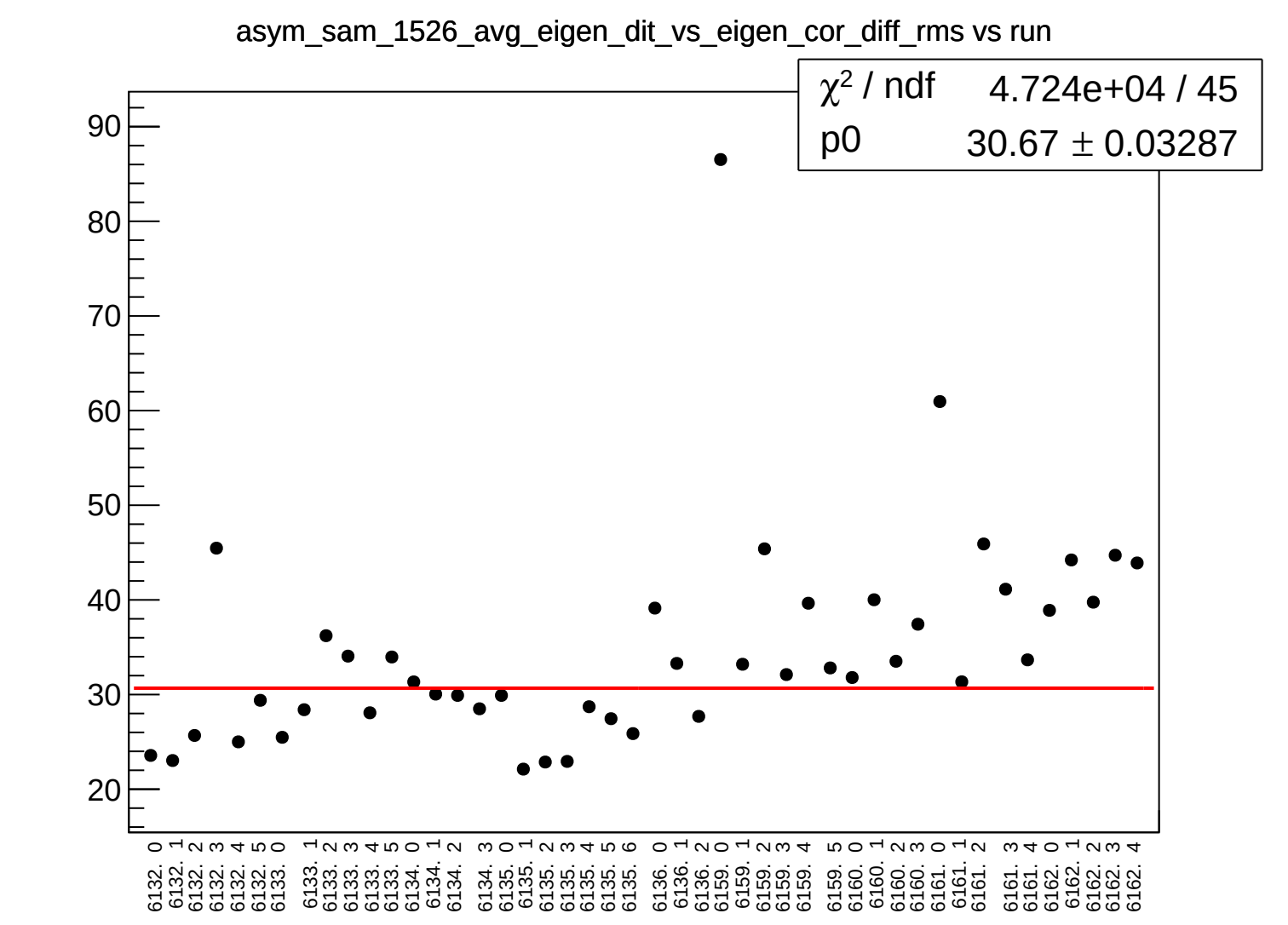

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 39.03 / 45
p0 −1.438e−06 ± 2.765e−06
0.1
0.05
0
−0.05
−0.1
−0.15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 35.4
Std Dev 3.465
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.1144
Std Dev 0.914
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

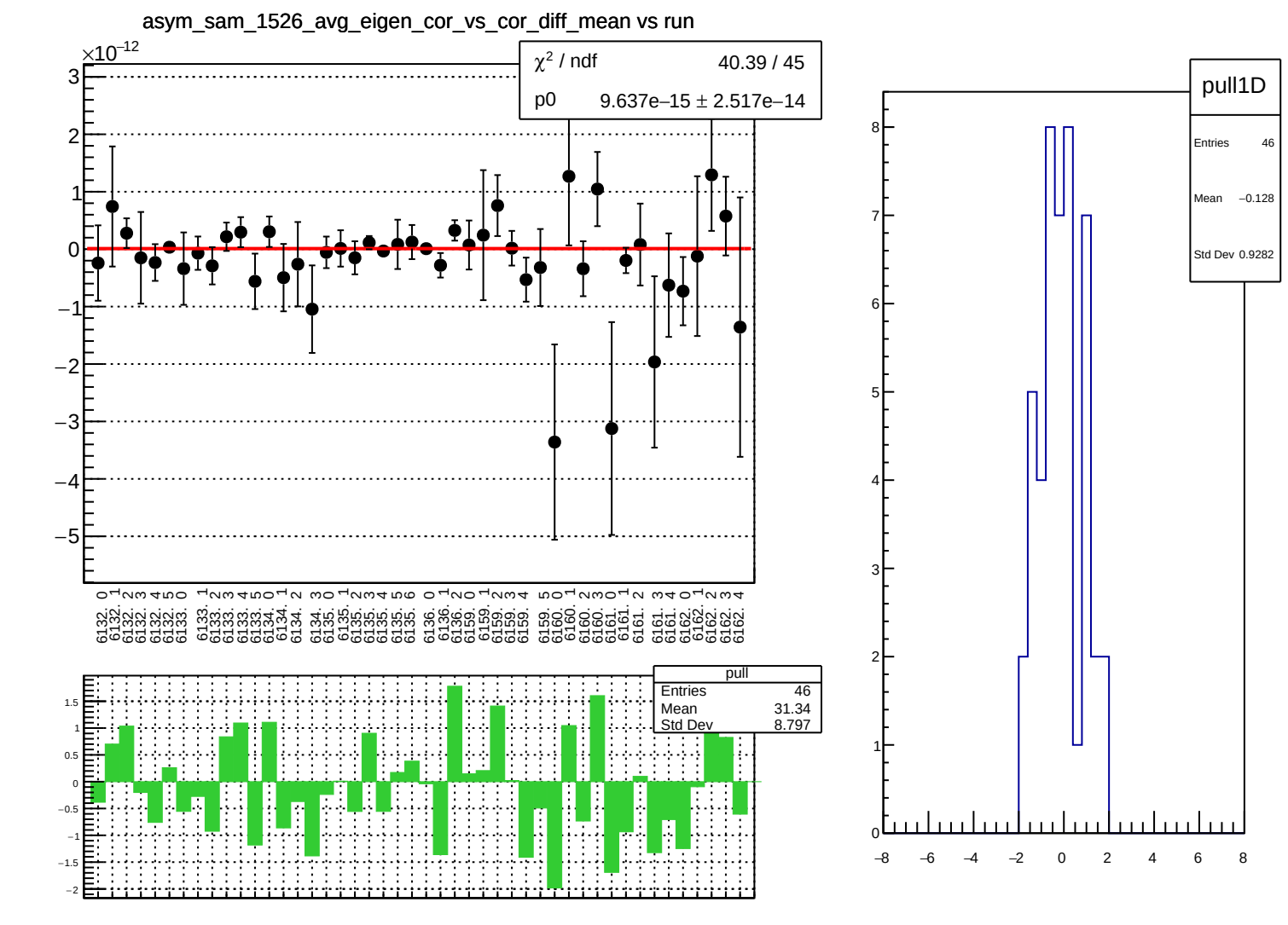

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.917e+05 / 45
p0 0.001666 ± 1.955e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

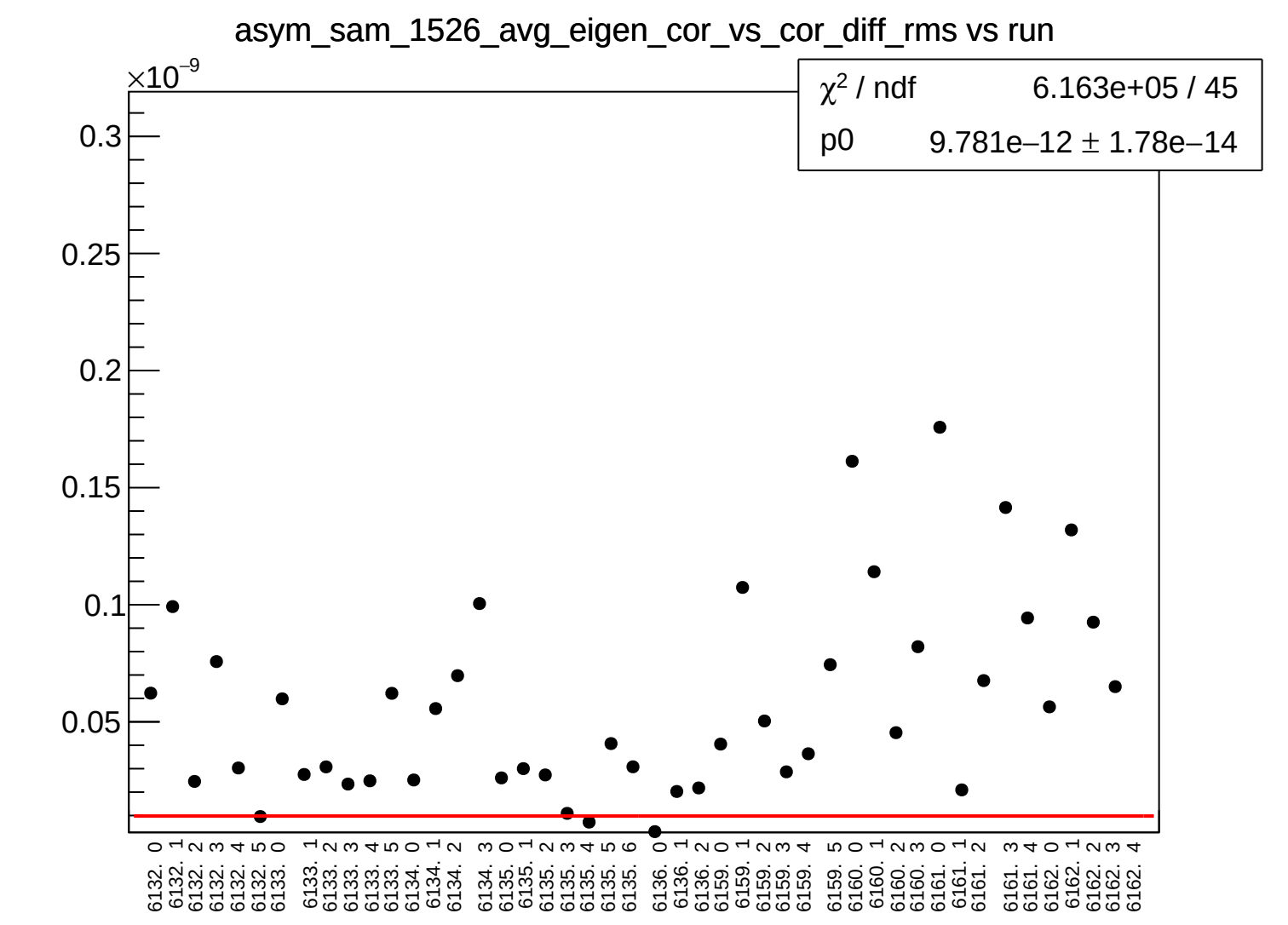

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 54.74 / 45
p0 −0.03075 ± 0.04648
pull
Entries 46
Mean 72.01
Std Dev 0
pull1D
Entries 46
Mean 0.07071
Std Dev 1.089

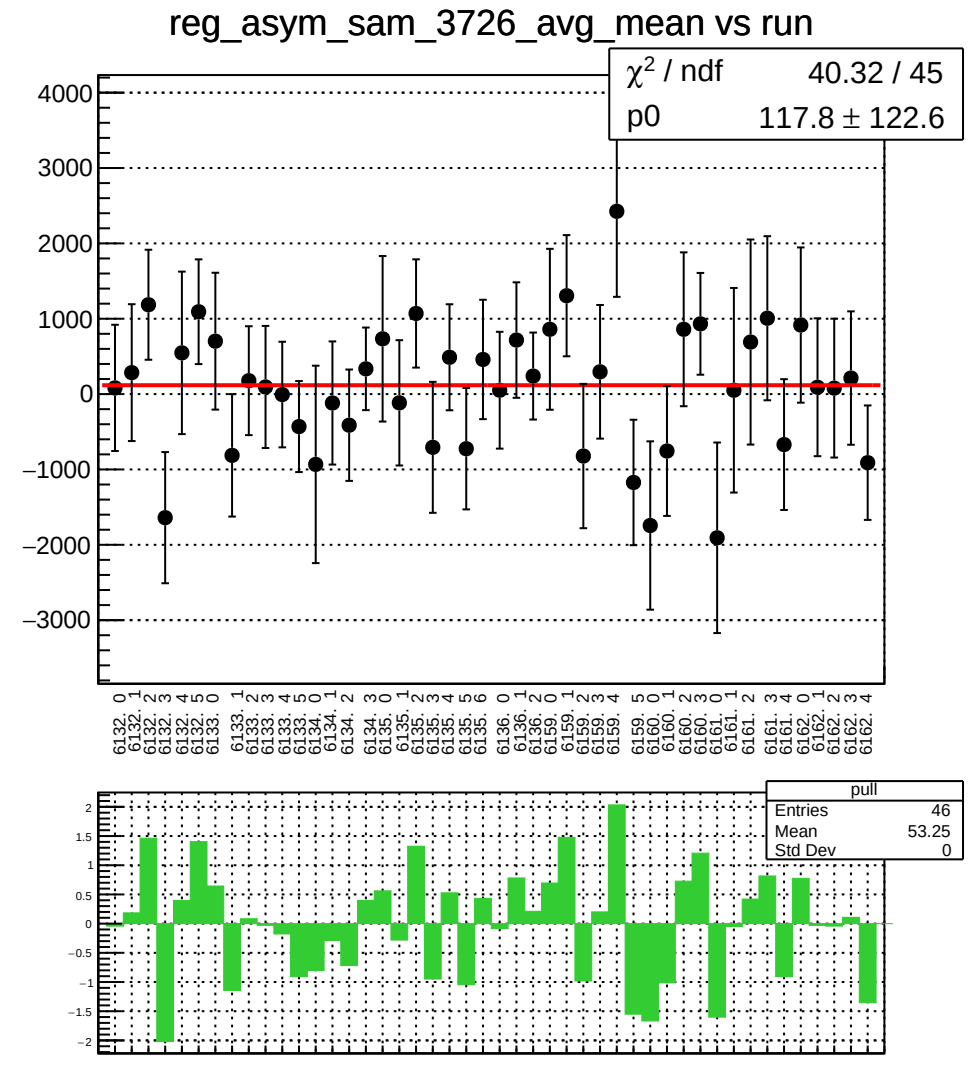

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.724e+04 / 45
p0 30.67 ± 0.03287
90
80
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

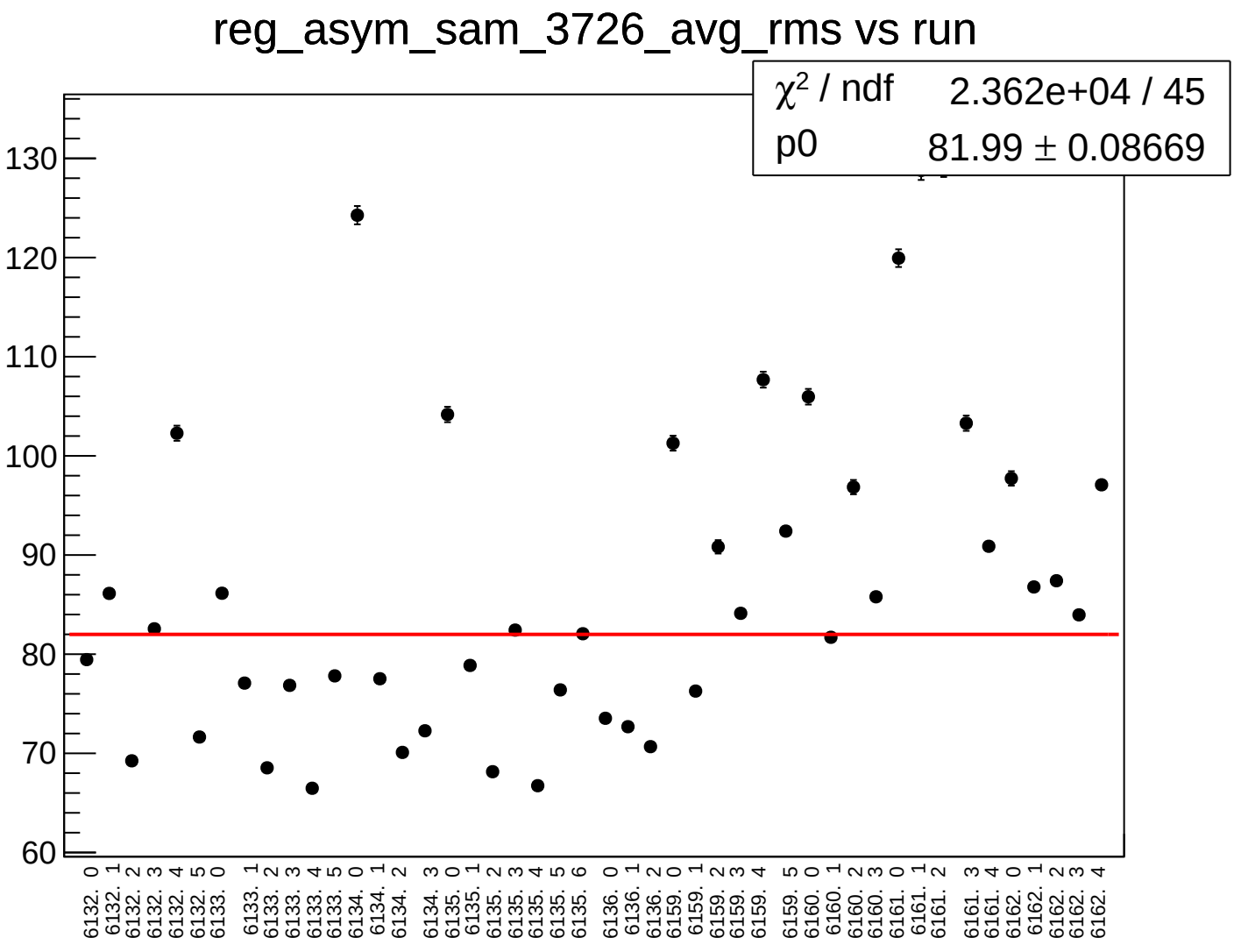

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.74 / 45
p0 −0.03075 ± 0.04648
pull
Entries 46
Mean 72.01
Std Dev 0
pull1D
Entries 46
Mean 0.07071
Std Dev 1.089


asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.724e+04 / 45
p0 30.67 ± 0.03287
90
80
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.39 / 45
p0 9.637e−15 ± 2.517e−14
pull
Entries 46
Mean 31.34
Std Dev 8.797
pull1D
Entries 46
Mean −0.128
Std Dev 0.9282


asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.163e+05 / 45
p0 9.781e−12 ± 1.78e−14
0.3
0.25
0.2
0.15
0.1
0.05
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_sam_3726_avg_mean vs run
χ² / ndf 40.32 / 45
p0 117.8 ± 122.6
4000
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 53.25
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.0178
Std Dev 0.9361
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_3726_avg_rms vs run
χ² / ndf 2.362e+04 / 45
p0 81.99 ± 0.08669
130
120
110
100
90
80
70
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 0
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6135. 2
6135. 3
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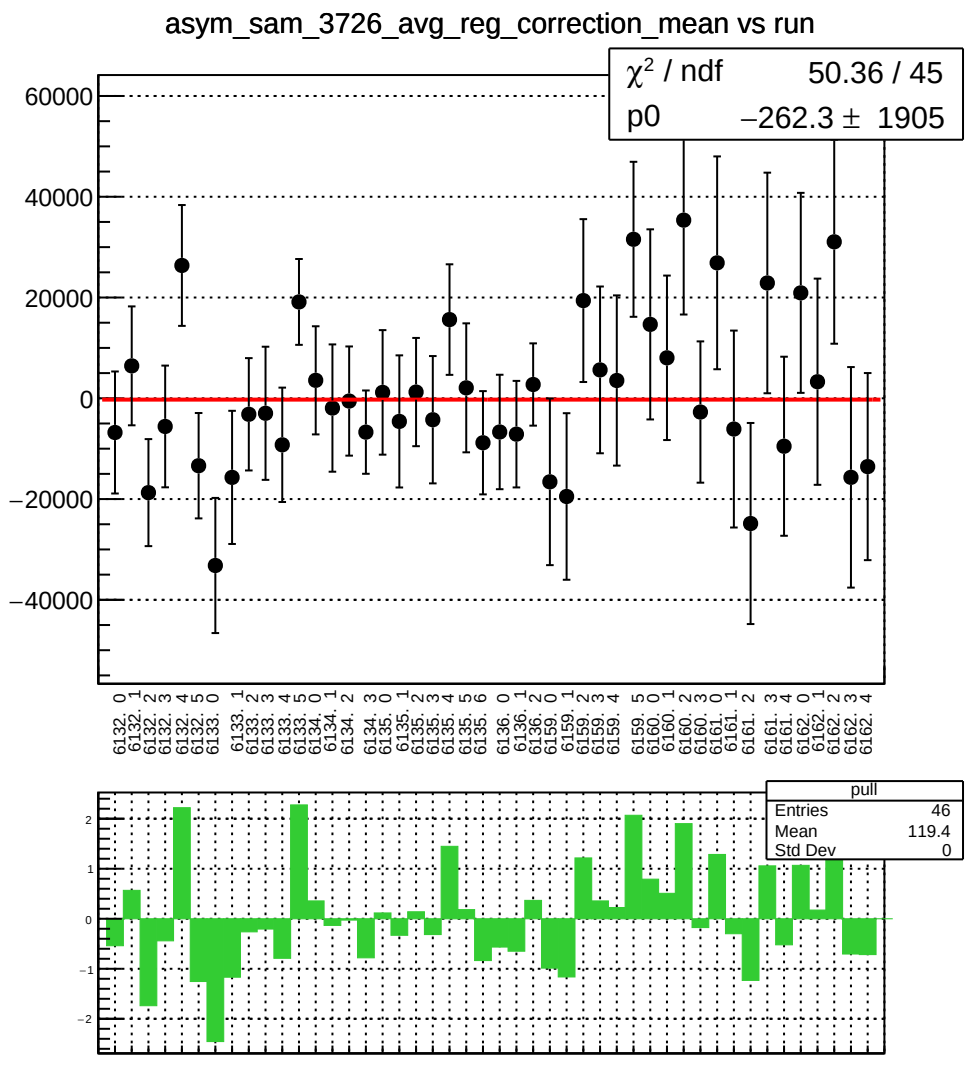
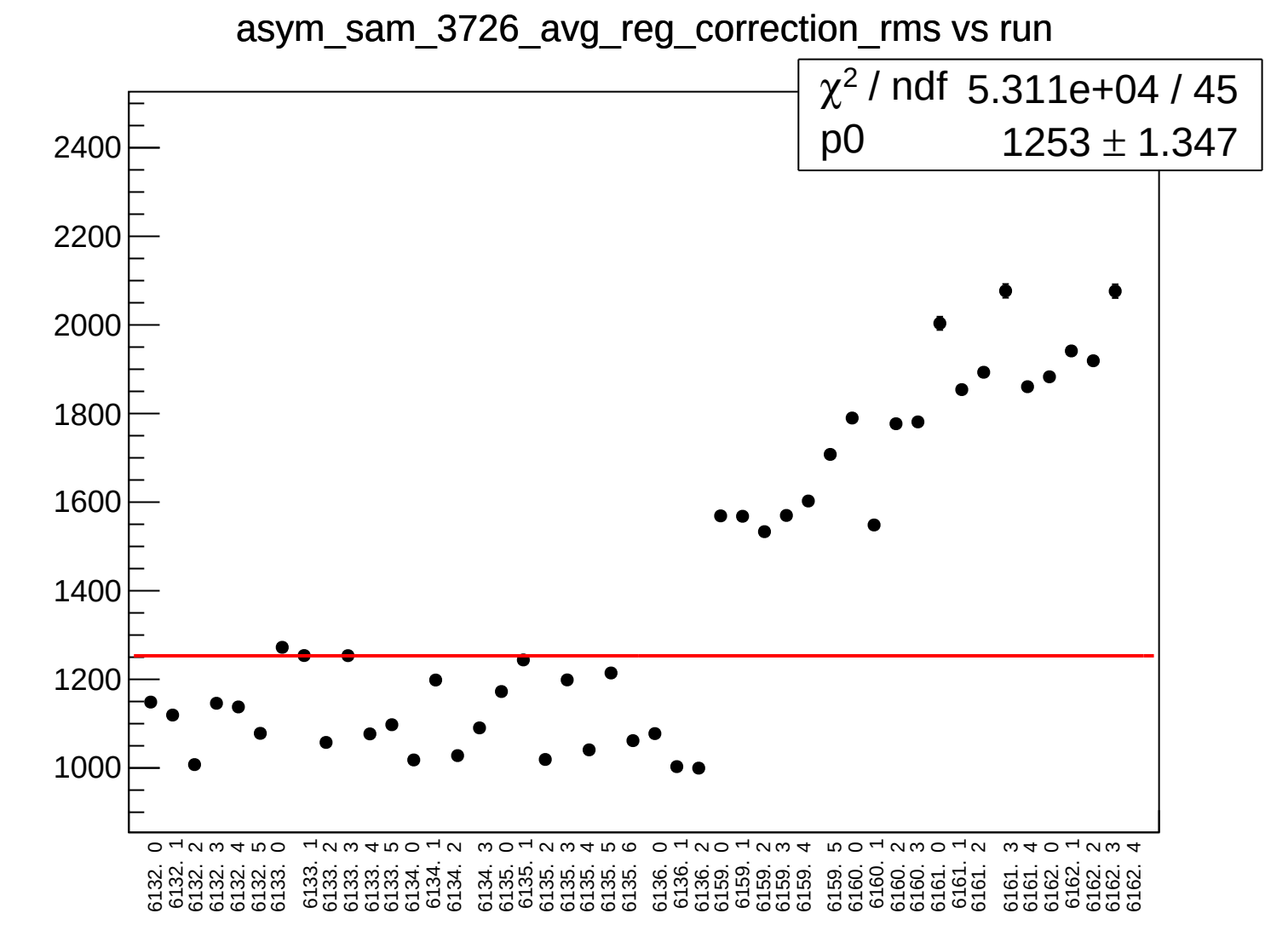
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 50.36 / 45
p0 −262.3 ± 1905
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 119.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.03455
Std Dev 1.046
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 5.311e+04 / 45
p0 1253 ± 1.347
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
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6135. 6
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6159. 1
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6160. 1
6160. 2
6160. 3
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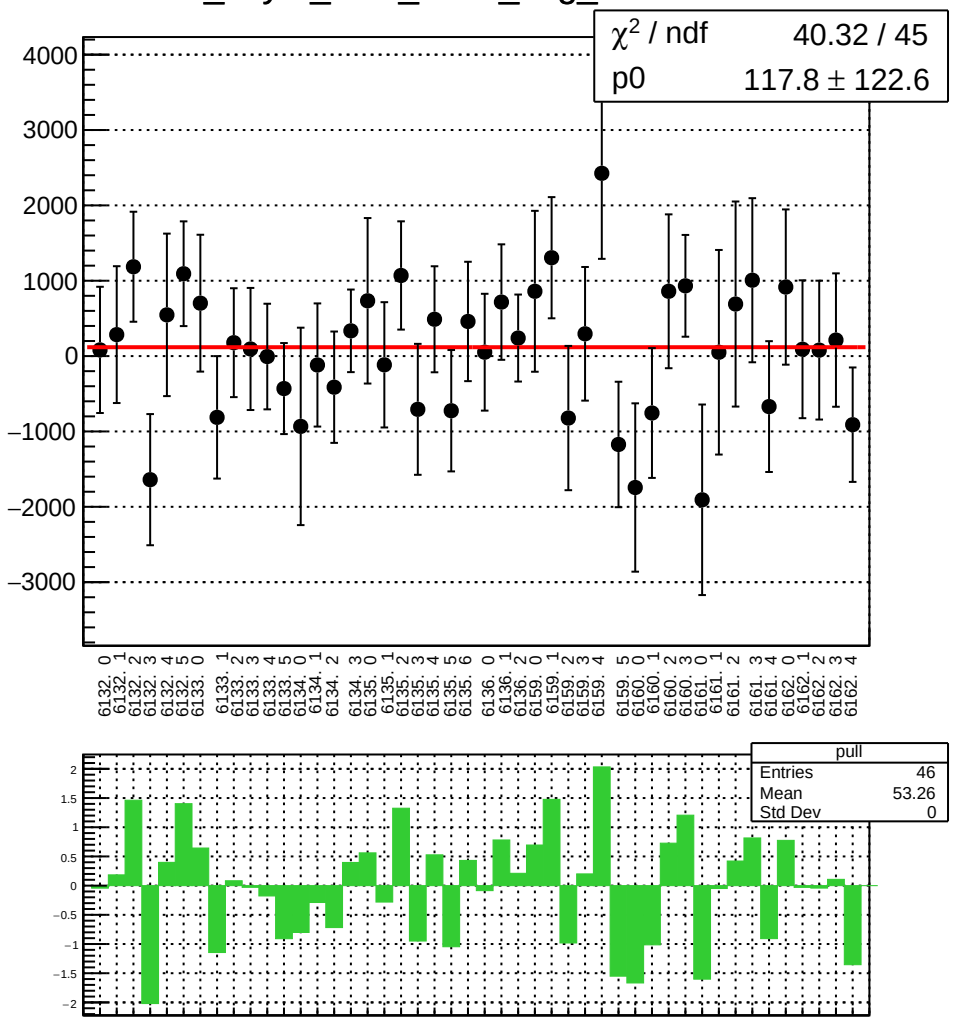
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_sam_3726_avg_mean vs run
χ² / ndf 40.32 / 45
p0 117.8 ± 122.6
4000
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6134. 2
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6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
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6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
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pull
Entries 46
Mean 53.26
Std Dev 0
2
1.5
1
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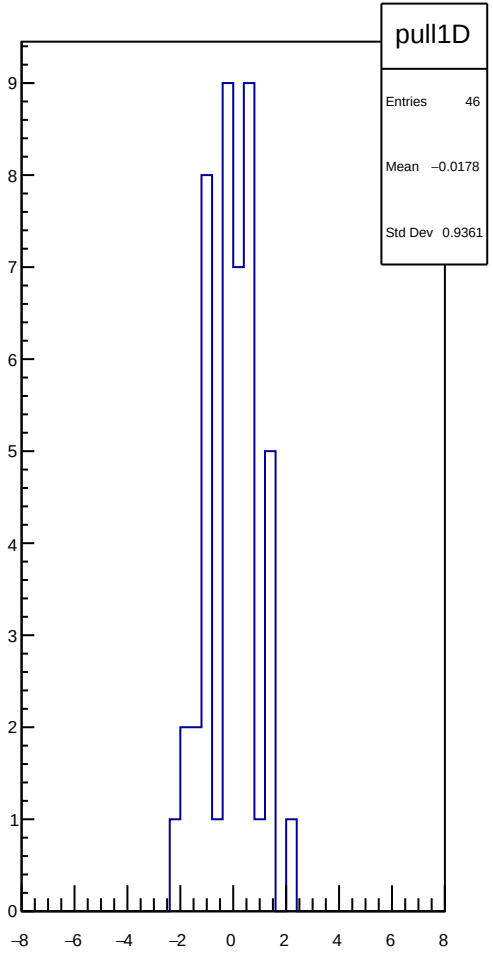
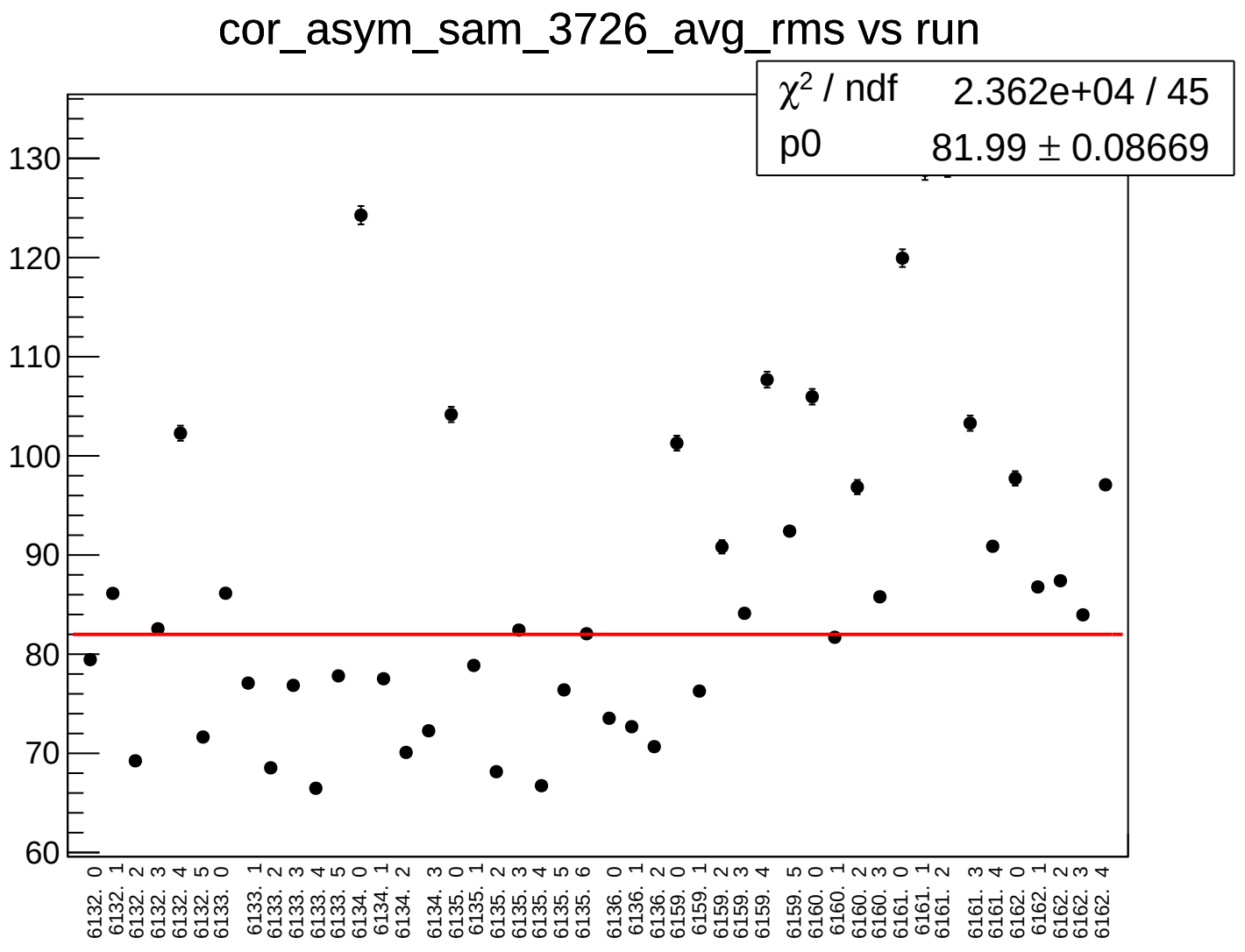
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean −0.0178
Std Dev 0.9361
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_3726_avg_rms vs run
χ² / ndf 2.362e+04 / 45
p0 81.99 ± 0.08669
130
120
110
100
90
80
70
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
6159. 0
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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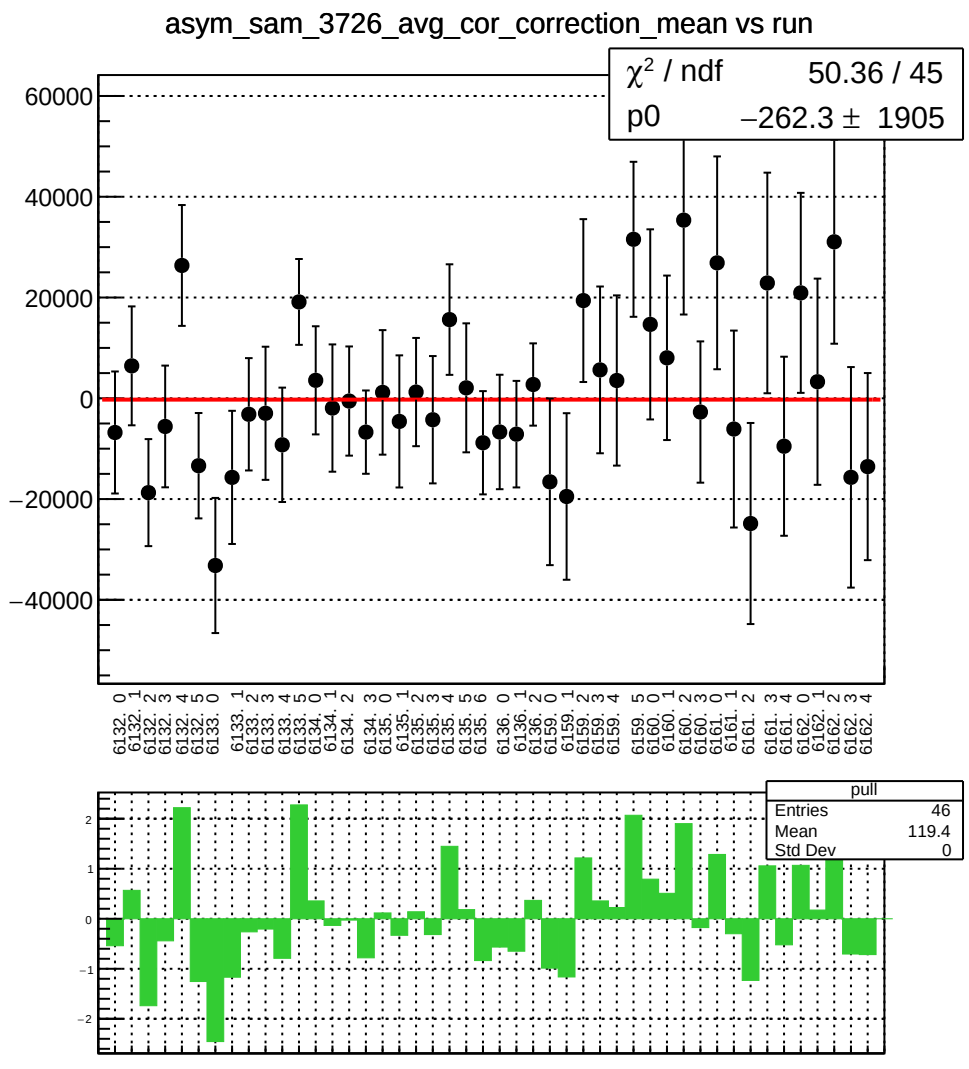
6162. 4


asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 50.36 / 45
p0 −262.3 ± 1905
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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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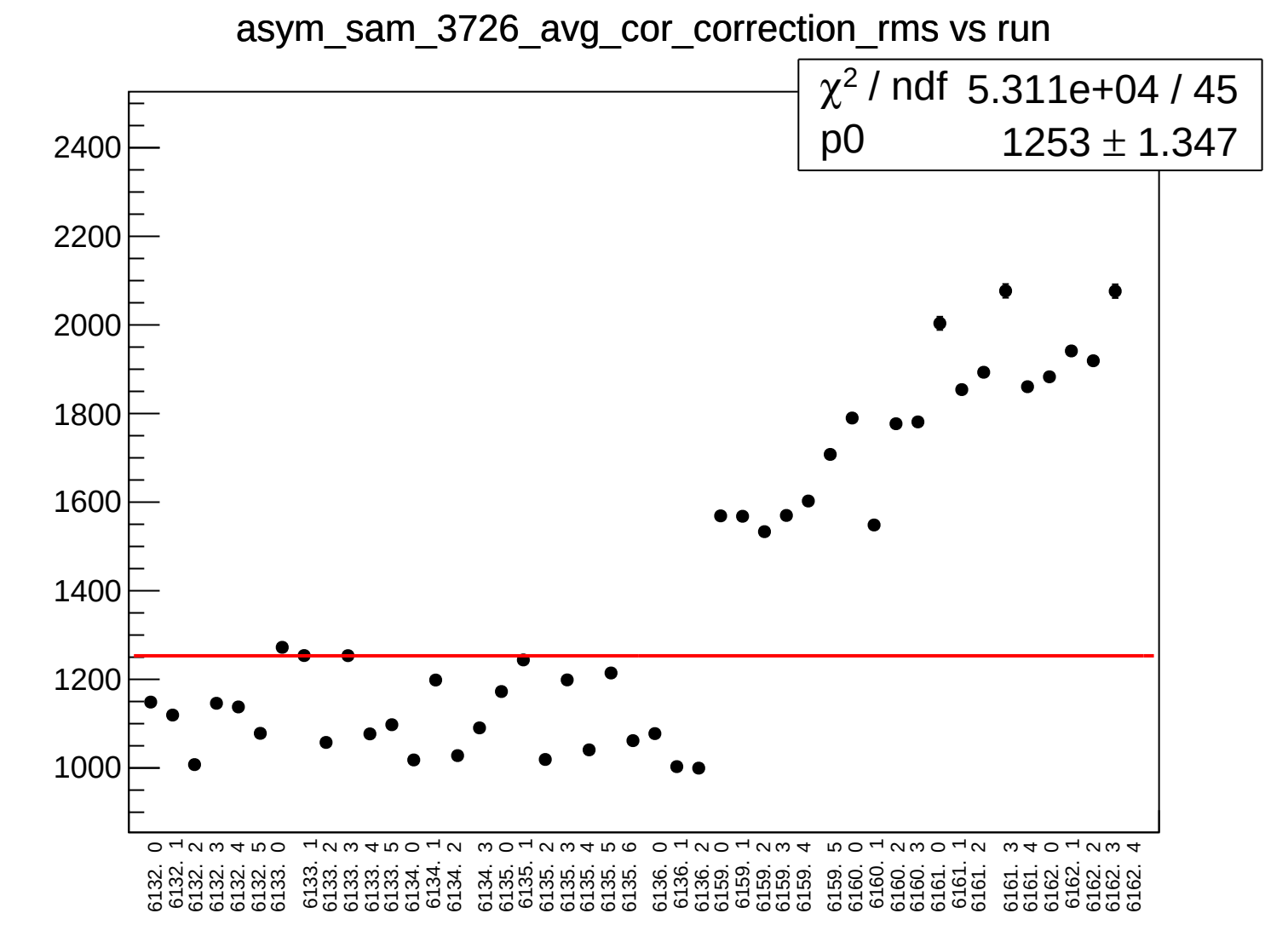
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 119.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.03455
Std Dev 1.046
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 5.311e+04 / 45
p0 1253 ± 1.347
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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6135. 2
6135. 3
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6135. 6
6136. 0
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6136. 2
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6160. 0
6160. 1
6160. 2
6160. 3
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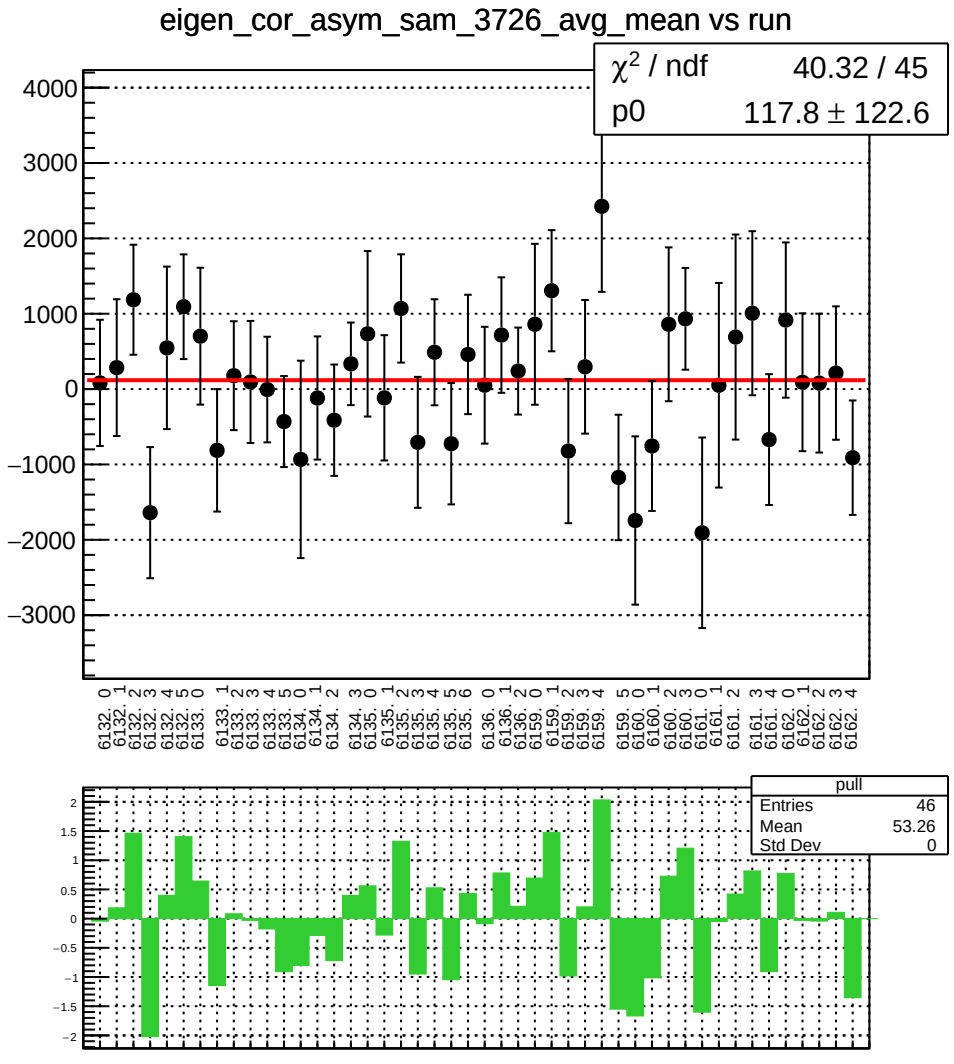
eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 40.32 / 45
p0 117.8 ± 122.6
4000
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
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6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 0
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6135. 2
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6136. 2
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 53.26
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.0178
Std Dev 0.9361
9
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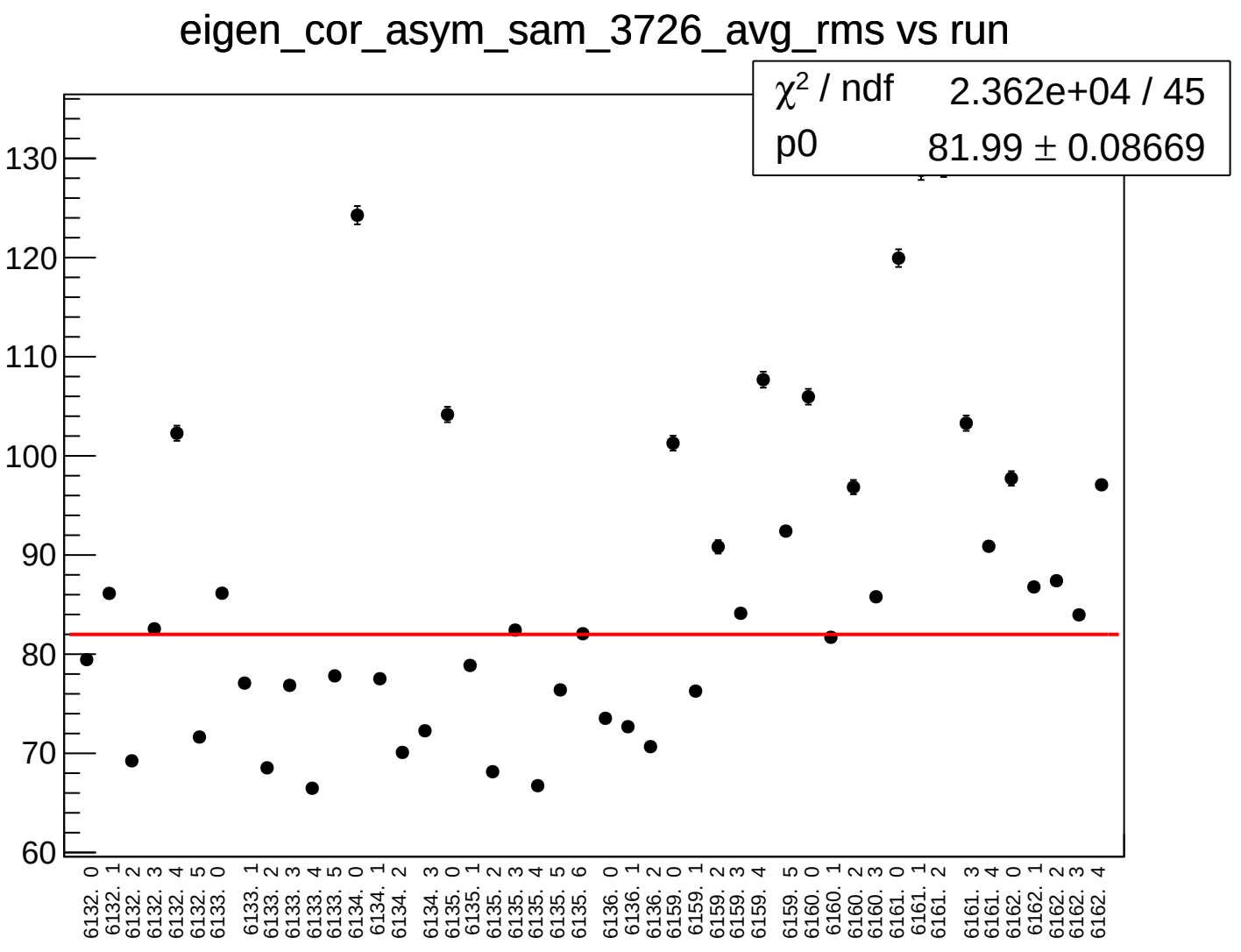
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 2.362e+04 / 45
p0 81.99 ± 0.08669
130
120
110
100
90
80
70
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
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6135. 0
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6135. 2
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6135. 6
6136. 0
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6136. 2
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6159. 2
6159. 3
6159. 4
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6160. 1
6160. 2
6160. 3
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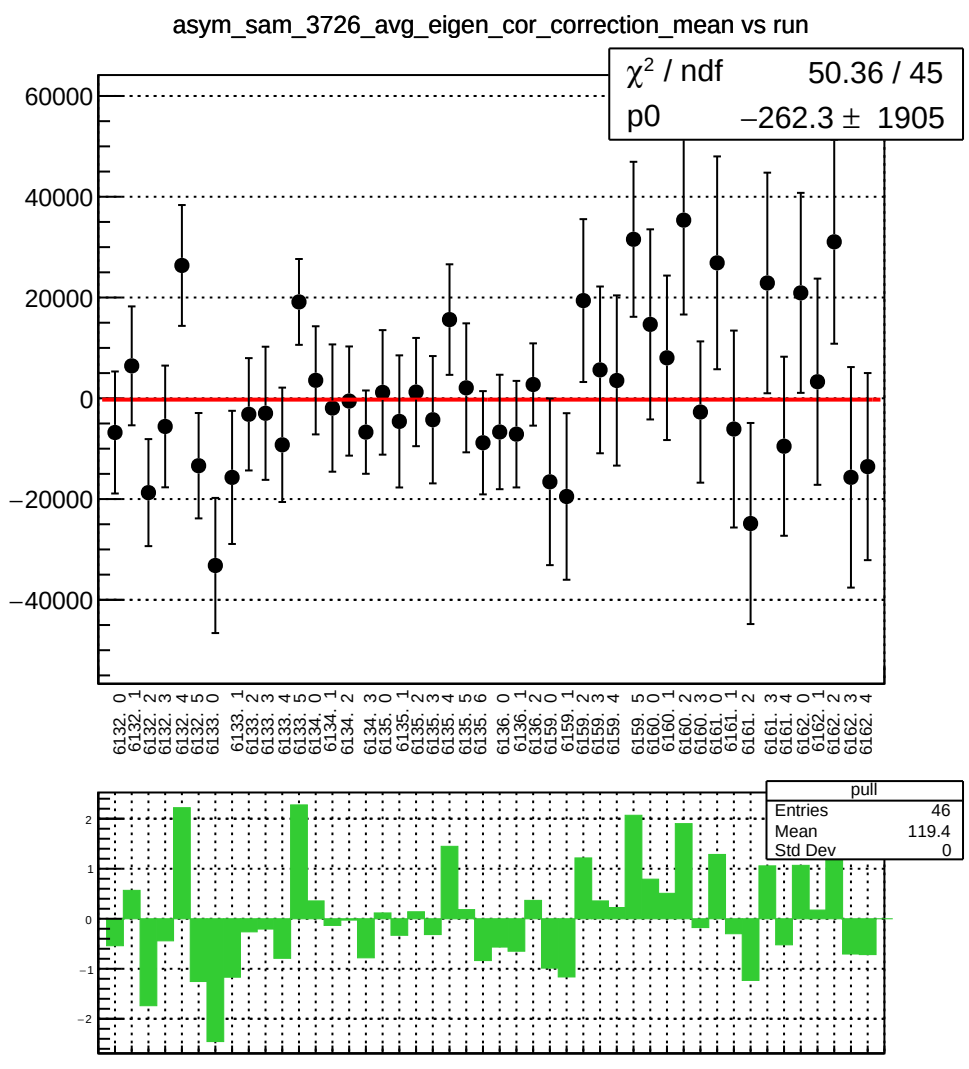
6162. 4


asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 50.36 / 45
p0 −262.3 ± 1905
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 2
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6135. 6
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6136. 2
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6159. 2
6159. 3
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6159. 5
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6160. 2
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6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 119.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.03455
Std Dev 1.046
9
8
7
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5
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2
1
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−8
−6
−4
−2
0
2
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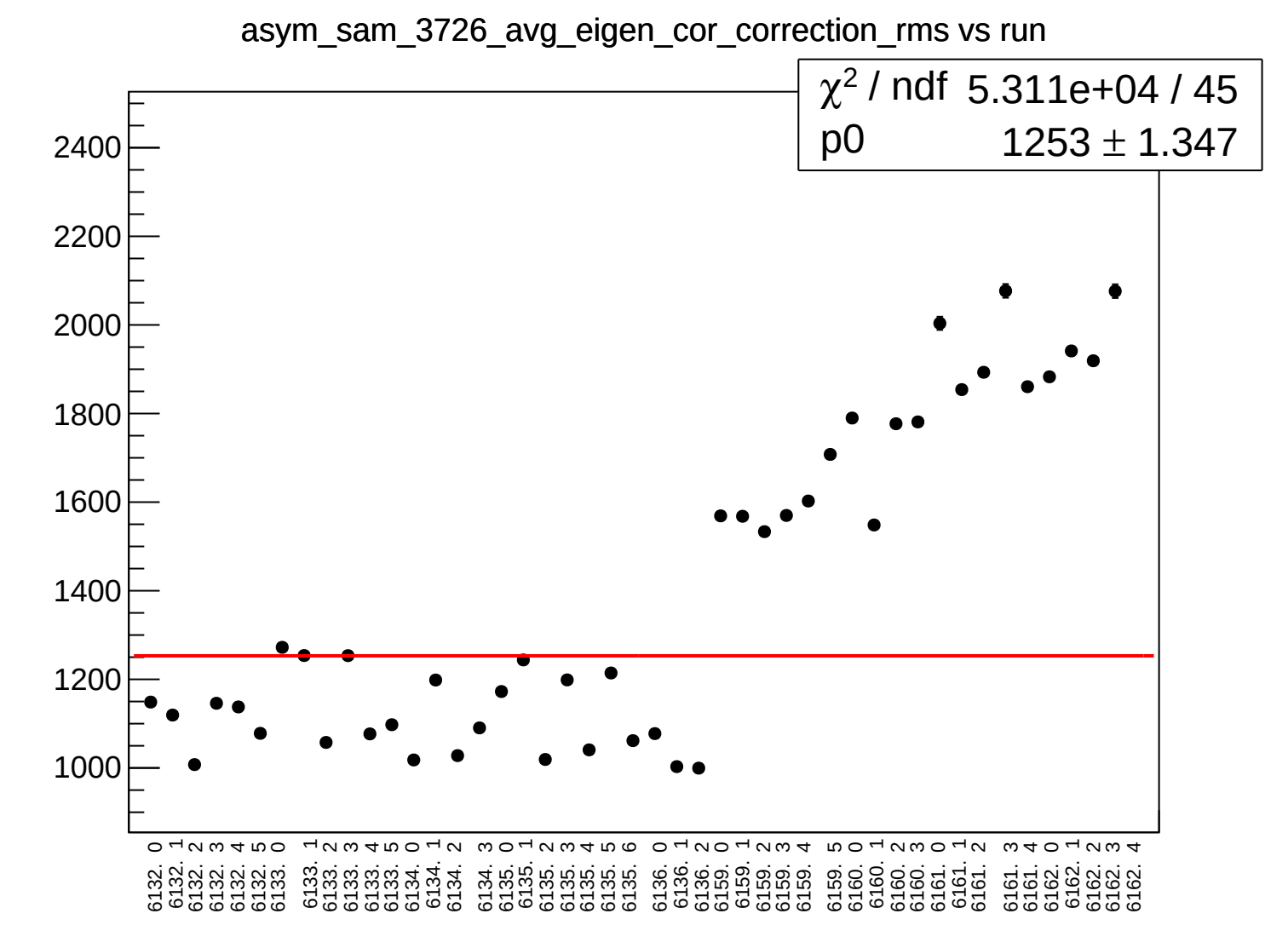
6
8


asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.311e+04 / 45
p0 1253 ± 1.347
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6135. 0
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6160. 2
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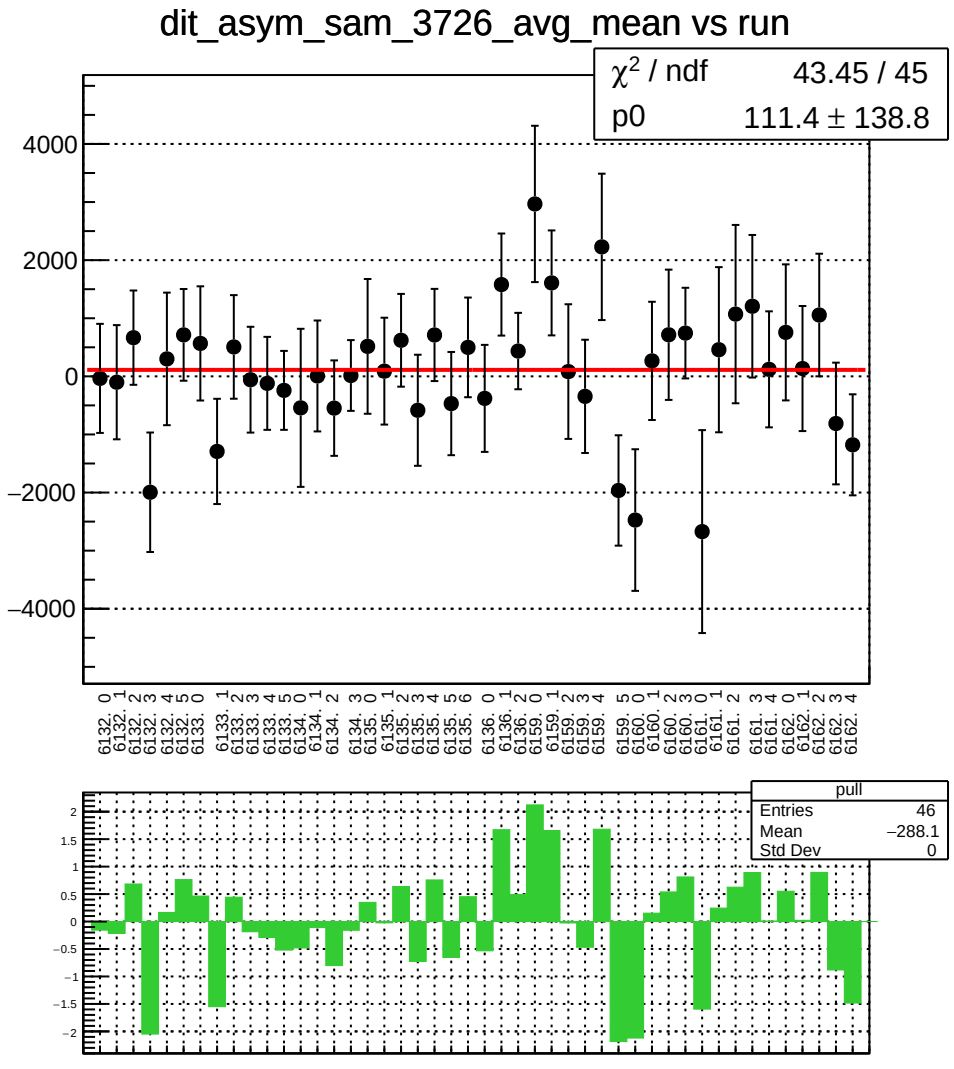
6162. 3
6162. 4


dit_asym_sam_3726_avg_mean vs run
χ² / ndf 43.45 / 45
p0 111.4 ± 138.8
4000
2000
0
−2000
−4000
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6132. 1
6132. 2
6132. 3
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6133. 0
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6159. 1
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6159. 4
6159. 5
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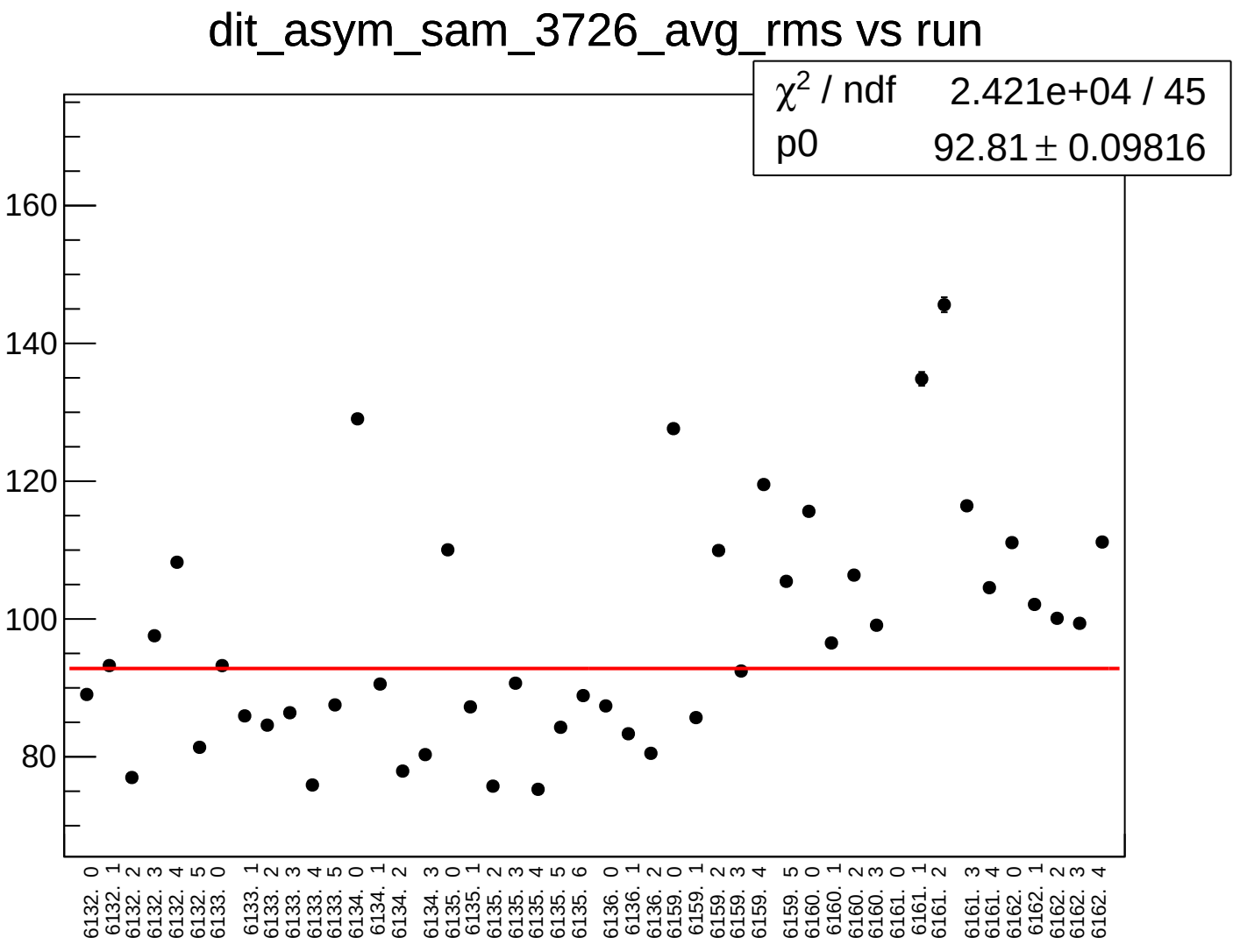
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −288.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.002826
Std Dev 0.9719
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_3726_avg_rms vs run
χ² / ndf 2.421e+04 / 45
p0 92.81 ± 0.09816
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
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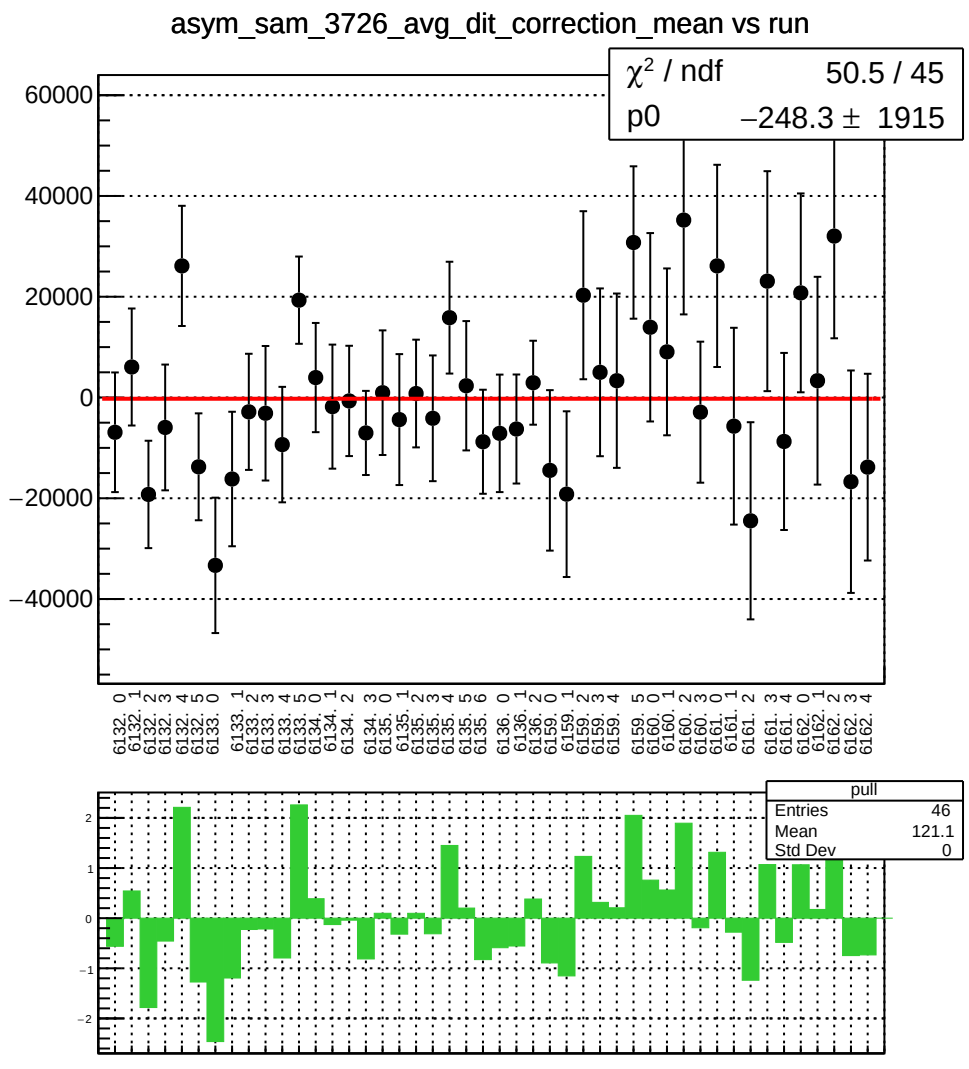
asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 50.5 / 45
p0 −248.3 ± 1915
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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6134. 2
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6135. 0
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6135. 2
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6135. 6
6136. 0
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
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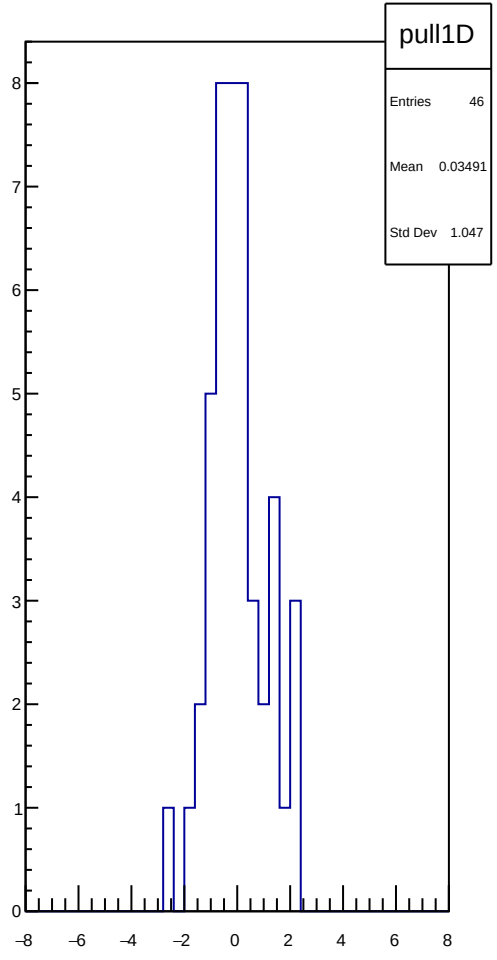
6162. 3
6162. 4
pull
Entries 46
Mean 121.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.03491
Std Dev 1.047
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7
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5
4
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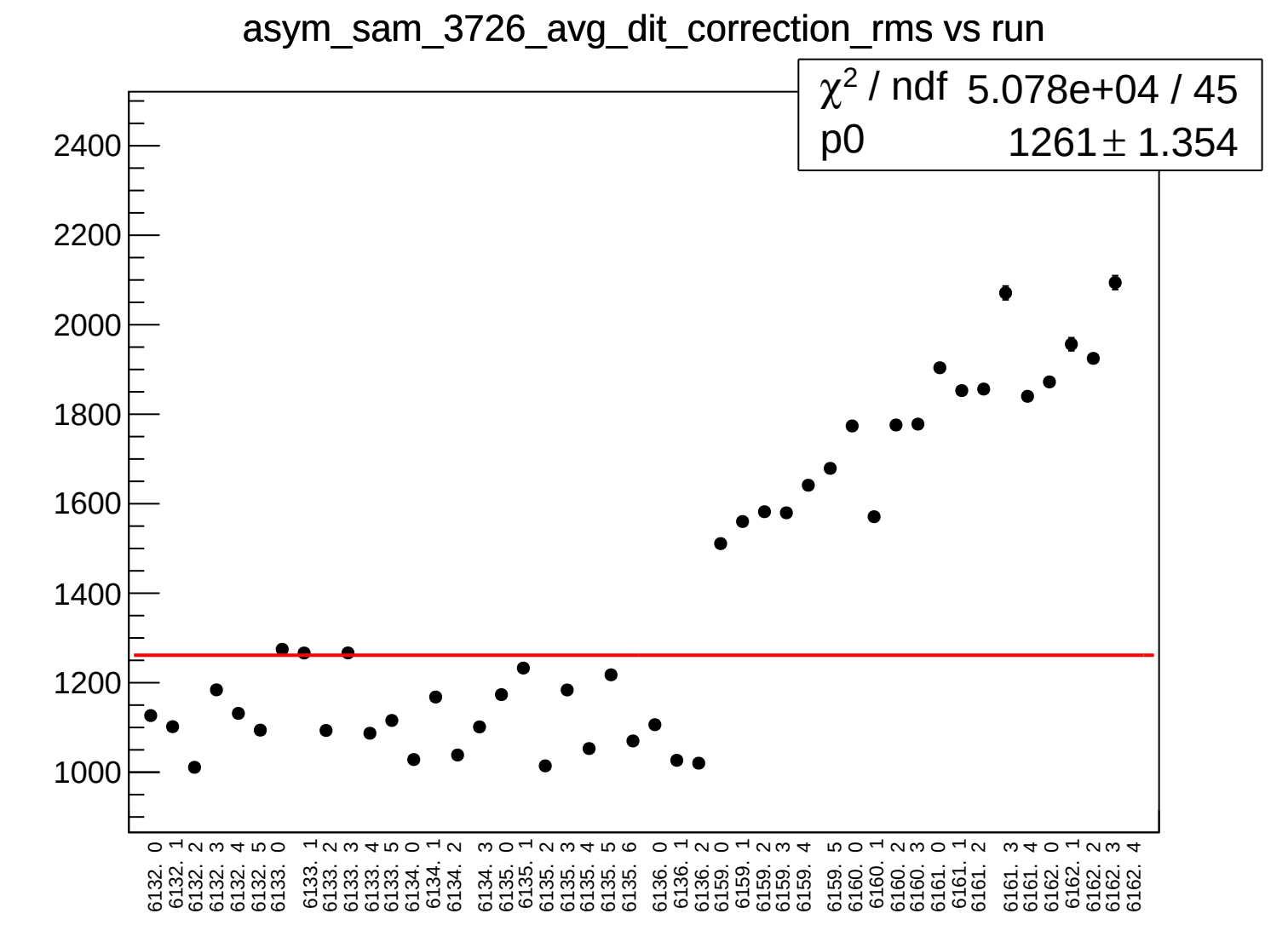
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 5.078e+04 / 45
p0 1261 ± 1.354
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
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6160. 1
6160. 2
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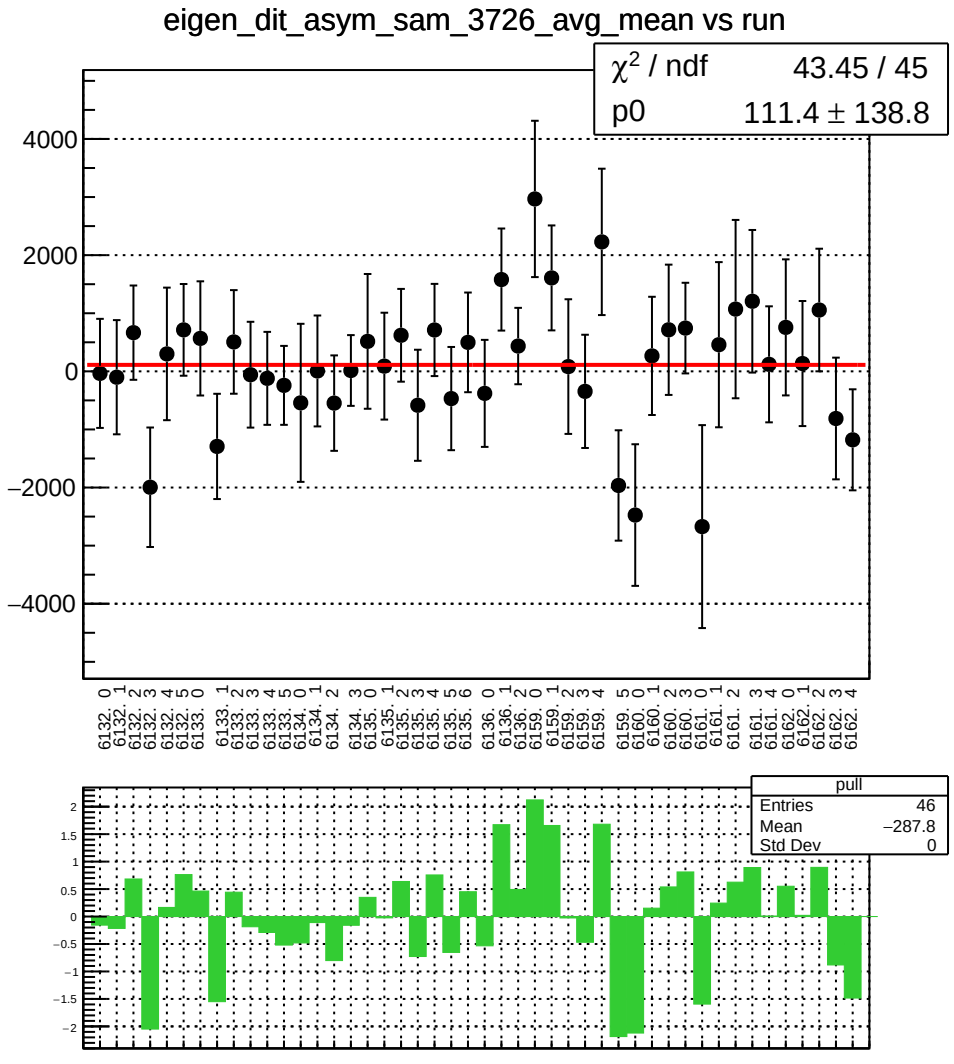
eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 43.45 / 45
p0 111.4 ± 138.8
4000
2000
0
−2000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
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6135. 0
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6135. 2
6135. 3
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6135. 6
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6136. 2
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6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −287.8
Std Dev 0
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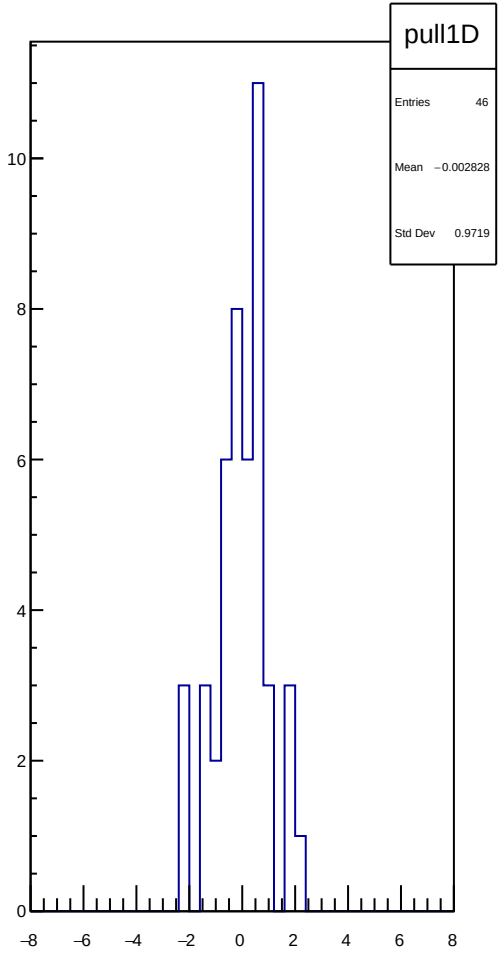
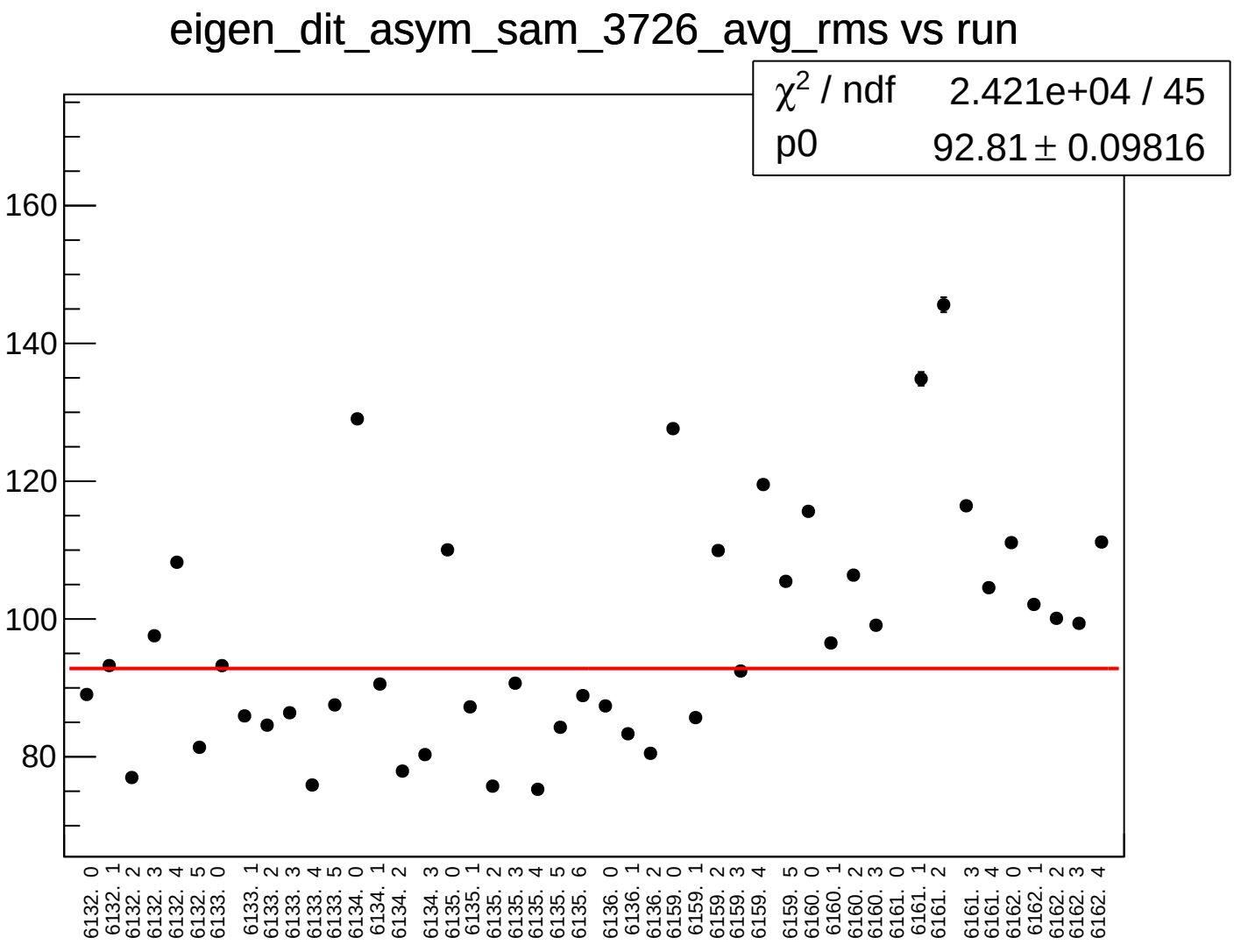
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean −0.002828
Std Dev 0.9719
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 2.421e+04 / 45
p0 92.81 ± 0.09816
160
140
120
100
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
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6134. 1
6134. 2
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6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
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6159. 1
6159. 2
6159. 3
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6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 3
6161. 4
6162. 0
6162. 1
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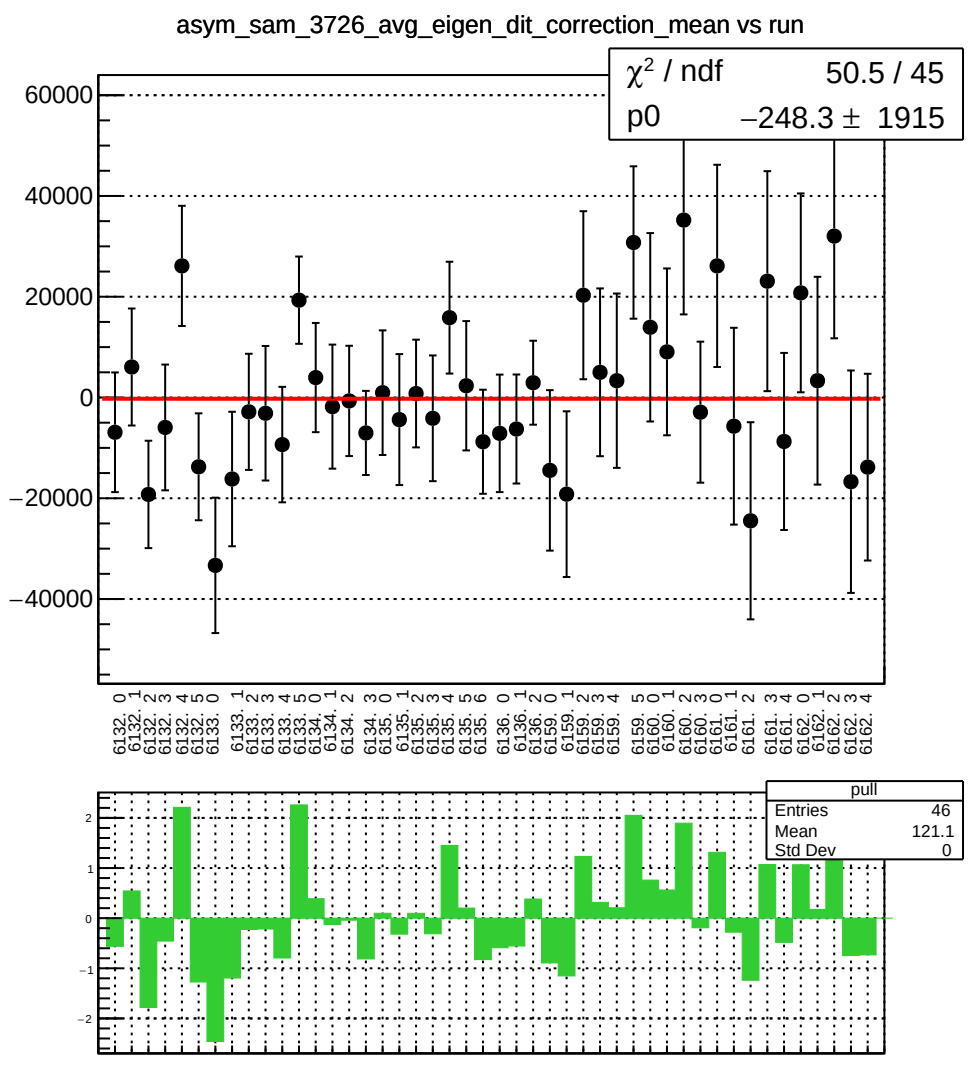
6162. 4


asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 50.5 / 45
p0 −248.3 ± 1915
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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6135. 6
6136. 0
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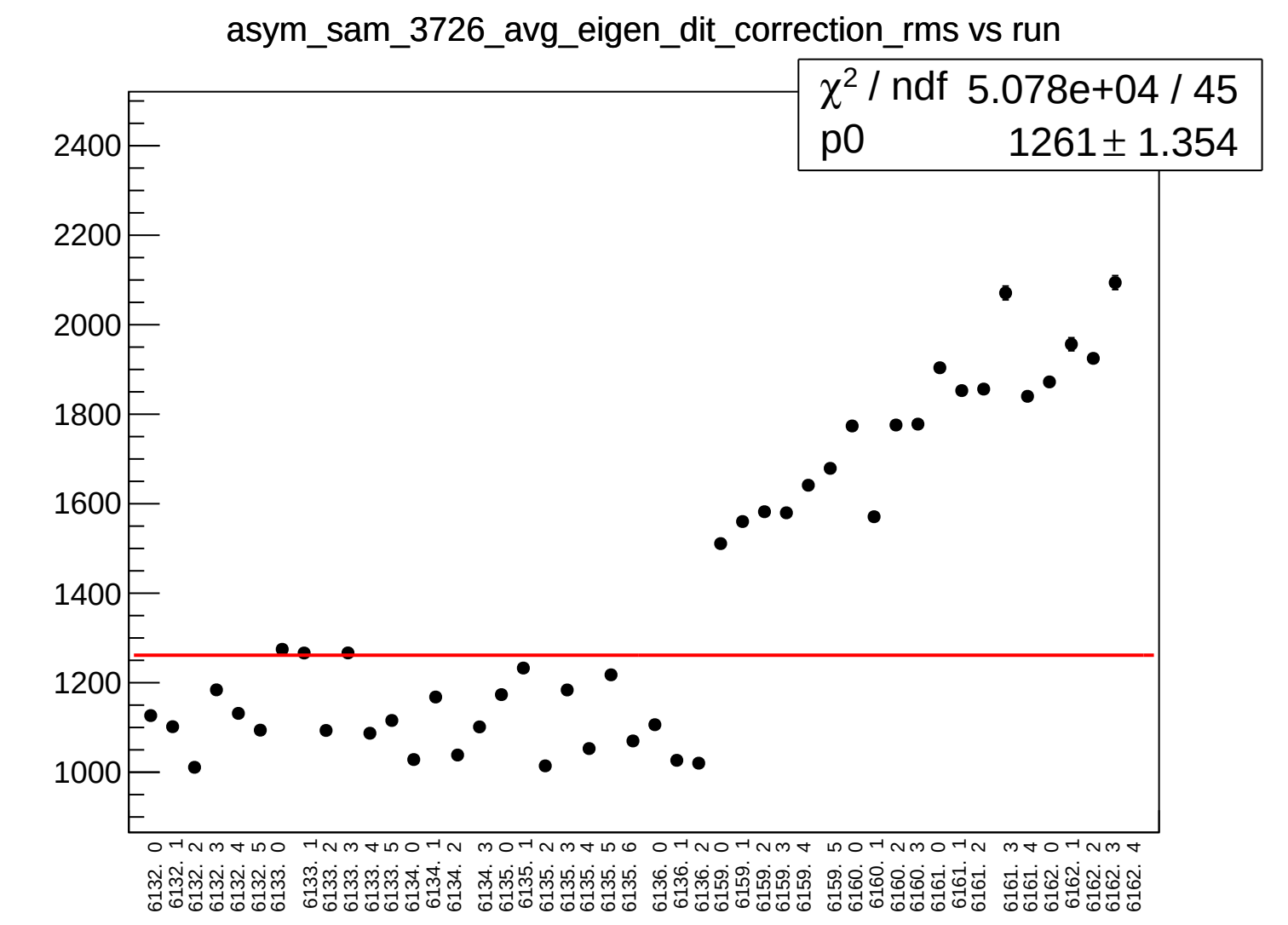
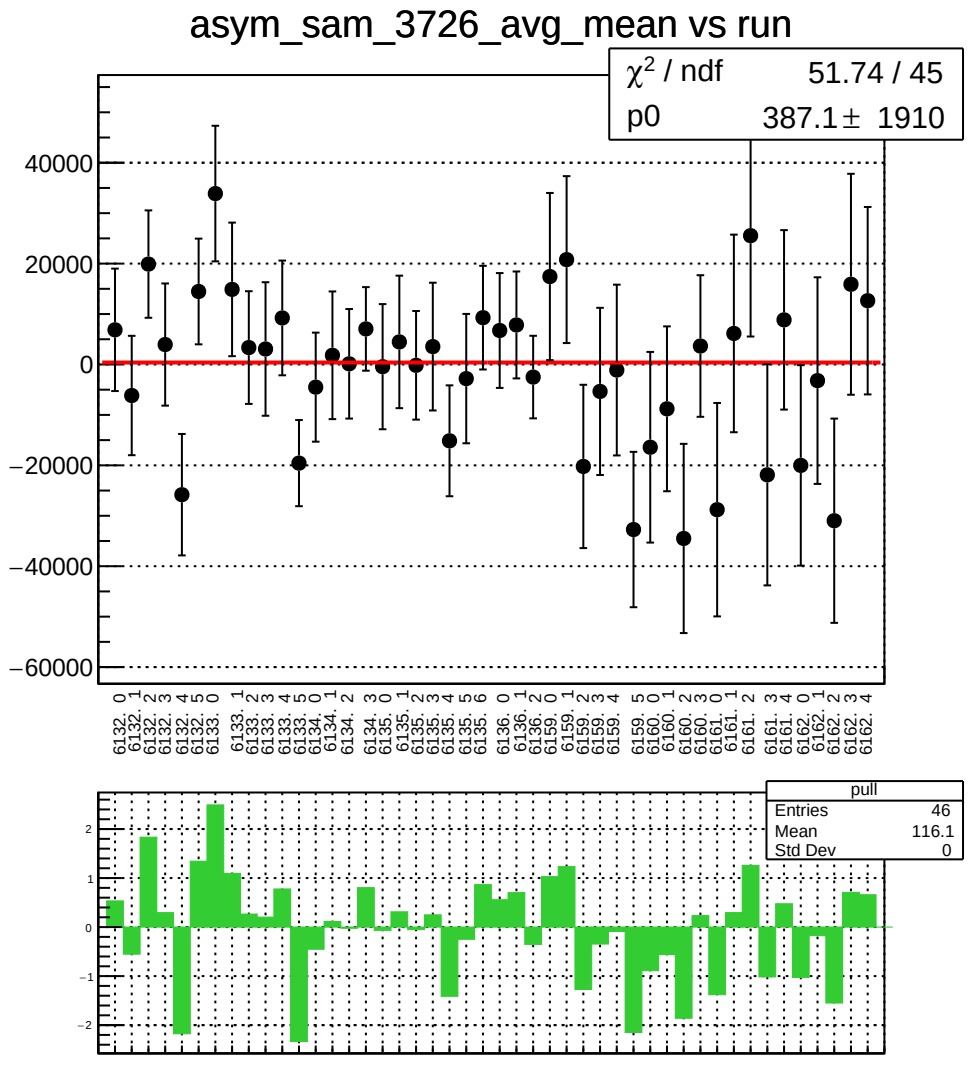
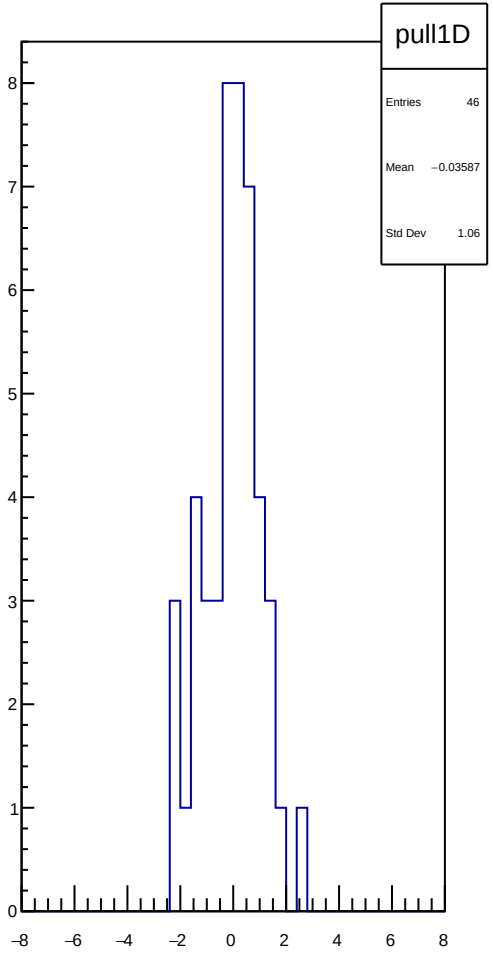
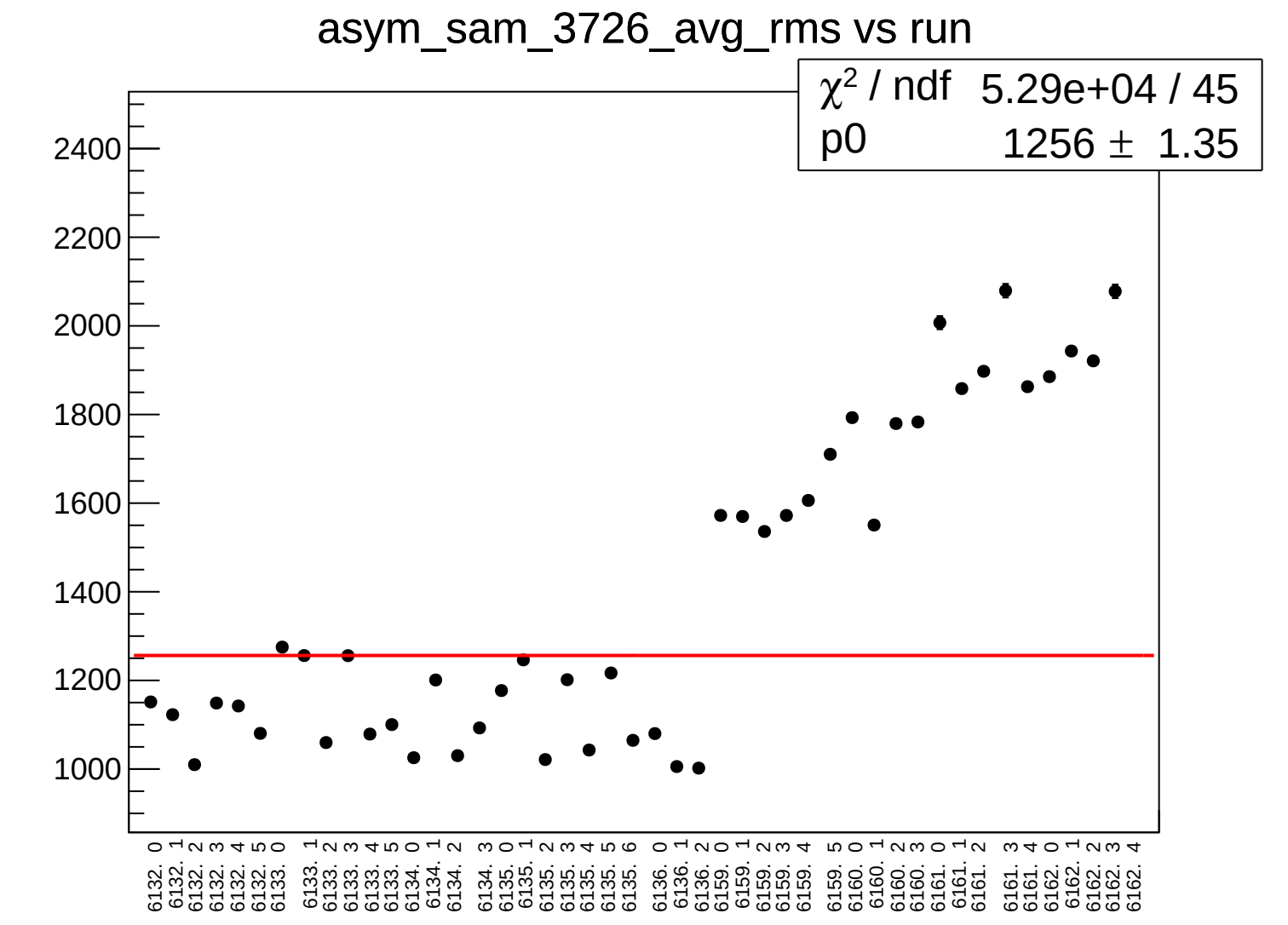
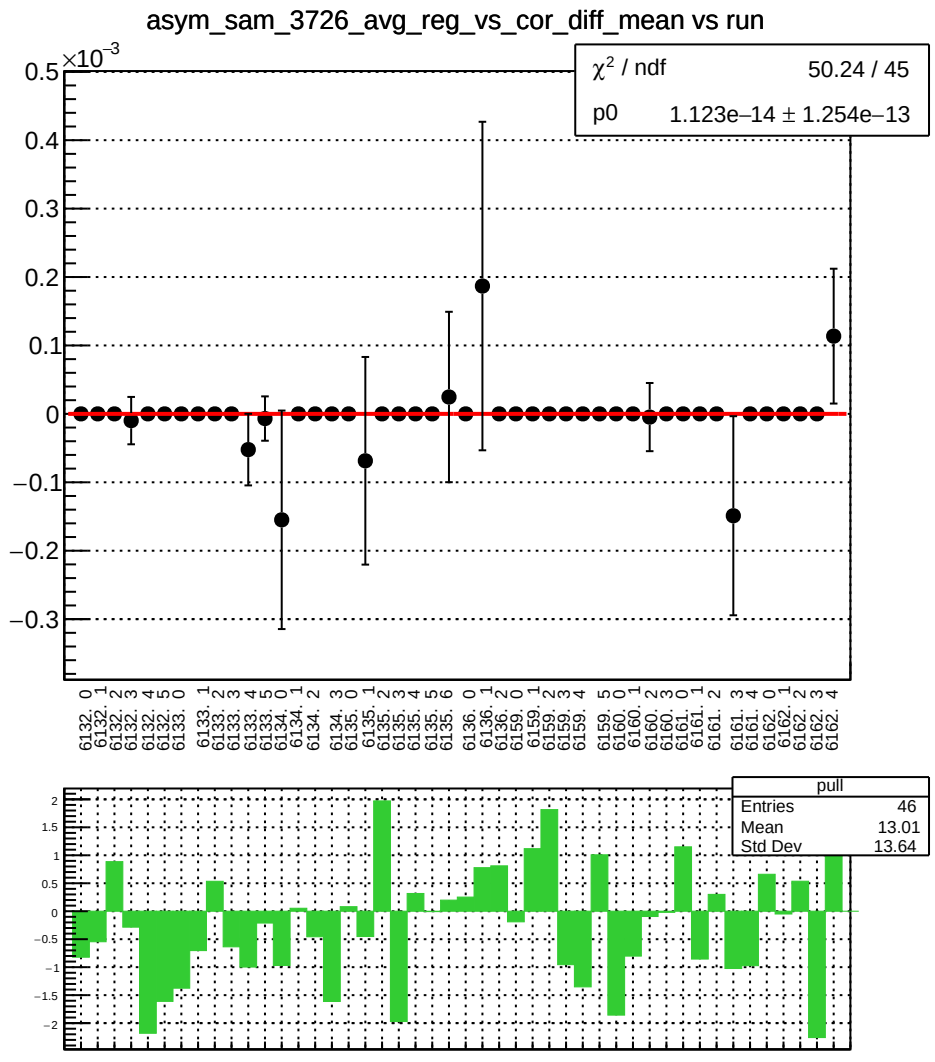
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 121.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.03491
Std Dev 1.047
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

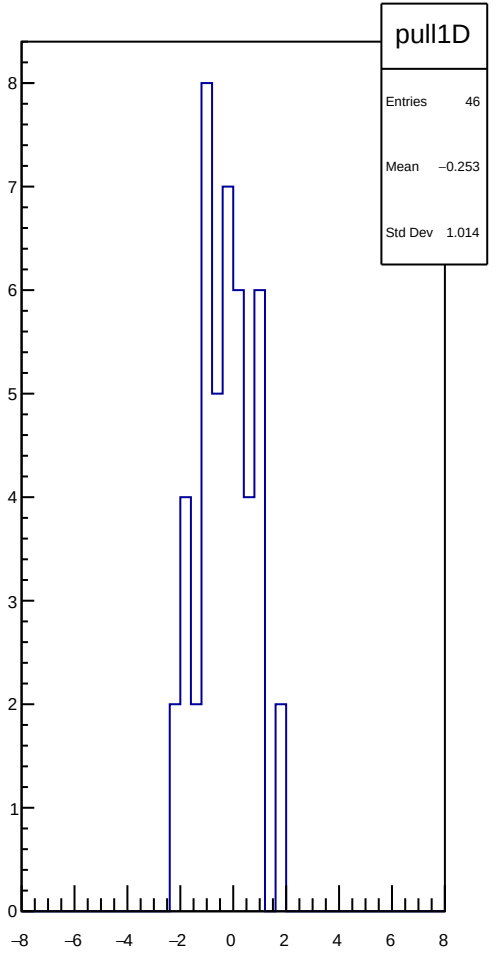

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.078e+04 / 45
p0 1261 ± 1.354
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

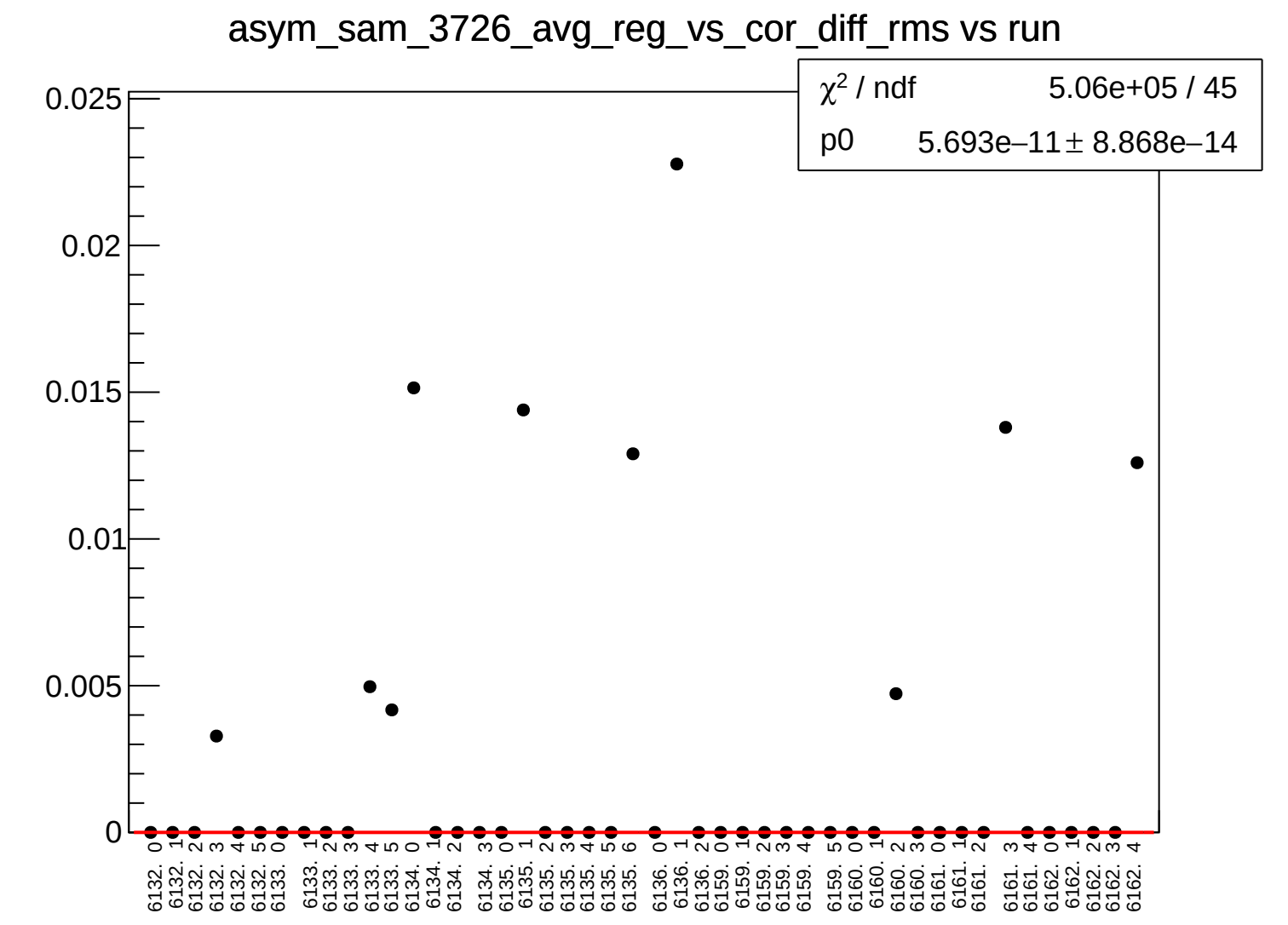

asym_sam_3726_avg_mean vs run
χ² / ndf 51.74 / 45
p0 387.1± 1910
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 116.1
Std Dev 0
2
1
0
−1
−2

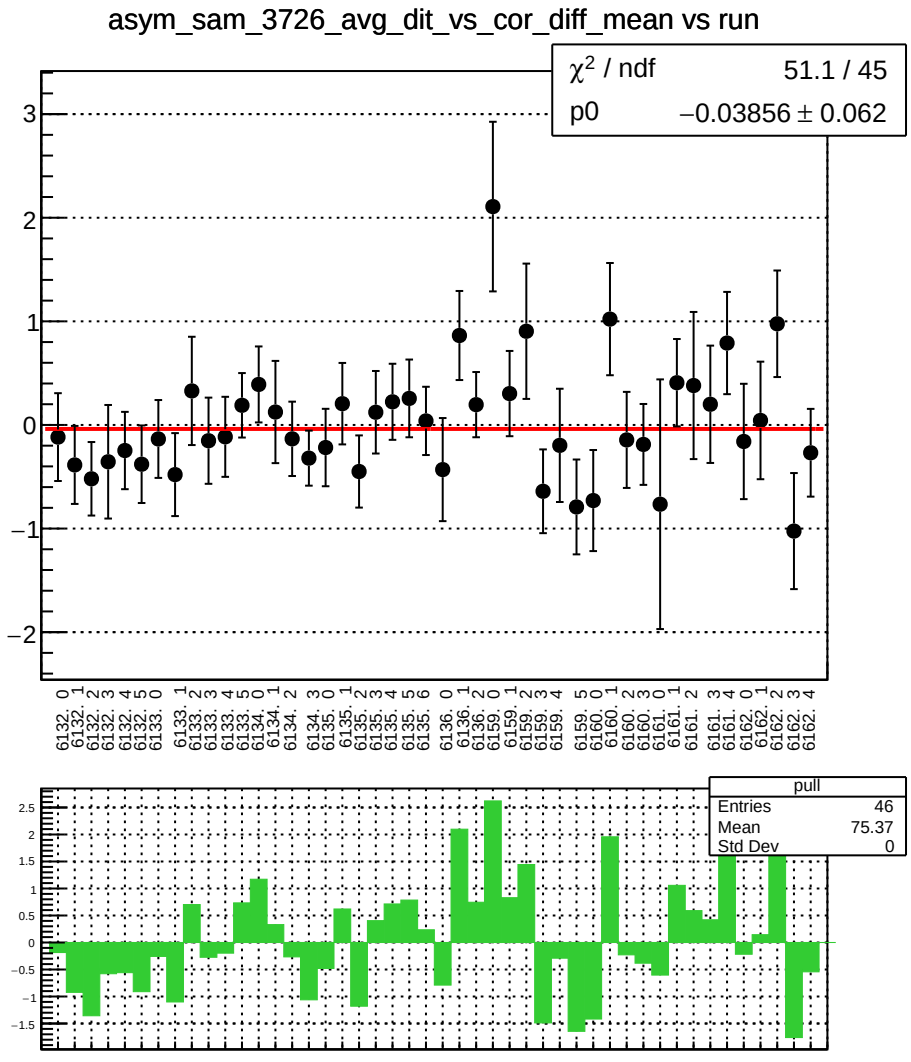

pull1D
Entries 46
Mean −0.03587
Std Dev 1.06
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

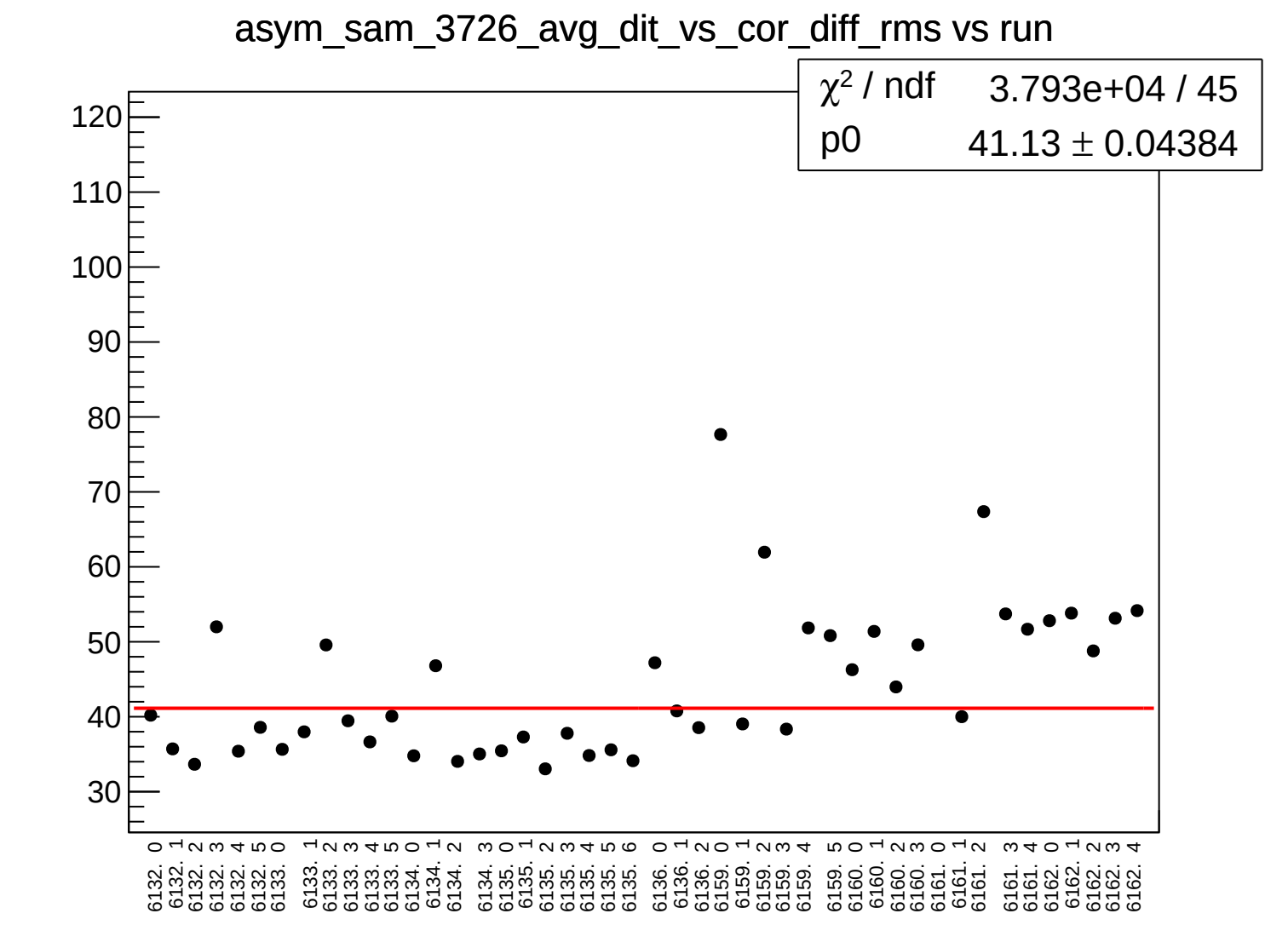

asym_sam_3726_avg_rms vs run
χ² / ndf 5.29e+04 / 45
p0 1256 ± 1.35
2400
2200
2000
1800
1600
1400
1200
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

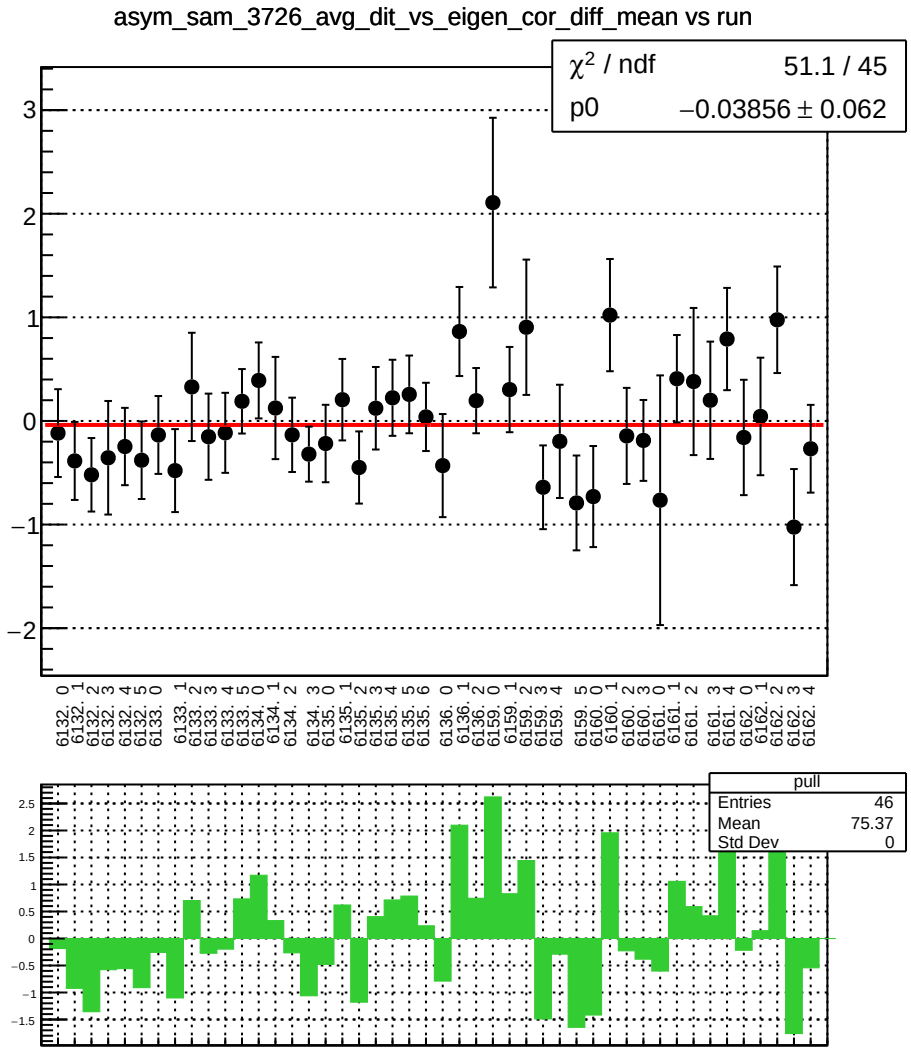

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 50.24 / 45
p0 1.123e−14 ± 1.254e−13
pull
Entries 46
Mean 13.01
Std Dev 13.64

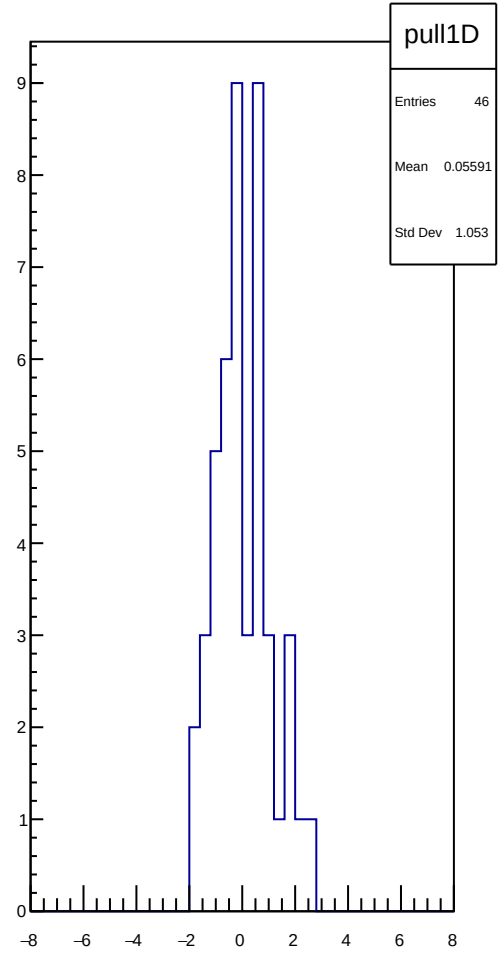

pull1D
Entries 46
Mean −0.253
Std Dev 1.014

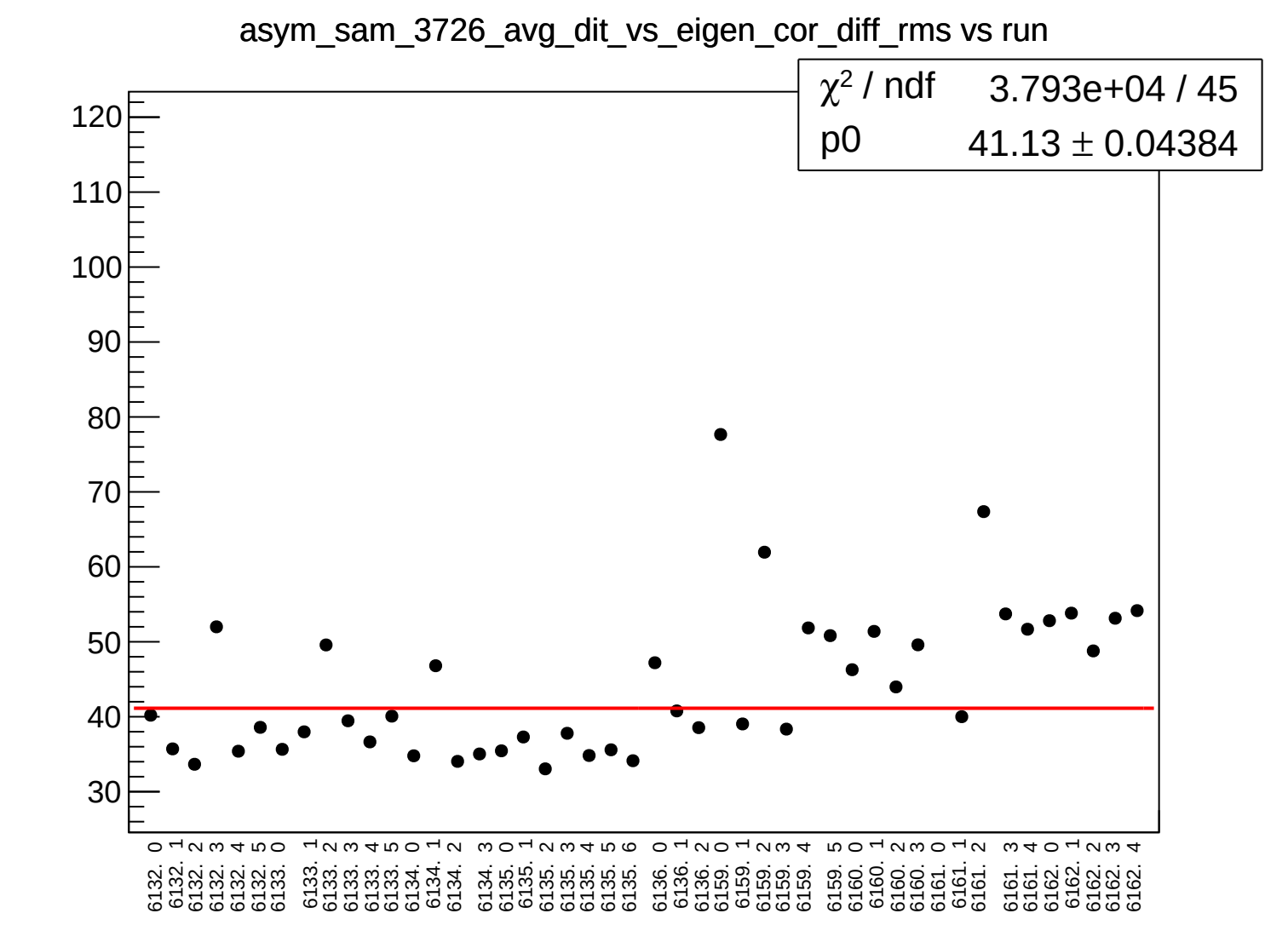

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.06e+05 / 45
p0 5.693e−11 ± 8.868e−14
0.025
0.02
0.015
0.01
0.005
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

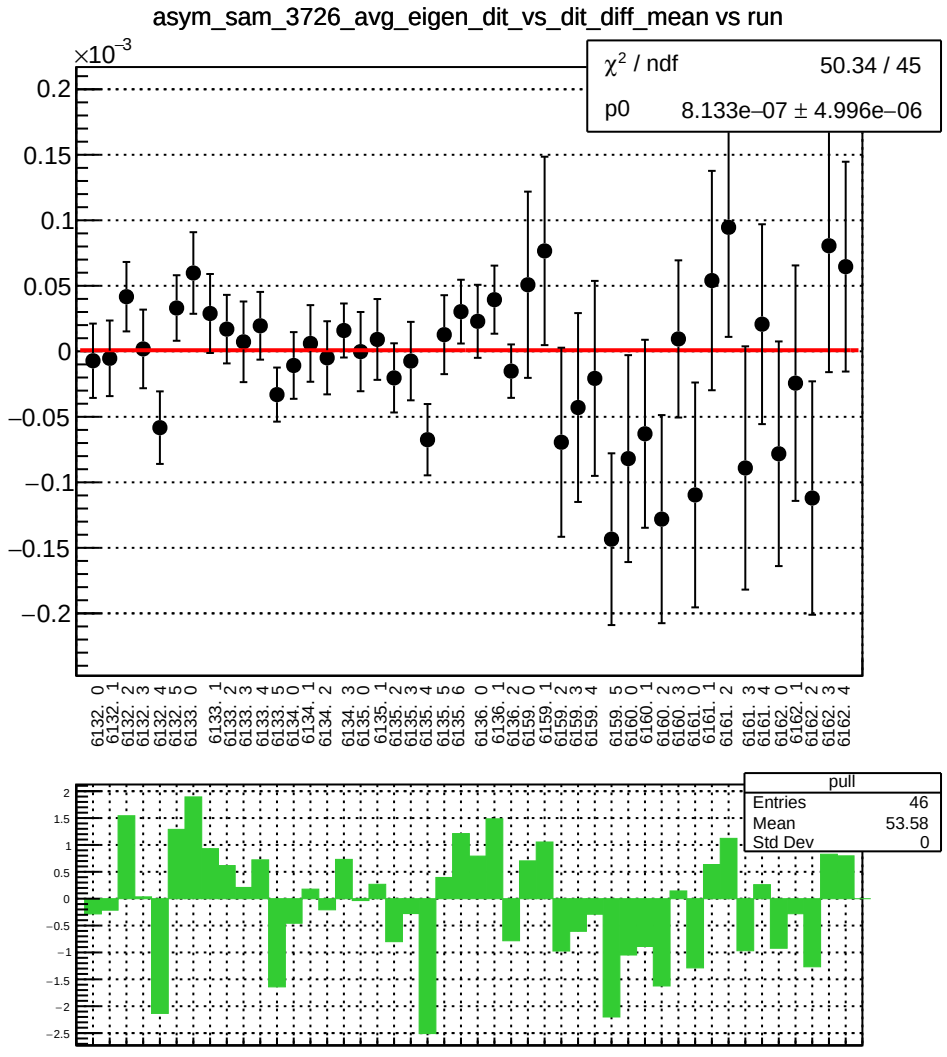

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 51.1 / 45
p0 −0.03856 ± 0.062
pull
Entries 46
Mean 75.37
Std Dev 0
pull1D
Entries 46
Mean 0.05591
Std Dev 1.053

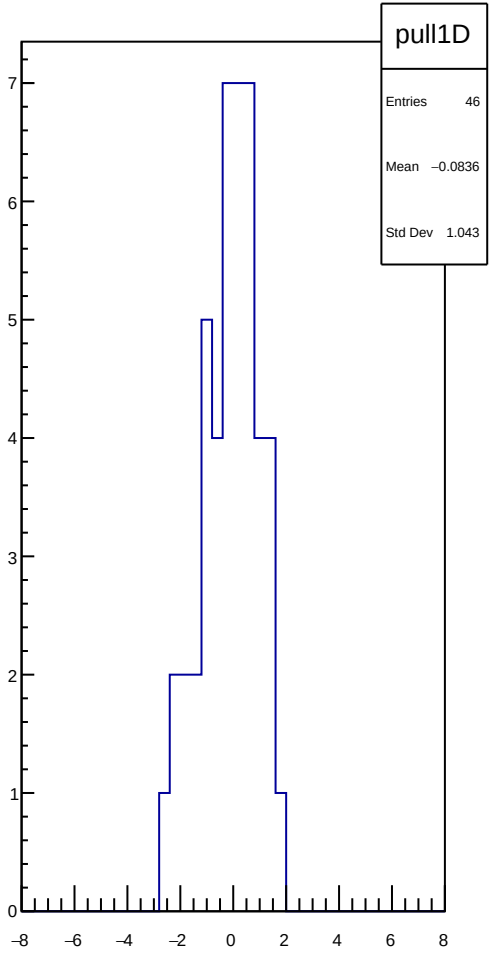

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.793e+04 / 45
p0 41.13 ± 0.04384
120
110
100
90
80
70
60
50
40
30
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

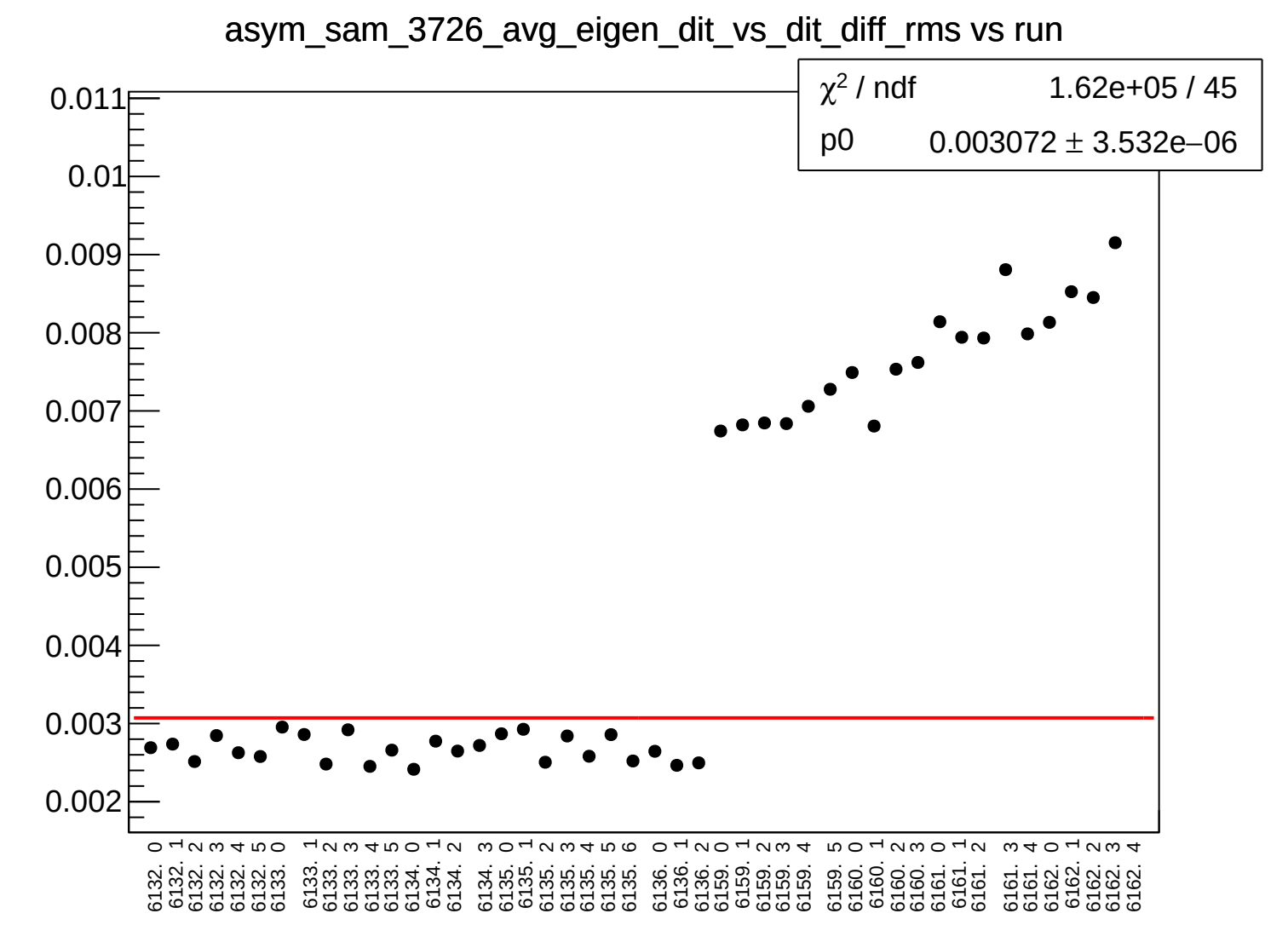

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.1 / 45
p0 −0.03856 ± 0.062
pull
Entries 46
Mean 75.37
Std Dev 0

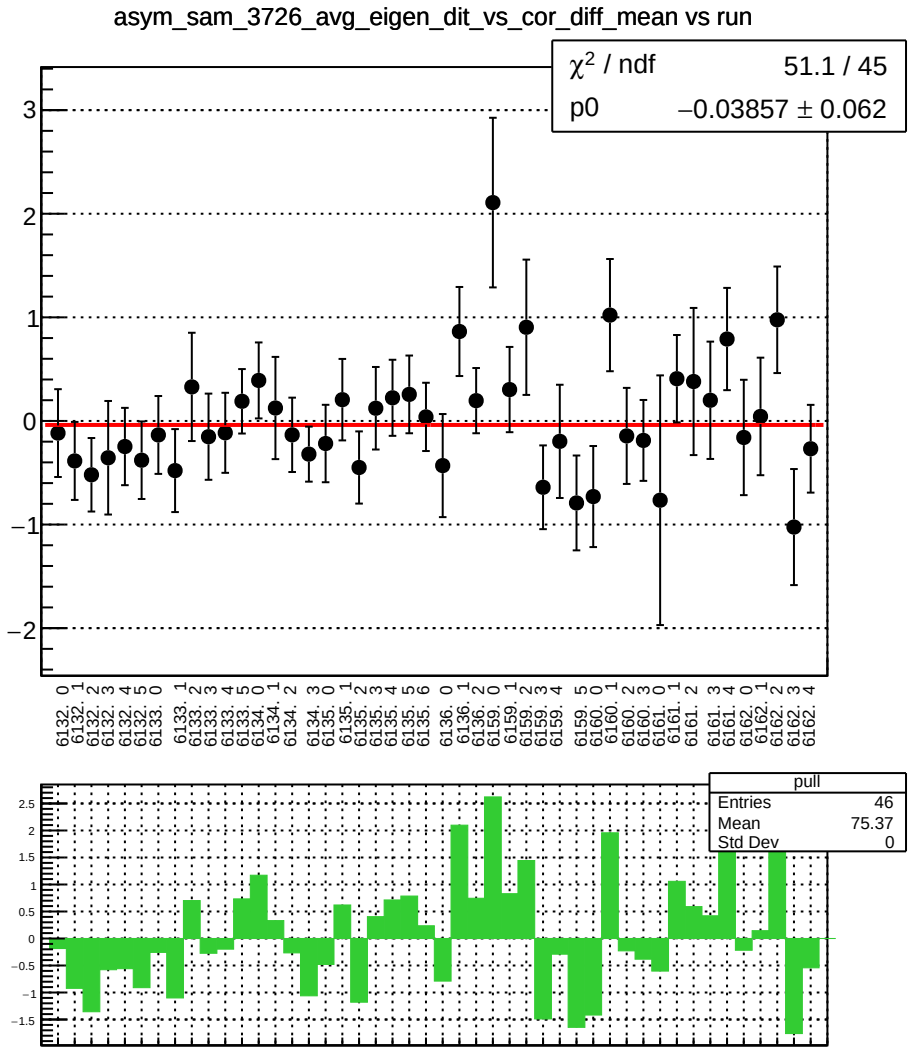

pull1D
Entries 46
Mean 0.05591
Std Dev 1.053

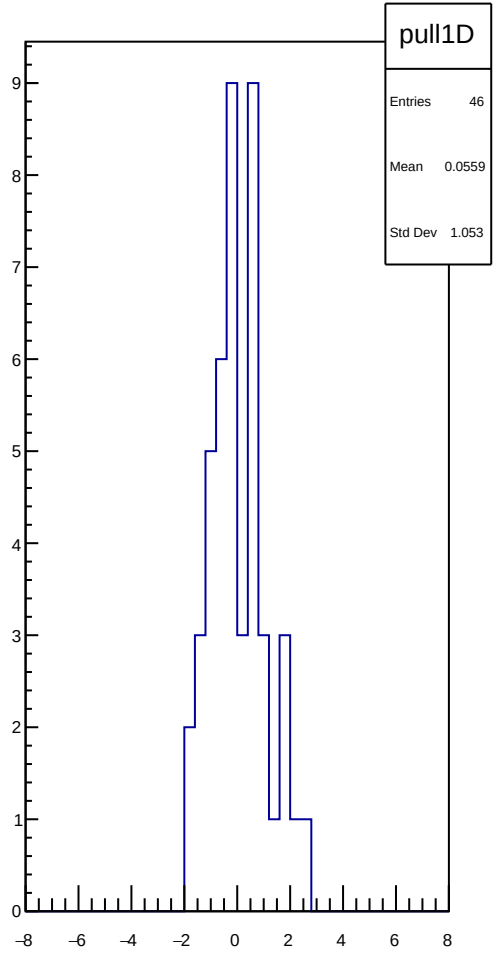

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.793e+04 / 45
p0 41.13 ± 0.04384
120
110
100
90
80
70
60
50
40
30
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

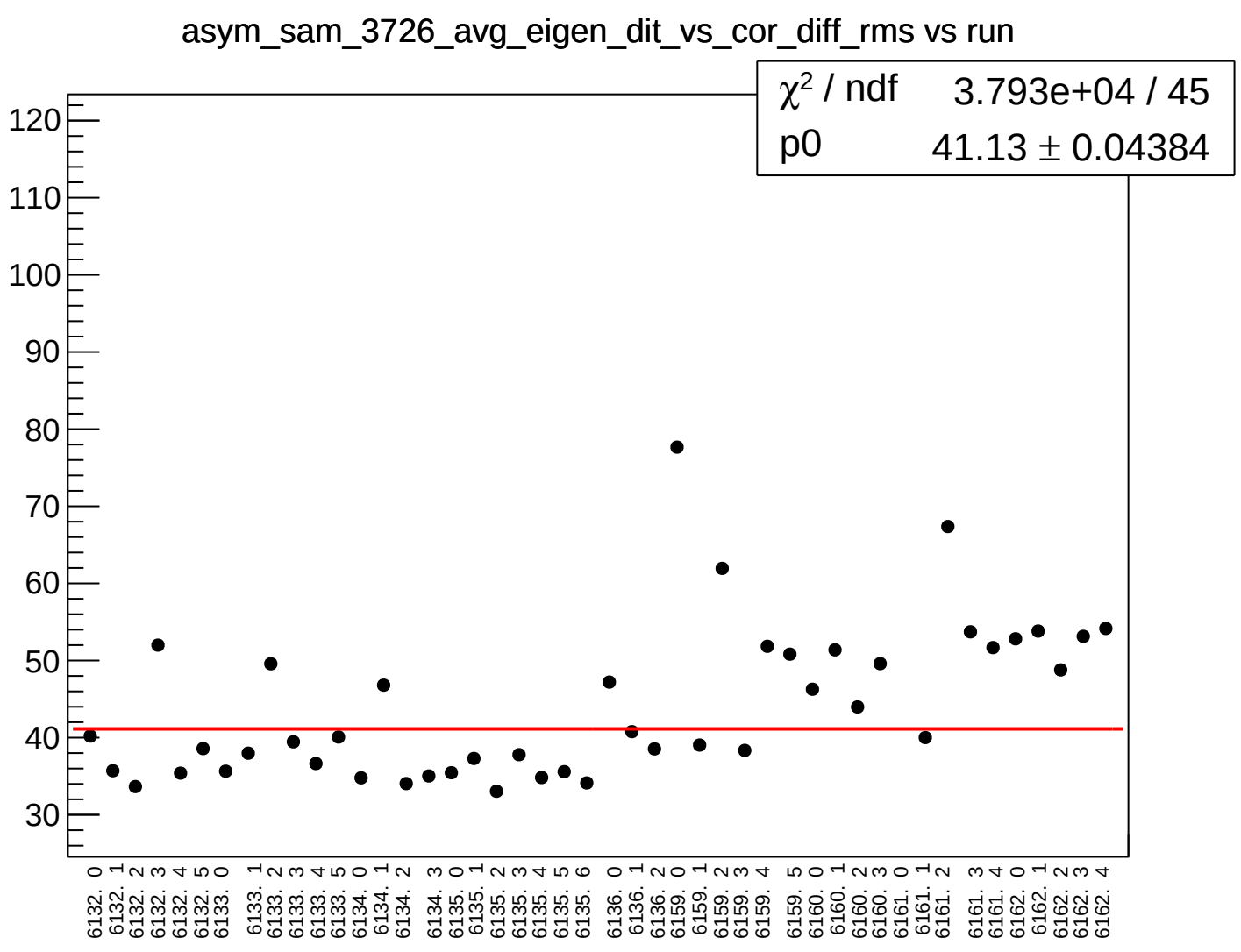

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 50.34 / 45
p0 8.133e−07 ± 4.996e−06
pull
Entries 46
Mean 53.58
Std Dev 0

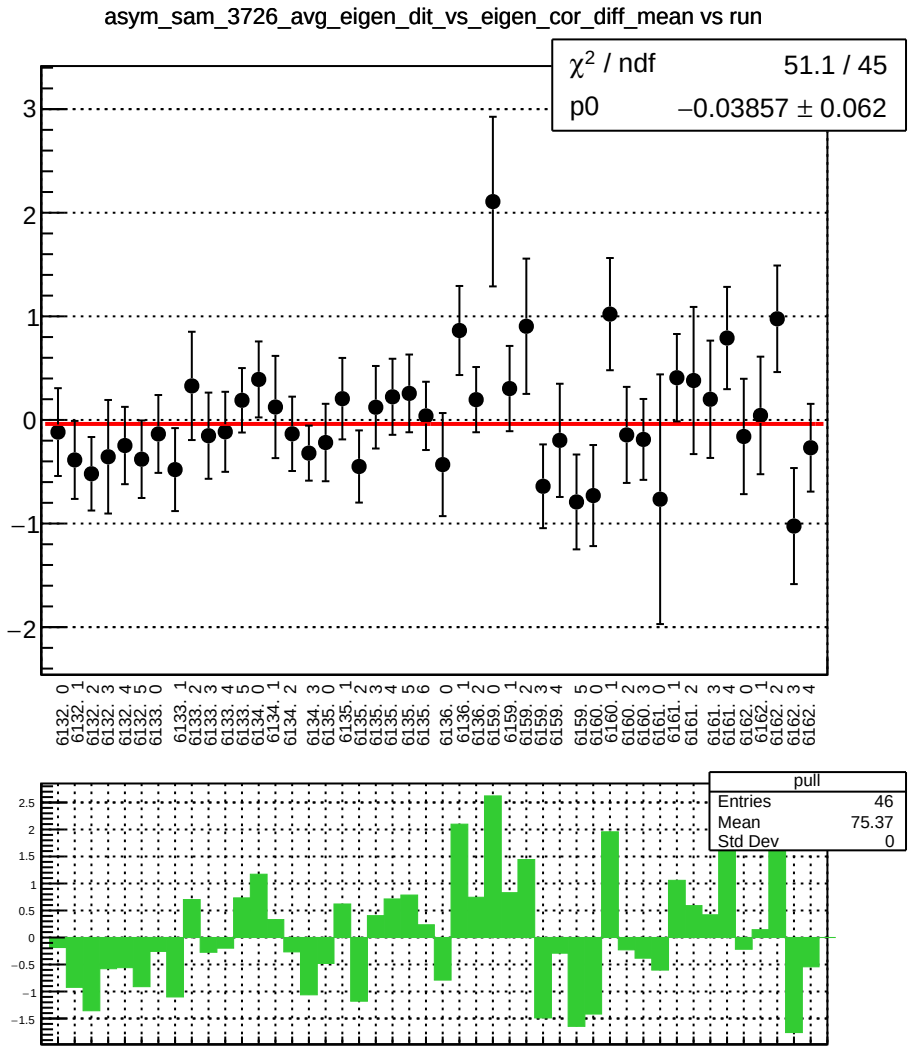

pull1D
Entries 46
Mean −0.0836
Std Dev 1.043

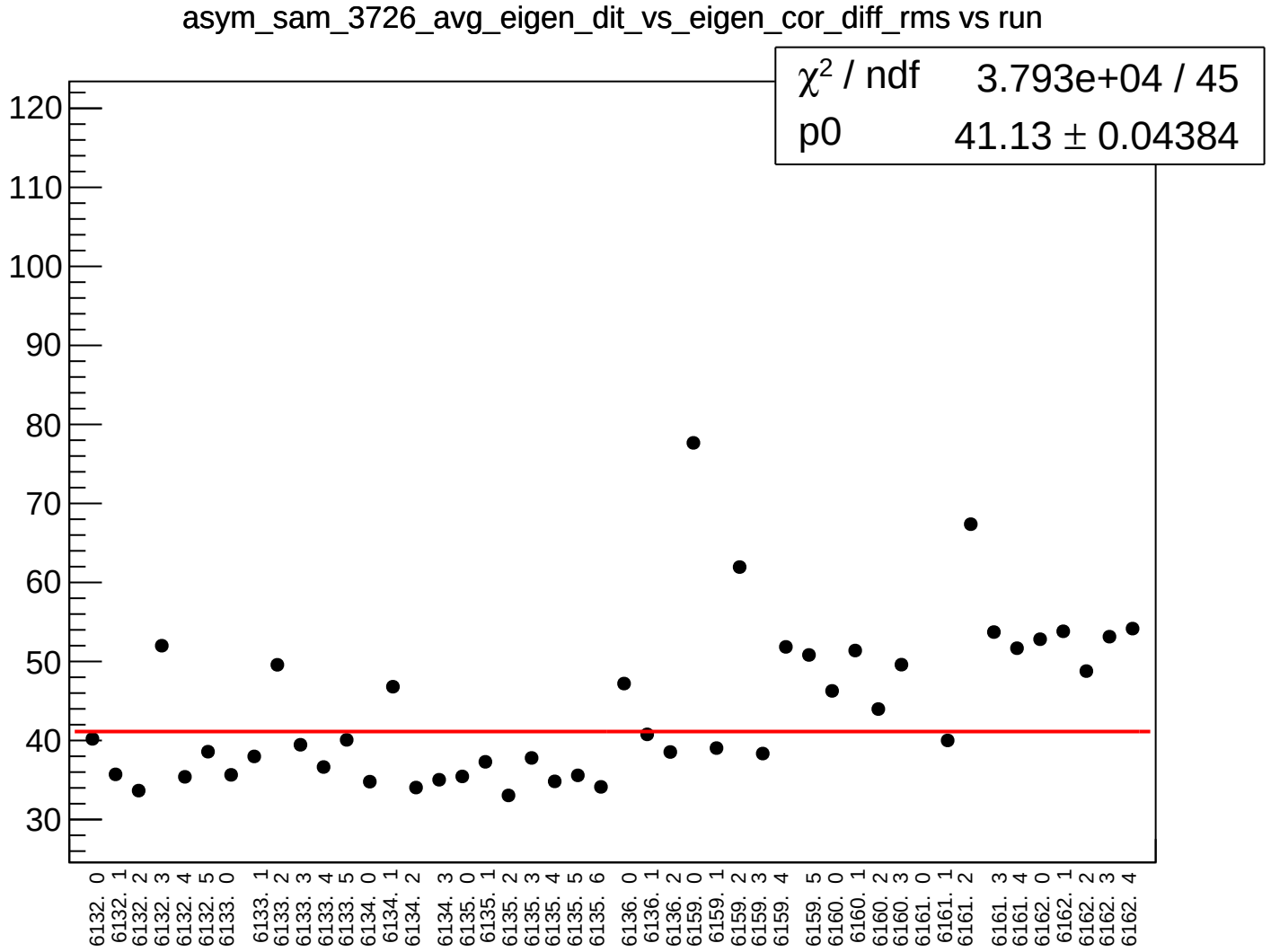

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.62e+05 / 45
p0 0.003072 ± 3.532e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 51.1 / 45
p0 −0.03857 ± 0.062
pull
Entries 46
Mean 75.37
Std Dev 0


pull1D
Entries 46
Mean 0.0559
Std Dev 1.053


asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.793e+04 / 45
p0 41.13 ± 0.04384
120
110
100
90
80
70
60
50
40
30
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.1 / 45
p0 −0.03857 ± 0.062
pull
Entries 46
Mean 75.37
Std Dev 0
pull1D
Entries 46
Mean 0.0559
Std Dev 1.053


asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.793e+04 / 45
p0 41.13 ± 0.04384
120
110
100
90
80
70
60
50
40
30
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6134. 0
6134. 1
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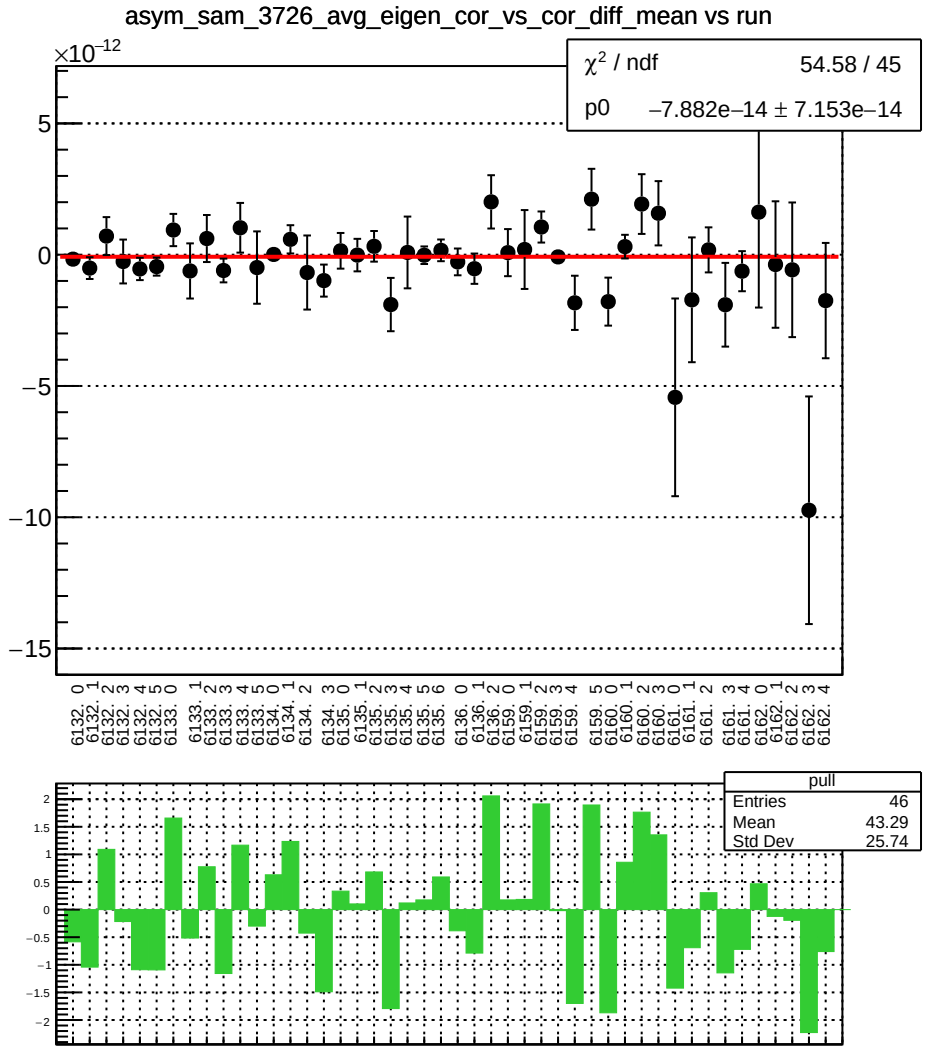
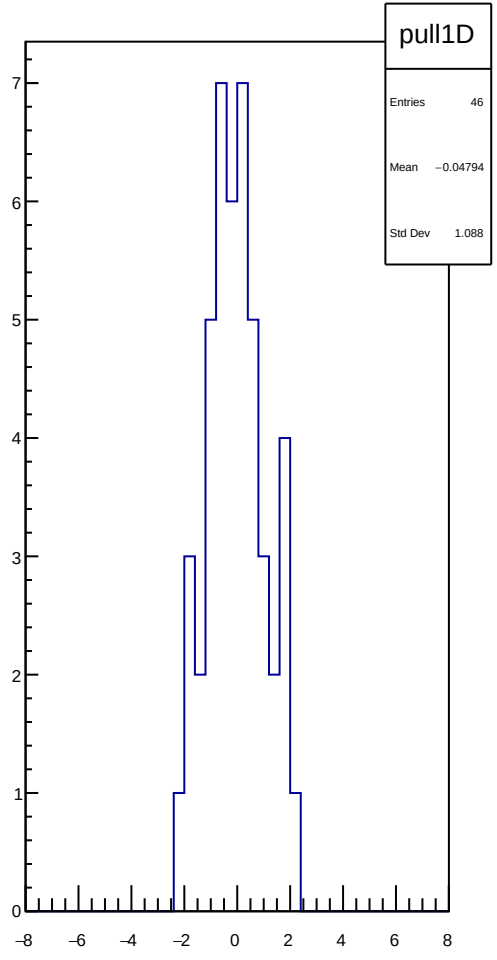
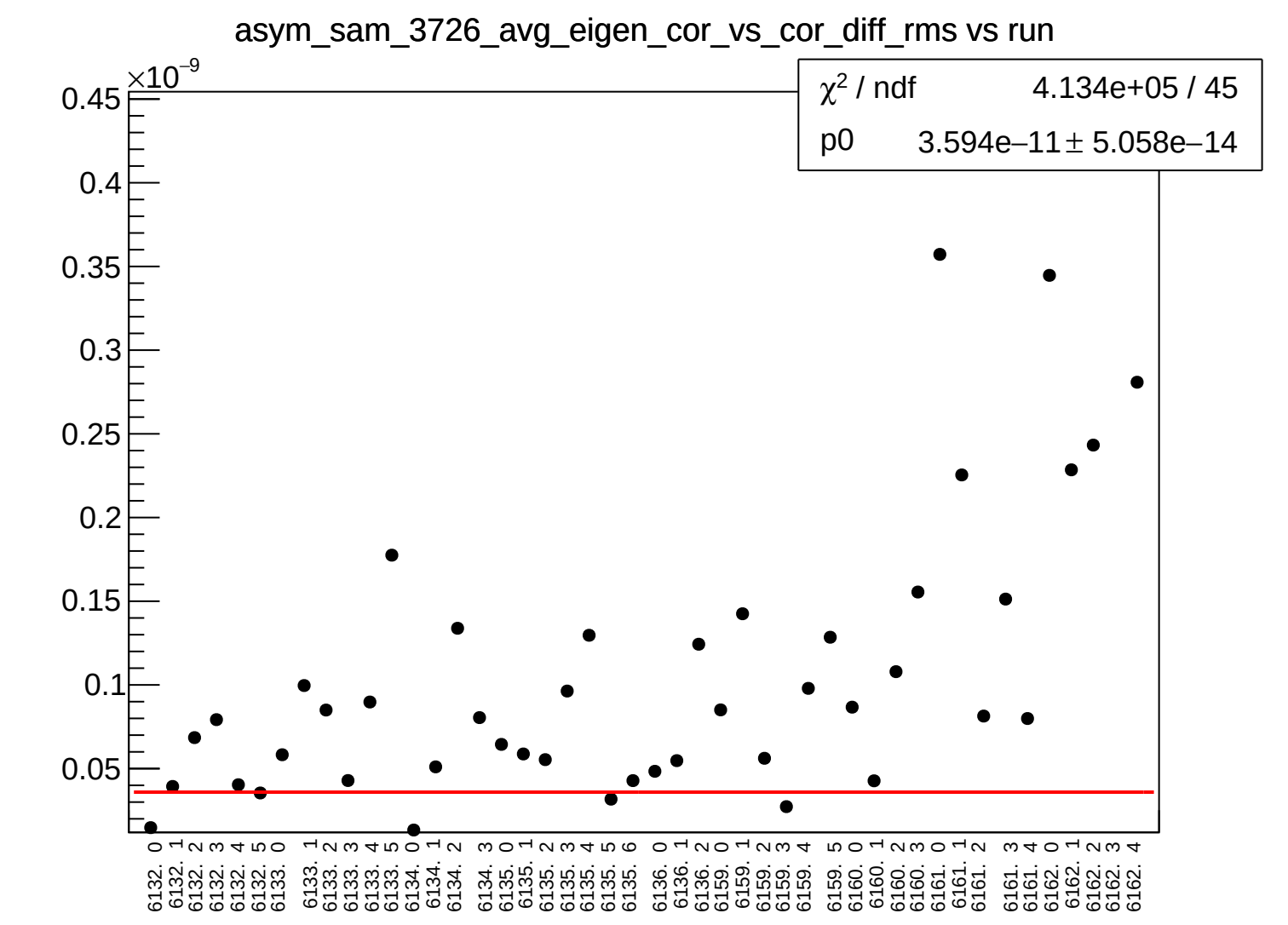
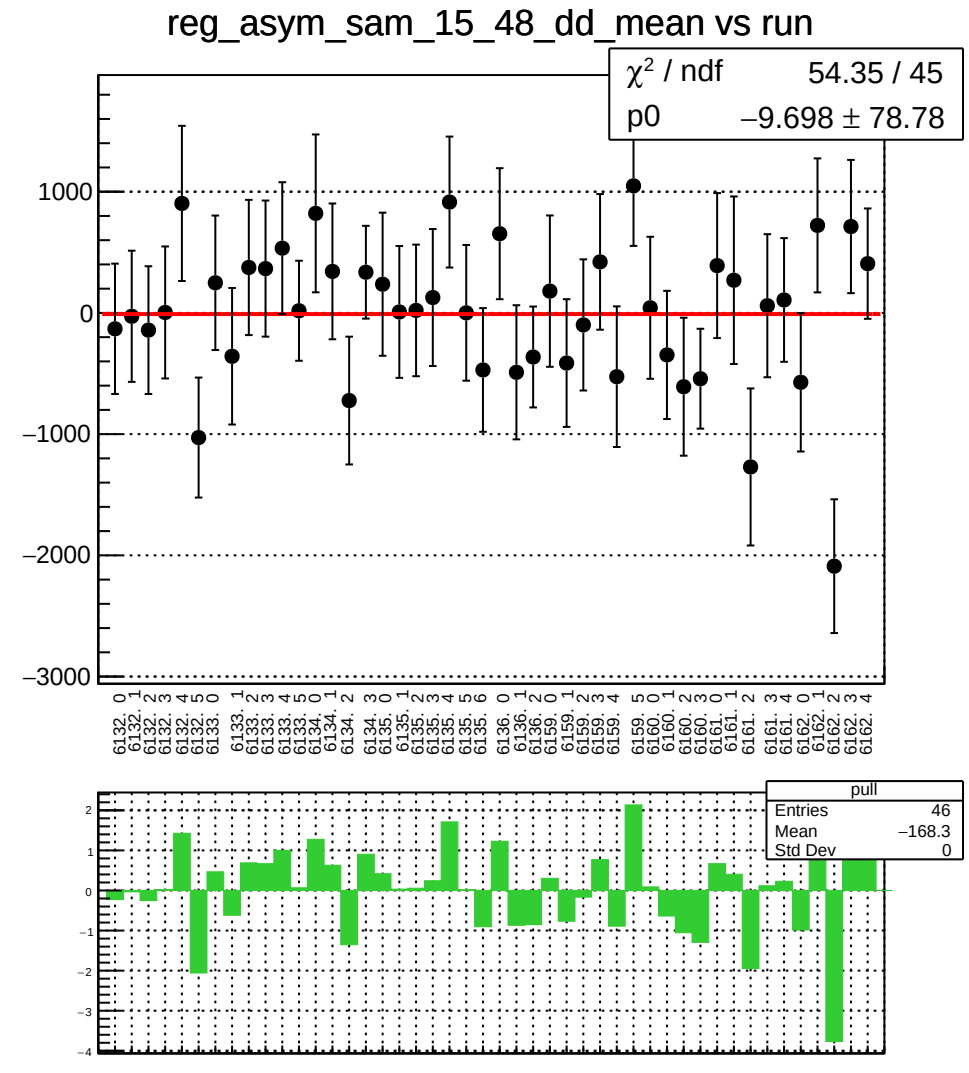
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 54.58 / 45
p0 −7.882e−14 ± 7.153e−14
pull
Entries 46
Mean 43.29
Std Dev 25.74


pull1D
Entries 46
Mean −0.04794
Std Dev 1.088


asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.134e+05 / 45
p0 3.594e−11 ± 5.058e−14
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
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 54.35 / 45
p0 −9.698 ± 78.78
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6136. 0
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6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
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pull
Entries 46
Mean −168.3
Std Dev 0
2
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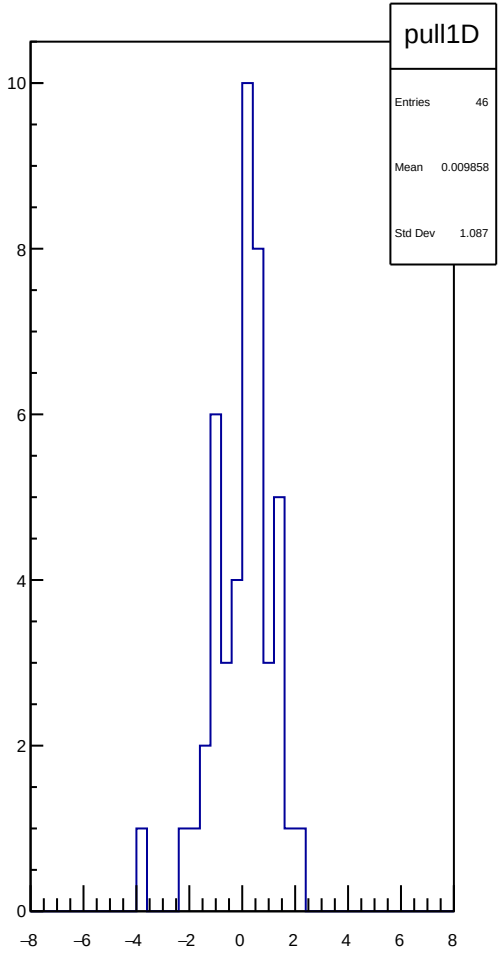
−1
−2
−3
−4


pull1D
Entries 46
Mean 0.009858
Std Dev 1.087
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−4
−2
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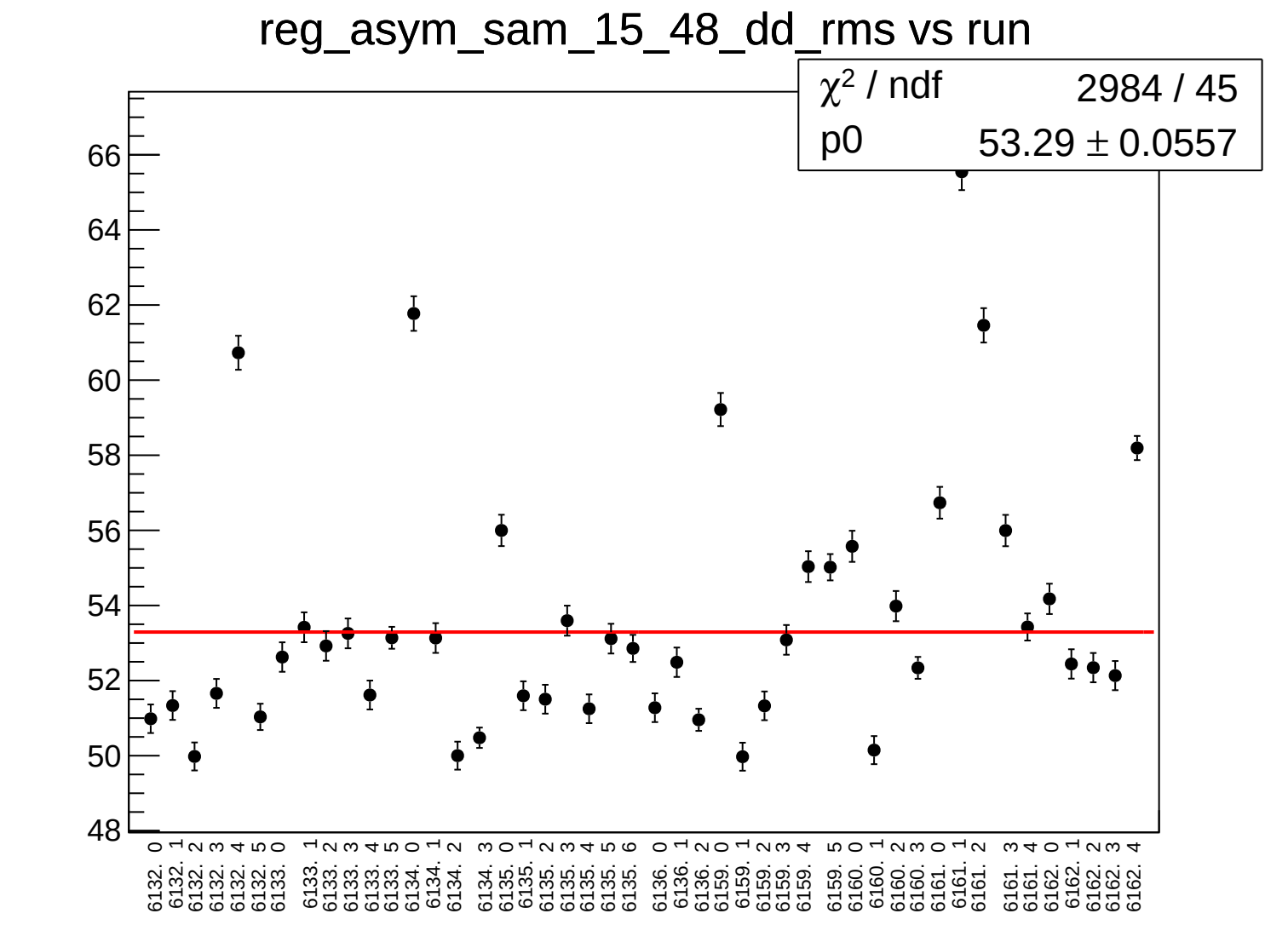
reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 2984 / 45
p0 53.29 ± 0.0557
66
64
62
60
58
56
54
52
50
48
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
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6136. 2
6159. 0
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6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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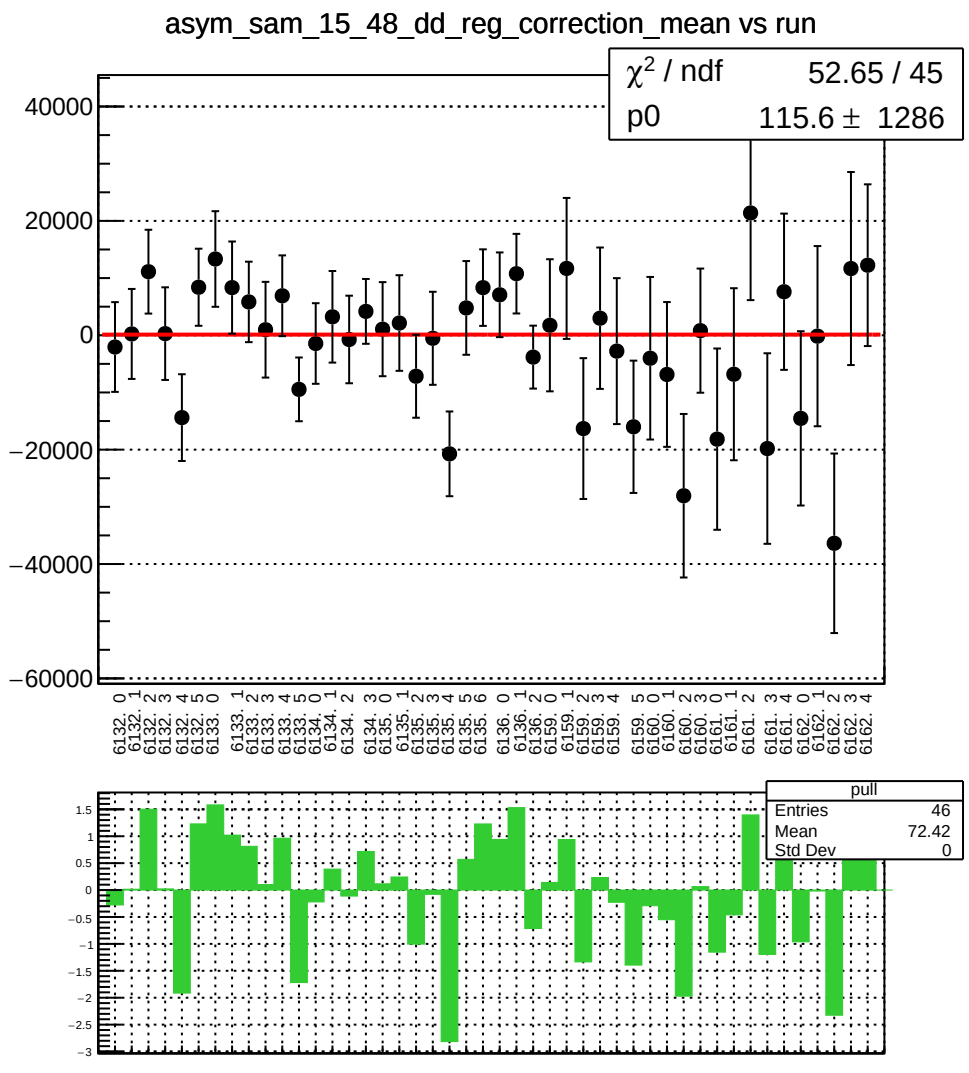
asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 52.65 / 45
p0 115.6 ± 1286
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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6159. 2
6159. 3
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6159. 5
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6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 72.42
Std Dev 0
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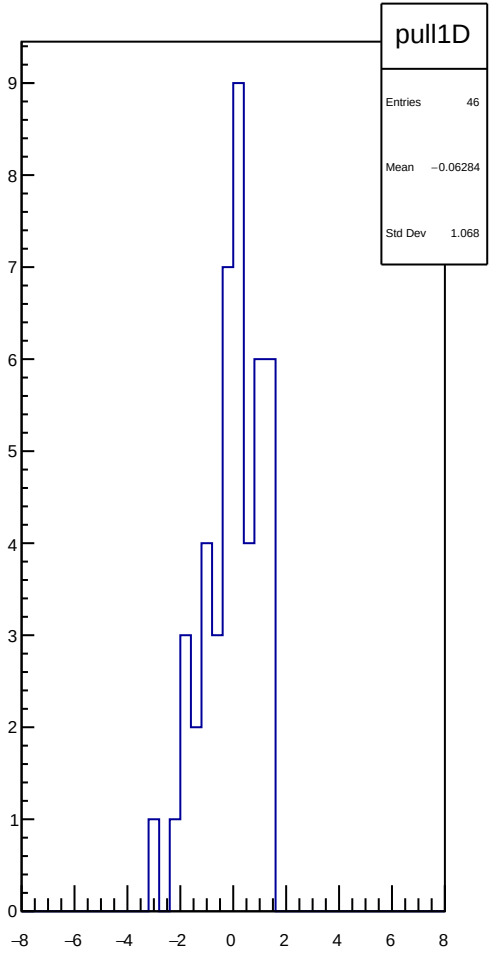
−1
−1.5
−2
−2.5
−3


pull1D
Entries 46
Mean −0.06284
Std Dev 1.068
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−4
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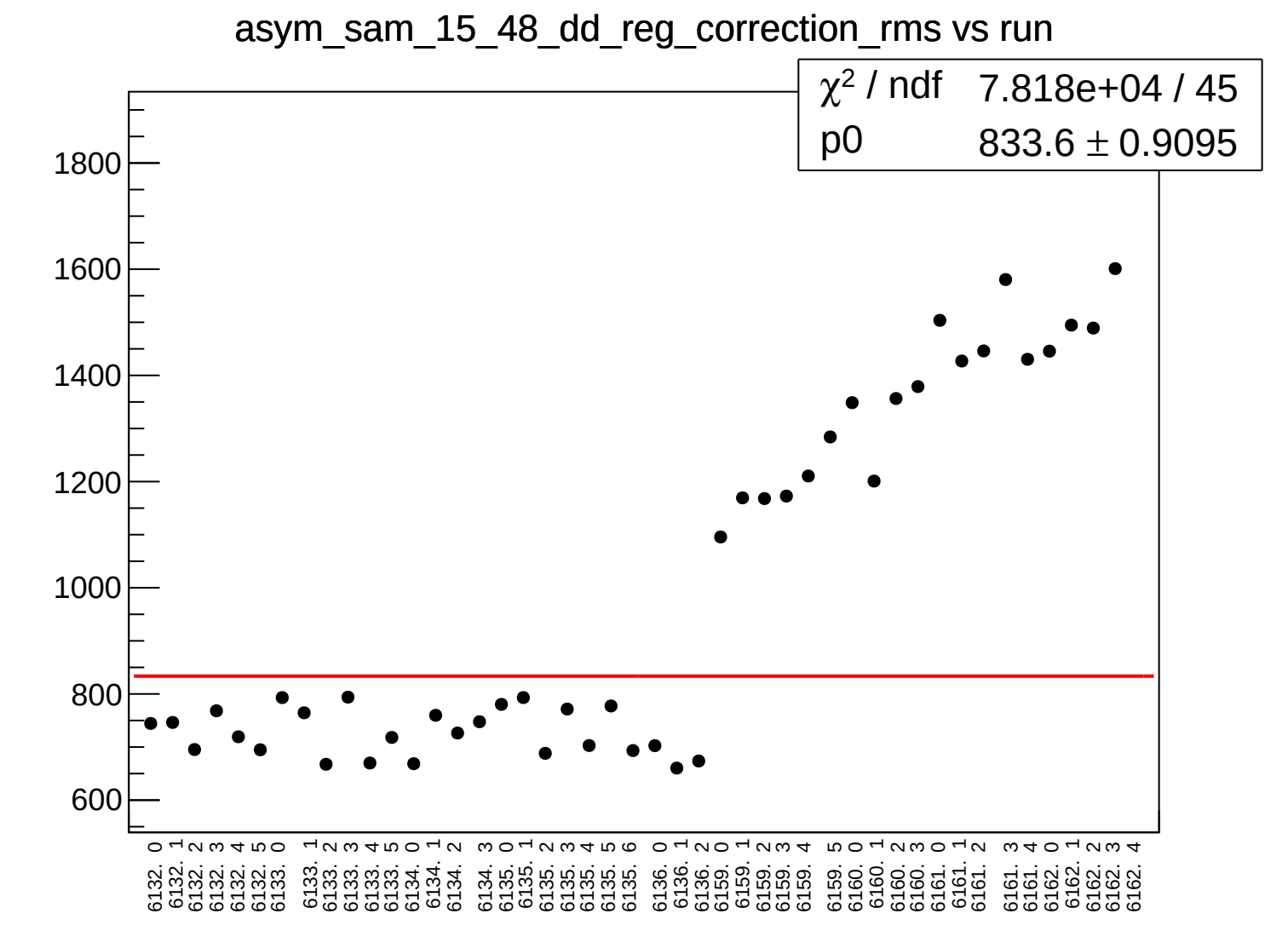
6
8


asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 7.818e+04 / 45
p0 833.6 ± 0.9095
1800
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
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6134. 0
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6134. 2
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6135. 2
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6135. 5
6135. 6
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6136. 2
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6159. 1
6159. 2
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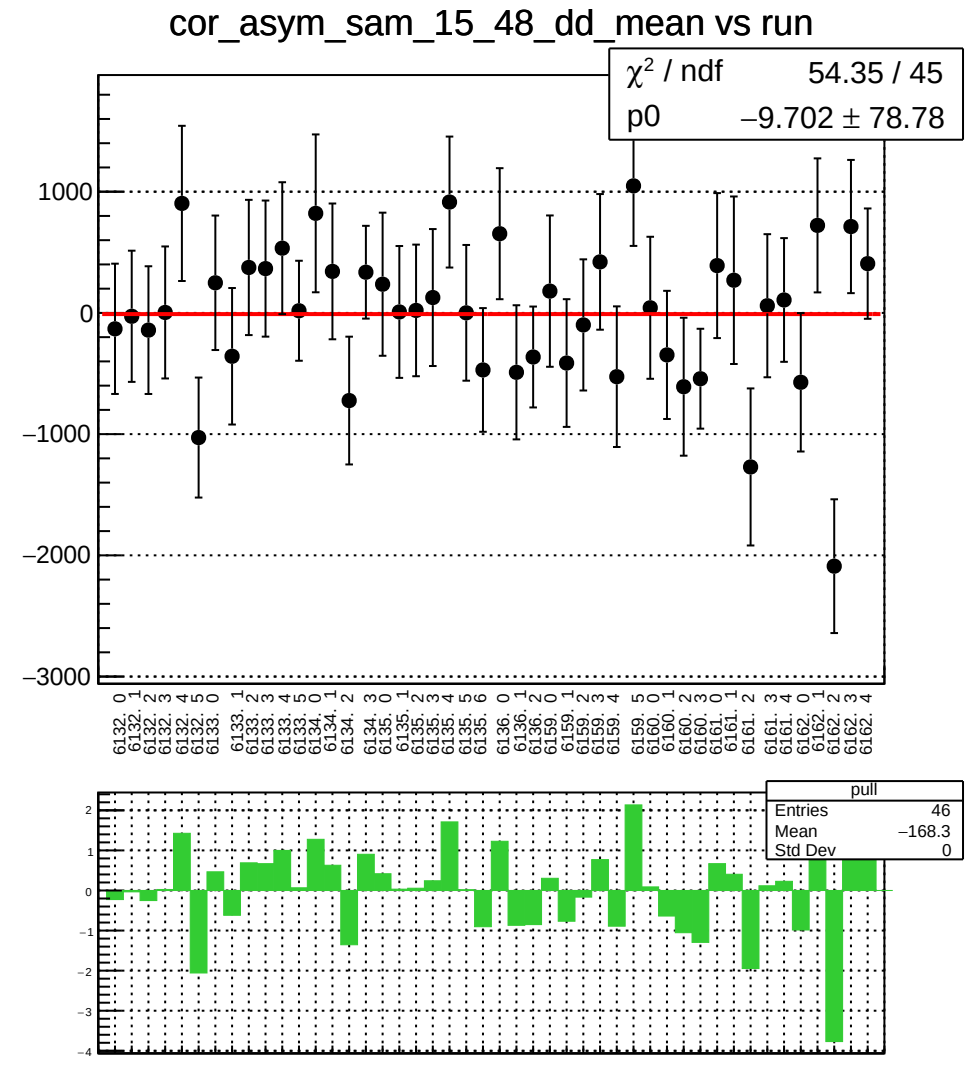
cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 54.35 / 45
p0 −9.702 ± 78.78
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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6133. 4
6133. 5
6134. 0
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6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
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6135. 5
6135. 6
6136. 0
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6136. 2
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6159. 2
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6162. 1
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pull
Entries 46
Mean −168.3
Std Dev 0
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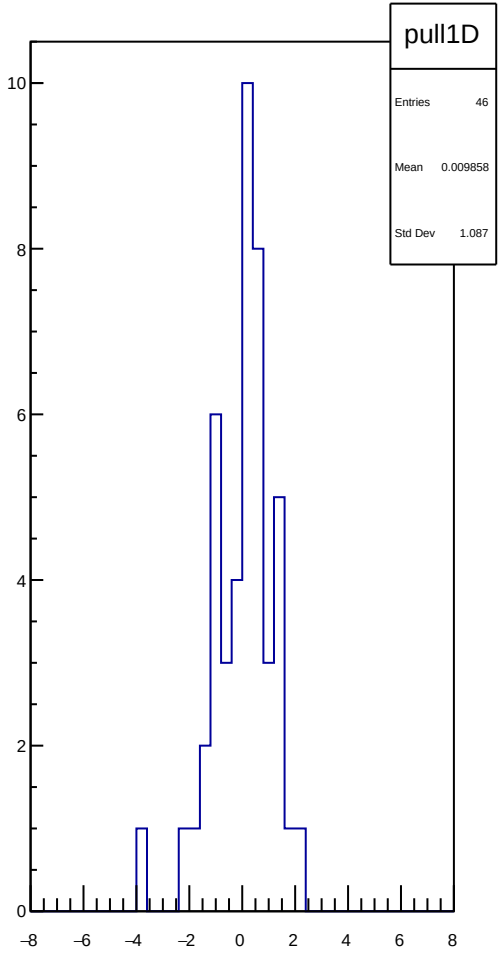
−2
−3
−4


pull1D
Entries 46
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Std Dev 1.087
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−4
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2
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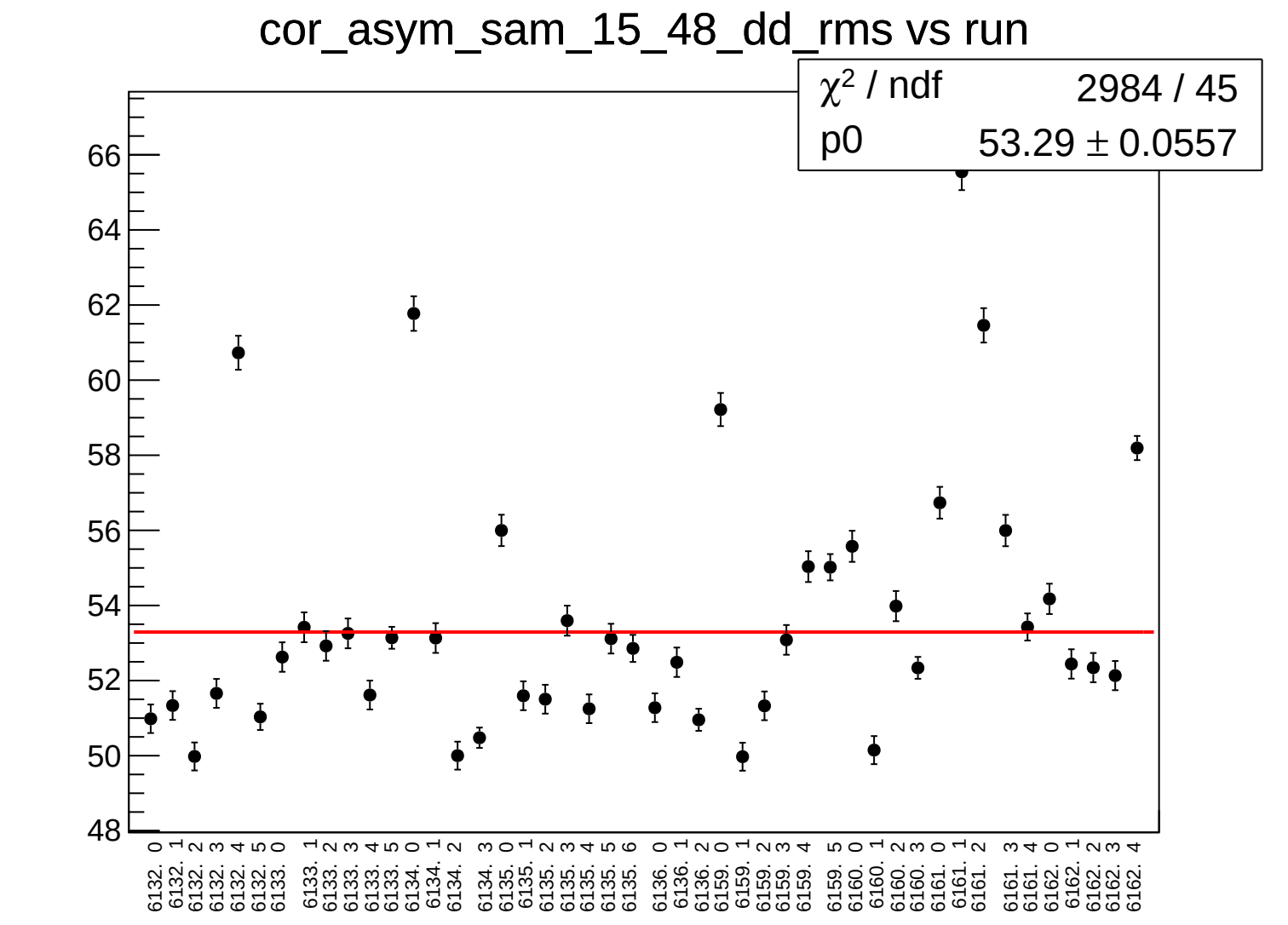
cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 2984 / 45
p0 53.29 ± 0.0557
66
64
62
60
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56
54
52
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48
6132. 0
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6132. 2
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6136. 2
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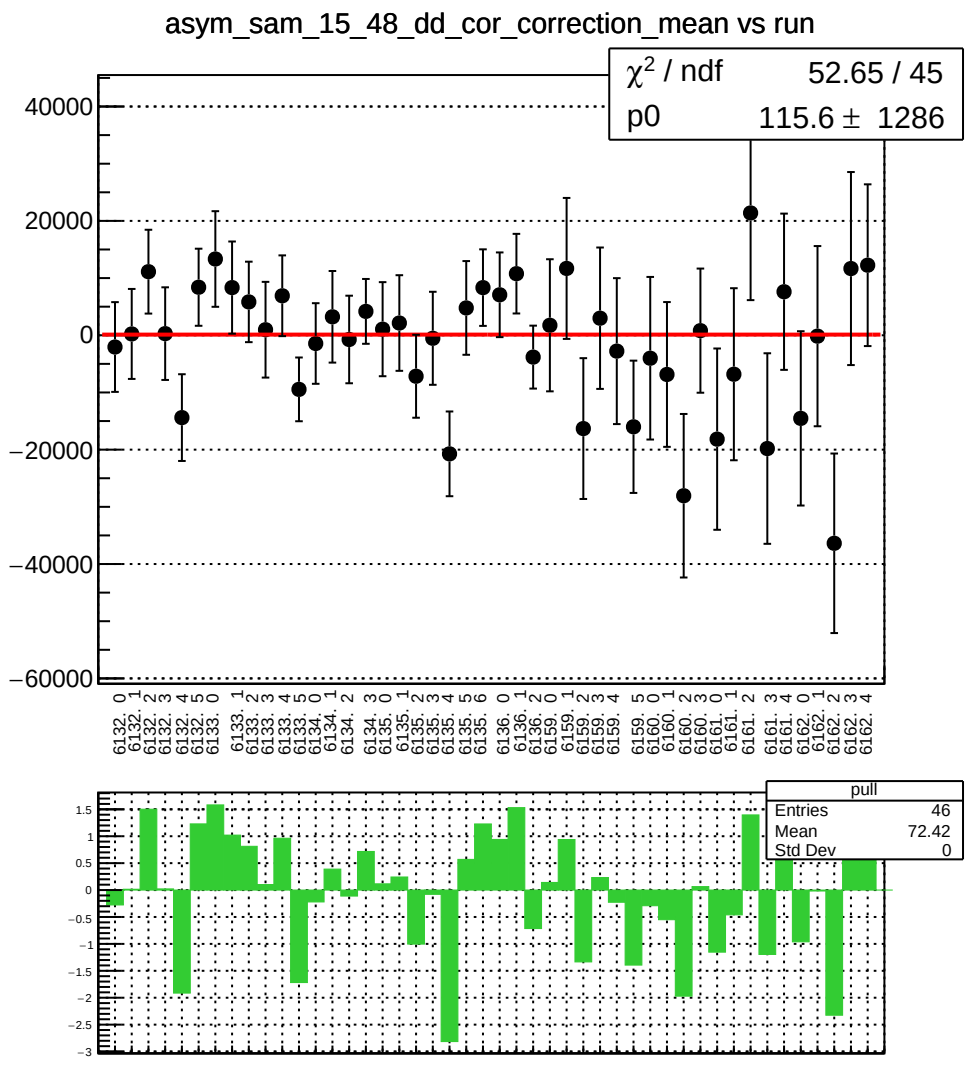
asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 52.65 / 45
p0 115.6 ± 1286
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
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6134. 0
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6162. 3
6162. 4
pull
Entries 46
Mean 72.42
Std Dev 0
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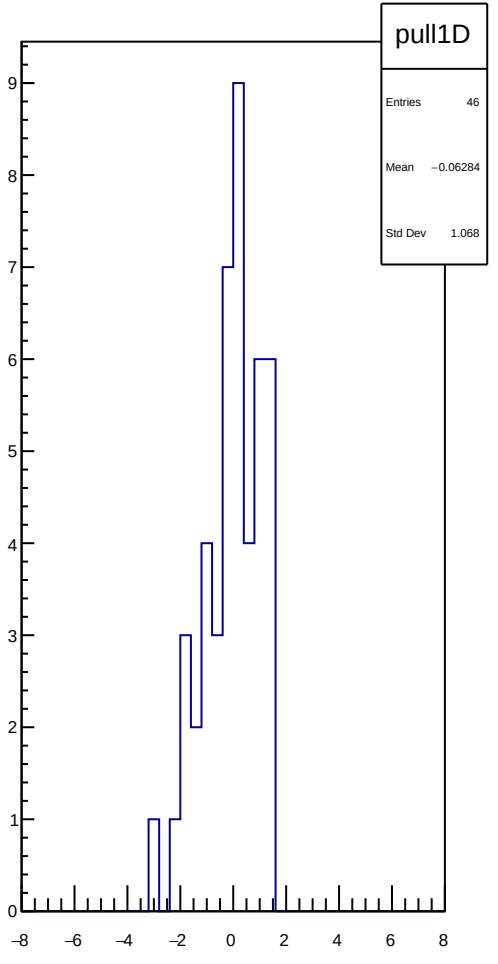
−1.5
−2
−2.5
−3


pull1D
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Mean −0.06284
Std Dev 1.068
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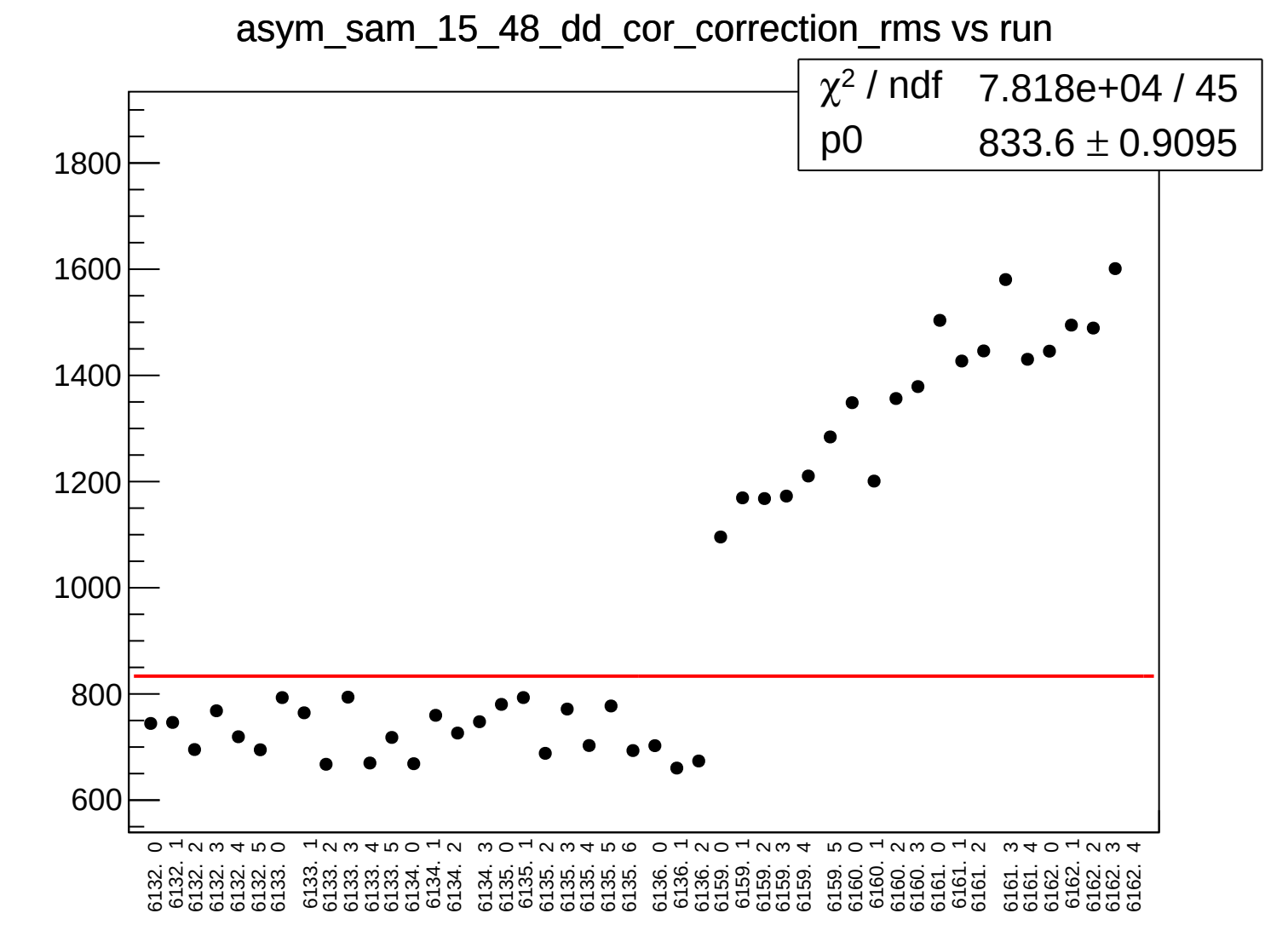
asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 7.818e+04 / 45
p0 833.6 ± 0.9095
1800
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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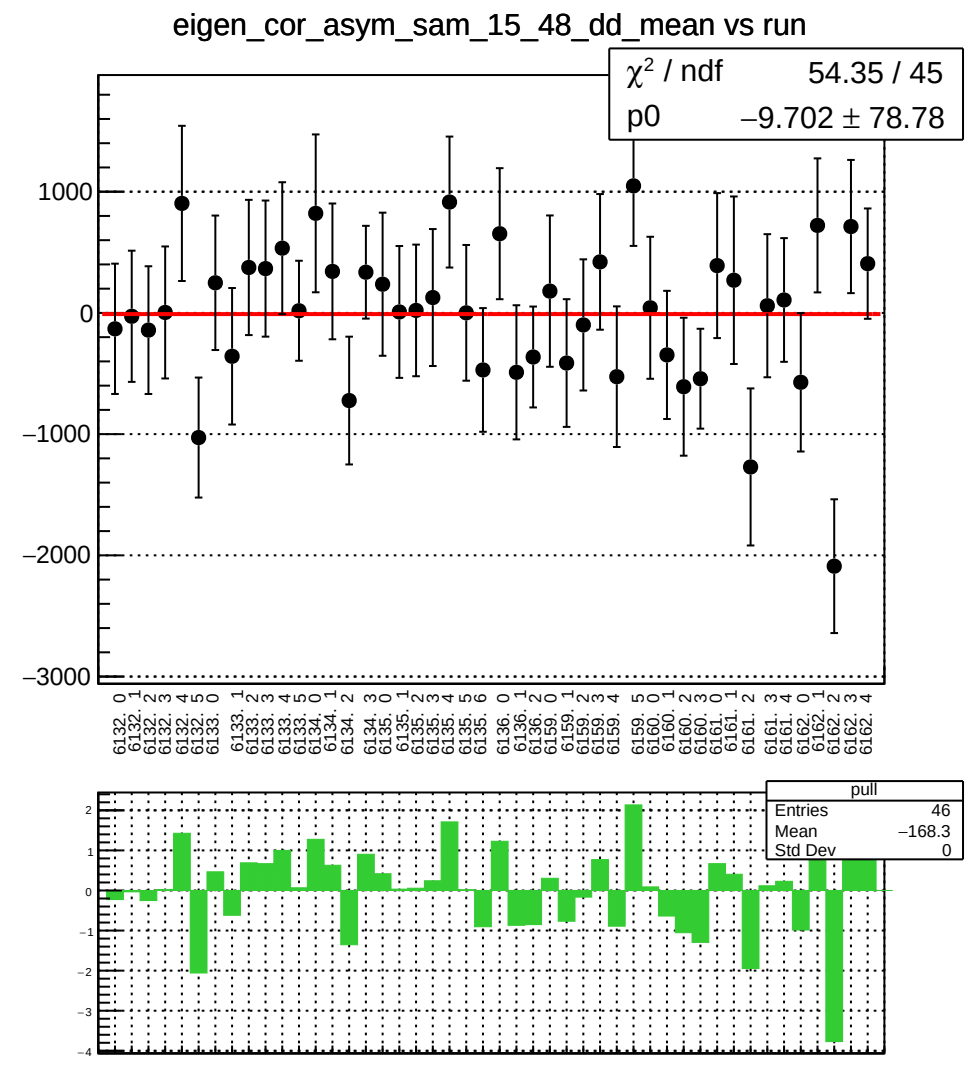
eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 54.35 / 45
p0 −9.702 ± 78.78
1000
0
−1000
−2000
−3000
6132. 0
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pull
Entries 46
Mean −168.3
Std Dev 0
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−2
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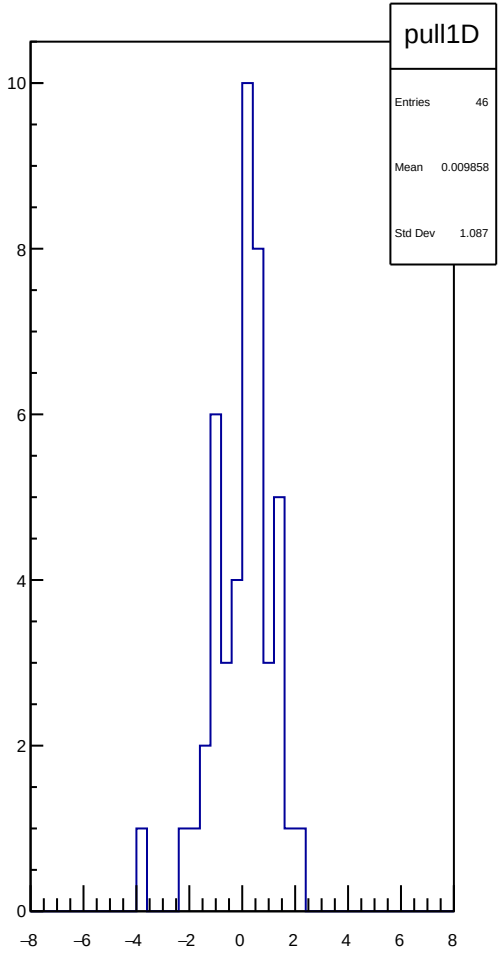
−4


pull1D
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Std Dev 1.087
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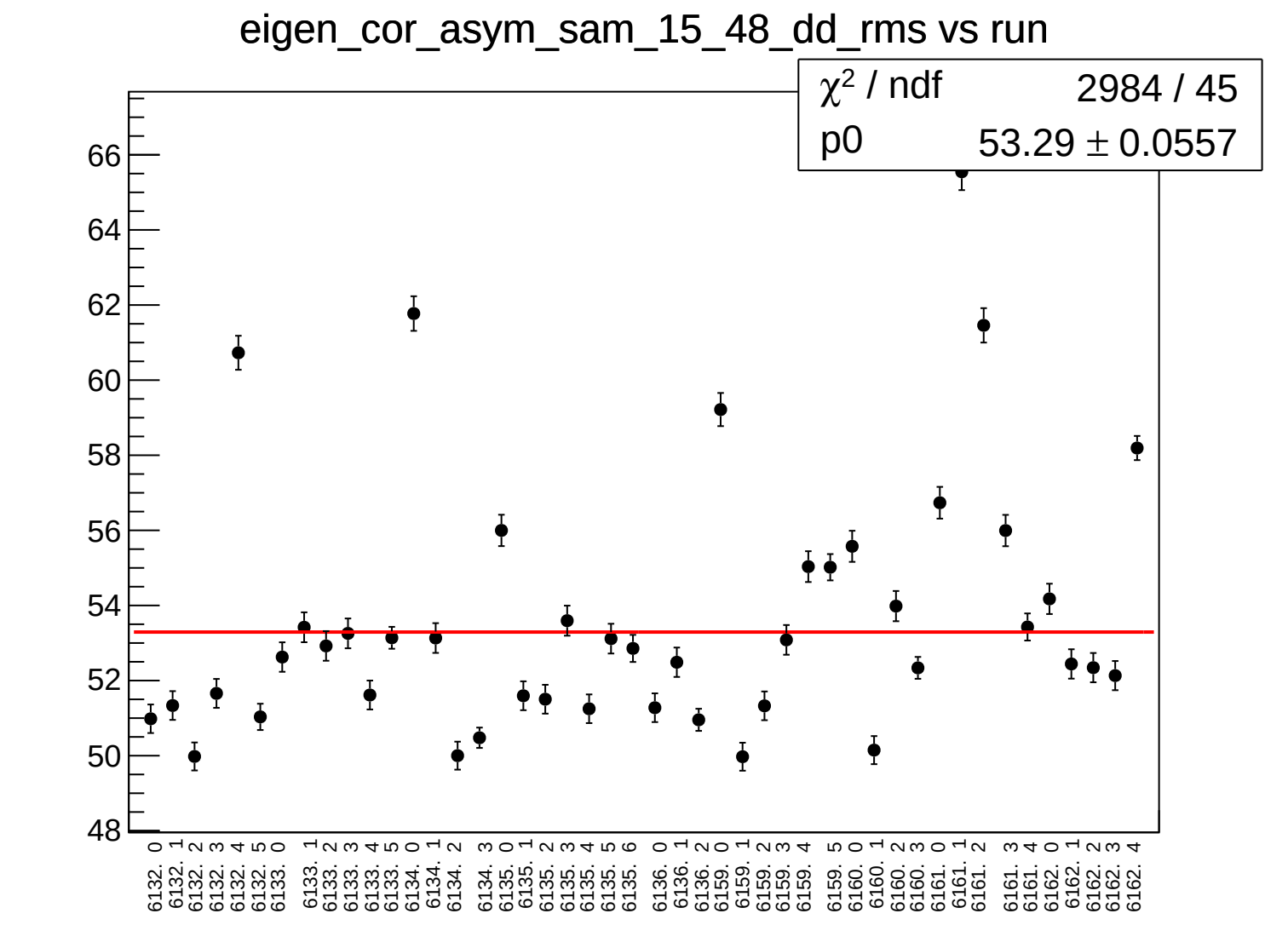
eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 2984 / 45
p0 53.29 ± 0.0557
66
64
62
60
58
56
54
52
50
48
6132. 0
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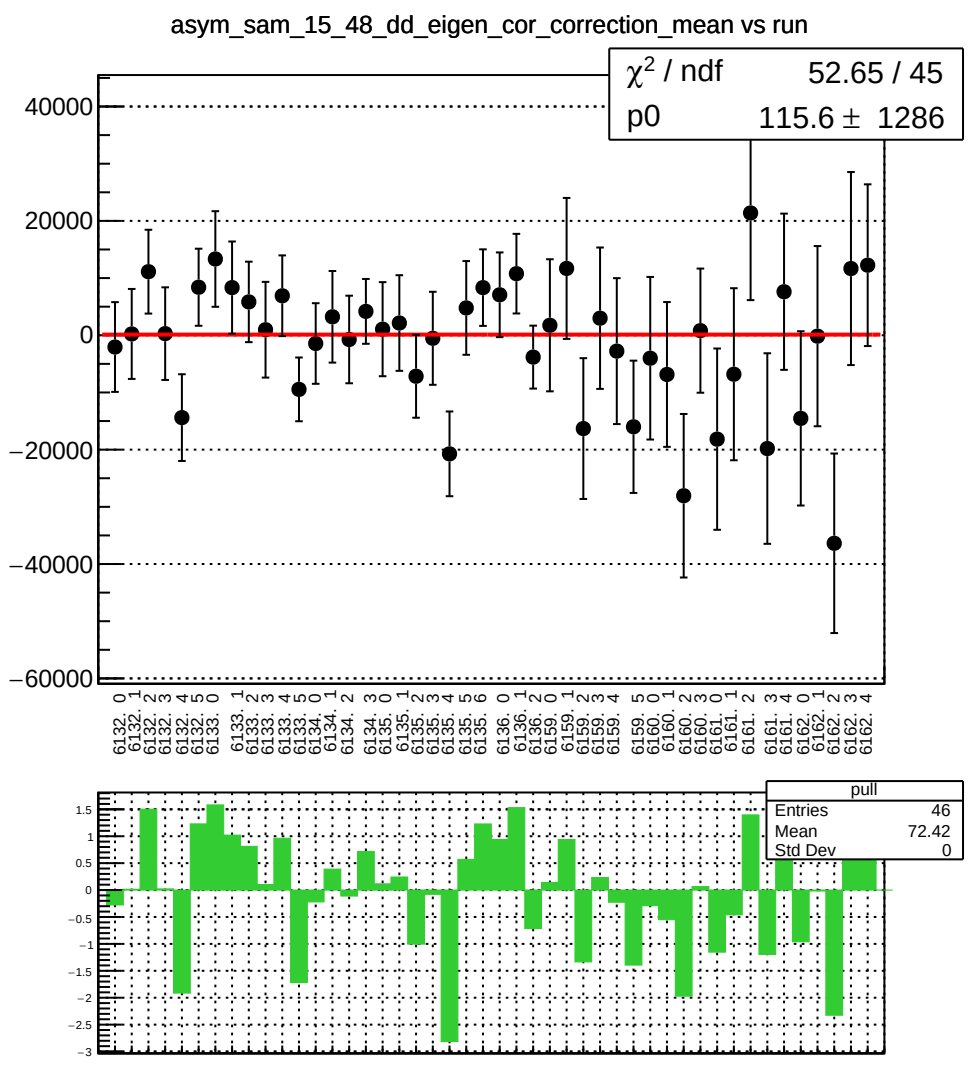
asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 52.65 / 45
p0 115.6 ± 1286
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6133. 2
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pull
Entries 46
Mean 72.42
Std Dev 0
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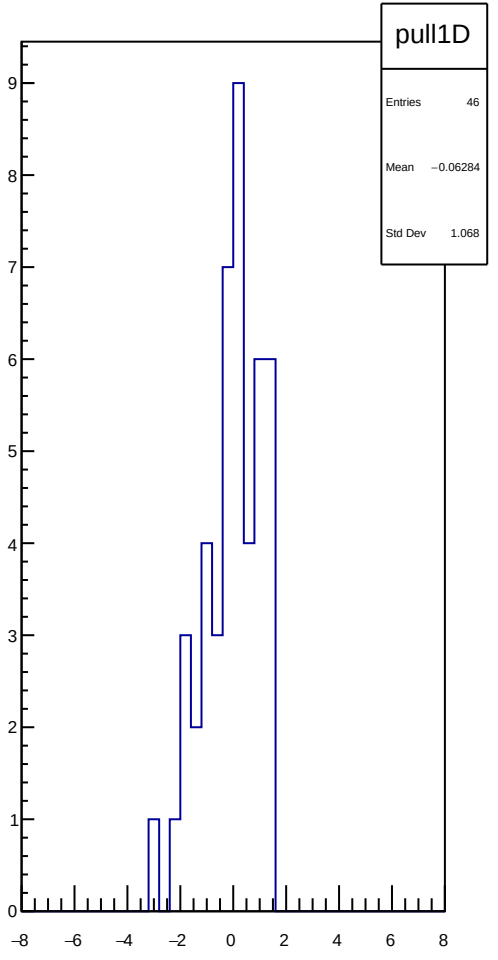
−3


pull1D
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Mean −0.06284
Std Dev 1.068
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−4
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2
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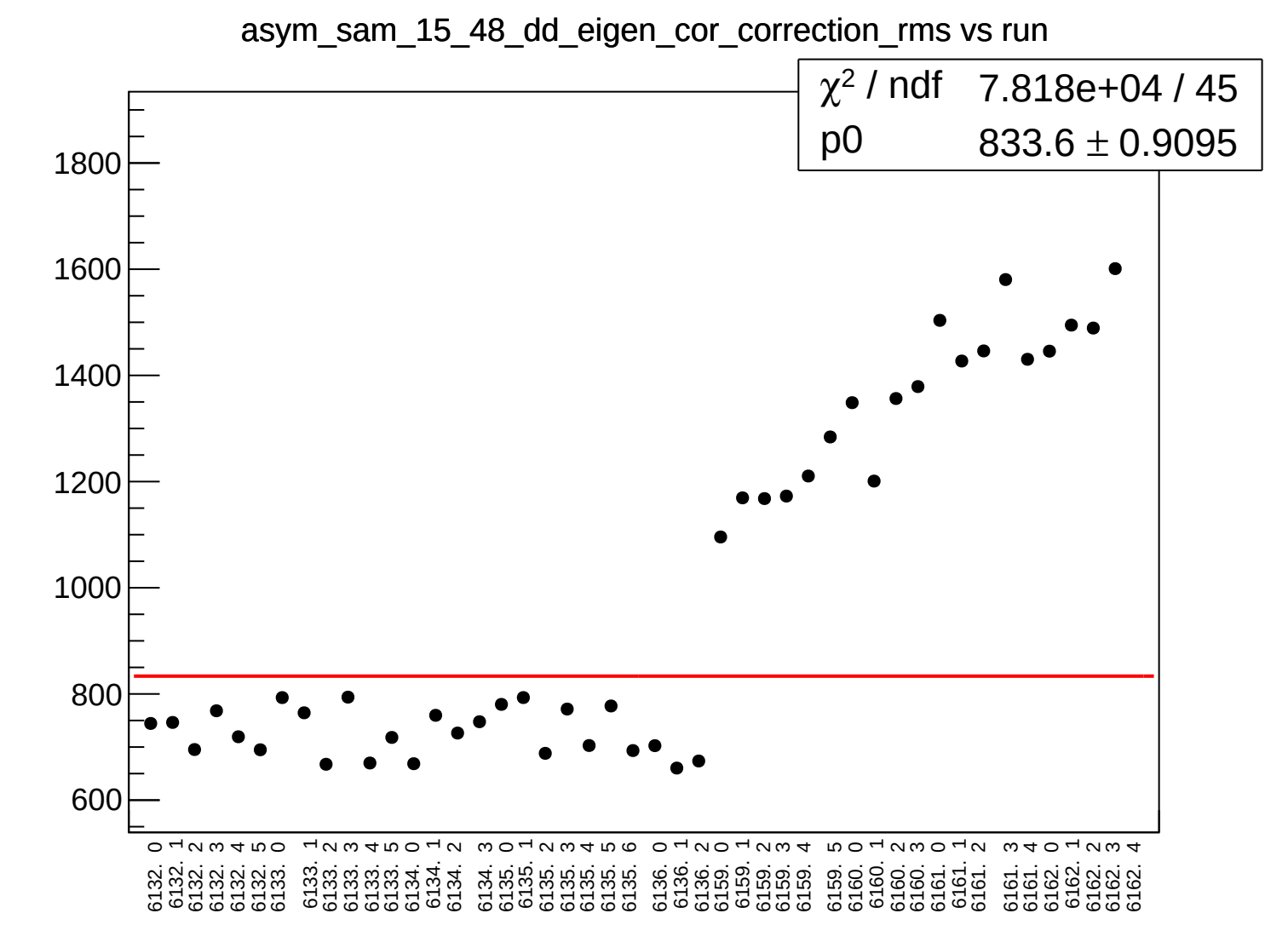
asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 7.818e+04 / 45
p0 833.6 ± 0.9095
1800
1600
1400
1200
1000
800
600
6132. 0
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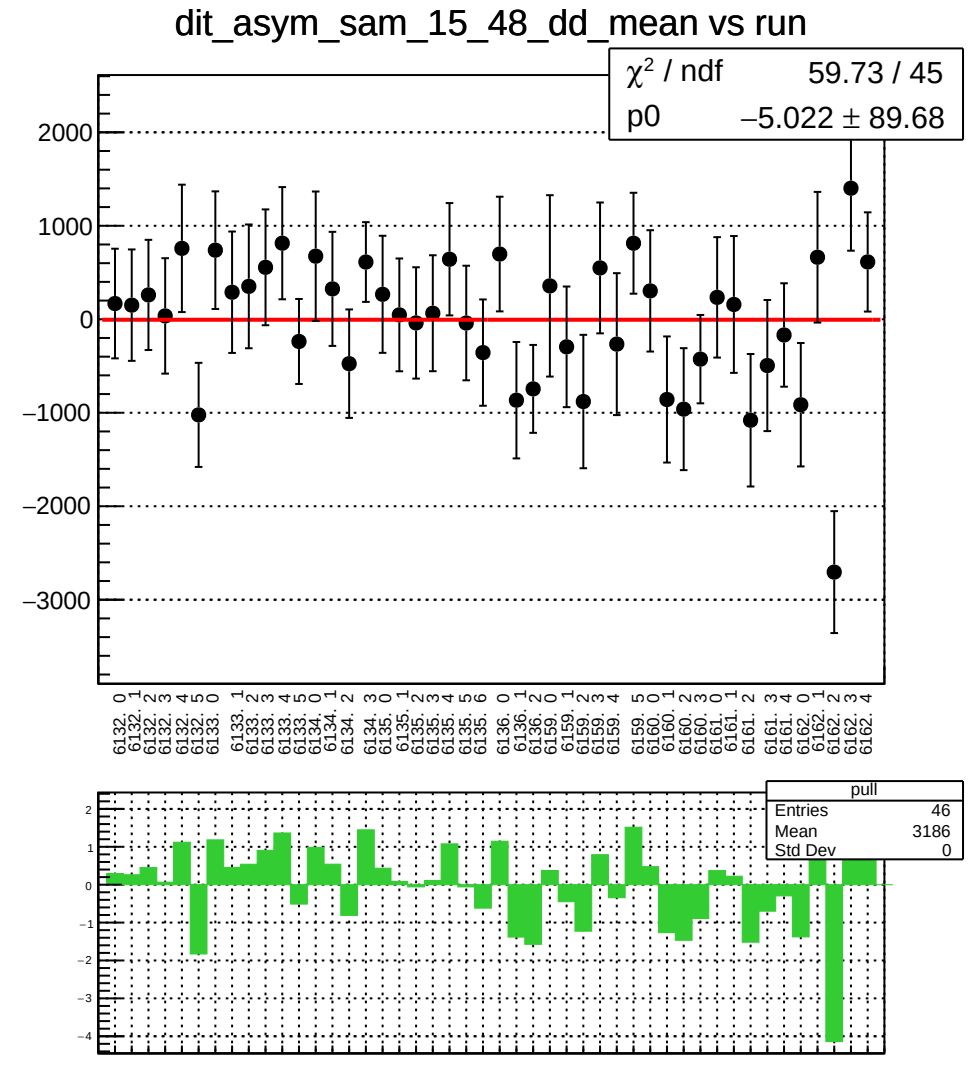
dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 59.73 / 45
p0 −5.022 ± 89.68
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1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
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6132. 5
6133. 0
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6133. 2
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pull
Entries 46
Mean 3186
Std Dev 0
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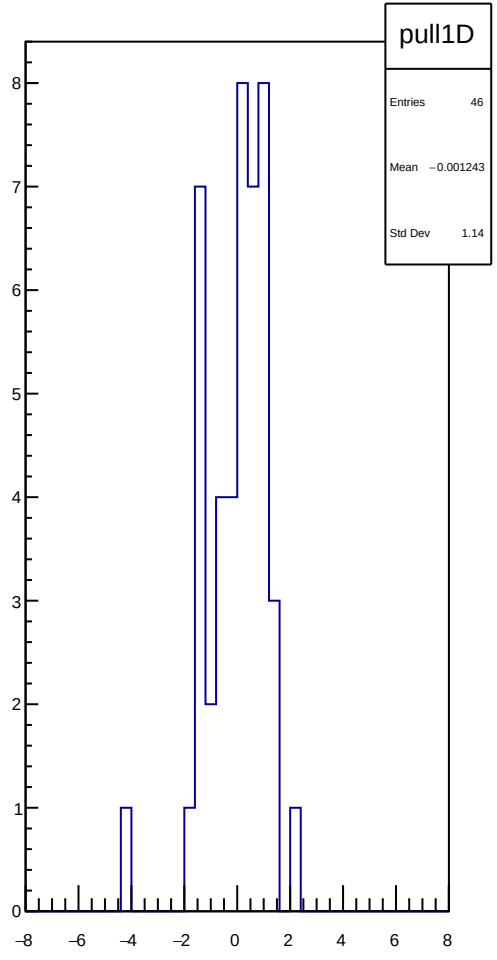
−4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Mean −0.001243
Std Dev 1.14
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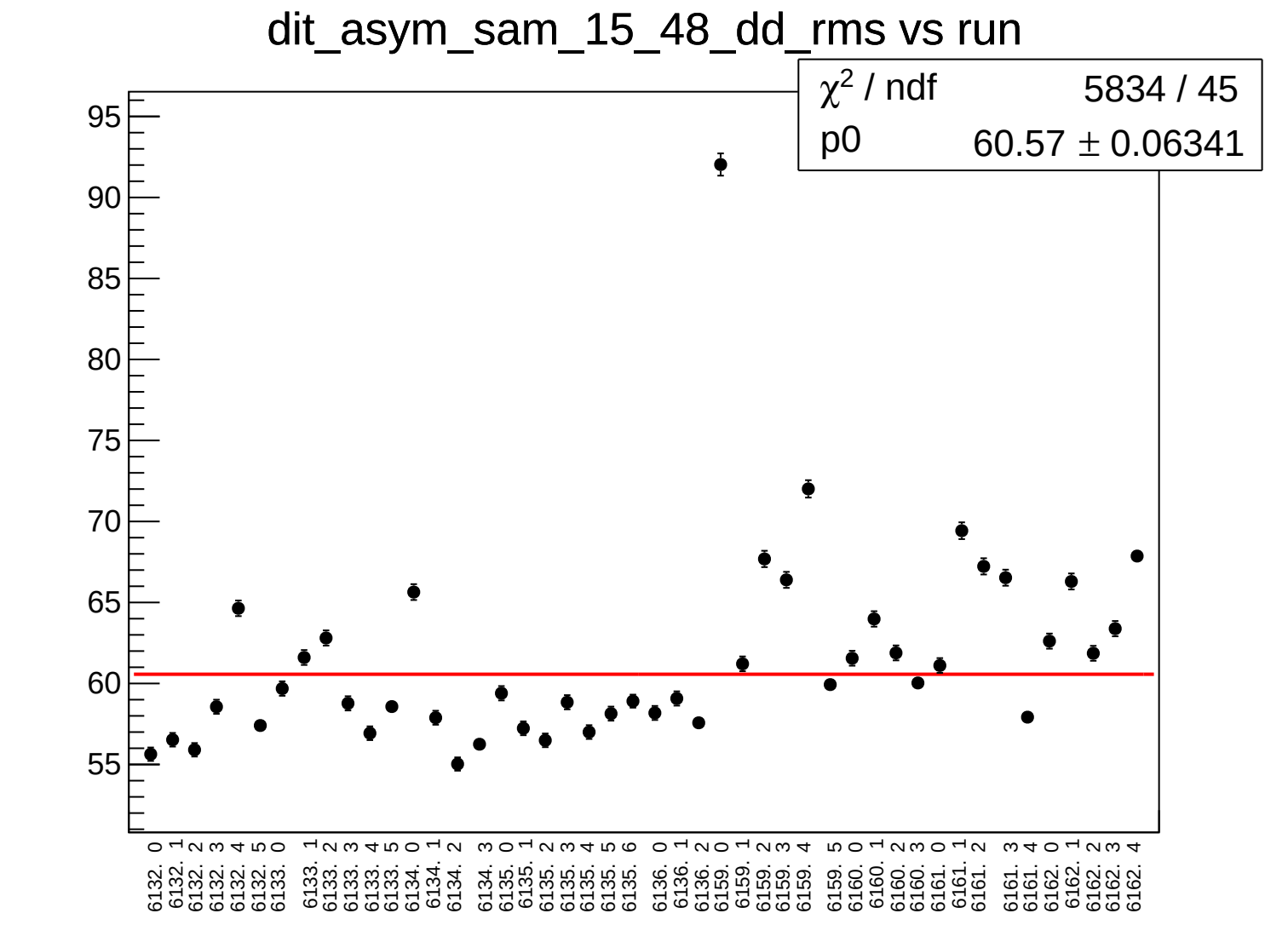
dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 5834 / 45
p0 60.57 ± 0.06341
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90
85
80
75
70
65
60
55
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6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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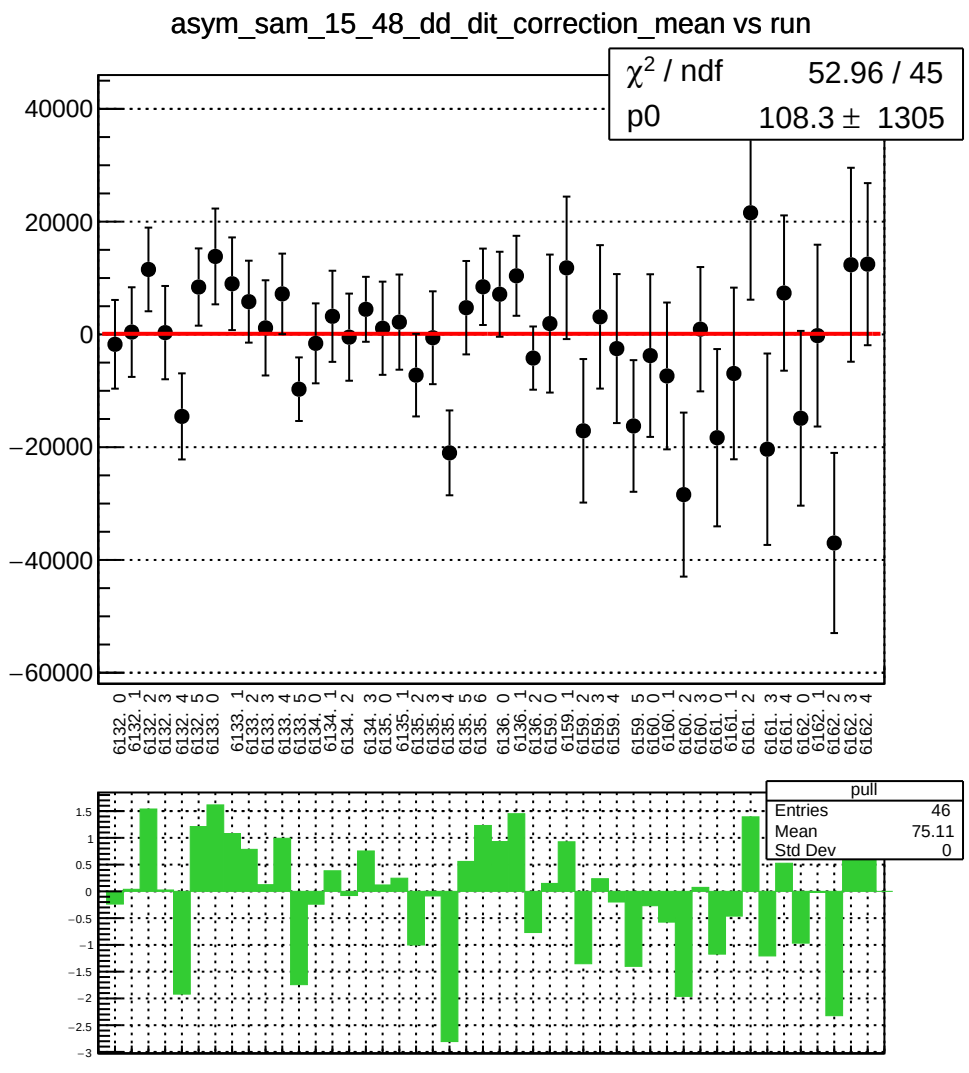
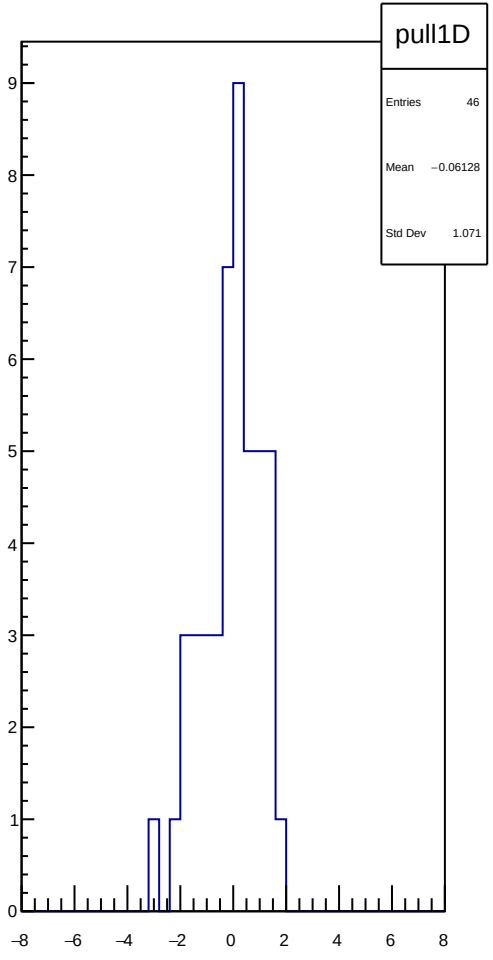
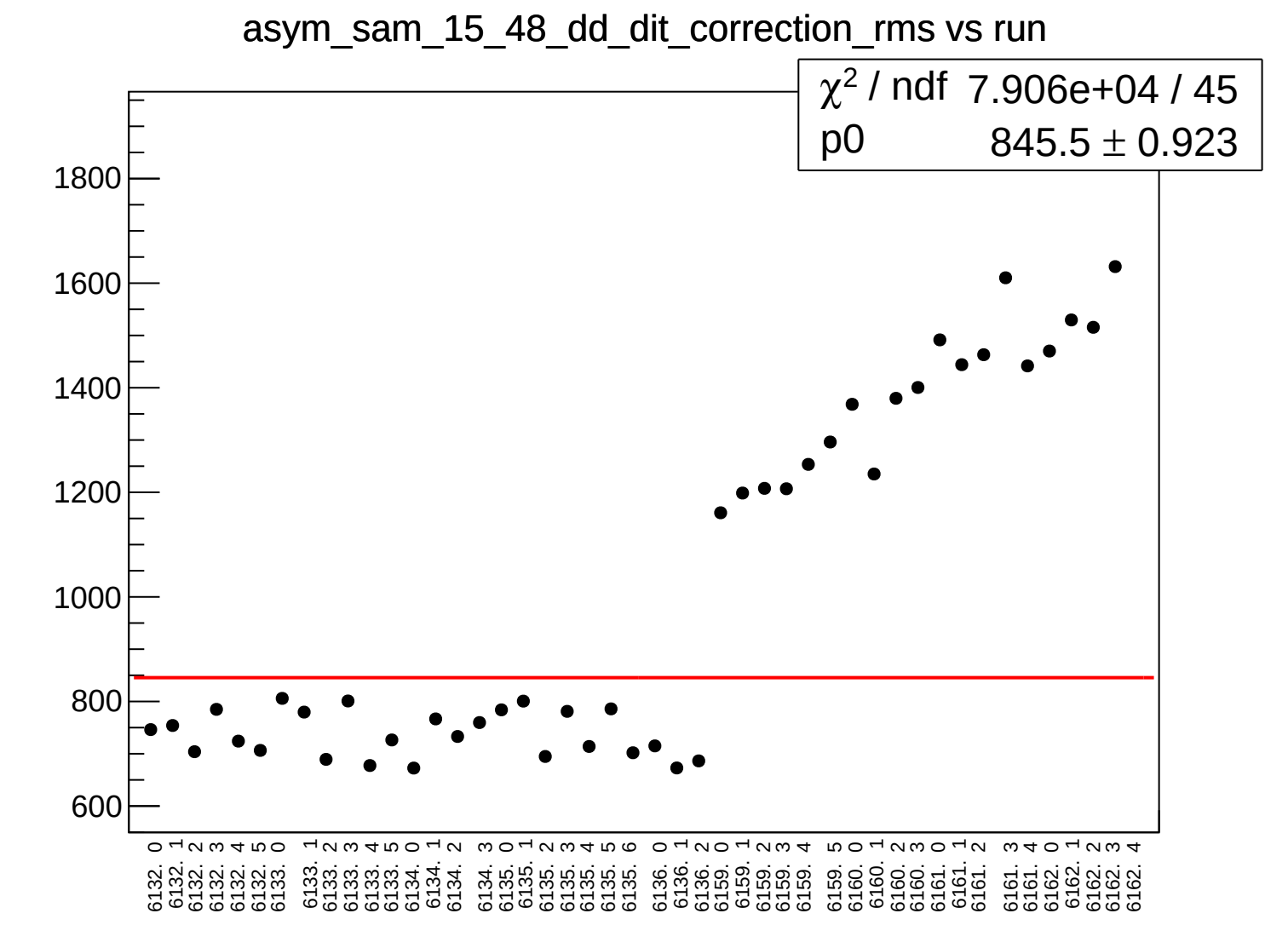
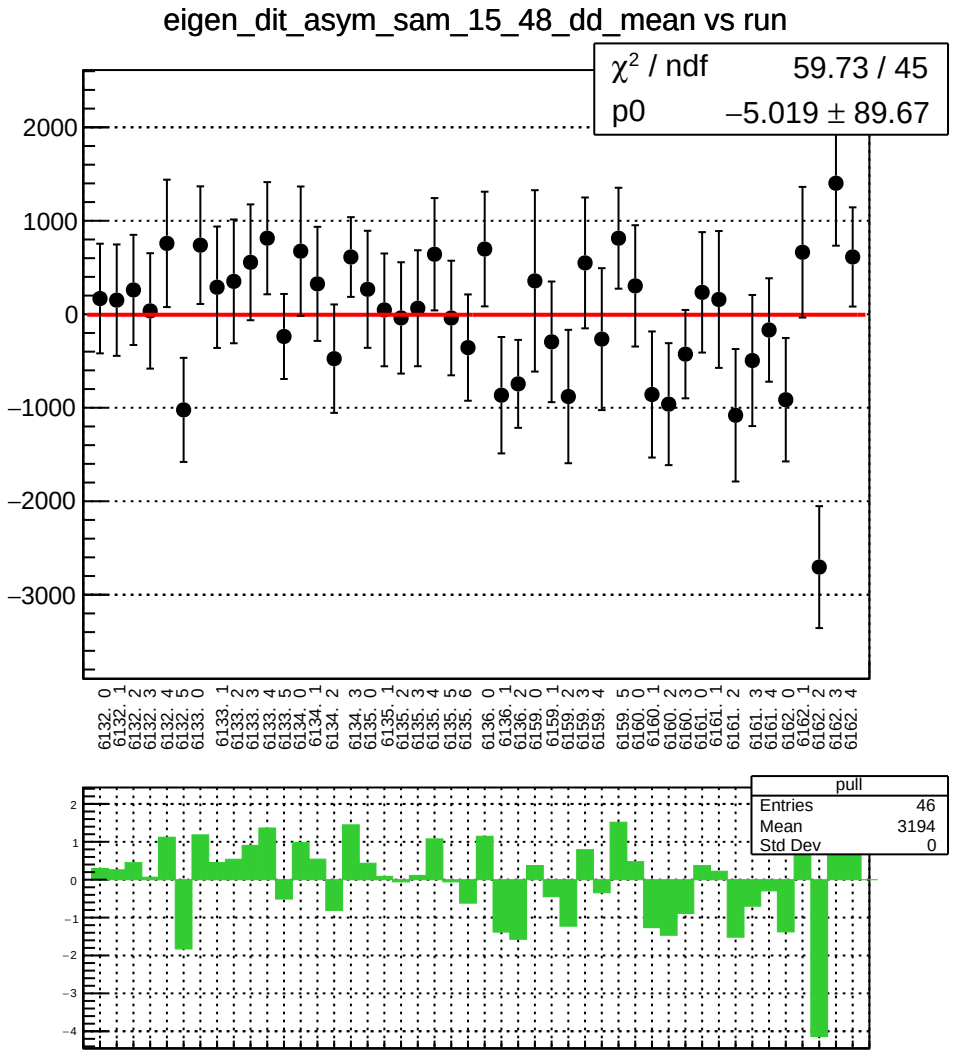
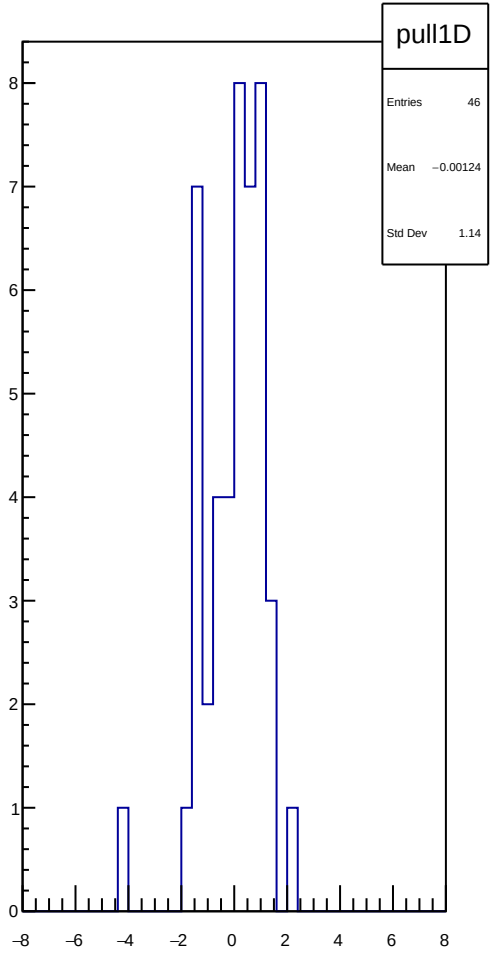
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

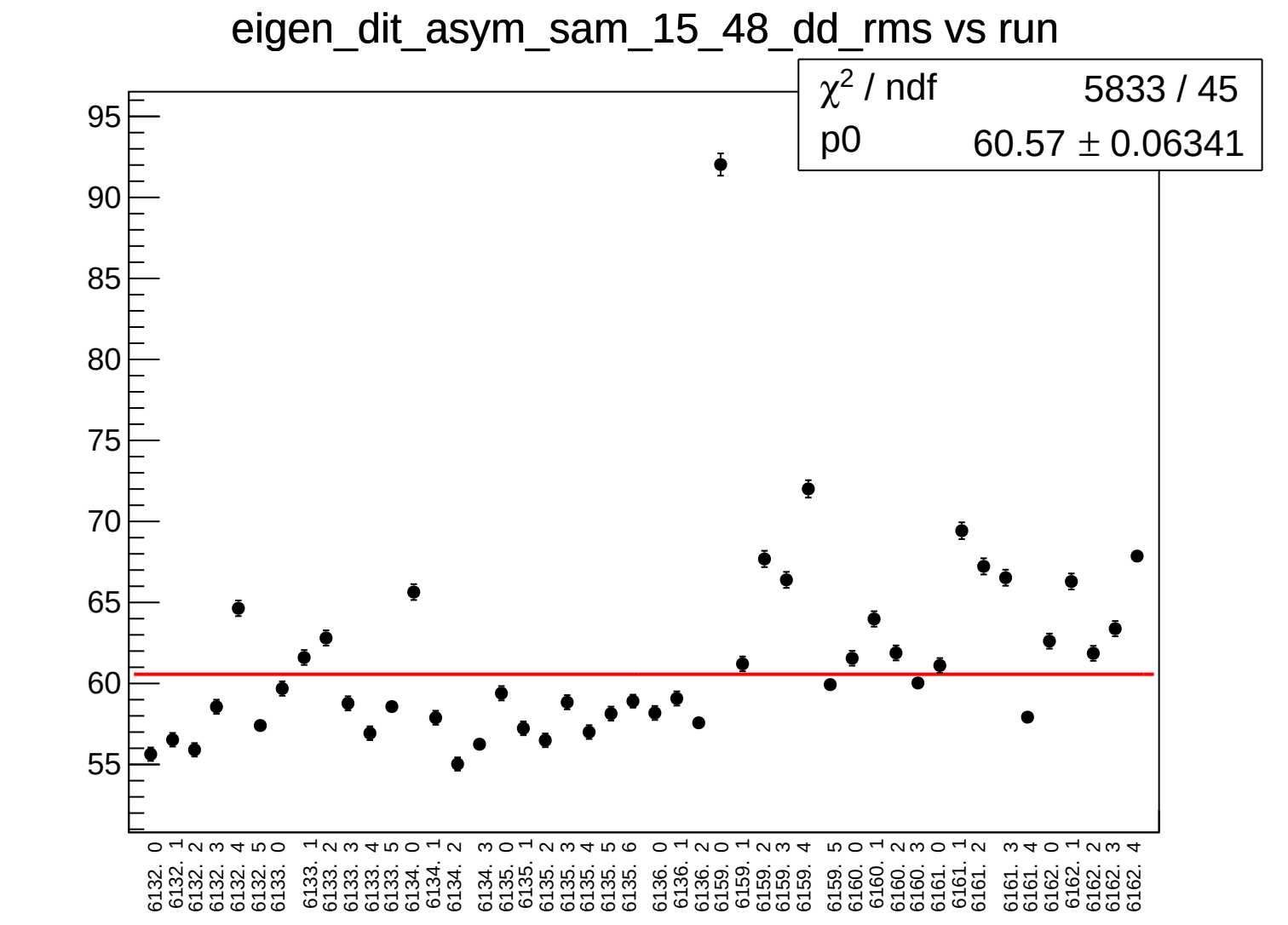

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 52.96 / 45
p0 108.3 ± 1305
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 75.11
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

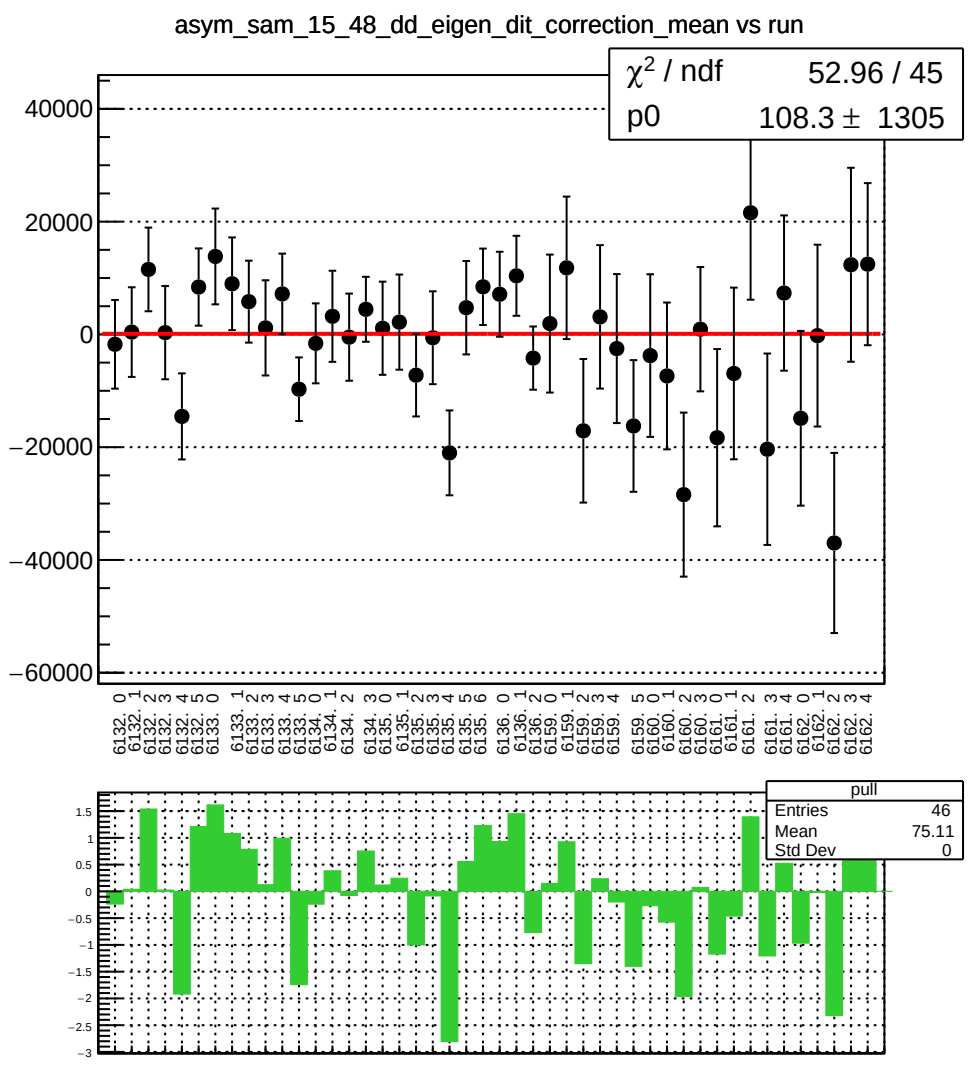

pull1D
Entries 46
Mean −0.06128
Std Dev 1.071
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

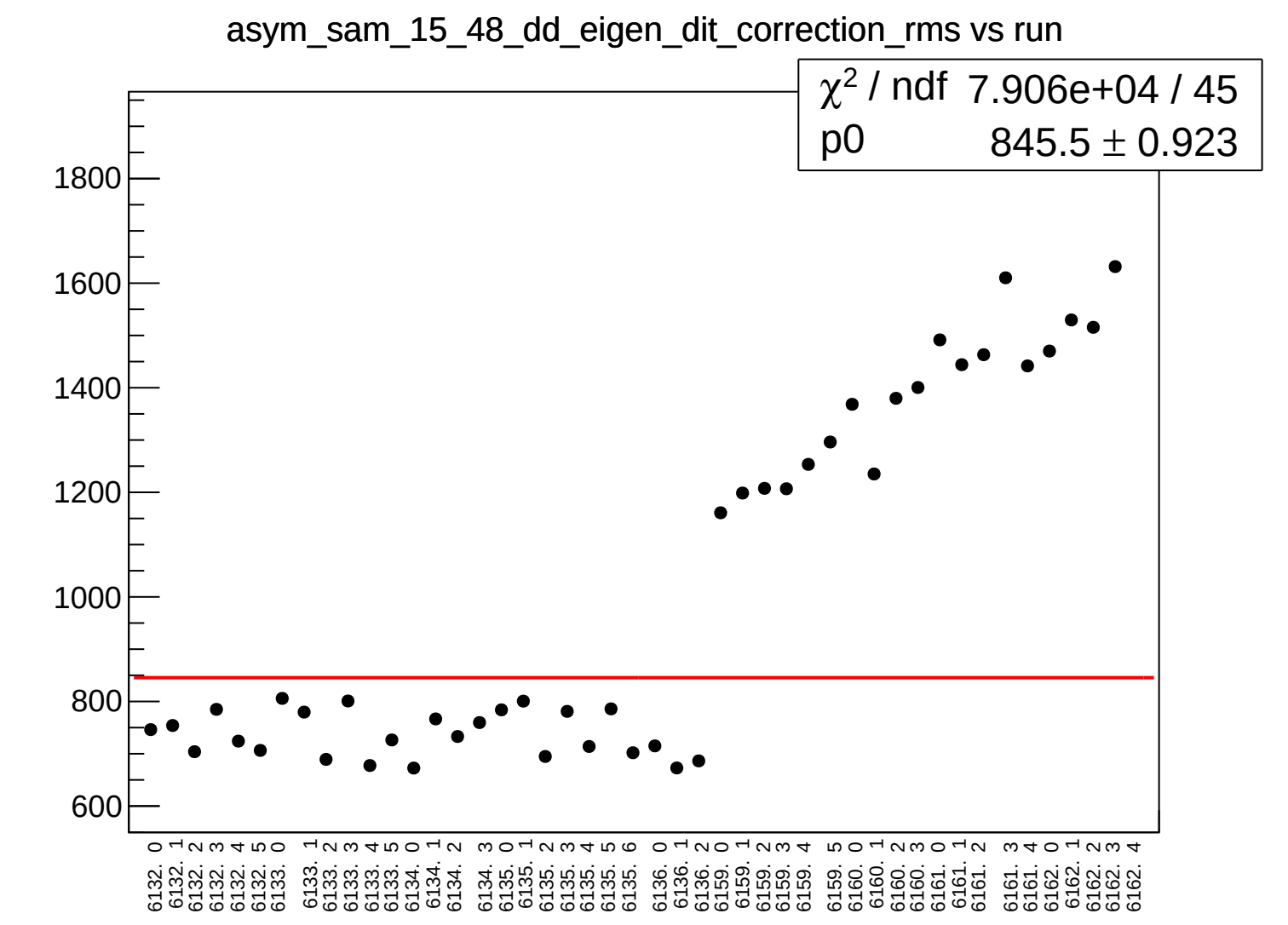

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 7.906e+04 / 45
p0 845.5 ± 0.923
1800
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

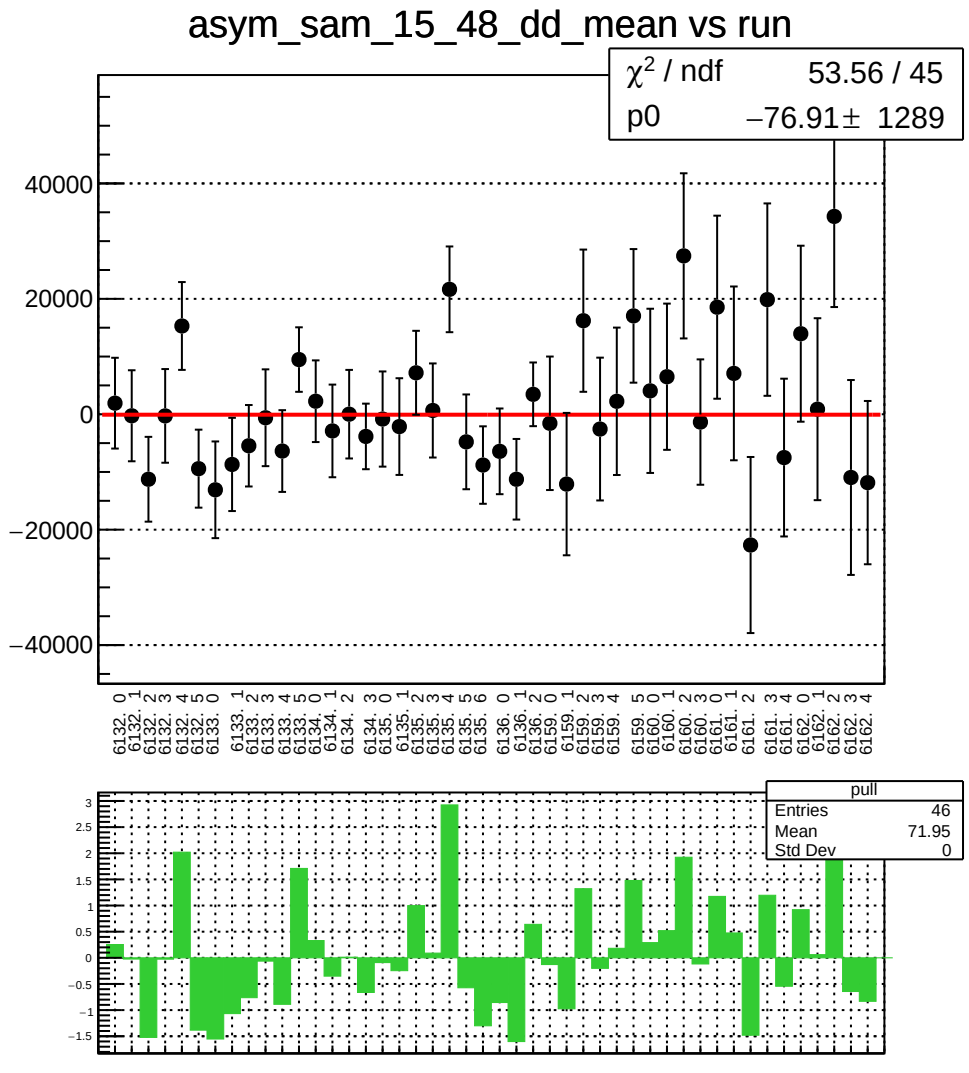

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 59.73 / 45
p0 −5.019 ± 89.67
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 3194
Std Dev 0
2
1
0
−1
−2
−3
−4

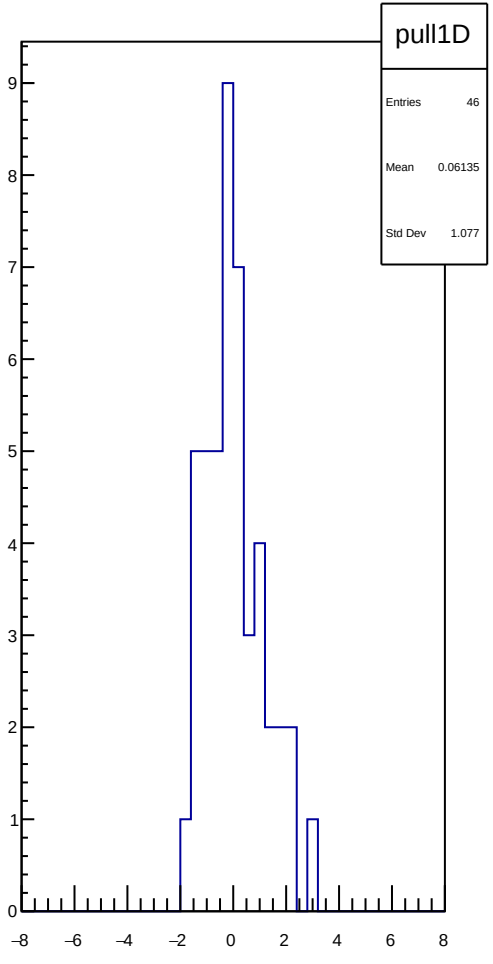

pull1D
Entries 46
Mean −0.00124
Std Dev 1.14
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

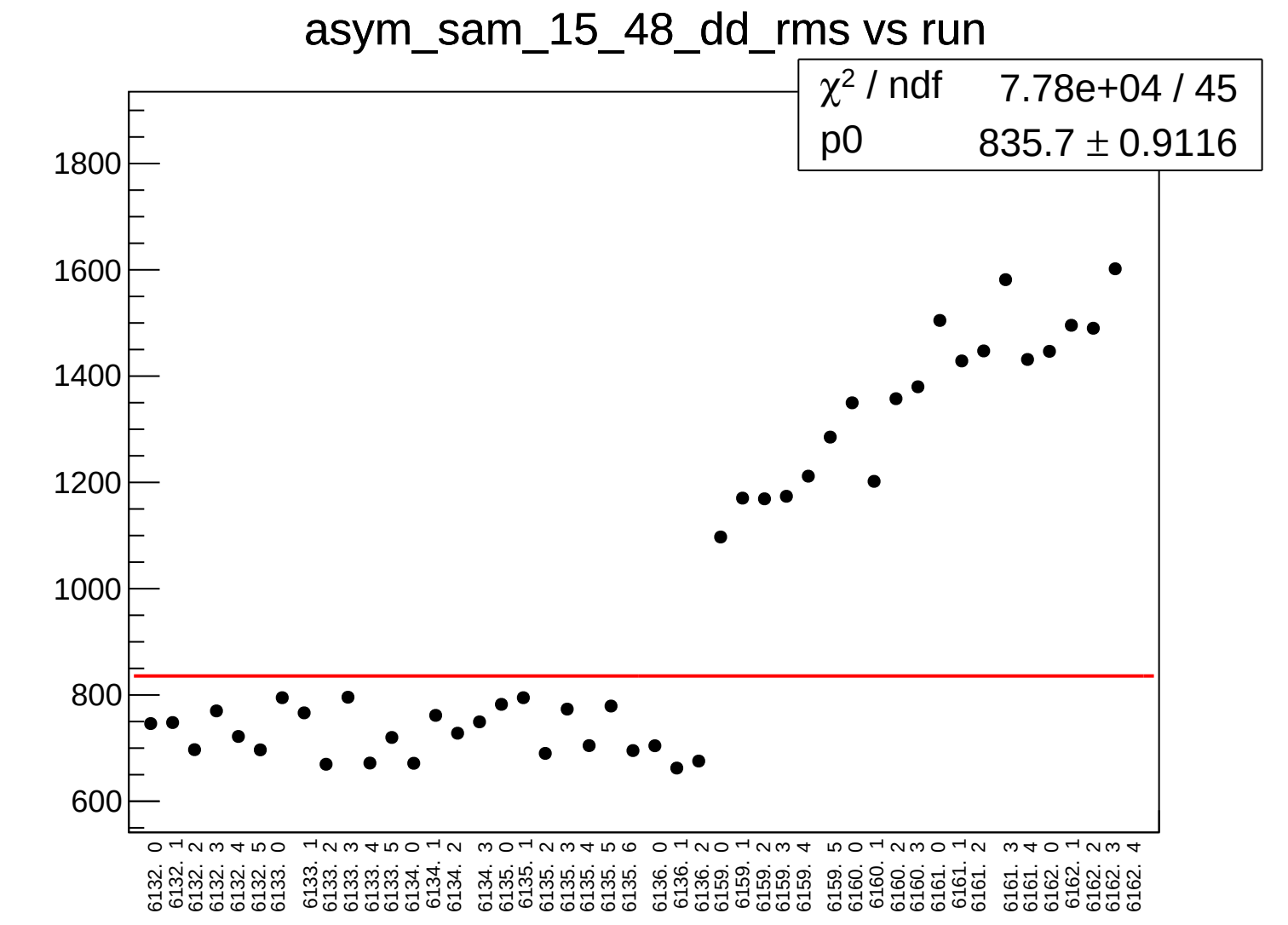

eigen_dit_asym_sam_15_48_dd_rms vs run
χ2 / ndf 5833 / 45
p0 60.57 ± 0.06341
95
90
85
80
75
70
65
60
55
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 52.96 / 45
p0 108.3 ± 1305
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 75.11
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 46
Mean −0.06128
Std Dev 1.071
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 7.906e+04 / 45
p0 845.5 ± 0.923
1800
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_15_48_dd_mean vs run
χ² / ndf 53.56 / 45
p0 −76.91± 1289
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 71.95
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 46
Mean 0.06135
Std Dev 1.077
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_48_dd_rms vs run
χ² / ndf 7.78e+04 / 45
p0 835.7 ± 0.9116
1800
1600
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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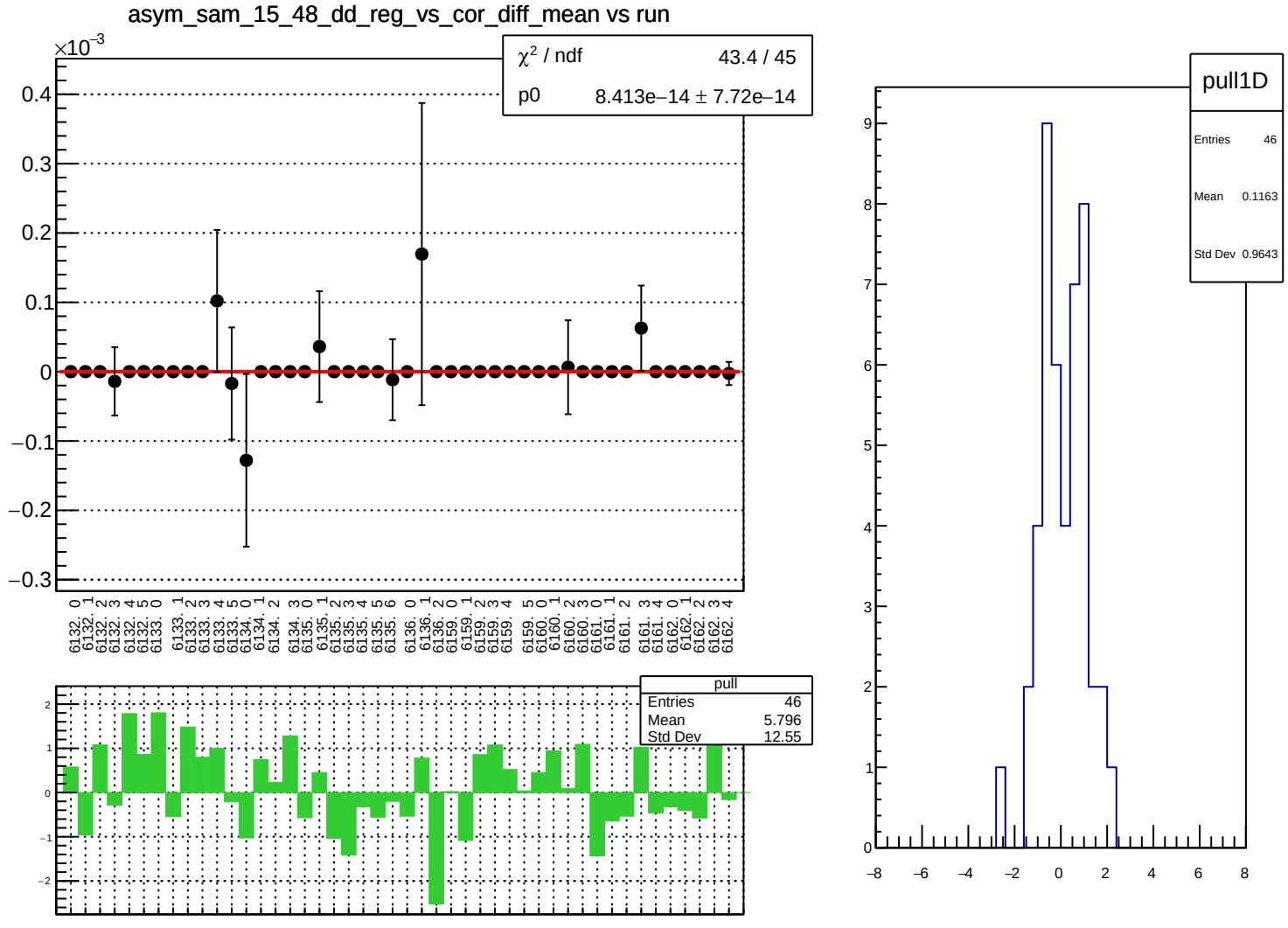
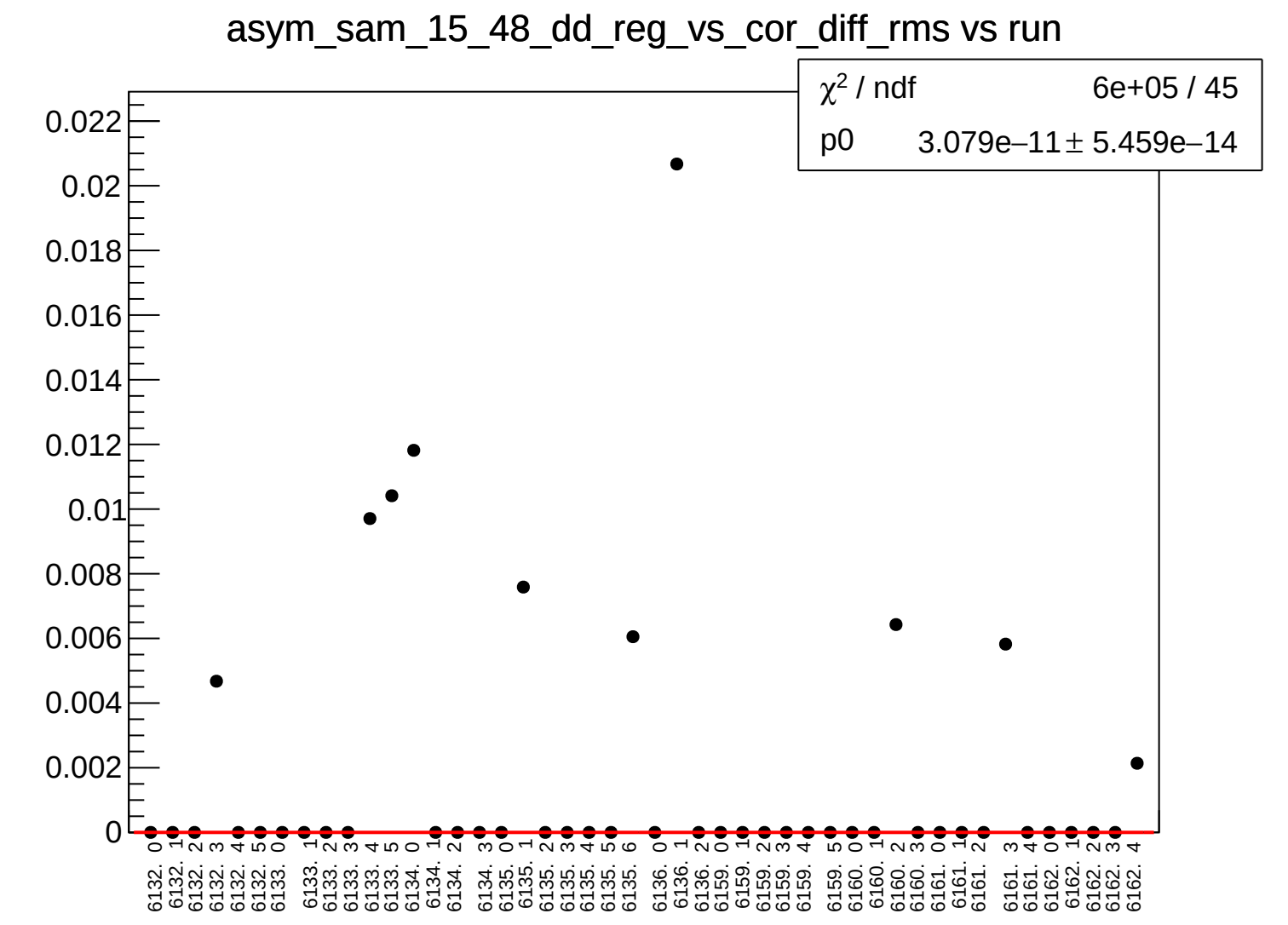
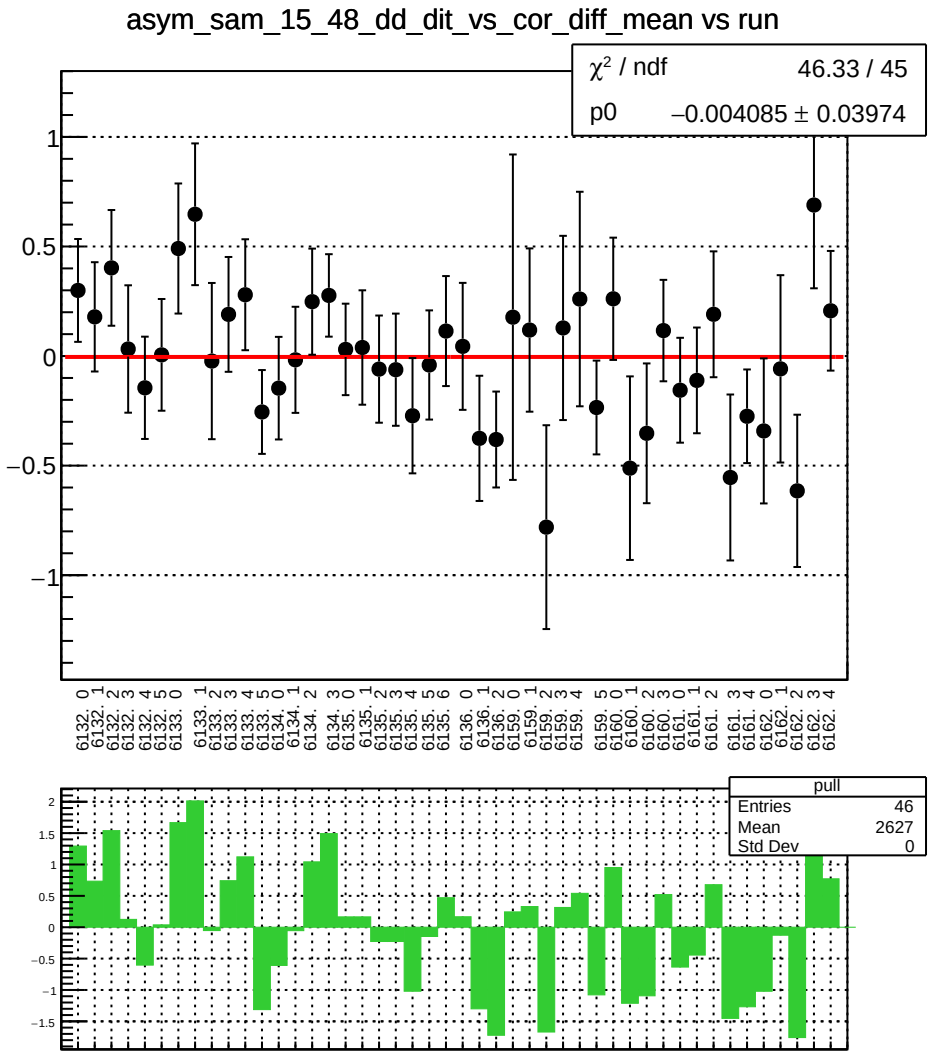
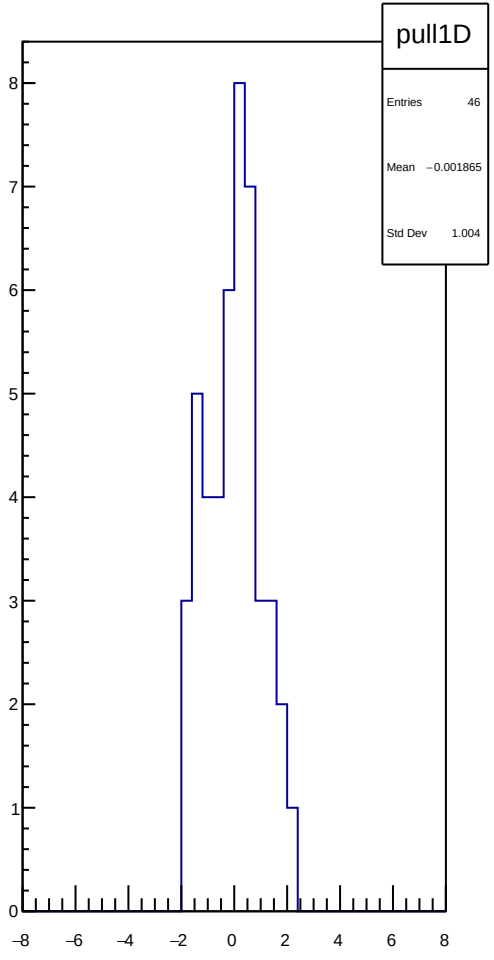
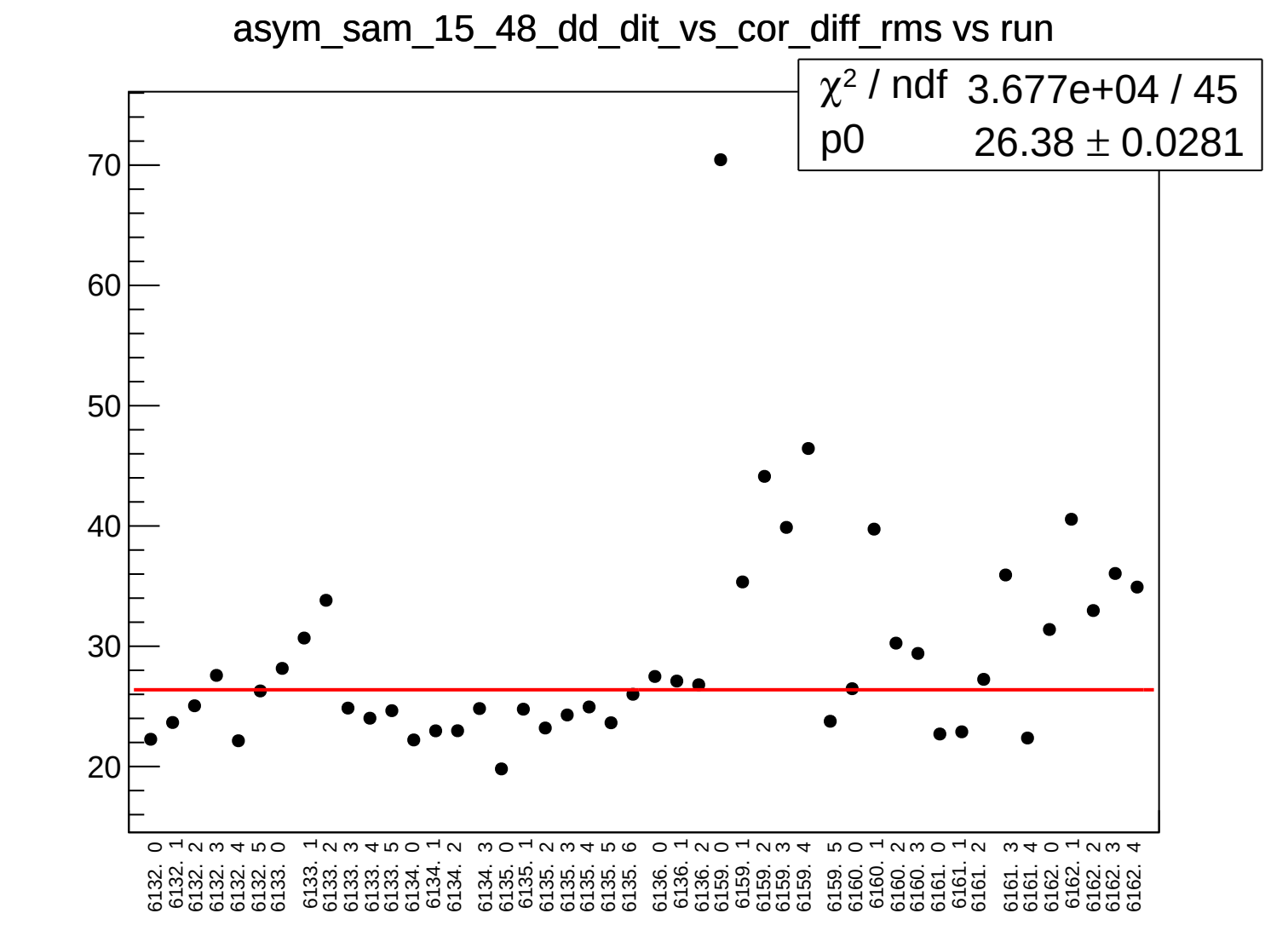
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 43.4 / 45
p0 8.413e−14 ± 7.72e−14
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 5.796
Std Dev 12.55
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.1163
Std Dev 0.9643
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6e+05 / 45
p0 3.079e−11 ± 5.459e−14
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 46.33 / 45
p0 −0.004085 ± 0.03974
pull
Entries 46
Mean 2627
Std Dev 0


pull1D
Entries 46
Mean −0.001865
Std Dev 1.004


asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.677e+04 / 45
p0 26.38 ± 0.0281
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
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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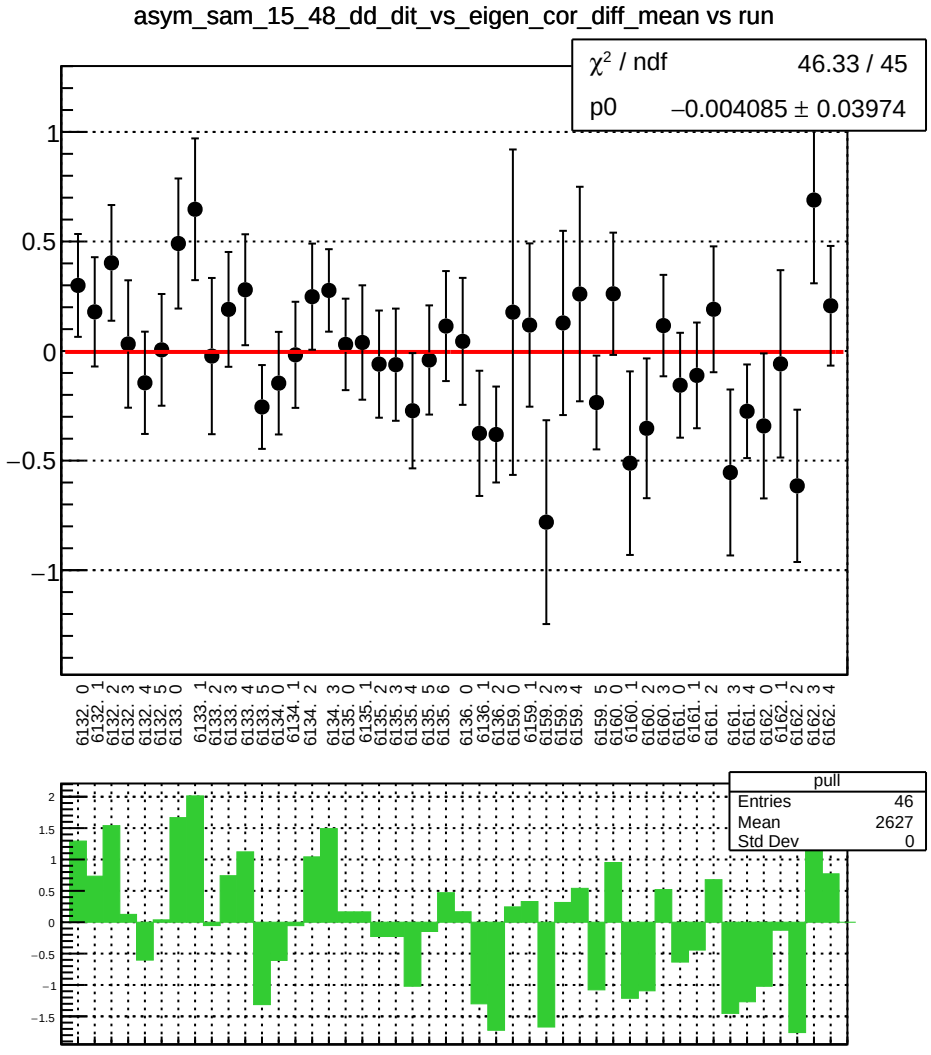
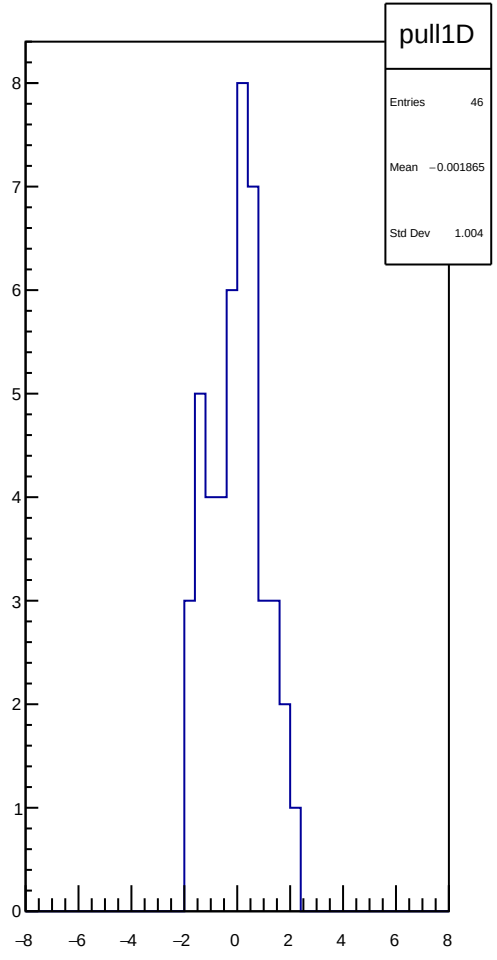
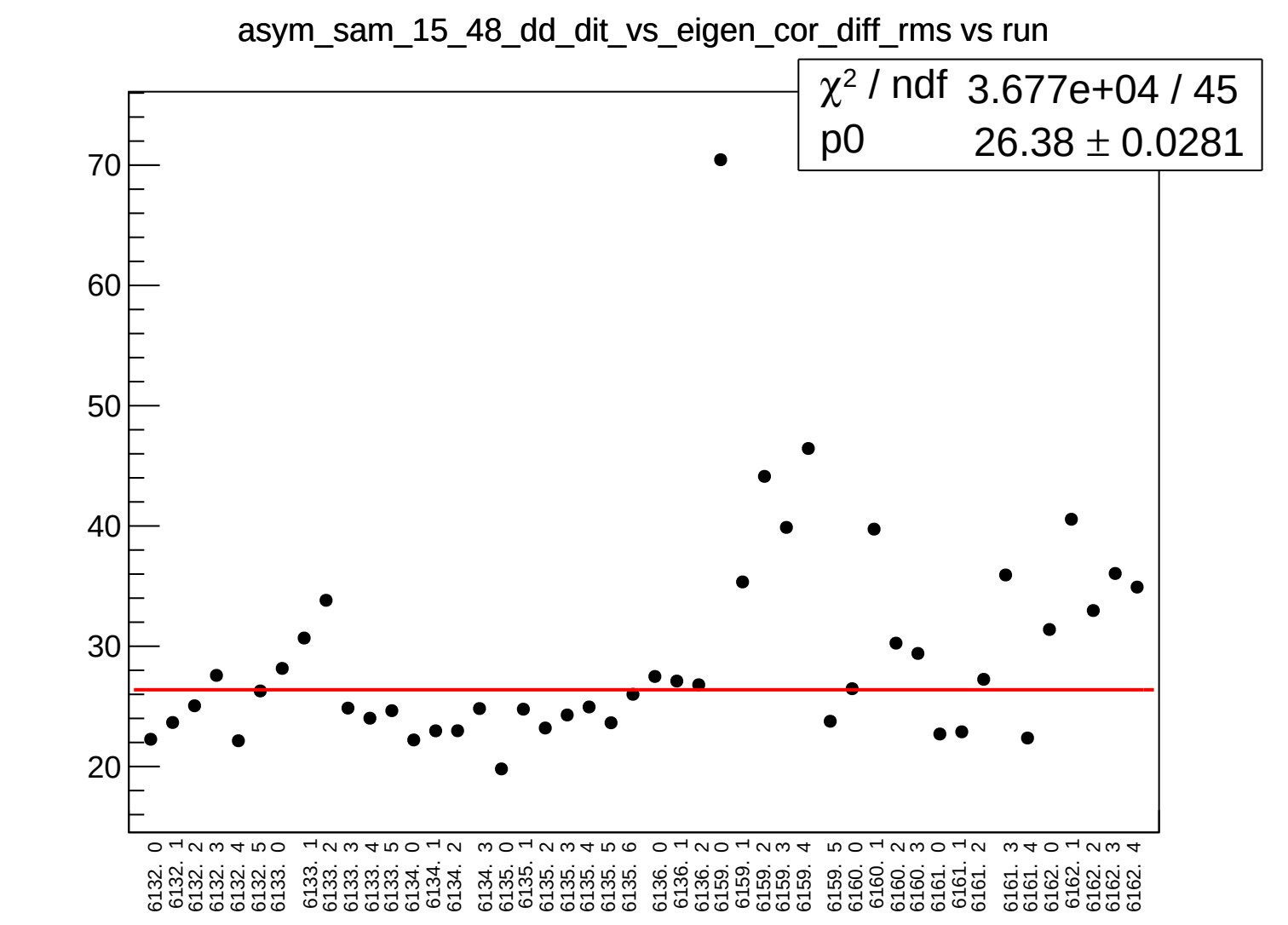
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.33 / 45
p0 −0.004085 ± 0.03974
pull
Entries 46
Mean 2627
Std Dev 0


pull1D
Entries 46
Mean −0.001865
Std Dev 1.004


asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.677e+04 / 45
p0 26.38 ± 0.0281
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6134. 3
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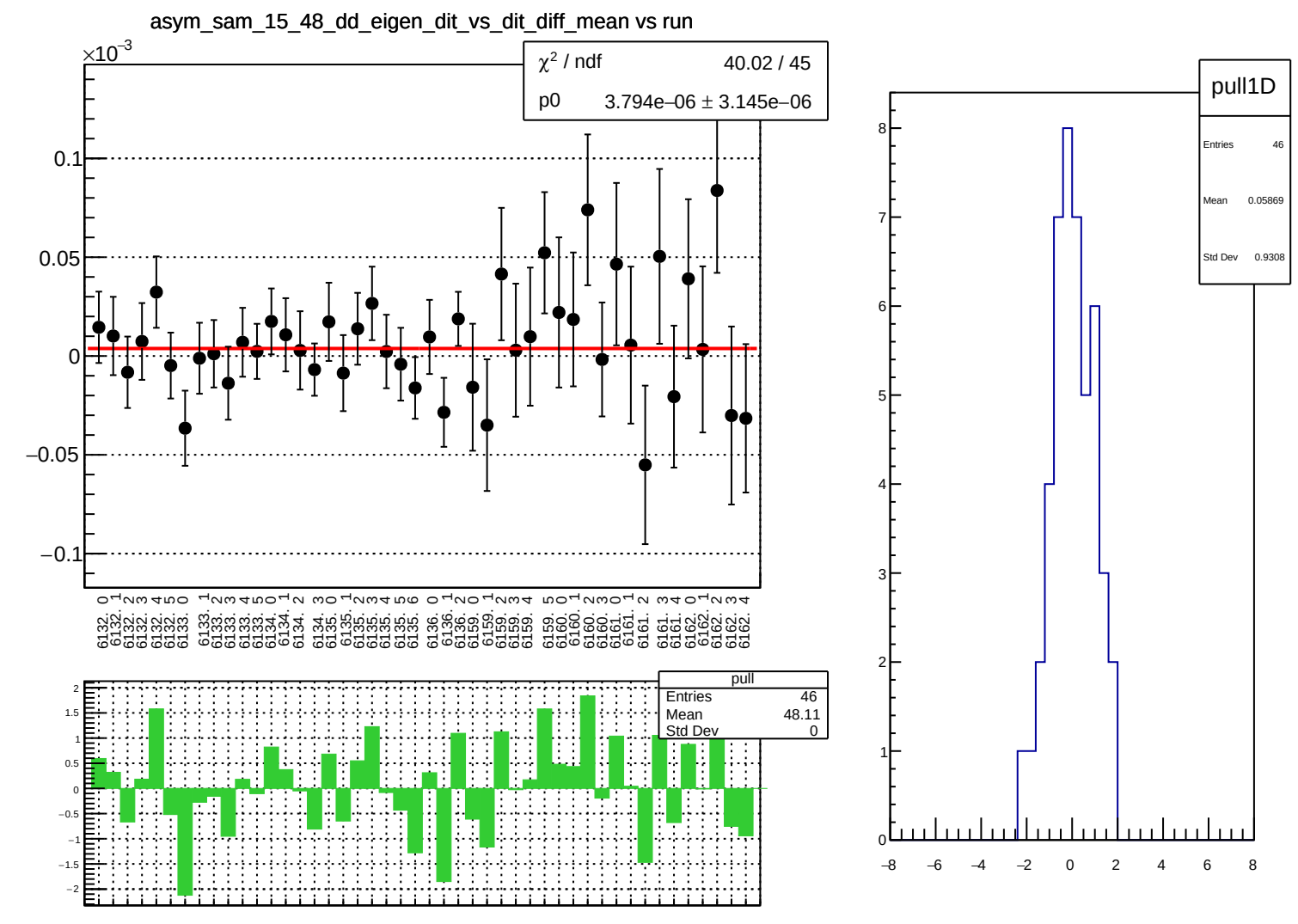
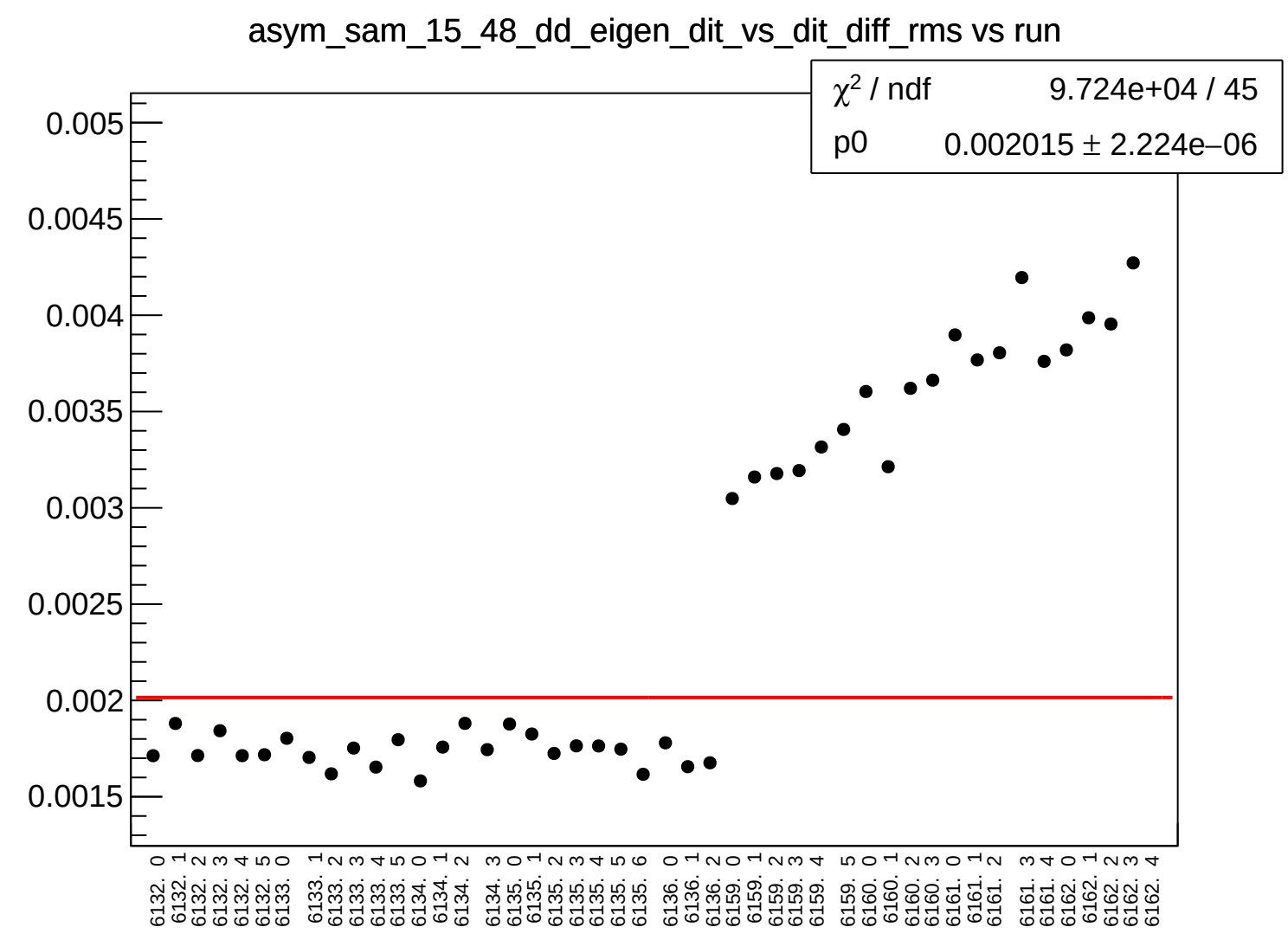
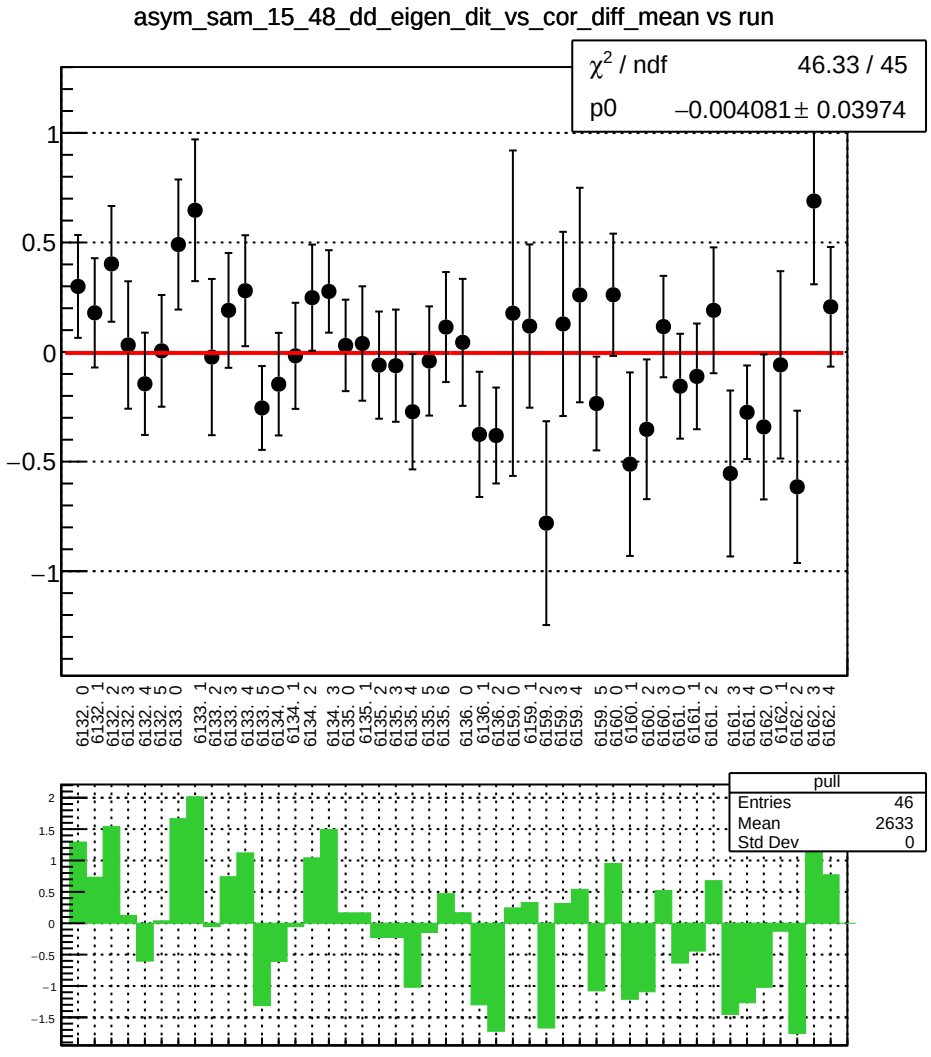
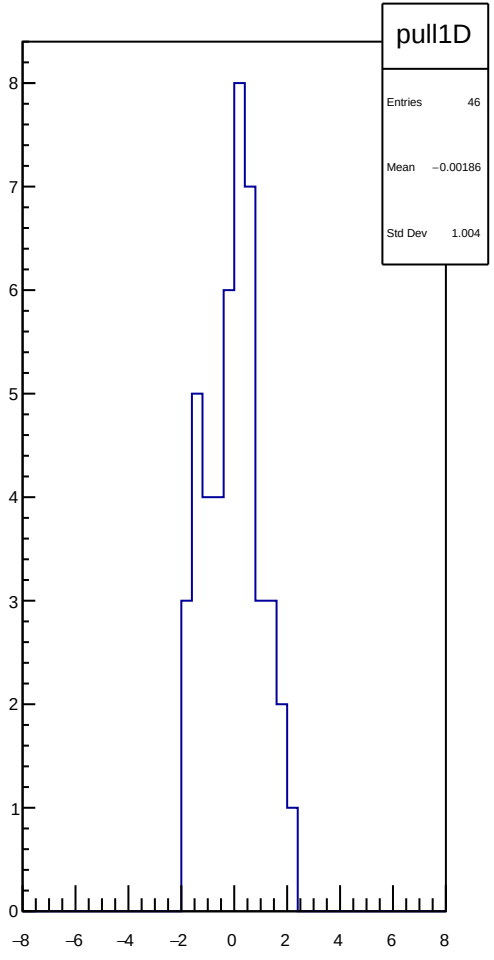
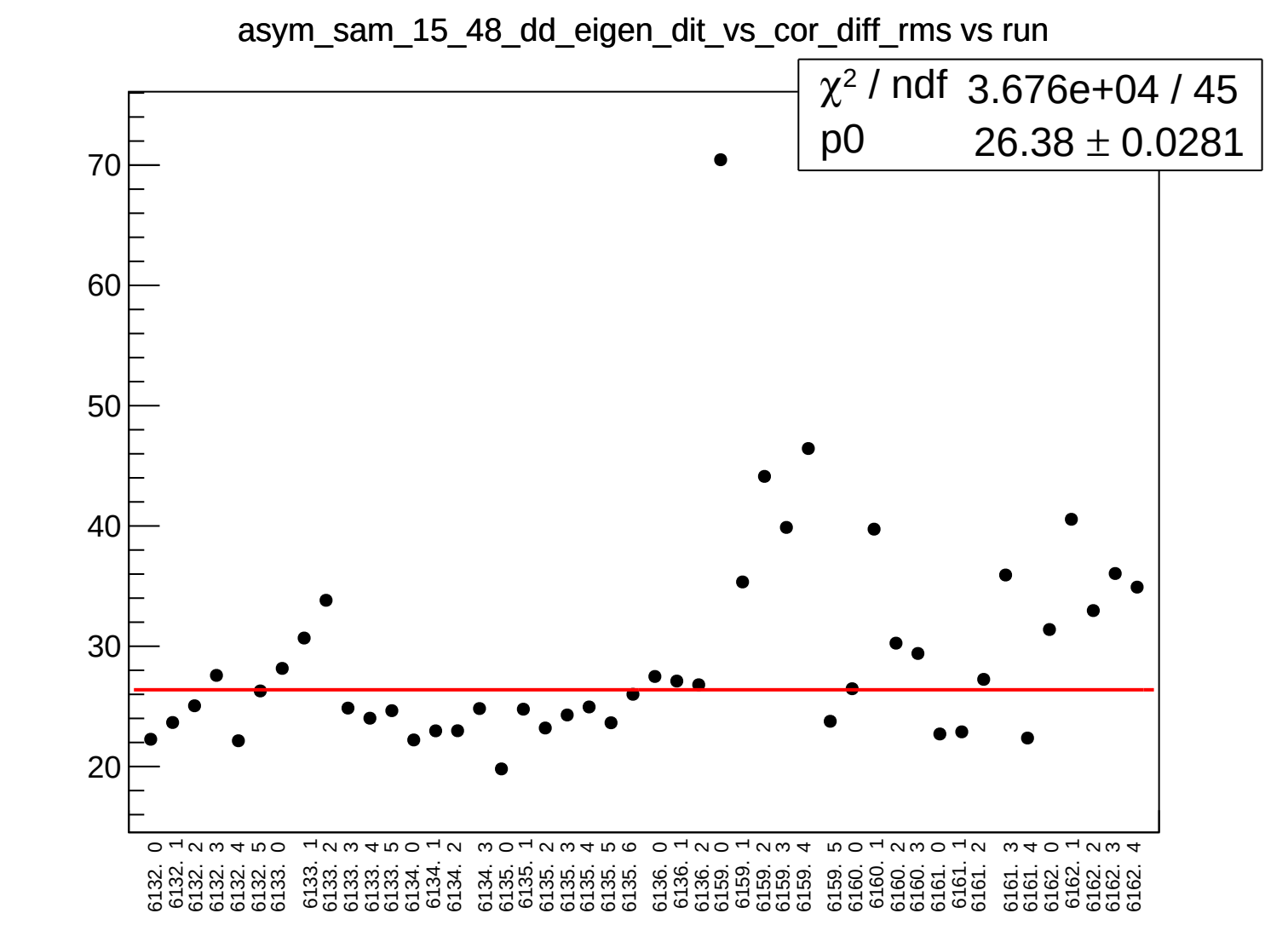
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

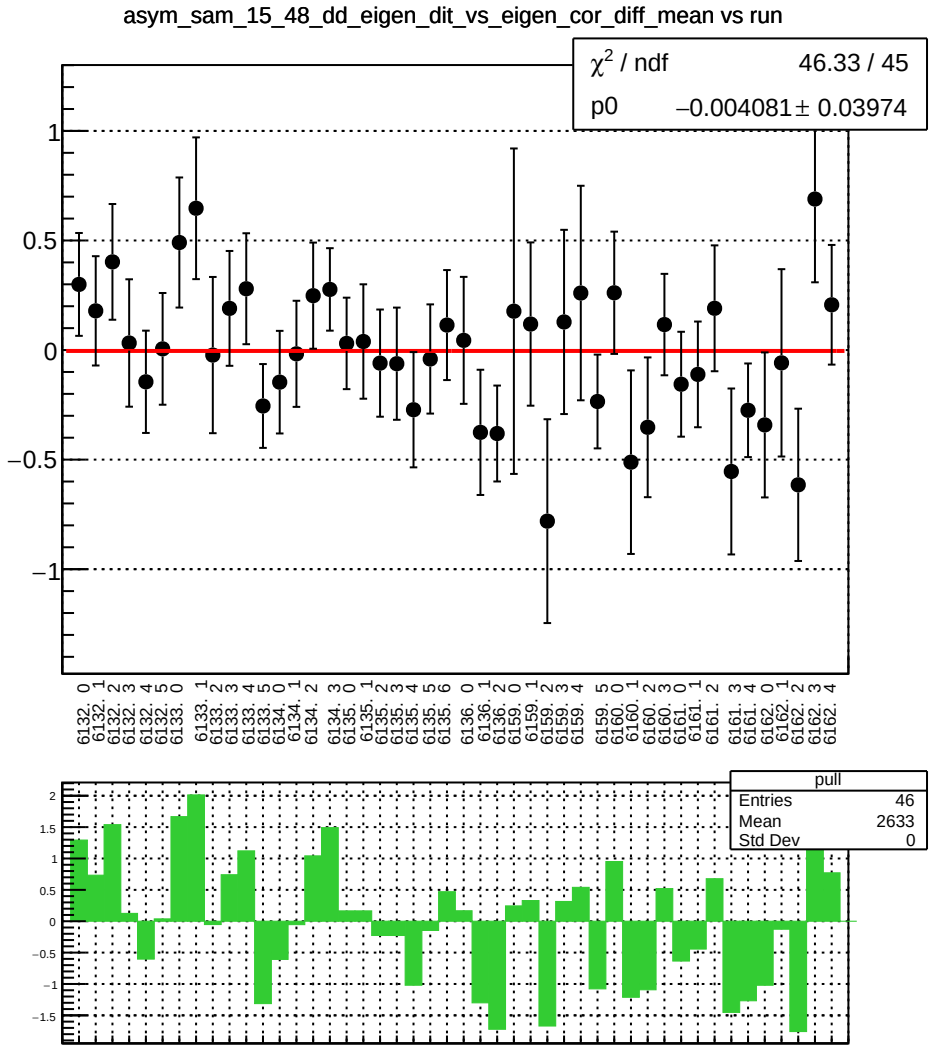

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.02 / 45
p0 3.794e−06 ± 3.145e−06
0.1
0.05
0
−0.05
−0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 48.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.05869
Std Dev 0.9308
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

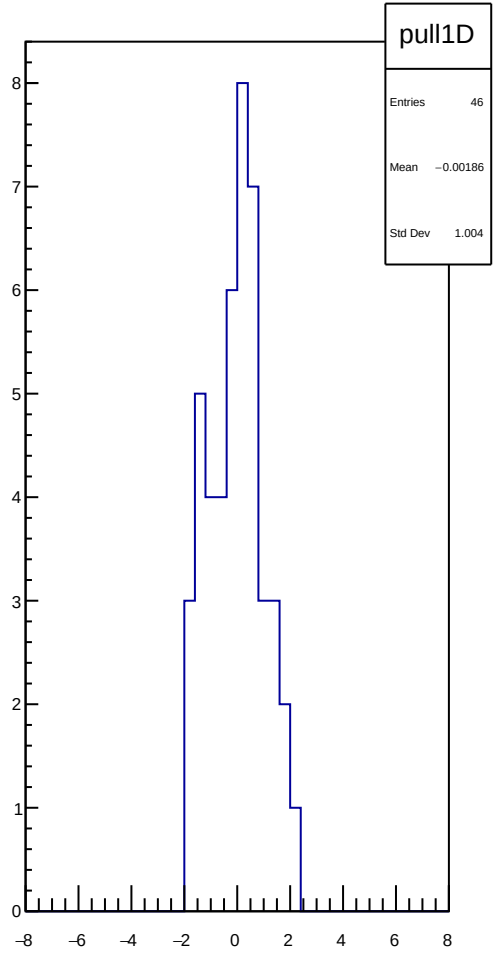

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.724e+04 / 45
p0 0.002015 ± 2.224e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

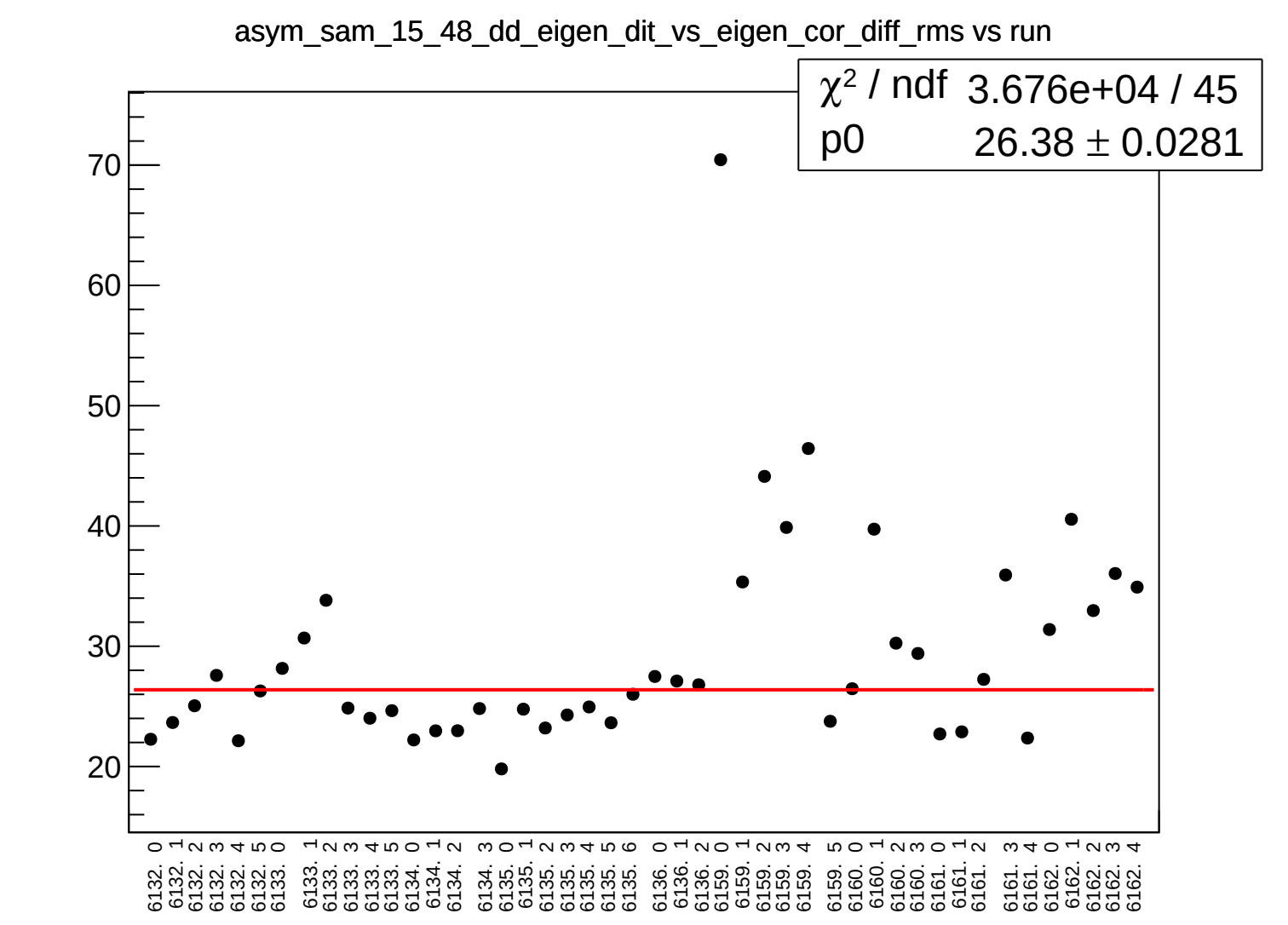

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.33 / 45
p0 −0.004081 ± 0.03974
pull
Entries 46
Mean 2633
Std Dev 0

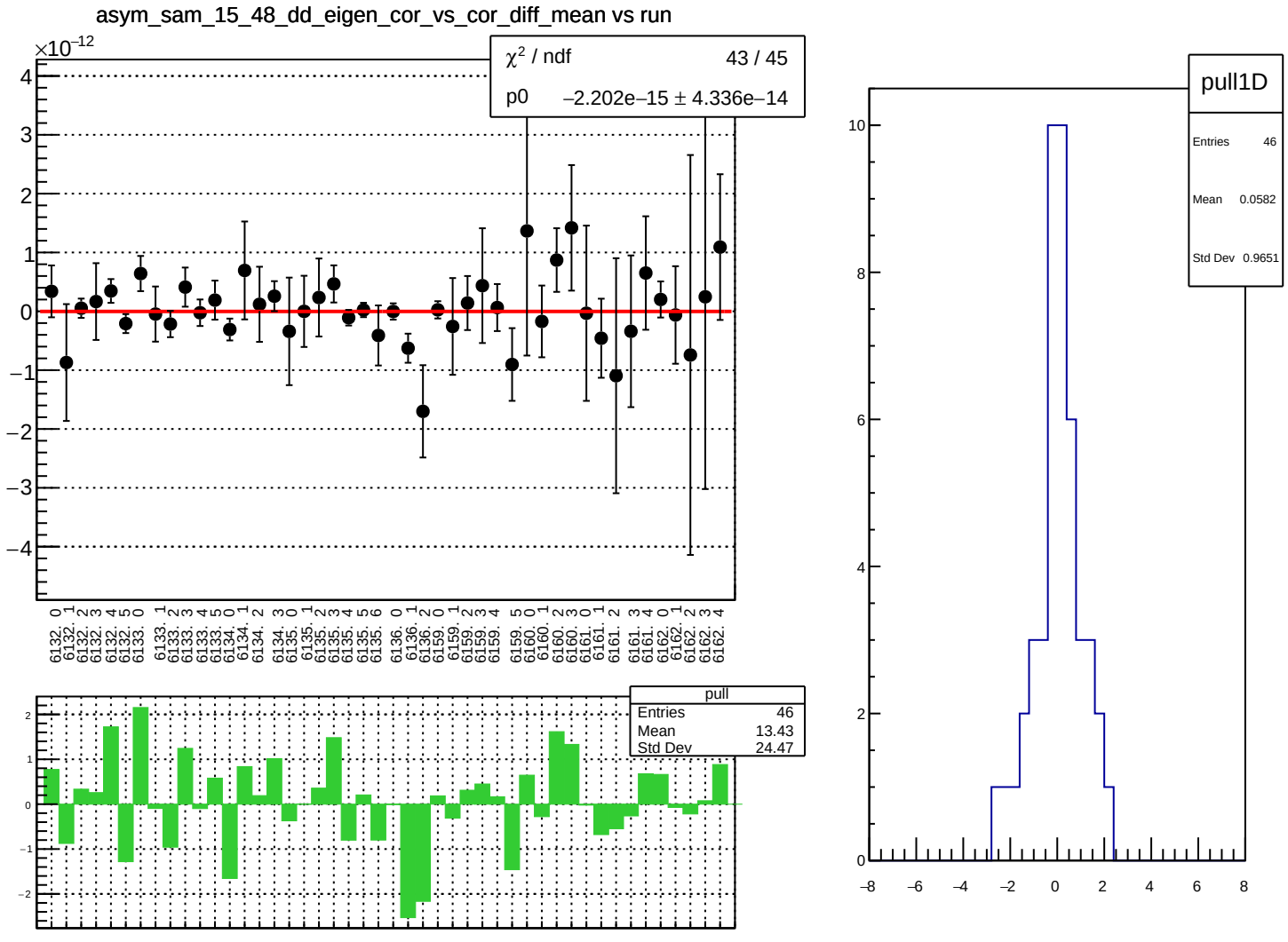

pull1D
Entries 46
Mean −0.00186
Std Dev 1.004

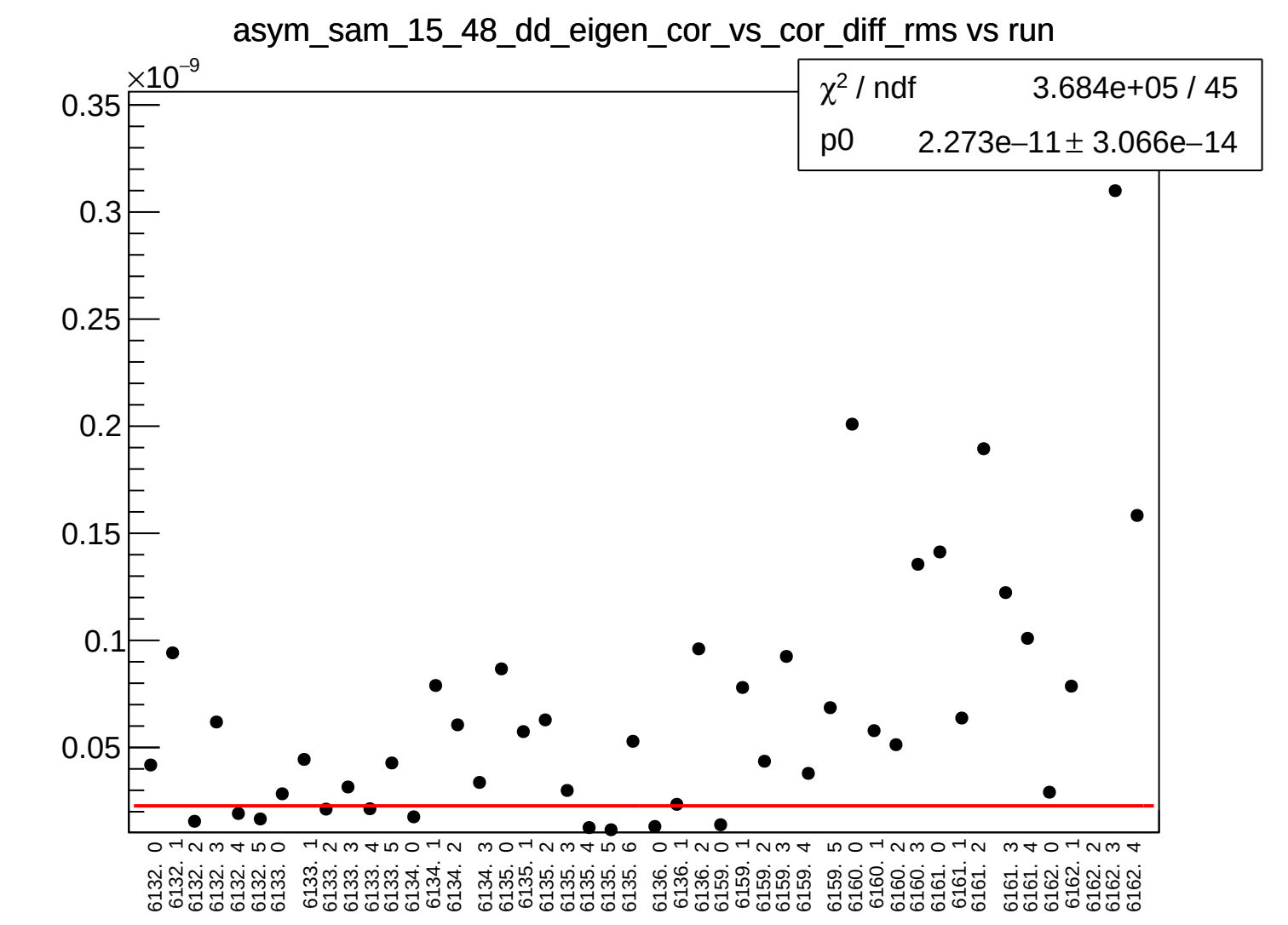

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.676e+04 / 45
p0 26.38 ± 0.0281
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

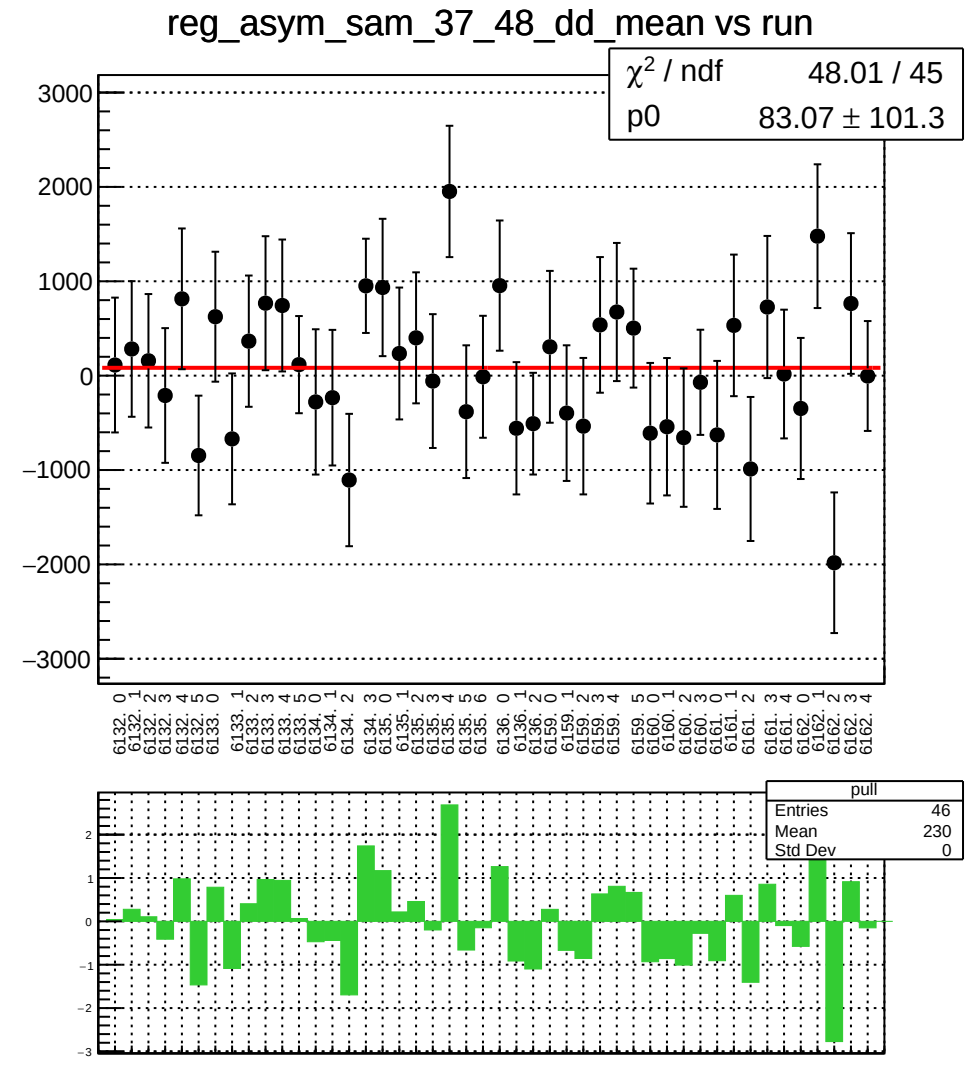

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.33 / 45
p0 −0.004081 ± 0.03974
pull
Entries 46
Mean 2633
Std Dev 0

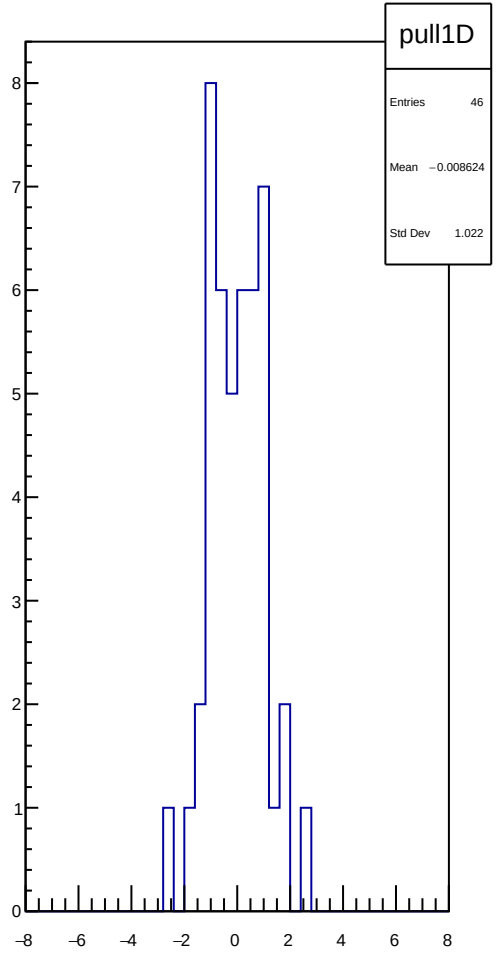

pull1D
Entries 46
Mean −0.00186
Std Dev 1.004

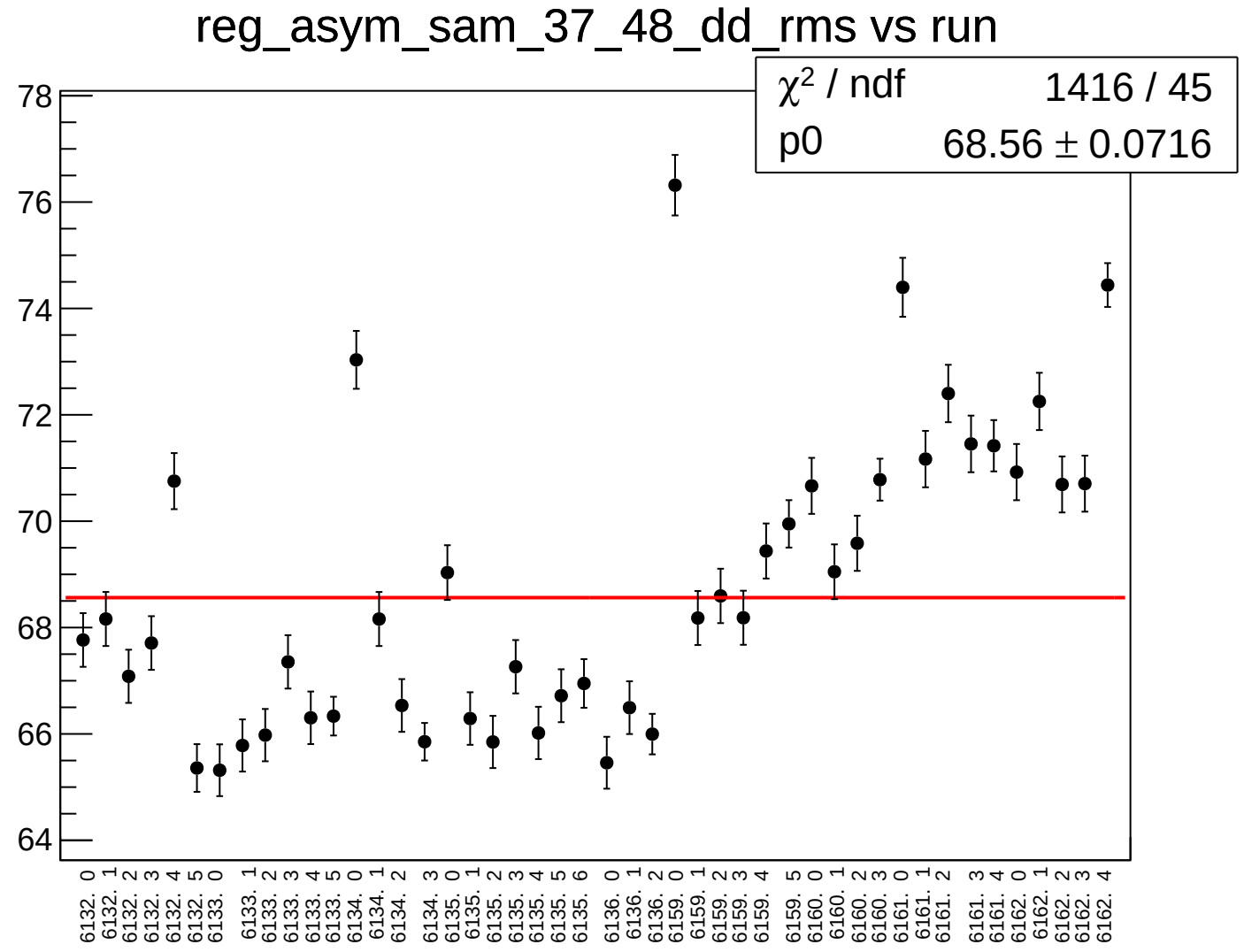

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.676e+04 / 45
p0 26.38 ± 0.0281
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

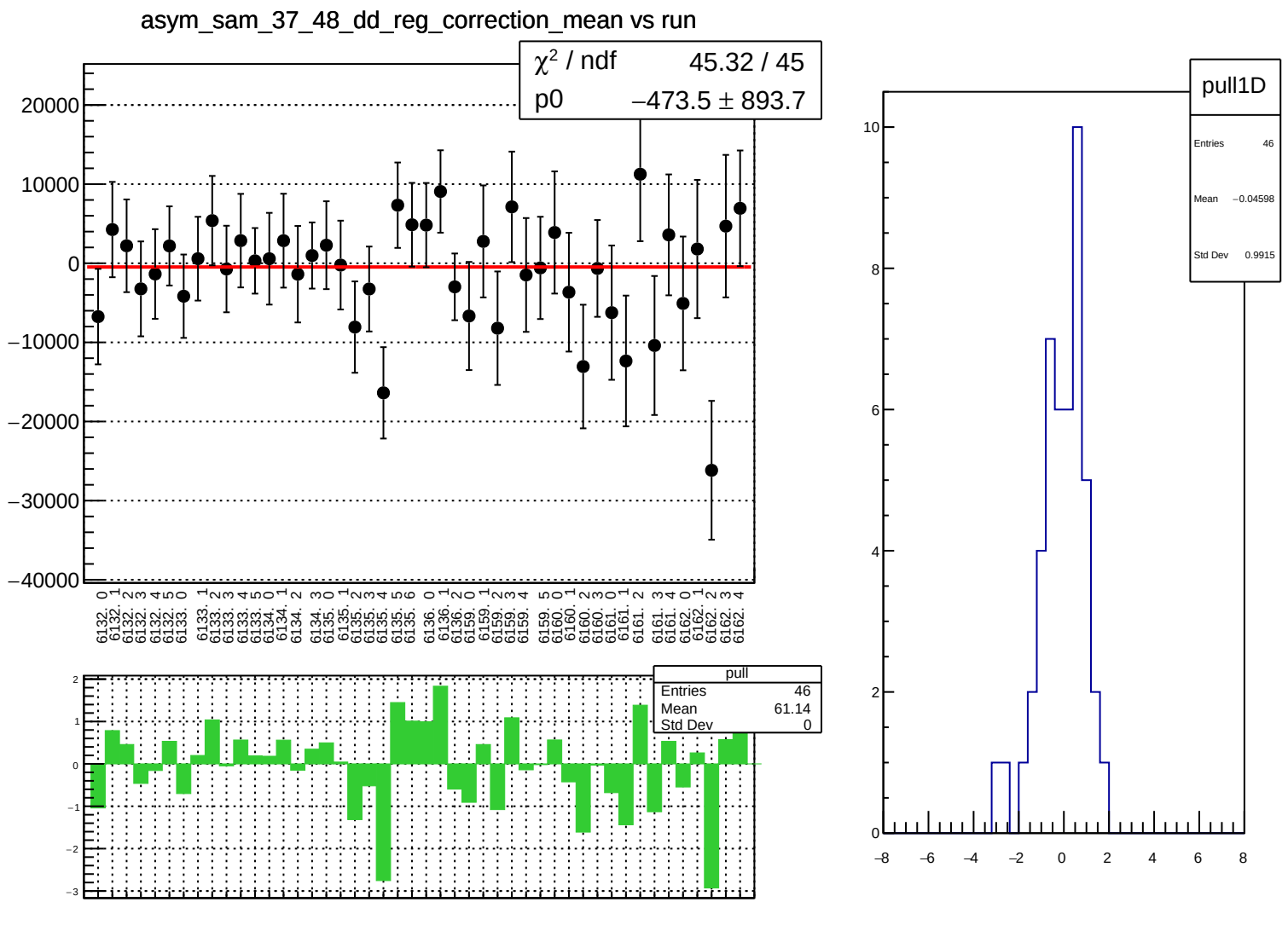

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 43 / 45
p0 −2.202e−15 ± 4.336e−14
pull
Entries 46
Mean 13.43
Std Dev 24.47
pull1D
Entries 46
Mean 0.0582
Std Dev 0.9651

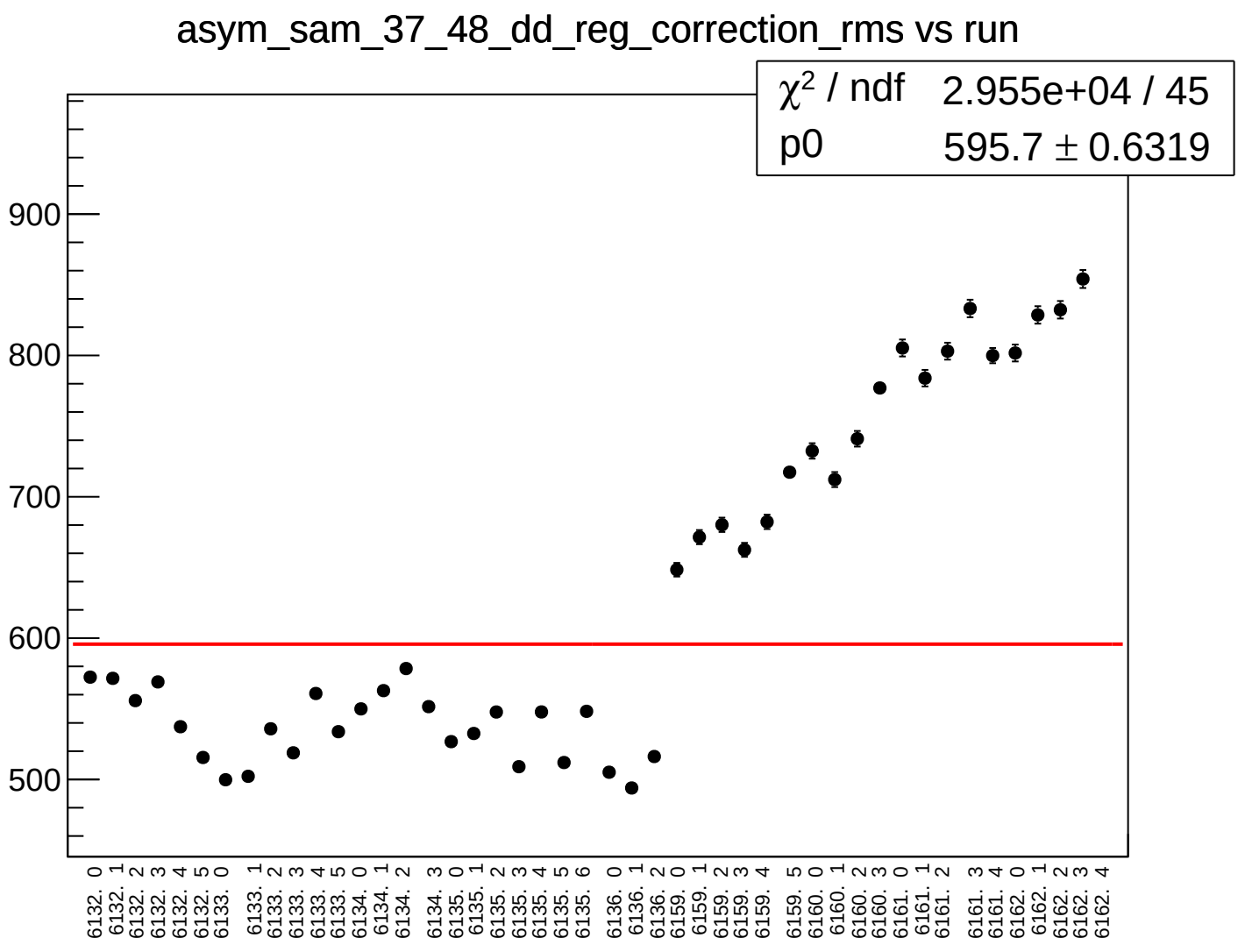

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.684e+05 / 45
p0 2.273e−11 ± 3.066e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 48.01 / 45
p0 83.07 ± 101.3
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 230
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean −0.008624
Std Dev 1.022
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 1416 / 45
p0 68.56 ± 0.0716
78
76
74
72
70
68
66
64
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 45.32 / 45
p0 −473.5 ± 893.7
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 61.14
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.04598
Std Dev 0.9915
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 2.955e+04 / 45
p0 595.7 ± 0.6319
900
800
700
600
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
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6159. 1
6159. 2
6159. 3
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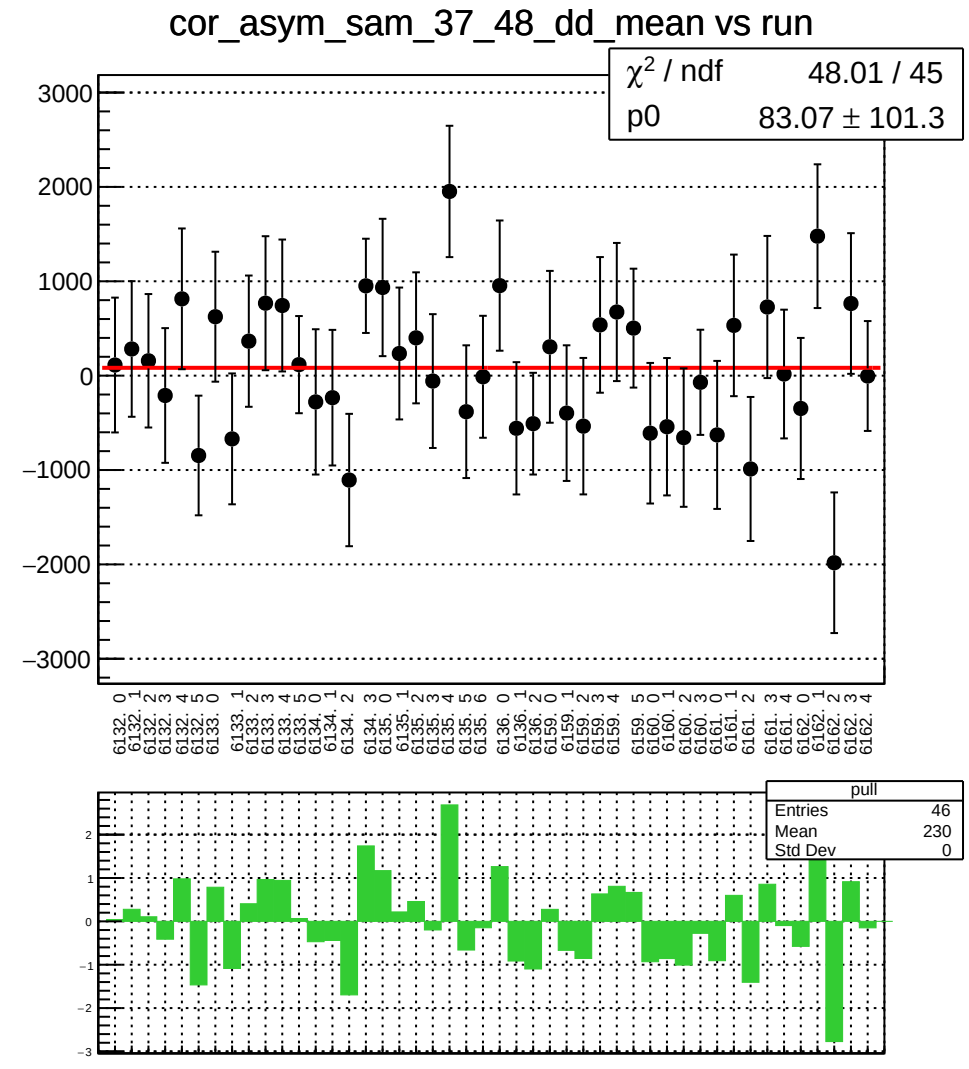
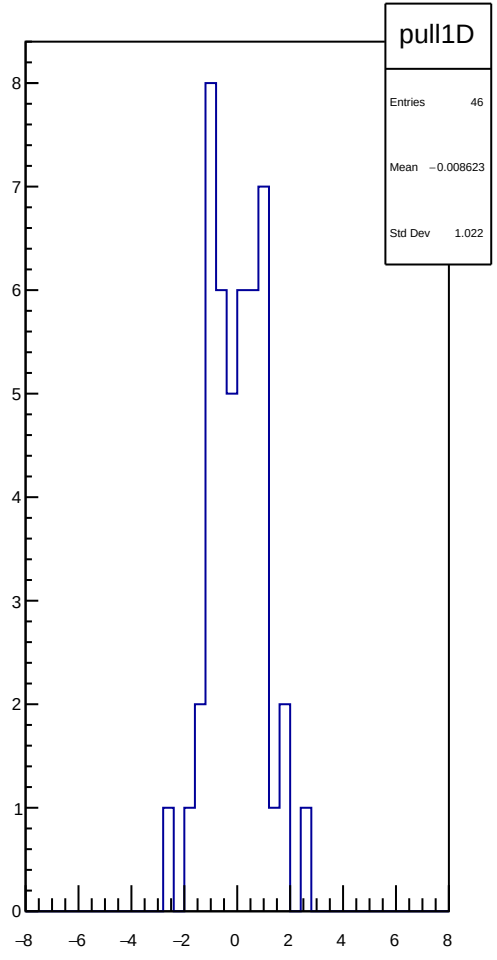
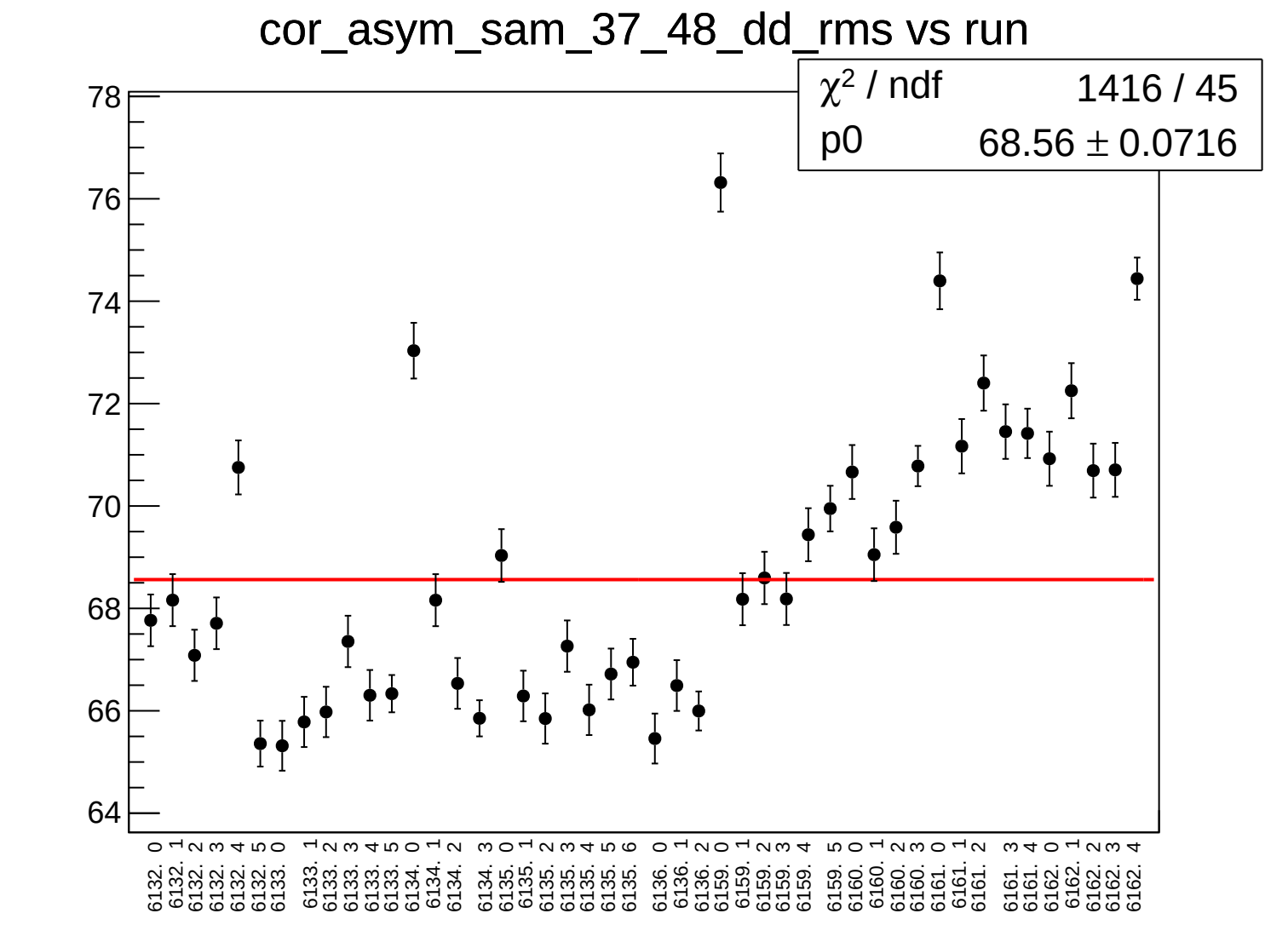
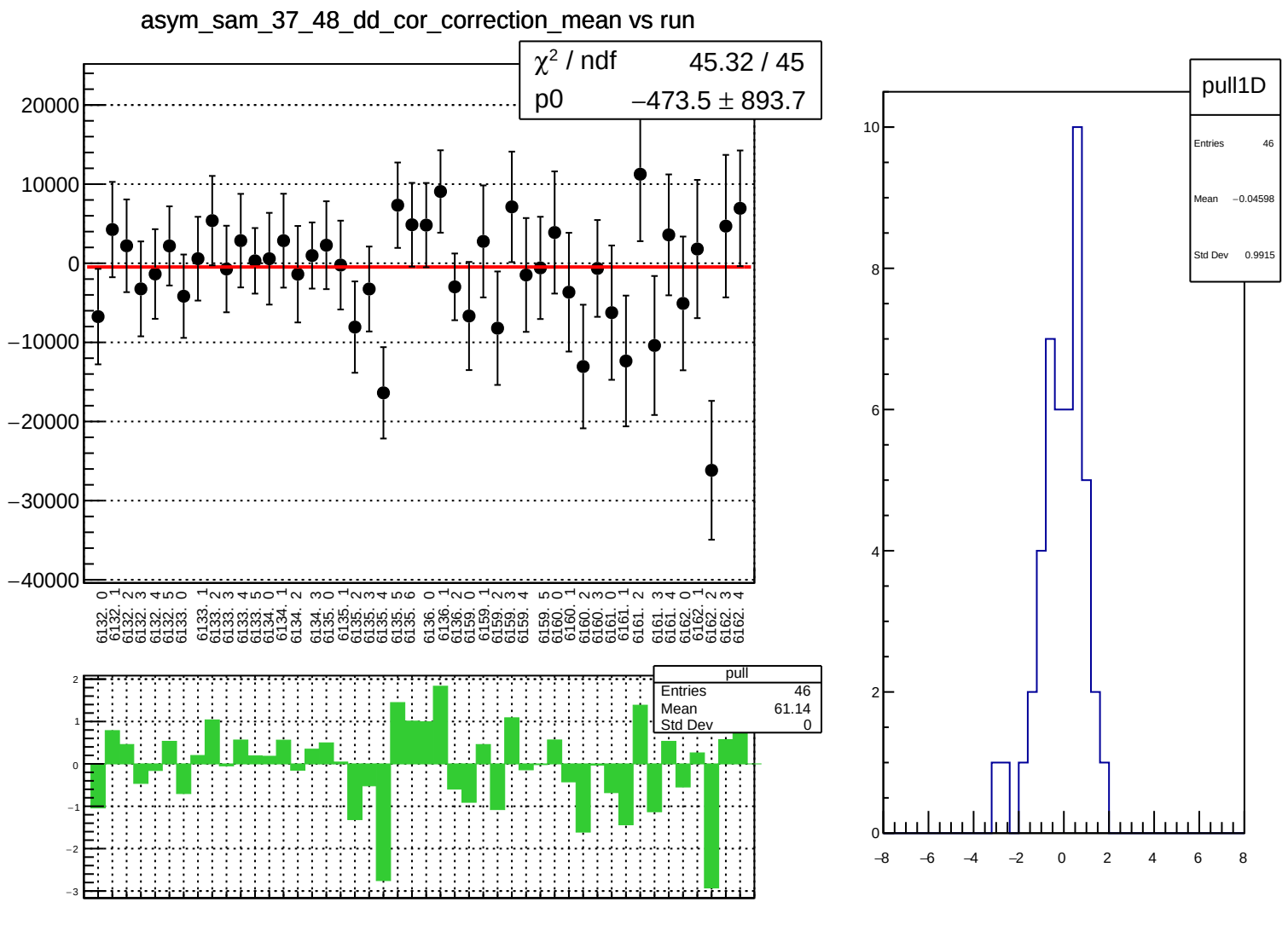
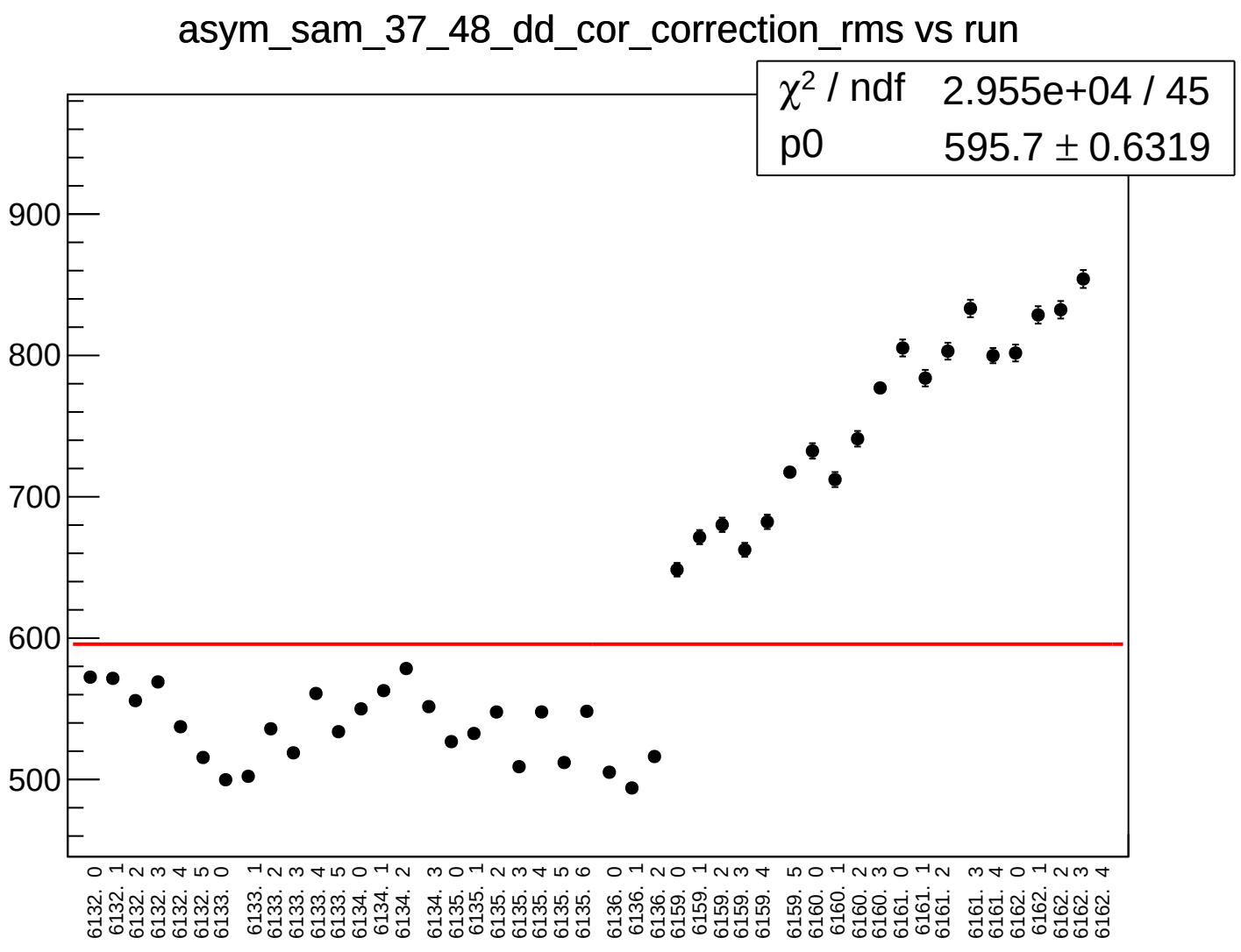
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

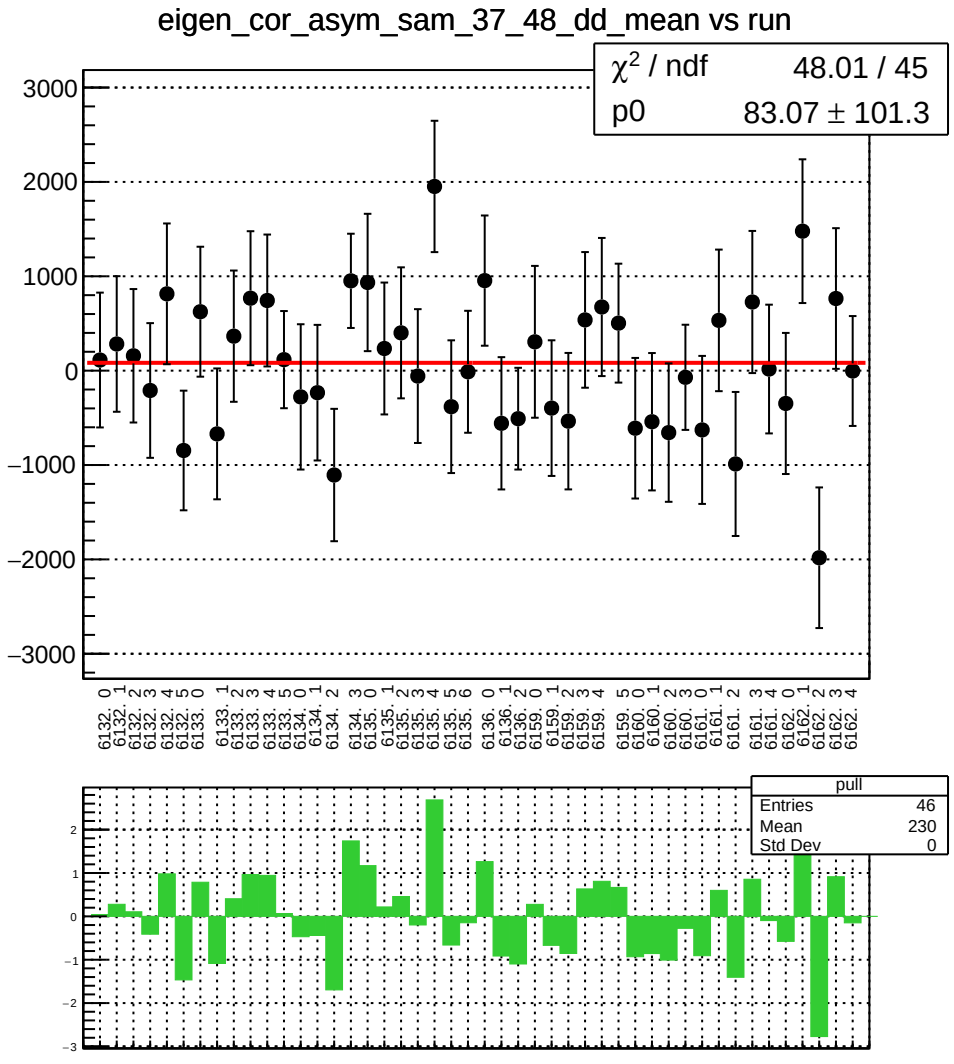

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 48.01 / 45
p0 83.07 ± 101.3
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 230
Std Dev 0
2
1
0
−1
−2
−3

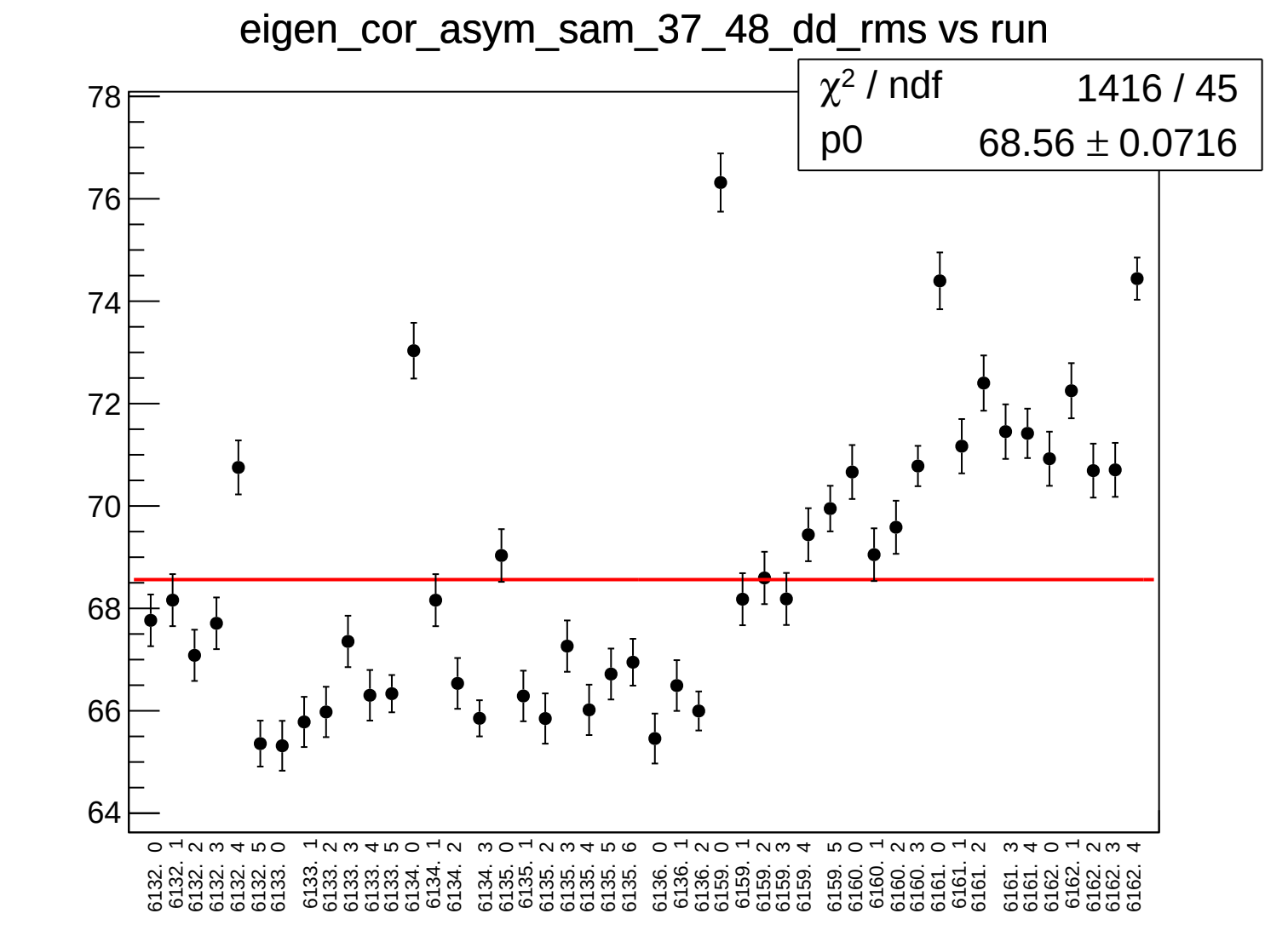

pull1D
Entries 46
Mean −0.008623
Std Dev 1.022
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

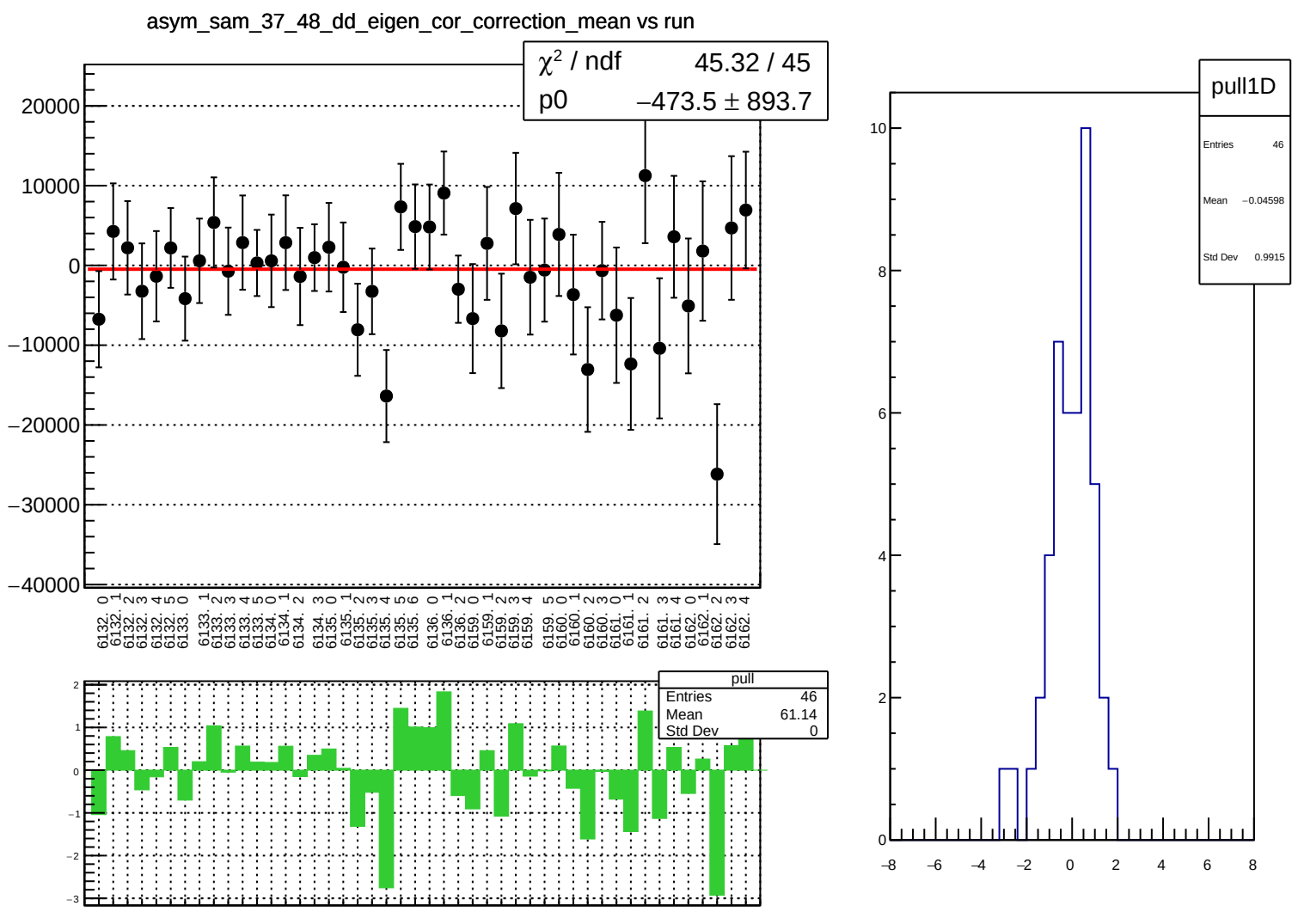

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1416 / 45
p0 68.56 ± 0.0716
78
76
74
72
70
68
66
64
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

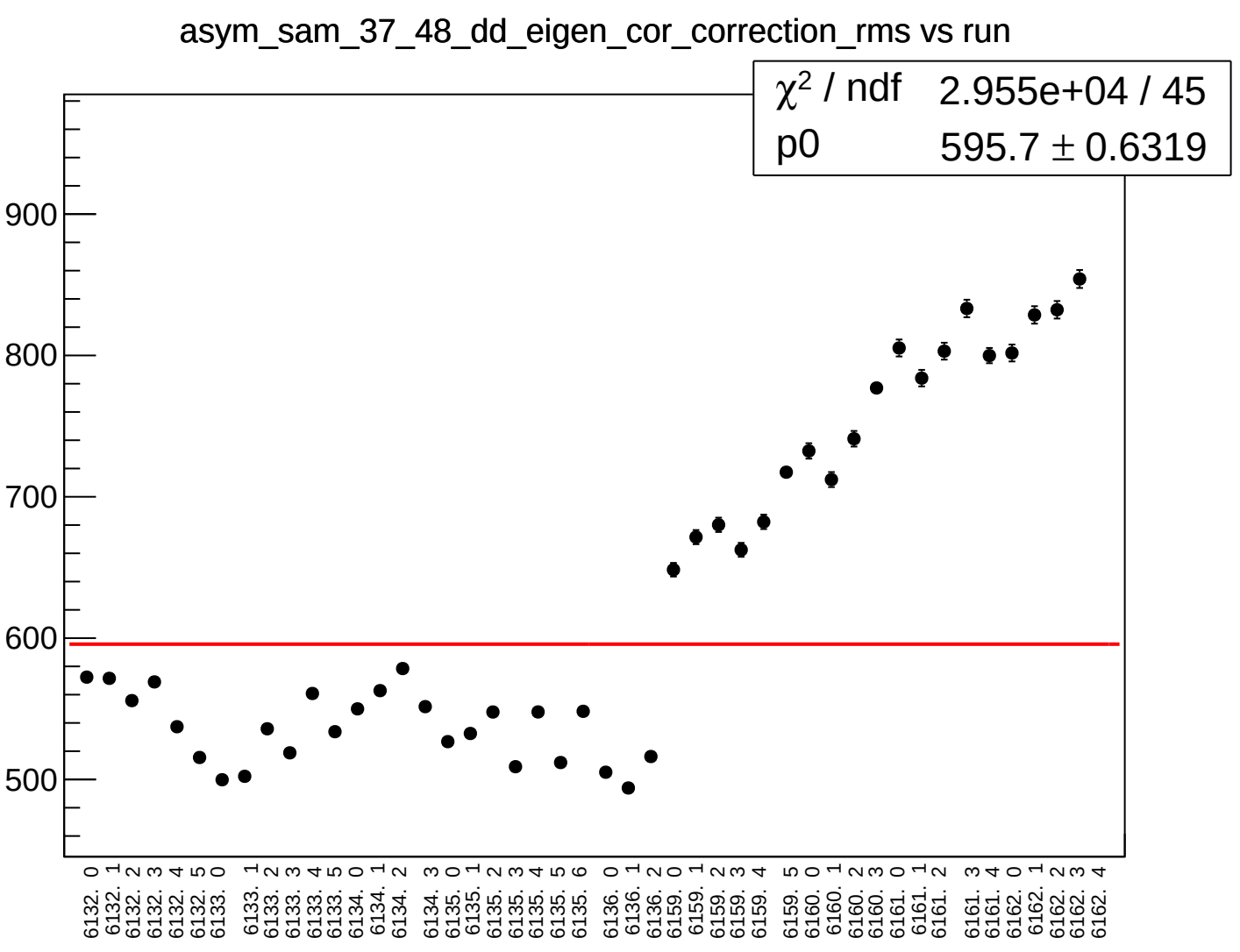

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 45.32 / 45
p0 −473.5 ± 893.7
pull
Entries 46
Mean 61.14
Std Dev 0
pull1D
Entries 46
Mean −0.04598
Std Dev 0.9915

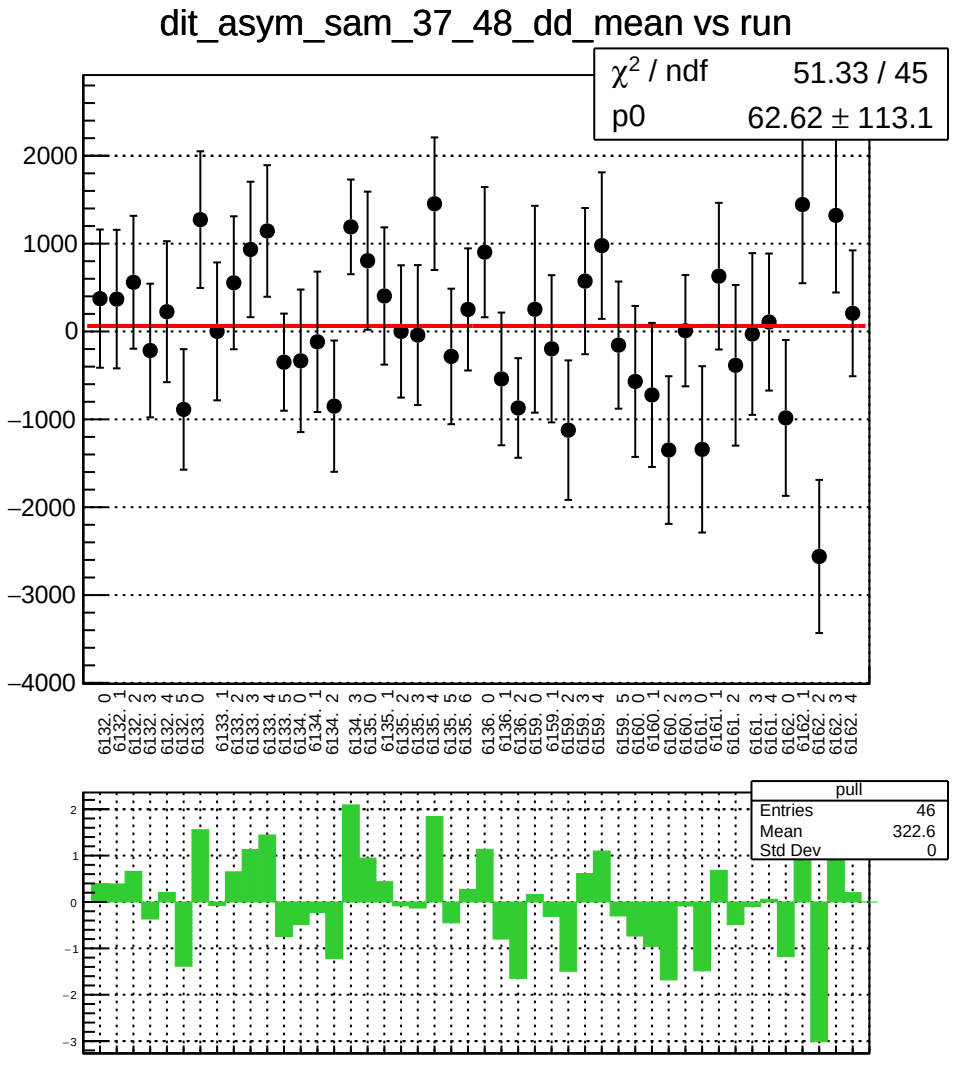

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 2.955e+04 / 45
p0 595.7 ± 0.6319
900
800
700
600
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

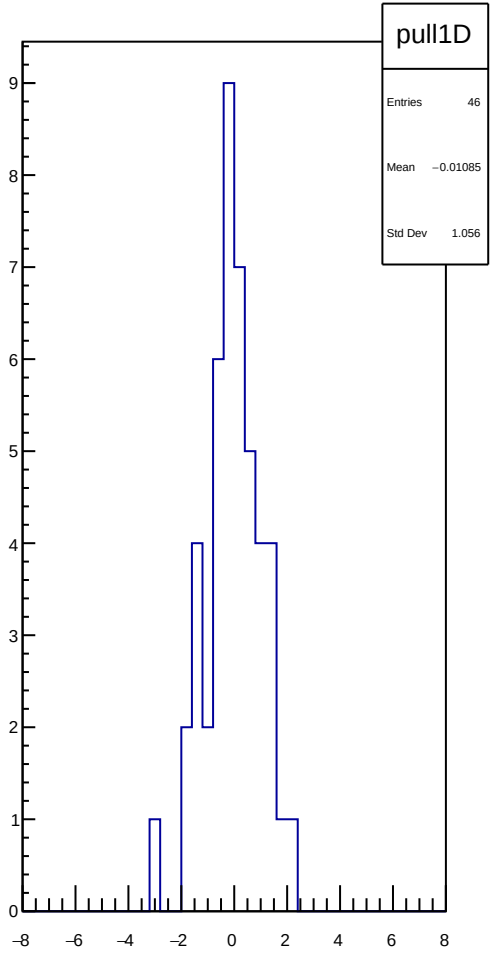

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 48.01 / 45
p0 83.07 ± 101.3
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 230
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.008623
Std Dev 1.022
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

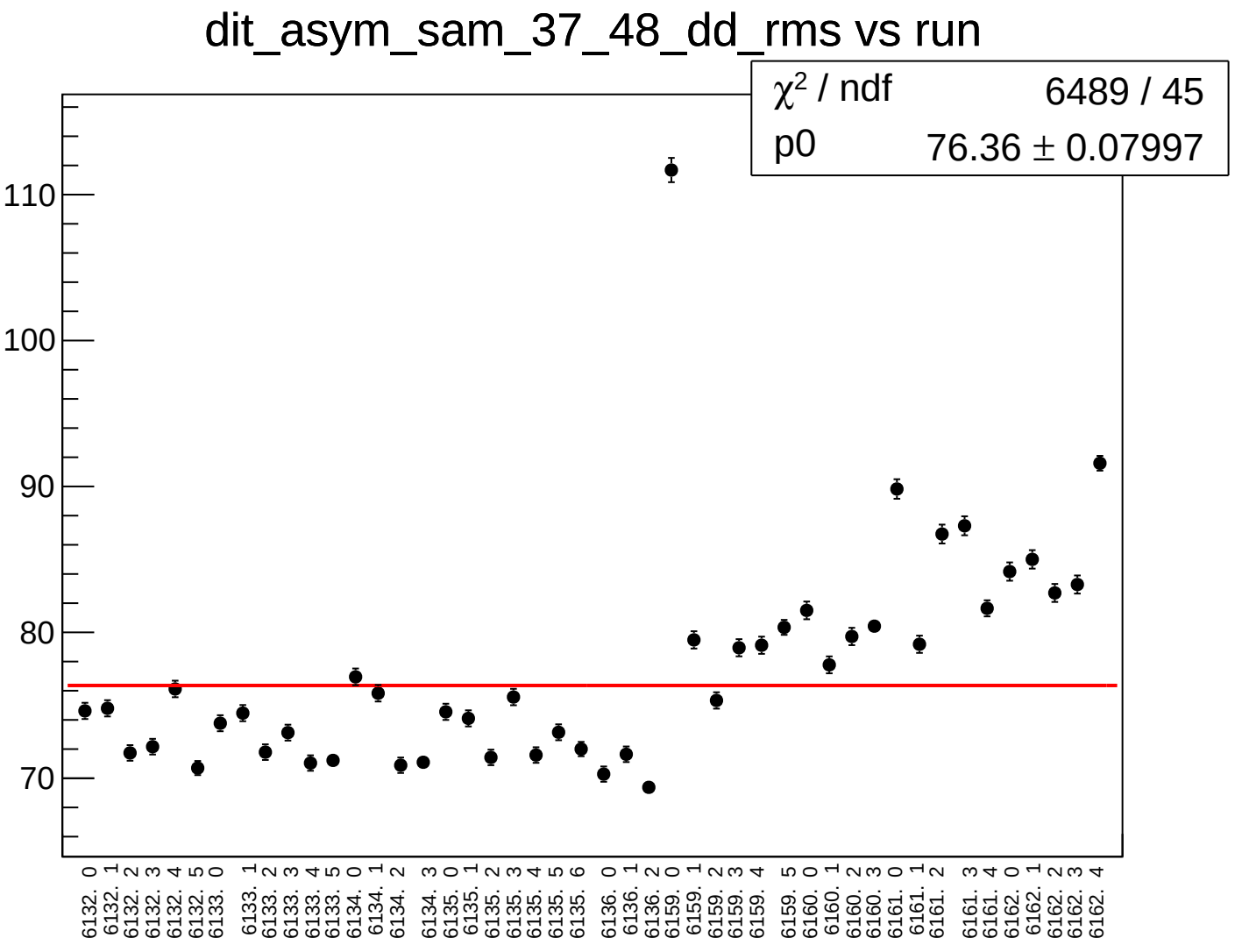

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1416 / 45
p0 68.56 ± 0.0716
78
76
74
72
70
68
66
64
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

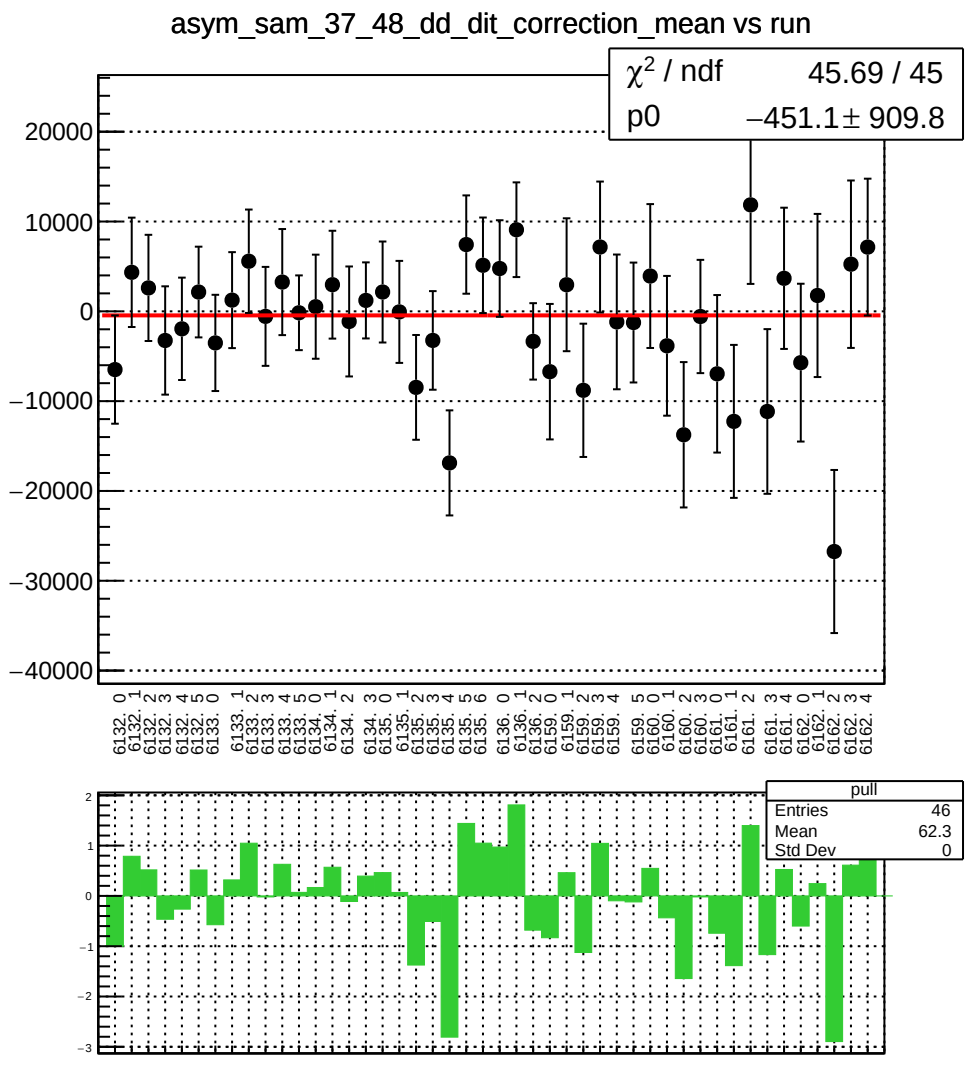

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 45.32 / 45
p0 −473.5 ± 893.7
pull
Entries 46
Mean 61.14
Std Dev 0
pull1D
Entries 46
Mean −0.04598
Std Dev 0.9915

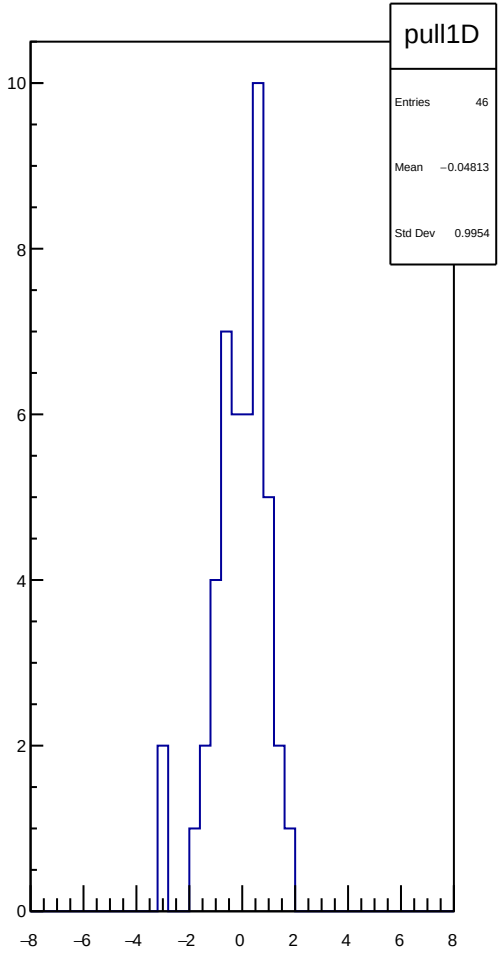

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.955e+04 / 45
p0 595.7 ± 0.6319
900
800
700
600
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

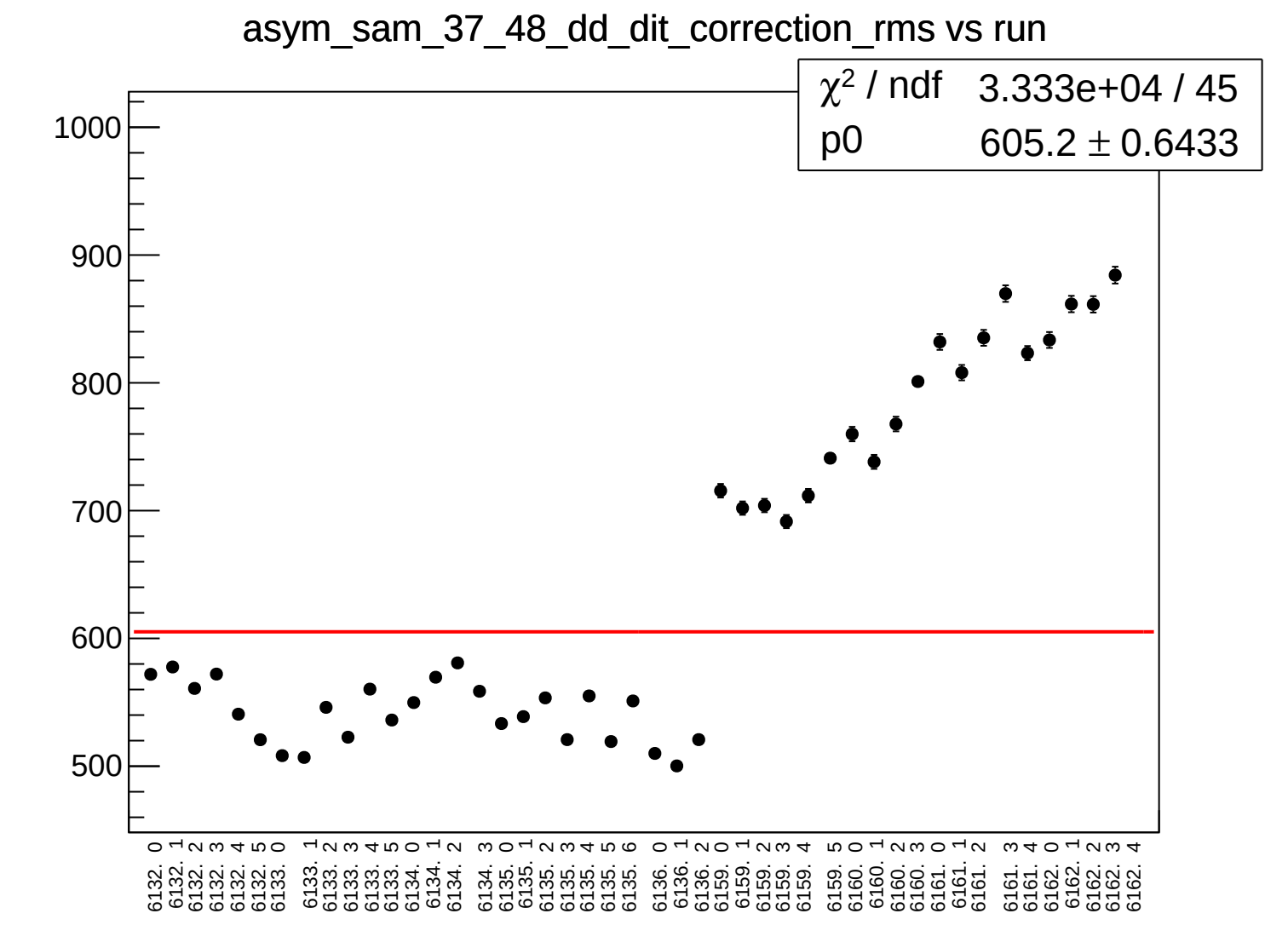

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 51.33 / 45
p0 62.62 ± 113.1
2000
1000
0
−1000
−2000
−3000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 322.6
Std Dev 0
2
1
0
−1
−2
−3

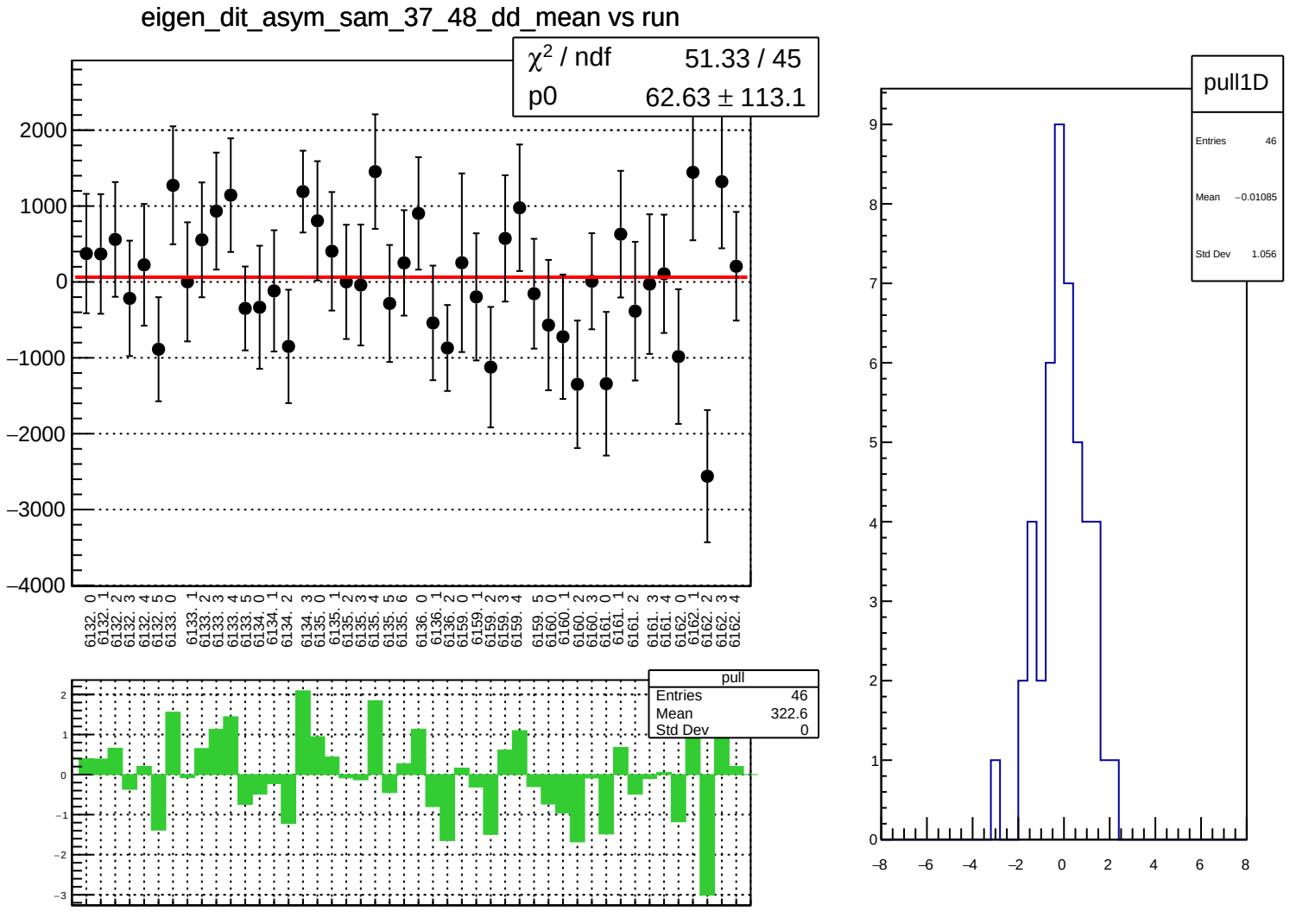

pull1D
Entries 46
Mean −0.01085
Std Dev 1.056
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

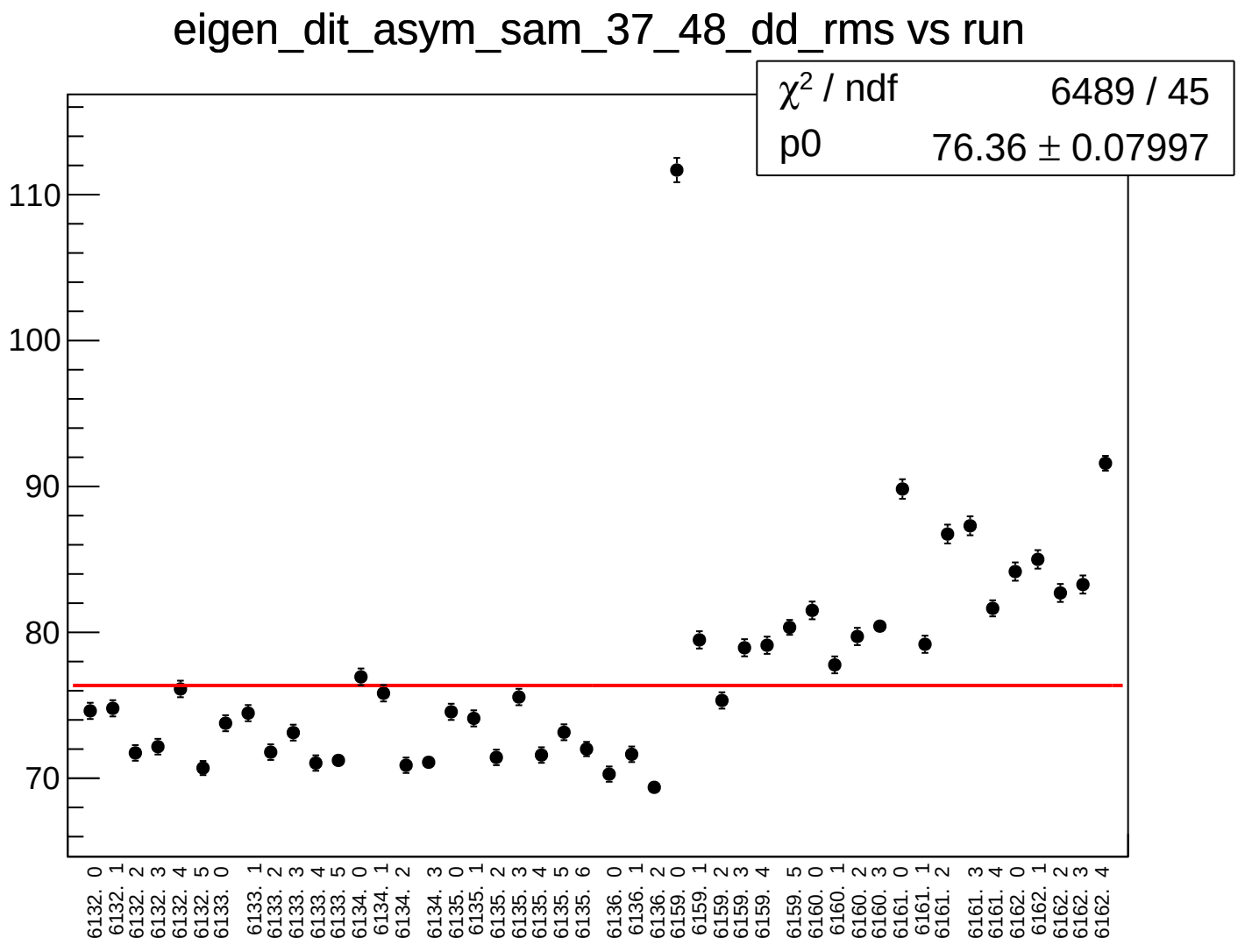

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 6489 / 45
p0 76.36 ± 0.07997
110
100
90
80
70
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

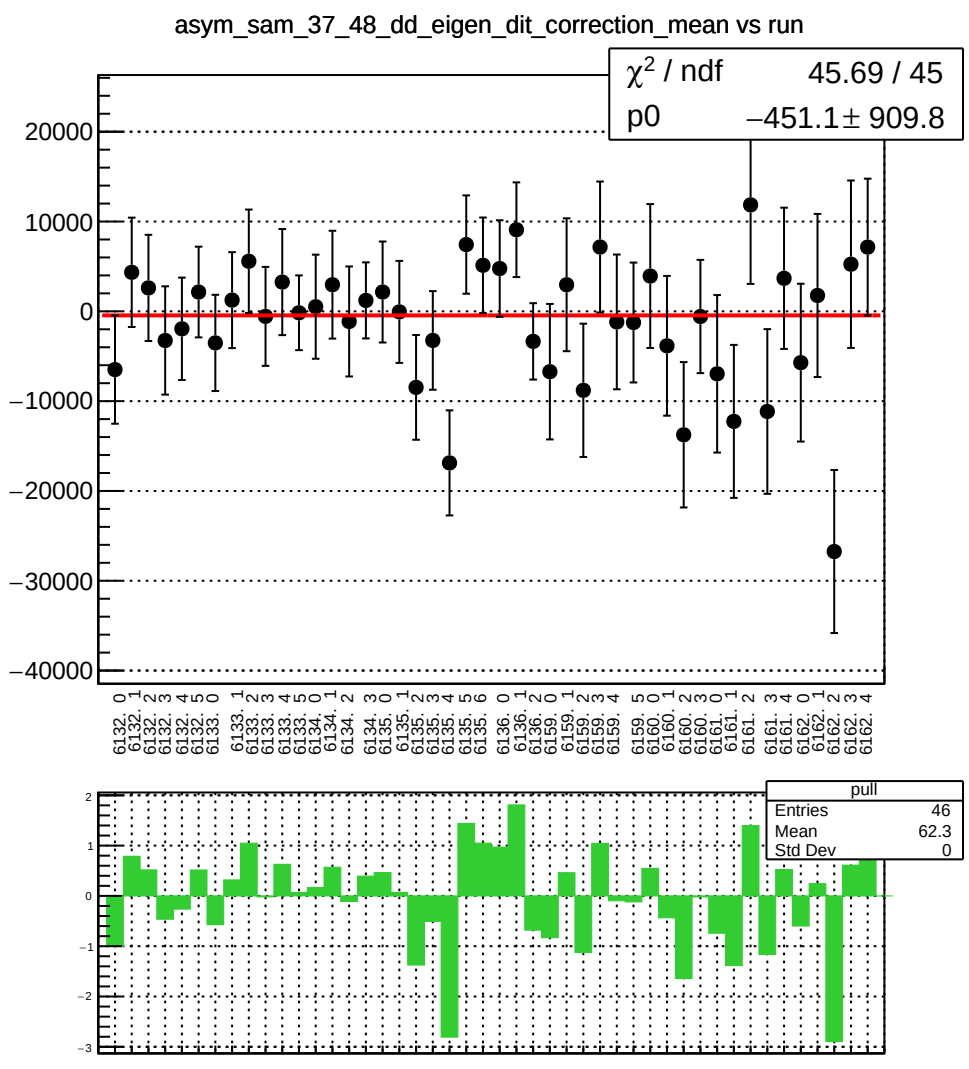

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 45.69 / 45
p0 −451.1± 909.8
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 62.3
Std Dev 0
2
1
0
−1
−2
−3

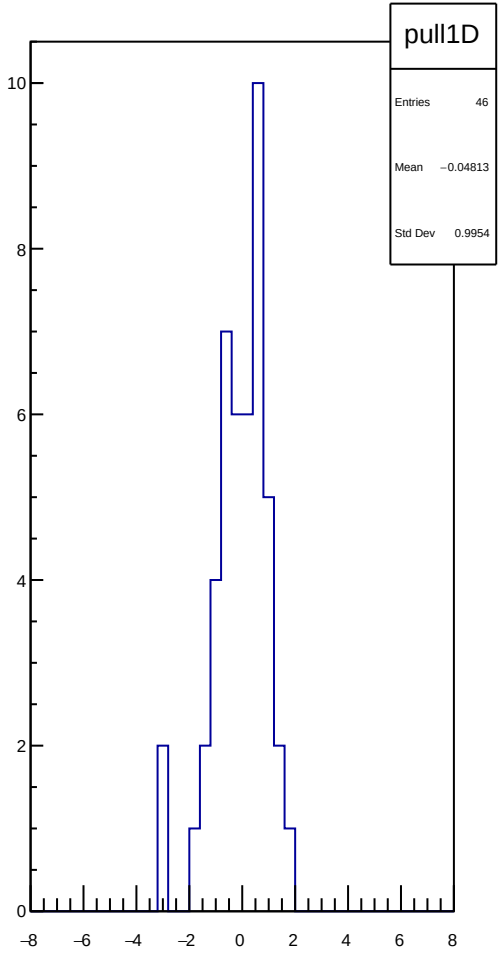

pull1D
Entries 46
Mean −0.04813
Std Dev 0.9954
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

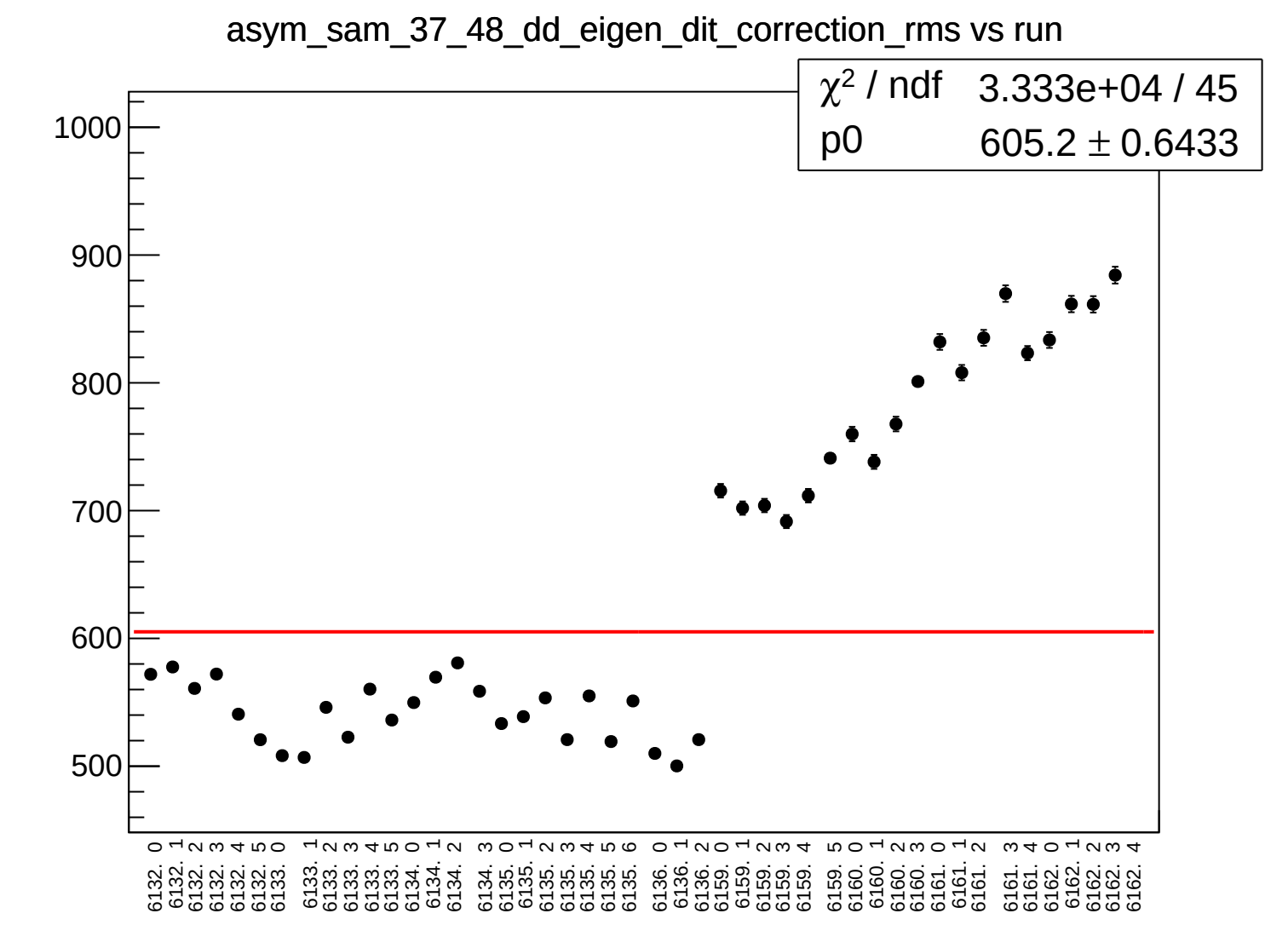

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 3.333e+04 / 45
p0 605.2 ± 0.6433
1000
900
800
700
600
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

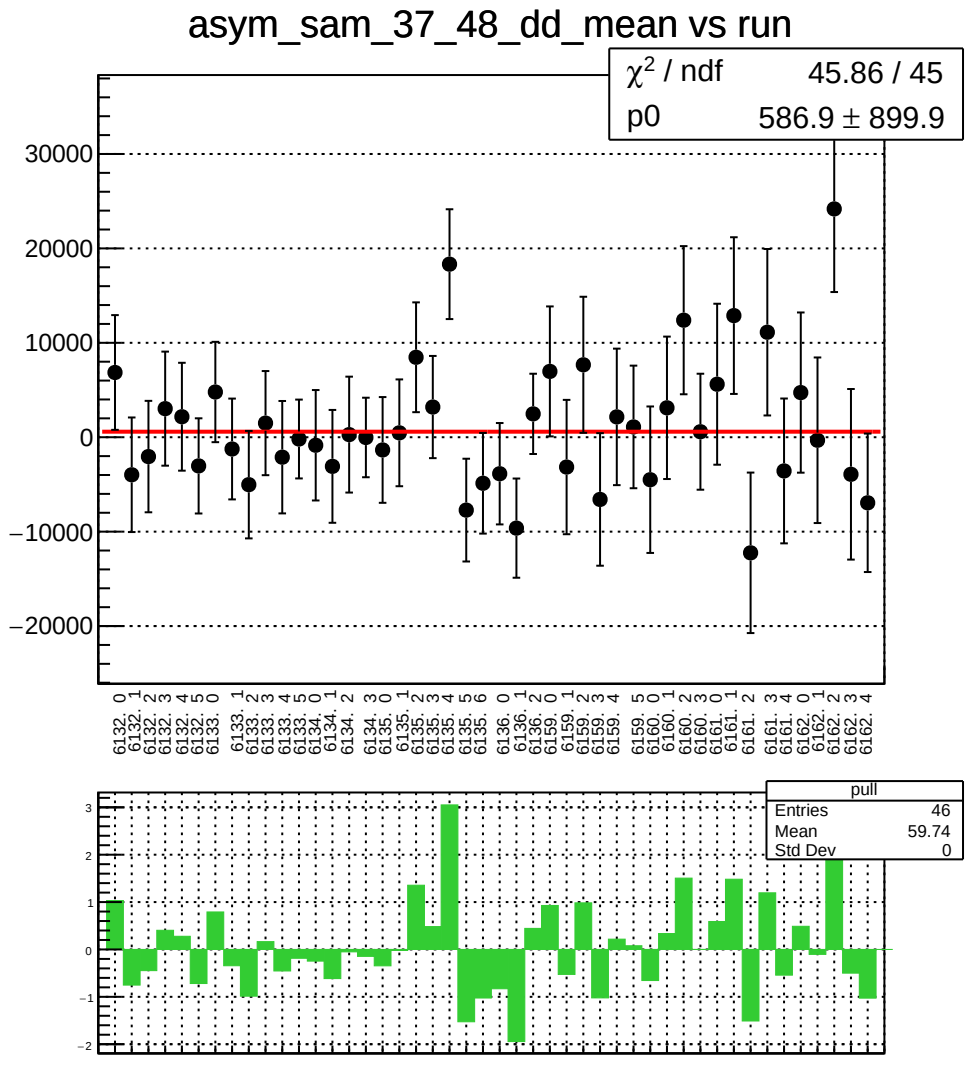

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 51.33 / 45
p0 62.63 ± 113.1
2000
1000
0
−1000
−2000
−3000
−4000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 322.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.01085
Std Dev 1.056
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 6489 / 45
p0 76.36 ± 0.07997
110
100
90
80
70
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 45.69 / 45
p0 −451.1± 909.8
pull
Entries 46
Mean 62.3
Std Dev 0


pull1D
Entries 46
Mean −0.04813
Std Dev 0.9954


asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.333e+04 / 45
p0 605.2 ± 0.6433
1000
900
800
700
600
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_37_48_dd_mean vs run
χ² / ndf 45.86 / 45
p0 586.9 ± 899.9
30000
20000
10000
0
−10000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
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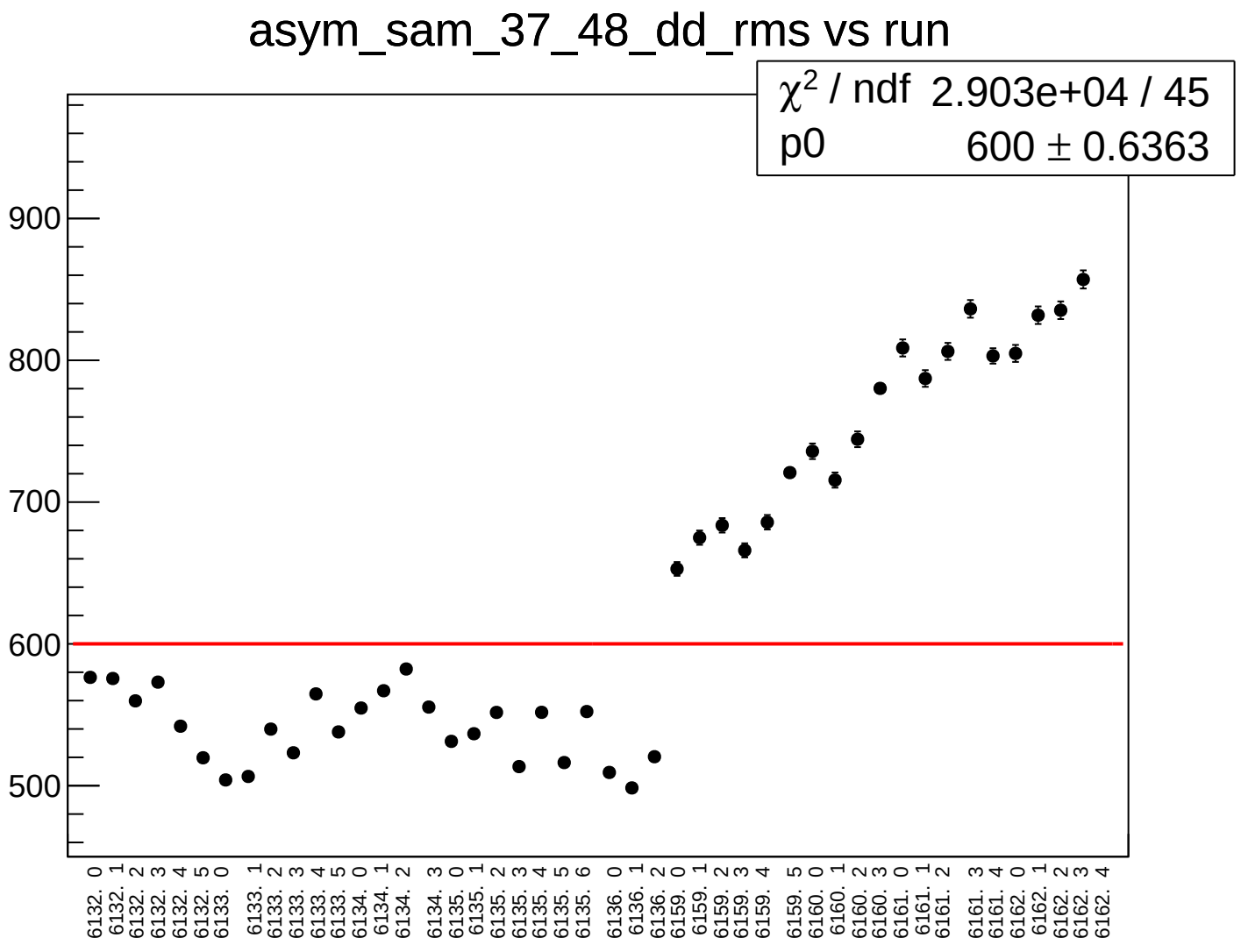
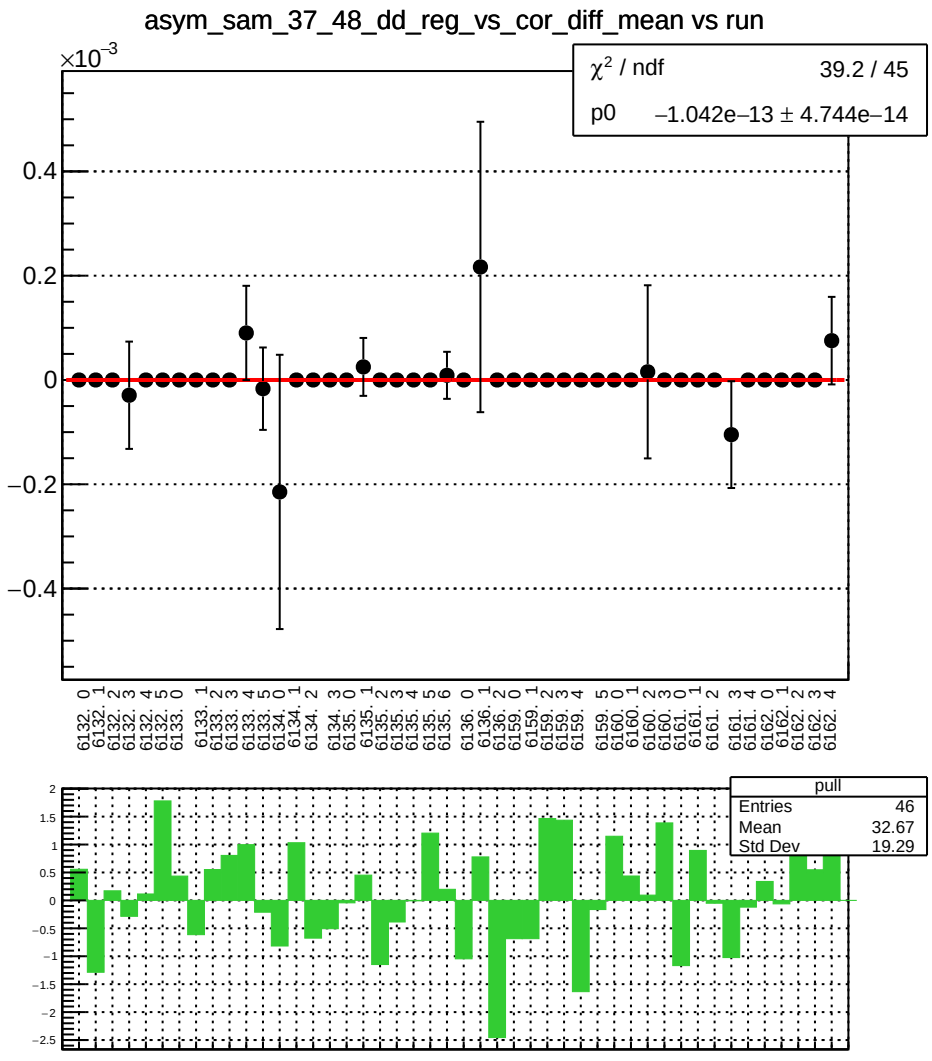
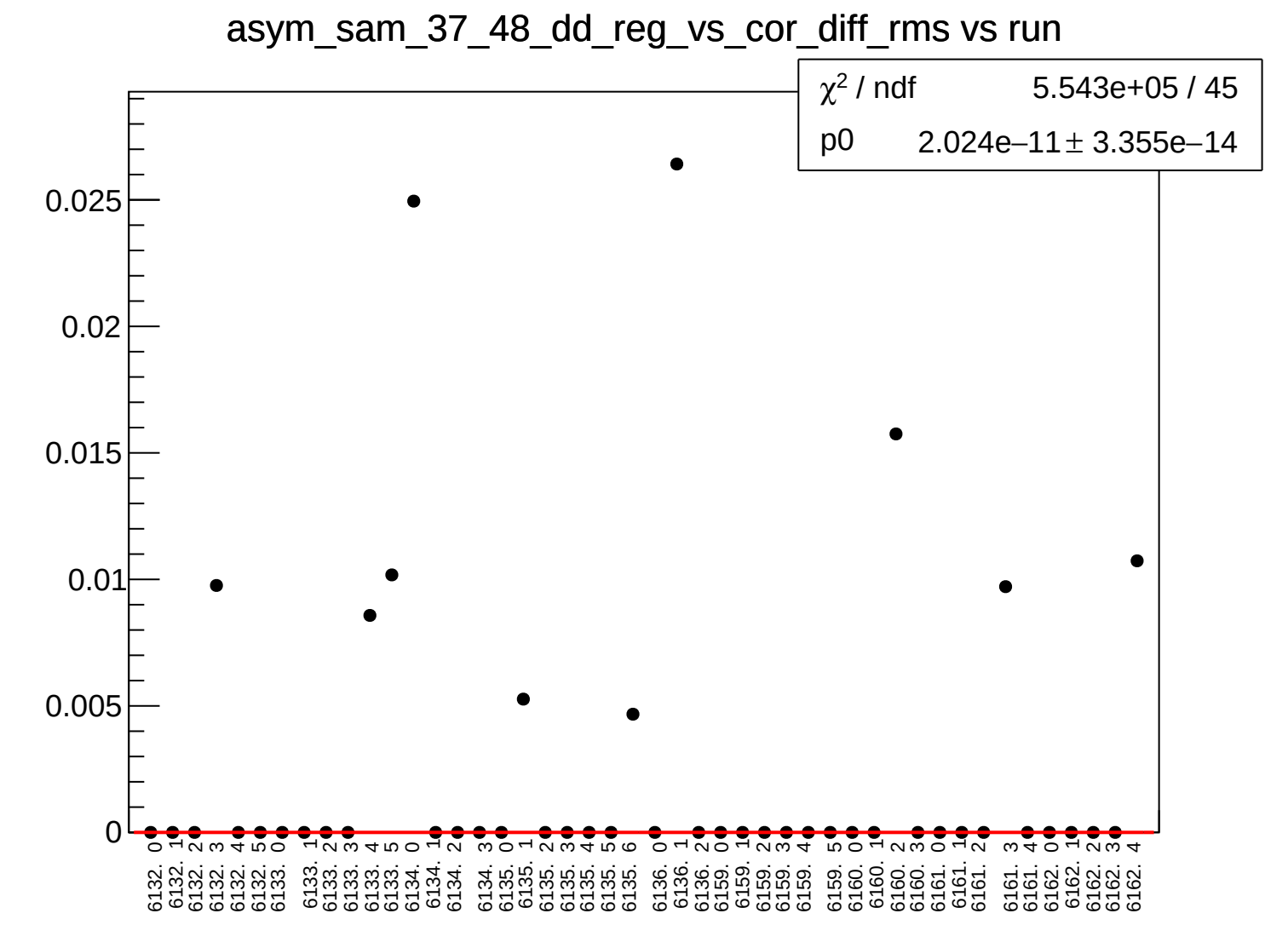
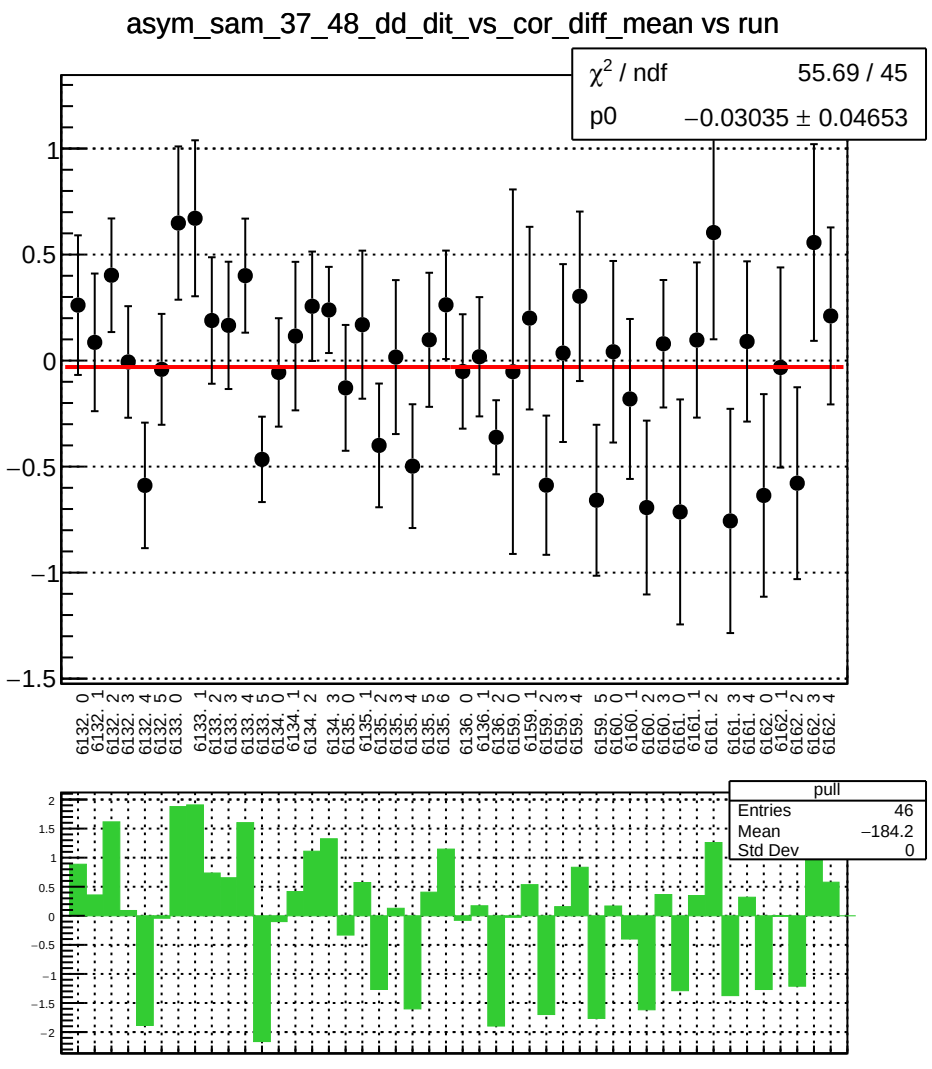
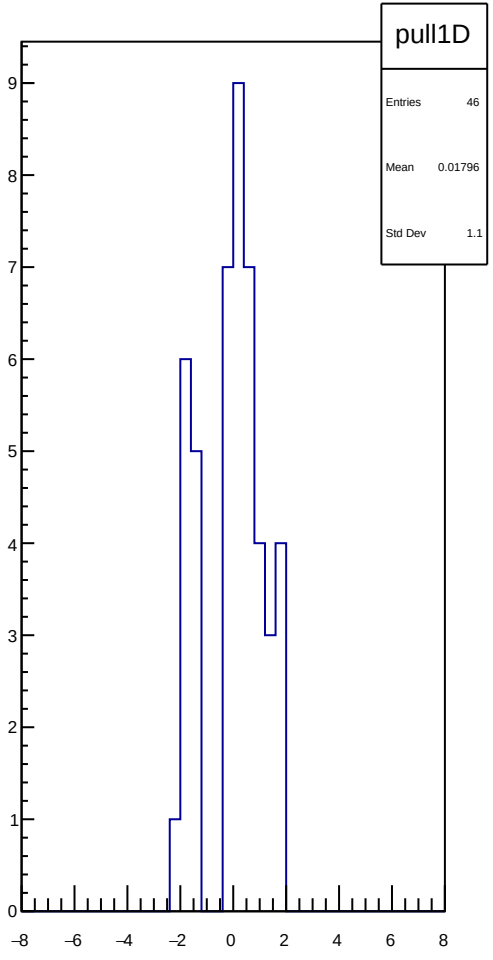
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 59.74
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.04271
Std Dev 0.9976
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

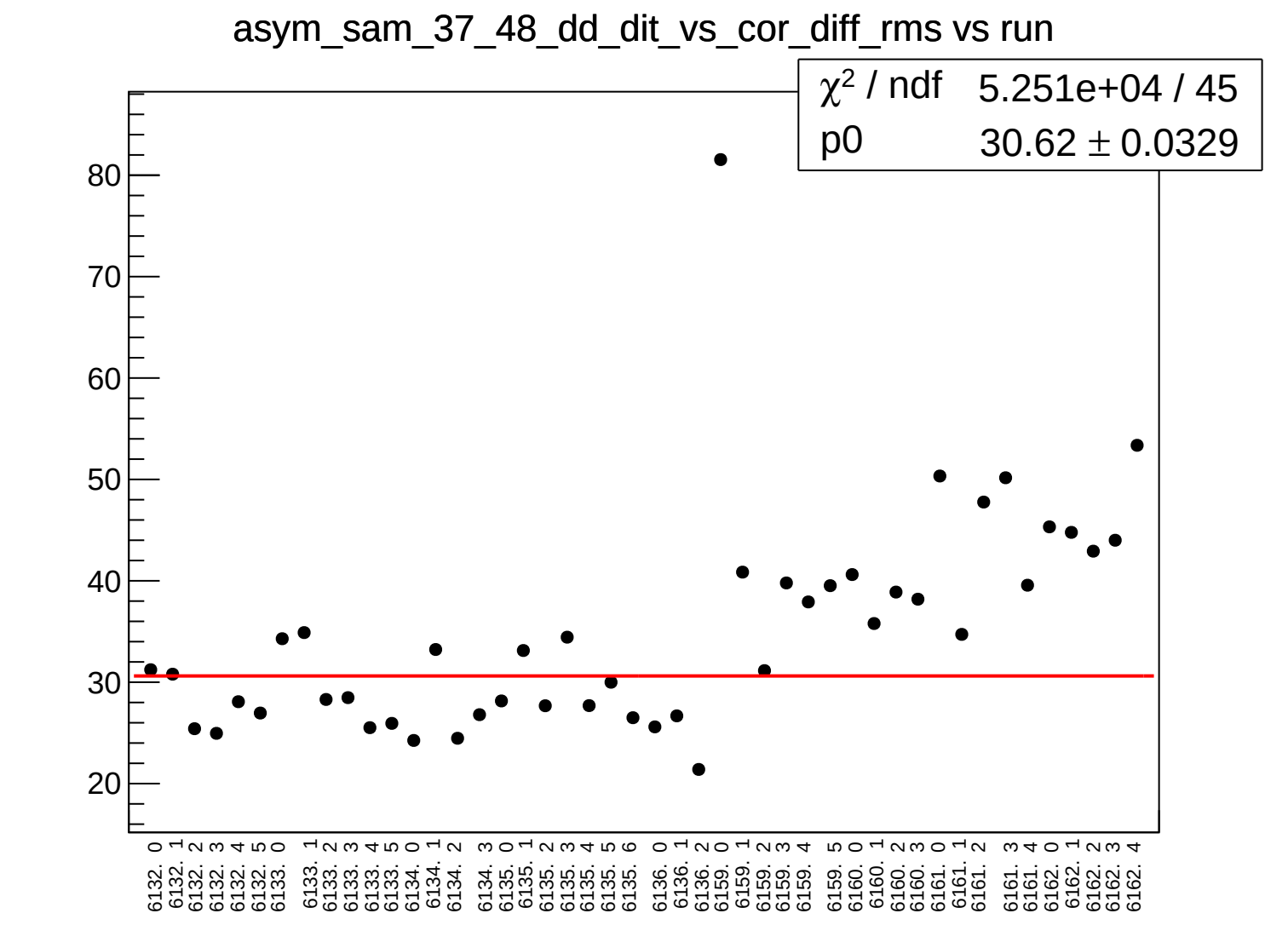

asym_sam_37_48_dd_rms vs run
χ² / ndf 2.903e+04 / 45
p0 600 ± 0.6363
900
800
700
600
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 39.2 / 45
p0 −1.042e−13 ± 4.744e−14
0.4
0.2
0
−0.2
−0.4
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 32.67
Std Dev 19.29
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean 0.09074
Std Dev 0.9186
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.543e+05 / 45
p0 2.024e−11 ± 3.355e−14
0.025
0.02
0.015
0.01
0.005
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 55.69 / 45
p0 −0.03035 ± 0.04653
pull
Entries 46
Mean −184.2
Std Dev 0


pull1D
Entries 46
Mean 0.01796
Std Dev 1.1


asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.251e+04 / 45
p0 30.62 ± 0.0329
80
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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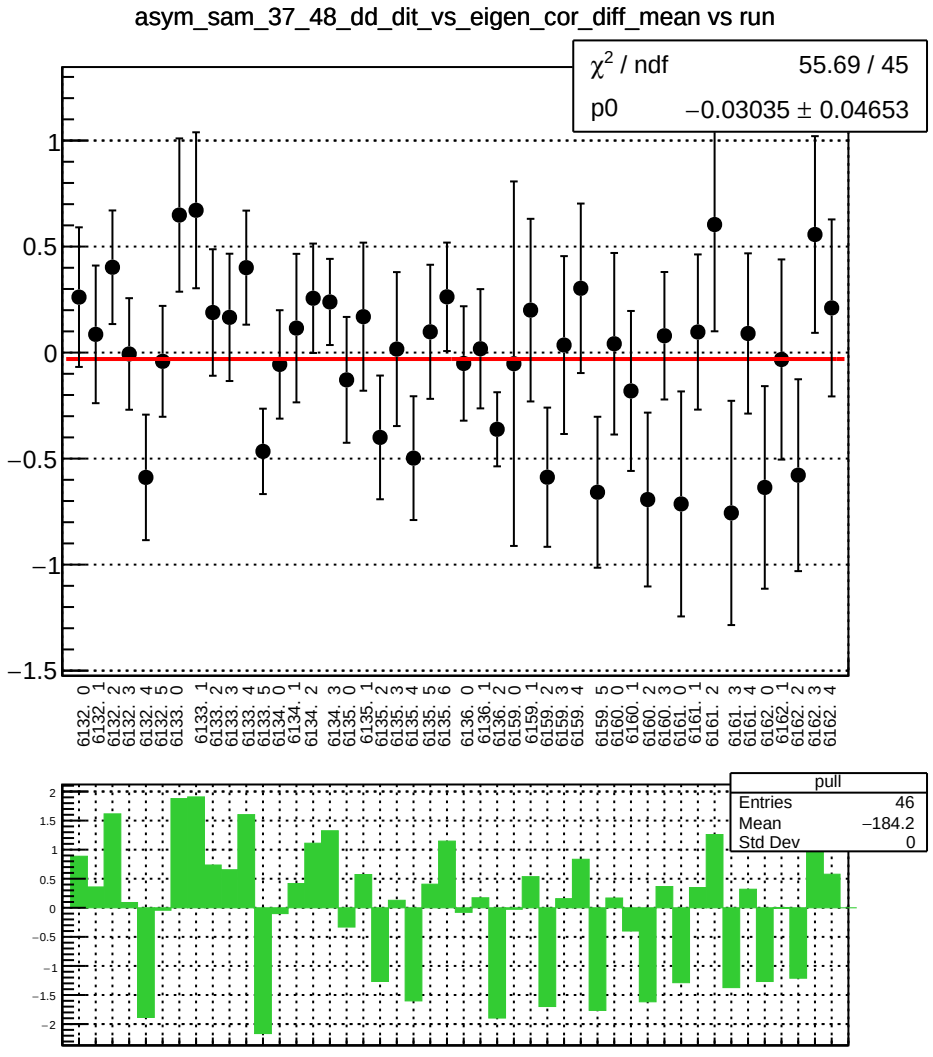
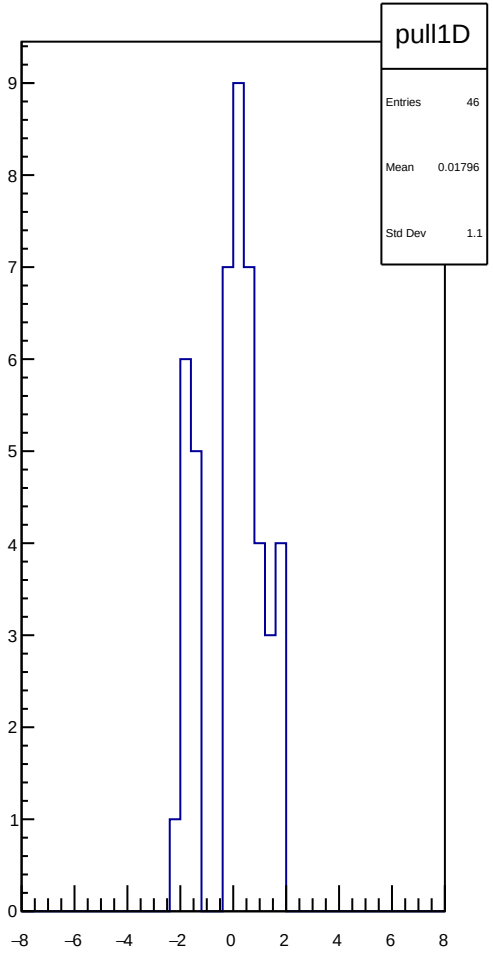
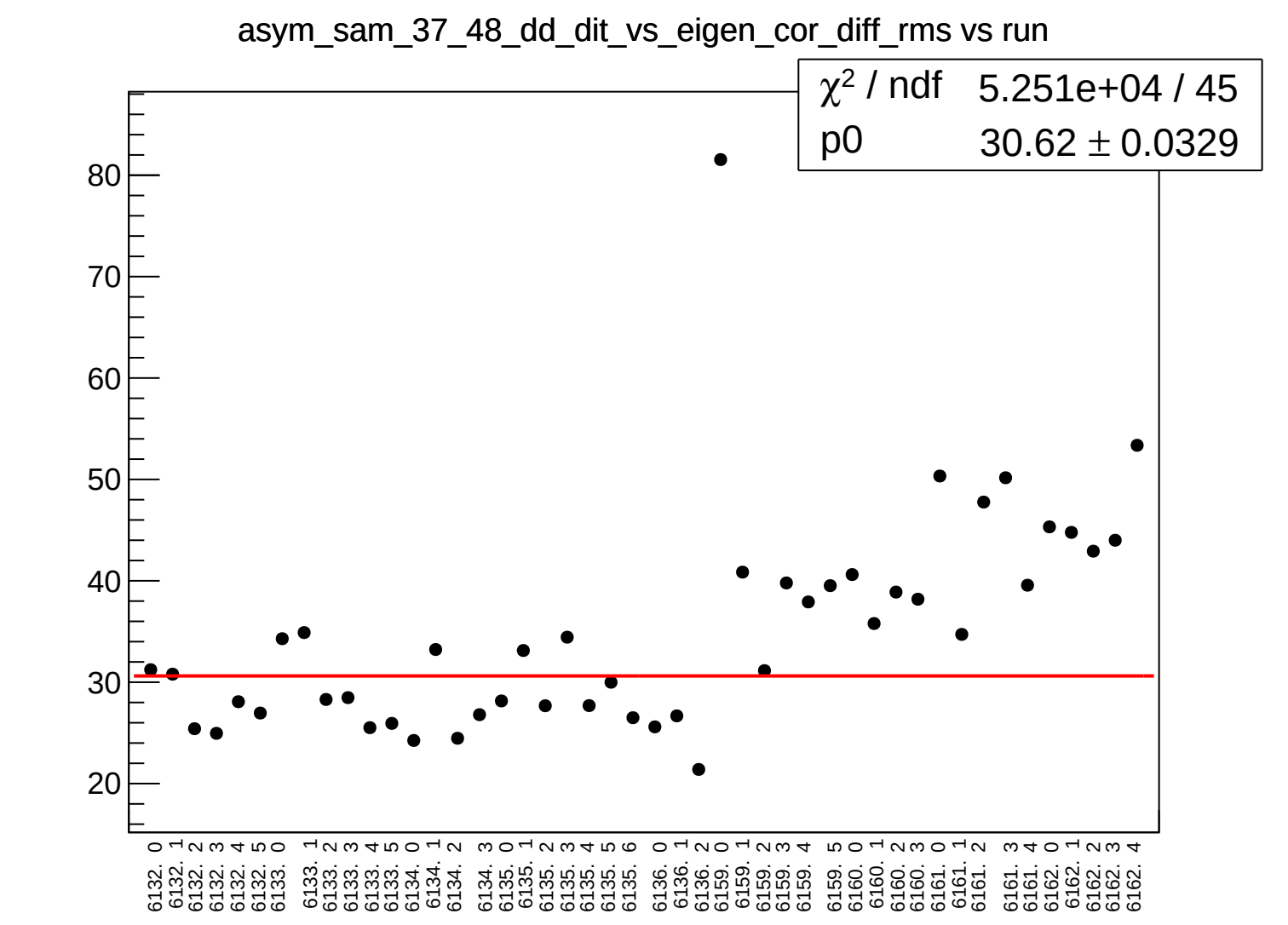
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 55.69 / 45
p0 −0.03035 ± 0.04653
pull
Entries 46
Mean −184.2
Std Dev 0


pull1D
Entries 46
Mean 0.01796
Std Dev 1.1


asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.251e+04 / 45
p0 30.62 ± 0.0329
80
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
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6161. 4
6162. 0
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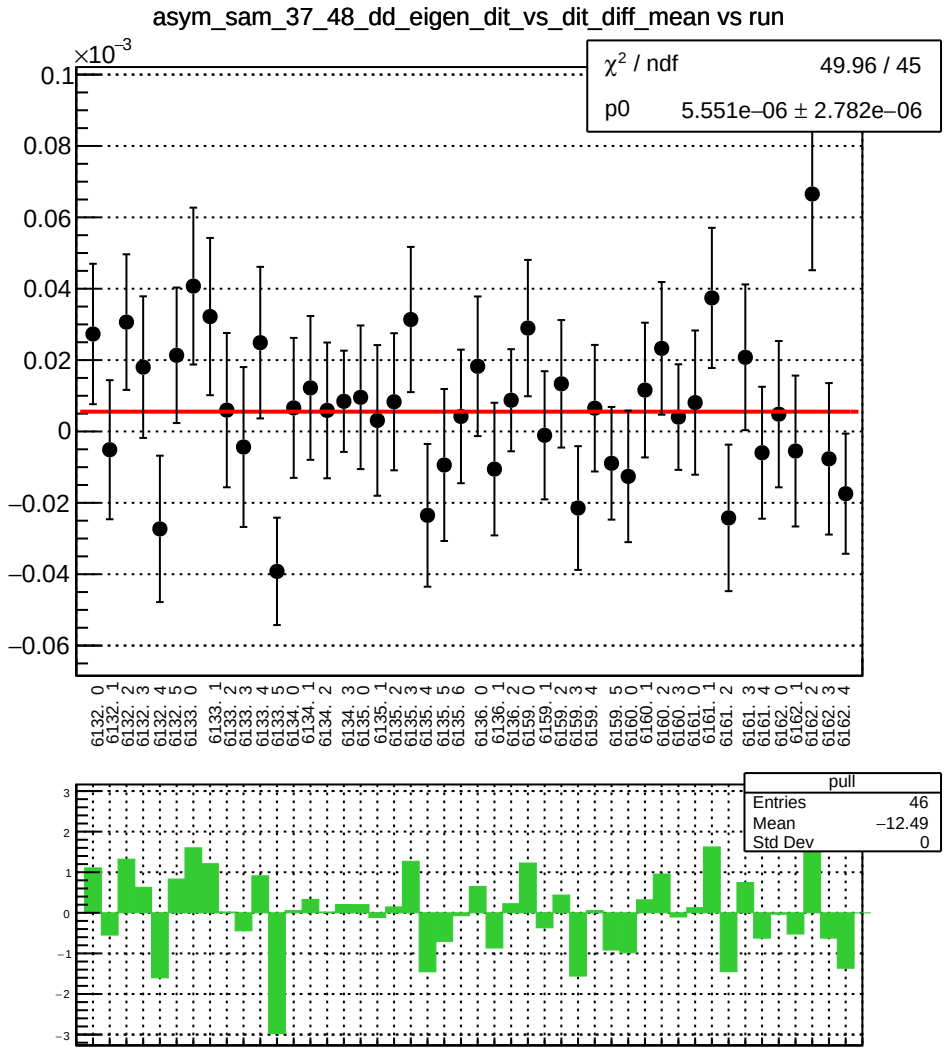
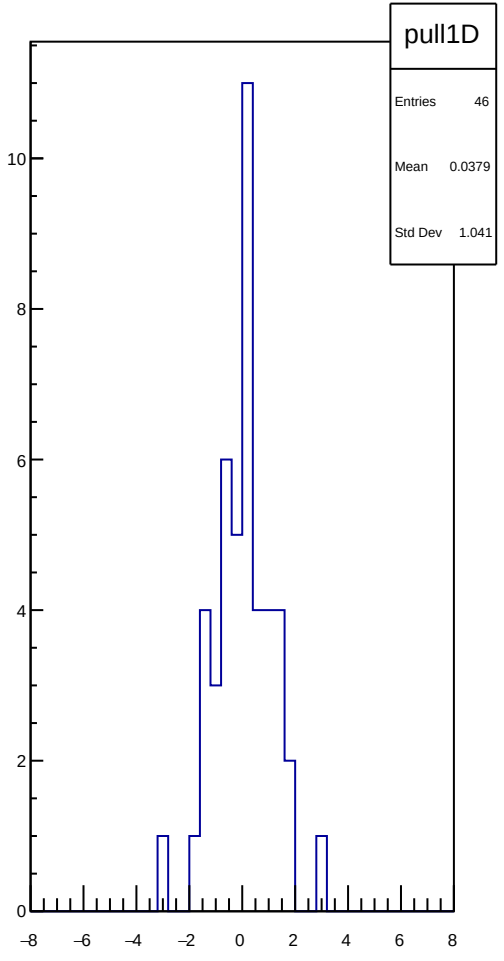
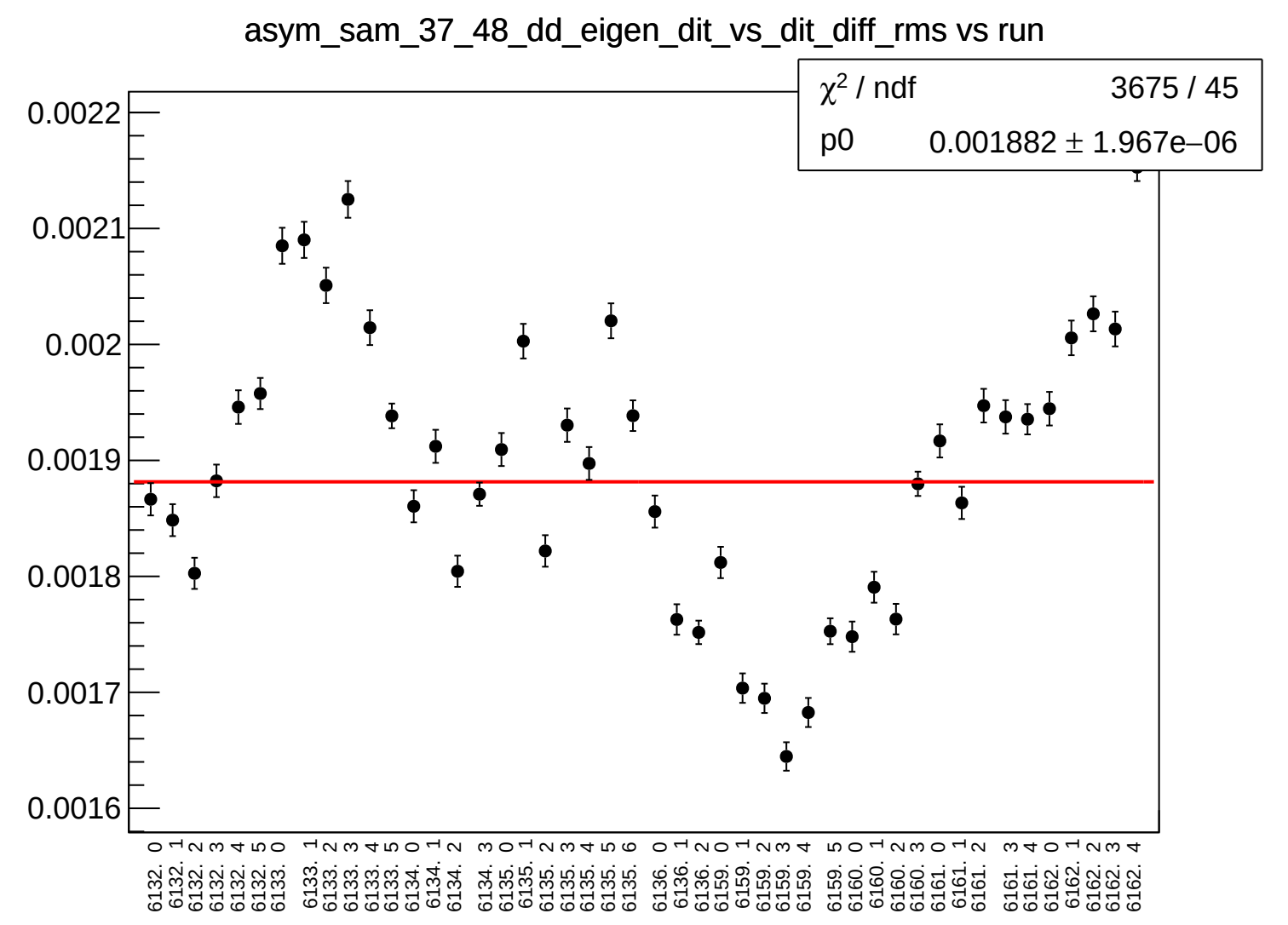
6162. 4


asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 49.96 / 45
p0 5.551e−06 ± 2.782e−06
pull
Entries 46
Mean −12.49
Std Dev 0


pull1D
Entries 46
Mean 0.0379
Std Dev 1.041


asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3675 / 45
p0 0.001882 ± 1.967e−06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
6132. 0
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6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
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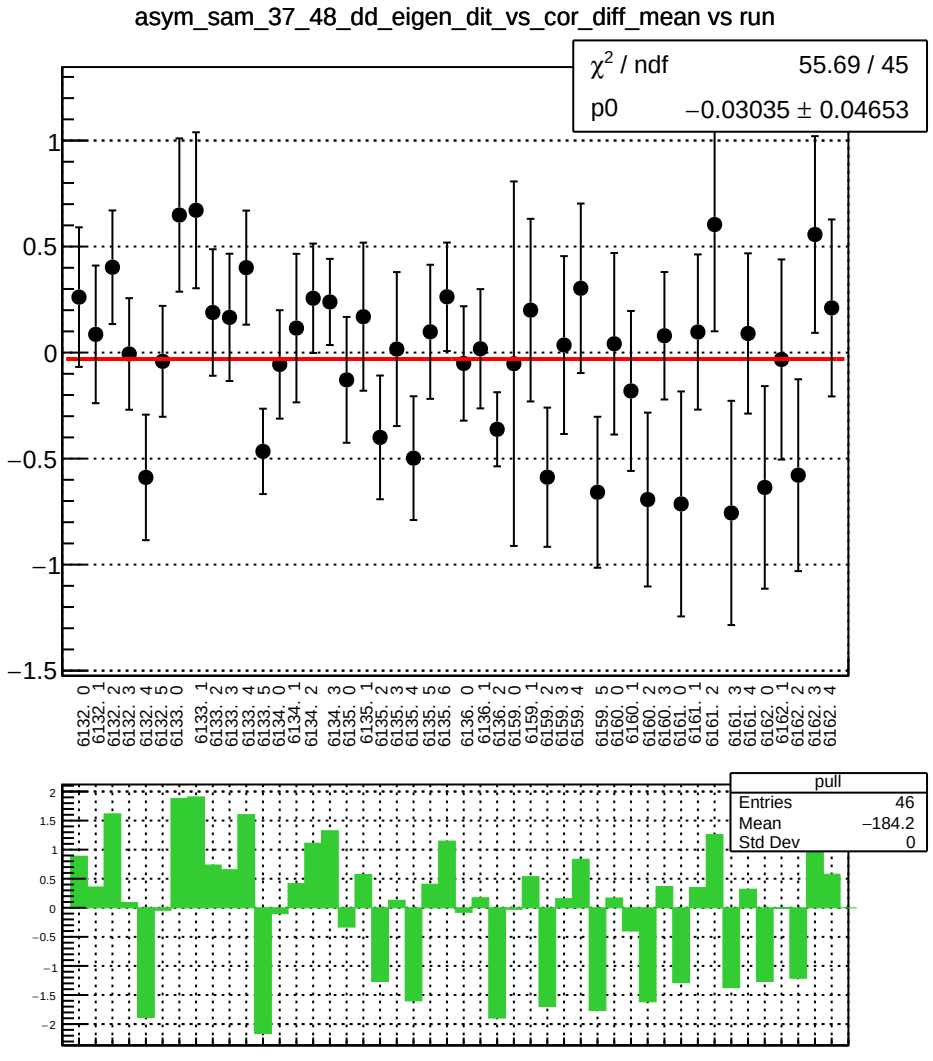
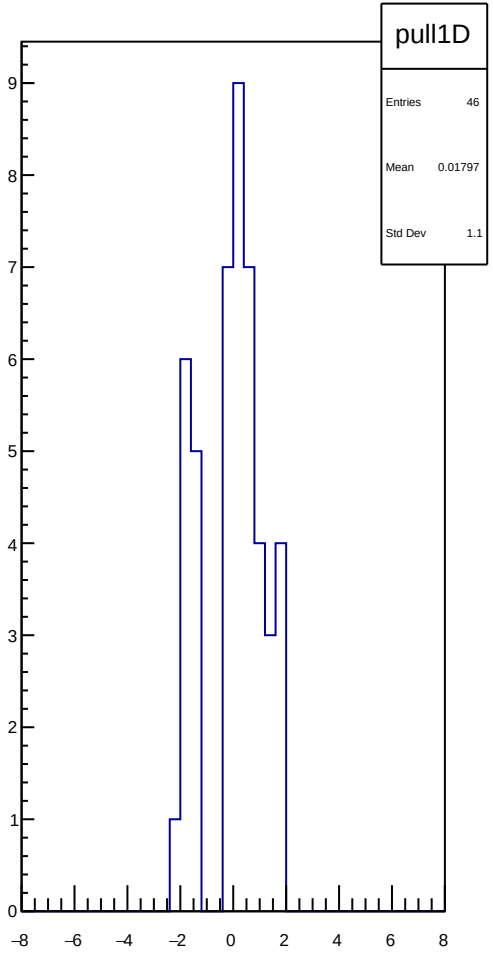
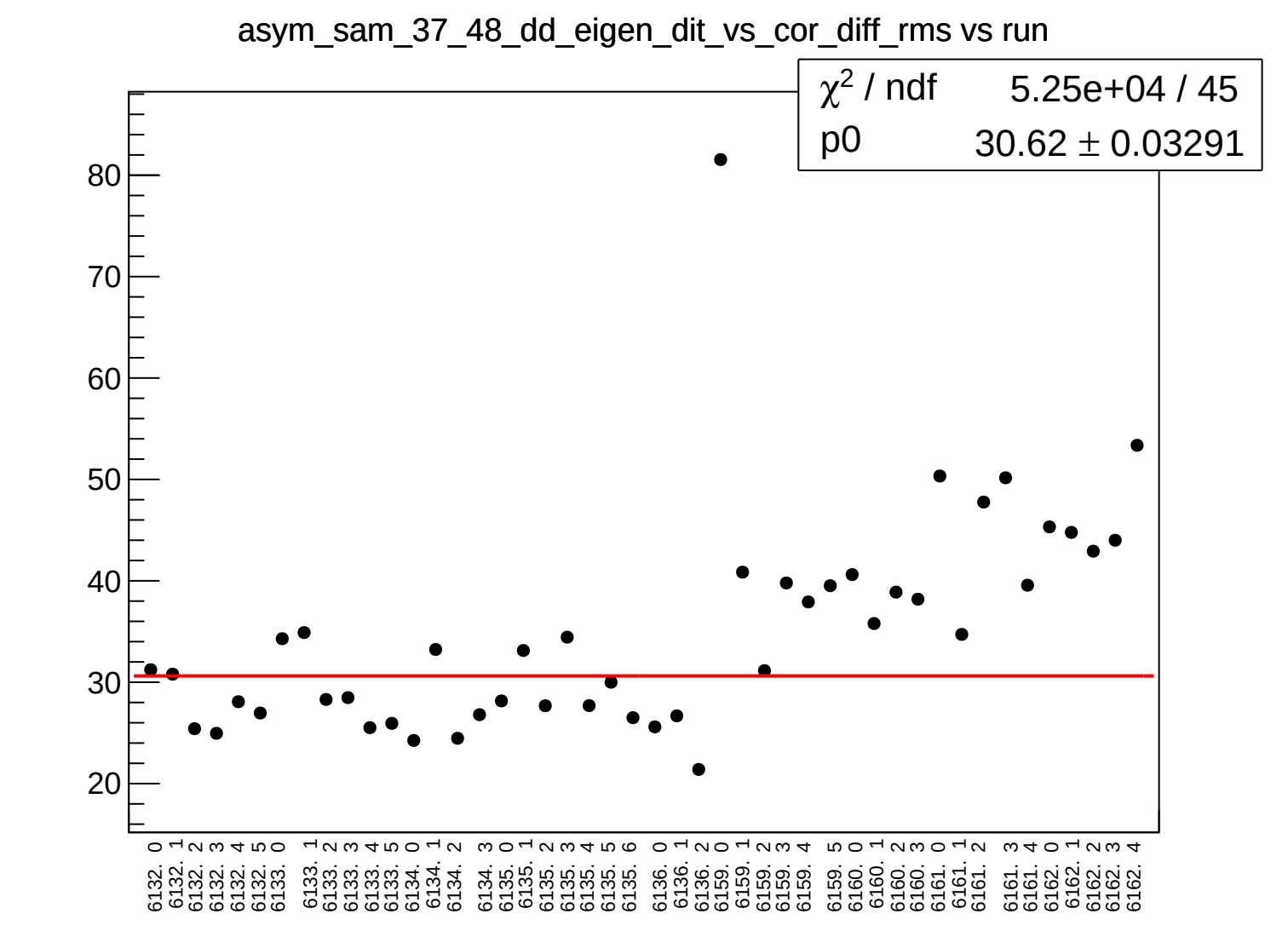
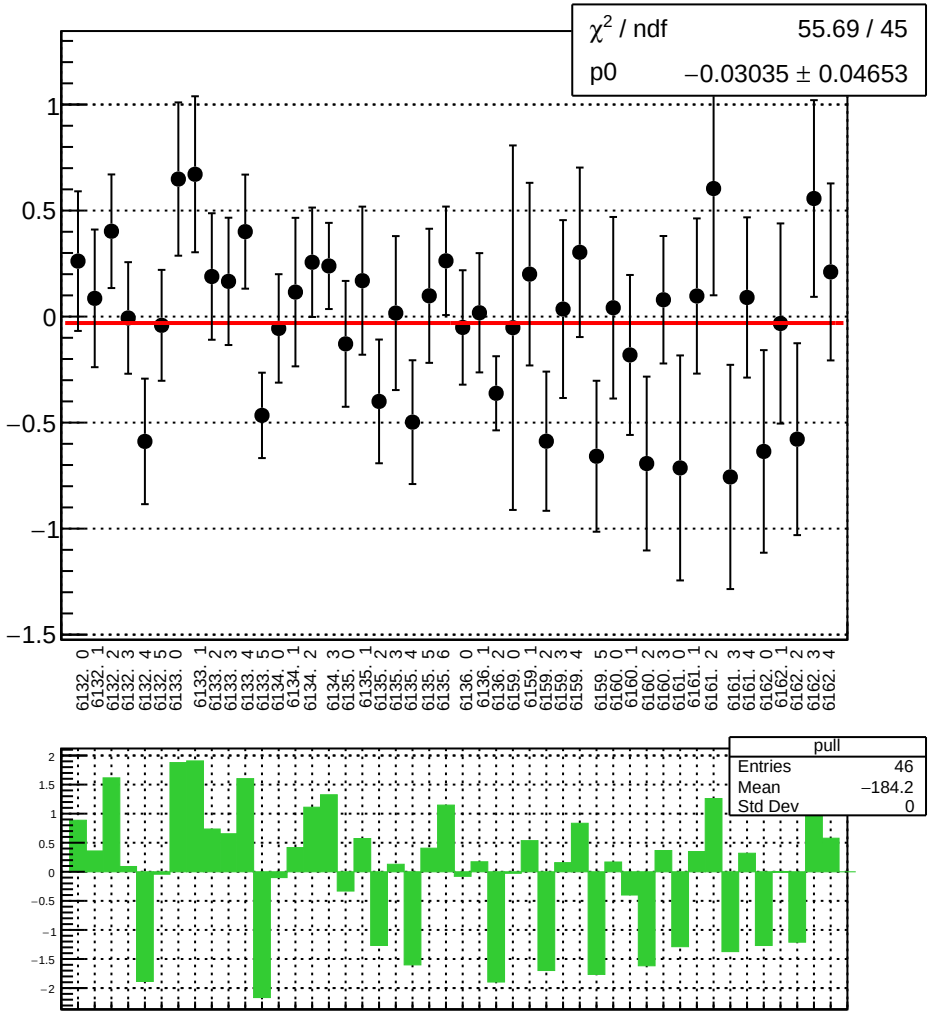
6162. 2
6162. 3
6162. 4

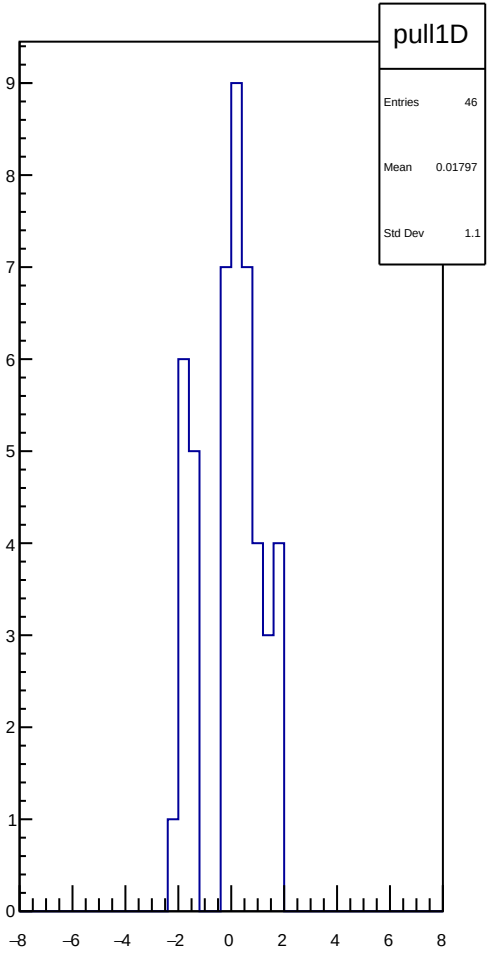

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 55.69 / 45
p0 −0.03035 ± 0.04653
pull
Entries 46
Mean −184.2
Std Dev 0

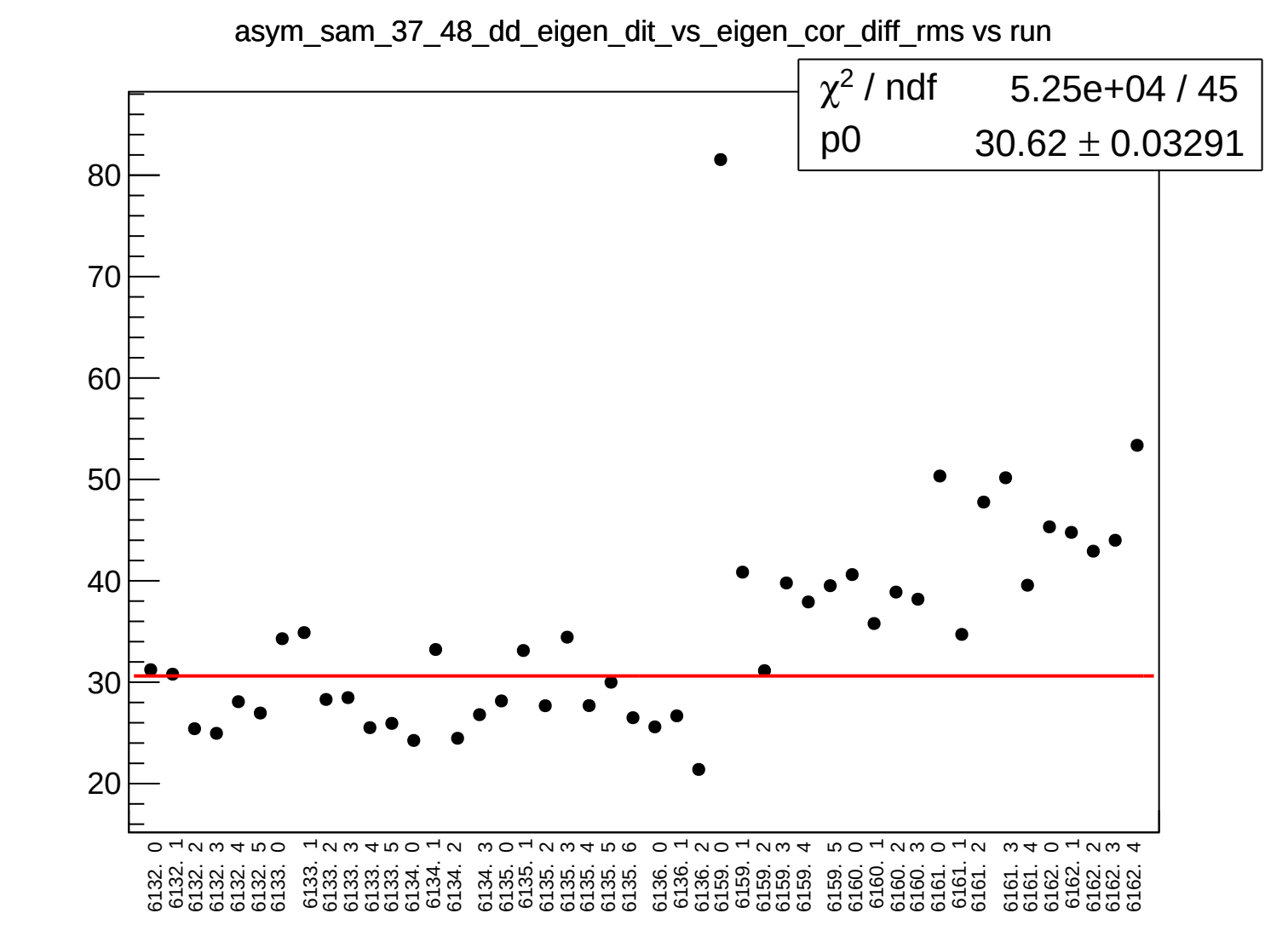

pull1D
Entries 46
Mean 0.01797
Std Dev 1.1

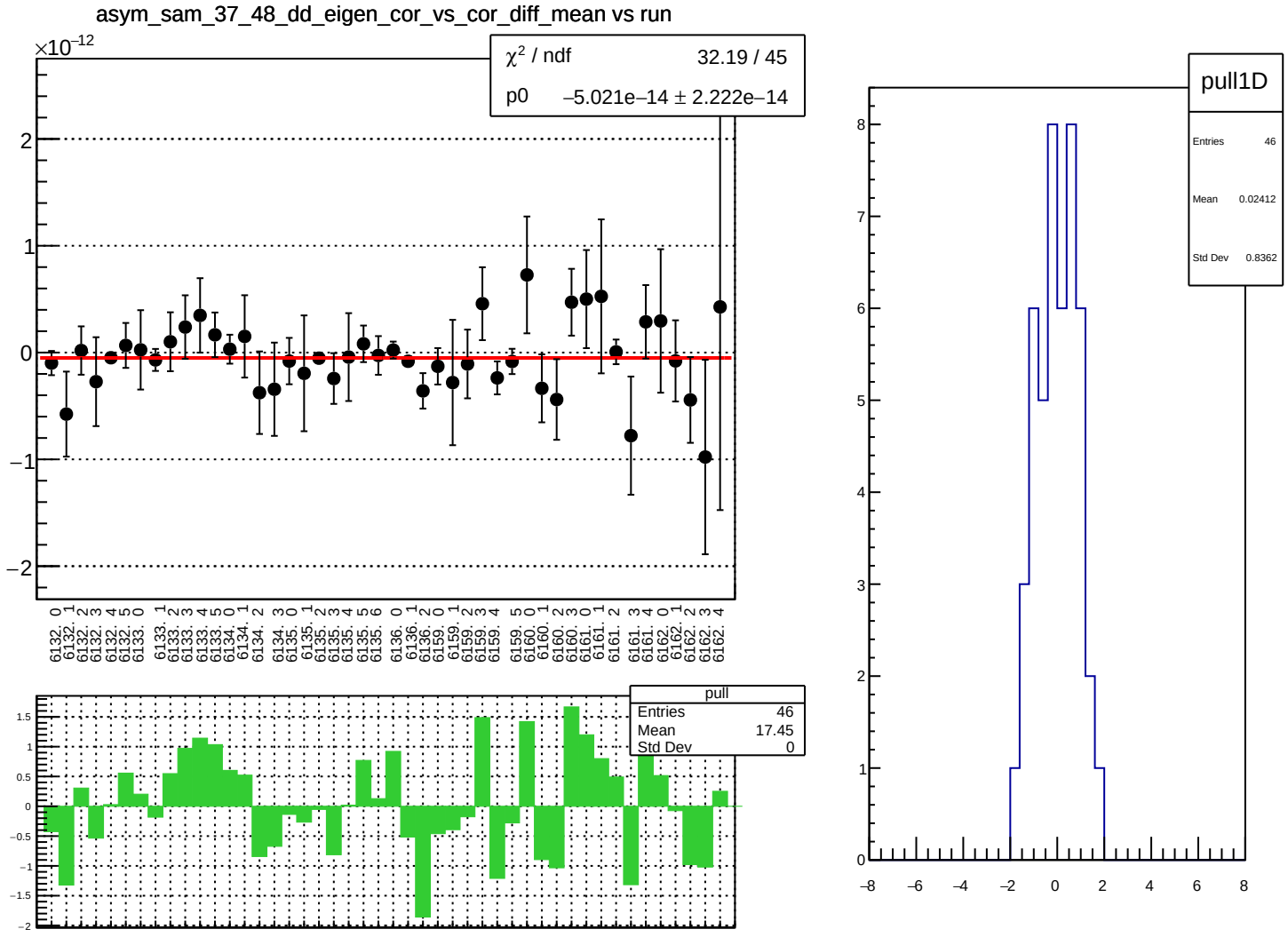

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.25e+04 / 45
p0 30.62 ± 0.03291
80
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

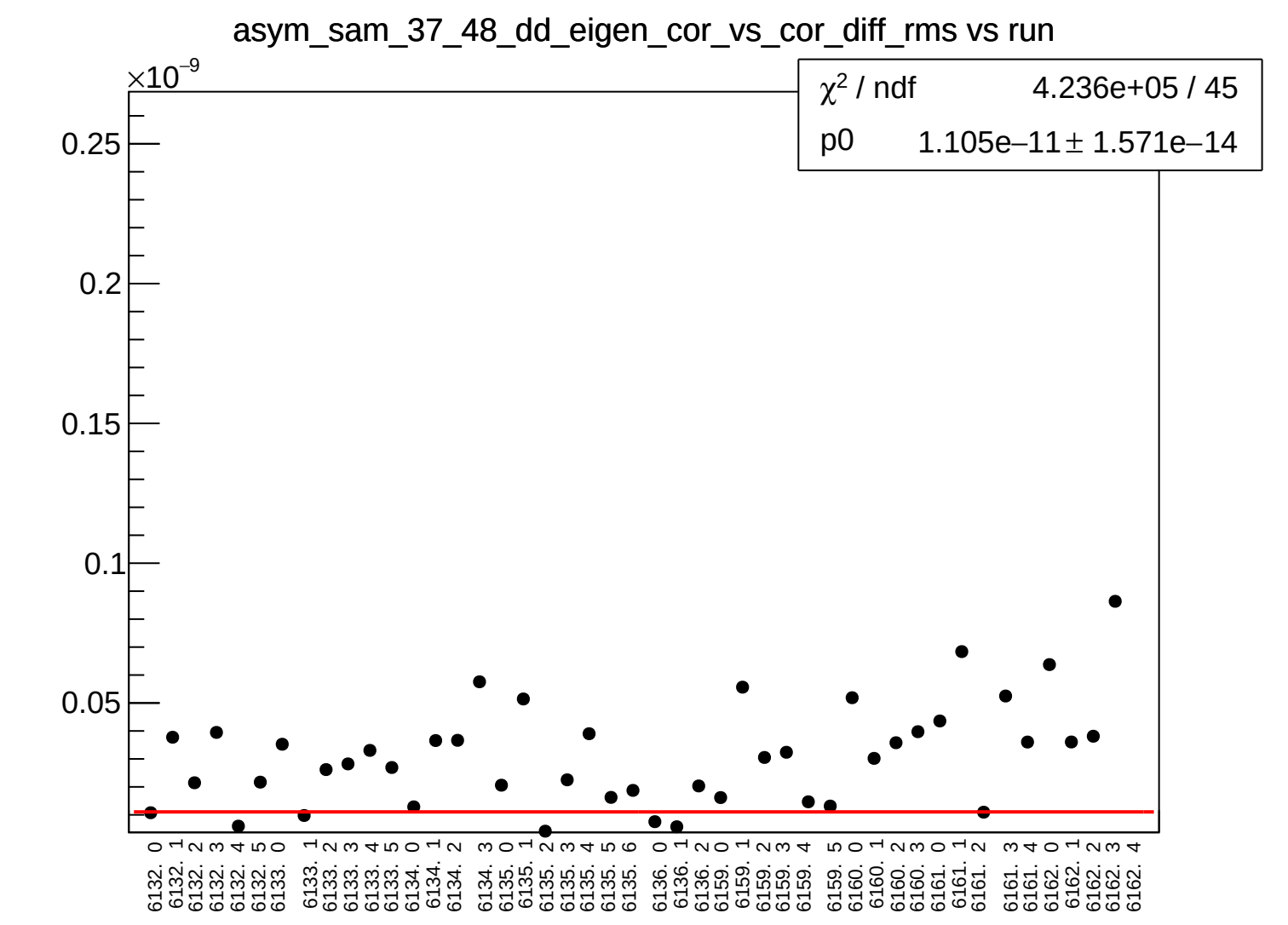
asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

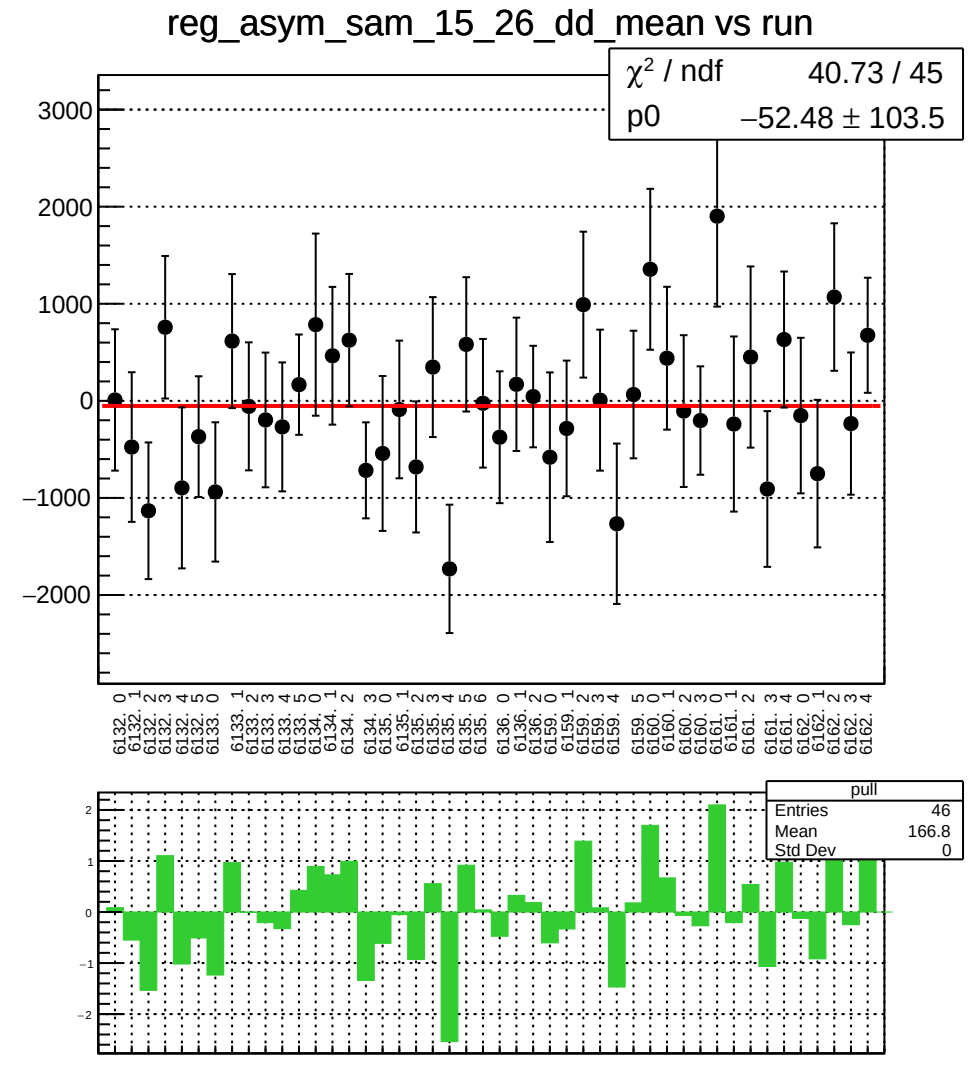


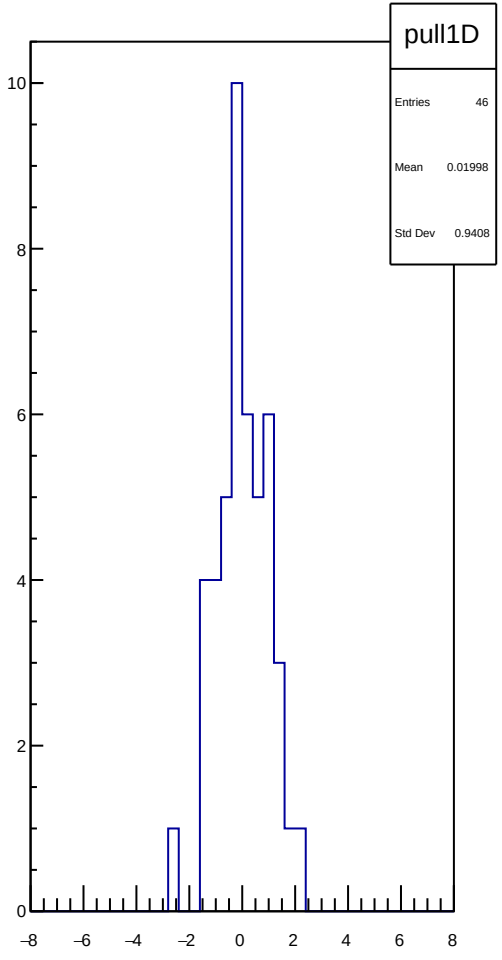


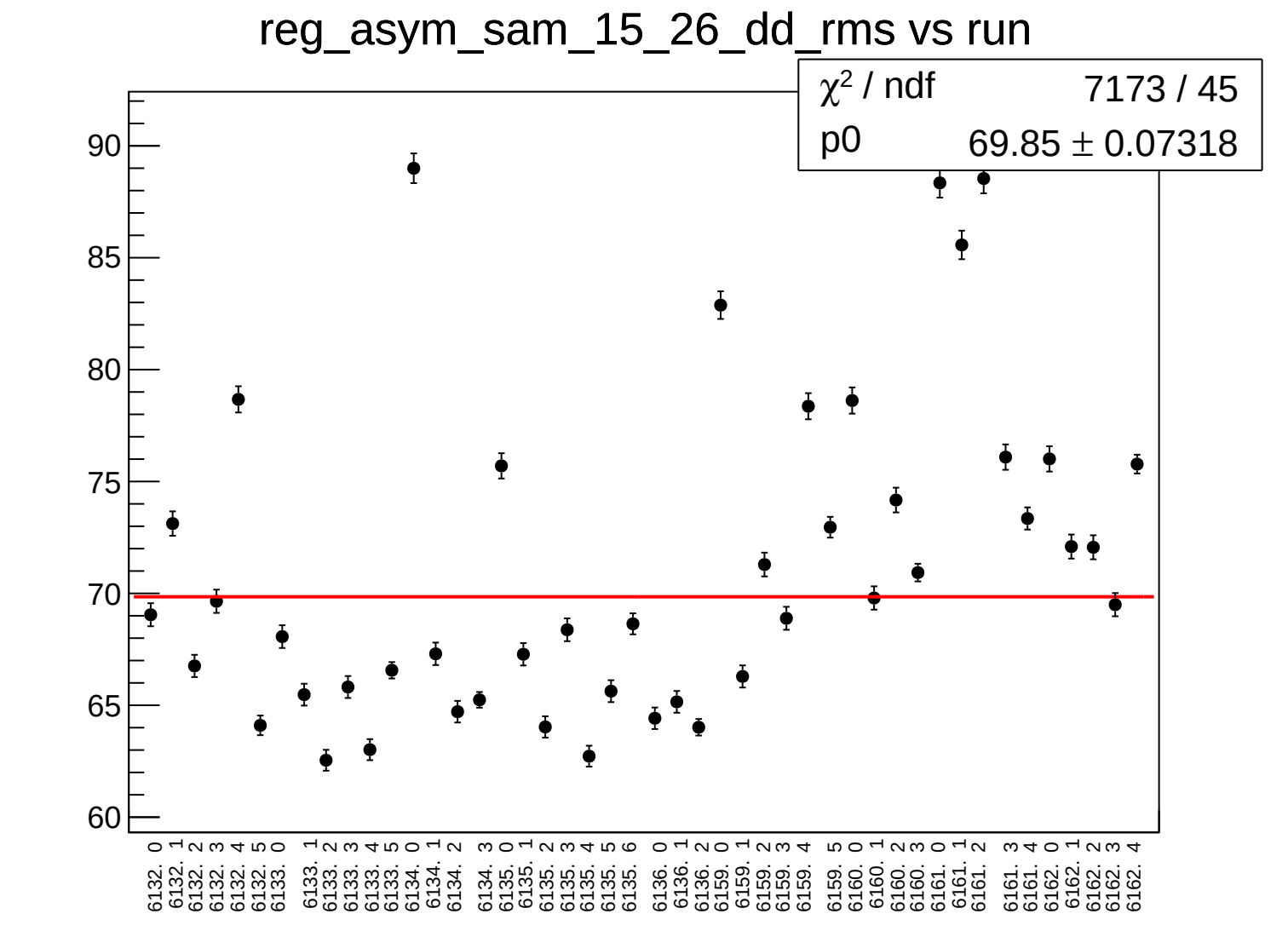

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.25e+04 / 45
p0 30.62 ± 0.03291
80
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.19 / 45
p0 −5.021e−14 ± 2.222e−14
pull
Entries 46
Mean 17.45
Std Dev 0
pull1D
Entries 46
Mean 0.02412
Std Dev 0.8362


asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.236e+05 / 45
p0 1.105e−11 ± 1.571e−14
0.25
0.2
0.15
0.1
0.05
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 40.73 / 45
p0 −52.48 ± 103.5
3000
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 166.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.01998
Std Dev 0.9408
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 7173 / 45
p0 69.85 ± 0.07318
90
85
80
75
70
65
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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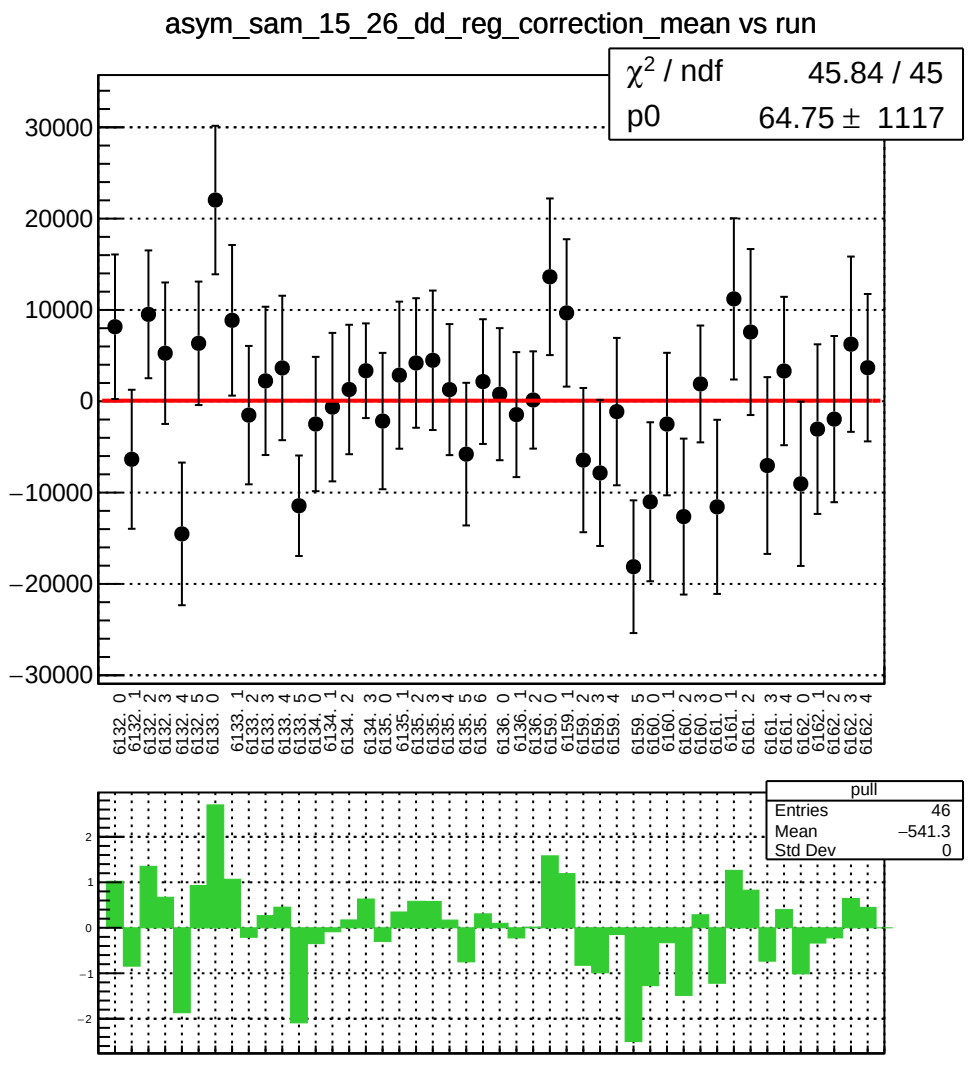
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 45.84 / 45
p0 64.75 ± 1117
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 0
6135. 1
6135. 2
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6135. 4
6135. 5
6135. 6
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6136. 2
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6159. 5
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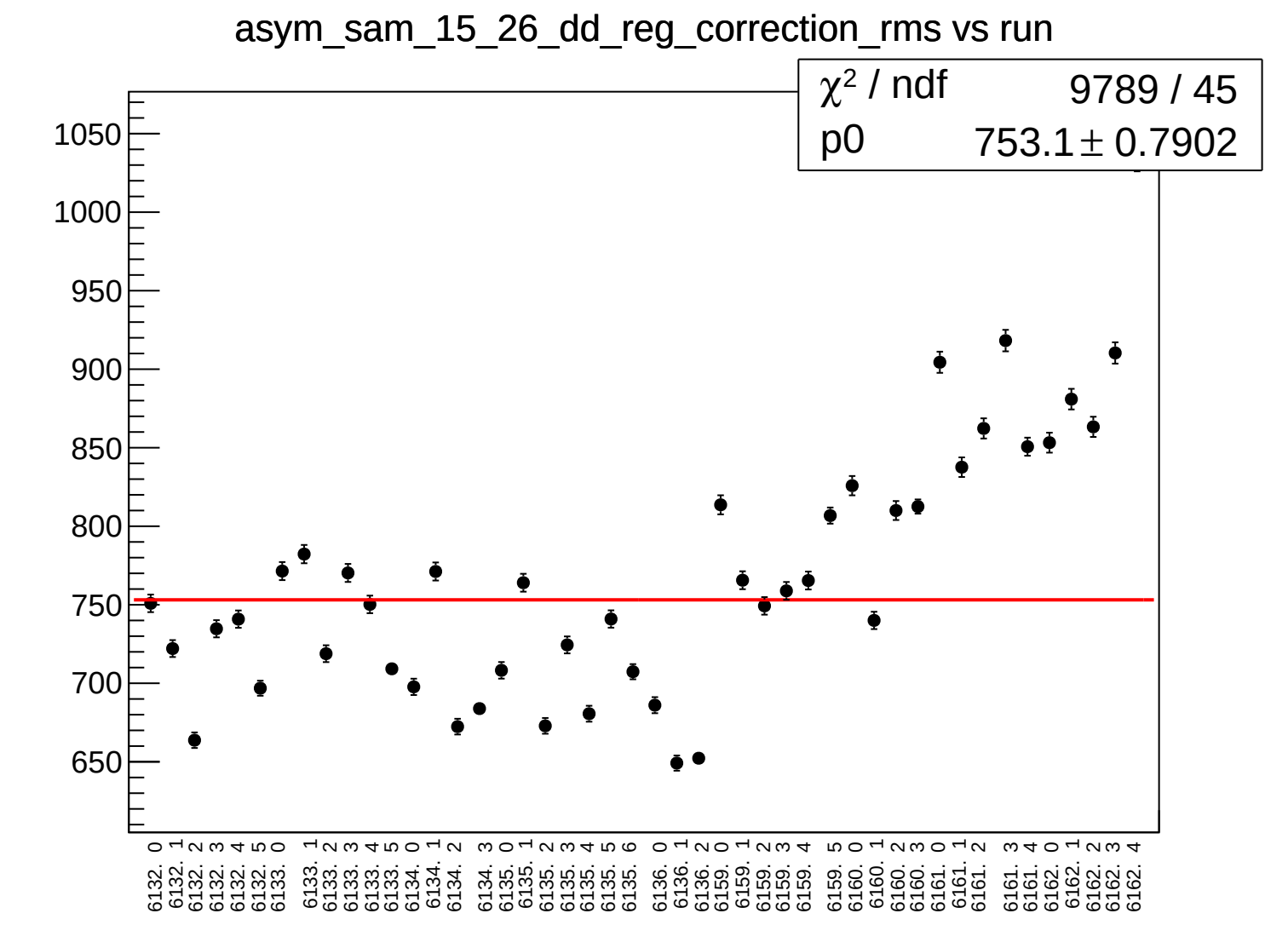
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −541.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.004798
Std Dev 0.9982
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 9789 / 45
p0 753.1 ± 0.7902
1050
1000
950
900
850
800
750
700
650
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6160. 2
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6161. 4
6162. 0
6162. 1
6162. 2
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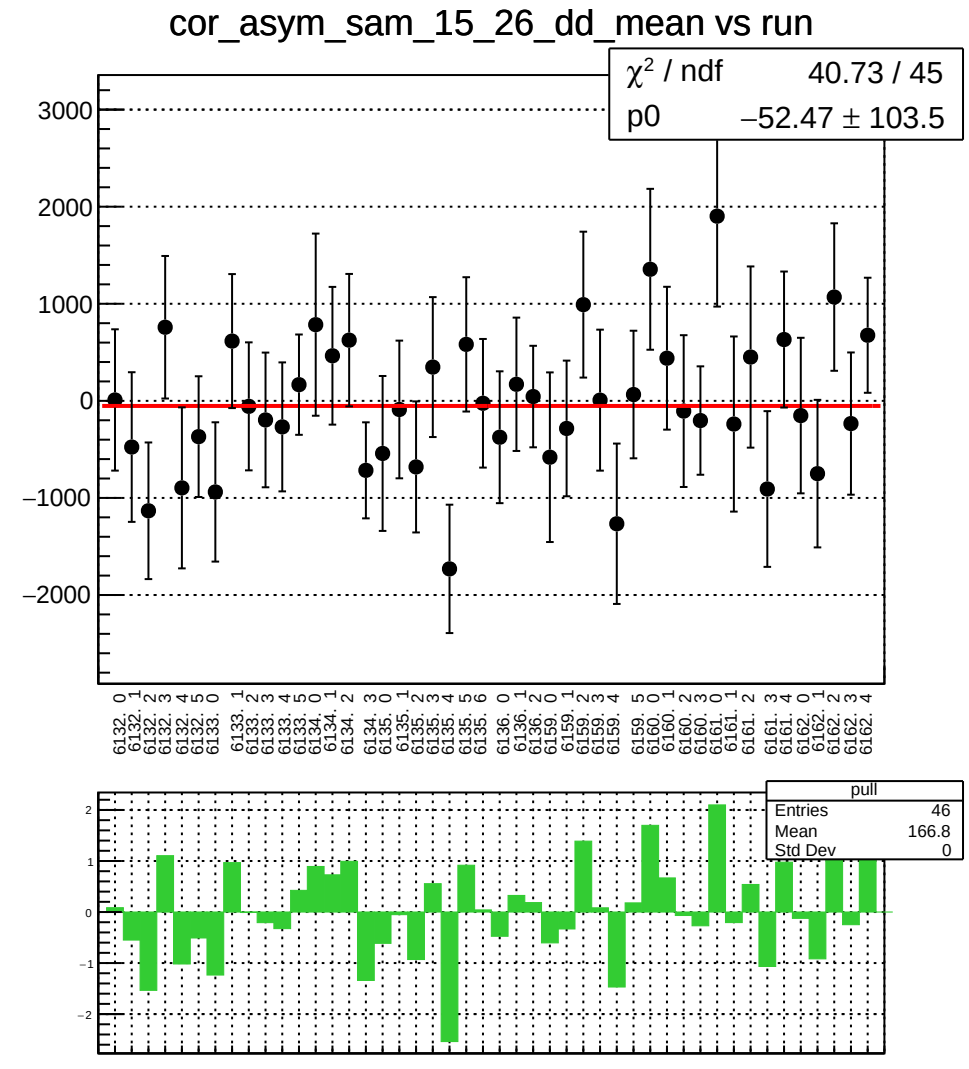
6162. 4


cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 40.73 / 45
p0 −52.47 ± 103.5
3000
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
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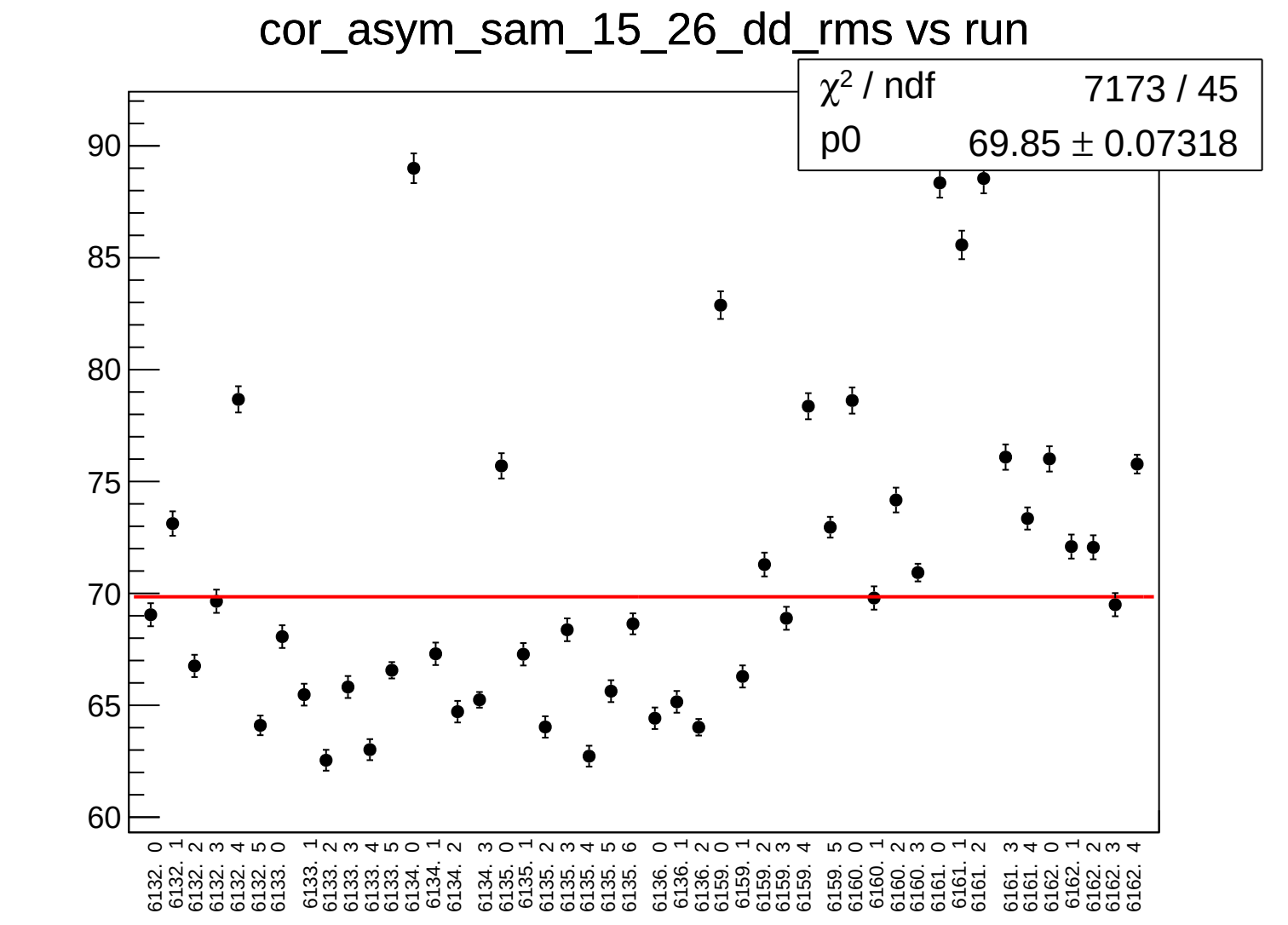
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 166.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.01998
Std Dev 0.9408
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 7173 / 45
p0 69.85 ± 0.07318
90
85
80
75
70
65
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
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6160. 1
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6162. 0
6162. 1
6162. 2
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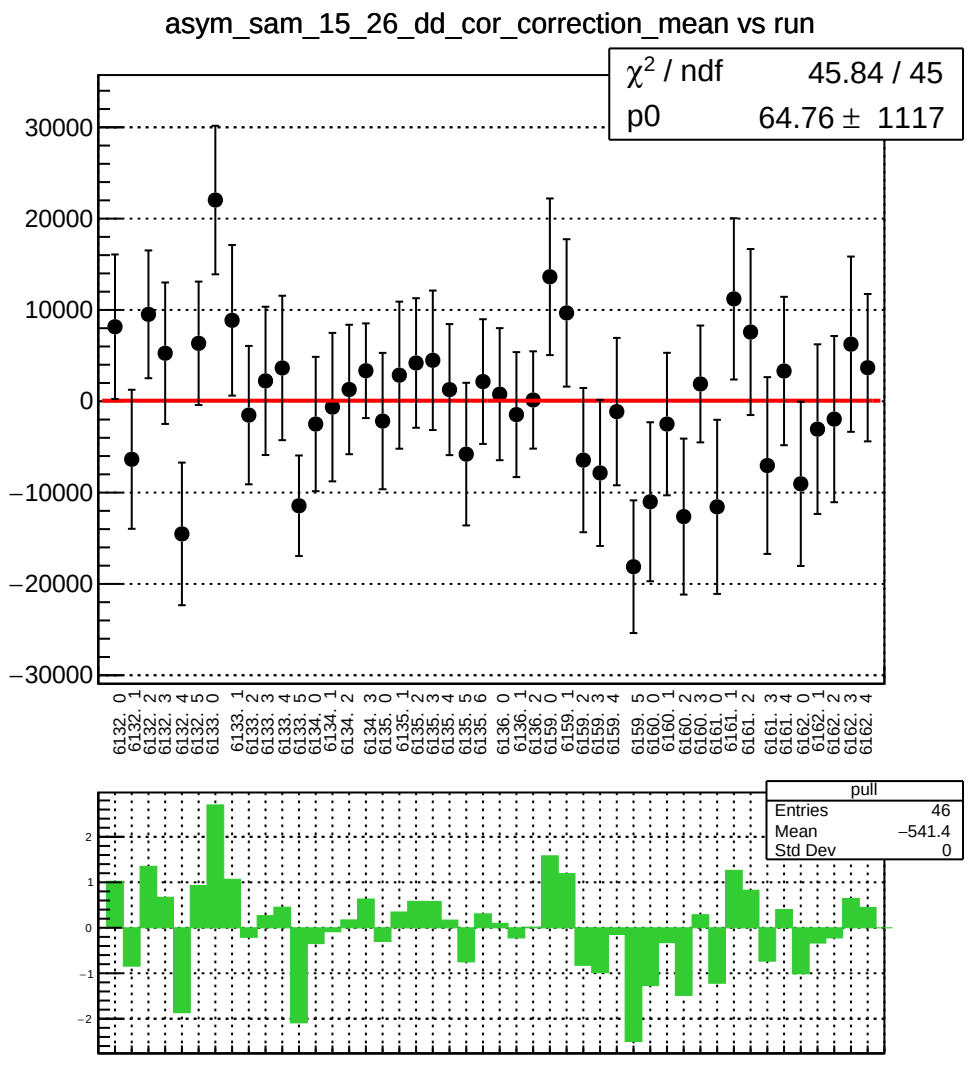
6162. 4


asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 45.84 / 45
p0 64.76 ± 1117
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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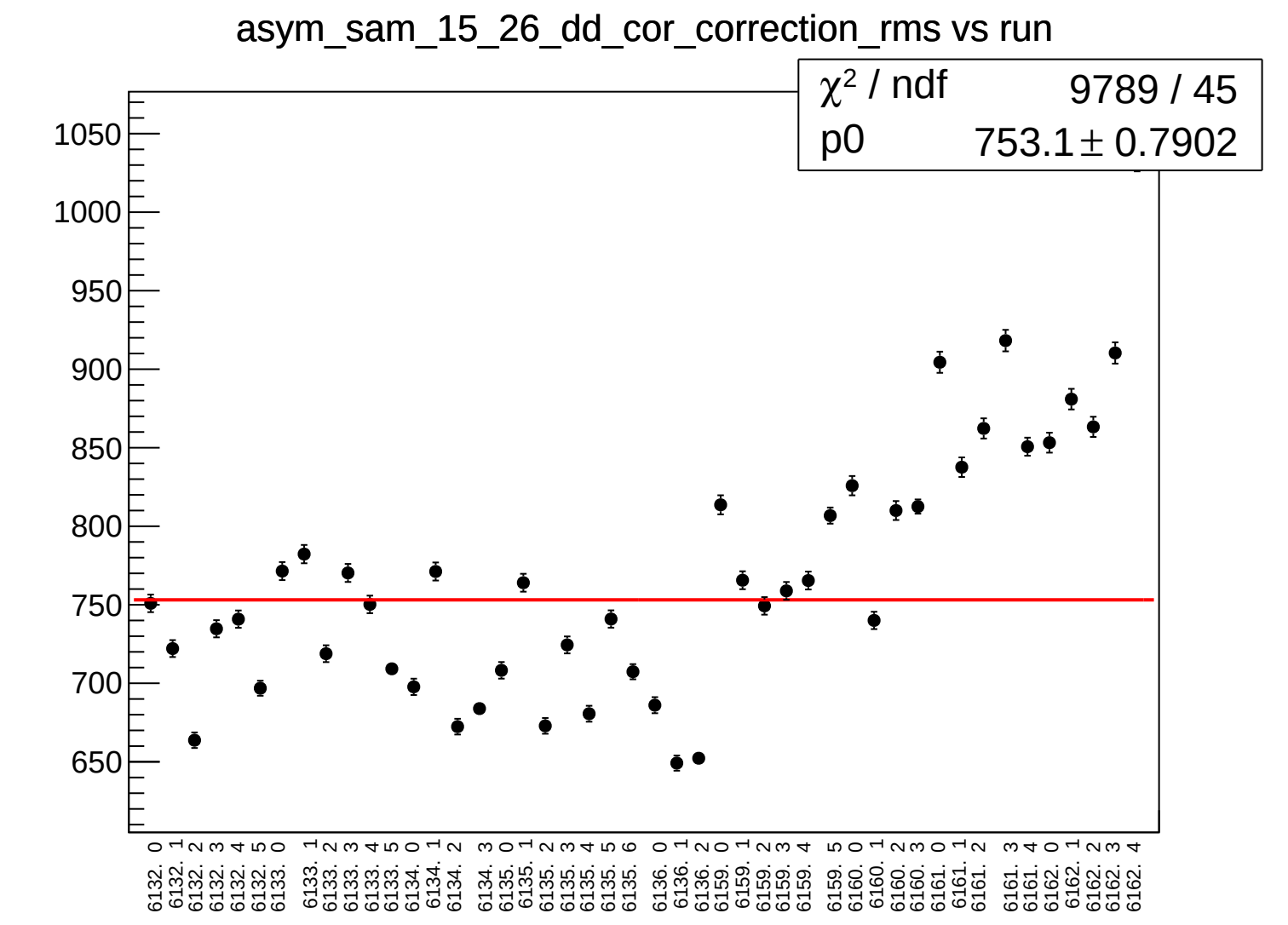
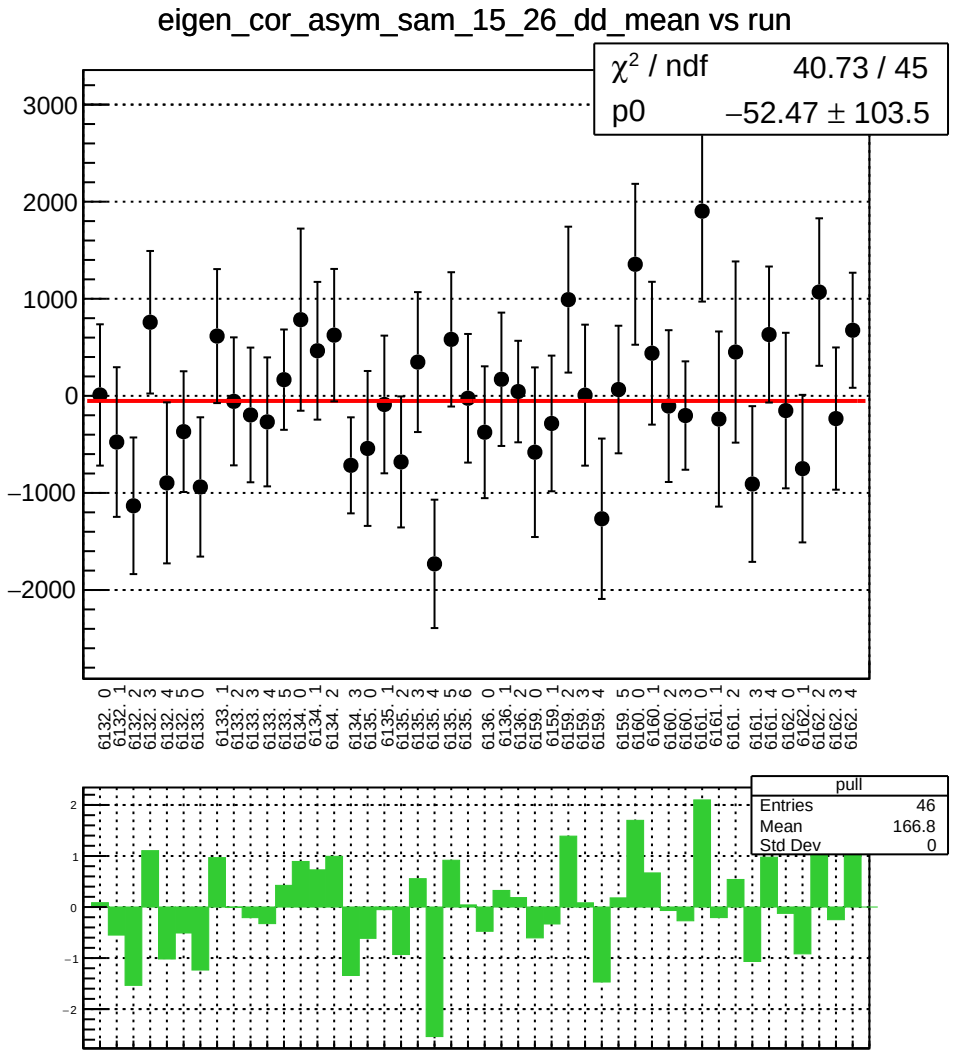
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −541.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.004798
Std Dev 0.9982
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 9789 / 45
p0 753.1 ± 0.7902
1050
1000
950
900
850
800
750
700
650
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 40.73 / 45
p0 −52.47 ± 103.5
3000
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
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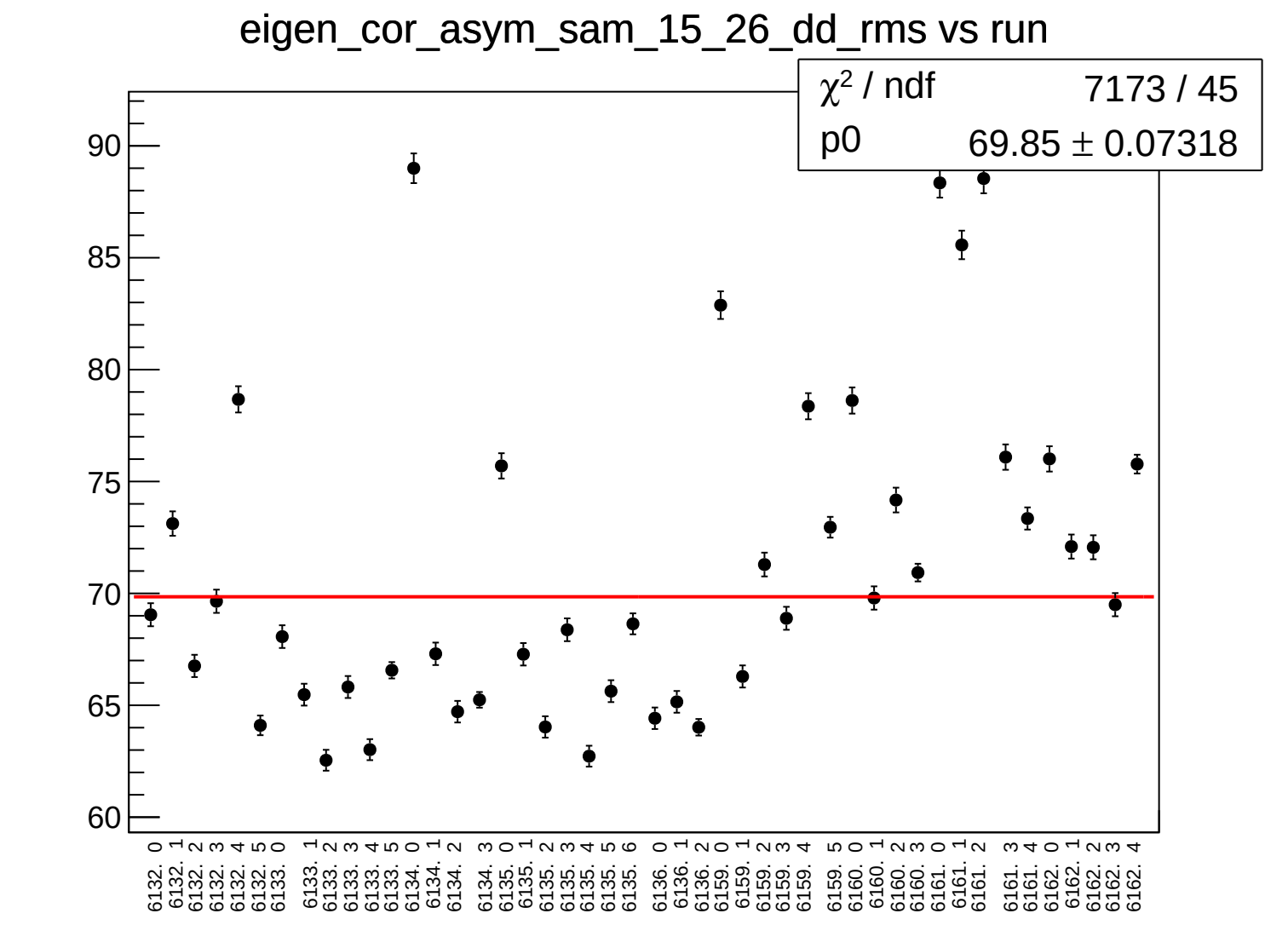
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 166.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.01998
Std Dev 0.9408
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 7173 / 45
p0 69.85 ± 0.07318
90
85
80
75
70
65
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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
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6159. 2
6159. 3
6159. 4
6159. 5
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6160. 1
6160. 2
6160. 3
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6161. 2
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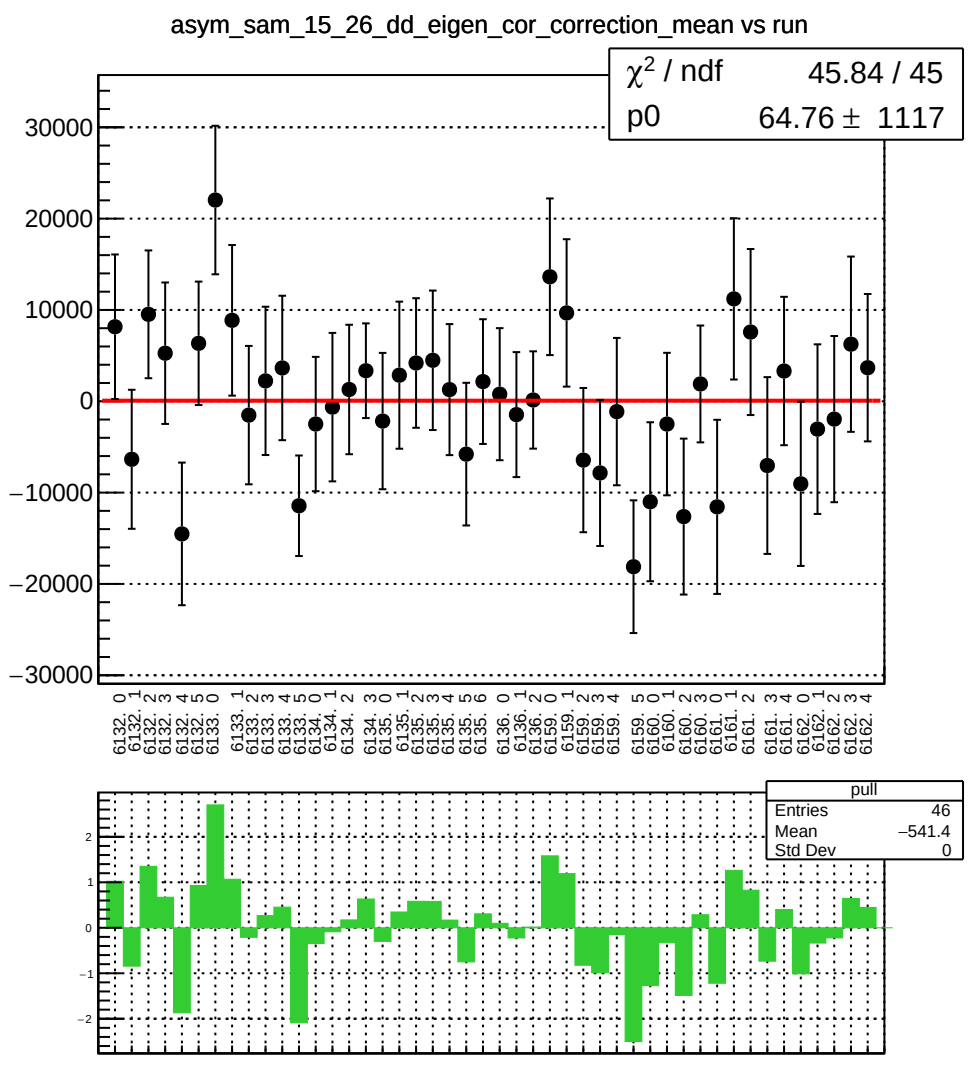
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 45.84 / 45
p0 64.76 ± 1117
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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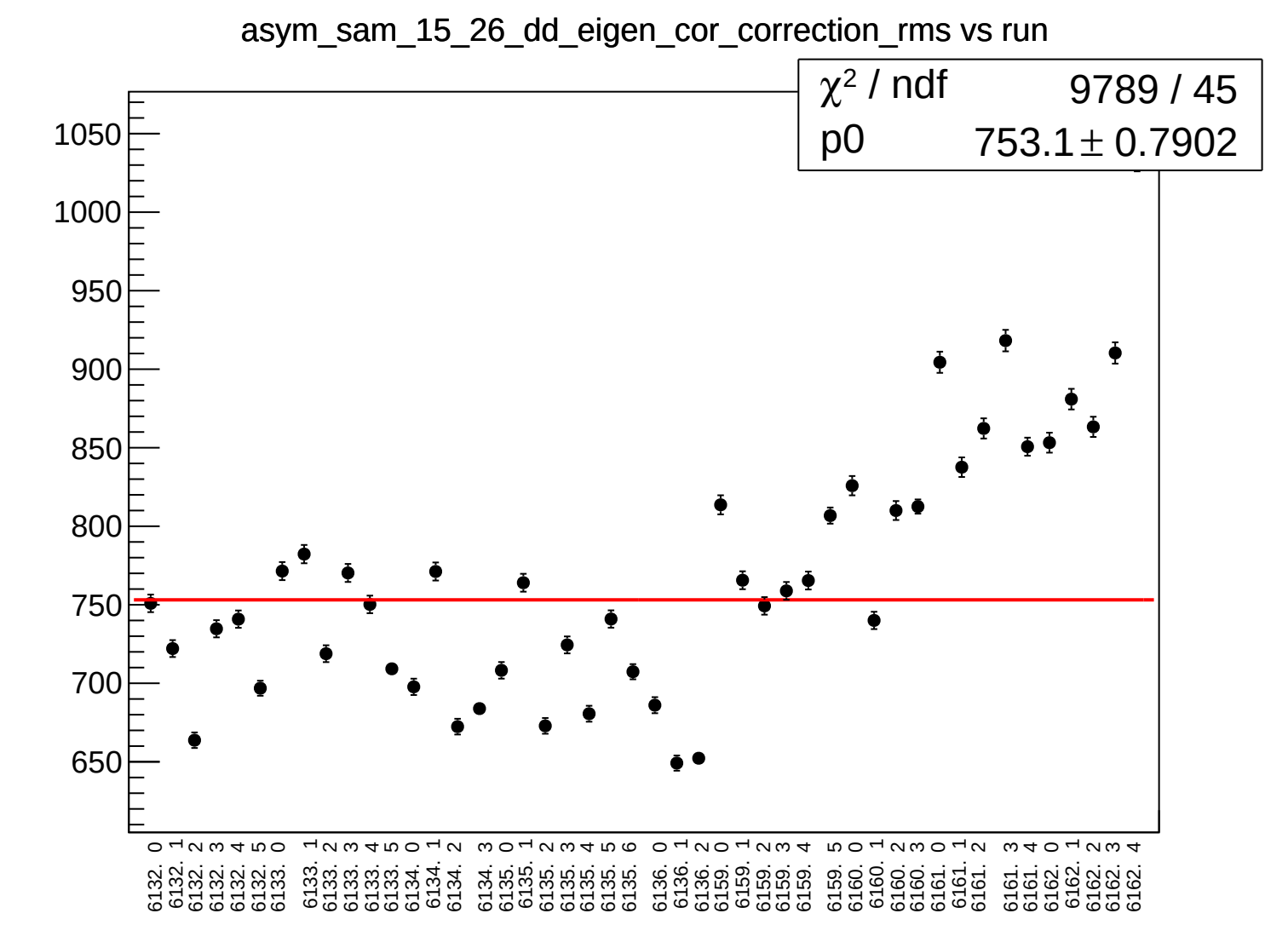
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −541.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.004798
Std Dev 0.9982
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 9789 / 45
p0 753.1 ± 0.7902
1050
1000
950
900
850
800
750
700
650
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 3
6161. 4
6162. 0
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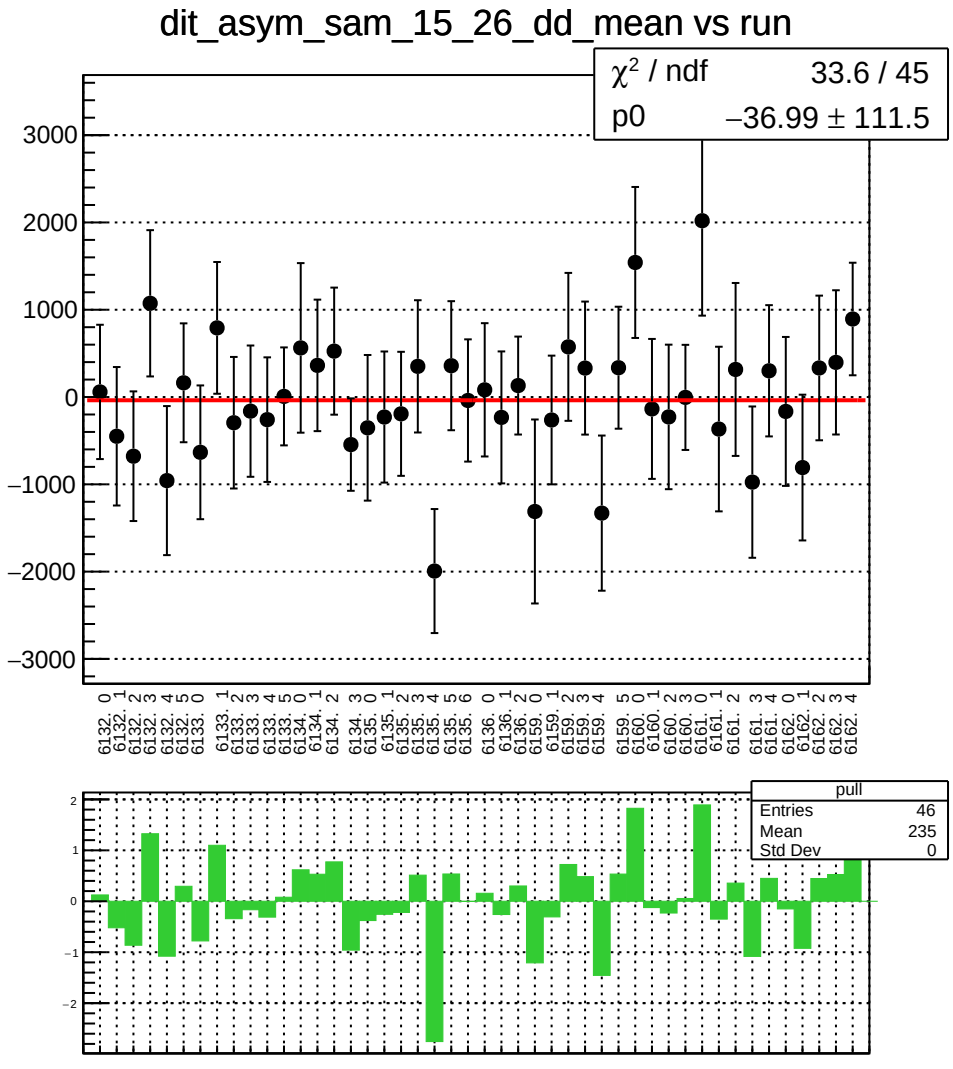
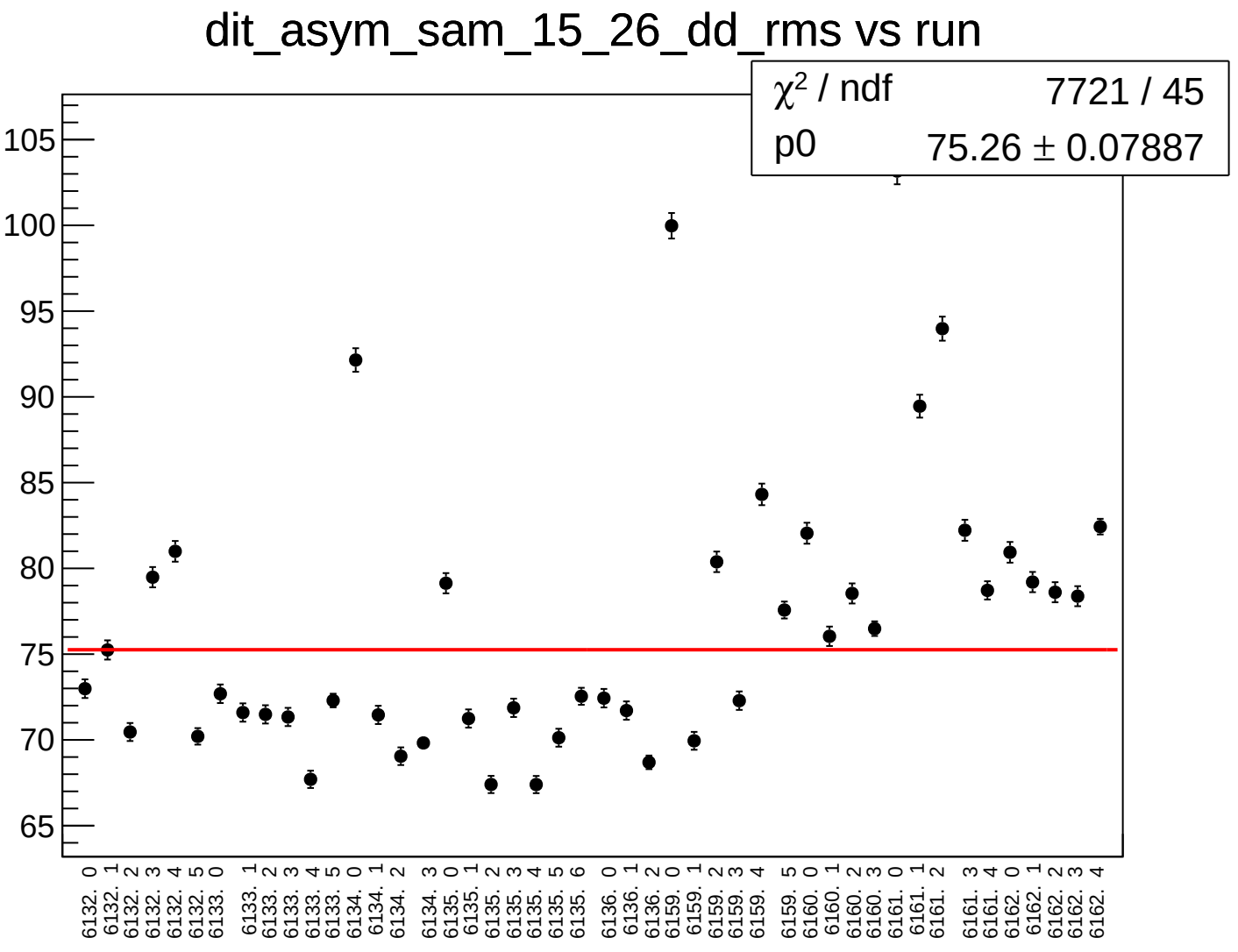
6162. 2
6162. 3
6162. 4


dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 33.6 / 45
p0 −36.99 ± 111.5
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 235
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.007899
Std Dev 0.8546
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 7721 / 45
p0 75.26 ± 0.07887
105
100
95
90
85
80
75
70
65
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6135. 1
6135. 2
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6135. 4
6135. 5
6135. 6
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6136. 2
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6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
6161. 3
6161. 4
6162. 0
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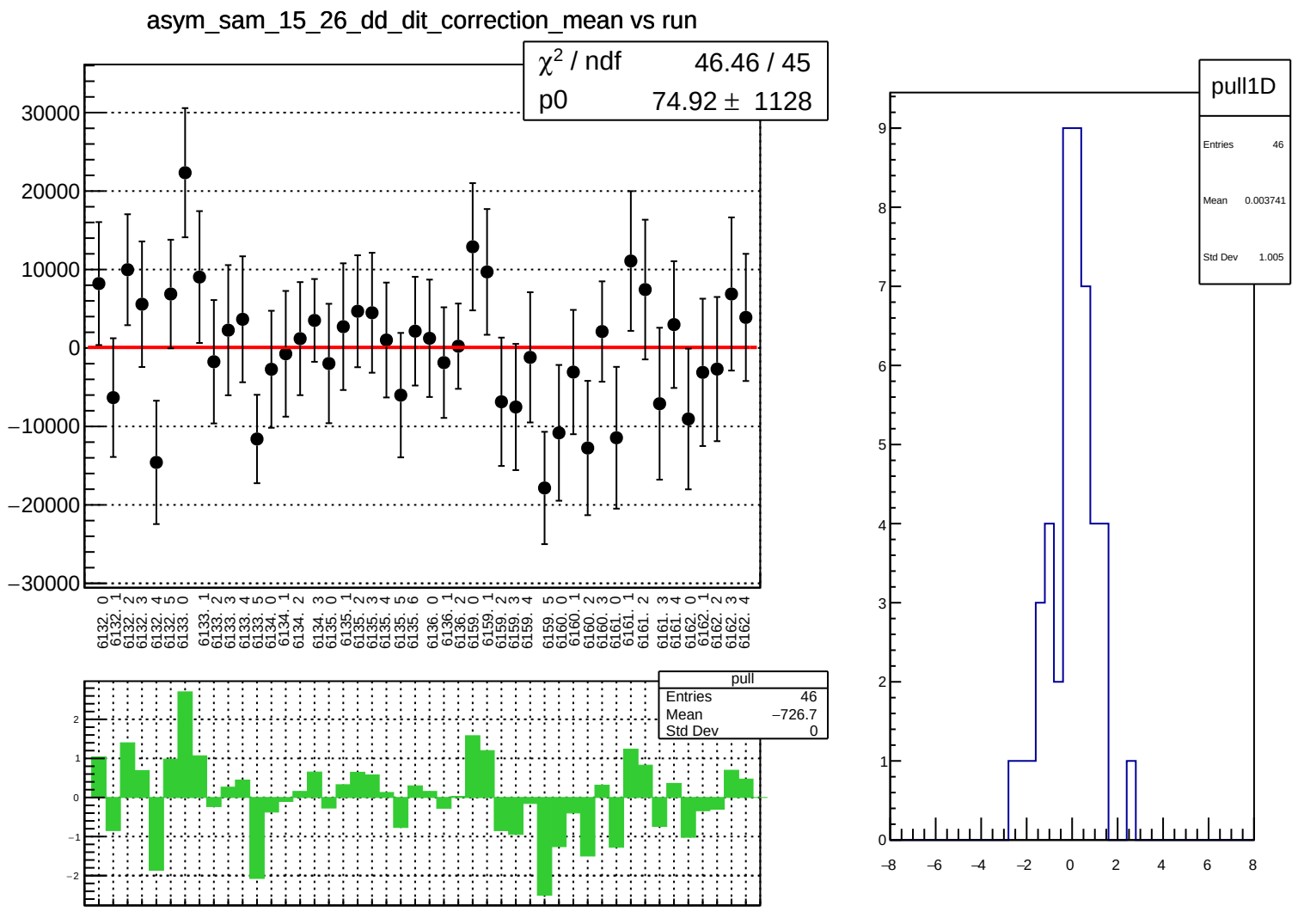
6162. 4


asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 46.46 / 45
p0 74.92 ± 1128
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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6133. 4
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6134. 2
6134. 3
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6135. 4
6135. 5
6135. 6
6136. 0
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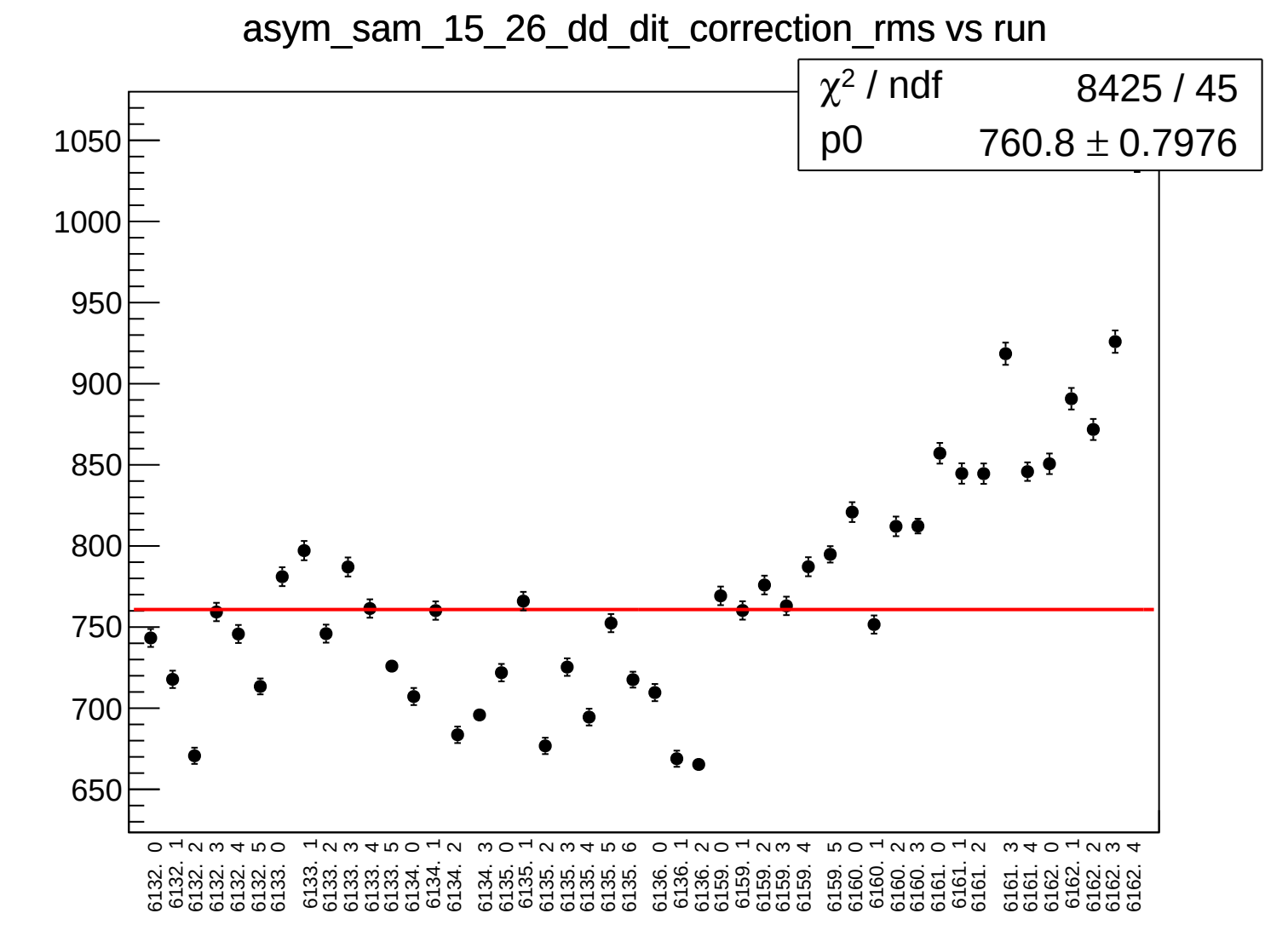
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −726.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.003741
Std Dev 1.005
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 8425 / 45
p0 760.8 ± 0.7976
1050
1000
950
900
850
800
750
700
650
6132. 0
6132. 1
6132. 2
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6132. 4
6132. 5
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6133. 2
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6134. 2
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6135. 3
6135. 4
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6135. 6
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6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
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6161. 4
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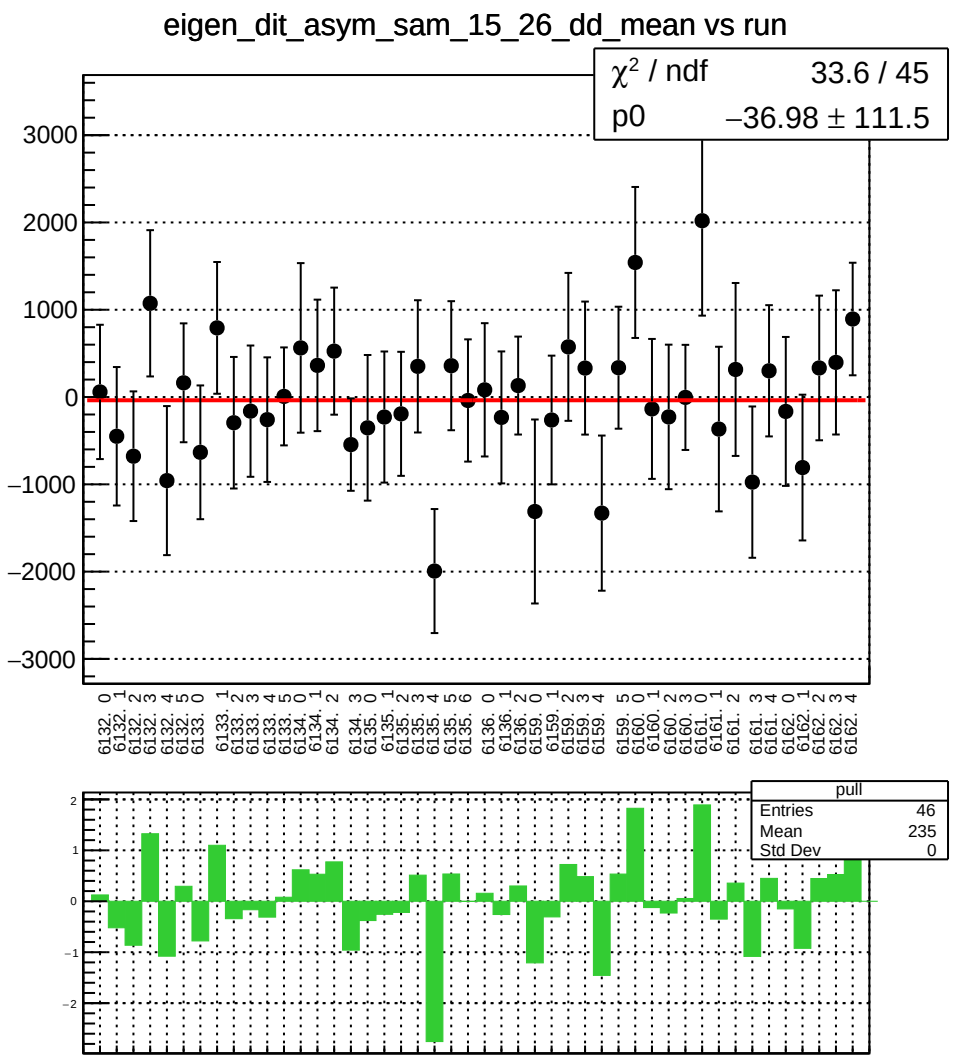
6162. 1
6162. 2
6162. 3
6162. 4


eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 33.6 / 45
p0 −36.98 ± 111.5
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
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6135. 2
6135. 3
6135. 4
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6135. 6
6136. 0
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6136. 2
6159. 0
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6159. 2
6159. 3
6159. 4
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6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
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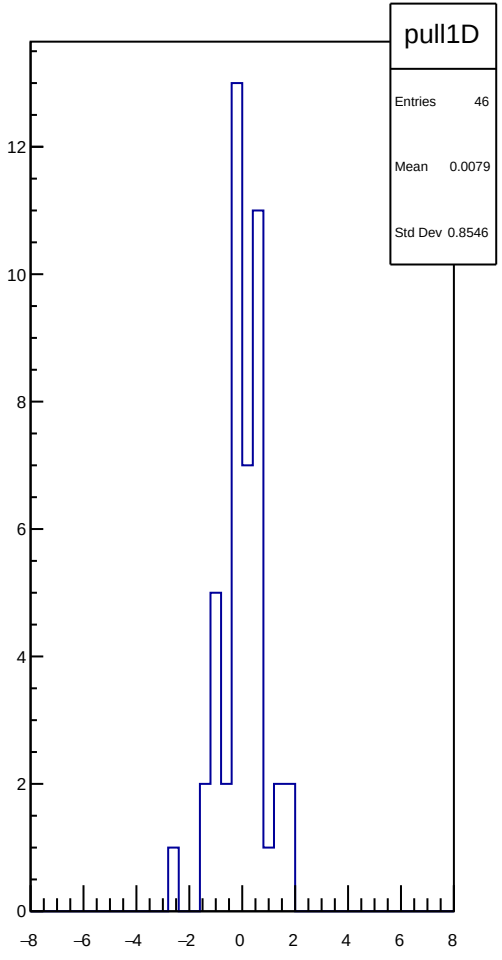
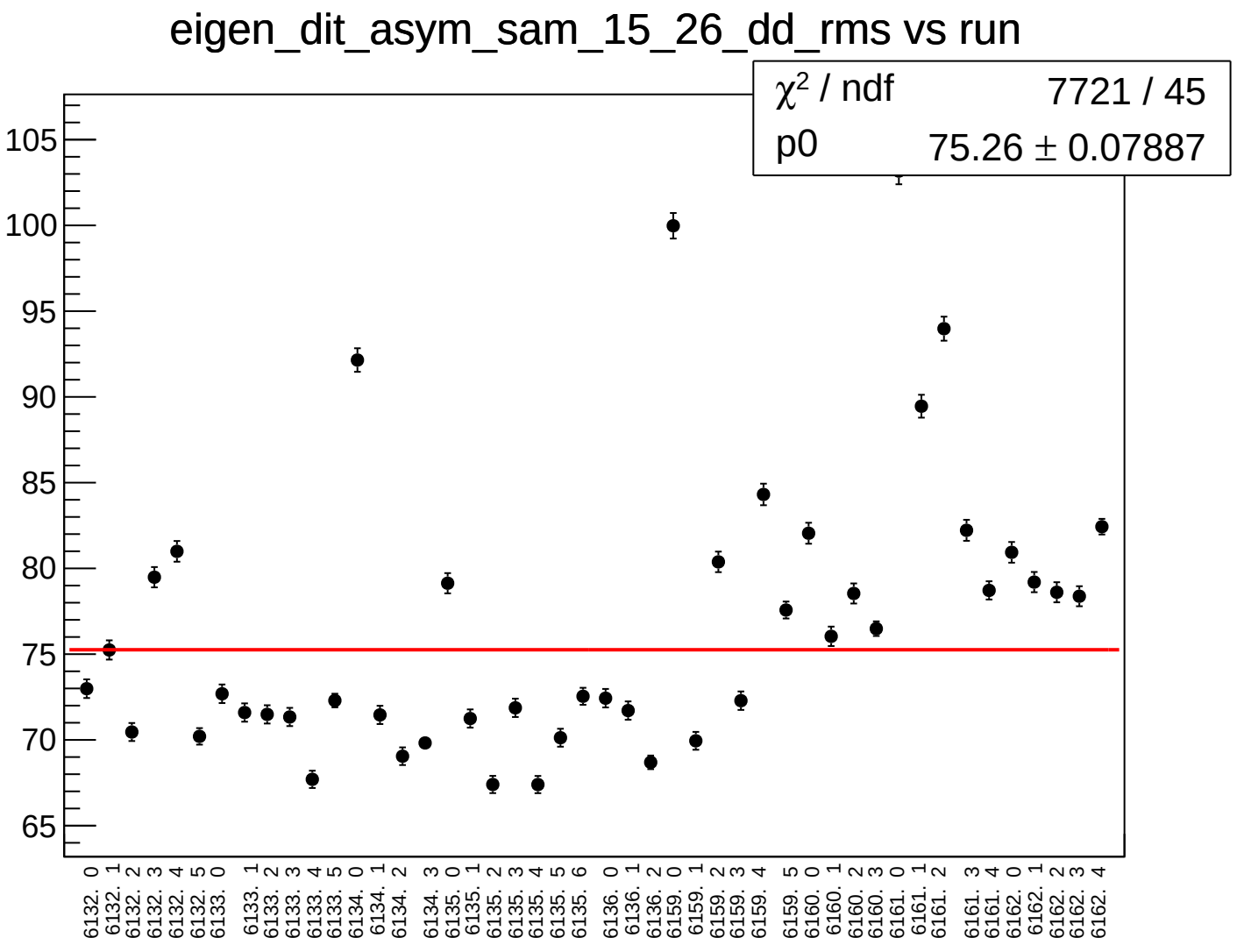
6162. 3
6162. 4
pull
Entries 46
Mean 235
Std Dev 0
2
1
0
−1
−2




eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 7721 / 45
p0 75.26 ± 0.07887
105
100
95
90
85
80
75
70
65
6132. 0
6132. 1
6132. 2
6132. 3
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6132. 5
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6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
6161. 3
6161. 4
6162. 0
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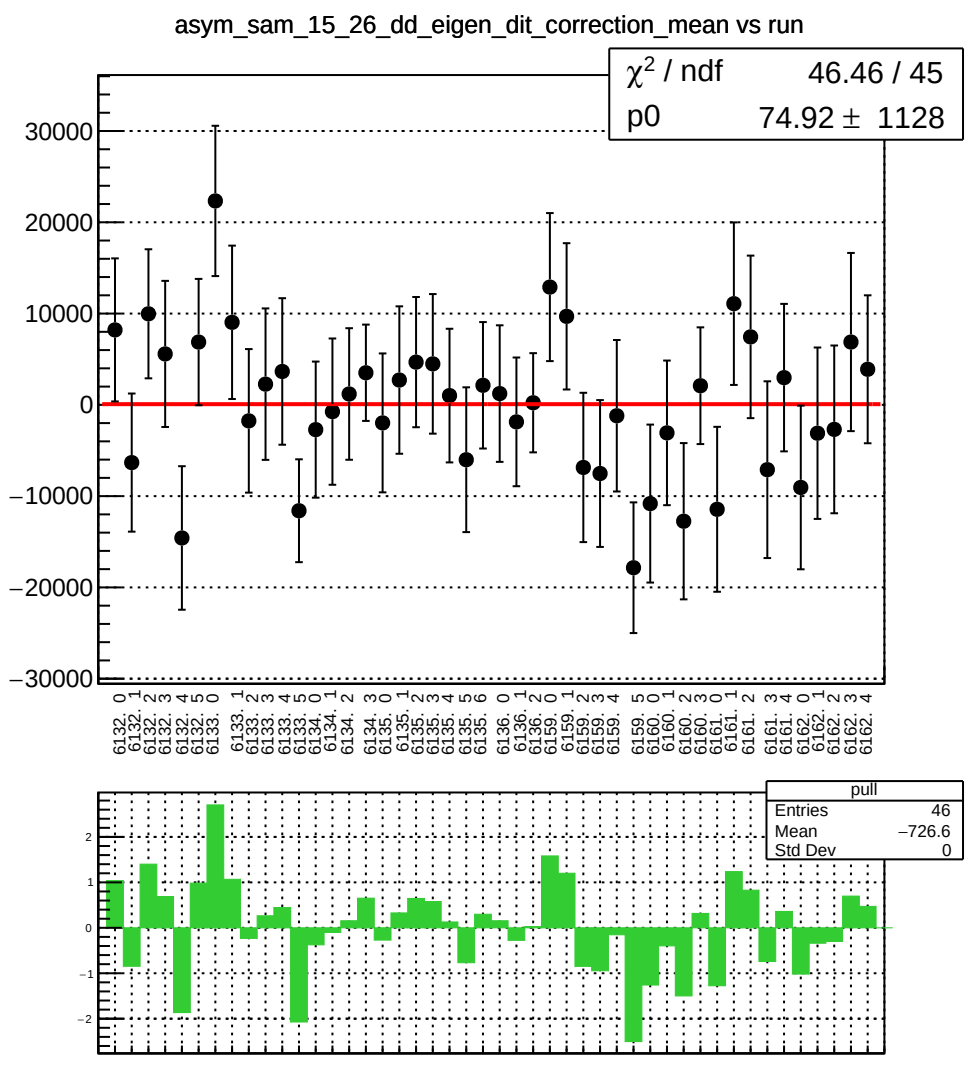
6162. 4


asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 46.46 / 45
p0 74.92 ± 1128
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
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6133. 5
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6134. 1
6134. 2
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6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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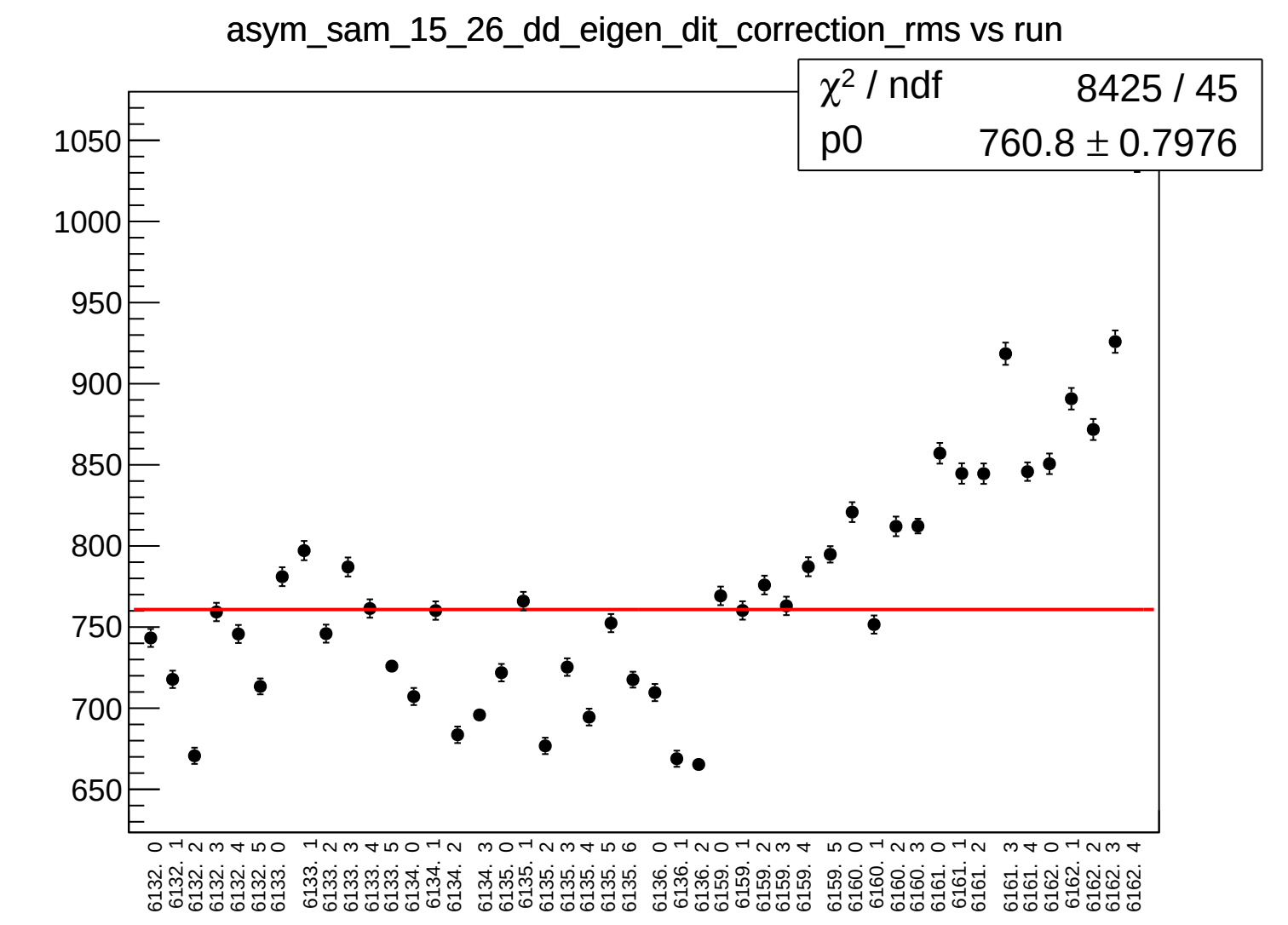
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −726.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.003742
Std Dev 1.005
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 8425 / 45
p0 760.8 ± 0.7976
1050
1000
950
900
850
800
750
700
650
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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6135. 1
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6160. 1
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6162. 0
6162. 1
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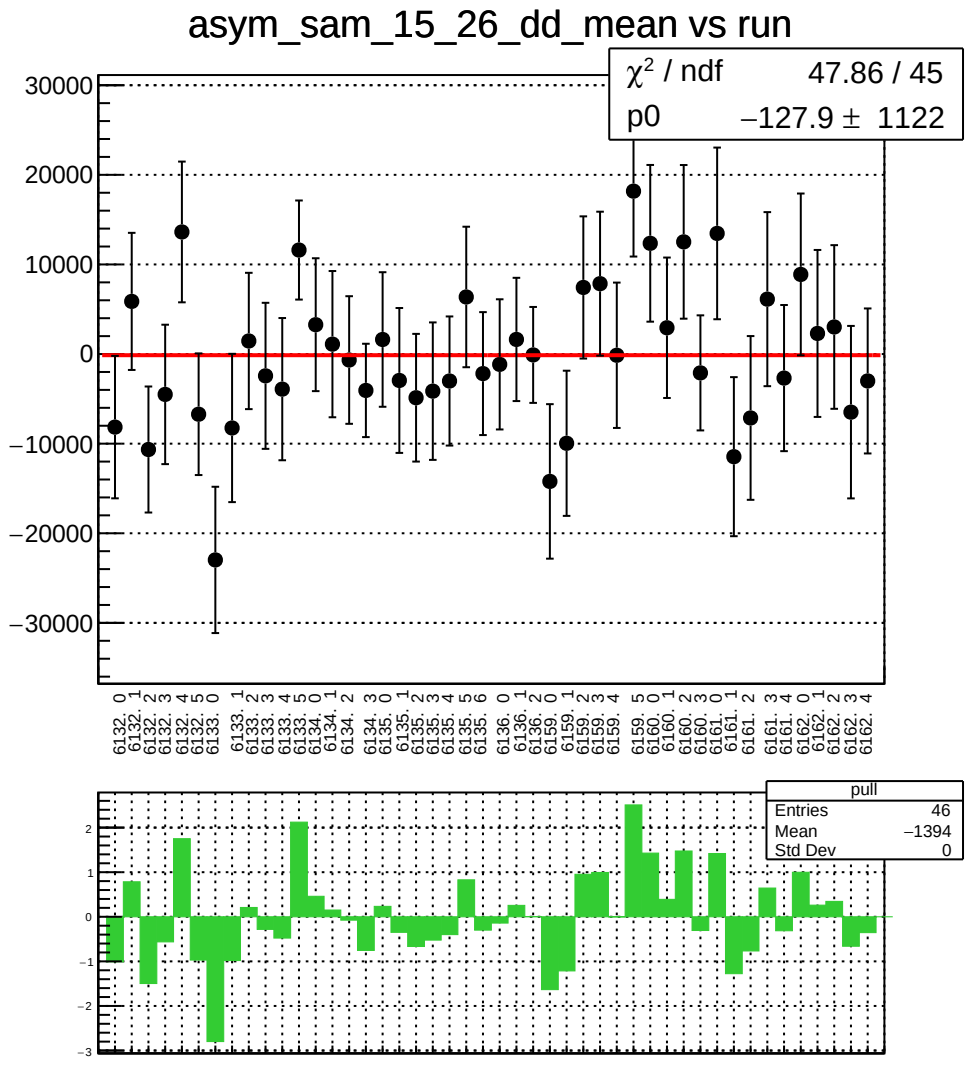
6162. 3
6162. 4


asym_sam_15_26_dd_mean vs run
χ² / ndf 47.86 / 45
p0 −127.9 ± 1122
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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6134. 2
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6135. 2
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6136. 2
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6160. 0
6160. 1
6160. 2
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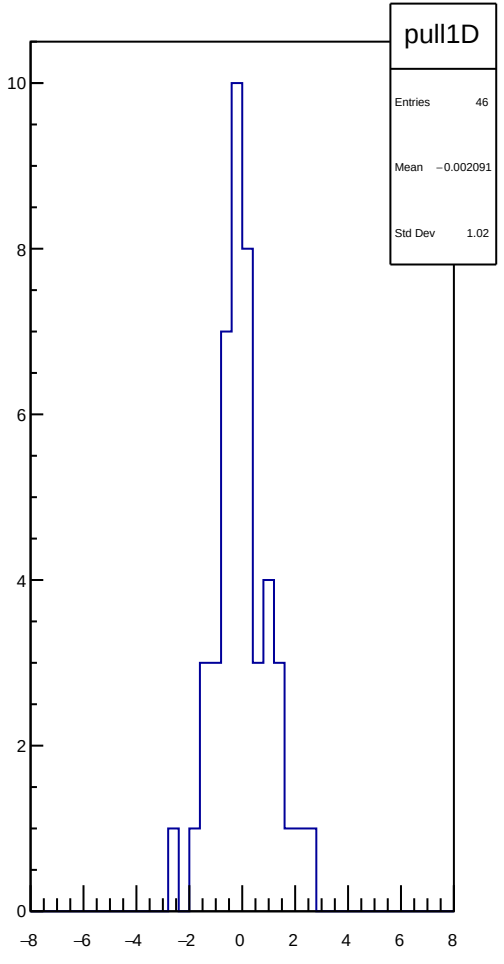
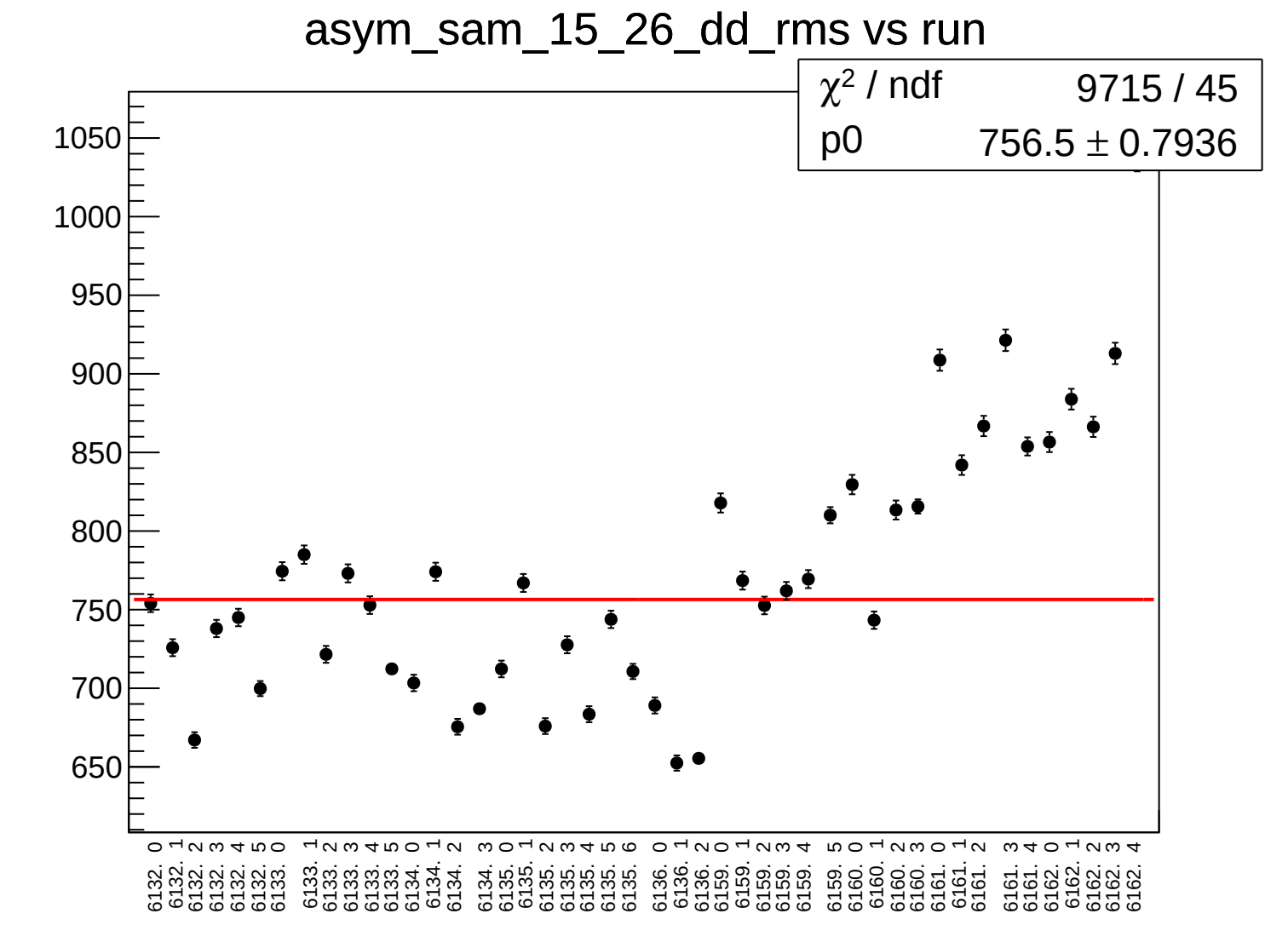
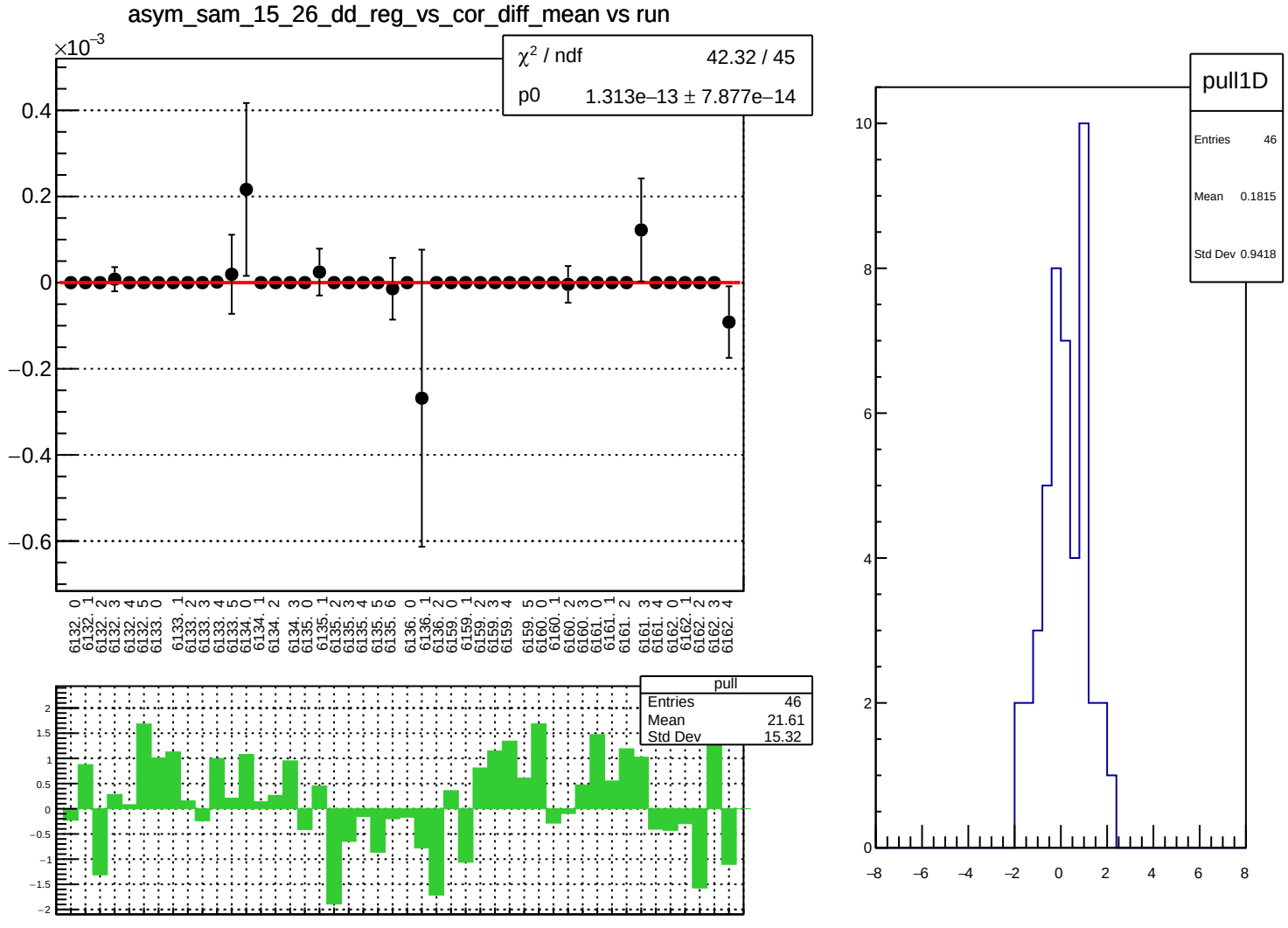
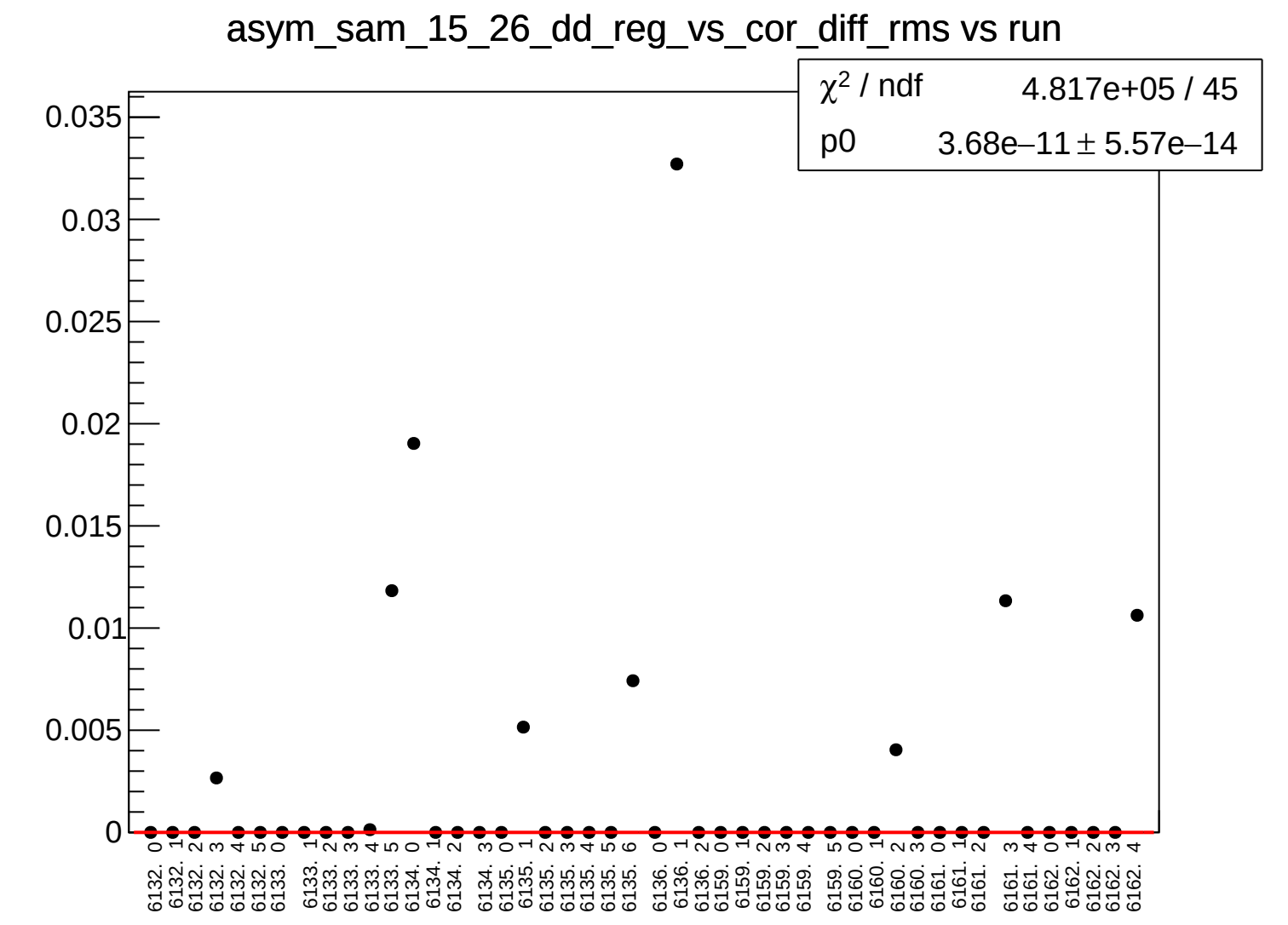
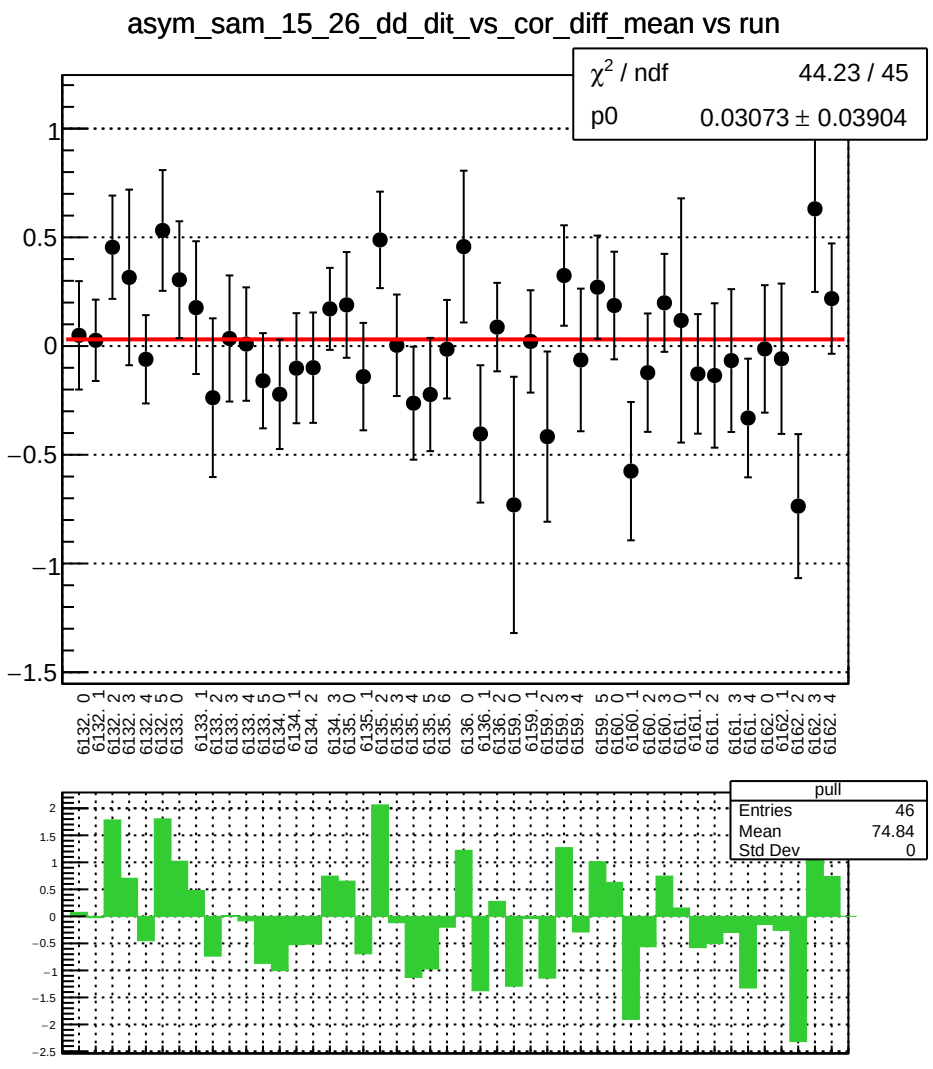
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1394
Std Dev 0
2
1
0
−1
−2
−3

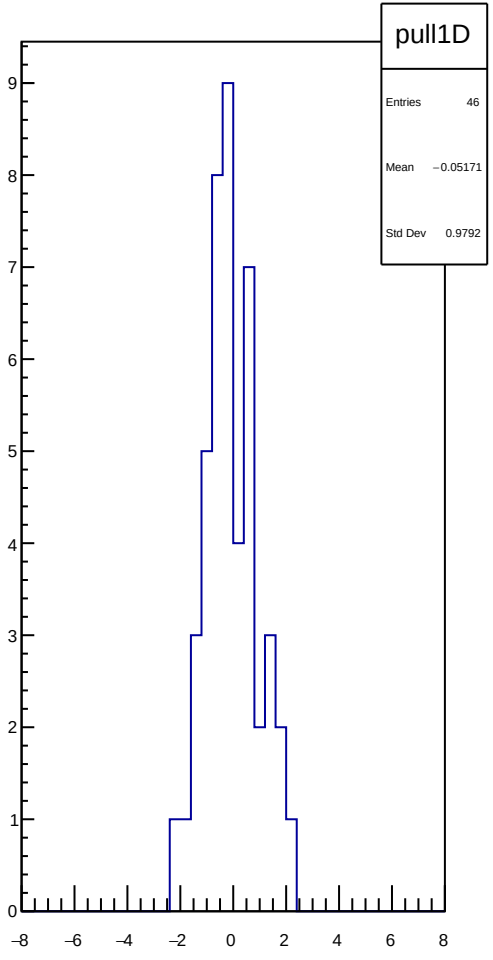

pull1D
Entries 46
Mean −0.002091
Std Dev 1.02
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

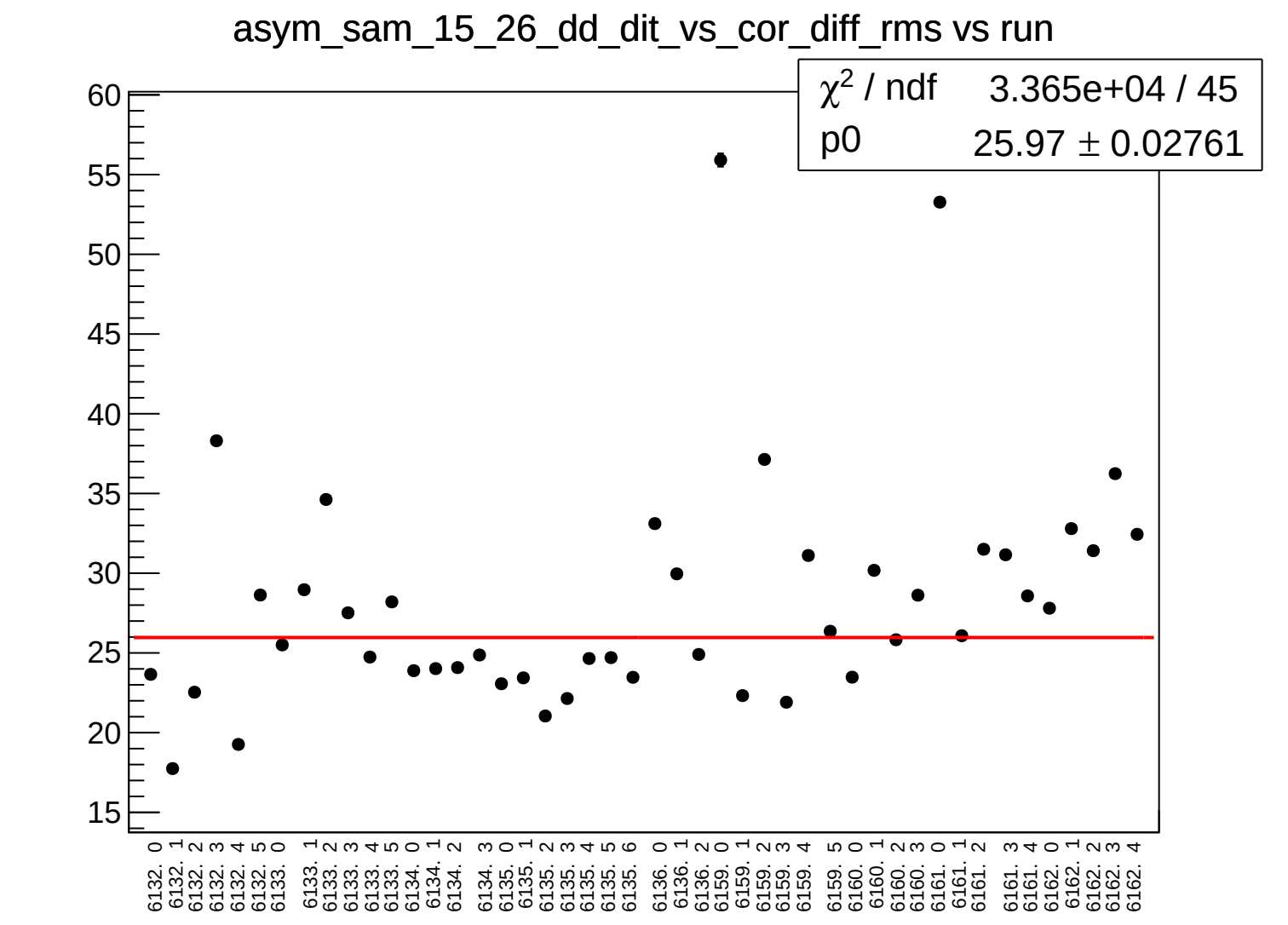

asym_sam_15_26_dd_rms vs run
χ² / ndf 9715 / 45
p0 756.5 ± 0.7936
1050
1000
950
900
850
800
750
700
650
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

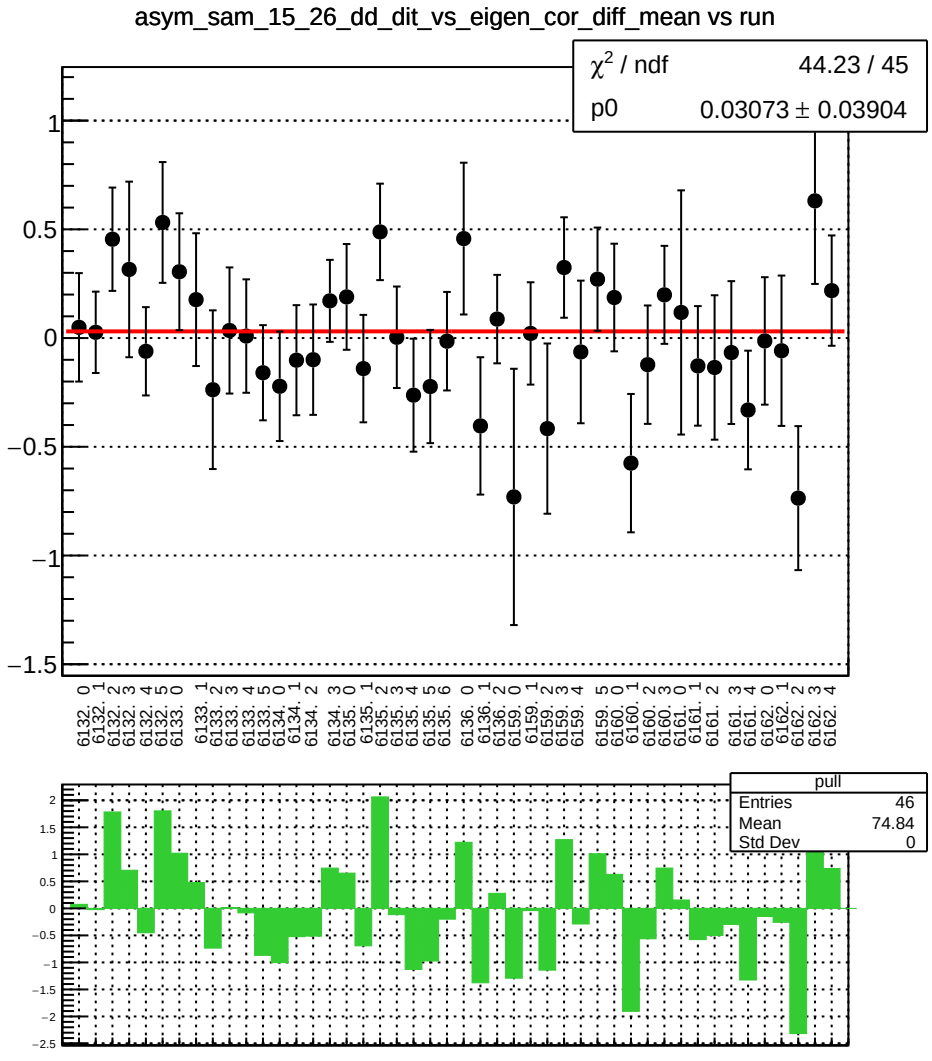

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 42.32 / 45
p0 1.313e−13 ± 7.877e−14
0.4
0.2
0
−0.2
−0.4
−0.6
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 21.61
Std Dev 15.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.1815
Std Dev 0.9418
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

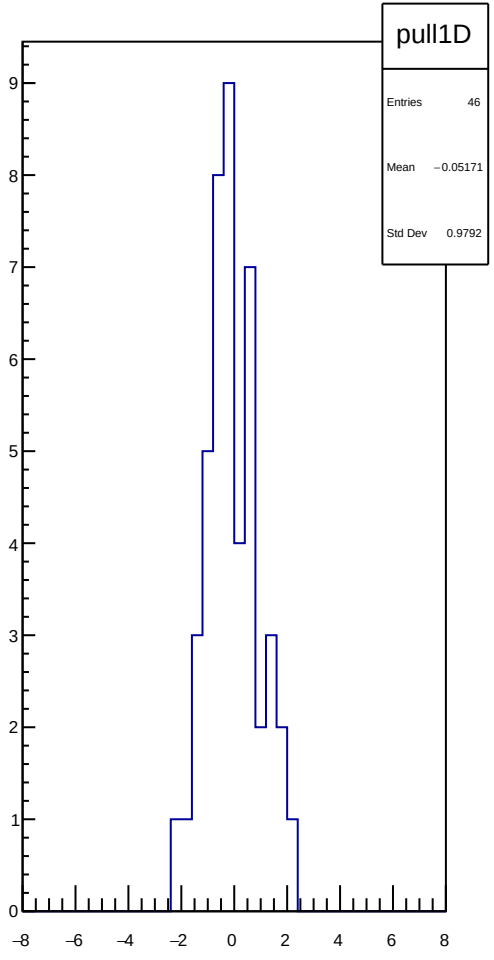

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.817e+05 / 45
p0 3.68e−11 ± 5.57e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

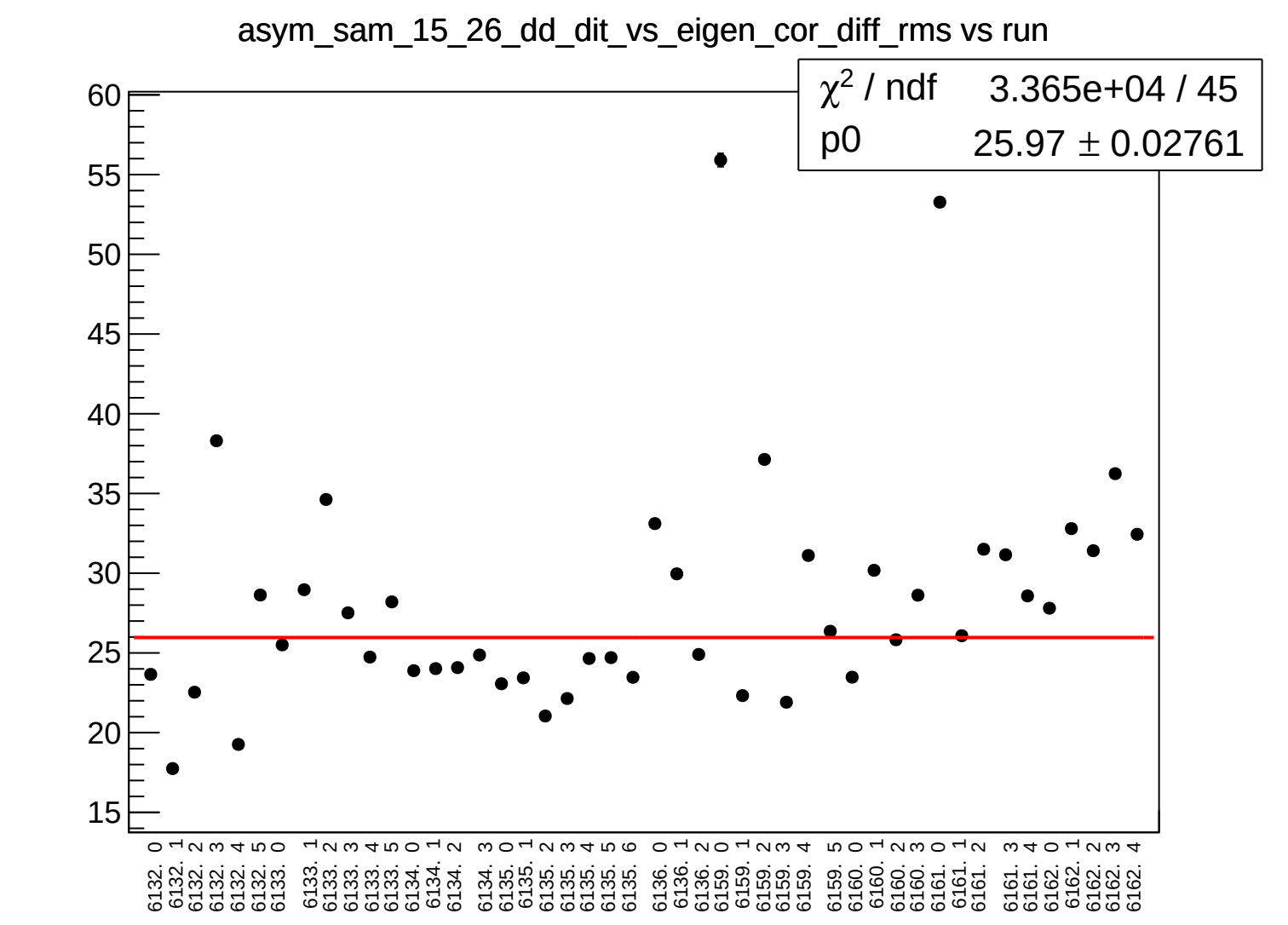

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 44.23 / 45
p0 0.03073 ± 0.03904
pull
Entries 46
Mean 74.84
Std Dev 0

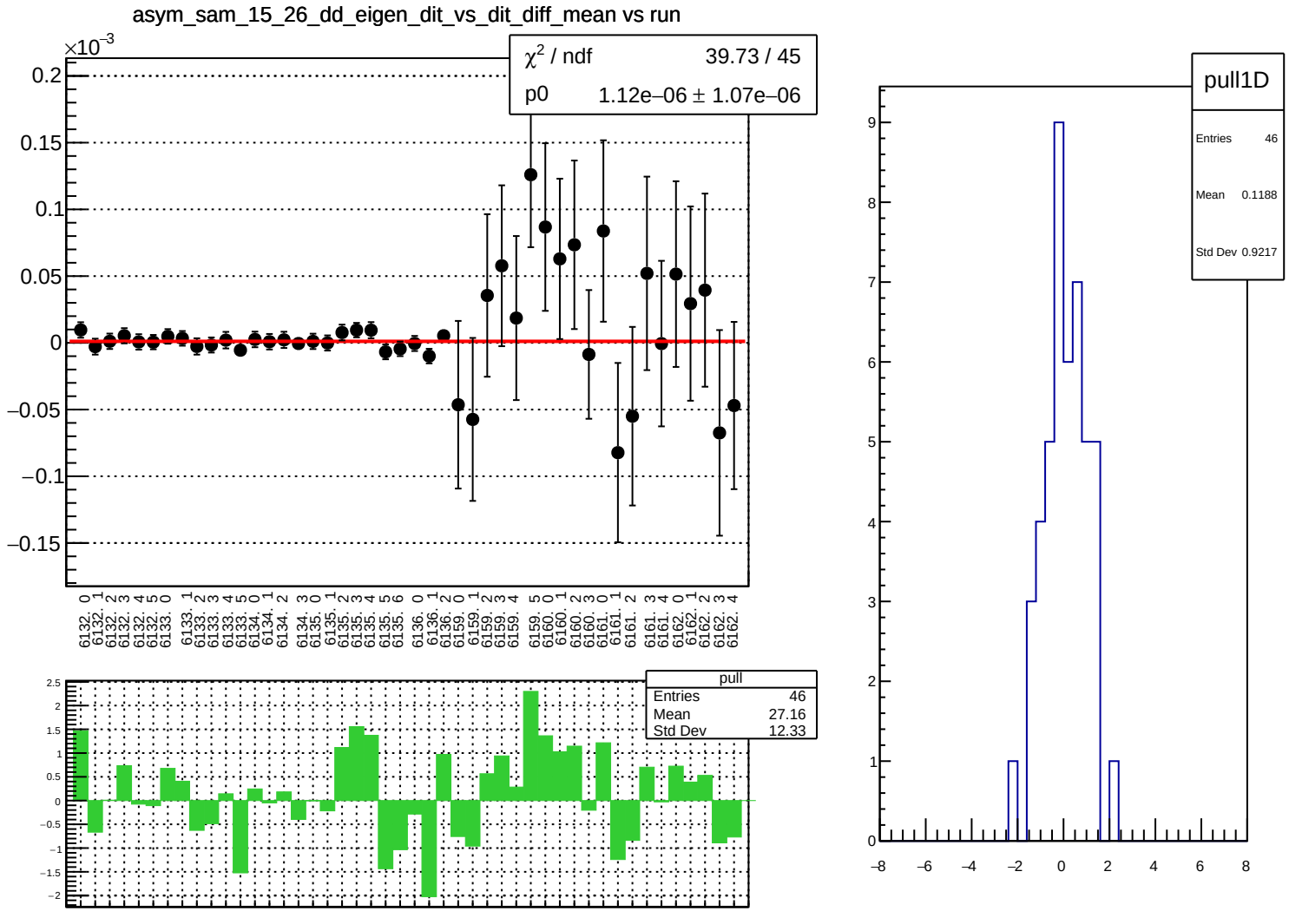

pull1D
Entries 46
Mean −0.05171
Std Dev 0.9792

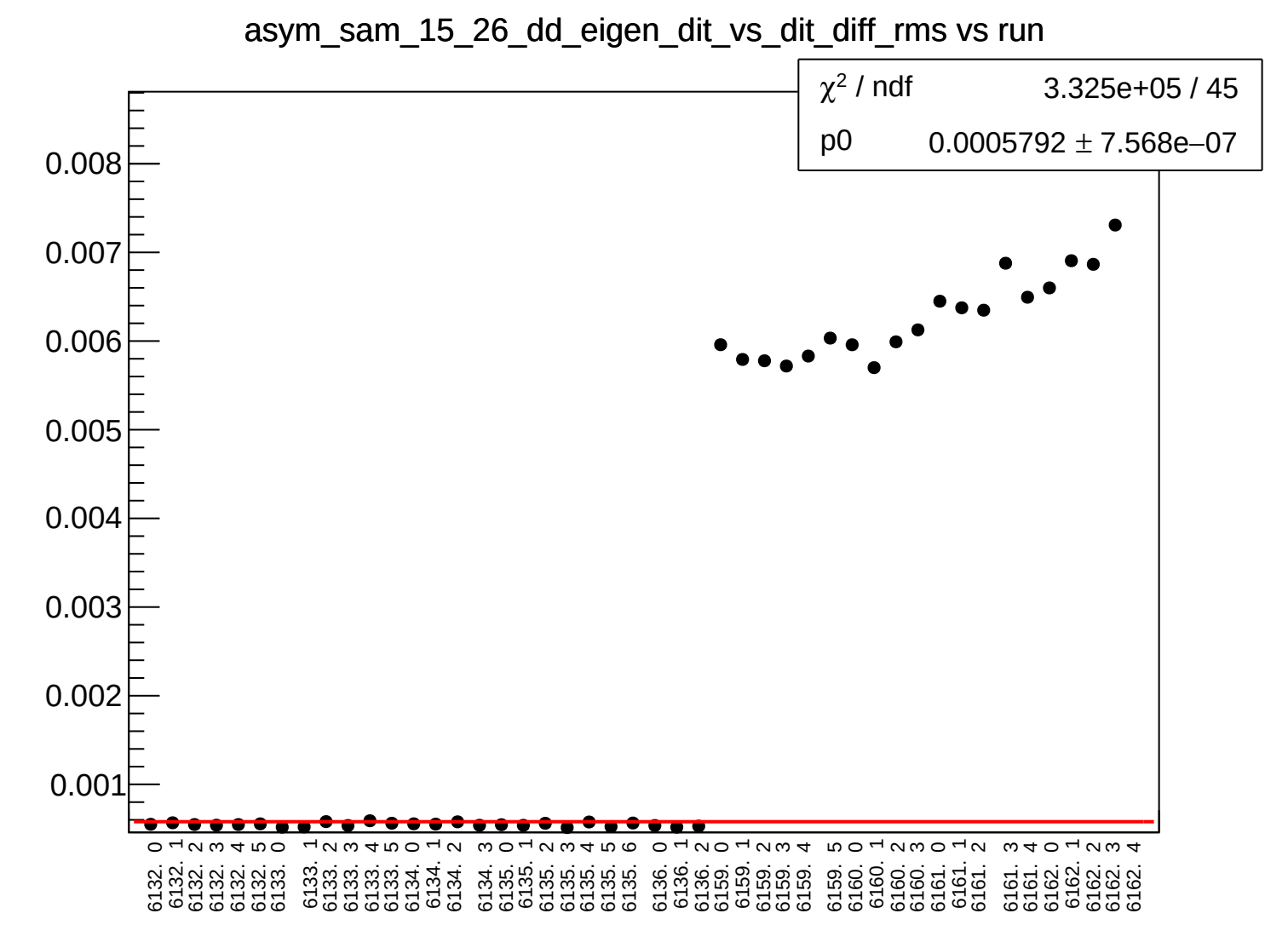

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.365e+04 / 45
p0 25.97 ± 0.02761
60
55
50
45
40
35
30
25
20
15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

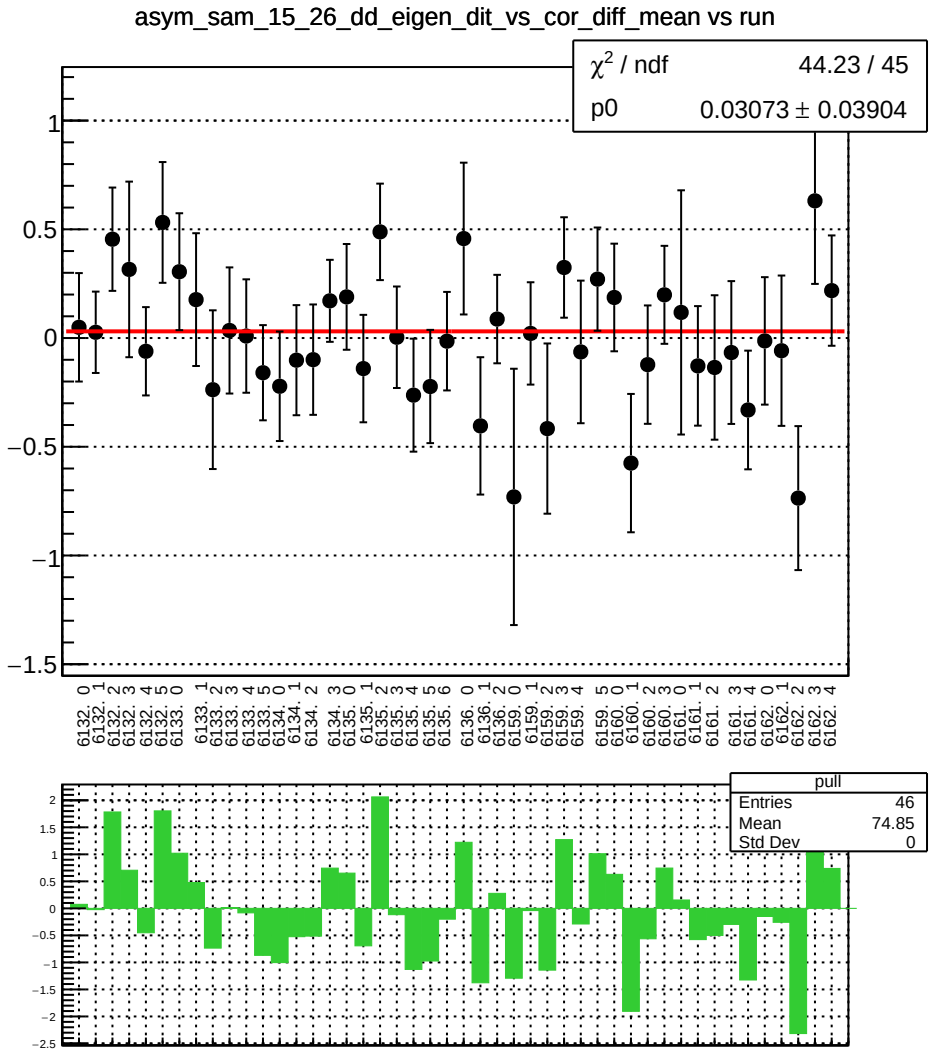

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.23 / 45
p0 0.03073 ± 0.03904
pull
Entries 46
Mean 74.84
Std Dev 0

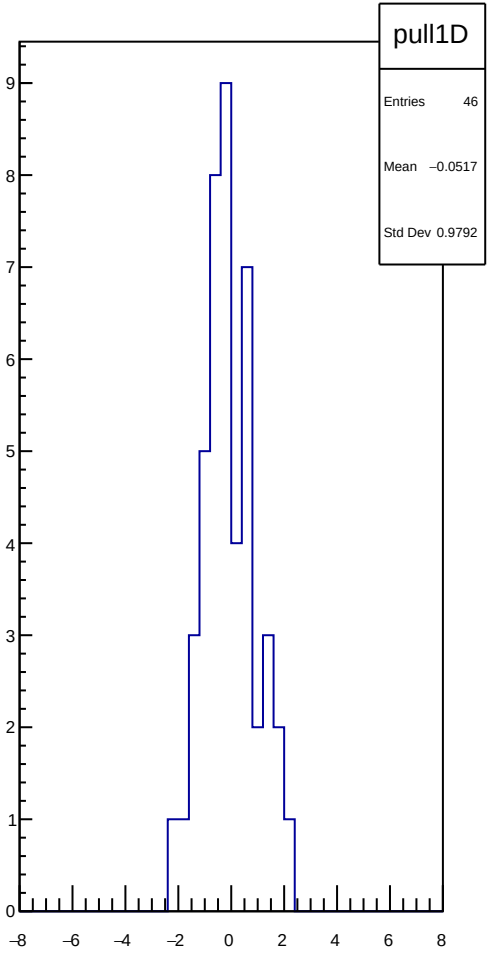

pull1D
Entries 46
Mean −0.05171
Std Dev 0.9792

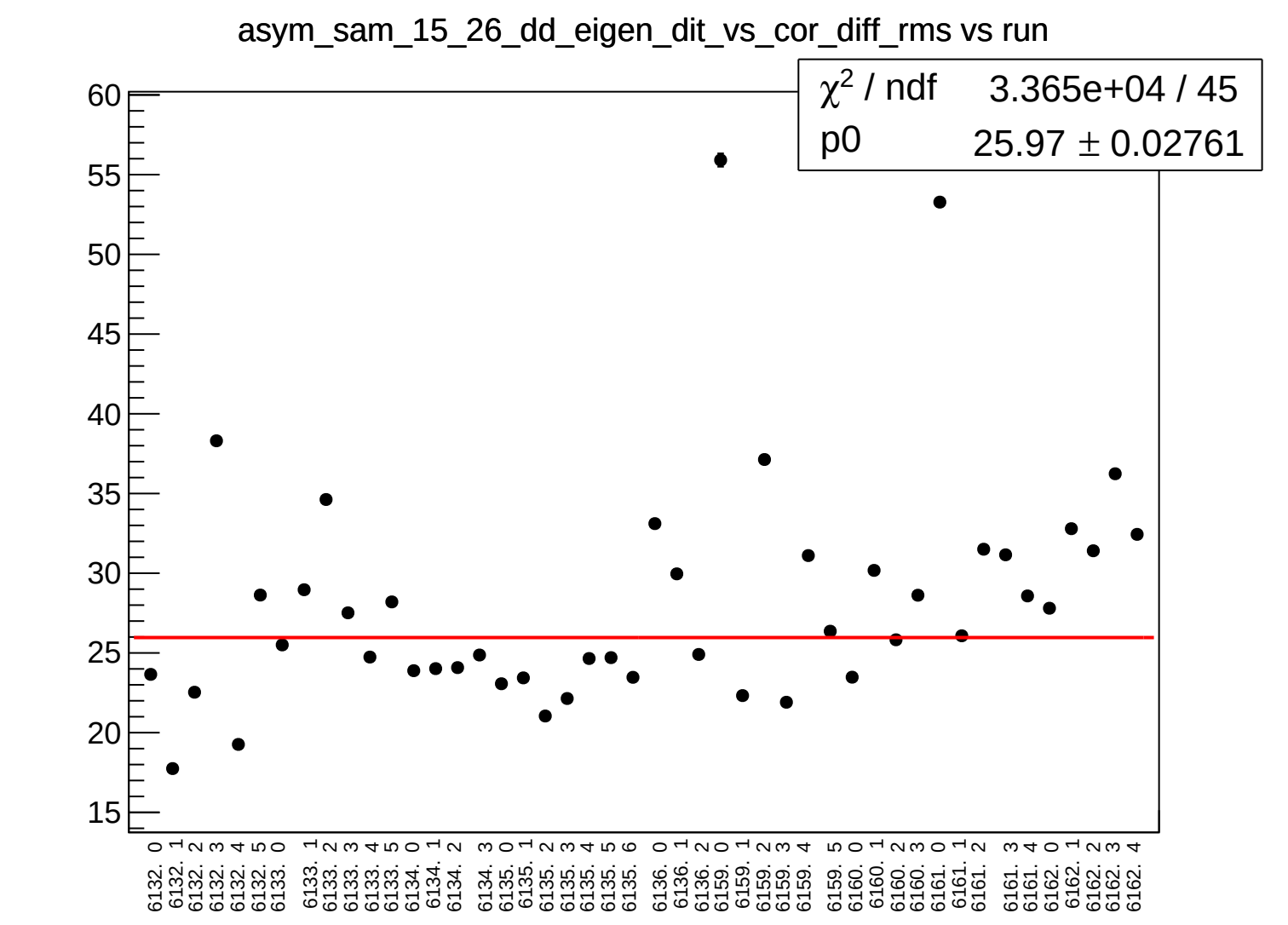

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.365e+04 / 45
p0 25.97 ± 0.02761
60
55
50
45
40
35
30
25
20
15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

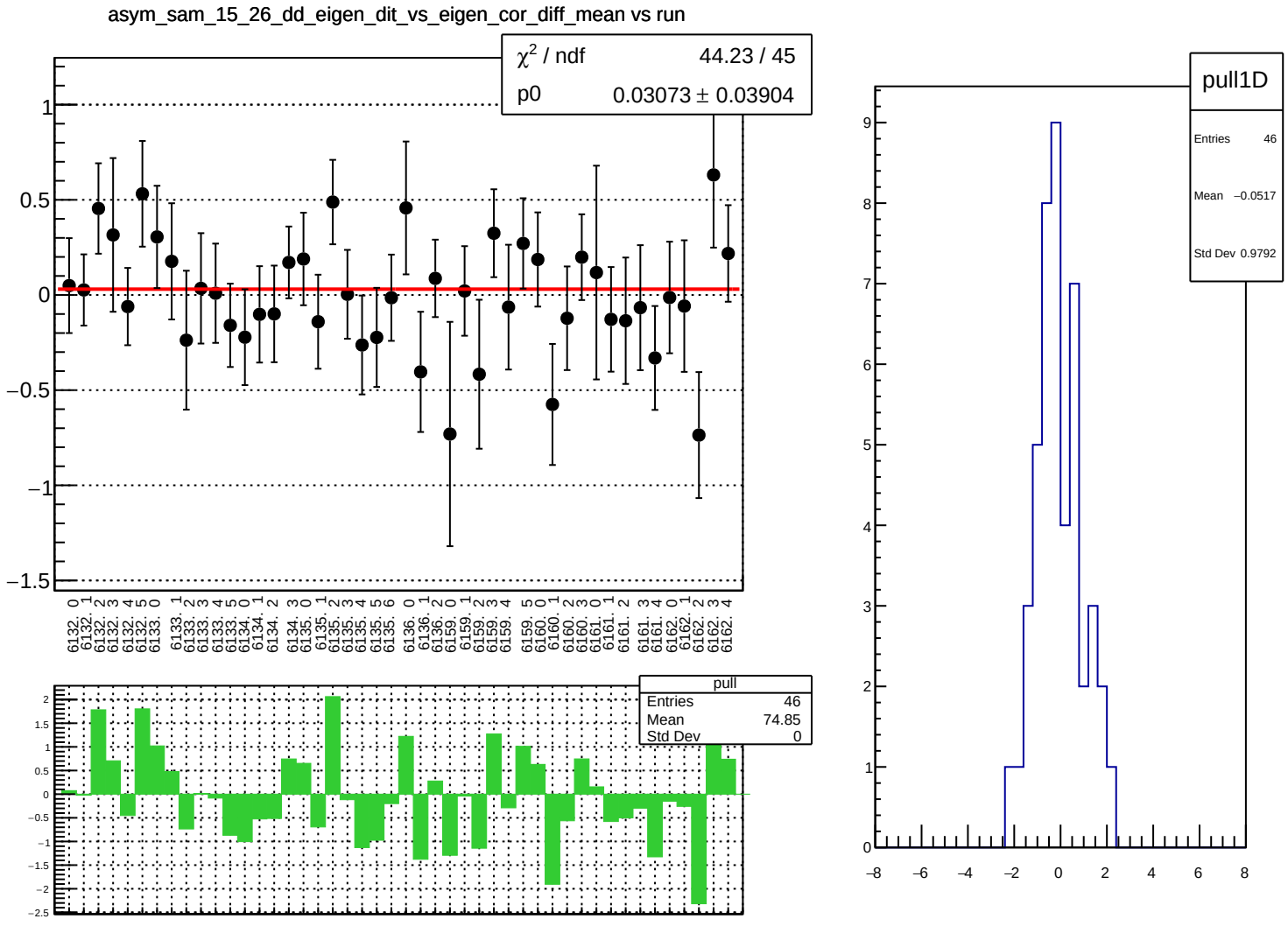

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 39.73 / 45
p0 1.12e−06 ± 1.07e−06
pull
Entries 46
Mean 27.16
Std Dev 12.33
pull1D
Entries 46
Mean 0.1188
Std Dev 0.9217

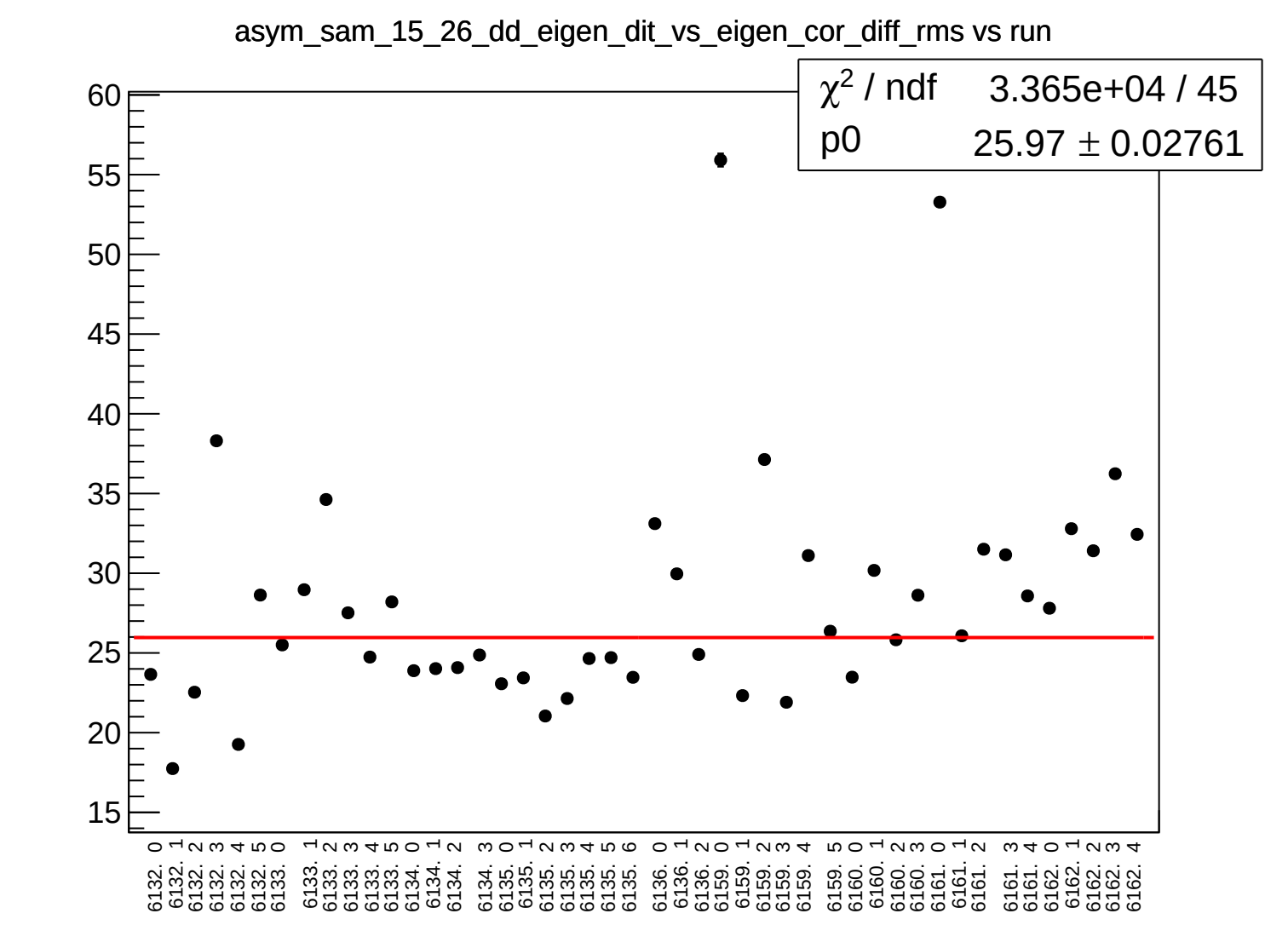

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.325e+05 / 45
p0 0.0005792 ± 7.568e−07
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

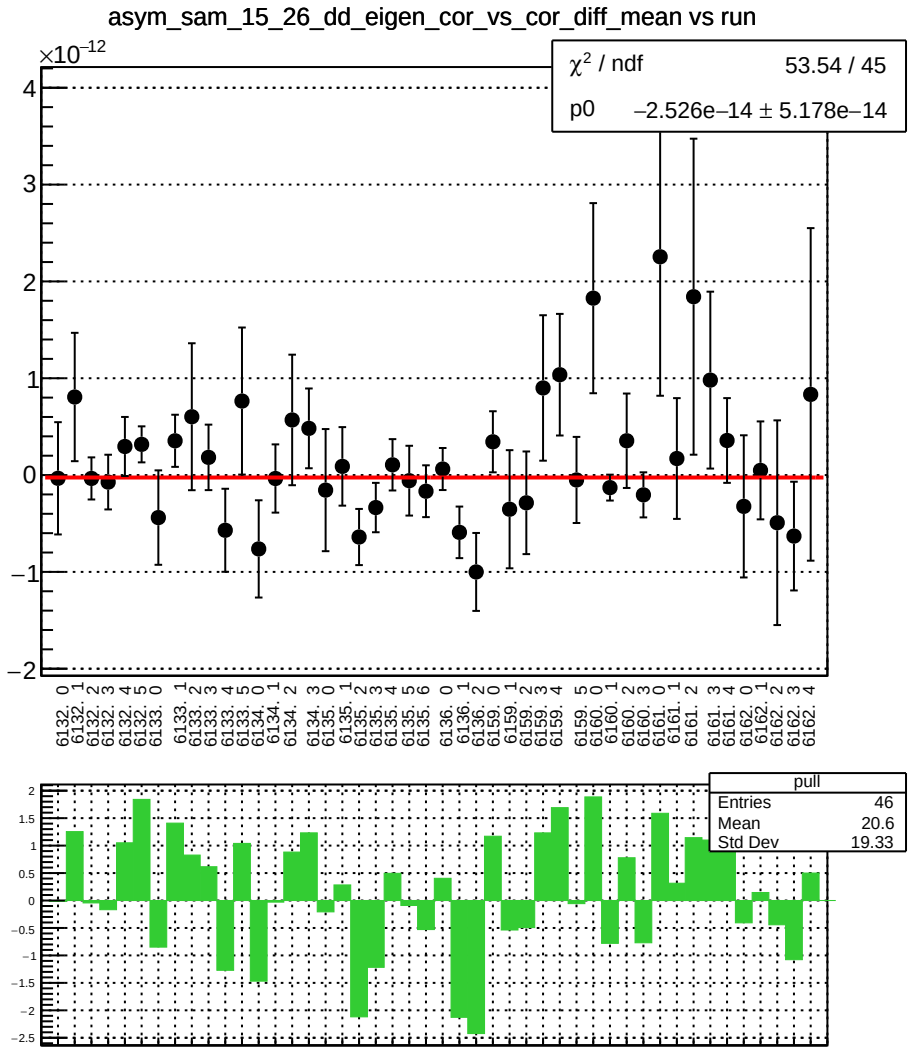

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 44.23 / 45
p0 0.03073 ± 0.03904
pull
Entries 46
Mean 74.85
Std Dev 0

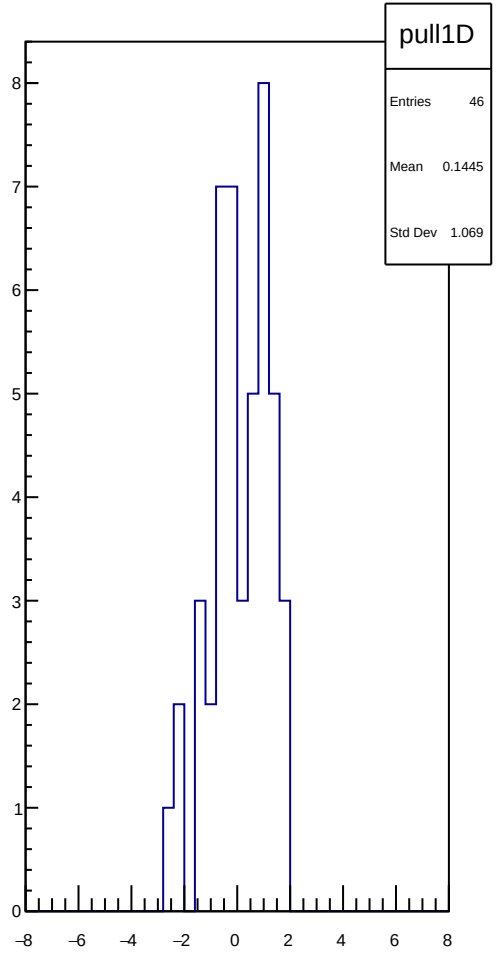

pull1D
Entries 46
Mean −0.0517
Std Dev 0.9792

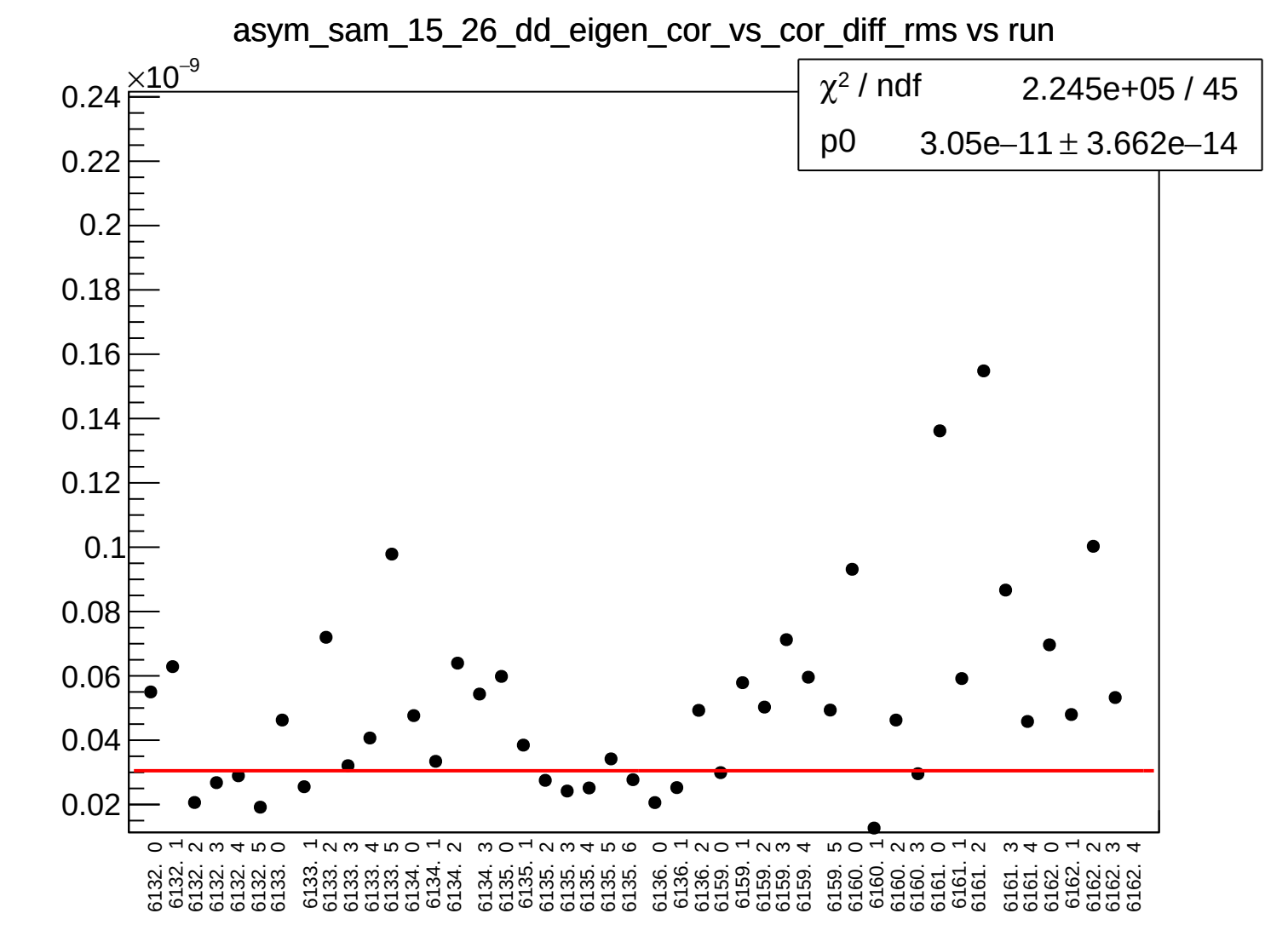

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.365e+04 / 45
p0 25.97 ± 0.02761
60
55
50
45
40
35
30
25
20
15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

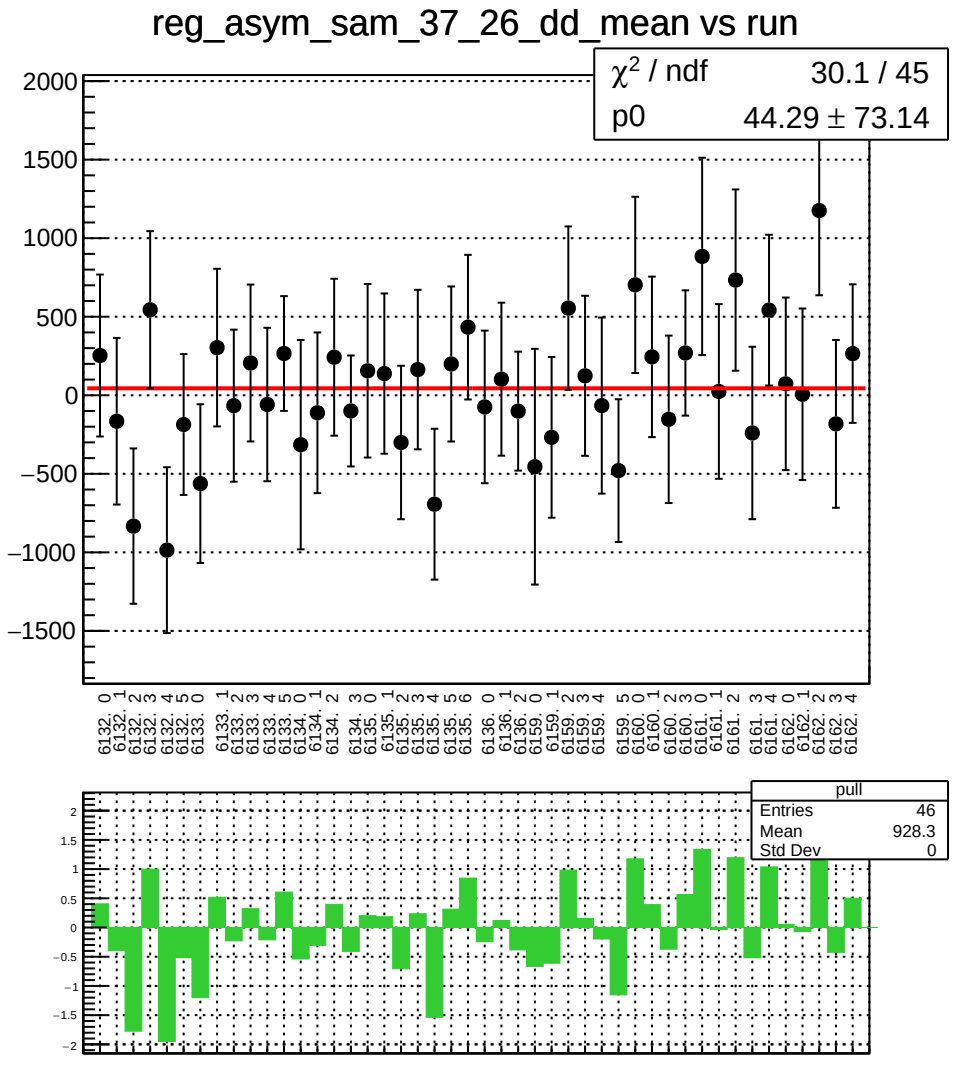

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.23 / 45
p0 0.03073 ± 0.03904
pull
Entries 46
Mean 74.85
Std Dev 0
pull1D
Entries 46
Mean −0.0517
Std Dev 0.9792

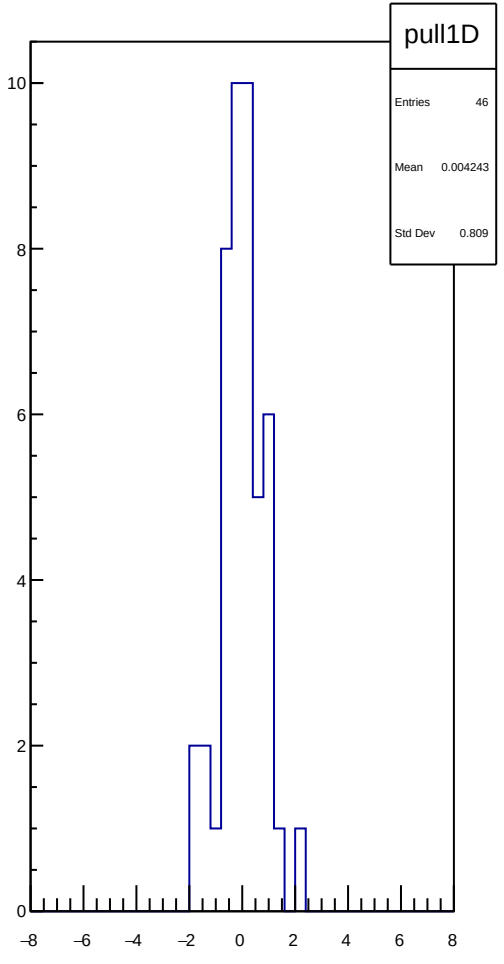

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.365e+04 / 45
p0 25.97 ± 0.02761
60
55
50
45
40
35
30
25
20
15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

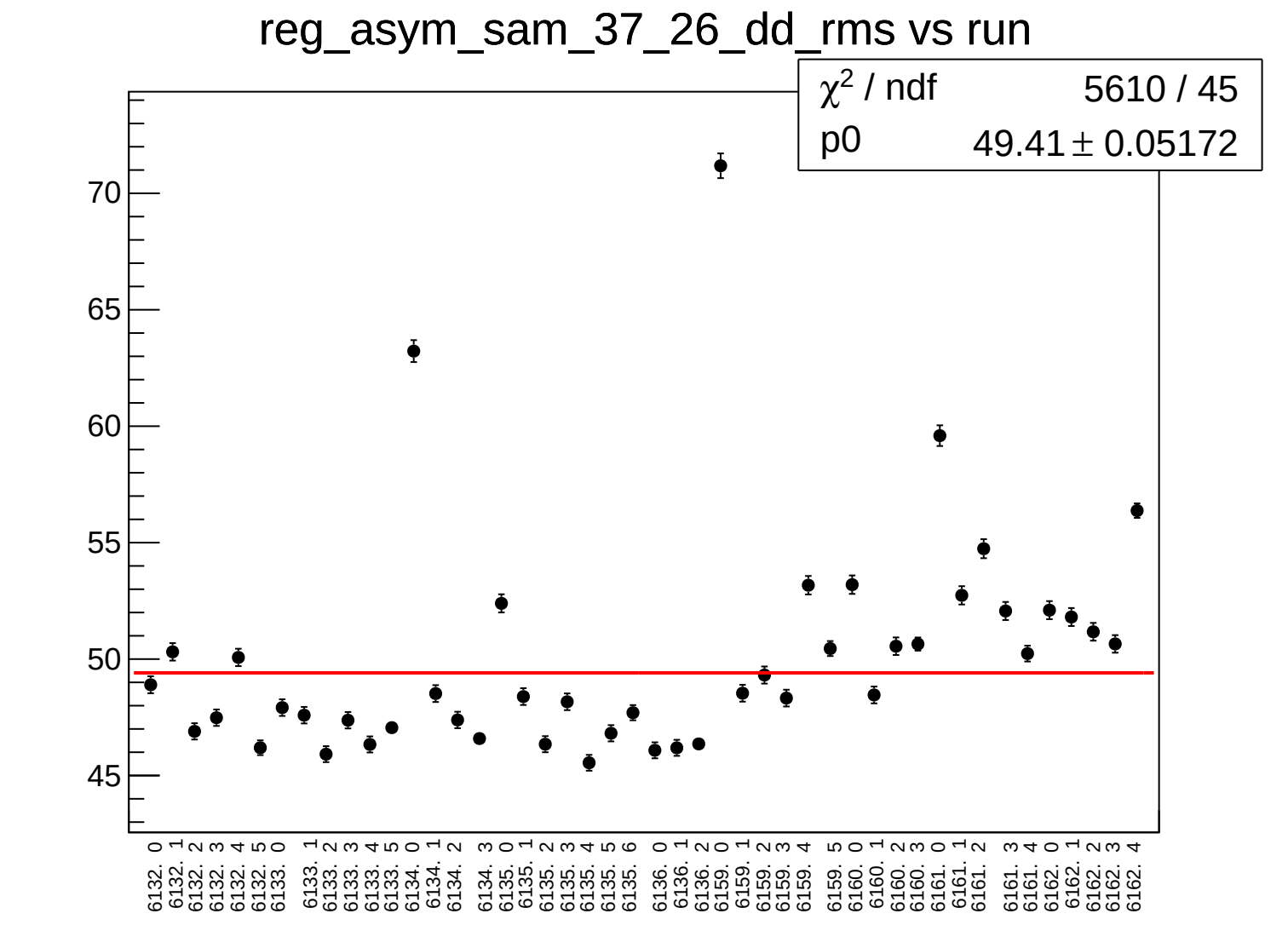

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 53.54 / 45
p0 −2.526e−14 ± 5.178e−14
pull
Entries 46
Mean 20.6
Std Dev 19.33

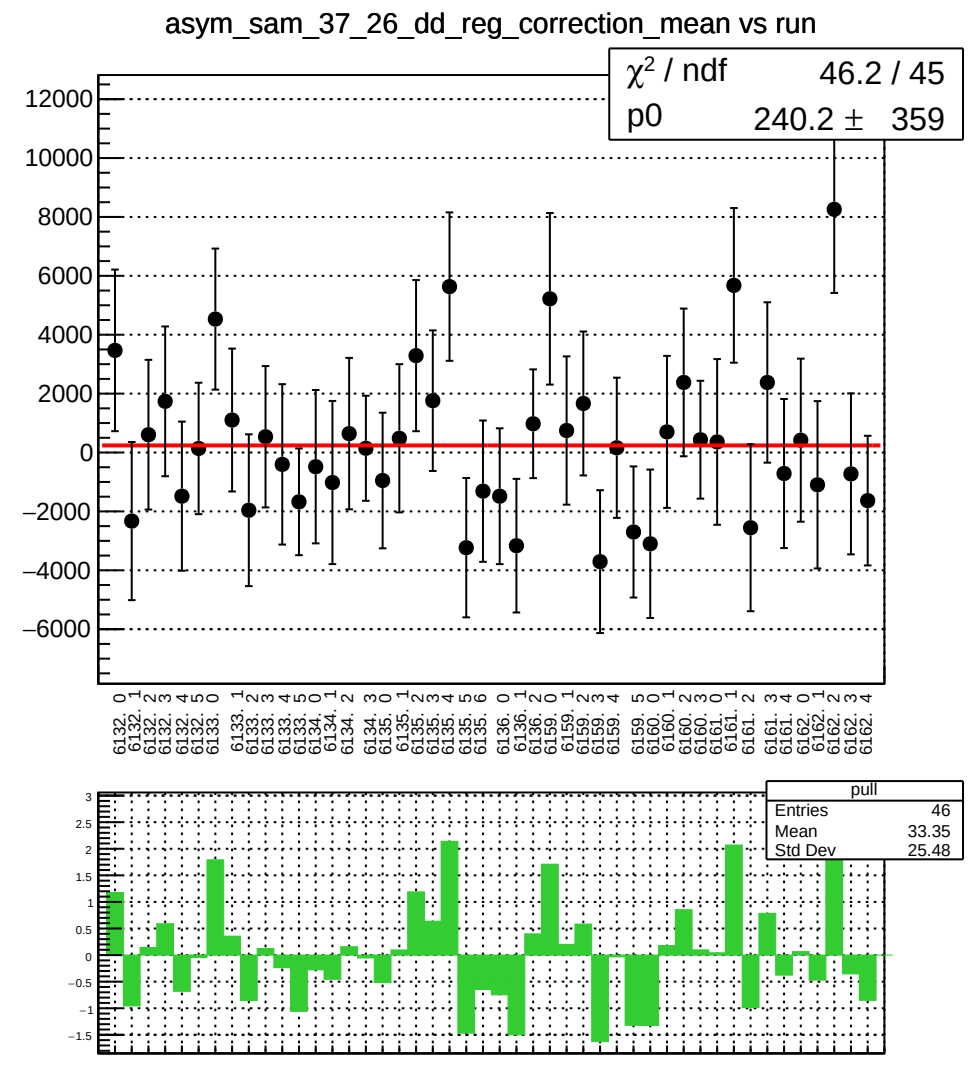

pull1D
Entries 46
Mean 0.1445
Std Dev 1.069


asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.245e+05 / 45
p0 3.05e−11 ± 3.662e−14
0.24
0.22
0.2
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
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 30.1 / 45
p0 44.29 ± 73.14
pull
Entries 46
Mean 928.3
Std Dev 0


pull1D
Entries 46
Mean 0.004243
Std Dev 0.809


reg_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 5610 / 45
p0 49.41 ± 0.05172
70
65
60
55
50
45
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 46.2 / 45
p0 240.2 ± 359
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
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6135. 1
6135. 2
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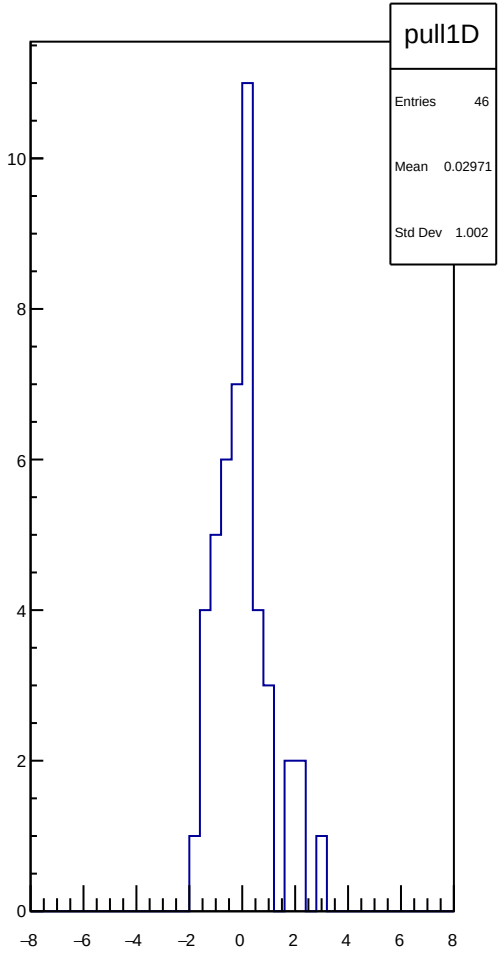
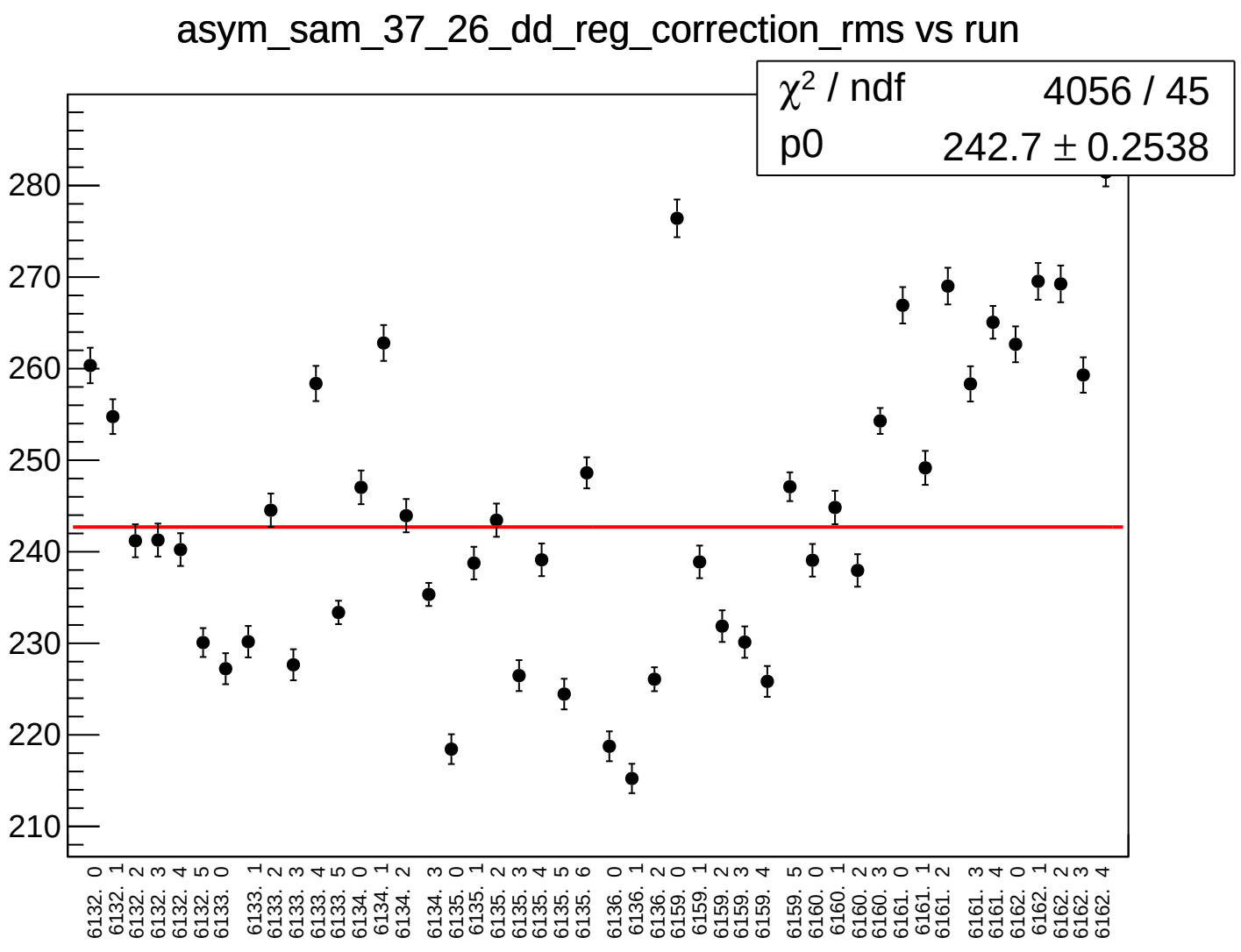
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 33.35
Std Dev 25.48
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 46
Mean 0.02971
Std Dev 1.002
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 4056 / 45
p0 242.7 ± 0.2538
280
270
260
250
240
230
220
210
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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6161. 4
6162. 0
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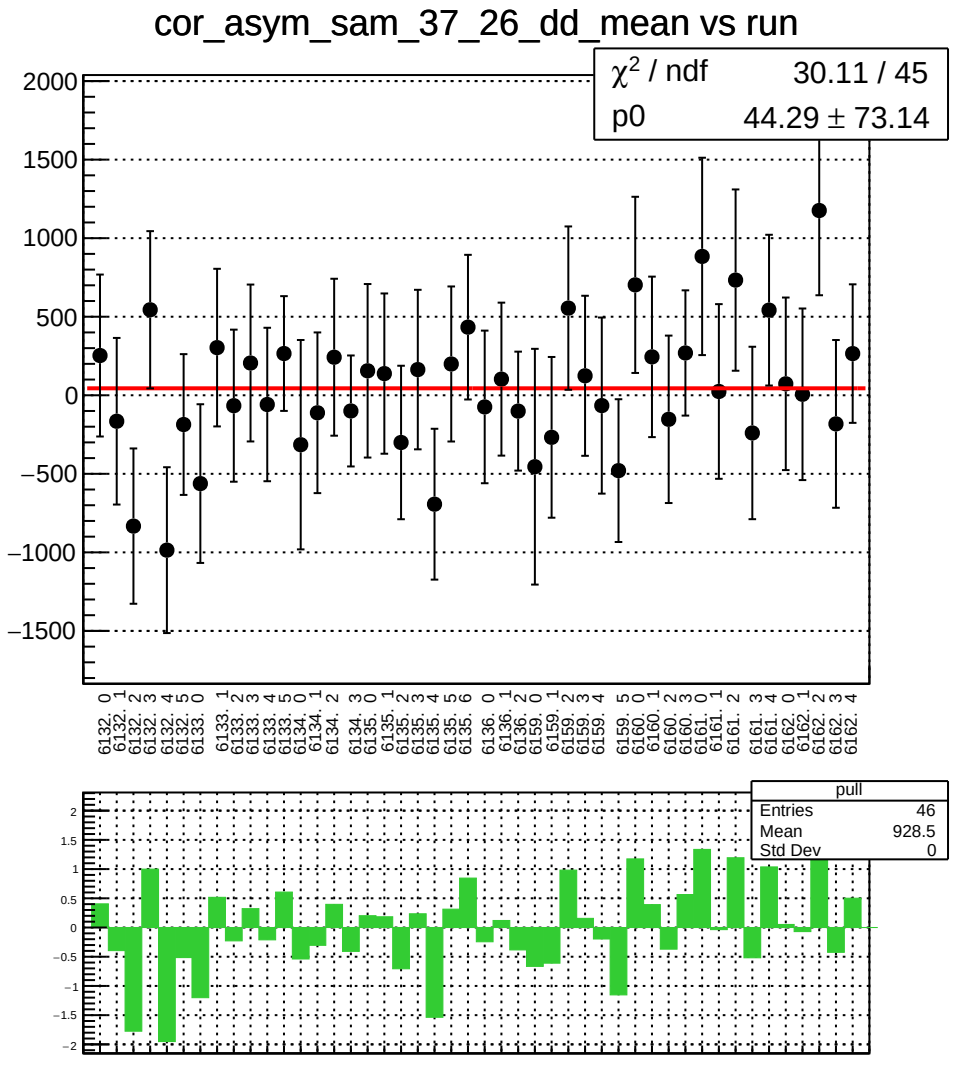
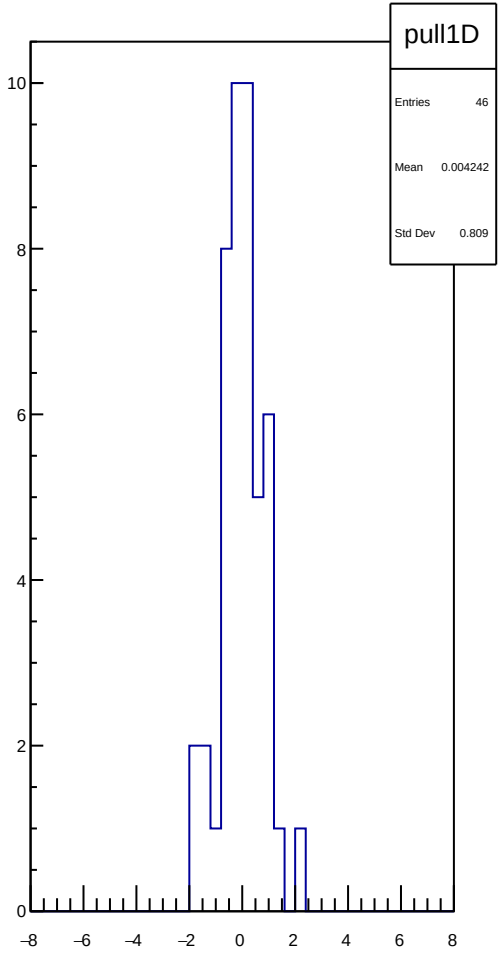
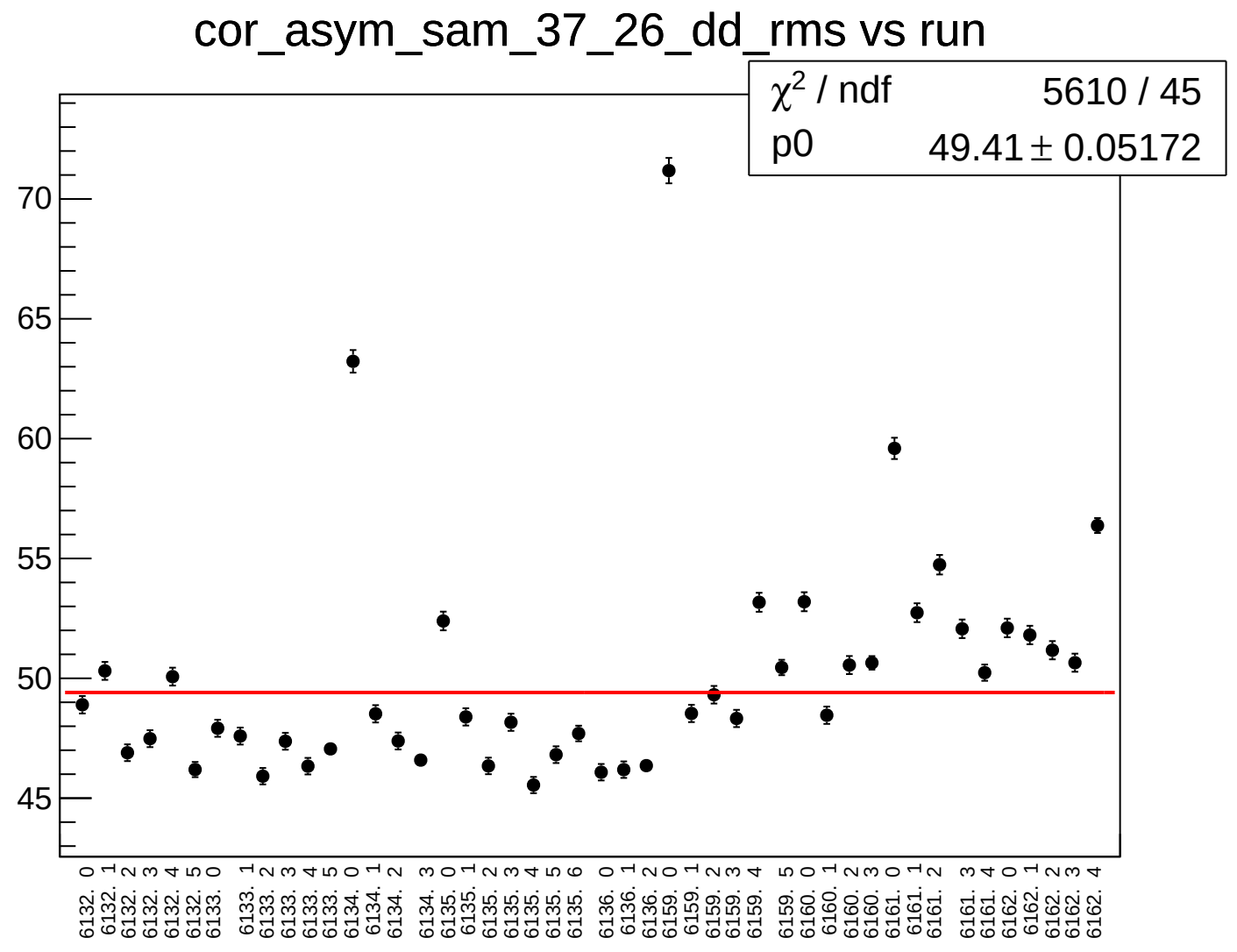
6162. 2
6162. 3
6162. 4


cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 30.11 / 45
p0 44.29 ± 73.14
2000
1500
1000
500
0
−500
−1000
−1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 928.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.004242
Std Dev 0.809
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 5610 / 45
p0 49.41 ± 0.05172
70
65
60
55
50
45
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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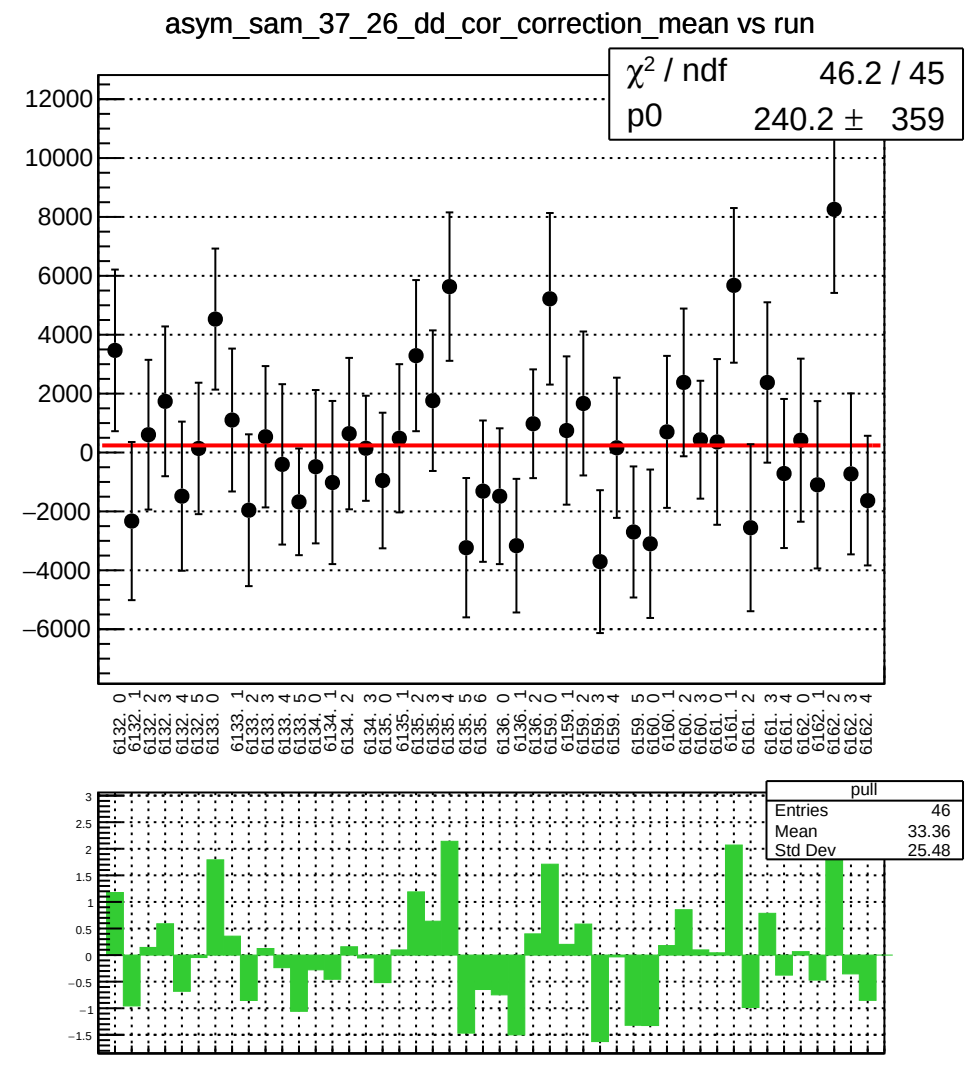
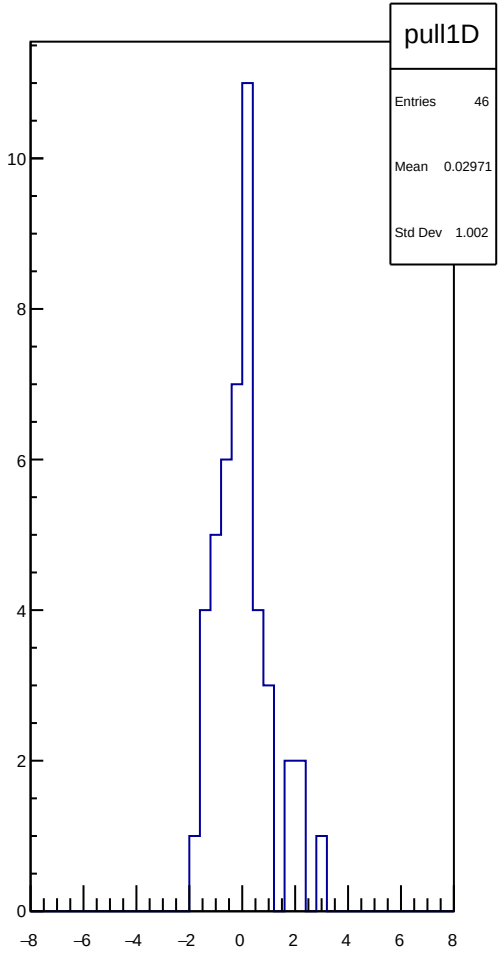
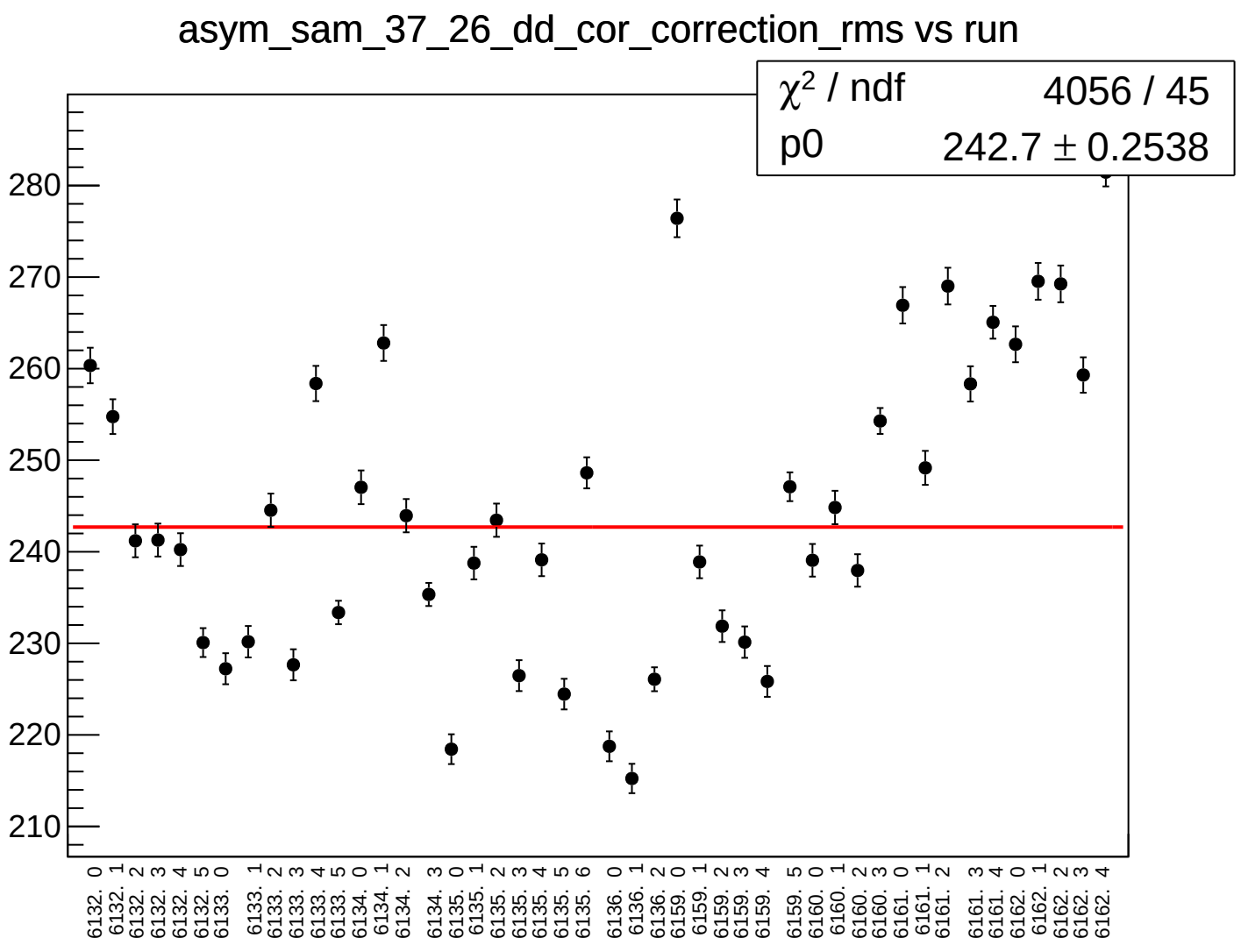
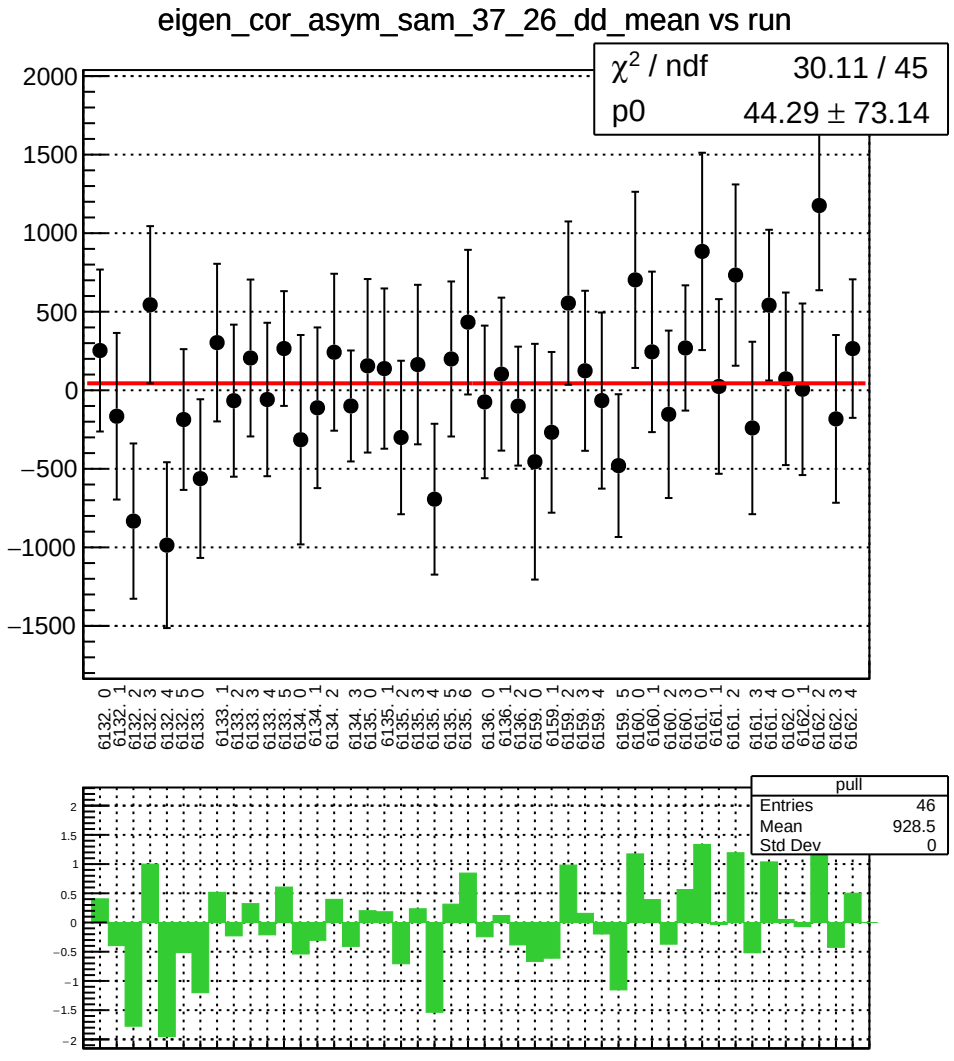
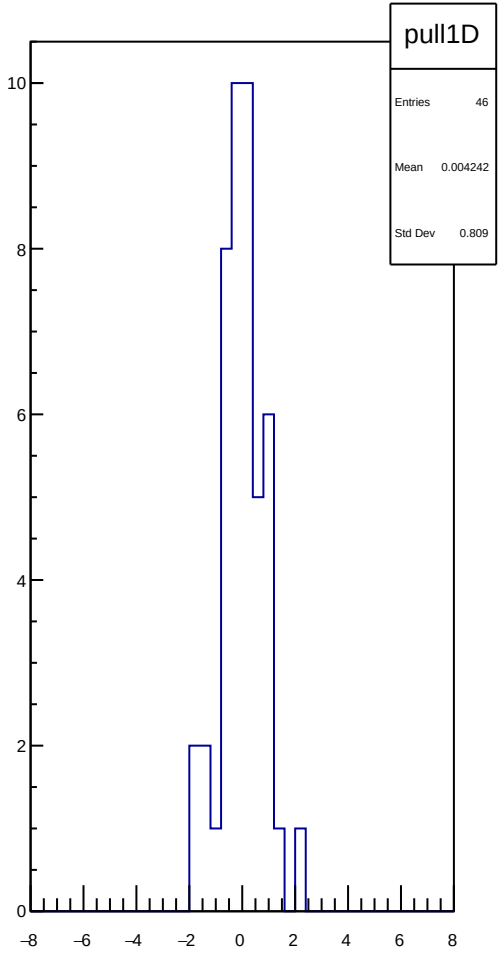
6162. 4

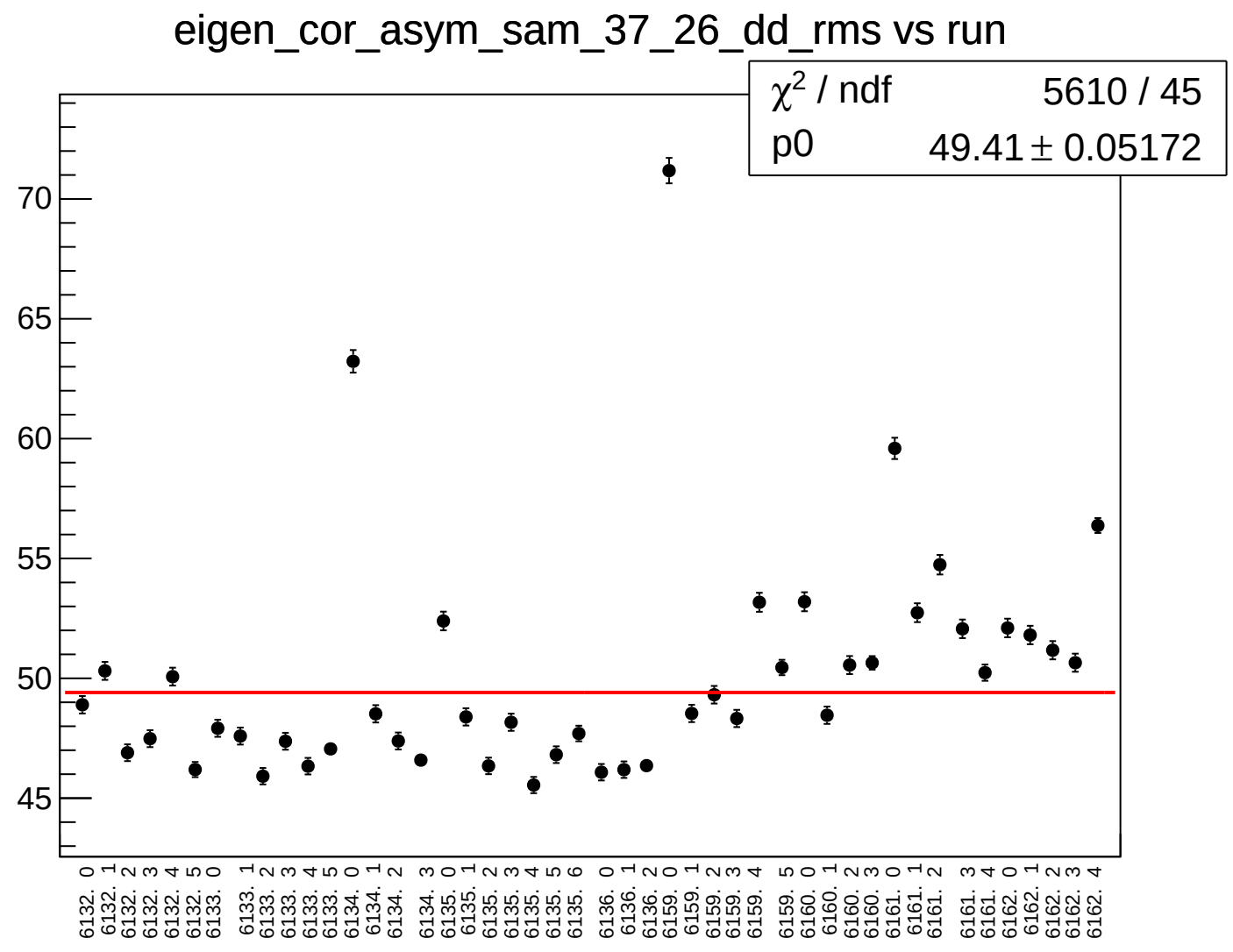

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 46.2 / 45
p0 240.2 ± 359
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 33.36
Std Dev 25.48
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 46
Mean 0.02971
Std Dev 1.002
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 4056 / 45
p0 242.7 ± 0.2538
280
270
260
250
240
230
220
210
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 30.11 / 45
p0 44.29 ± 73.14
pull
Entries 46
Mean 928.5
Std Dev 0


pull1D
Entries 46
Mean 0.004242
Std Dev 0.809


eigen_cor_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 5610 / 45
p0 49.41 ± 0.05172
70
65
60
55
50
45
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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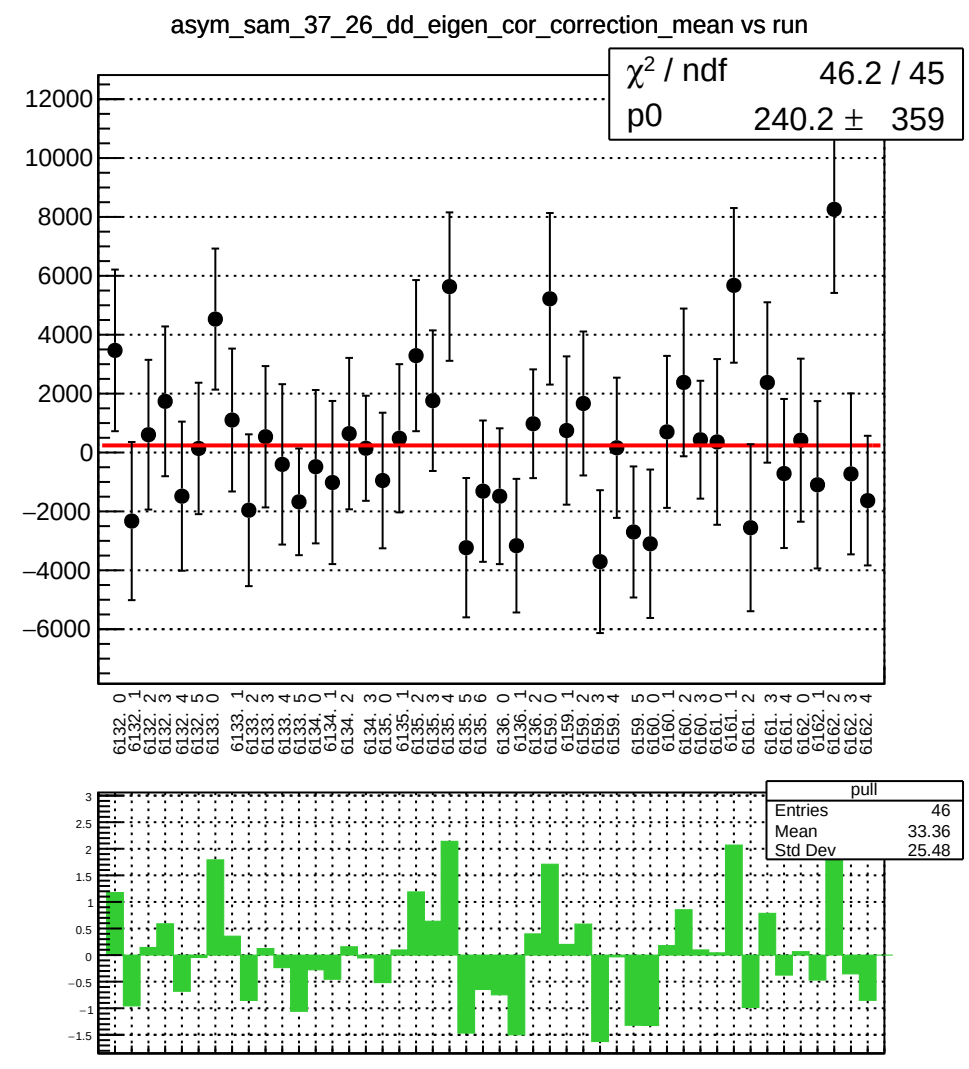
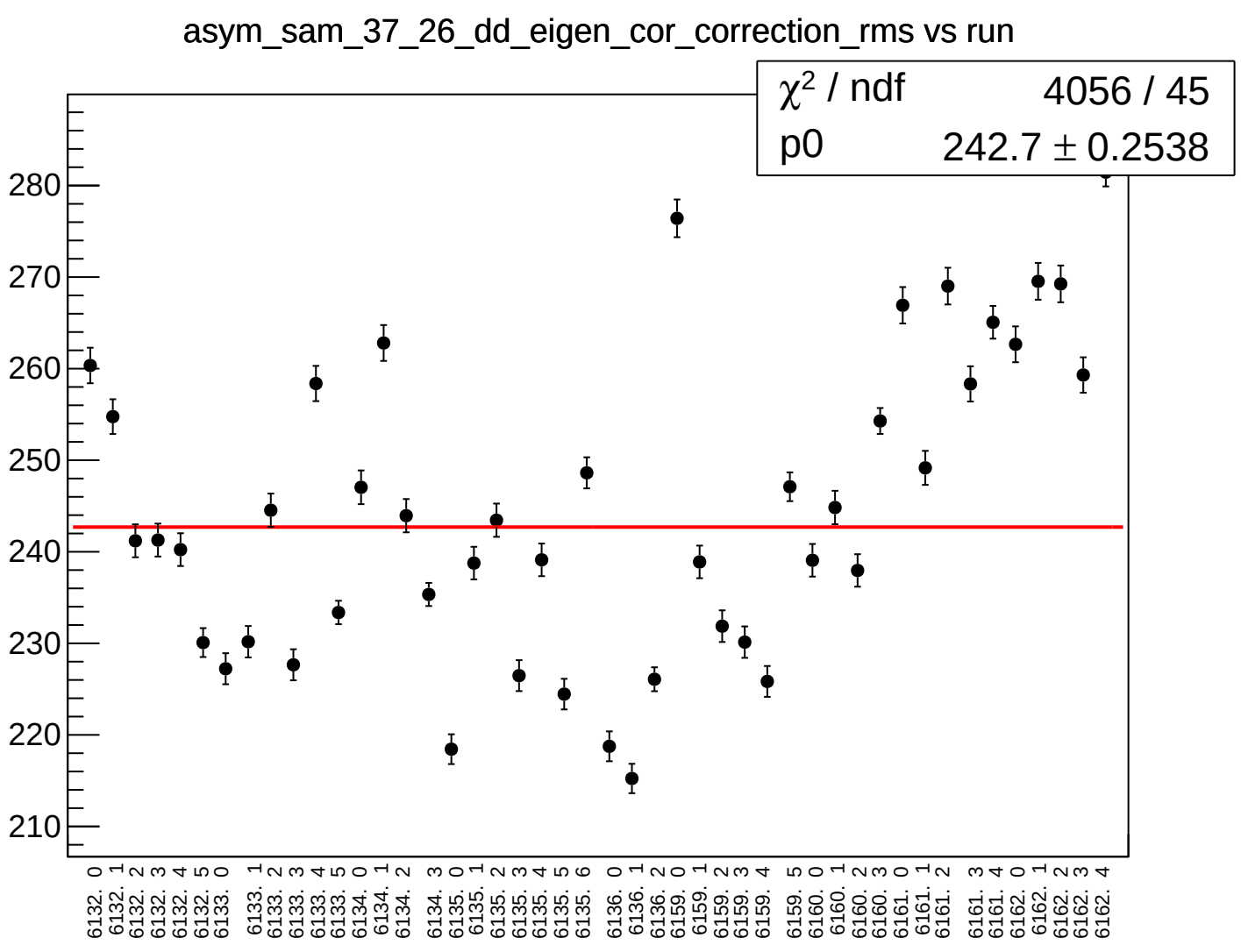
6162. 3
6162. 4


asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 46.2 / 45
p0 240.2 ± 359
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 33.36
Std Dev 25.48
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.02971
Std Dev 1.002
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 4056 / 45
p0 242.7 ± 0.2538
280
270
260
250
240
230
220
210
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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6133. 4
6133. 5
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6135. 3
6135. 4
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6135. 6
6136. 0
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6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
6161. 3
6161. 4
6162. 0
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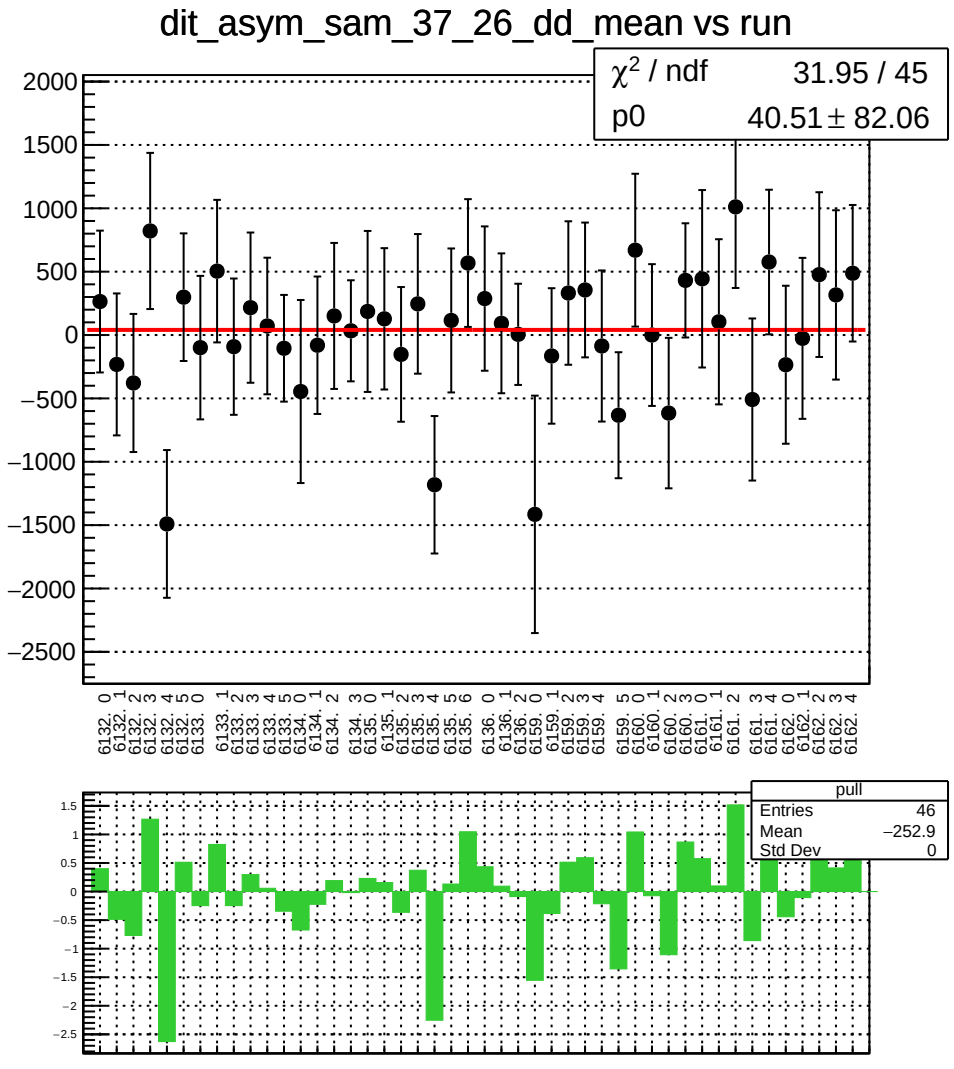
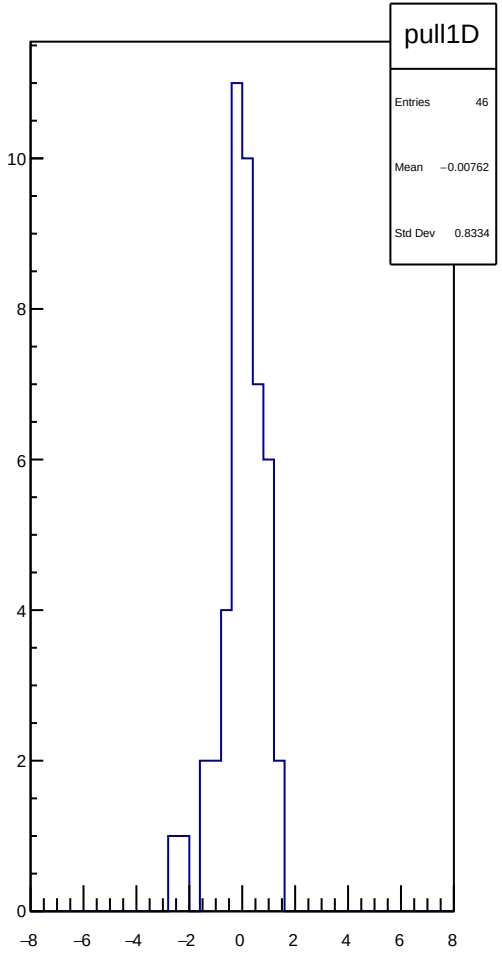
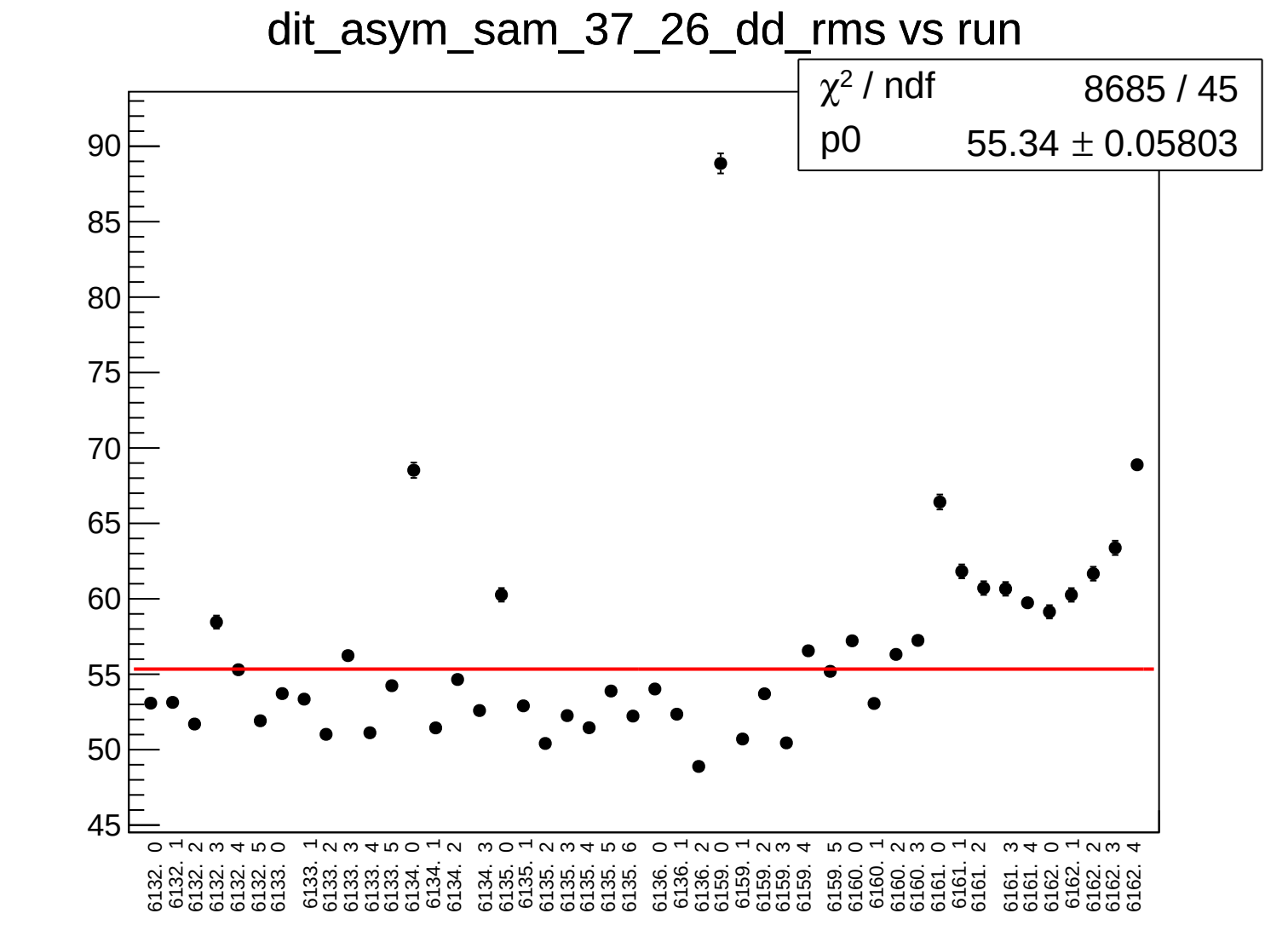
6162. 3
6162. 4


dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 31.95 / 45
p0 40.51 ± 82.06
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −252.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.00762
Std Dev 0.8334
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 8685 / 45
p0 55.34 ± 0.05803
90
85
80
75
70
65
60
55
50
45
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6159. 2
6159. 3
6159. 4
6159. 5
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6160. 1
6160. 2
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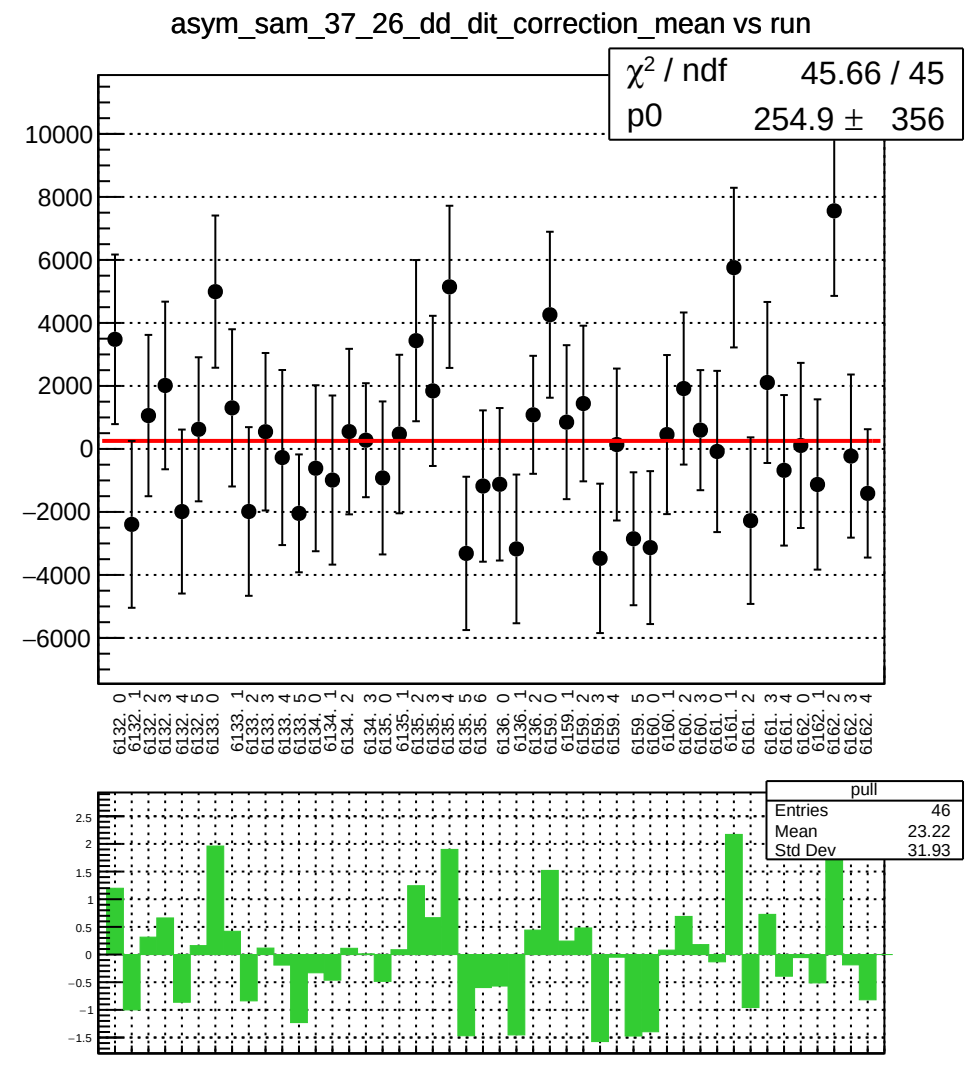
6162. 3
6162. 4


asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 45.66 / 45
p0 254.9 ± 356
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6136. 0
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6136. 2
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6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
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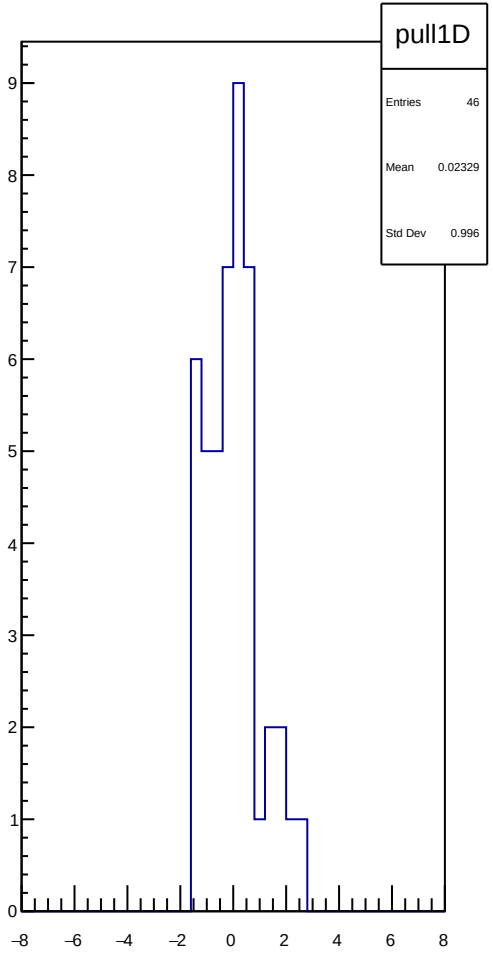
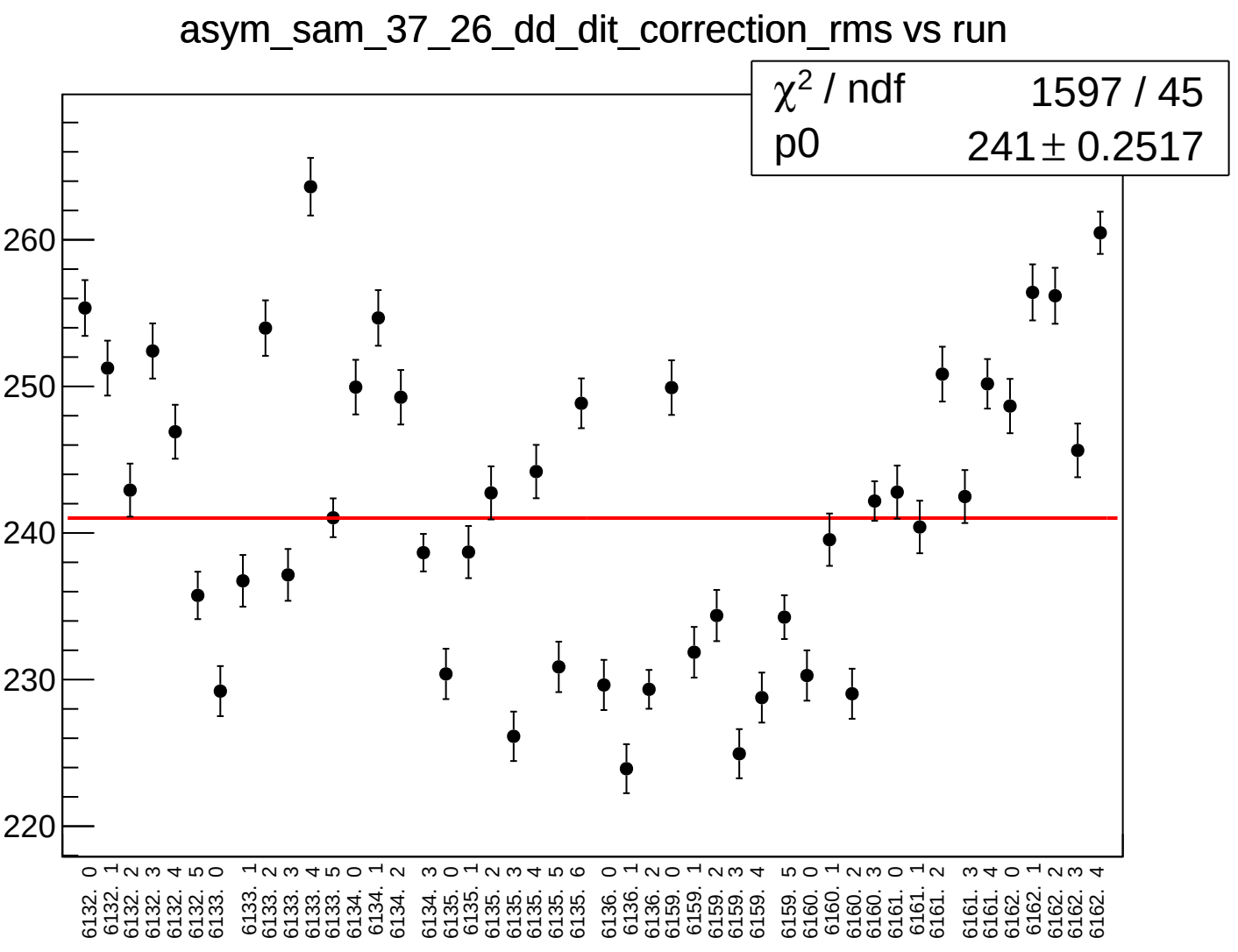
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 23.22
Std Dev 31.93
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 46
Mean 0.02329
Std Dev 0.996
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 1597 / 45
p0 241 ± 0.2517
260
250
240
230
220
6132. 0
6132. 1
6132. 2
6132. 3
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6159. 4
6159. 5
6160. 0
6160. 1
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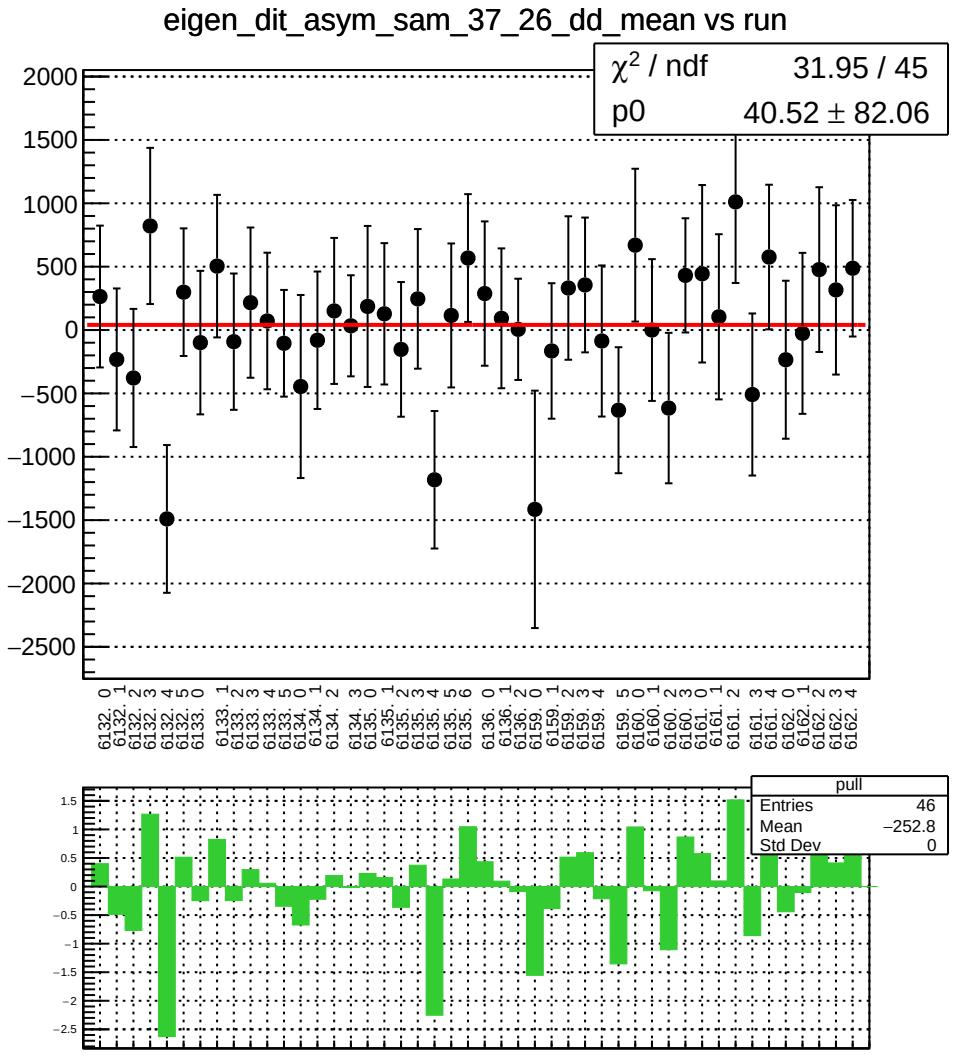
6162. 4


eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 31.95 / 45
p0 40.52 ± 82.06
2000
1500
1000
500
0
−500
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−1500
−2000
−2500
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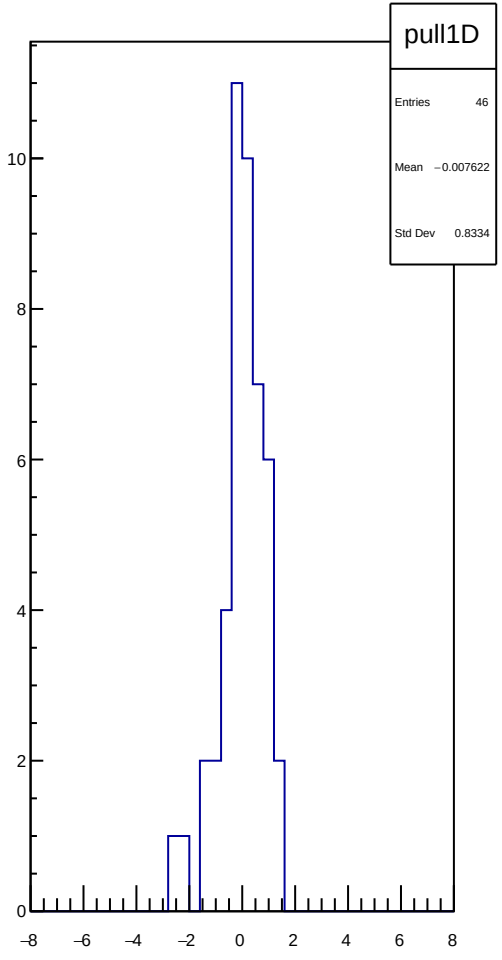
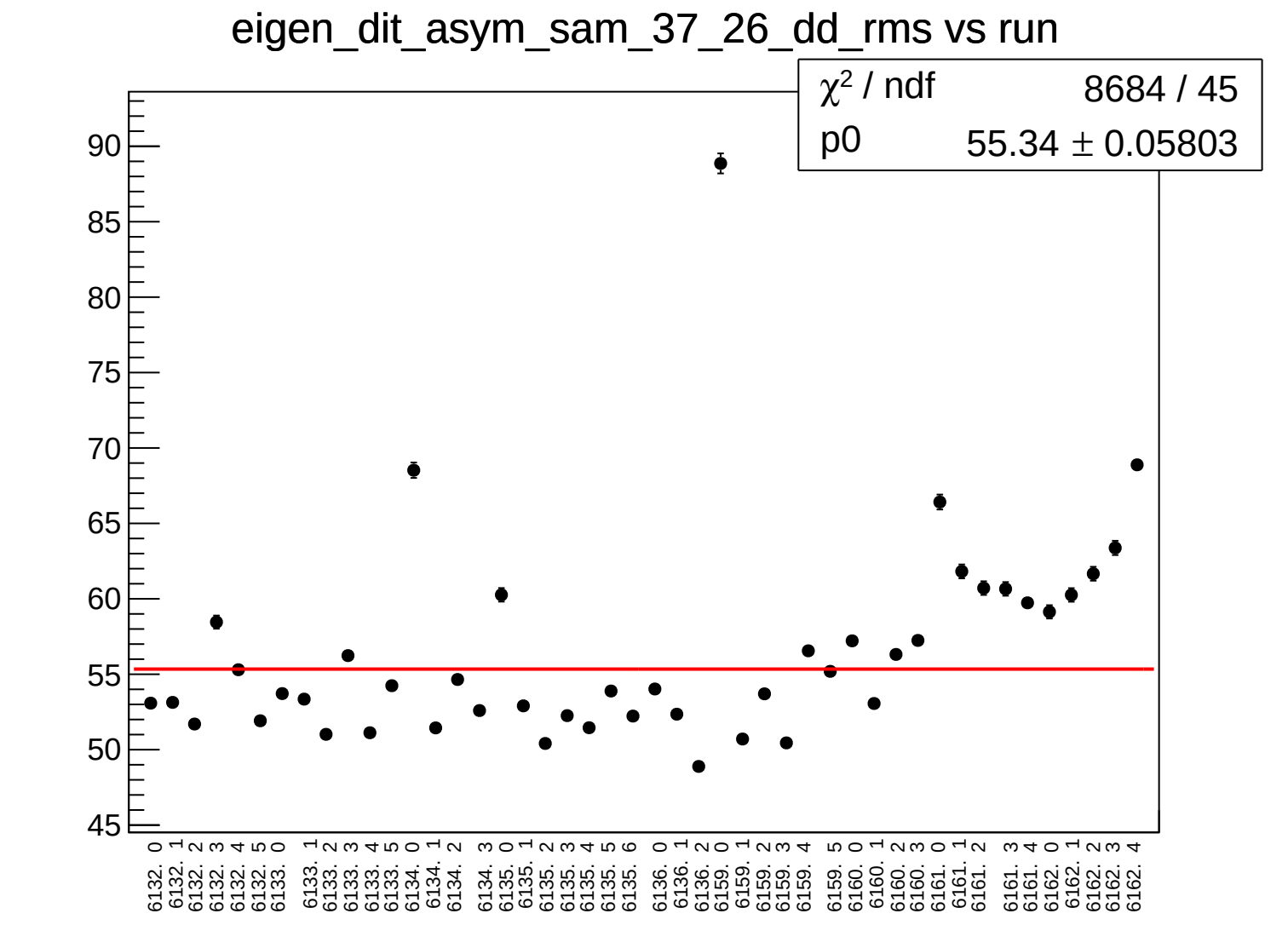
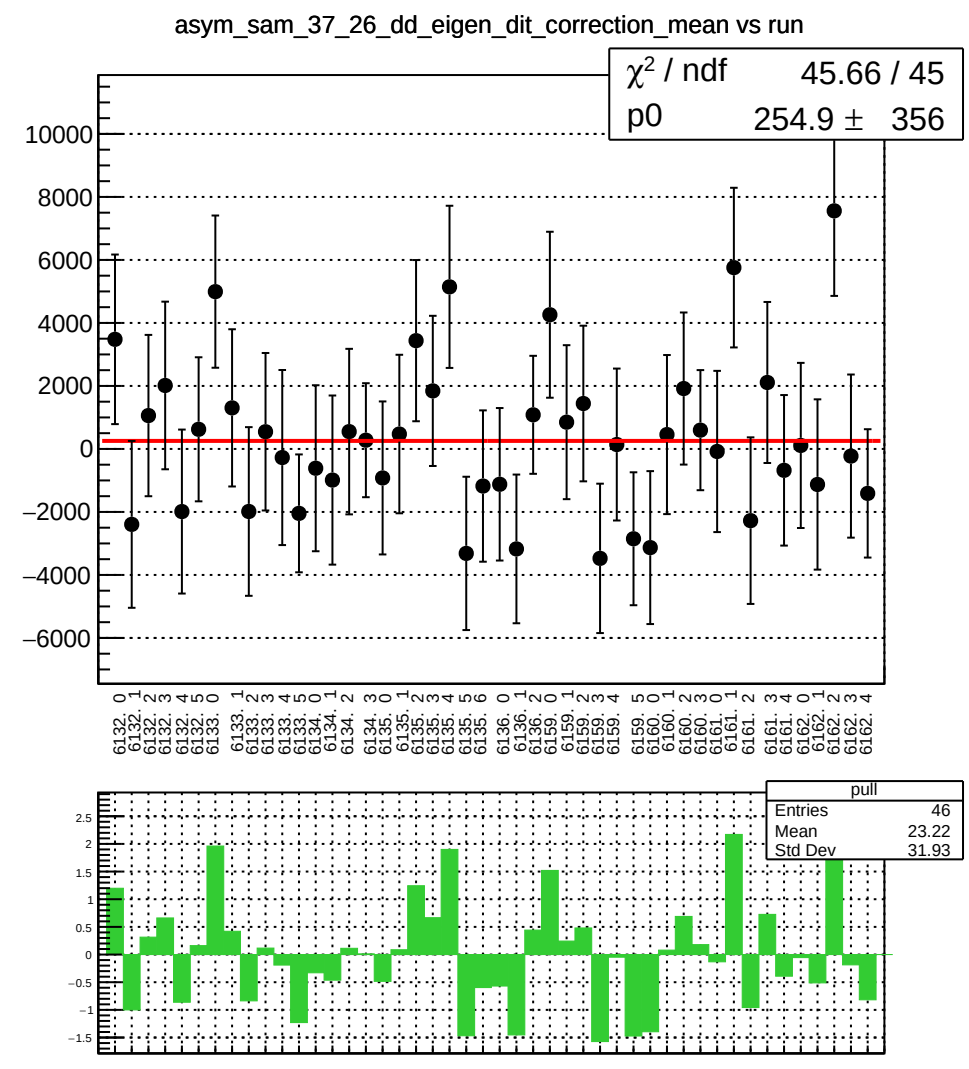
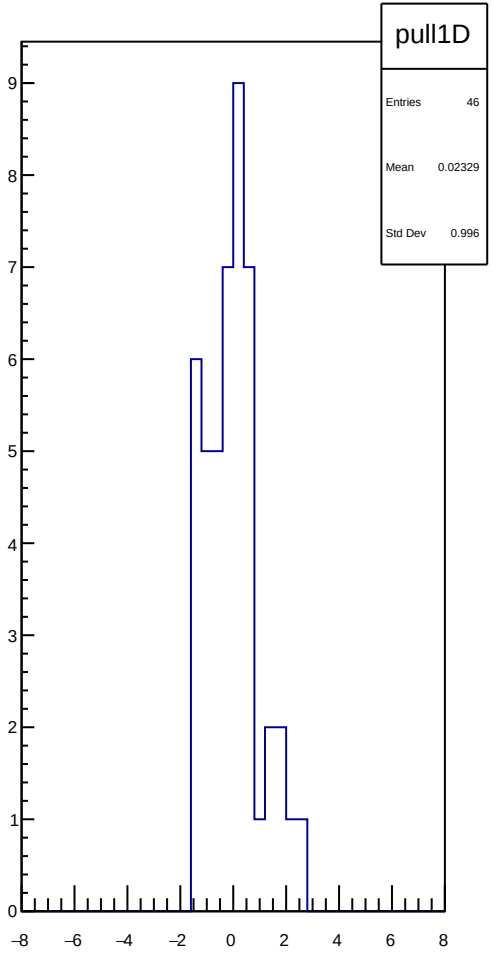
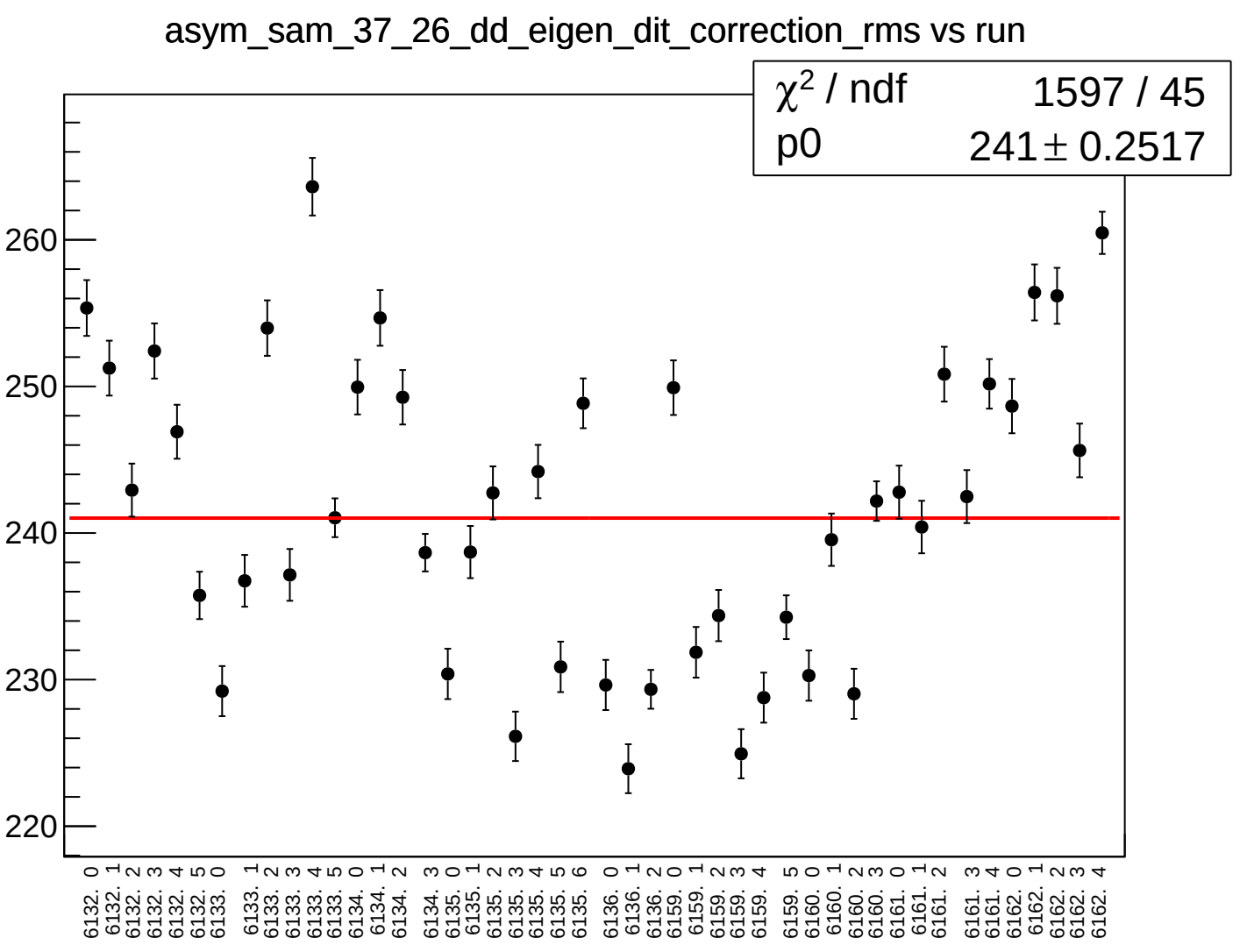
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −252.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

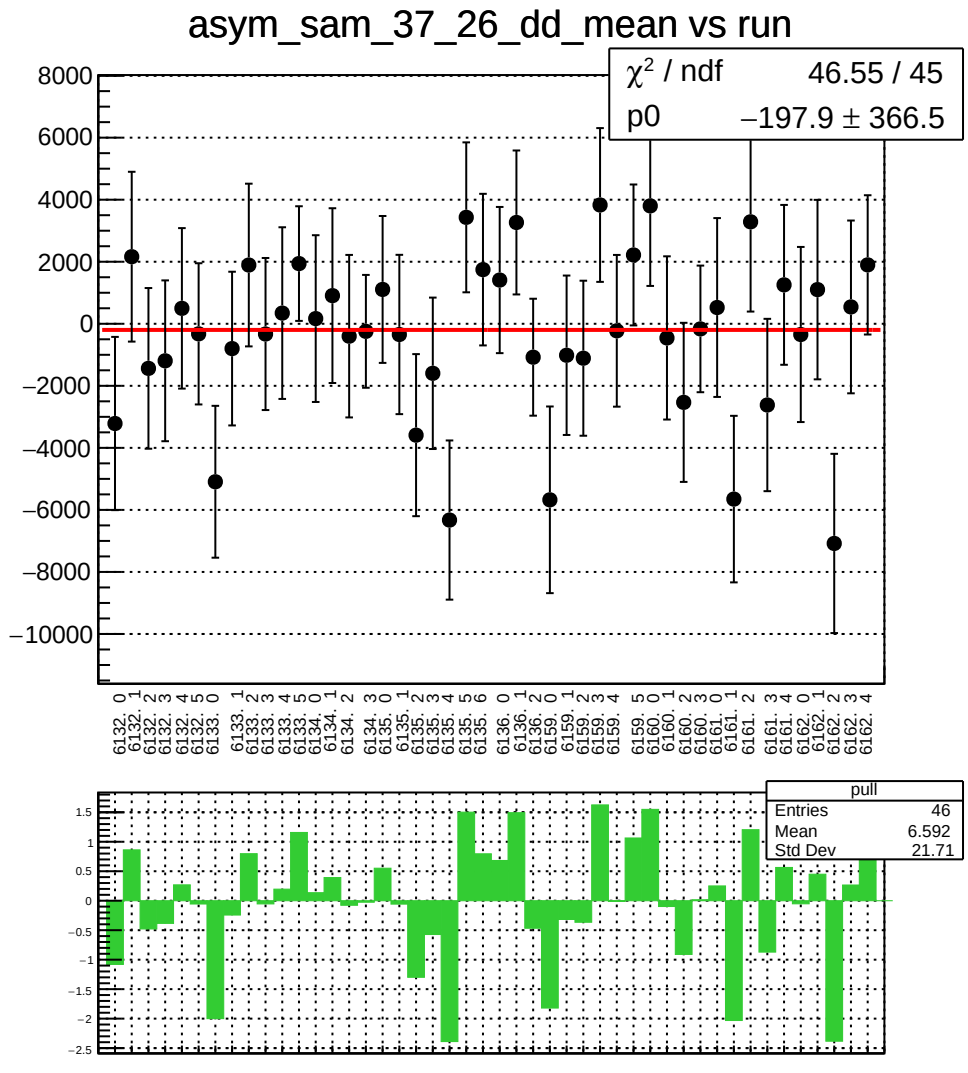

pull1D
Entries 46
Mean −0.007622
Std Dev 0.8334
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

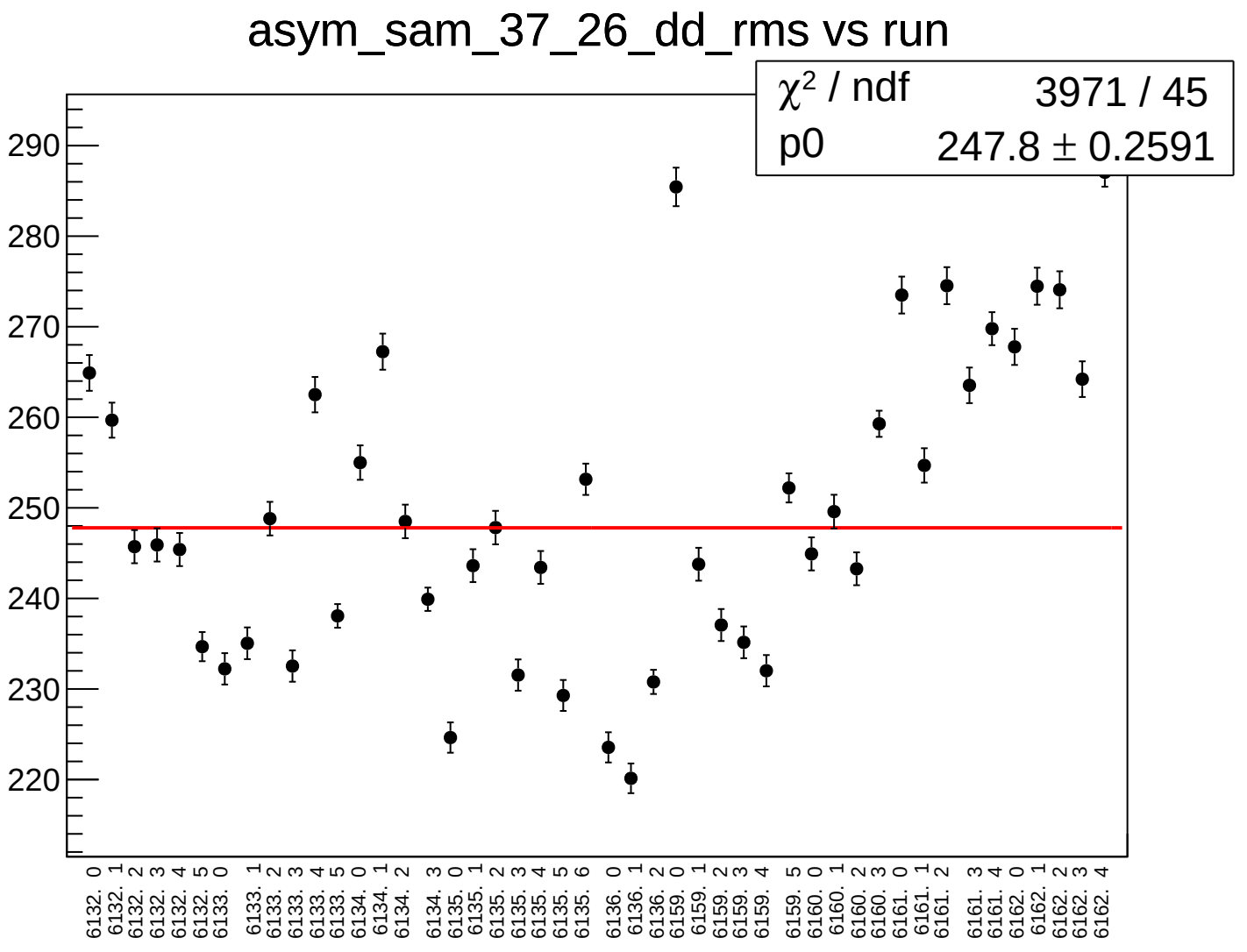

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 8684 / 45
p0 55.34 ± 0.05803
90
85
80
75
70
65
60
55
50
45
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

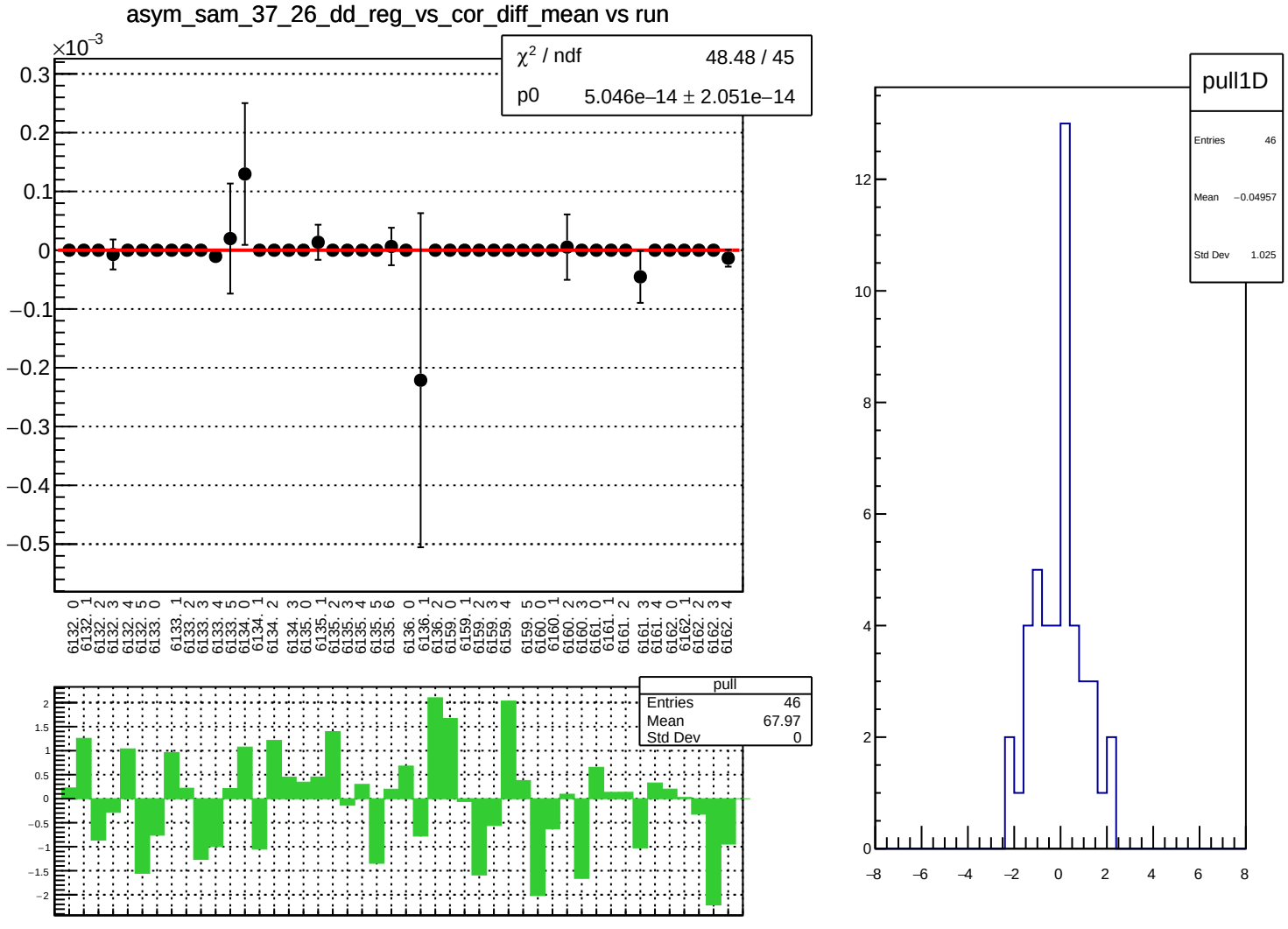

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 45.66 / 45
p0 254.9 ± 356
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 23.22
Std Dev 31.93
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

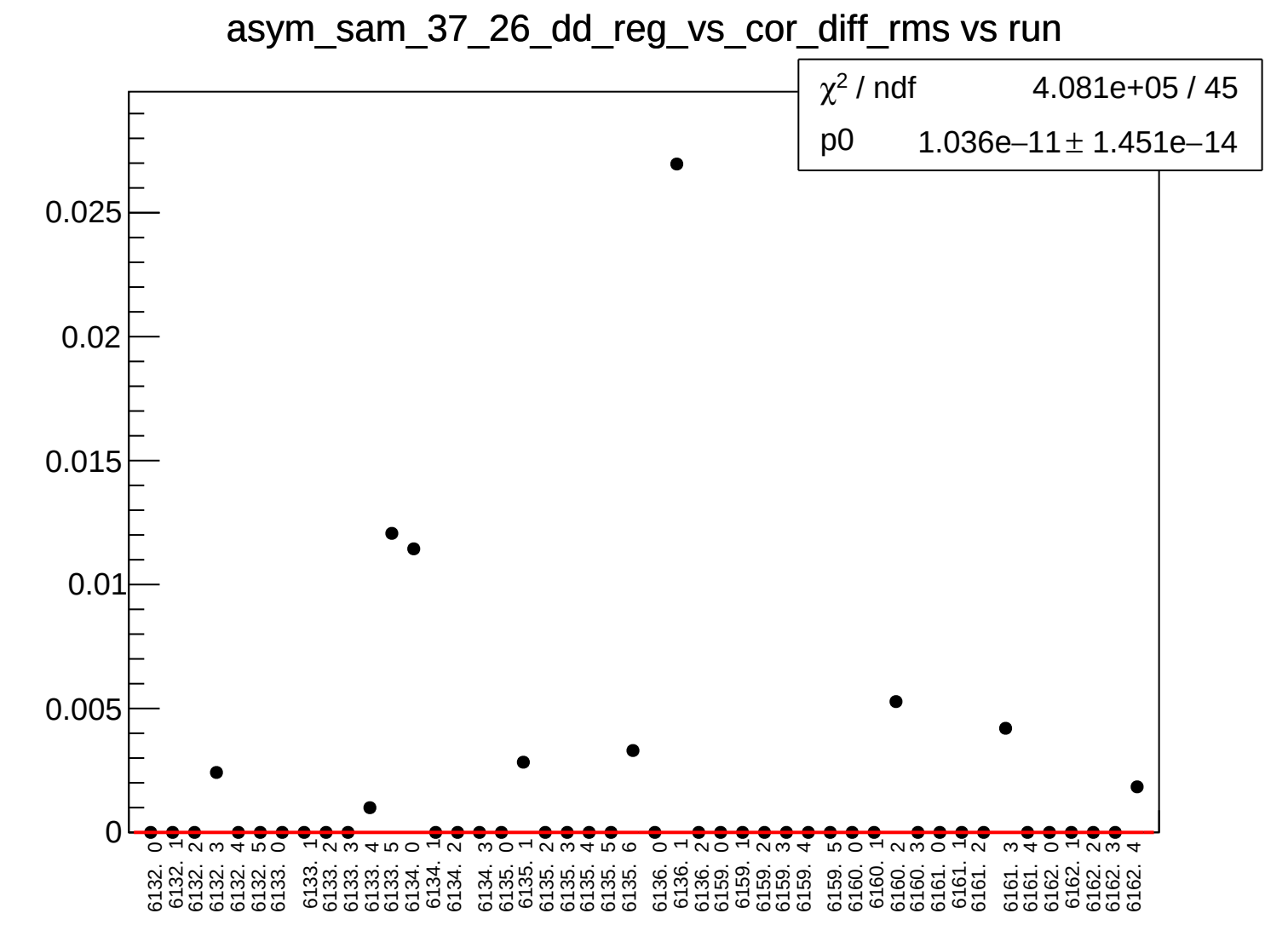

pull1D
Entries 46
Mean 0.02329
Std Dev 0.996
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

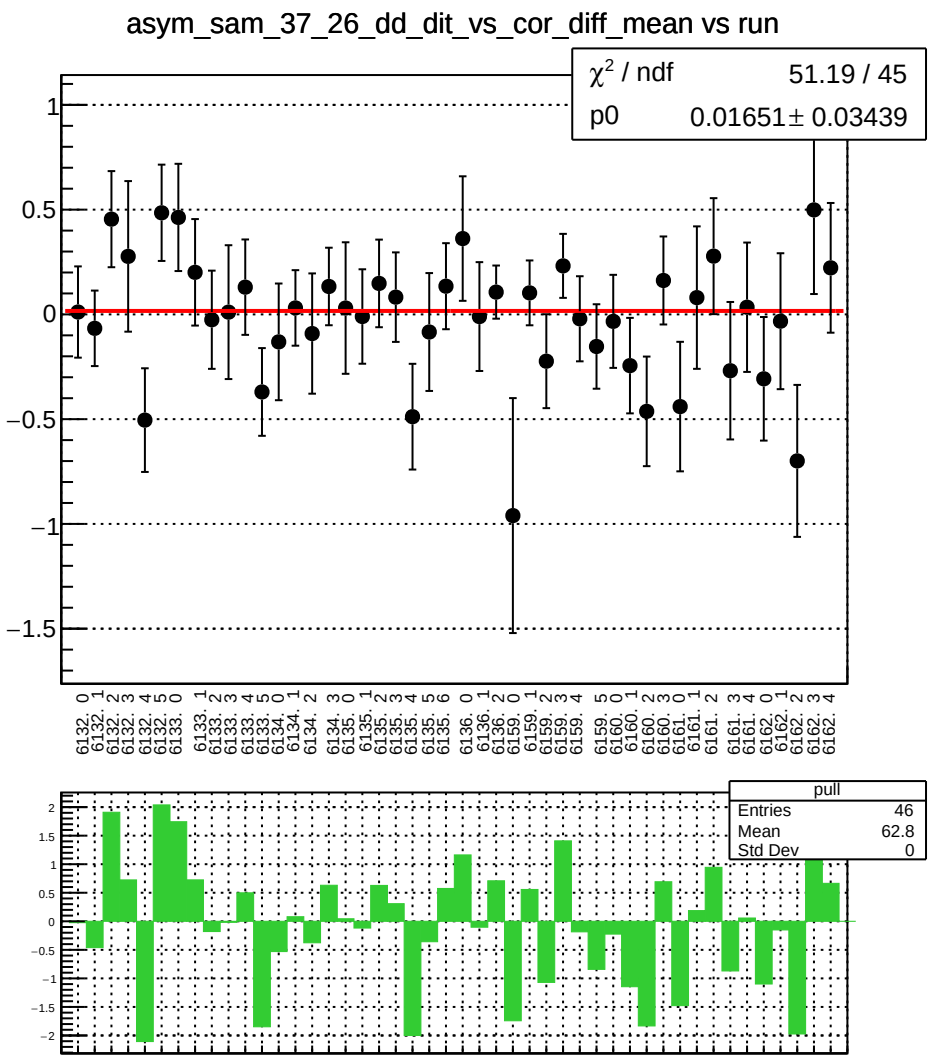

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1597 / 45
p0 241 ± 0.2517
260
250
240
230
220
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

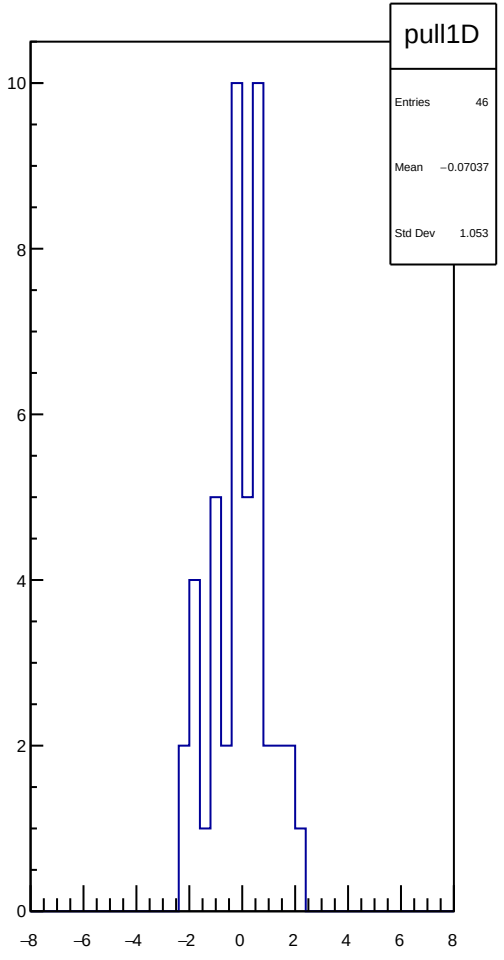

asym_sam_37_26_dd_mean vs run
χ² / ndf 46.55 / 45
p0 −197.9 ± 366.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 6.592
Std Dev 21.71
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.028
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

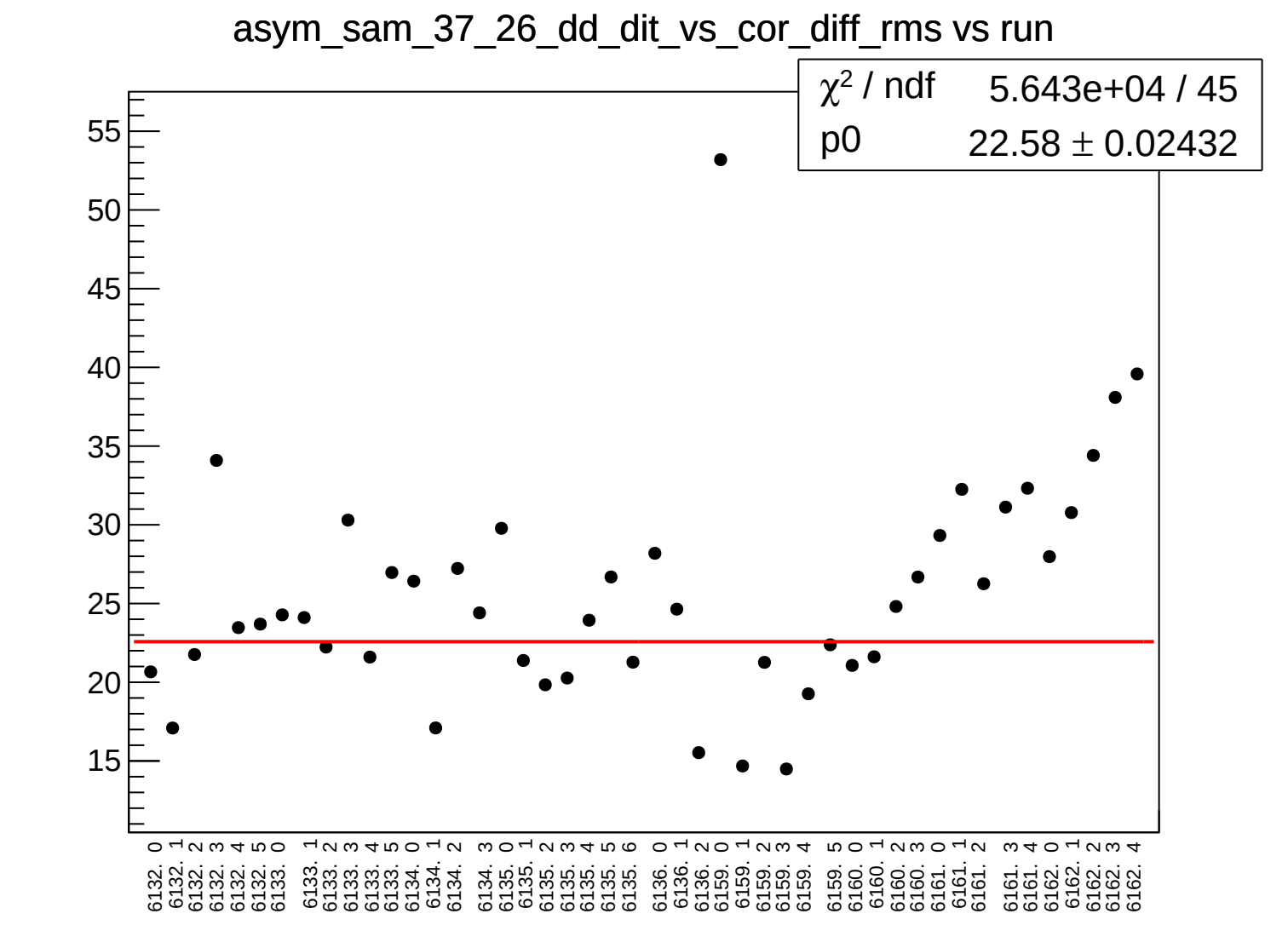

asym_sam_37_26_dd_rms vs run
χ² / ndf 3971 / 45
p0 247.8 ± 0.2591
290
280
270
260
250
240
230
220
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

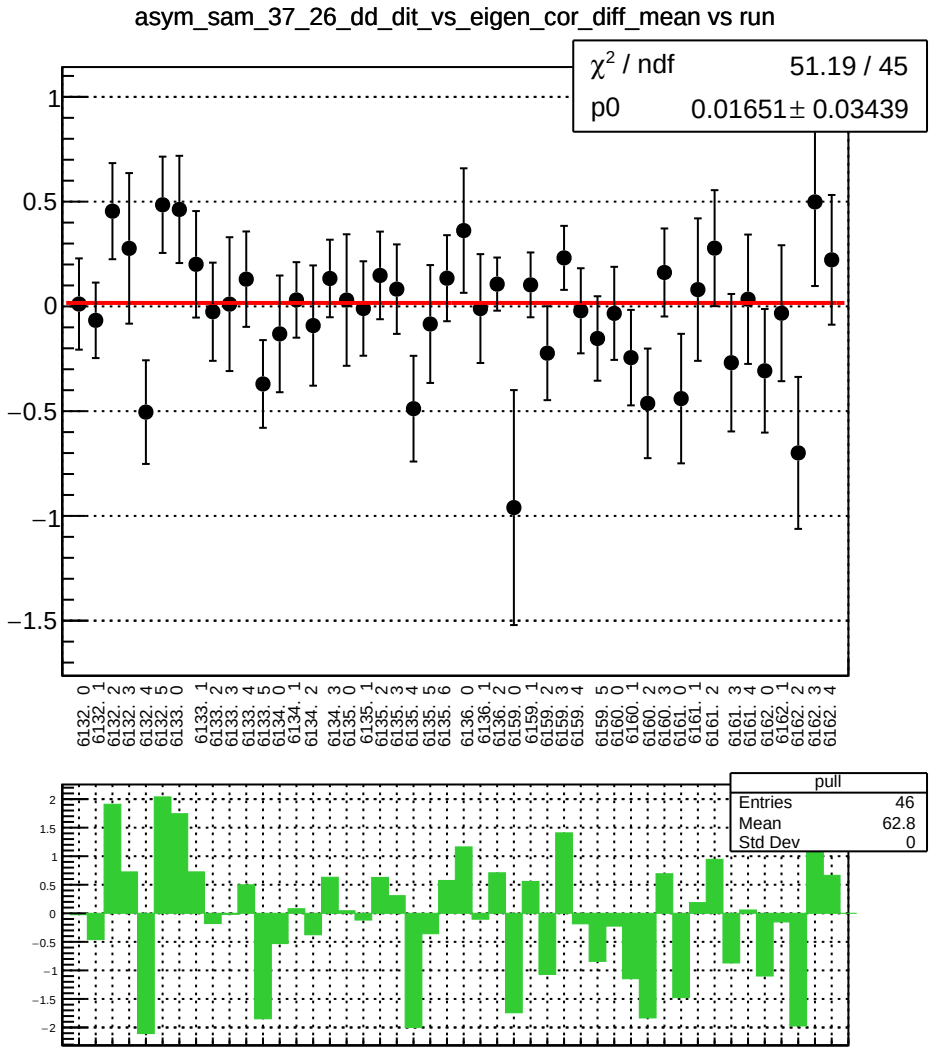

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 48.48 / 45
p0 5.046e−14 ± 2.051e−14
pull
Entries 46
Mean 67.97
Std Dev 0
pull1D
Entries 46
Mean −0.04957
Std Dev 1.025

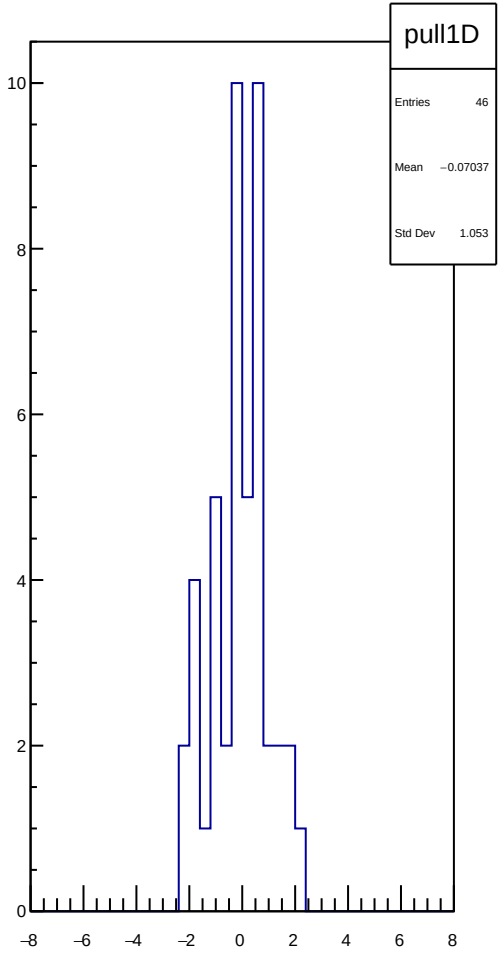

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.081e+05 / 45
p0 1.036e−11 ± 1.451e−14
0.025
0.02
0.015
0.01
0.005
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

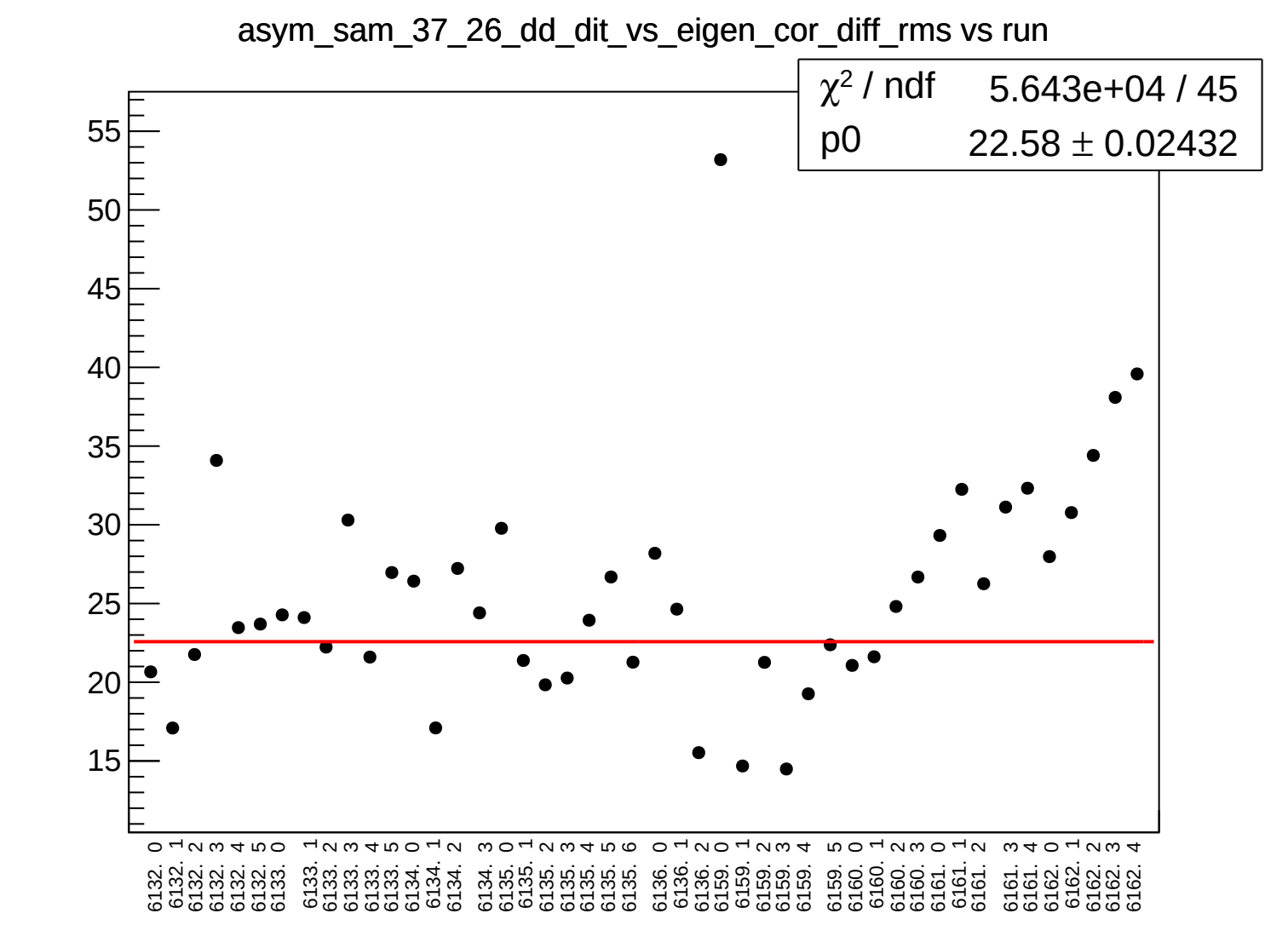

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 51.19 / 45
p0 0.01651 ± 0.03439
pull
Entries 46
Mean 62.8
Std Dev 0

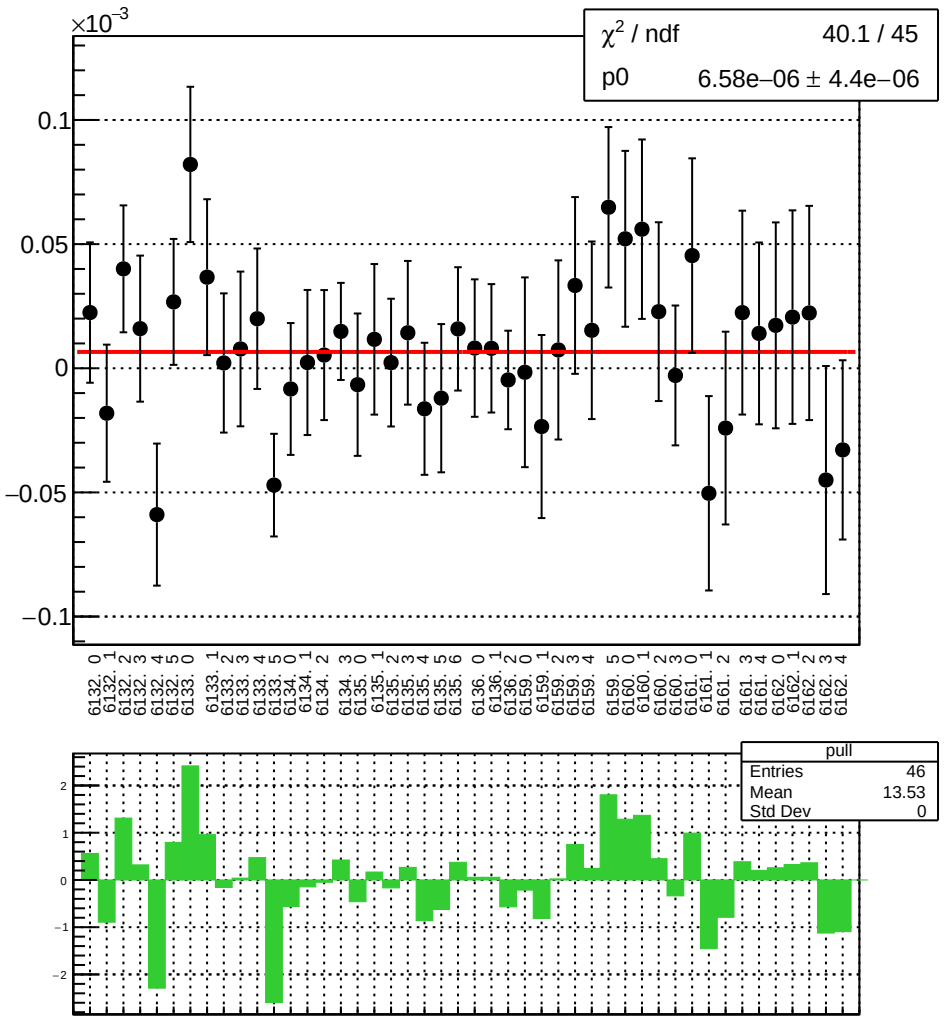

pull1D
Entries 46
Mean −0.07037
Std Dev 1.053

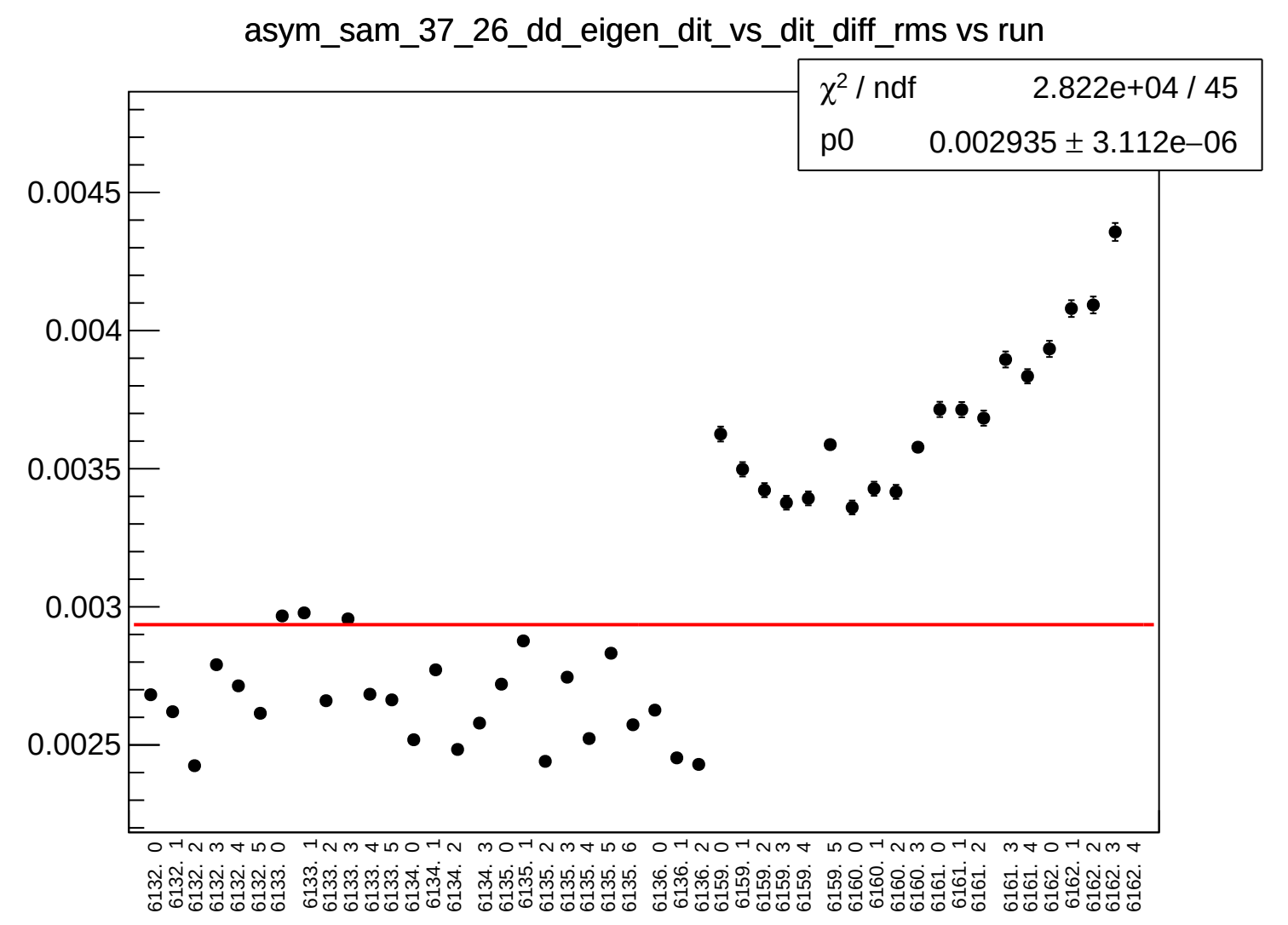

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.643e+04 / 45
p0 22.58 ± 0.02432
55
50
45
40
35
30
25
20
15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

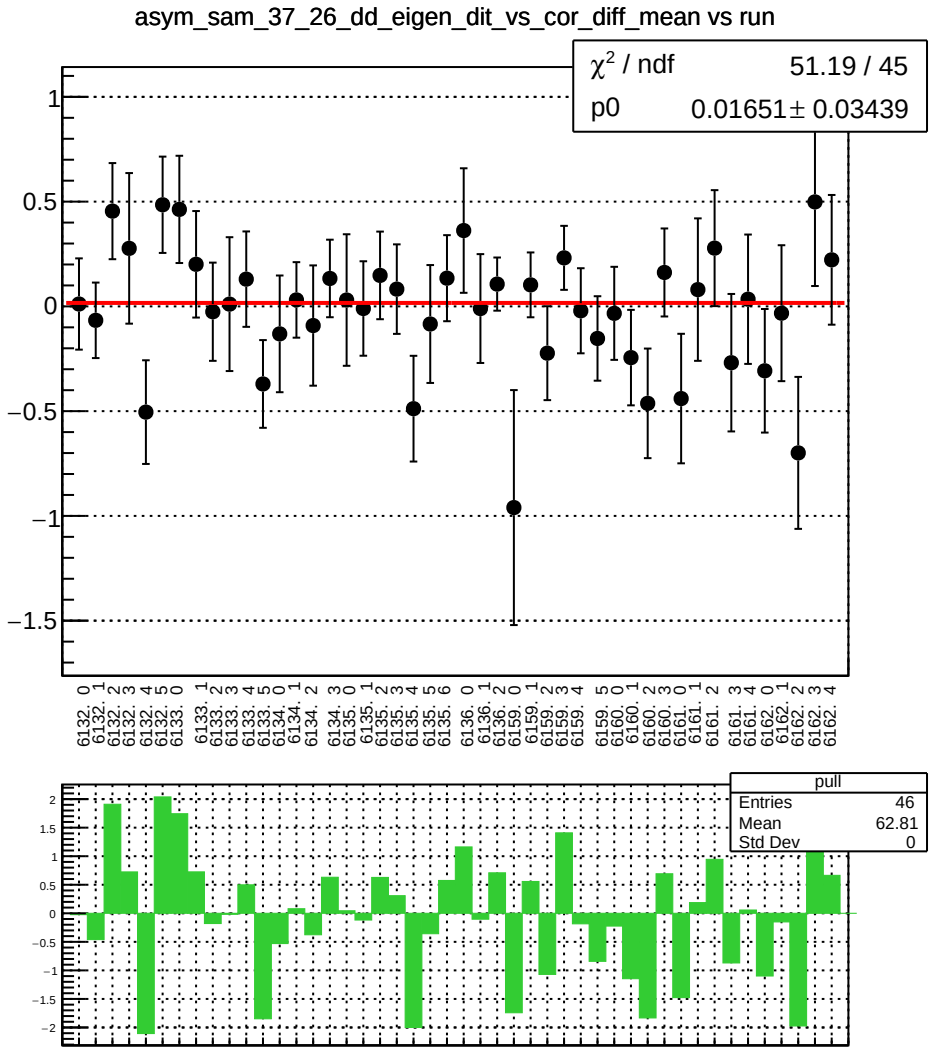

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.19 / 45
p0 0.01651 ± 0.03439
pull
Entries 46
Mean 62.8
Std Dev 0

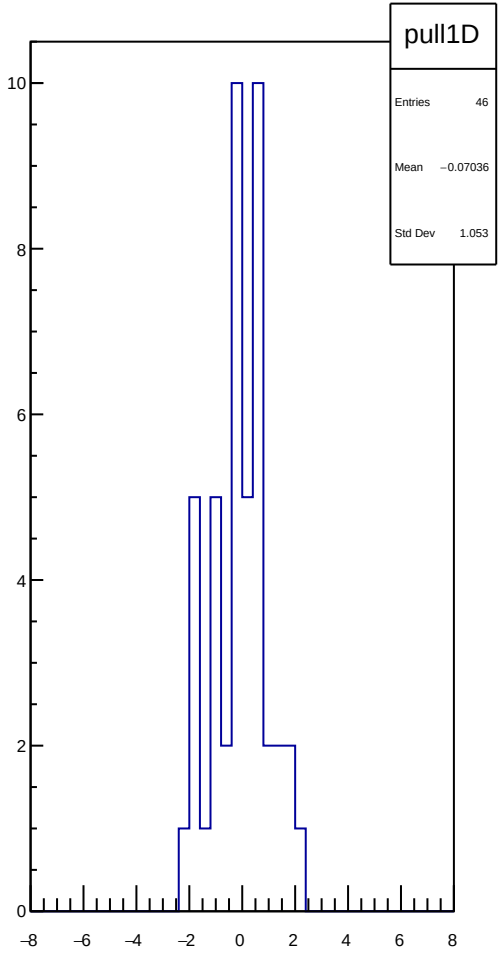

pull1D
Entries 46
Mean −0.07037
Std Dev 1.053

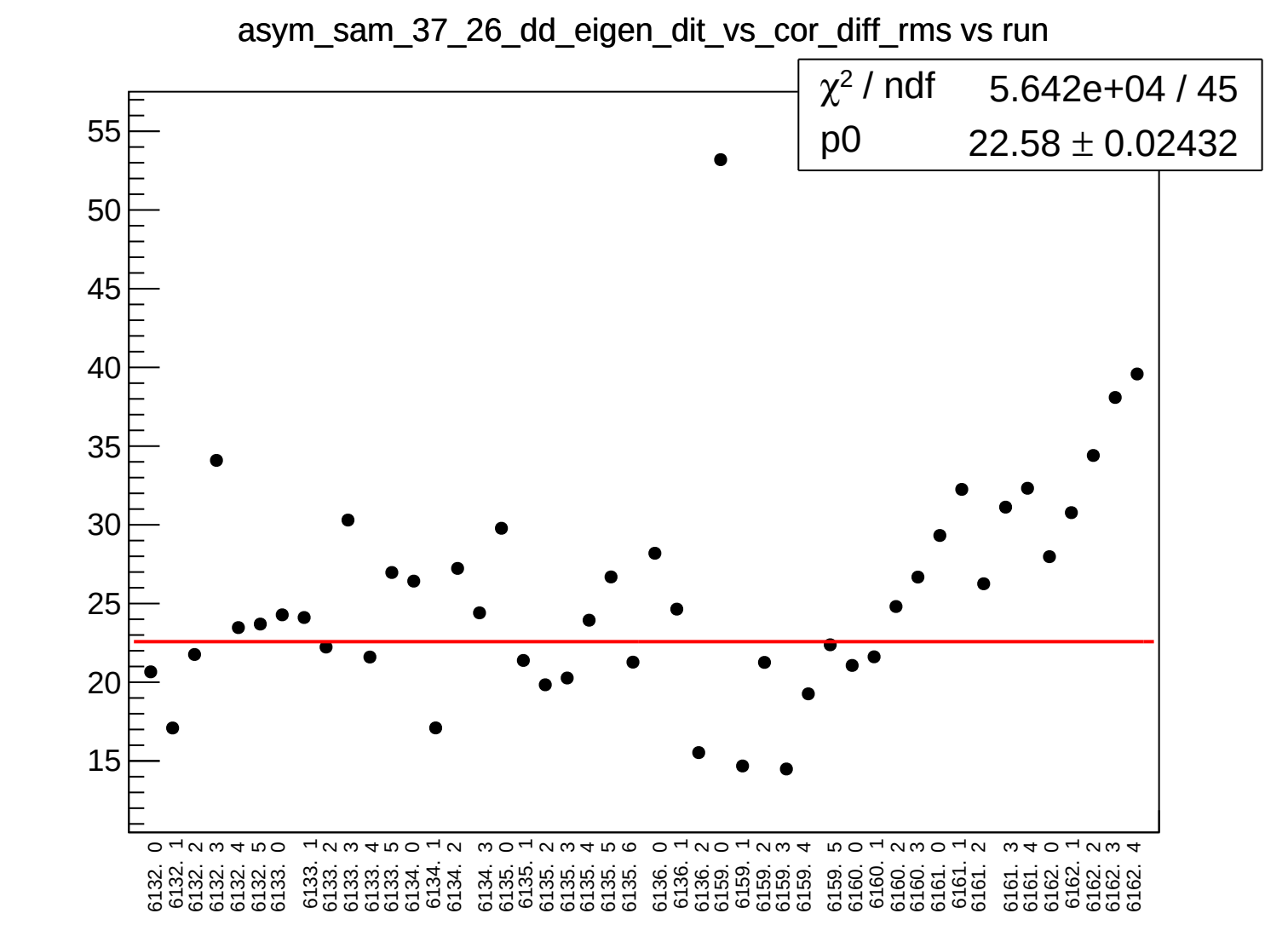

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.643e+04 / 45
p0 22.58 ± 0.02432
55
50
45
40
35
30
25
20
15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

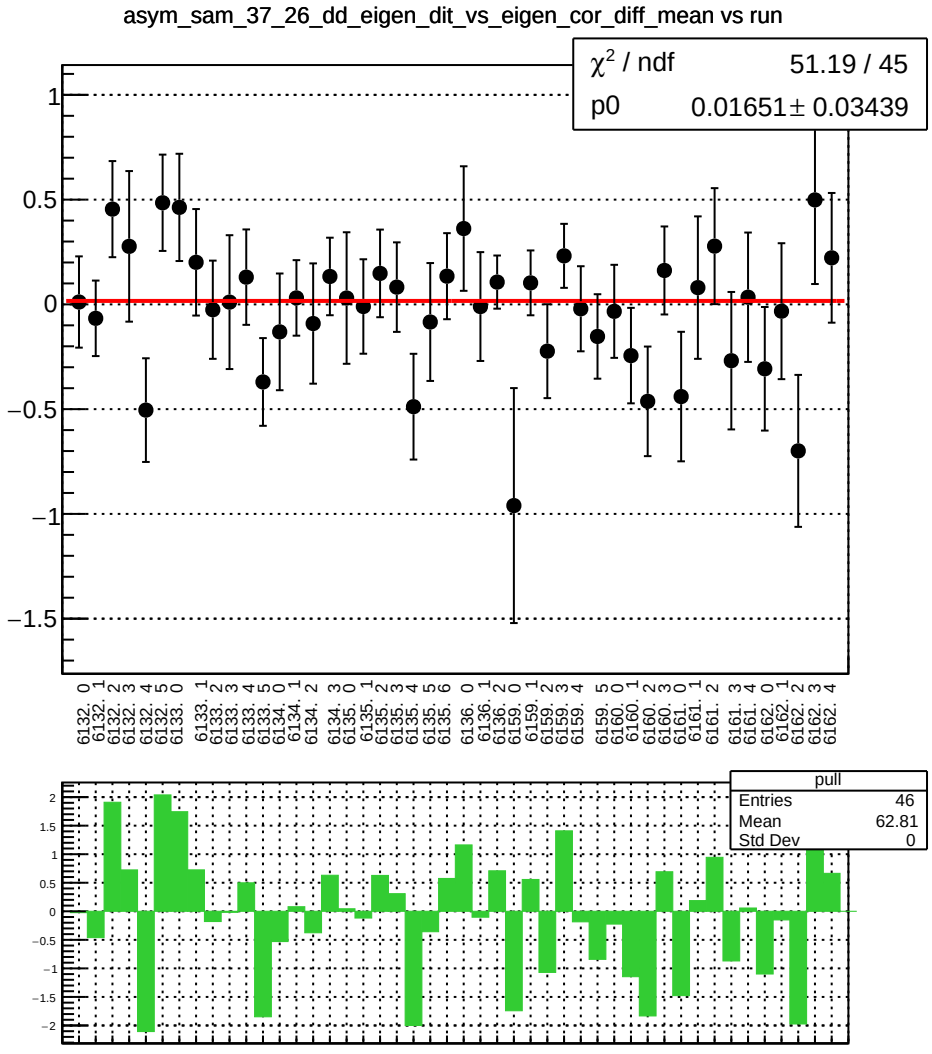

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 40.1 / 45
p0 6.58e−06 ± 4.4e−06
0.1
0.05
0
−0.05
−0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 13.53
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.03177
Std Dev 0.9332
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

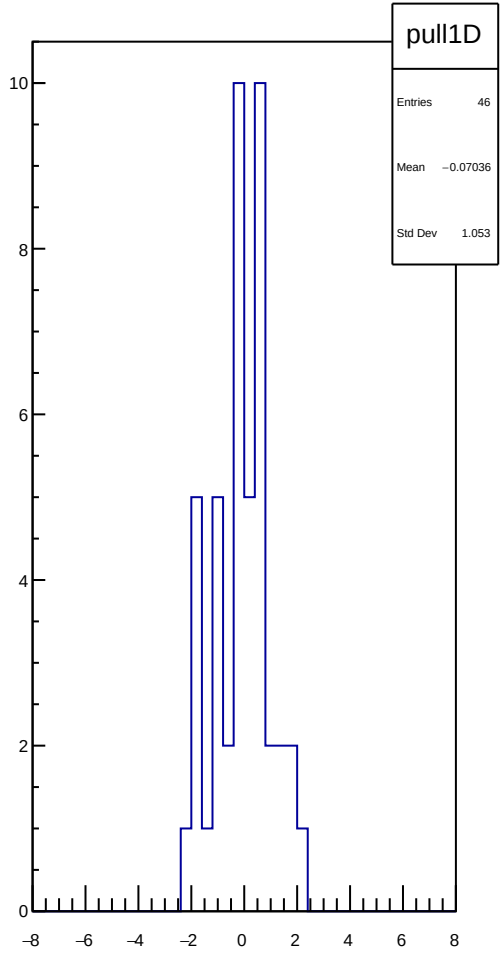

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.822e+04 / 45
p0 0.002935 ± 3.112e−06
0.0045
0.004
0.0035
0.003
0.0025
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

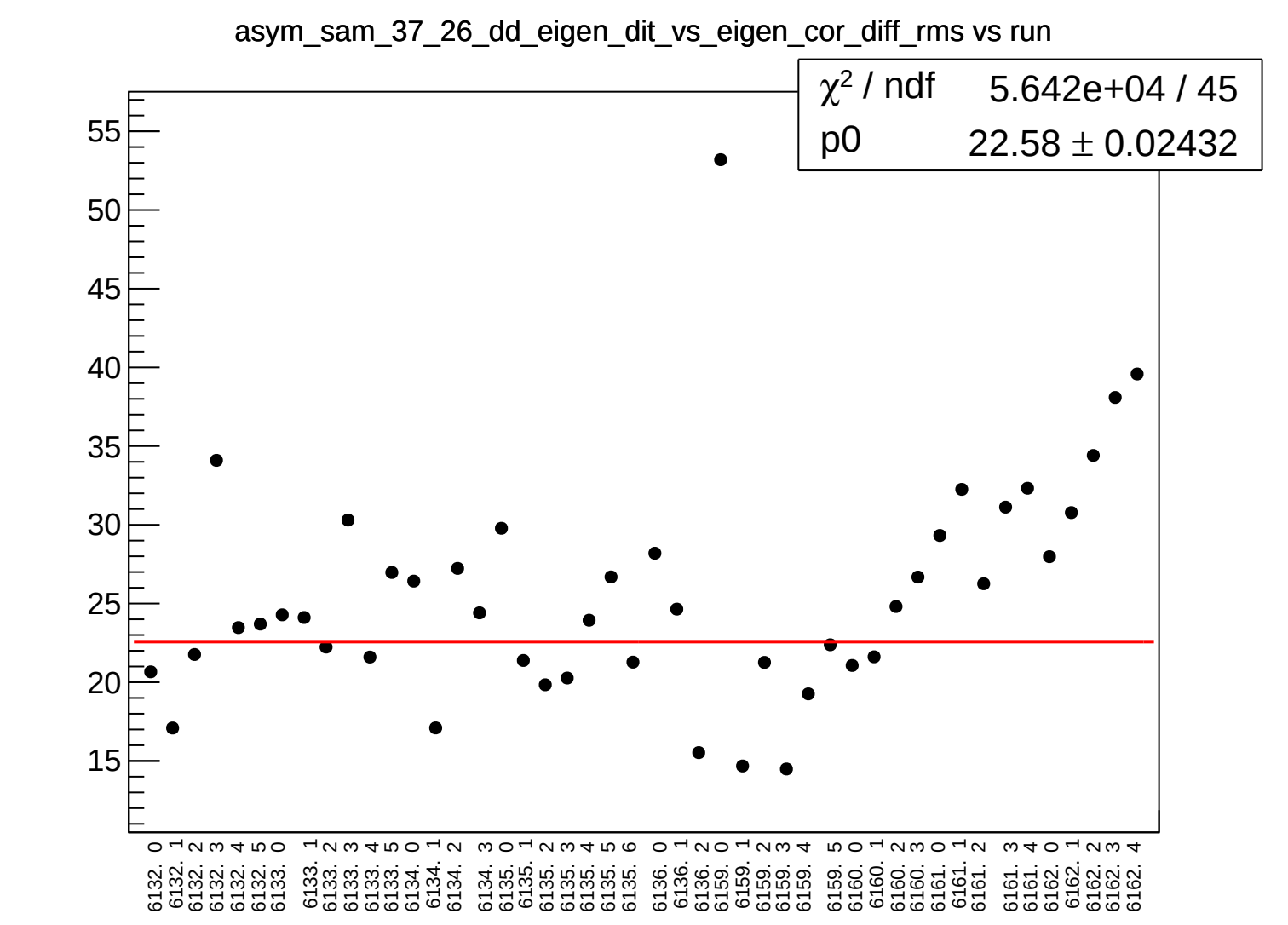

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 51.19 / 45
p0 0.01651 ± 0.03439
pull
Entries 46
Mean 62.81
Std Dev 0

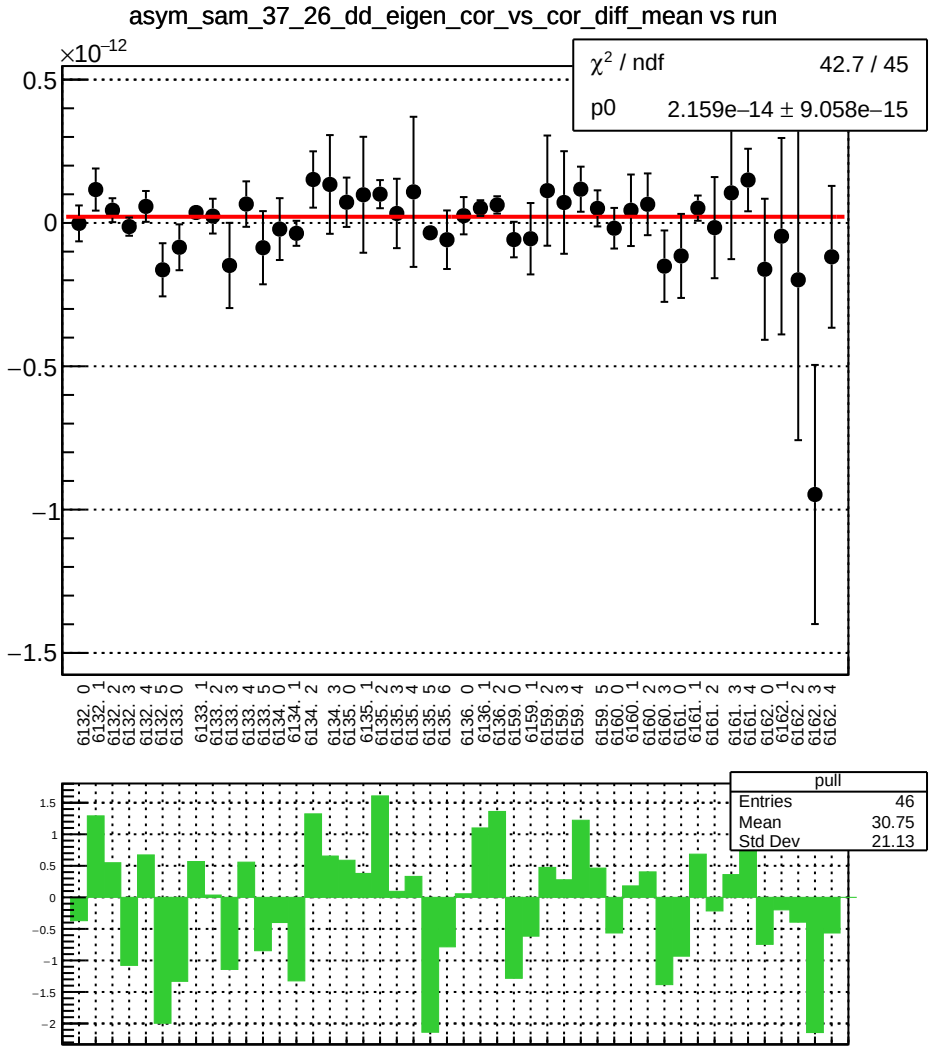

pull1D
Entries 46
Mean −0.07036
Std Dev 1.053

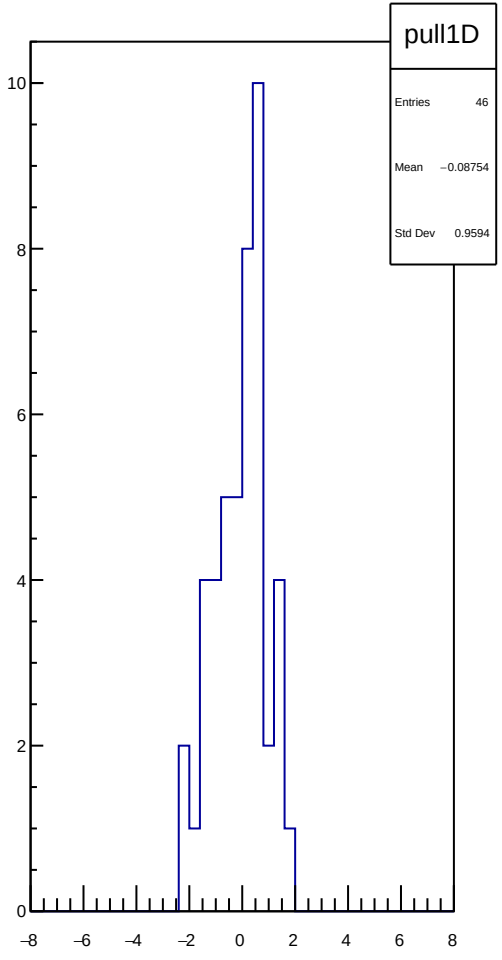

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.642e+04 / 45
p0 22.58 ± 0.02432
55
50
45
40
35
30
25
20
15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

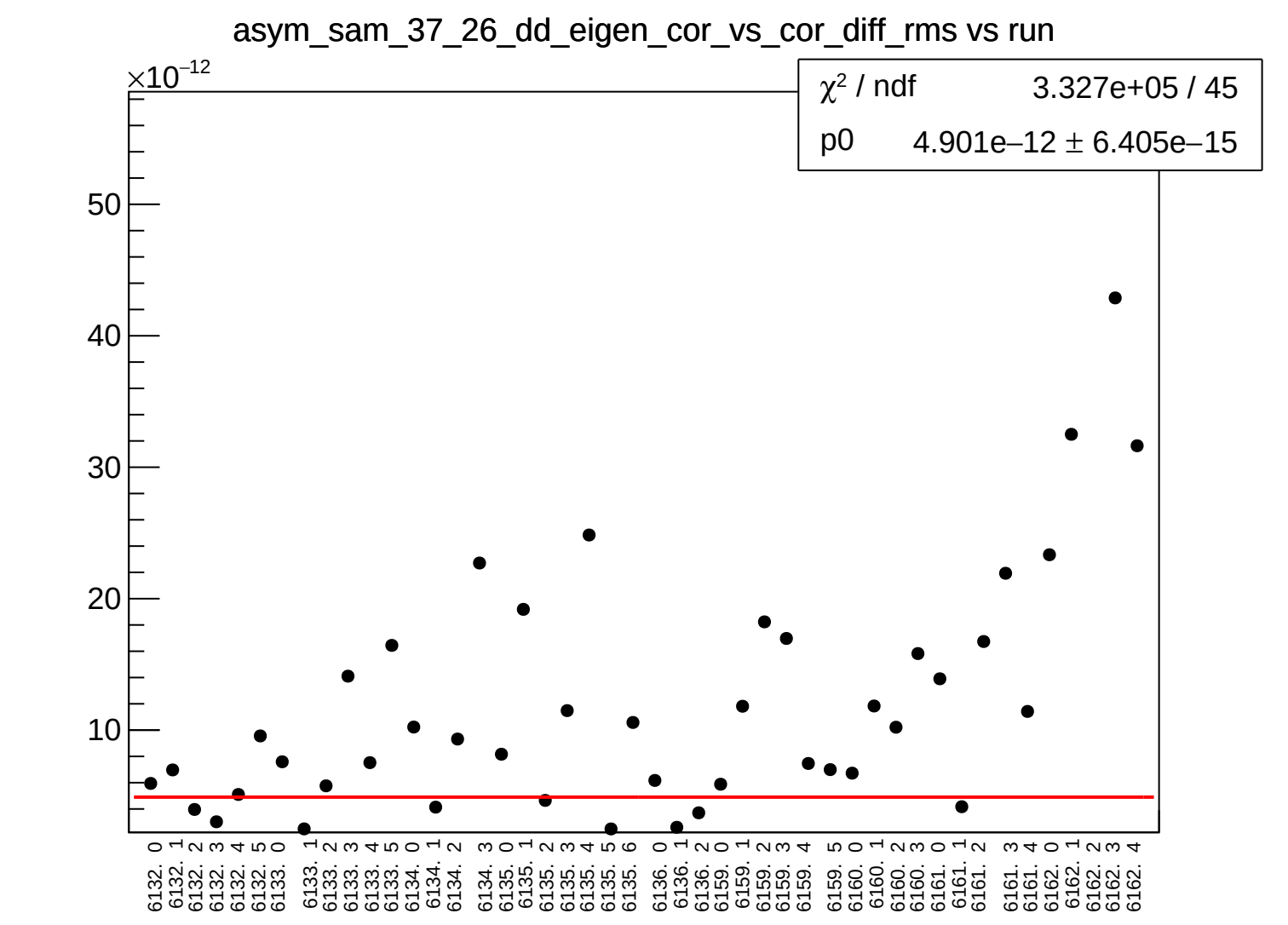

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.19 / 45
p0 0.01651 ± 0.03439
pull
Entries 46
Mean 62.81
Std Dev 0

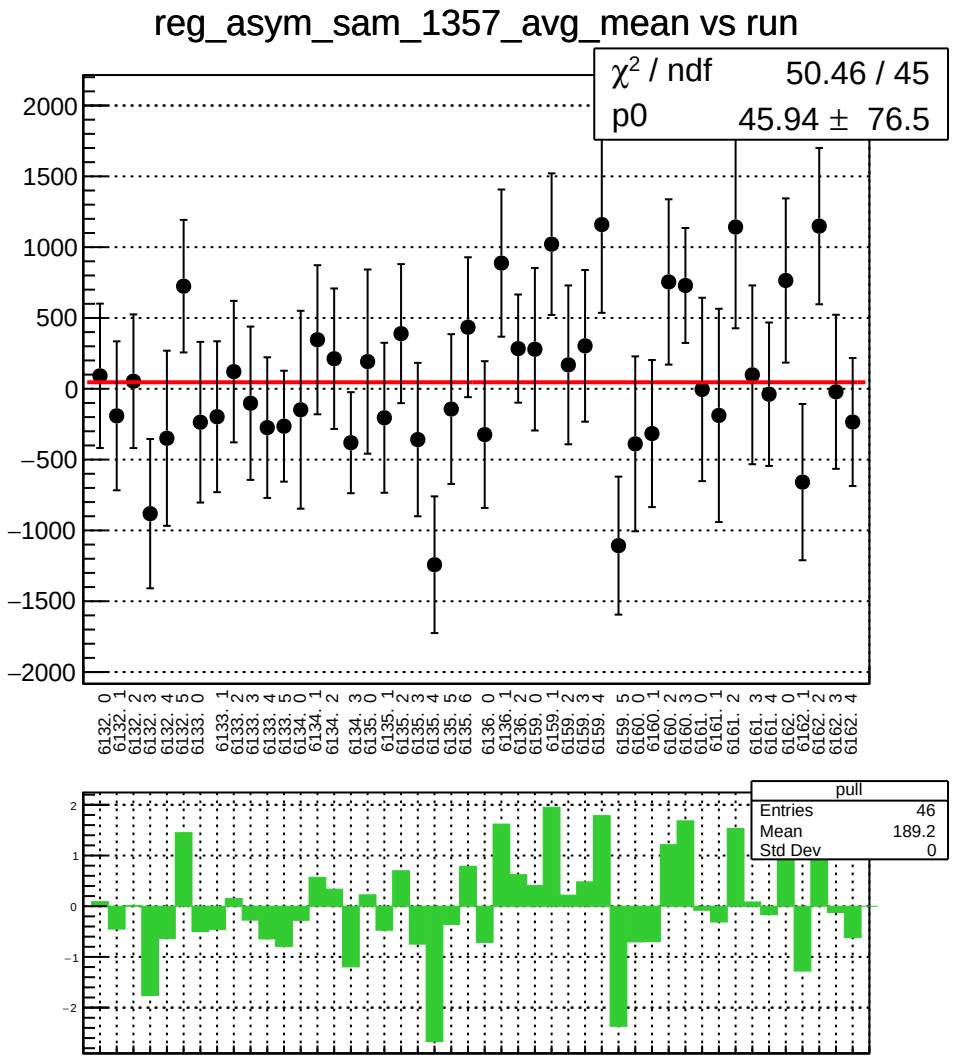

pull1D
Entries 46
Mean −0.07036
Std Dev 1.053

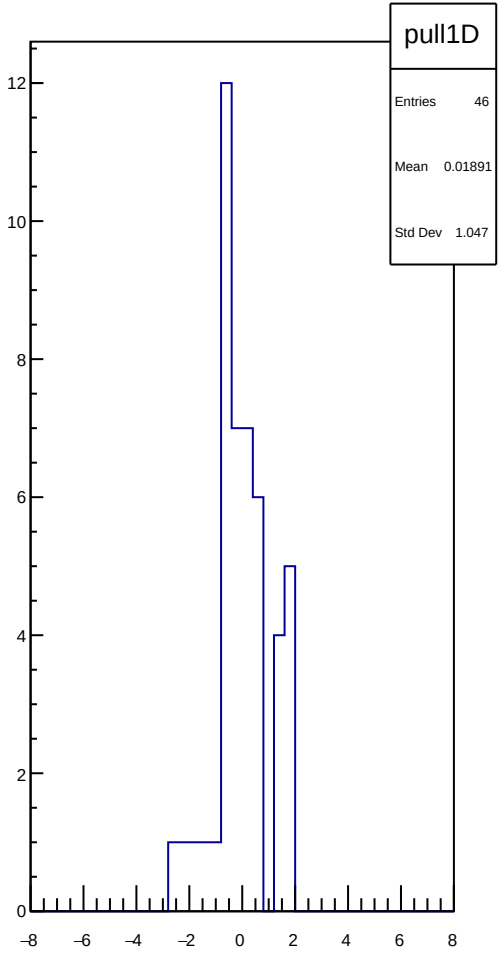

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.642e+04 / 45
p0 22.58 ± 0.02432
55
50
45
40
35
30
25
20
15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

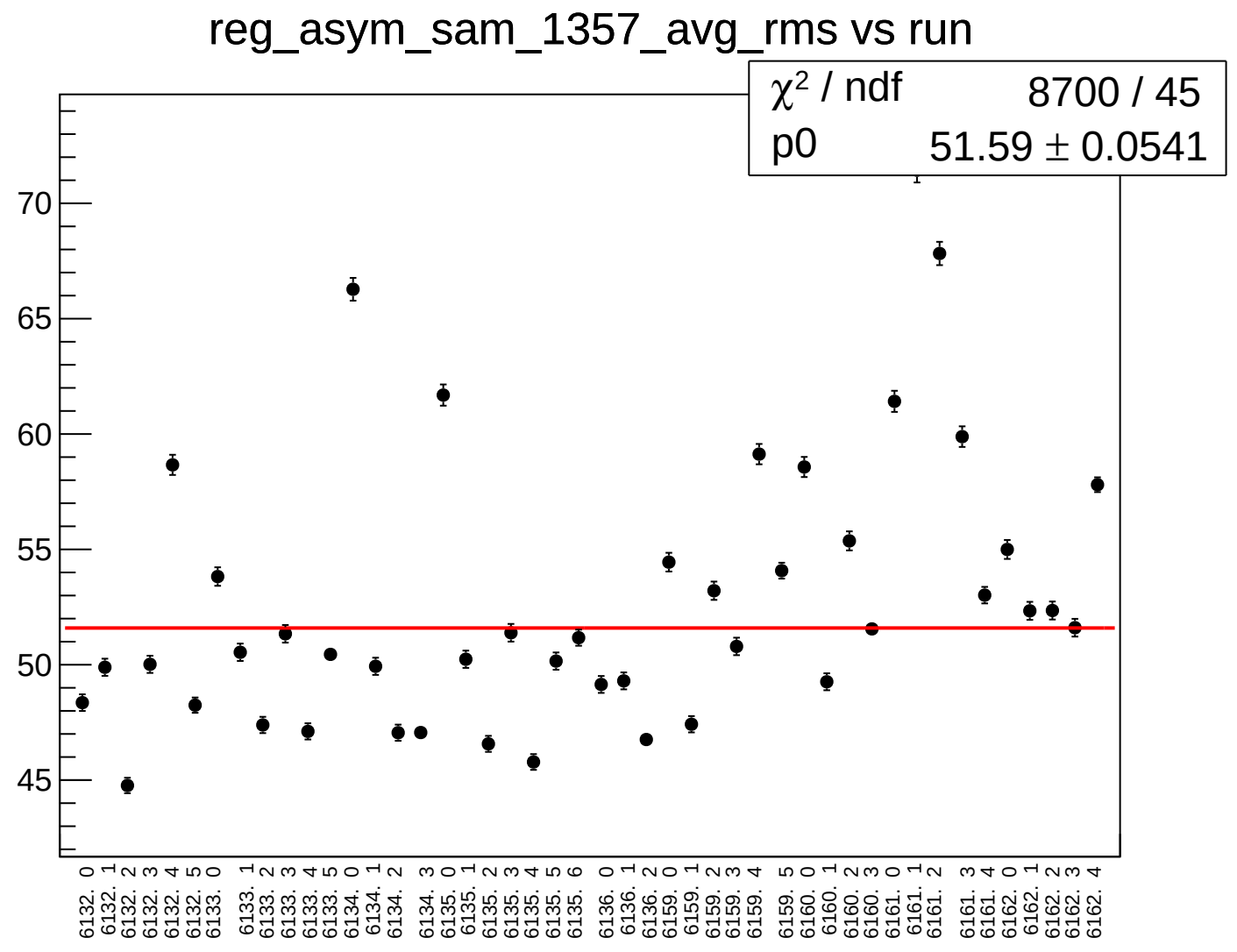

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 42.7 / 45
p0 2.159e−14 ± 9.058e−15
pull
Entries 46
Mean 30.75
Std Dev 21.13

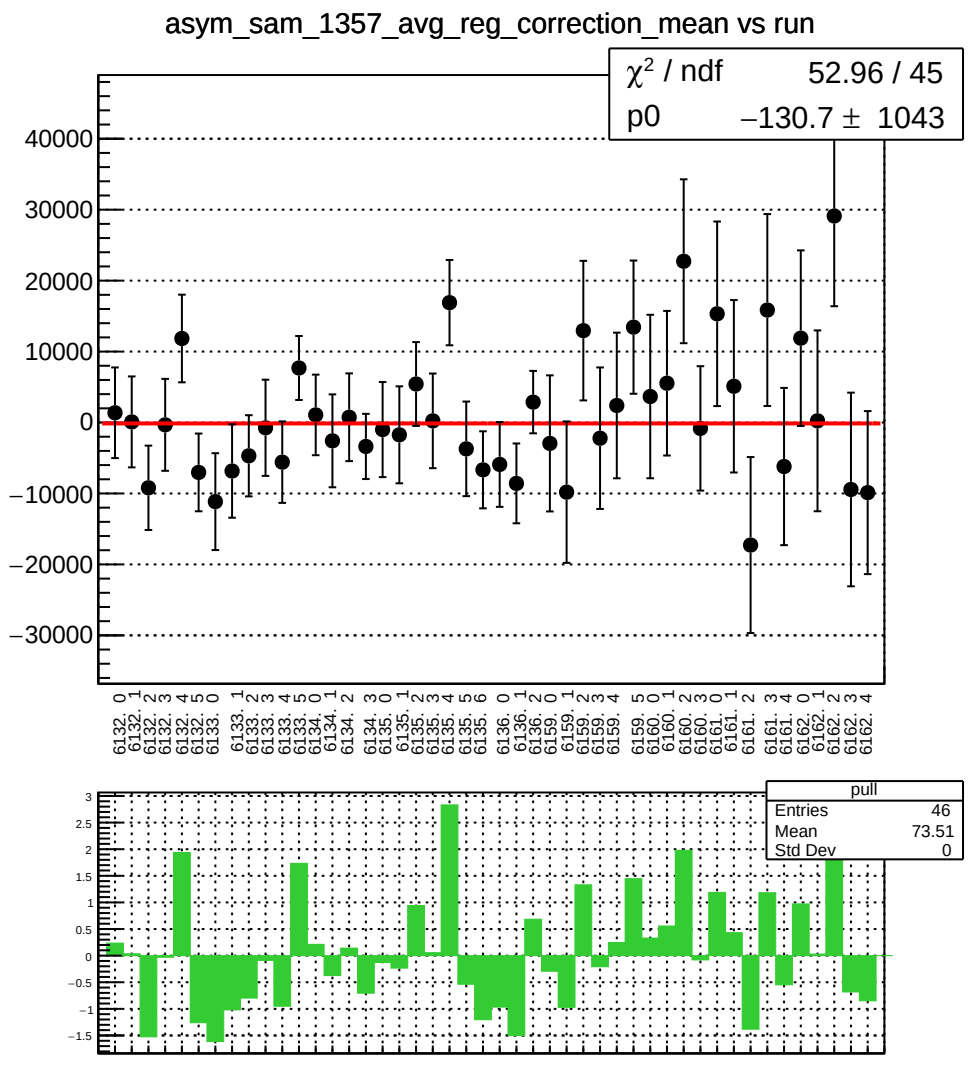

pull1D
Entries 46
Mean −0.08754
Std Dev 0.9594

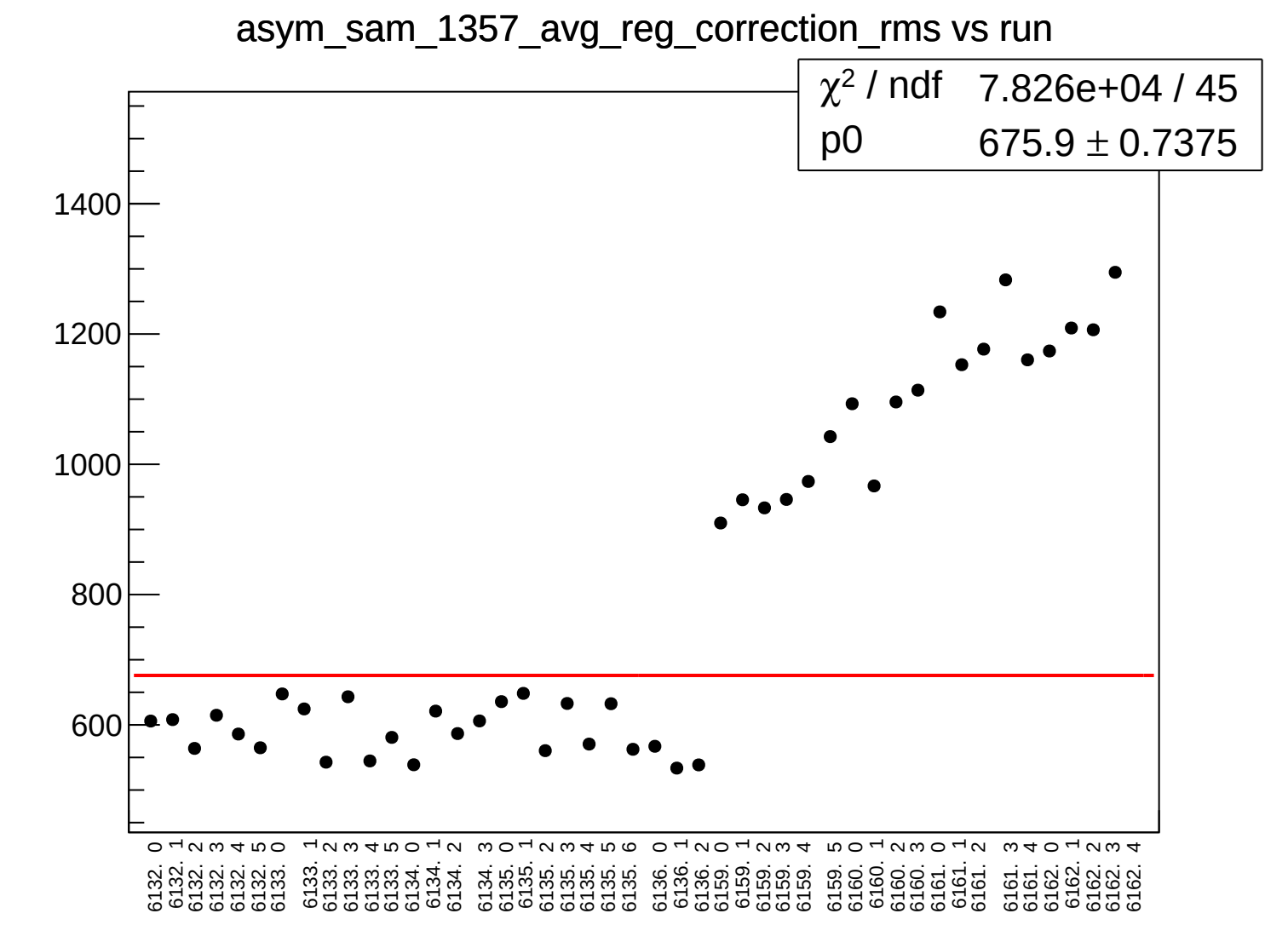

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.327e+05 / 45
p0 4.901e−12 ± 6.405e−15
50
40
30
20
10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

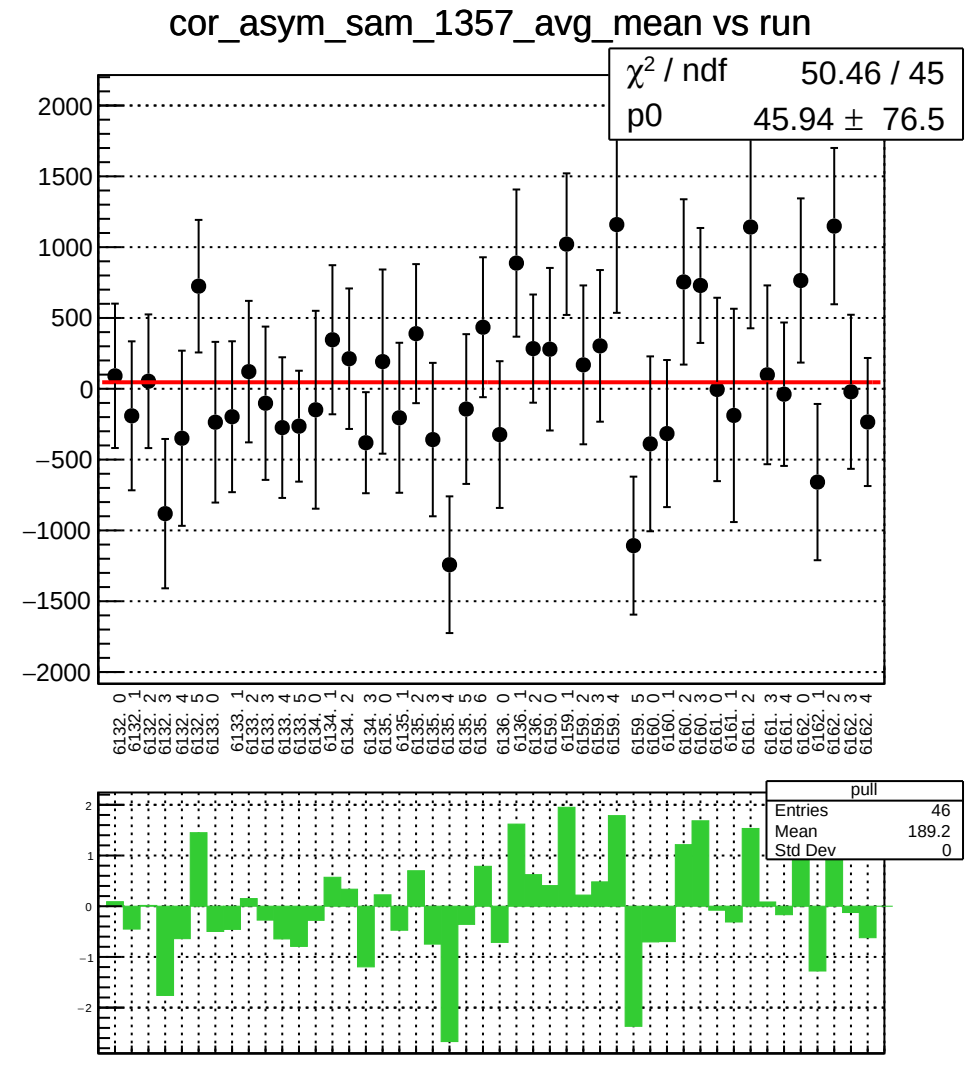

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 50.46 / 45
p0 45.94 ± 76.5
pull
Entries 46
Mean 189.2
Std Dev 0

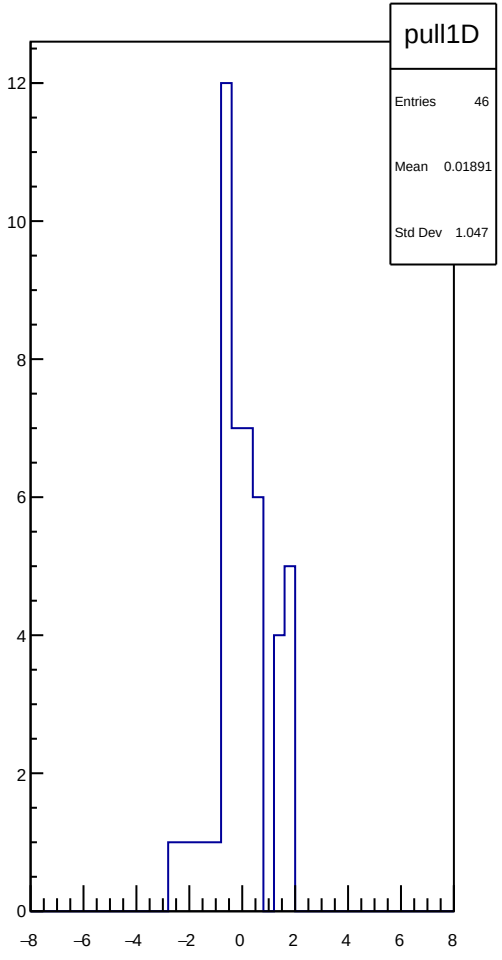

pull1D
Entries 46
Mean 0.01891
Std Dev 1.047

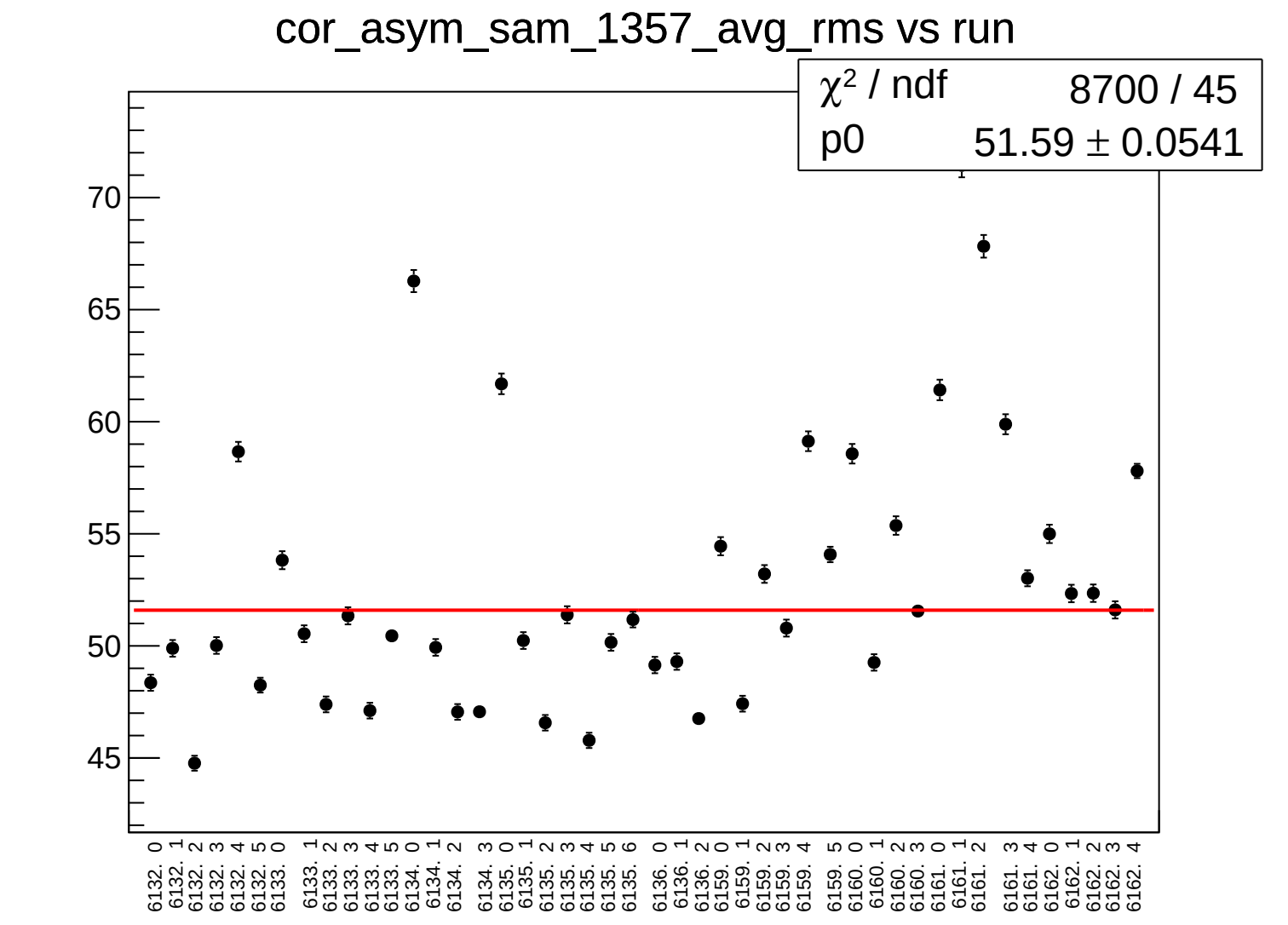

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 8700 / 45
p0 51.59 ± 0.0541
70
65
60
55
50
45
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 52.96 / 45
p0 −130.7 ± 1043
40000
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 73.51
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.06186
Std Dev 1.071
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 7.826e+04 / 45
p0 675.9 ± 0.7375
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_sam_1357_avg_mean vs run
χ² / ndf 50.46 / 45
p0 45.94 ± 76.5
pull
Entries 46
Mean 189.2
Std Dev 0


pull1D
Entries 46
Mean 0.01891
Std Dev 1.047


cor_asym_sam_1357_avg_rms vs run
χ² / ndf 8700 / 45
p0 51.59 ± 0.0541
70
65
60
55
50
45
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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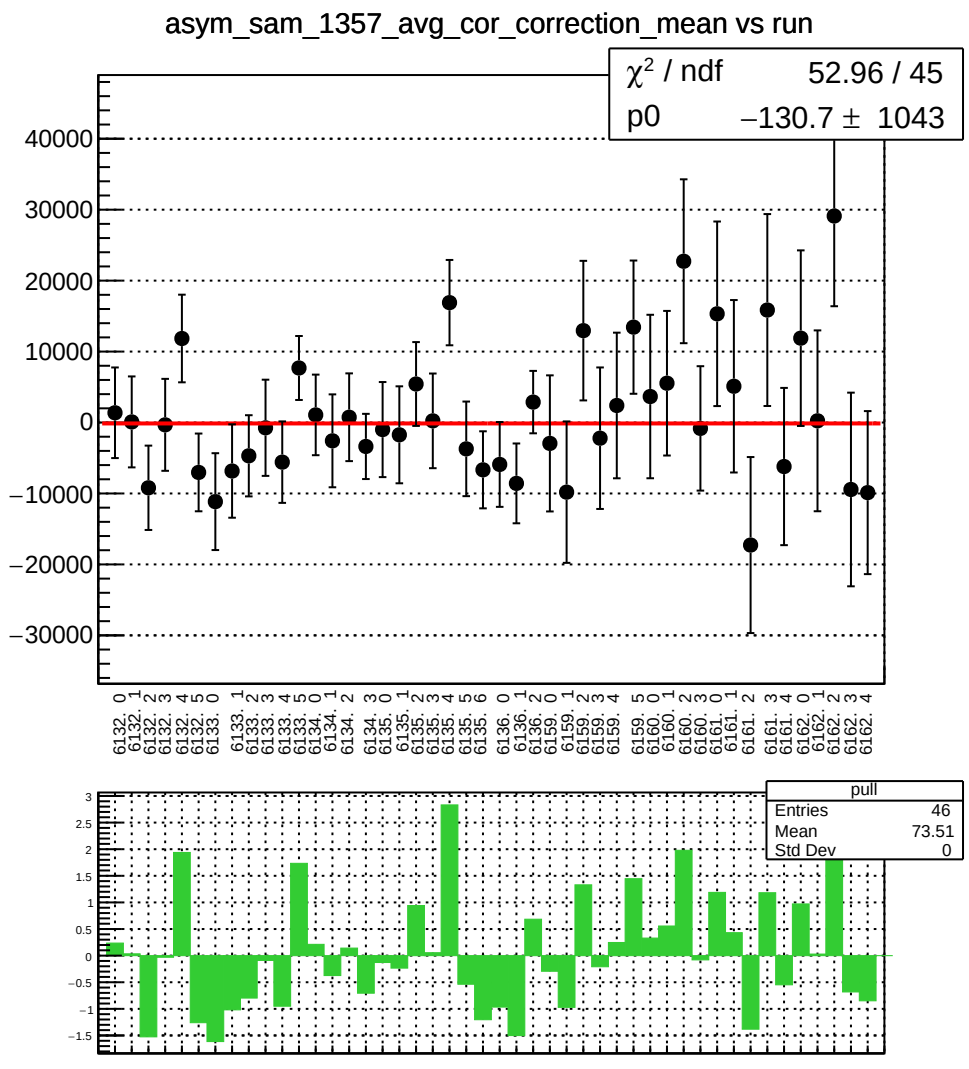
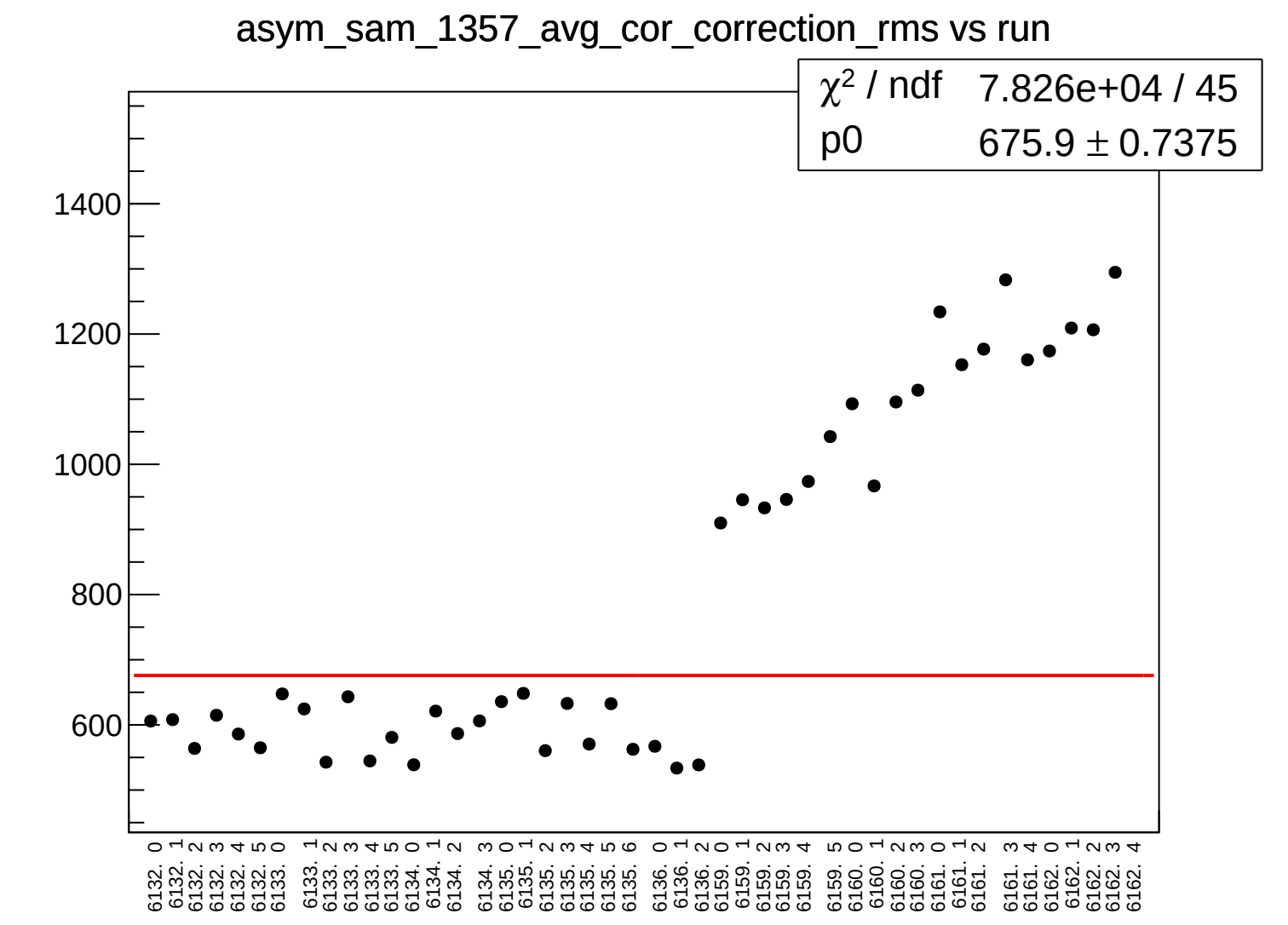
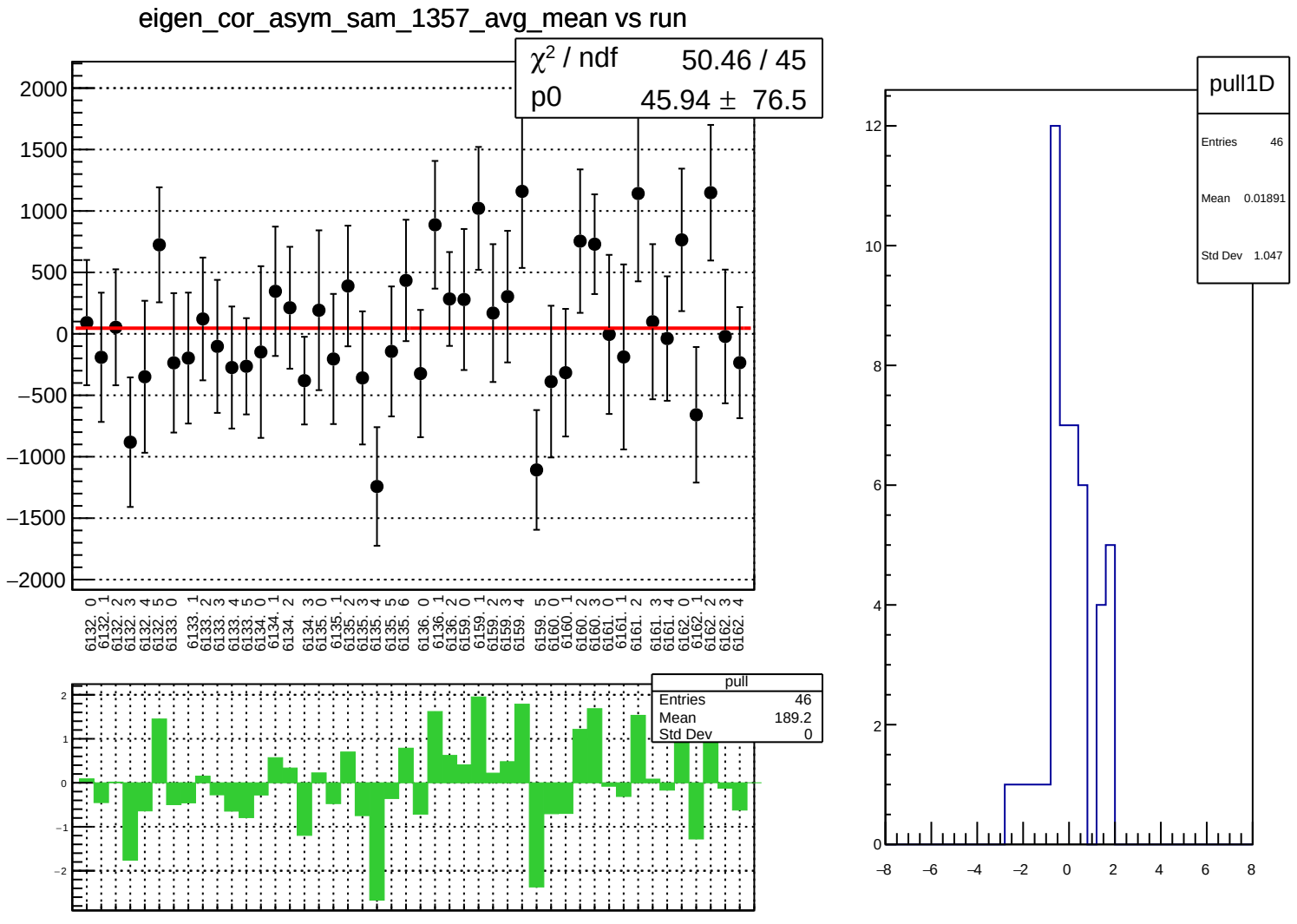
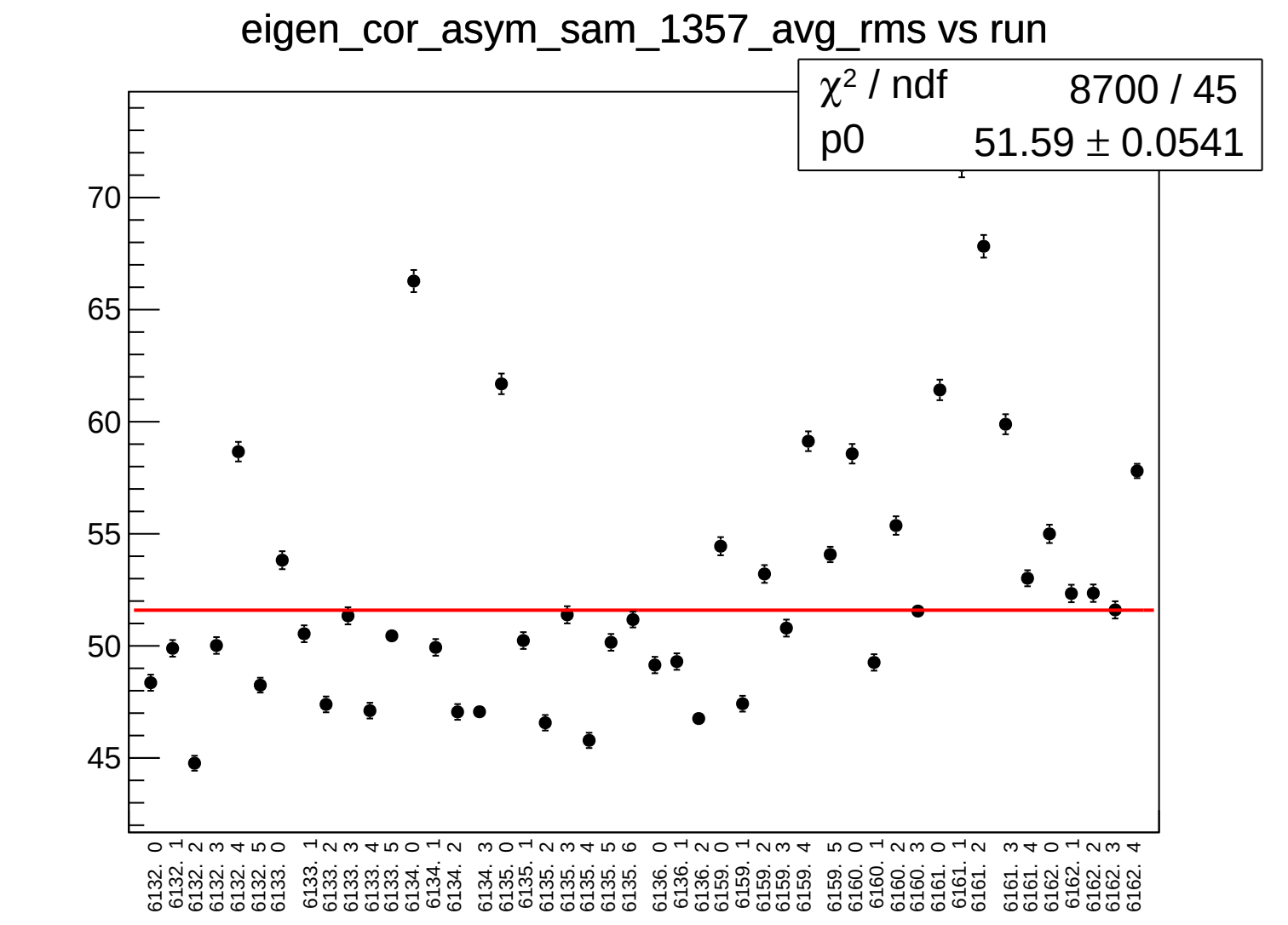
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 52.96 / 45
p0 −130.7 ± 1043
40000
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 73.51
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.06186
Std Dev 1.071
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 7.826e+04 / 45
p0 675.9 ± 0.7375
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 50.46 / 45
p0 45.94 ± 76.5
pull
Entries 46
Mean 189.2
Std Dev 0
pull1D
Entries 46
Mean 0.01891
Std Dev 1.047


eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 8700 / 45
p0 51.59 ± 0.0541
70
65
60
55
50
45
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6134. 2
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6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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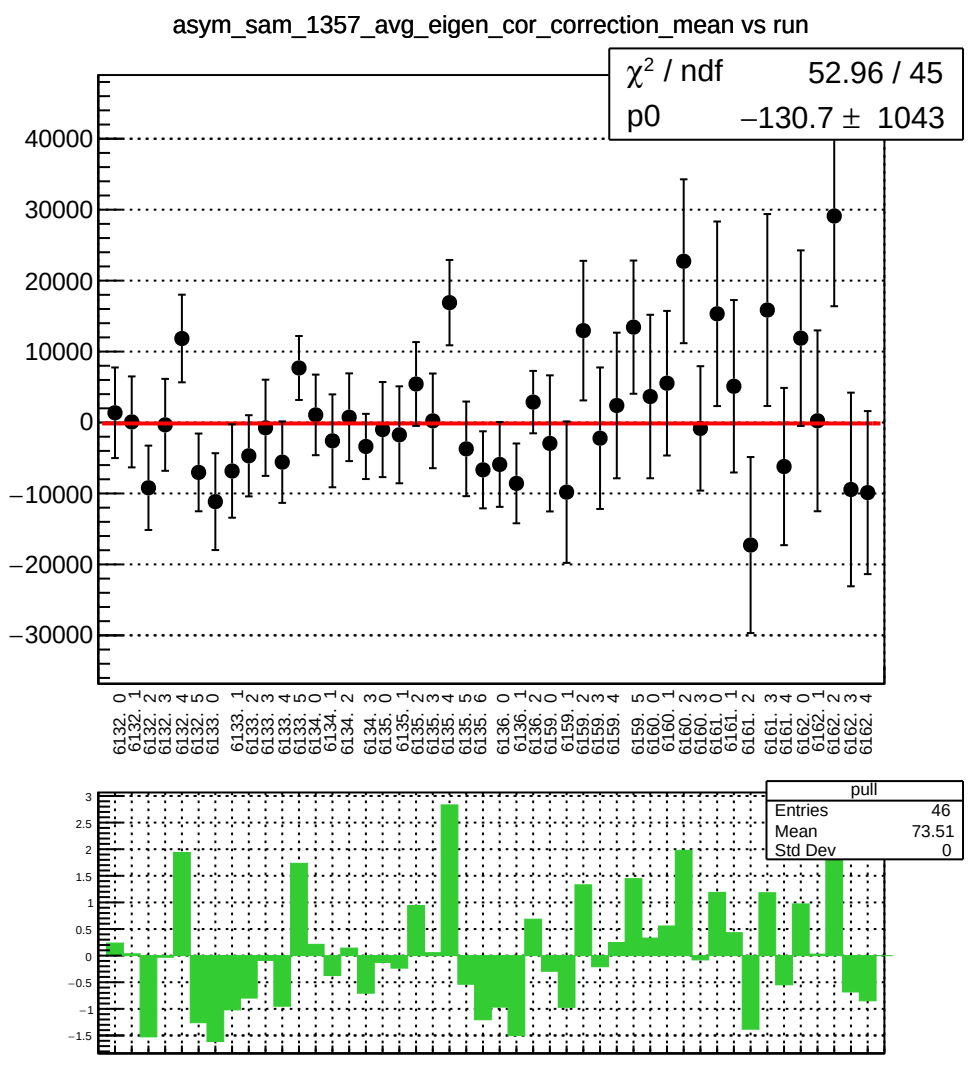
6162. 4


asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 52.96 / 45
p0 −130.7 ± 1043
40000
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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6135. 2
6135. 3
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6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
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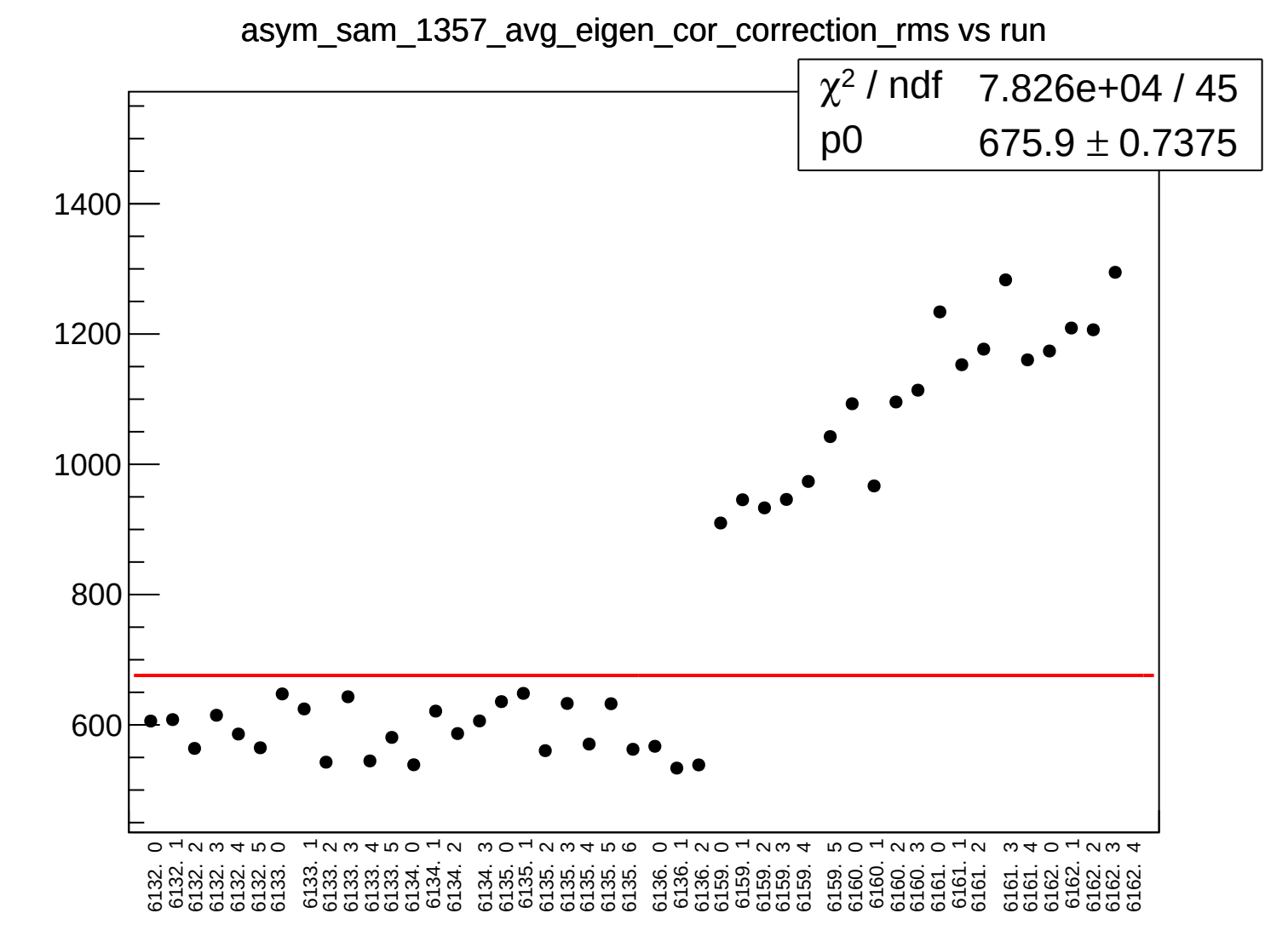
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 73.51
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.06186
Std Dev 1.071
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 7.826e+04 / 45
p0 675.9 ± 0.7375
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 2
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6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
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6159. 1
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6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 3
6161. 4
6162. 0
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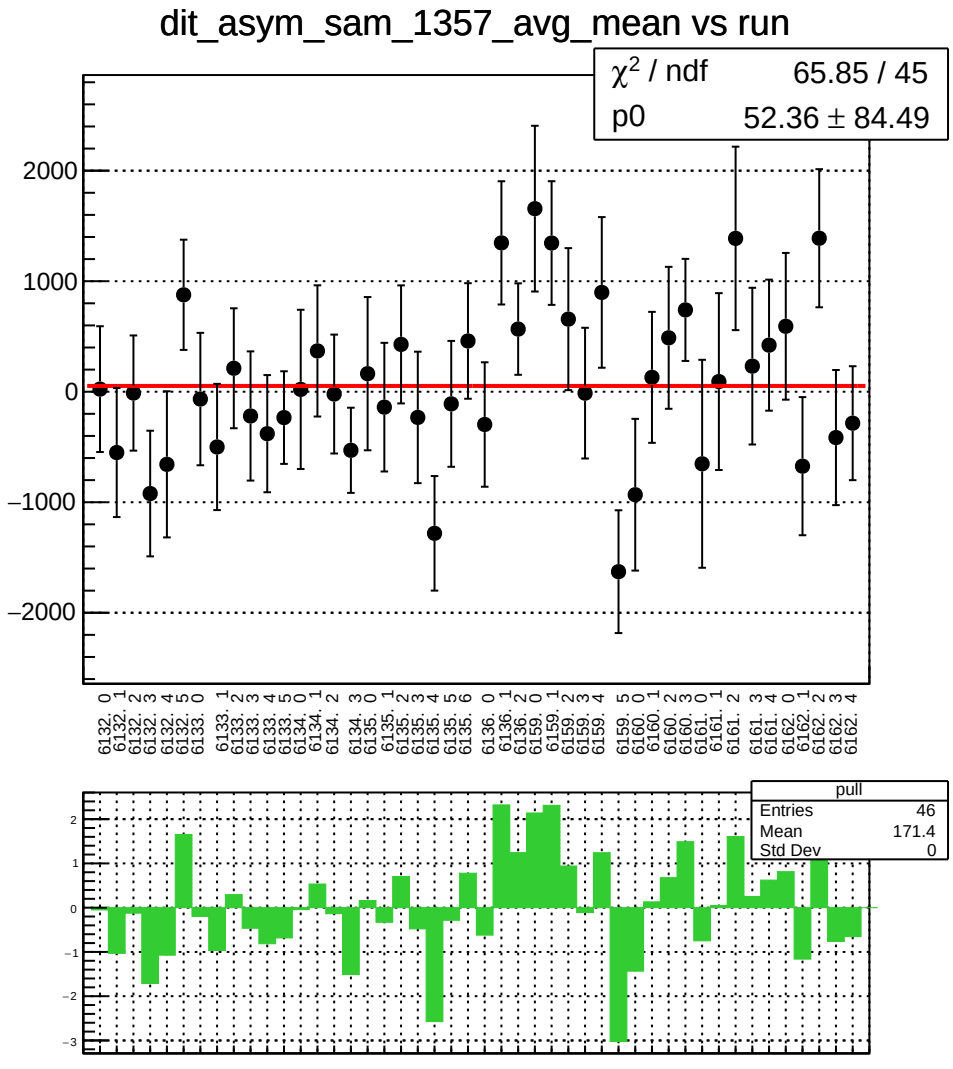
6162. 2
6162. 3
6162. 4


dit_asym_sam_1357_avg_mean vs run
χ² / ndf 65.85 / 45
p0 52.36 ± 84.49
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 0
6135. 1
6135. 2
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6135. 5
6135. 6
6136. 0
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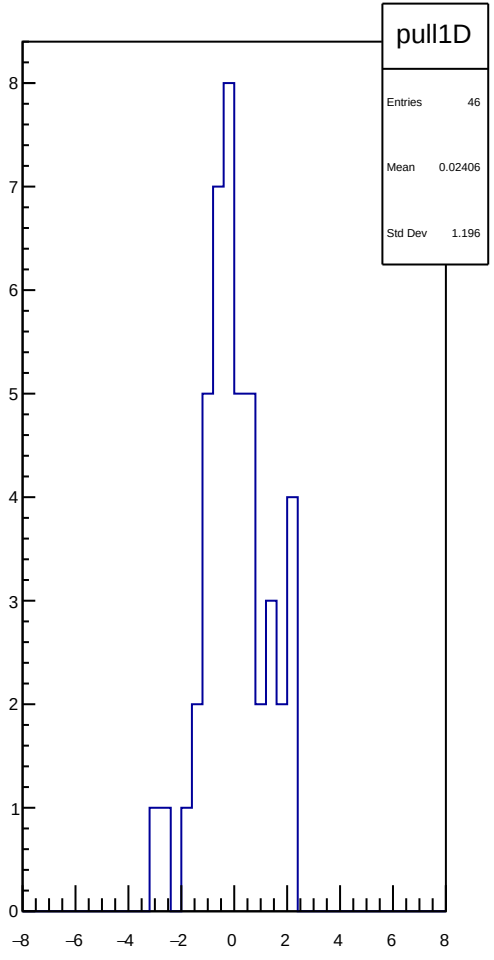
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 171.4
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean 0.02406
Std Dev 1.196
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7
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5
4
3
2
1
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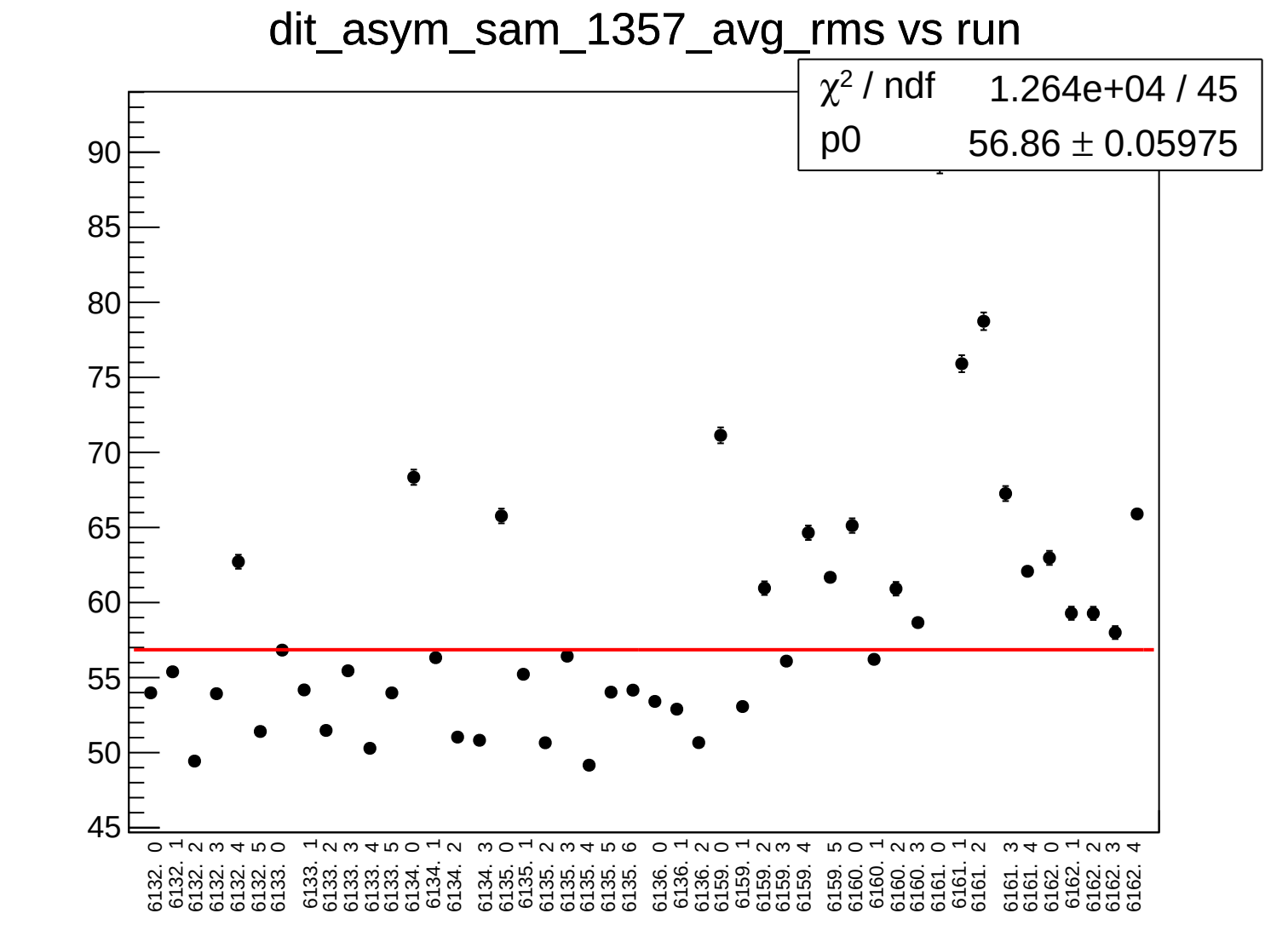
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.264e+04 / 45
p0 56.86 ± 0.05975
90
85
80
75
70
65
60
55
50
45
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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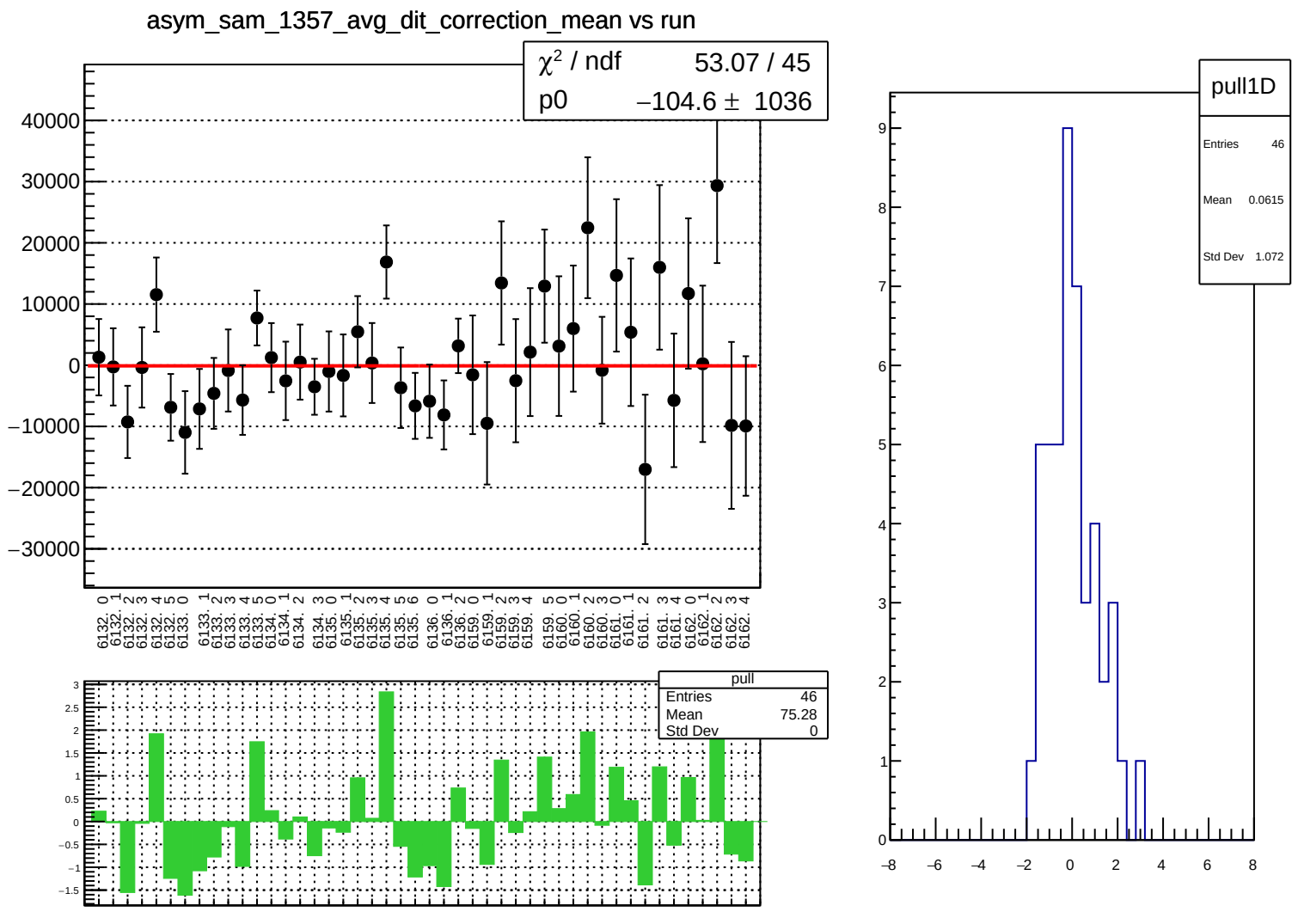
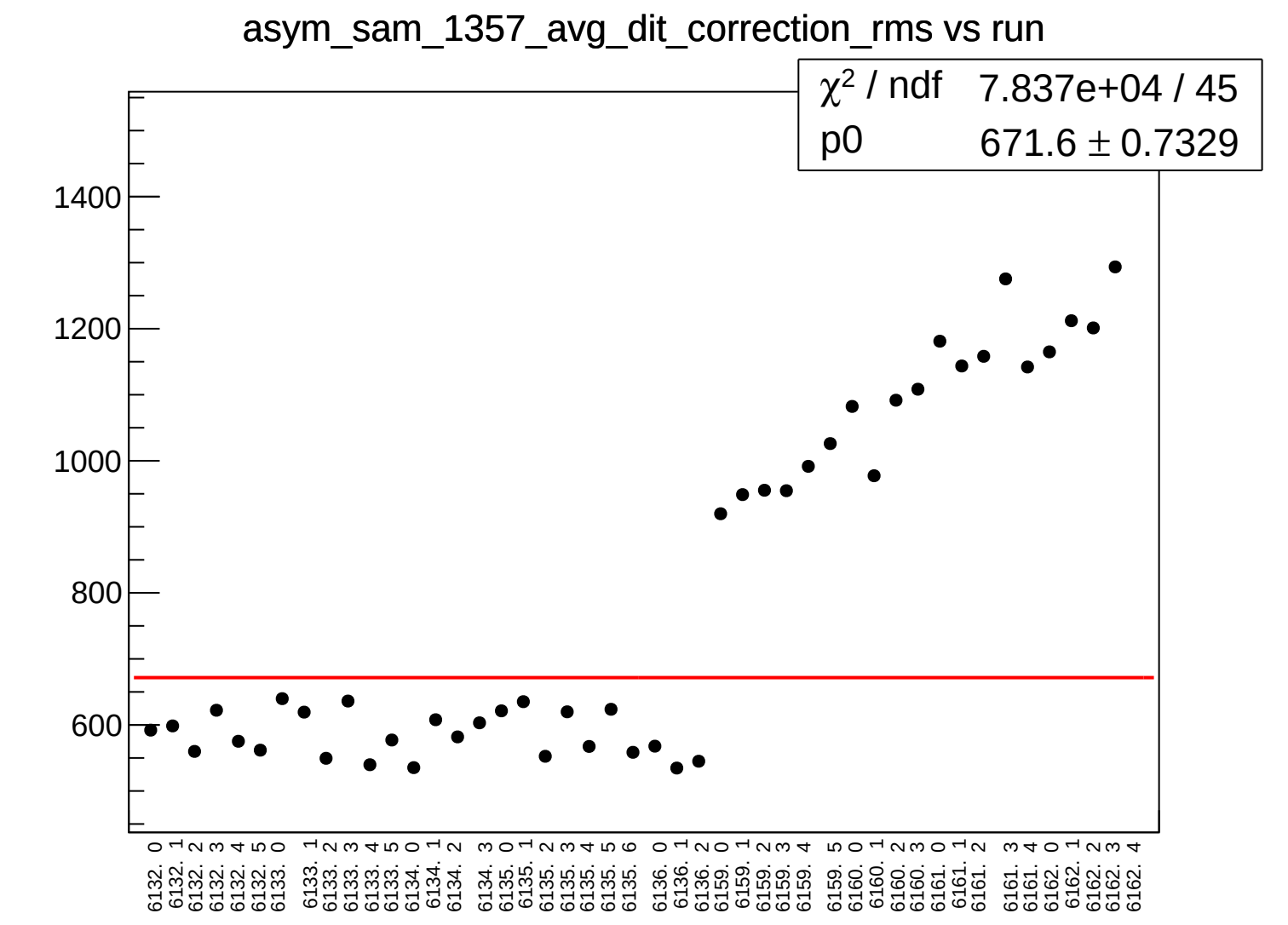
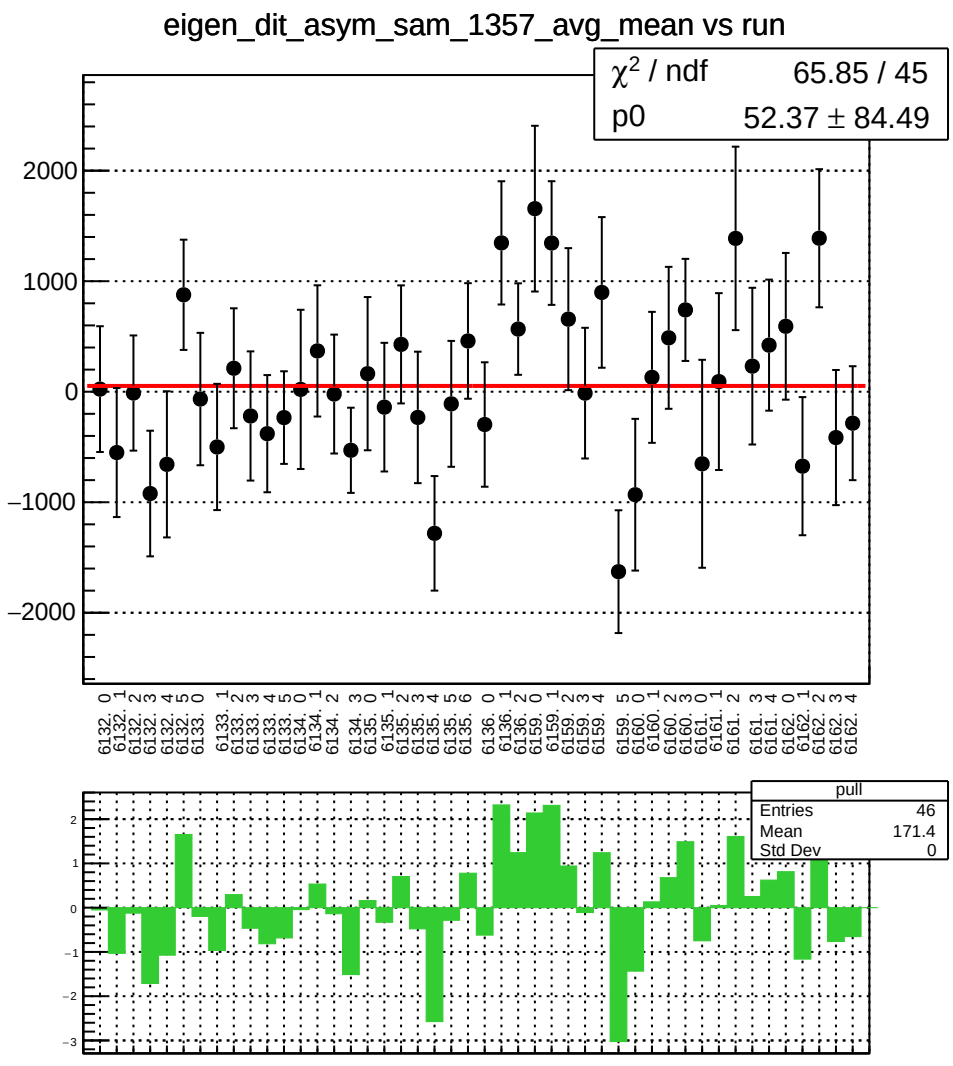
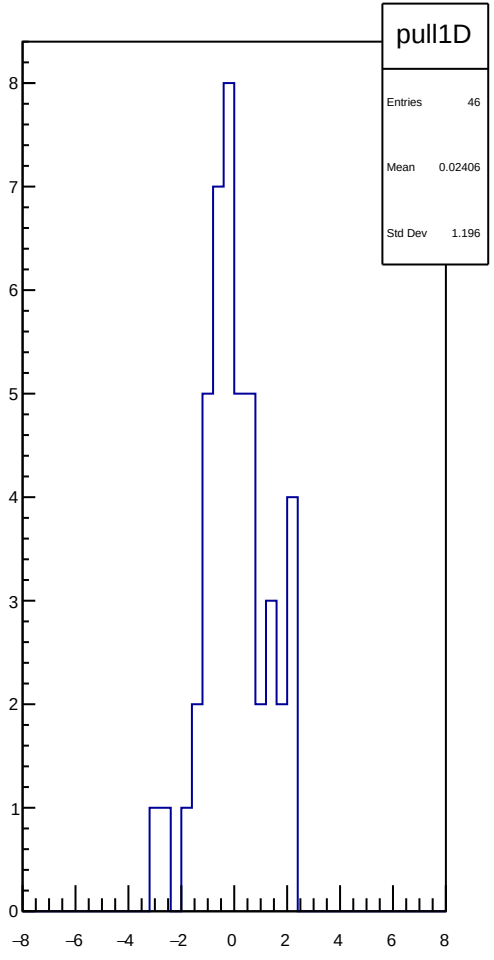
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 53.07 / 45
p0 −104.6 ± 1036
40000
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 75.28
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.0615
Std Dev 1.072
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 7.837e+04 / 45
p0 671.6 ± 0.7329
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 65.85 / 45
p0 52.37 ± 84.49
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 171.4
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean 0.02406
Std Dev 1.196
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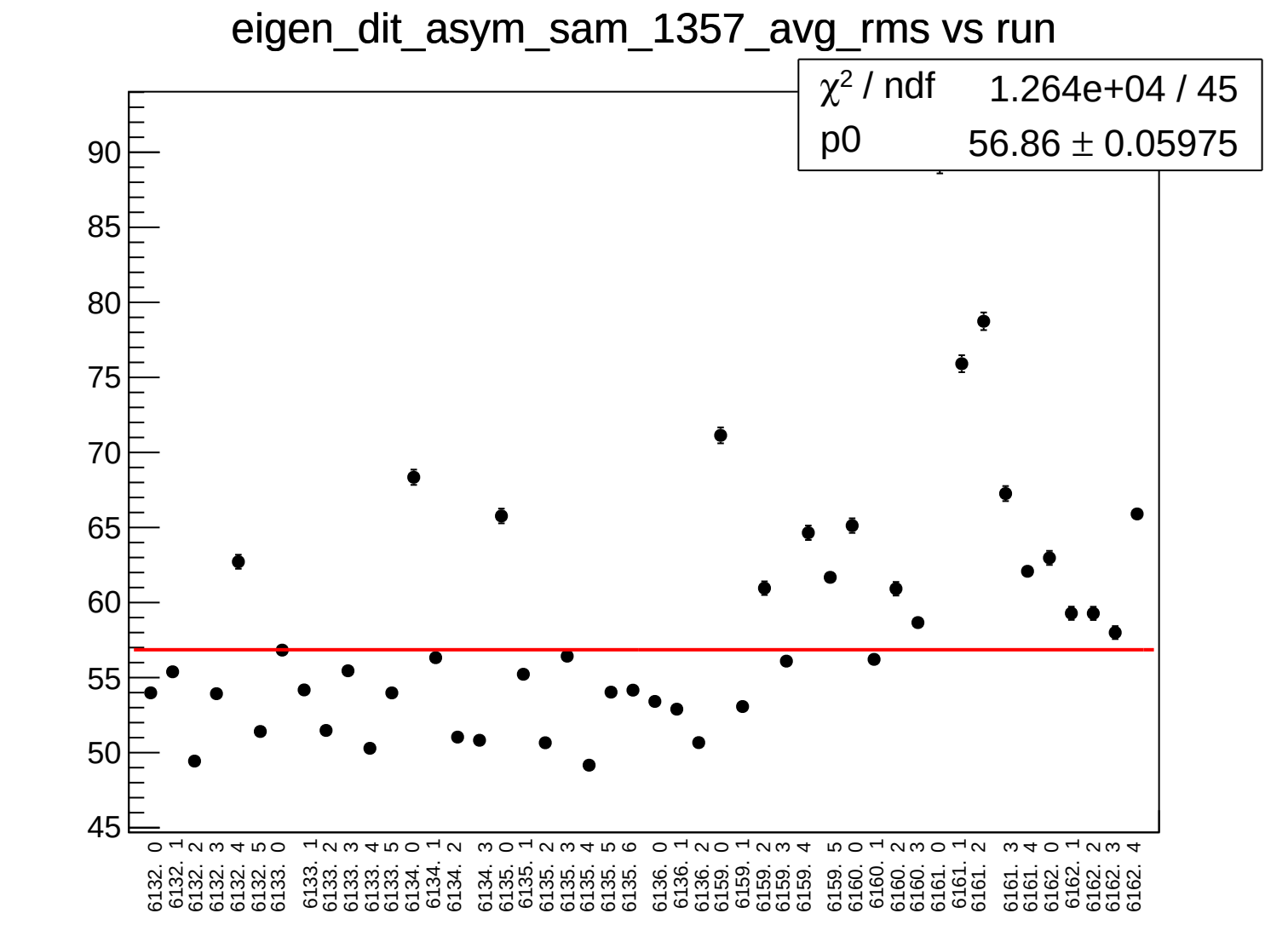
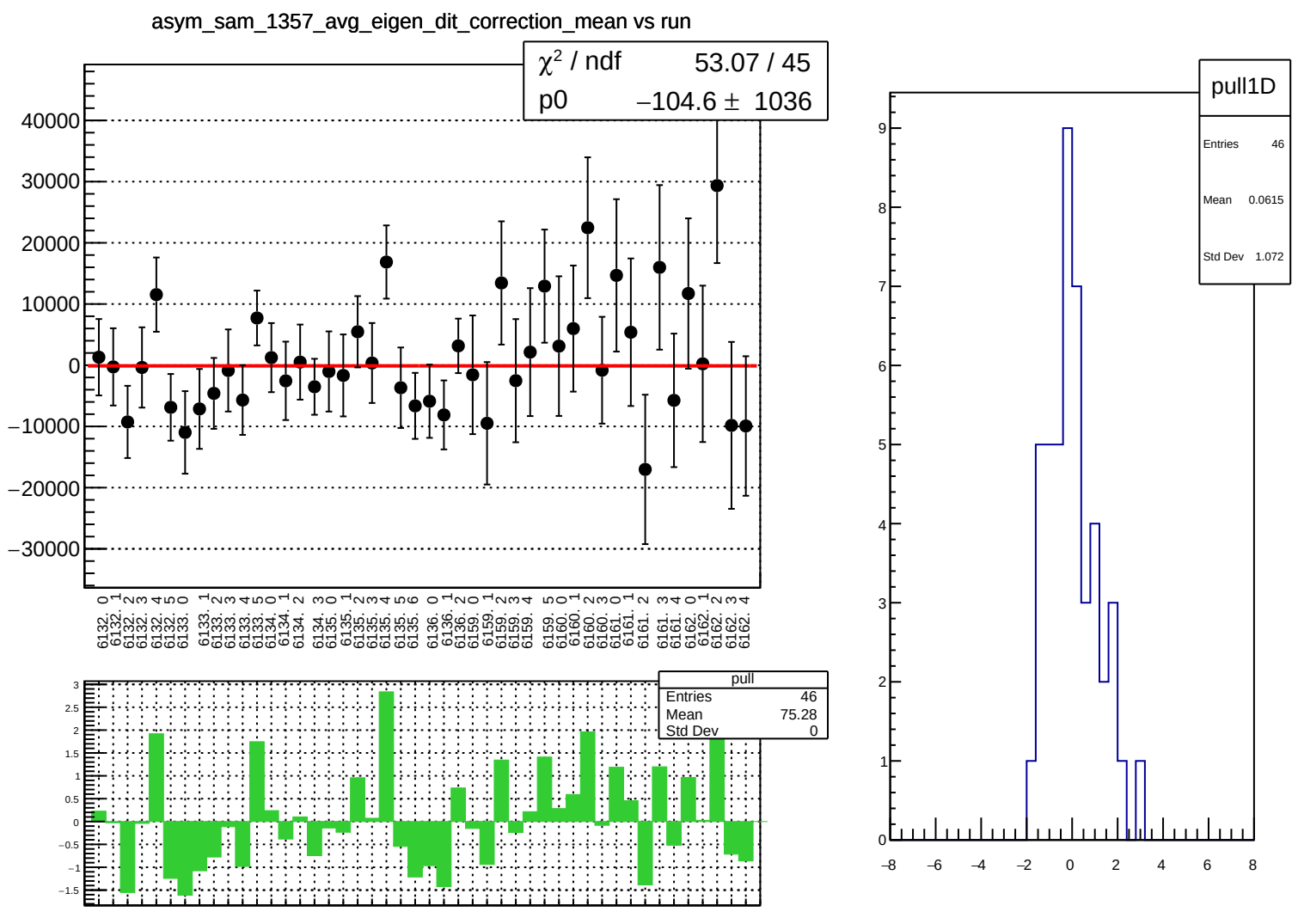
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.264e+04 / 45
p0 56.86 ± 0.05975
90
85
80
75
70
65
60
55
50
45
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 53.07 / 45
p0 −104.6 ± 1036
40000
30000
20000
10000
0
−10000
−20000
−30000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 75.28
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.0615
Std Dev 1.072
9
8
7
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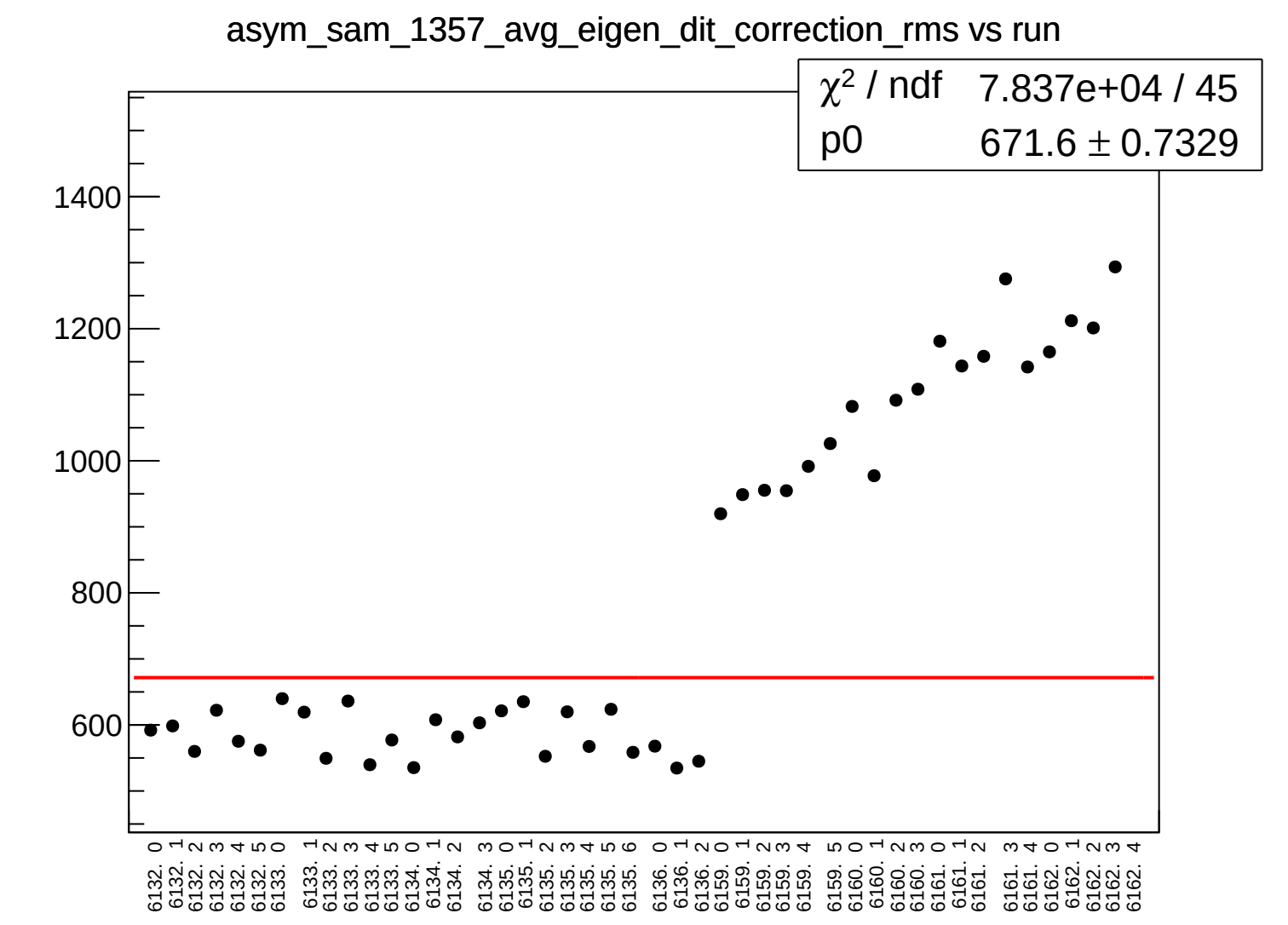
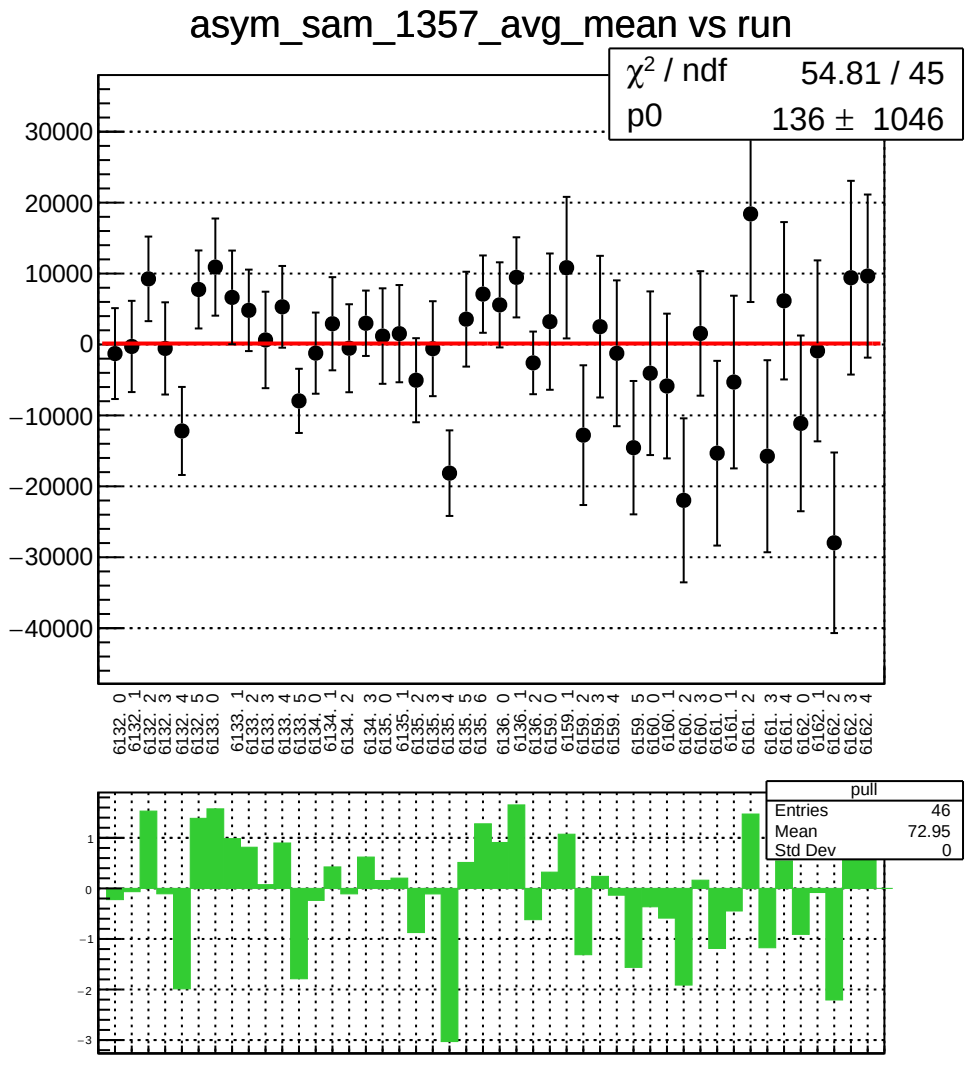
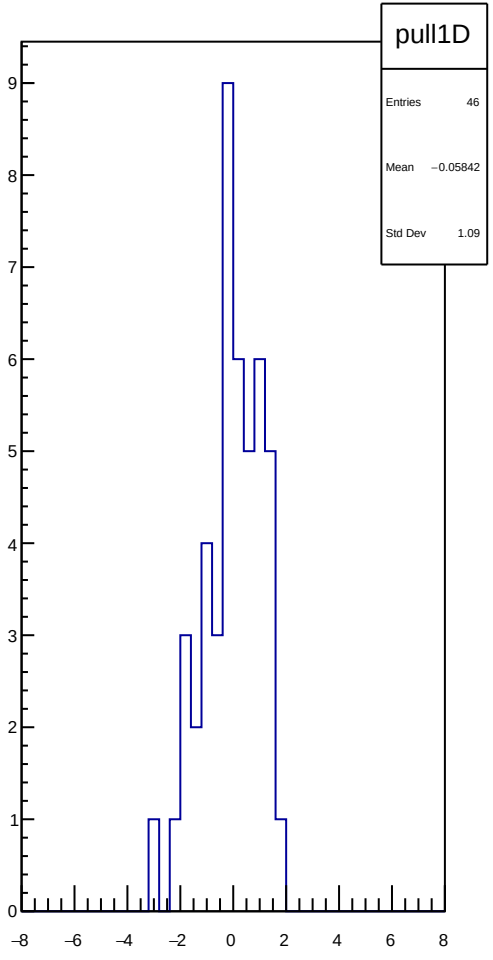
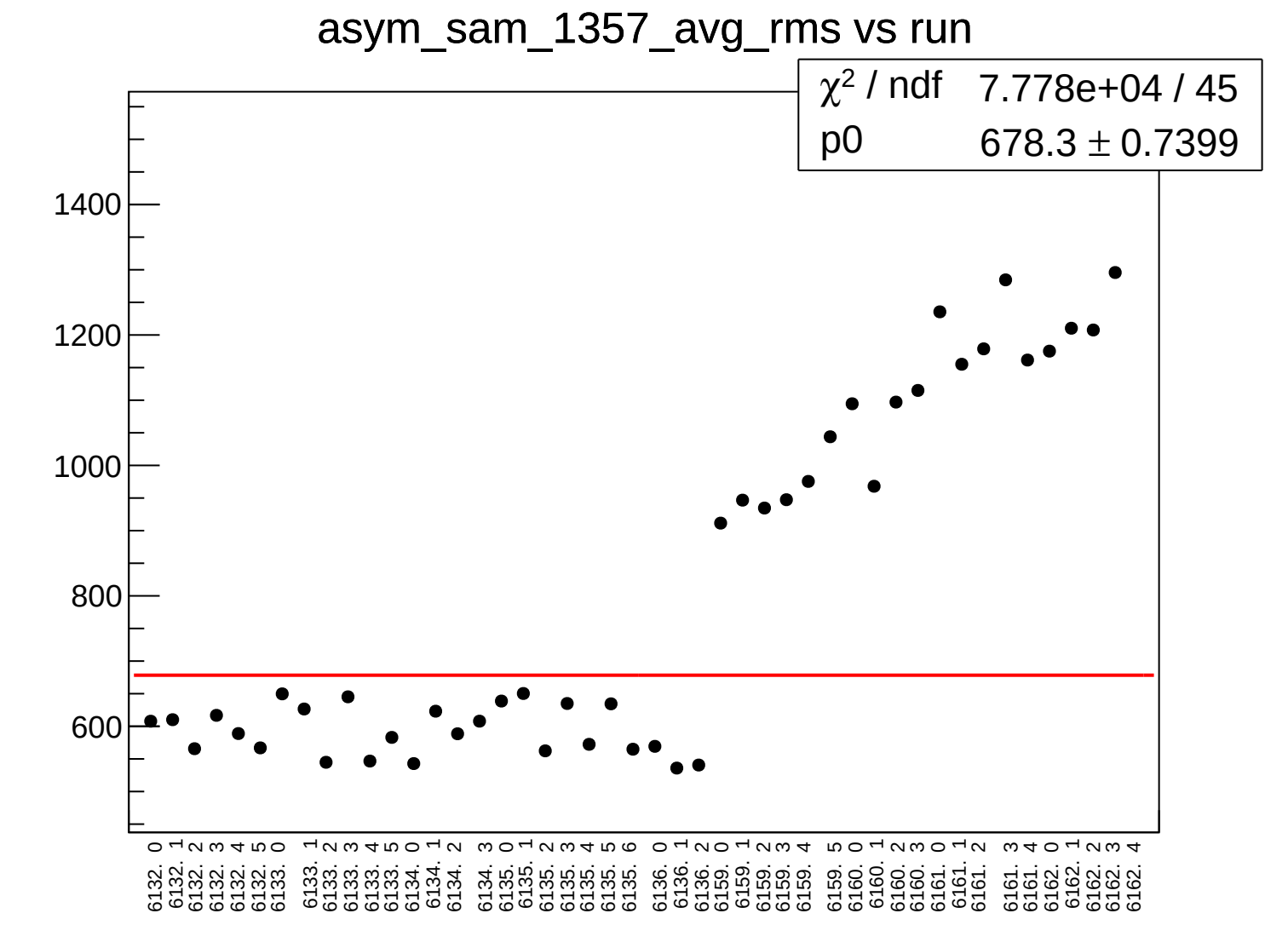
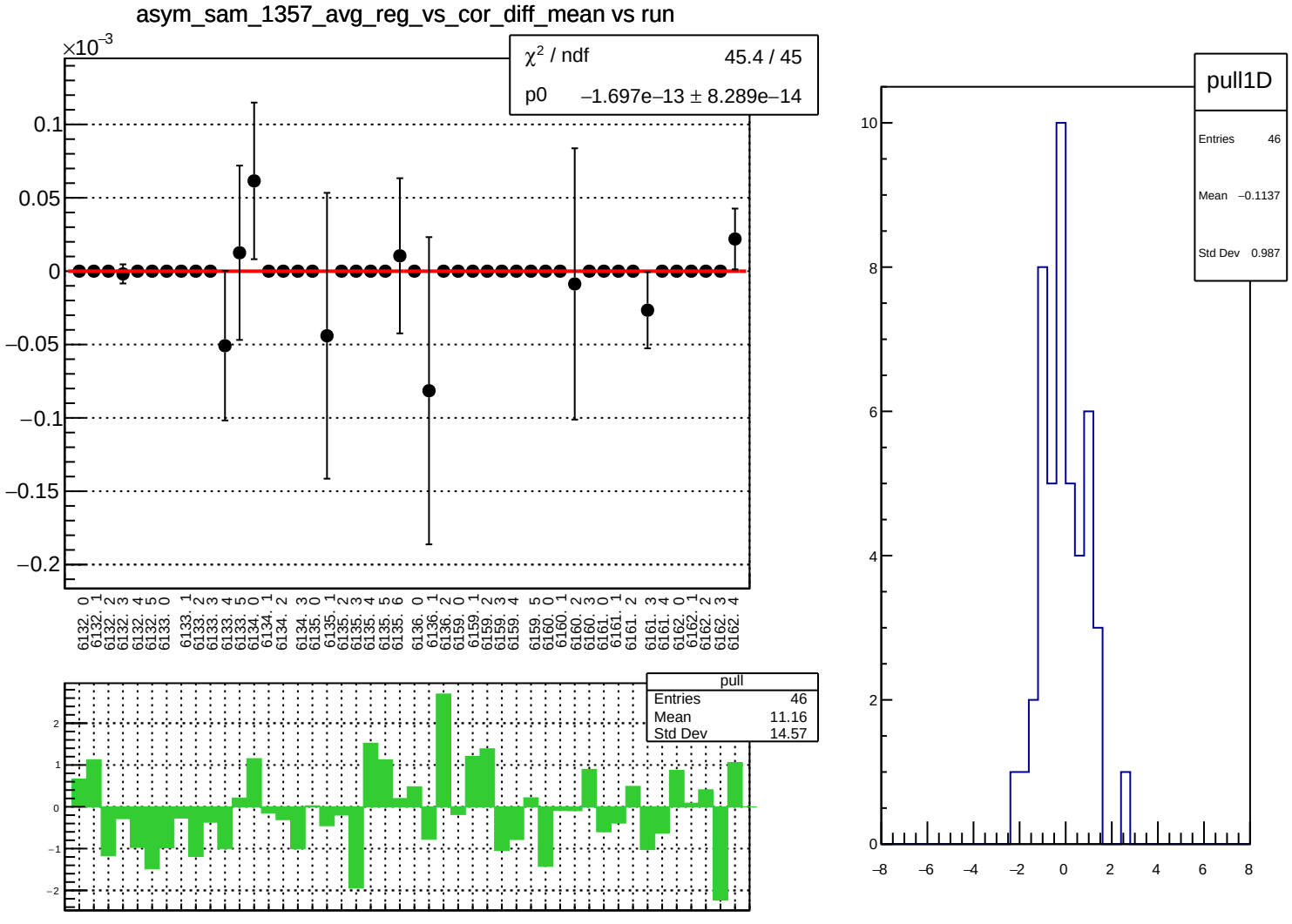
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

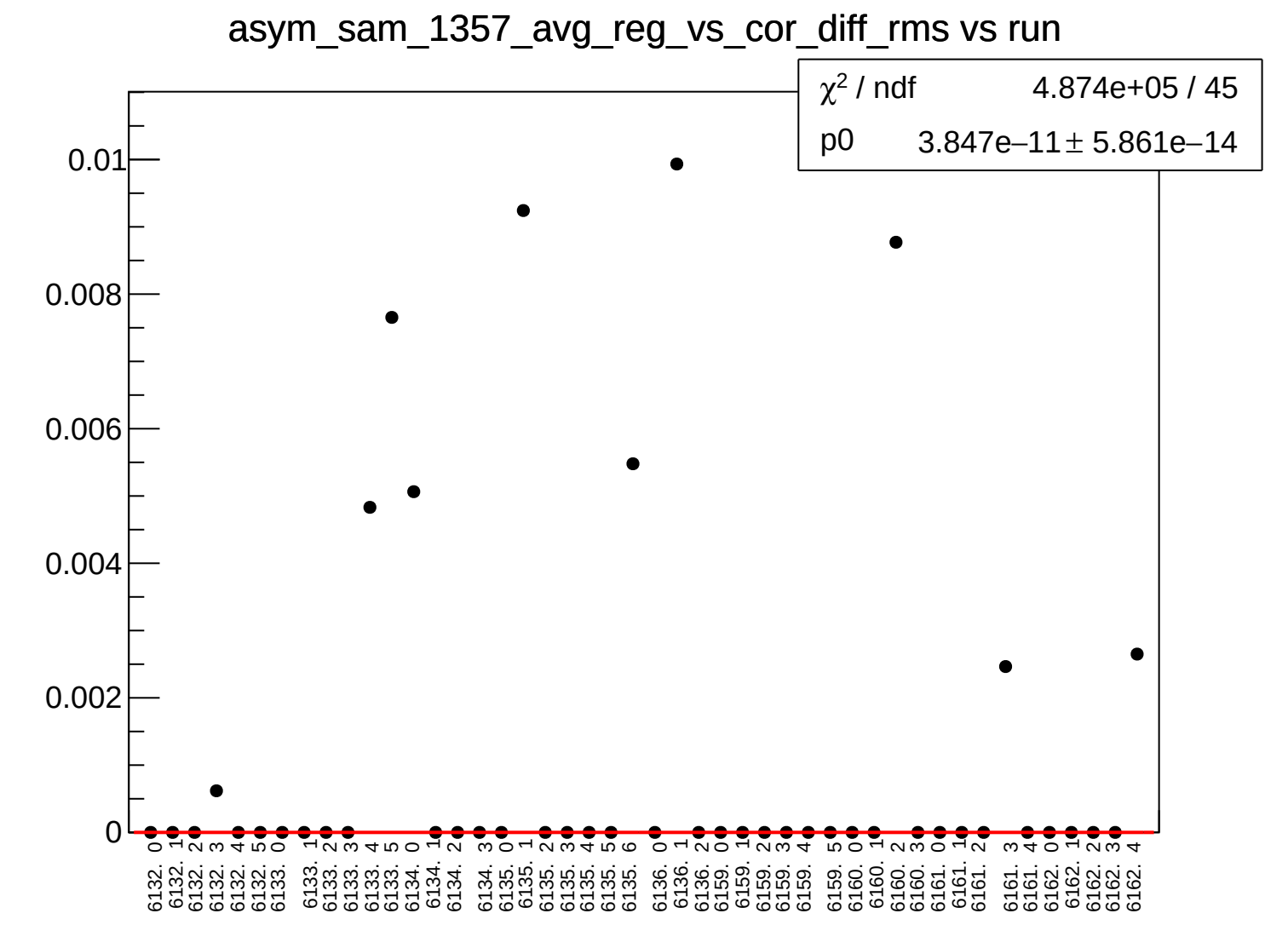

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 7.837e+04 / 45
p0 671.6 ± 0.7329
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

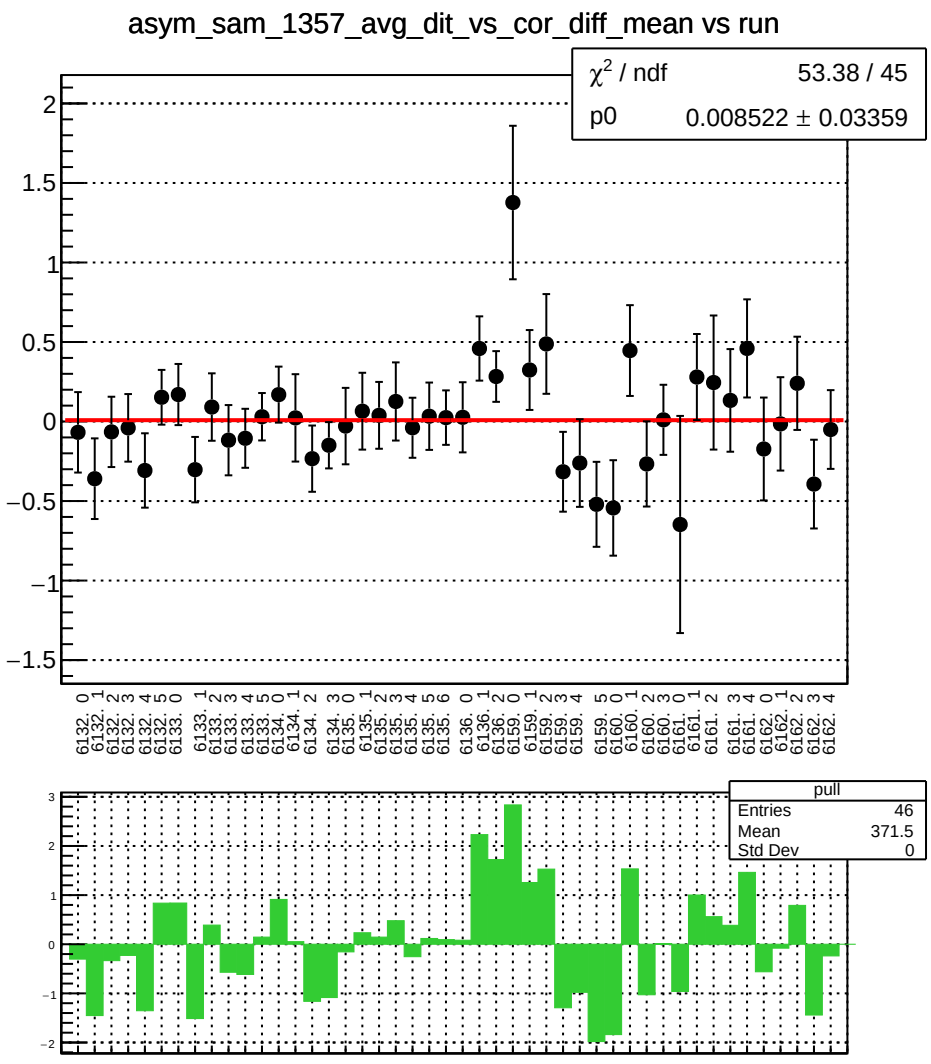

asym_sam_1357_avg_mean vs run
χ² / ndf 54.81 / 45
p0 136 ± 1046
30000
20000
10000
0
−10000
−20000
−30000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 72.95
Std Dev 0
1
0
−1
−2
−3

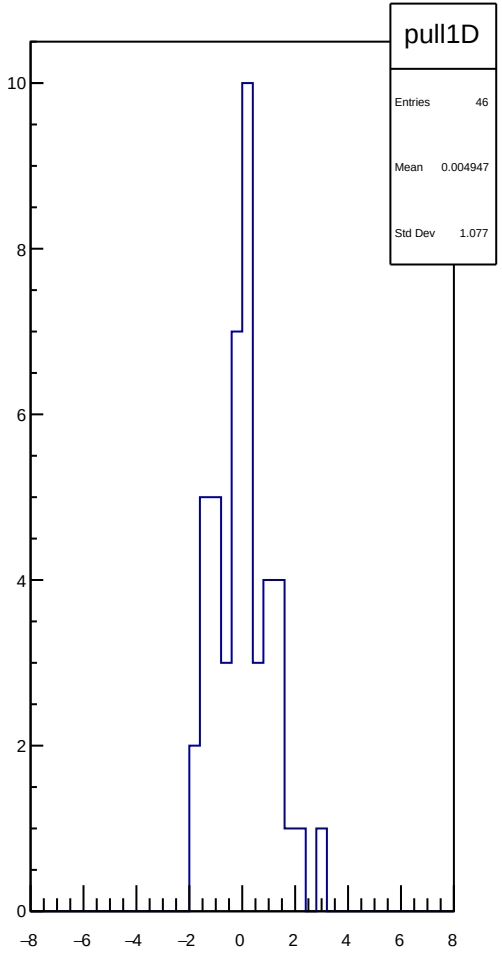

pull1D
Entries 46
Mean −0.05842
Std Dev 1.09
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

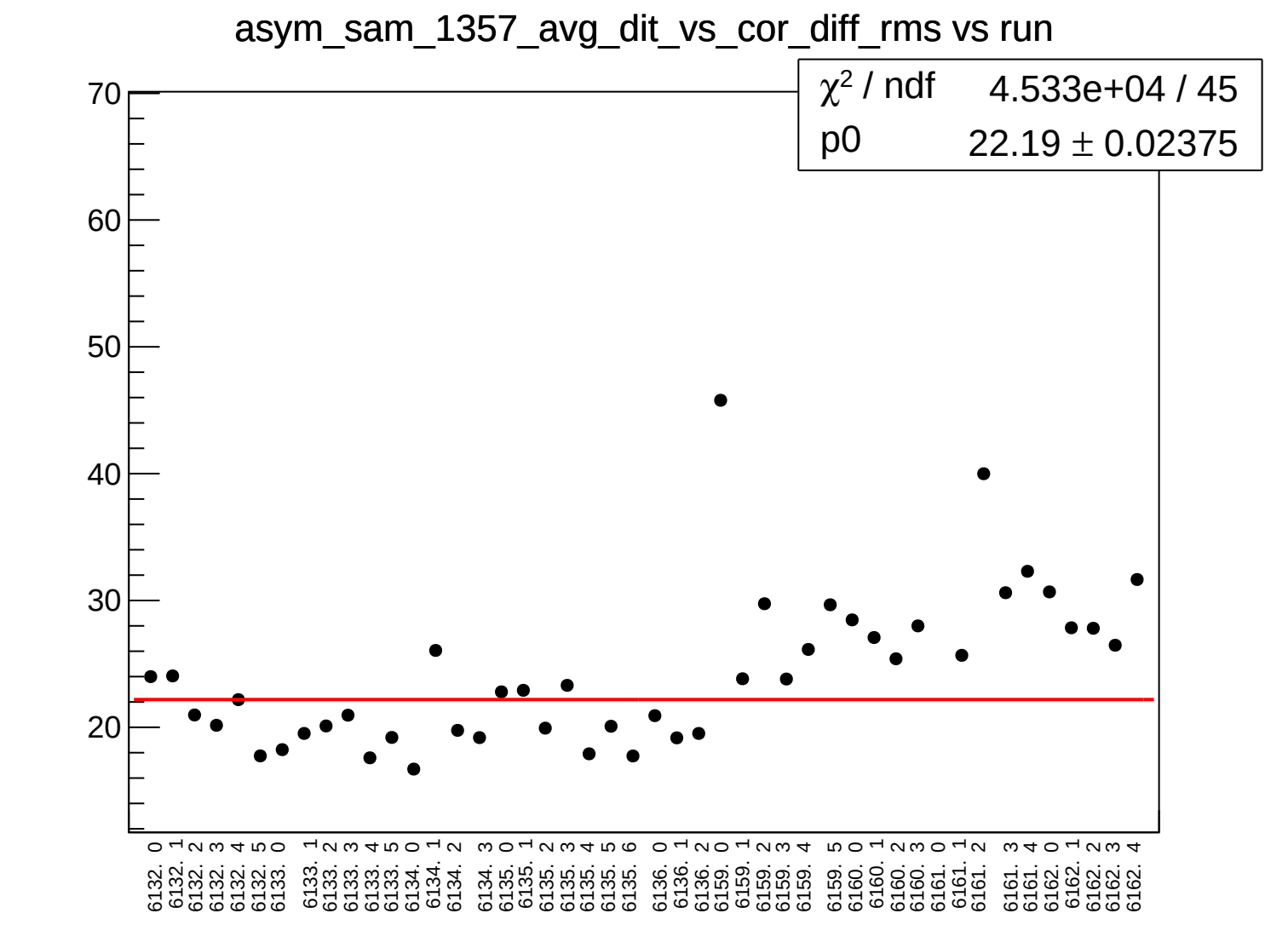

asym_sam_1357_avg_rms vs run
χ² / ndf 7.778e+04 / 45
p0 678.3 ± 0.7399
1400
1200
1000
800
600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 45.4 / 45
p0 −1.697e−13 ± 8.289e−14
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 11.16
Std Dev 14.57
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.1137
Std Dev 0.987
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.874e+05 / 45
p0 3.847e−11 ± 5.861e−14
0.01
0.008
0.006
0.004
0.002
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 53.38 / 45
p0 0.008522 ± 0.03359
pull
Entries 46
Mean 371.5
Std Dev 0


pull1D
Entries 46
Mean 0.004947
Std Dev 1.077


asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.533e+04 / 45
p0 22.19 ± 0.02375
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
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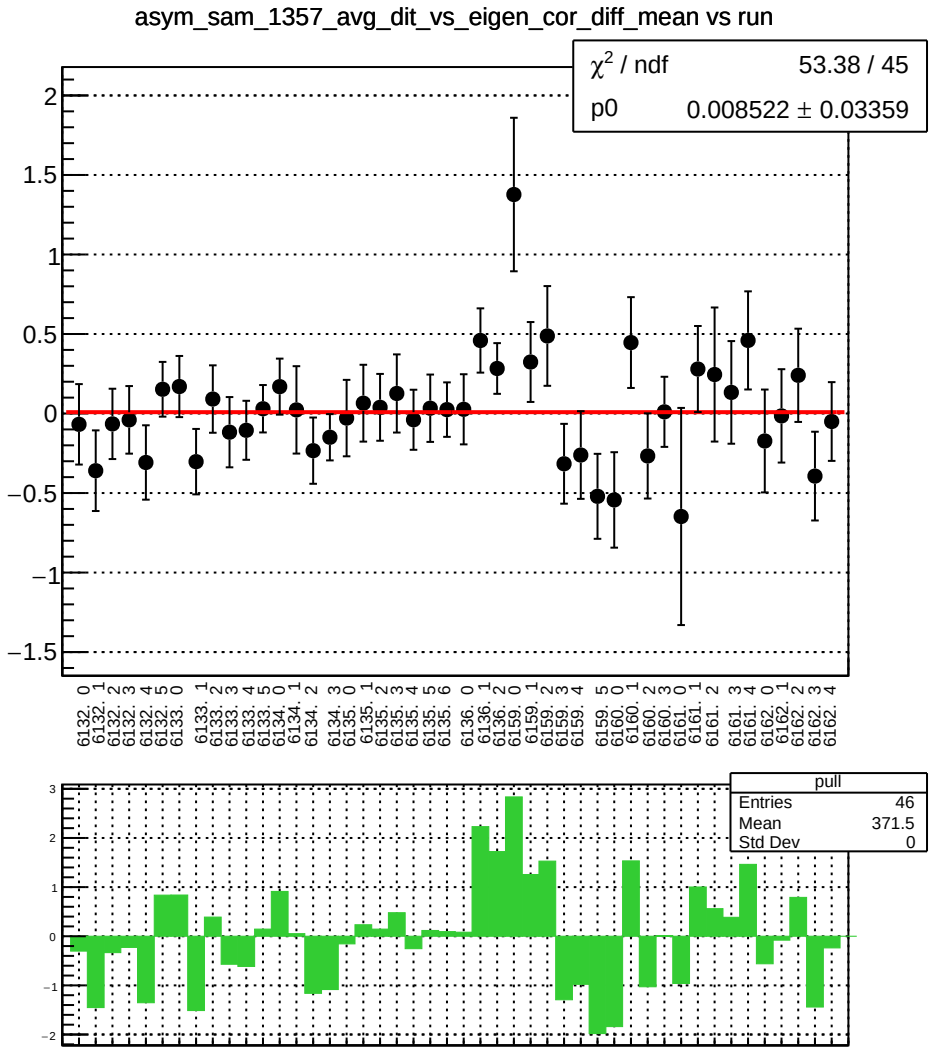
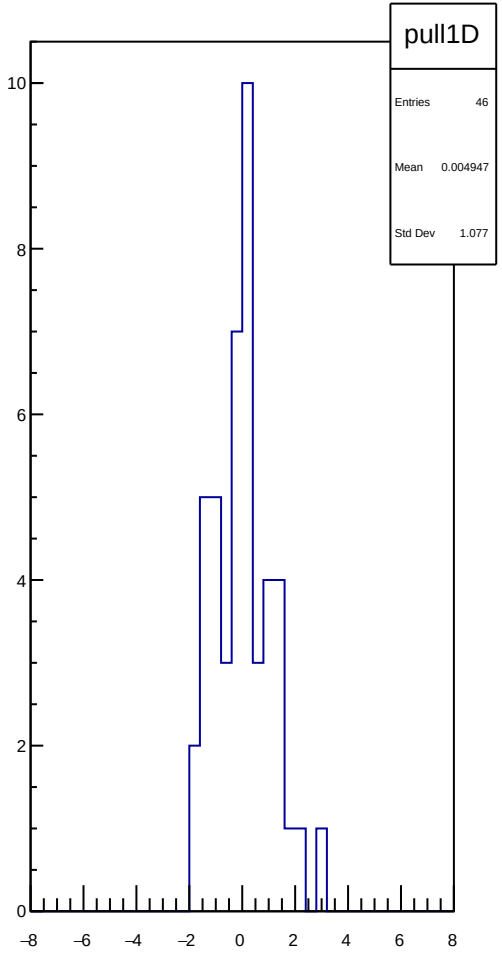
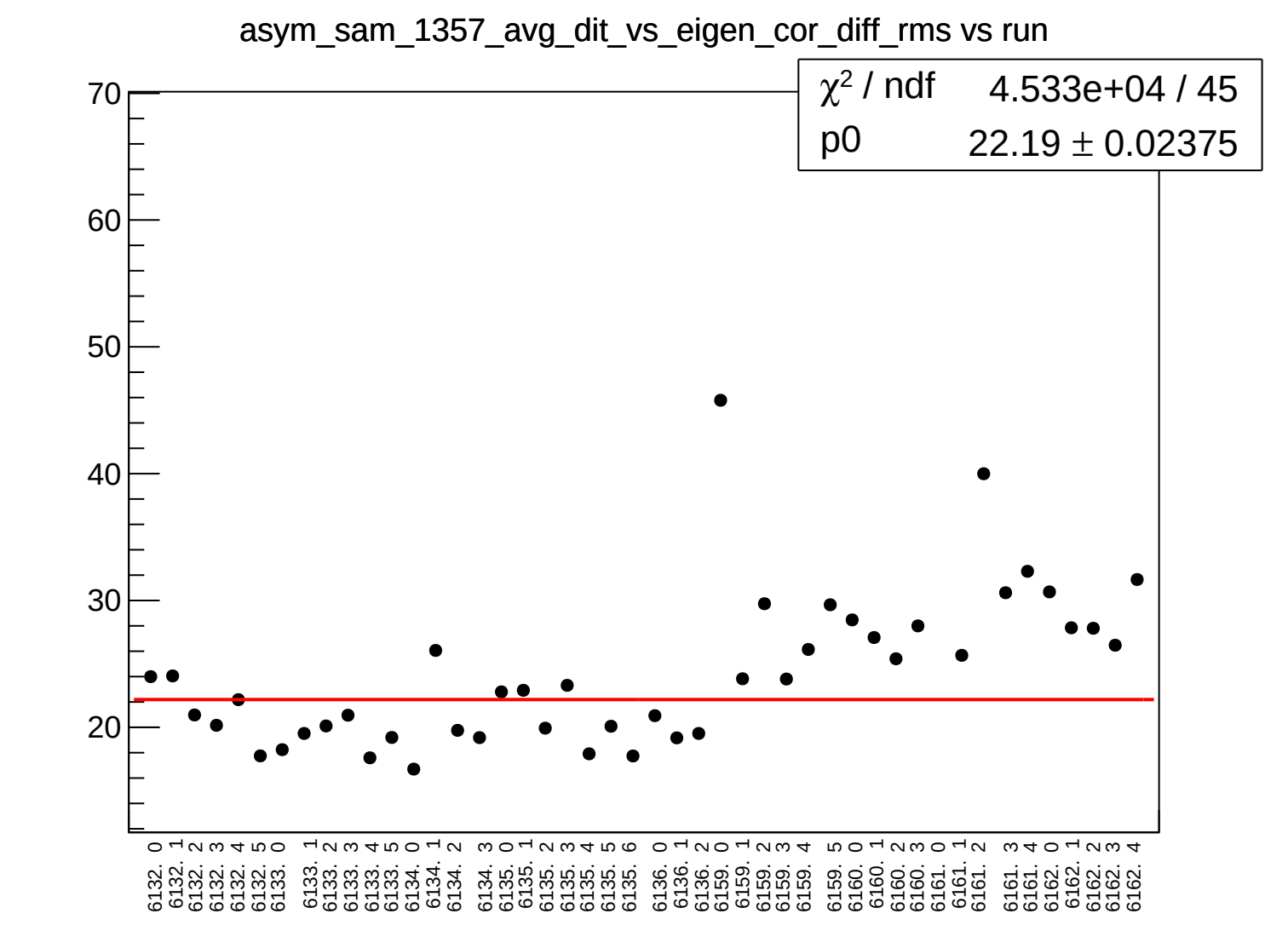
6162. 4


asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 53.38 / 45
p0 0.008522 ± 0.03359
pull
Entries 46
Mean 371.5
Std Dev 0


pull1D
Entries 46
Mean 0.004947
Std Dev 1.077


asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.533e+04 / 45
p0 22.19 ± 0.02375
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
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6134. 3
6135. 0
6135. 1
6135. 2
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6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
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6159. 1
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6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
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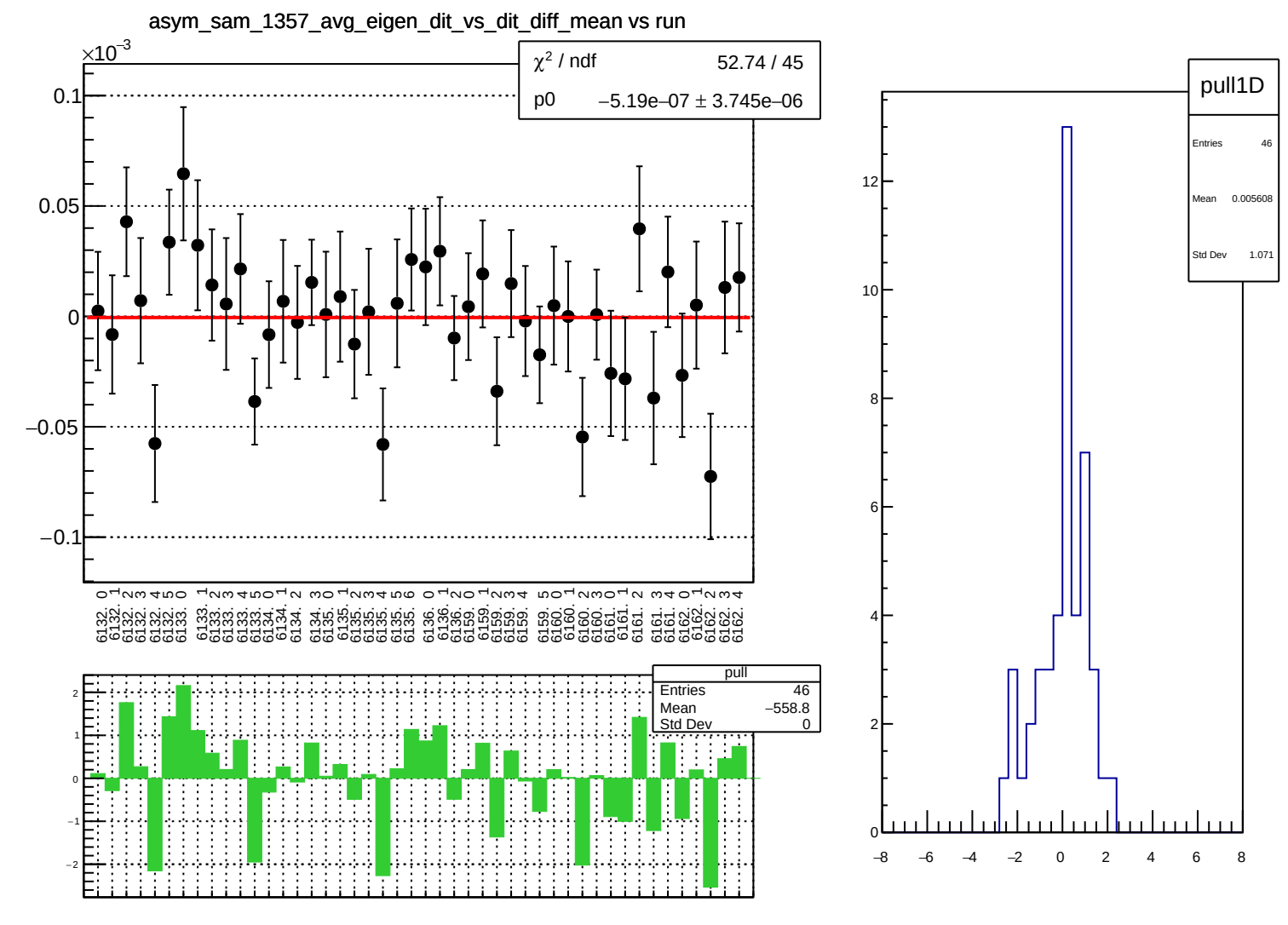
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 52.74 / 45
p0 −5.19e−07 ± 3.745e−06
0.1
0.05
0
−0.05
−0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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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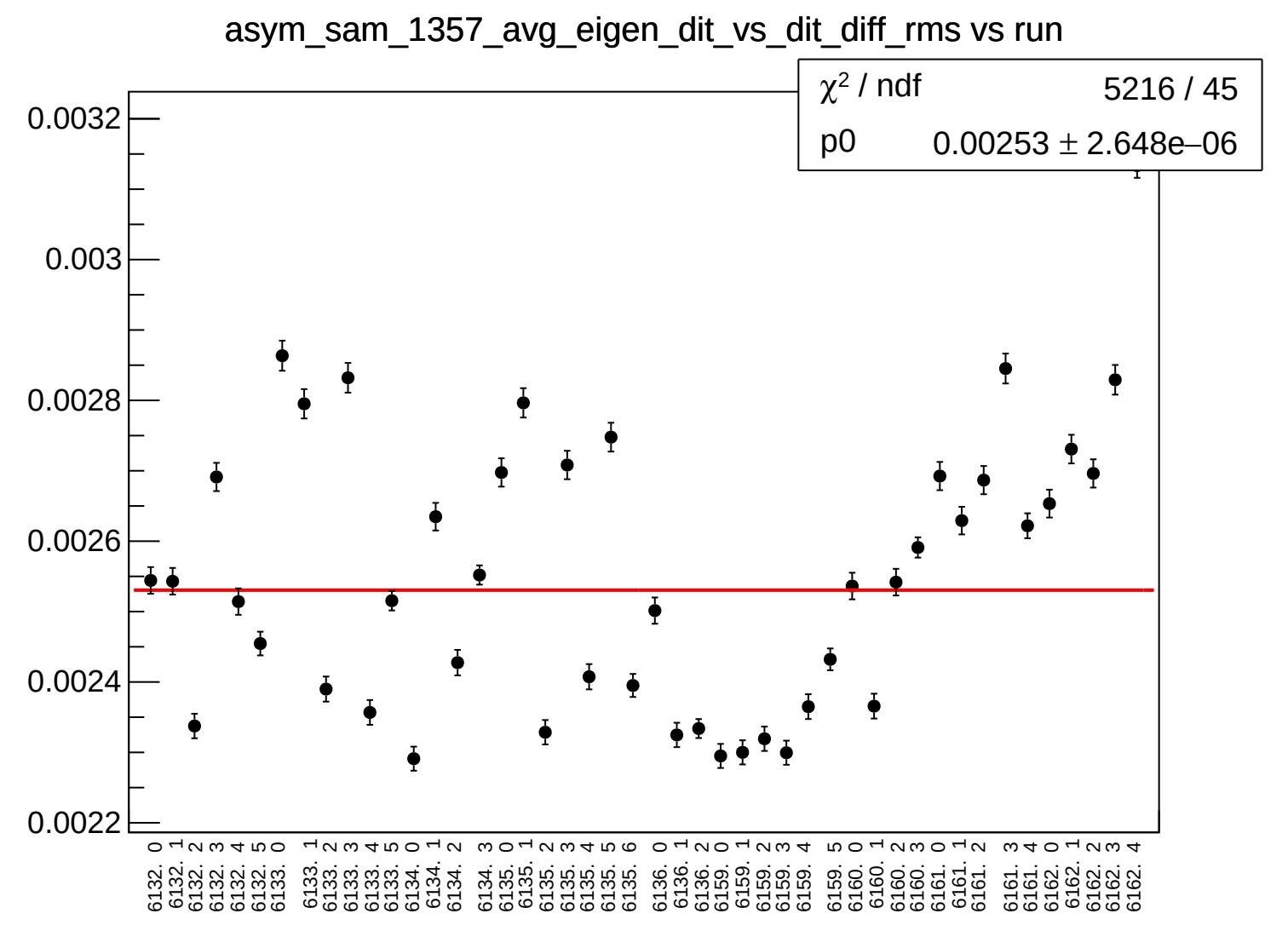
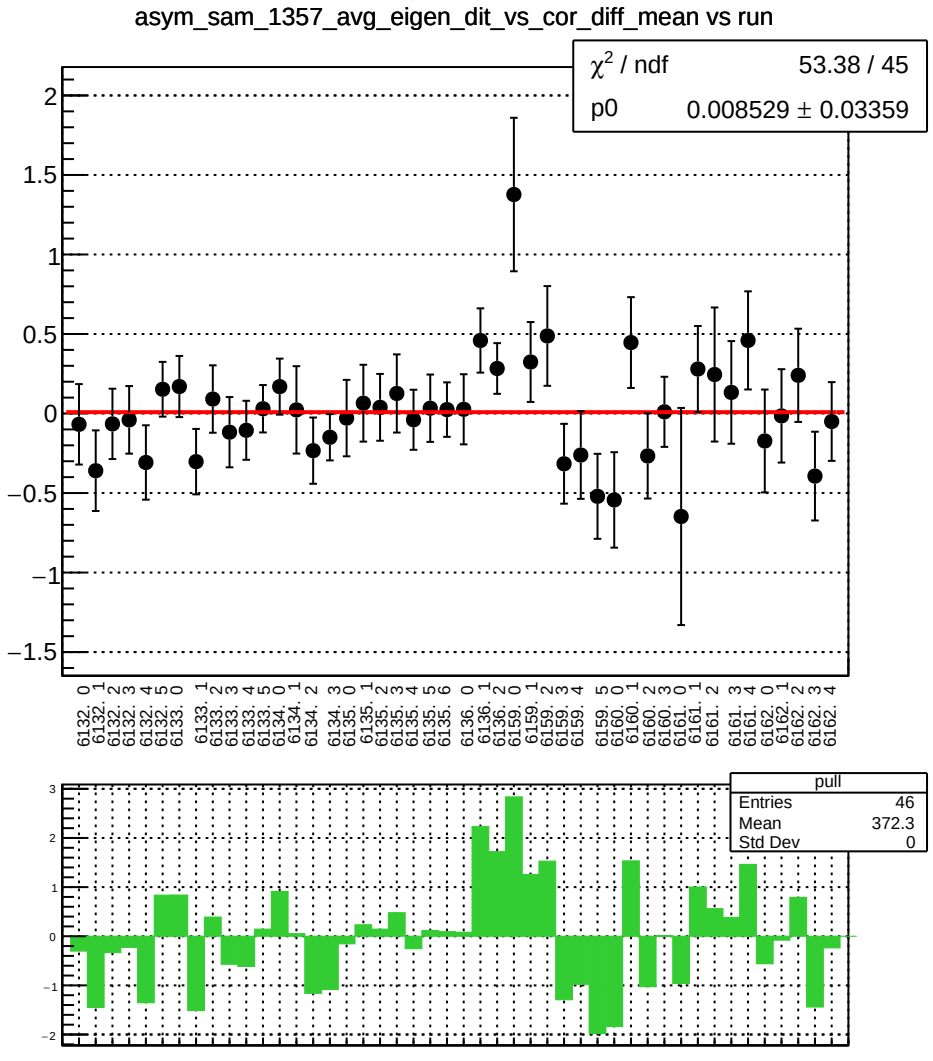
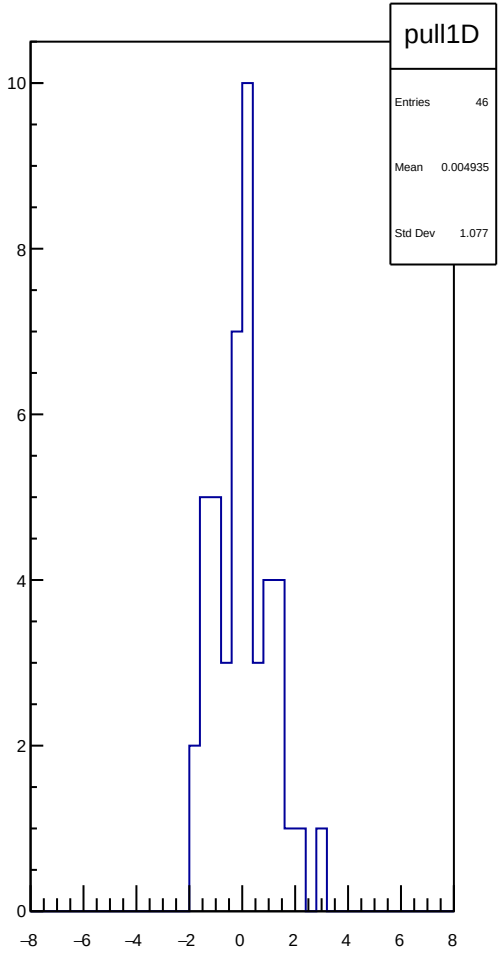
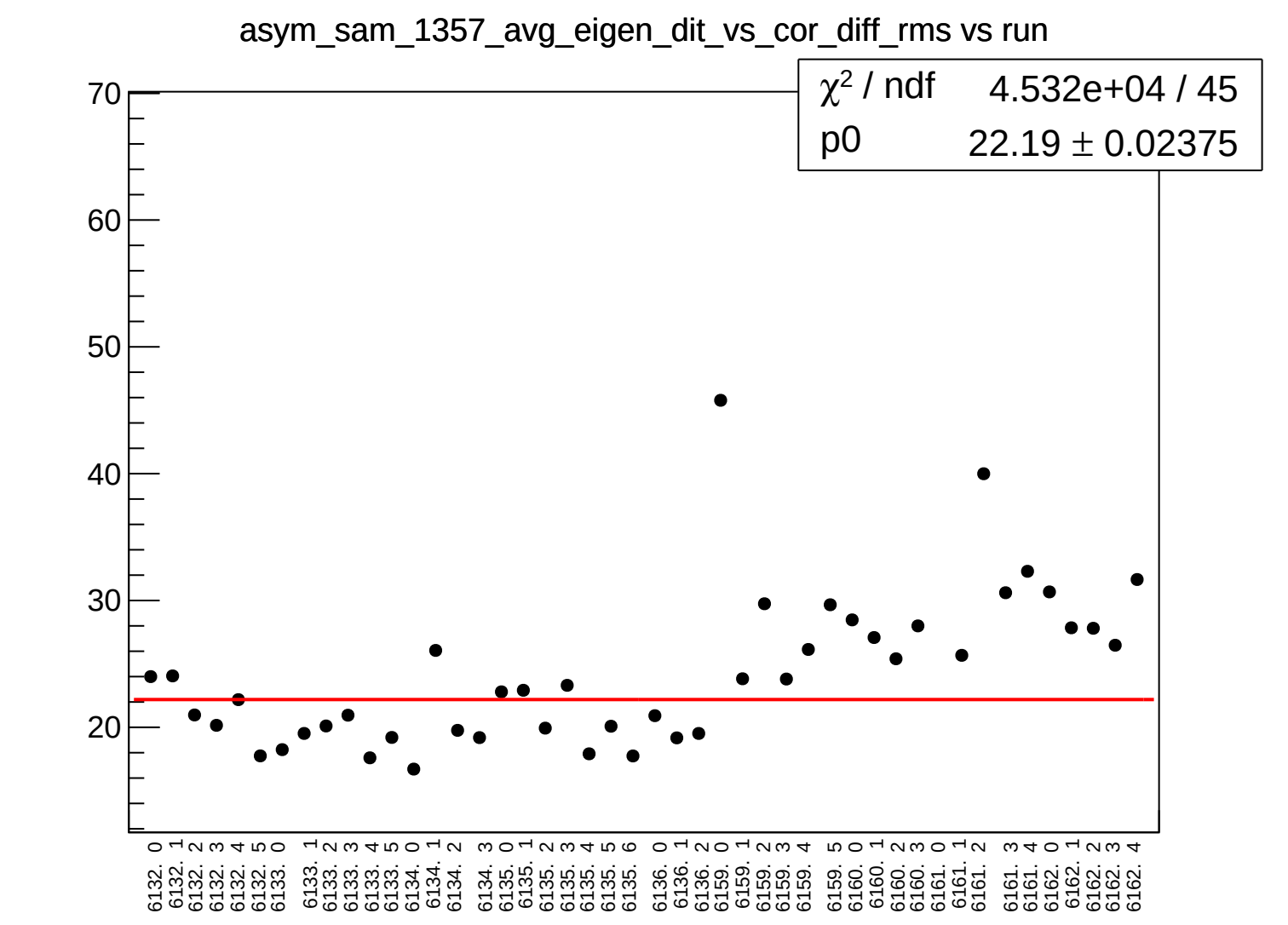
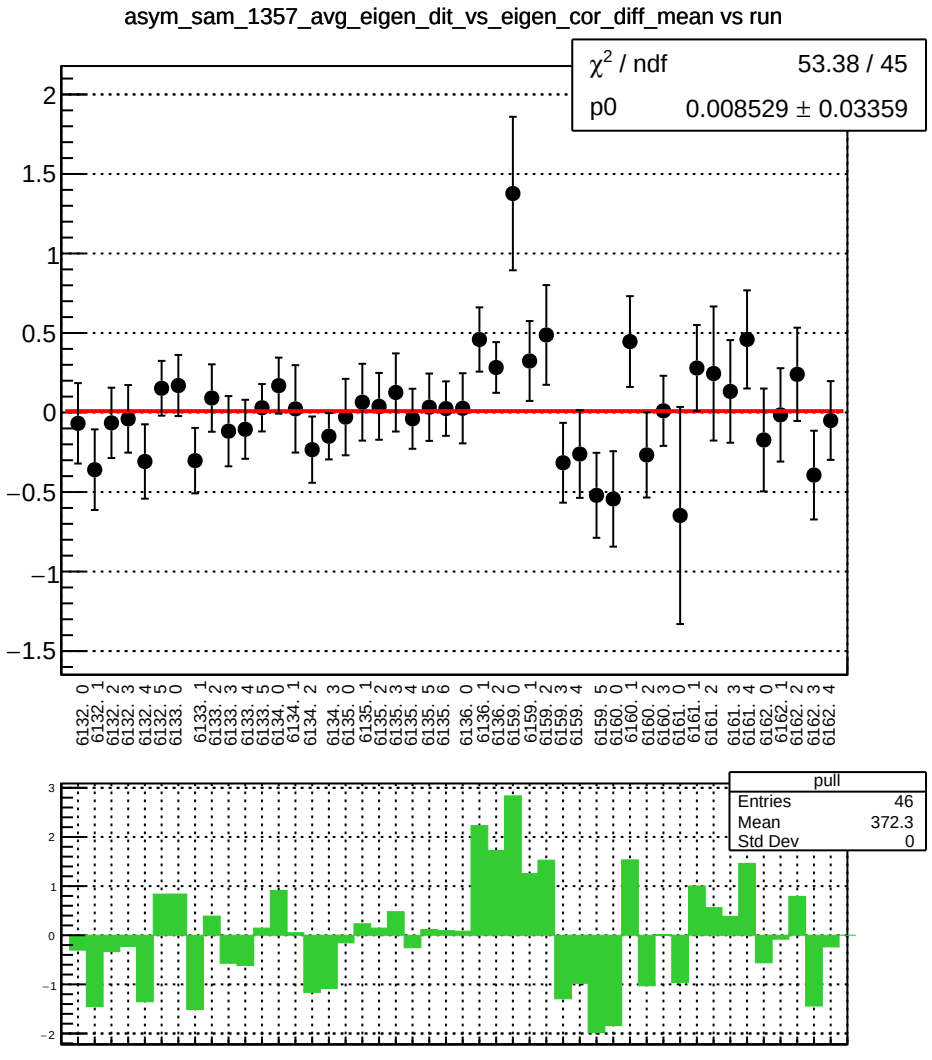
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −558.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.005608
Std Dev 1.071
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

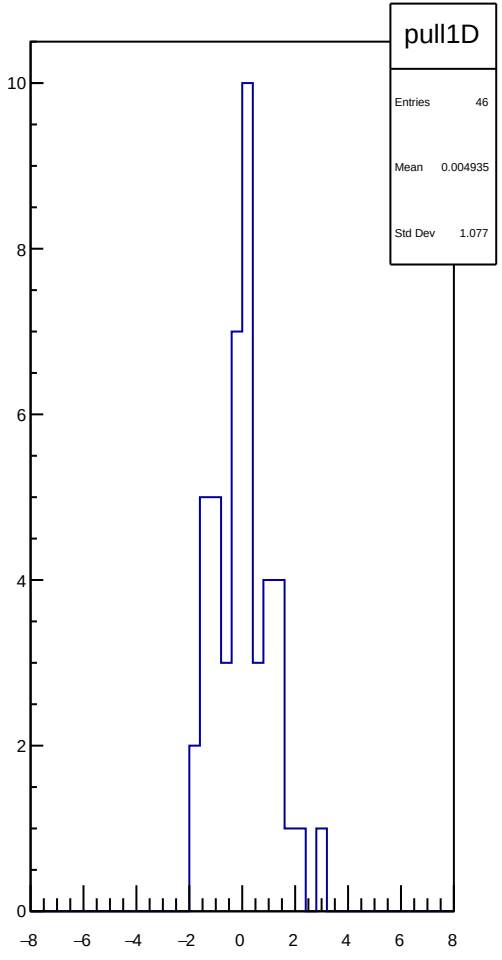

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5216 / 45
p0 0.00253 ± 2.648e–06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

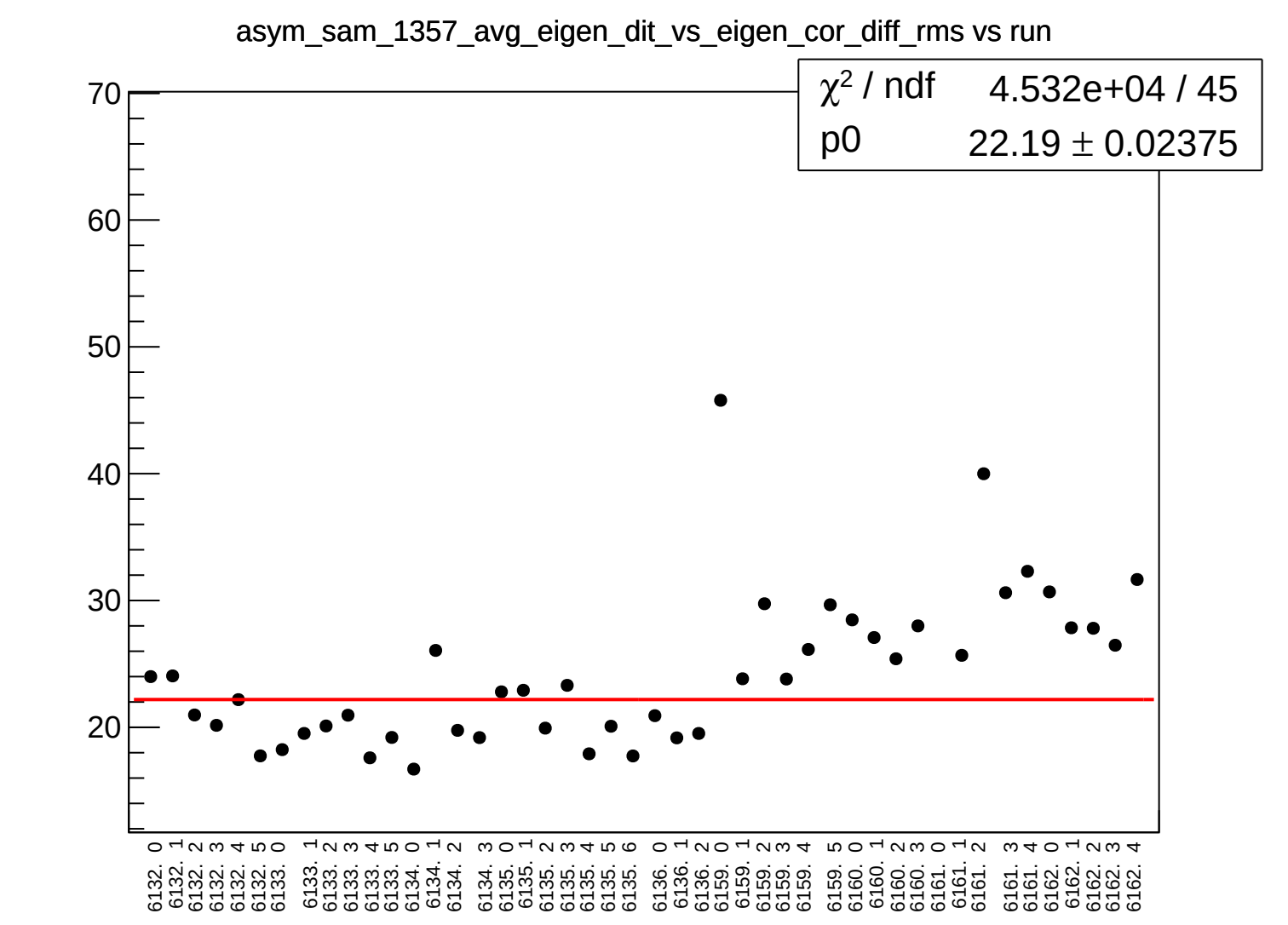

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 53.38 / 45
p0 0.008529 ± 0.03359
pull
Entries 46
Mean 372.3
Std Dev 0

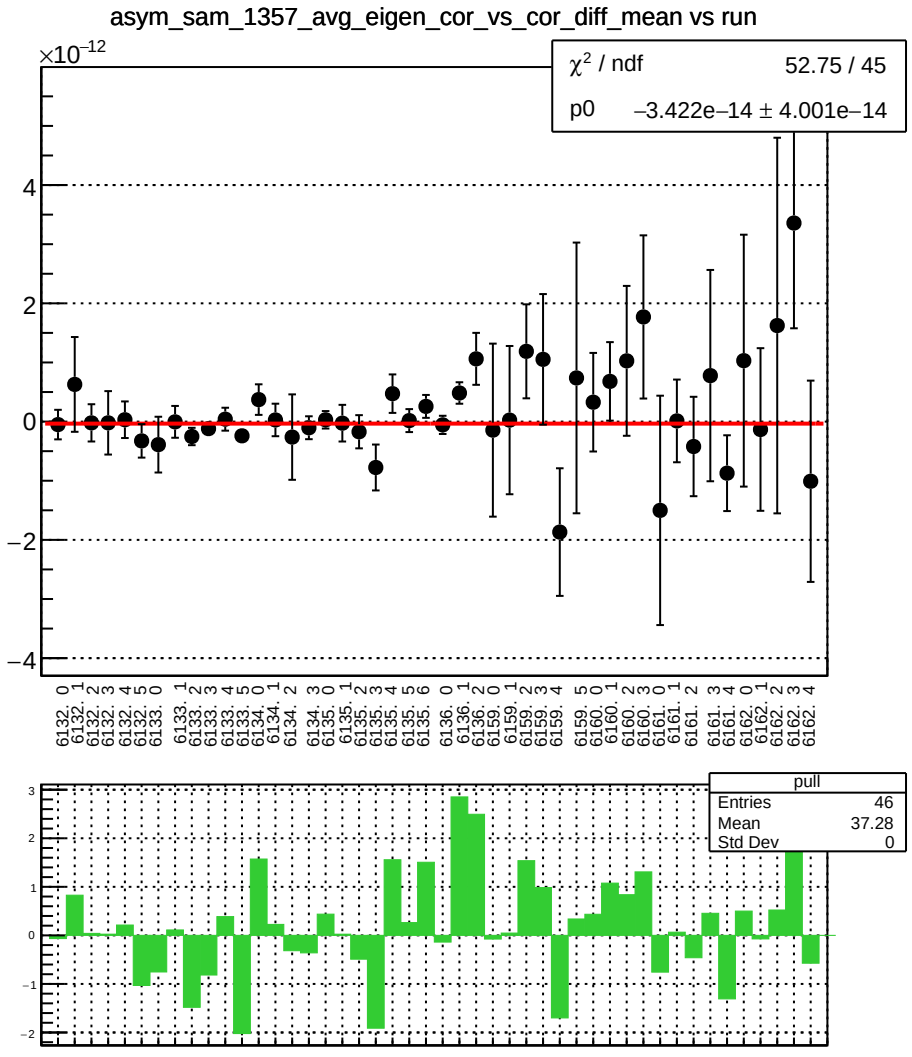

pull1D
Entries 46
Mean 0.004935
Std Dev 1.077

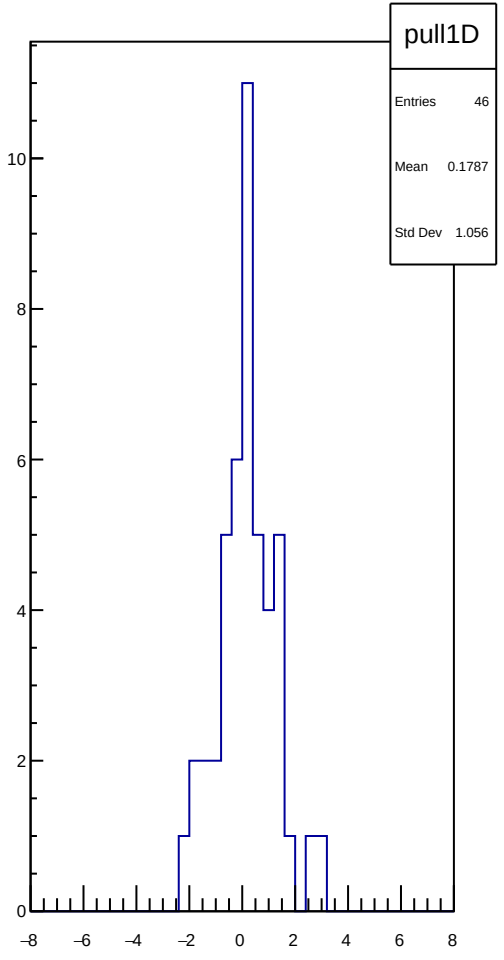

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.532e+04 / 45
p0 22.19 ± 0.02375
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

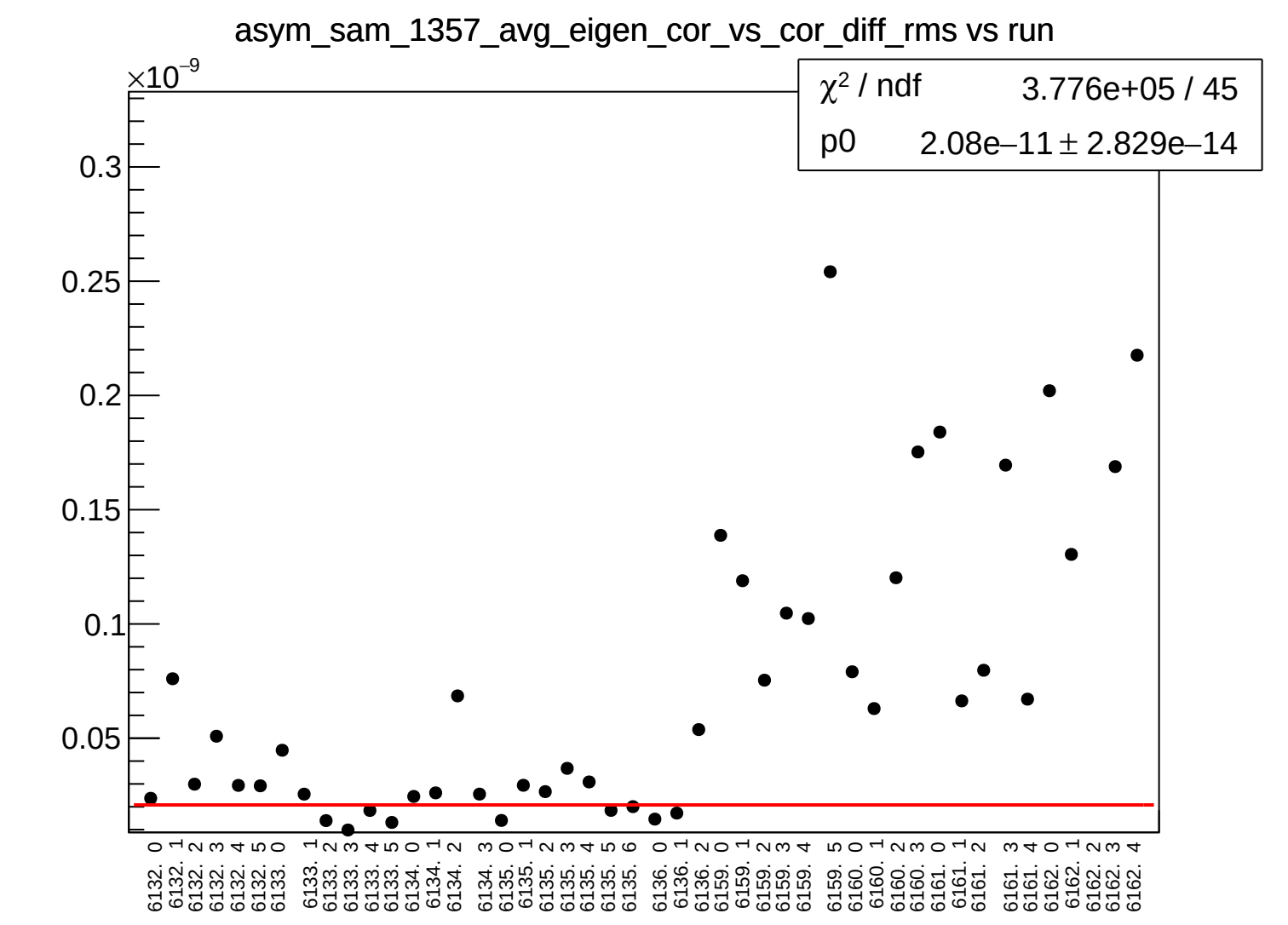

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 53.38 / 45
p0 0.008529 ± 0.03359
pull
Entries 46
Mean 372.3
Std Dev 0

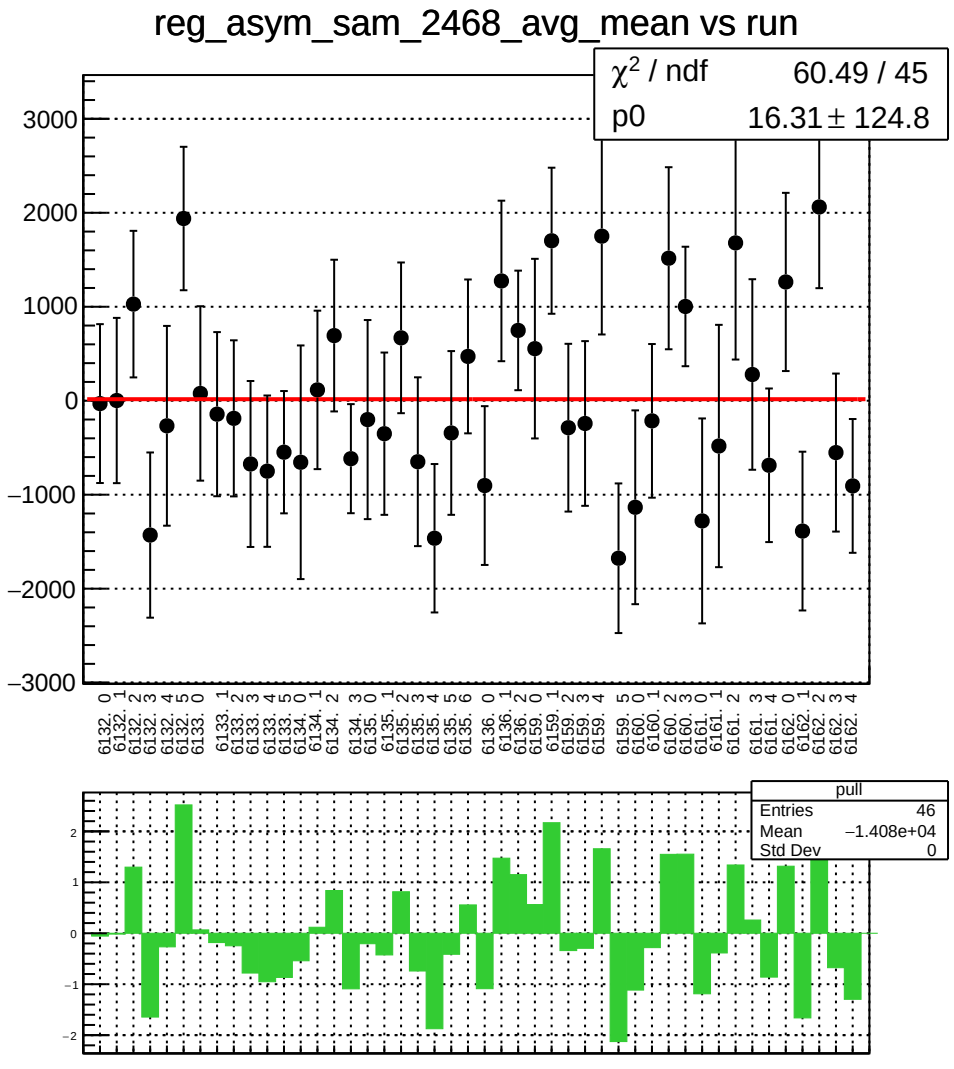

pull1D
Entries 46
Mean 0.004935
Std Dev 1.077

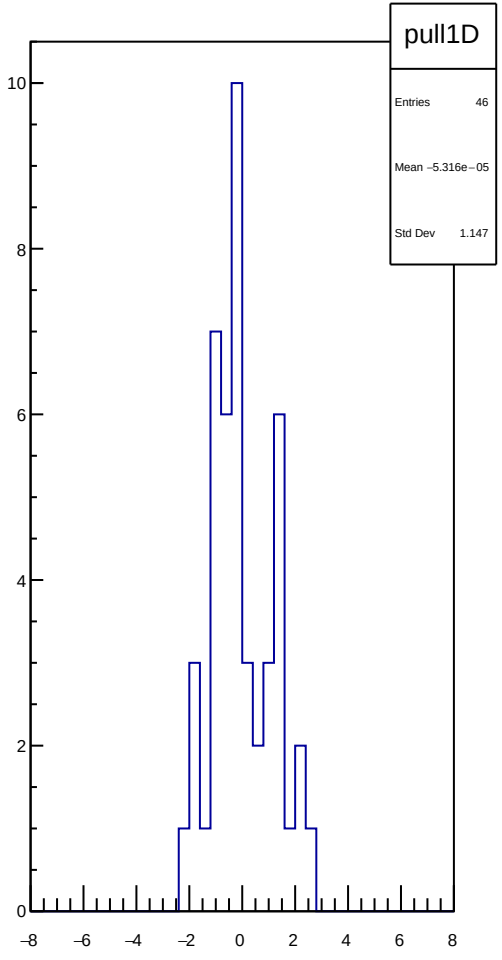

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.532e+04 / 45
p0 22.19 ± 0.02375
70
60
50
40
30
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

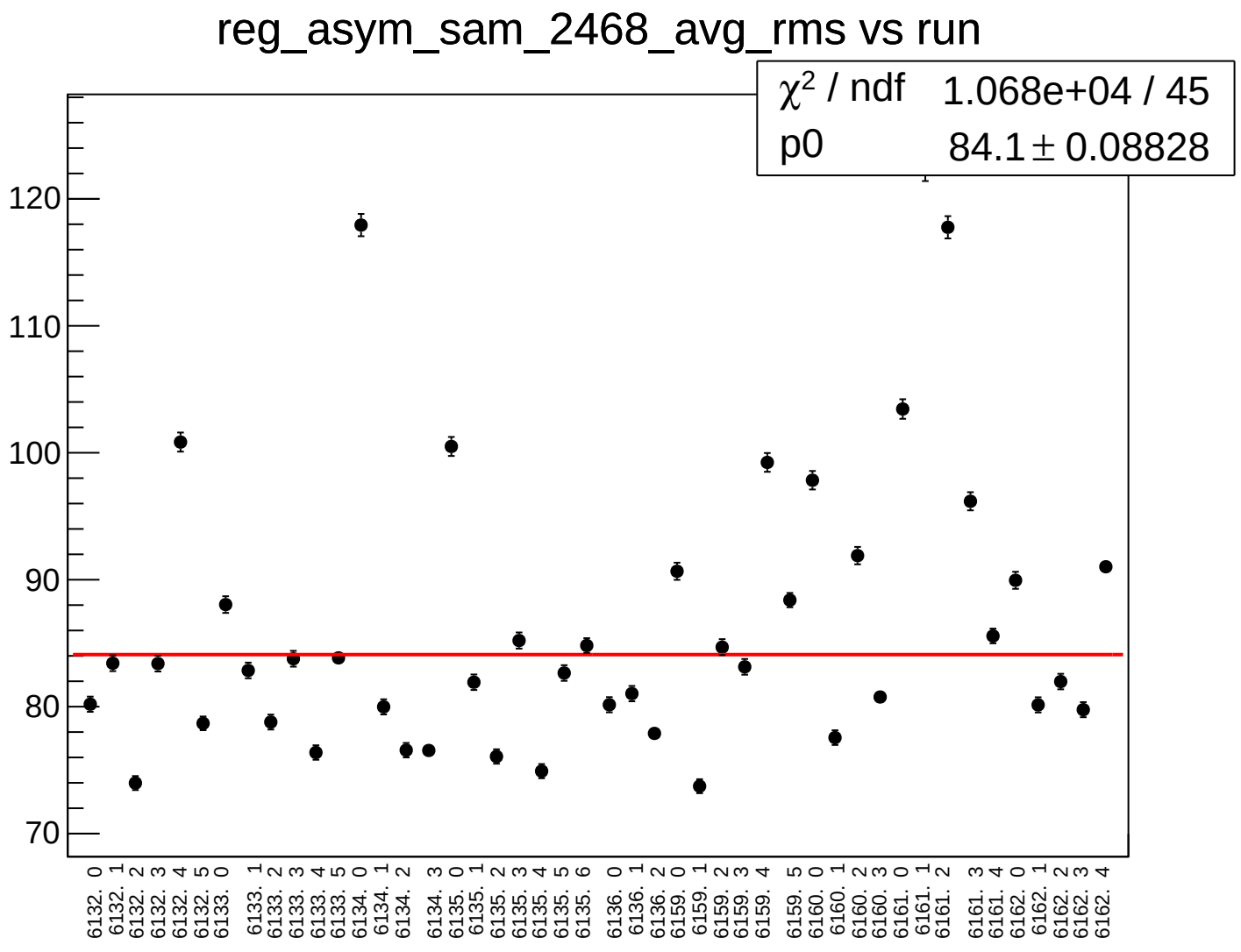

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10^-12
χ² / ndf 52.75 / 45
p0 −3.422e−14 ± 4.001e−14
pull
Entries 46
Mean 37.28
Std Dev 0


pull1D
Entries 46
Mean 0.1787
Std Dev 1.056


asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.776e+05 / 45
p0 2.08e−11 ± 2.829e−14
0.3
0.25
0.2
0.15
0.1
0.05
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


reg_asym_sam_2468_avg_mean vs run
χ^2 / ndf 60.49 / 45
p0 16.31 ± 124.8
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1.408e+04
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −5.316e−05
Std Dev 1.147
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_2468_avg_rms vs run
χ² / ndf 1.068e+04 / 45
p0 84.1 ± 0.08828
120
110
100
90
80
70
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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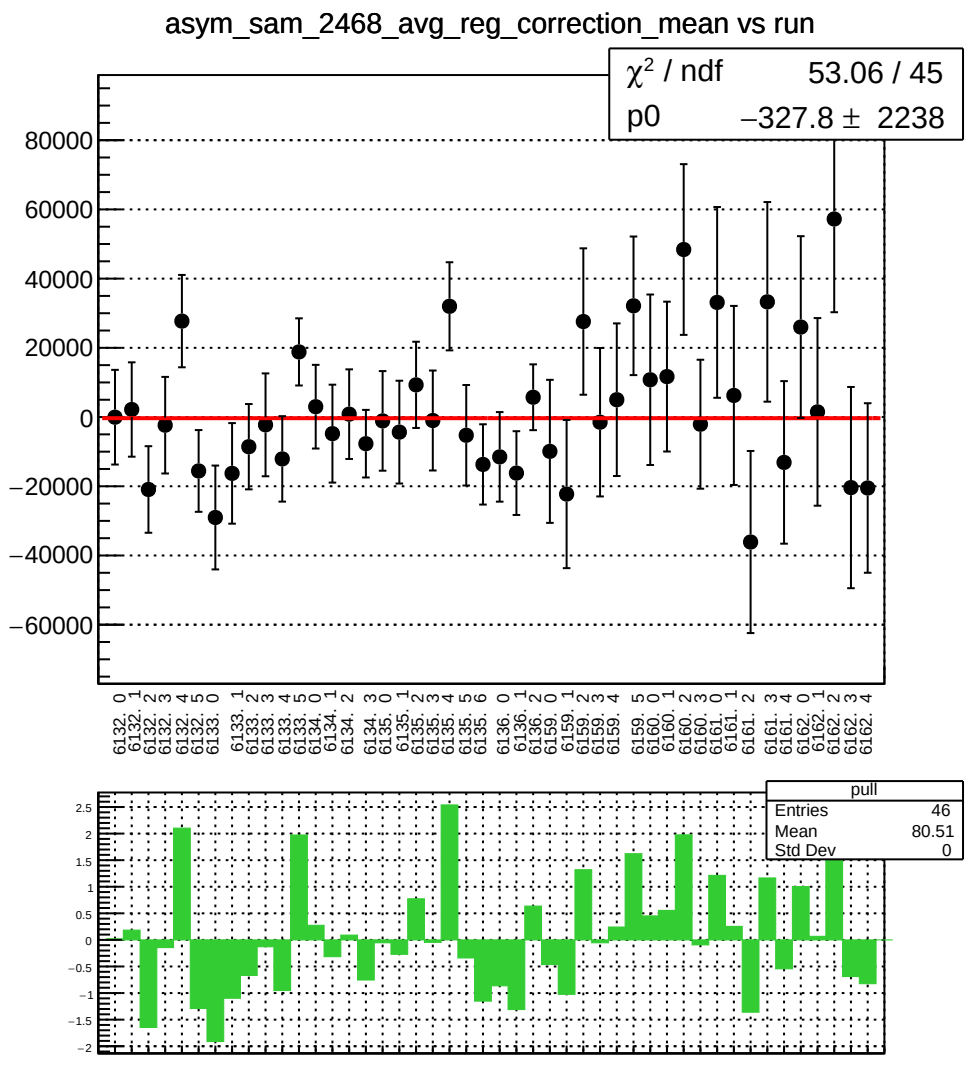
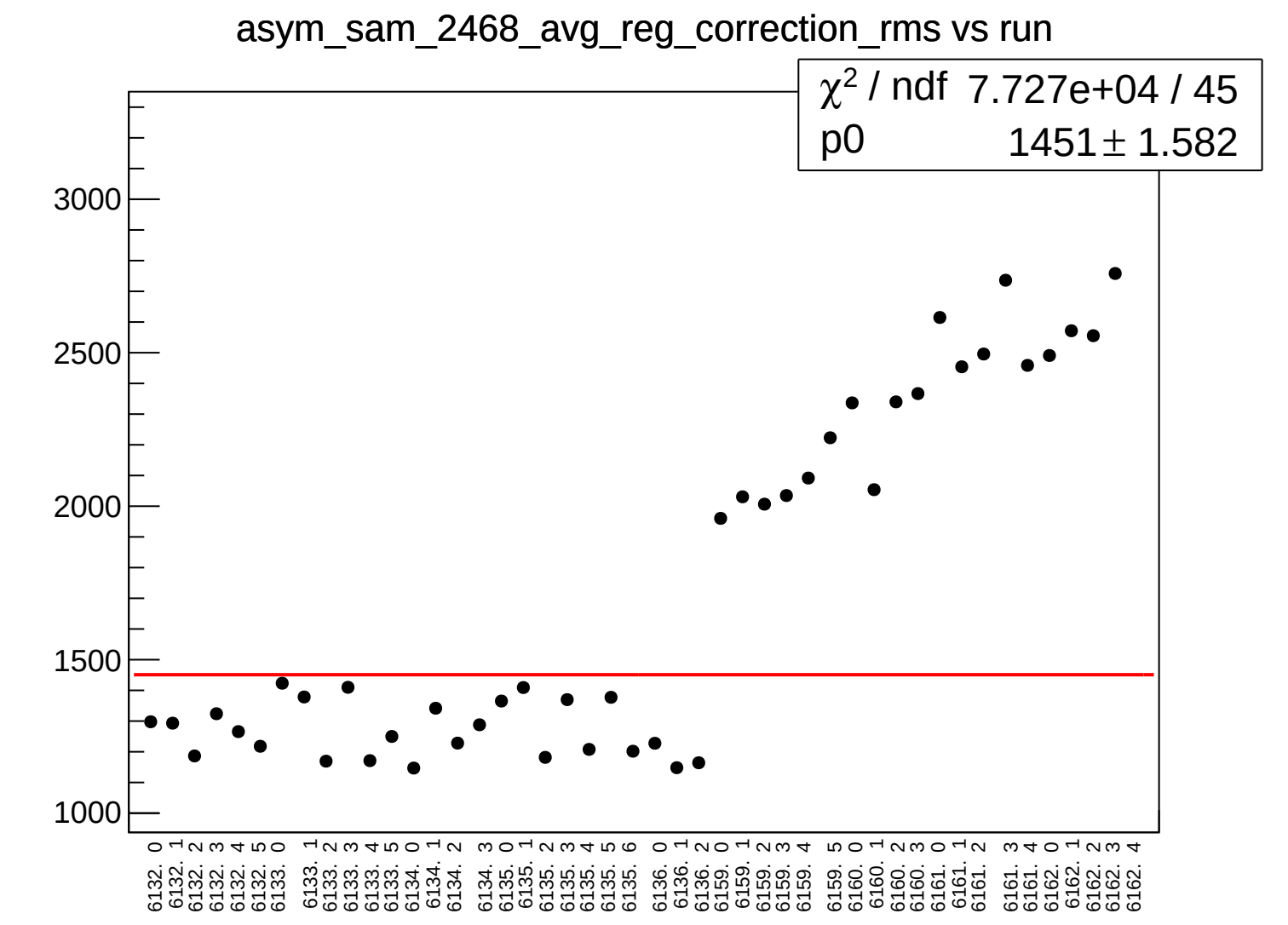
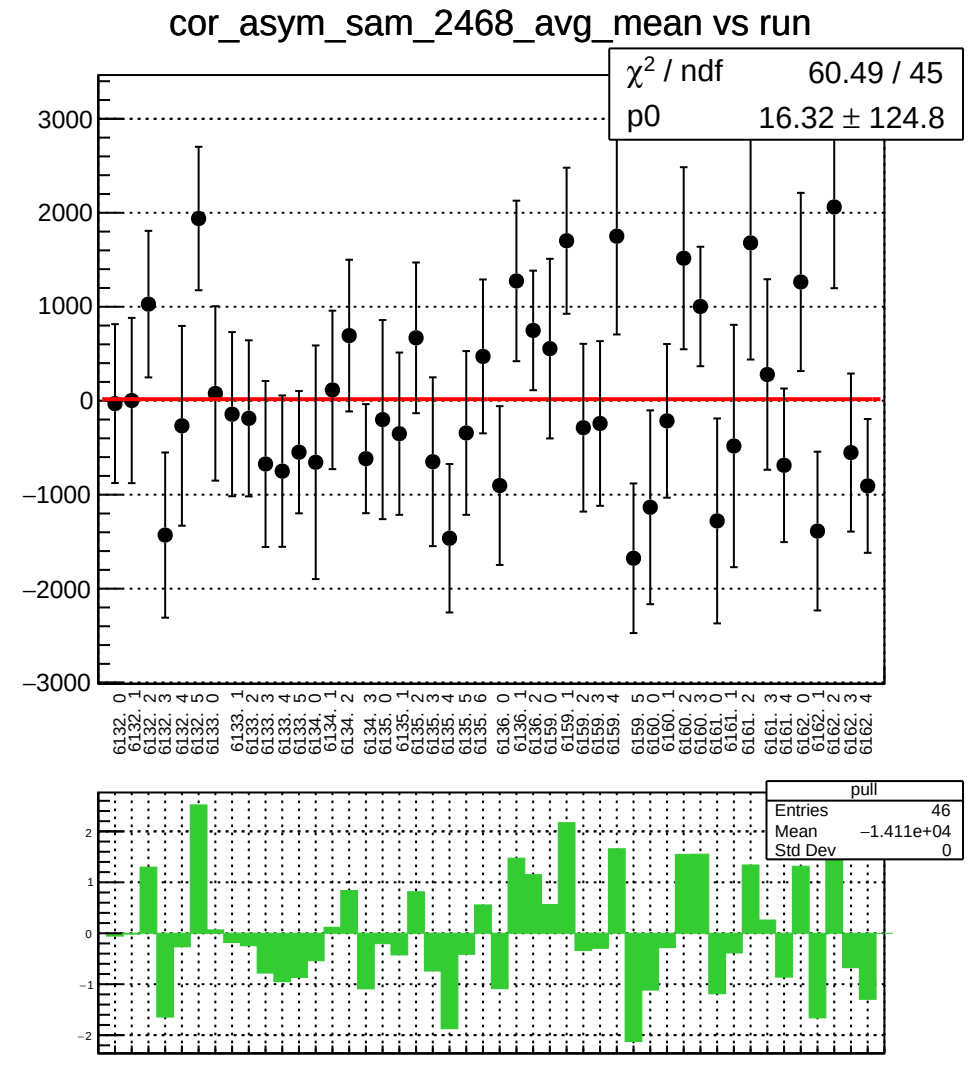
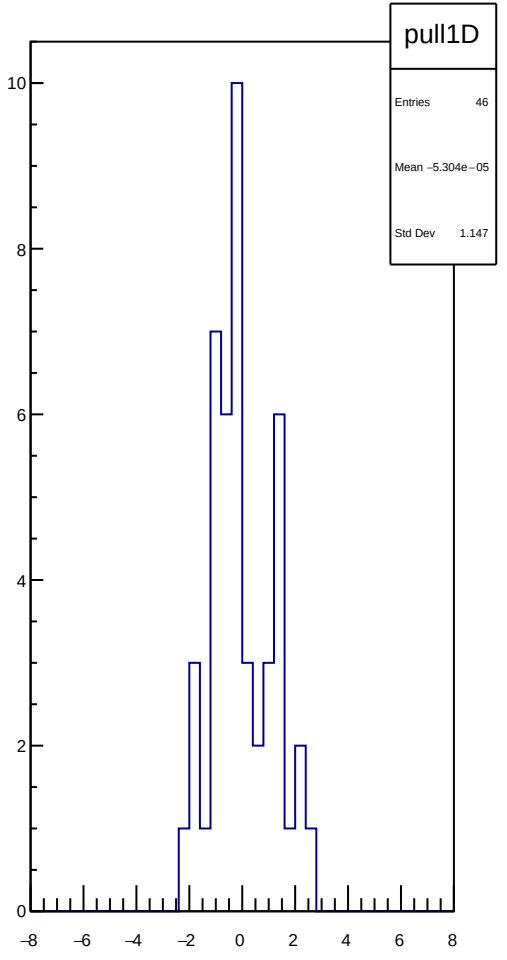
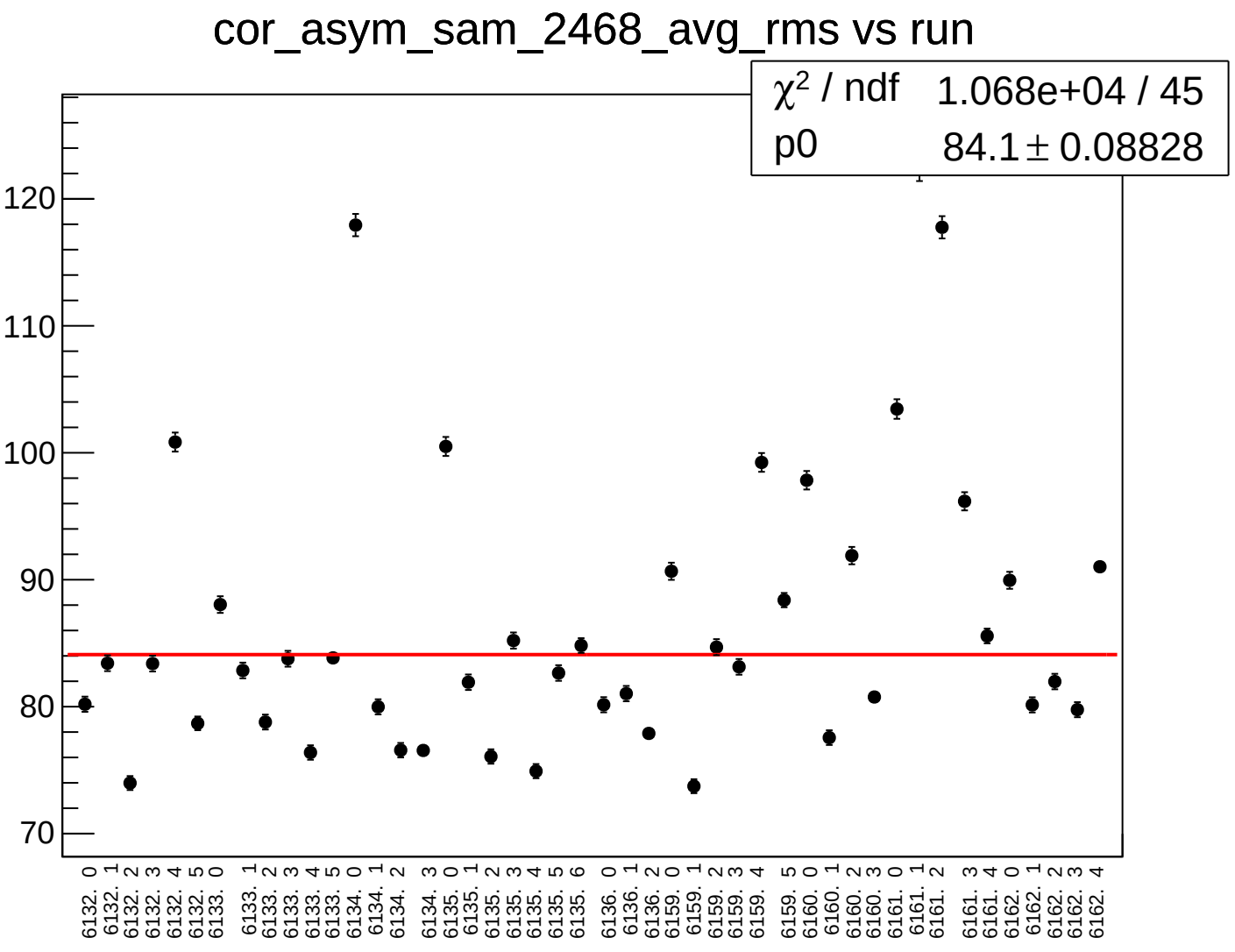
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 53.06 / 45
p0 −327.8 ± 2238
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 80.51
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.0565
Std Dev 1.073
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 7.727e+04 / 45
p0 1451 ± 1.582
3000
2500
2000
1500
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


cor_asym_sam_2468_avg_mean vs run
χ² / ndf 60.49 / 45
p0 16.32 ± 124.8
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1.411e+04
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean −5.304e−05
Std Dev 1.147
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_2468_avg_rms vs run
χ² / ndf 1.068e+04 / 45
p0 84.1 ± 0.08828
120
110
100
90
80
70
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
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6135. 5
6135. 6
6136. 0
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6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 4
6162. 0
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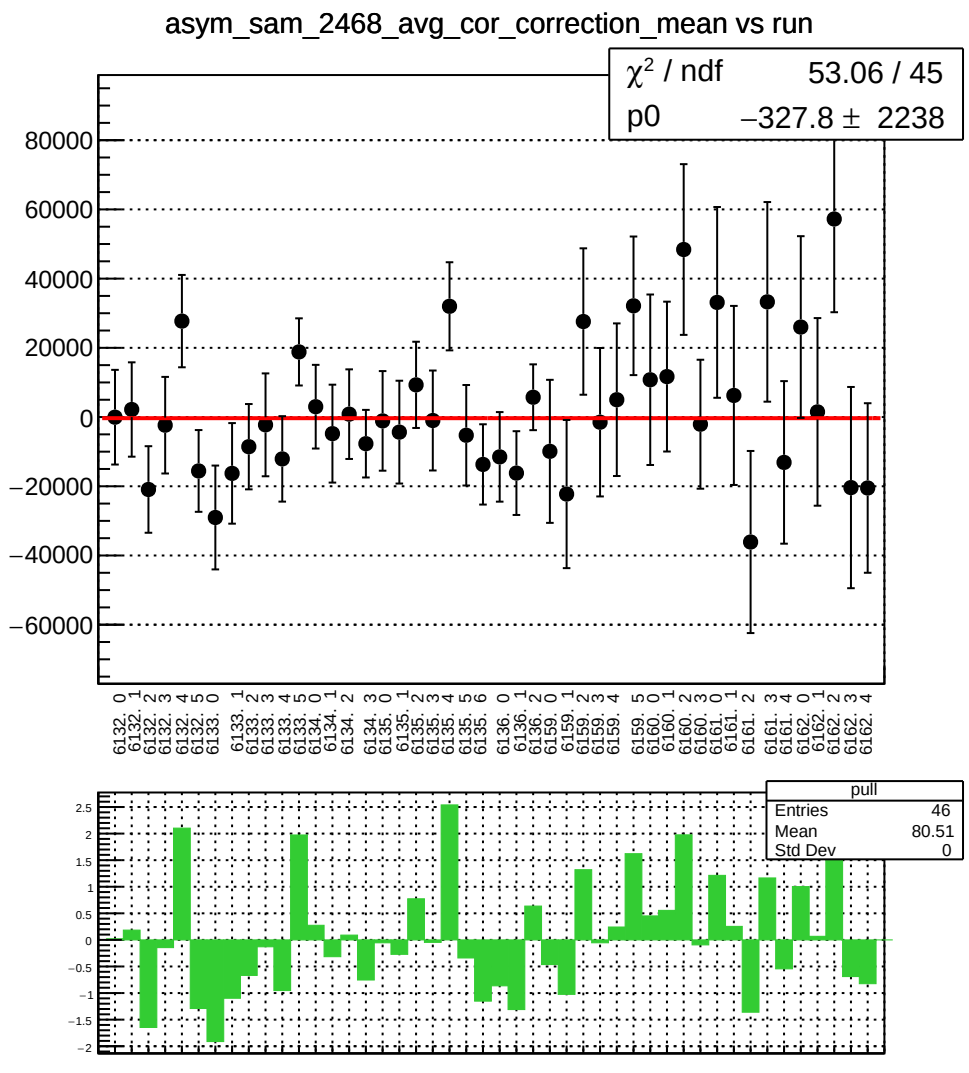
6162. 2
6162. 3
6162. 4


asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 53.06 / 45
p0 −327.8 ± 2238
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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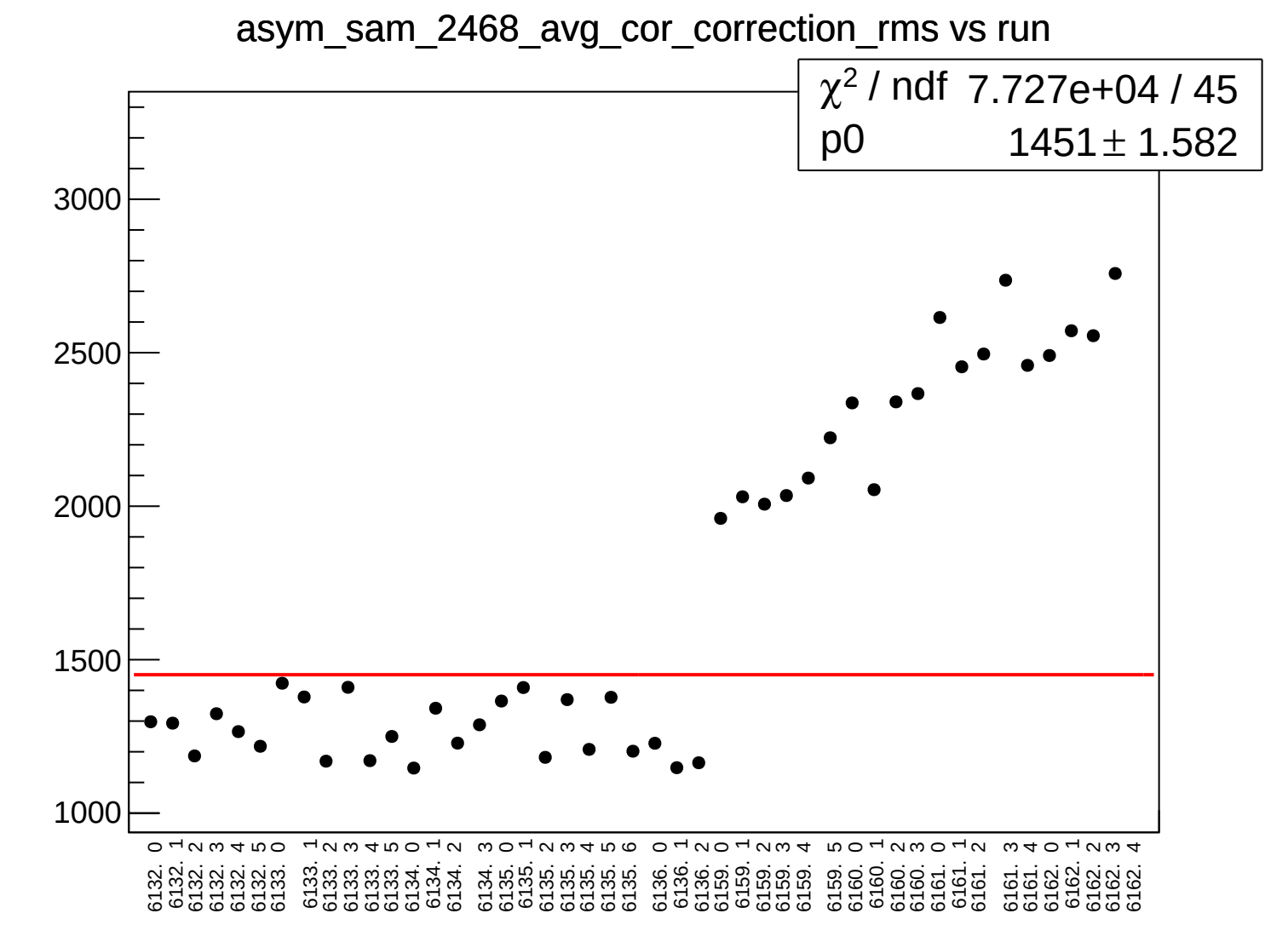
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 80.51
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.0565
Std Dev 1.073
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 7.727e+04 / 45
p0 1451 ± 1.582
3000
2500
2000
1500
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
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6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
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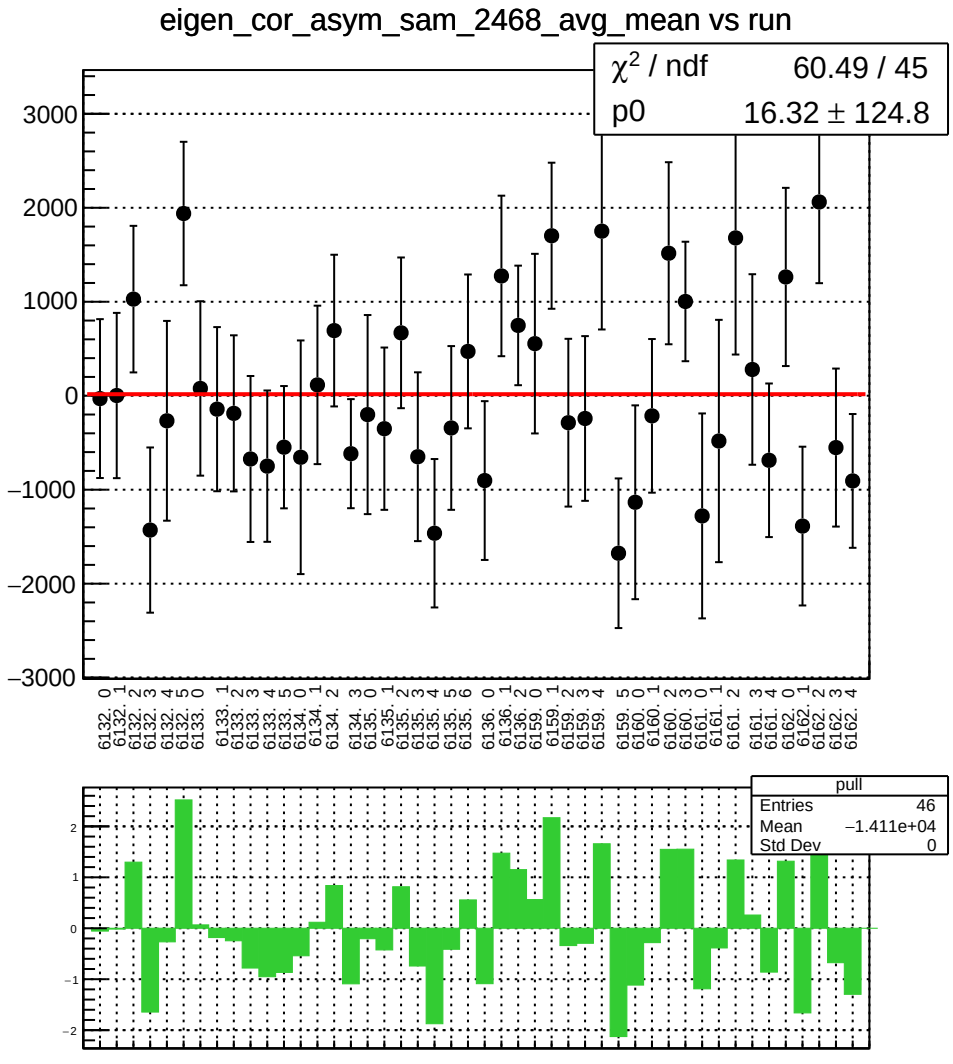
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 60.49 / 45
p0 16.32 ± 124.8
3000
2000
1000
0
−1000
−2000
−3000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
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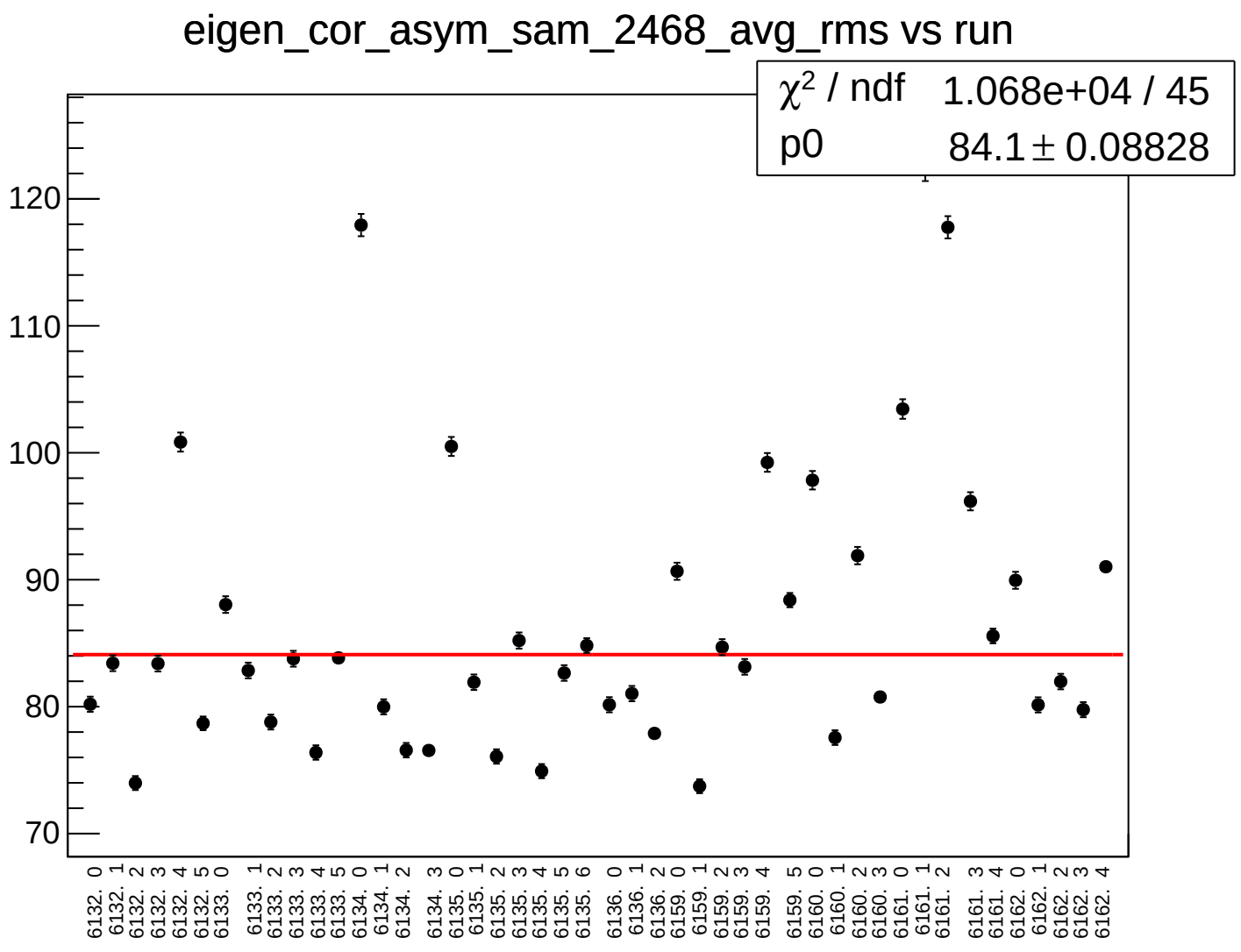
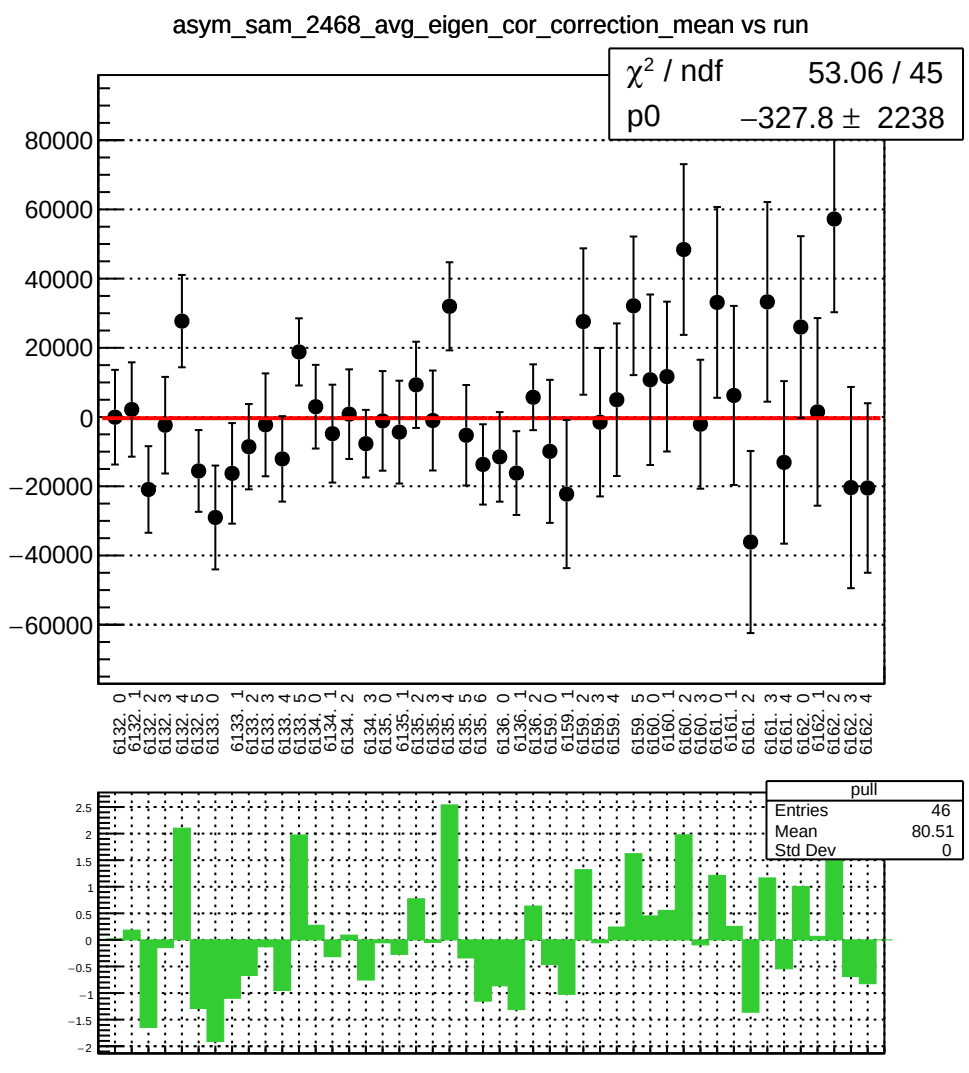
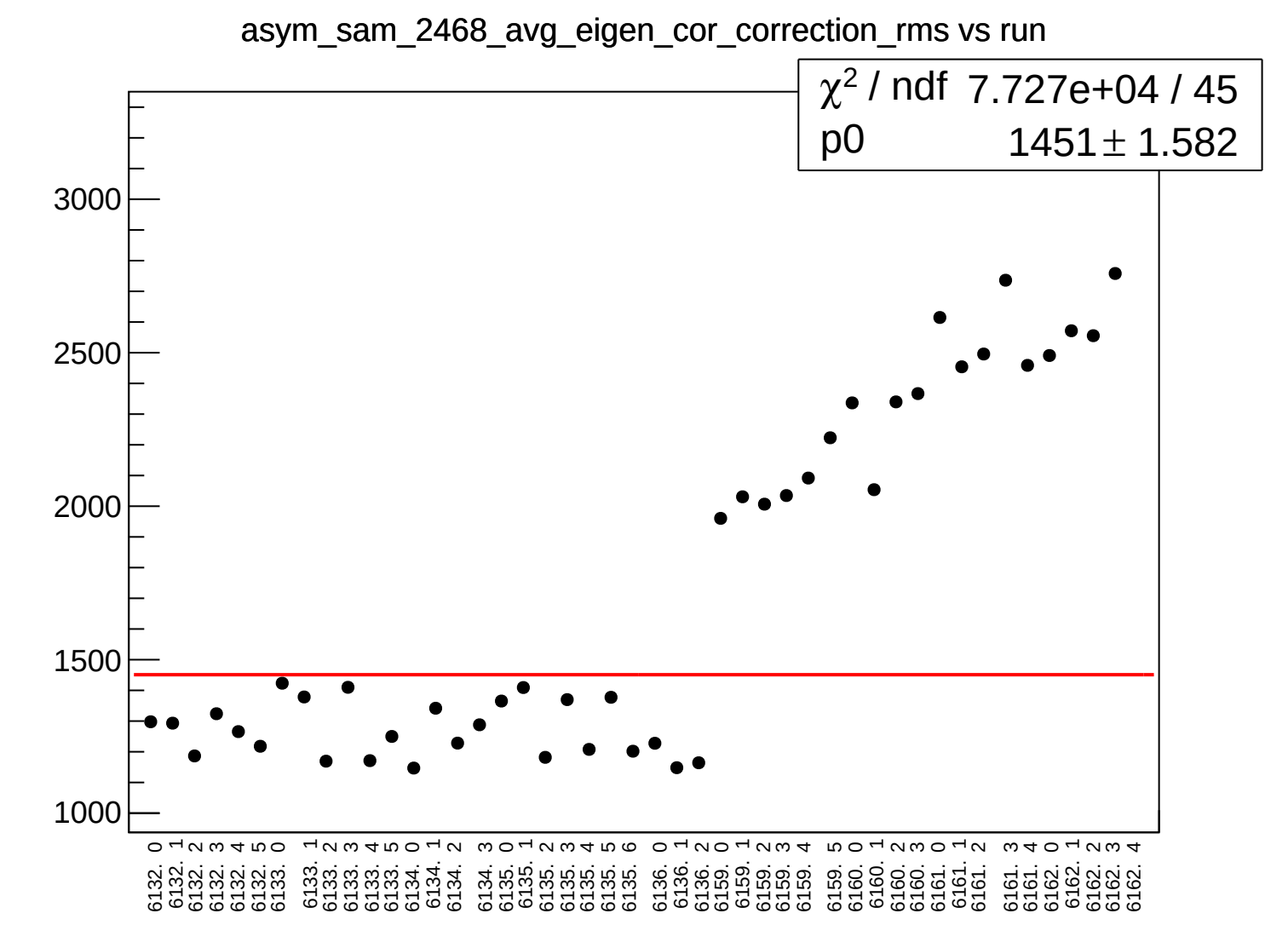
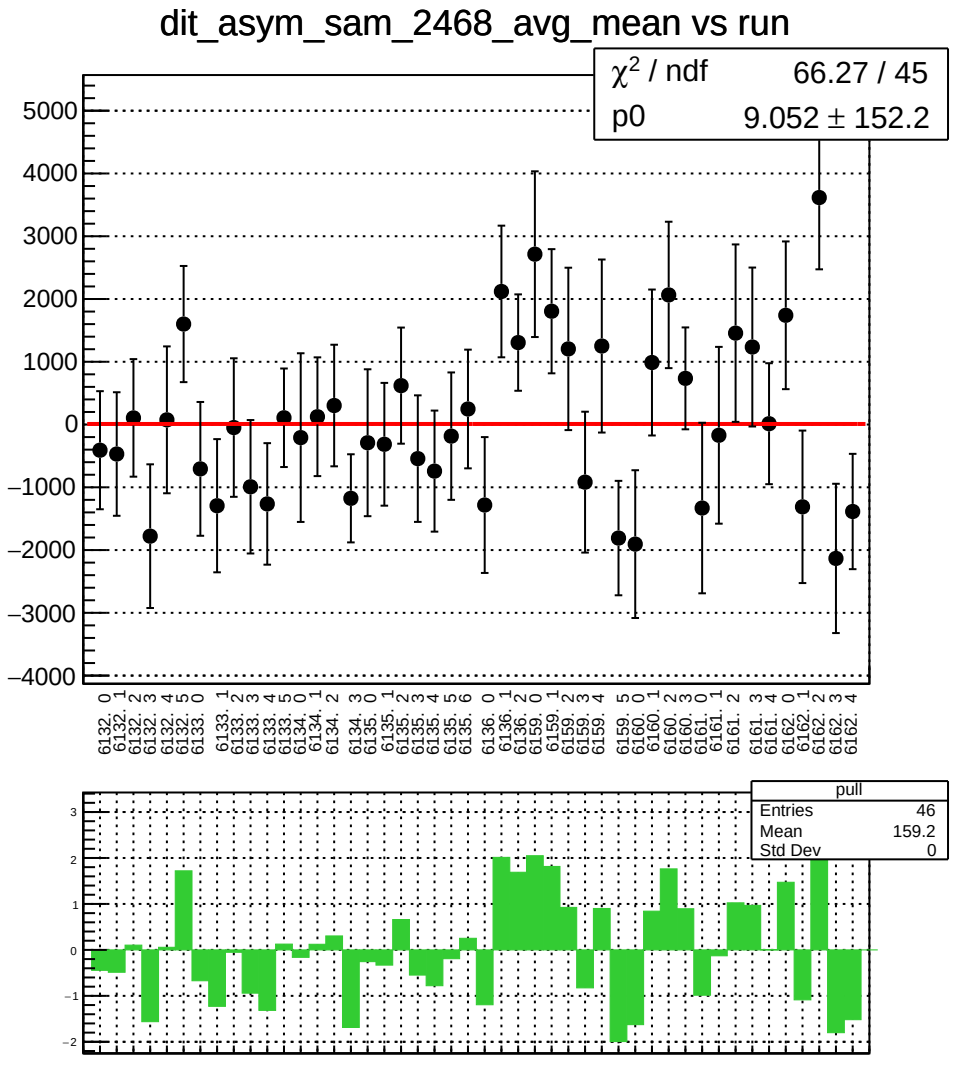
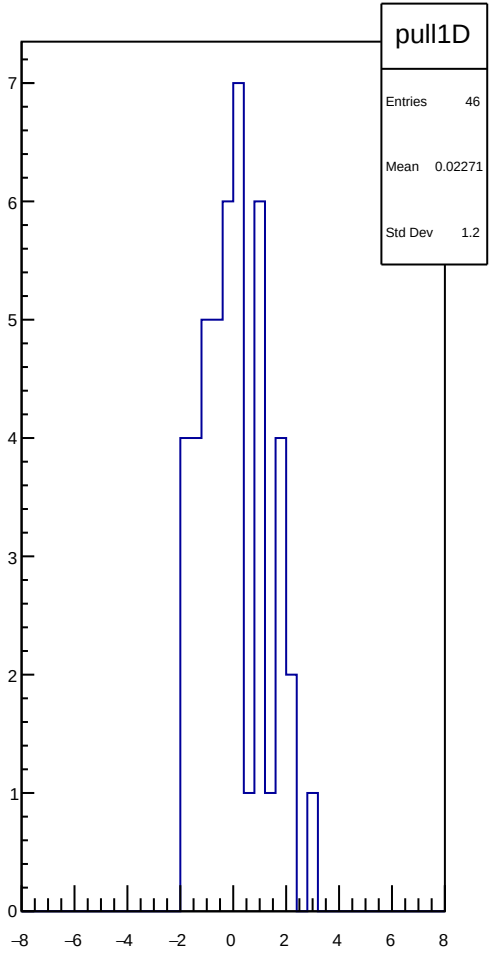
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1.411e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean −5.304e−05
Std Dev 1.147
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

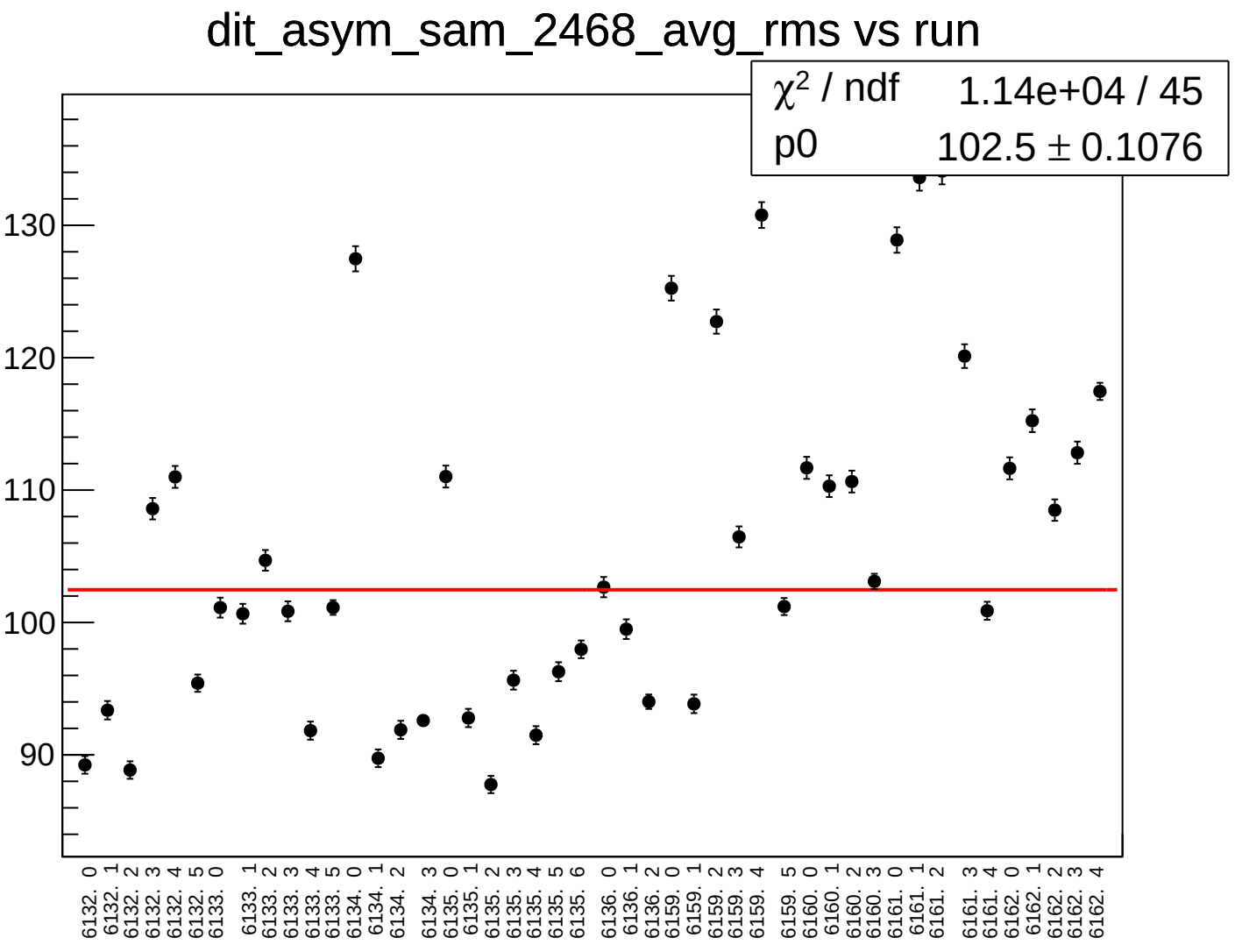

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 1.068e+04 / 45
p0 84.1 ± 0.08828
120
110
100
90
80
70
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

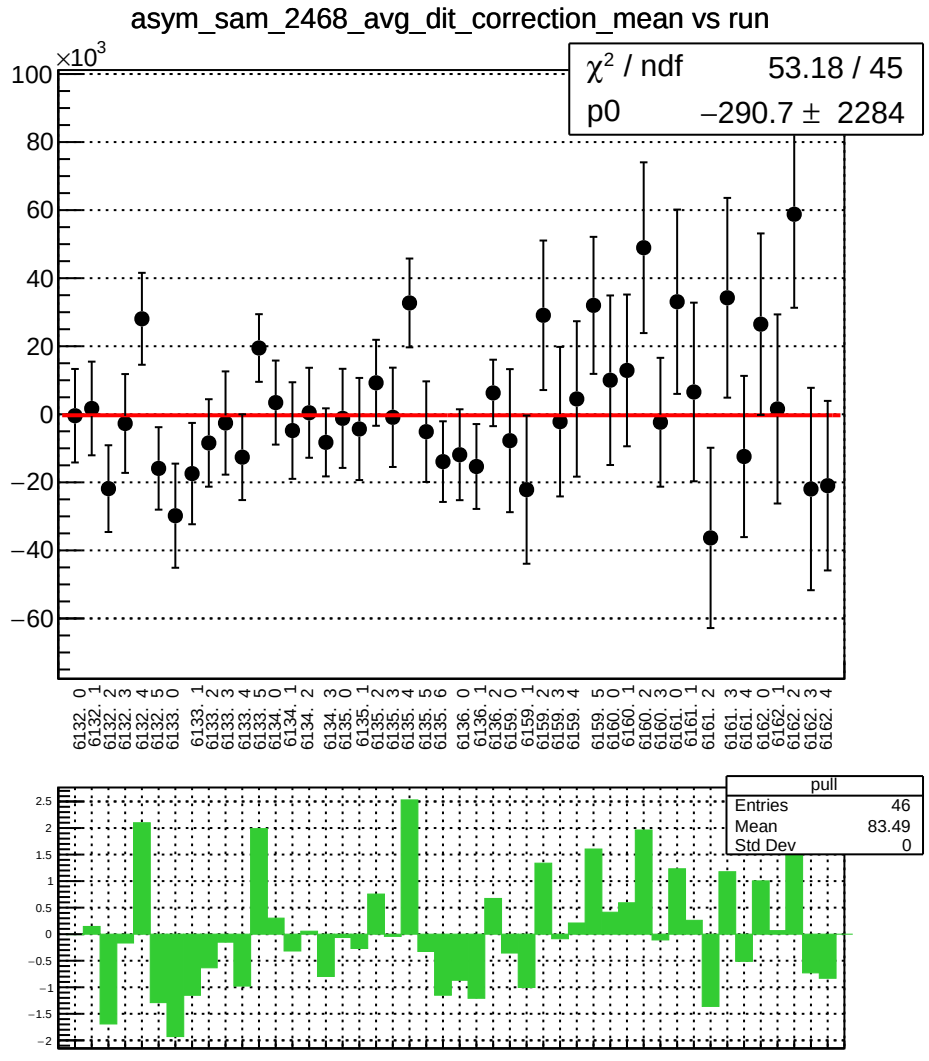

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 53.06 / 45
p0 −327.8 ± 2238
80000
60000
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 80.51
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.0565
Std Dev 1.073
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

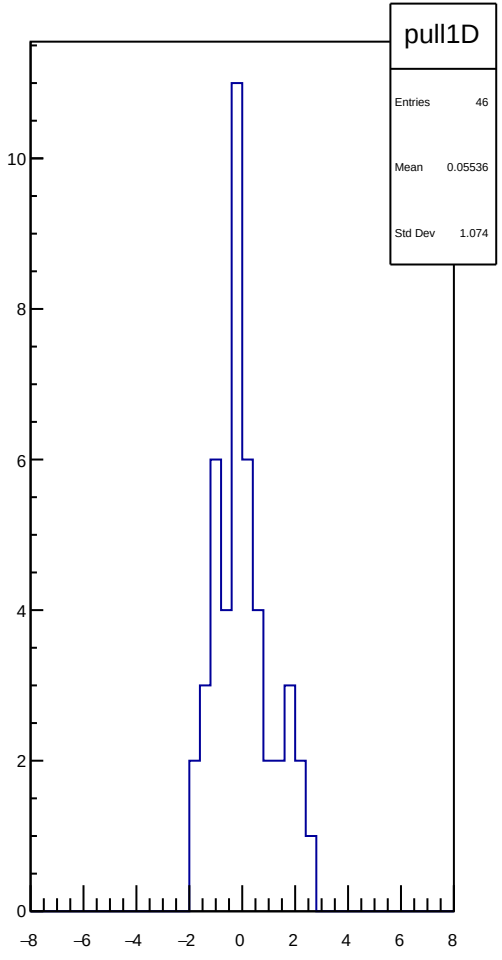

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 7.727e+04 / 45
p0 1451 ± 1.582
3000
2500
2000
1500
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

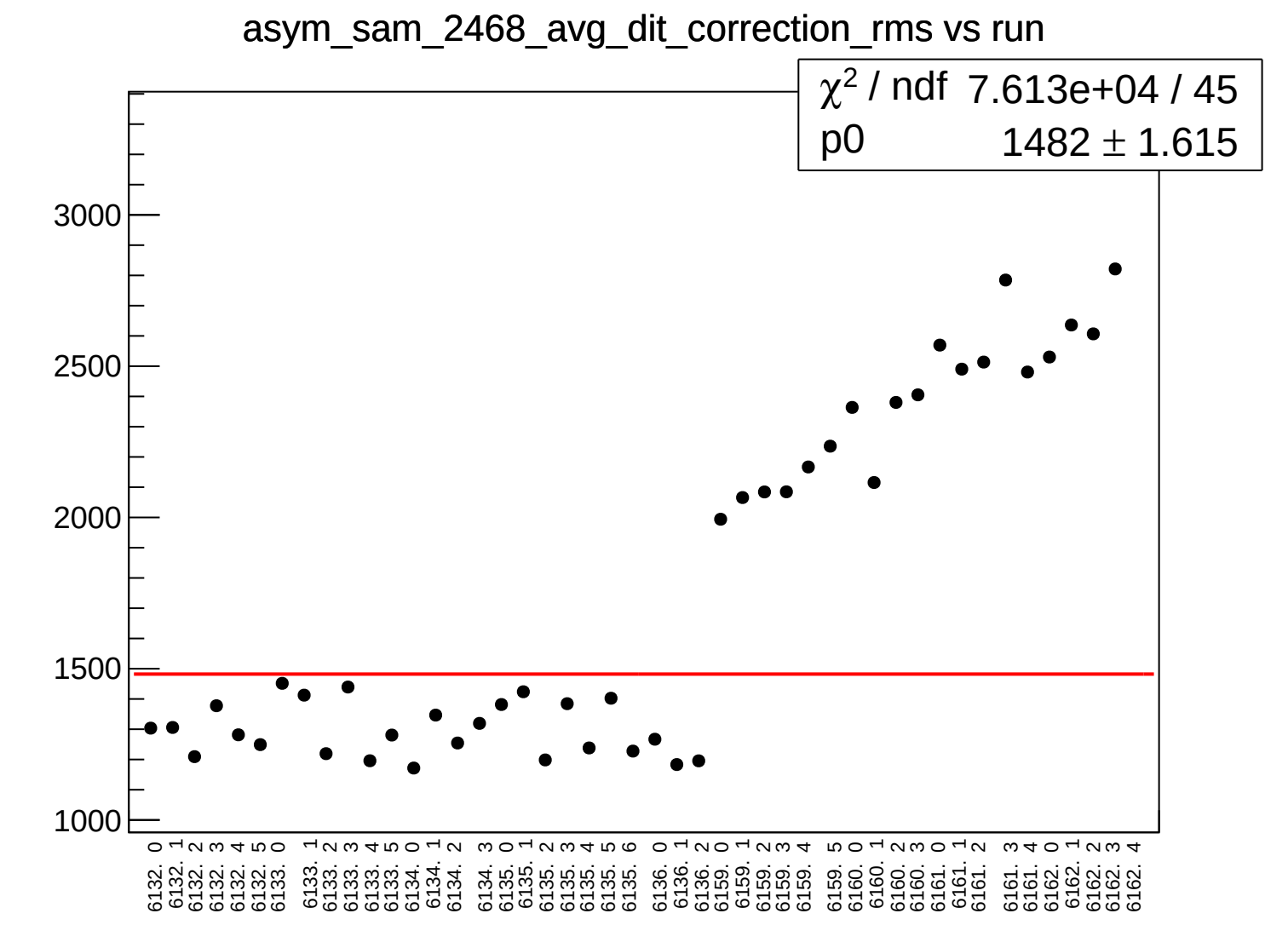

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 66.27 / 45
p0 9.052 ± 152.2
pull
Entries 46
Mean 159.2
Std Dev 0

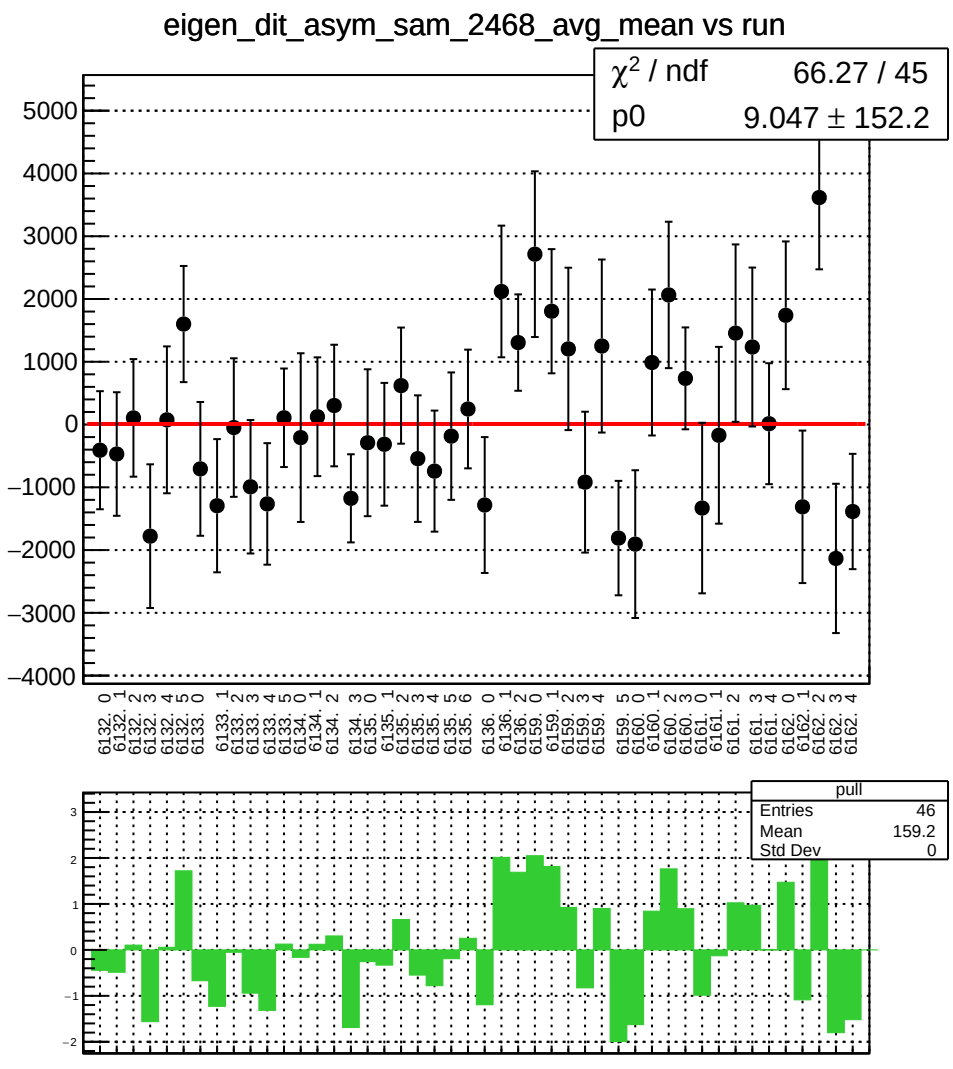

pull1D
Entries 46
Mean 0.02271
Std Dev 1.2

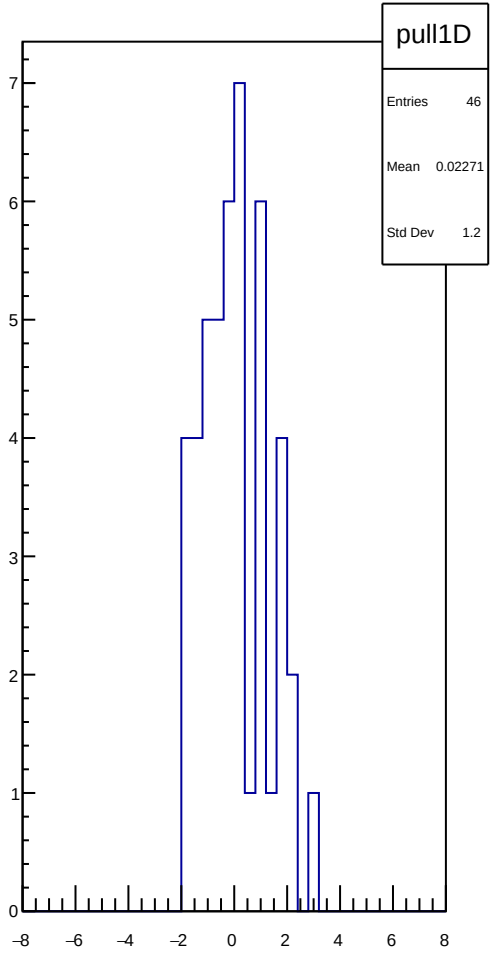

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.14e+04 / 45
p0 102.5 ± 0.1076
130
120
110
100
90
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

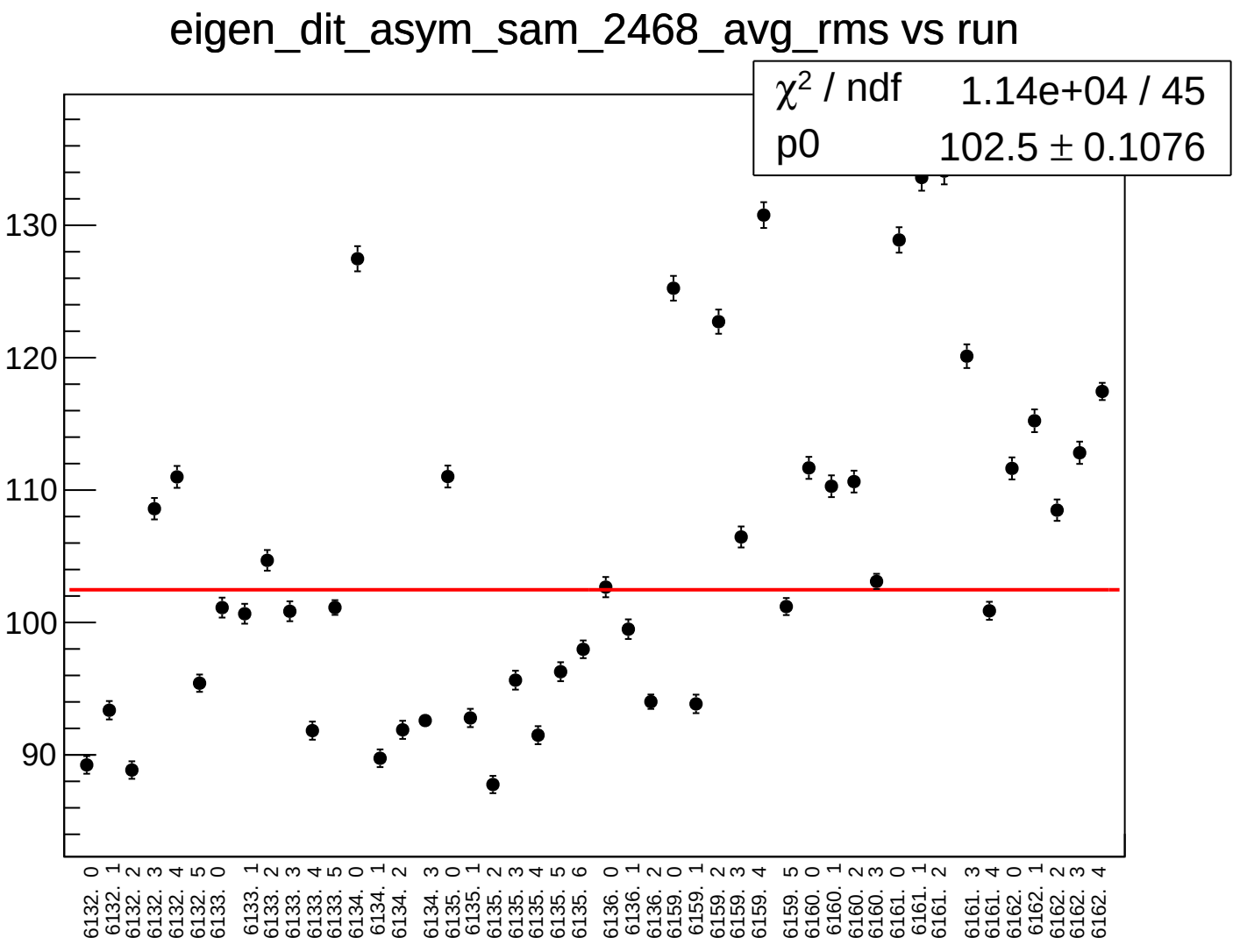

asym_sam_2468_avg_dit_correction_mean vs run
×10^3
χ² / ndf 53.18 / 45
p0 −290.7 ± 2284
pull
Entries 46
Mean 83.49
Std Dev 0

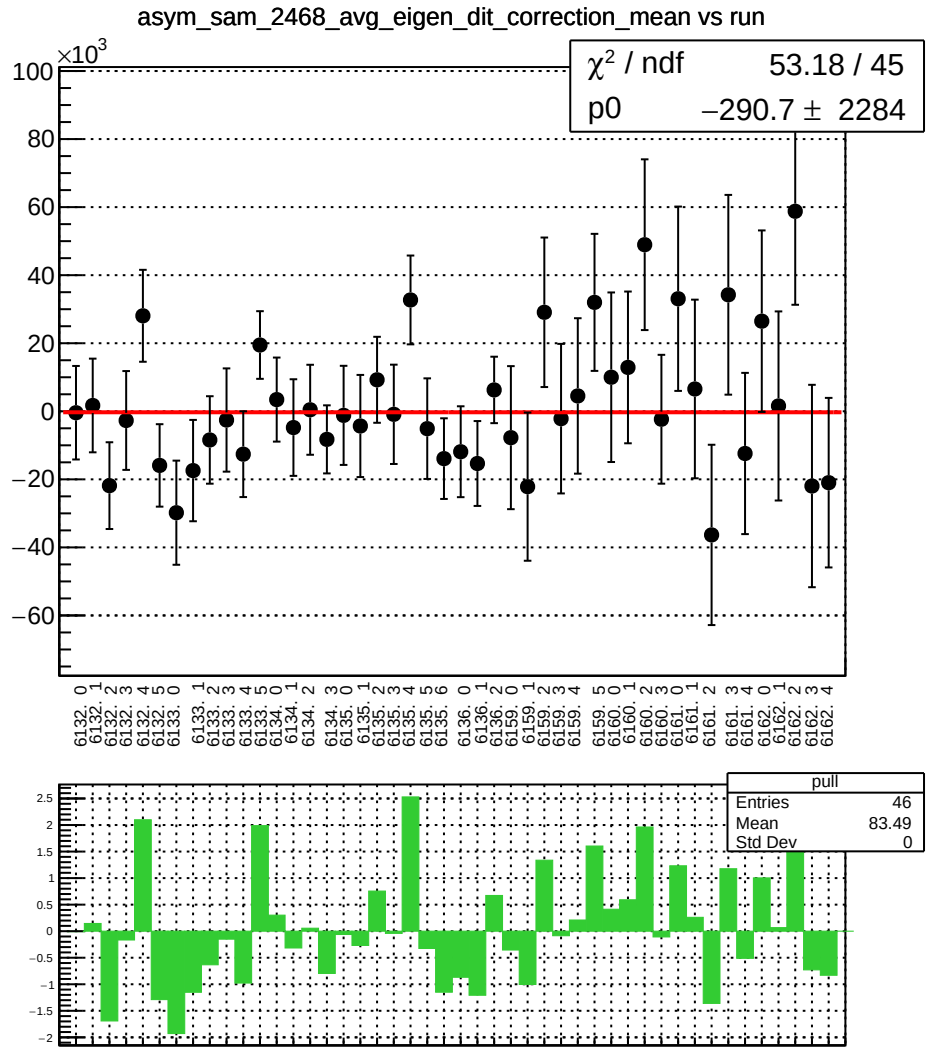

pull1D
Entries 46
Mean 0.05536
Std Dev 1.074

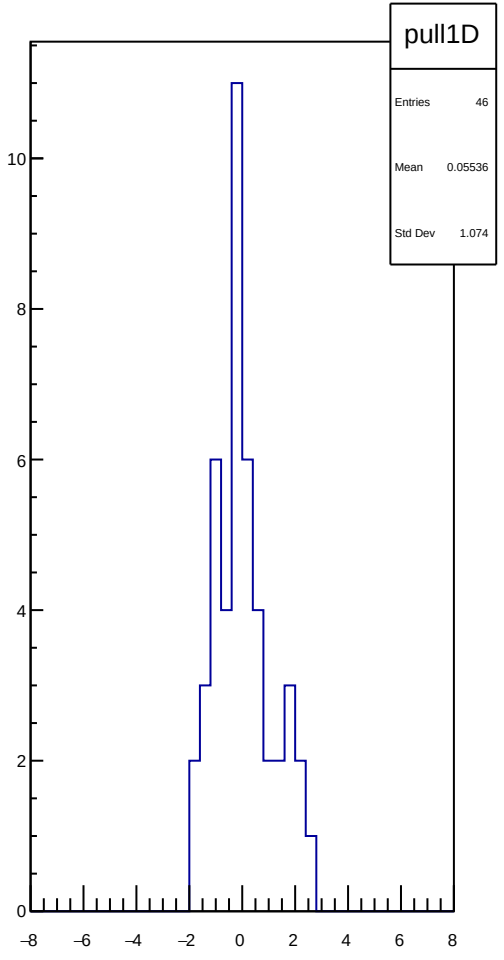

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 7.613e+04 / 45
p0 1482 ± 1.615
3000
2500
2000
1500
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

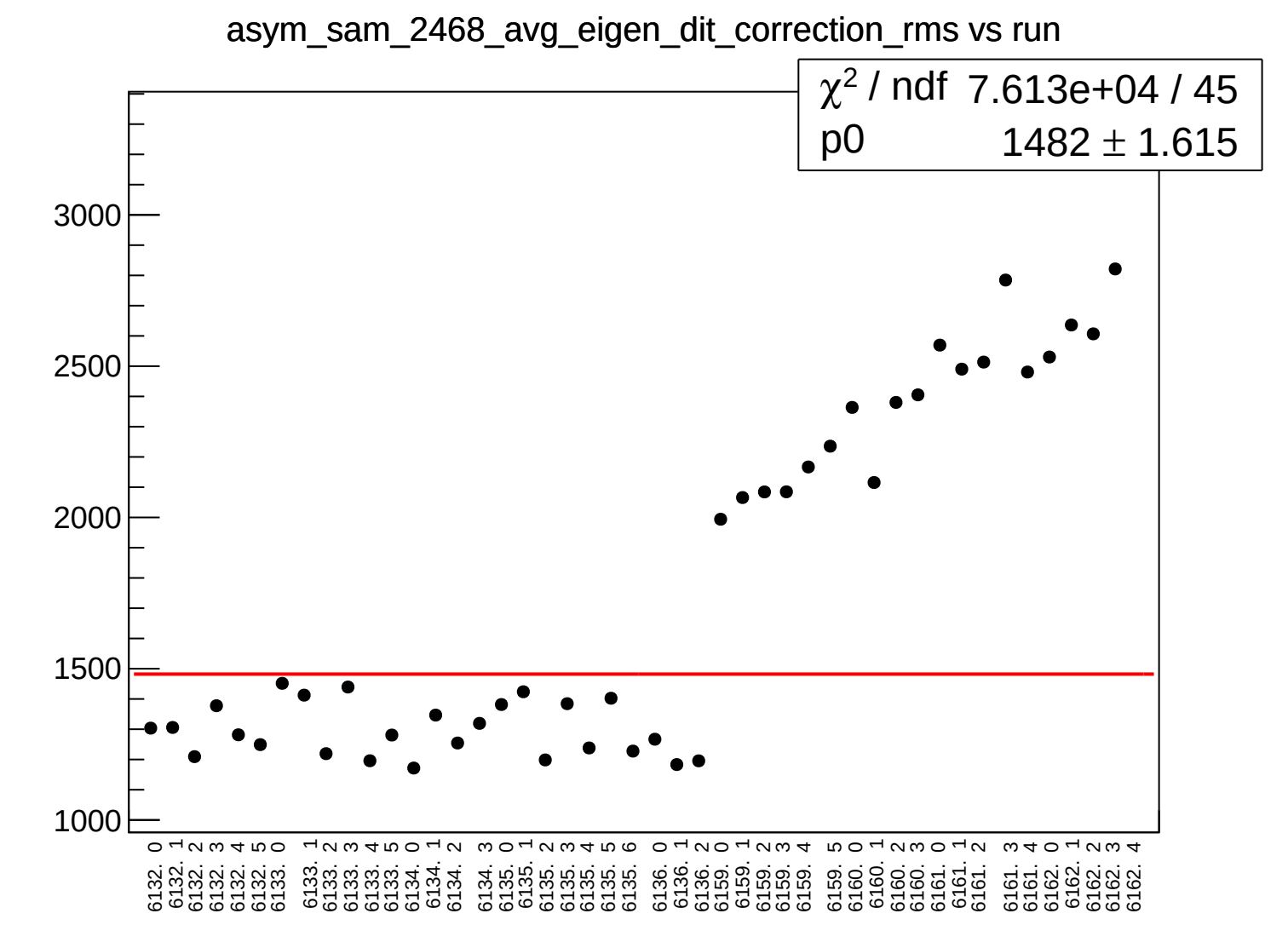

eigen_dit_asym_sam_2468_avg_mean vs run
χ^2 / ndf 66.27 / 45
p0 9.047 ± 152.2
pull
Entries 46
Mean 159.2
Std Dev 0

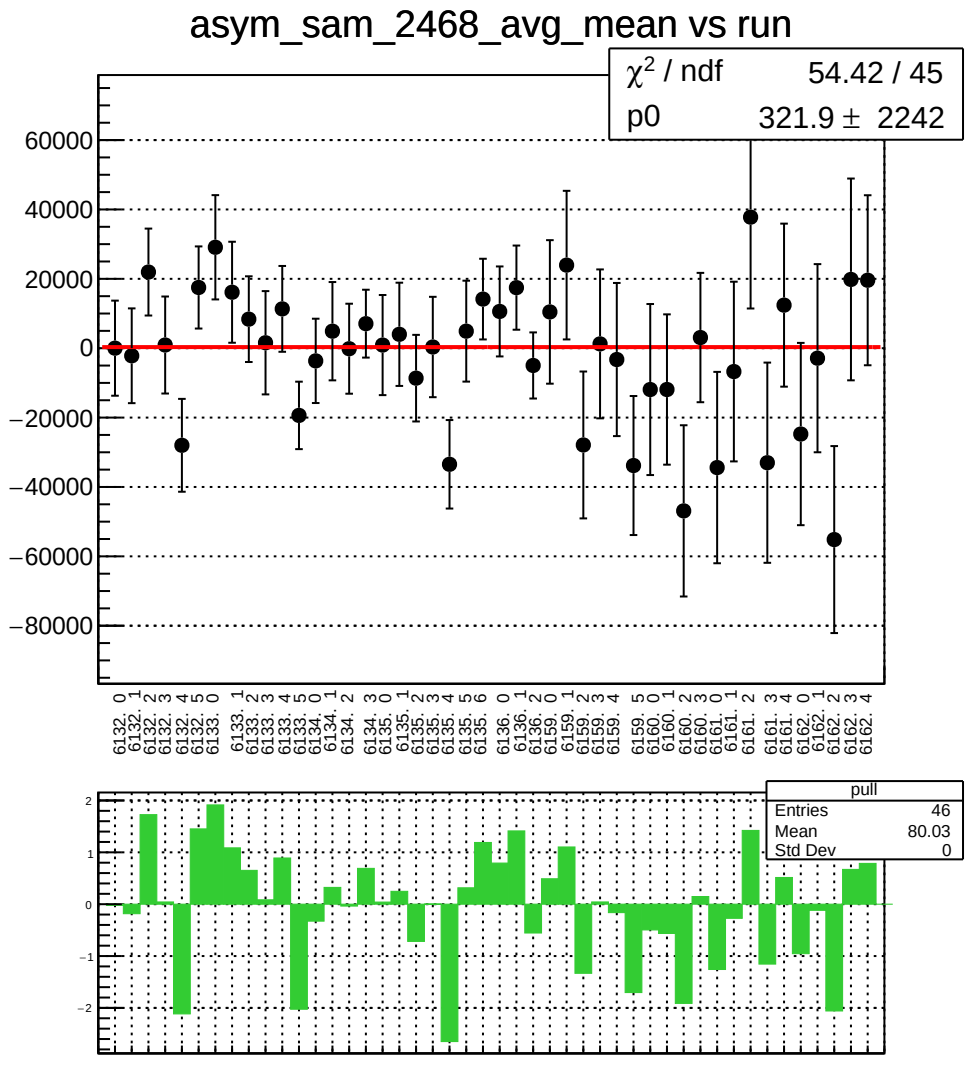

pull1D
Entries 46
Mean 0.02271
Std Dev 1.2

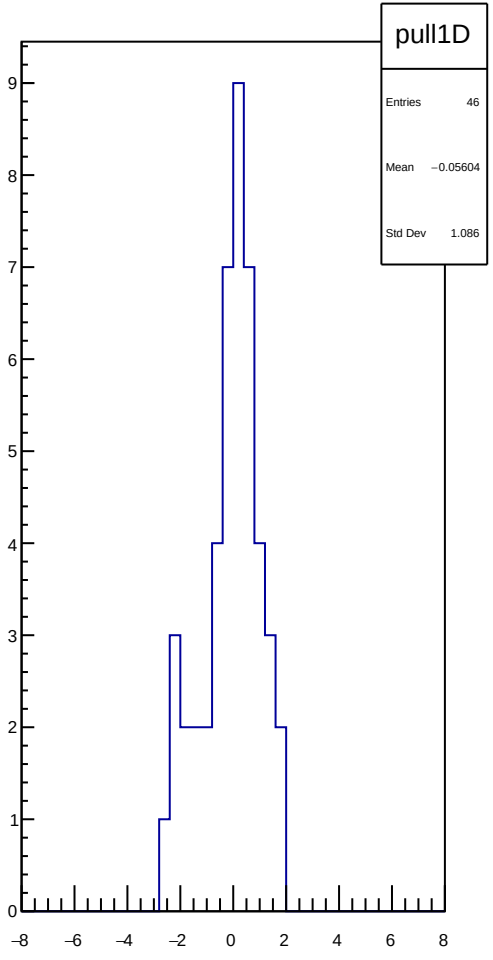

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.14e+04 / 45
p0 102.5 ± 0.1076
130
120
110
100
90
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

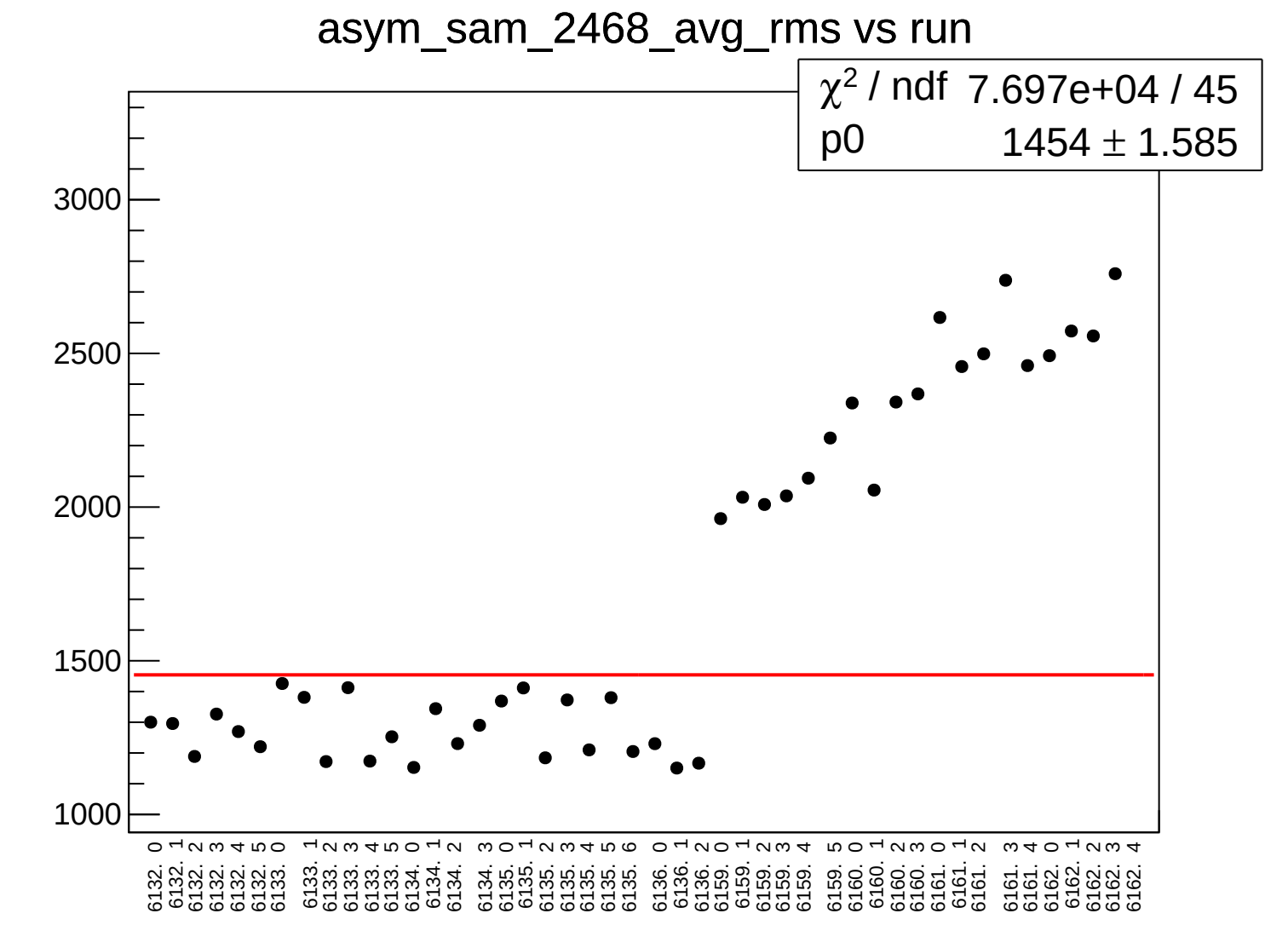

asym_sam_2468_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 53.18 / 45
p0 −290.7 ± 2284
pull
Entries 46
Mean 83.49
Std Dev 0

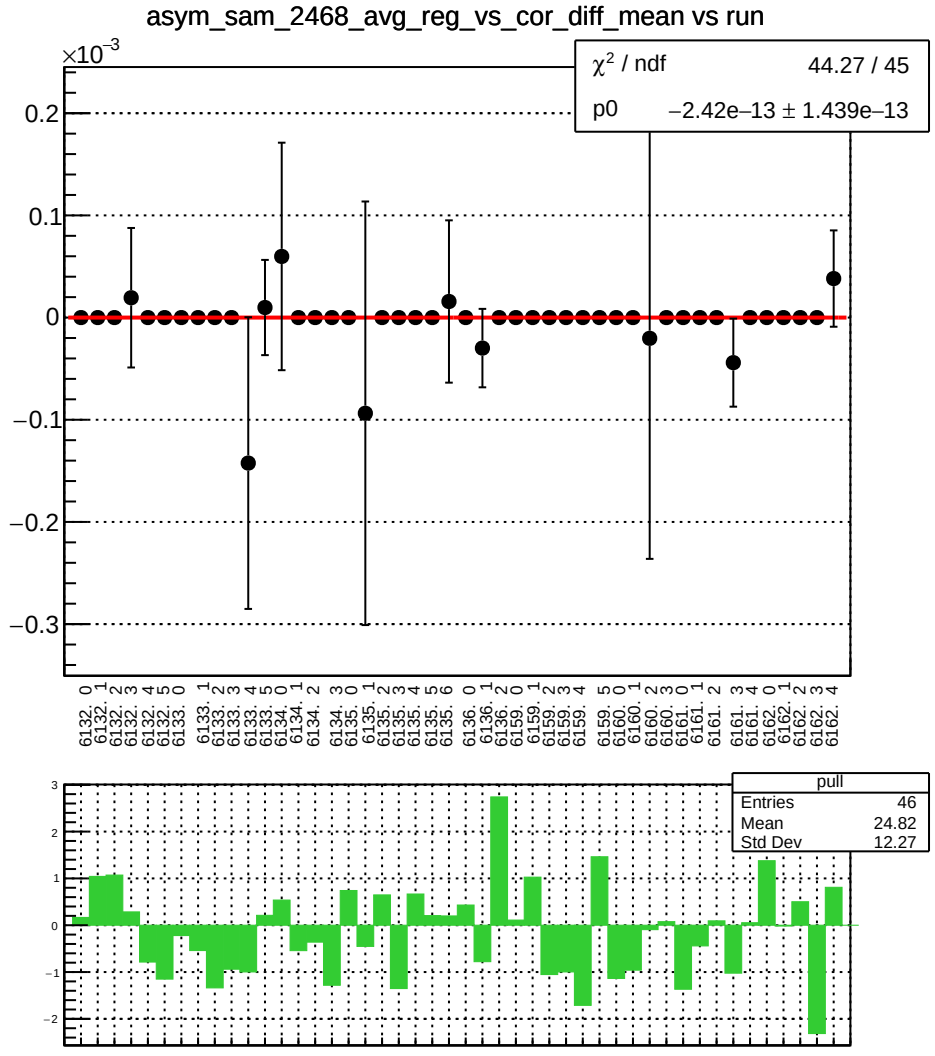

pull1D
Entries 46
Mean 0.05536
Std Dev 1.074

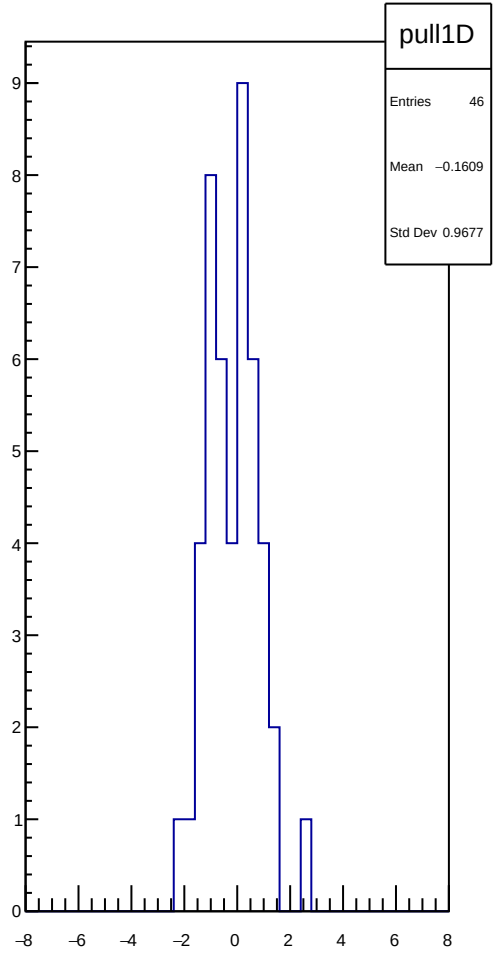

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 7.613e+04 / 45
p0 1482 ± 1.615
3000
2500
2000
1500
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

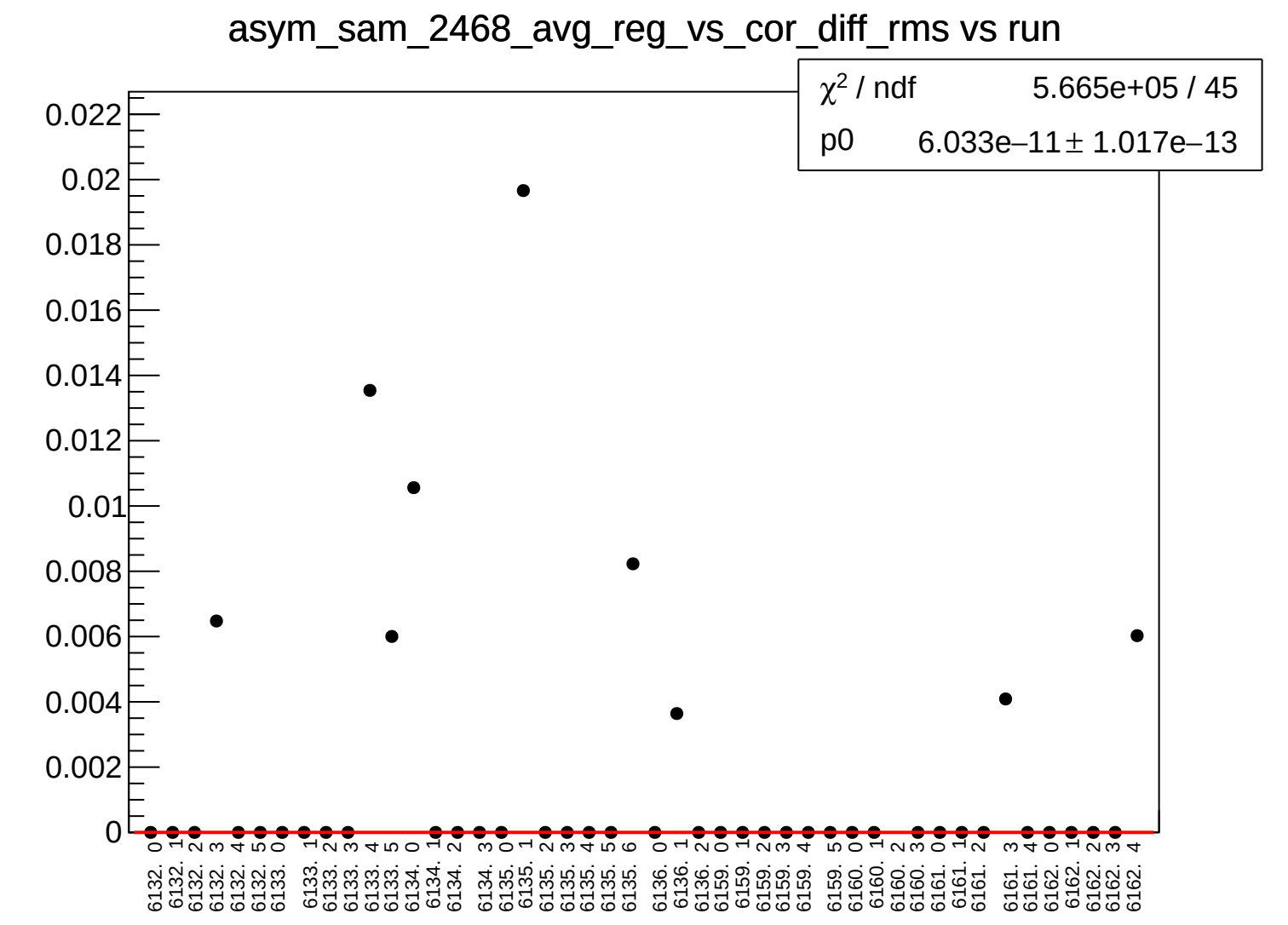

asym_sam_2468_avg_mean vs run
χ² / ndf 54.42 / 45
p0 321.9 ± 2242
60000
40000
20000
0
−20000
−40000
−60000
−80000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 80.03
Std Dev 0
2
1
0
−1
−2

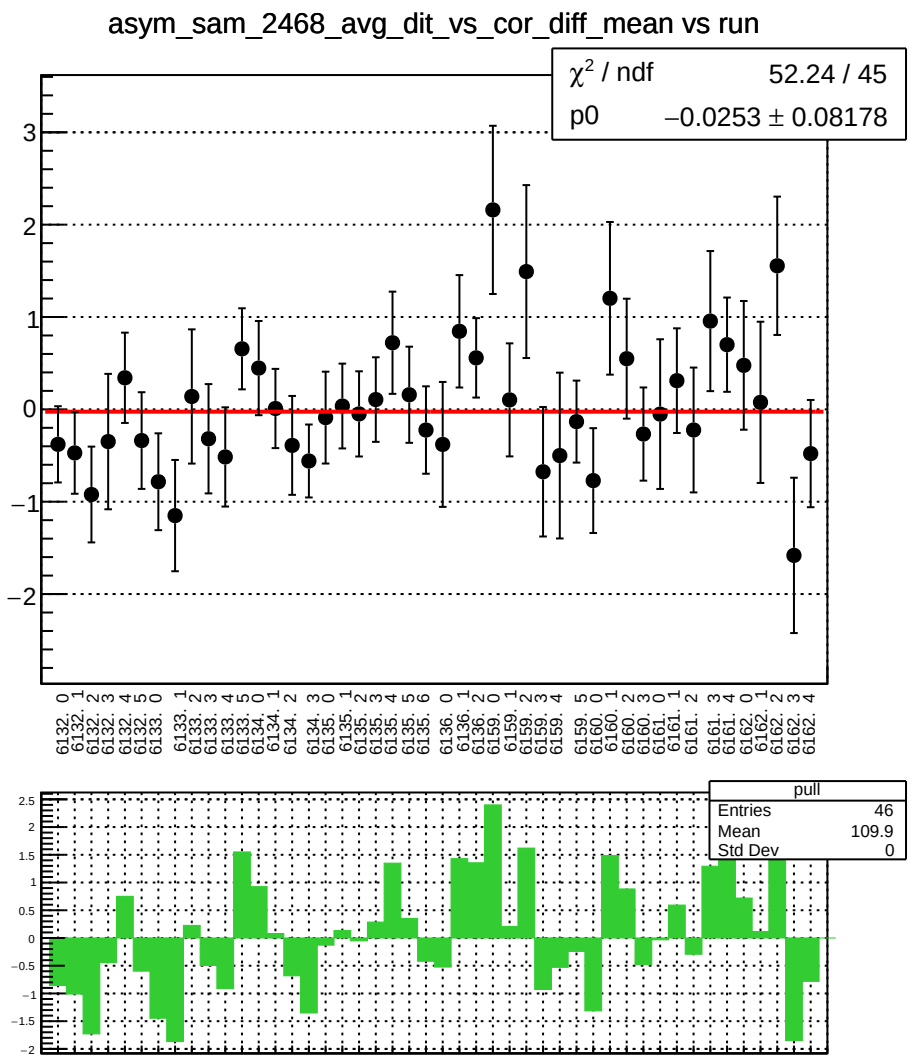

pull1D
Entries 46
Mean −0.05604
Std Dev 1.086
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

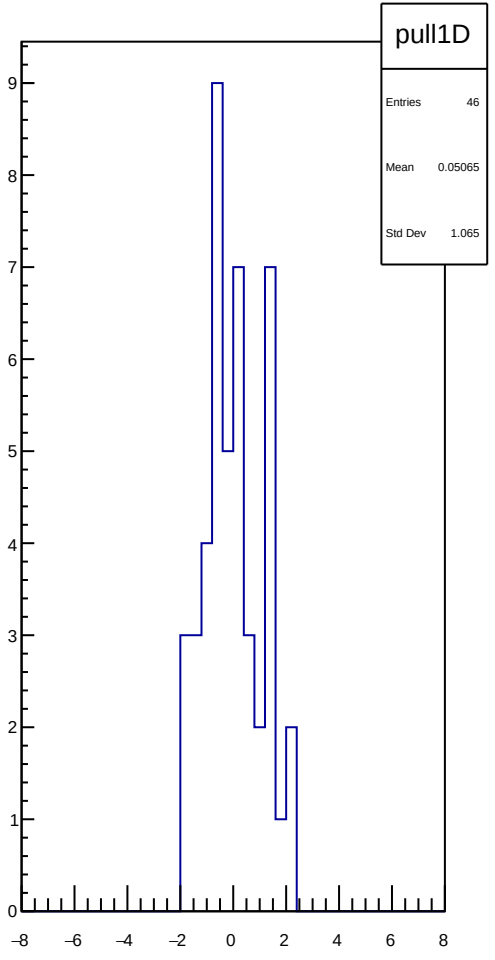

asym_sam_2468_avg_rms vs run
χ² / ndf 7.697e+04 / 45
p0 1454 ± 1.585
3000
2500
2000
1500
1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

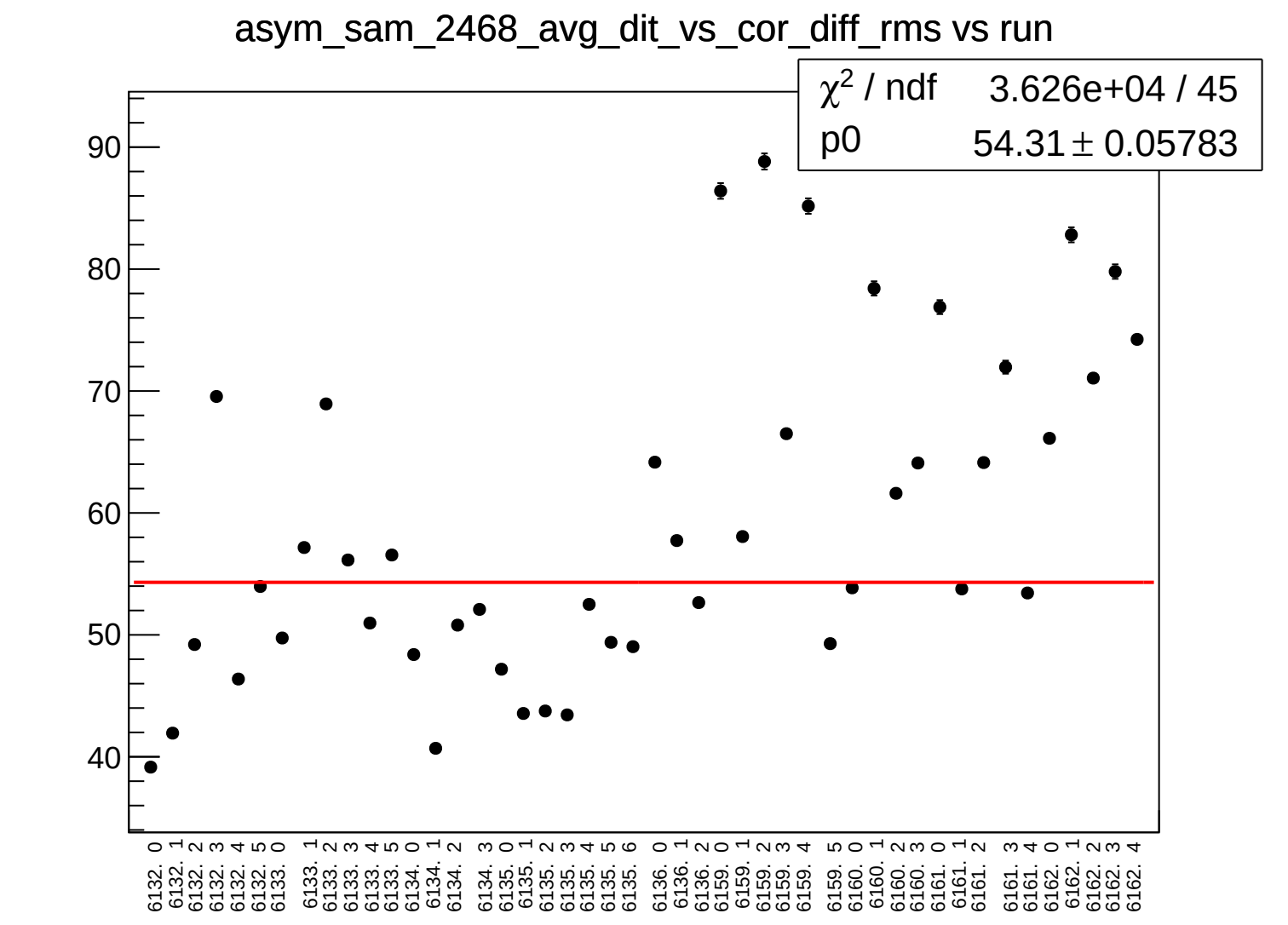

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 44.27 / 45
p0 −2.42e−13 ± 1.439e−13
pull
Entries 46
Mean 24.82
Std Dev 12.27


pull1D
Entries 46
Mean −0.1609
Std Dev 0.9677


asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.665e+05 / 45
p0 6.033e−11 ± 1.017e−13
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 52.24 / 45
p0 −0.0253 ± 0.08178
pull
Entries 46
Mean 109.9
Std Dev 0


pull1D
Entries 46
Mean 0.05065
Std Dev 1.065


asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.626e+04 / 45
p0 54.31 ± 0.05783
90
80
70
60
50
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
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
6159. 5
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6160. 1
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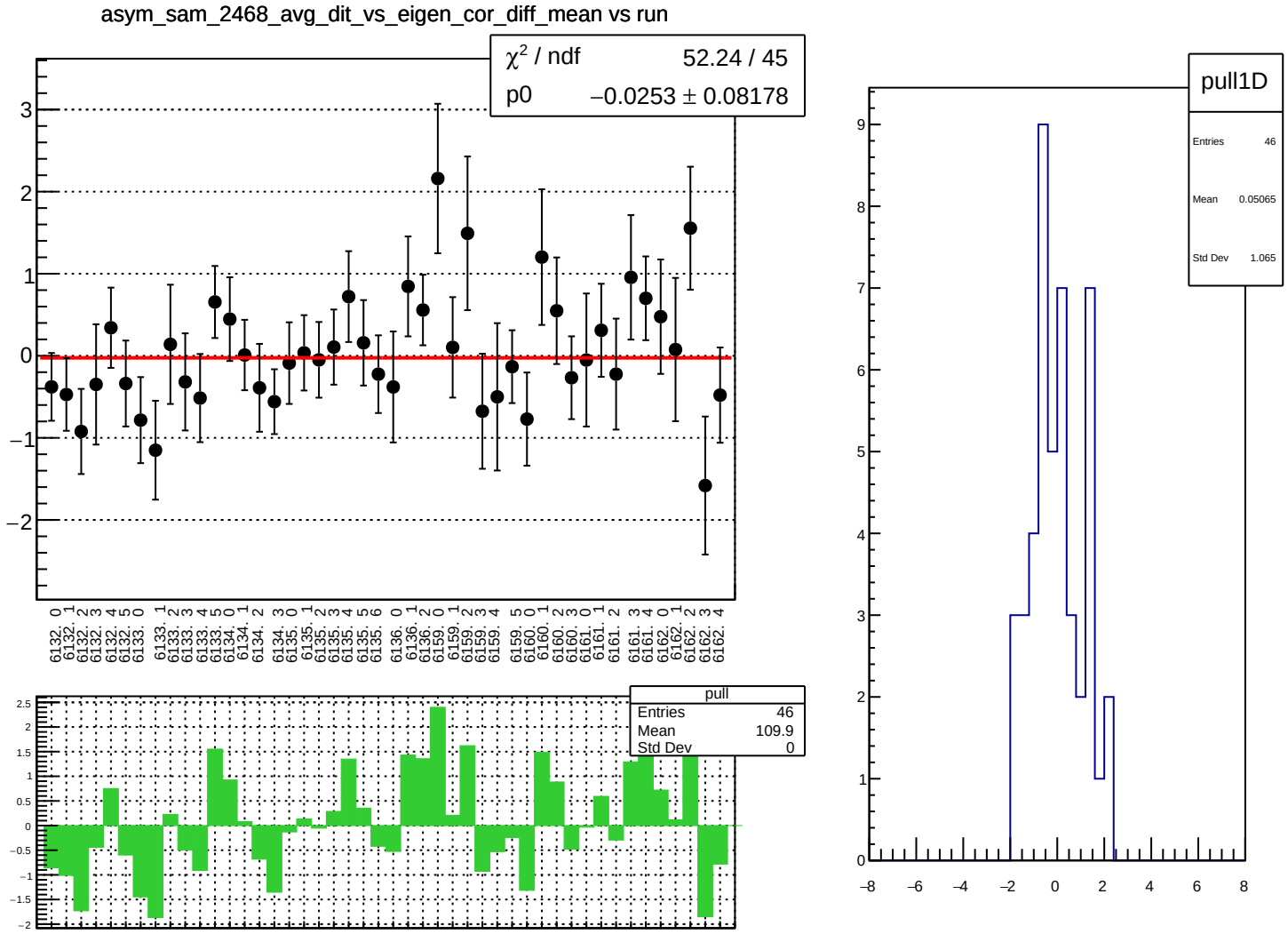
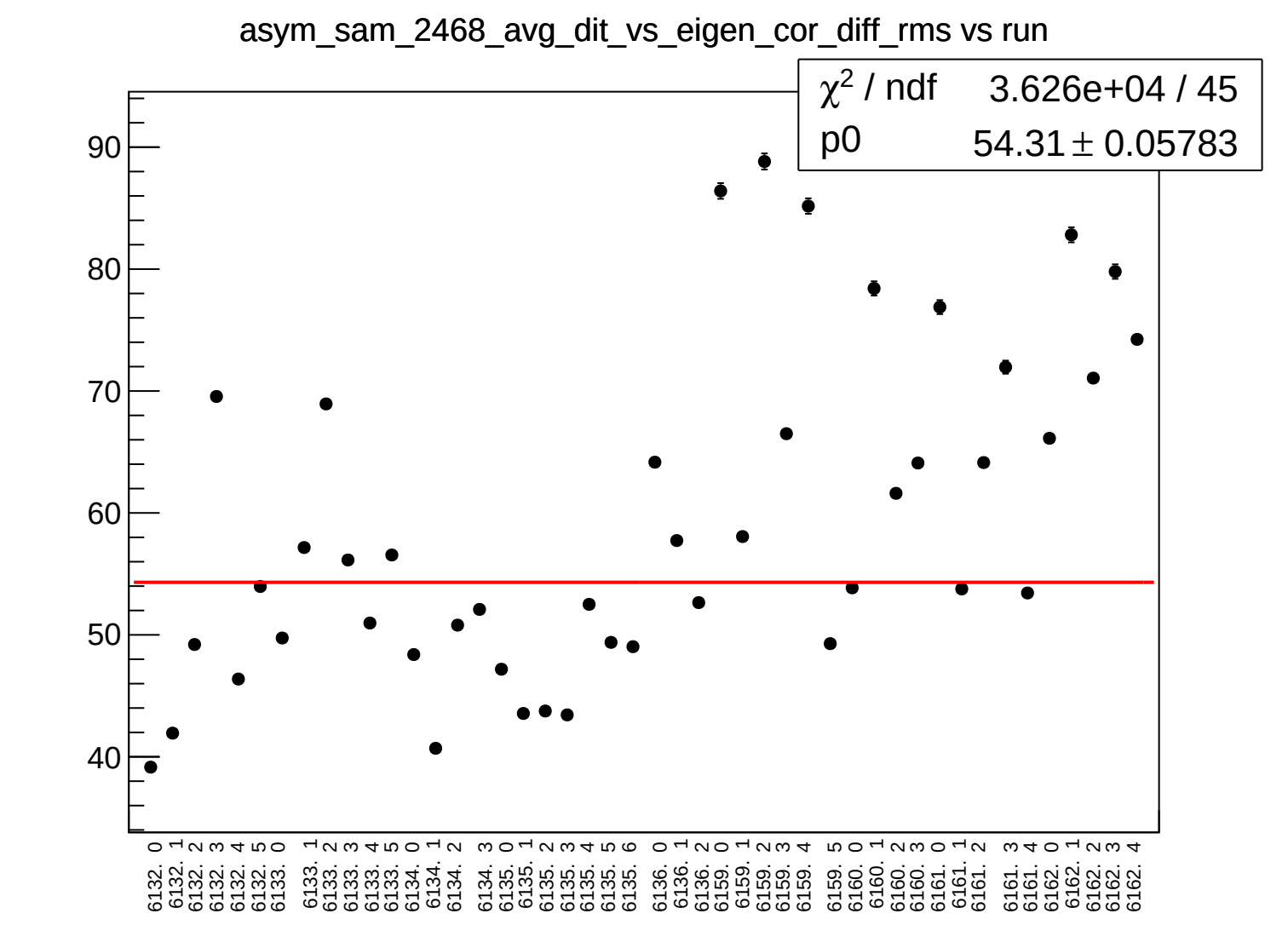
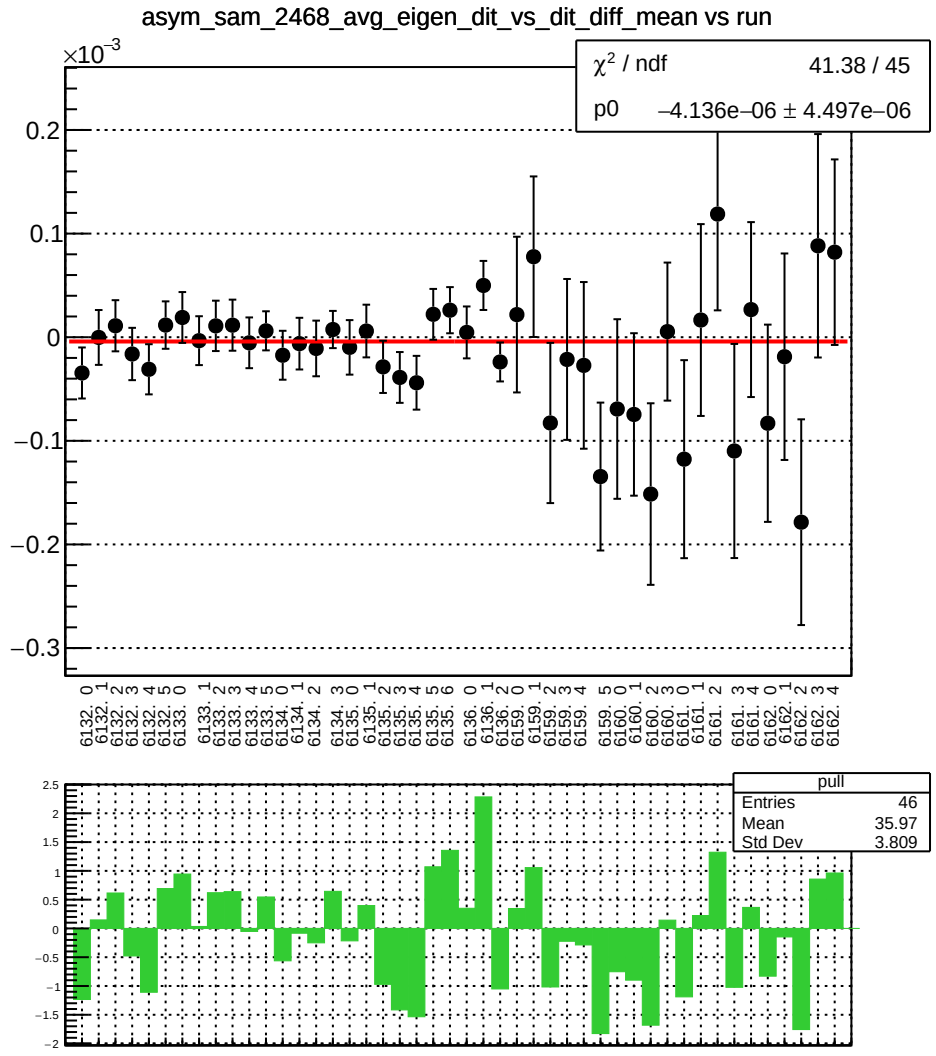
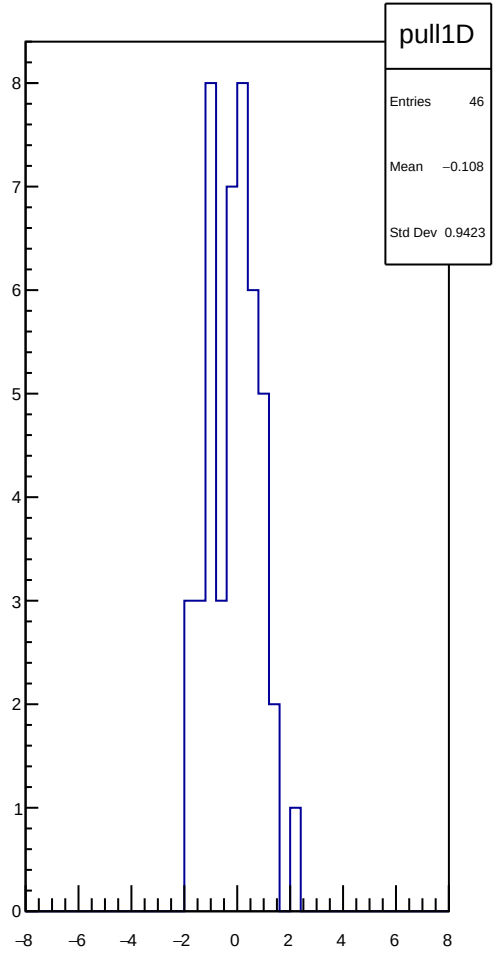
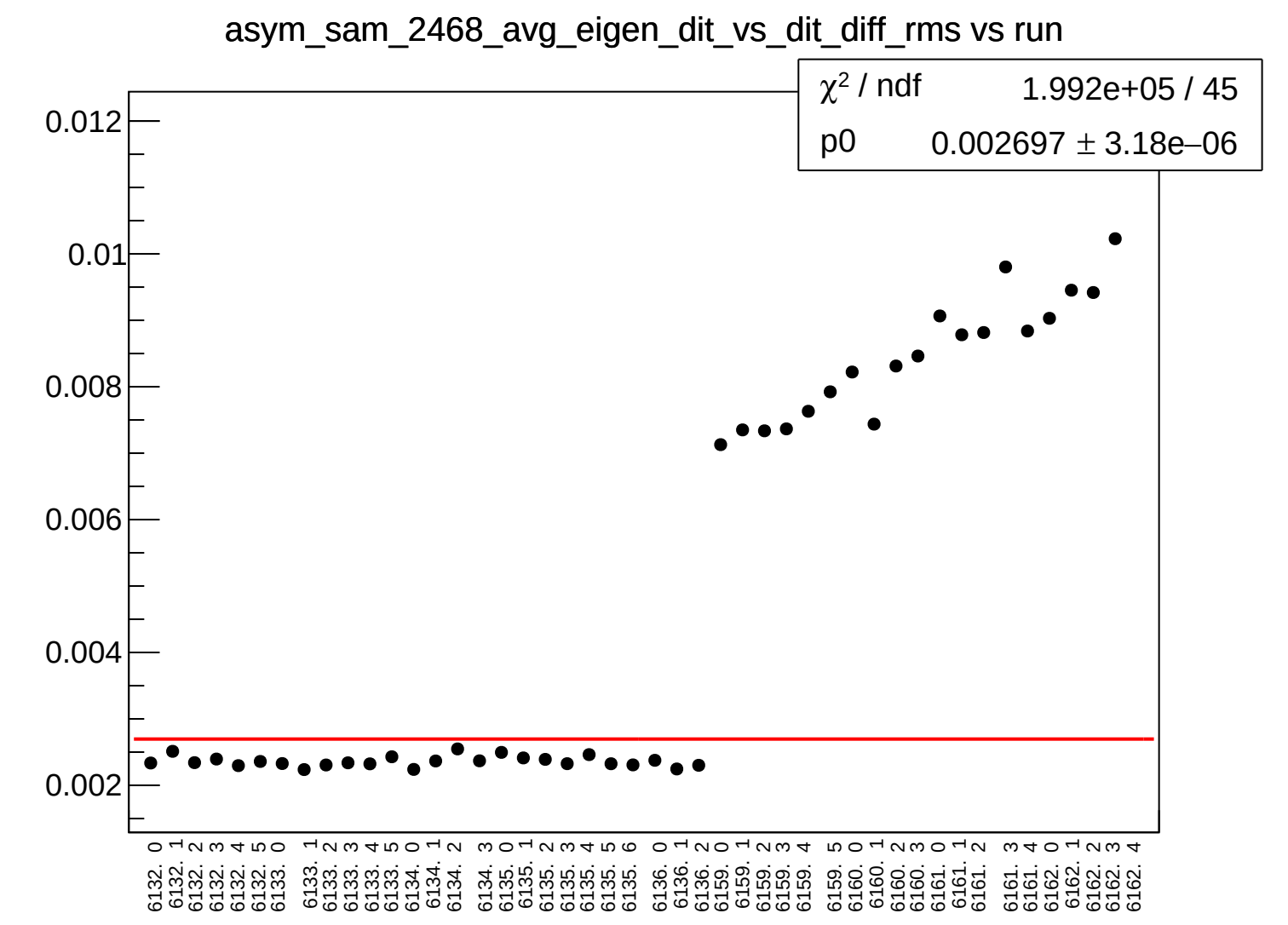
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

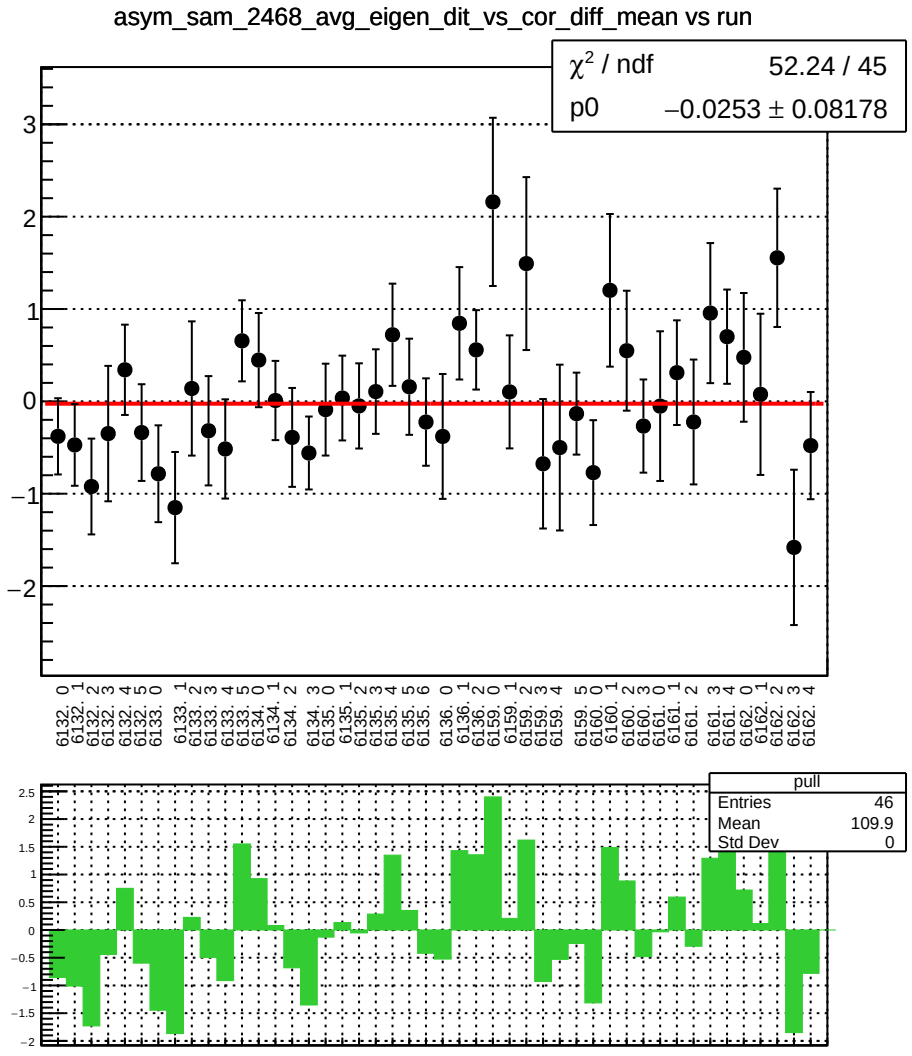

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.24 / 45
p0 −0.0253 ± 0.08178
pull
Entries 46
Mean 109.9
Std Dev 0
pull1D
Entries 46
Mean 0.05065
Std Dev 1.065

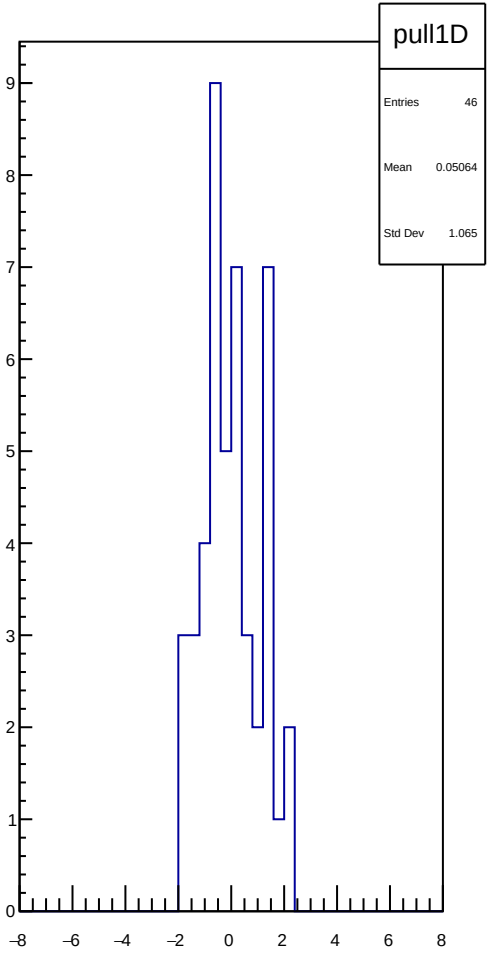

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.626e+04 / 45
p0 54.31 ± 0.05783
90
80
70
60
50
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

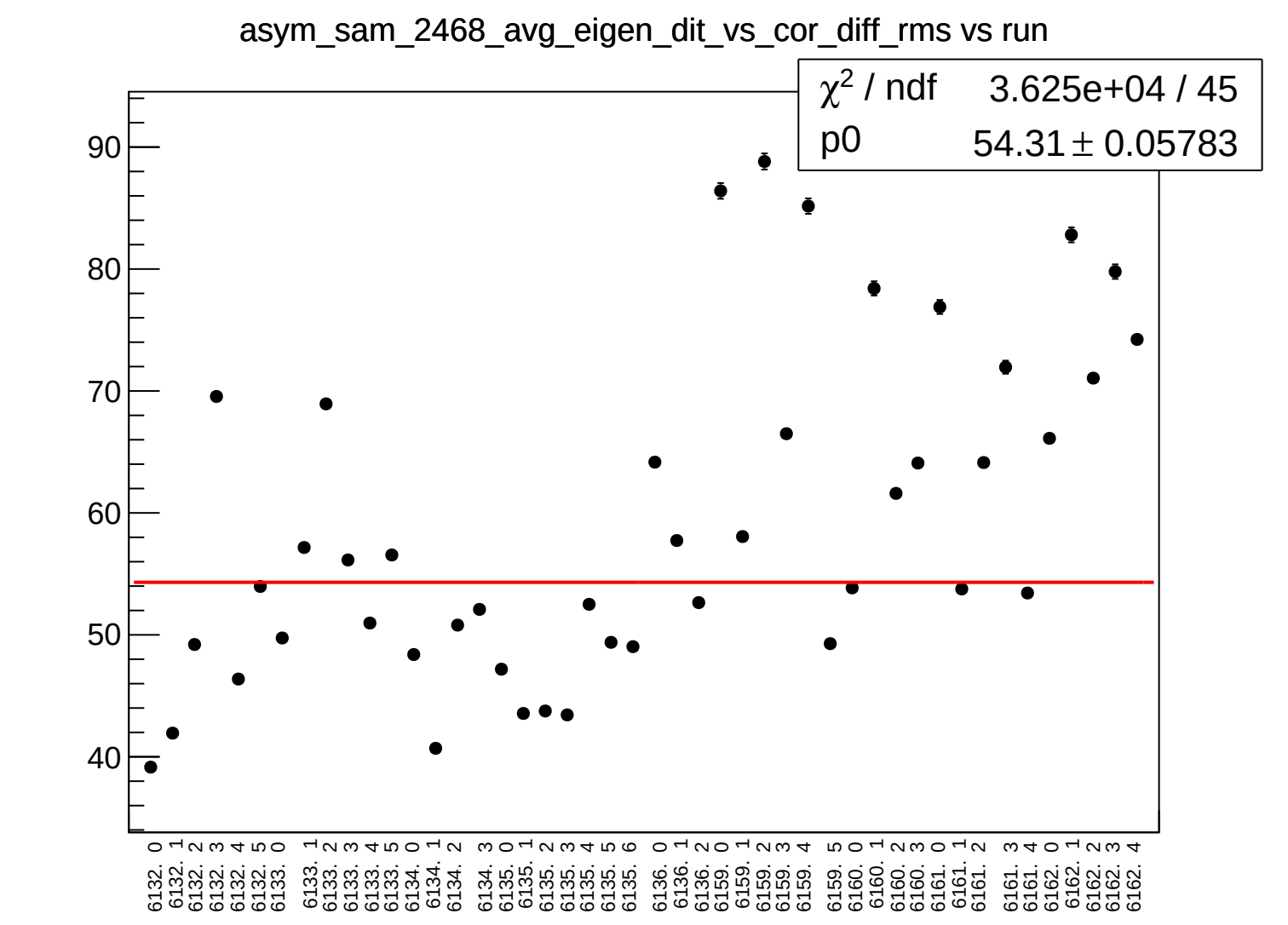

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 41.38 / 45
p0 −4.136e−06 ± 4.497e−06
pull
Entries 46
Mean 35.97
Std Dev 3.809

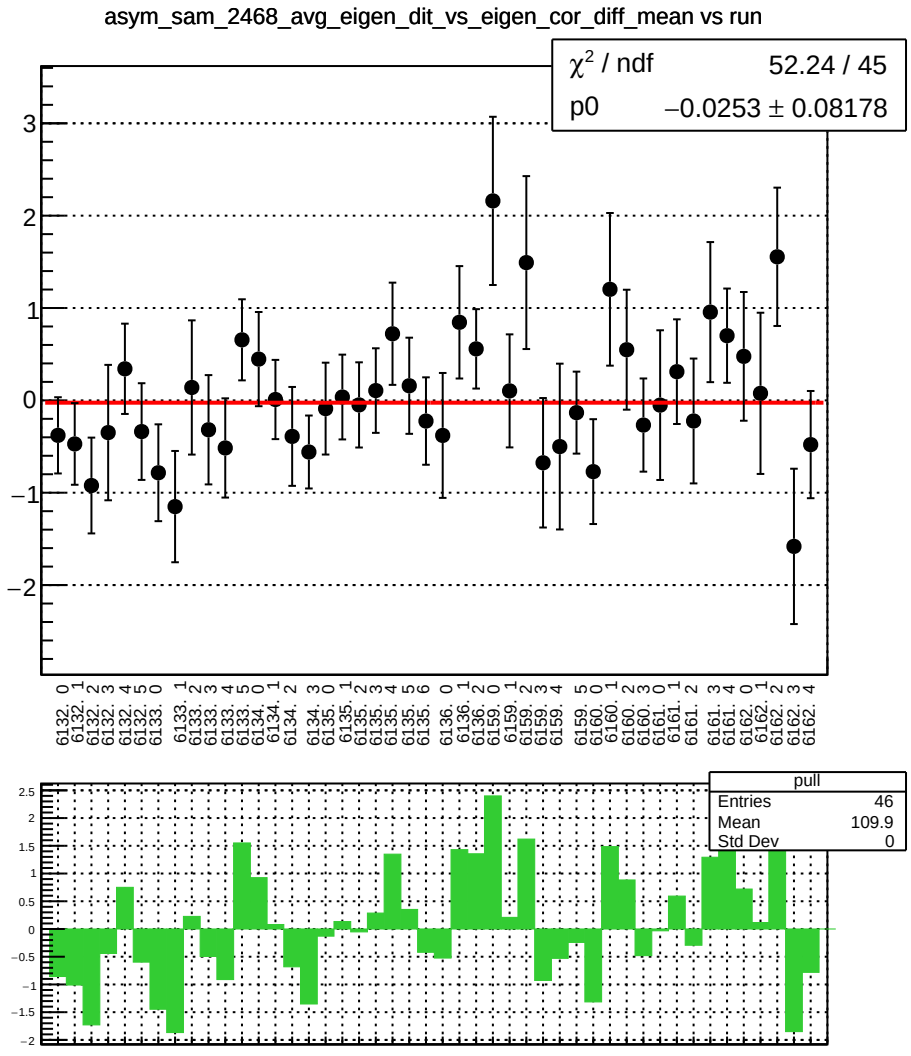

pull1D
Entries 46
Mean −0.108
Std Dev 0.9423

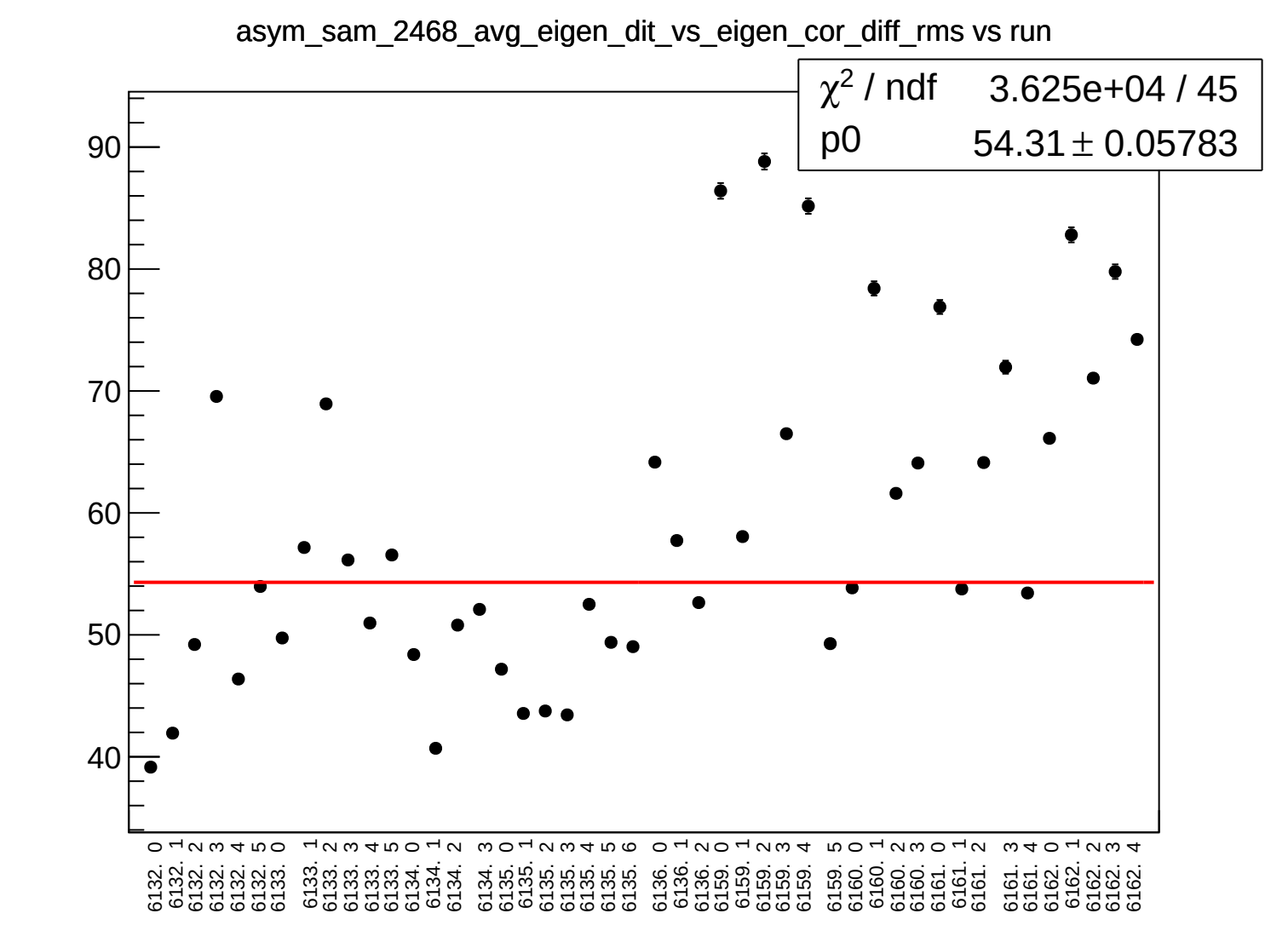

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.992e+05 / 45
p0 0.002697 ± 3.18e–06
0.012
0.01
0.008
0.006
0.004
0.002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

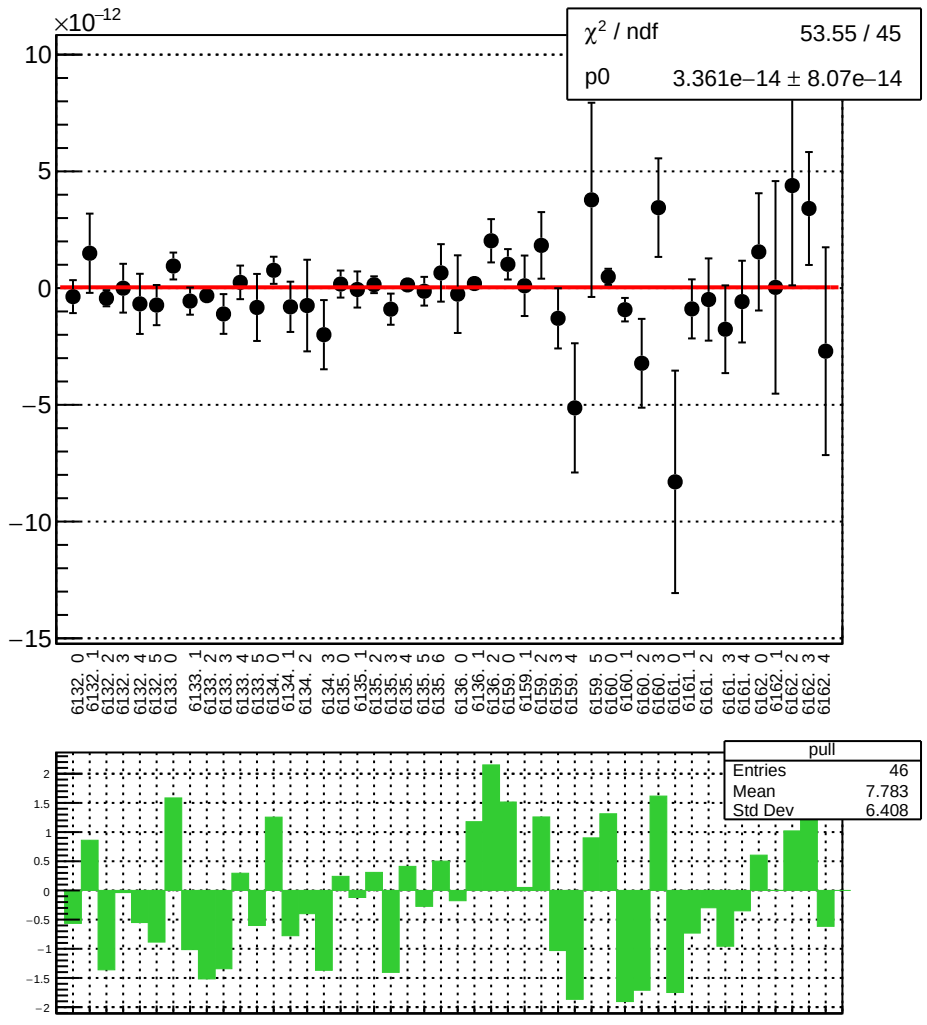

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 52.24 / 45
p0 −0.0253 ± 0.08178
pull
Entries 46
Mean 109.9
Std Dev 0

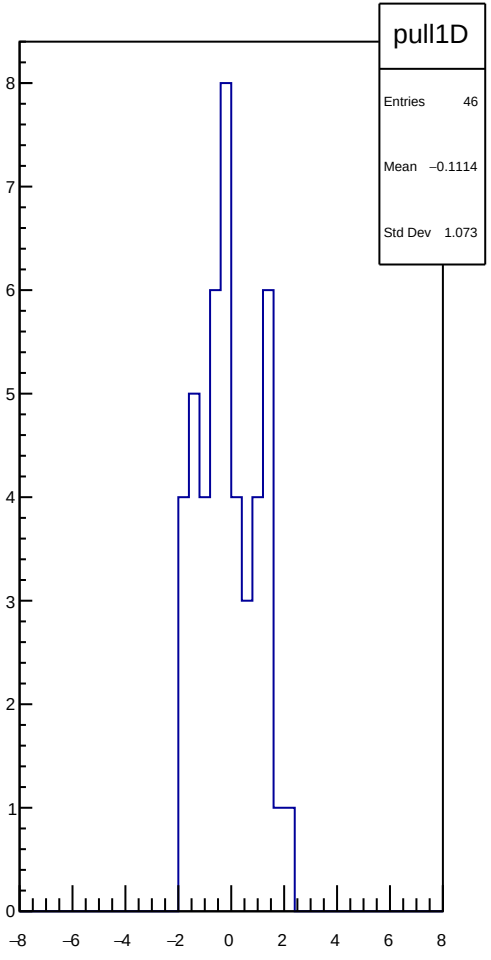

pull1D
Entries 46
Mean 0.05064
Std Dev 1.065

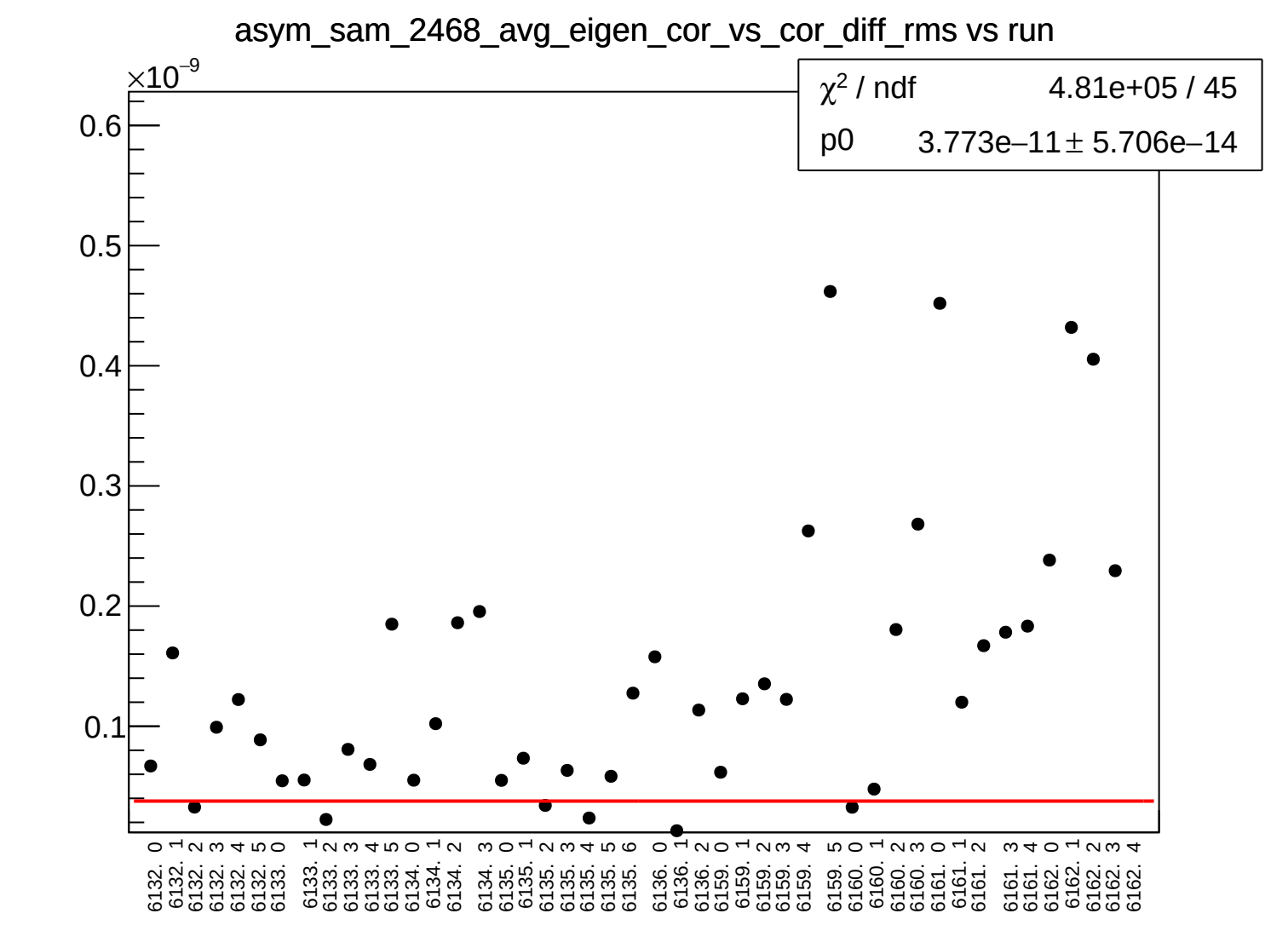

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.625e+04 / 45
p0 54.31 ± 0.05783
90
80
70
60
50
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

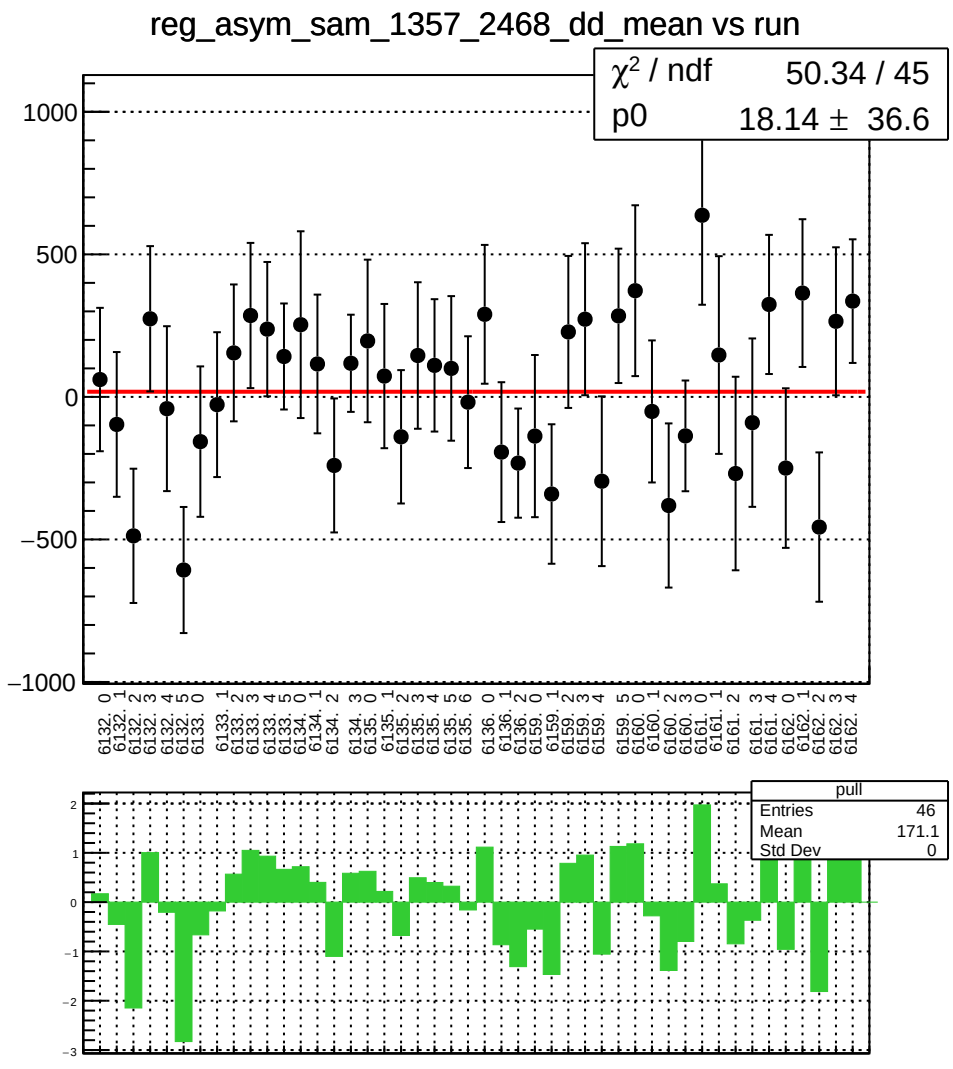

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.24 / 45
p0 −0.0253 ± 0.08178
pull
Entries 46
Mean 109.9
Std Dev 0
pull1D
Entries 46
Mean 0.05064
Std Dev 1.065

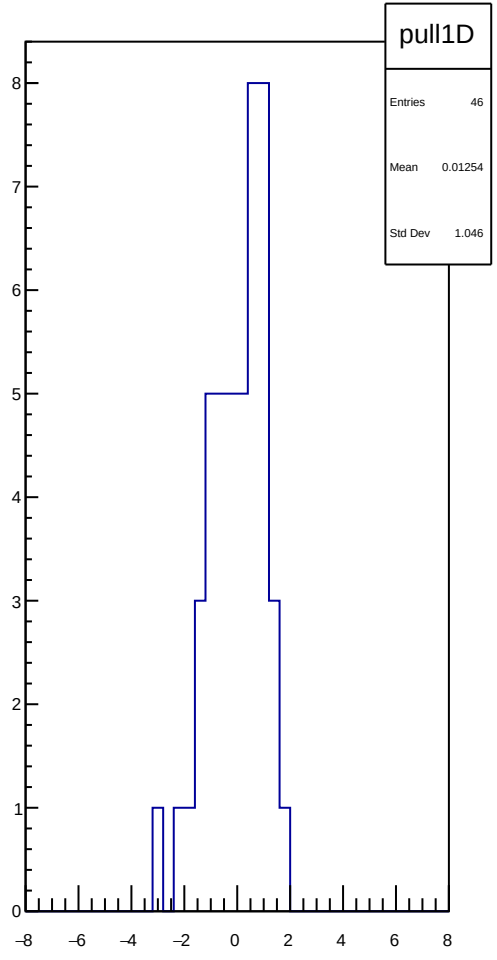

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.625e+04 / 45
p0 54.31 ± 0.05783
90
80
70
60
50
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

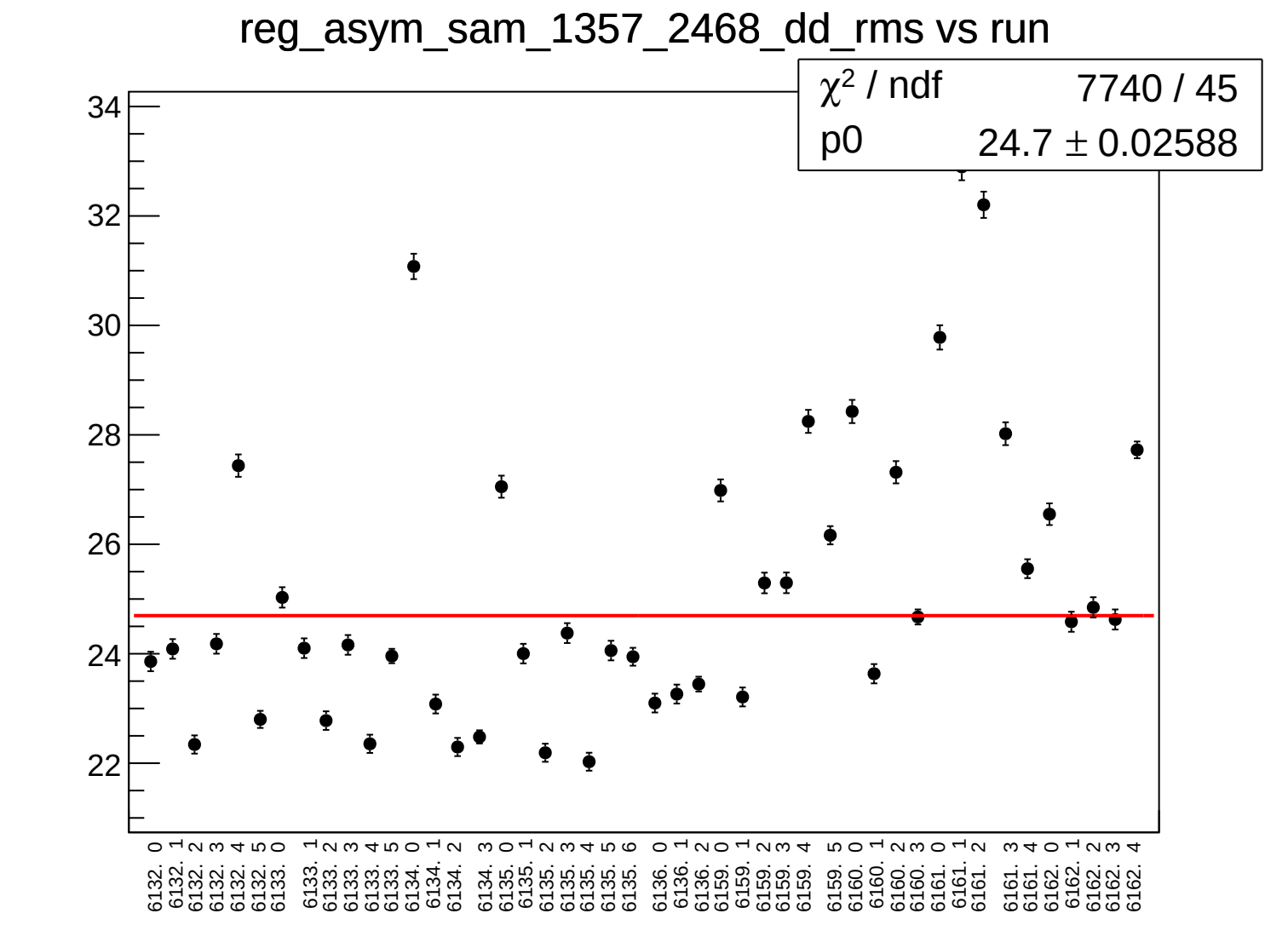

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 53.55 / 45
p0 3.361e−14 ± 8.07e−14
pull
Entries 46
Mean 7.783
Std Dev 6.408

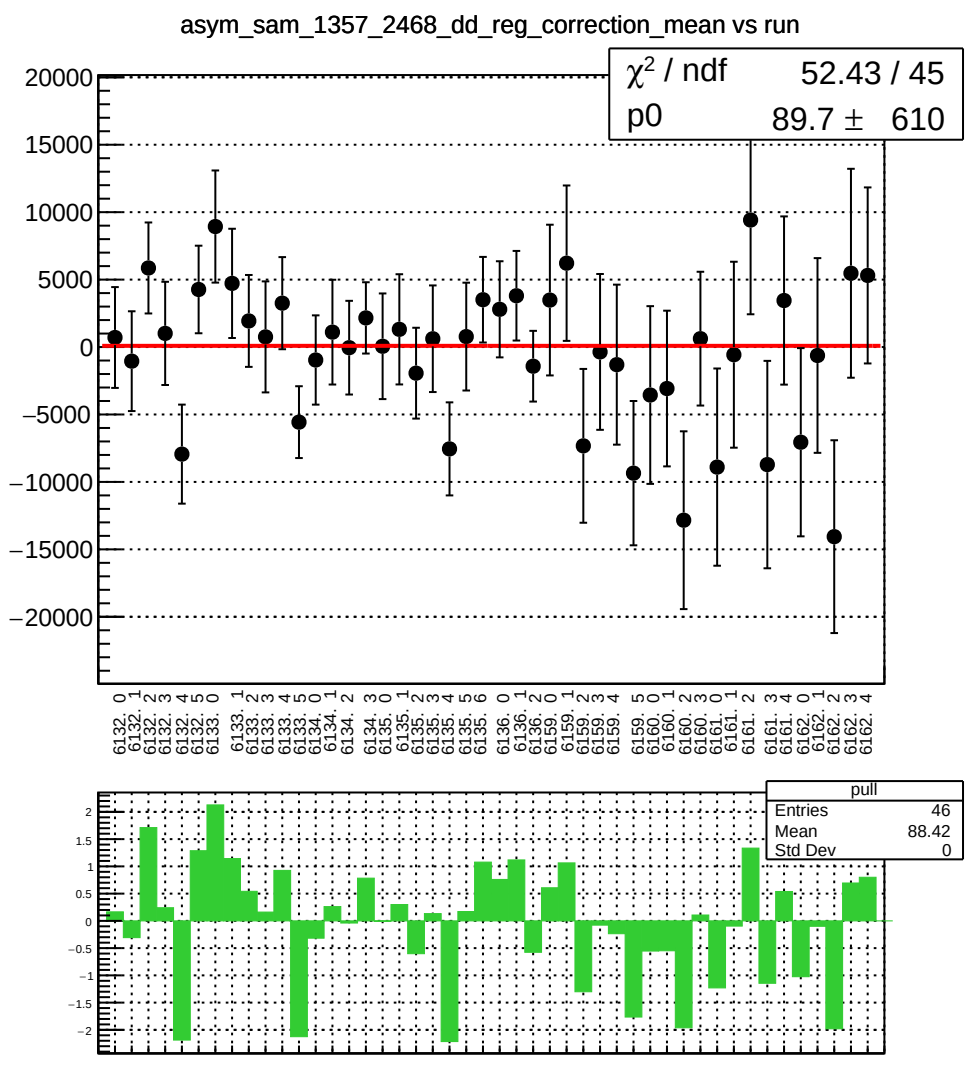

pull1D
Entries 46
Mean −0.1114
Std Dev 1.073

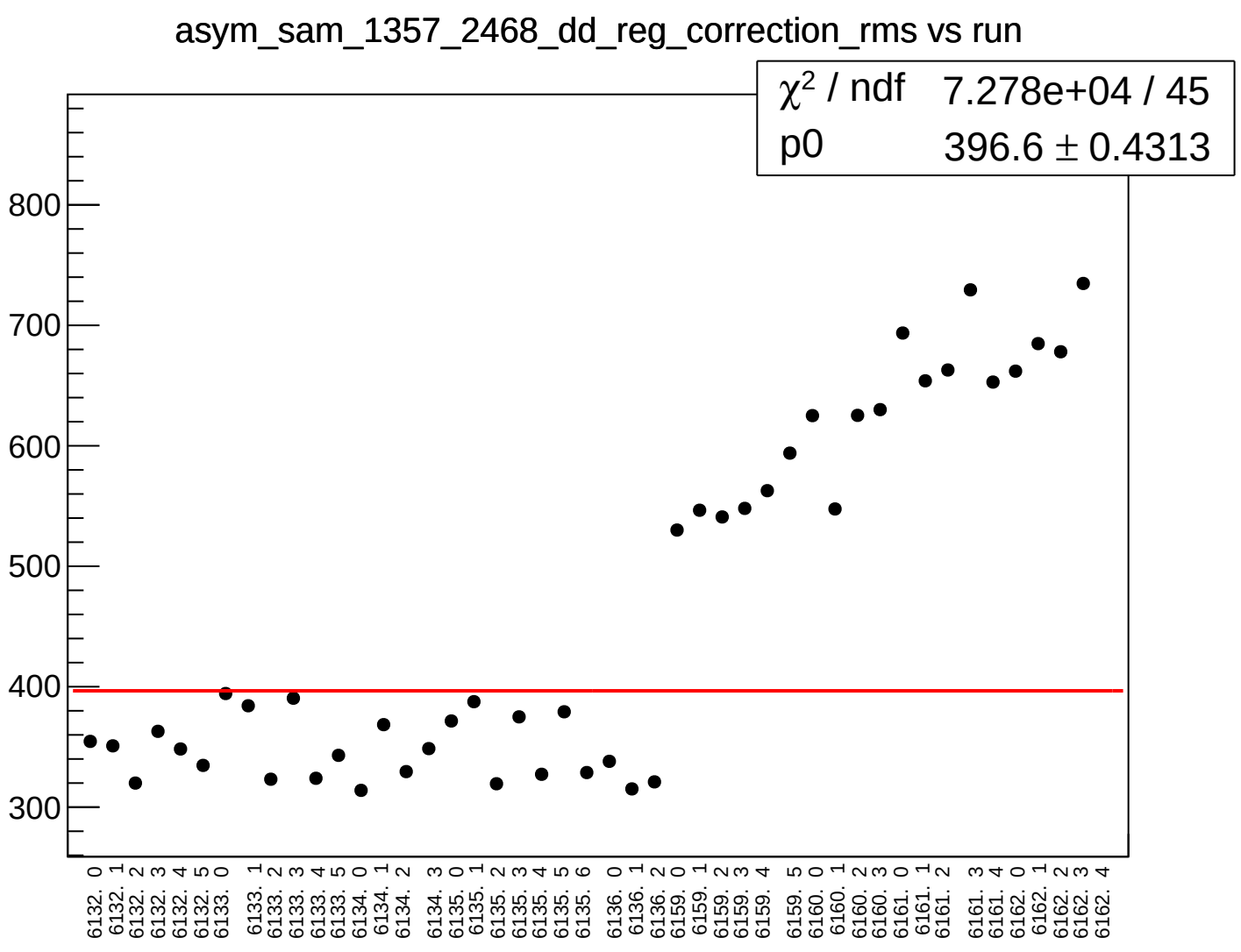

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.81e+05 / 45
p0 3.773e−11 ± 5.706e−14
0.6
0.5
0.4
0.3
0.2
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

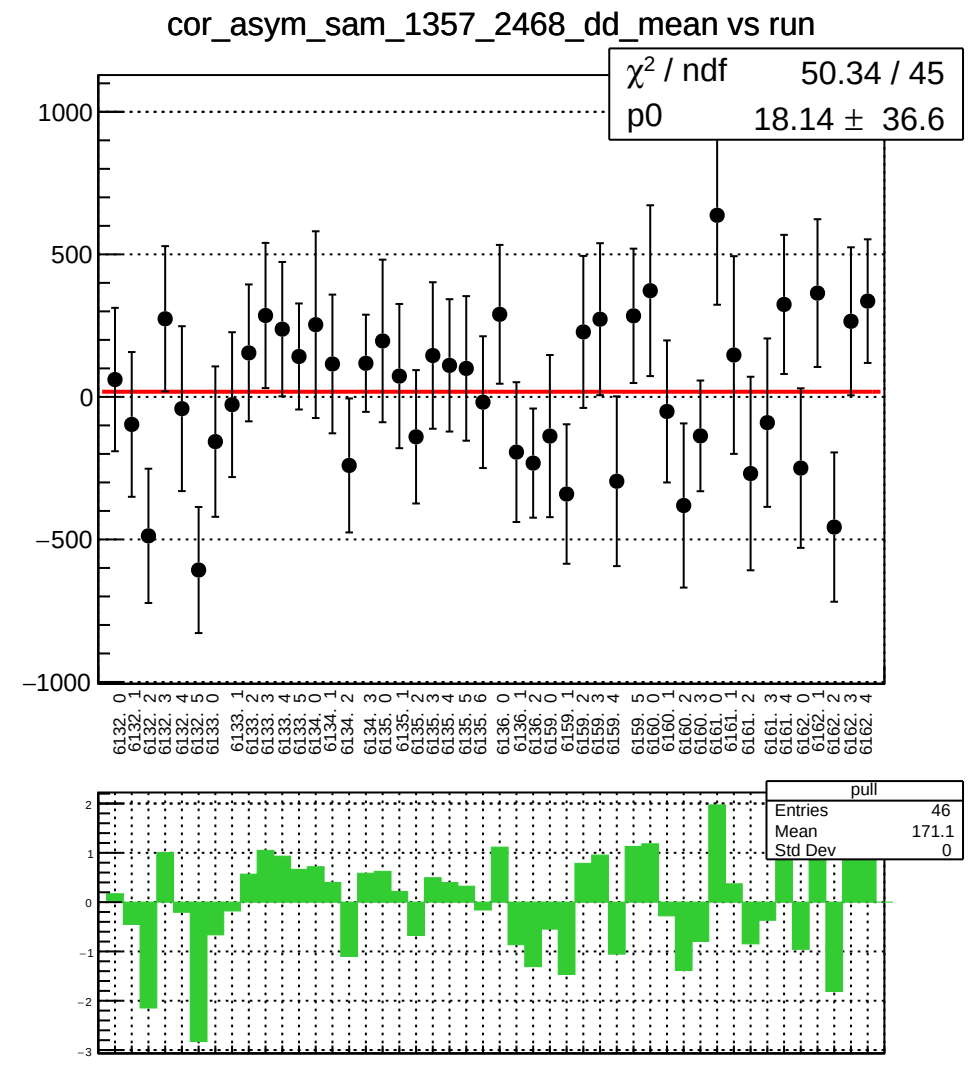

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 50.34 / 45
p0 18.14 ± 36.6
1000
500
0
−500
−1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 171.1
Std Dev 0
2
1
0
−1
−2
−3

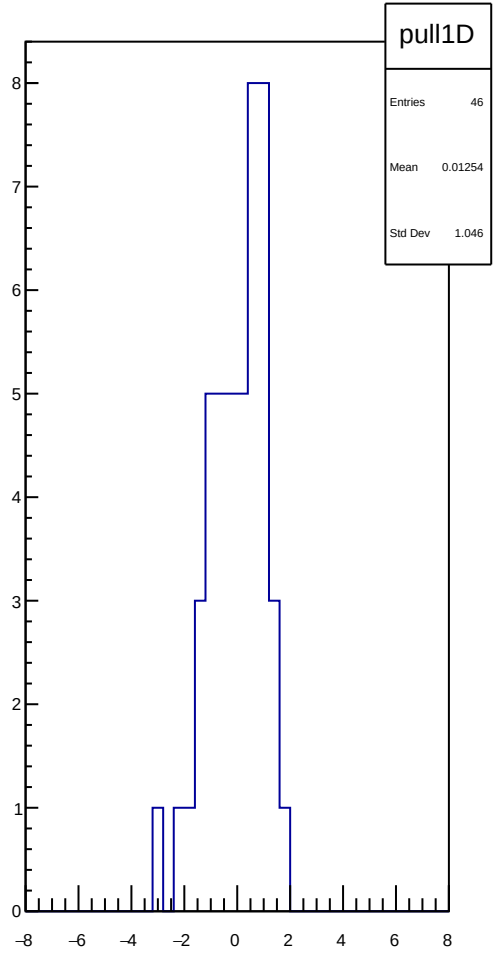

pull1D
Entries 46
Mean 0.01254
Std Dev 1.046
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

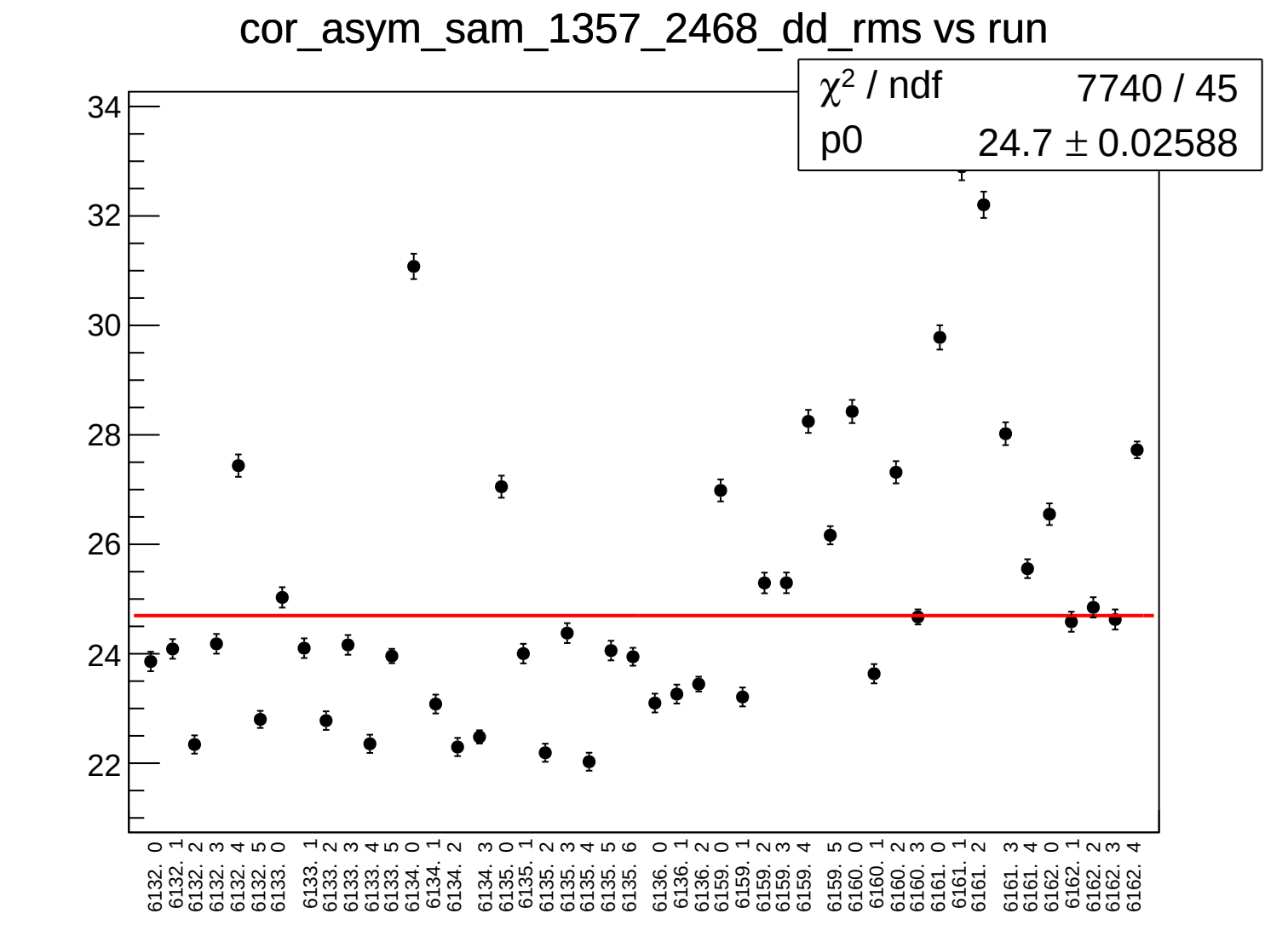

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 7740 / 45
p0 24.7 ± 0.02588
34
32
30
28
26
24
22
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

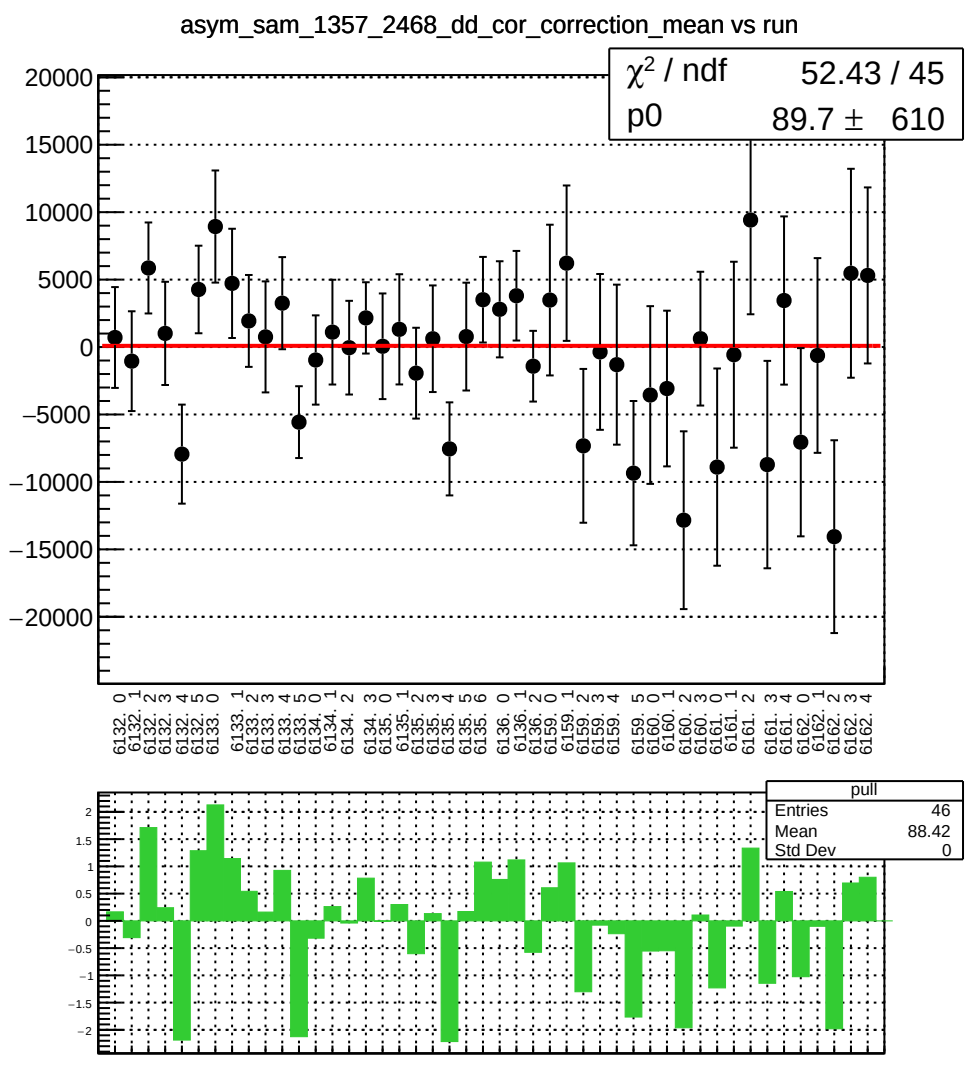

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 52.43 / 45
p0 89.7 ± 610
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 88.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.05074
Std Dev 1.066
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

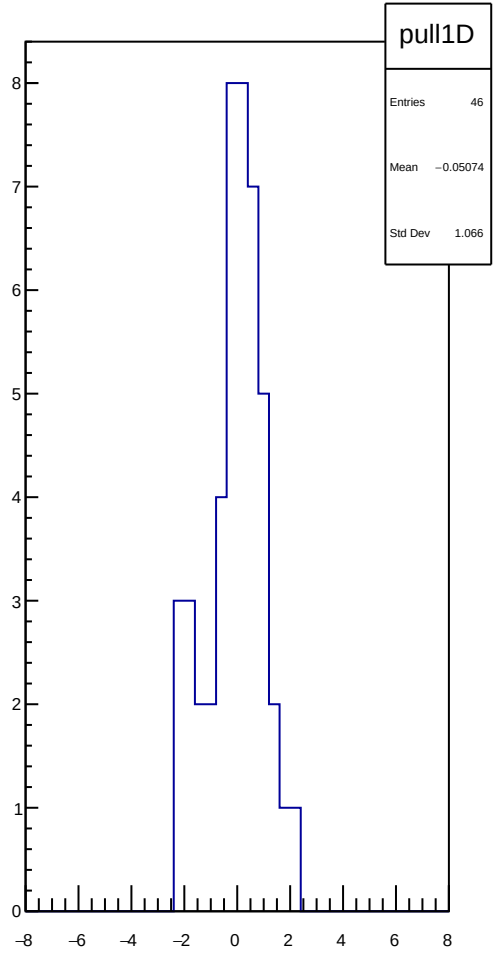

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 7.278e+04 / 45
p0 396.6 ± 0.4313
800
700
600
500
400
300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

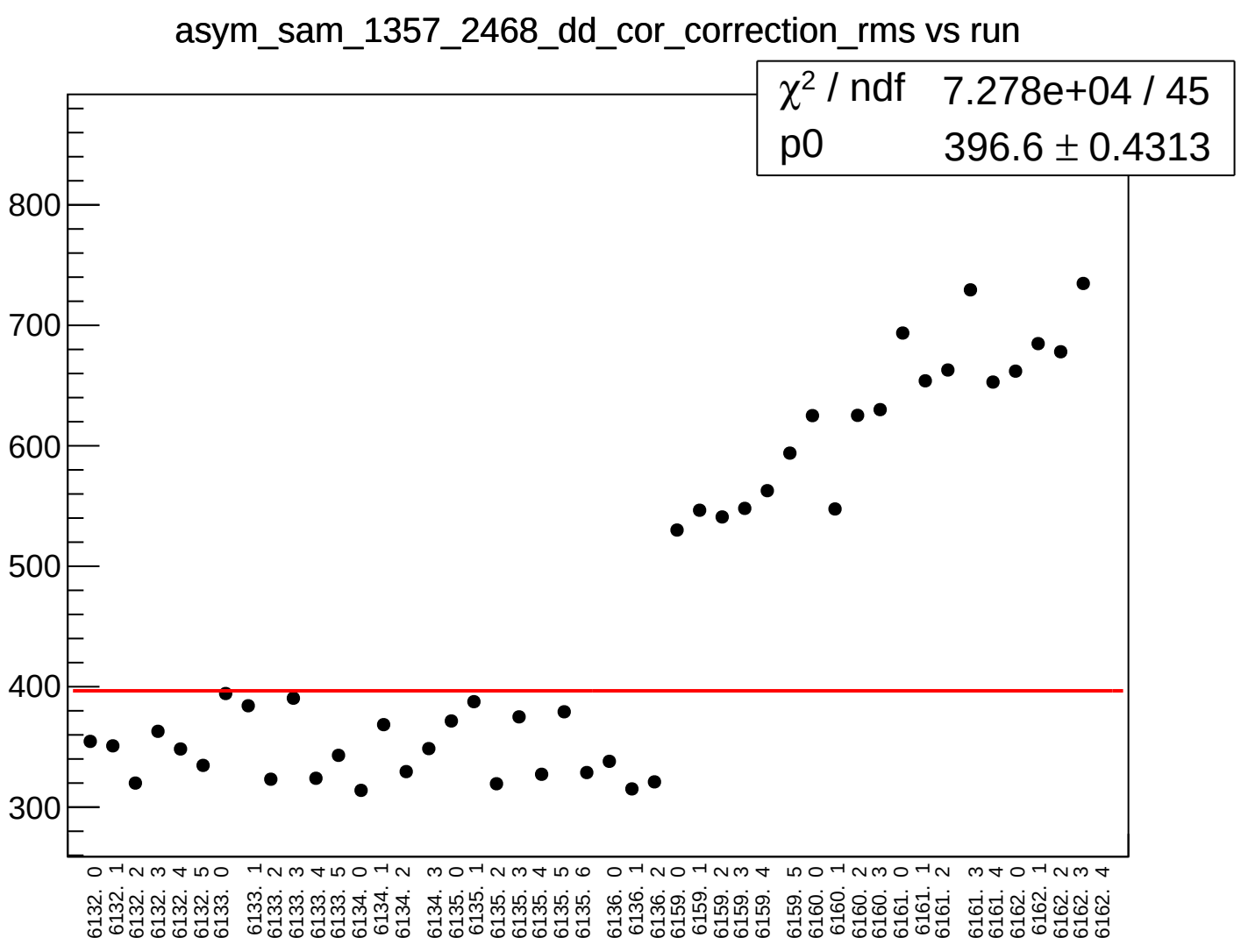

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 50.34 / 45
p0 18.14 ± 36.6
1000
500
0
−500
−1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 171.1
Std Dev 0
2
1
0
−1
−2
−3

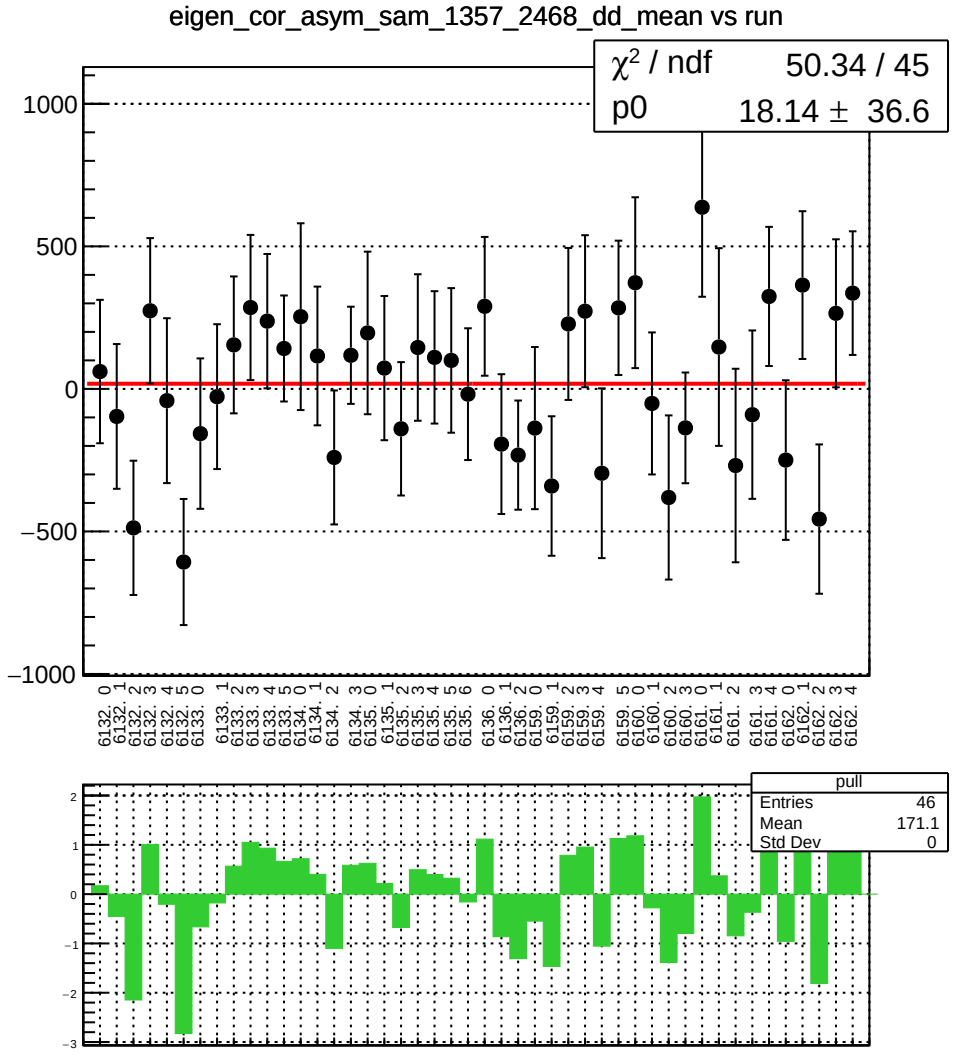

pull1D
Entries 46
Mean 0.01254
Std Dev 1.046
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

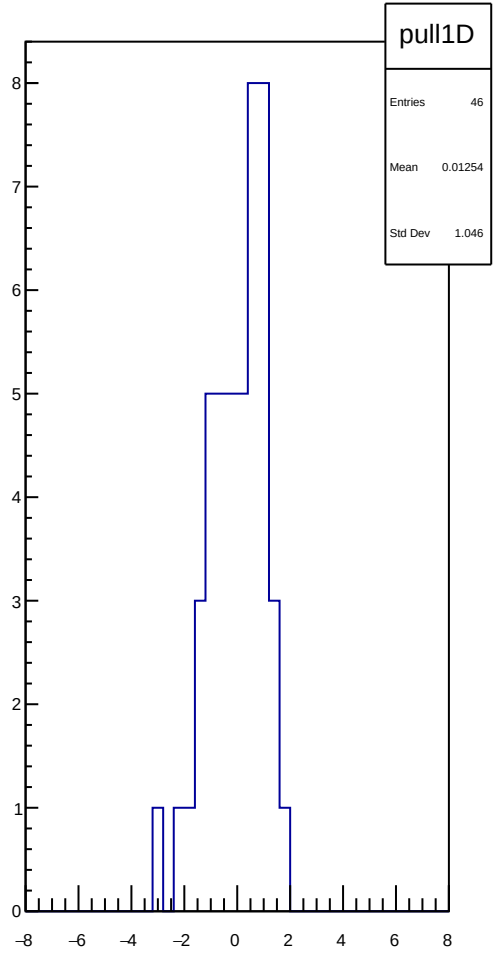

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 7740 / 45
p0 24.7 ± 0.02588
34
32
30
28
26
24
22
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

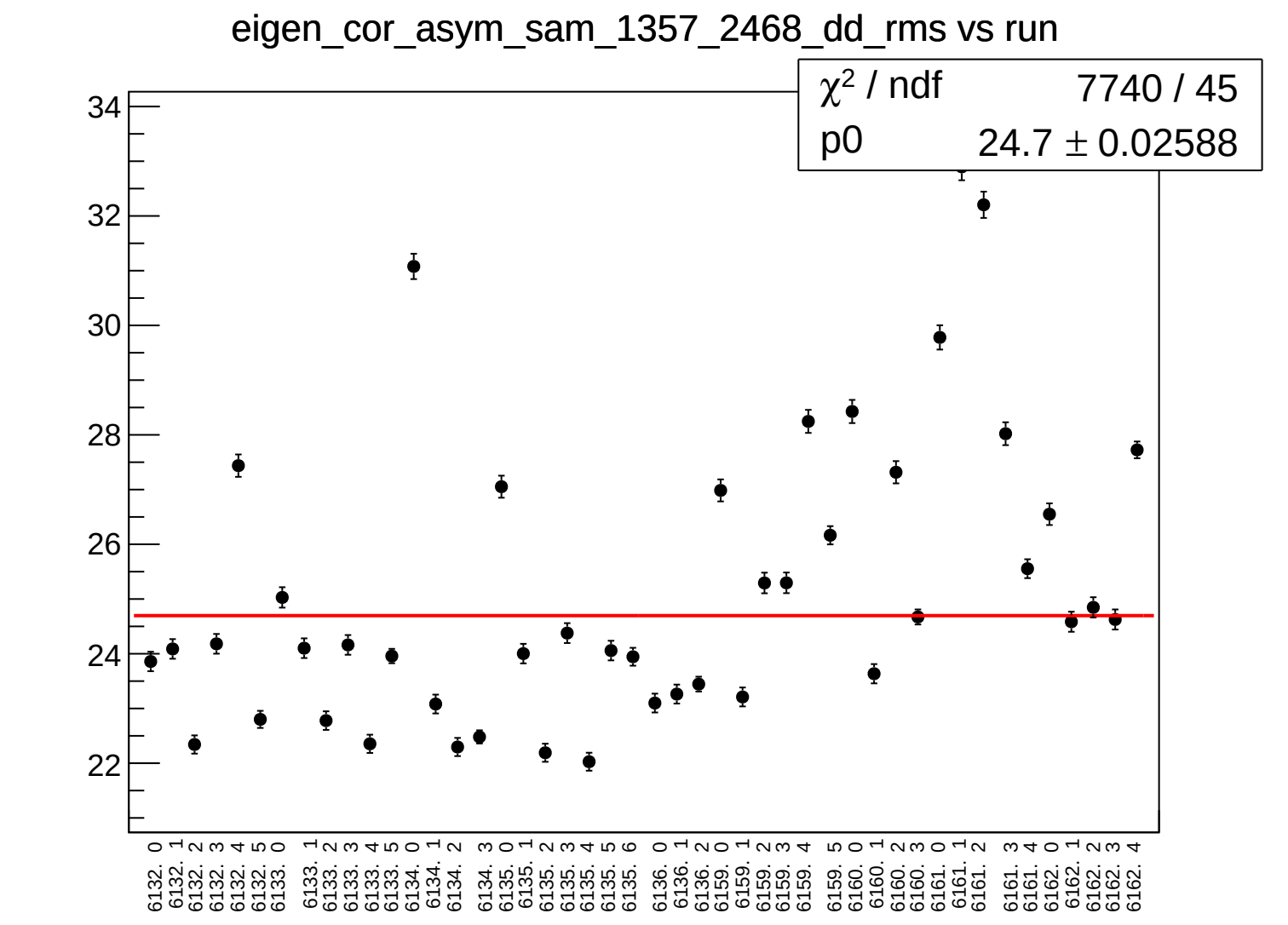

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 52.43 / 45
p0 89.7 ± 610
pull
Entries 46
Mean 88.42
Std Dev 0

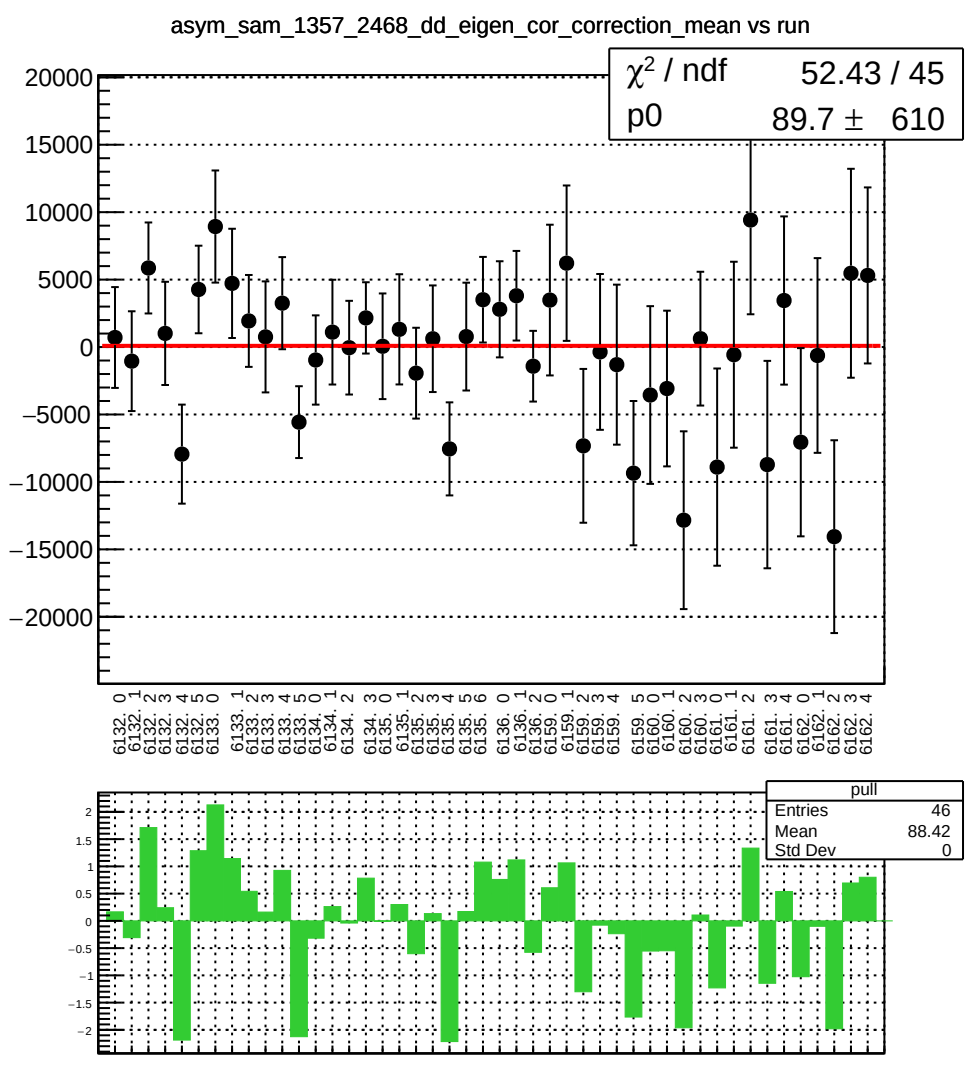

pull1D
Entries 46
Mean −0.05074
Std Dev 1.066

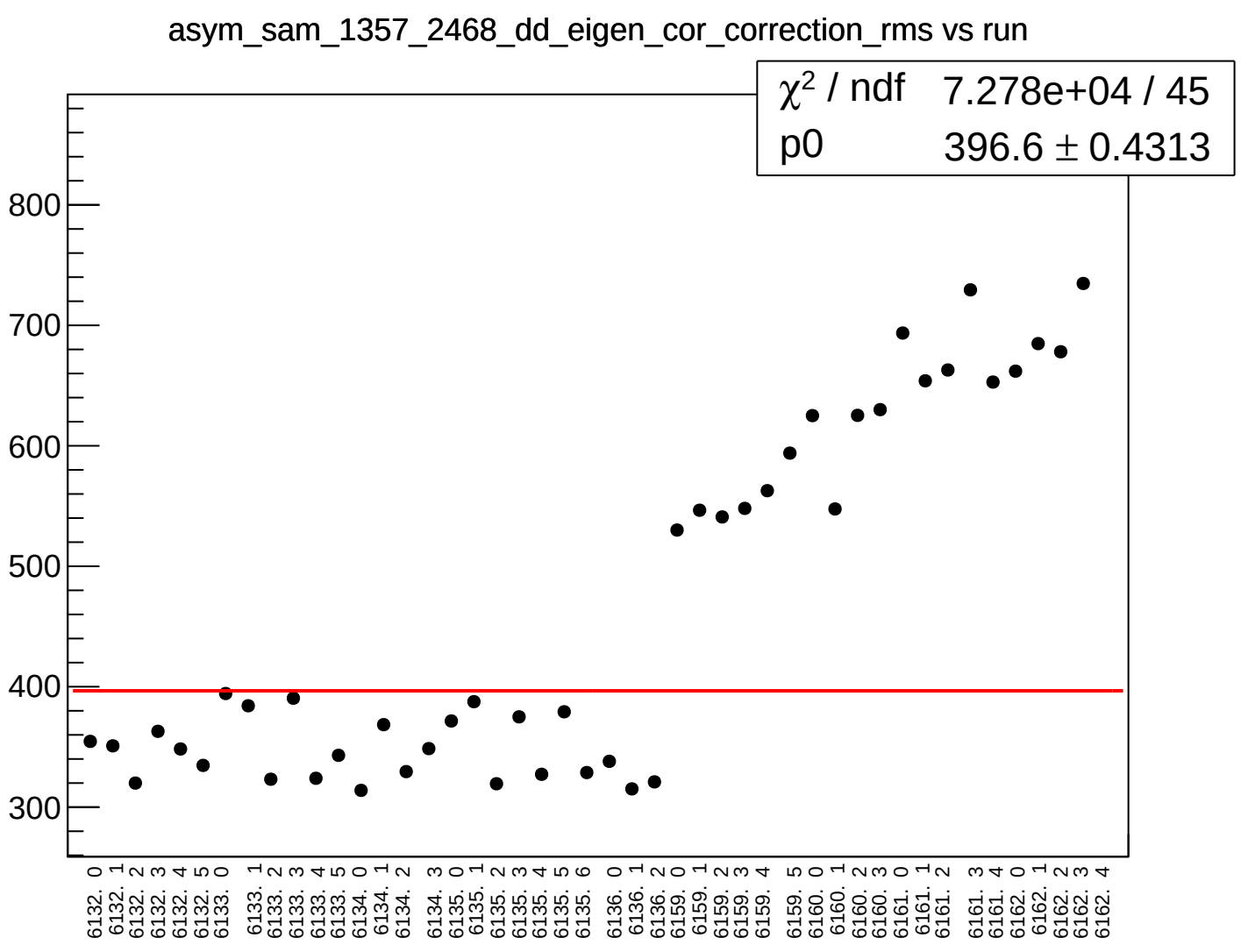

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 7.278e+04 / 45
p0 396.6 ± 0.4313
800
700
600
500
400
300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

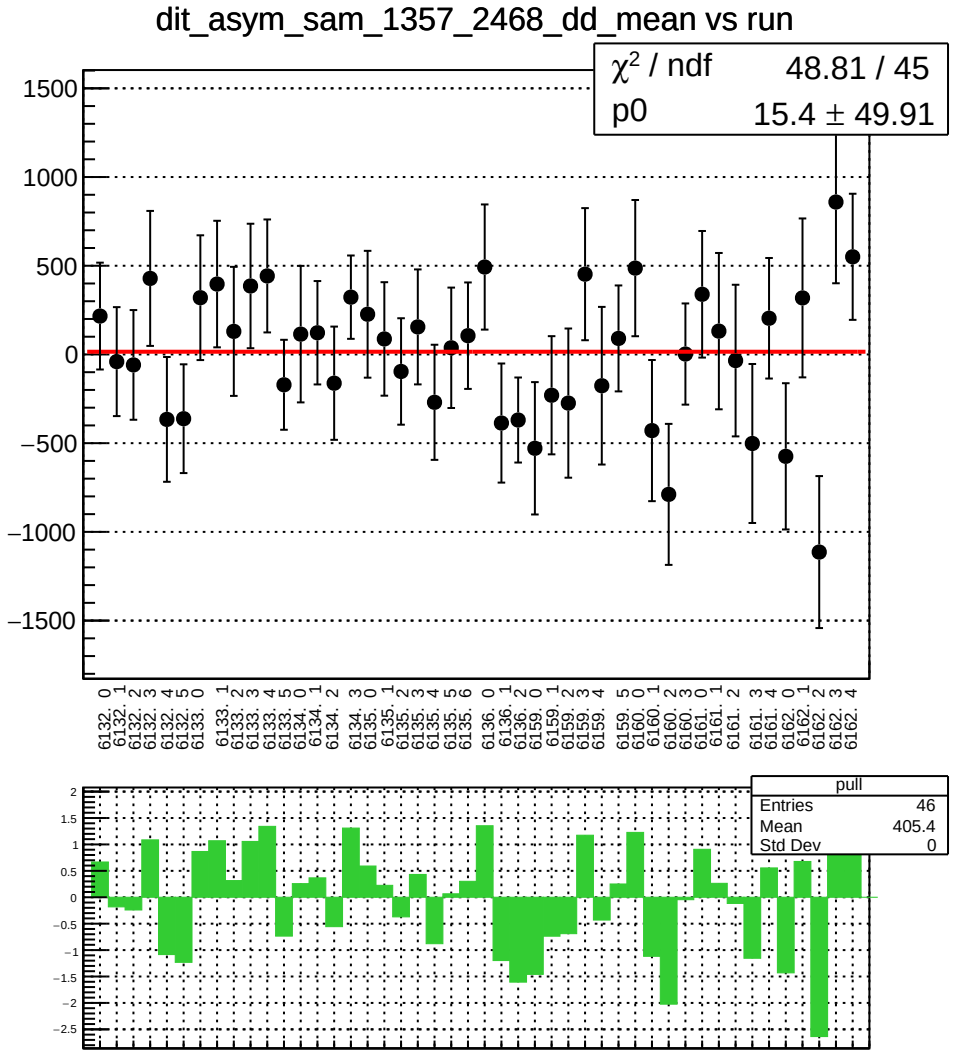

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 50.34 / 45
p0 18.14 ± 36.6
1000
500
0
−500
−1000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 171.1
Std Dev 0
2
1
0
−1
−2
−3

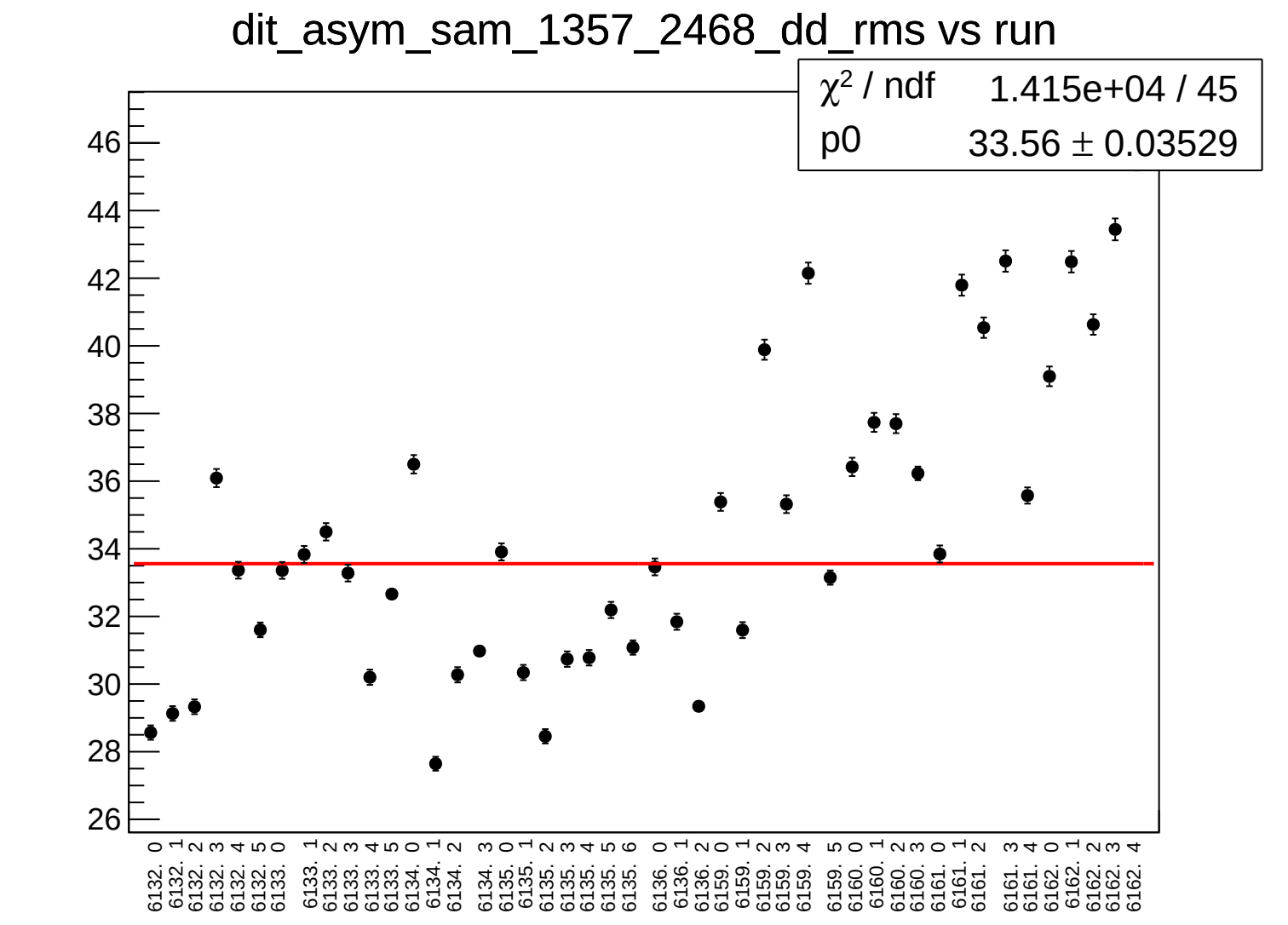

pull1D
Entries 46
Mean 0.01254
Std Dev 1.046
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

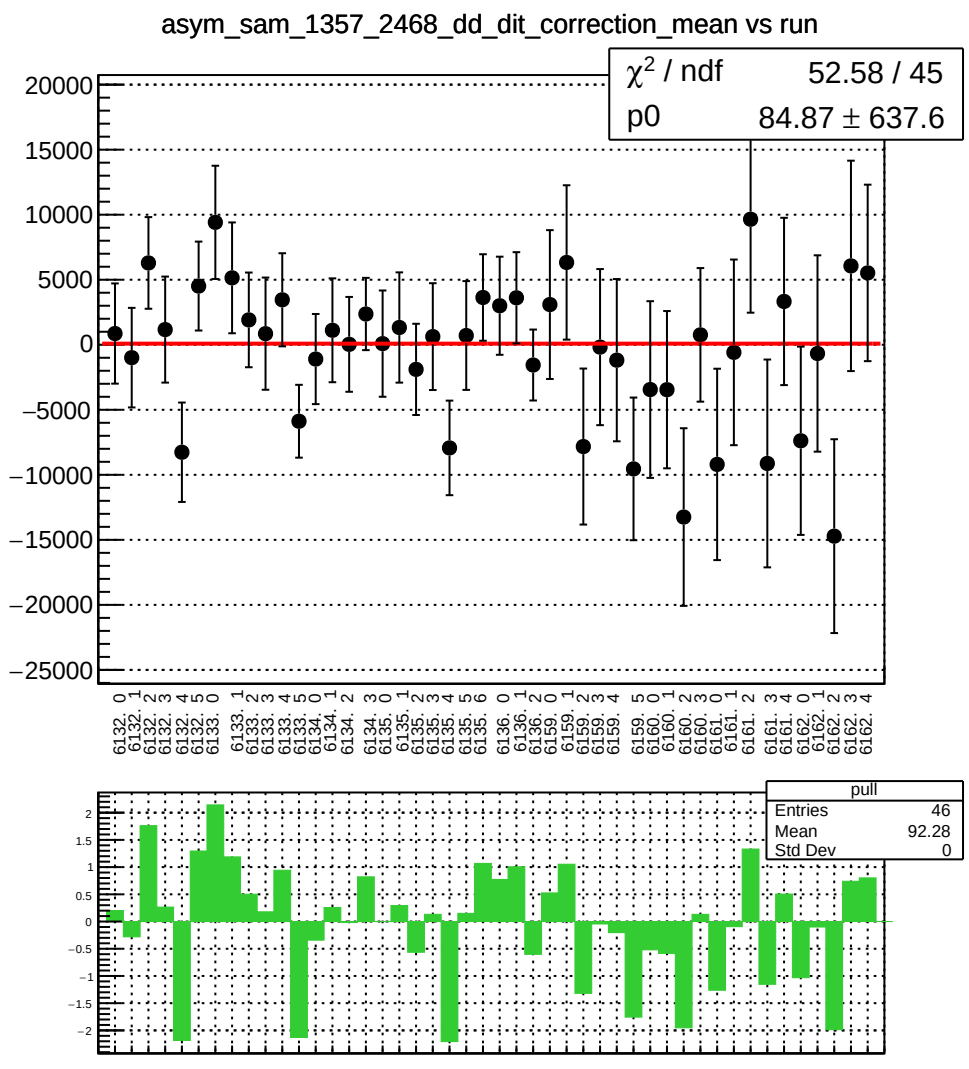

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 7740 / 45
p0 24.7 ± 0.02588
34
32
30
28
26
24
22
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

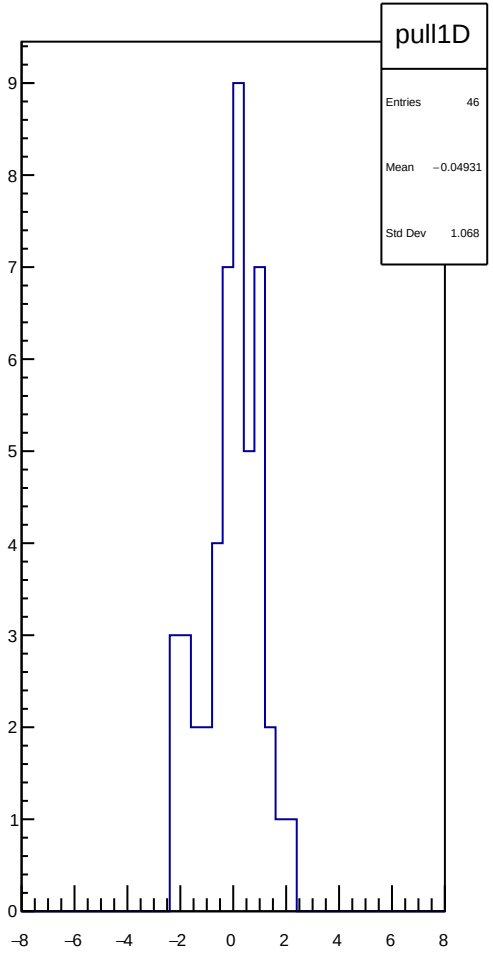

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 52.43 / 45
p0 89.7 ± 610
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 88.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.05074
Std Dev 1.066
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

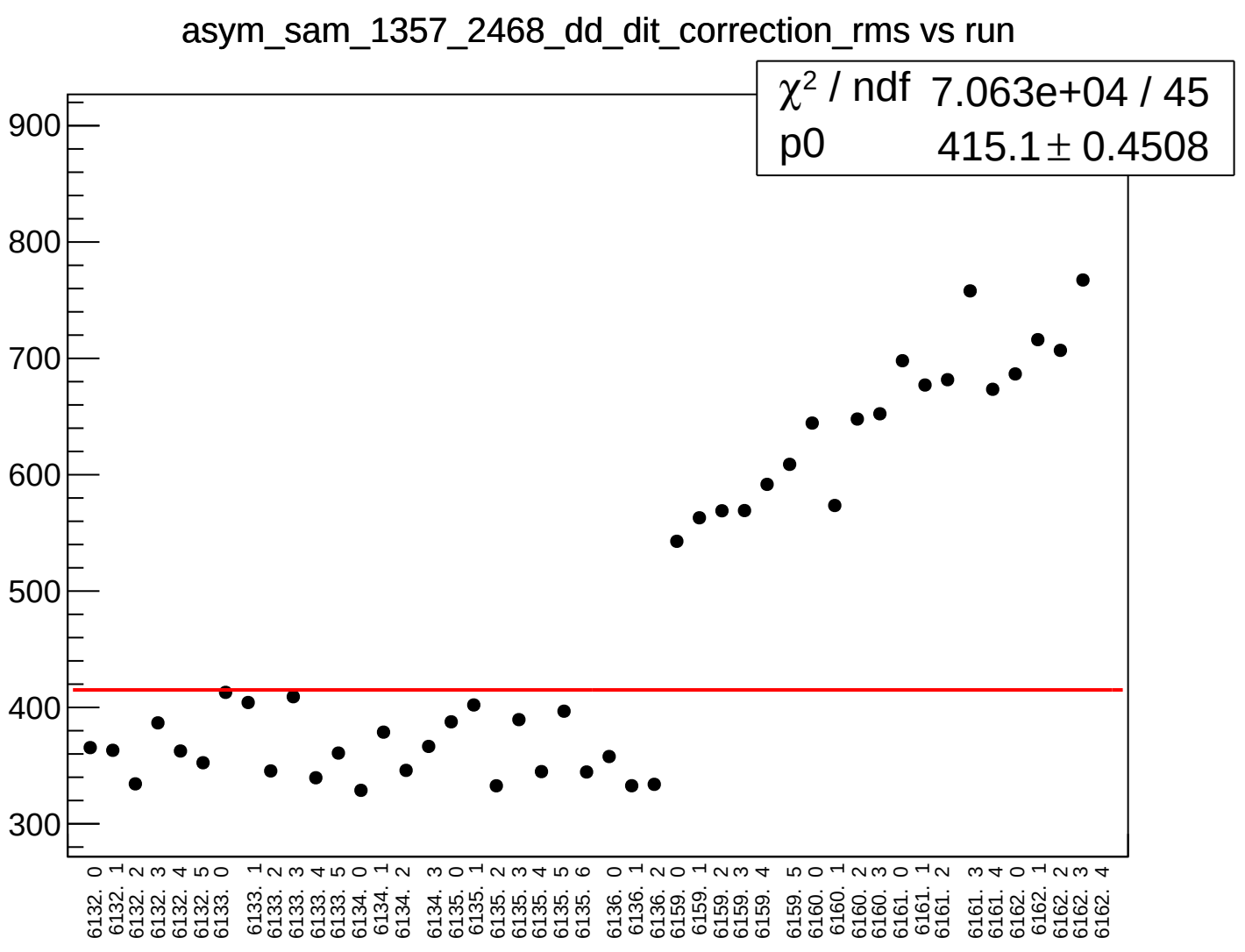

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 7.278e+04 / 45
p0 396.6 ± 0.4313
800
700
600
500
400
300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 48.81 / 45
p0 15.4 ± 49.91
1500
1000
500
0
−500
−1000
−1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 405.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean −0.004642
Std Dev 1.03
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.415e+04 / 45
p0 33.56 ± 0.03529
46
44
42
40
38
36
34
32
30
28
26
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 52.58 / 45
p0 84.87 ± 637.6
pull
Entries 46
Mean 92.28
Std Dev 0


pull1D
Entries 46
Mean −0.04931
Std Dev 1.068


asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 7.063e+04 / 45
p0 415.1 ± 0.4508
900
800
700
600
500
400
300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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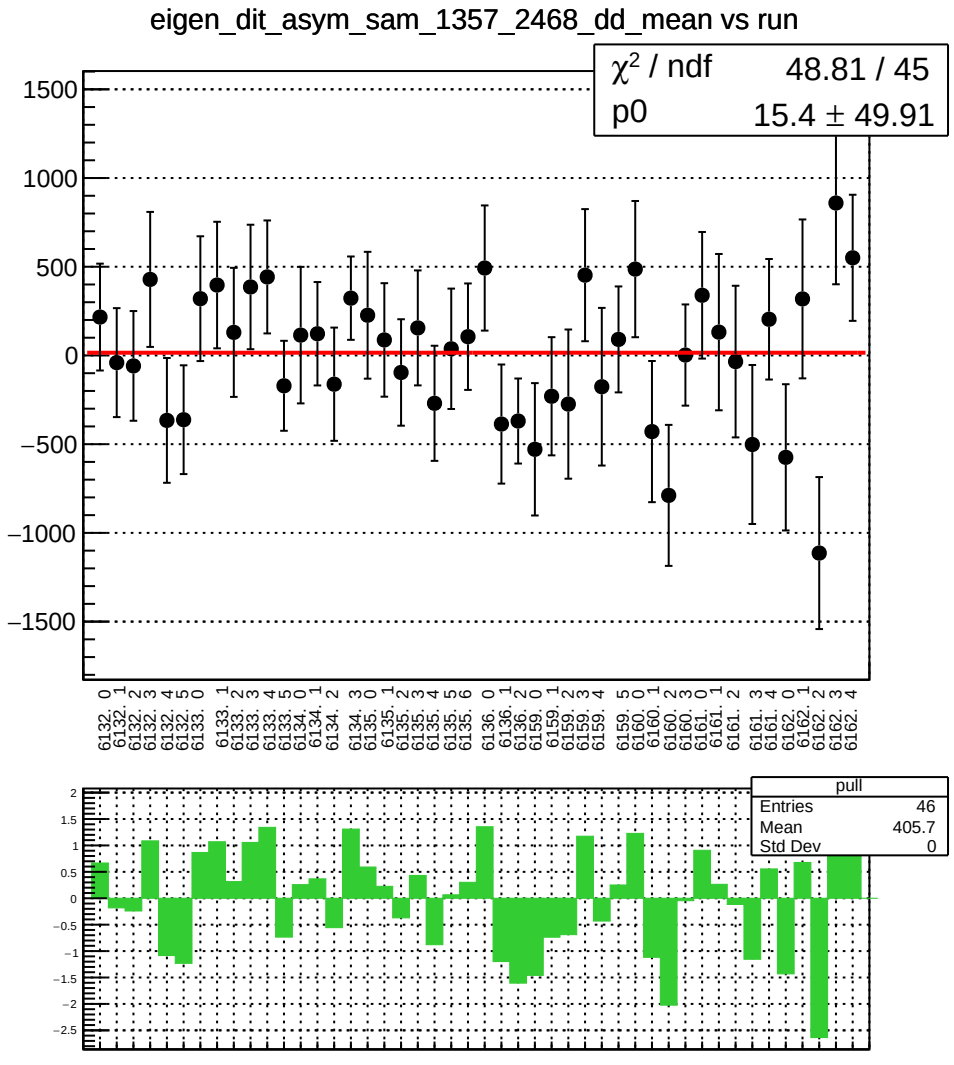
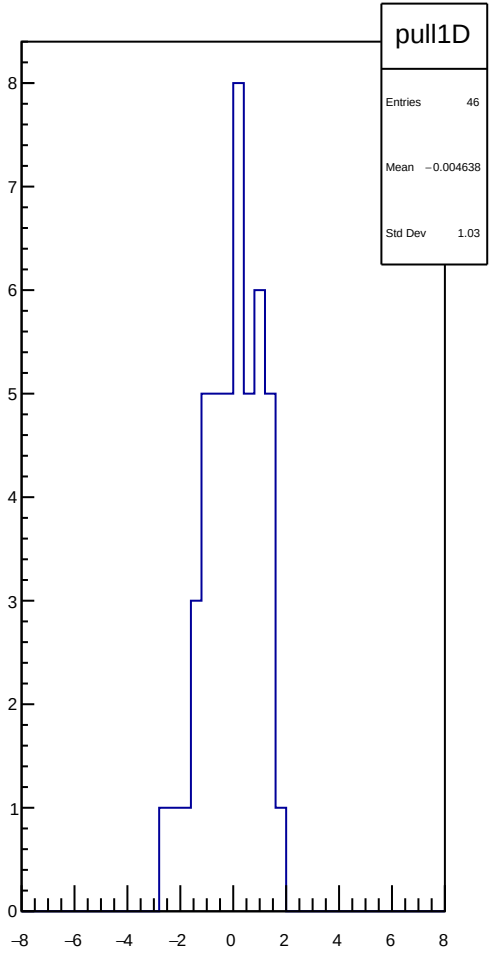
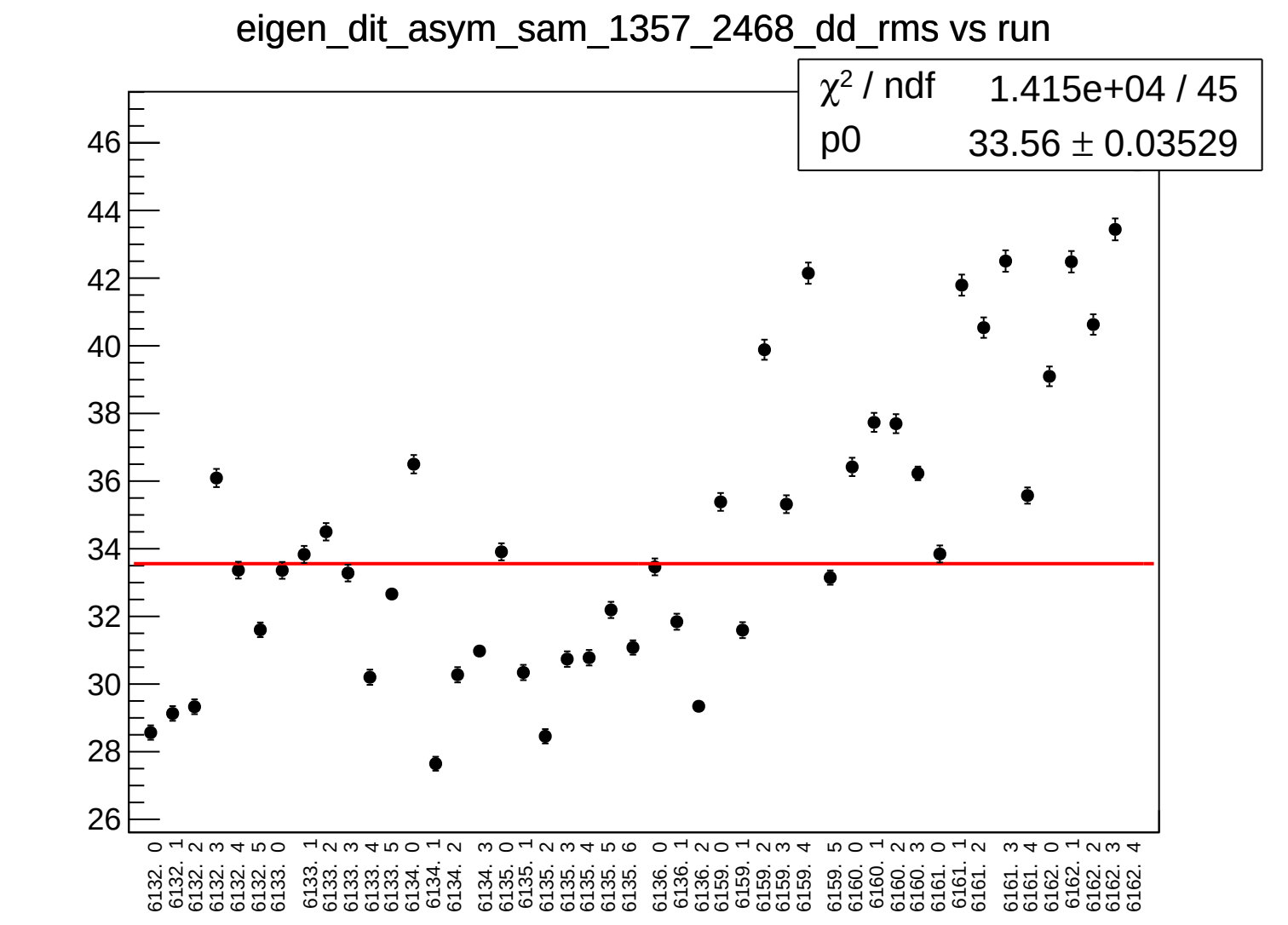
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 48.81 / 45
p0 15.4 ± 49.91
1500
1000
500
0
−500
−1000
−1500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 405.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.004638
Std Dev 1.03
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.415e+04 / 45
p0 33.56 ± 0.03529
46
44
42
40
38
36
34
32
30
28
26
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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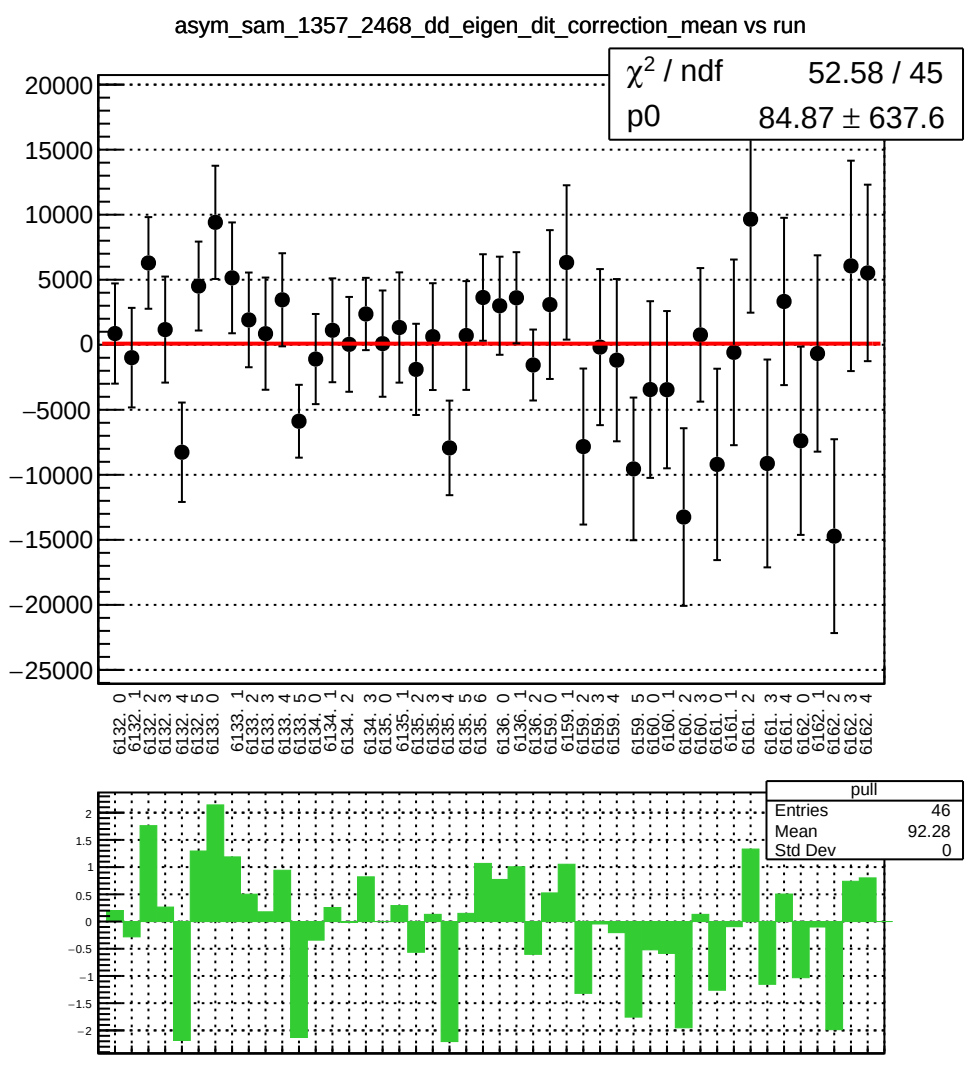
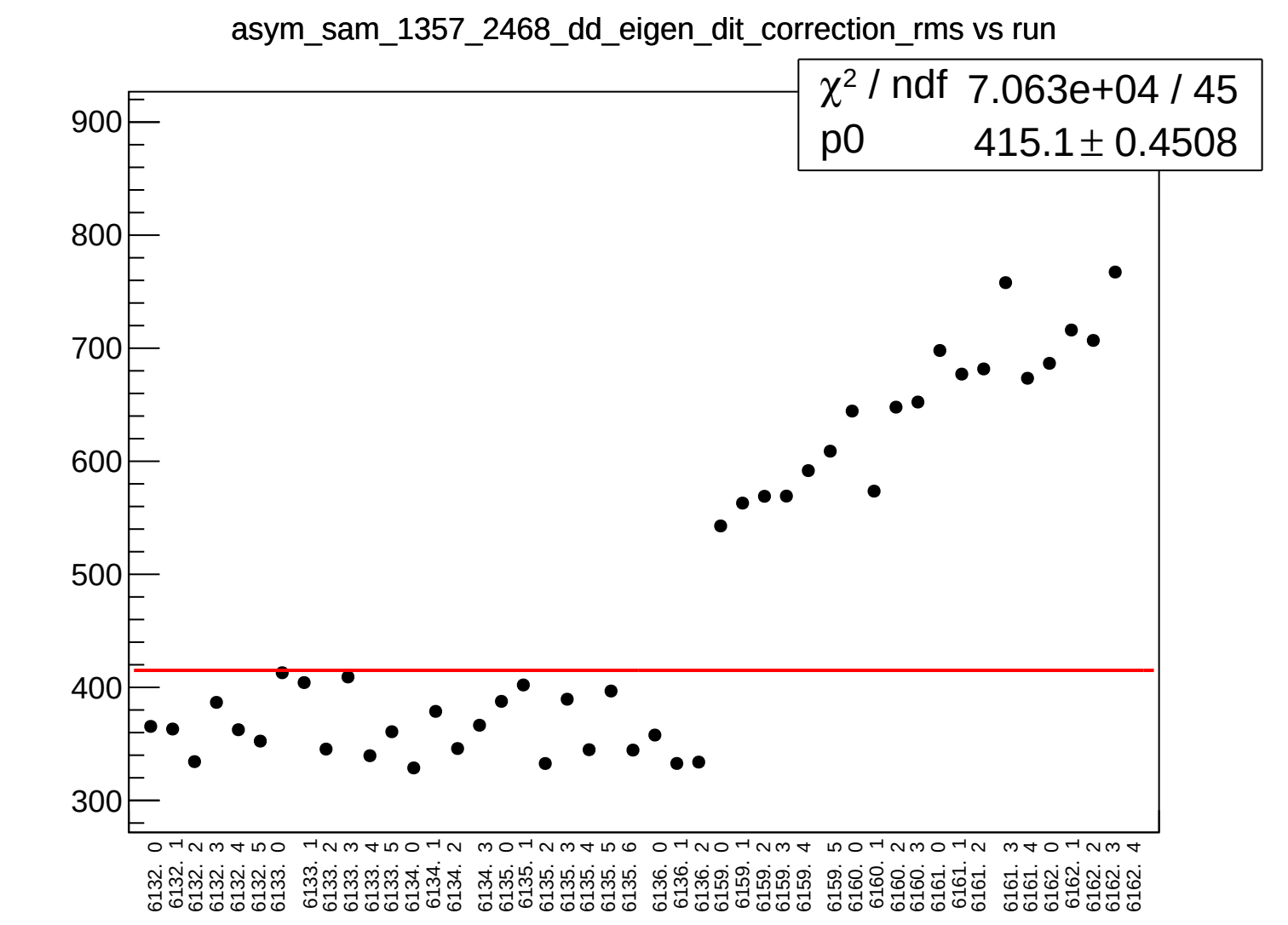
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 52.58 / 45
p0 84.87 ± 637.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 92.28
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.0493
Std Dev 1.068
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 7.063e+04 / 45
p0 415.1 ± 0.4508
900
800
700
600
500
400
300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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6135. 4
6135. 5
6135. 6
6136. 0
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6136. 2
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6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
6161. 3
6161. 4
6162. 0
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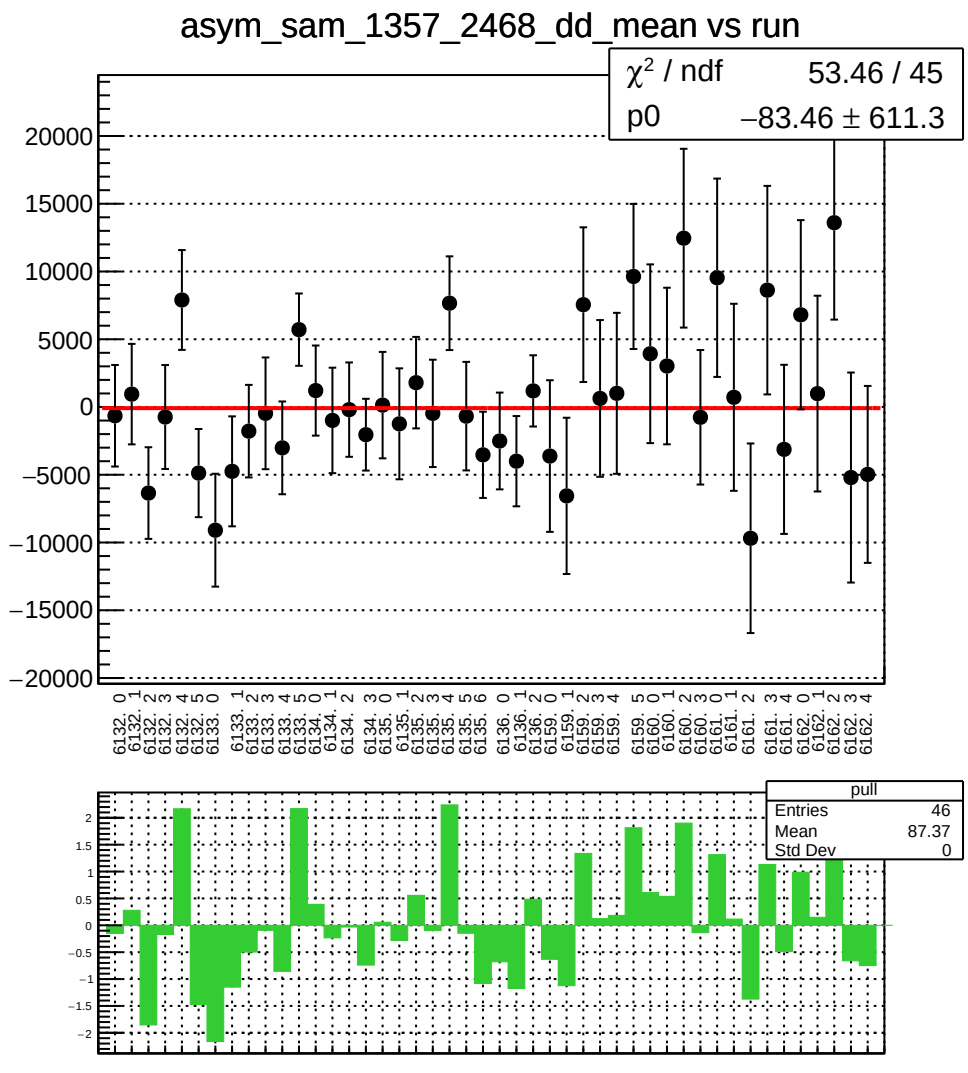
6162. 4


asym_sam_1357_2468_dd_mean vs run
χ² / ndf 53.46 / 45
p0 −83.46 ± 611.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 0
6135. 1
6135. 2
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6136. 0
6136. 1
6136. 2
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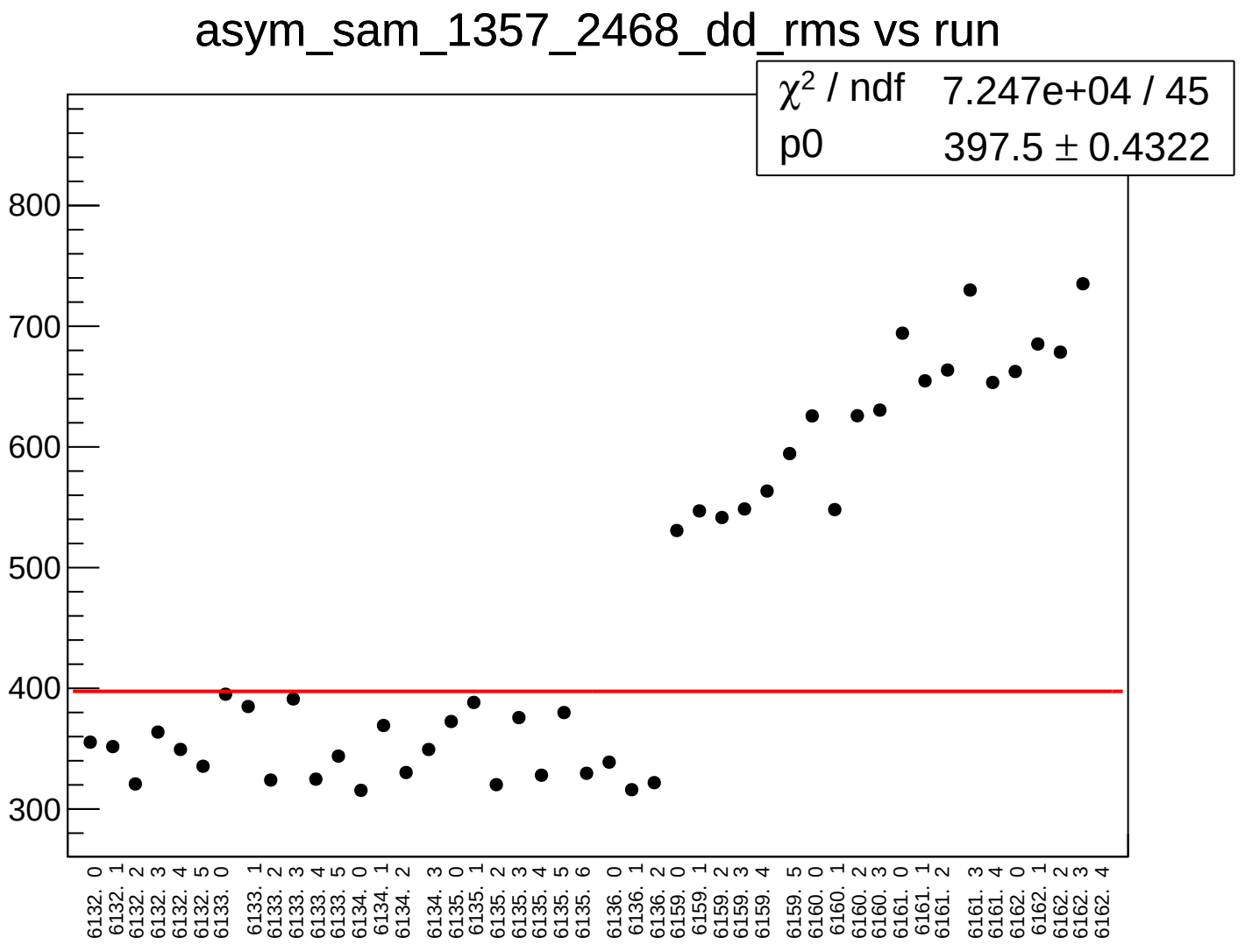
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 87.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.05276
Std Dev 1.077
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_rms vs run
χ² / ndf 7.247e+04 / 45
p0 397.5 ± 0.4322
800
700
600
500
400
300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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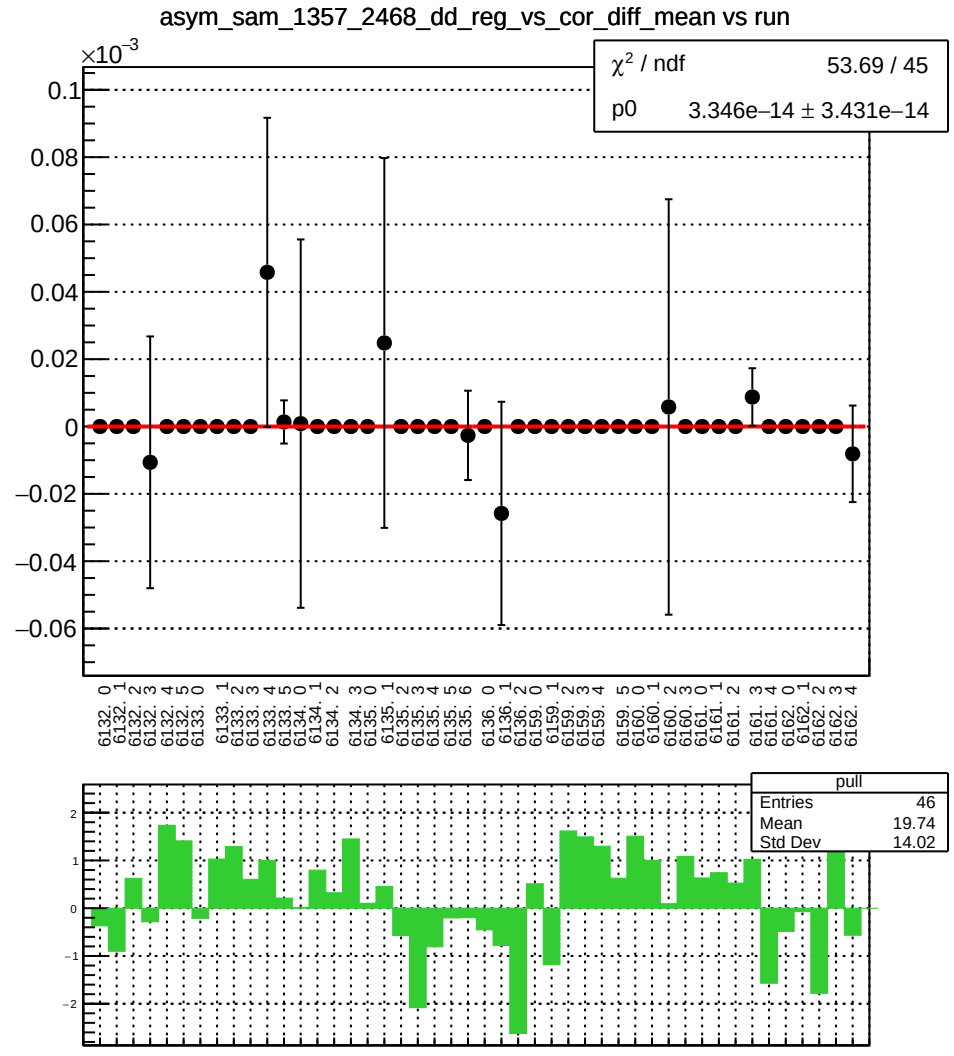
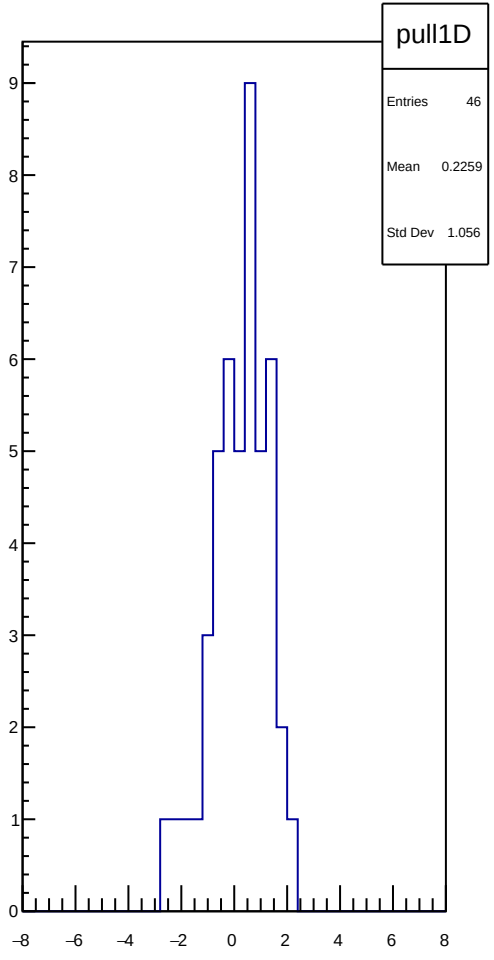
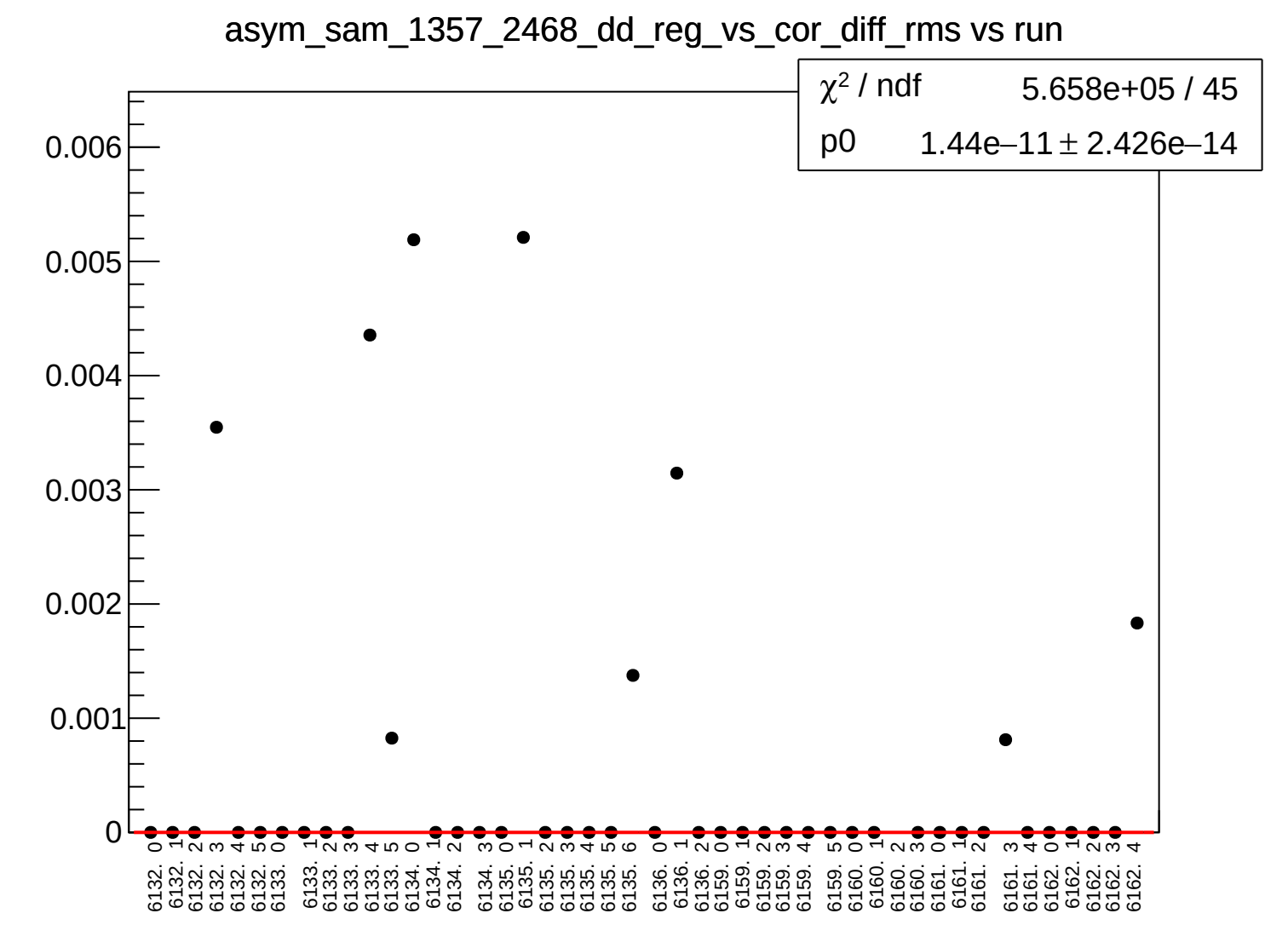
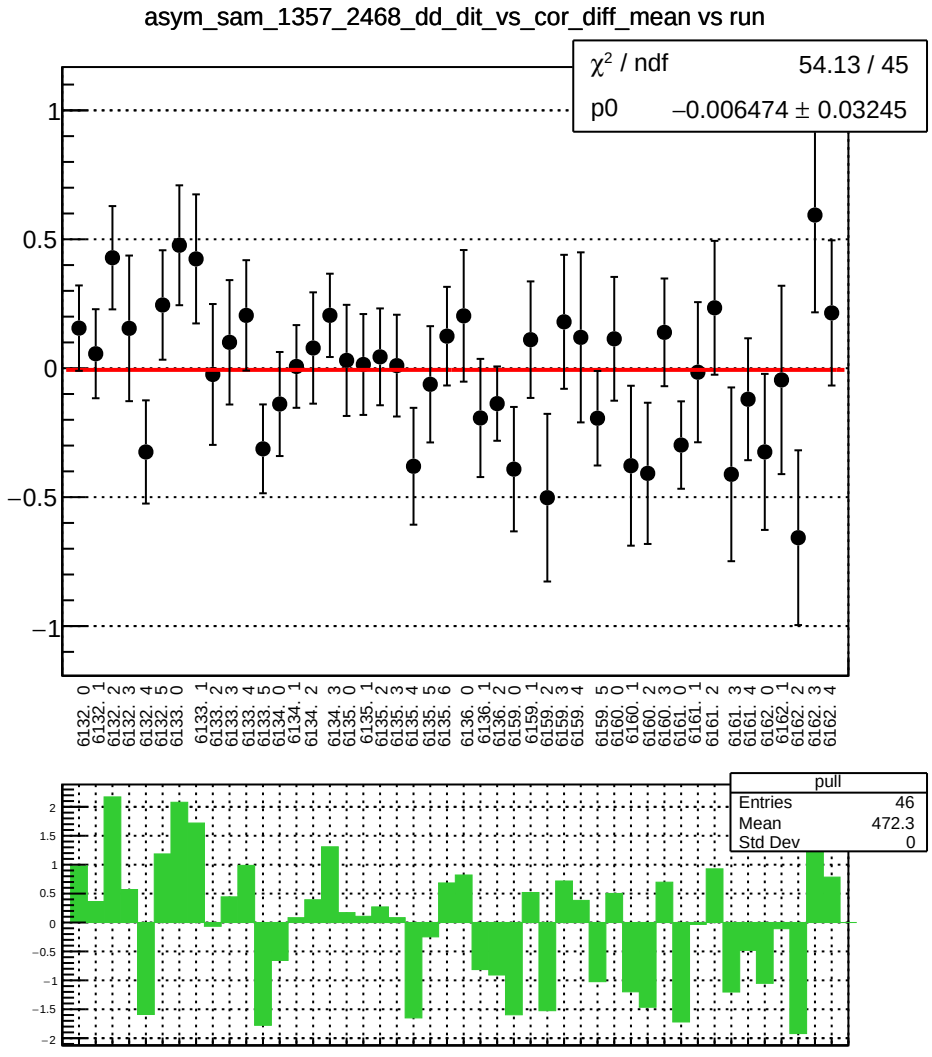
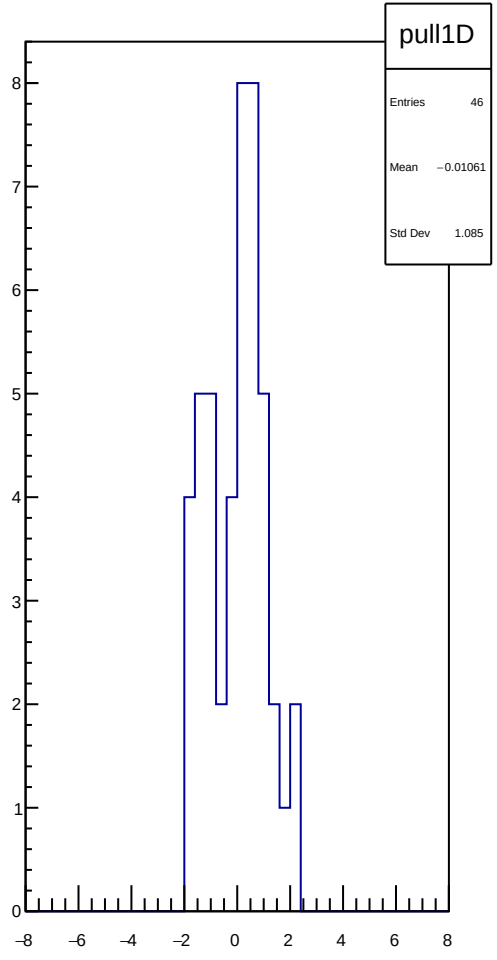
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

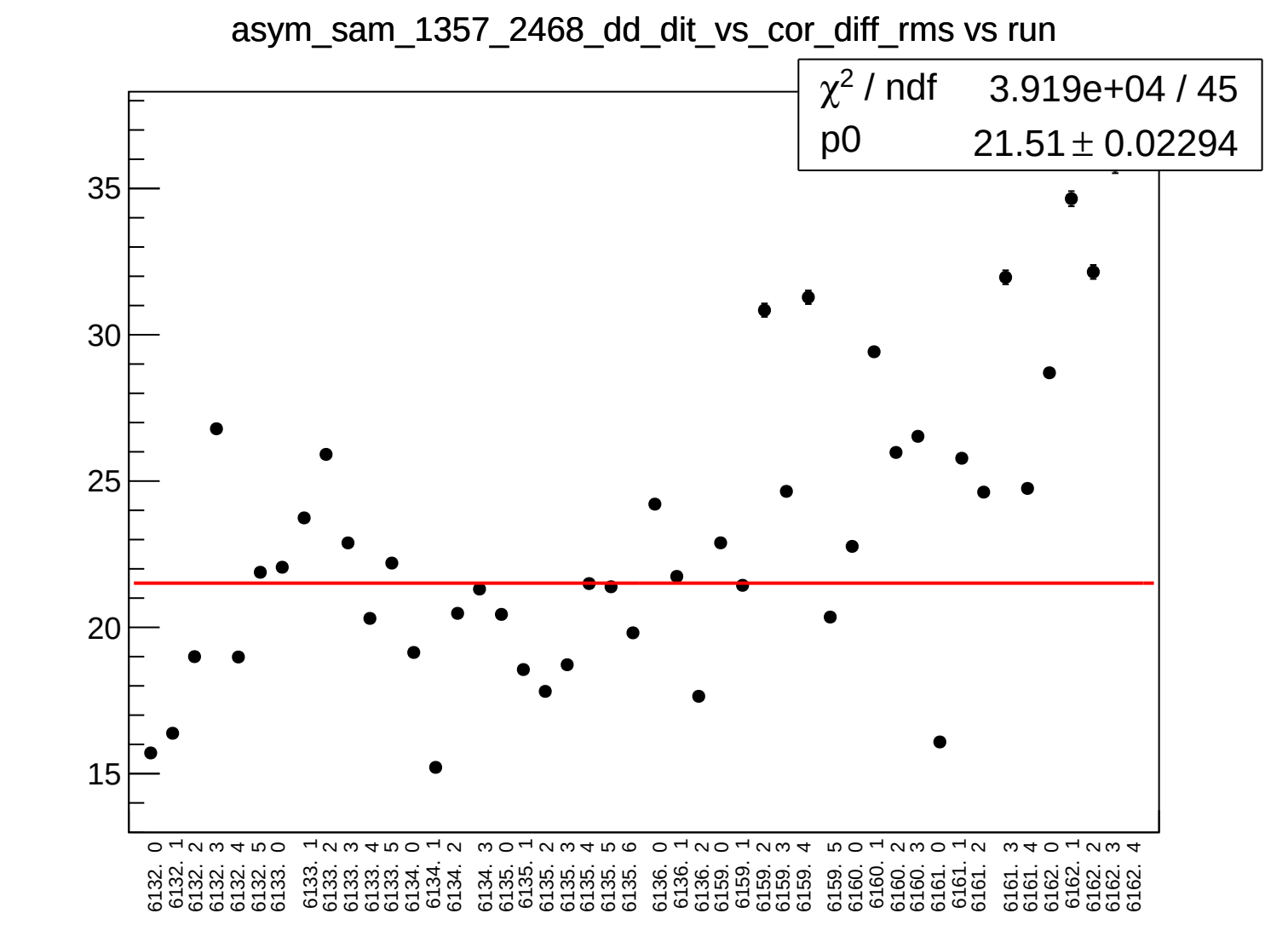

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 53.69 / 45
p0 3.346e−14 ± 3.431e−14
pull
Entries 46
Mean 19.74
Std Dev 14.02

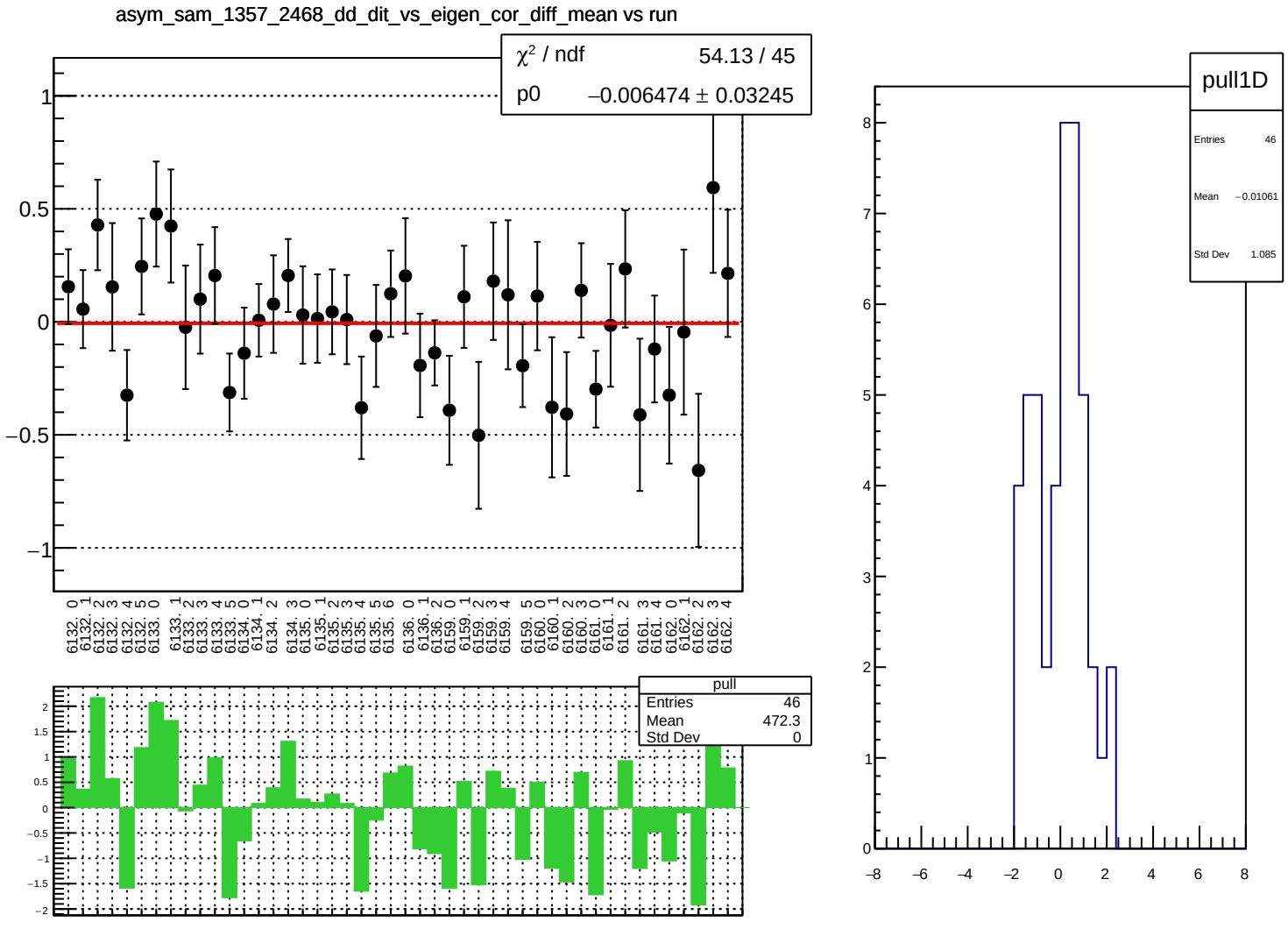

pull1D
Entries 46
Mean 0.2259
Std Dev 1.056

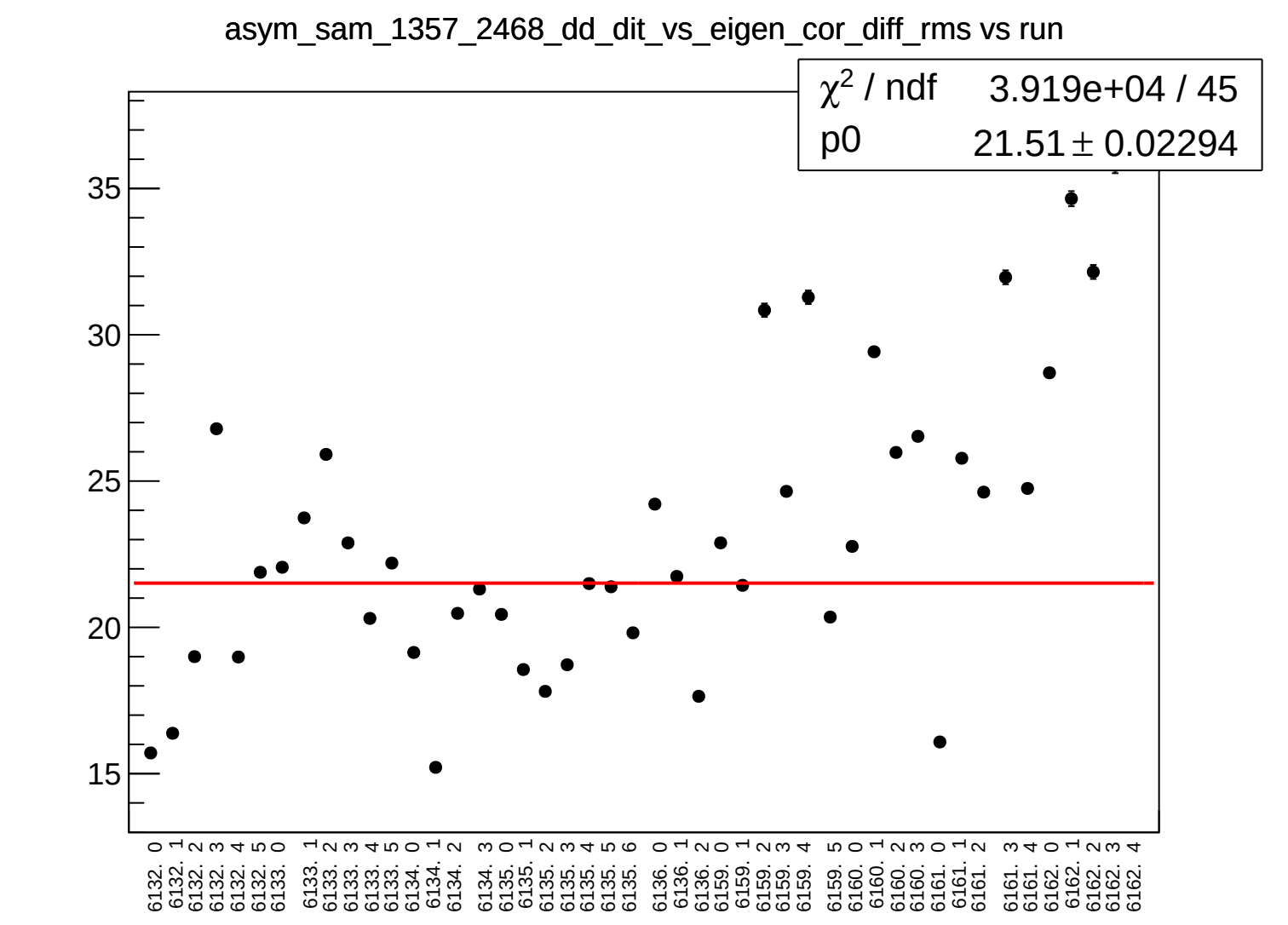

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.658e+05 / 45
p0 1.44e−11 ± 2.426e−14
0.006
0.005
0.004
0.003
0.002
0.001
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

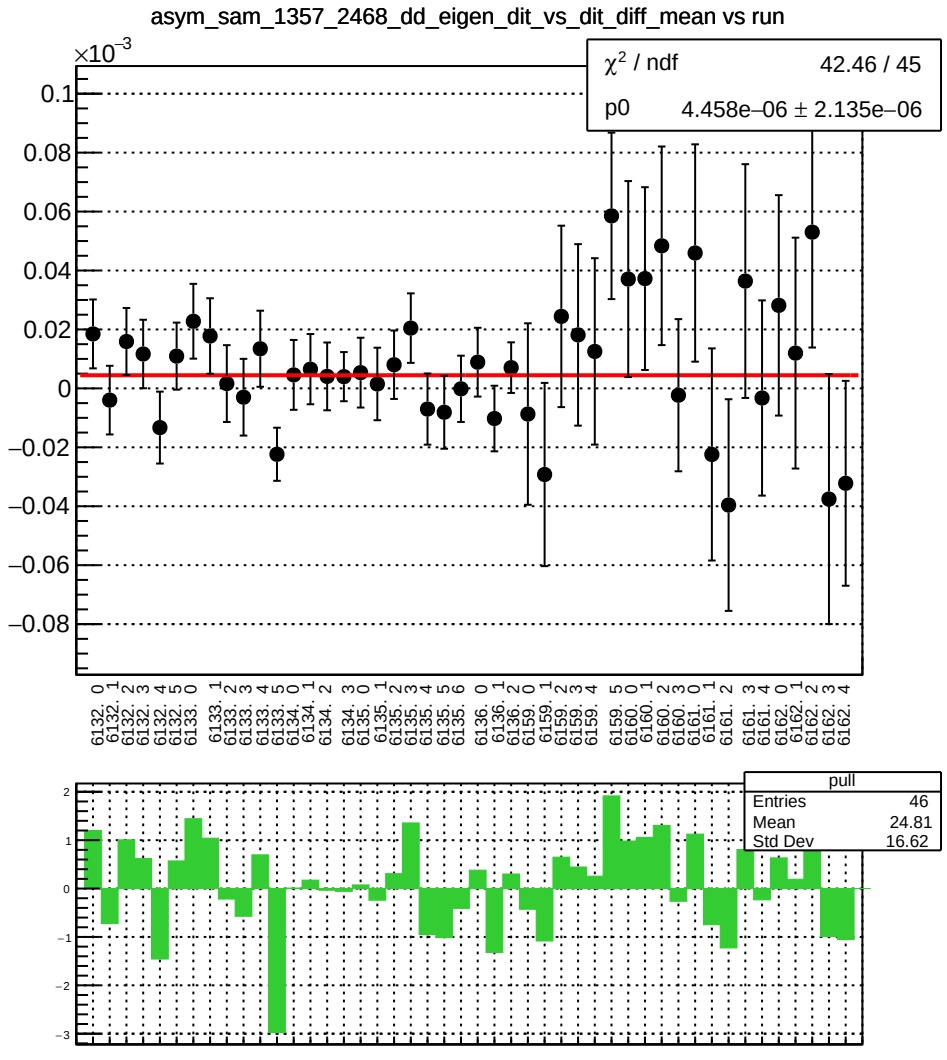

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 54.13 / 45
p0 −0.006474 ± 0.03245
pull
Entries 46
Mean 472.3
Std Dev 0

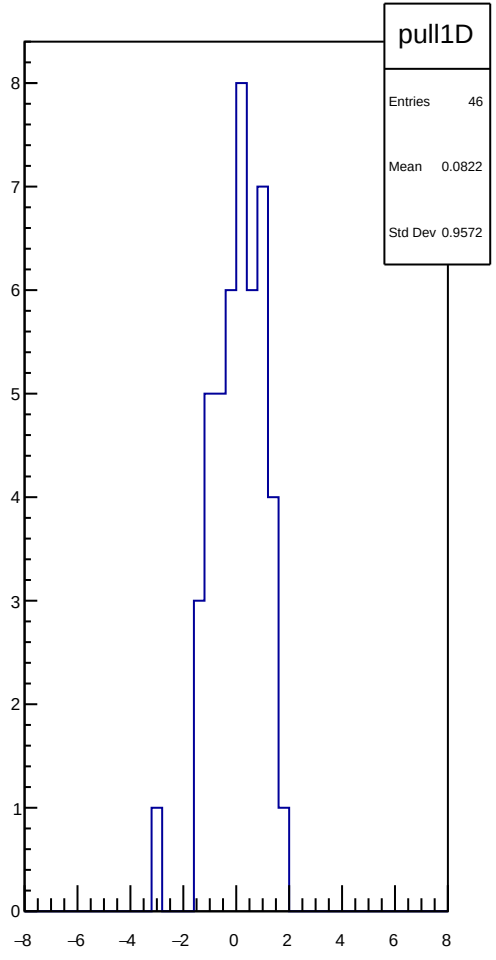

pull1D
Entries 46
Mean −0.01061
Std Dev 1.085

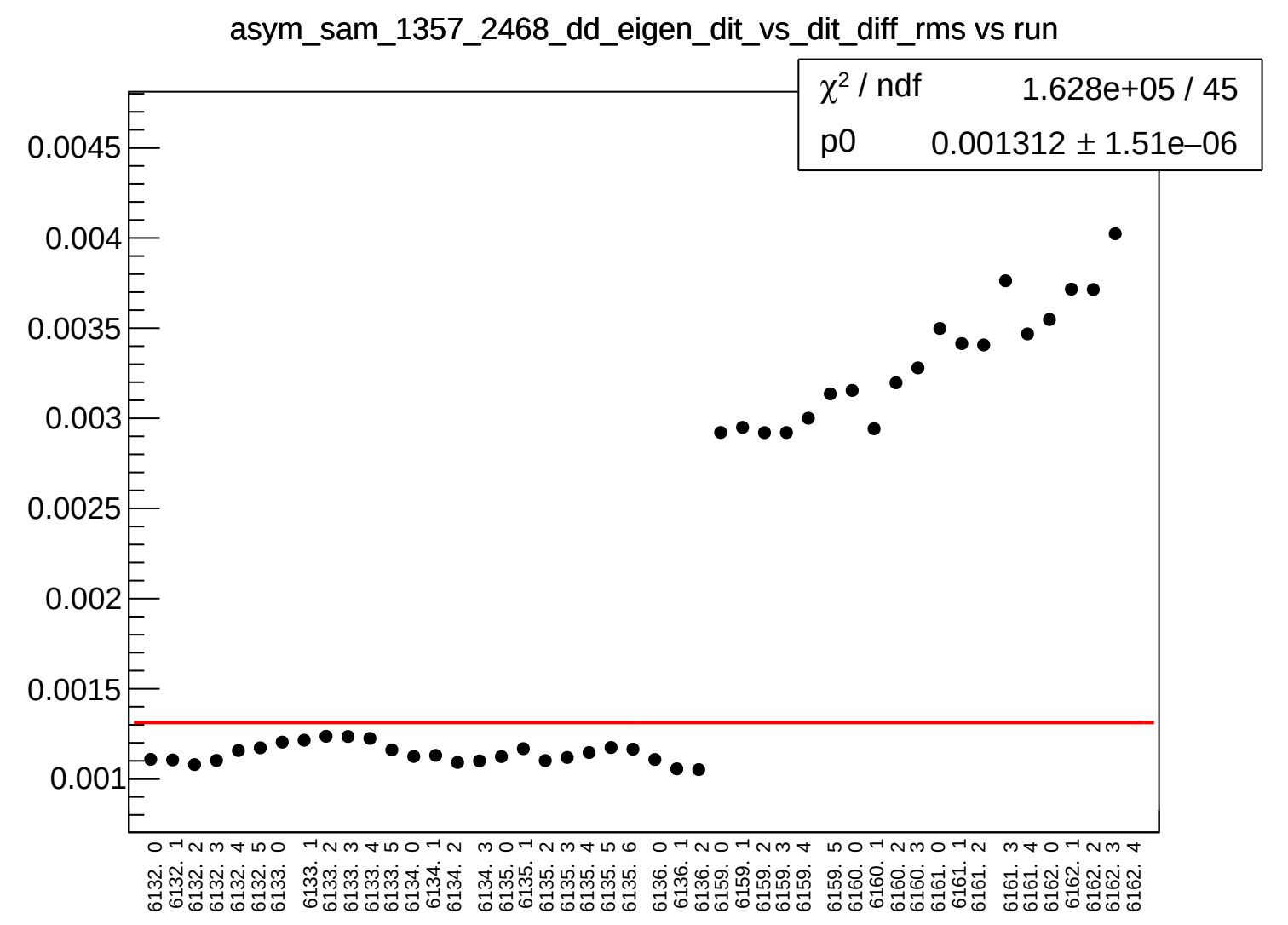

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.919e+04 / 45
p0 21.51 ± 0.02294
35
30
25
20
15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

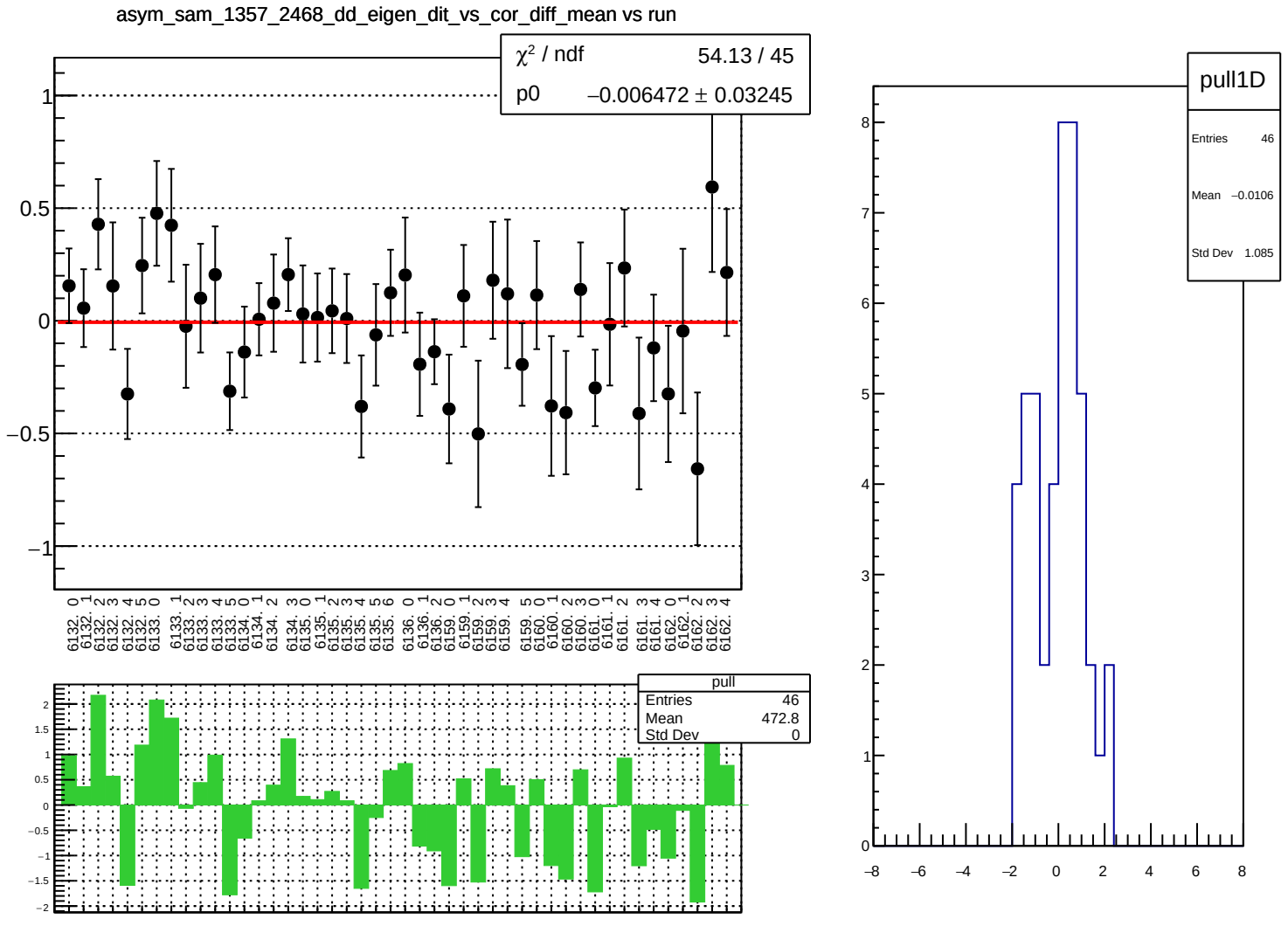

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.13 / 45
p0 −0.006474 ± 0.03245
pull
Entries 46
Mean 472.3
Std Dev 0
pull1D
Entries 46
Mean −0.01061
Std Dev 1.085

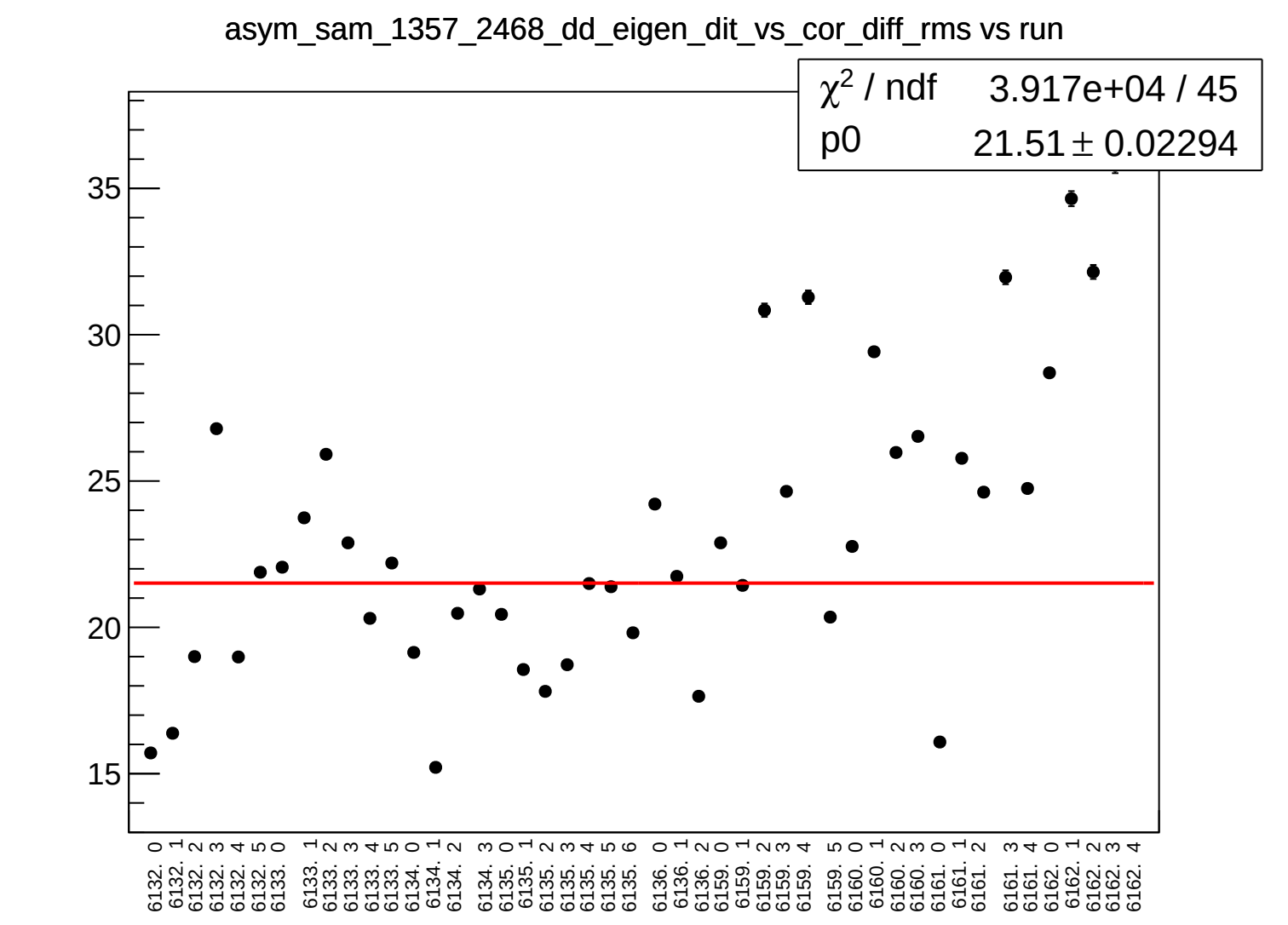

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.919e+04 / 45
p0 21.51 ± 0.02294
35
30
25
20
15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

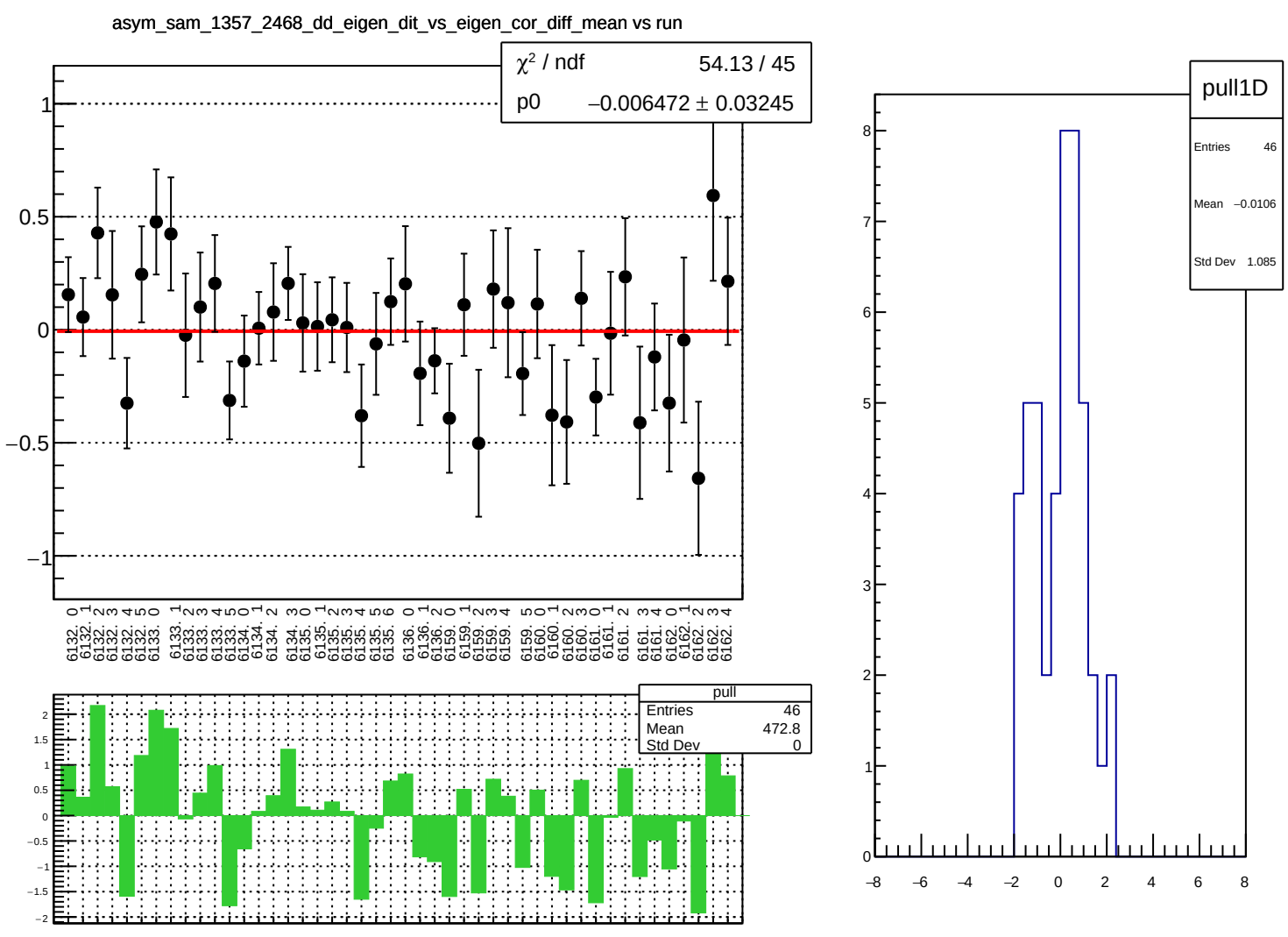

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 42.46 / 45
p0 4.458e−06 ± 2.135e−06
pull
Entries 46
Mean 24.81
Std Dev 16.62

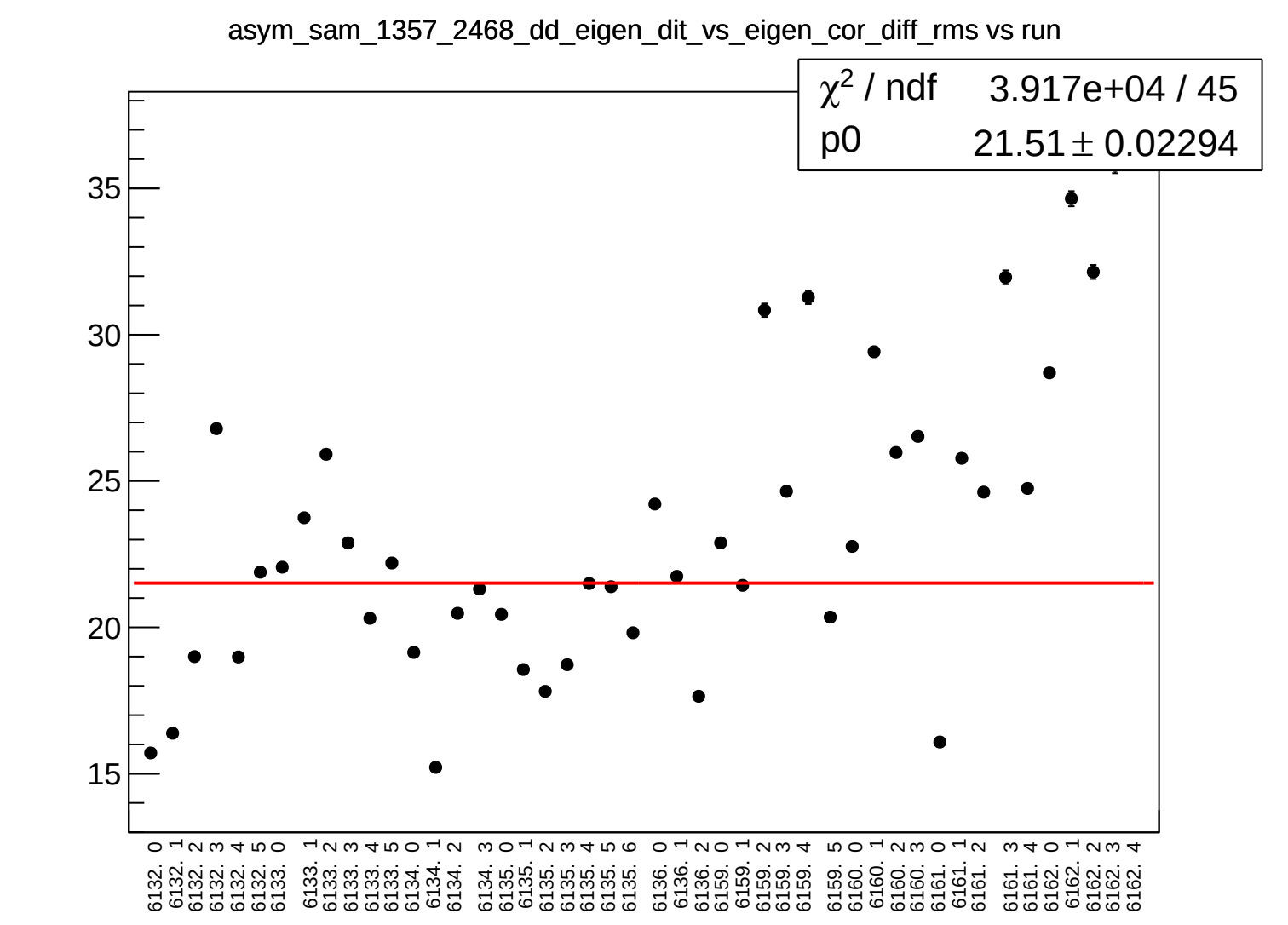

pull1D
Entries 46
Mean 0.0822
Std Dev 0.9572

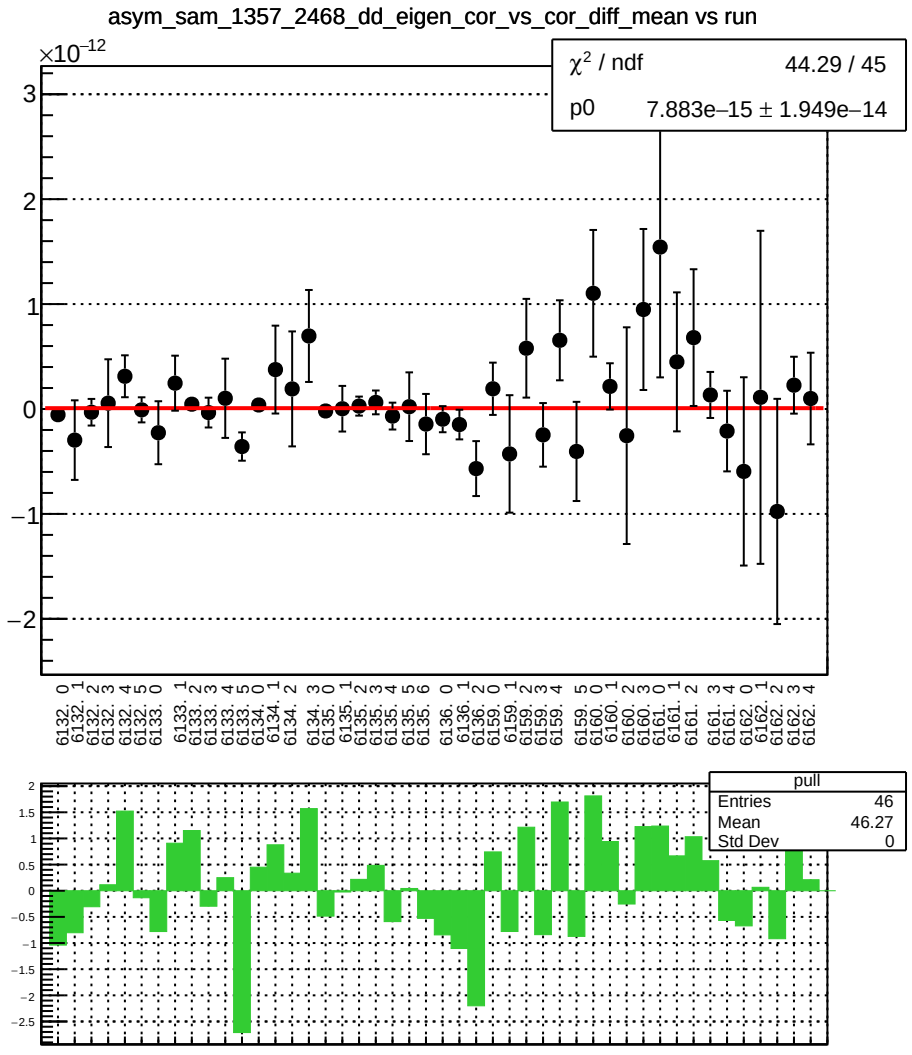

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.628e+05 / 45
p0 0.001312 ± 1.51e–06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

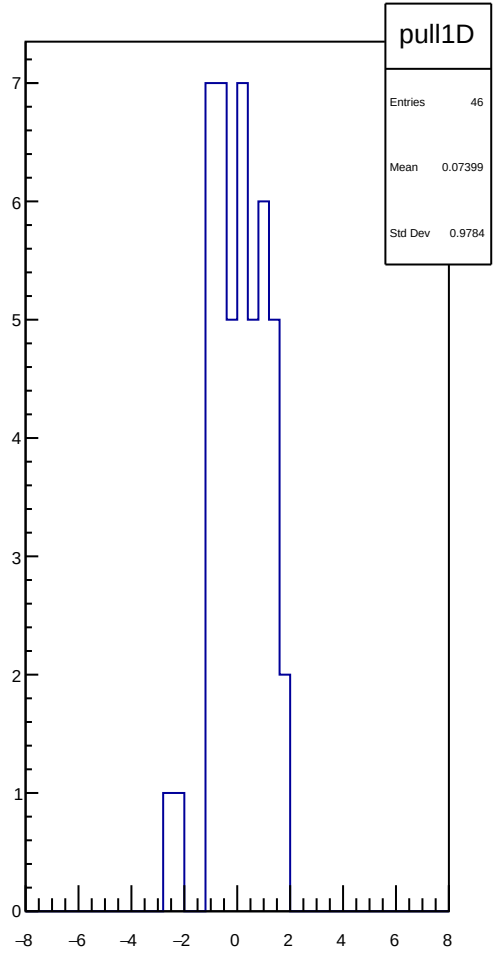

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 54.13 / 45
p0 −0.006472 ± 0.03245
pull
Entries 46
Mean 472.8
Std Dev 0
pull1D
Entries 46
Mean −0.0106
Std Dev 1.085

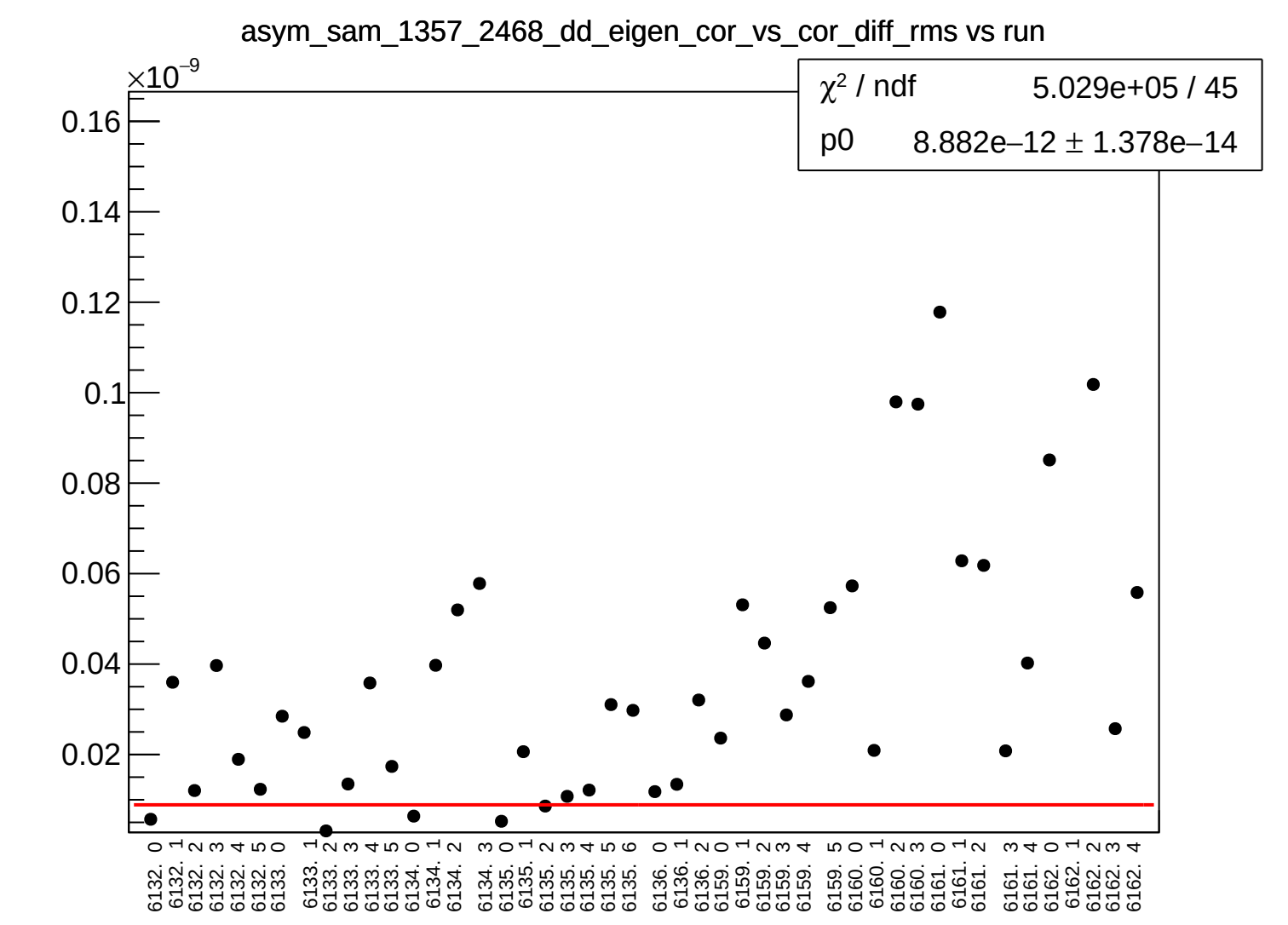

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.917e+04 / 45
p0 21.51 ± 0.02294
35
30
25
20
15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

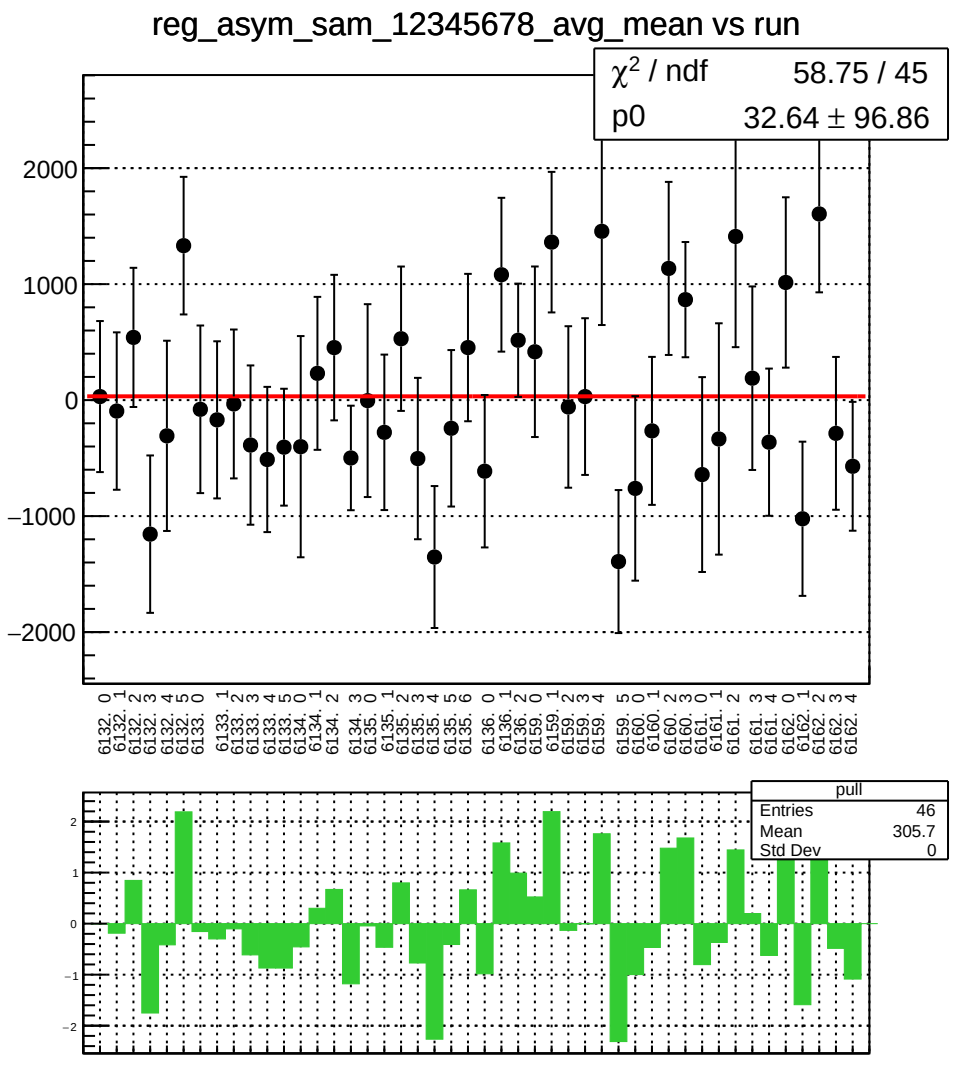

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.13 / 45
p0 −0.006472 ± 0.03245
pull
Entries 46
Mean 472.8
Std Dev 0
pull1D
Entries 46
Mean −0.0106
Std Dev 1.085

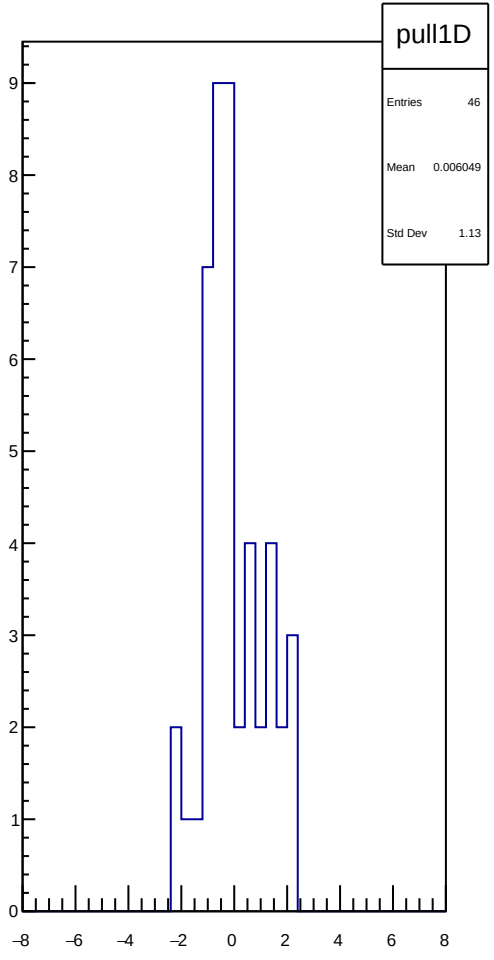

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.917e+04 / 45
p0 21.51 ± 0.02294
35
30
25
20
15
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

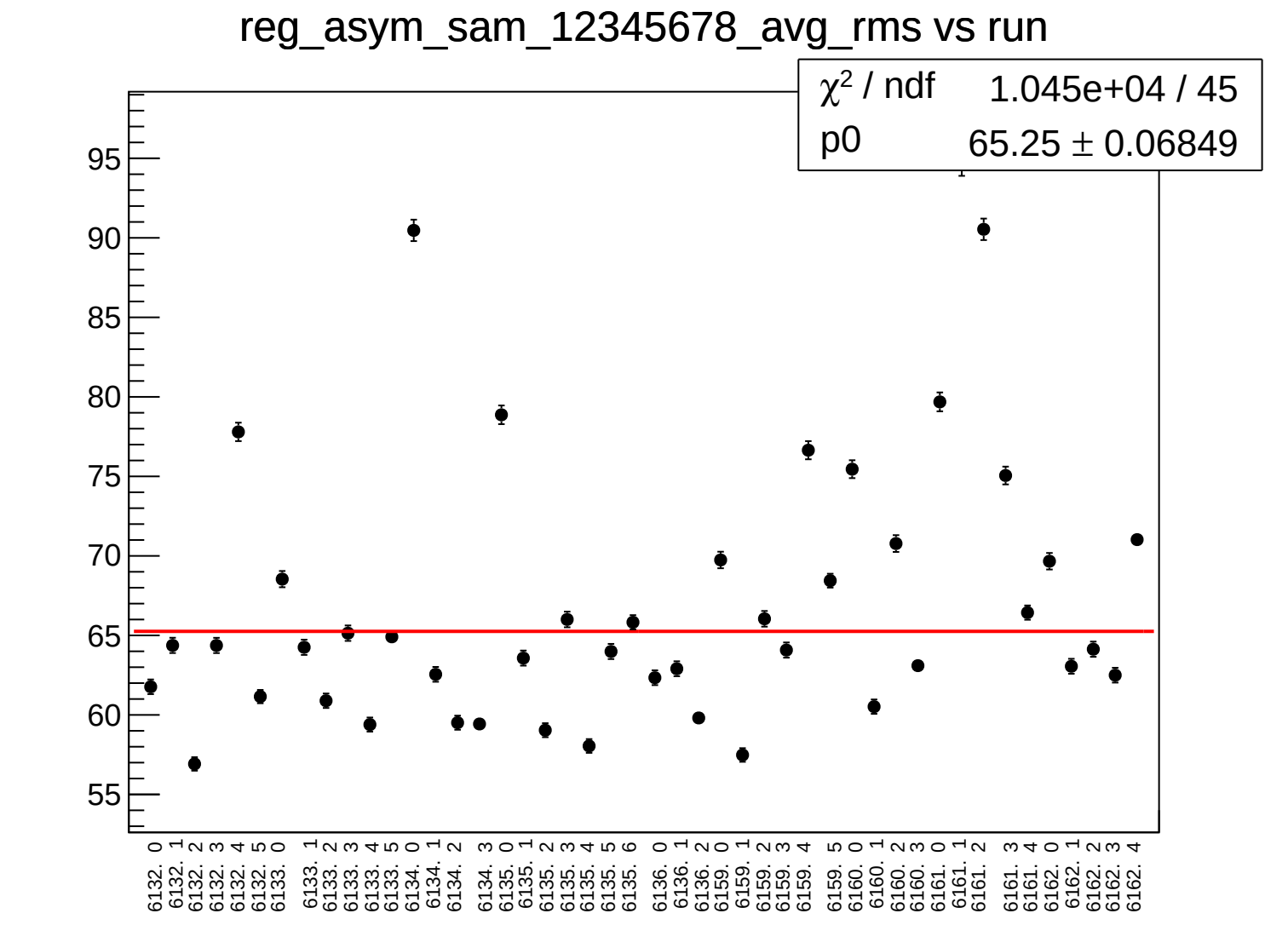

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.29 / 45
p0 7.883e−15 ± 1.949e−14
pull
Entries 46
Mean 46.27
Std Dev 0

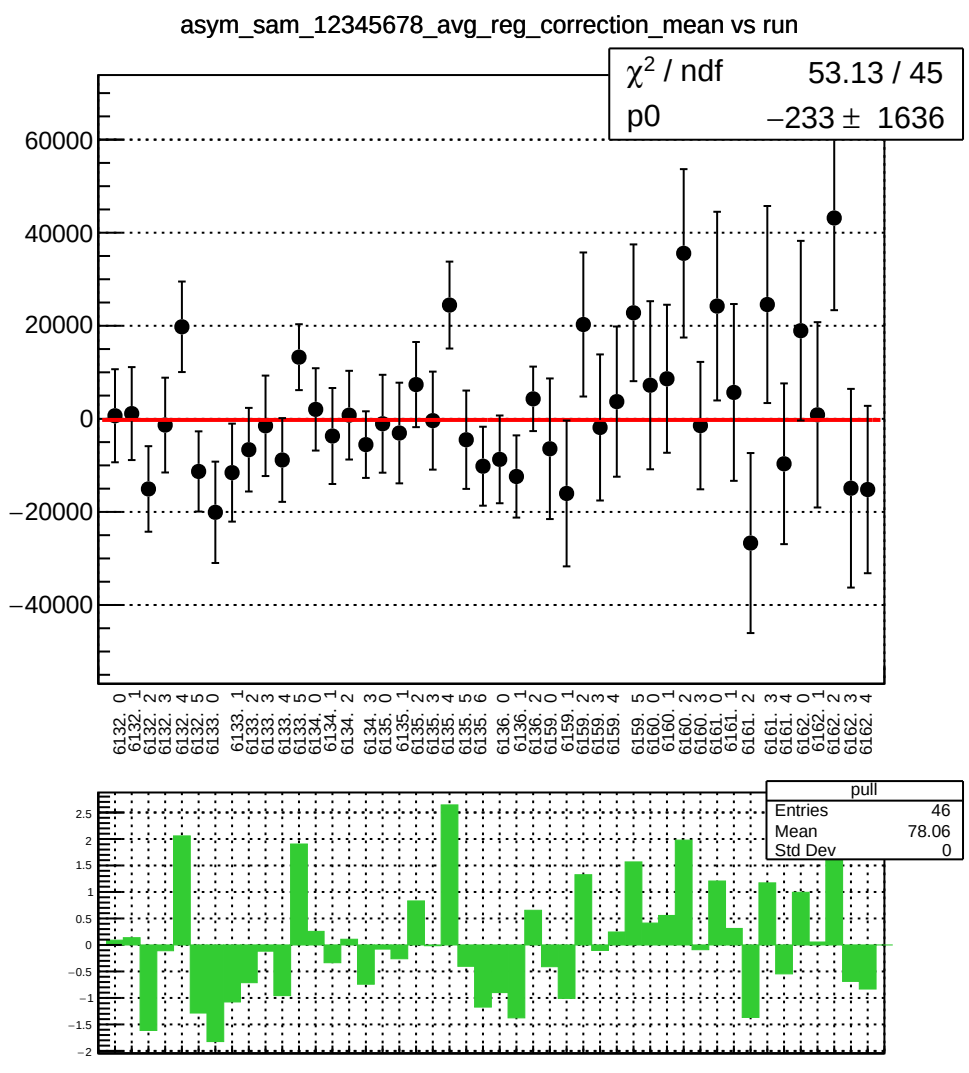

pull1D
Entries 46
Mean 0.07399
Std Dev 0.9784

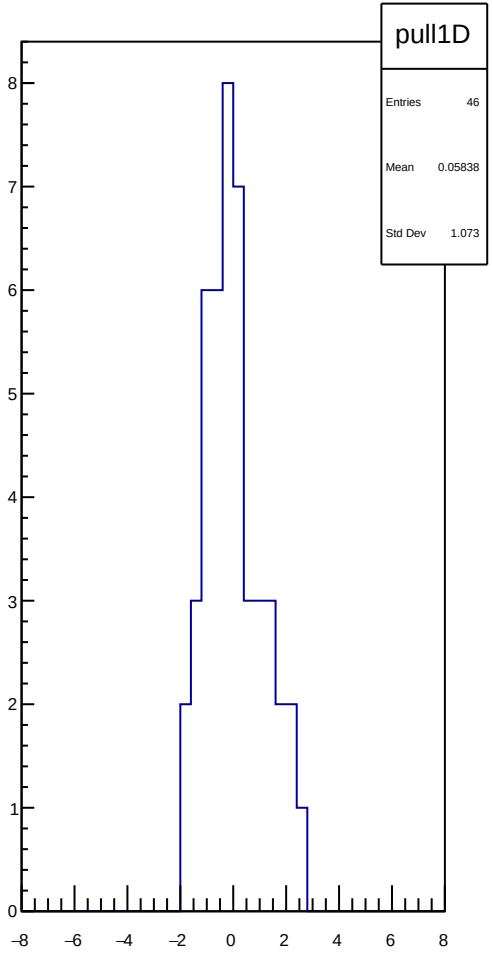

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.029e+05 / 45
p0 8.882e−12 ± 1.378e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

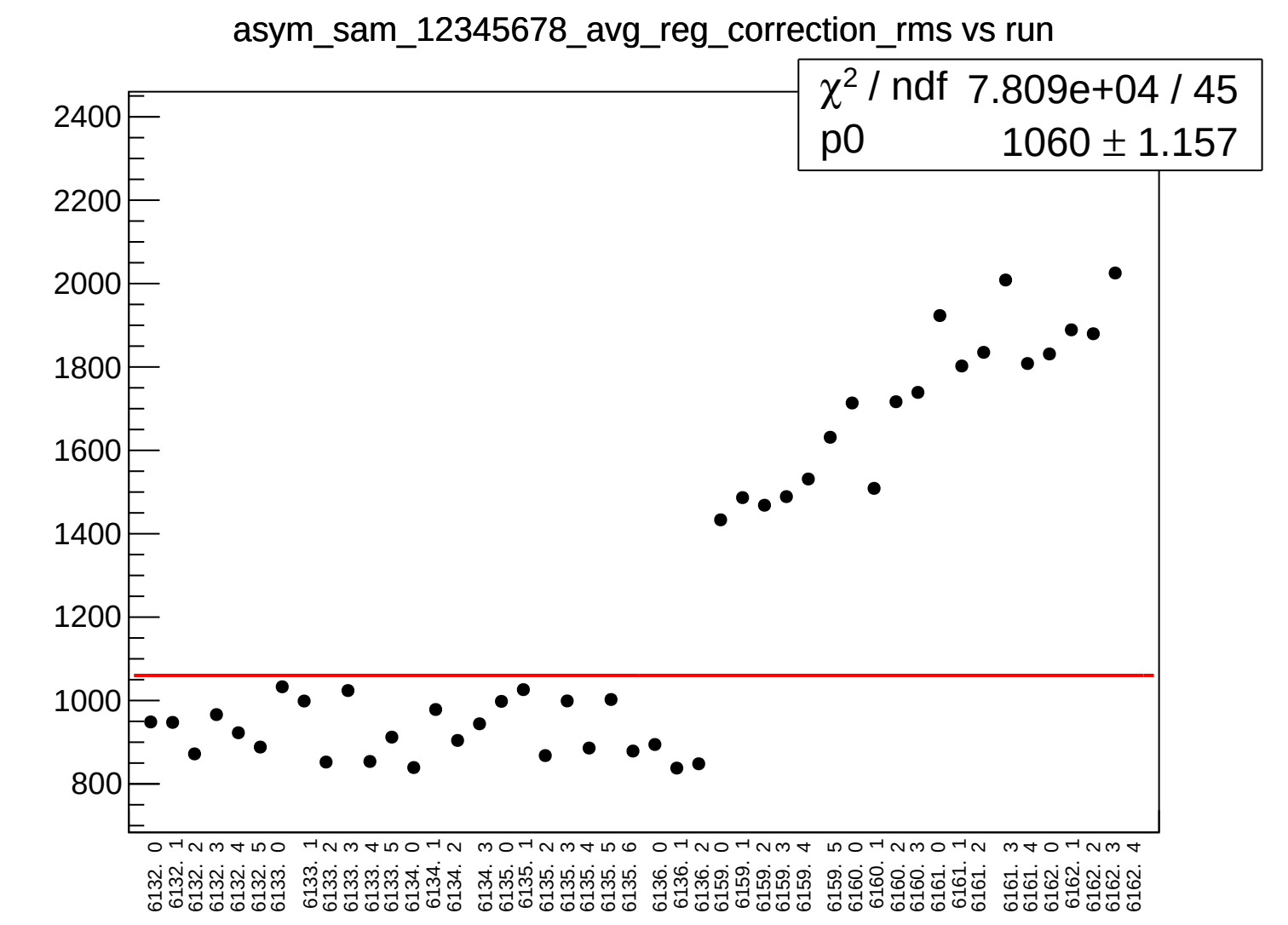

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 58.75 / 45
p0 32.64 ± 96.86
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 305.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.006049
Std Dev 1.13
9
8
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
χ² / ndf 1.045e+04 / 45
p0 65.25 ± 0.06849
95
90
85
80
75
70
65
60
55
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 53.13 / 45
p0 −233 ± 1636
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 78.06
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.05838
Std Dev 1.073
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 7.809e+04 / 45
p0 1060 ± 1.157
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
6161. 3
6161. 4
6162. 0
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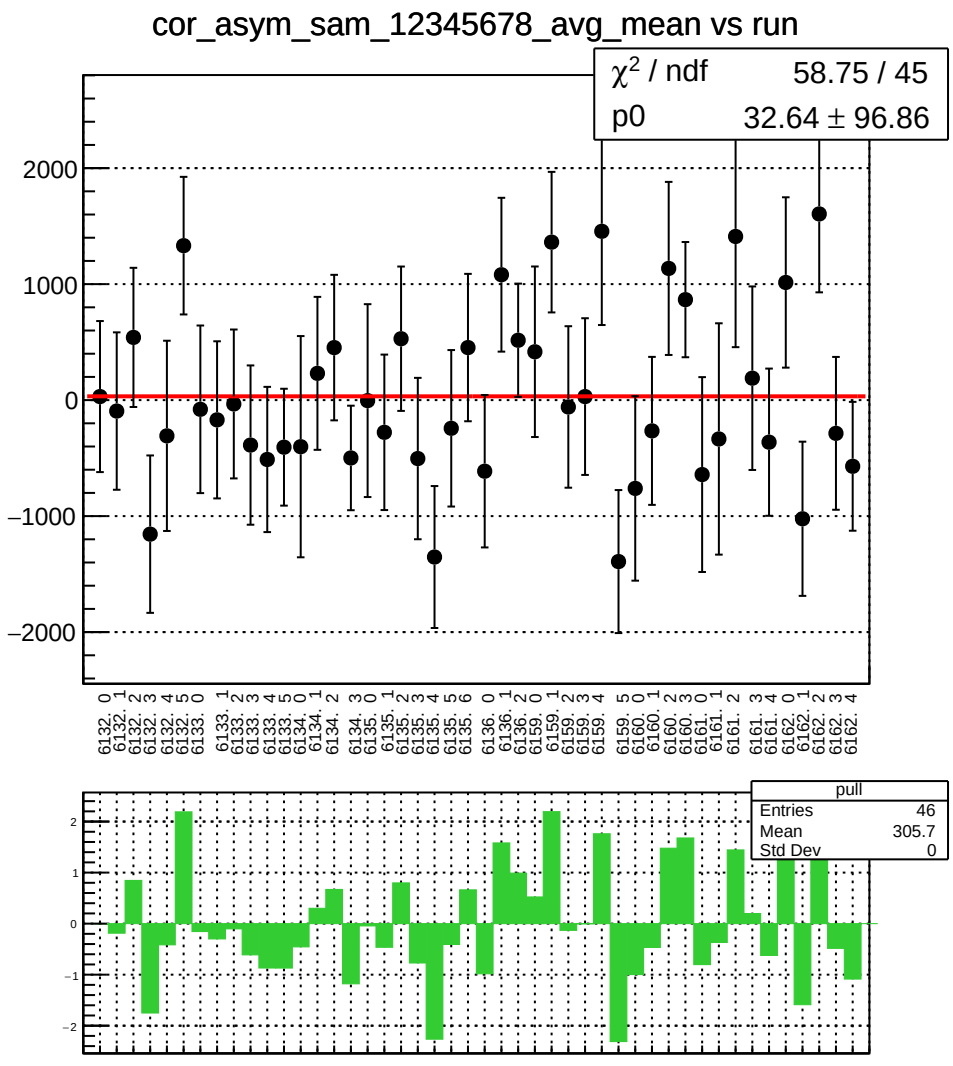
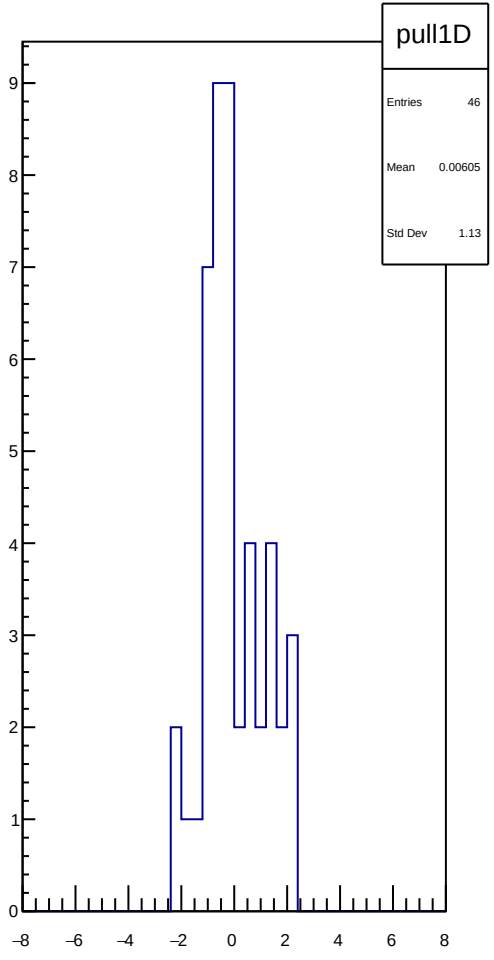
6162. 4


cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 58.75 / 45
p0 32.64 ± 96.86
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 305.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.00605
Std Dev 1.13
9
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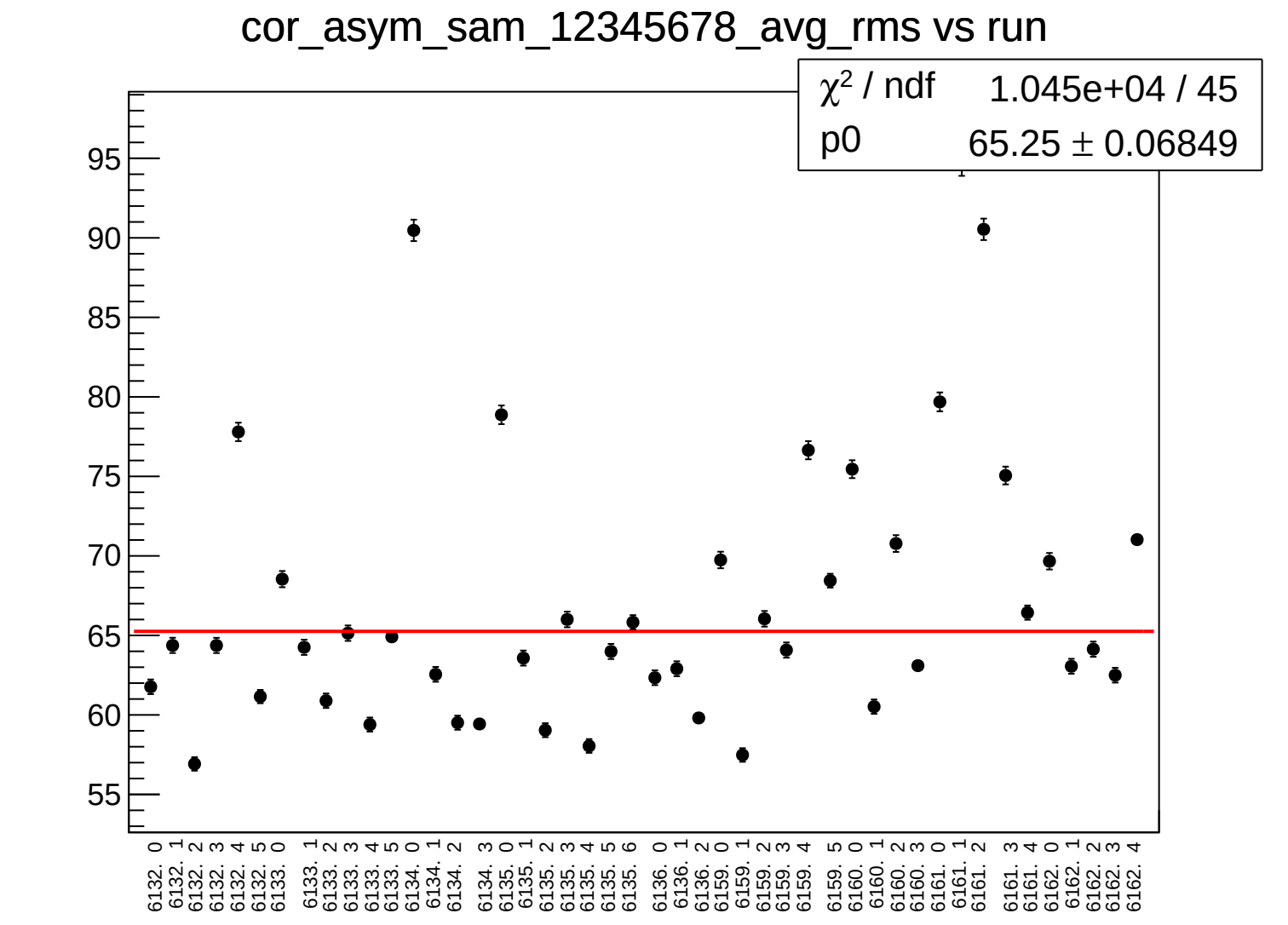
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.045e+04 / 45
p0 65.25 ± 0.06849
95
90
85
80
75
70
65
60
55
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
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6161. 4
6162. 0
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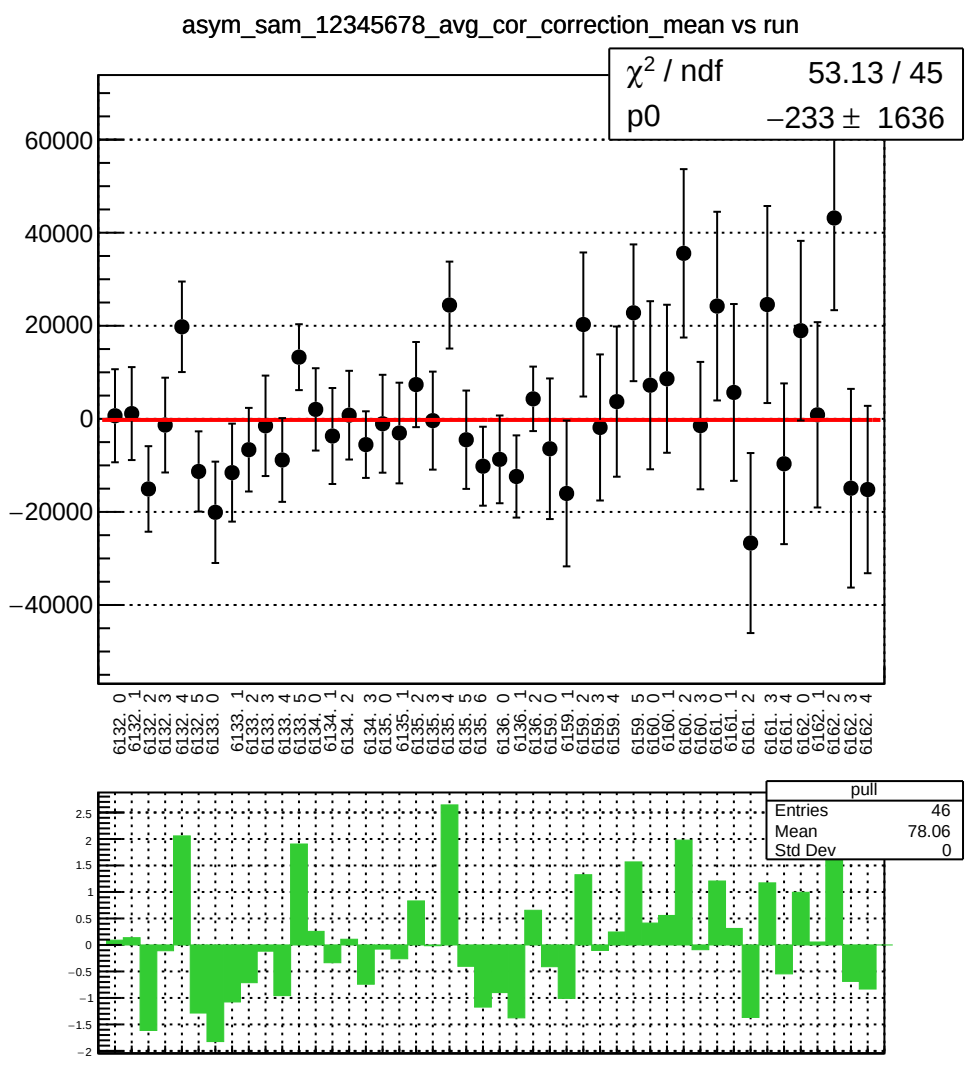
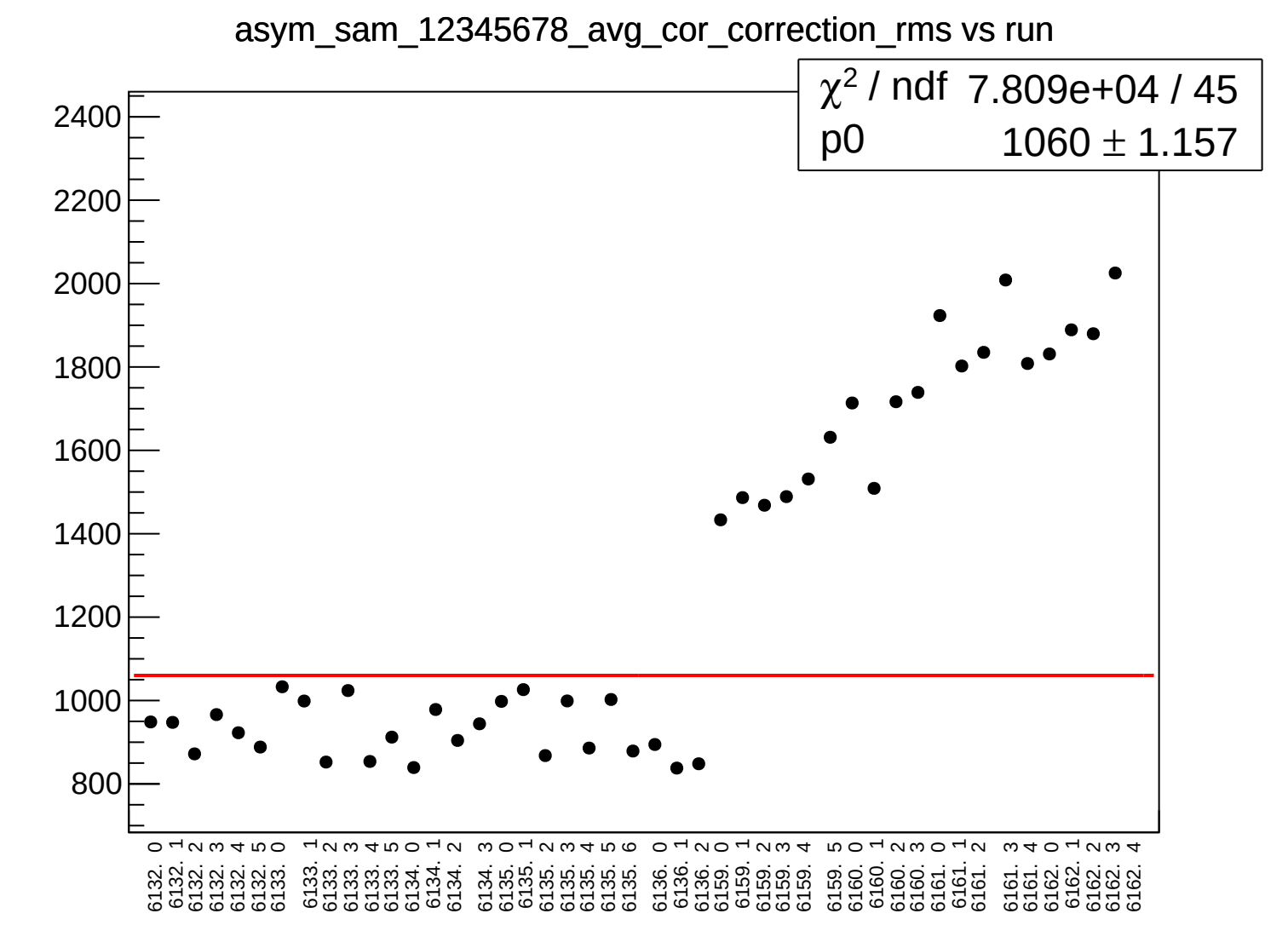
6162. 2
6162. 3
6162. 4


asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 53.13 / 45
p0 −233 ± 1636
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 78.06
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.05838
Std Dev 1.073
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 7.809e+04 / 45
p0 1060 ± 1.157
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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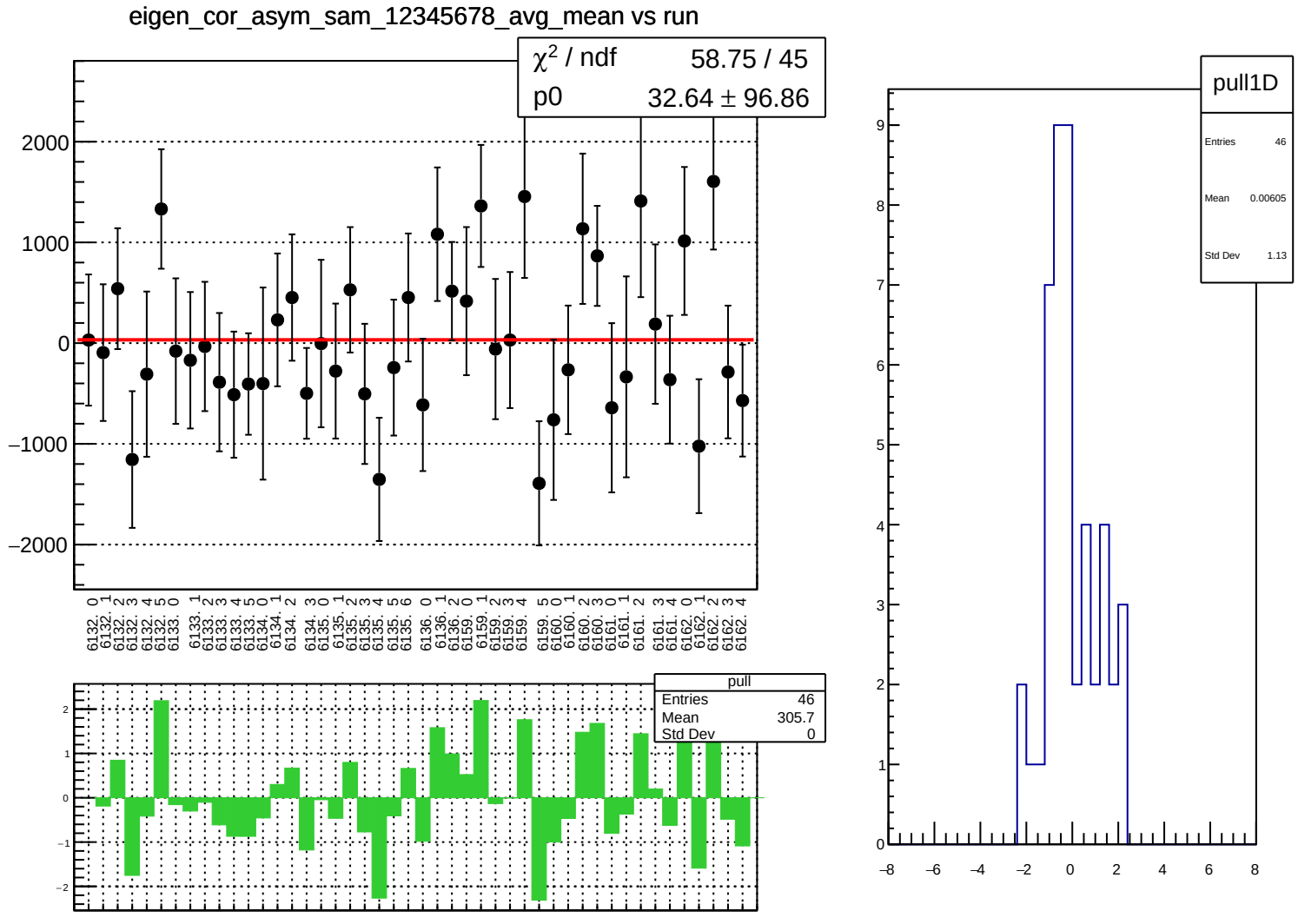
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 58.75 / 45
p0 32.64 ± 96.86
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
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. 2
6159. 3
6159. 4
6159. 5
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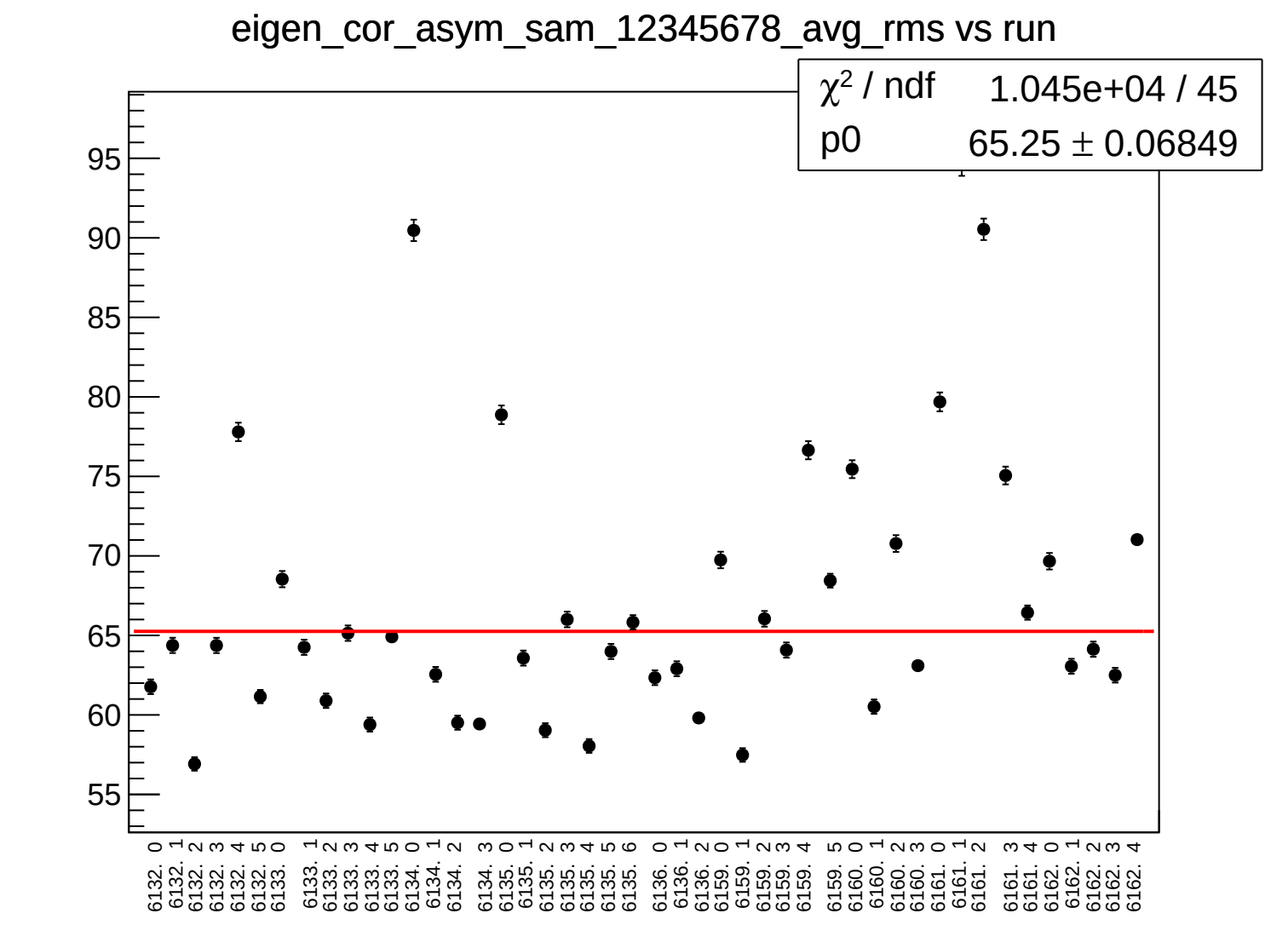
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 305.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.00605
Std Dev 1.13
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.045e+04 / 45
p0 65.25 ± 0.06849
95
90
85
80
75
70
65
60
55
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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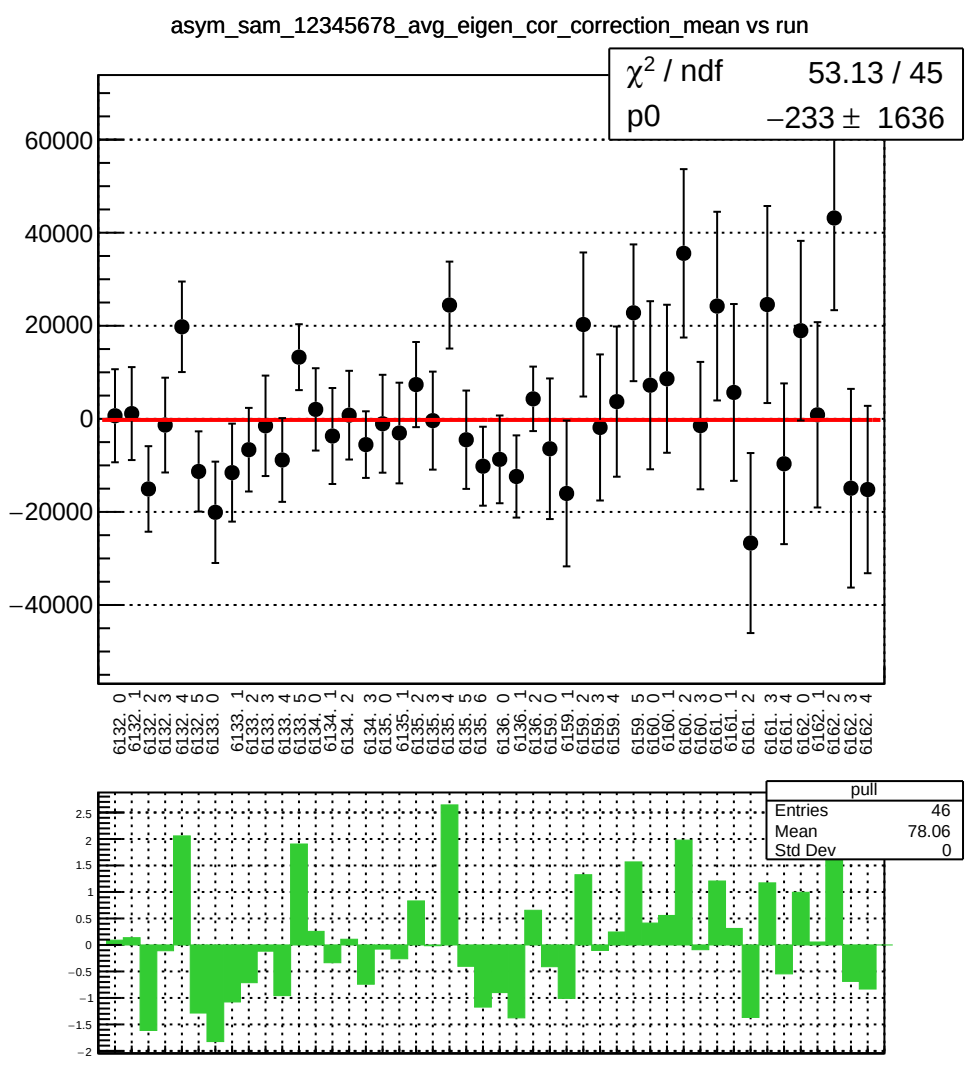
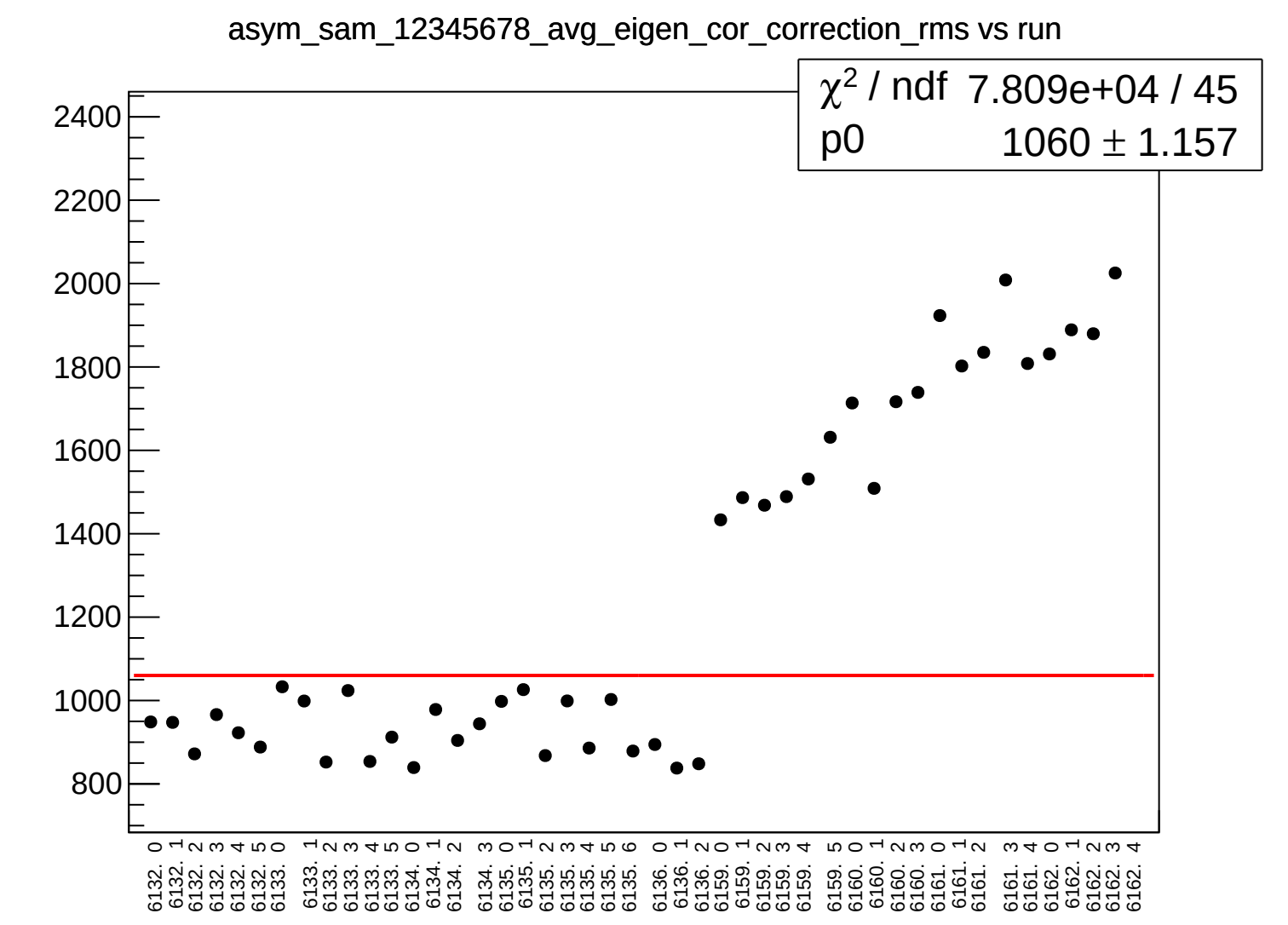
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 53.13 / 45
p0 −233 ± 1636
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 78.06
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.05838
Std Dev 1.073
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 7.809e+04 / 45
p0 1060 ± 1.157
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
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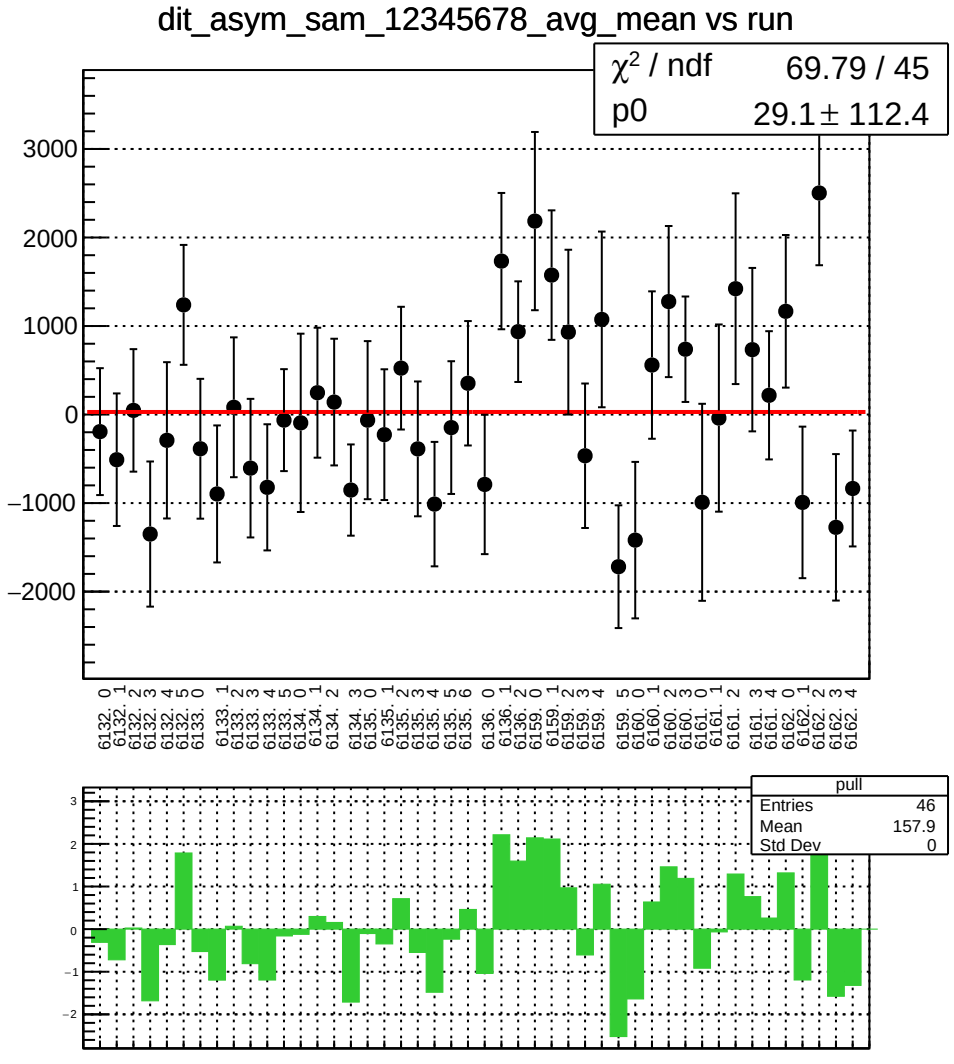
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4


dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 69.79 / 45
p0 29.1 ± 112.4
3000
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
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6135. 3
6135. 4
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6135. 6
6136. 0
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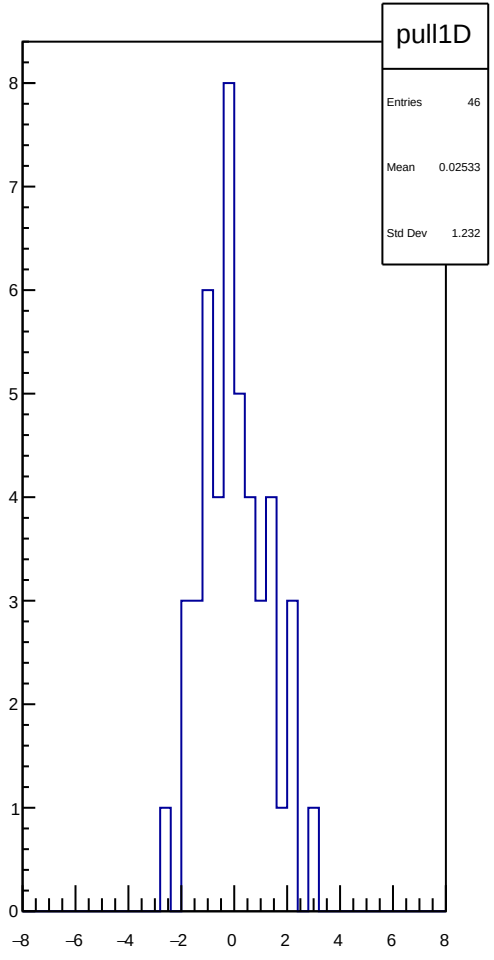
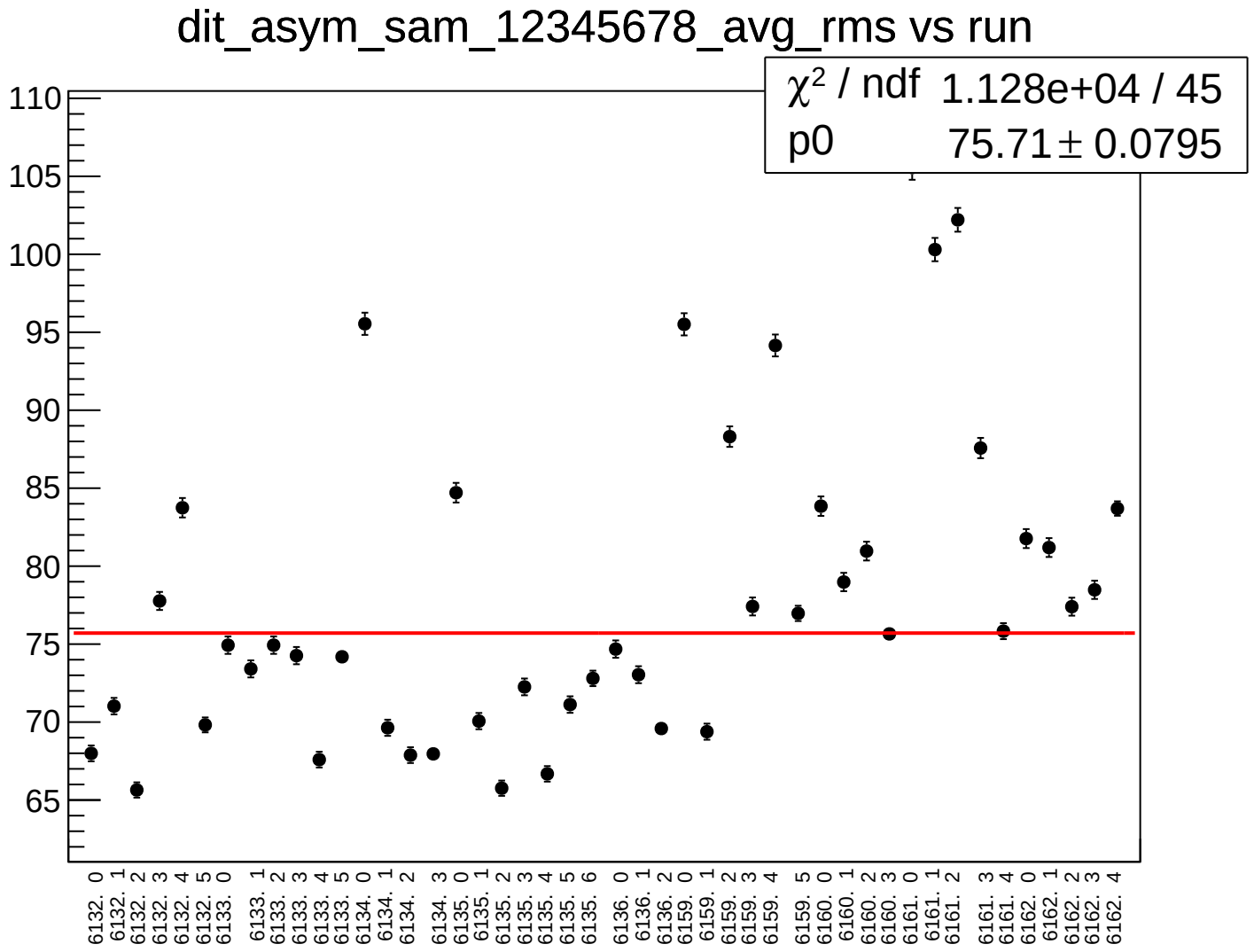
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 157.9
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.02533
Std Dev 1.232
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.128e+04 / 45
p0 75.71 ± 0.0795
110
105
100
95
90
85
80
75
70
65
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
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6133. 2
6133. 3
6133. 4
6133. 5
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6135. 2
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6135. 4
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6135. 6
6136. 0
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6136. 2
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6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
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6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
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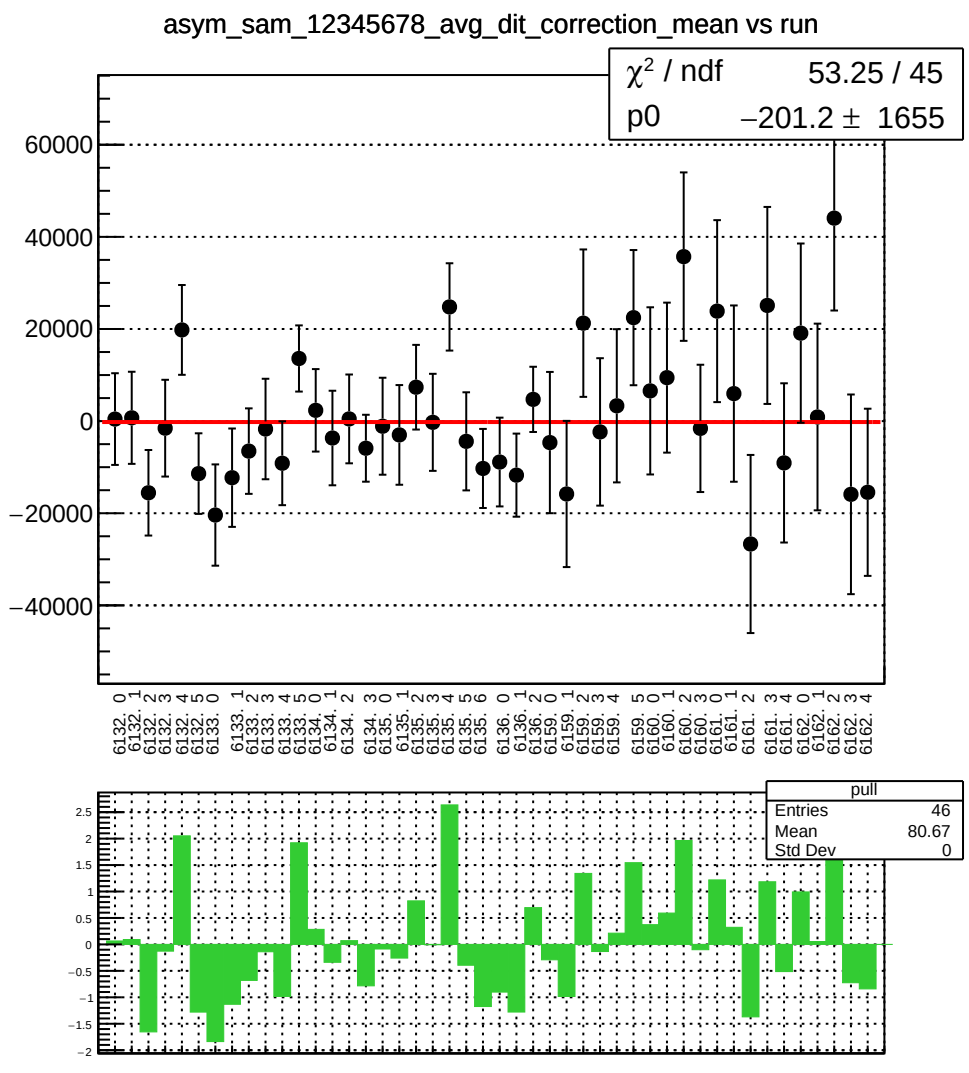
6162. 4


asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 53.25 / 45
p0 −201.2 ± 1655
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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6159. 4
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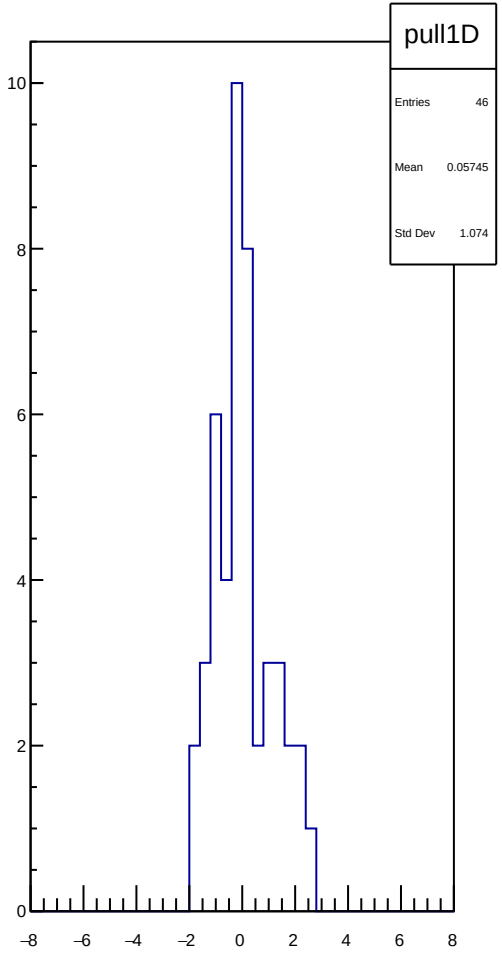
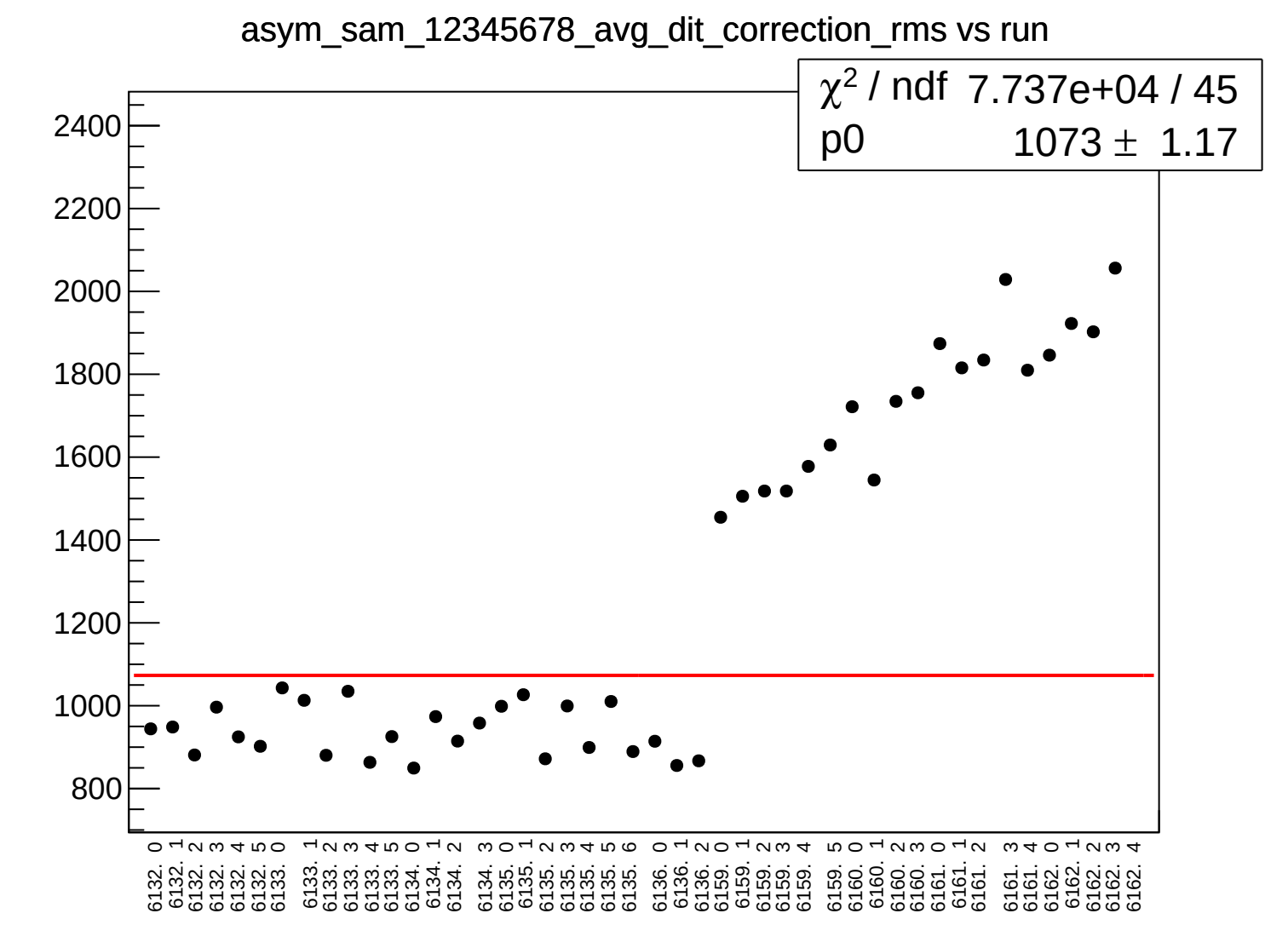
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 80.67
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean 0.05745
Std Dev 1.074
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 7.737e+04 / 45
p0 1073 ± 1.17
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
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6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
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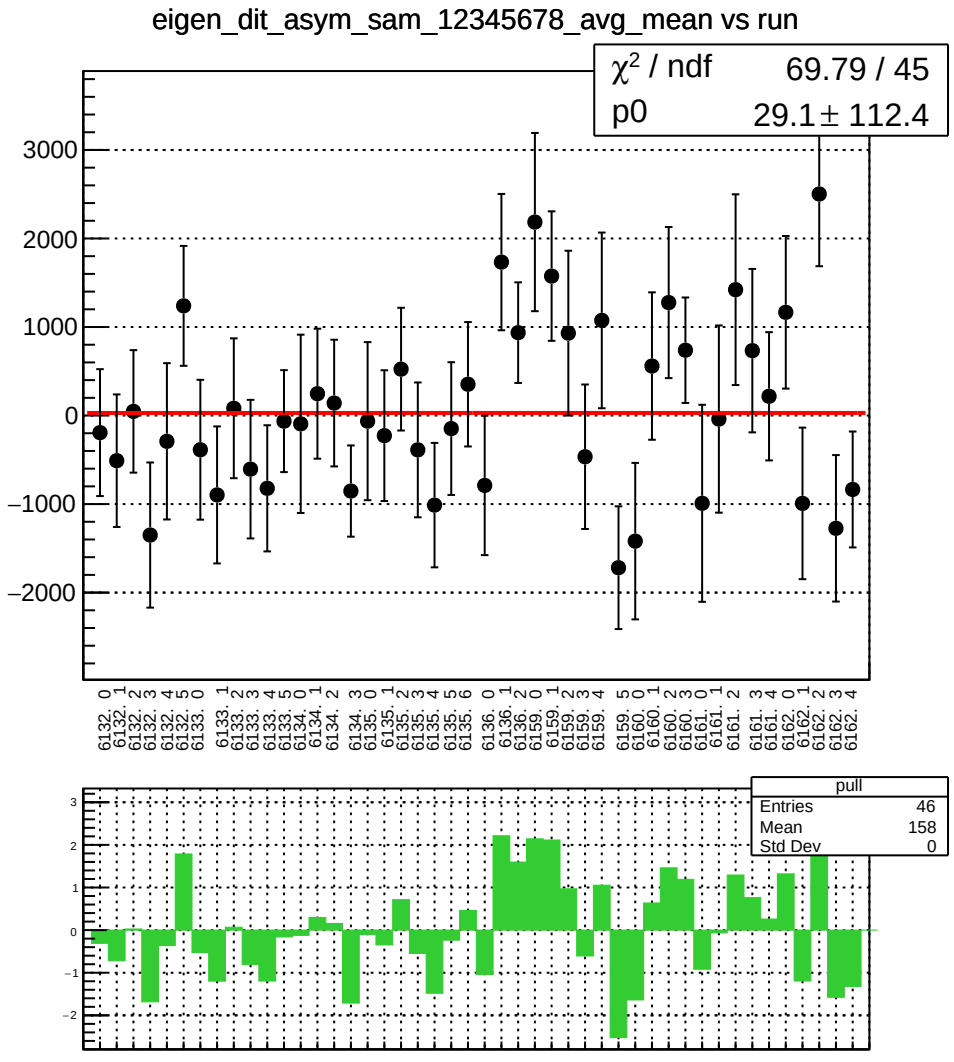
6162. 4


eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 69.79 / 45
p0 29.1 ± 112.4
3000
2000
1000
0
−1000
−2000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
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6135. 0
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6135. 2
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6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
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6159. 3
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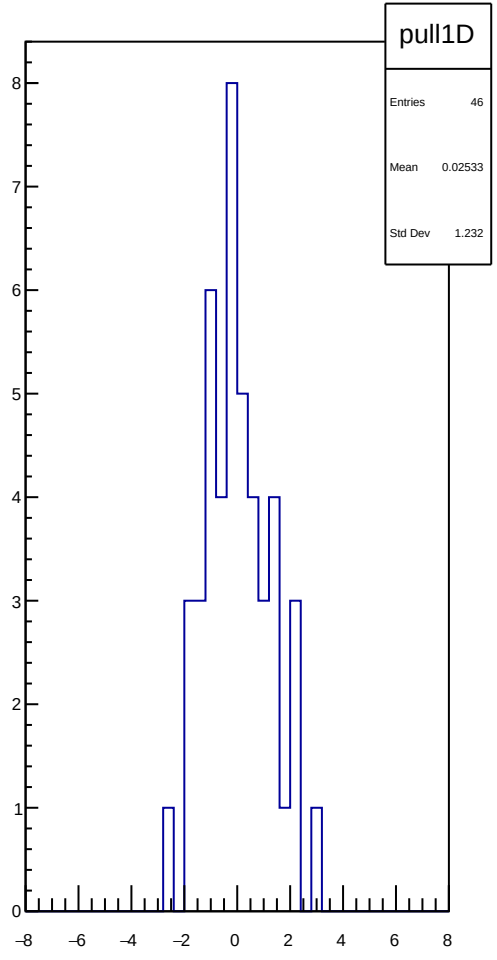
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 158
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 46
Mean 0.02533
Std Dev 1.232
8
7
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5
4
3
2
1
0
−8
−6
−4
−2
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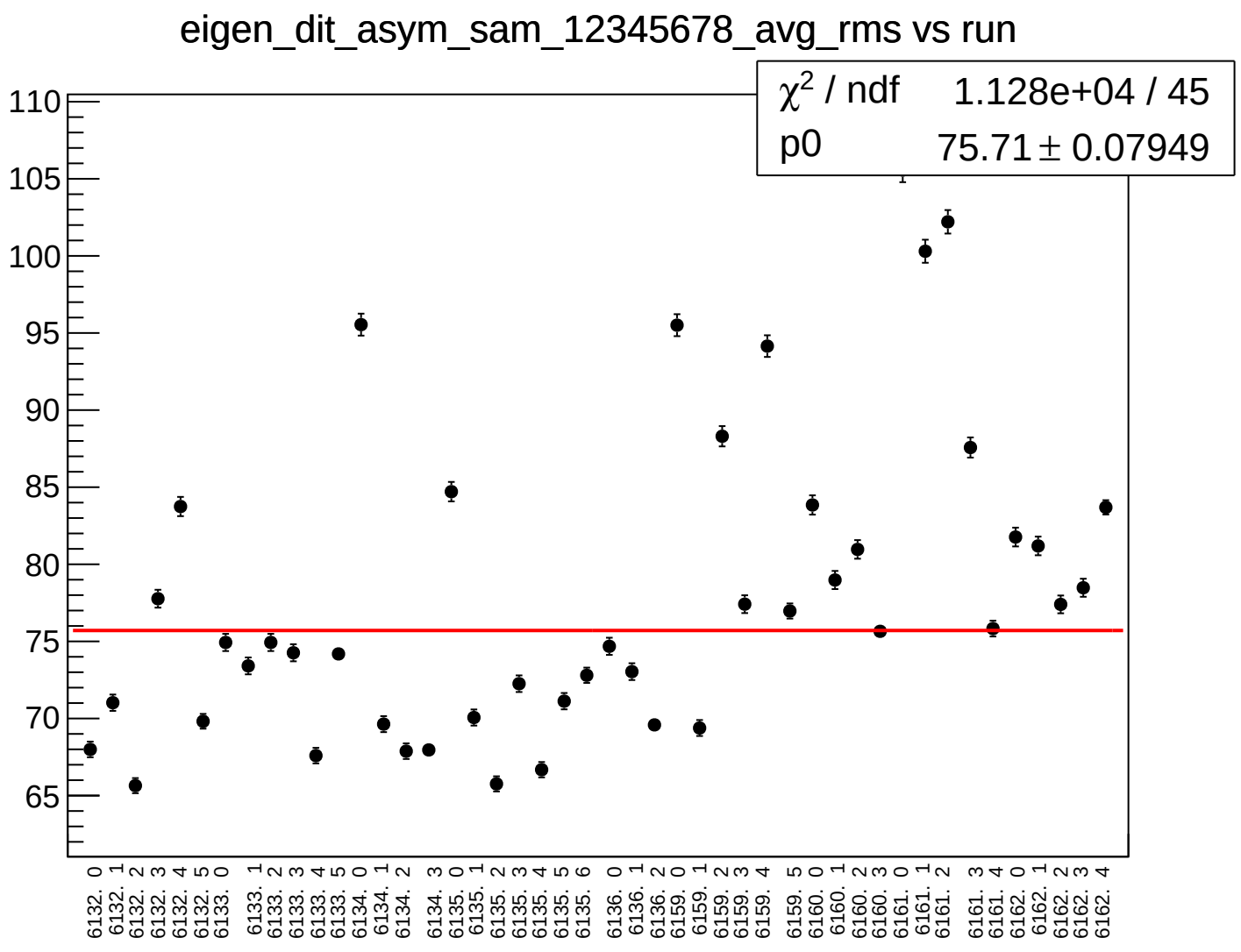
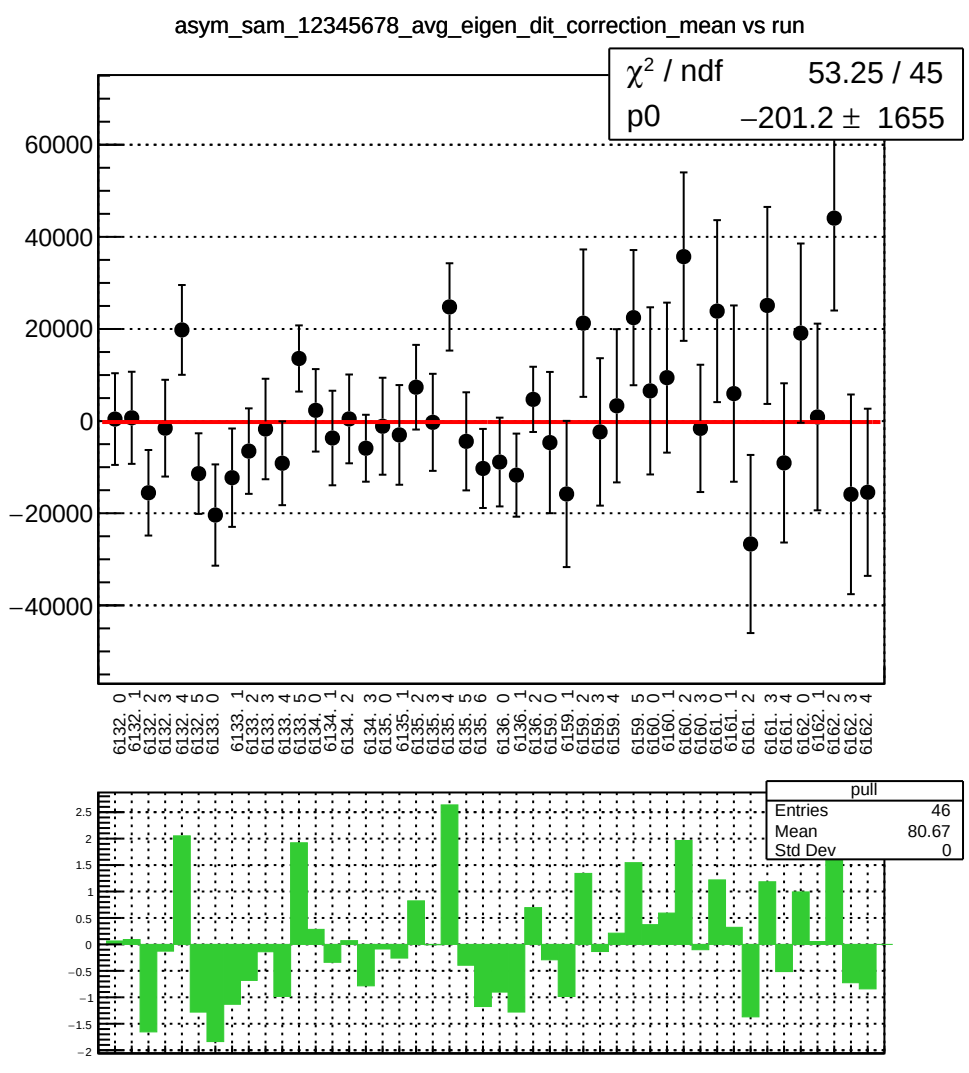
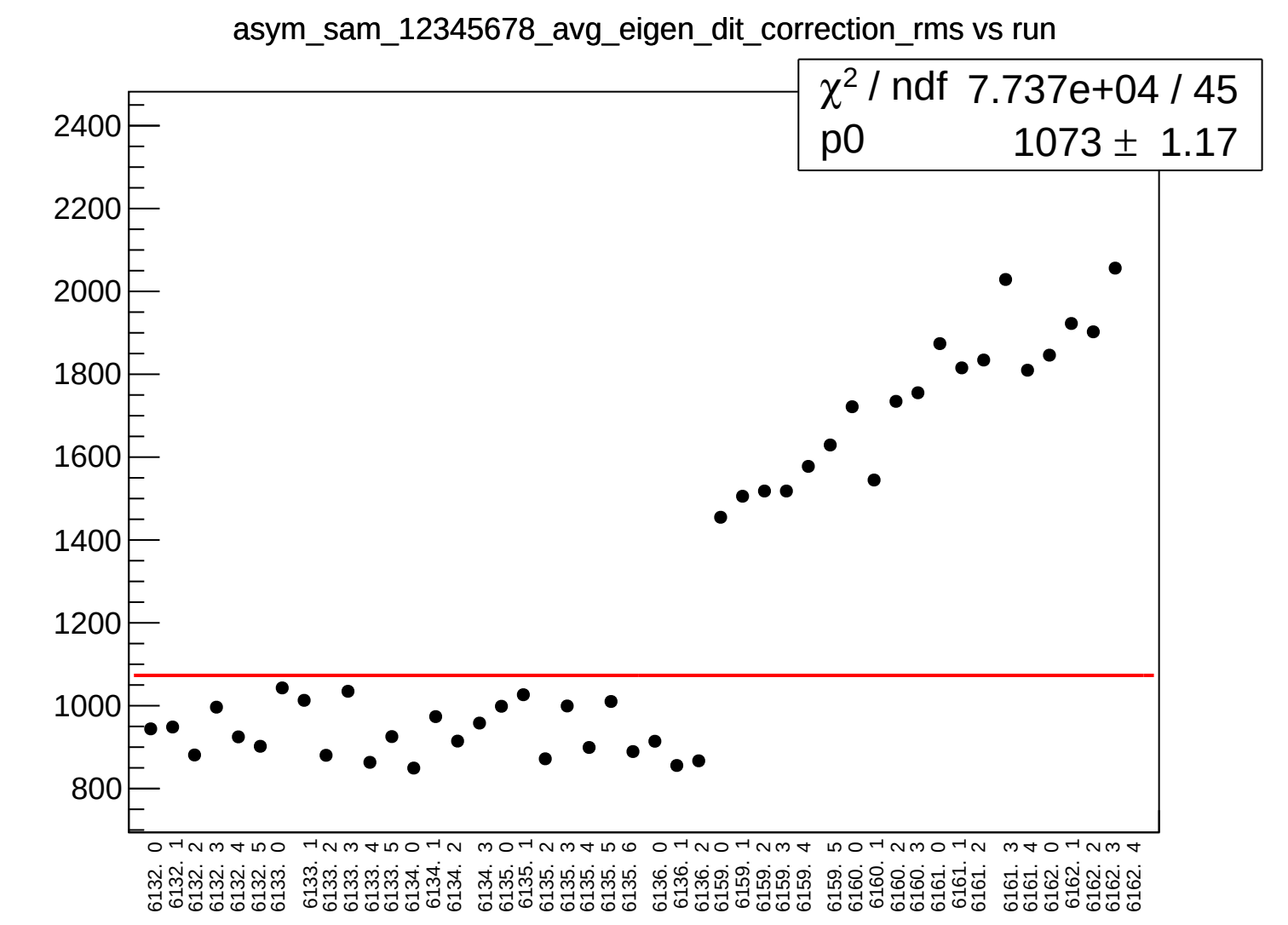
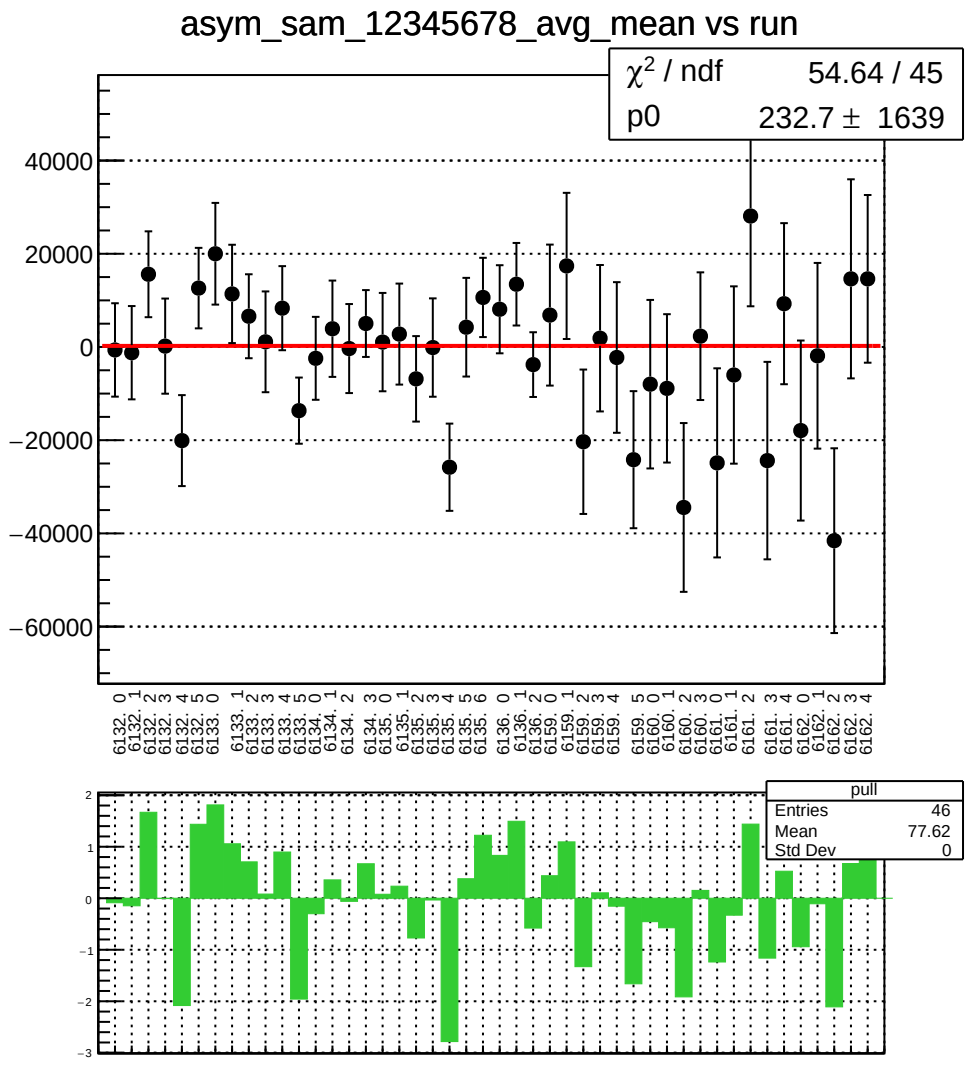
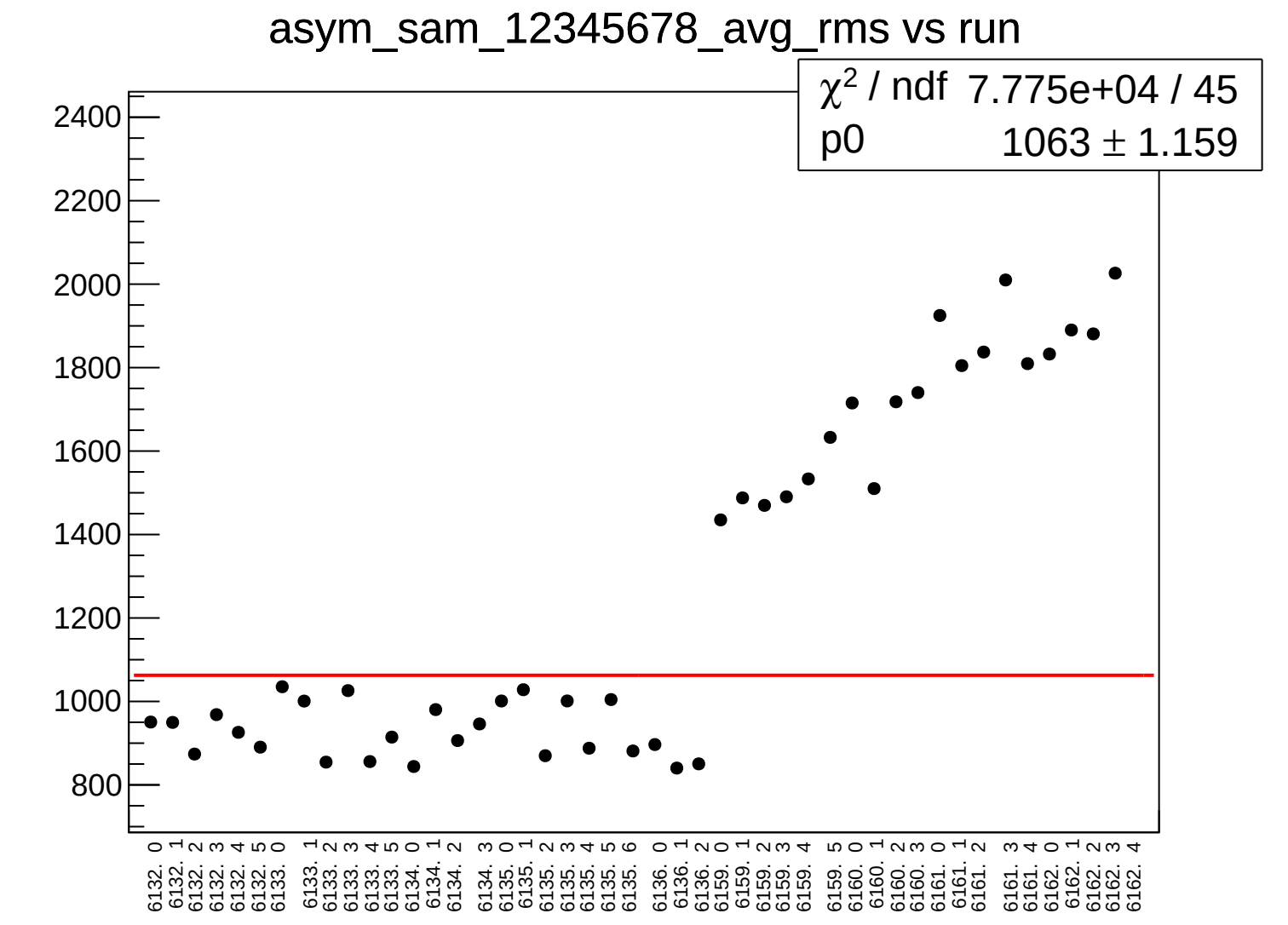
2
4
6
8

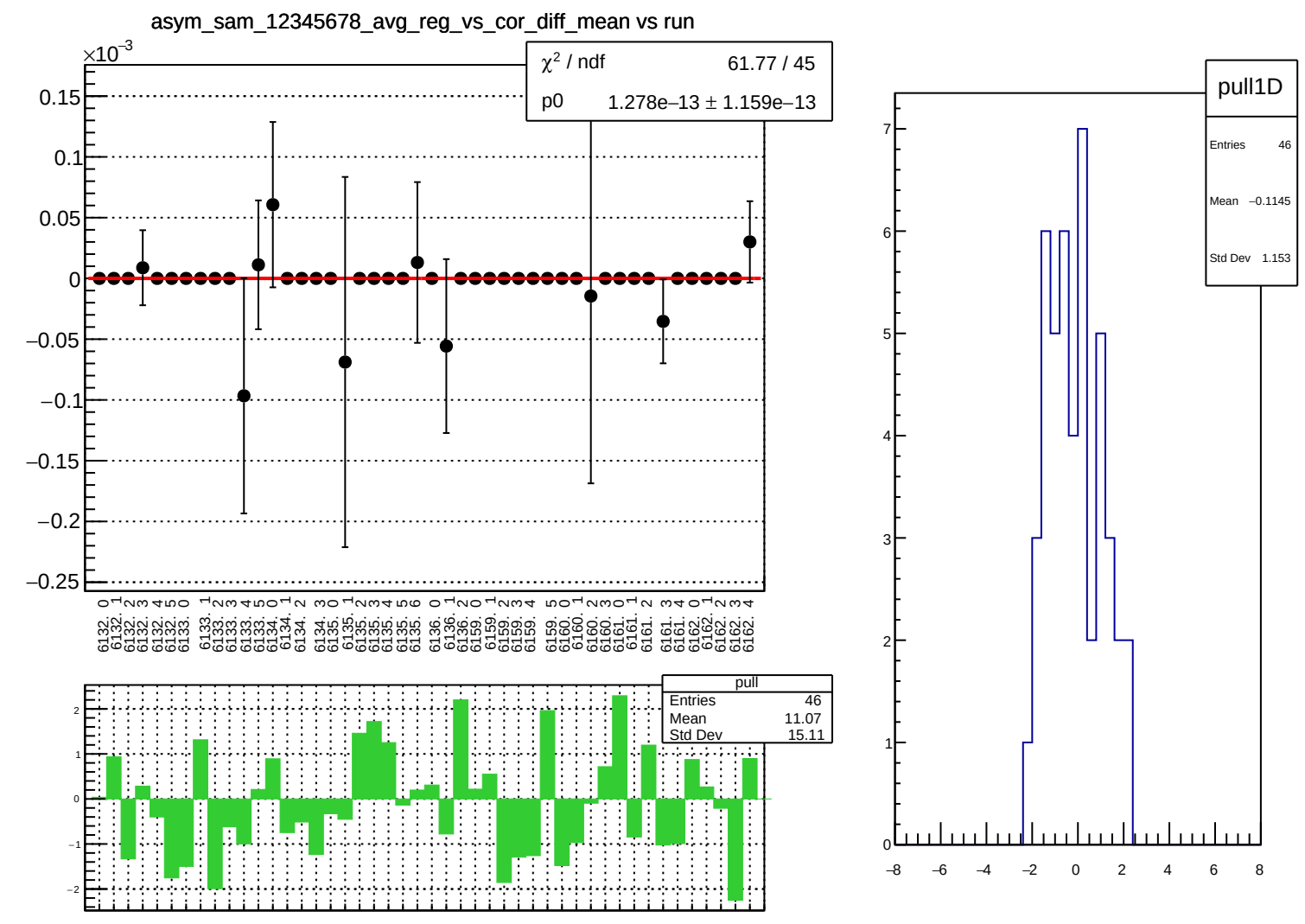

eigen_dit_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 1.128e+04 / 45
p0 75.71 ± 0.07949
110
105
100
95
90
85
80
75
70
65
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

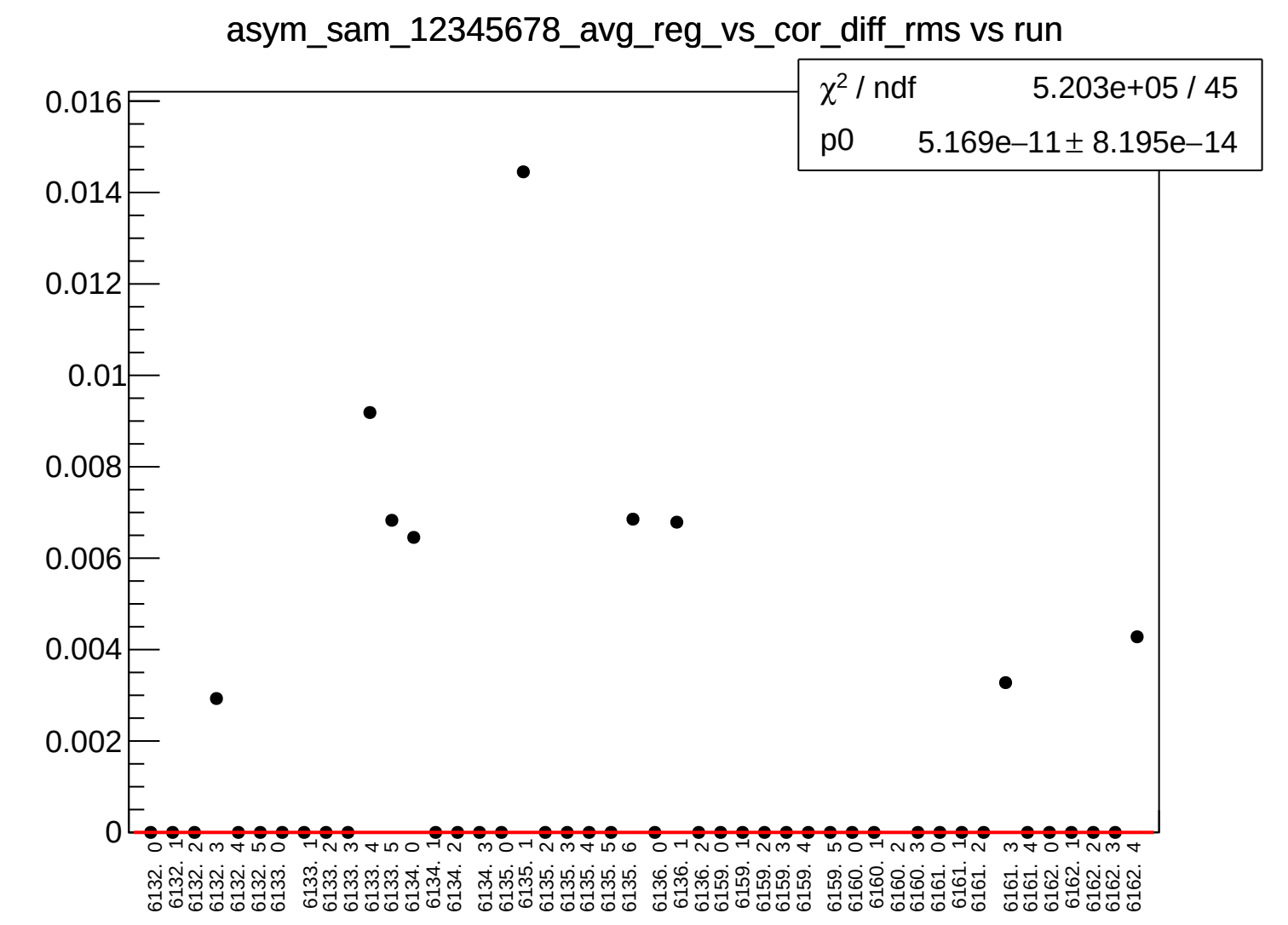

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 53.25 / 45
p0 −201.2 ± 1655
60000
40000
20000
0
−20000
−40000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 80.67
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.05745
Std Dev 1.074
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

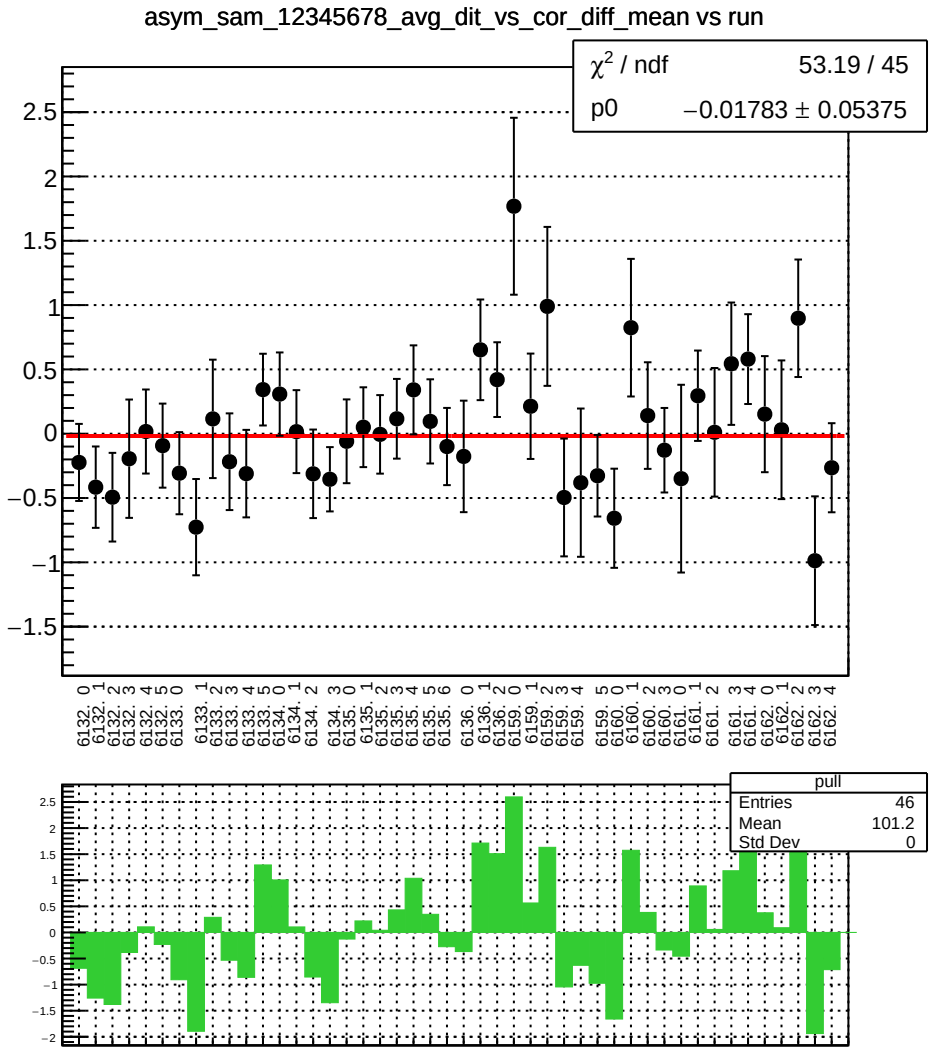

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 7.737e+04 / 45
p0 1073 ± 1.17
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

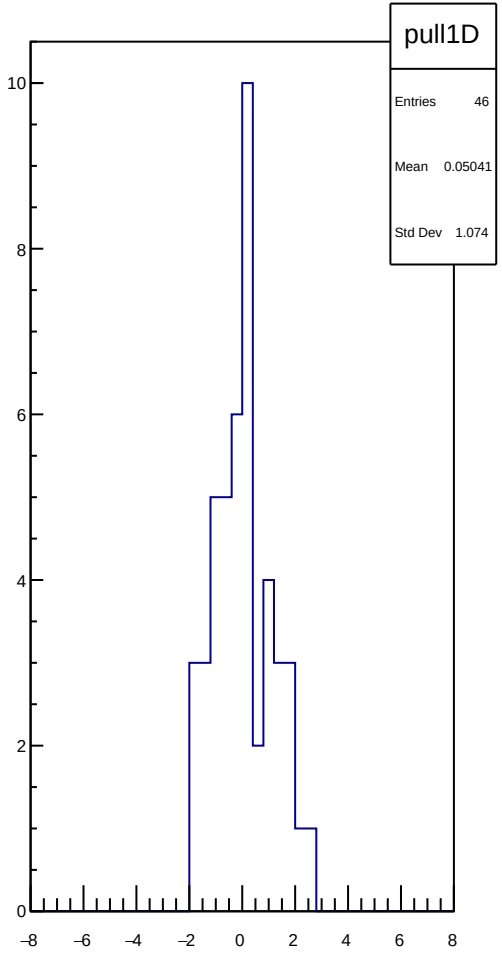

asym_sam_12345678_avg_mean vs run
χ² / ndf 54.64 / 45
p0 232.7 ± 1639
40000
20000
0
−20000
−40000
−60000
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 77.62
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.05698
Std Dev 1.088
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

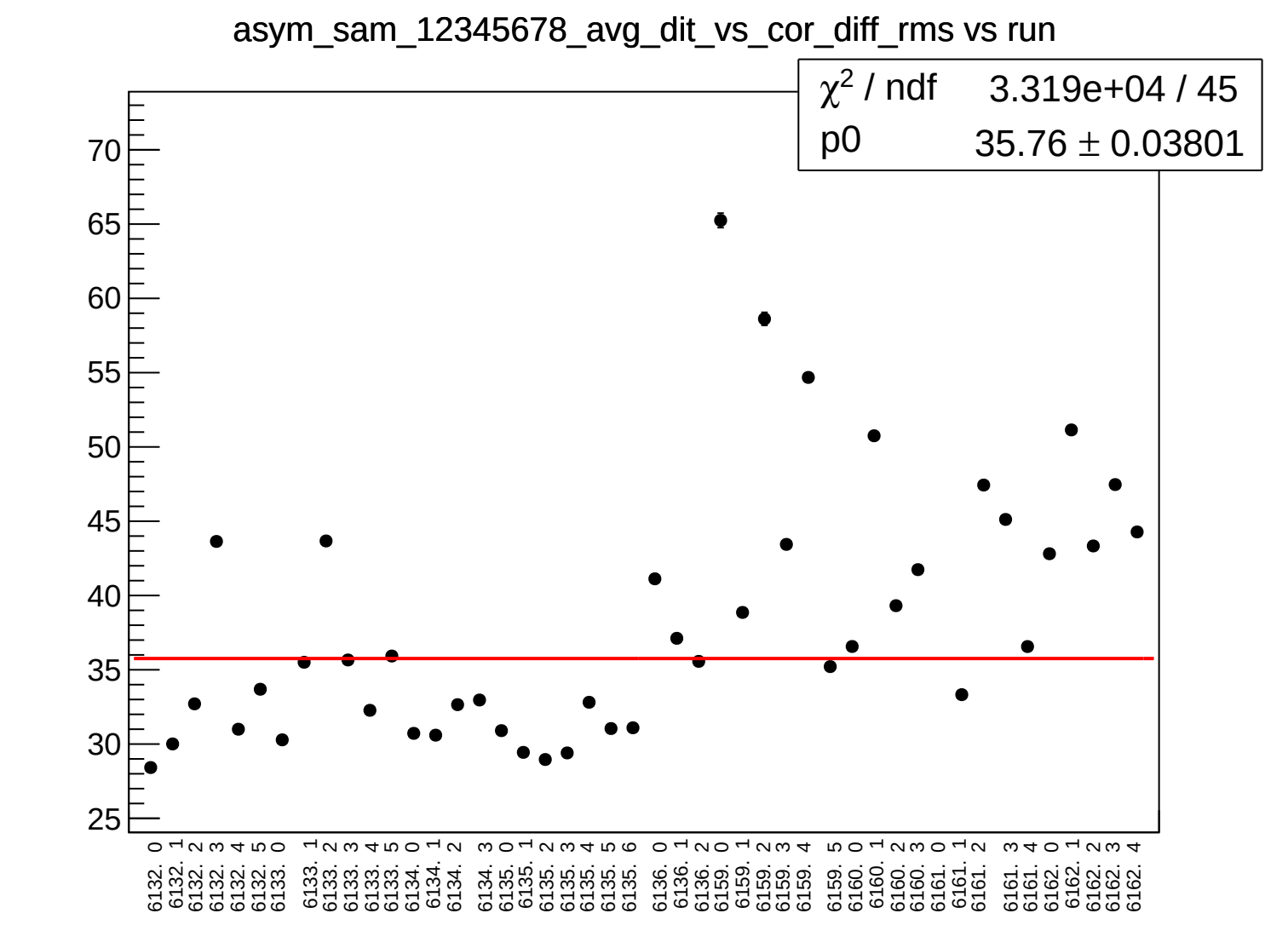

asym_sam_12345678_avg_rms vs run
χ² / ndf 7.775e+04 / 45
p0 1063 ± 1.159
2400
2200
2000
1800
1600
1400
1200
1000
800
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

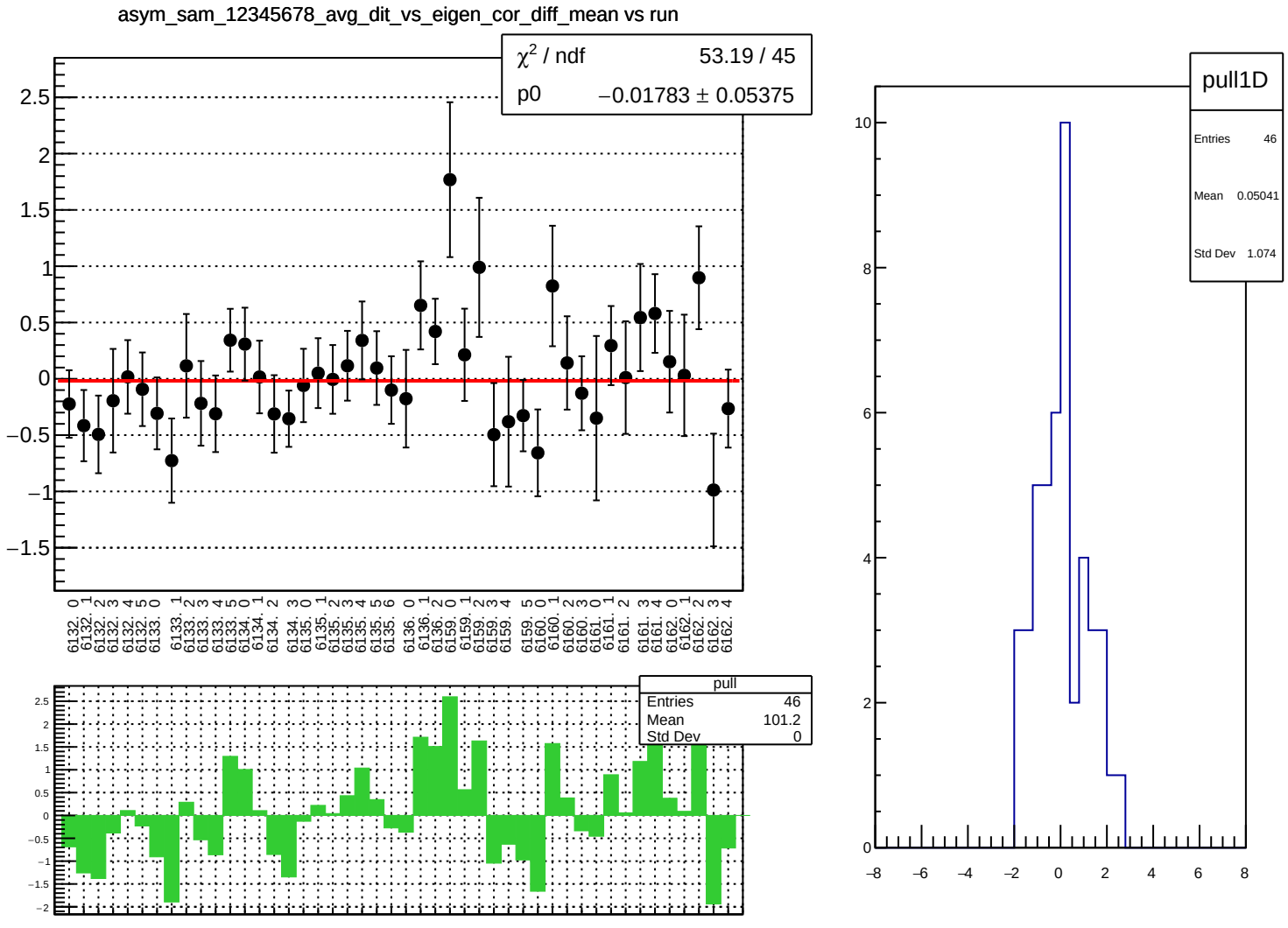

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 61.77 / 45
p0 1.278e−13 ± 1.159e−13
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 11.07
Std Dev 15.11
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.1145
Std Dev 1.153
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

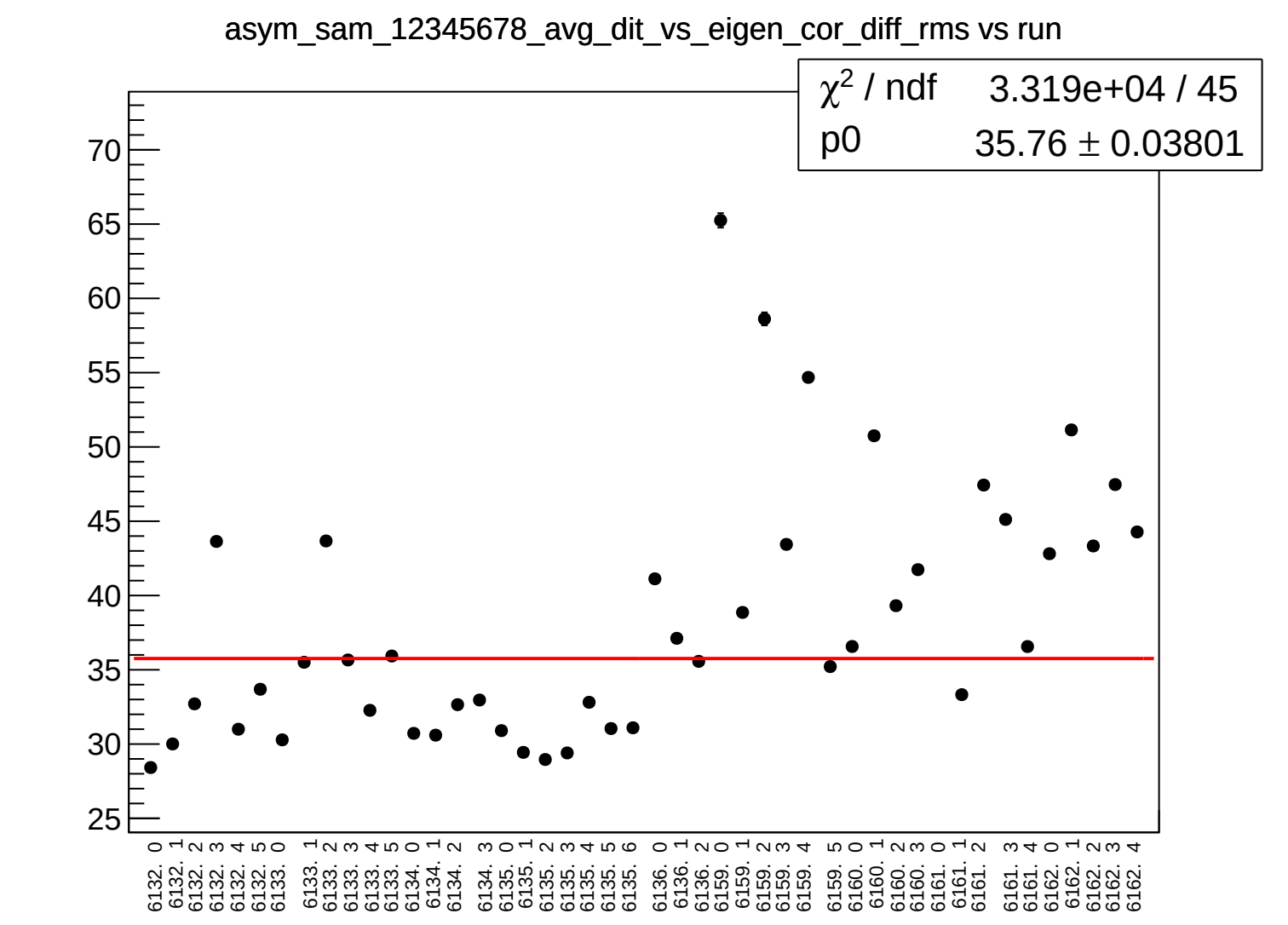

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.203e+05 / 45
p0 5.169e−11 ± 8.195e−14
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

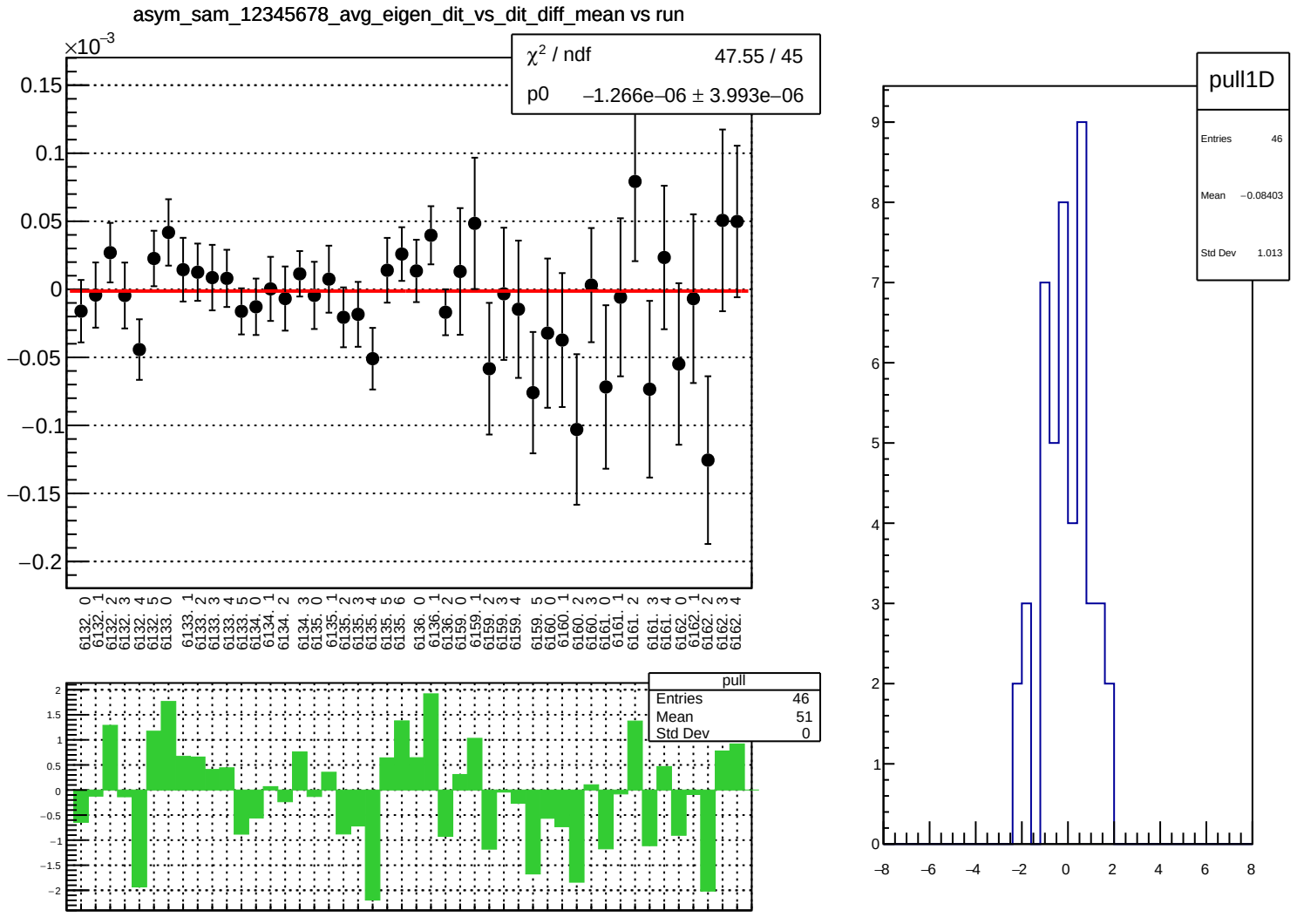

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 53.19 / 45
p0 −0.01783 ± 0.05375
pull
Entries 46
Mean 101.2
Std Dev 0

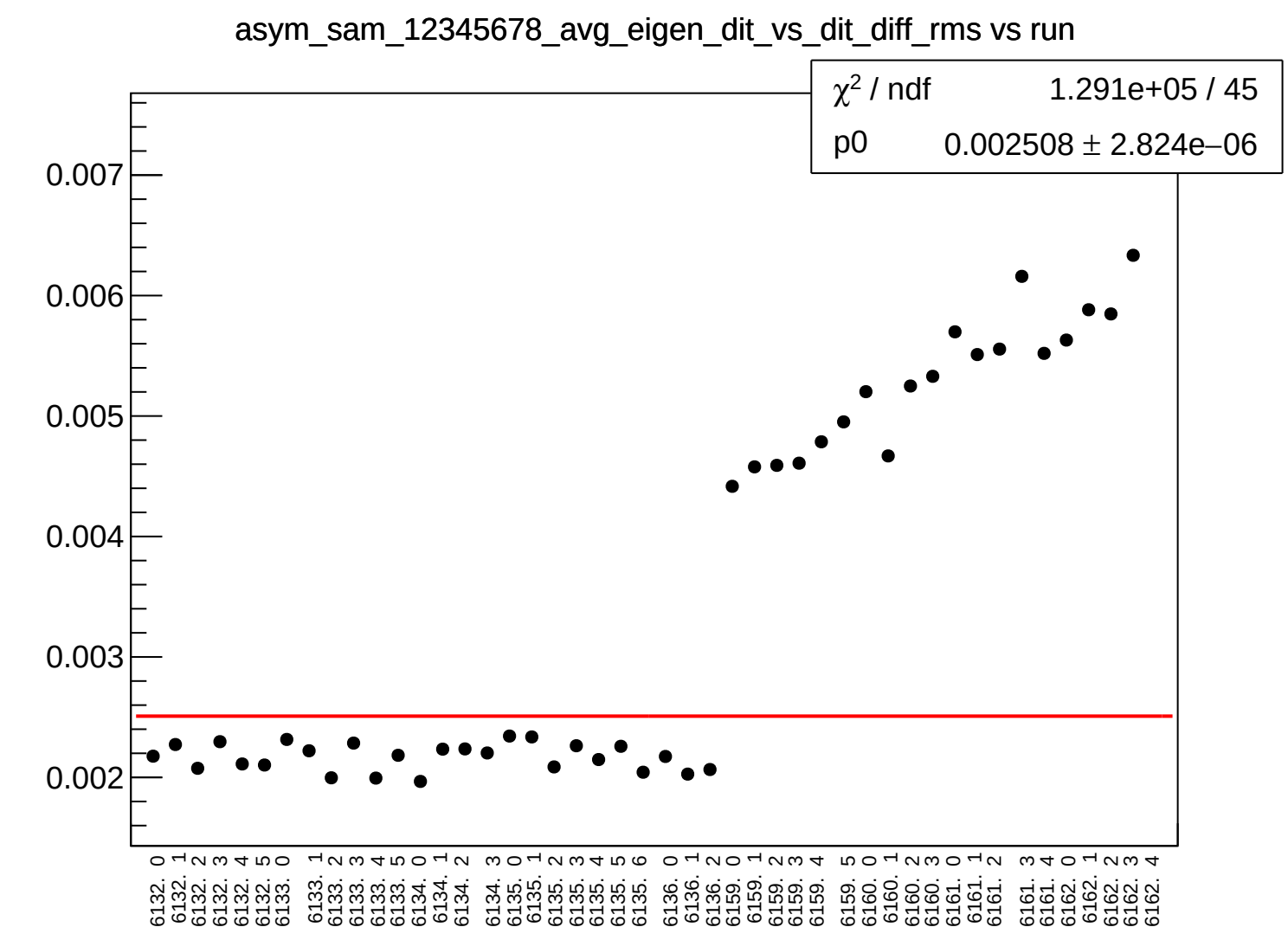

pull1D
Entries 46
Mean 0.05041
Std Dev 1.074

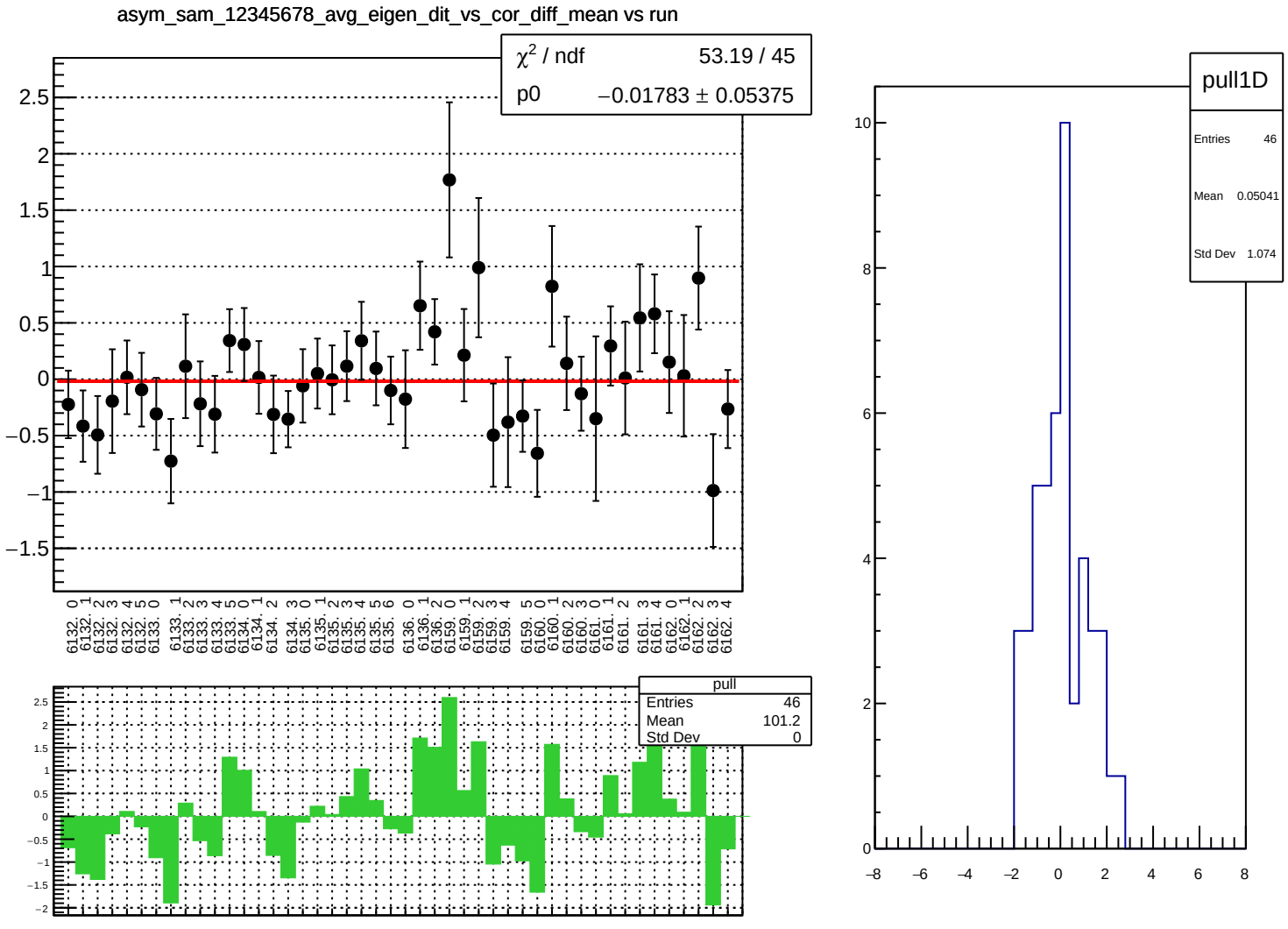

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.319e+04 / 45
p0 35.76 ± 0.03801
70
65
60
55
50
45
40
35
30
25
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

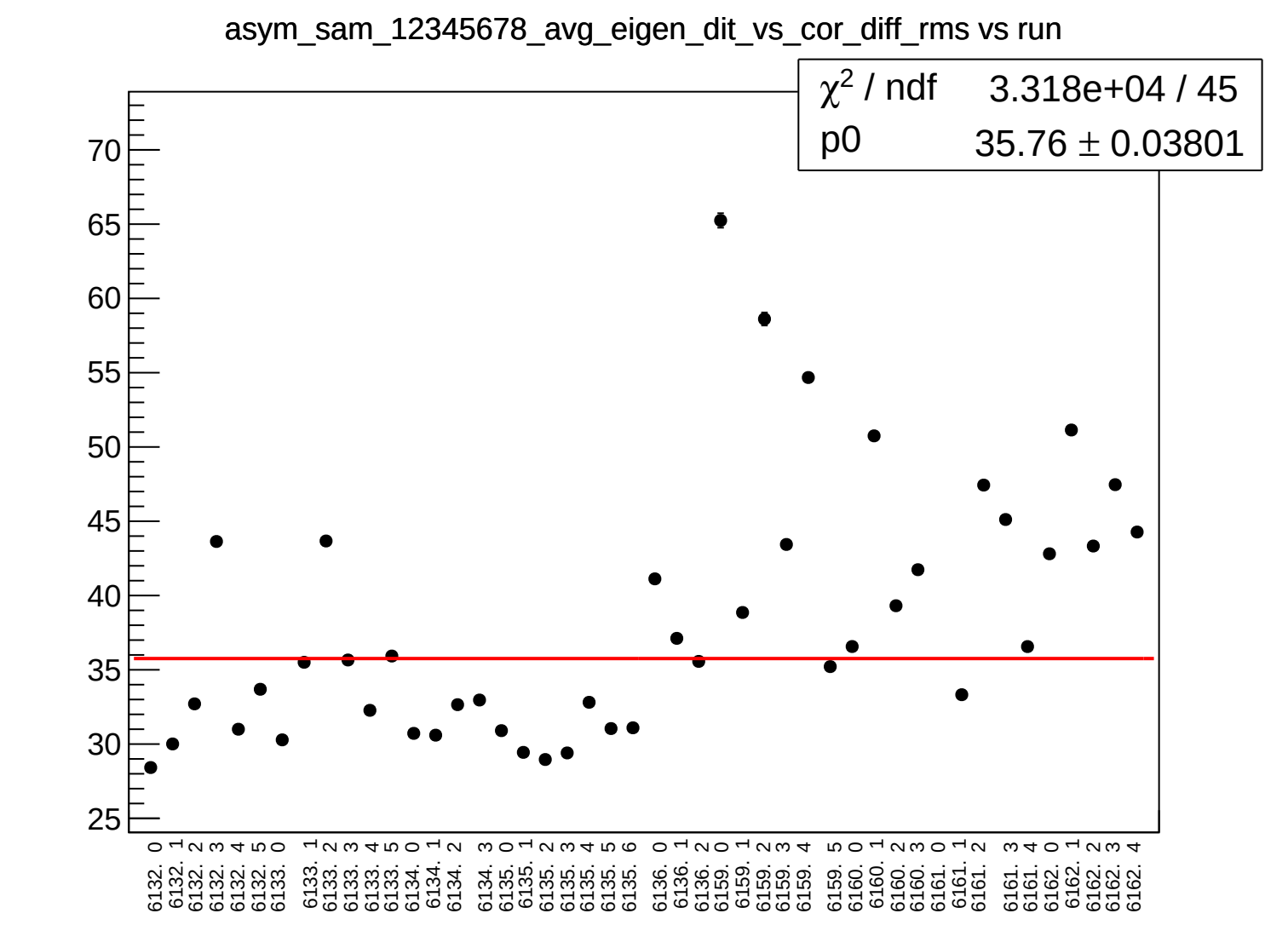

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 53.19 / 45
p0 −0.01783 ± 0.05375
pull
Entries 46
Mean 101.2
Std Dev 0
pull1D
Entries 46
Mean 0.05041
Std Dev 1.074

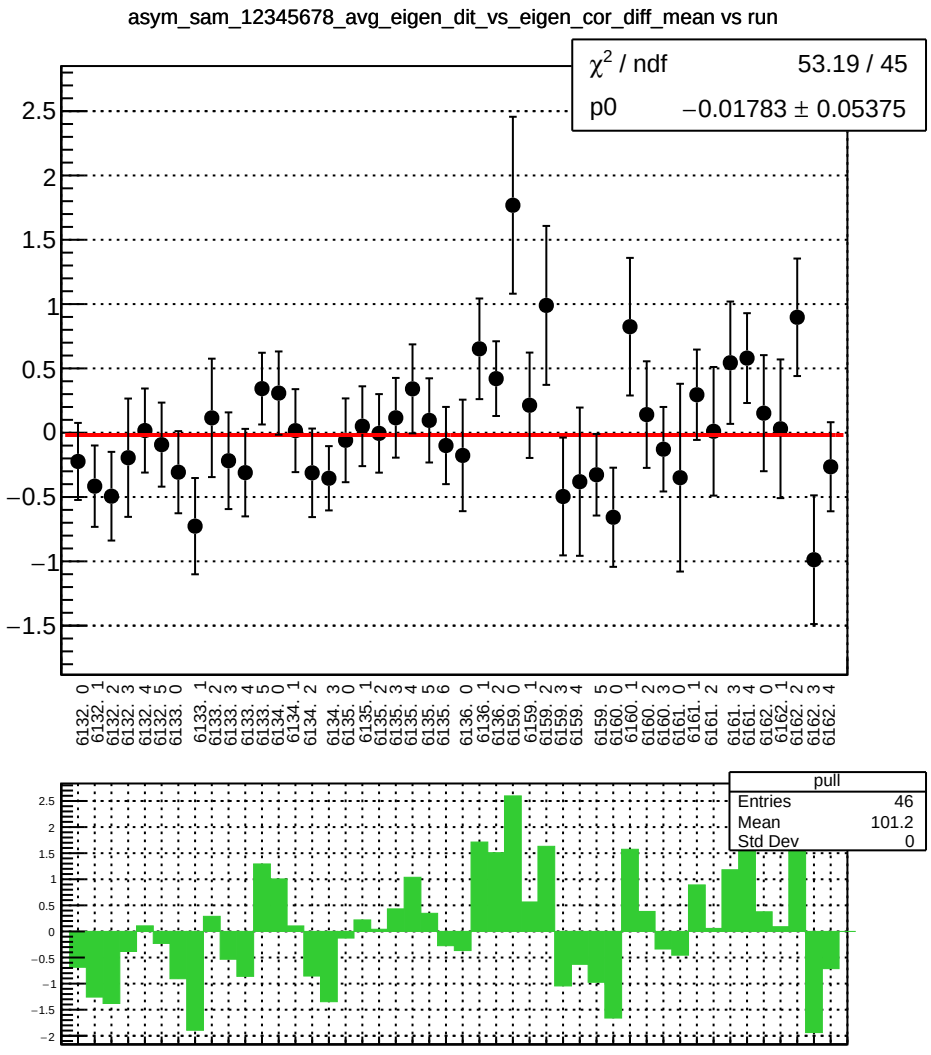

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ2 / ndf 3.319e+04 / 45
p0 35.76 ± 0.03801
70
65
60
55
50
45
40
35
30
25
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

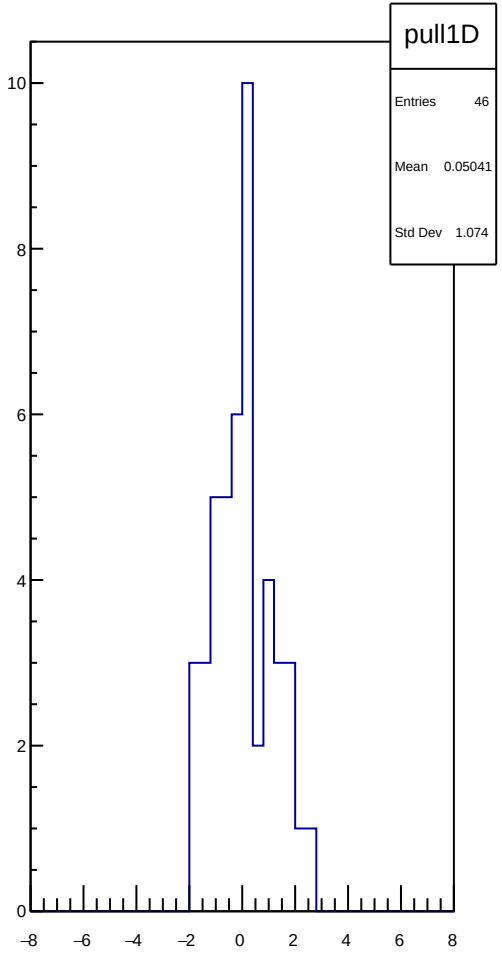

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 47.55 / 45
p0 −1.266e−06 ± 3.993e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.08403
Std Dev 1.013
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

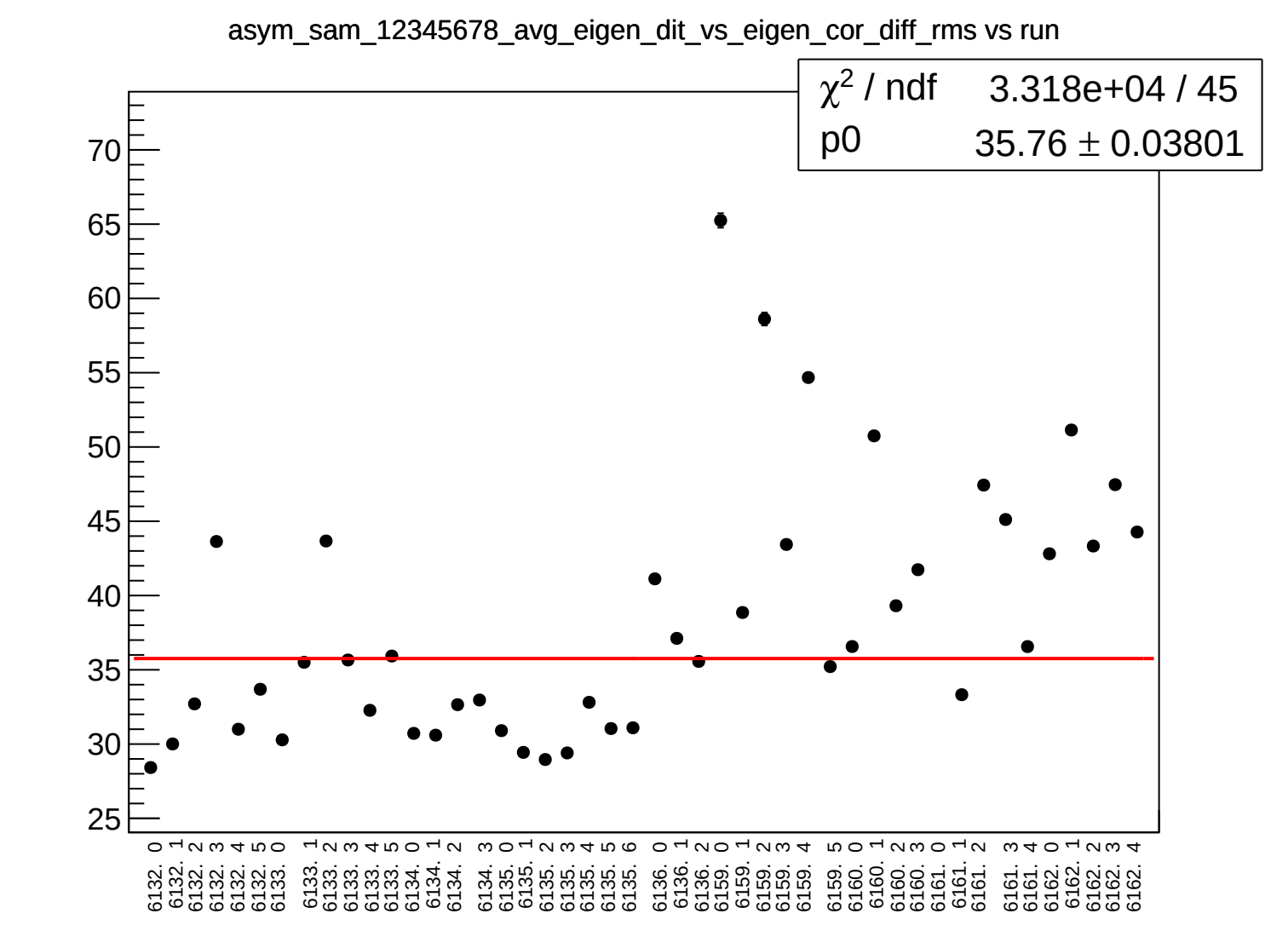

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.291e+05 / 45
p0 0.002508 ± 2.824e−06
0.007
0.006
0.005
0.004
0.003
0.002
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

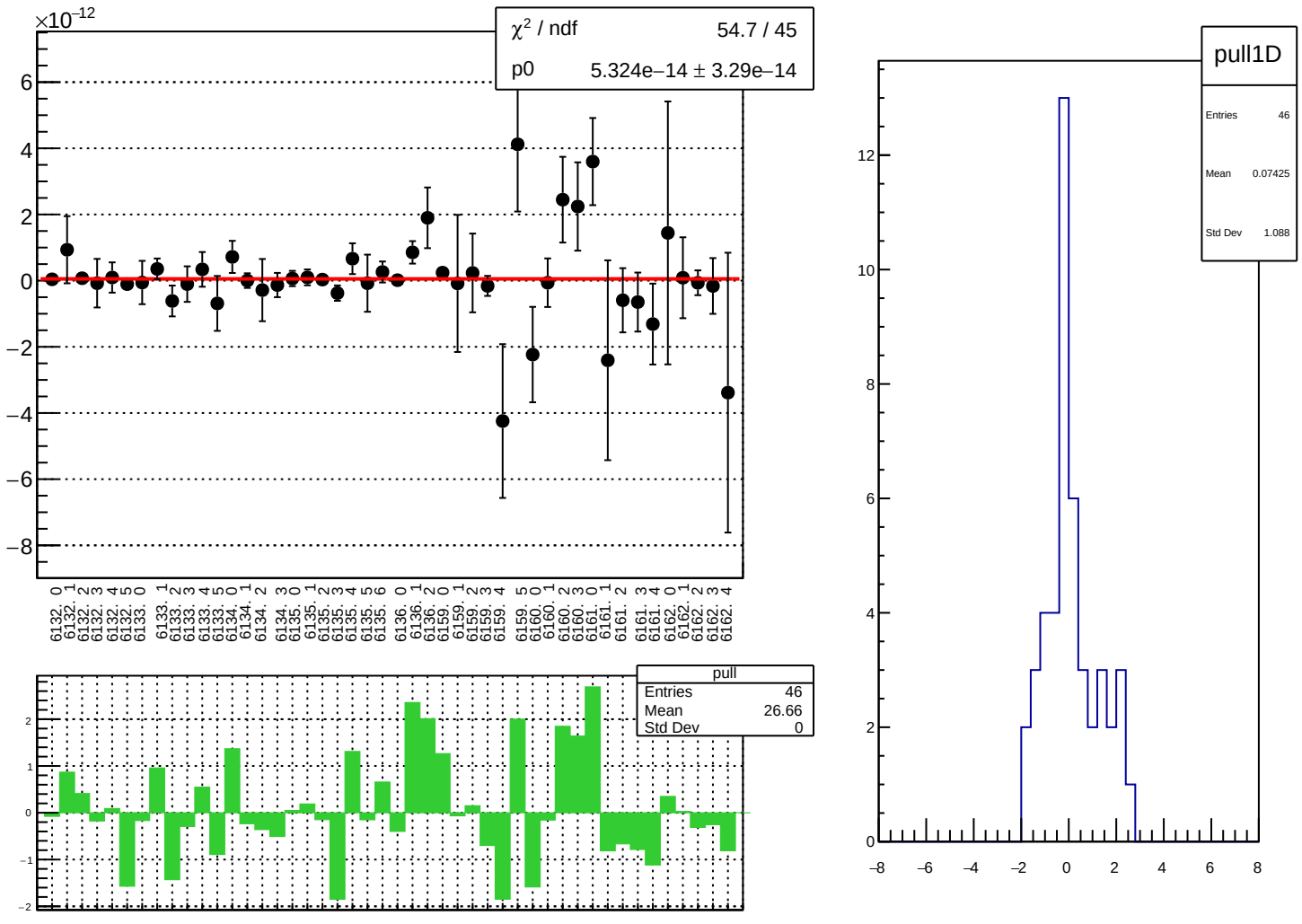

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 53.19 / 45
p0 −0.01783 ± 0.05375
pull
Entries 46
Mean 101.2
Std Dev 0
pull1D
Entries 46
Mean 0.05041
Std Dev 1.074

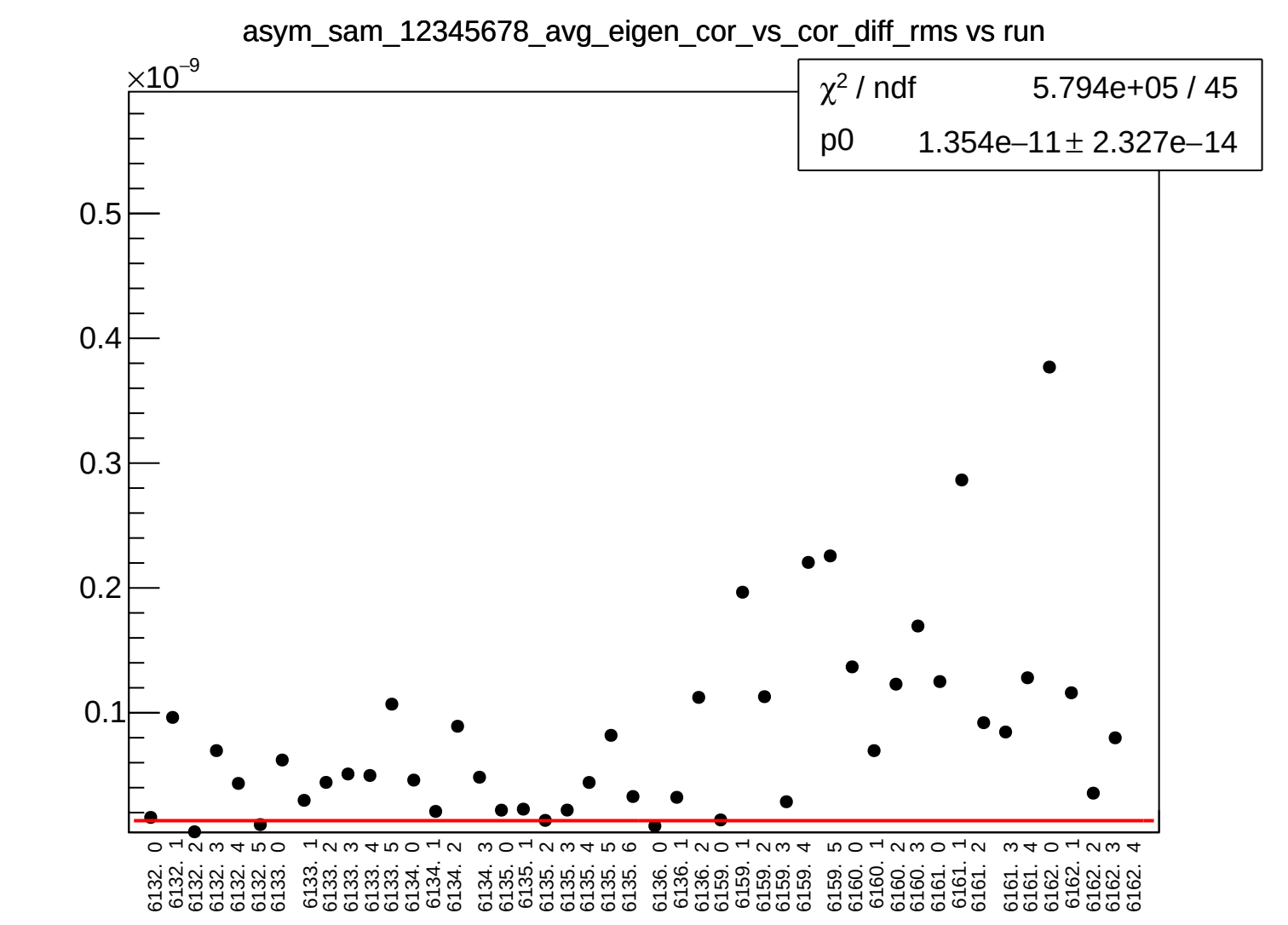

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ2 / ndf 3.318e+04 / 45
p0 35.76 ± 0.03801
70
65
60
55
50
45
40
35
30
25
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

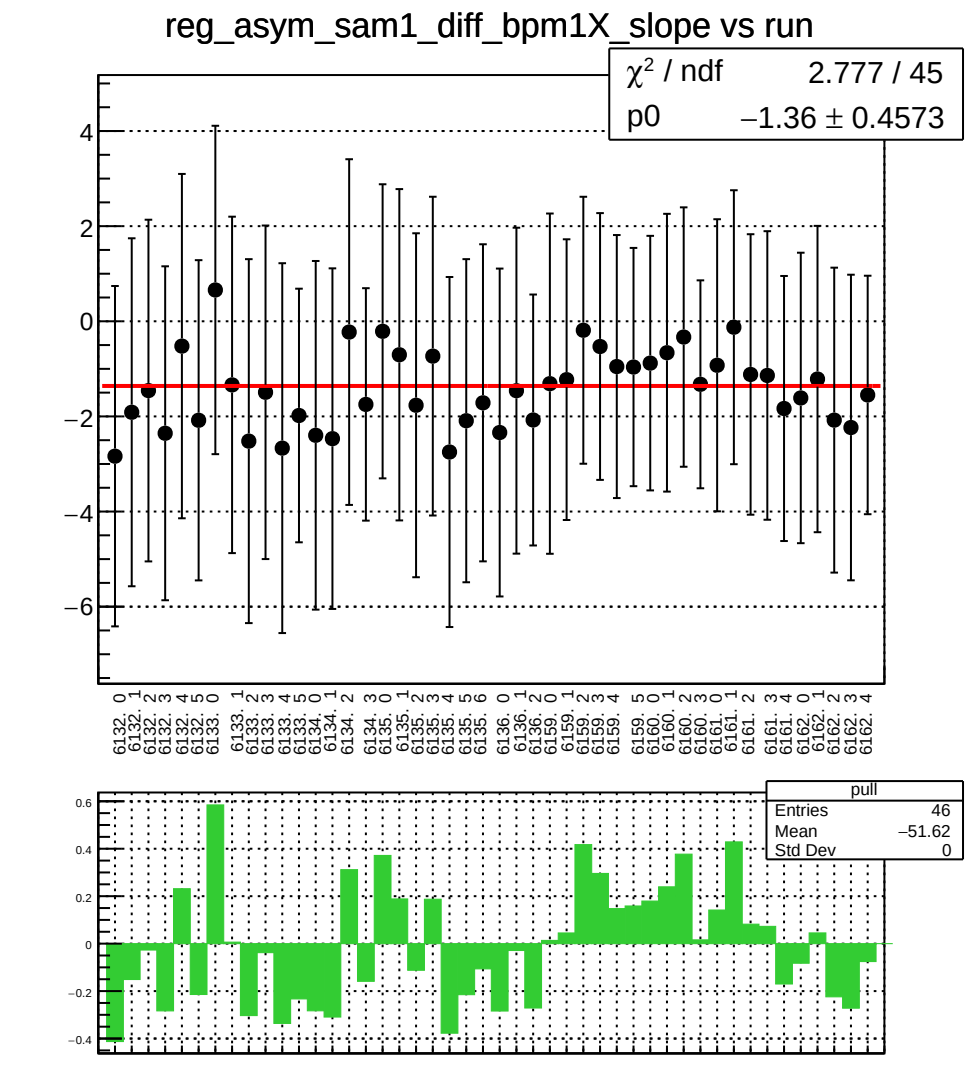

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 53.19 / 45
p0 −0.01783 ± 0.05375
pull
Entries 46
Mean 101.2
Std Dev 0

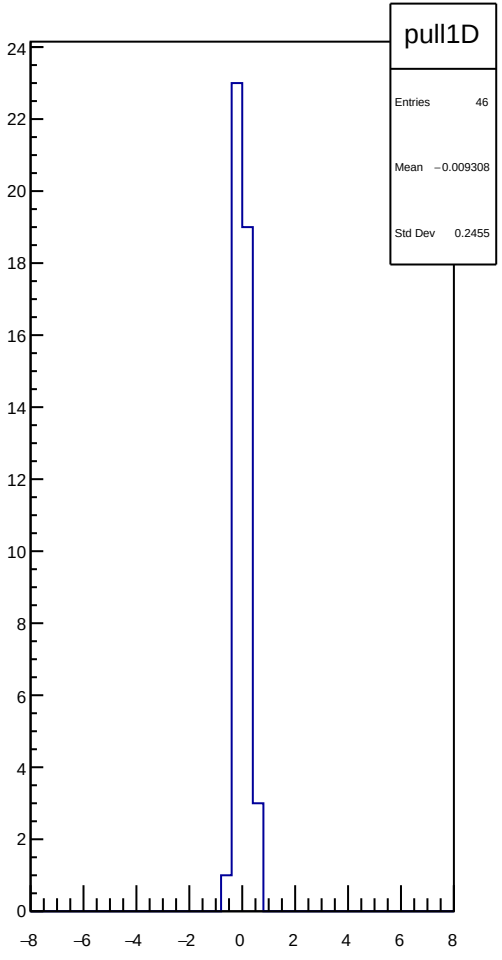

pull1D
Entries 46
Mean 0.05041
Std Dev 1.074

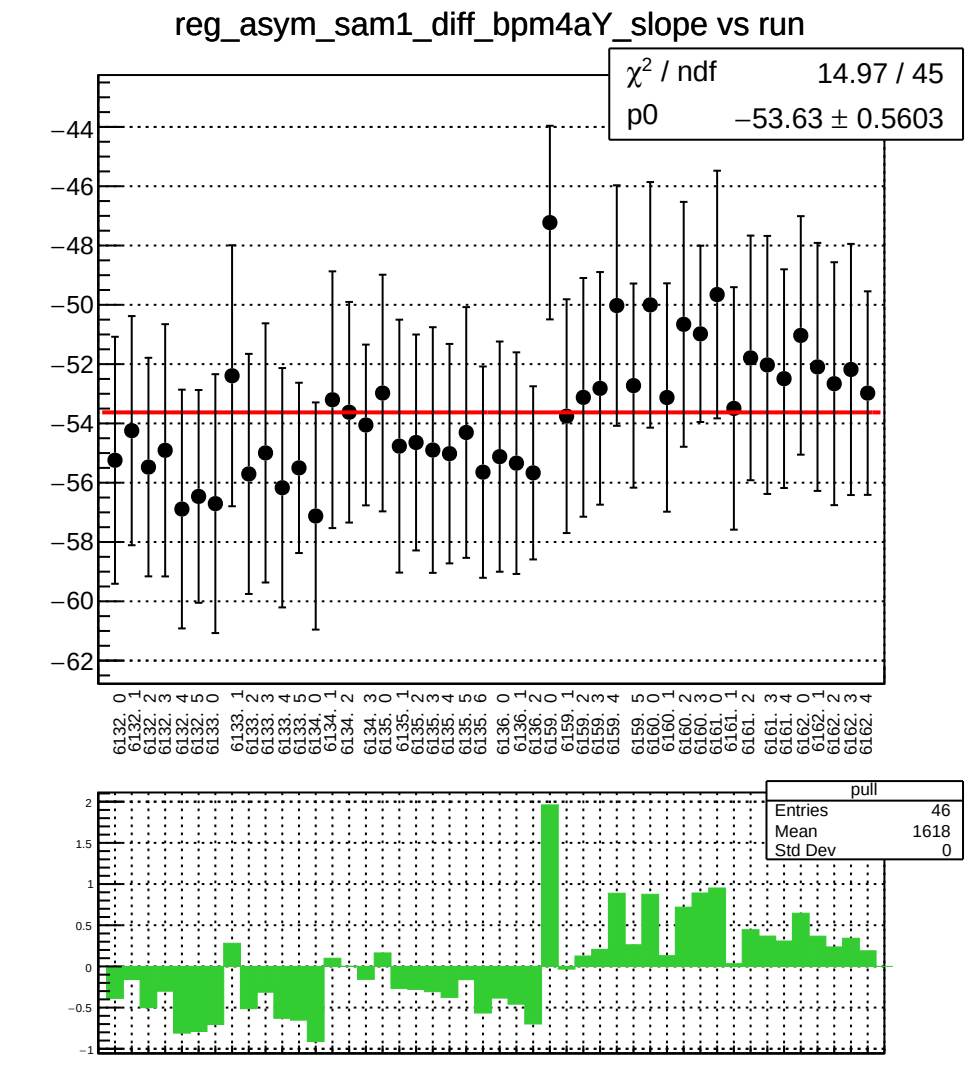

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.318e+04 / 45
p0 35.76 ± 0.03801
70
65
60
55
50
45
40
35
30
25
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

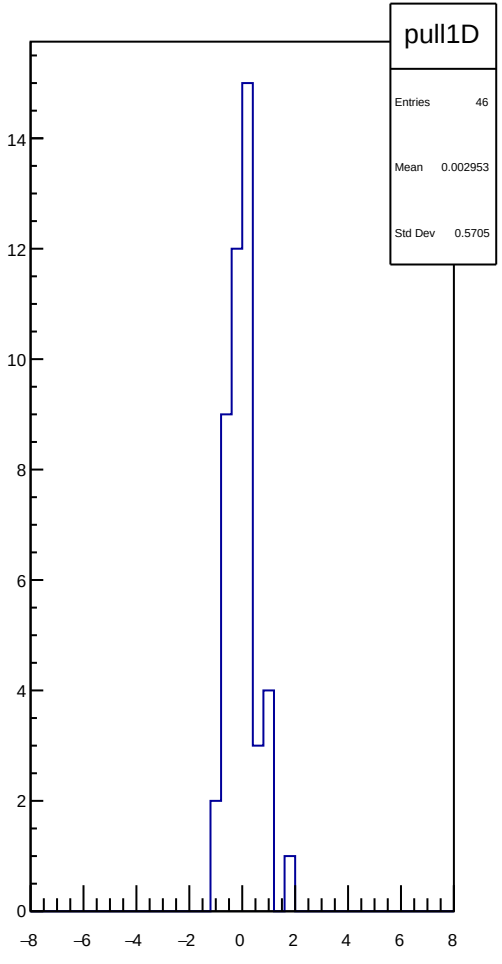

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 54.7 / 45
p0 5.324e−14 ± 3.29e−14
pull
Entries 46
Mean 26.66
Std Dev 0
pull1D
Entries 46
Mean 0.07425
Std Dev 1.088

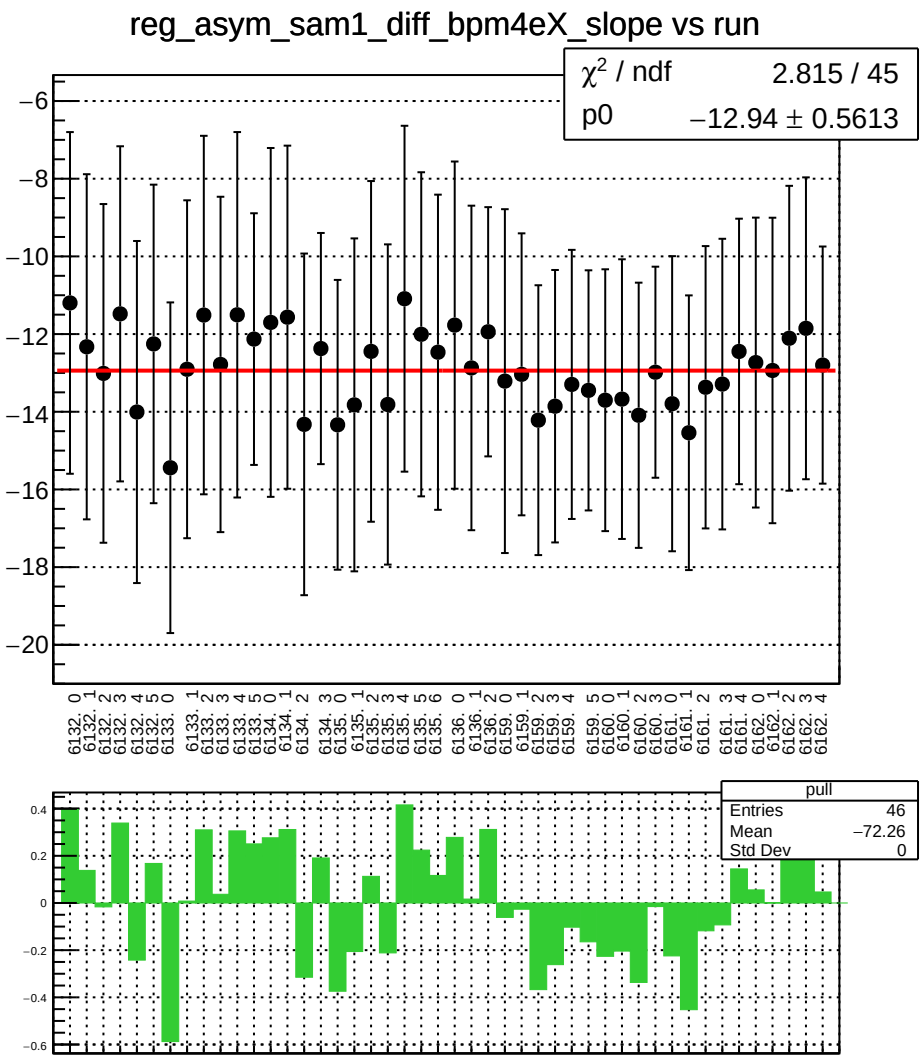

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.794e+05 / 45
p0 1.354e−11 ± 2.327e−14
0.5
0.4
0.3
0.2
0.1
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4

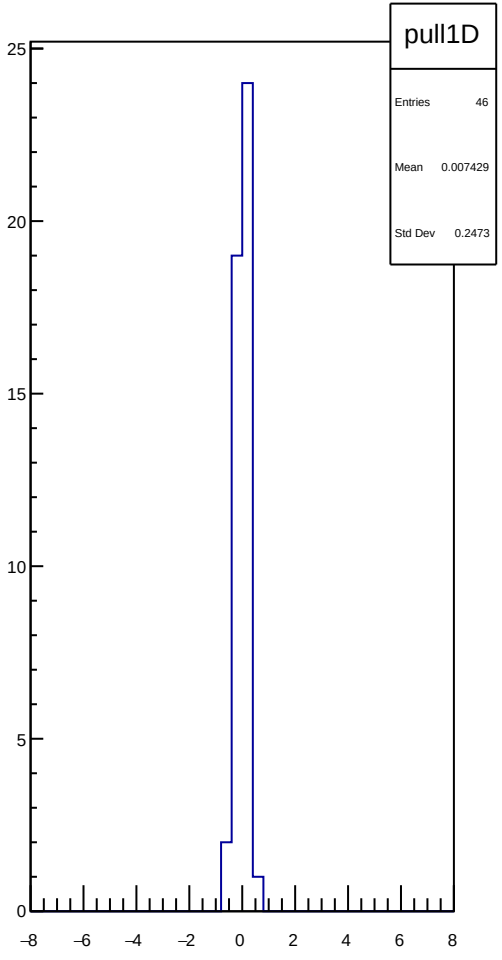

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 2.777 / 45
p0 −1.36 ± 0.4573
pull
Entries 46
Mean −51.62
Std Dev 0

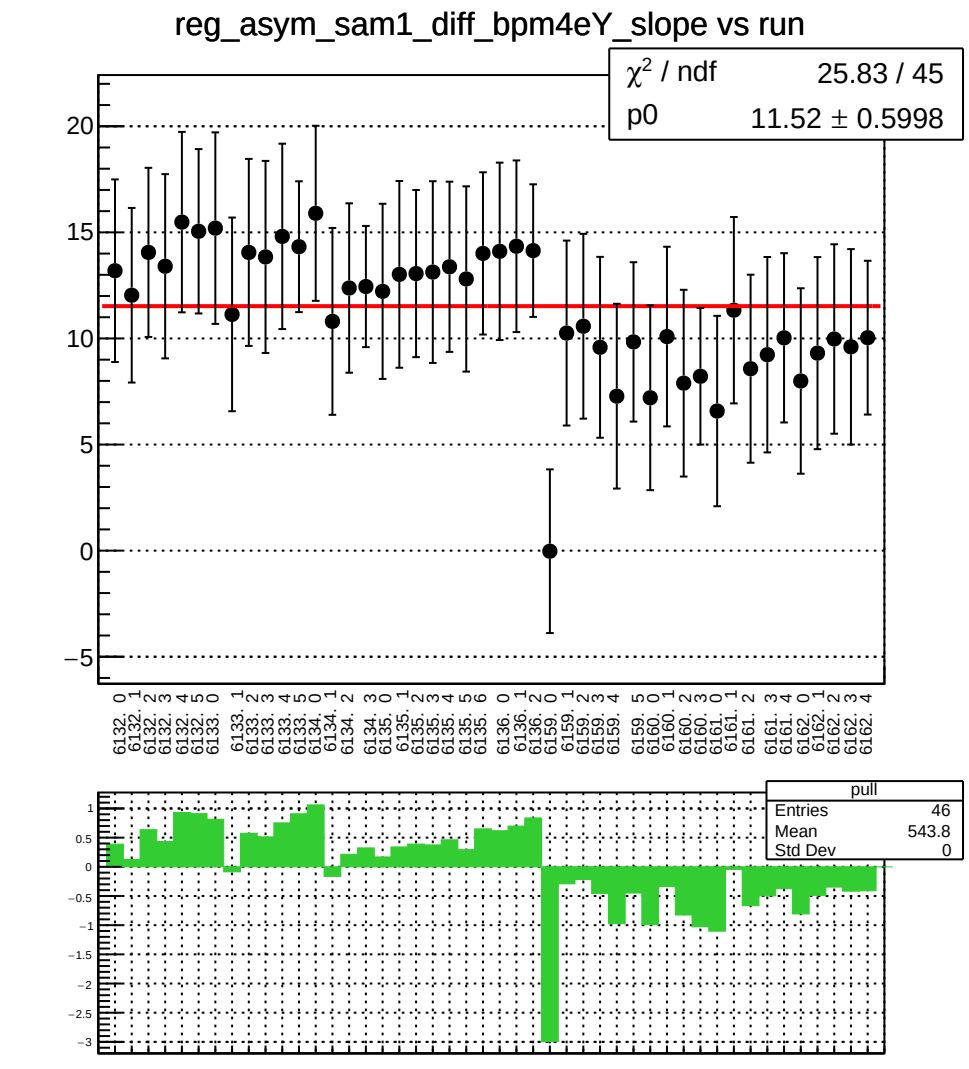

pull1D
Entries 46
Mean −0.009308
Std Dev 0.2455

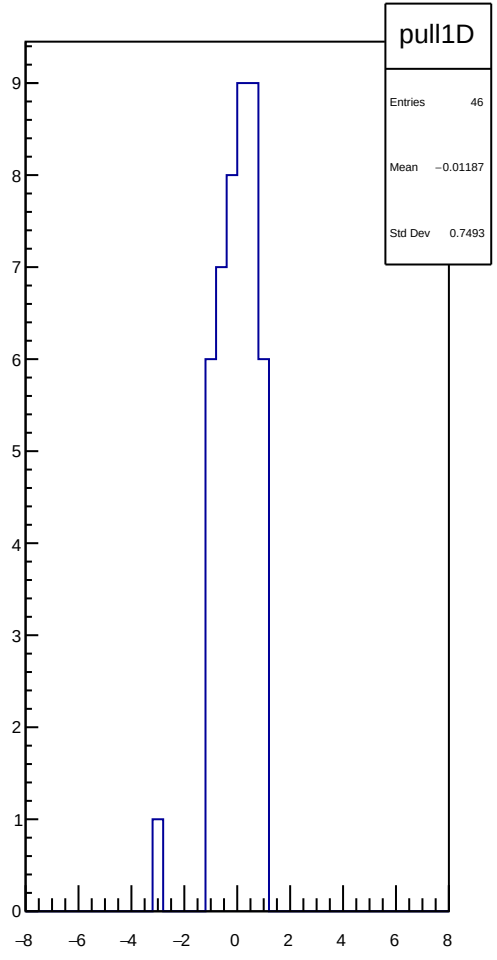

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 14.97 / 45
p0 −53.63 ± 0.5603
pull
Entries 46
Mean 1618
Std Dev 0

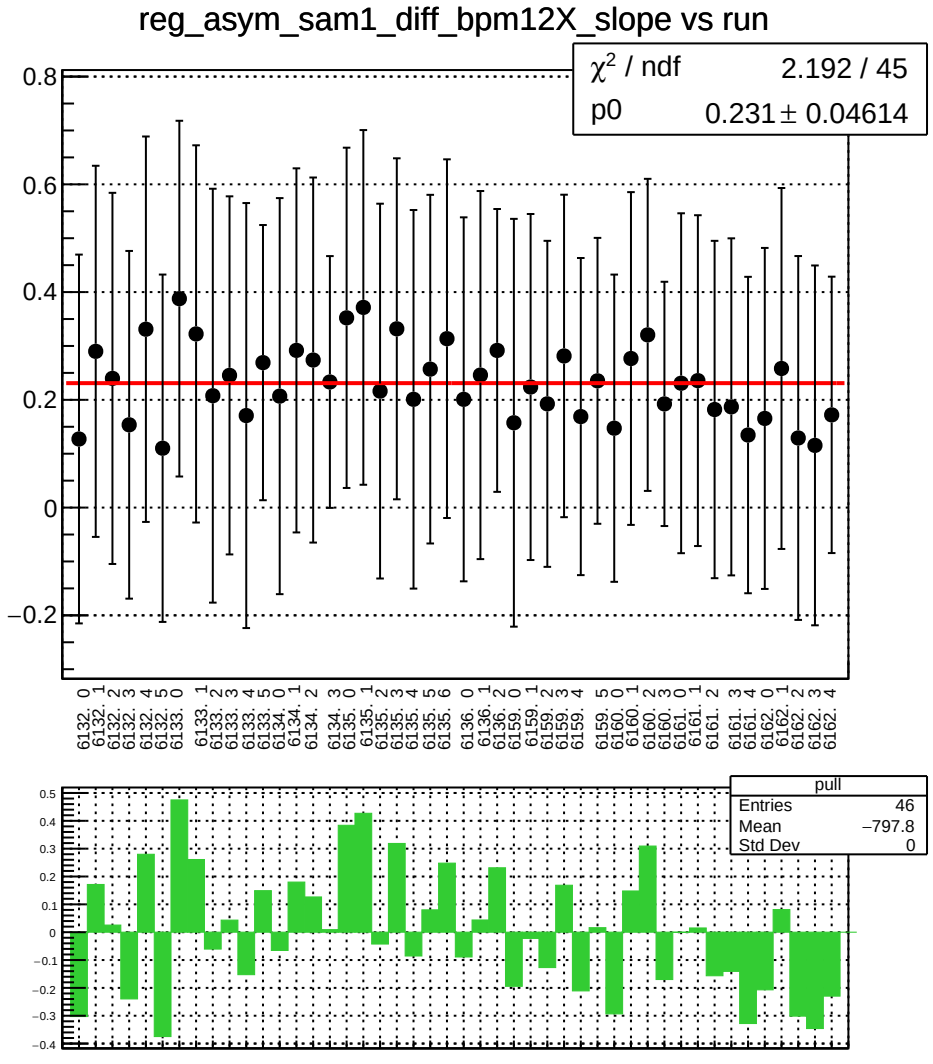

pull1D
Entries 46
Mean 0.002953
Std Dev 0.5705

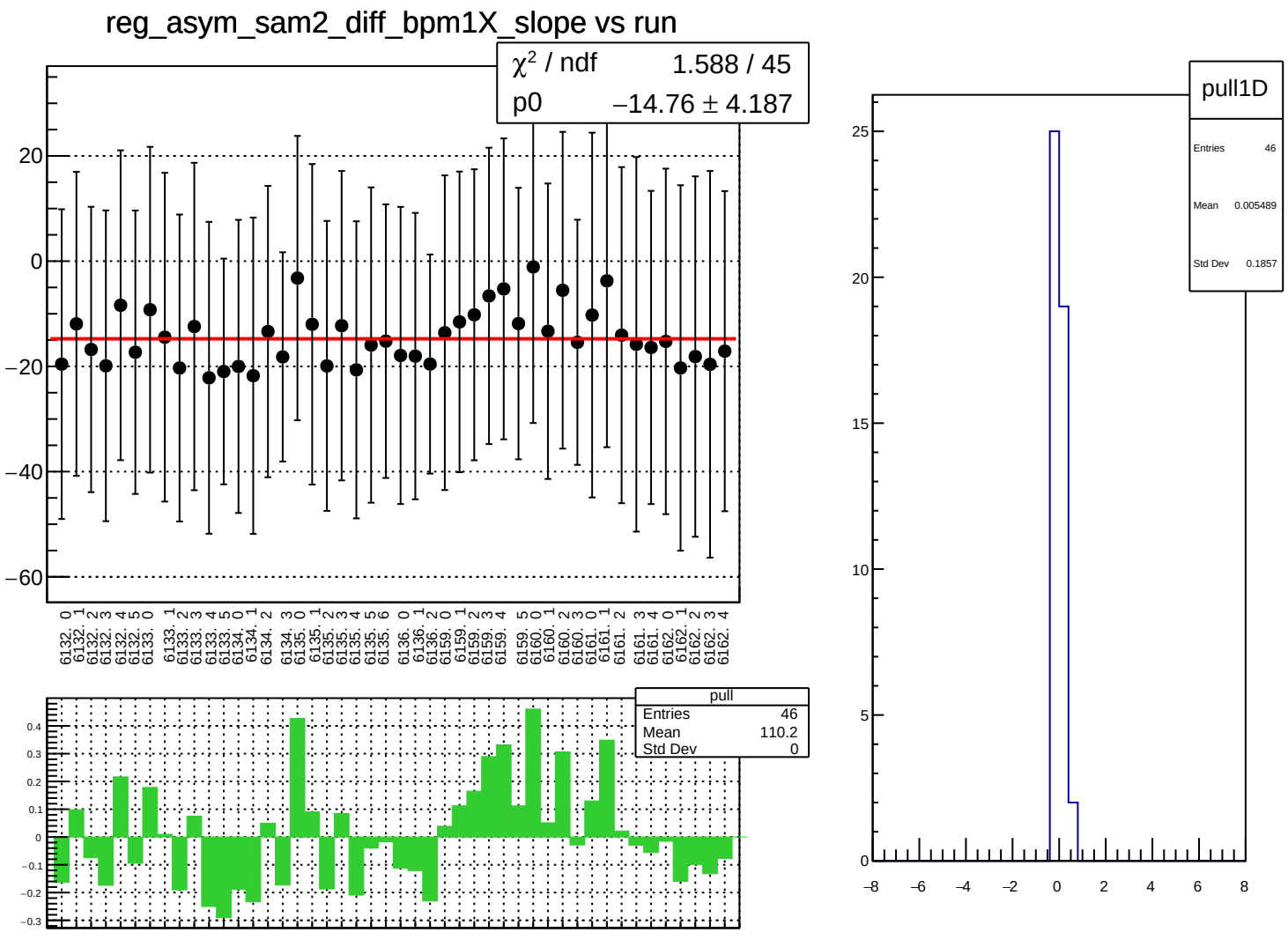

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 2.815 / 45
p0 −12.94 ± 0.5613
pull
Entries 46
Mean −72.26
Std Dev 0

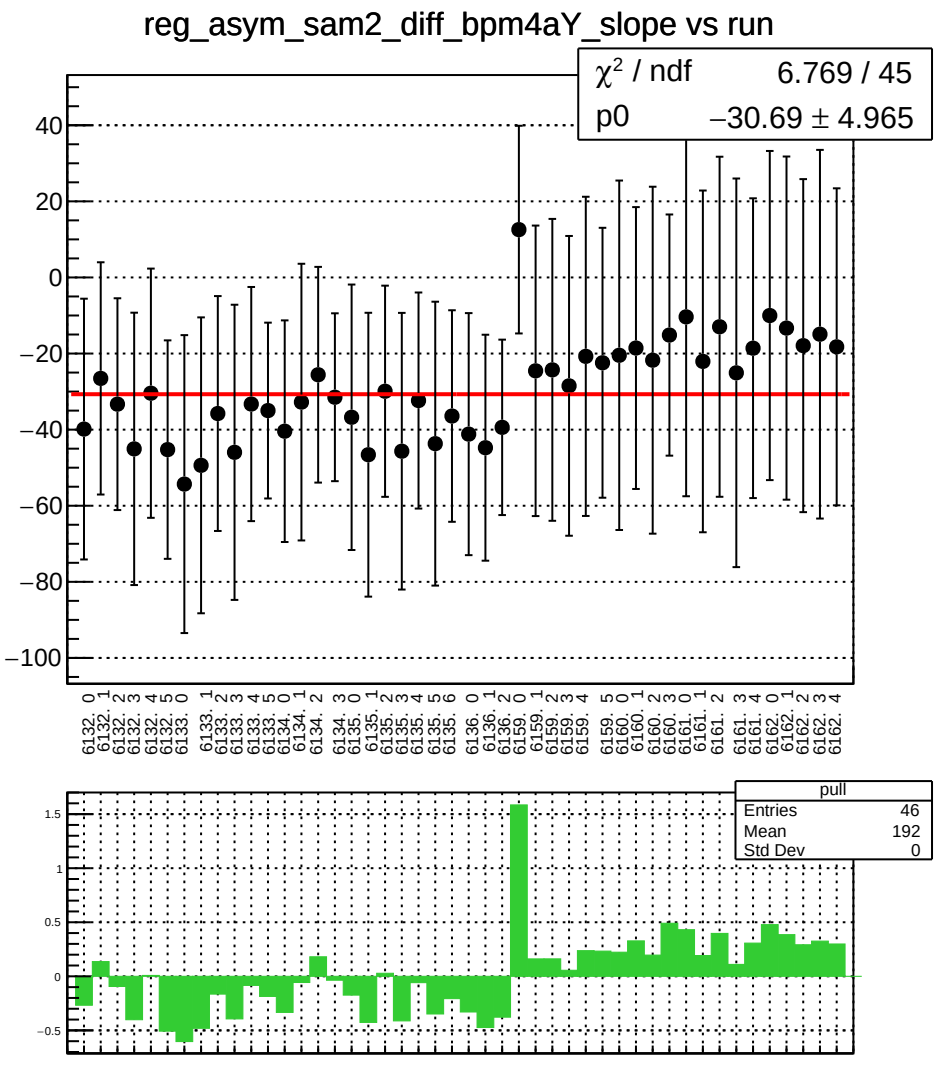

pull1D
Entries 46
Mean 0.007429
Std Dev 0.2473

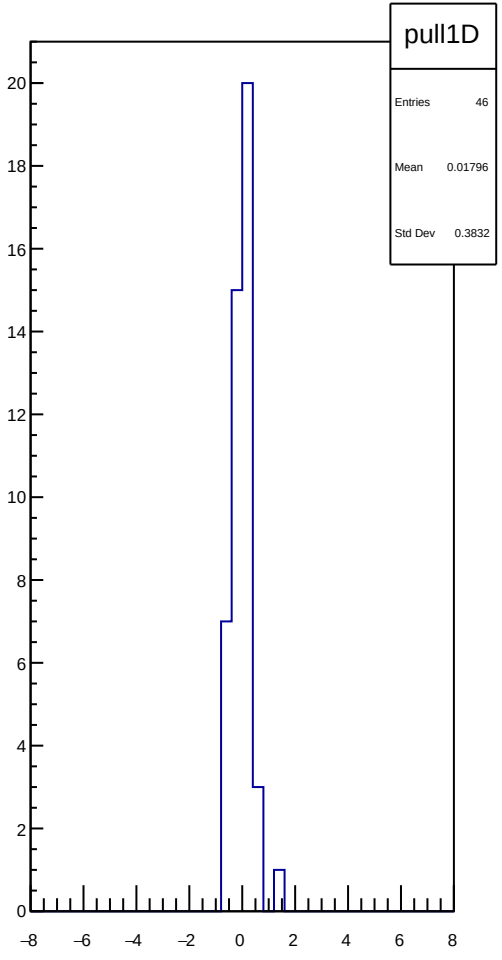

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 25.83 / 45
p0 11.52 ± 0.5998
pull
Entries 46
Mean 543.8
Std Dev 0

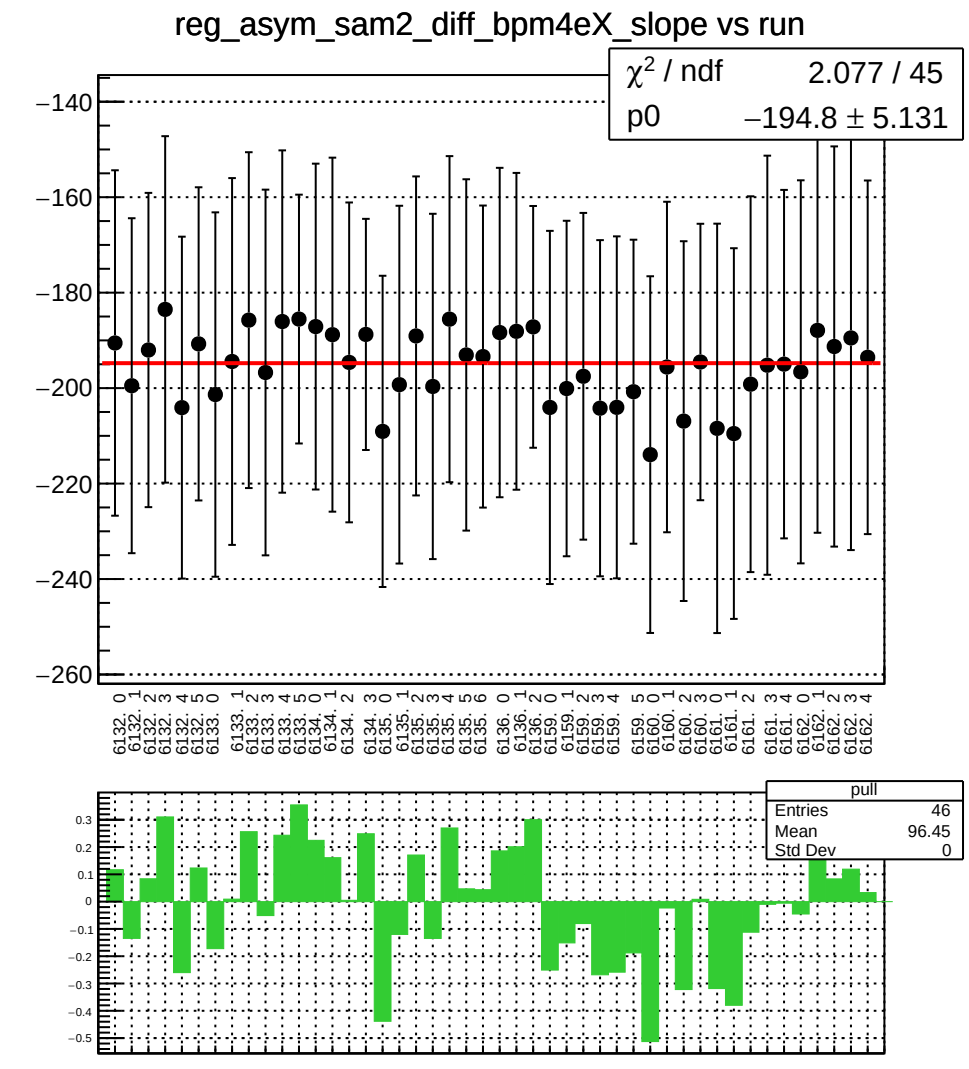

pull1D
Entries 46
Mean −0.01187
Std Dev 0.7493

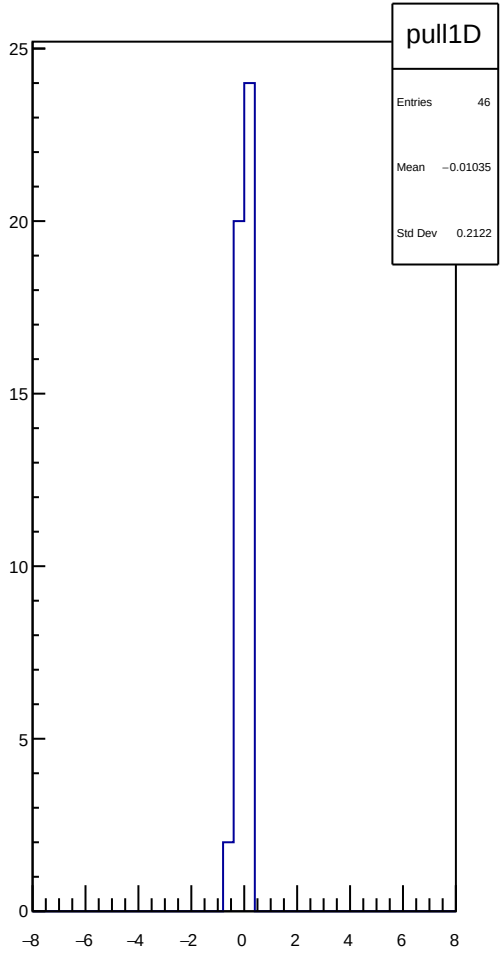

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 2.192 / 45
p0 0.231 ± 0.04614
pull
Entries 46
Mean −797.8
Std Dev 0
pull1D
Entries 46
Mean 0.00114
Std Dev 0.2183

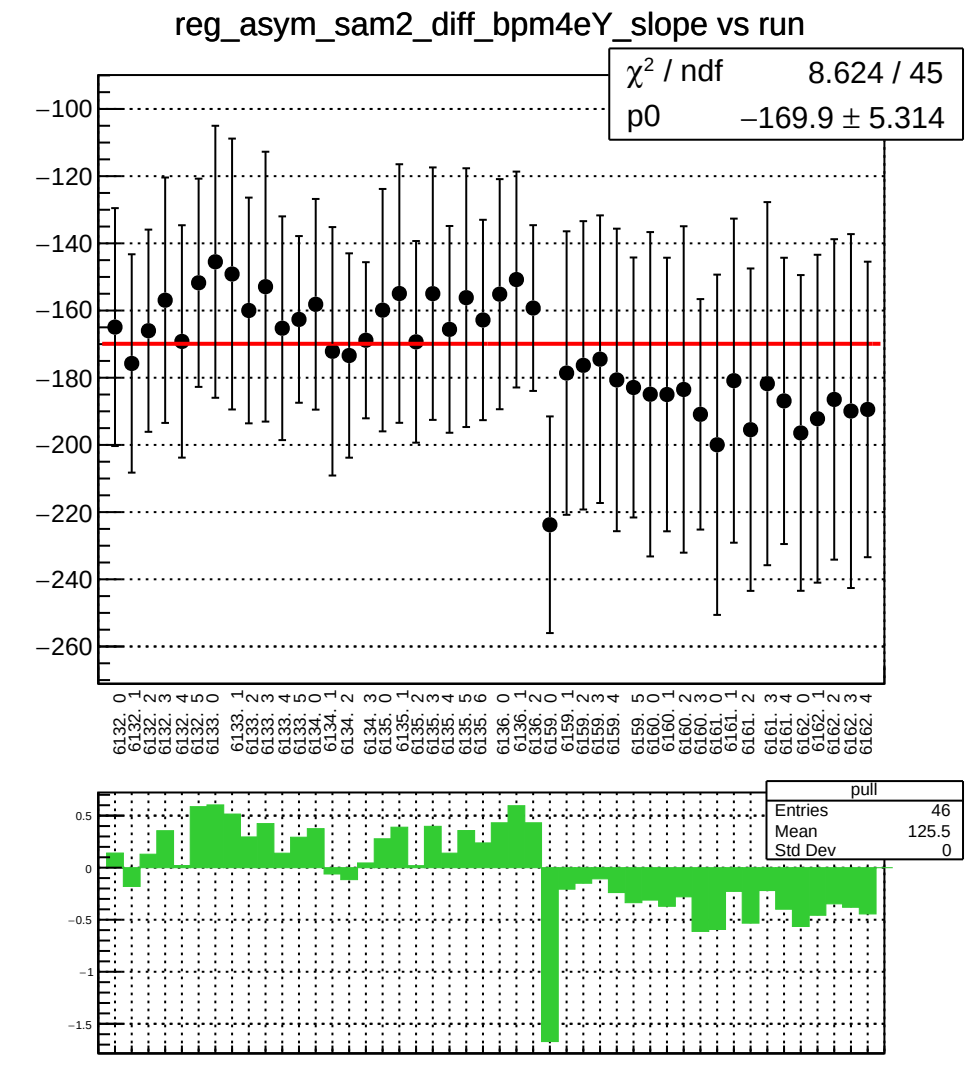

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 1.588 / 45
p0 −14.76 ± 4.187
20
0
−20
−40
−60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 110.2
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 46
Mean 0.005489
Std Dev 0.1857
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

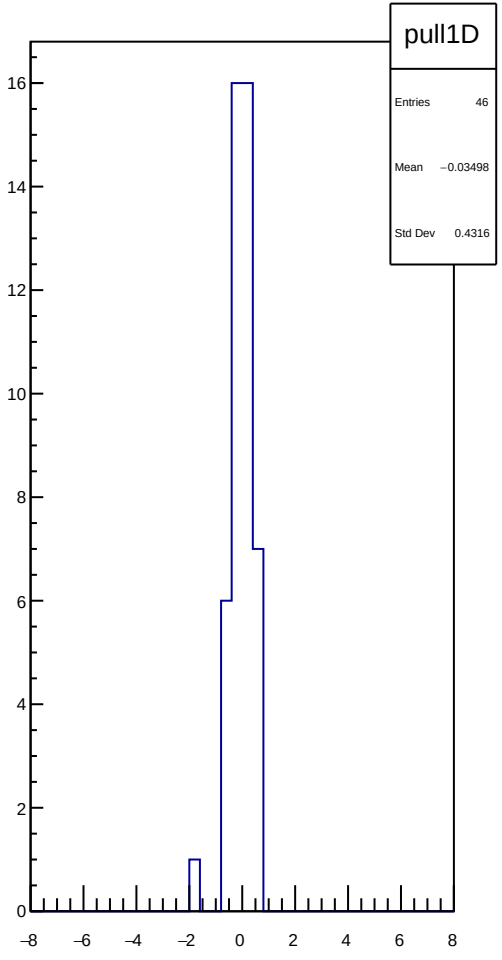

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 6.769 / 45
p0 −30.69 ± 4.965
pull
Entries 46
Mean 192
Std Dev 0

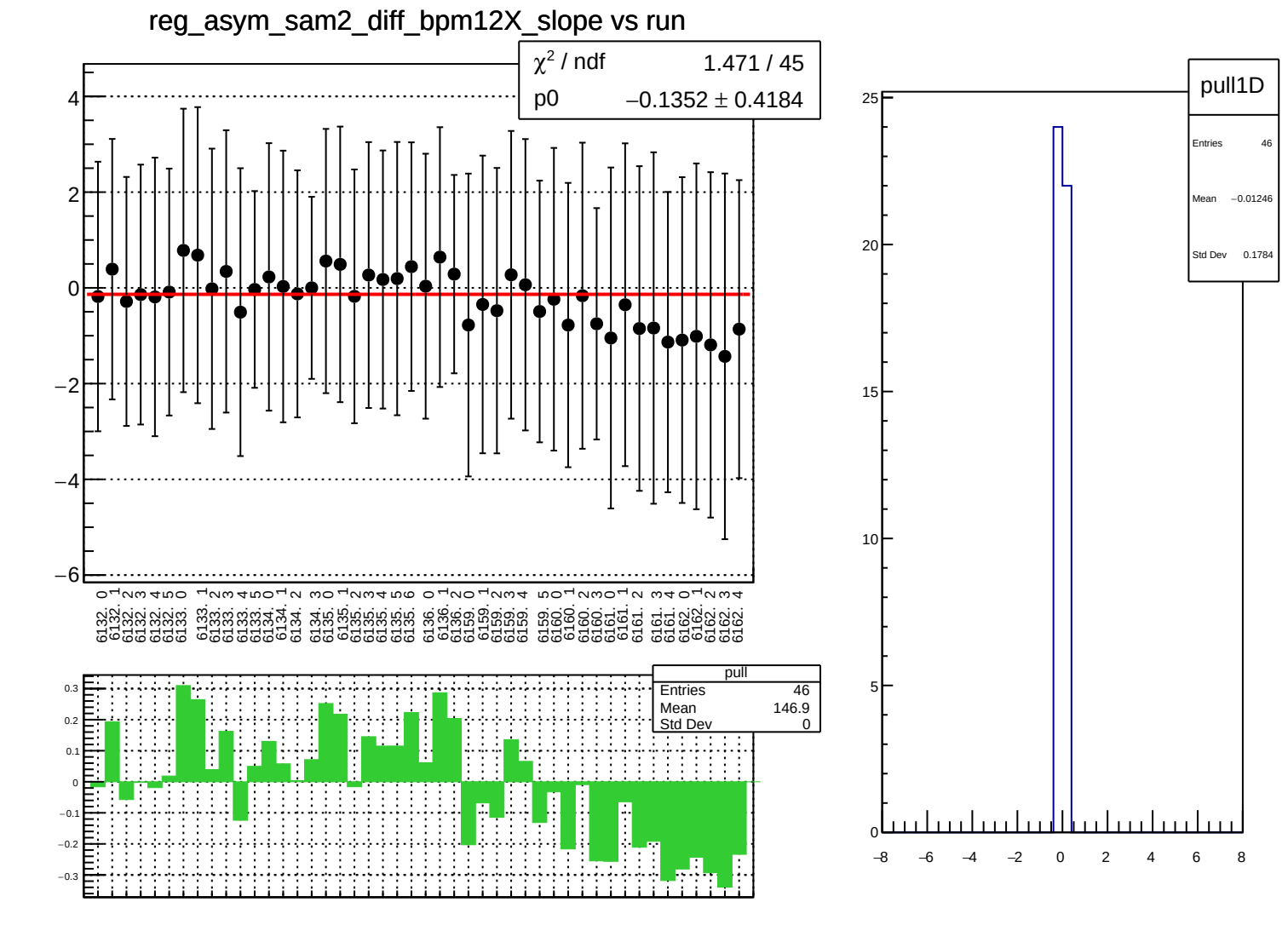

pull1D
Entries 46
Mean 0.01796
Std Dev 0.3832

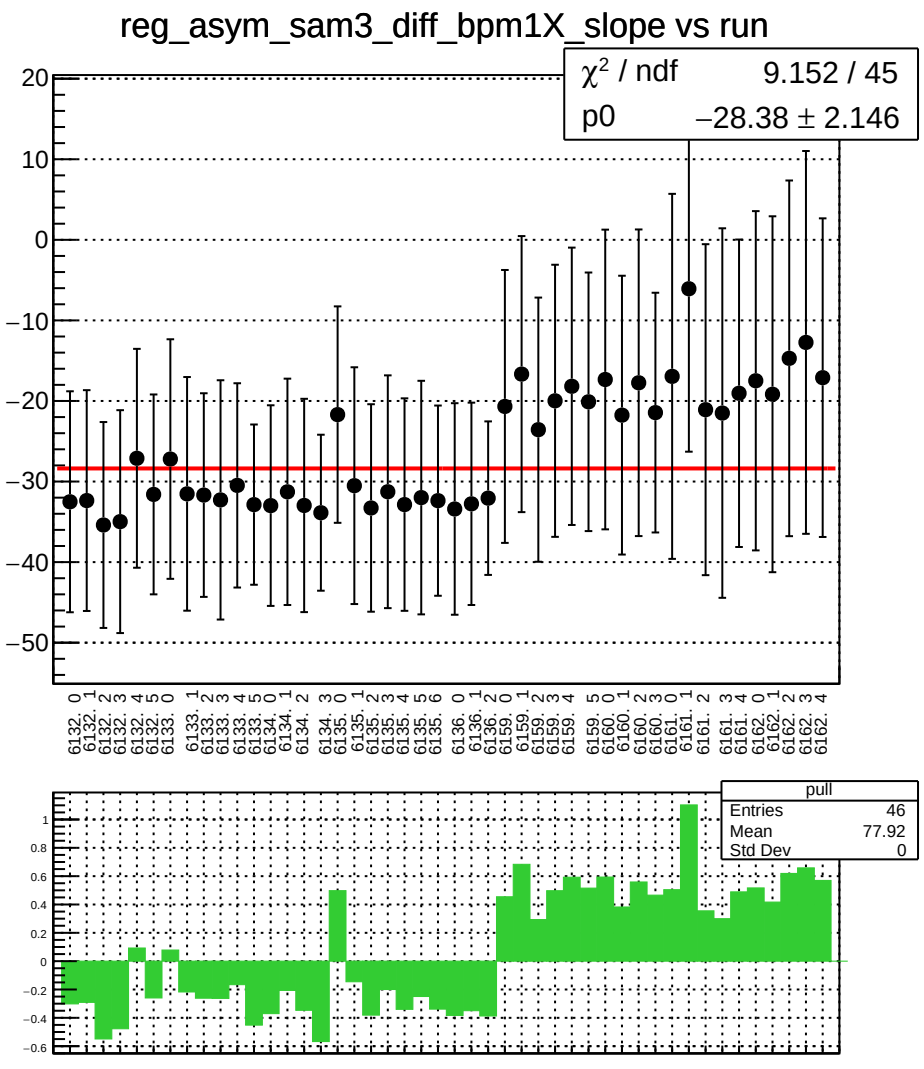

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 2.077 / 45
p0 −194.8 ± 5.131
−140
−160
−180
−200
−220
−240
−260
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 96.45
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

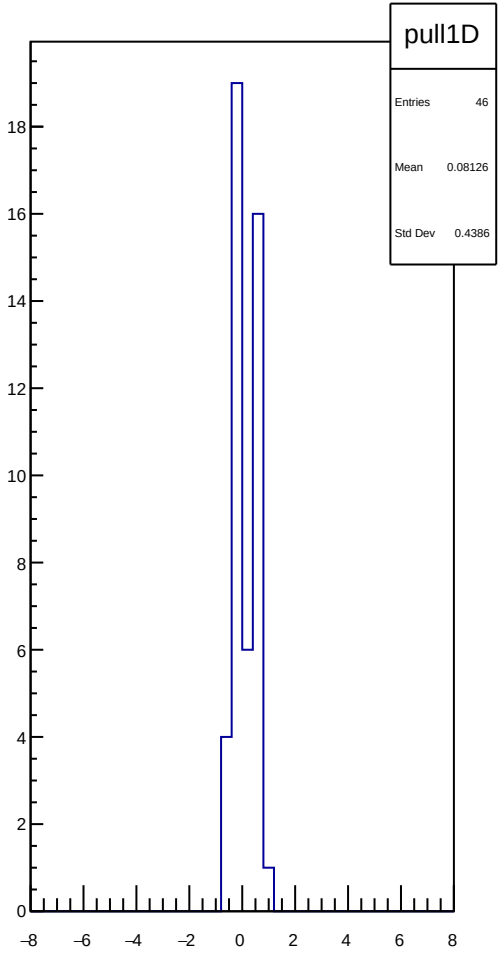

pull1D
Entries 46
Mean −0.01035
Std Dev 0.2122
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

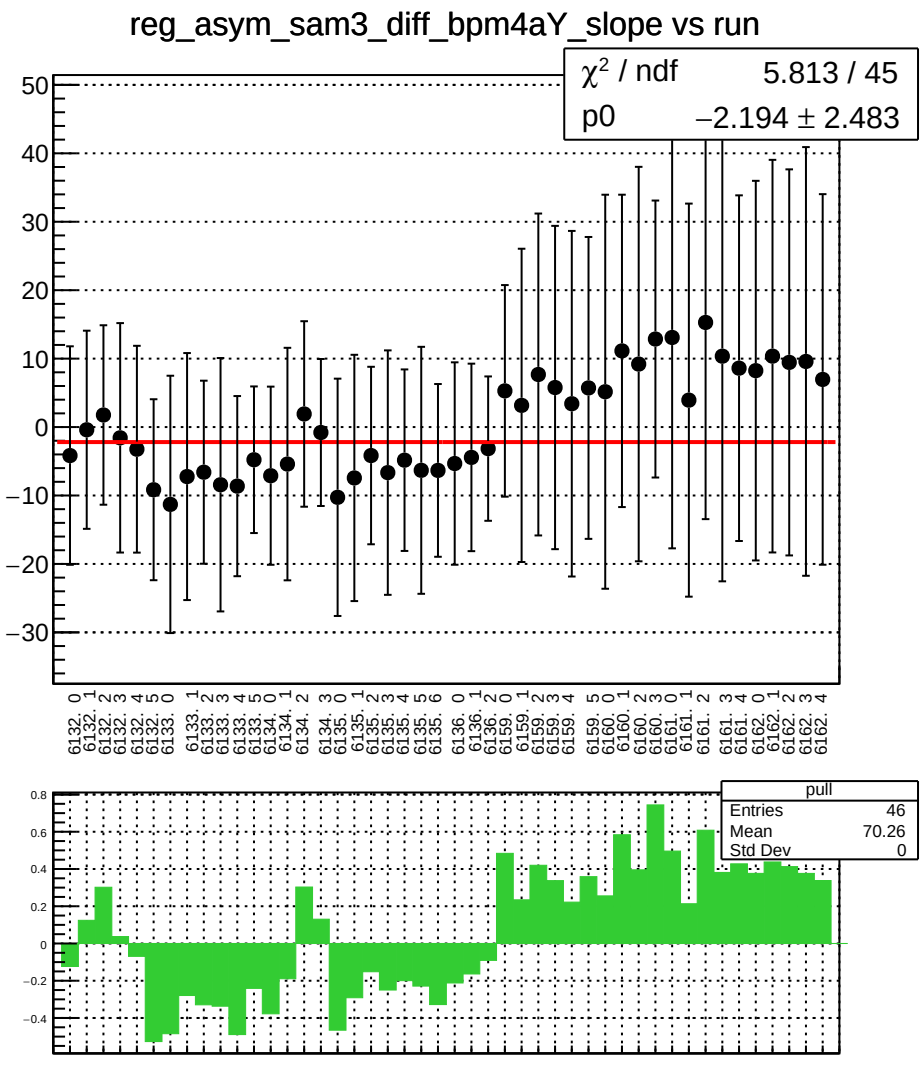

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 8.624 / 45
p0 −169.9 ± 5.314
pull
Entries 46
Mean 125.5
Std Dev 0

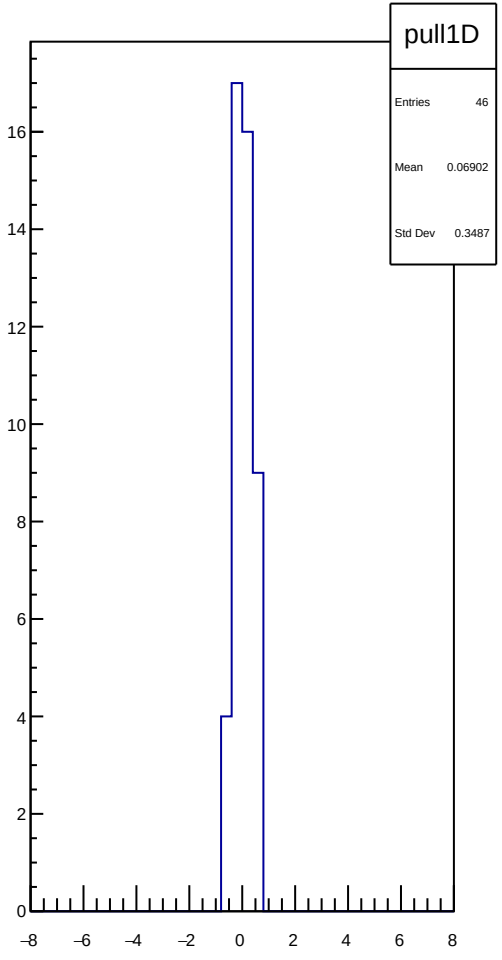

pull1D
Entries 46
Mean −0.03498
Std Dev 0.4316

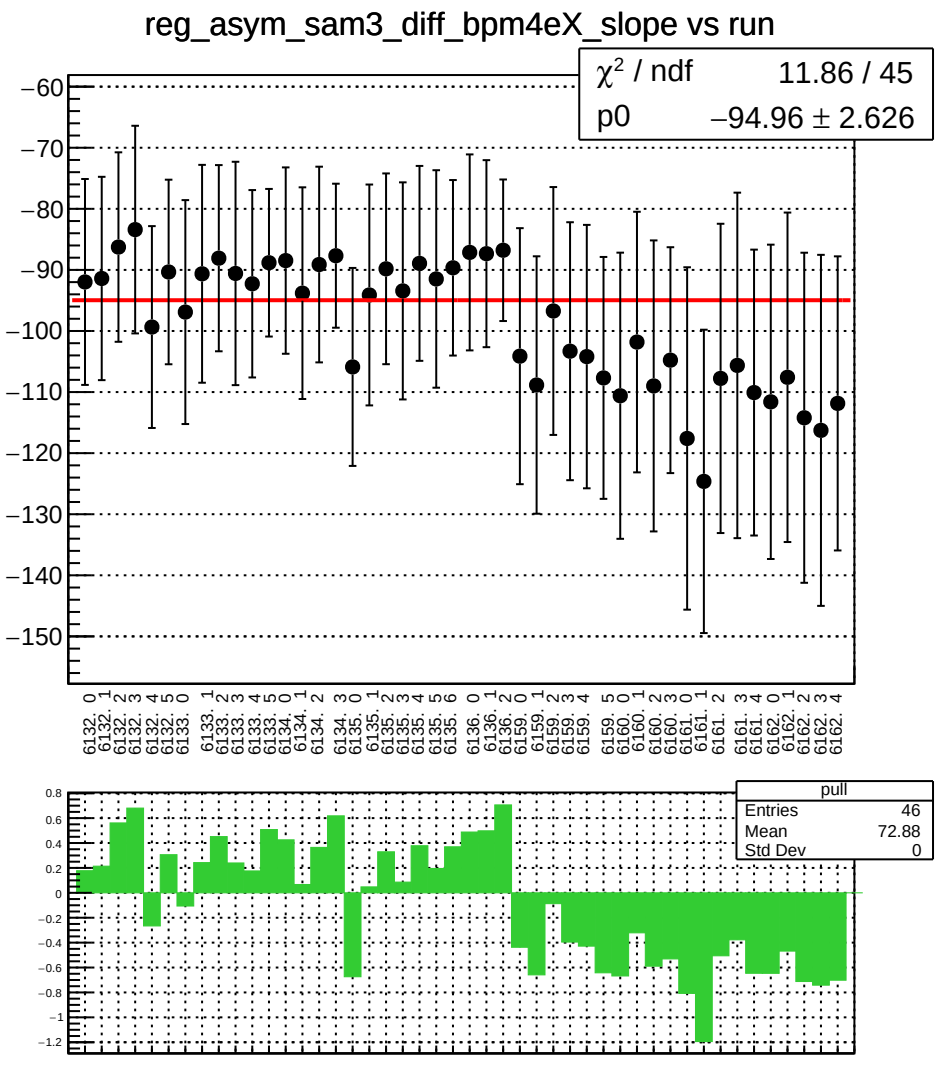

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 1.471 / 45
p0 −0.1352 ± 0.4184
pull
Entries 46
Mean 146.9
Std Dev 0
pull1D
Entries 46
Mean −0.01246
Std Dev 0.1784

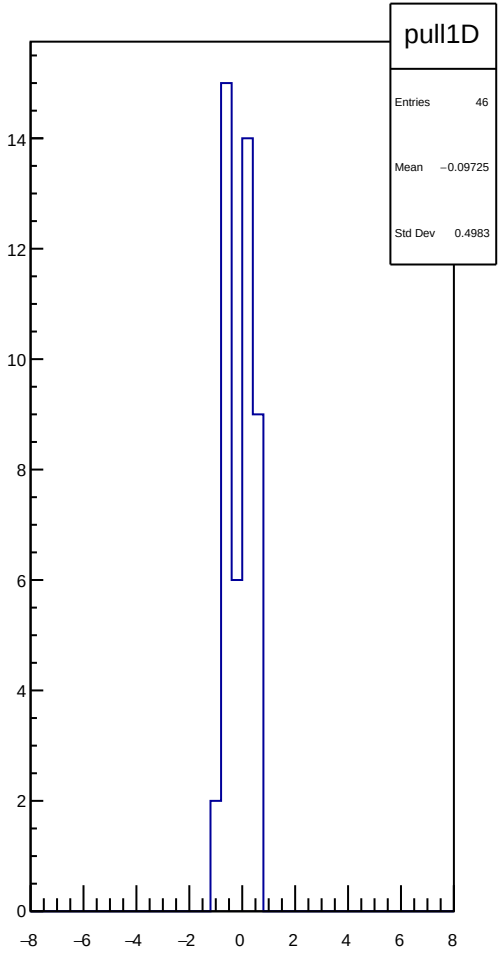

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 9.152 / 45
p0 −28.38 ± 2.146
pull
Entries 46
Mean 77.92
Std Dev 0

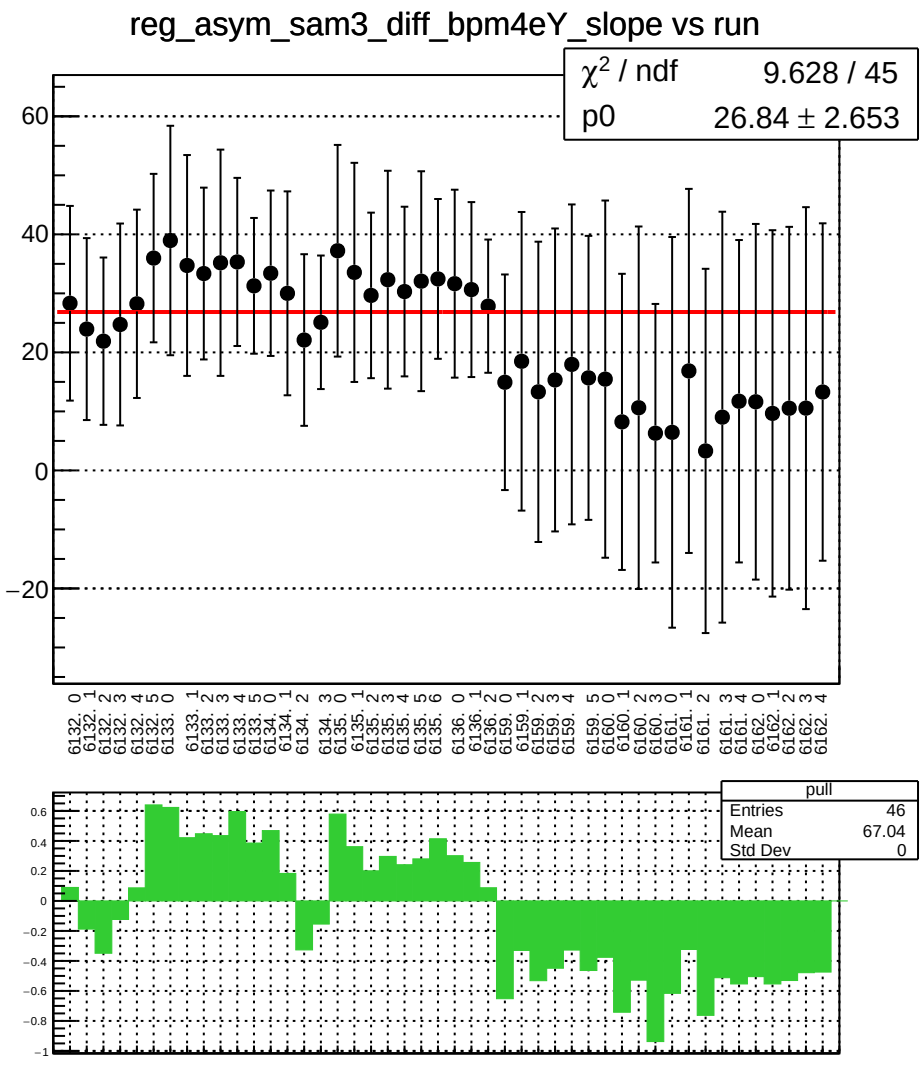

pull1D
Entries 46
Mean 0.08126
Std Dev 0.4386

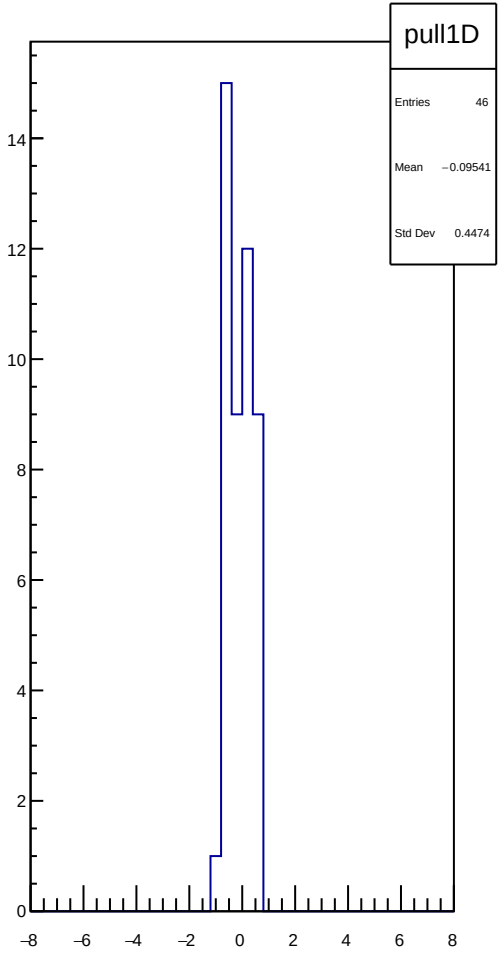

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 5.813 / 45
p0 −2.194 ± 2.483
pull
Entries 46
Mean 70.26
Std Dev 0

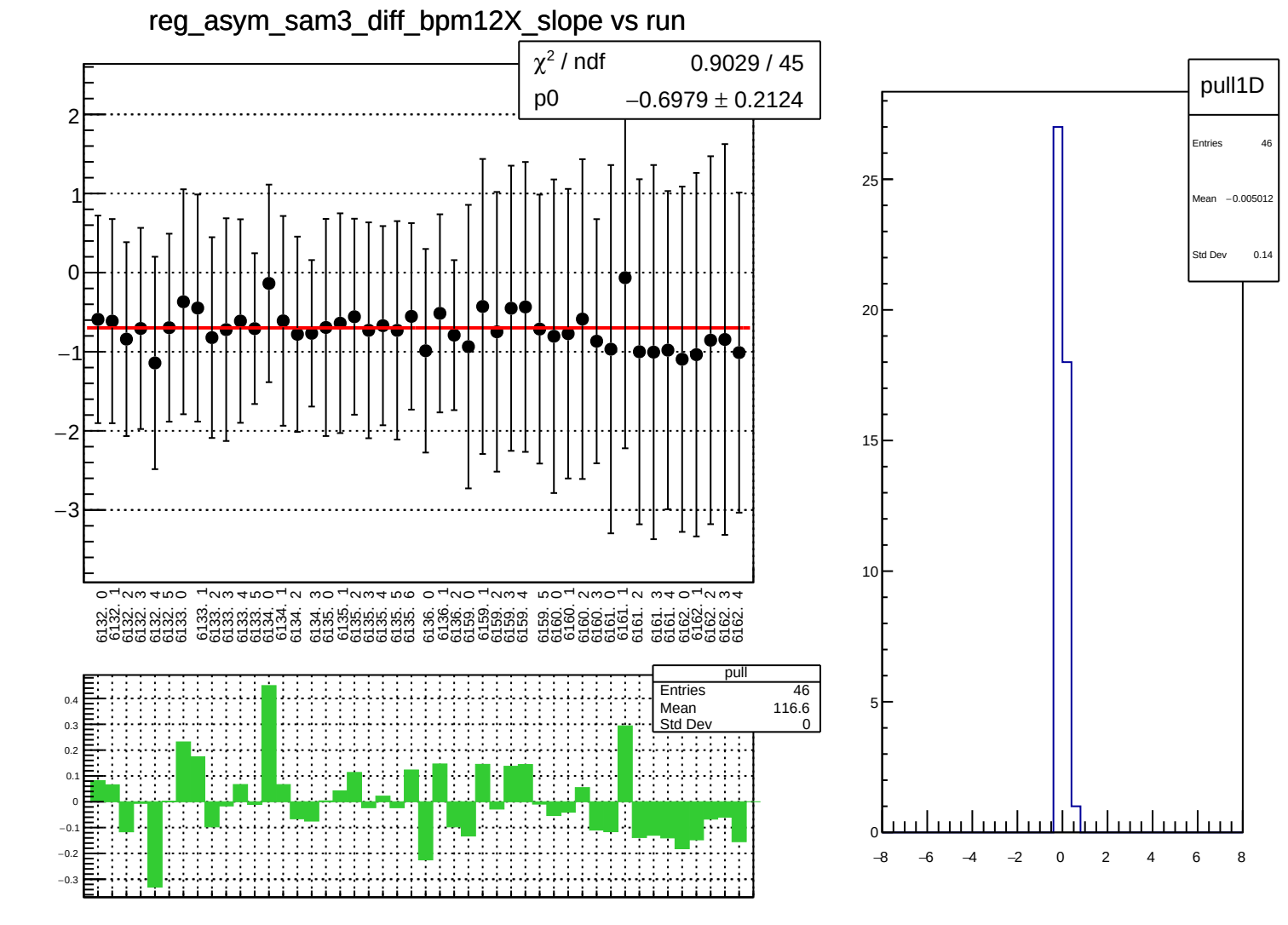

pull1D
Entries 46
Mean 0.06902
Std Dev 0.3487

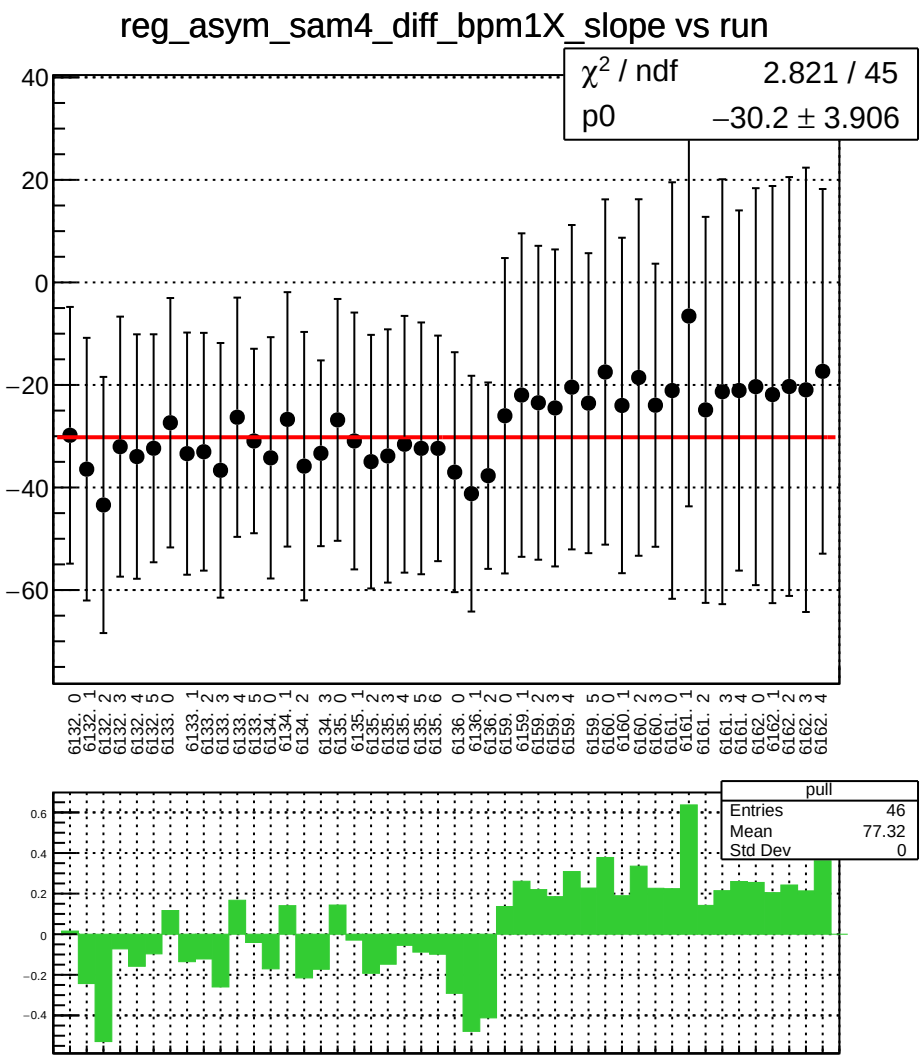

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 11.86 / 45
p0 −94.96 ± 2.626
pull
Entries 46
Mean 72.88
Std Dev 0

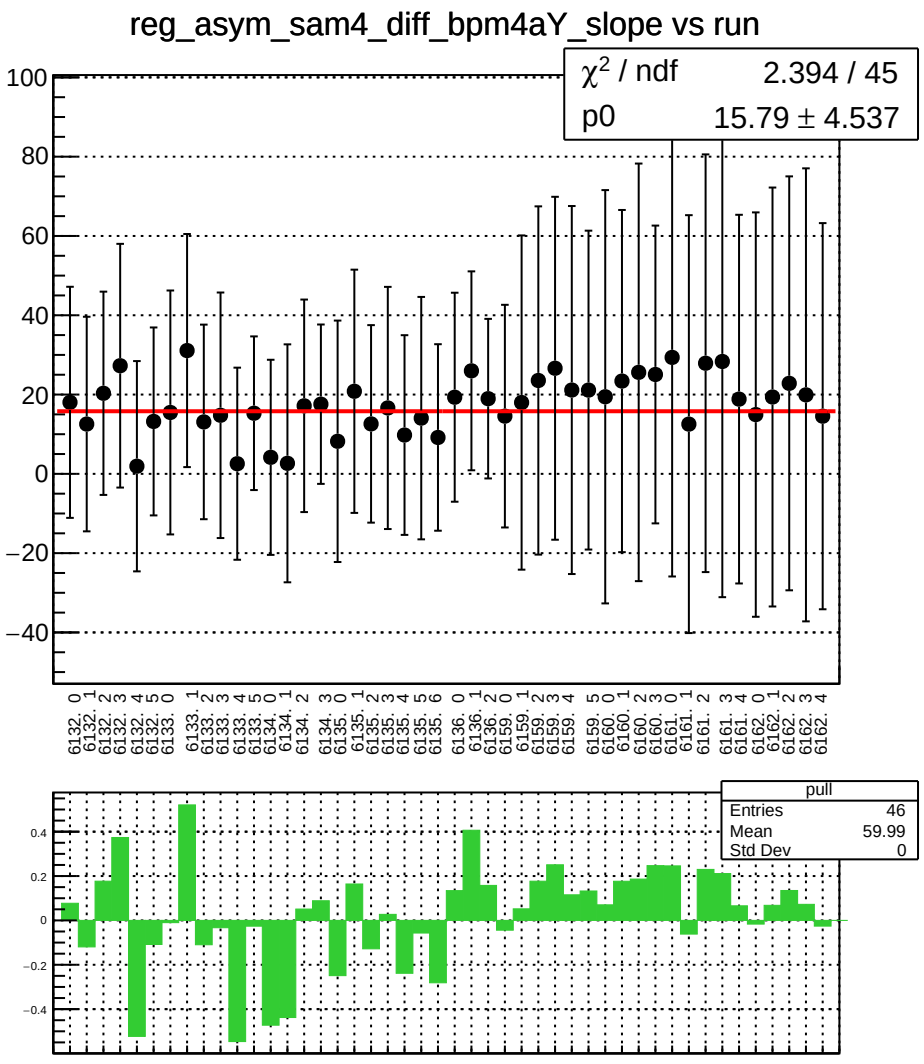

pull1D
Entries 46
Mean −0.09725
Std Dev 0.4983

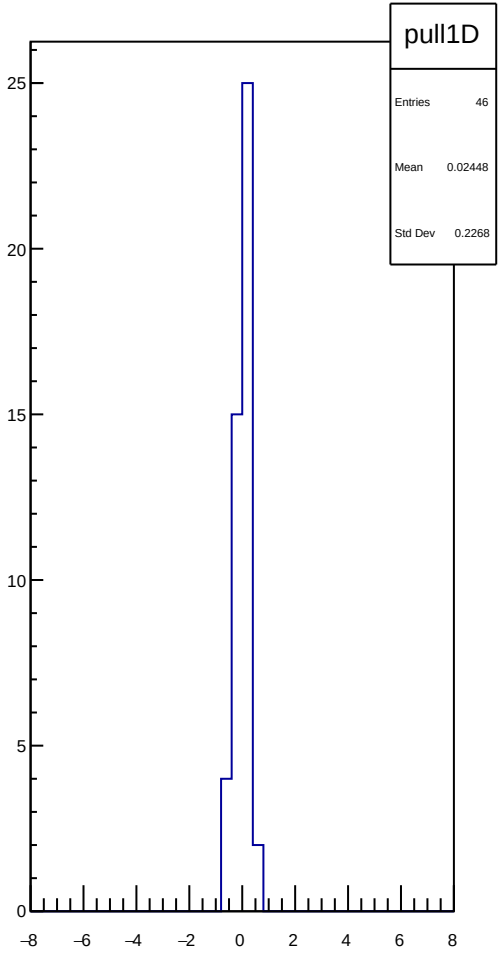

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 9.628 / 45
p0 26.84 ± 2.653
pull
Entries 46
Mean 67.04
Std Dev 0

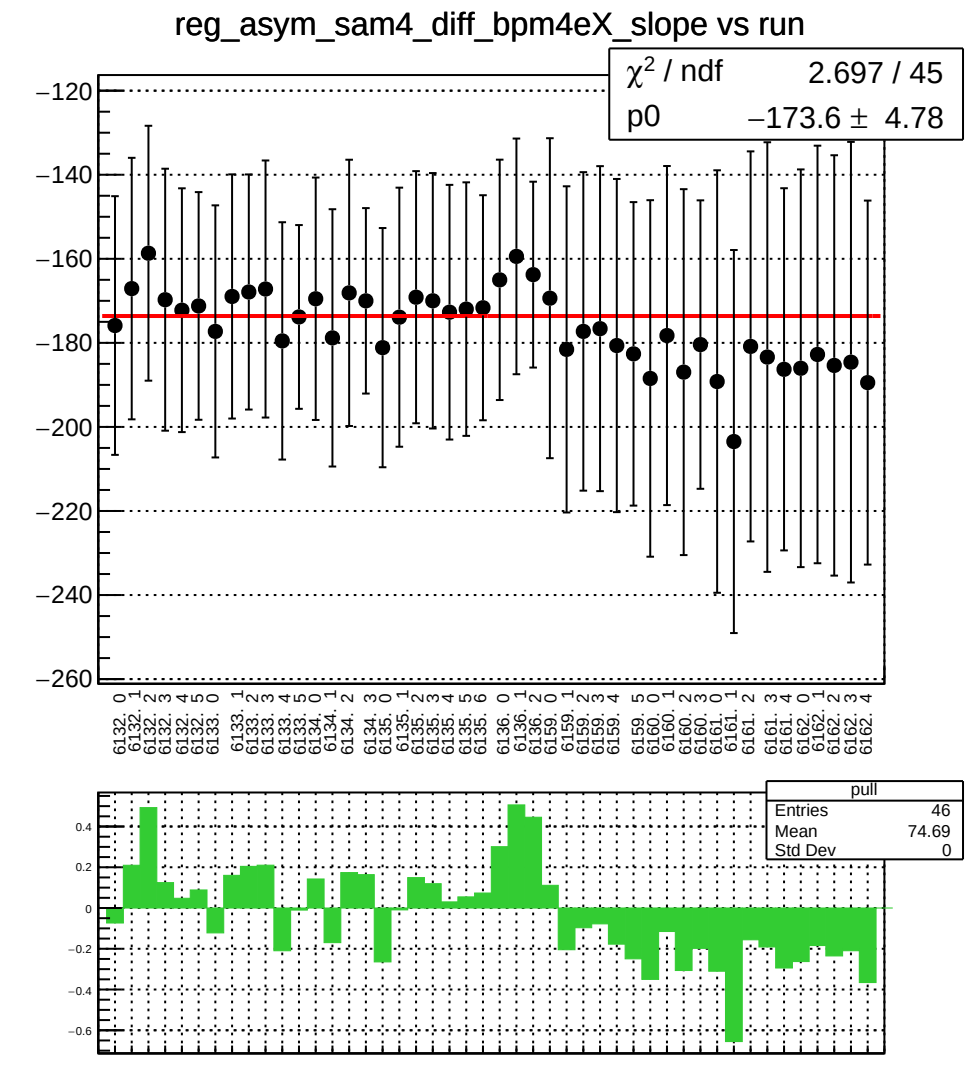

pull1D
Entries 46
Mean −0.09541
Std Dev 0.4474

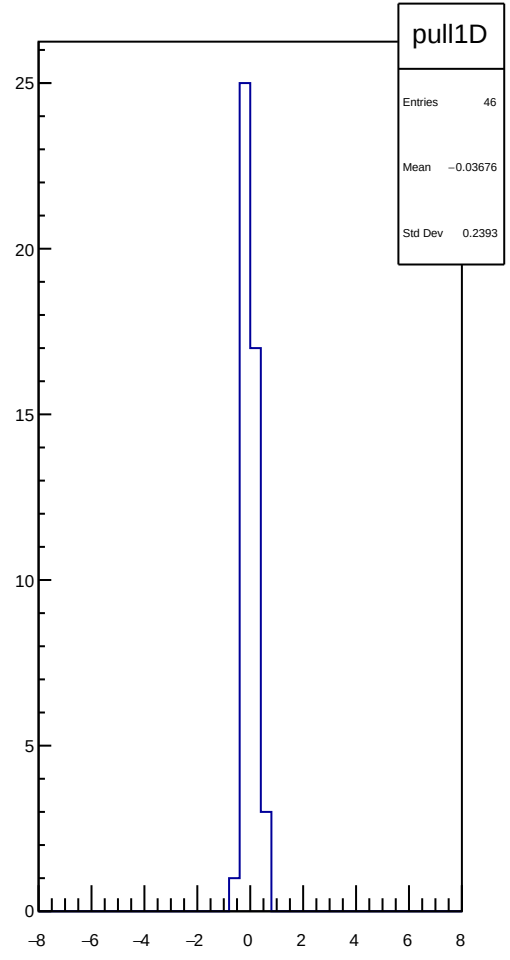

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 0.9029 / 45
p0 −0.6979 ± 0.2124
pull
Entries 46
Mean 116.6
Std Dev 0
pull1D
Entries 46
Mean −0.005012
Std Dev 0.14

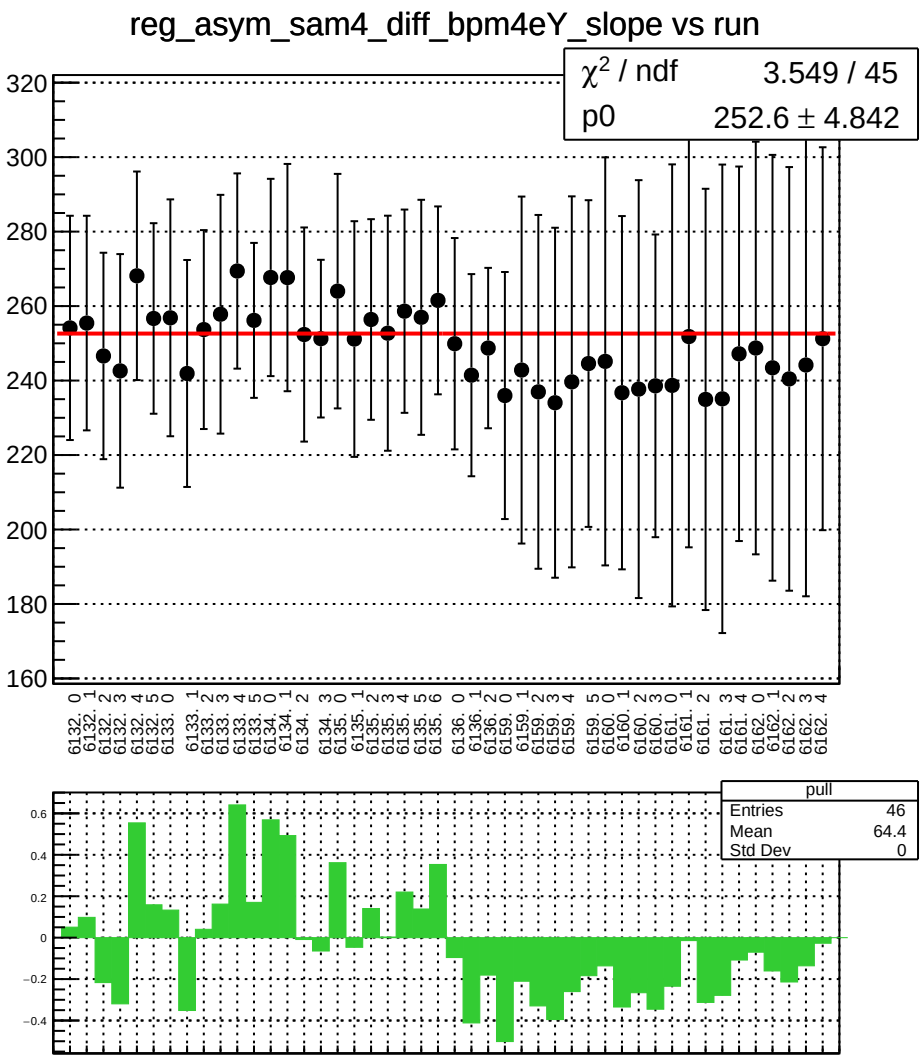

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 2.821 / 45
p0 −30.2 ± 3.906
40
20
0
−20
−40
−60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 77.32
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 46
Mean 0.0391
Std Dev 0.2445
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

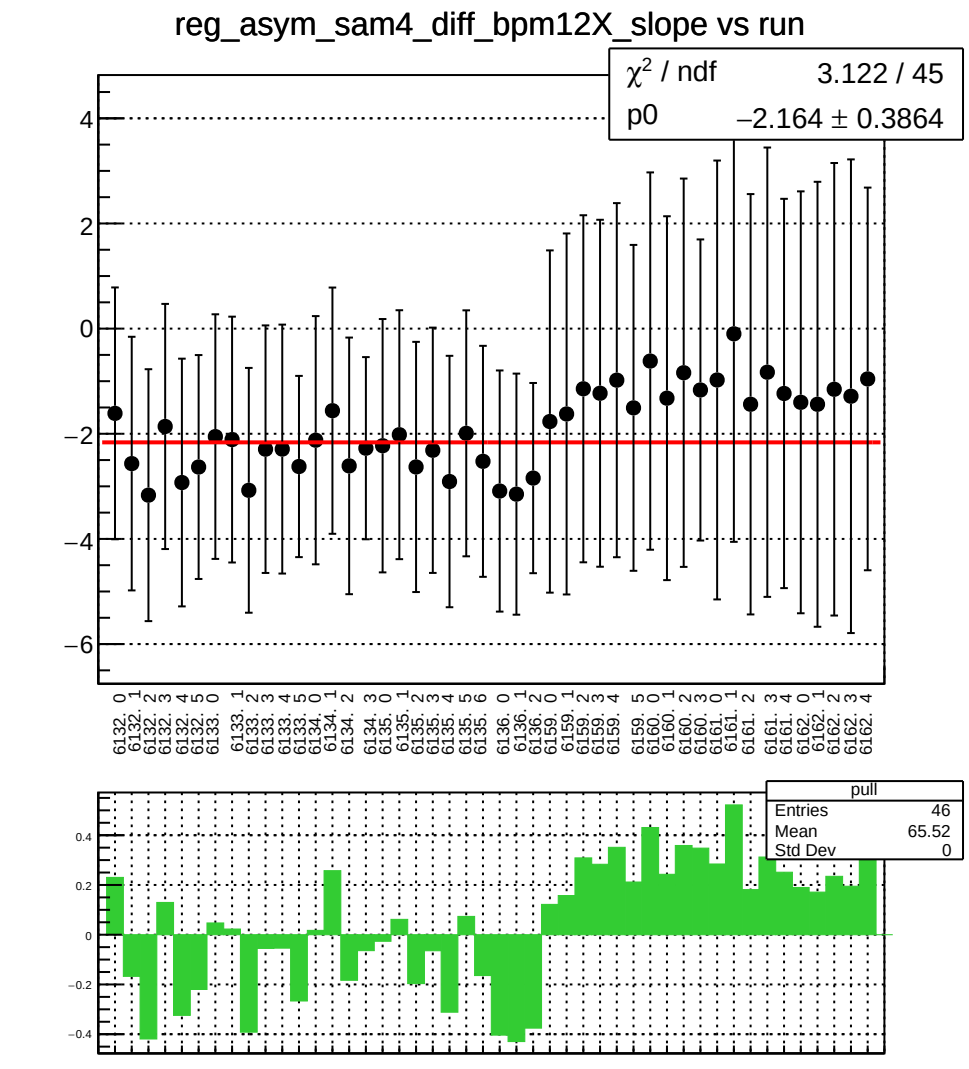

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 2.394 / 45
p0 15.79 ± 4.537
pull
Entries 46
Mean 59.99
Std Dev 0

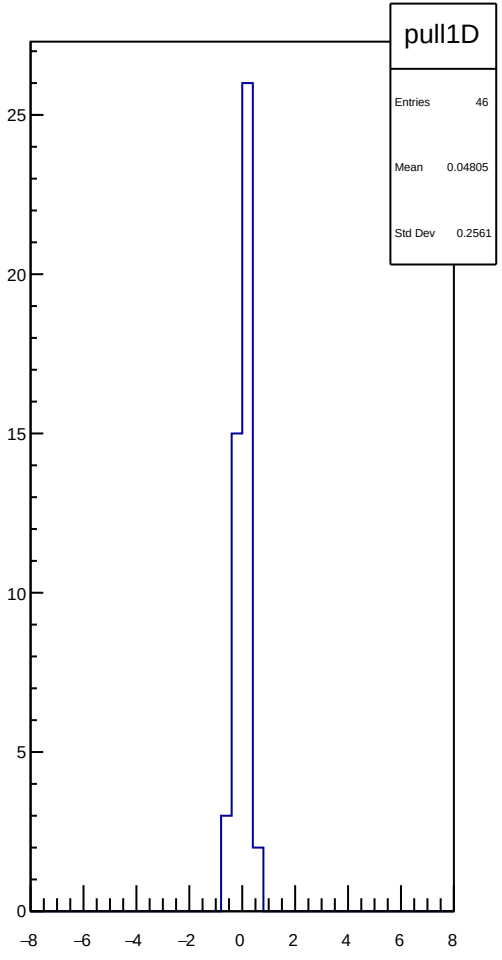

pull1D
Entries 46
Mean 0.02448
Std Dev 0.2268

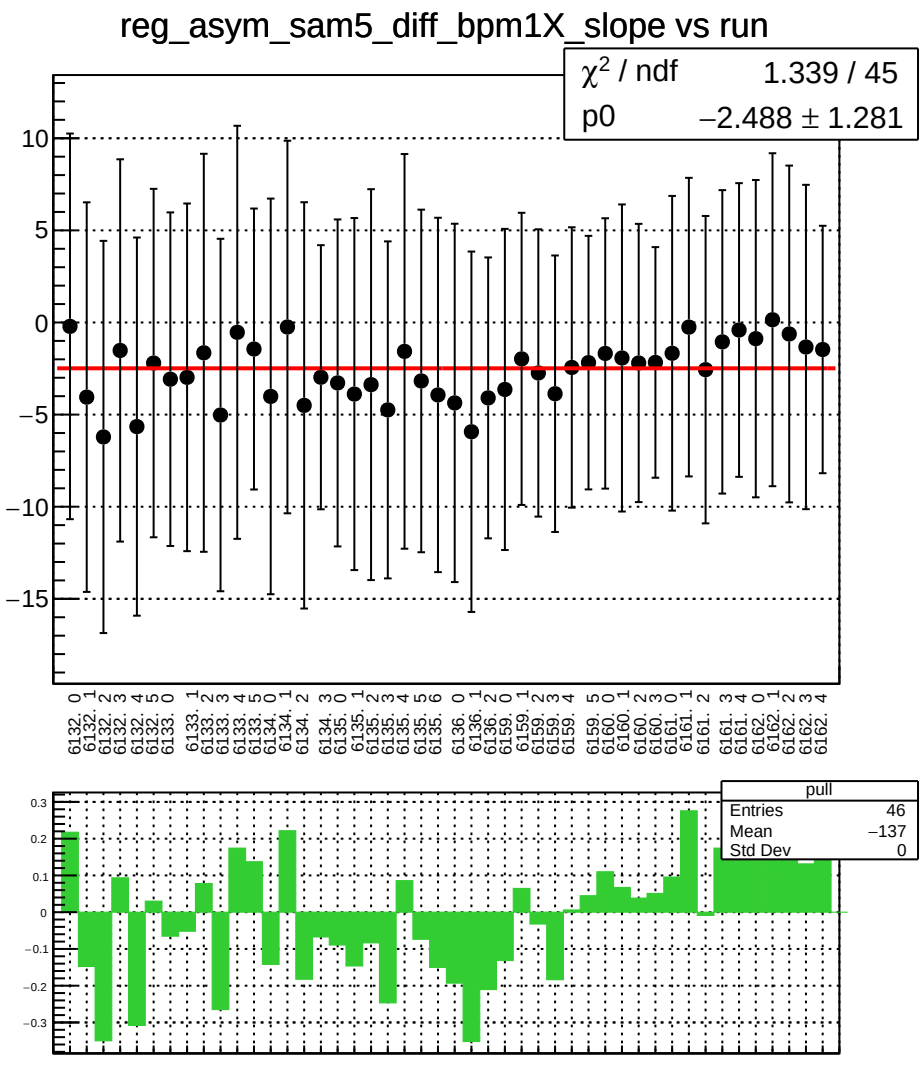

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 2.697 / 45
p0 −173.6 ± 4.78
pull
Entries 46
Mean 74.69
Std Dev 0

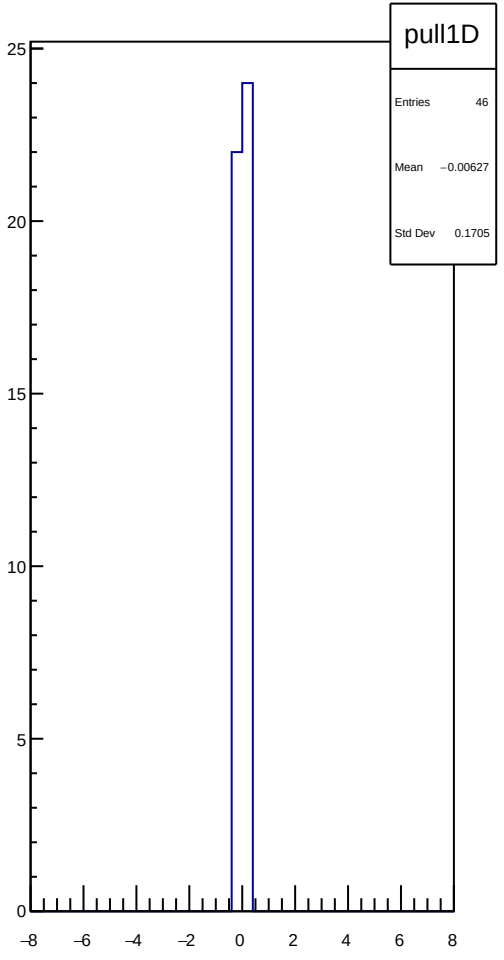

pull1D
Entries 46
Mean −0.03676
Std Dev 0.2393

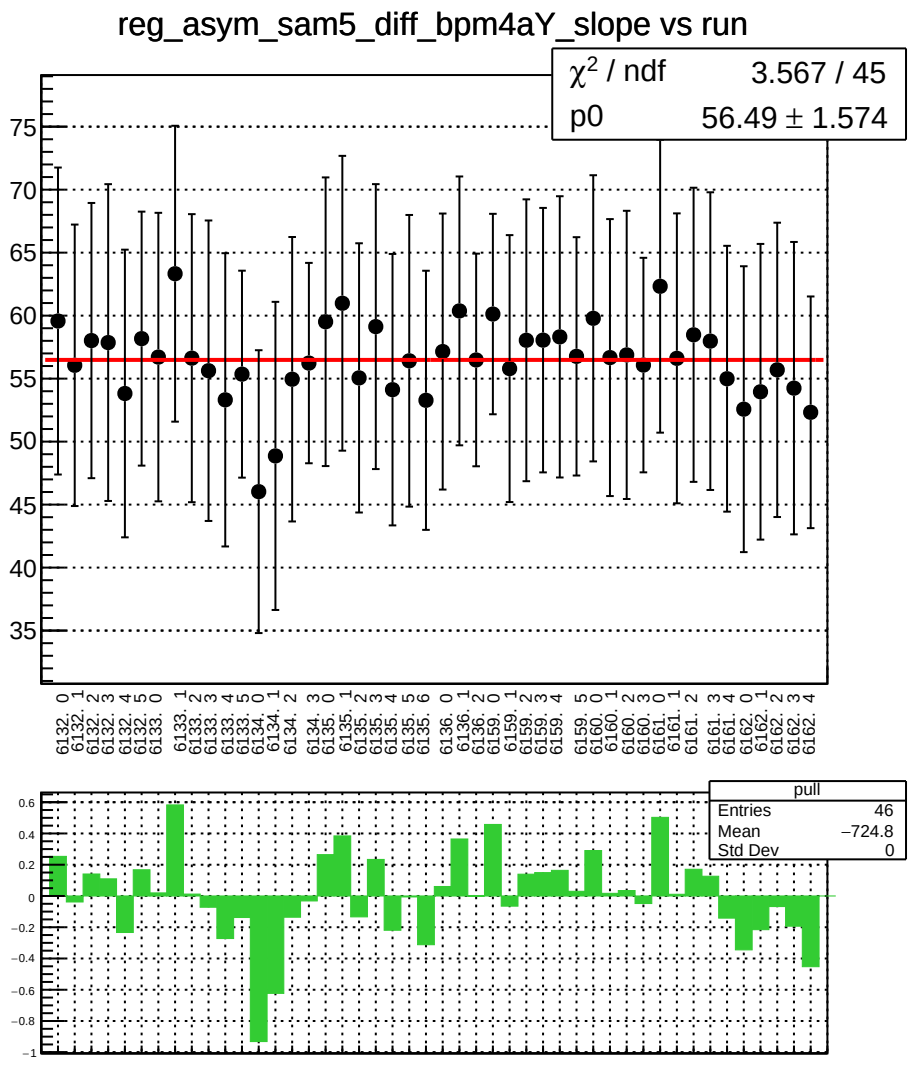

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 3.549 / 45
p0 252.6 ± 4.842
320
300
280
260
240
220
200
180
160
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 64.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 46
Mean −0.04189
Std Dev 0.2746
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

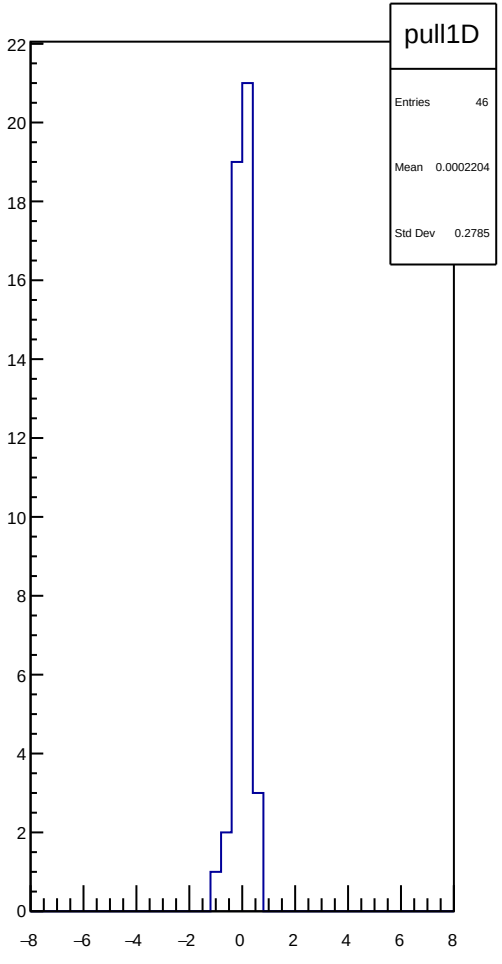

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 3.122 / 45
p0 −2.164 ± 0.3864
pull
Entries 46
Mean 65.52
Std Dev 0

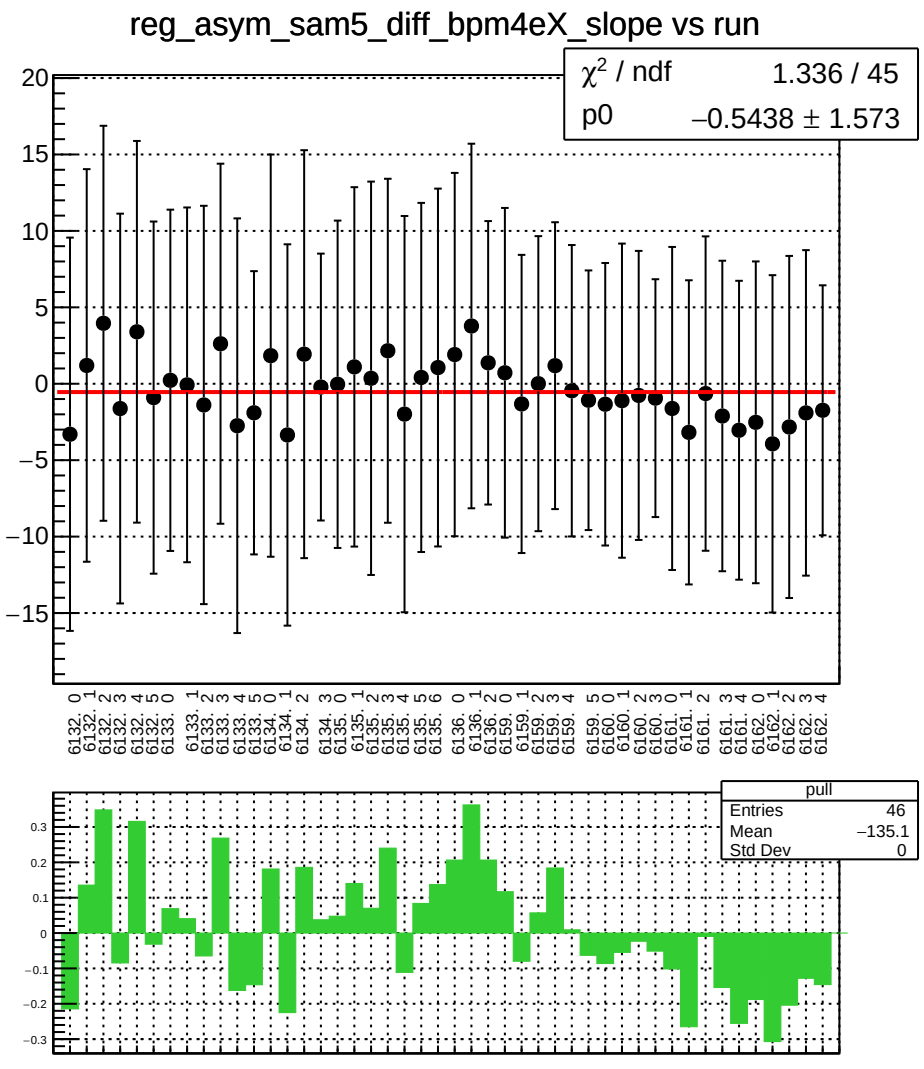

pull1D
Entries 46
Mean 0.04805
Std Dev 0.2561

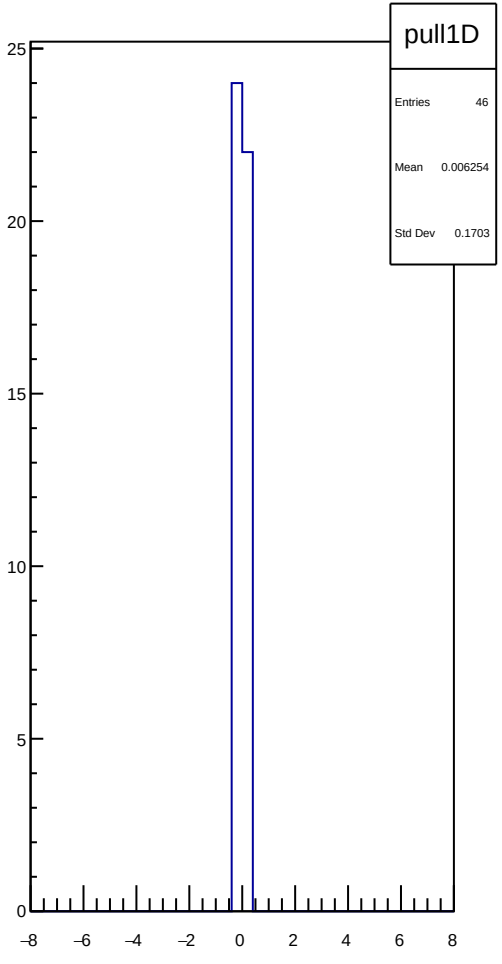

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 1.339 / 45
p0 −2.488 ± 1.281
pull
Entries 46
Mean −137
Std Dev 0

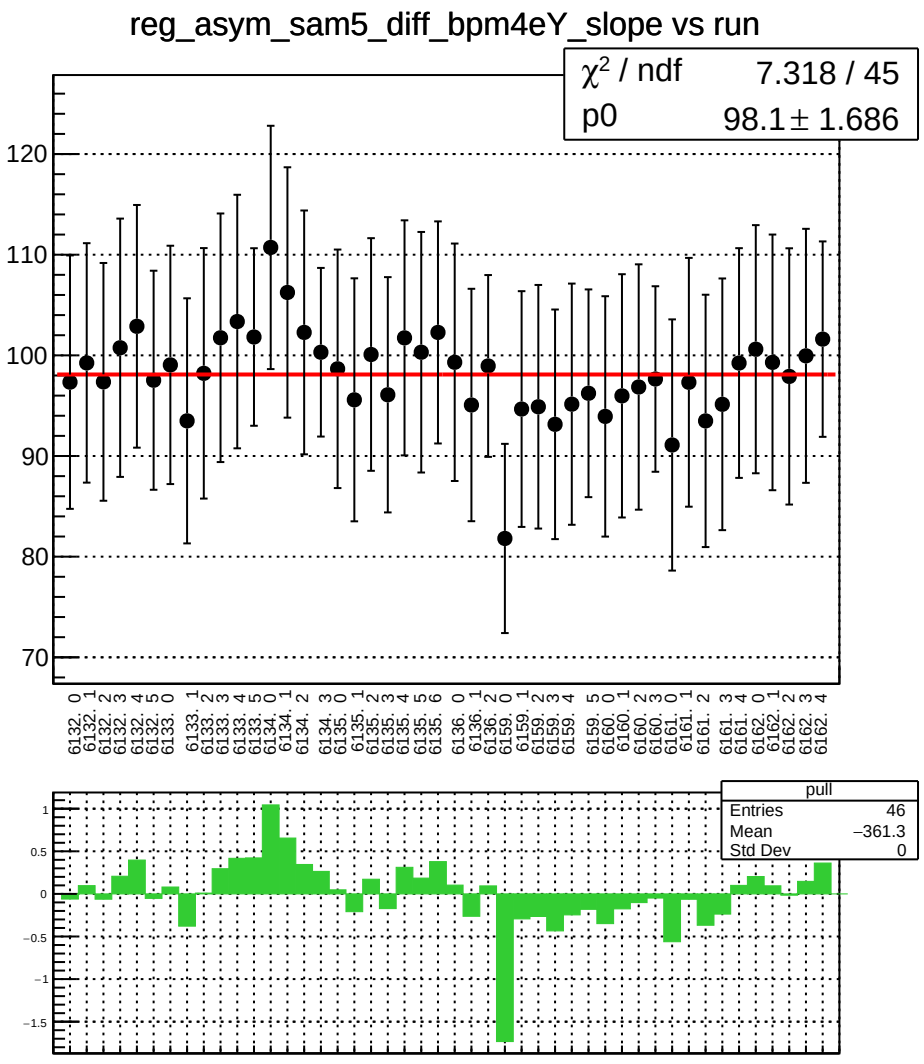

pull1D
Entries 46
Mean −0.00627
Std Dev 0.1705

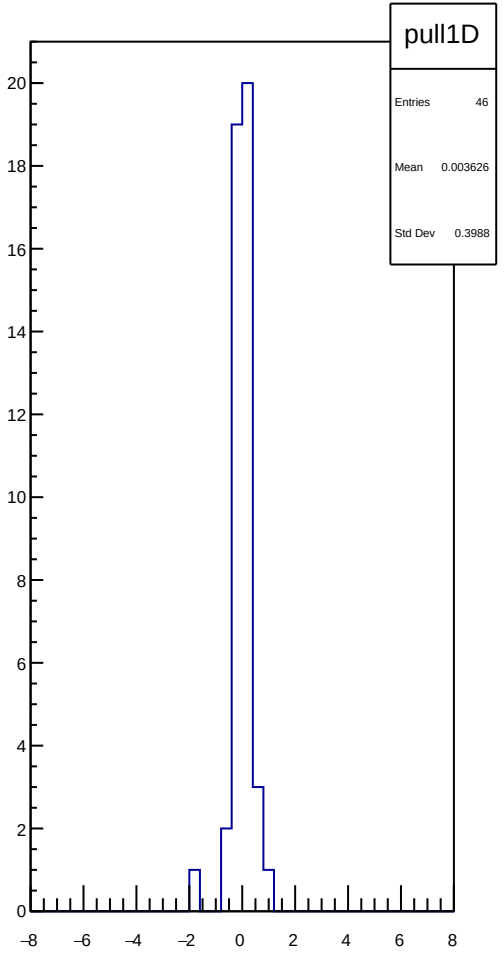

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 3.567 / 45
p0 56.49 ± 1.574
pull
Entries 46
Mean −724.8
Std Dev 0

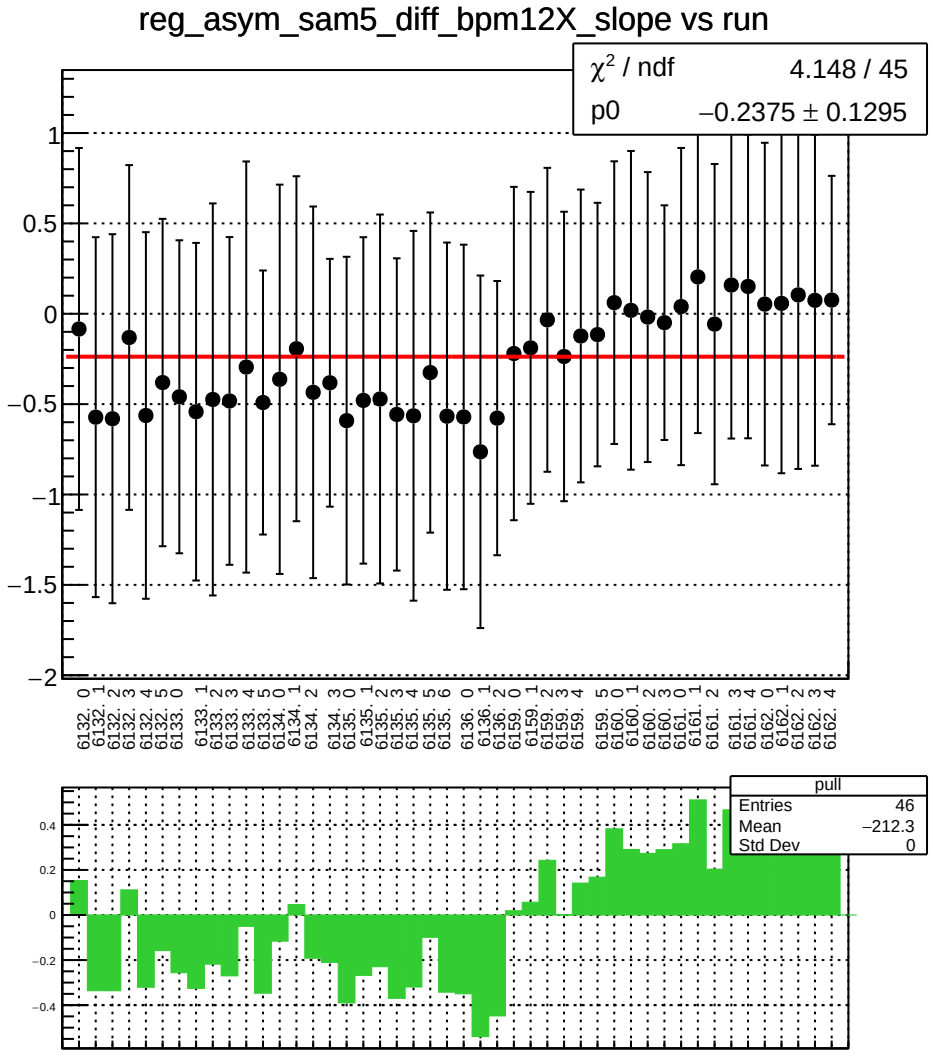

pull1D
Entries 46
Mean 0.0002204
Std Dev 0.2785

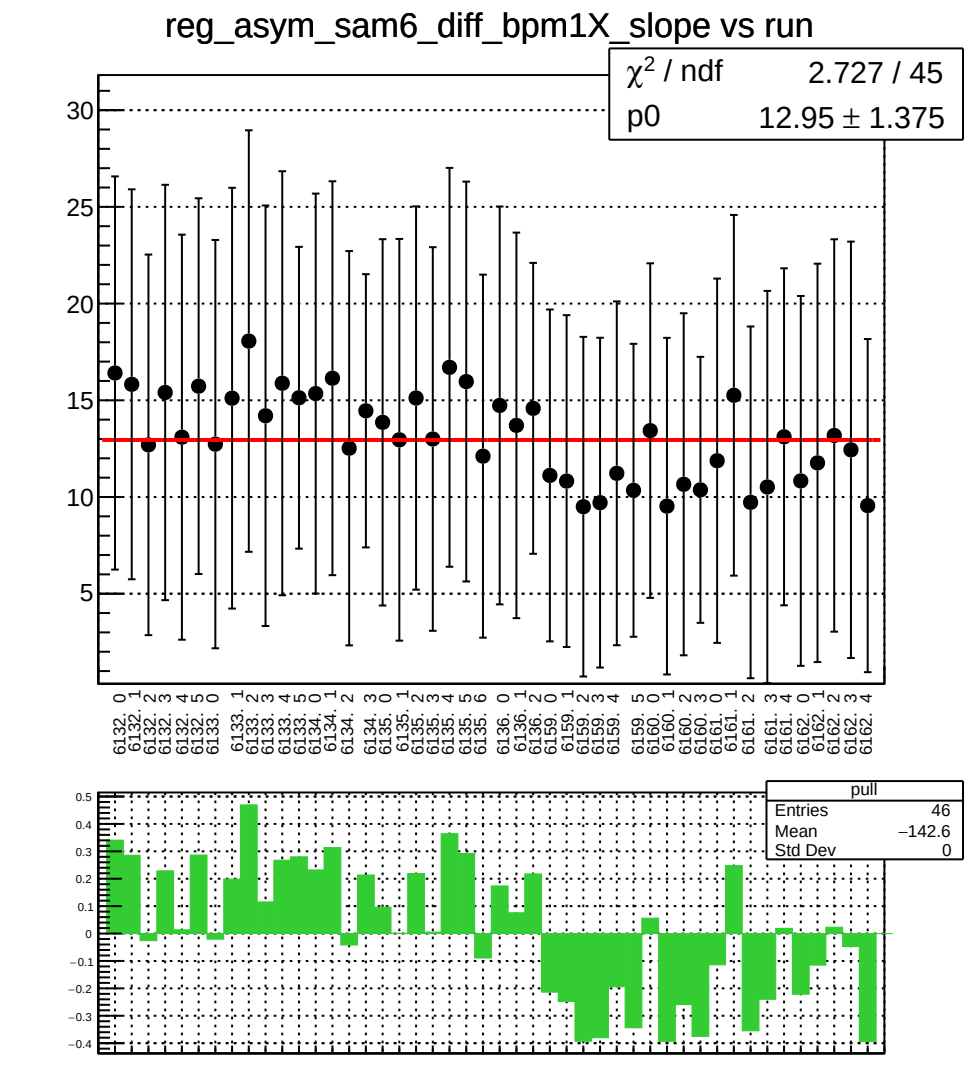

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 1.336 / 45
p0 −0.5438 ± 1.573
pull
Entries 46
Mean −135.1
Std Dev 0

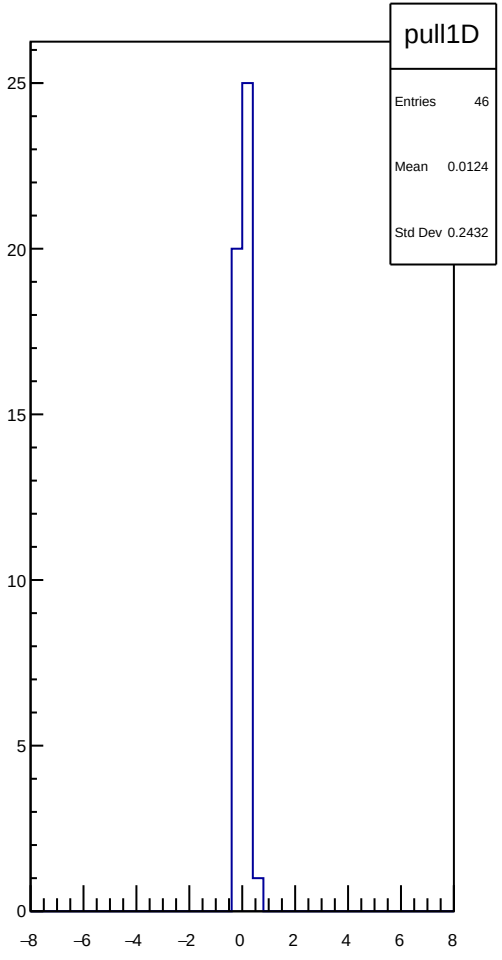

pull1D
Entries 46
Mean 0.006254
Std Dev 0.1703

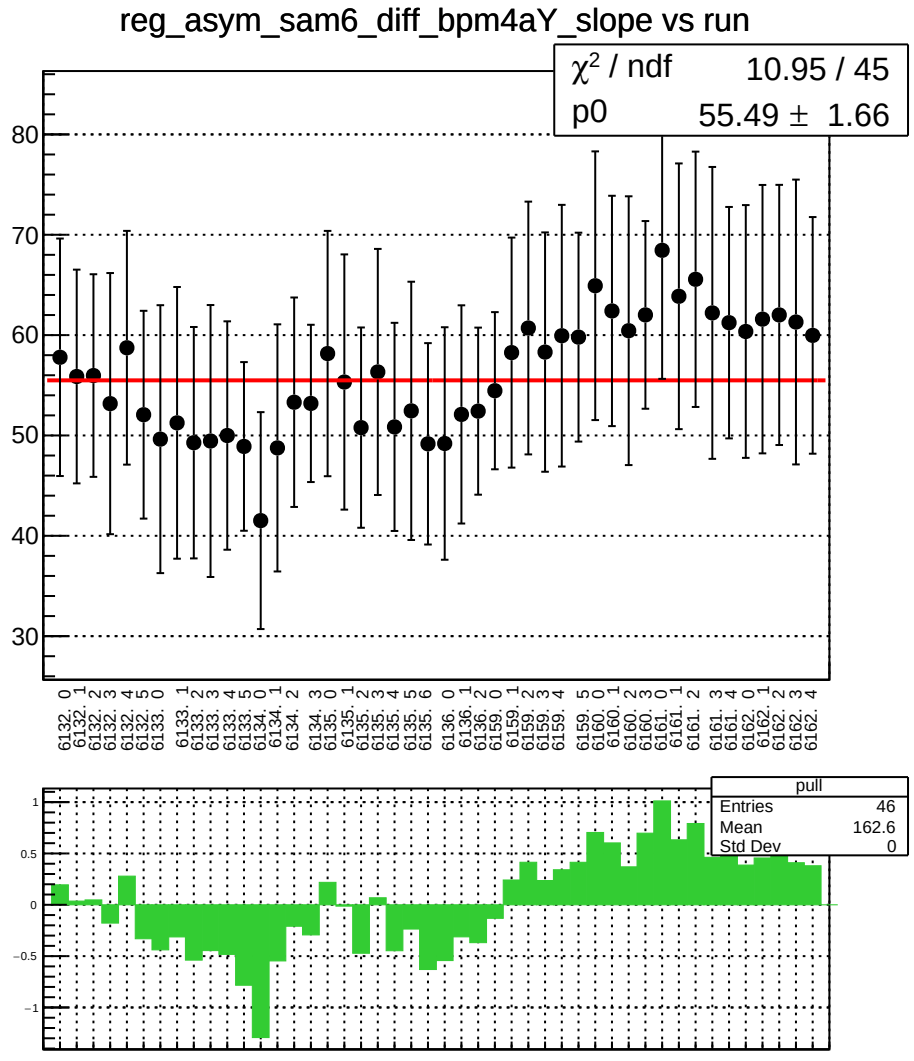

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 7.318 / 45
p0 98.1 ± 1.686
120
110
100
90
80
70
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −361.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

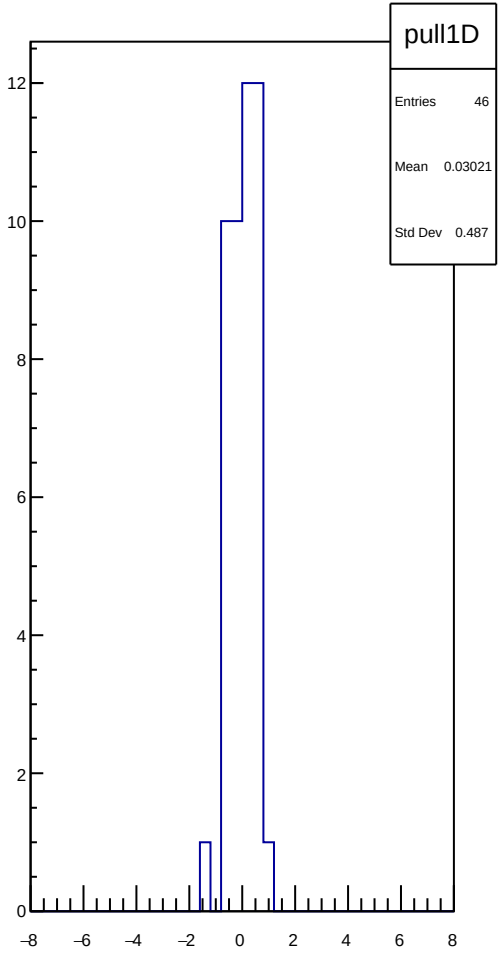

pull1D
Entries 46
Mean 0.003626
Std Dev 0.3988
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

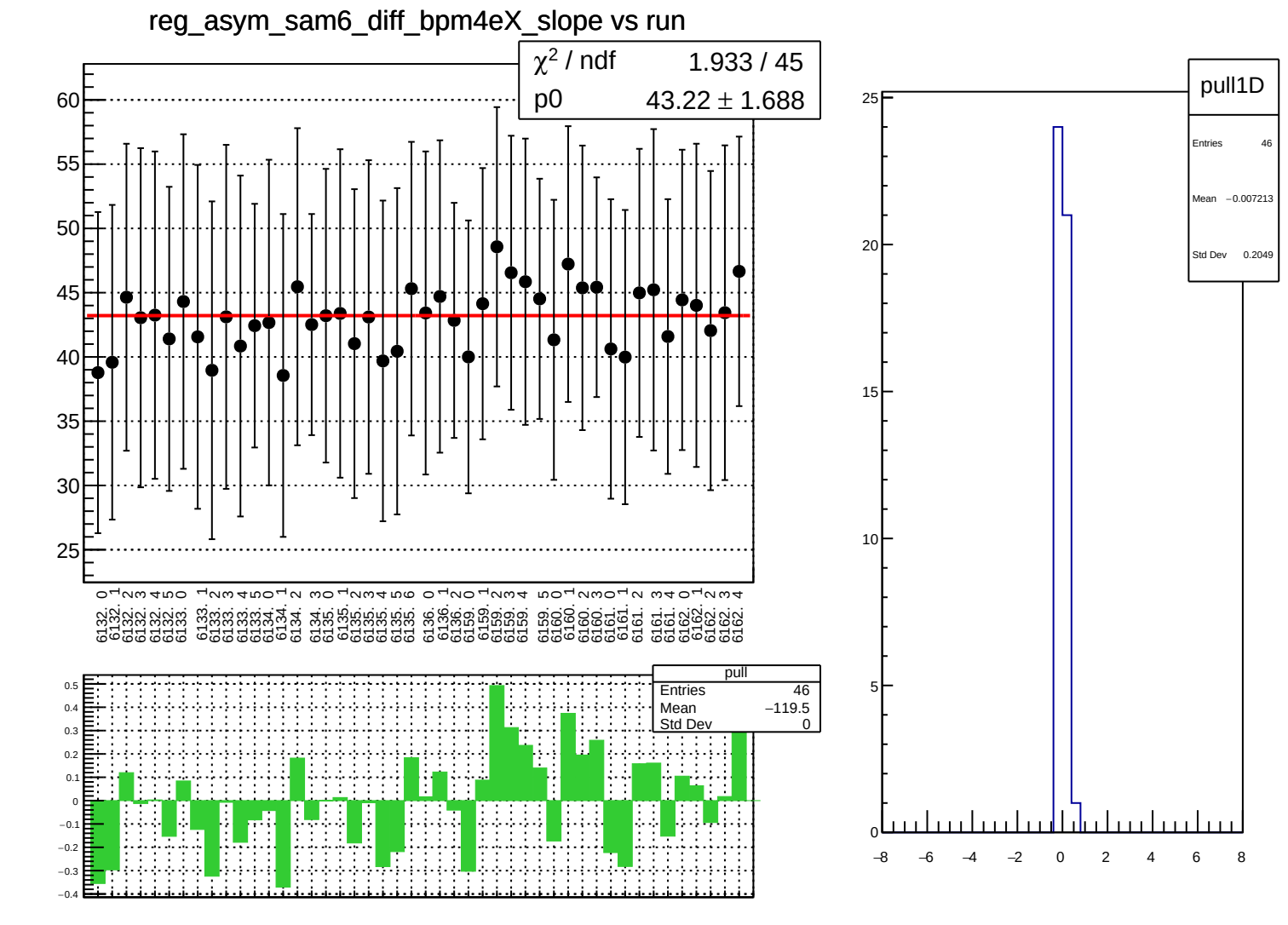

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 4.148 / 45
p0 −0.2375 ± 0.1295
pull
Entries 46
Mean −212.3
Std Dev 0
pull1D
Entries 46
Mean −0.01224
Std Dev 0.3

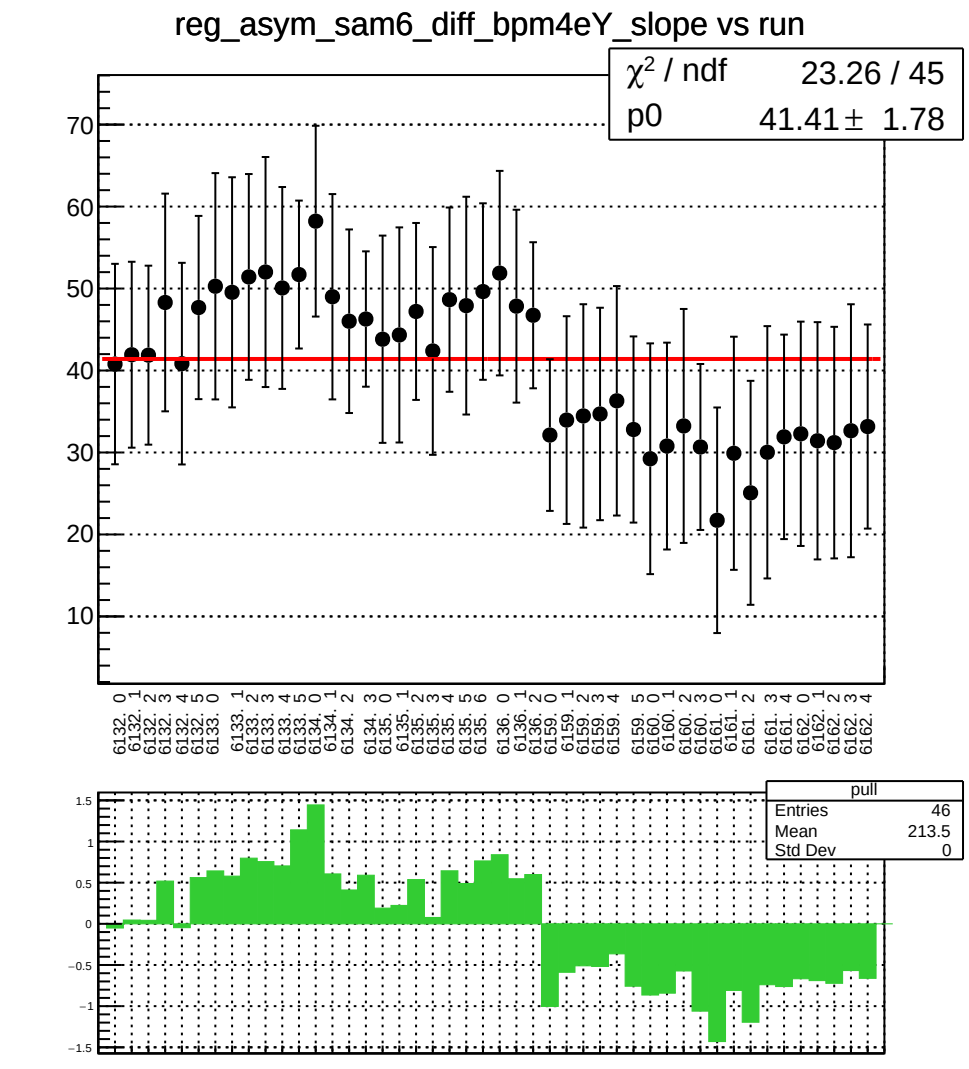

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 2.727 / 45
p0 12.95 ± 1.375
pull
Entries 46
Mean −142.6
Std Dev 0

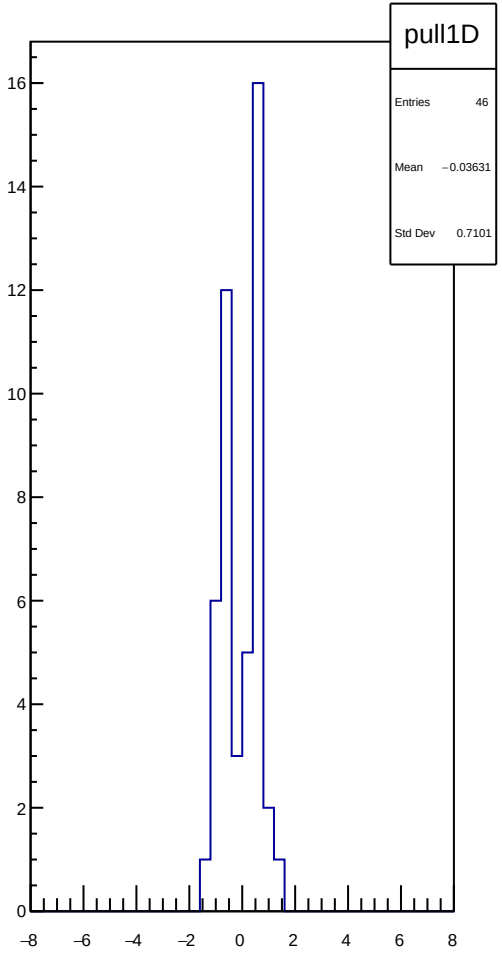

pull1D
Entries 46
Mean 0.0124
Std Dev 0.2432

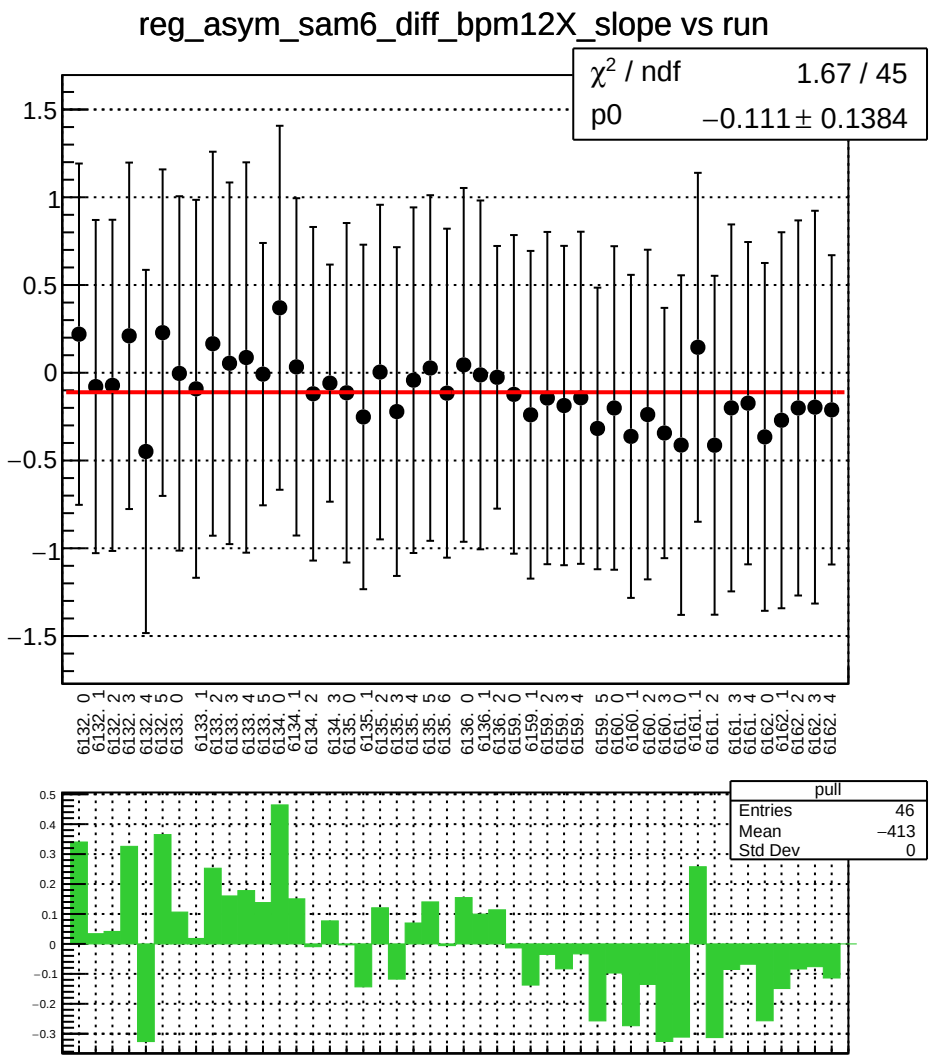

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 10.95 / 45
p0 55.49 ± 1.66
pull
Entries 46
Mean 162.6
Std Dev 0

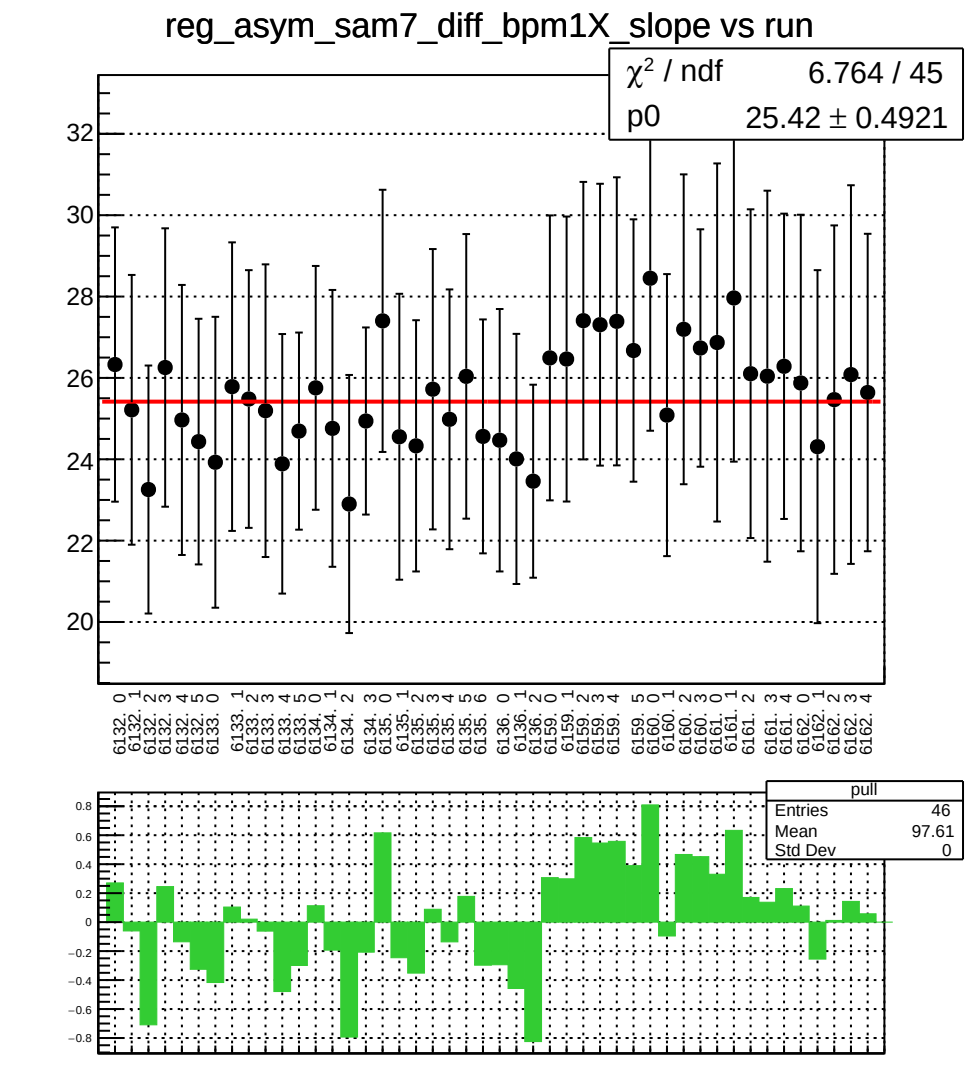

pull1D
Entries 46
Mean 0.03021
Std Dev 0.487

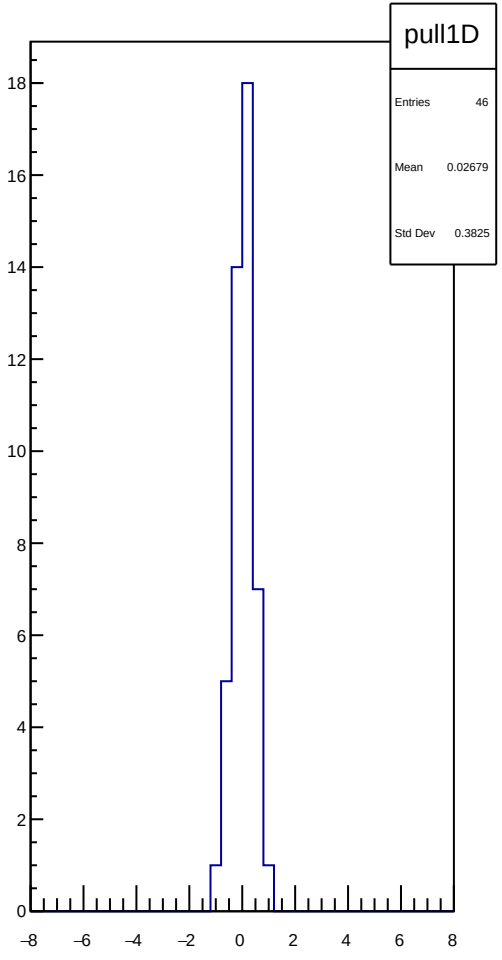

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 1.933 / 45
p0 43.22 ± 1.688
pull
Entries 46
Mean −119.5
Std Dev 0
pull1D
Entries 46
Mean −0.007213
Std Dev 0.2049

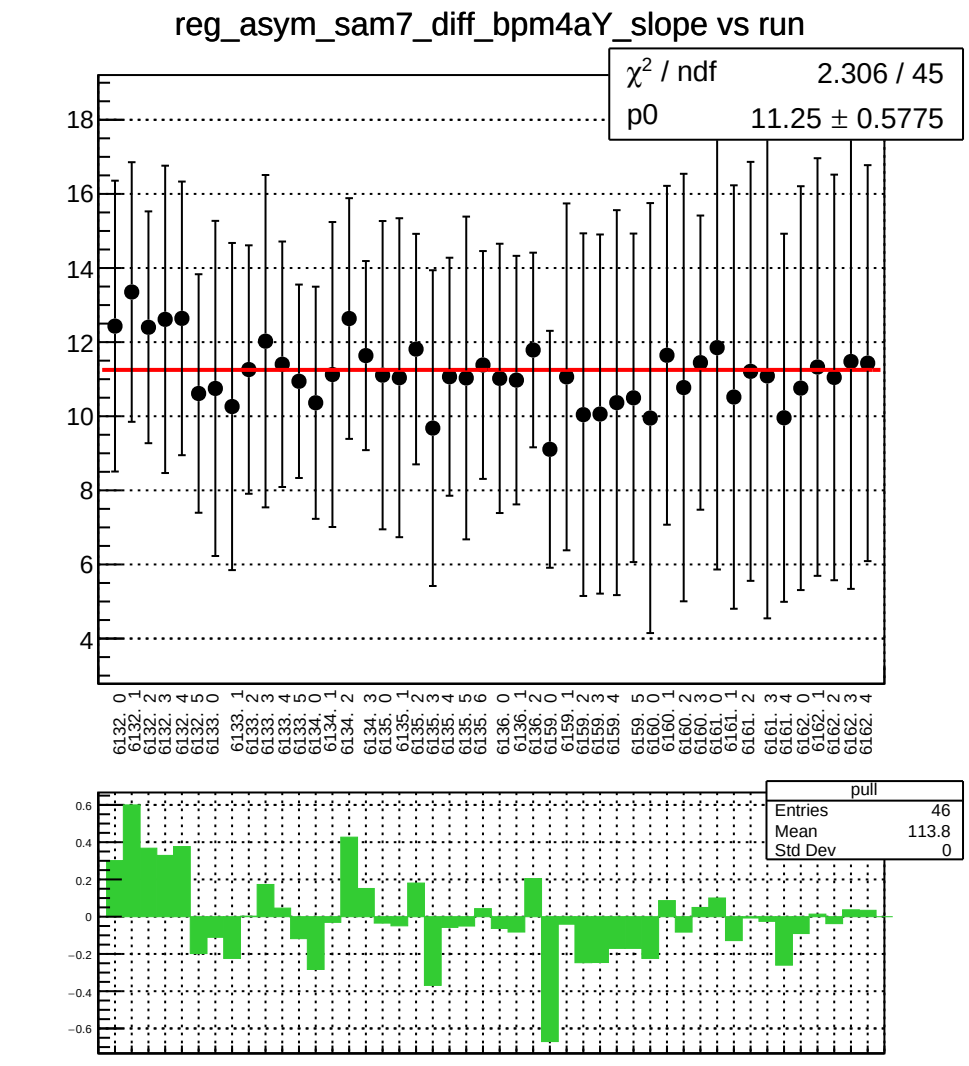

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 23.26 / 45
p0 41.41 ± 1.78
pull
Entries 46
Mean 213.5
Std Dev 0

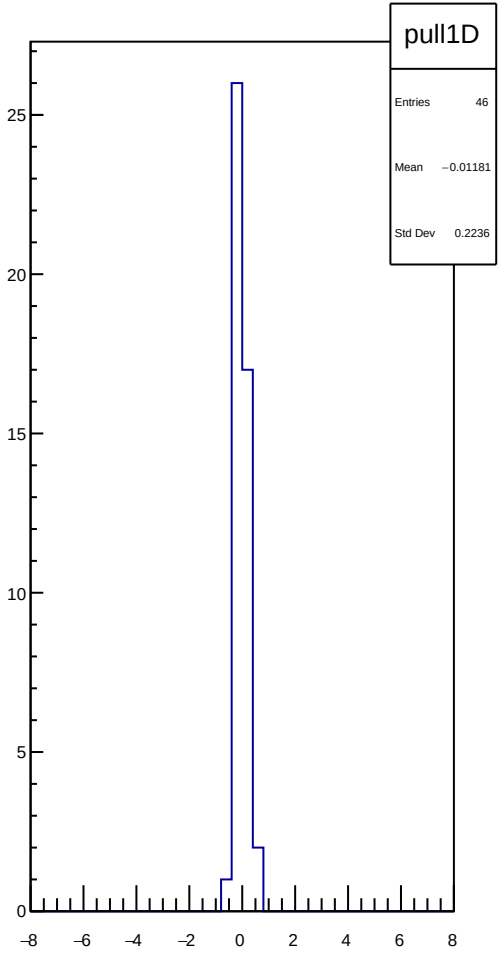

pull1D
Entries 46
Mean −0.03631
Std Dev 0.7101

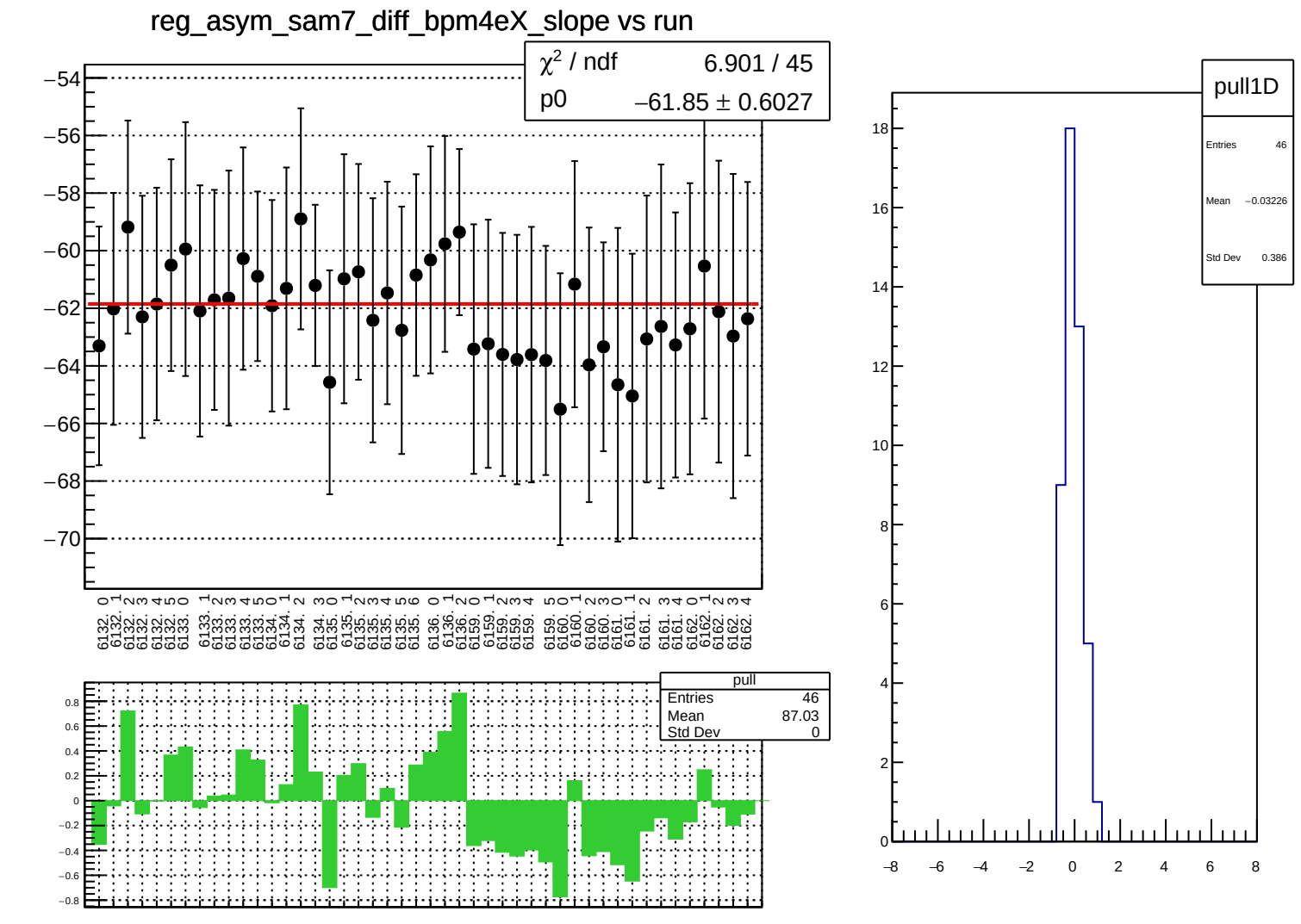

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 1.67 / 45
p0 −0.111 ± 0.1384
pull
Entries 46
Mean −413
Std Dev 0
pull1D
Entries 46
Mean 0.003408
Std Dev 0.1905

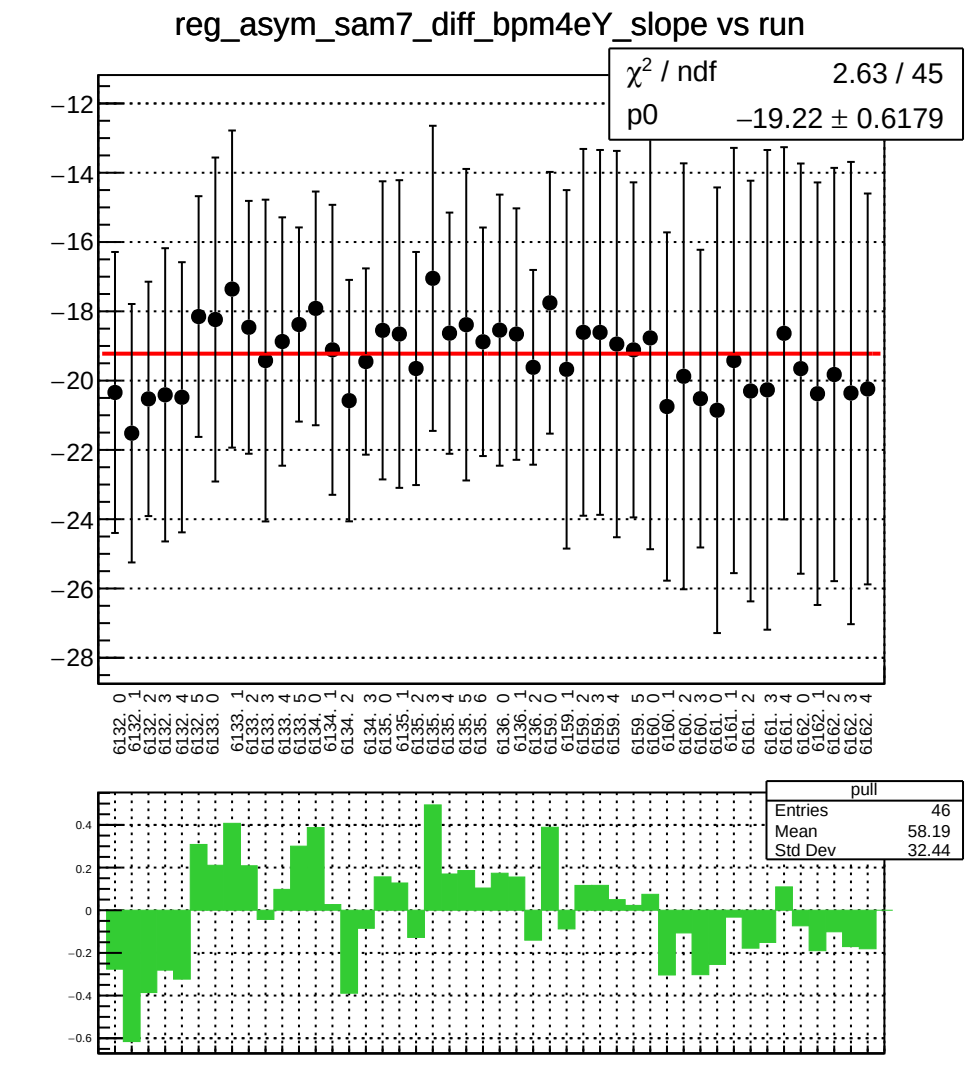

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 6.764 / 45
p0 25.42 ± 0.4921
pull
Entries 46
Mean 97.61
Std Dev 0

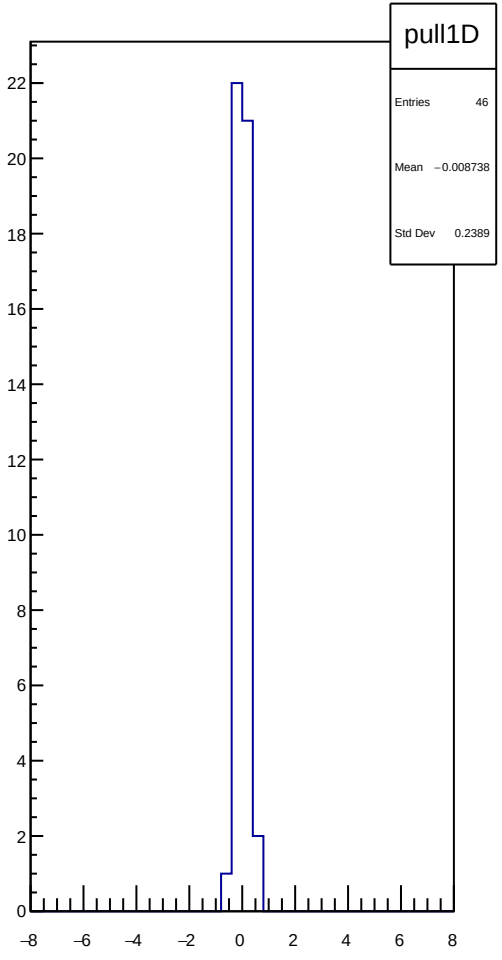

pull1D
Entries 46
Mean 0.02679
Std Dev 0.3825

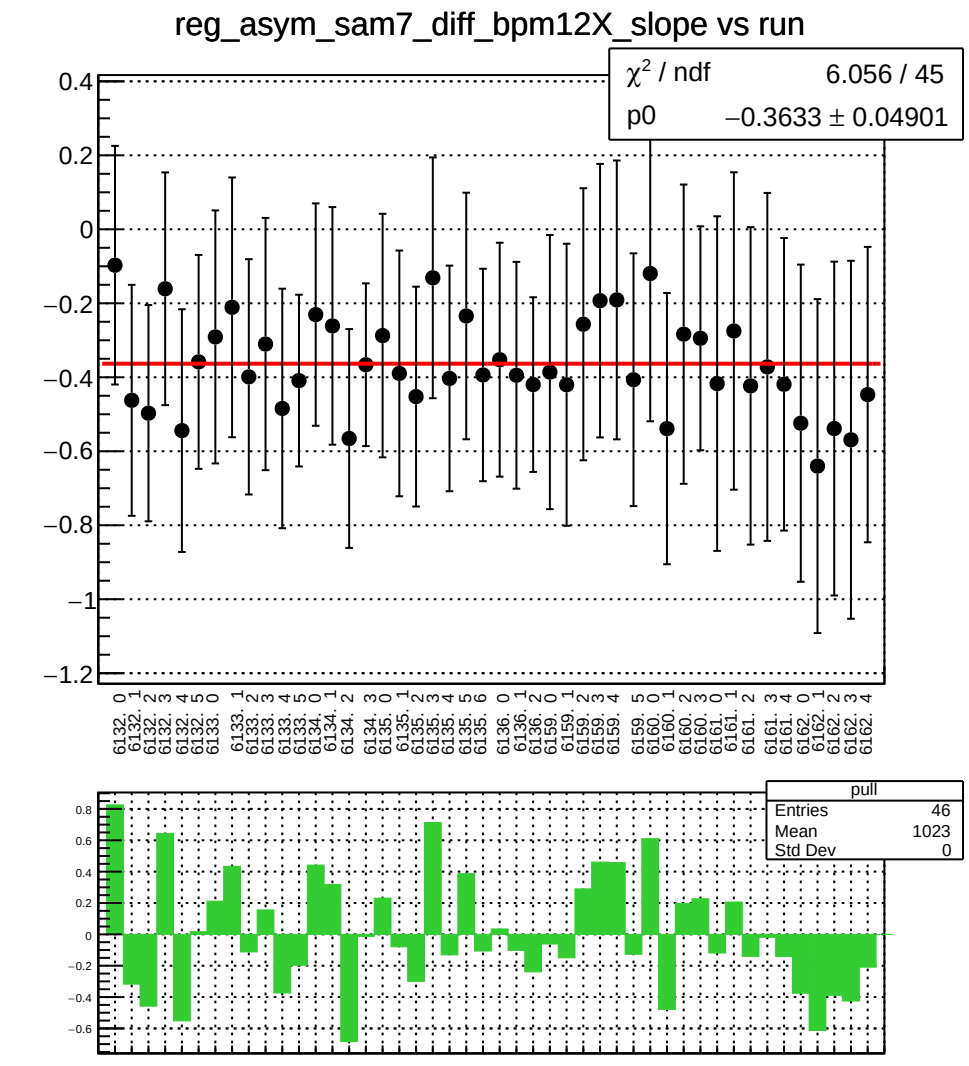

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 2.306 / 45
p0 11.25 ± 0.5775
pull
Entries 46
Mean 113.8
Std Dev 0

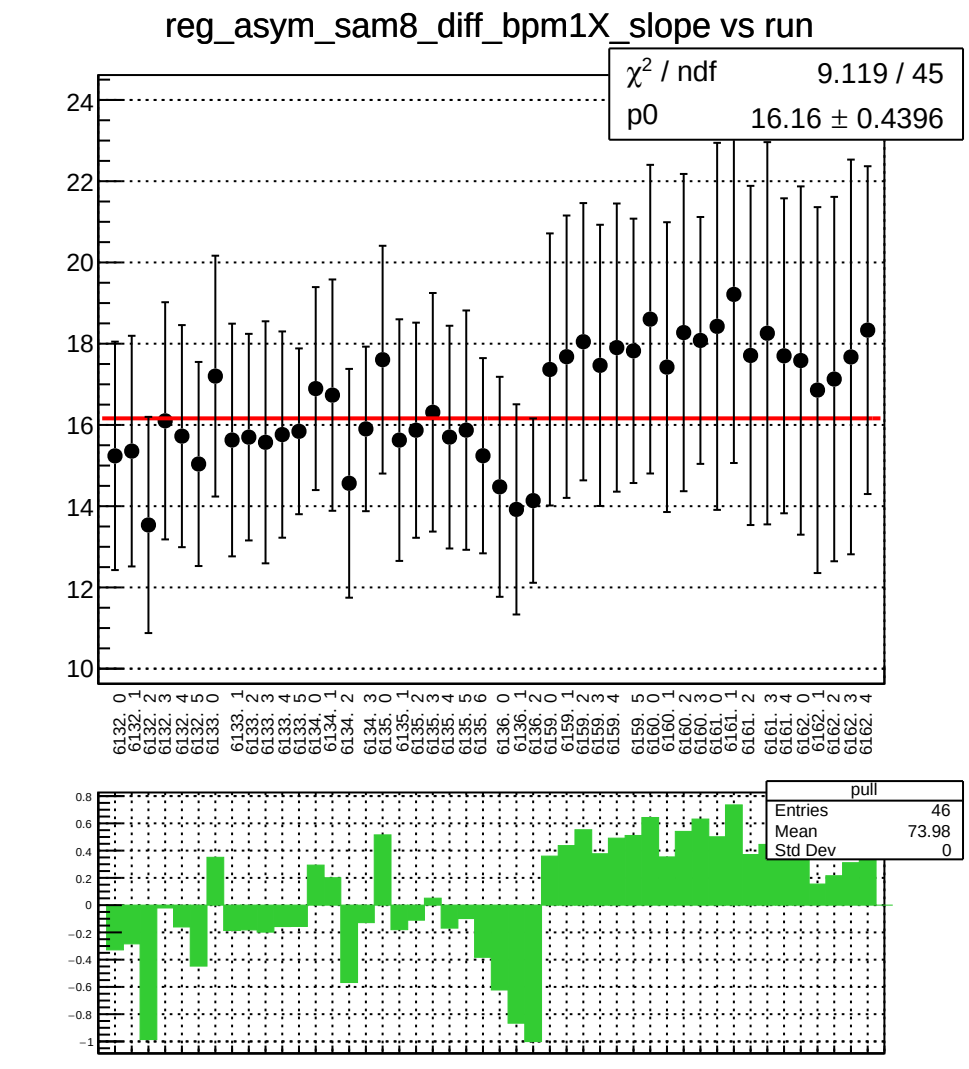

pull1D
Entries 46
Mean −0.01181
Std Dev 0.2236

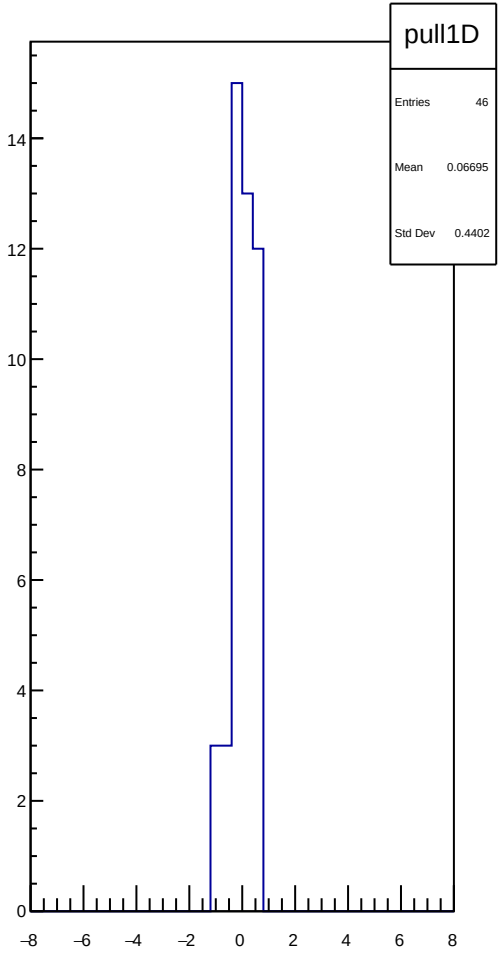

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 6.901 / 45
p0 −61.85 ± 0.6027
pull
Entries 46
Mean 87.03
Std Dev 0
pull1D
Entries 46
Mean −0.03226
Std Dev 0.386

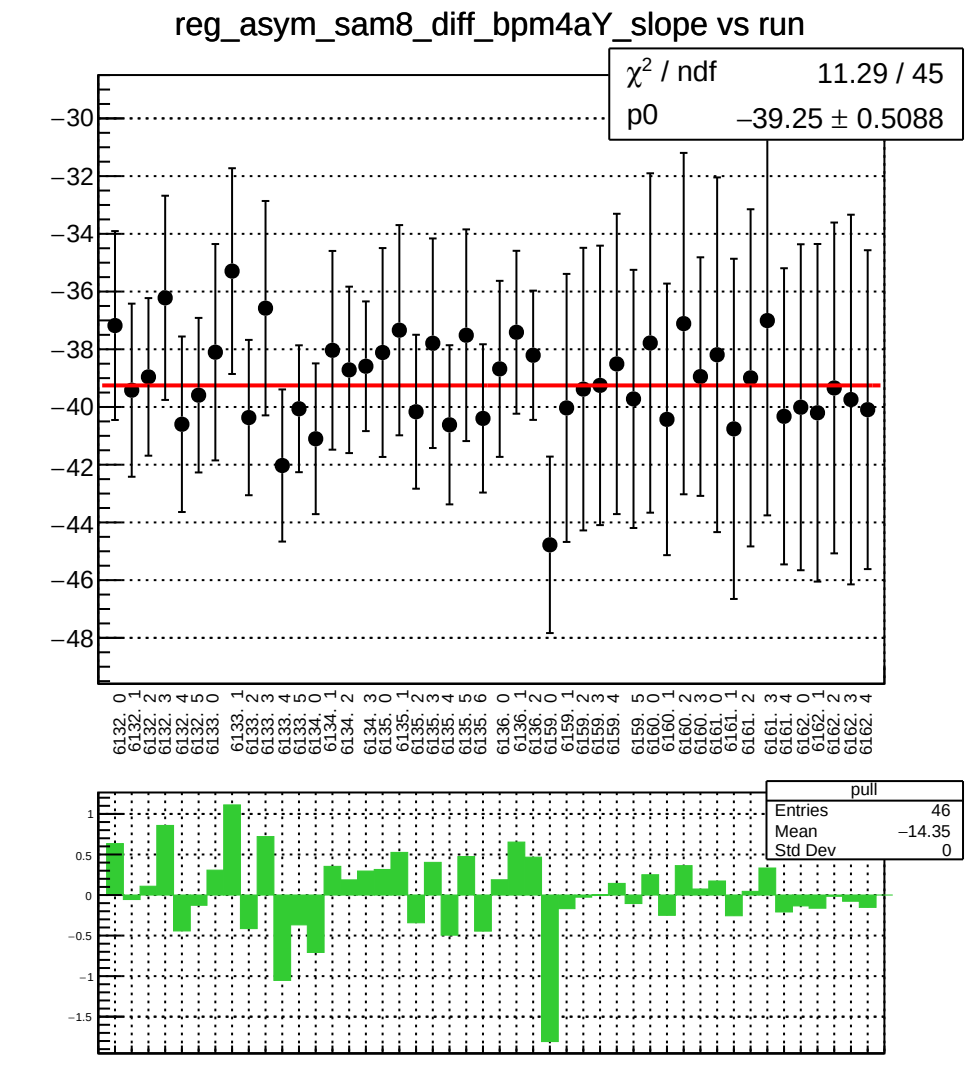

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 2.63 / 45
p0 −19.22 ± 0.6179
pull
Entries 46
Mean 58.19
Std Dev 32.44

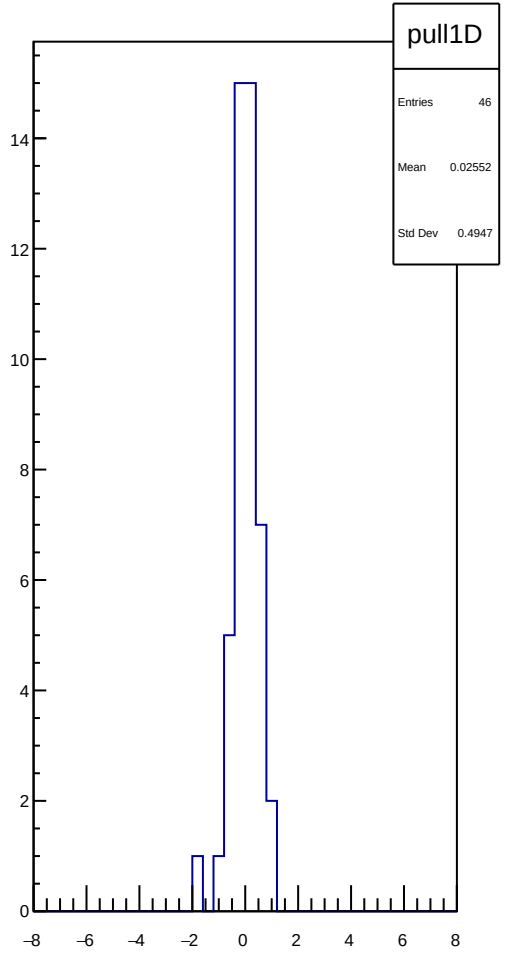

pull1D
Entries 46
Mean −0.008738
Std Dev 0.2389

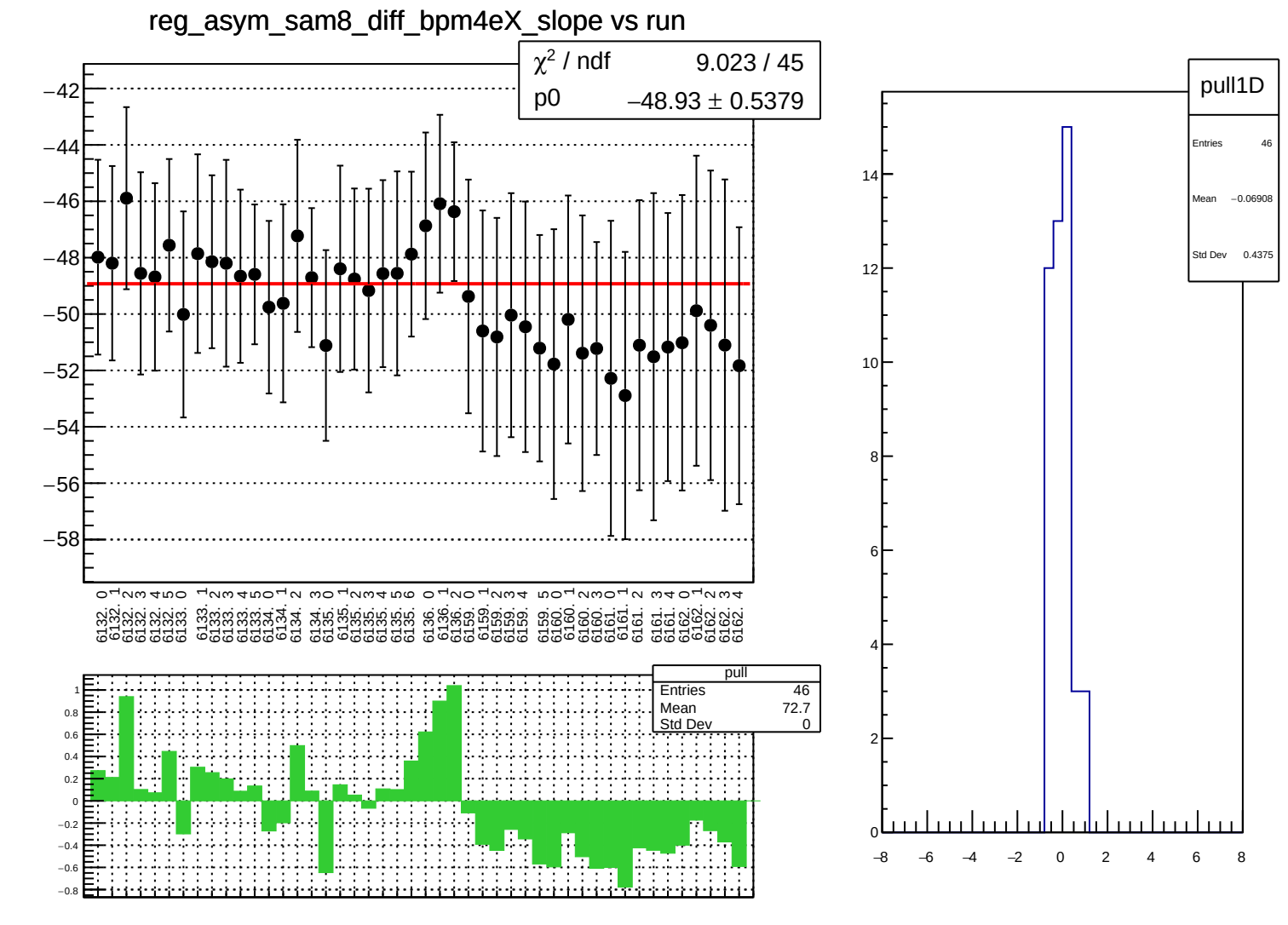

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 6.056 / 45
p0 −0.3633 ± 0.04901
pull
Entries 46
Mean 1023
Std Dev 0
pull1D
Entries 46
Mean −0.001
Std Dev 0.3628

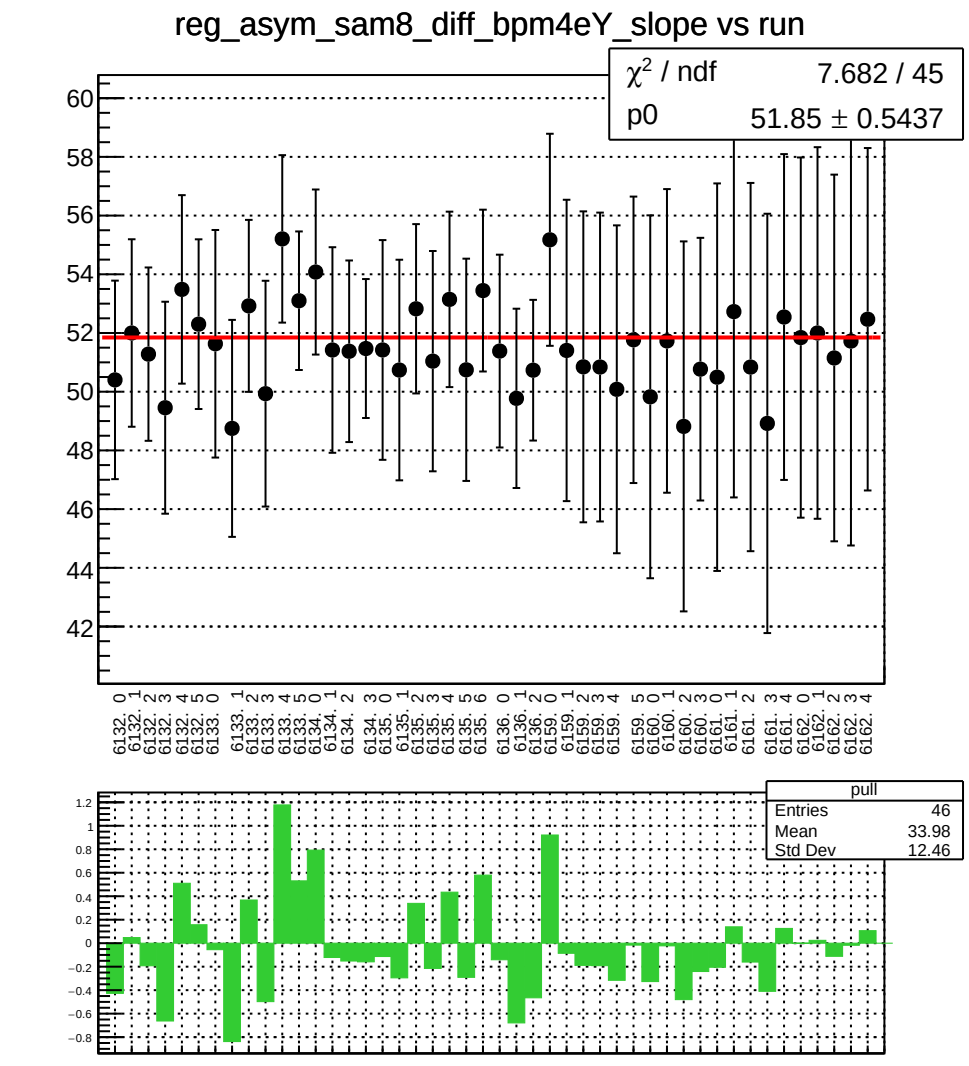

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 9.119 / 45
p0 16.16 ± 0.4396
pull
Entries 46
Mean 73.98
Std Dev 0

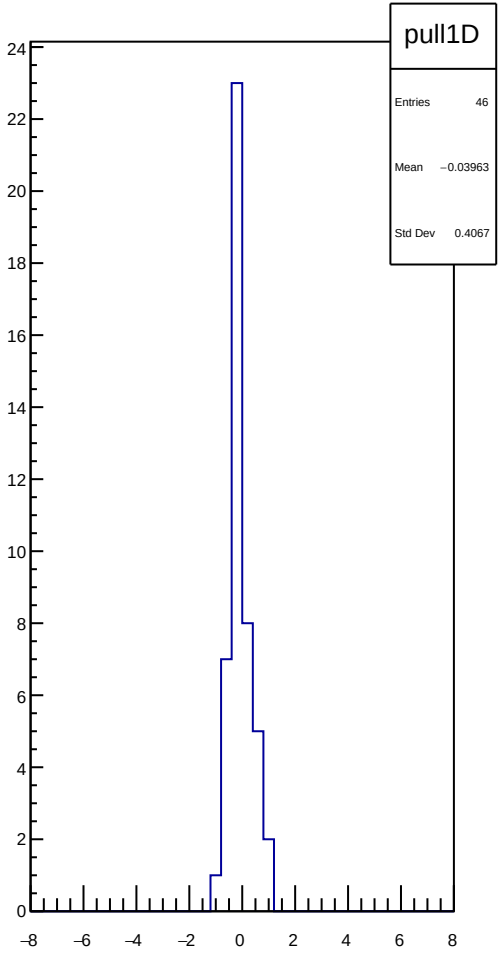

pull1D
Entries 46
Mean 0.06695
Std Dev 0.4402

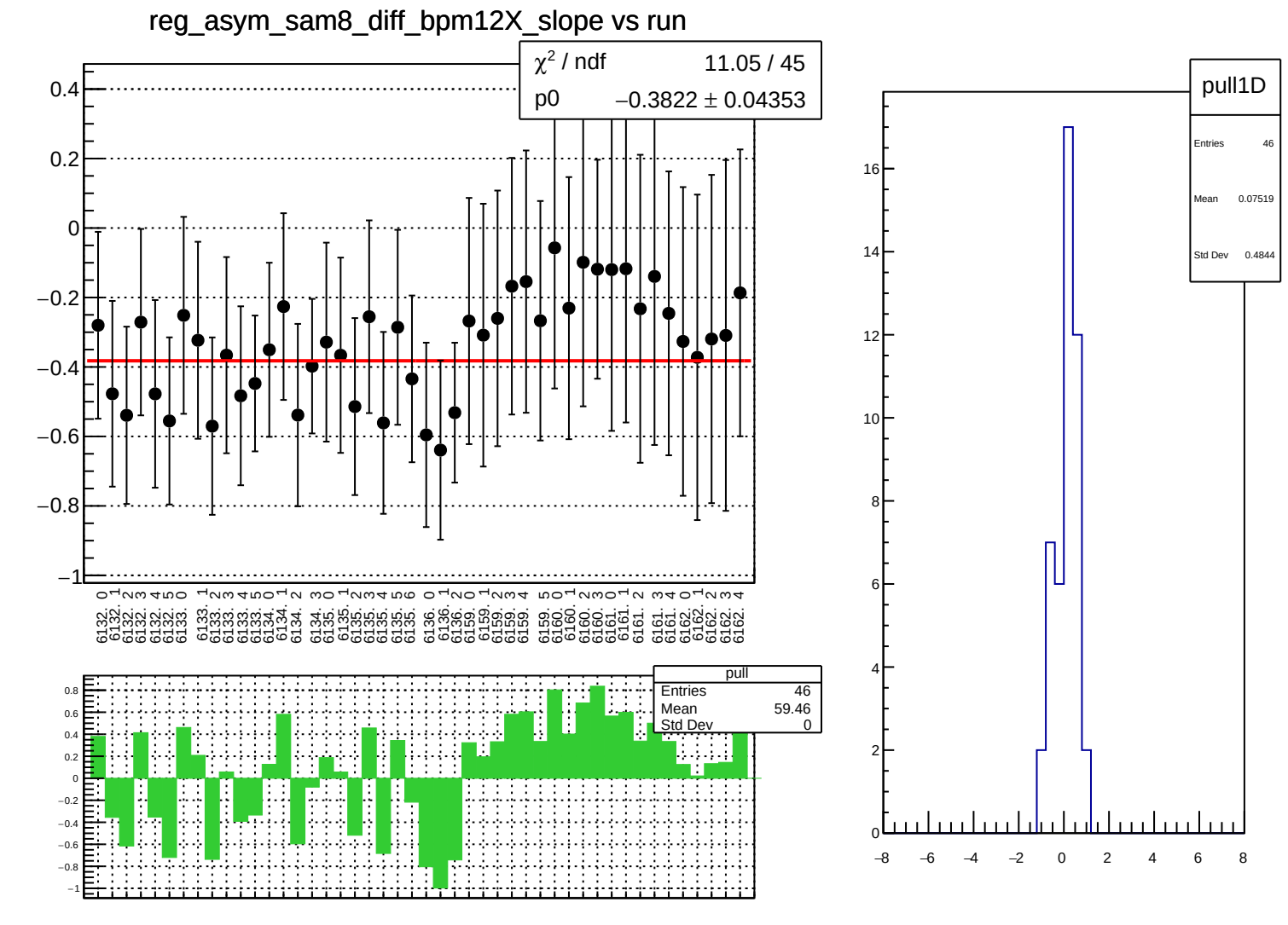

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 11.29 / 45
p0 −39.25 ± 0.5088
pull
Entries 46
Mean −14.35
Std Dev 0

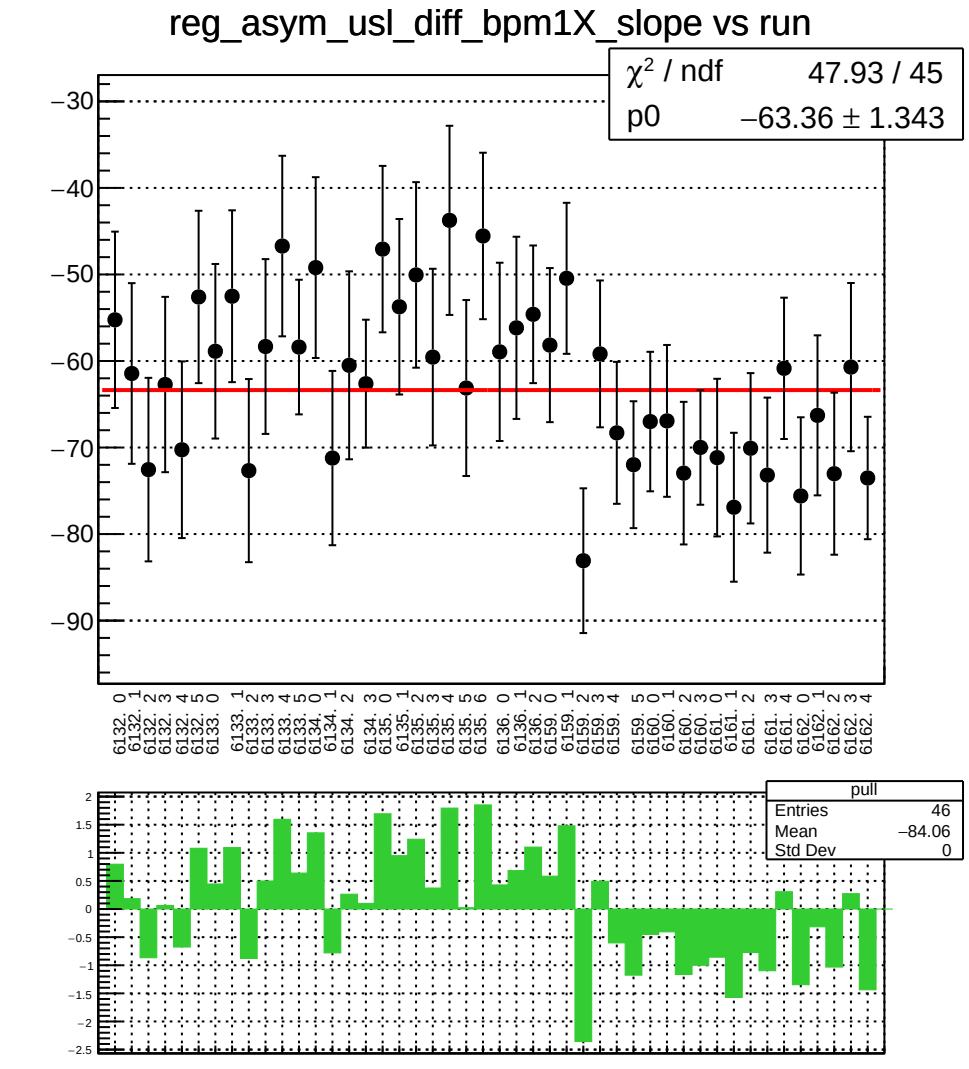

pull1D
Entries 46
Mean 0.02552
Std Dev 0.4947

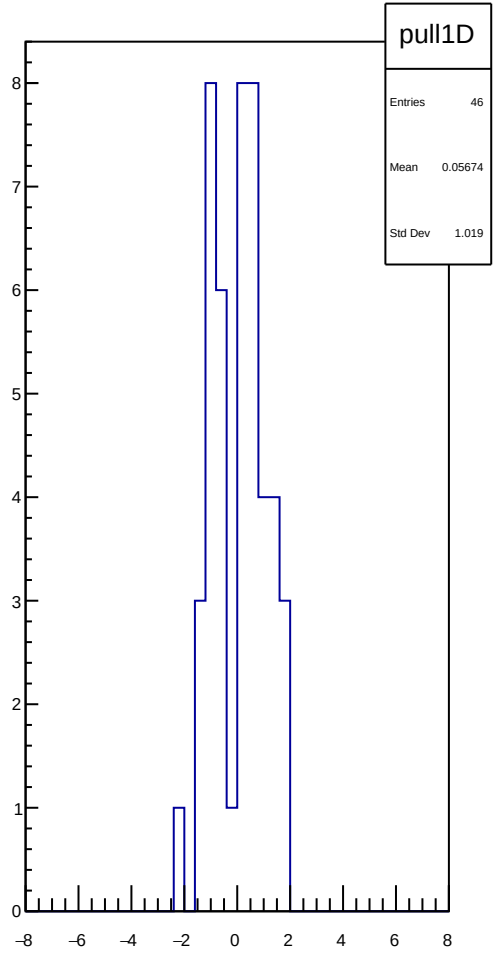

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 9.023 / 45
p0 −48.93 ± 0.5379
pull
Entries 46
Mean 72.7
Std Dev 0
pull1D
Entries 46
Mean −0.06908
Std Dev 0.4375

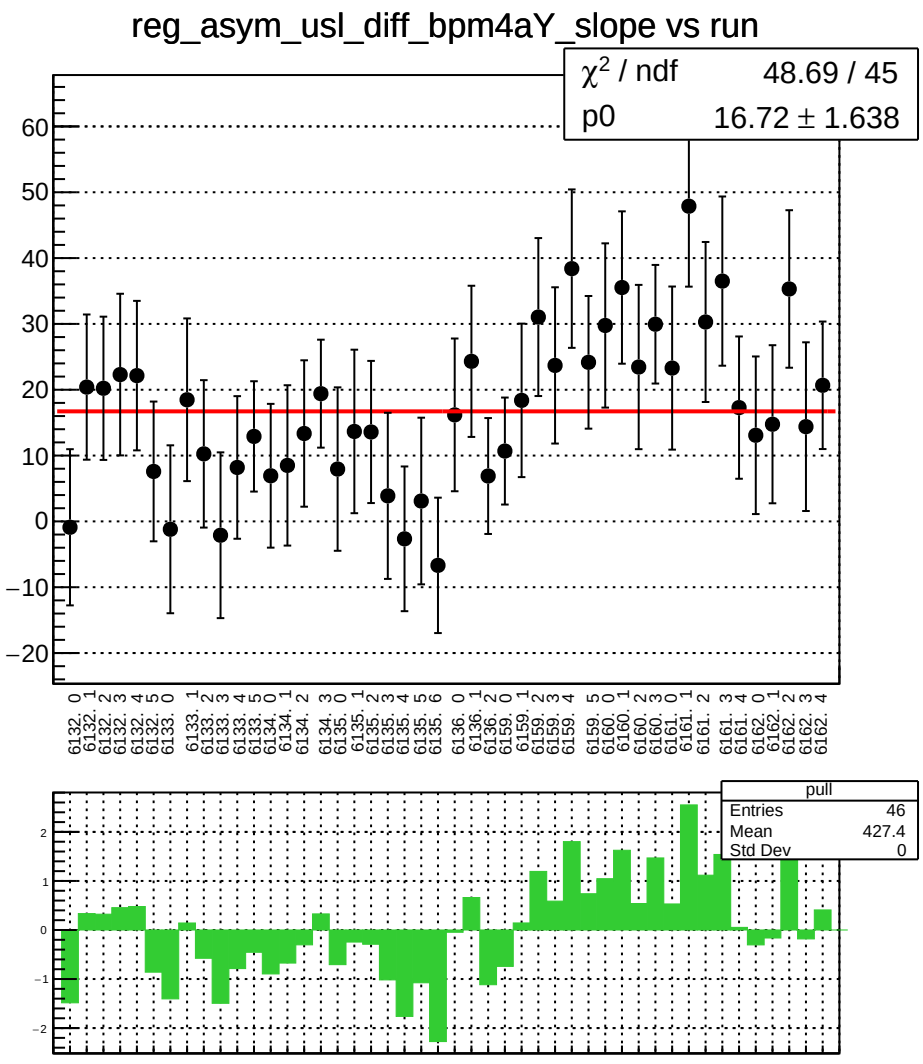

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 7.682 / 45
p0 51.85 ± 0.5437
pull
Entries 46
Mean 33.98
Std Dev 12.46

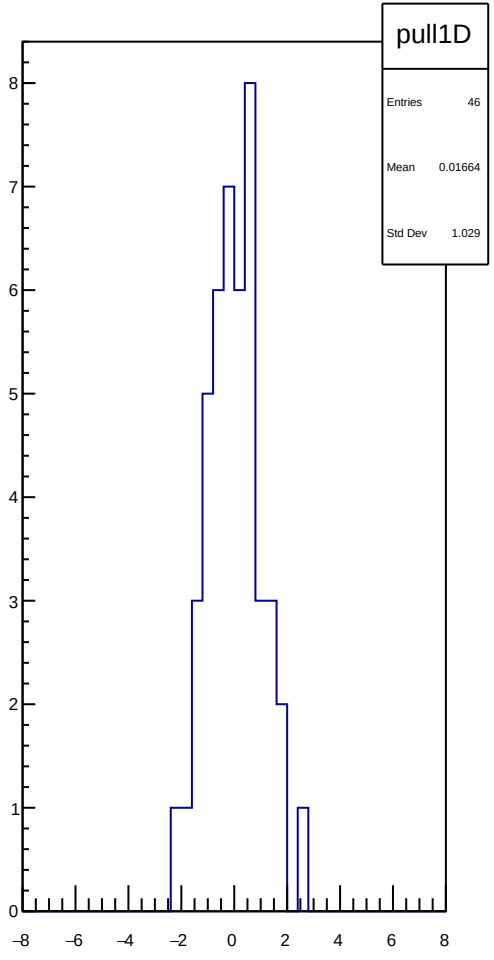

pull1D
Entries 46
Mean −0.03963
Std Dev 0.4067

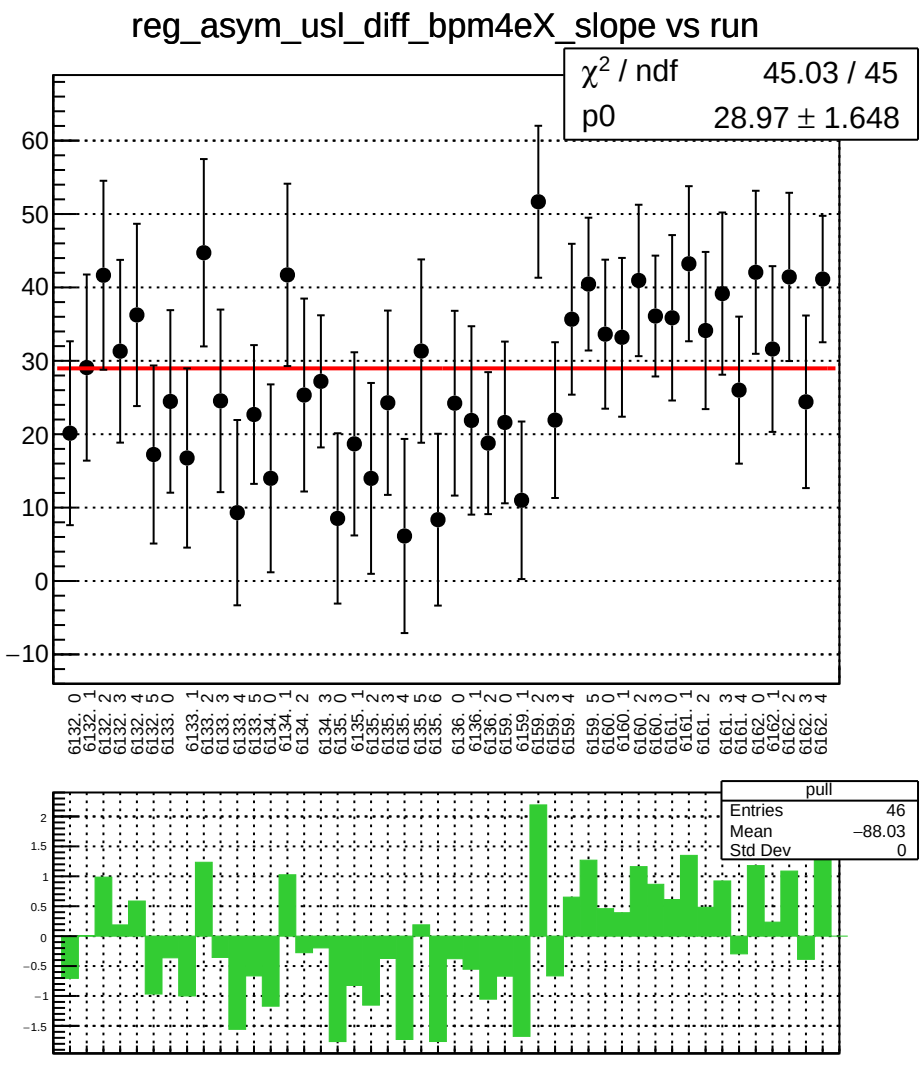

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 11.05 / 45
p0 −0.3822 ± 0.04353
pull
Entries 46
Mean 59.46
Std Dev 0
pull1D
Entries 46
Mean 0.07519
Std Dev 0.4844

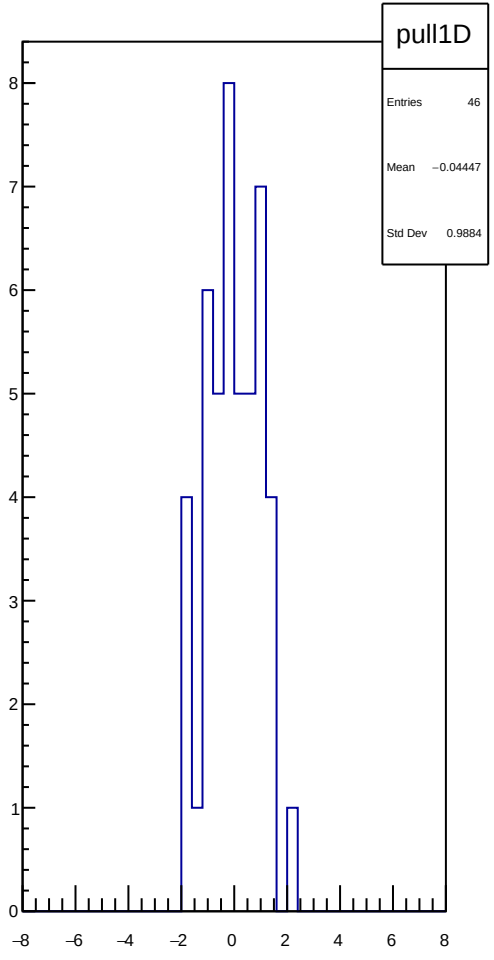

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 47.93 / 45
p0 −63.36 ± 1.343
pull
Entries 46
Mean −84.06
Std Dev 0

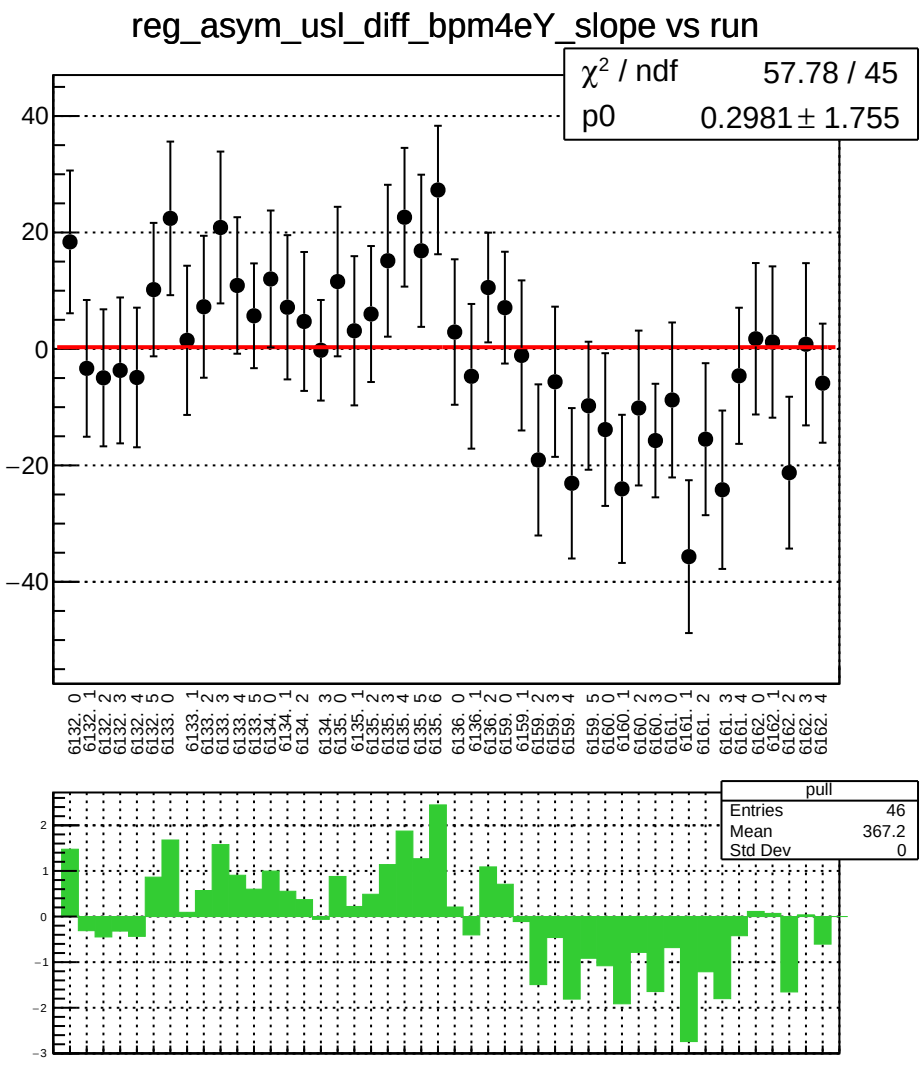

pull1D
Entries 46
Mean 0.05674
Std Dev 1.019

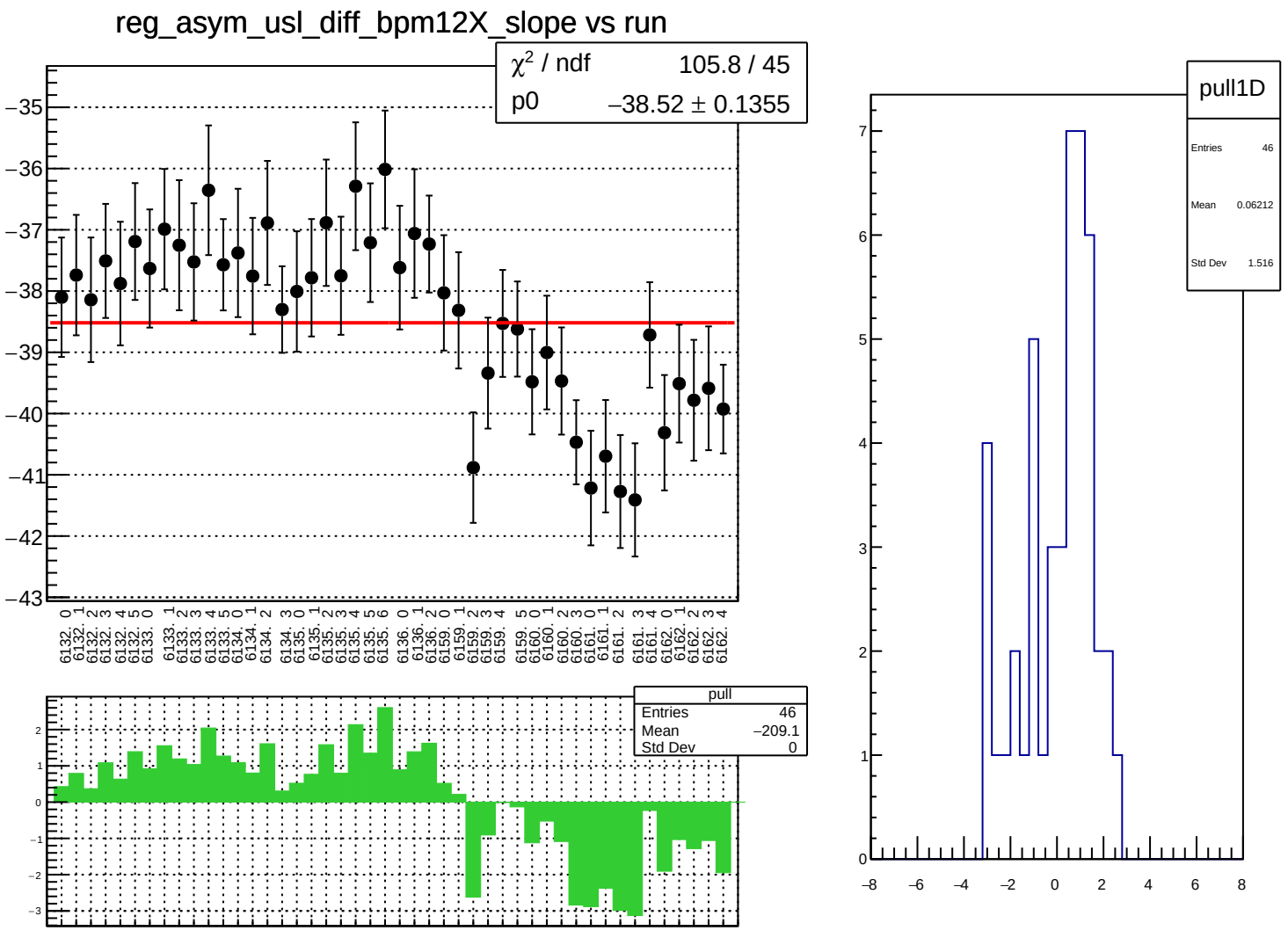

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 48.69 / 45
p0 16.72 ± 1.638
pull
Entries 46
Mean 427.4
Std Dev 0

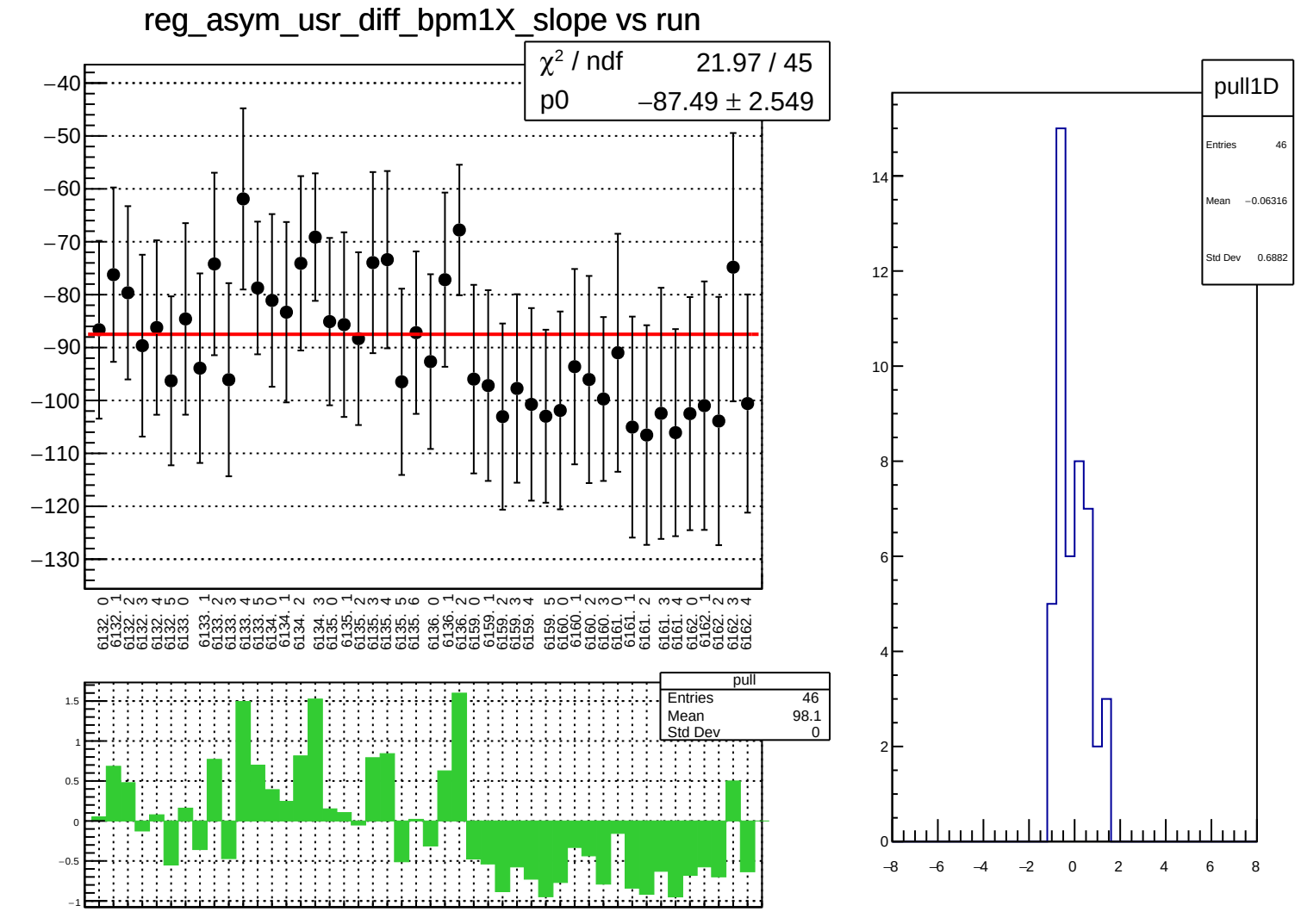

pull1D
Entries 46
Mean 0.01664
Std Dev 1.029

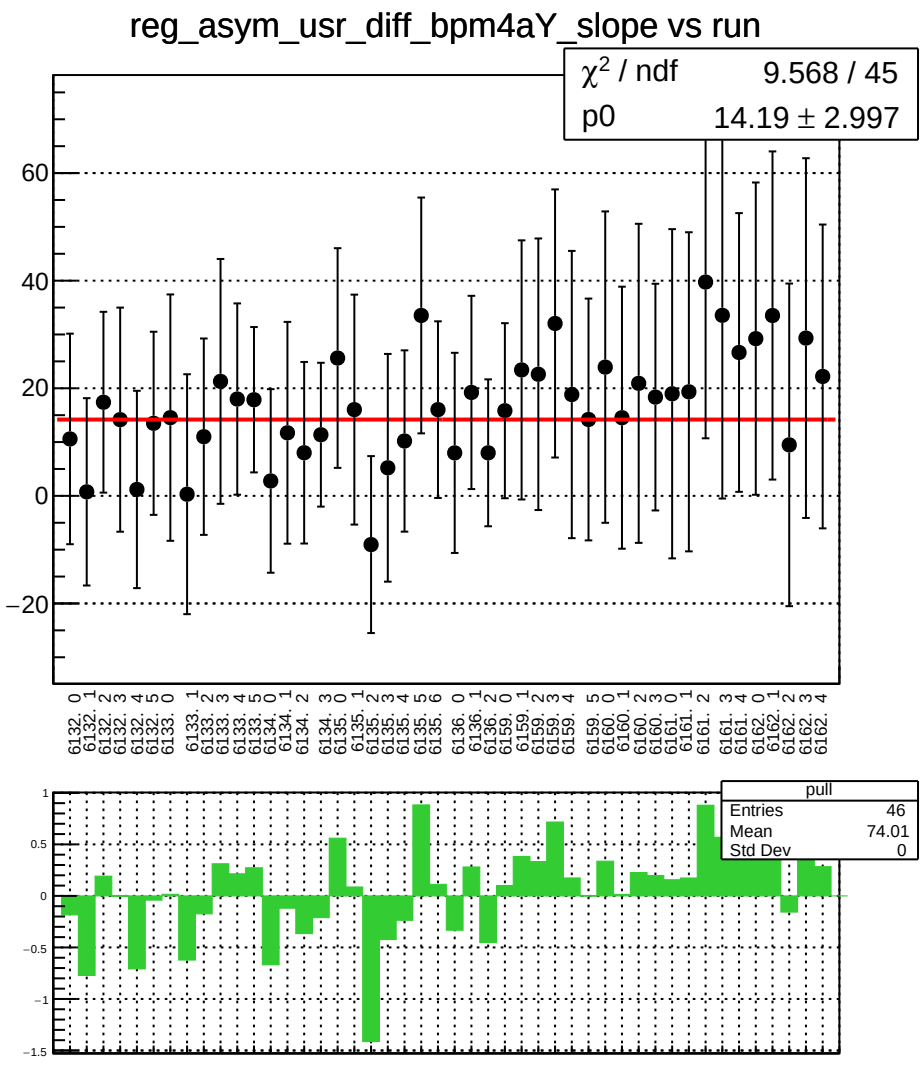

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 45.03 / 45
p0 28.97 ± 1.648
pull
Entries 46
Mean −88.03
Std Dev 0

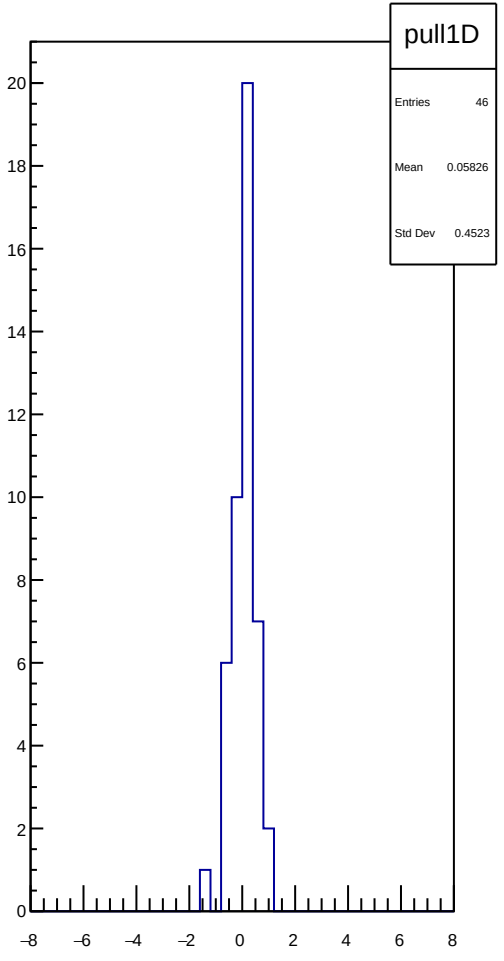

pull1D
Entries 46
Mean −0.04447
Std Dev 0.9884

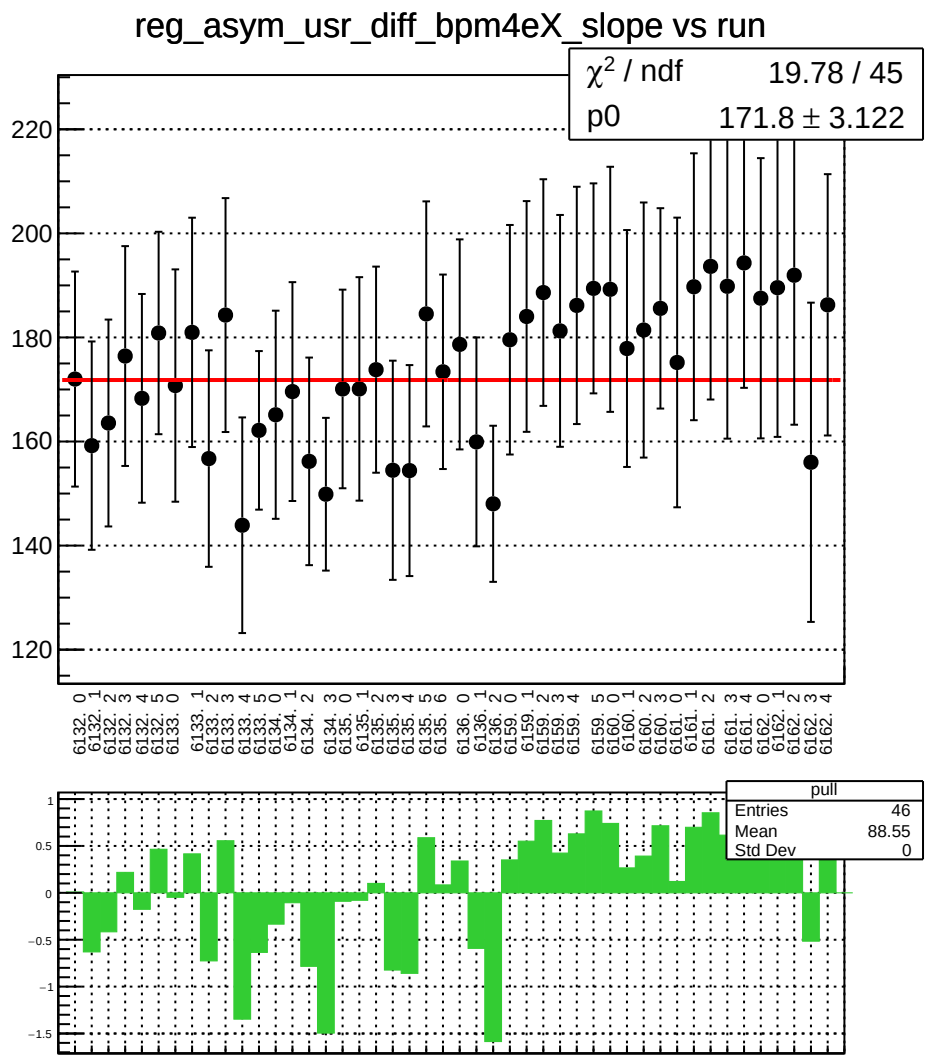

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 57.78 / 45
p0 0.2981 ± 1.755
40
20
0
−20
−40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6136. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 367.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.02342
Std Dev 1.12
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

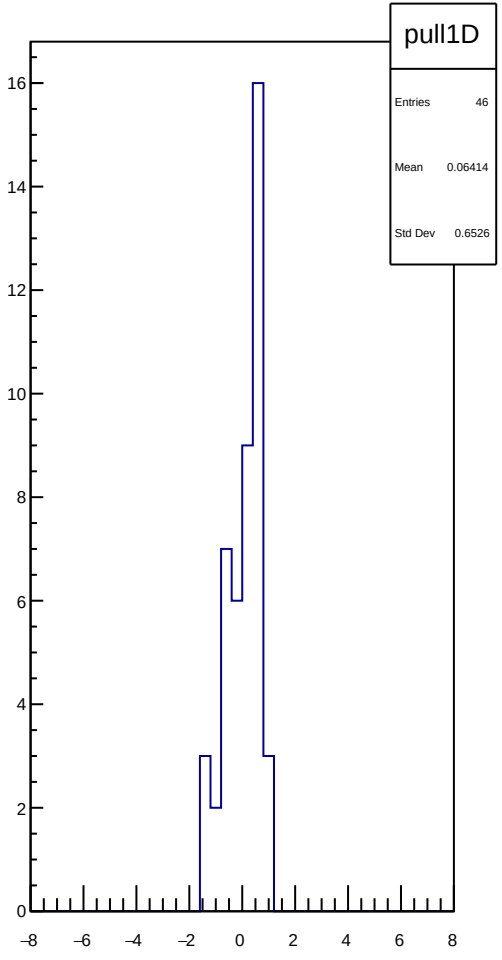

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 105.8 / 45
p0 −38.52 ± 0.1355
pull
Entries 46
Mean −209.1
Std Dev 0
pull1D
Entries 46
Mean 0.06212
Std Dev 1.516

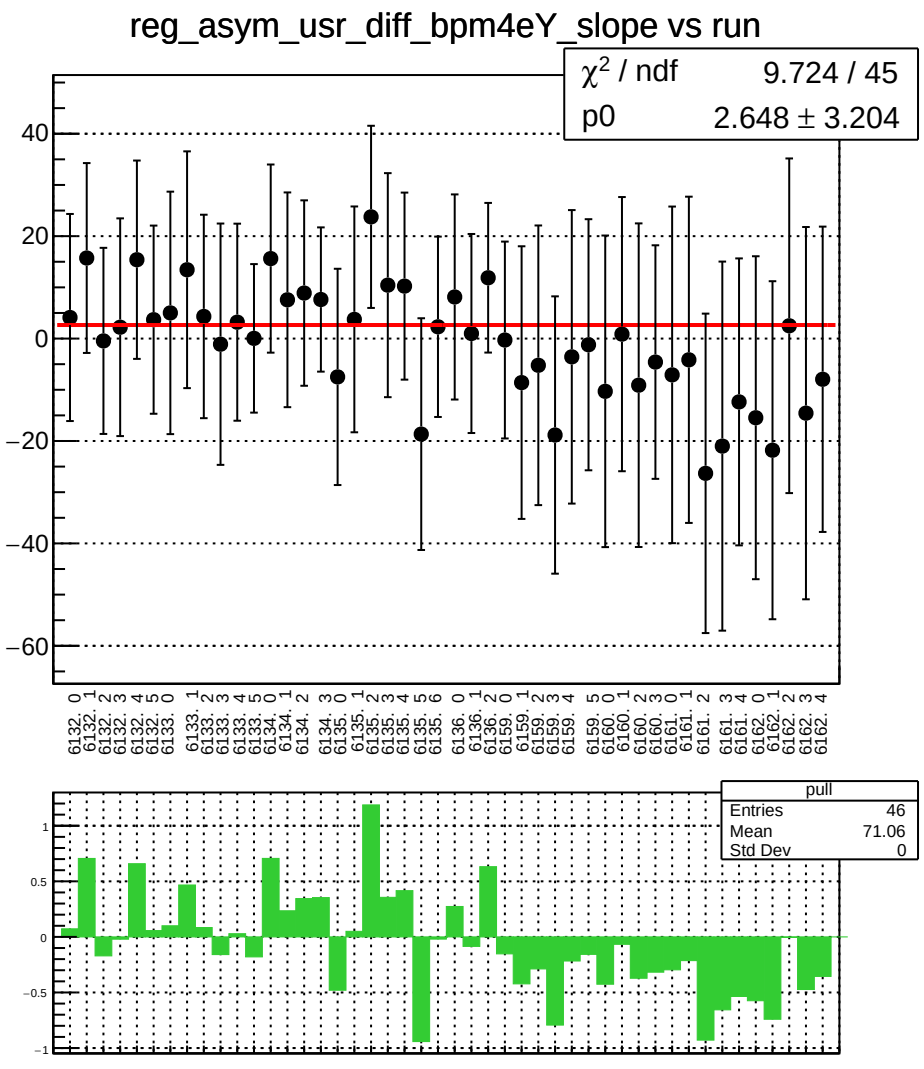

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 21.97 / 45
p0 −87.49 ± 2.549
pull
Entries 46
Mean 98.1
Std Dev 0
pull1D
Entries 46
Mean −0.06316
Std Dev 0.6882

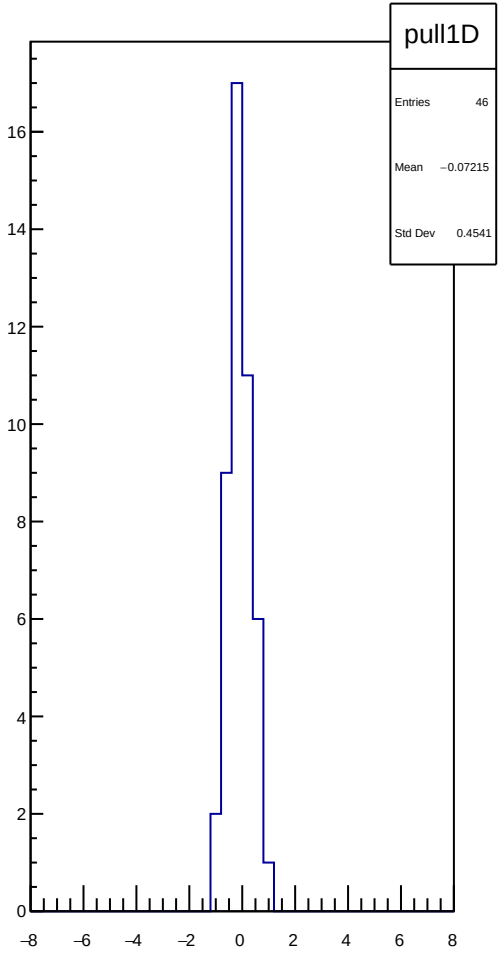

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 9.568 / 45
p0 14.19 ± 2.997
pull
Entries 46
Mean 74.01
Std Dev 0

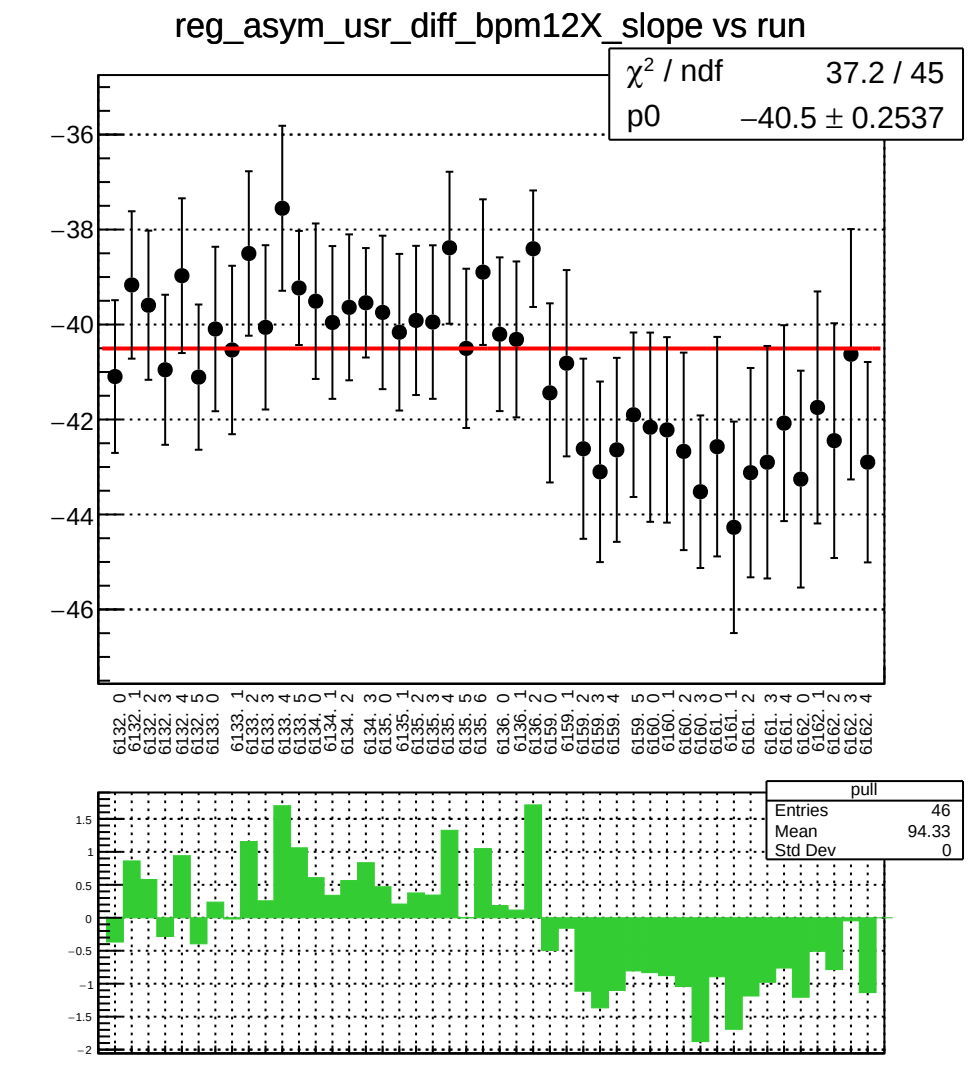

pull1D
Entries 46
Mean 0.05826
Std Dev 0.4523

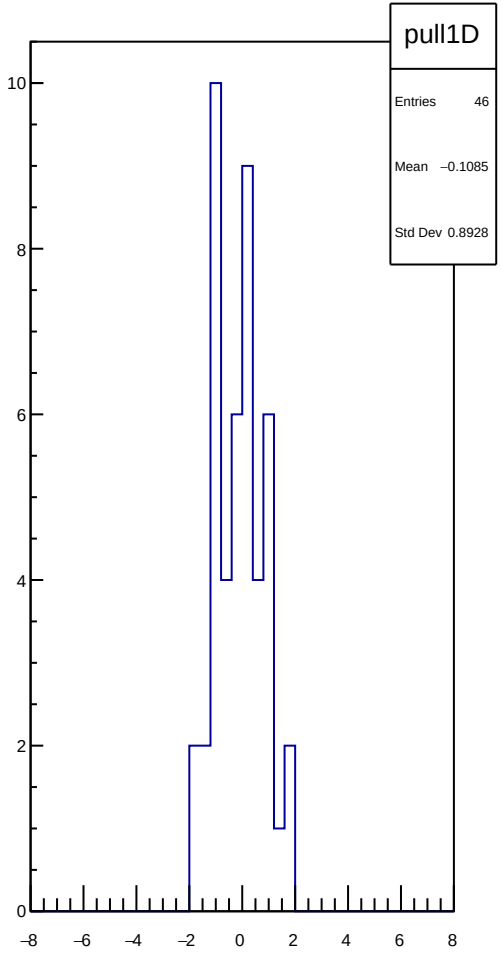

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 19.78 / 45
p0 171.8 ± 3.122
220
200
180
160
140
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 88.55
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

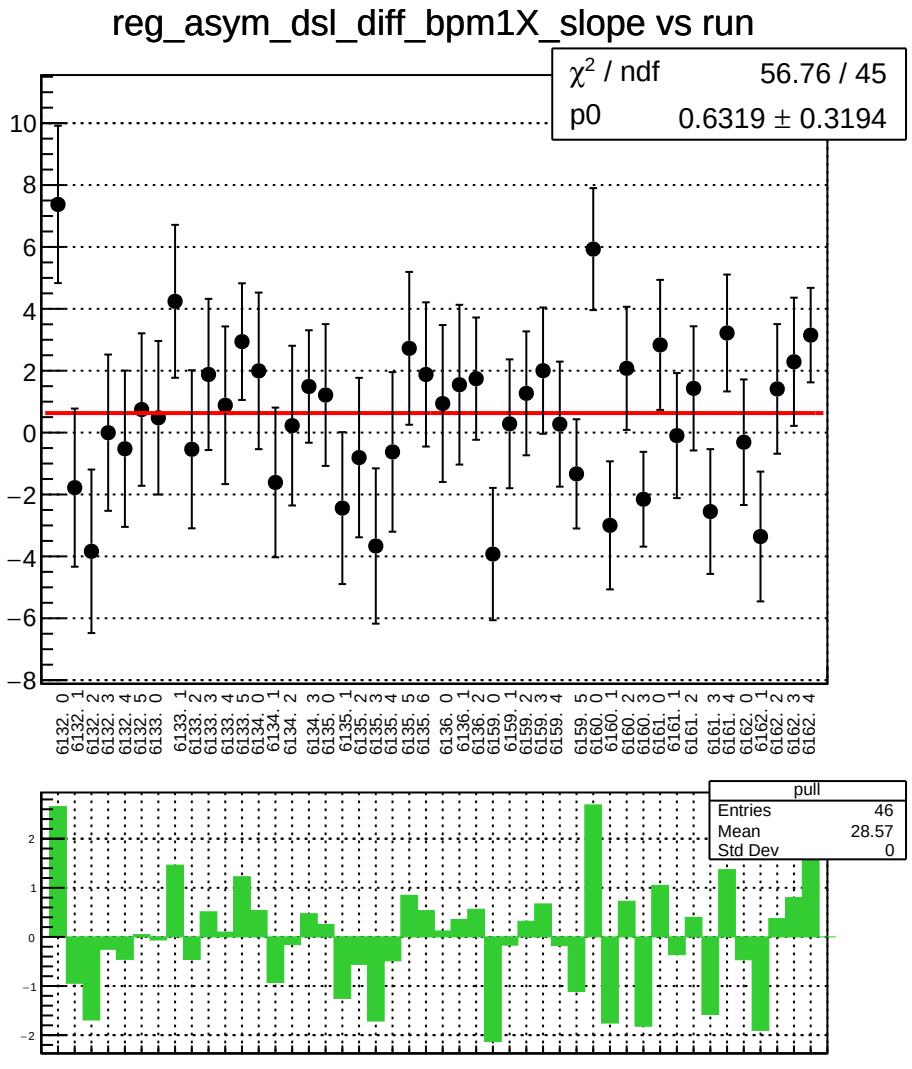

pull1D
Entries 46
Mean 0.06414
Std Dev 0.6526
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

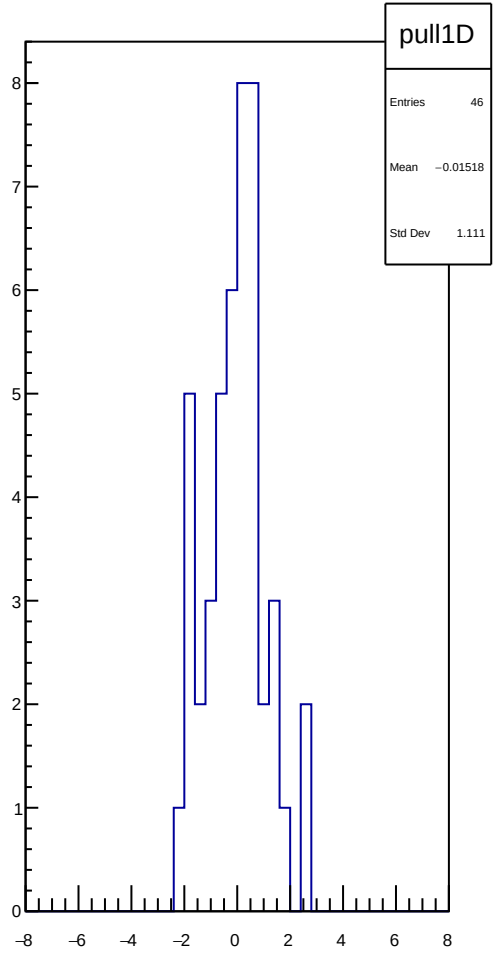

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 9.724 / 45
p0 2.648 ± 3.204
pull
Entries 46
Mean 71.06
Std Dev 0

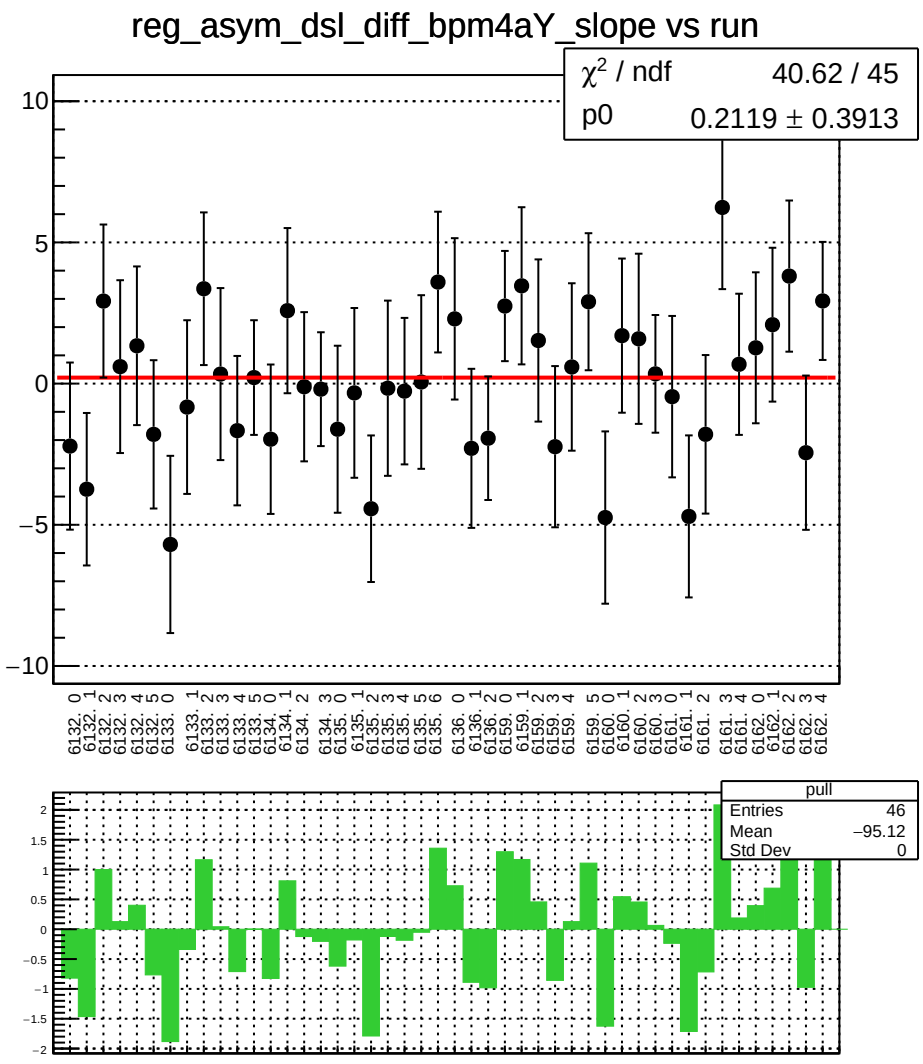

pull1D
Entries 46
Mean −0.07215
Std Dev 0.4541

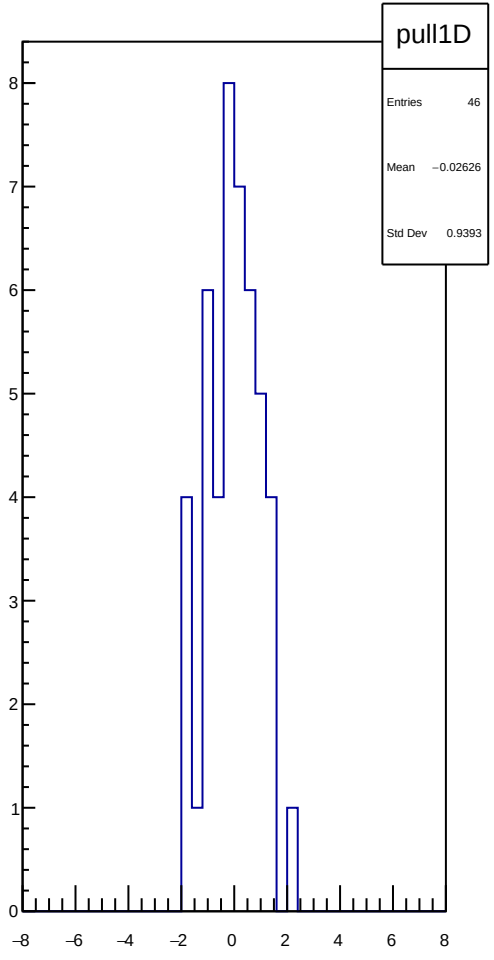

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 37.2 / 45
p0 −40.5 ± 0.2537
pull
Entries 46
Mean 94.33
Std Dev 0

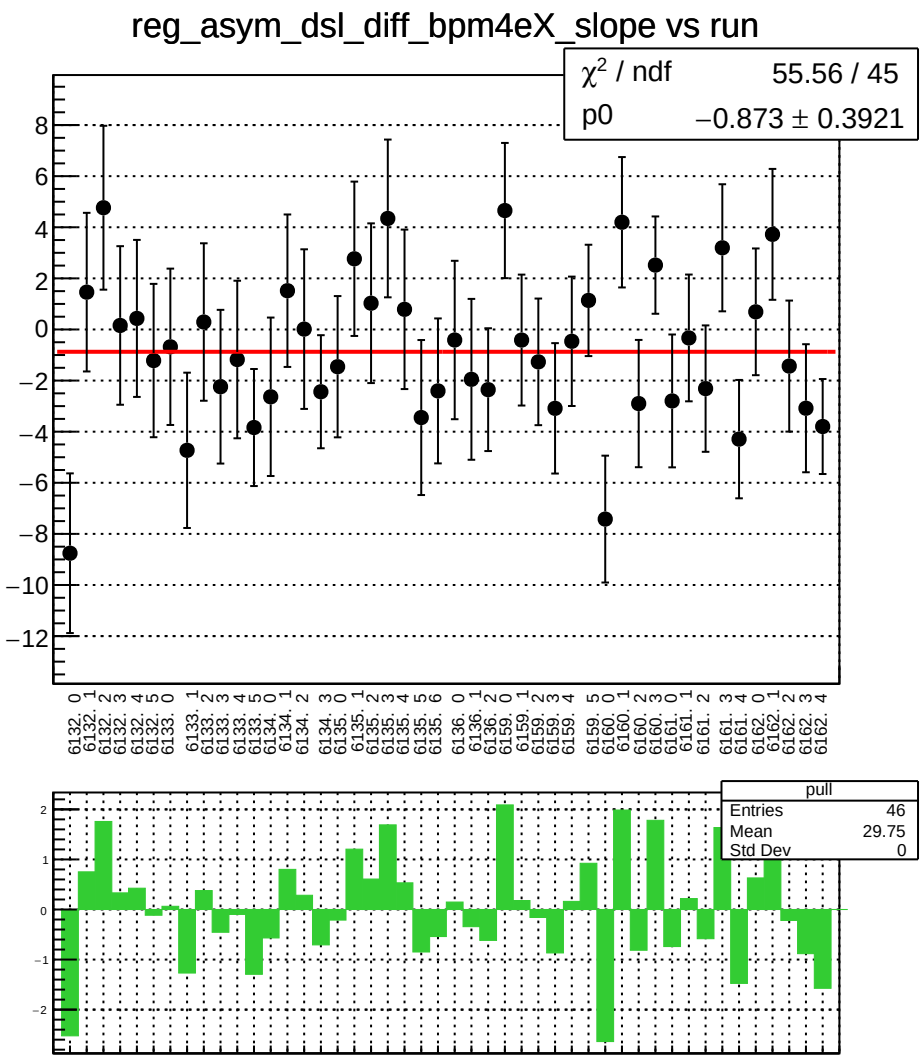

pull1D
Entries 46
Mean −0.1085
Std Dev 0.8928

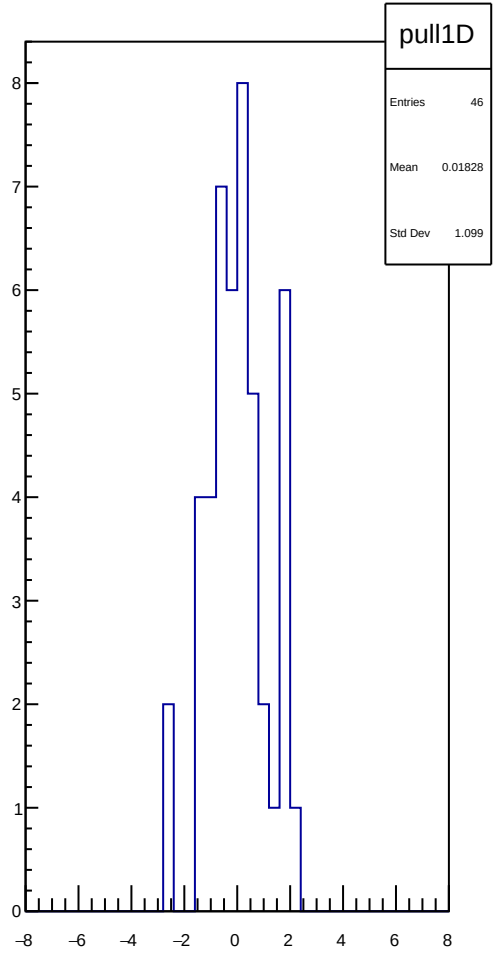

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 56.76 / 45
p0 0.6319 ± 0.3194
pull
Entries 46
Mean 28.57
Std Dev 0

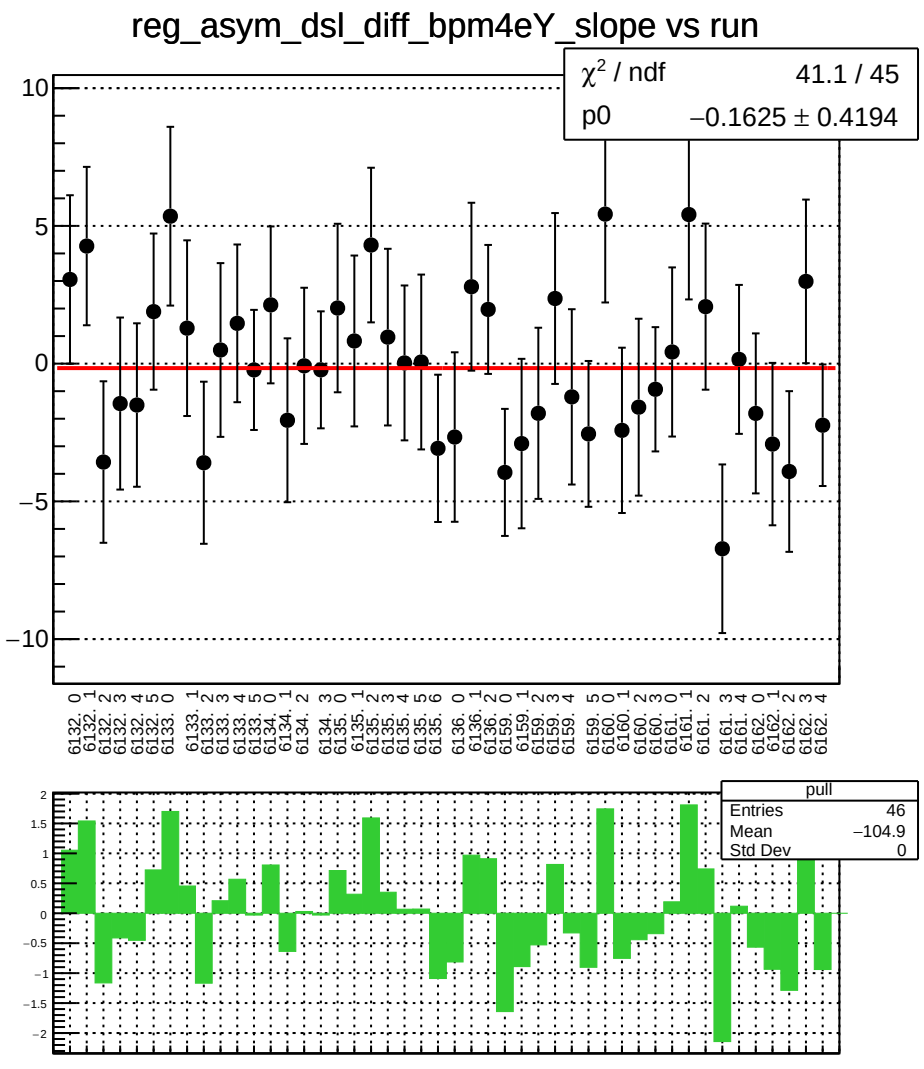

pull1D
Entries 46
Mean −0.01518
Std Dev 1.111

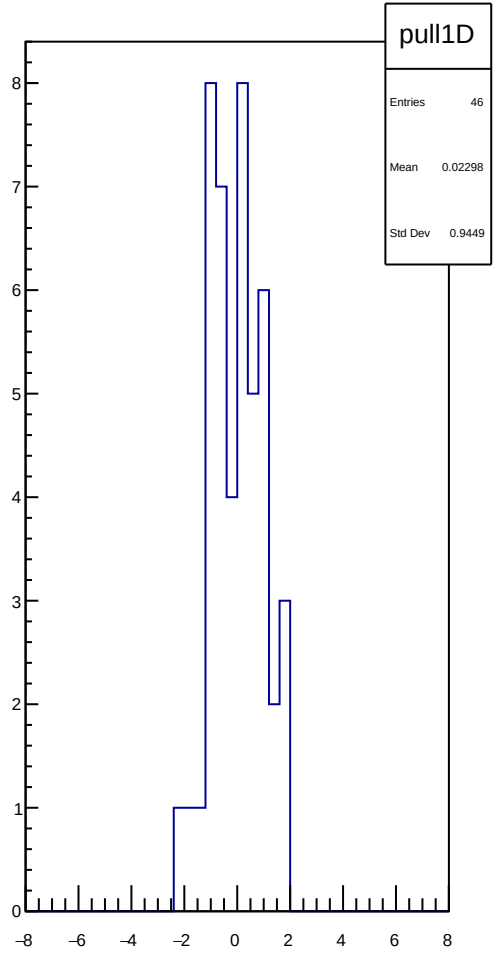

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 40.62 / 45
p0 0.2119 ± 0.3913
pull
Entries 46
Mean −95.12
Std Dev 0

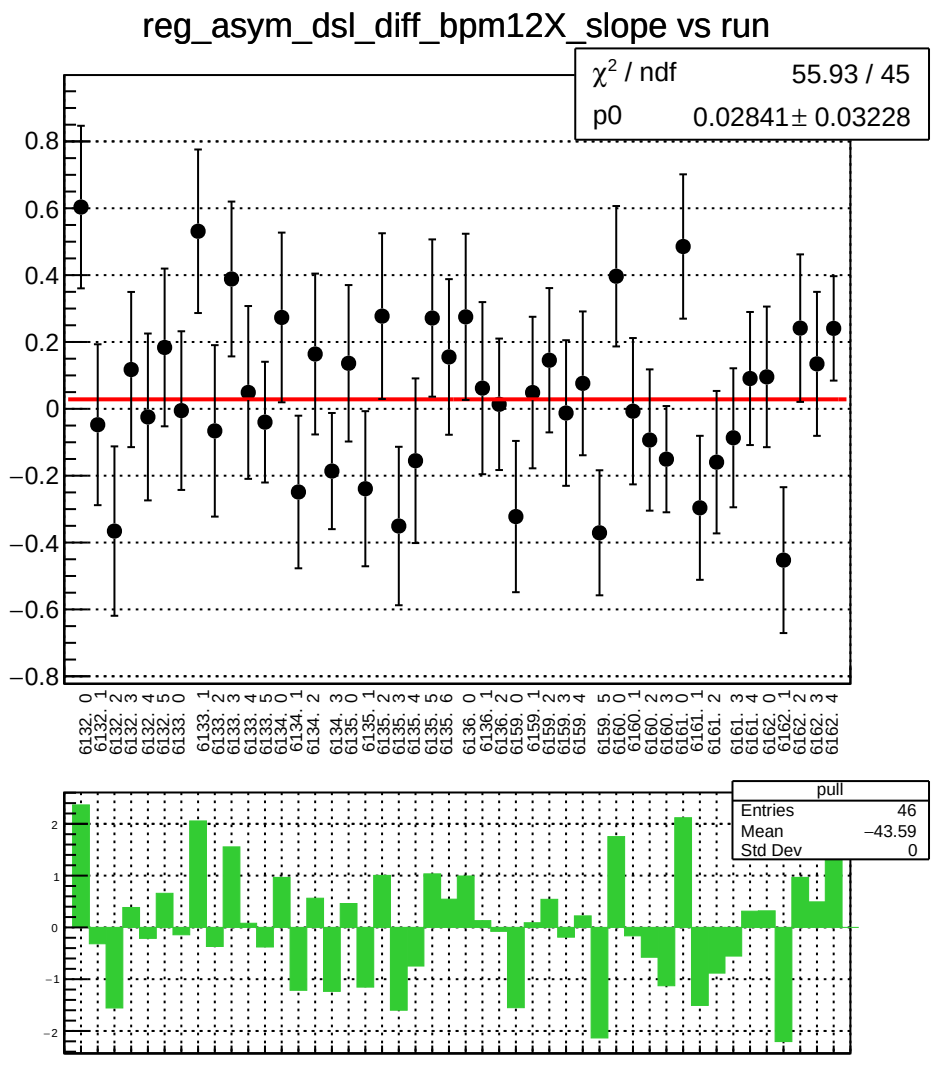

pull1D
Entries 46
Mean −0.02626
Std Dev 0.9393

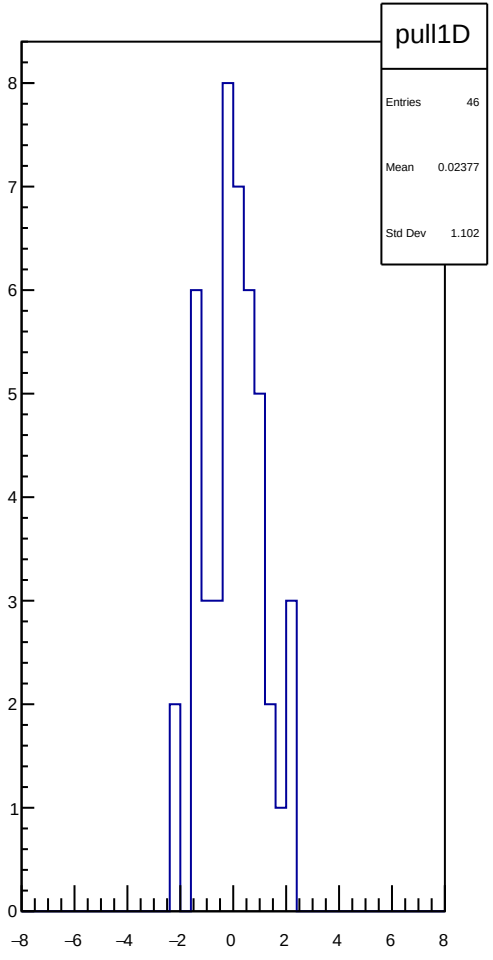

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 55.56 / 45
p0 −0.873 ± 0.3921
pull
Entries 46
Mean 29.75
Std Dev 0

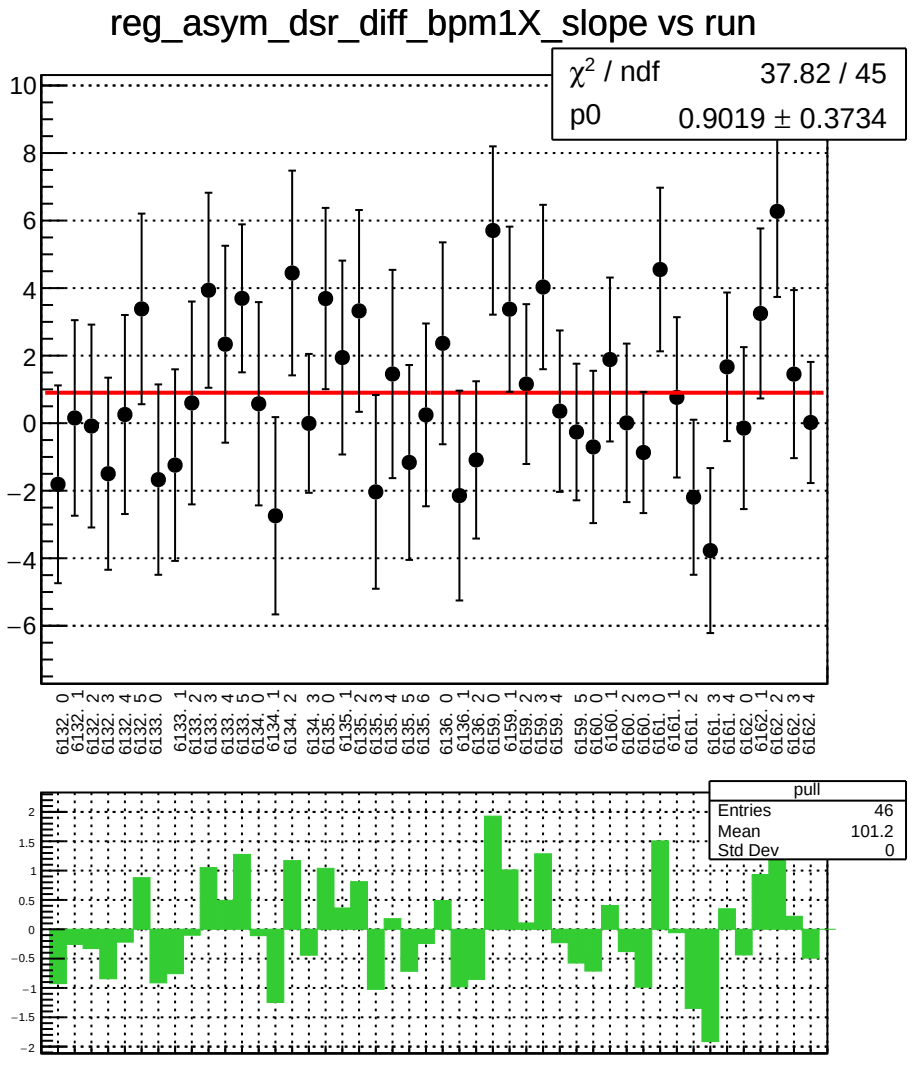

pull1D
Entries 46
Mean 0.01828
Std Dev 1.099

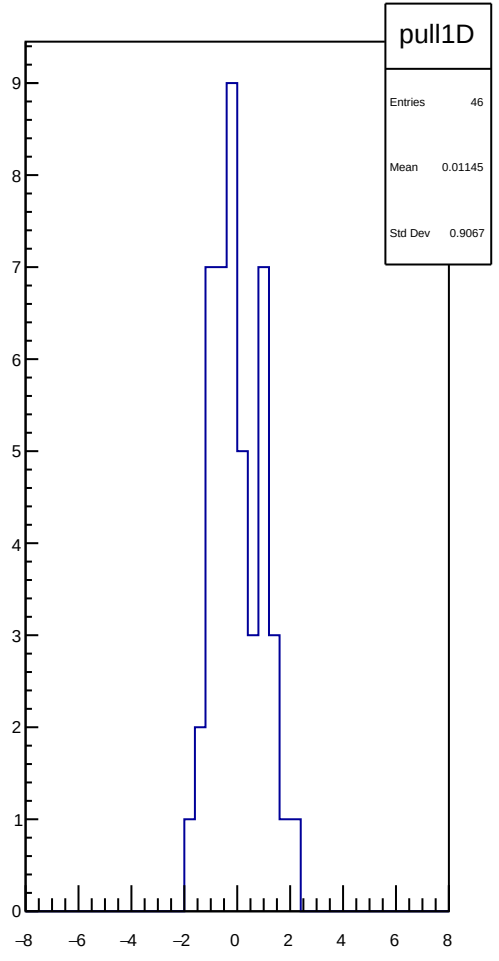

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 41.1 / 45
p0 −0.1625 ± 0.4194
pull
Entries 46
Mean −104.9
Std Dev 0

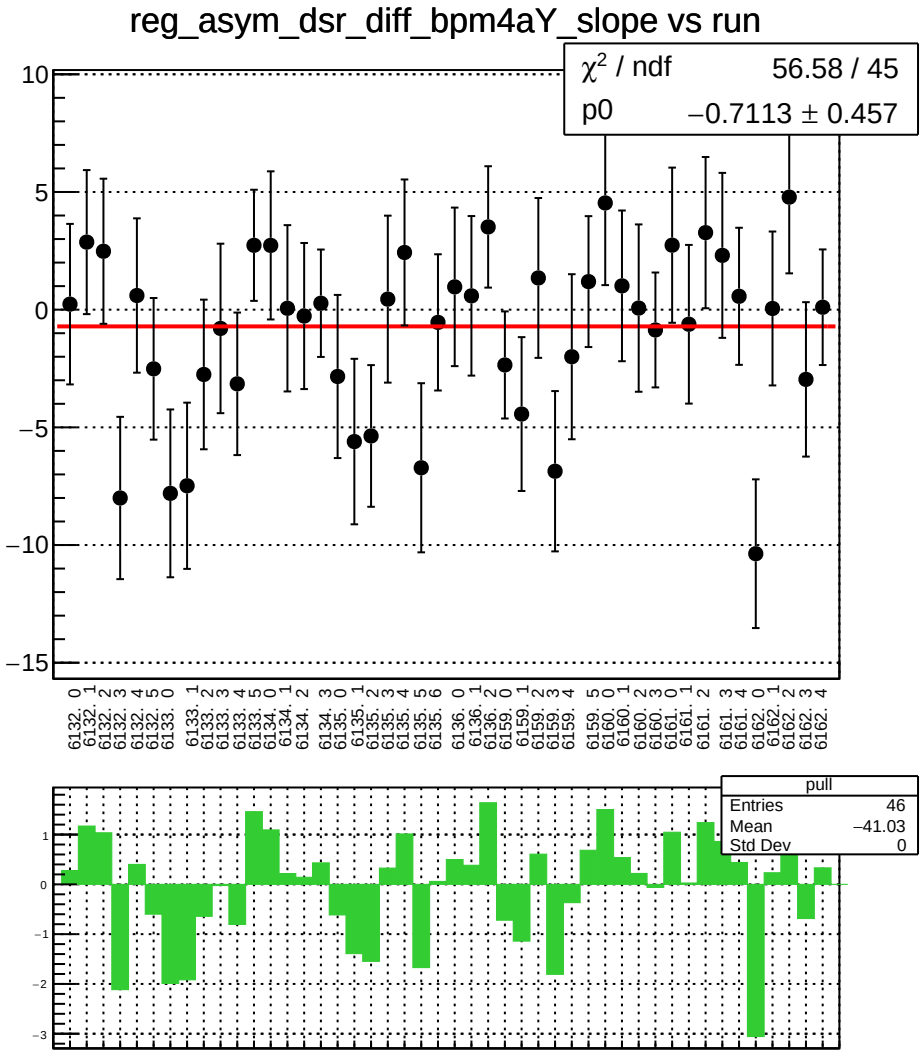

pull1D
Entries 46
Mean 0.02298
Std Dev 0.9449

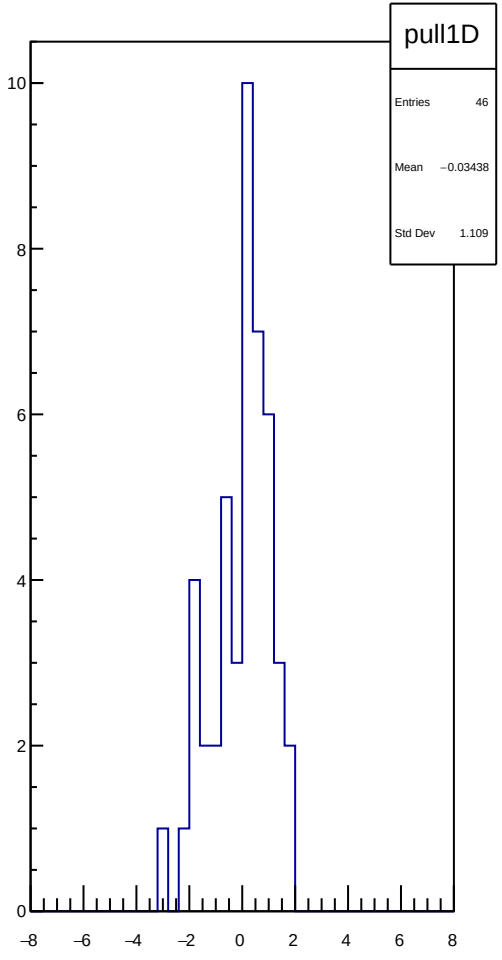

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 55.93 / 45
p0 0.02841 ± 0.03228
pull
Entries 46
Mean −43.59
Std Dev 0

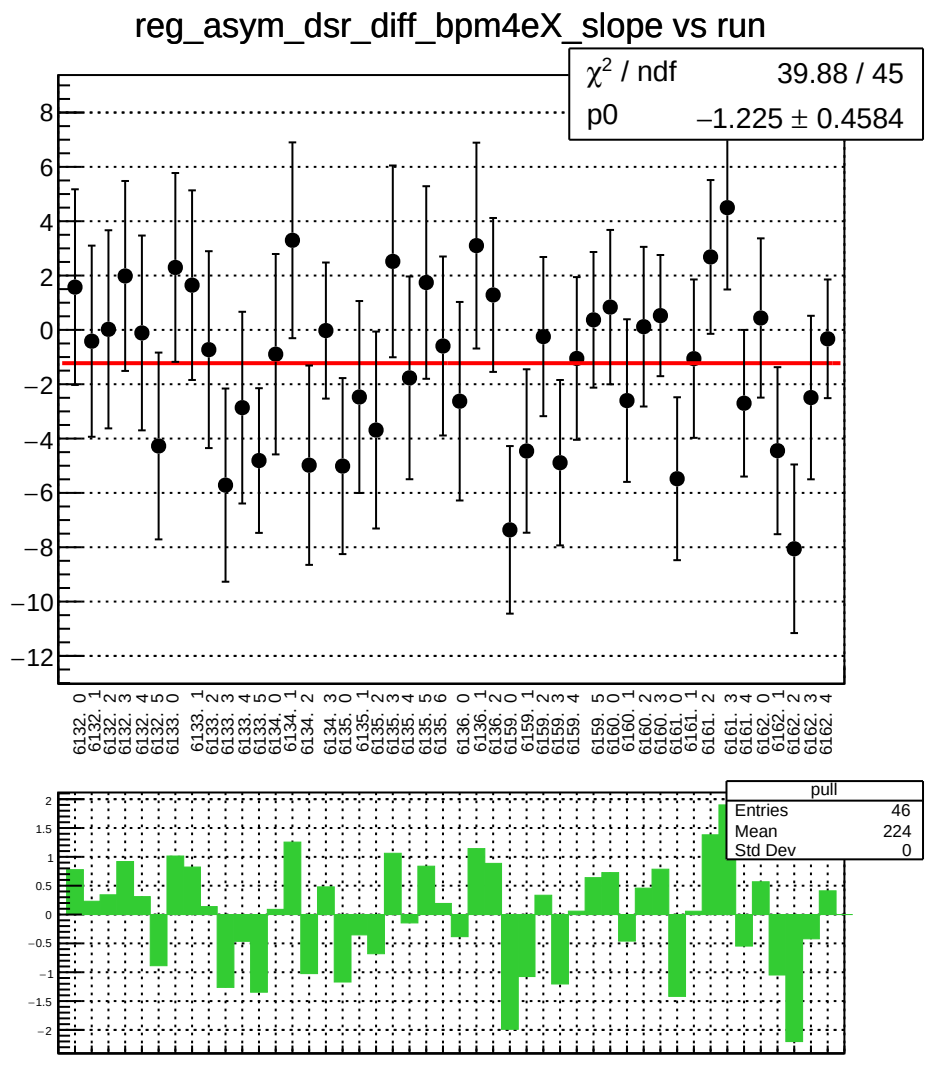

pull1D
Entries 46
Mean 0.02377
Std Dev 1.102

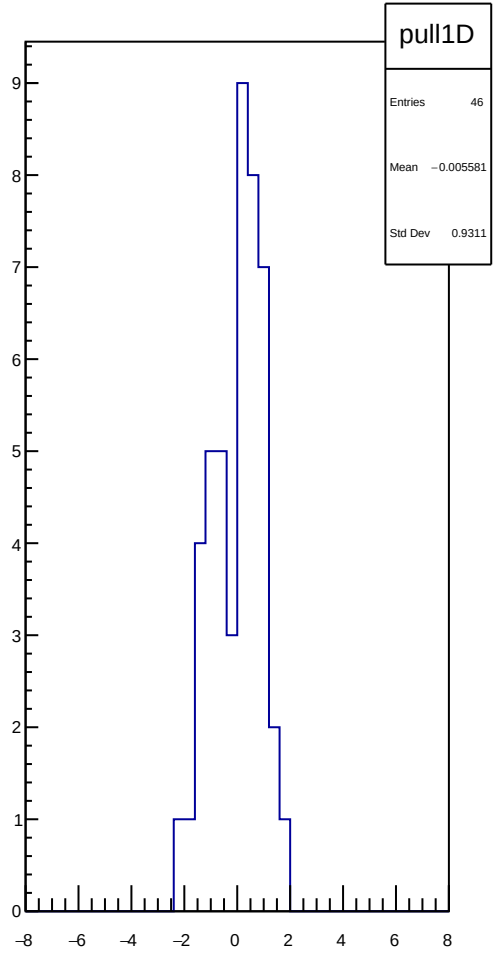

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 37.82 / 45
p0 0.9019 ± 0.3734
pull
Entries 46
Mean 101.2
Std Dev 0

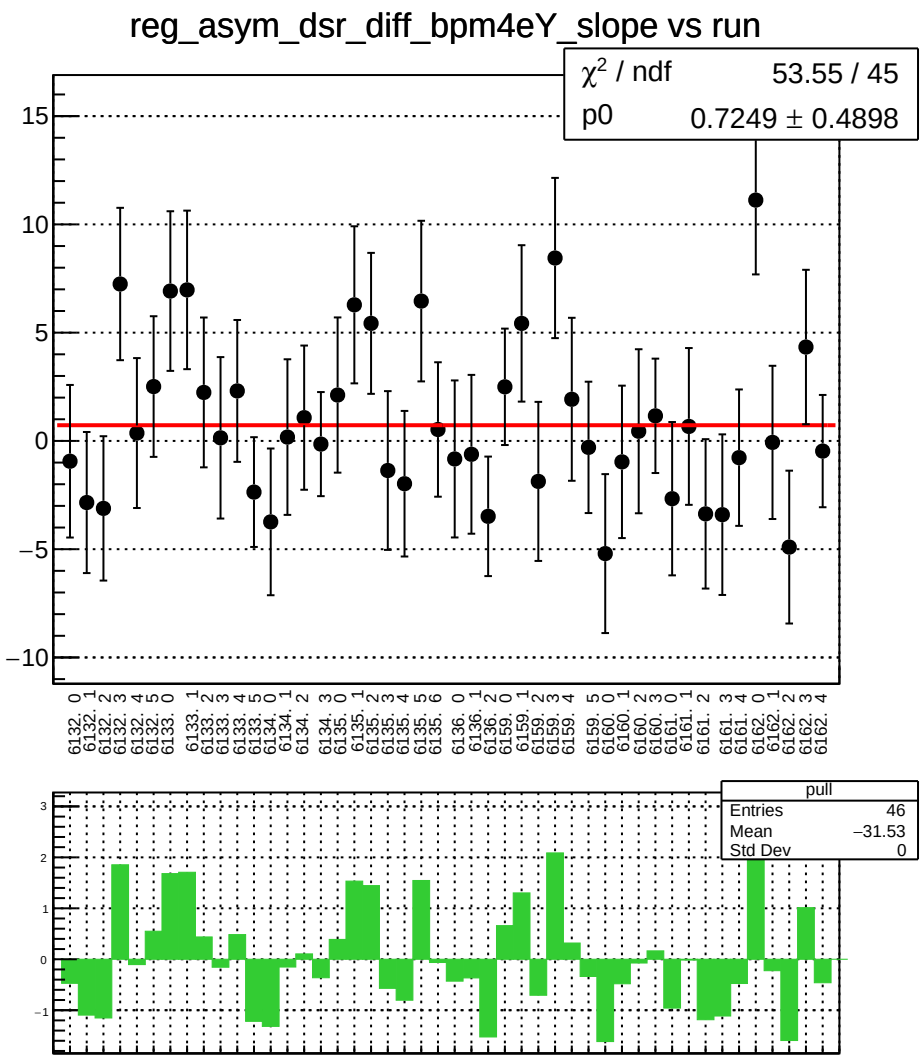

pull1D
Entries 46
Mean 0.01145
Std Dev 0.9067

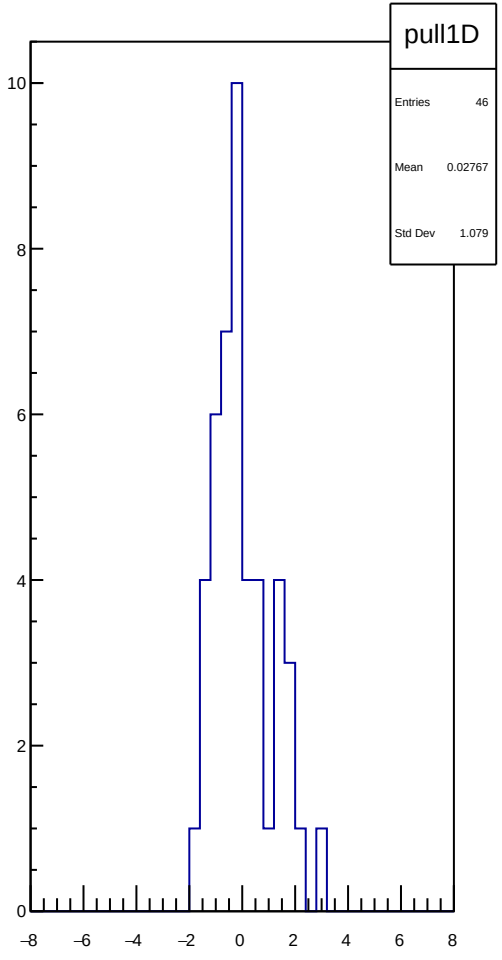

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 56.58 / 45
p0 −0.7113 ± 0.457
pull
Entries 46
Mean −41.03
Std Dev 0

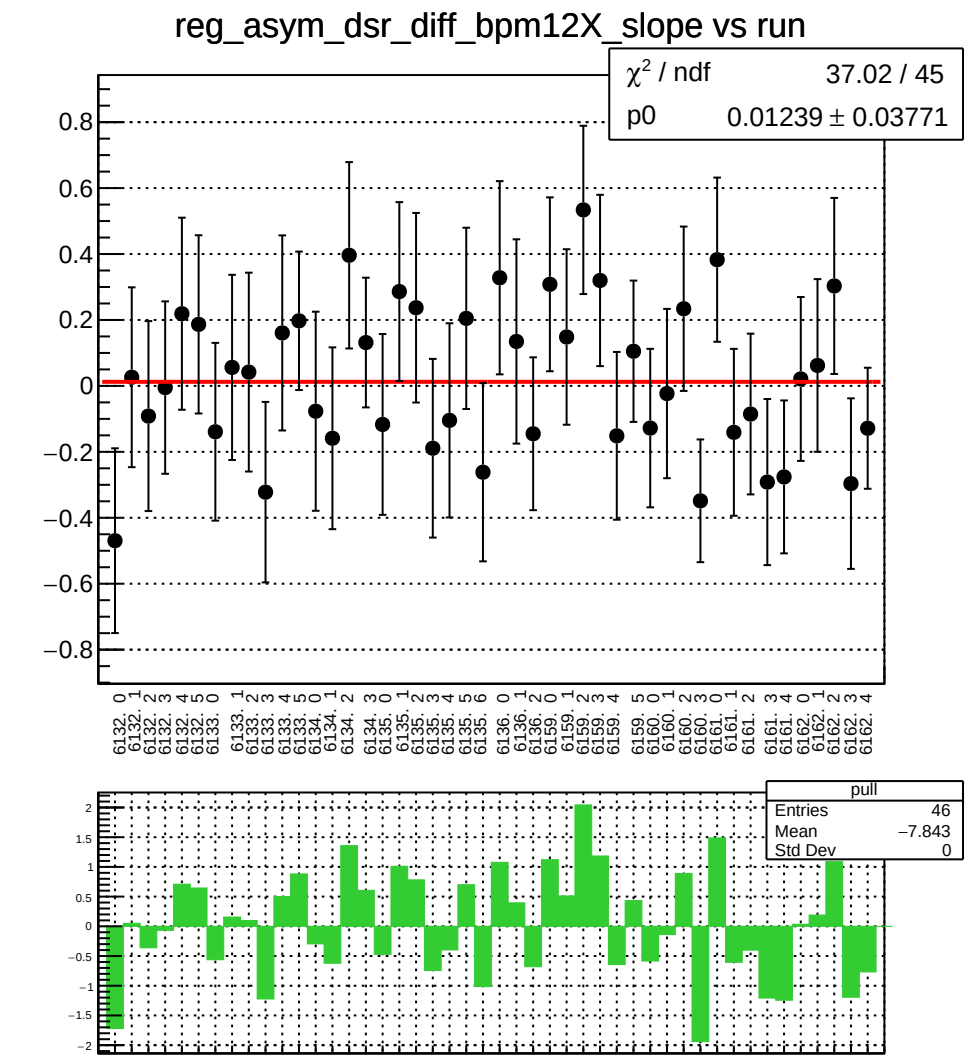

pull1D
Entries 46
Mean −0.03438
Std Dev 1.109

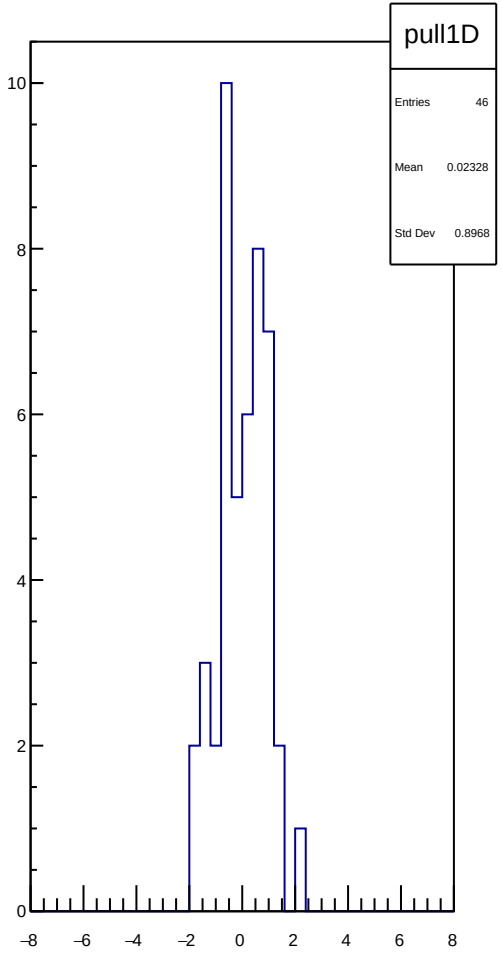

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 39.88 / 45
p0 −1.225 ± 0.4584
pull
Entries 46
Mean 224
Std Dev 0

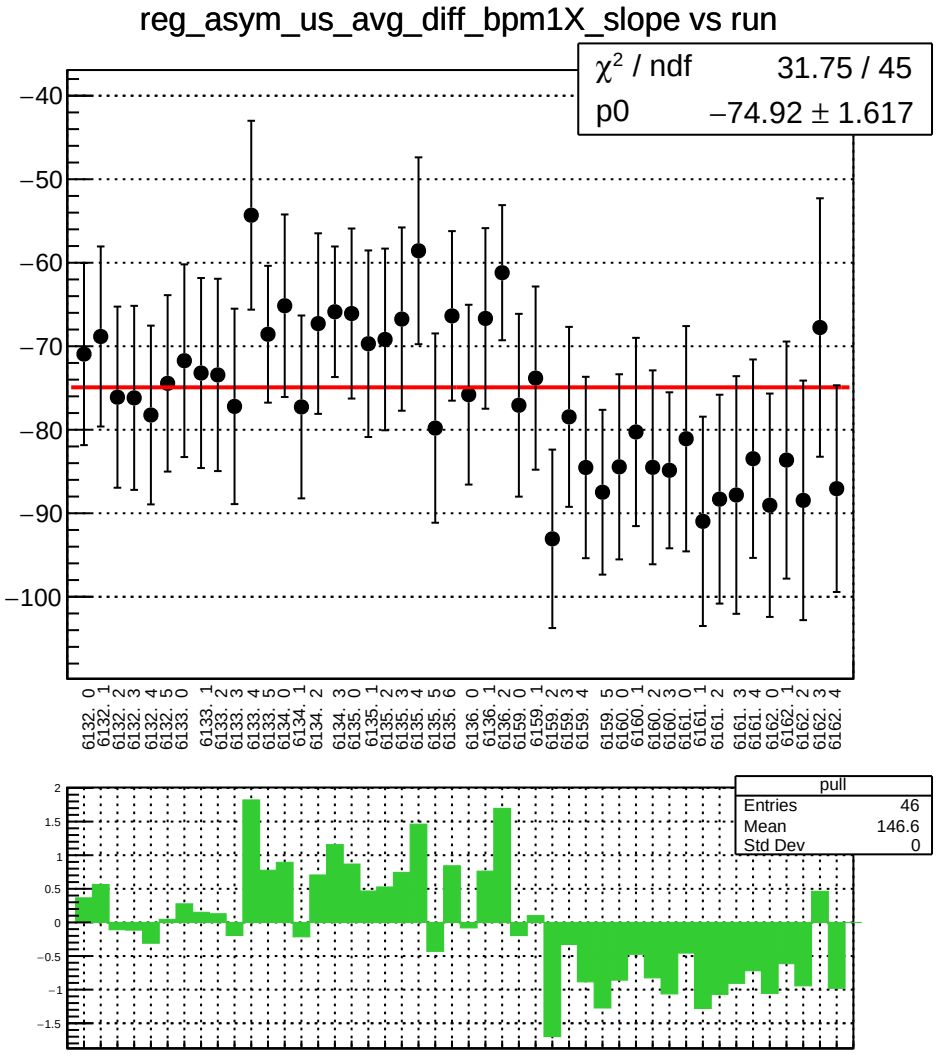

pull1D
Entries 46
Mean −0.005581
Std Dev 0.9311

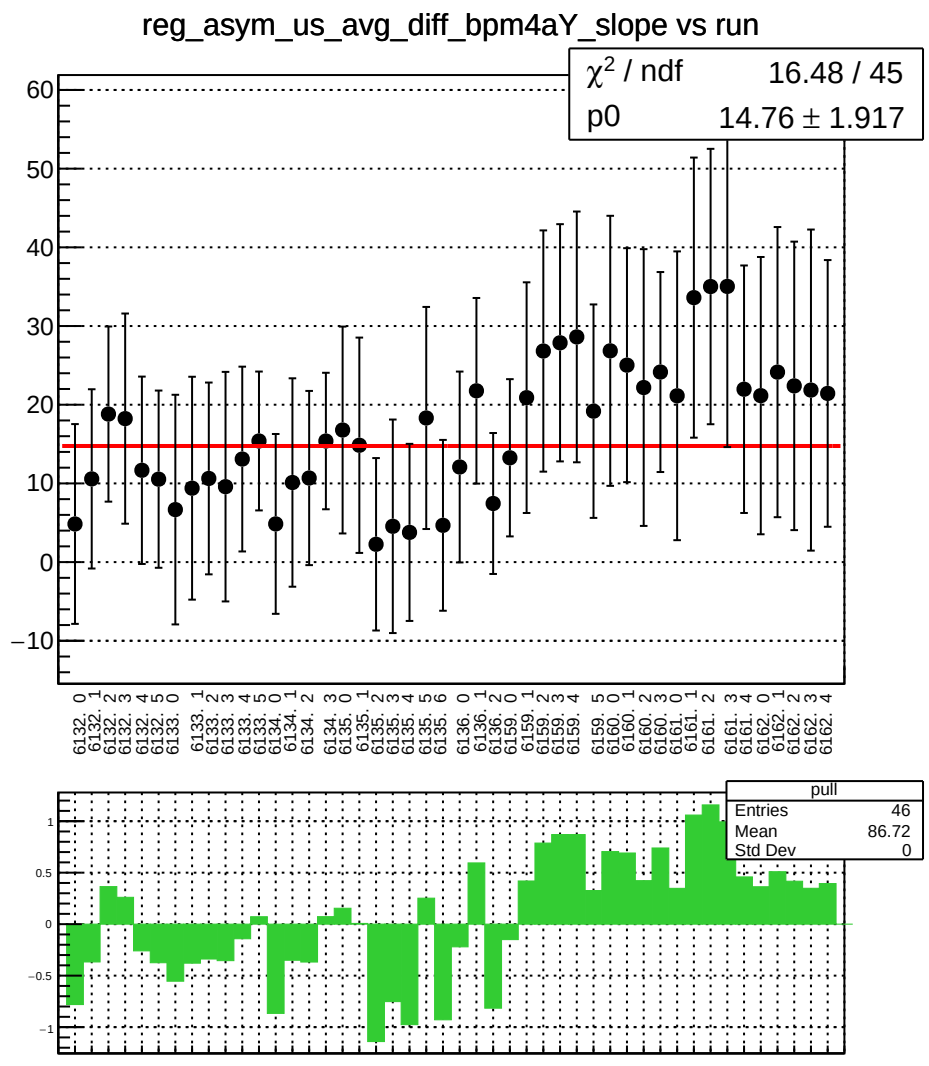

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 53.55 / 45
p0 0.7249 ± 0.4898
pull
Entries 46
Mean −31.53
Std Dev 0

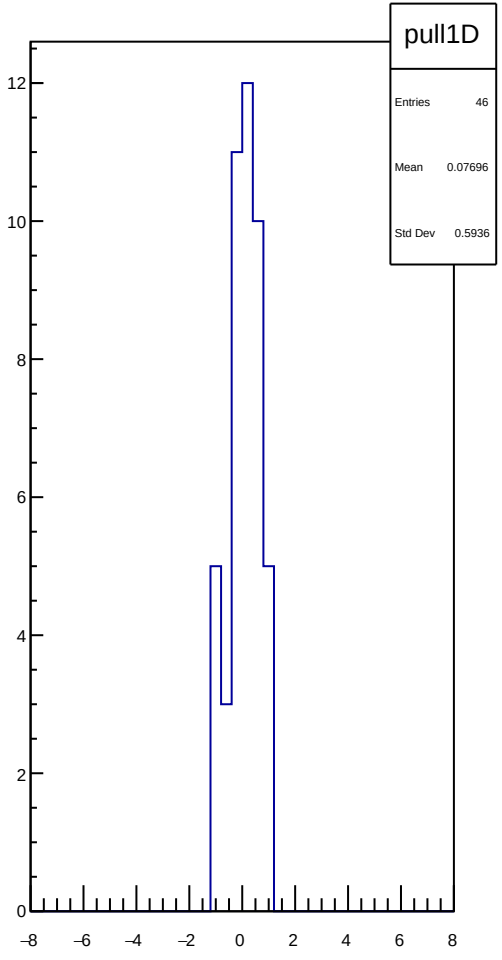

pull1D
Entries 46
Mean 0.02767
Std Dev 1.079

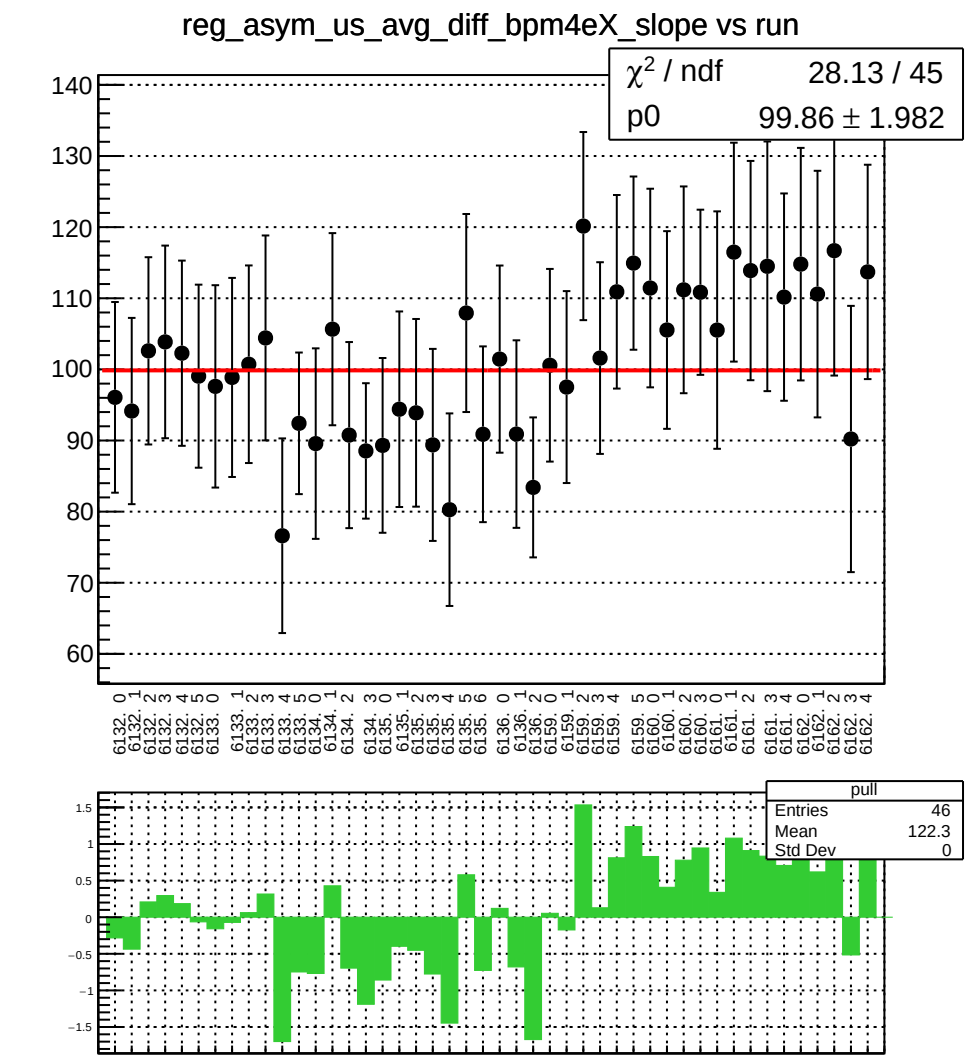

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 37.02 / 45
p0 0.01239 ± 0.03771
pull
Entries 46
Mean −7.843
Std Dev 0

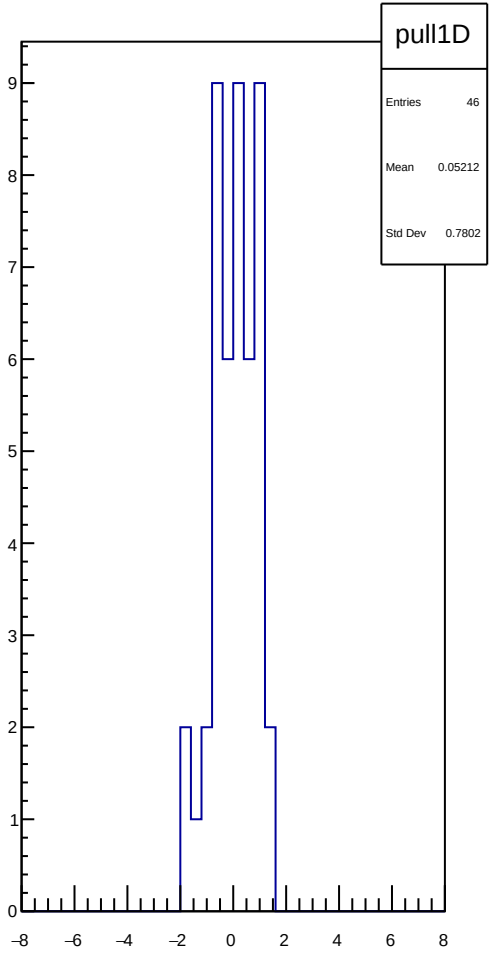

pull1D
Entries 46
Mean 0.02328
Std Dev 0.8968

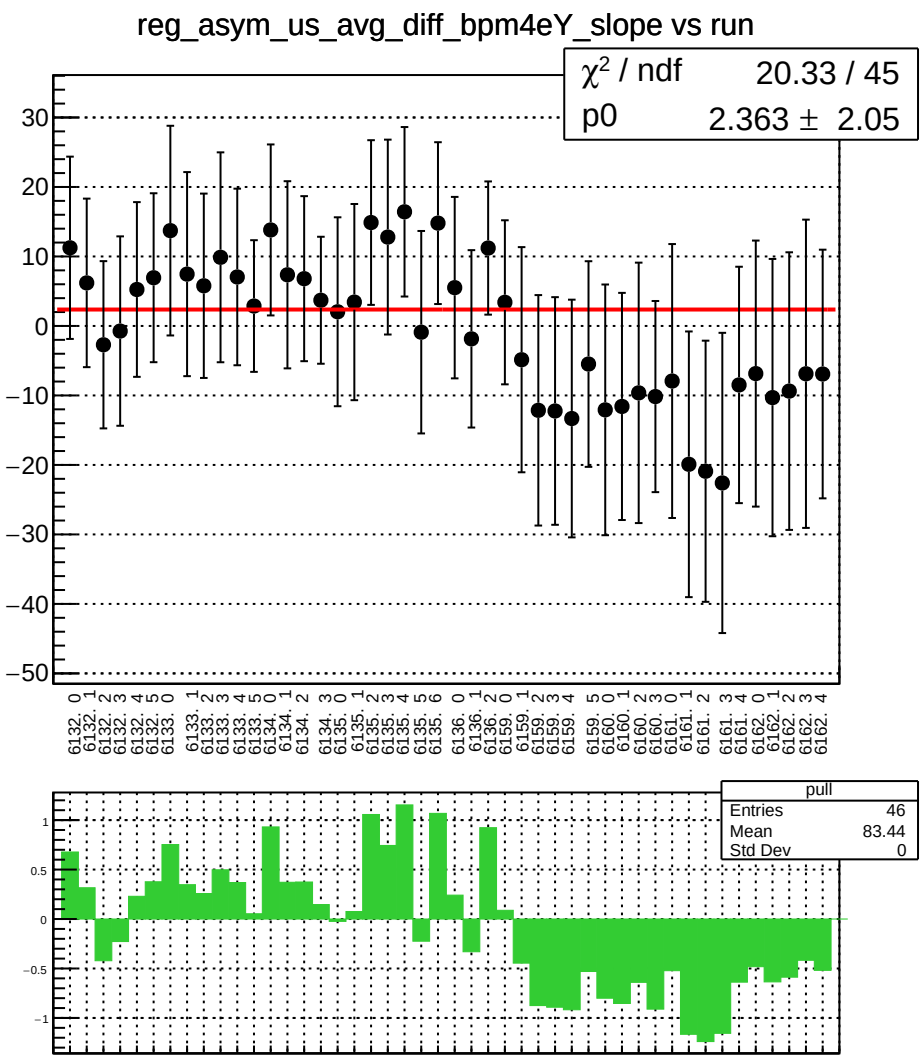

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 31.75 / 45
p0 −74.92 ± 1.617
−40
−50
−60
−70
−80
−90
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 146.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.04907
Std Dev 0.8293
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

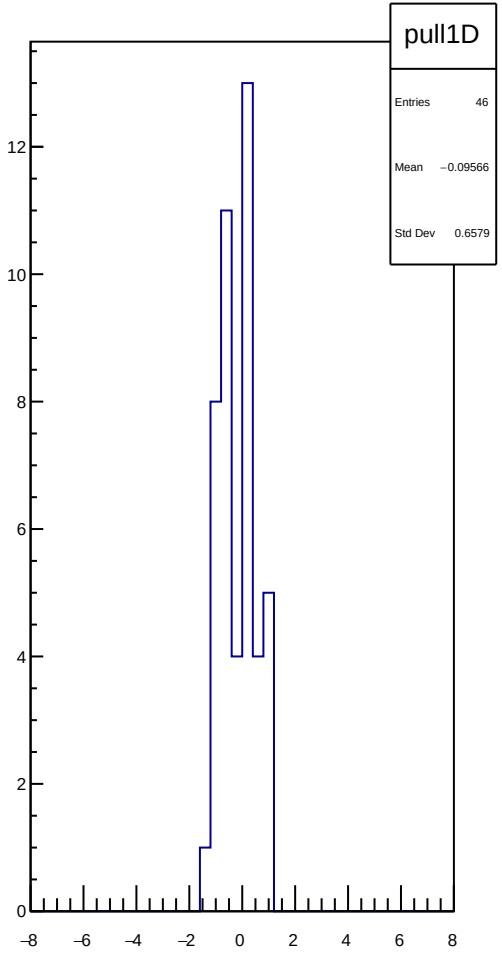

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.48 / 45
p0 14.76 ± 1.917
pull
Entries 46
Mean 86.72
Std Dev 0

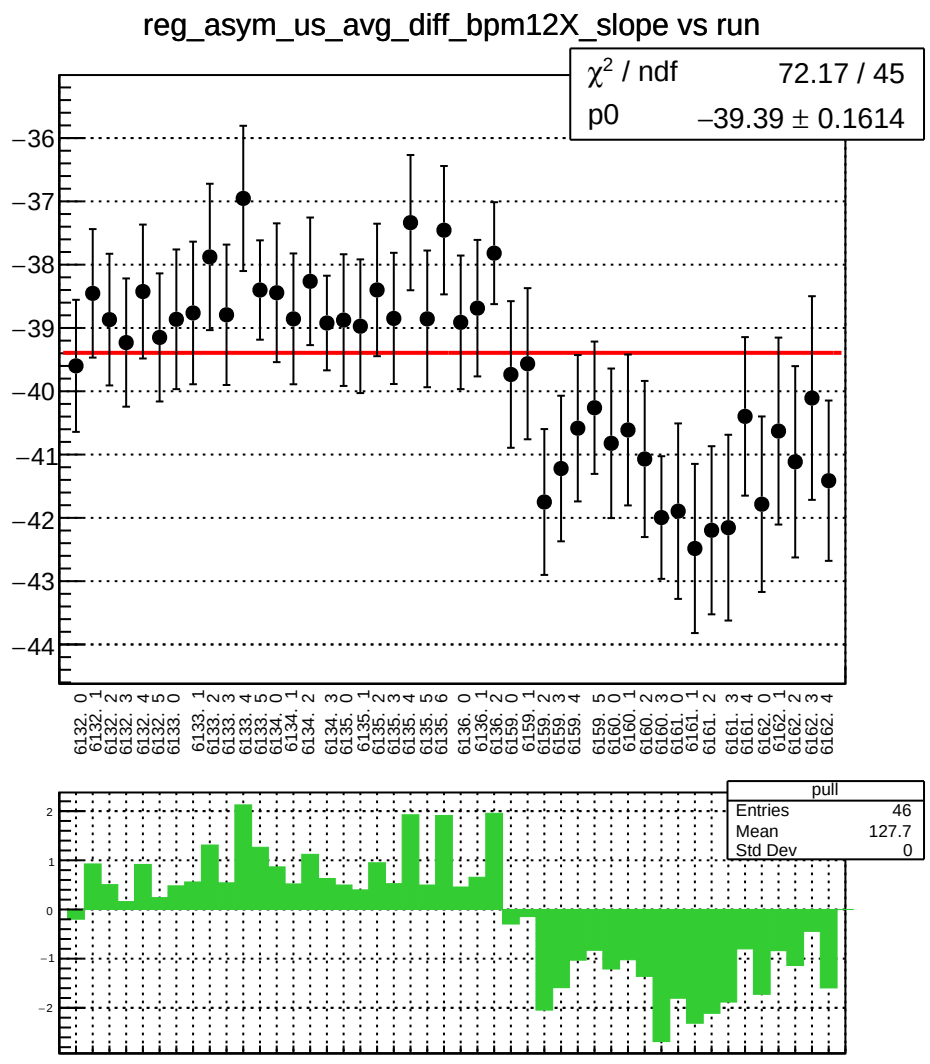

pull1D
Entries 46
Mean 0.07696
Std Dev 0.5936

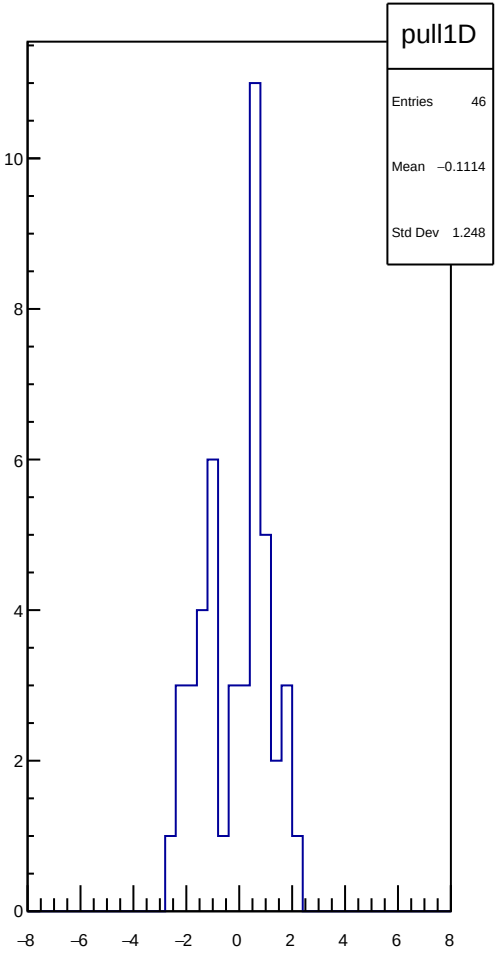

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.13 / 45
p0 99.86 ± 1.982
pull
Entries 46
Mean 122.3
Std Dev 0

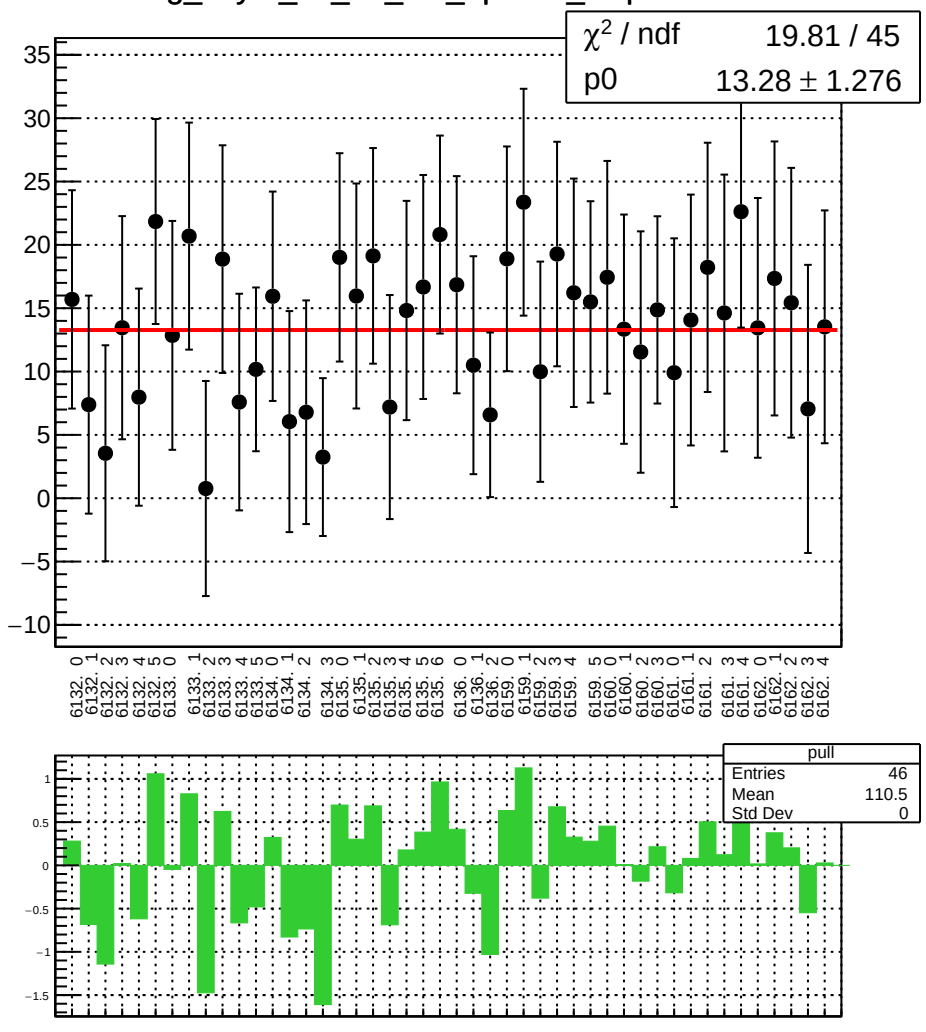

pull1D
Entries 46
Mean 0.05212
Std Dev 0.7802

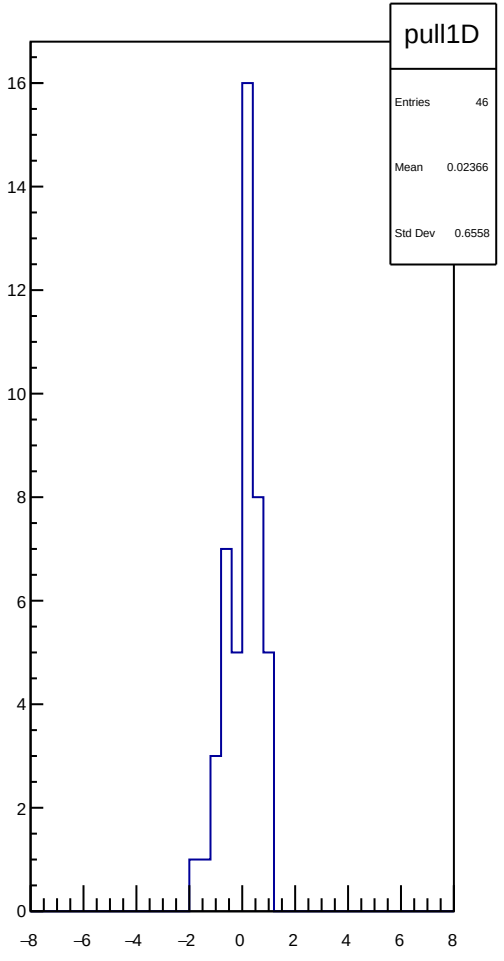

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.33 / 45
p0 2.363 ± 2.05
pull
Entries 46
Mean 83.44
Std Dev 0

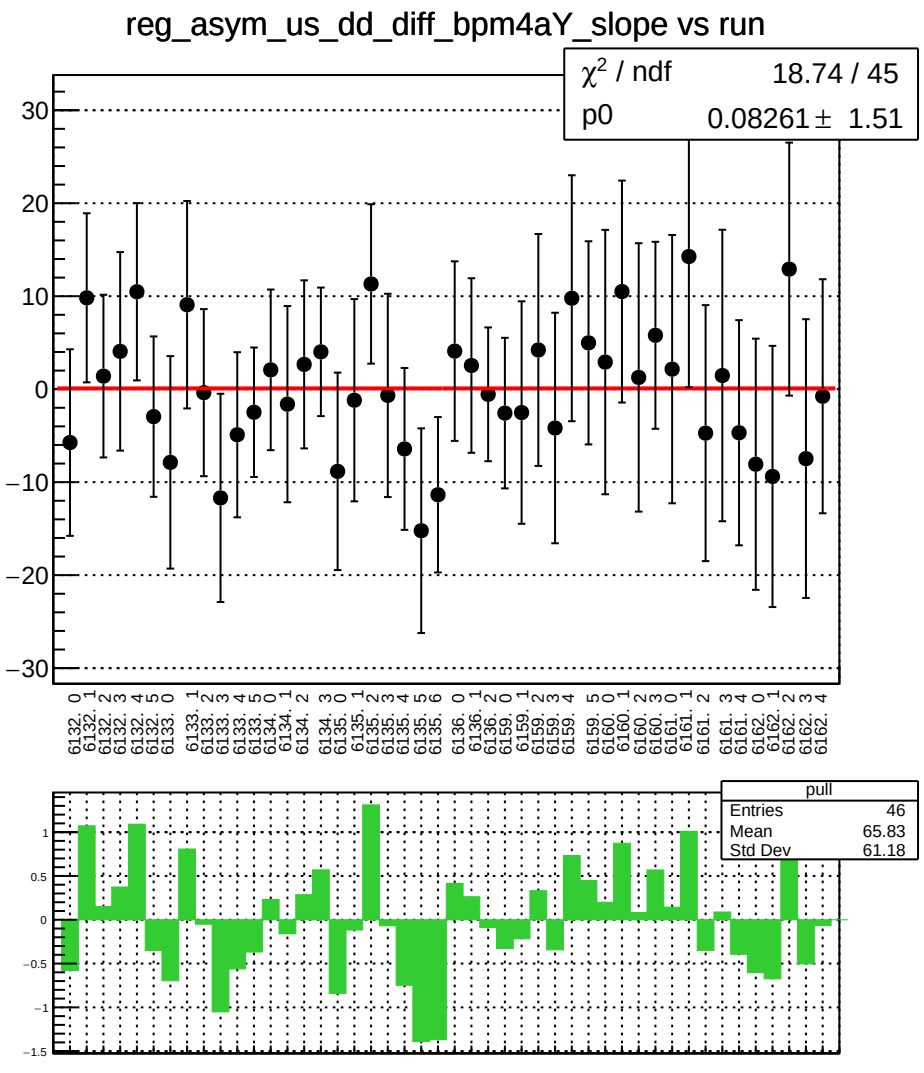

pull1D
Entries 46
Mean −0.09566
Std Dev 0.6579

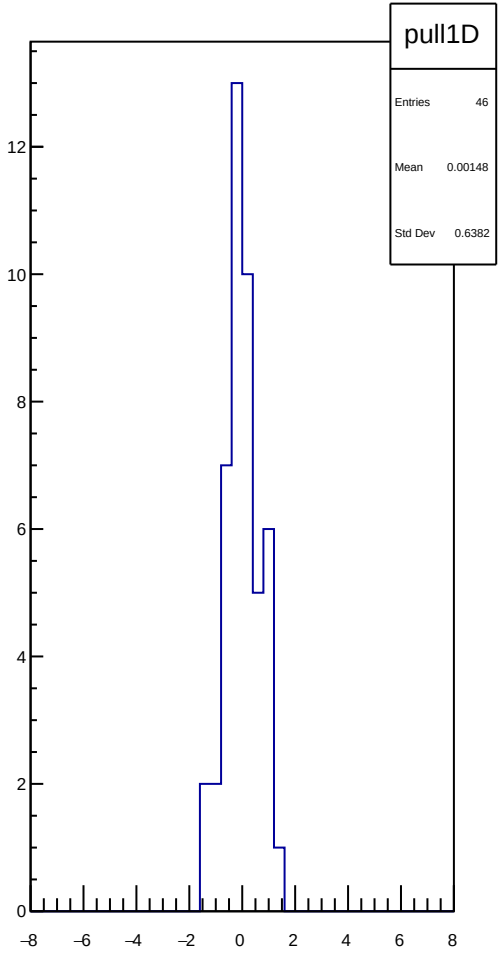

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 72.17 / 45
p0 −39.39 ± 0.1614
pull
Entries 46
Mean 127.7
Std Dev 0

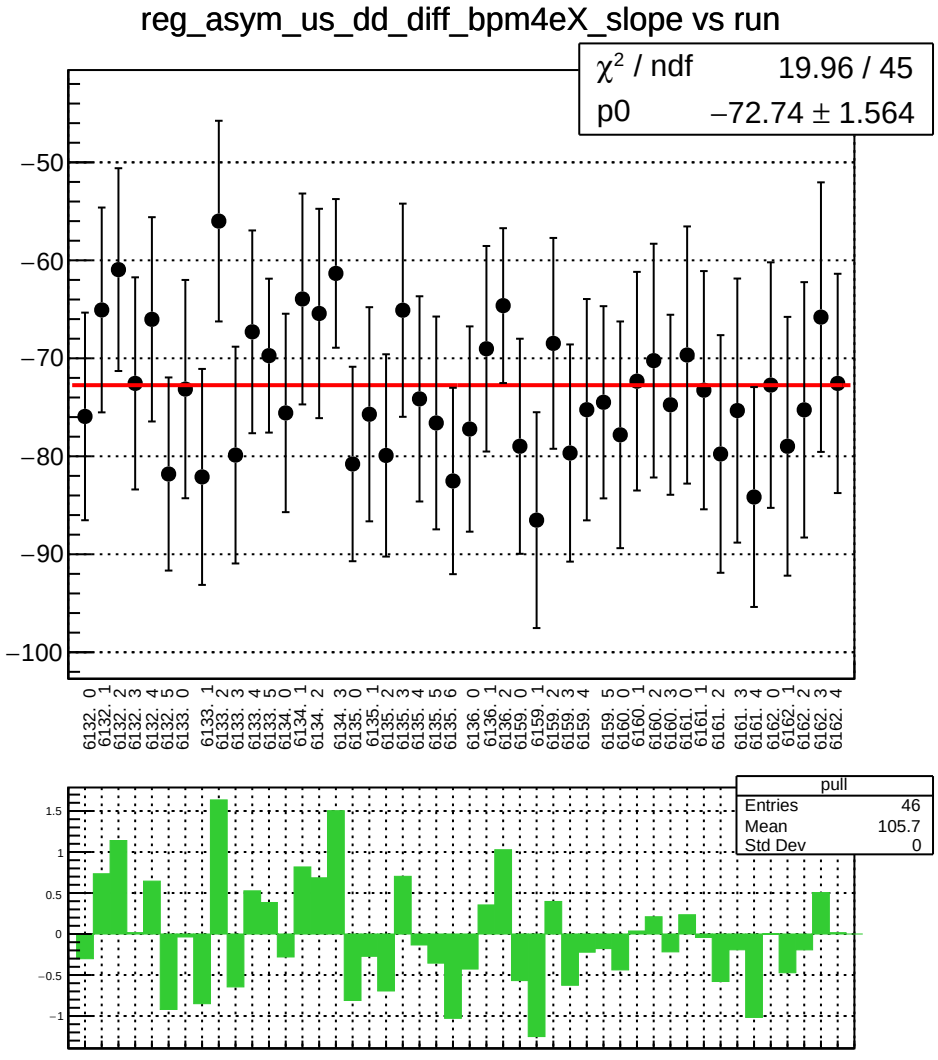

pull1D
Entries 46
Mean −0.1114
Std Dev 1.248

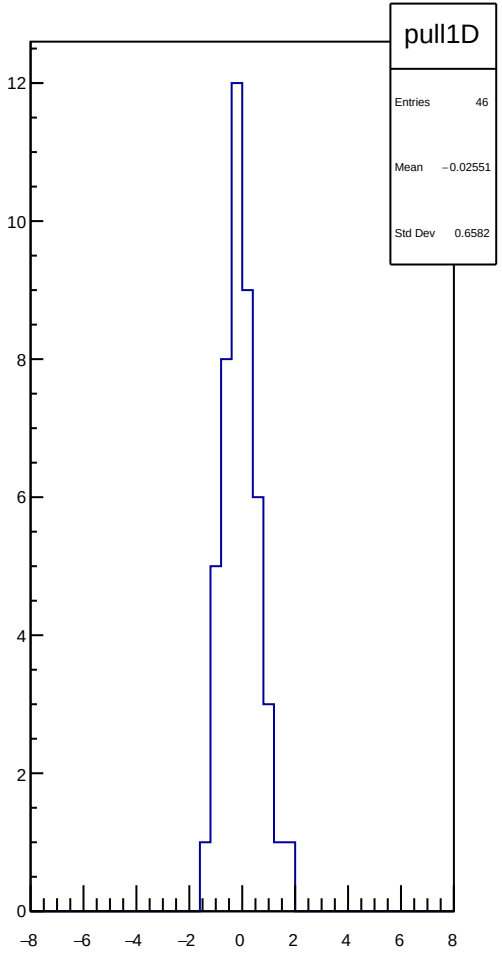

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 19.81 / 45
p0 13.28 ± 1.276
pull
Entries 46
Mean 110.5
Std Dev 0

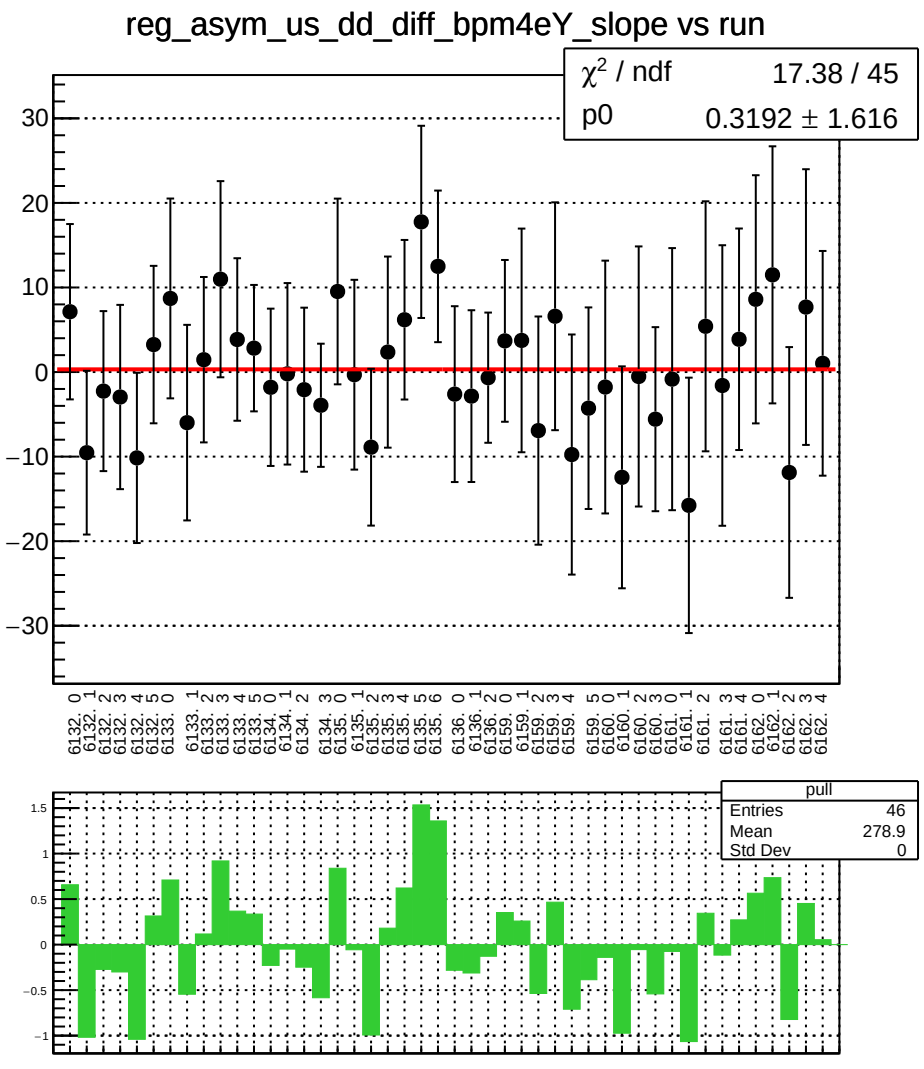

pull1D
Entries 46
Mean 0.02366
Std Dev 0.6558

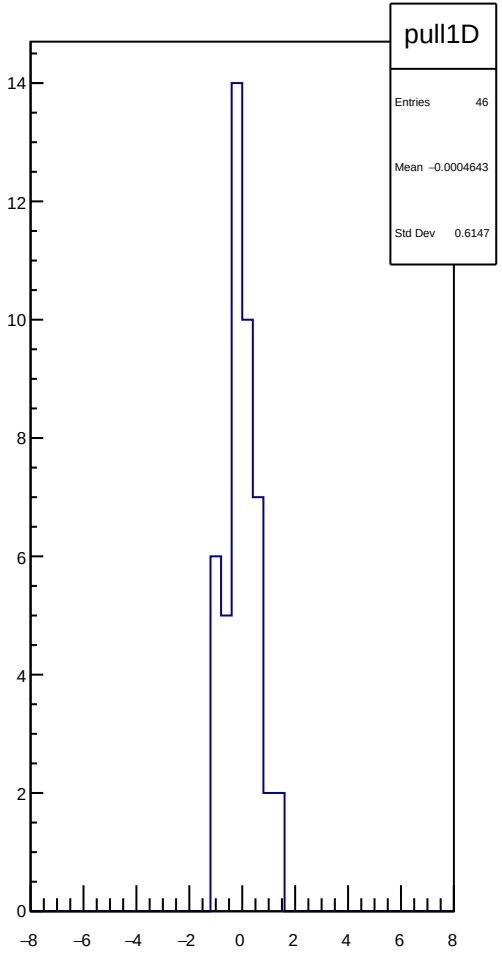

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.74 / 45
p0 0.08261 ± 1.51
pull
Entries 46
Mean 65.83
Std Dev 61.18

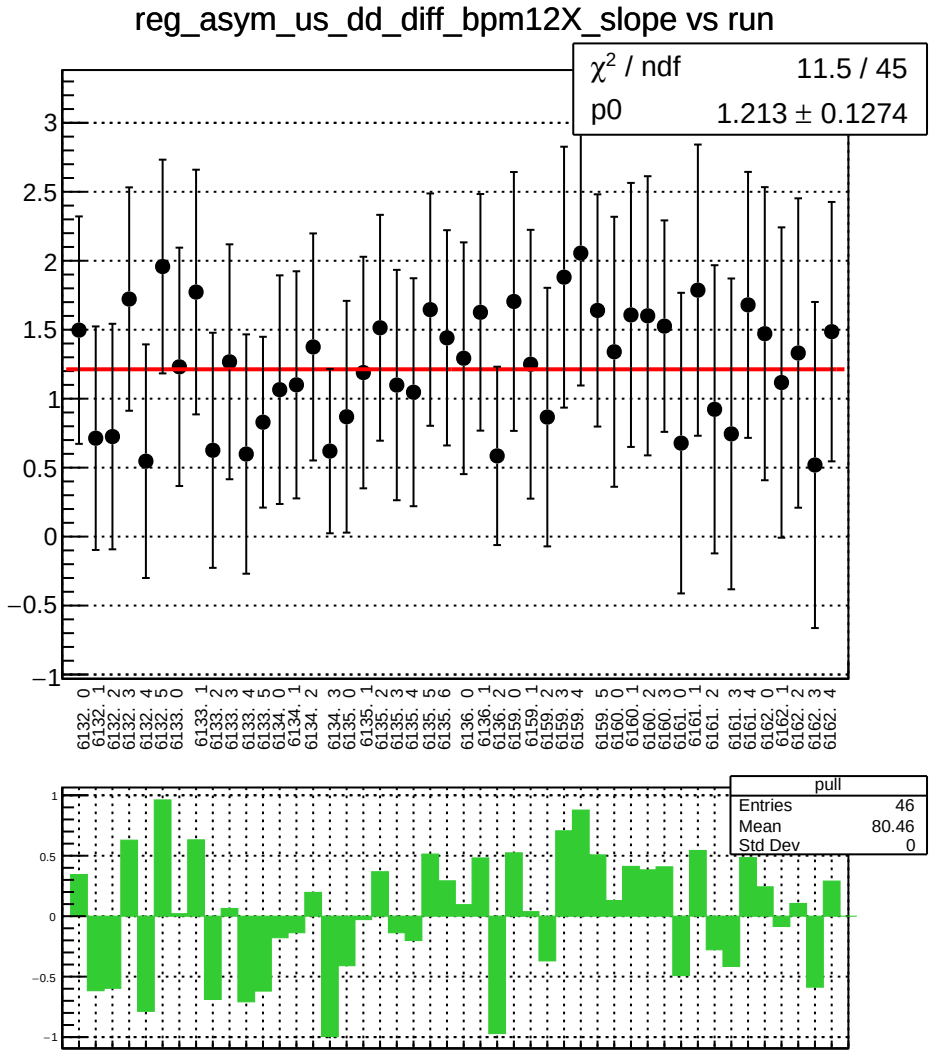

pull1D
Entries 46
Mean 0.00148
Std Dev 0.6382

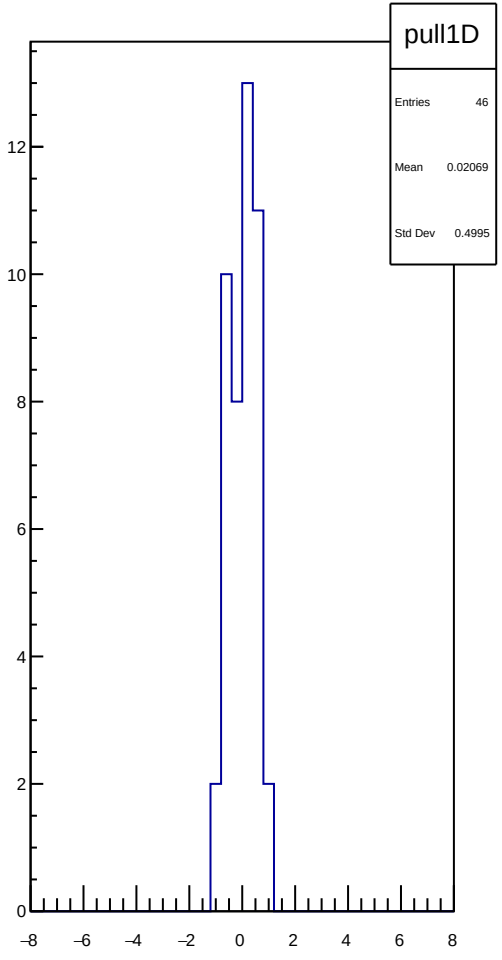

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.96 / 45
p0 −72.74 ± 1.564
pull
Entries 46
Mean 105.7
Std Dev 0

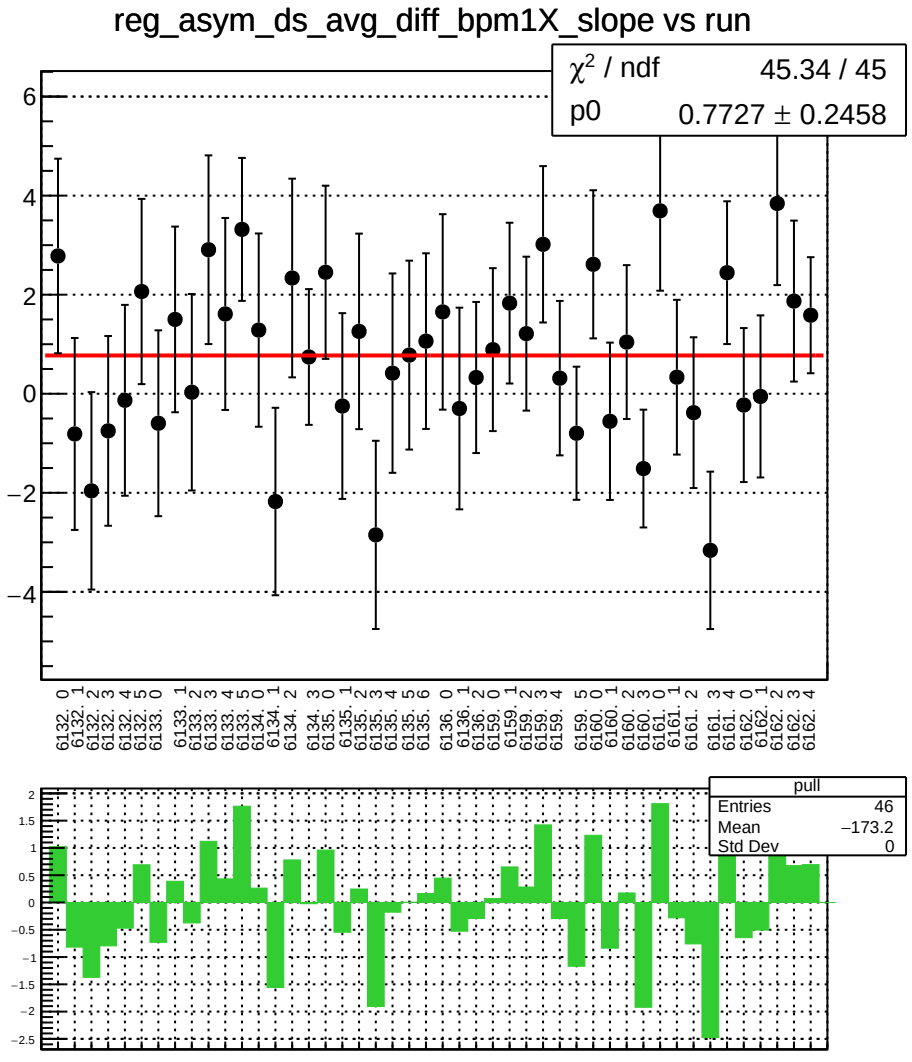

pull1D
Entries 46
Mean −0.02551
Std Dev 0.6582

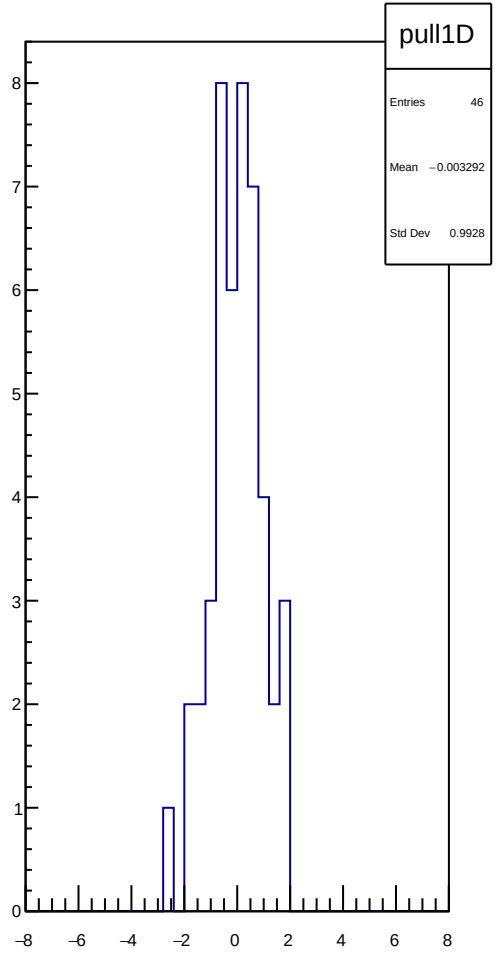

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.38 / 45
p0 0.3192 ± 1.616
pull
Entries 46
Mean 278.9
Std Dev 0

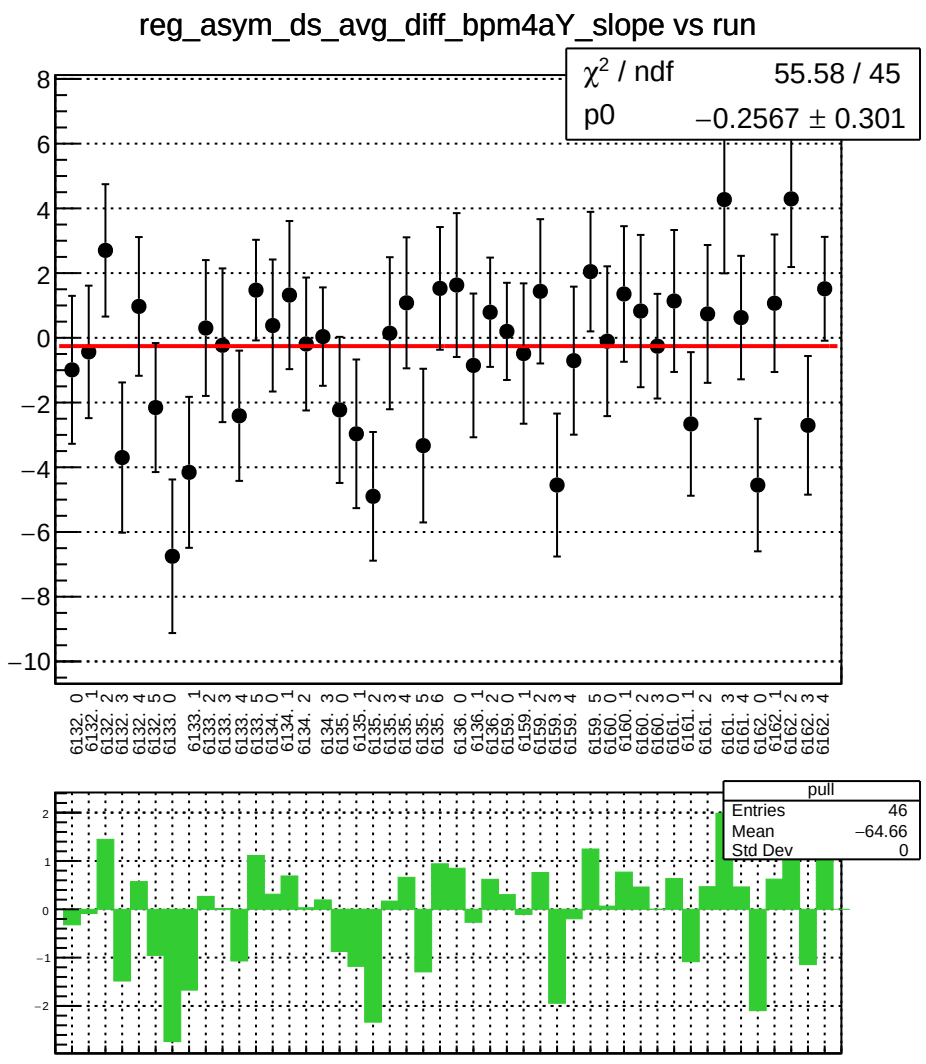

pull1D
Entries 46
Mean −0.0004643
Std Dev 0.6147

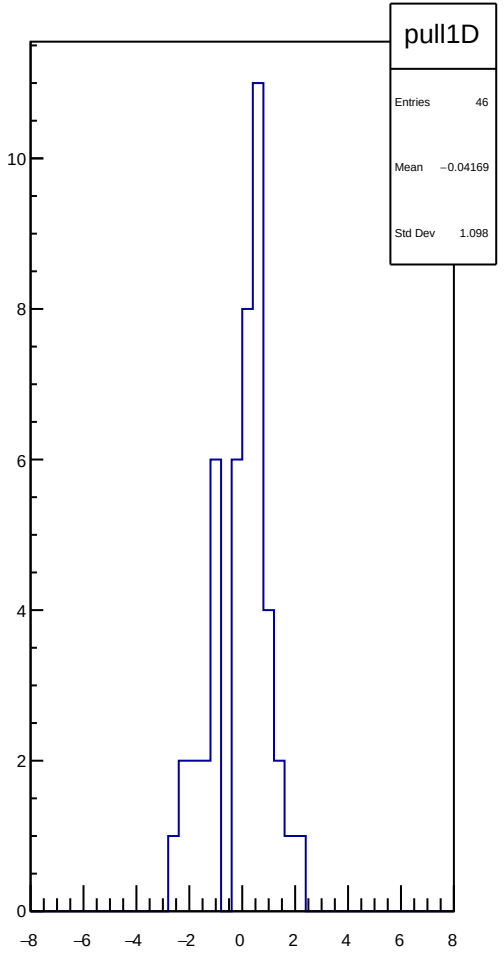

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 11.5 / 45
p0 1.213 ± 0.1274
pull
Entries 46
Mean 80.46
Std Dev 0

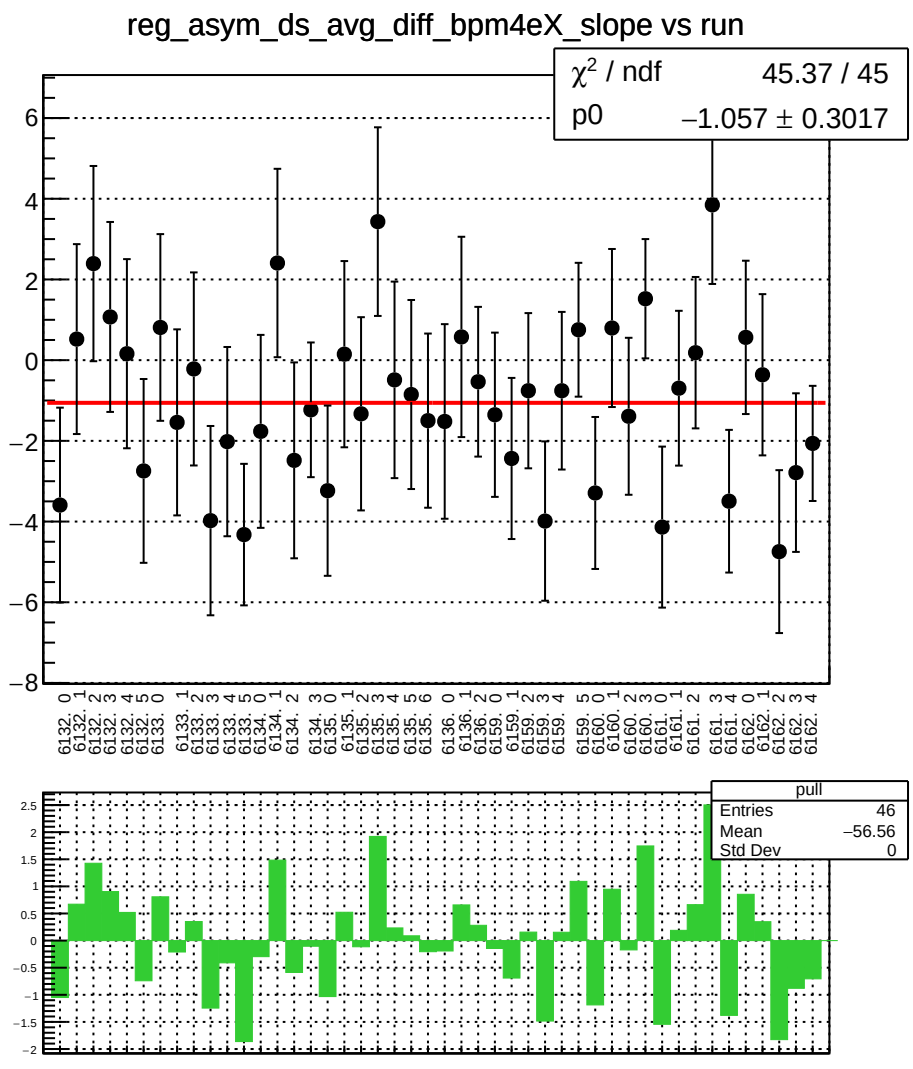

pull1D
Entries 46
Mean 0.02069
Std Dev 0.4995

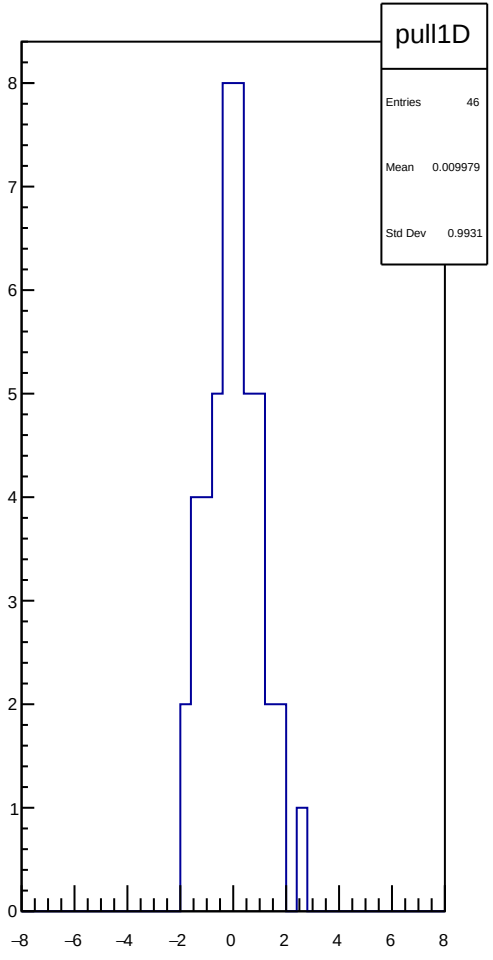

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 45.34 / 45
p0 0.7727 ± 0.2458
pull
Entries 46
Mean −173.2
Std Dev 0

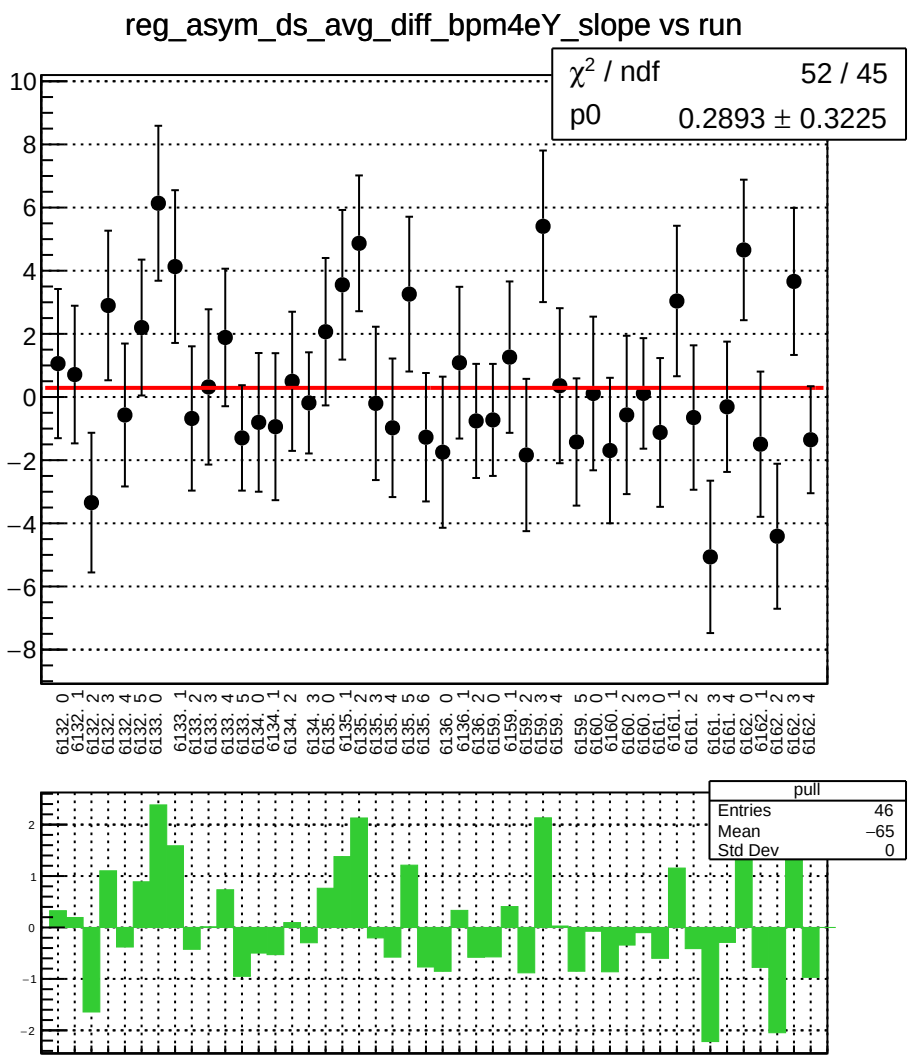

pull1D
Entries 46
Mean −0.003292
Std Dev 0.9928

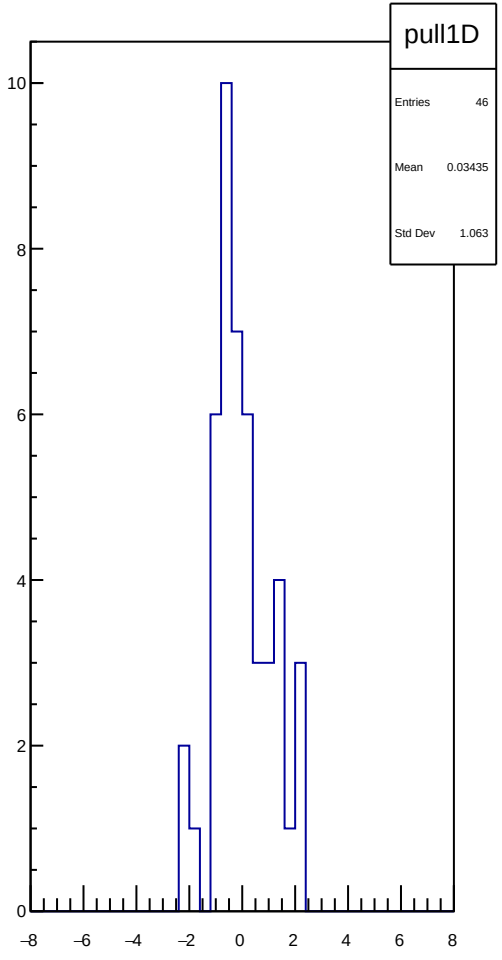

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 55.58 / 45
p0 −0.2567 ± 0.301
pull
Entries 46
Mean −64.66
Std Dev 0

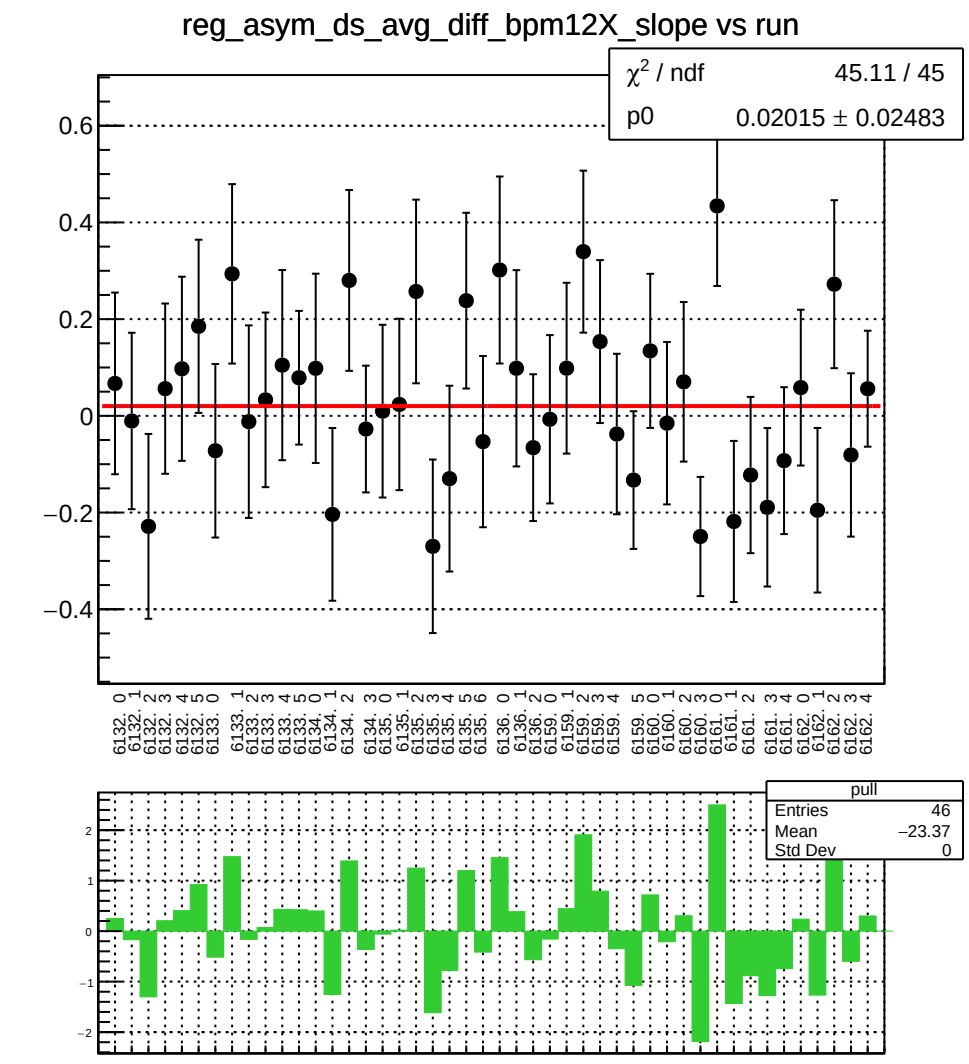

pull1D
Entries 46
Mean −0.04169
Std Dev 1.098

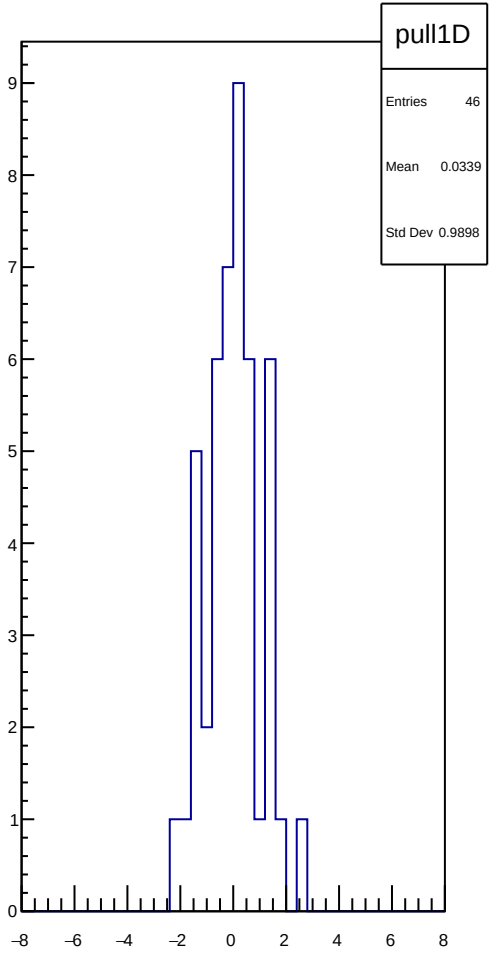

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.37 / 45
p0 −1.057 ± 0.3017
pull
Entries 46
Mean −56.56
Std Dev 0

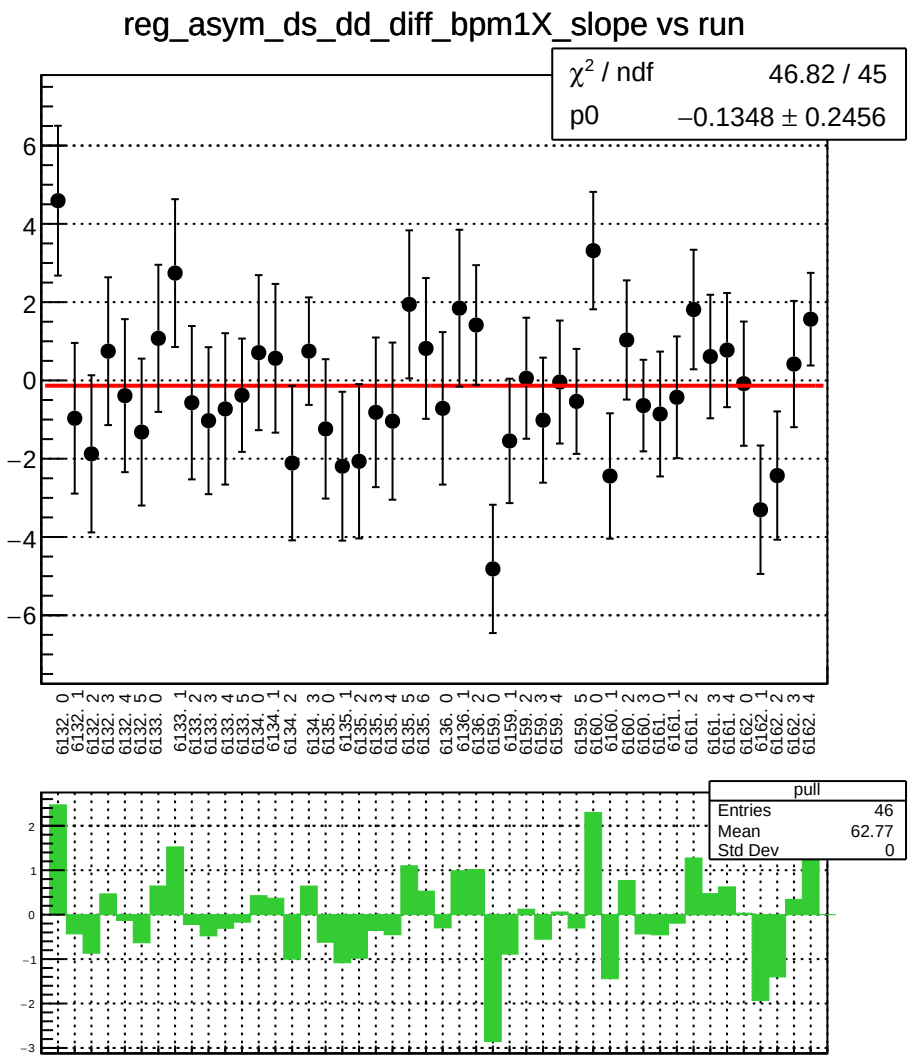

pull1D
Entries 46
Mean 0.009979
Std Dev 0.9931

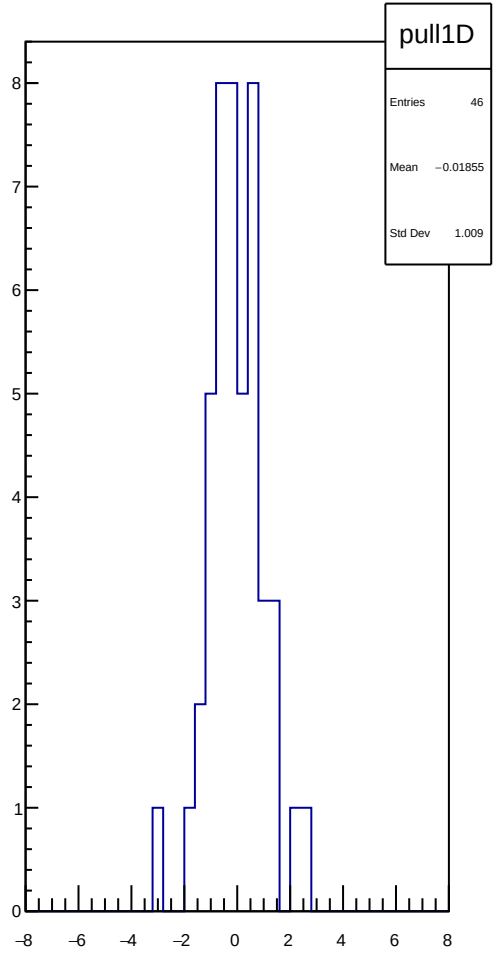

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 52 / 45
p0 0.2893 ± 0.3225
pull
Entries 46
Mean −65
Std Dev 0

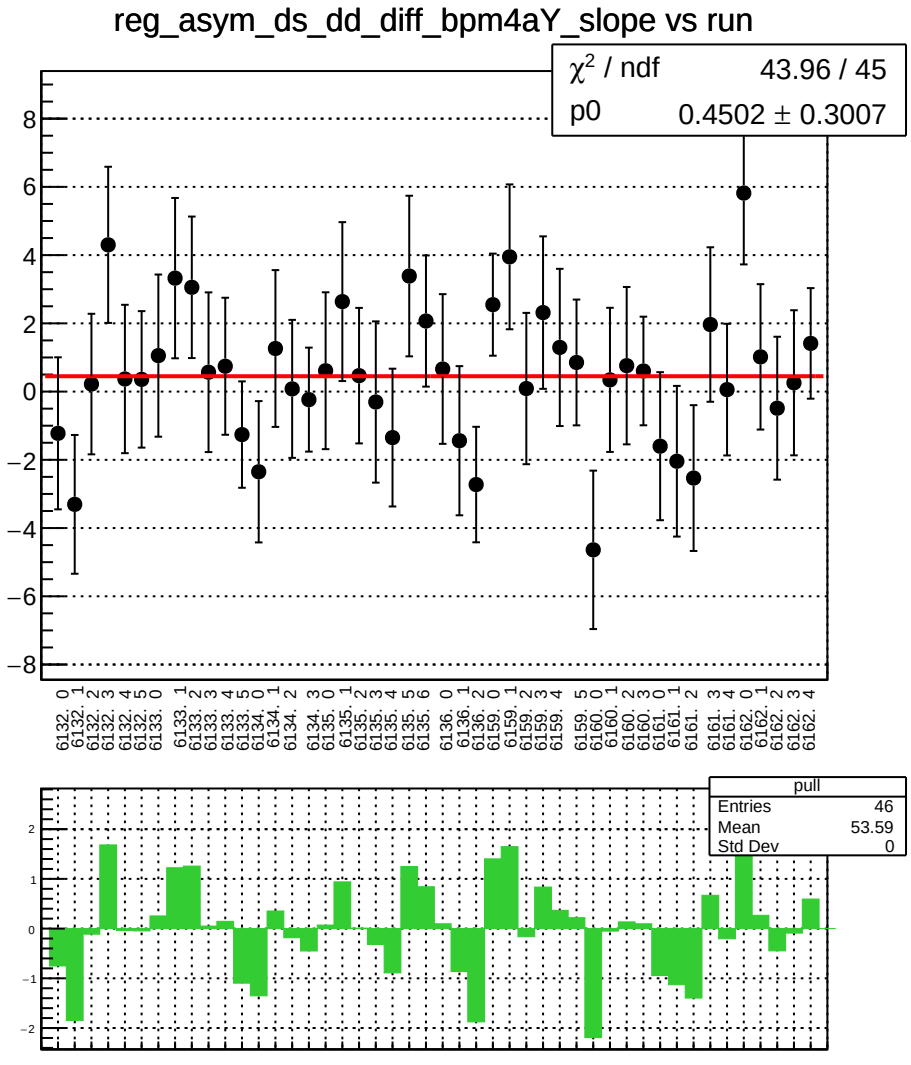

pull1D
Entries 46
Mean 0.03435
Std Dev 1.063

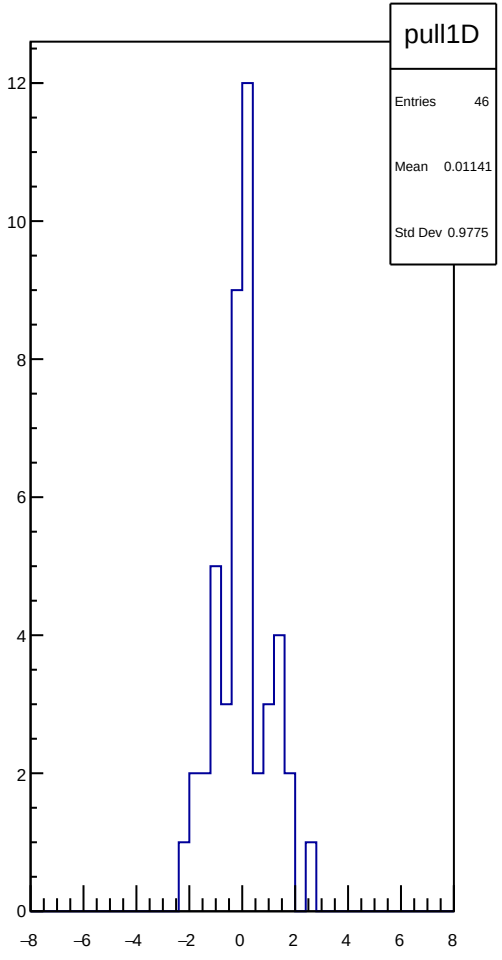

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 45.11 / 45
p0 0.02015 ± 0.02483
pull
Entries 46
Mean −23.37
Std Dev 0

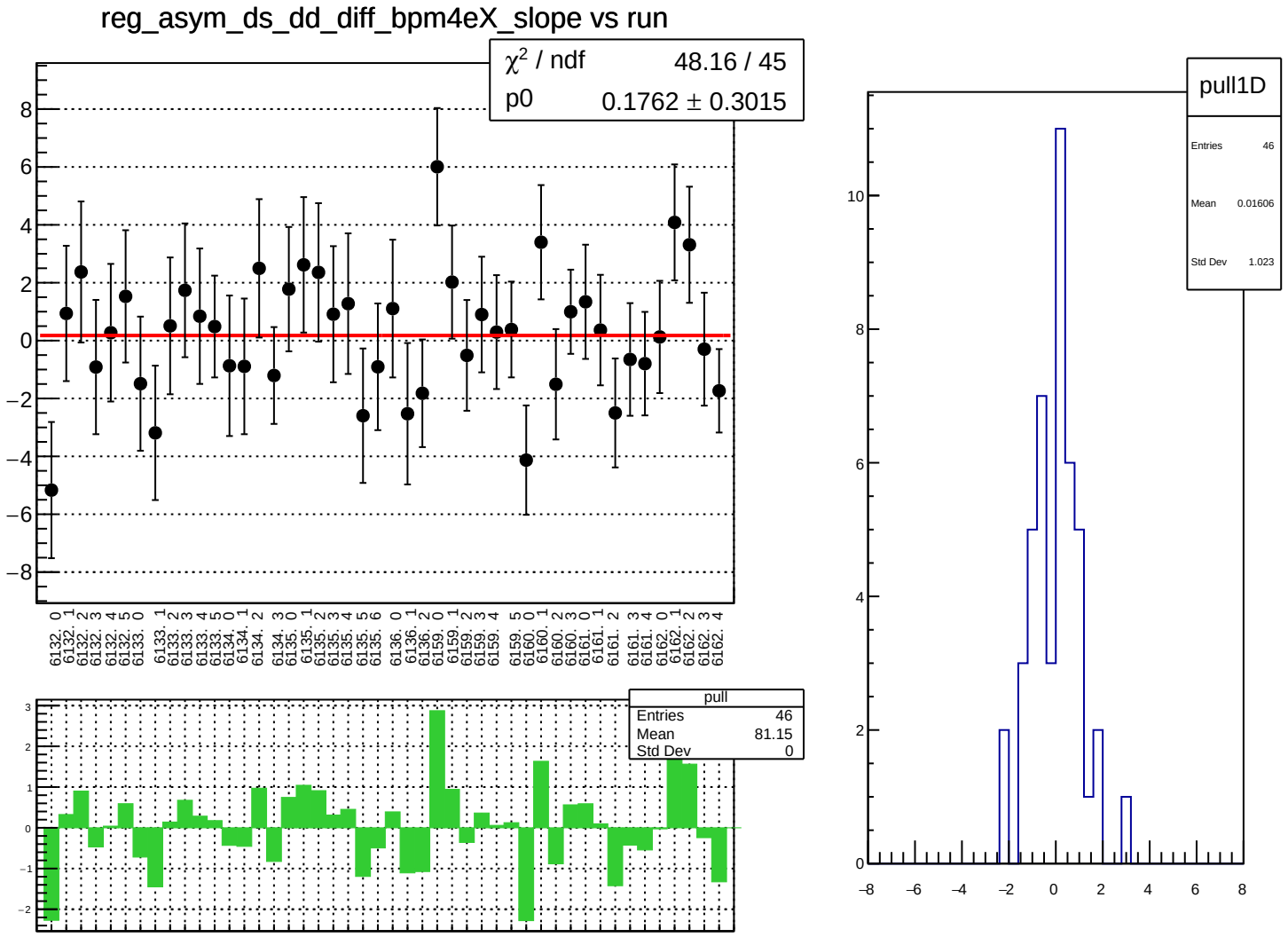

pull1D
Entries 46
Mean 0.0339
Std Dev 0.9898

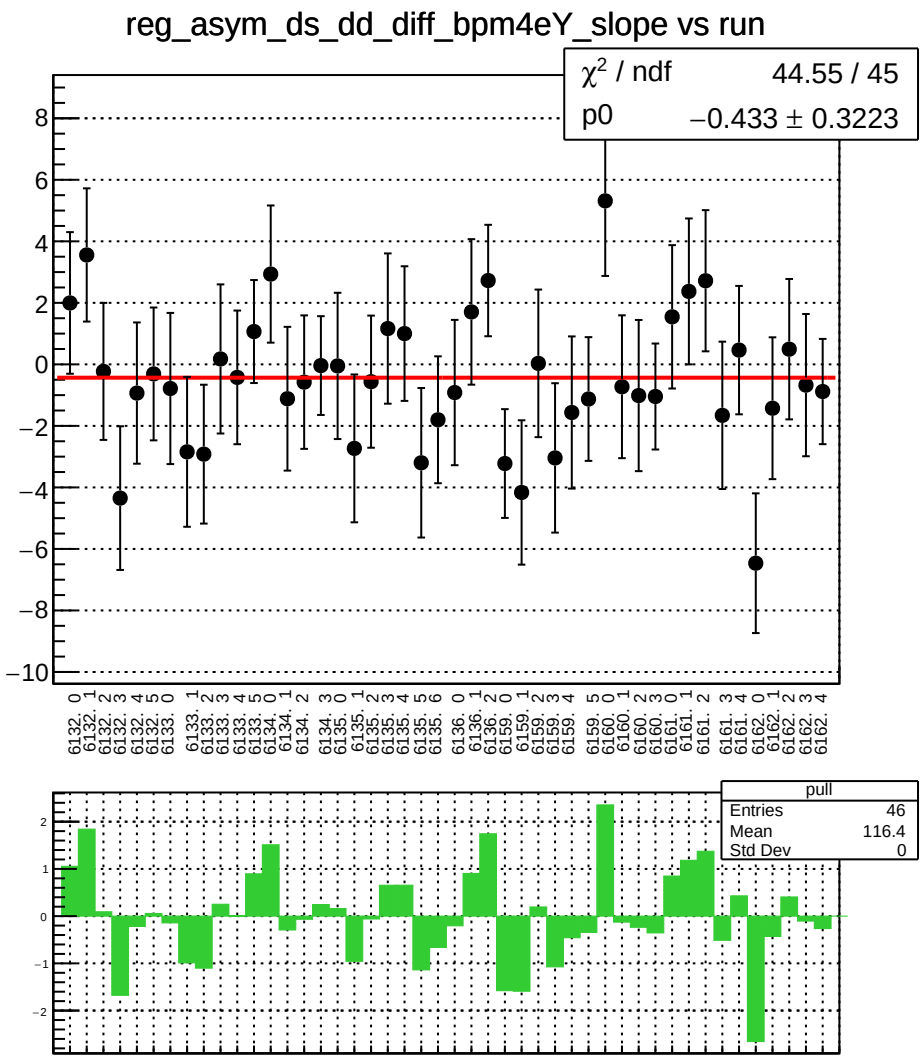

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 46.82 / 45
p0 −0.1348 ± 0.2456
pull
Entries 46
Mean 62.77
Std Dev 0

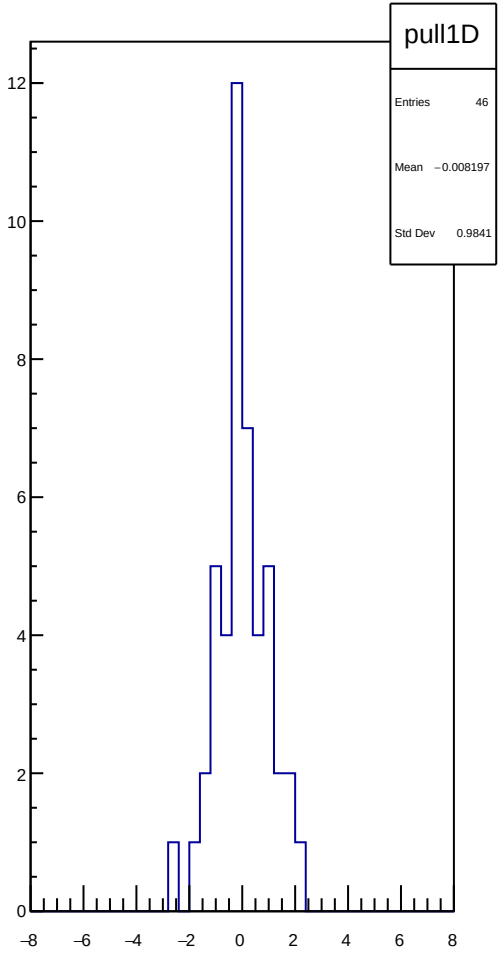

pull1D
Entries 46
Mean −0.01855
Std Dev 1.009

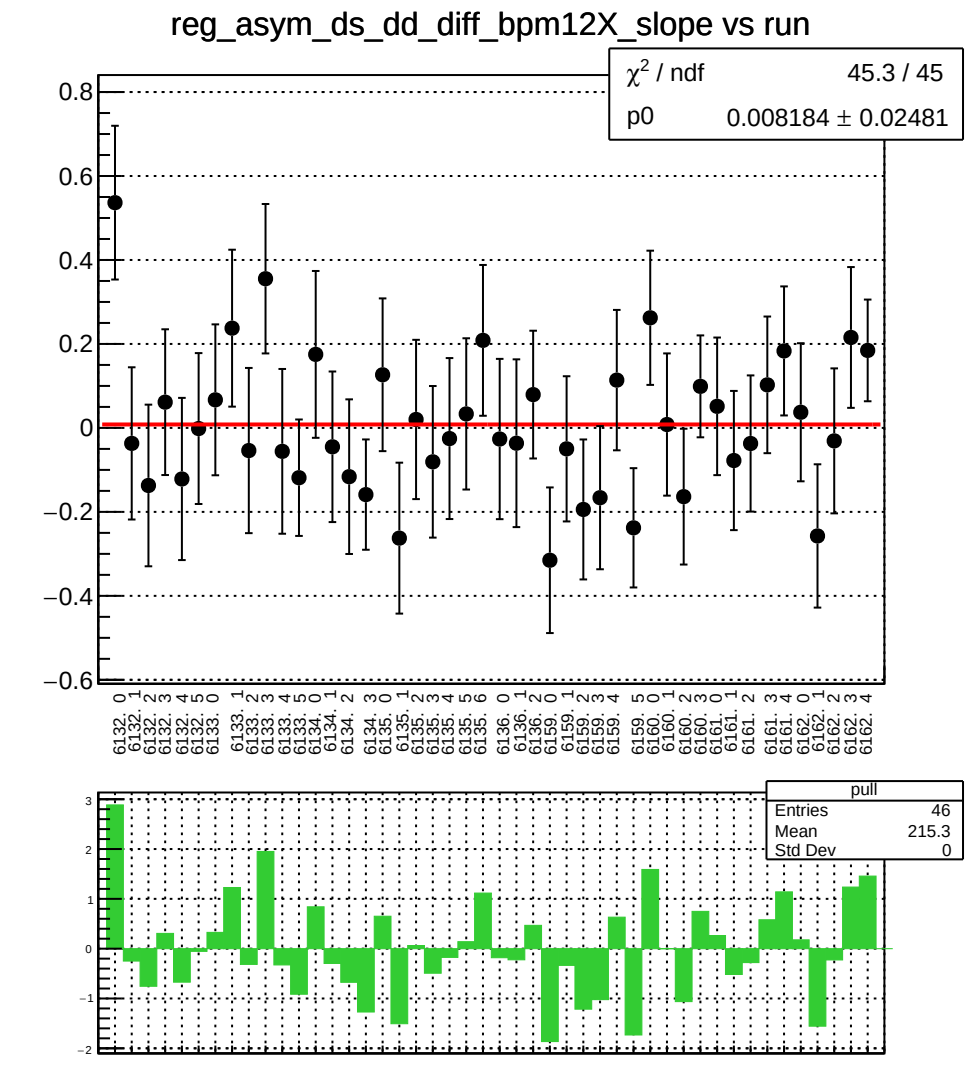

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 43.96 / 45
p0 0.4502 ± 0.3007
pull
Entries 46
Mean 53.59
Std Dev 0

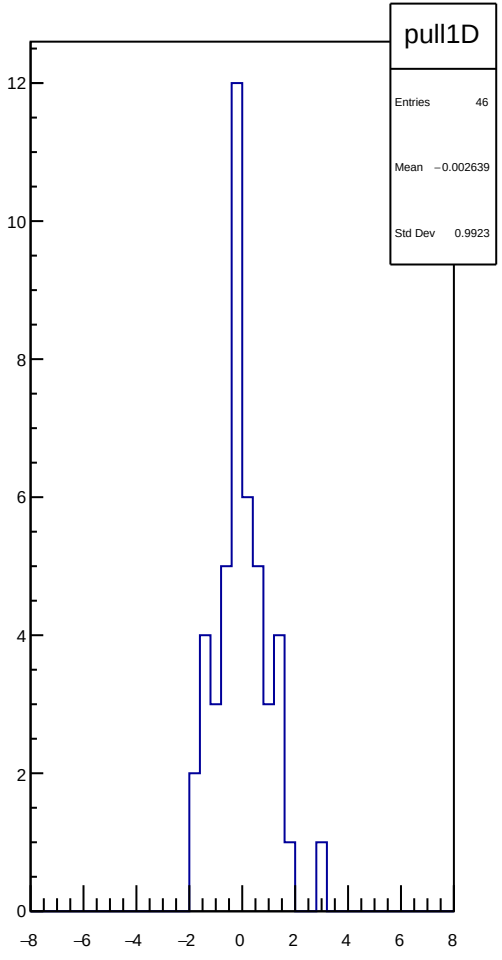

pull1D
Entries 46
Mean 0.01141
Std Dev 0.9775

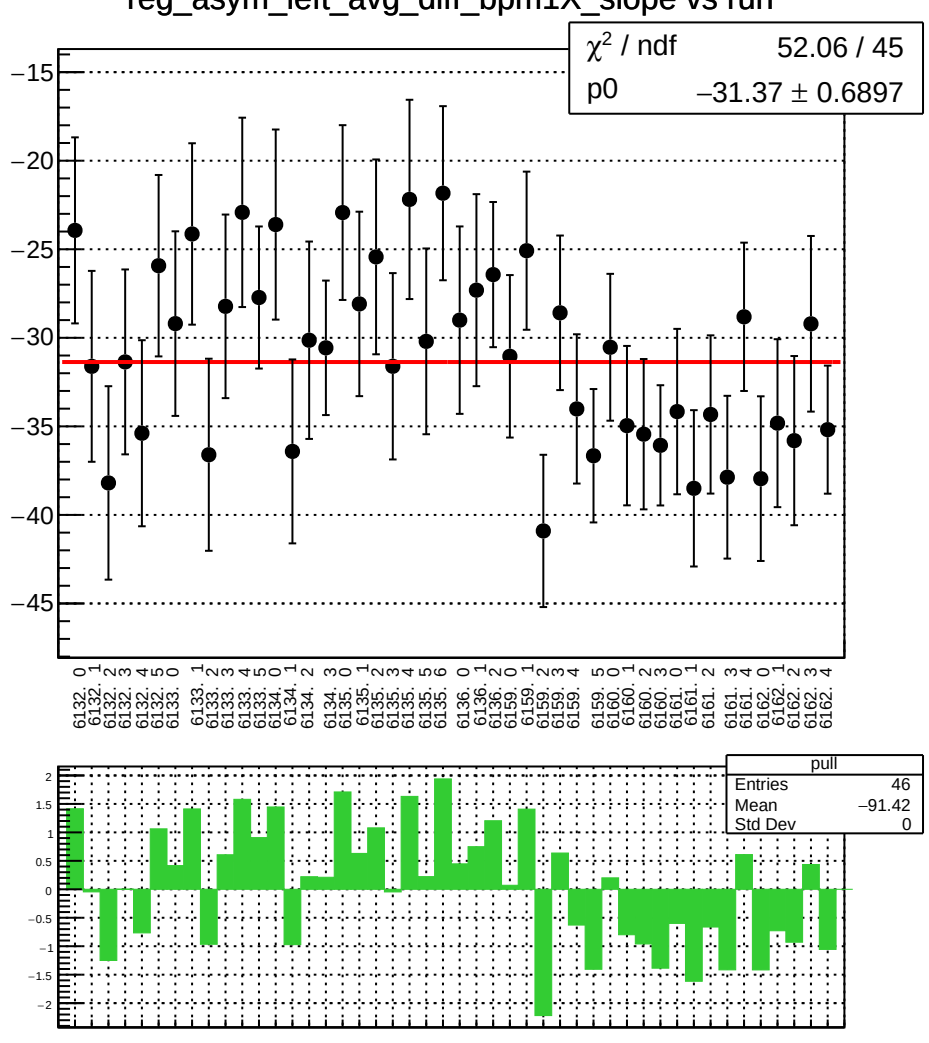

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.16 / 45
p0 0.1762 ± 0.3015
pull
Entries 46
Mean 81.15
Std Dev 0
pull1D
Entries 46
Mean 0.01606
Std Dev 1.023

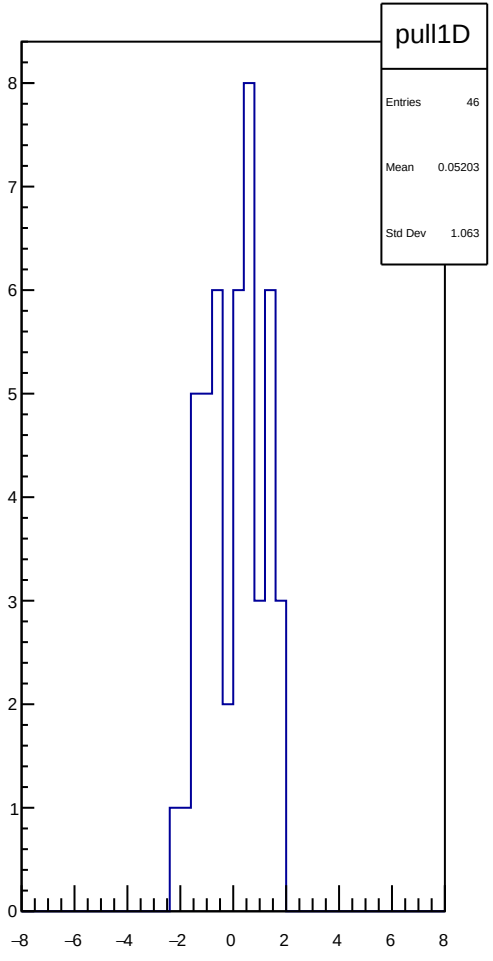

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 44.55 / 45
p0 −0.433 ± 0.3223
pull
Entries 46
Mean 116.4
Std Dev 0

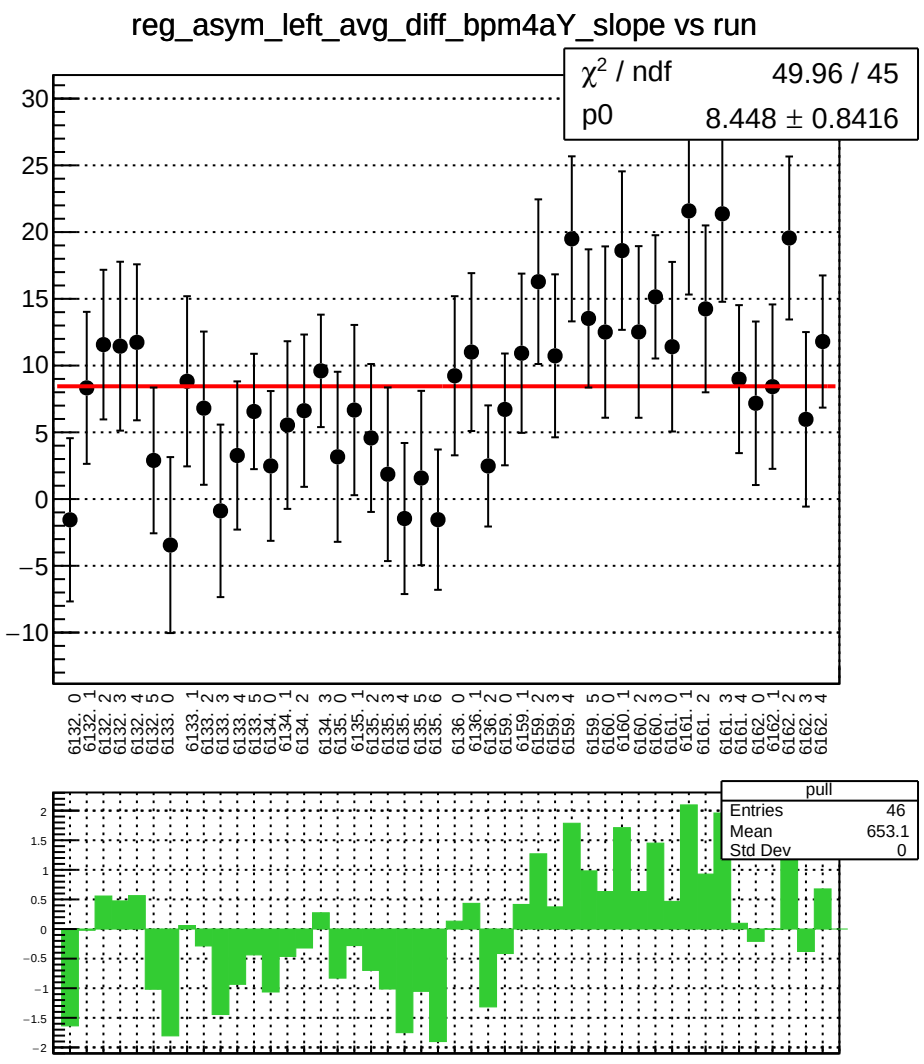

pull1D
Entries 46
Mean −0.008197
Std Dev 0.9841

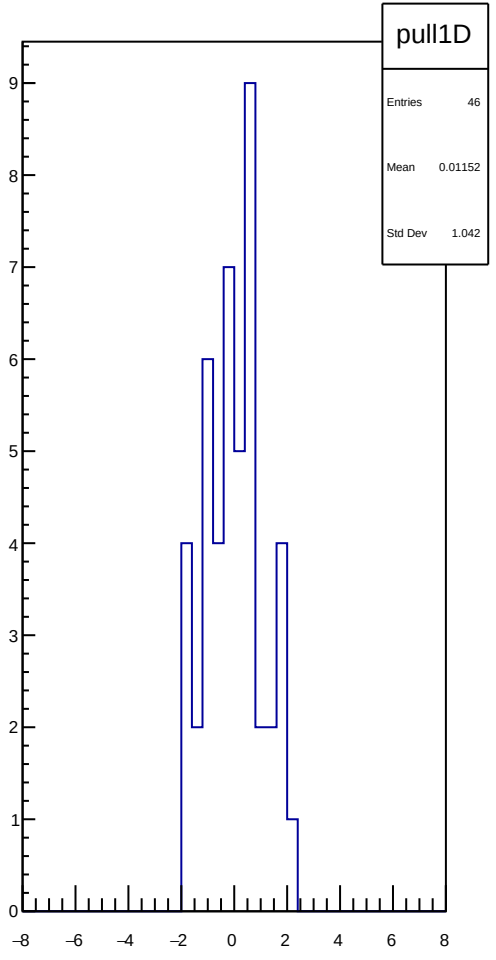

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 45.3 / 45
p0 0.008184 ± 0.02481
pull
Entries 46
Mean 215.3
Std Dev 0

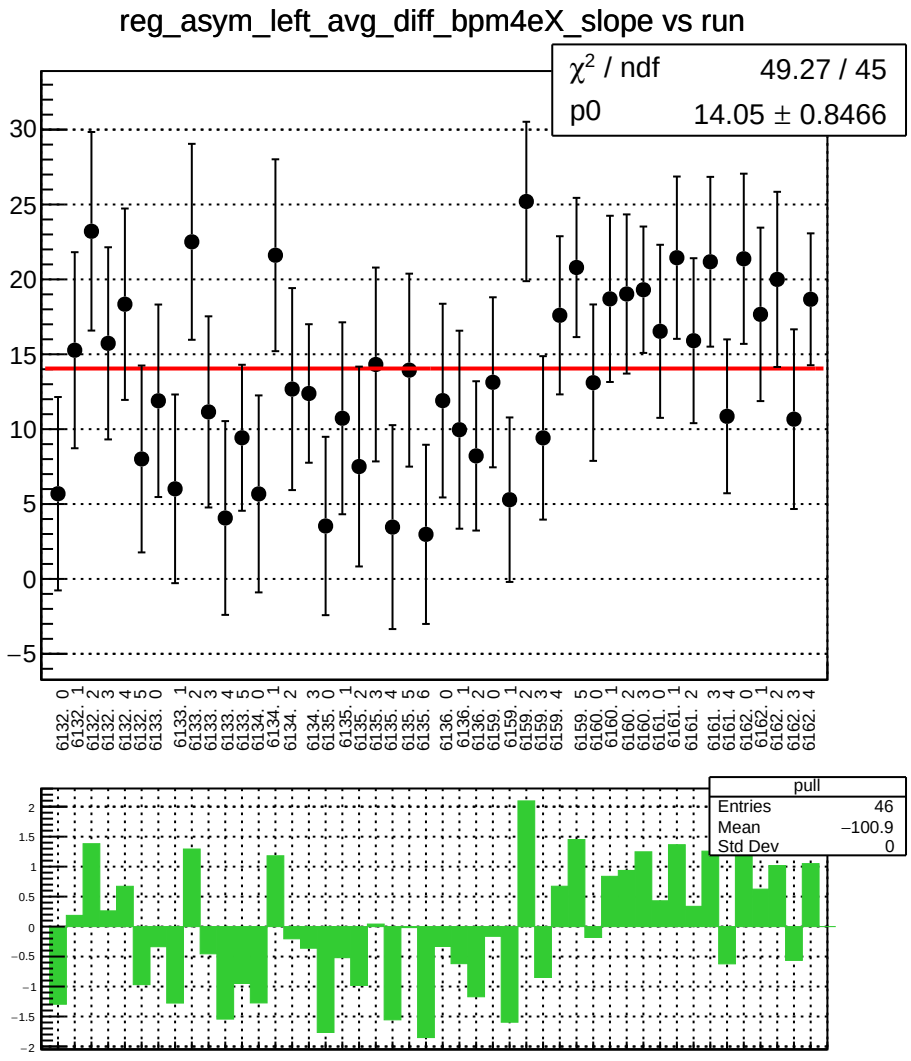

pull1D
Entries 46
Mean −0.002639
Std Dev 0.9923

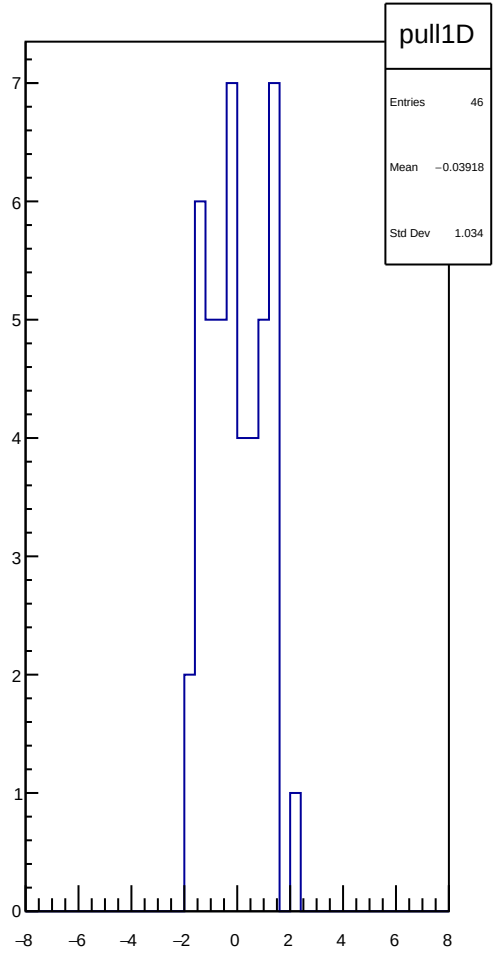

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 52.06 / 45
p0 −31.37 ± 0.6897
pull
Entries 46
Mean −91.42
Std Dev 0

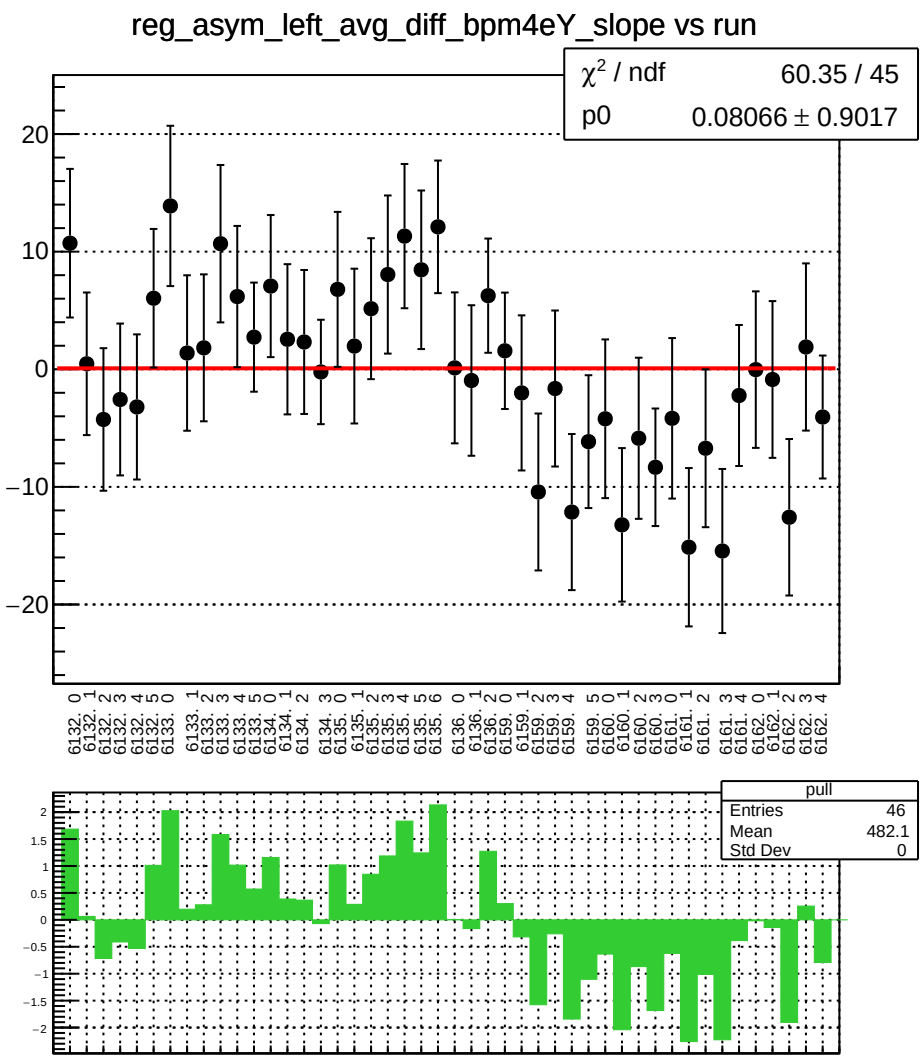

pull1D
Entries 46
Mean 0.05203
Std Dev 1.063

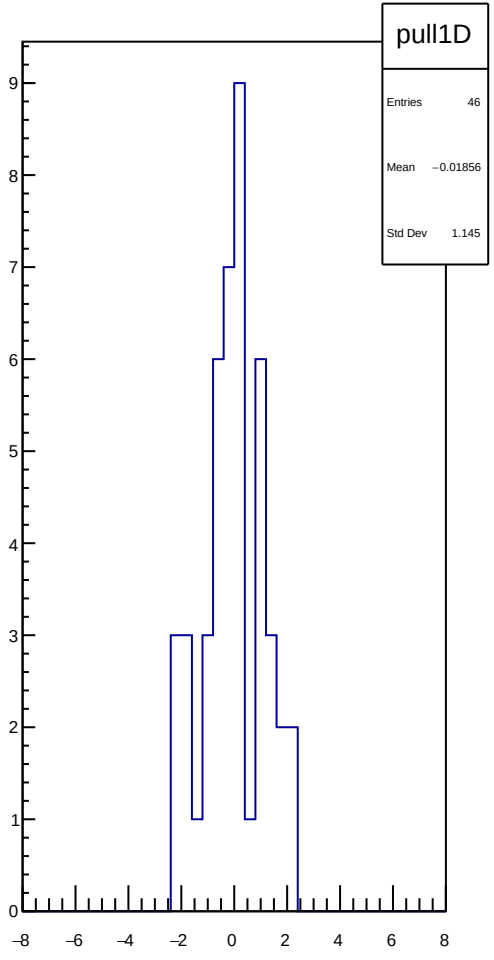

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 49.96 / 45
p0 8.448 ± 0.8416
pull
Entries 46
Mean 653.1
Std Dev 0

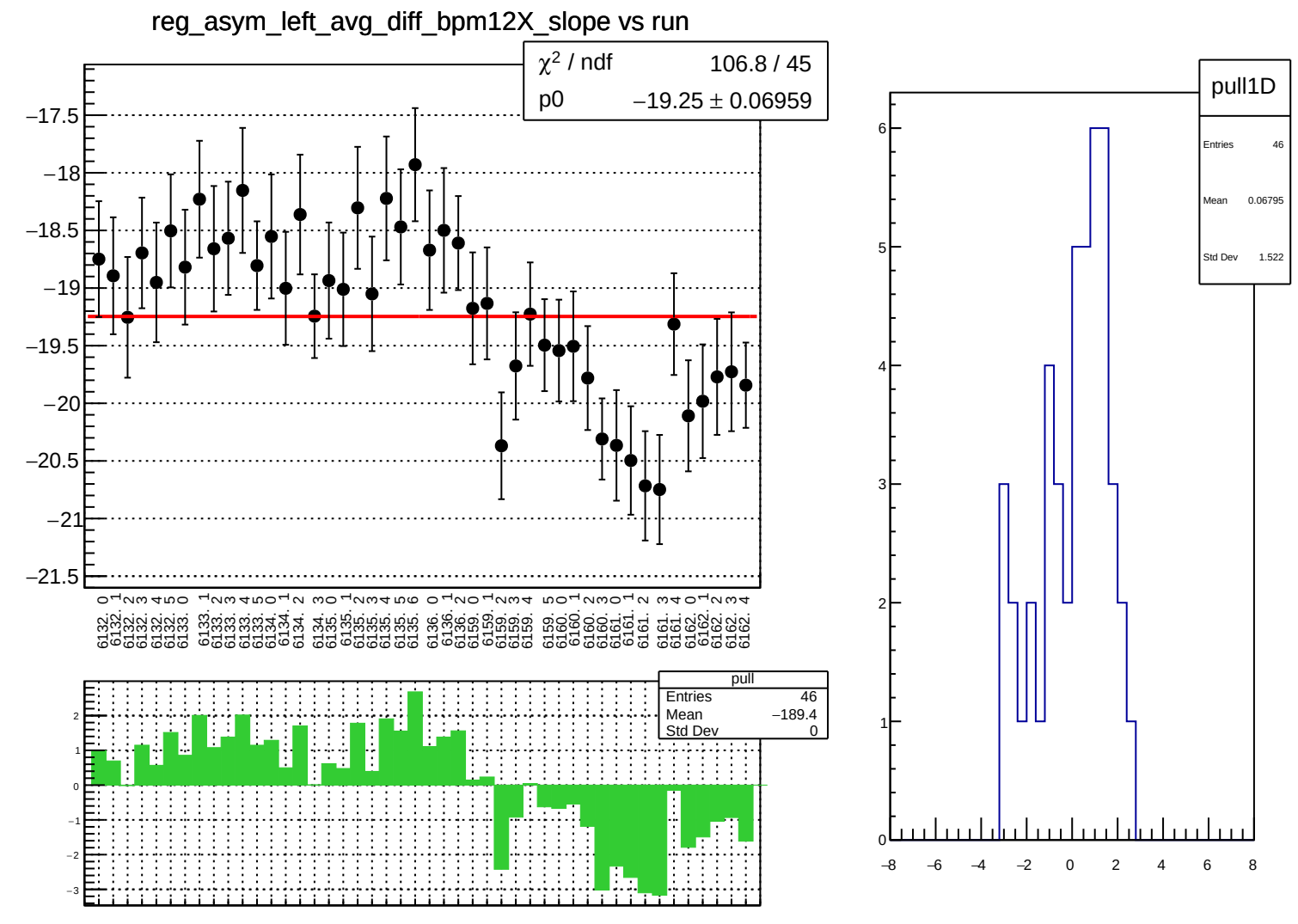

pull1D
Entries 46
Mean 0.01152
Std Dev 1.042

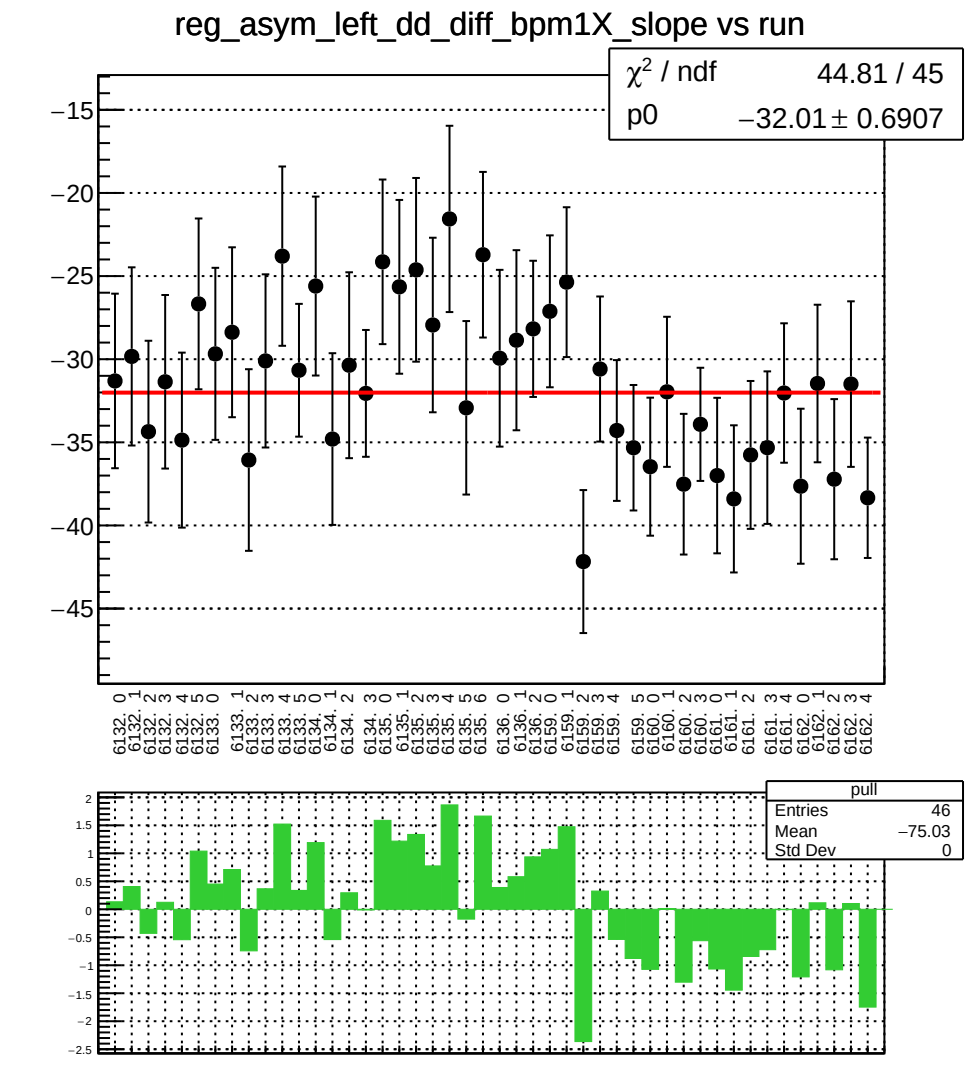

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 49.27 / 45
p0 14.05 ± 0.8466
pull
Entries 46
Mean −100.9
Std Dev 0

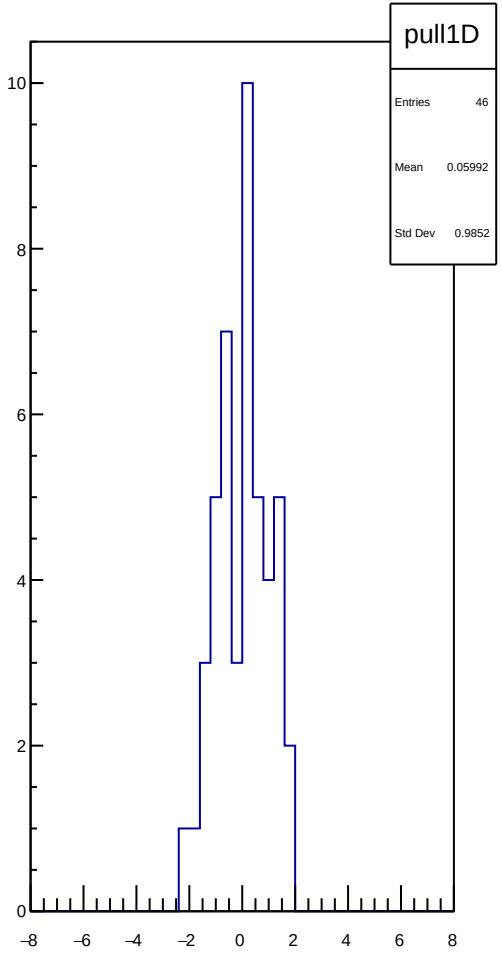

pull1D
Entries 46
Mean −0.03918
Std Dev 1.034

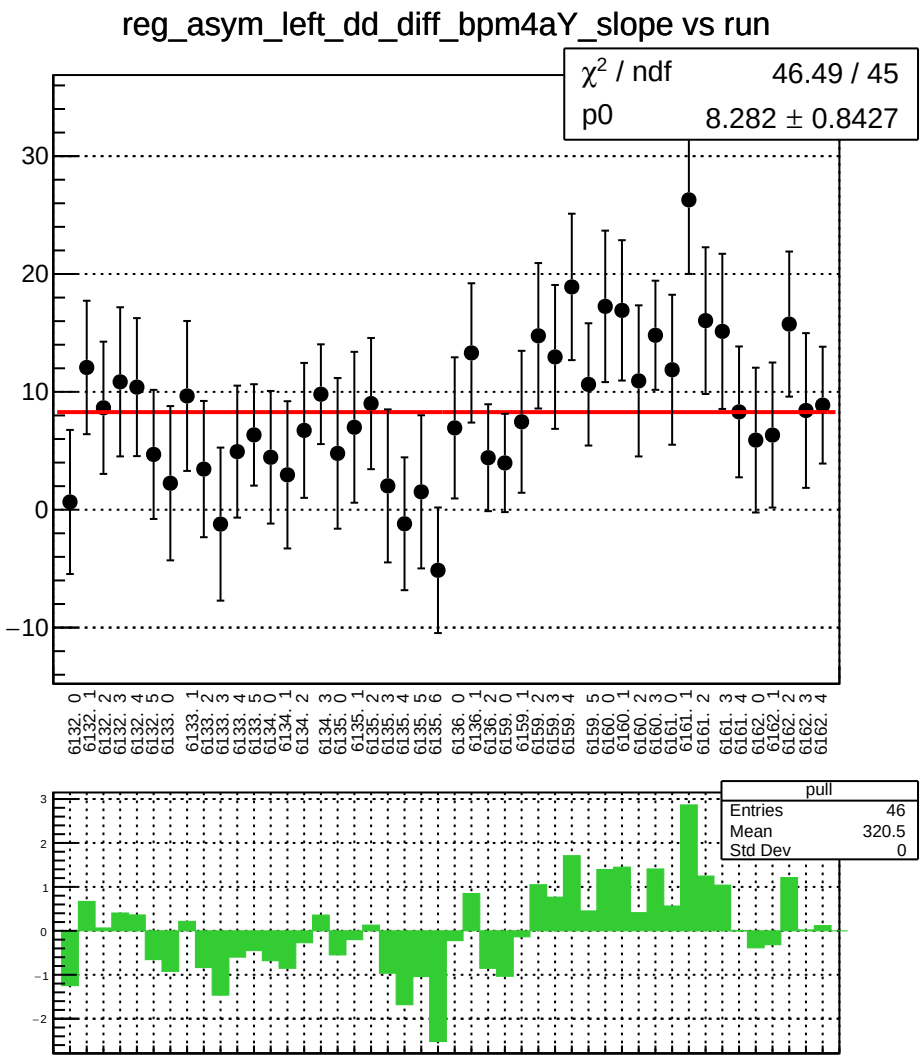

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 60.35 / 45
p0 0.08066 ± 0.9017
20
10
0
−10
−20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 482.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

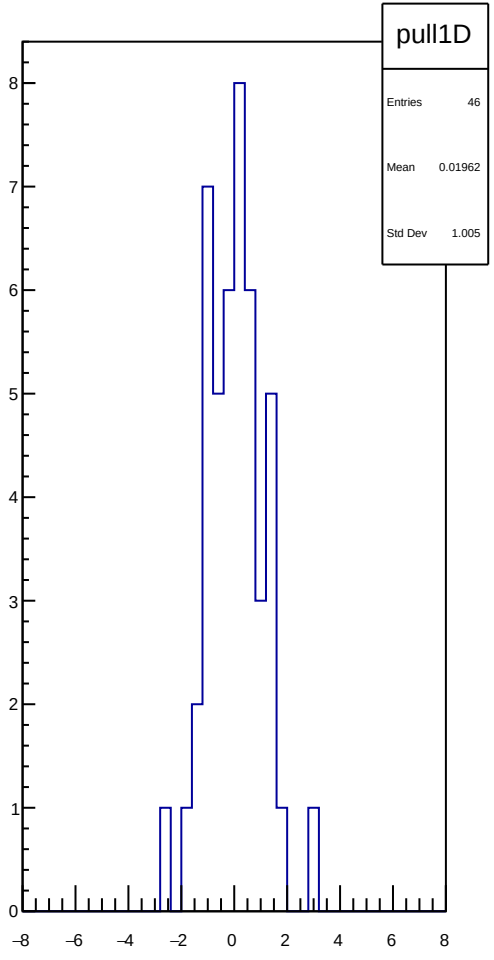

pull1D
Entries 46
Mean −0.01856
Std Dev 1.145
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

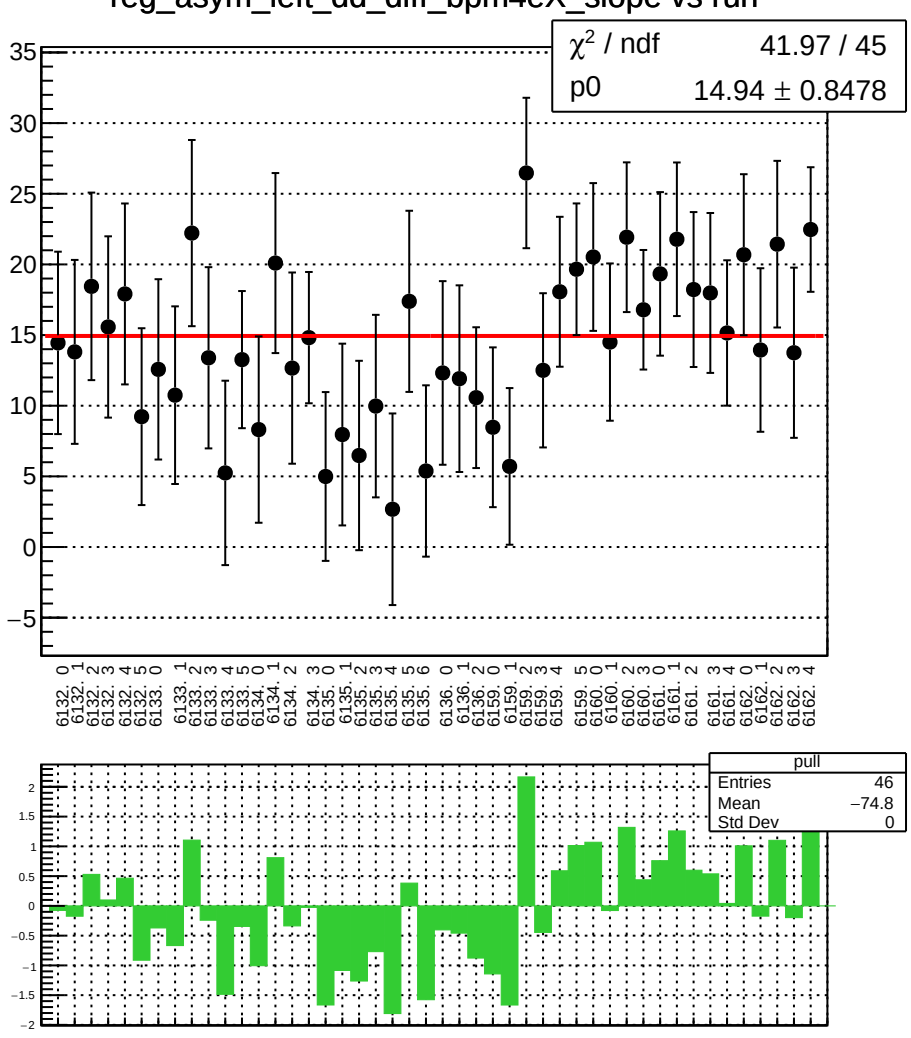

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 106.8 / 45
p0 −19.25 ± 0.06959
pull
Entries 46
Mean −189.4
Std Dev 0
pull1D
Entries 46
Mean 0.06795
Std Dev 1.522

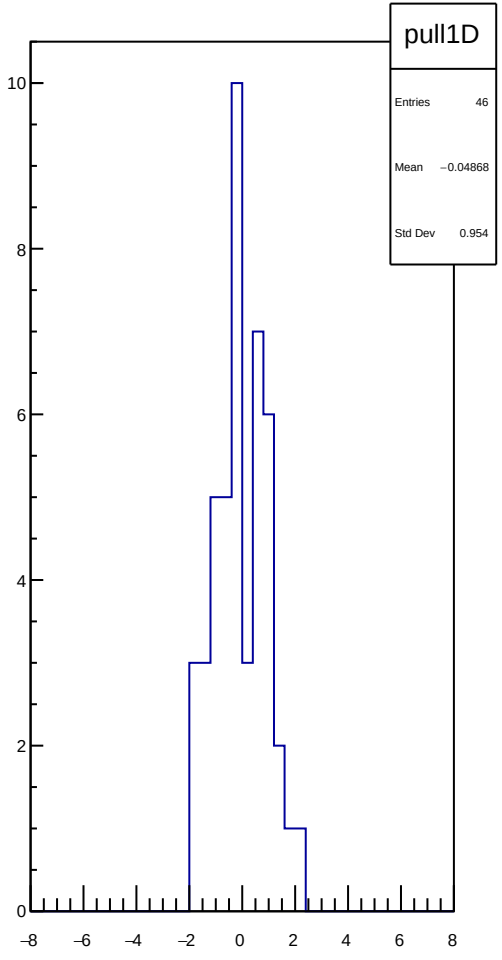

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 44.81 / 45
p0 −32.01 ± 0.6907
pull
Entries 46
Mean −75.03
Std Dev 0

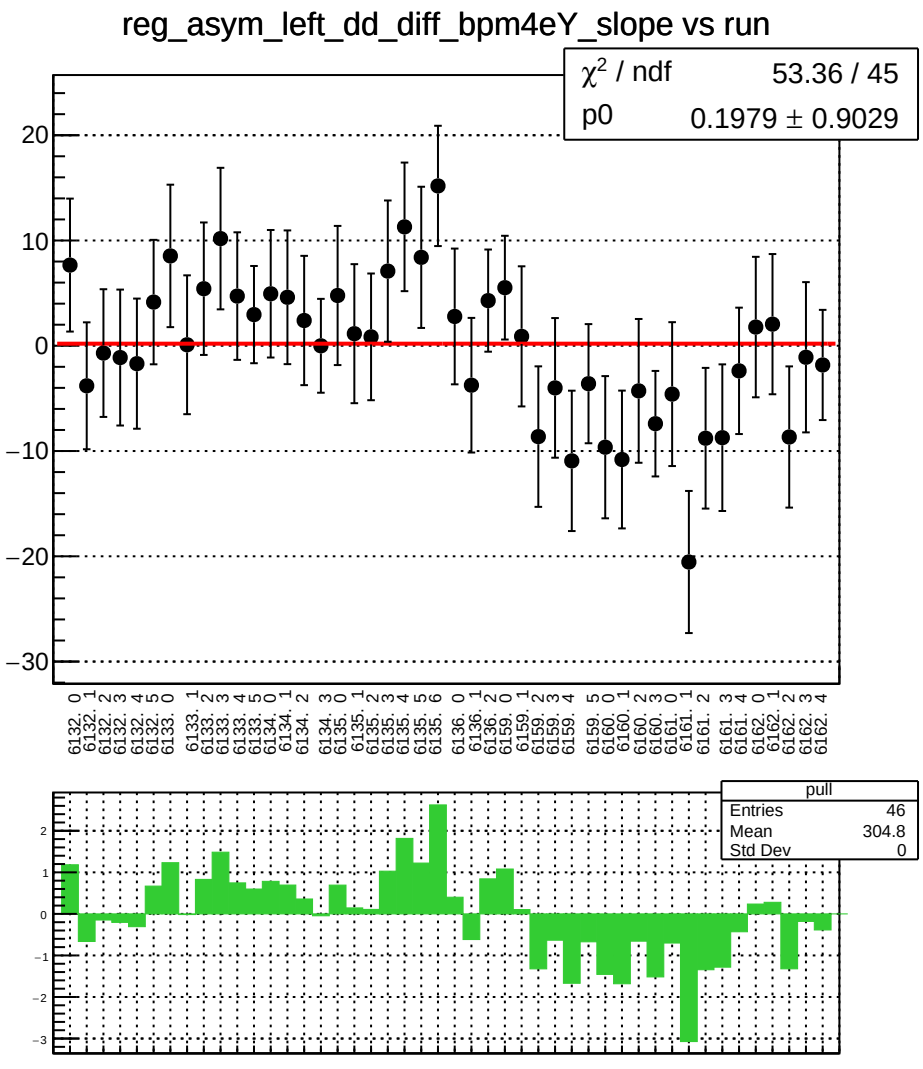

pull1D
Entries 46
Mean 0.05992
Std Dev 0.9852

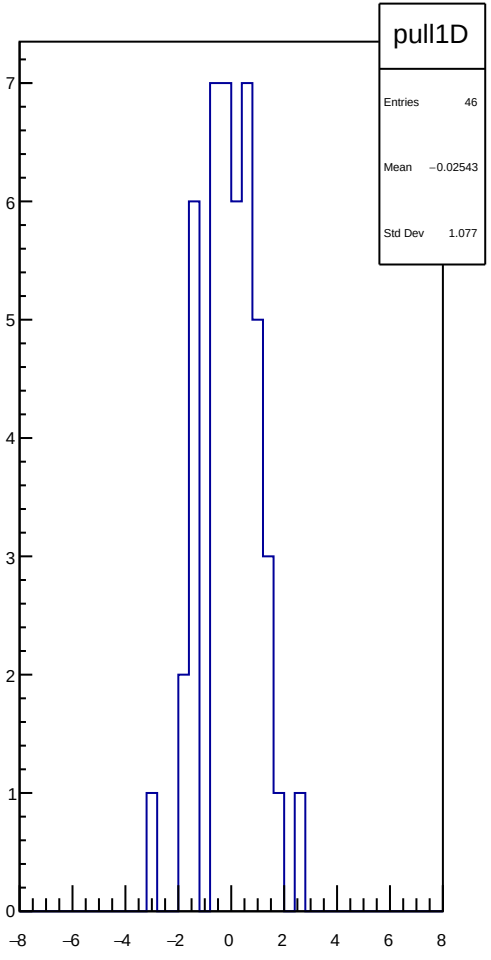

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 46.49 / 45
p0 8.282 ± 0.8427
30
20
10
0
−10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 320.5
Std Dev 0
3
2
1
0
−1
−2

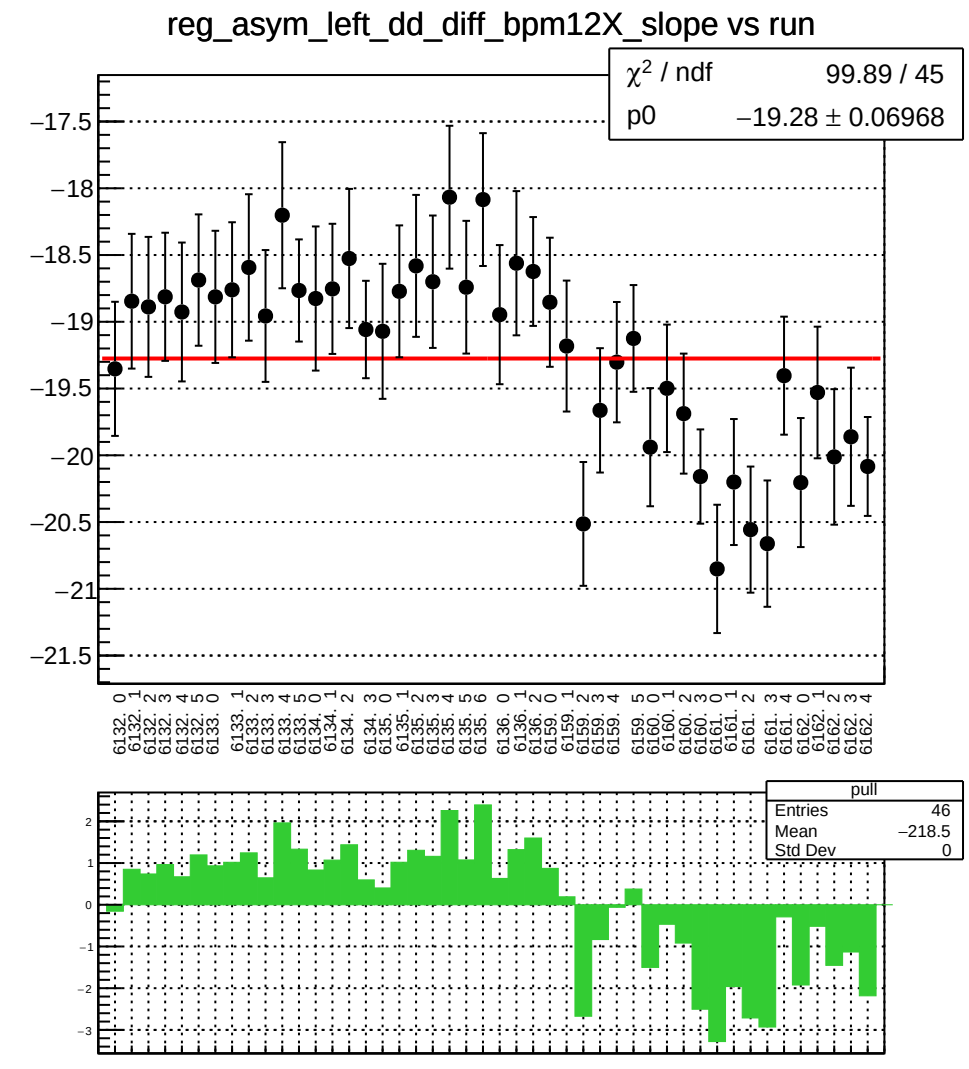

pull1D
Entries 46
Mean 0.01962
Std Dev 1.005
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

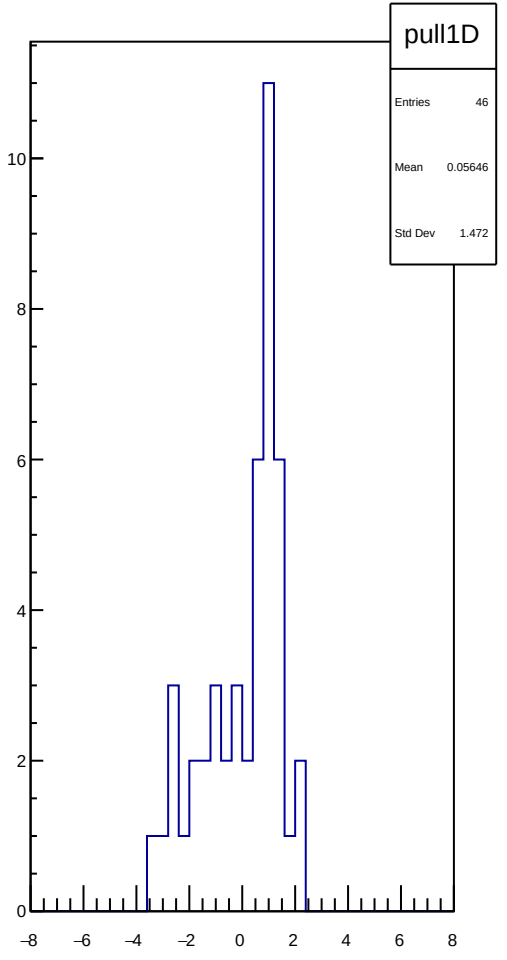

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.97 / 45
p0 14.94 ± 0.8478
pull
Entries 46
Mean −74.8
Std Dev 0

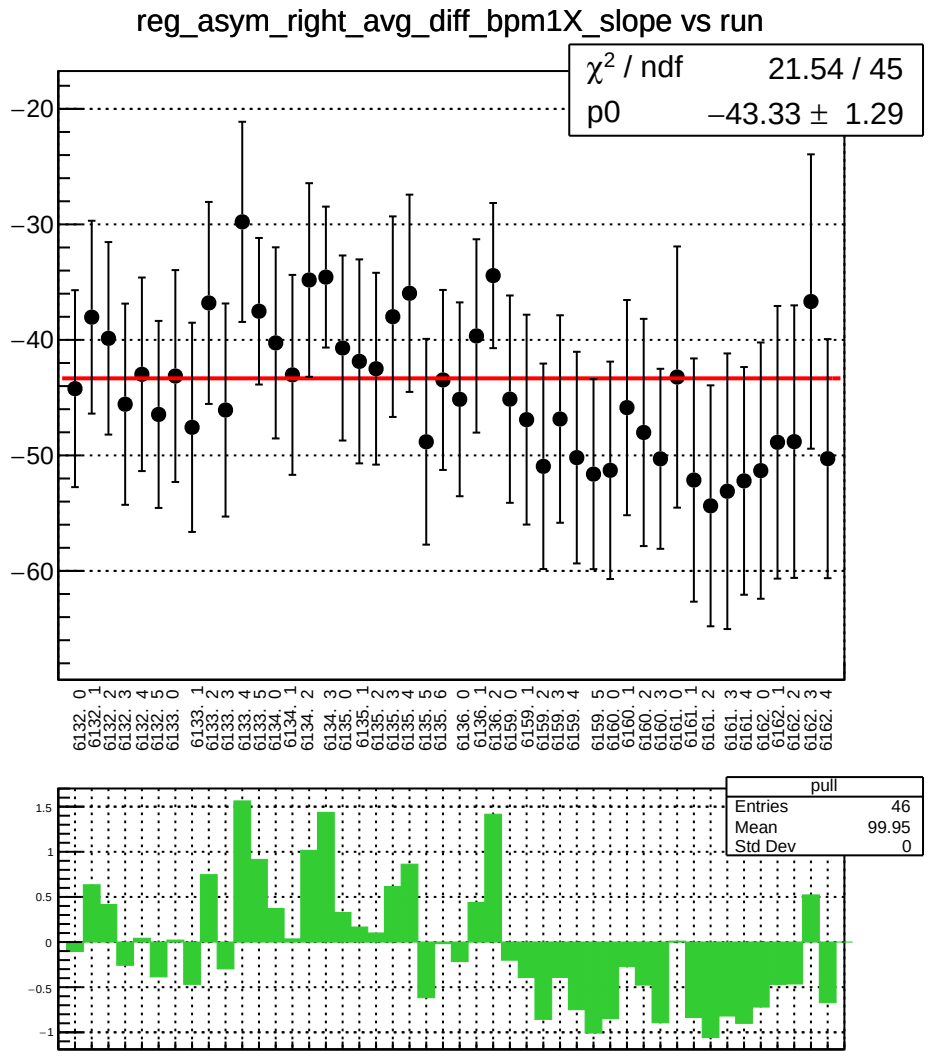

pull1D
Entries 46
Mean −0.04868
Std Dev 0.954

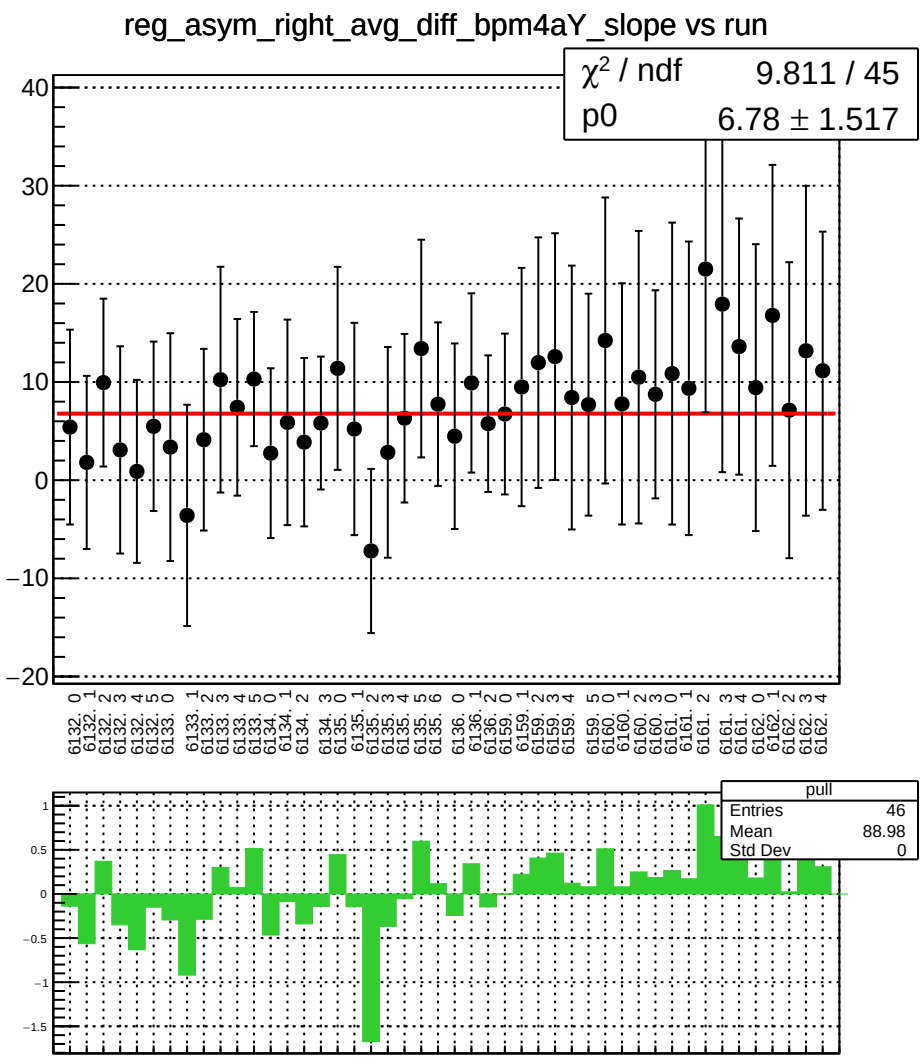

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 53.36 / 45
p0 0.1979 ± 0.9029
pull
Entries 46
Mean 304.8
Std Dev 0

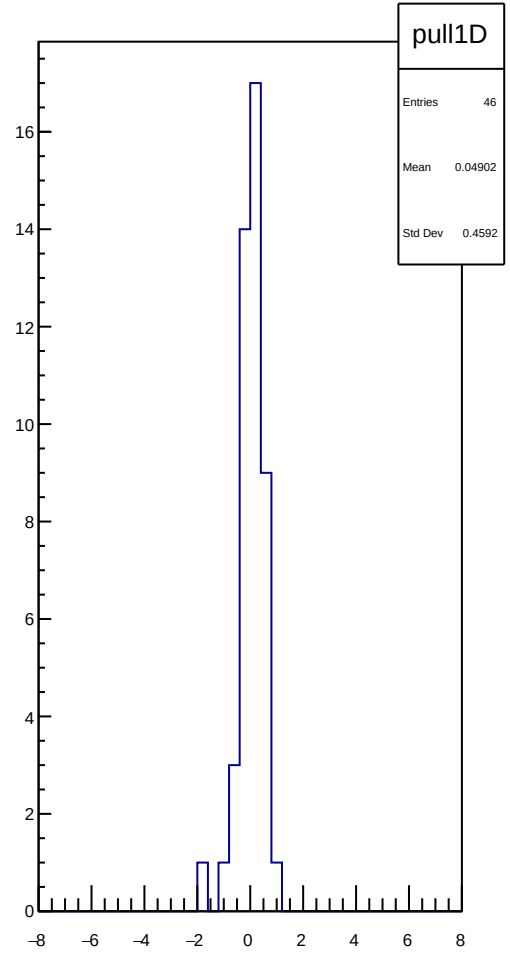

pull1D
Entries 46
Mean −0.02543
Std Dev 1.077

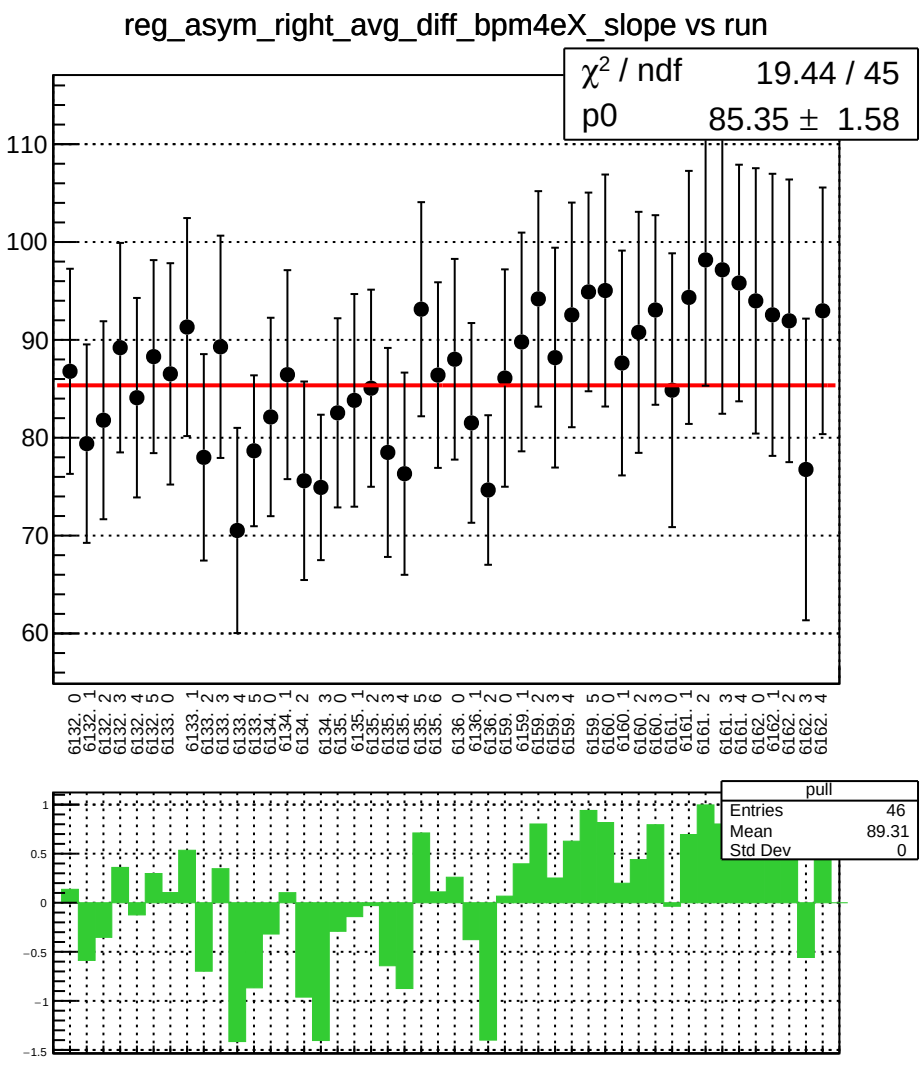

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 99.89 / 45
p0 −19.28 ± 0.06968
−17.5
−18
−18.5
−19
−19.5
−20
−20.5
−21
−21.5
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −218.5
Std Dev 0
2
1
0
−1
−2
−3

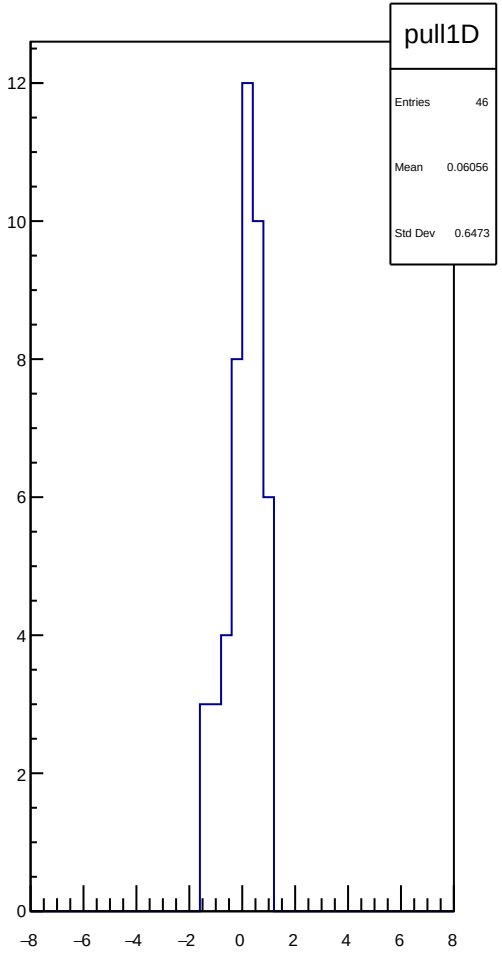

pull1D
Entries 46
Mean 0.05646
Std Dev 1.472
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

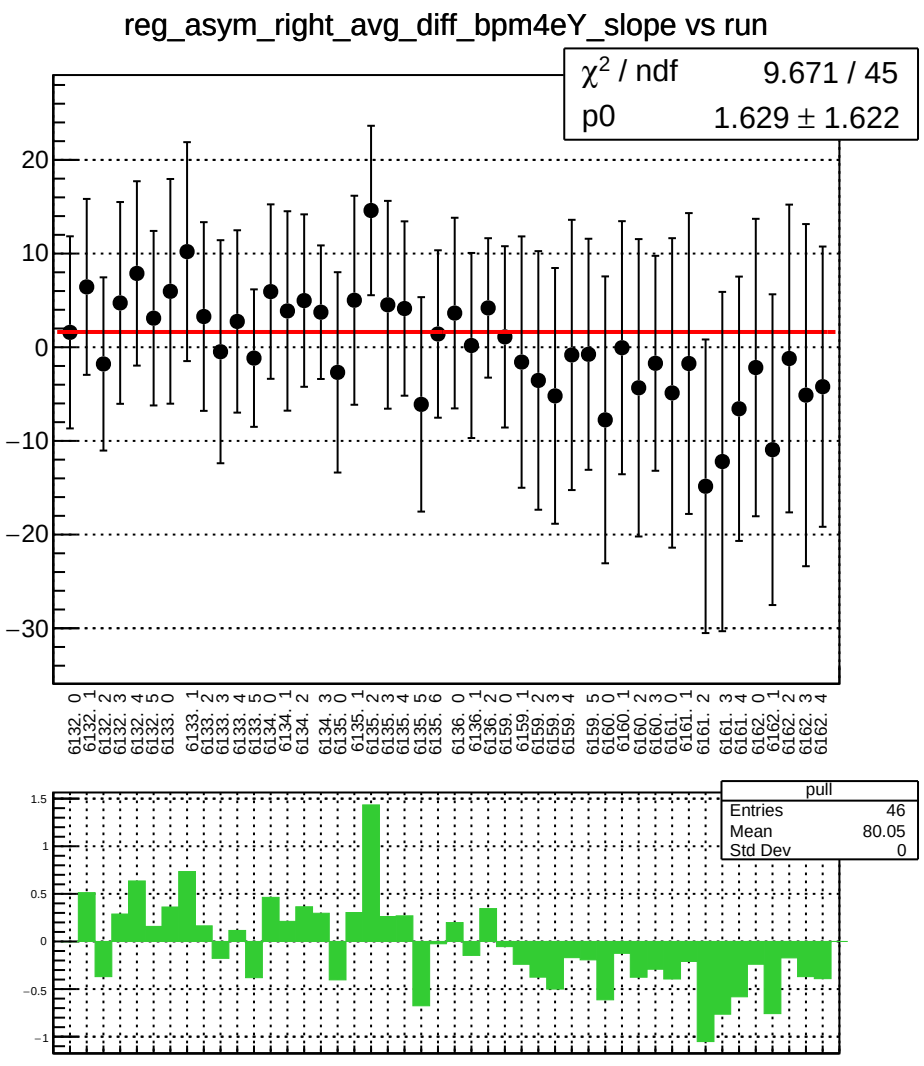

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 21.54 / 45
p0 −43.33 ± 1.29
−20
−30
−40
−50
−60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 99.95
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.0594
Std Dev 0.6816
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

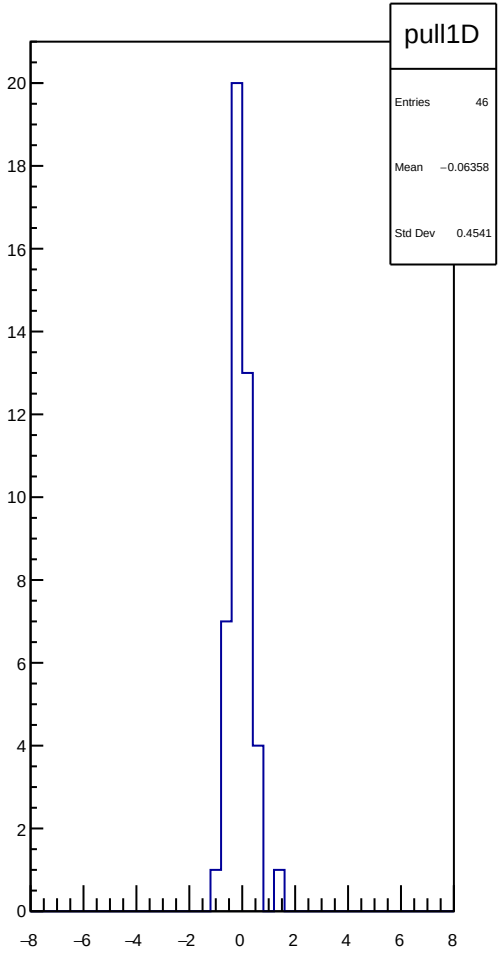

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.811 / 45
p0 6.78 ± 1.517
pull
Entries 46
Mean 88.98
Std Dev 0

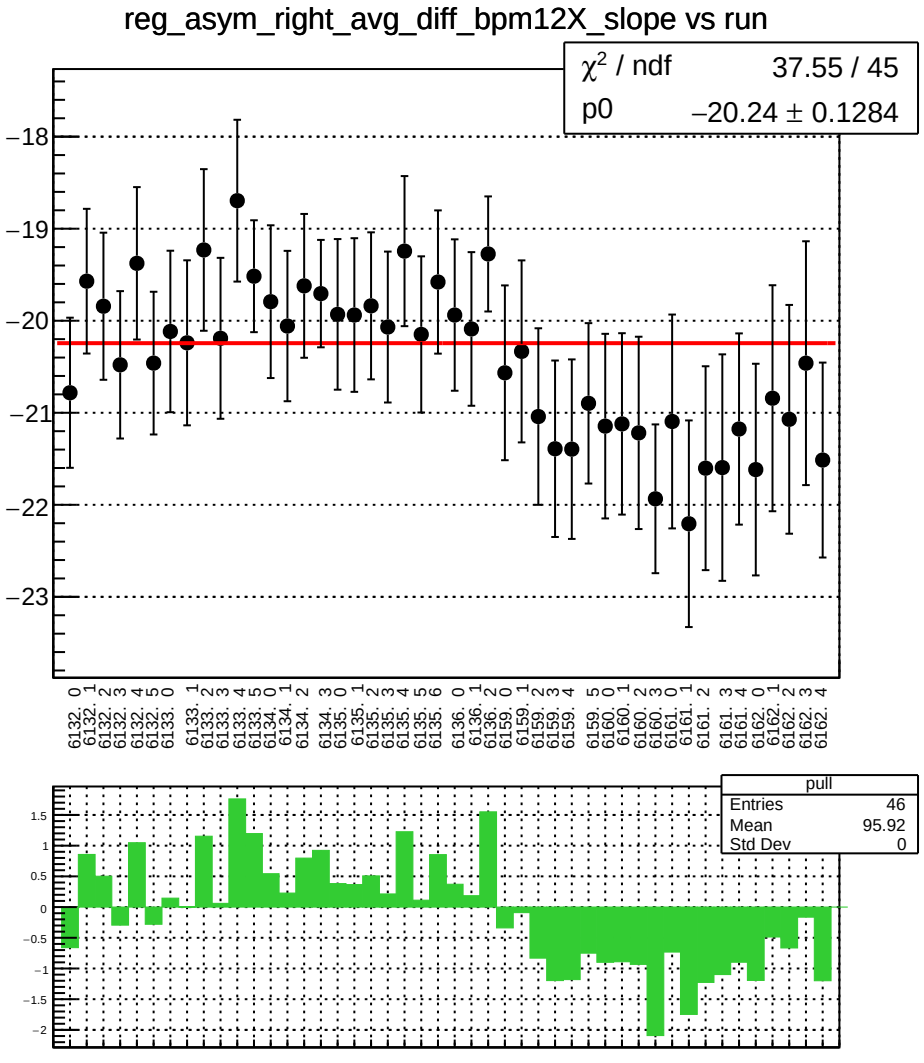

pull1D
Entries 46
Mean 0.04902
Std Dev 0.4592

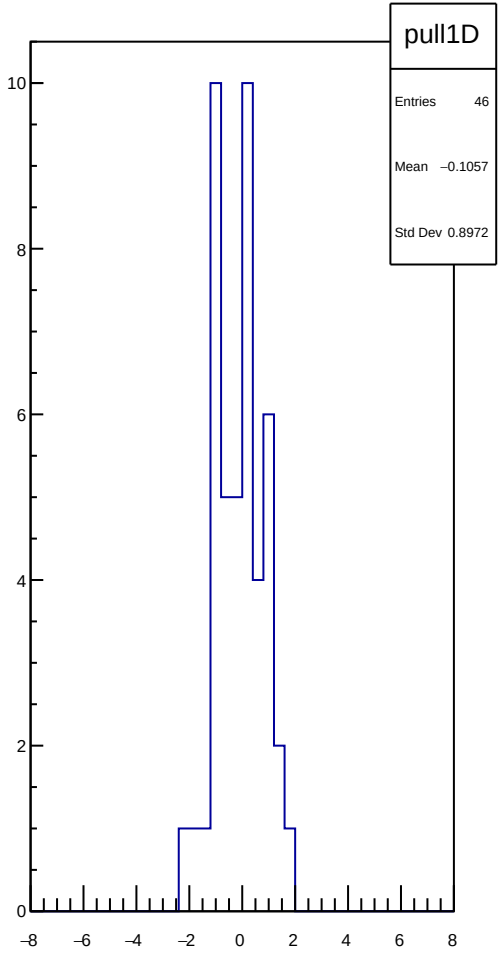

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.44 / 45
p0 85.35 ± 1.58
110
100
90
80
70
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 89.31
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

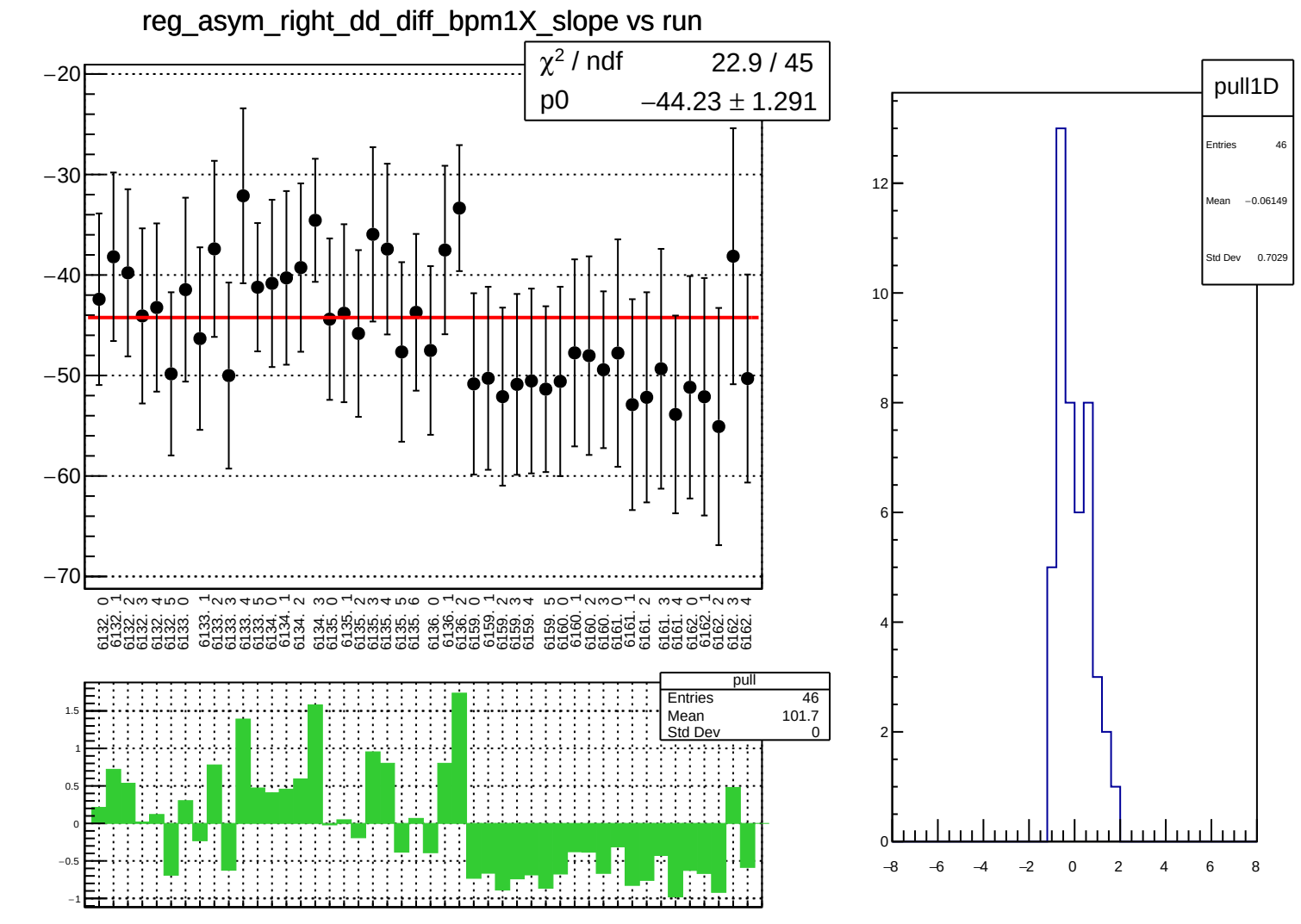

pull1D
Entries 46
Mean 0.06056
Std Dev 0.6473
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

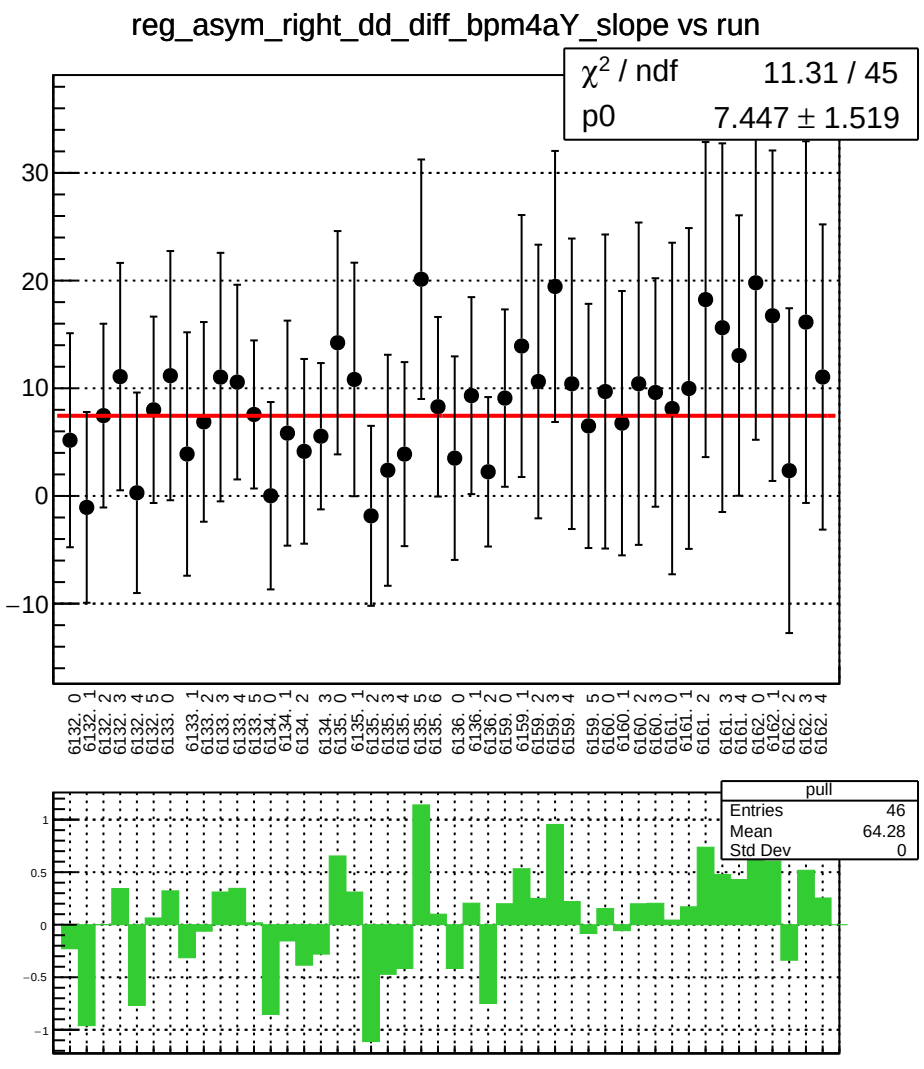

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.671 / 45
p0 1.629 ± 1.622
20
10
0
−10
−20
−30
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 80.05
Std Dev 0
1.5
1
0.5
0
−0.5
−1

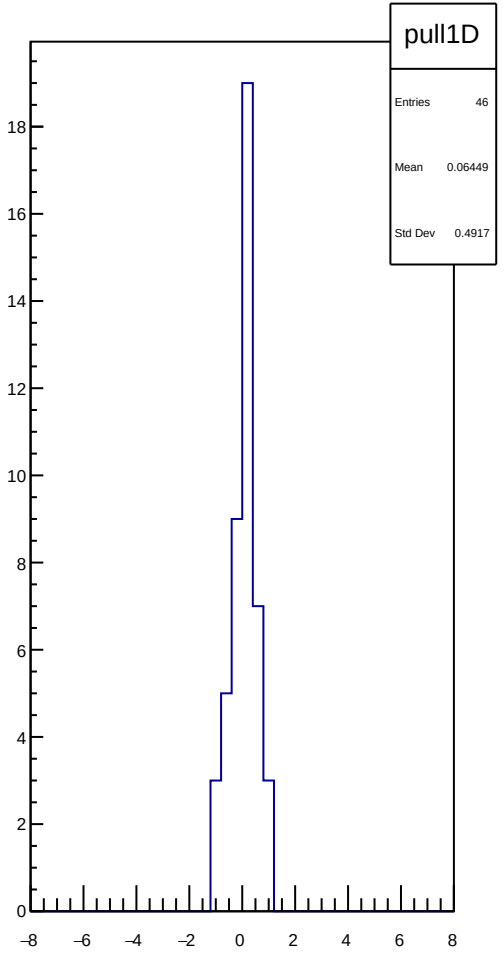

pull1D
Entries 46
Mean −0.06358
Std Dev 0.4541
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

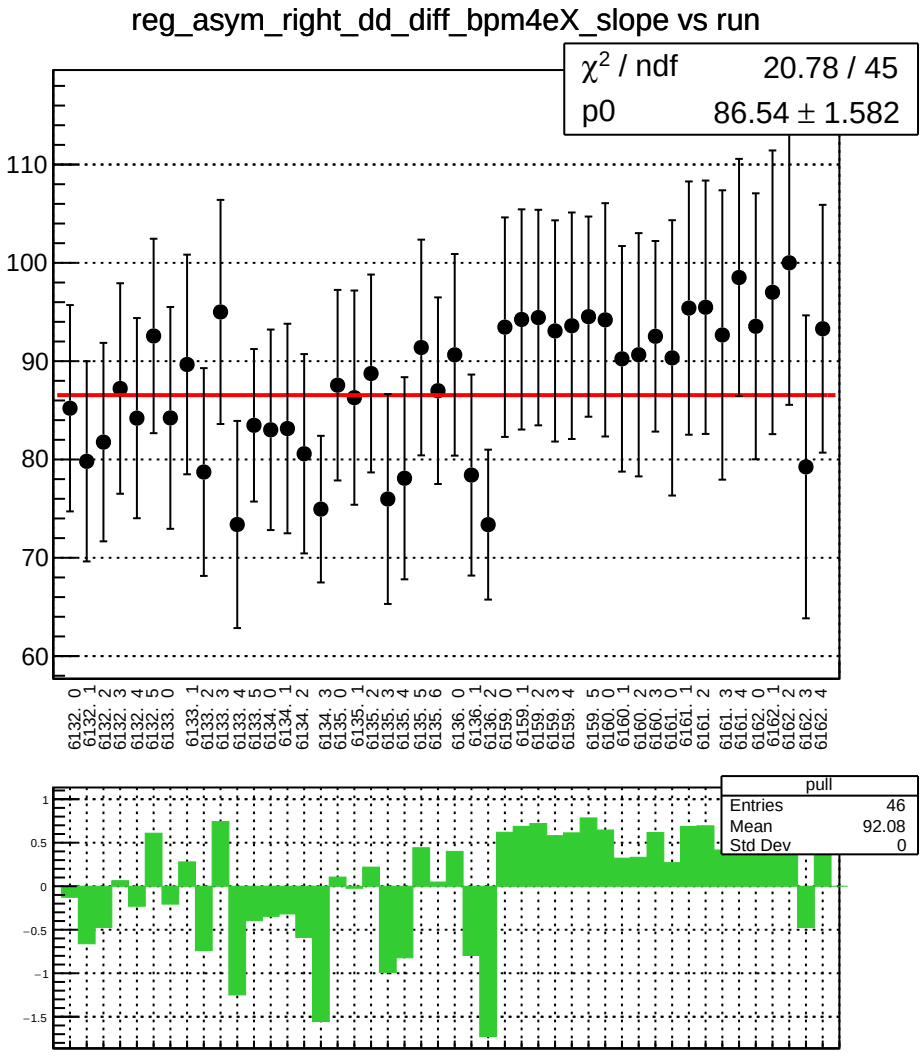

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 37.55 / 45
p0 −20.24 ± 0.1284
pull
Entries 46
Mean 95.92
Std Dev 0

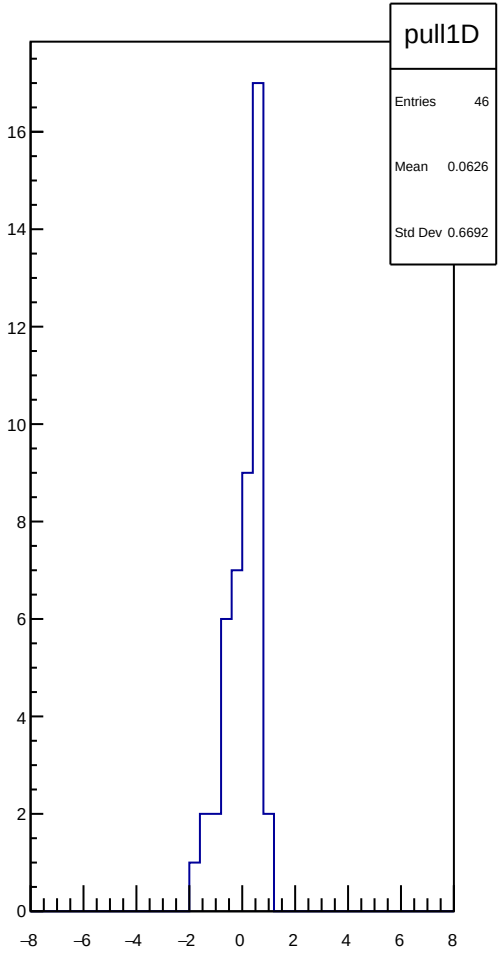

pull1D
Entries 46
Mean −0.1057
Std Dev 0.8972

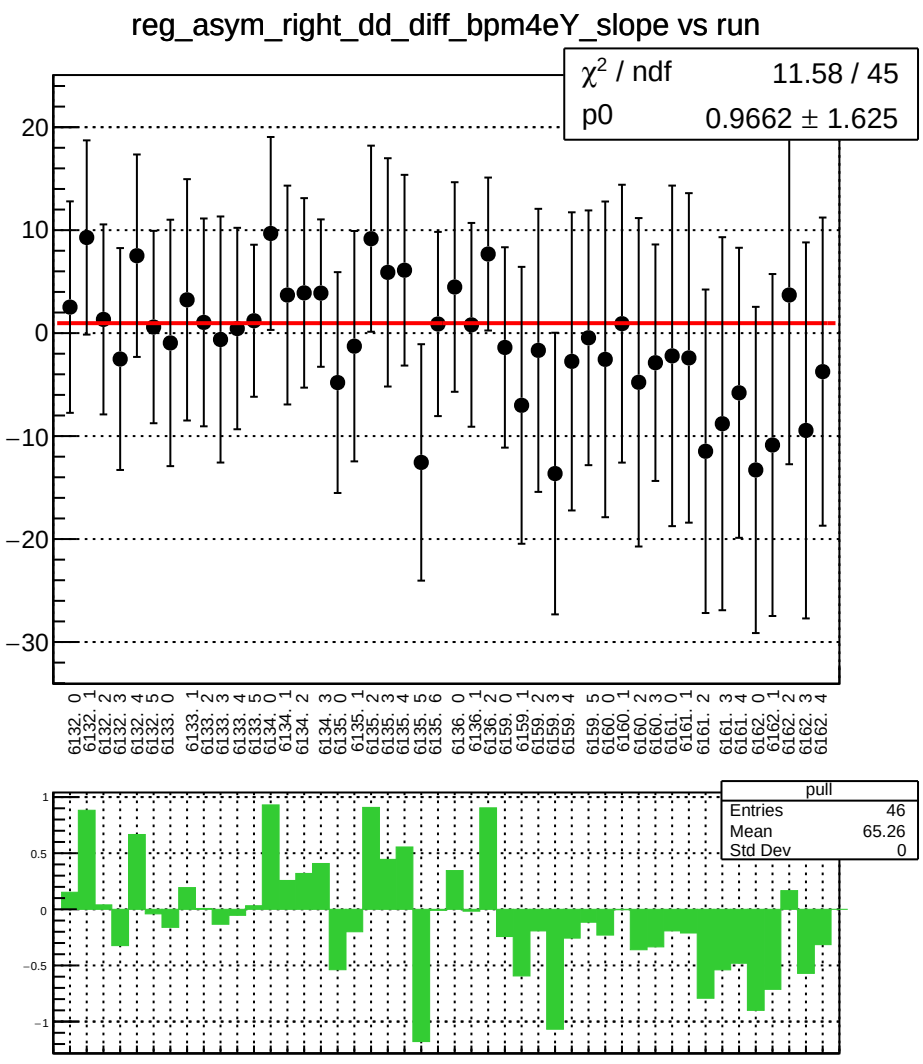

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 22.9 / 45
p0 −44.23 ± 1.291
pull
Entries 46
Mean 101.7
Std Dev 0
pull1D
Entries 46
Mean −0.06149
Std Dev 0.7029

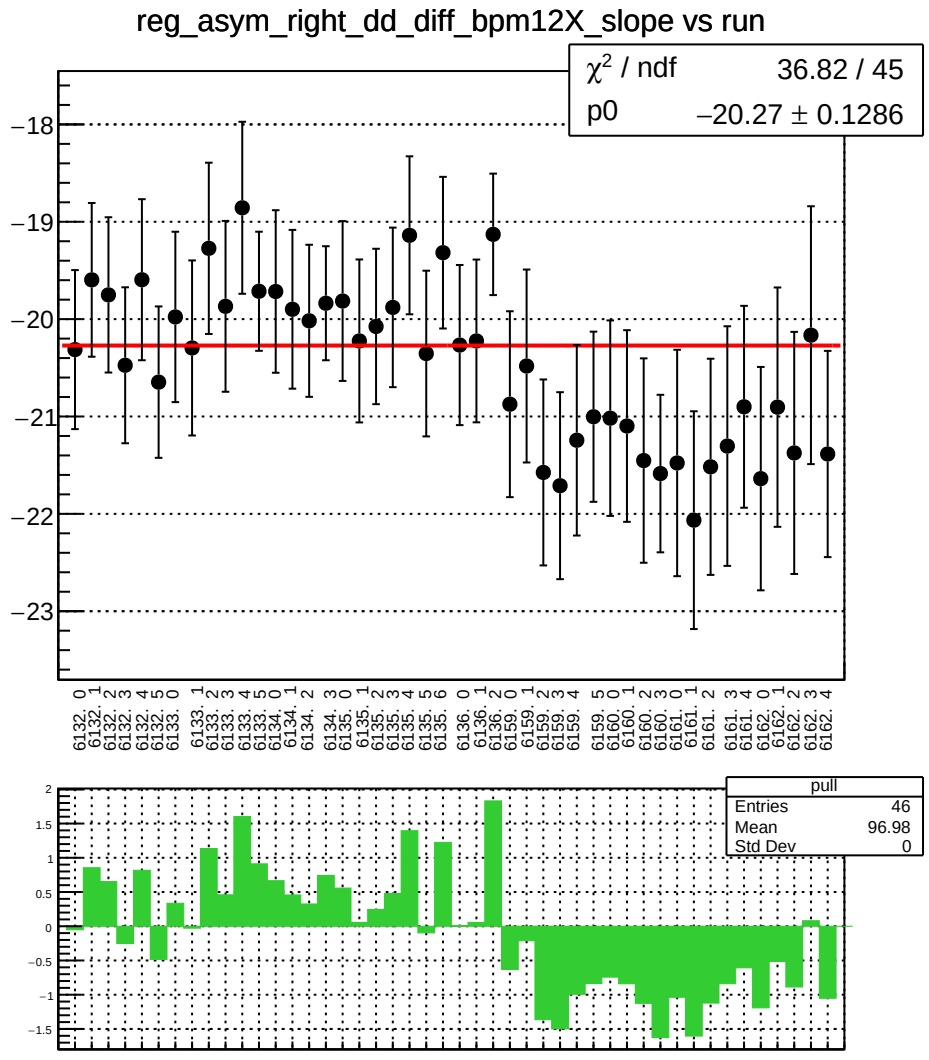

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.31 / 45
p0 7.447 ± 1.519
pull
Entries 46
Mean 64.28
Std Dev 0

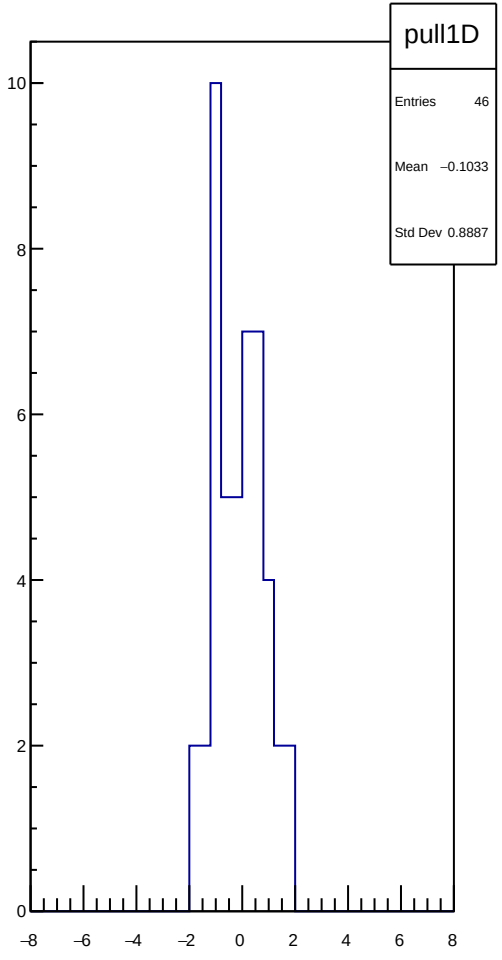

pull1D
Entries 46
Mean 0.06449
Std Dev 0.4917

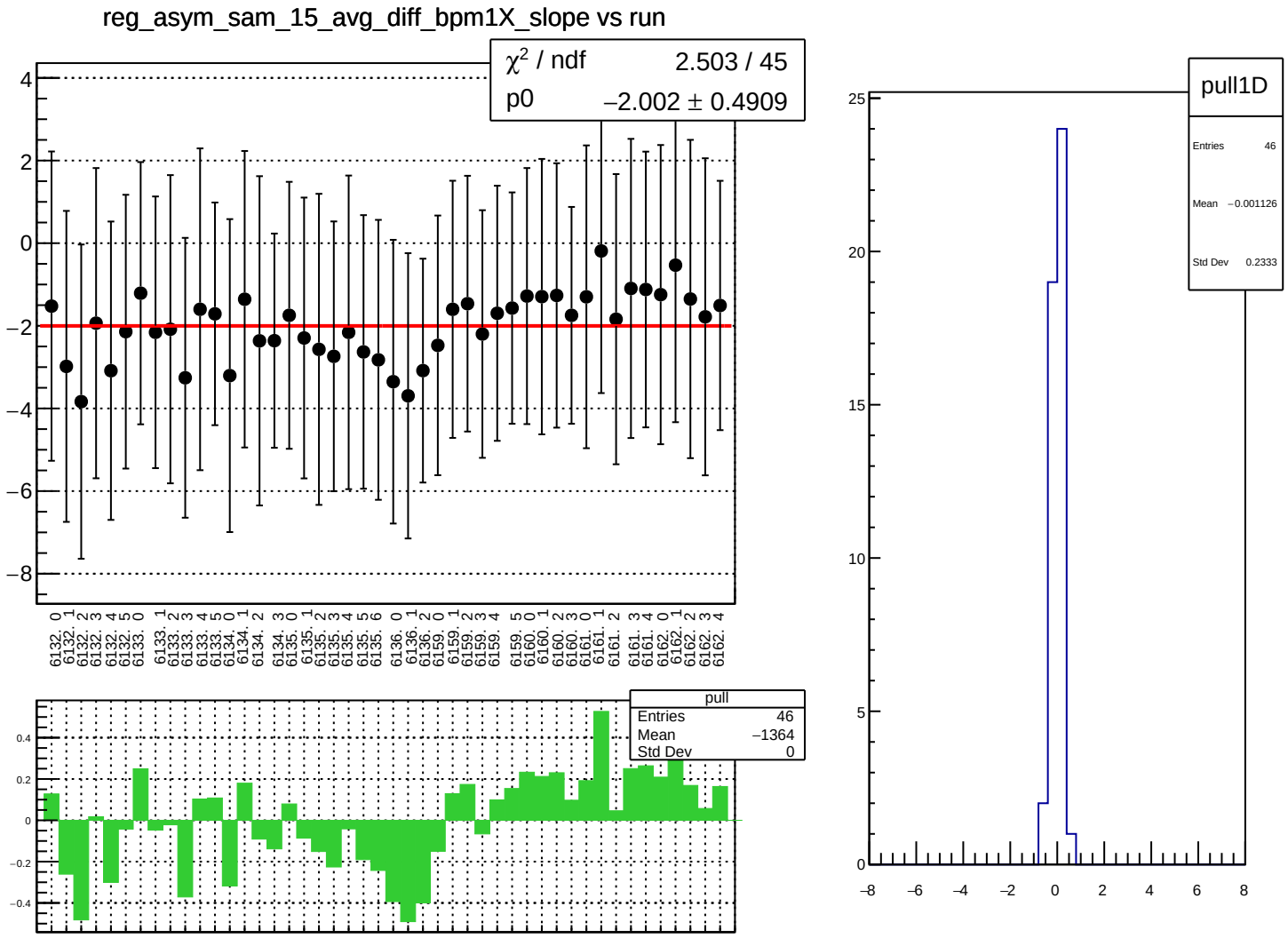

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.78 / 45
p0 86.54 ± 1.582
110
100
90
80
70
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 92.08
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

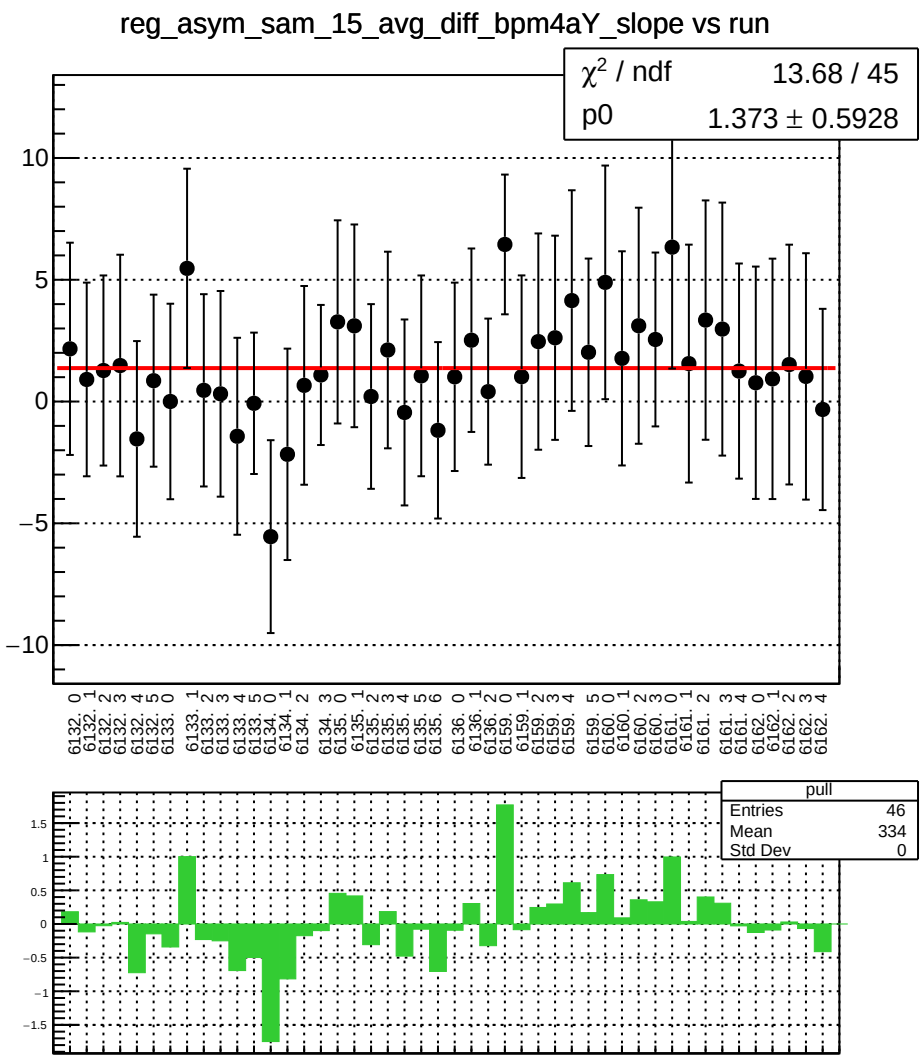

pull1D
Entries 46
Mean 0.0626
Std Dev 0.6692
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

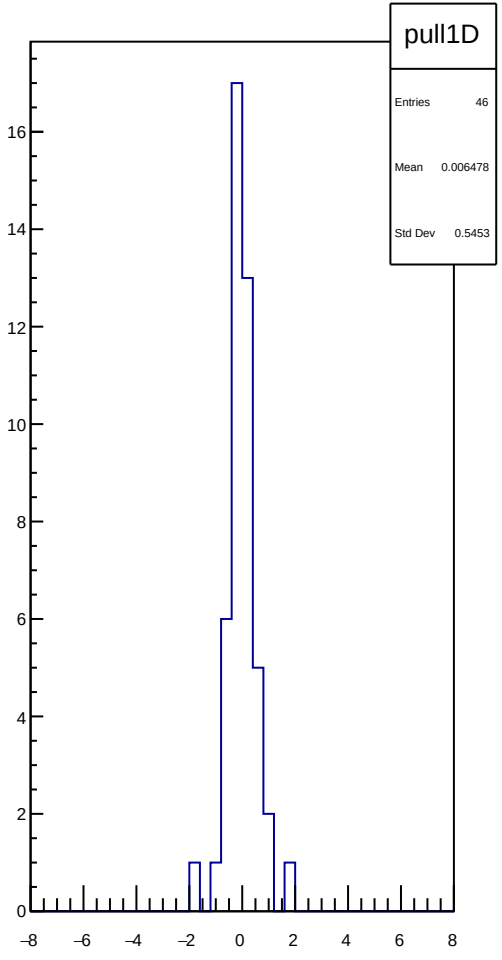

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.58 / 45
p0 0.9662 ± 1.625
20
10
0
−10
−20
−30
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 65.26
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.07705
Std Dev 0.4958
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

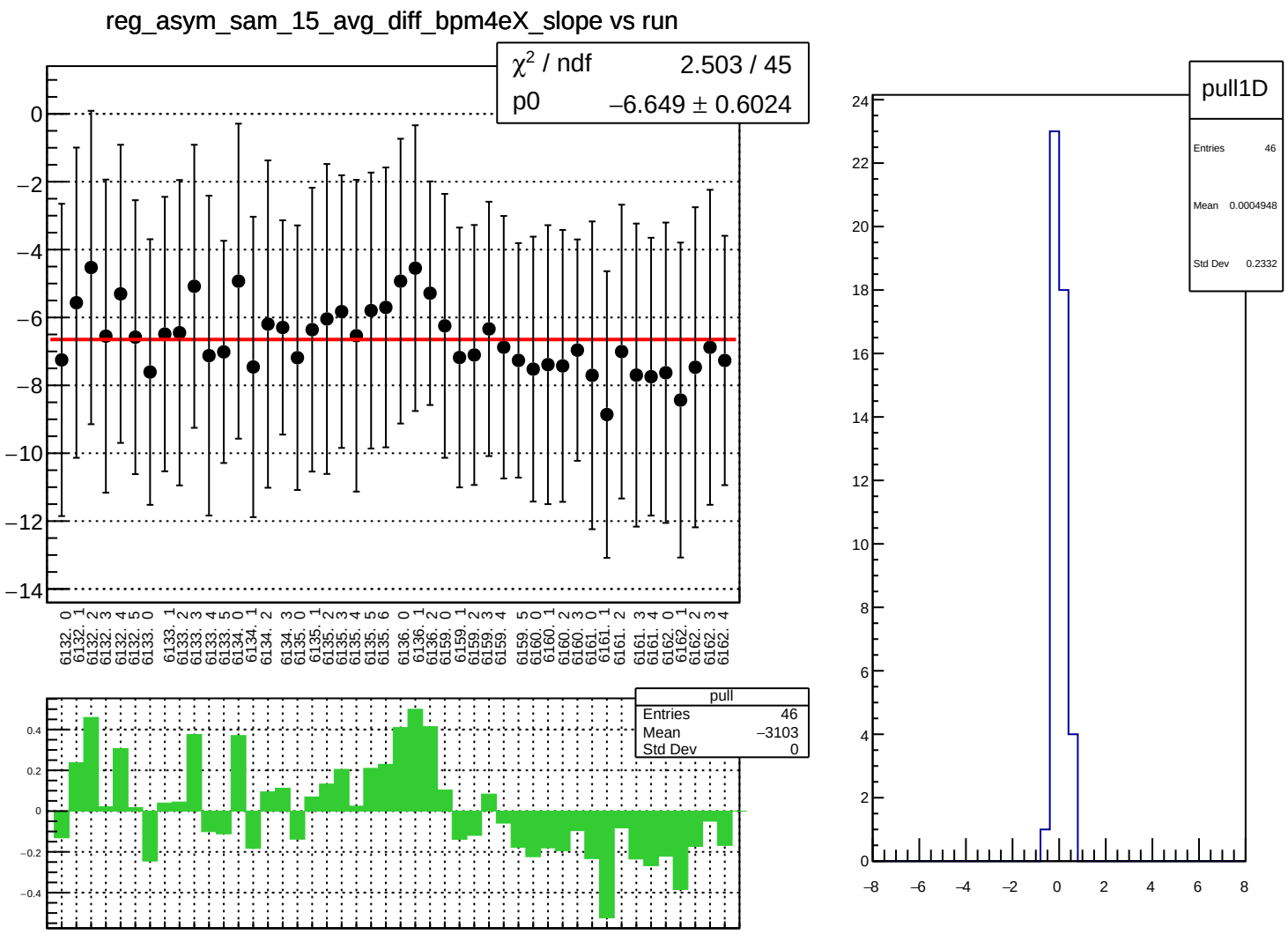

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 36.82 / 45
p0 −20.27 ± 0.1286
−18
−19
−20
−21
−22
−23
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 96.98
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

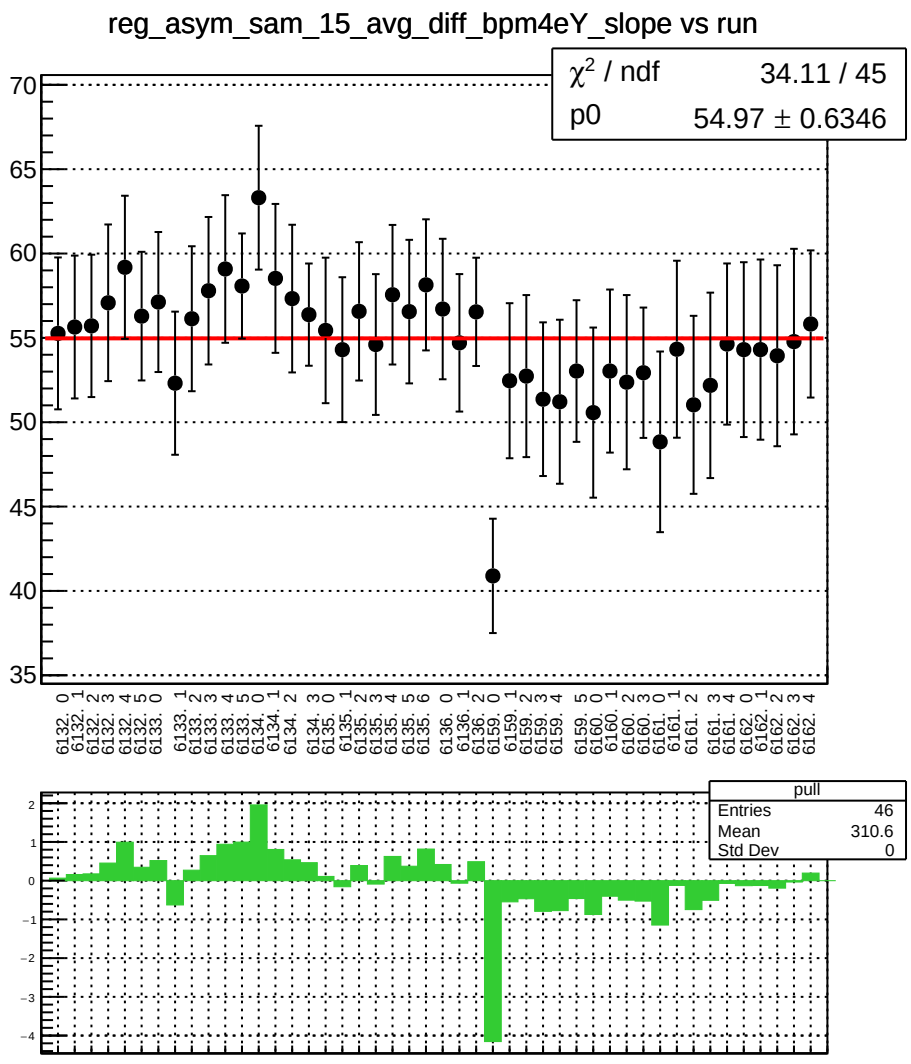

pull1D
Entries 46
Mean −0.1033
Std Dev 0.8887
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

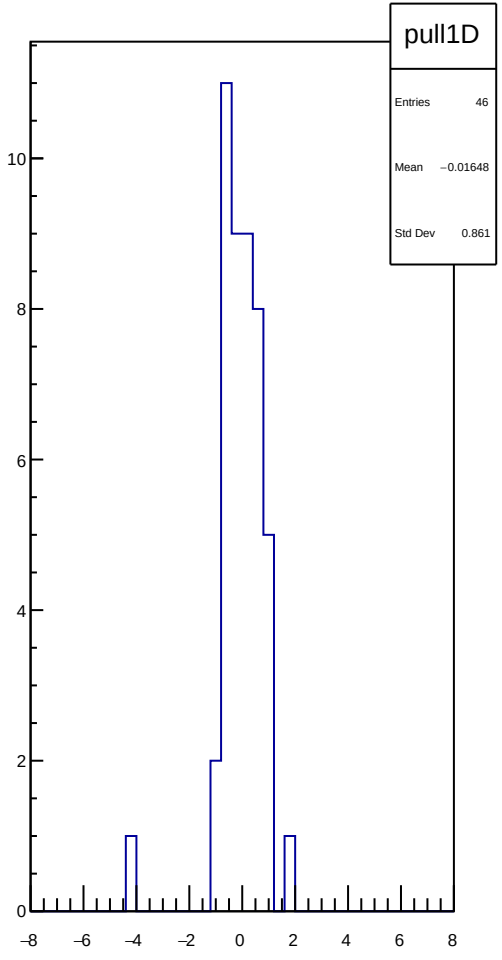

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 2.503 / 45
p0 −2.002 ± 0.4909
pull
Entries 46
Mean −1364
Std Dev 0
pull1D
Entries 46
Mean −0.001126
Std Dev 0.2333

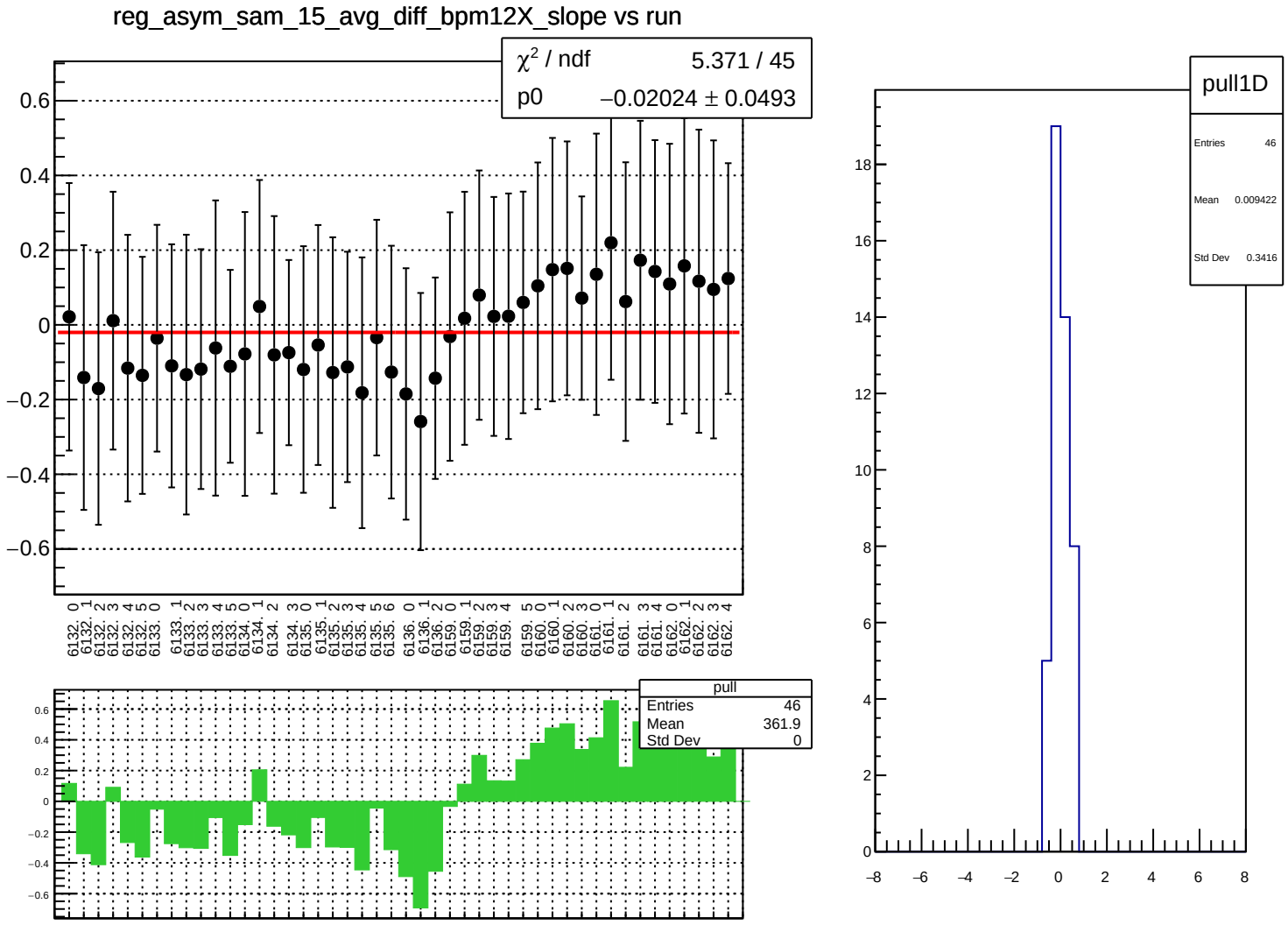

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.68 / 45
p0 1.373 ± 0.5928
pull
Entries 46
Mean 334
Std Dev 0

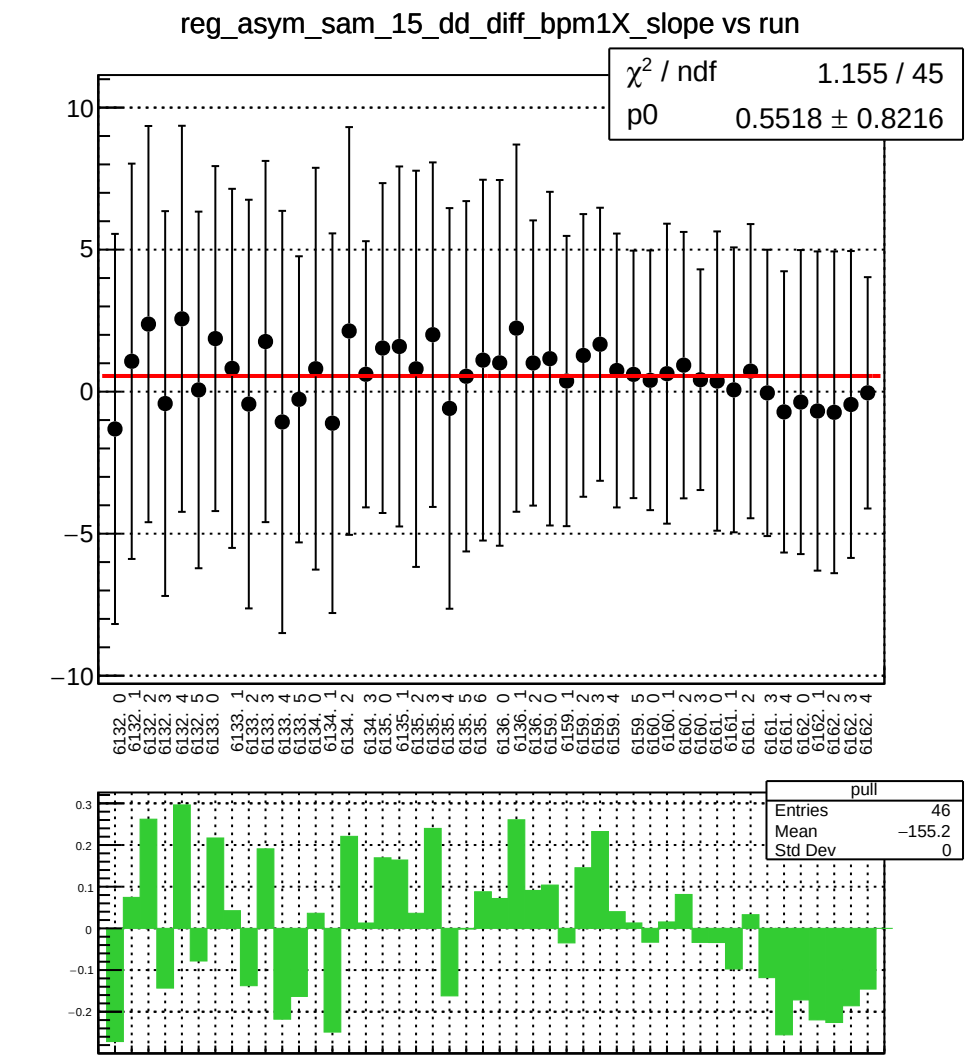

pull1D
Entries 46
Mean 0.006478
Std Dev 0.5453

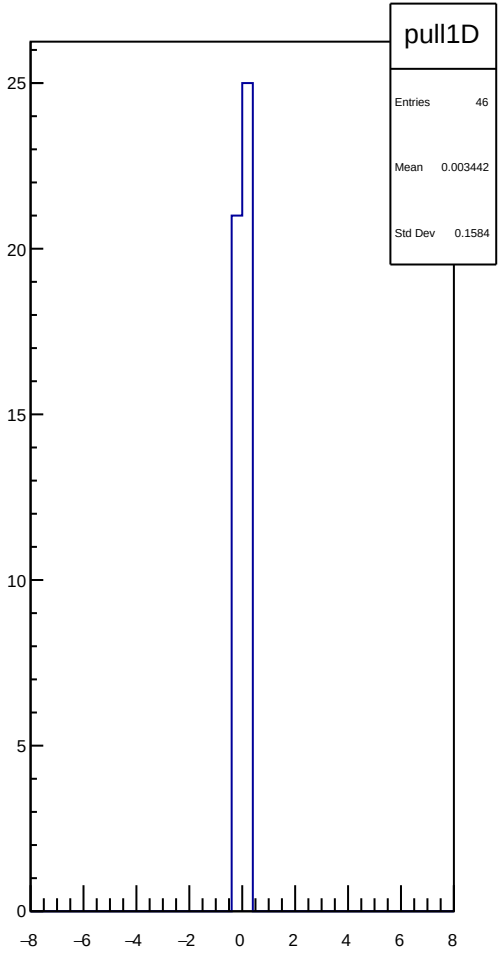

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.503 / 45
p0 −6.649 ± 0.6024
pull
Entries 46
Mean −3103
Std Dev 0
pull1D
Entries 46
Mean 0.0004948
Std Dev 0.2332

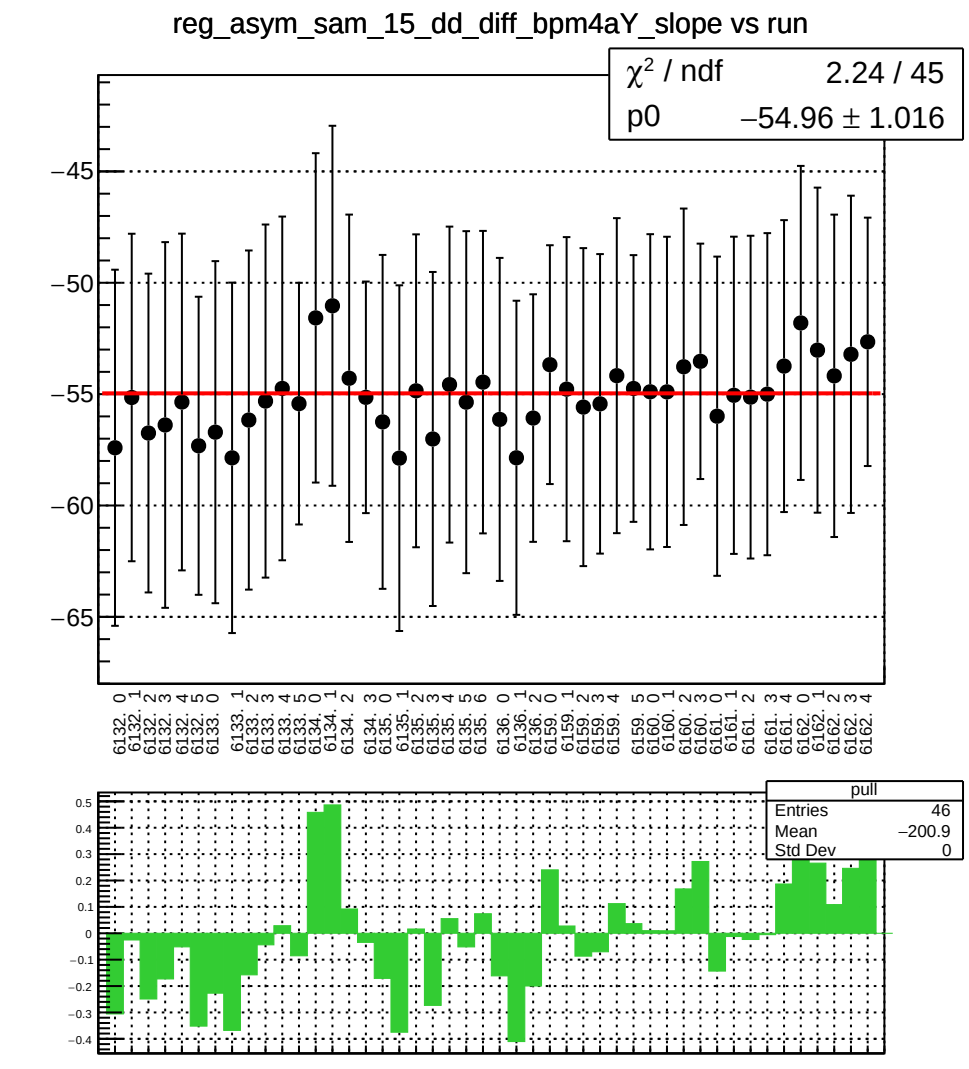

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 34.11 / 45
p0 54.97 ± 0.6346
pull
Entries 46
Mean 310.6
Std Dev 0

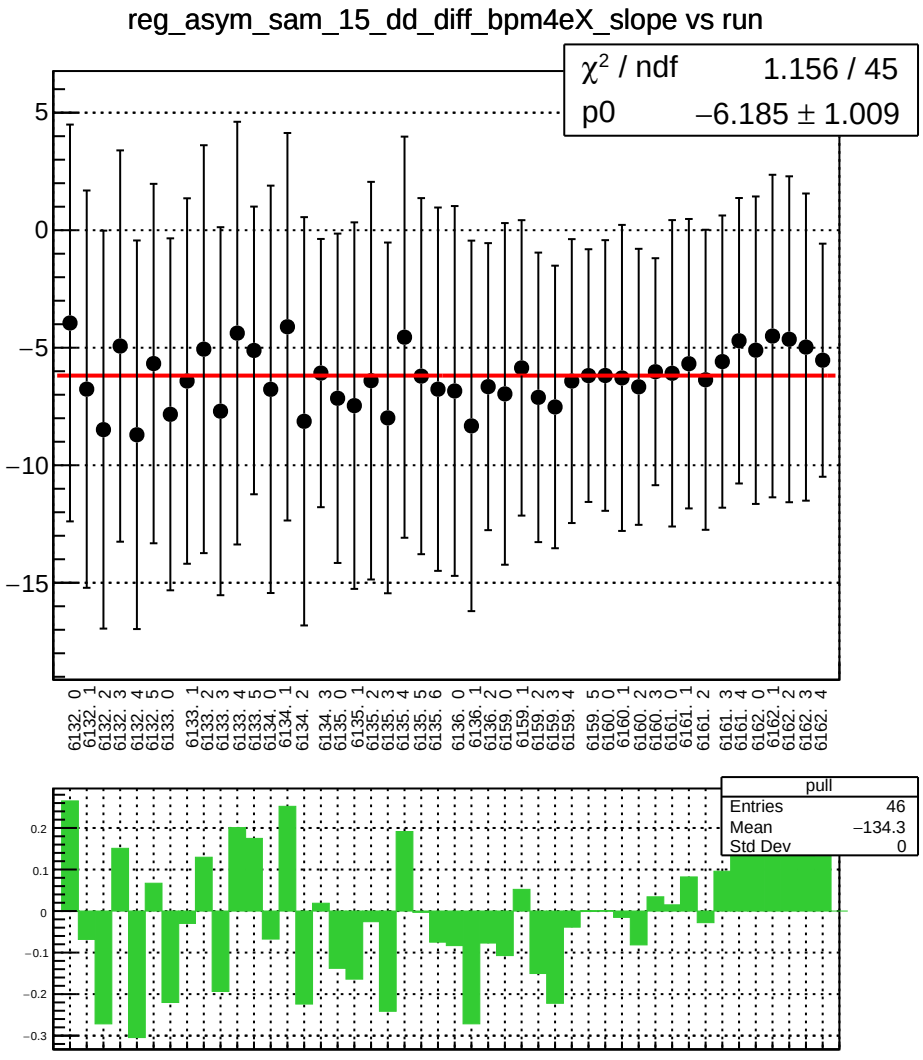

pull1D
Entries 46
Mean −0.01648
Std Dev 0.861

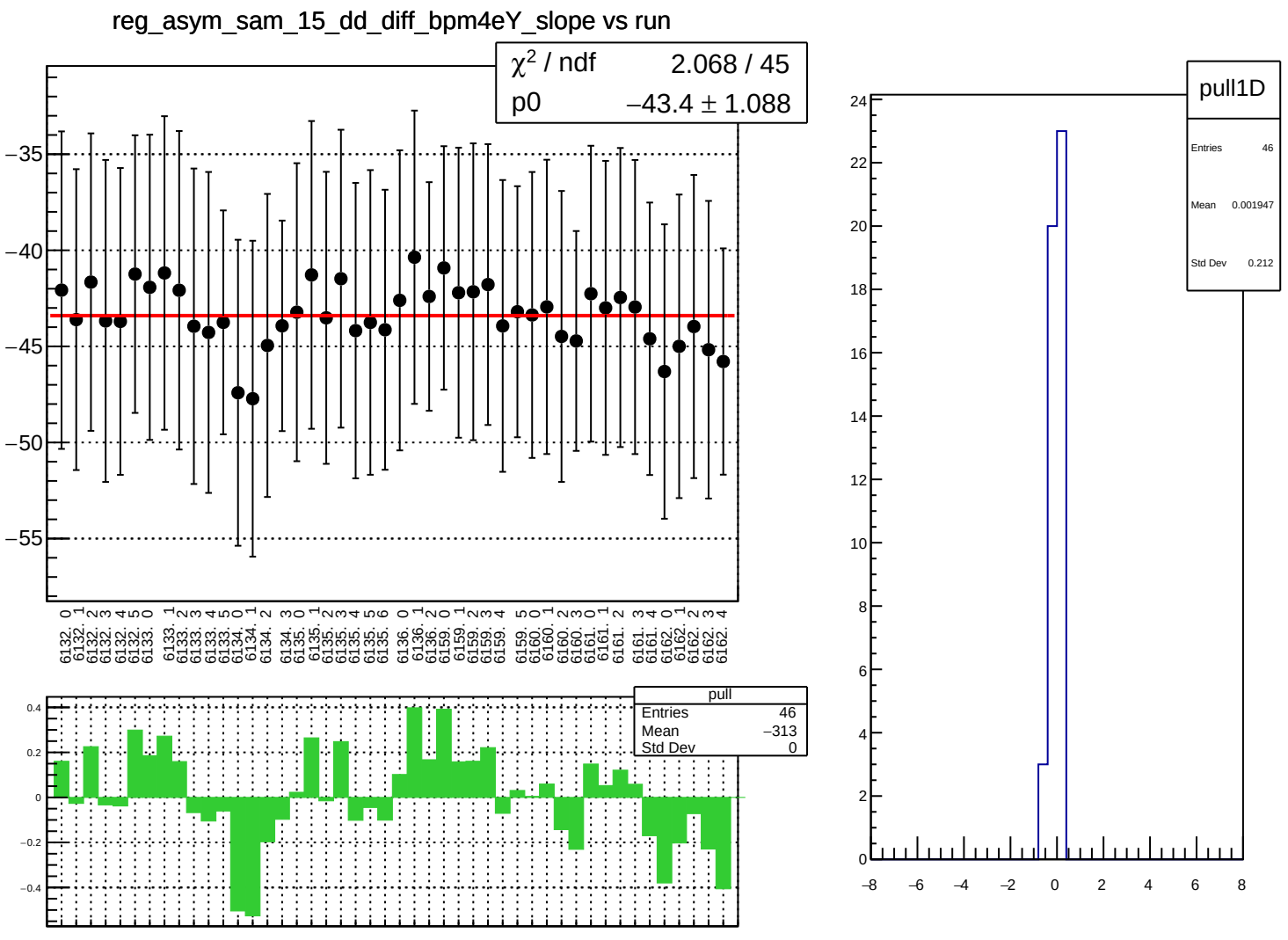

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 5.371 / 45
p0 −0.02024 ± 0.0493
pull
Entries 46
Mean 361.9
Std Dev 0
pull1D
Entries 46
Mean 0.009422
Std Dev 0.3416

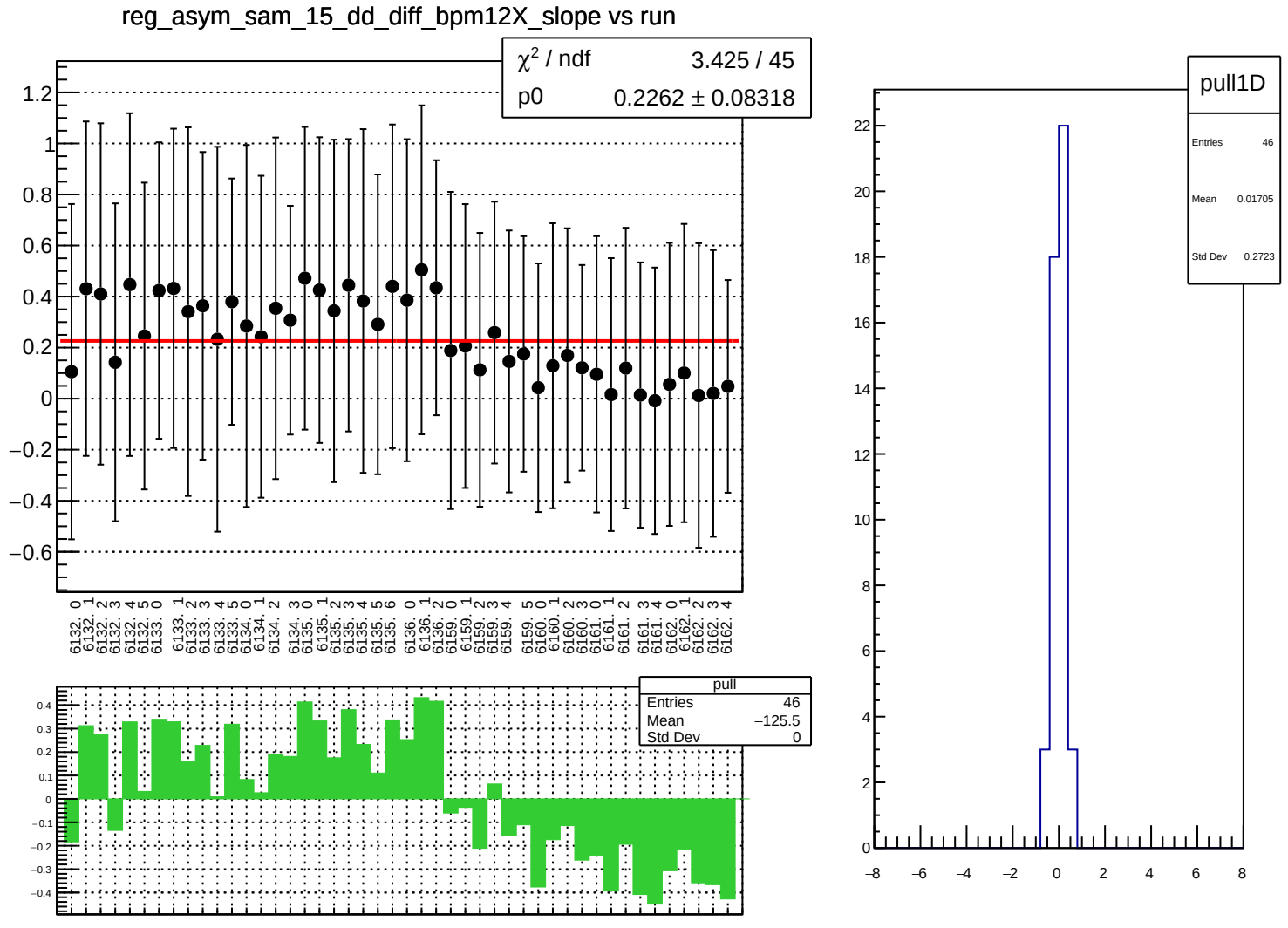

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 1.155 / 45
p0 0.5518 ± 0.8216
pull
Entries 46
Mean −155.2
Std Dev 0

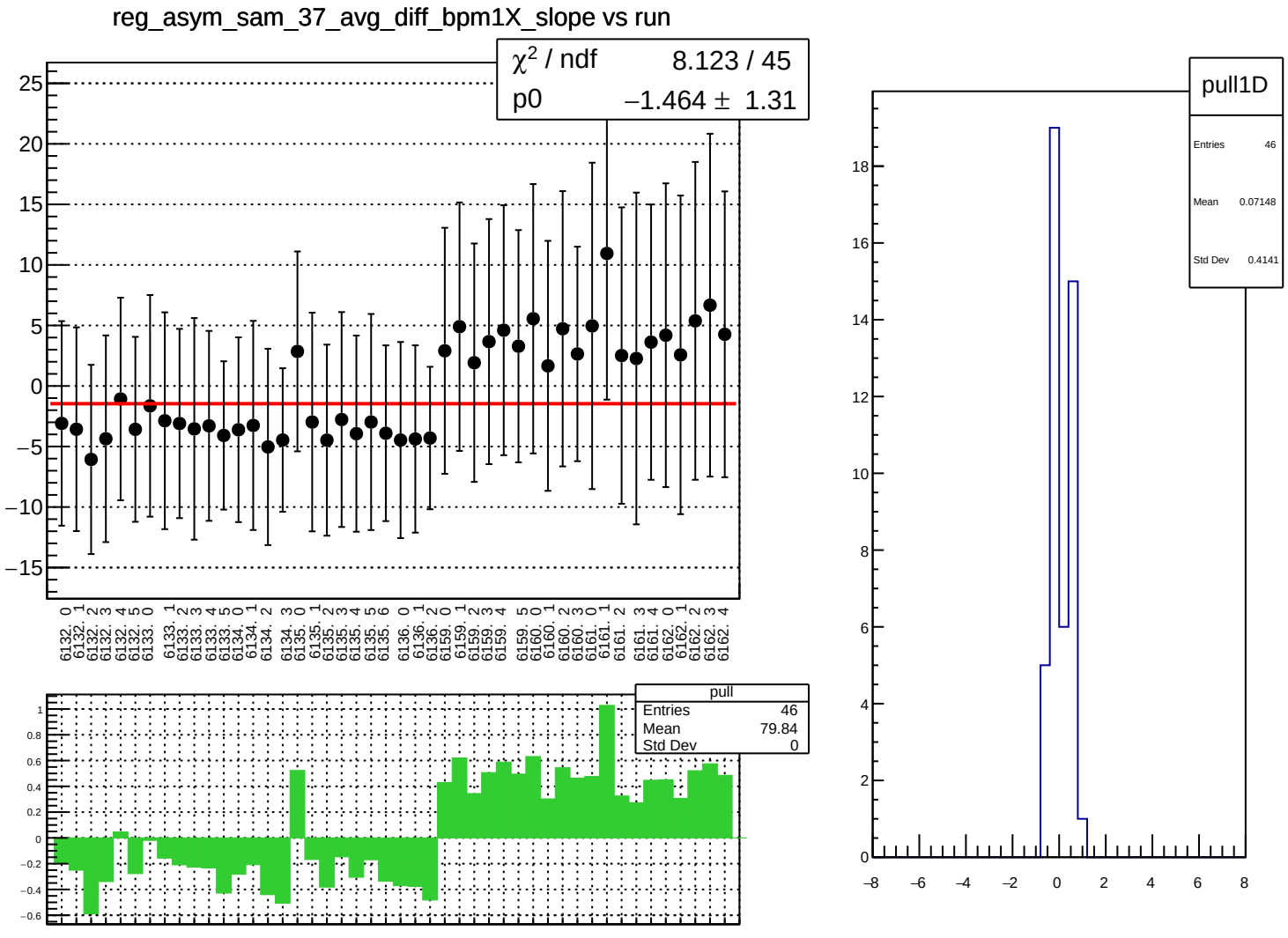

pull1D
Entries 46
Mean 0.003442
Std Dev 0.1584

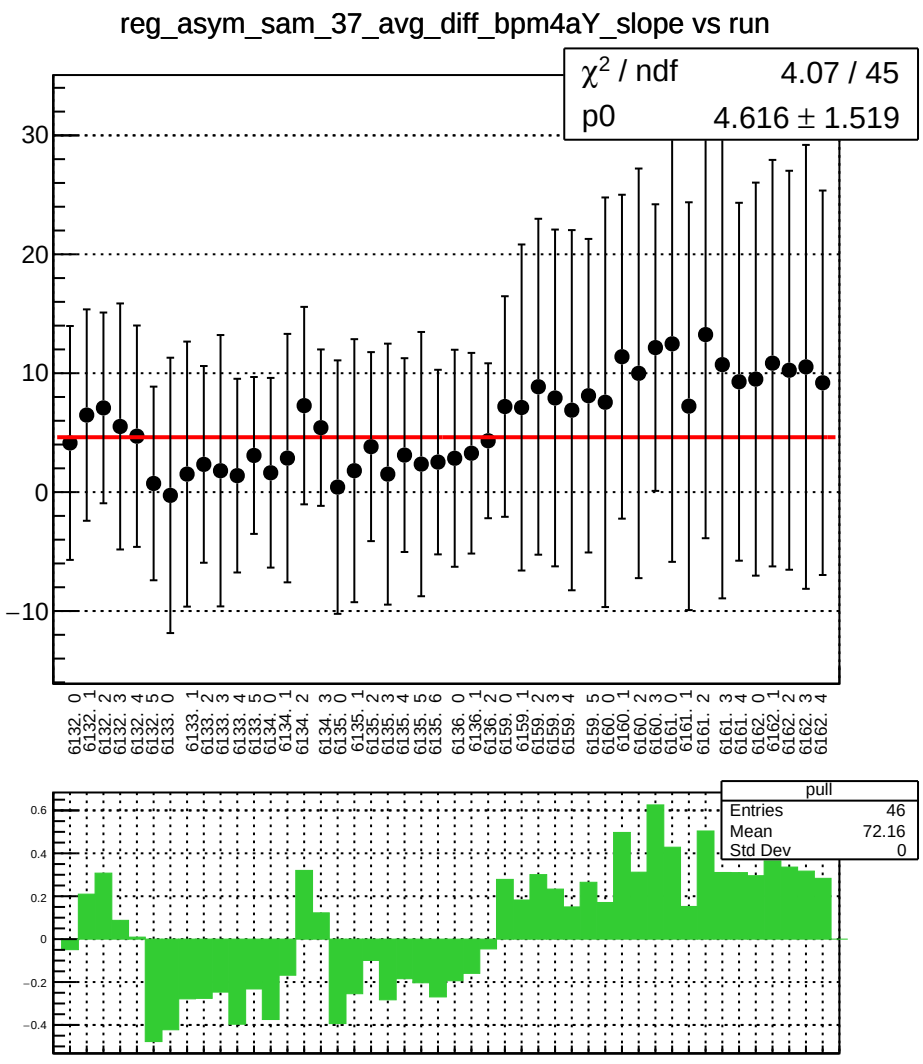

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.24 / 45
p0 −54.96 ± 1.016
−45
−50
−55
−60
−65
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −200.9
Std Dev 0
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 46
Mean −0.006458
Std Dev 0.2206
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

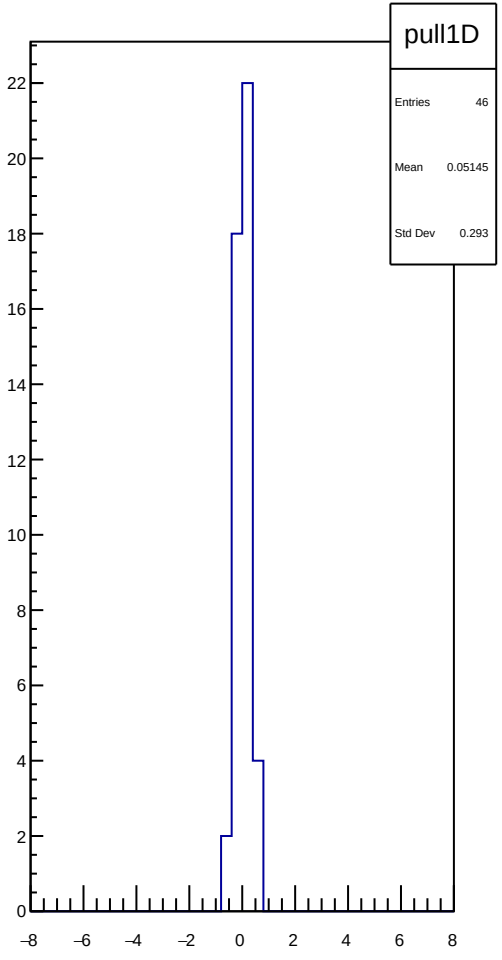

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.156 / 45
p0 −6.185 ± 1.009
pull
Entries 46
Mean −134.3
Std Dev 0
pull1D
Entries 46
Mean −0.003794
Std Dev 0.1585

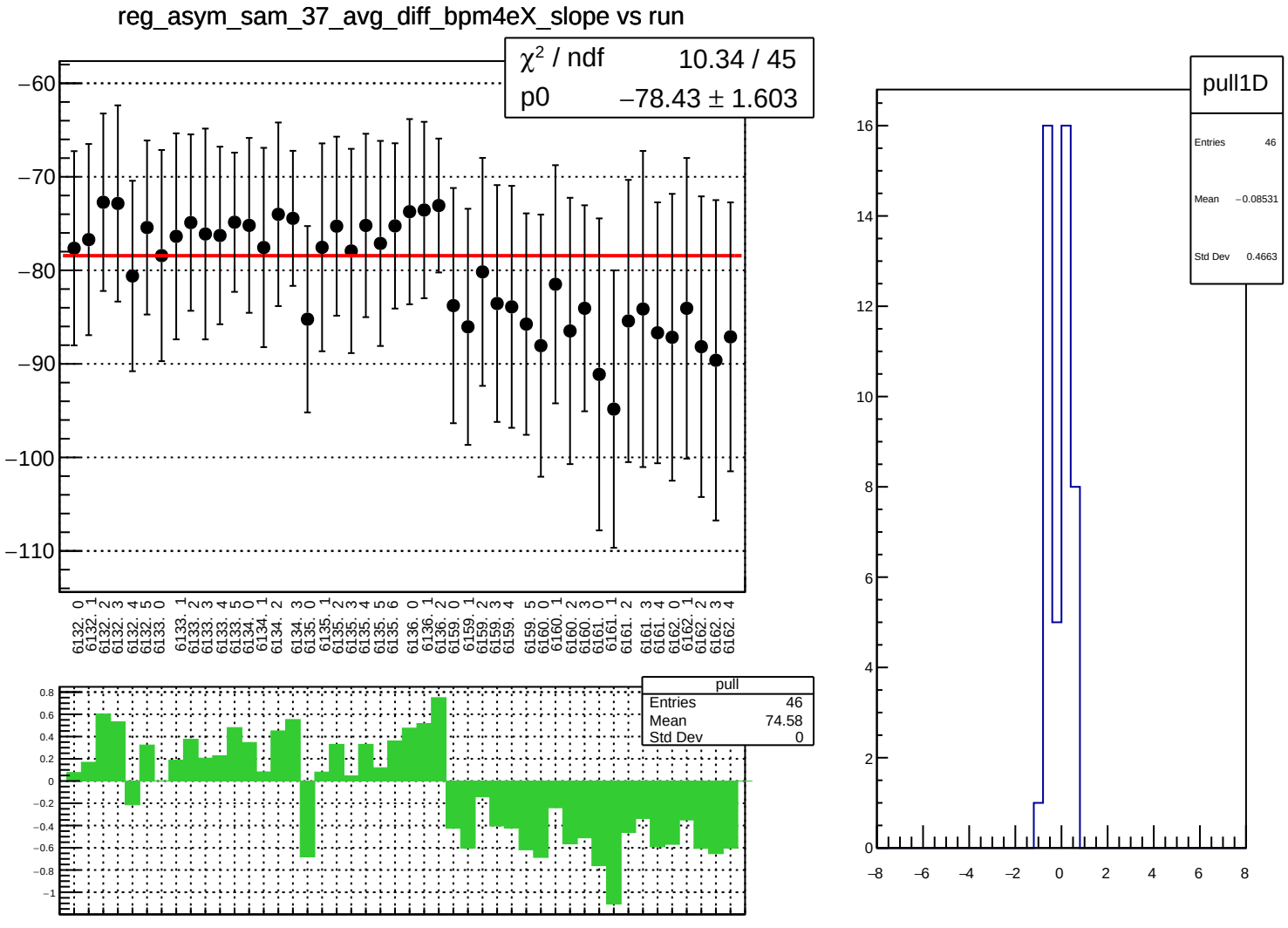

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.068 / 45
p0 −43.4 ± 1.088
−35
−40
−45
−50
−55
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −313
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 46
Mean 0.001947
Std Dev 0.212
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

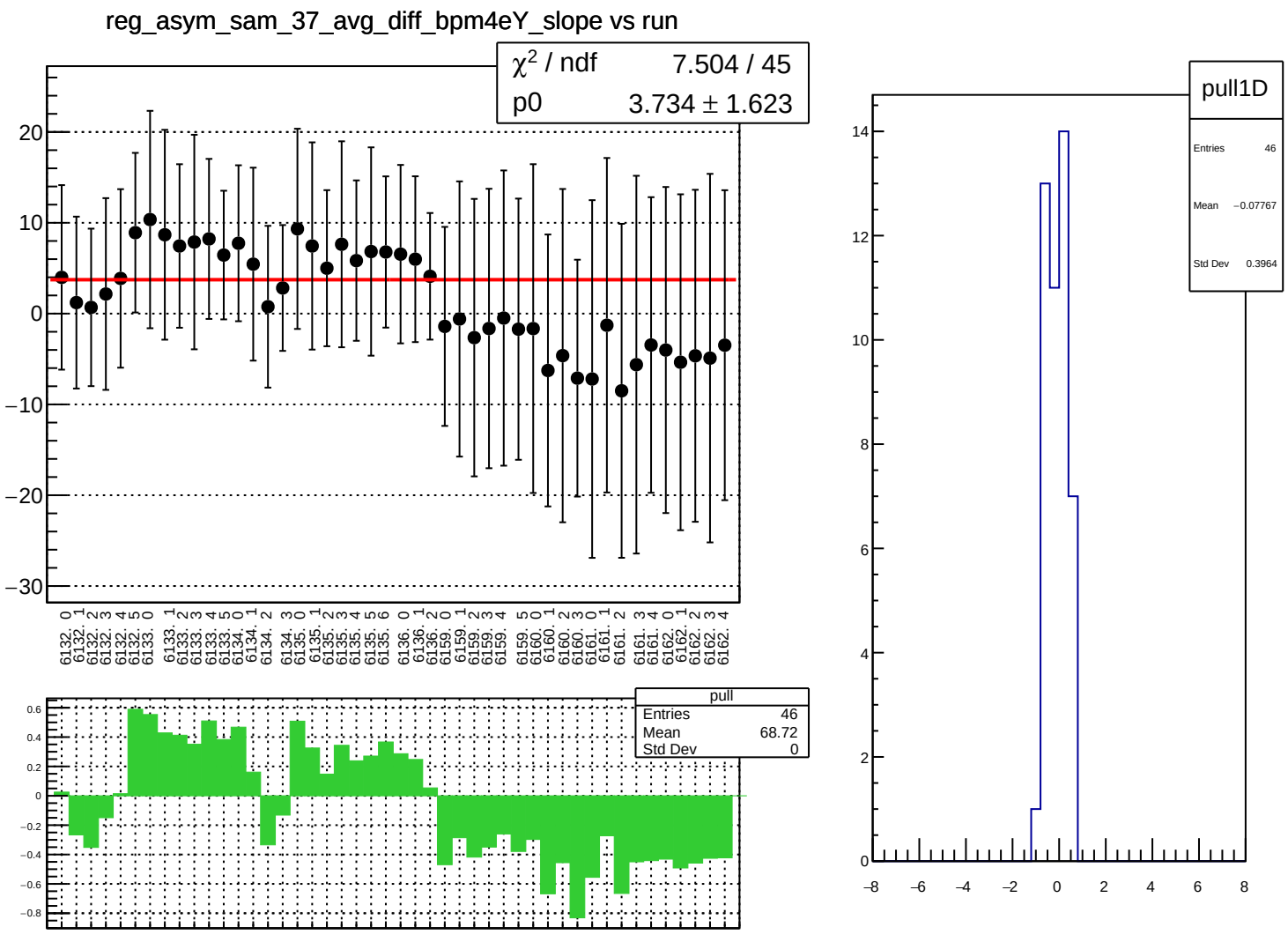

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 3.425 / 45
p0 0.2262 ± 0.08318
pull
Entries 46
Mean −125.5
Std Dev 0
pull1D
Entries 46
Mean 0.01705
Std Dev 0.2723

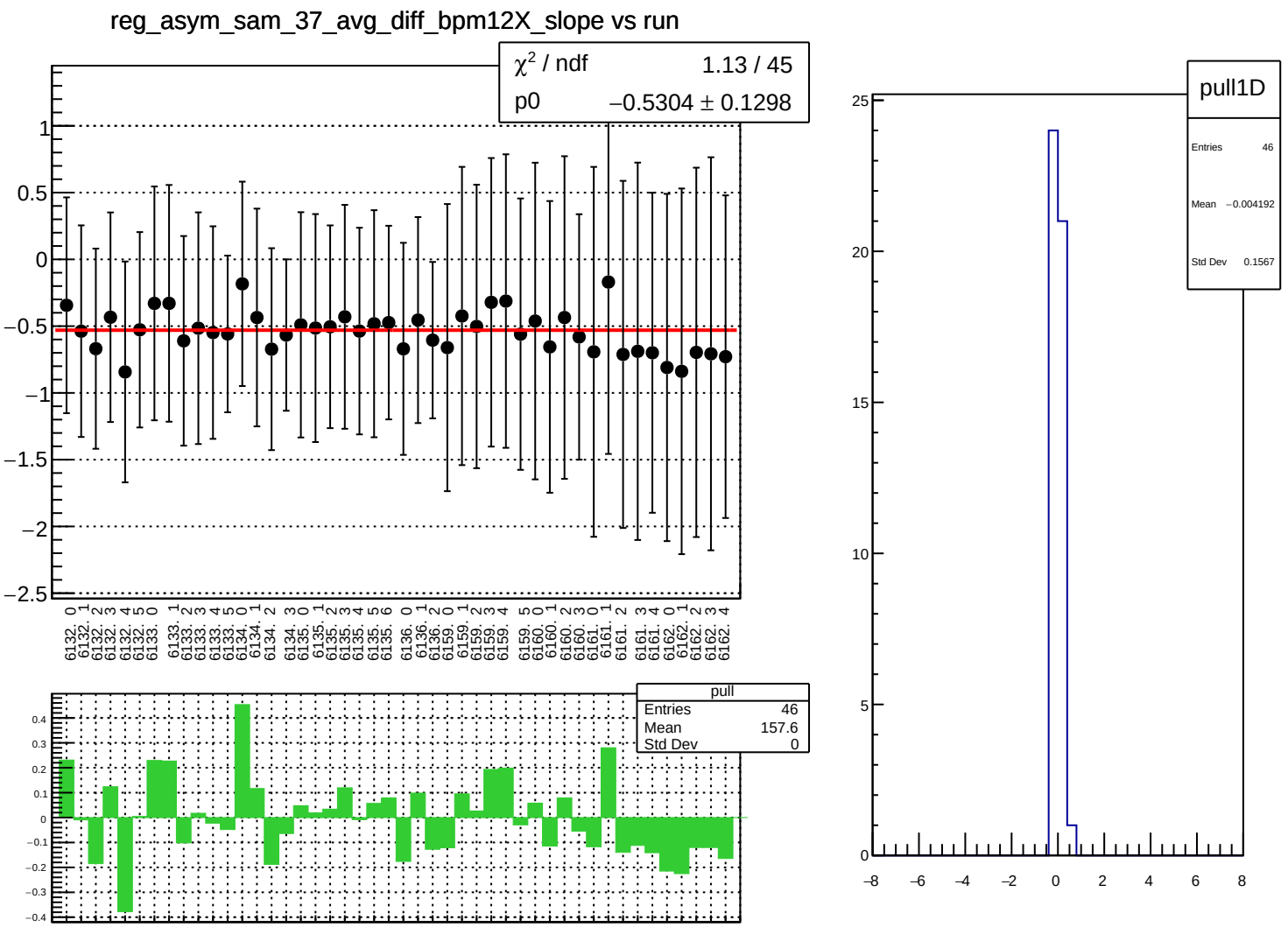

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 8.123 / 45
p0 −1.464 ± 1.31
pull
Entries 46
Mean 79.84
Std Dev 0
pull1D
Entries 46
Mean 0.07148
Std Dev 0.4141

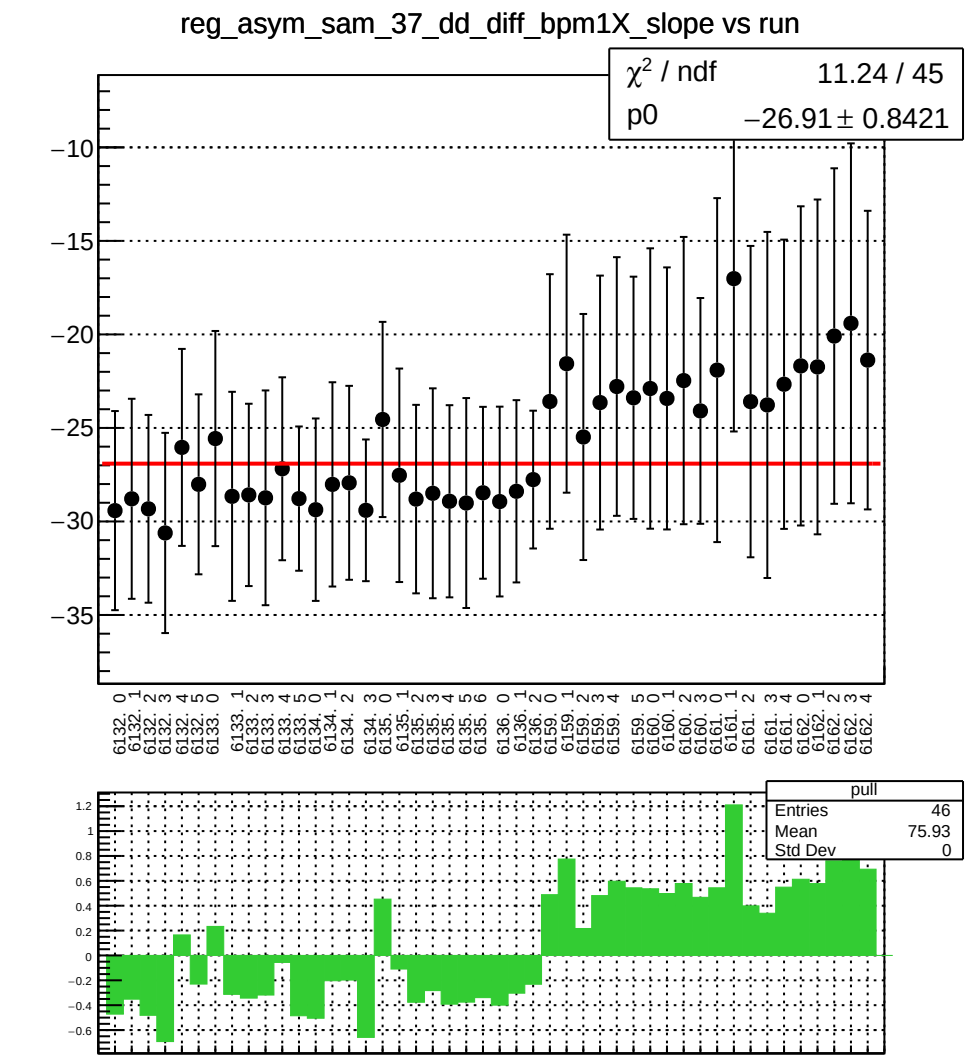

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.07 / 45
p0 4.616 ± 1.519
pull
Entries 46
Mean 72.16
Std Dev 0

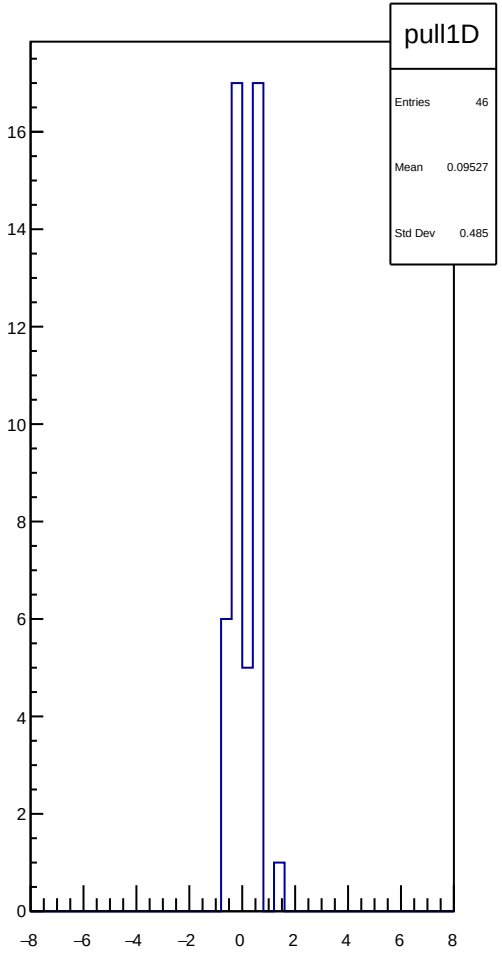

pull1D
Entries 46
Mean 0.05145
Std Dev 0.293

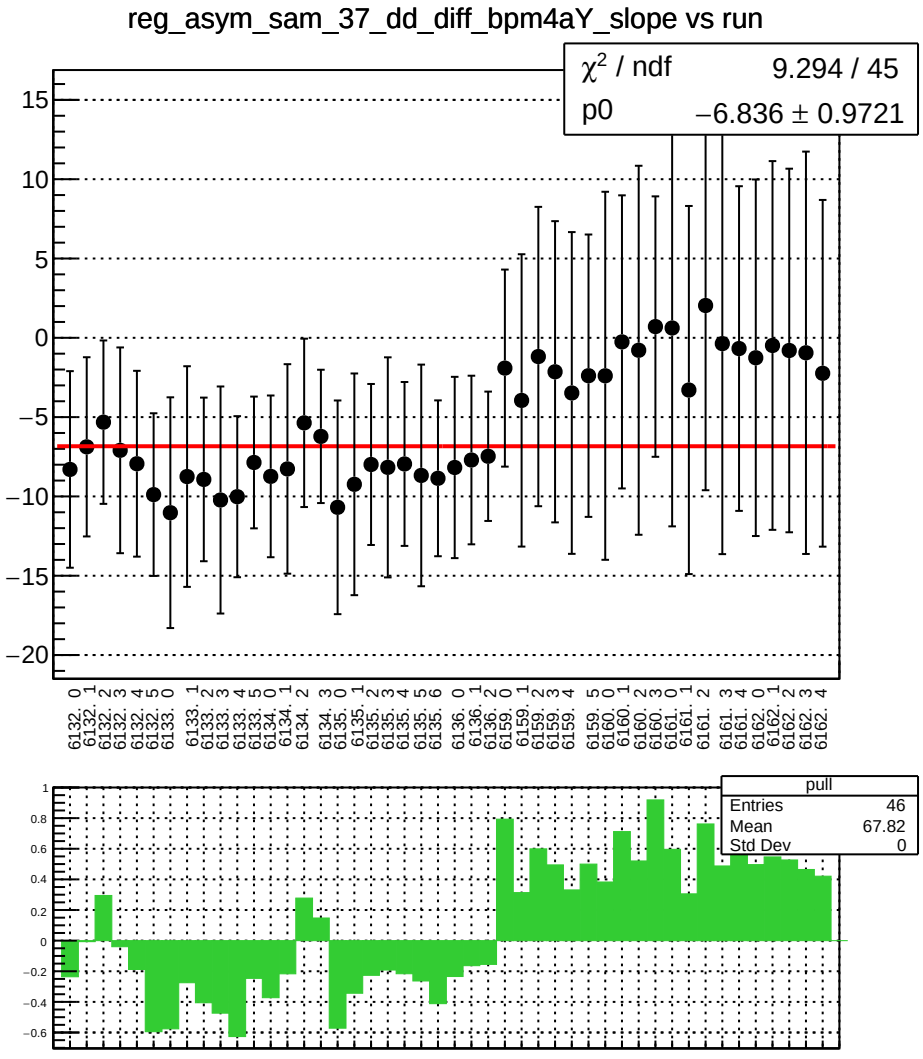

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.34 / 45
p0 −78.43 ± 1.603
pull
Entries 46
Mean 74.58
Std Dev 0
pull1D
Entries 46
Mean −0.08531
Std Dev 0.4663

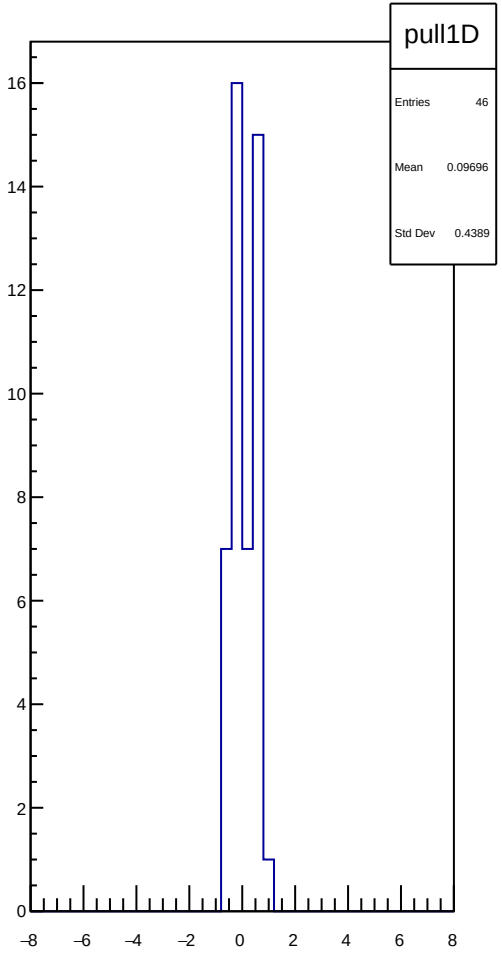

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.504 / 45
p0 3.734 ± 1.623
pull
Entries 46
Mean 68.72
Std Dev 0
pull1D
Entries 46
Mean −0.07767
Std Dev 0.3964

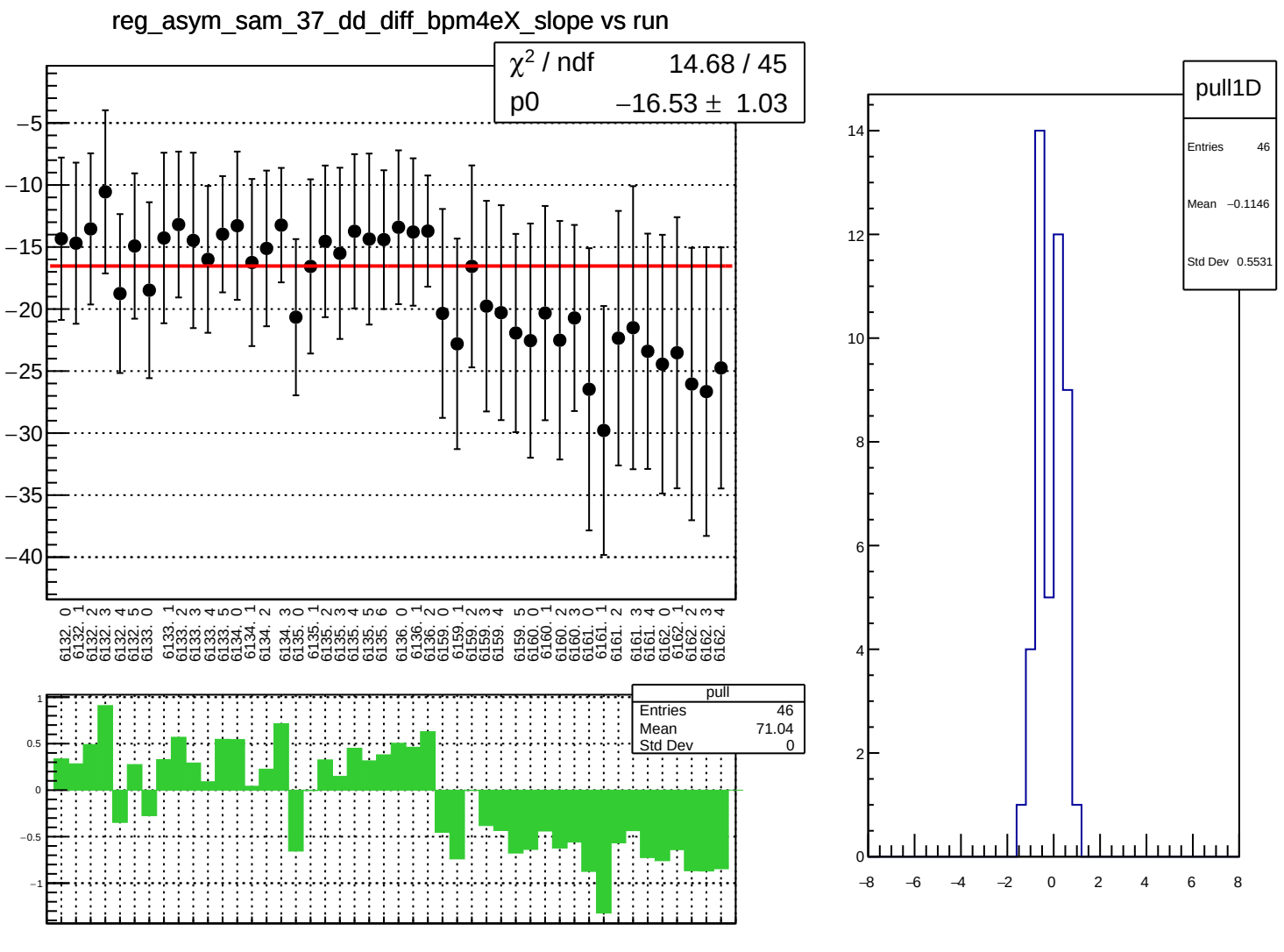

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 1.13 / 45
p0 −0.5304 ± 0.1298
pull
Entries 46
Mean 157.6
Std Dev 0
pull1D
Entries 46
Mean −0.004192
Std Dev 0.1567

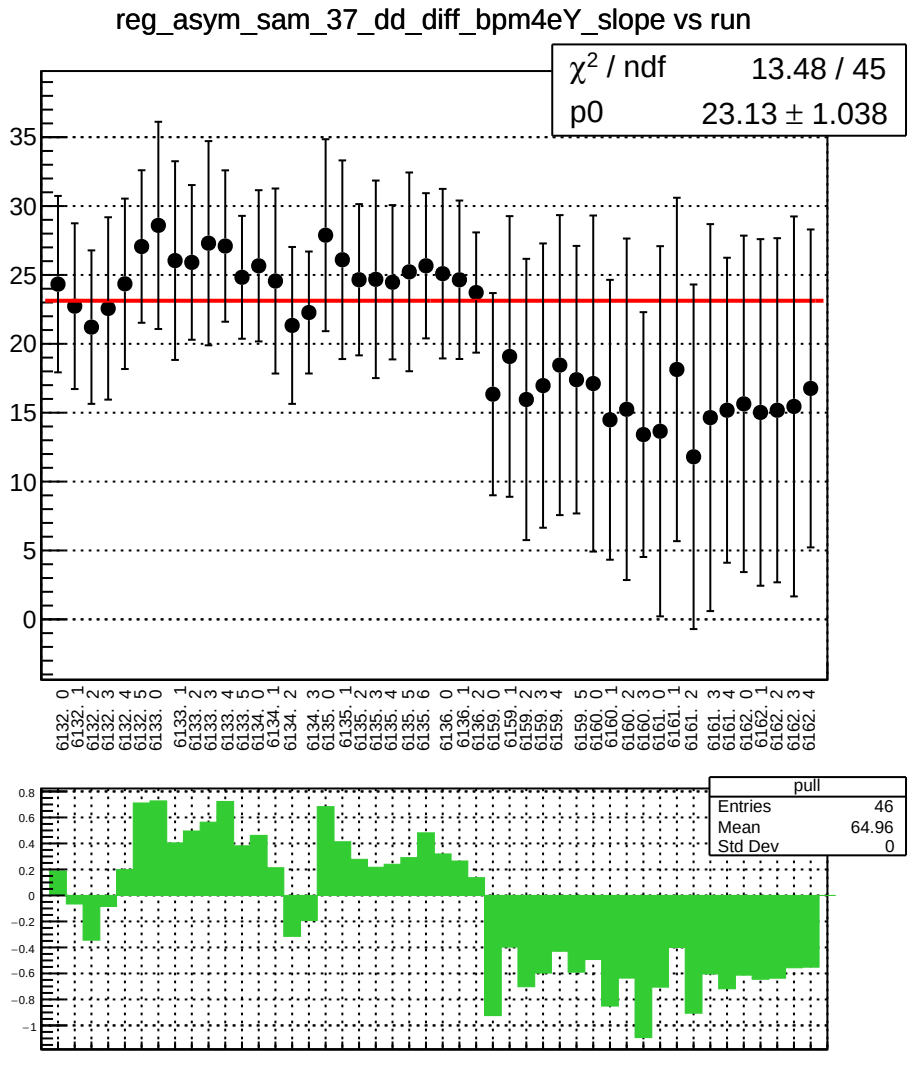

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 11.24 / 45
p0 −26.91 ± 0.8421
pull
Entries 46
Mean 75.93
Std Dev 0

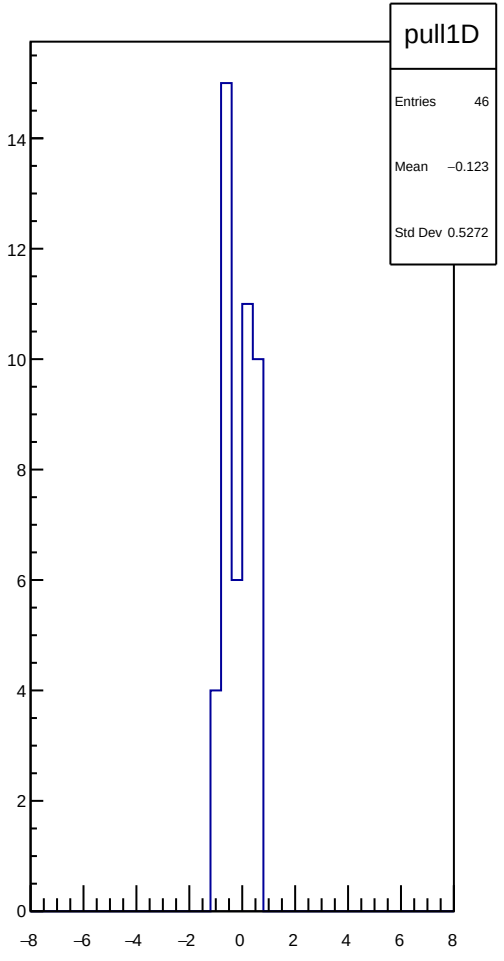

pull1D
Entries 46
Mean 0.09527
Std Dev 0.485

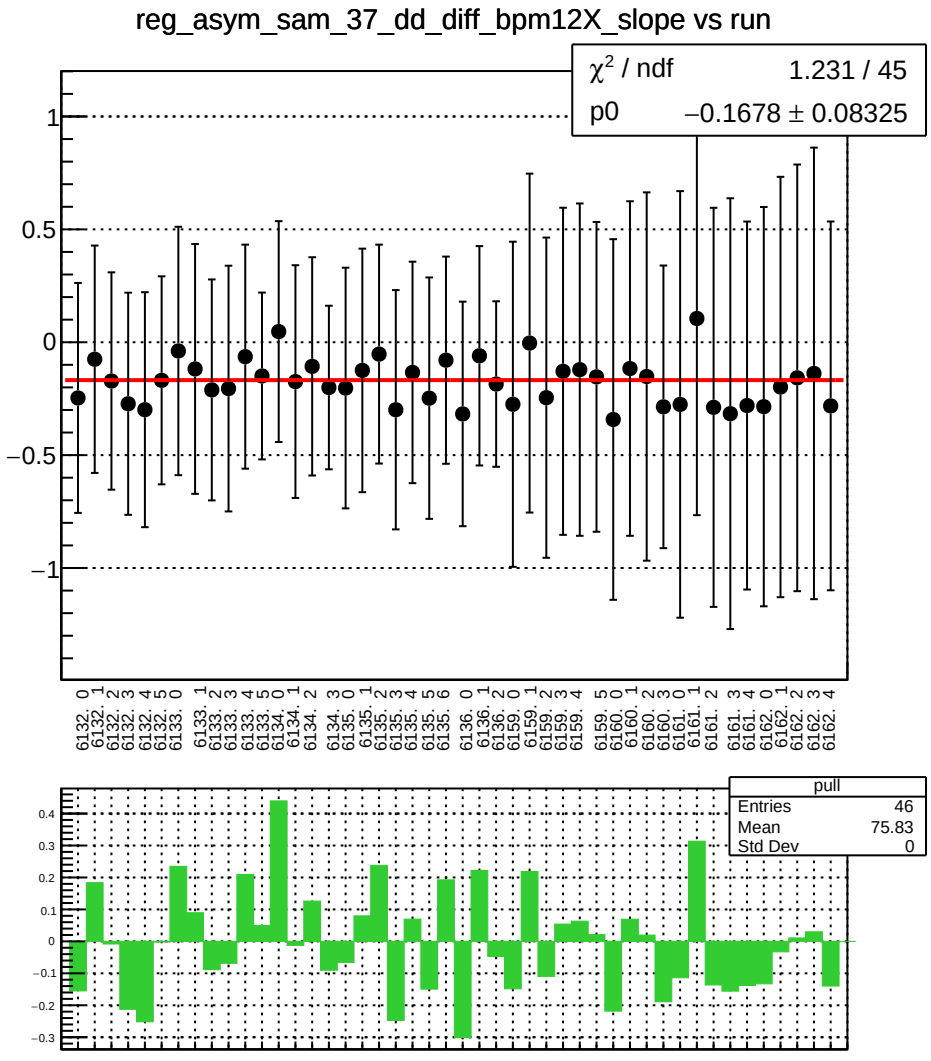

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.294 / 45
p0 −6.836 ± 0.9721
pull
Entries 46
Mean 67.82
Std Dev 0

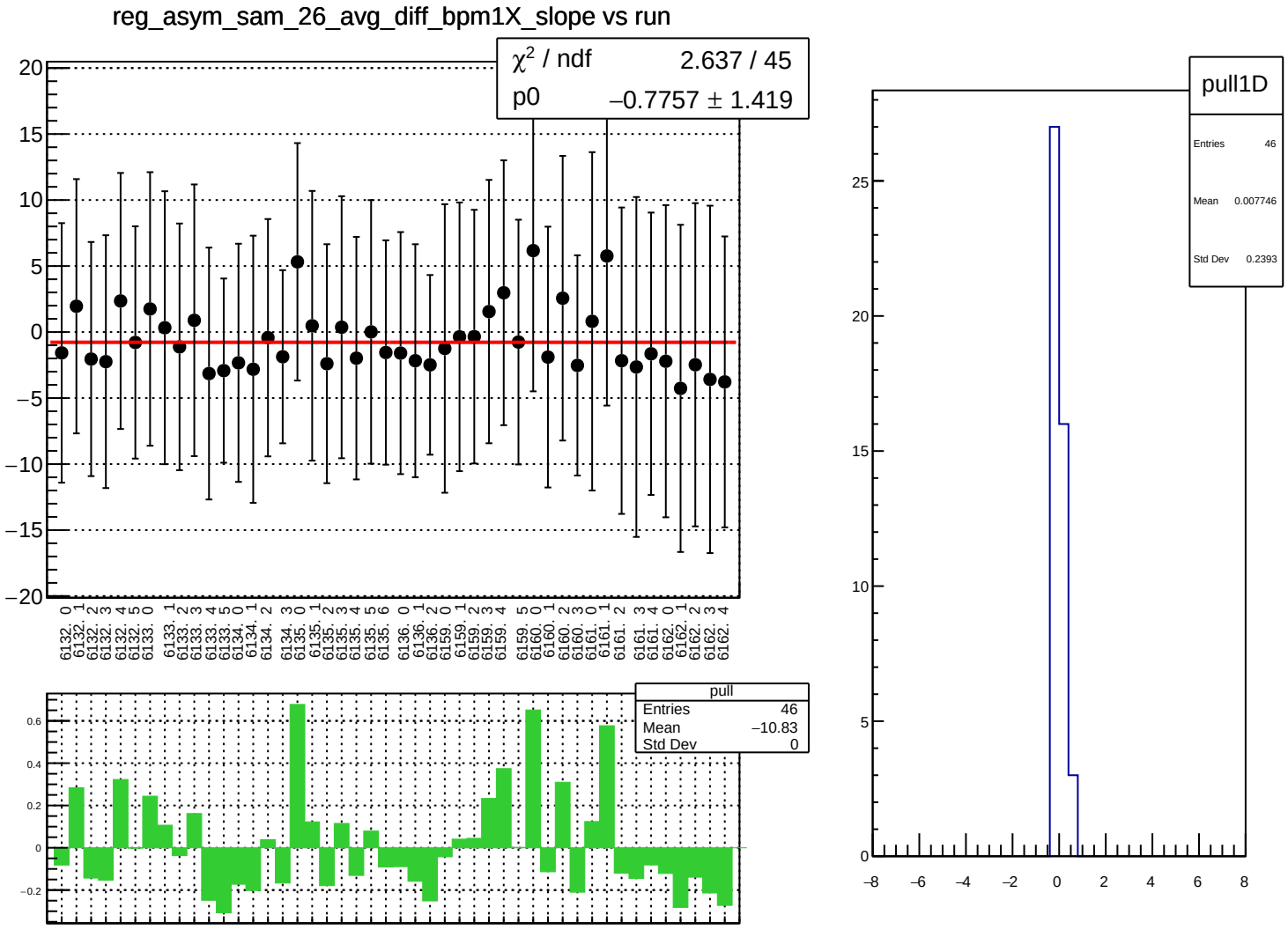

pull1D
Entries 46
Mean 0.09696
Std Dev 0.4389

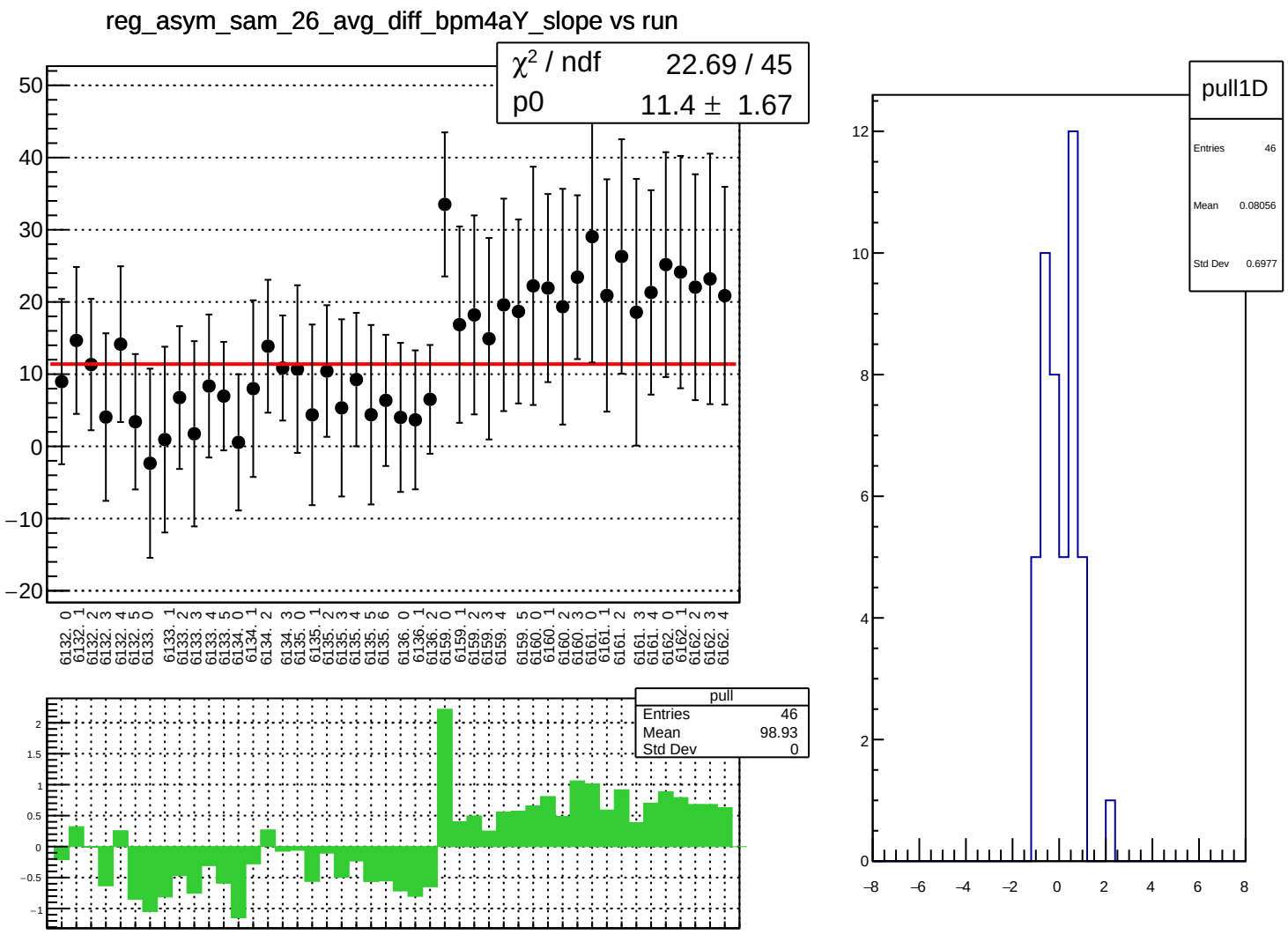

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.68 / 45
p0 −16.53 ± 1.03
pull
Entries 46
Mean 71.04
Std Dev 0
pull1D
Entries 46
Mean −0.1146
Std Dev 0.5531

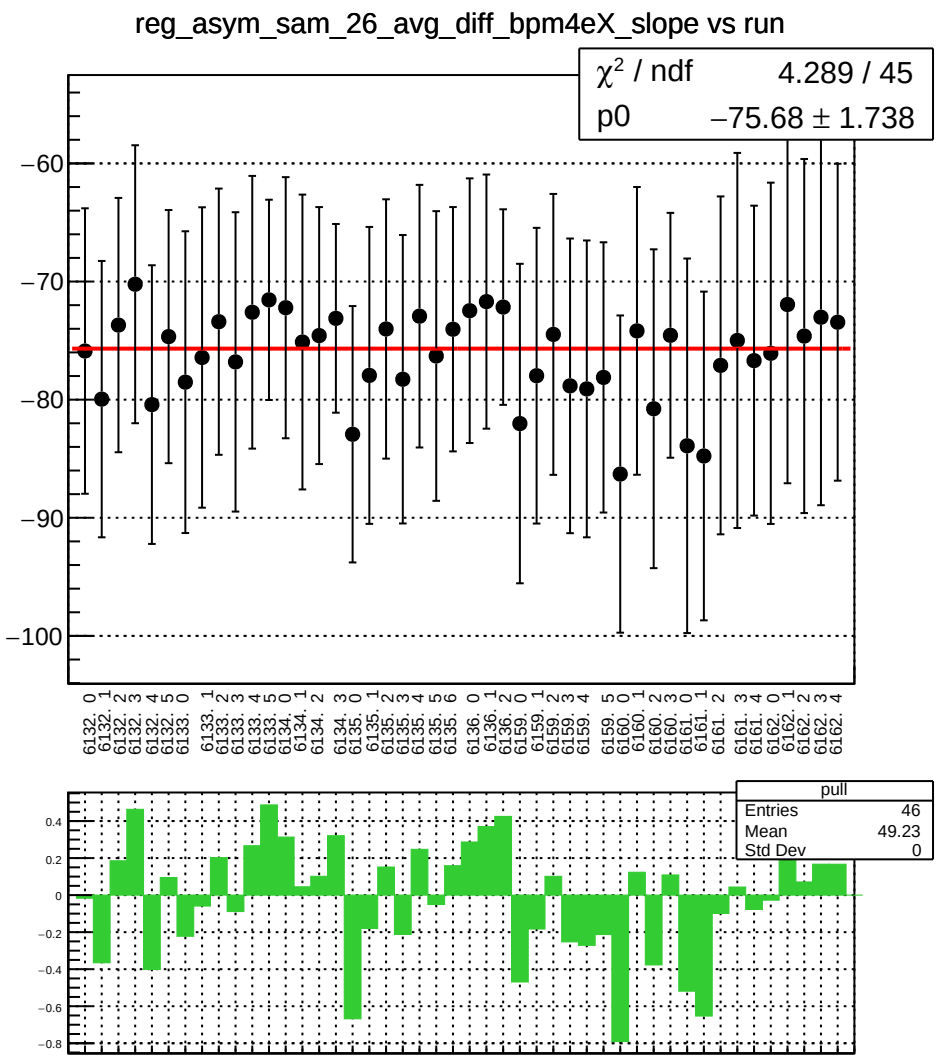

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.48 / 45
p0 23.13 ± 1.038
pull
Entries 46
Mean 64.96
Std Dev 0

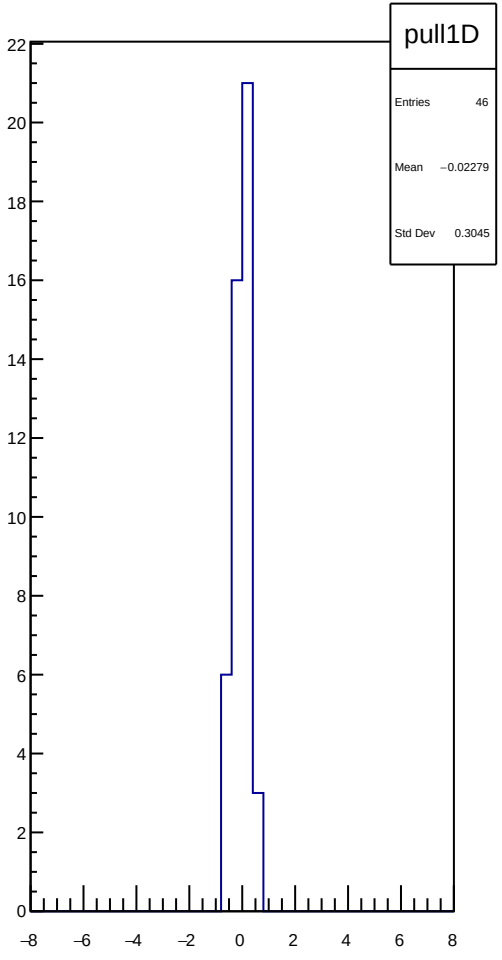

pull1D
Entries 46
Mean −0.123
Std Dev 0.5272

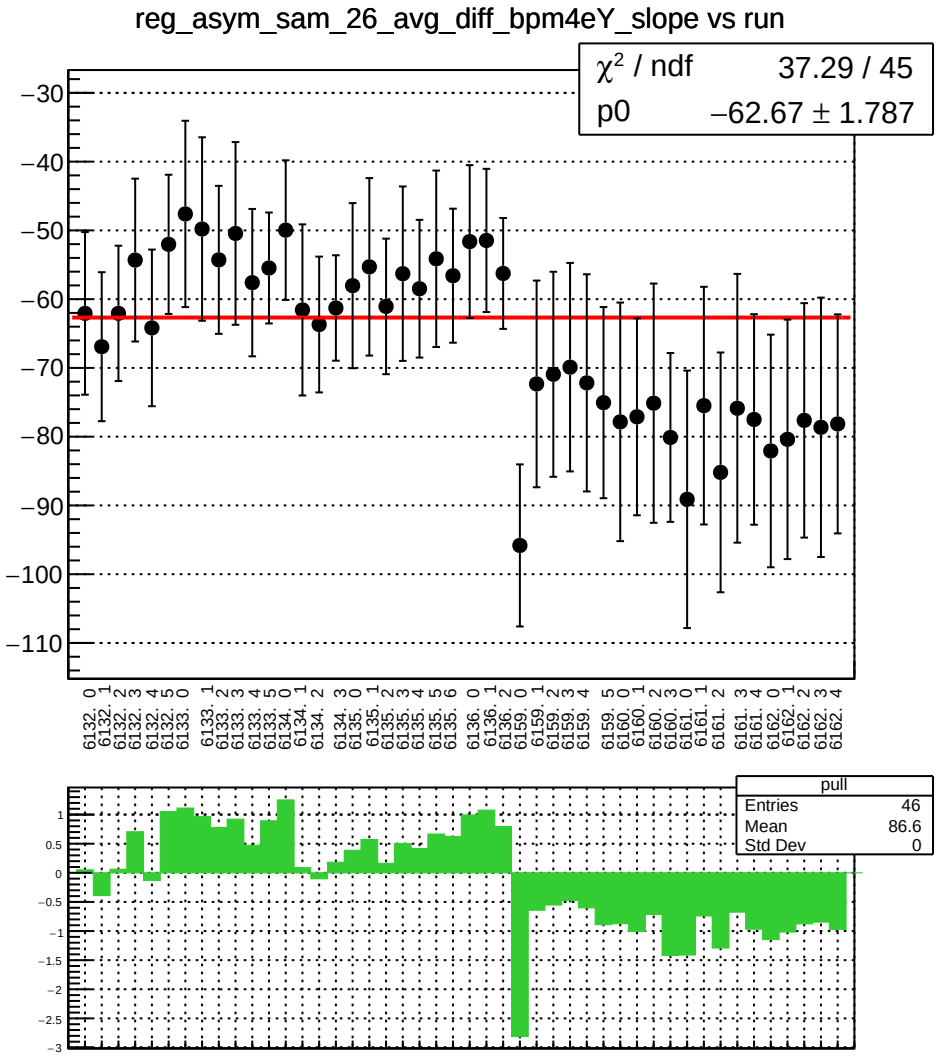

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 1.231 / 45
p0 −0.1678 ± 0.08325
pull
Entries 46
Mean 75.83
Std Dev 0
pull1D
Entries 46
Mean −0.006122
Std Dev 0.1635

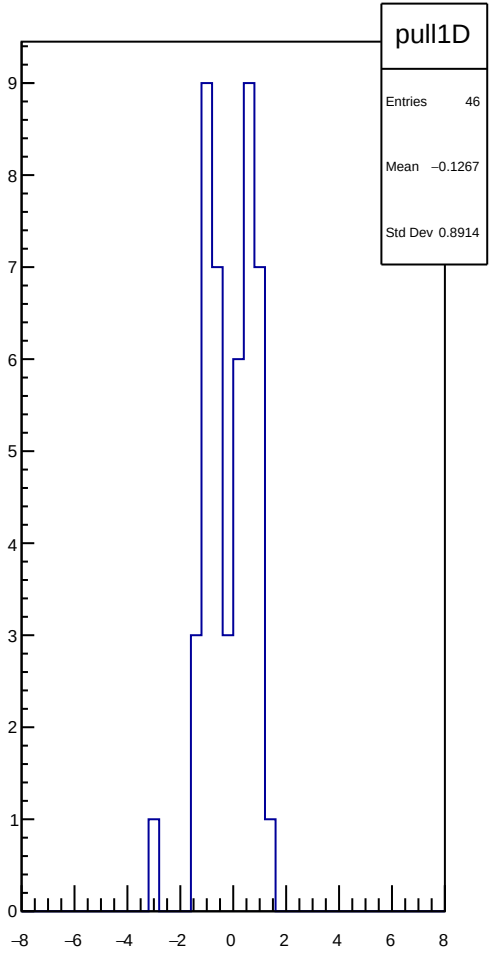

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 2.637 / 45
p0 −0.7757 ± 1.419
pull
Entries 46
Mean −10.83
Std Dev 0
pull1D
Entries 46
Mean 0.007746
Std Dev 0.2393

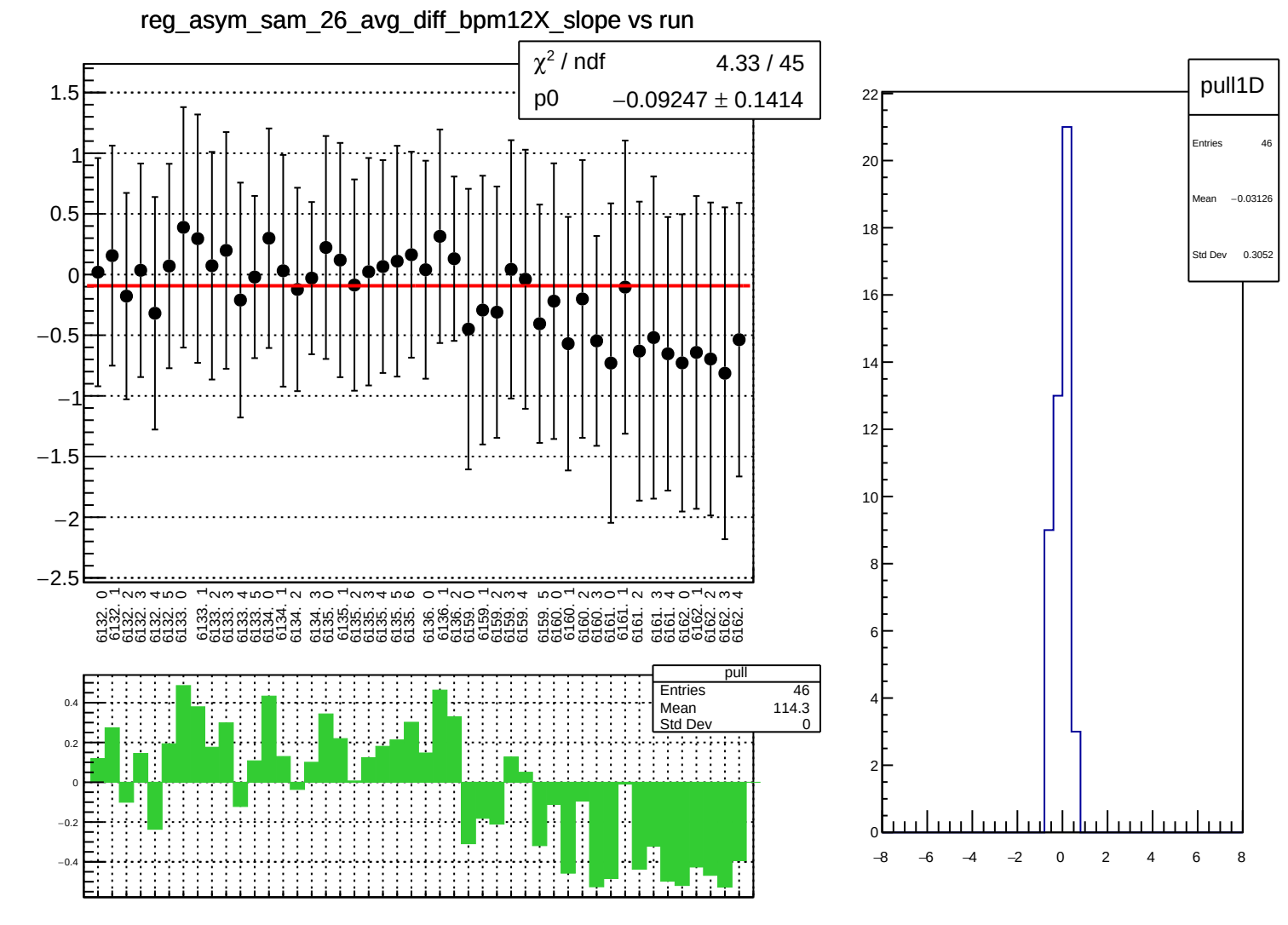

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.69 / 45
p0 11.4 ± 1.67
pull
Entries 46
Mean 98.93
Std Dev 0
pull1D
Entries 46
Mean 0.08056
Std Dev 0.6977

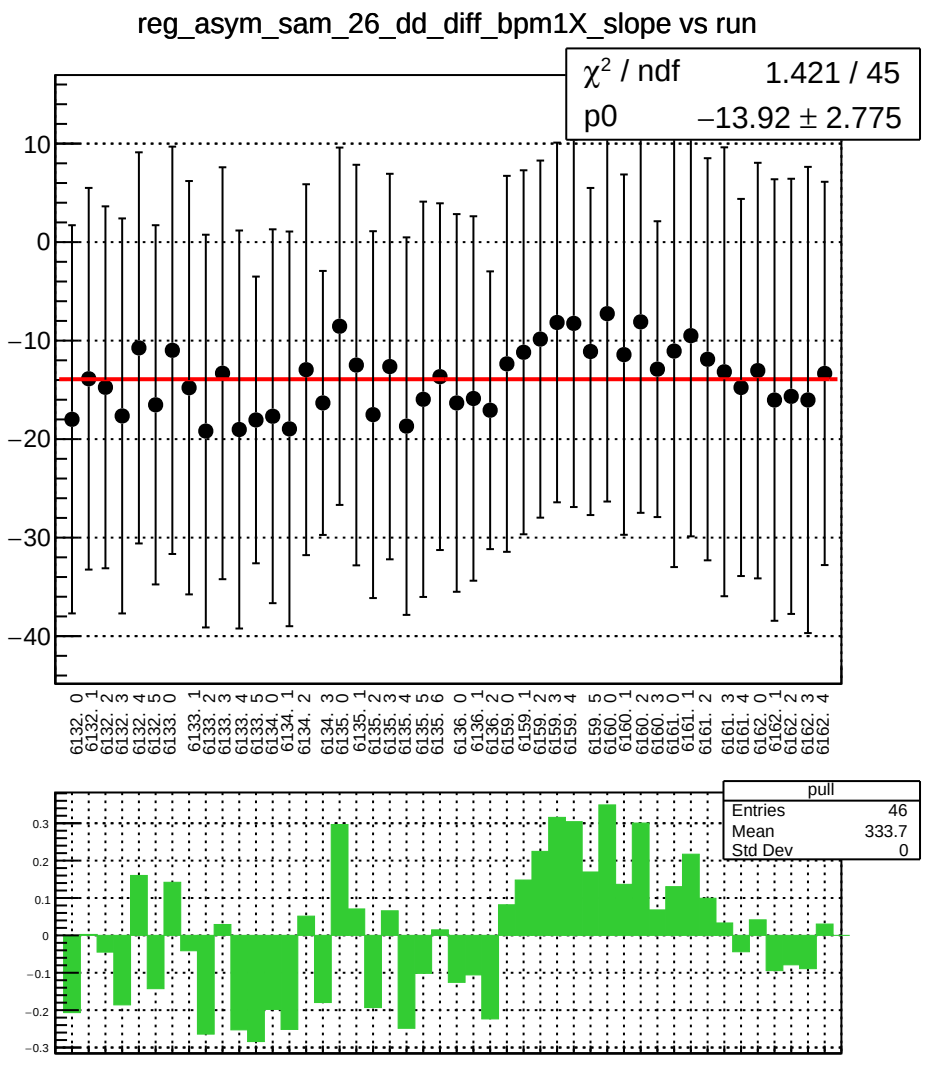

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.289 / 45
p0 −75.68 ± 1.738
pull
Entries 46
Mean 49.23
Std Dev 0

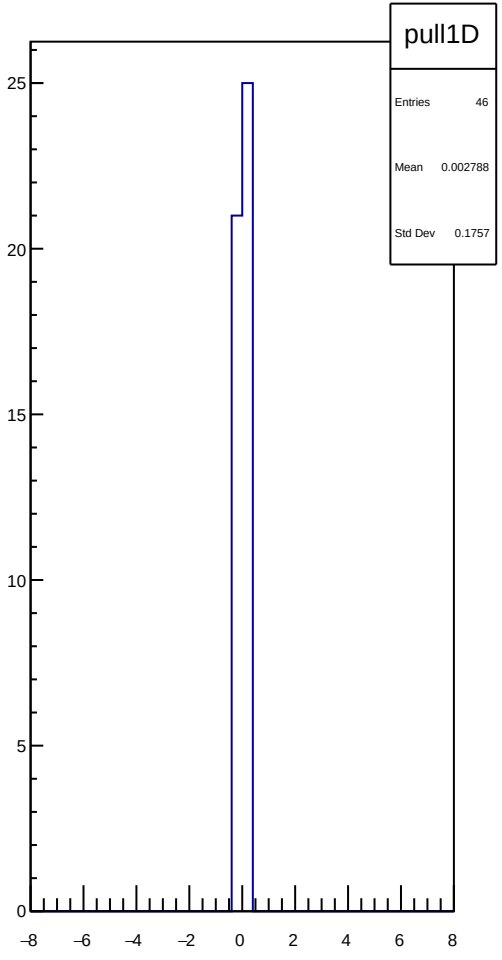

pull1D
Entries 46
Mean −0.02279
Std Dev 0.3045

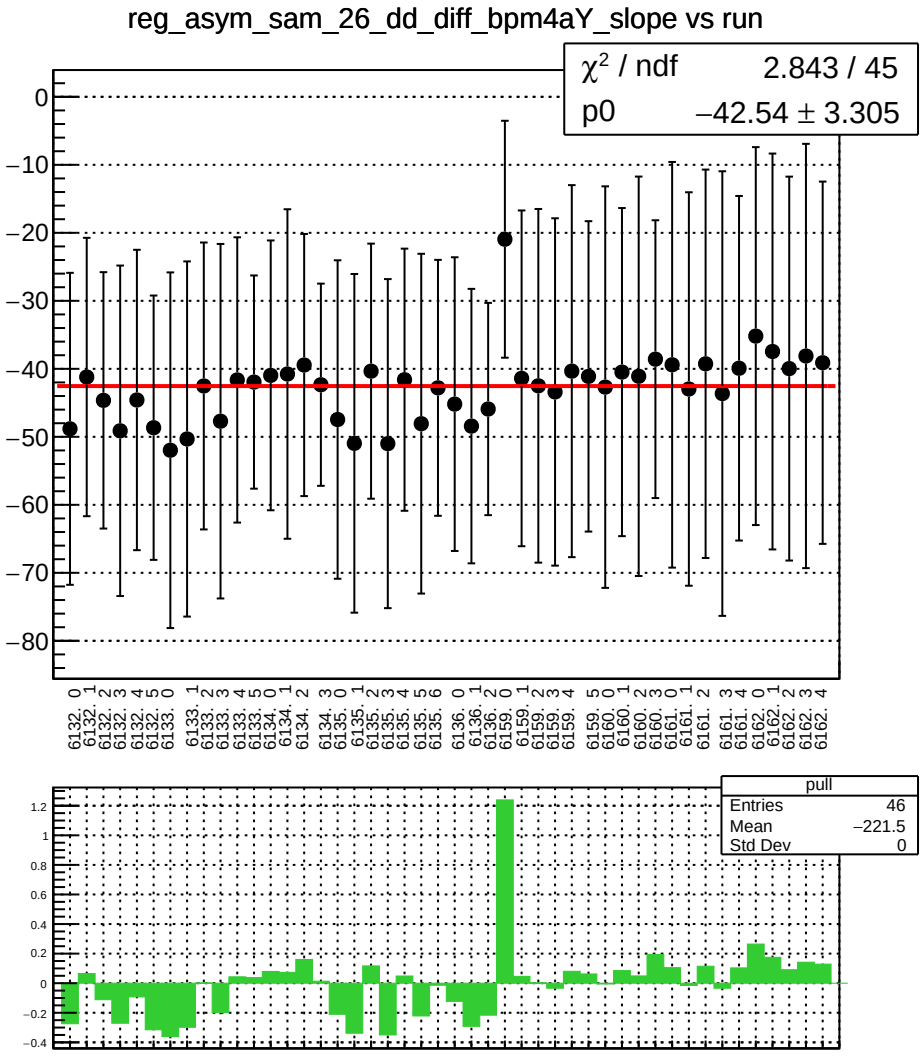

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.29 / 45
p0 −62.67 ± 1.787
pull
Entries 46
Mean 86.6
Std Dev 0

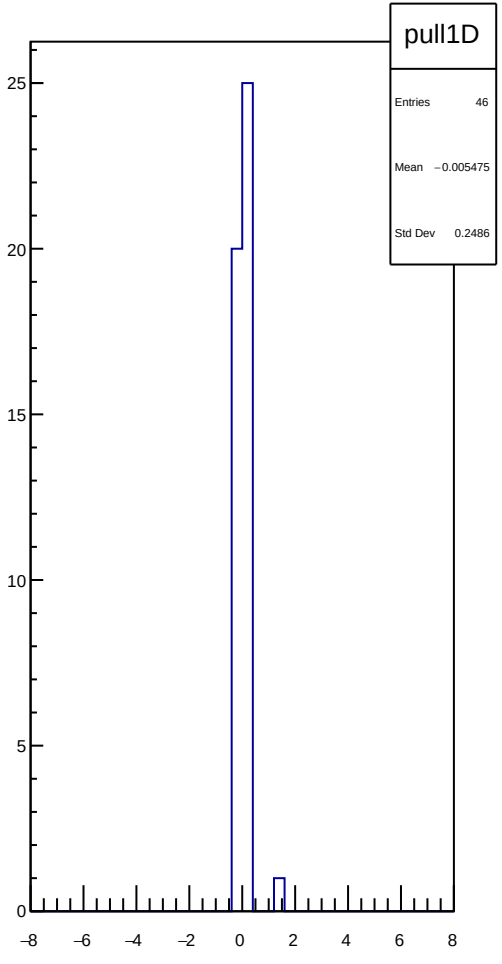

pull1D
Entries 46
Mean −0.1267
Std Dev 0.8914

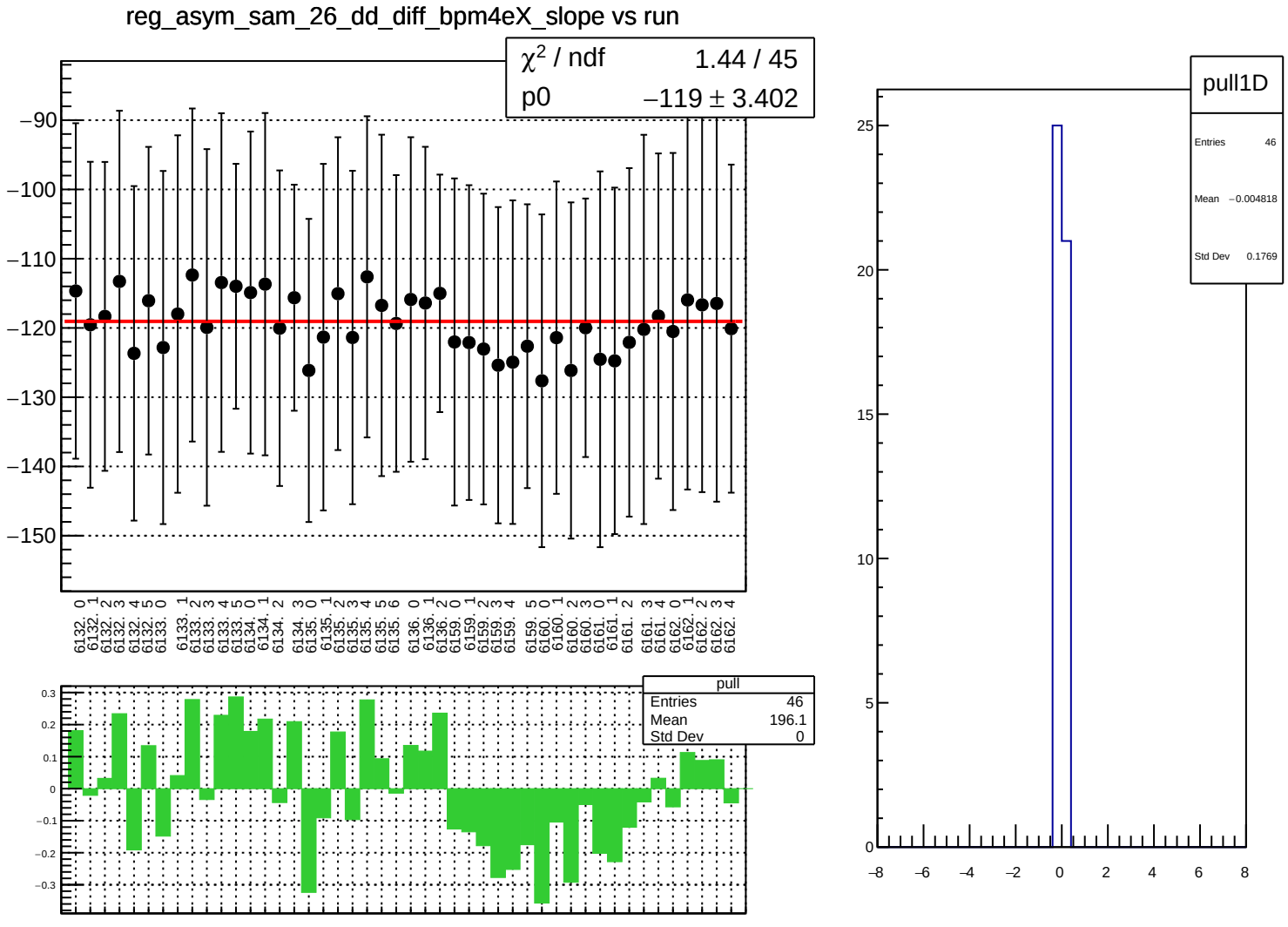

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 4.33 / 45
p0 −0.09247 ± 0.1414
pull
Entries 46
Mean 114.3
Std Dev 0
pull1D
Entries 46
Mean −0.03126
Std Dev 0.3052

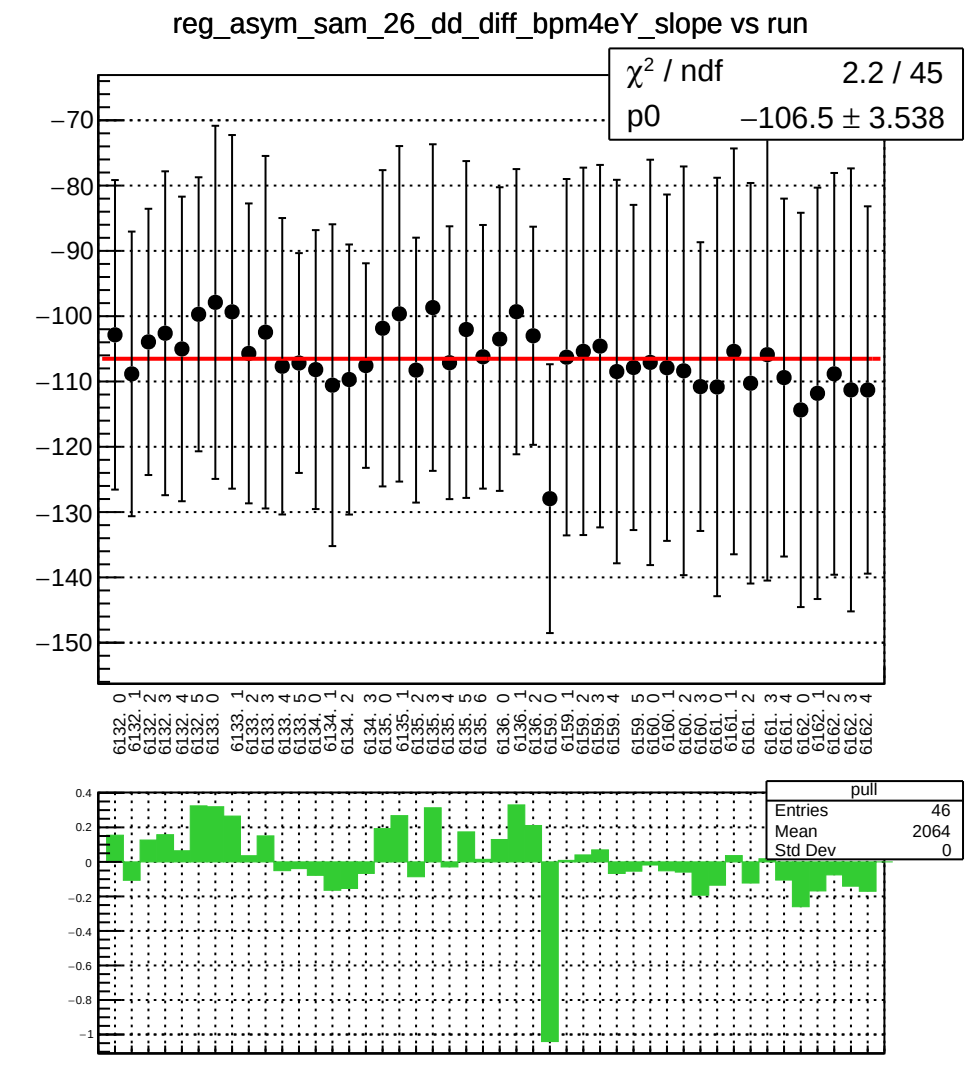

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1.421 / 45
p0 −13.92 ± 2.775
10
0
−10
−20
−30
−40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 333.7
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

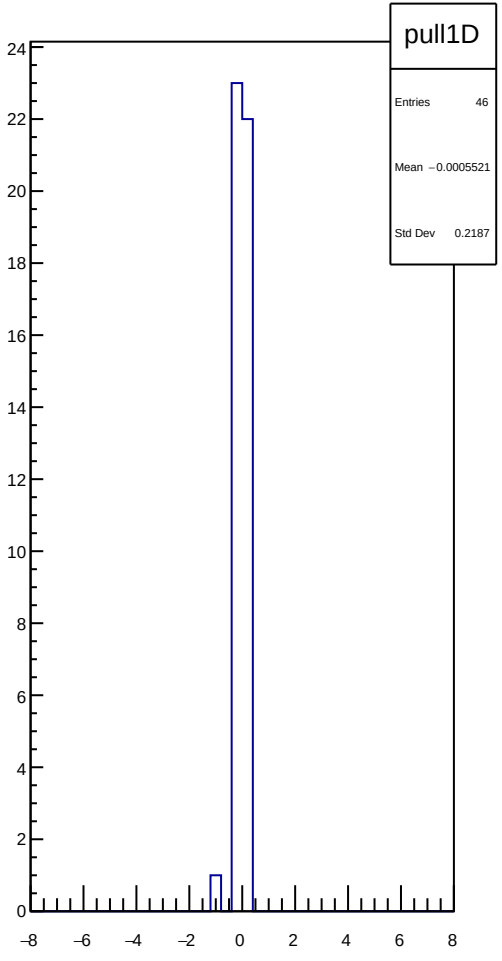

pull1D
Entries 46
Mean 0.002788
Std Dev 0.1757
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

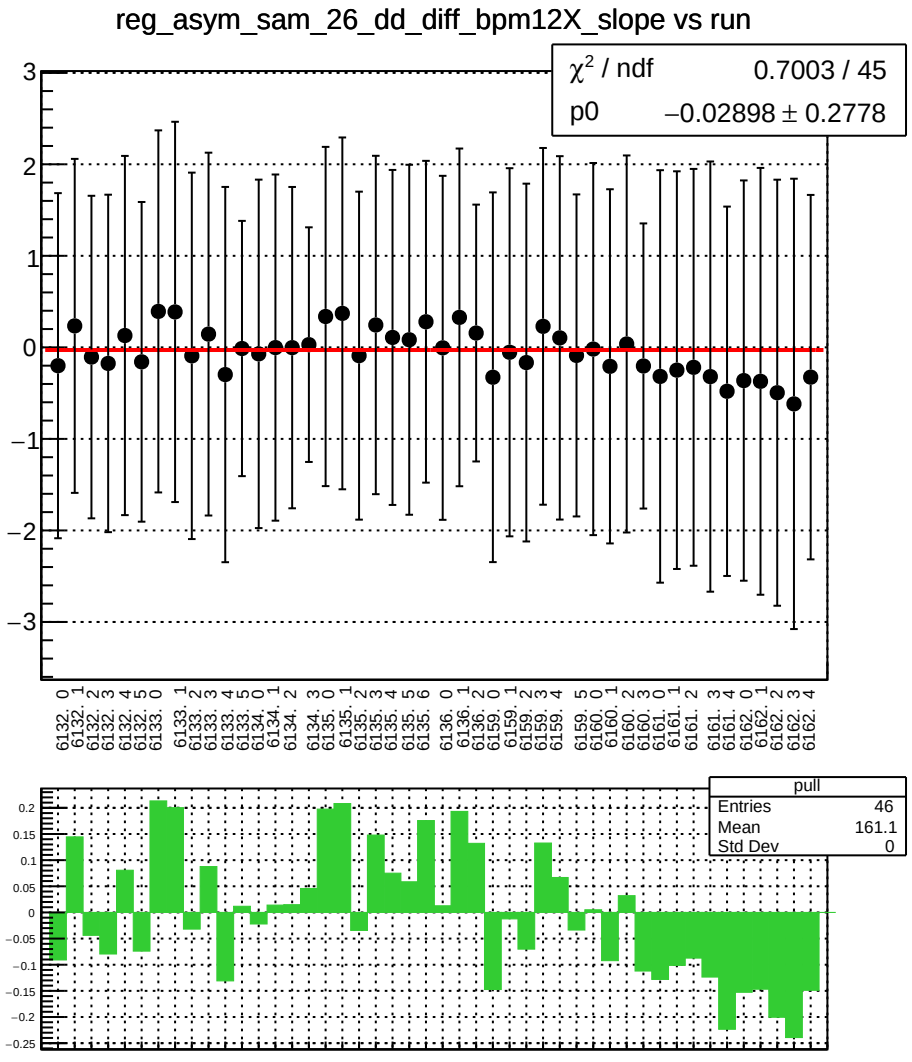

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.843 / 45
p0 −42.54 ± 3.305
pull
Entries 46
Mean −221.5
Std Dev 0

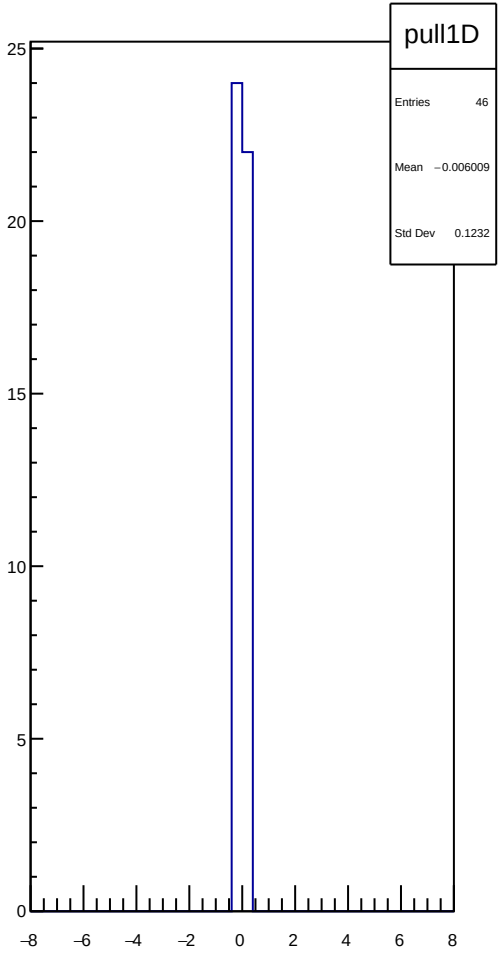

pull1D
Entries 46
Mean −0.005475
Std Dev 0.2486

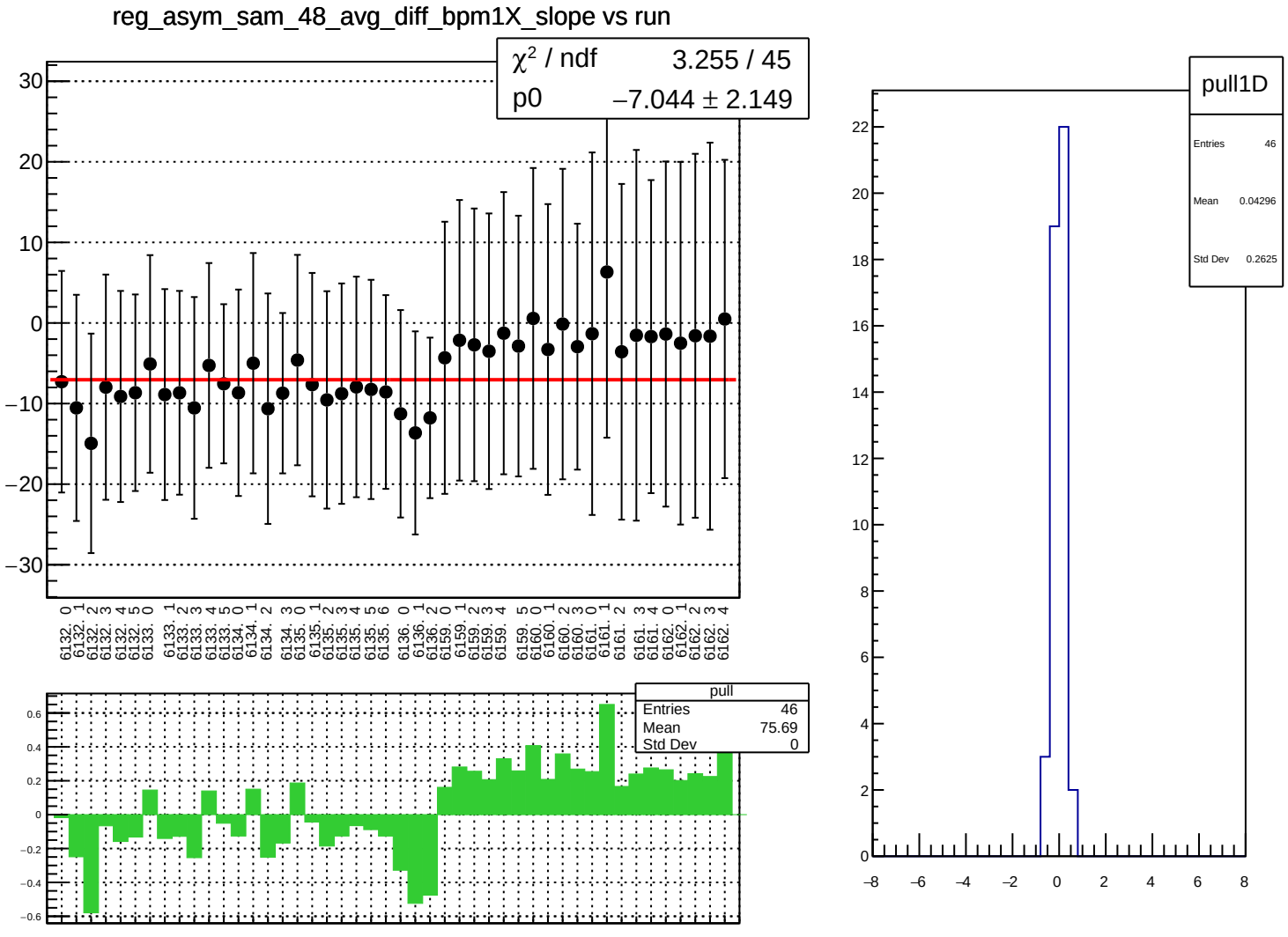

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.44 / 45
p0 −119 ± 3.402
−90
−100
−110
−120
−130
−140
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 196.1
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 46
Mean −0.004818
Std Dev 0.1769
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

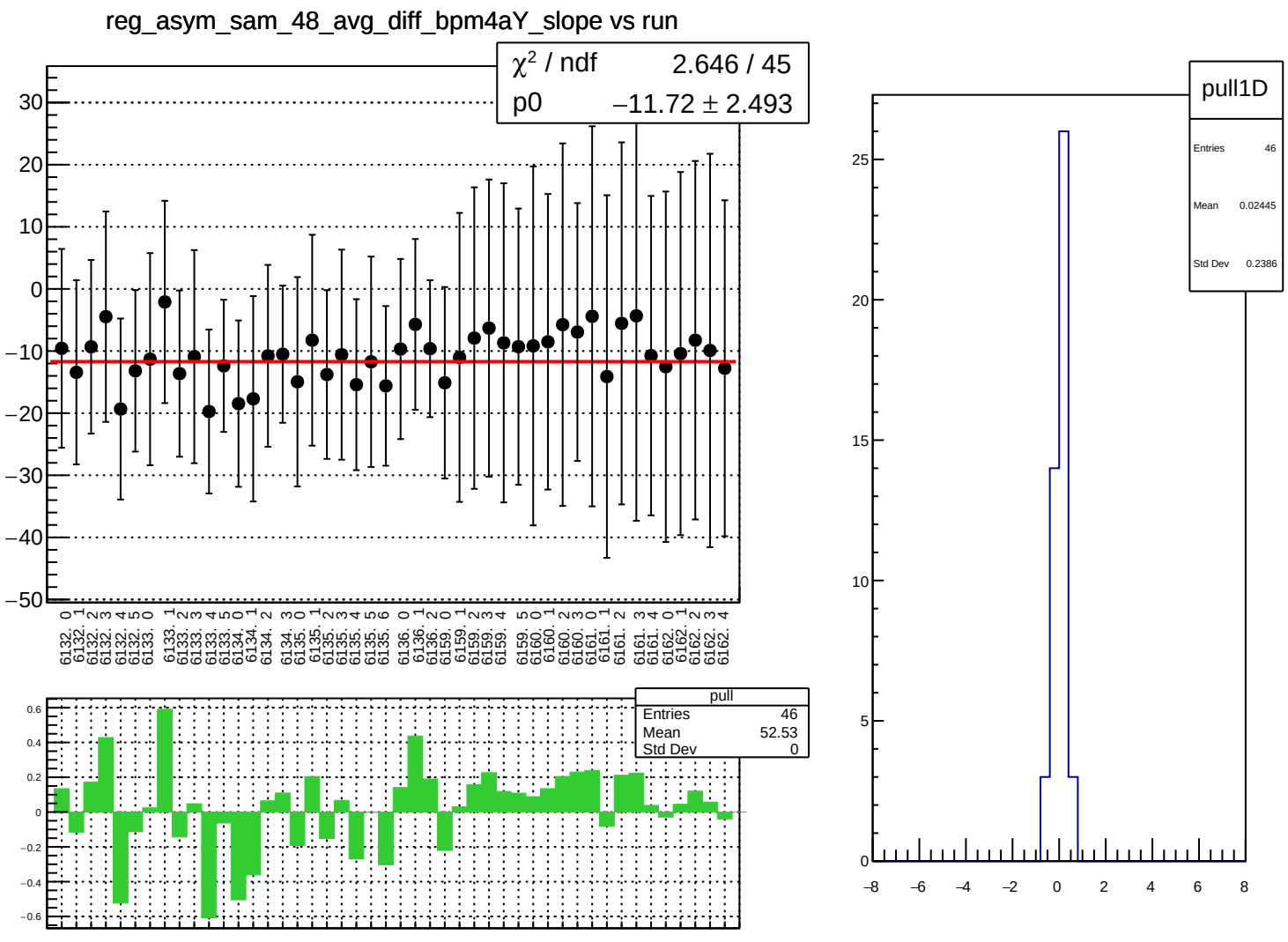

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.2 / 45
p0 −106.5 ± 3.538
pull
Entries 46
Mean 2064
Std Dev 0

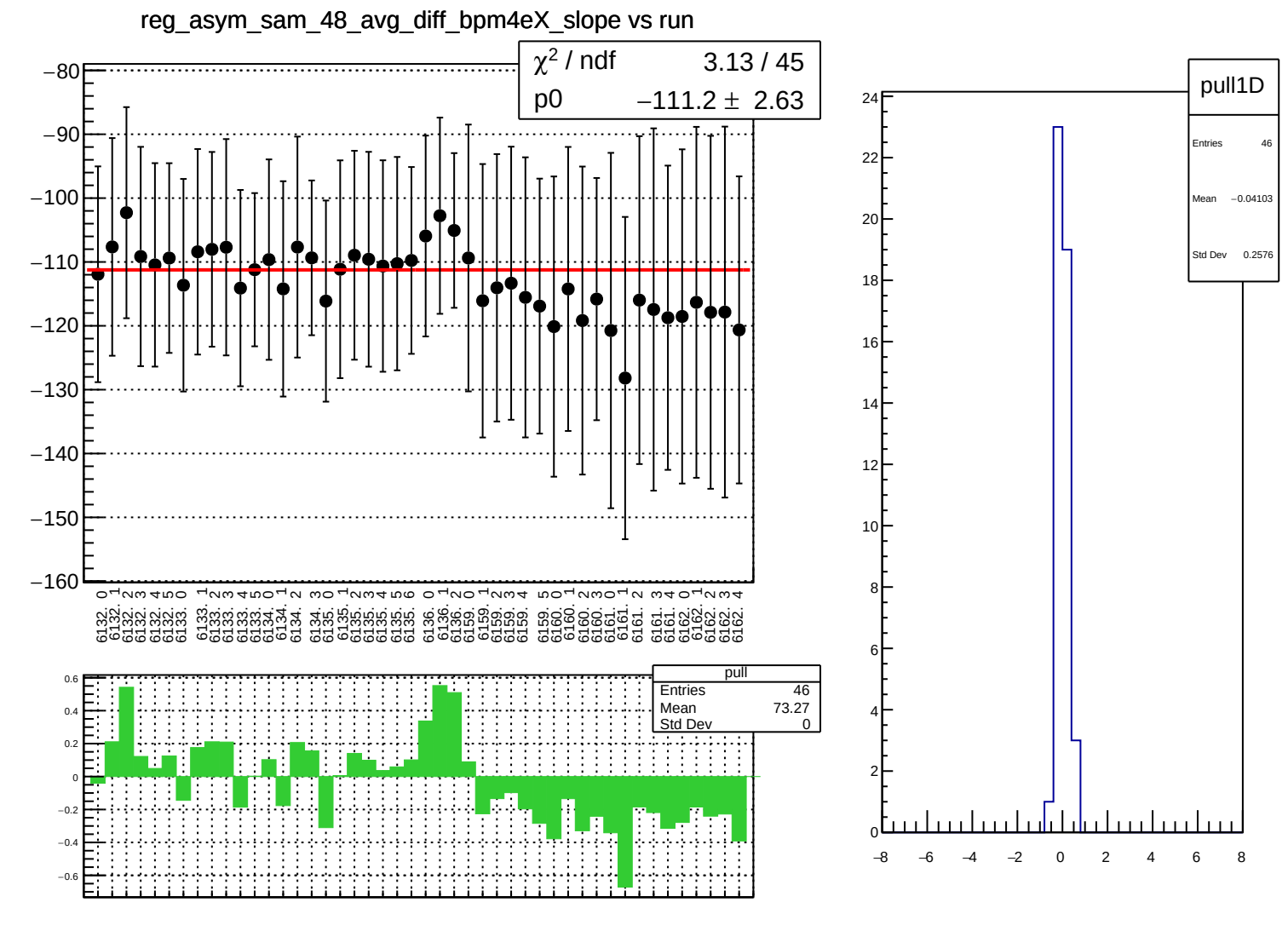

pull1D
Entries 46
Mean −0.0005521
Std Dev 0.2187

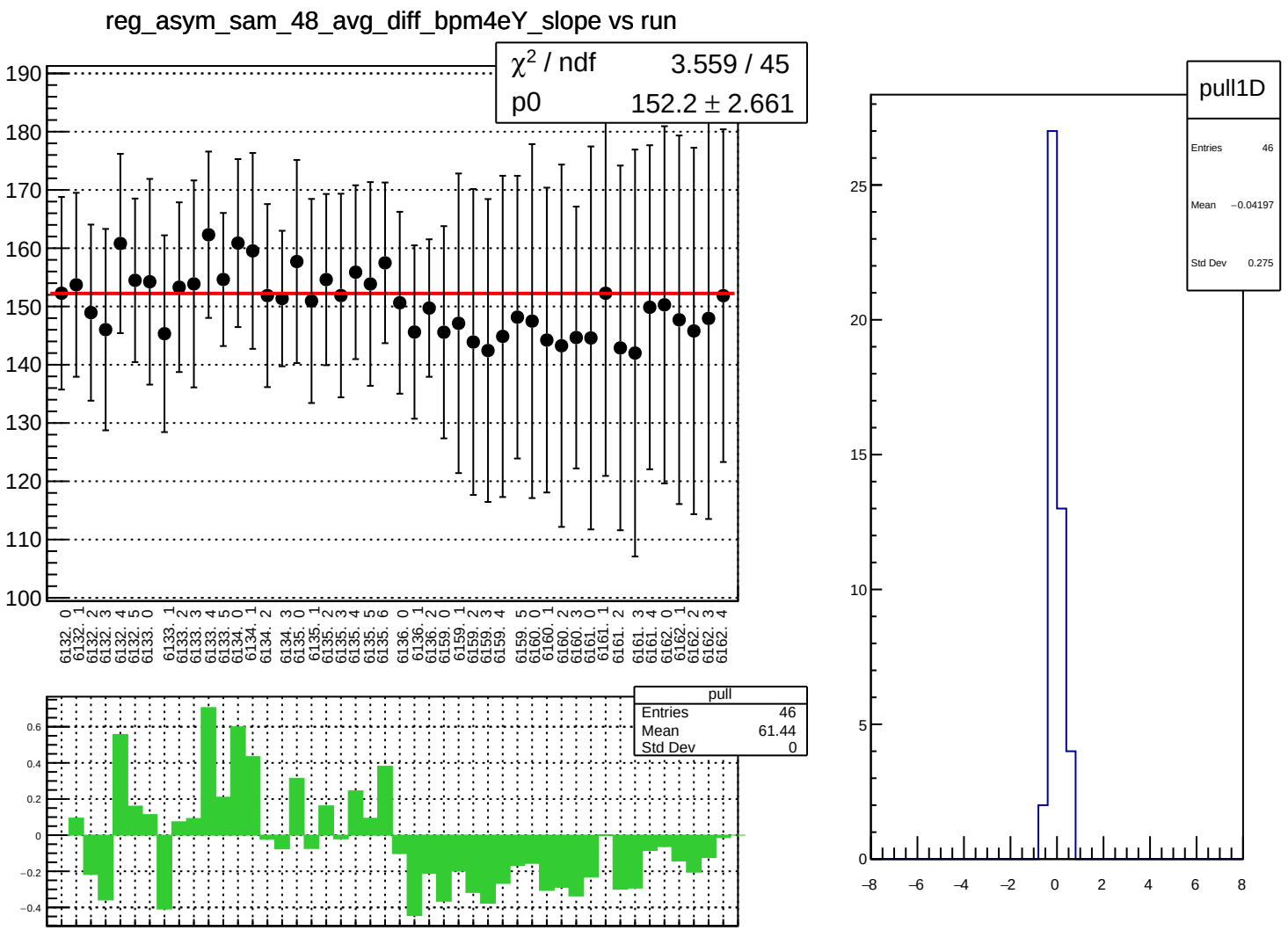

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.7003 / 45
p0 −0.02898 ± 0.2778
pull
Entries 46
Mean 161.1
Std Dev 0

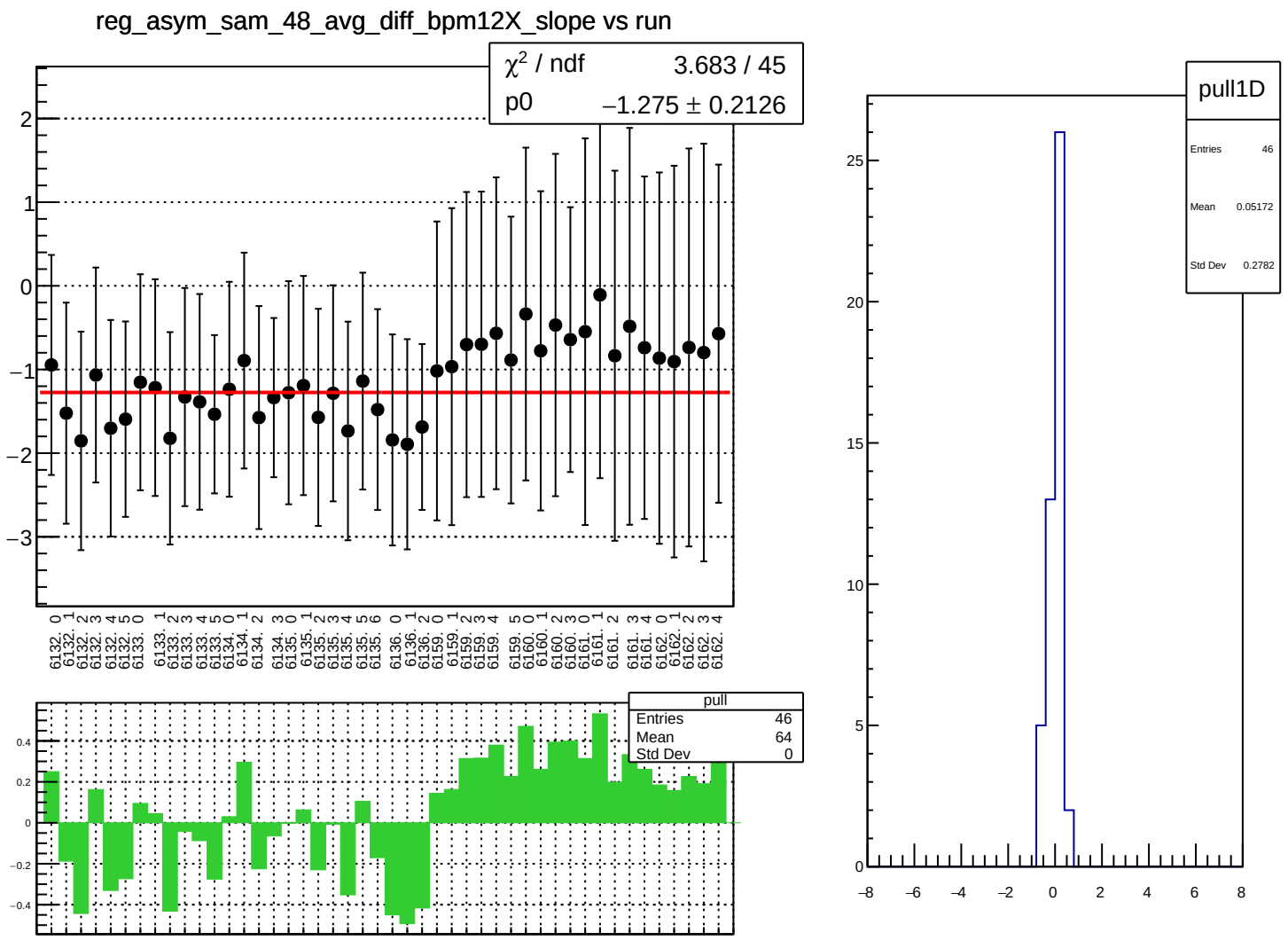

pull1D
Entries 46
Mean −0.006009
Std Dev 0.1232

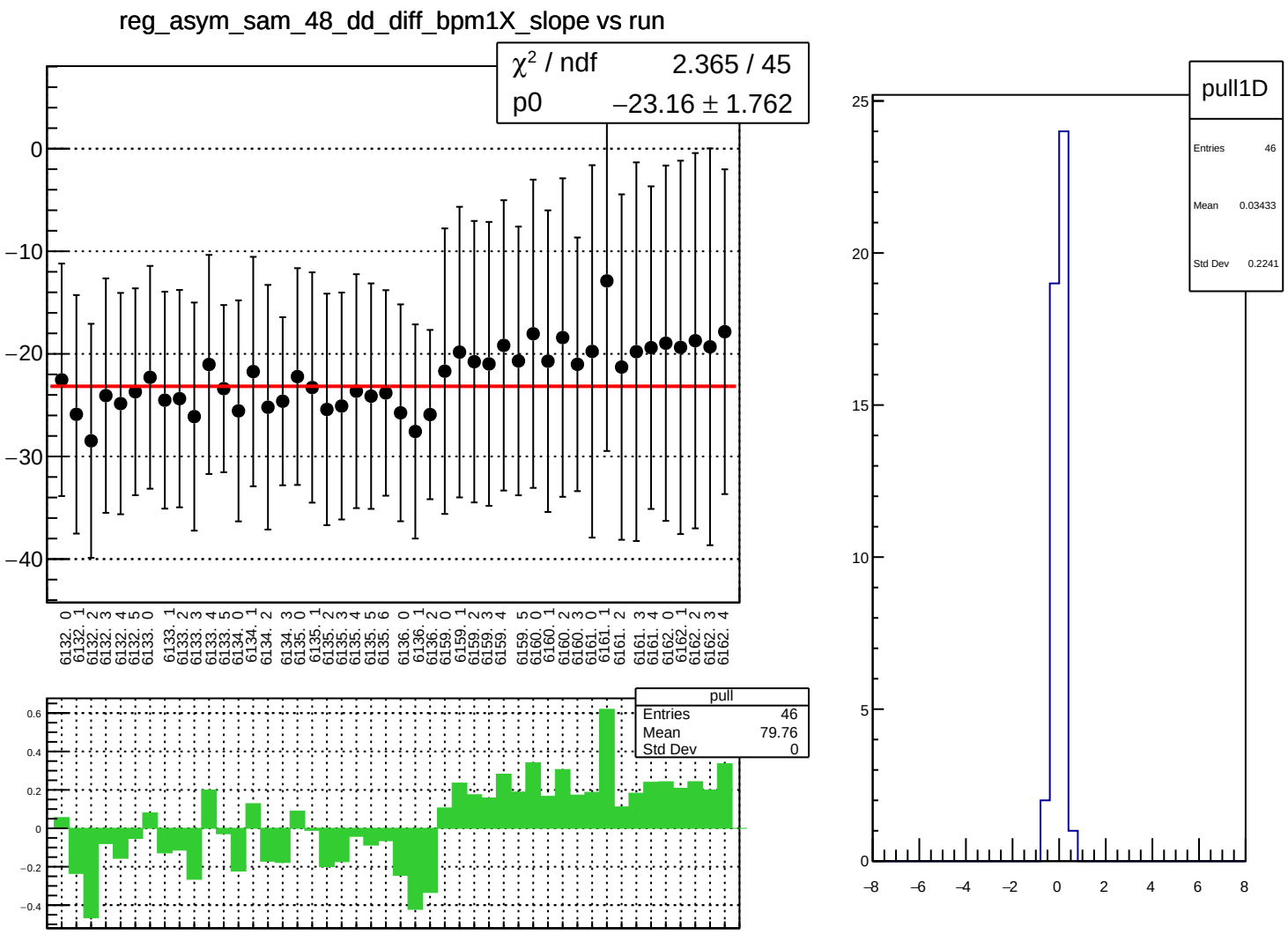

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 3.255 / 45
p0 −7.044 ± 2.149
pull
Entries 46
Mean 75.69
Std Dev 0
pull1D
Entries 46
Mean 0.04296
Std Dev 0.2625

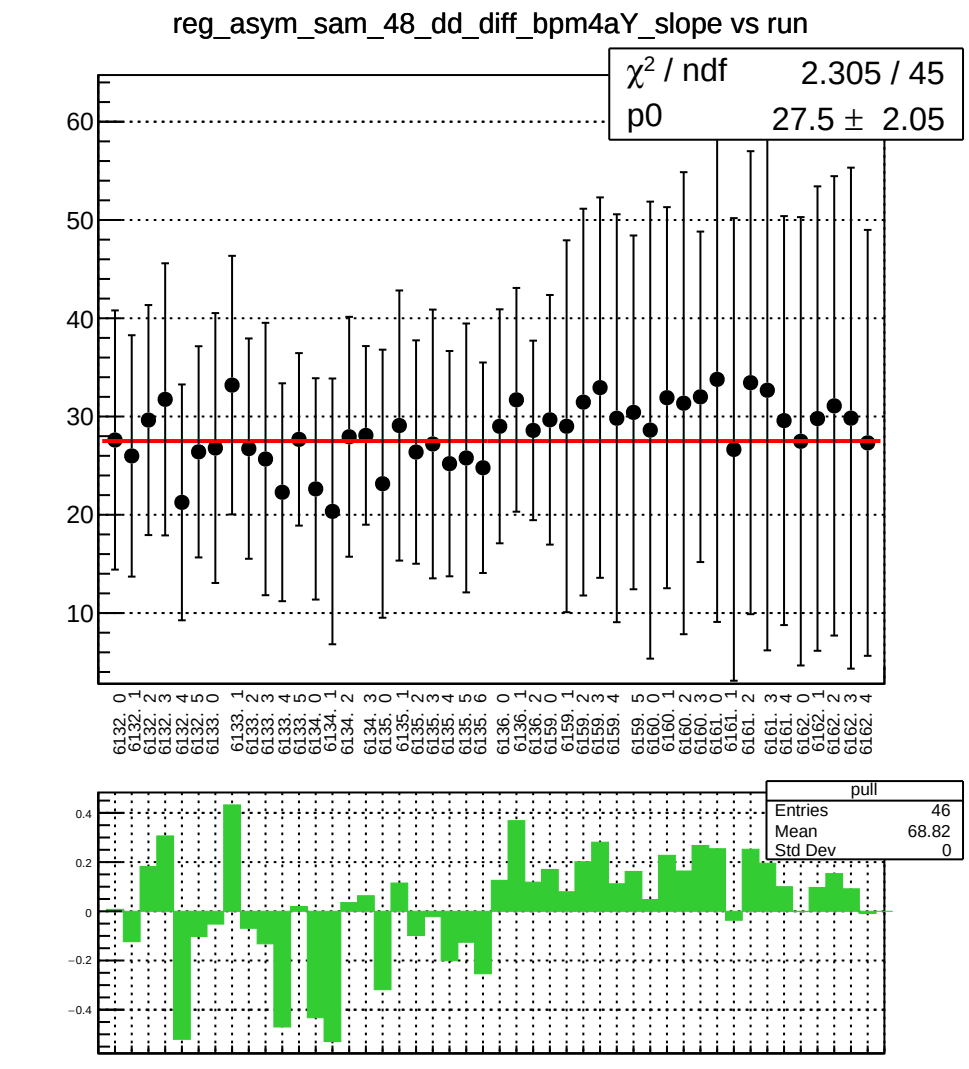

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.646 / 45
p0 −11.72 ± 2.493
pull
Entries 46
Mean 52.53
Std Dev 0
pull1D
Entries 46
Mean 0.02445
Std Dev 0.2386

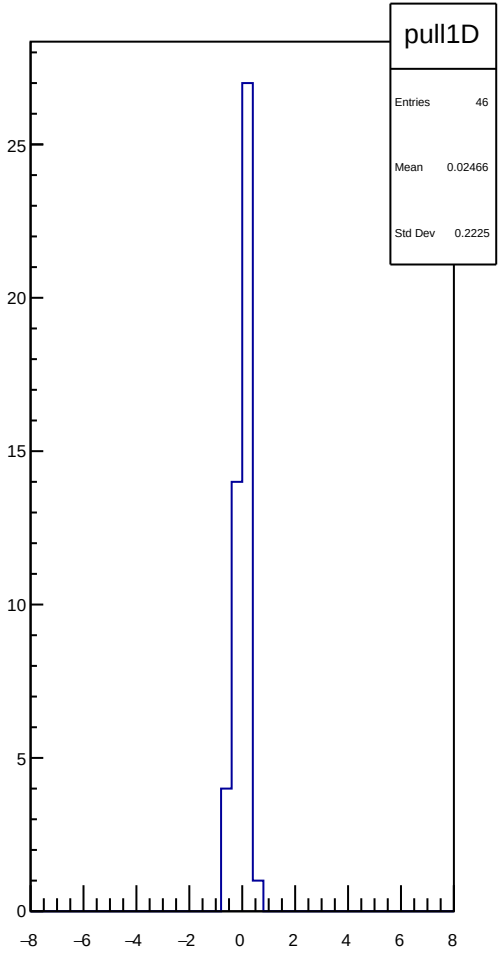

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.13 / 45
p0 −111.2 ± 2.63
pull
Entries 46
Mean 73.27
Std Dev 0
pull1D
Entries 46
Mean −0.04103
Std Dev 0.2576

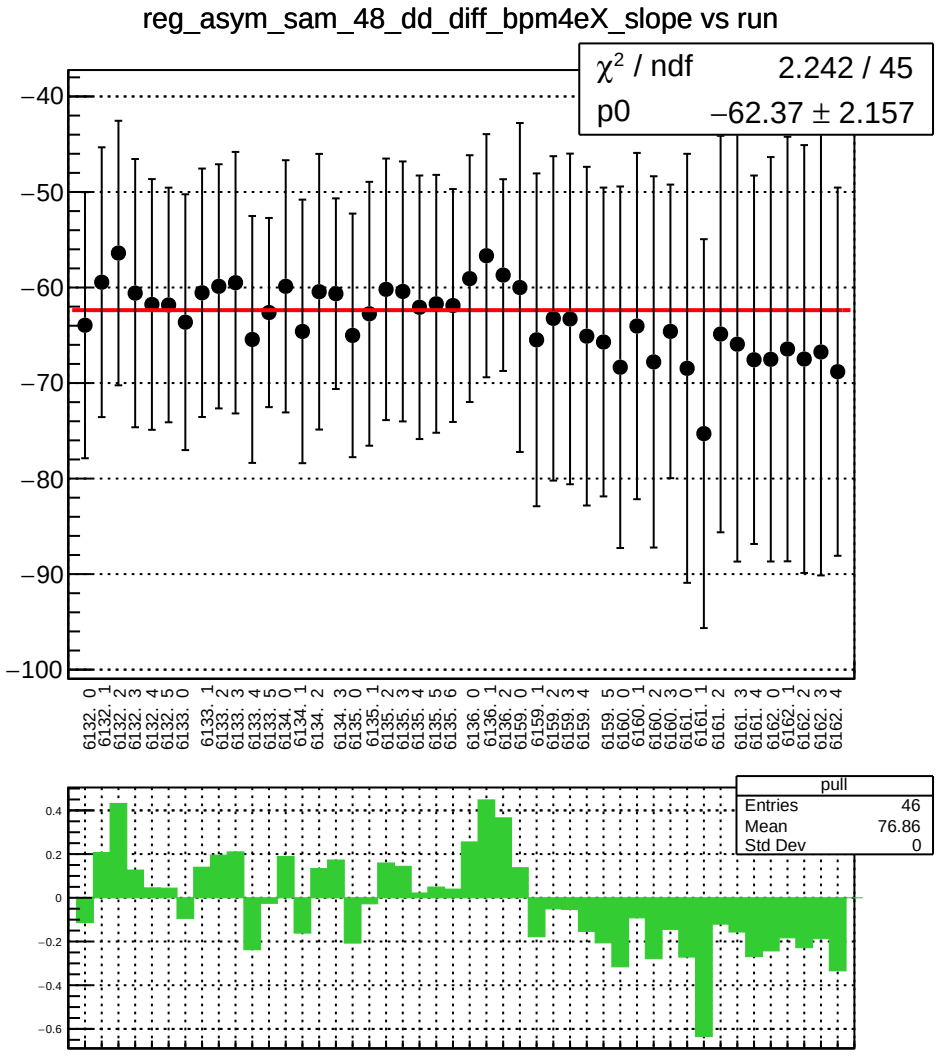

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.559 / 45
p0 152.2 ± 2.661
pull
Entries 46
Mean 61.44
Std Dev 0
pull1D
Entries 46
Mean −0.04197
Std Dev 0.275

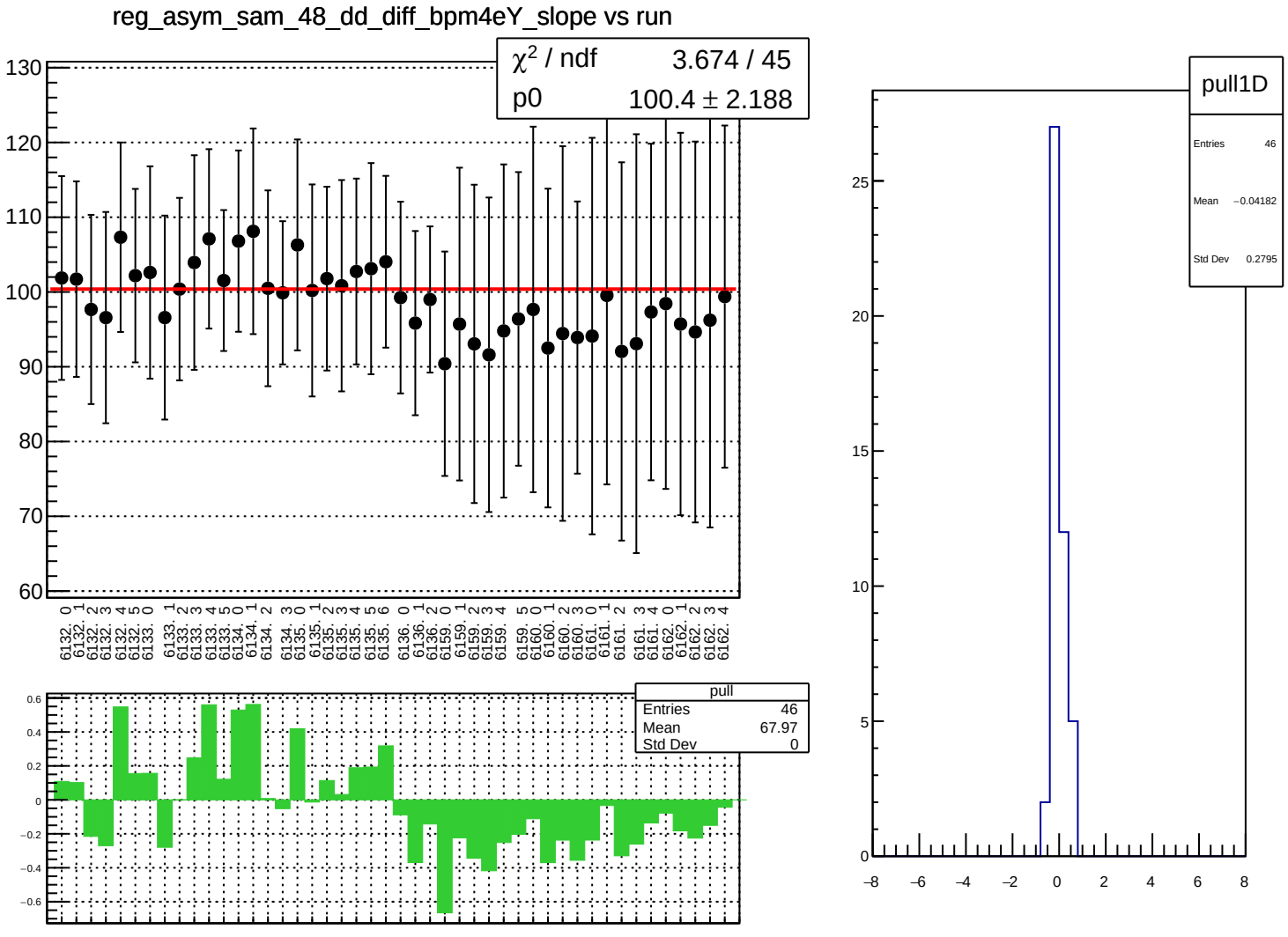

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 3.683 / 45
p0 −1.275 ± 0.2126
pull
Entries 46
Mean 64
Std Dev 0
pull1D
Entries 46
Mean 0.05172
Std Dev 0.2782

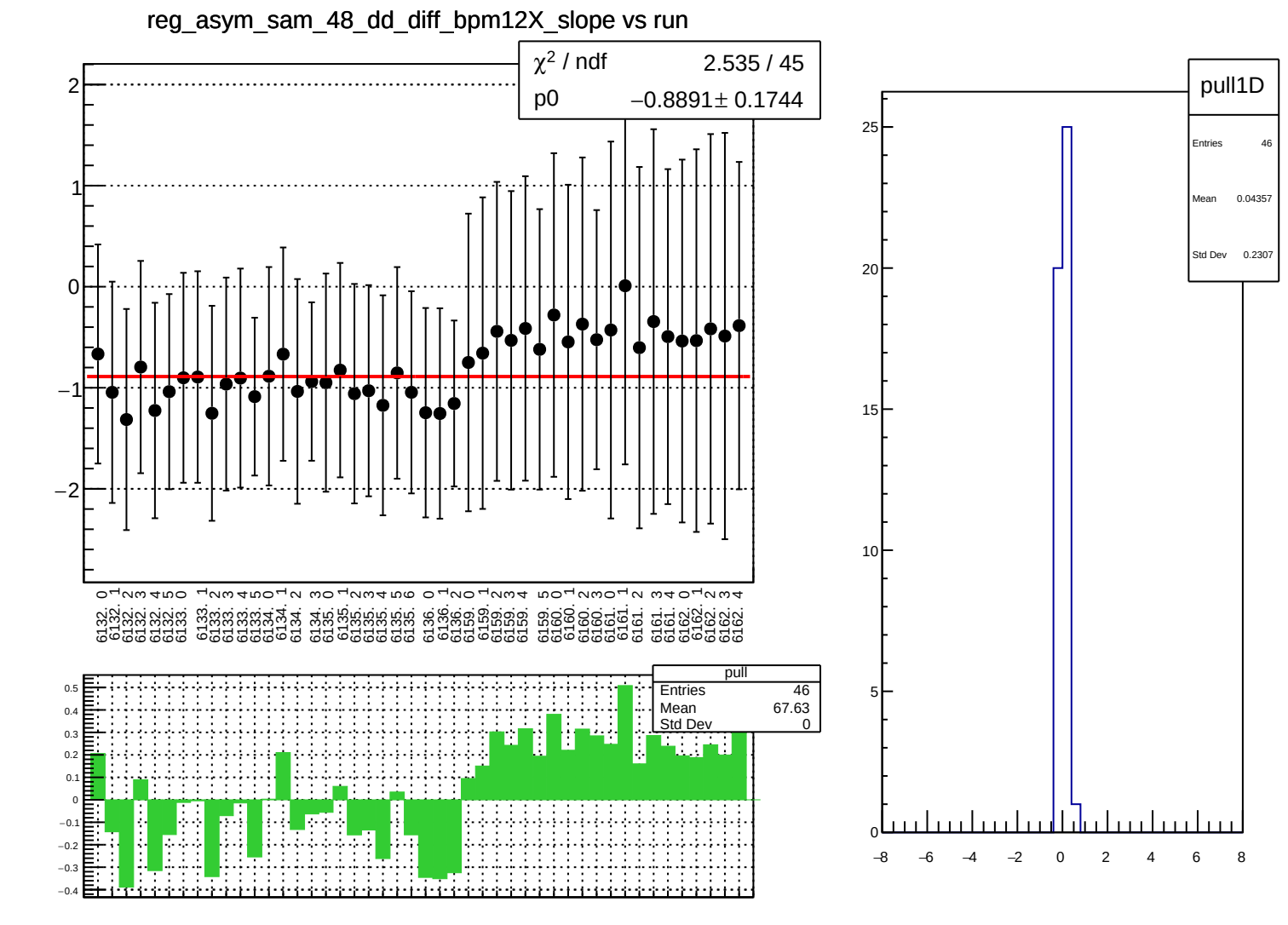

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.365 / 45
p0 −23.16 ± 1.762
0
−10
−20
−30
−40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 79.76
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 46
Mean 0.03433
Std Dev 0.2241
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

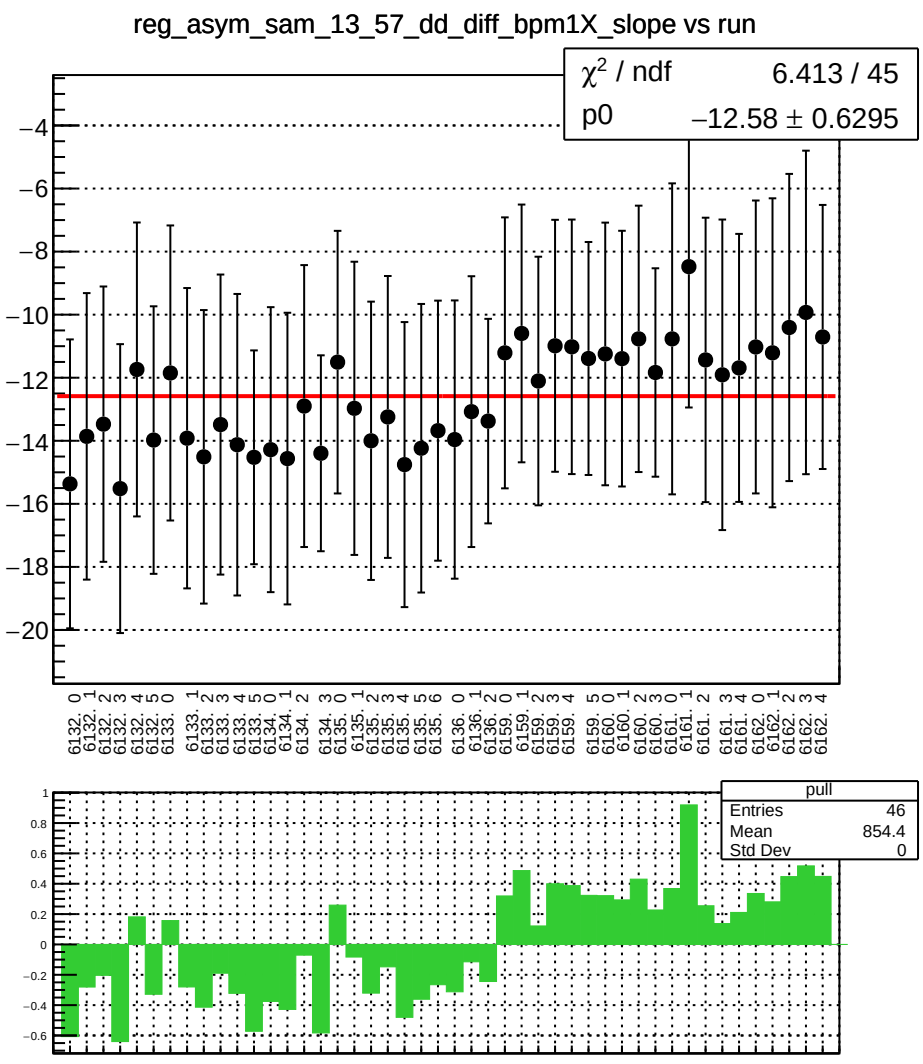

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.305 / 45
p0 27.5 ± 2.05
pull
Entries 46
Mean 68.82
Std Dev 0

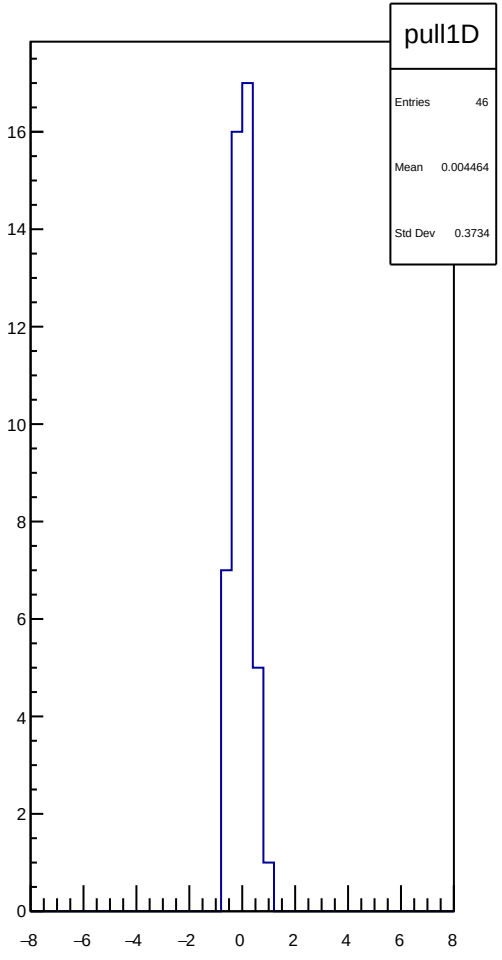

pull1D
Entries 46
Mean 0.02466
Std Dev 0.2225

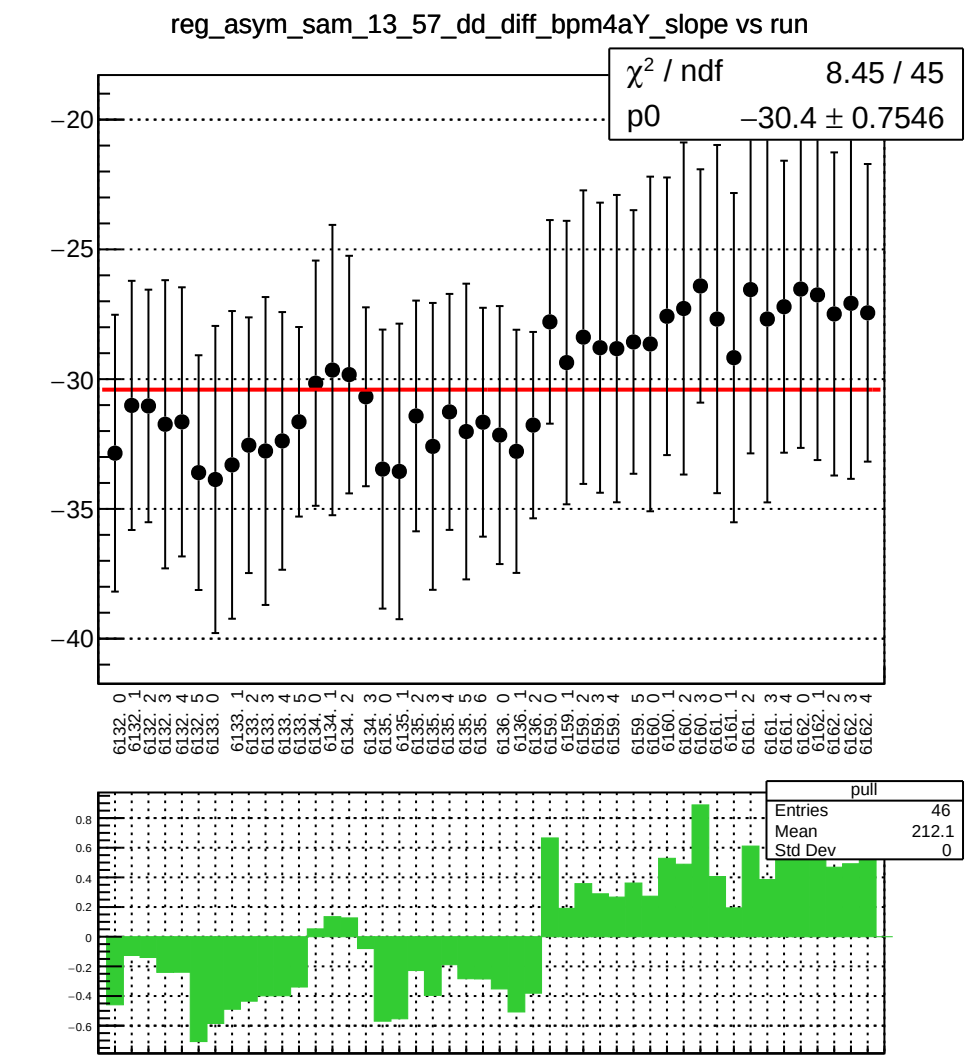

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.242 / 45
p0 −62.37 ± 2.157
−40
−50
−60
−70
−80
−90
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 76.86
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 46
Mean −0.03151
Std Dev 0.2185
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

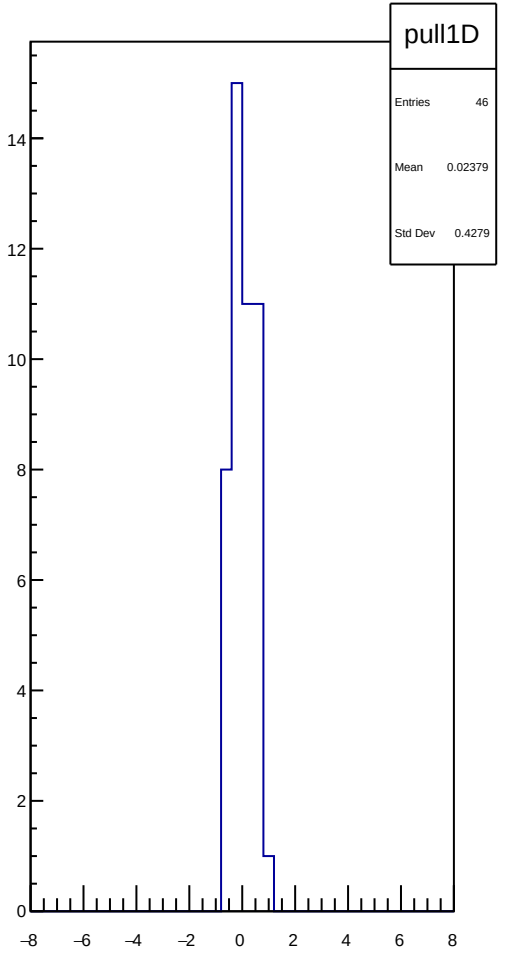

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.674 / 45
p0 100.4 ± 2.188
pull
Entries 46
Mean 67.97
Std Dev 0
pull1D
Entries 46
Mean −0.04182
Std Dev 0.2795

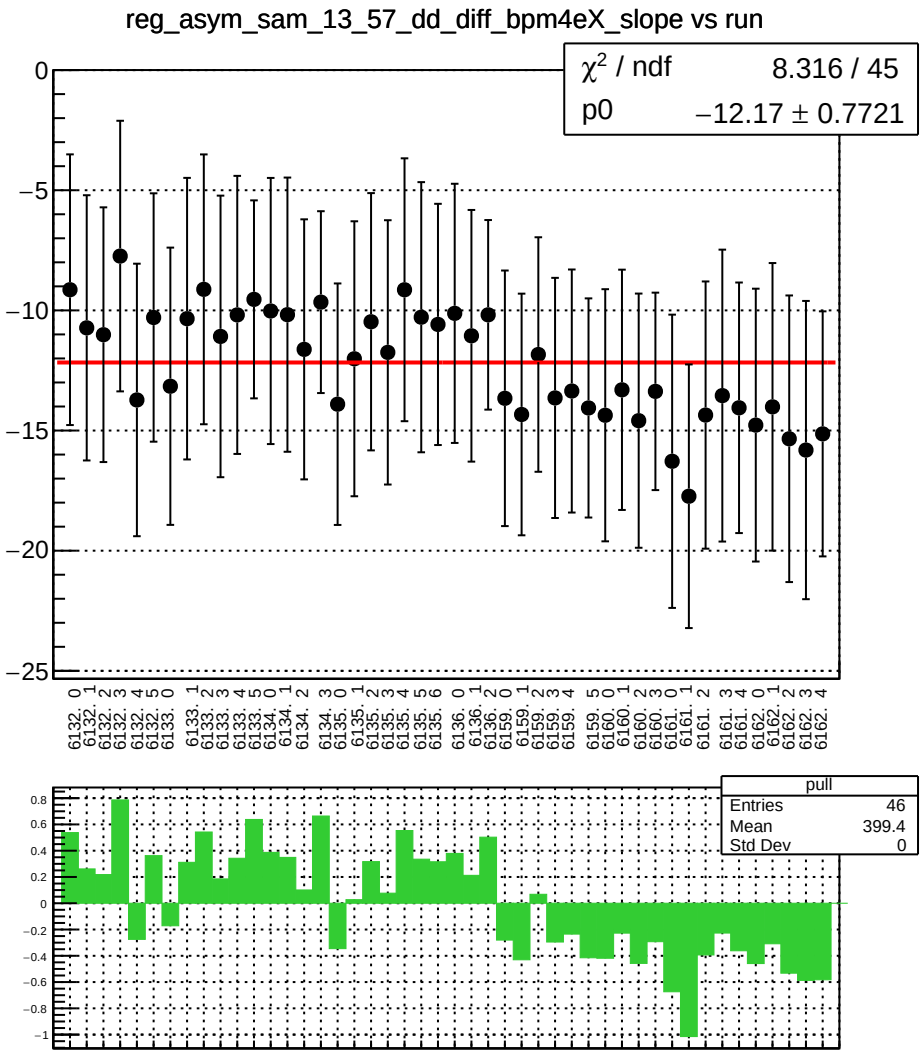

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 2.535 / 45
p0 −0.8891± 0.1744
pull
Entries 46
Mean 67.63
Std Dev 0
pull1D
Entries 46
Mean 0.04357
Std Dev 0.2307

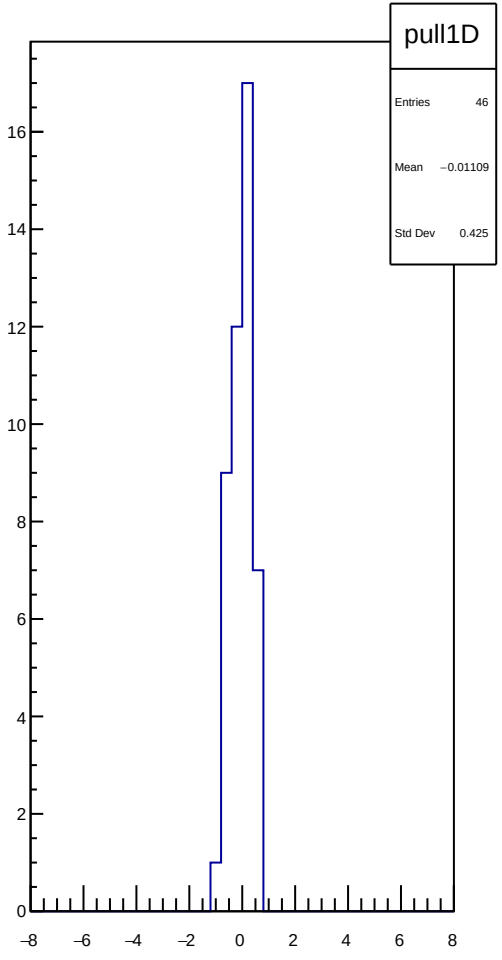

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 6.413 / 45
p0 −12.58 ± 0.6295
pull
Entries 46
Mean 854.4
Std Dev 0

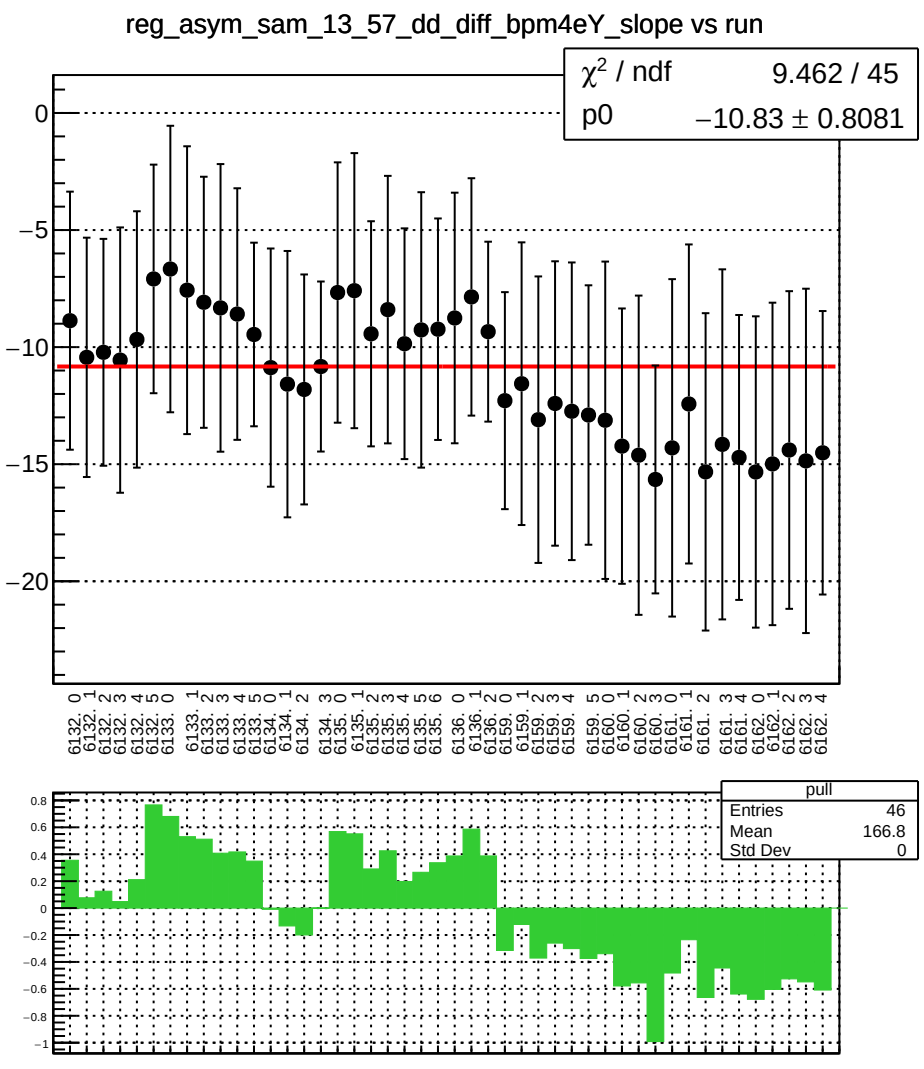

pull1D
Entries 46
Mean 0.004464
Std Dev 0.3734

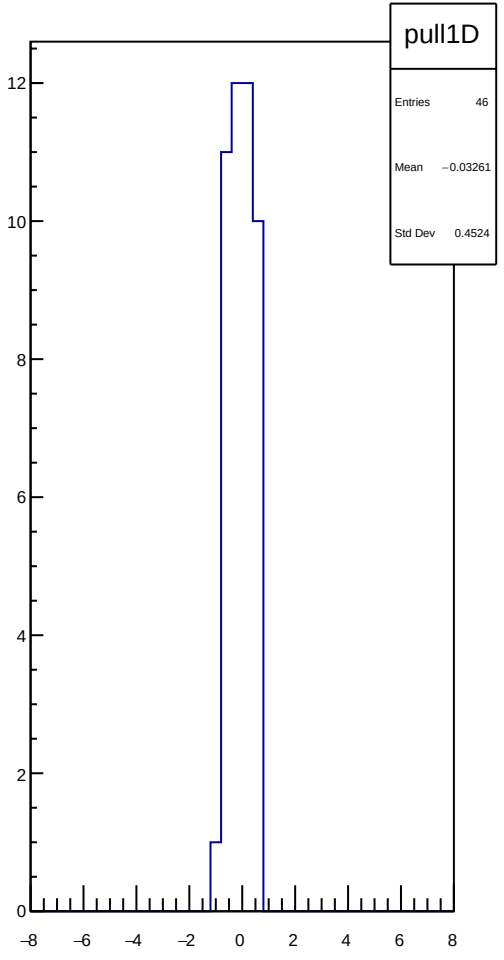

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.45 / 45
p0 −30.4 ± 0.7546
−20
−25
−30
−35
−40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 212.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

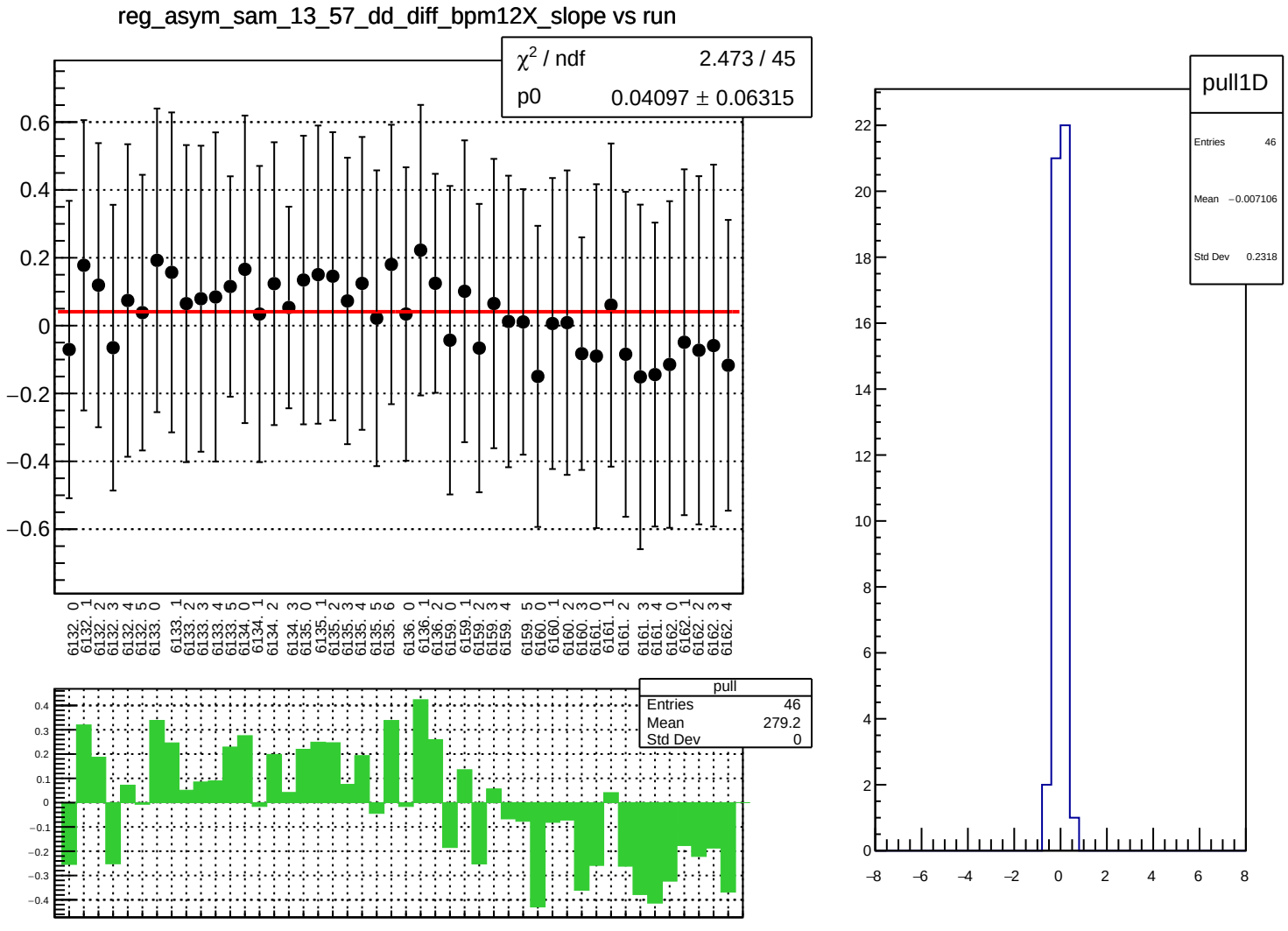

pull1D
Entries 46
Mean 0.02379
Std Dev 0.4279
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

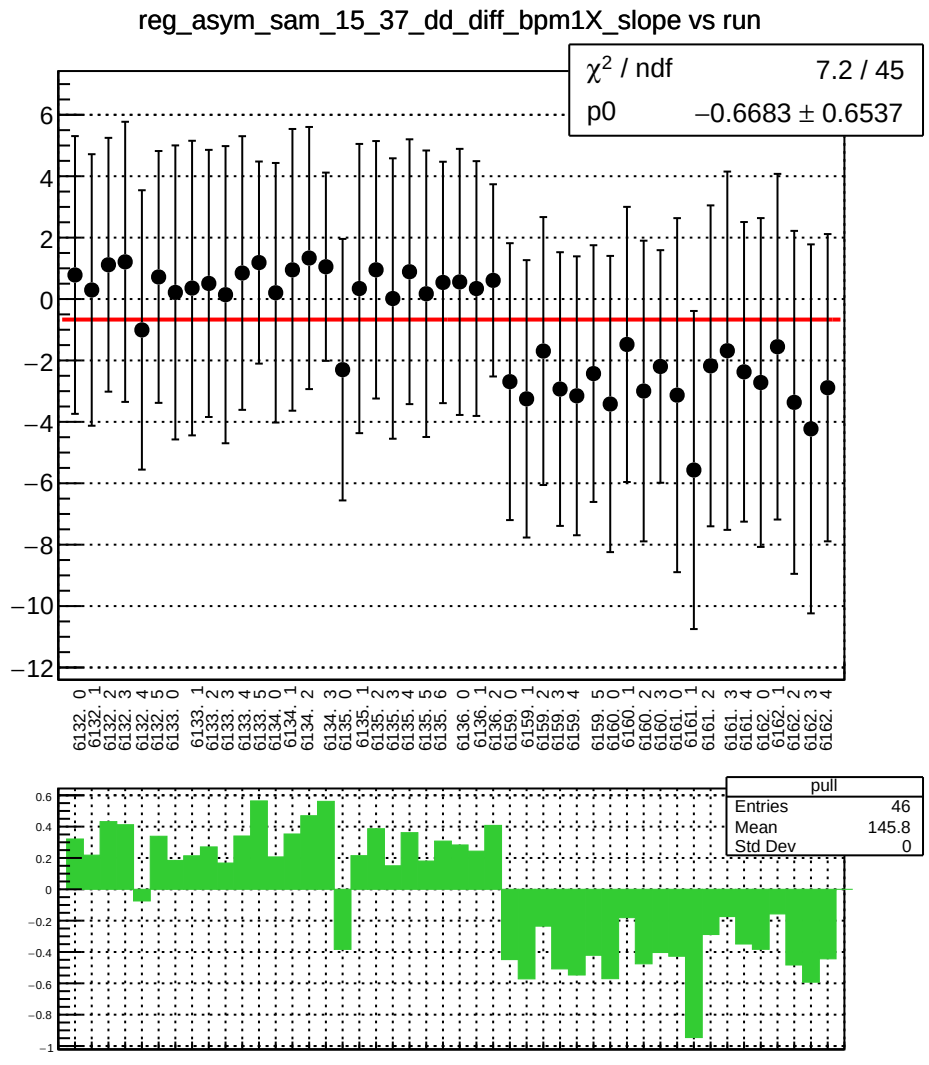

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.316 / 45
p0 −12.17 ± 0.7721
pull
Entries 46
Mean 399.4
Std Dev 0

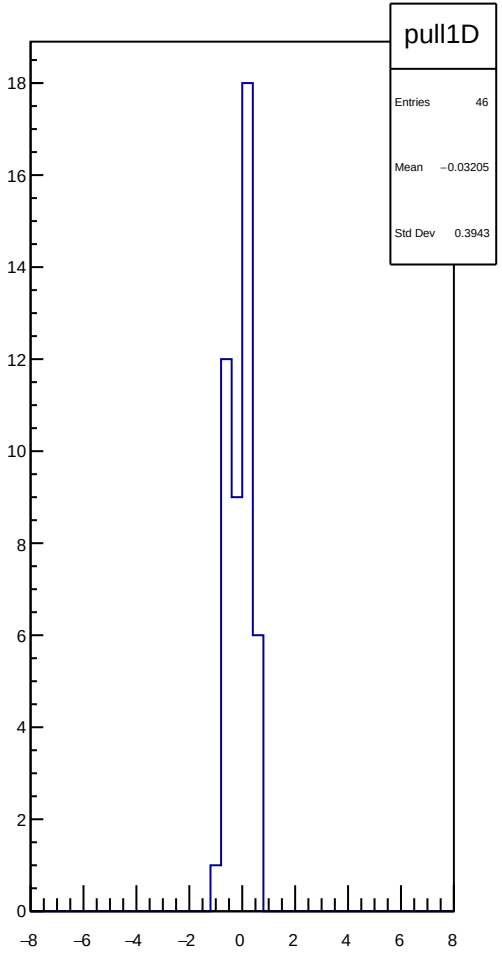

pull1D
Entries 46
Mean −0.01109
Std Dev 0.425

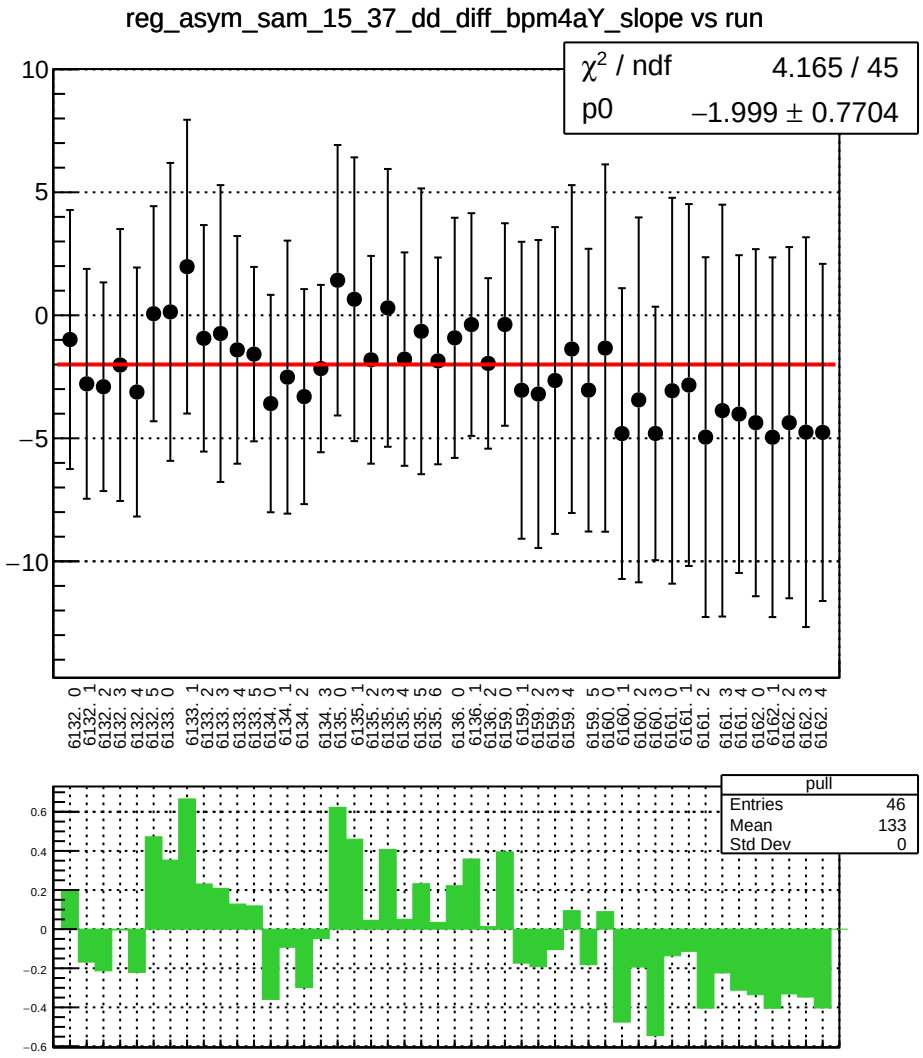

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.462 / 45
p0 −10.83 ± 0.8081
pull
Entries 46
Mean 166.8
Std Dev 0

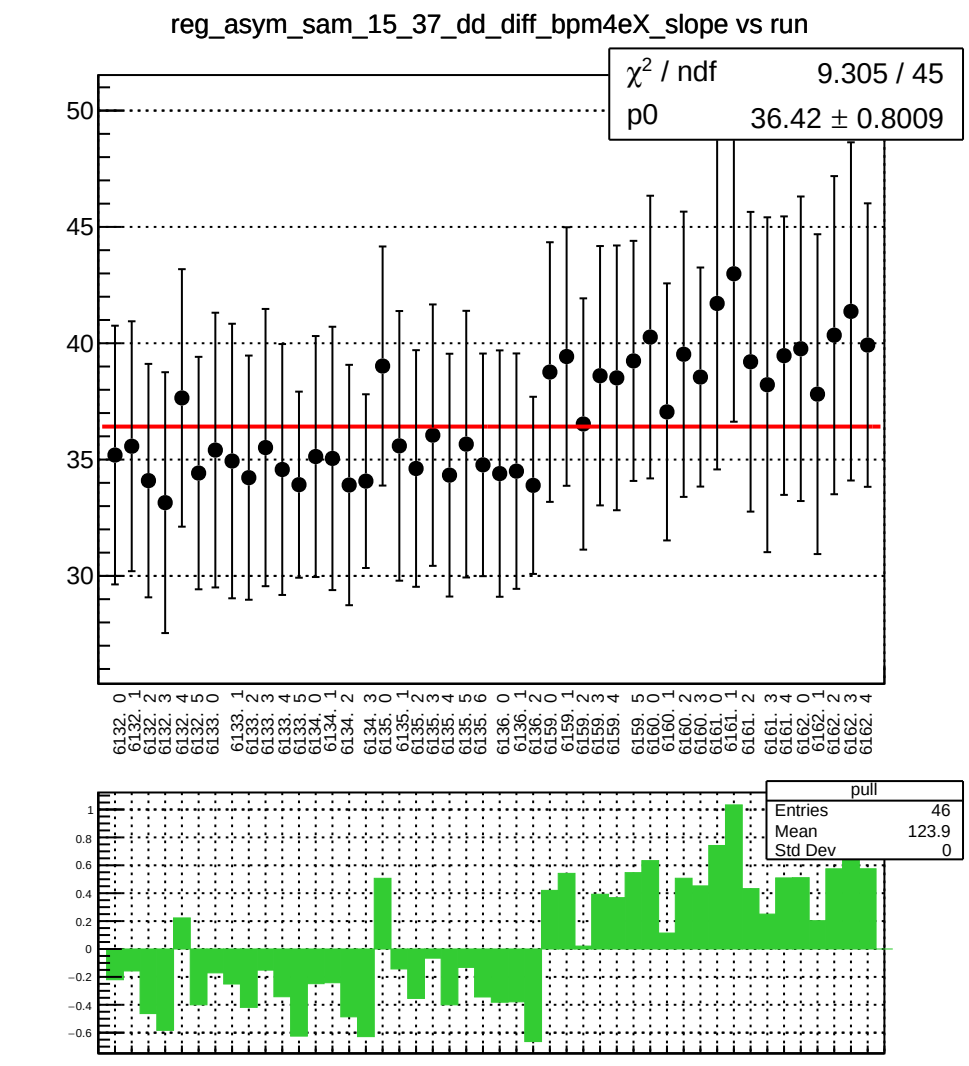

pull1D
Entries 46
Mean −0.03261
Std Dev 0.4524

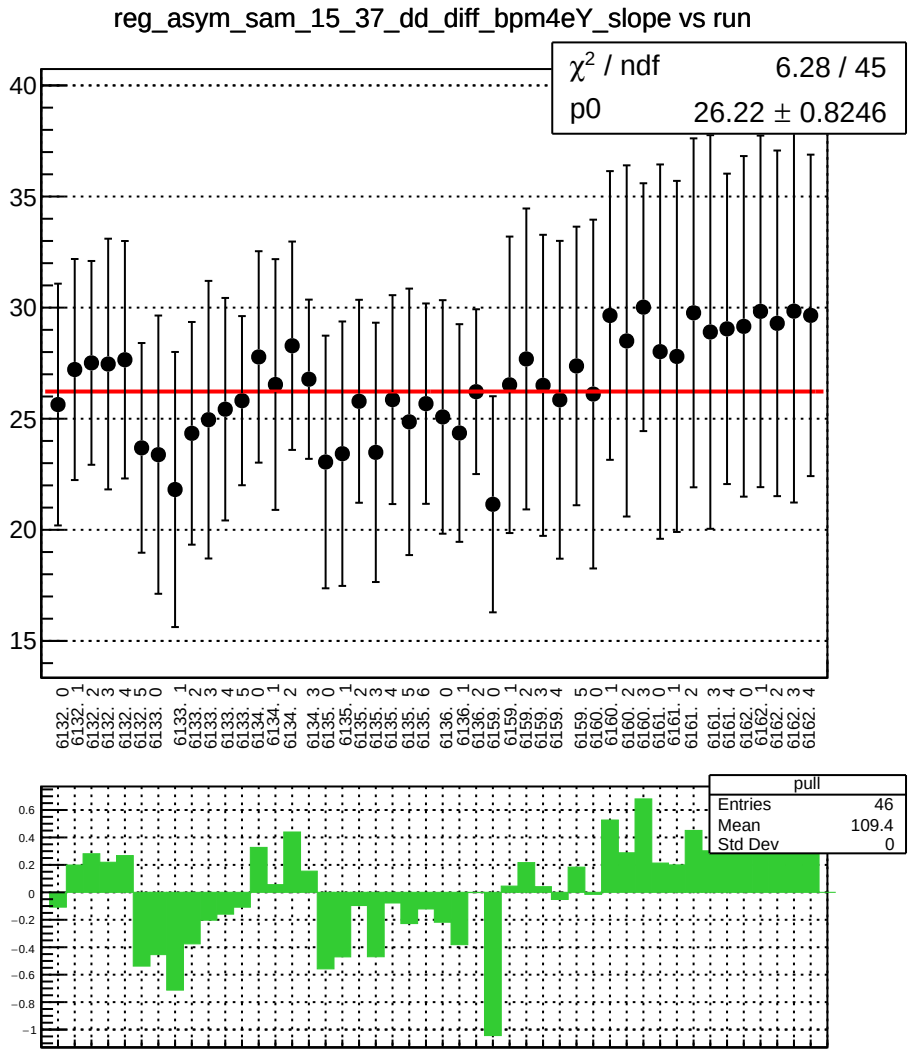

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 2.473 / 45
p0 0.04097 ± 0.06315
pull
Entries 46
Mean 279.2
Std Dev 0
pull1D
Entries 46
Mean −0.007106
Std Dev 0.2318

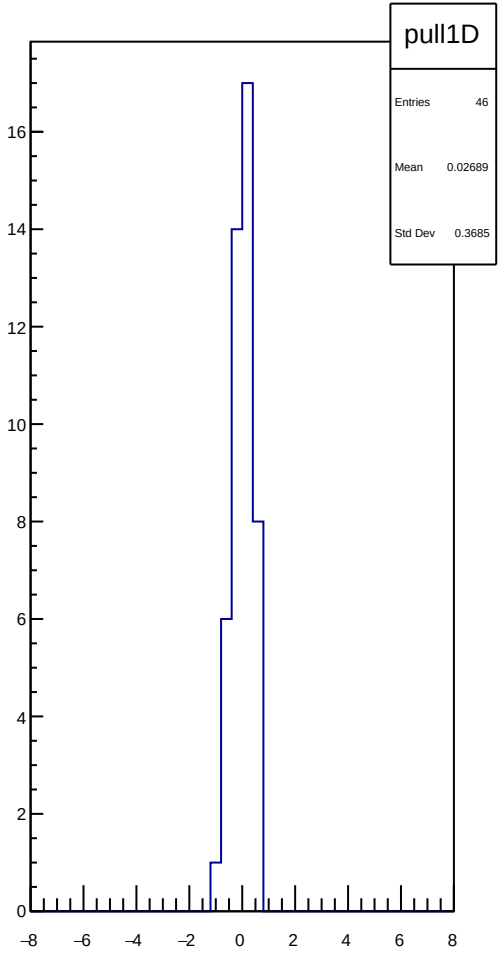

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 7.2 / 45
p0 −0.6683 ± 0.6537
pull
Entries 46
Mean 145.8
Std Dev 0

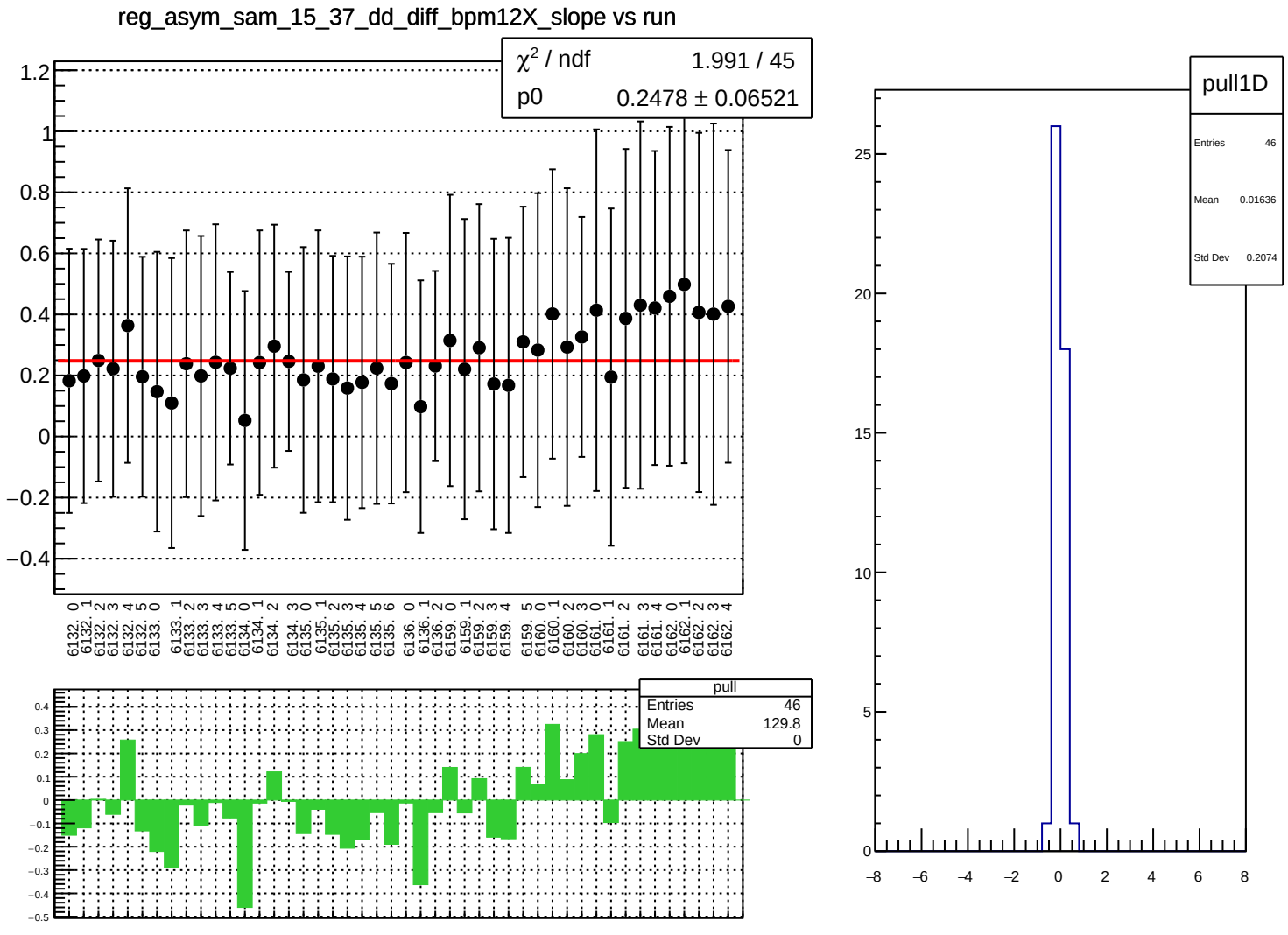

pull1D
Entries 46
Mean −0.03205
Std Dev 0.3943

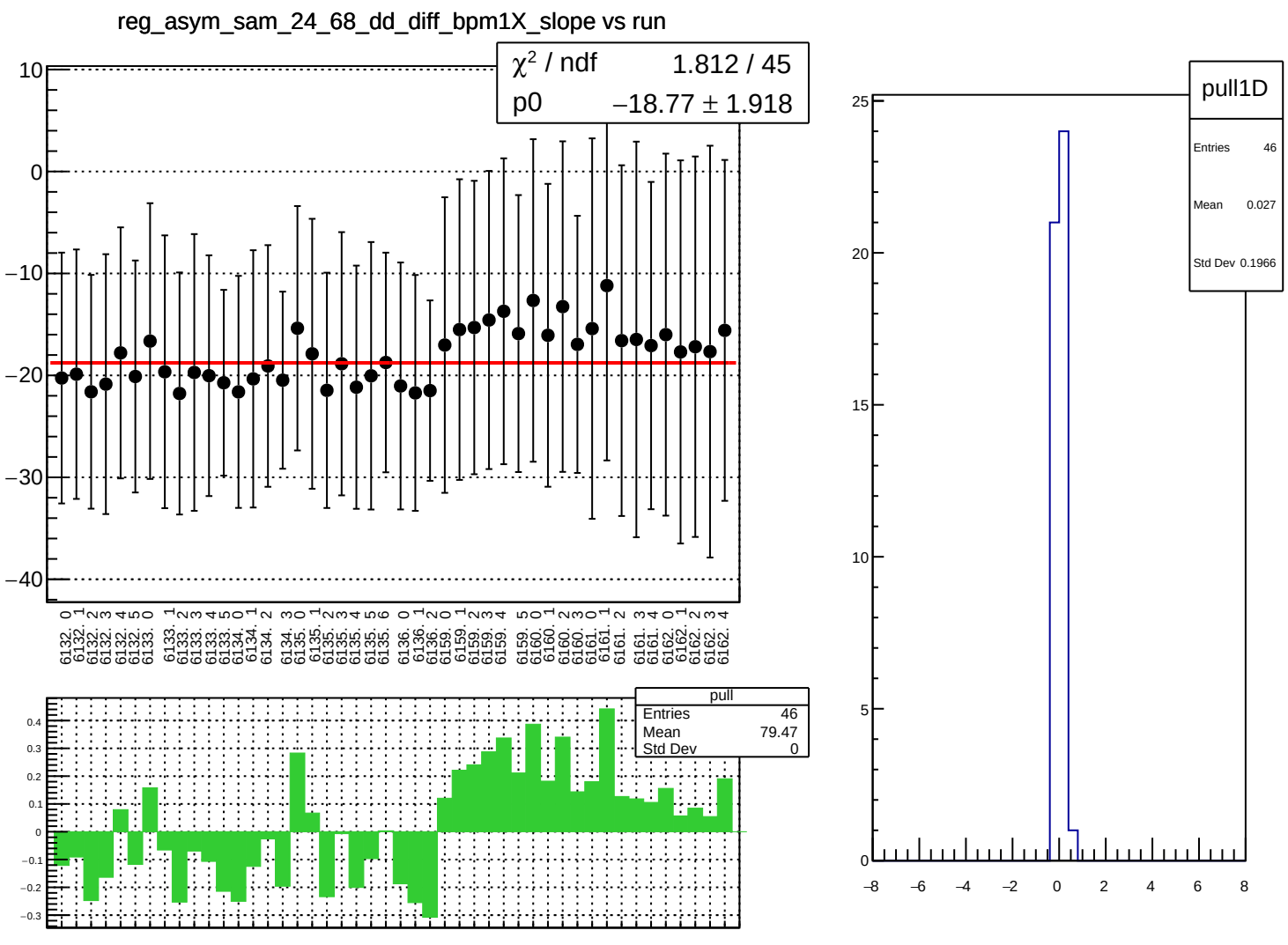

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.165 / 45
p0 −1.999 ± 0.7704
pull
Entries 46
Mean 133
Std Dev 0
pull1D
Entries 46
Mean −0.0193
Std Dev 0.3003

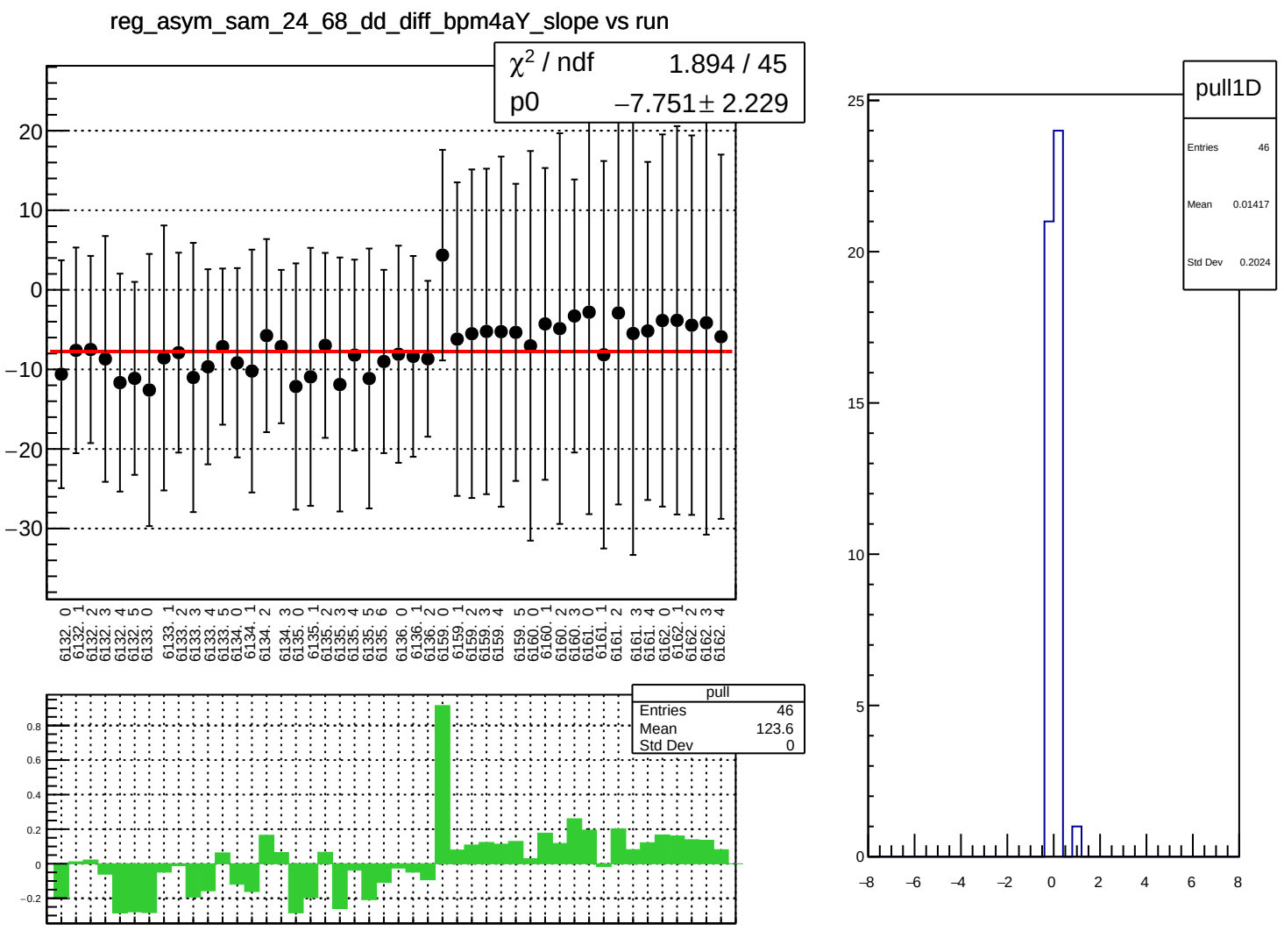

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.305 / 45
p0 36.42 ± 0.8009
50
45
40
35
30
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 123.9
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 46
Mean 0.04322
Std Dev 0.4477
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

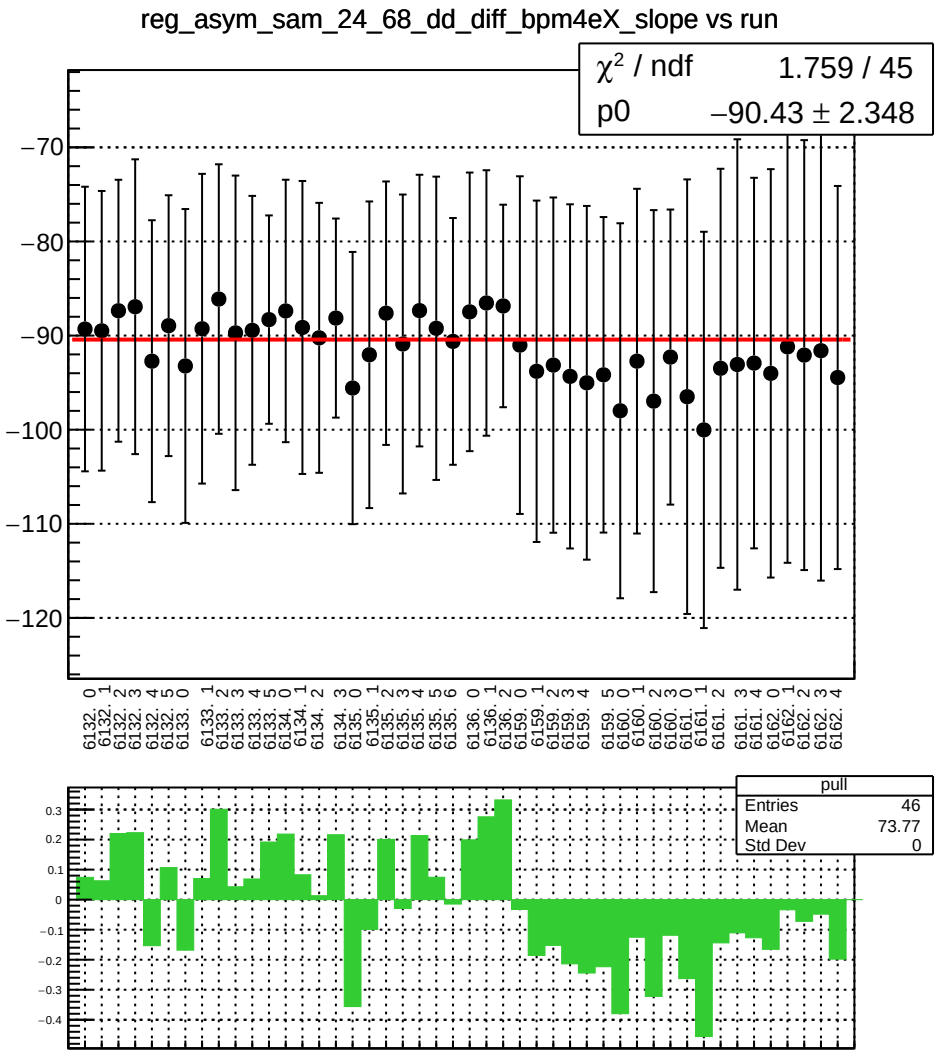

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.28 / 45
p0 26.22 ± 0.8246
pull
Entries 46
Mean 109.4
Std Dev 0

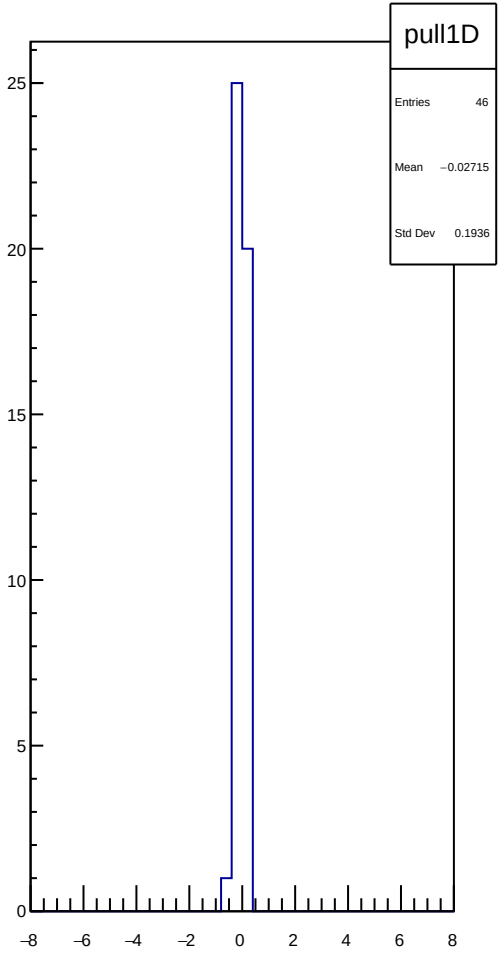

pull1D
Entries 46
Mean 0.02689
Std Dev 0.3685

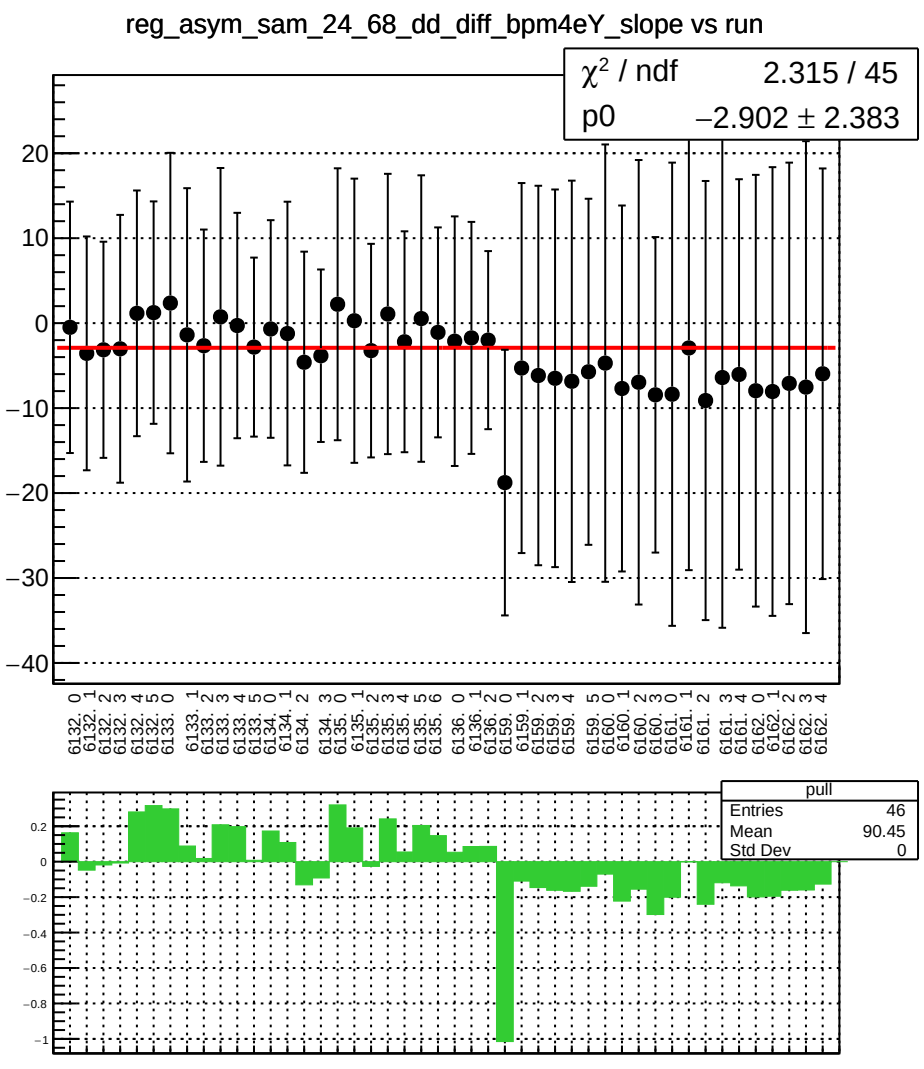

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 1.991 / 45
p0 0.2478 ± 0.06521
pull
Entries 46
Mean 129.8
Std Dev 0
pull1D
Entries 46
Mean 0.01636
Std Dev 0.2074

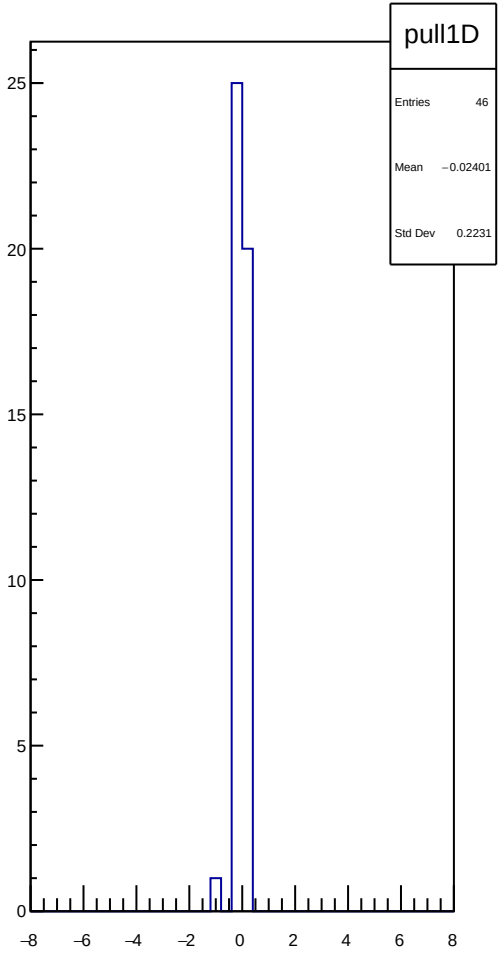

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 1.812 / 45
p0 −18.77 ± 1.918
pull
Entries 46
Mean 79.47
Std Dev 0
pull1D
Entries 46
Mean 0.027
Std Dev 0.1966

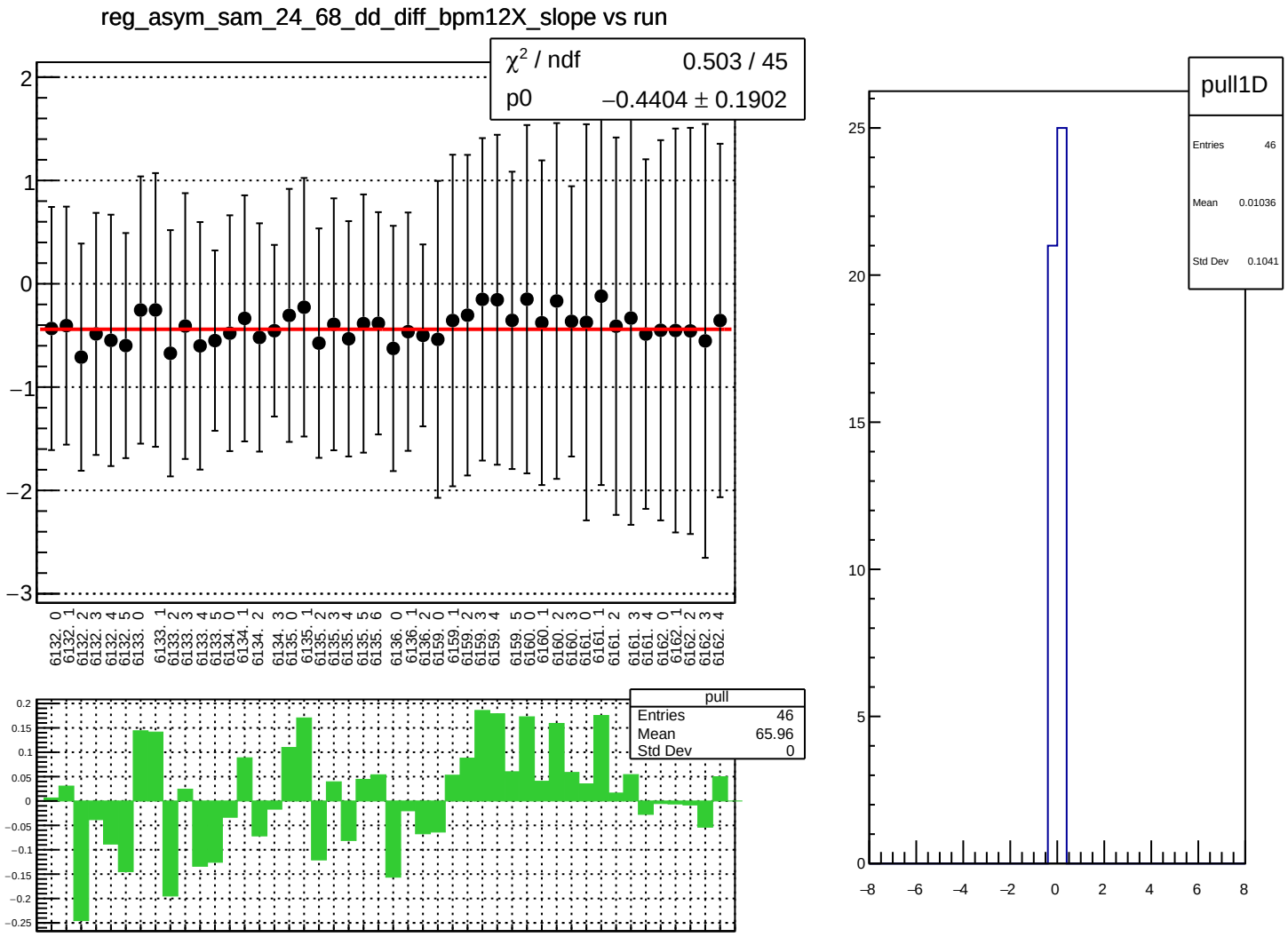

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.894 / 45
p0 −7.751± 2.229
pull
Entries 46
Mean 123.6
Std Dev 0
pull1D
Entries 46
Mean 0.01417
Std Dev 0.2024

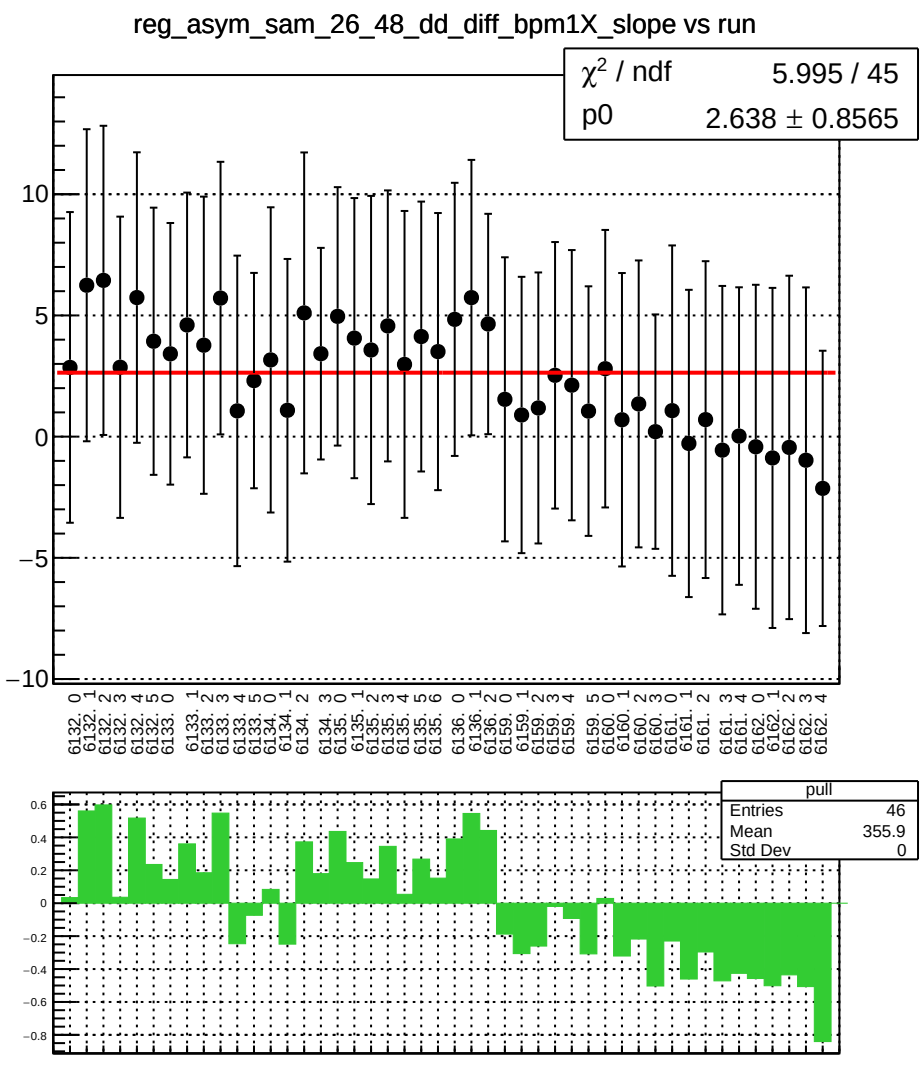

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.759 / 45
p0 −90.43 ± 2.348
pull
Entries 46
Mean 73.77
Std Dev 0

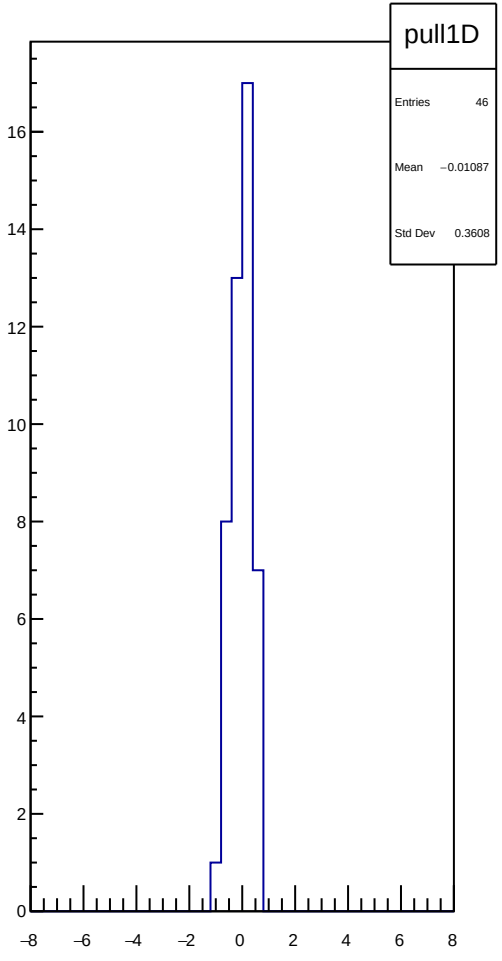

pull1D
Entries 46
Mean −0.02715
Std Dev 0.1936

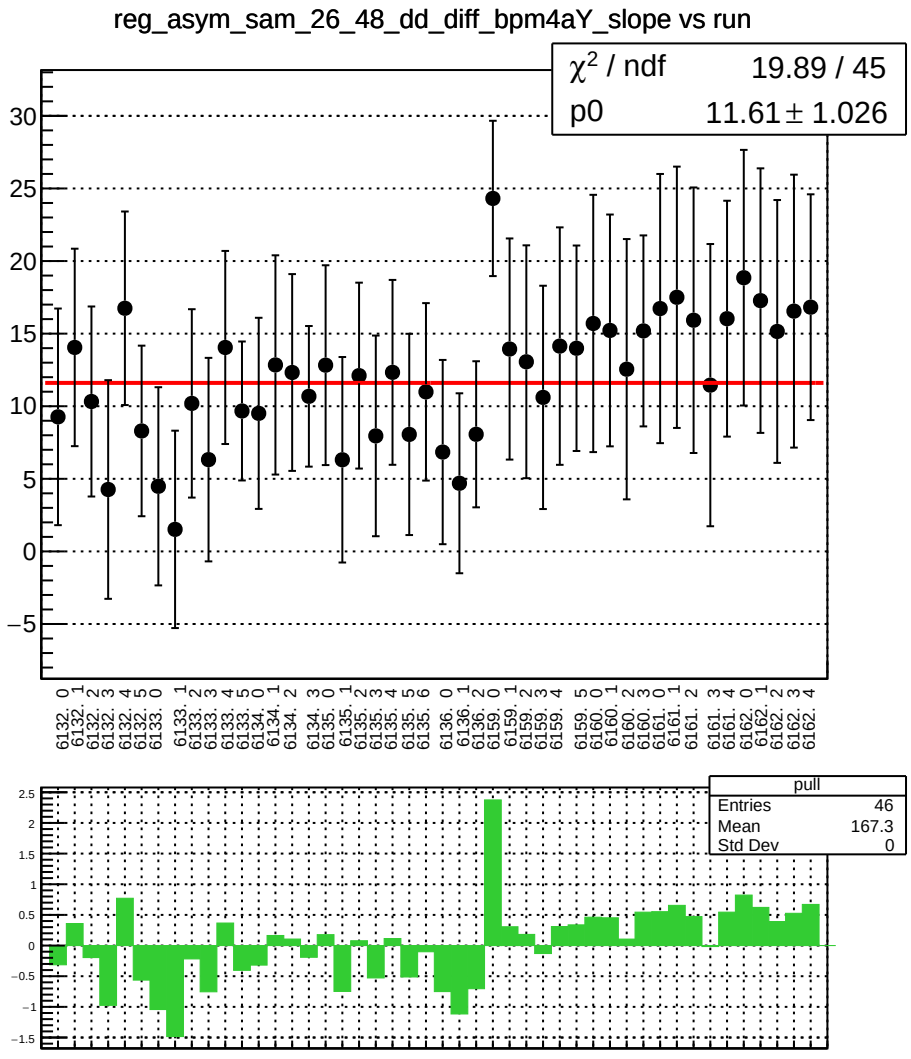

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.315 / 45
p0 −2.902 ± 2.383
pull
Entries 46
Mean 90.45
Std Dev 0

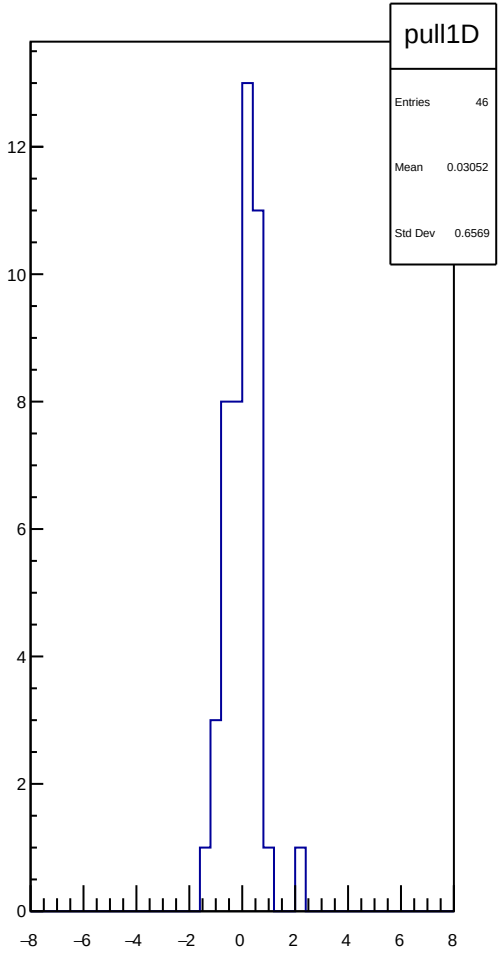

pull1D
Entries 46
Mean −0.02401
Std Dev 0.2231

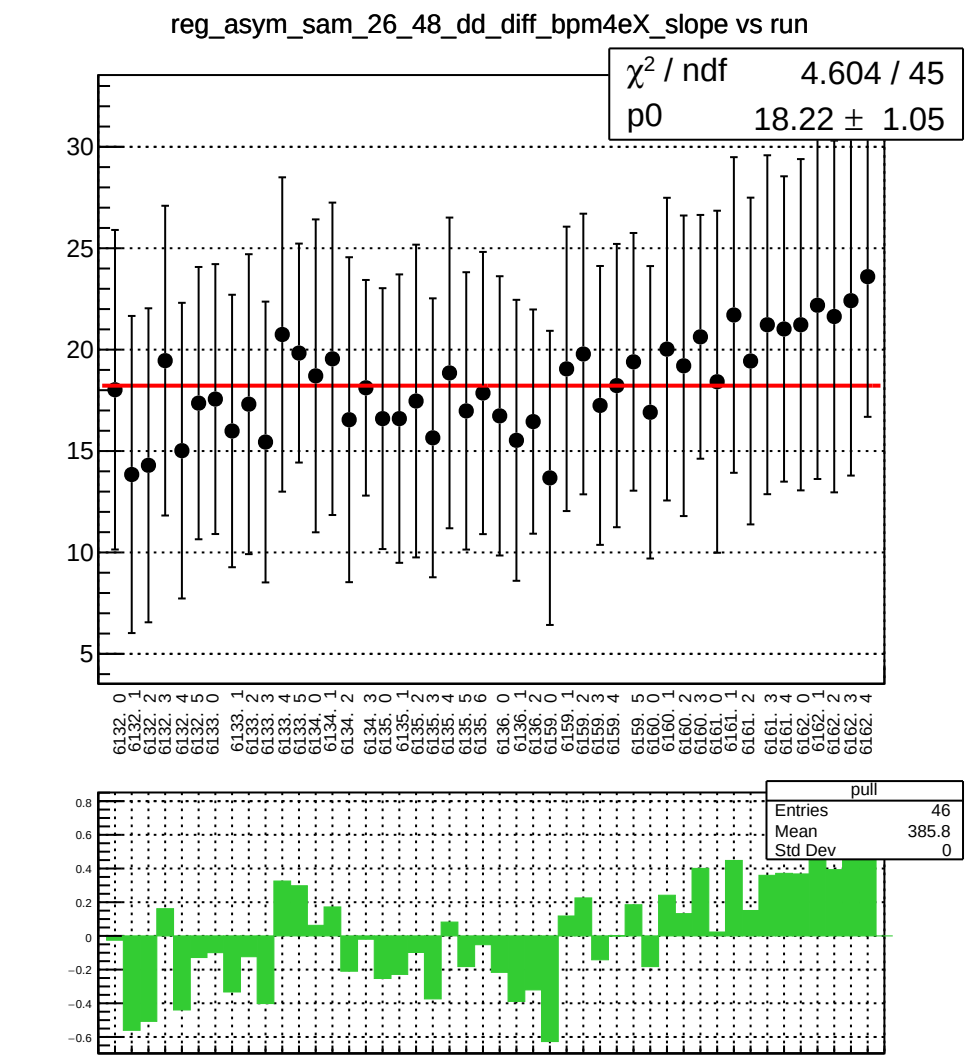

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.503 / 45
p0 −0.4404 ± 0.1902
pull
Entries 46
Mean 65.96
Std Dev 0
pull1D
Entries 46
Mean 0.01036
Std Dev 0.1041

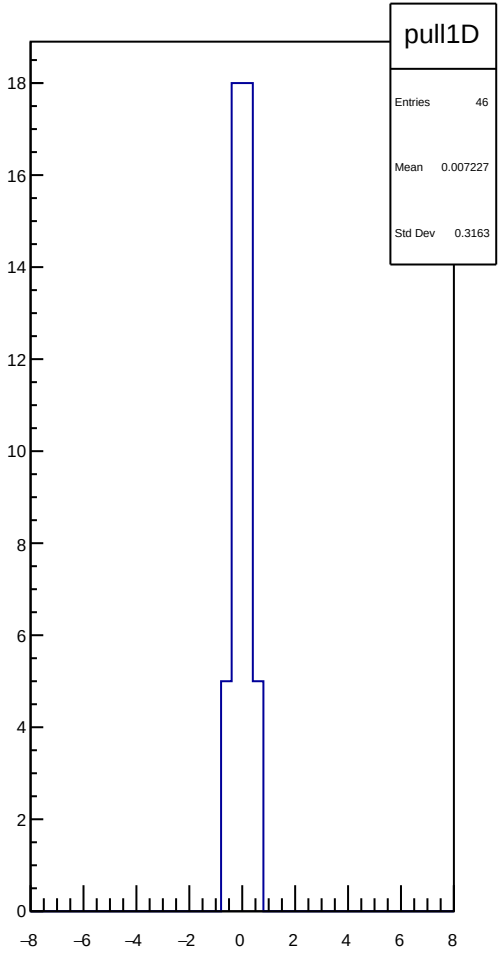

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 5.995 / 45
p0 2.638 ± 0.8565
pull
Entries 46
Mean 355.9
Std Dev 0

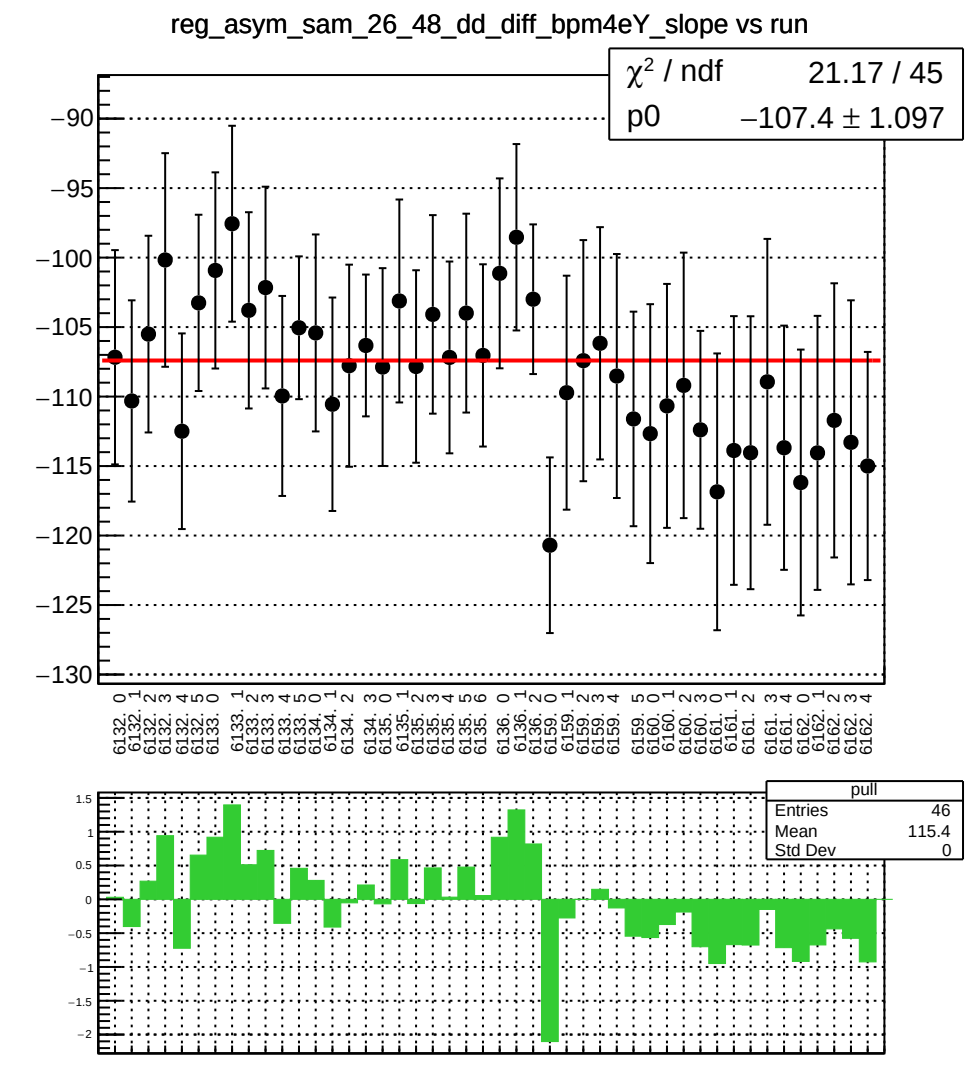

pull1D
Entries 46
Mean −0.01087
Std Dev 0.3608

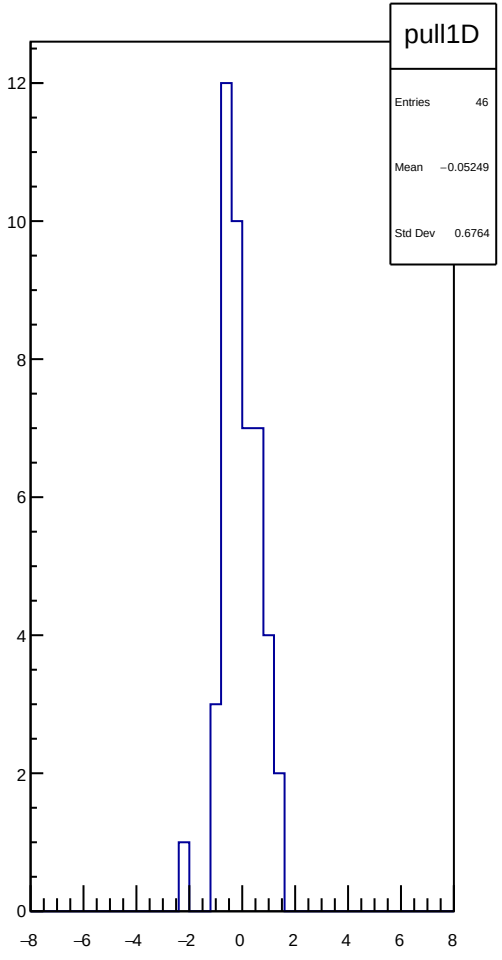

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.89 / 45
p0 11.61 ± 1.026
pull
Entries 46
Mean 167.3
Std Dev 0

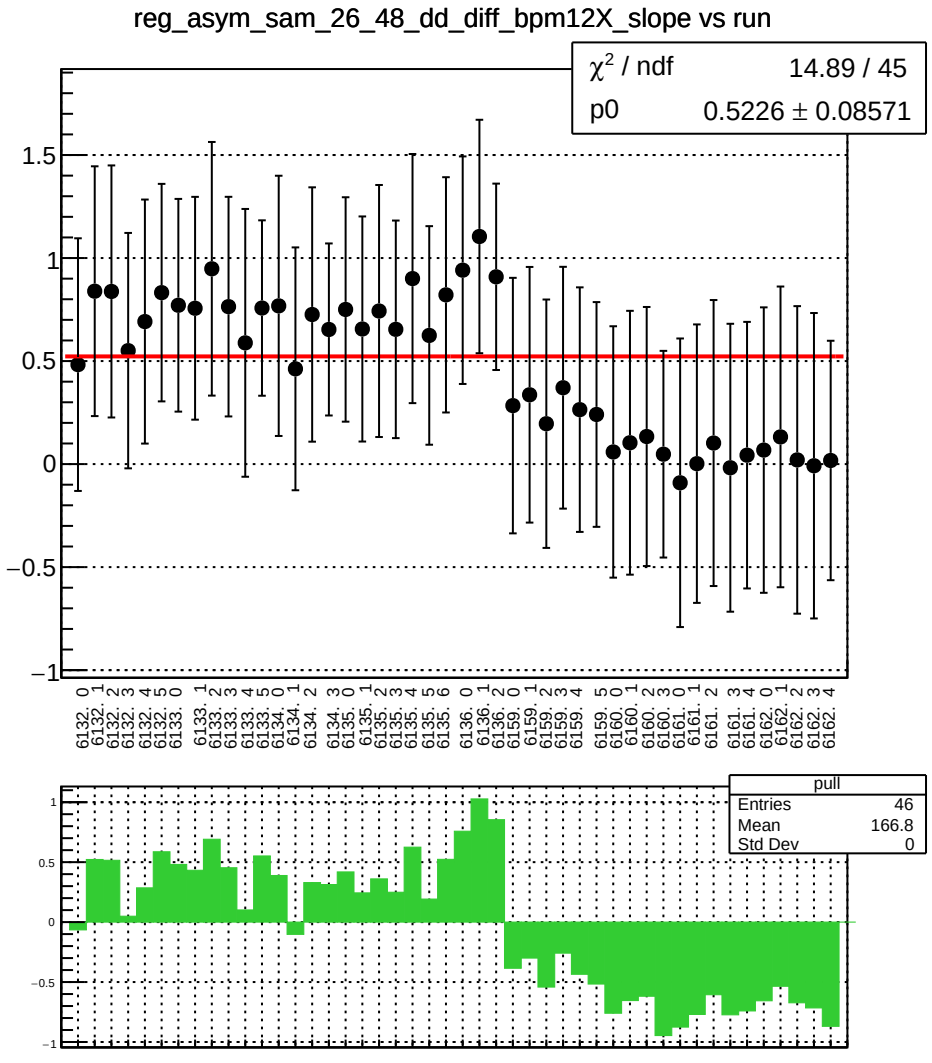

pull1D
Entries 46
Mean 0.03052
Std Dev 0.6569

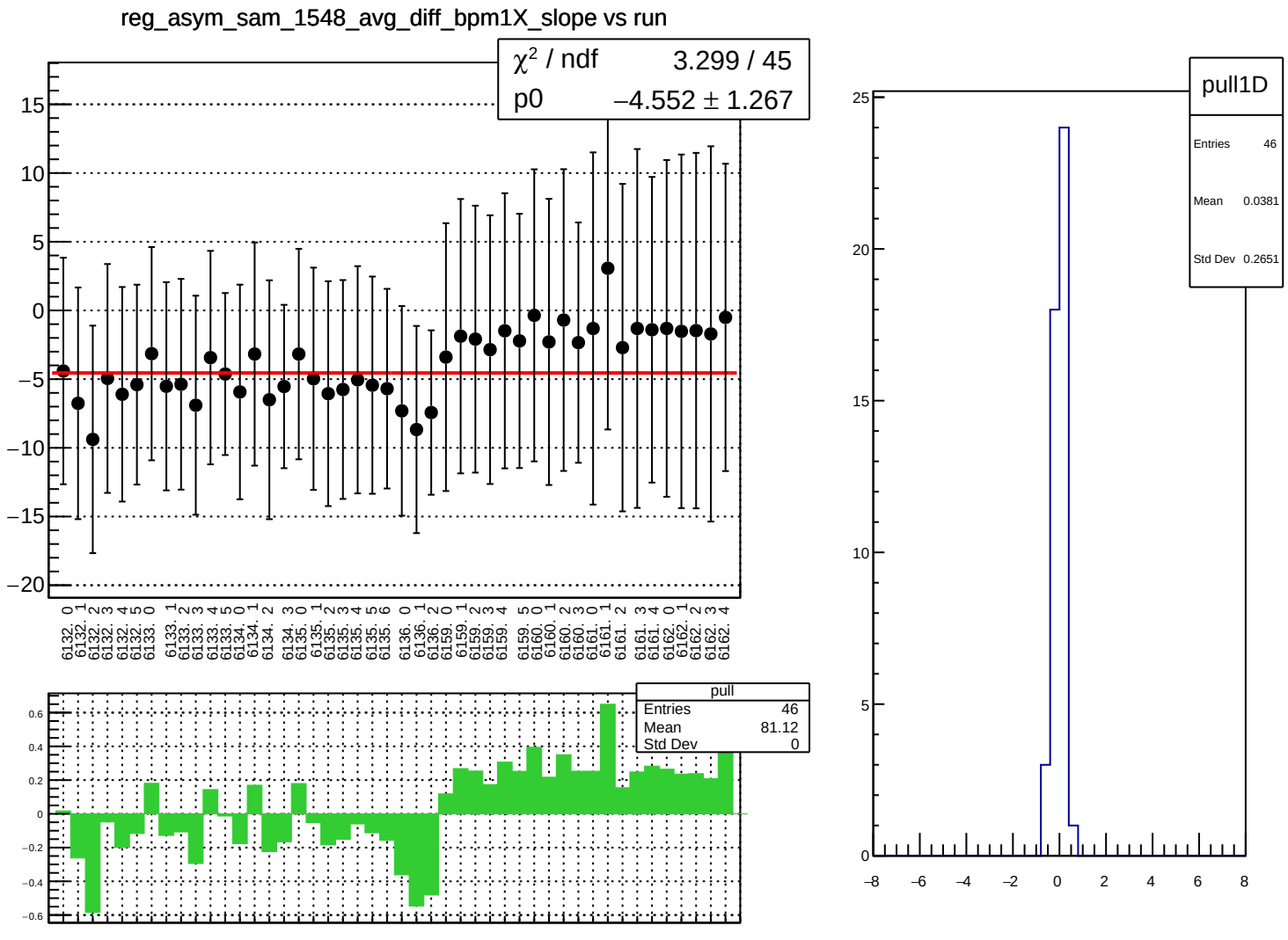

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.604 / 45
p0 18.22 ± 1.05
pull
Entries 46
Mean 385.8
Std Dev 0

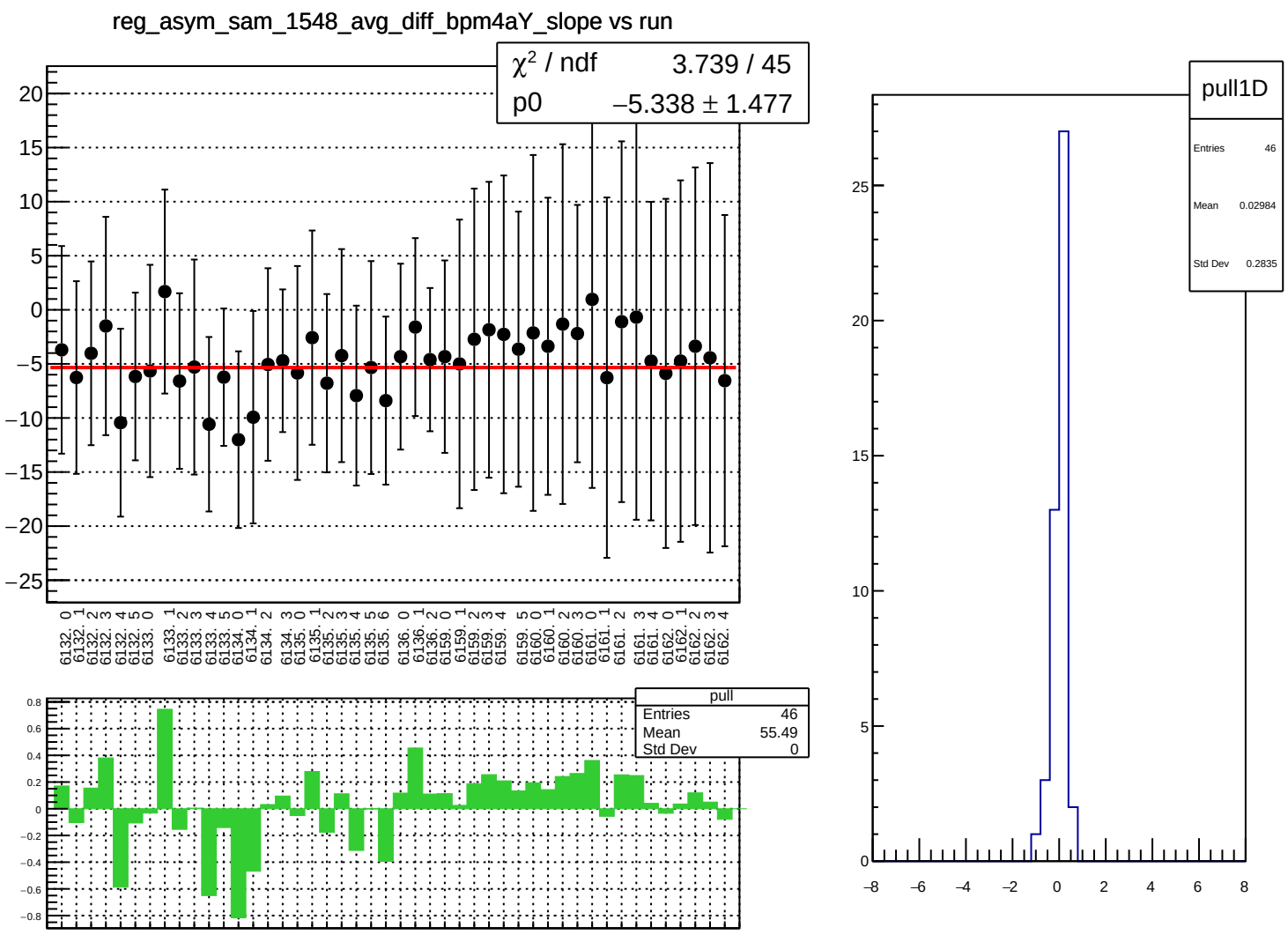

pull1D
Entries 46
Mean 0.007227
Std Dev 0.3163

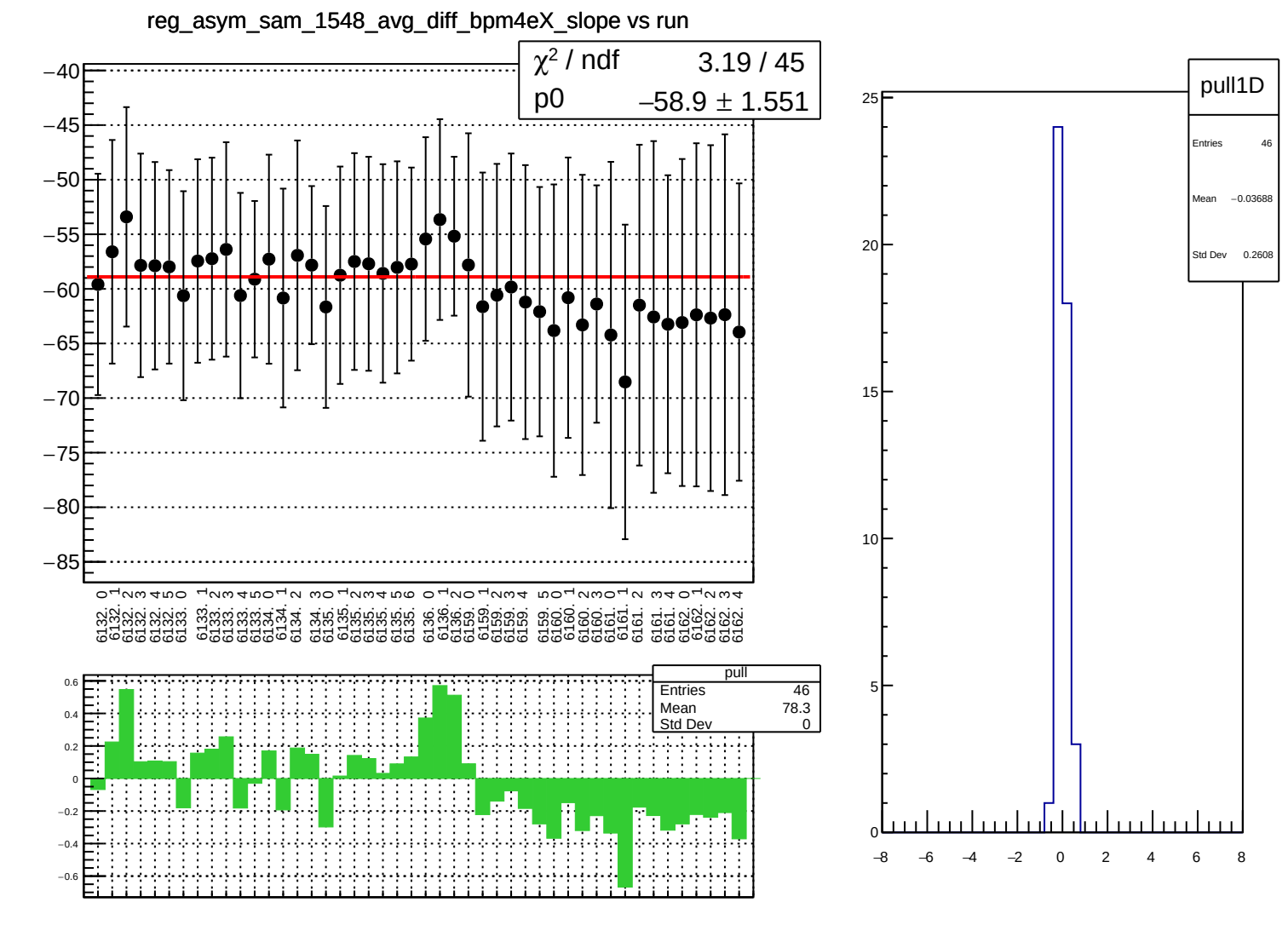

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.17 / 45
p0 −107.4 ± 1.097
pull
Entries 46
Mean 115.4
Std Dev 0

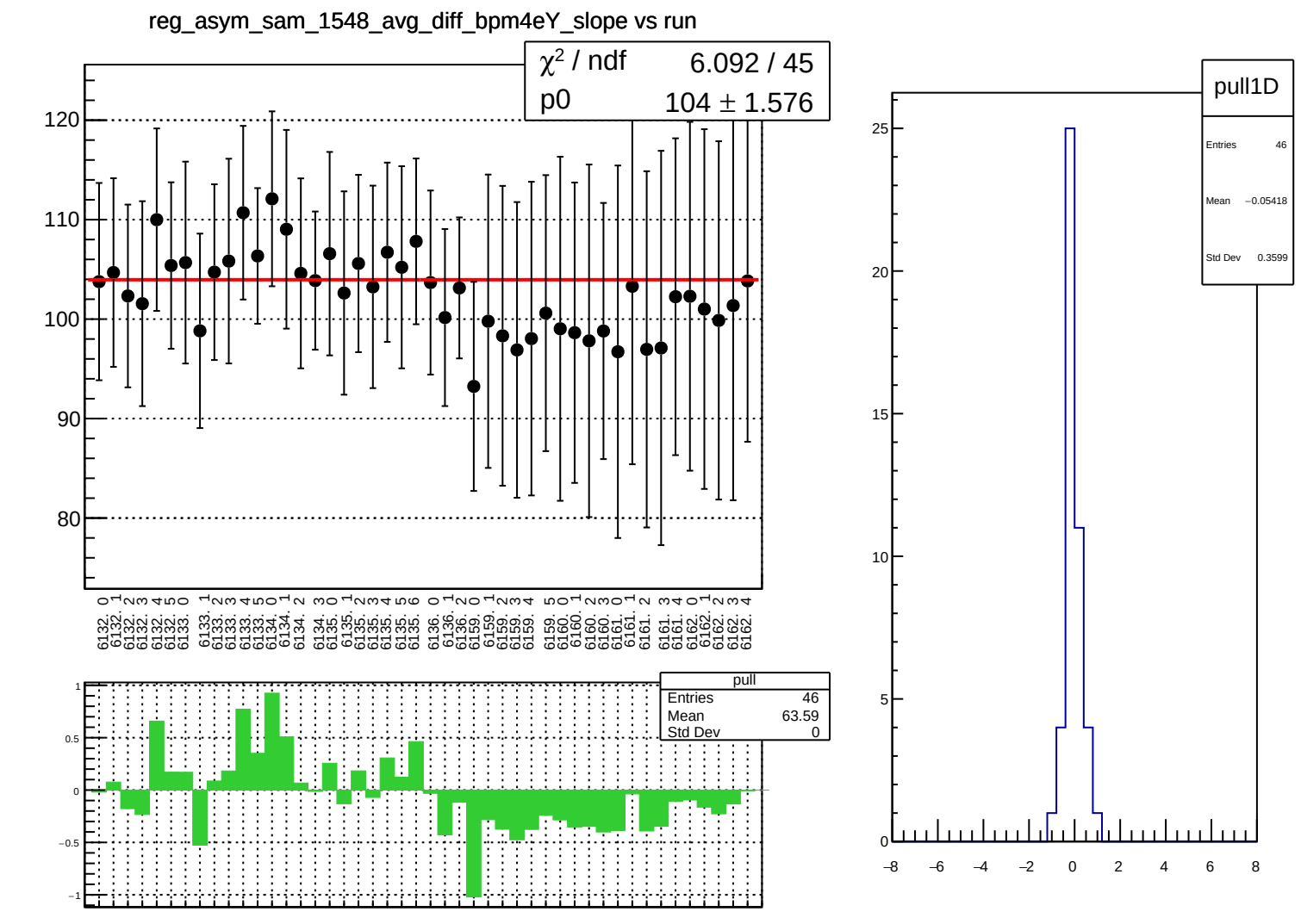

pull1D
Entries 46
Mean −0.05249
Std Dev 0.6764

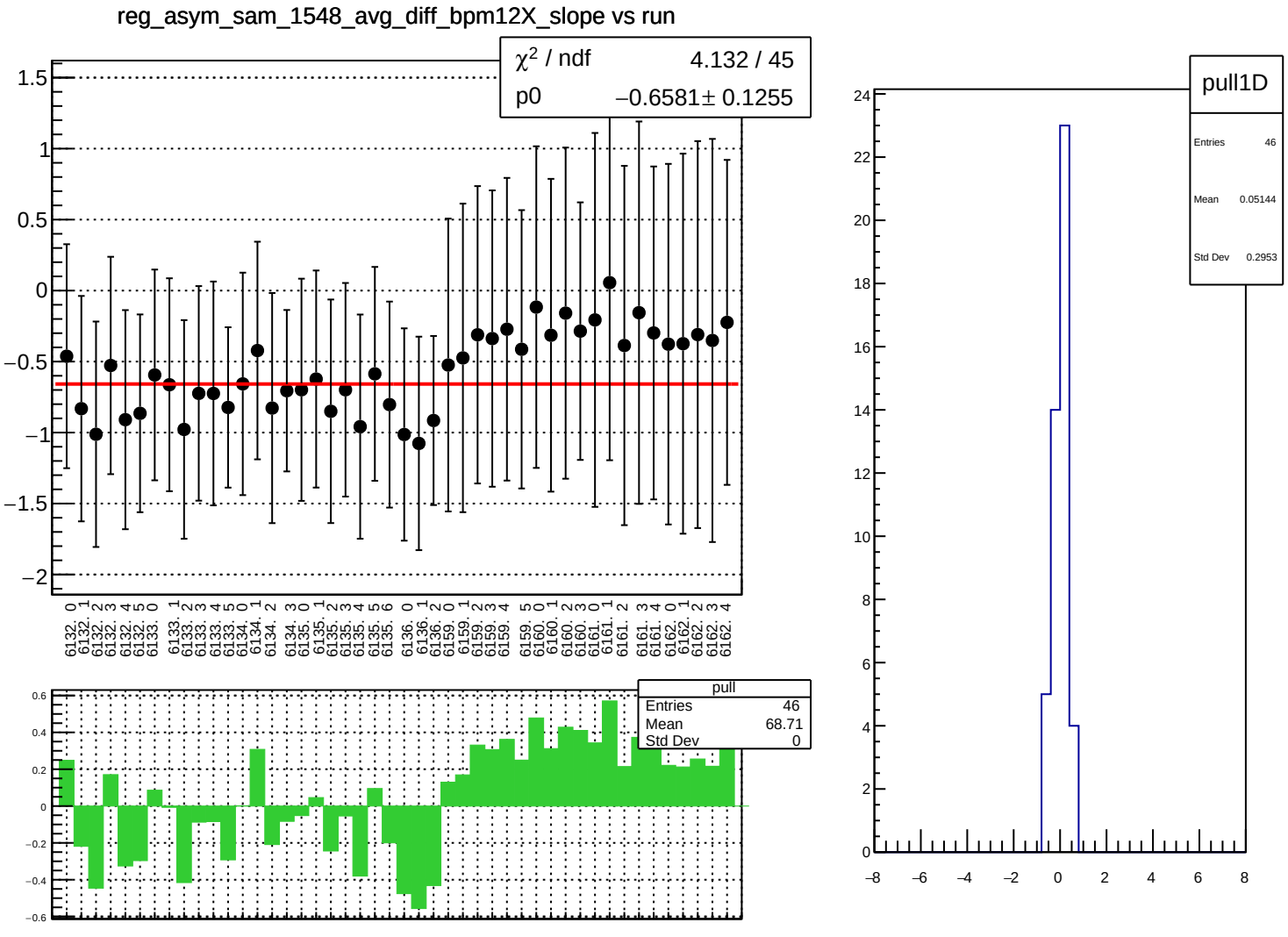

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 14.89 / 45
p0 0.5226 ± 0.08571
pull
Entries 46
Mean 166.8
Std Dev 0
pull1D
Entries 46
Mean −0.04015
Std Dev 0.5676

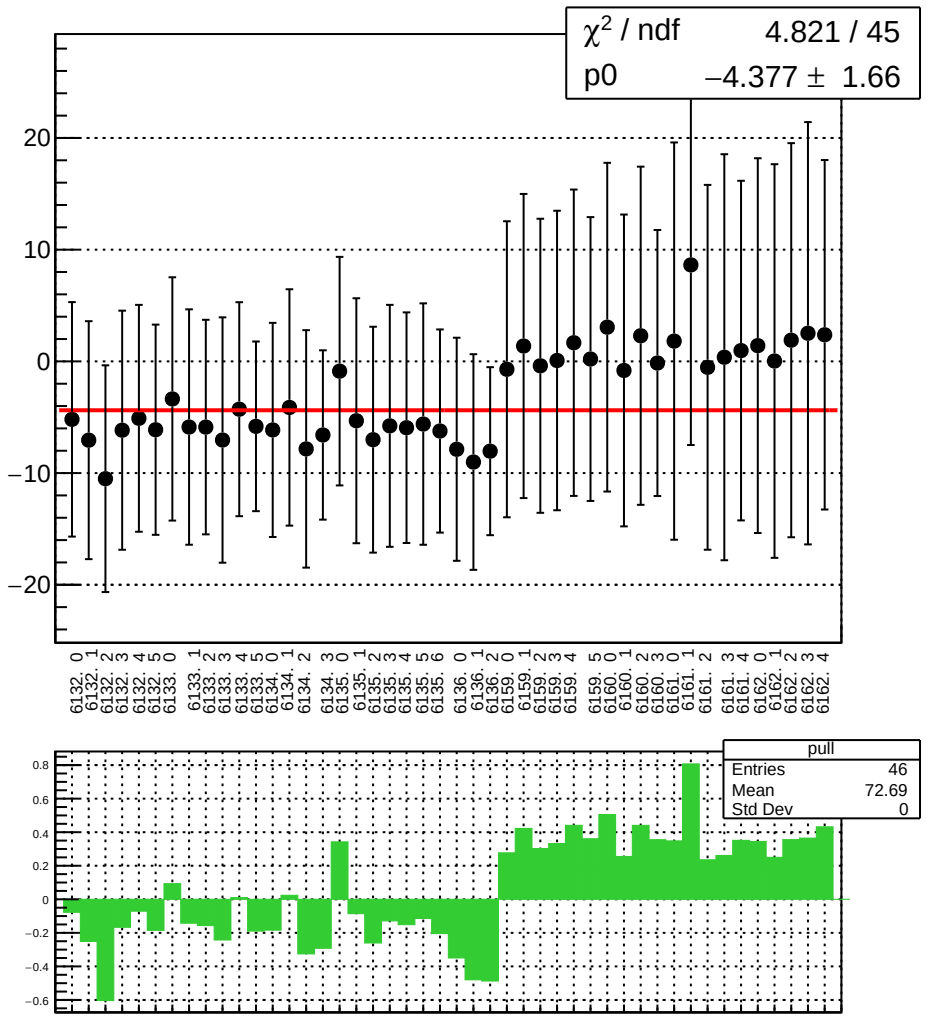

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 3.299 / 45
p0 −4.552 ± 1.267
pull
Entries 46
Mean 81.12
Std Dev 0
pull1D
Entries 46
Mean 0.0381
Std Dev 0.2651

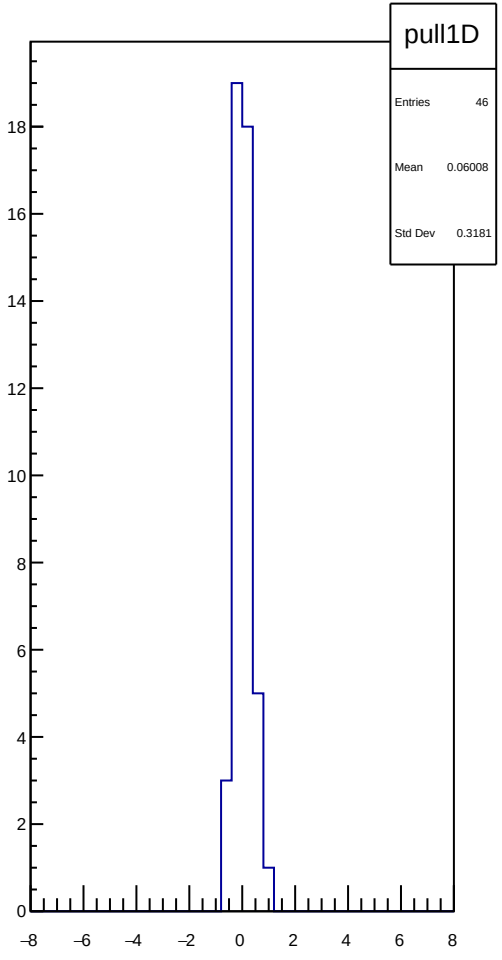

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.739 / 45
p0 −5.338 ± 1.477
pull
Entries 46
Mean 55.49
Std Dev 0
pull1D
Entries 46
Mean 0.02984
Std Dev 0.2835

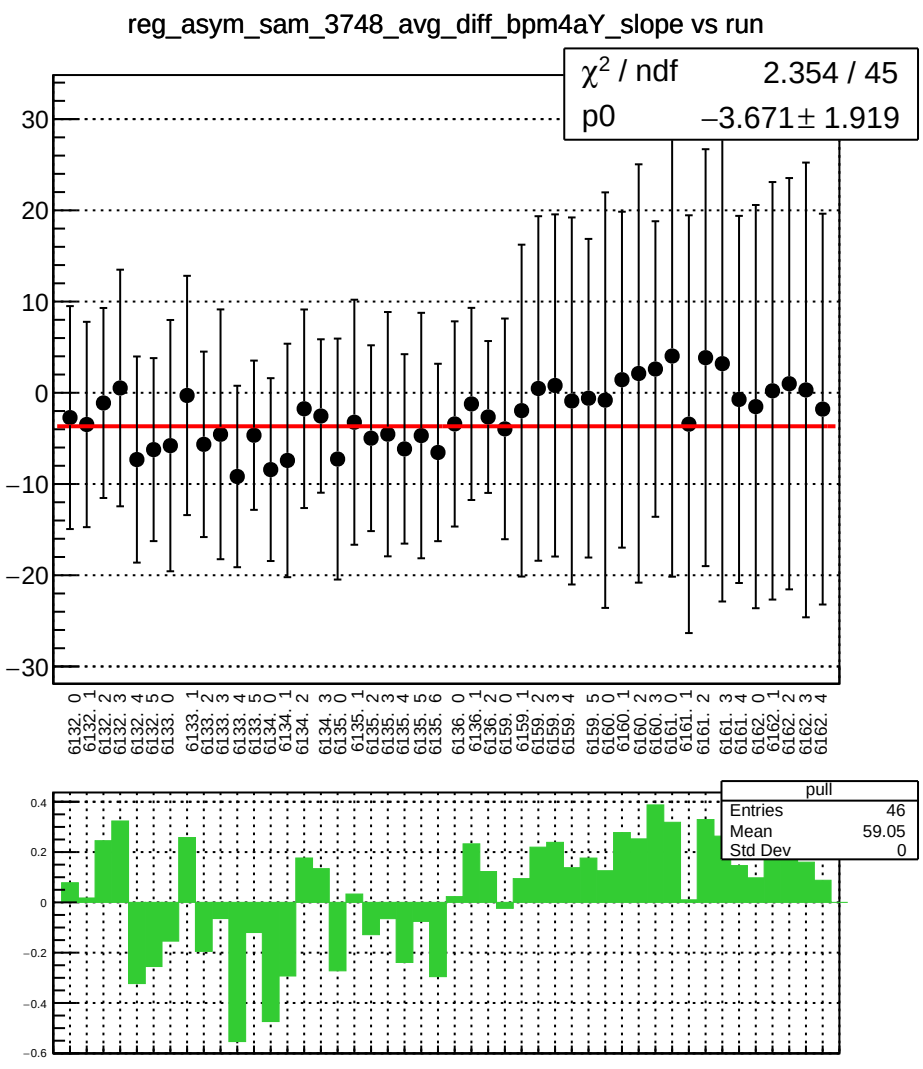

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.19 / 45
p0 −58.9 ± 1.551
pull
Entries 46
Mean 78.3
Std Dev 0
pull1D
Entries 46
Mean −0.03688
Std Dev 0.2608

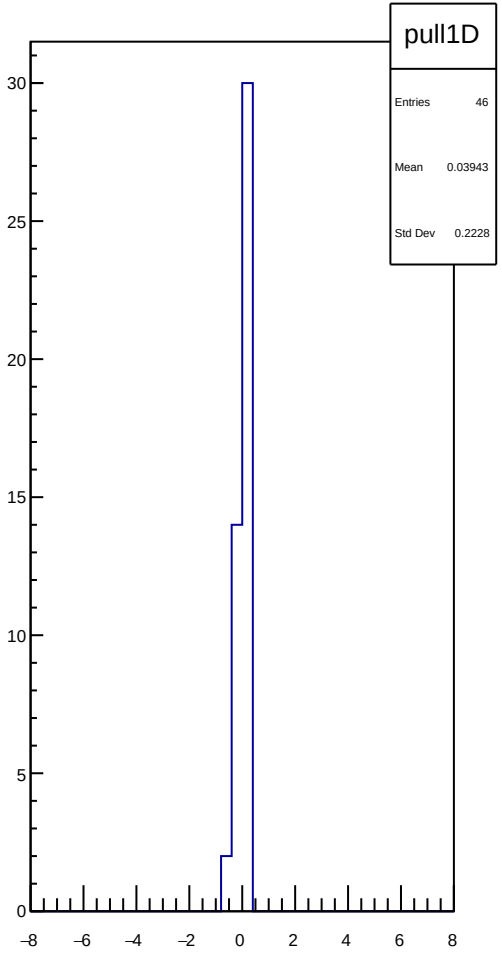

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.092 / 45
p0 104 ± 1.576
120
110
100
90
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 63.59
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.05418
Std Dev 0.3599
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

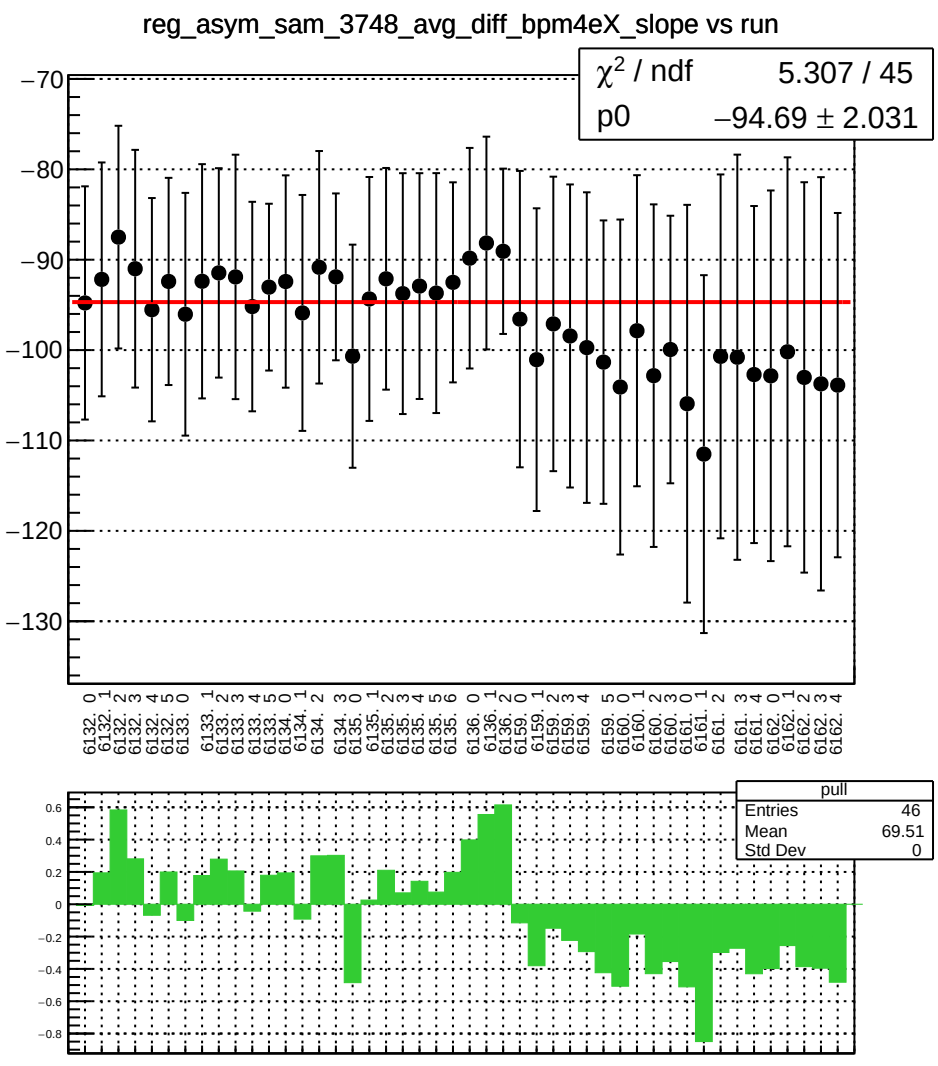

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 4.132 / 45
p0 −0.6581± 0.1255
pull
Entries 46
Mean 68.71
Std Dev 0
pull1D
Entries 46
Mean 0.05144
Std Dev 0.2953

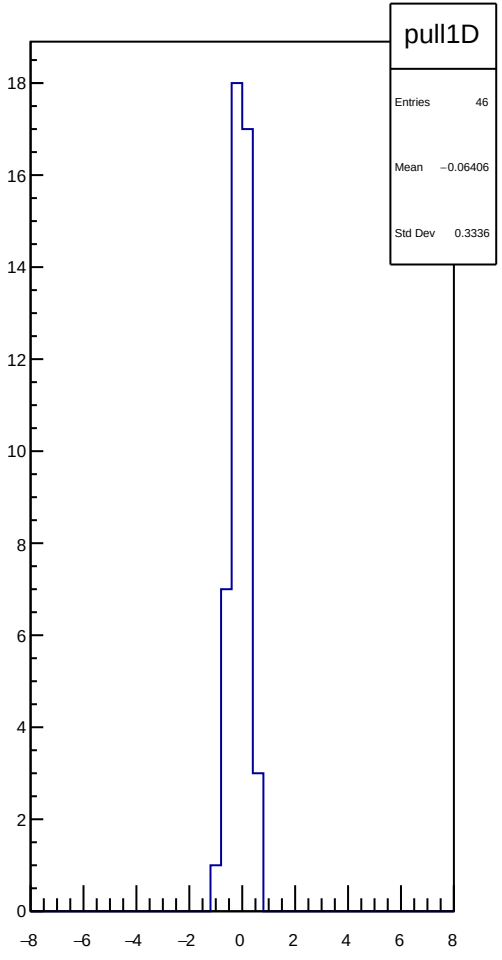

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 4.821 / 45
p0 −4.377 ± 1.66
pull
Entries 46
Mean 72.69
Std Dev 0

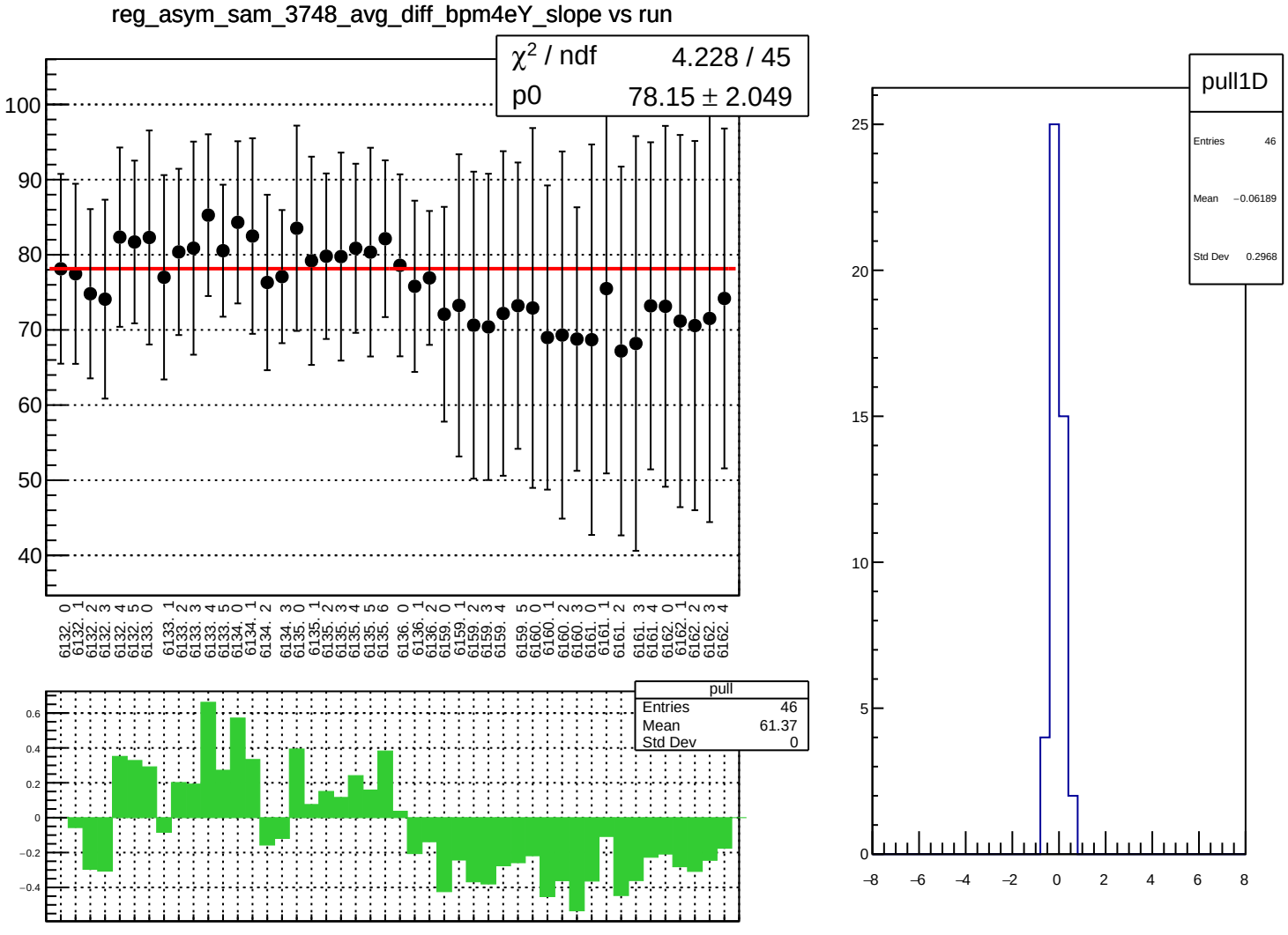

pull1D
Entries 46
Mean 0.06008
Std Dev 0.3181

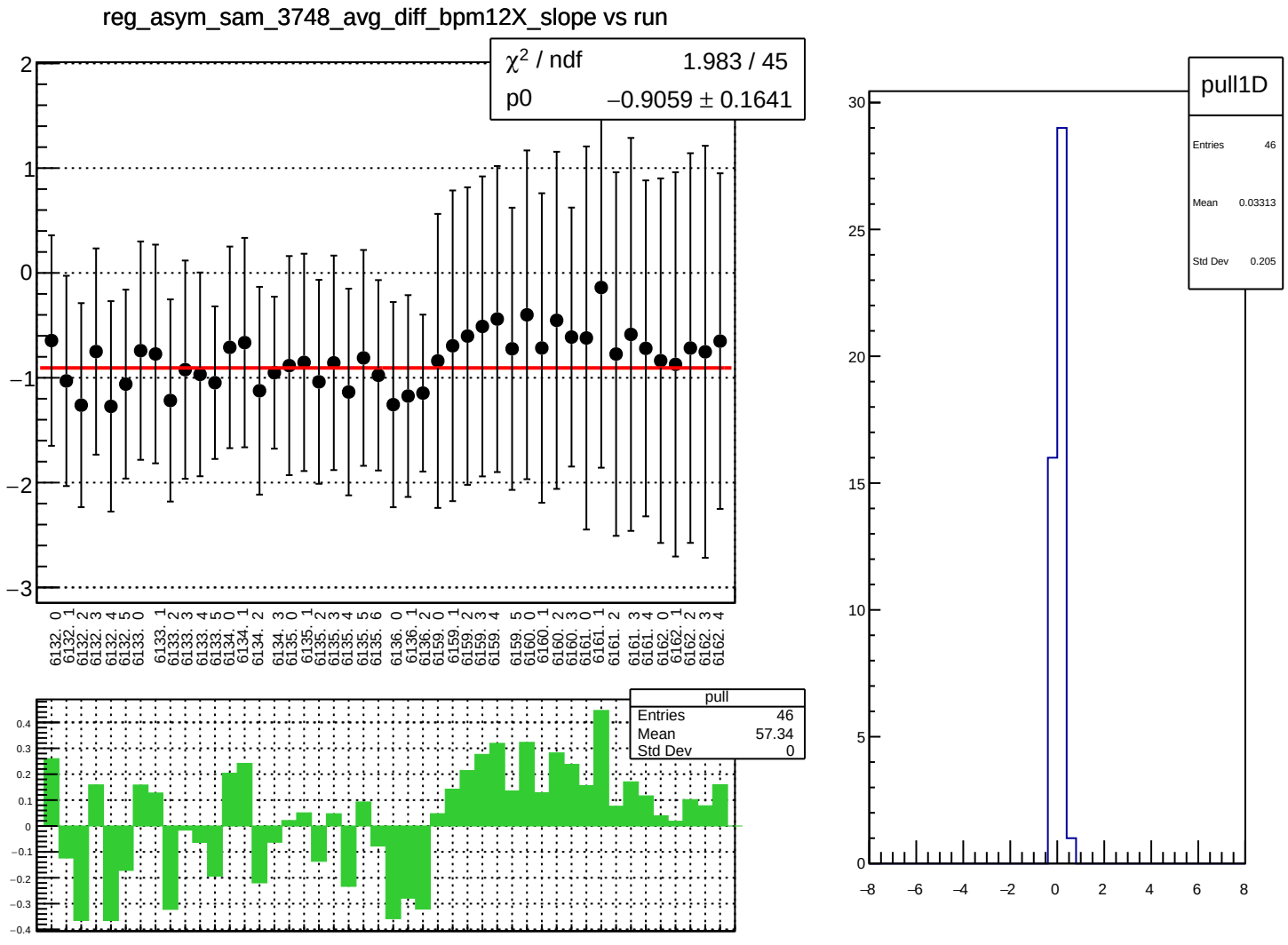

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.354 / 45
p0 −3.671± 1.919
pull
Entries 46
Mean 59.05
Std Dev 0

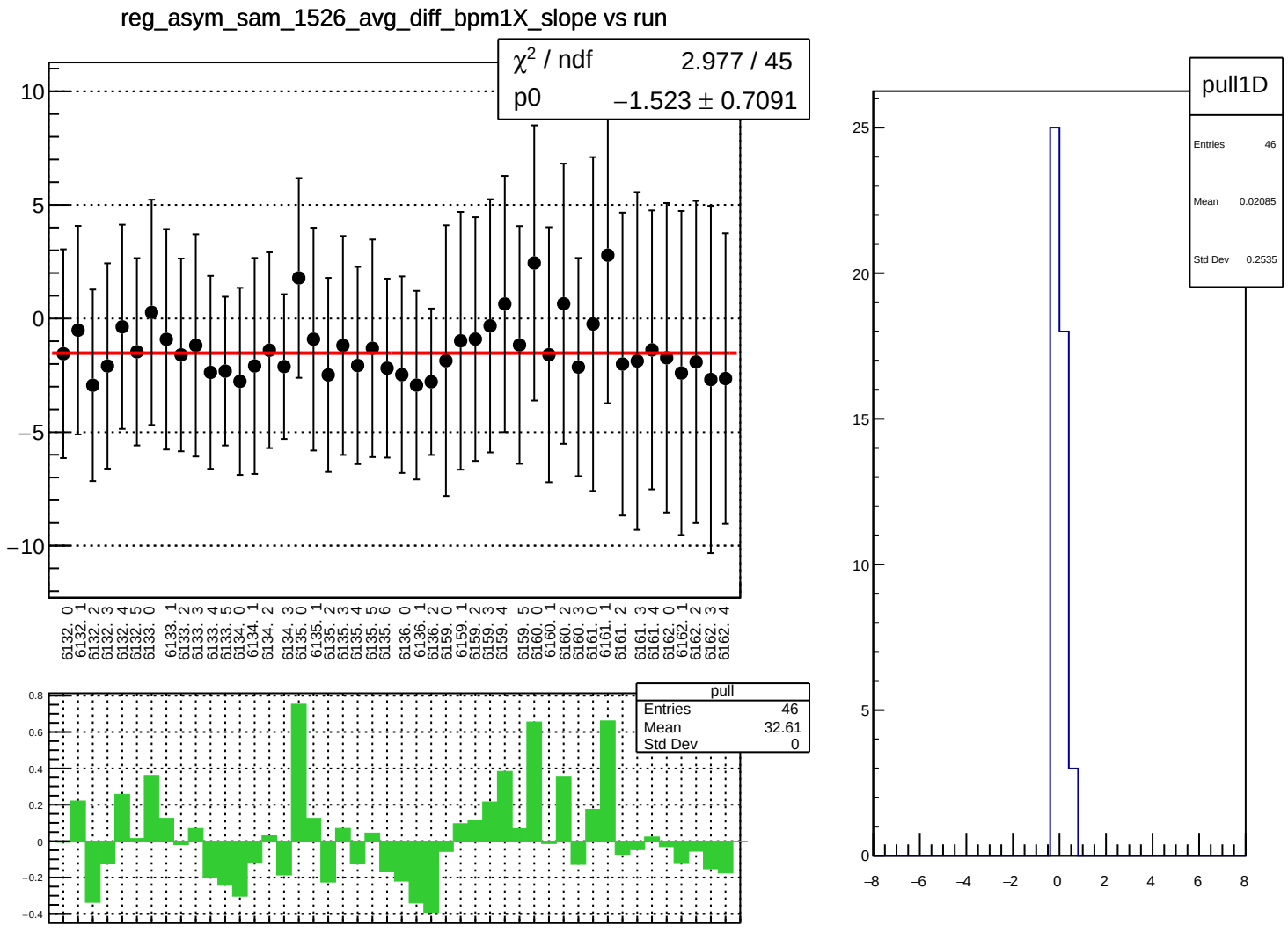

pull1D
Entries 46
Mean 0.03943
Std Dev 0.2228

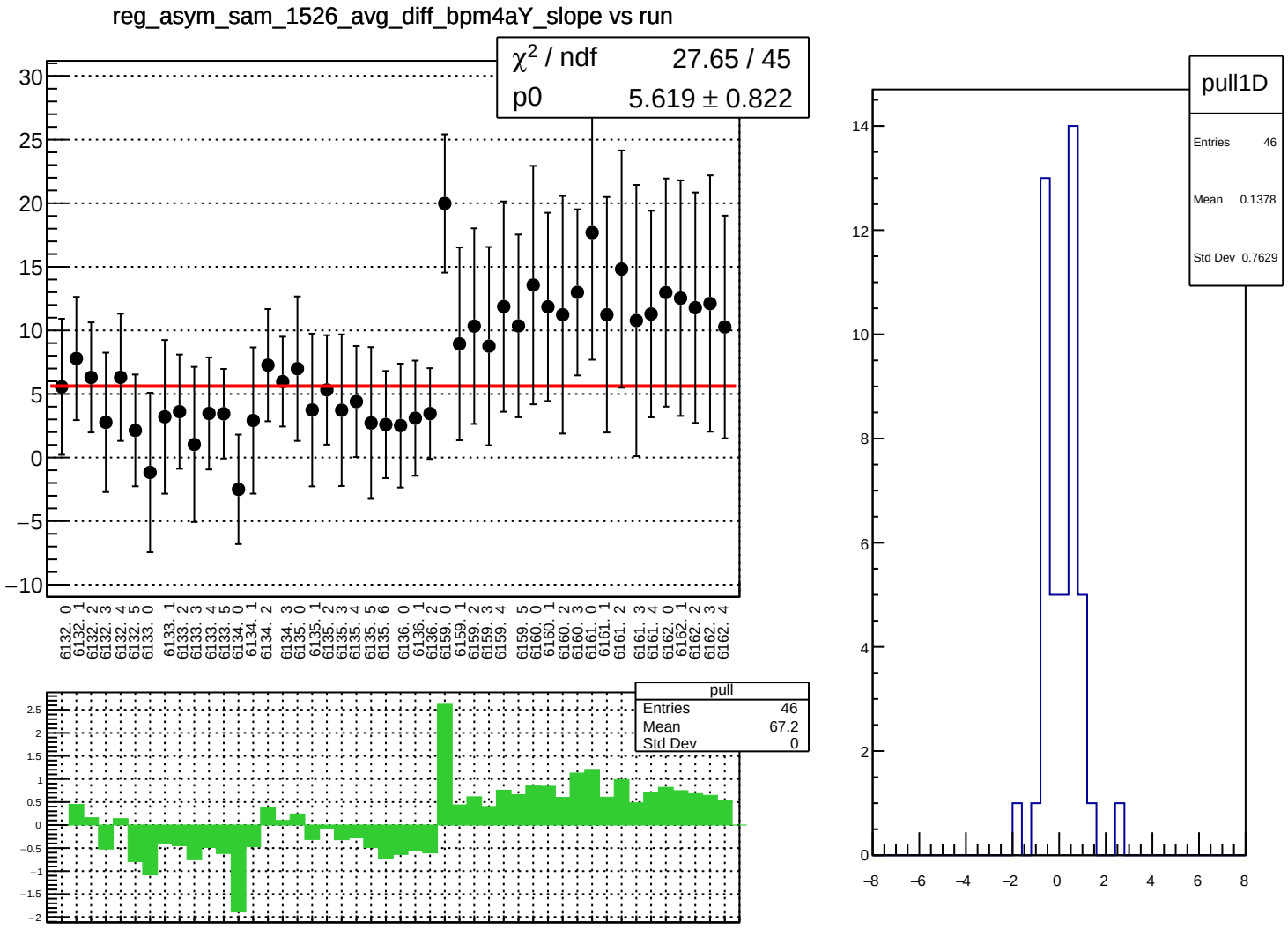

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.307 / 45
p0 −94.69 ± 2.031
pull
Entries 46
Mean 69.51
Std Dev 0

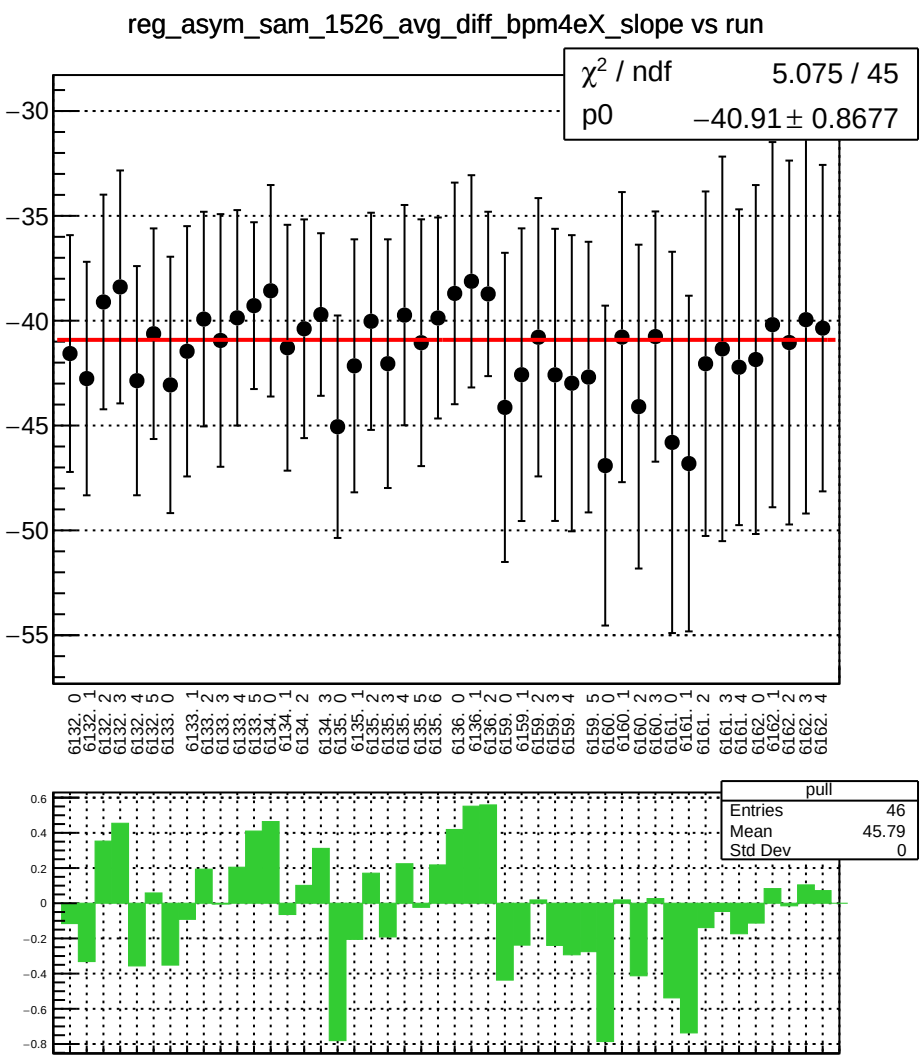

pull1D
Entries 46
Mean −0.06406
Std Dev 0.3336

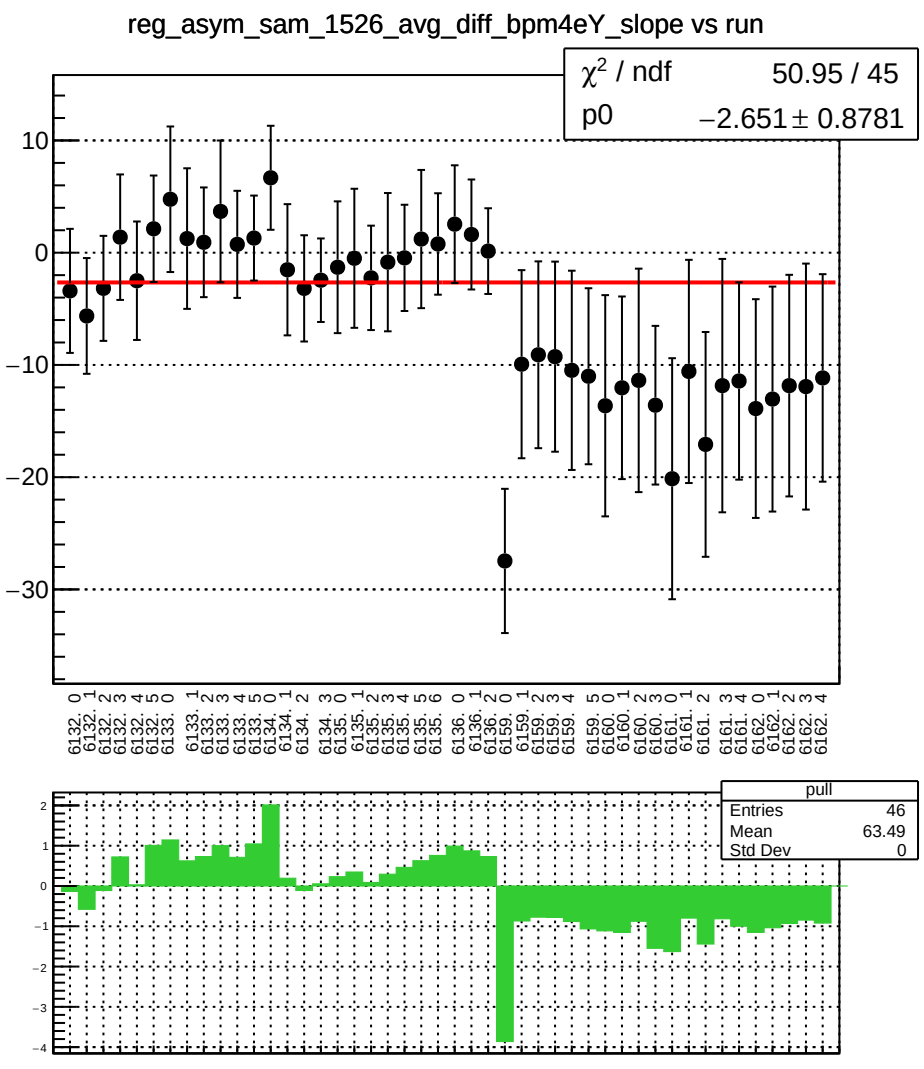

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.228 / 45
p0 78.15 ± 2.049
pull
Entries 46
Mean 61.37
Std Dev 0
pull1D
Entries 46
Mean −0.06189
Std Dev 0.2968

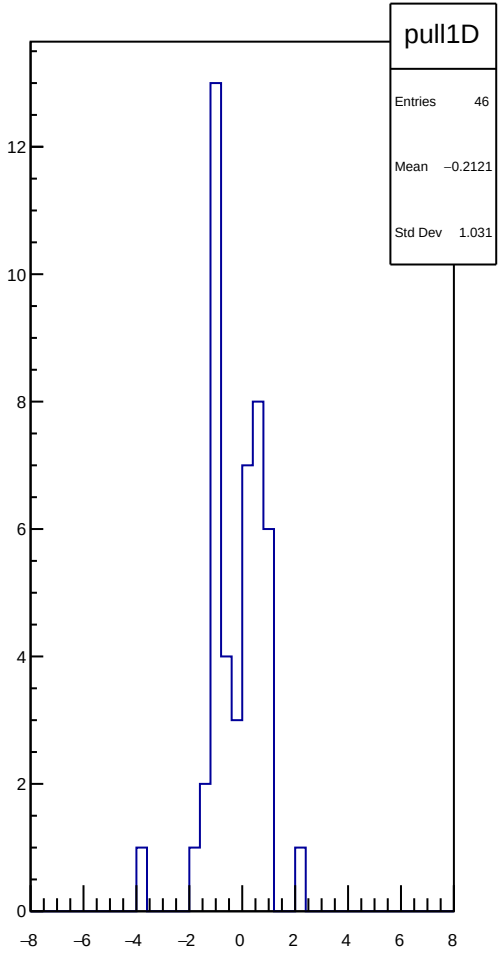

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 1.983 / 45
p0 −0.9059 ± 0.1641
pull
Entries 46
Mean 57.34
Std Dev 0
pull1D
Entries 46
Mean 0.03313
Std Dev 0.205

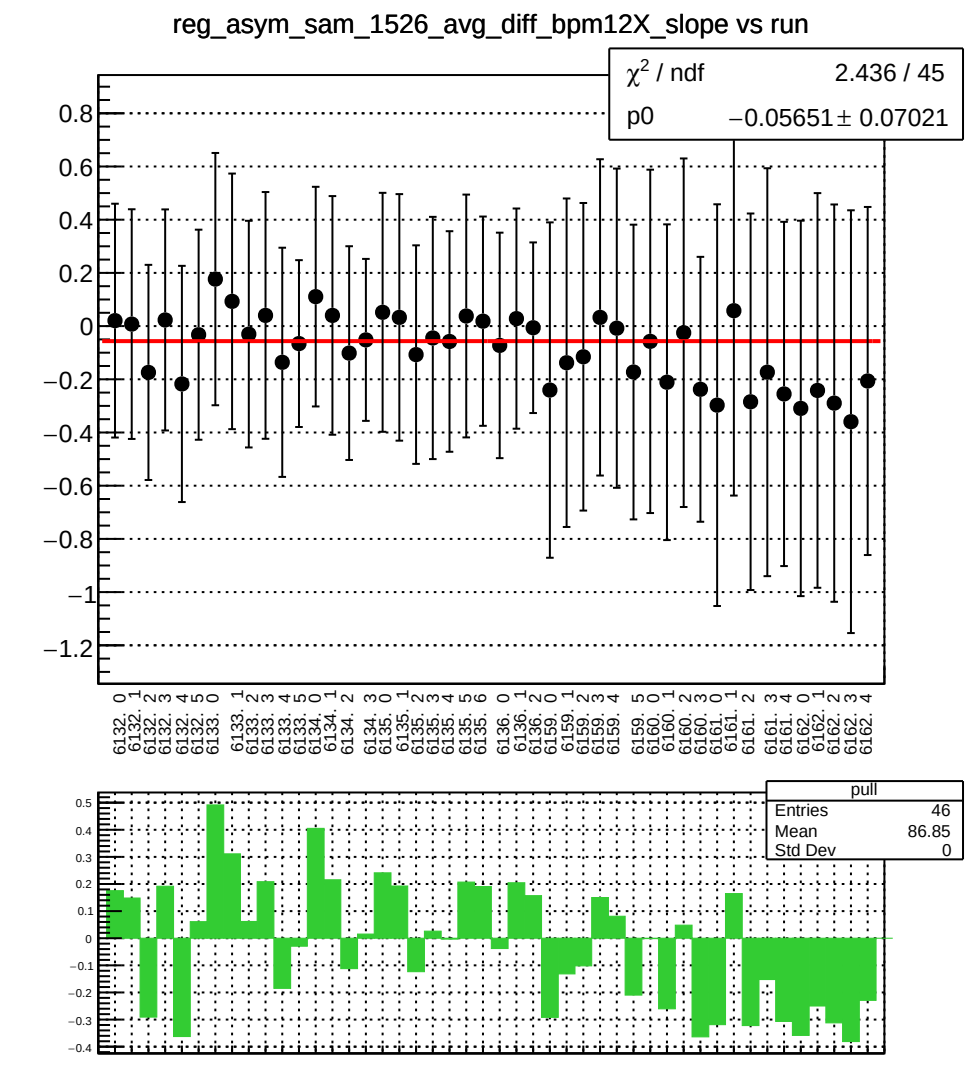

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 2.977 / 45
p0 −1.523 ± 0.7091
pull
Entries 46
Mean 32.61
Std Dev 0
pull1D
Entries 46
Mean 0.02085
Std Dev 0.2535

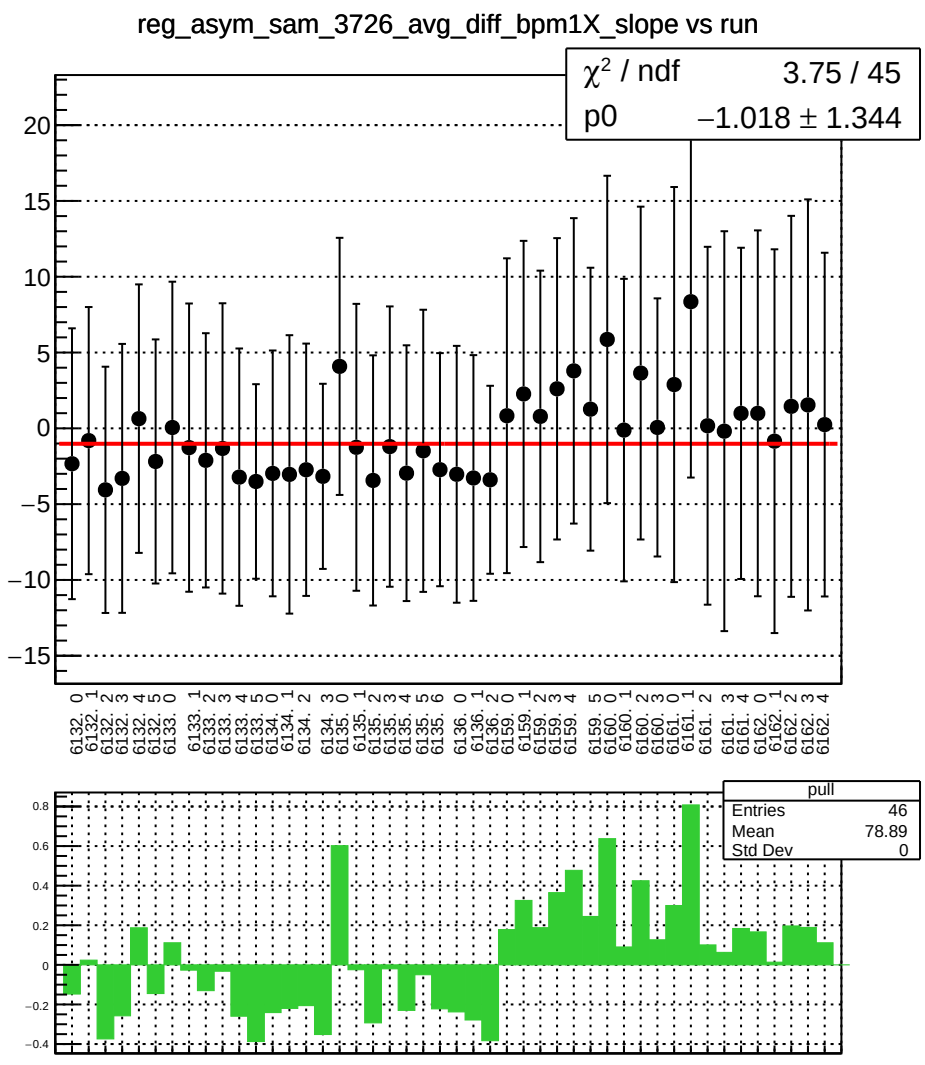

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 27.65 / 45
p0 5.619 ± 0.822
pull
Entries 46
Mean 67.2
Std Dev 0
pull1D
Entries 46
Mean 0.1378
Std Dev 0.7629

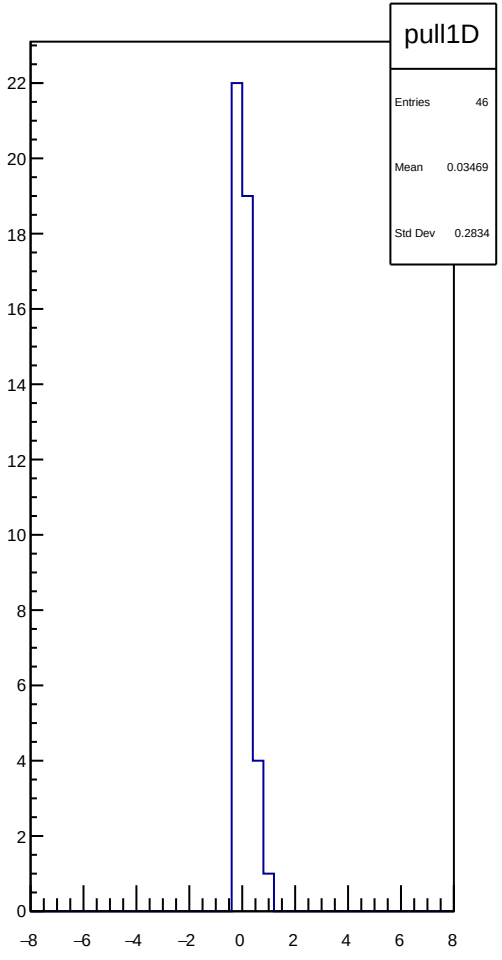

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.075 / 45
p0 −40.91 ± 0.8677
pull
Entries 46
Mean 45.79
Std Dev 0
pull1D
Entries 46
Mean −0.0422
Std Dev 0.3295

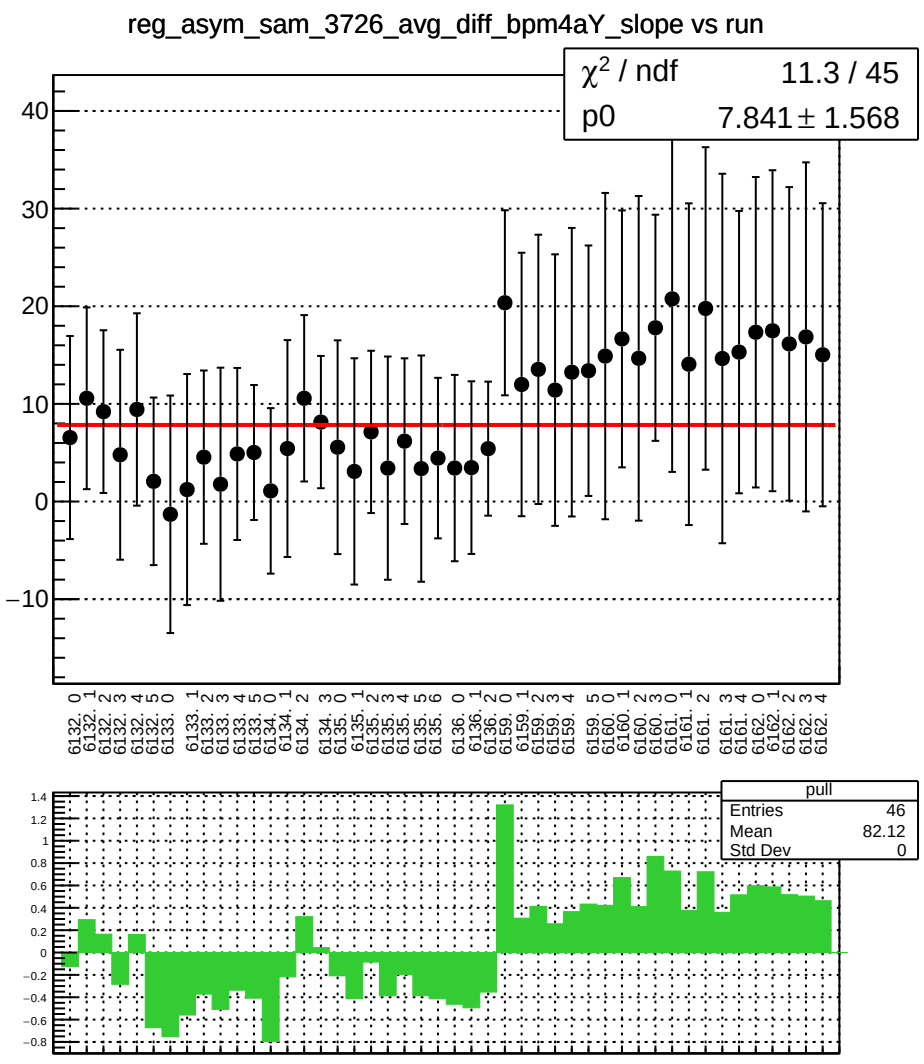

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 50.95 / 45
p0 −2.651 ± 0.8781
pull
Entries 46
Mean 63.49
Std Dev 0

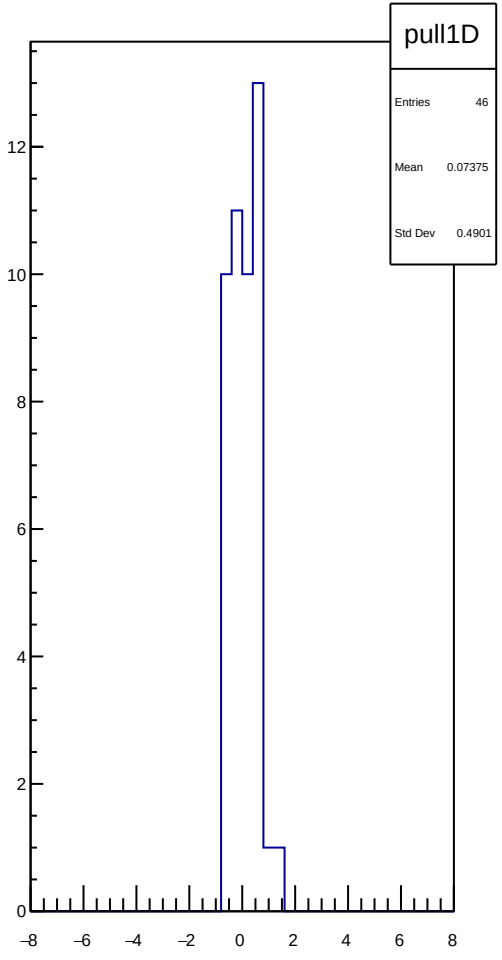

pull1D
Entries 46
Mean −0.2121
Std Dev 1.031

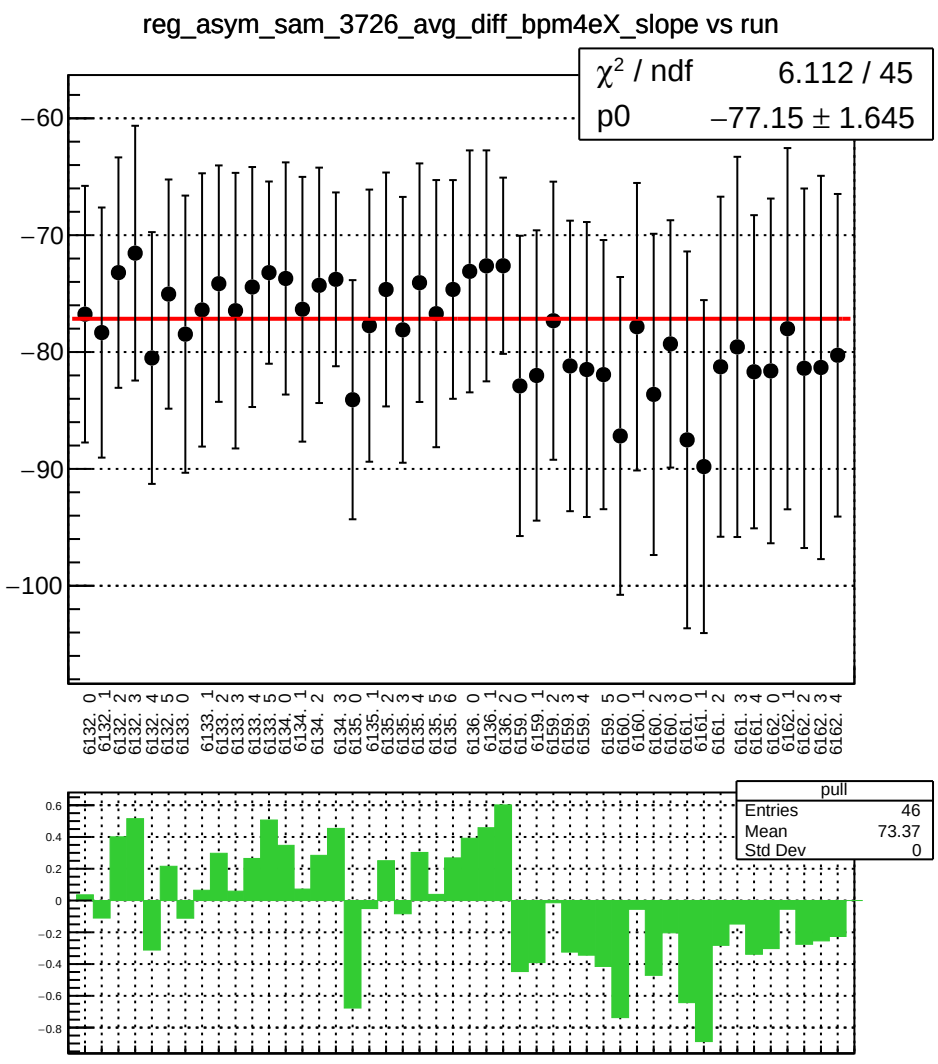

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 2.436 / 45
p0 −0.05651 ± 0.07021
pull
Entries 46
Mean 86.85
Std Dev 0
pull1D
Entries 46
Mean −0.02579
Std Dev 0.2287

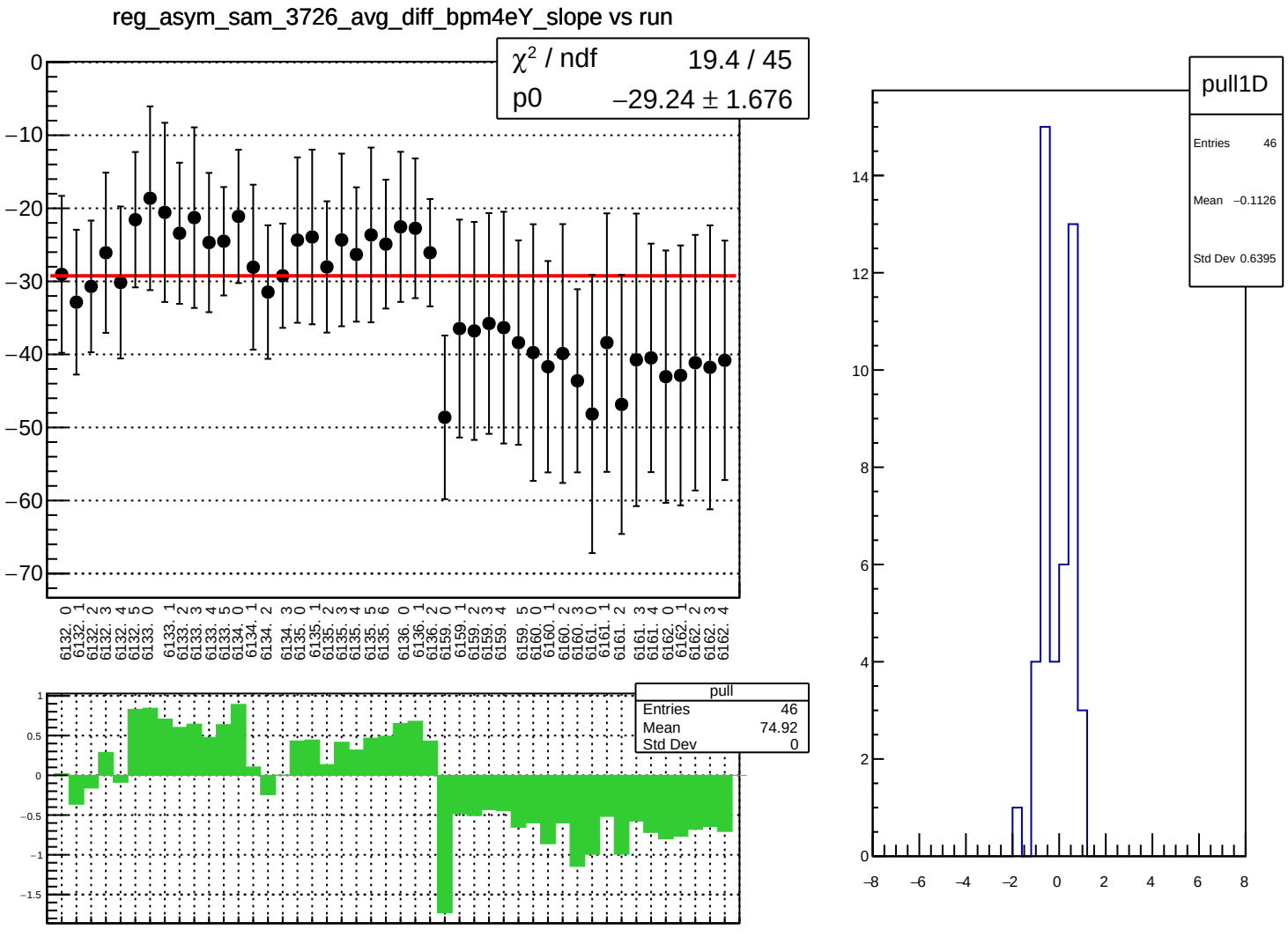

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 3.75 / 45
p0 −1.018 ± 1.344
pull
Entries 46
Mean 78.89
Std Dev 0

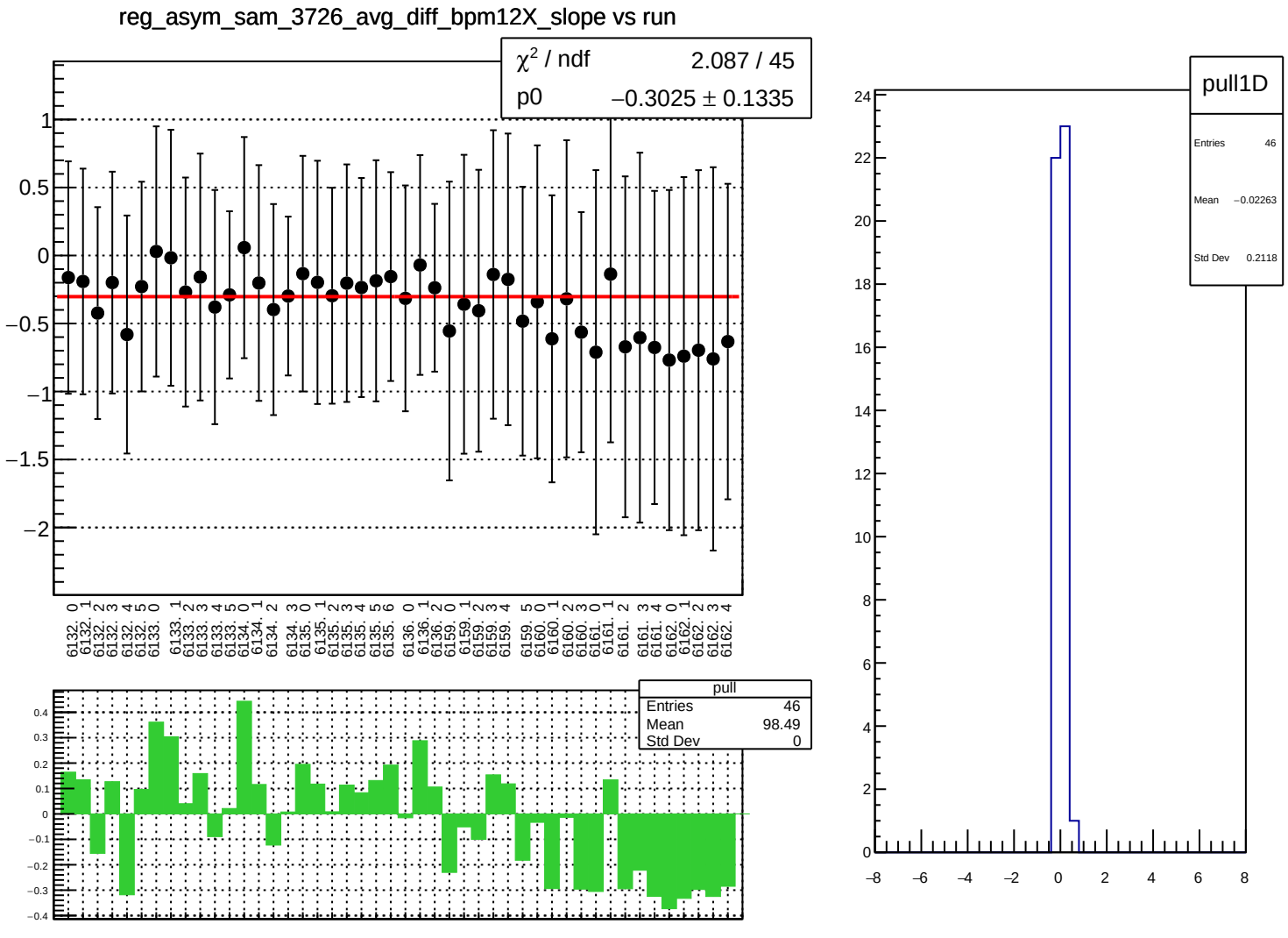

pull1D
Entries 46
Mean 0.03469
Std Dev 0.2834

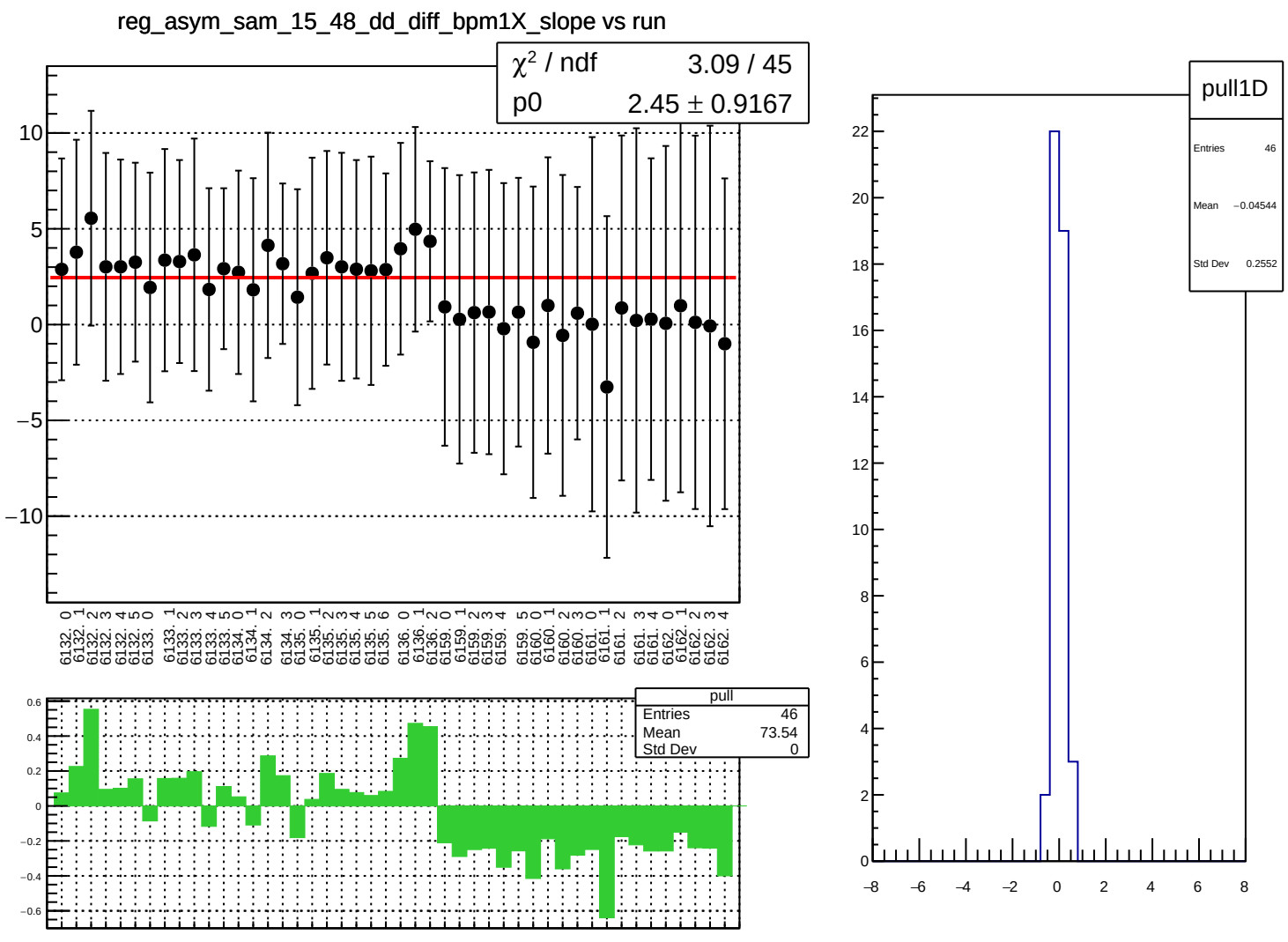

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.3 / 45
p0 7.841 ± 1.568
pull
Entries 46
Mean 82.12
Std Dev 0

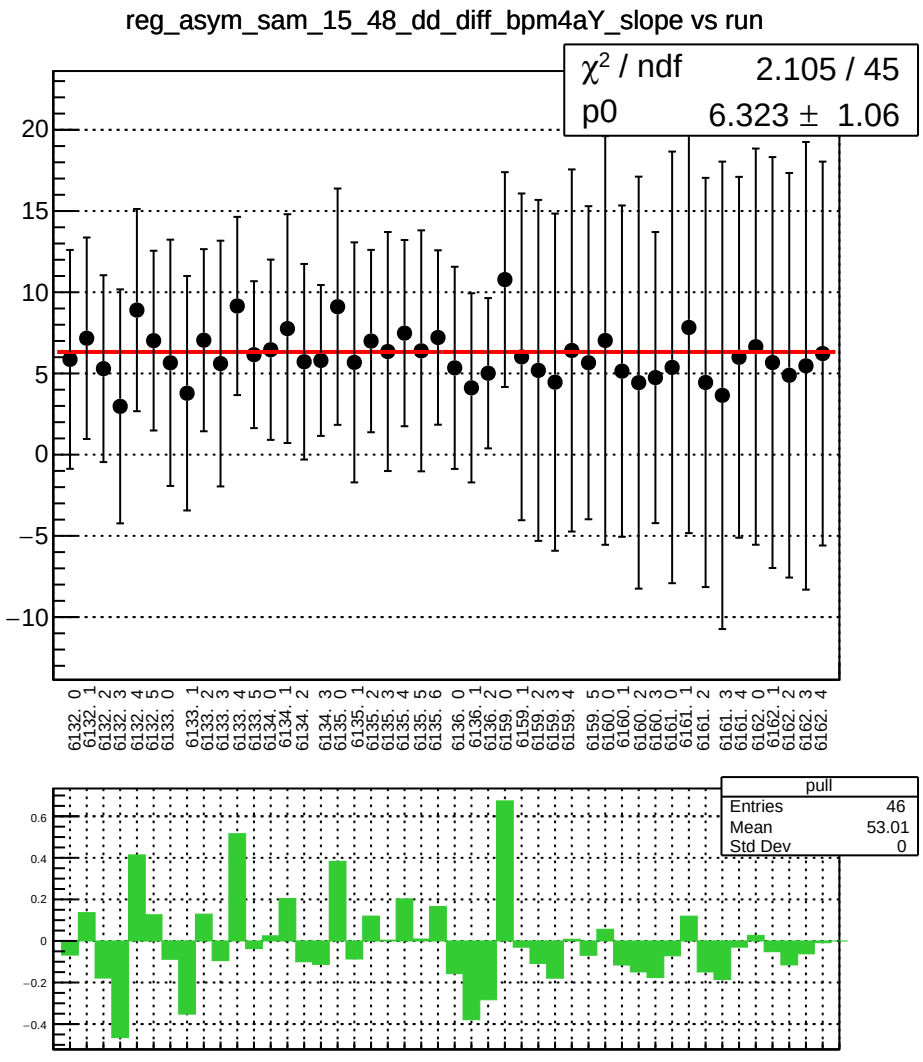

pull1D
Entries 46
Mean 0.07375
Std Dev 0.4901

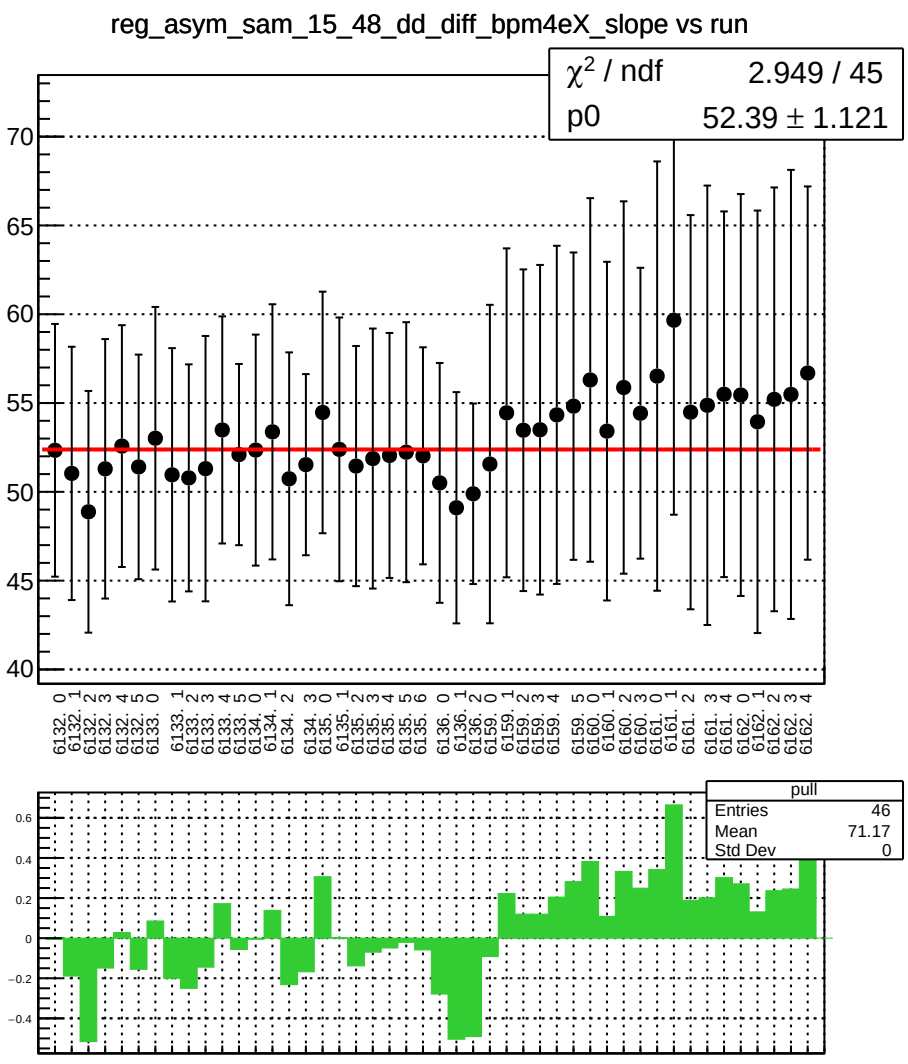

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.112 / 45
p0 −77.15 ± 1.645
−60
−70
−80
−90
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 73.37
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean −0.05062
Std Dev 0.361
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

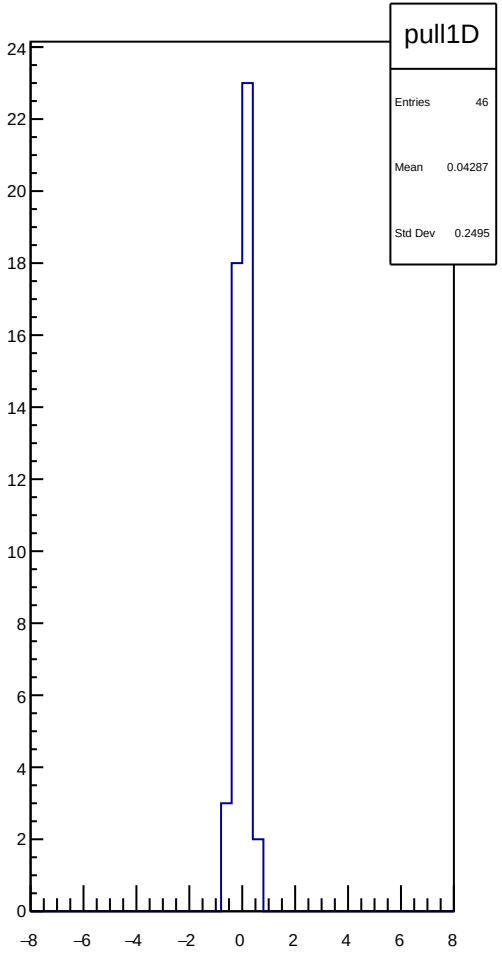

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.4 / 45
p0 −29.24 ± 1.676
pull
Entries 46
Mean 74.92
Std Dev 0
pull1D
Entries 46
Mean −0.1126
Std Dev 0.6395

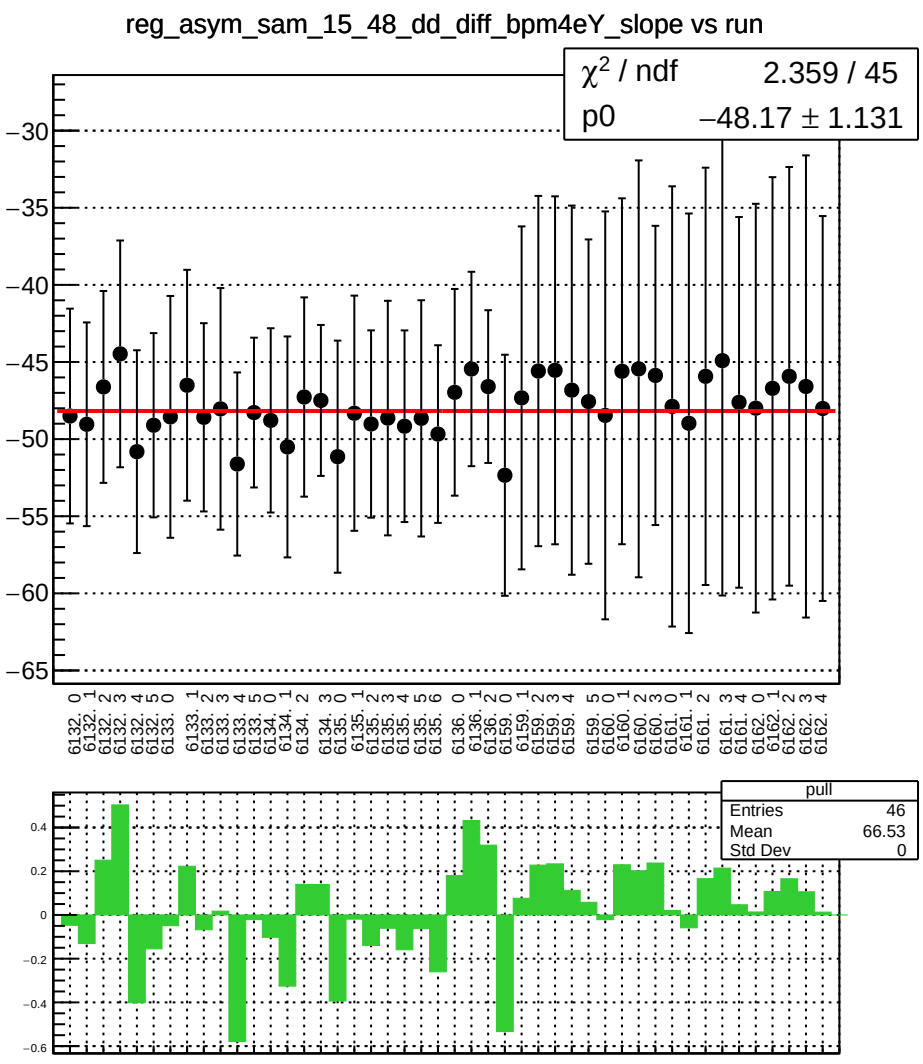

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 2.087 / 45
p0 −0.3025 ± 0.1335
pull
Entries 46
Mean 98.49
Std Dev 0
pull1D
Entries 46
Mean −0.02263
Std Dev 0.2118

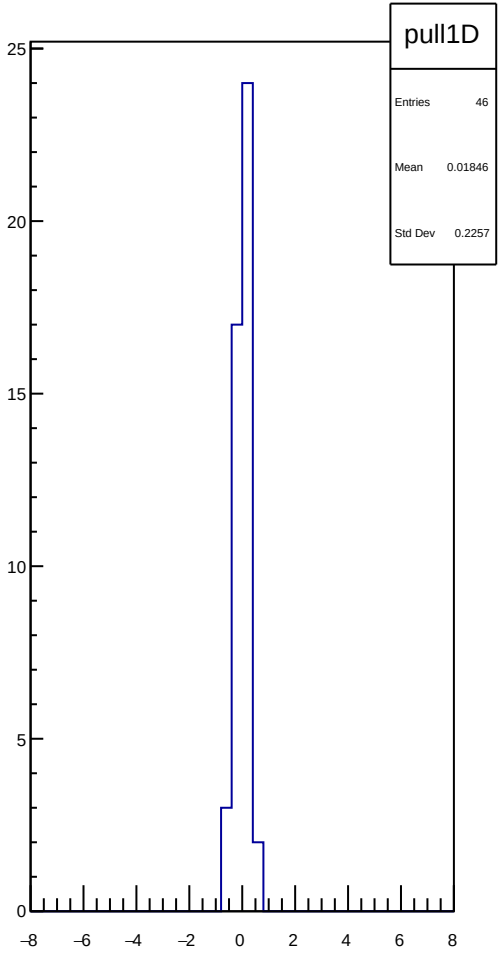

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 3.09 / 45
p0 2.45 ± 0.9167
10
5
0
−5
−10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 73.54
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 46
Mean −0.04544
Std Dev 0.2552
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

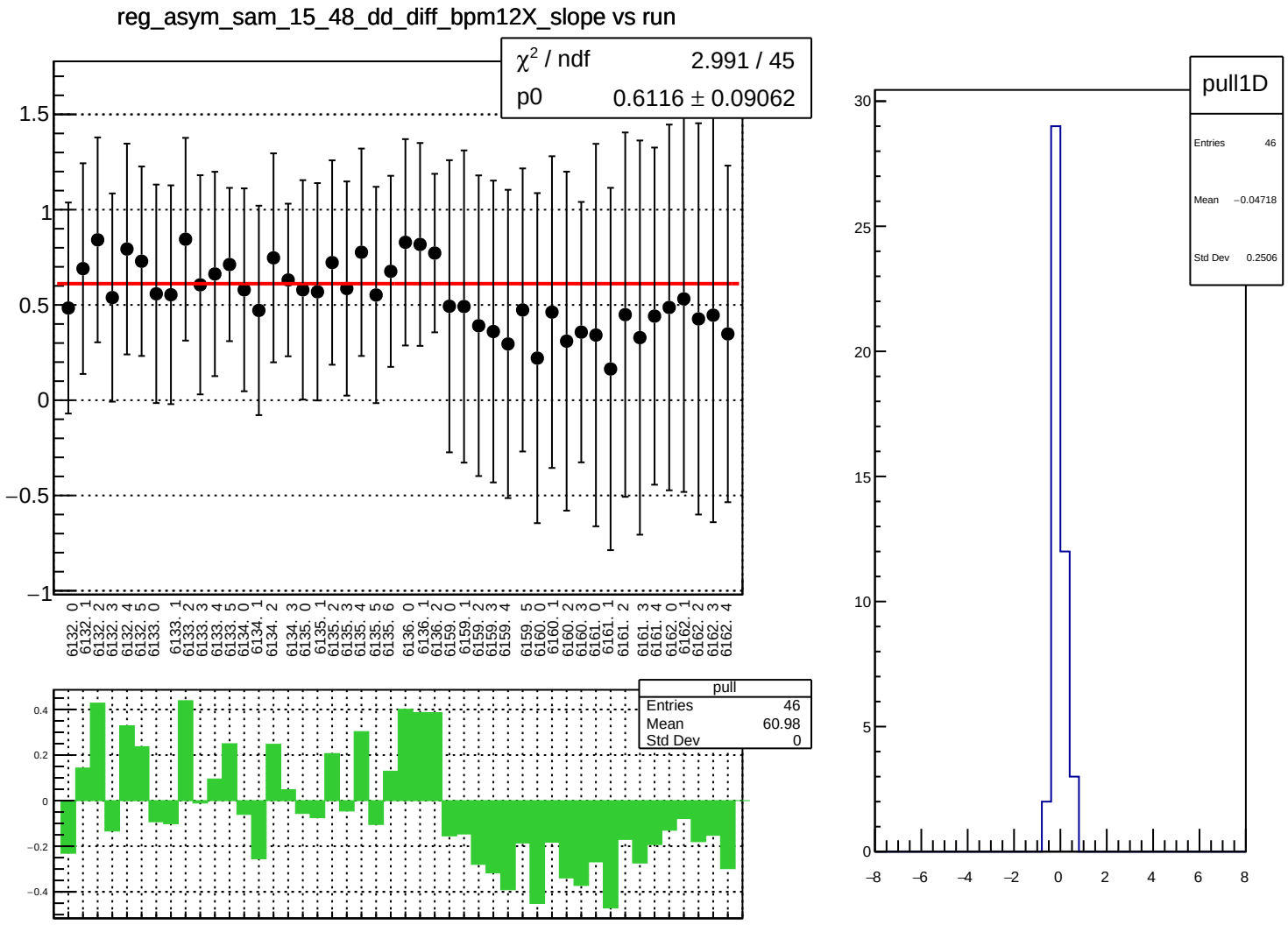

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.105 / 45
p0 6.323 ± 1.06
pull
Entries 46
Mean 53.01
Std Dev 0
pull1D
Entries 46
Mean −0.01265
Std Dev 0.2135

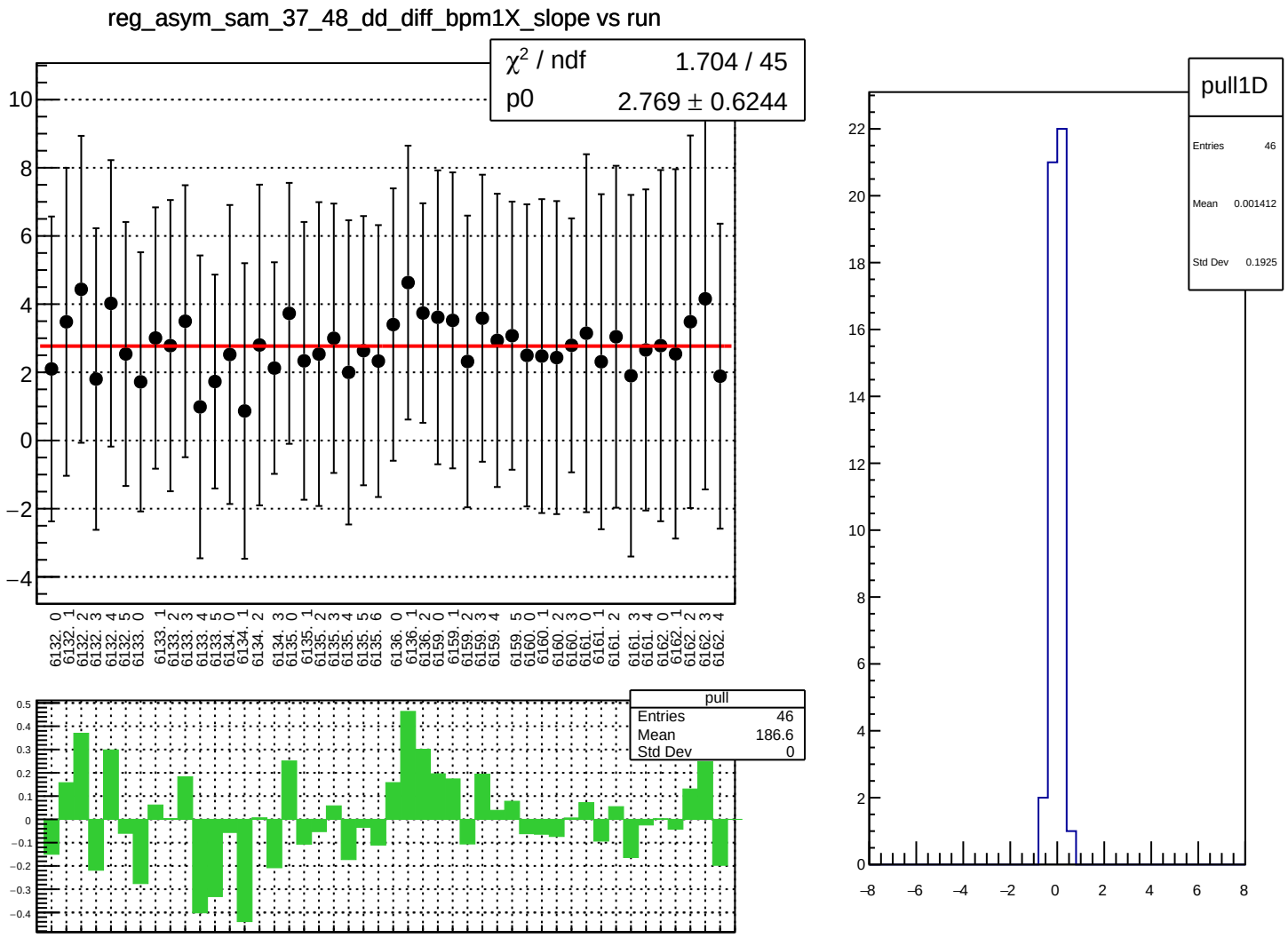

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.949 / 45
p0 52.39 ± 1.121
pull
Entries 46
Mean 71.17
Std Dev 0

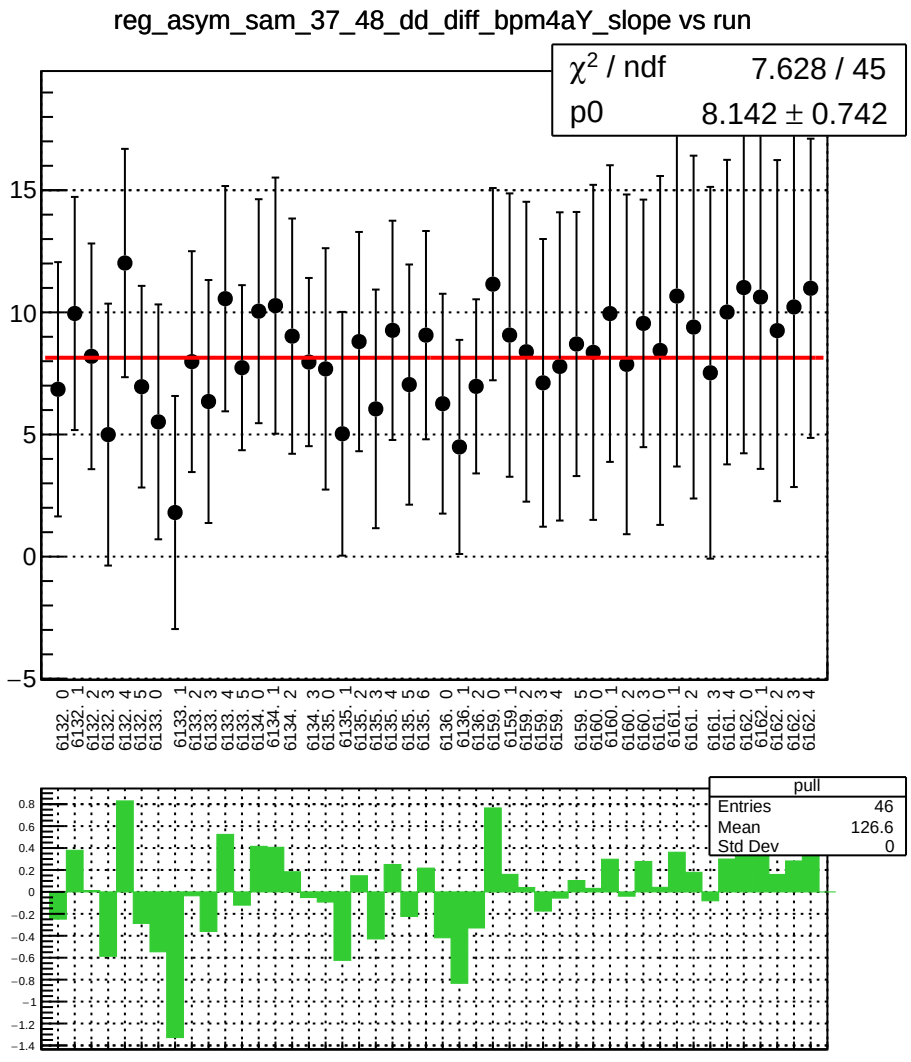

pull1D
Entries 46
Mean 0.04287
Std Dev 0.2495

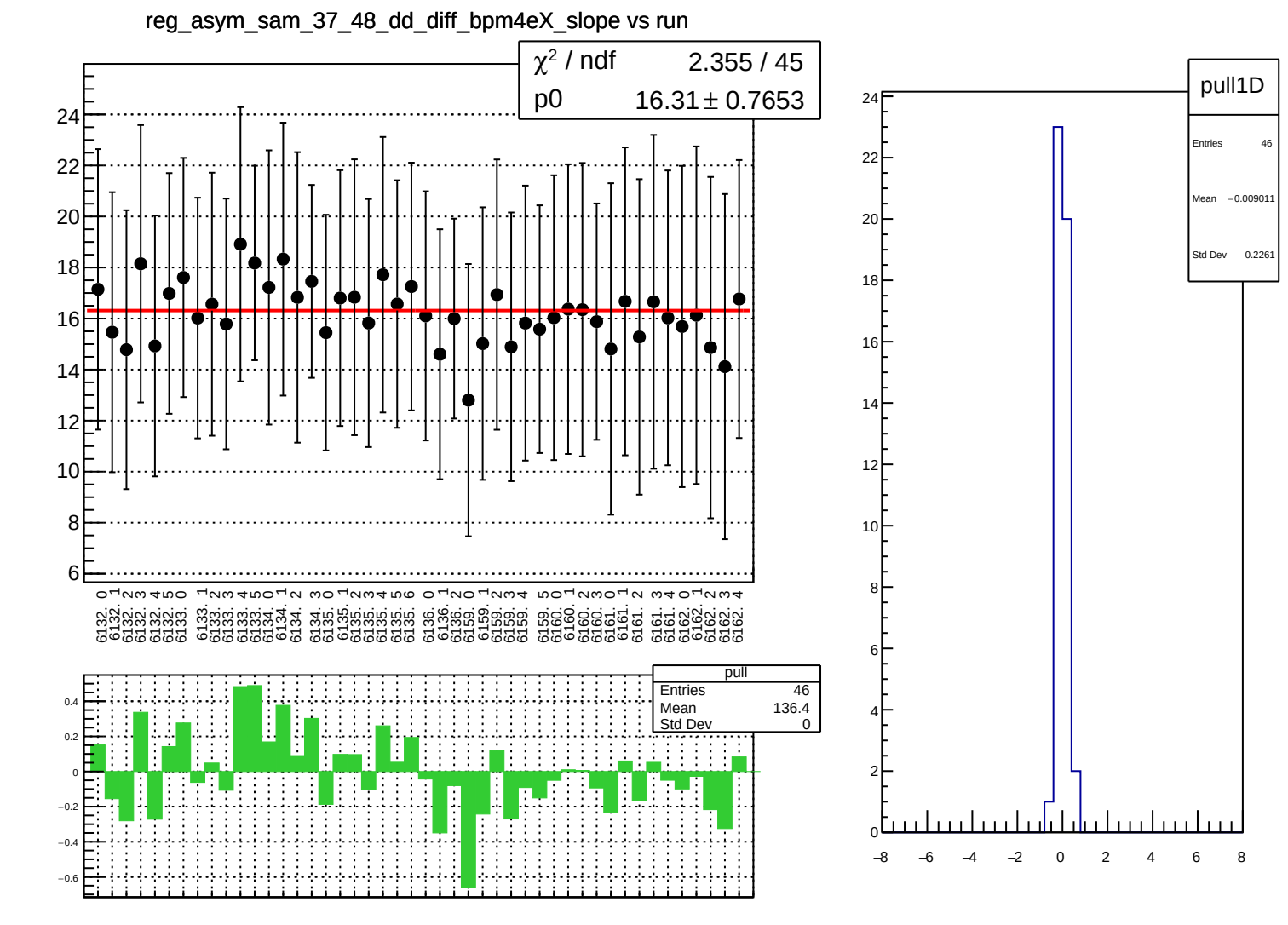

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.359 / 45
p0 −48.17 ± 1.131
pull
Entries 46
Mean 66.53
Std Dev 0

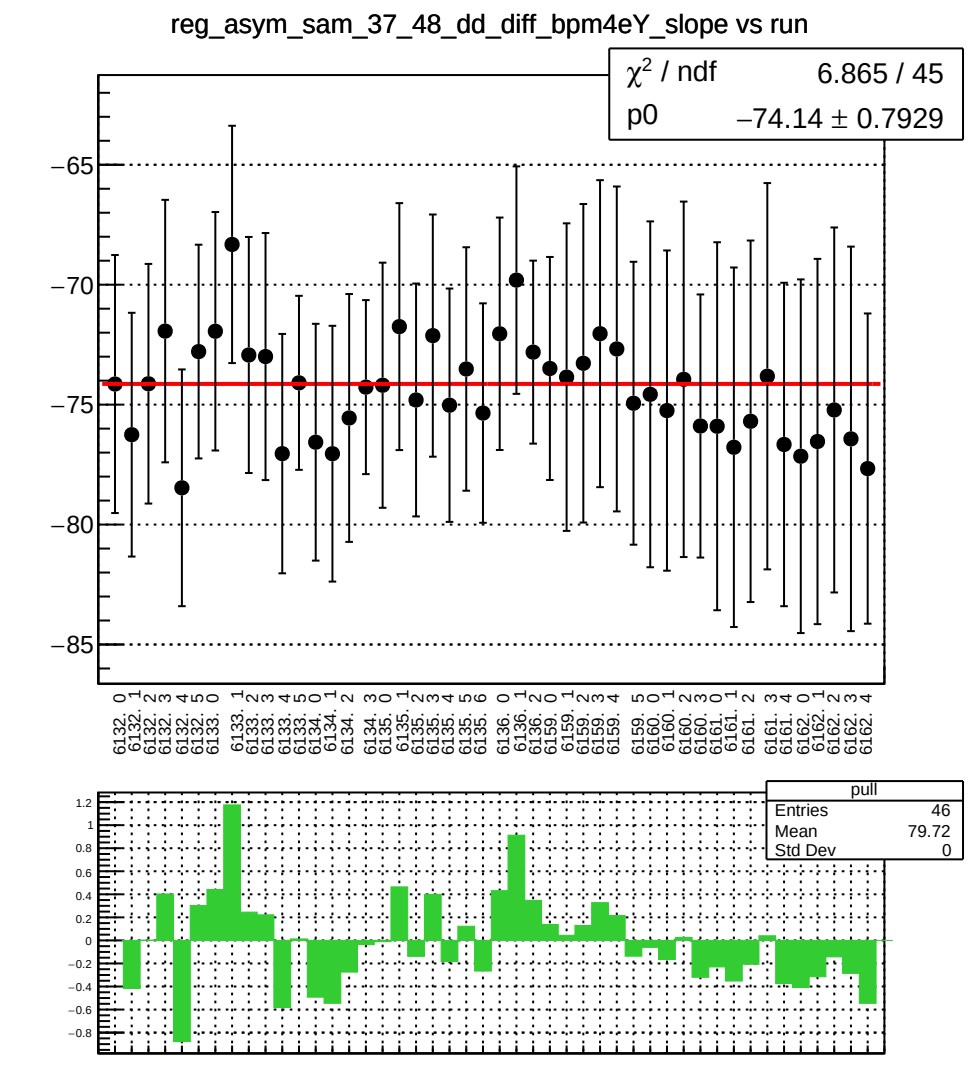

pull1D
Entries 46
Mean 0.01846
Std Dev 0.2257

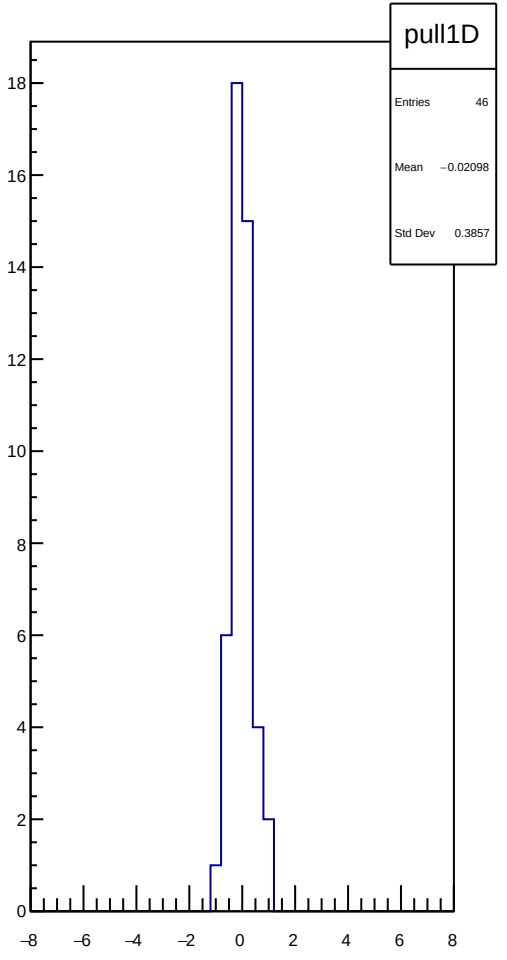

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 2.991 / 45
p0 0.6116 ± 0.09062
pull
Entries 46
Mean 60.98
Std Dev 0
pull1D
Entries 46
Mean −0.04718
Std Dev 0.2506

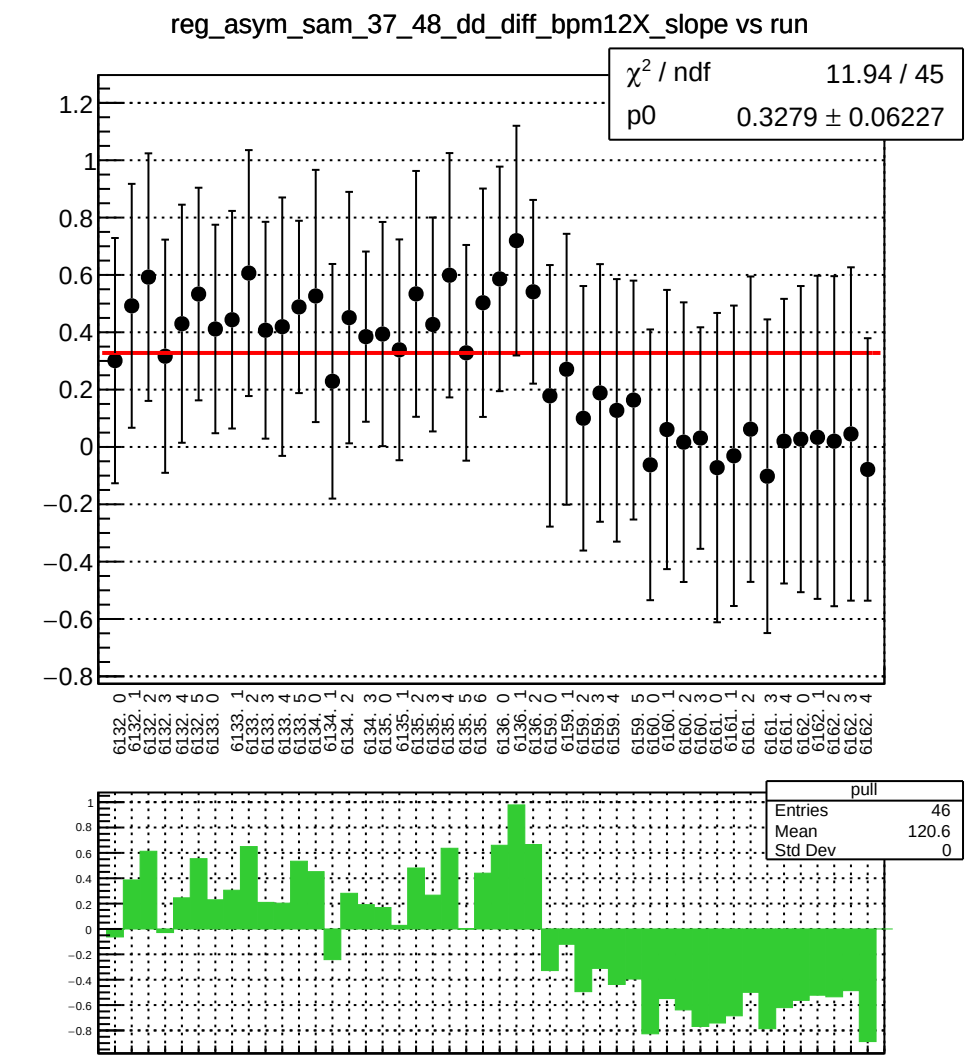

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1.704 / 45
p0 2.769 ± 0.6244
pull
Entries 46
Mean 186.6
Std Dev 0
pull1D
Entries 46
Mean 0.001412
Std Dev 0.1925

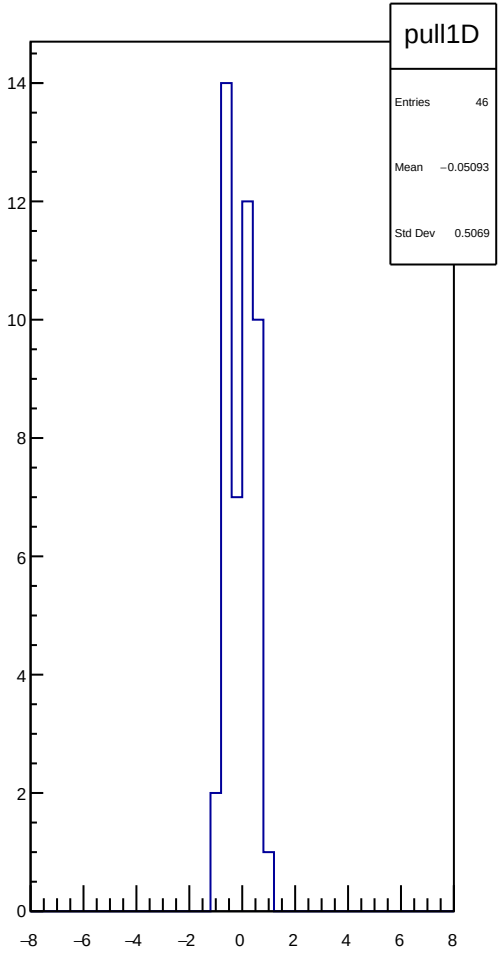

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.628 / 45
p0 8.142 ± 0.742
pull
Entries 46
Mean 126.6
Std Dev 0
pull1D
Entries 46
Mean 0.01621
Std Dev 0.4069

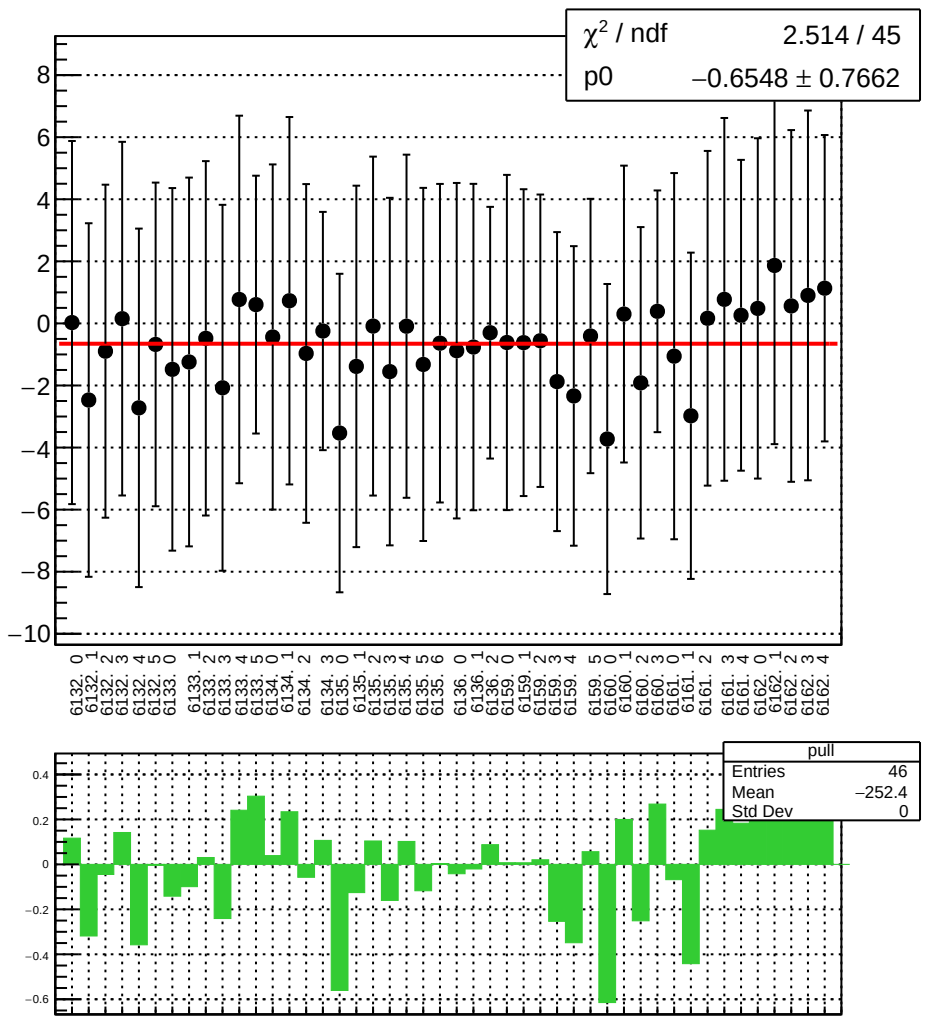

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.355 / 45
p0 16.31 ± 0.7653
pull
Entries 46
Mean 136.4
Std Dev 0
pull1D
Entries 46
Mean −0.009011
Std Dev 0.2261

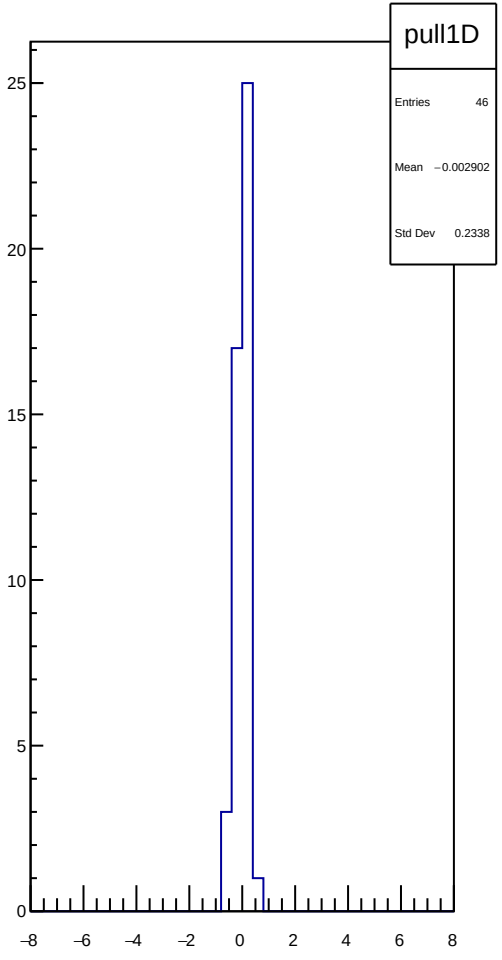

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.865 / 45
p0 −74.14 ± 0.7929
−65
−70
−75
−80
−85
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 79.72
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

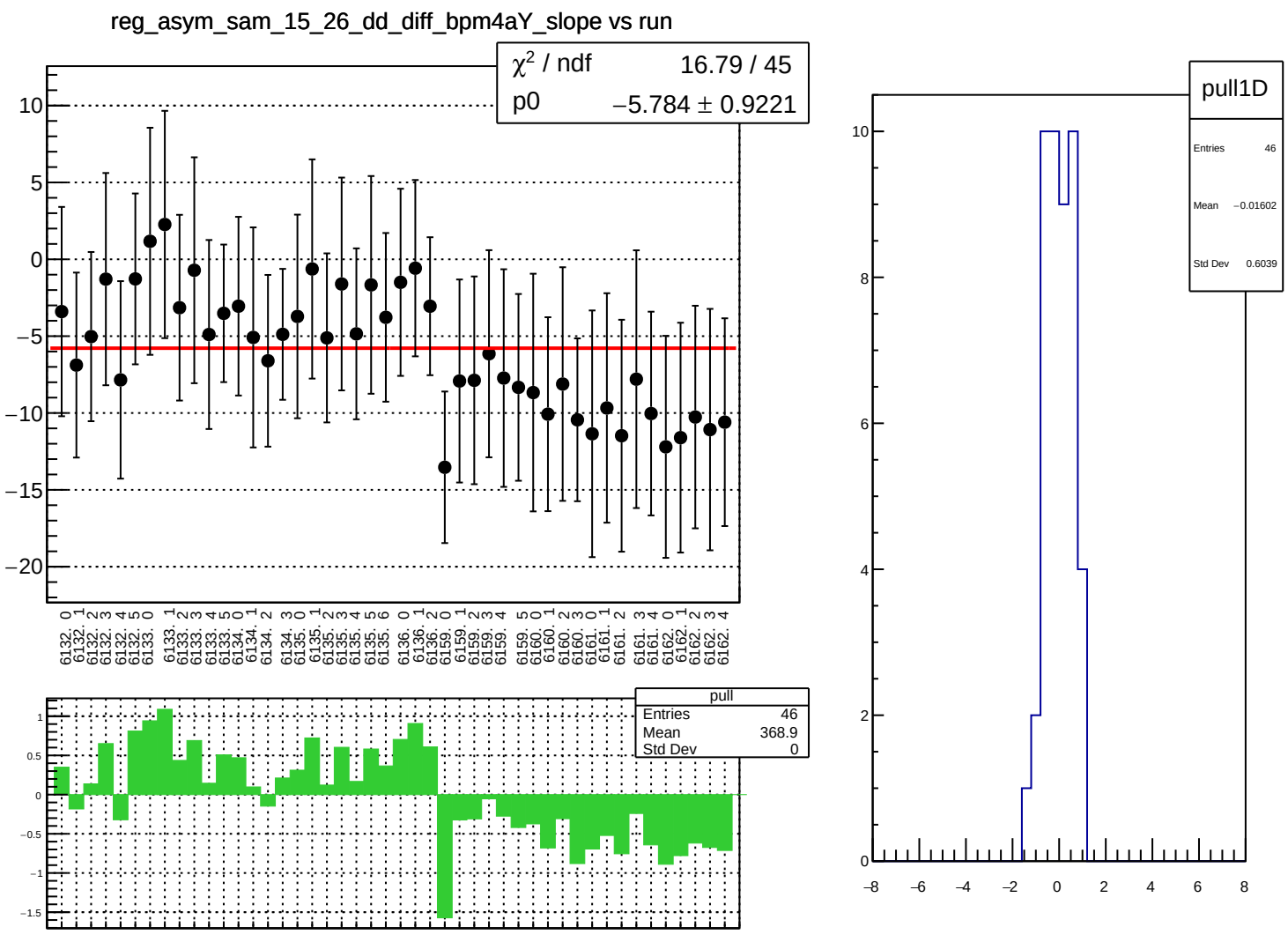

pull1D
Entries 46
Mean −0.02098
Std Dev 0.3857
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

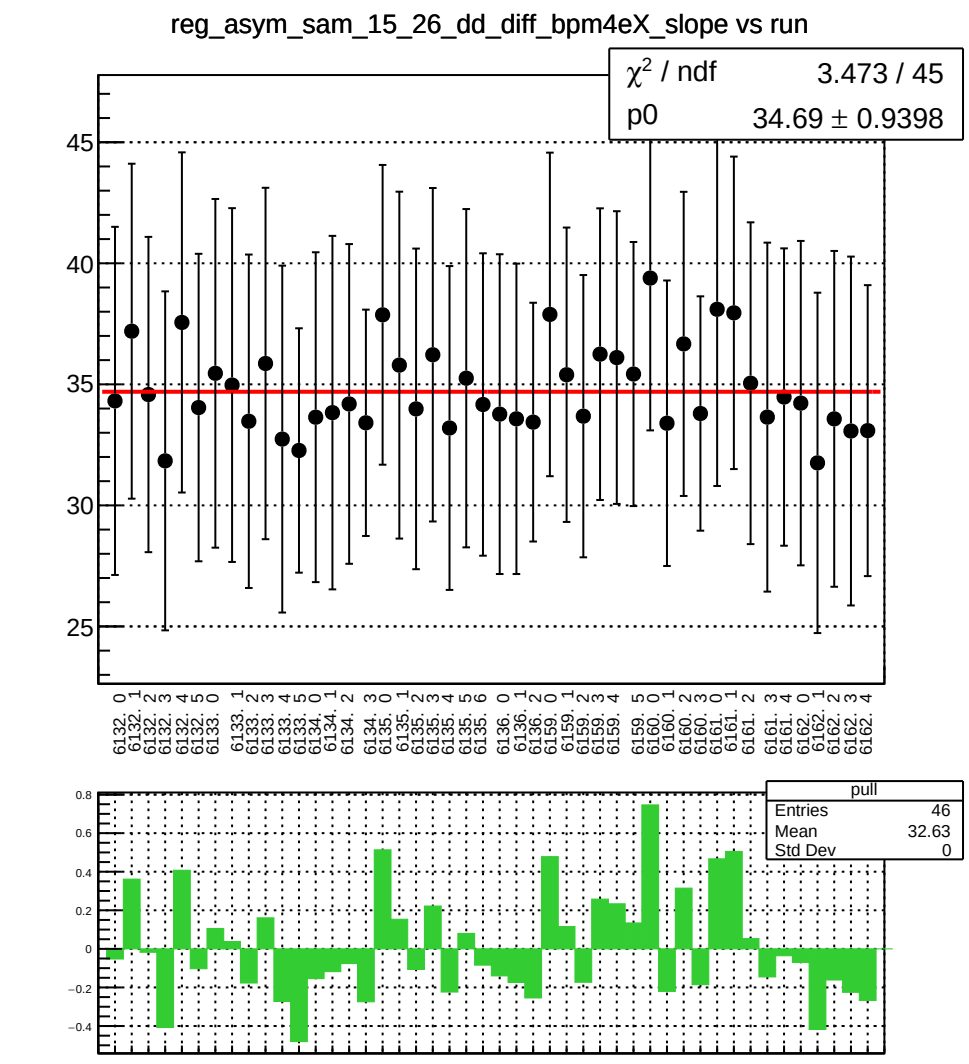

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 11.94 / 45
p0 0.3279 ± 0.06227
pull
Entries 46
Mean 120.6
Std Dev 0

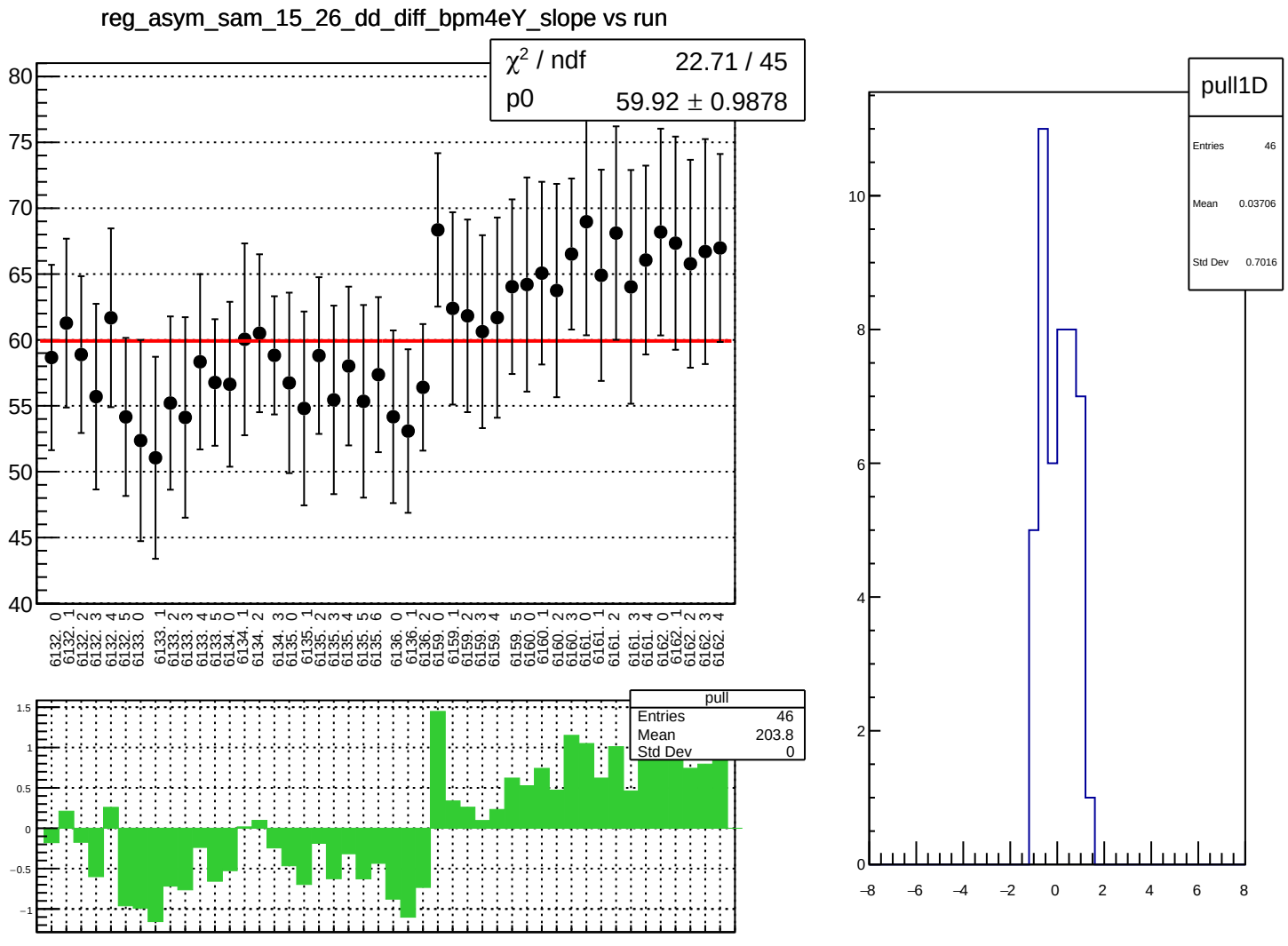

pull1D
Entries 46
Mean −0.05093
Std Dev 0.5069

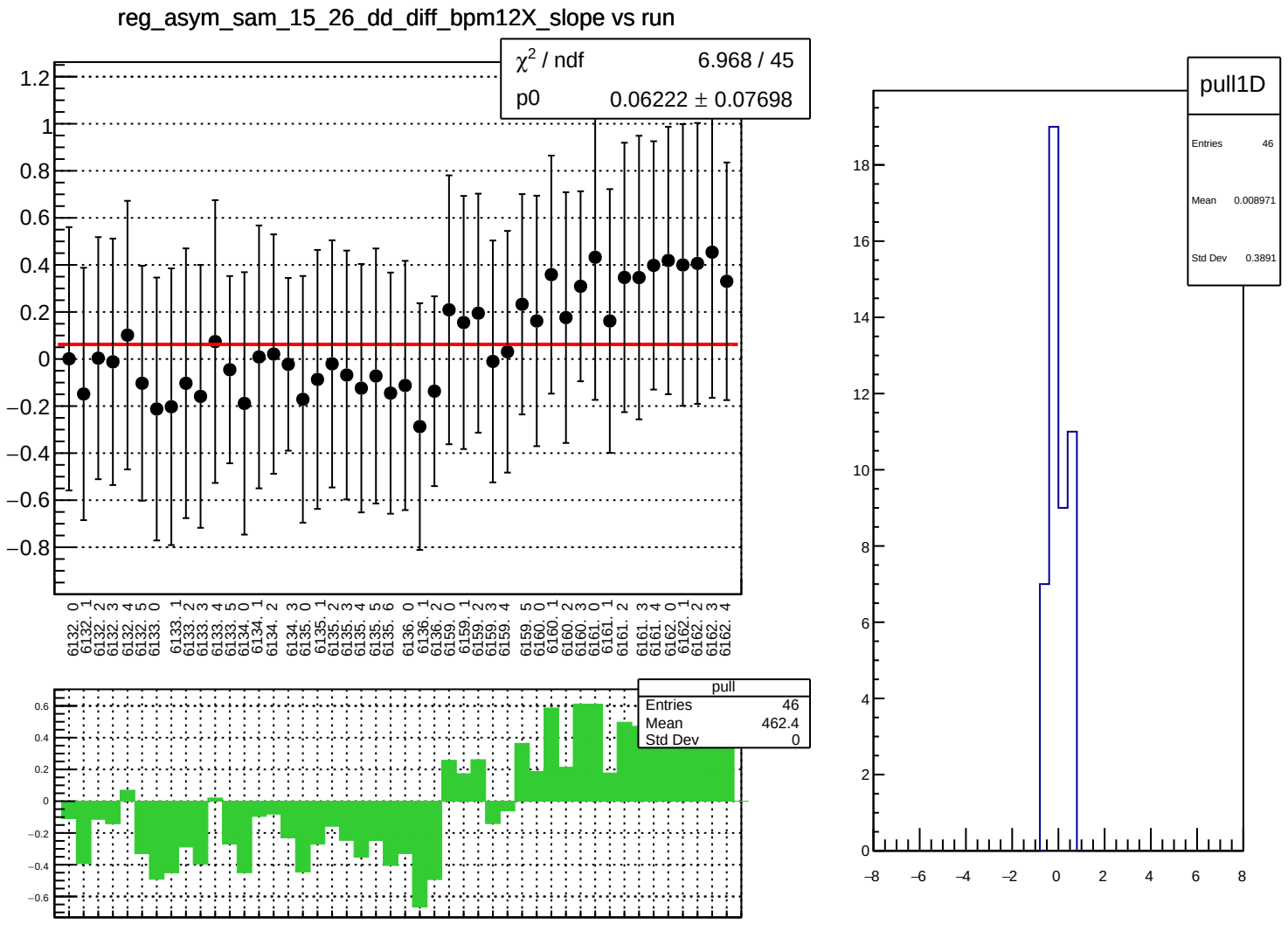

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 2.514 / 45
p0 −0.6548 ± 0.7662
pull
Entries 46
Mean −252.4
Std Dev 0

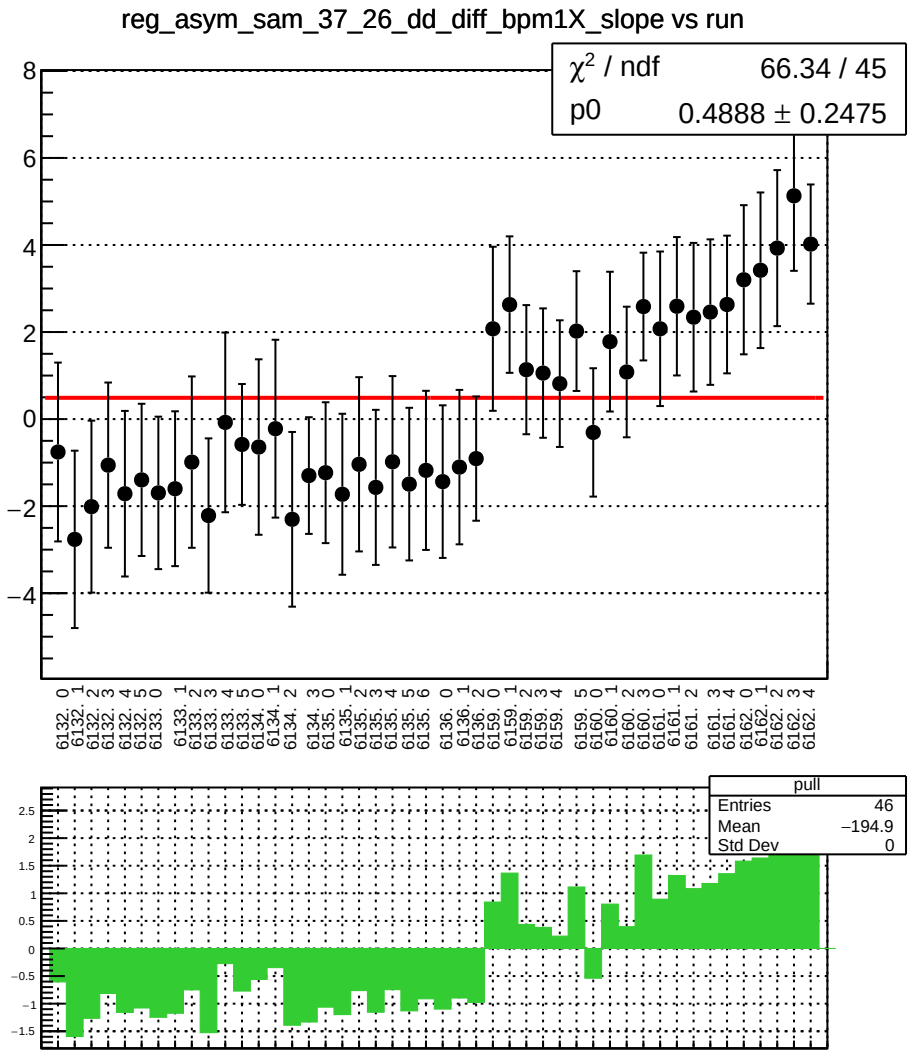

pull1D
Entries 46
Mean −0.002902
Std Dev 0.2338

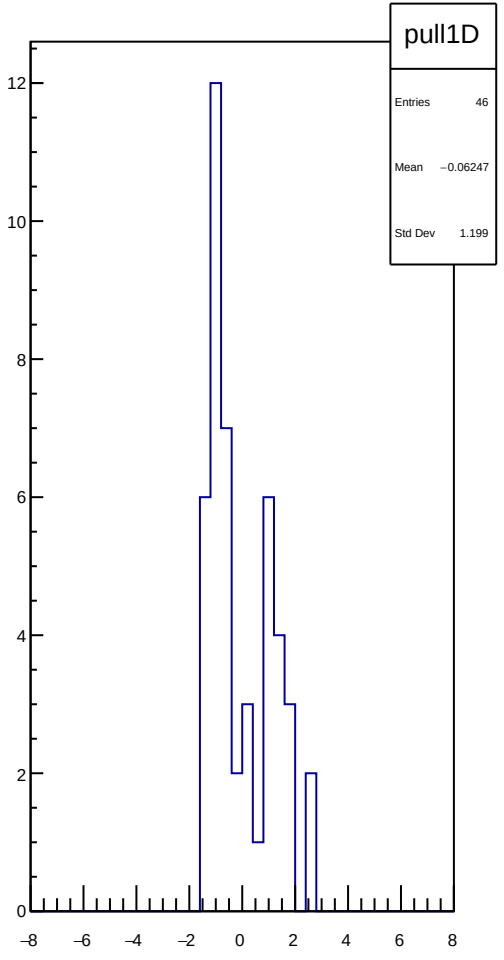

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.79 / 45
p0 −5.784 ± 0.9221
pull
Entries 46
Mean 368.9
Std Dev 0
pull1D
Entries 46
Mean −0.01602
Std Dev 0.6039

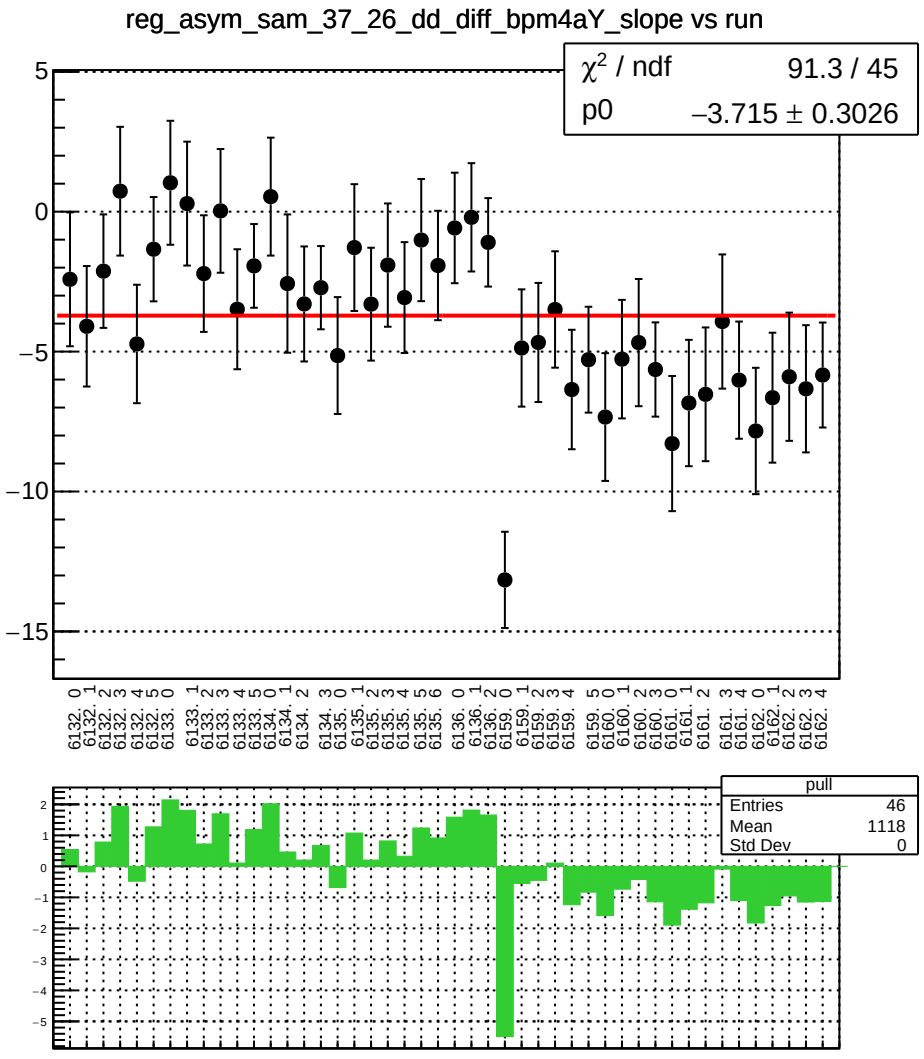

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.473 / 45
p0 34.69 ± 0.9398
45
40
35
30
25
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 32.63
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 46
Mean 0.007132
Std Dev 0.2747
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

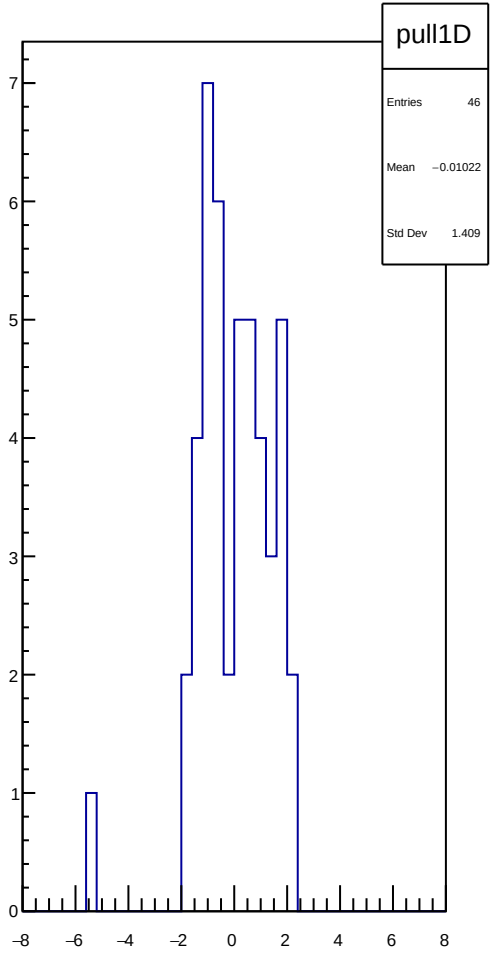

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.71 / 45
p0 59.92 ± 0.9878
pull
Entries 46
Mean 203.8
Std Dev 0
pull1D
Entries 46
Mean 0.03706
Std Dev 0.7016

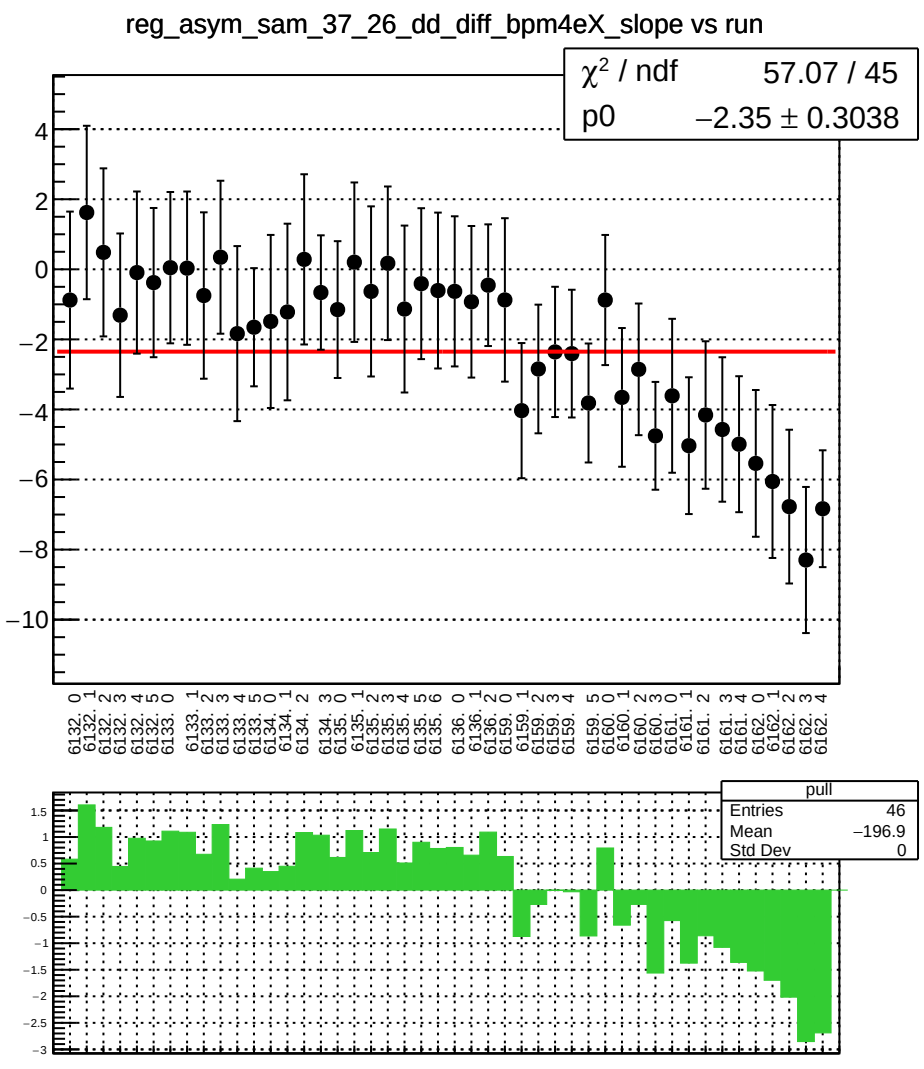

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 6.968 / 45
p0 0.06222 ± 0.07698
pull
Entries 46
Mean 462.4
Std Dev 0
pull1D
Entries 46
Mean 0.008971
Std Dev 0.3891

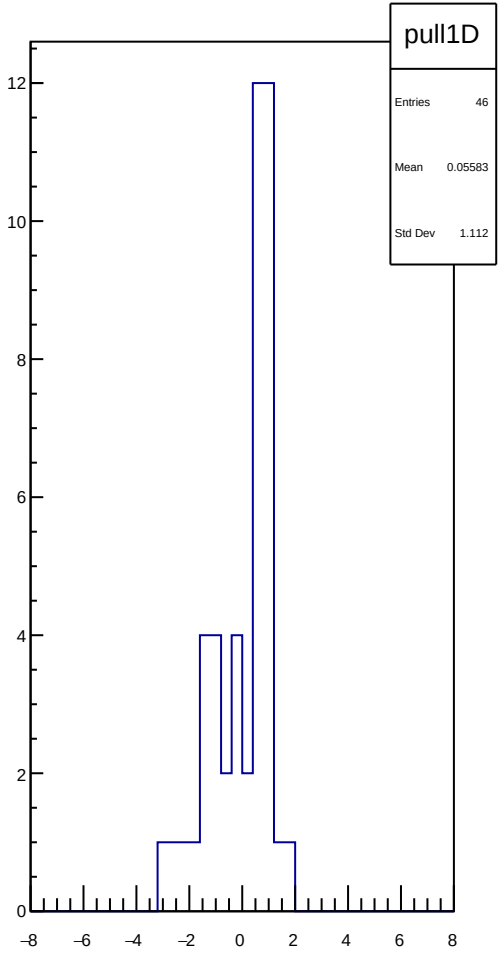

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 66.34 / 45
p0 0.4888 ± 0.2475
pull
Entries 46
Mean −194.9
Std Dev 0

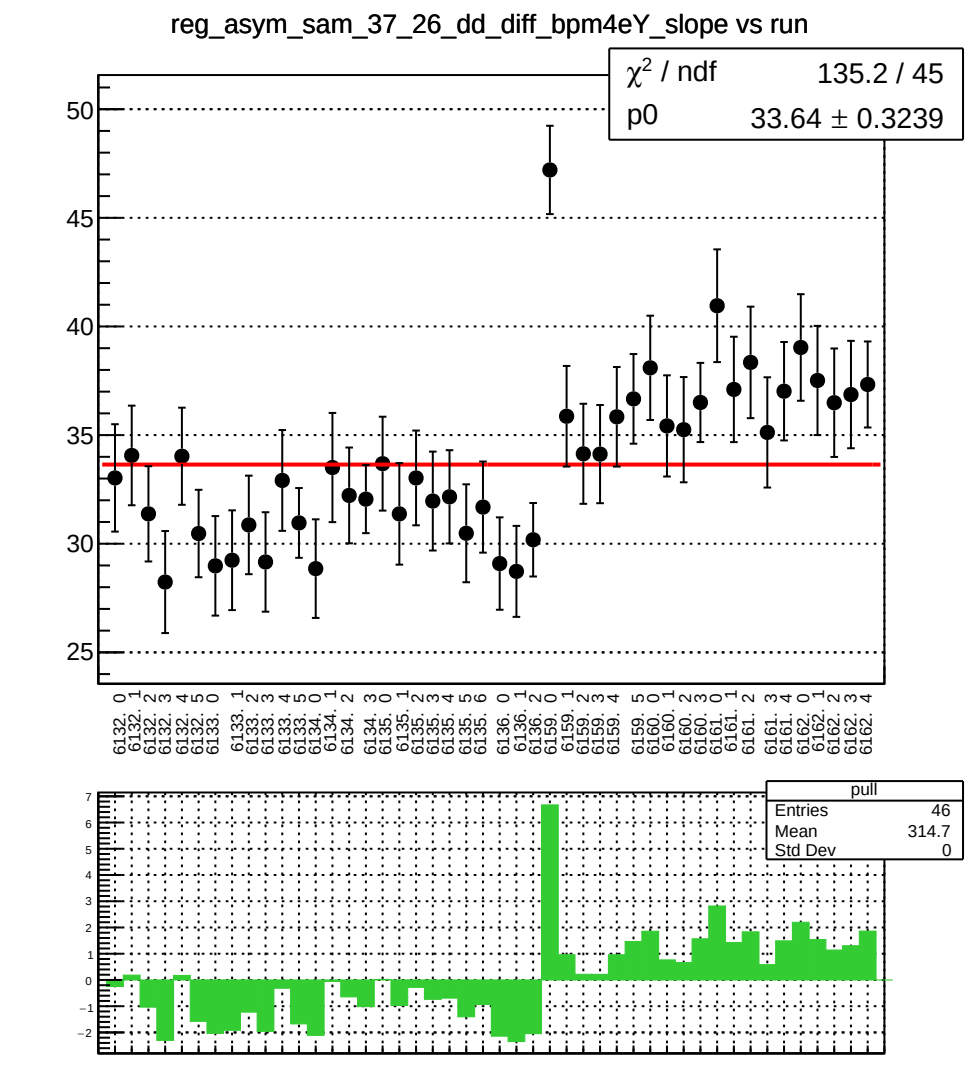

pull1D
Entries 46
Mean −0.06247
Std Dev 1.199

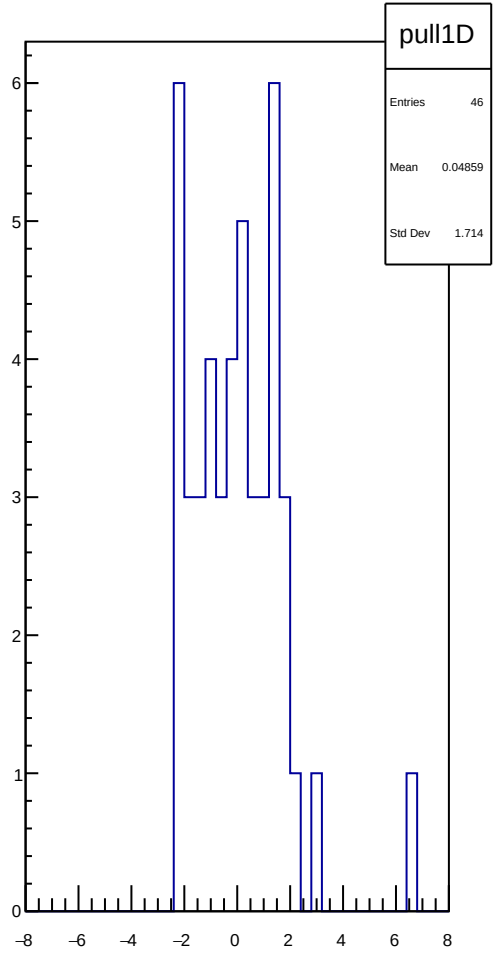

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 91.3 / 45
p0 −3.715 ± 0.3026
pull
Entries 46
Mean 1118
Std Dev 0

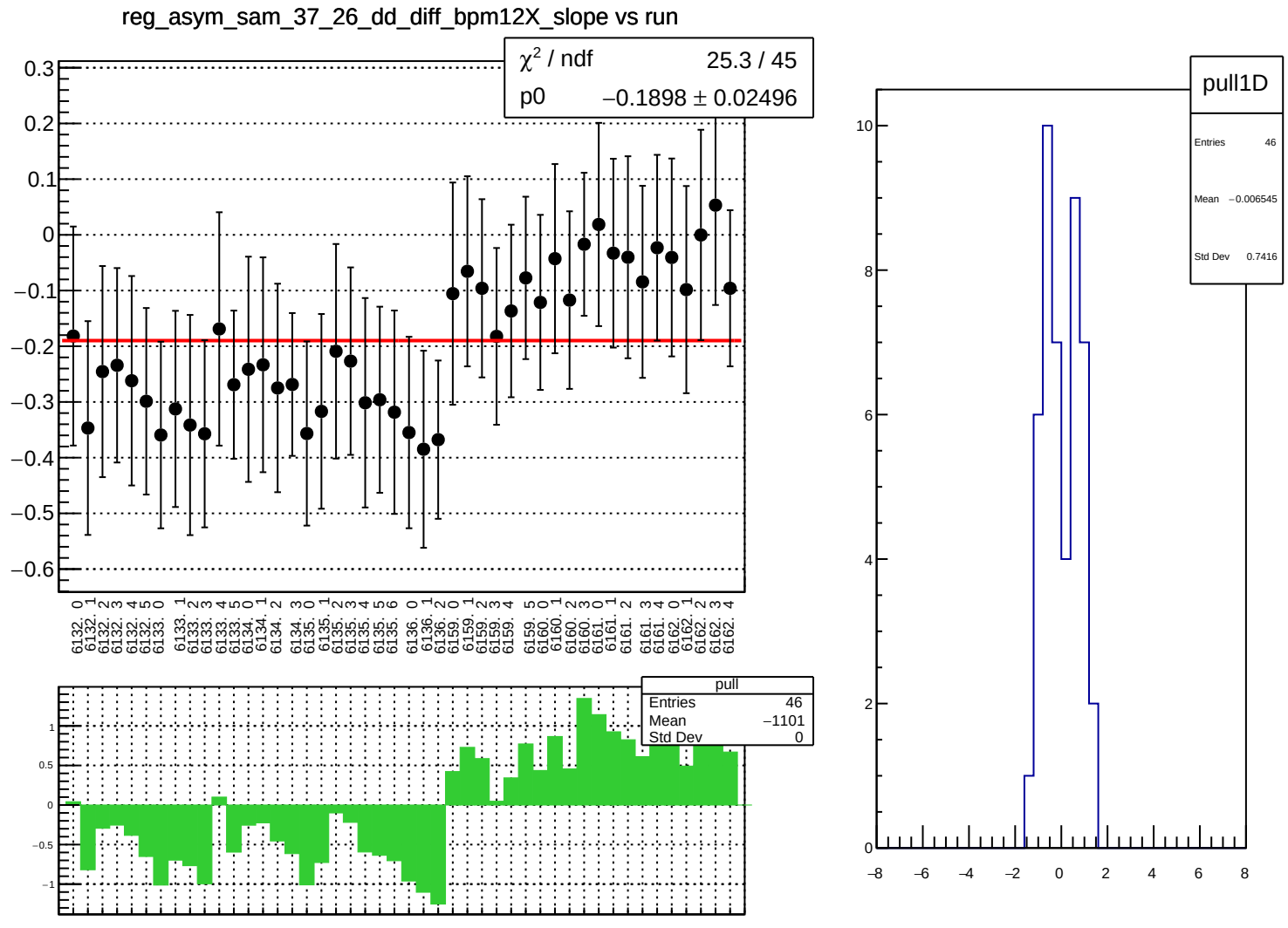

pull1D
Entries 46
Mean −0.01022
Std Dev 1.409

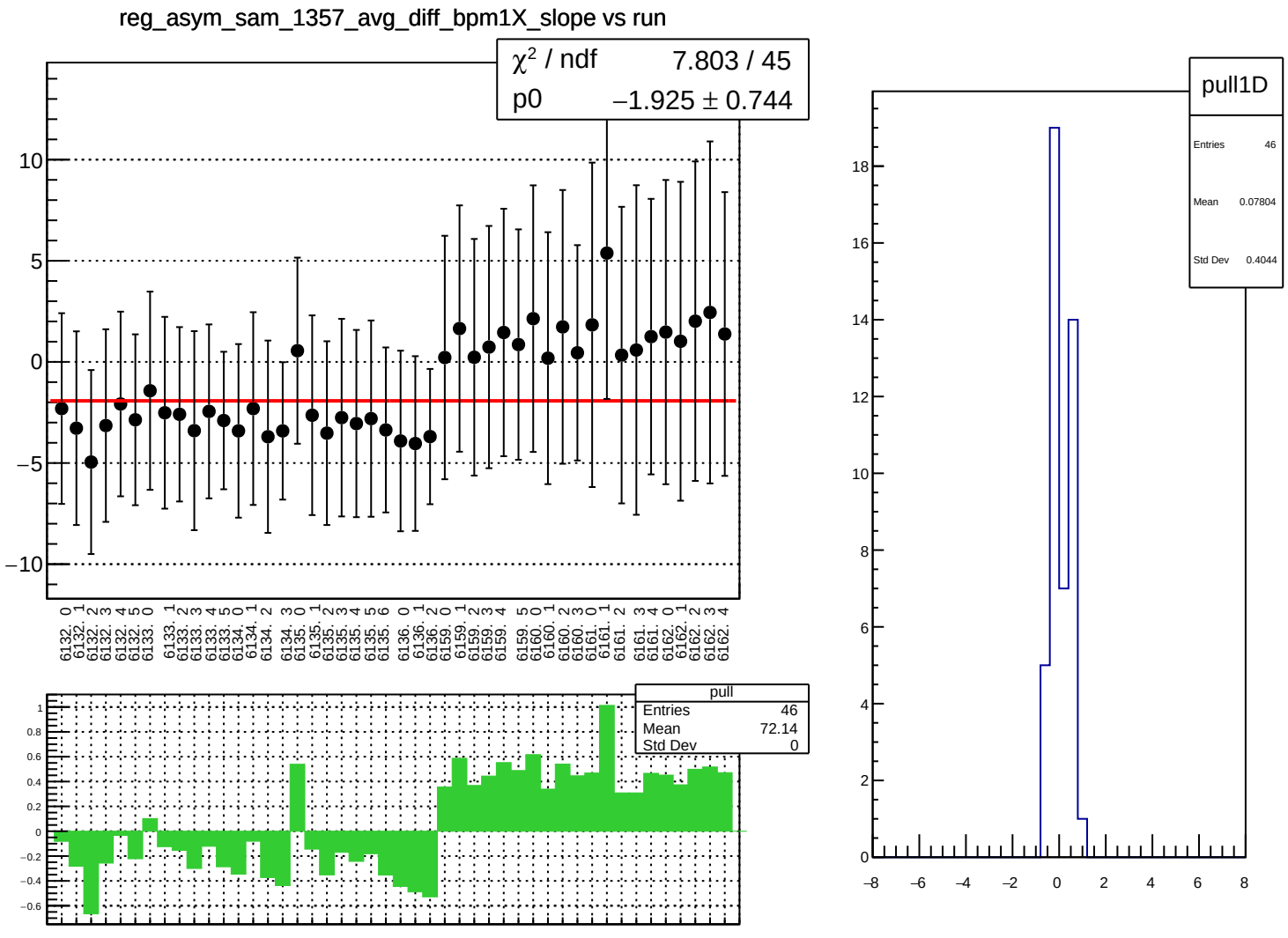

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.07 / 45
p0 −2.35 ± 0.3038
pull
Entries 46
Mean −196.9
Std Dev 0

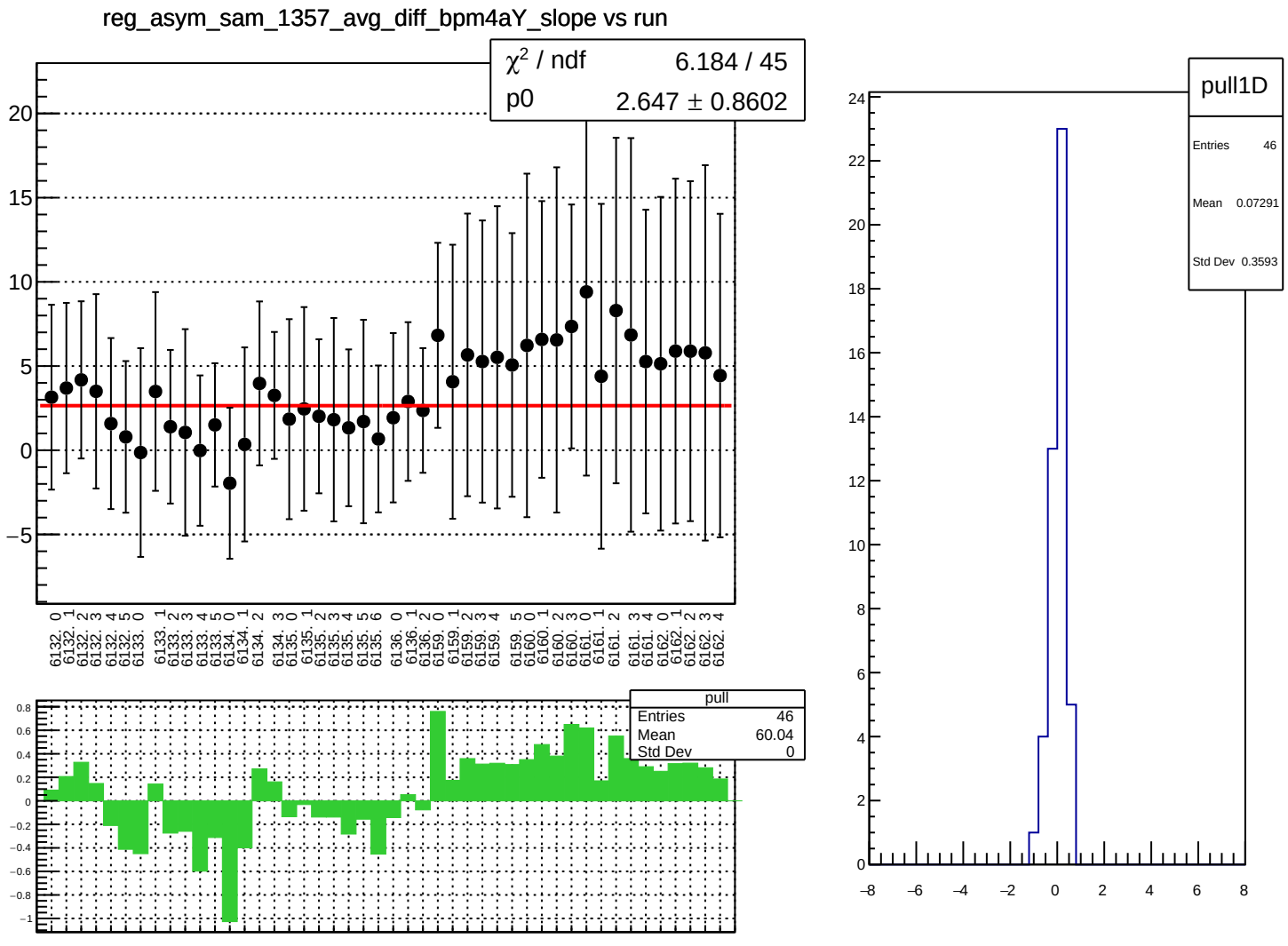

pull1D
Entries 46
Mean 0.05583
Std Dev 1.112

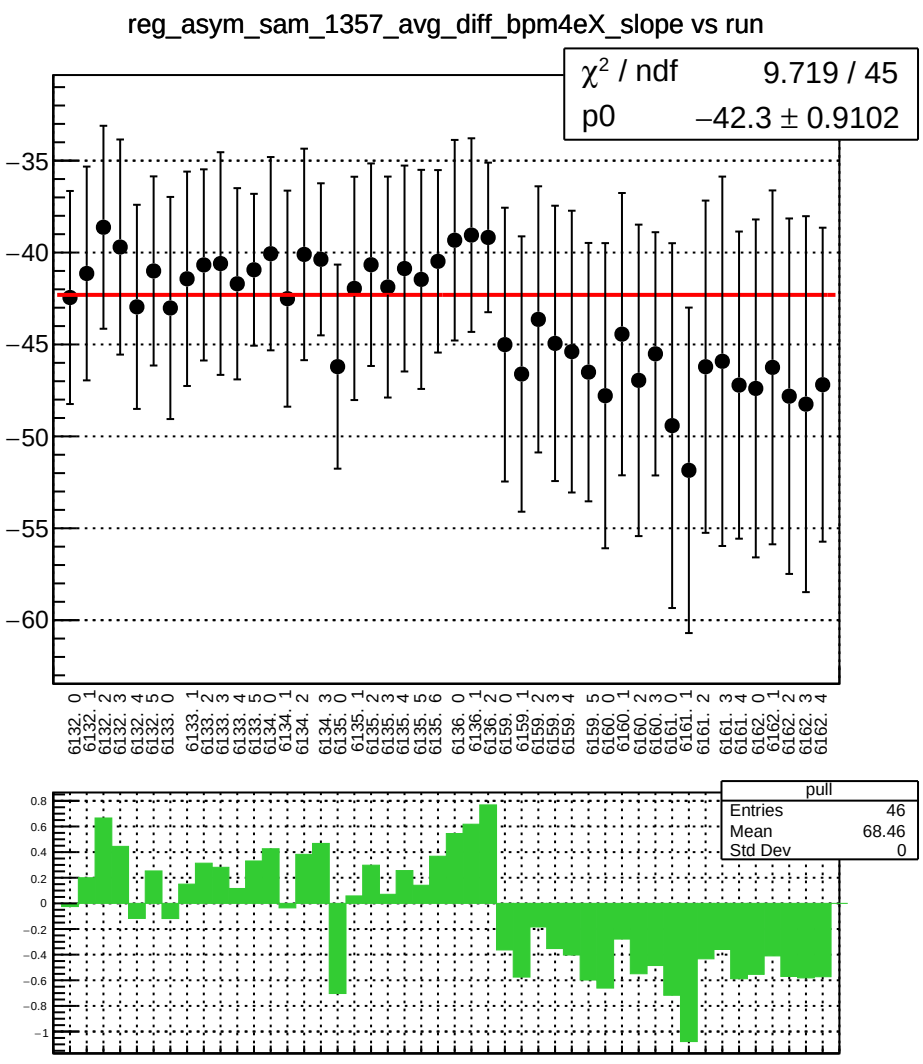

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 135.2 / 45
p0 33.64 ± 0.3239
pull
Entries 46
Mean 314.7
Std Dev 0

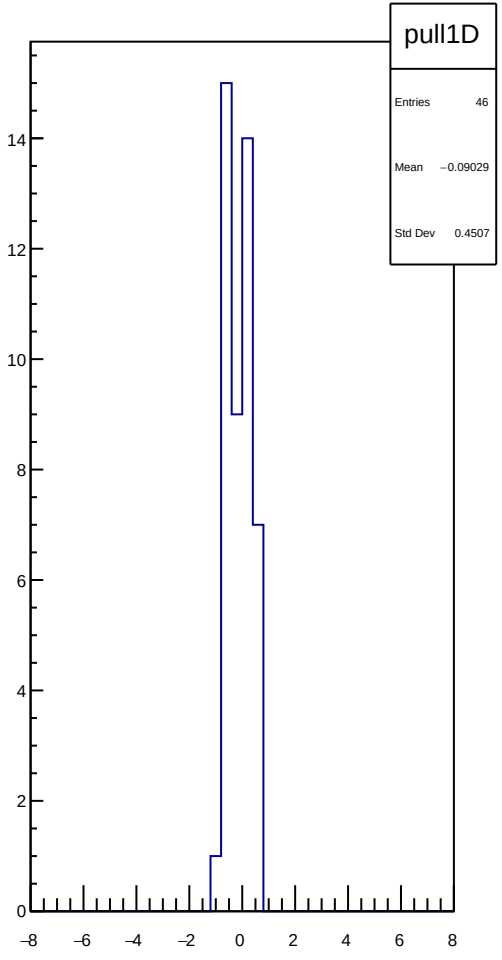

pull1D
Entries 46
Mean 0.04859
Std Dev 1.714

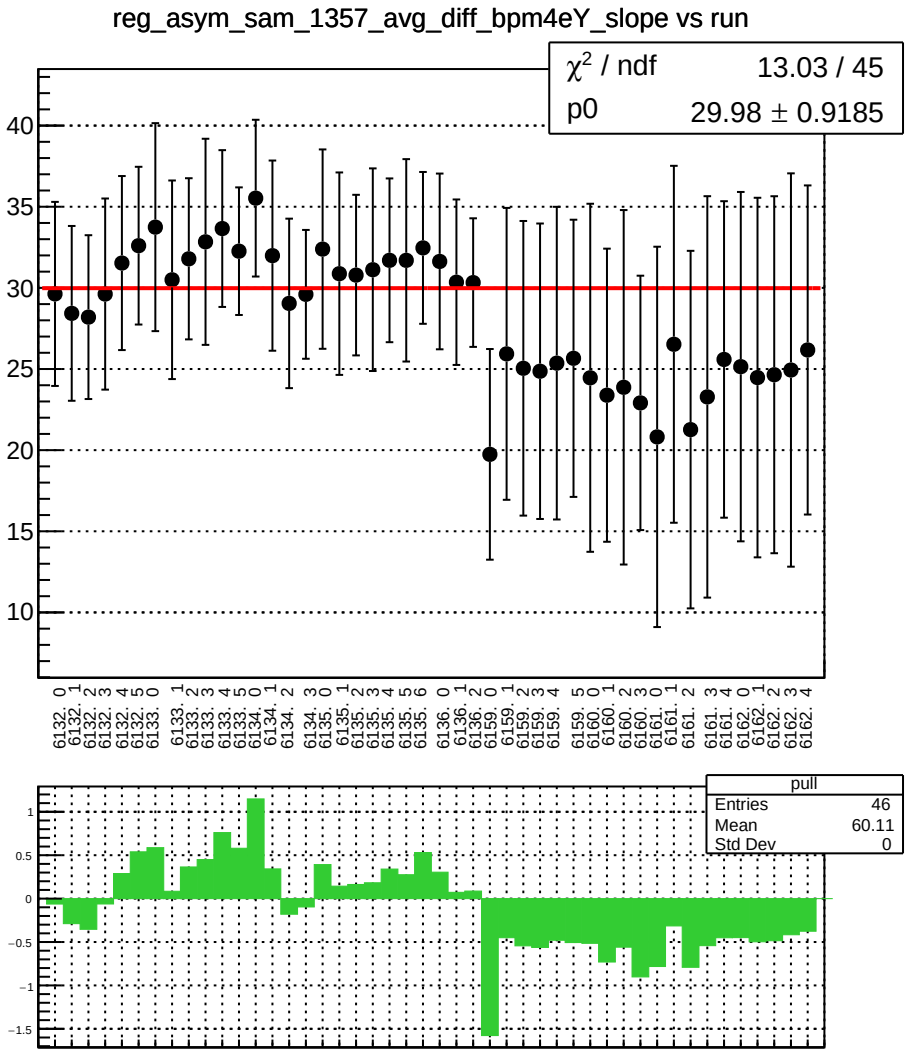

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 25.3 / 45
p0 −0.1898 ± 0.02496
pull
Entries 46
Mean −1101
Std Dev 0
pull1D
Entries 46
Mean −0.006545
Std Dev 0.7416

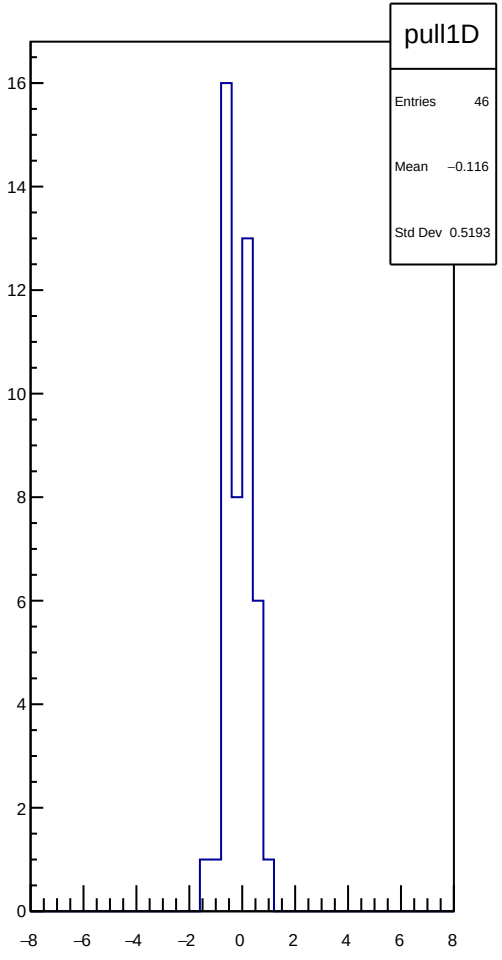

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 7.803 / 45
p0 −1.925 ± 0.744
10
5
0
−5
−10
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 72.14
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 46
Mean 0.07804
Std Dev 0.4044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

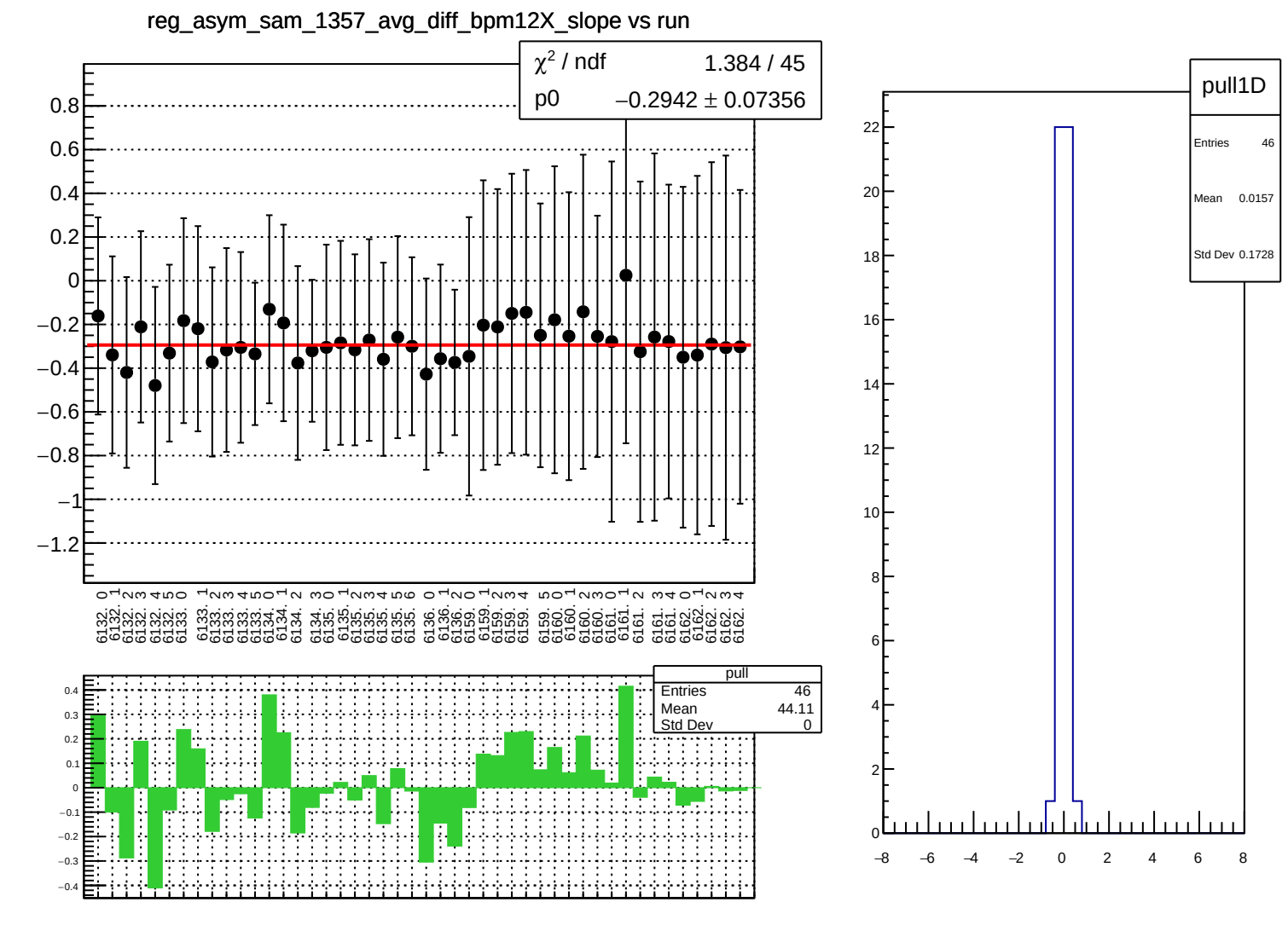

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.184 / 45
p0 2.647 ± 0.8602
pull
Entries 46
Mean 60.04
Std Dev 0
pull1D
Entries 46
Mean 0.07291
Std Dev 0.3593

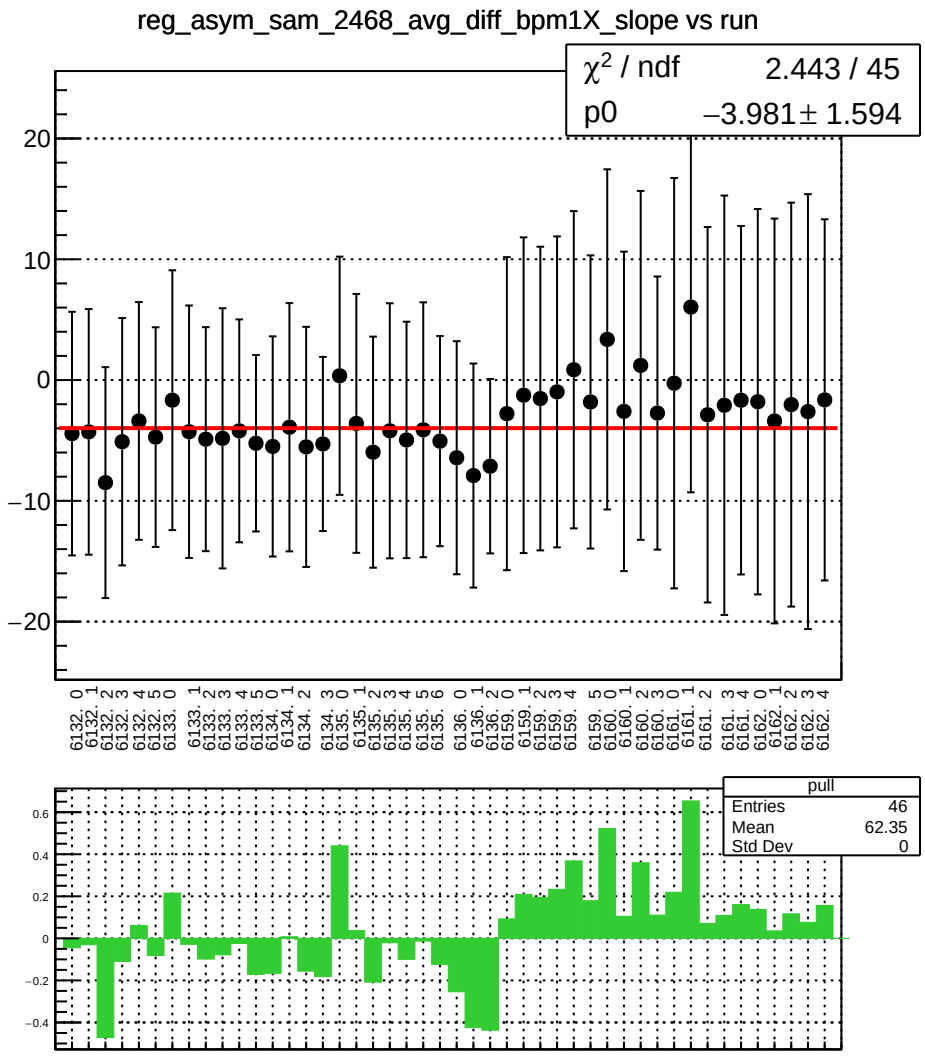

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.719 / 45
p0 −42.3 ± 0.9102
pull
Entries 46
Mean 68.46
Std Dev 0

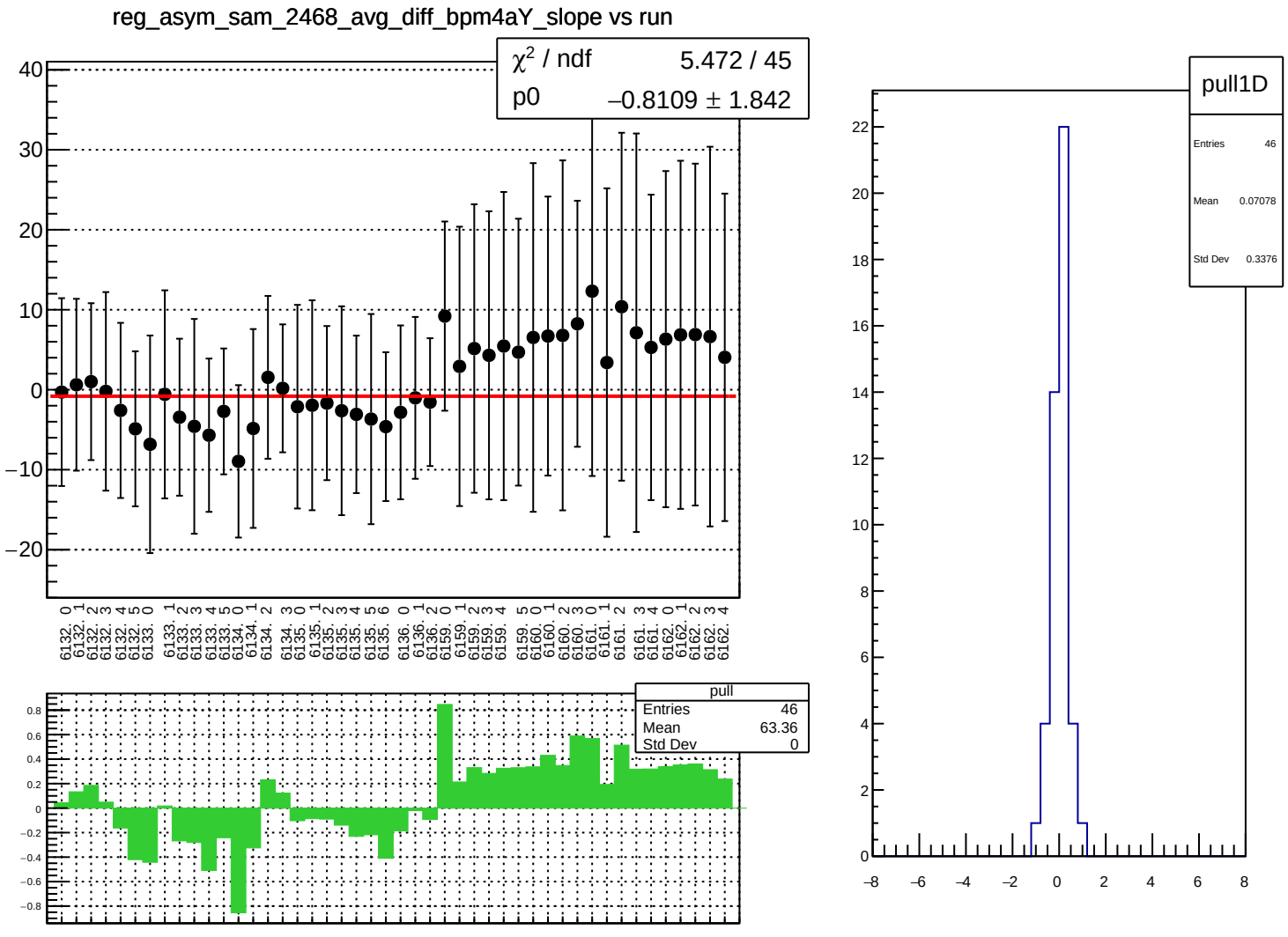

pull1D
Entries 46
Mean −0.09029
Std Dev 0.4507

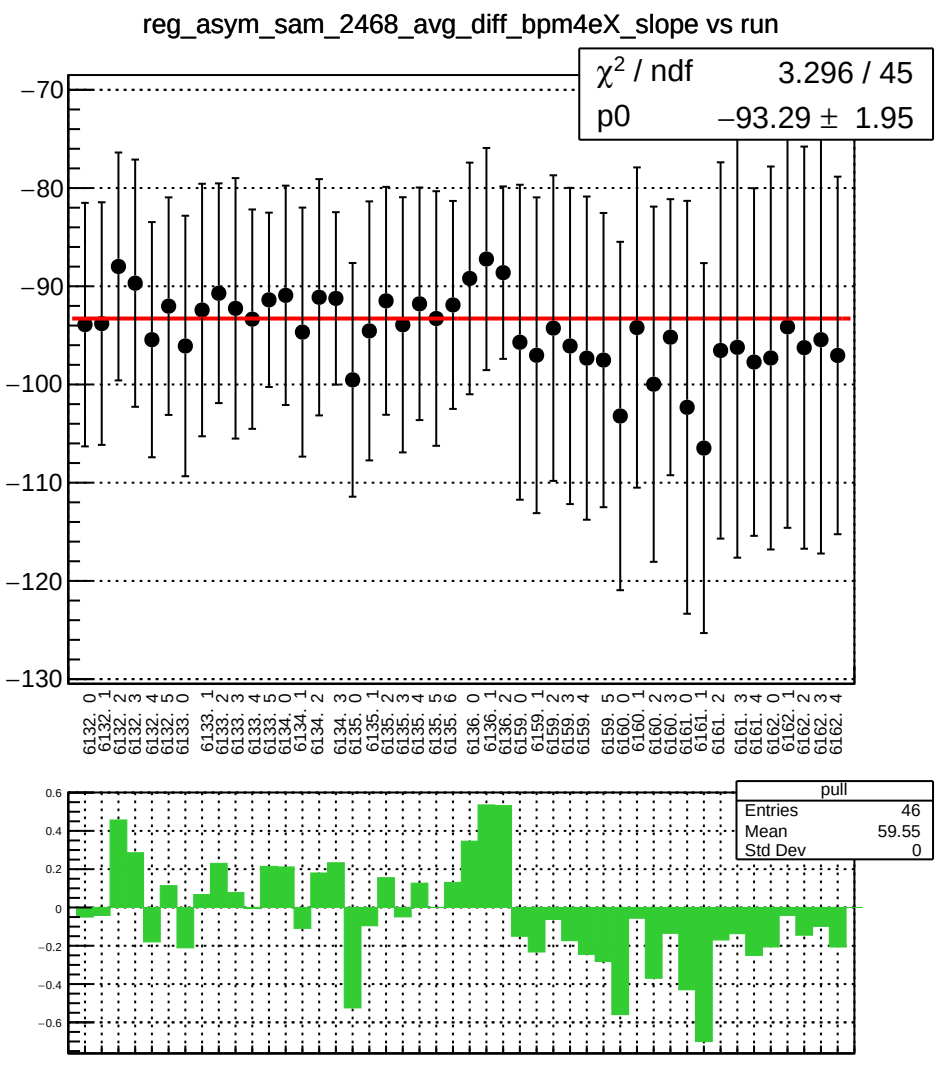

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.03 / 45
p0 29.98 ± 0.9185
pull
Entries 46
Mean 60.11
Std Dev 0

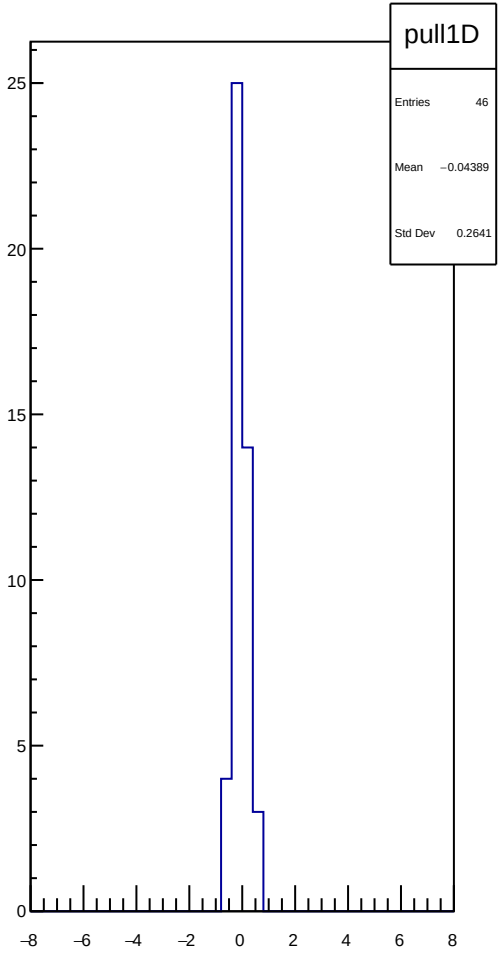

pull1D
Entries 46
Mean −0.116
Std Dev 0.5193

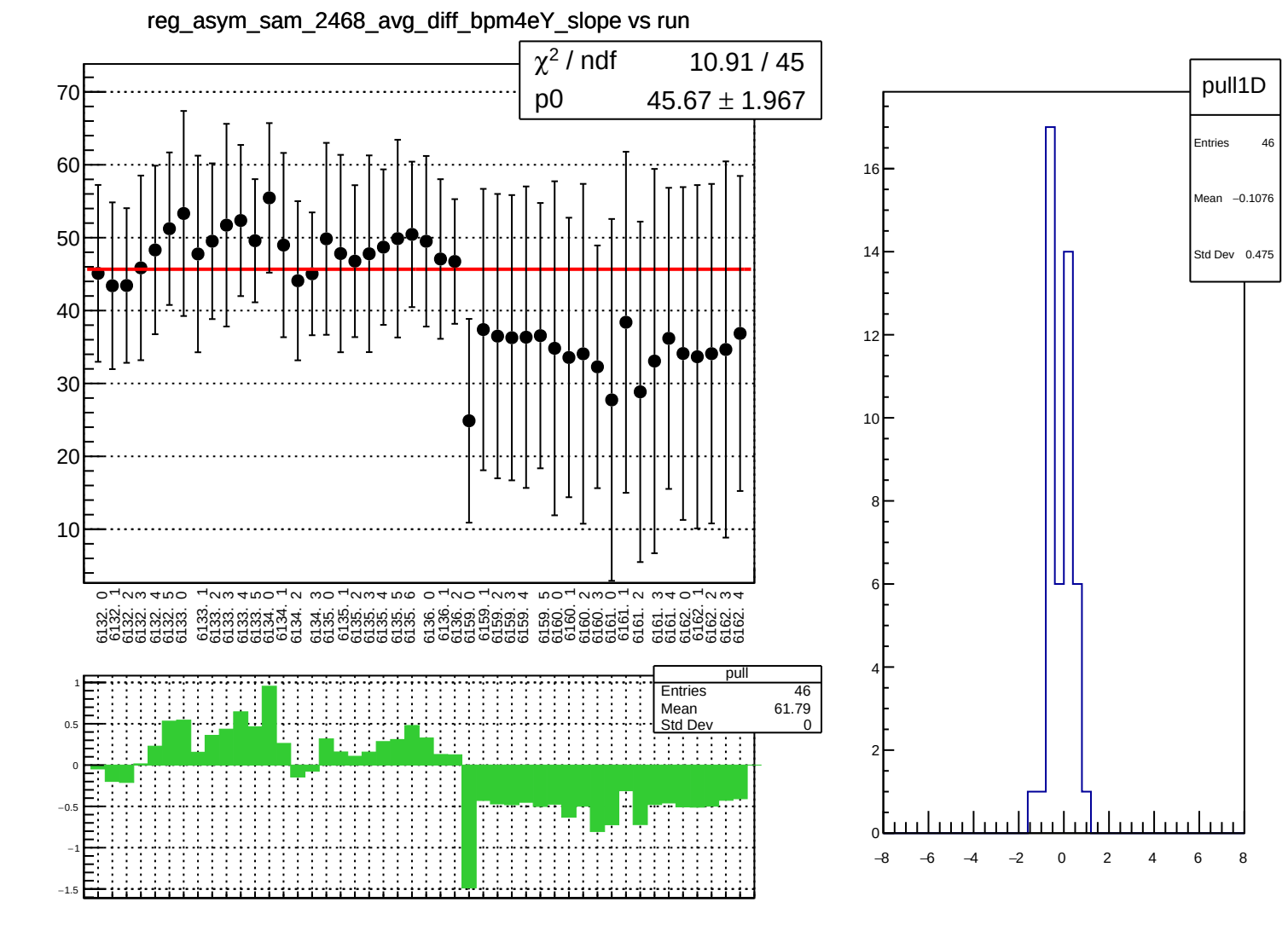

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 1.384 / 45
p0 −0.2942 ± 0.07356
pull
Entries 46
Mean 44.11
Std Dev 0
pull1D
Entries 46
Mean 0.0157
Std Dev 0.1728

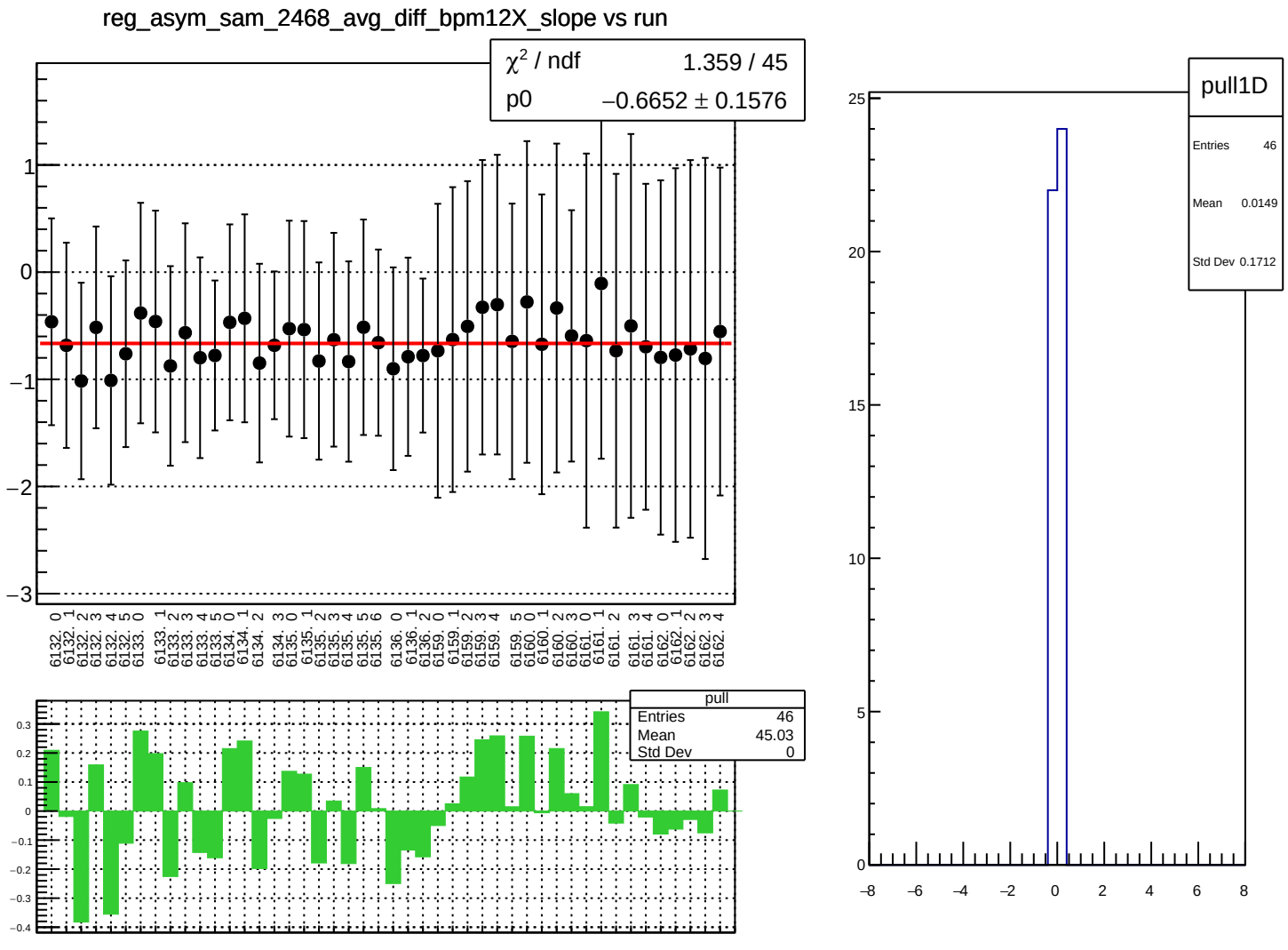

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 2.443 / 45
p0 −3.981 ± 1.594
pull
Entries 46
Mean 62.35
Std Dev 0
pull1D
Entries 46
Mean 0.03582
Std Dev 0.2276

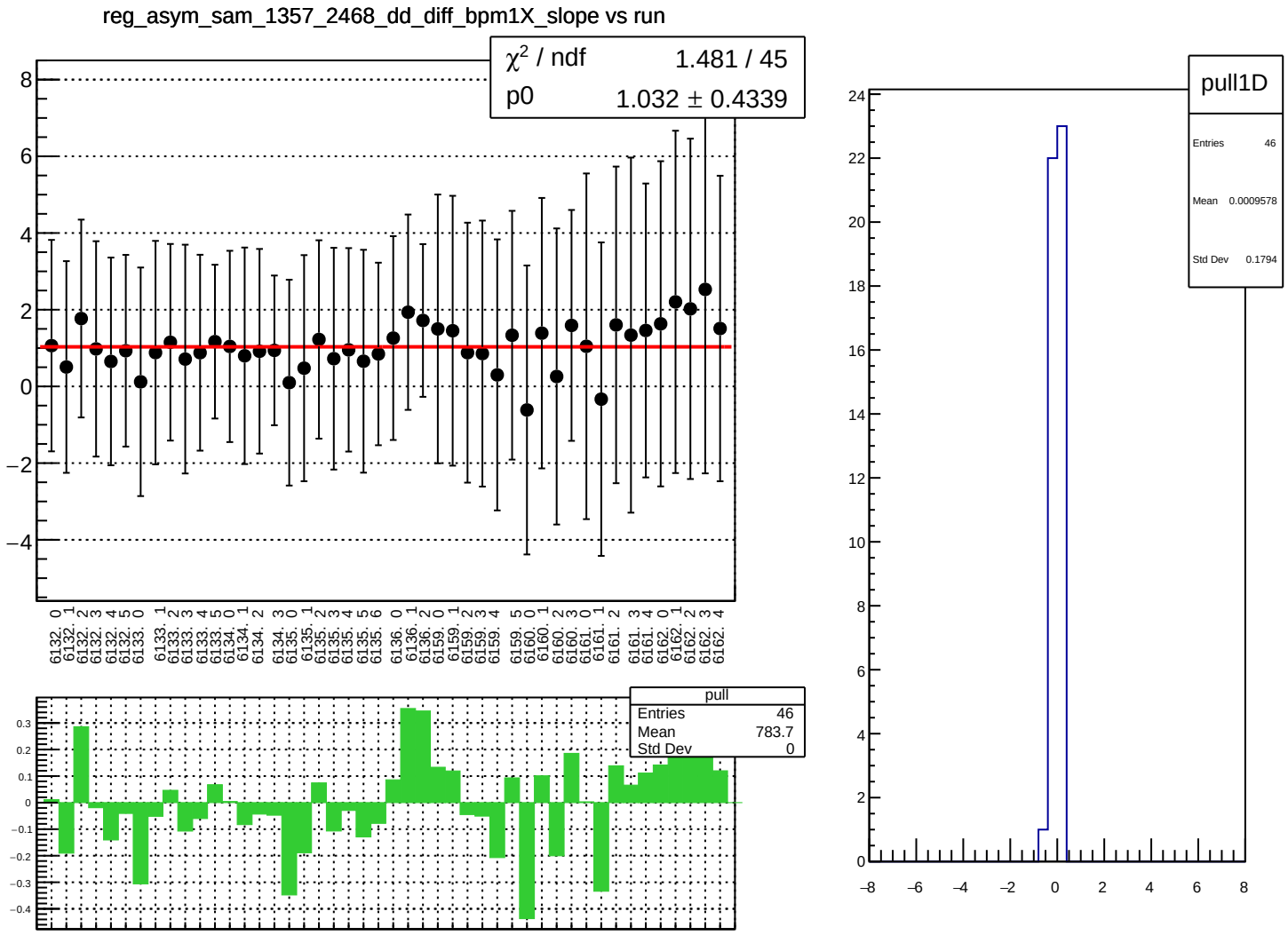

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.472 / 45
p0 −0.8109 ± 1.842
pull
Entries 46
Mean 63.36
Std Dev 0
pull1D
Entries 46
Mean 0.07078
Std Dev 0.3376

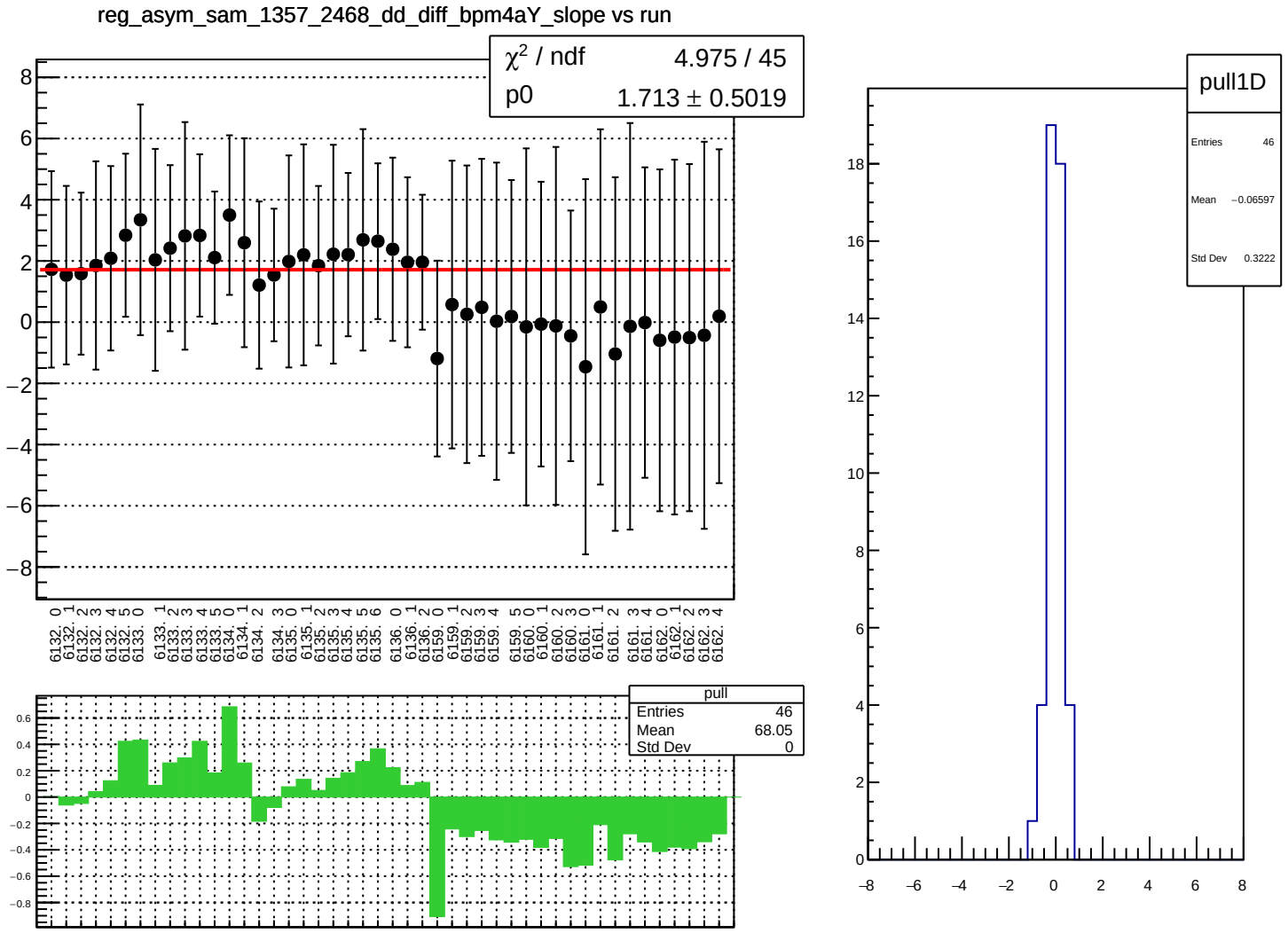

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.296 / 45
p0 −93.29 ± 1.95
−70
−80
−90
−100
−110
−120
−130
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 59.55
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

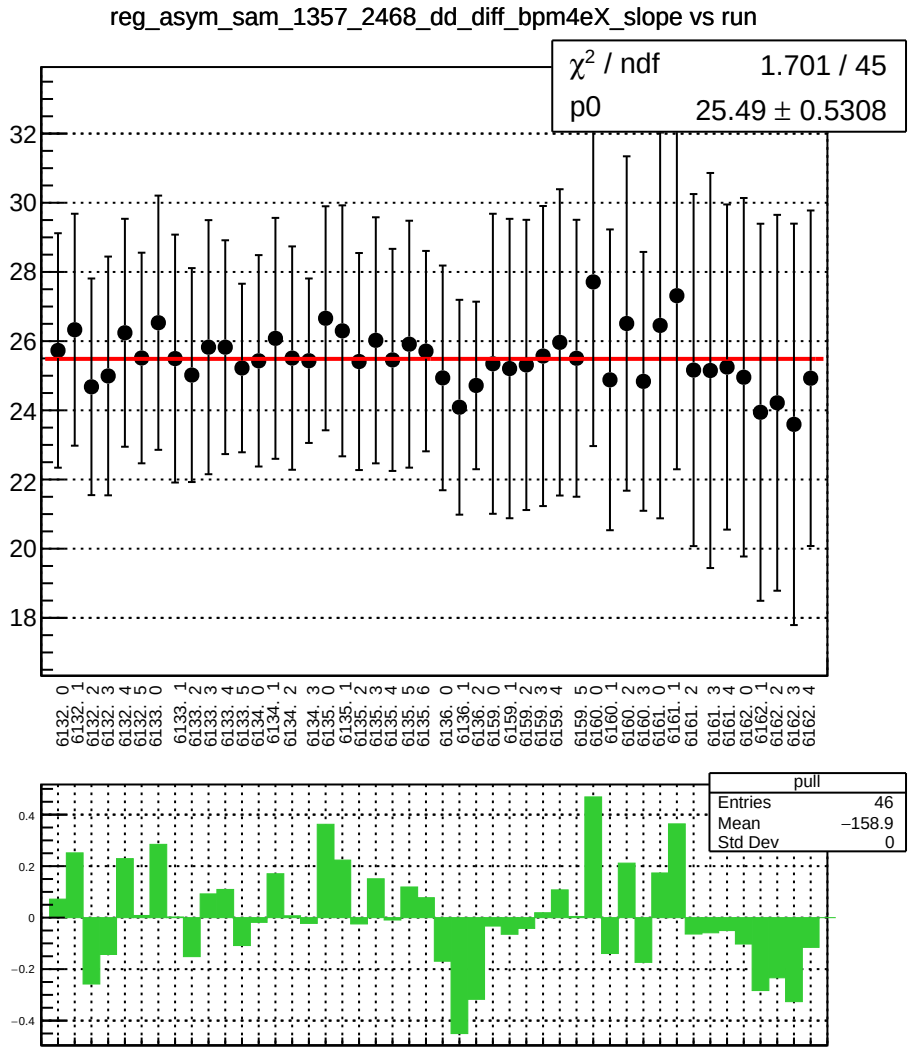

pull1D
Entries 46
Mean −0.04389
Std Dev 0.2641
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

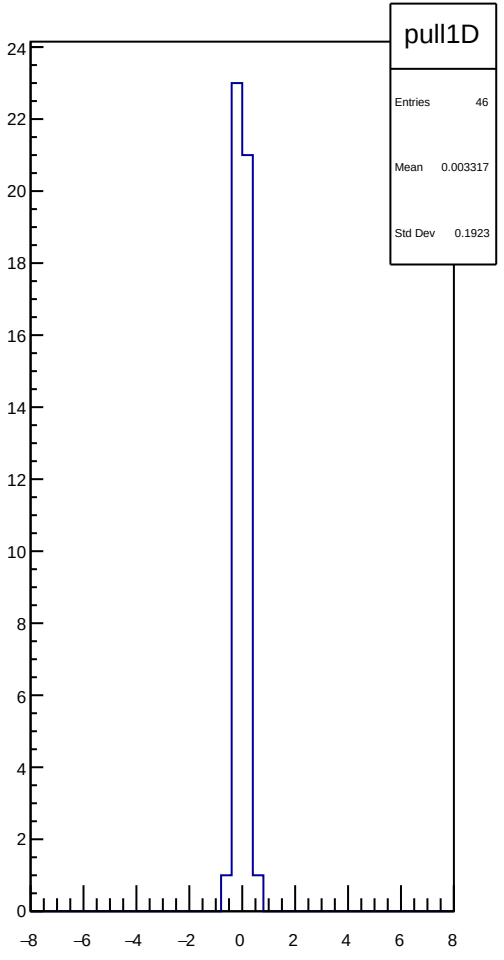

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.91 / 45
p0 45.67 ± 1.967
pull
Entries 46
Mean 61.79
Std Dev 0
pull1D
Entries 46
Mean −0.1076
Std Dev 0.475

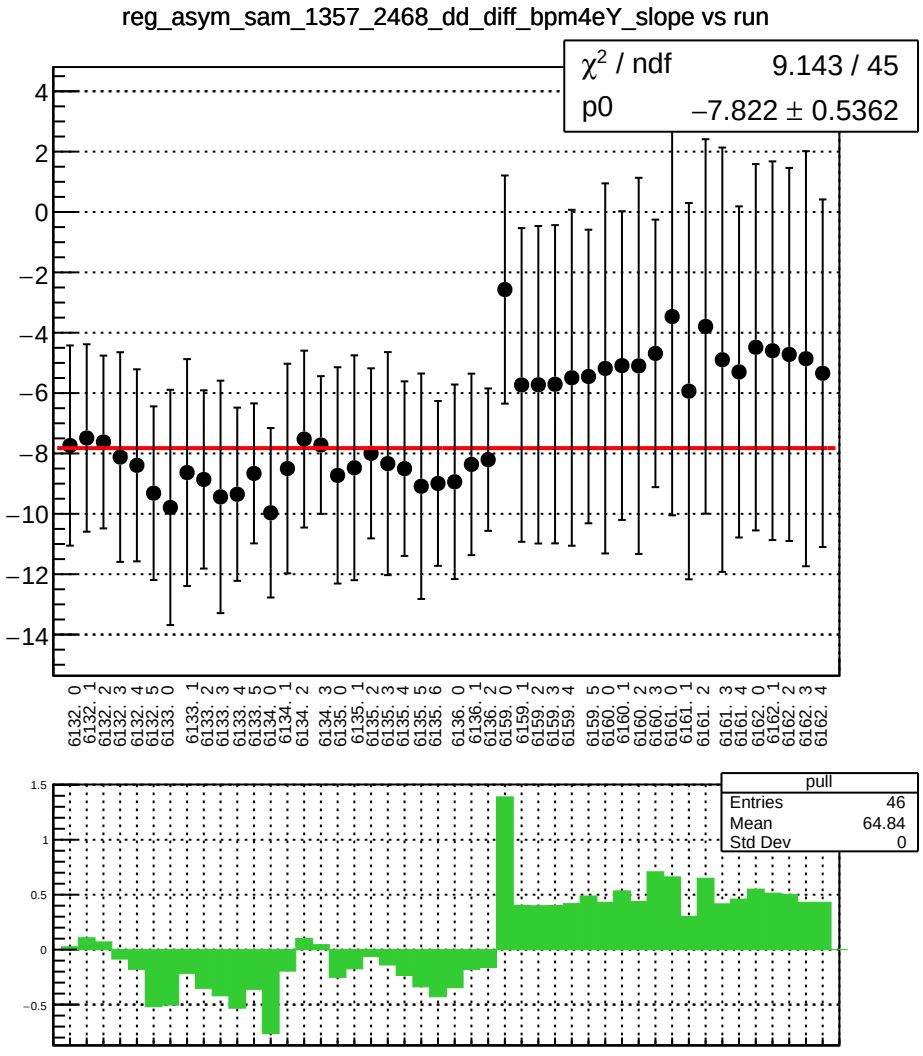

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 1.359 / 45
p0 −0.6652 ± 0.1576
pull
Entries 46
Mean 45.03
Std Dev 0
pull1D
Entries 46
Mean 0.0149
Std Dev 0.1712

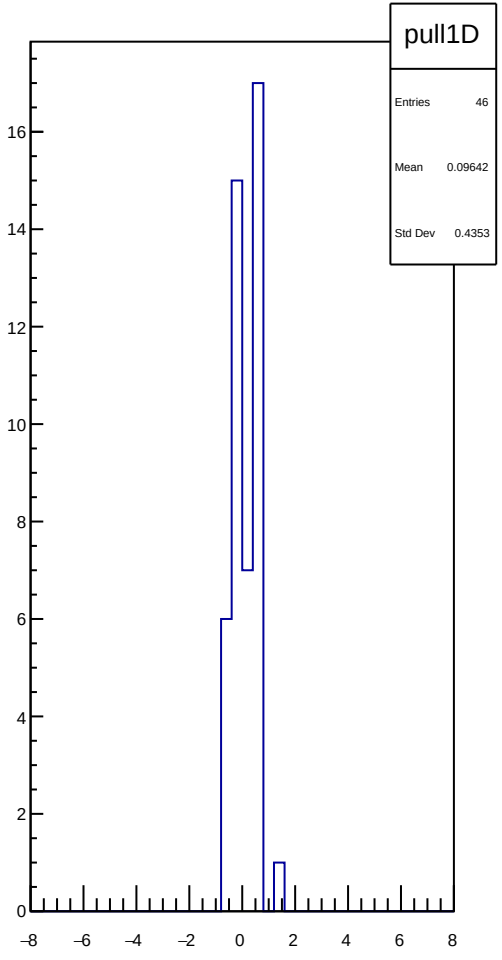

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 1.481 / 45
p0 1.032 ± 0.4339
pull
Entries 46
Mean 783.7
Std Dev 0
pull1D
Entries 46
Mean 0.0009578
Std Dev 0.1794

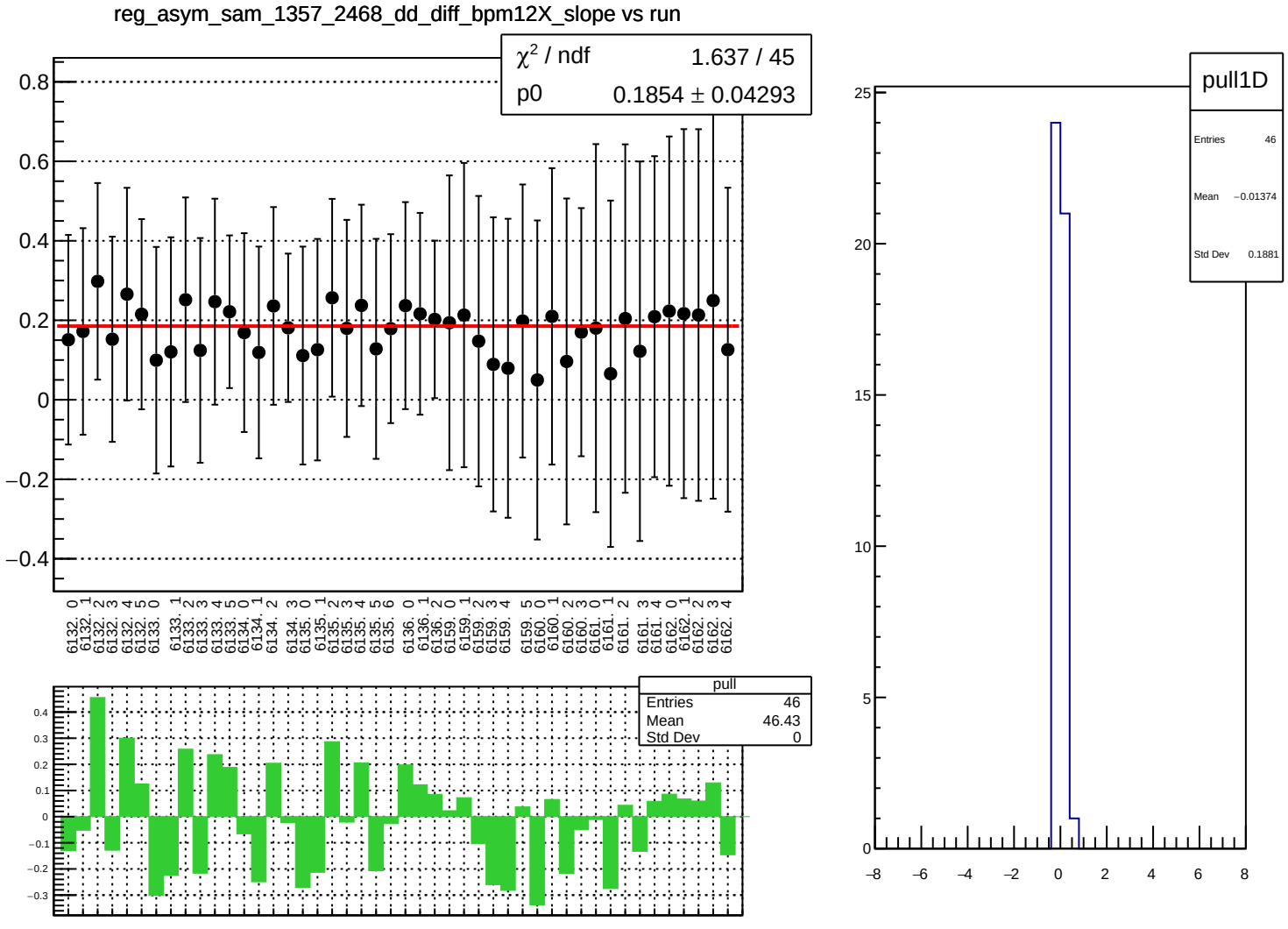

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.975 / 45
p0 1.713 ± 0.5019
pull
Entries 46
Mean 68.05
Std Dev 0
pull1D
Entries 46
Mean −0.06597
Std Dev 0.3222

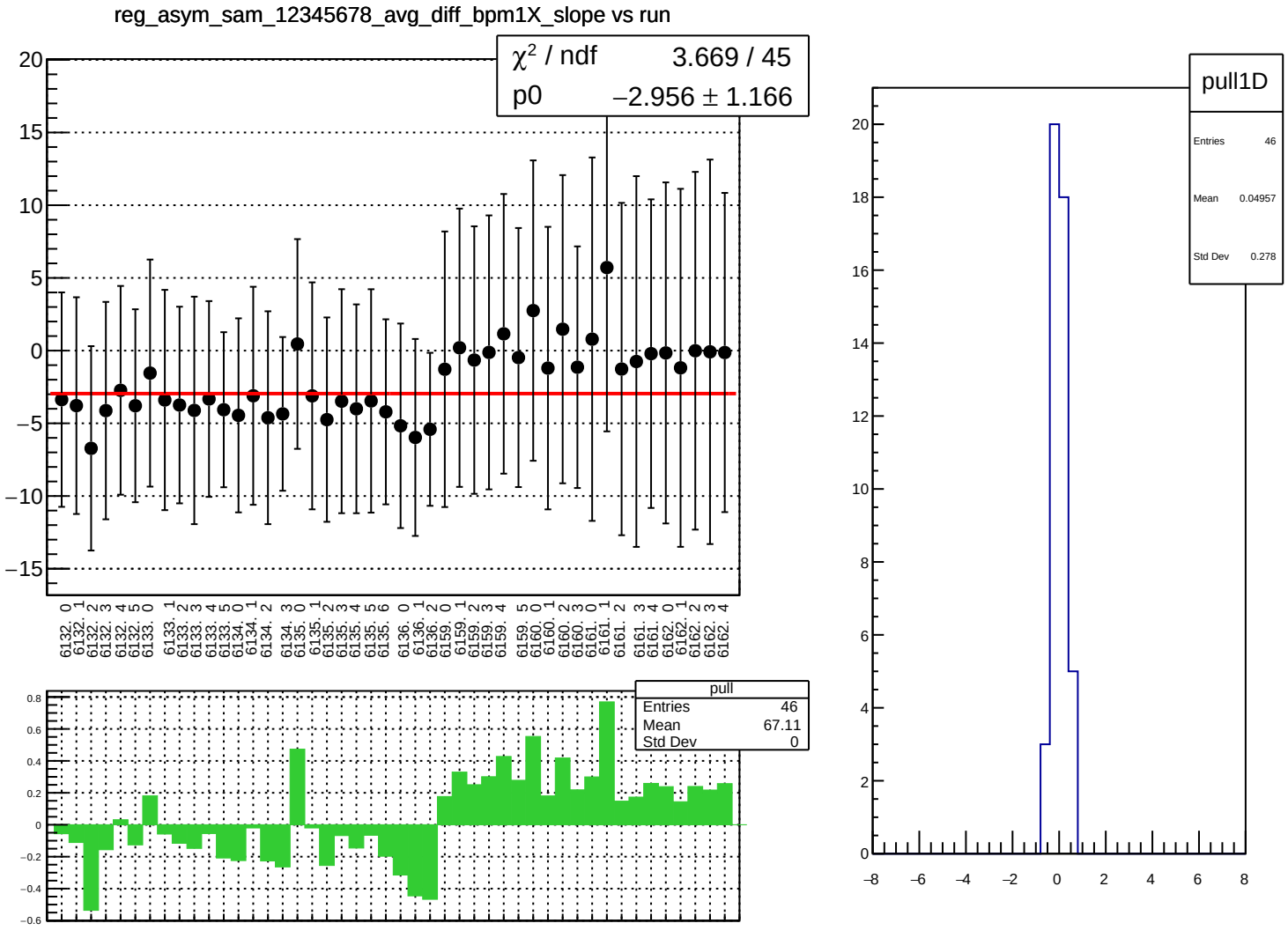

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.701 / 45
p0 25.49 ± 0.5308
pull
Entries 46
Mean −158.9
Std Dev 0

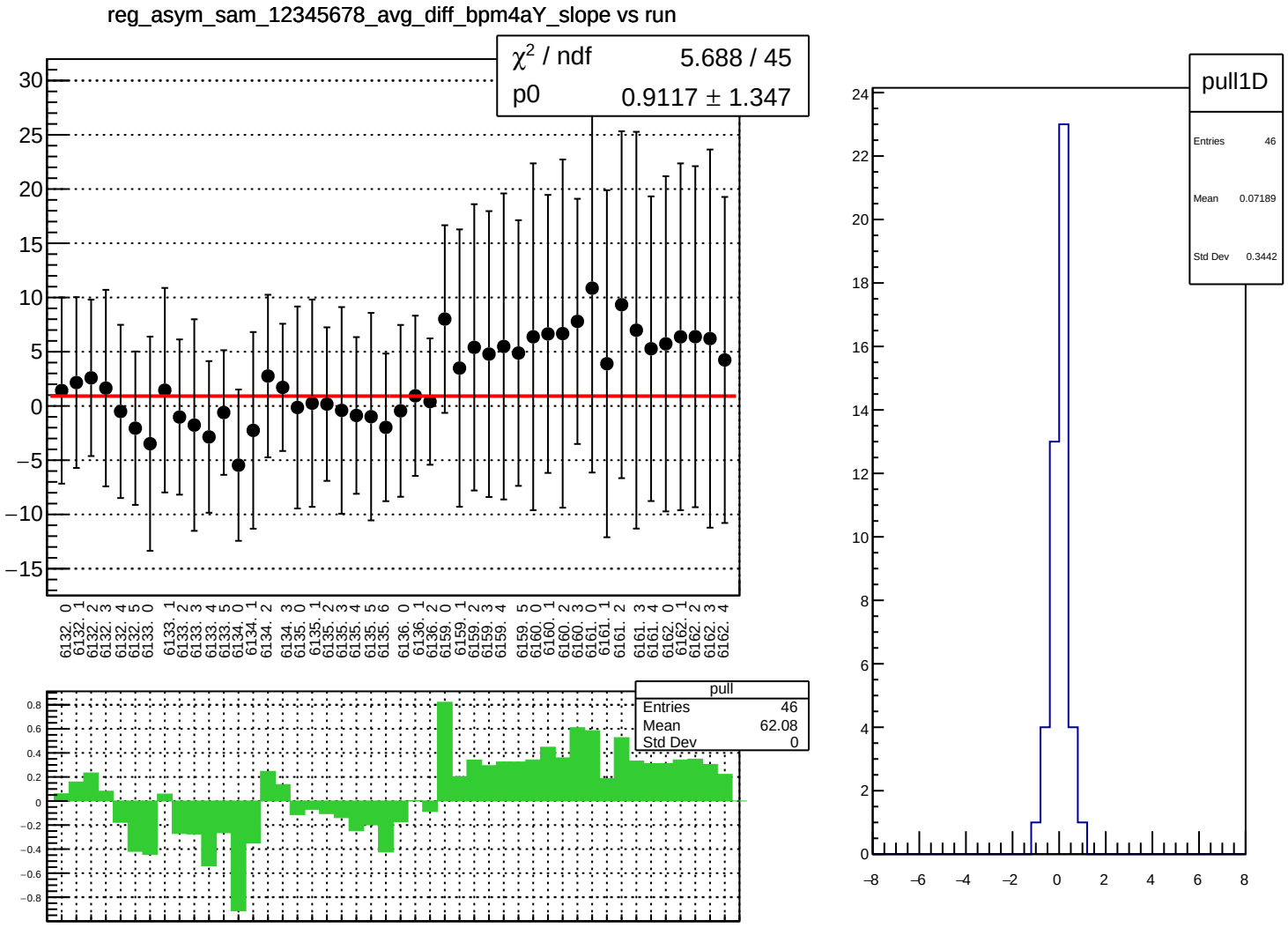

pull1D
Entries 46
Mean 0.003317
Std Dev 0.1923

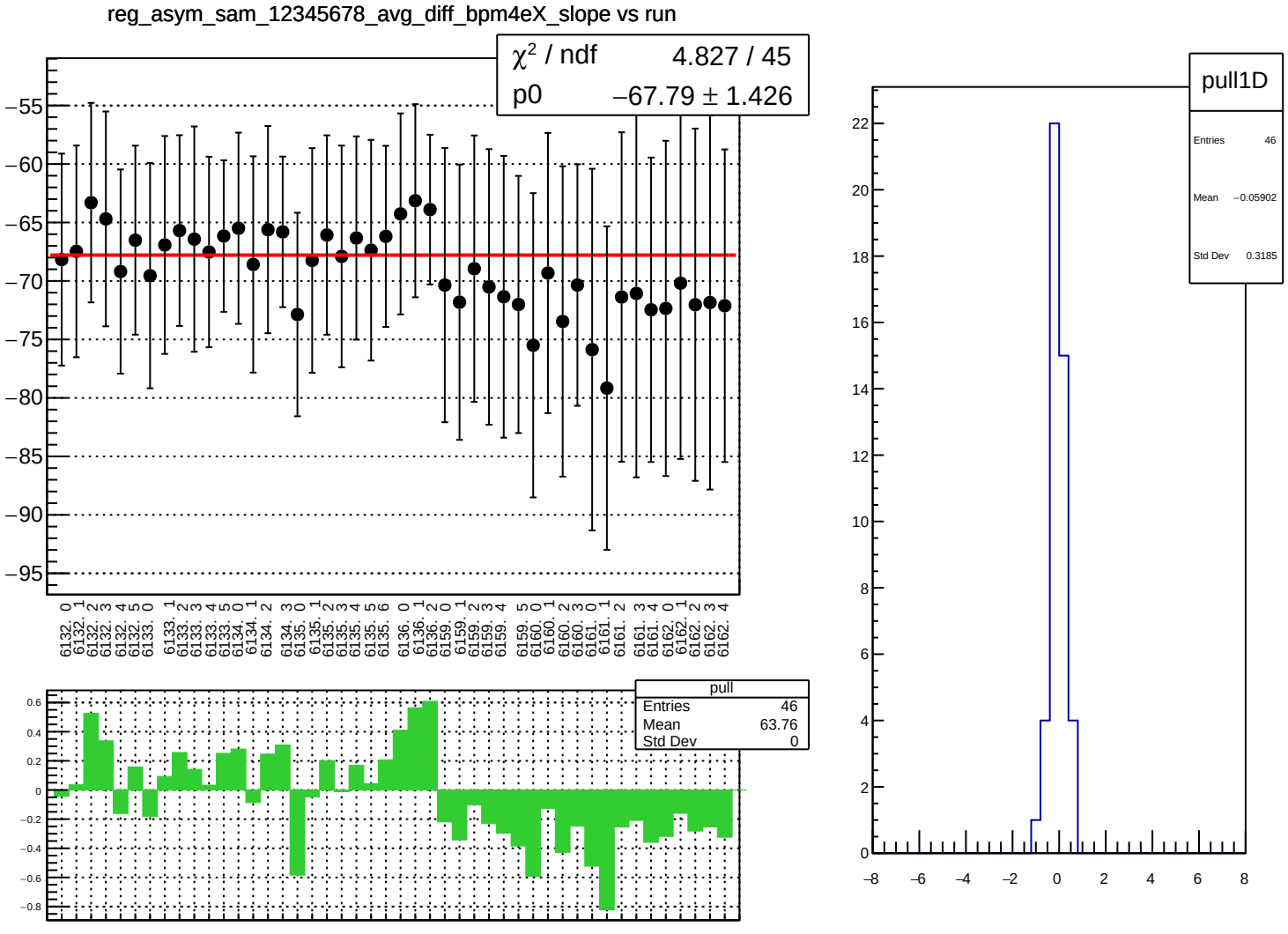

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.143 / 45
p0 −7.822 ± 0.5362
pull
Entries 46
Mean 64.84
Std Dev 0

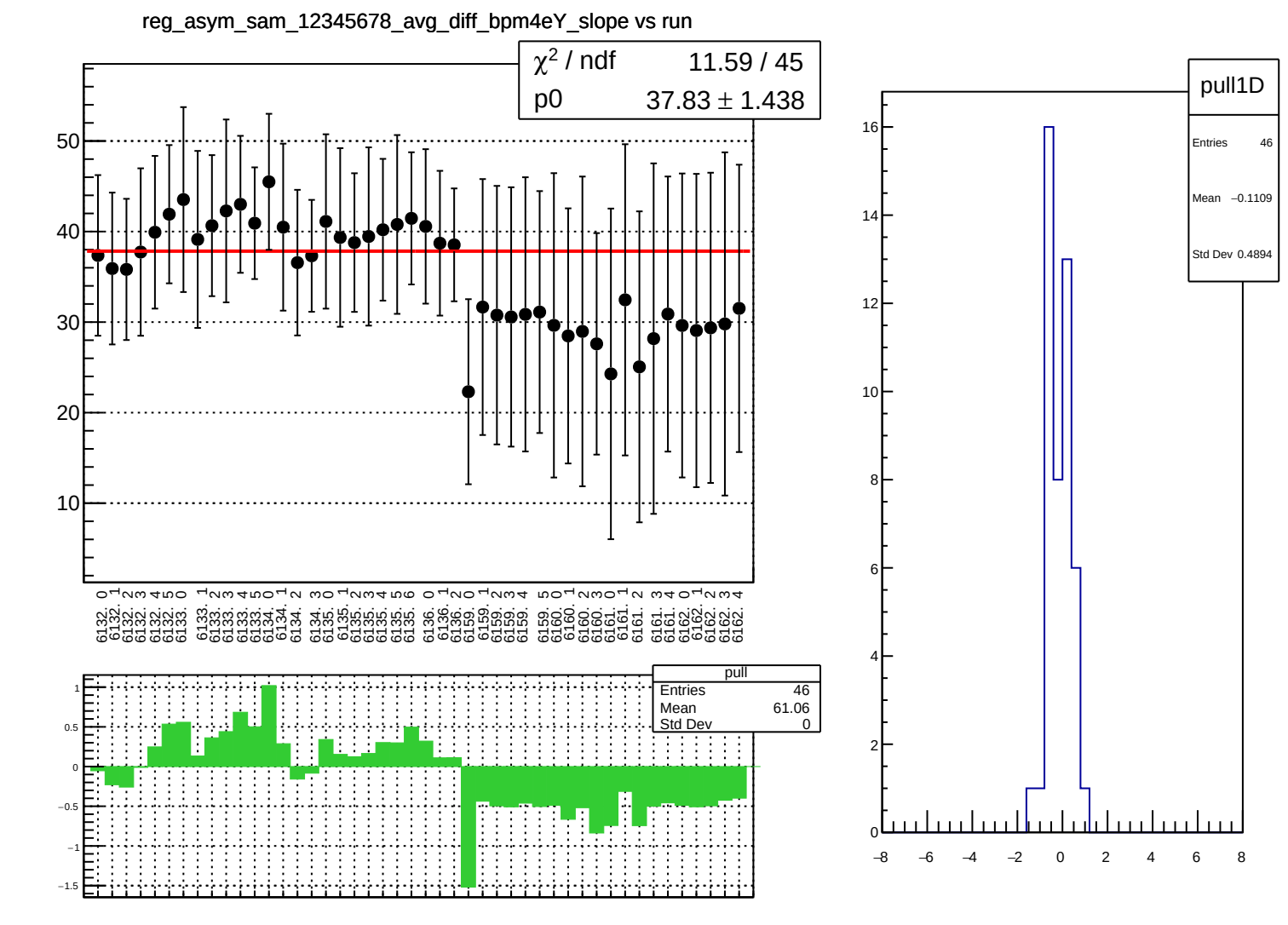

pull1D
Entries 46
Mean 0.09642
Std Dev 0.4353

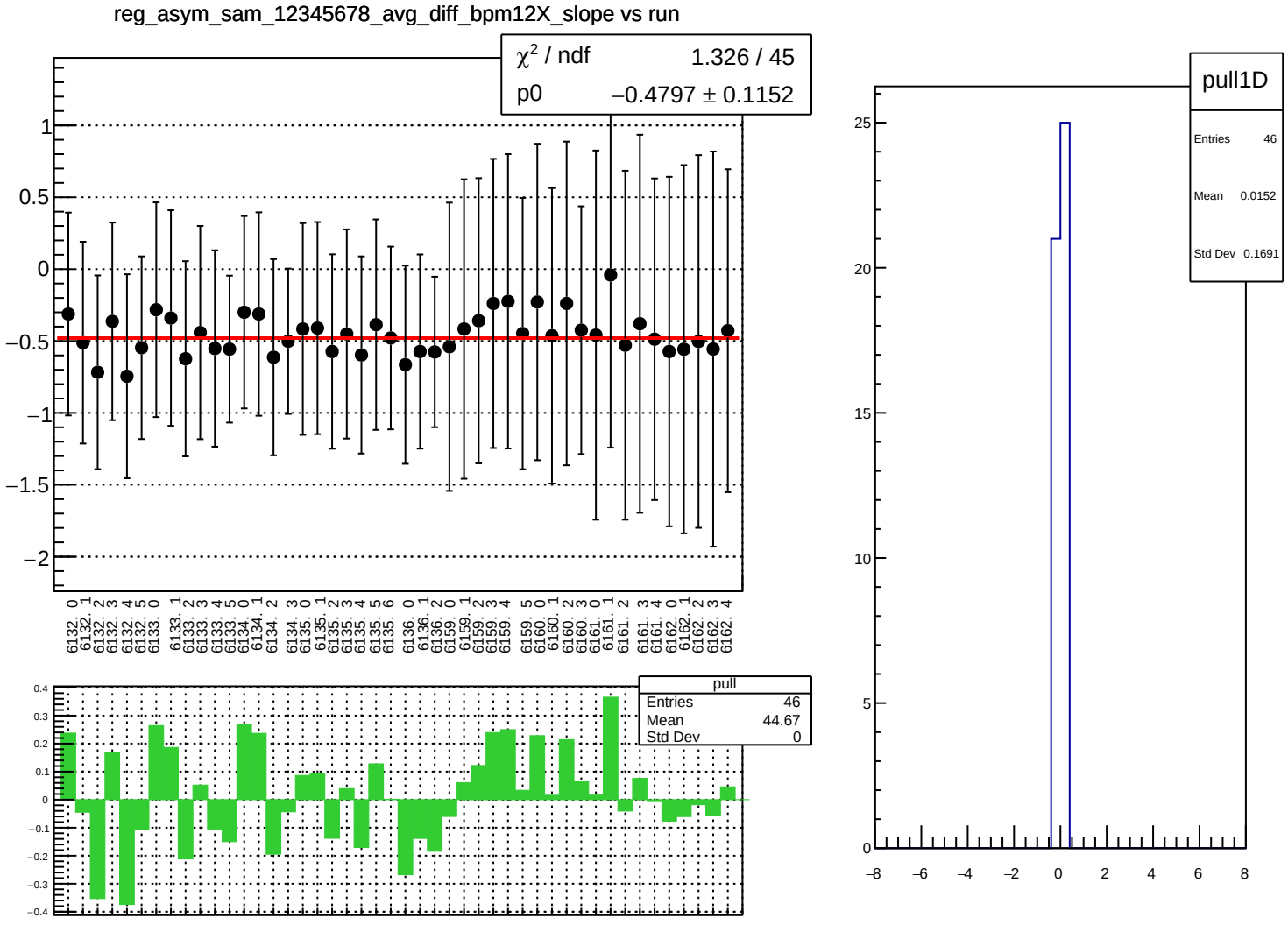

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 1.637 / 45
p0 0.1854 ± 0.04293
pull
Entries 46
Mean 46.43
Std Dev 0
pull1D
Entries 46
Mean −0.01374
Std Dev 0.1881

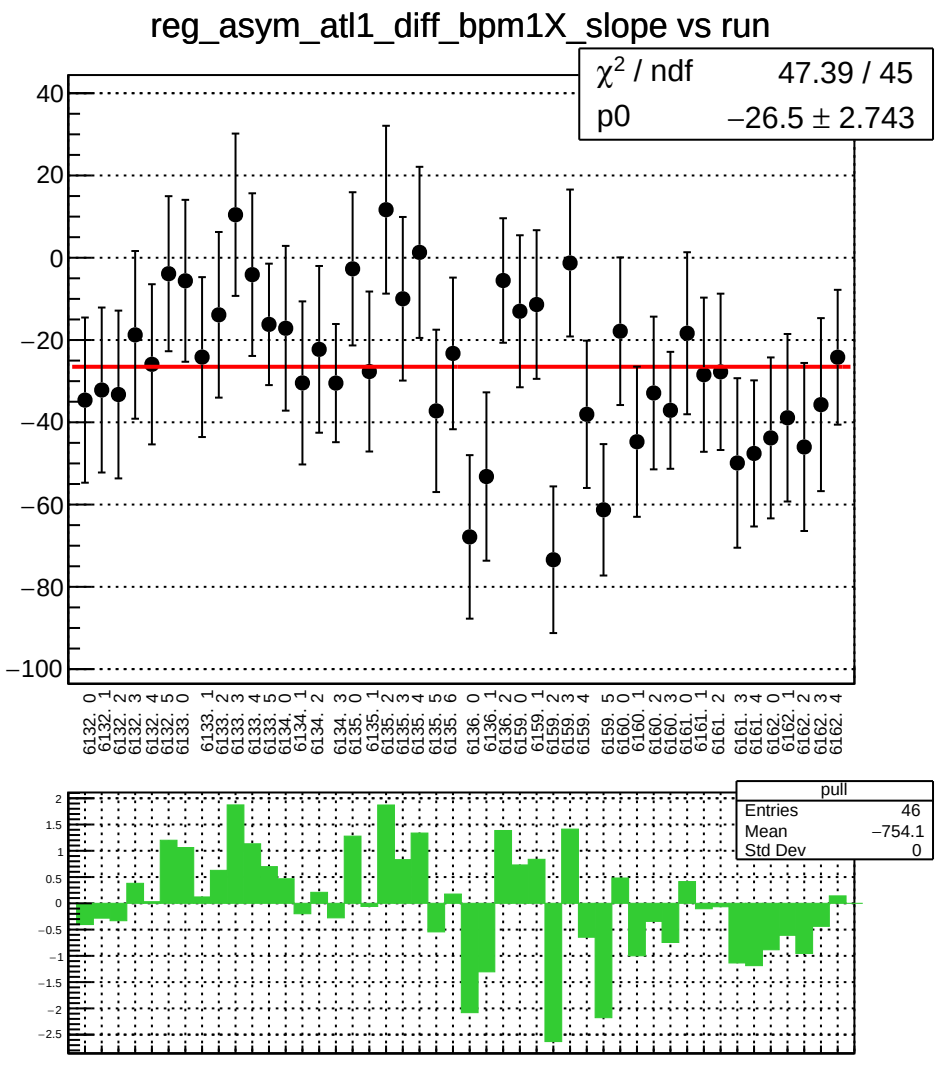

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 3.669 / 45
p0 −2.956 ± 1.166
pull
Entries 46
Mean 67.11
Std Dev 0
pull1D
Entries 46
Mean 0.04957
Std Dev 0.278

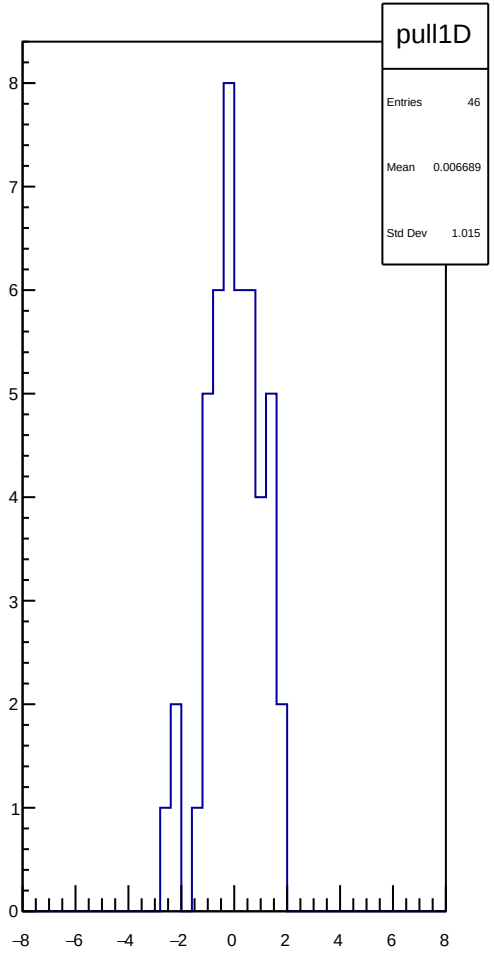

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.688 / 45
p0 0.9117 ± 1.347
pull
Entries 46
Mean 62.08
Std Dev 0
pull1D
Entries 46
Mean 0.07189
Std Dev 0.3442

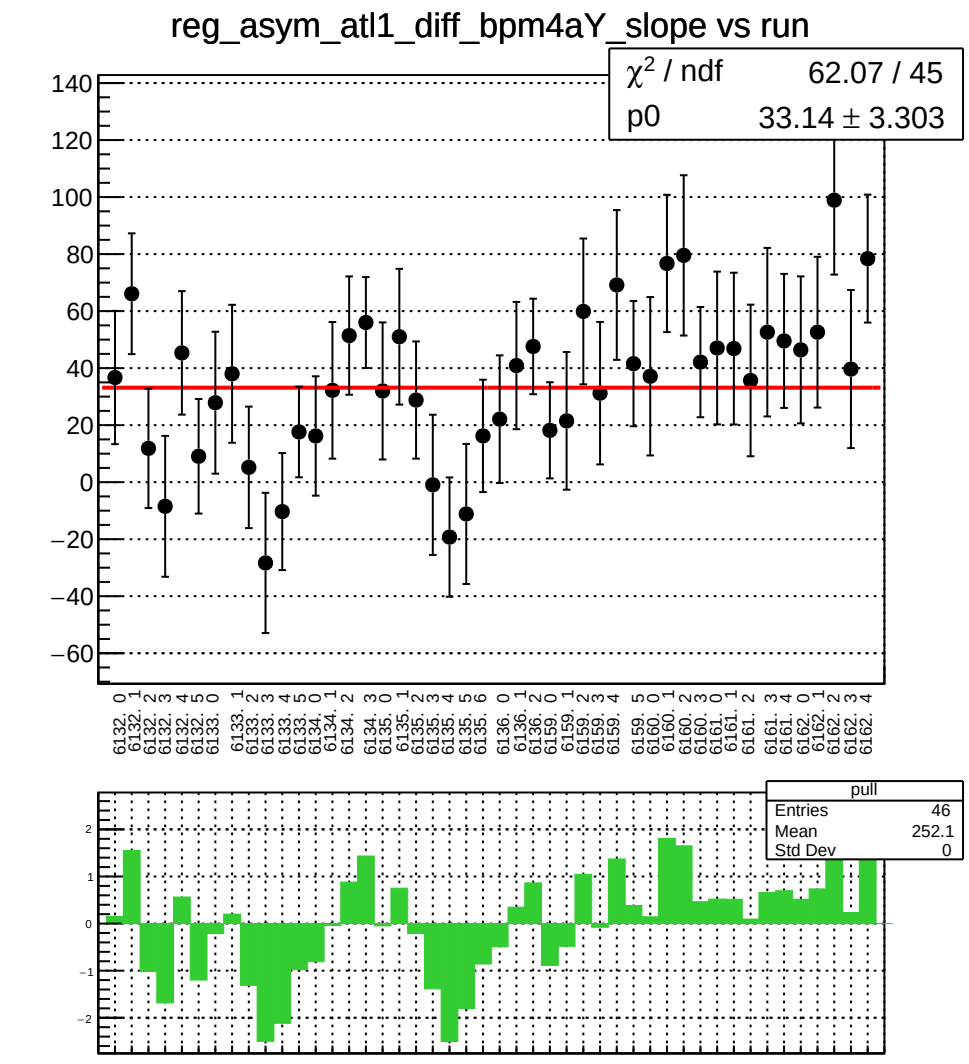

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.827 / 45
p0 −67.79 ± 1.426
pull
Entries 46
Mean 63.76
Std Dev 0
pull1D
Entries 46
Mean −0.05902
Std Dev 0.3185

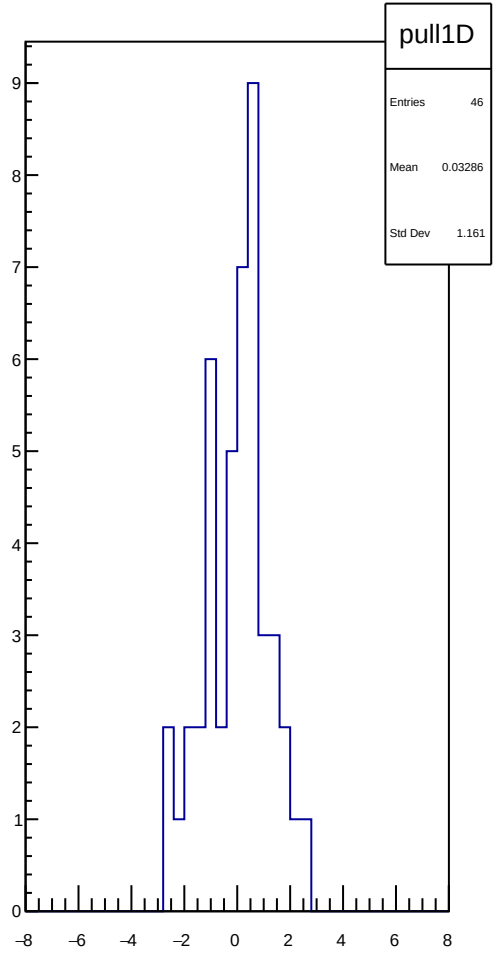

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.59 / 45
p0 37.83 ± 1.438
pull
Entries 46
Mean 61.06
Std Dev 0
pull1D
Entries 46
Mean −0.1109
Std Dev 0.4894

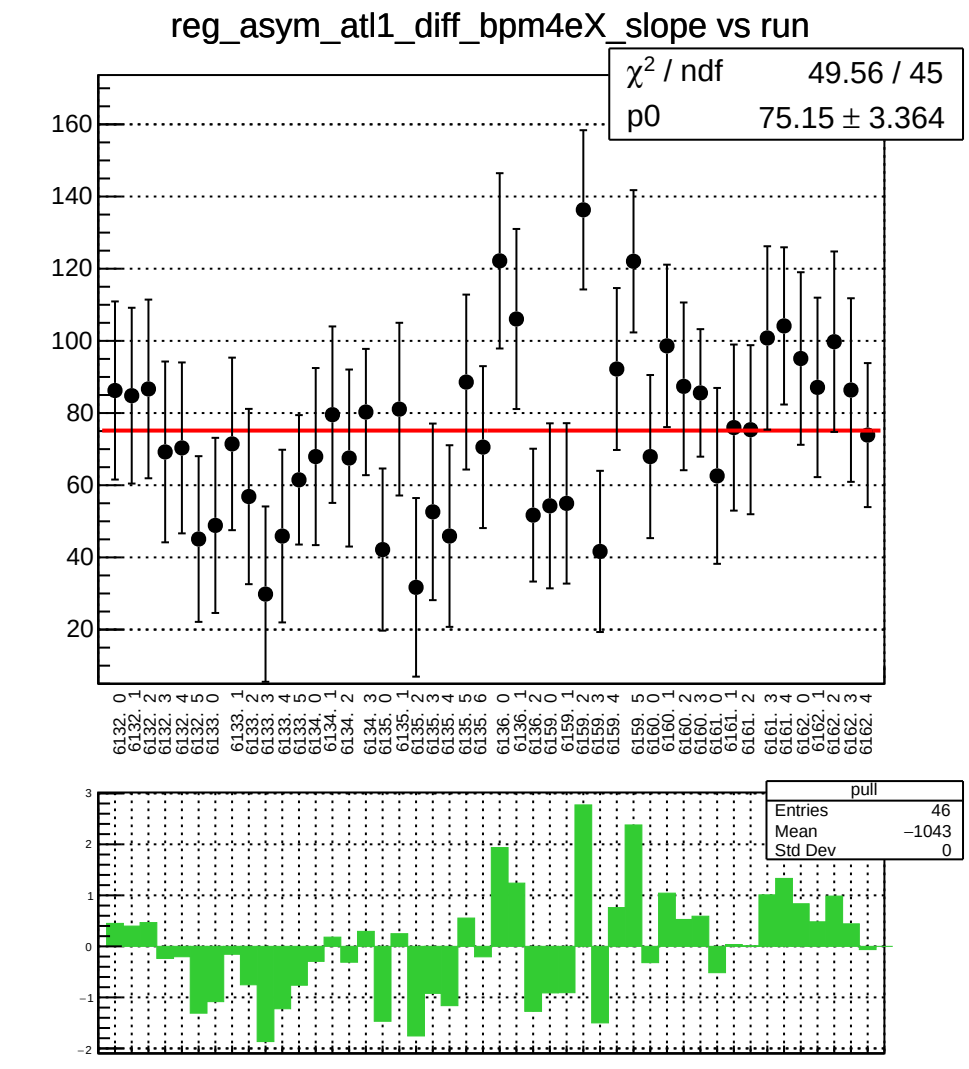

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 1.326 / 45
p0 −0.4797 ± 0.1152
pull
Entries 46
Mean 44.67
Std Dev 0
pull1D
Entries 46
Mean 0.0152
Std Dev 0.1691

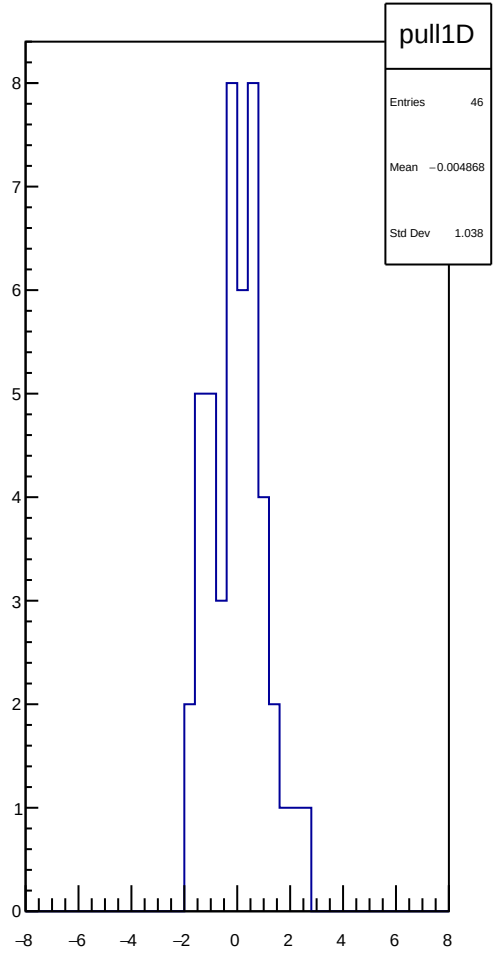

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 47.39 / 45
p0 −26.5 ± 2.743
pull
Entries 46
Mean −754.1
Std Dev 0

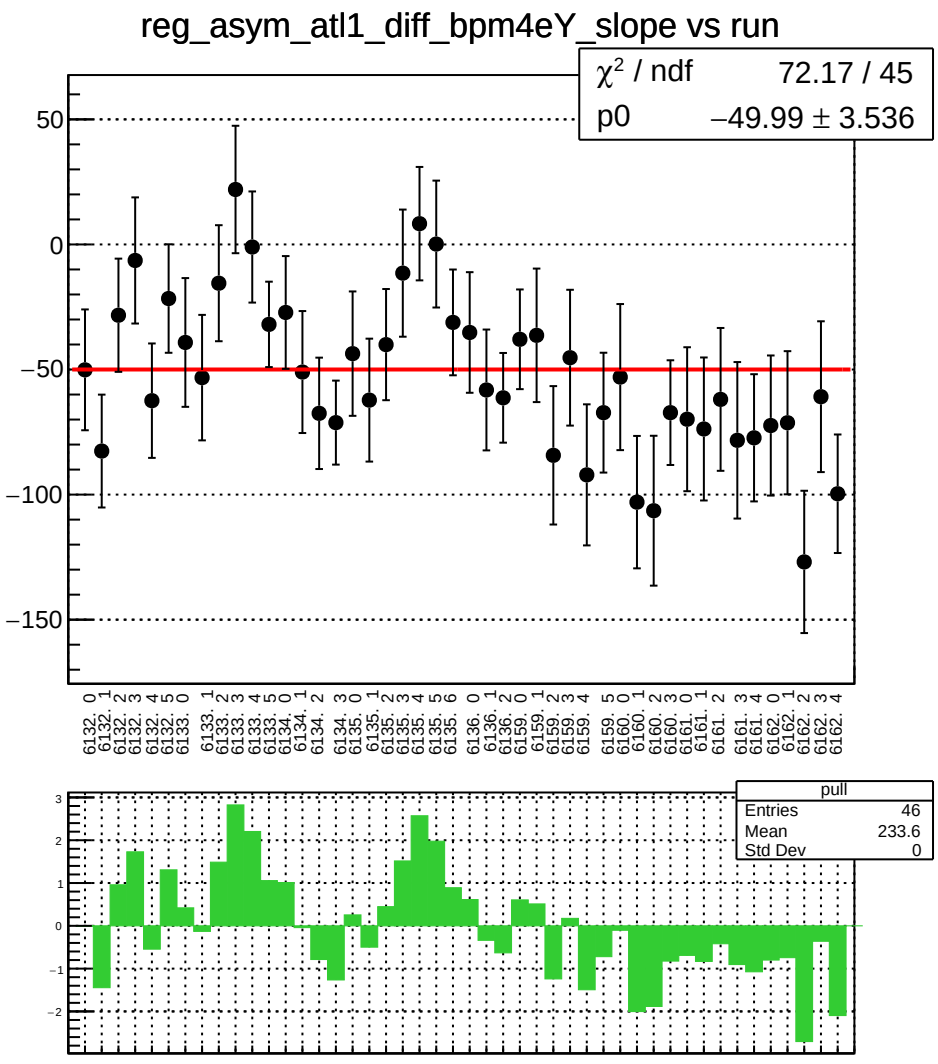

pull1D
Entries 46
Mean 0.006689
Std Dev 1.015

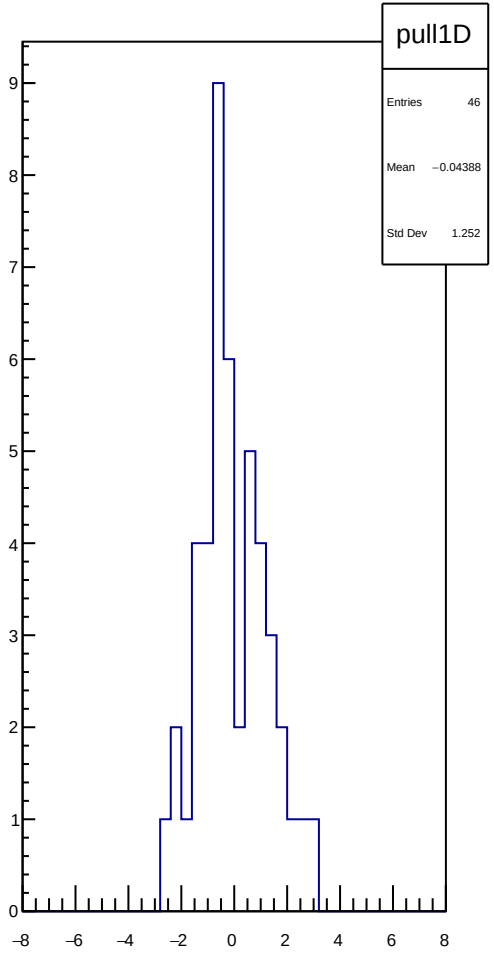

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 62.07 / 45
p0 33.14 ± 3.303
pull
Entries 46
Mean 252.1
Std Dev 0

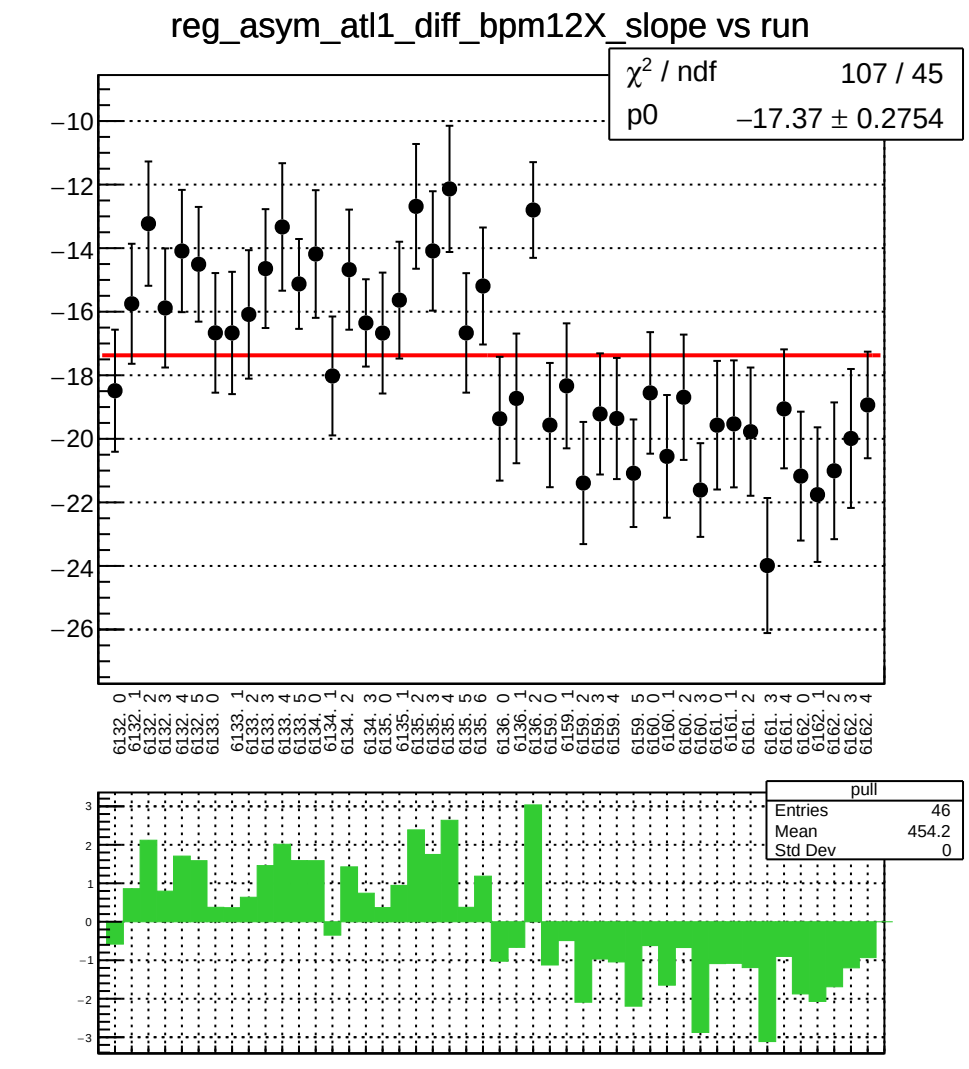

pull1D
Entries 46
Mean 0.03286
Std Dev 1.161

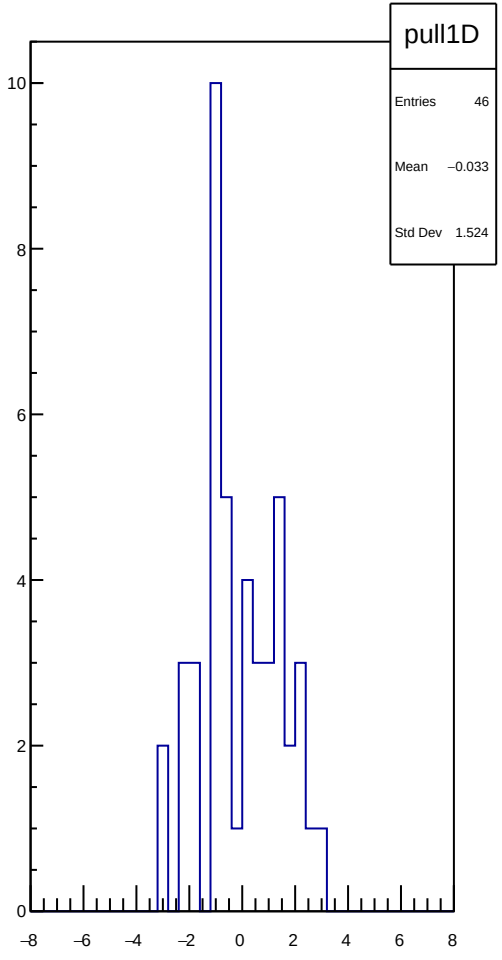

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 49.56 / 45
p0 75.15 ± 3.364
160
140
120
100
80
60
40
20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1043
Std Dev 0
3
2
1
0
−1
−2

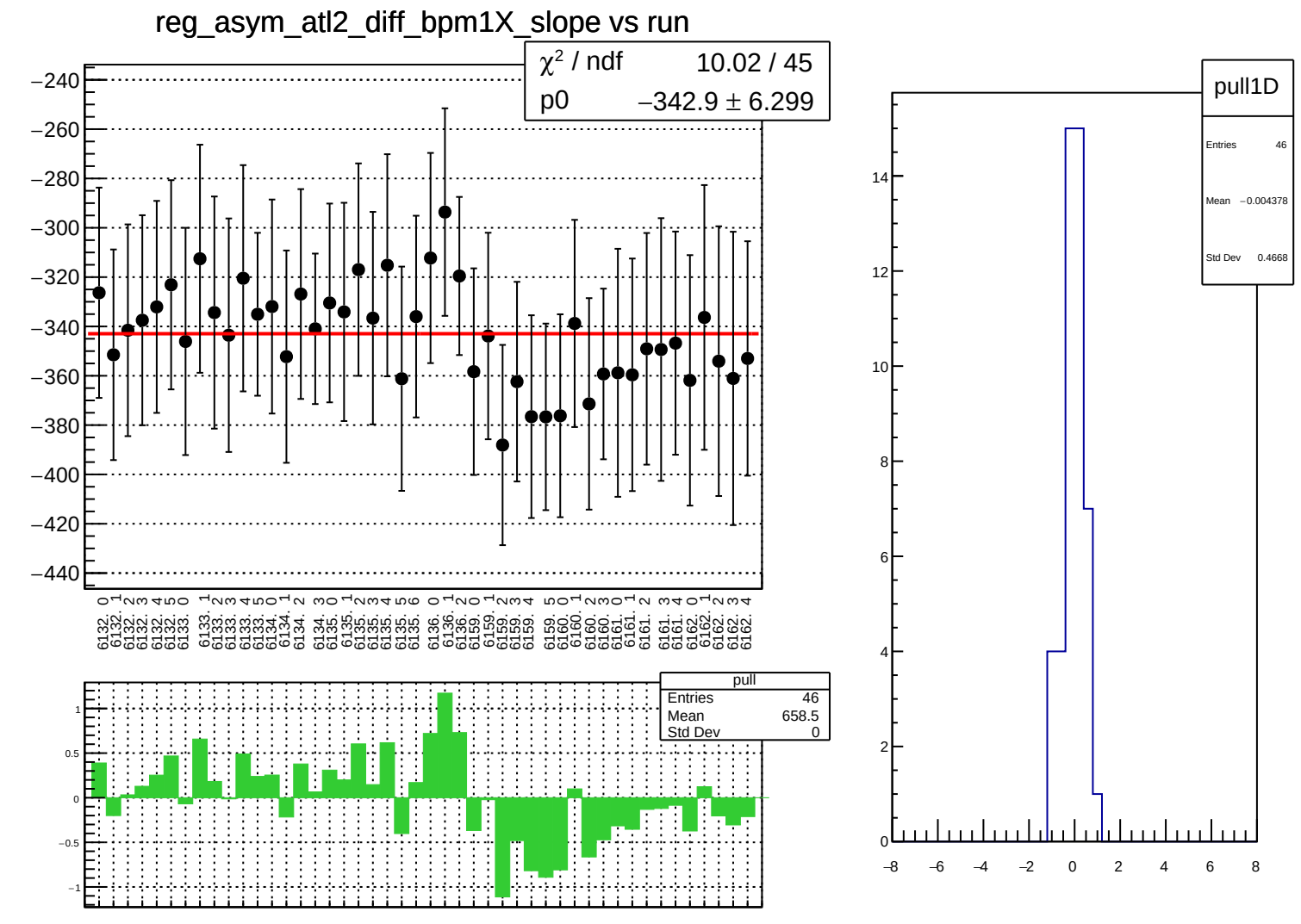

pull1D
Entries 46
Mean −0.004868
Std Dev 1.038
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

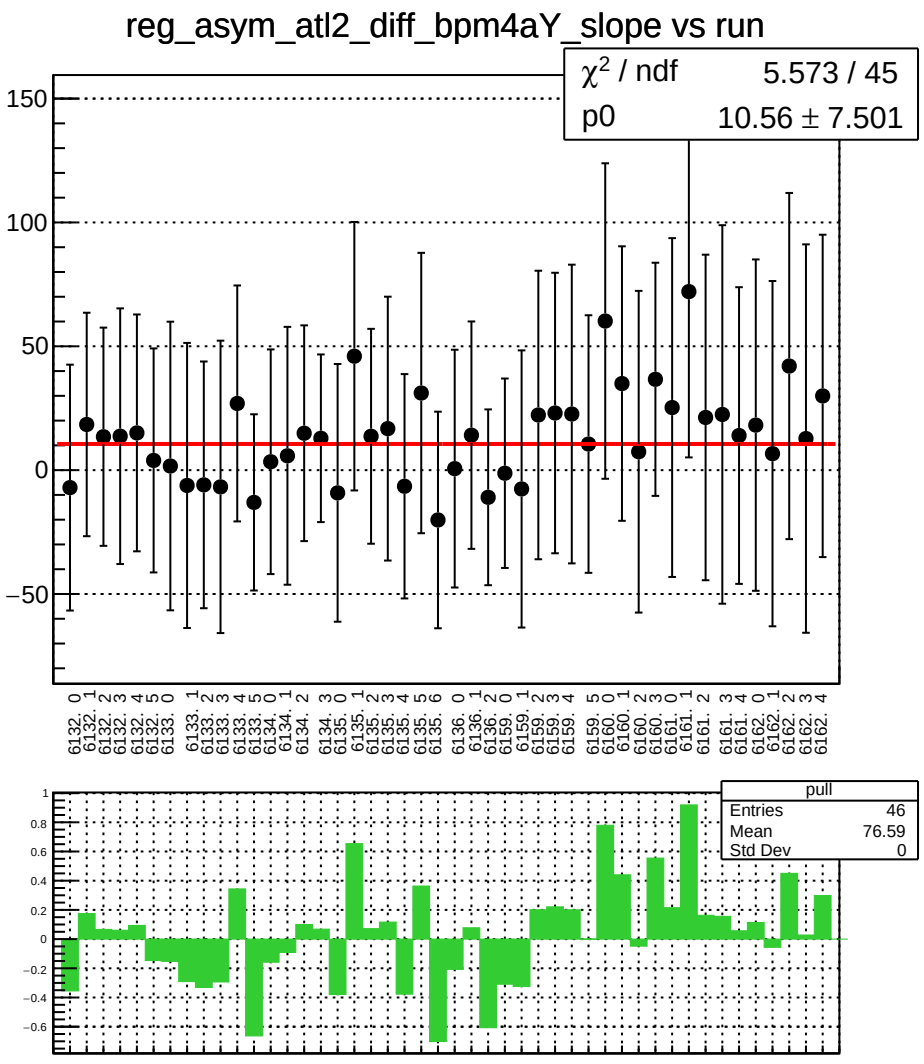

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 72.17 / 45
p0 −49.99 ± 3.536
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6136. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 233.6
Std Dev 0
3
2
1
0
−1
−2

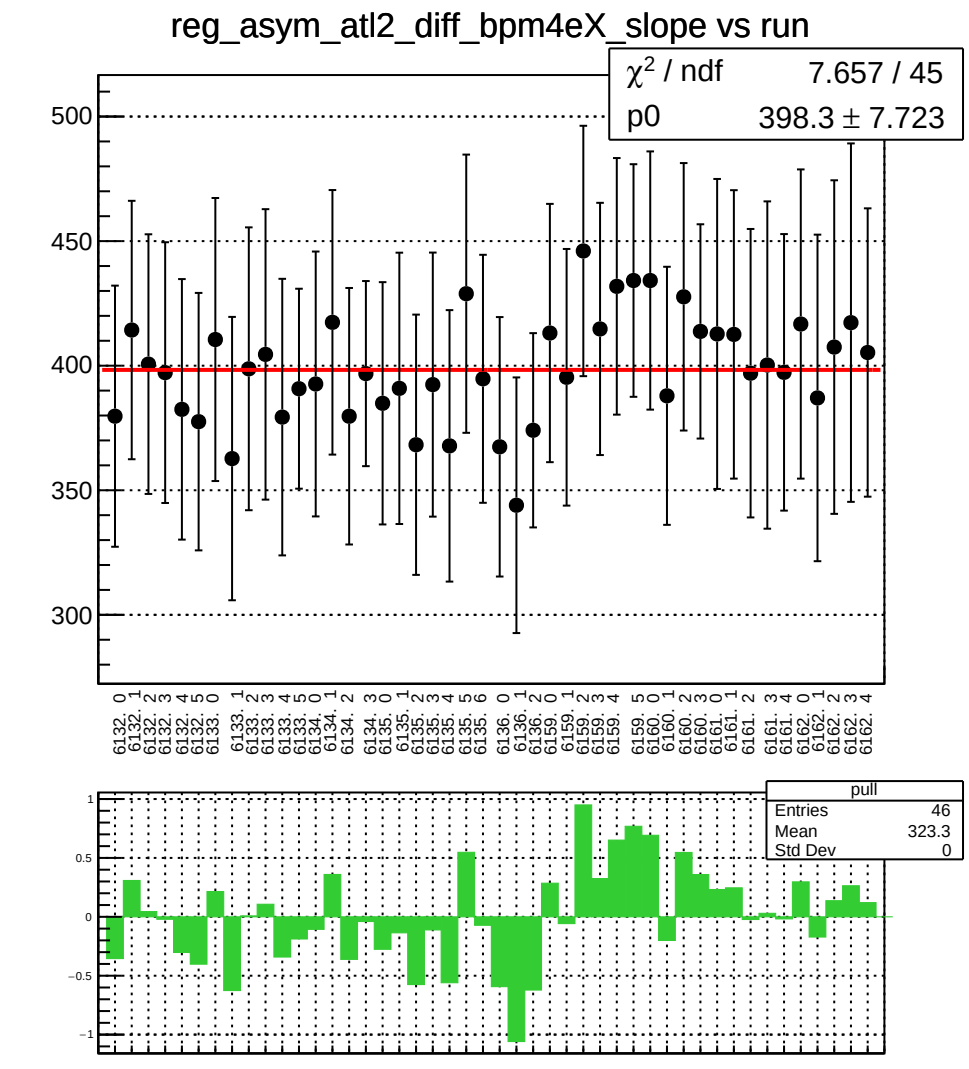

pull1D
Entries 46
Mean −0.04388
Std Dev 1.252
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

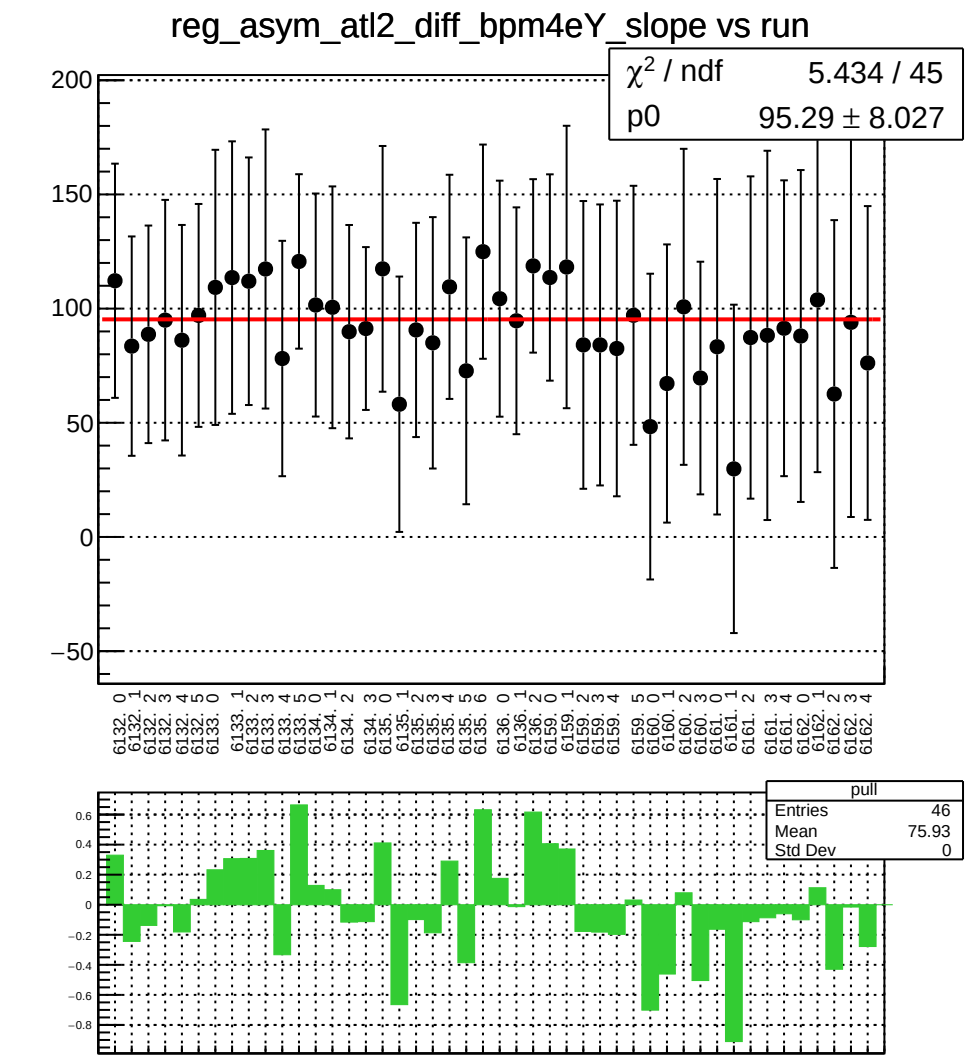

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 107 / 45
p0 −17.37 ± 0.2754
pull
Entries 46
Mean 454.2
Std Dev 0

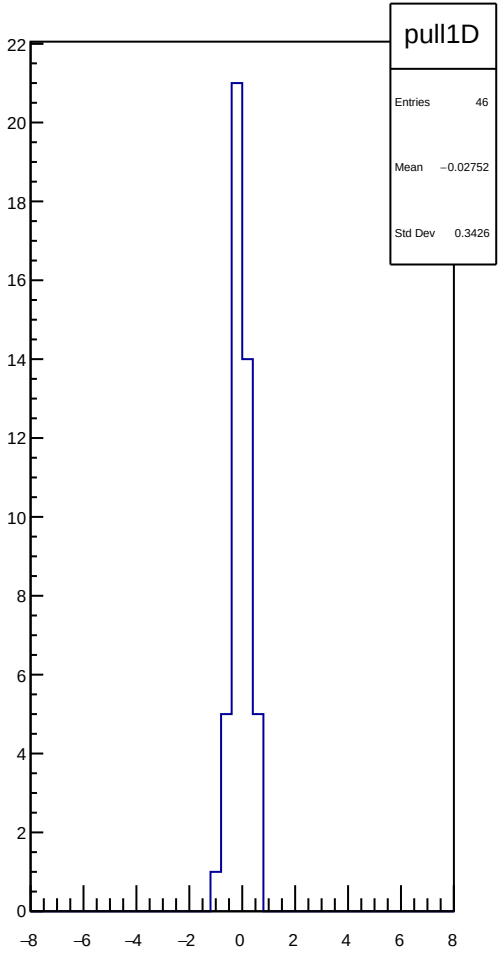

pull1D
Entries 46
Mean −0.033
Std Dev 1.524

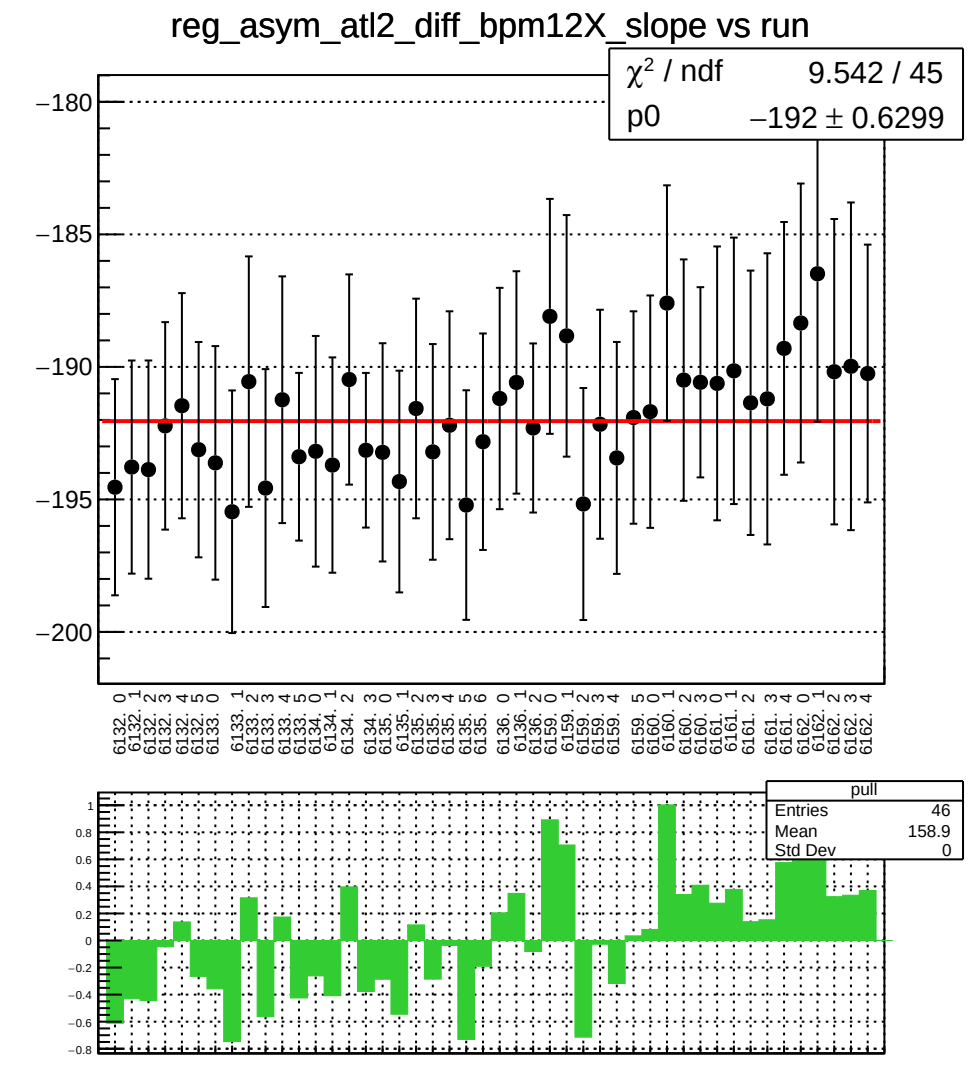

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 10.02 / 45
p0 −342.9 ± 6.299
pull
Entries 46
Mean 658.5
Std Dev 0
pull1D
Entries 46
Mean −0.004378
Std Dev 0.4668

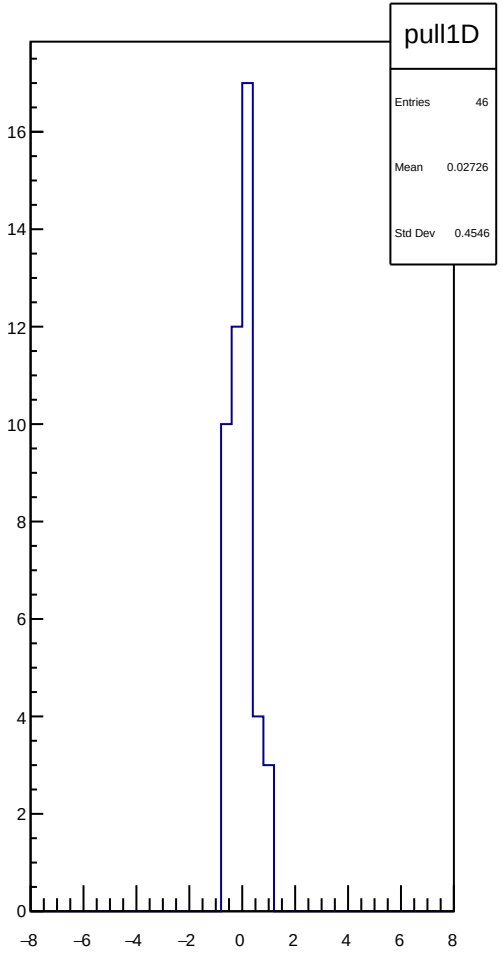

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 5.573 / 45
p0 10.56 ± 7.501
150
100
50
0
−50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 76.59
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 46
Mean 0.03244
Std Dev 0.3466
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

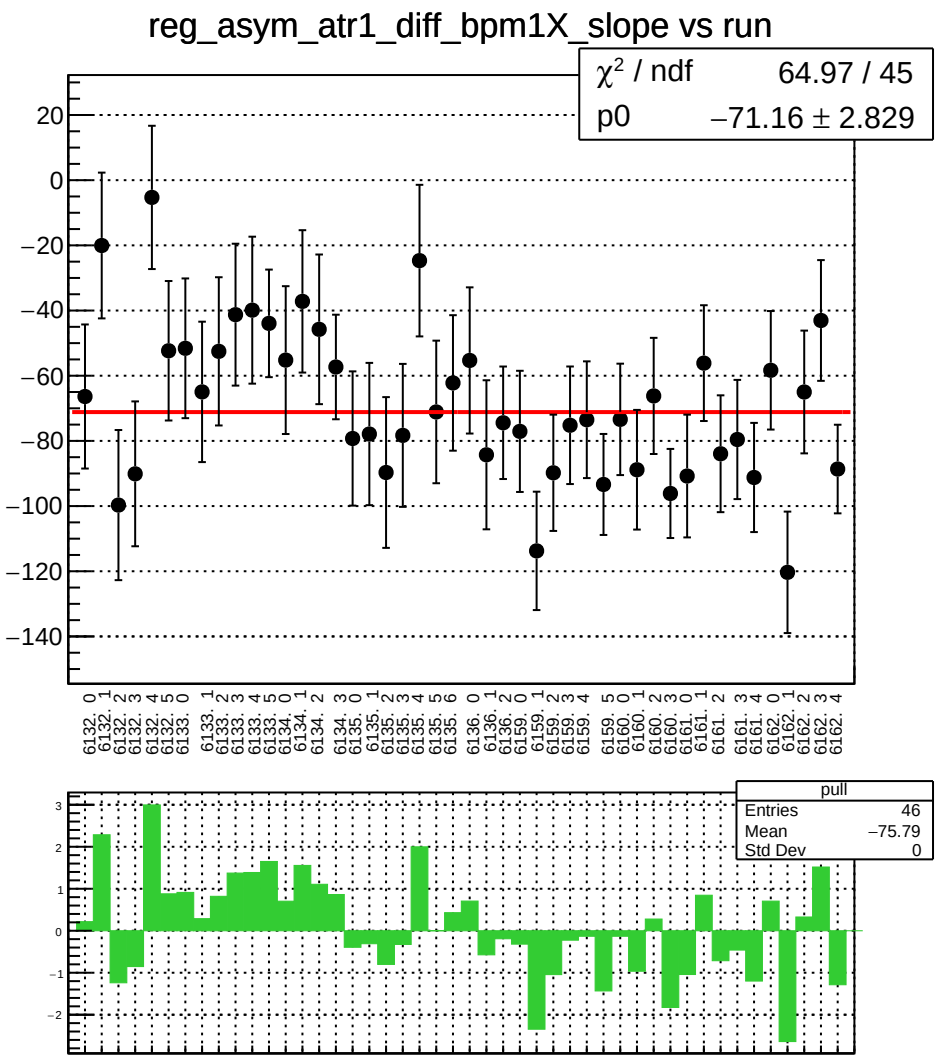

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 7.657 / 45
p0 398.3 ± 7.723
500
450
400
350
300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 323.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean 0.006
Std Dev 0.4079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

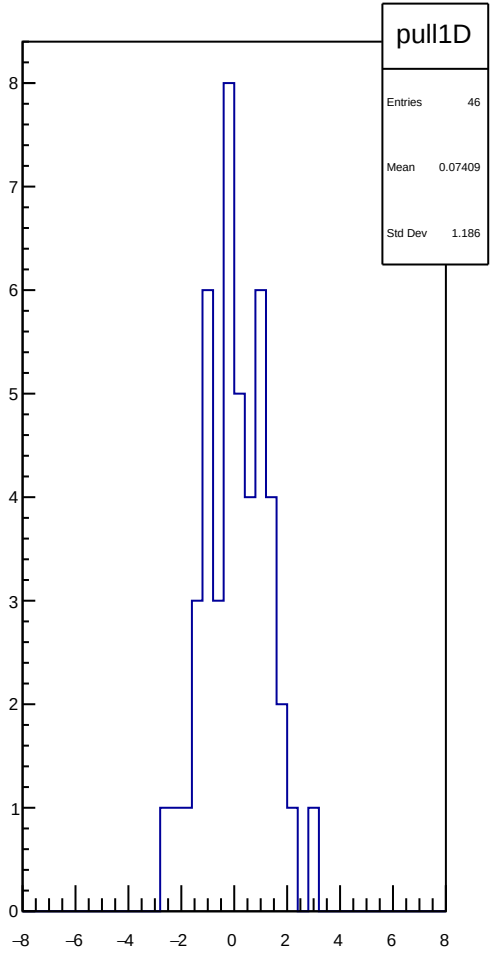

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 5.434 / 45
p0 95.29 ± 8.027
pull
Entries 46
Mean 75.93
Std Dev 0

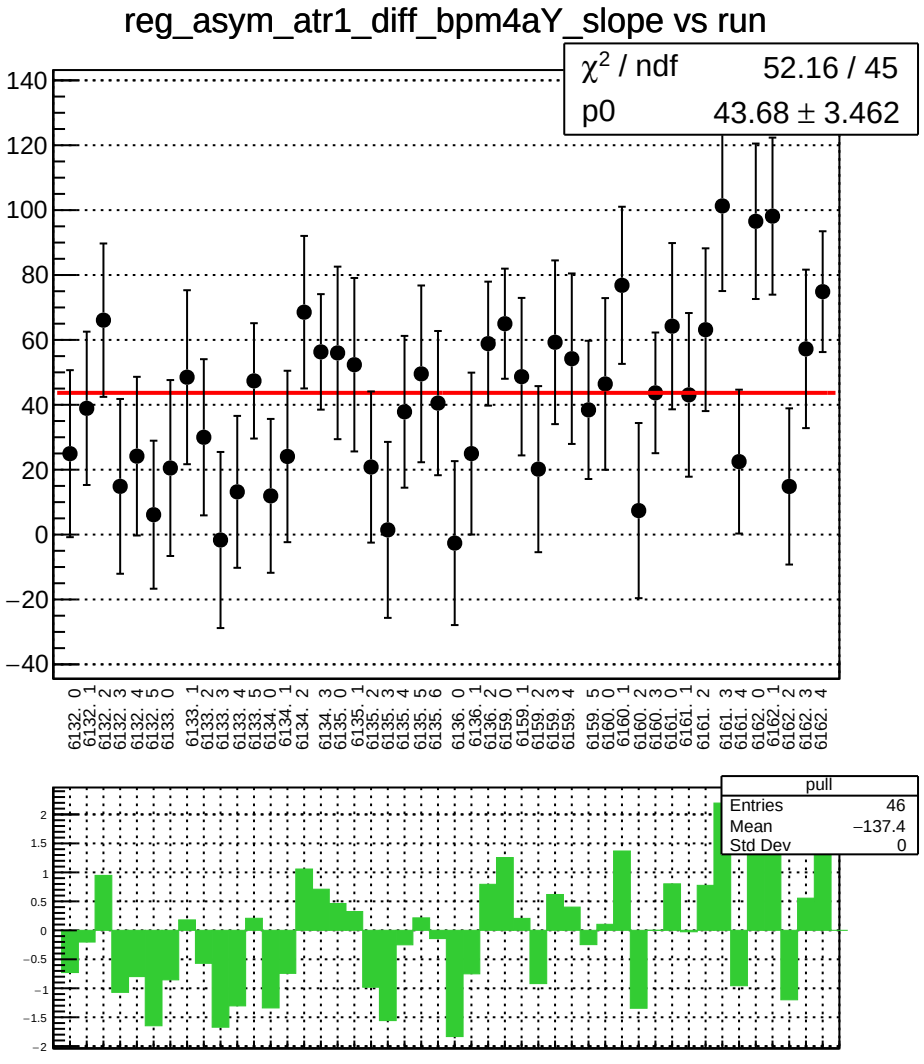

pull1D
Entries 46
Mean −0.02752
Std Dev 0.3426

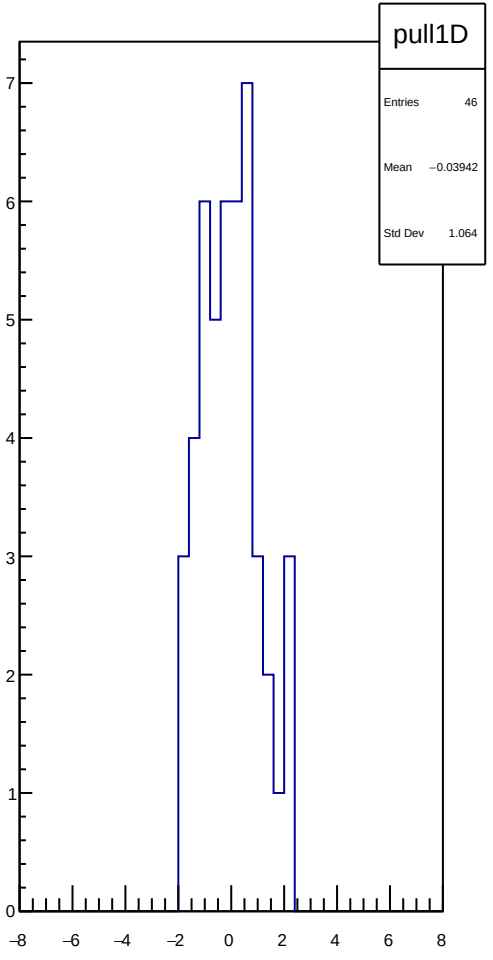

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 9.542 / 45
p0 −192 ± 0.6299
−180
−185
−190
−195
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 158.9
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

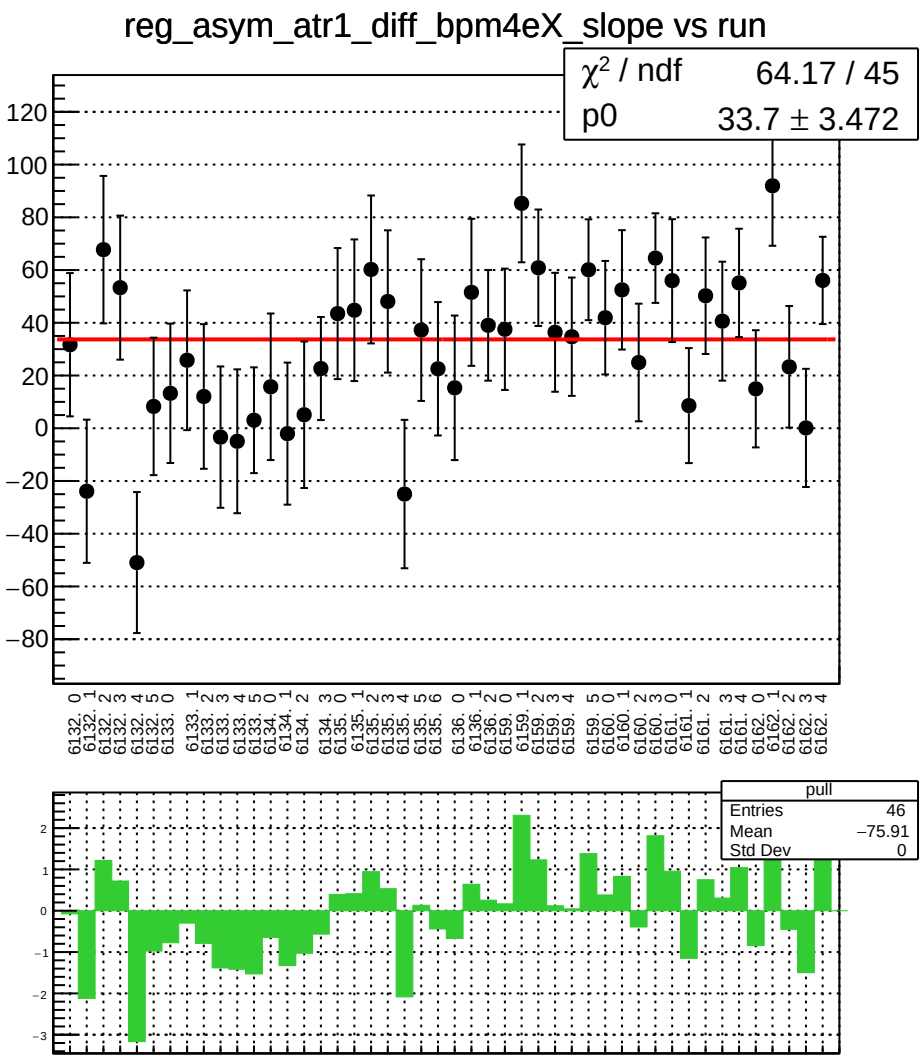

pull1D
Entries 46
Mean 0.02726
Std Dev 0.4546
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

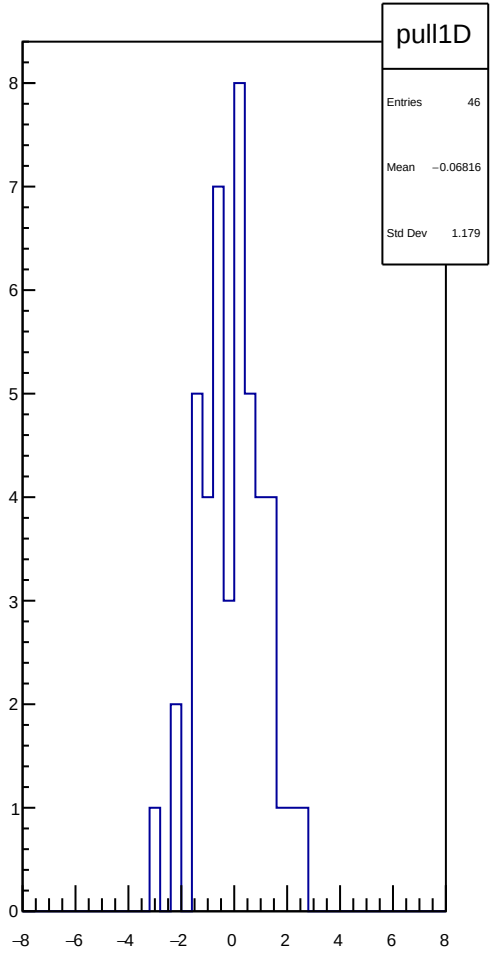

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 64.97 / 45
p0 −71.16 ± 2.829
pull
Entries 46
Mean −75.79
Std Dev 0

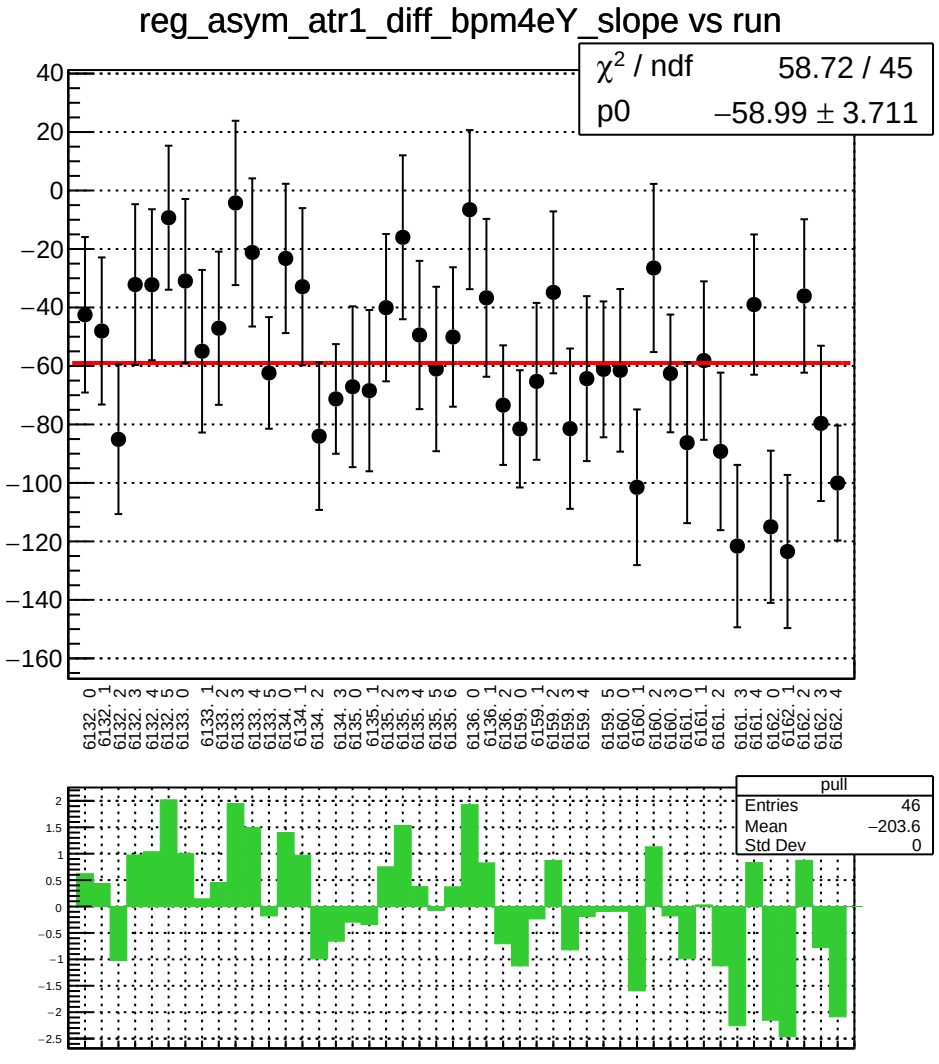

pull1D
Entries 46
Mean 0.07409
Std Dev 1.186

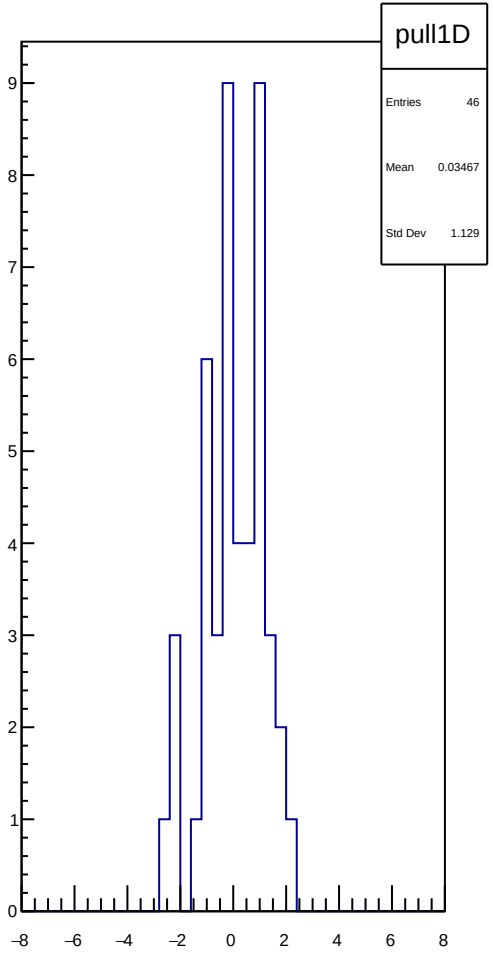

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 52.16 / 45
p0 43.68 ± 3.462
pull
Entries 46
Mean −137.4
Std Dev 0

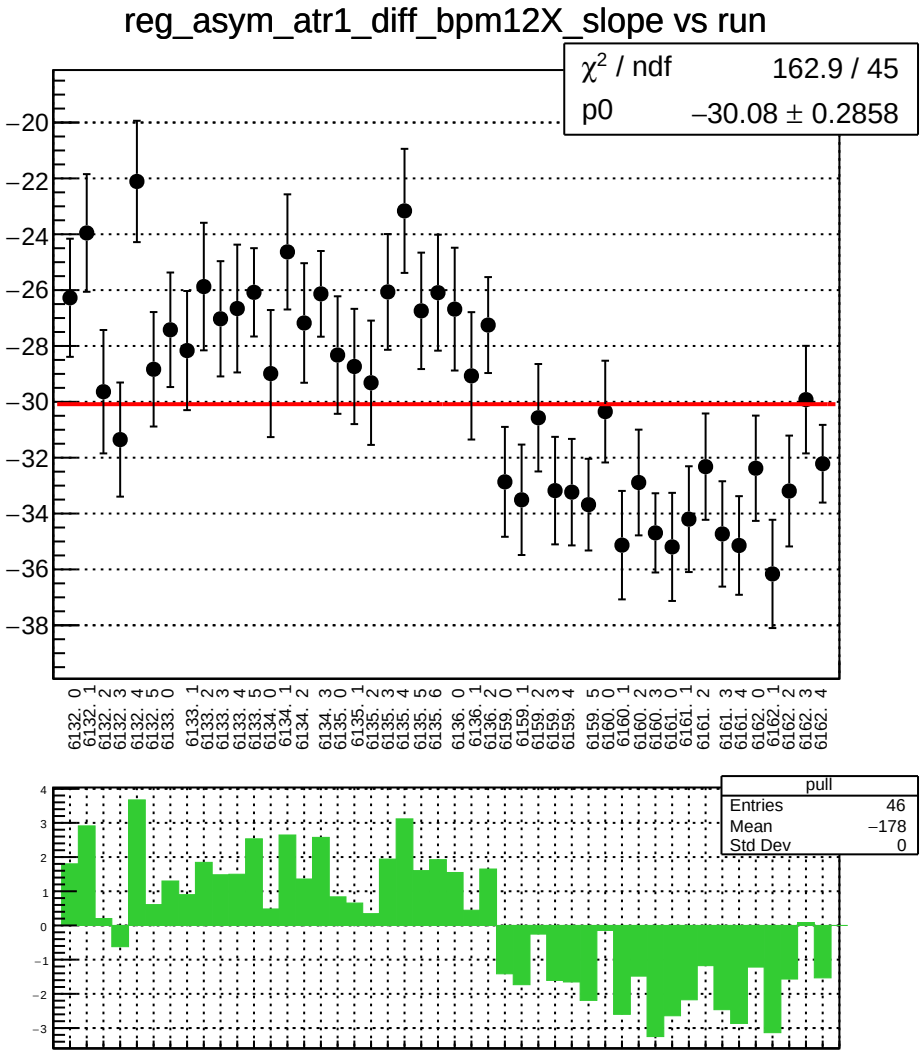

pull1D
Entries 46
Mean −0.03942
Std Dev 1.064

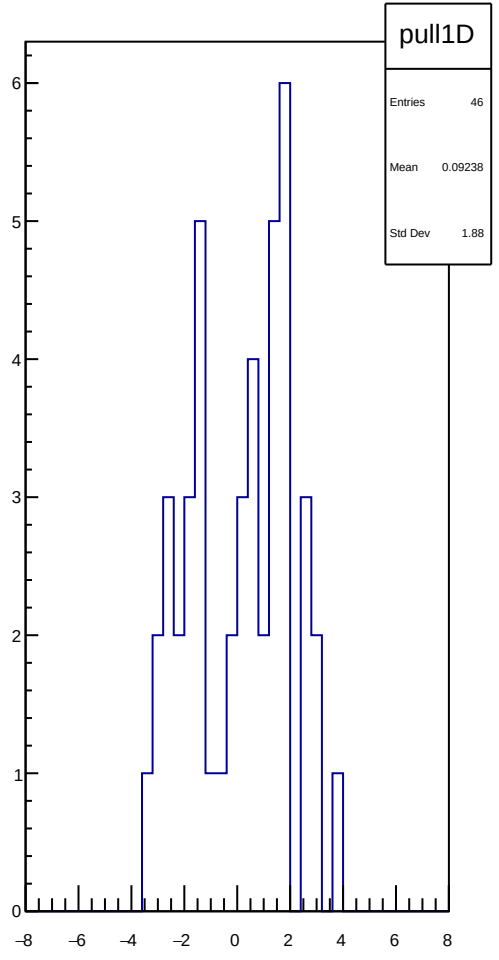

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 64.17 / 45
p0 33.7 ± 3.472
pull
Entries 46
Mean −75.91
Std Dev 0

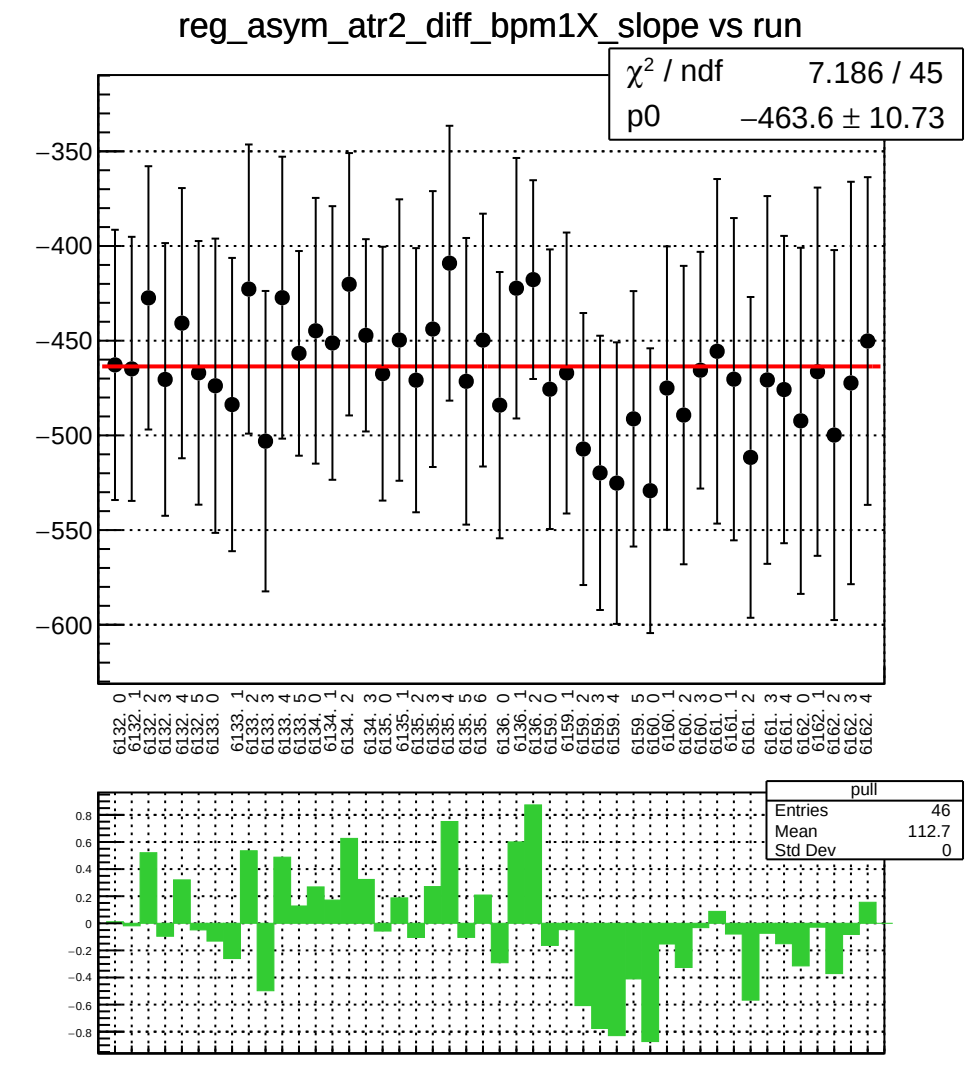

pull1D
Entries 46
Mean −0.06816
Std Dev 1.179

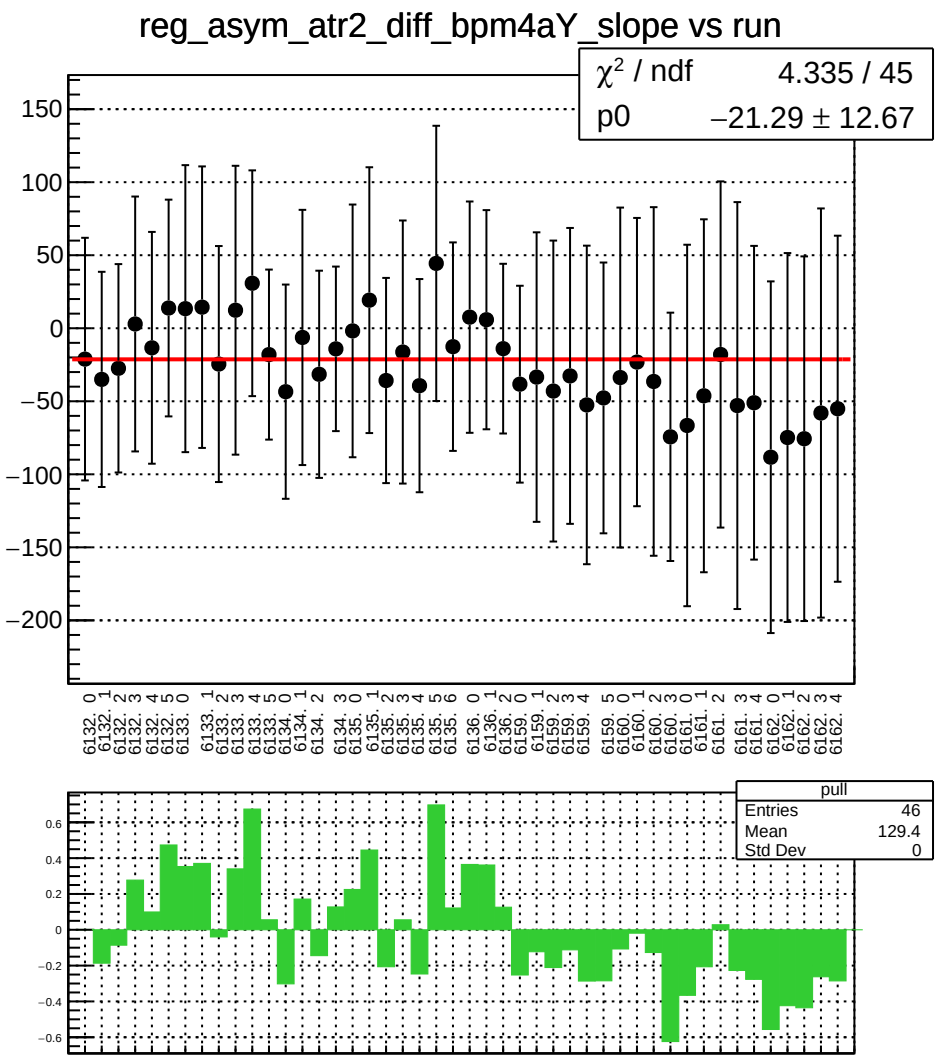

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 58.72 / 45
p0 −58.99 ± 3.711
pull
Entries 46
Mean −203.6
Std Dev 0

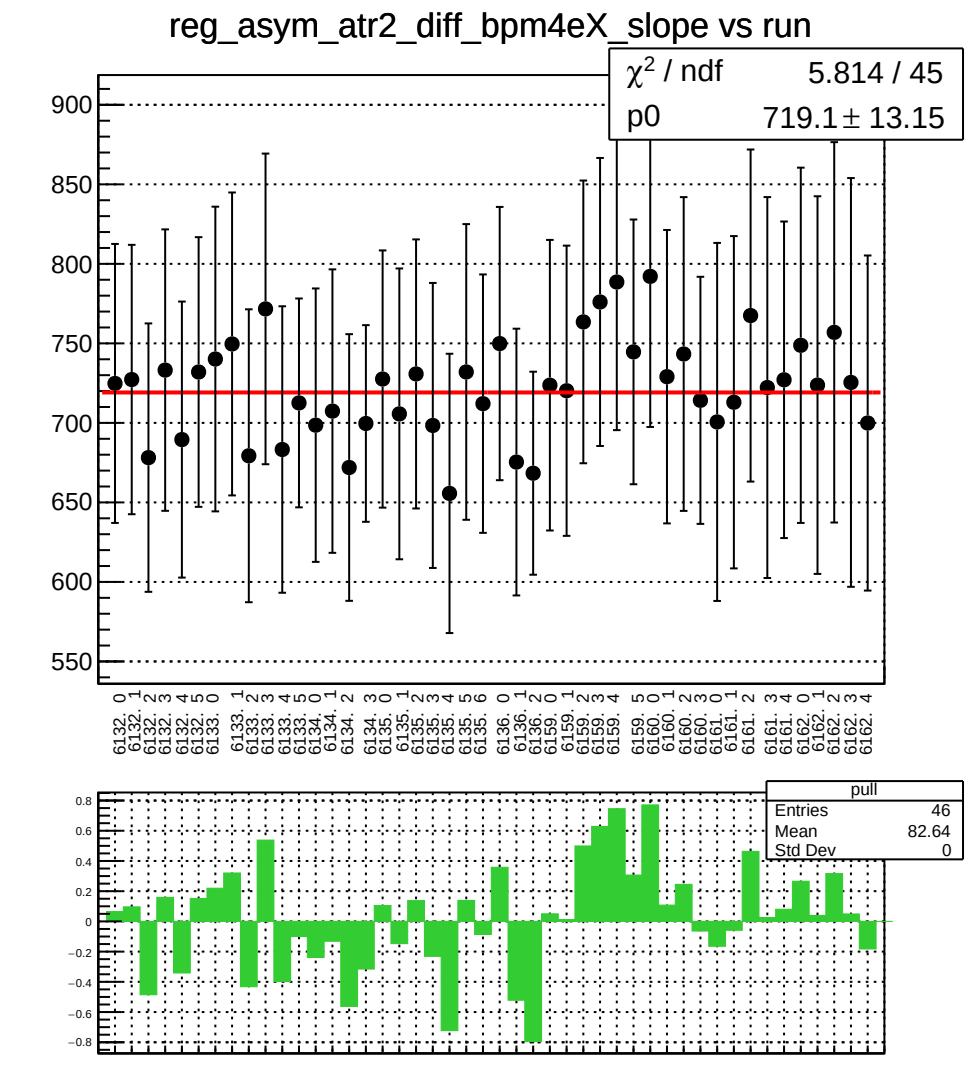

pull1D
Entries 46
Mean 0.03467
Std Dev 1.129

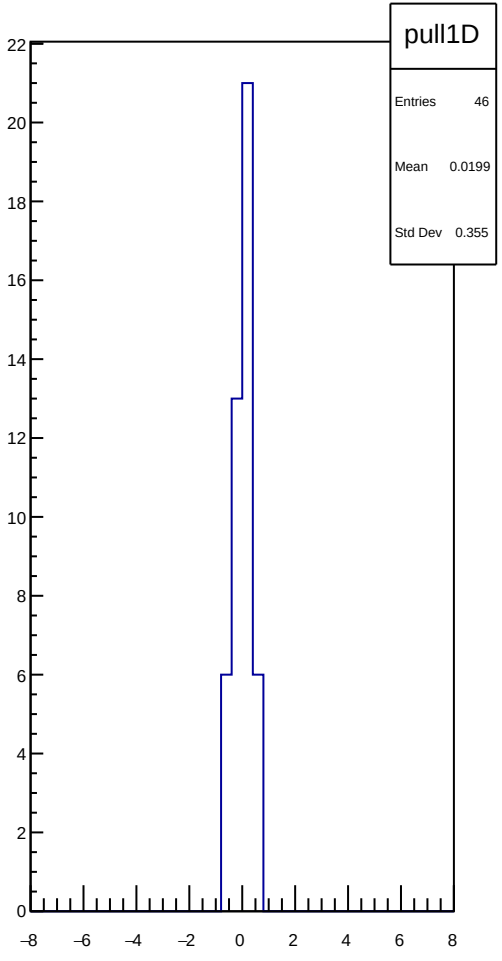

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 162.9 / 45
p0 −30.08 ± 0.2858
pull
Entries 46
Mean −178
Std Dev 0

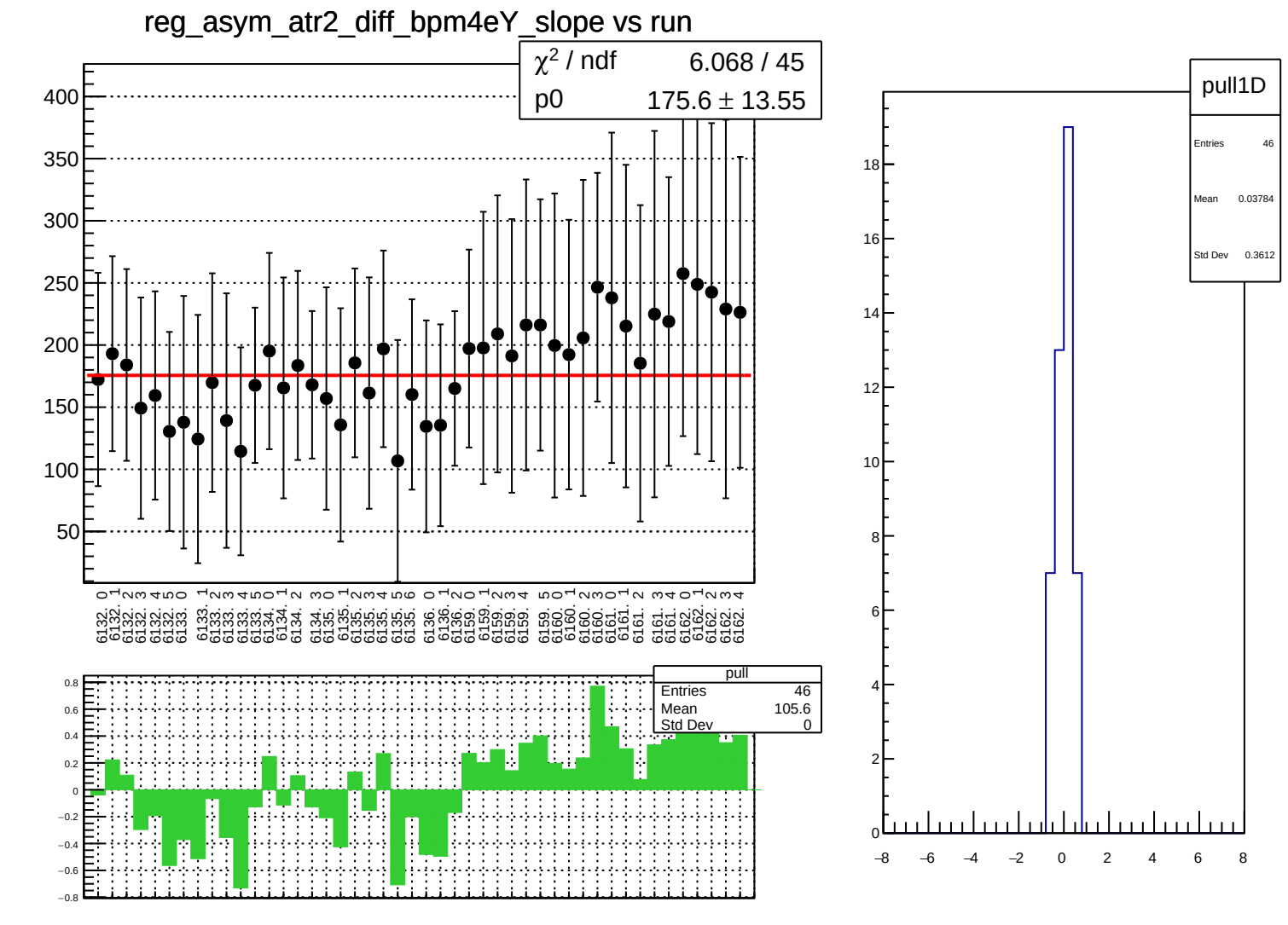

pull1D
Entries 46
Mean 0.09238
Std Dev 1.88

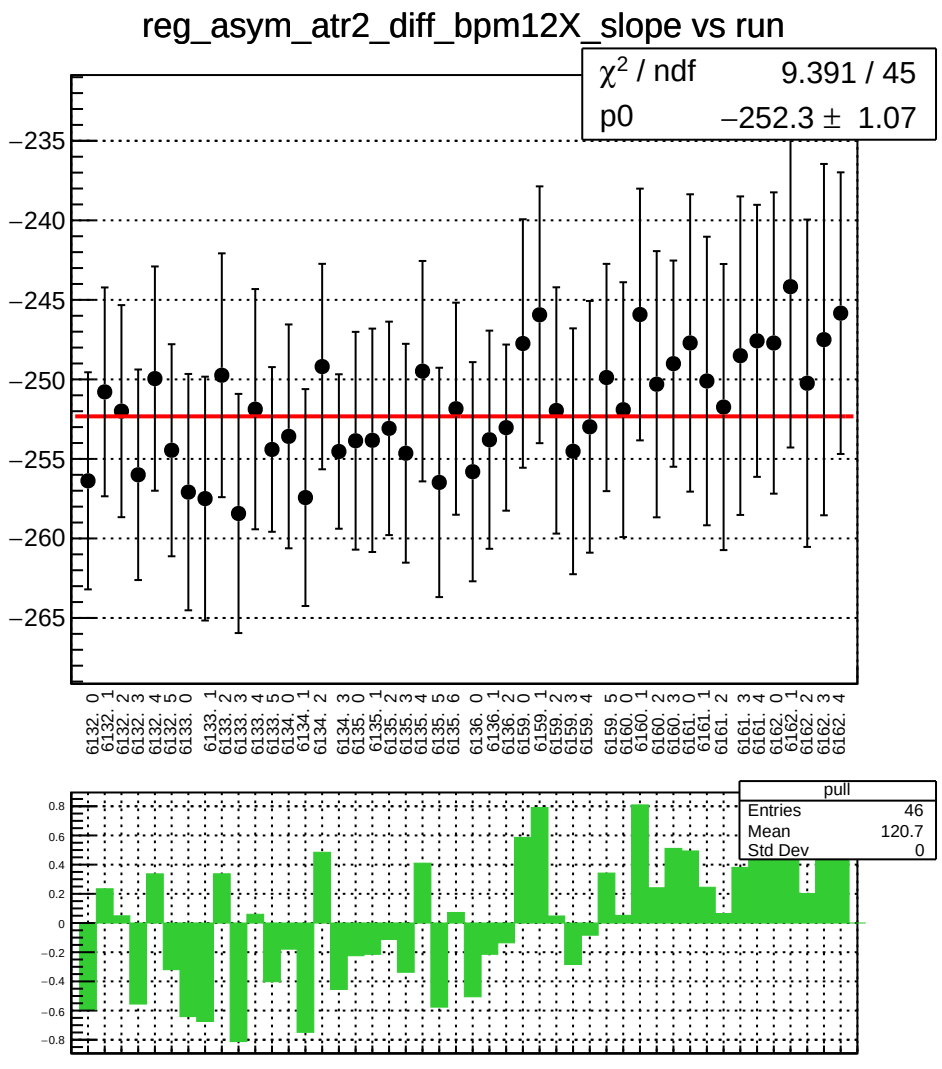

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 7.186 / 45
p0 −463.6 ± 10.73
−350
−400
−450
−500
−550
−600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 112.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean −0.02087
Std Dev 0.3947
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

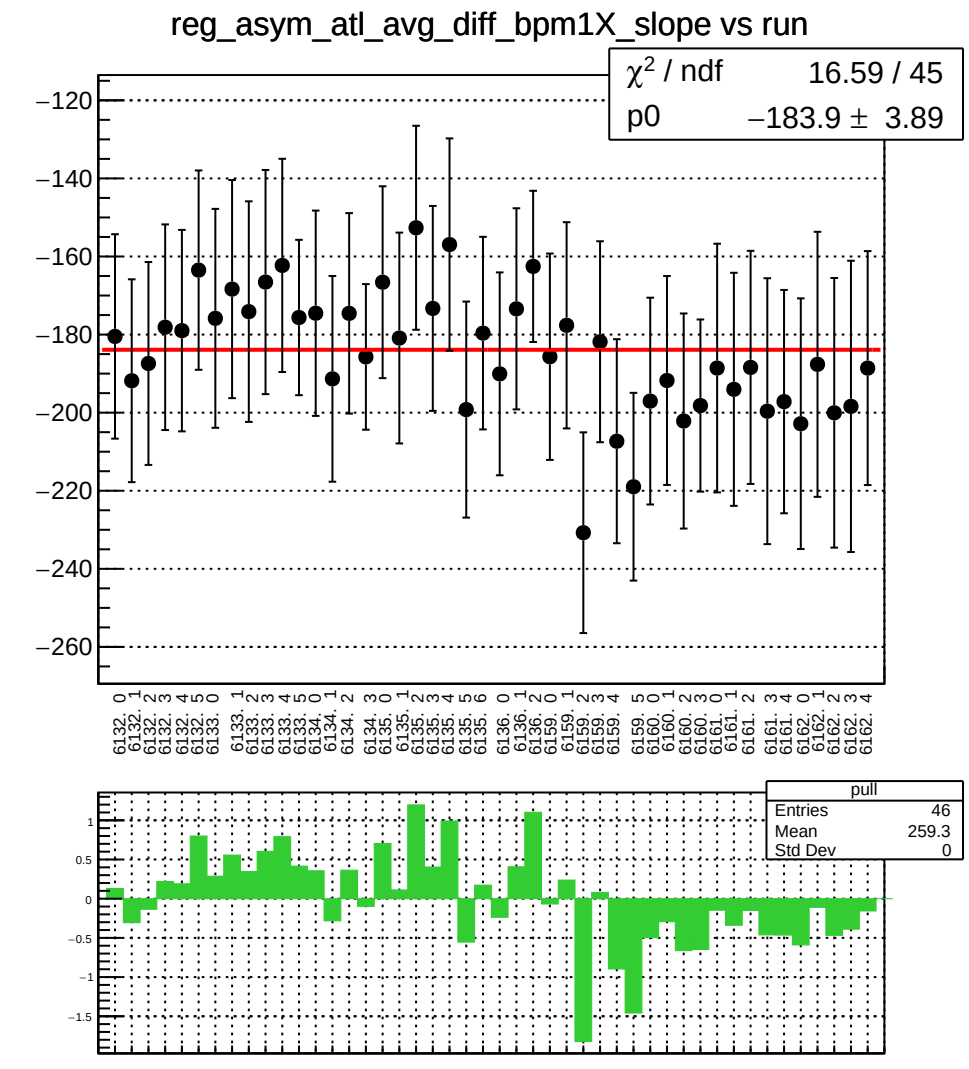

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 4.335 / 45
p0 −21.29 ± 12.67
150
100
50
0
−50
−100
−150
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 129.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 46
Mean −0.02233
Std Dev 0.3062
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

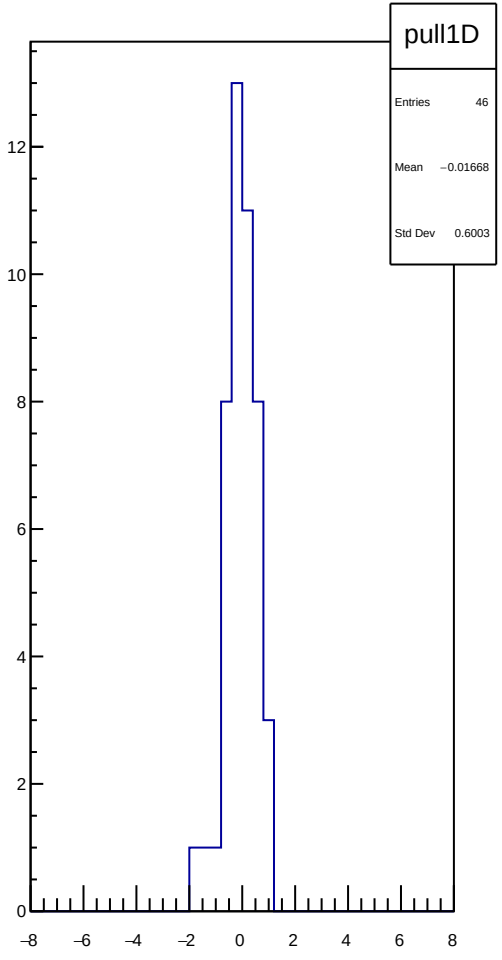

reg_asym_atr2_diff_bpm4eX_slope vs run
χ^2 / ndf 5.814 / 45
p0 719.1 ± 13.15
pull
Entries 46
Mean 82.64
Std Dev 0

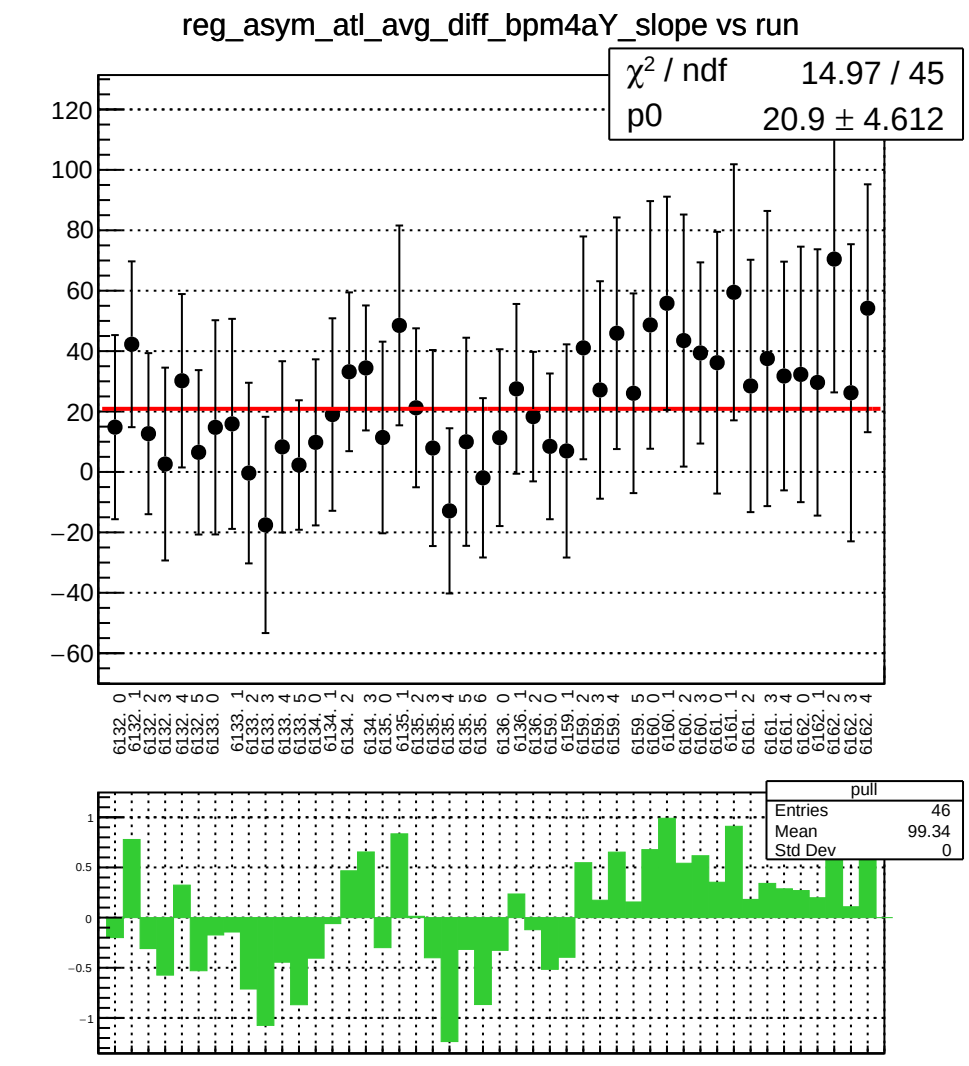

pull1D
Entries 46
Mean 0.0199
Std Dev 0.355

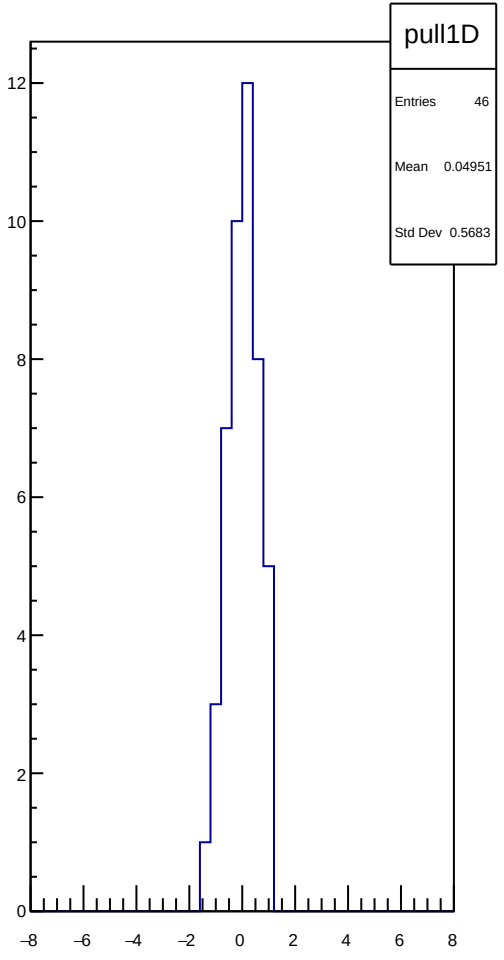

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 6.068 / 45
p0 175.6 ± 13.55
pull
Entries 46
Mean 105.6
Std Dev 0
pull1D
Entries 46
Mean 0.03784
Std Dev 0.3612

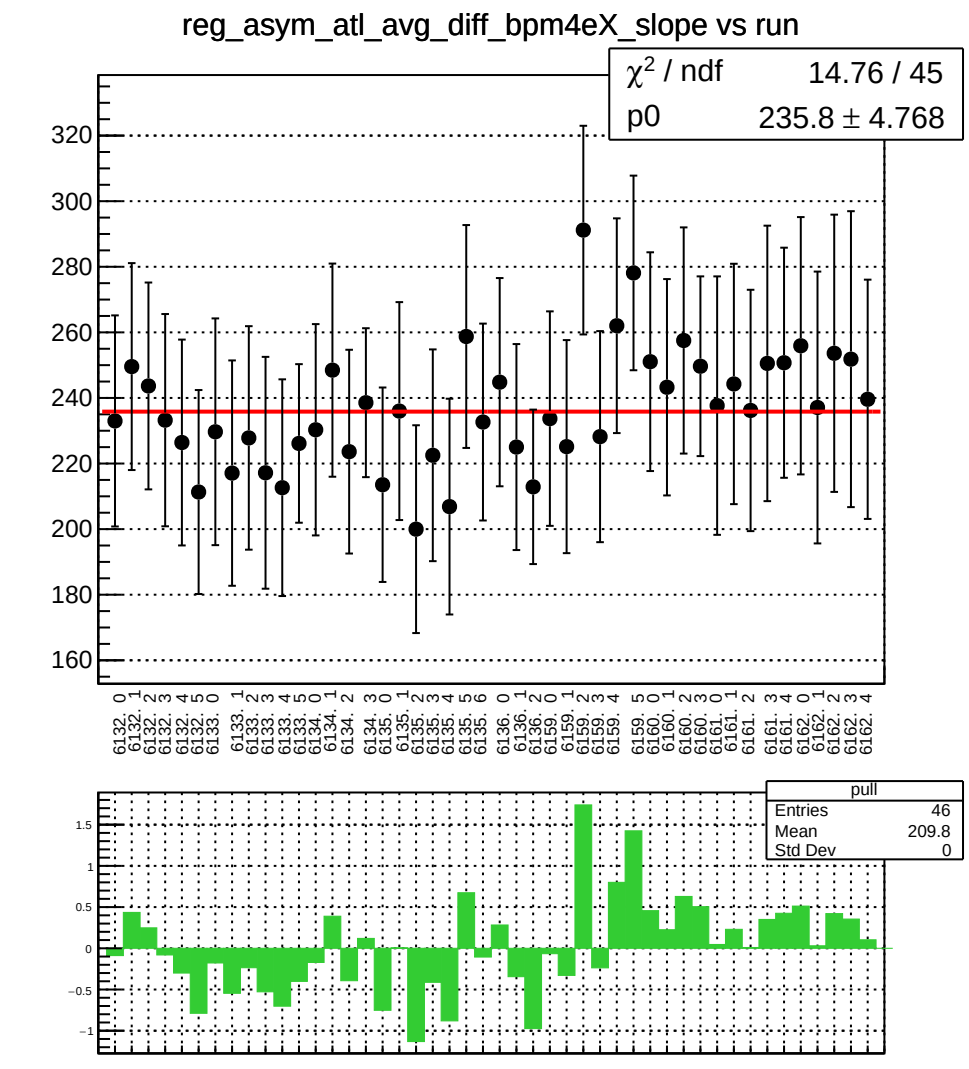

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 9.391 / 45
p0 −252.3 ± 1.07
−235
−240
−245
−250
−255
−260
−265
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 120.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean 0.03702
Std Dev 0.4503
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

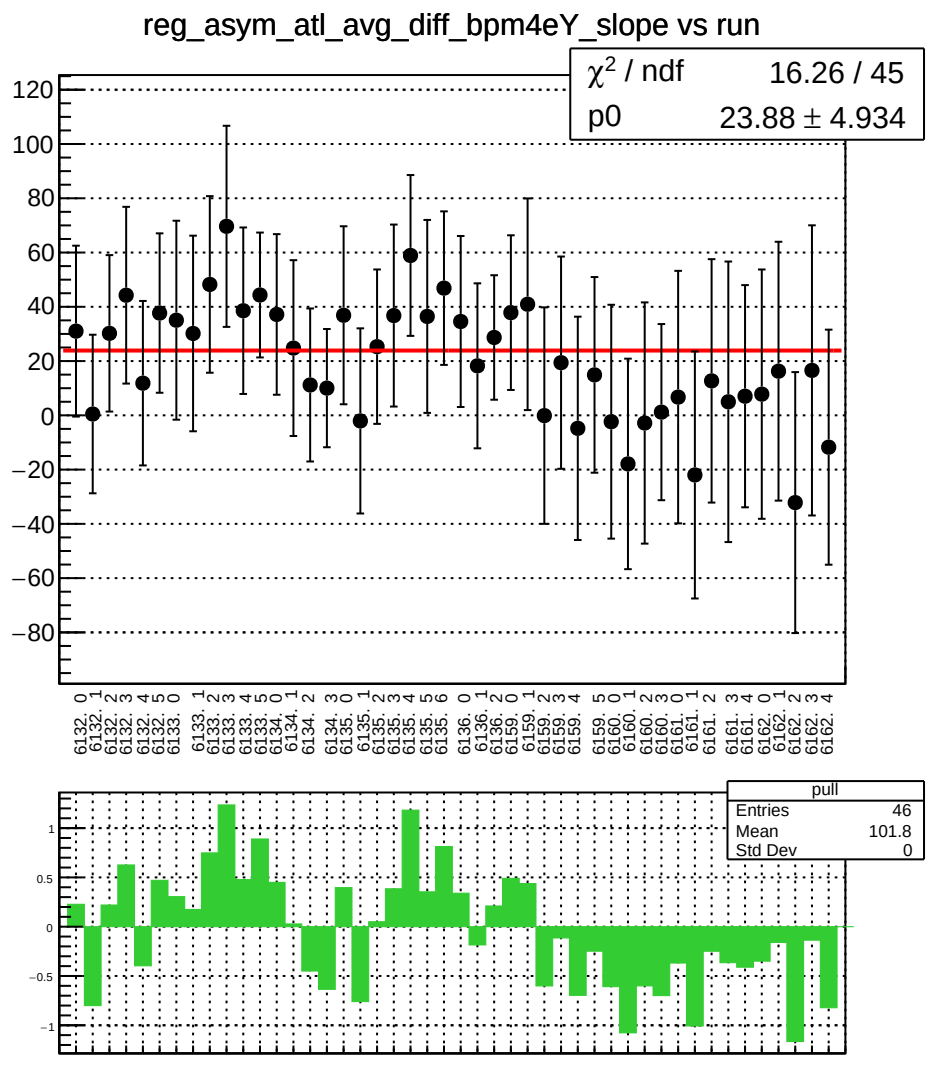

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 16.59 / 45
p0 −183.9 ± 3.89
−120
−140
−160
−180
−200
−220
−240
−260
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 259.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

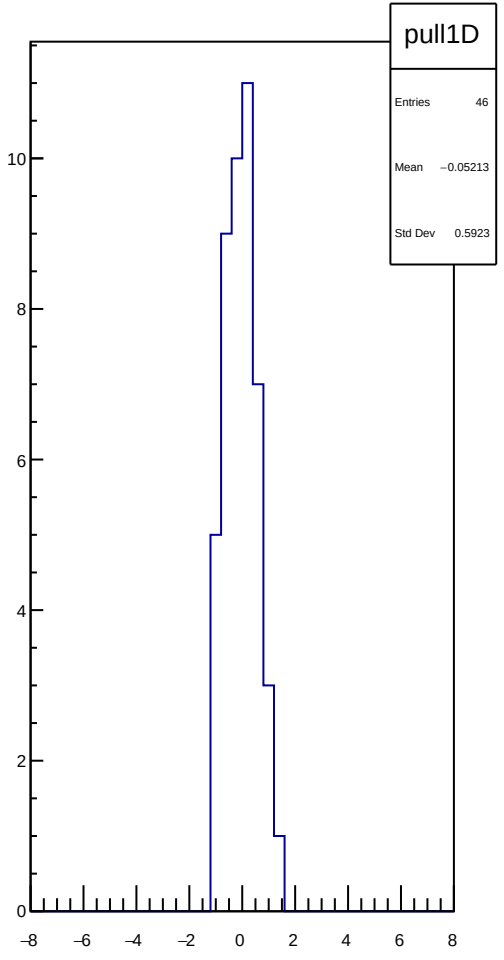

pull1D
Entries 46
Mean −0.01668
Std Dev 0.6003
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

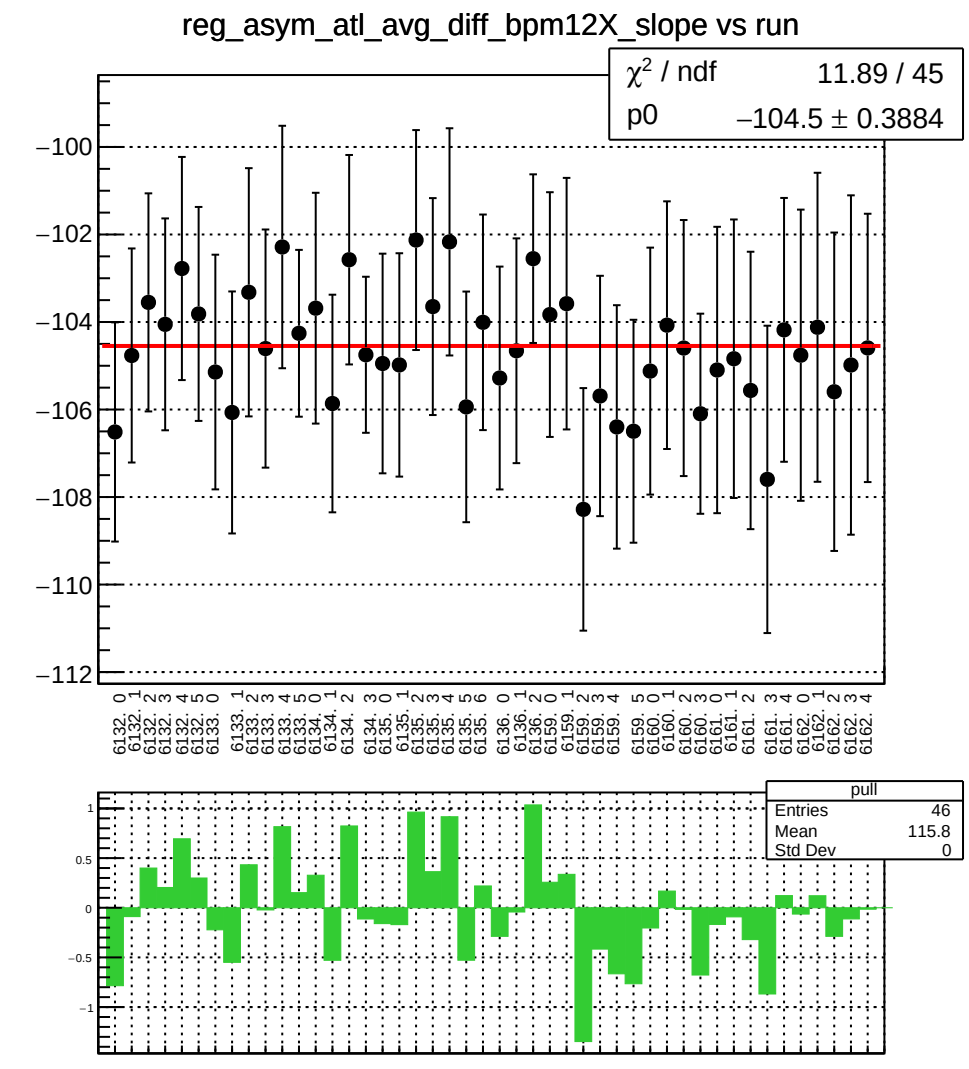

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.97 / 45
p0 20.9 ± 4.612
pull
Entries 46
Mean 99.34
Std Dev 0

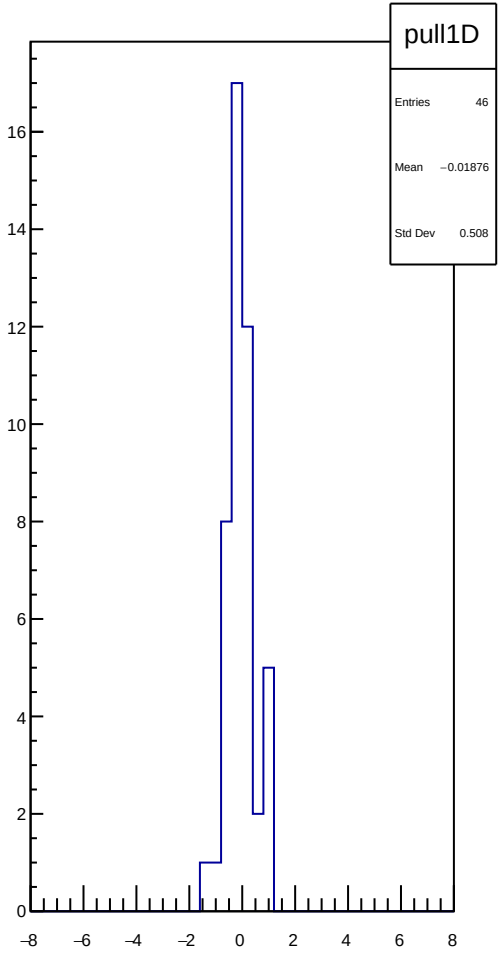

pull1D
Entries 46
Mean 0.04951
Std Dev 0.5683

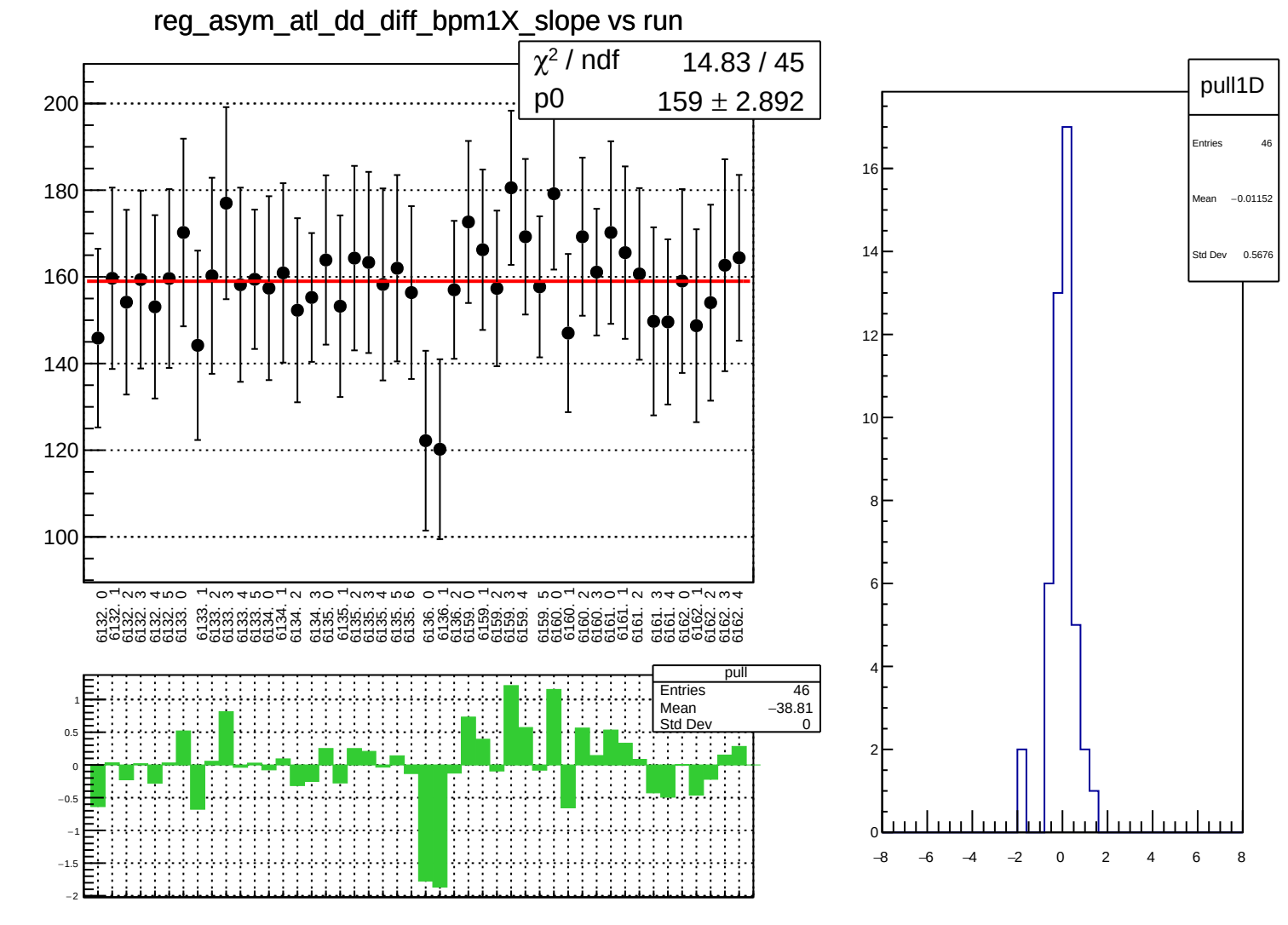

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.76 / 45
p0 235.8 ± 4.768
320
300
280
260
240
220
200
180
160
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 209.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean 0.01685
Std Dev 0.5662
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

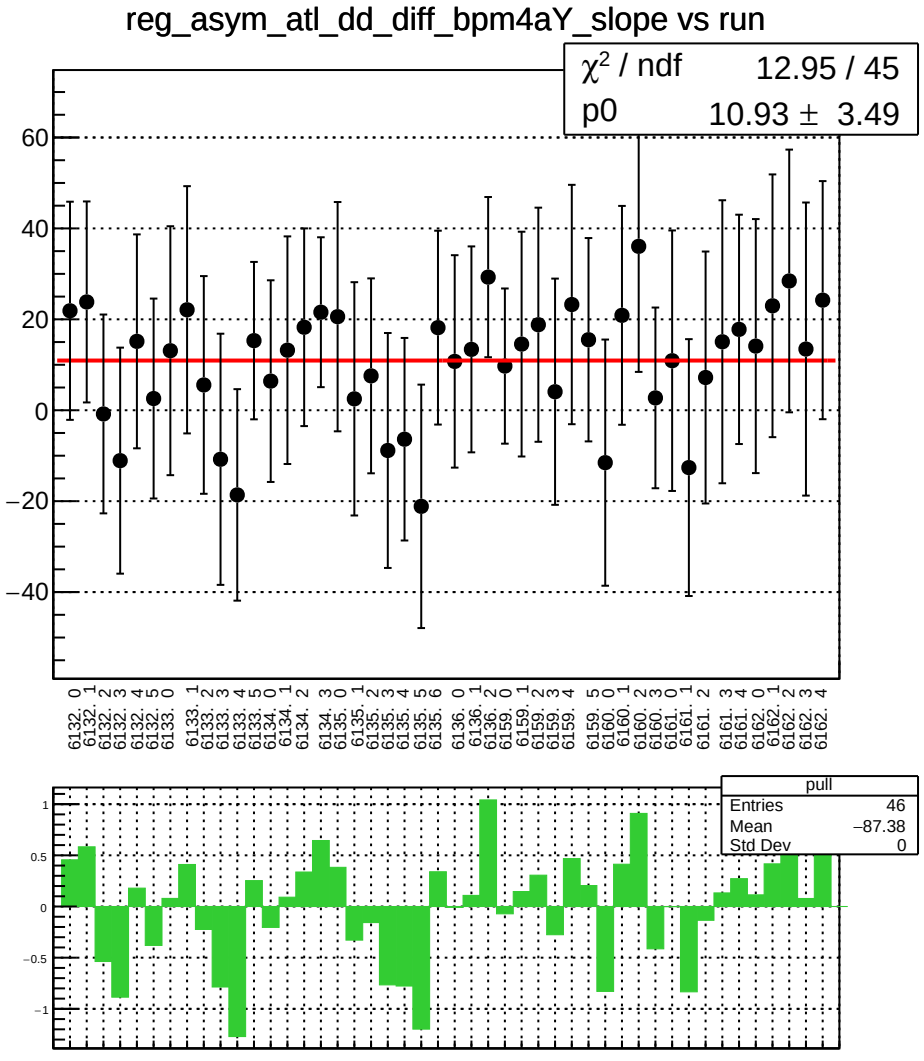

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.26 / 45
p0 23.88 ± 4.934
pull
Entries 46
Mean 101.8
Std Dev 0

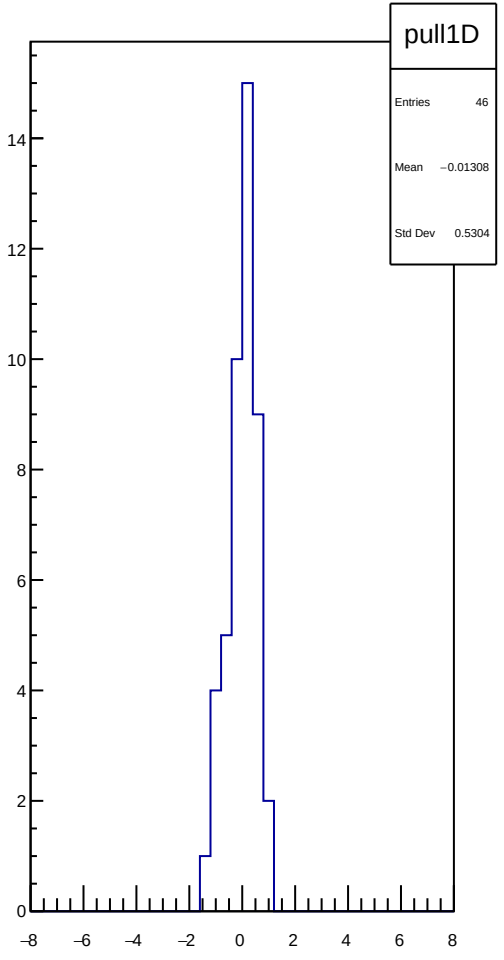

pull1D
Entries 46
Mean −0.05213
Std Dev 0.5923

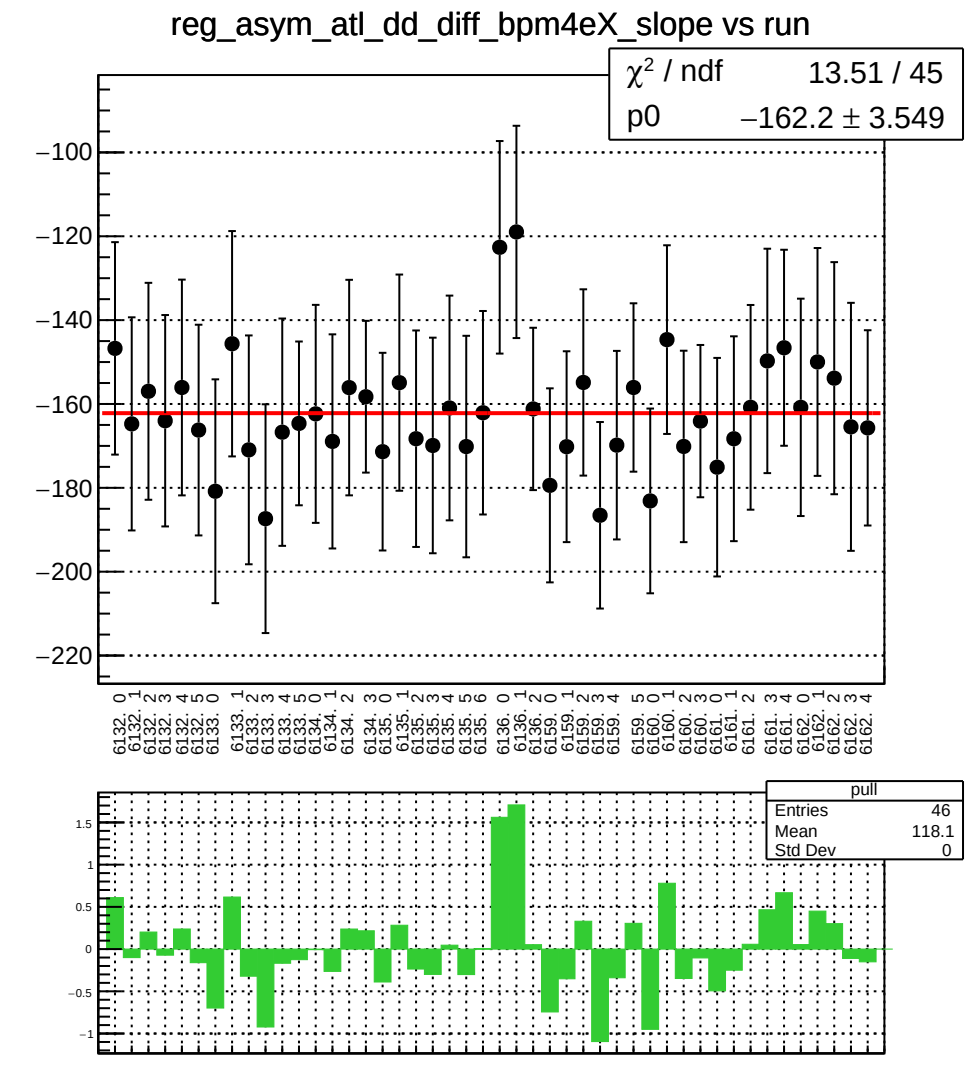

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 11.89 / 45
p0 −104.5 ± 0.3884
pull
Entries 46
Mean 115.8
Std Dev 0

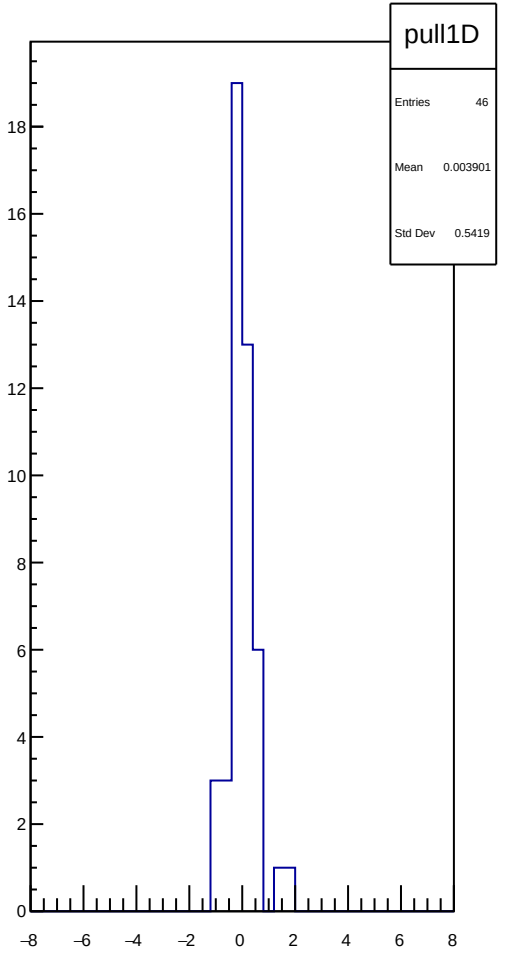

pull1D
Entries 46
Mean −0.01876
Std Dev 0.508

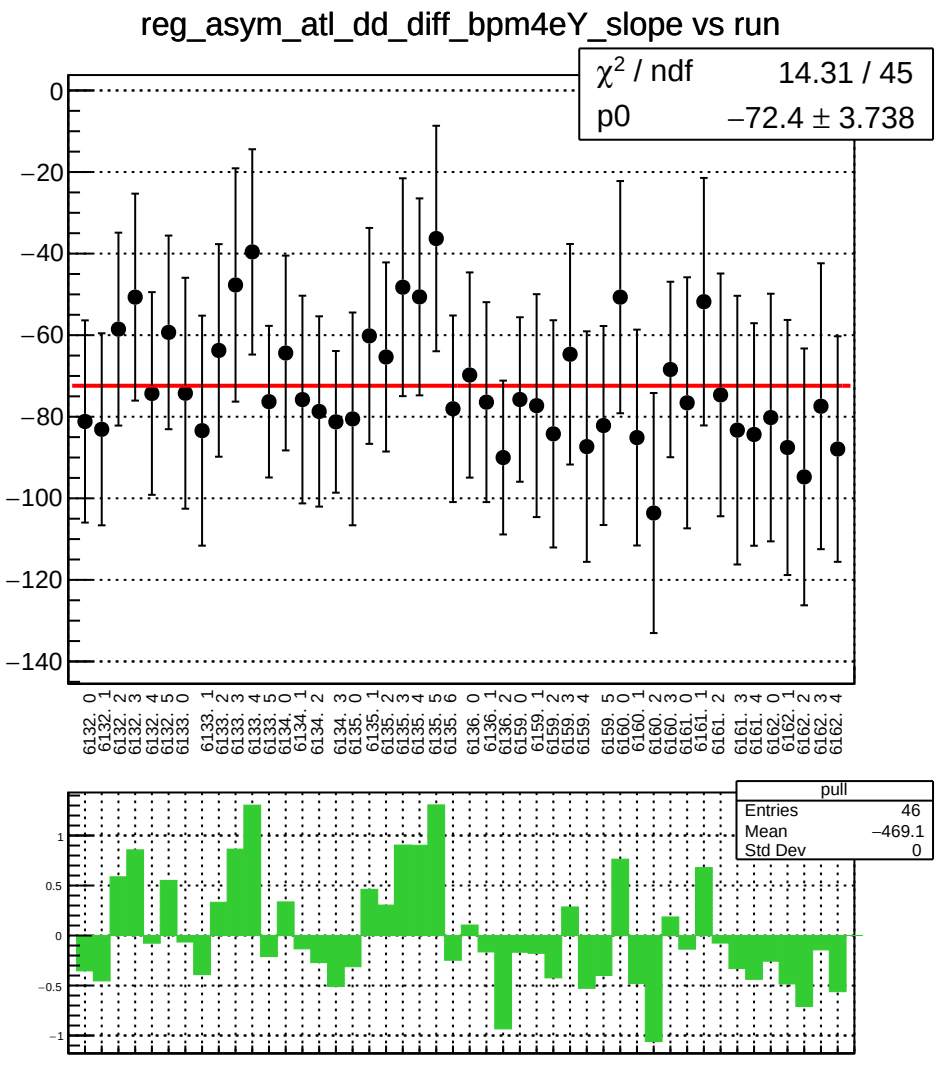

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 14.83 / 45
p0 159 ± 2.892
pull
Entries 46
Mean −38.81
Std Dev 0
pull1D
Entries 46
Mean −0.01152
Std Dev 0.5676

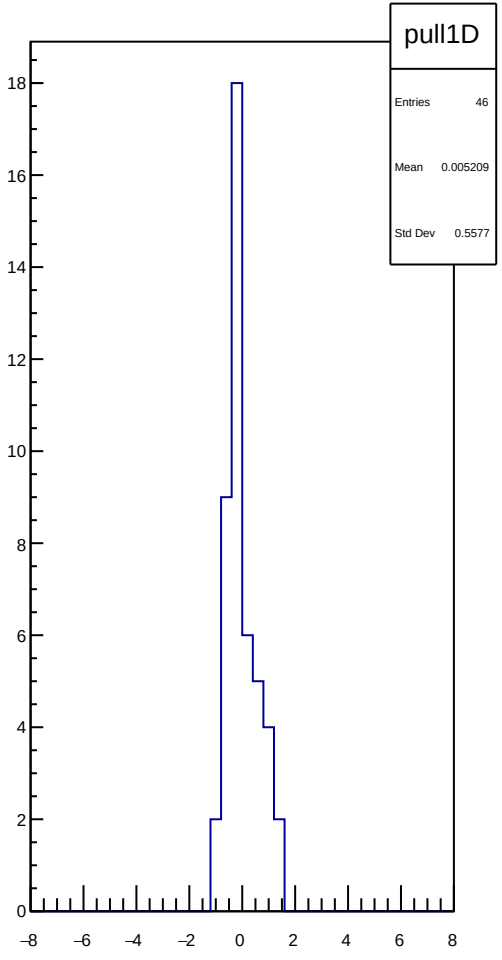

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.95 / 45
p0 10.93 ± 3.49
pull
Entries 46
Mean −87.38
Std Dev 0

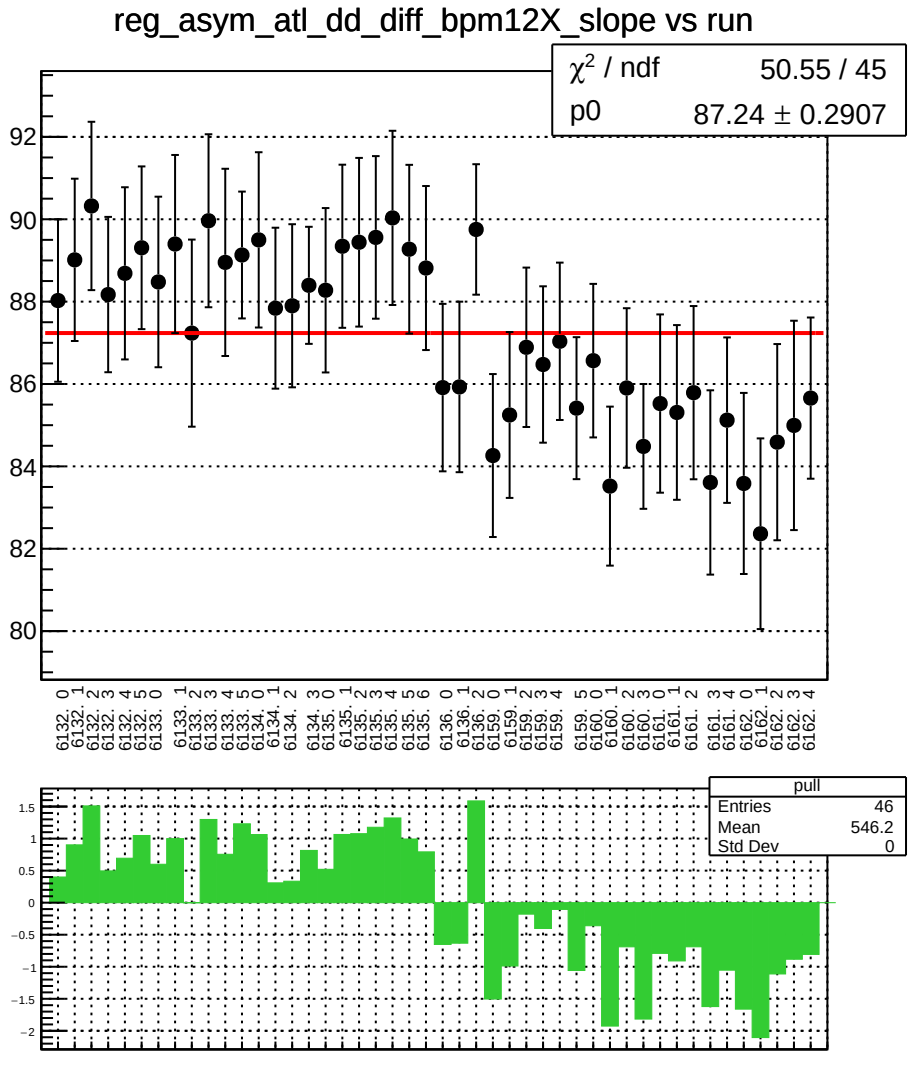

pull1D
Entries 46
Mean −0.01308
Std Dev 0.5304

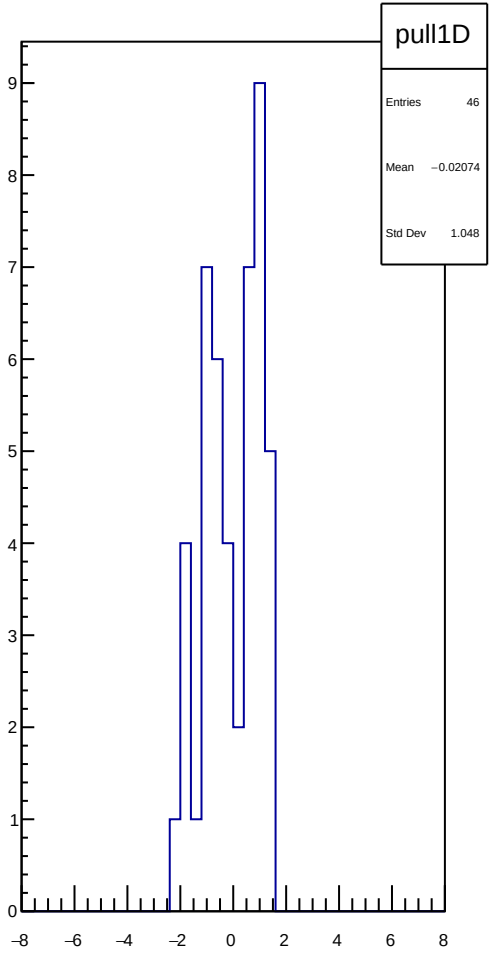

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.51 / 45
p0 −162.2 ± 3.549
−100
−120
−140
−160
−180
−200
−220
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 118.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1

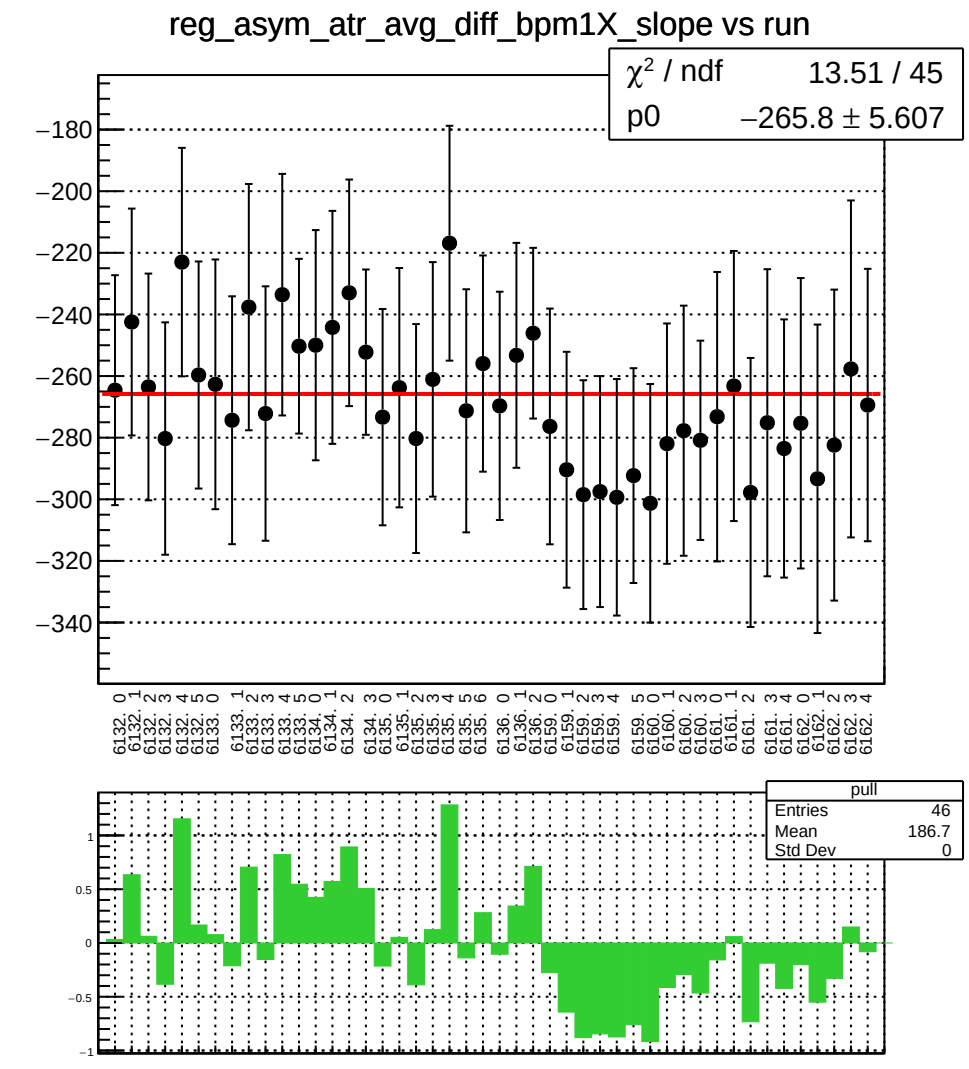

pull1D
Entries 46
Mean 0.003901
Std Dev 0.5419
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

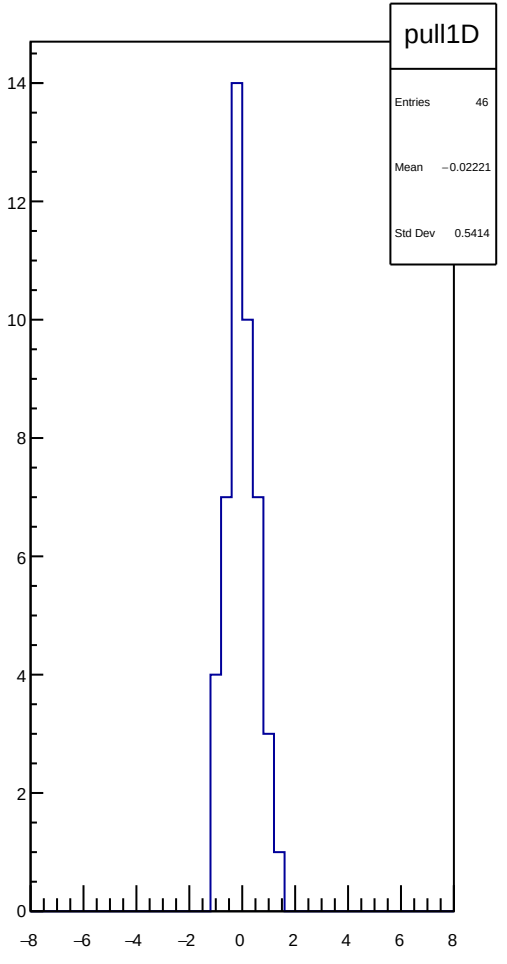

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.31 / 45
p0 −72.4 ± 3.738
0
−20
−40
−60
−80
−100
−120
−140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −469.1
Std Dev 0
1
0.5
0
−0.5
−1

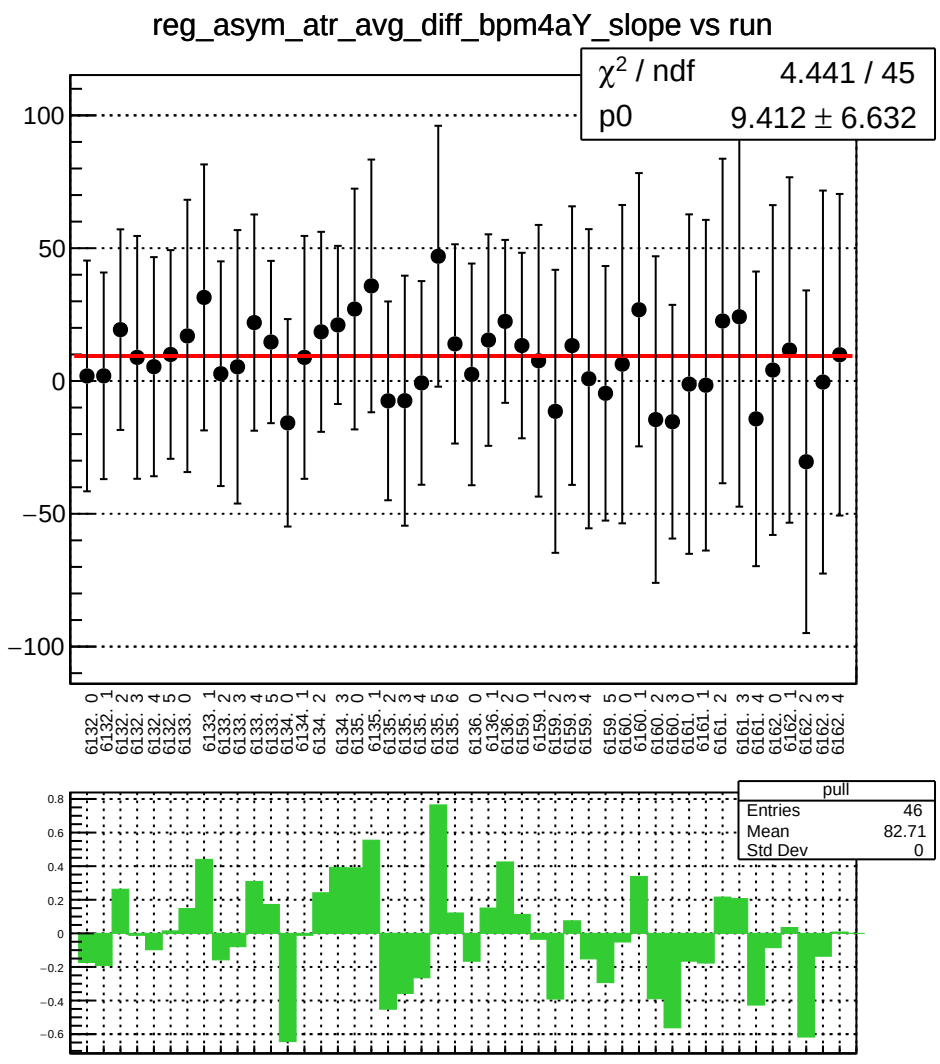

pull1D
Entries 46
Mean 0.005209
Std Dev 0.5577
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

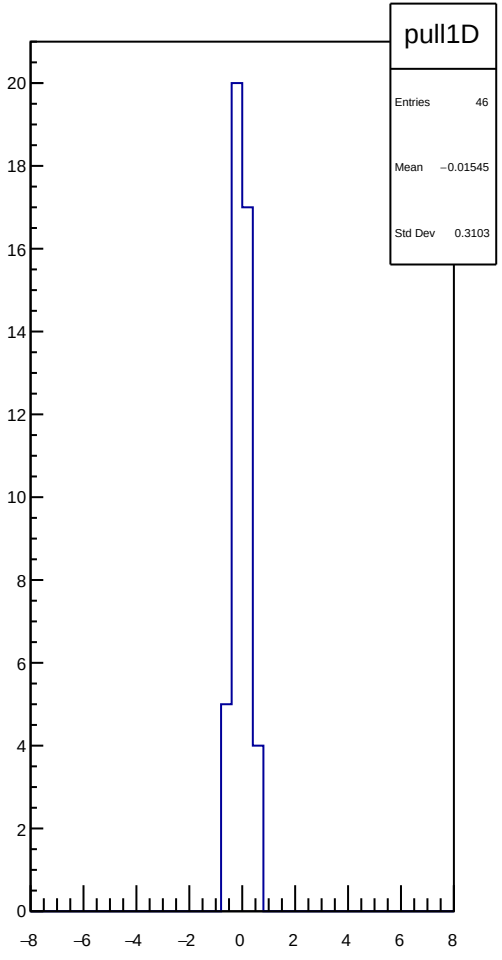

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 50.55 / 45
p0 87.24 ± 0.2907
92
90
88
86
84
82
80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 546.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

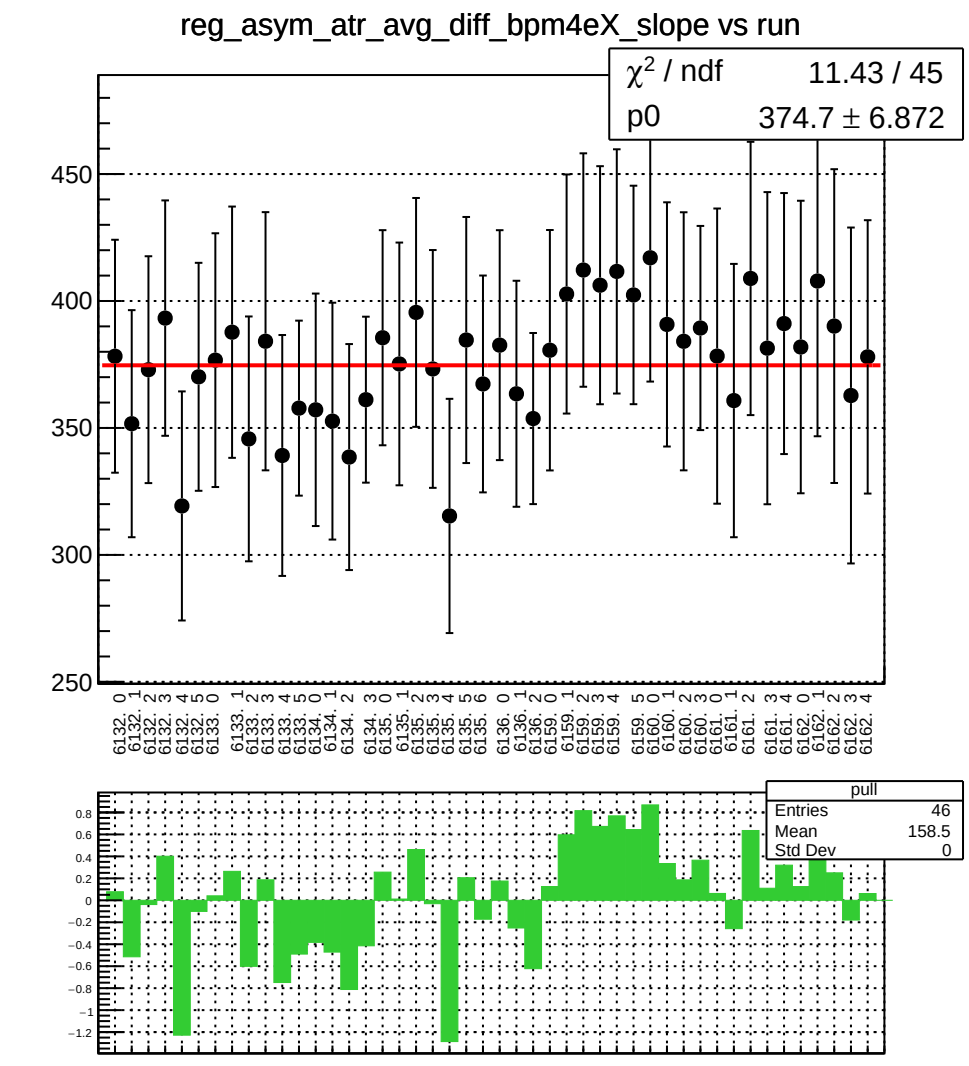

pull1D
Entries 46
Mean −0.02074
Std Dev 1.048
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

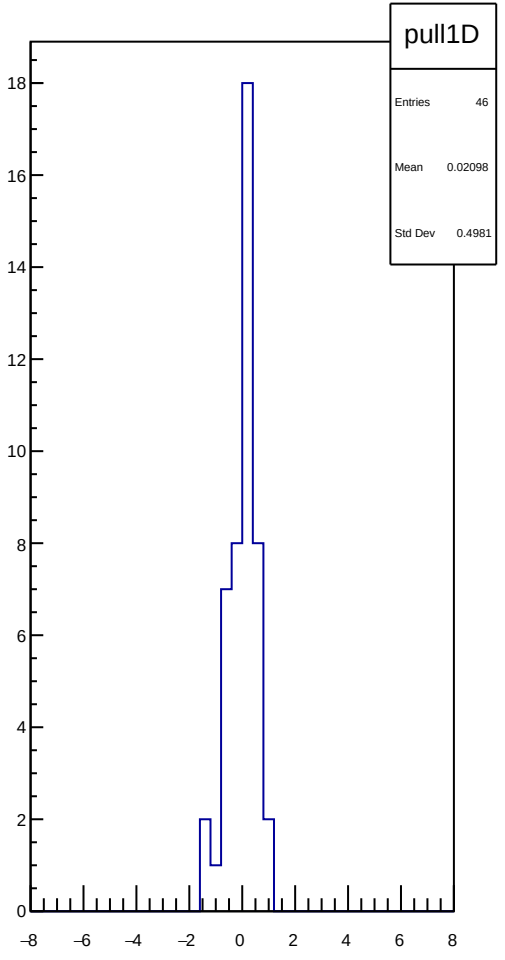

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 13.51 / 45
p0 −265.8 ± 5.607
−180
−200
−220
−240
−260
−280
−300
−320
−340
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 186.7
Std Dev 0
1
0.5
0
−0.5
−1

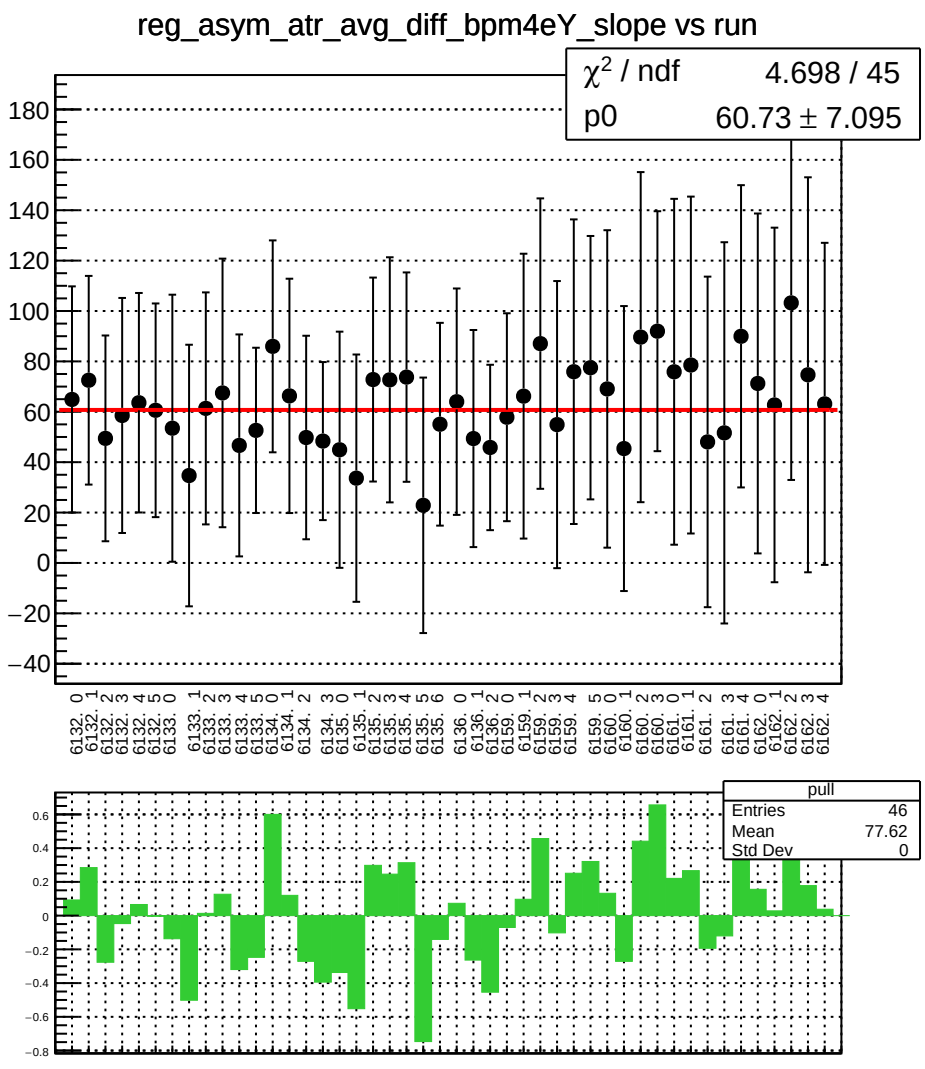

pull1D
Entries 46
Mean −0.02221
Std Dev 0.5414
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

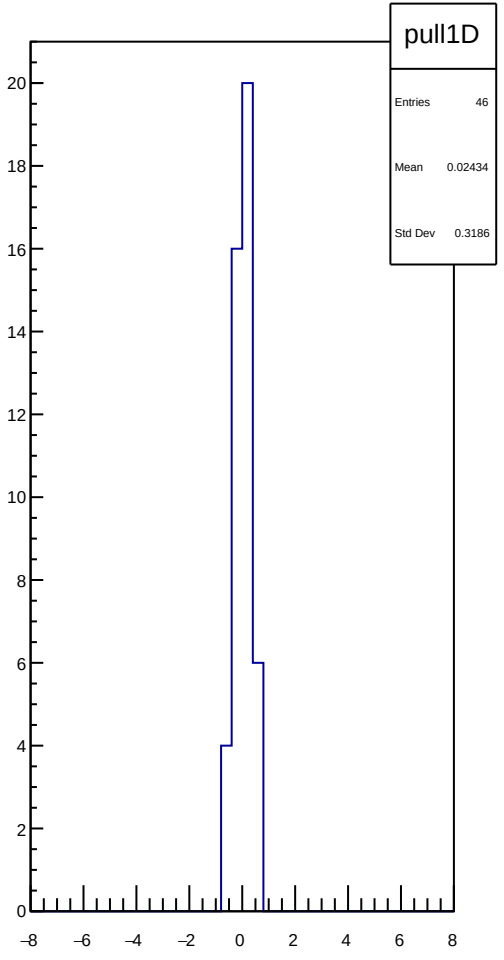

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.441 / 45
p0 9.412 ± 6.632
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 82.71
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

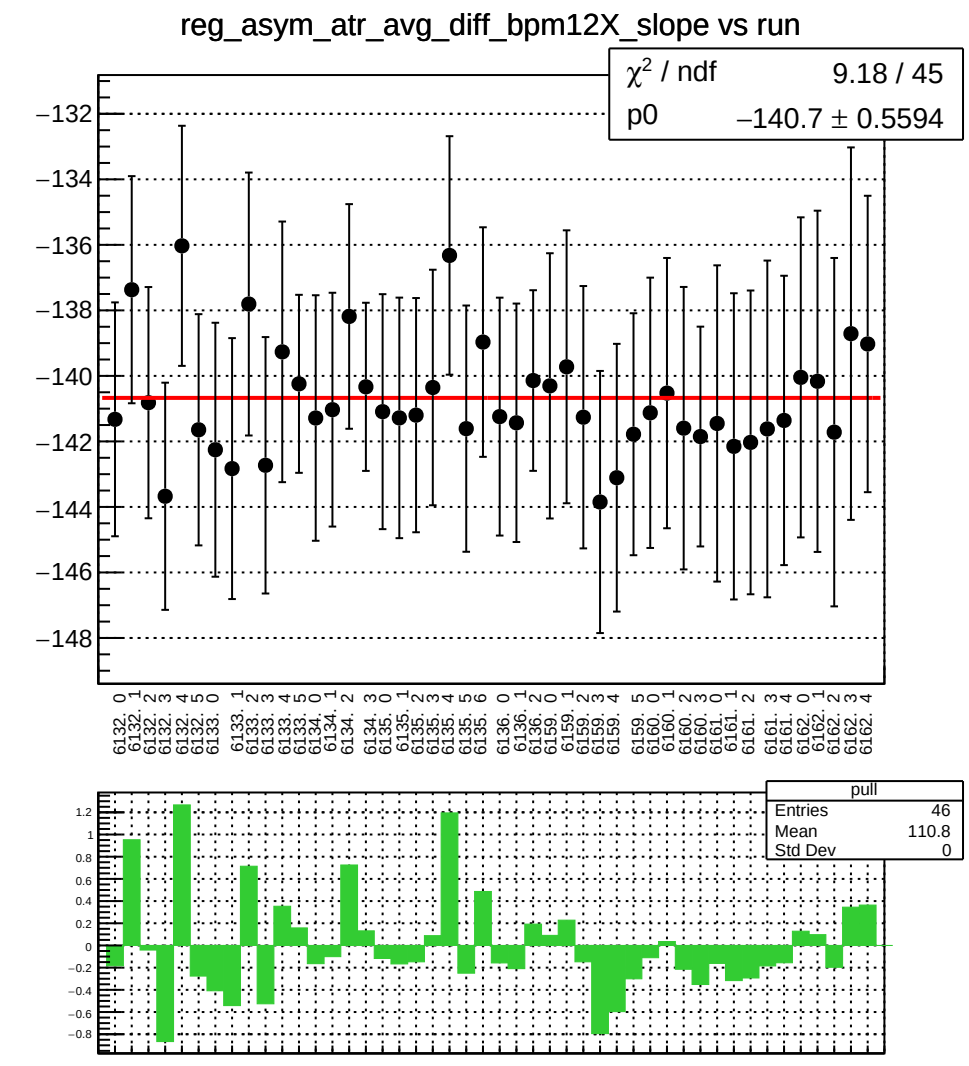

pull1D
Entries 46
Mean −0.01545
Std Dev 0.3103
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

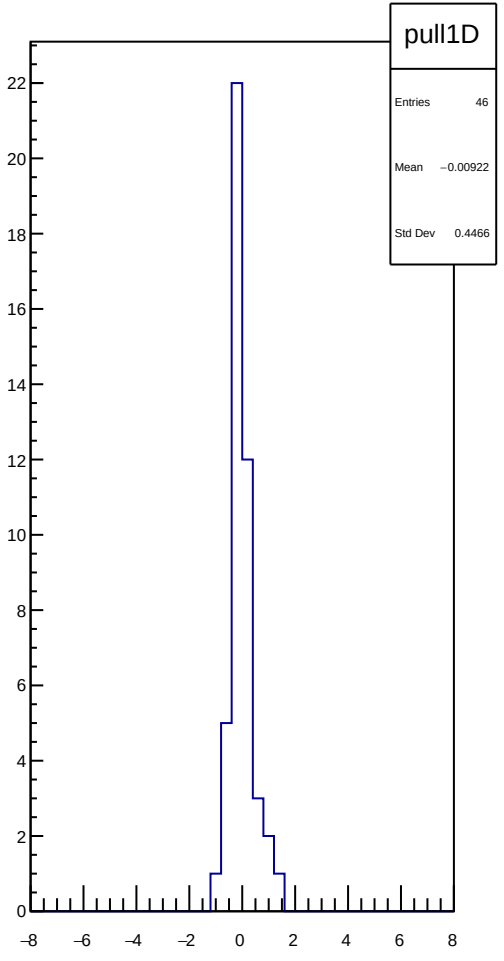

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.43 / 45
p0 374.7 ± 6.872
pull
Entries 46
Mean 158.5
Std Dev 0

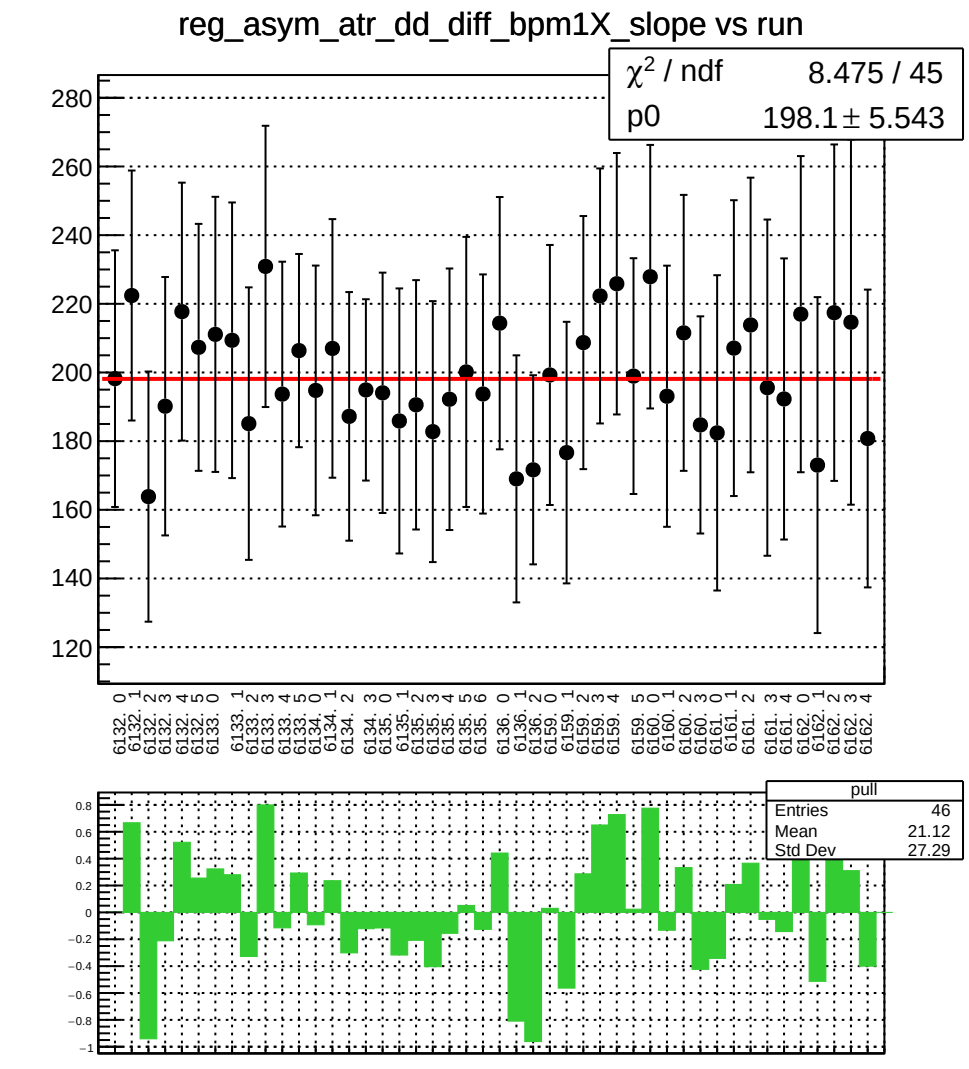

pull1D
Entries 46
Mean 0.02098
Std Dev 0.4981

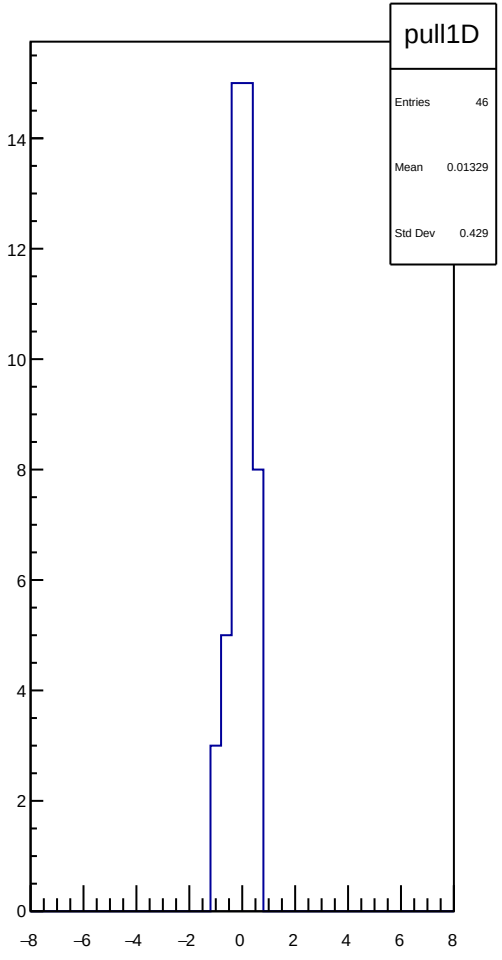

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.698 / 45
p0 60.73 ± 7.095
pull
Entries 46
Mean 77.62
Std Dev 0

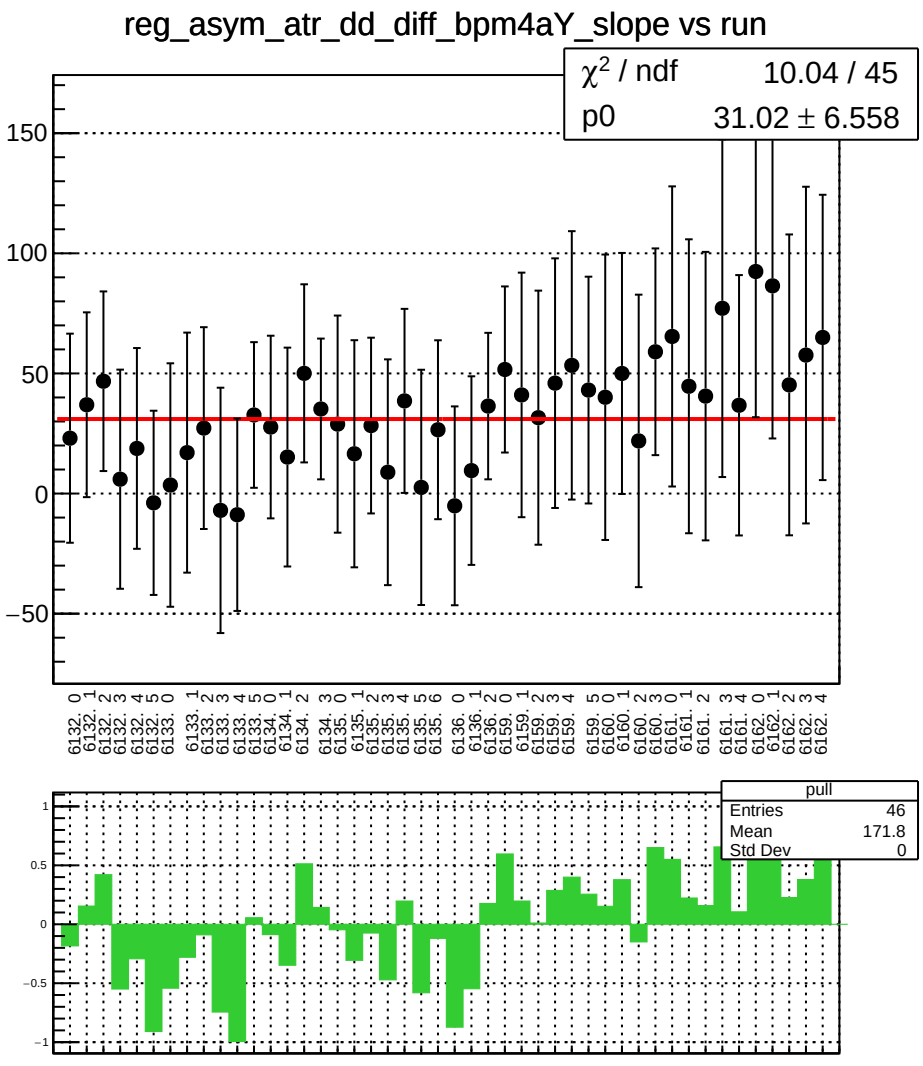

pull1D
Entries 46
Mean 0.02434
Std Dev 0.3186

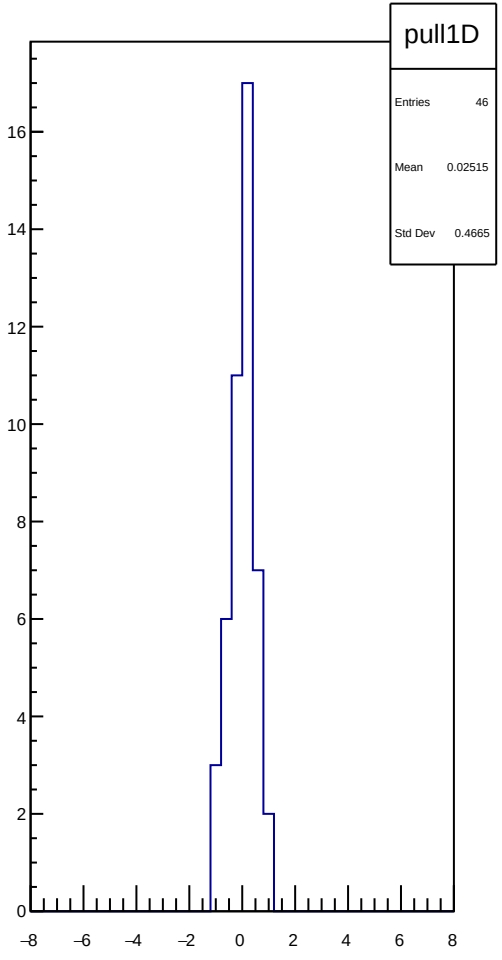

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 9.18 / 45
p0 −140.7 ± 0.5594
pull
Entries 46
Mean 110.8
Std Dev 0

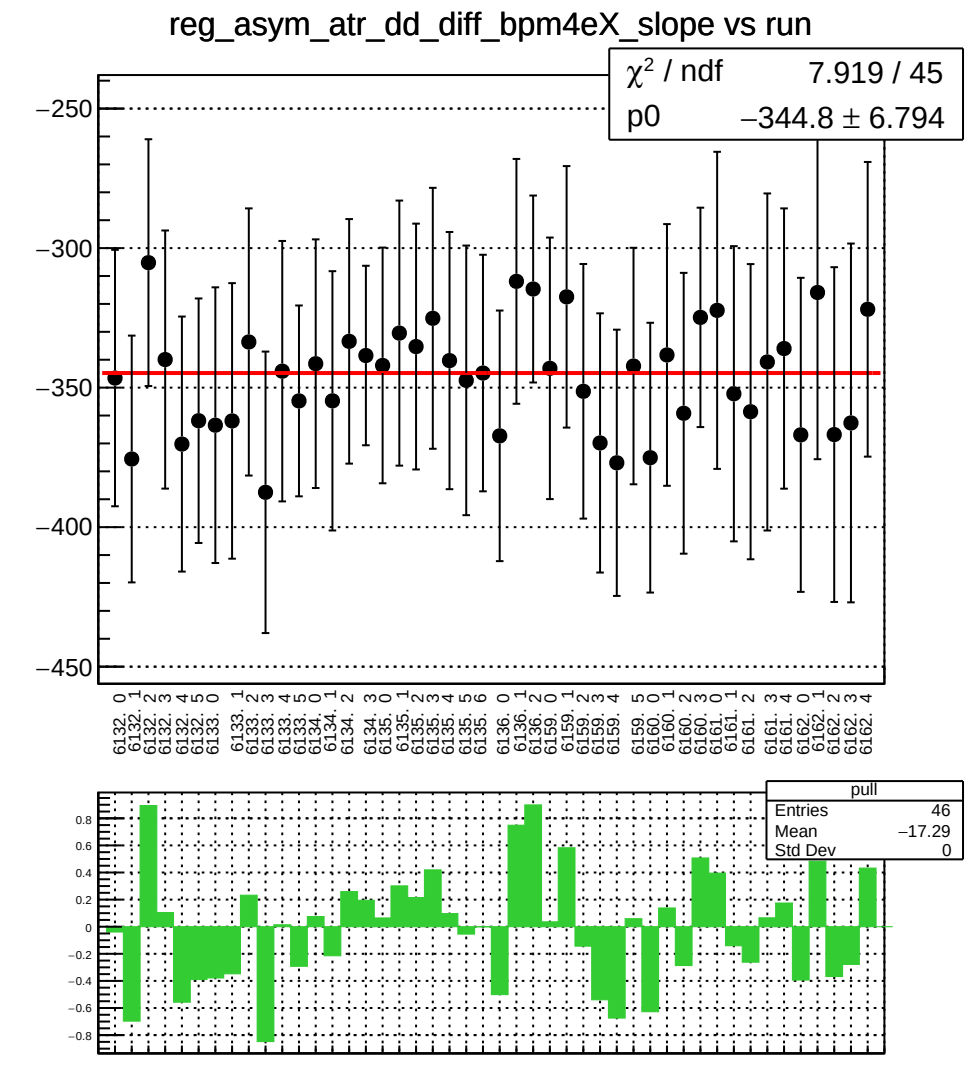

pull1D
Entries 46
Mean −0.00922
Std Dev 0.4466

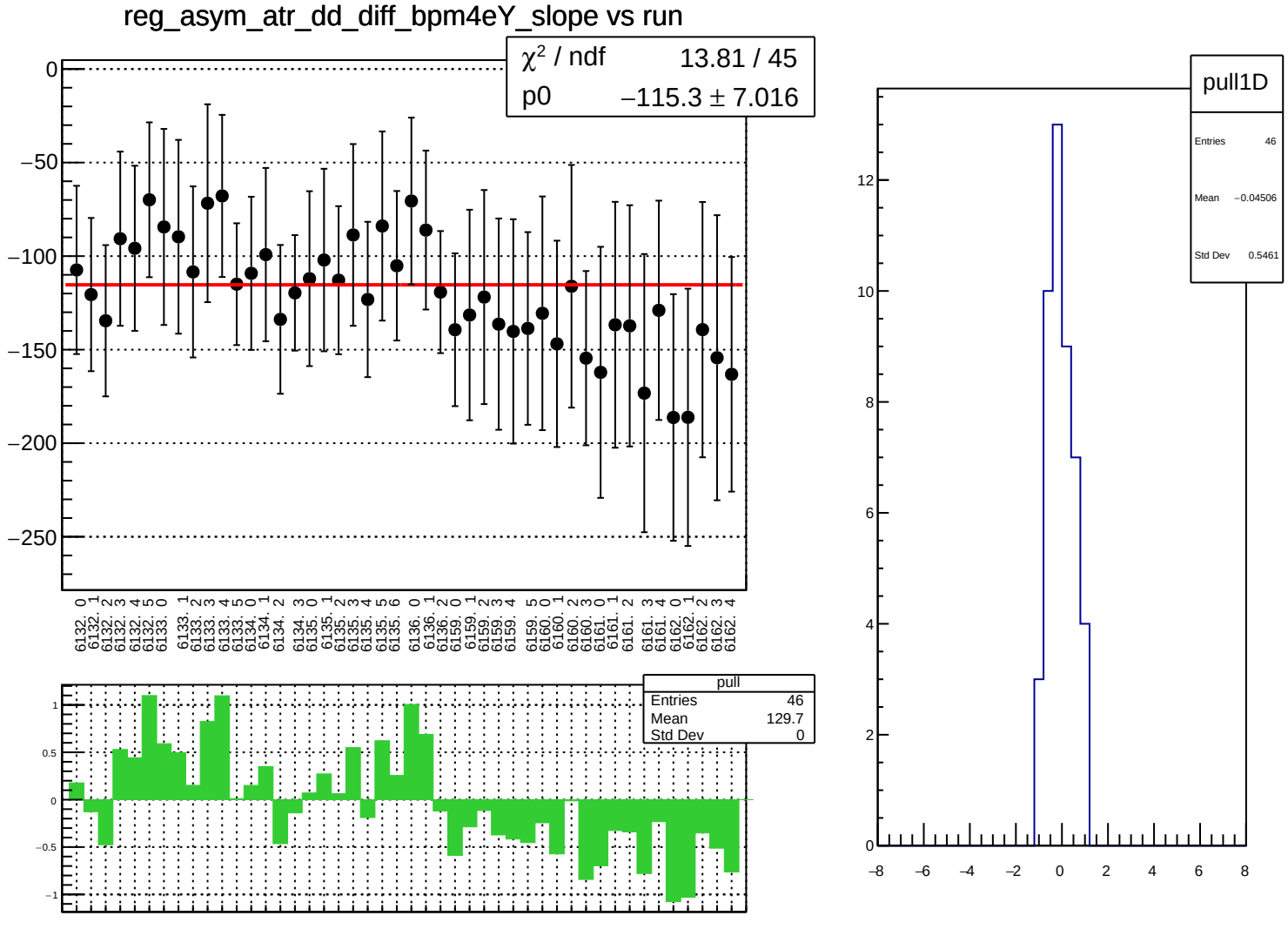

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 8.475 / 45
p0 198.1 ± 5.543
pull
Entries 46
Mean 21.12
Std Dev 27.29

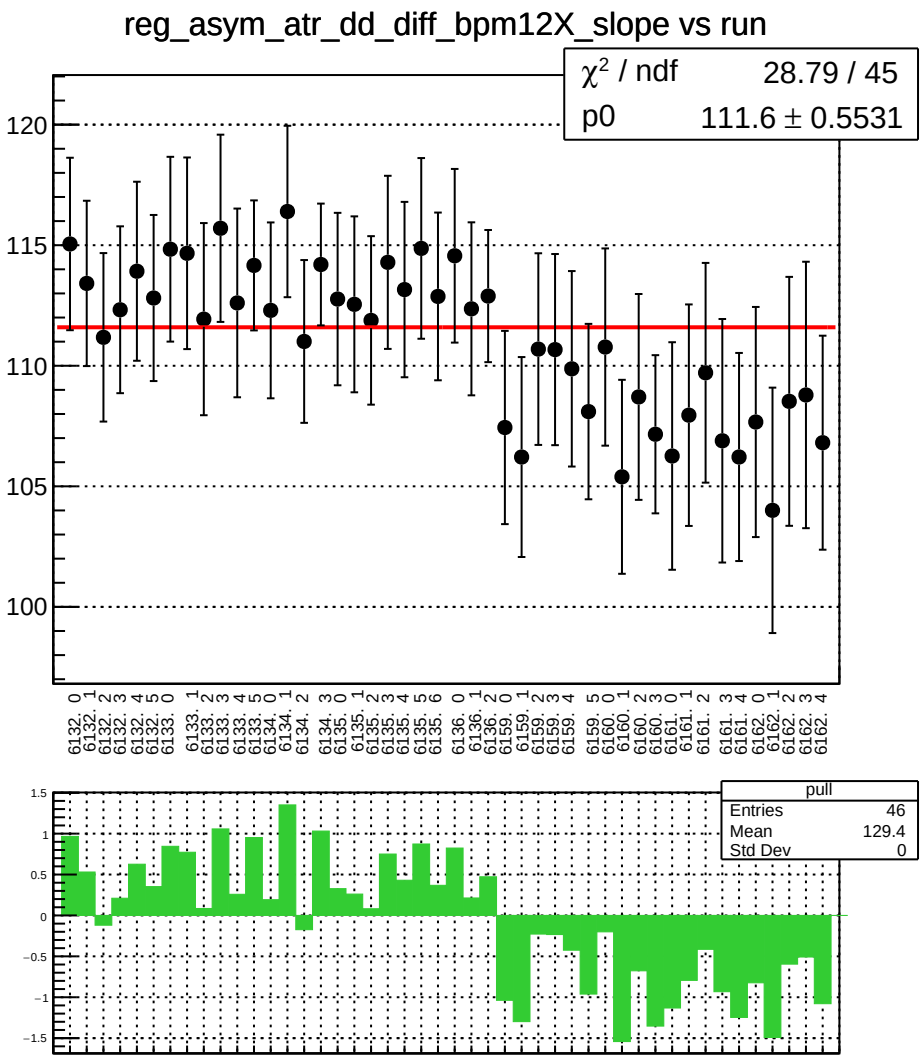

pull1D
Entries 46
Mean 0.01329
Std Dev 0.429

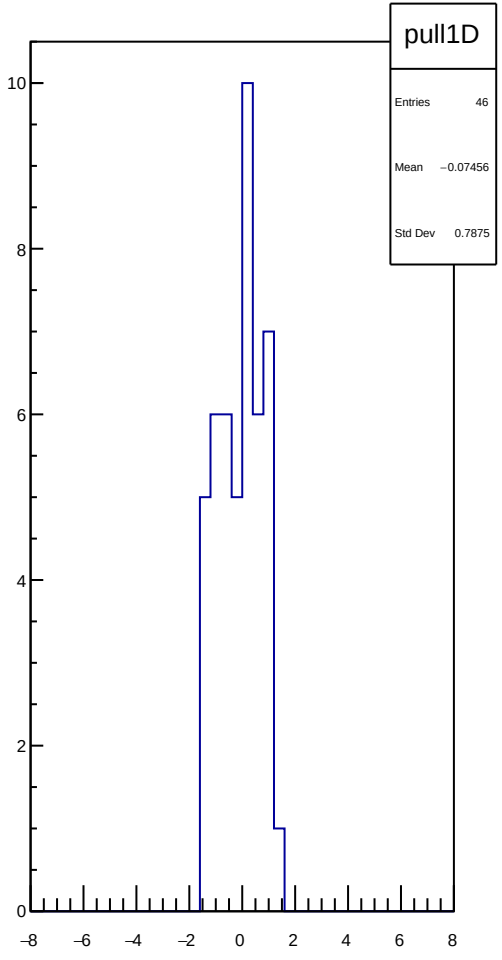

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.04 / 45
p0 31.02 ± 6.558
150
100
50
0
−50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 171.8
Std Dev 0
1
0.5
0
−0.5
−1

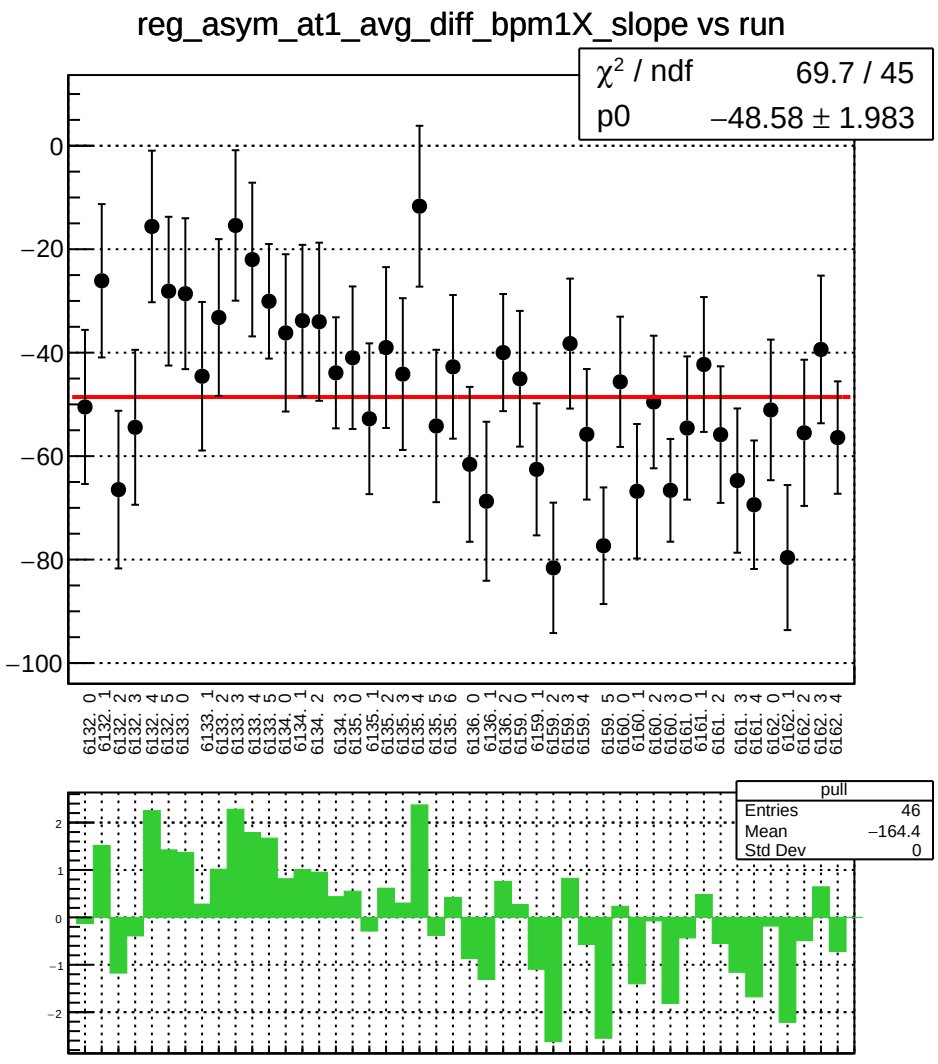

pull1D
Entries 46
Mean 0.02515
Std Dev 0.4665
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

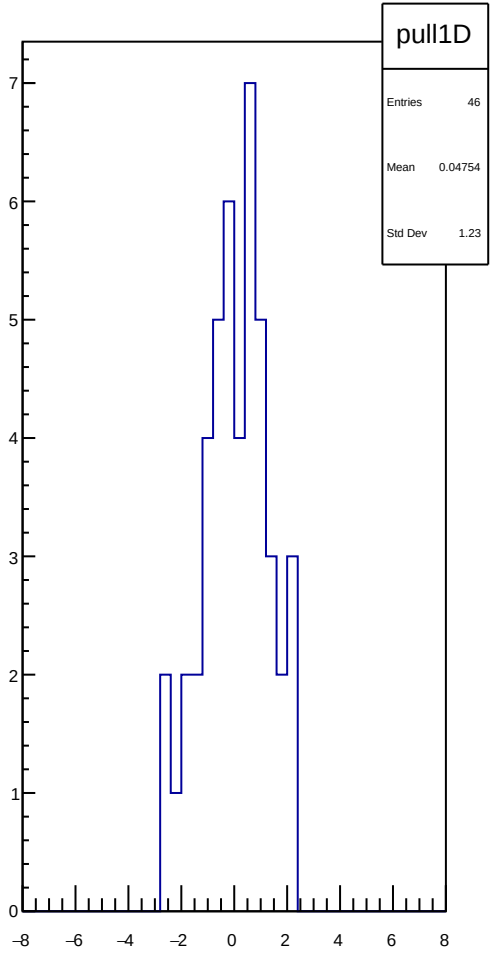

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.919 / 45
p0 −344.8 ± 6.794
−250
−300
−350
−400
−450
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −17.29
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean −0.01387
Std Dev 0.4147
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

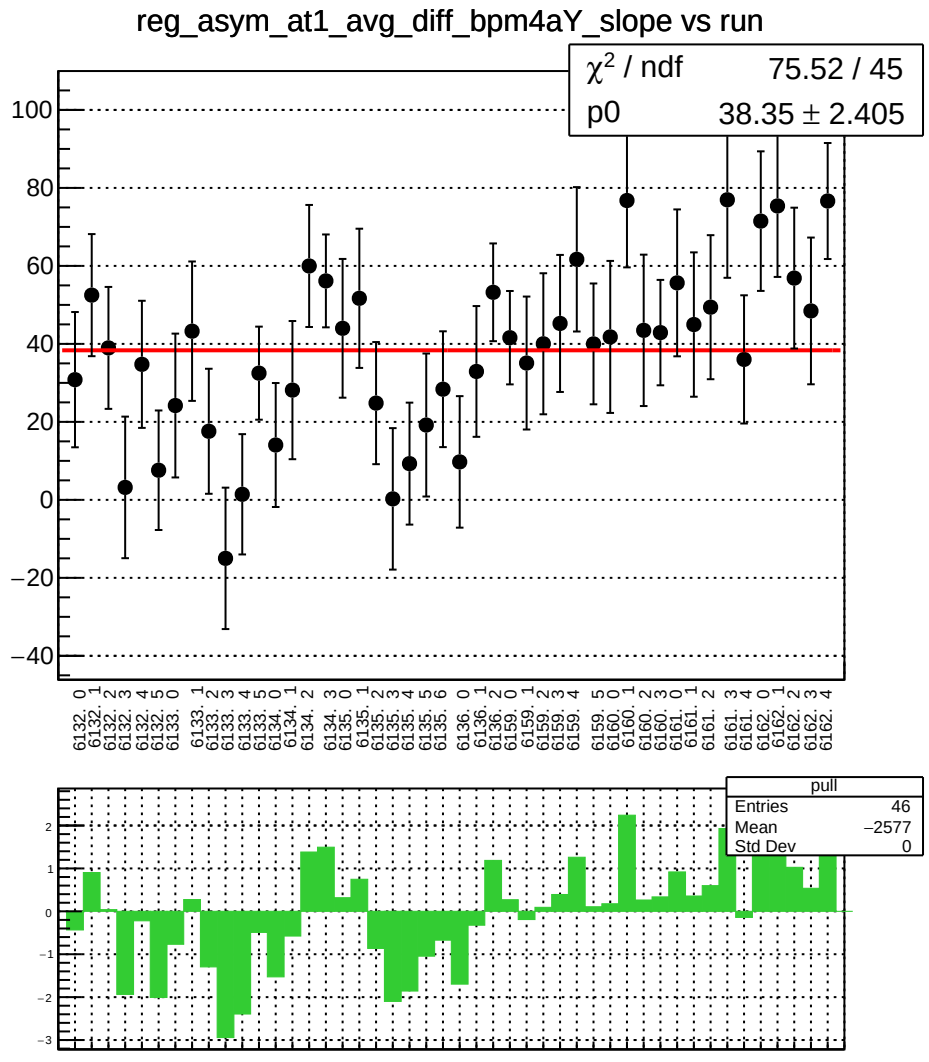

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.81 / 45
p0 −115.3 ± 7.016
pull
Entries 46
Mean 129.7
Std Dev 0
pull1D
Entries 46
Mean −0.04506
Std Dev 0.5461

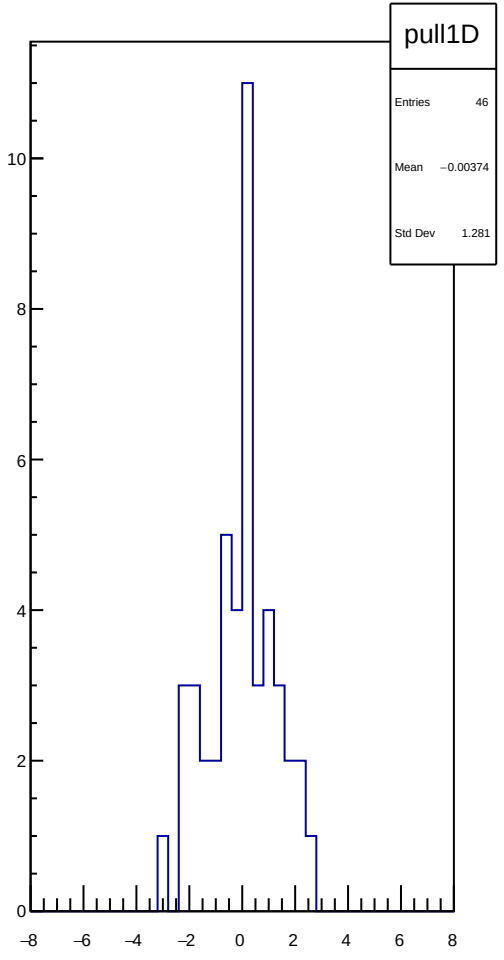

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 28.79 / 45
p0 111.6 ± 0.5531
120
115
110
105
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 129.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

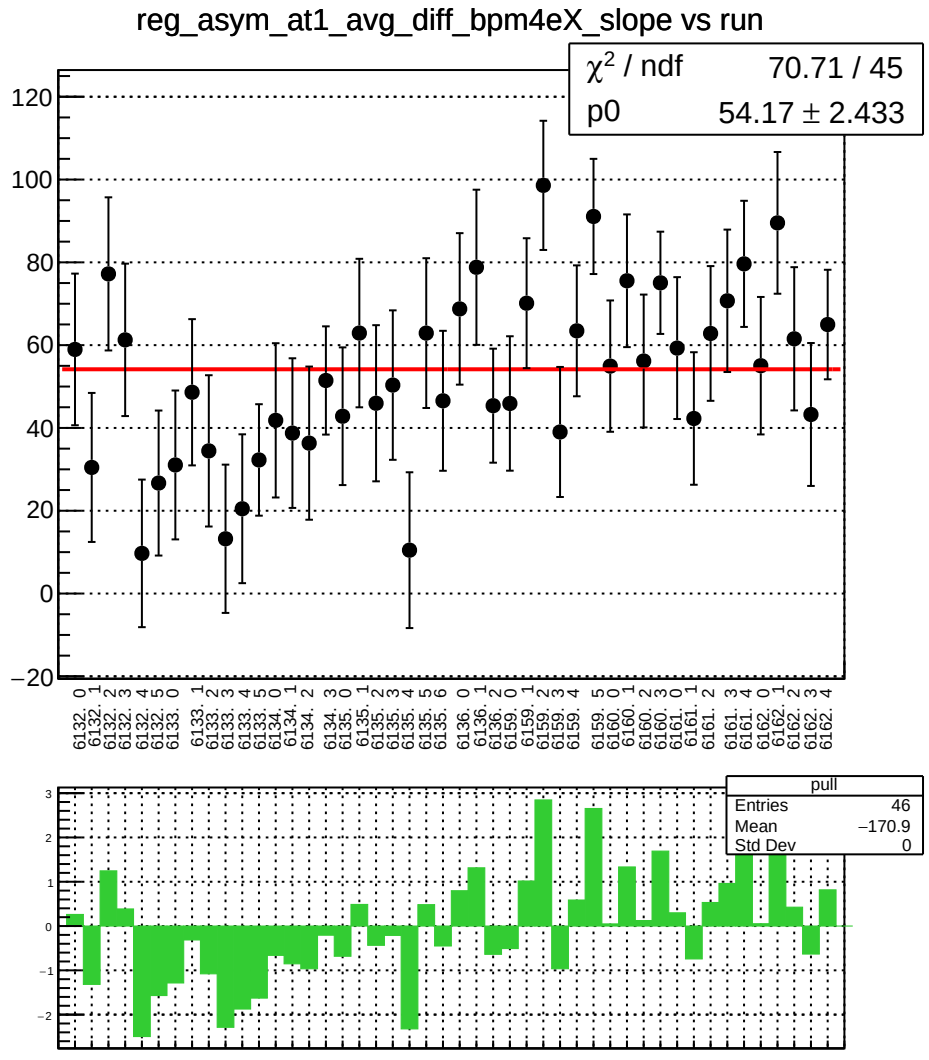

pull1D
Entries 46
Mean −0.07456
Std Dev 0.7875
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

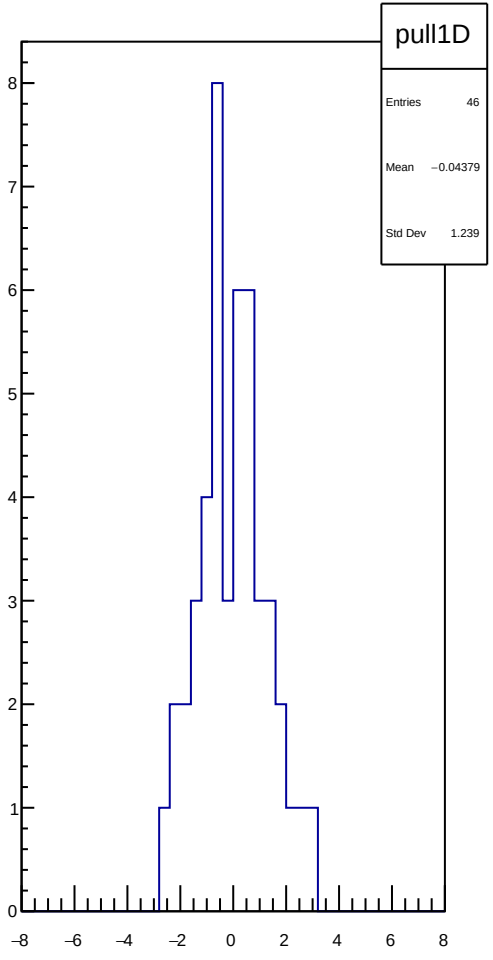

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 69.7 / 45
p0 −48.58 ± 1.983
pull
Entries 46
Mean −164.4
Std Dev 0

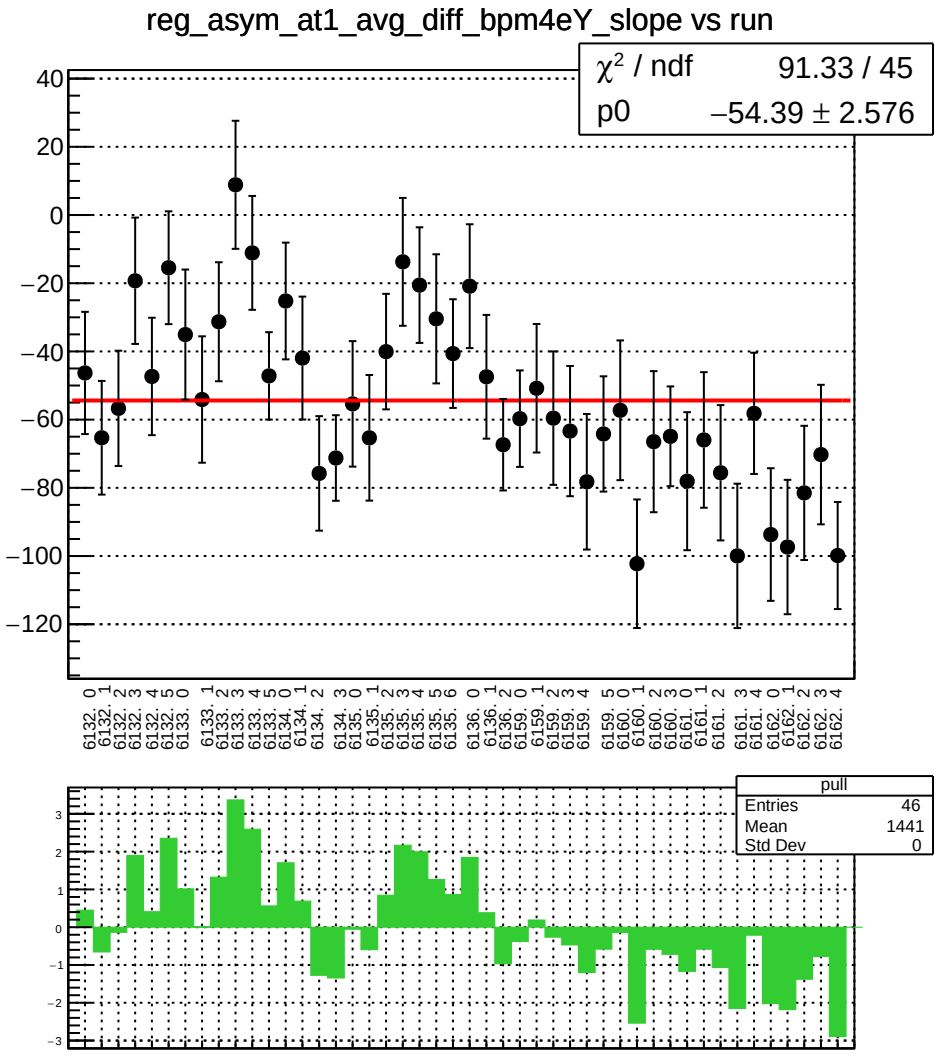

pull1D
Entries 46
Mean 0.04754
Std Dev 1.23

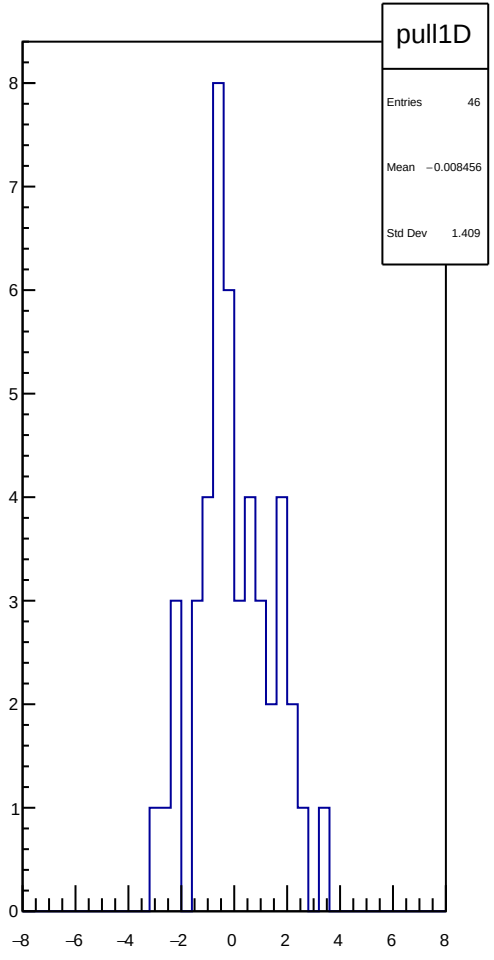

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 75.52 / 45
p0 38.35 ± 2.405
pull
Entries 46
Mean −2577
Std Dev 0

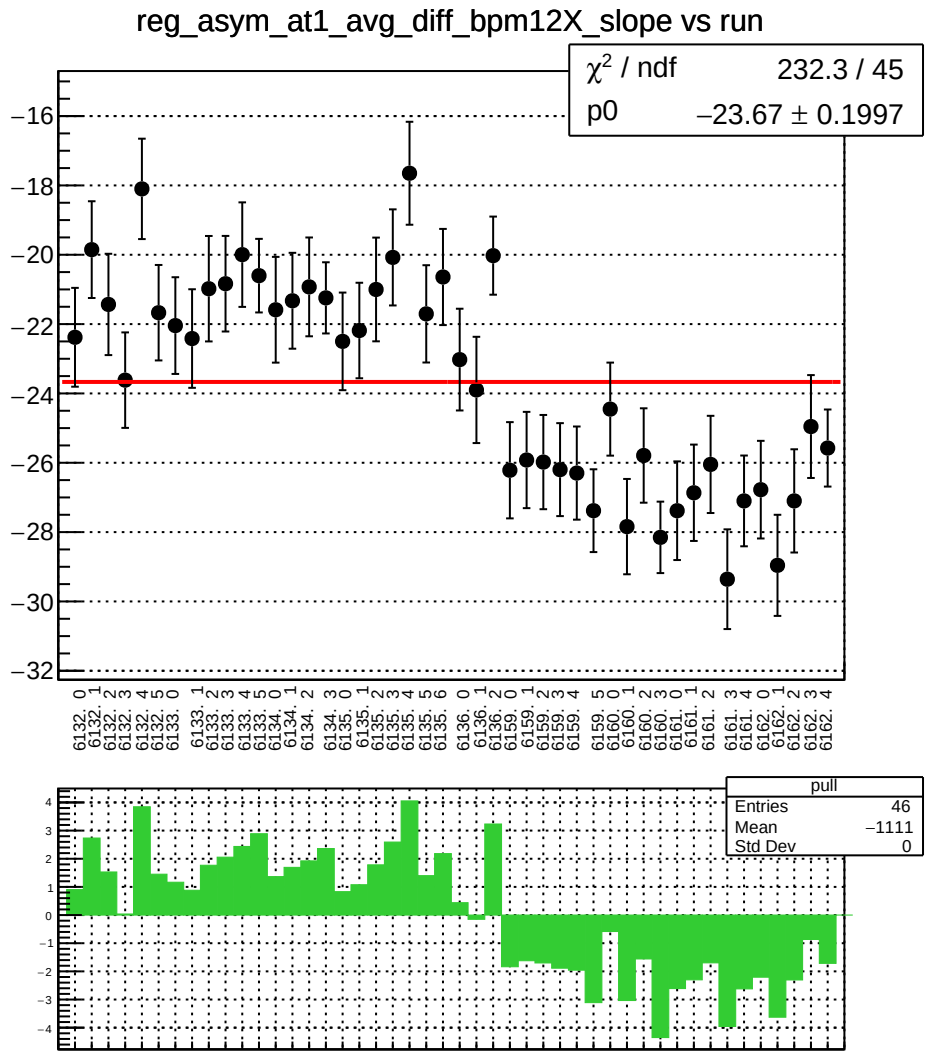

pull1D
Entries 46
Mean −0.00374
Std Dev 1.281

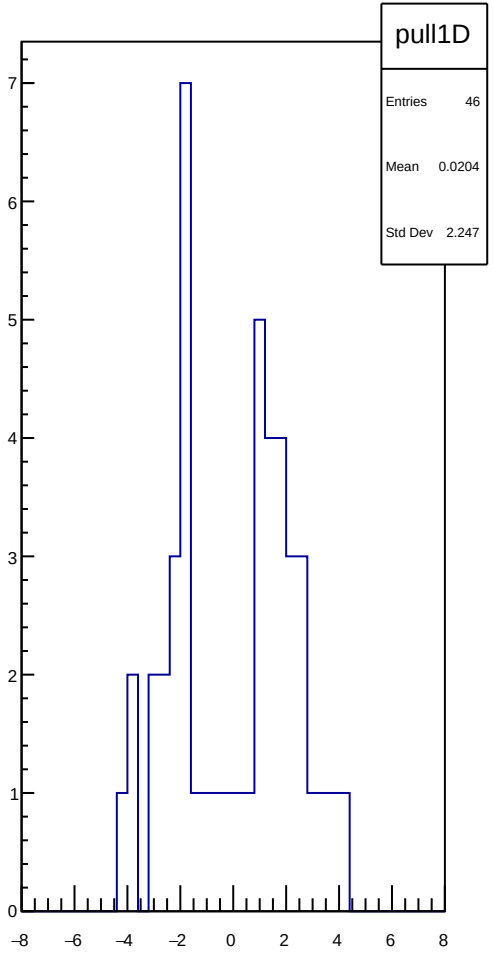

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 70.71 / 45
p0 54.17 ± 2.433
pull
Entries 46
Mean −170.9
Std Dev 0

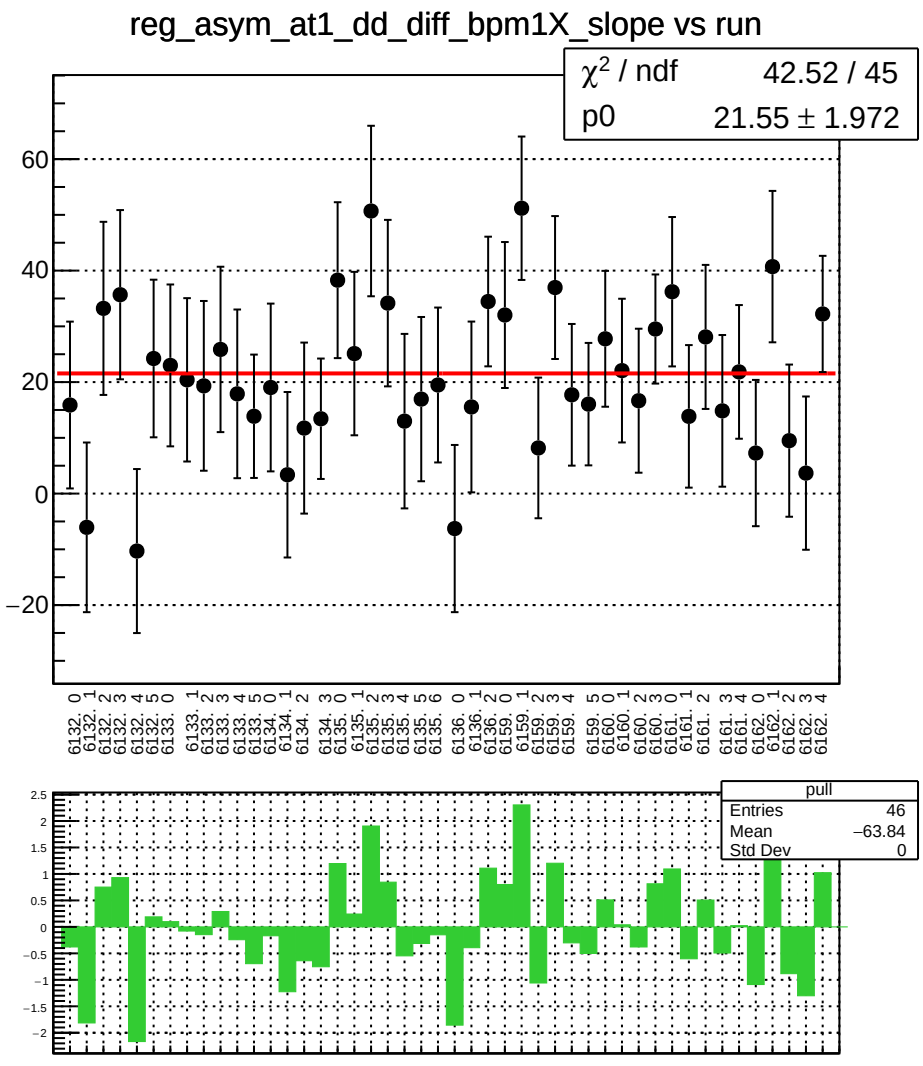

pull1D
Entries 46
Mean −0.04379
Std Dev 1.239

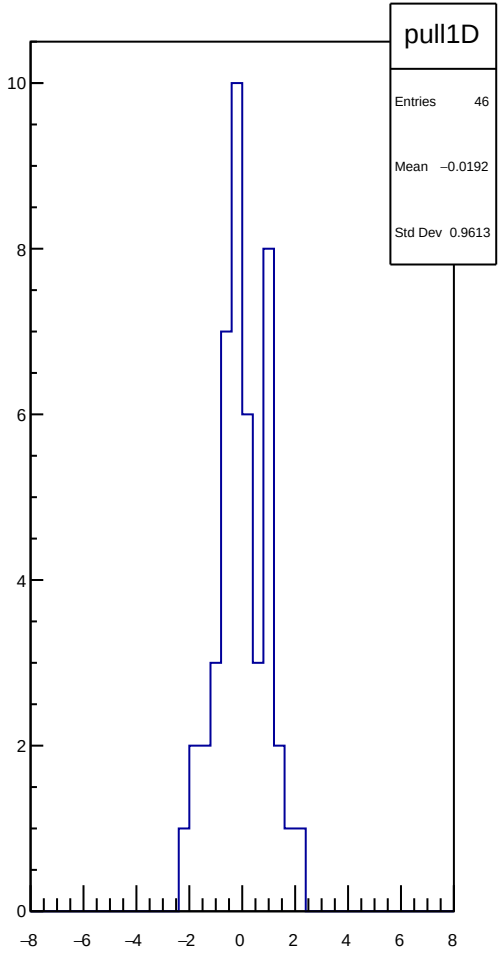

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 91.33 / 45
p0 −54.39 ± 2.576
pull
Entries 46
Mean 1441
Std Dev 0

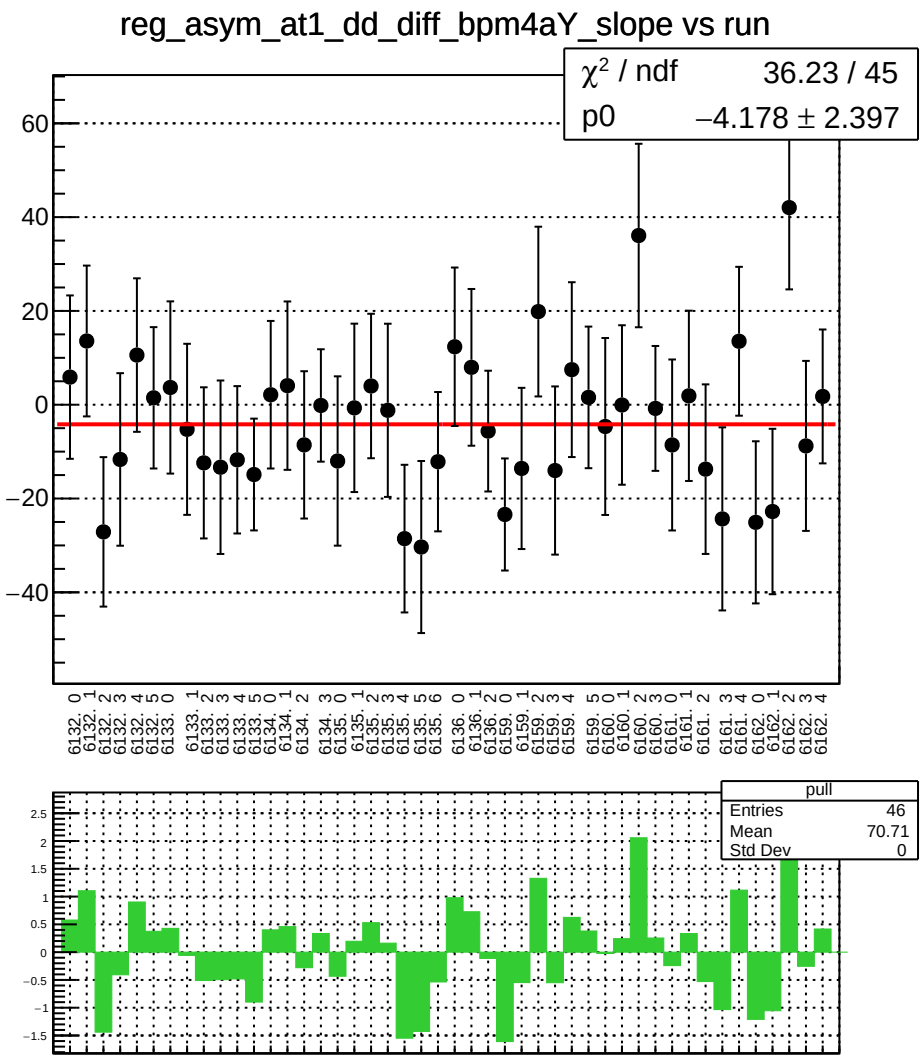

pull1D
Entries 46
Mean −0.008456
Std Dev 1.409

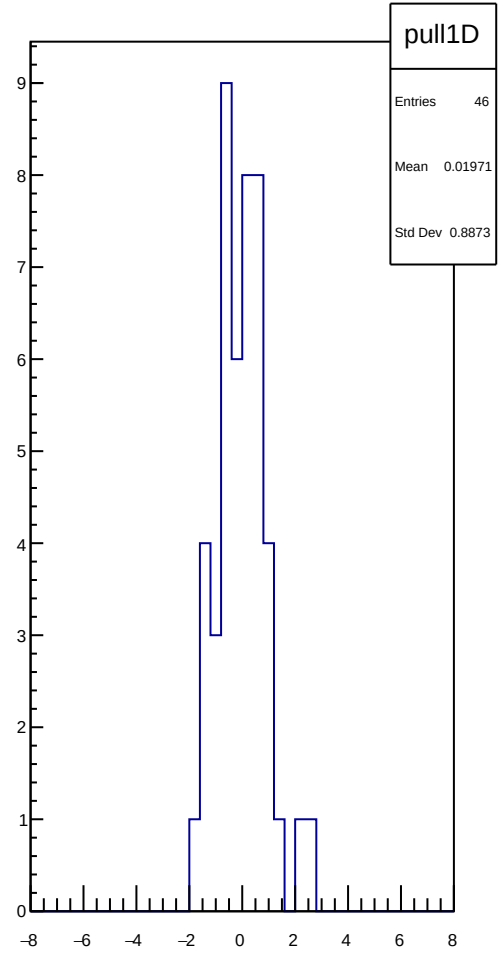

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 232.3 / 45
p0 −23.67 ± 0.1997
pull
Entries 46
Mean −1111
Std Dev 0

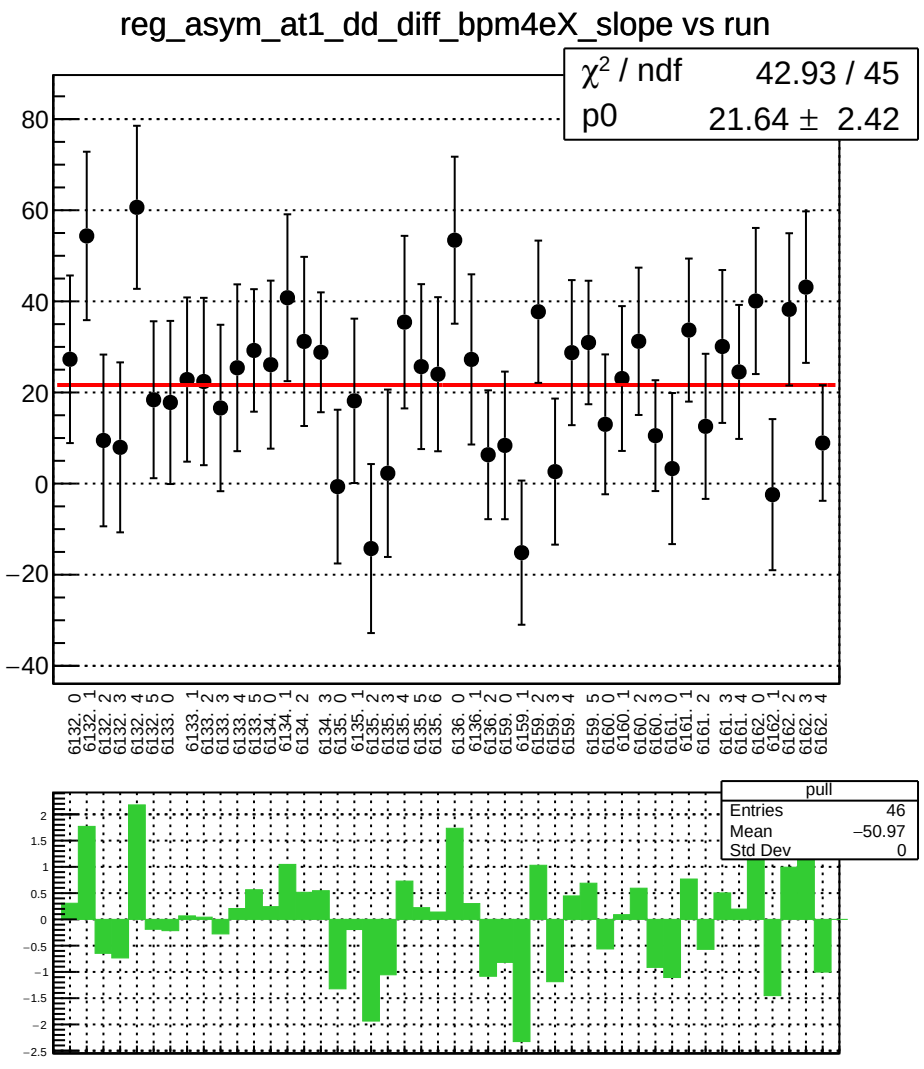

pull1D
Entries 46
Mean 0.0204
Std Dev 2.247

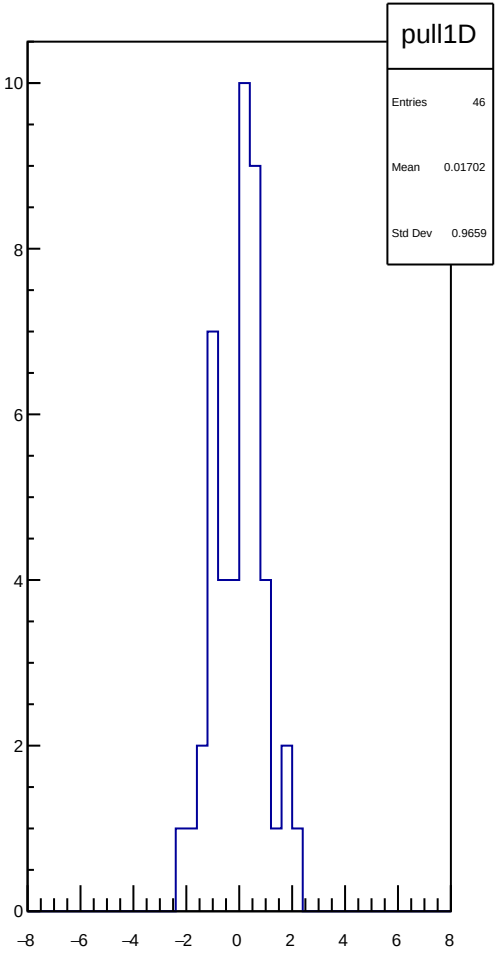

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 42.52 / 45
p0 21.55 ± 1.972
60
40
20
0
−20
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −63.84
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

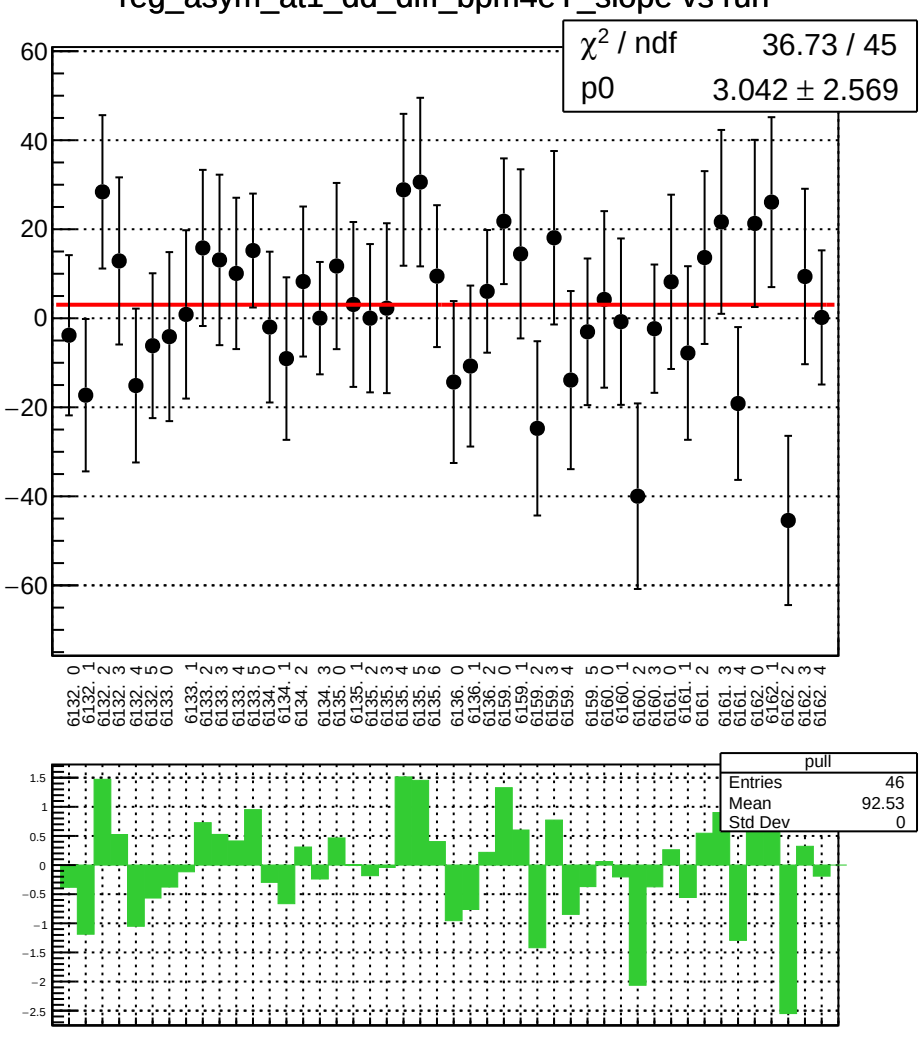

pull1D
Entries 46
Mean −0.0192
Std Dev 0.9613
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

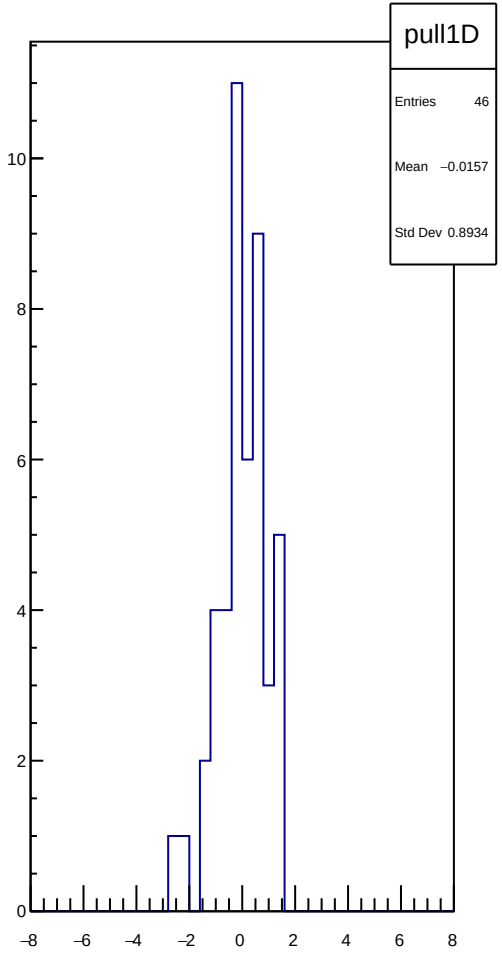

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.23 / 45
p0 −4.178 ± 2.397
pull
Entries 46
Mean 70.71
Std Dev 0

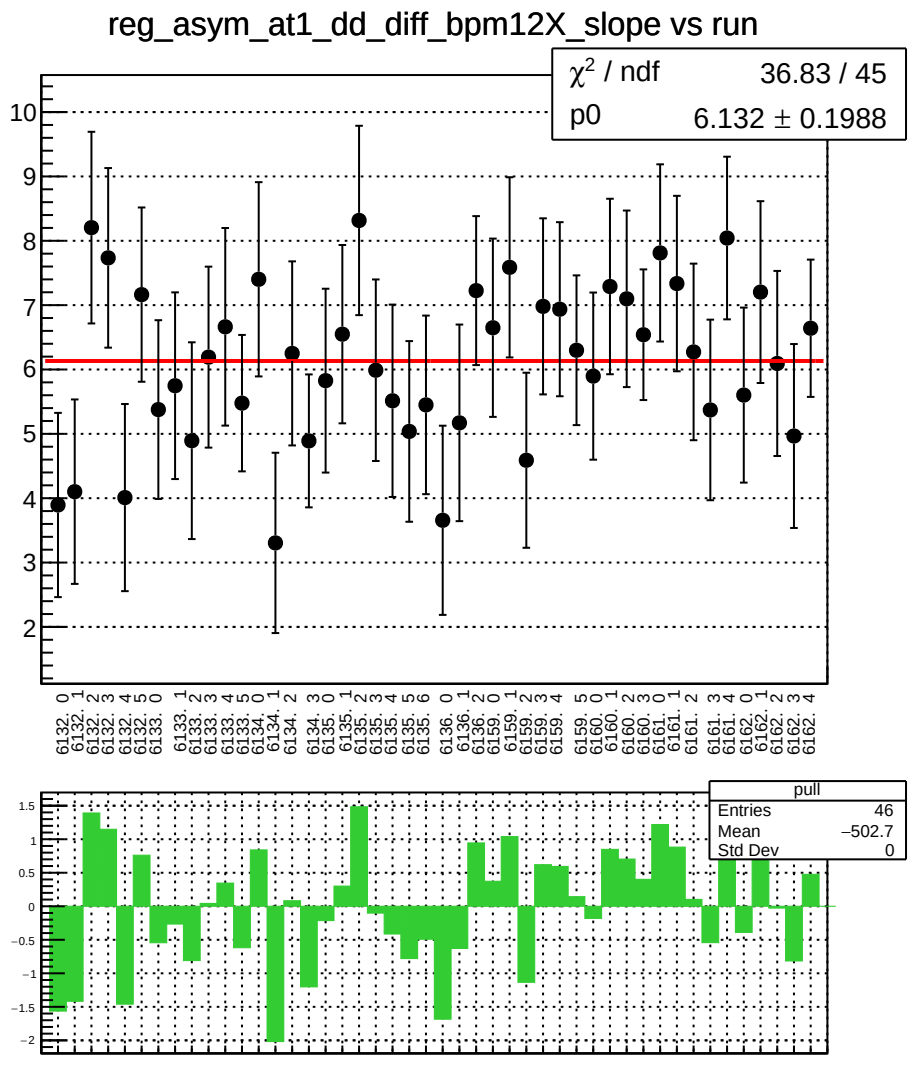

pull1D
Entries 46
Mean 0.01971
Std Dev 0.8873

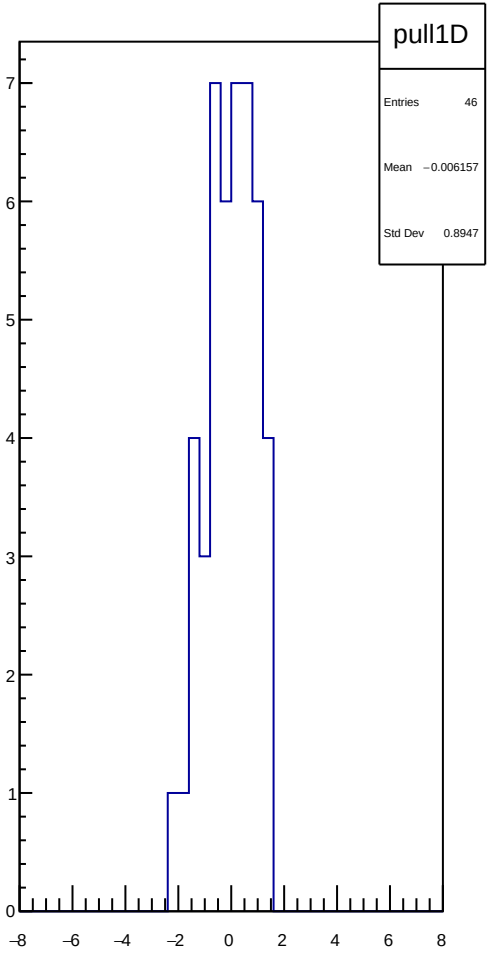

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.93 / 45
p0 21.64 ± 2.42
pull
Entries 46
Mean −50.97
Std Dev 0

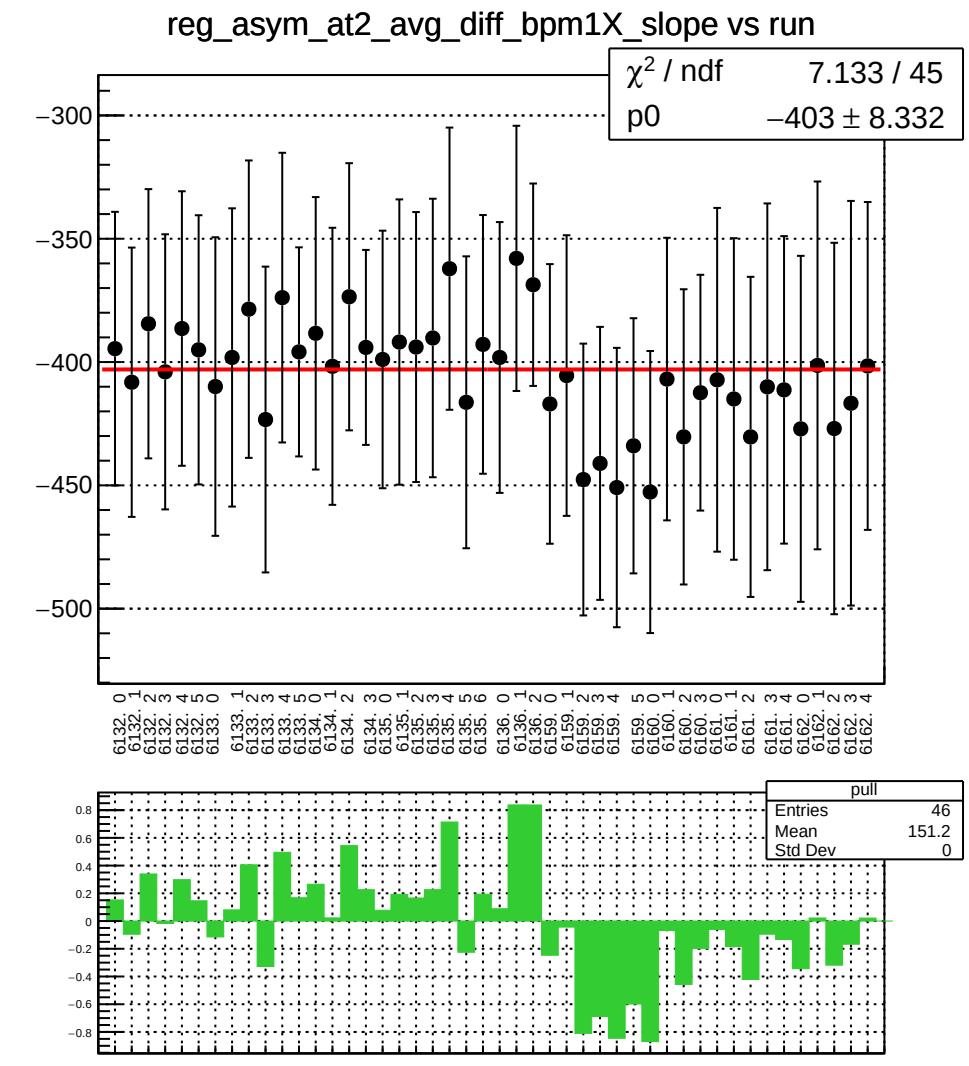

pull1D
Entries 46
Mean 0.01702
Std Dev 0.9659

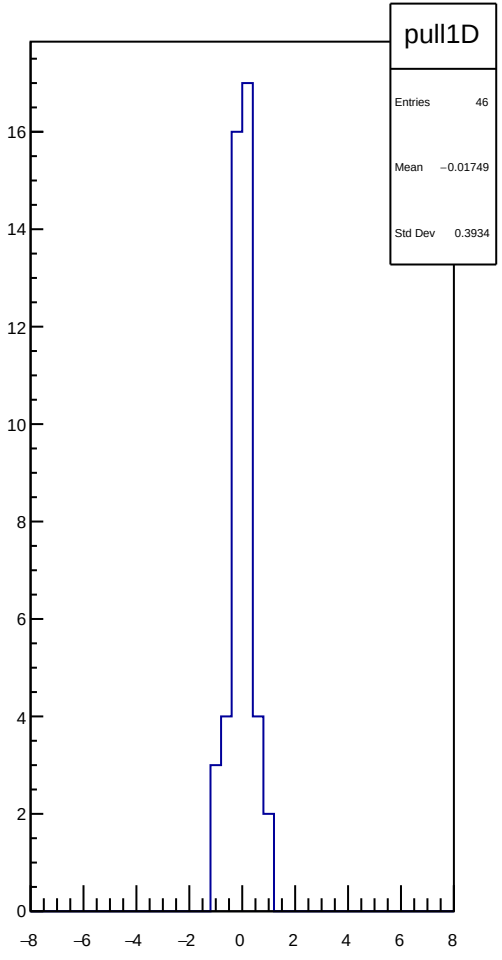

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.73 / 45
p0 3.042 ± 2.569
pull
Entries 46
Mean 92.53
Std Dev 0

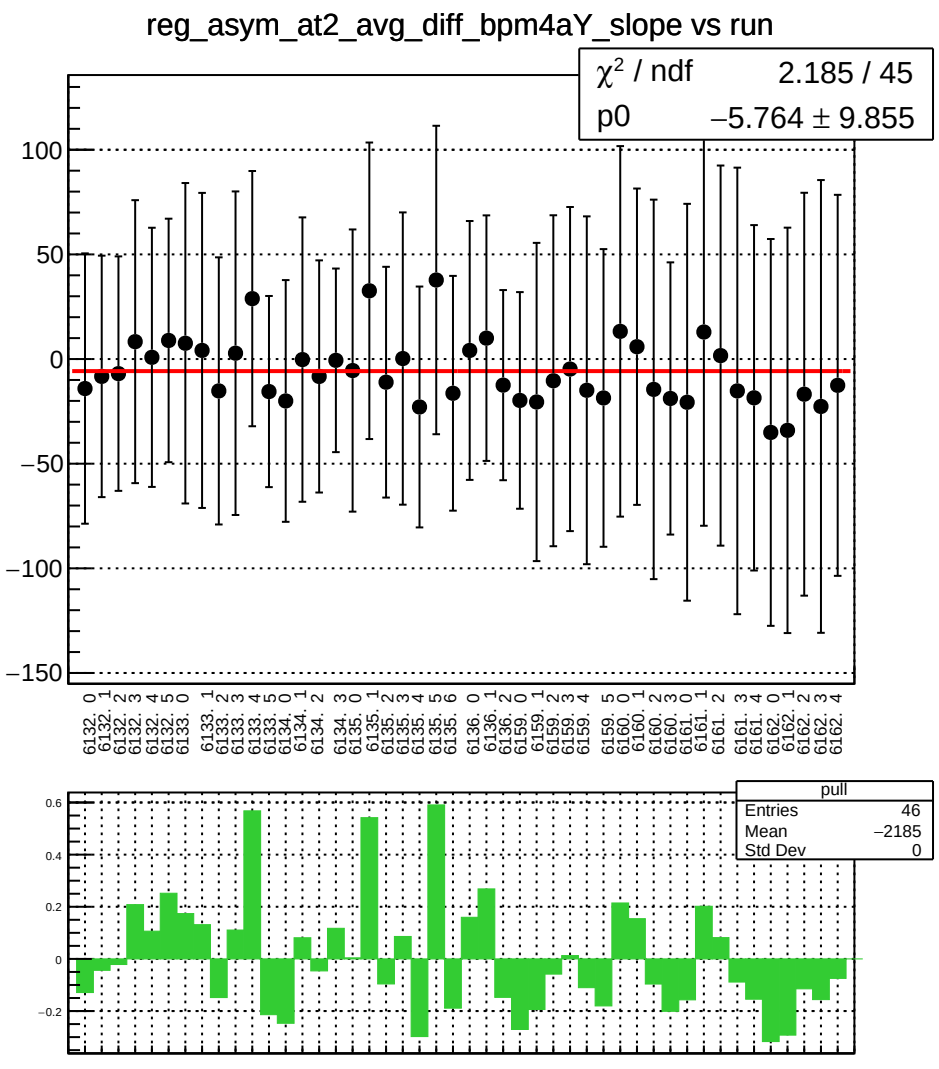

pull1D
Entries 46
Mean −0.0157
Std Dev 0.8934

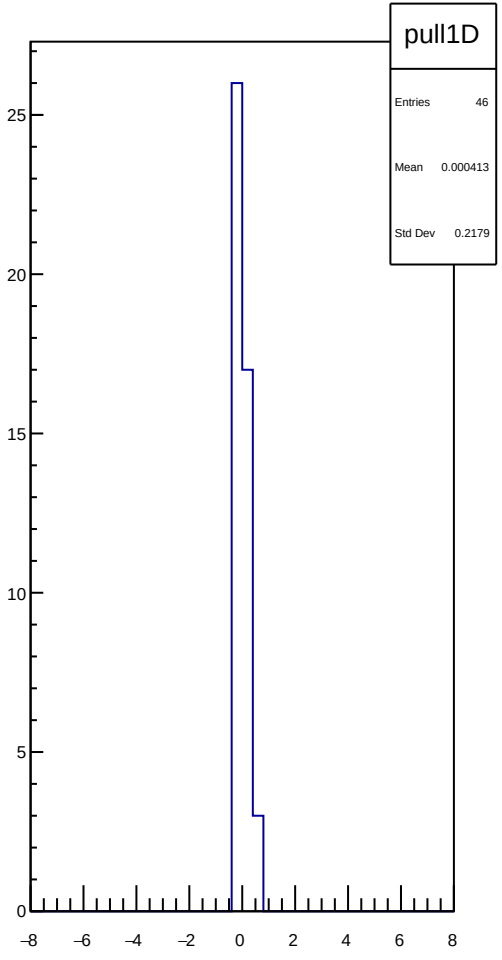

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 36.83 / 45
p0 6.132 ± 0.1988
pull
Entries 46
Mean −502.7
Std Dev 0

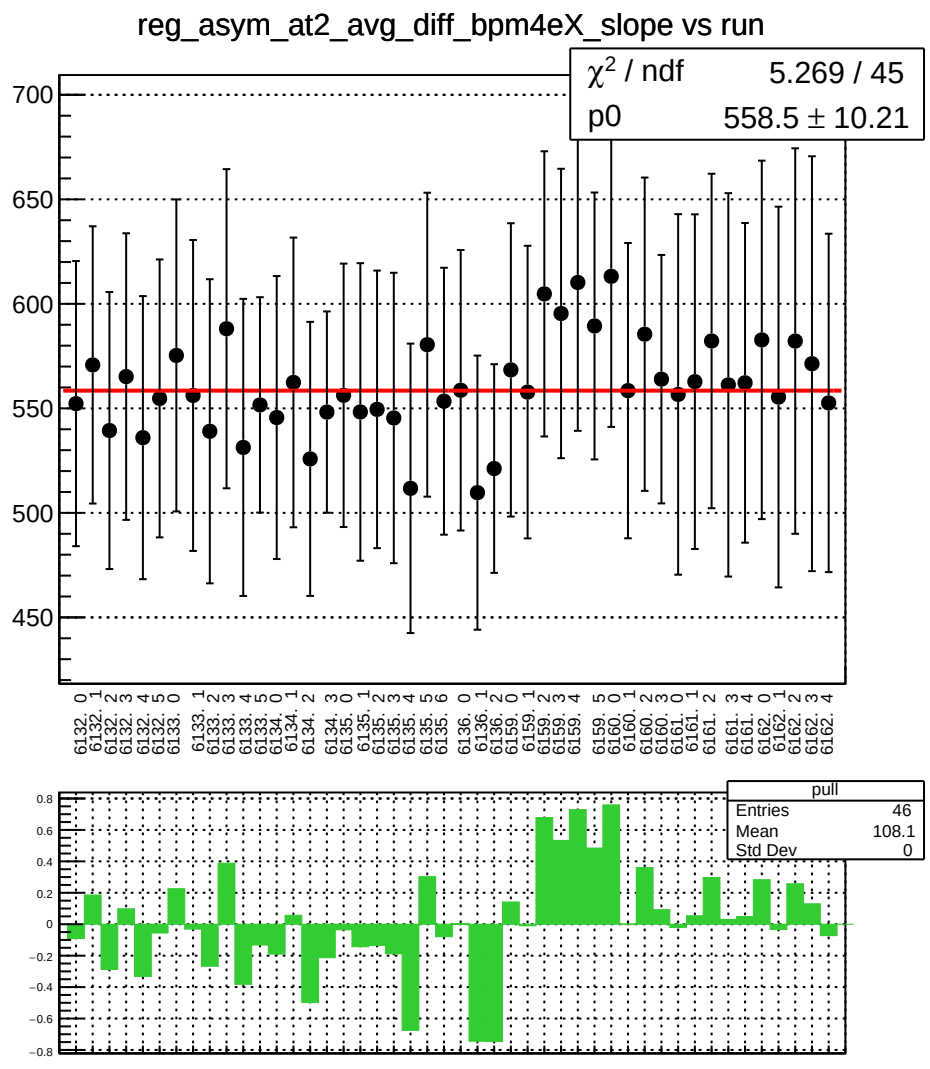

pull1D
Entries 46
Mean −0.006157
Std Dev 0.8947

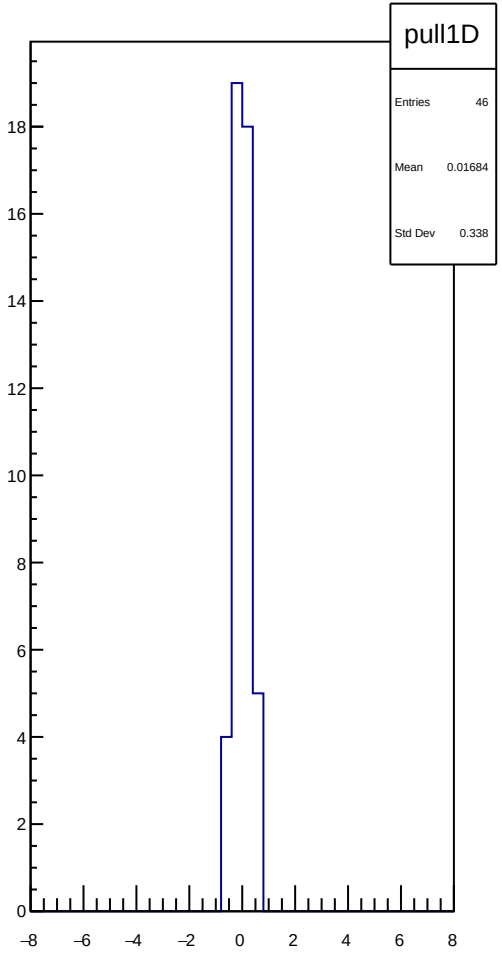

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 7.133 / 45
p0 −403 ± 8.332
−300
−350
−400
−450
−500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 151.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

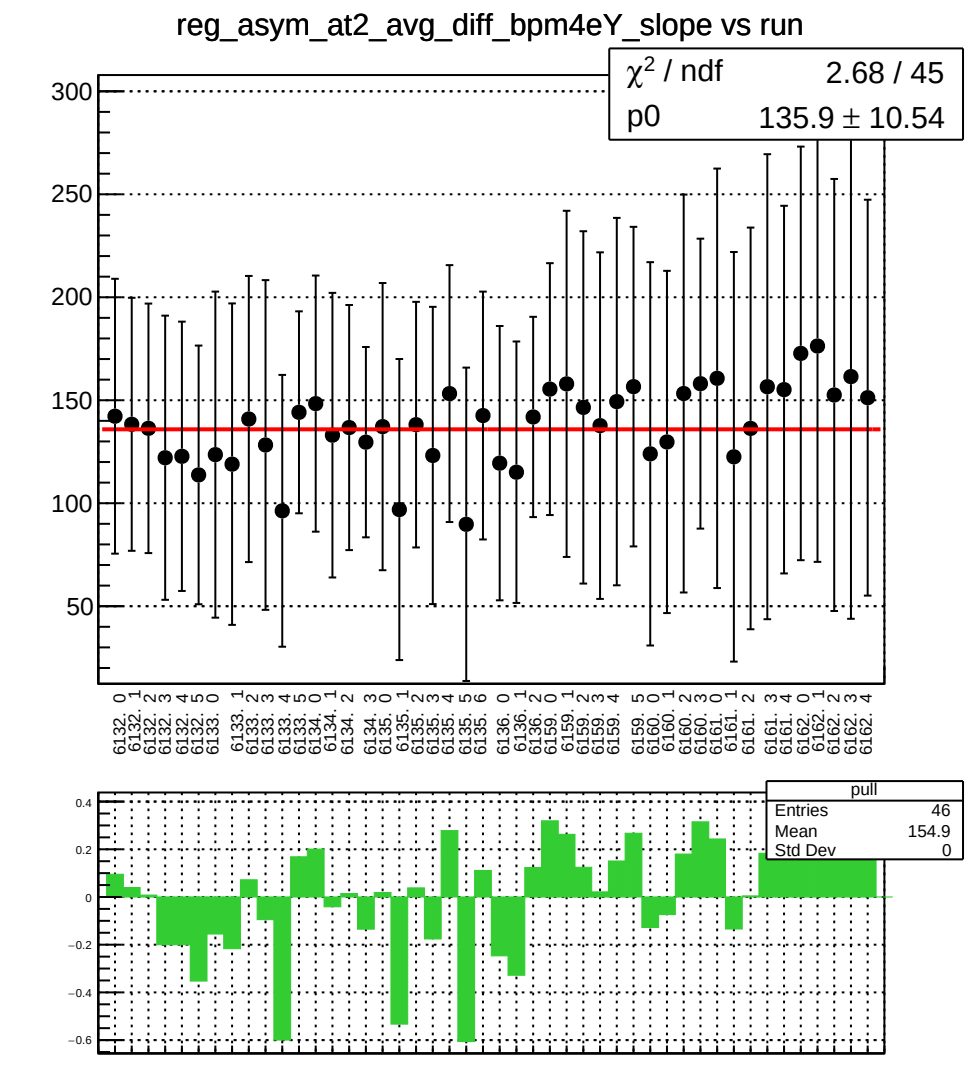

pull1D
Entries 46
Mean −0.01749
Std Dev 0.3934
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

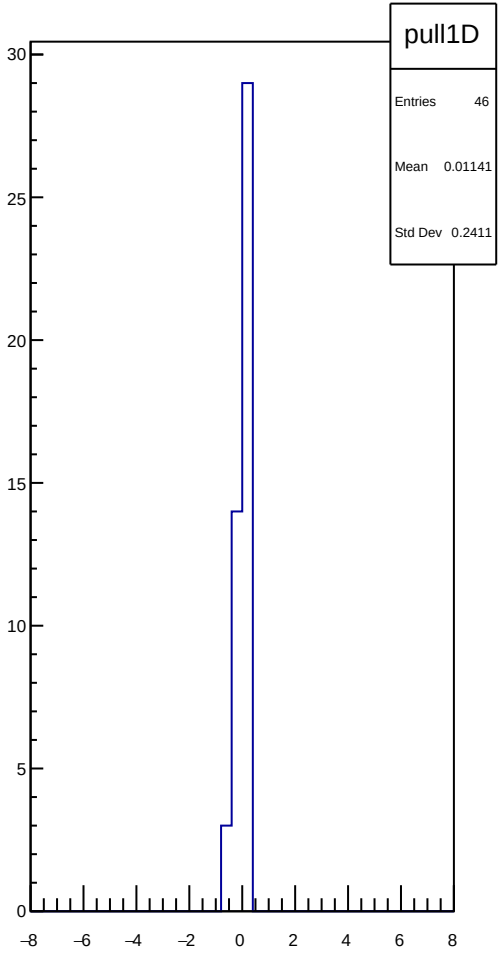

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.185 / 45
p0 −5.764 ± 9.855
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −2185
Std Dev 0
0.6
0.4
0.2
0
−0.2

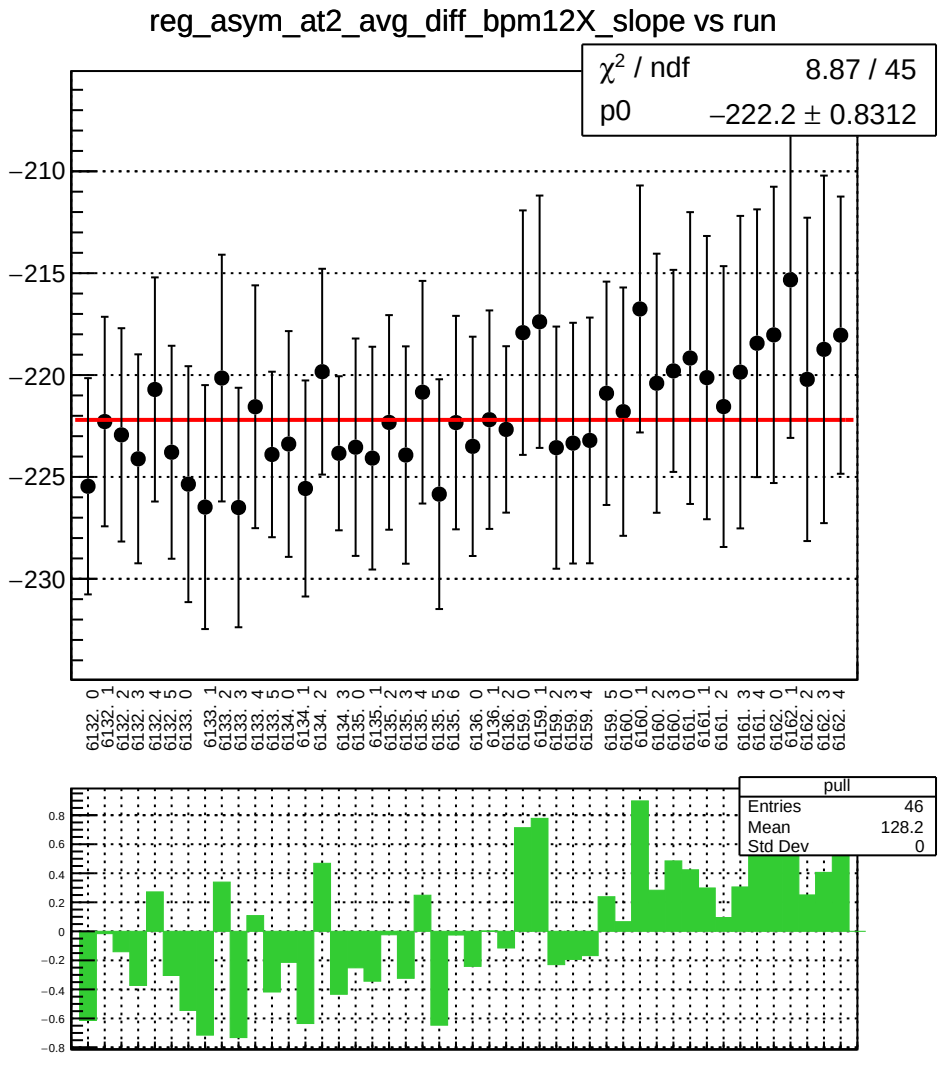

pull1D
Entries 46
Mean 0.000413
Std Dev 0.2179
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

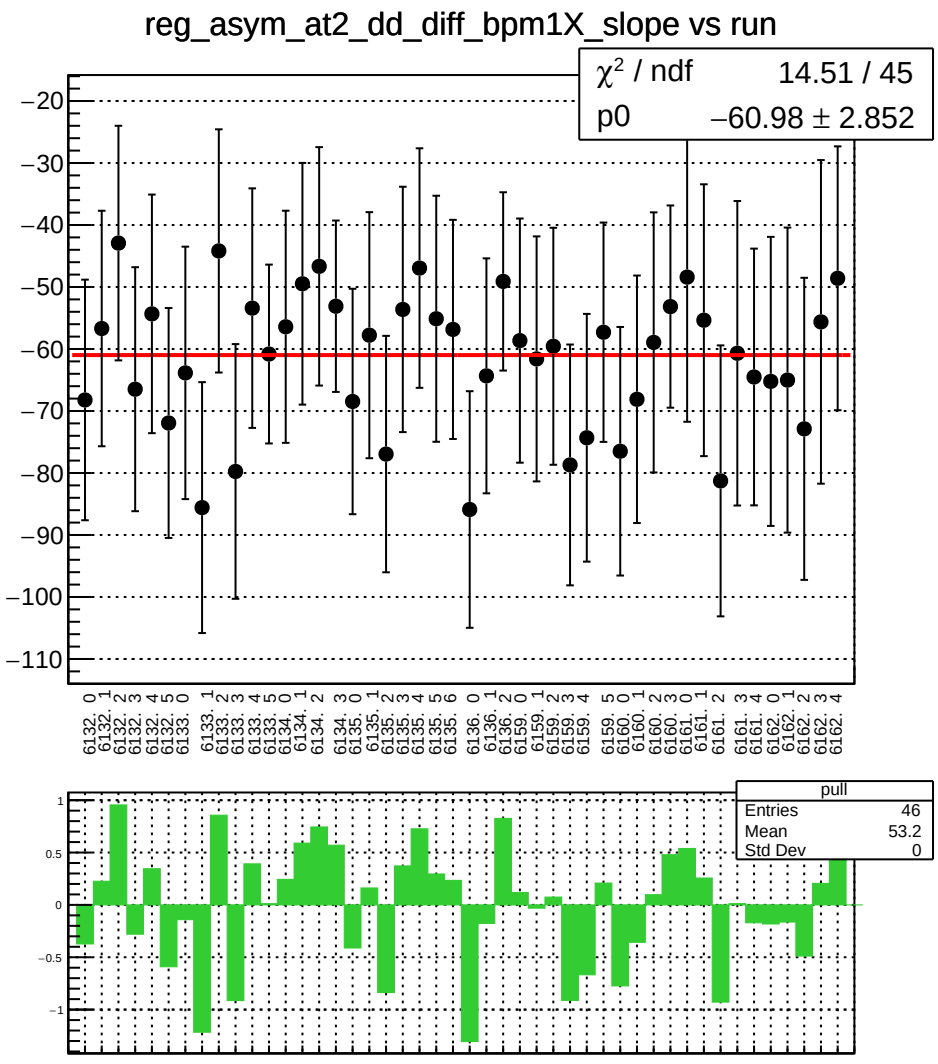

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.269 / 45
p0 558.5 ± 10.21
700
650
600
550
500
450
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 108.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

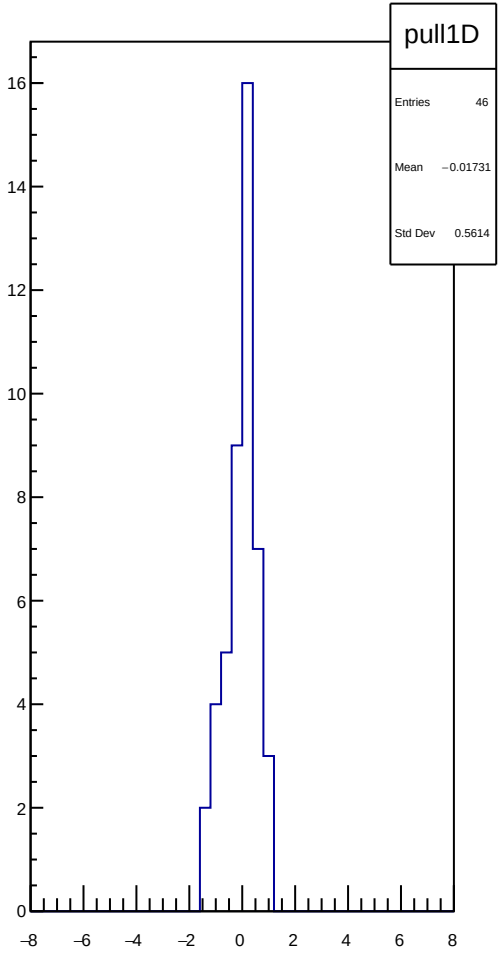

pull1D
Entries 46
Mean 0.01684
Std Dev 0.338
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

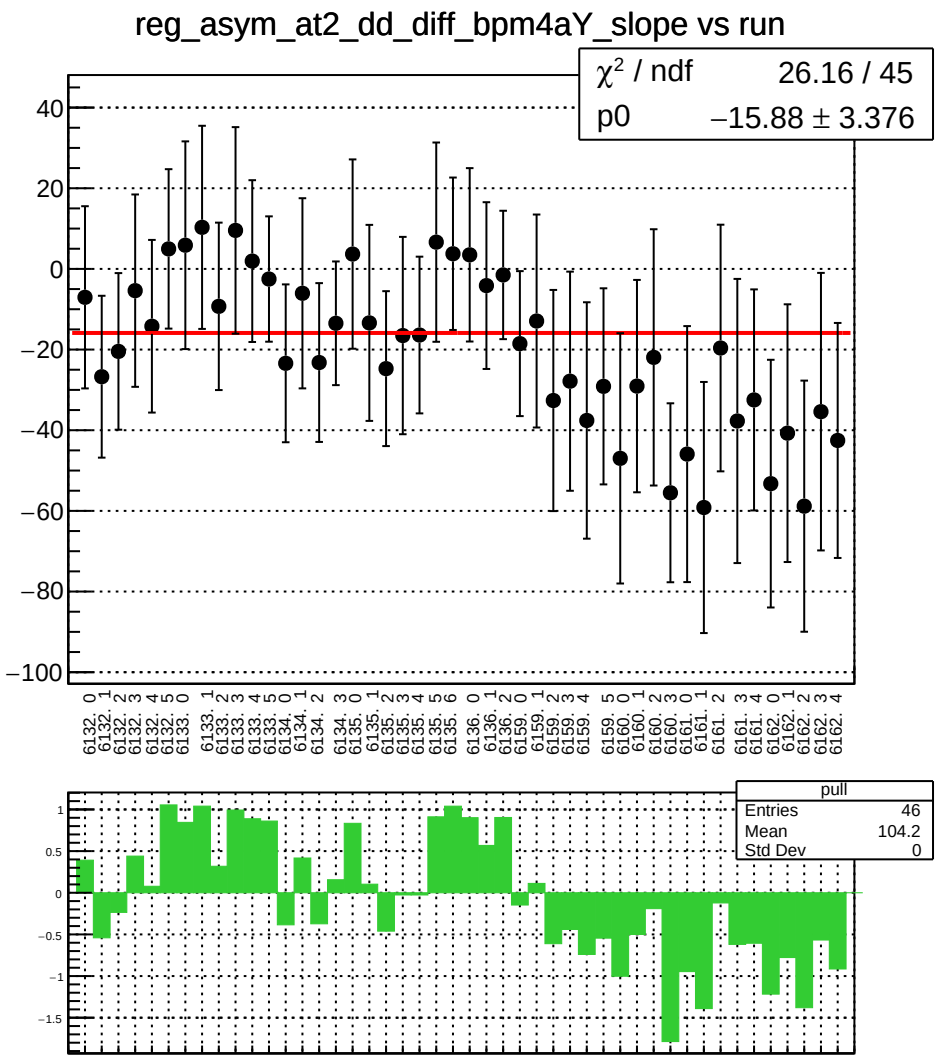

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.68 / 45
p0 135.9 ± 10.54
300
250
200
150
100
50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 154.9
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

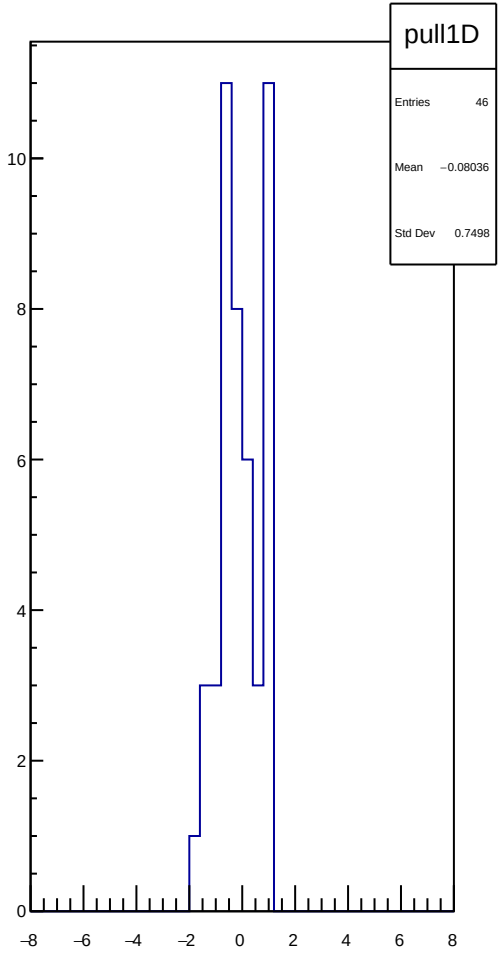

pull1D
Entries 46
Mean 0.01141
Std Dev 0.2411
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

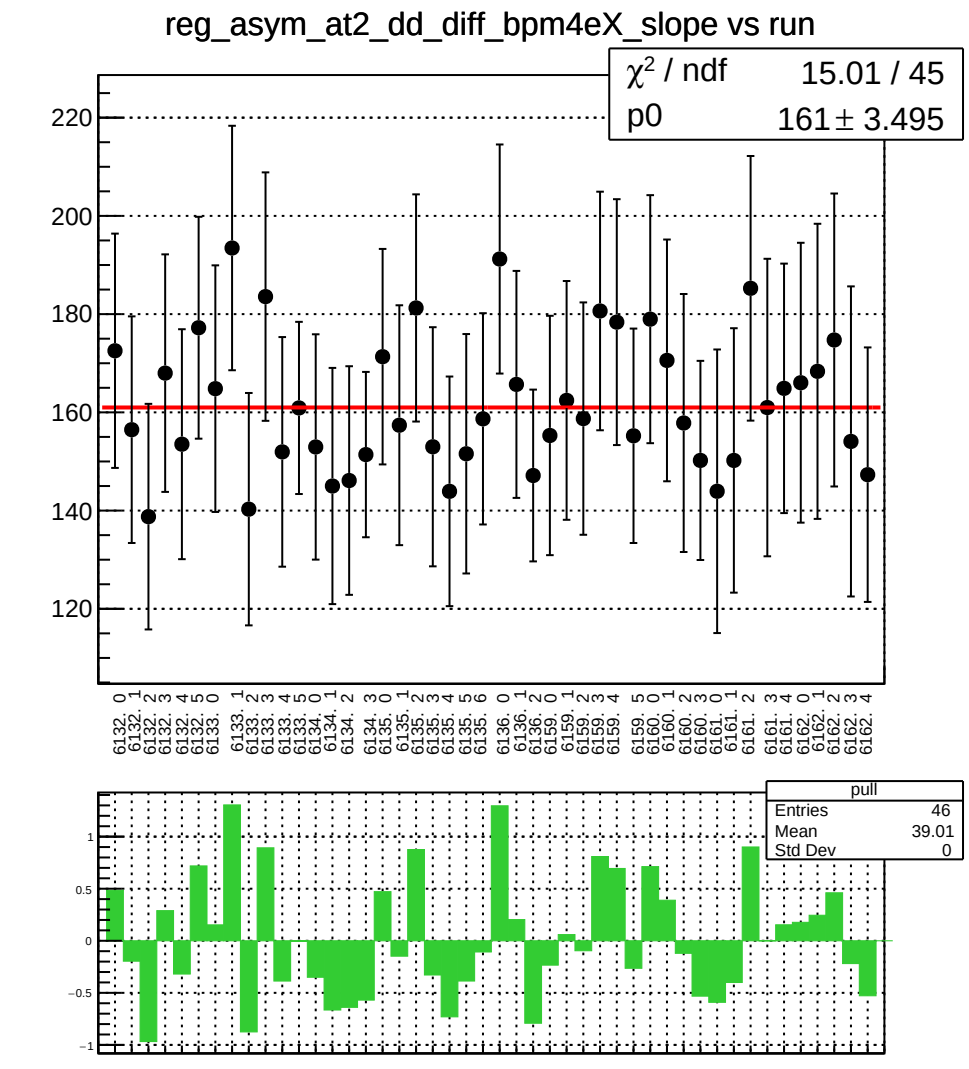

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 8.87 / 45
p0 −222.2 ± 0.8312
−210
−215
−220
−225
−230
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 128.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean 0.03535
Std Dev 0.4377
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

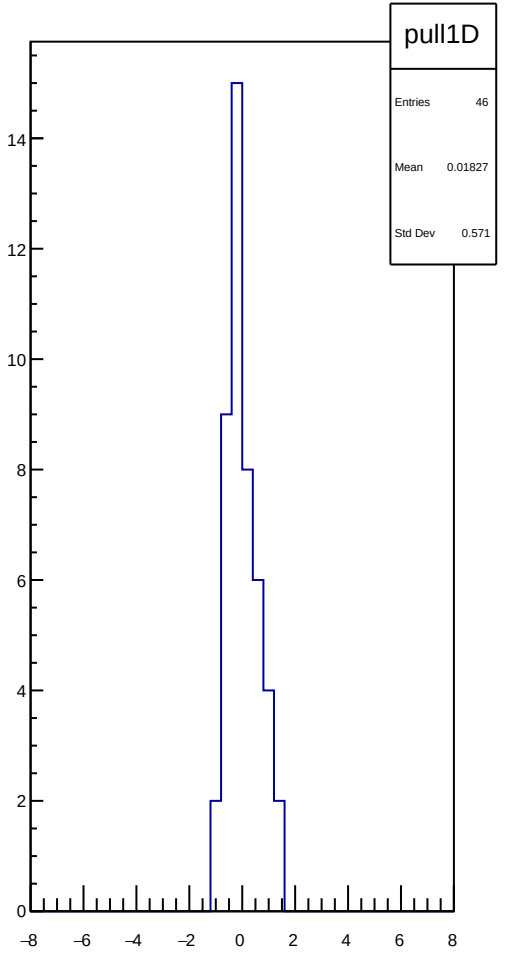

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 14.51 / 45
p0 −60.98 ± 2.852
pull
Entries 46
Mean 53.2
Std Dev 0

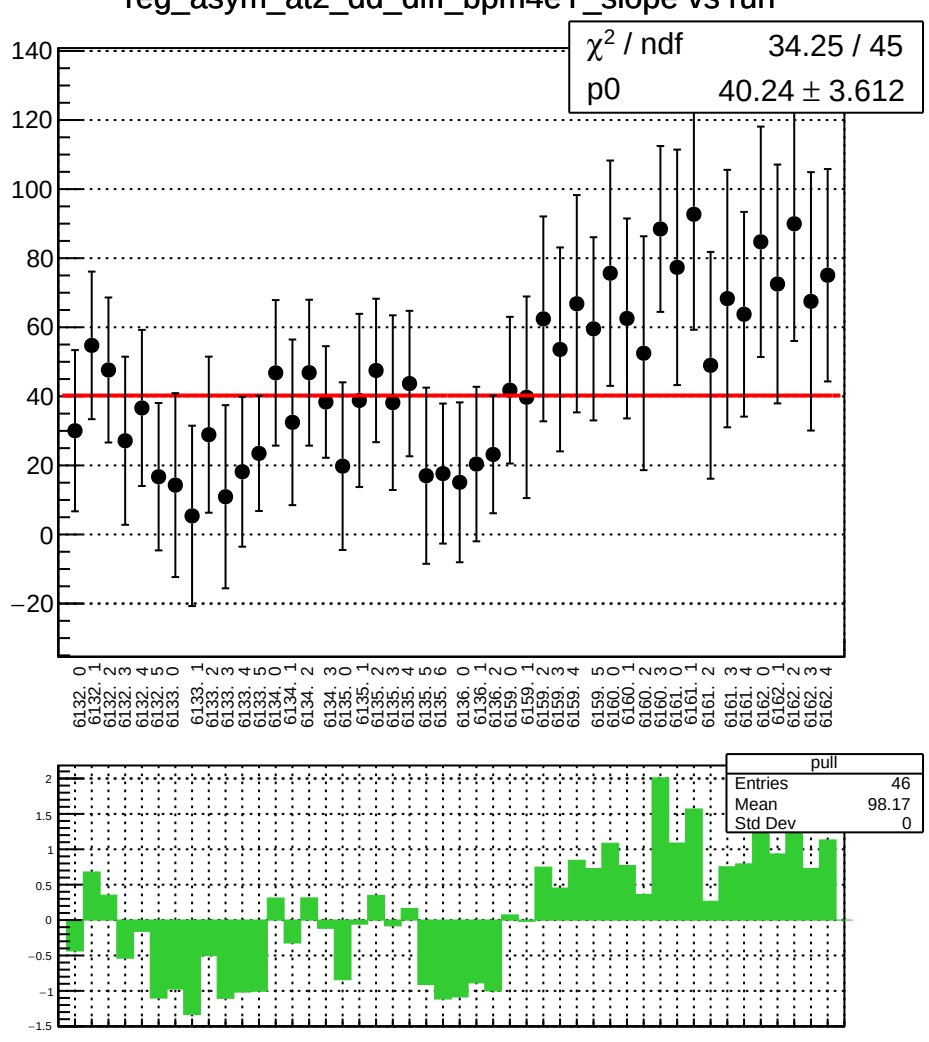

pull1D
Entries 46
Mean −0.01731
Std Dev 0.5614

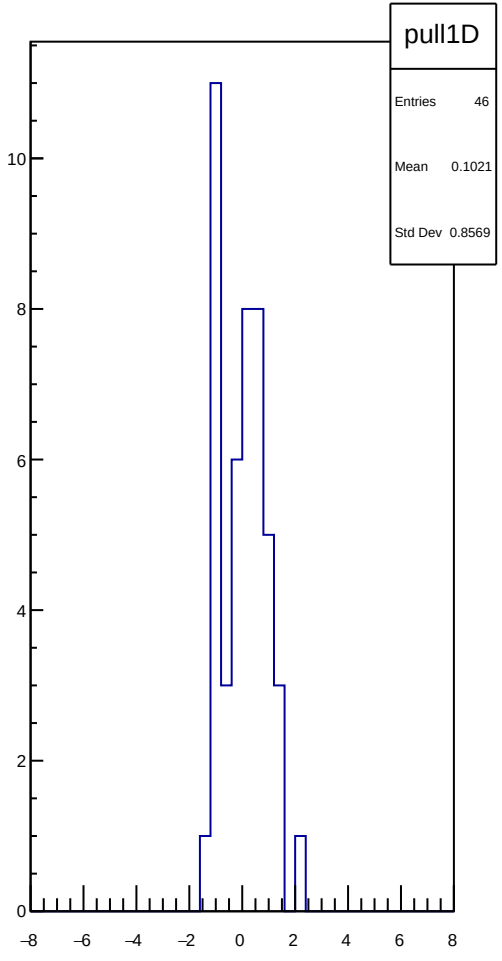

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.16 / 45
p0 −15.88 ± 3.376
pull
Entries 46
Mean 104.2
Std Dev 0

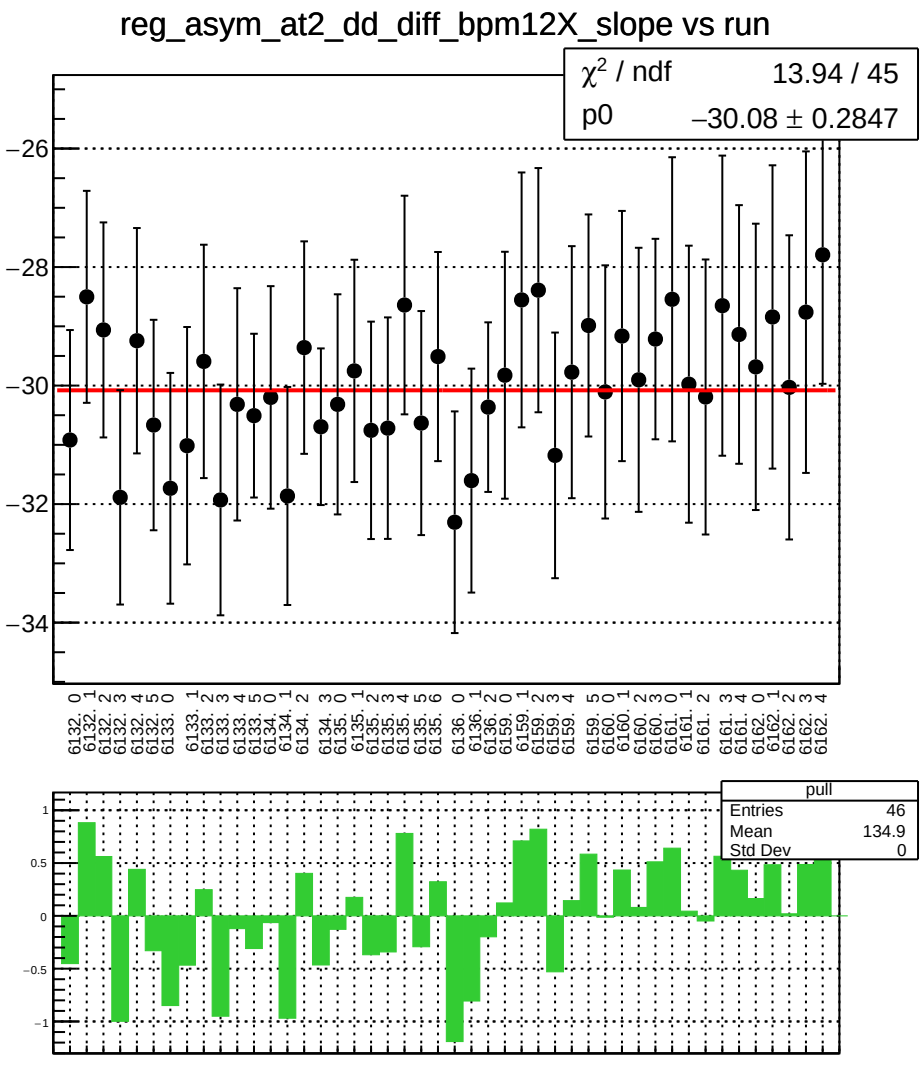

pull1D
Entries 46
Mean −0.08036
Std Dev 0.7498

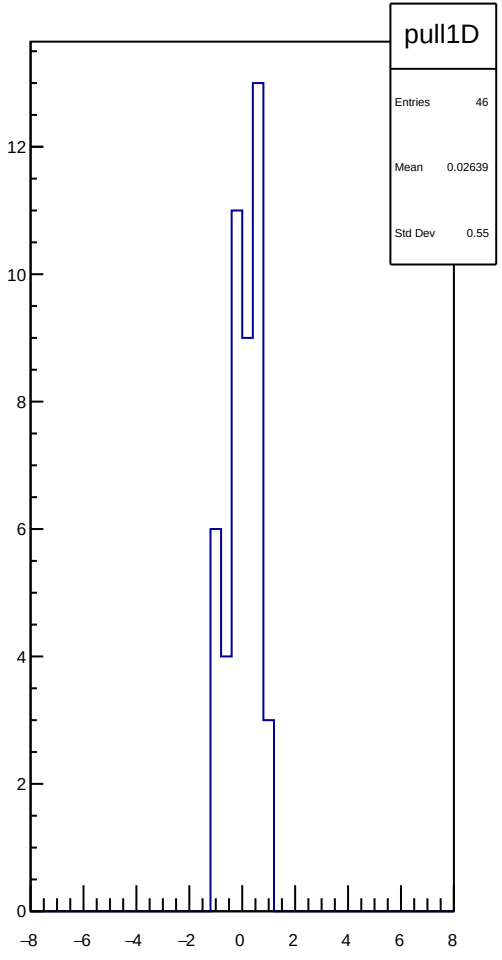

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.01 / 45
p0 161 ± 3.495
220
200
180
160
140
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 39.01
Std Dev 0
1
0.5
0
−0.5
−1

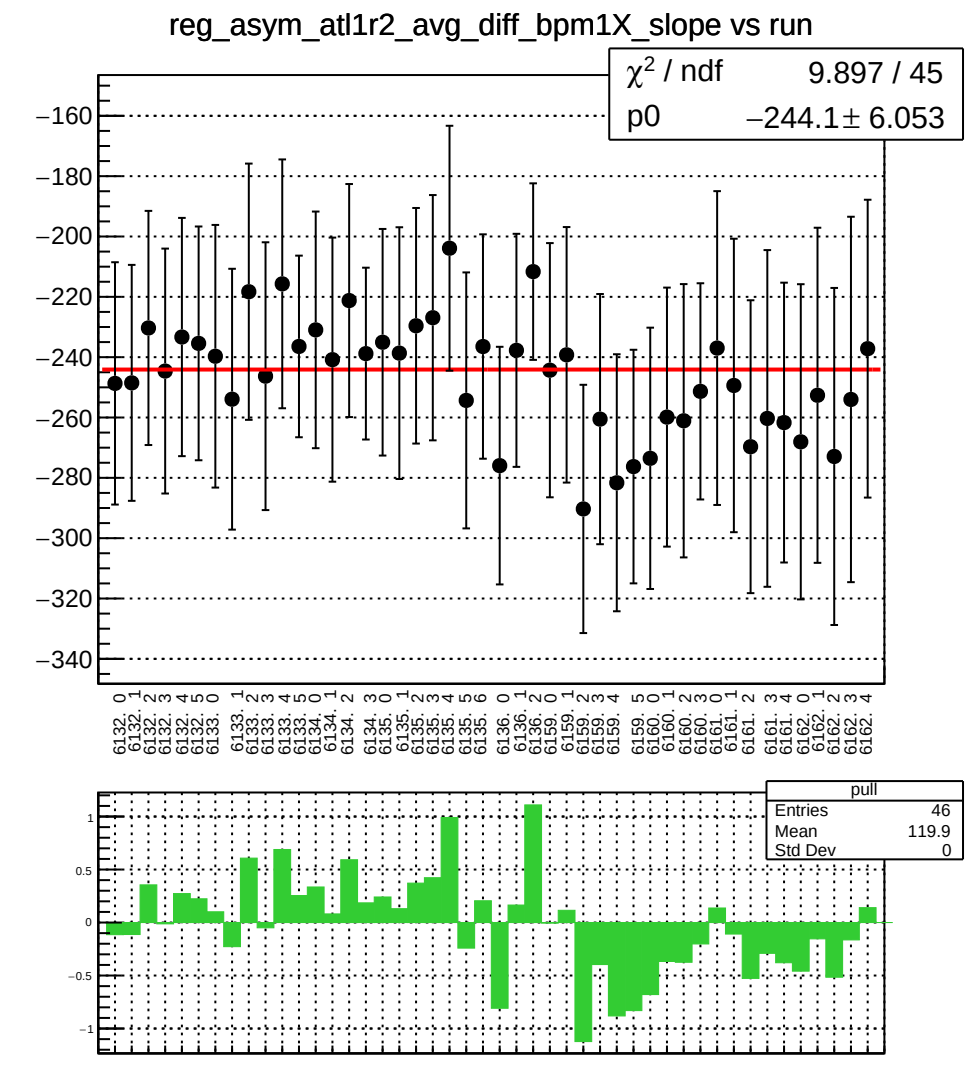

pull1D
Entries 46
Mean 0.01827
Std Dev 0.571
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

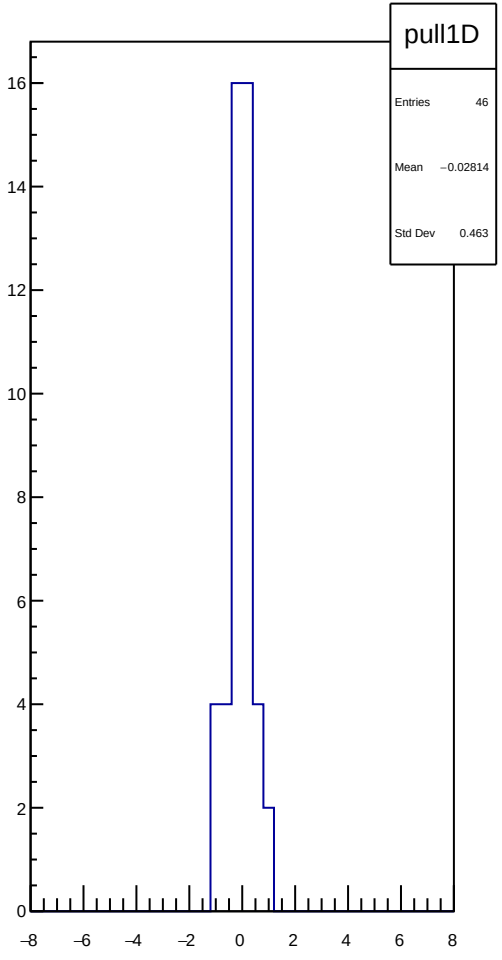

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.25 / 45
p0 40.24 ± 3.612
pull
Entries 46
Mean 98.17
Std Dev 0

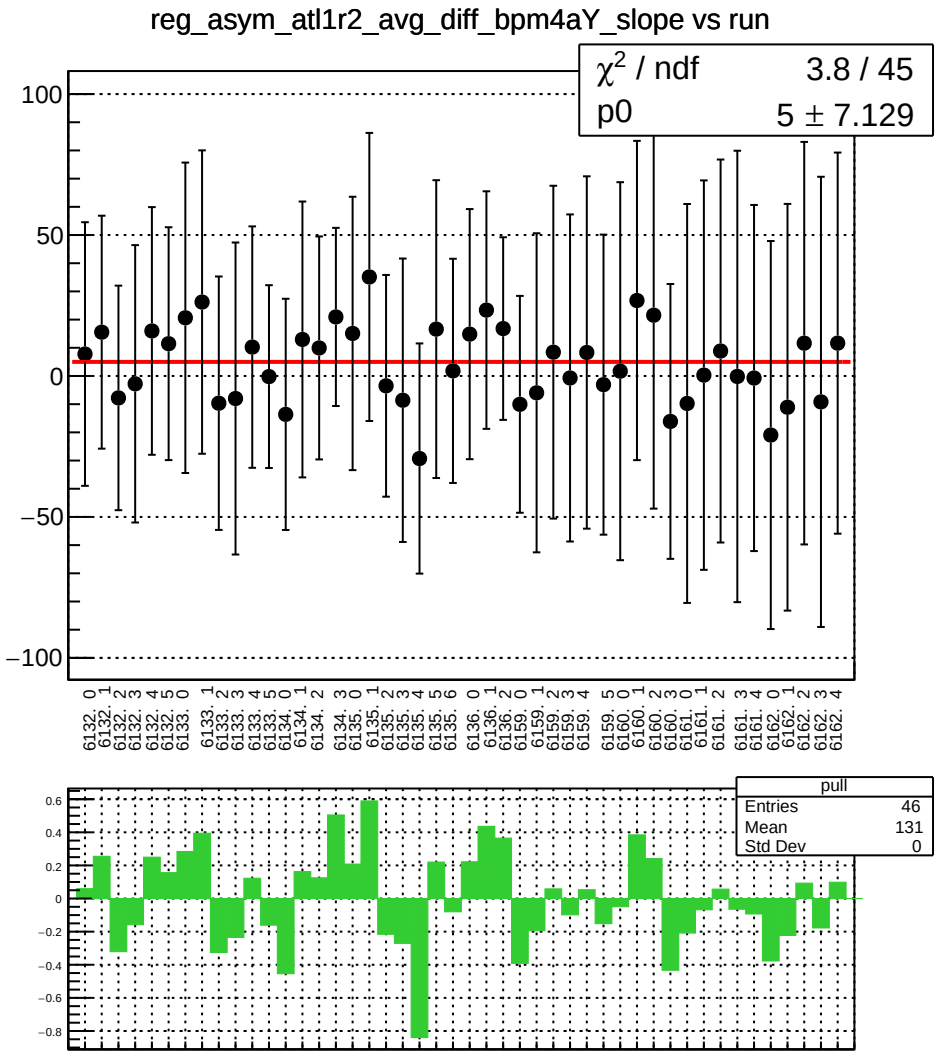

pull1D
Entries 46
Mean 0.1021
Std Dev 0.8569

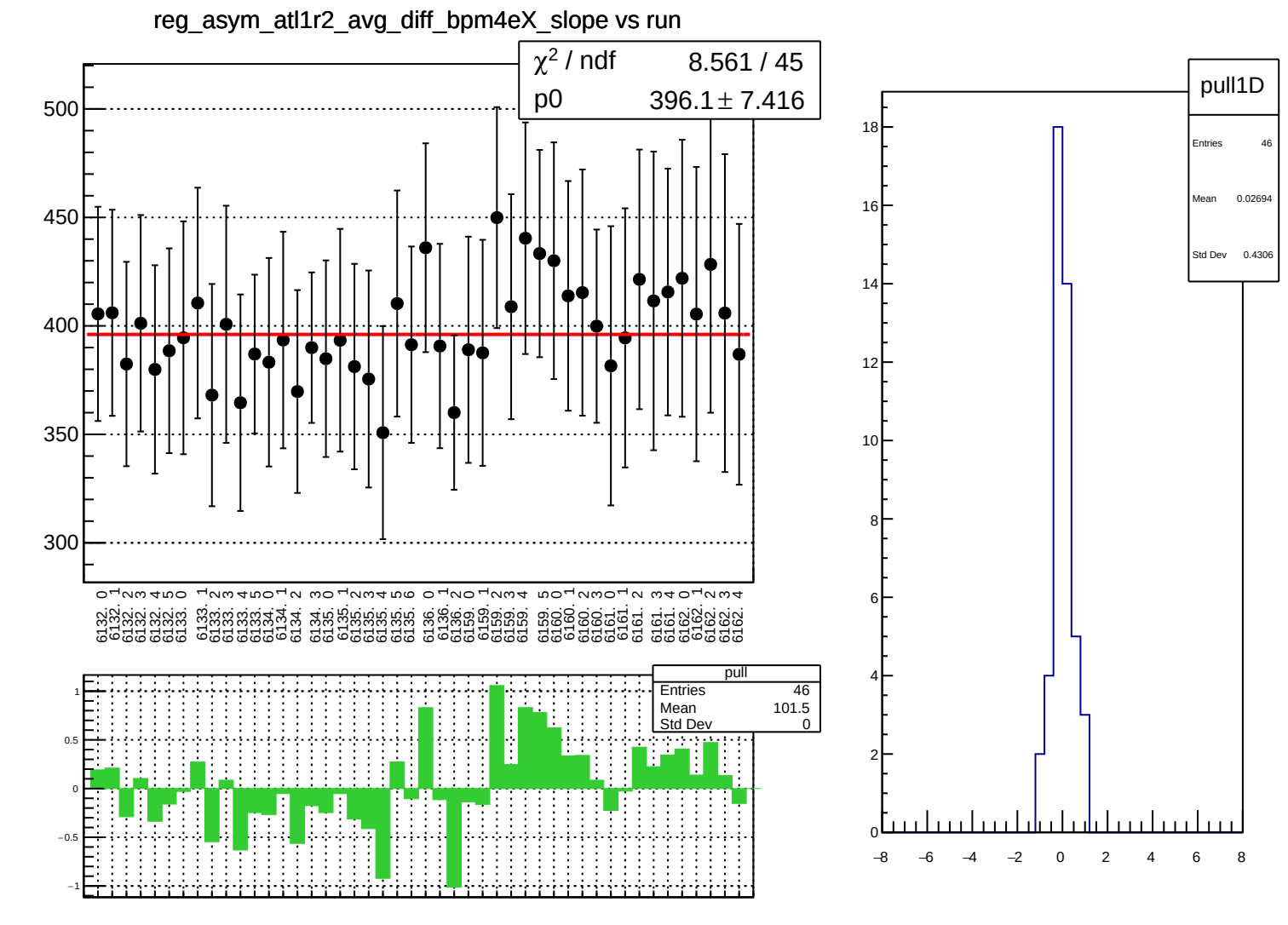

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 13.94 / 45
p0 −30.08 ± 0.2847
−26
−28
−30
−32
−34
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 134.9
Std Dev 0
1
0.5
0
−0.5
−1

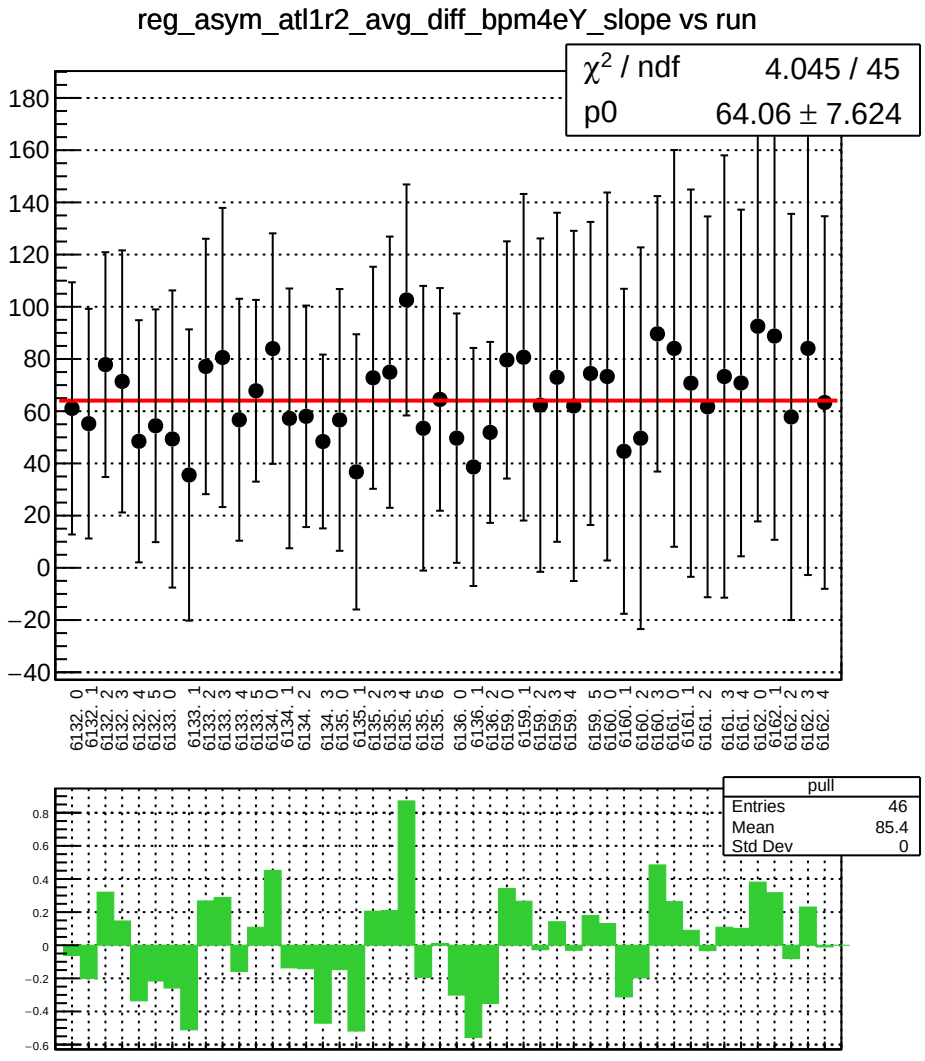

pull1D
Entries 46
Mean 0.02639
Std Dev 0.55
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

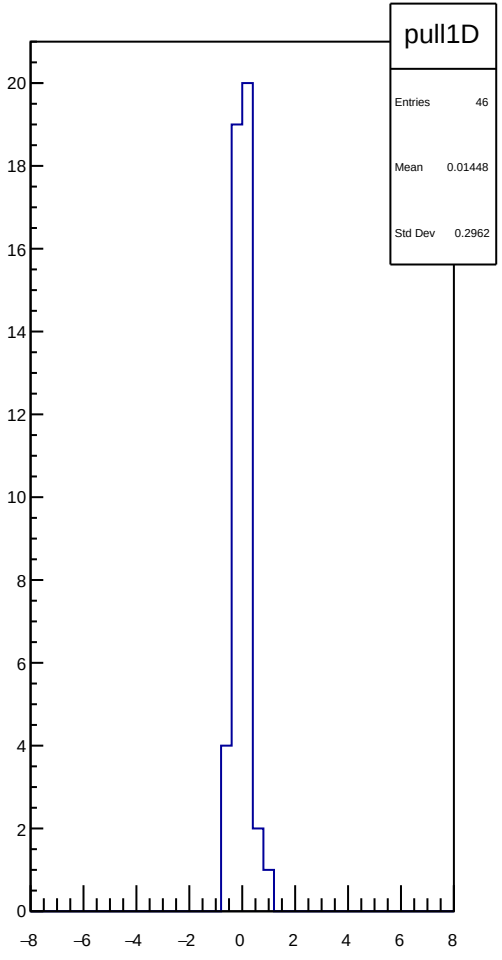

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 9.897 / 45
p0 −244.1± 6.053
pull
Entries 46
Mean 119.9
Std Dev 0

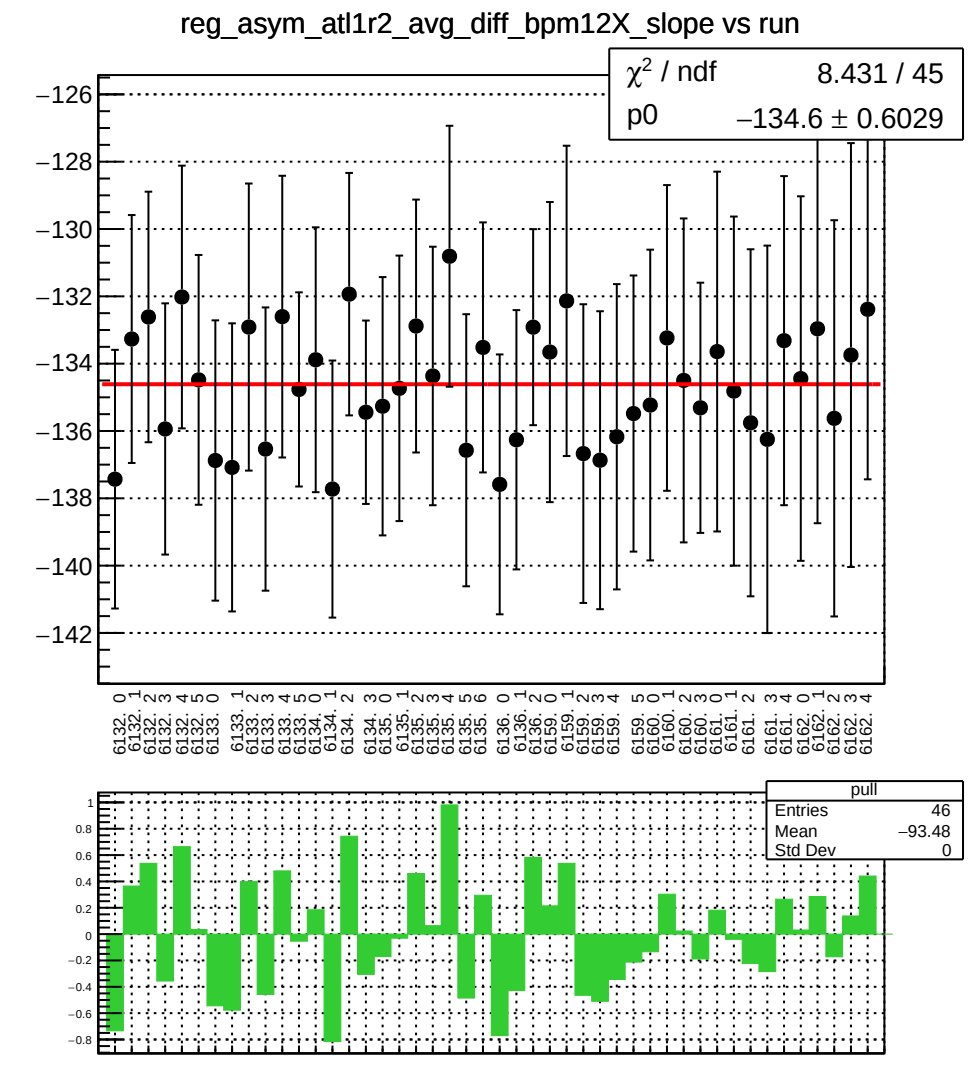

pull1D
Entries 46
Mean −0.02814
Std Dev 0.463

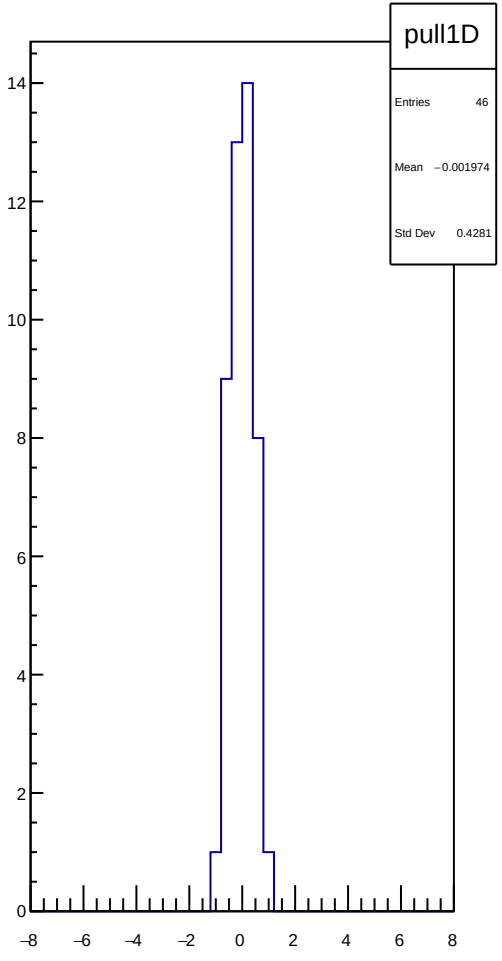

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.8 / 45
p0 5 ± 7.129
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 131
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean −0.005451
Std Dev 0.2874
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

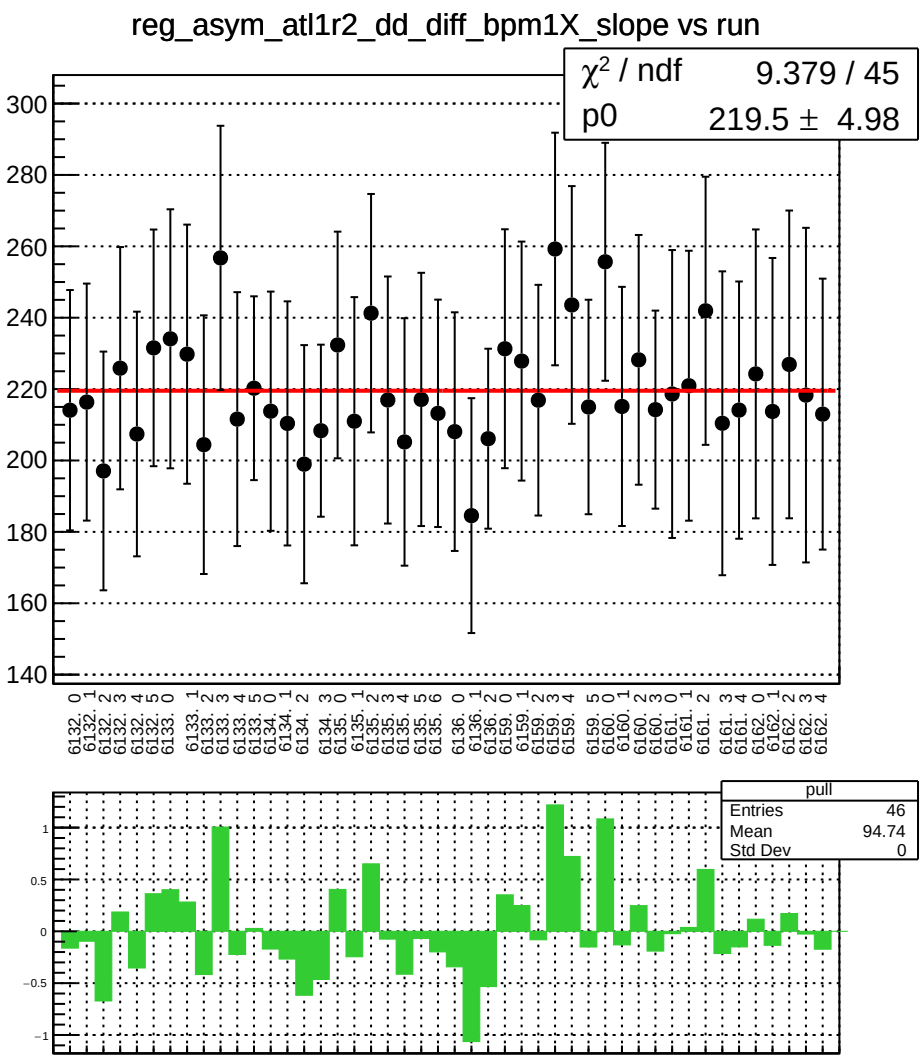

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.561 / 45
p0 396.1 ± 7.416
500
450
400
350
300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 101.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean 0.02694
Std Dev 0.4306
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

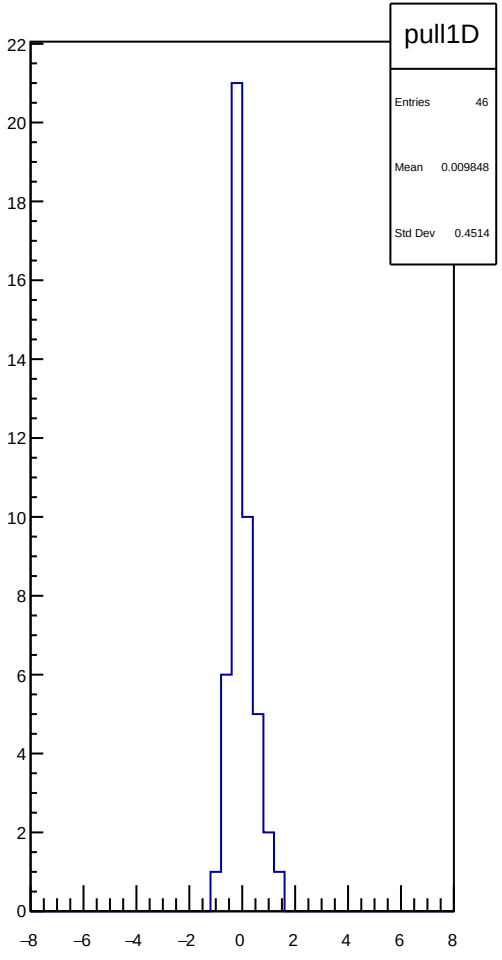

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.045 / 45
p0 64.06 ± 7.624
pull
Entries 46
Mean 85.4
Std Dev 0

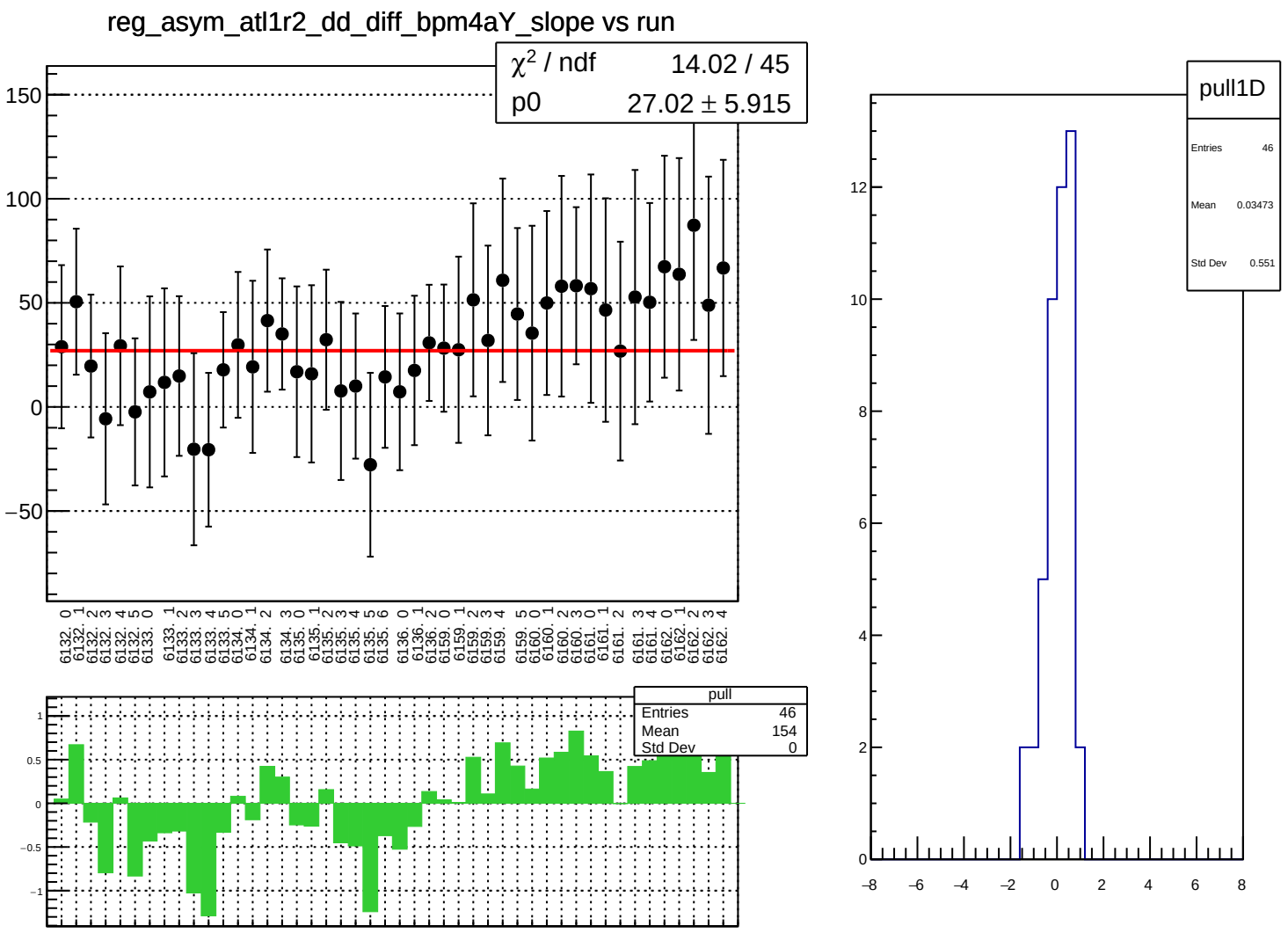

pull1D
Entries 46
Mean 0.01448
Std Dev 0.2962

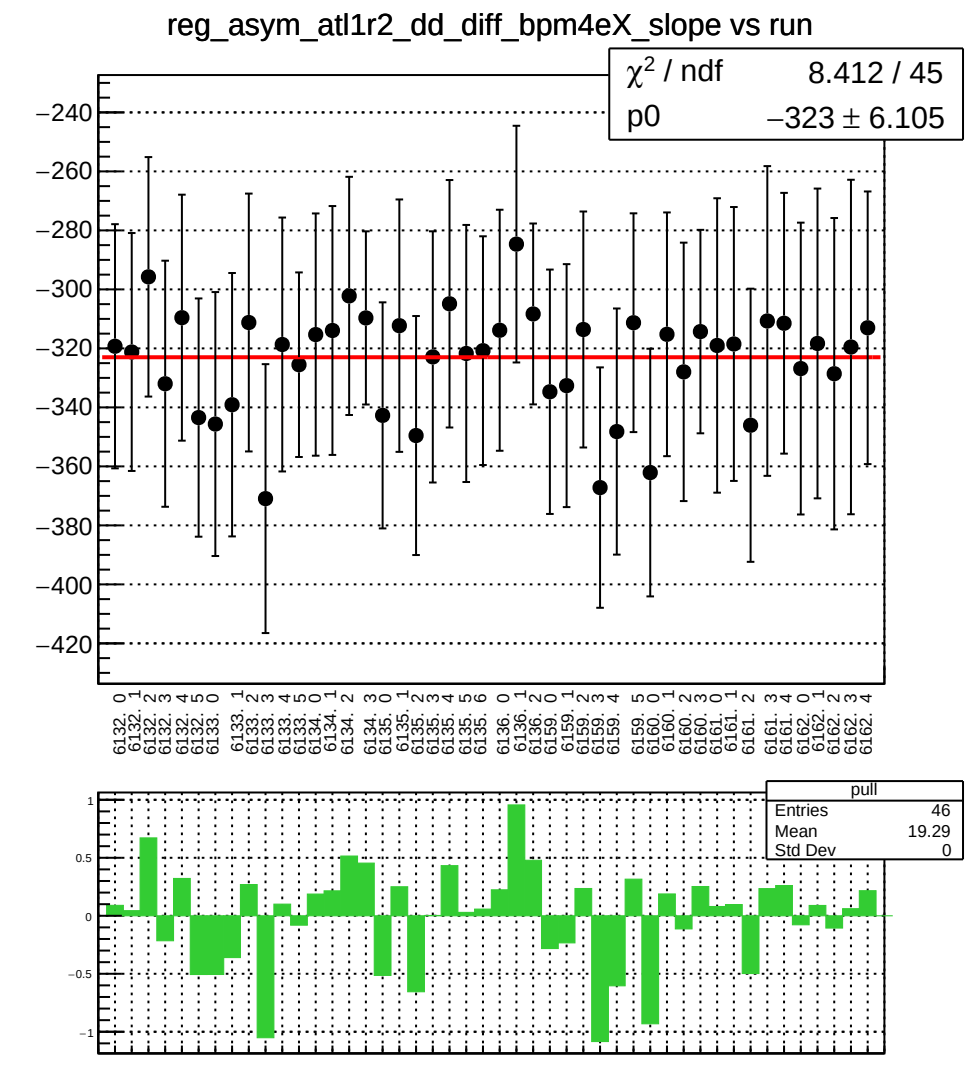

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 8.431 / 45
p0 −134.6 ± 0.6029
pull
Entries 46
Mean −93.48
Std Dev 0

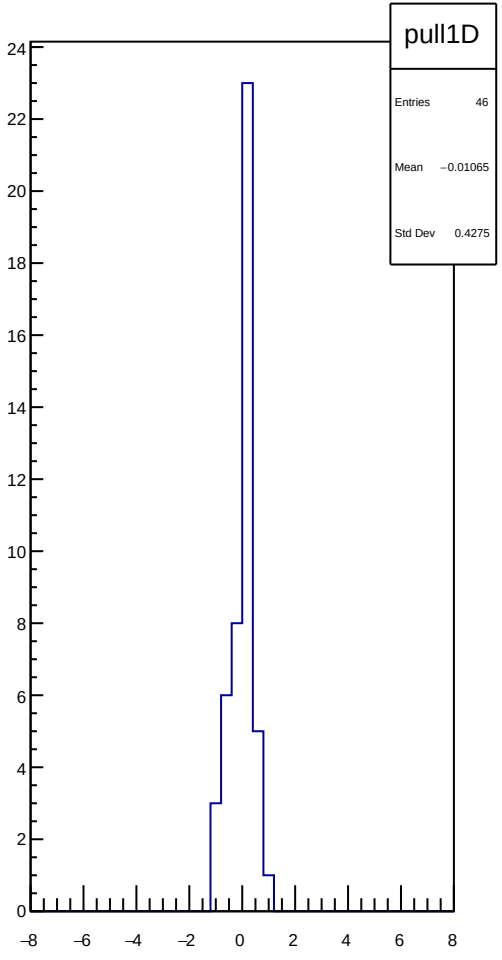

pull1D
Entries 46
Mean −0.001974
Std Dev 0.4281

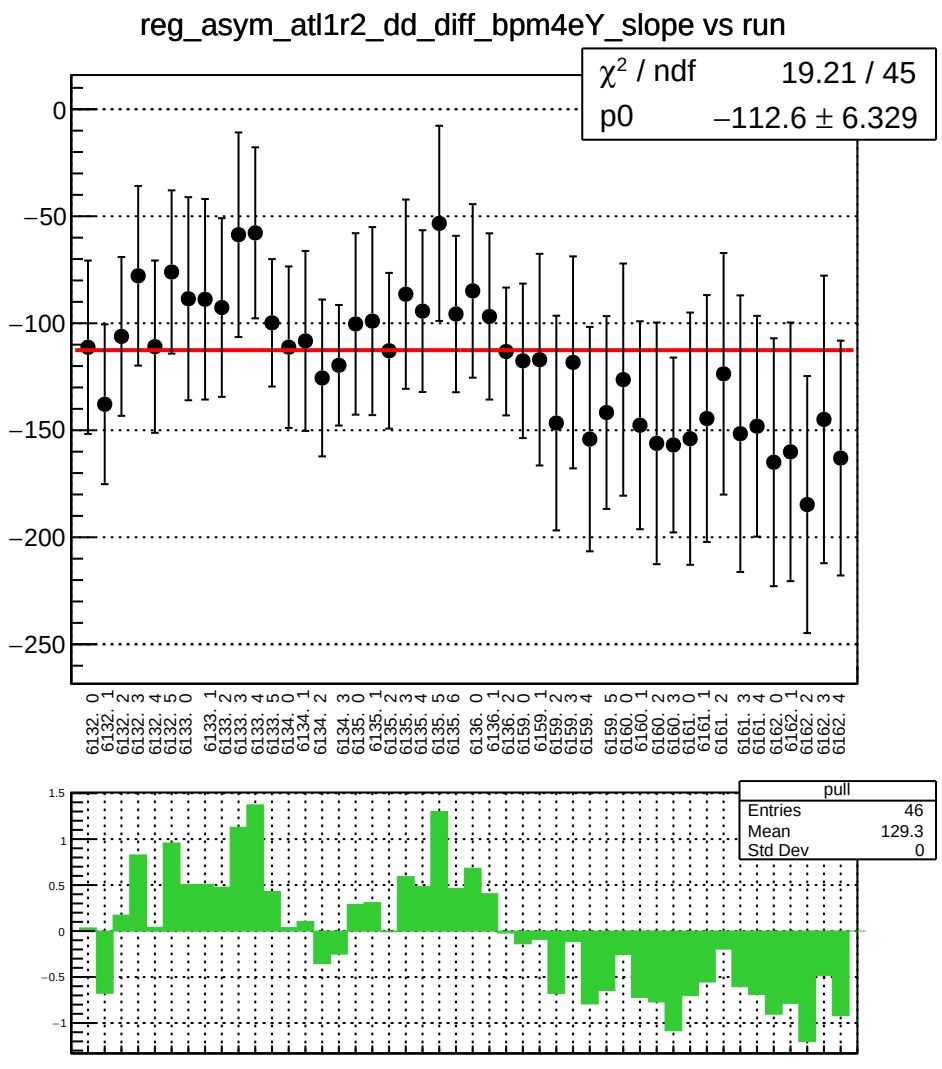

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 9.379 / 45
p0 219.5 ± 4.98
pull
Entries 46
Mean 94.74
Std Dev 0

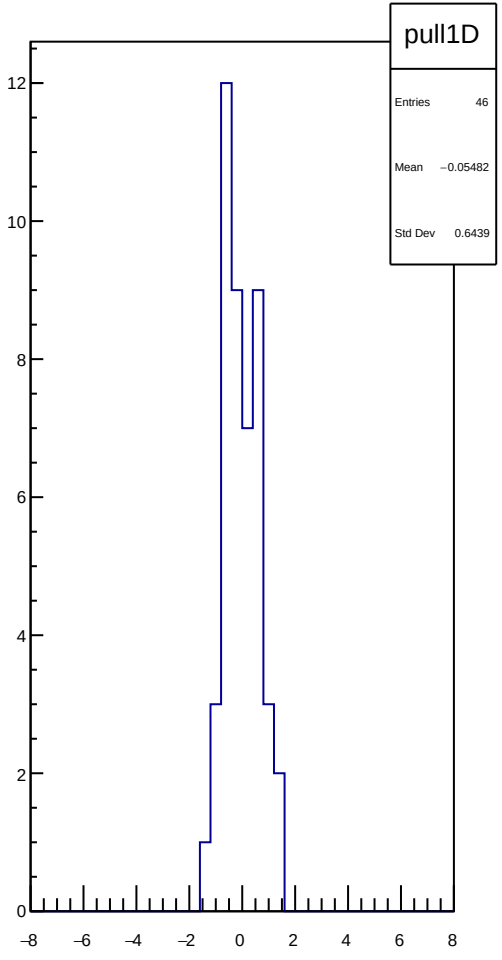

pull1D
Entries 46
Mean 0.009848
Std Dev 0.4514

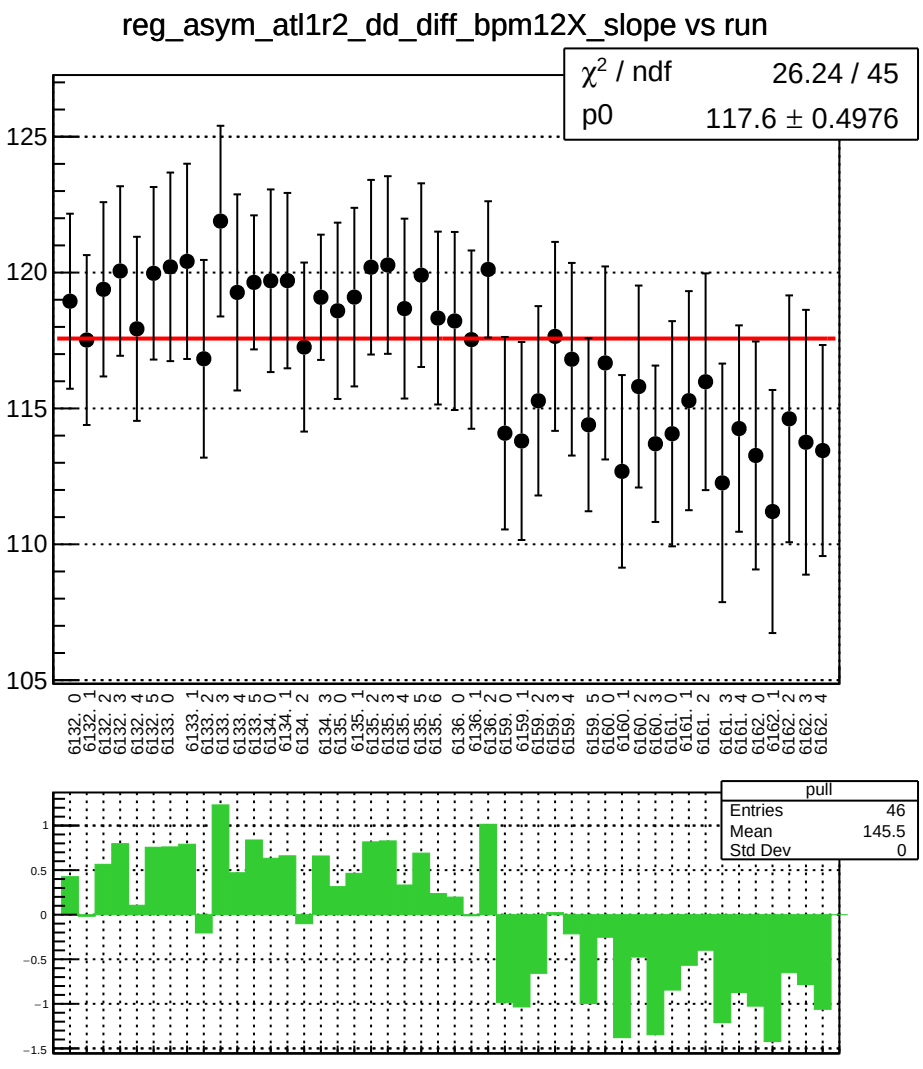

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.02 / 45
p0 27.02 ± 5.915
150
100
50
0
−50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 154
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean 0.03473
Std Dev 0.551
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

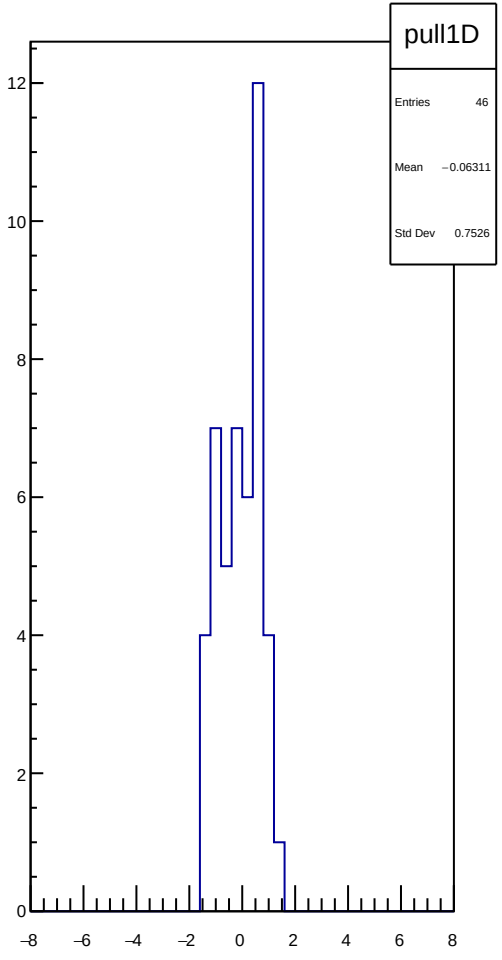

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.412 / 45
p0 −323 ± 6.105
pull
Entries 46
Mean 19.29
Std Dev 0

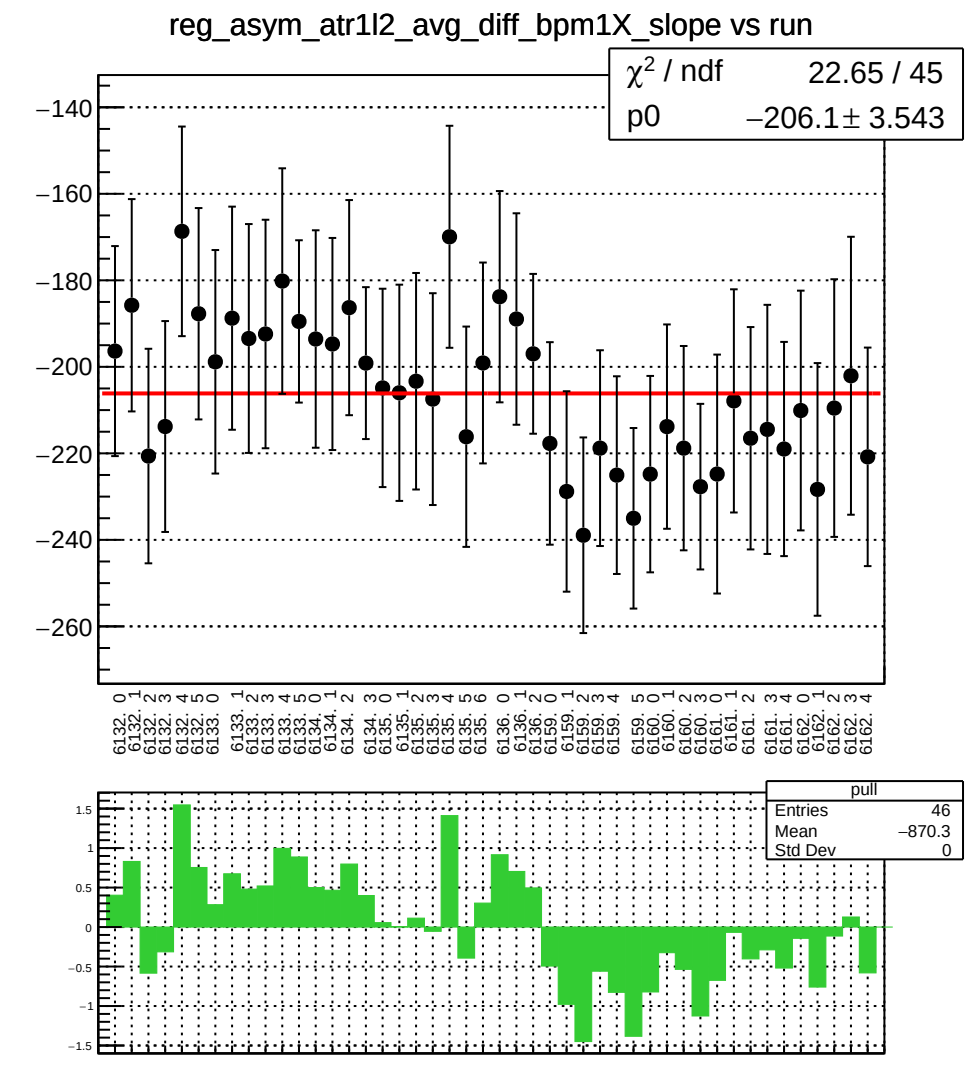

pull1D
Entries 46
Mean −0.01065
Std Dev 0.4275

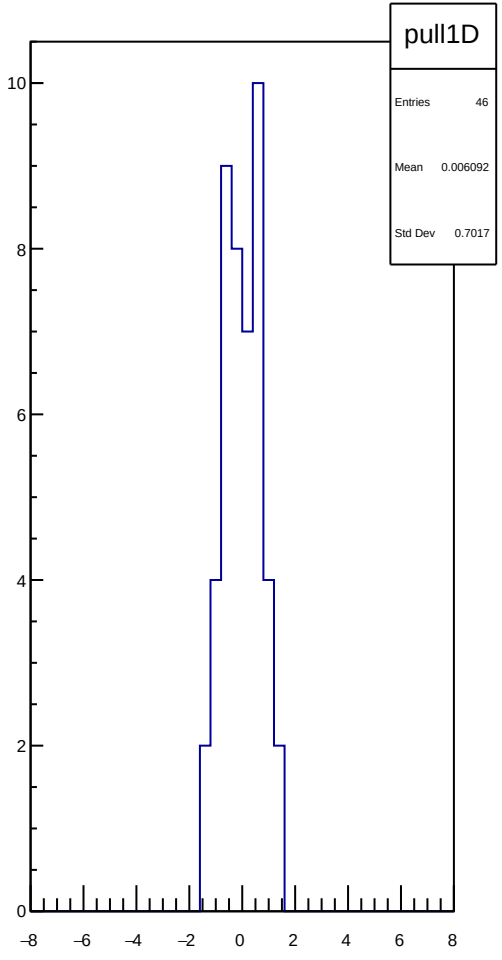

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.21 / 45
p0 −112.6 ± 6.329
pull
Entries 46
Mean 129.3
Std Dev 0

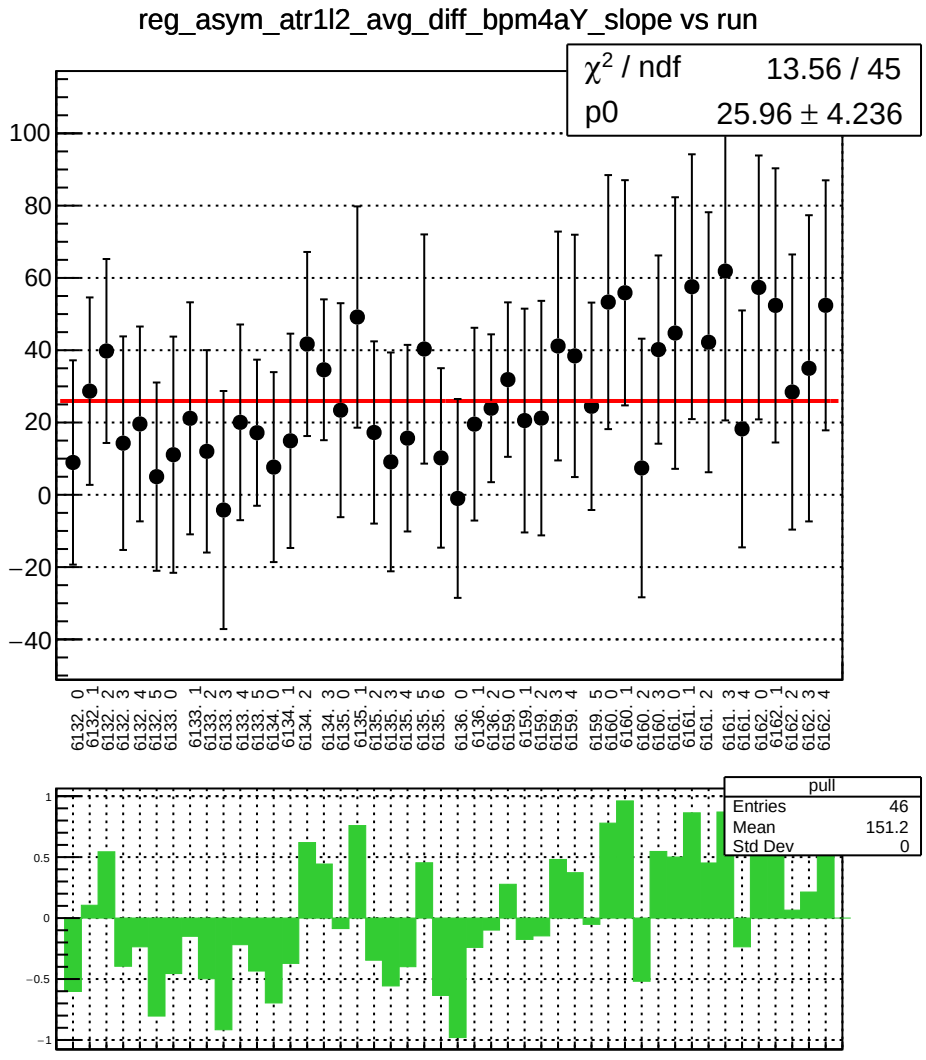

pull1D
Entries 46
Mean −0.05482
Std Dev 0.6439

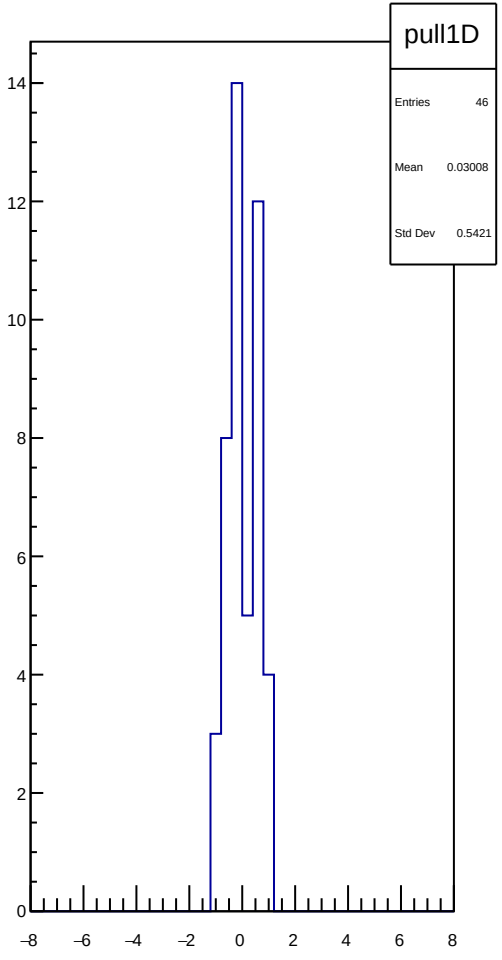

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 26.24 / 45
p0 117.6 ± 0.4976
pull
Entries 46
Mean 145.5
Std Dev 0

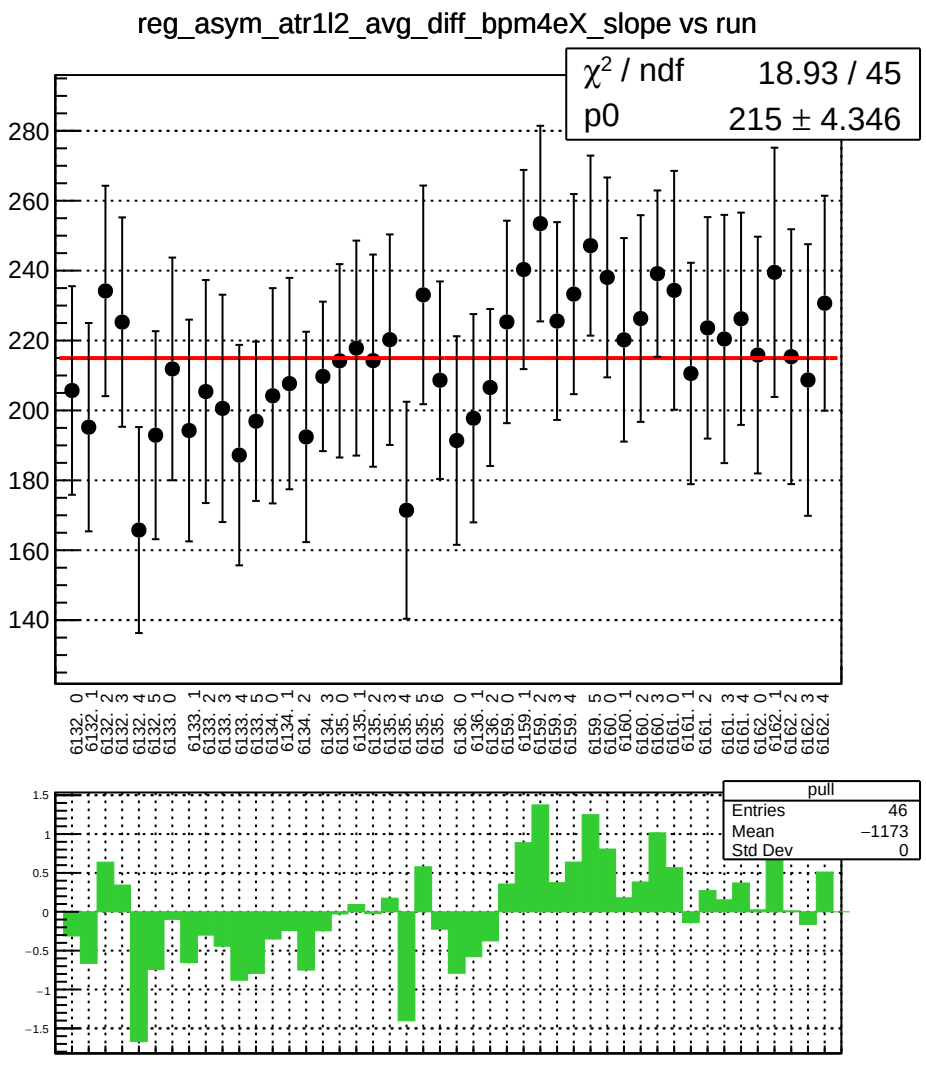

pull1D
Entries 46
Mean −0.06311
Std Dev 0.7526

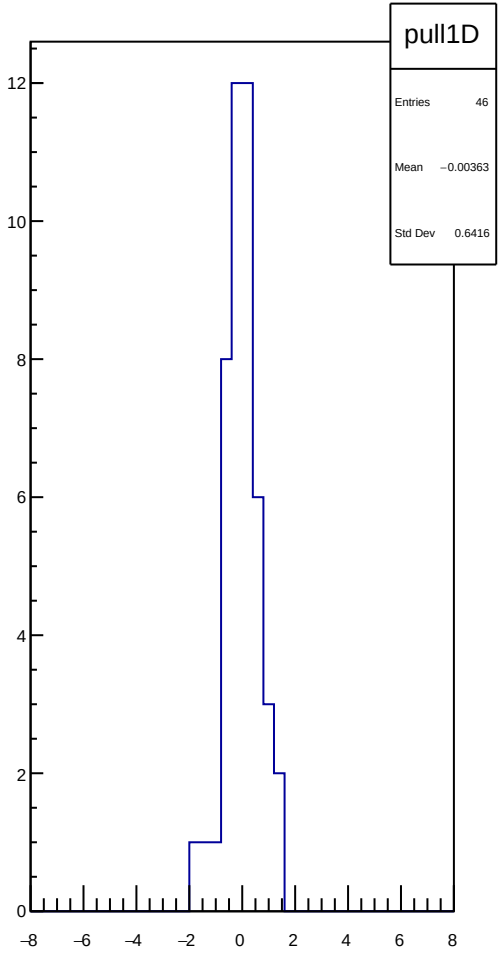

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 22.65 / 45
p0 −206.1 ± 3.543
−140
−160
−180
−200
−220
−240
−260
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −870.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

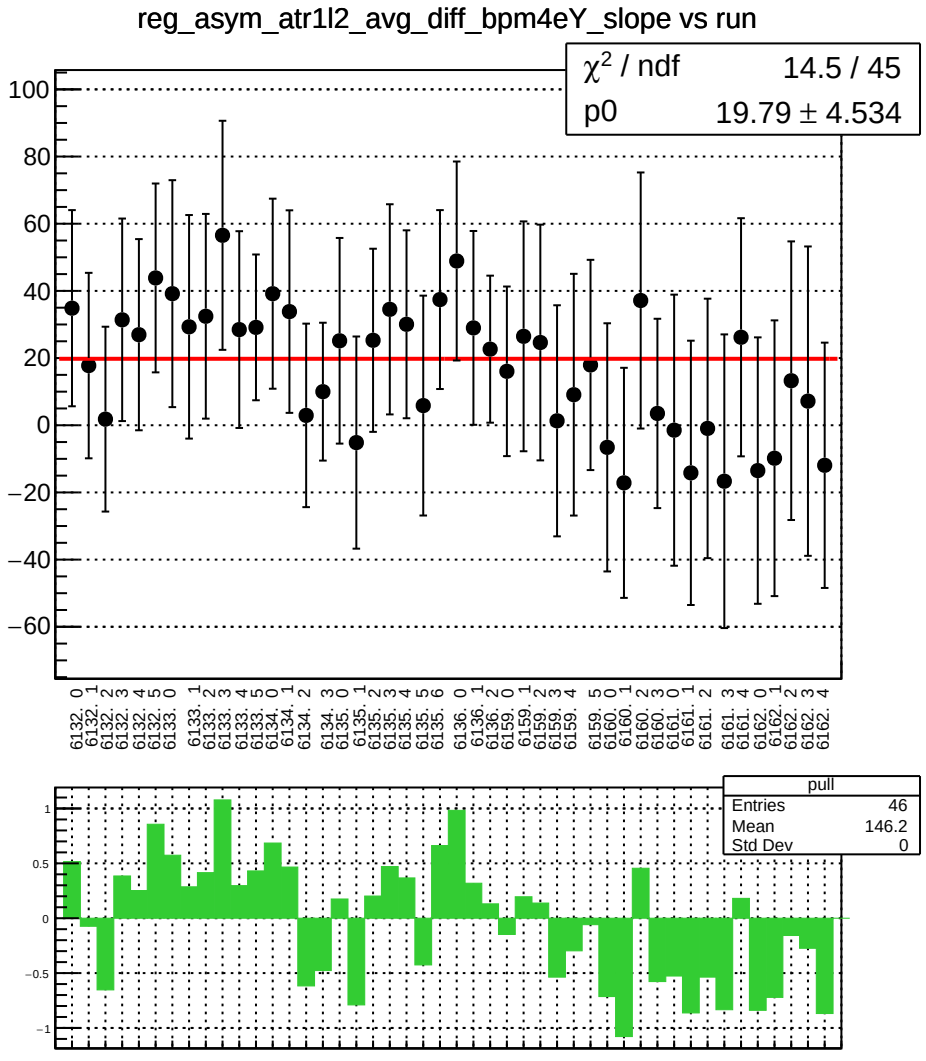

pull1D
Entries 46
Mean 0.006092
Std Dev 0.7017
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

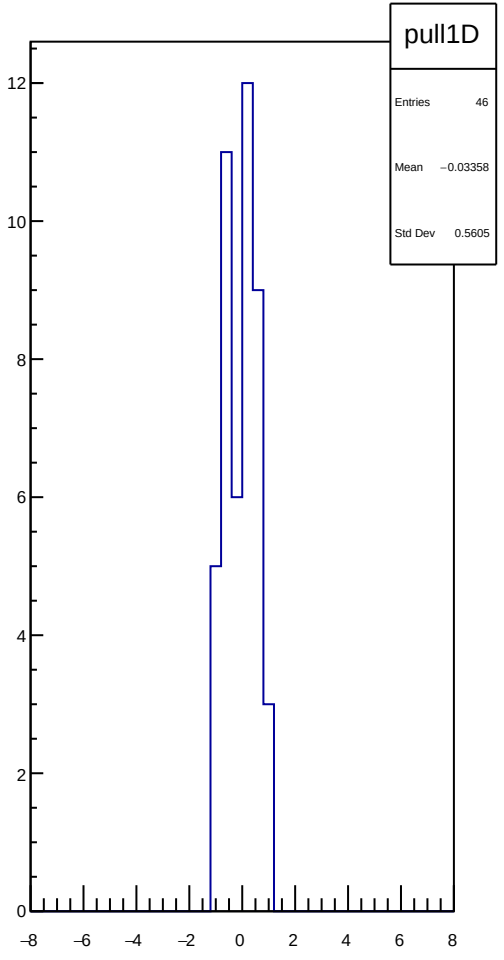

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.56 / 45
p0 25.96 ± 4.236
pull
Entries 46
Mean 151.2
Std Dev 0

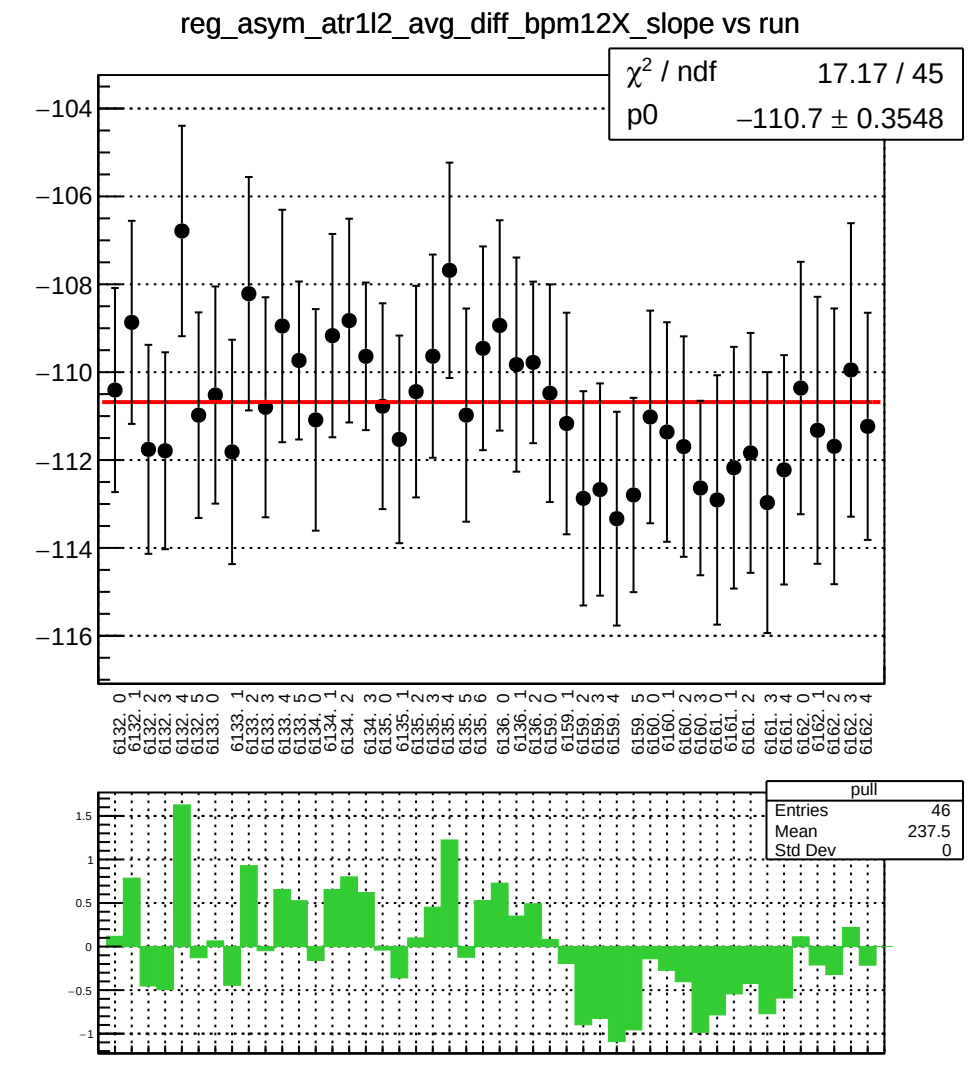

pull1D
Entries 46
Mean 0.03008
Std Dev 0.5421

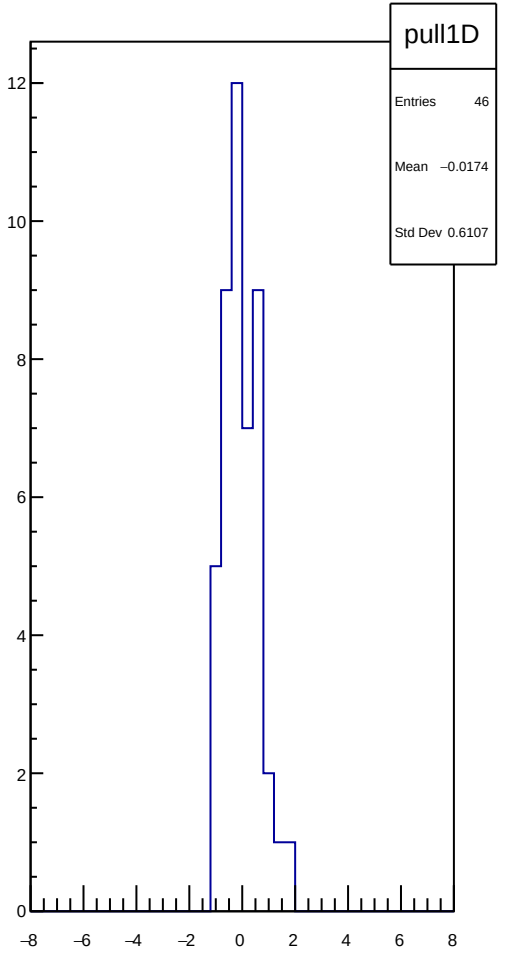

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.93 / 45
p0 215 ± 4.346
280
260
240
220
200
180
160
140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1173
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

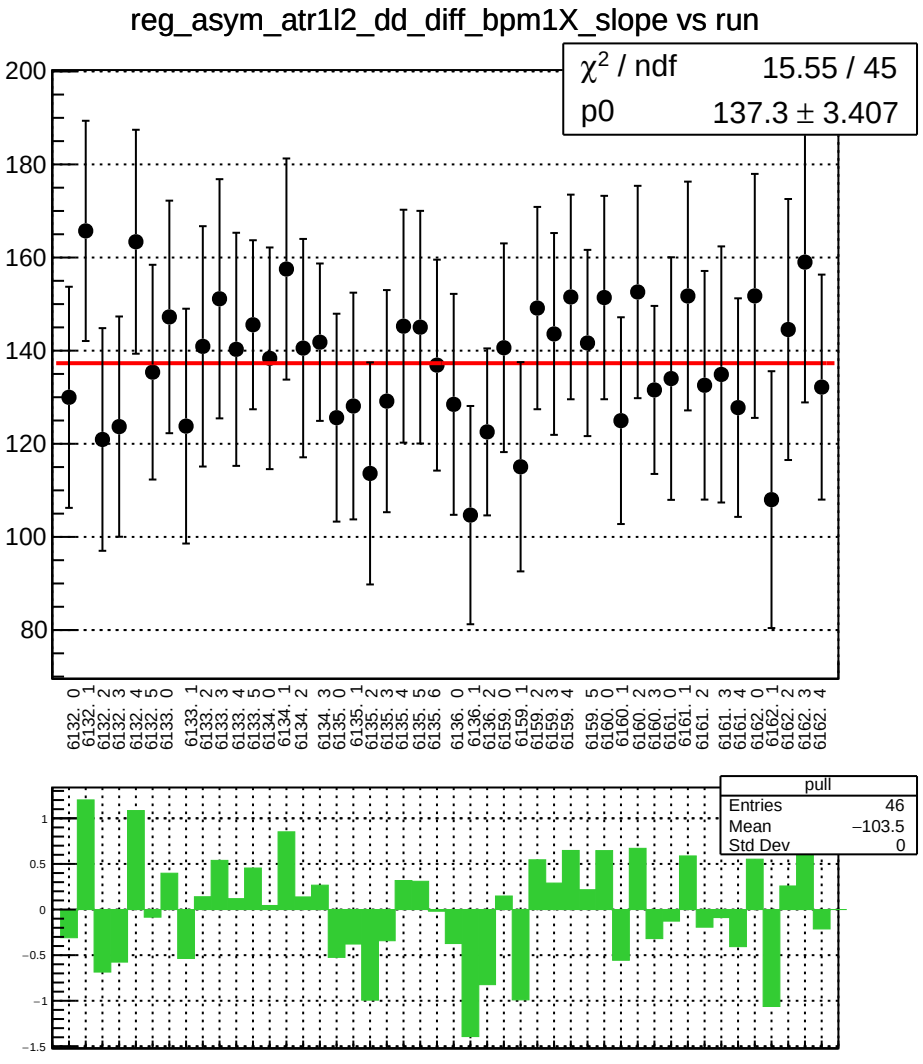

pull1D
Entries 46
Mean −0.00363
Std Dev 0.6416
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

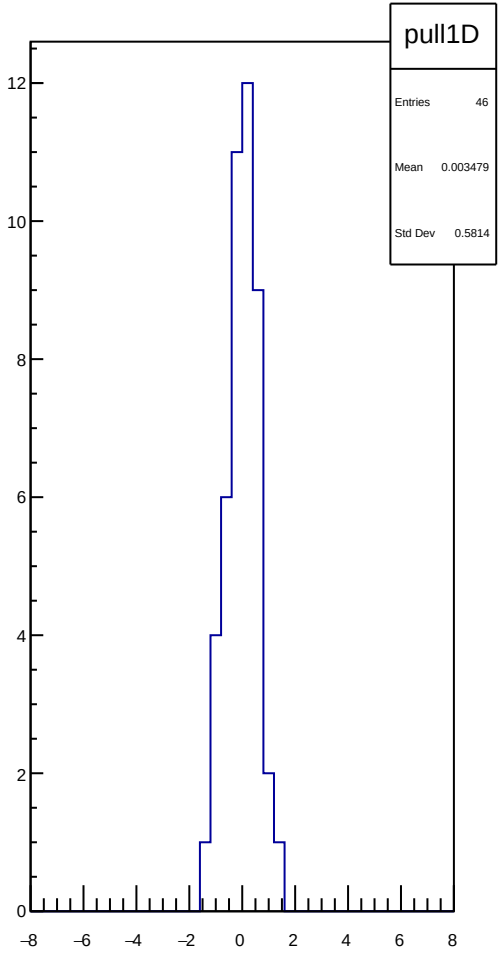

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.5 / 45
p0 19.79 ± 4.534
pull
Entries 46
Mean 146.2
Std Dev 0

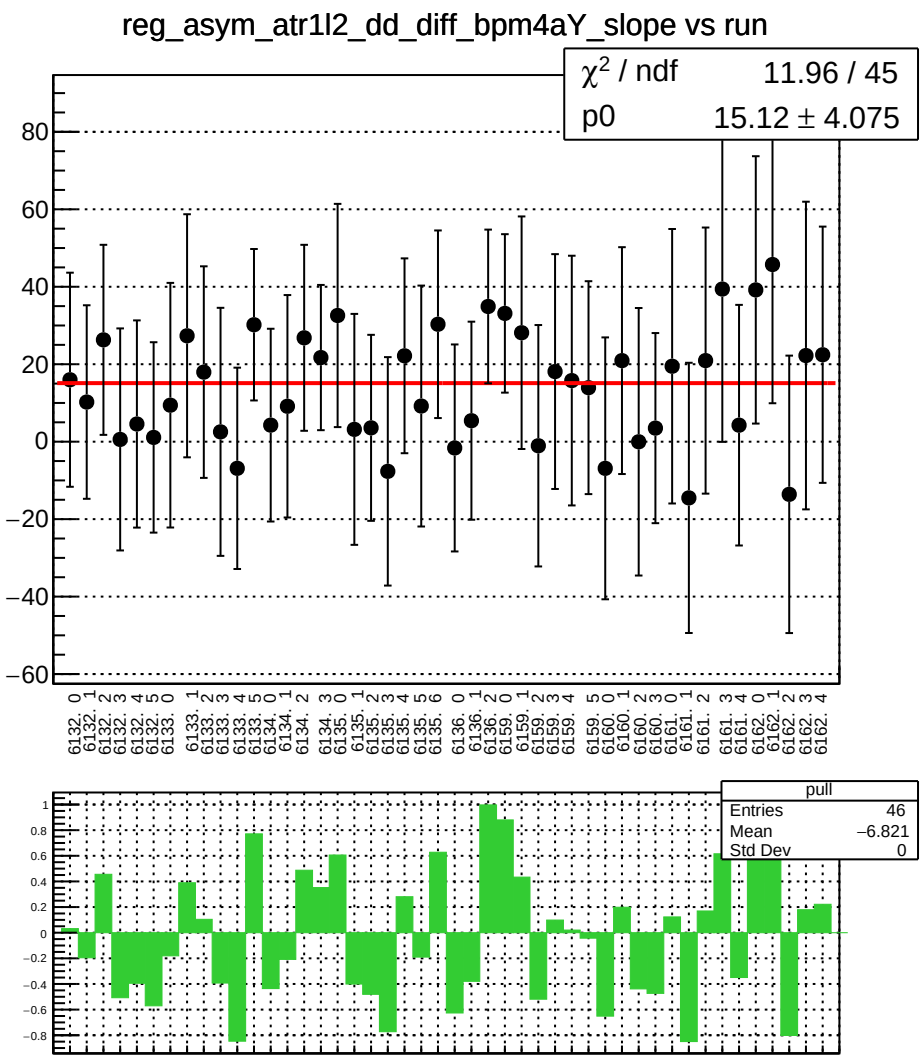

pull1D
Entries 46
Mean −0.03358
Std Dev 0.5605

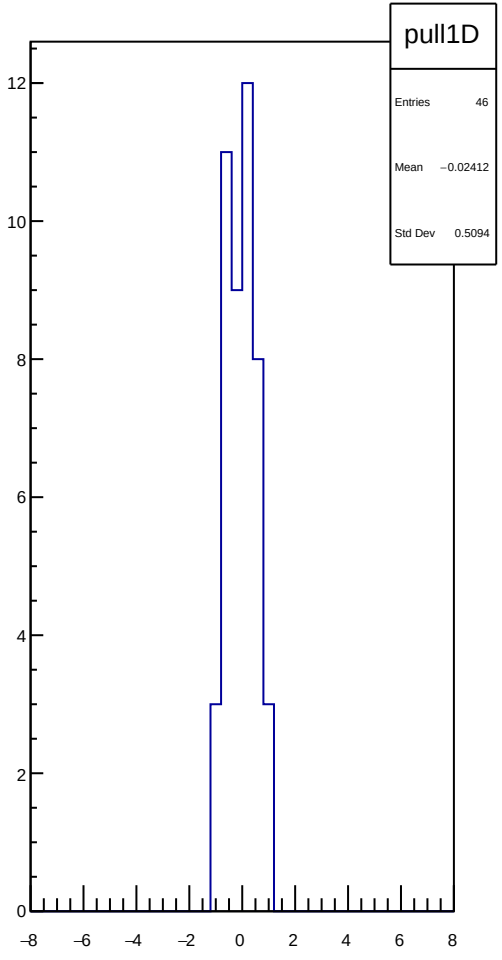

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 17.17 / 45
p0 −110.7 ± 0.3548
−104
−106
−108
−110
−112
−114
−116
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 237.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1

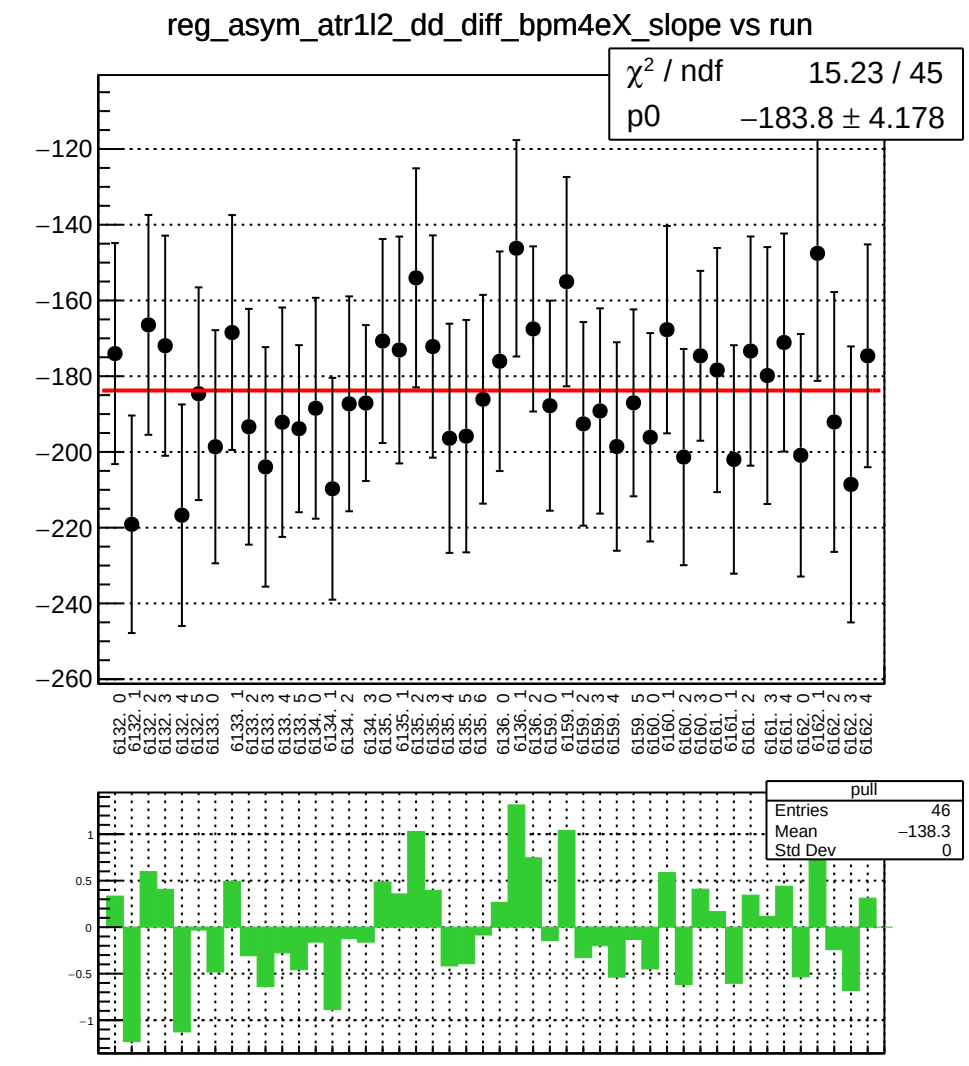

pull1D
Entries 46
Mean −0.0174
Std Dev 0.6107
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

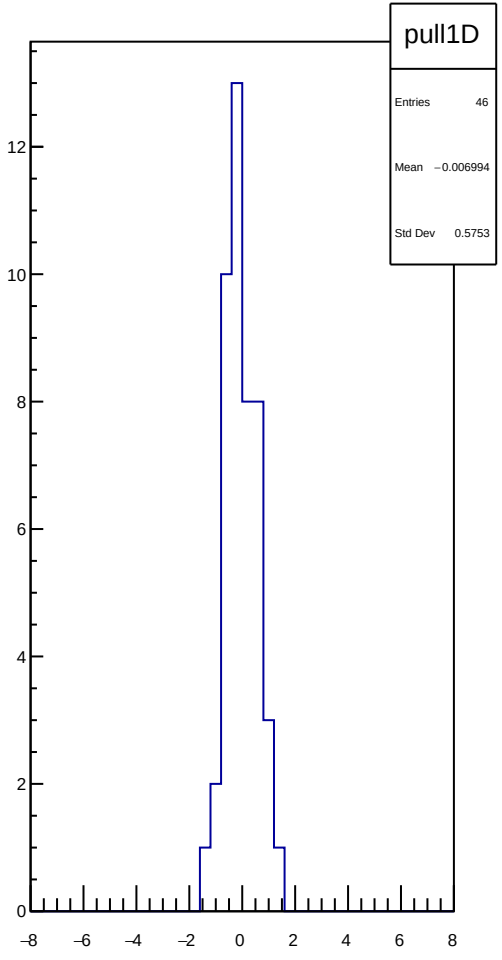

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 15.55 / 45
p0 137.3 ± 3.407
pull
Entries 46
Mean −103.5
Std Dev 0

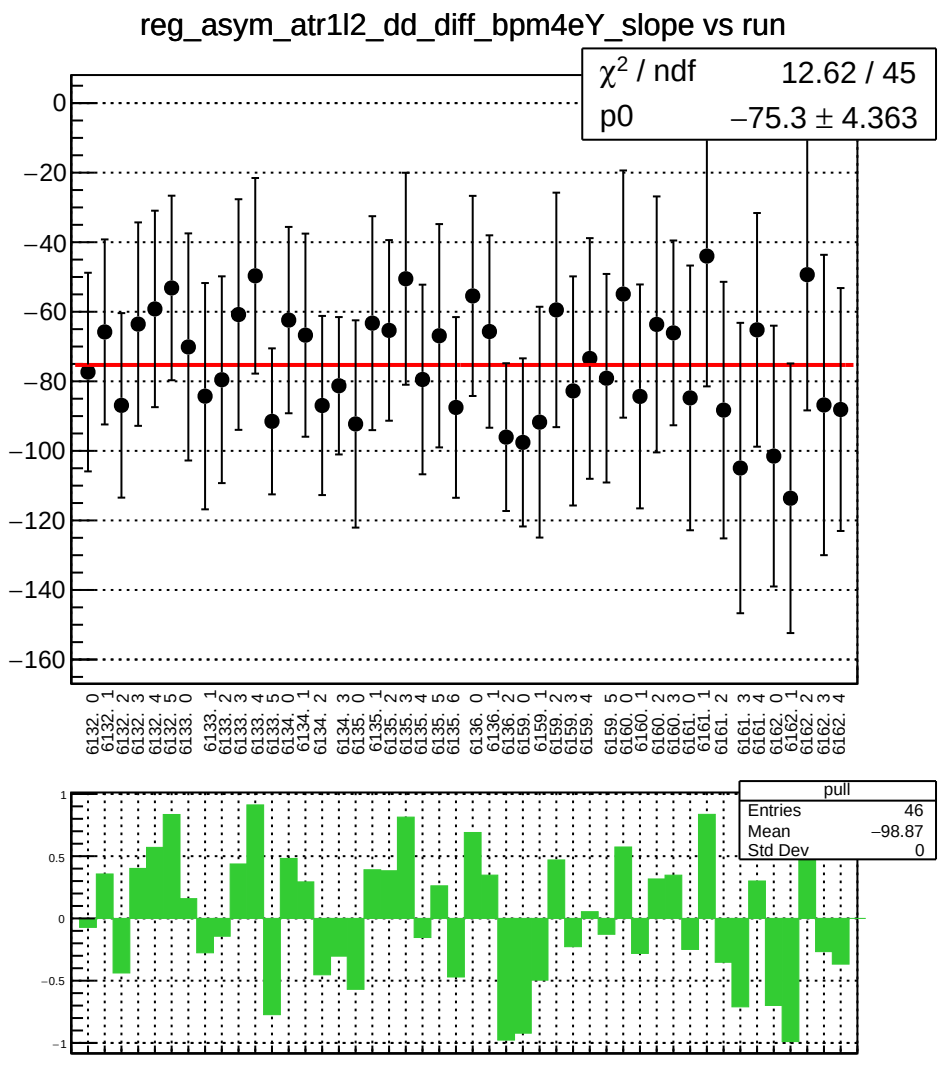

pull1D
Entries 46
Mean 0.003479
Std Dev 0.5814

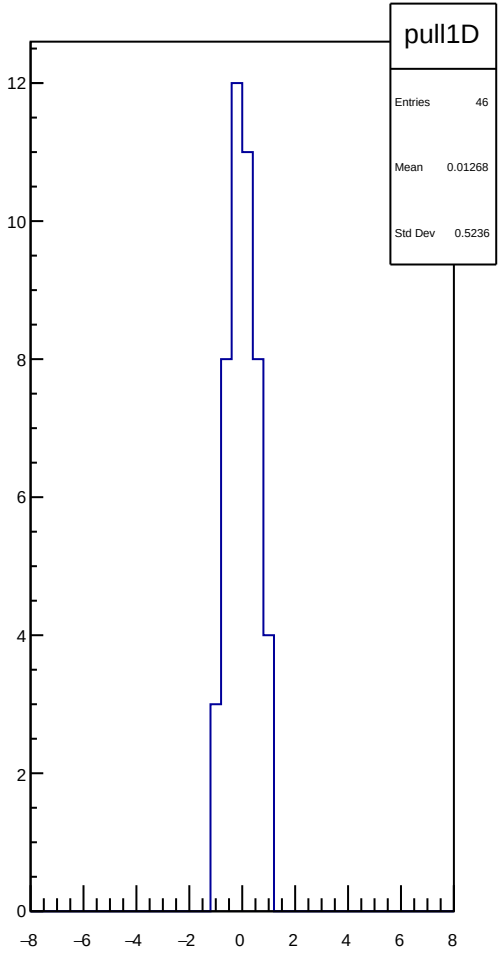

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.96 / 45
p0 15.12 ± 4.075
pull
Entries 46
Mean −6.821
Std Dev 0

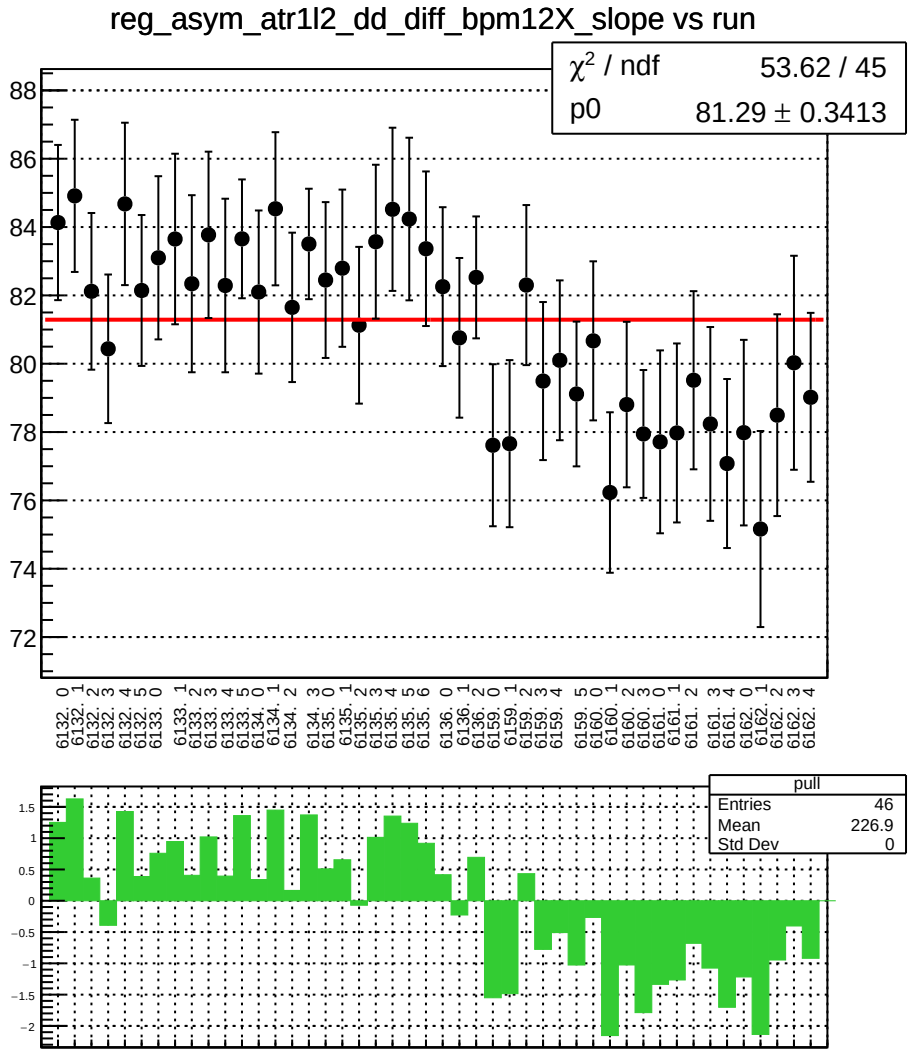

pull1D
Entries 46
Mean −0.02412
Std Dev 0.5094

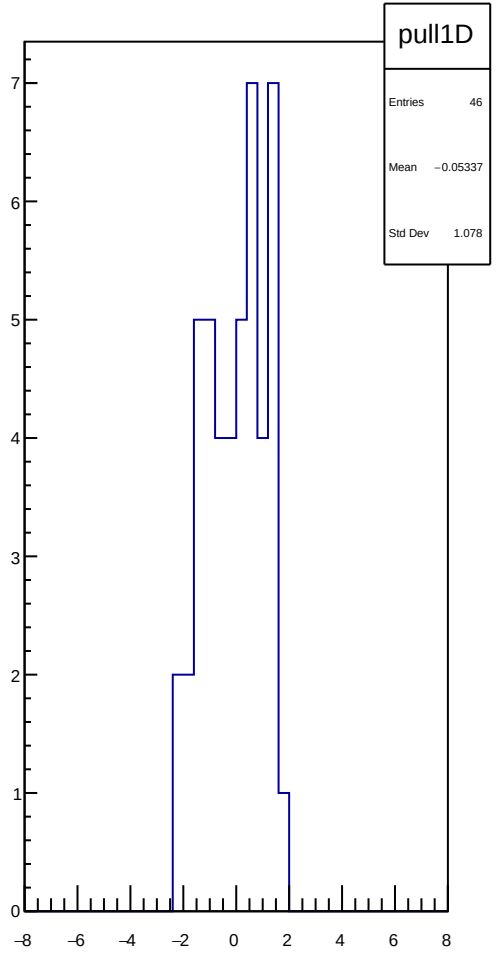

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.23 / 45
p0 −183.8 ± 4.178
pull
Entries 46
Mean −138.3
Std Dev 0

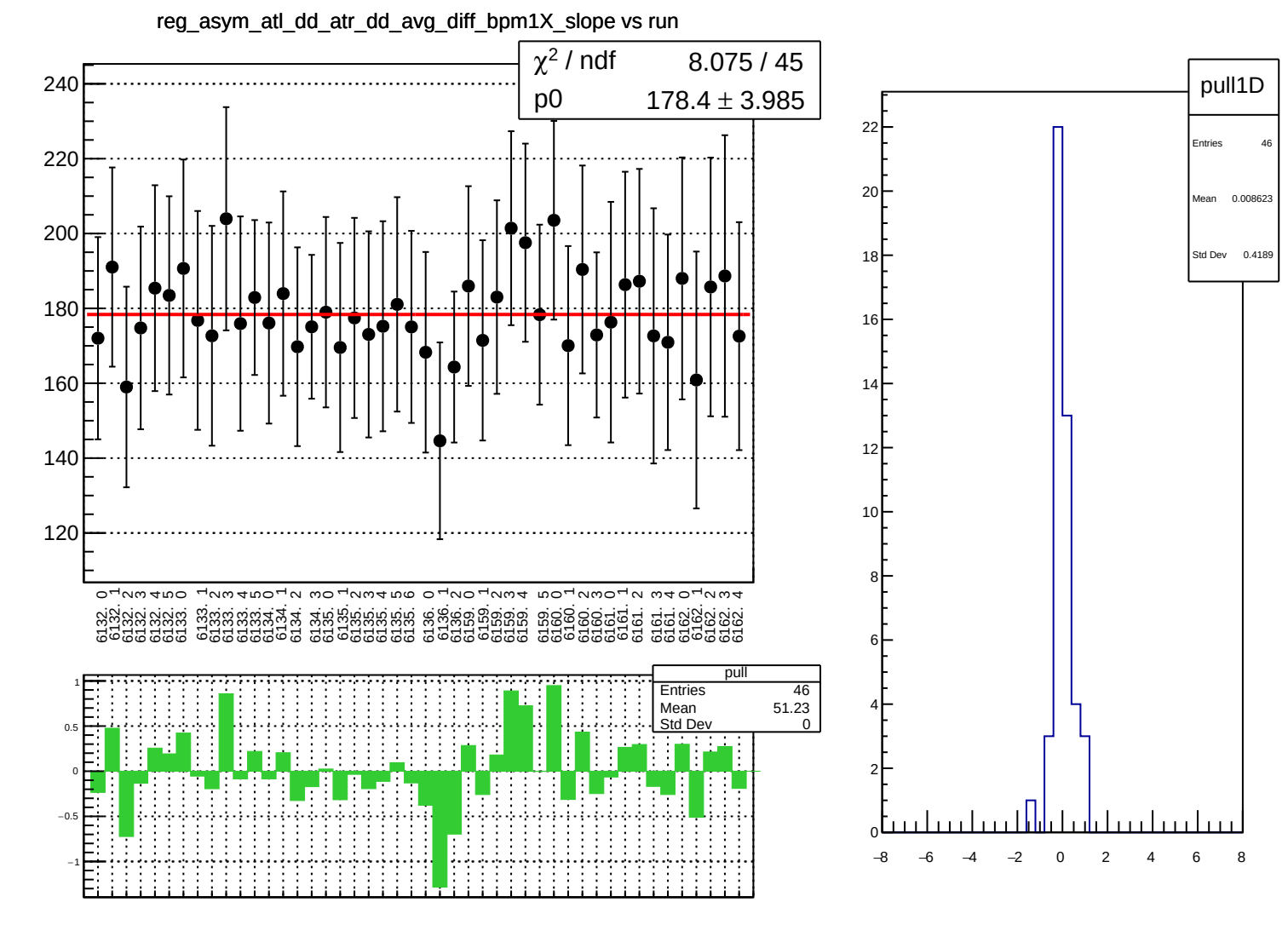

pull1D
Entries 46
Mean −0.006994
Std Dev 0.5753

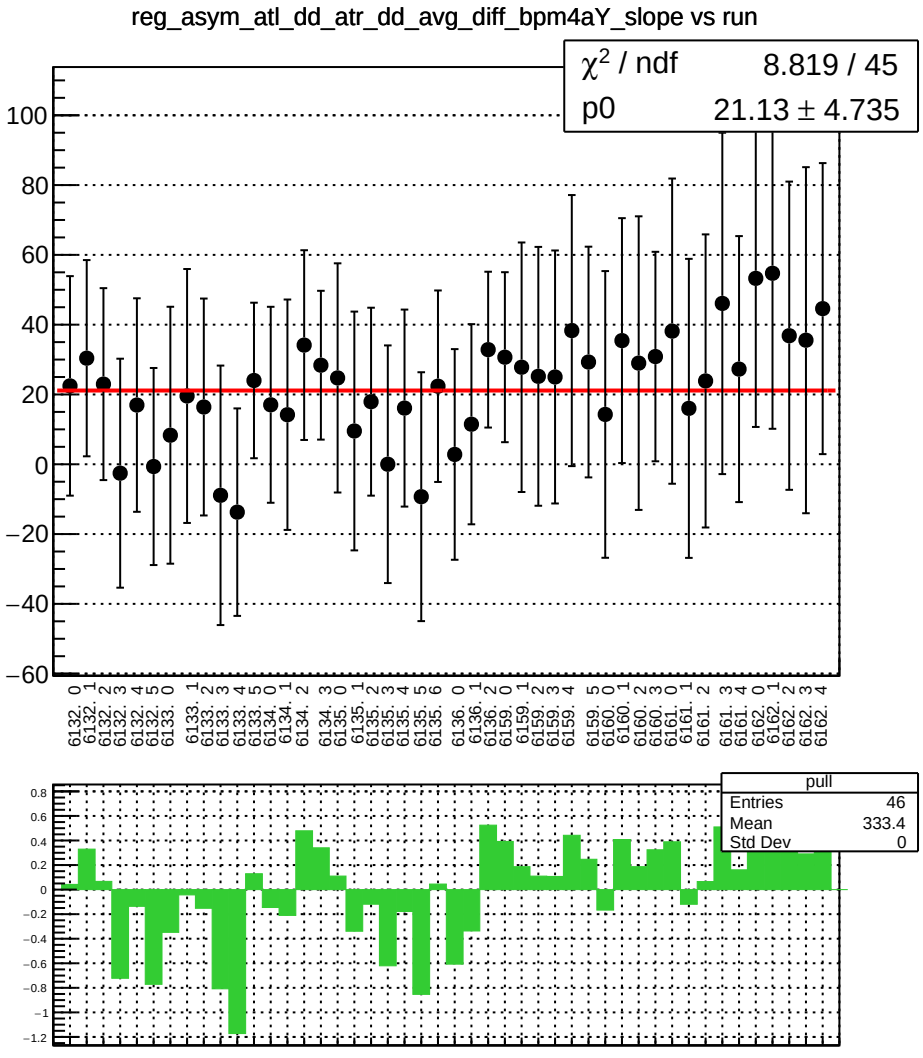

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.62 / 45
p0 −75.3 ± 4.363
pull
Entries 46
Mean −98.87
Std Dev 0

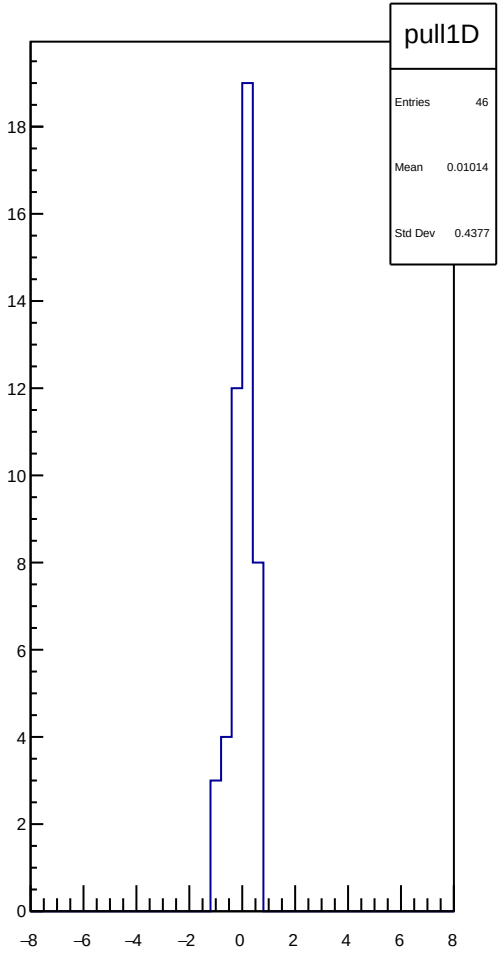

pull1D
Entries 46
Mean 0.01268
Std Dev 0.5236

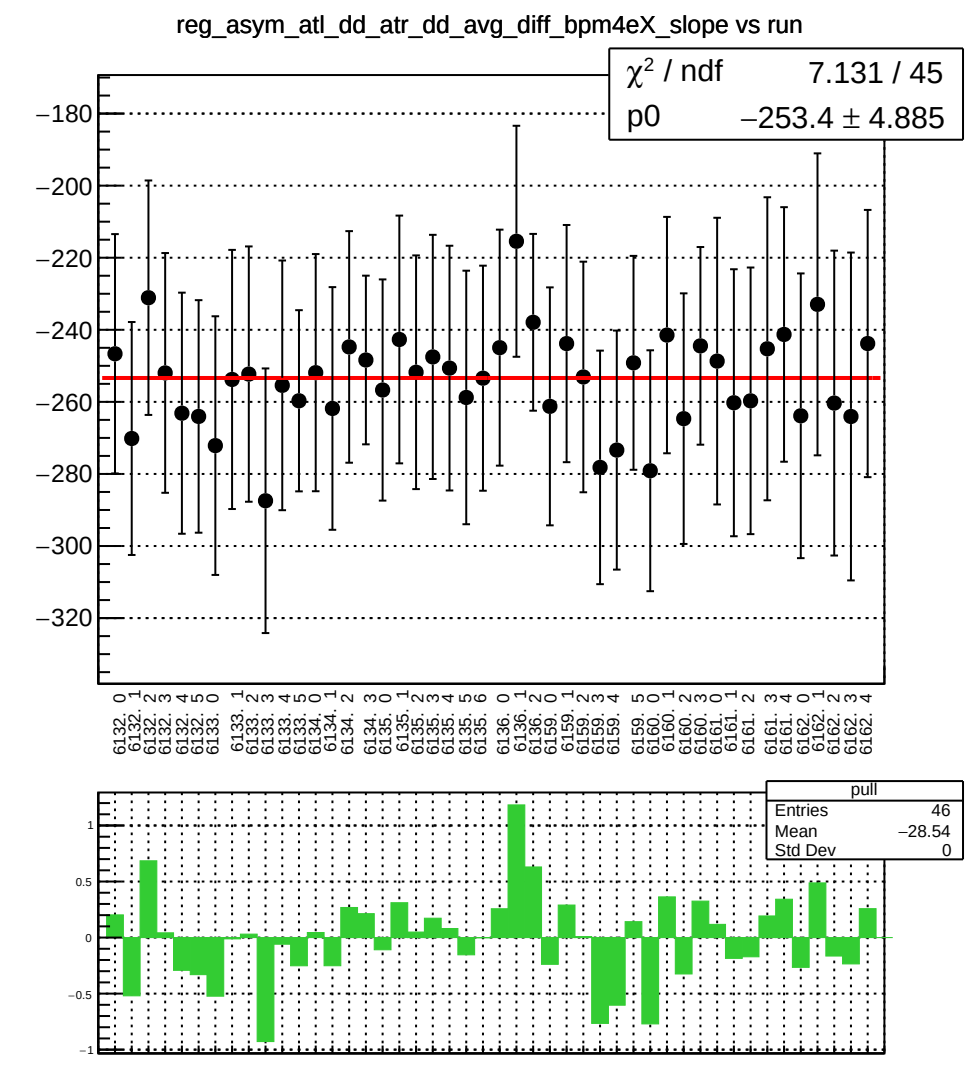

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 53.62 / 45
p0 81.29 ± 0.3413
pull
Entries 46
Mean 226.9
Std Dev 0

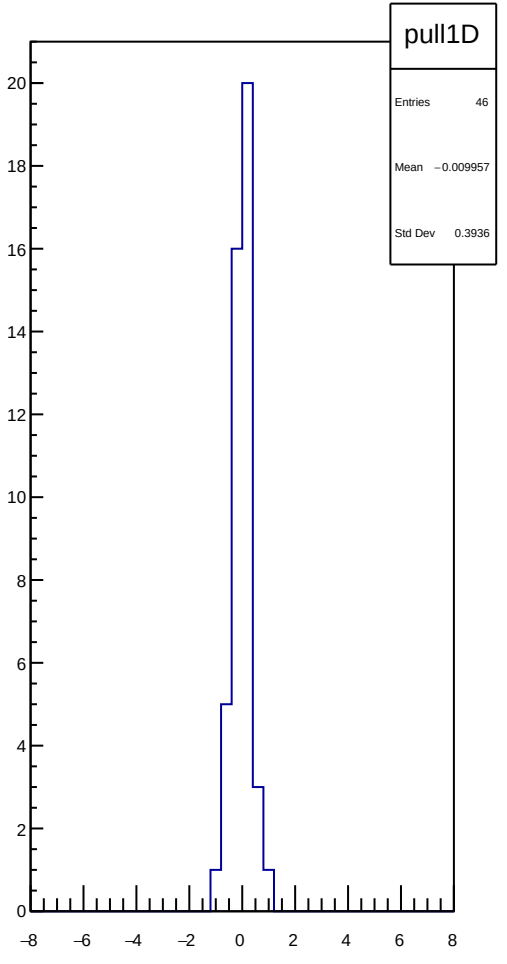

pull1D
Entries 46
Mean −0.05337
Std Dev 1.078

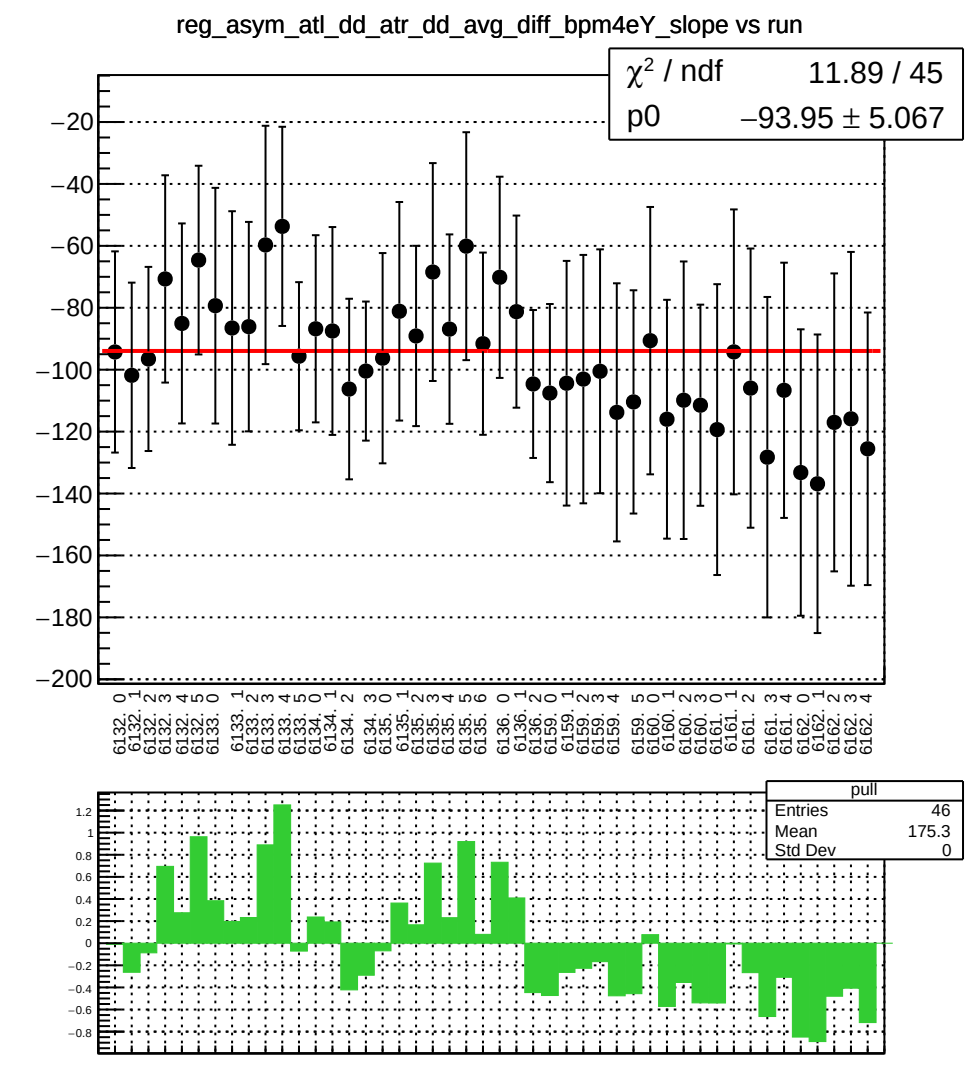

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 8.075 / 45
p0 178.4 ± 3.985
240
220
200
180
160
140
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 51.23
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean 0.008623
Std Dev 0.4189
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

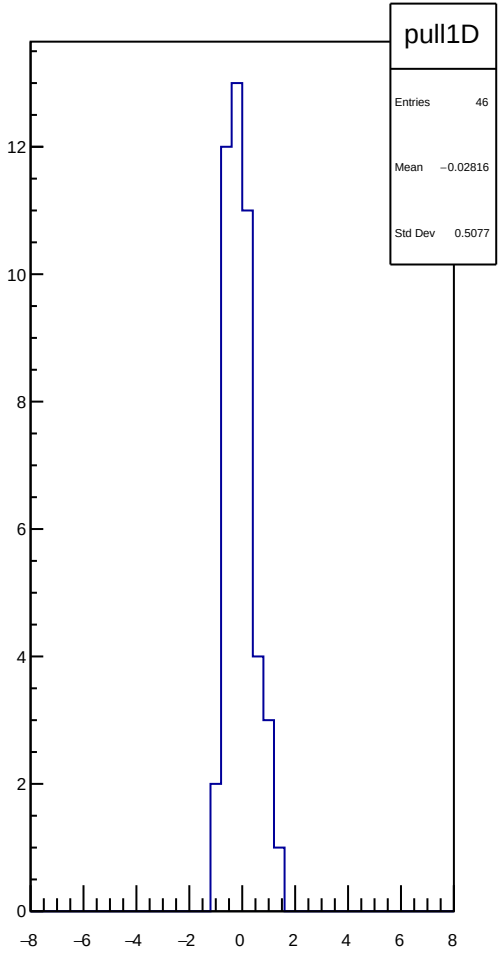

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.819 / 45
p0 21.13 ± 4.735
pull
Entries 46
Mean 333.4
Std Dev 0

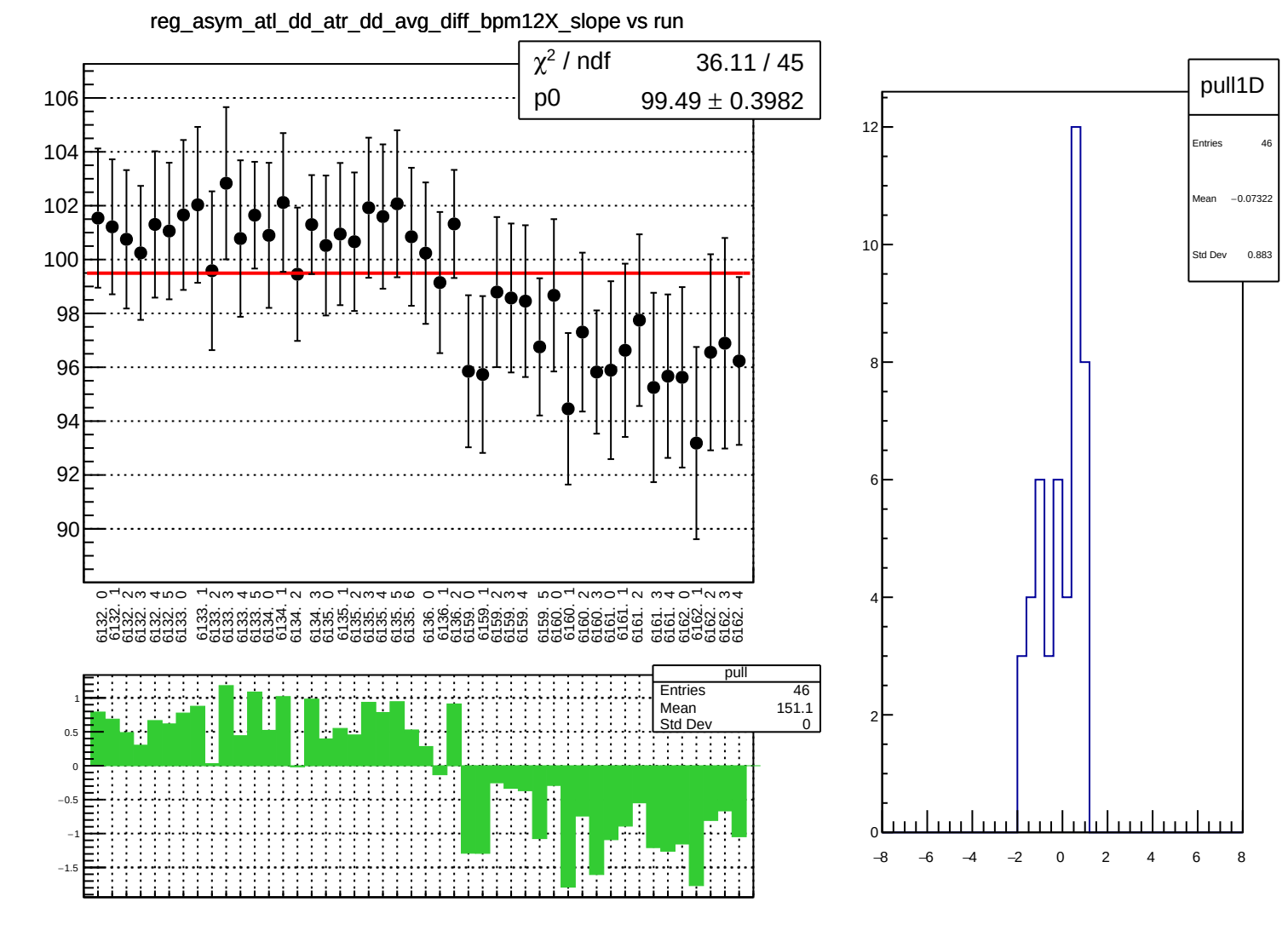

pull1D
Entries 46
Mean 0.01014
Std Dev 0.4377

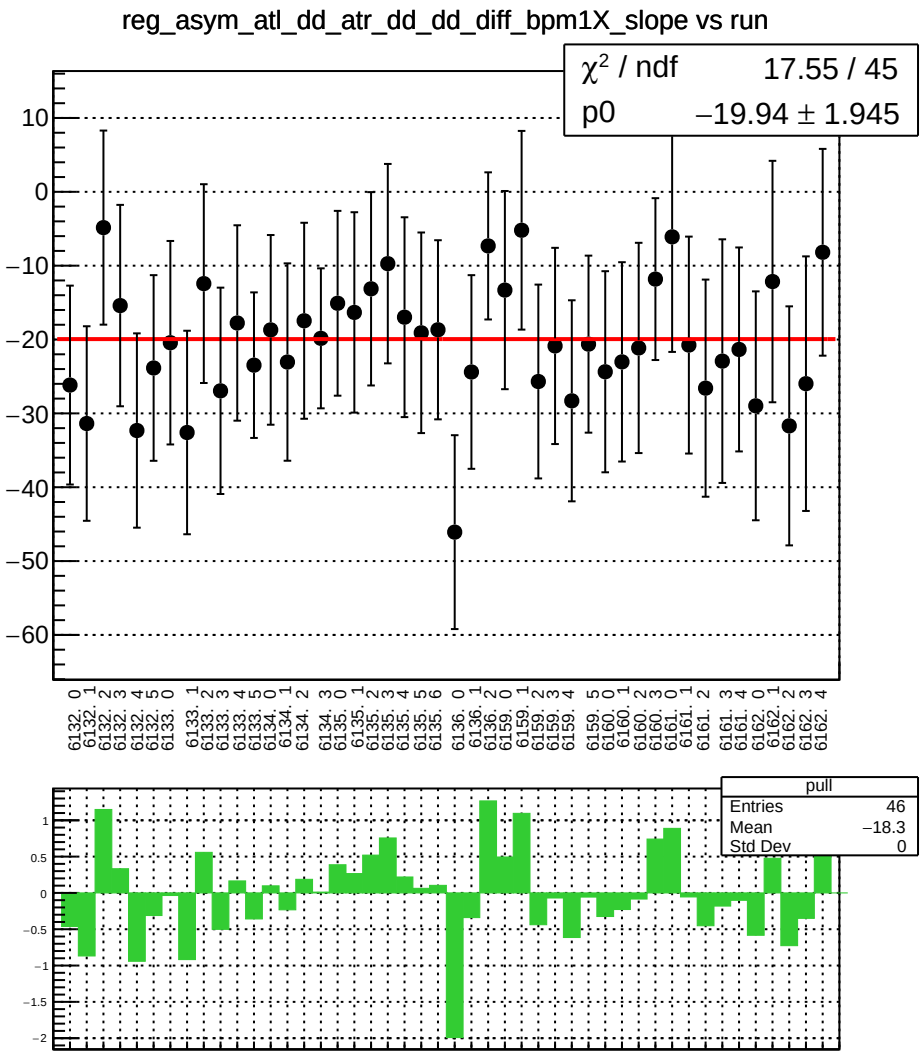

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.131 / 45
p0 −253.4 ± 4.885
−180
−200
−220
−240
−260
−280
−300
−320
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −28.54
Std Dev 0
1
0.5
0
−0.5
−1

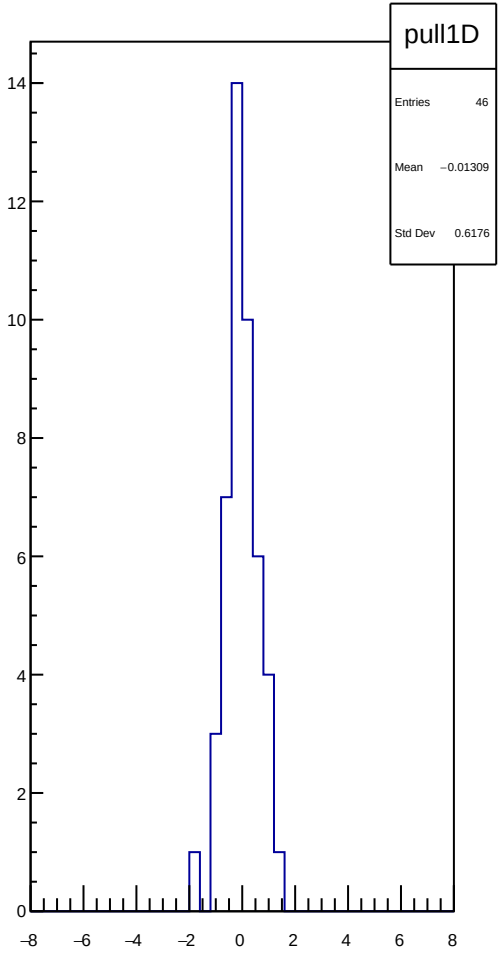

pull1D
Entries 46
Mean −0.009957
Std Dev 0.3936
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

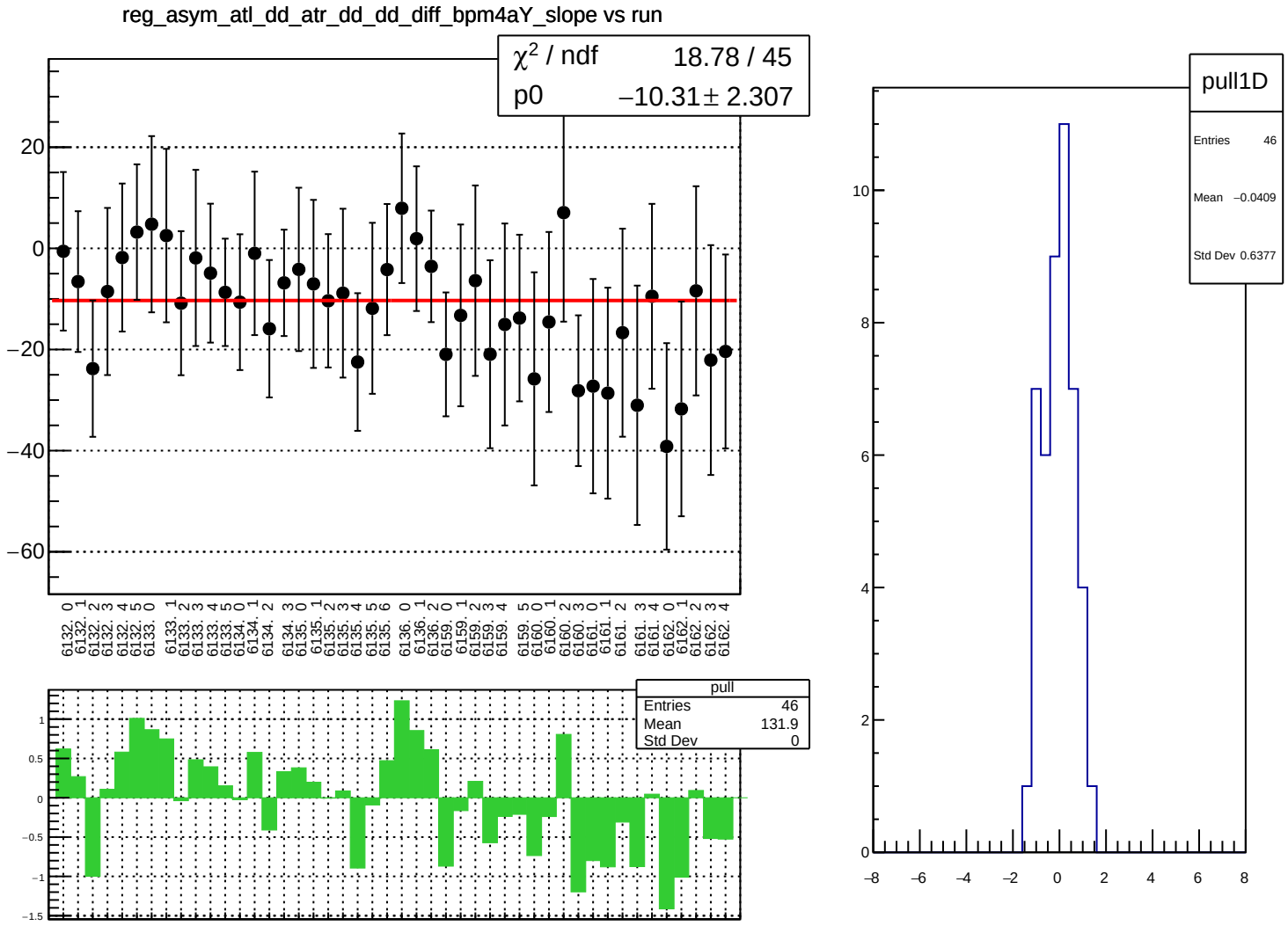

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.89 / 45
p0 −93.95 ± 5.067
pull
Entries 46
Mean 175.3
Std Dev 0

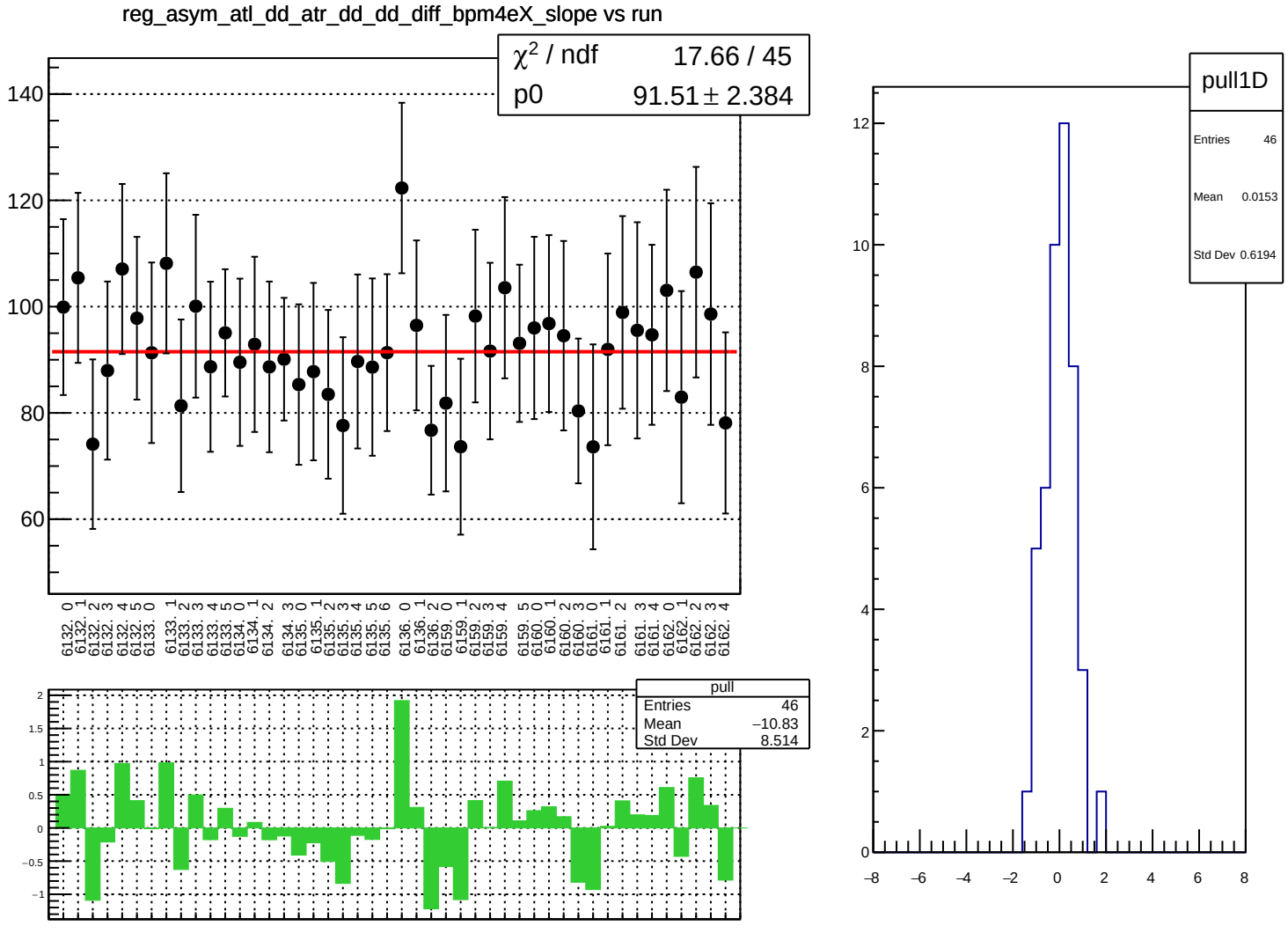

pull1D
Entries 46
Mean −0.02816
Std Dev 0.5077

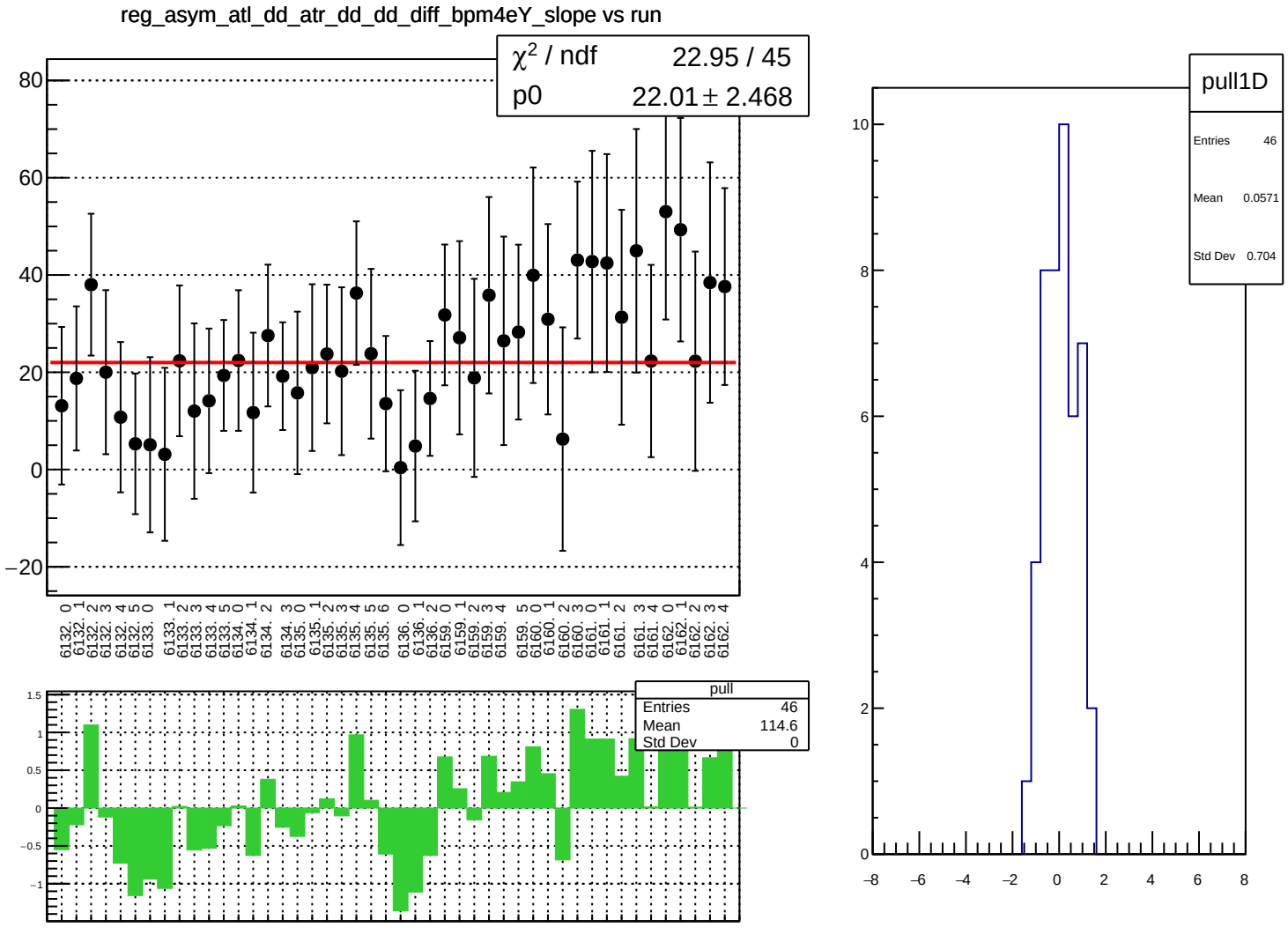

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 36.11 / 45
p0 99.49 ± 0.3982
pull
Entries 46
Mean 151.1
Std Dev 0
pull1D
Entries 46
Mean −0.07322
Std Dev 0.883

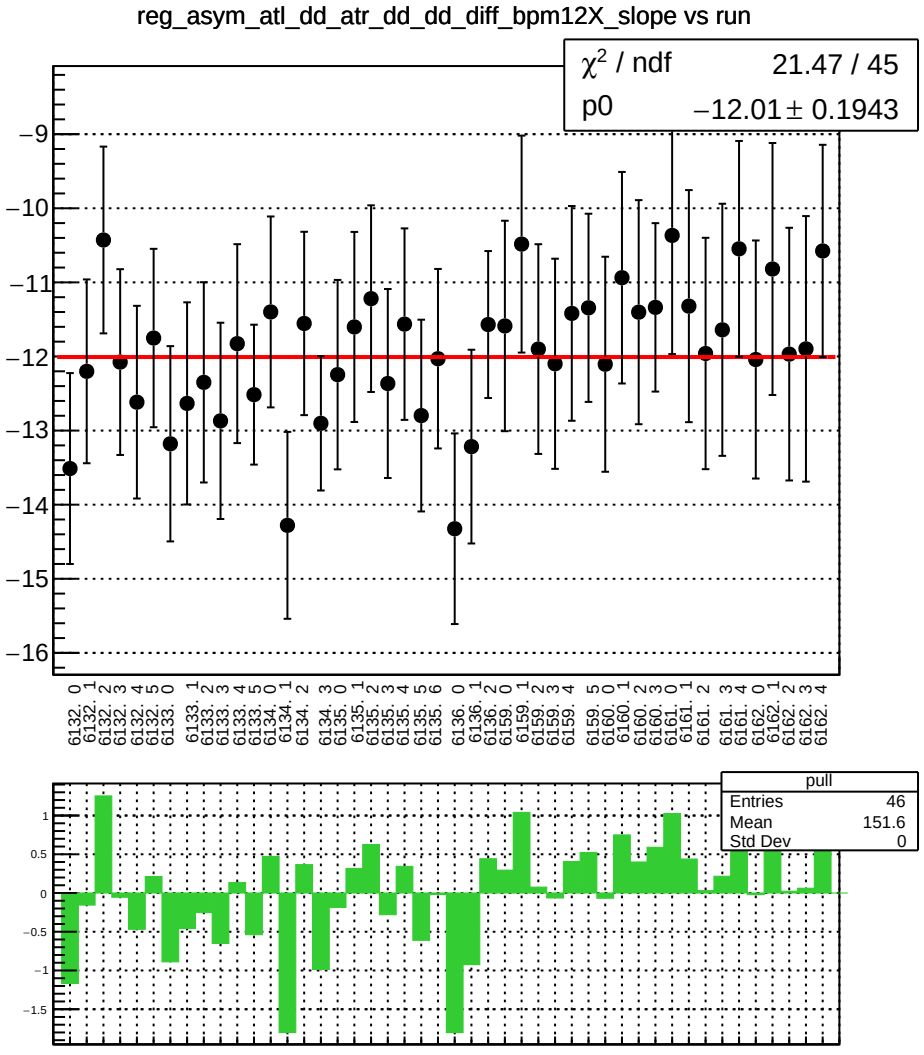

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 17.55 / 45
p0 −19.94 ± 1.945
pull
Entries 46
Mean −18.3
Std Dev 0

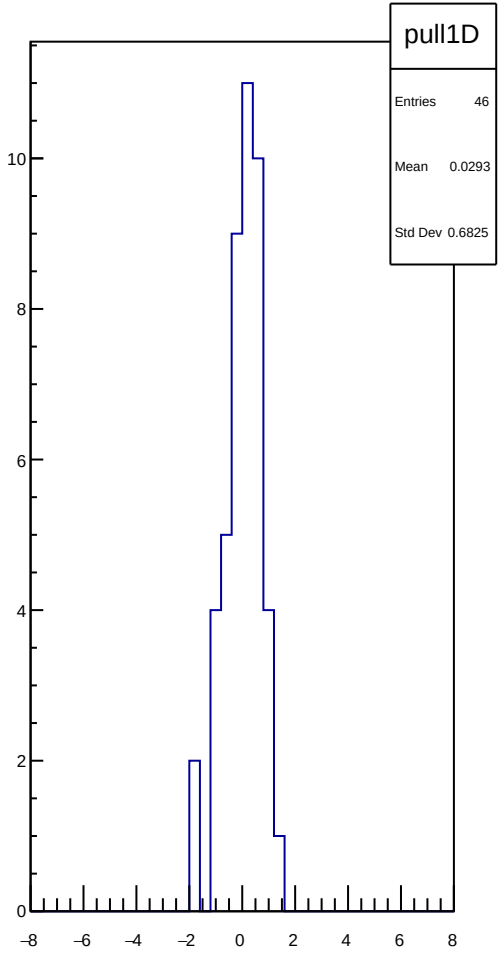

pull1D
Entries 46
Mean −0.01309
Std Dev 0.6176

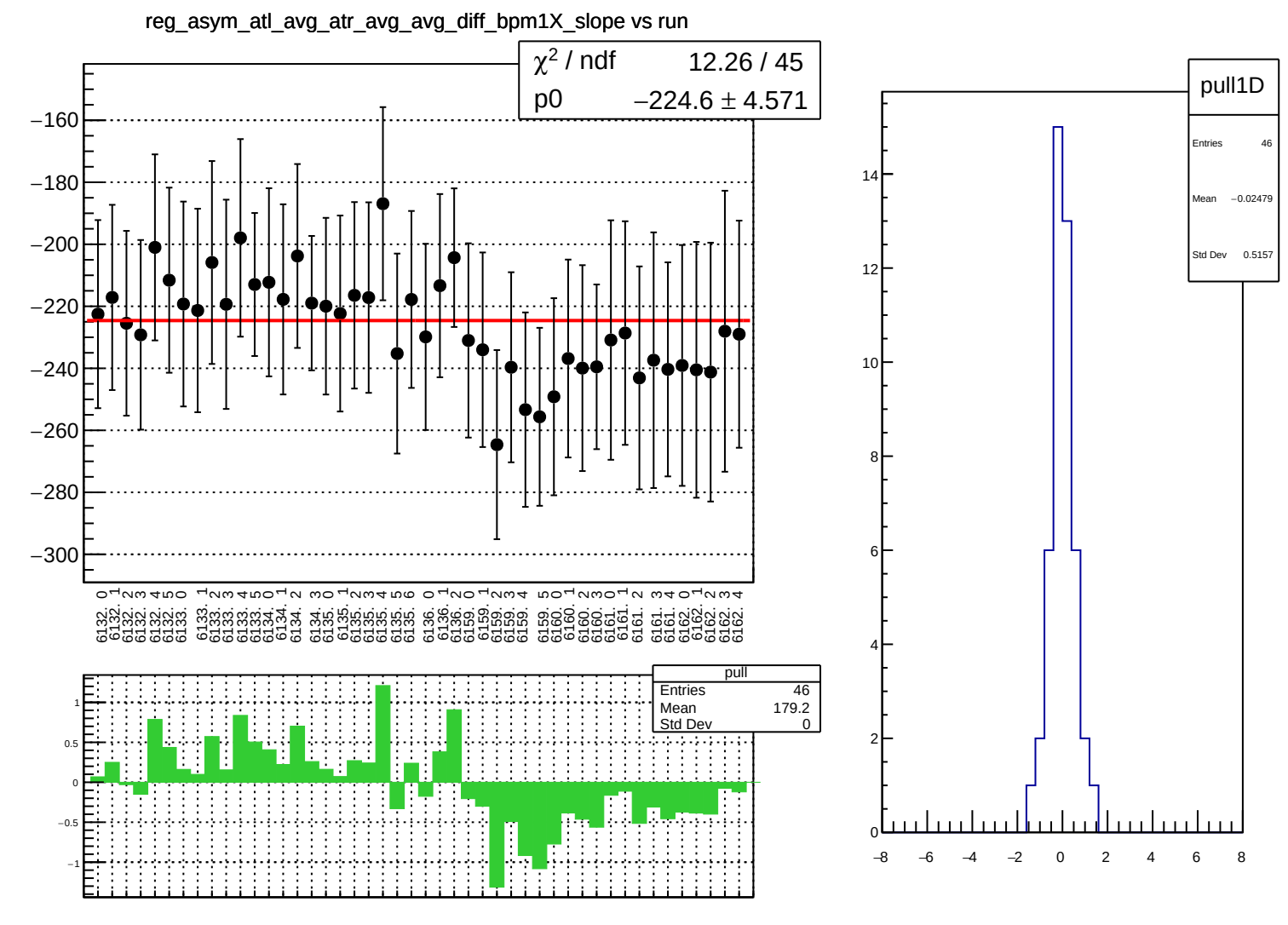

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.78 / 45
p0 −10.31 ± 2.307
pull
Entries 46
Mean 131.9
Std Dev 0
pull1D
Entries 46
Mean −0.0409
Std Dev 0.6377

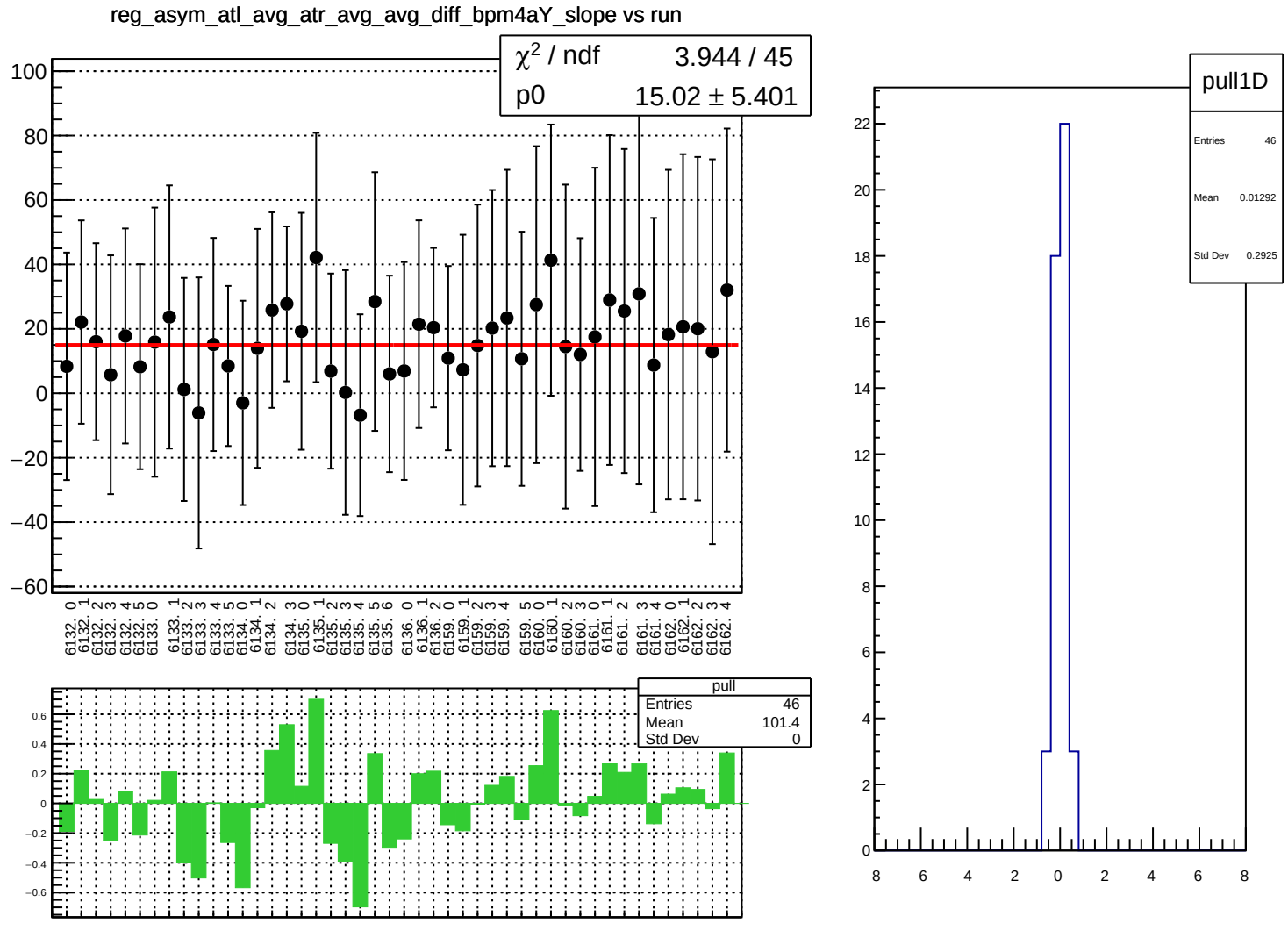

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.66 / 45
p0 91.51 ± 2.384
140
120
100
80
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −10.83
Std Dev 8.514
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean 0.0153
Std Dev 0.6194
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

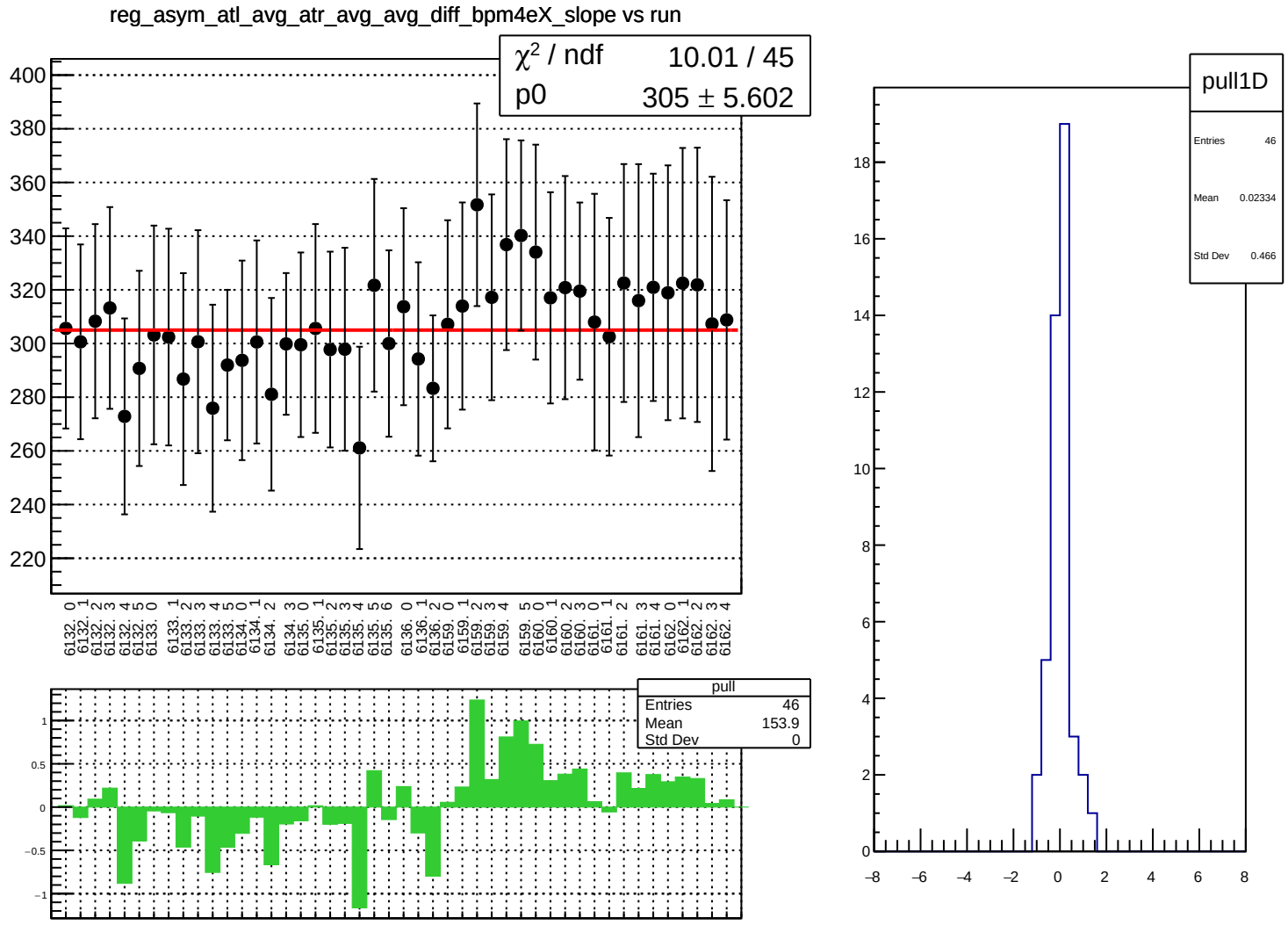

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.95 / 45
p0 22.01 ± 2.468
pull
Entries 46
Mean 114.6
Std Dev 0
pull1D
Entries 46
Mean 0.0571
Std Dev 0.704

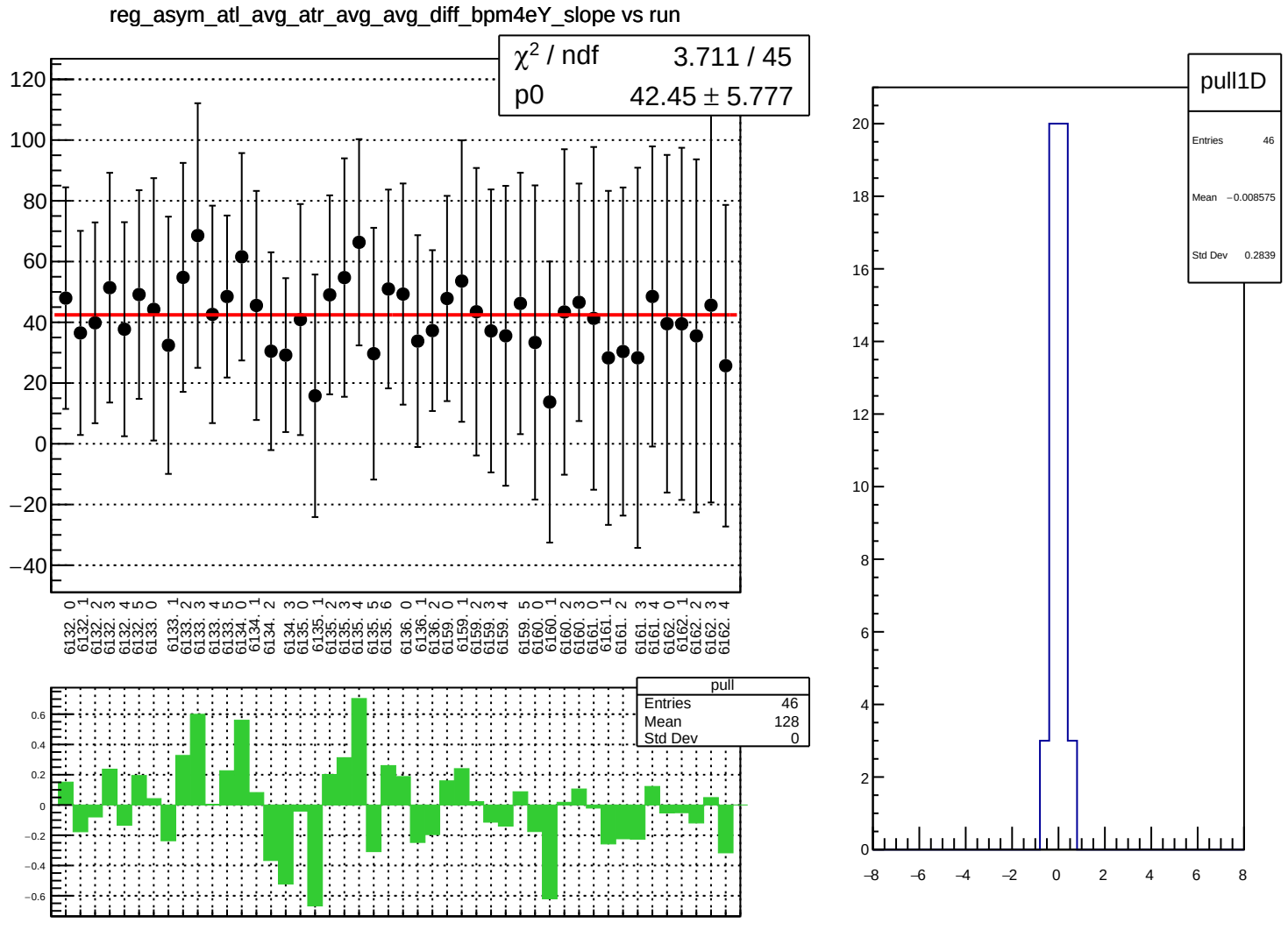

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 21.47 / 45
p0 −12.01 ± 0.1943
pull
Entries 46
Mean 151.6
Std Dev 0

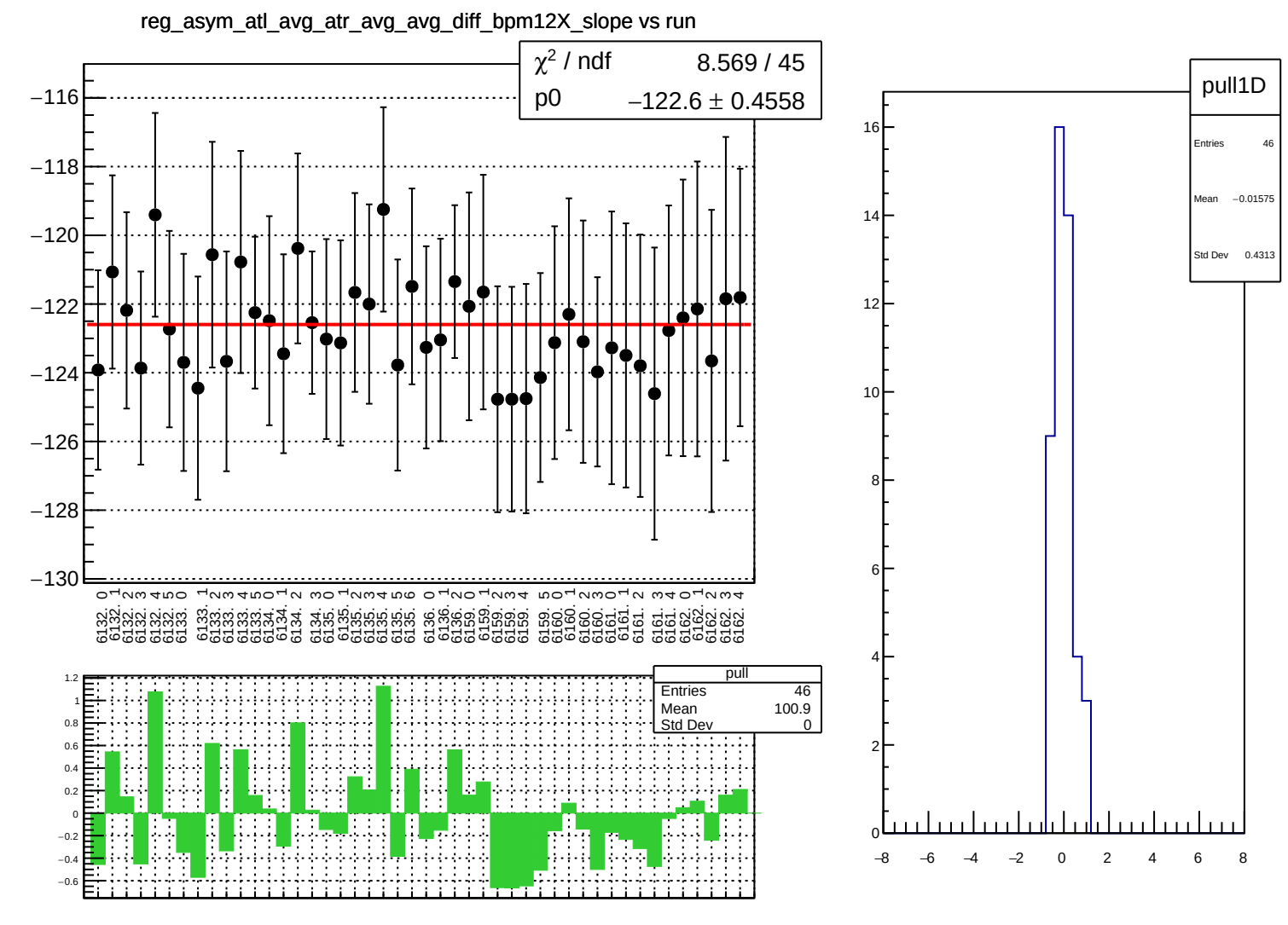

pull1D
Entries 46
Mean 0.0293
Std Dev 0.6825

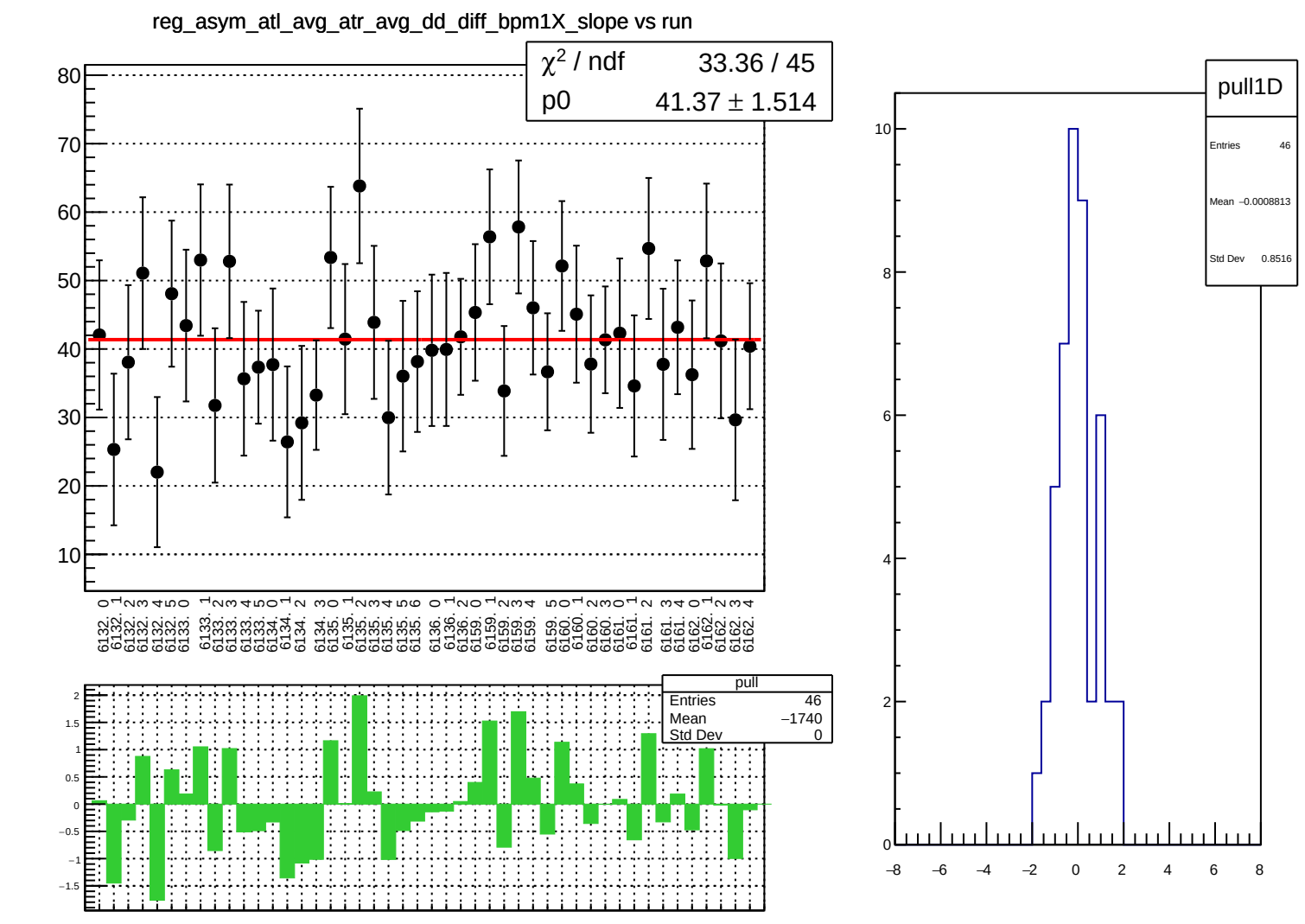

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 12.26 / 45
p0 −224.6 ± 4.571
pull
Entries 46
Mean 179.2
Std Dev 0
pull1D
Entries 46
Mean −0.02479
Std Dev 0.5157

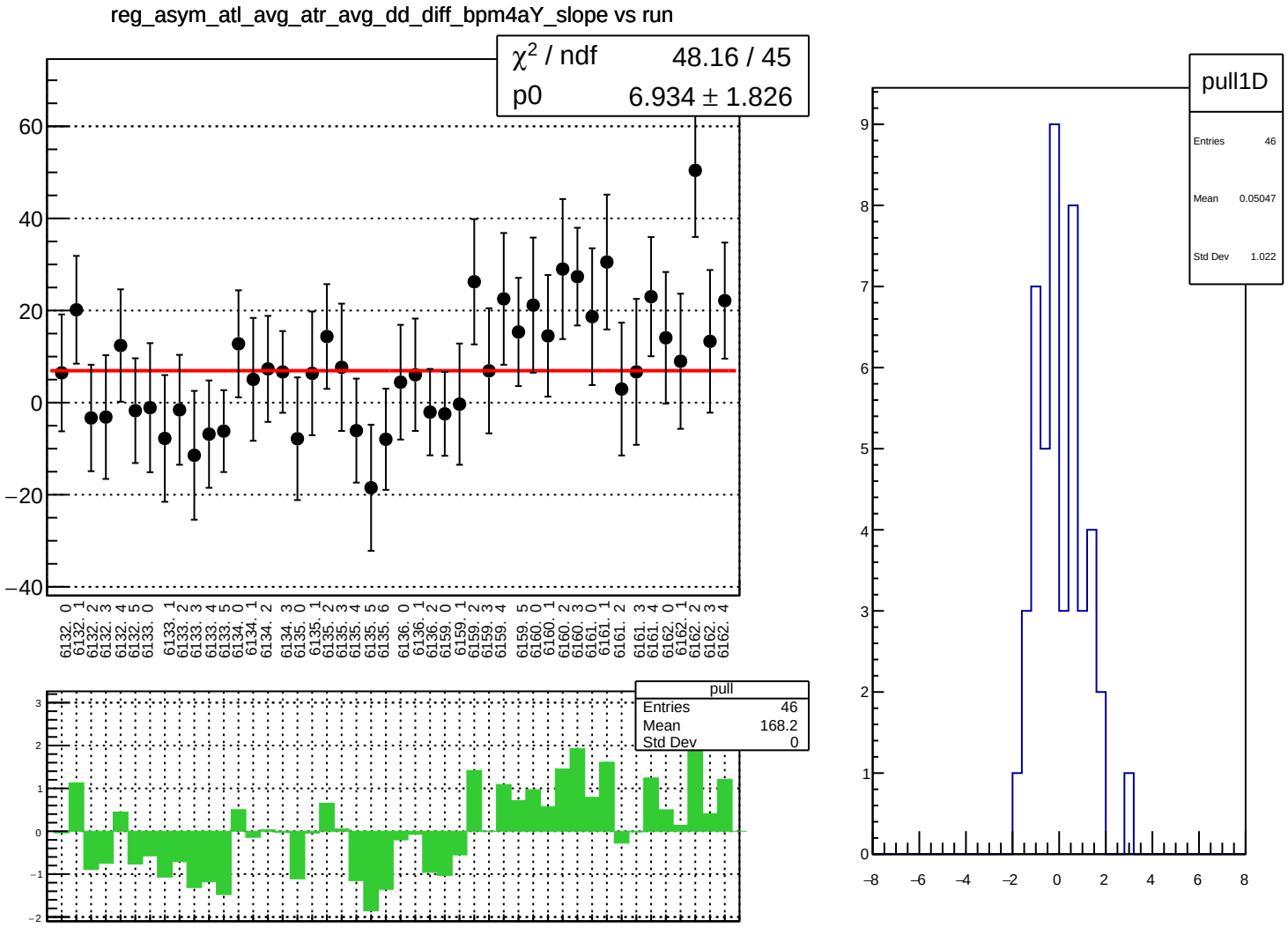

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.944 / 45
p0 15.02 ± 5.401
pull
Entries 46
Mean 101.4
Std Dev 0
pull1D
Entries 46
Mean 0.01292
Std Dev 0.2925

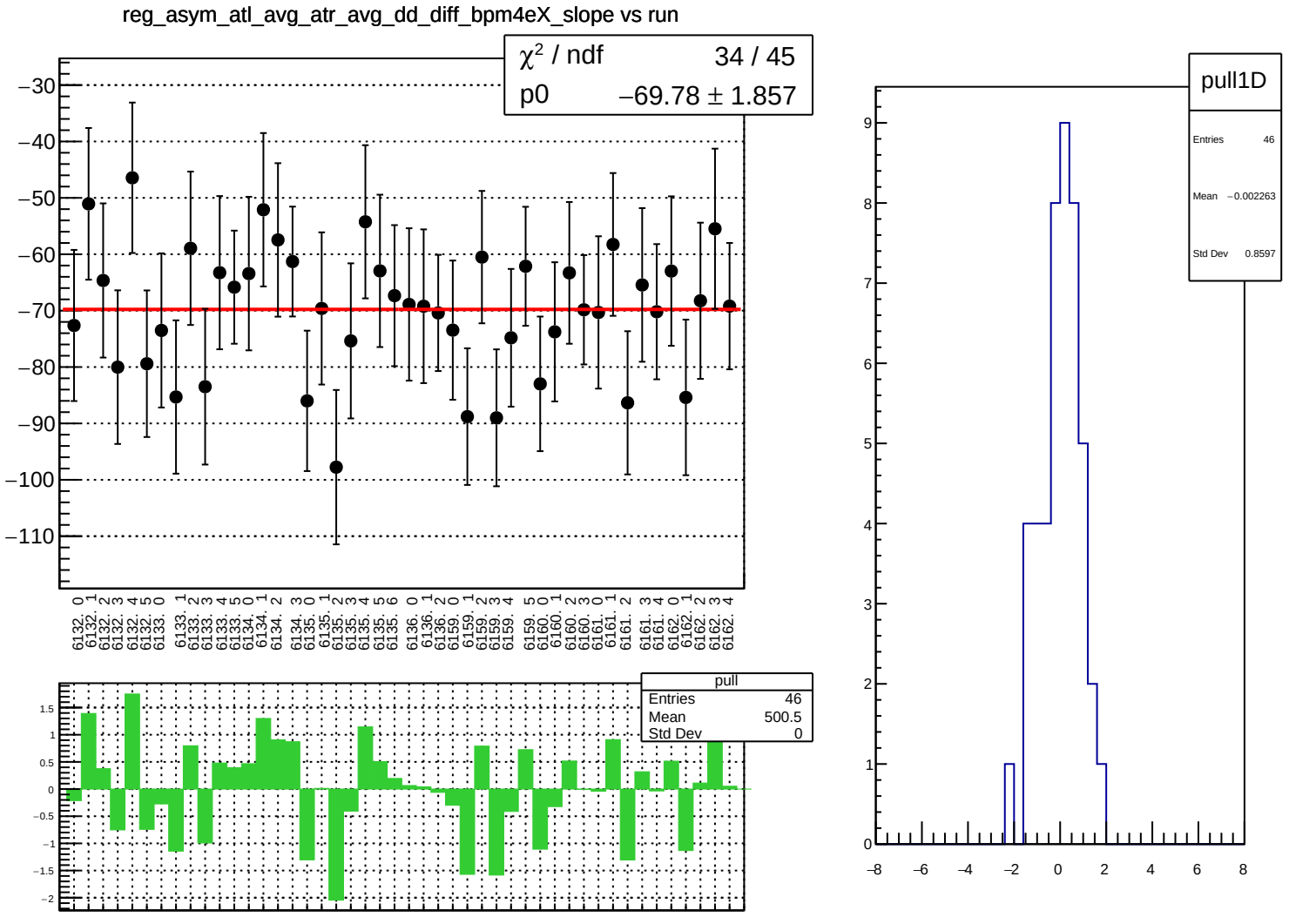

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.01 / 45
p0 305 ± 5.602
pull
Entries 46
Mean 153.9
Std Dev 0
pull1D
Entries 46
Mean 0.02334
Std Dev 0.466

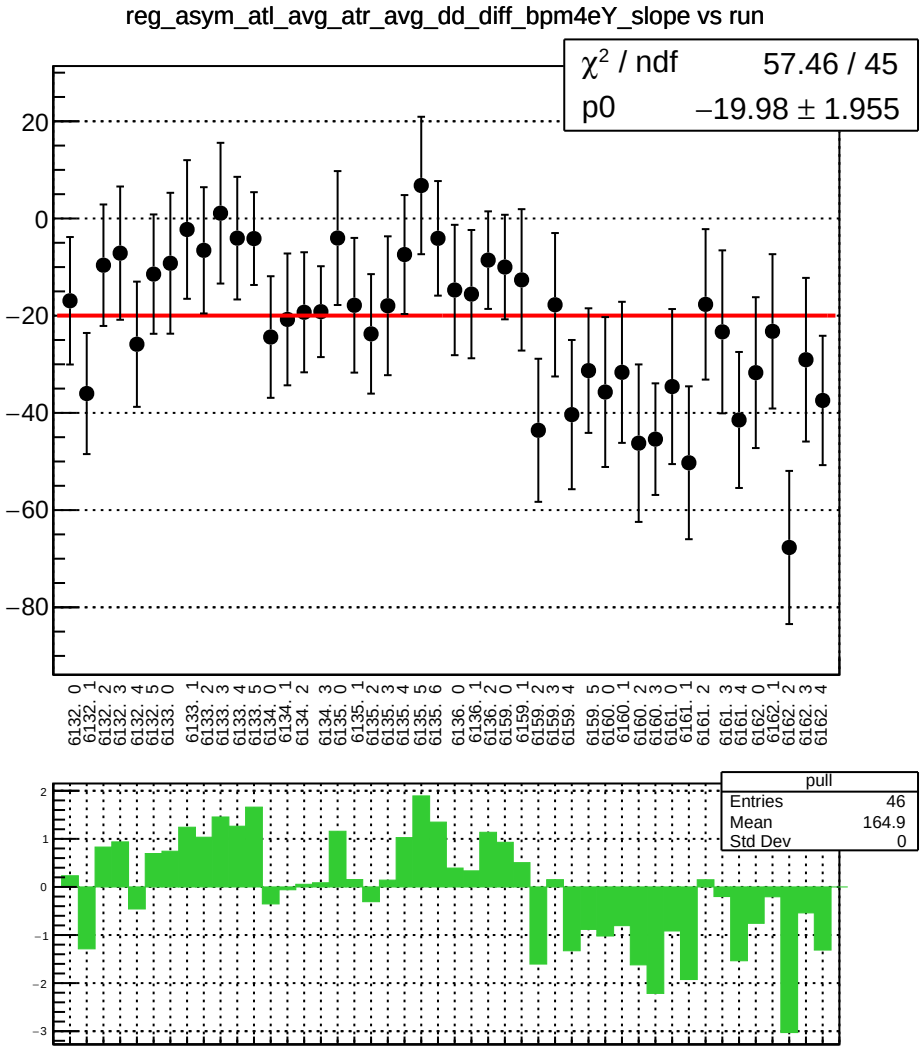

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.711 / 45
p0 42.45 ± 5.777
pull
Entries 46
Mean 128
Std Dev 0
pull1D
Entries 46
Mean −0.008575
Std Dev 0.2839

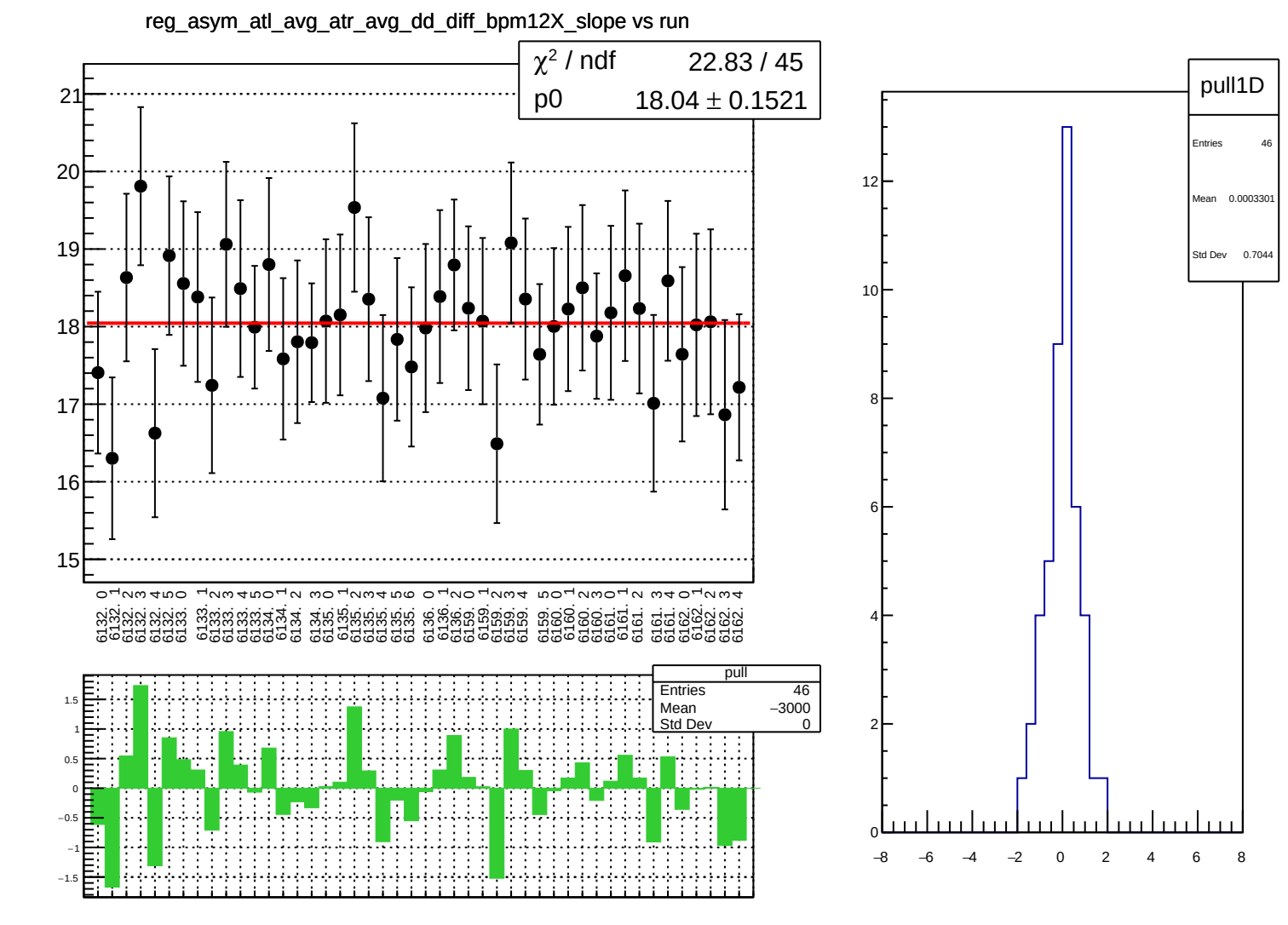

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 8.569 / 45
p0 −122.6 ± 0.4558
pull
Entries 46
Mean 100.9
Std Dev 0
pull1D
Entries 46
Mean −0.01575
Std Dev 0.4313

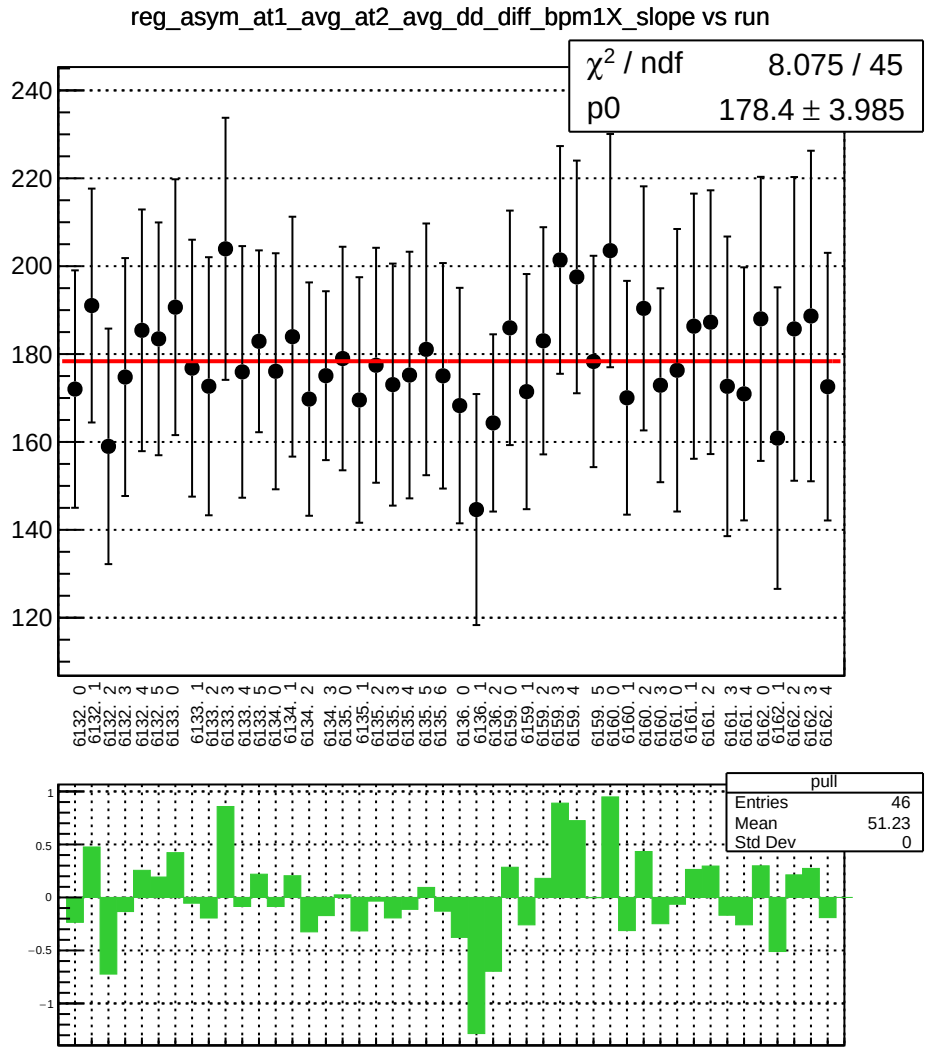

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 33.36 / 45
p0 41.37 ± 1.514
pull
Entries 46
Mean −1740
Std Dev 0
pull1D
Entries 46
Mean −0.0008813
Std Dev 0.8516


reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 48.16 / 45
p0 6.934 ± 1.826
pull
Entries 46
Mean 168.2
Std Dev 0
pull1D
Entries 46
Mean 0.05047
Std Dev 1.022


reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 34 / 45
p0 −69.78 ± 1.857
pull
Entries 46
Mean 500.5
Std Dev 0
pull1D
Entries 46
Mean −0.002263
Std Dev 0.8597


reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 57.46 / 45
p0 −19.98 ± 1.955
pull
Entries 46
Mean 164.9
Std Dev 0
pull1D
Entries 46
Mean −0.06096
Std Dev 1.116


reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 22.83 / 45
p0 18.04 ± 0.1521
pull
Entries 46
Mean −3000
Std Dev 0
pull1D
Entries 46
Mean 0.0003301
Std Dev 0.7044


reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 8.075 / 45
p0 178.4 ± 3.985
240
220
200
180
160
140
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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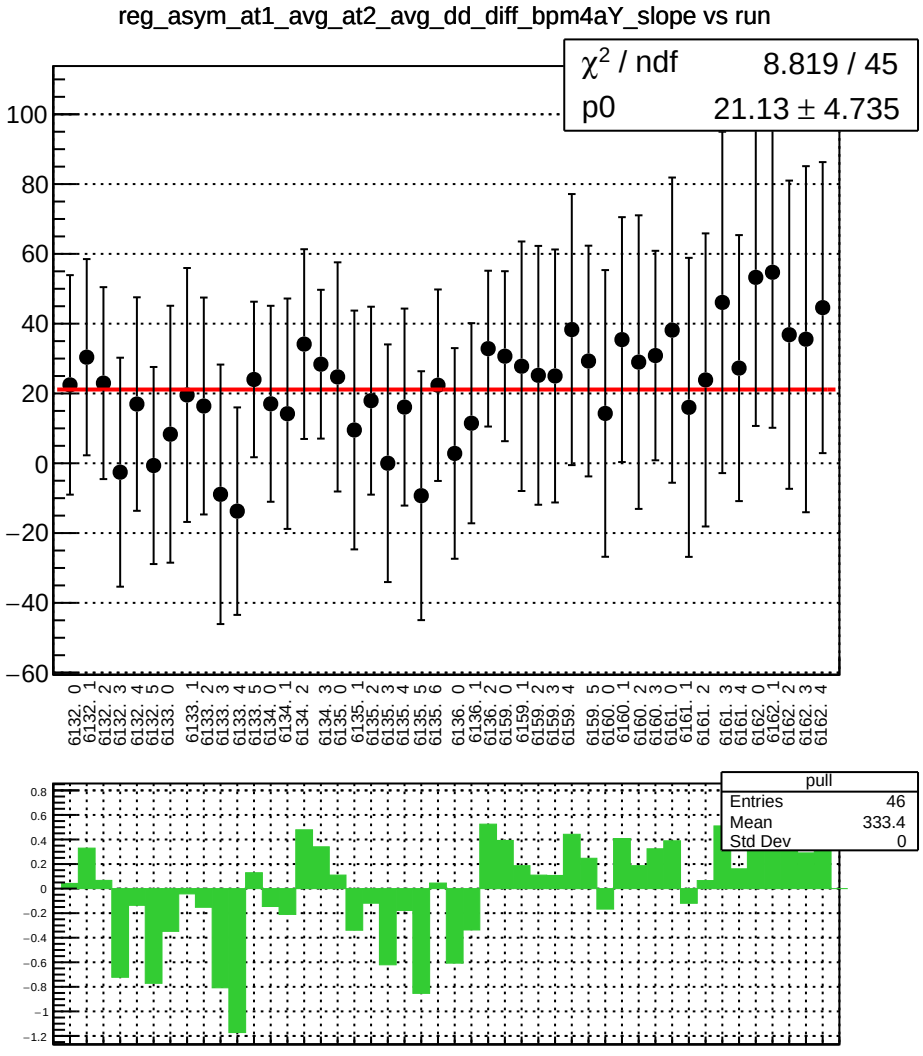
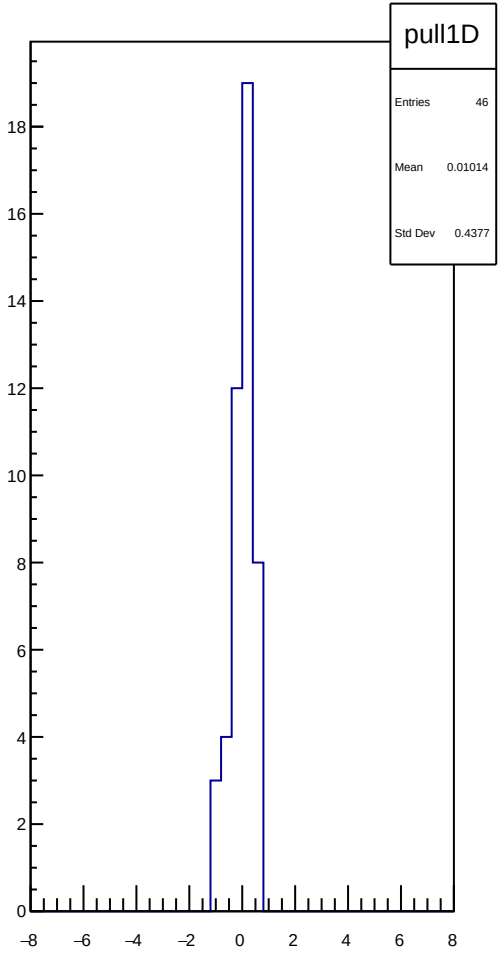
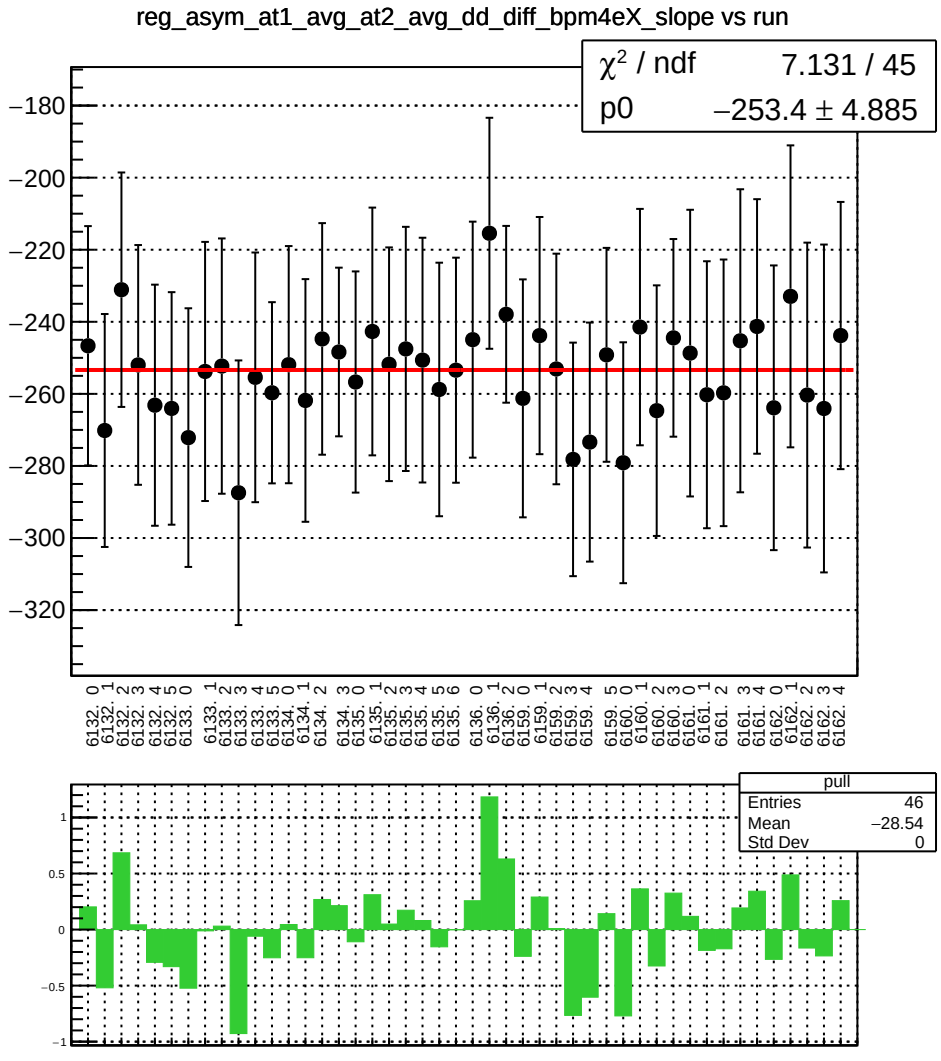
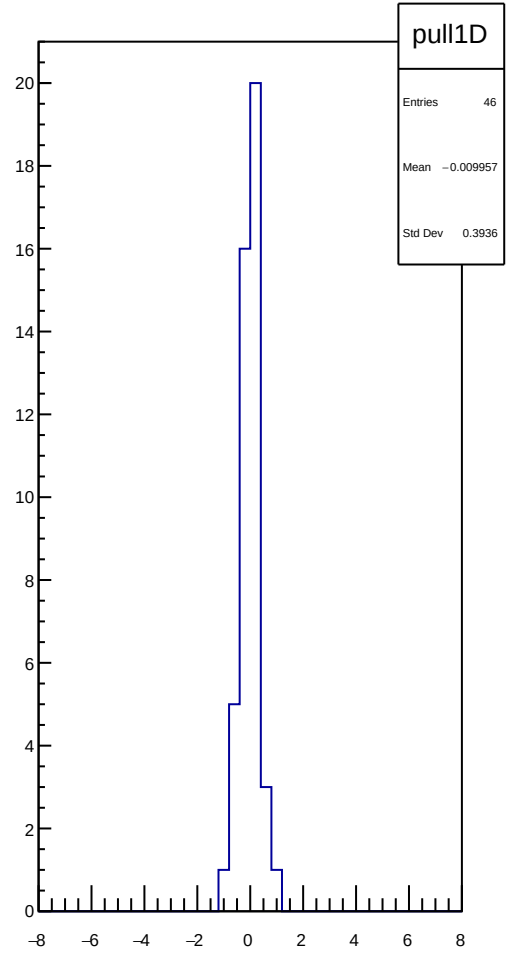
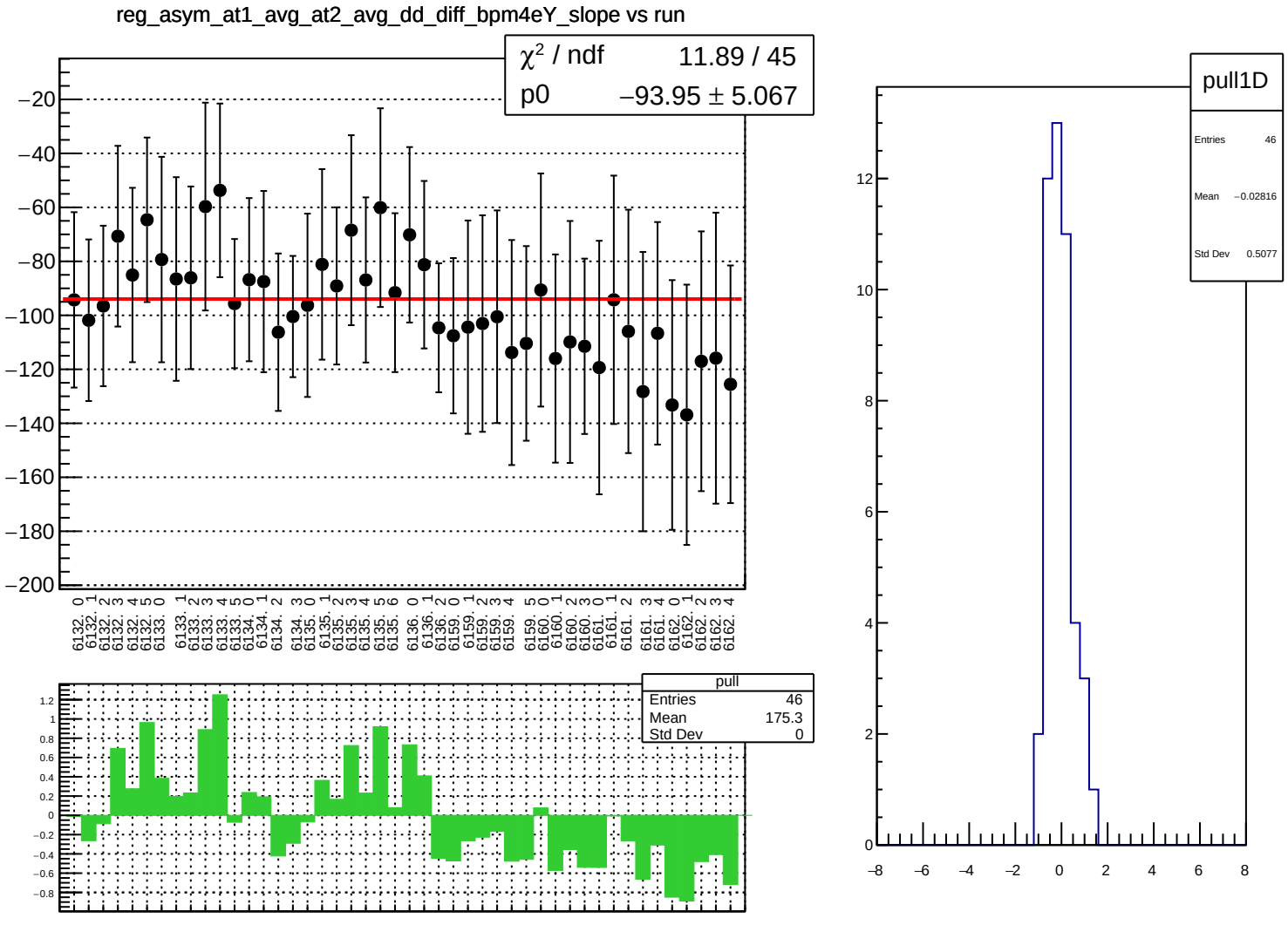
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 51.23
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean 0.008623
Std Dev 0.4189
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

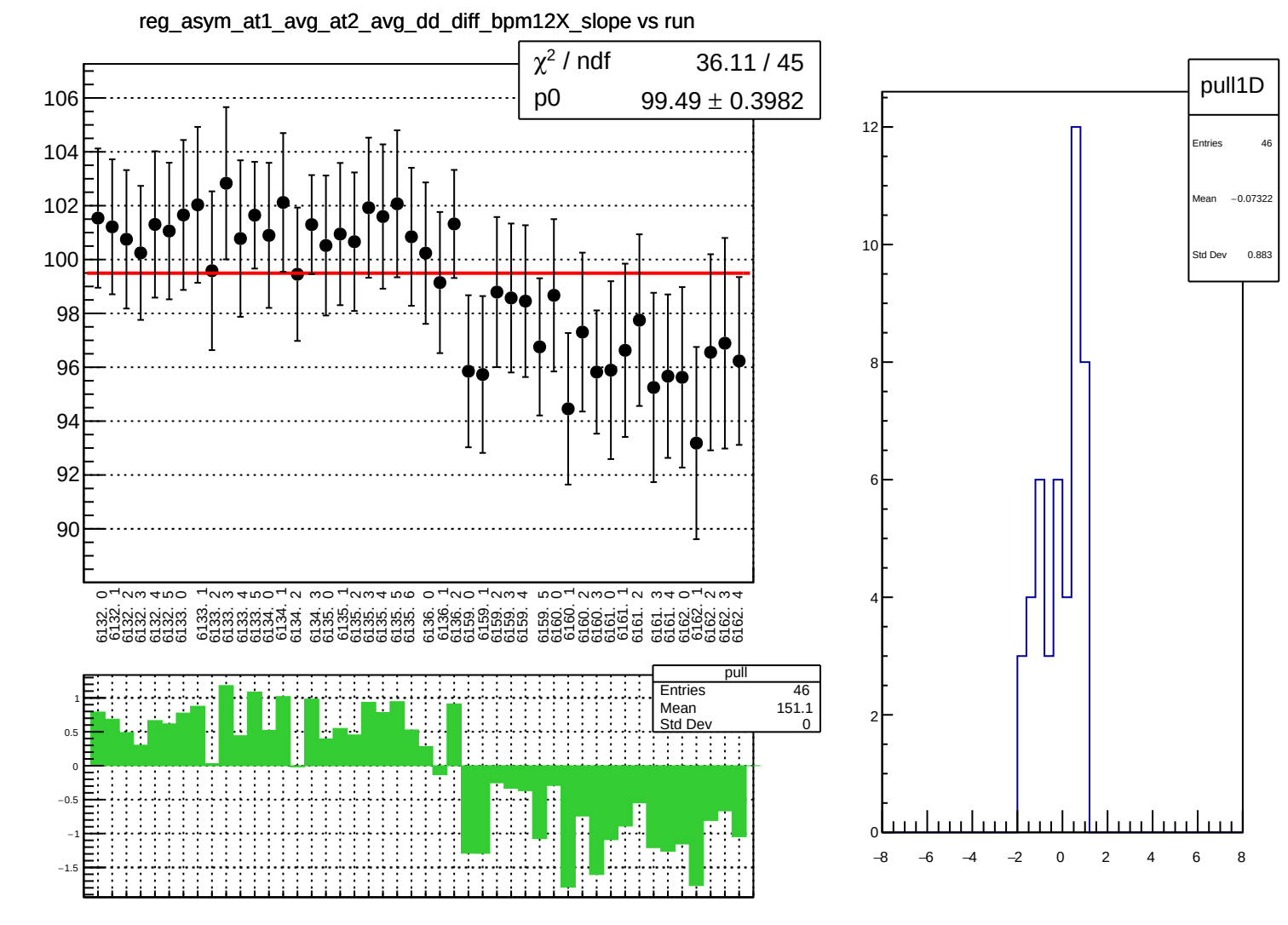

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.819 / 45
p0 21.13 ± 4.735
pull
Entries 46
Mean 333.4
Std Dev 0

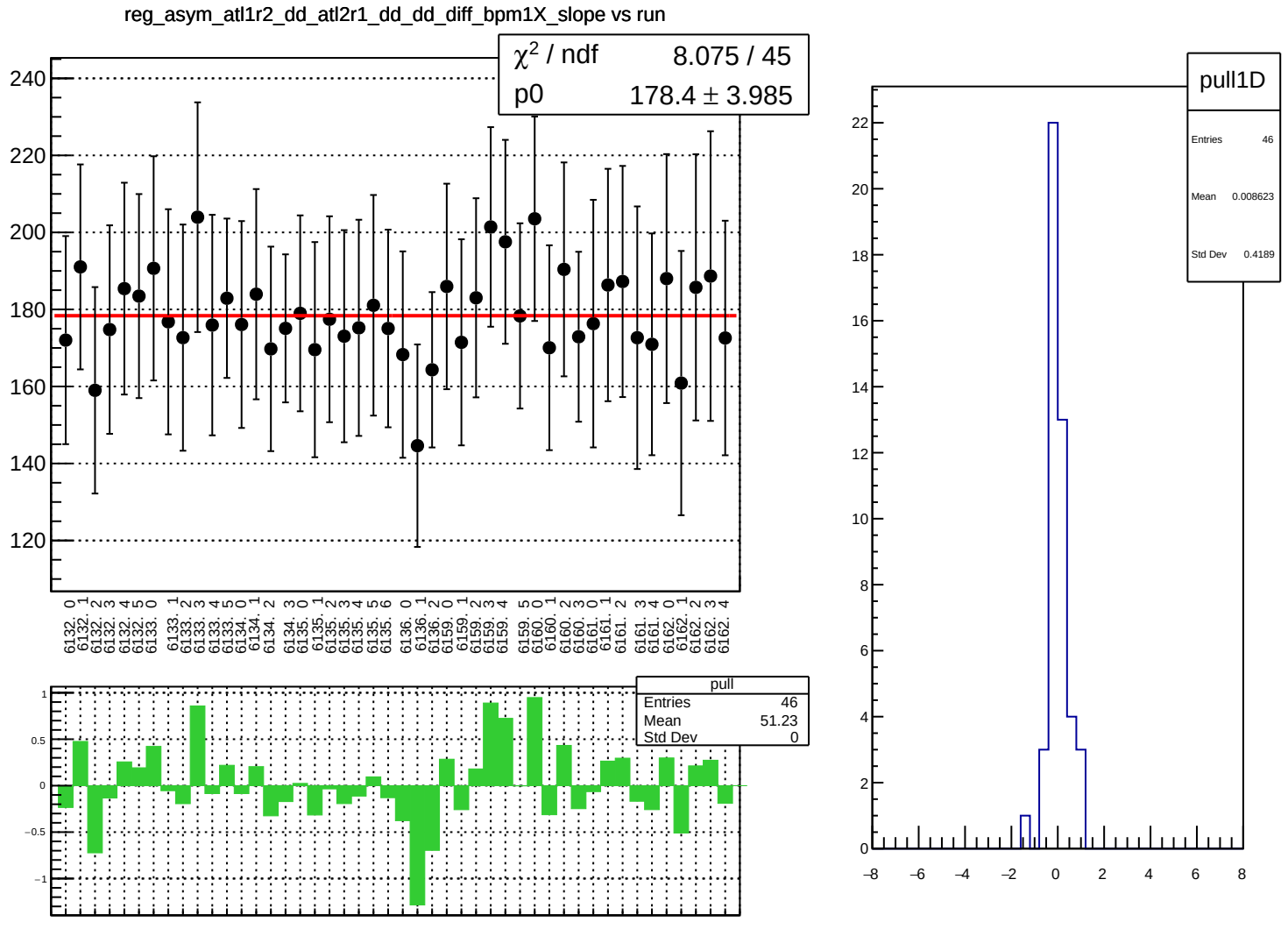

pull1D
Entries 46
Mean 0.01014
Std Dev 0.4377


reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.131 / 45
p0 −253.4 ± 4.885
pull
Entries 46
Mean −28.54
Std Dev 0


pull1D
Entries 46
Mean −0.009957
Std Dev 0.3936


reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.89 / 45
p0 −93.95 ± 5.067
pull
Entries 46
Mean 175.3
Std Dev 0
pull1D
Entries 46
Mean −0.02816
Std Dev 0.5077


reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 36.11 / 45
p0 99.49 ± 0.3982
pull
Entries 46
Mean 151.1
Std Dev 0
pull1D
Entries 46
Mean −0.07322
Std Dev 0.883


reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 8.075 / 45
p0 178.4 ± 3.985
240
220
200
180
160
140
120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
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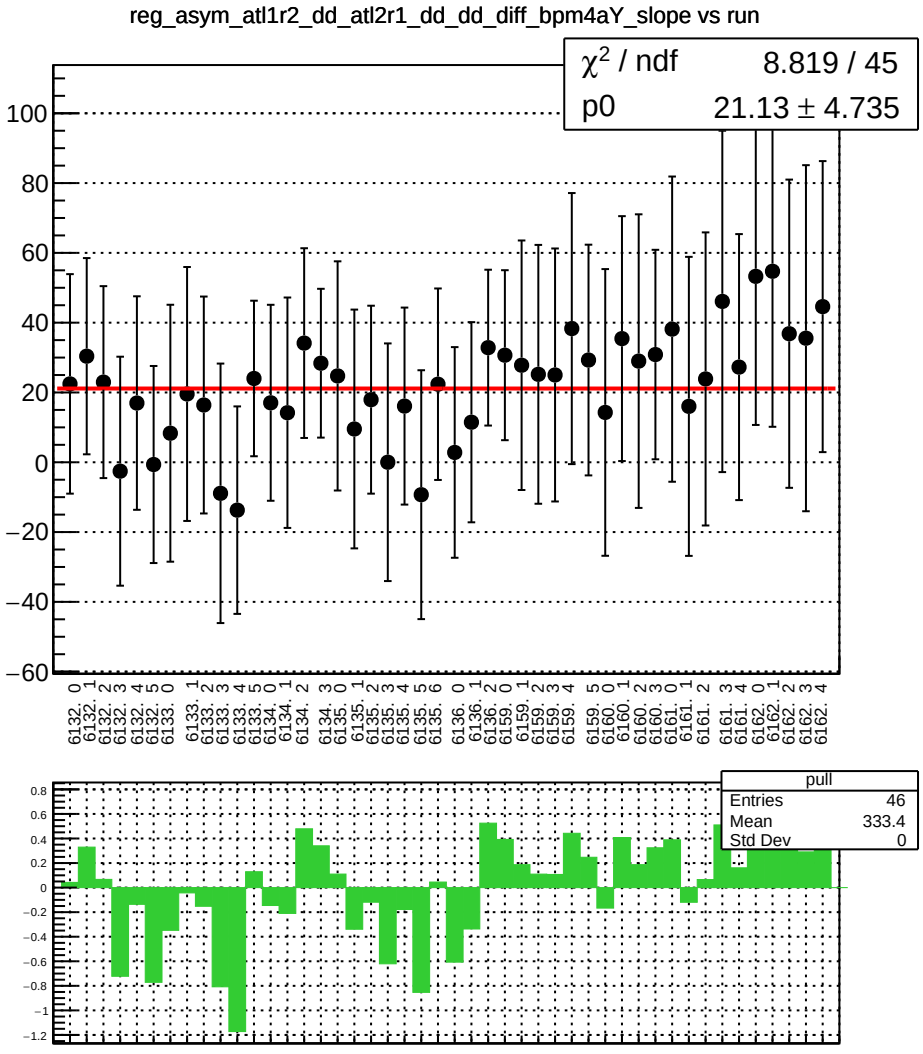
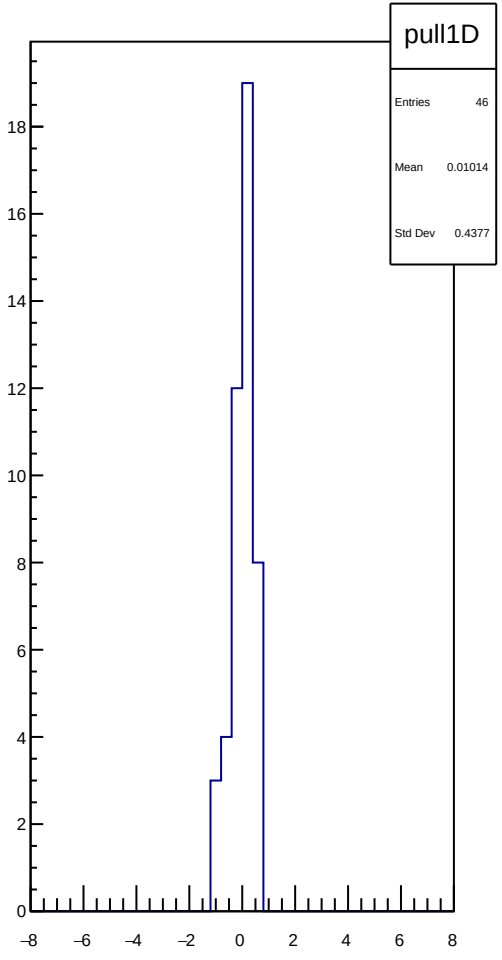
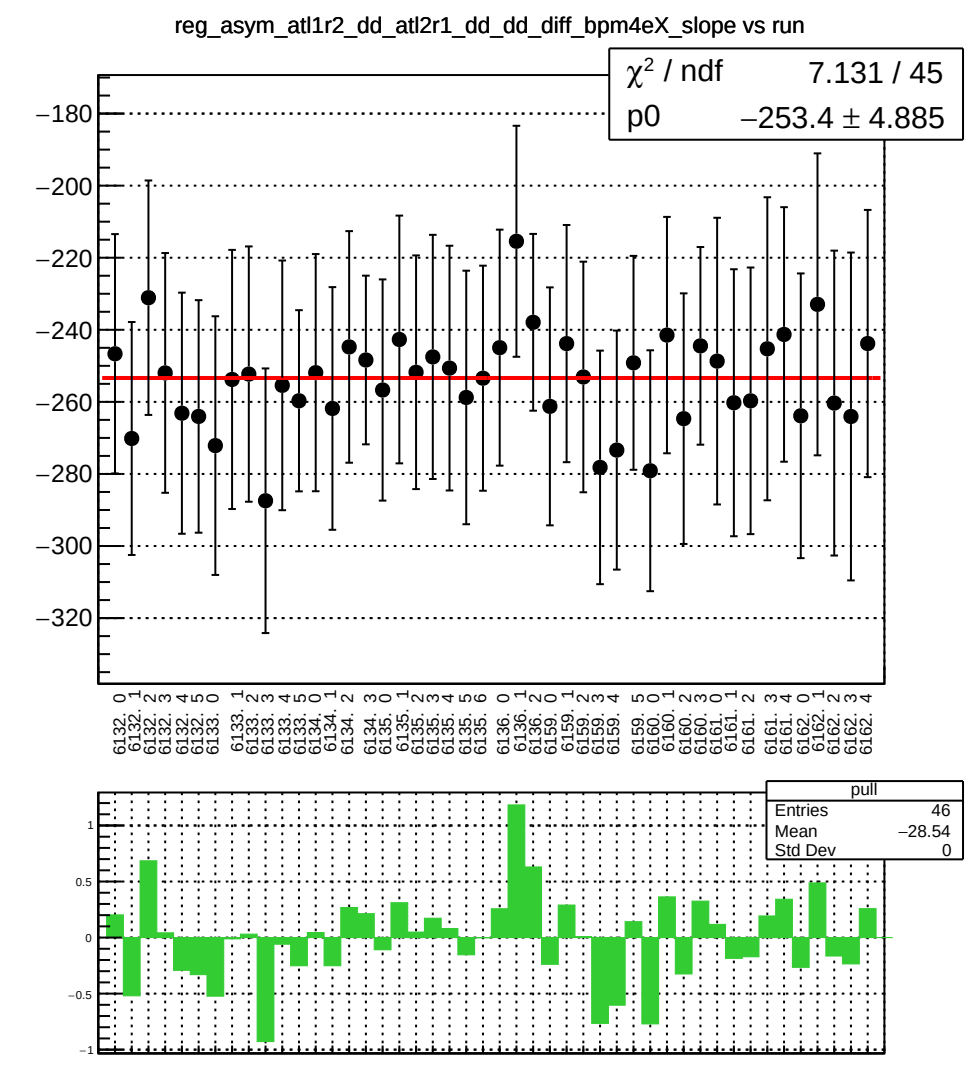
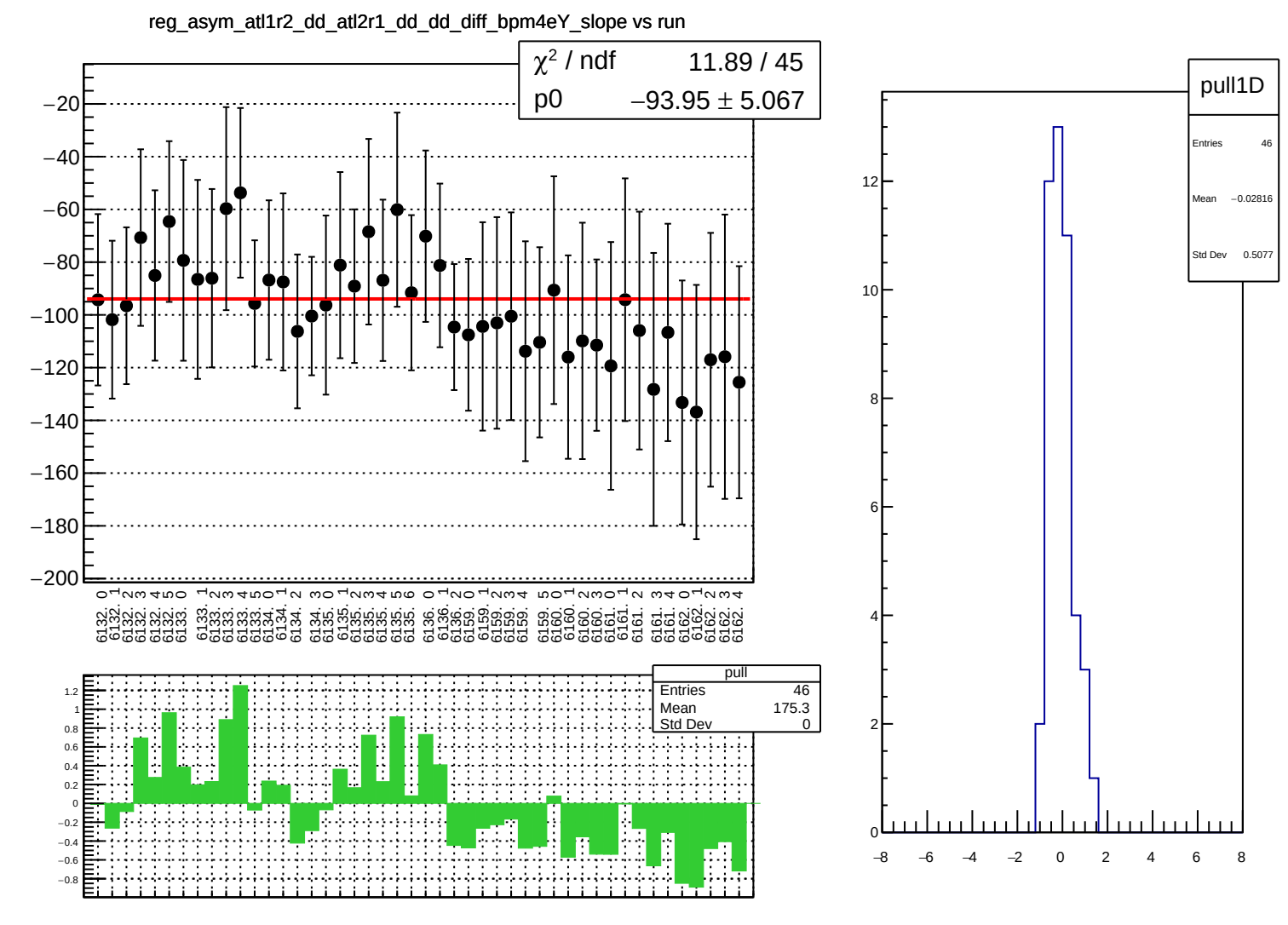
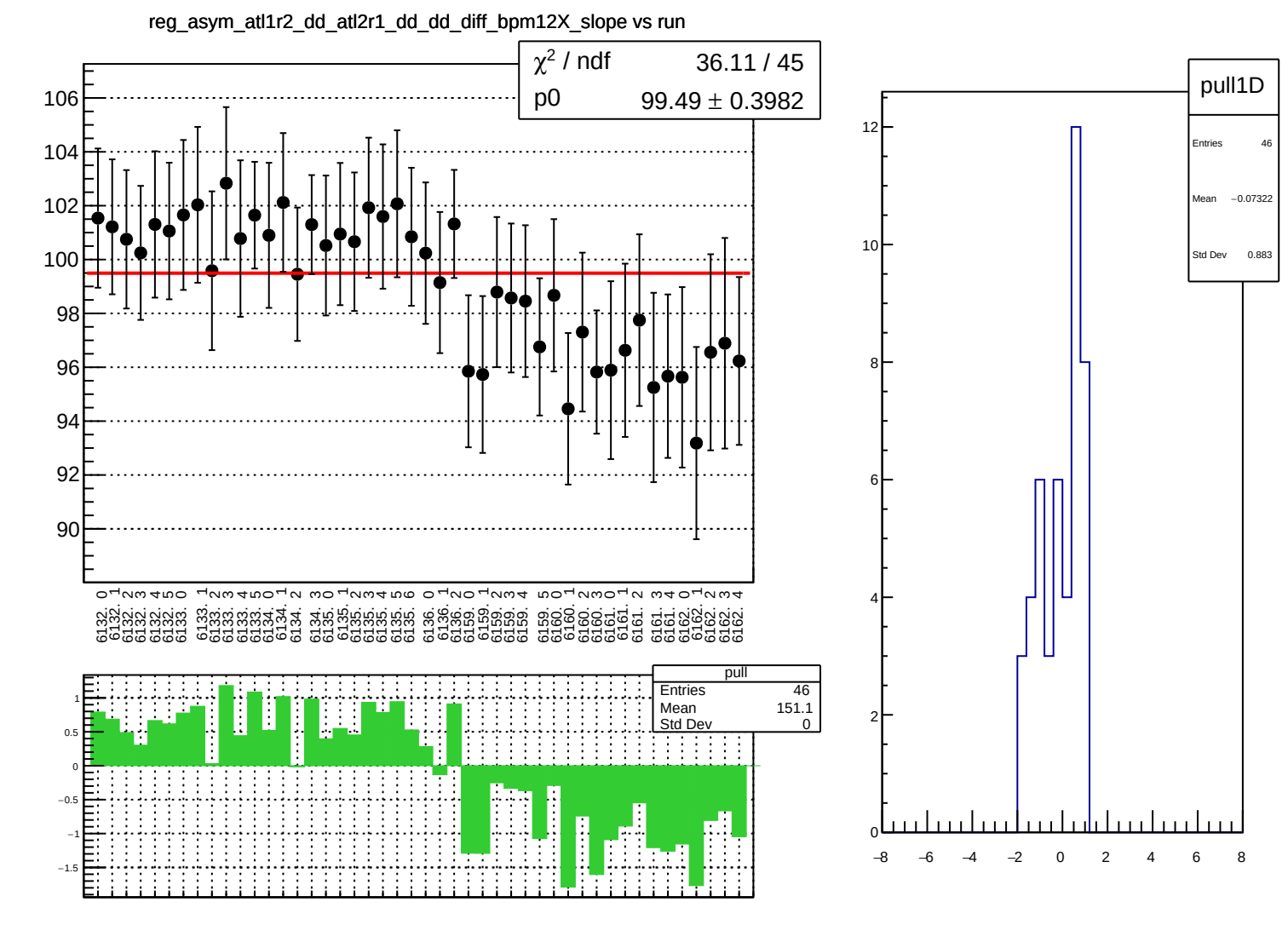
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 51.23
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean 0.008623
Std Dev 0.4189
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

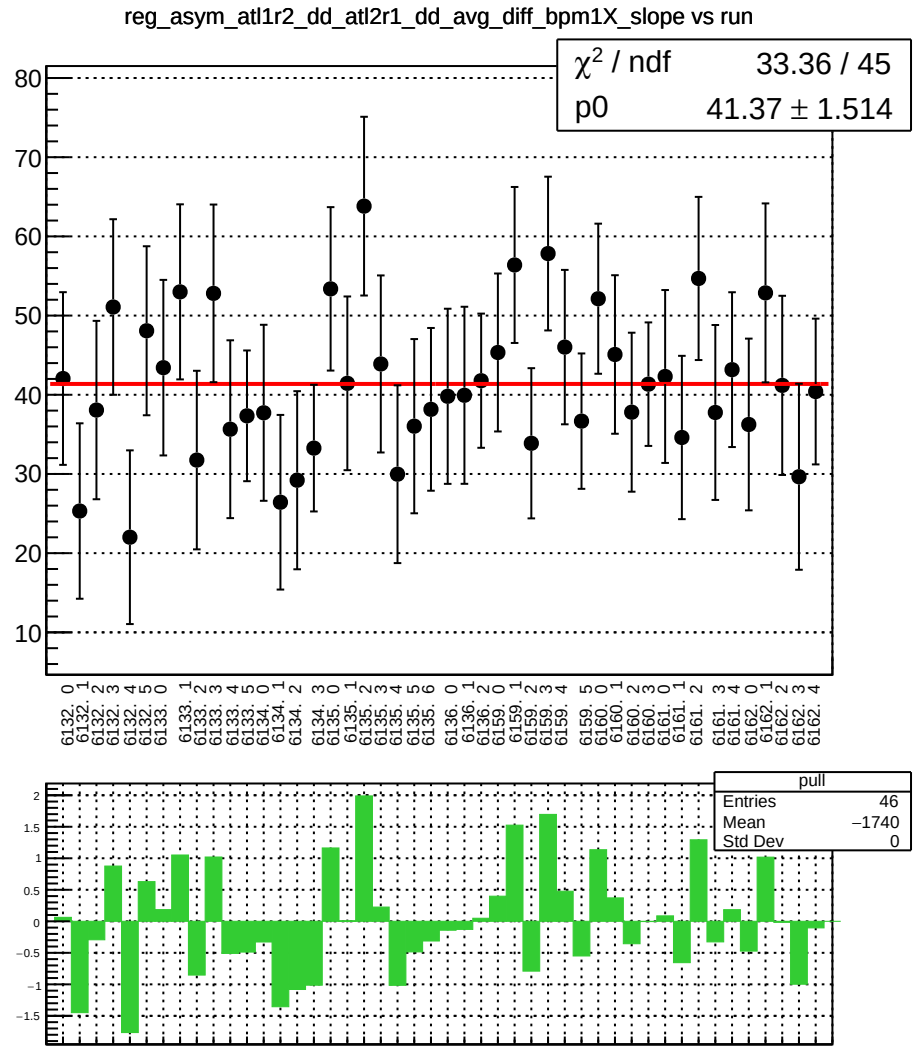

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.819 / 45
p0 21.13 ± 4.735
pull
Entries 46
Mean 333.4
Std Dev 0

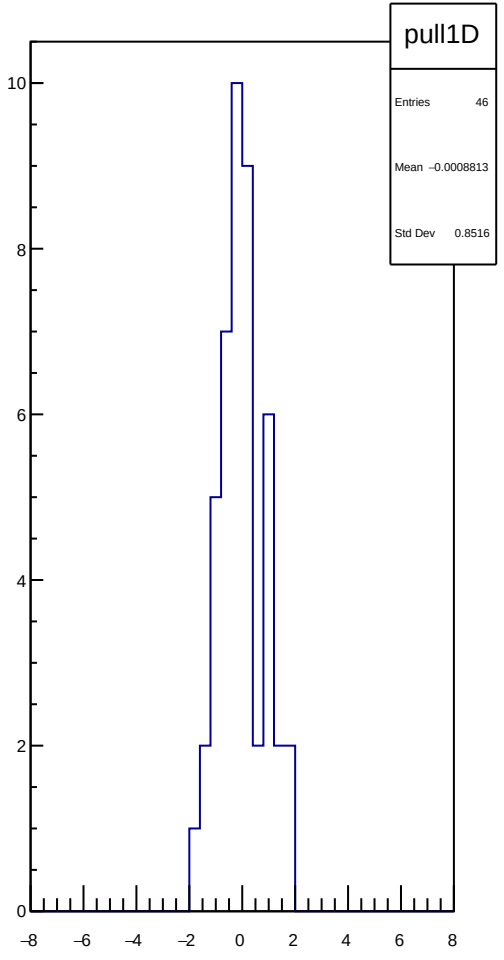

pull1D
Entries 46
Mean 0.01014
Std Dev 0.4377

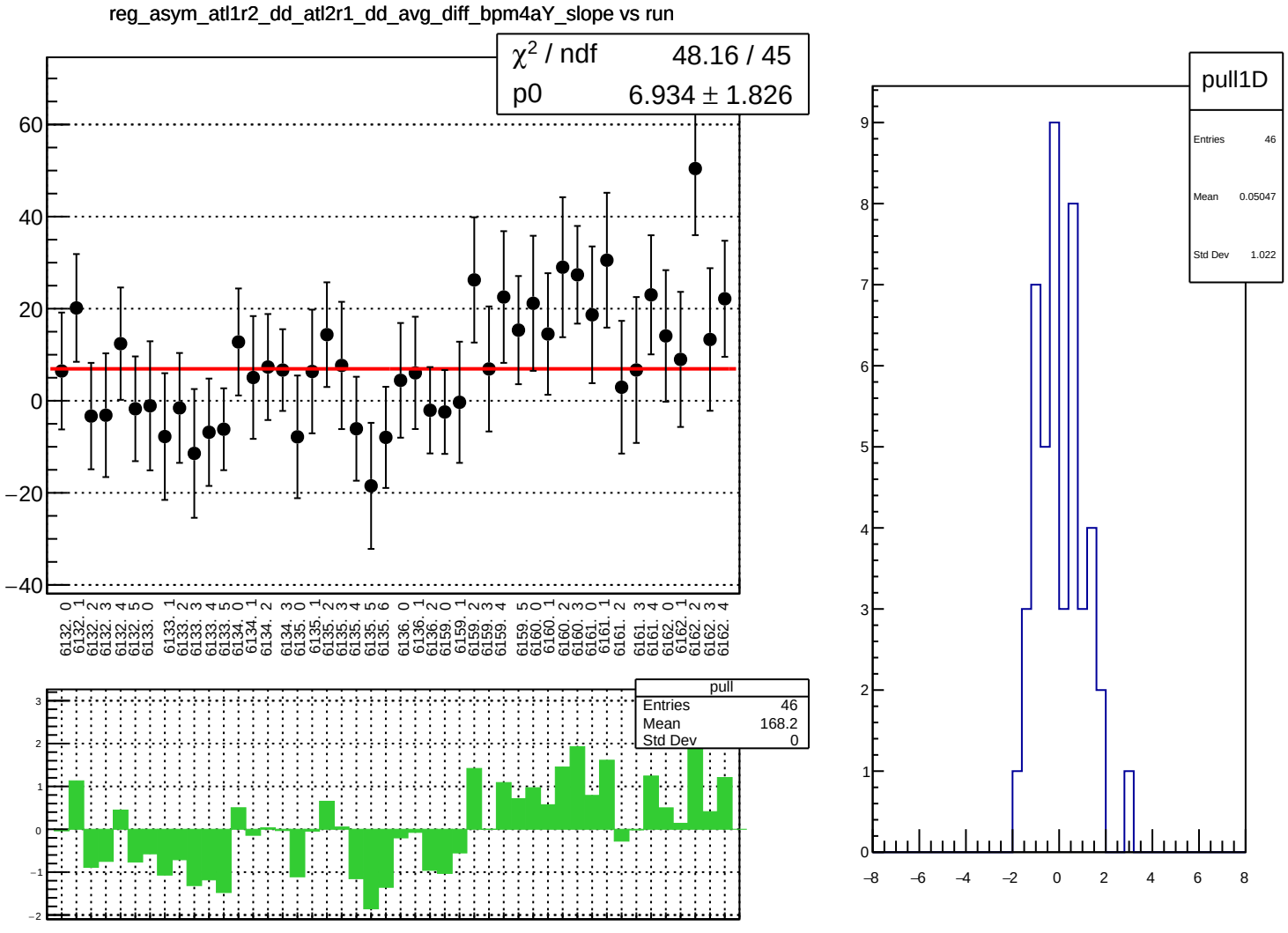

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.131 / 45
p0 −253.4 ± 4.885
−180
−200
−220
−240
−260
−280
−300
−320
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −28.54
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.009957
Std Dev 0.3936
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

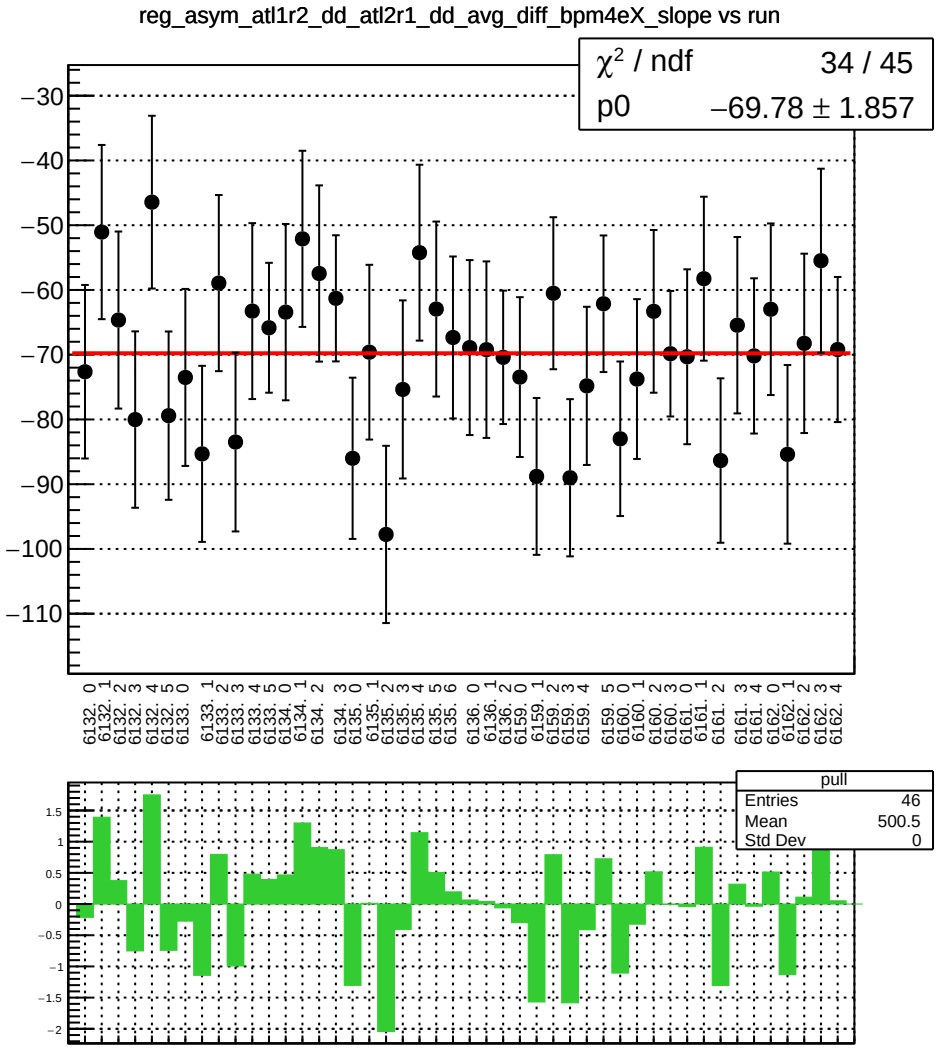

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.89 / 45
p0 −93.95 ± 5.067
pull
Entries 46
Mean 175.3
Std Dev 0
pull1D
Entries 46
Mean −0.02816
Std Dev 0.5077

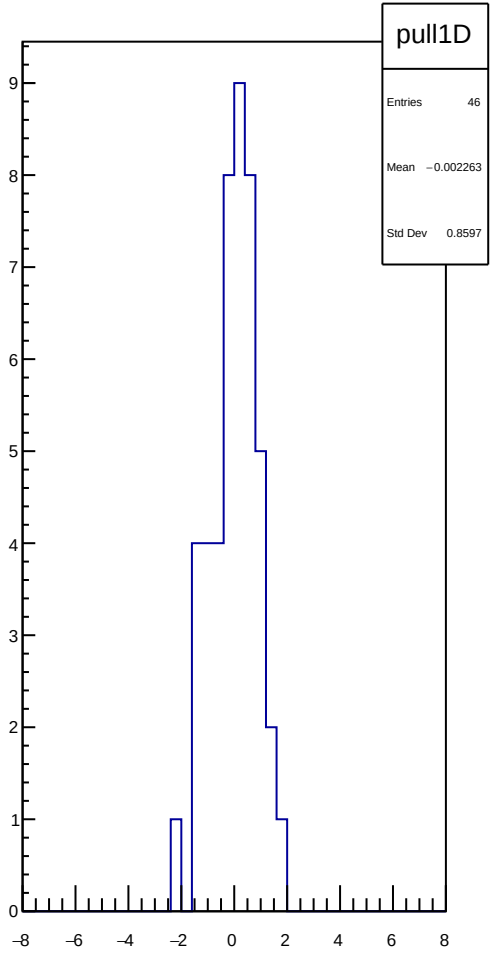

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 36.11 / 45
p0 99.49 ± 0.3982
pull
Entries 46
Mean 151.1
Std Dev 0
pull1D
Entries 46
Mean −0.07322
Std Dev 0.883

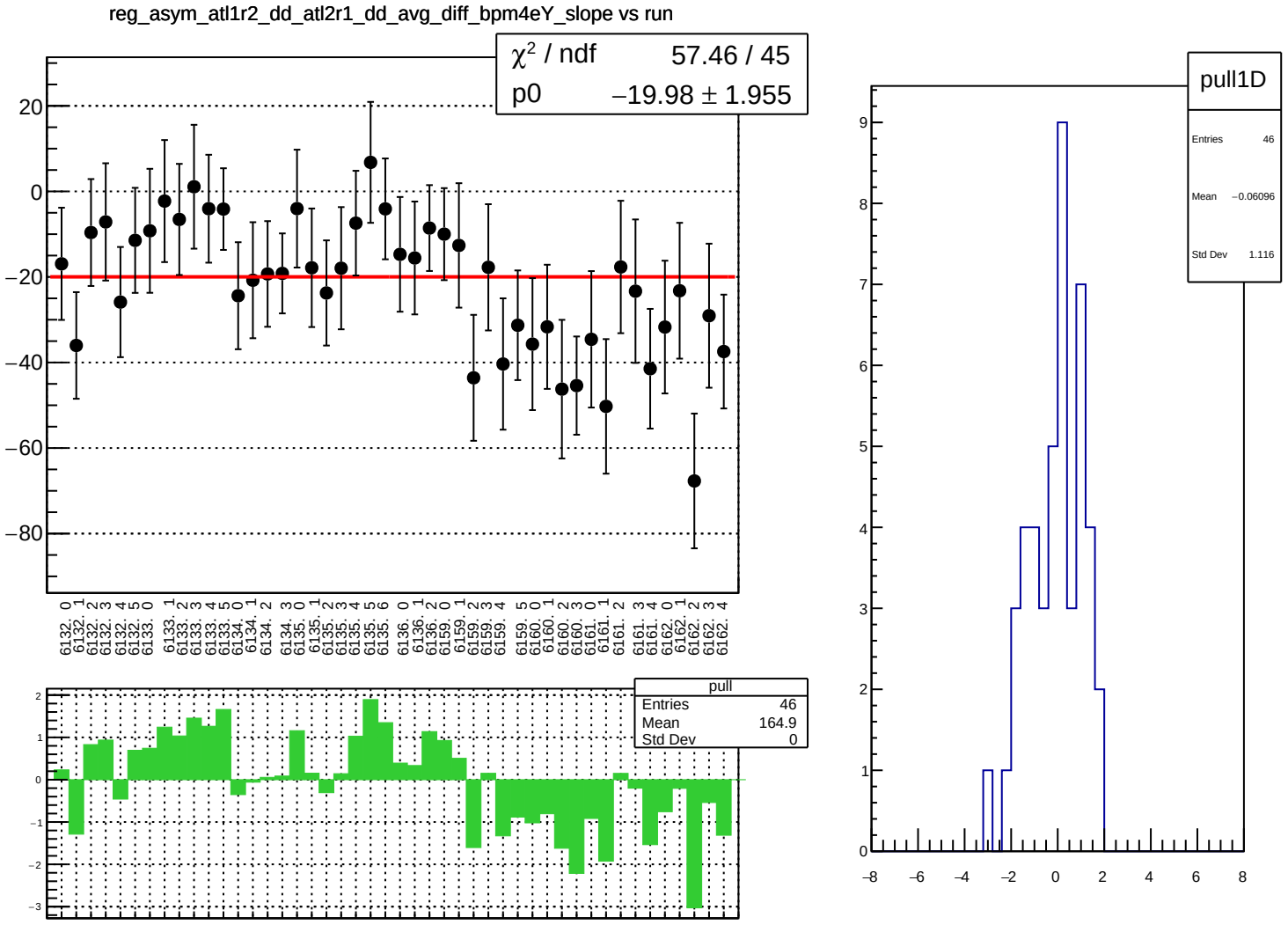

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 33.36 / 45
p0 41.37 ± 1.514
pull
Entries 46
Mean −1740
Std Dev 0

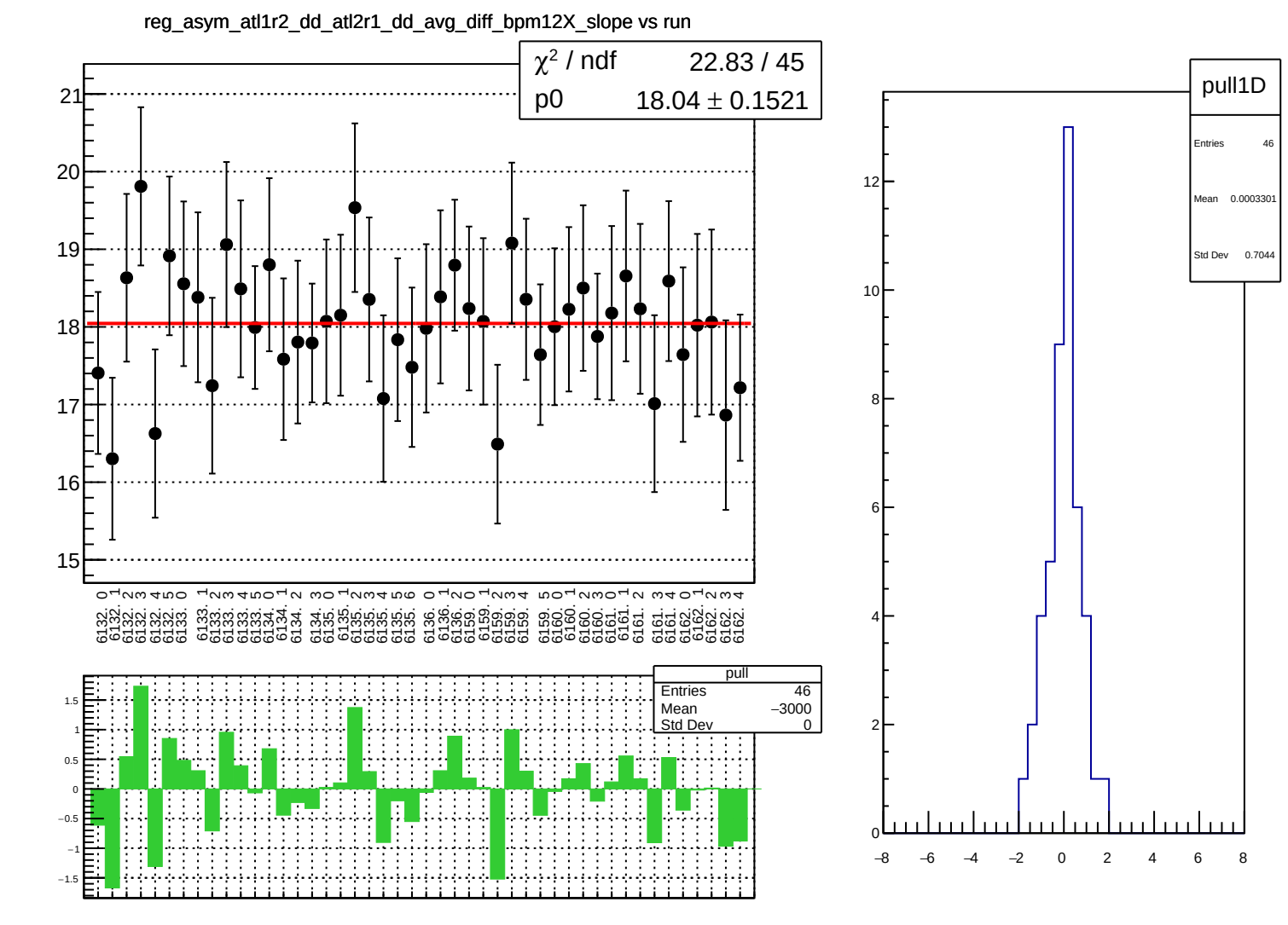

pull1D
Entries 46
Mean −0.0008813
Std Dev 0.8516

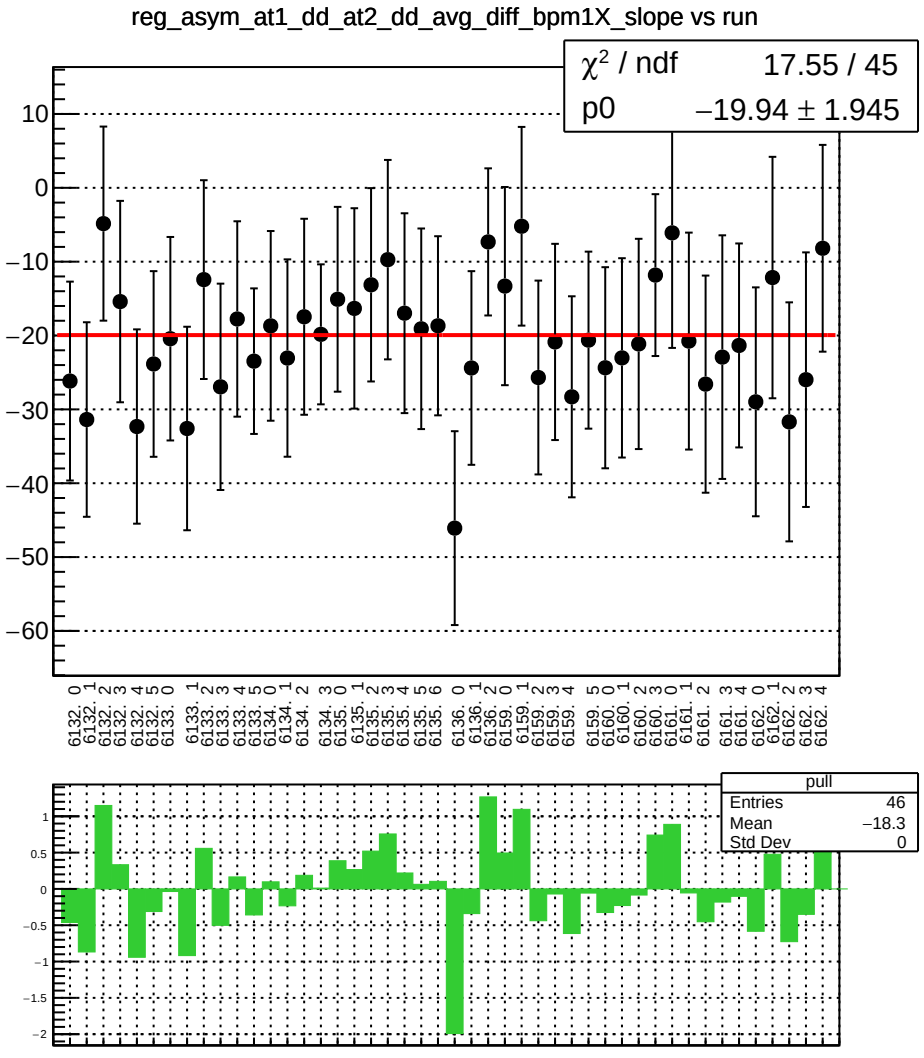

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 48.16 / 45
p0 6.934 ± 1.826
pull
Entries 46
Mean 168.2
Std Dev 0
pull1D
Entries 46
Mean 0.05047
Std Dev 1.022

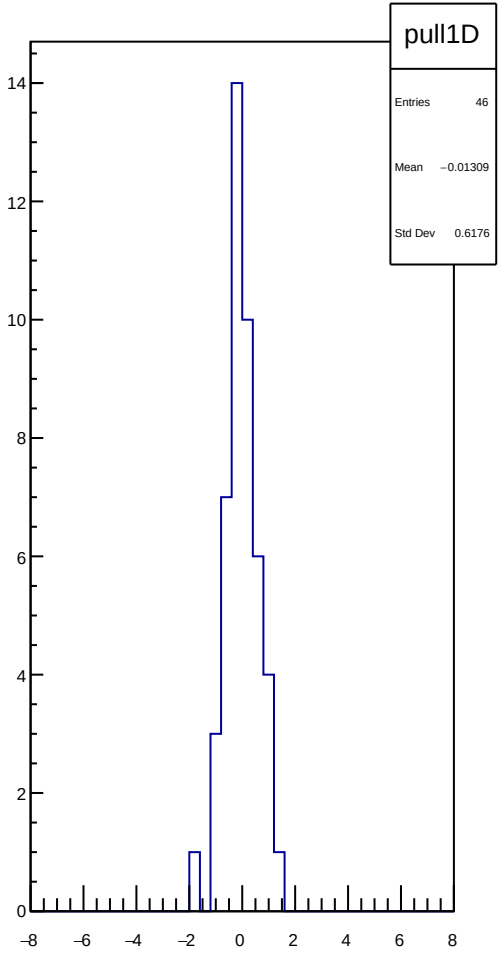

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 34 / 45
p0 −69.78 ± 1.857
pull
Entries 46
Mean 500.5
Std Dev 0

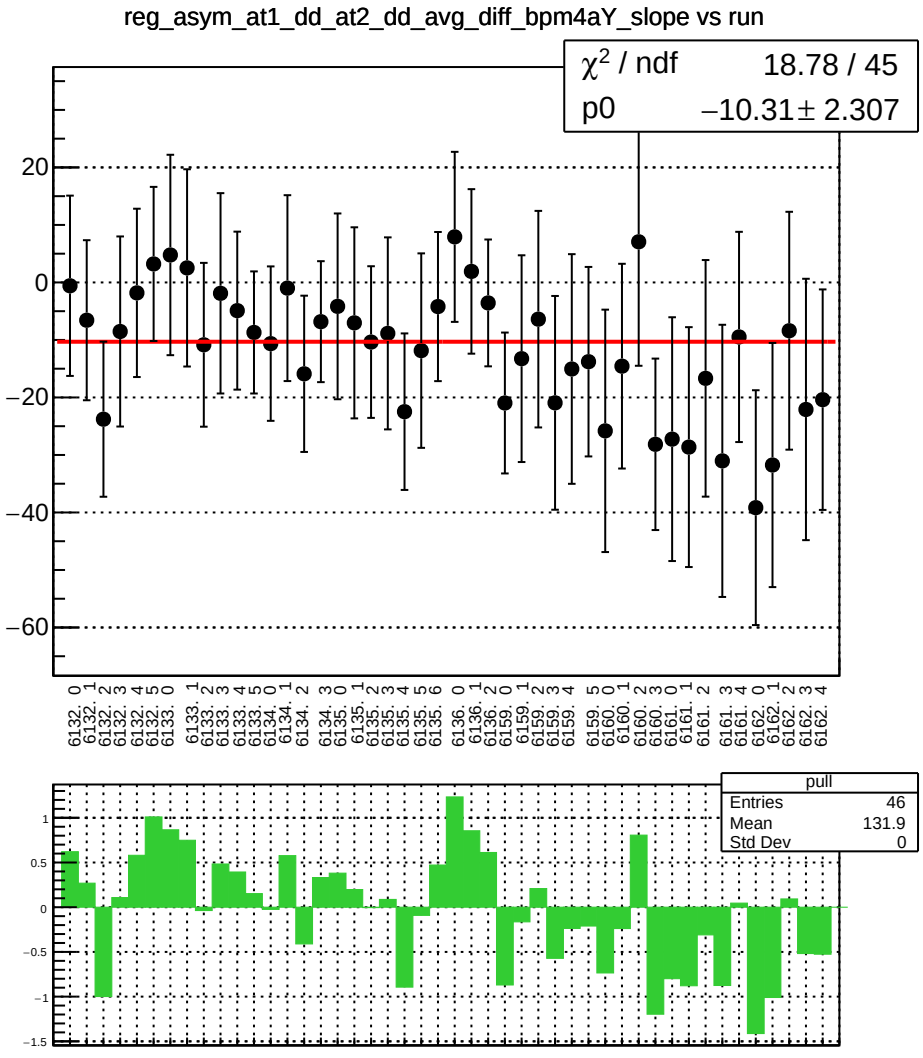

pull1D
Entries 46
Mean −0.002263
Std Dev 0.8597

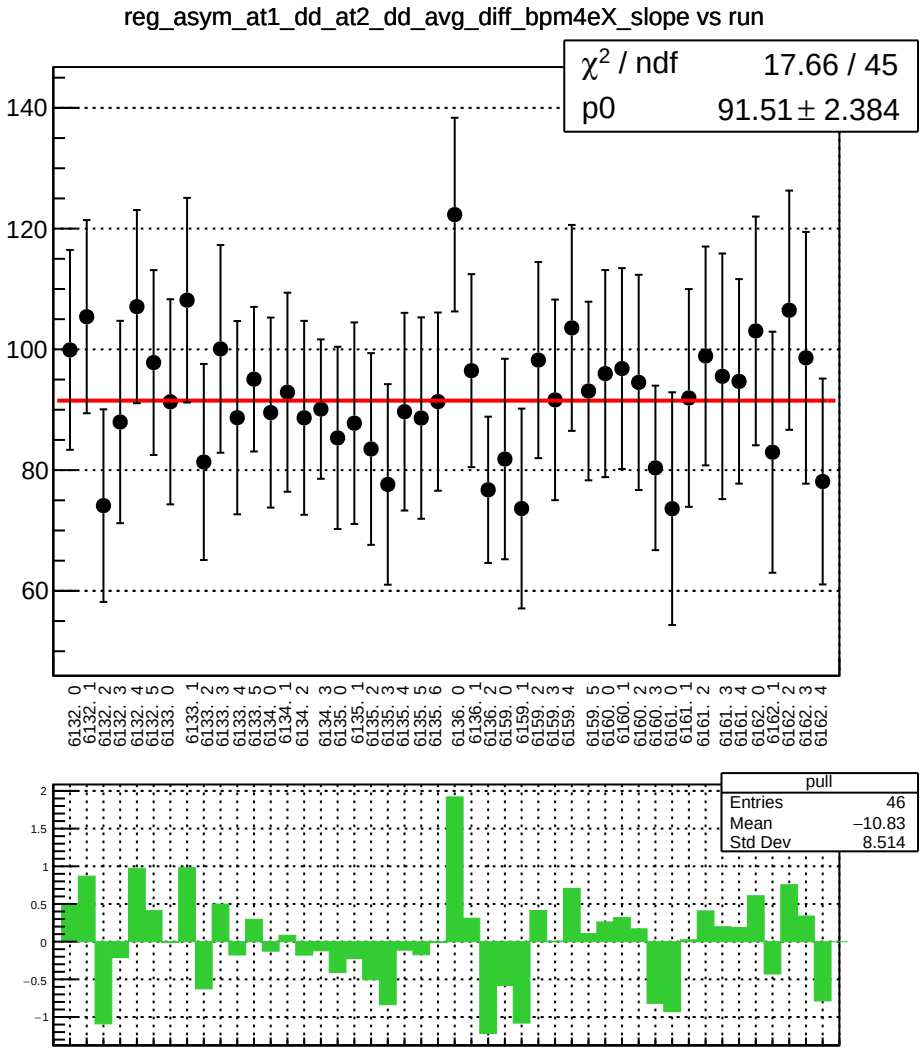

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 57.46 / 45
p0 −19.98 ± 1.955
20
0
−20
−40
−60
−80
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 164.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.06096
Std Dev 1.116
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

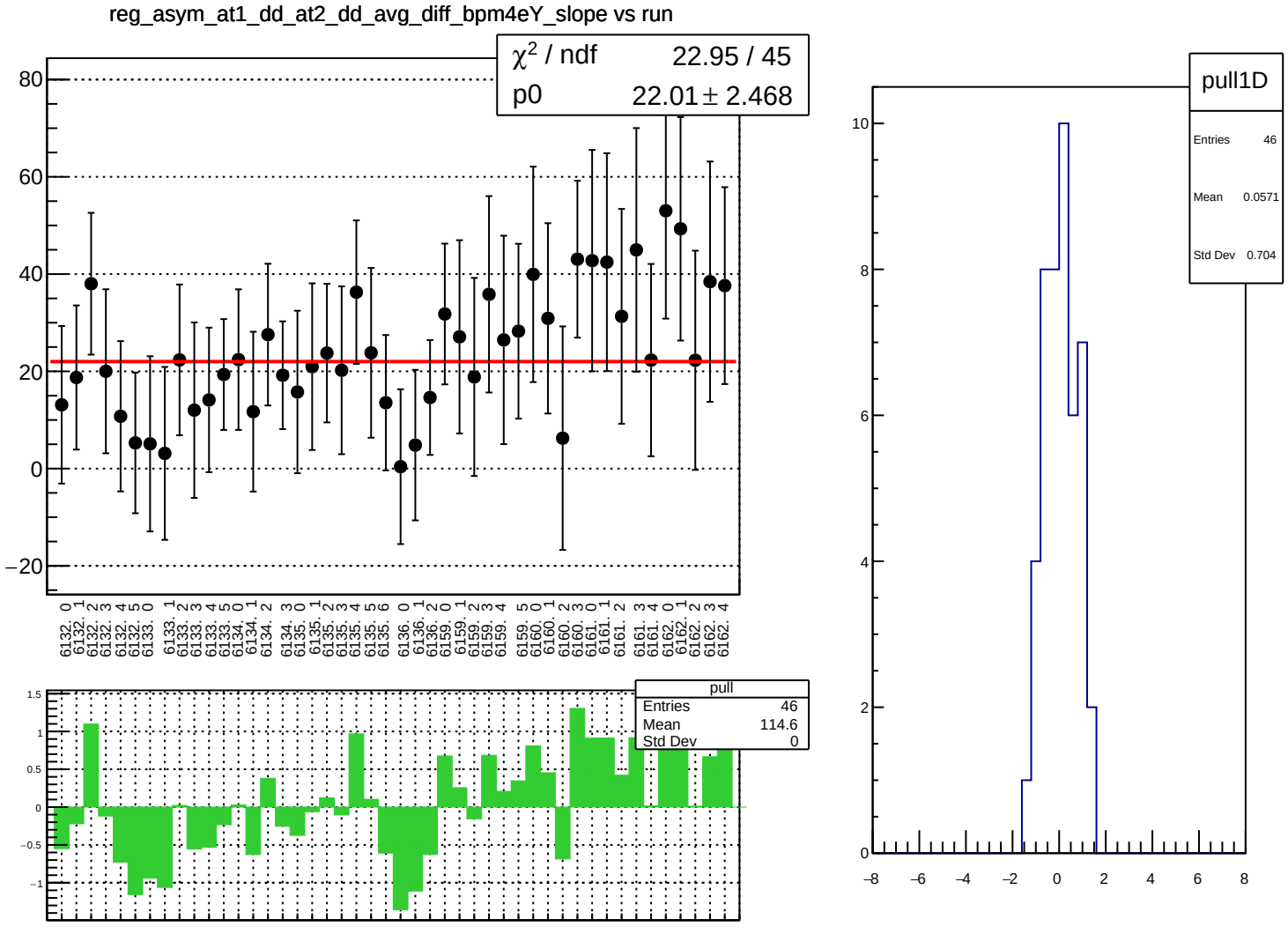

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 22.83 / 45
p0 18.04 ± 0.1521
pull
Entries 46
Mean −3000
Std Dev 0
pull1D
Entries 46
Mean 0.0003301
Std Dev 0.7044

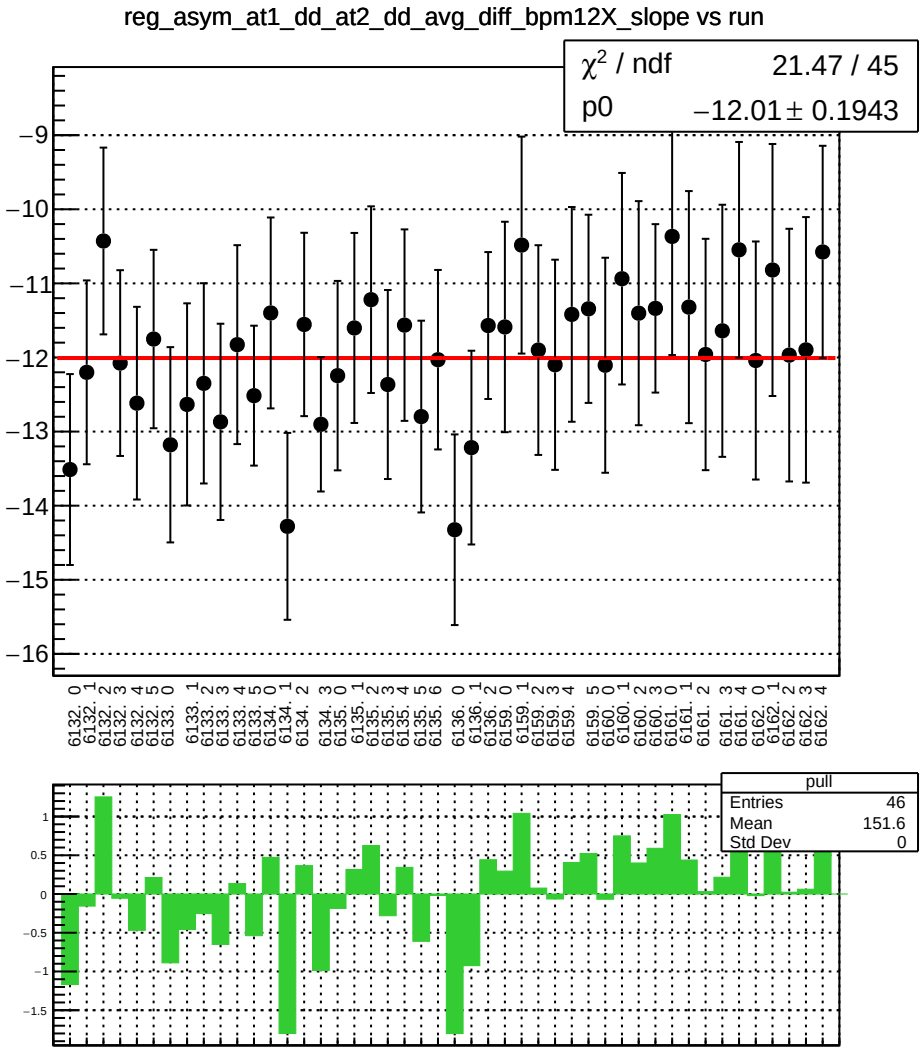

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 17.55 / 45
p0 −19.94 ± 1.945
pull
Entries 46
Mean −18.3
Std Dev 0

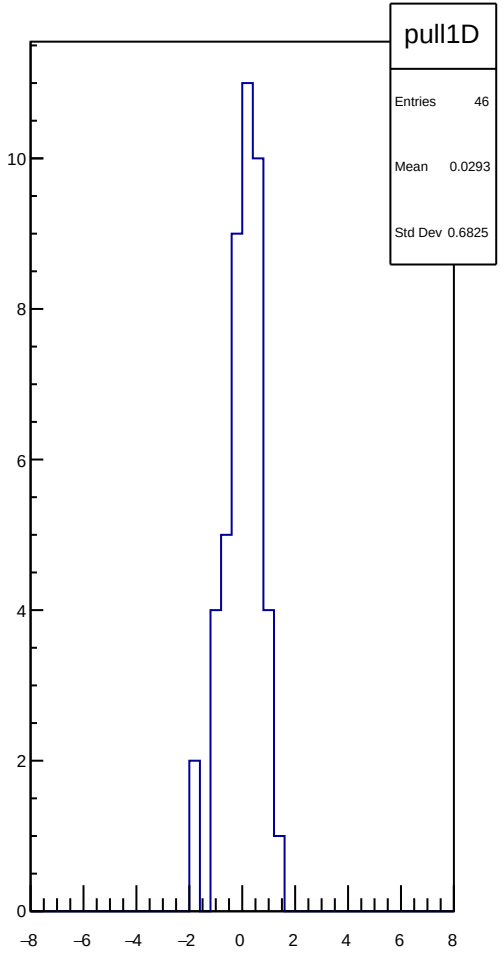

pull1D
Entries 46
Mean −0.01309
Std Dev 0.6176

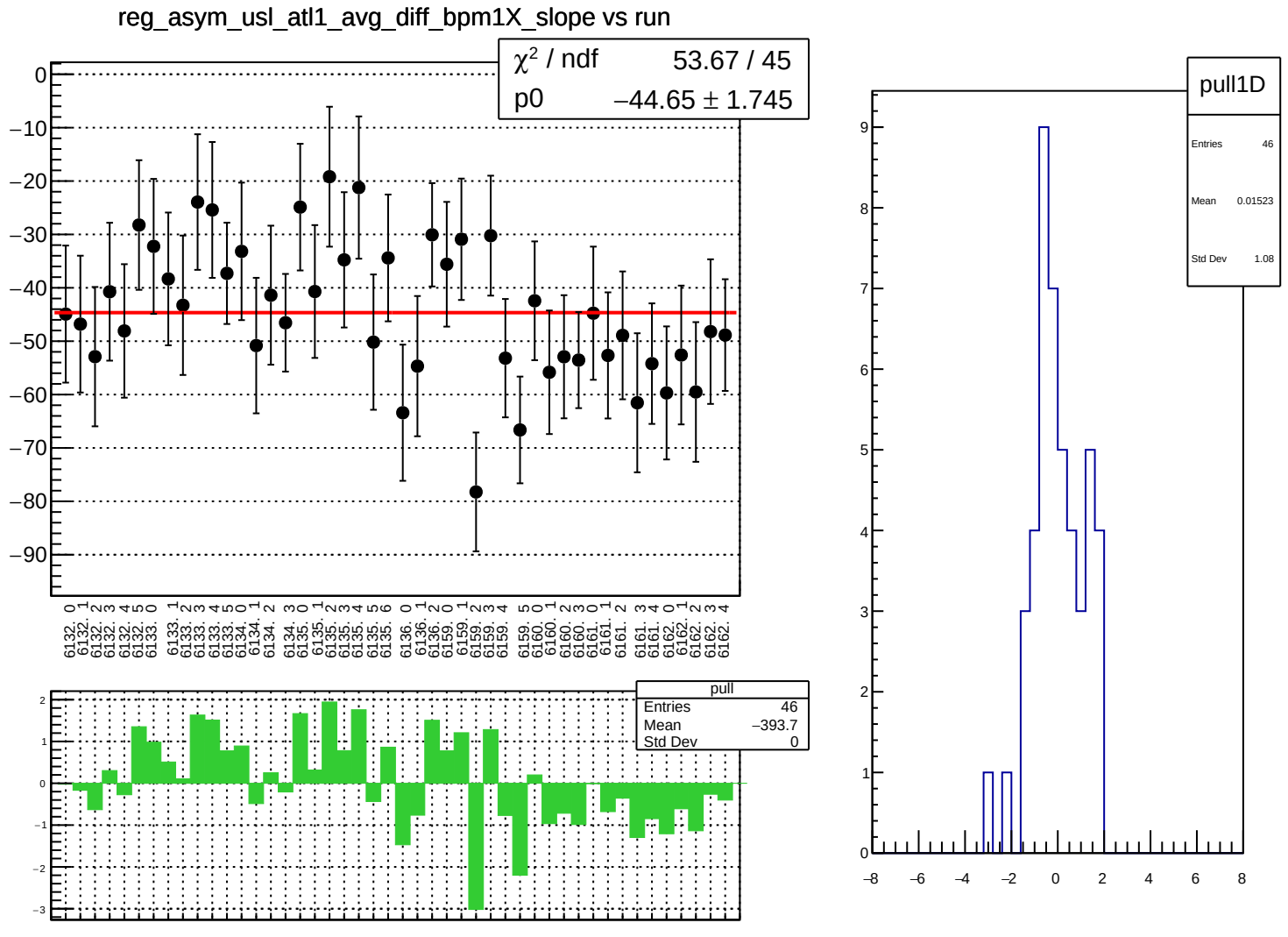

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.78 / 45
p0 −10.31 ± 2.307
pull
Entries 46
Mean 131.9
Std Dev 0
pull1D
Entries 46
Mean −0.0409
Std Dev 0.6377

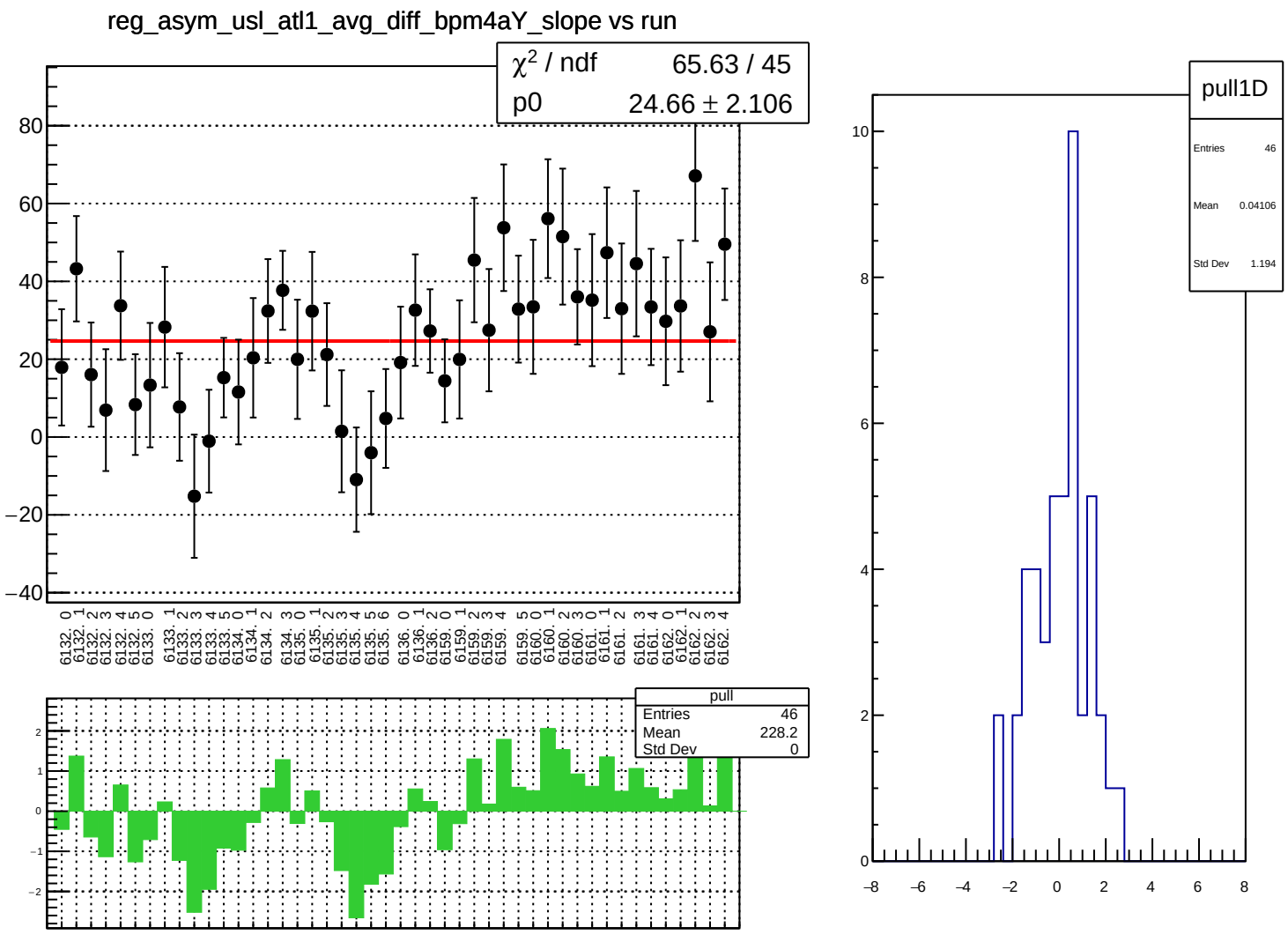

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.66 / 45
p0 91.51 ± 2.384
140
120
100
80
60
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −10.83
Std Dev 8.514
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean 0.0153
Std Dev 0.6194
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

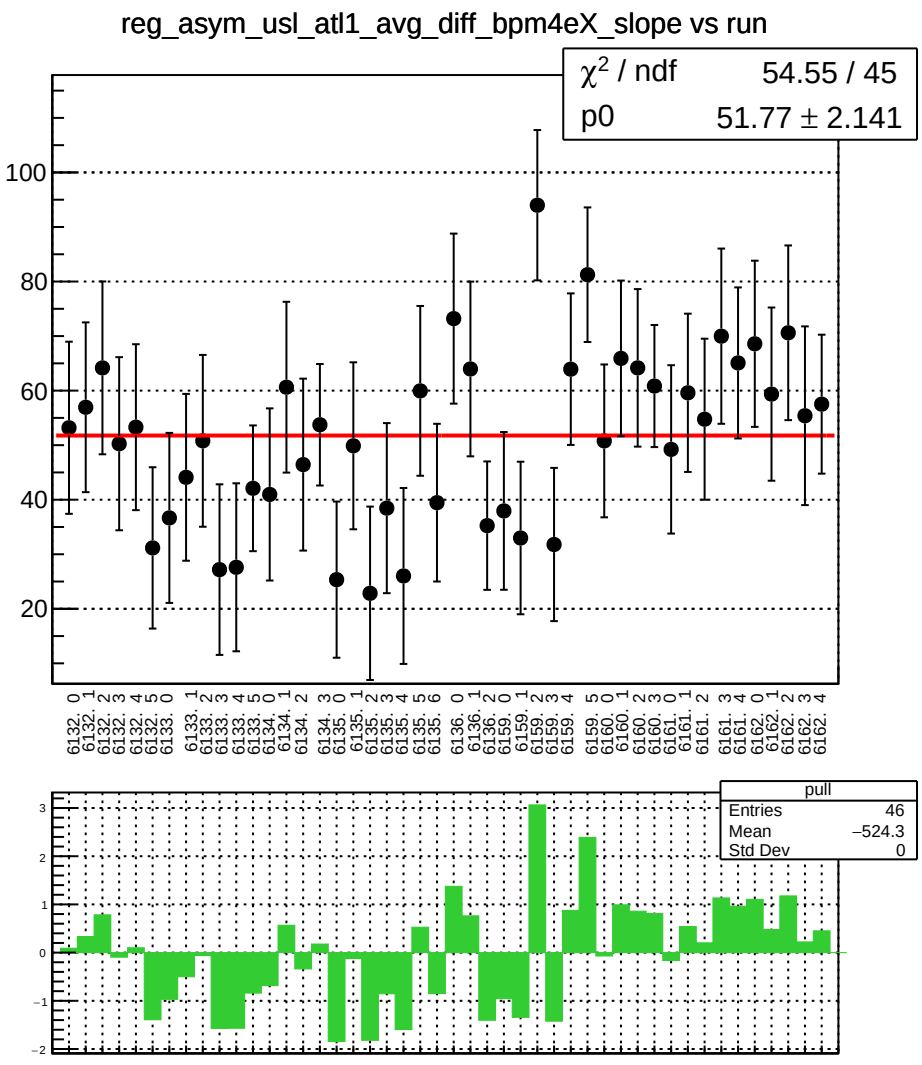

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.95 / 45
p0 22.01 ± 2.468
pull
Entries 46
Mean 114.6
Std Dev 0
pull1D
Entries 46
Mean 0.0571
Std Dev 0.704

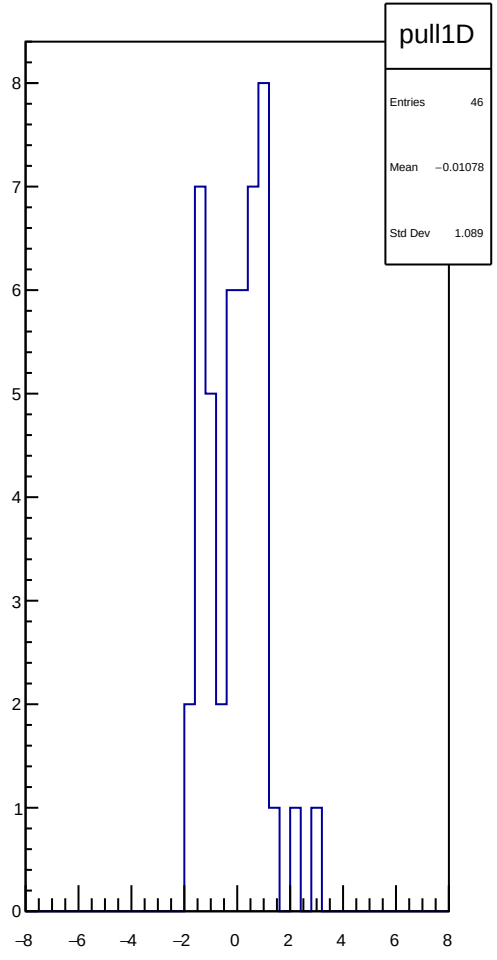

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 21.47 / 45
p0 −12.01 ± 0.1943
pull
Entries 46
Mean 151.6
Std Dev 0

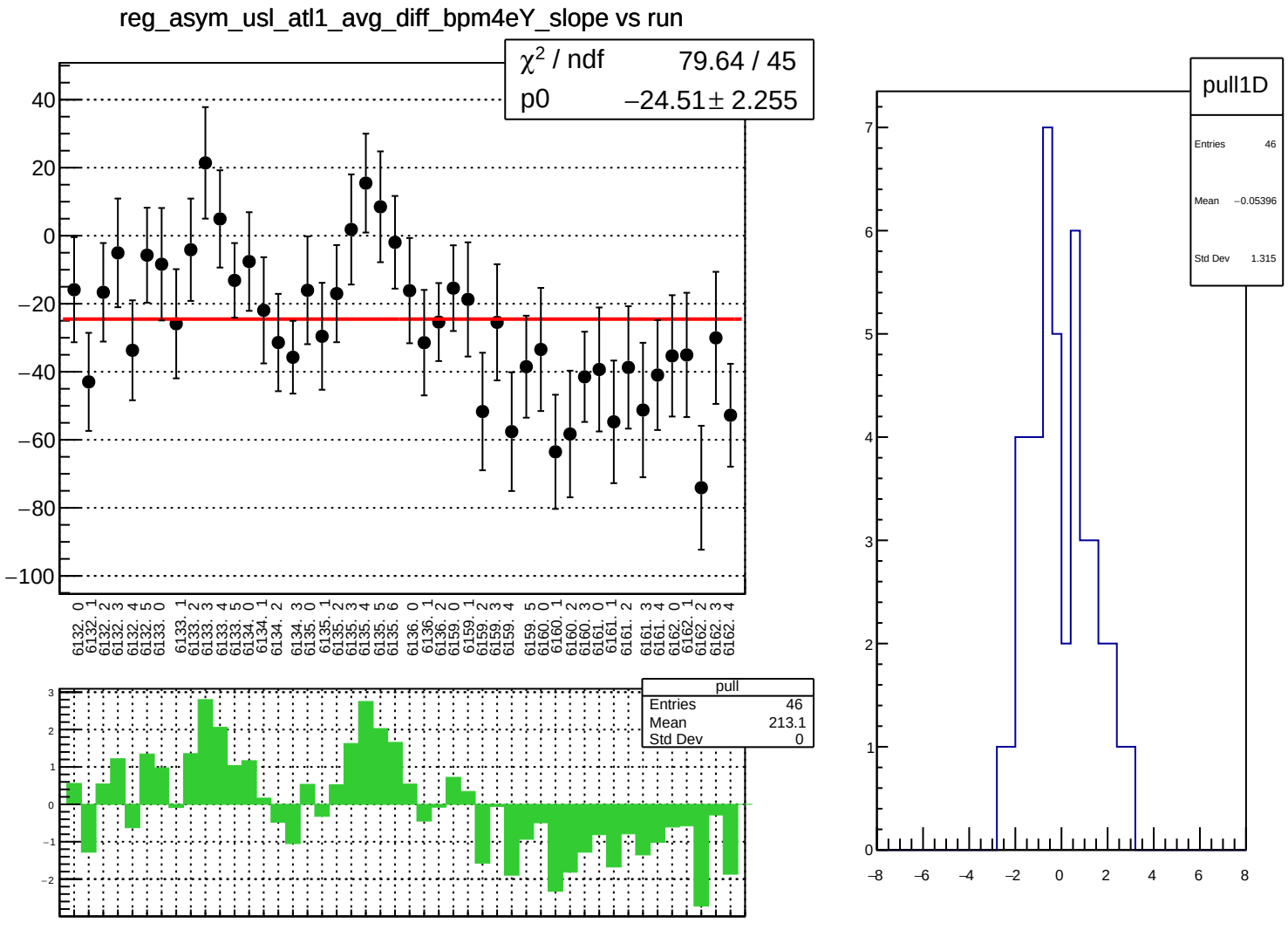

pull1D
Entries 46
Mean 0.0293
Std Dev 0.6825

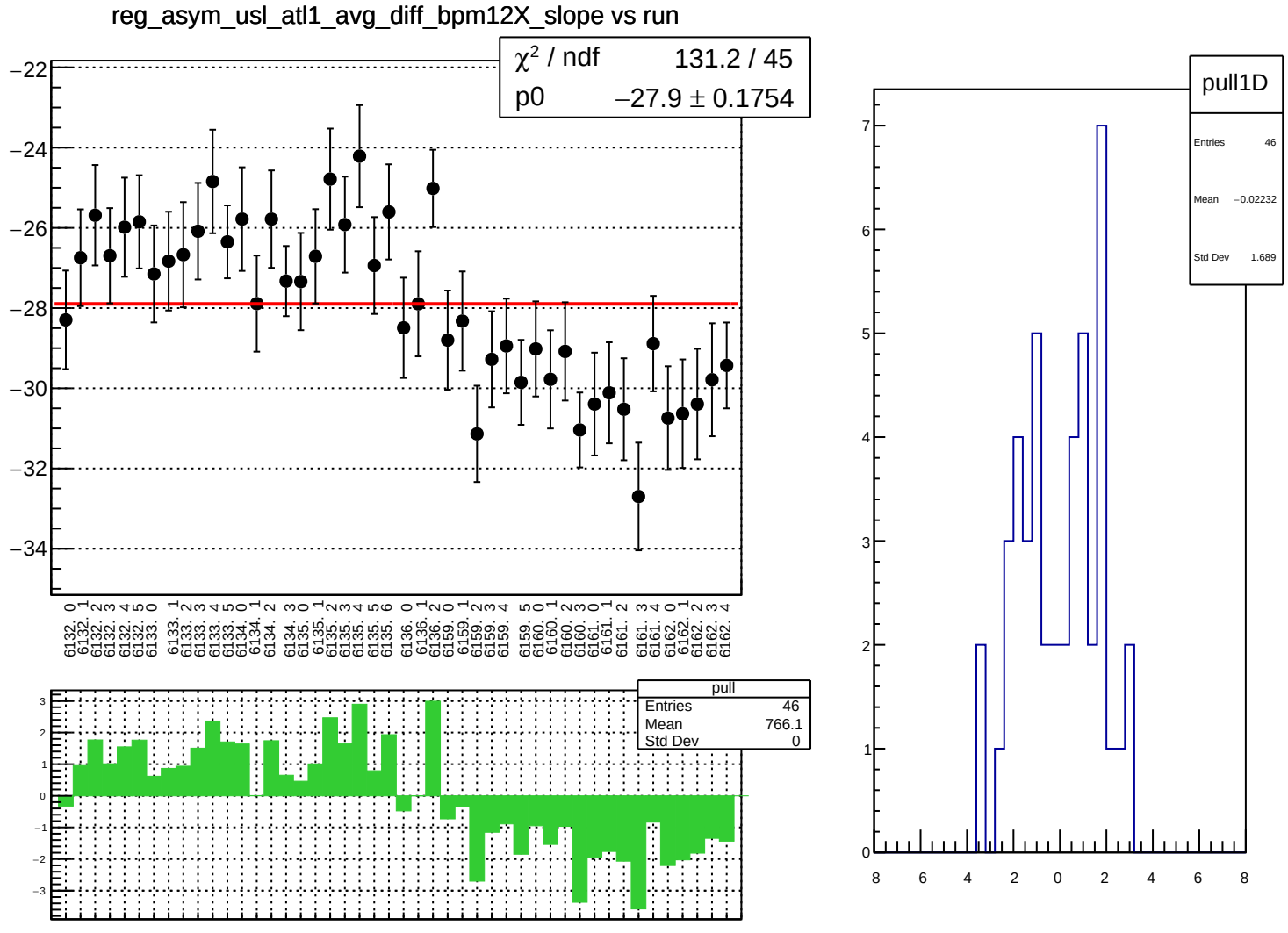

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 53.67 / 45
p0 −44.65 ± 1.745
pull
Entries 46
Mean −393.7
Std Dev 0
pull1D
Entries 46
Mean 0.01523
Std Dev 1.08

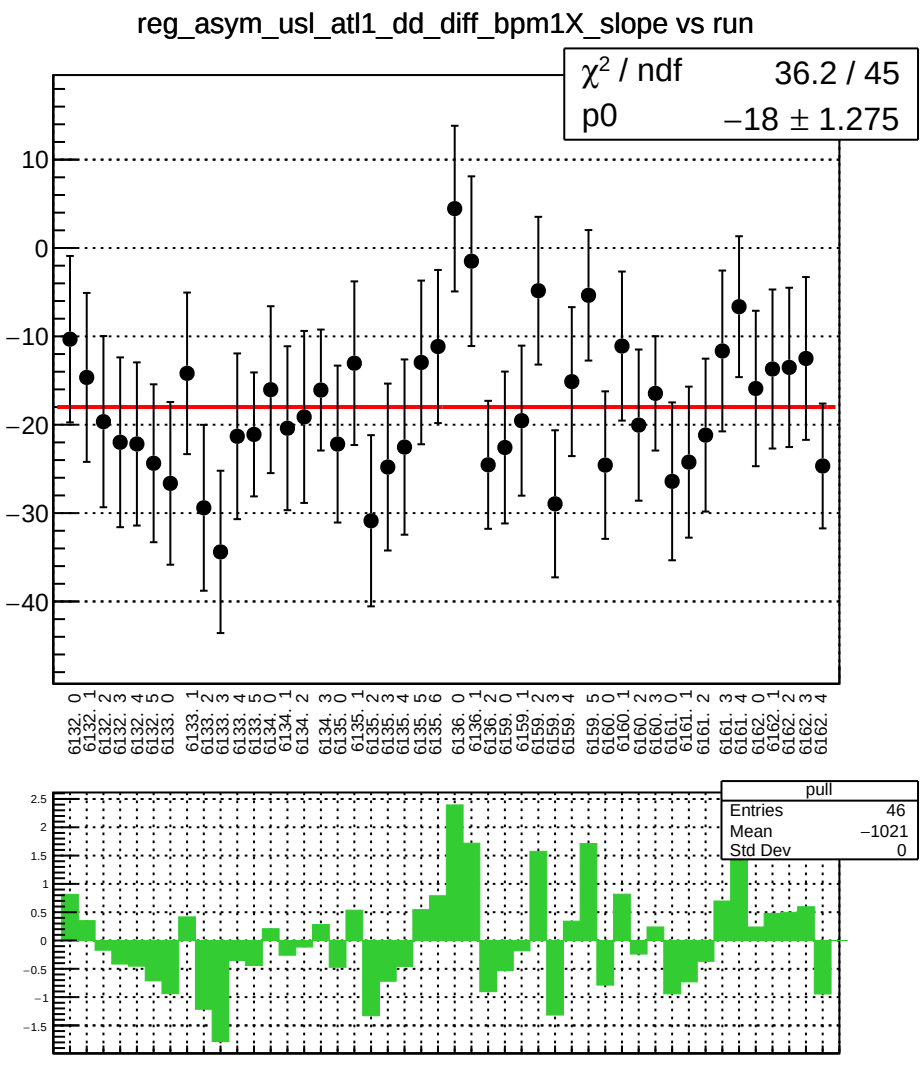

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 65.63 / 45
p0 24.66 ± 2.106
pull
Entries 46
Mean 228.2
Std Dev 0
pull1D
Entries 46
Mean 0.04106
Std Dev 1.194

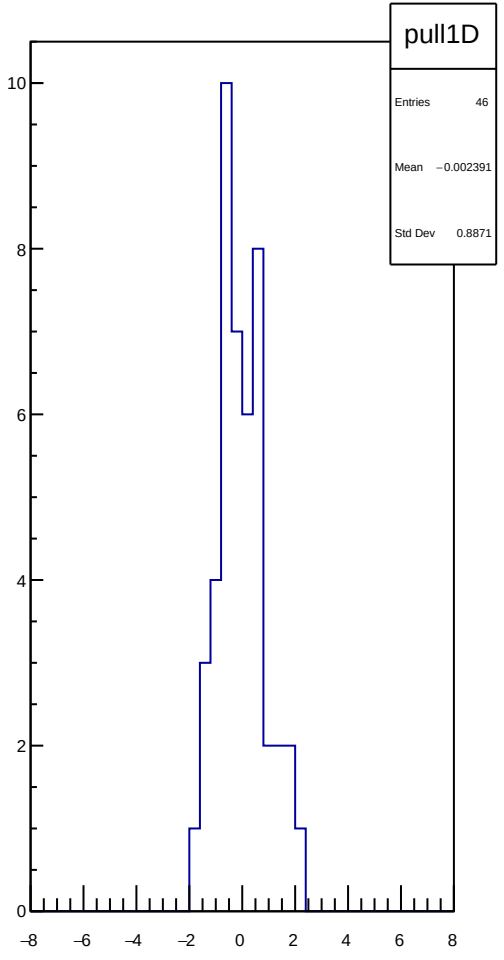

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 54.55 / 45
p0 51.77 ± 2.141
pull
Entries 46
Mean −524.3
Std Dev 0

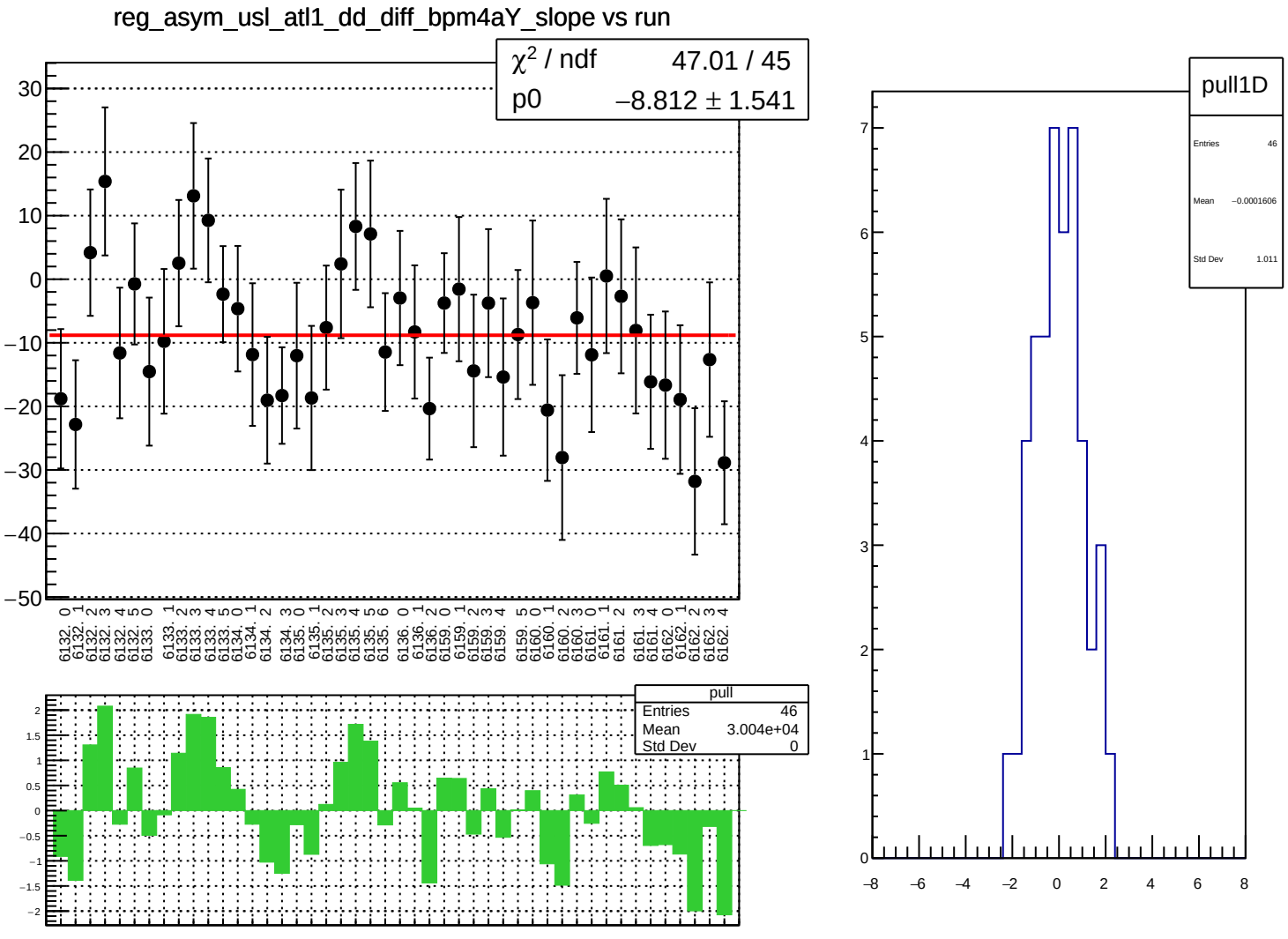

pull1D
Entries 46
Mean −0.01078
Std Dev 1.089

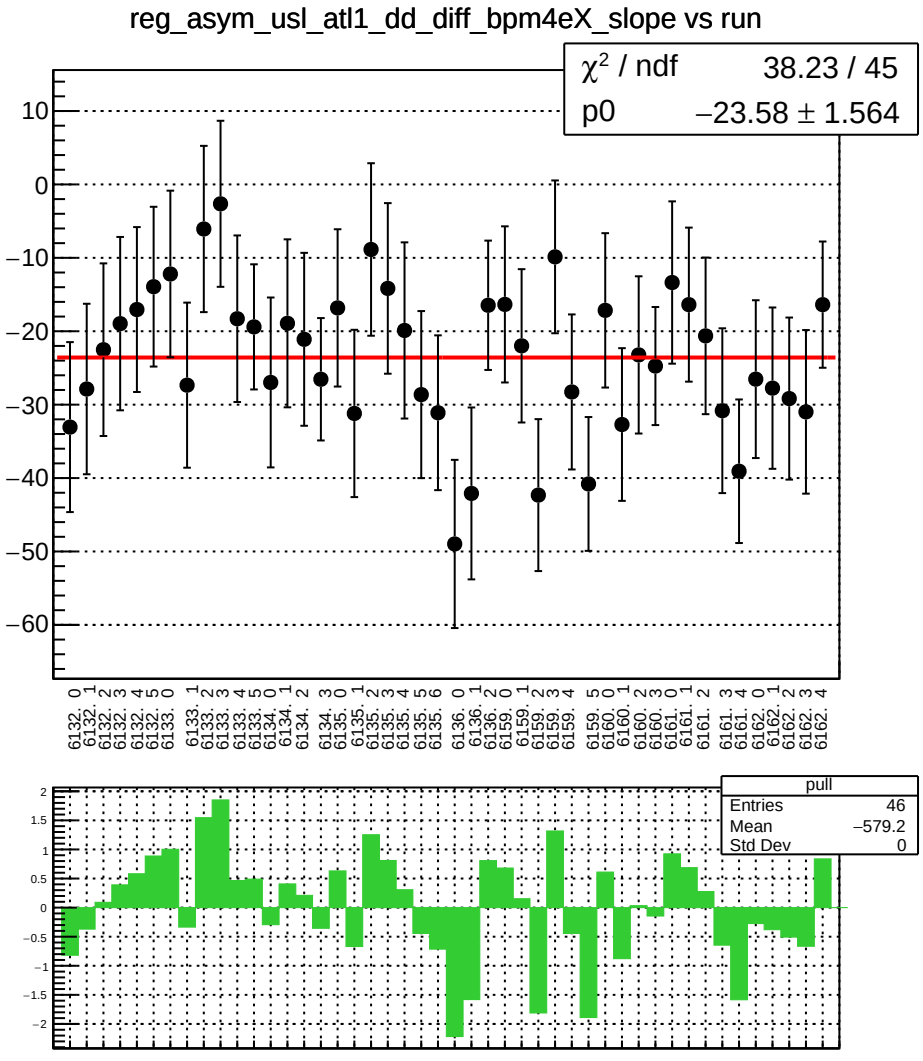

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 79.64 / 45
p0 −24.51 ± 2.255
pull
Entries 46
Mean 213.1
Std Dev 0
pull1D
Entries 46
Mean −0.05396
Std Dev 1.315

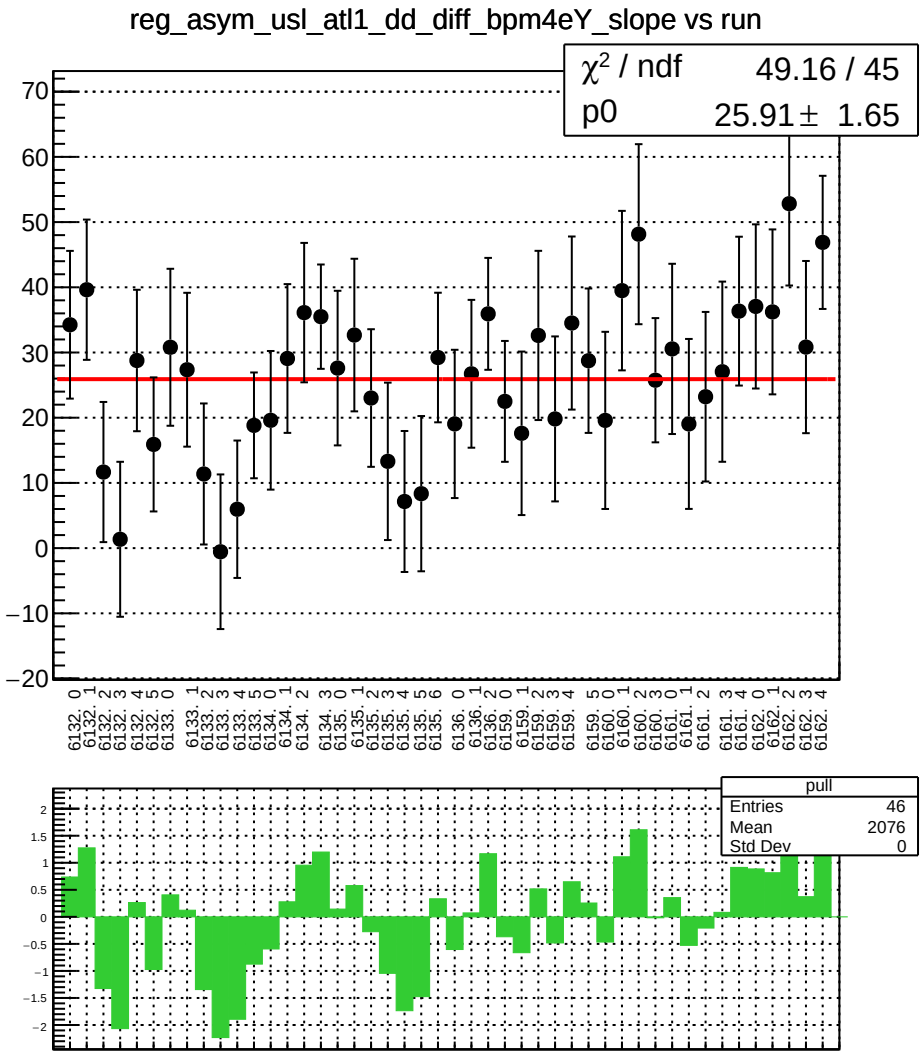

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 131.2 / 45
p0 −27.9 ± 0.1754
pull
Entries 46
Mean 766.1
Std Dev 0
pull1D
Entries 46
Mean −0.02232
Std Dev 1.689

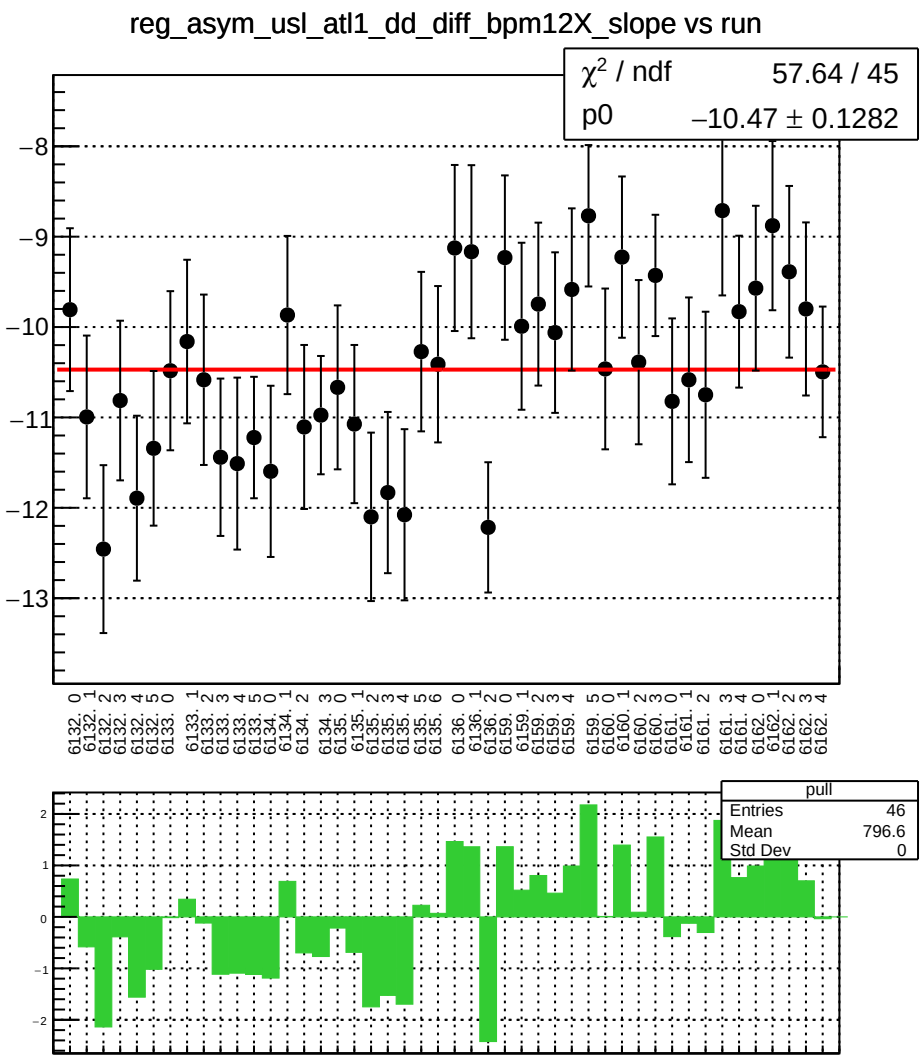

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 36.2 / 45
p0 −18 ± 1.275
pull
Entries 46
Mean −1021
Std Dev 0

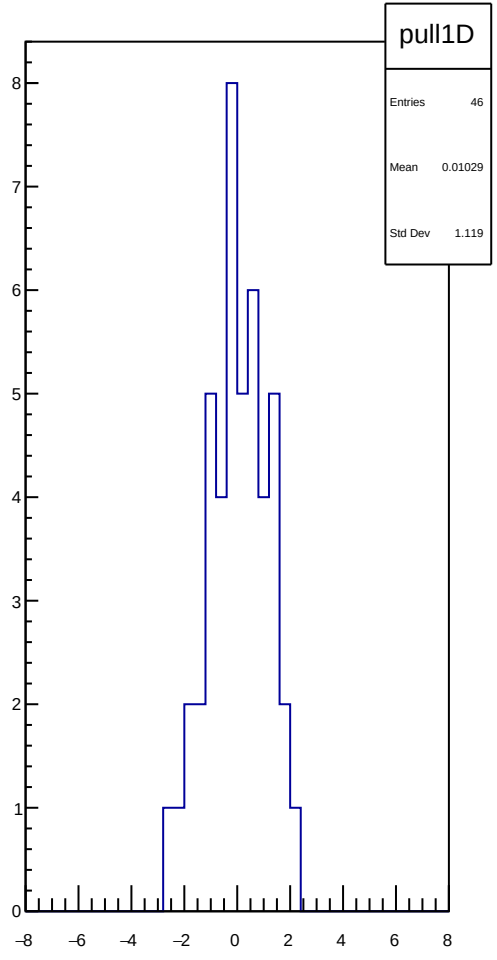

pull1D
Entries 46
Mean −0.002391
Std Dev 0.8871

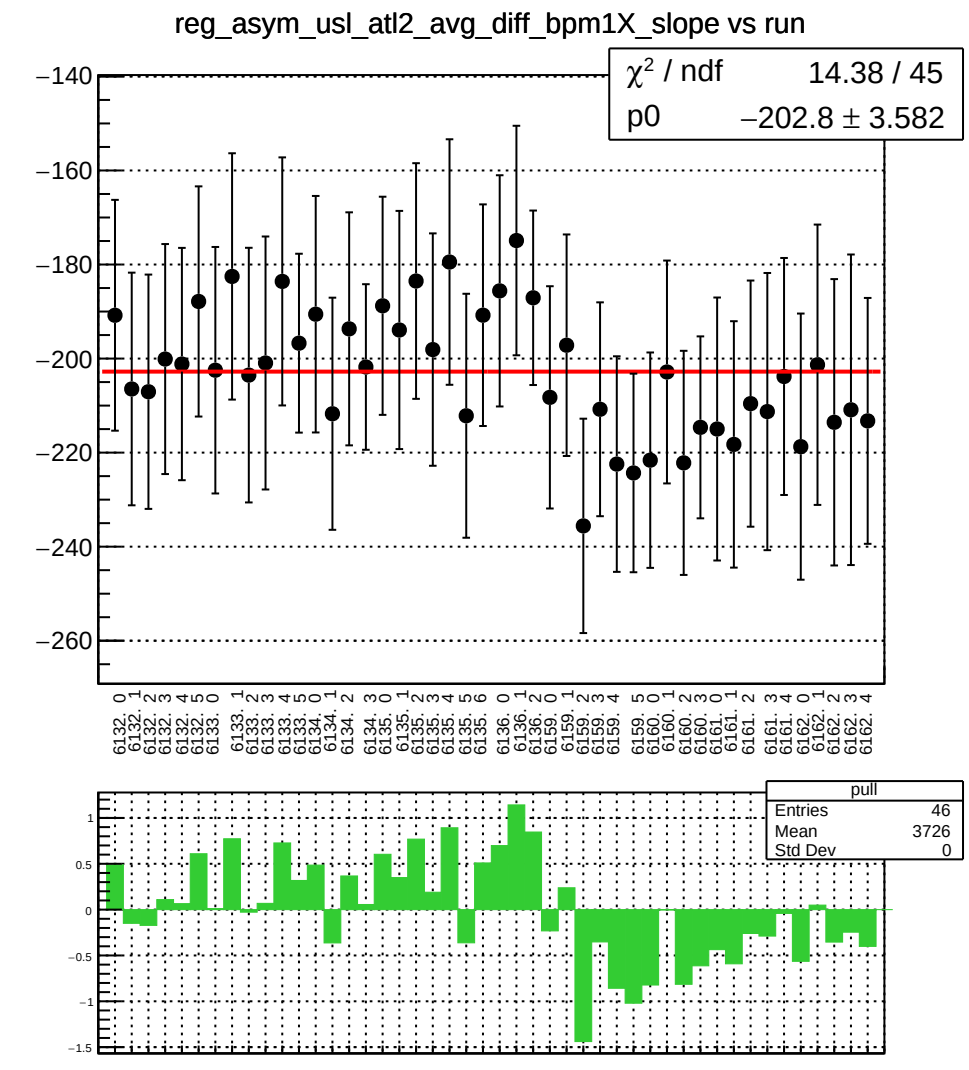

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.01 / 45
p0 −8.812 ± 1.541
pull
Entries 46
Mean 3.004e+04
Std Dev 0
pull1D
Entries 46
Mean −0.0001606
Std Dev 1.011

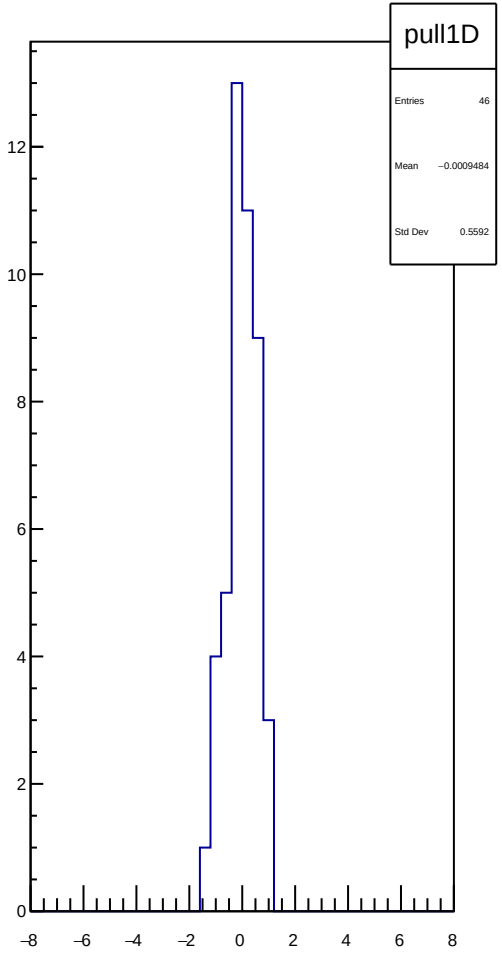

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.23 / 45
p0 −23.58 ± 1.564
pull
Entries 46
Mean −579.2
Std Dev 0
pull1D
Entries 46
Mean 0.005131
Std Dev 0.9116

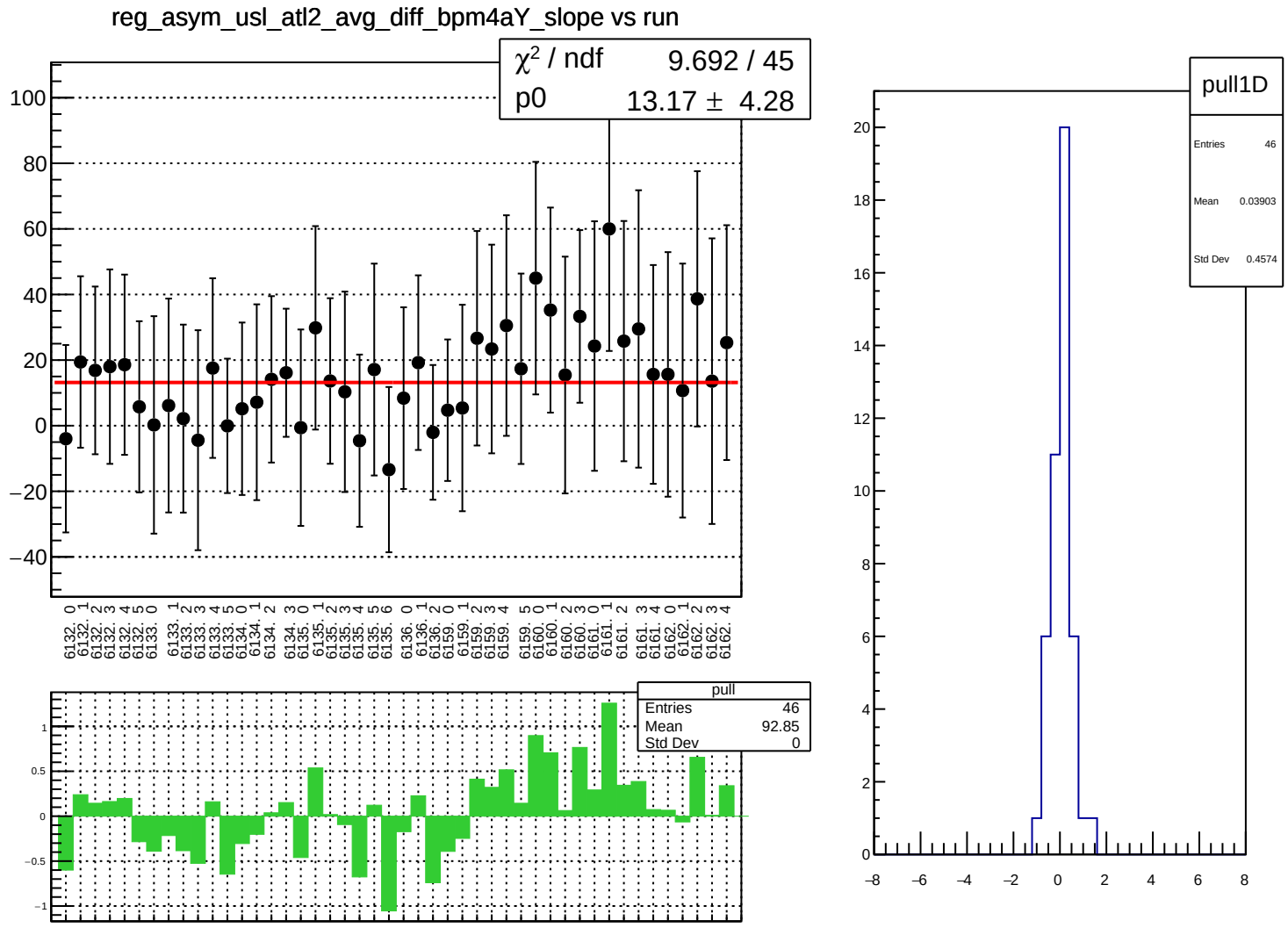

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 49.16 / 45
p0 25.91 ± 1.65
pull
Entries 46
Mean 2076
Std Dev 0
pull1D
Entries 46
Mean 0.002928
Std Dev 1.034

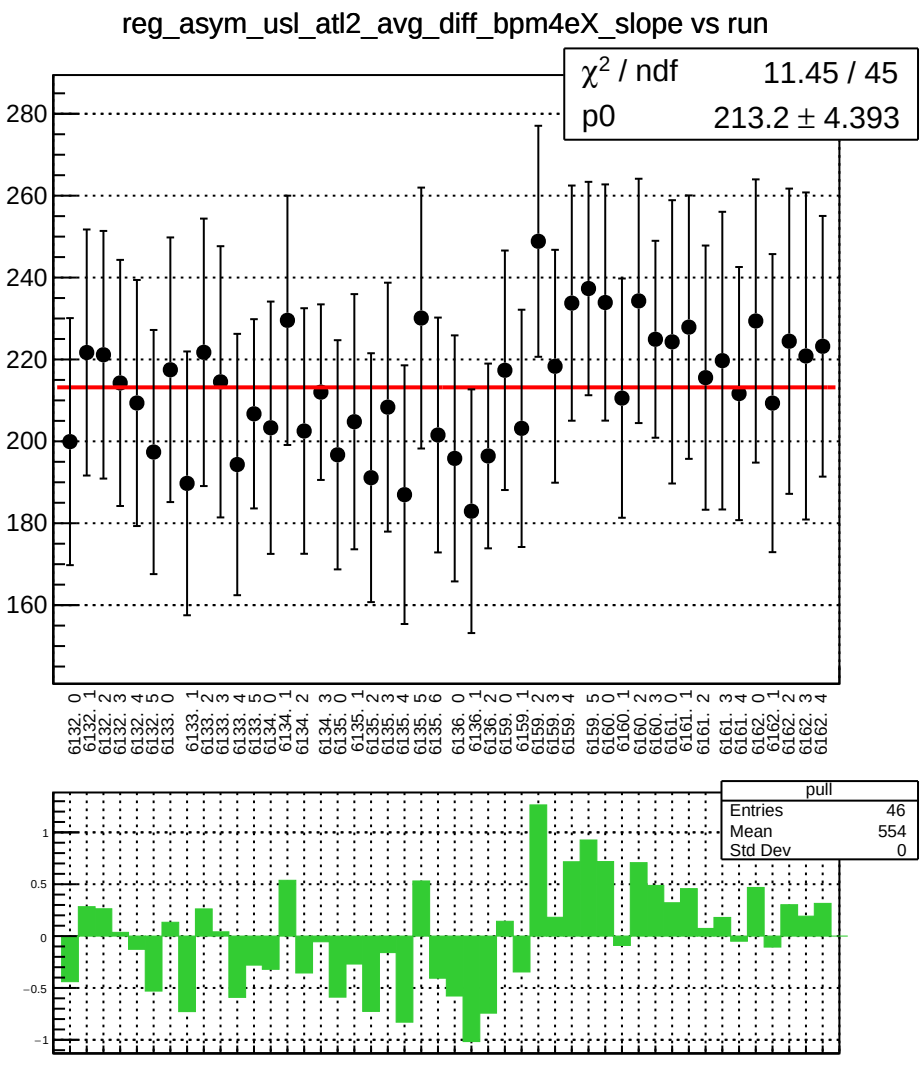

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 57.64 / 45
p0 −10.47 ± 0.1282
pull
Entries 46
Mean 796.6
Std Dev 0

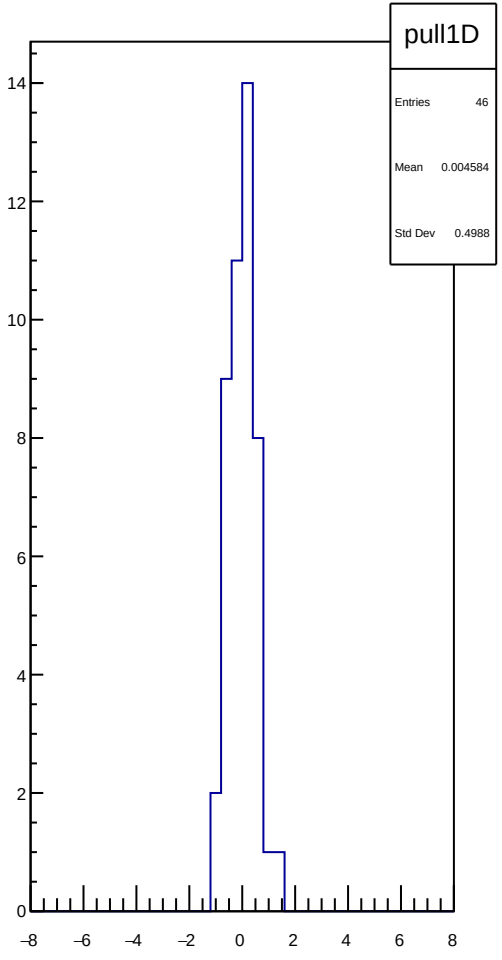

pull1D
Entries 46
Mean 0.01029
Std Dev 1.119

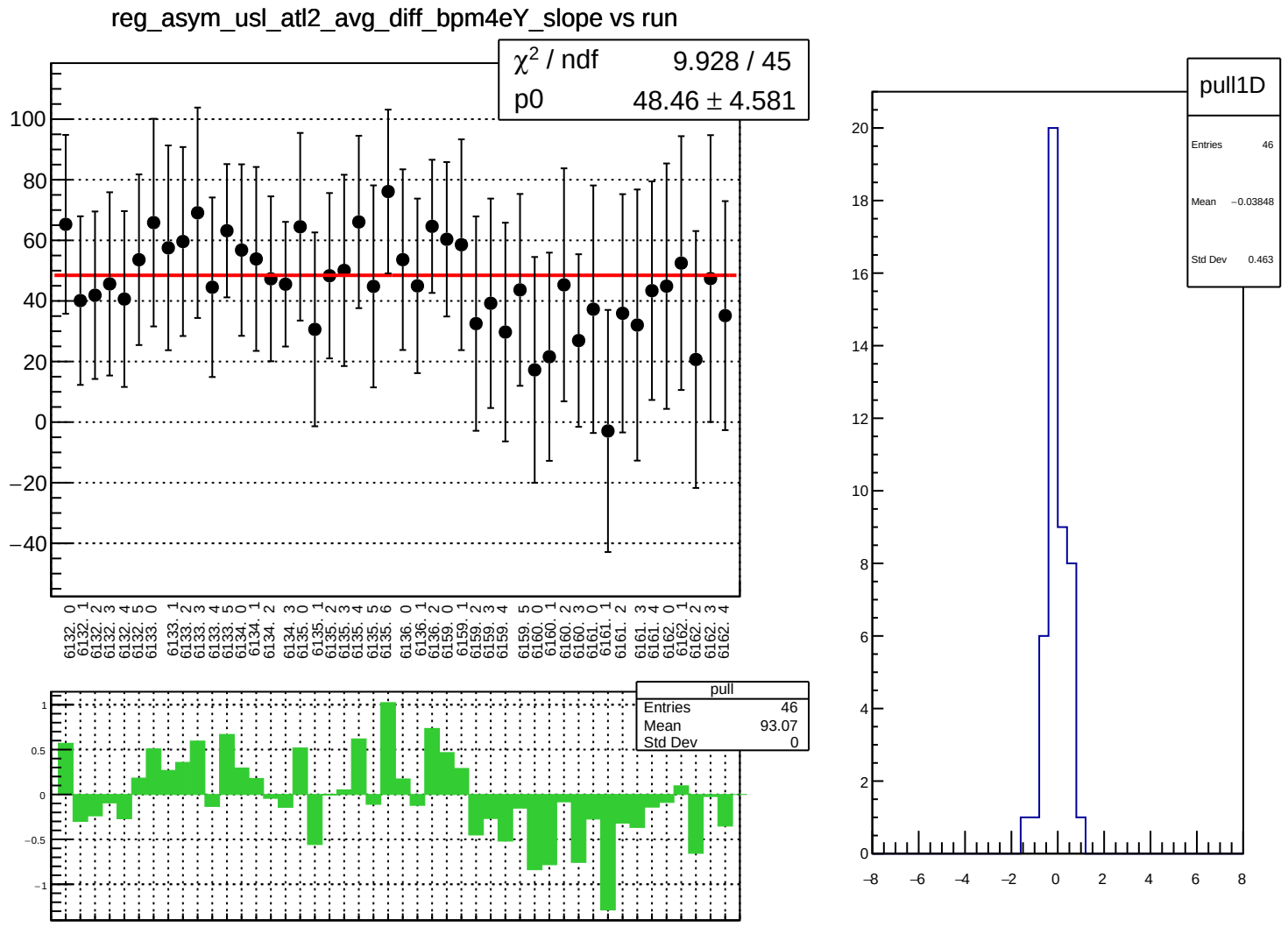

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 14.38 / 45
p0 −202.8 ± 3.582
pull
Entries 46
Mean 3726
Std Dev 0

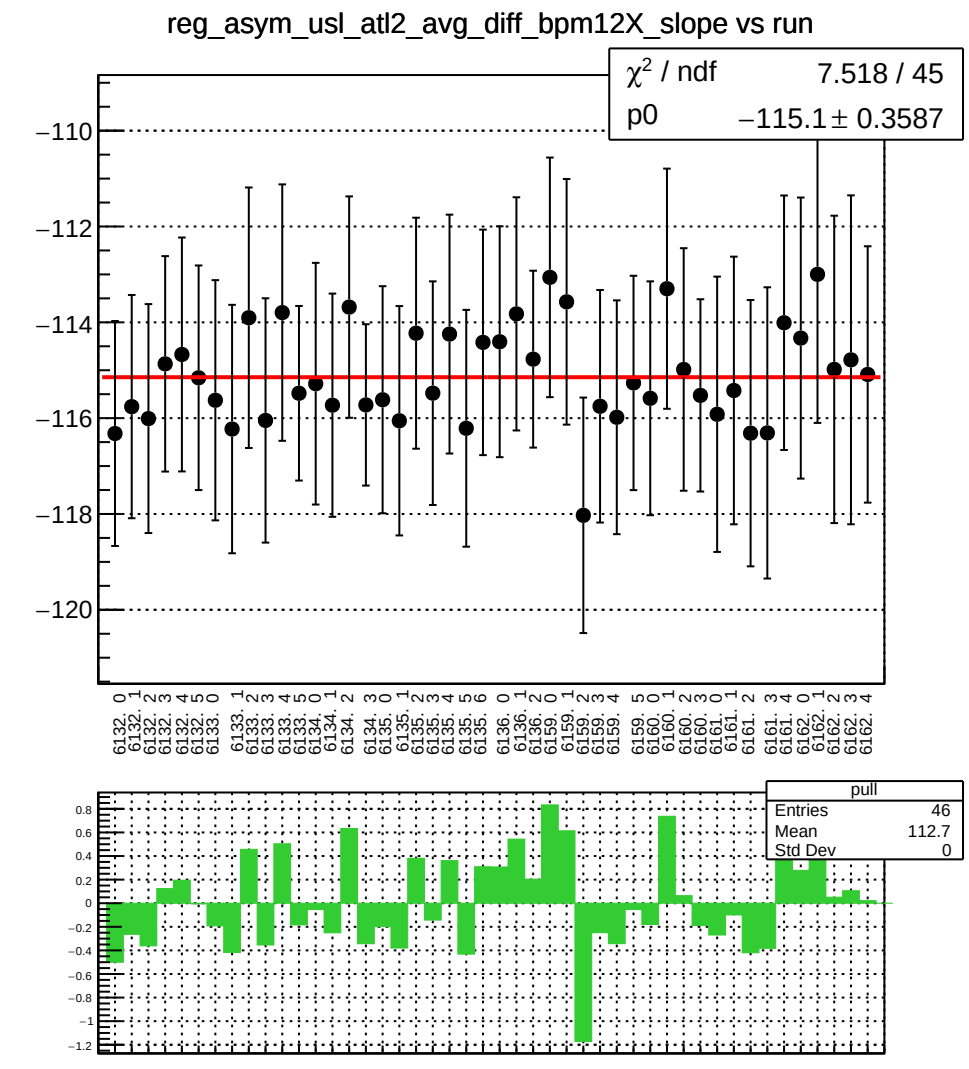

pull1D
Entries 46
Mean −0.0009484
Std Dev 0.5592

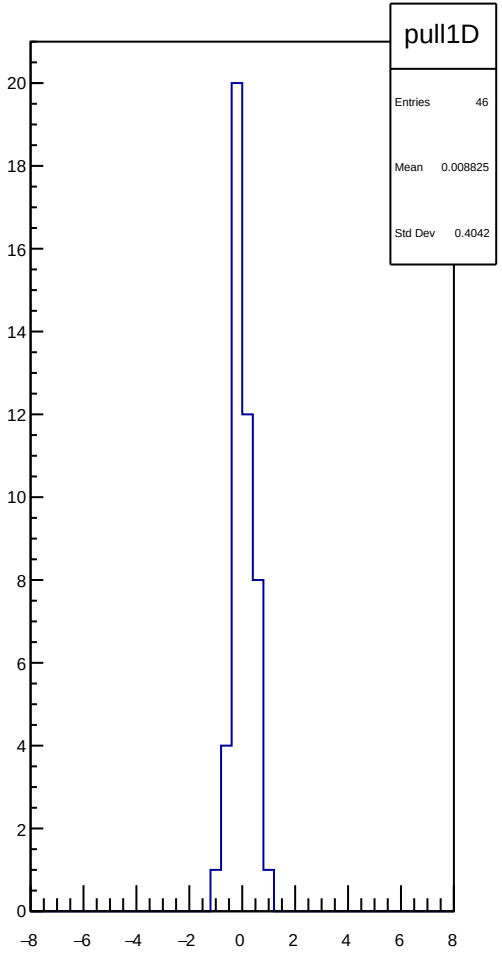

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.692 / 45
p0 13.17 ± 4.28
pull
Entries 46
Mean 92.85
Std Dev 0
pull1D
Entries 46
Mean 0.03903
Std Dev 0.4574

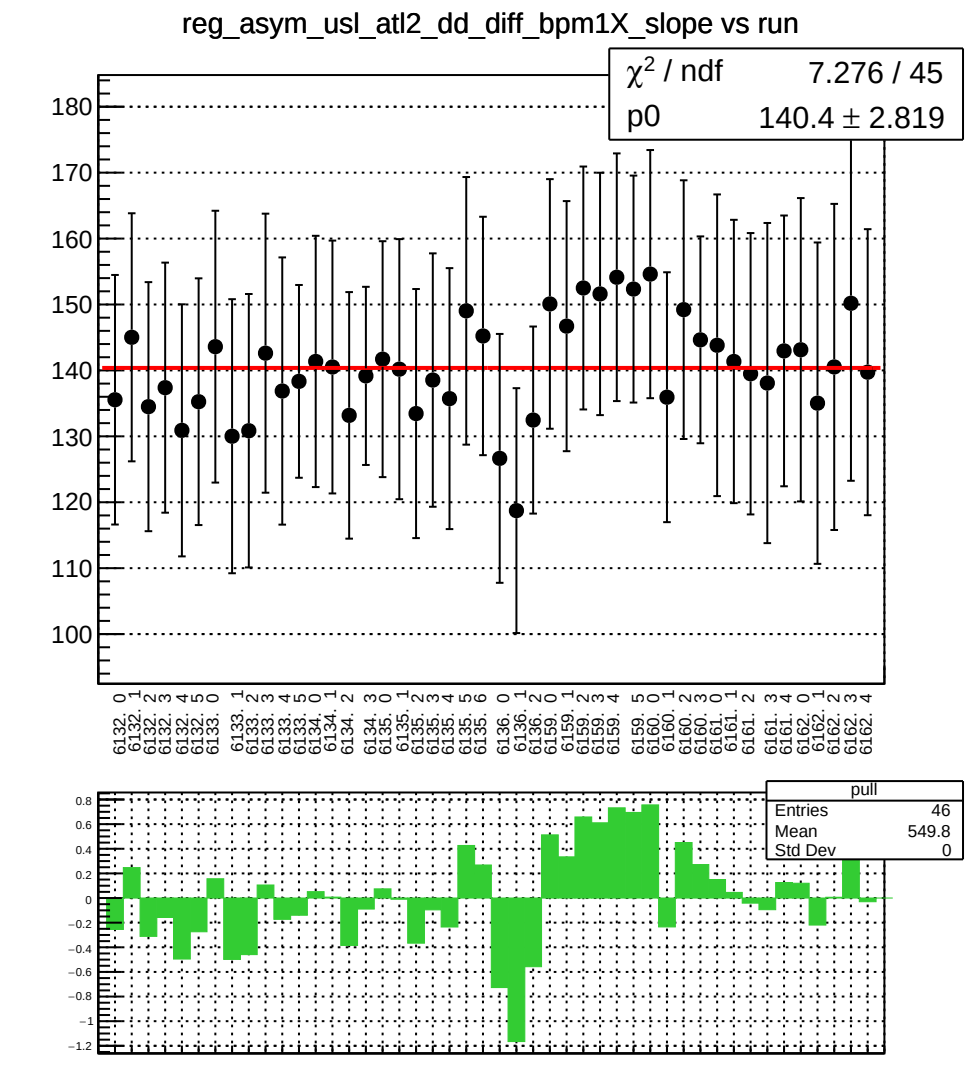

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.45 / 45
p0 213.2 ± 4.393
pull
Entries 46
Mean 554
Std Dev 0

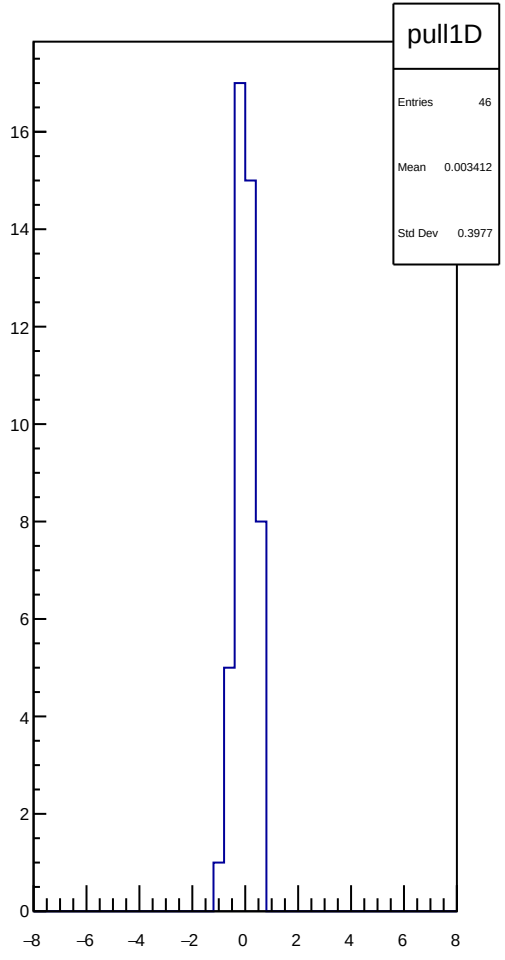

pull1D
Entries 46
Mean 0.004584
Std Dev 0.4988

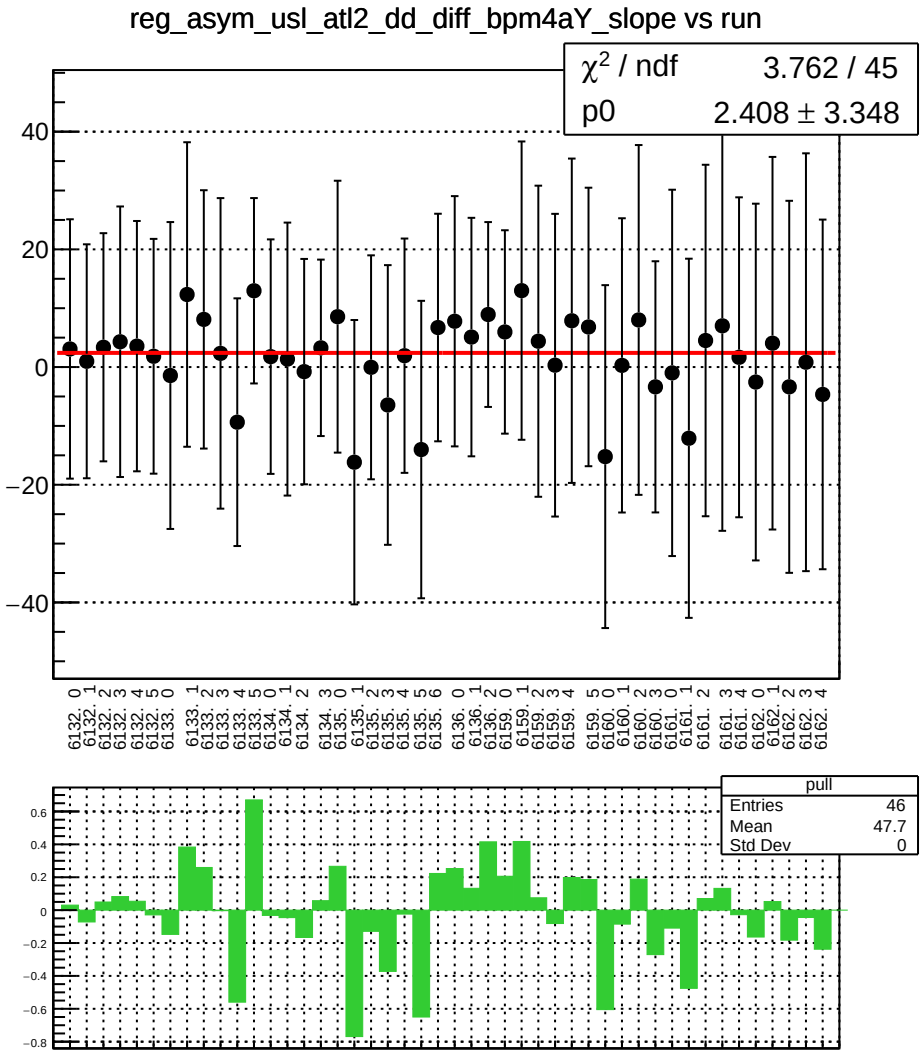

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.928 / 45
p0 48.46 ± 4.581
pull
Entries 46
Mean 93.07
Std Dev 0
pull1D
Entries 46
Mean −0.03848
Std Dev 0.463

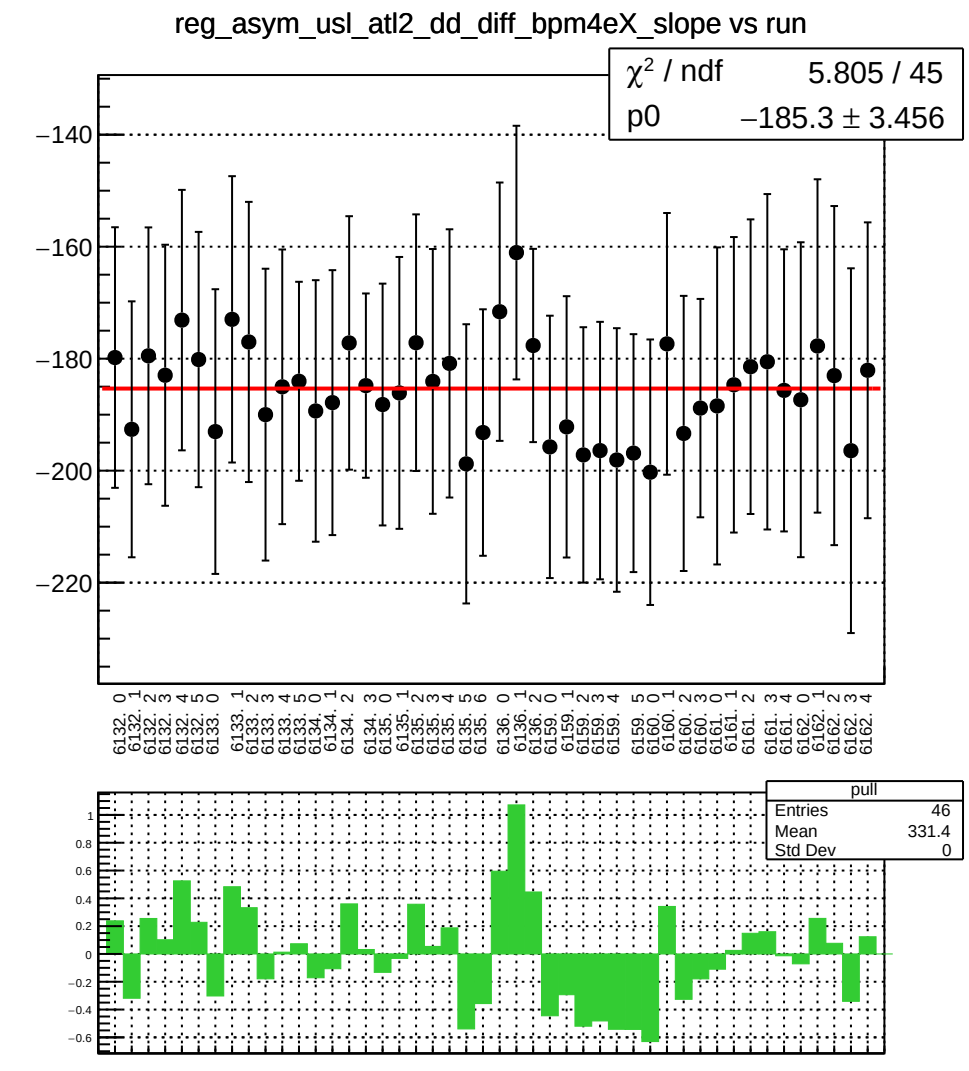

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 7.518 / 45
p0 −115.1 ± 0.3587
−110
−112
−114
−116
−118
−120
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 112.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

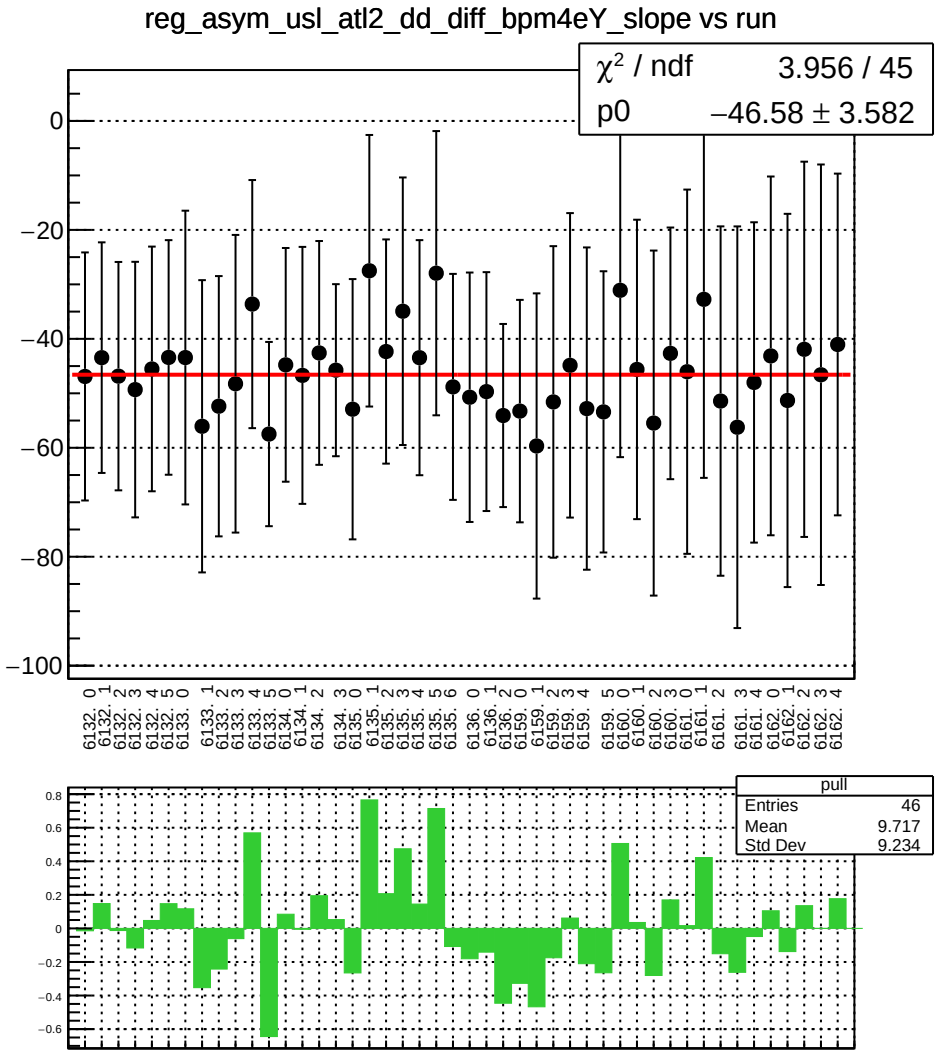

pull1D
Entries 46
Mean 0.008825
Std Dev 0.4042
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

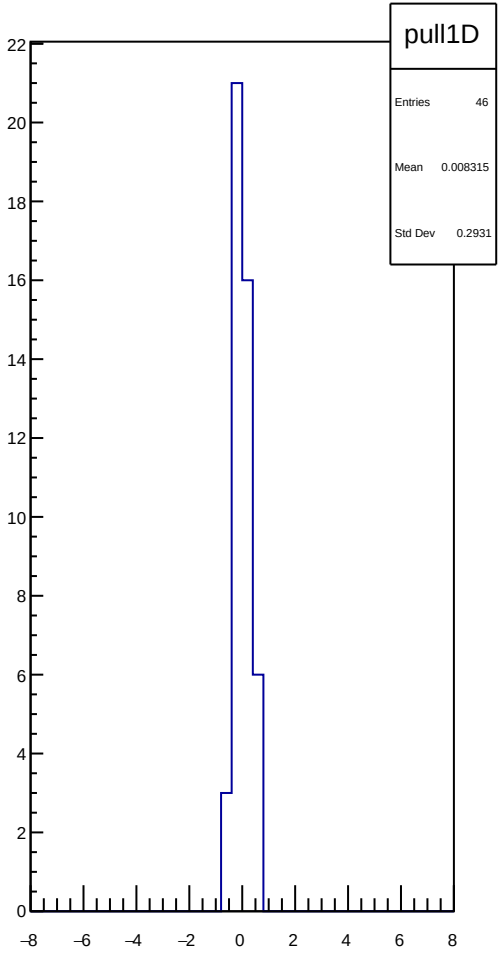

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 7.276 / 45
p0 140.4 ± 2.819
pull
Entries 46
Mean 549.8
Std Dev 0

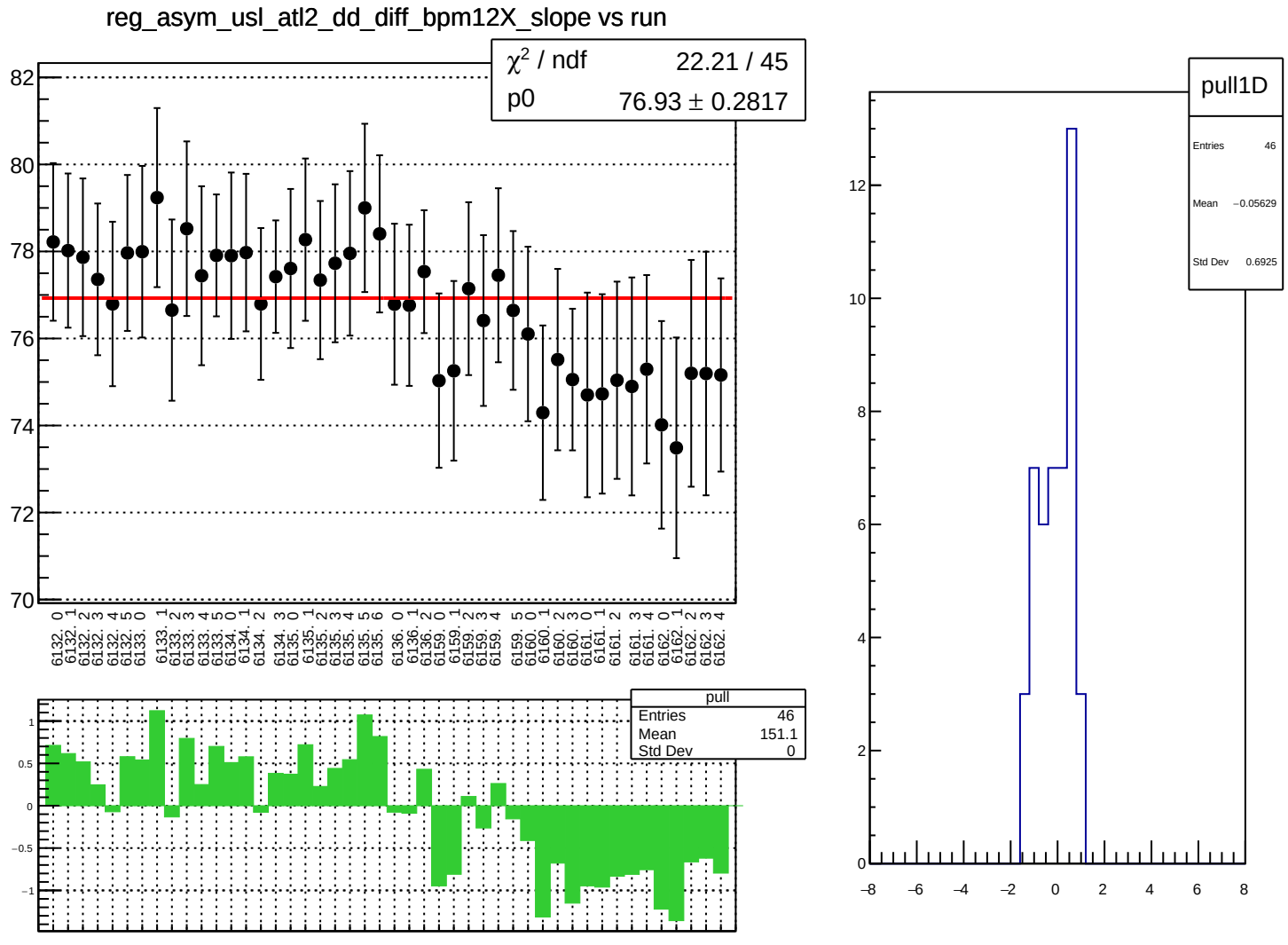

pull1D
Entries 46
Mean 0.003412
Std Dev 0.3977

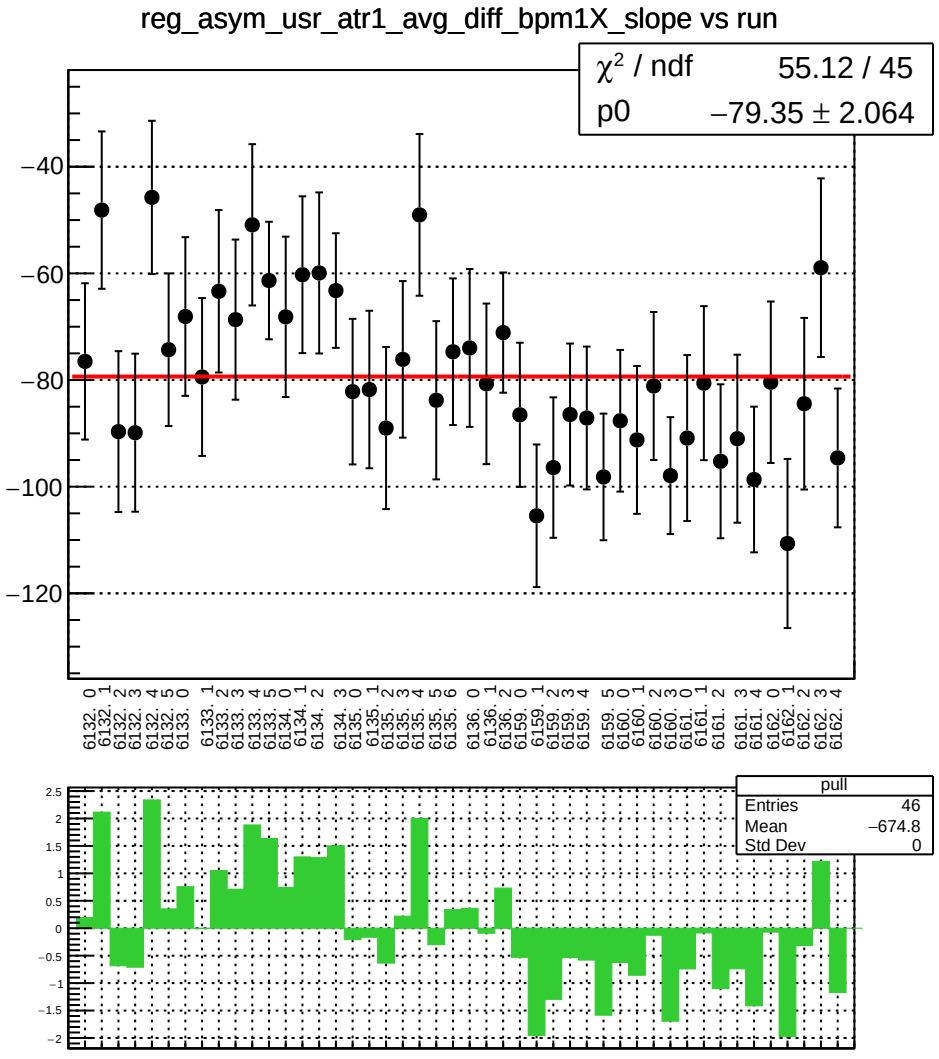

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.762 / 45
p0 2.408 ± 3.348
pull
Entries 46
Mean 47.7
Std Dev 0
pull1D
Entries 46
Mean −0.01911
Std Dev 0.2853

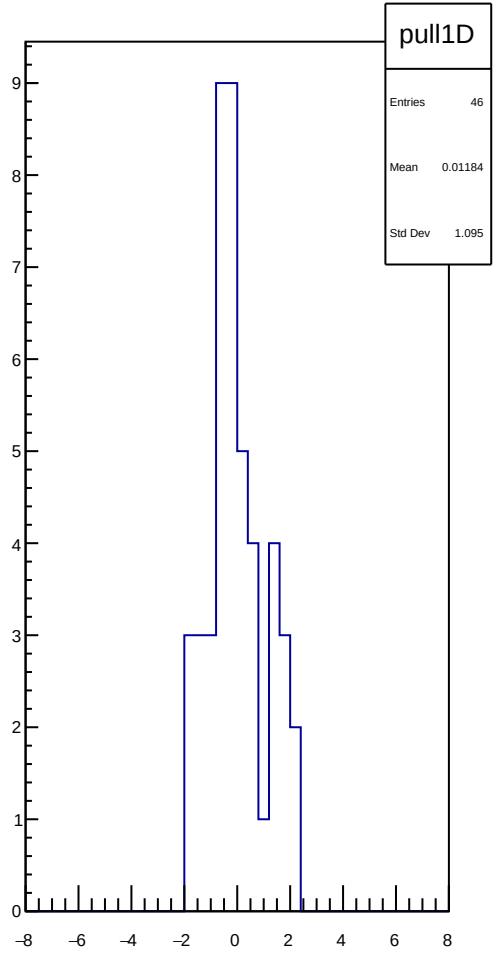

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.805 / 45
p0 −185.3 ± 3.456
−140
−160
−180
−200
−220
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 331.4
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 46
Mean −0.003151
Std Dev 0.3552
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

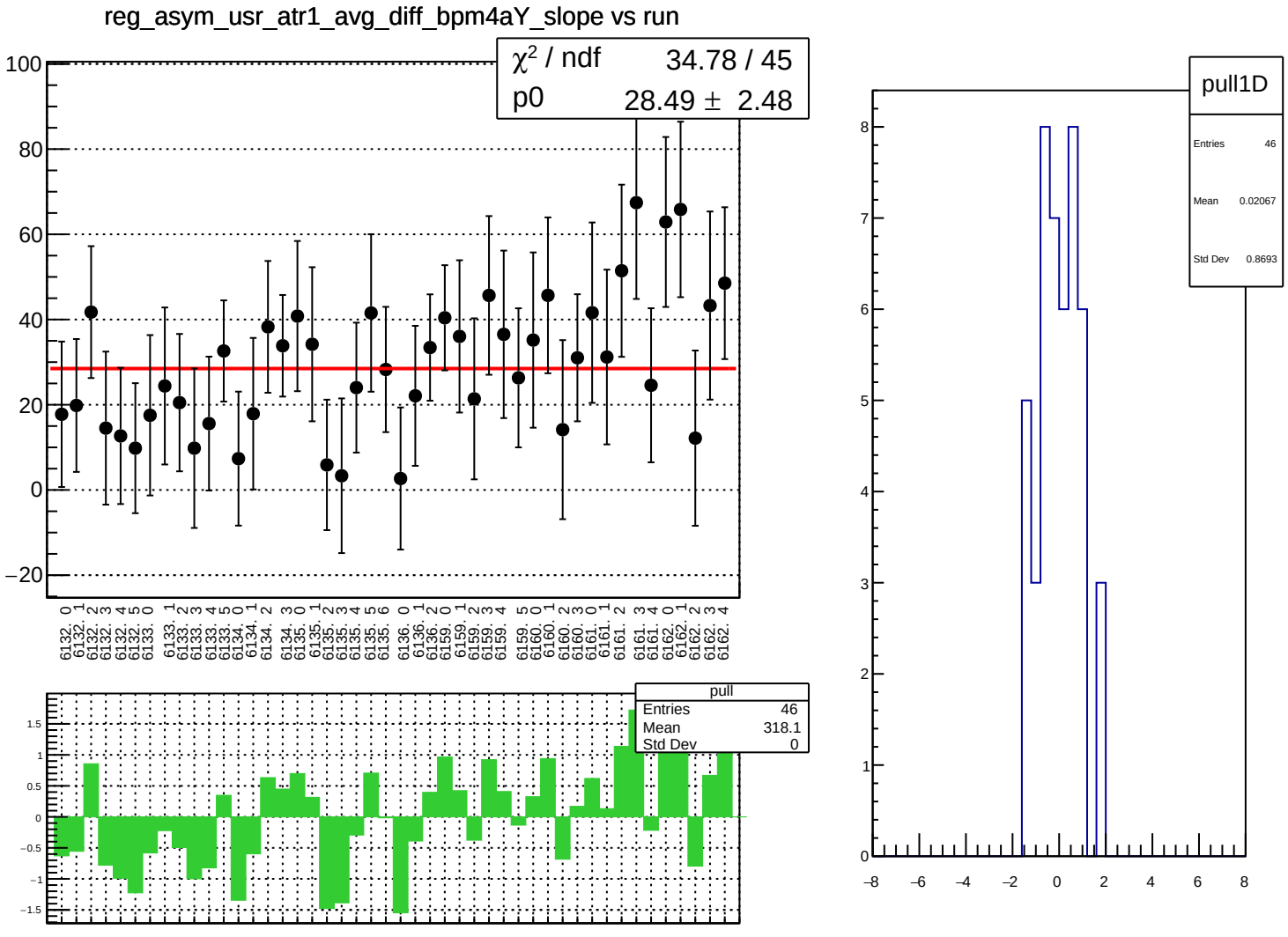

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.956 / 45
p0 −46.58 ± 3.582
pull
Entries 46
Mean 9.717
Std Dev 9.234

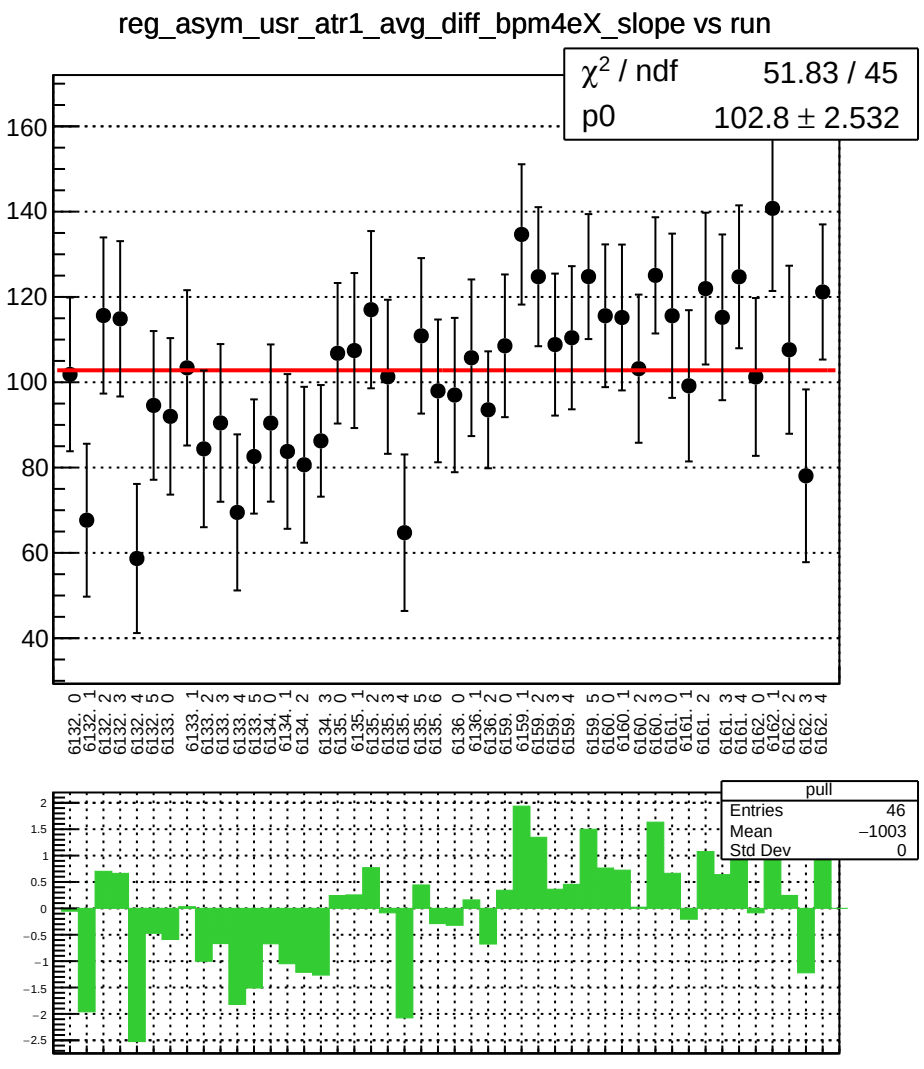

pull1D
Entries 46
Mean 0.008315
Std Dev 0.2931

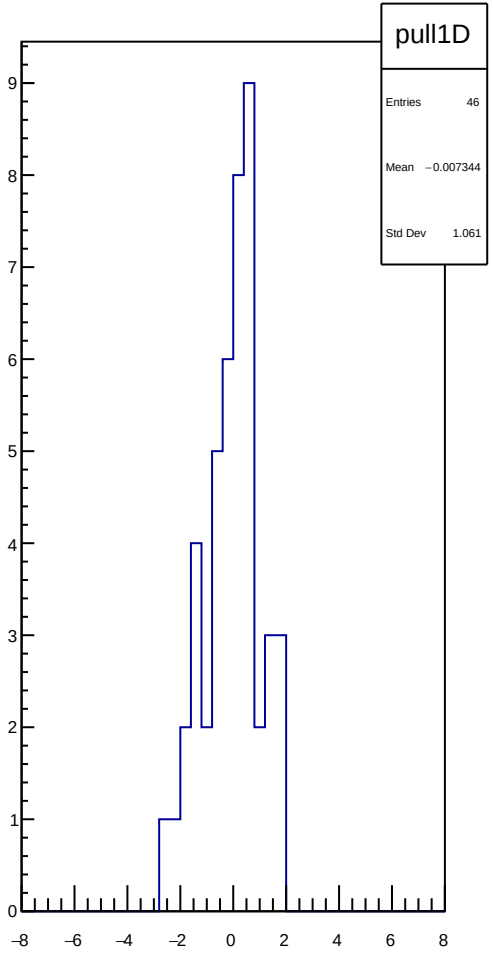

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 22.21 / 45
p0 76.93 ± 0.2817
pull
Entries 46
Mean 151.1
Std Dev 0
pull1D
Entries 46
Mean −0.05629
Std Dev 0.6925

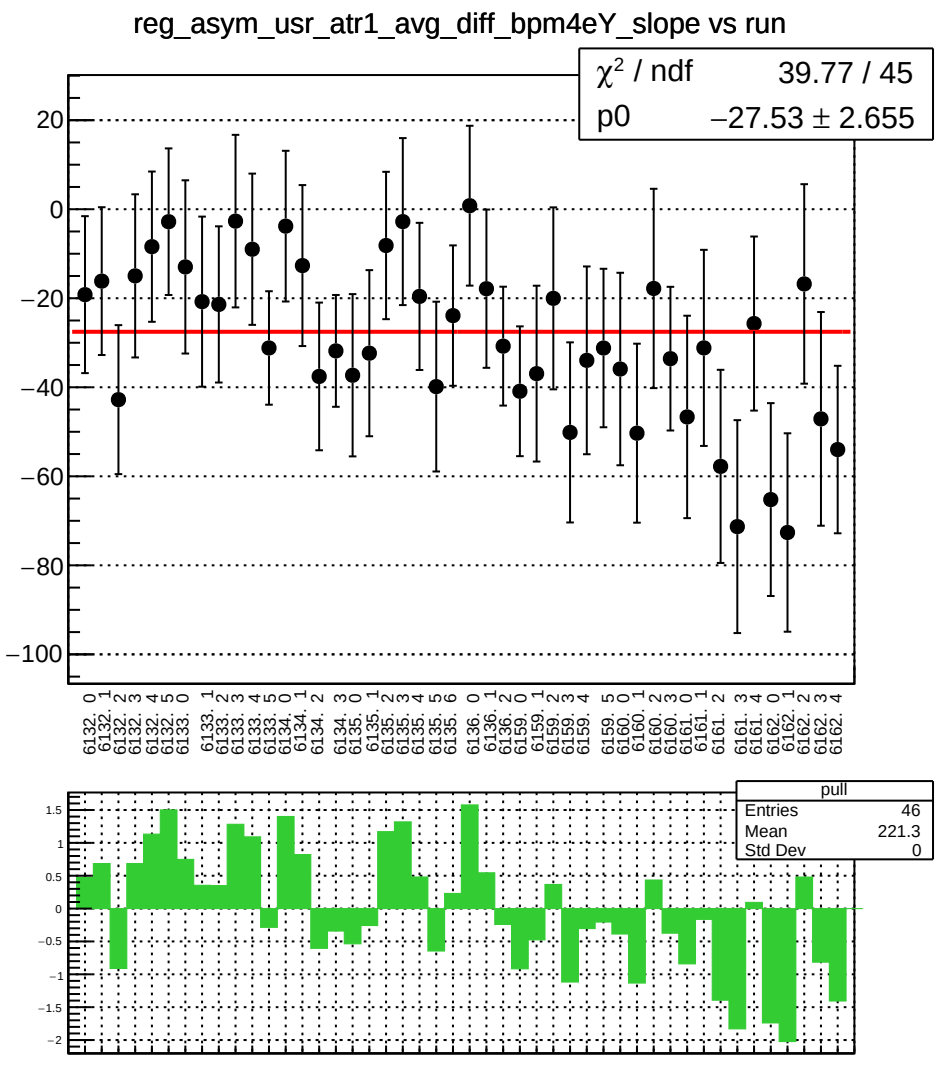

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 55.12 / 45
p0 −79.35 ± 2.064
pull
Entries 46
Mean −674.8
Std Dev 0

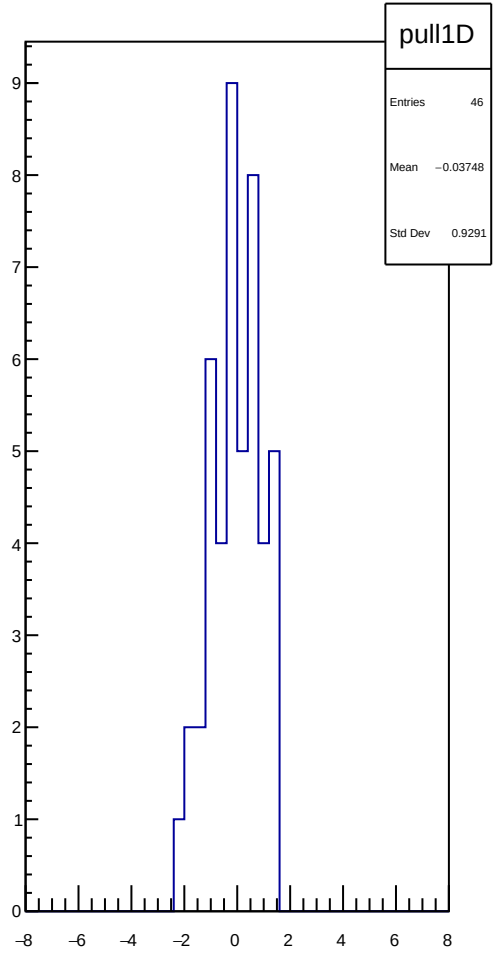

pull1D
Entries 46
Mean 0.01184
Std Dev 1.095

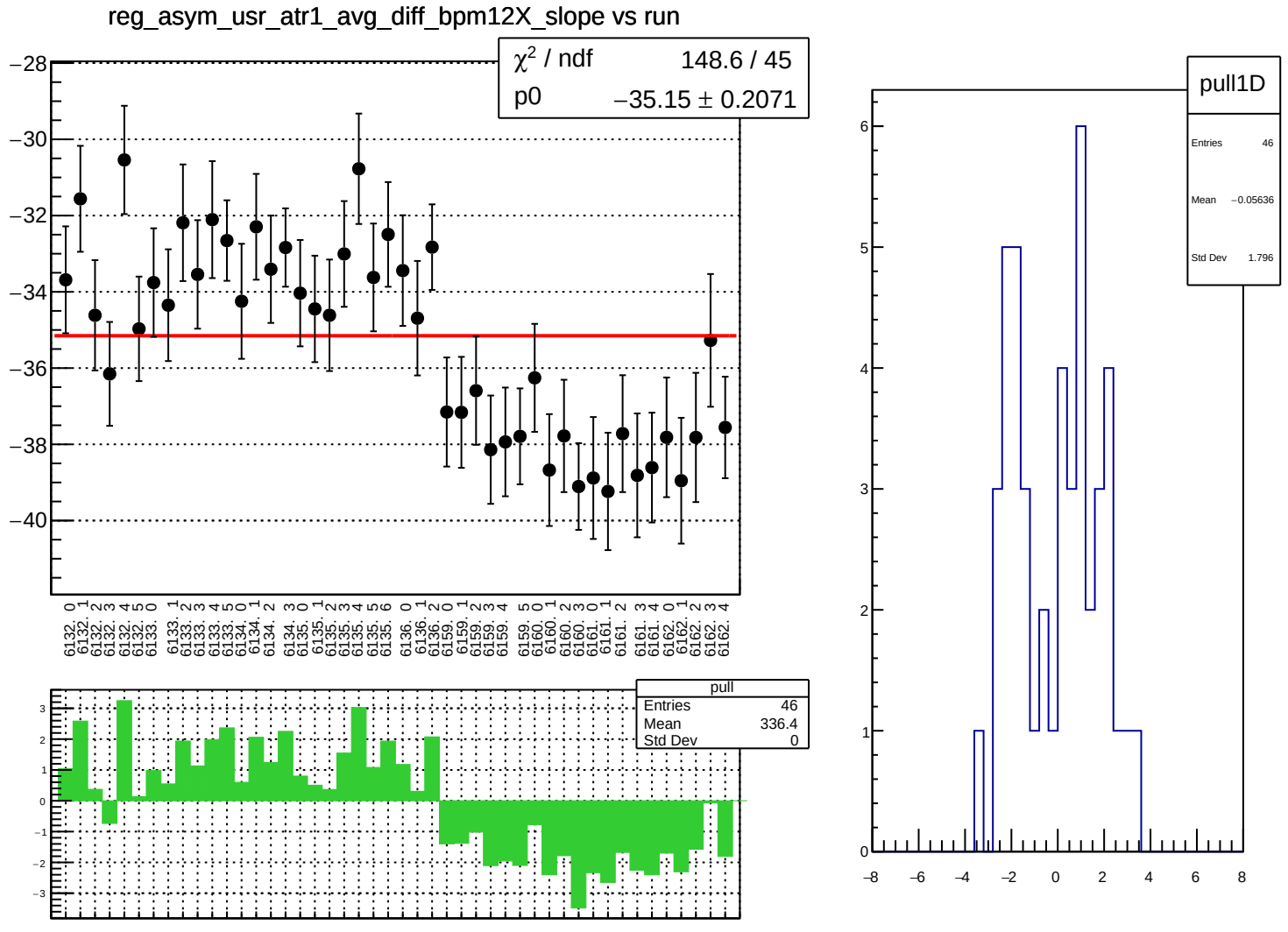

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 34.78 / 45
p0 28.49 ± 2.48
pull
Entries 46
Mean 318.1
Std Dev 0
pull1D
Entries 46
Mean 0.02067
Std Dev 0.8693

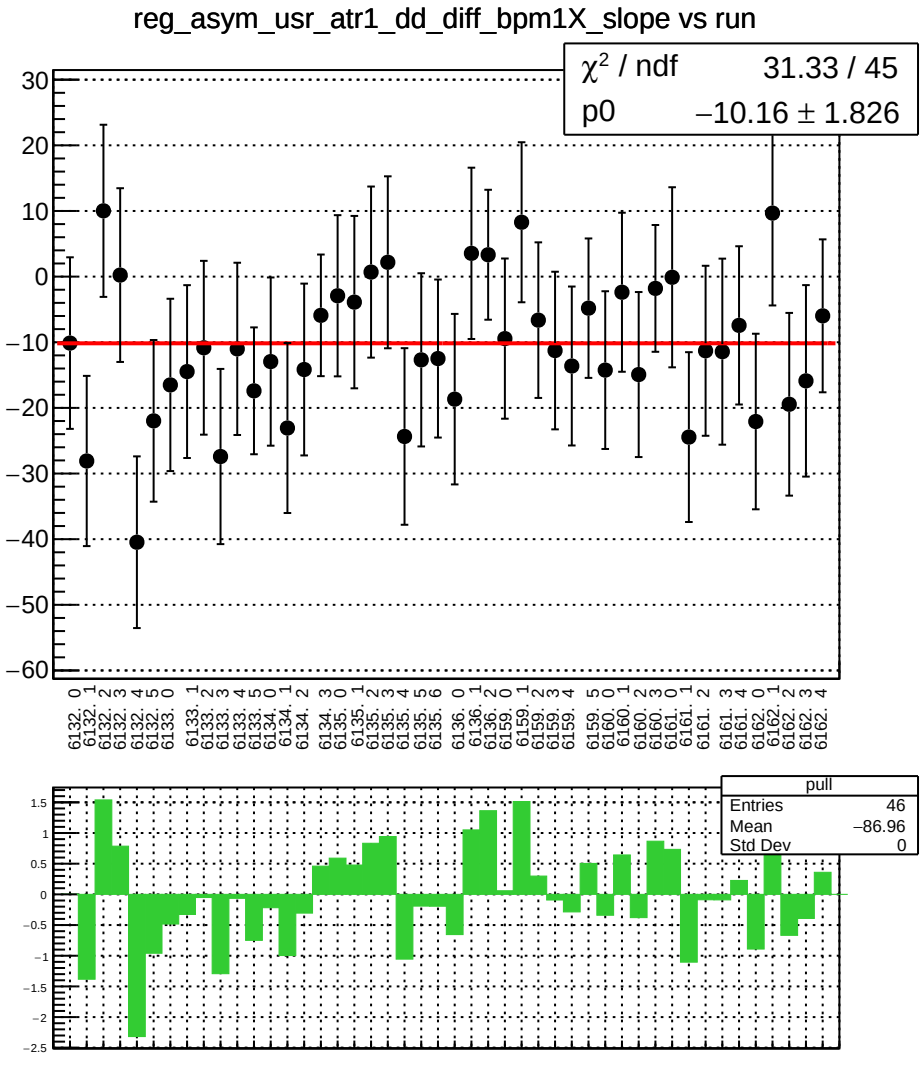

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 51.83 / 45
p0 102.8 ± 2.532
160
140
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1003
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

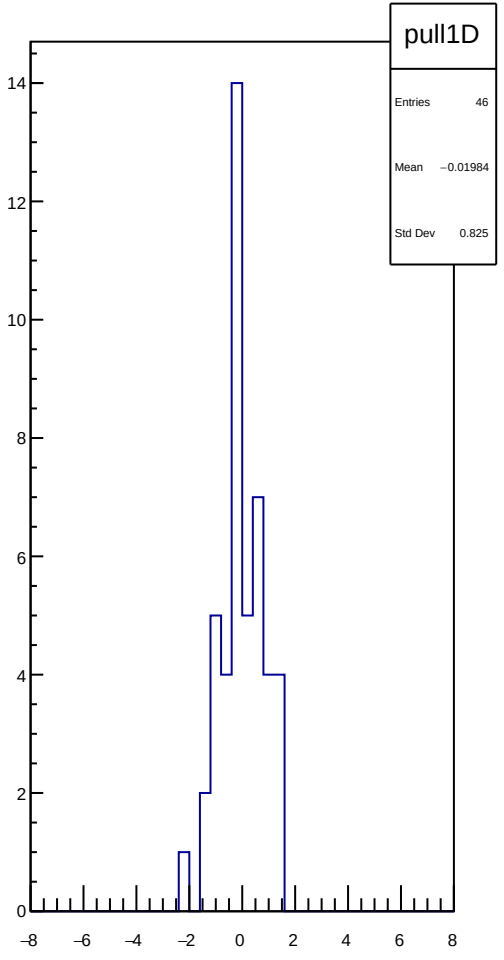

pull1D
Entries 46
Mean −0.007344
Std Dev 1.061
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

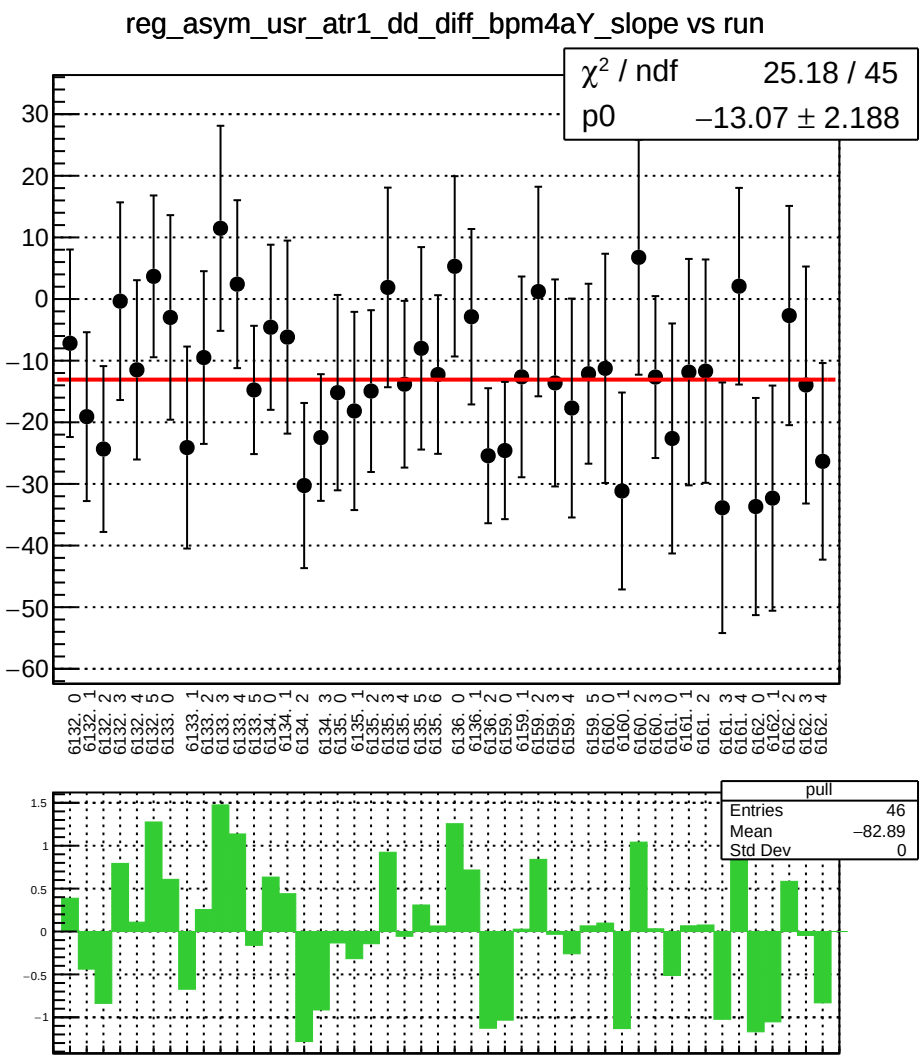

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 39.77 / 45
p0 −27.53 ± 2.655
pull
Entries 46
Mean 221.3
Std Dev 0

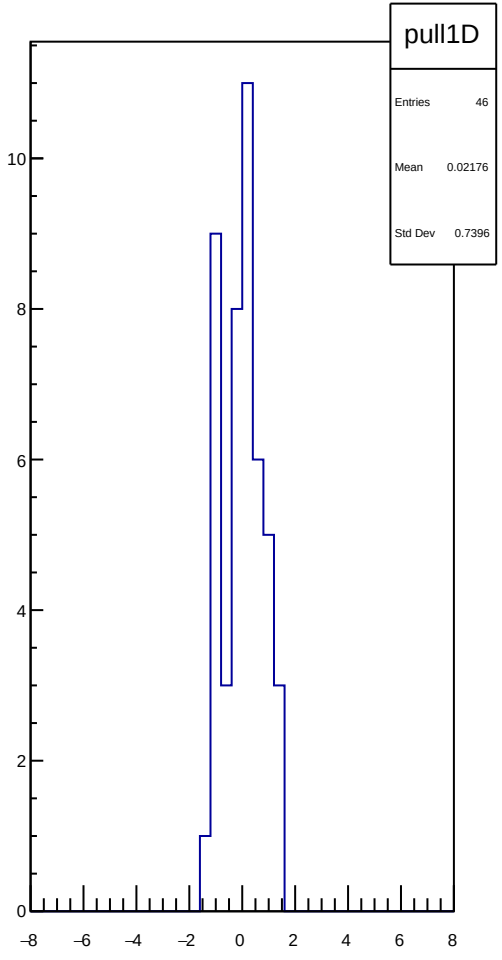

pull1D
Entries 46
Mean −0.03748
Std Dev 0.9291

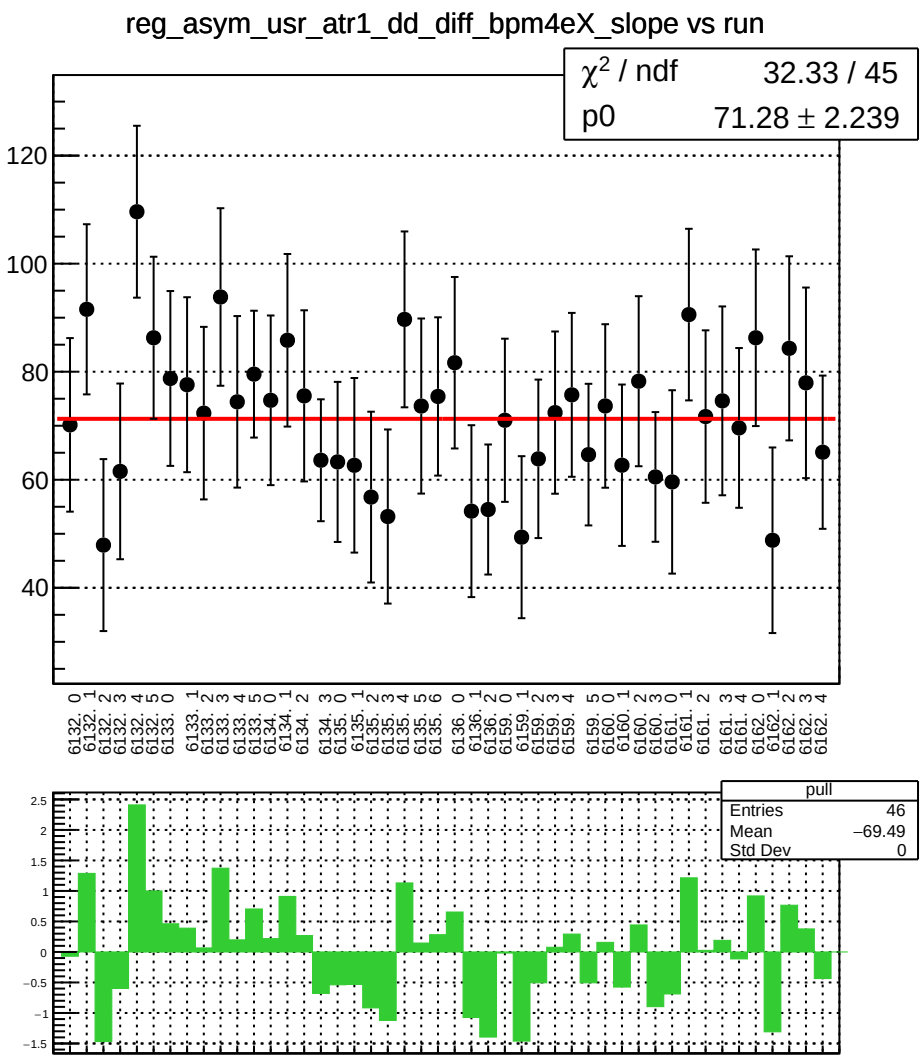

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 148.6 / 45
p0 −35.15 ± 0.2071
pull
Entries 46
Mean 336.4
Std Dev 0
pull1D
Entries 46
Mean −0.05636
Std Dev 1.796

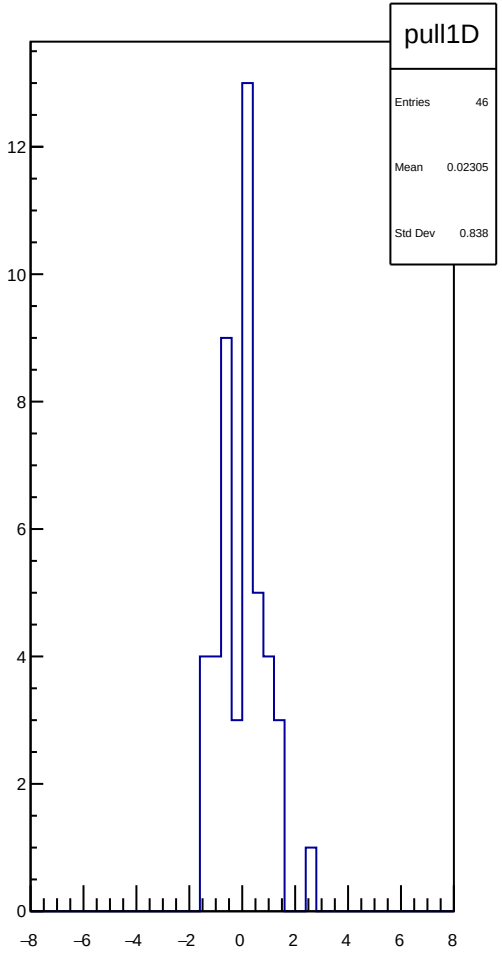

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 31.33 / 45
p0 −10.16 ± 1.826
pull
Entries 46
Mean −86.96
Std Dev 0

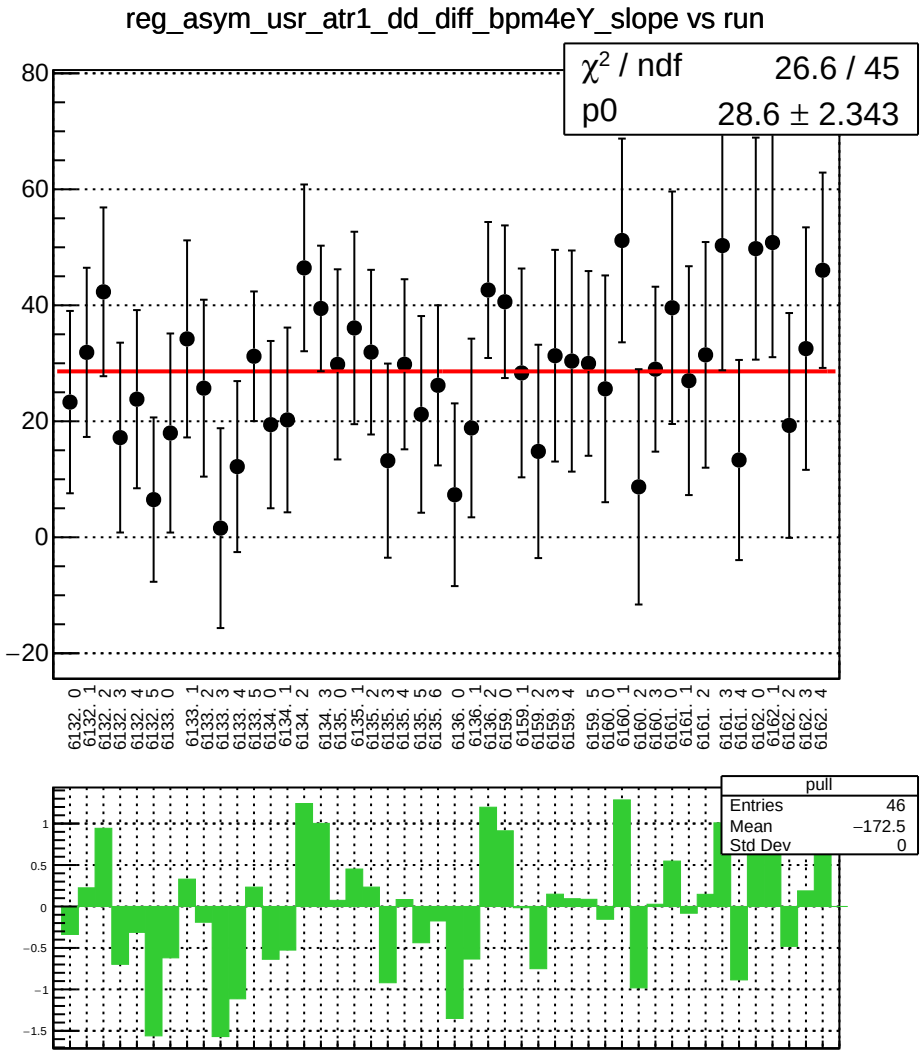

pull1D
Entries 46
Mean −0.01984
Std Dev 0.825

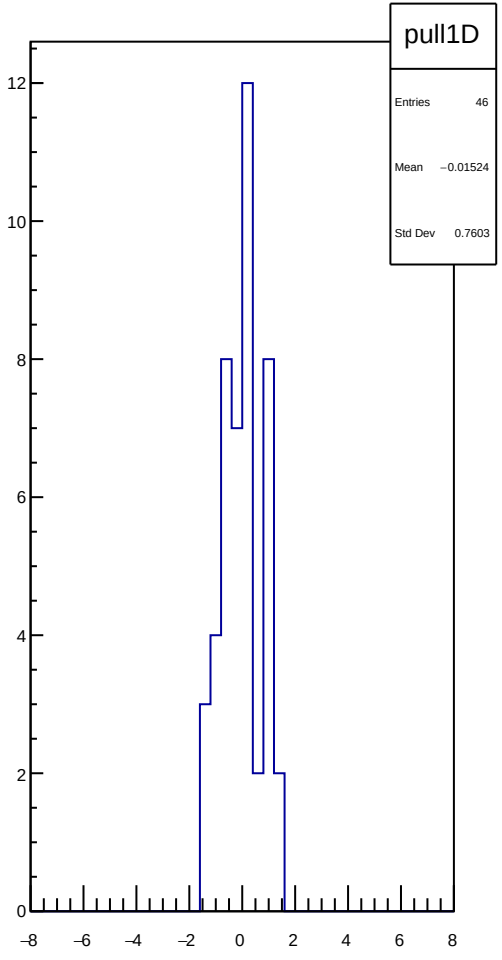

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.18 / 45
p0 −13.07 ± 2.188
pull
Entries 46
Mean −82.89
Std Dev 0

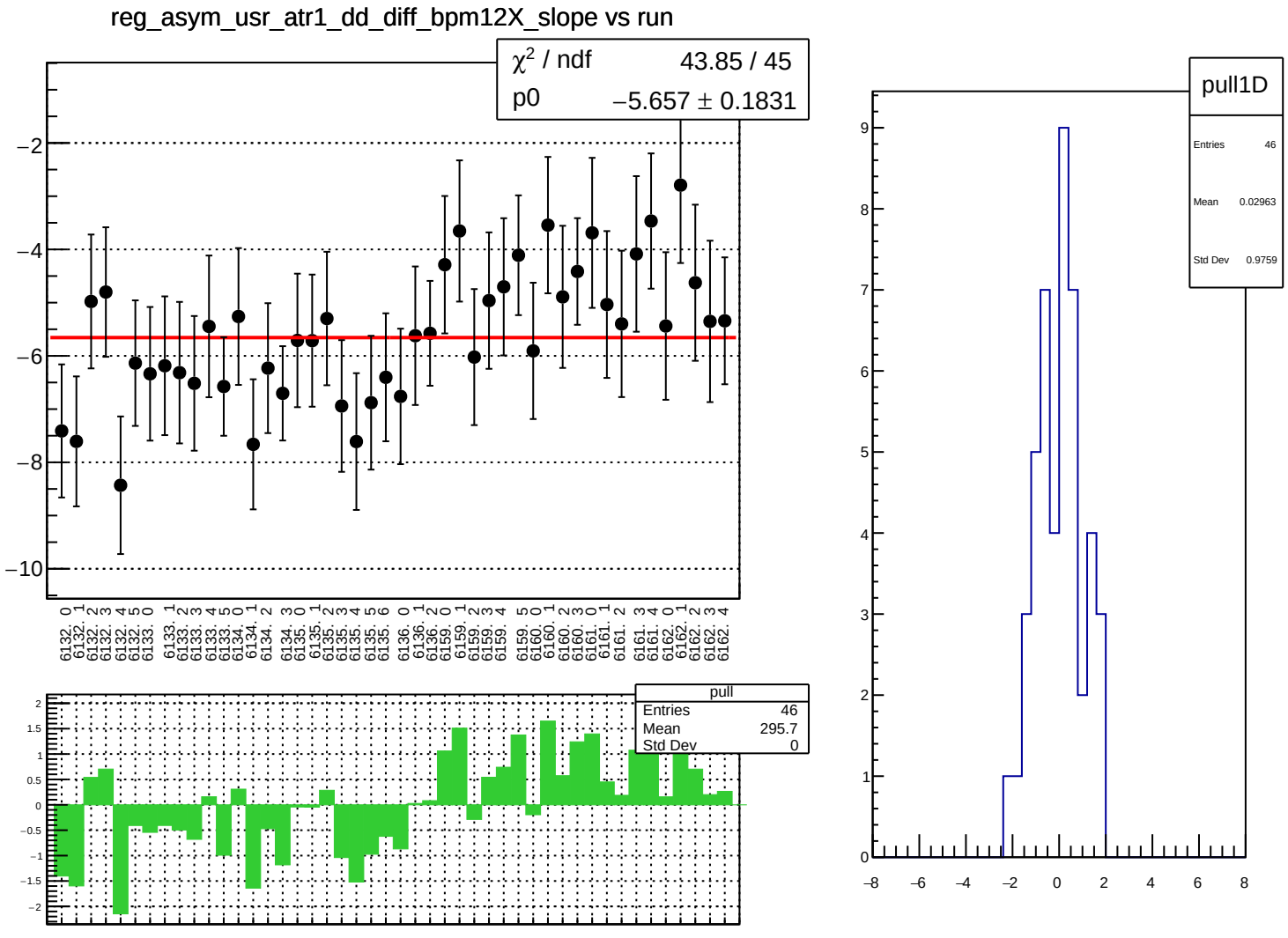

pull1D
Entries 46
Mean 0.02176
Std Dev 0.7396

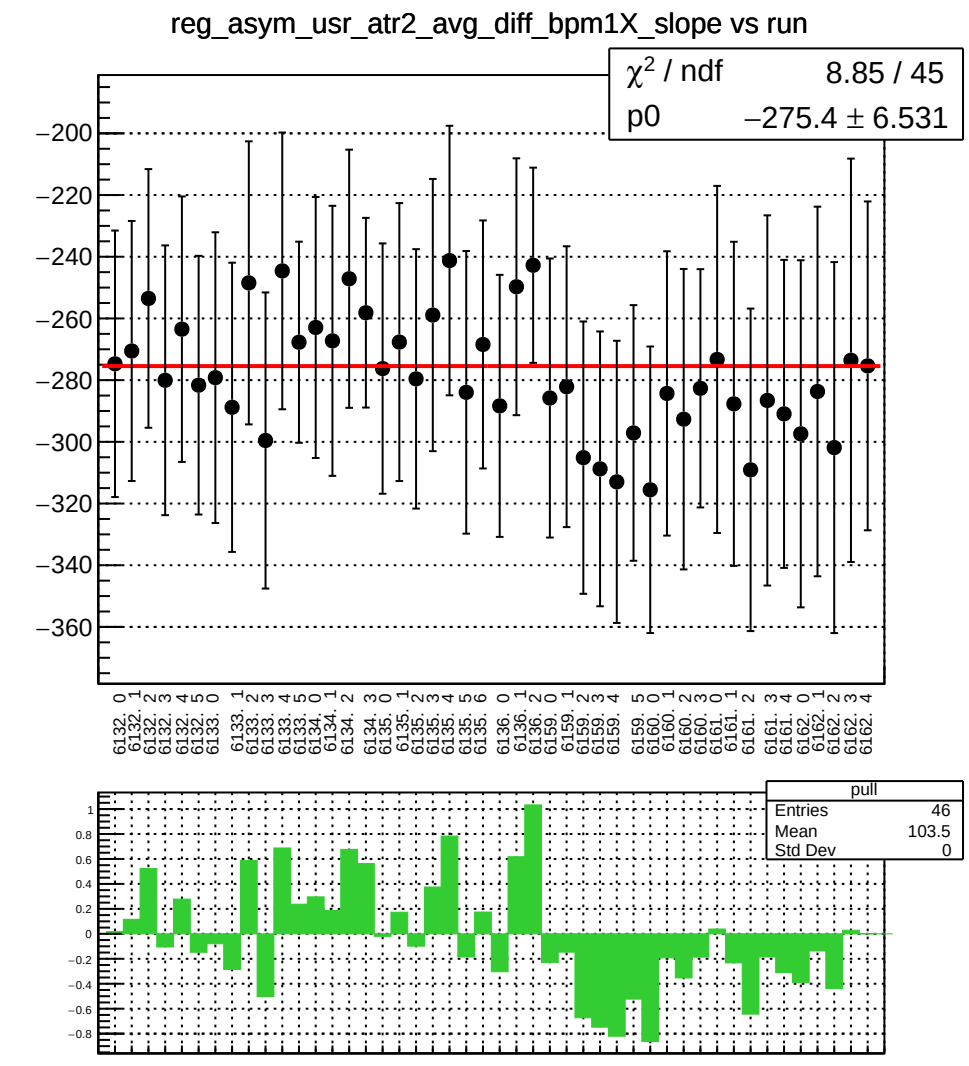

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.33 / 45
p0 71.28 ± 2.239
120
100
80
60
40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −69.49
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

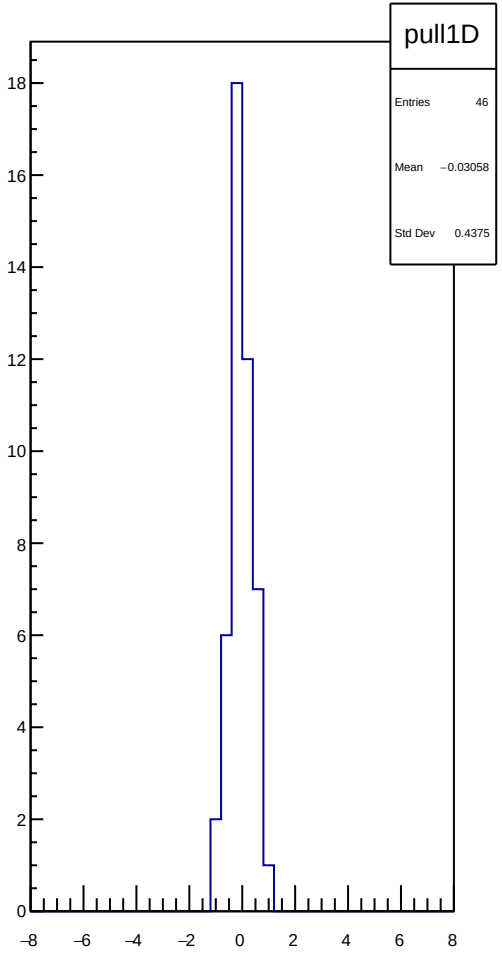

pull1D
Entries 46
Mean 0.02305
Std Dev 0.838
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

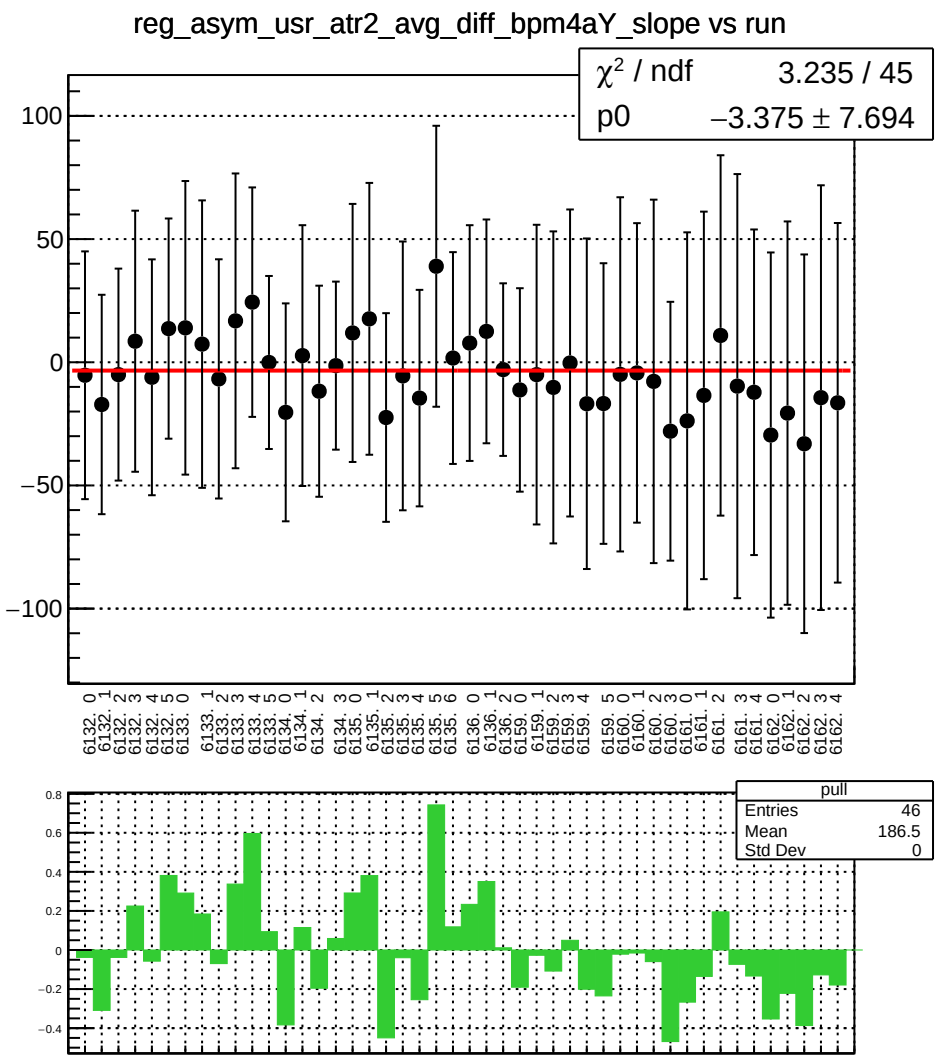

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.6 / 45
p0 28.6 ± 2.343
pull
Entries 46
Mean −172.5
Std Dev 0

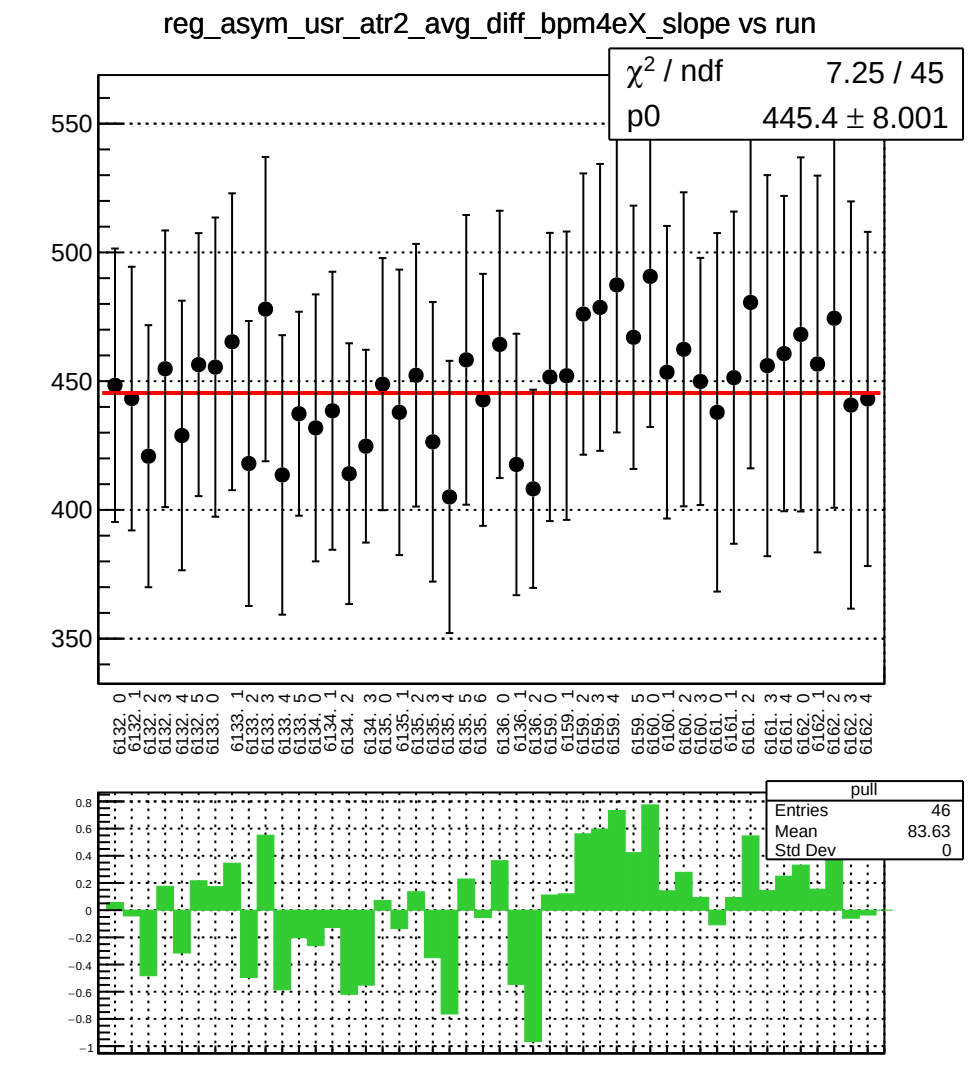

pull1D
Entries 46
Mean −0.01524
Std Dev 0.7603

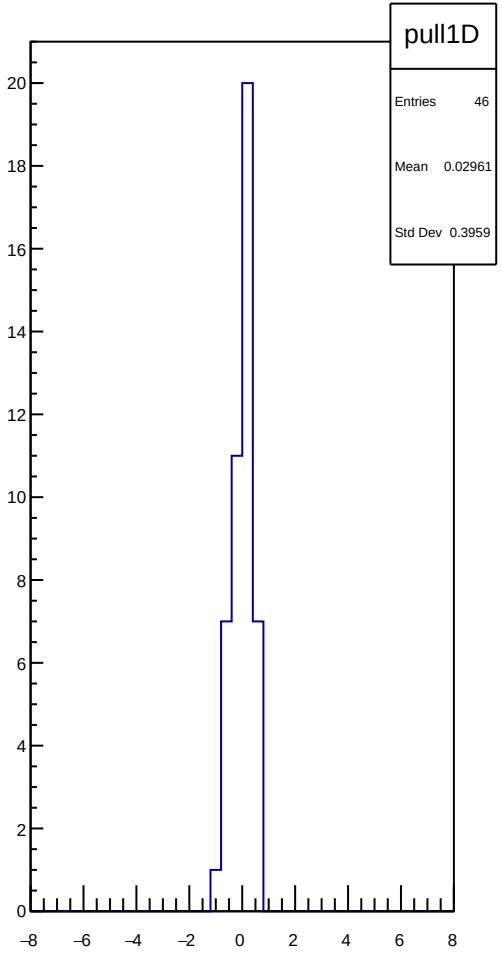

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 43.85 / 45
p0 −5.657 ± 0.1831
pull
Entries 46
Mean 295.7
Std Dev 0
pull1D
Entries 46
Mean 0.02963
Std Dev 0.9759

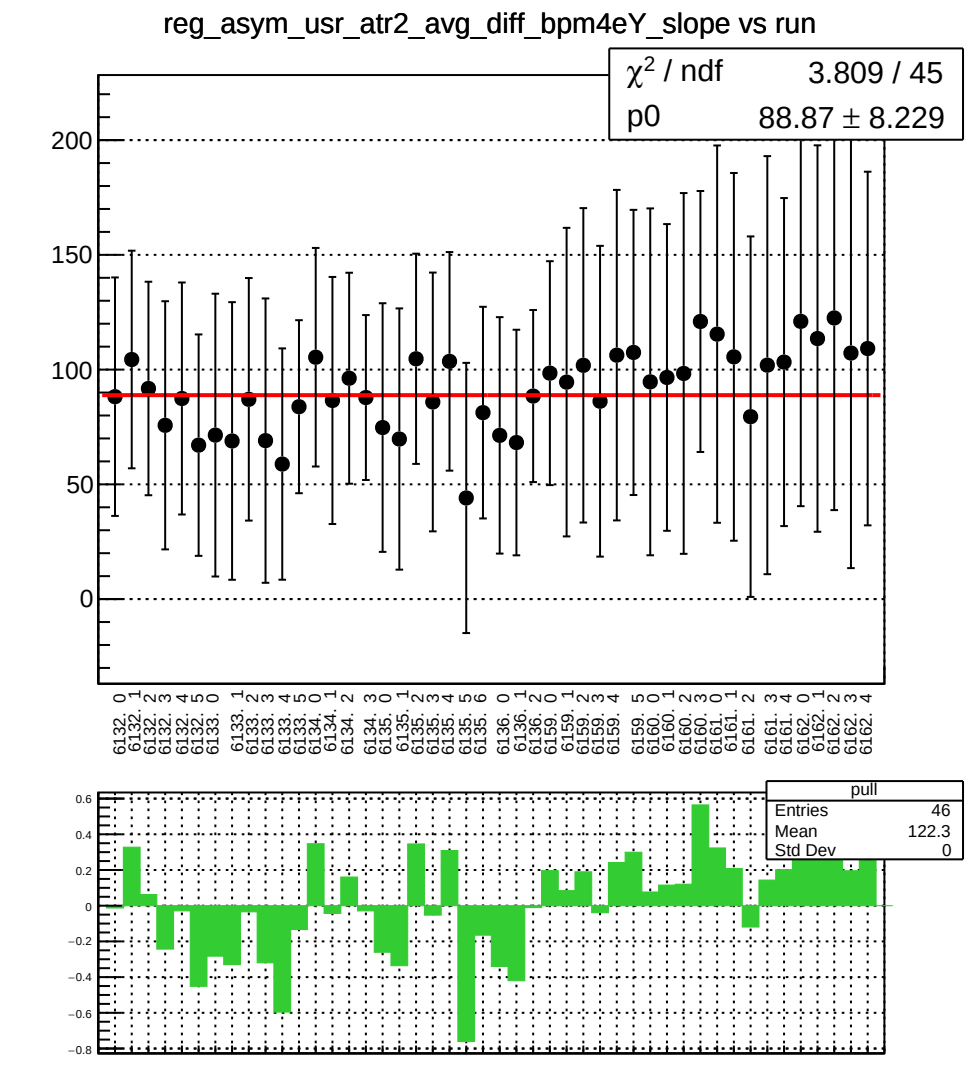

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 8.85 / 45
p0 −275.4 ± 6.531
pull
Entries 46
Mean 103.5
Std Dev 0

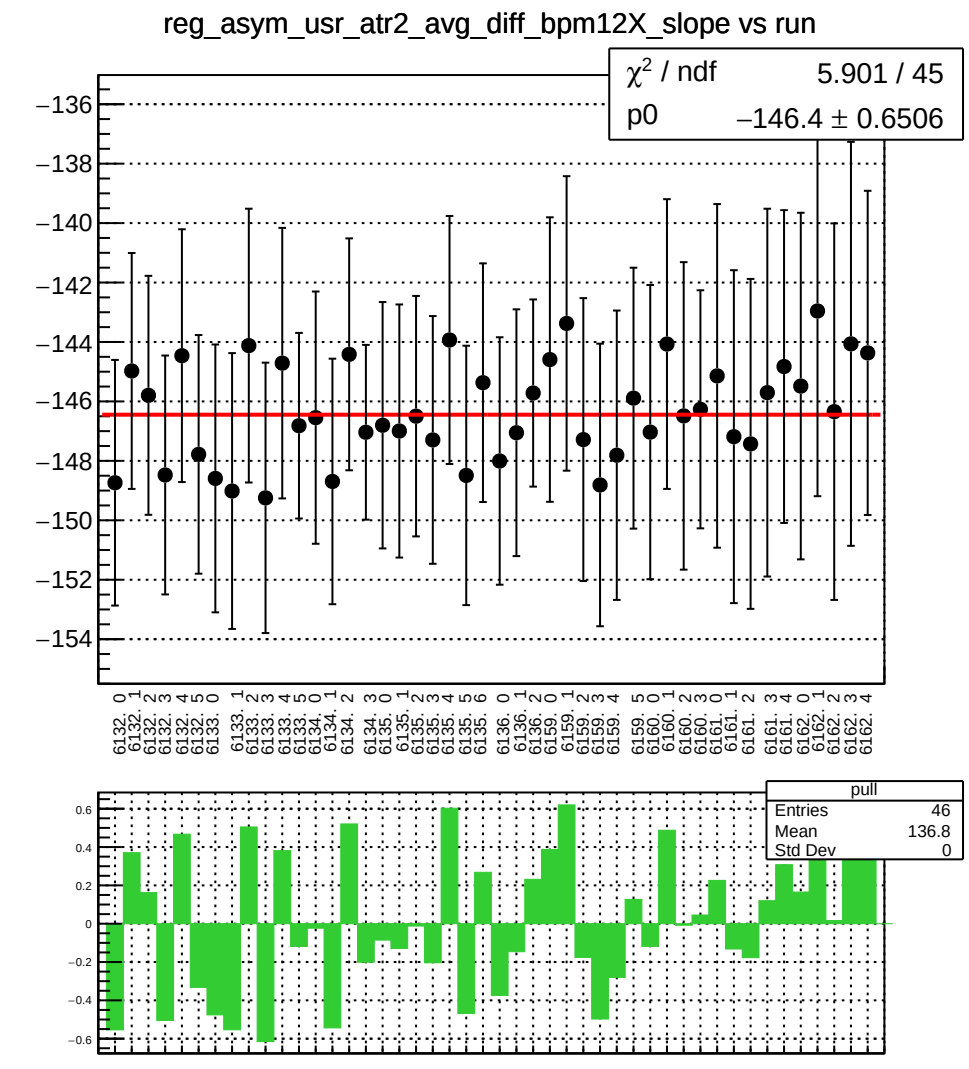

pull1D
Entries 46
Mean −0.03058
Std Dev 0.4375

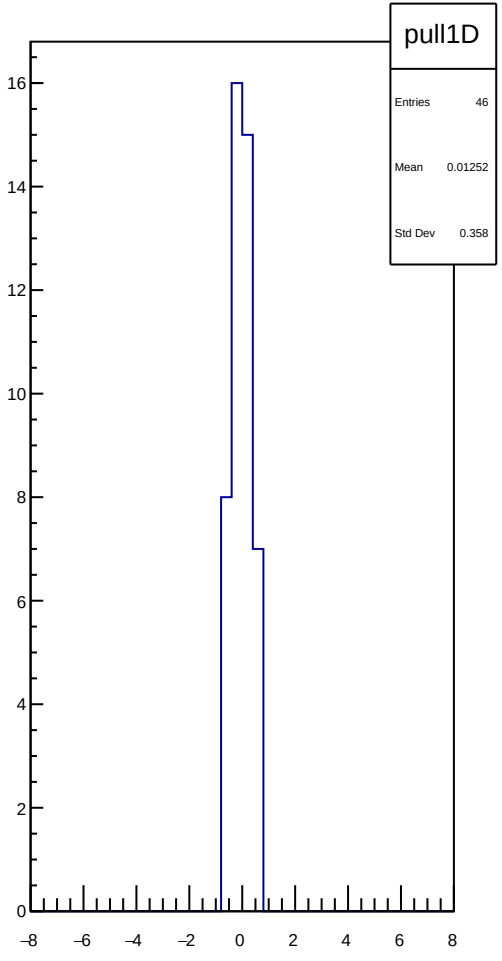

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.235 / 45
p0 −3.375 ± 7.694
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 186.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 46
Mean −0.008258
Std Dev 0.2651
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

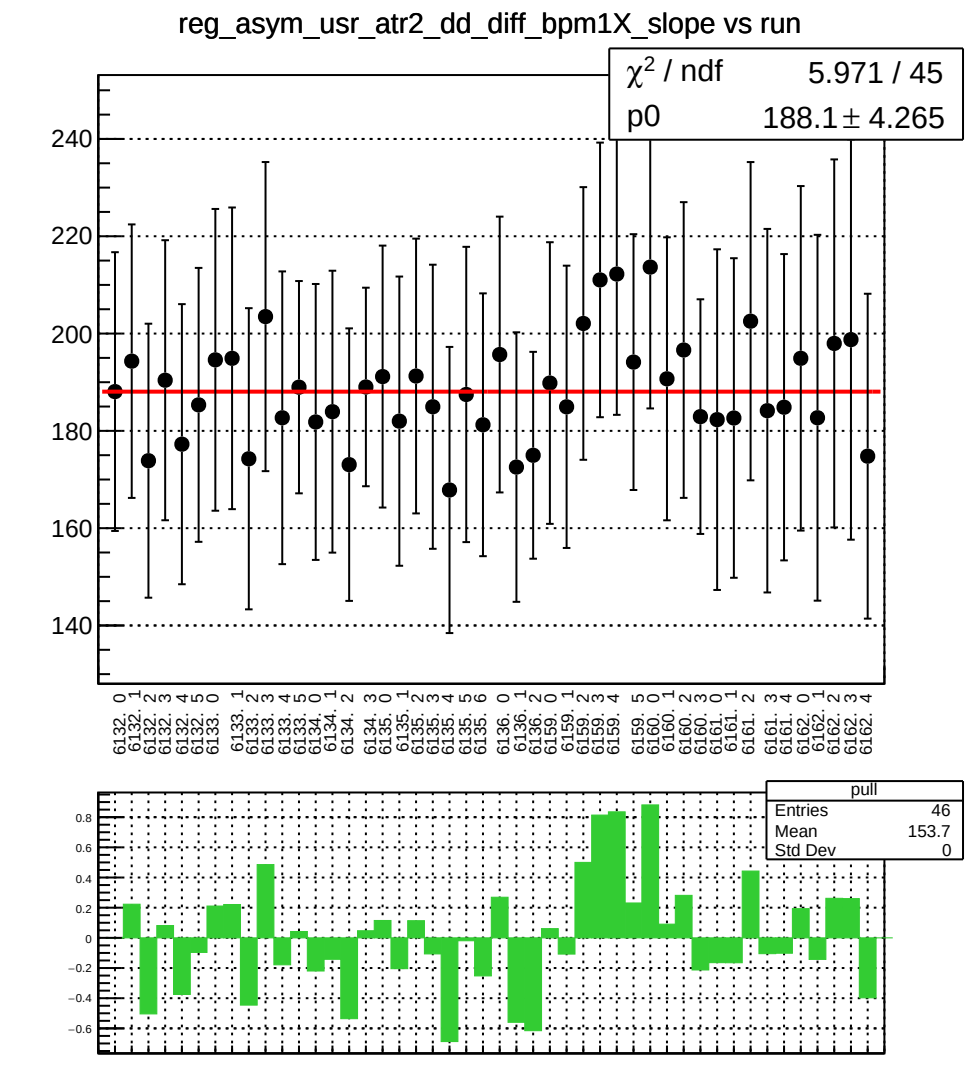

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.25 / 45
p0 445.4 ± 8.001
pull
Entries 46
Mean 83.63
Std Dev 0

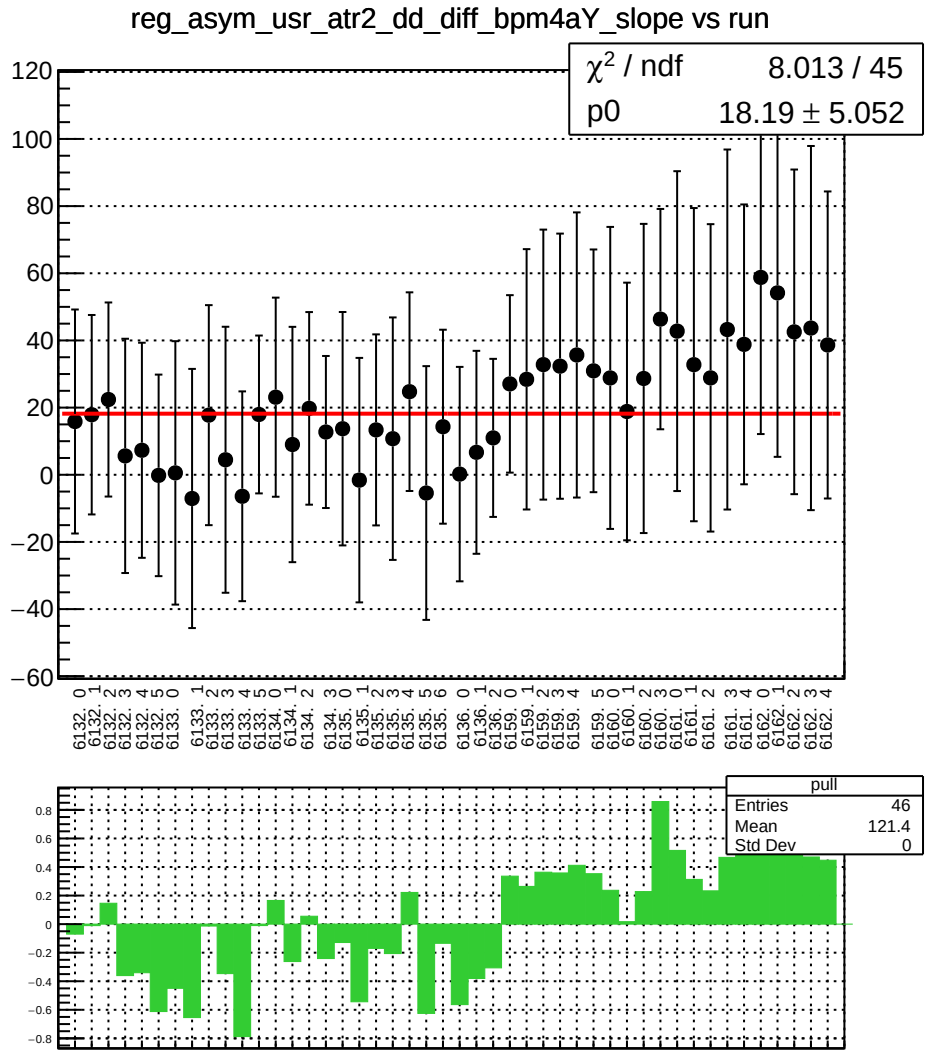

pull1D
Entries 46
Mean 0.02961
Std Dev 0.3959

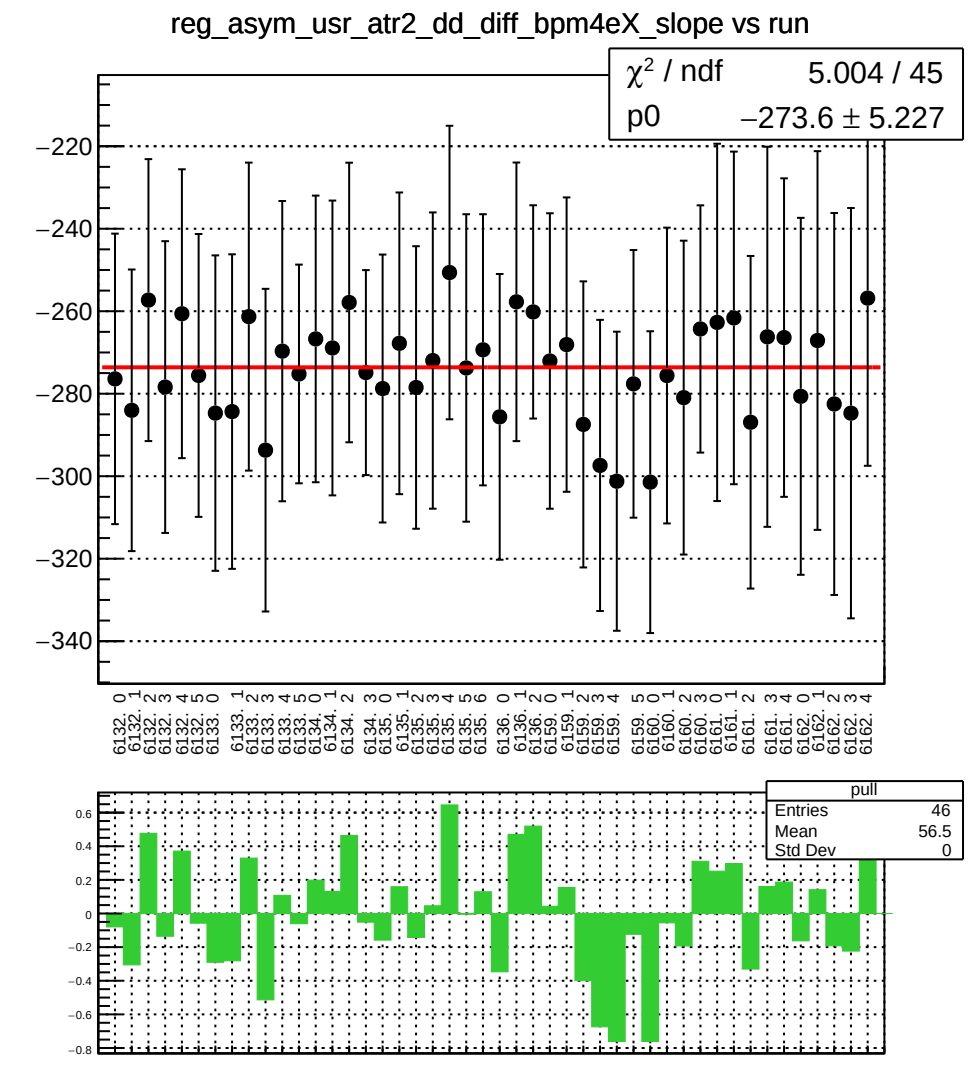

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.809 / 45
p0 88.87 ± 8.229
200
150
100
50
0
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 122.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean 0.01875
Std Dev 0.2871
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

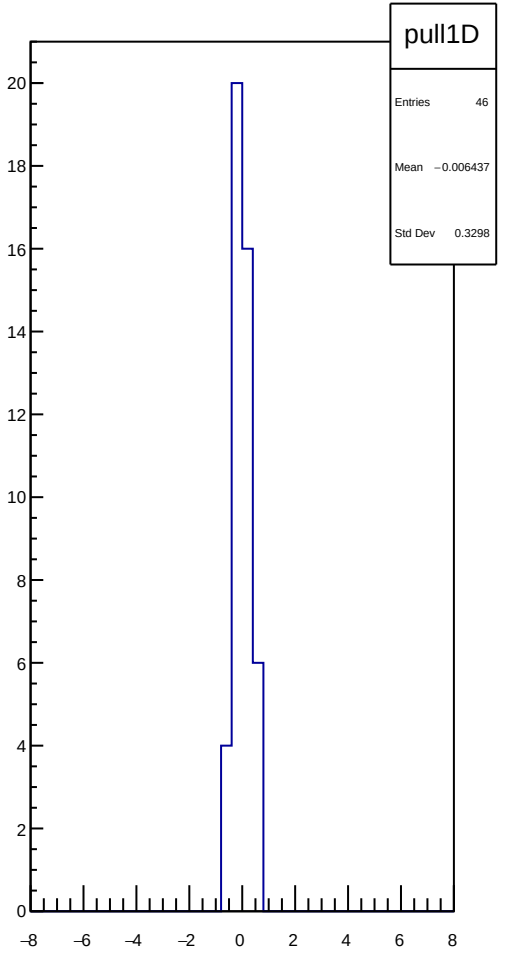

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 5.901 / 45
p0 −146.4 ± 0.6506
pull
Entries 46
Mean 136.8
Std Dev 0

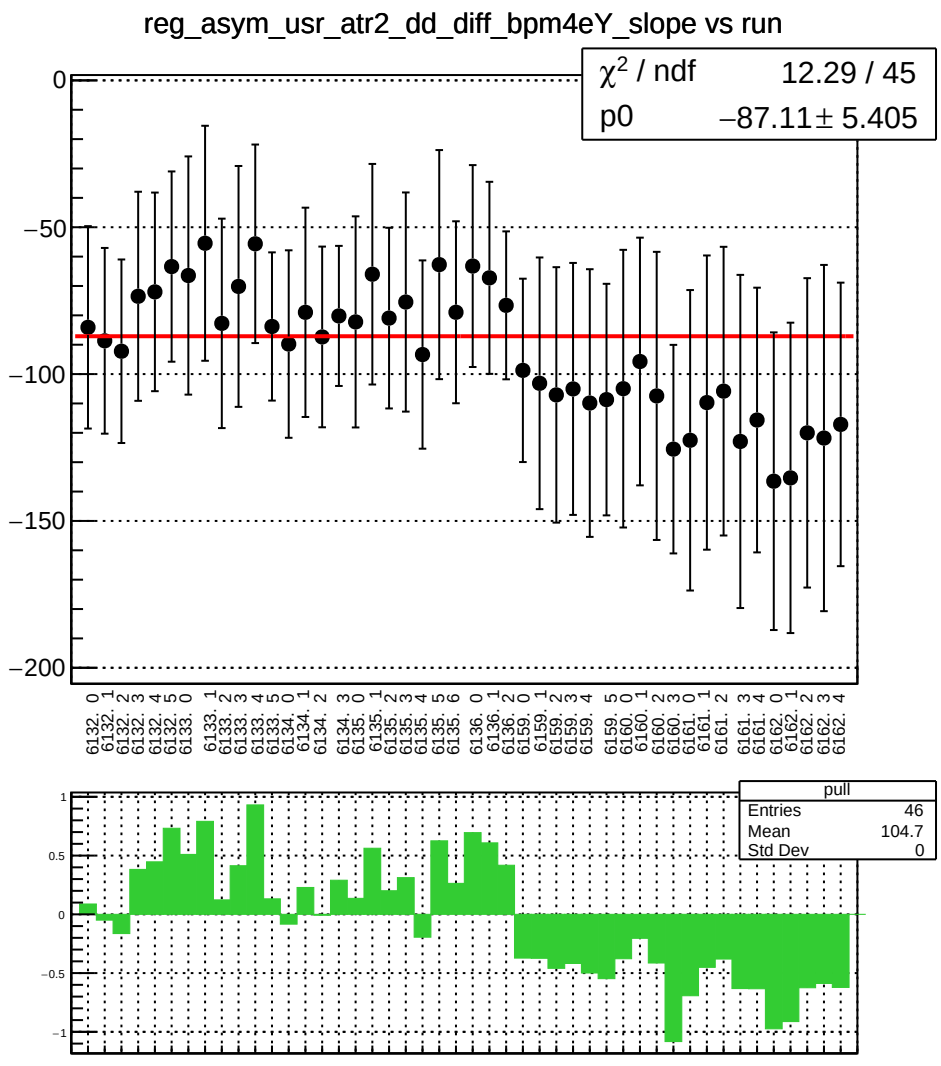

pull1D
Entries 46
Mean 0.01252
Std Dev 0.358

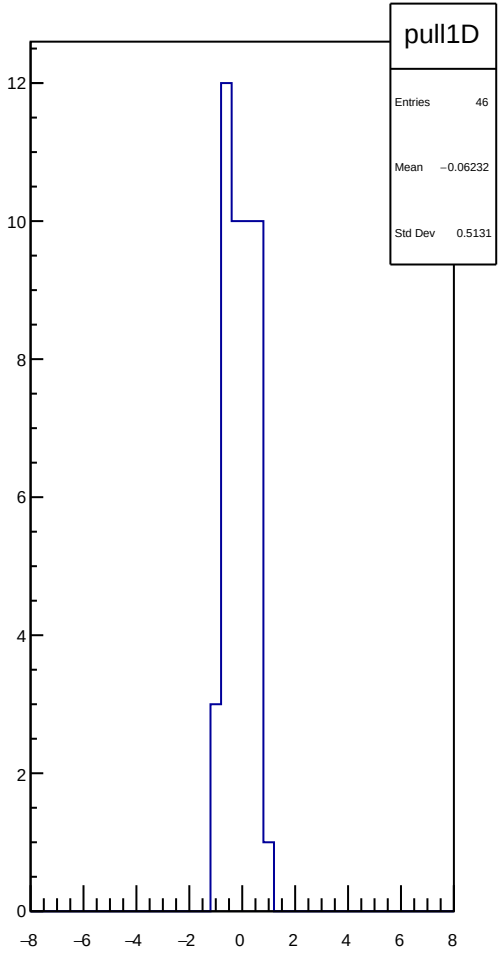

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 5.971 / 45
p0 188.1 ± 4.265
240
220
200
180
160
140
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6136. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 153.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 46
Mean 0.007069
Std Dev 0.3602
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

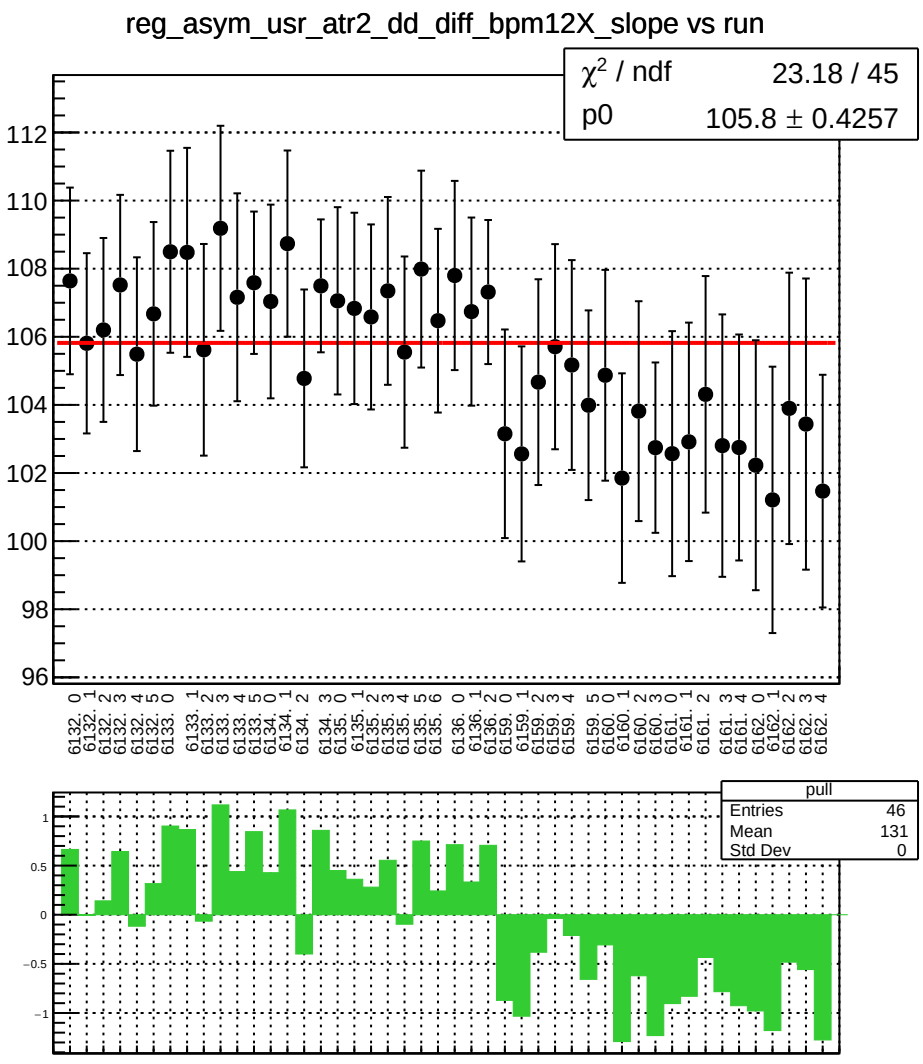

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.013 / 45
p0 18.19 ± 5.052
pull
Entries 46
Mean 121.4
Std Dev 0
pull1D
Entries 46
Mean 0.04031
Std Dev 0.4154

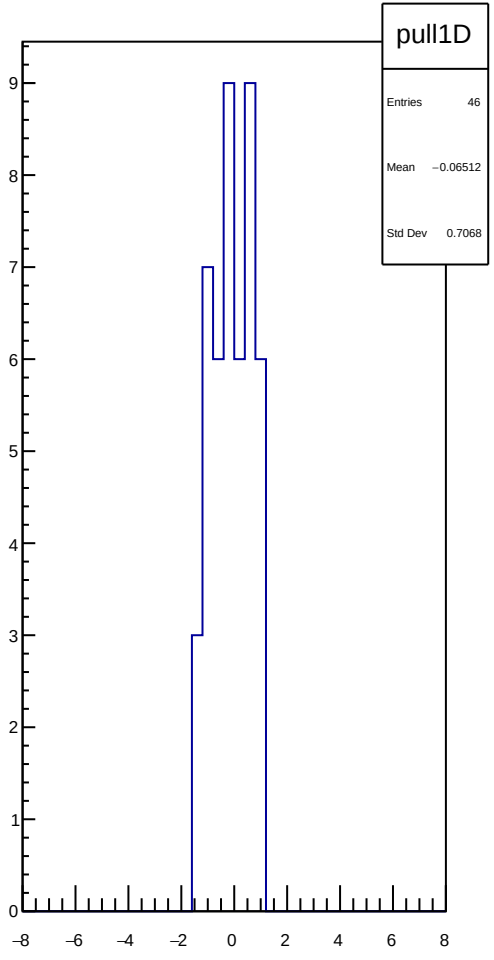

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.004 / 45
p0 −273.6 ± 5.227
−220
−240
−260
−280
−300
−320
−340
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 56.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

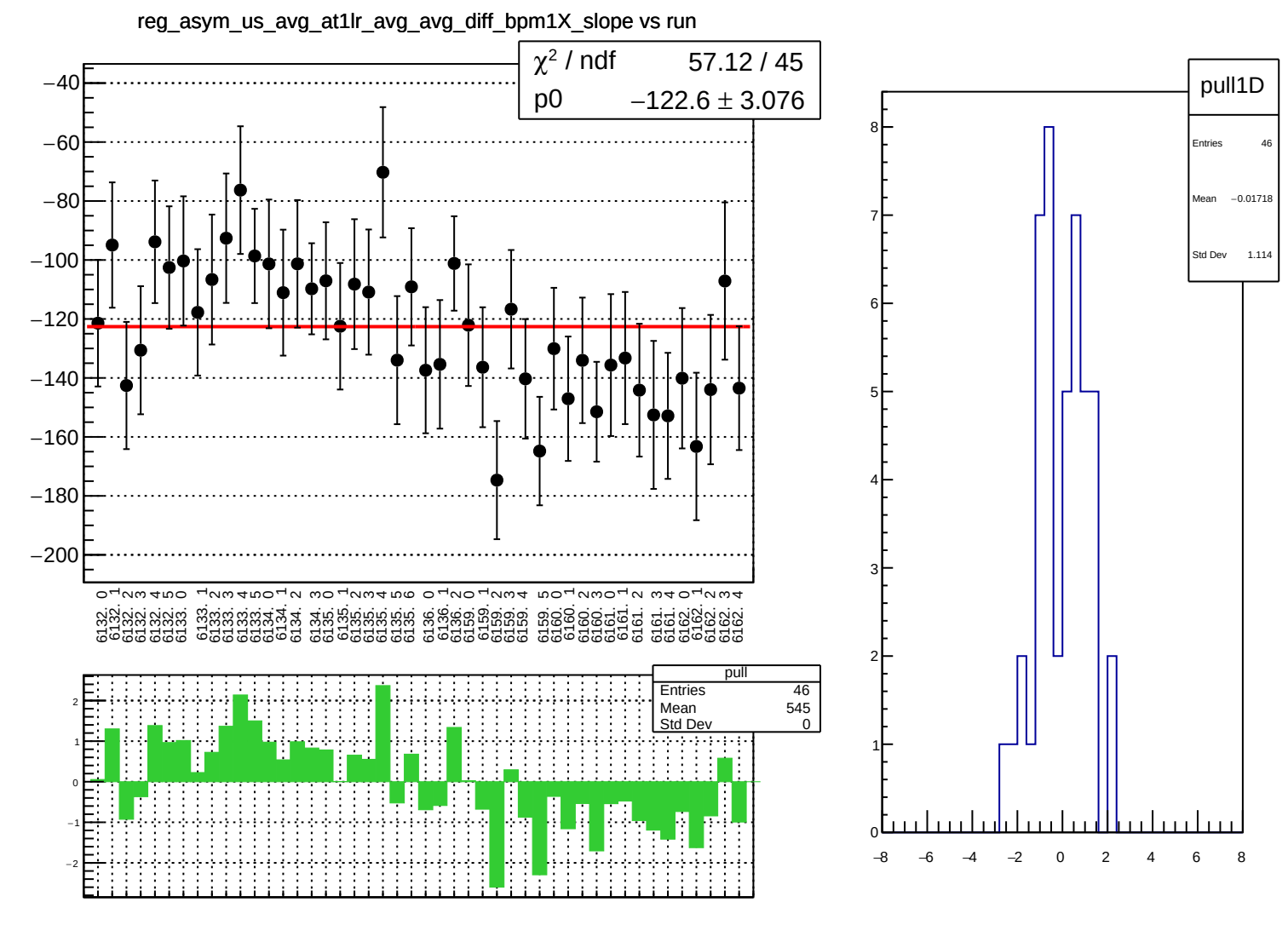

pull1D
Entries 46
Mean −0.006437
Std Dev 0.3298
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

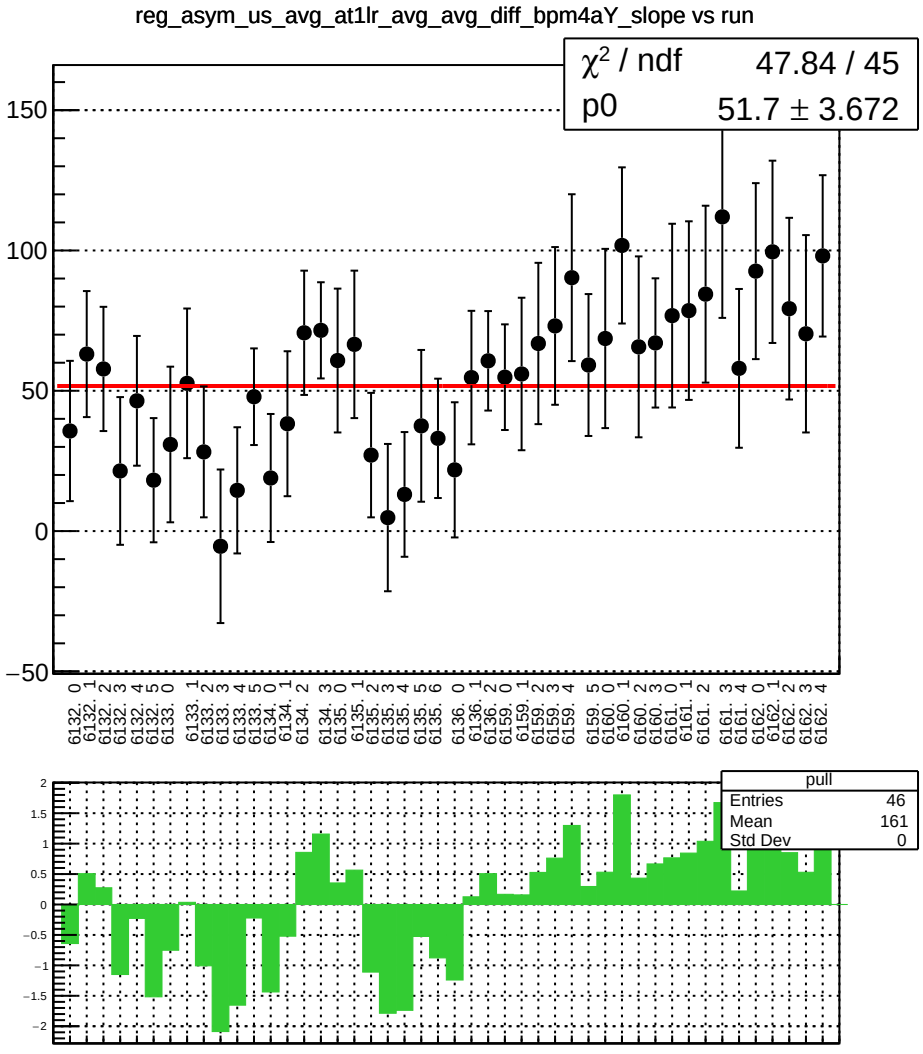

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.29 / 45
p0 −87.11 ± 5.405
0
−50
−100
−150
−200
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 104.7
Std Dev 0
1
0.5
0
−0.5
−1

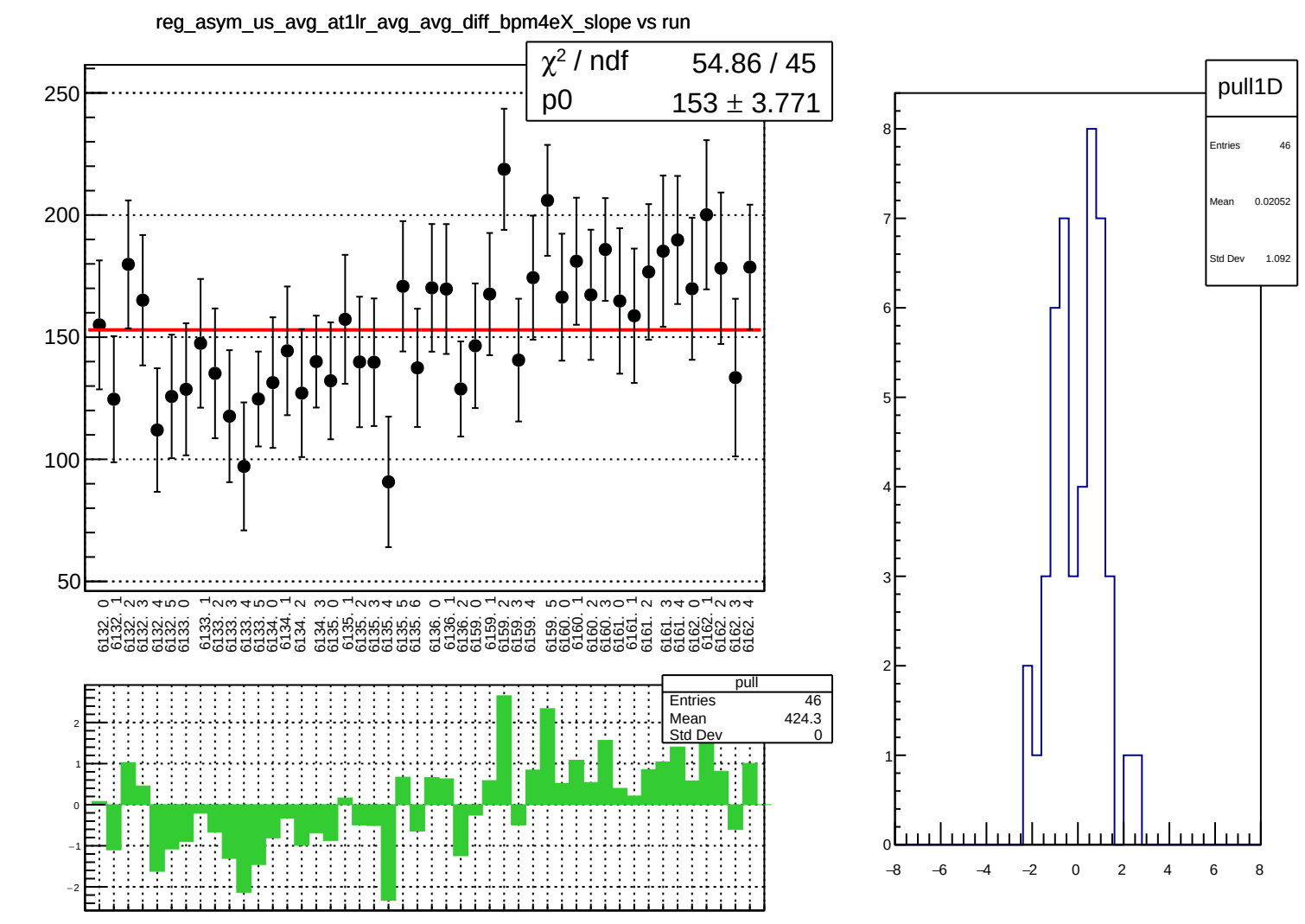

pull1D
Entries 46
Mean −0.06232
Std Dev 0.5131
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

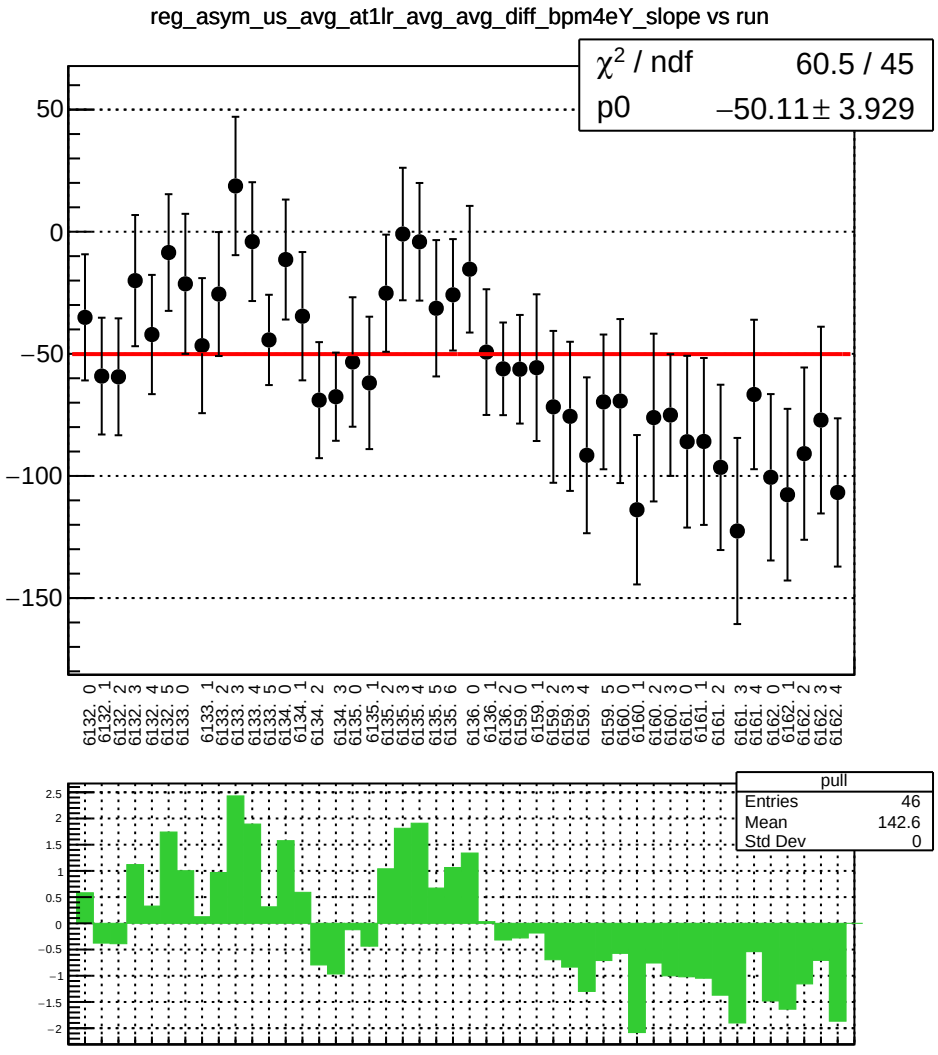

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 23.18 / 45
p0 105.8 ± 0.4257
pull
Entries 46
Mean 131
Std Dev 0

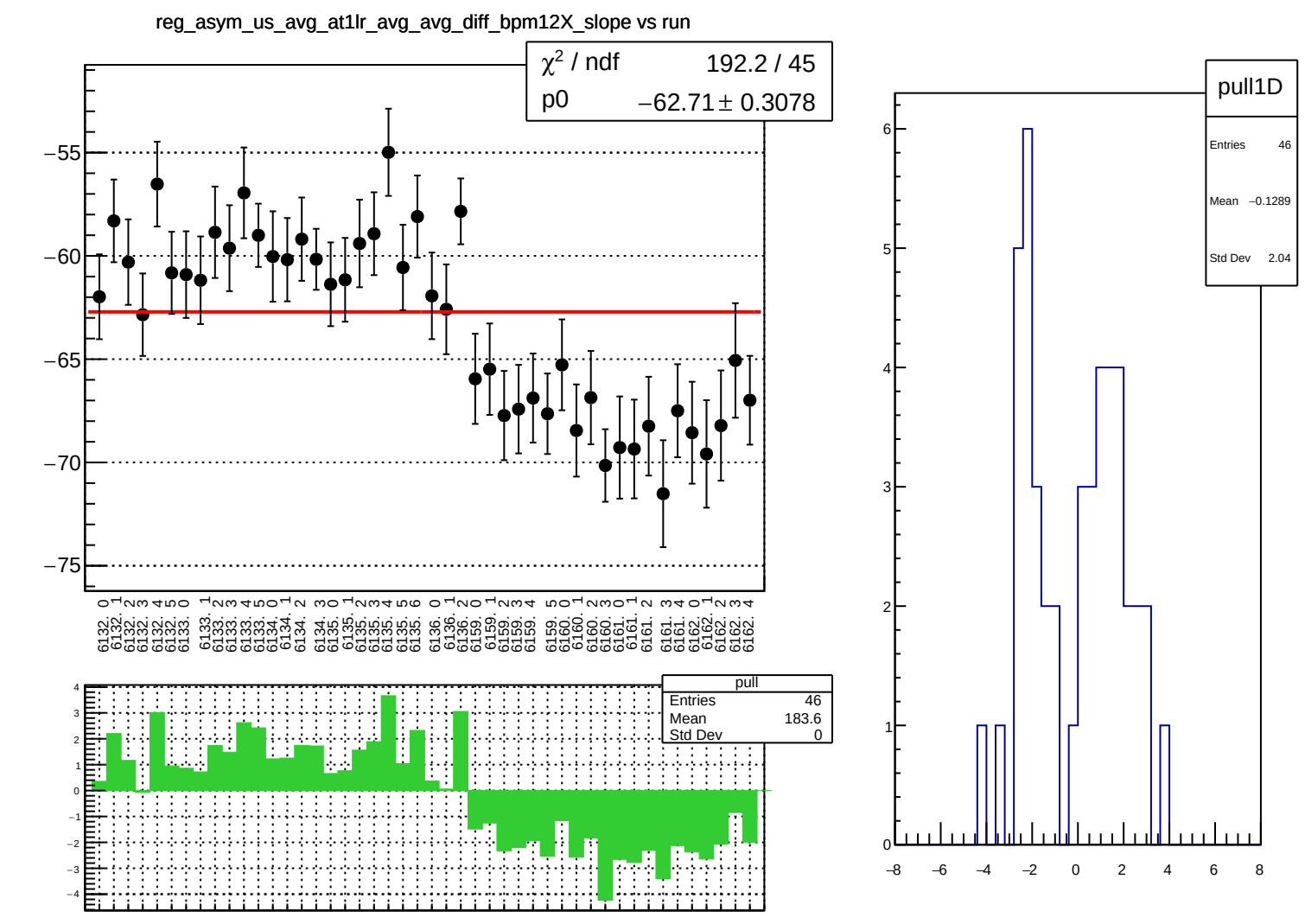

pull1D
Entries 46
Mean −0.06512
Std Dev 0.7068

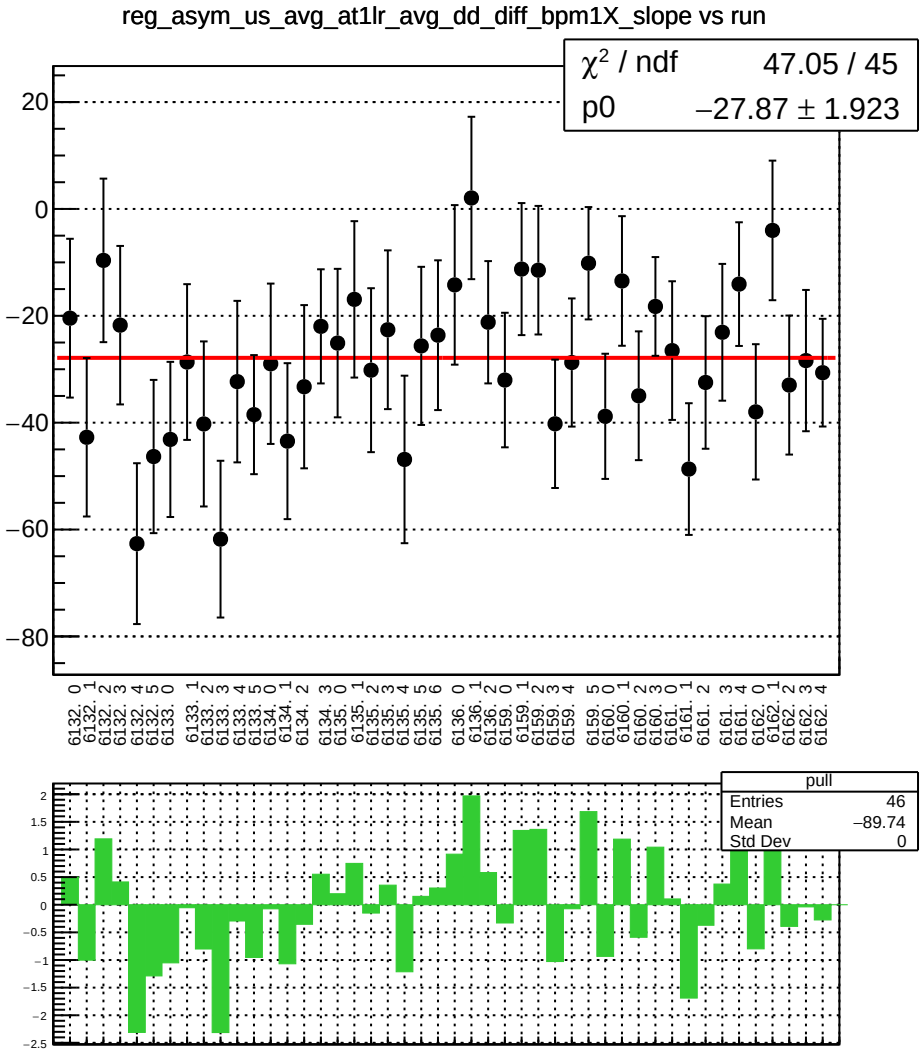

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 57.12 / 45
p0 −122.6 ± 3.076
pull
Entries 46
Mean 545
Std Dev 0
pull1D
Entries 46
Mean −0.01718
Std Dev 1.114

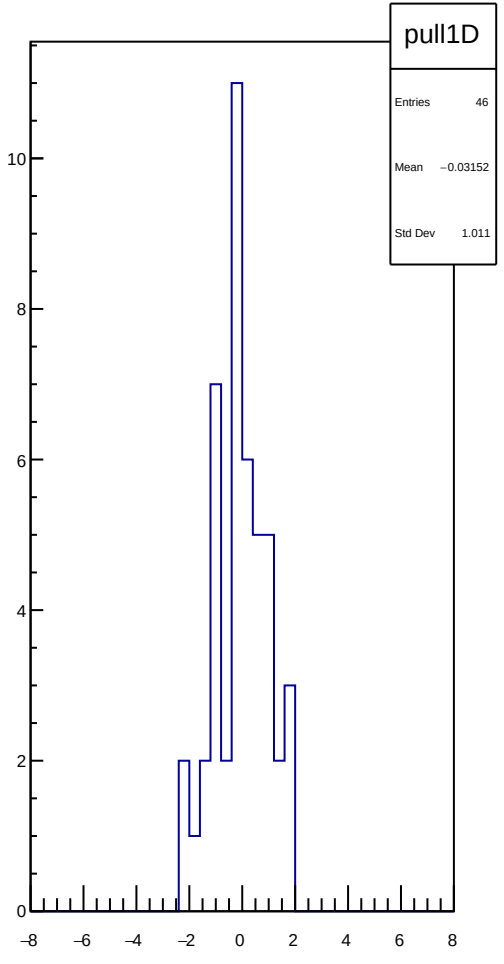

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 47.84 / 45
p0 51.7 ± 3.672
150
100
50
0
−50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 161
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.06176
Std Dev 1.018
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

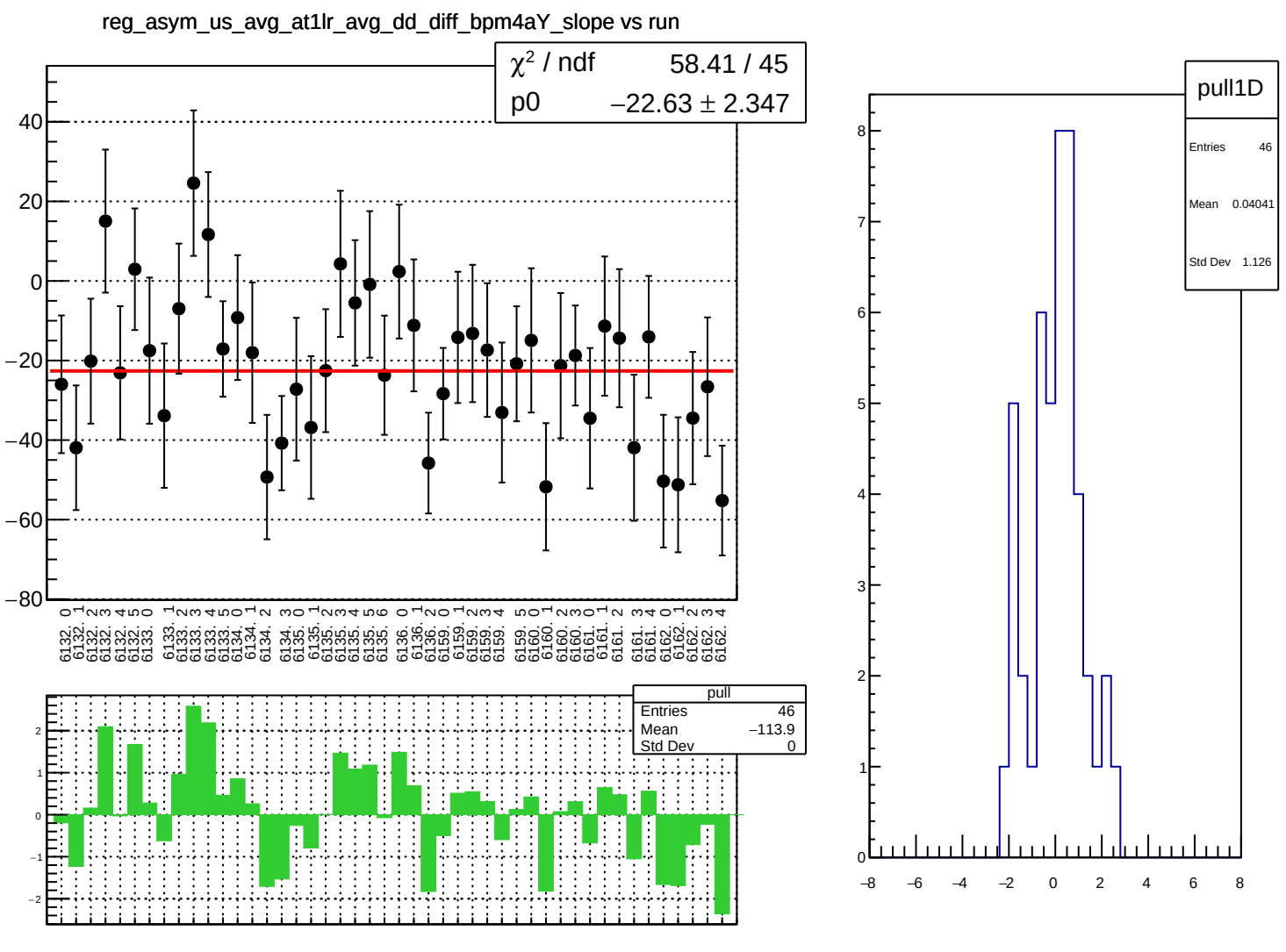

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 54.86 / 45
p0 153 ± 3.771
250
200
150
100
50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 424.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.02052
Std Dev 1.092
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

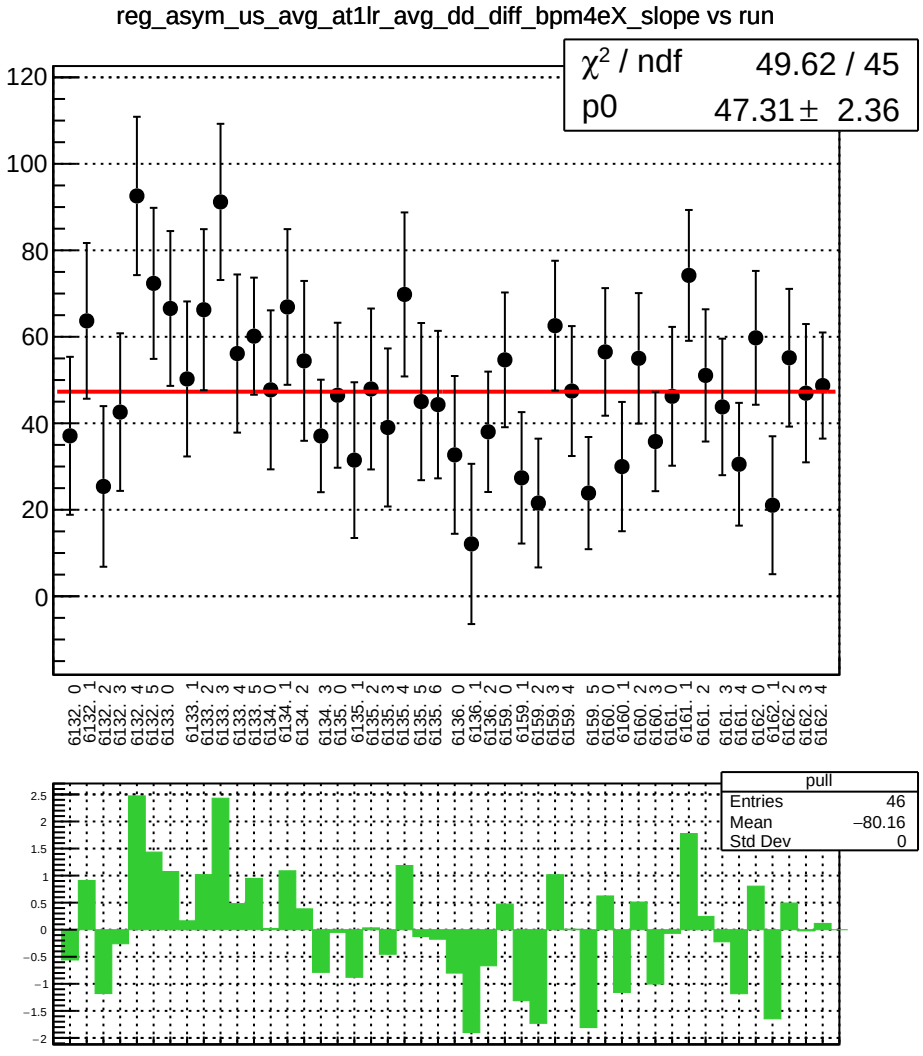

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 60.5 / 45
p0 −50.11 ± 3.929
pull
Entries 46
Mean 142.6
Std Dev 0
pull1D
Entries 46
Mean −0.08669
Std Dev 1.144

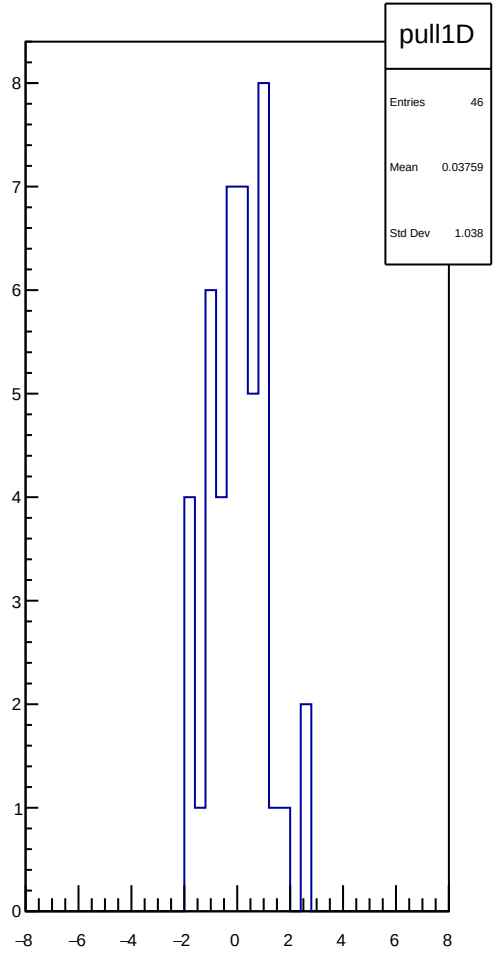

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 192.2 / 45
p0 −62.71 ± 0.3078
−55
−60
−65
−70
−75
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 183.6
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 46
Mean −0.1289
Std Dev 2.04
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

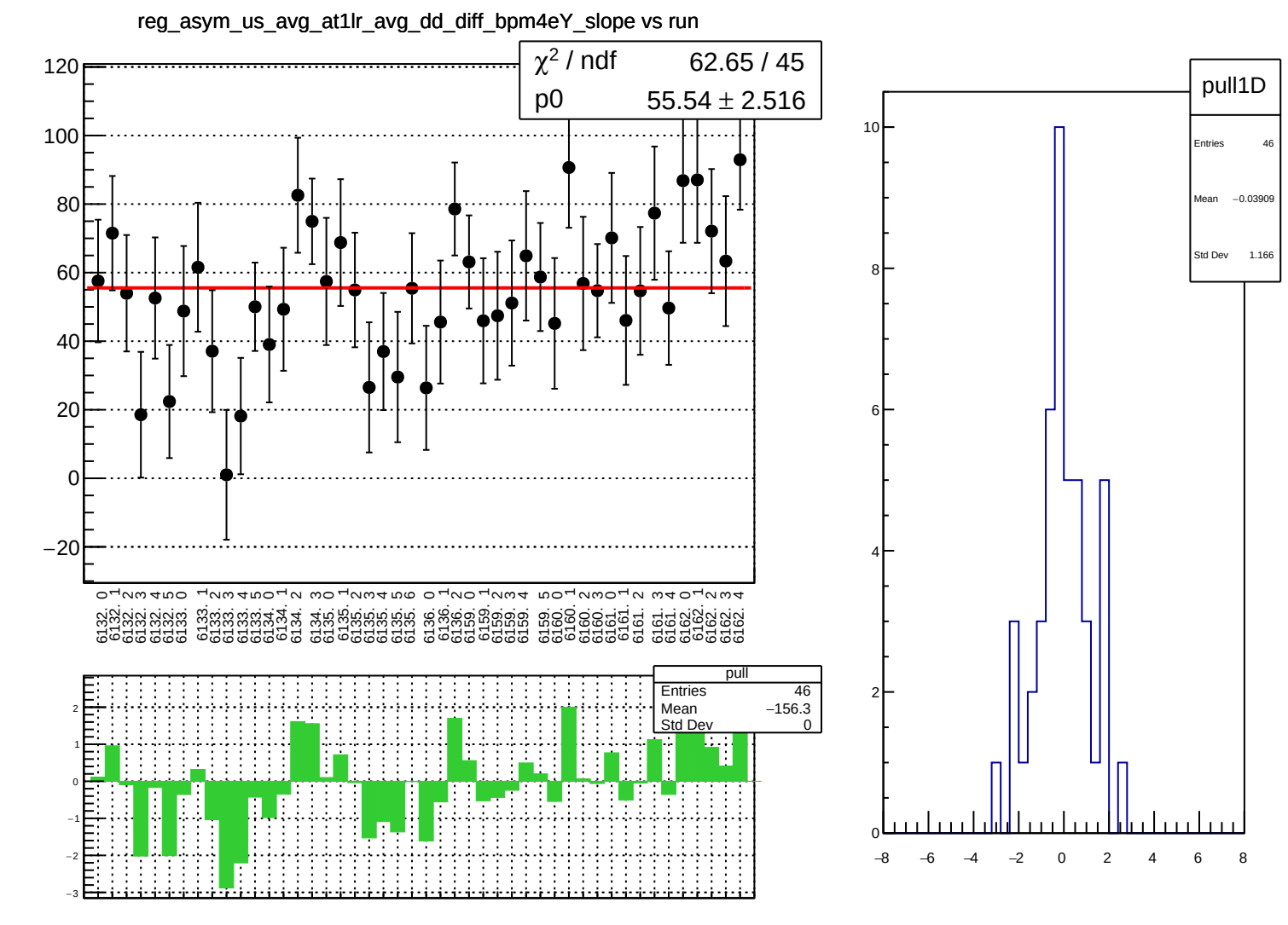

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 47.05 / 45
p0 −27.87 ± 1.923
pull
Entries 46
Mean −89.74
Std Dev 0

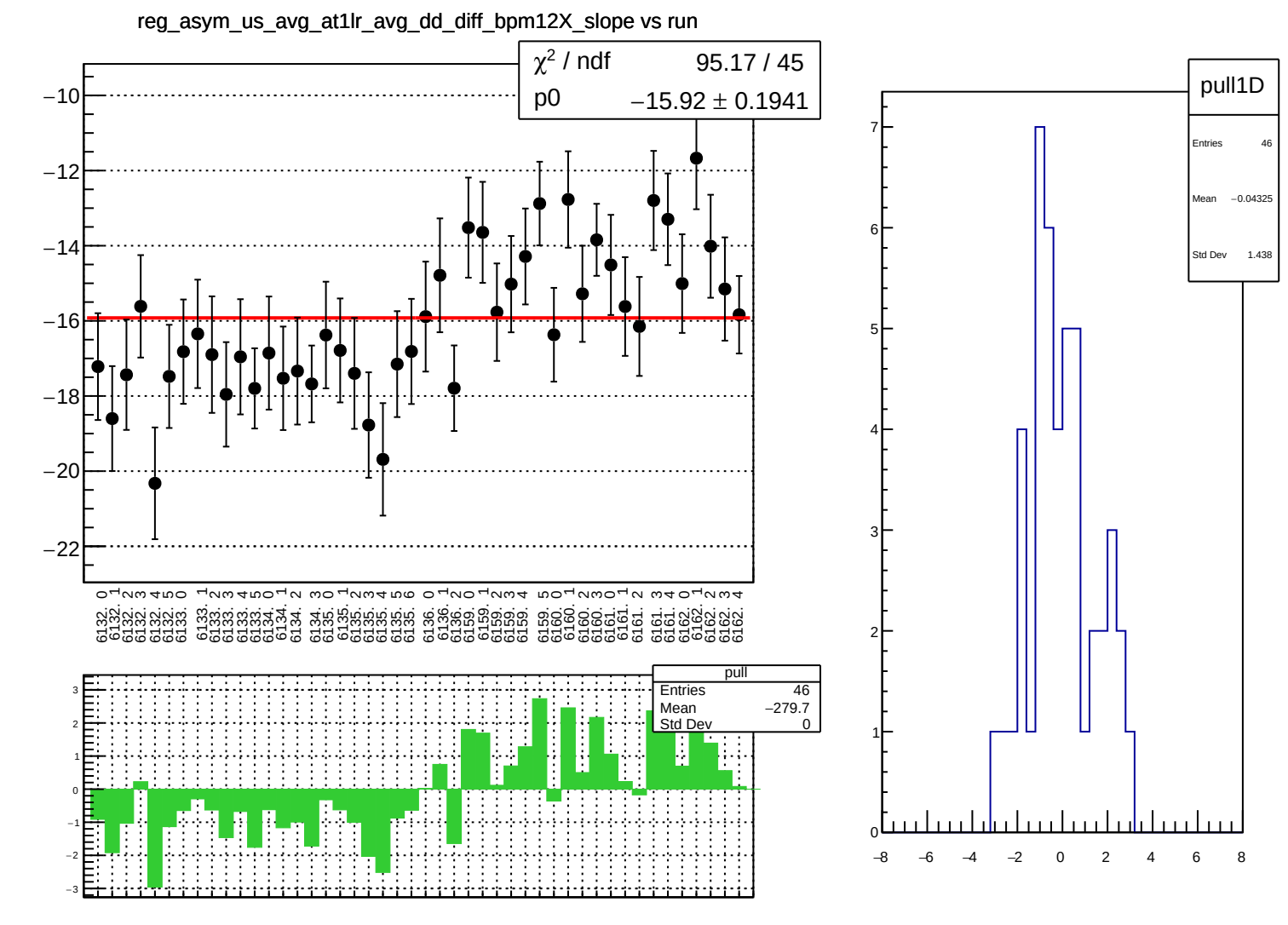

pull1D
Entries 46
Mean −0.03152
Std Dev 1.011

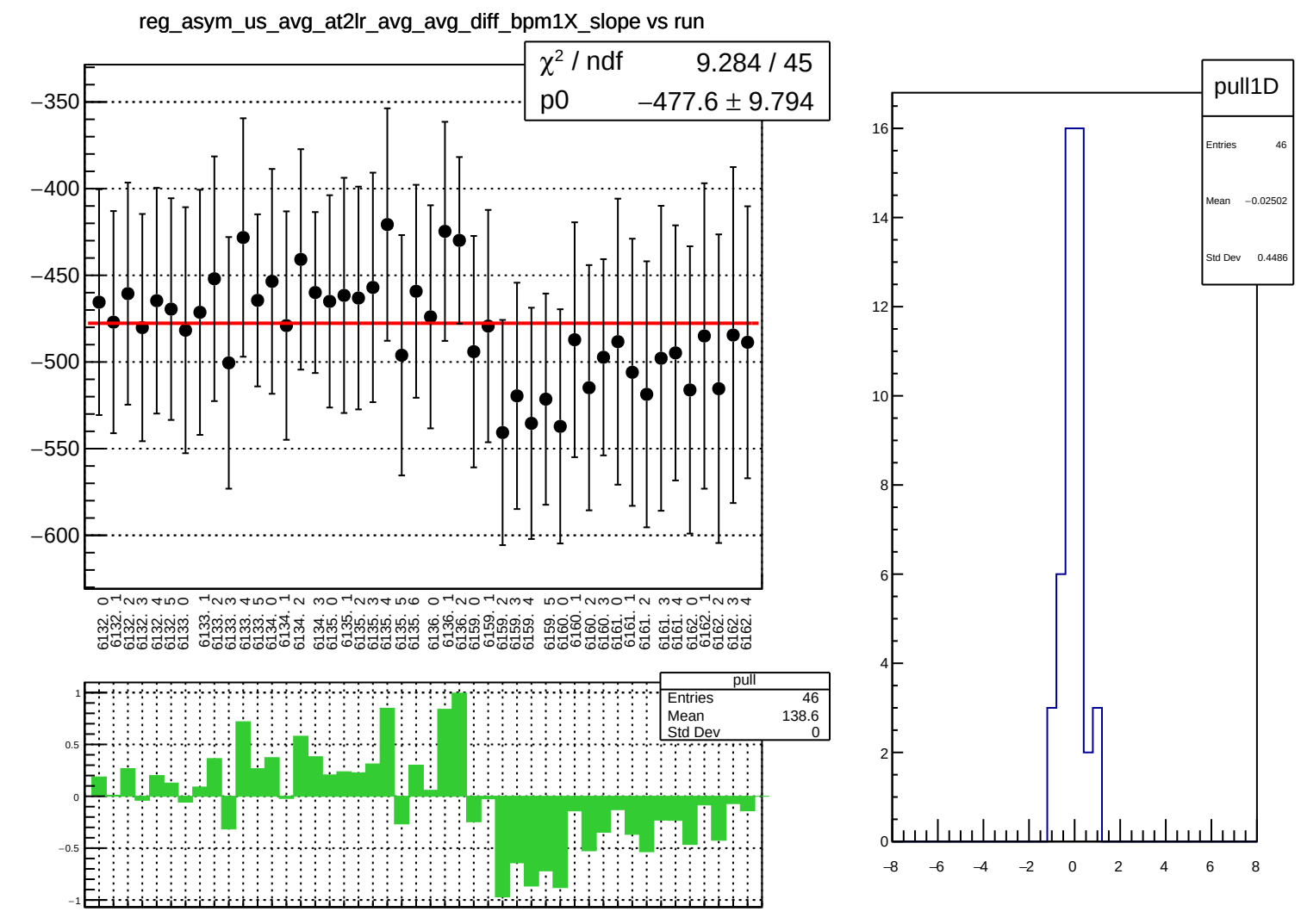

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 58.41 / 45
p0 −22.63 ± 2.347
pull
Entries 46
Mean −113.9
Std Dev 0
pull1D
Entries 46
Mean 0.04041
Std Dev 1.126

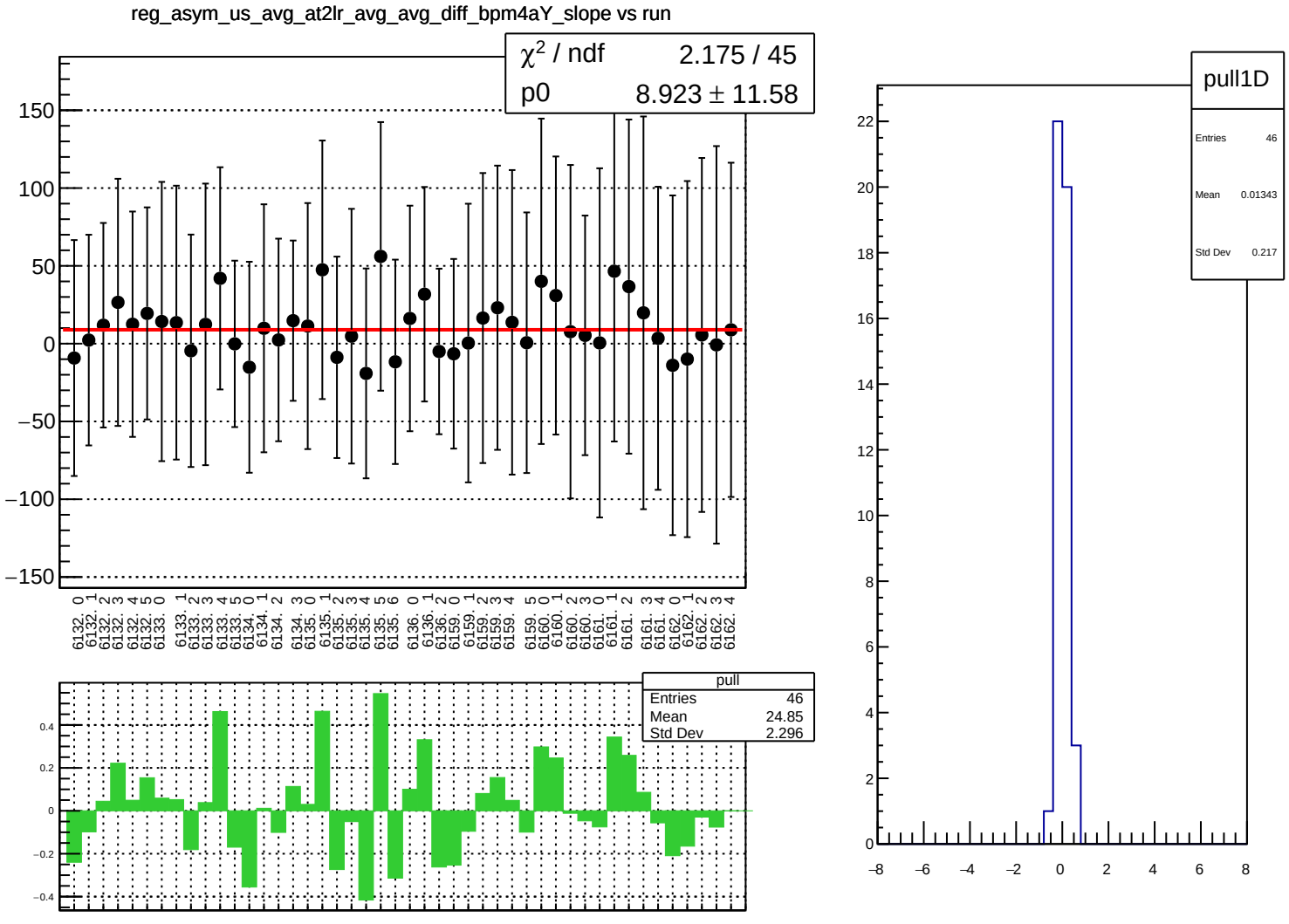

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.62 / 45
p0 47.31 ± 2.36
pull
Entries 46
Mean −80.16
Std Dev 0

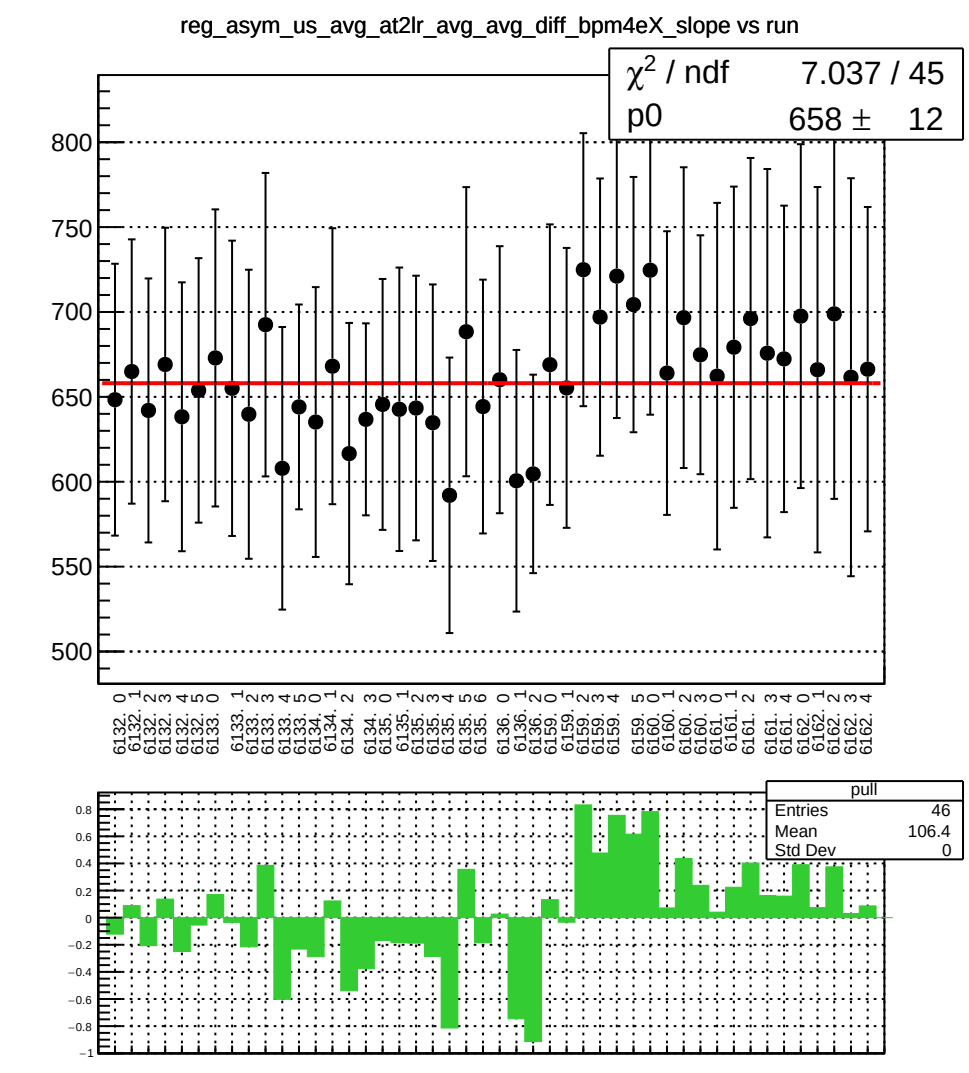

pull1D
Entries 46
Mean 0.03759
Std Dev 1.038

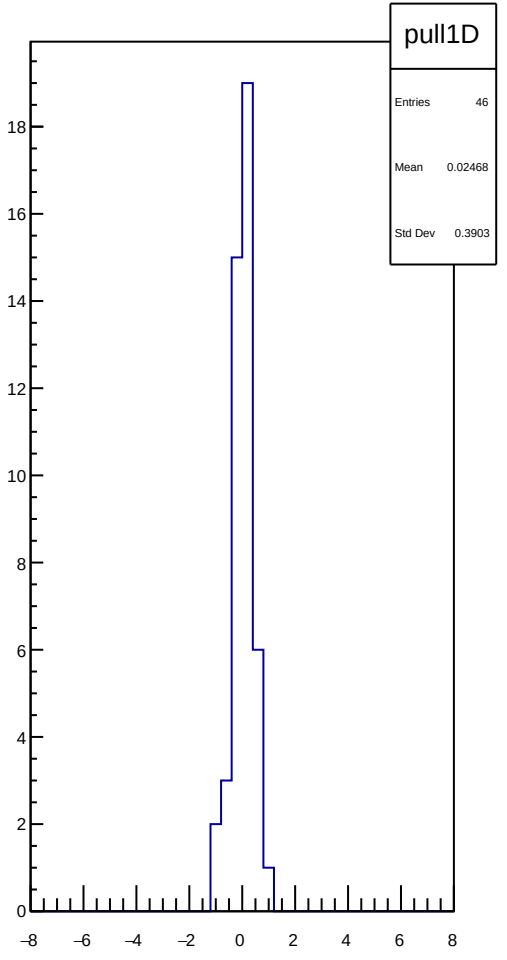

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 62.65 / 45
p0 55.54 ± 2.516
pull
Entries 46
Mean −156.3
Std Dev 0
pull1D
Entries 46
Mean −0.03909
Std Dev 1.166

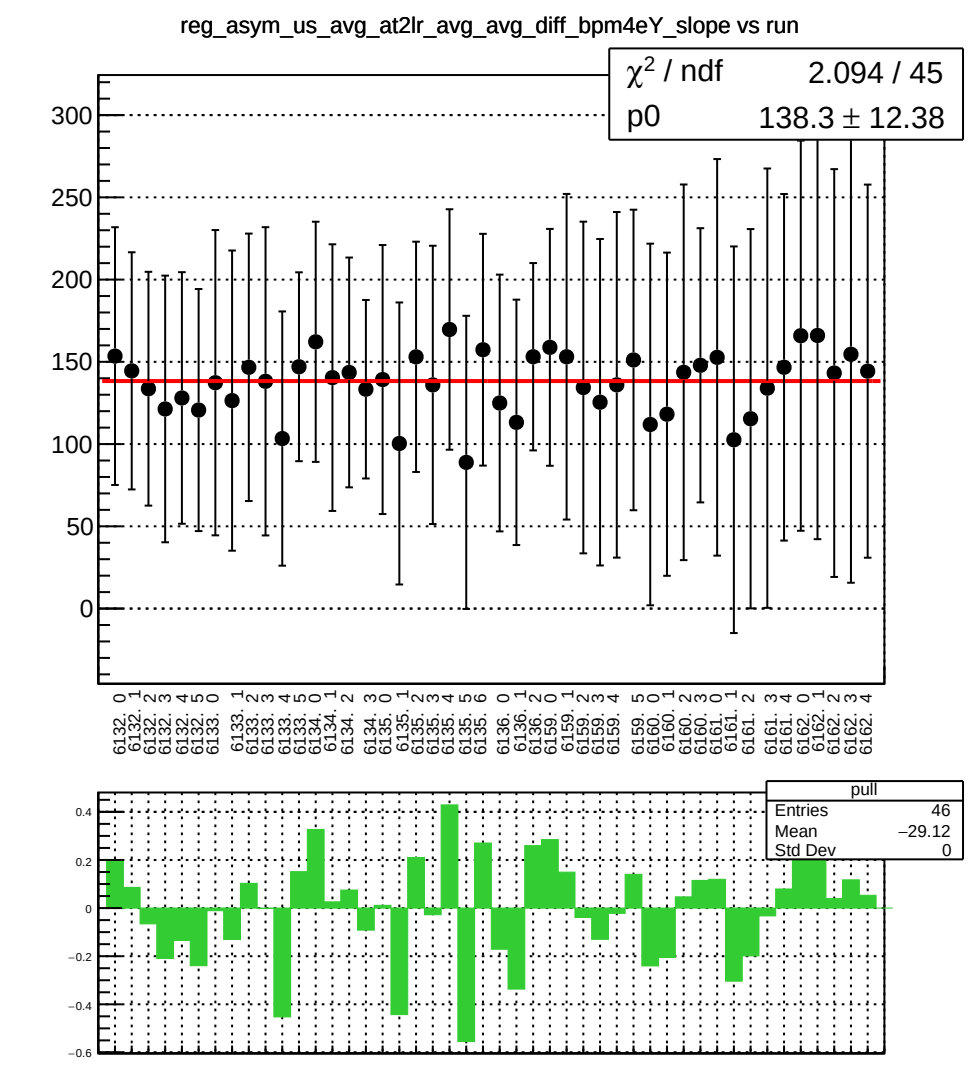

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 95.17 / 45
p0 −15.92 ± 0.1941
pull
Entries 46
Mean −279.7
Std Dev 0
pull1D
Entries 46
Mean −0.04325
Std Dev 1.438

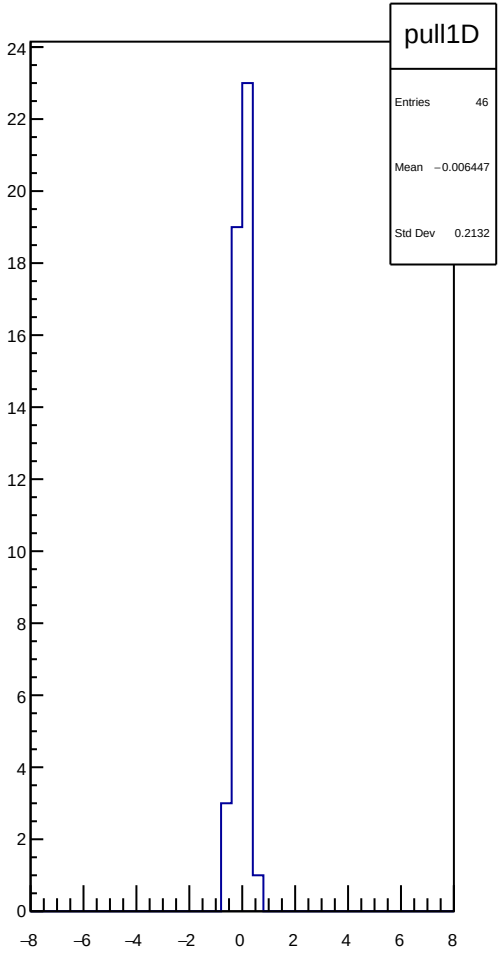

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 9.284 / 45
p0 −477.6 ± 9.794
−350
−400
−450
−500
−550
−600
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 138.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.02502
Std Dev 0.4486
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

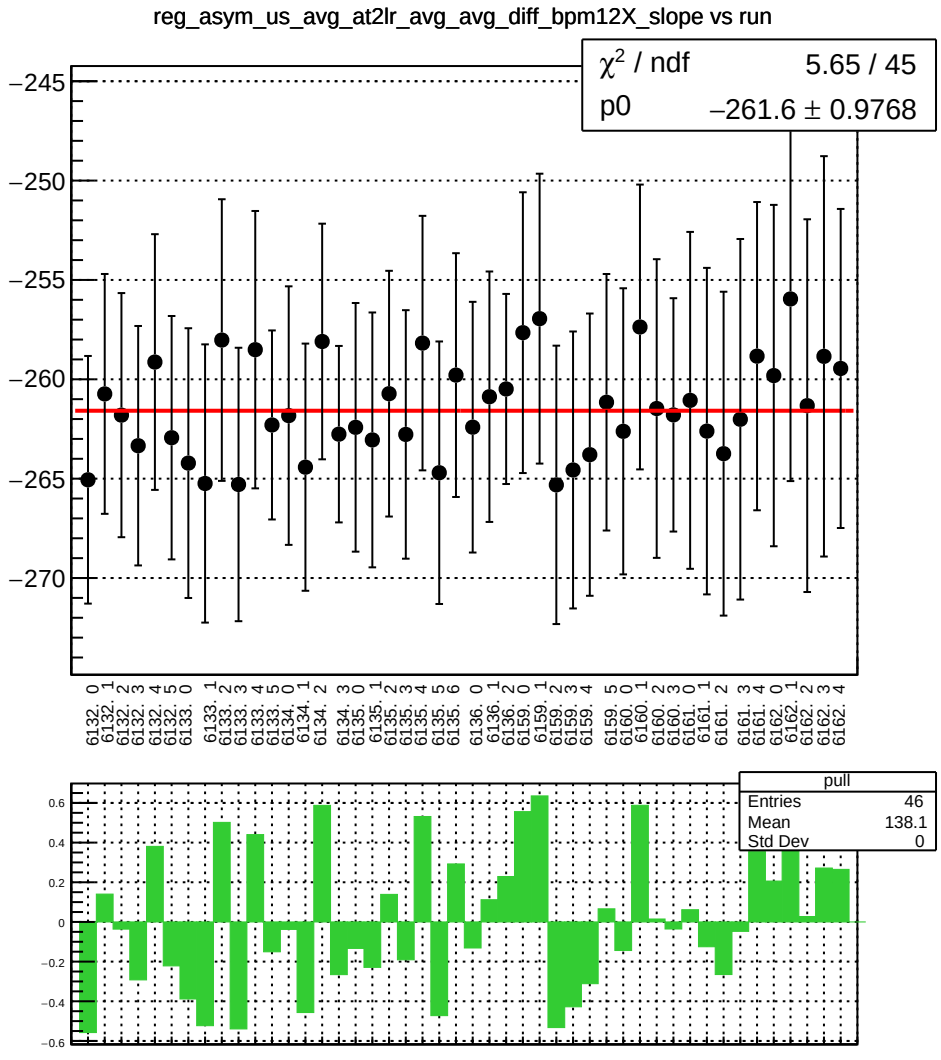

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.175 / 45
p0 8.923 ± 11.58
150
100
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 24.85
Std Dev 2.296
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 46
Mean 0.01343
Std Dev 0.217
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

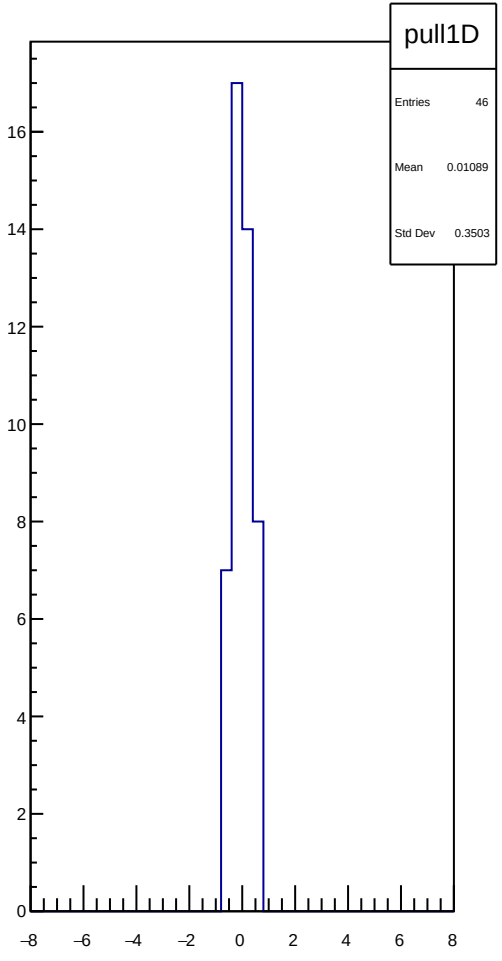

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ2 / ndf 7.037 / 45
p0 658 ± 12
800
750
700
650
600
550
500
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 106.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

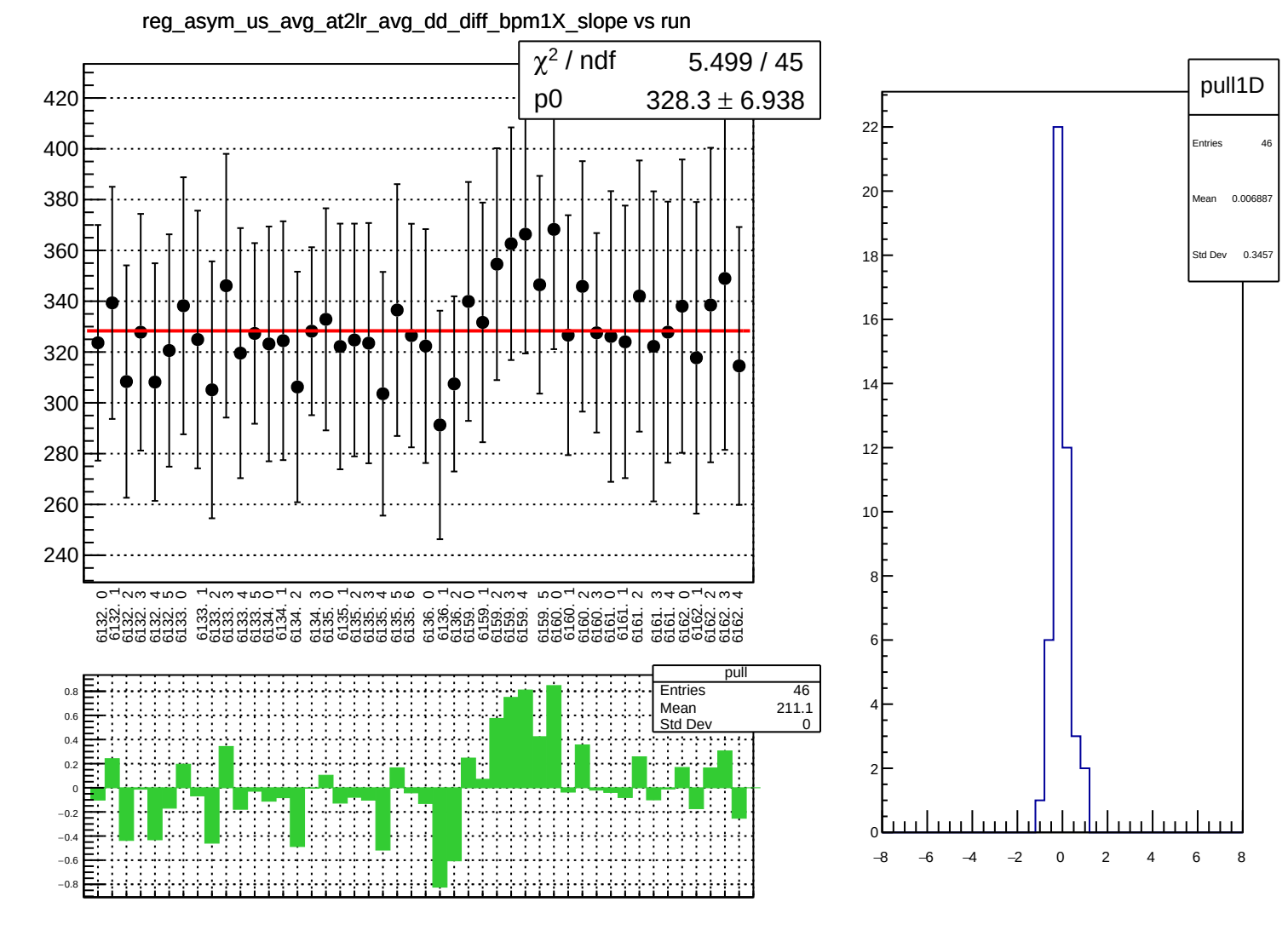

pull1D
Entries 46
Mean 0.02468
Std Dev 0.3903
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

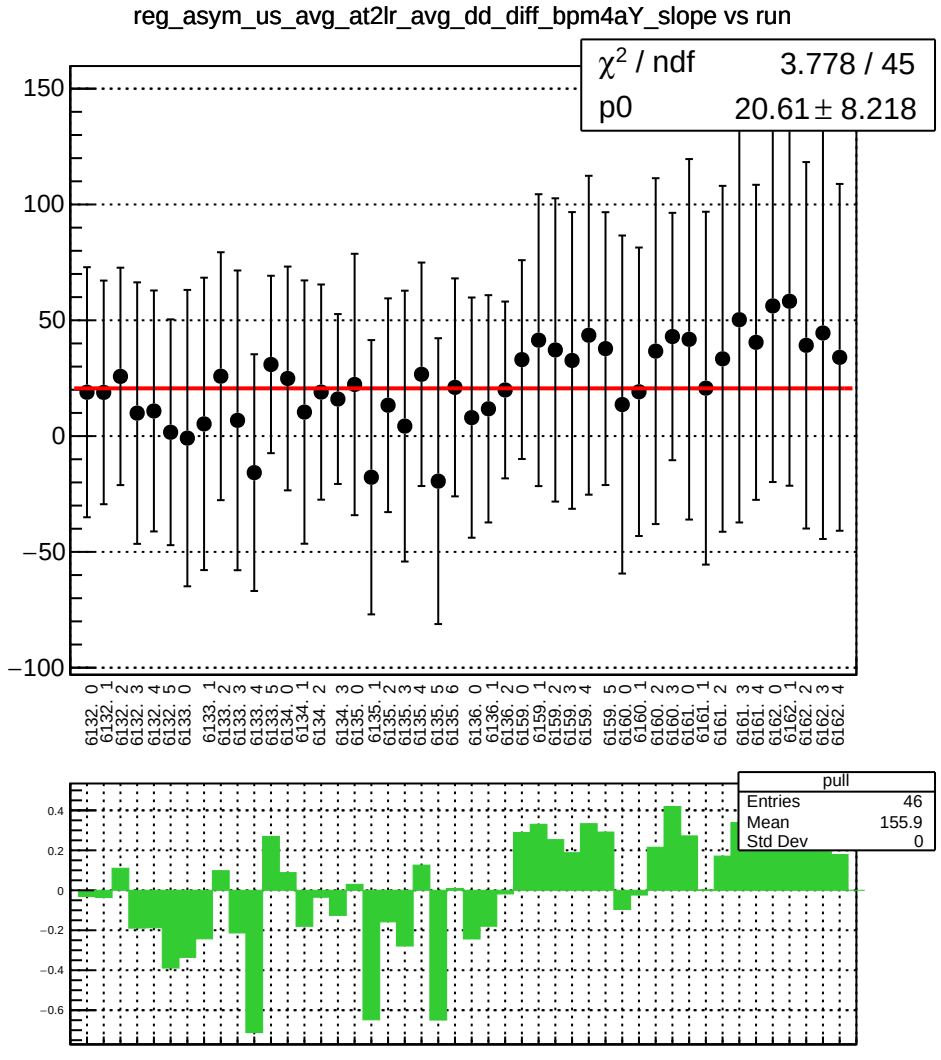

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.094 / 45
p0 138.3 ± 12.38
pull
Entries 46
Mean −29.12
Std Dev 0

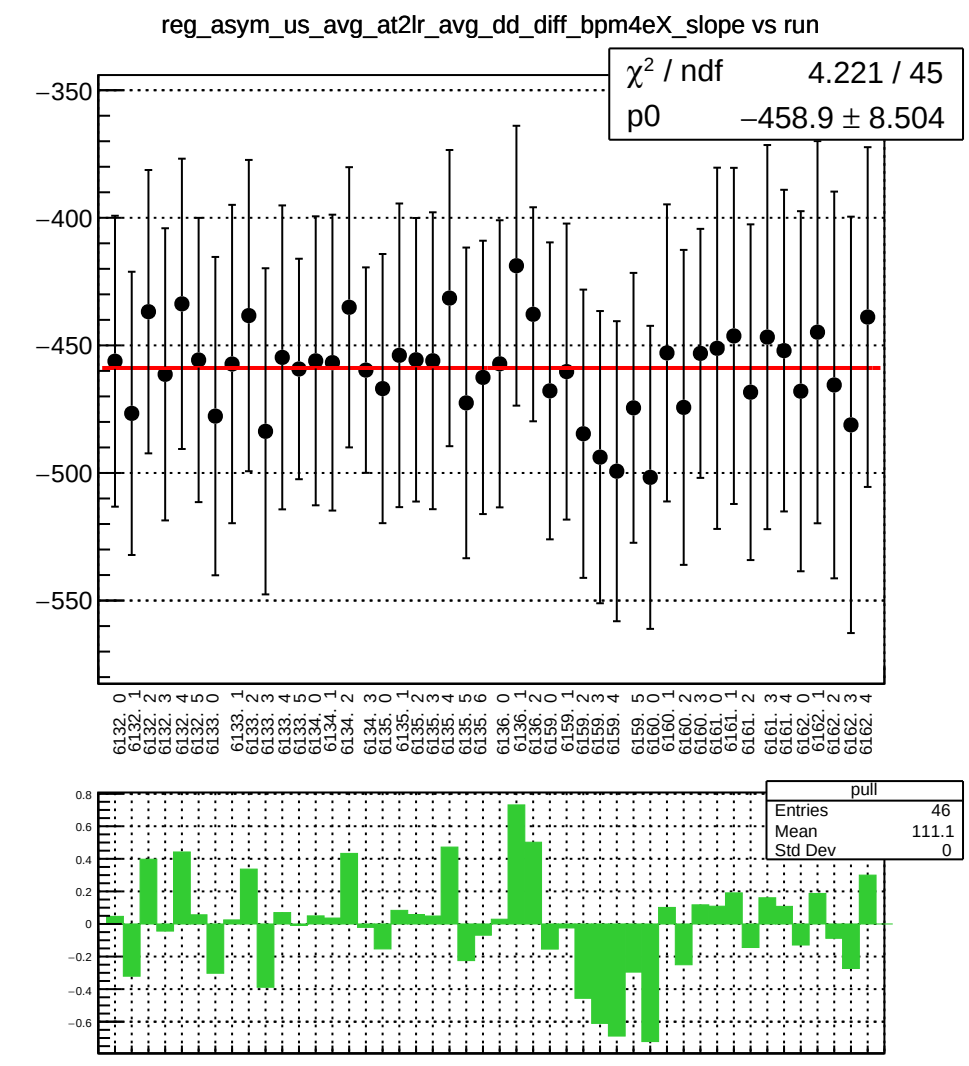

pull1D
Entries 46
Mean −0.006447
Std Dev 0.2132

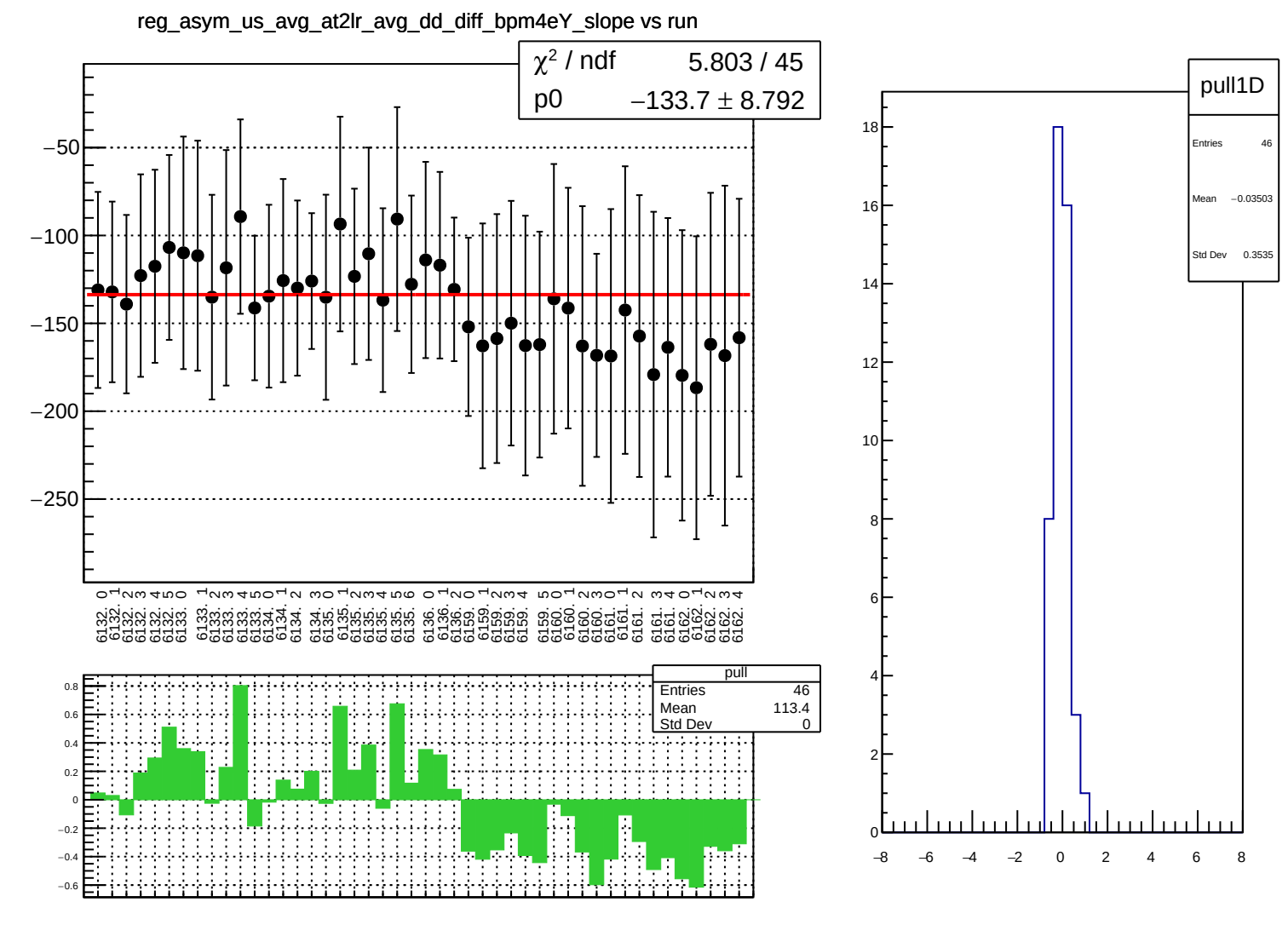

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 5.65 / 45
p0 −261.6 ± 0.9768
pull
Entries 46
Mean 138.1
Std Dev 0

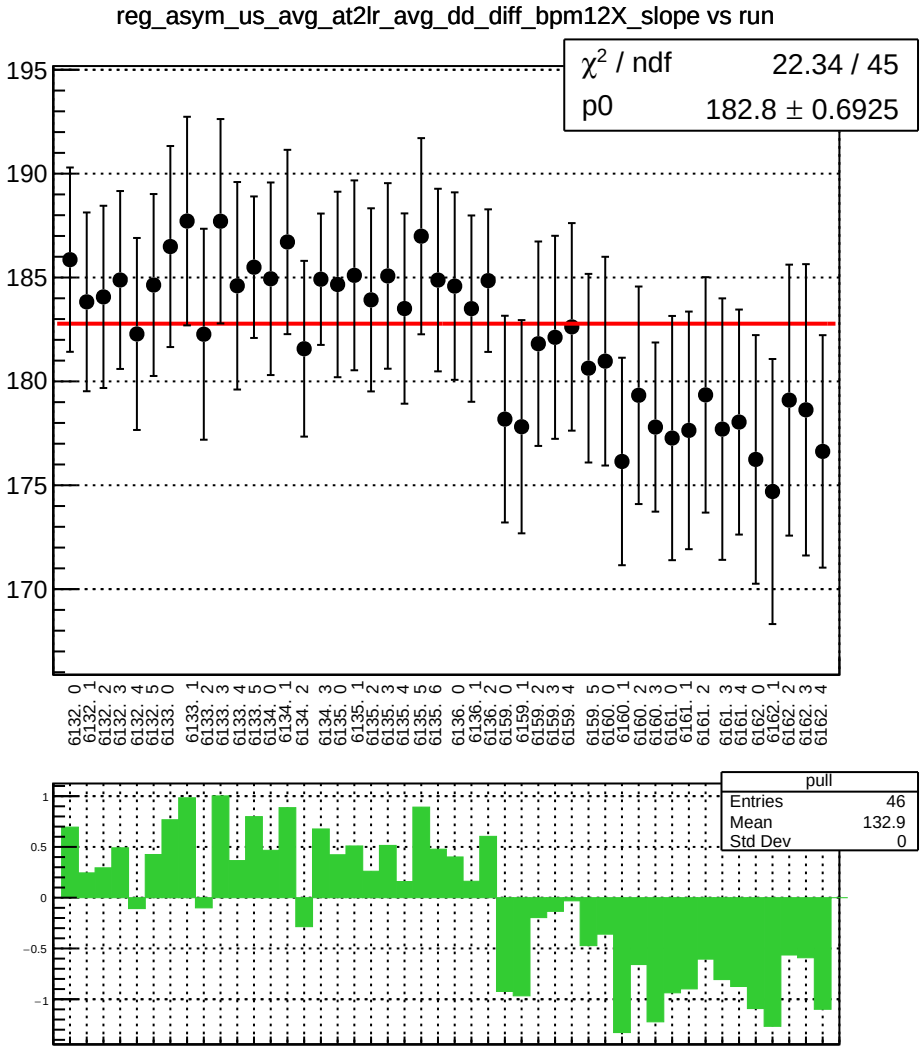

pull1D
Entries 46
Mean 0.01089
Std Dev 0.3503

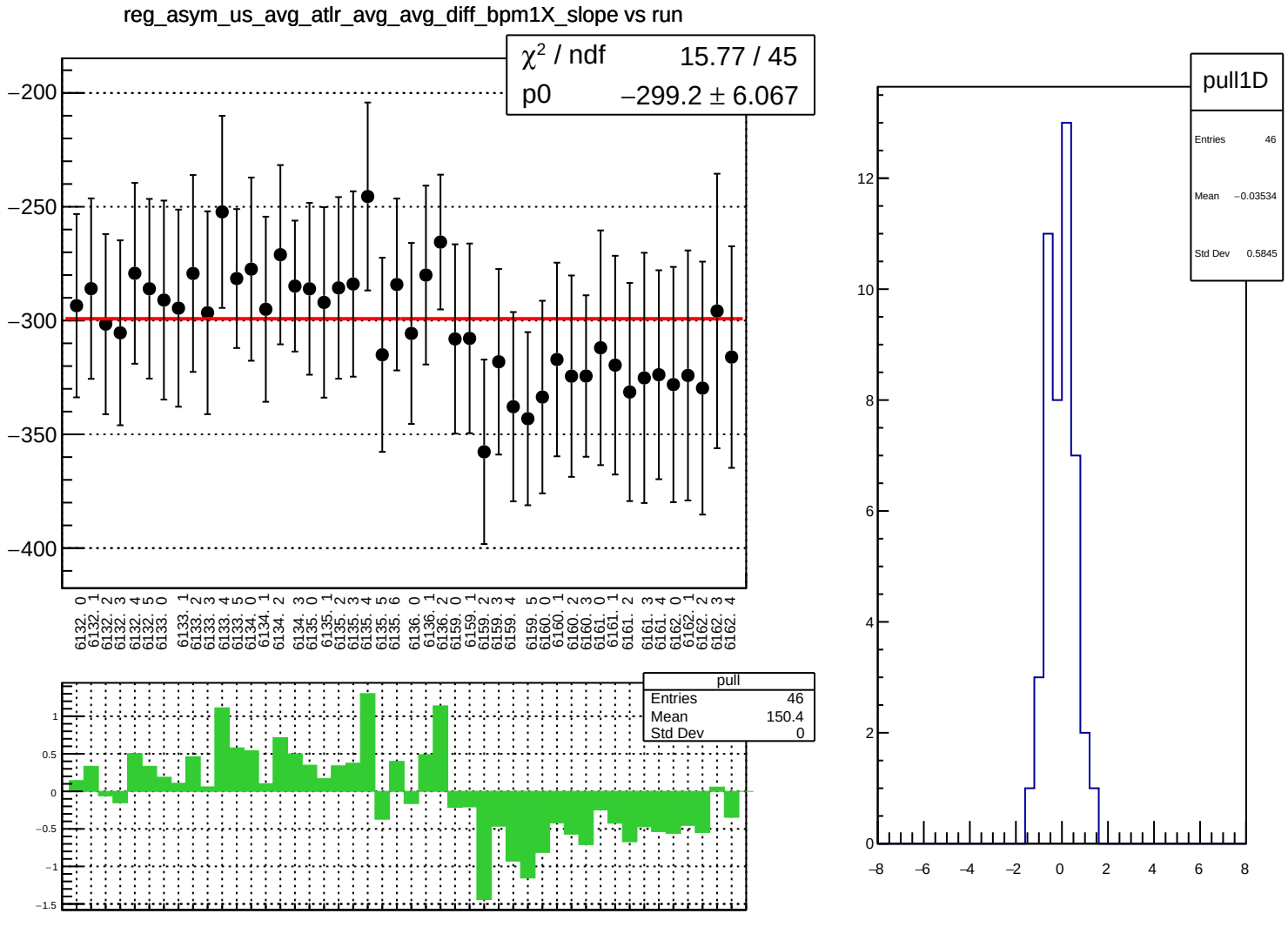

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 5.499 / 45
p0 328.3 ± 6.938
pull
Entries 46
Mean 211.1
Std Dev 0
pull1D
Entries 46
Mean 0.006887
Std Dev 0.3457

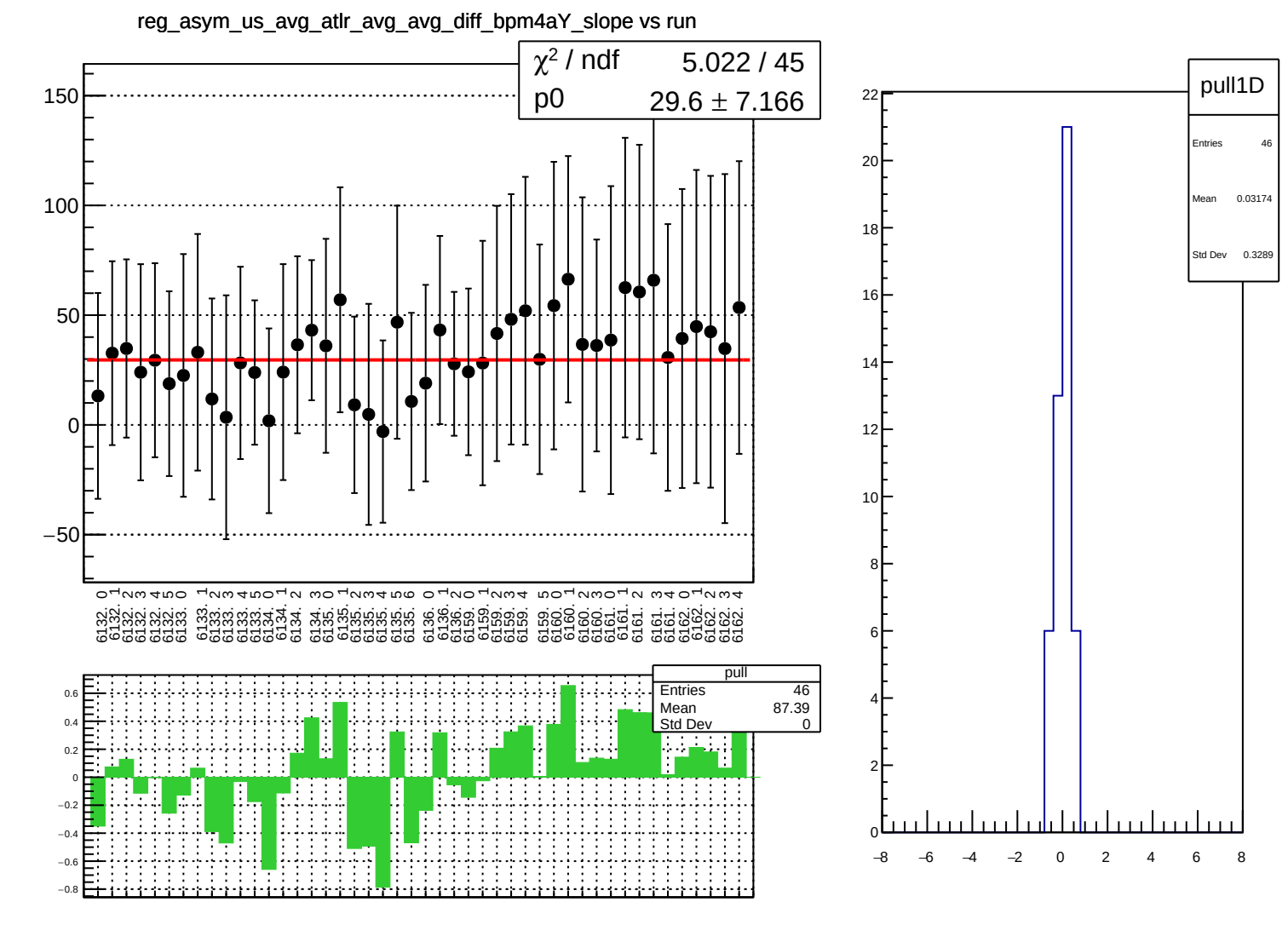

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.778 / 45
p0 20.61 ± 8.218
150
100
50
0
−50
−100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 155.9
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 46
Mean 0.01688
Std Dev 0.2861
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

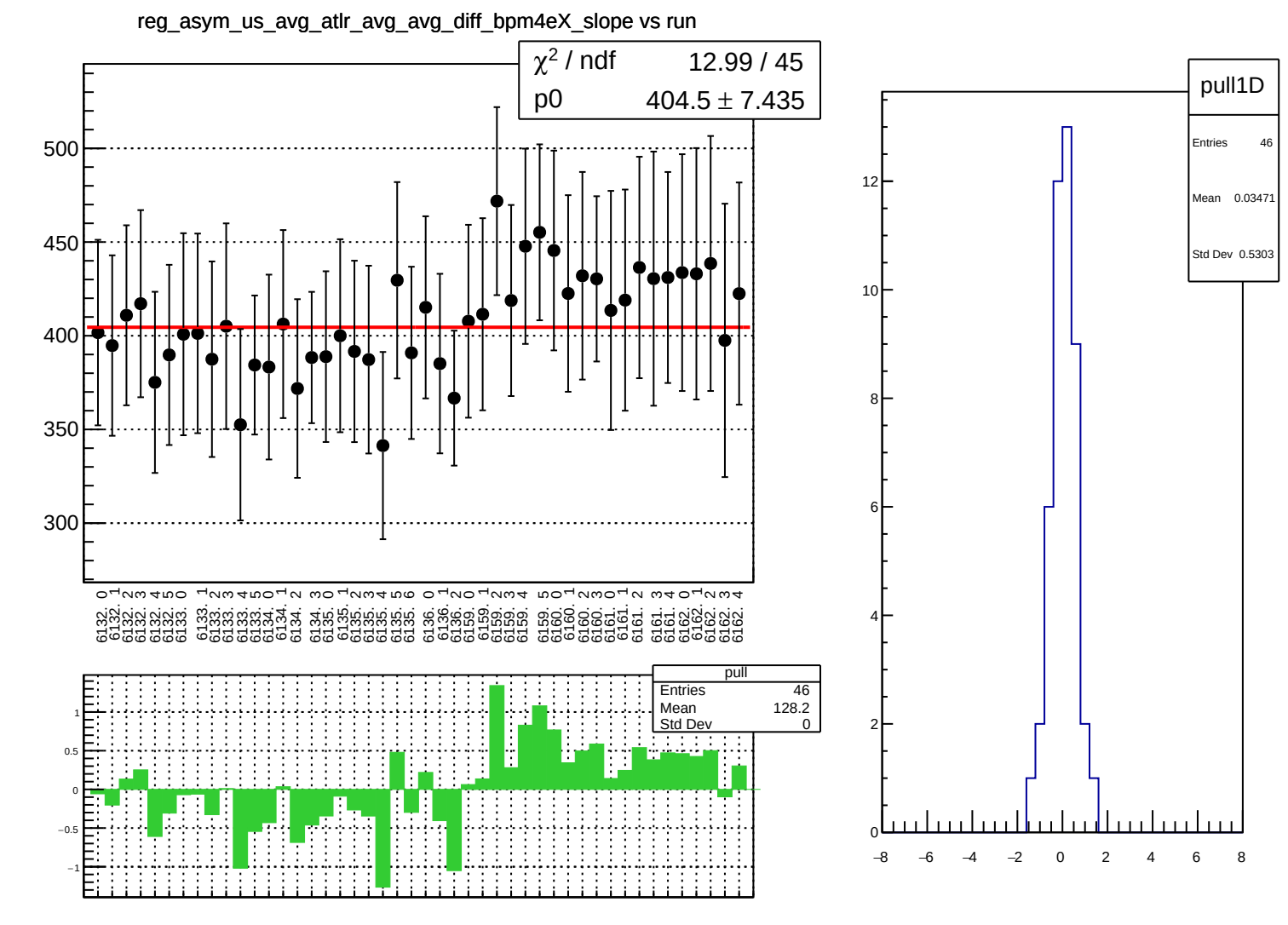

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.221 / 45
p0 −458.9 ± 8.504
−350
−400
−450
−500
−550
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 111.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 46
Mean −0.005985
Std Dev 0.3029
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.803 / 45
p0 −133.7 ± 8.792
−50
−100
−150
−200
−250
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 113.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 46
Mean −0.03503
Std Dev 0.3535
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 22.34 / 45
p0 182.8 ± 0.6925
195
190
185
180
175
170
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 132.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.06563
Std Dev 0.6938
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 15.77 / 45
p0 −299.2 ± 6.067
−200
−250
−300
−350
−400
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 150.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.03534
Std Dev 0.5845
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.022 / 45
p0 29.6 ± 7.166
150
100
50
0
−50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 87.39
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean 0.03174
Std Dev 0.3289
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.99 / 45
p0 404.5 ± 7.435
500
450
400
350
300
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
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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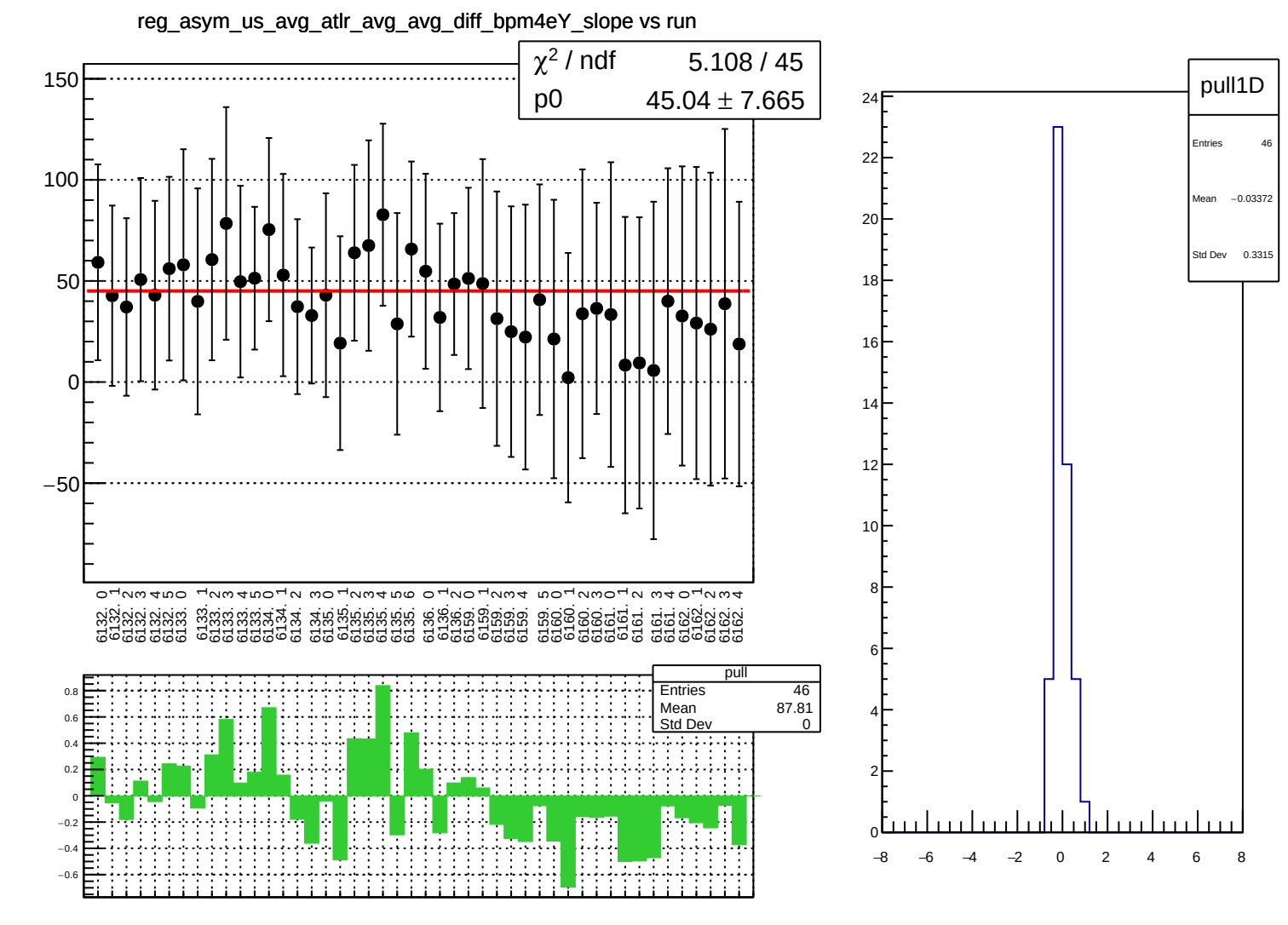
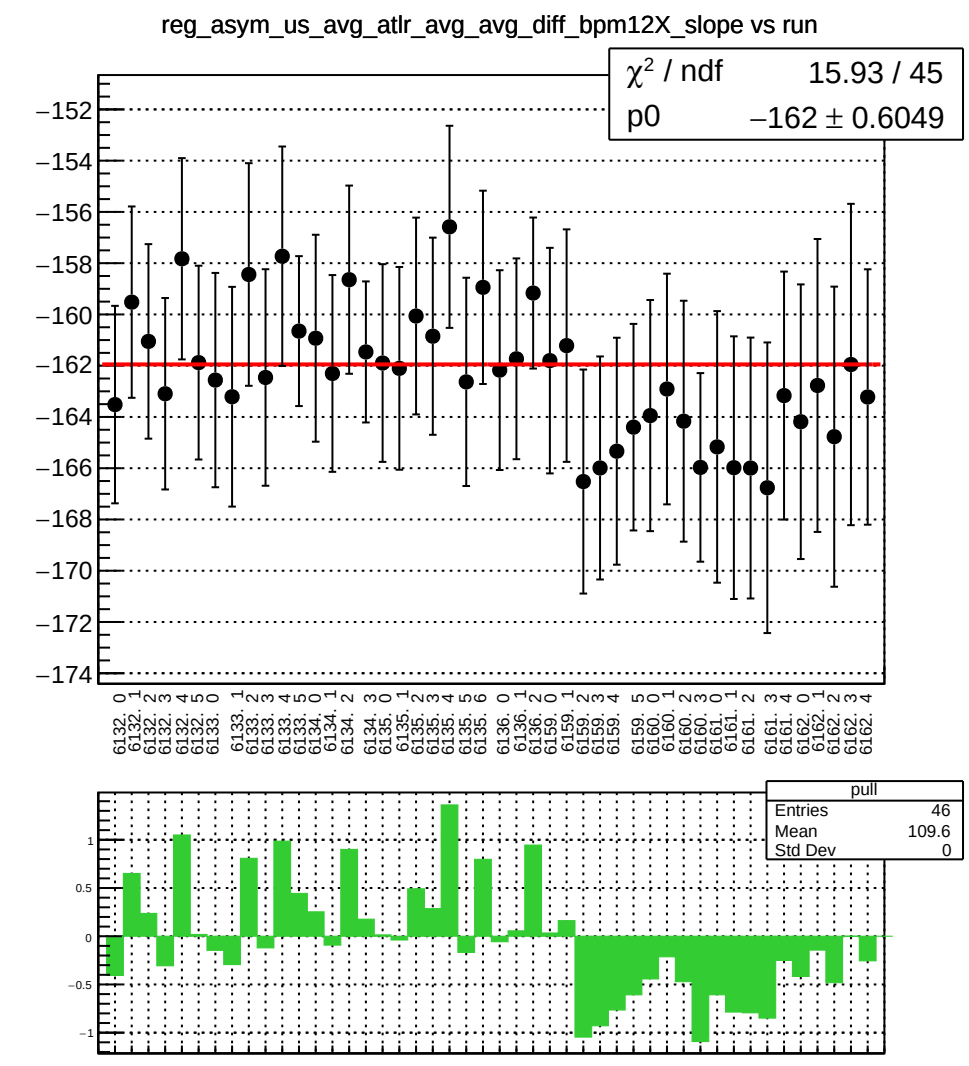
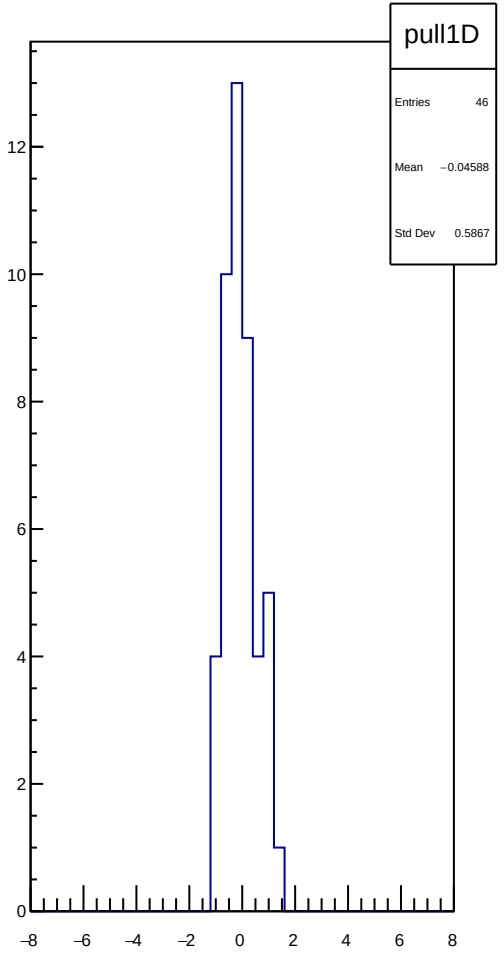
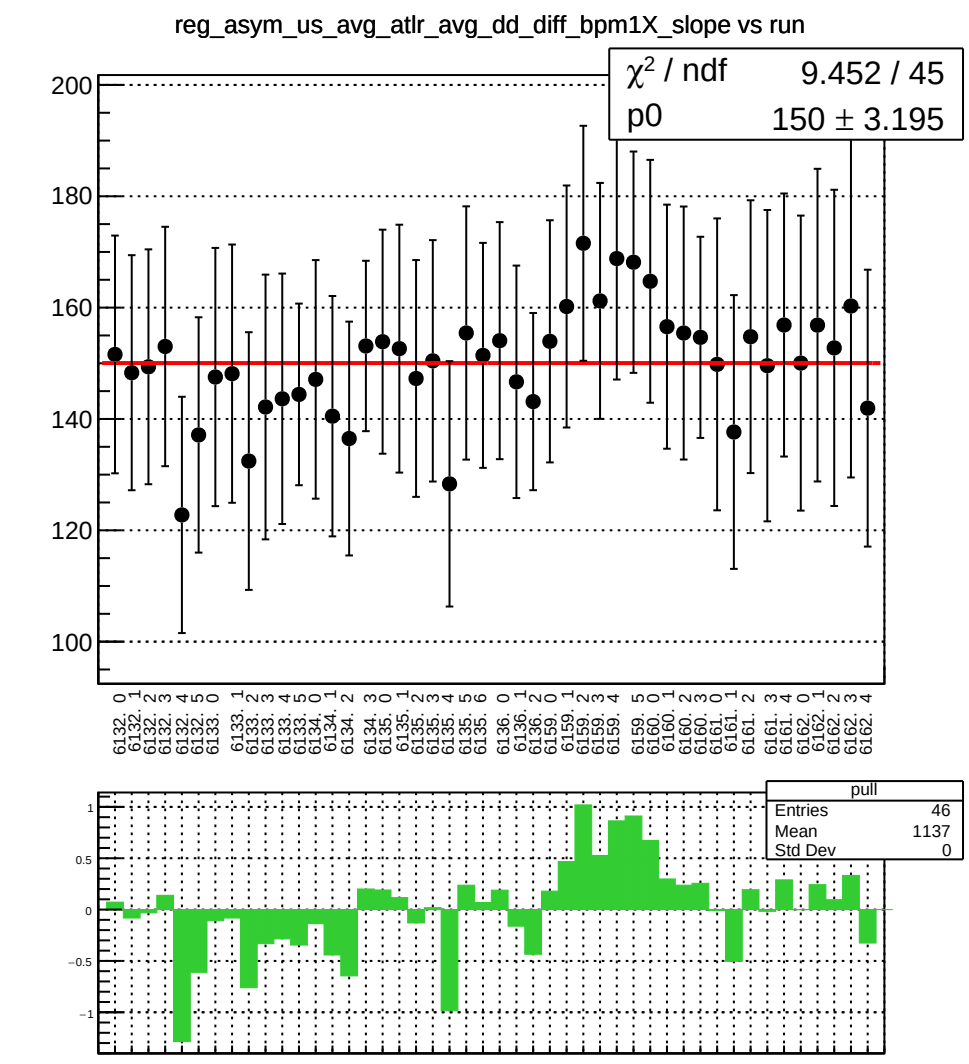
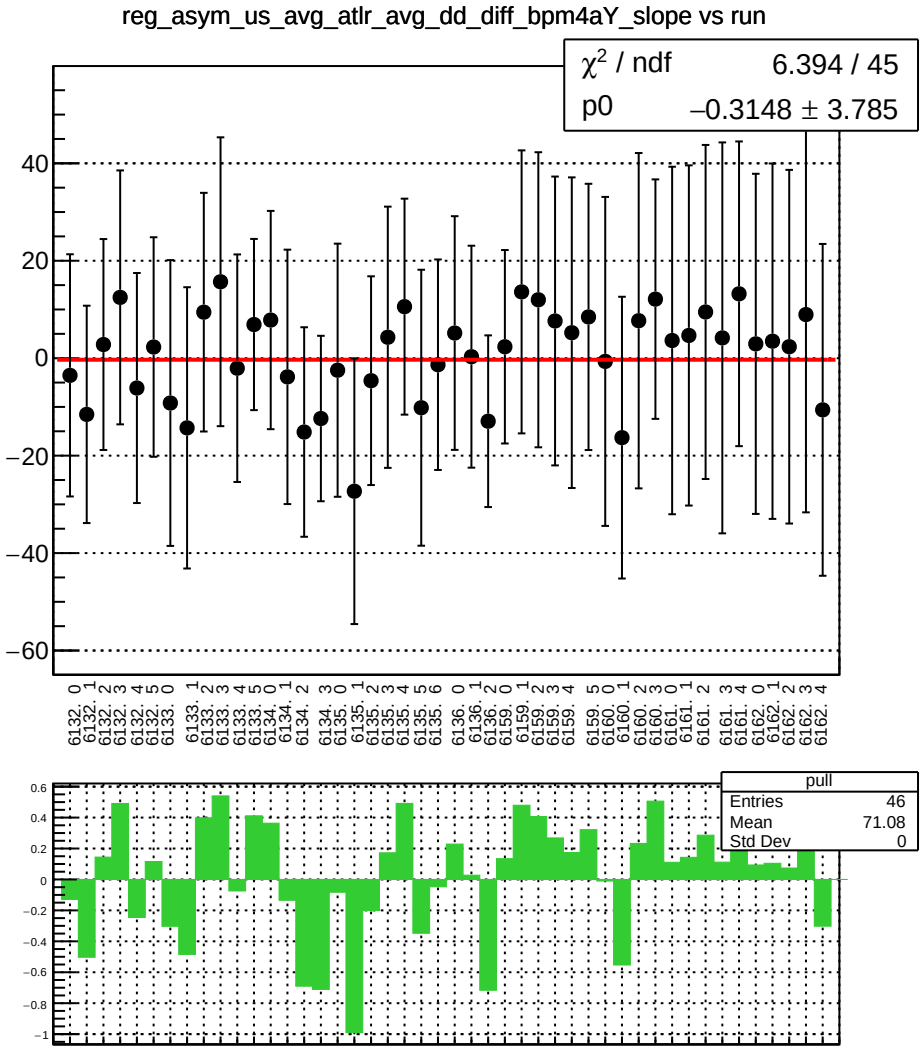
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 128.2
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean 0.03471
Std Dev 0.5303
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

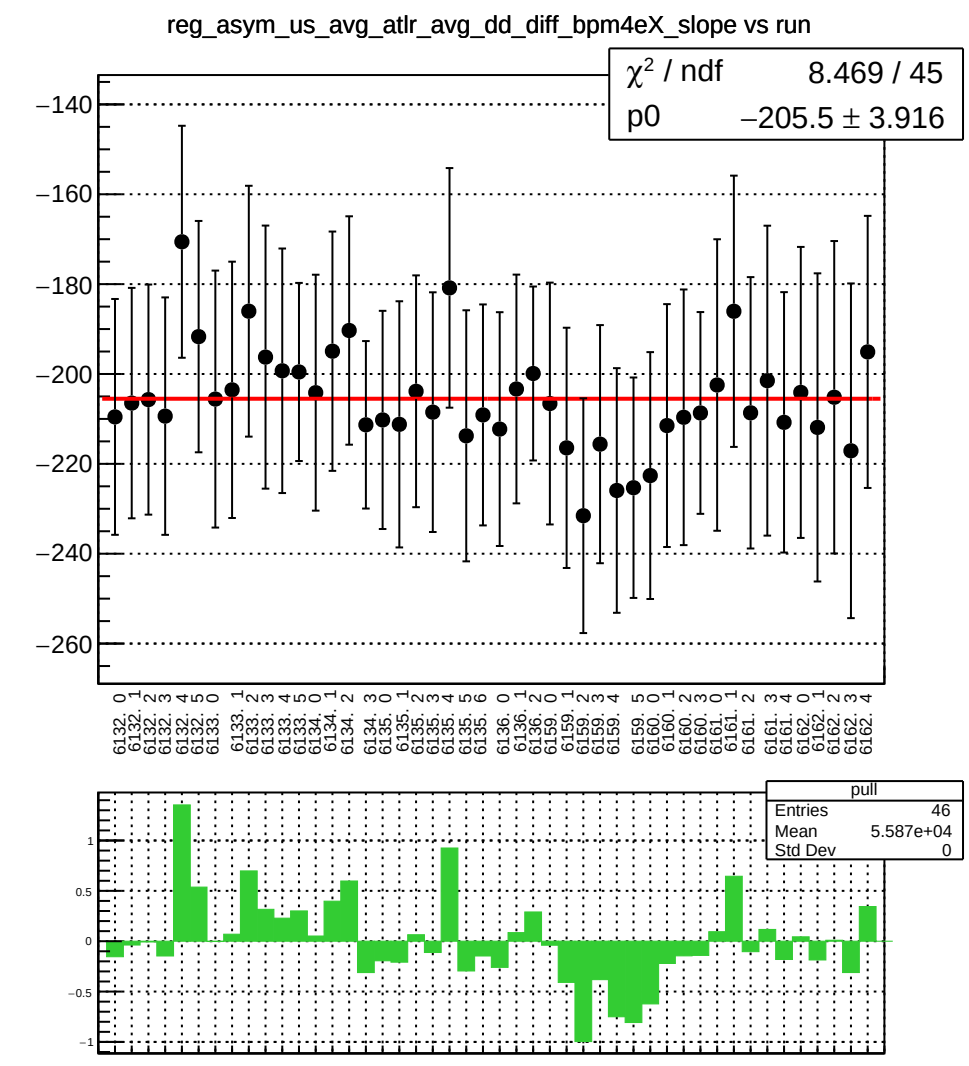

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.108 / 45
p0 45.04 ± 7.665
150
100
50
0
−50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 87.81
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 46
Mean −0.03372
Std Dev 0.3315
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

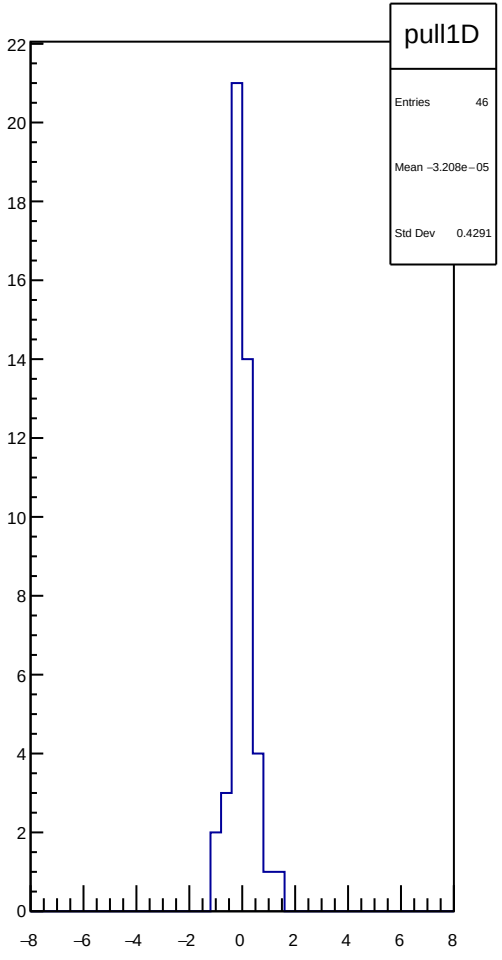

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 15.93 / 45
p0 −162 ± 0.6049
pull
Entries 46
Mean 109.6
Std Dev 0

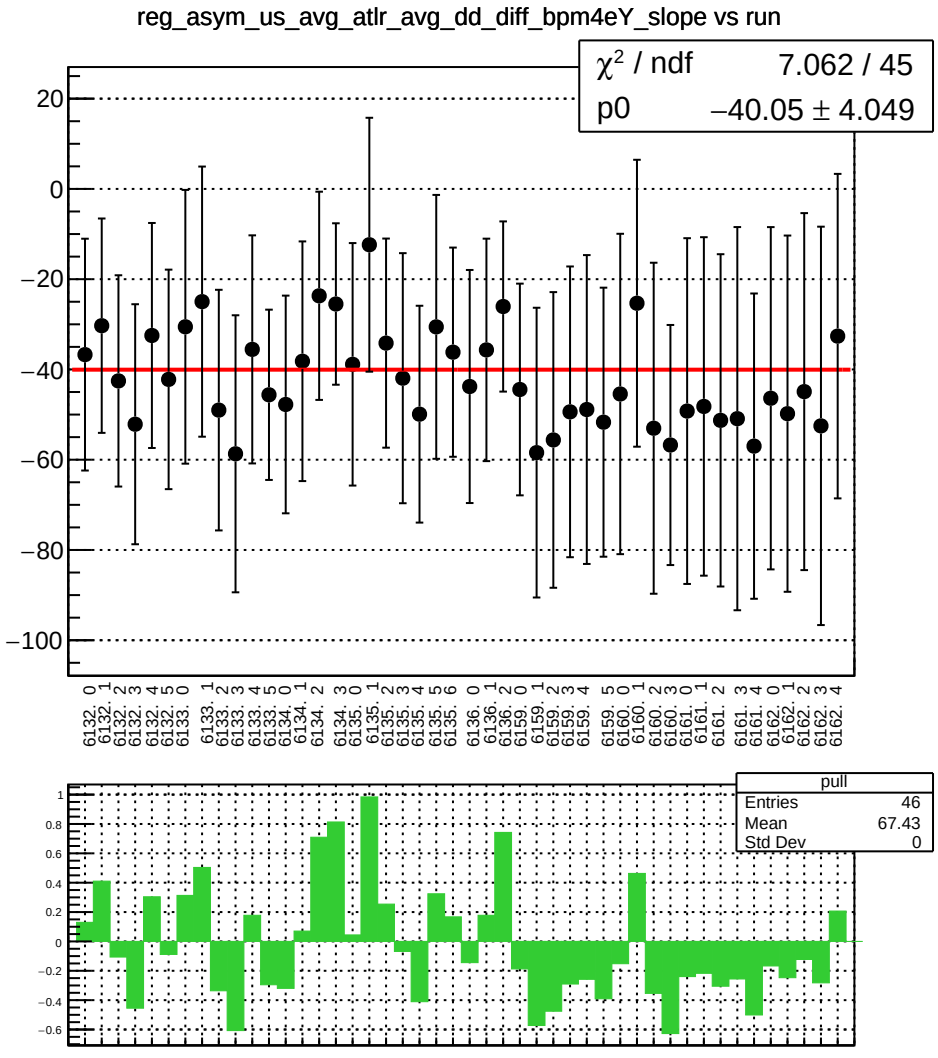

pull1D
Entries 46
Mean −0.04588
Std Dev 0.5867

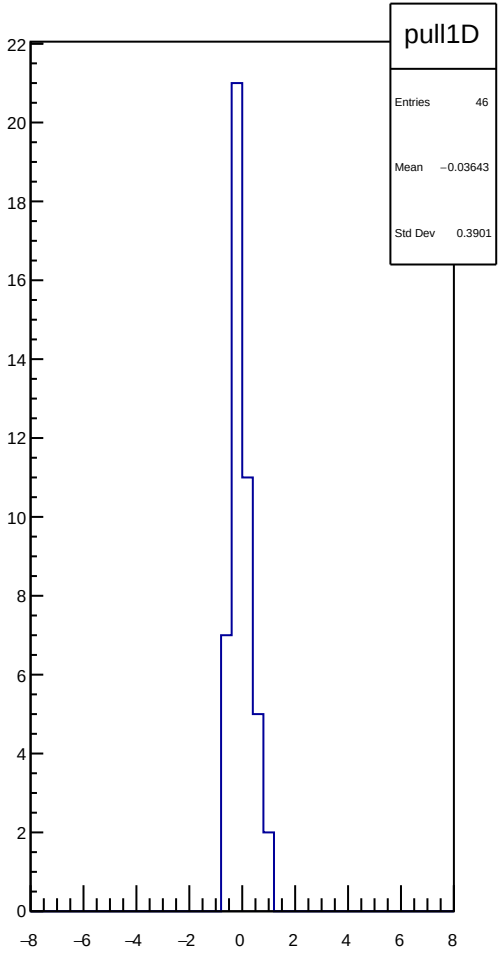

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 9.452 / 45
p0 150 ± 3.195
200
180
160
140
120
100
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 1137
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean 0.002264
Std Dev 0.4533
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

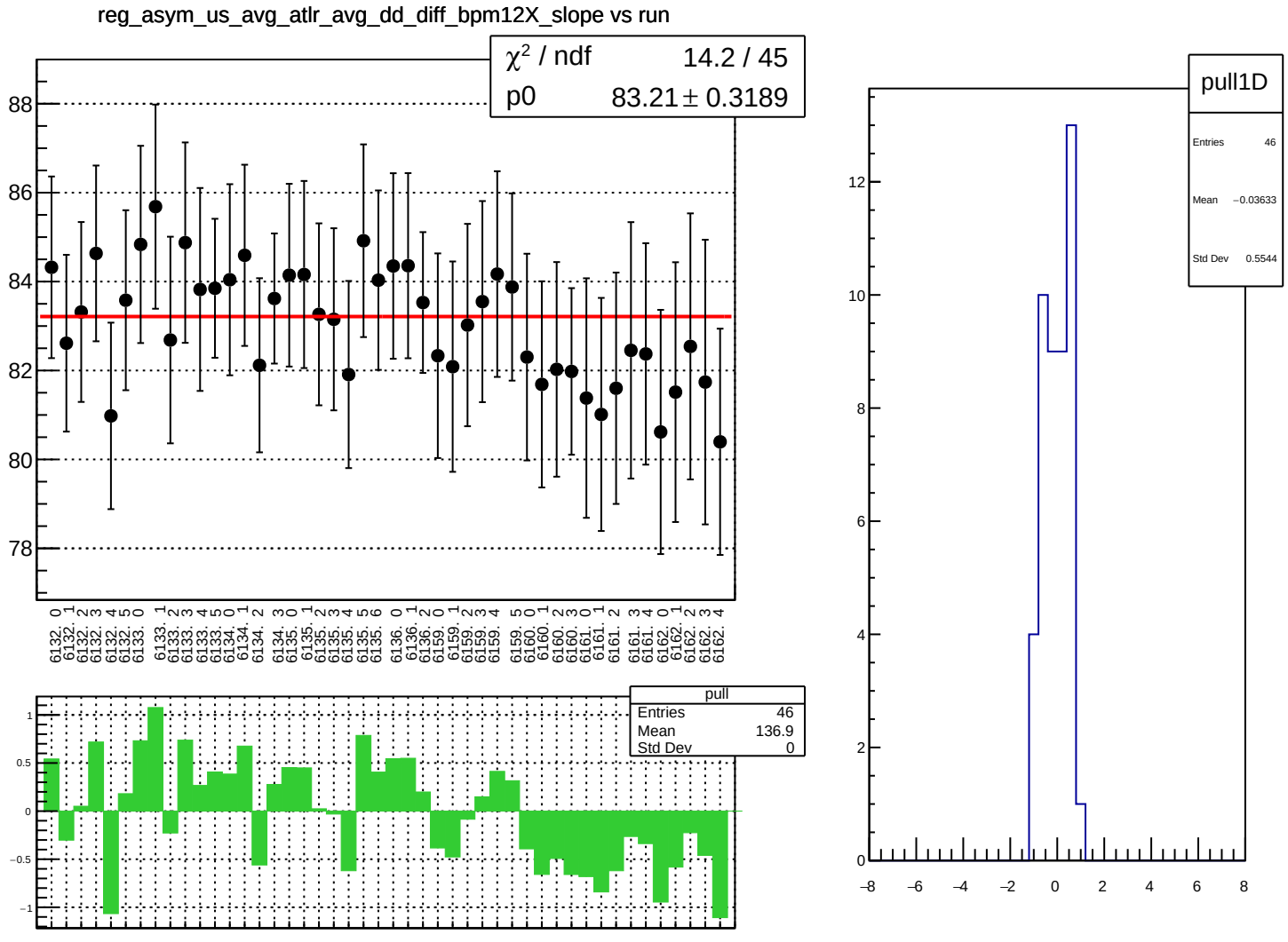

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.394 / 45
p0 −0.3148 ± 3.785
pull
Entries 46
Mean 71.08
Std Dev 0
pull1D
Entries 46
Mean 0.02103
Std Dev 0.3722

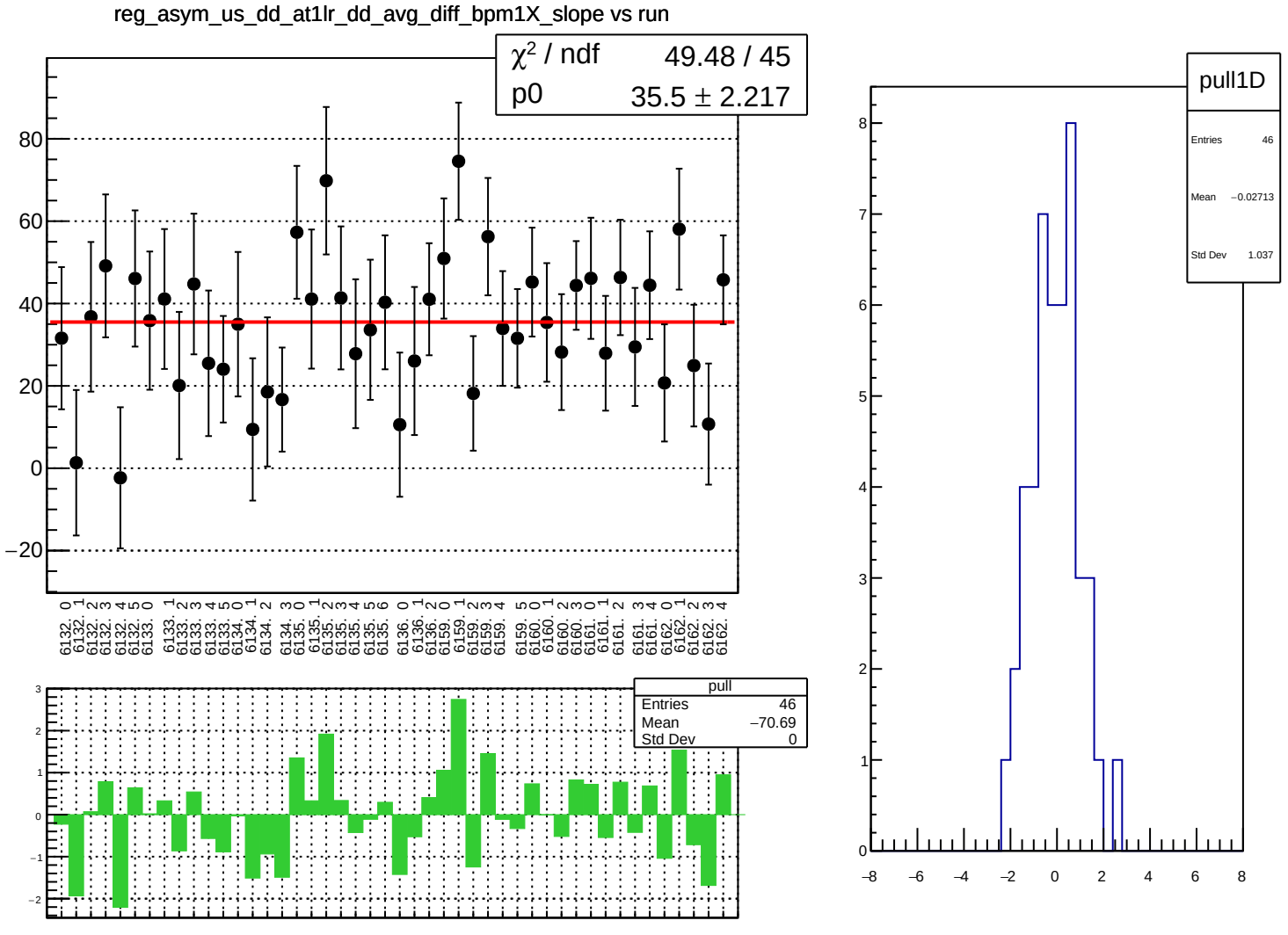

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.469 / 45
p0 −205.5 ± 3.916
−140
−160
−180
−200
−220
−240
−260
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 5.587e+04
Std Dev 0
1
0.5
0
−0.5
−1

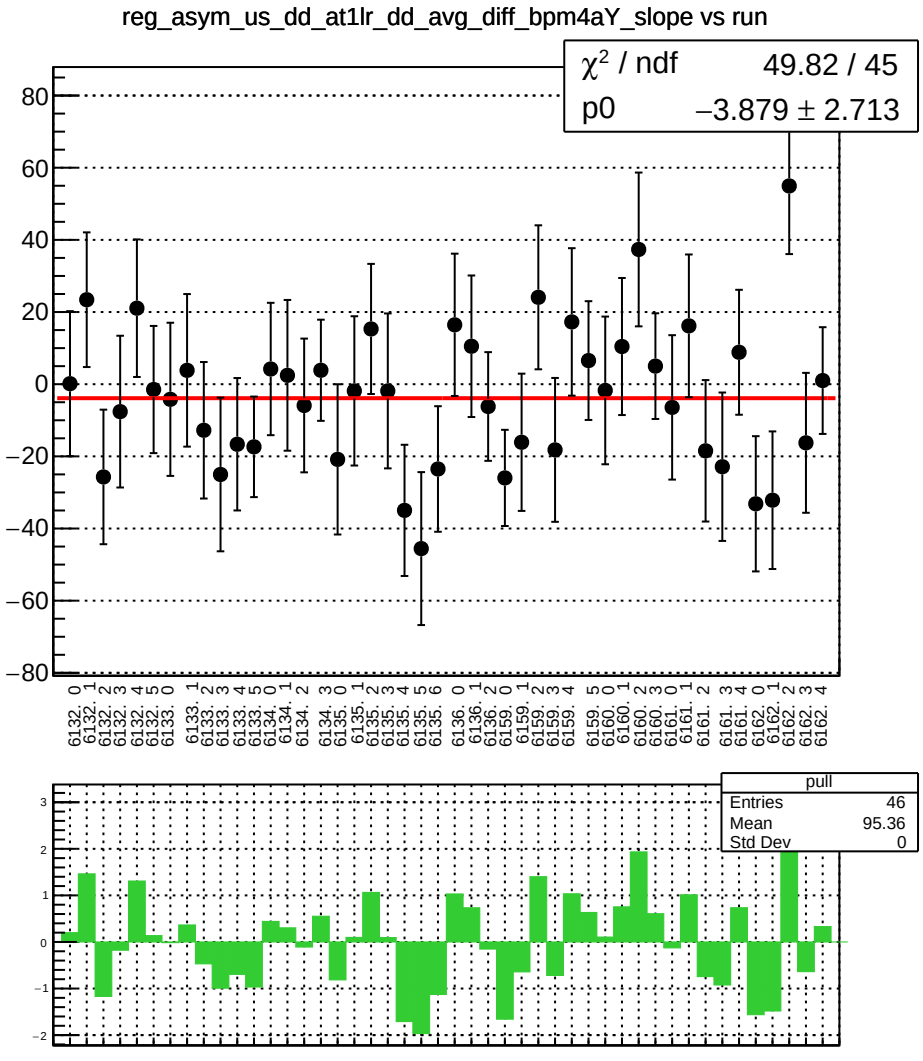

pull1D
Entries 46
Mean −3.208e−05
Std Dev 0.4291
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

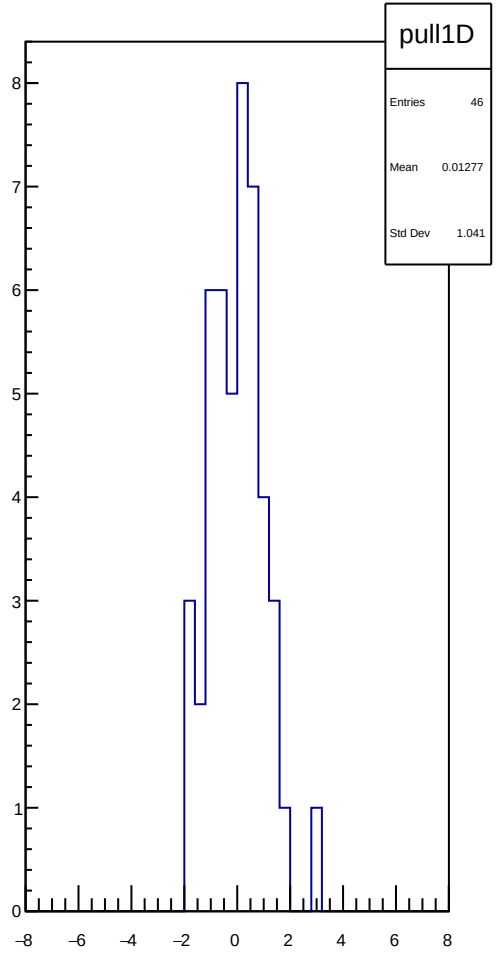

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.062 / 45
p0 −40.05 ± 4.049
pull
Entries 46
Mean 67.43
Std Dev 0

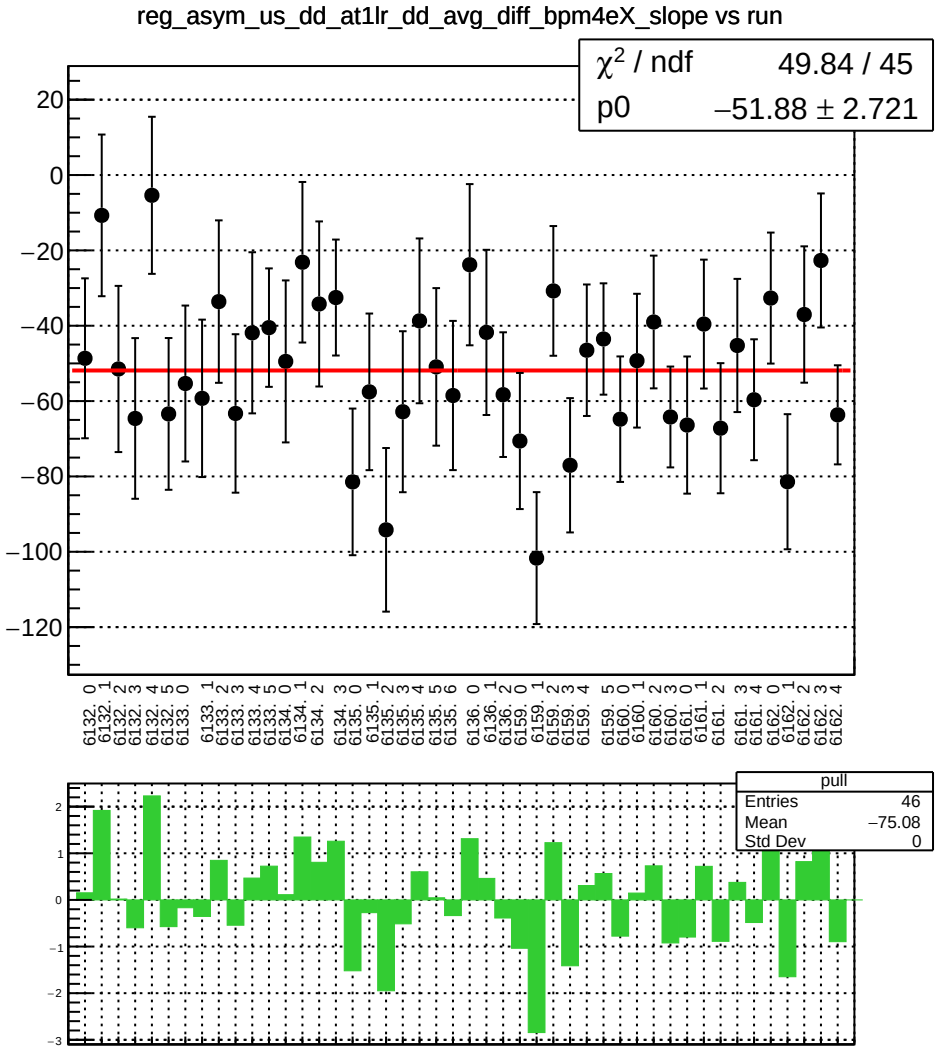

pull1D
Entries 46
Mean −0.03643
Std Dev 0.3901

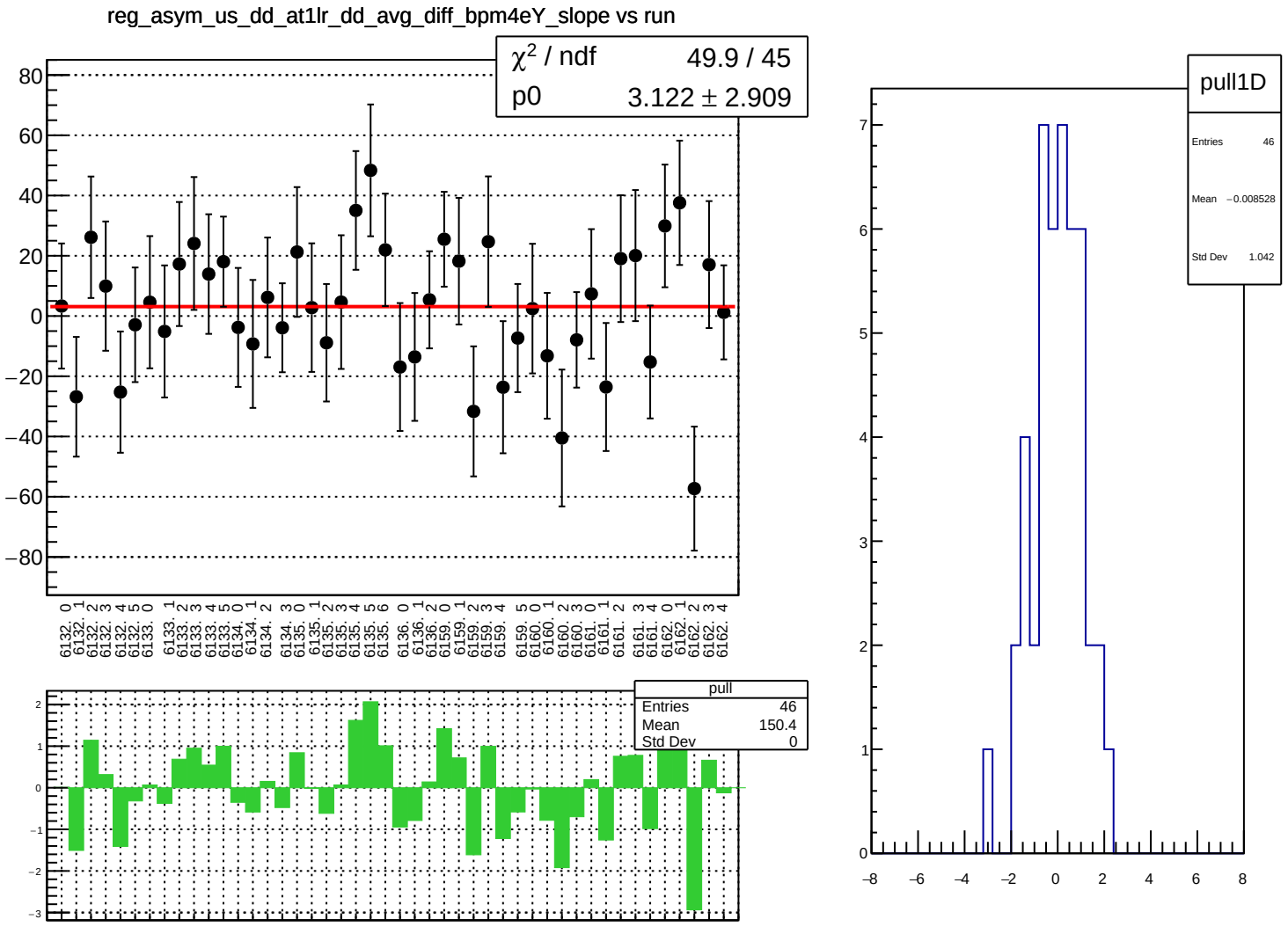

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 14.2 / 45
p0 83.21 ± 0.3189
88
86
84
82
80
78
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 136.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.03633
Std Dev 0.5544
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

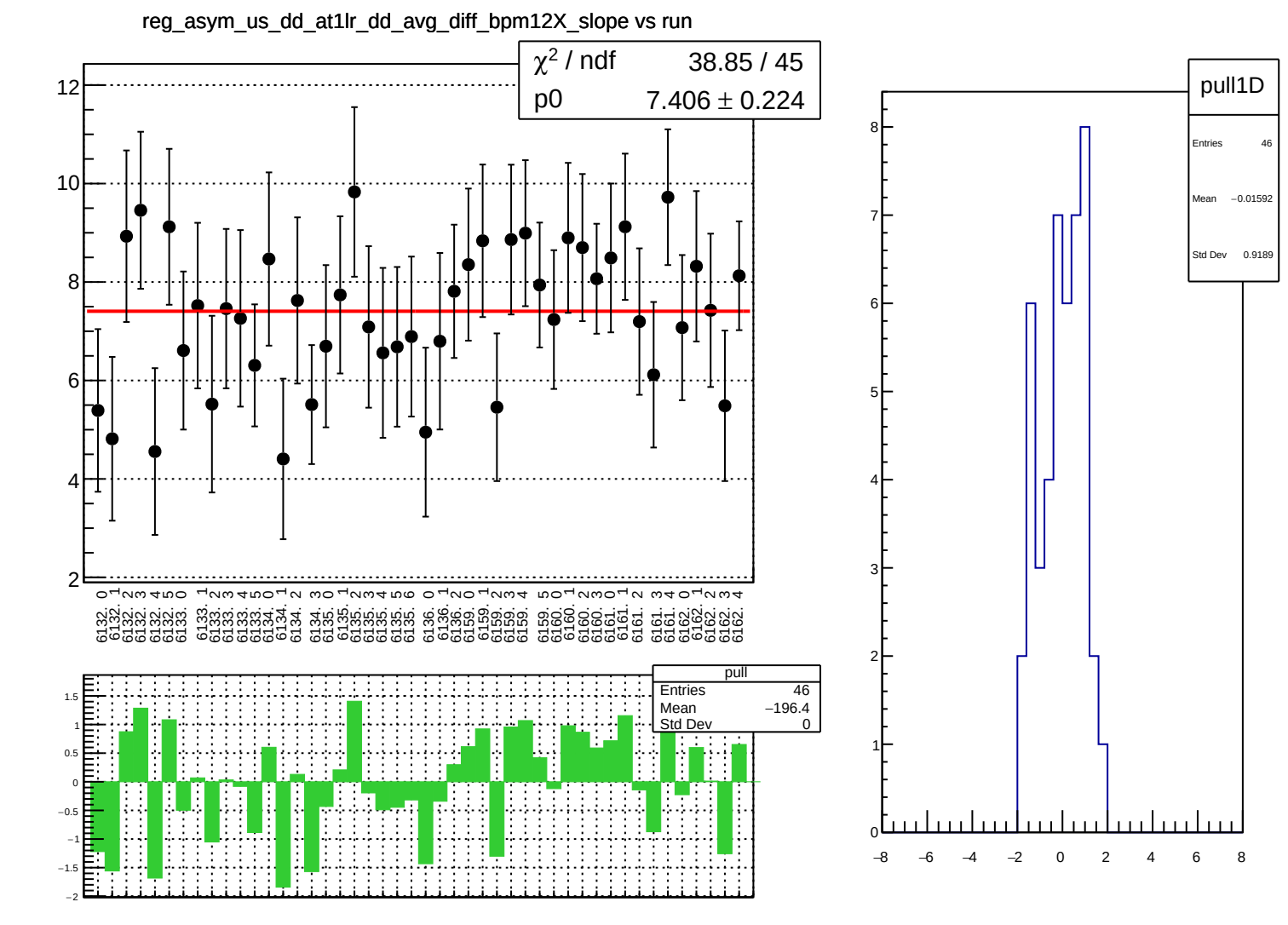

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 49.48 / 45
p0 35.5 ± 2.217
pull
Entries 46
Mean −70.69
Std Dev 0
pull1D
Entries 46
Mean −0.02713
Std Dev 1.037

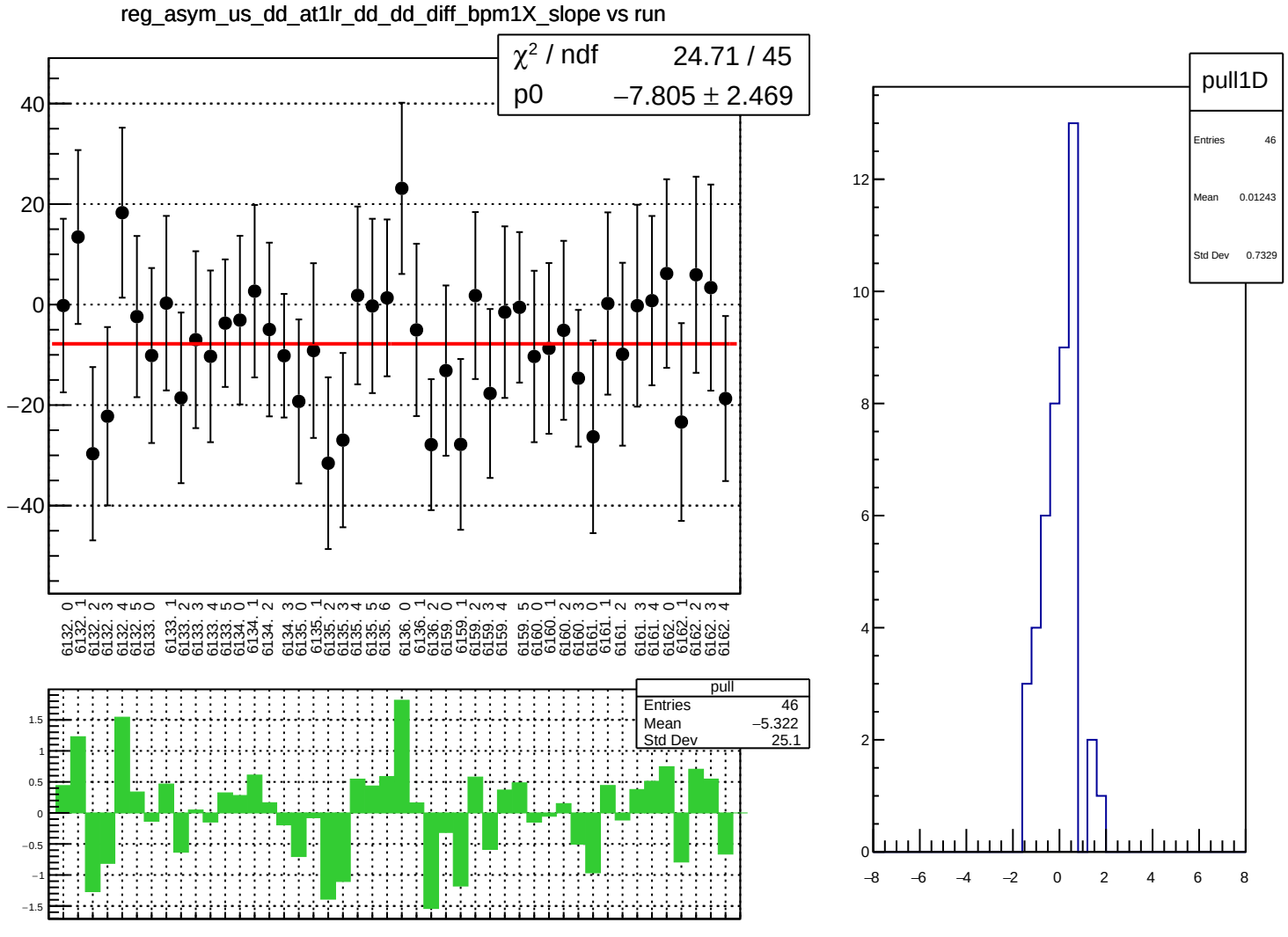

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 49.82 / 45
p0 −3.879 ± 2.713
pull
Entries 46
Mean 95.36
Std Dev 0

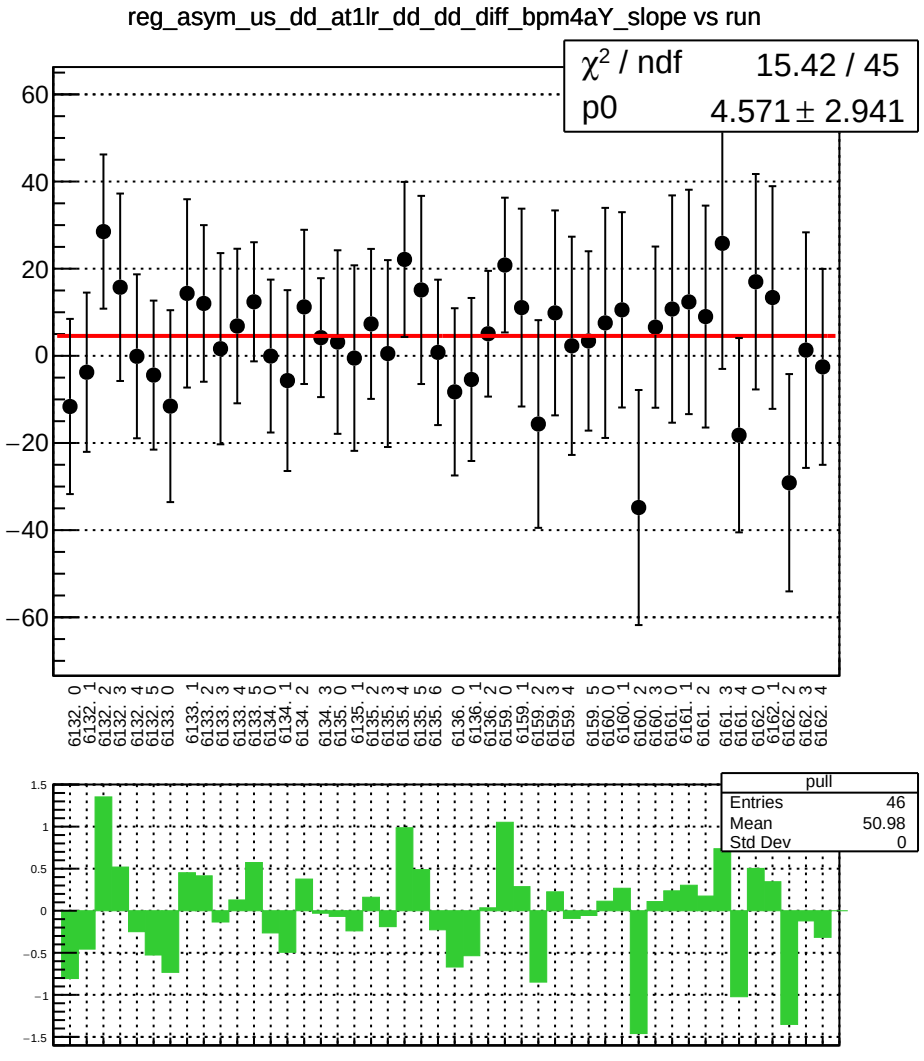

pull1D
Entries 46
Mean 0.01277
Std Dev 1.041

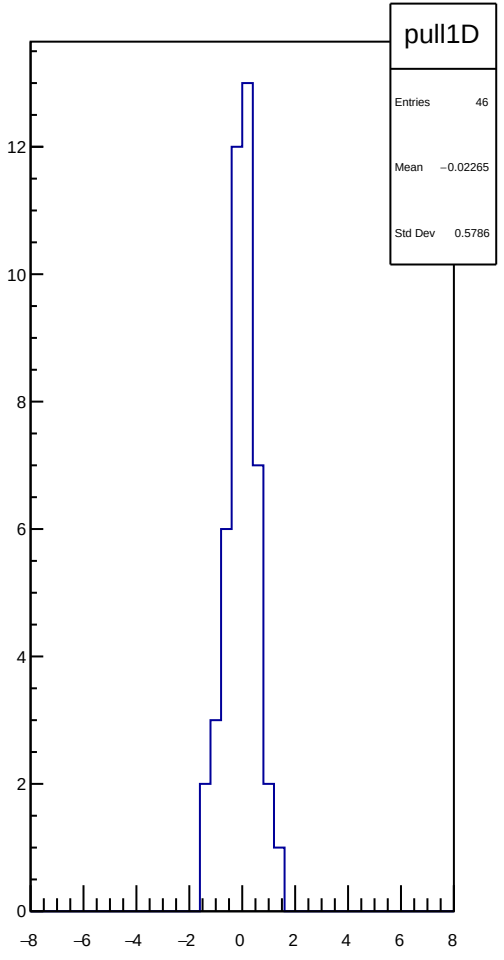

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 49.84 / 45
p0 −51.88 ± 2.721
pull
Entries 46
Mean −75.08
Std Dev 0
pull1D
Entries 46
Mean 0.02252
Std Dev 1.041

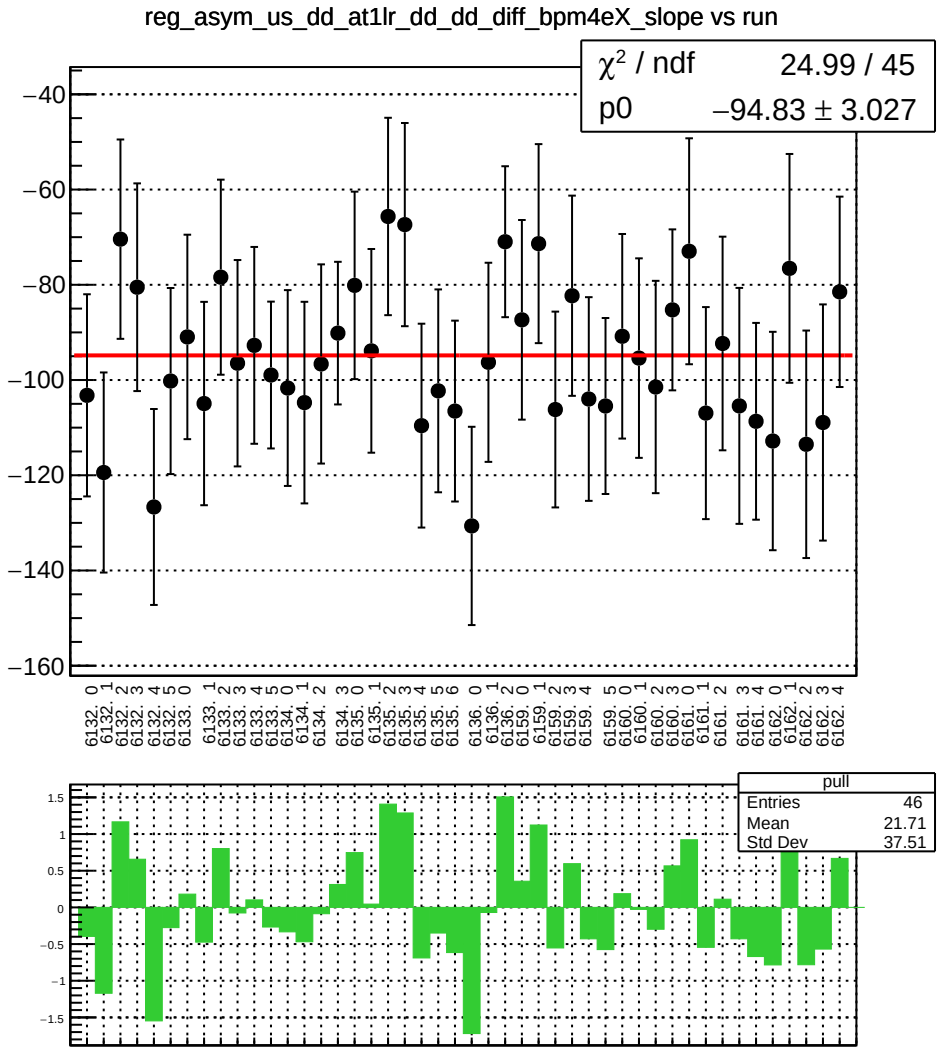

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 49.9 / 45
p0 3.122 ± 2.909
pull
Entries 46
Mean 150.4
Std Dev 0
pull1D
Entries 46
Mean −0.008528
Std Dev 1.042

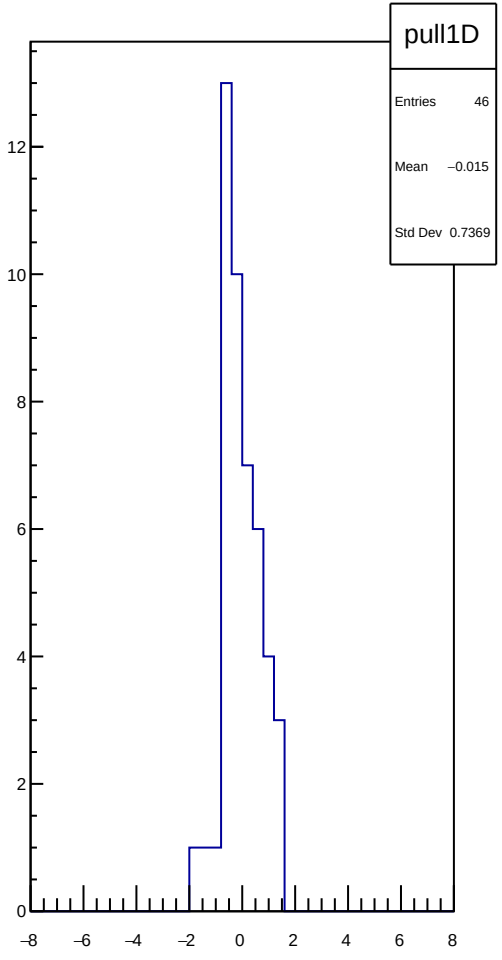

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 38.85 / 45
p0 7.406 ± 0.224
pull
Entries 46
Mean −196.4
Std Dev 0
pull1D
Entries 46
Mean −0.01592
Std Dev 0.9189

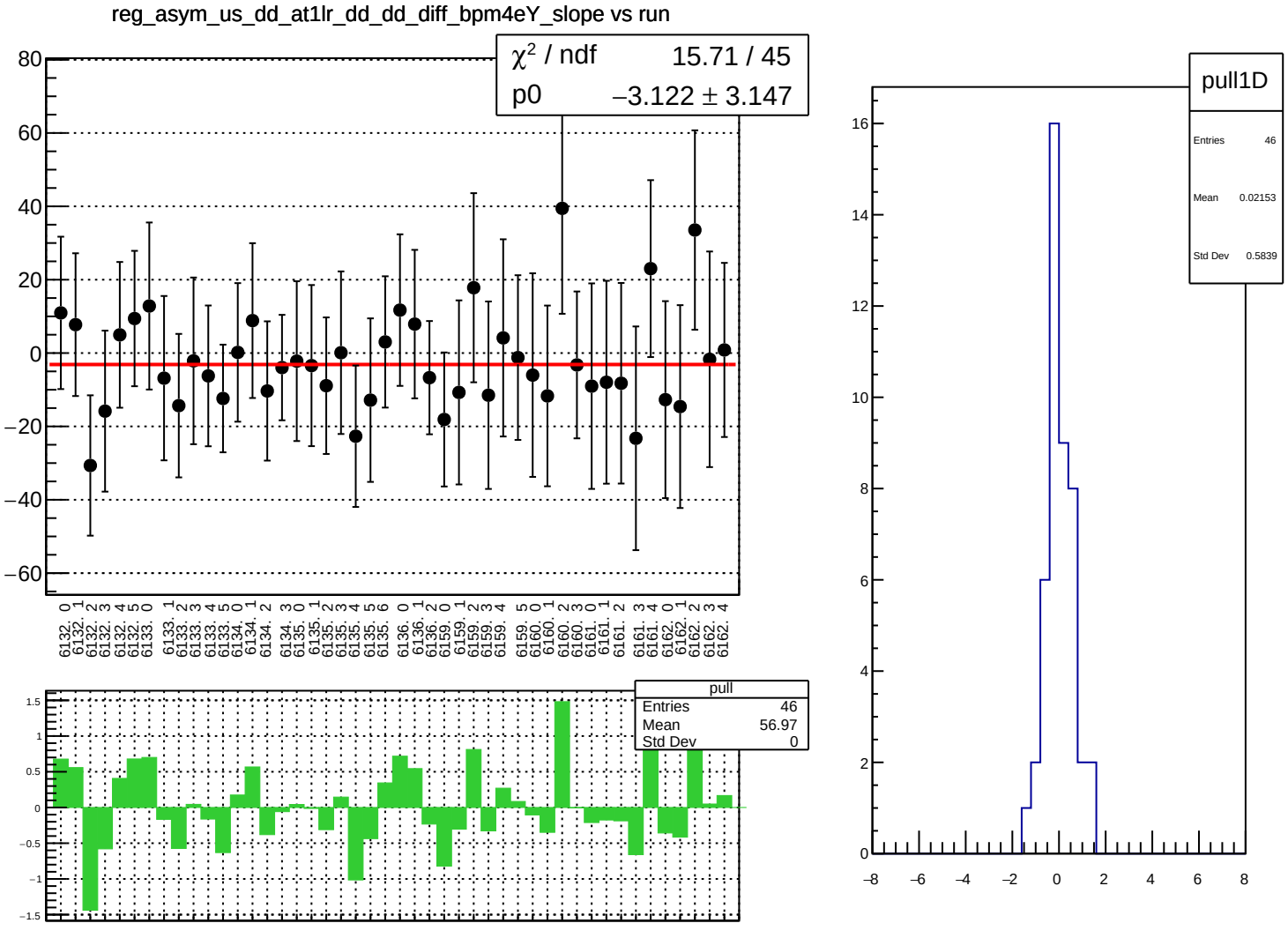

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 24.71 / 45
p0 −7.805 ± 2.469
40
20
0
−20
−40
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −5.322
Std Dev 25.1
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.01243
Std Dev 0.7329
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

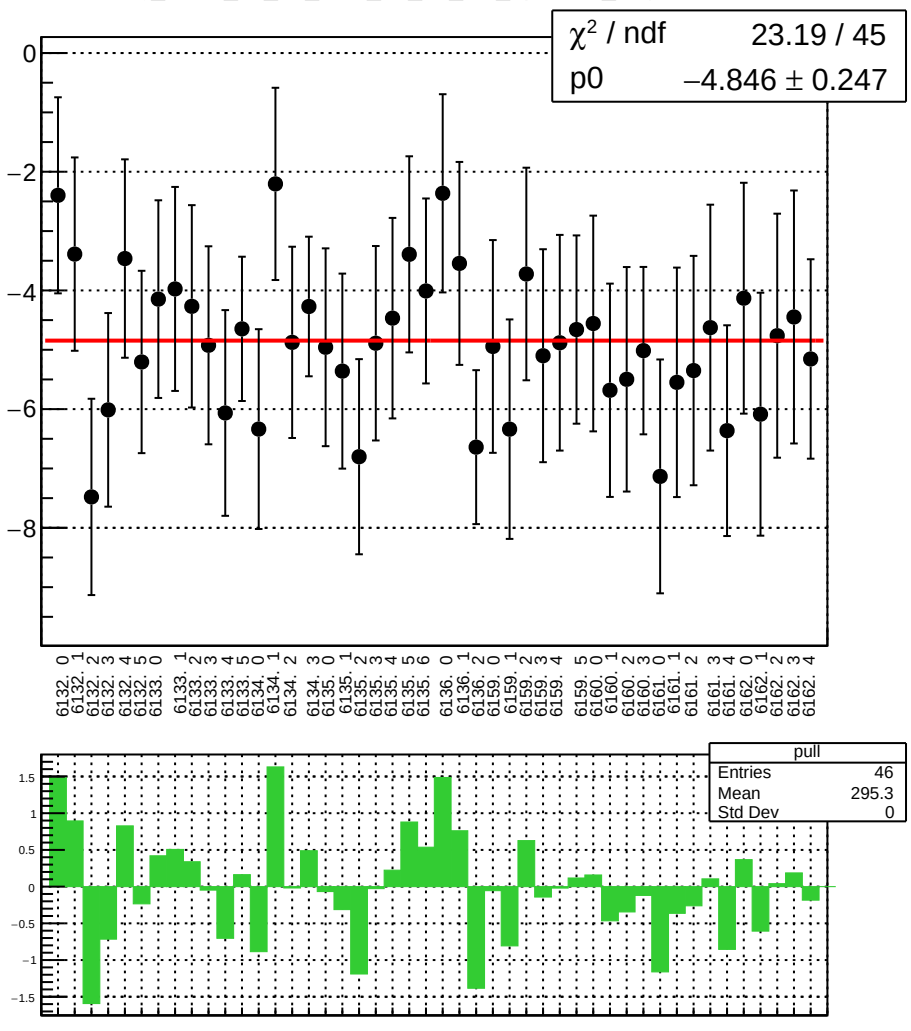

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.42 / 45
p0 4.571 ± 2.941
pull
Entries 46
Mean 50.98
Std Dev 0

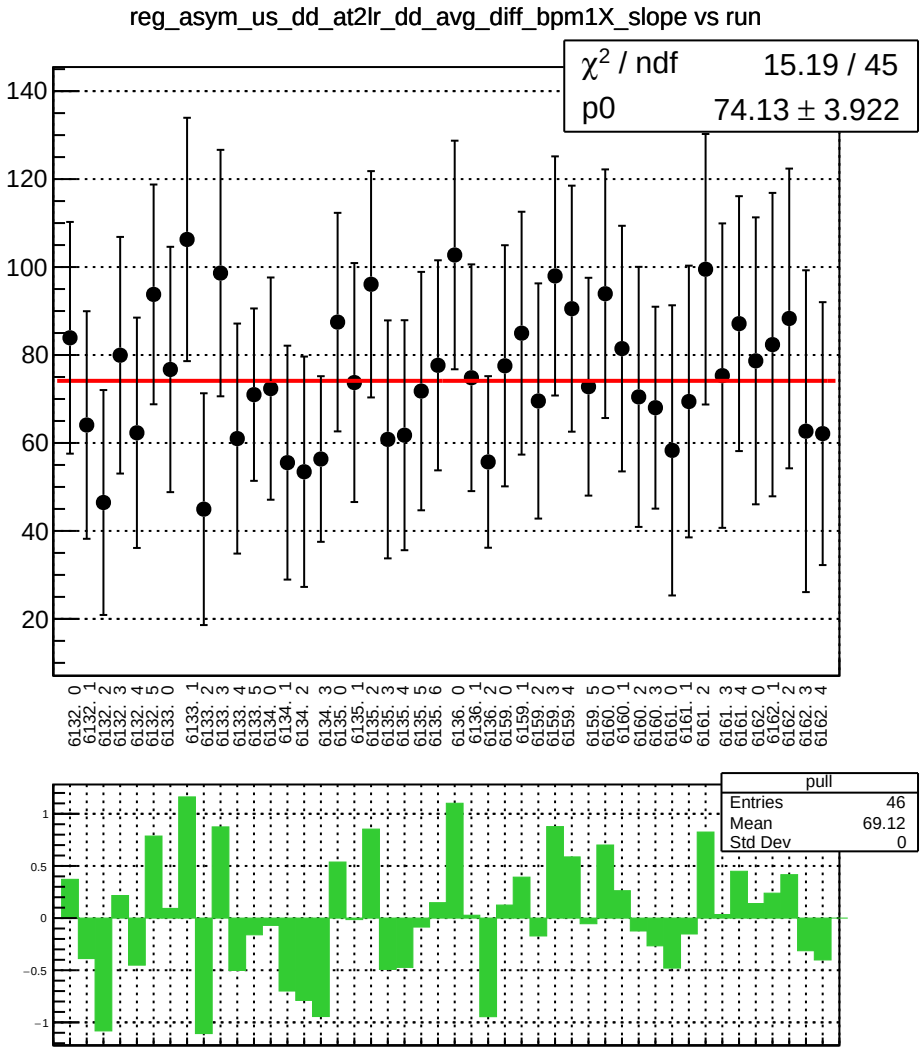

pull1D
Entries 46
Mean −0.02265
Std Dev 0.5786

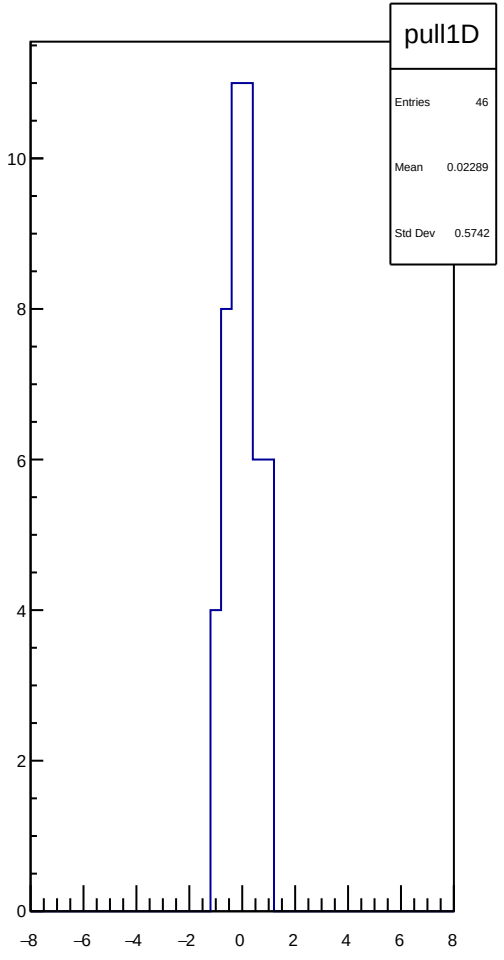

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.99 / 45
p0 −94.83 ± 3.027
pull
Entries 46
Mean 21.71
Std Dev 37.51

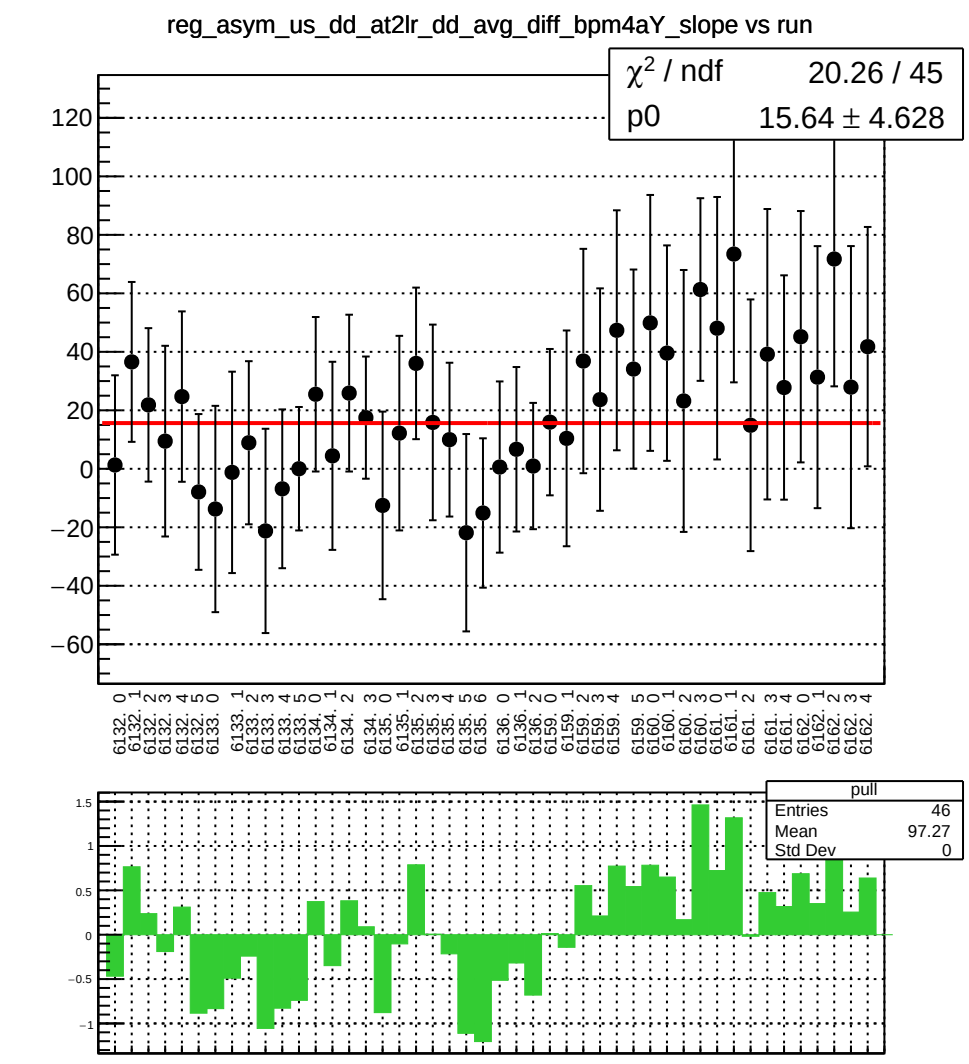

pull1D
Entries 46
Mean −0.015
Std Dev 0.7369

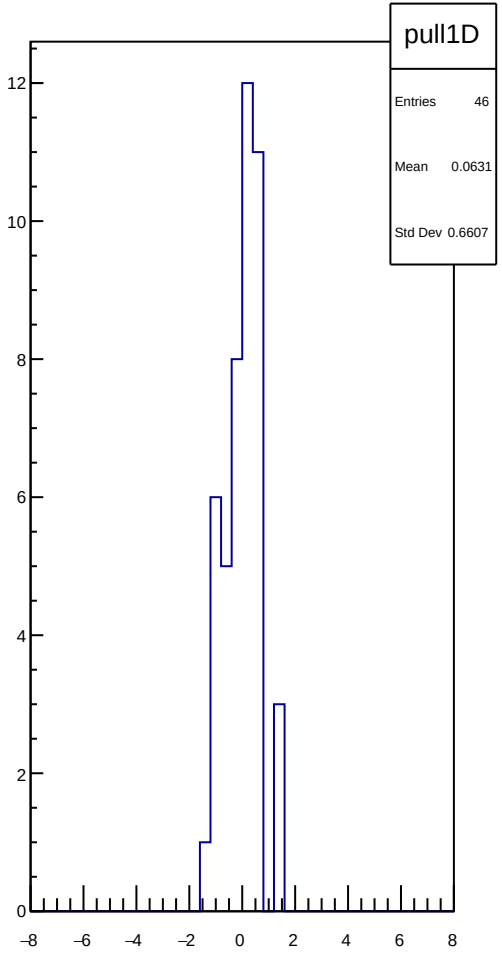

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.71 / 45
p0 −3.122 ± 3.147
pull
Entries 46
Mean 56.97
Std Dev 0
pull1D
Entries 46
Mean 0.02153
Std Dev 0.5839

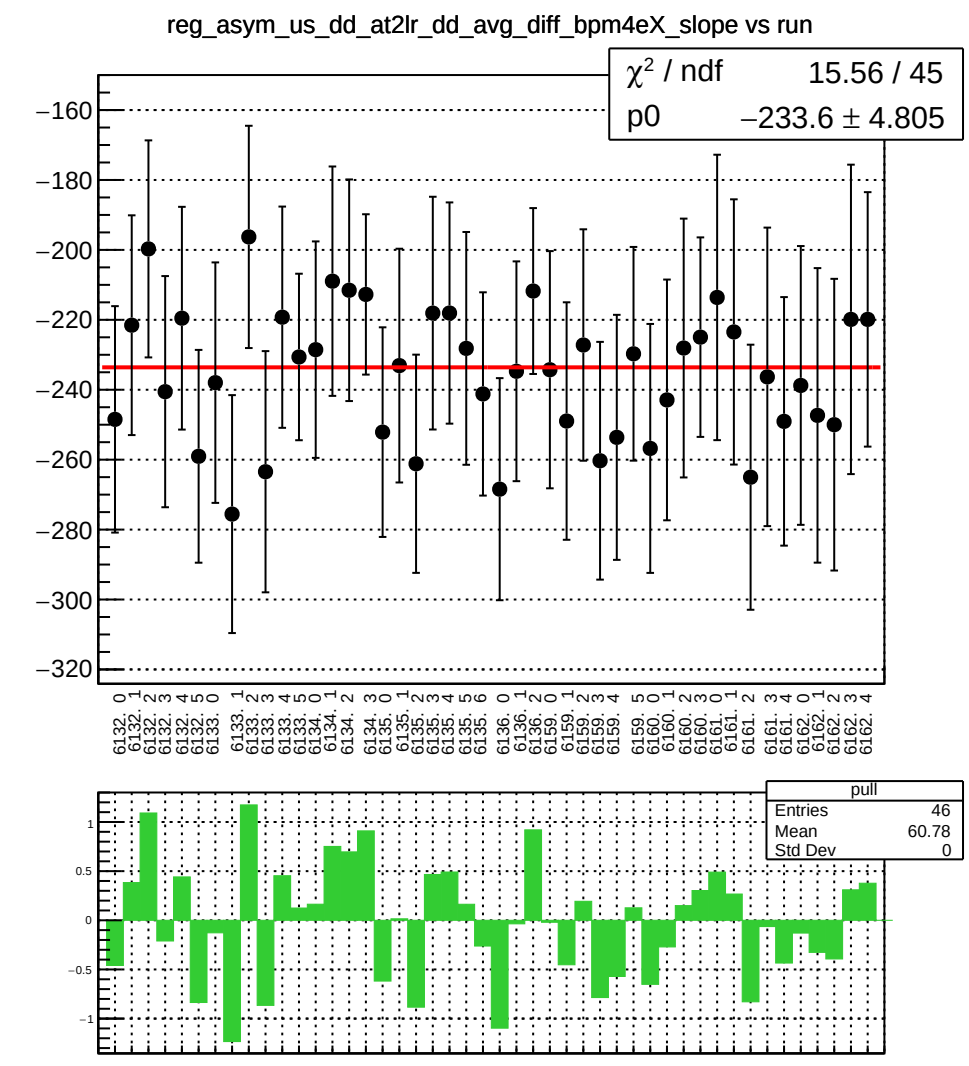

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 23.19 / 45
p0 −4.846 ± 0.247
pull
Entries 46
Mean 295.3
Std Dev 0
pull1D
Entries 46
Mean −0.006942
Std Dev 0.71

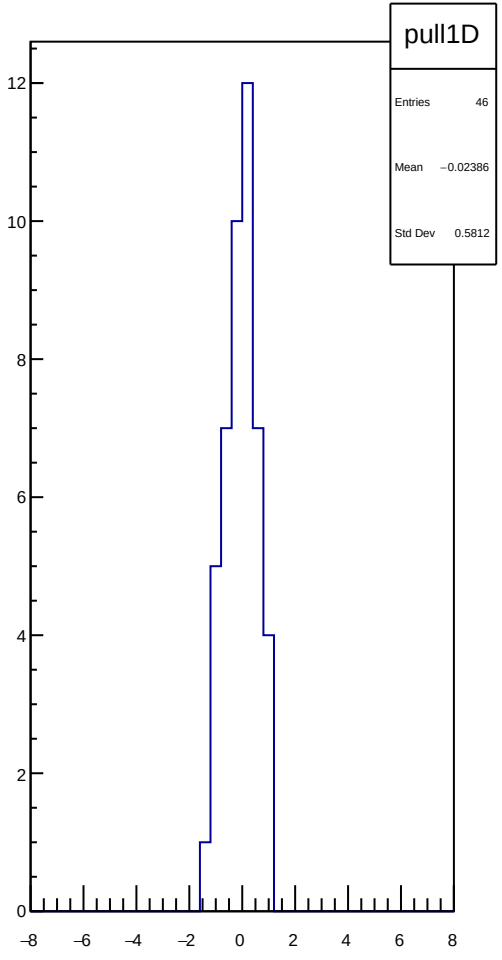

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 15.19 / 45
p0 74.13 ± 3.922
pull
Entries 46
Mean 69.12
Std Dev 0

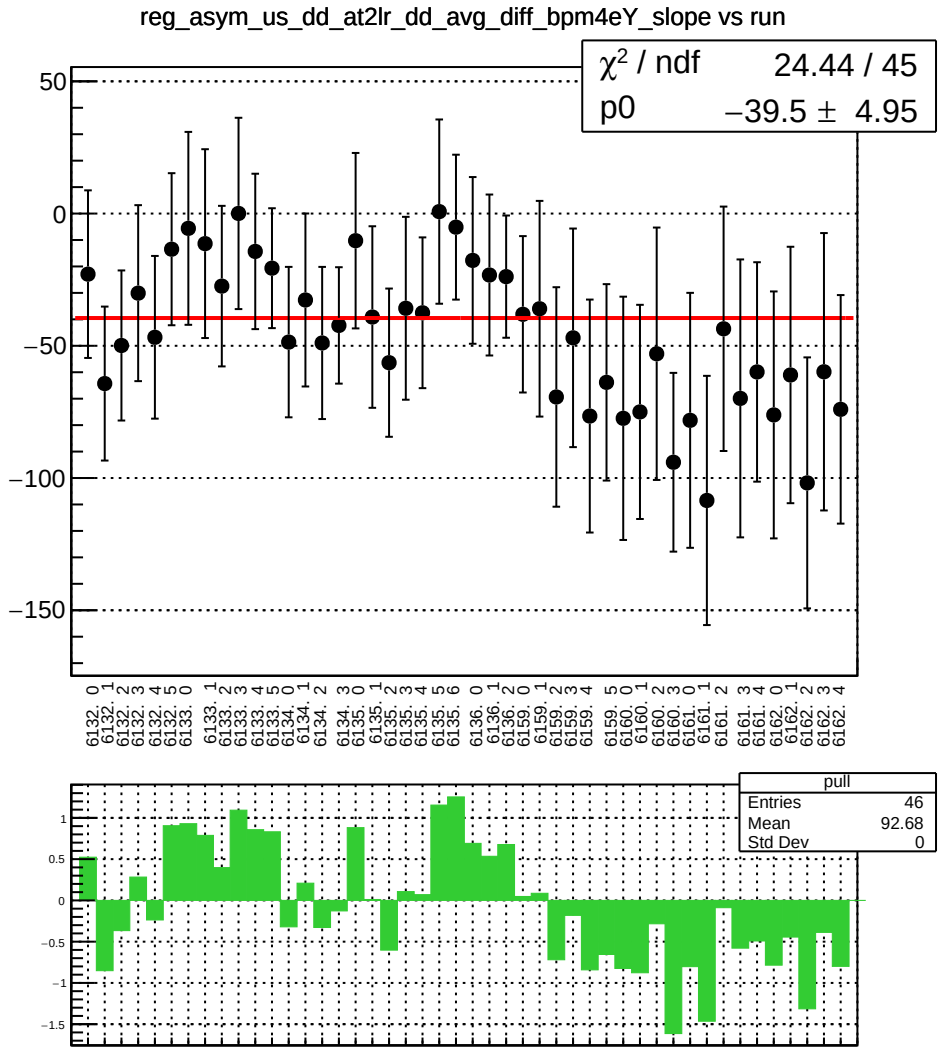

pull1D
Entries 46
Mean 0.02289
Std Dev 0.5742

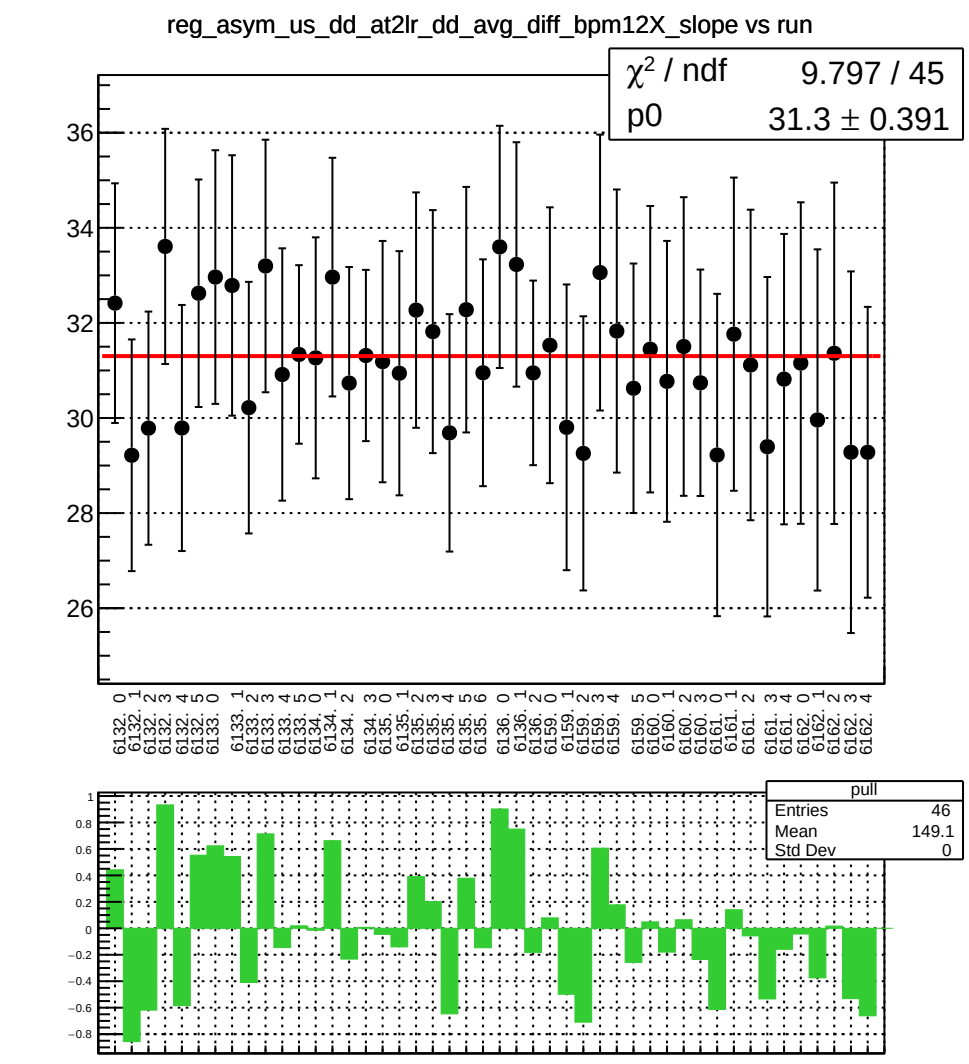

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.26 / 45
p0 15.64 ± 4.628
pull
Entries 46
Mean 97.27
Std Dev 0

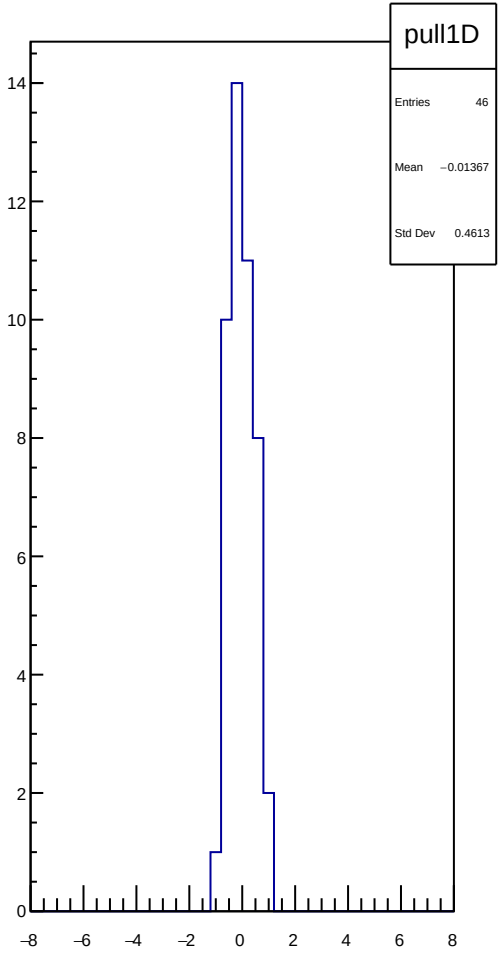

pull1D
Entries 46
Mean 0.0631
Std Dev 0.6607

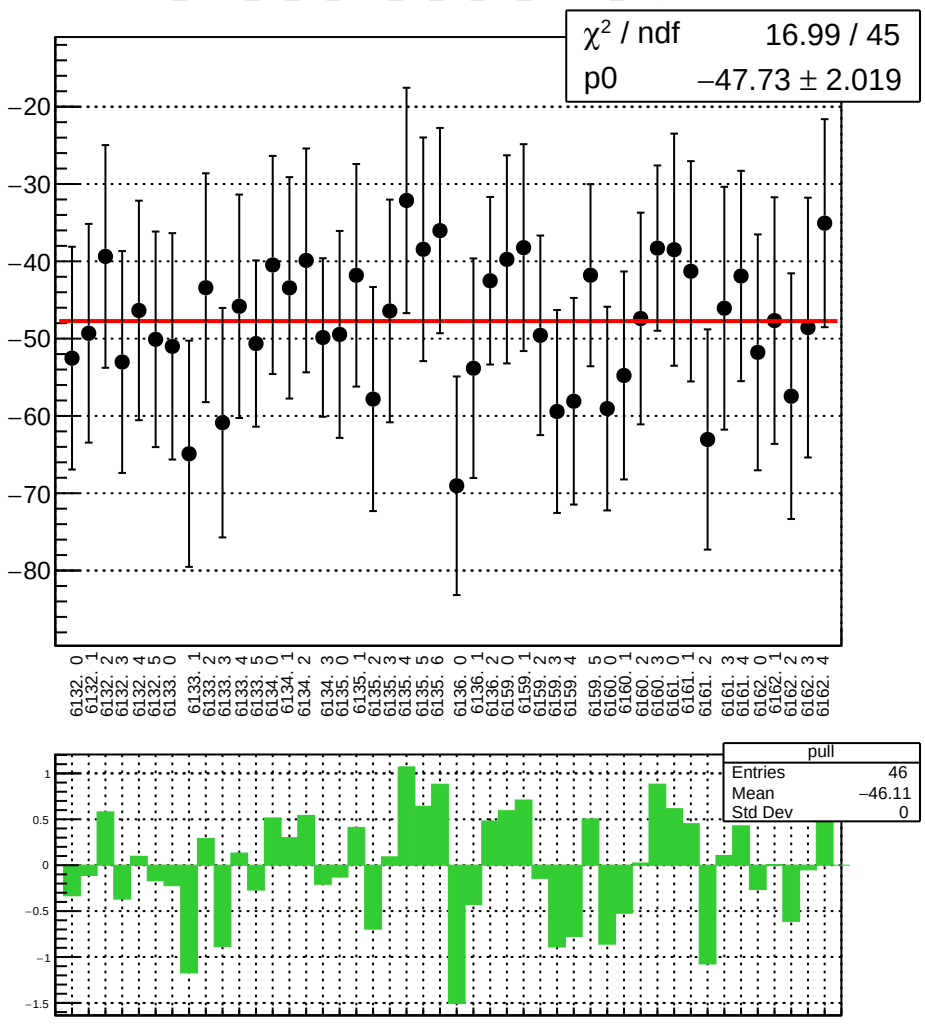

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.56 / 45
p0 −233.6 ± 4.805
pull
Entries 46
Mean 60.78
Std Dev 0

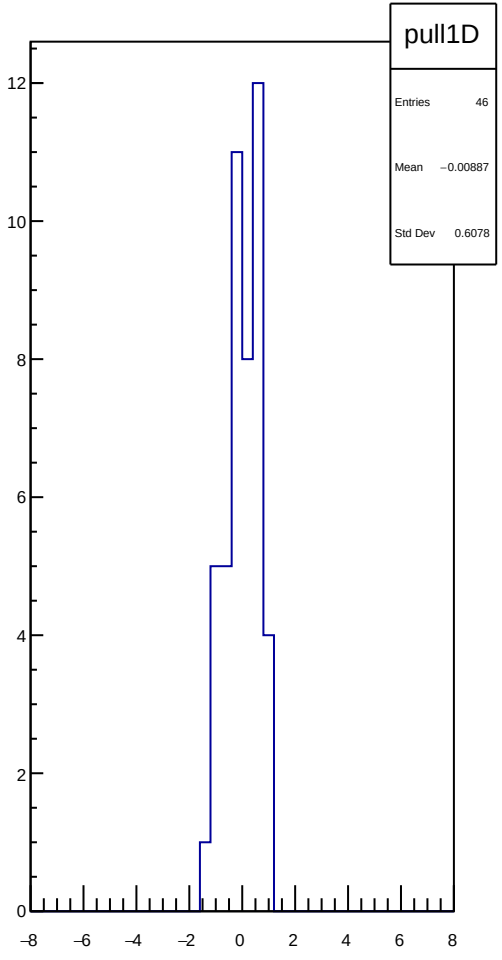

pull1D
Entries 46
Mean −0.02386
Std Dev 0.5812

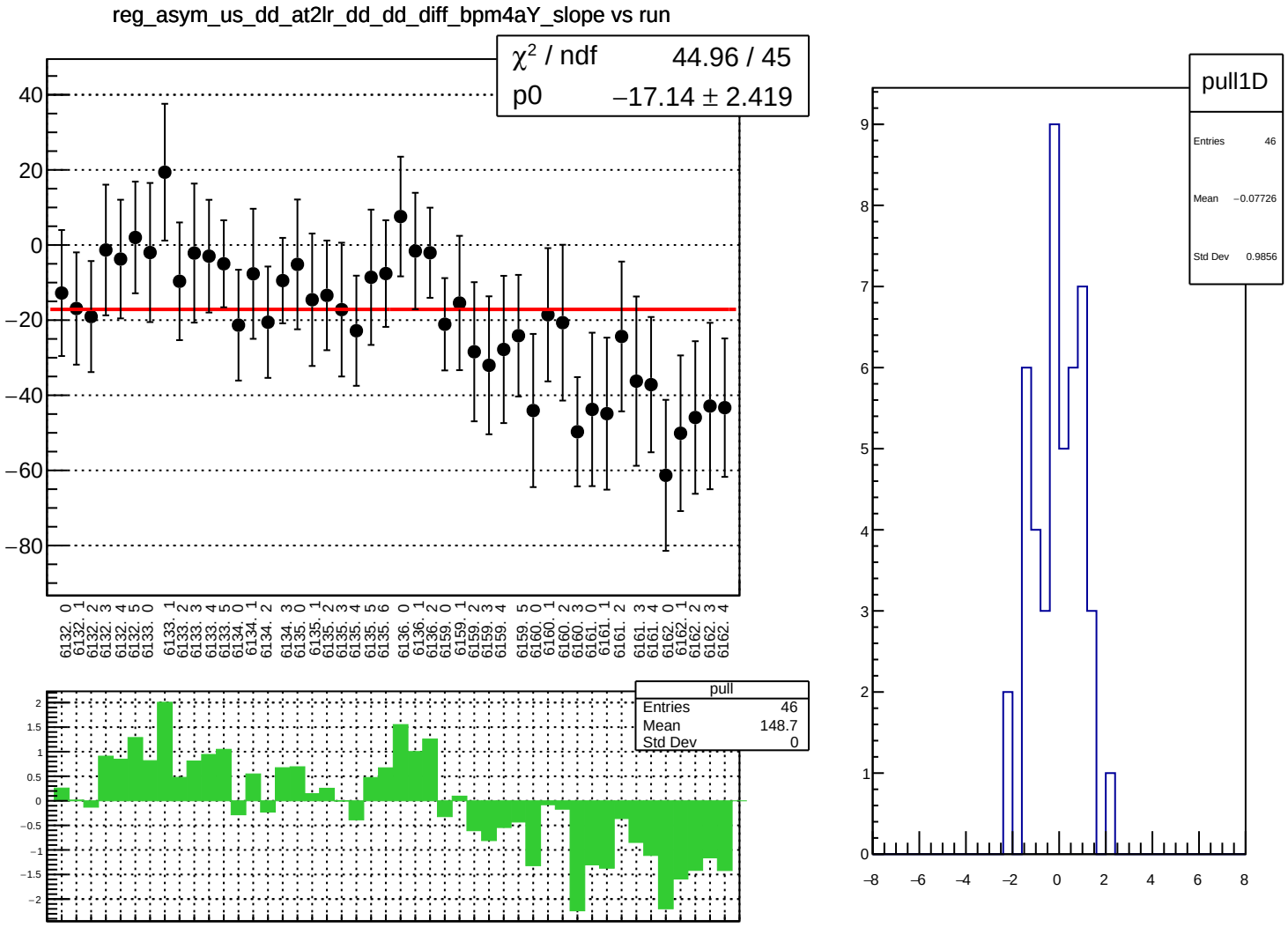

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 24.44 / 45
p0 −39.5 ± 4.95
50
0
−50
−100
−150
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 92.68
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.07932
Std Dev 0.7245
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

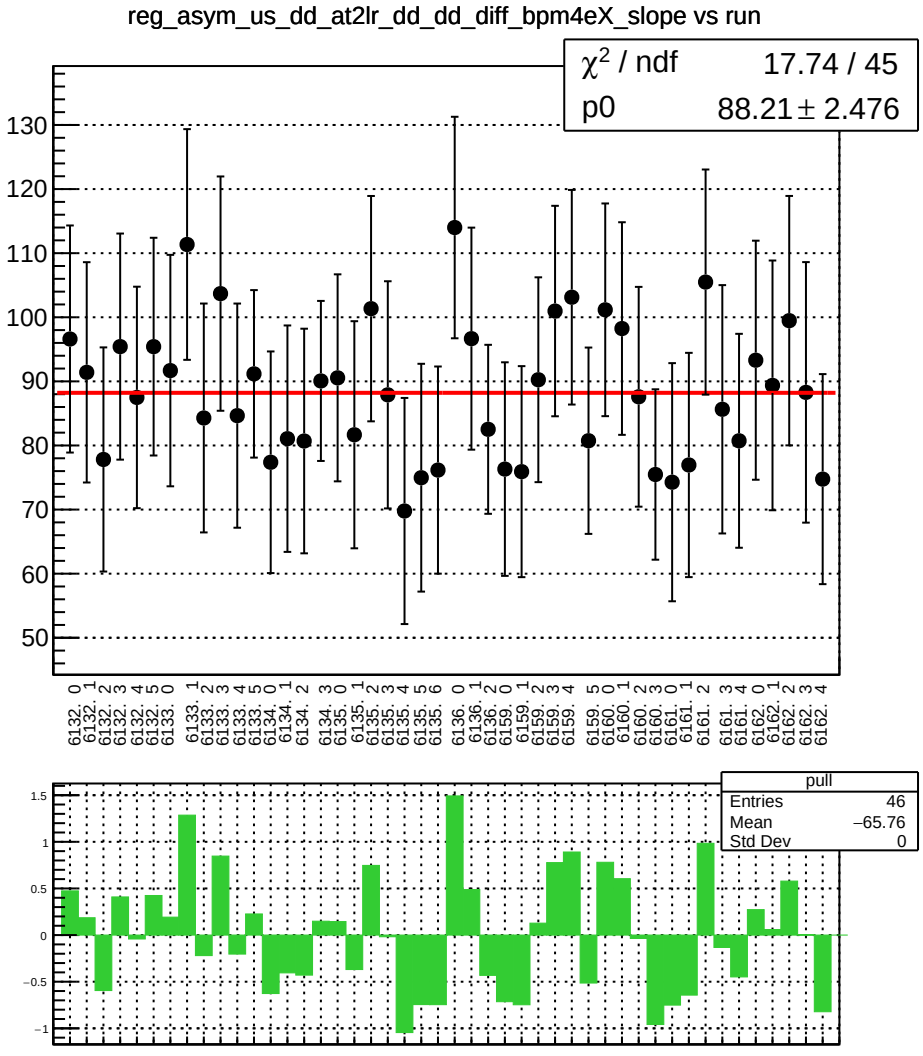

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 9.797 / 45
p0 31.3 ± 0.391
pull
Entries 46
Mean 149.1
Std Dev 0

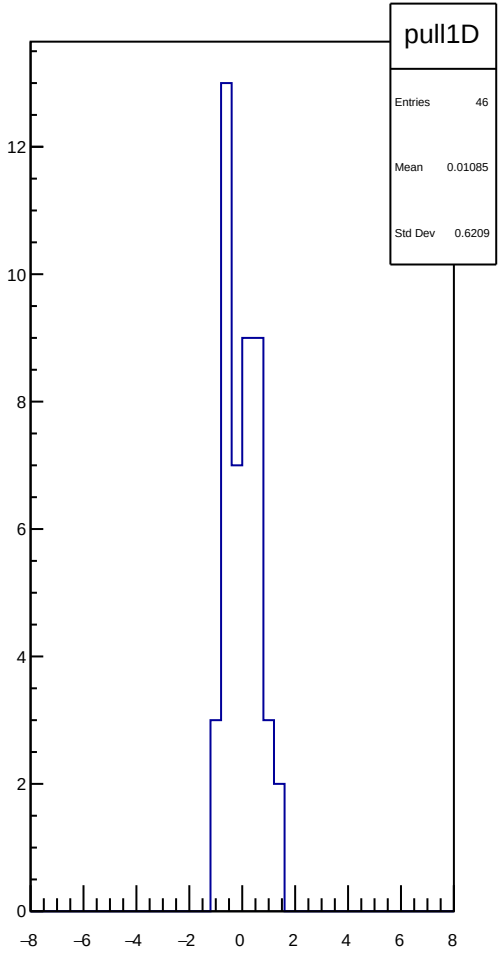

pull1D
Entries 46
Mean −0.01367
Std Dev 0.4613

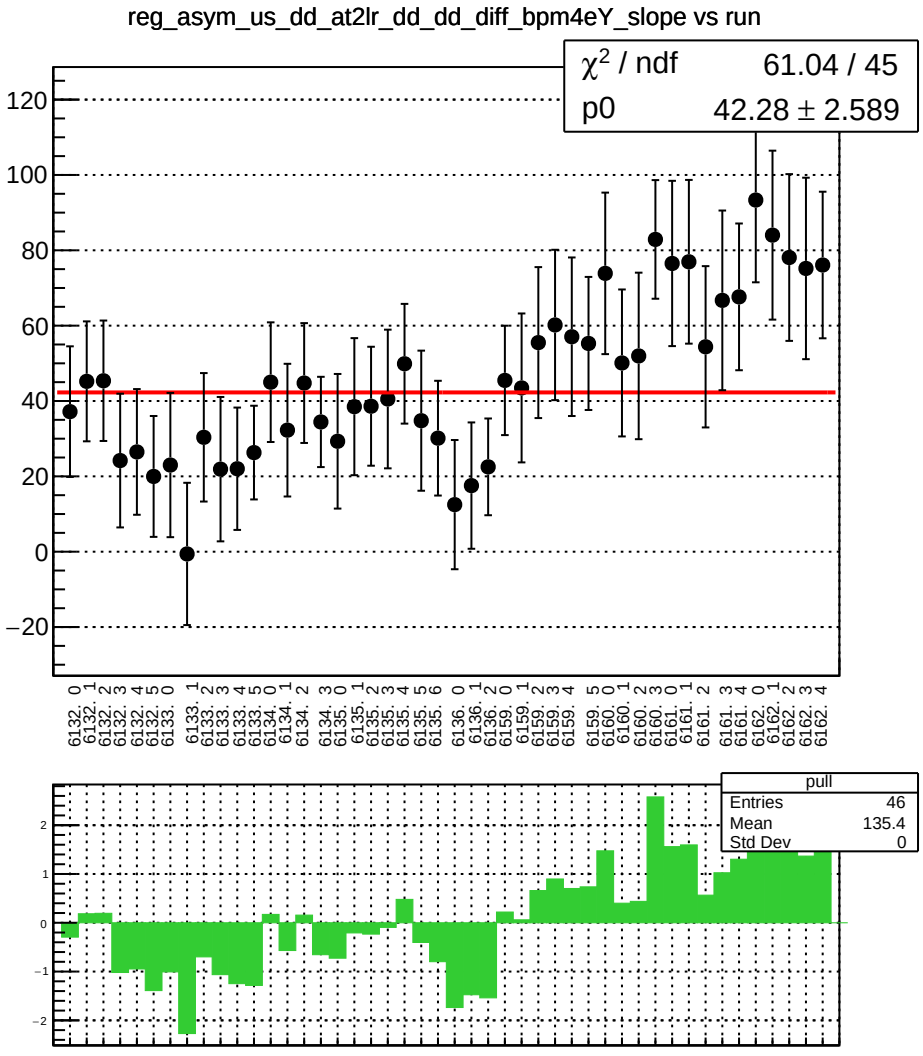

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 16.99 / 45
p0 −47.73 ± 2.019
pull
Entries 46
Mean −46.11
Std Dev 0

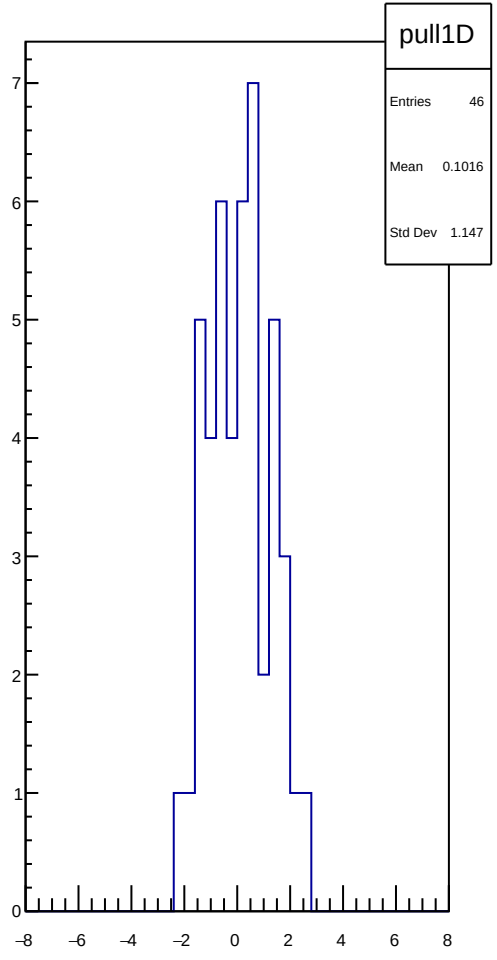

pull1D
Entries 46
Mean −0.00887
Std Dev 0.6078

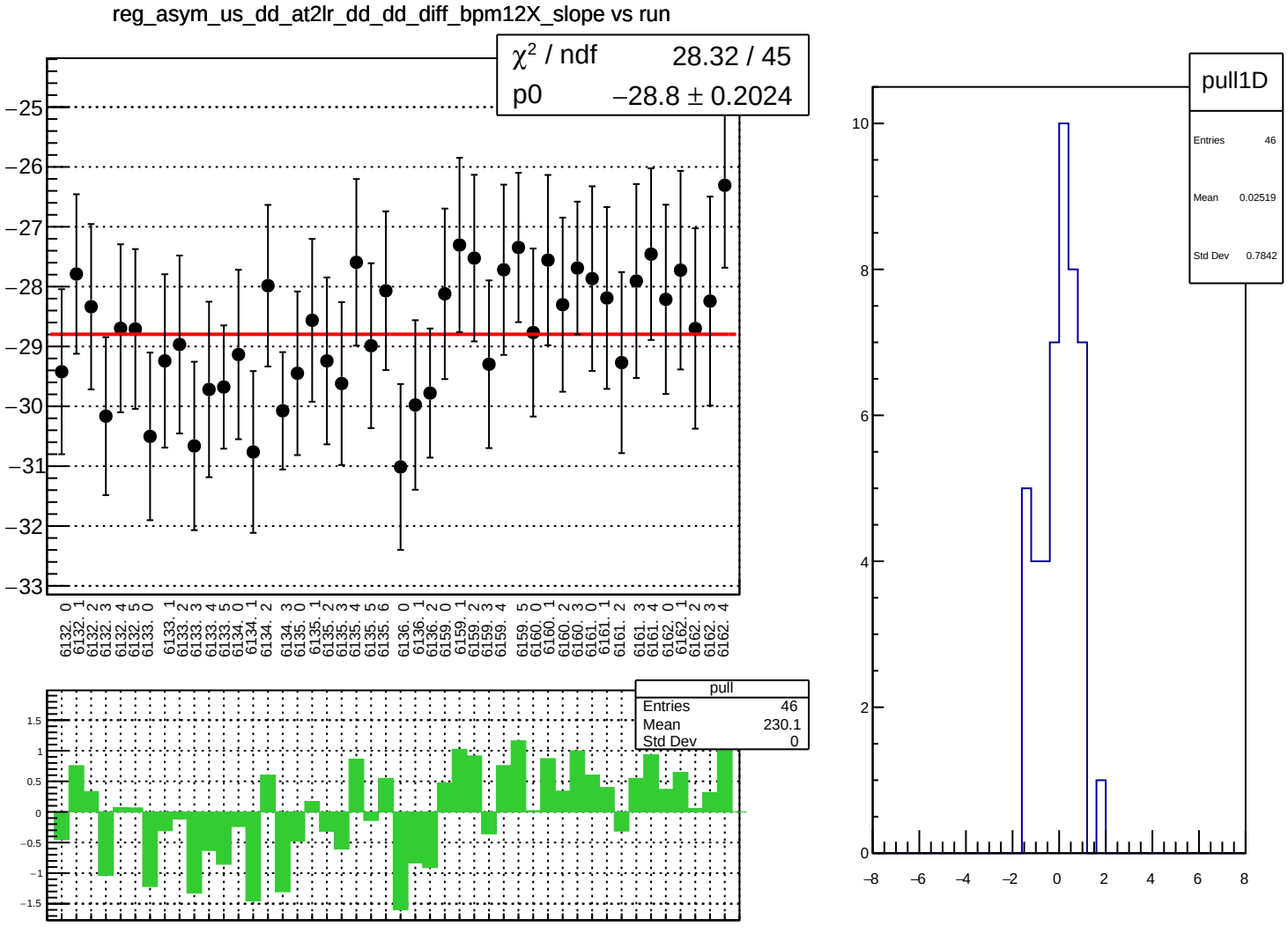

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.96 / 45
p0 −17.14 ± 2.419
pull
Entries 46
Mean 148.7
Std Dev 0
pull1D
Entries 46
Mean −0.07726
Std Dev 0.9856

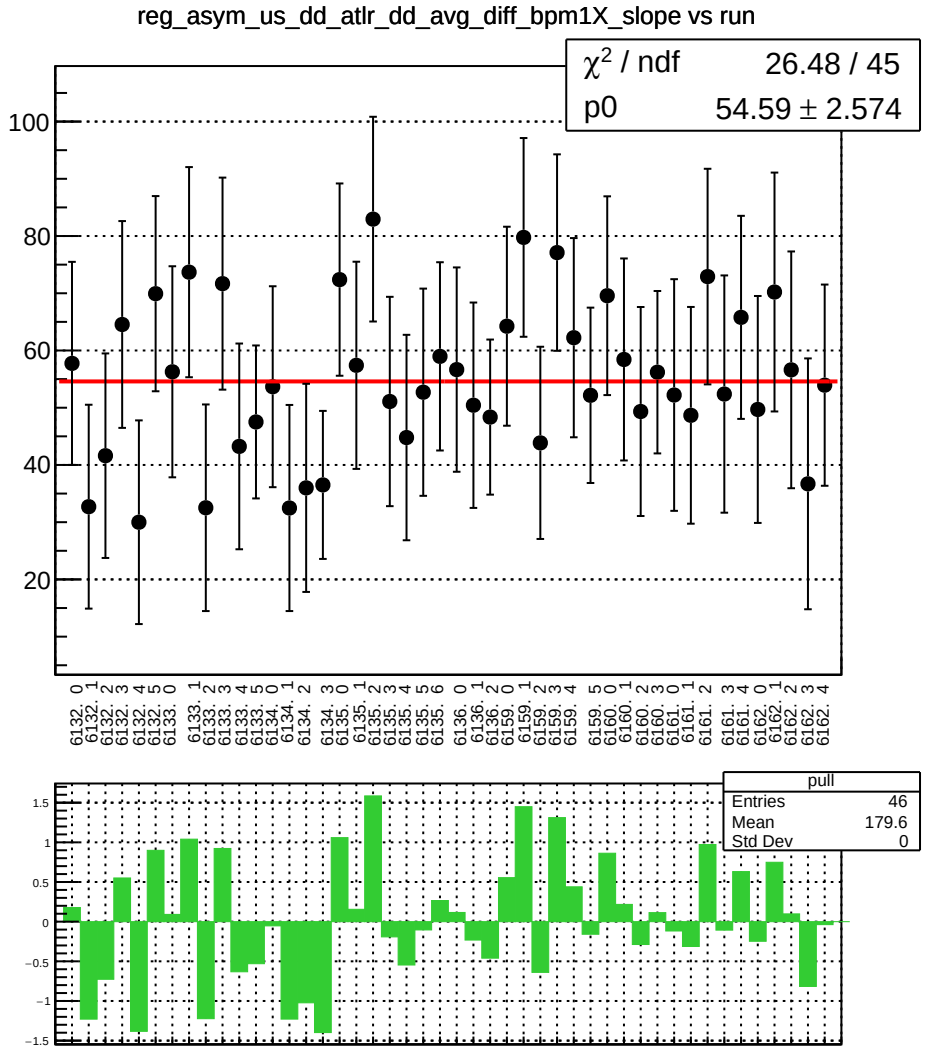

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.74 / 45
p0 88.21 ± 2.476
pull
Entries 46
Mean −65.76
Std Dev 0

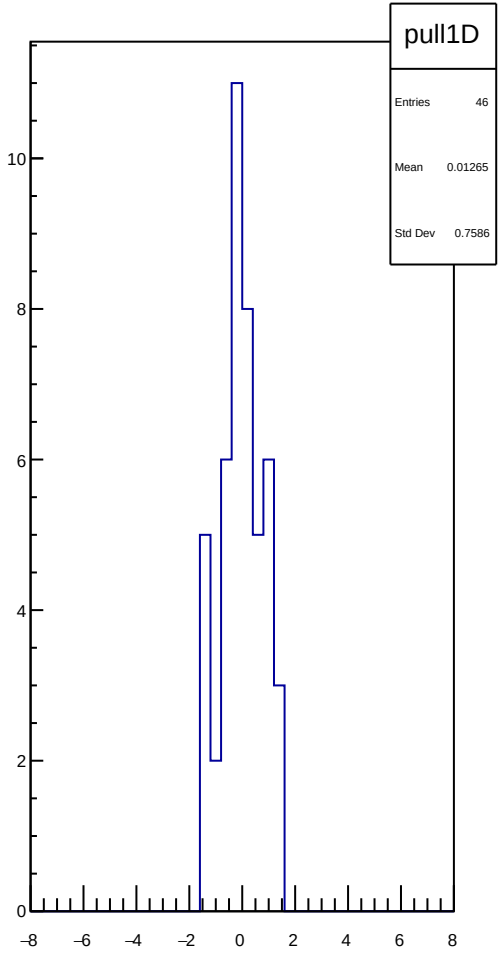

pull1D
Entries 46
Mean 0.01085
Std Dev 0.6209

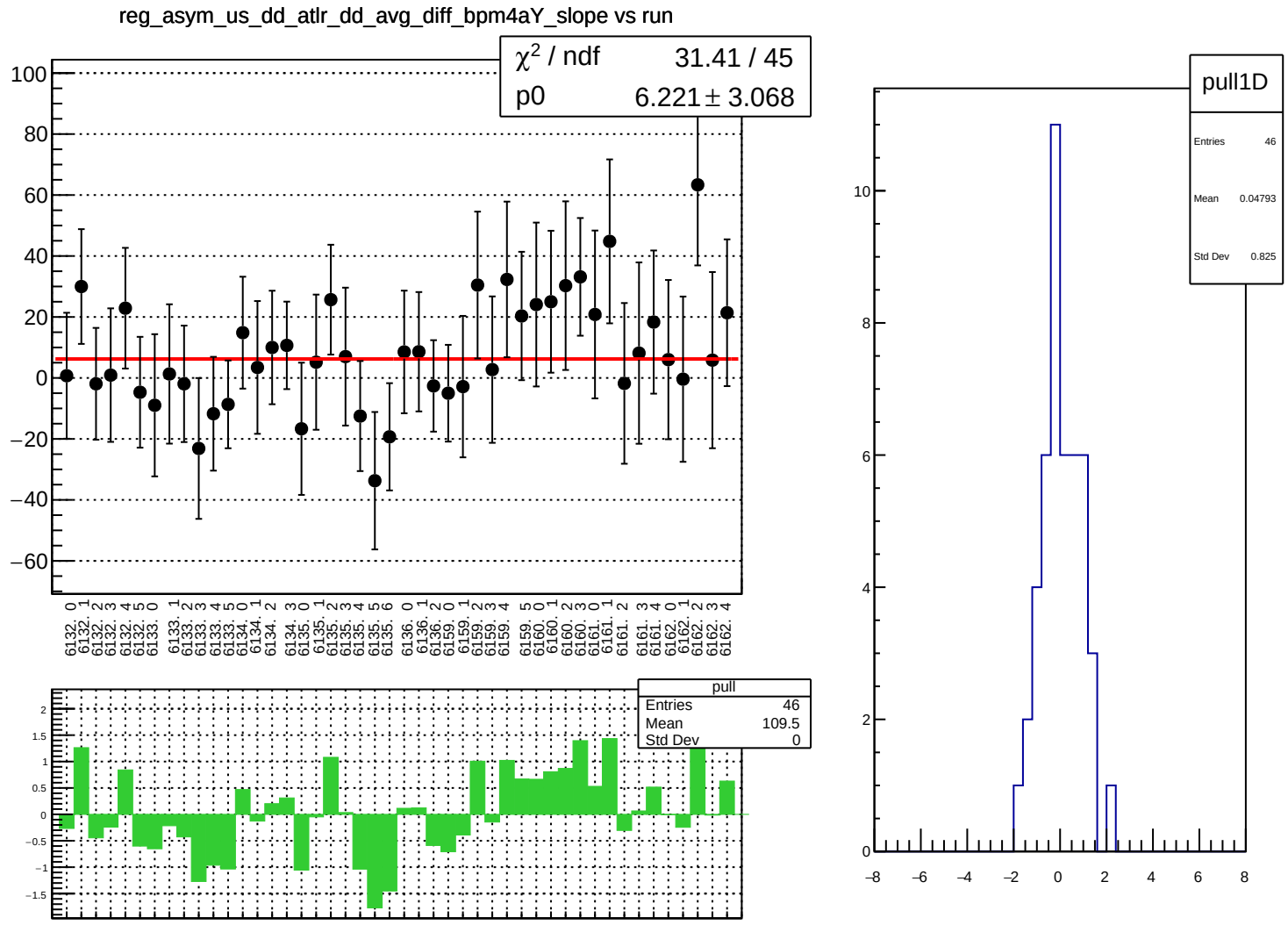

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 61.04 / 45
p0 42.28 ± 2.589
pull
Entries 46
Mean 135.4
Std Dev 0

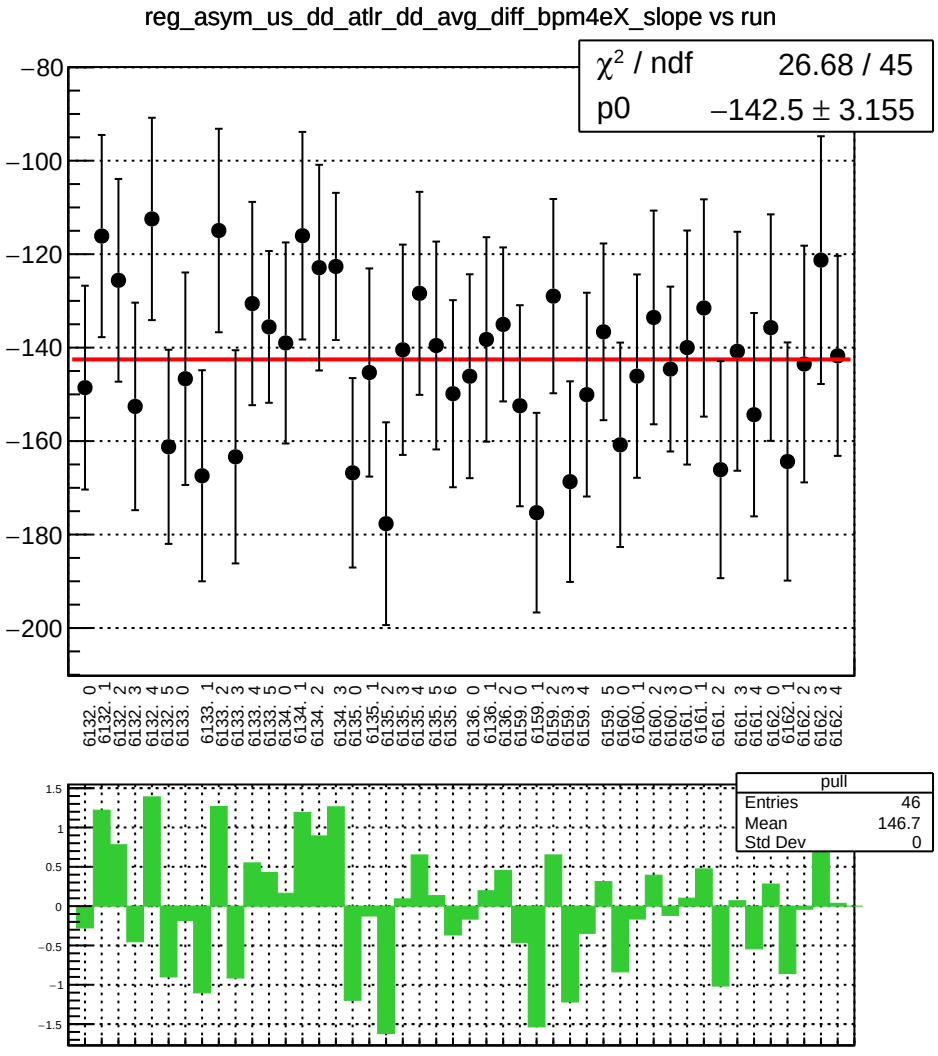

pull1D
Entries 46
Mean 0.1016
Std Dev 1.147

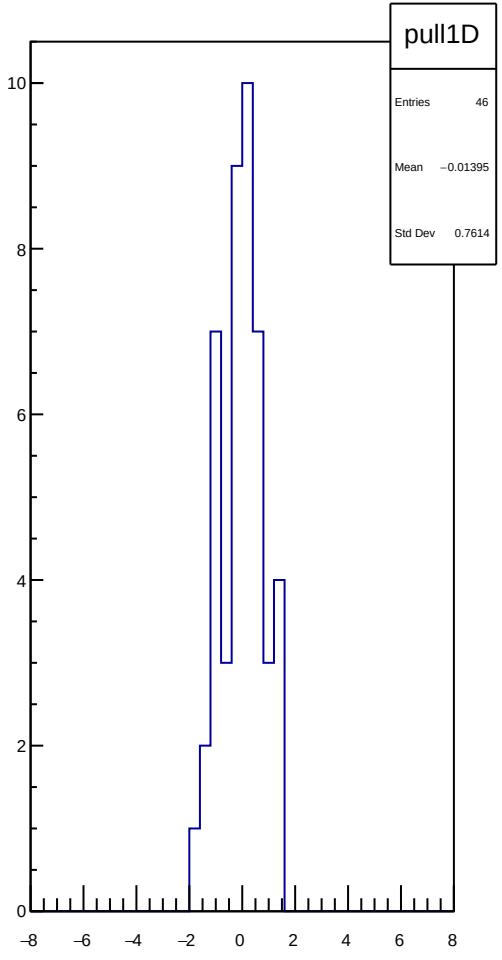

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 28.32 / 45
p0 −28.8 ± 0.2024
pull
Entries 46
Mean 230.1
Std Dev 0
pull1D
Entries 46
Mean 0.02519
Std Dev 0.7842

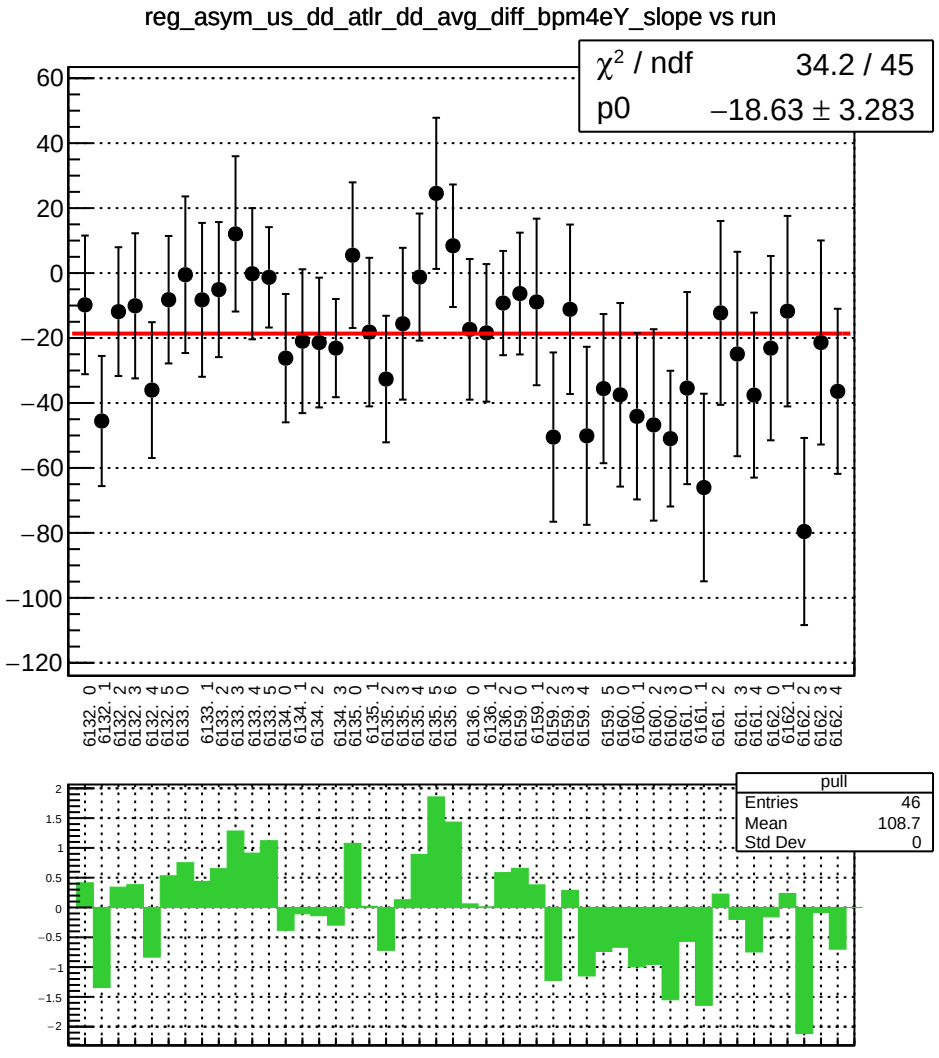

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 26.48 / 45
p0 54.59 ± 2.574
pull
Entries 46
Mean 179.6
Std Dev 0

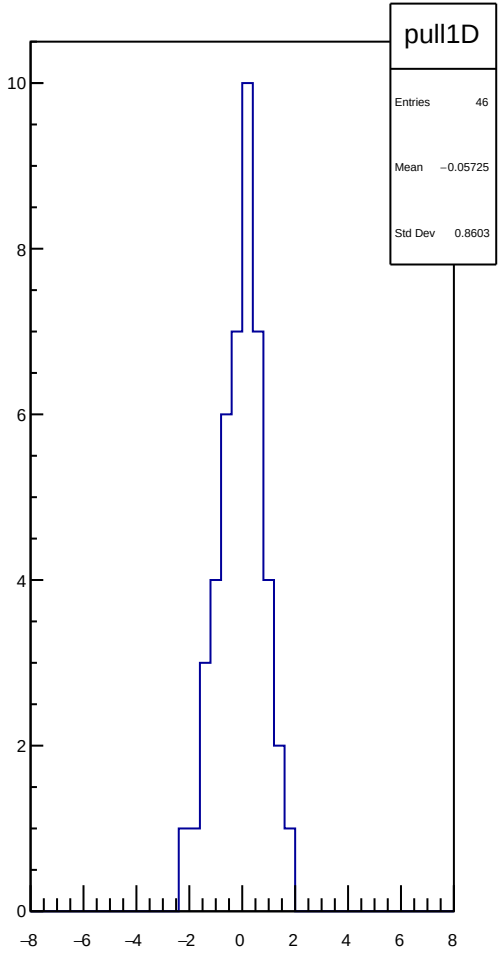

pull1D
Entries 46
Mean 0.01265
Std Dev 0.7586

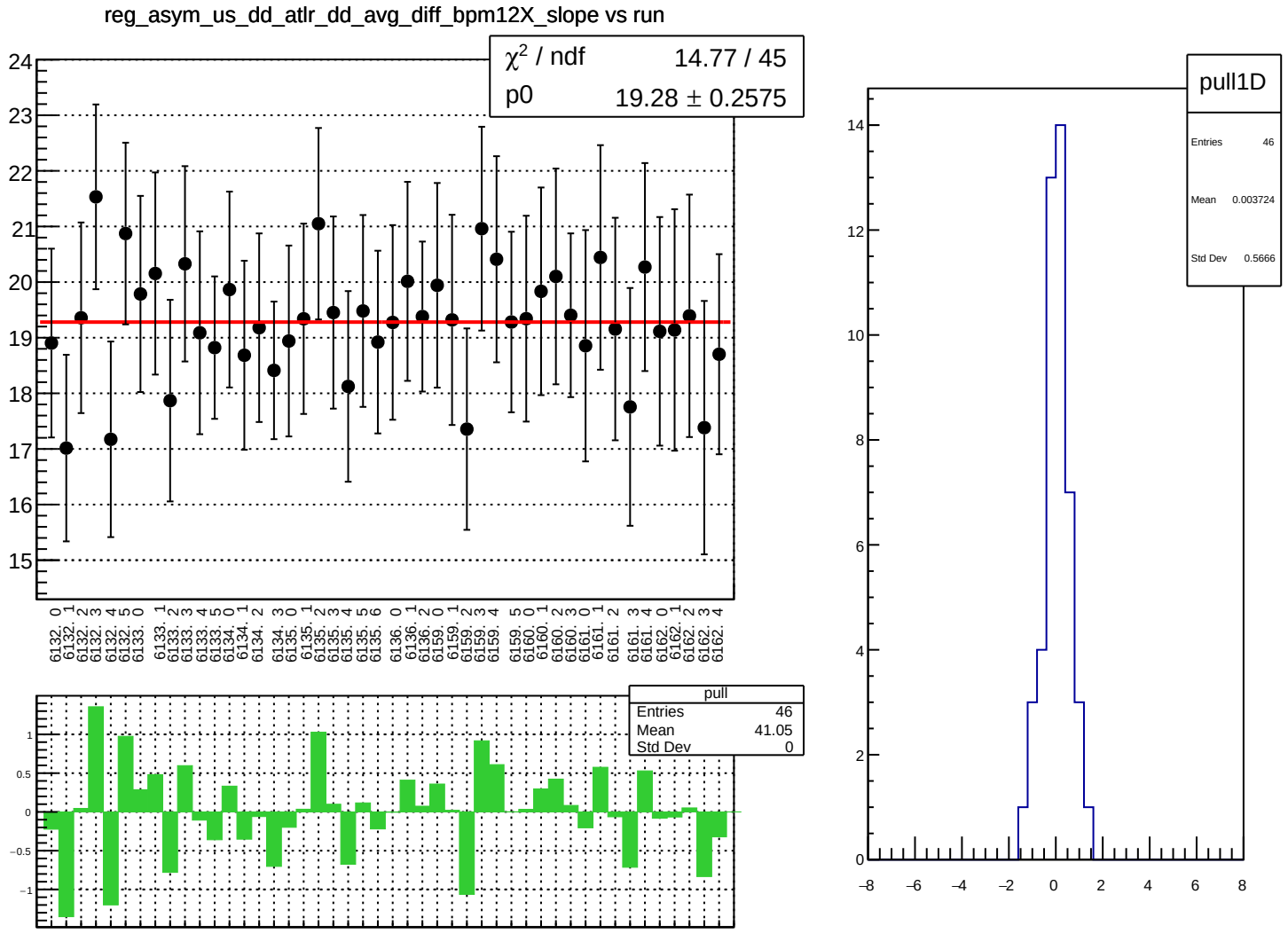

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.41 / 45
p0 6.221 ± 3.068
pull
Entries 46
Mean 109.5
Std Dev 0
pull1D
Entries 46
Mean 0.04793
Std Dev 0.825

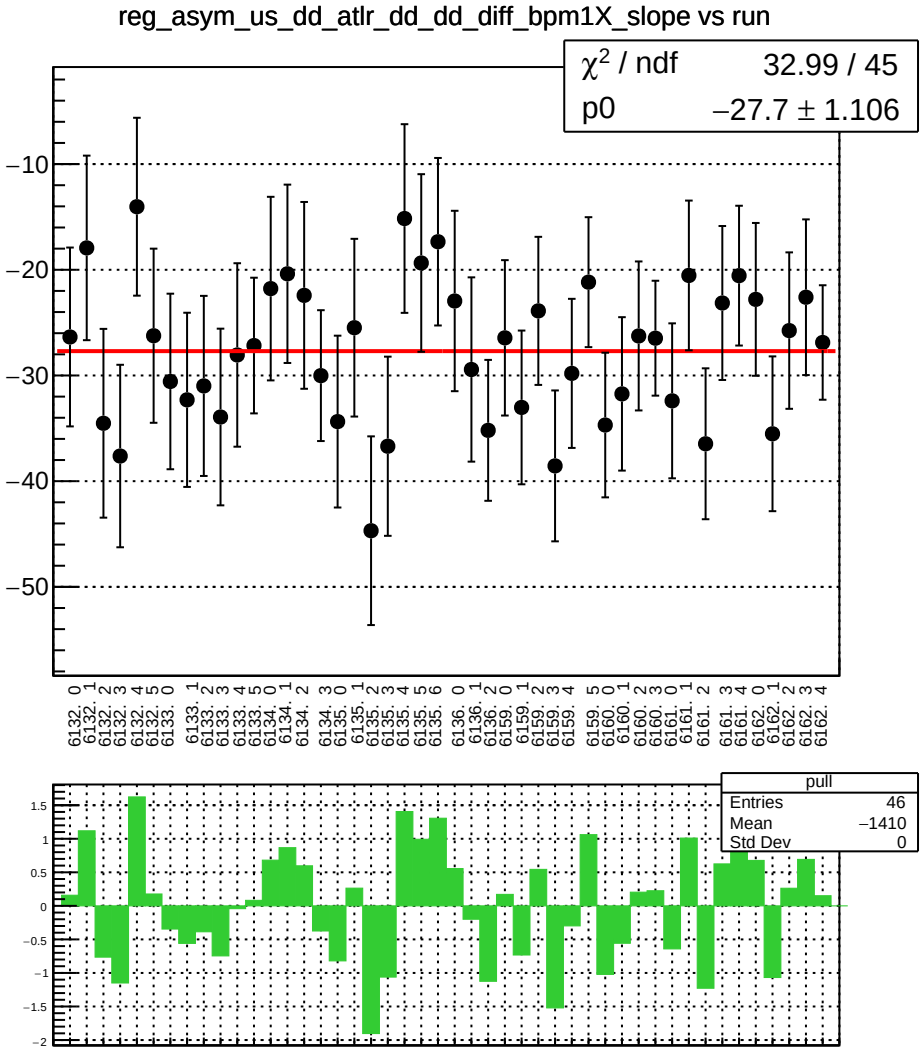

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.68 / 45
p0 −142.5 ± 3.155
pull
Entries 46
Mean 146.7
Std Dev 0

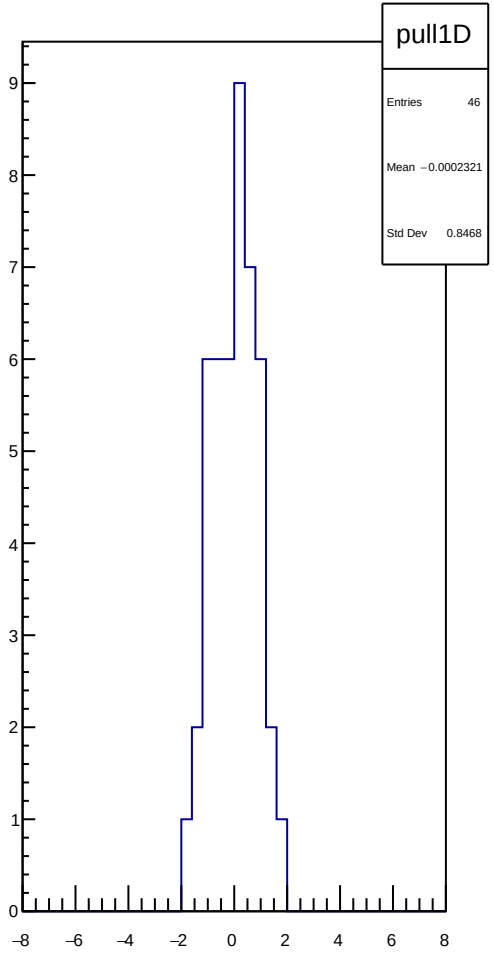

pull1D
Entries 46
Mean −0.01395
Std Dev 0.7614

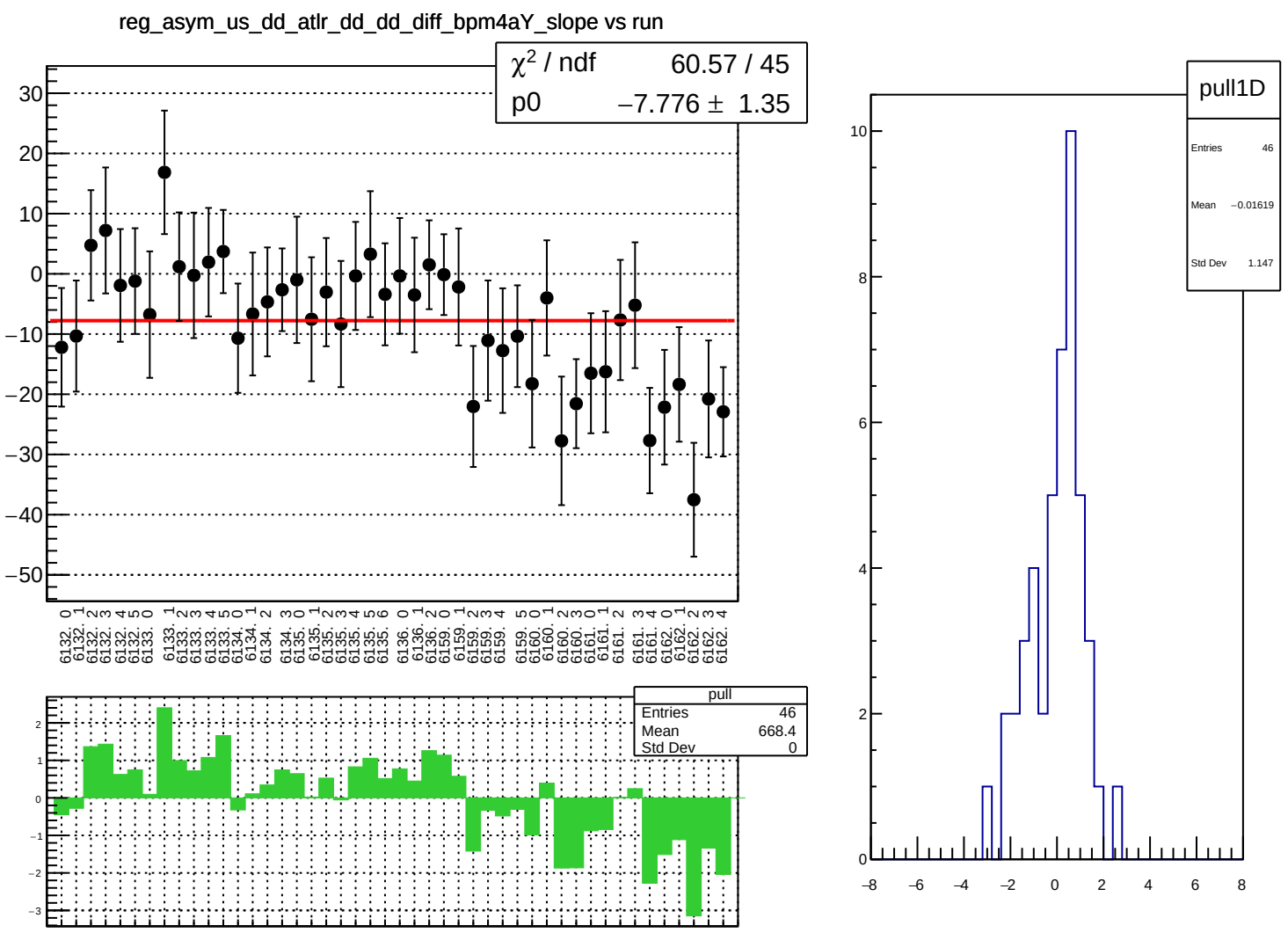

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 34.2 / 45
p0 −18.63 ± 3.283
pull
Entries 46
Mean 108.7
Std Dev 0

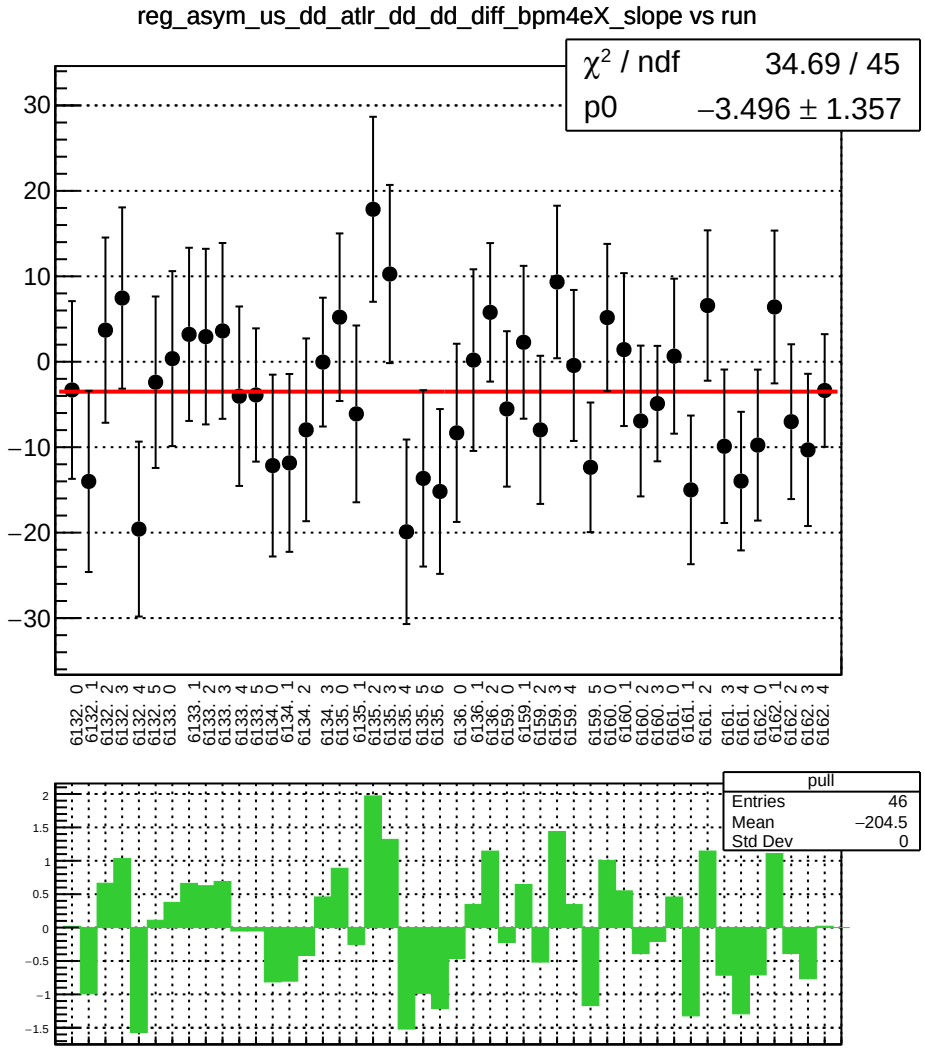

pull1D
Entries 46
Mean −0.05725
Std Dev 0.8603

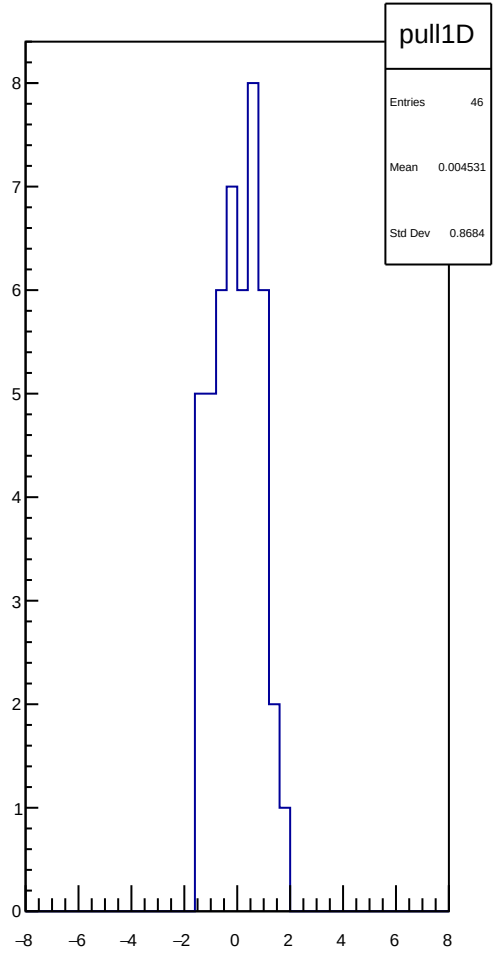

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 14.77 / 45
p0 19.28 ± 0.2575
pull
Entries 46
Mean 41.05
Std Dev 0
pull1D
Entries 46
Mean 0.003724
Std Dev 0.5666

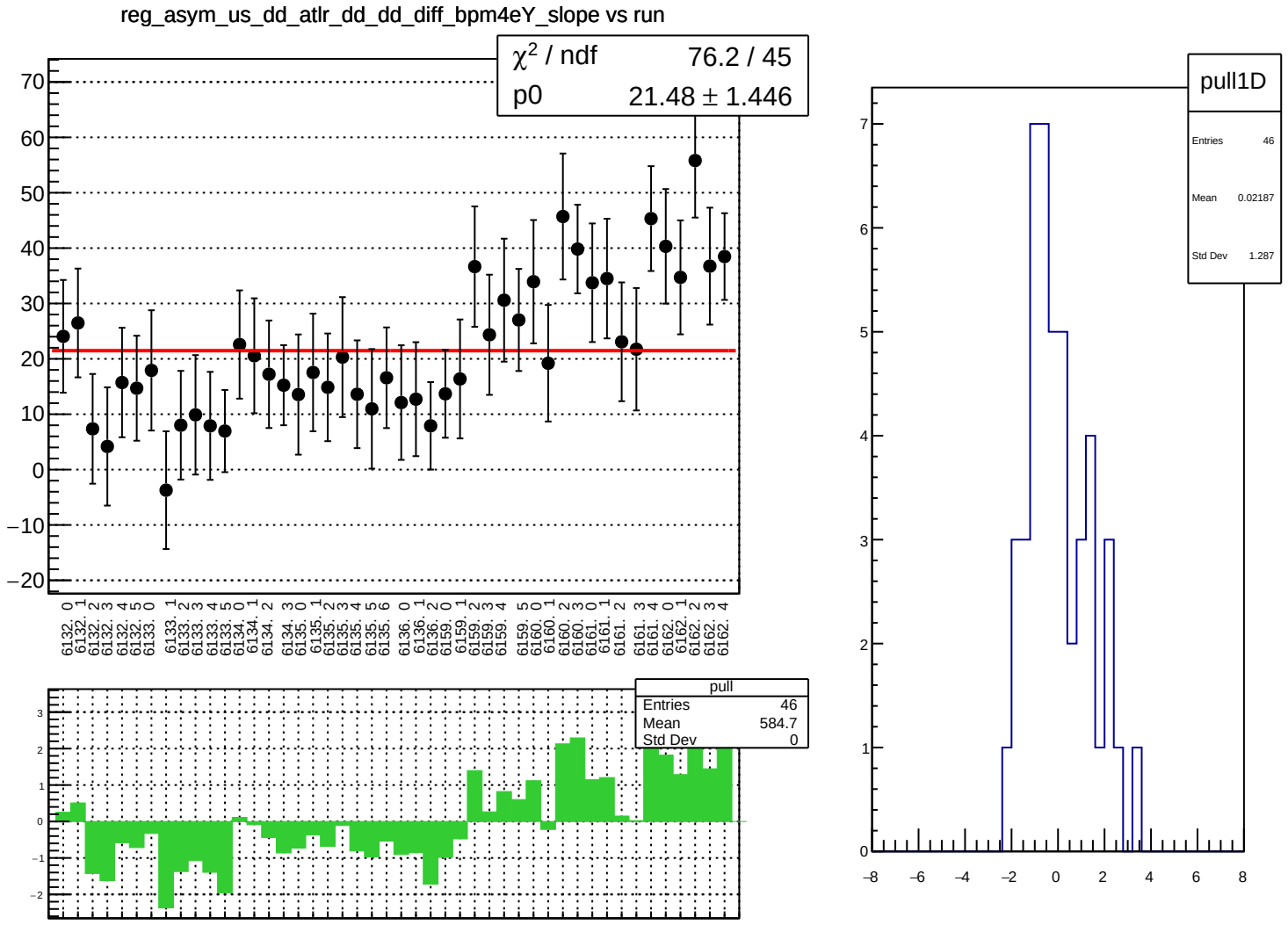

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 32.99 / 45
p0 −27.7 ± 1.106
−10
−20
−30
−40
−50
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean −1410
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

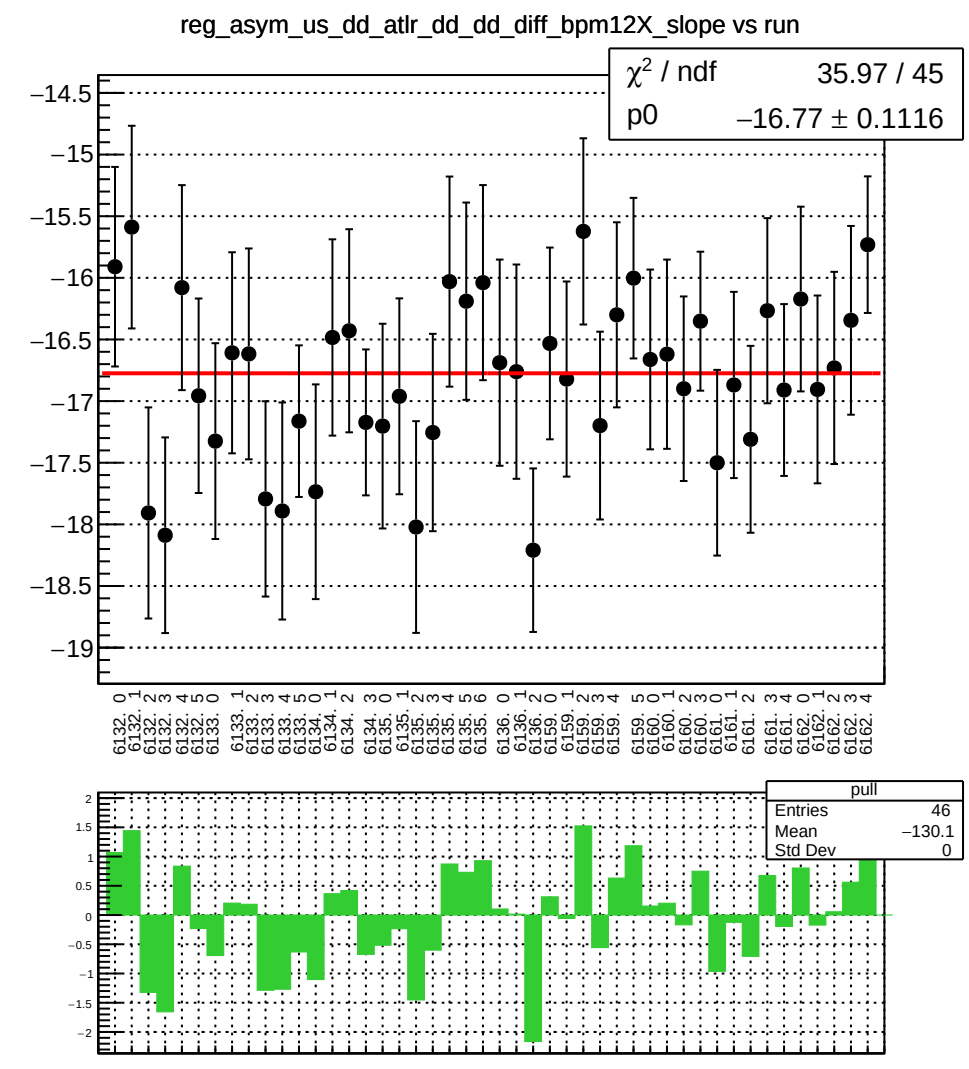

pull1D
Entries 46
Mean −0.0002321
Std Dev 0.8468
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

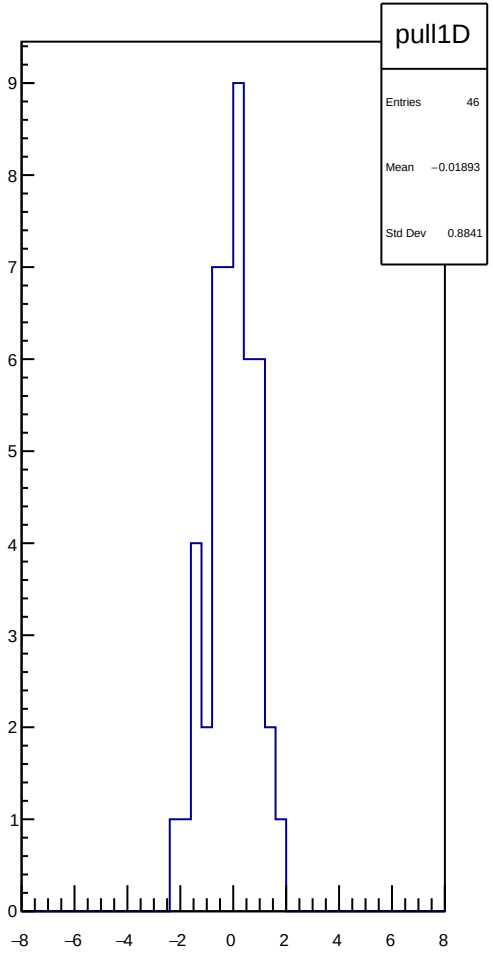

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 60.57 / 45
p0 −7.776 ± 1.35
pull
Entries 46
Mean 668.4
Std Dev 0
pull1D
Entries 46
Mean −0.01619
Std Dev 1.147

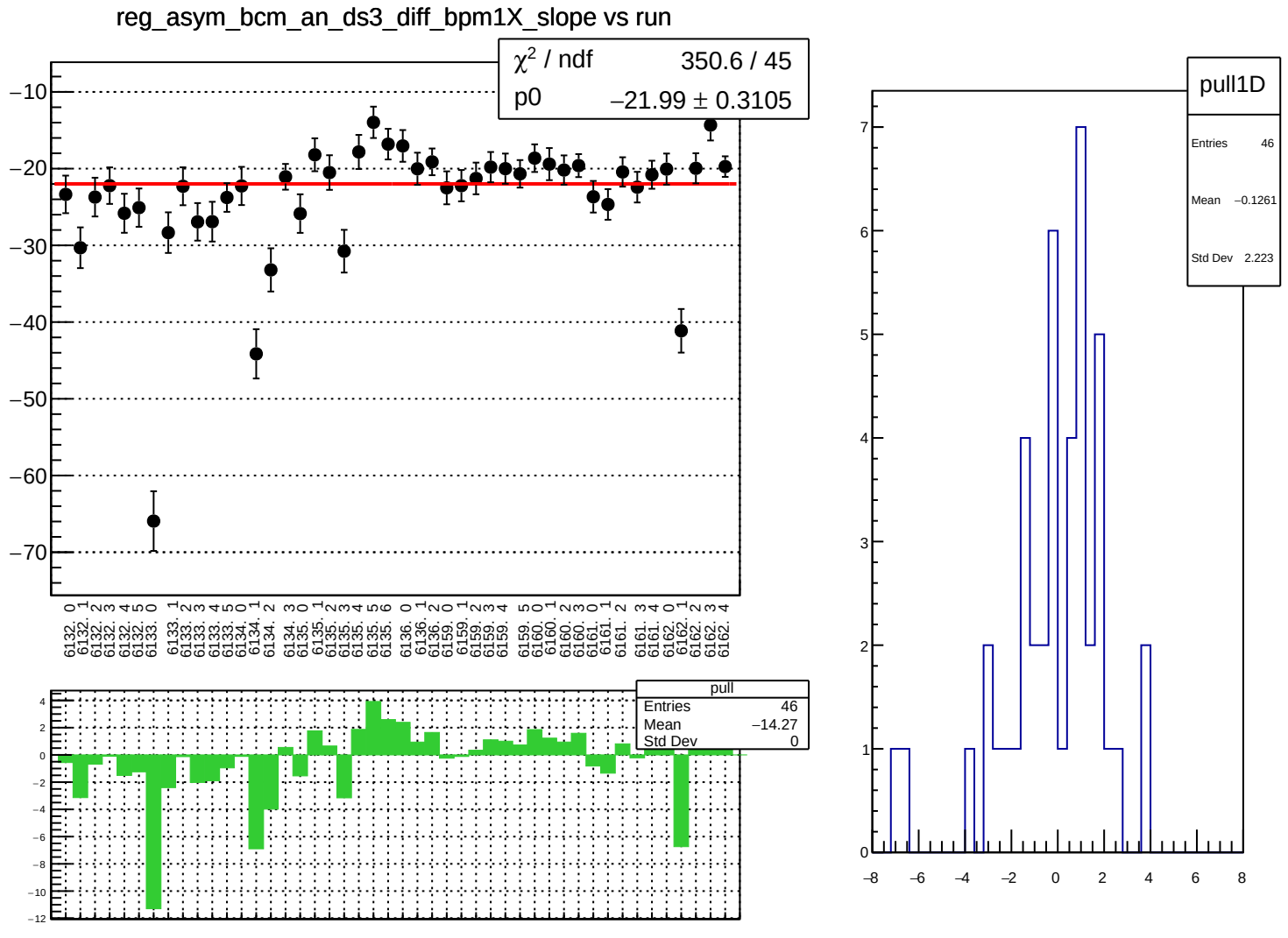

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.69 / 45
p0 −3.496 ± 1.357
pull
Entries 46
Mean −204.5
Std Dev 0

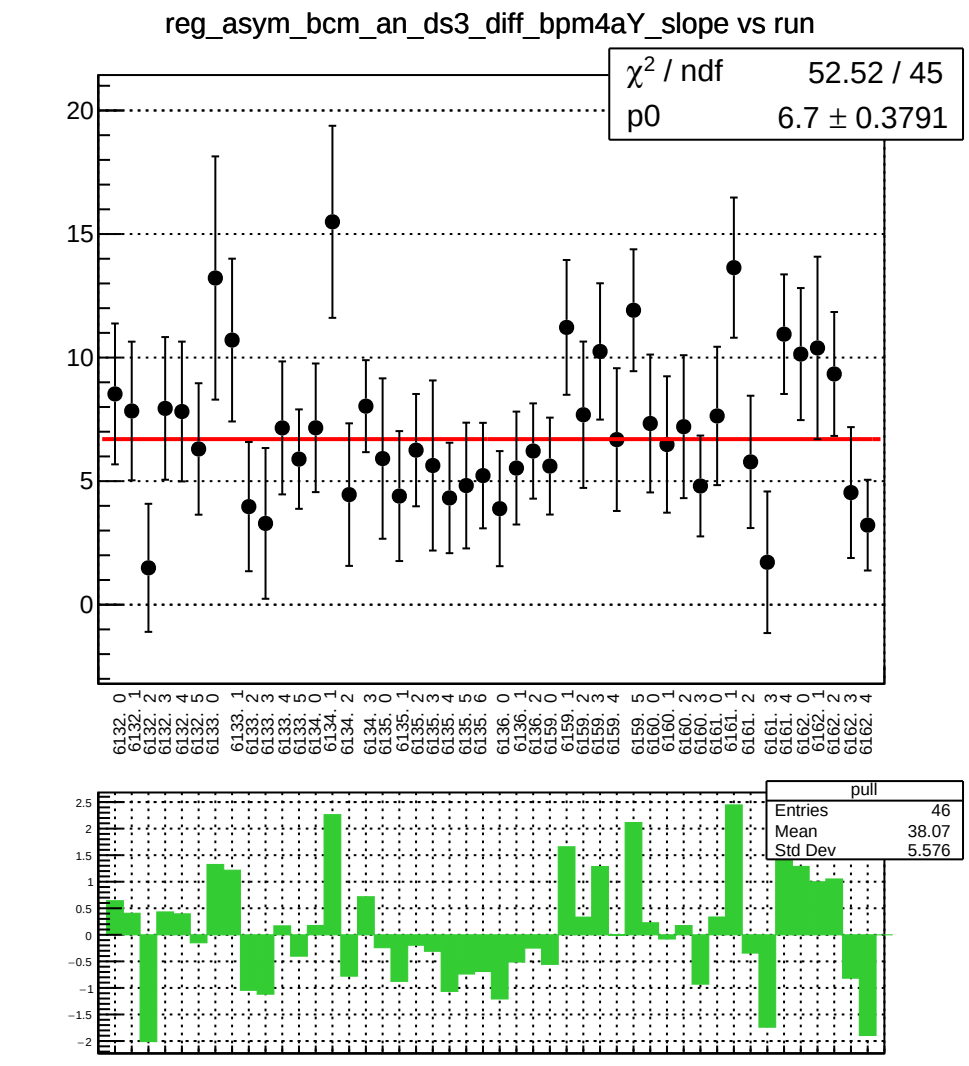

pull1D
Entries 46
Mean 0.004531
Std Dev 0.8684

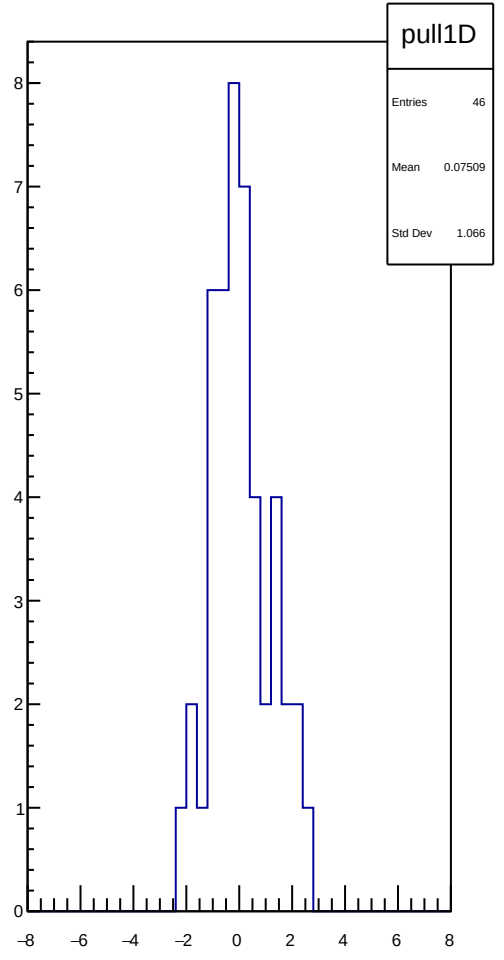

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.2 / 45
p0 21.48 ± 1.446
pull
Entries 46
Mean 584.7
Std Dev 0
pull1D
Entries 46
Mean 0.02187
Std Dev 1.287

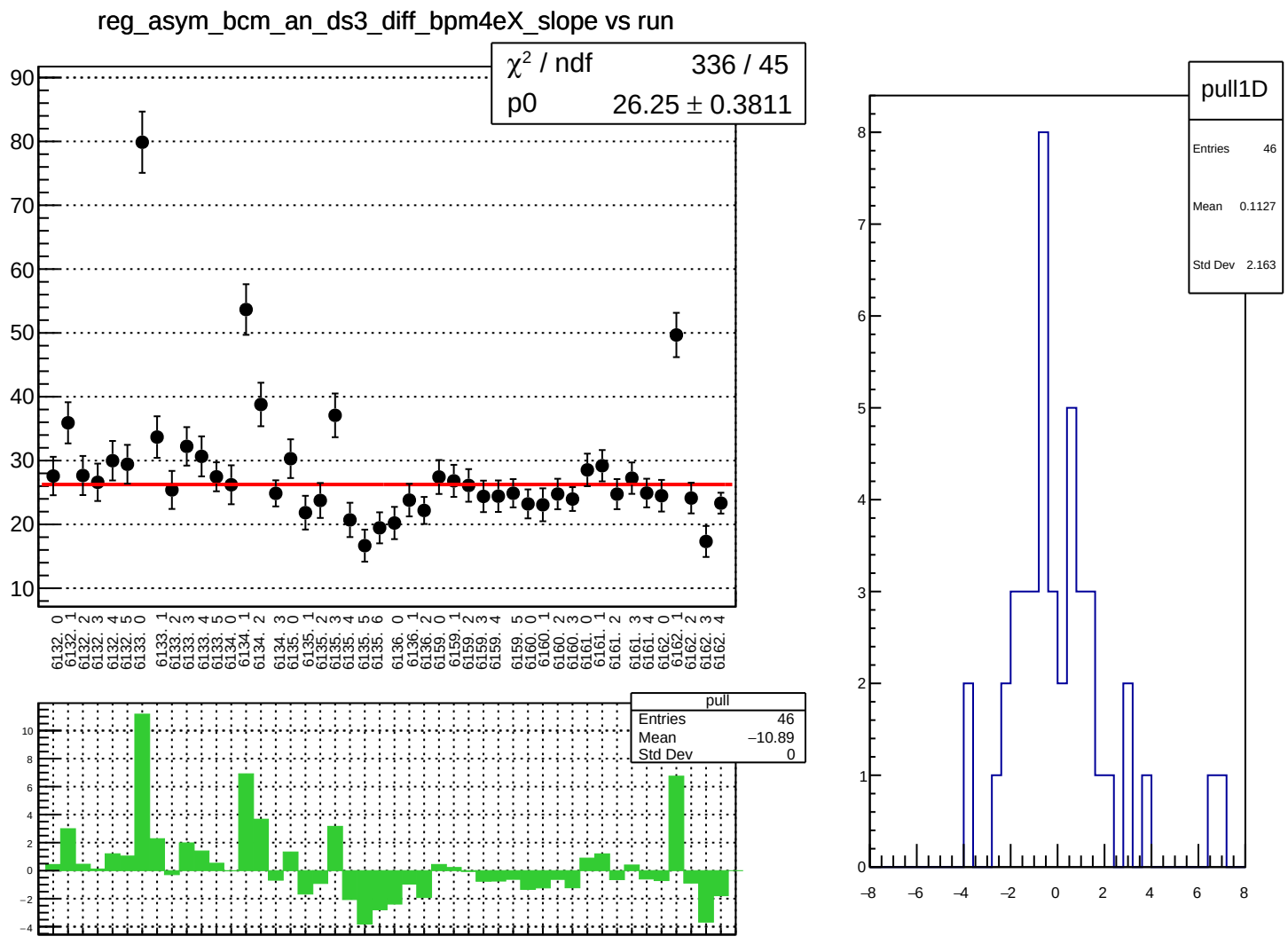

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 35.97 / 45
p0 −16.77 ± 0.1116
pull
Entries 46
Mean −130.1
Std Dev 0

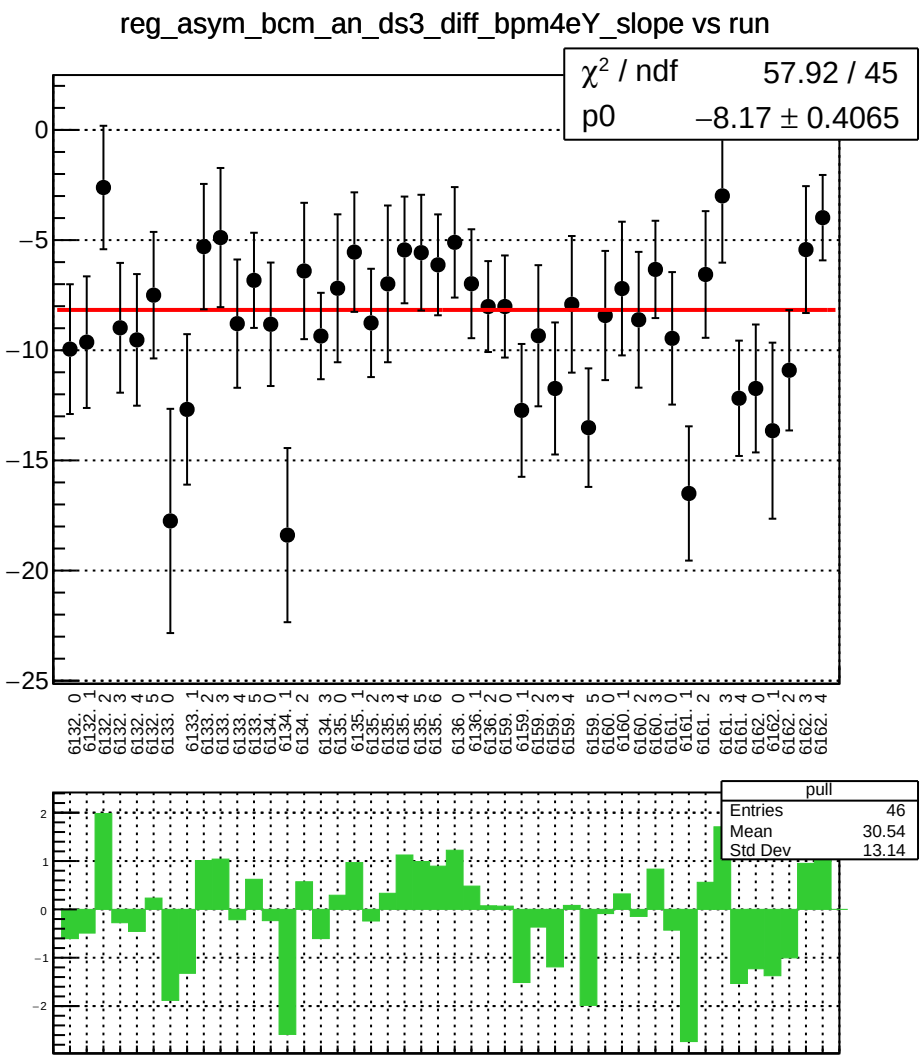

pull1D
Entries 46
Mean −0.01893
Std Dev 0.8841

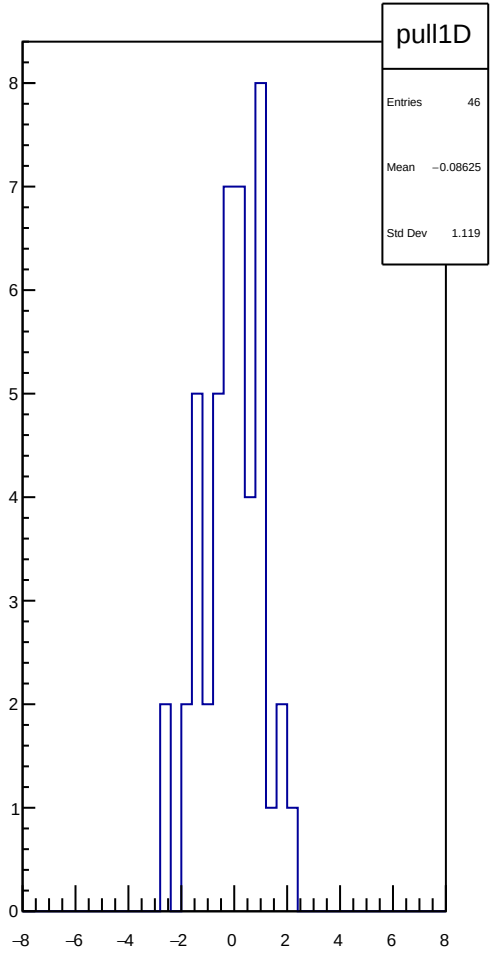

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 350.6 / 45
p0 −21.99 ± 0.3105
pull
Entries 46
Mean −14.27
Std Dev 0
pull1D
Entries 46
Mean −0.1261
Std Dev 2.223

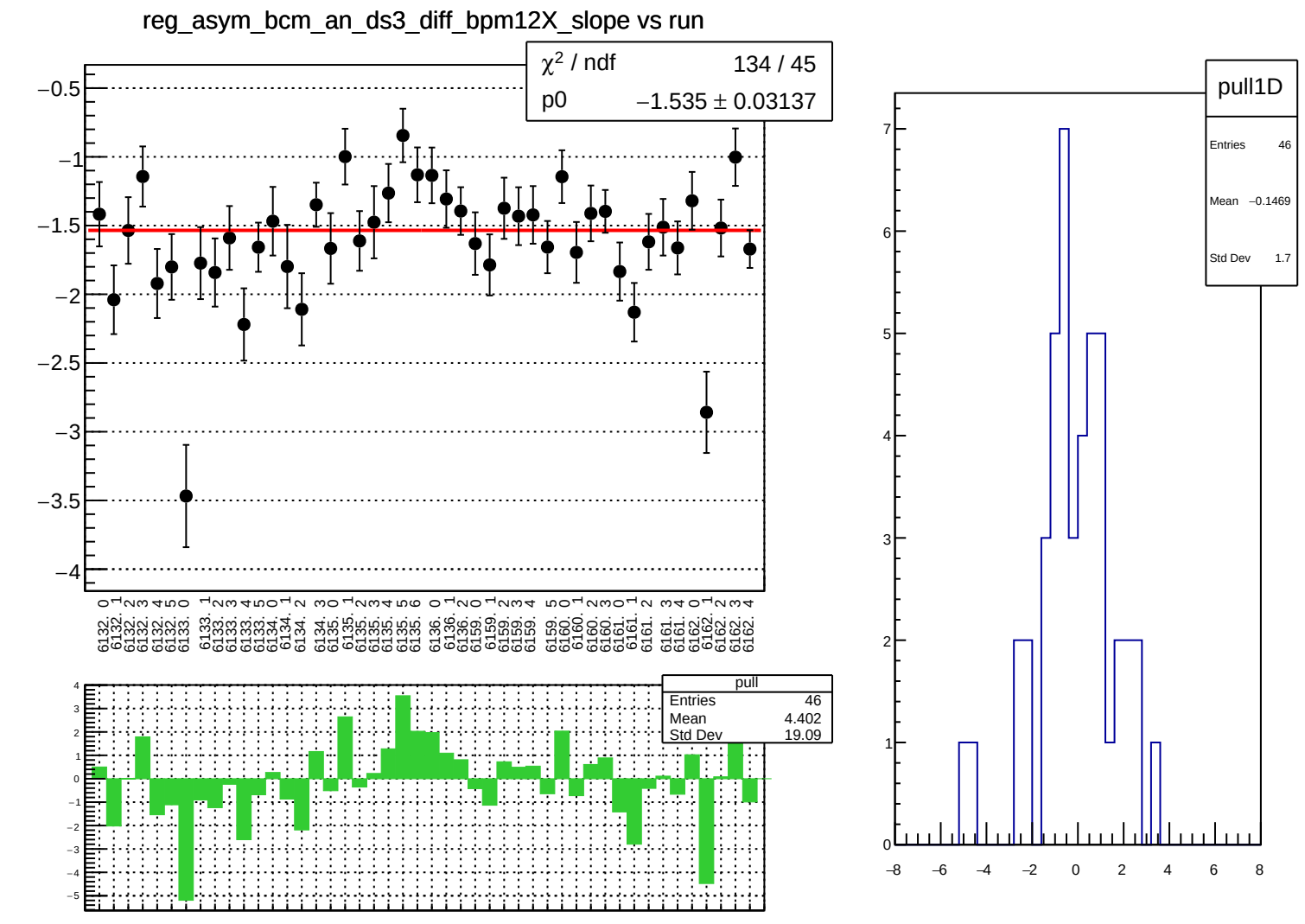

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 52.52 / 45
p0 6.7 ± 0.3791
pull
Entries 46
Mean 38.07
Std Dev 5.576

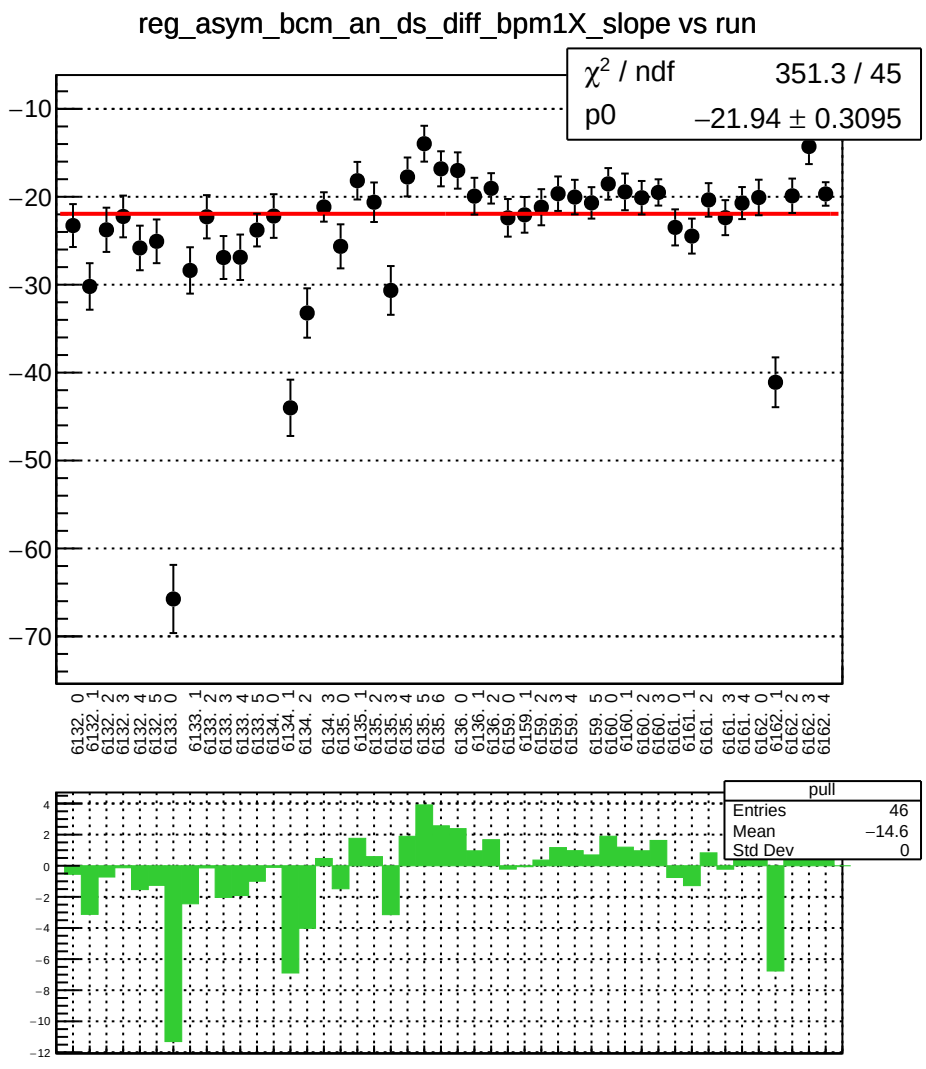

pull1D
Entries 46
Mean 0.07509
Std Dev 1.066

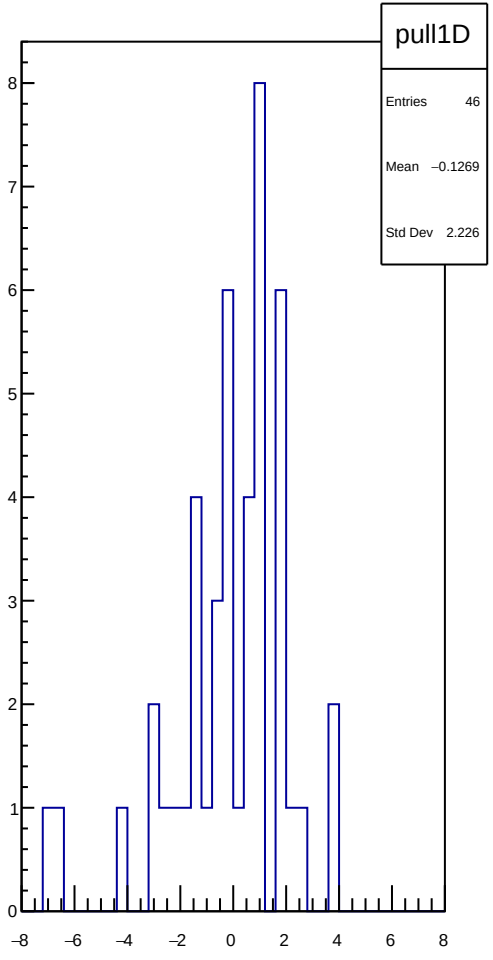

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 336 / 45
p0 26.25 ± 0.3811
pull
Entries 46
Mean −10.89
Std Dev 0
pull1D
Entries 46
Mean 0.1127
Std Dev 2.163

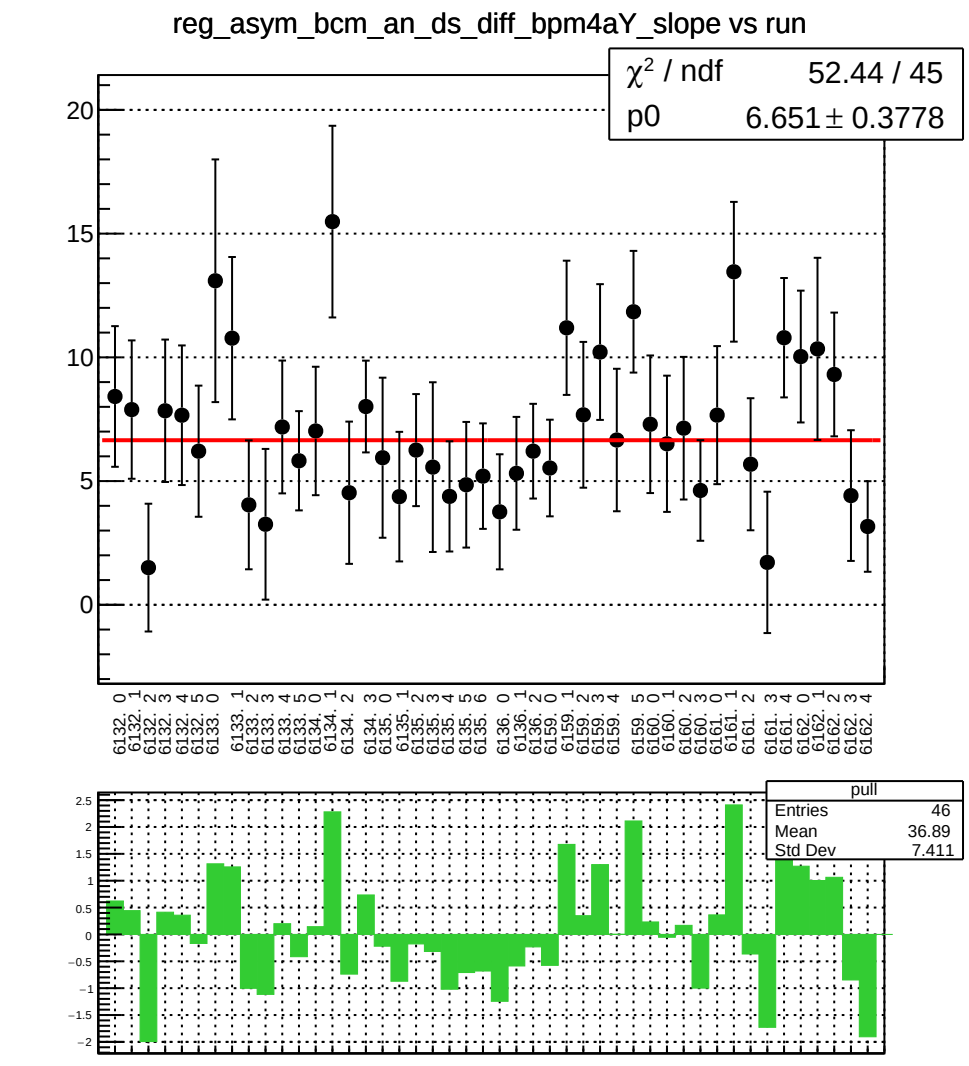

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 57.92 / 45
p0 −8.17 ± 0.4065
pull
Entries 46
Mean 30.54
Std Dev 13.14

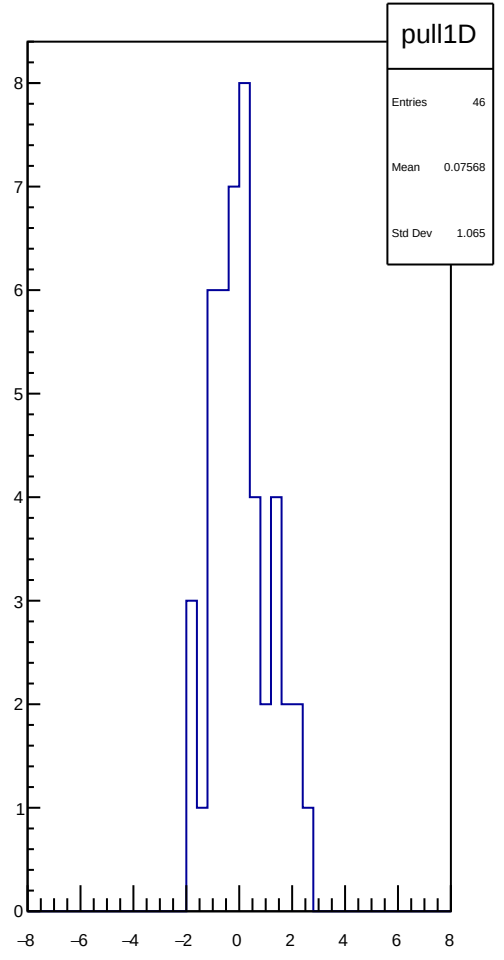

pull1D
Entries 46
Mean −0.08625
Std Dev 1.119

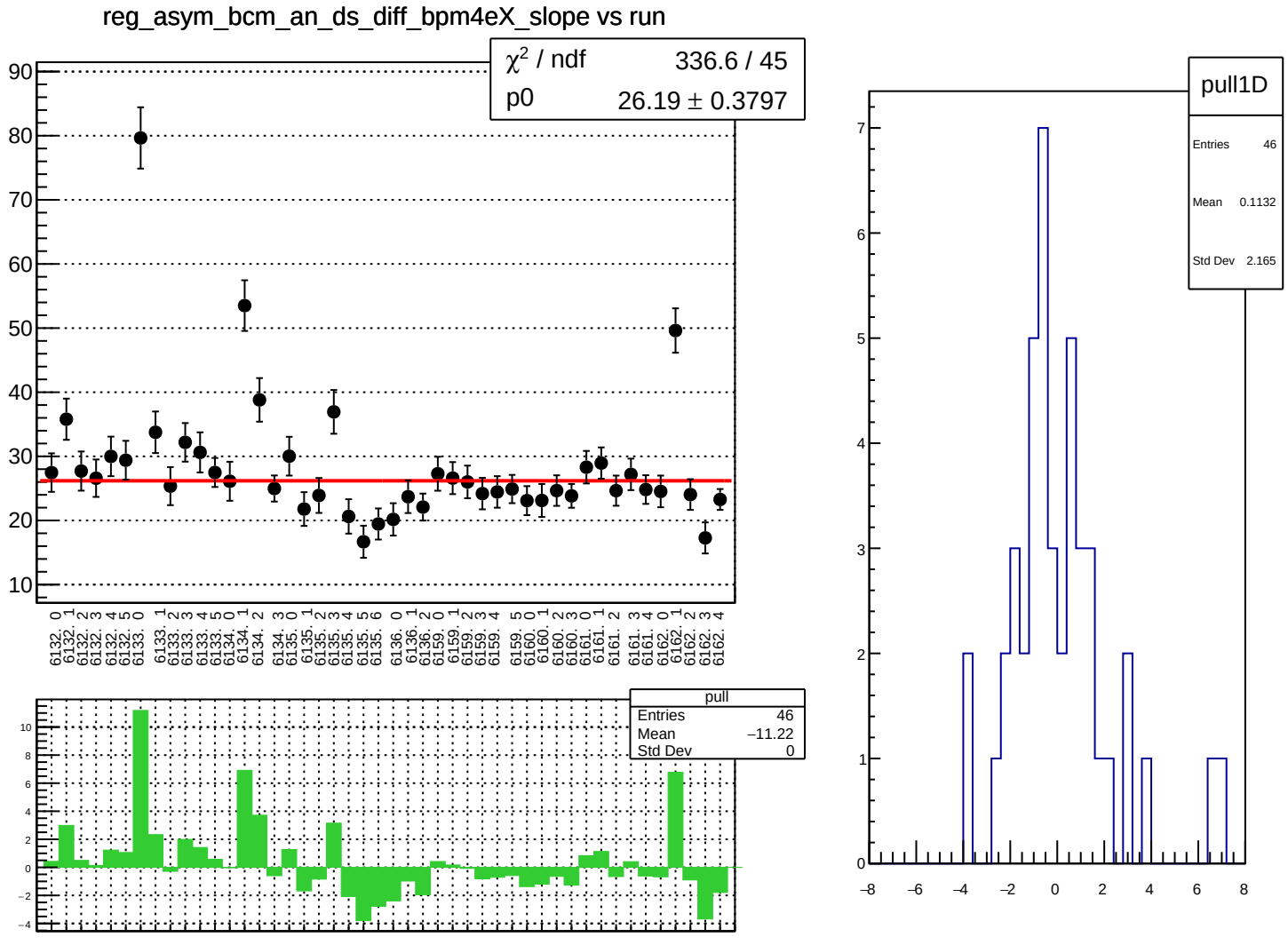

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 134 / 45
p0 −1.535 ± 0.03137
pull
Entries 46
Mean 4.402
Std Dev 19.09
pull1D
Entries 46
Mean −0.1469
Std Dev 1.7

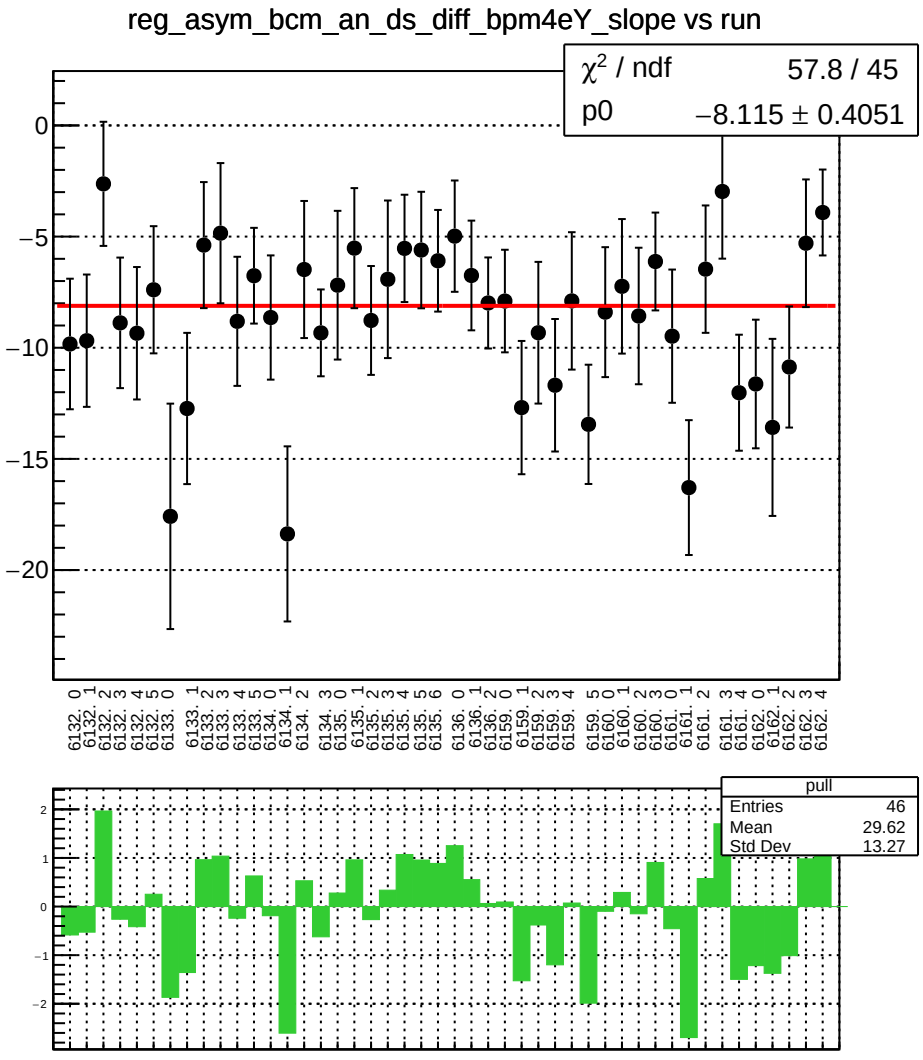

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 351.3 / 45
p0 −21.94 ± 0.3095
pull
Entries 46
Mean −14.6
Std Dev 0

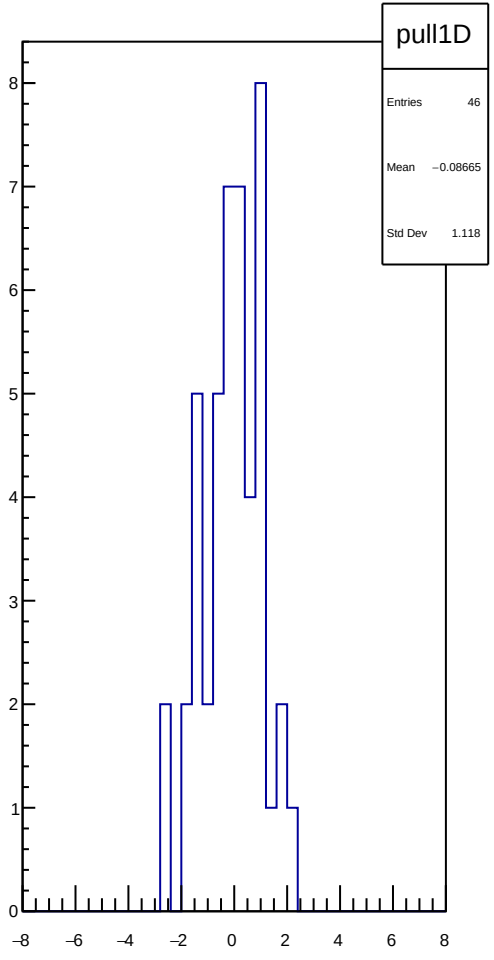

pull1D
Entries 46
Mean −0.1269
Std Dev 2.226

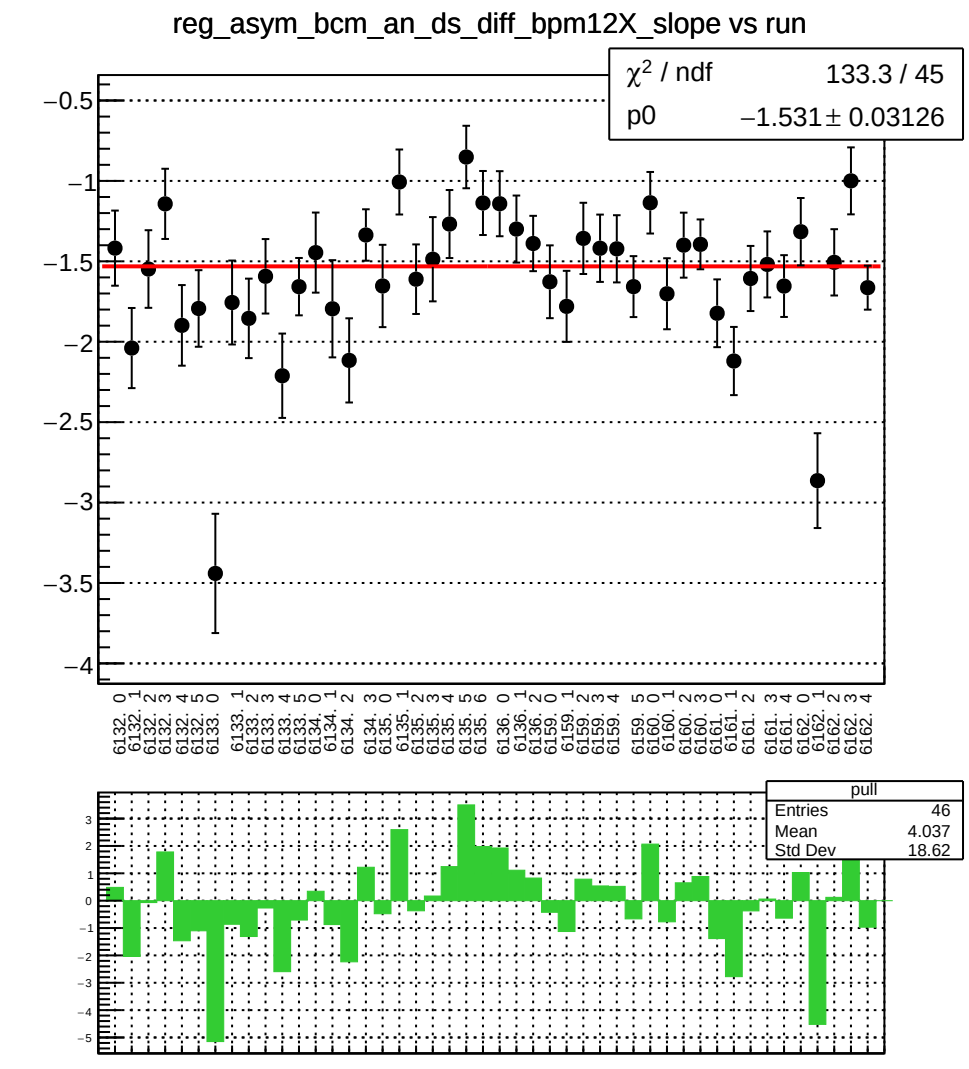

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 52.44 / 45
p0 6.651 ± 0.3778
pull
Entries 46
Mean 36.89
Std Dev 7.411

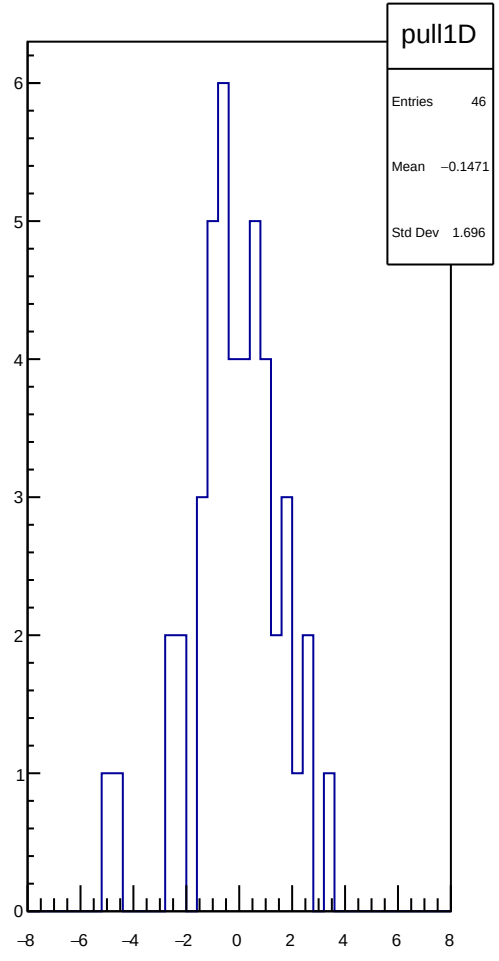

pull1D
Entries 46
Mean 0.07568
Std Dev 1.065

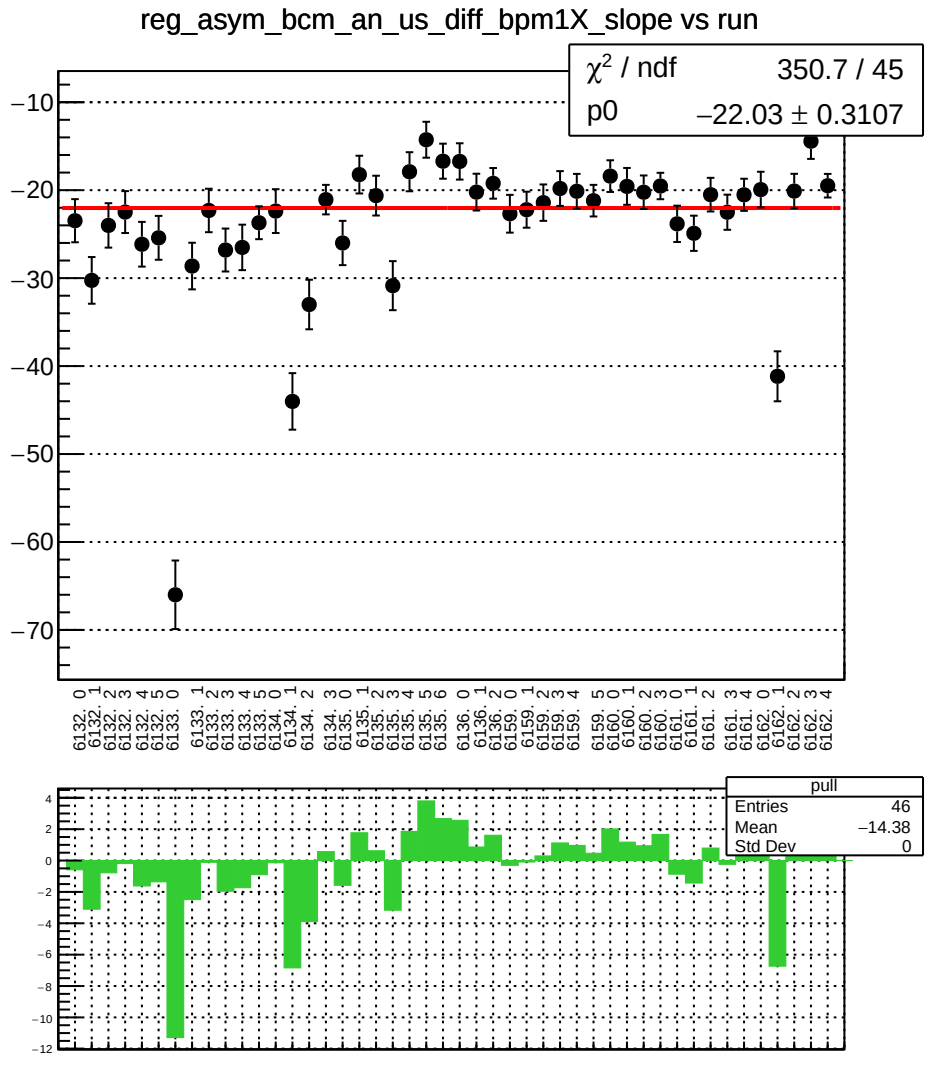

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 336.6 / 45
p0 26.19 ± 0.3797
pull
Entries 46
Mean −11.22
Std Dev 0
pull1D
Entries 46
Mean 0.1132
Std Dev 2.165

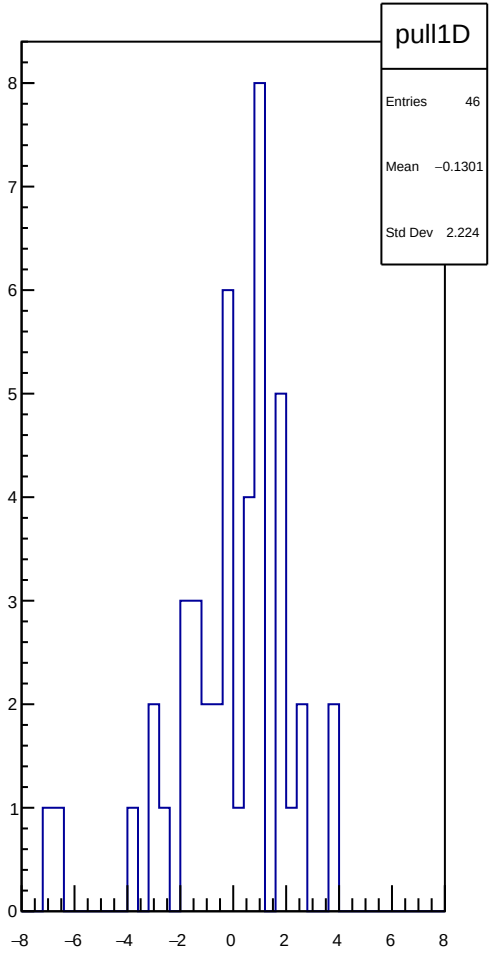

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 57.8 / 45
p0 −8.115 ± 0.4051
pull
Entries 46
Mean 29.62
Std Dev 13.27

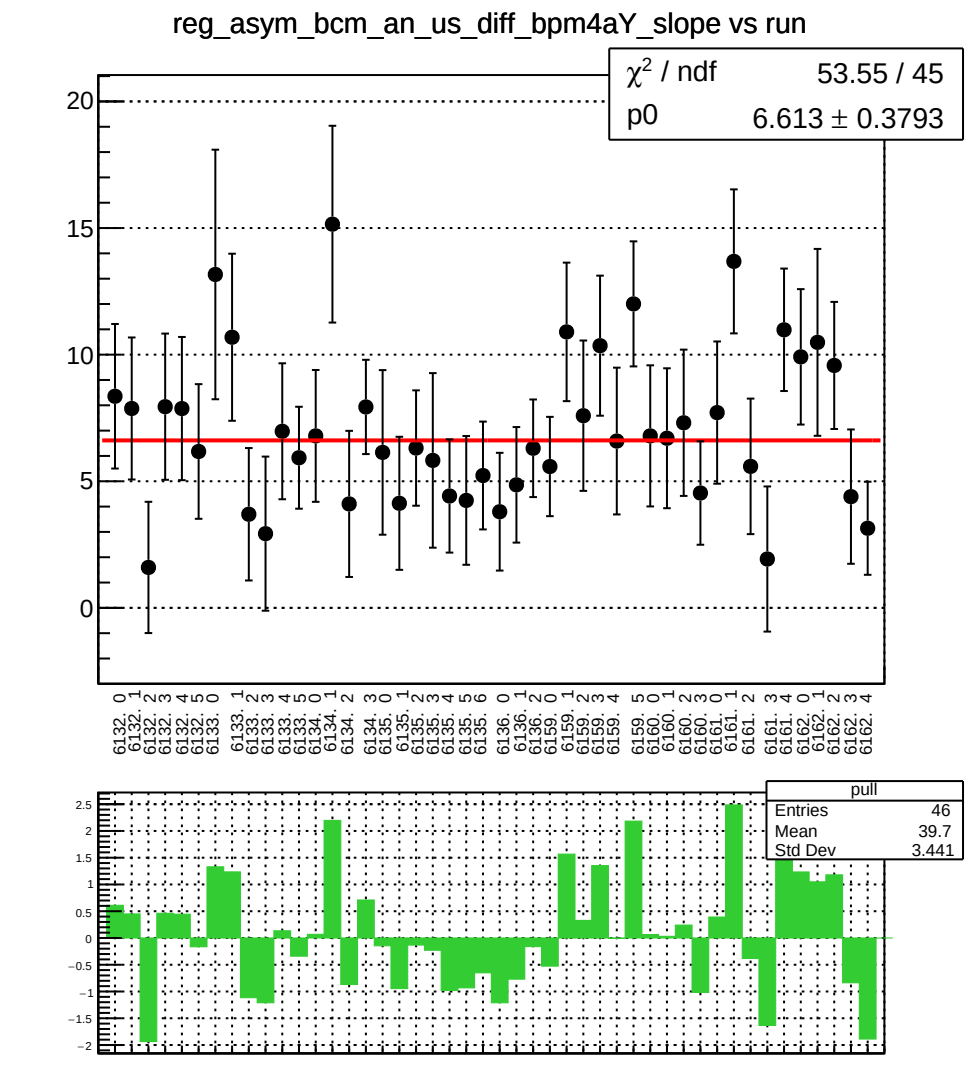

pull1D
Entries 46
Mean −0.08665
Std Dev 1.118

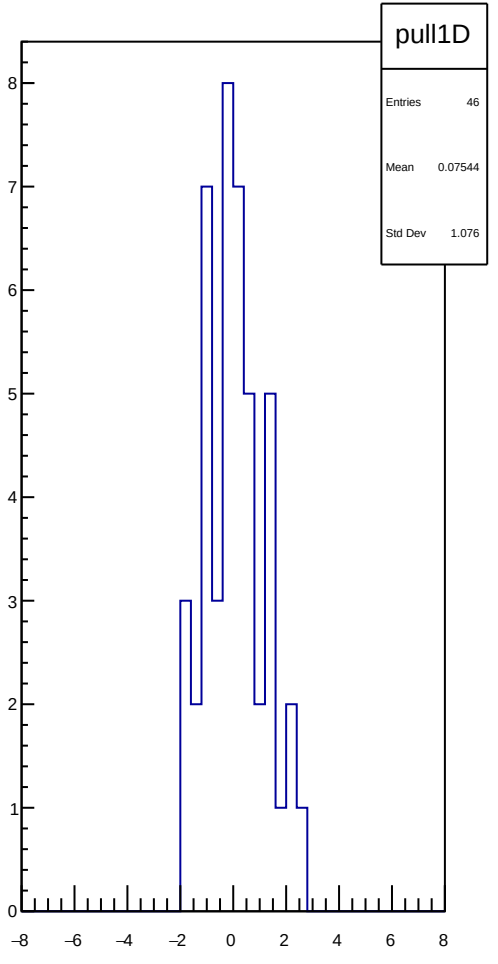

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 133.3 / 45
p0 −1.531 ± 0.03126
pull
Entries 46
Mean 4.037
Std Dev 18.62

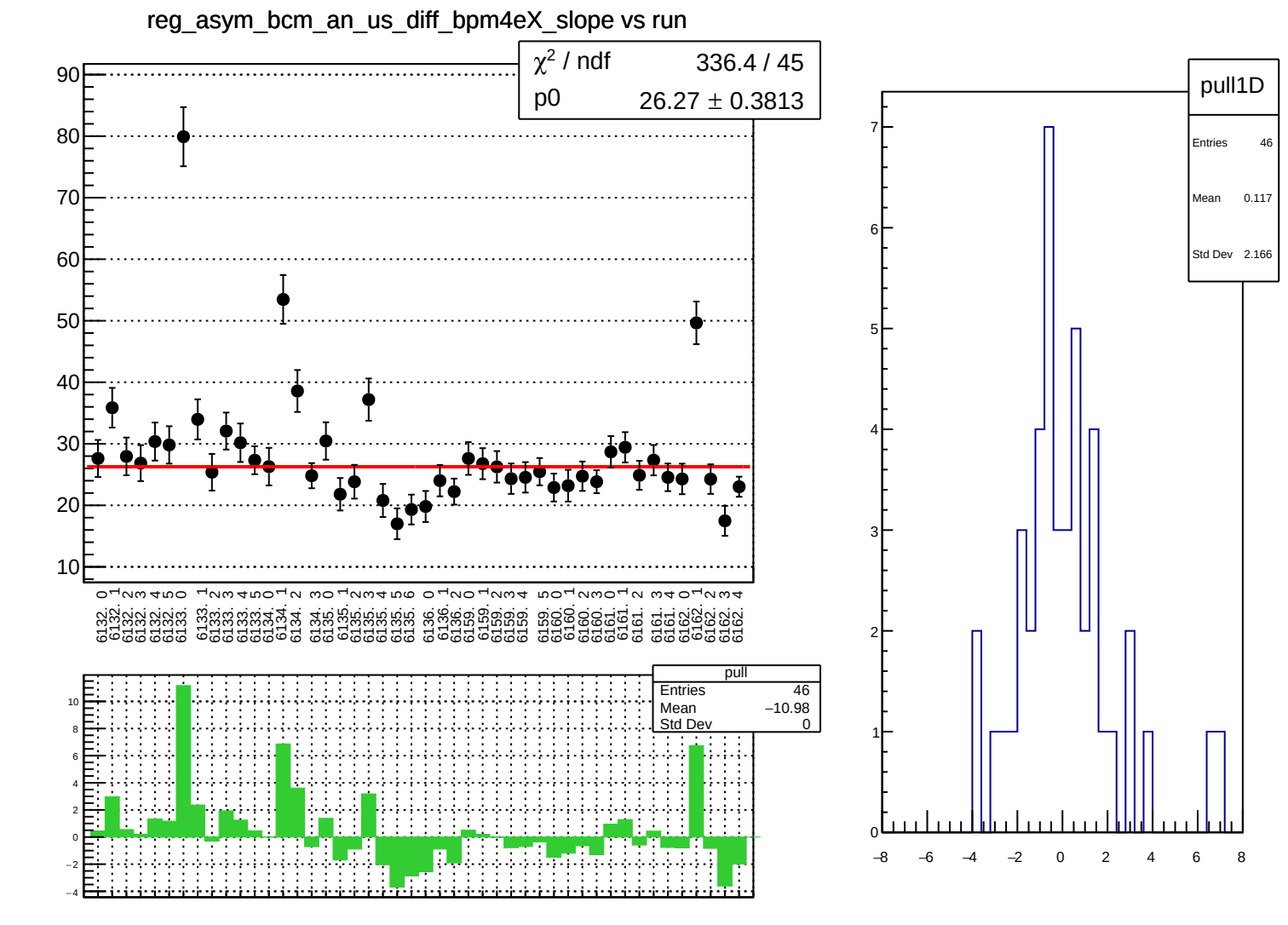

pull1D
Entries 46
Mean −0.1471
Std Dev 1.696

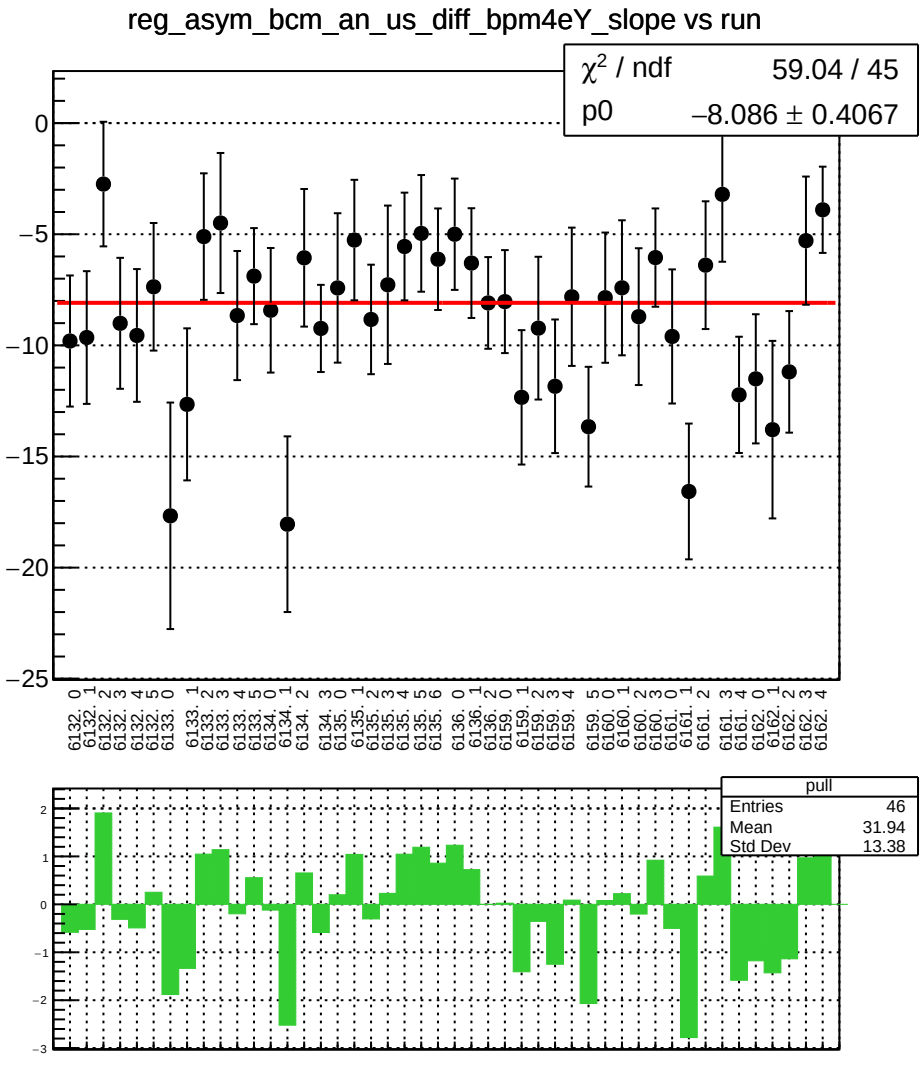

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 350.7 / 45
p0 −22.03 ± 0.3107
pull
Entries 46
Mean −14.38
Std Dev 0

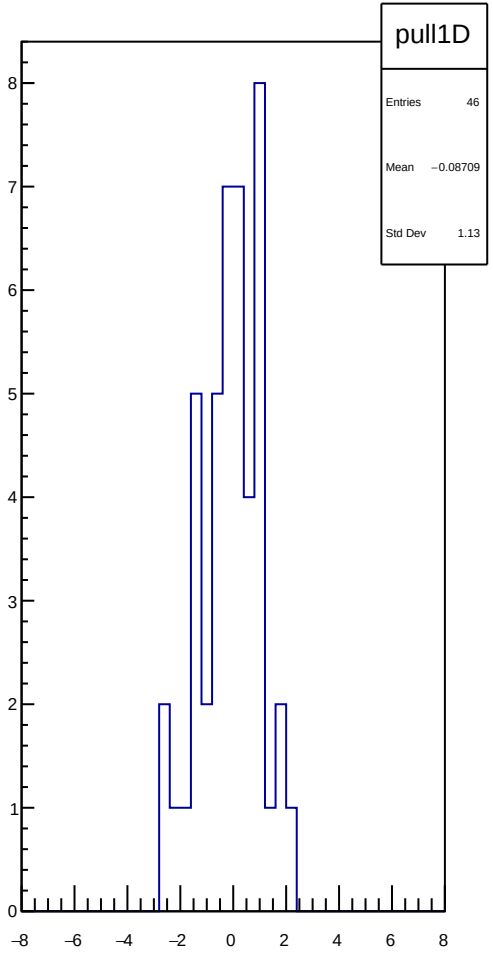

pull1D
Entries 46
Mean −0.1301
Std Dev 2.224

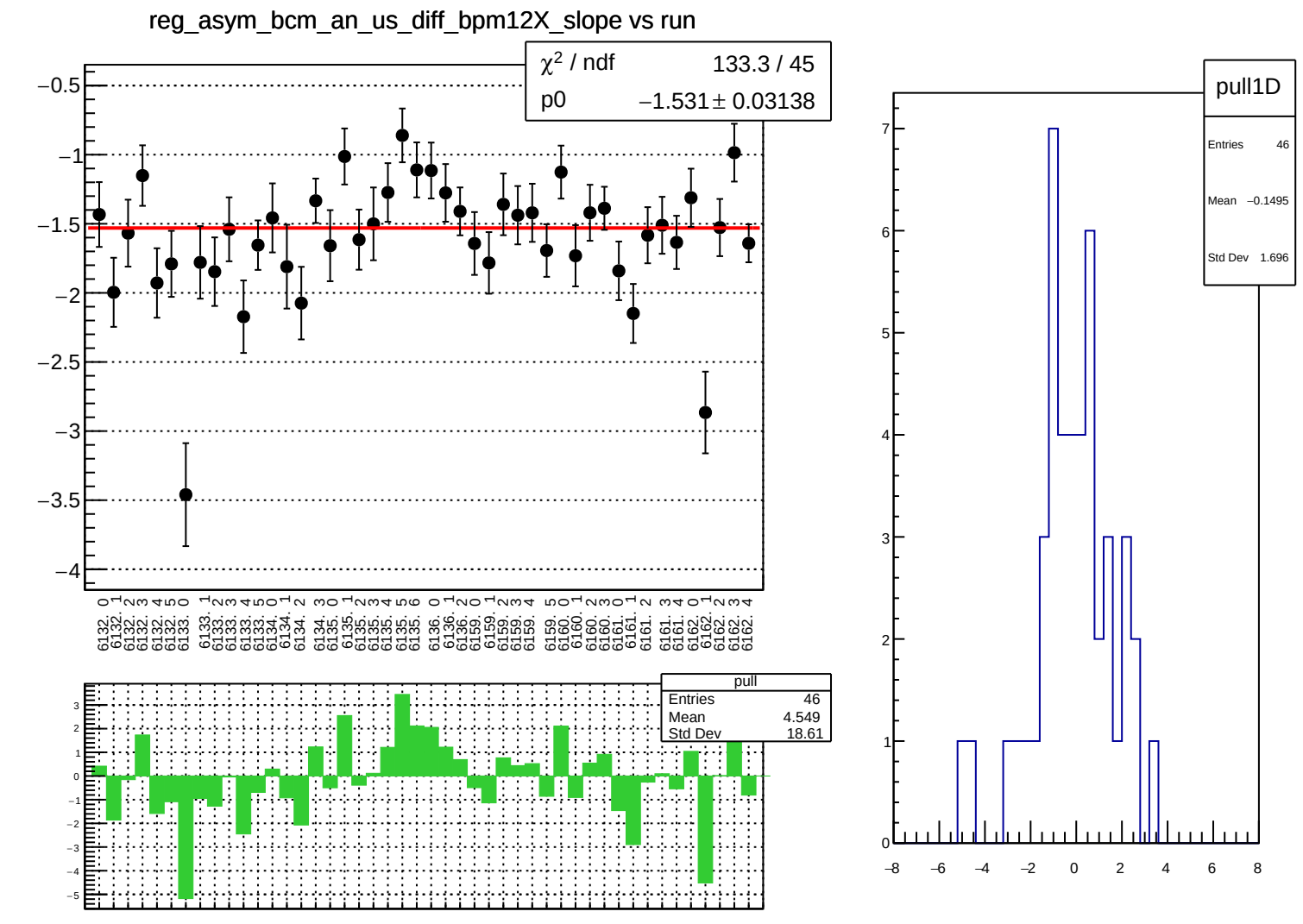

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 53.55 / 45
p0 6.613 ± 0.3793
pull
Entries 46
Mean 39.7
Std Dev 3.441

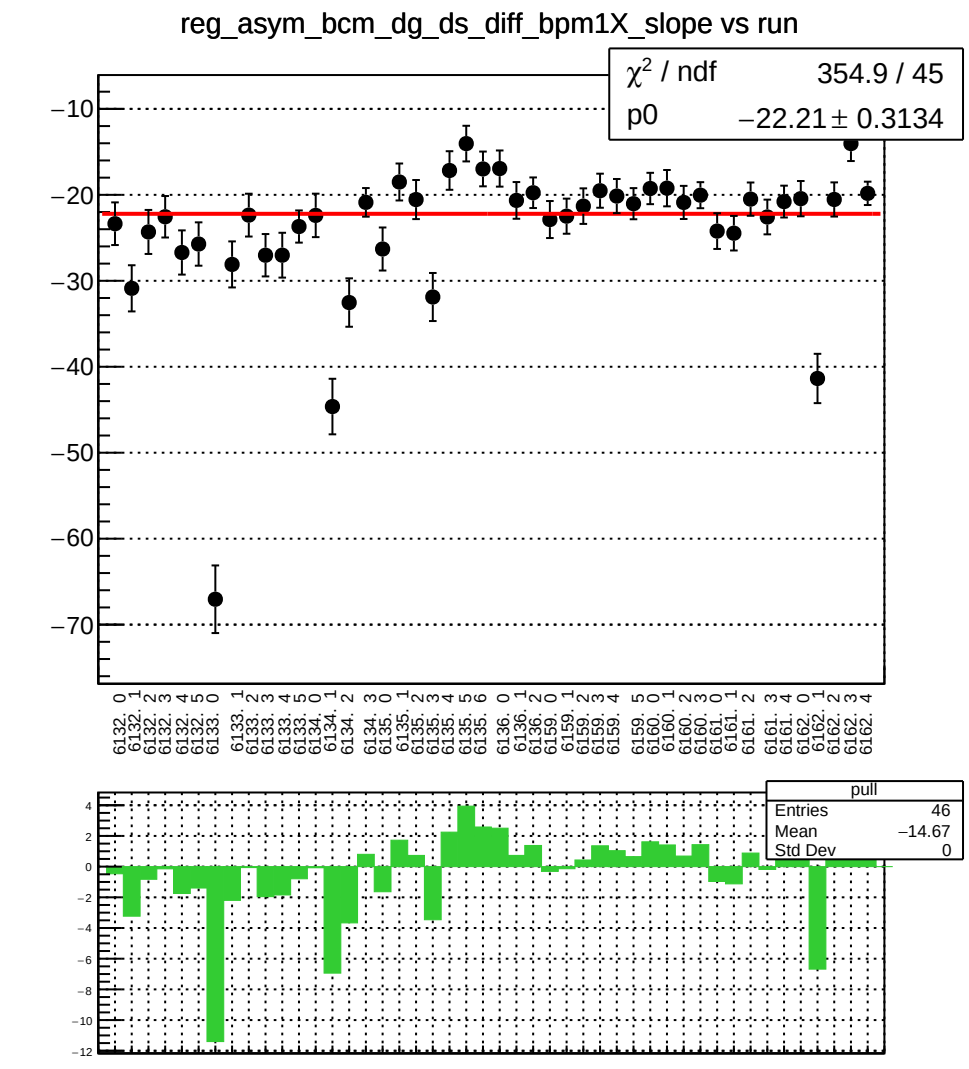

pull1D
Entries 46
Mean 0.07544
Std Dev 1.076

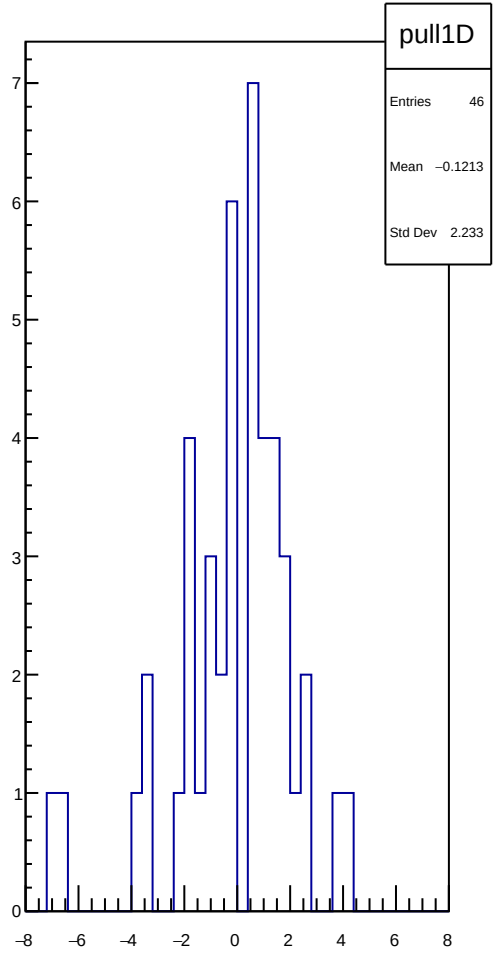

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 336.4 / 45
p0 26.27 ± 0.3813
pull
Entries 46
Mean −10.98
Std Dev 0
pull1D
Entries 46
Mean 0.117
Std Dev 2.166

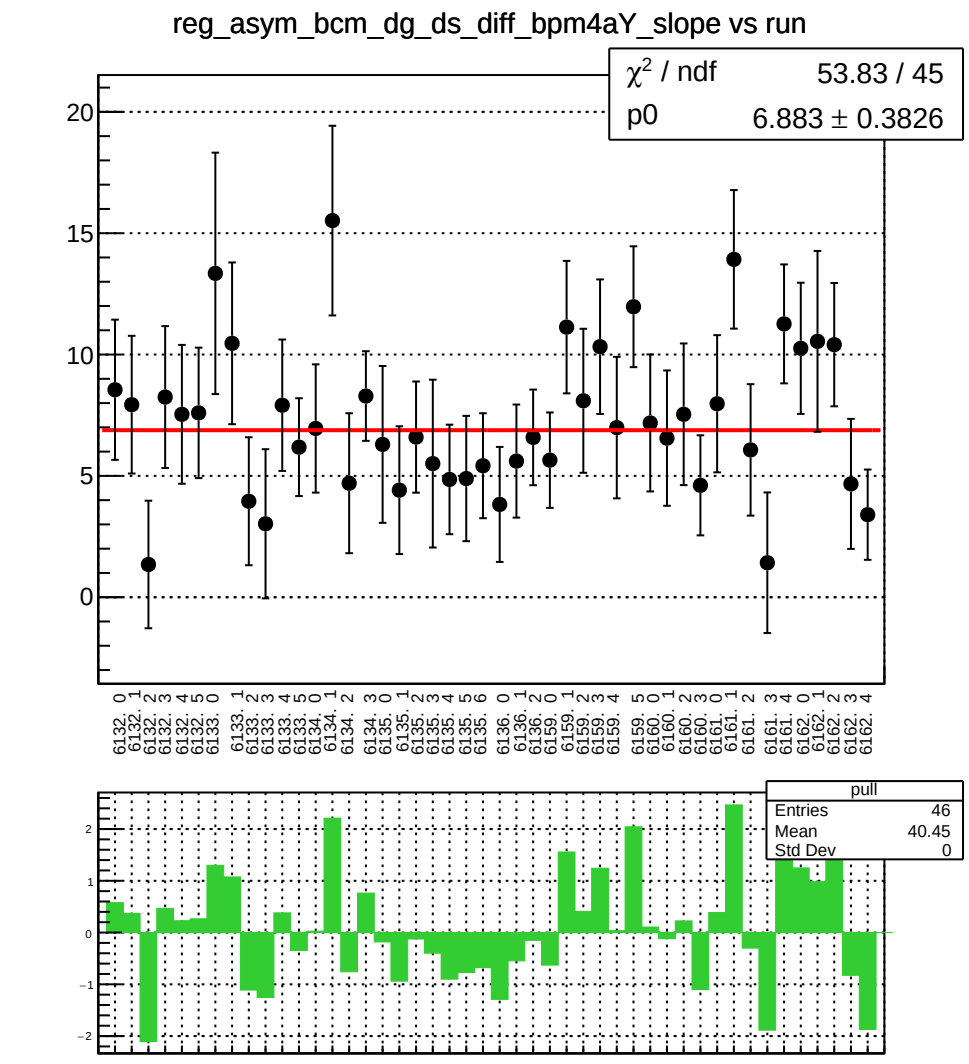

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 59.04 / 45
p0 −8.086 ± 0.4067
pull
Entries 46
Mean 31.94
Std Dev 13.38

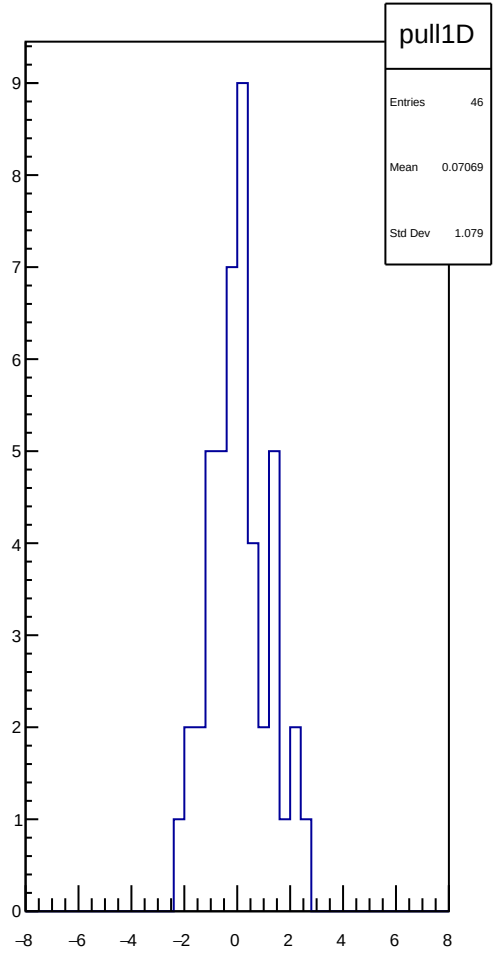

pull1D
Entries 46
Mean −0.08709
Std Dev 1.13

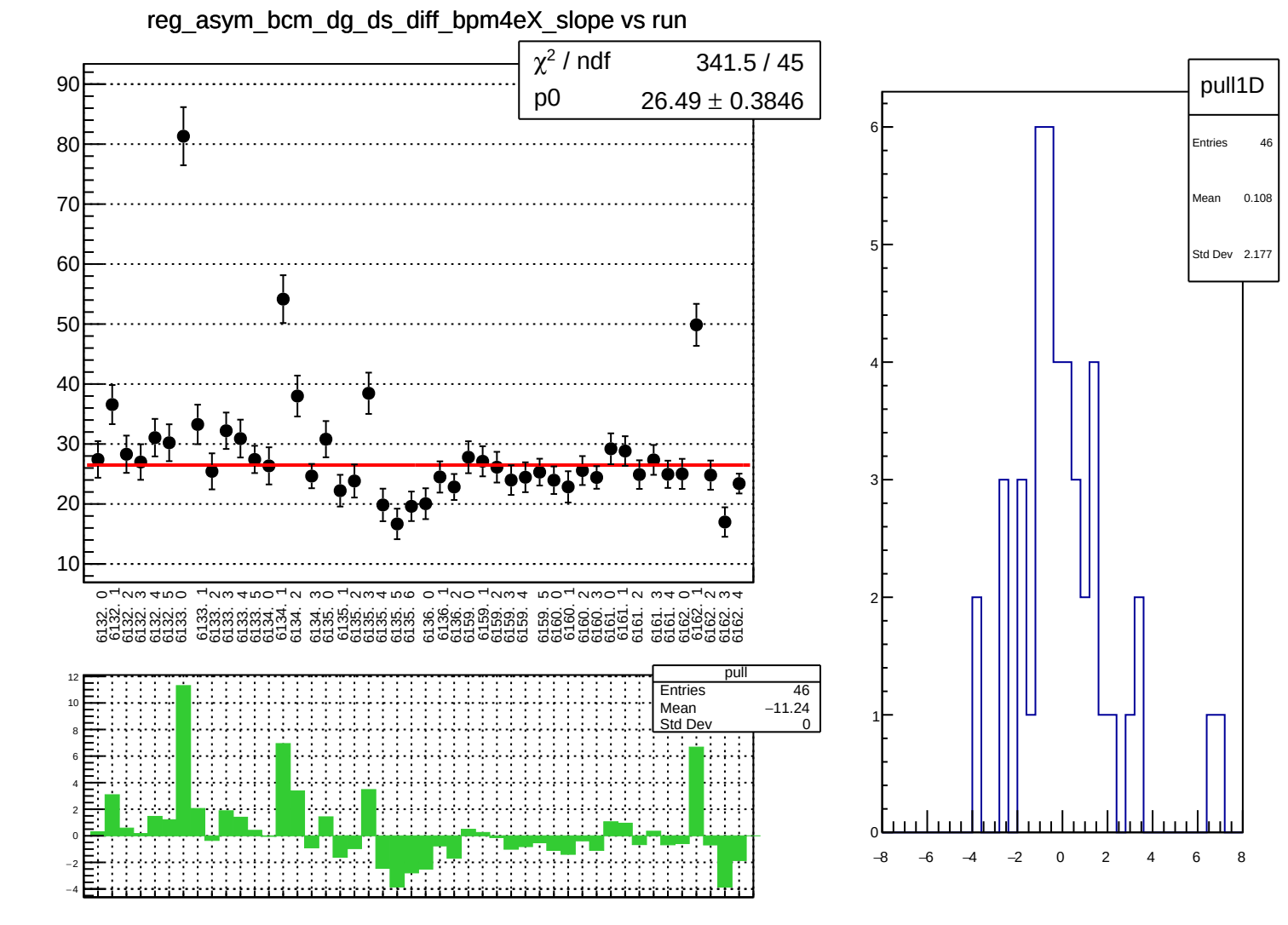

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 133.3 / 45
p0 −1.531 ± 0.03138
pull
Entries 46
Mean 4.549
Std Dev 18.61
pull1D
Entries 46
Mean −0.1495
Std Dev 1.696

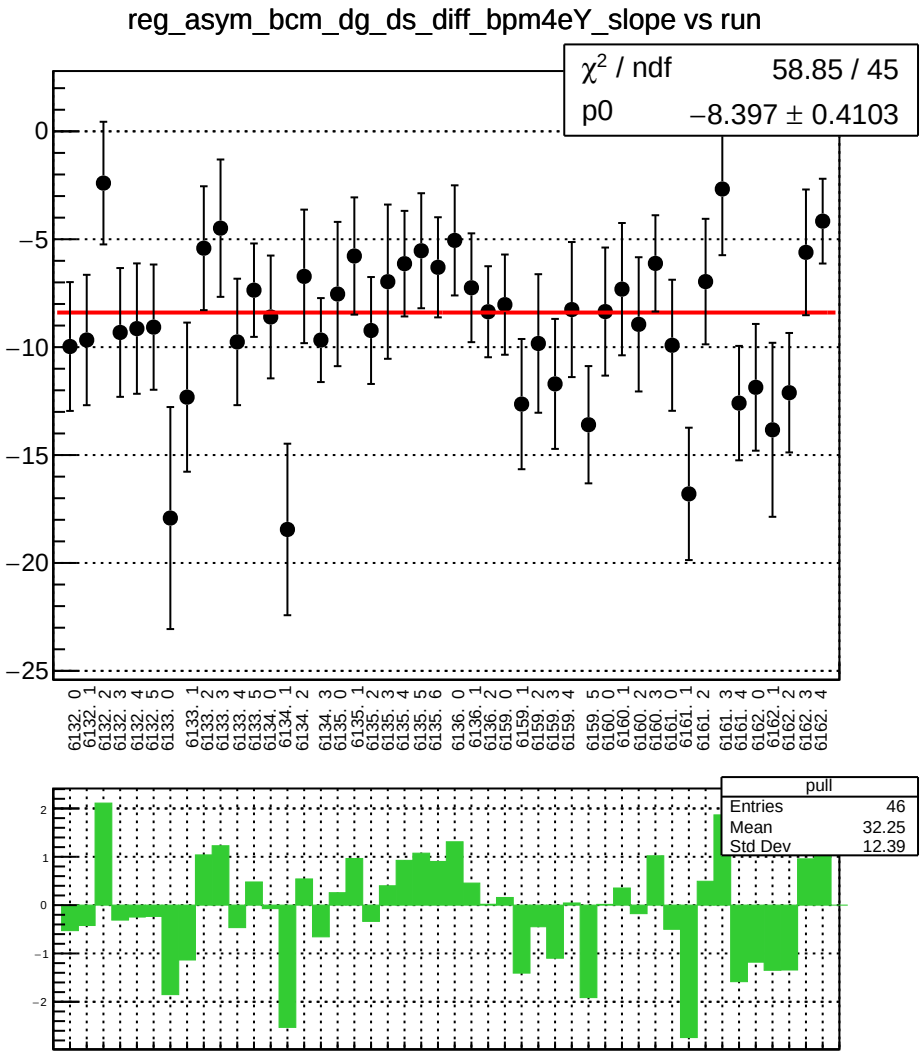

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 354.9 / 45
p0 −22.21 ± 0.3134
pull
Entries 46
Mean −14.67
Std Dev 0

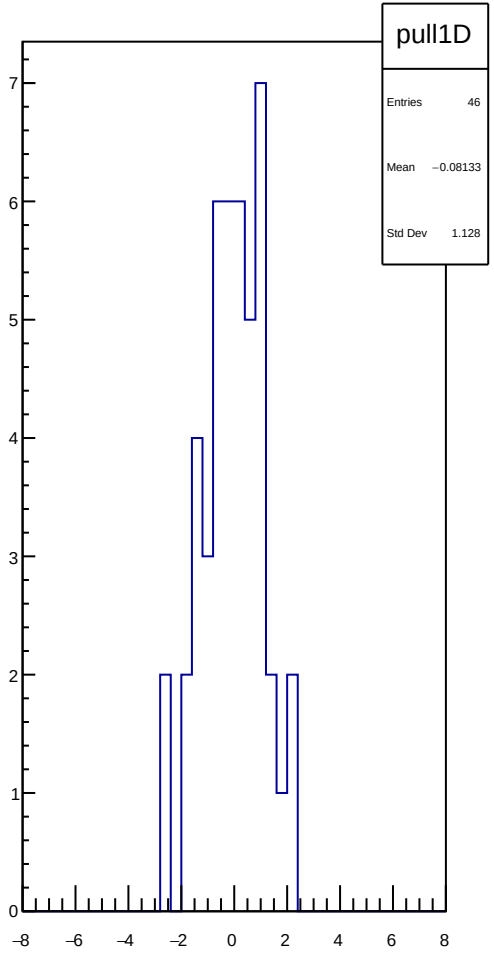

pull1D
Entries 46
Mean −0.1213
Std Dev 2.233

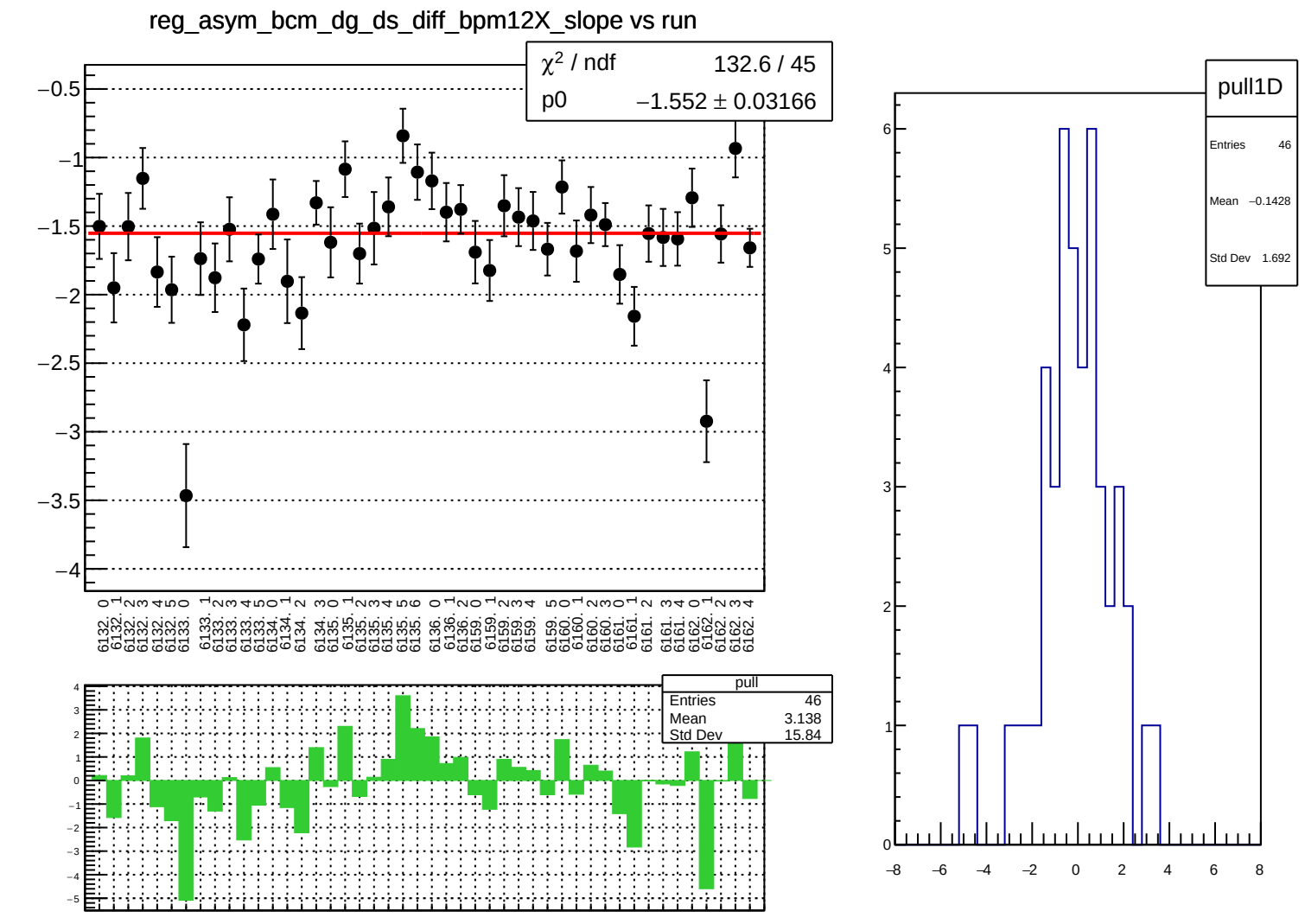

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 53.83 / 45
p0 6.883 ± 0.3826
pull
Entries 46
Mean 40.45
Std Dev 0

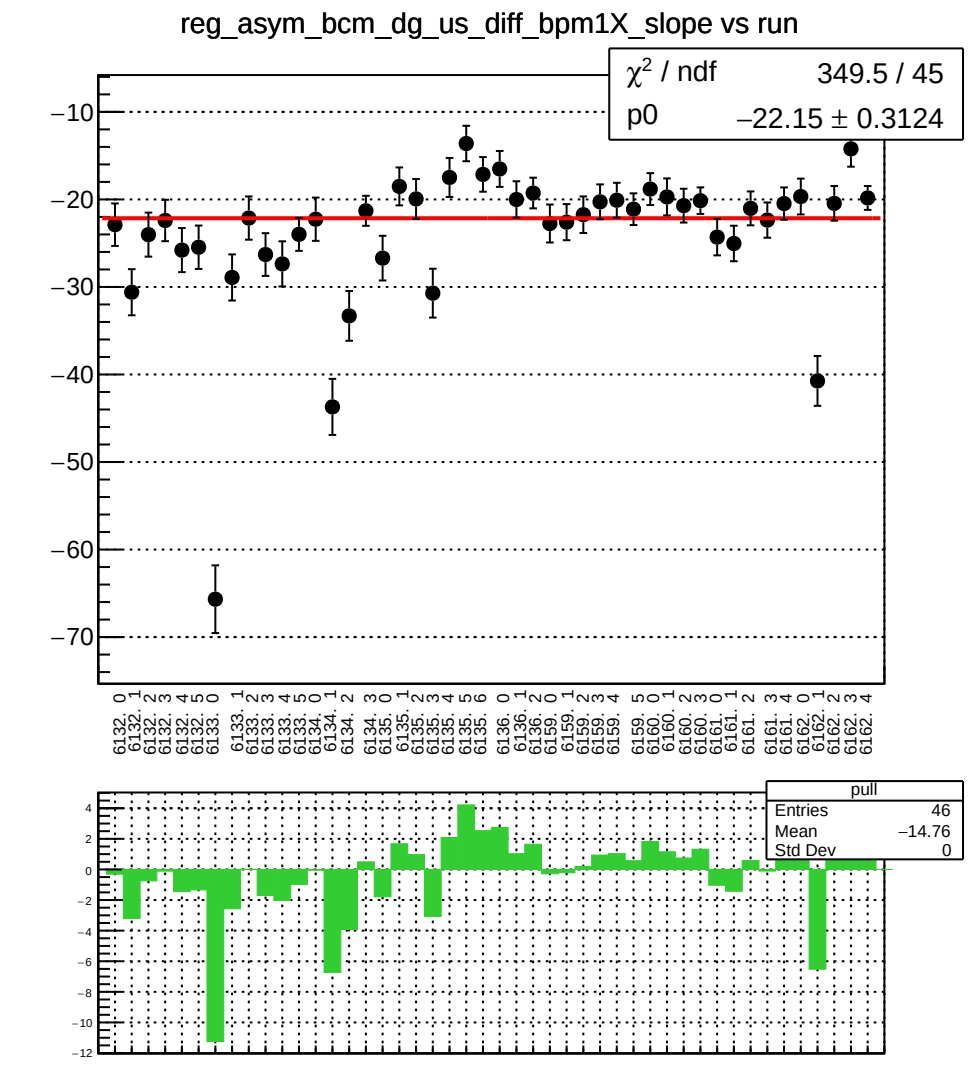

pull1D
Entries 46
Mean 0.07069
Std Dev 1.079

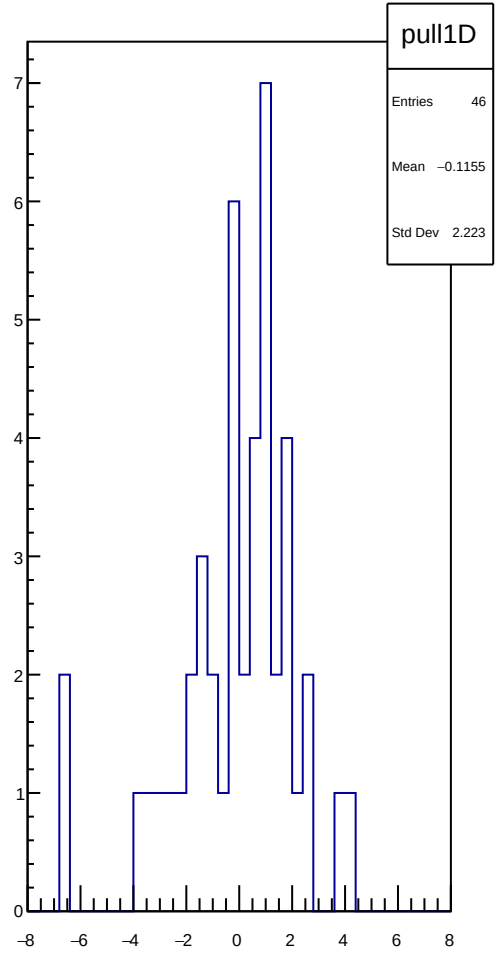

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 341.5 / 45
p0 26.49 ± 0.3846
pull
Entries 46
Mean −11.24
Std Dev 0
pull1D
Entries 46
Mean 0.108
Std Dev 2.177

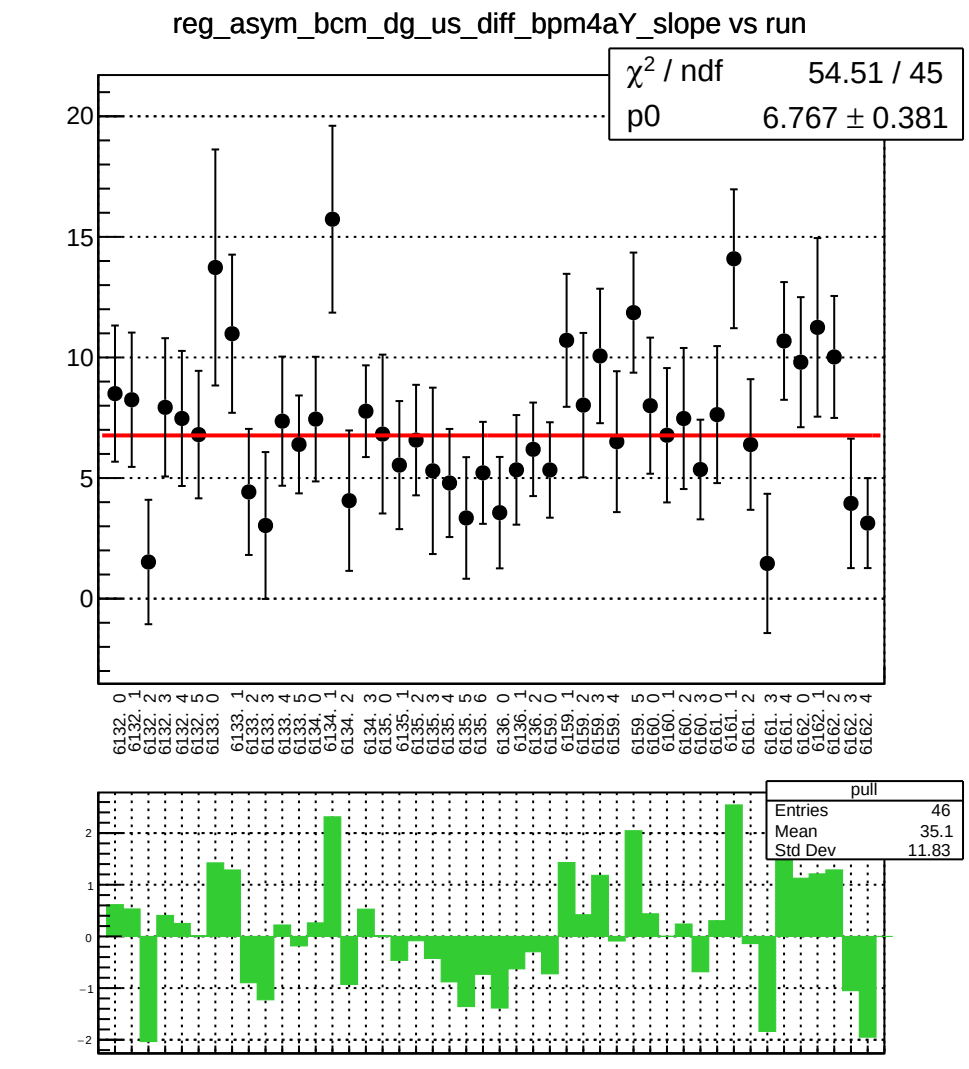

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 58.85 / 45
p0 −8.397 ± 0.4103
pull
Entries 46
Mean 32.25
Std Dev 12.39

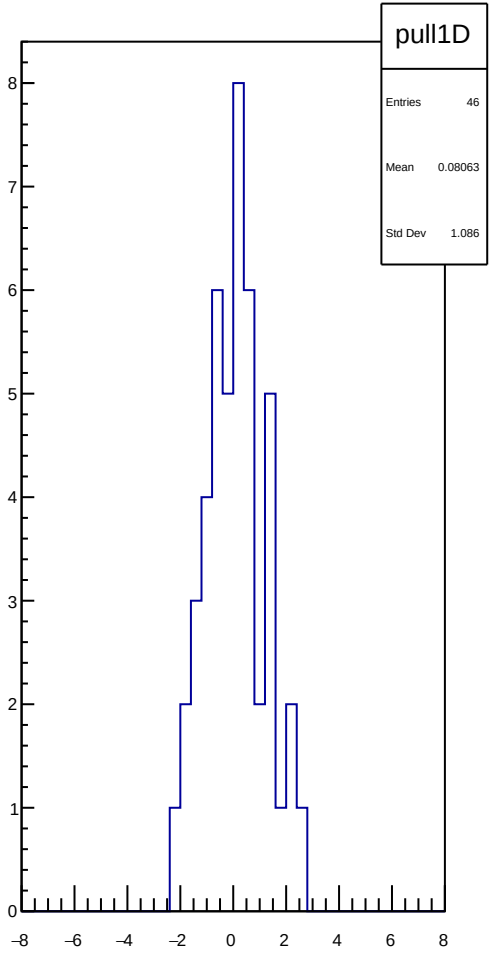

pull1D
Entries 46
Mean −0.08133
Std Dev 1.128

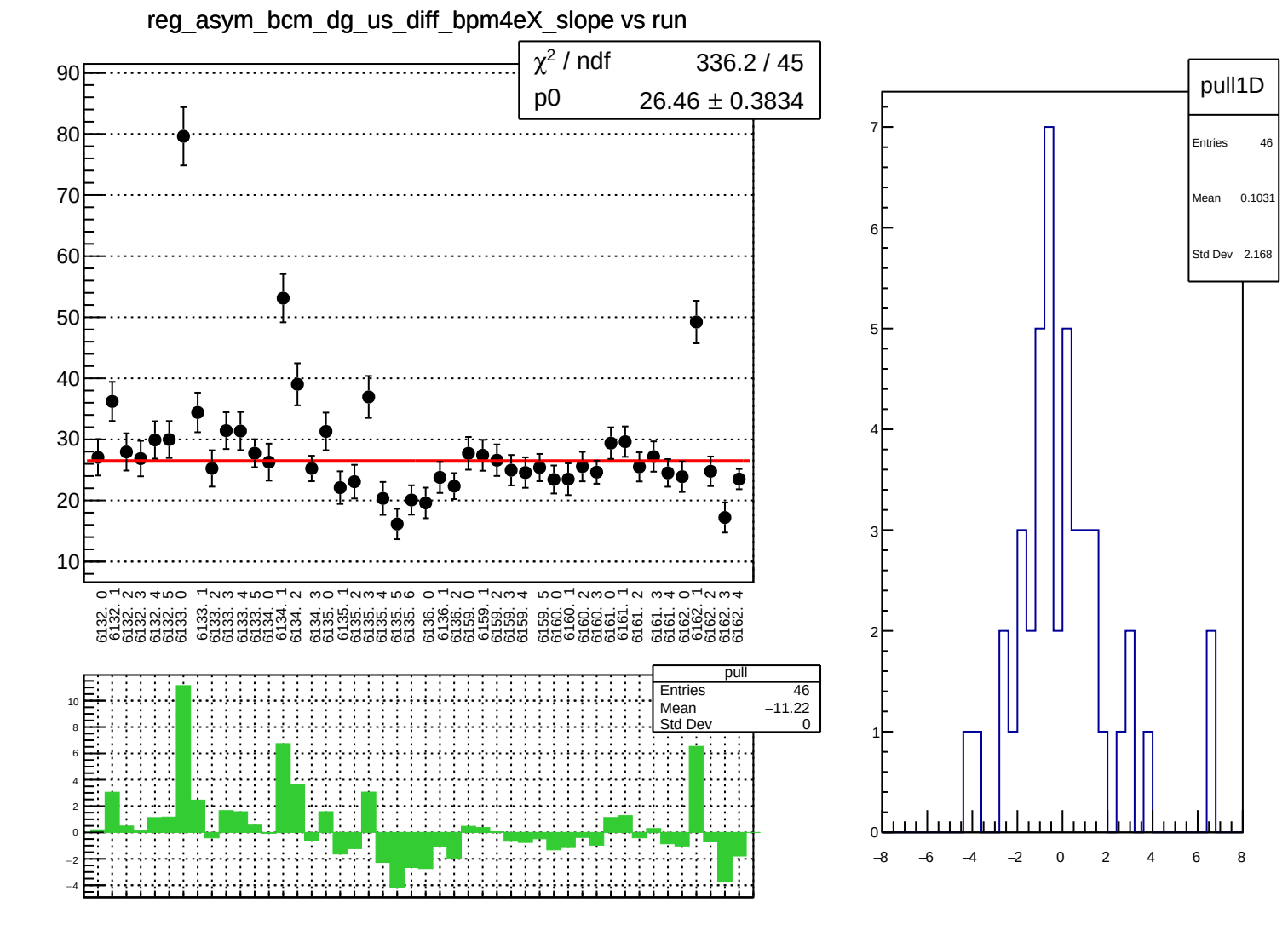

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 132.6 / 45
p0 −1.552 ± 0.03166
pull
Entries 46
Mean 3.138
Std Dev 15.84
pull1D
Entries 46
Mean −0.1428
Std Dev 1.692

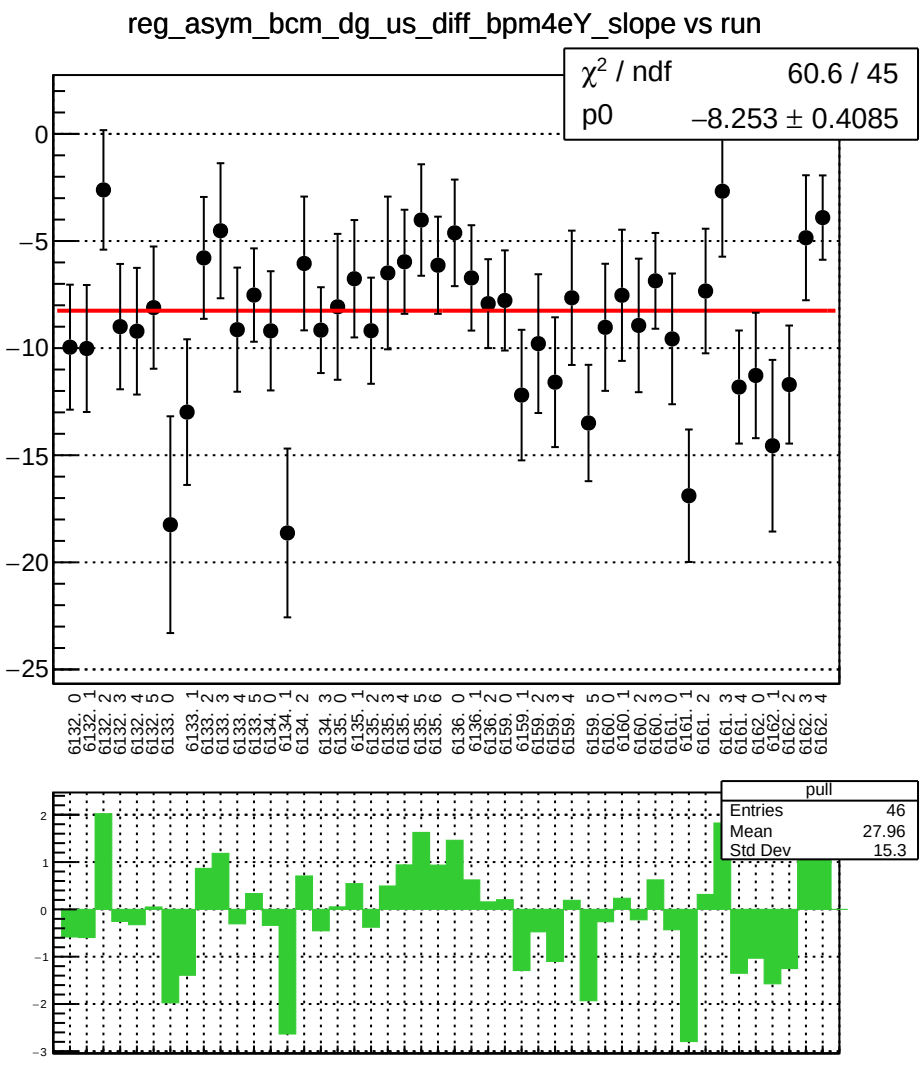

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 349.5 / 45
p0 −22.15 ± 0.3124
pull
Entries 46
Mean −14.76
Std Dev 0

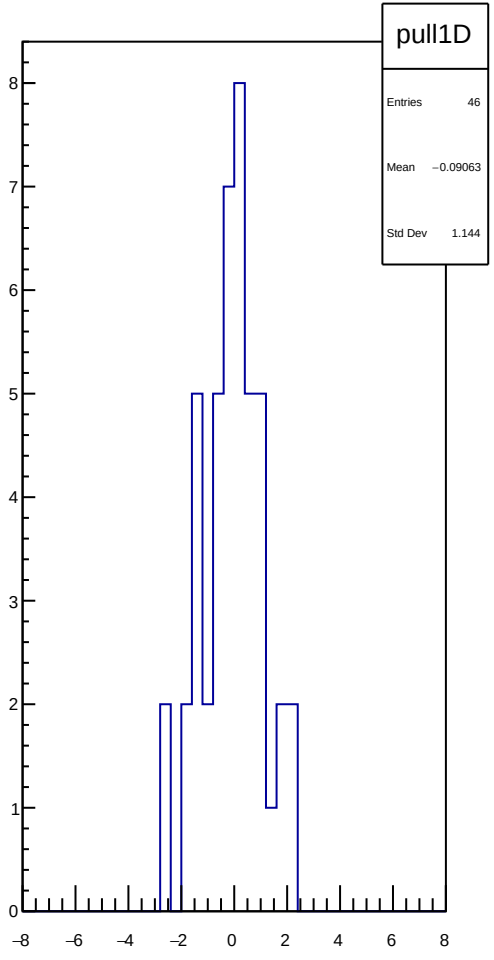

pull1D
Entries 46
Mean −0.1155
Std Dev 2.223

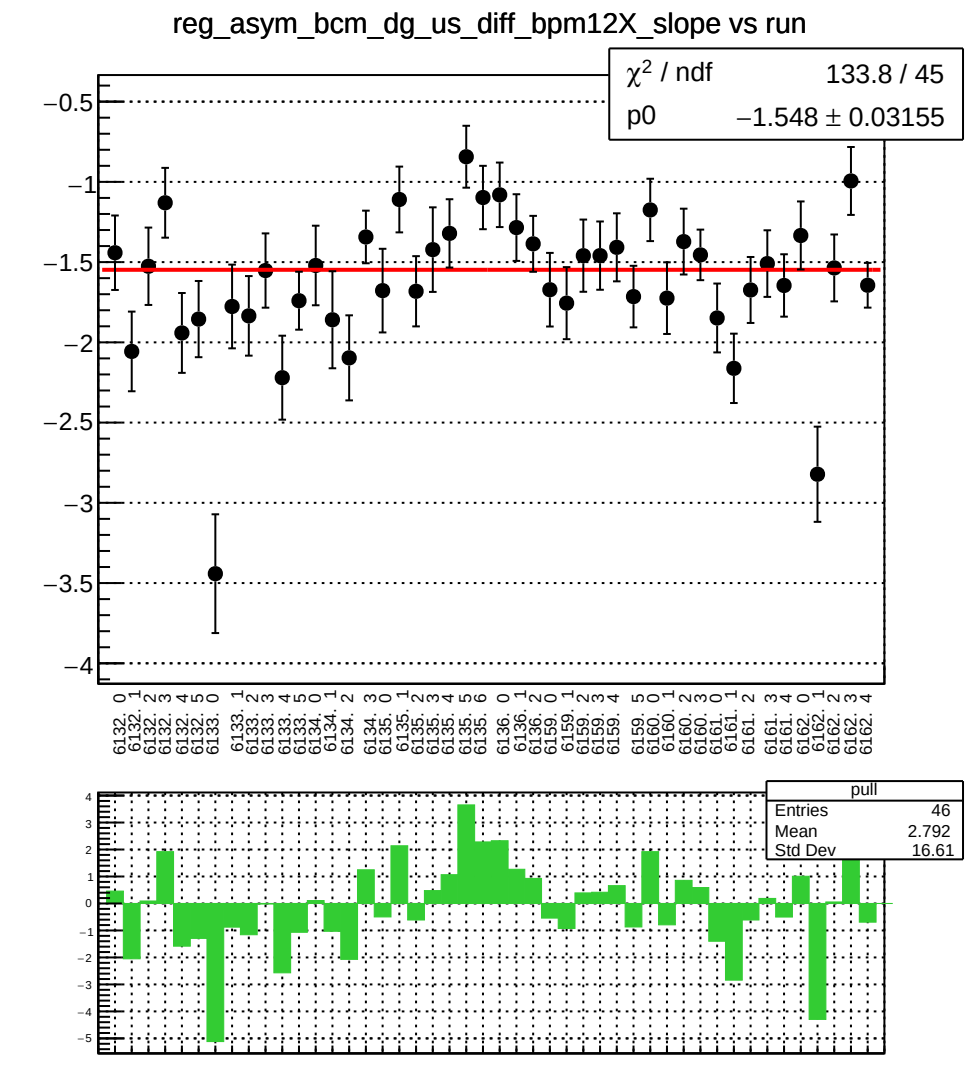

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 54.51 / 45
p0 6.767 ± 0.381
pull
Entries 46
Mean 35.1
Std Dev 11.83

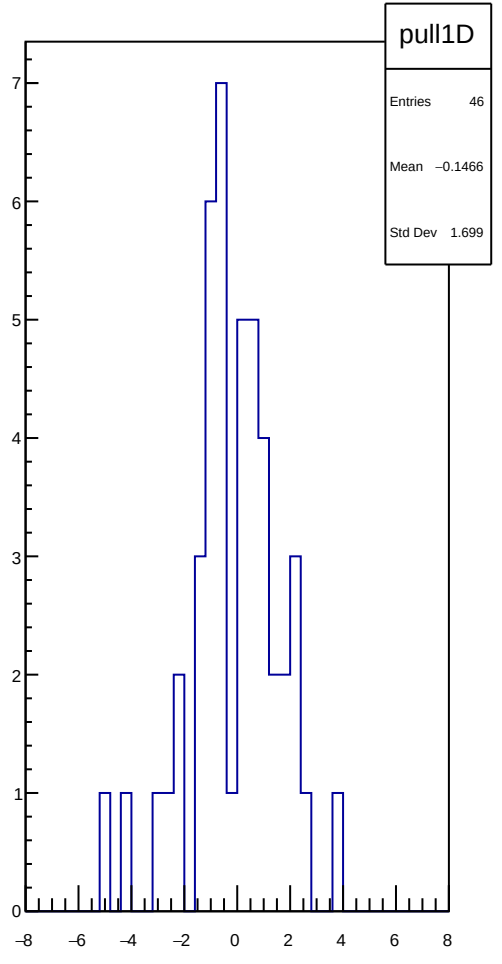

pull1D
Entries 46
Mean 0.08063
Std Dev 1.086

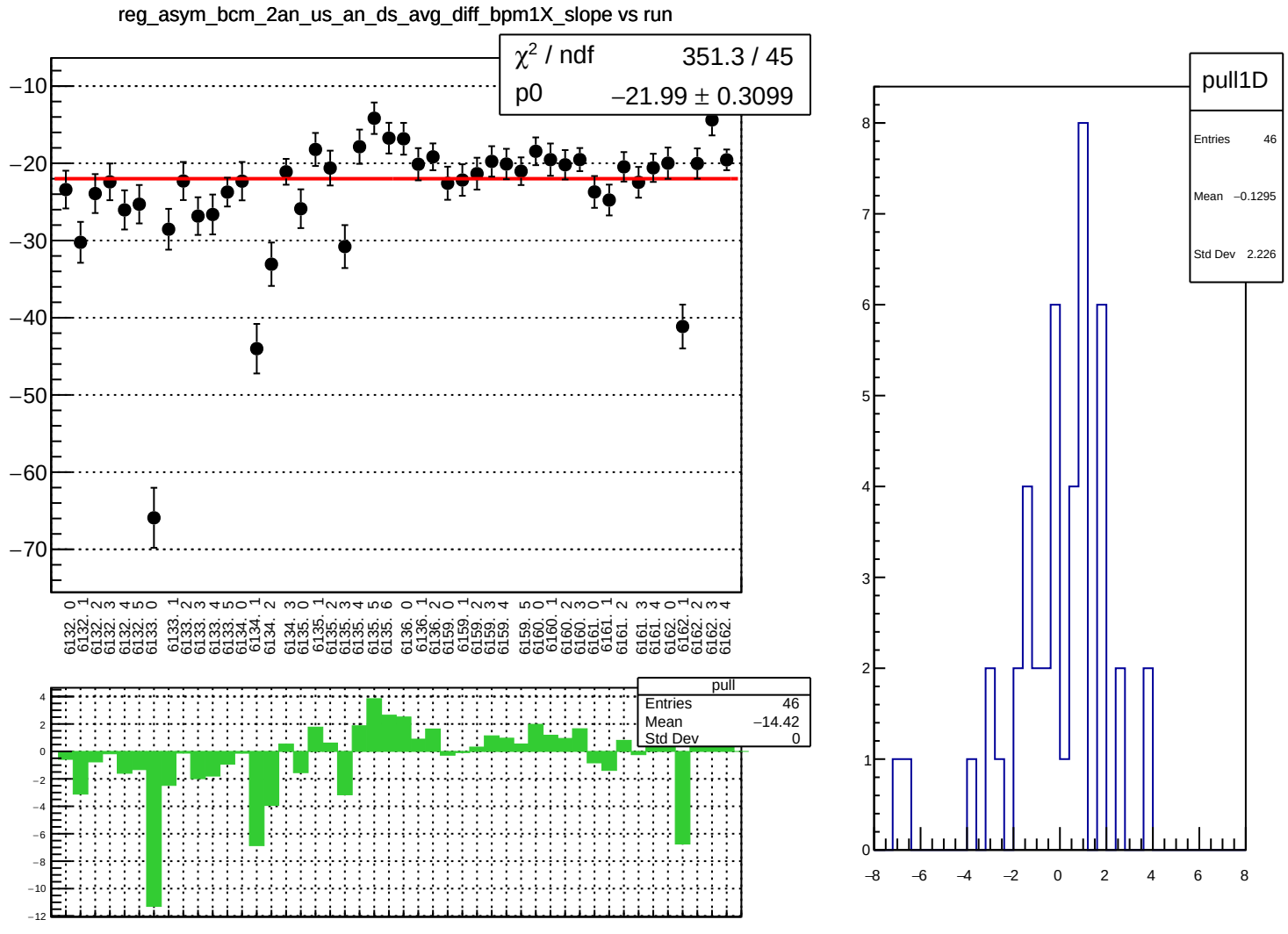

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 336.2 / 45
p0 26.46 ± 0.3834
pull
Entries 46
Mean −11.22
Std Dev 0
pull1D
Entries 46
Mean 0.1031
Std Dev 2.168

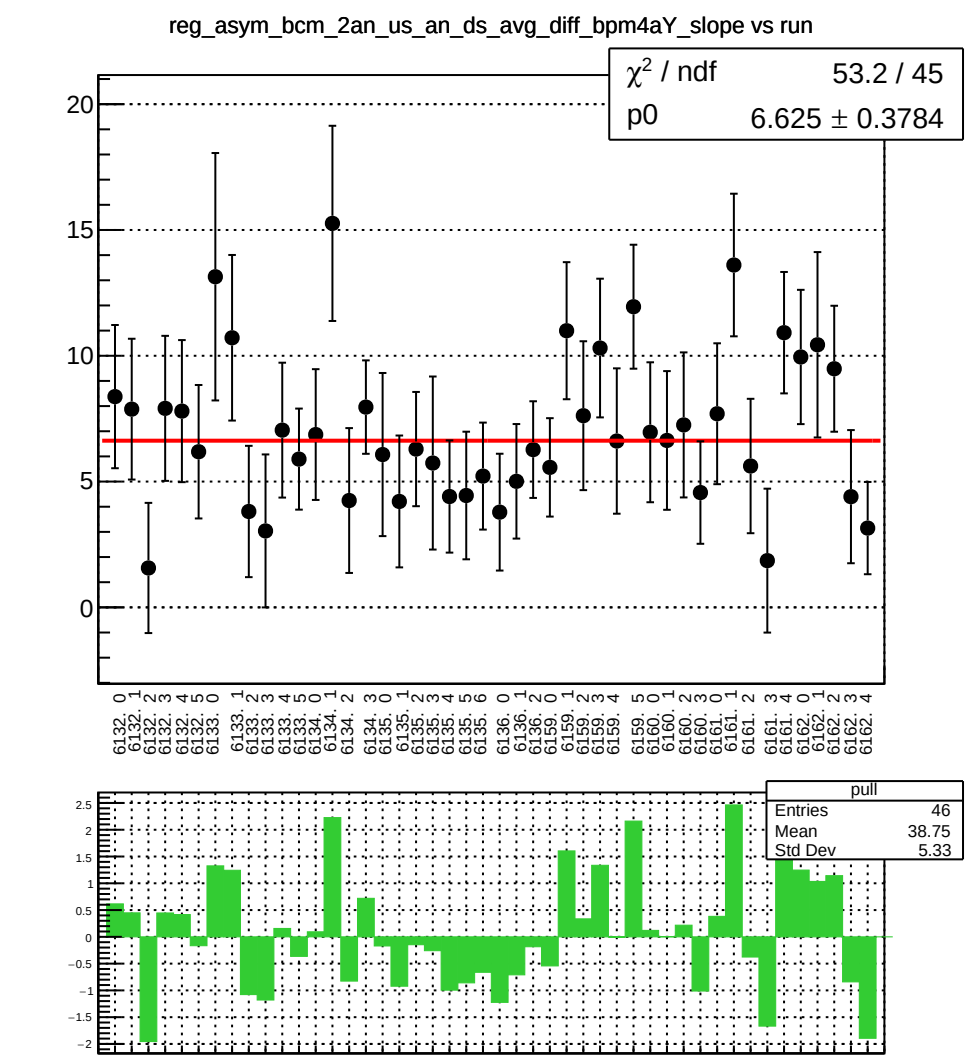

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 60.6 / 45
p0 −8.253 ± 0.4085
pull
Entries 46
Mean 27.96
Std Dev 15.3

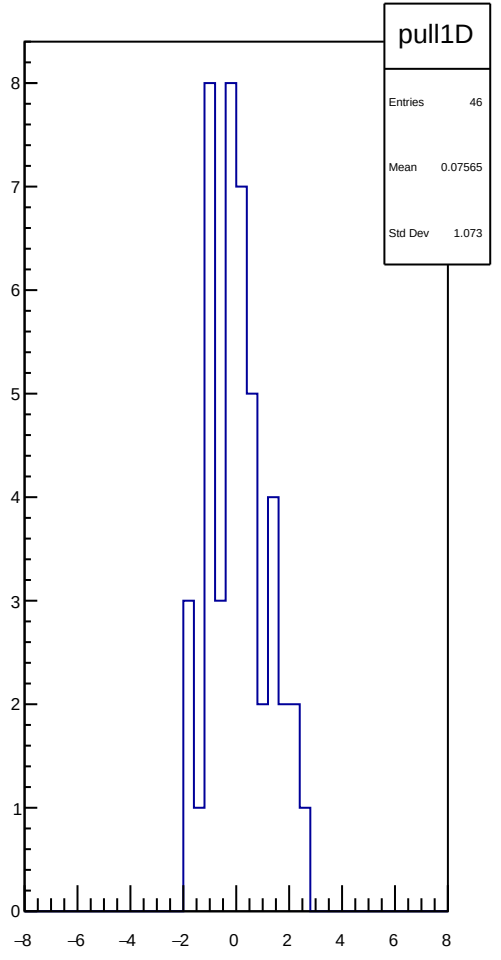

pull1D
Entries 46
Mean −0.09063
Std Dev 1.144

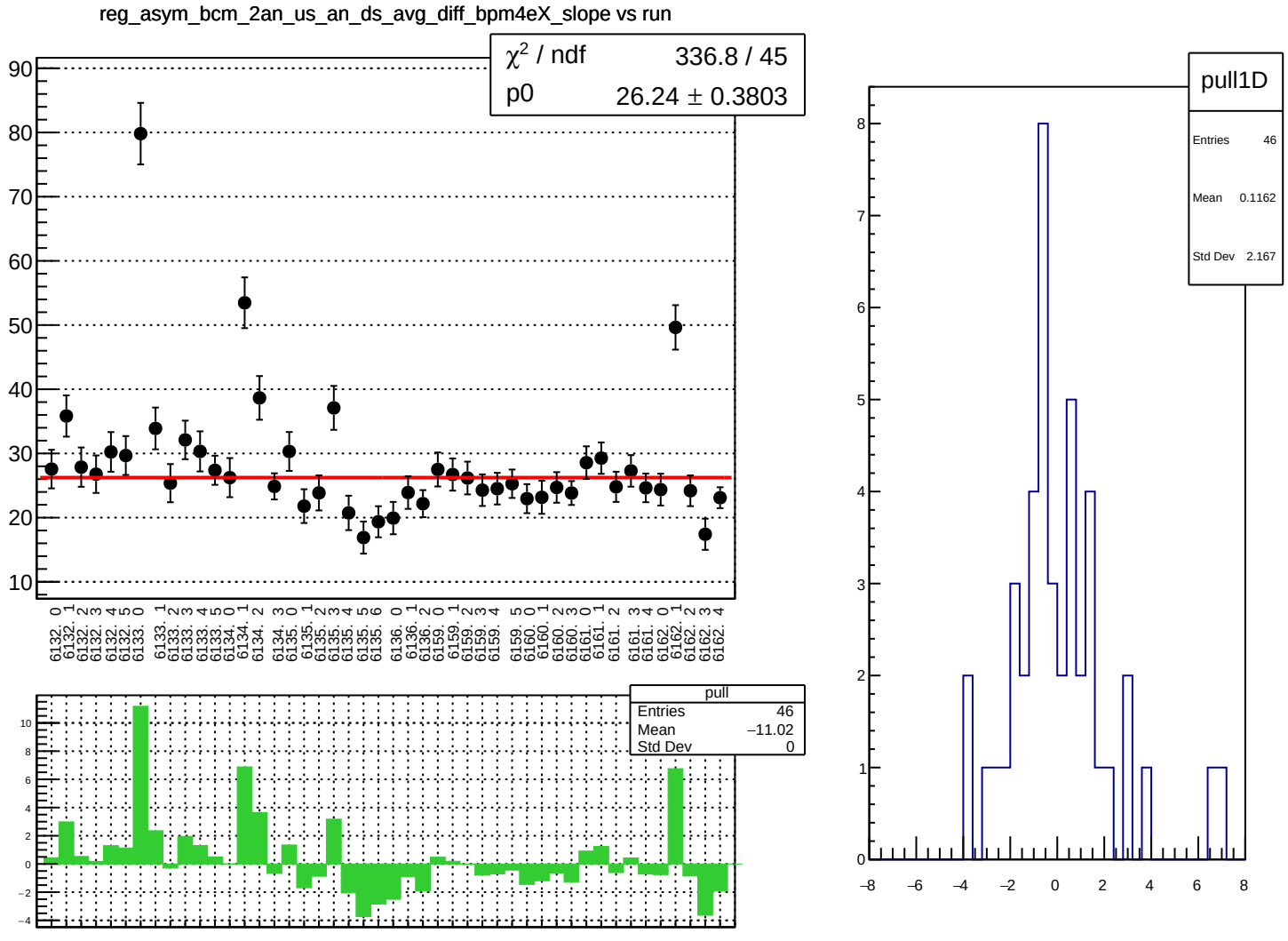

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 133.8 / 45
p0 −1.548 ± 0.03155
pull
Entries 46
Mean 2.792
Std Dev 16.61

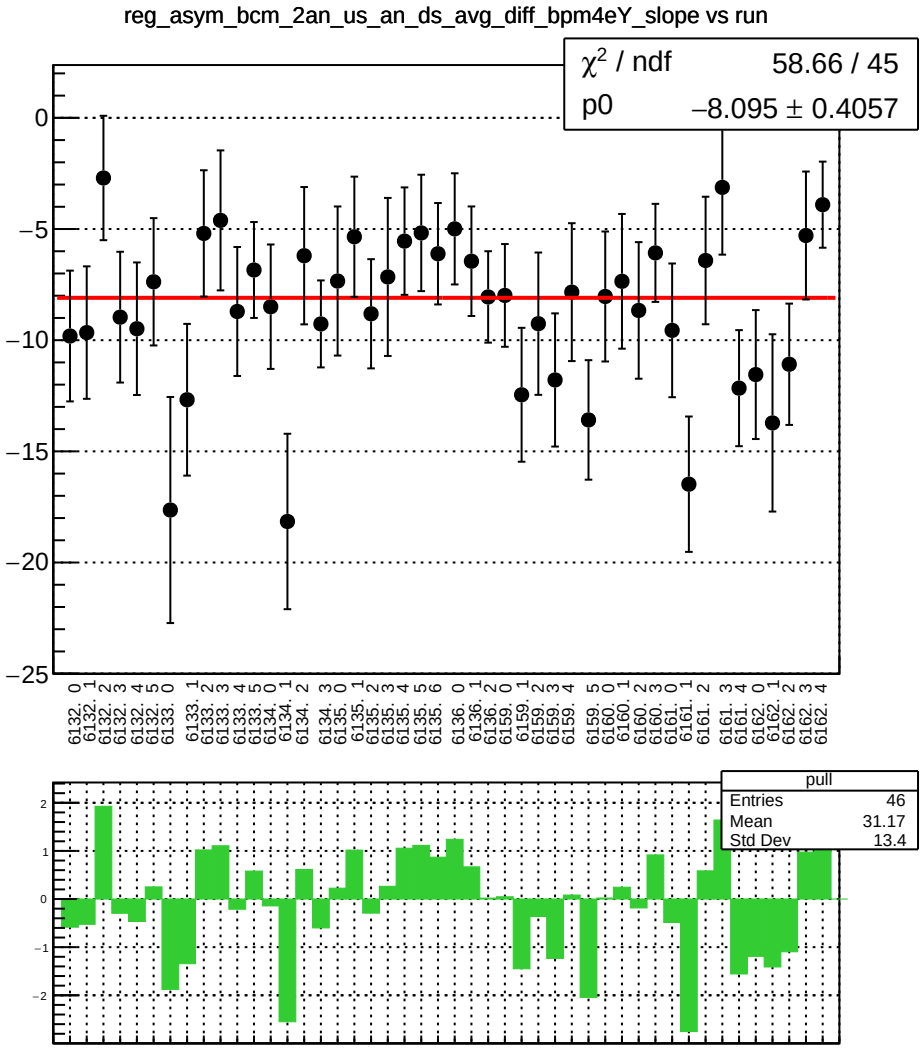

pull1D
Entries 46
Mean −0.1466
Std Dev 1.699

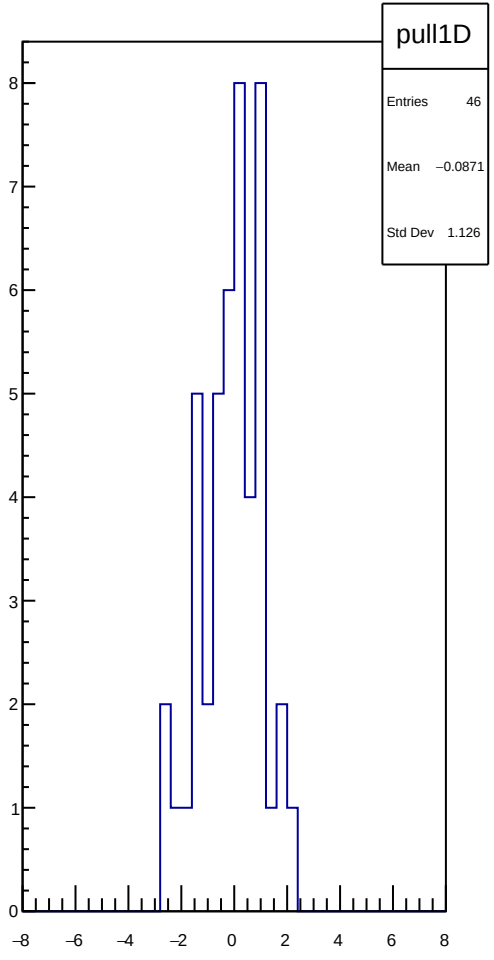

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 351.3 / 45
p0 −21.99 ± 0.3099
pull
Entries 46
Mean −14.42
Std Dev 0
pull1D
Entries 46
Mean −0.1295
Std Dev 2.226

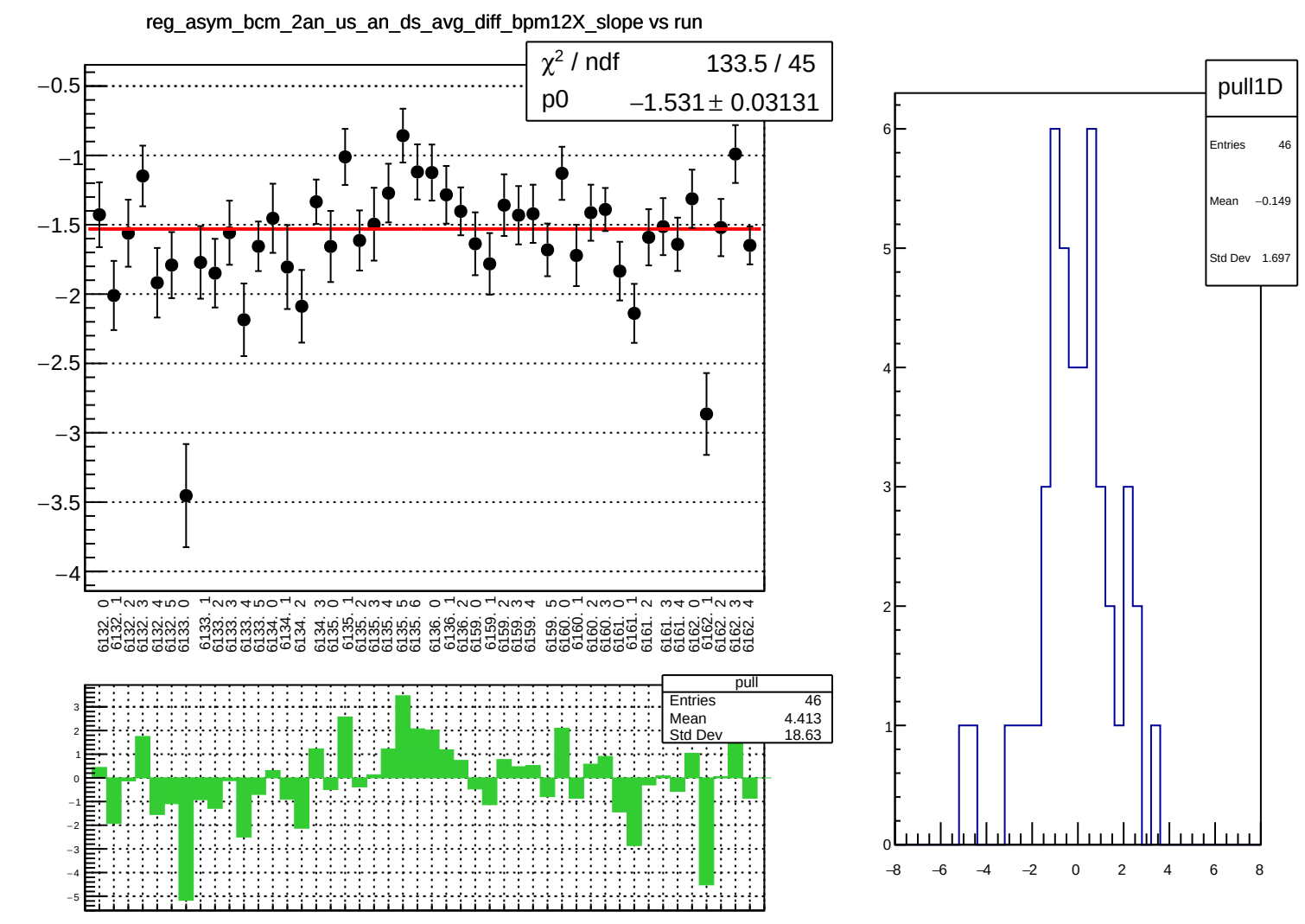

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 53.2 / 45
p0 6.625 ± 0.3784
pull
Entries 46
Mean 38.75
Std Dev 5.33

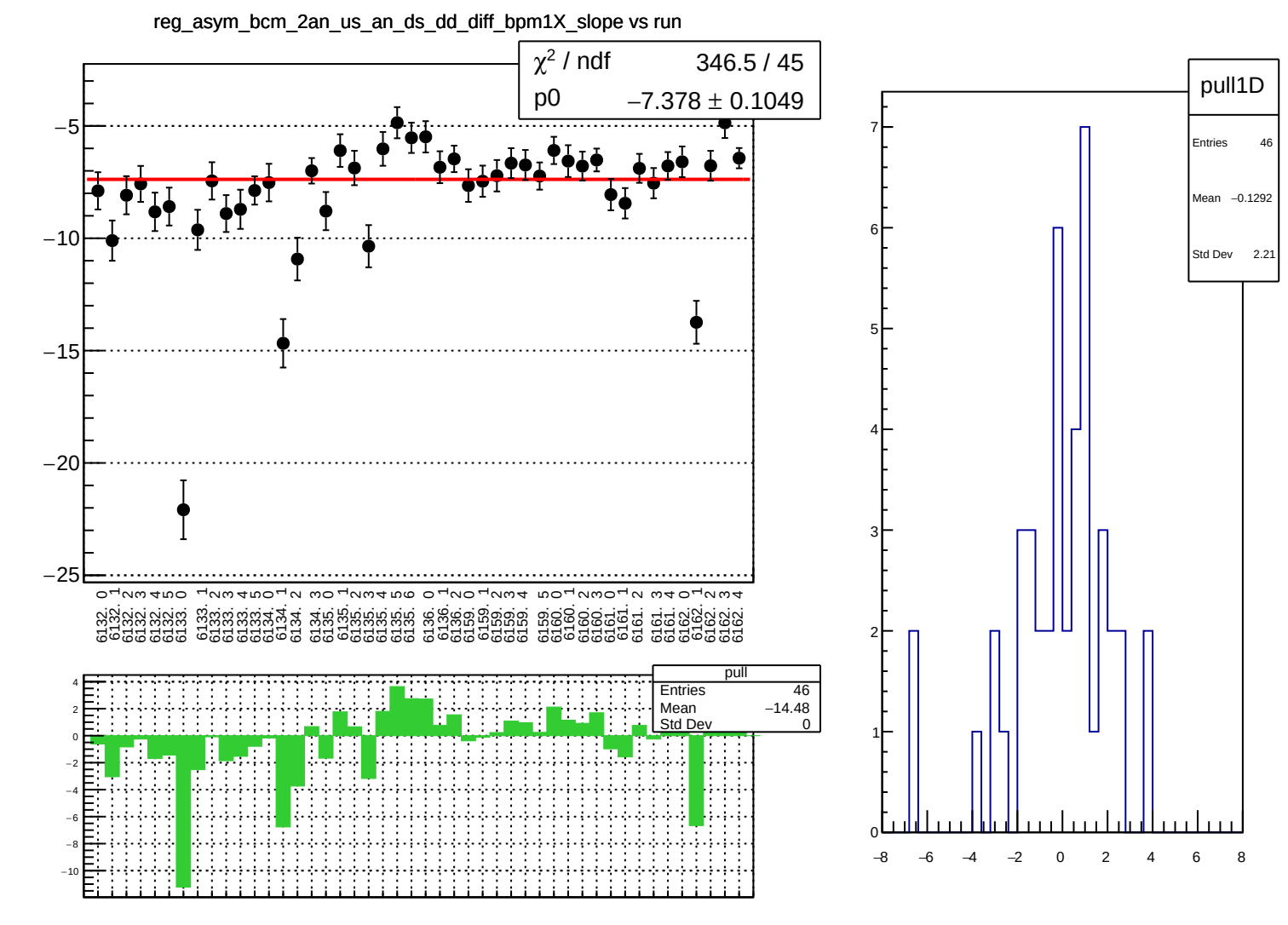

pull1D
Entries 46
Mean 0.07565
Std Dev 1.073

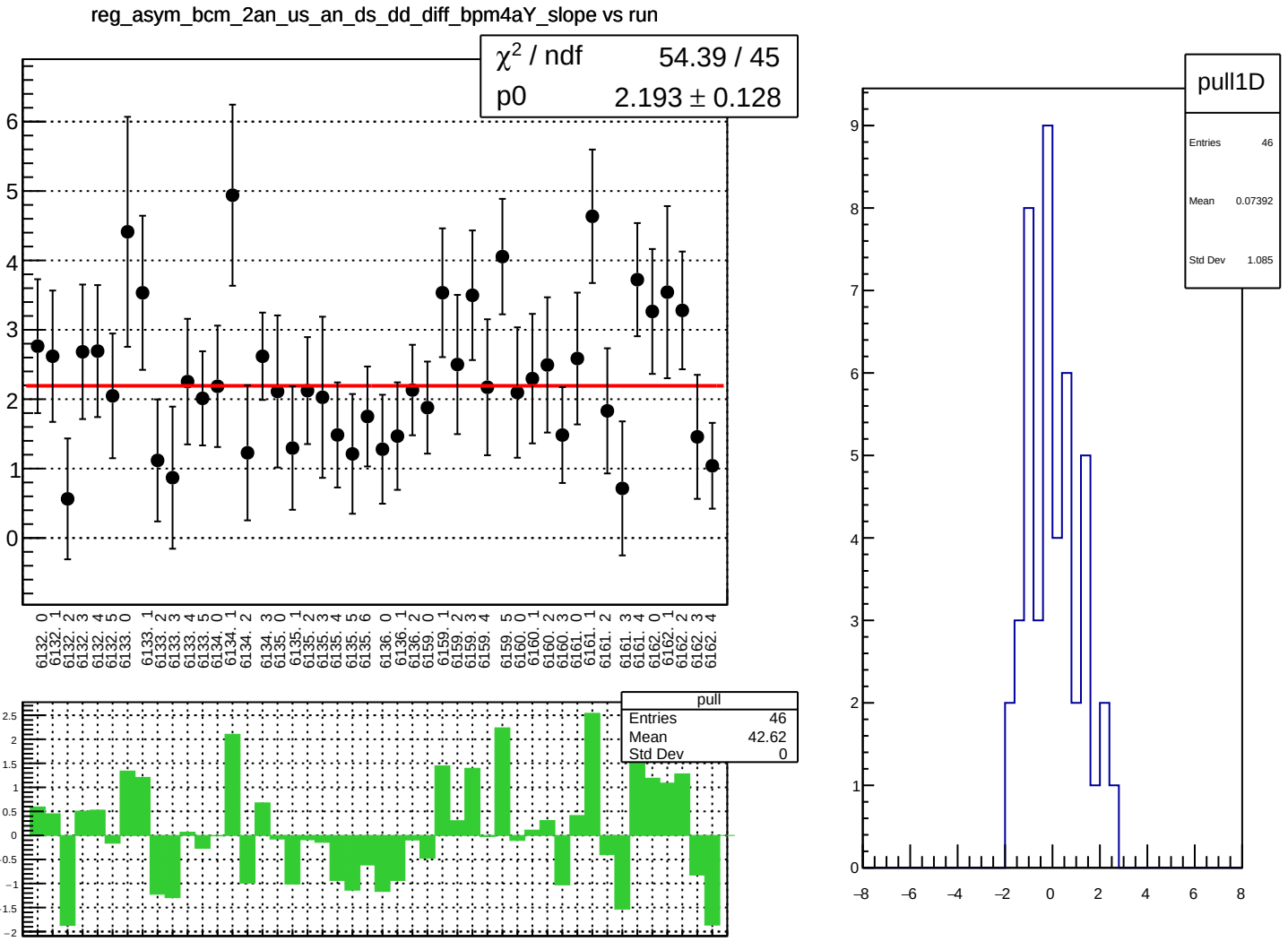

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 336.8 / 45
p0 26.24 ± 0.3803
pull
Entries 46
Mean −11.02
Std Dev 0
pull1D
Entries 46
Mean 0.1162
Std Dev 2.167

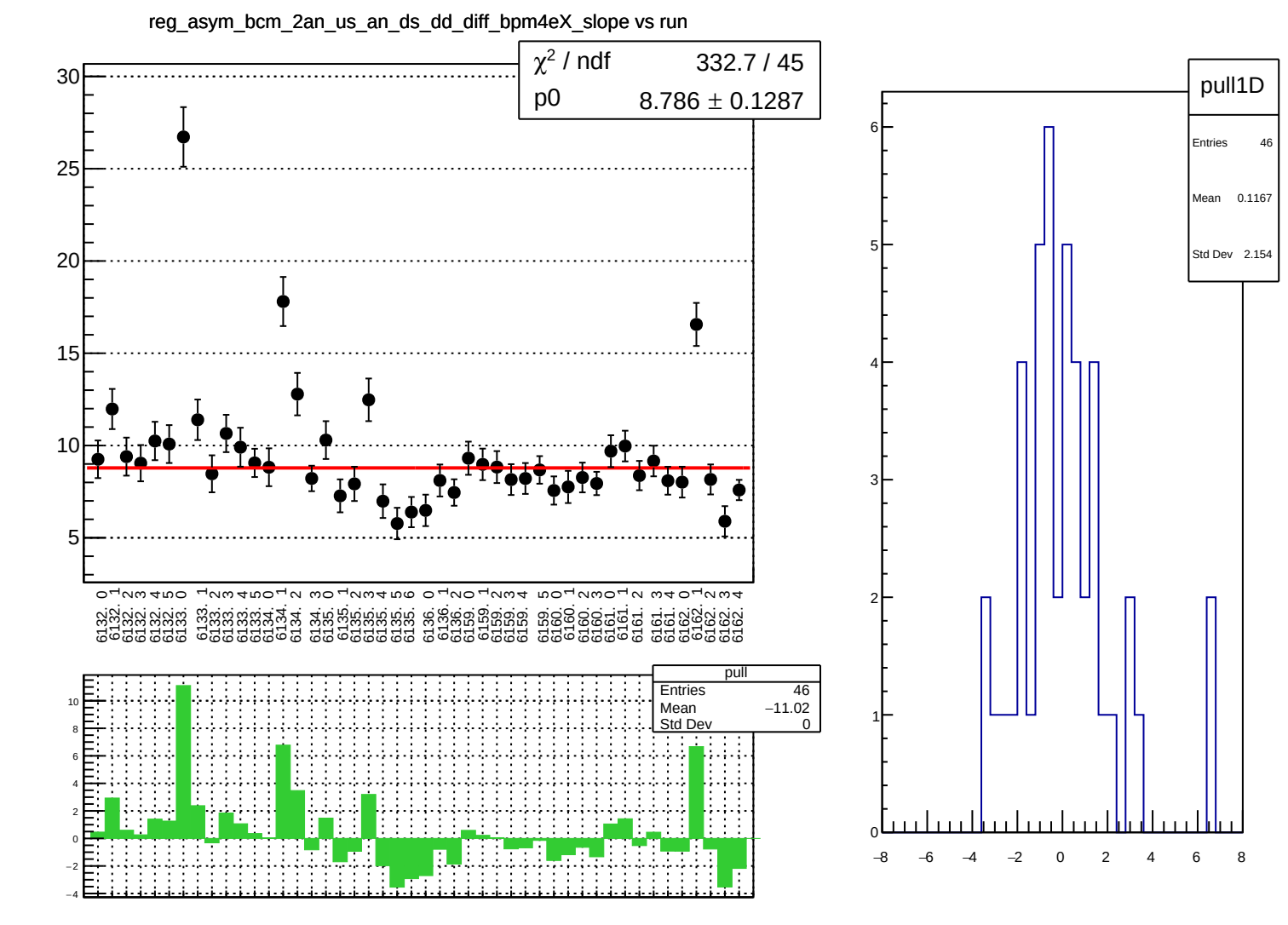

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.66 / 45
p0 −8.095 ± 0.4057
pull
Entries 46
Mean 31.17
Std Dev 13.4

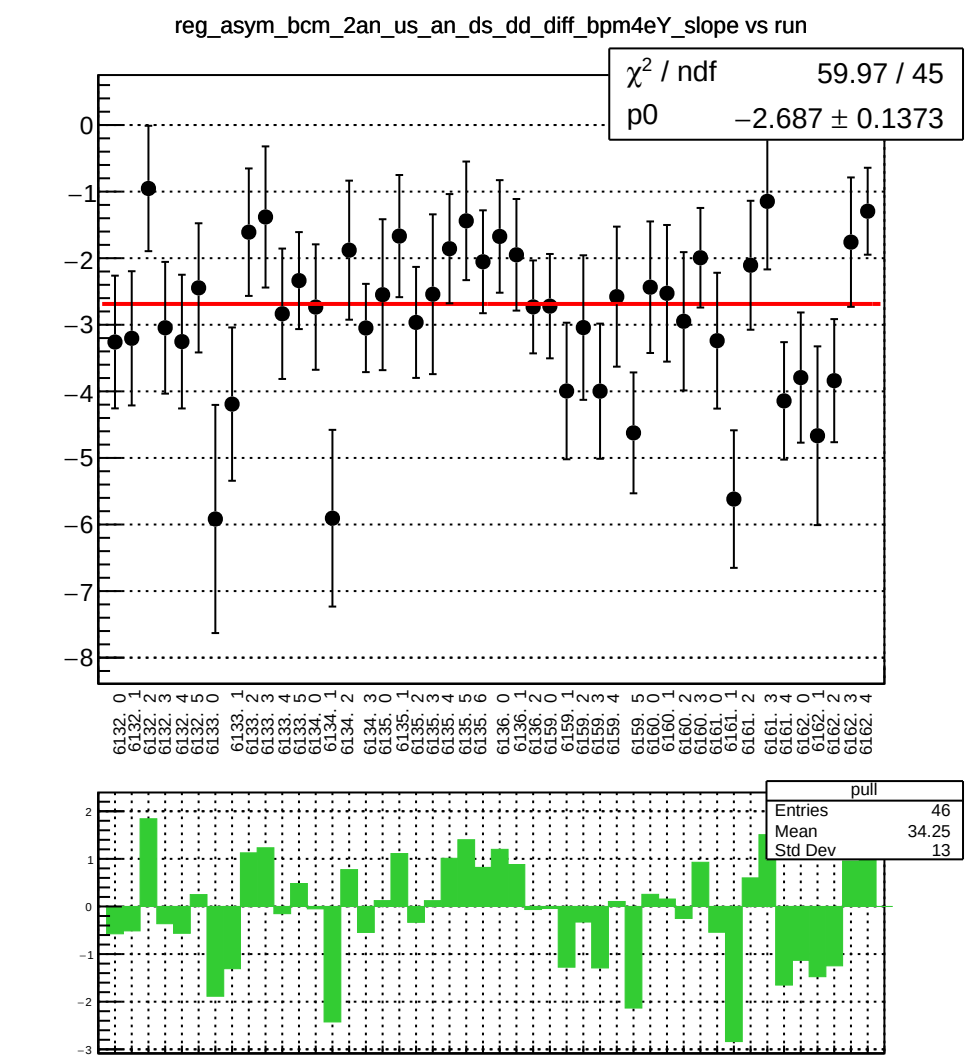

pull1D
Entries 46
Mean −0.0871
Std Dev 1.126

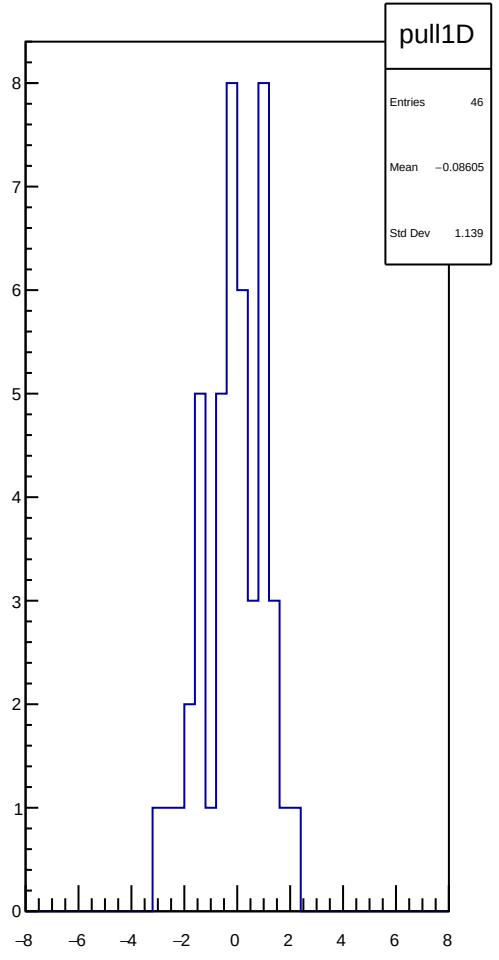

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 133.5 / 45
p0 −1.531 ± 0.03131
pull
Entries 46
Mean 4.413
Std Dev 18.63
pull1D
Entries 46
Mean −0.149
Std Dev 1.697

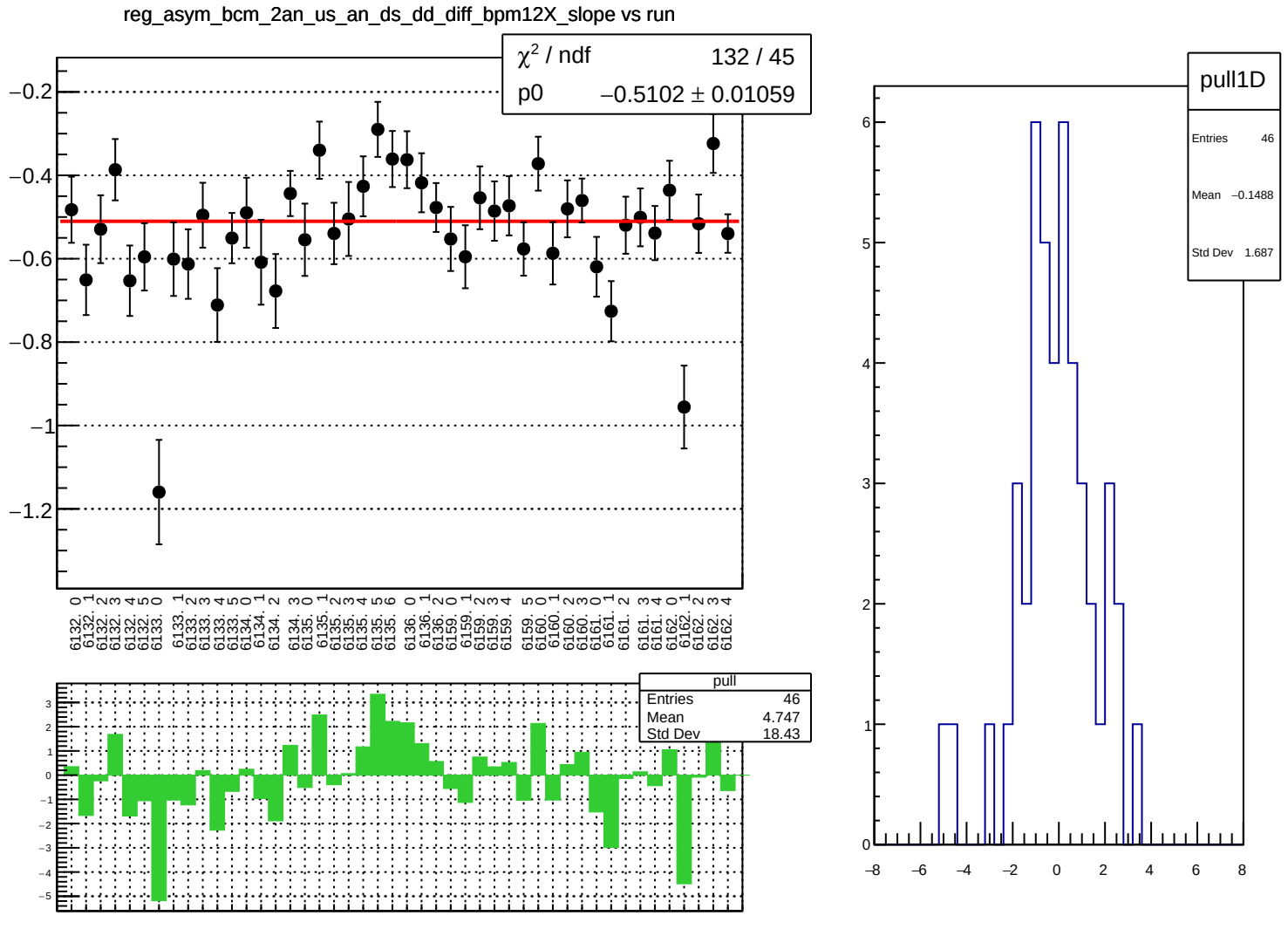

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 346.5 / 45
p0 −7.378 ± 0.1049
pull
Entries 46
Mean −14.48
Std Dev 0
pull1D
Entries 46
Mean −0.1292
Std Dev 2.21

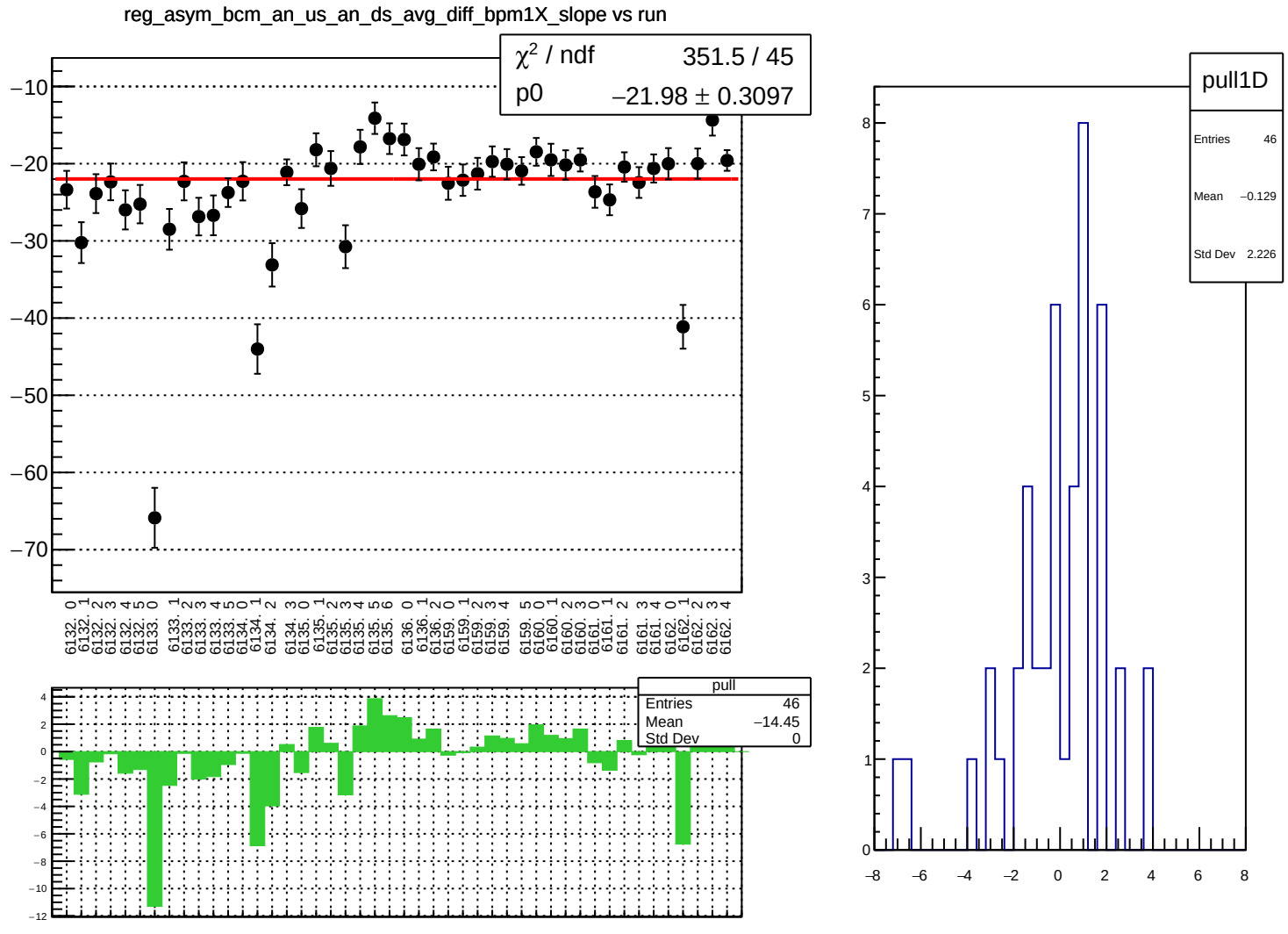

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 54.39 / 45
p0 2.193 ± 0.128
pull
Entries 46
Mean 42.62
Std Dev 0
pull1D
Entries 46
Mean 0.07392
Std Dev 1.085

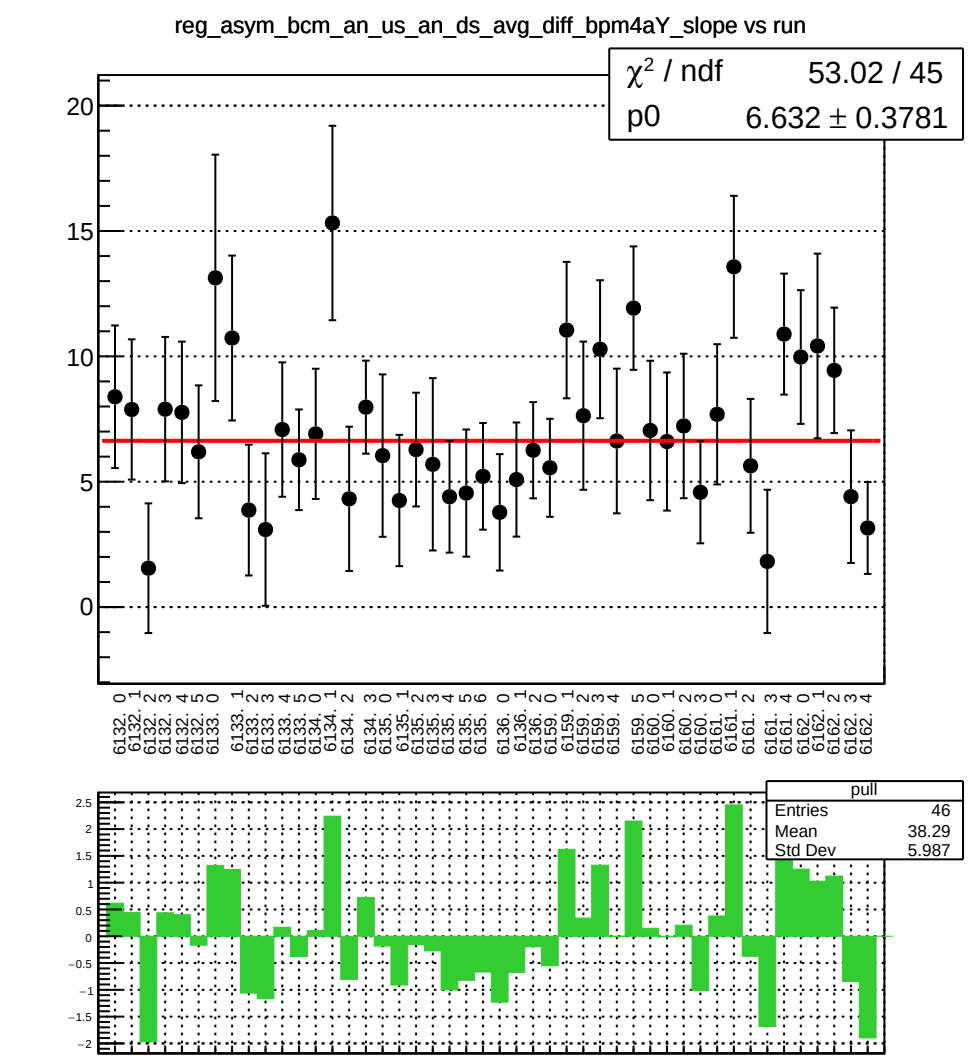

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 332.7 / 45
p0 8.786 ± 0.1287
pull
Entries 46
Mean −11.02
Std Dev 0
pull1D
Entries 46
Mean 0.1167
Std Dev 2.154

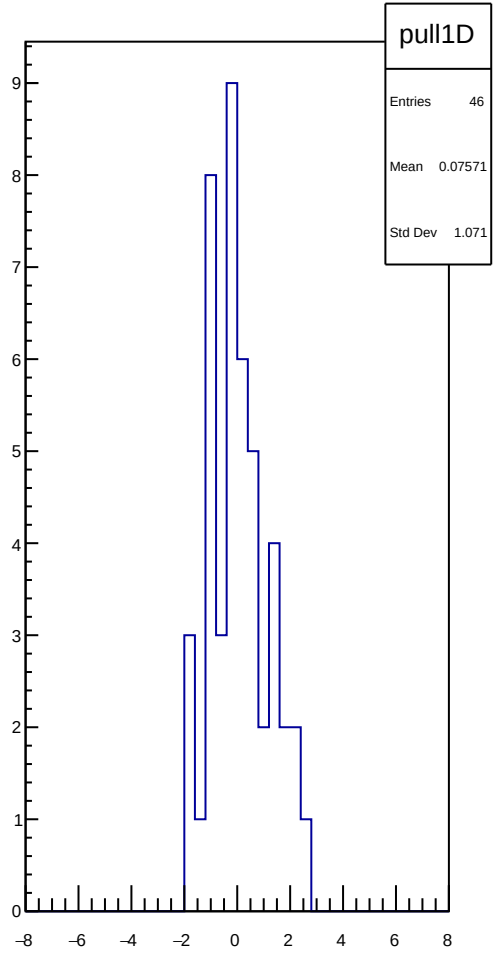

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.97 / 45
p0 −2.687 ± 0.1373
pull
Entries 46
Mean 34.25
Std Dev 13

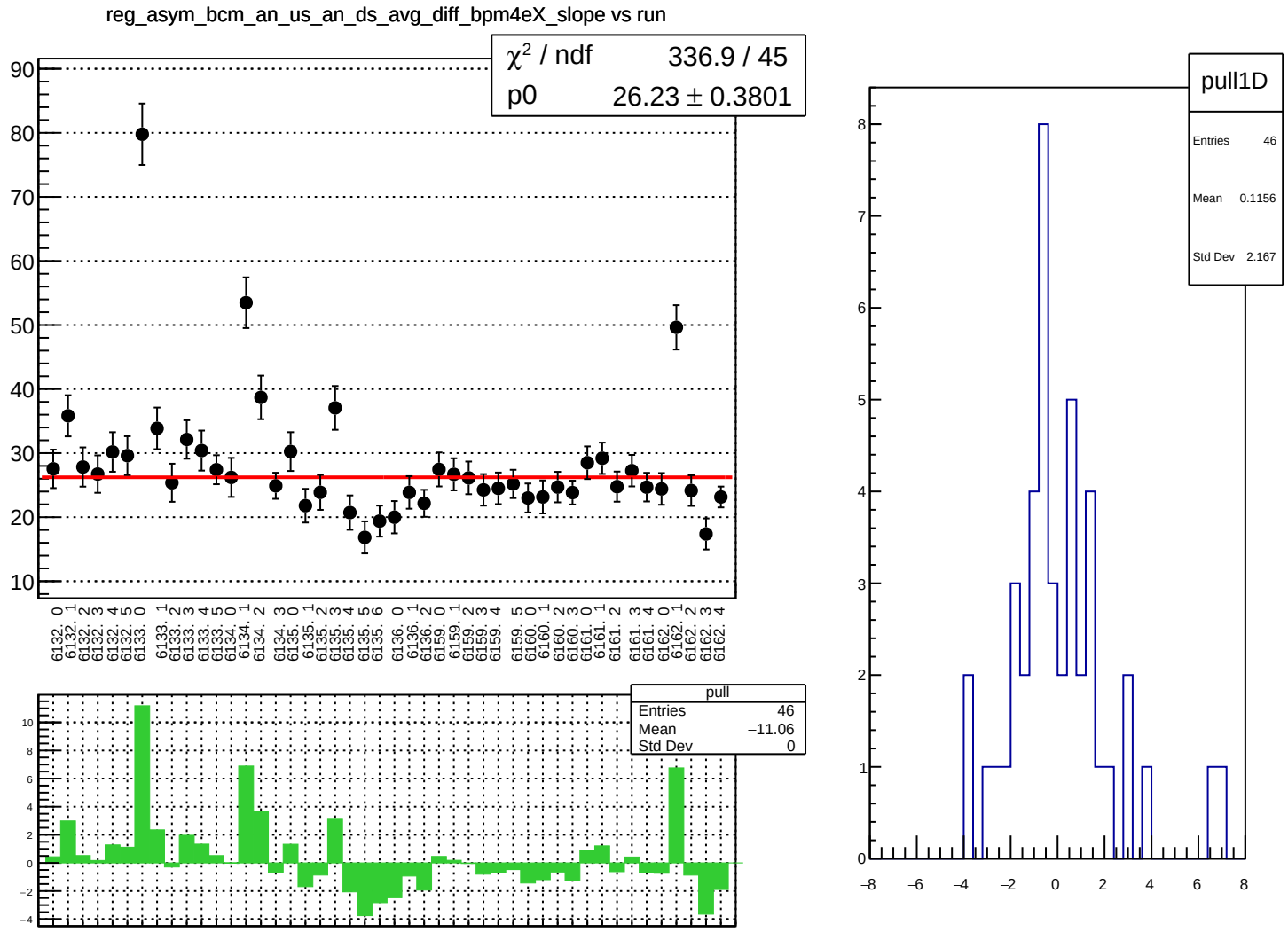

pull1D
Entries 46
Mean −0.08605
Std Dev 1.139

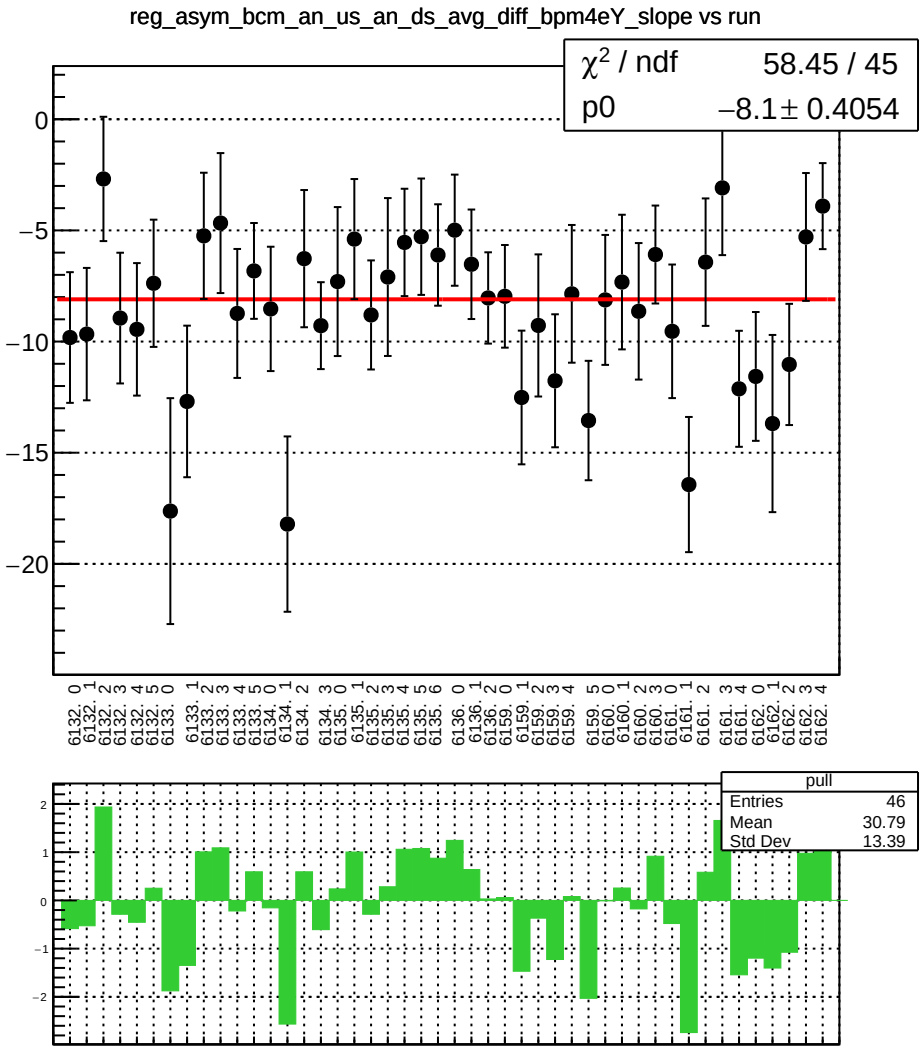

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 132 / 45
p0 −0.5102 ± 0.01059
pull
Entries 46
Mean 4.747
Std Dev 18.43
pull1D
Entries 46
Mean −0.1488
Std Dev 1.687

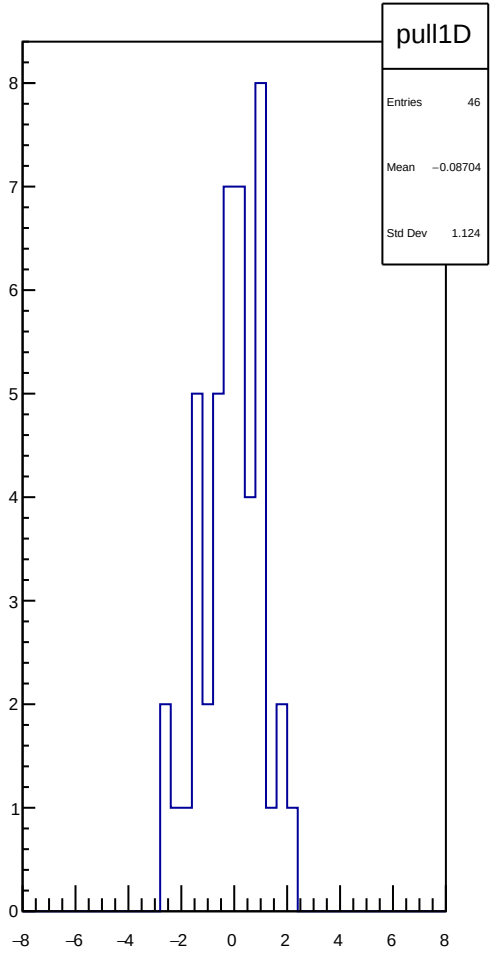

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 351.5 / 45
p0 −21.98 ± 0.3097
pull
Entries 46
Mean −14.45
Std Dev 0
pull1D
Entries 46
Mean −0.129
Std Dev 2.226

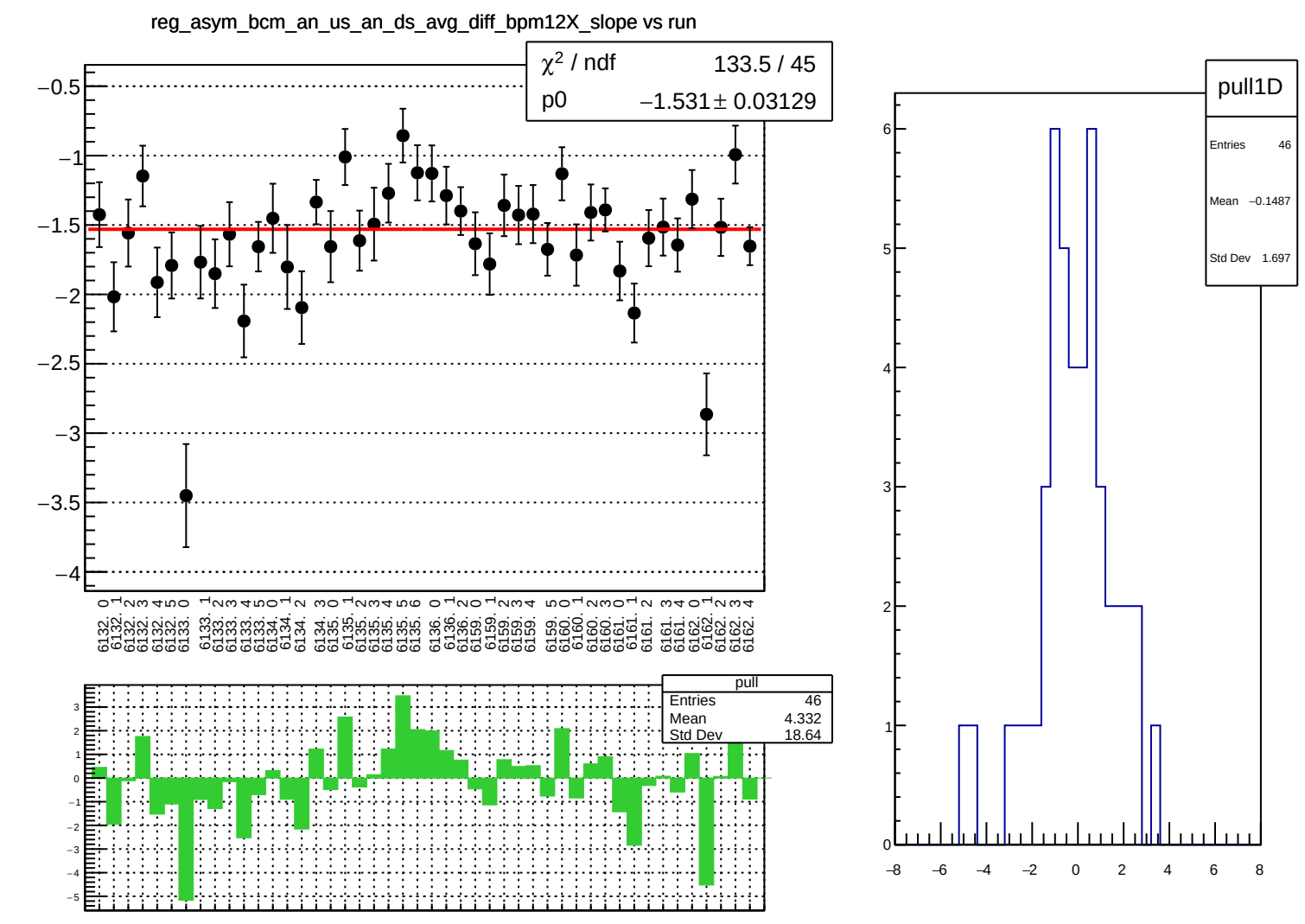

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 53.02 / 45
p0 6.632 ± 0.3781
pull
Entries 46
Mean 38.29
Std Dev 5.987

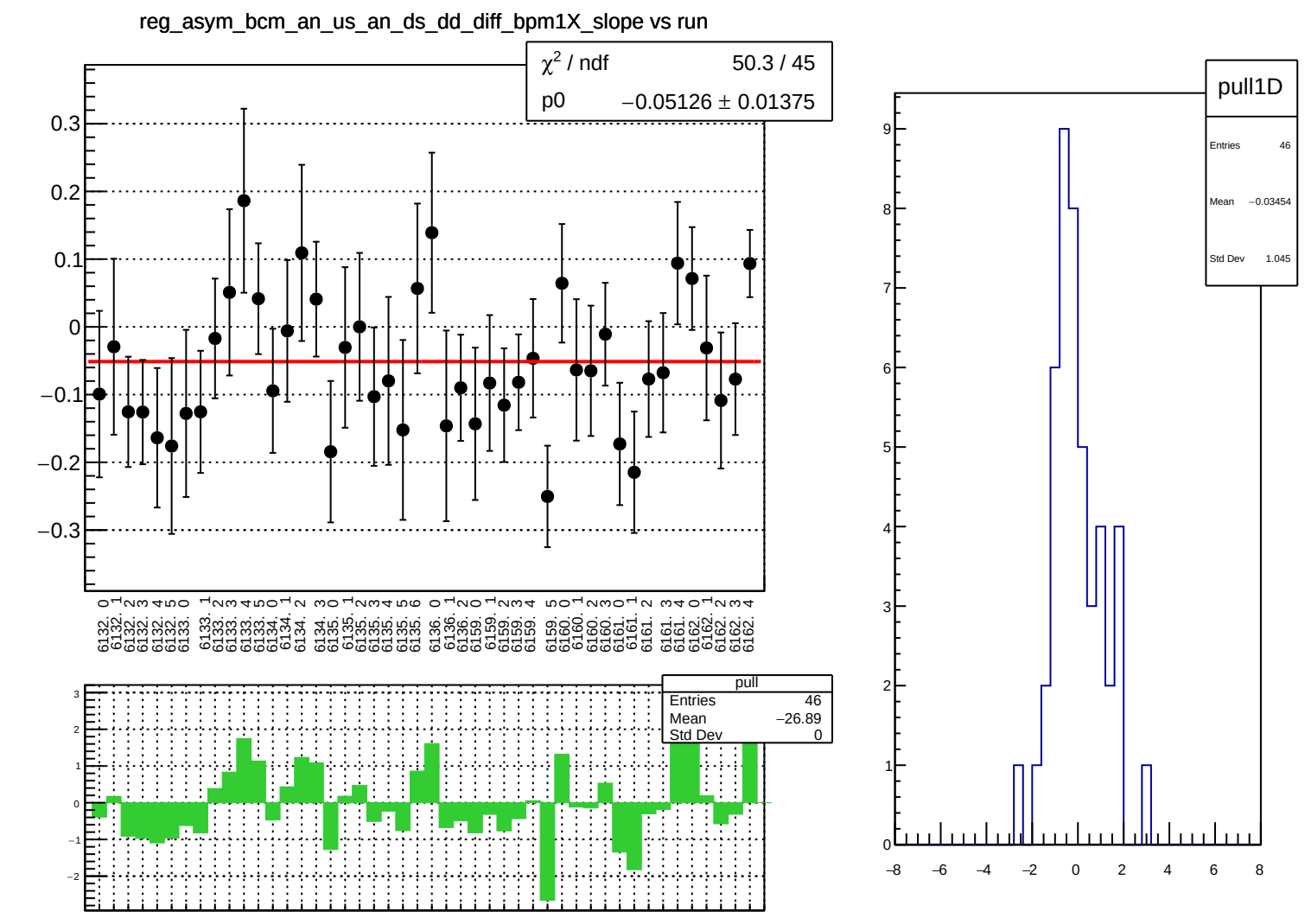

pull1D
Entries 46
Mean 0.07571
Std Dev 1.071

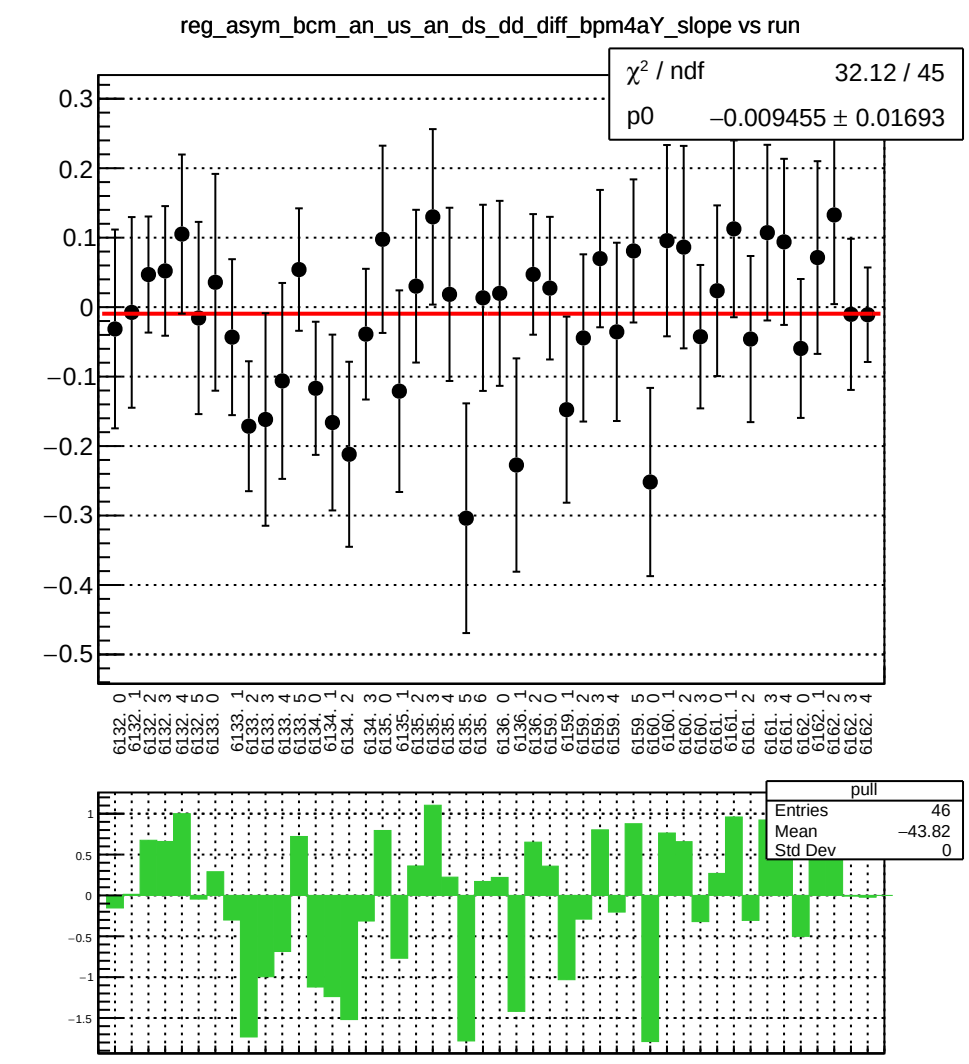

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 336.9 / 45
p0 26.23 ± 0.3801
pull
Entries 46
Mean −11.06
Std Dev 0
pull1D
Entries 46
Mean 0.1156
Std Dev 2.167

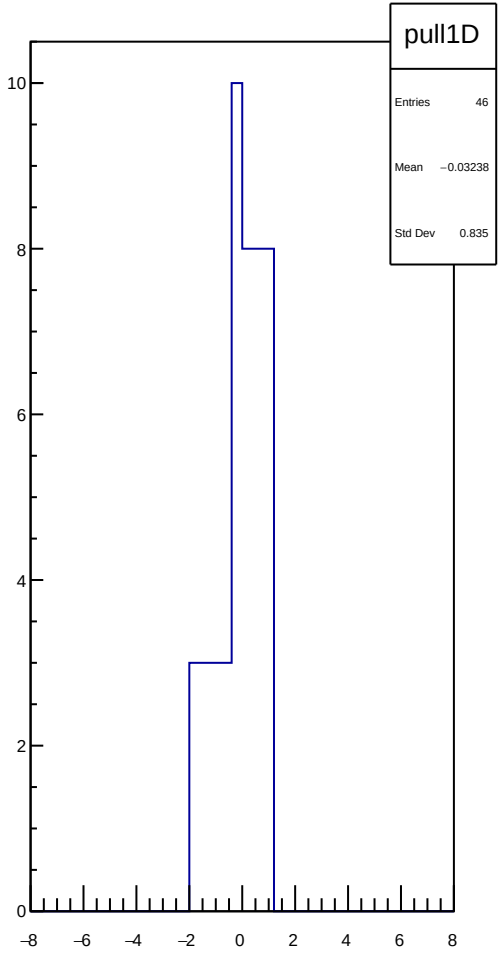

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.45 / 45
p0 −8.1 ± 0.4054
pull
Entries 46
Mean 30.79
Std Dev 13.39

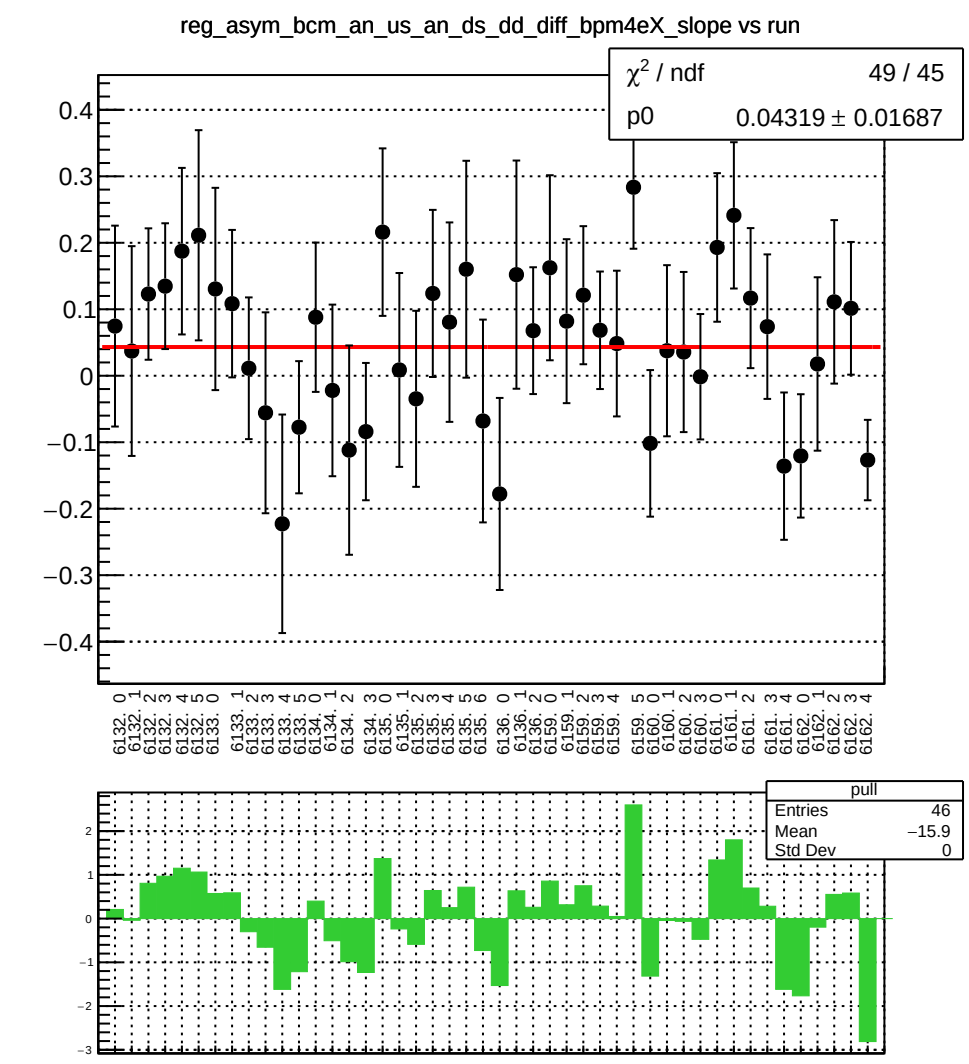

pull1D
Entries 46
Mean −0.08704
Std Dev 1.124

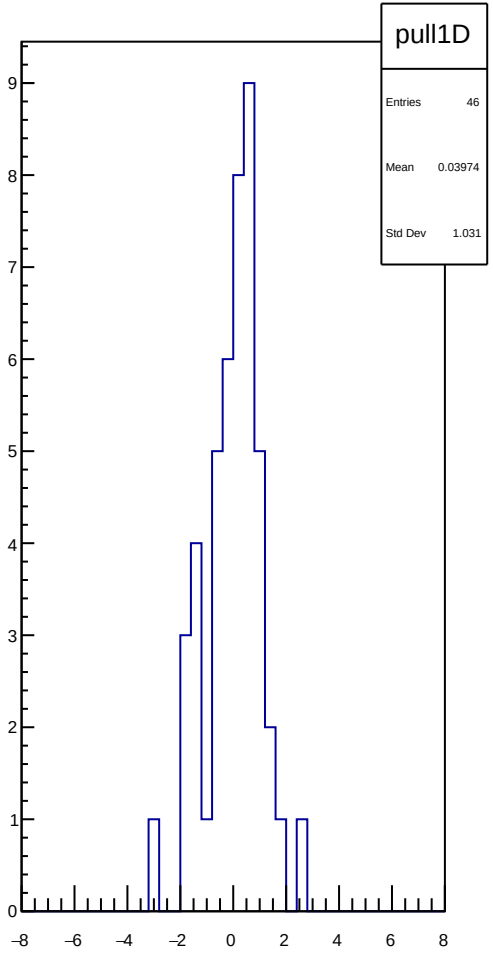

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 133.5 / 45
p0 −1.531 ± 0.03129
pull
Entries 46
Mean 4.332
Std Dev 18.64
pull1D
Entries 46
Mean −0.1487
Std Dev 1.697

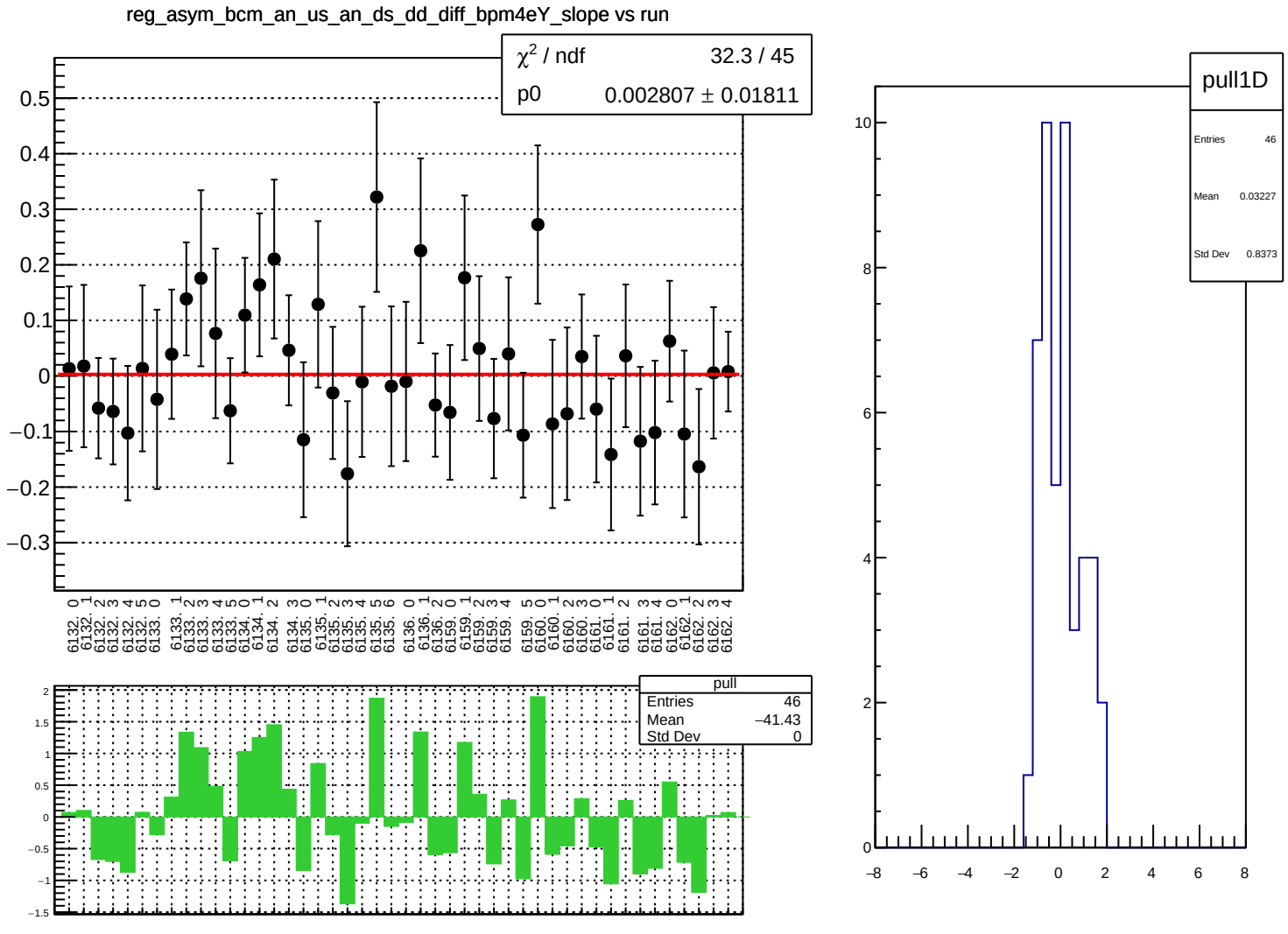

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 50.3 / 45
p0 −0.05126 ± 0.01375
pull
Entries 46
Mean −26.89
Std Dev 0
pull1D
Entries 46
Mean −0.03454
Std Dev 1.045

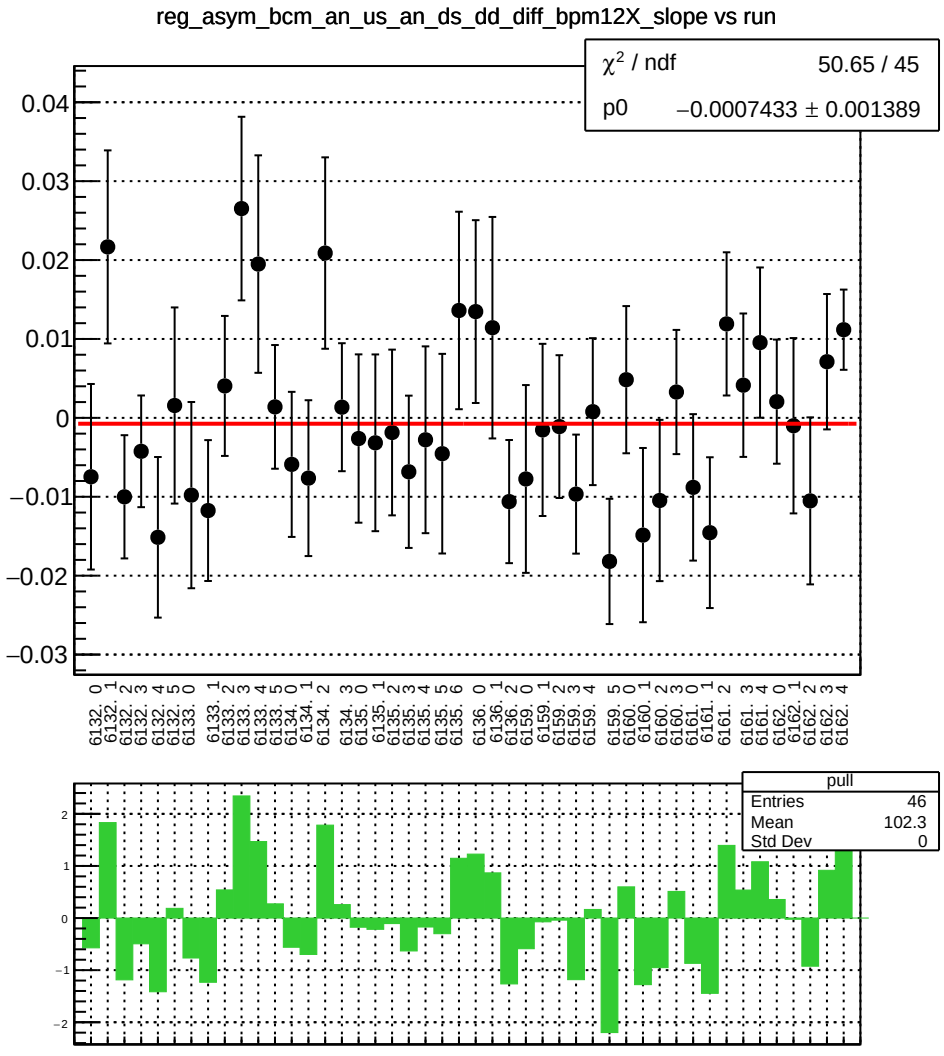

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.12 / 45
p0 −0.009455 ± 0.01693
pull
Entries 46
Mean −43.82
Std Dev 0

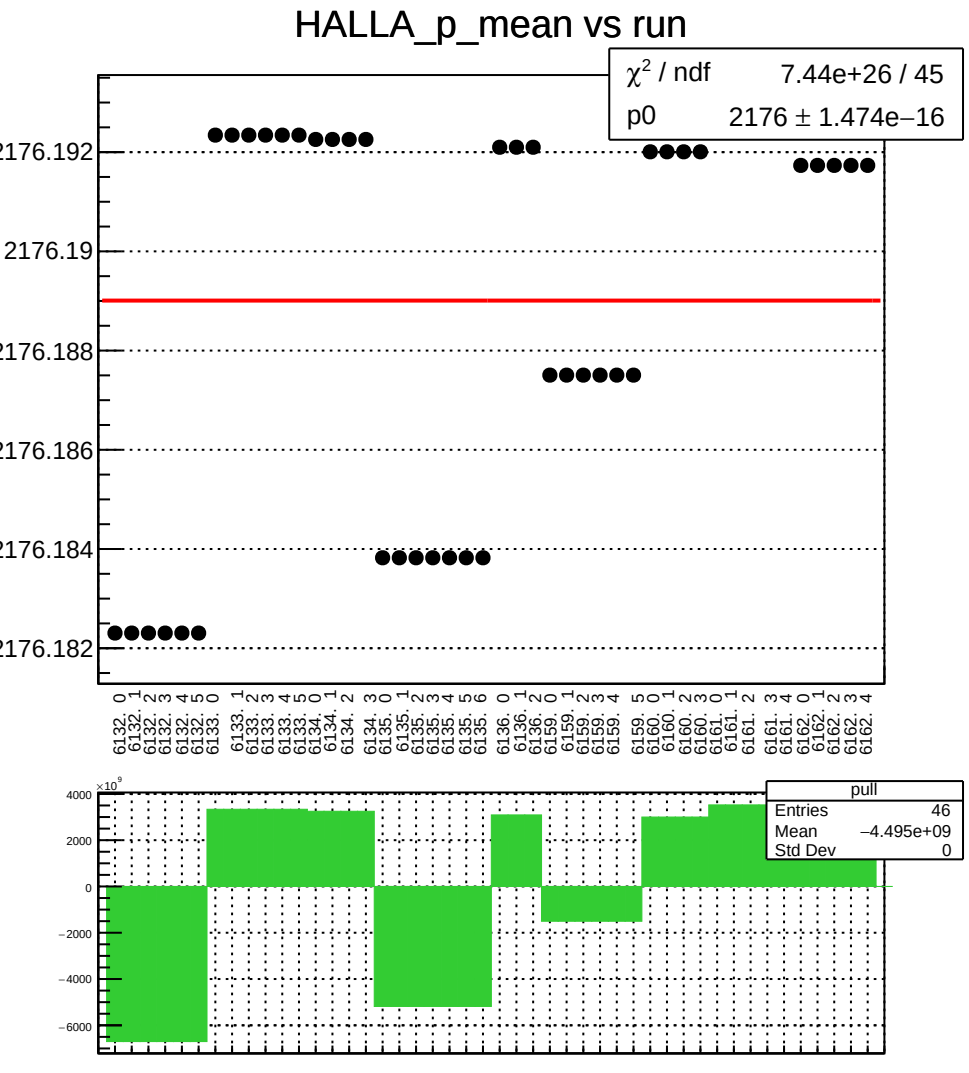

pull1D
Entries 46
Mean −0.03238
Std Dev 0.835

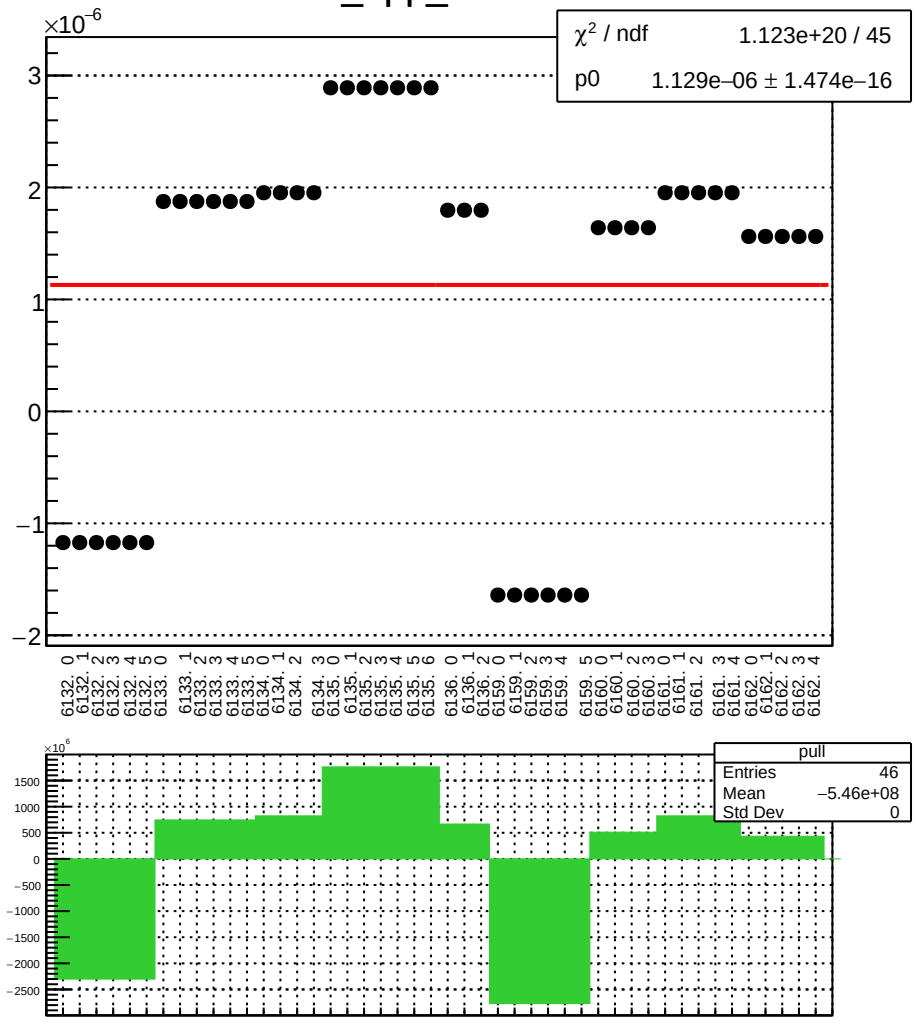

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 49 / 45
p0 0.04319 ± 0.01687
pull
Entries 46
Mean −15.9
Std Dev 0

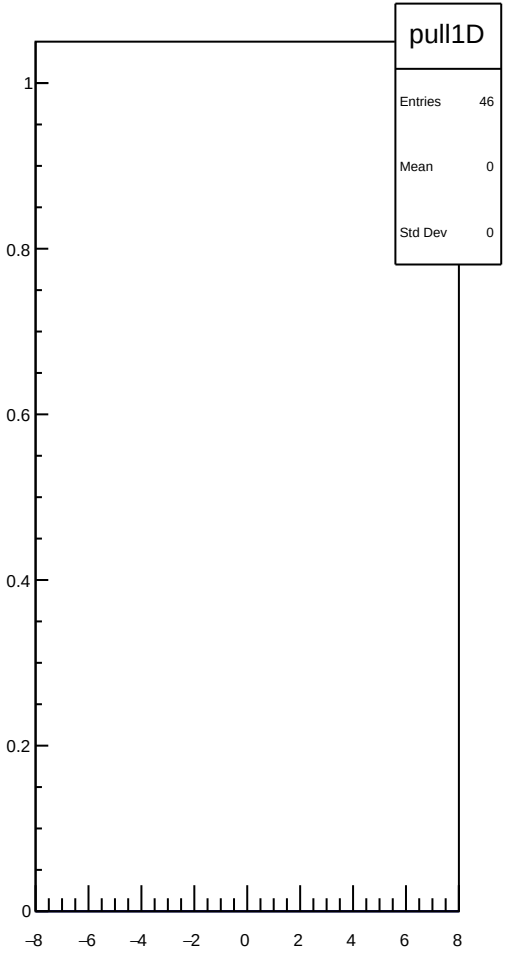

pull1D
Entries 46
Mean 0.03974
Std Dev 1.031

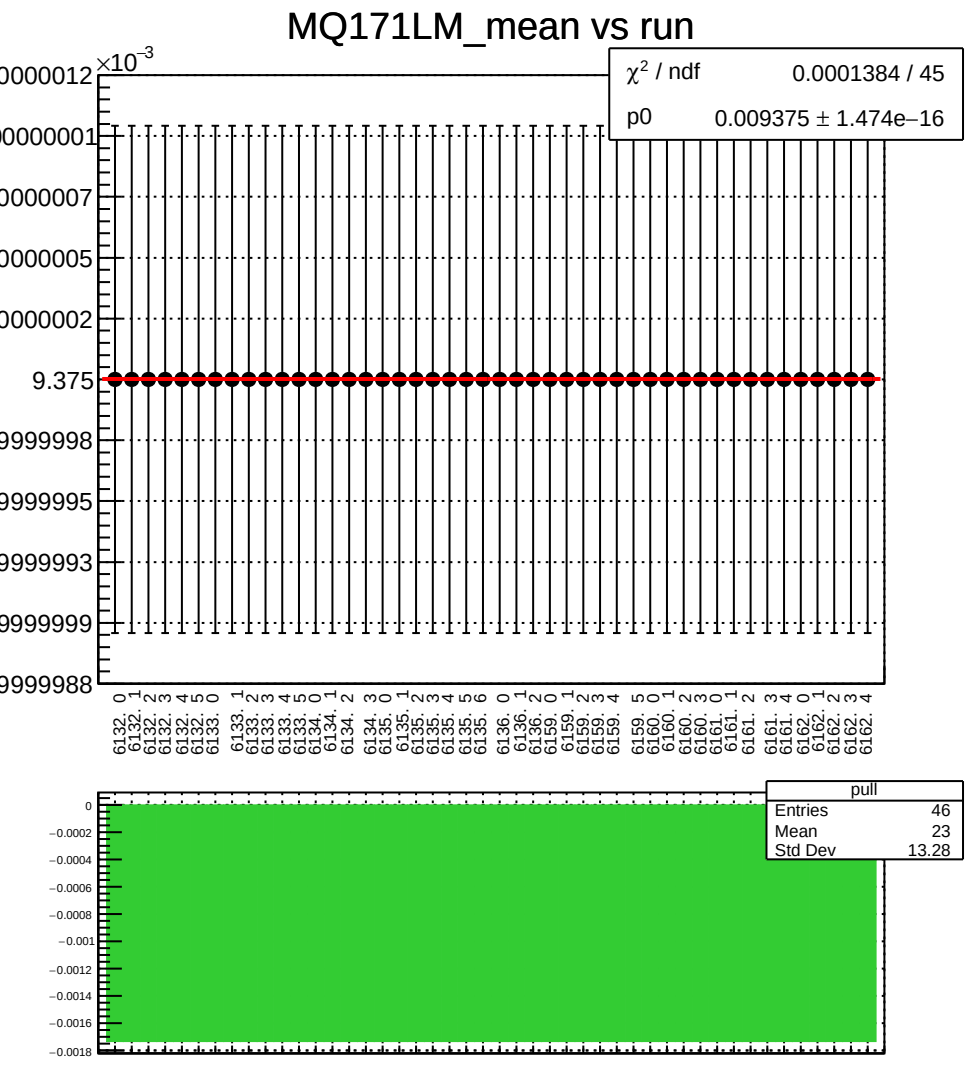

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.3 / 45
p0 0.002807 ± 0.01811
pull
Entries 46
Mean −41.43
Std Dev 0
pull1D
Entries 46
Mean 0.03227
Std Dev 0.8373

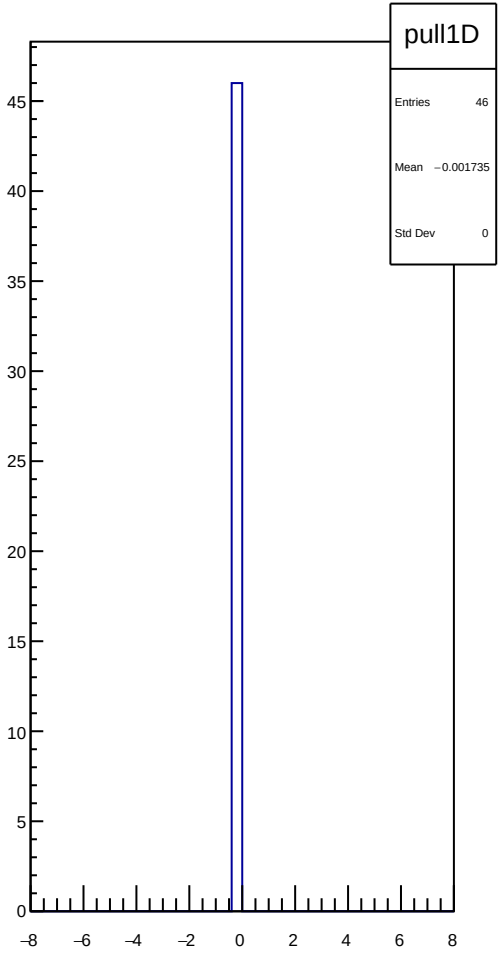

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 50.65 / 45
p0 −0.0007433 ± 0.001389
pull
Entries 46
Mean 102.3
Std Dev 0
pull1D
Entries 46
Mean 0.01013
Std Dev 1.049

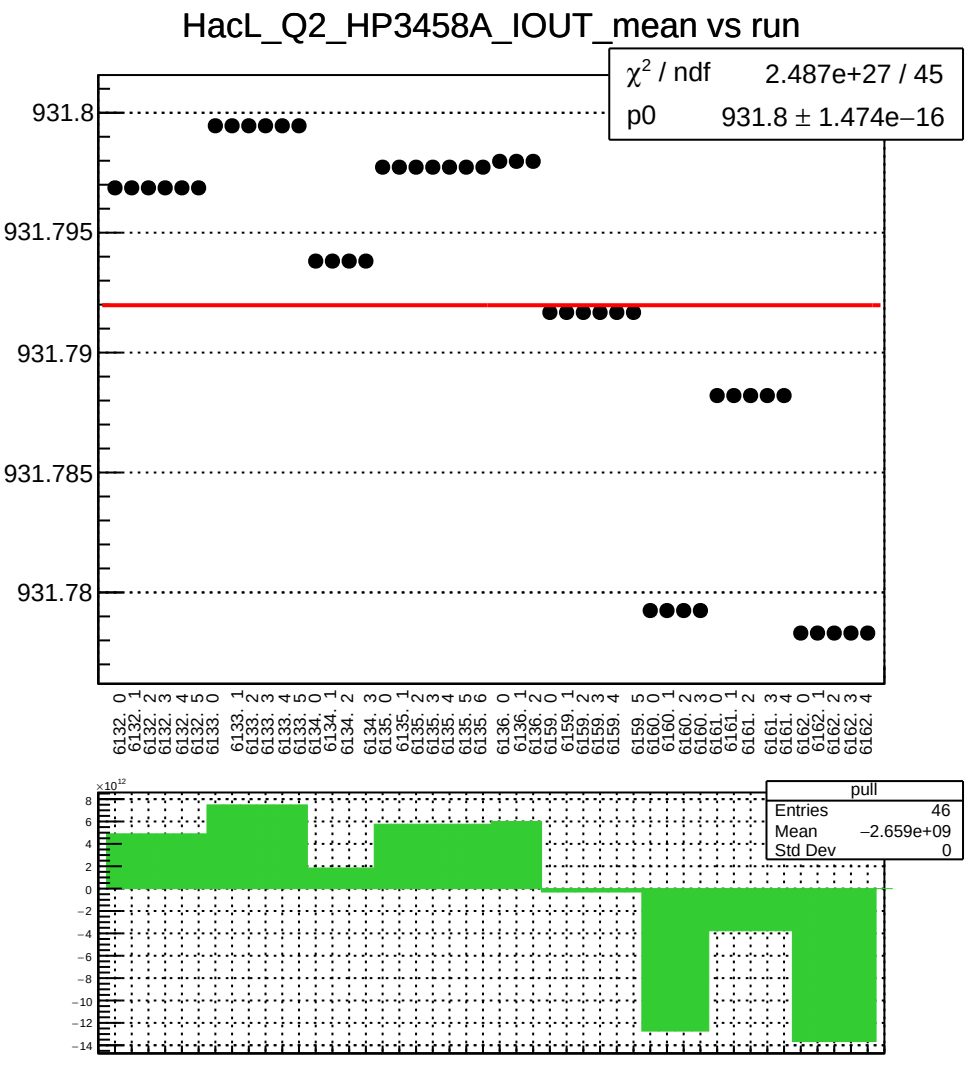

HALLA_p_mean vs run
χ² / ndf 7.44e+26 / 45
p0 2176 ± 1.474e−16
2176.192
2176.19
2176.188
2176.186
2176.184
2176.182
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
×10⁹
4000
2000
0
−2000
−4000
−6000
pull
Entries 46
Mean −4.495e+09
Std Dev 0
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

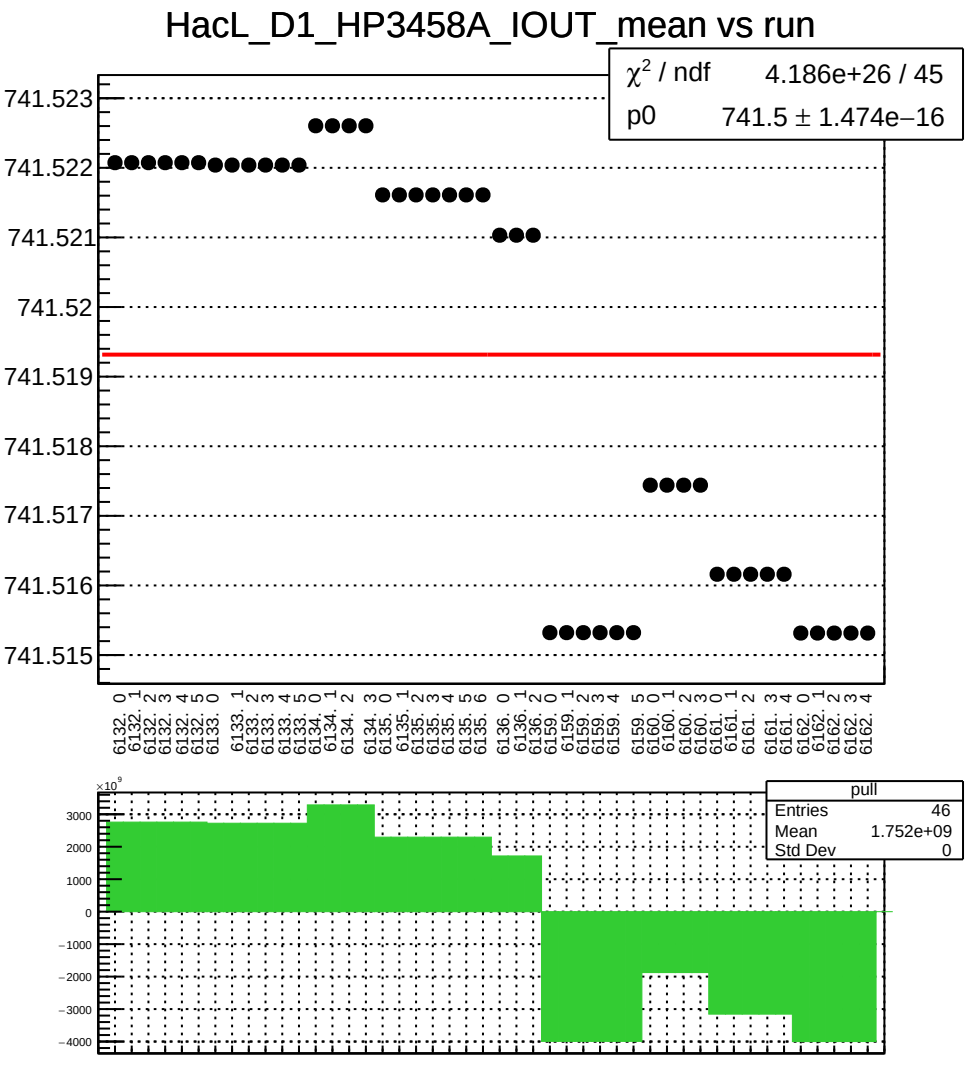

HALLA_dpp_mean vs run
×10⁻⁶
χ² / ndf 1.123e+20 / 45
p0 1.129e−06 ± 1.474e−16
3
2
1
0
−1
−2
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
×10⁶
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
pull
Entries 46
Mean −5.46e+08
Std Dev 0

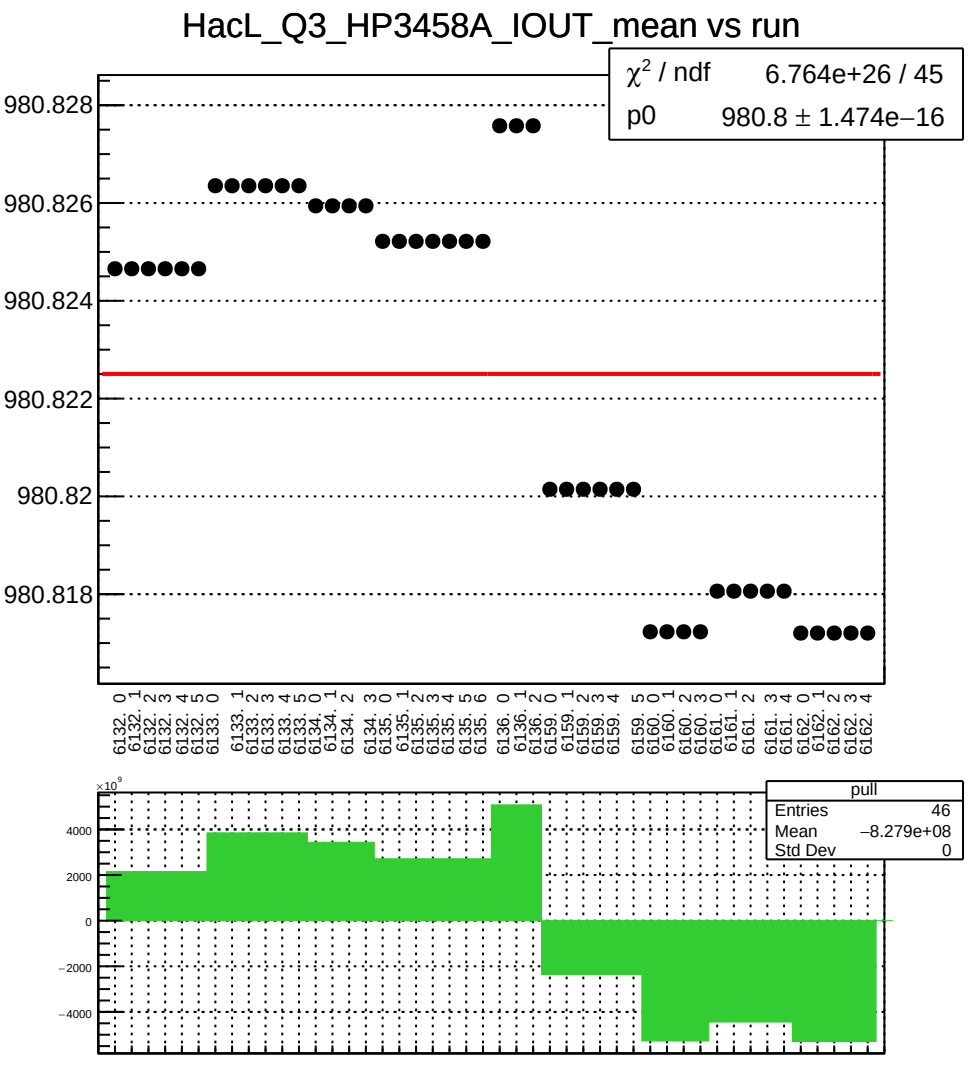

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

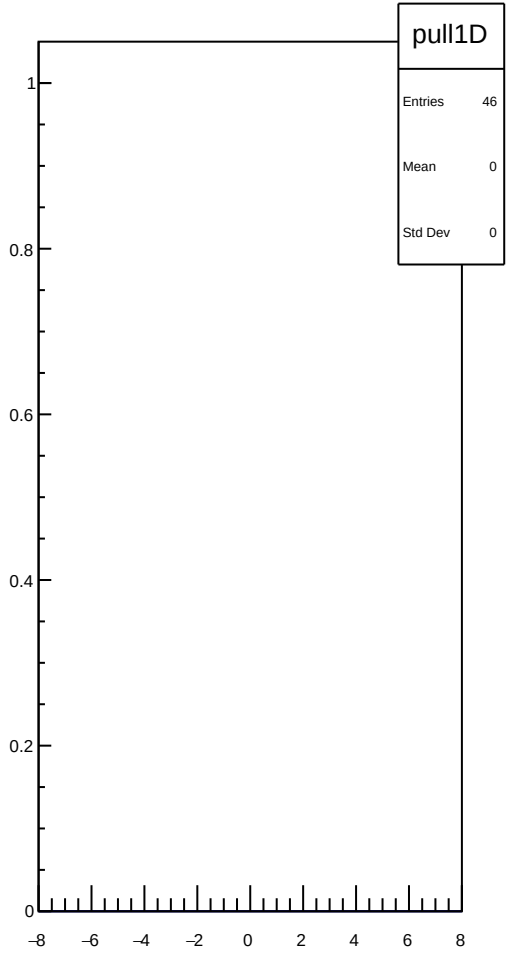

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.0001384 / 45
p0 0.009375 ± 1.474e−16
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 23
Std Dev 13.28
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
−0.0016
−0.0018

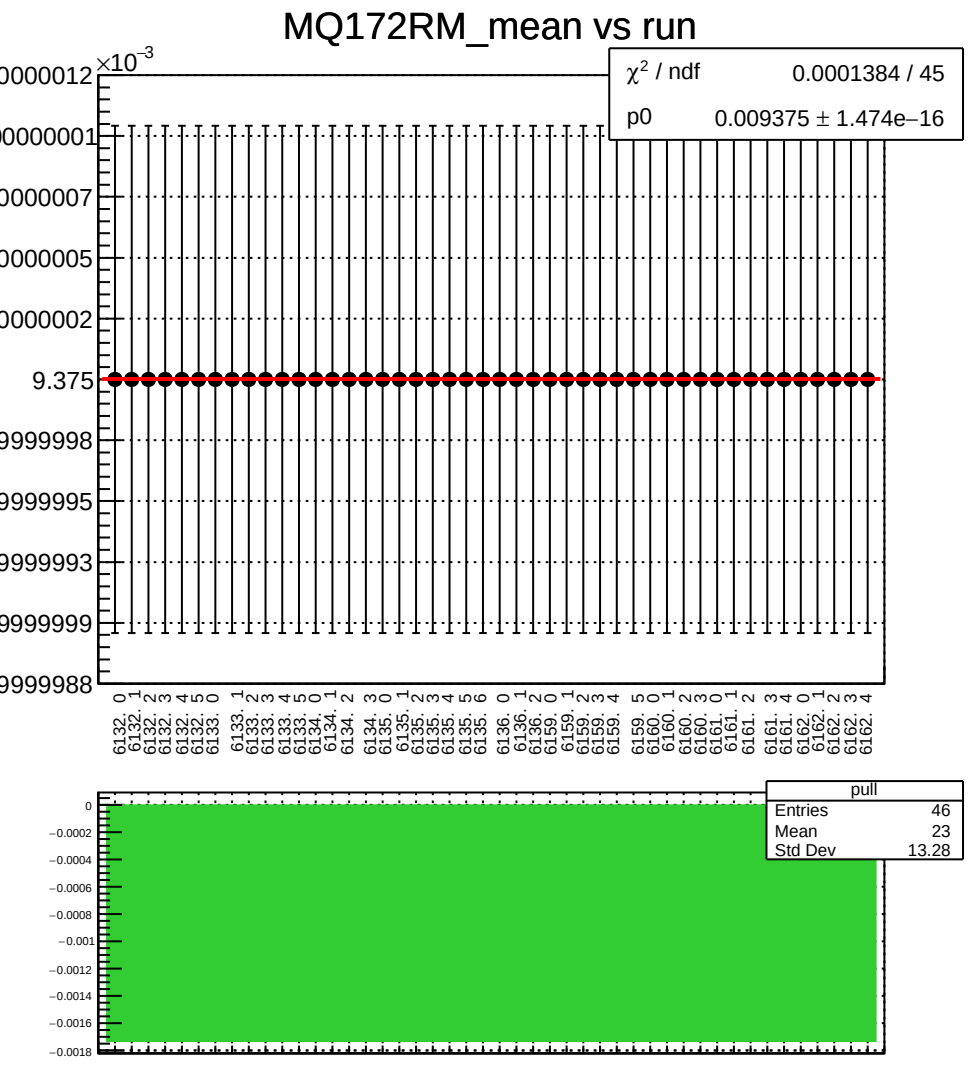

pull1D
Entries 46
Mean −0.001735
Std Dev 0
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

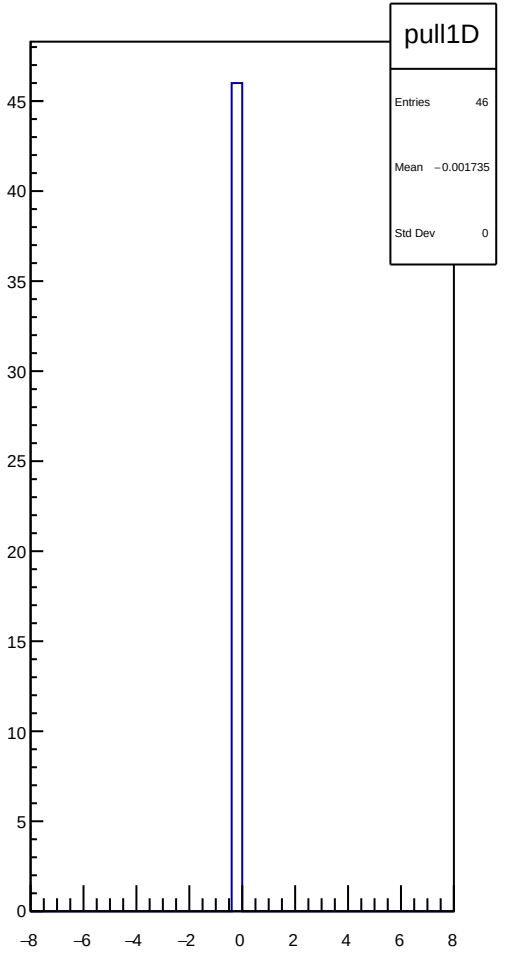

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.487e+27 / 45
p0 931.8 ± 1.474e−16
931.8
931.795
931.79
931.785
931.78
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
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 46
Mean −2.659e+09
Std Dev 0
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

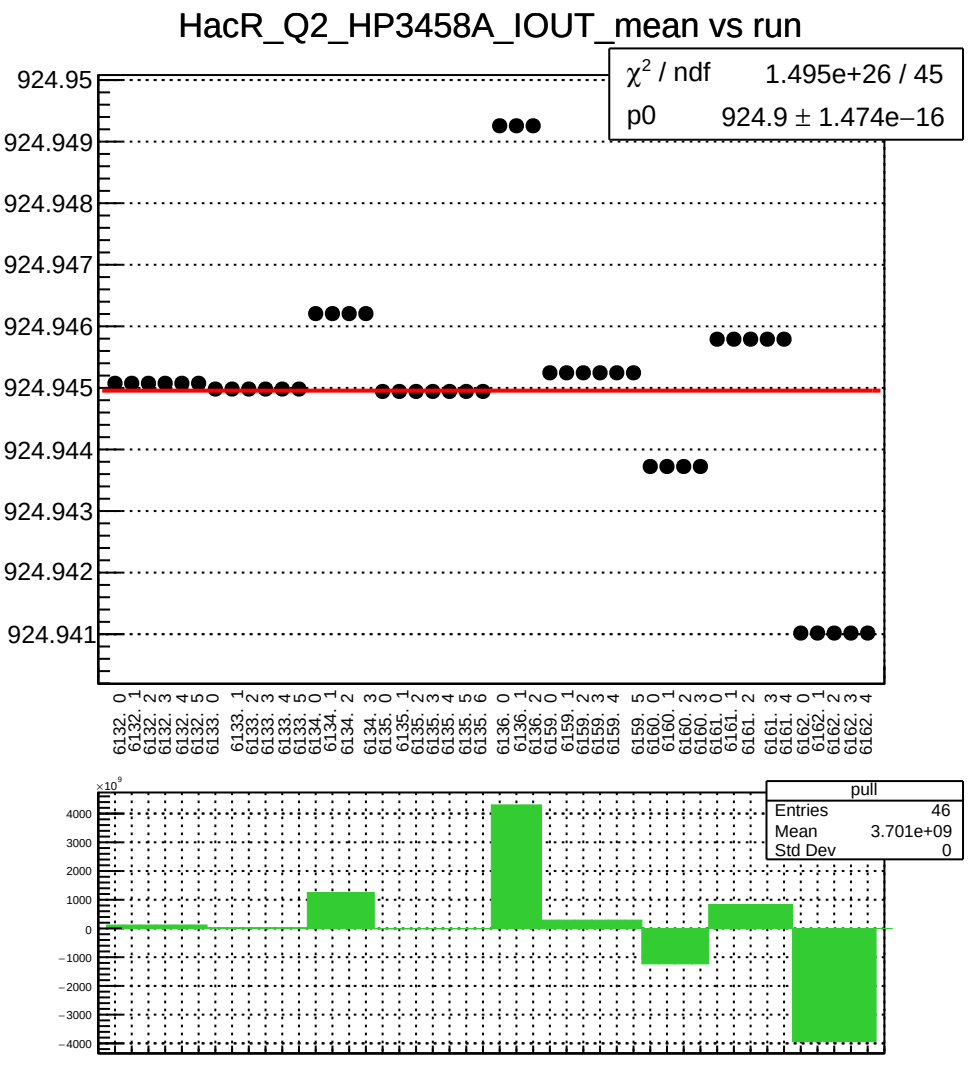

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 4.186e+26 / 45
p0 741.5 ± 1.474e−16
741.523
741.522
741.521
741.52
741.519
741.518
741.517
741.516
741.515
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 46
Mean 1.752e+09
Std Dev 0
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

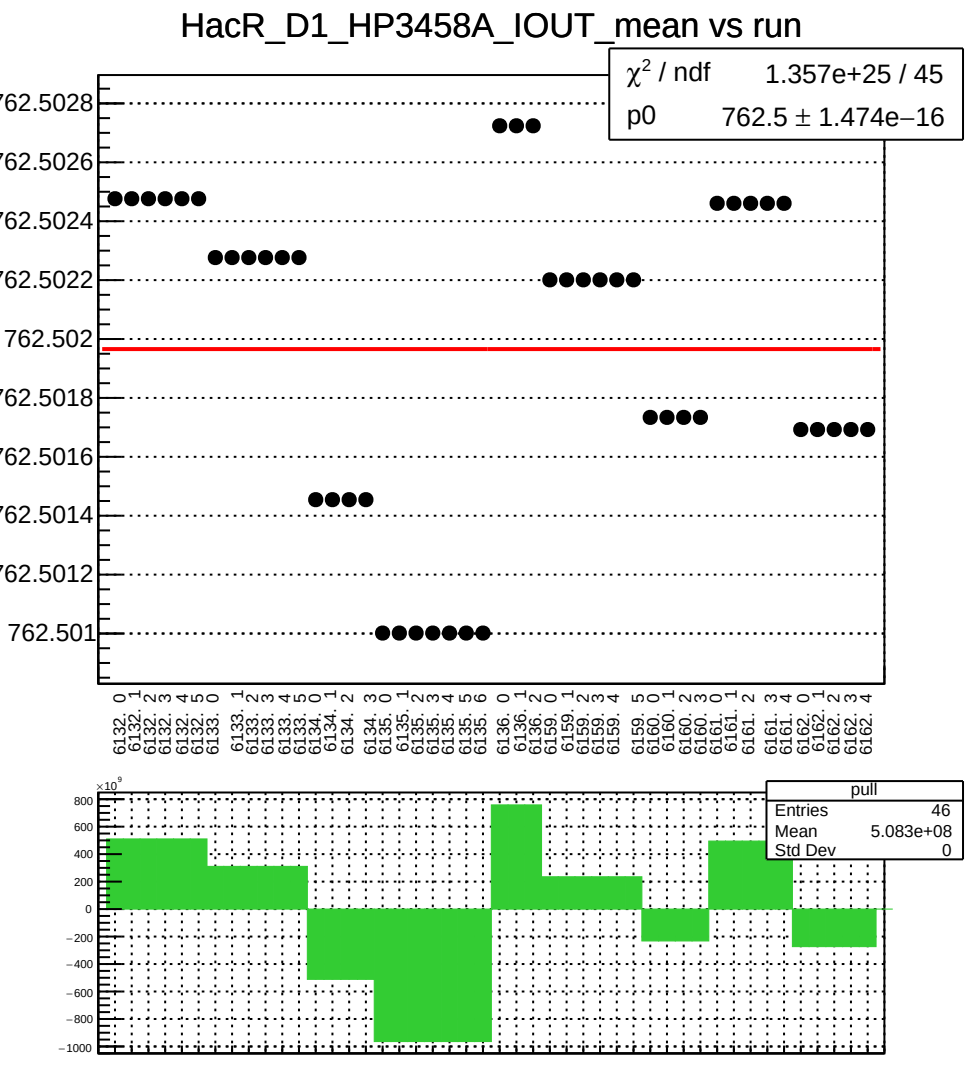

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 6.764e+26 / 45
p0 980.8 ± 1.474e−16
980.828
980.826
980.824
980.822
980.82
980.818
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
×10⁹
4000
2000
0
−2000
−4000
pull
Entries 46
Mean −8.279e+08
Std Dev 0

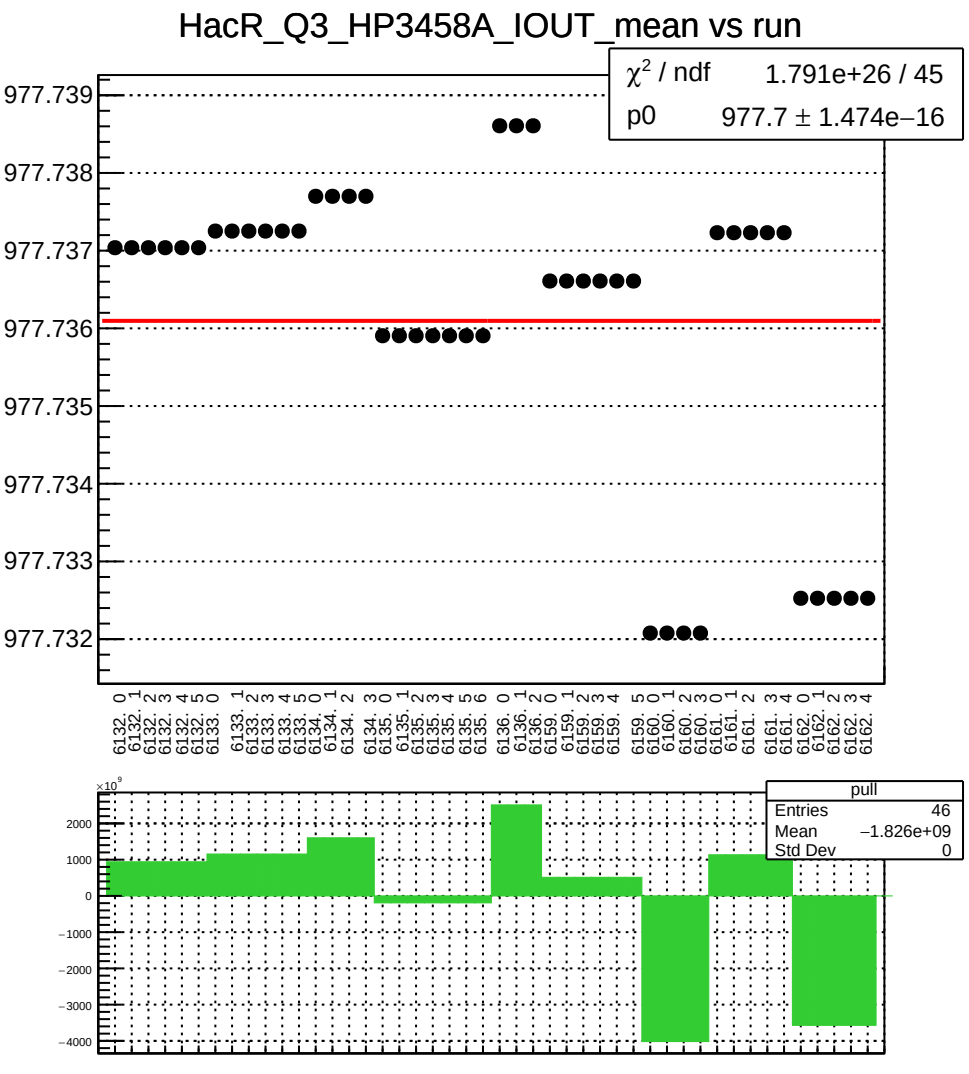

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

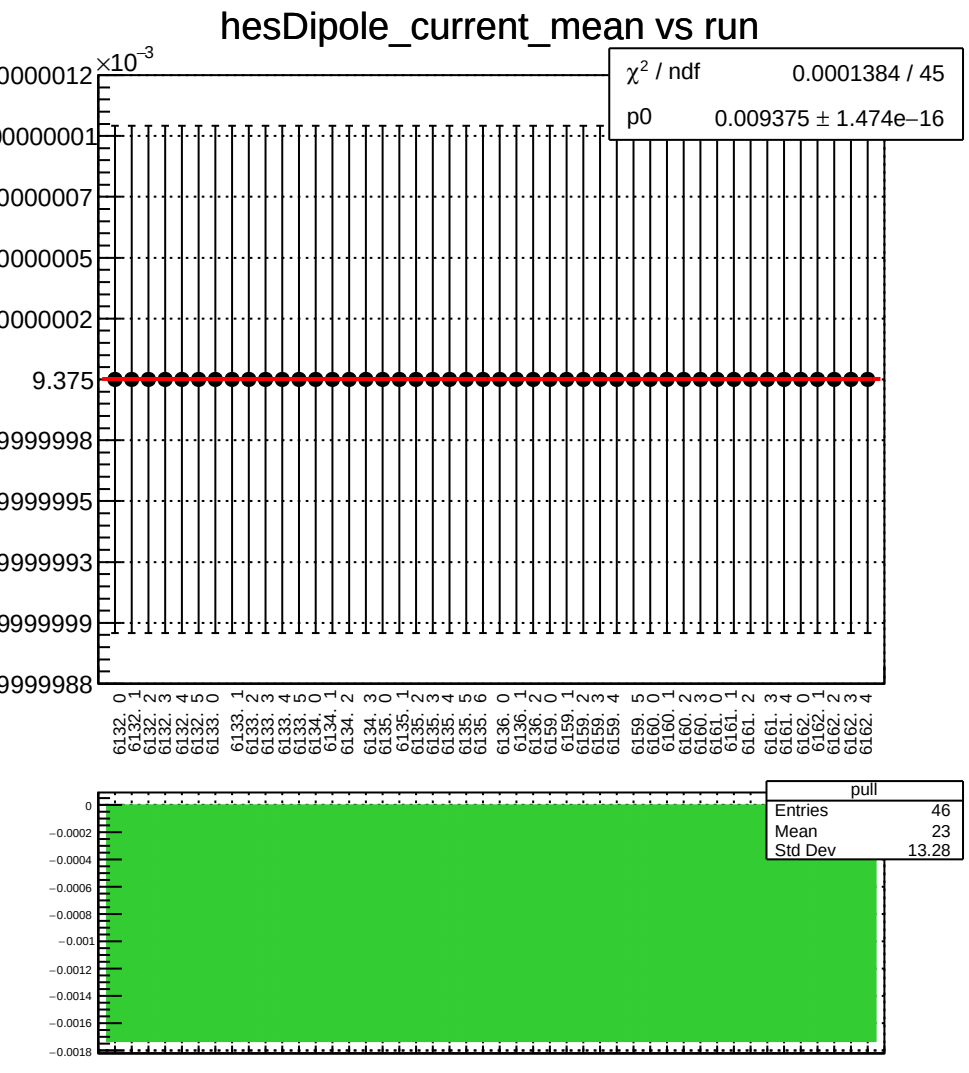

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.0001384 / 45
p0 0.009375 ± 1.474e−16
pull
Entries 46
Mean 23
Std Dev 13.28

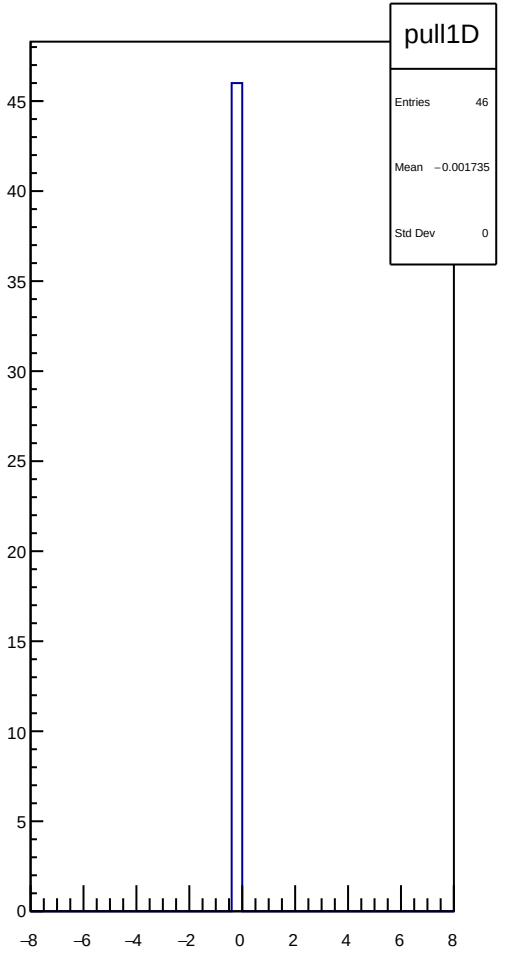

pull1D
Entries 46
Mean −0.001735
Std Dev 0

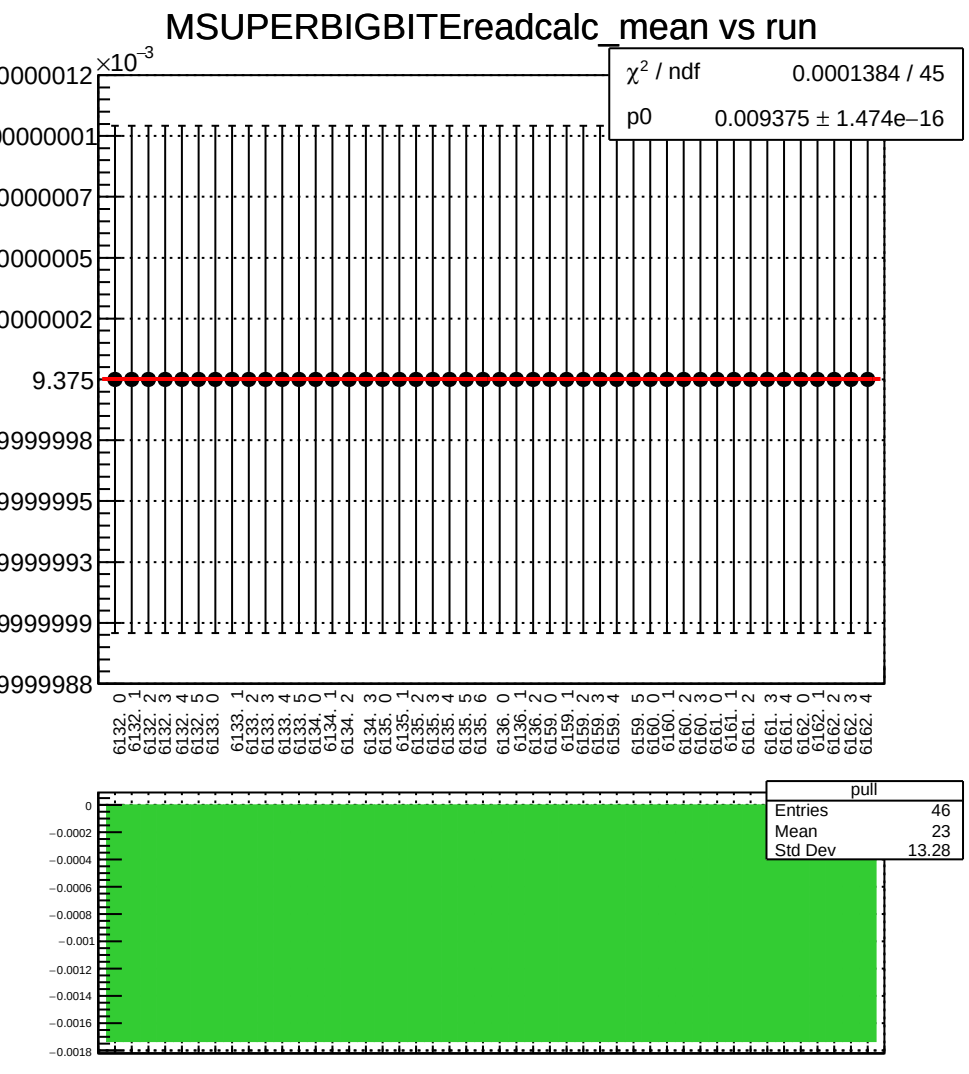

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.495e+26 / 45
p0 924.9 ± 1.474e−16
924.95
924.949
924.948
924.947
924.946
924.945
924.944
924.943
924.942
924.941
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 46
Mean 3.701e+09
Std Dev 0
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

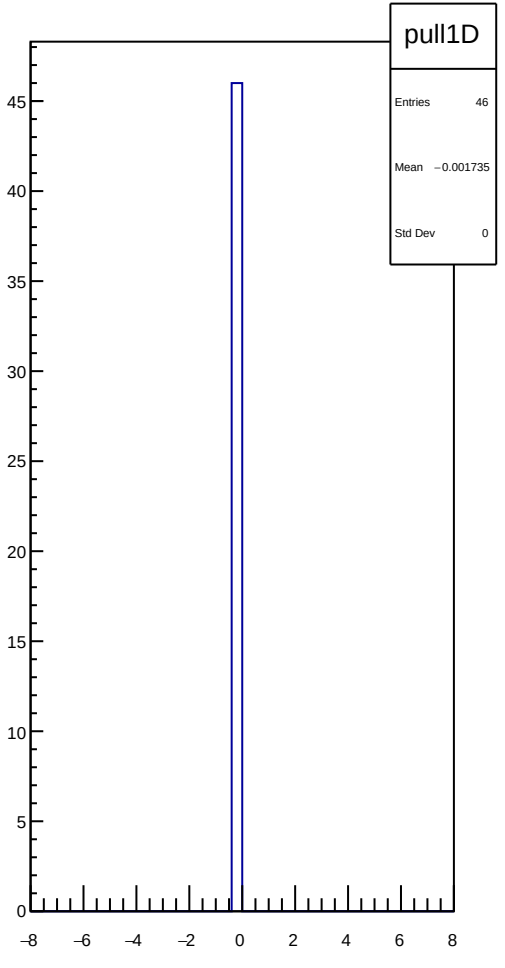

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.357e+25 / 45
p0 762.5 ± 1.474e−16
762.5028
762.5026
762.5024
762.5022
762.502
762.5018
762.5016
762.5014
762.5012
762.501
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
×10⁹
800
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 46
Mean 5.083e+08
Std Dev 0
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

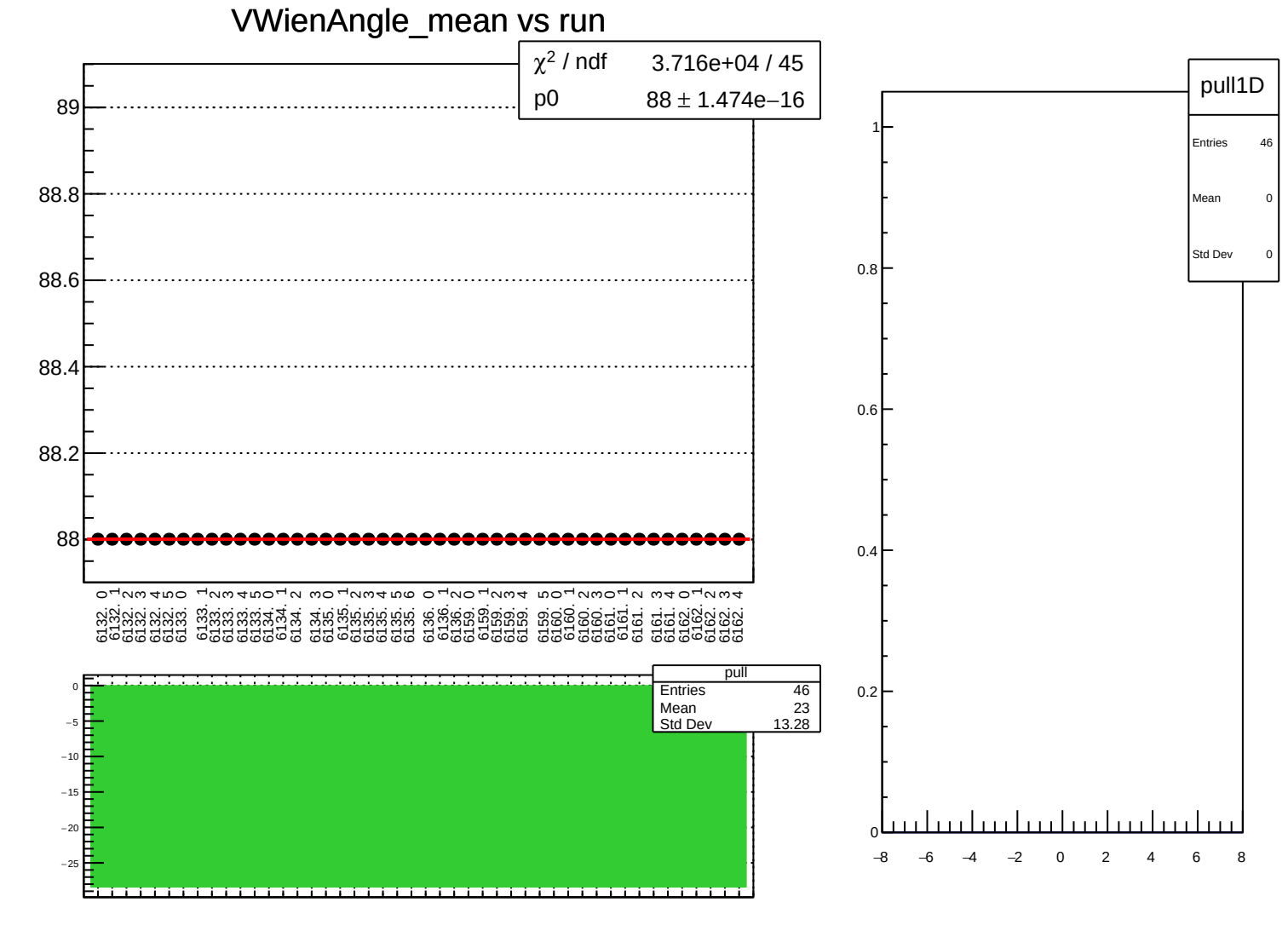

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.791e+26 / 45
p0 977.7 ± 1.474e−16
977.739
977.738
977.737
977.736
977.735
977.734
977.733
977.732
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
×10⁹
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 46
Mean −1.826e+09
Std Dev 0
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

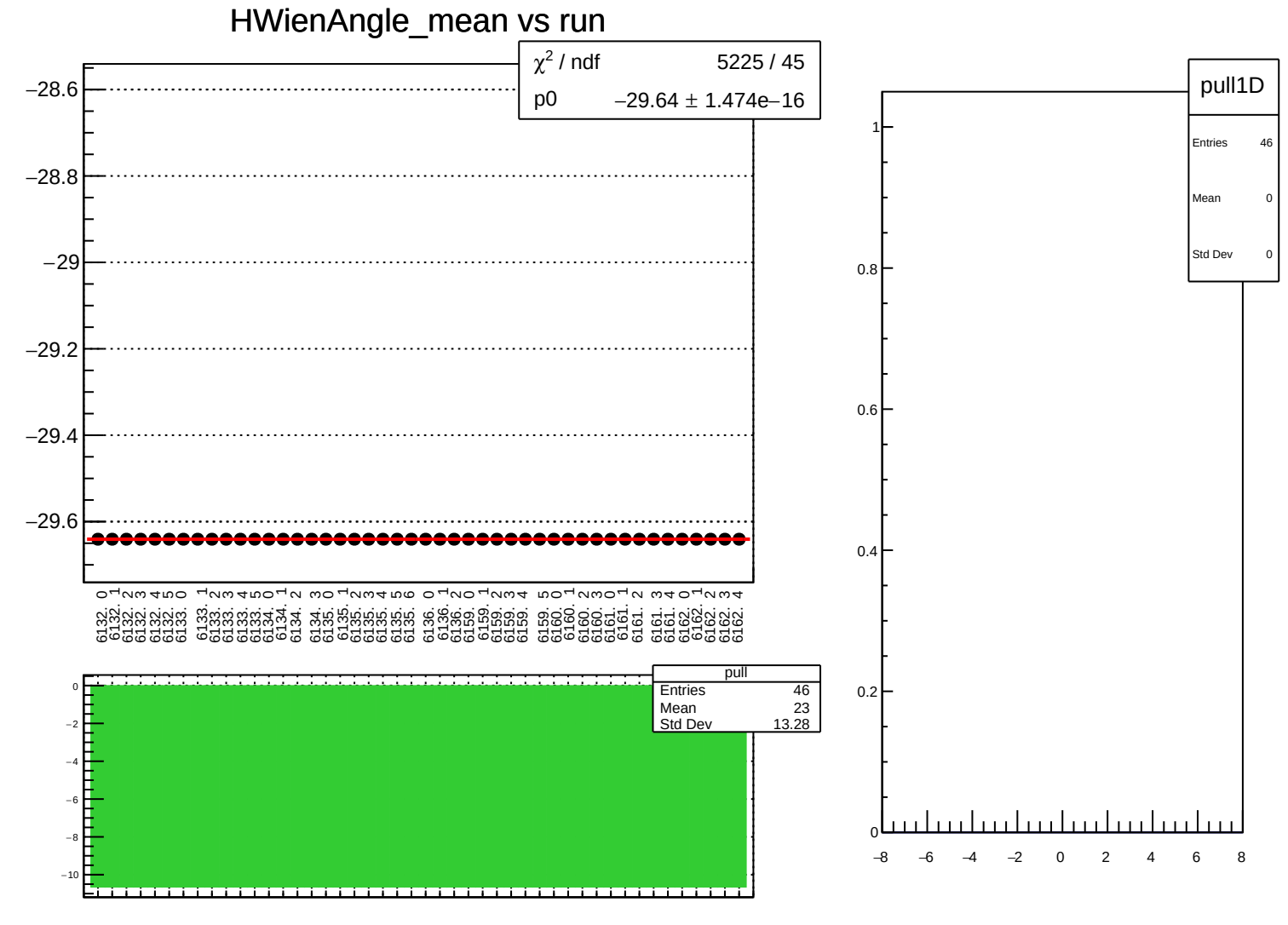

hesDipole_current_mean vs run
χ² / ndf 0.0001384 / 45
p0 0.009375 ± 1.474e−16
×10⁻³
pull
Entries 46
Mean 23
Std Dev 13.28

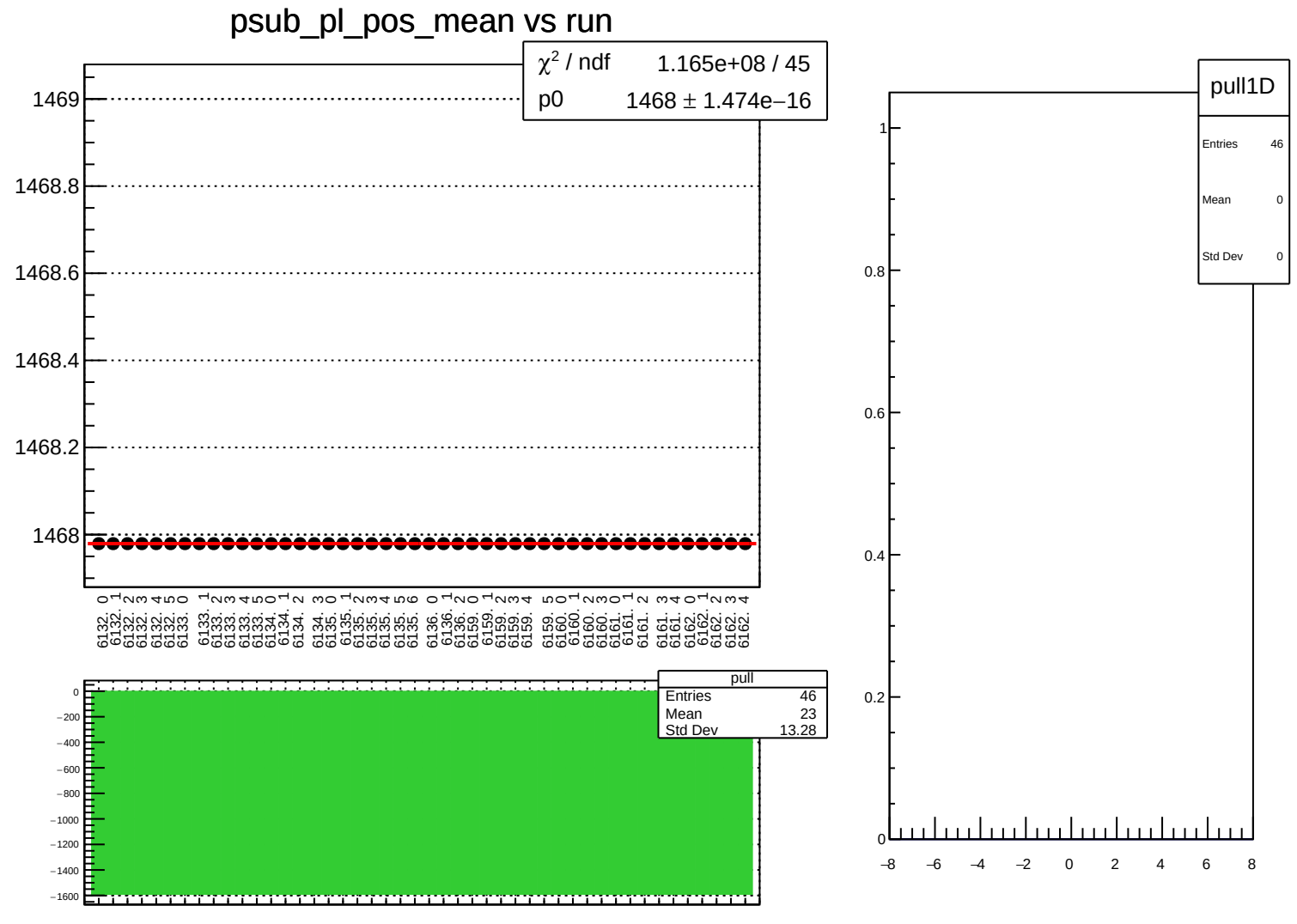

pull1D
Entries 46
Mean −0.001735
Std Dev 0

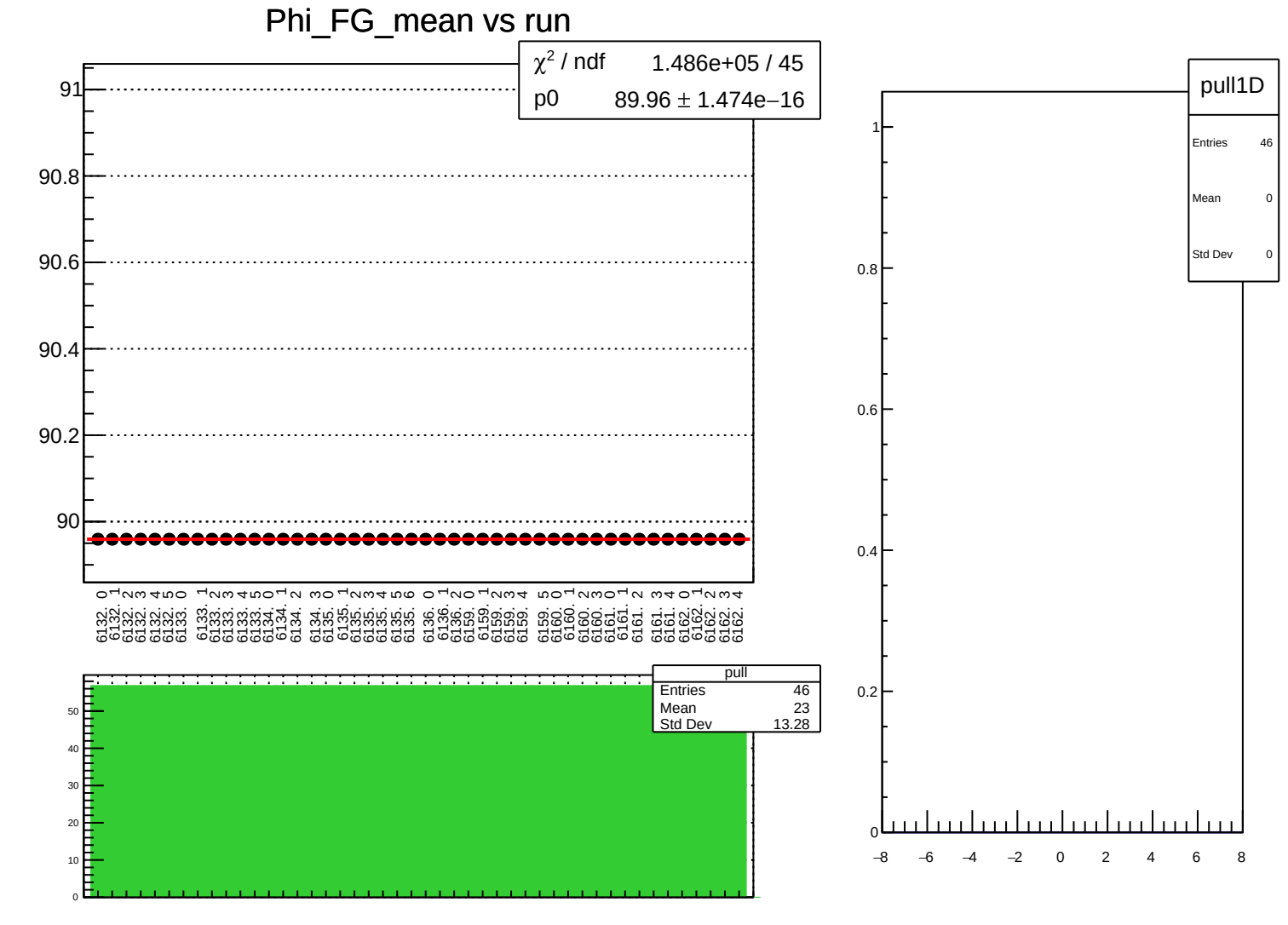

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.0001384 / 45
p0 0.009375 ± 1.474e−16
×10⁻³
pull
Entries 46
Mean 23
Std Dev 13.28

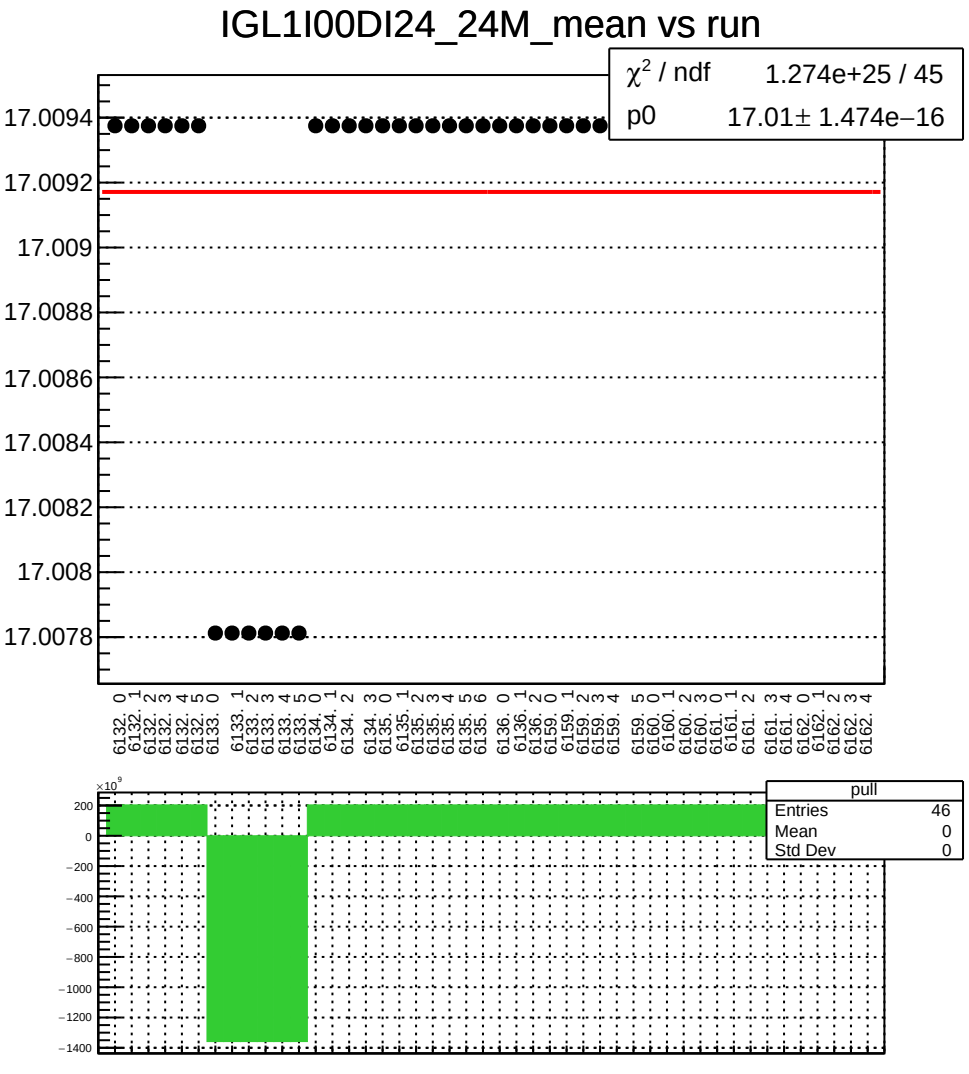

pull1D
Entries 46
Mean −0.001735
Std Dev 0

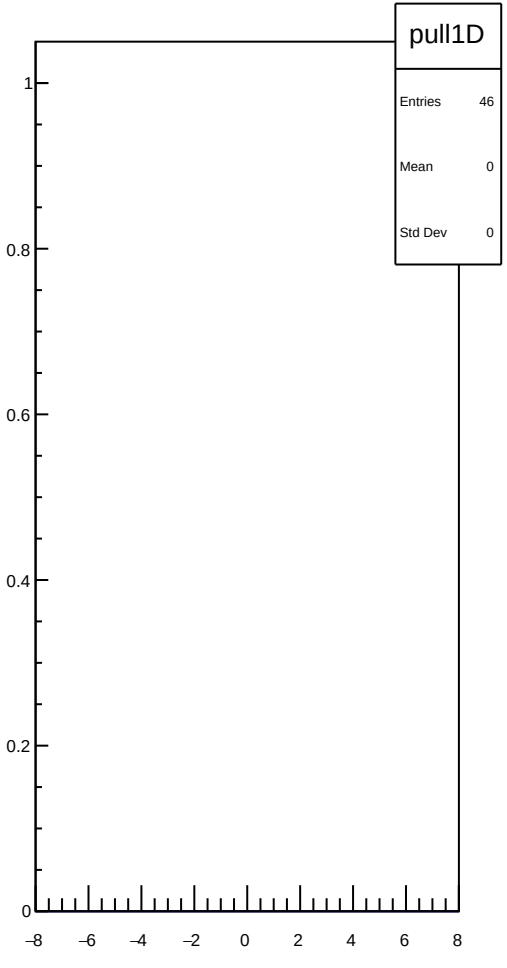

VWienAngle_mean vs run
χ² / ndf 3.716e+04 / 45
p0 88 ± 1.474e−16
89
88.8
88.6
88.4
88.2
88
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 23
Std Dev 13.28
0
−5
−10
−15
−20
−25
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

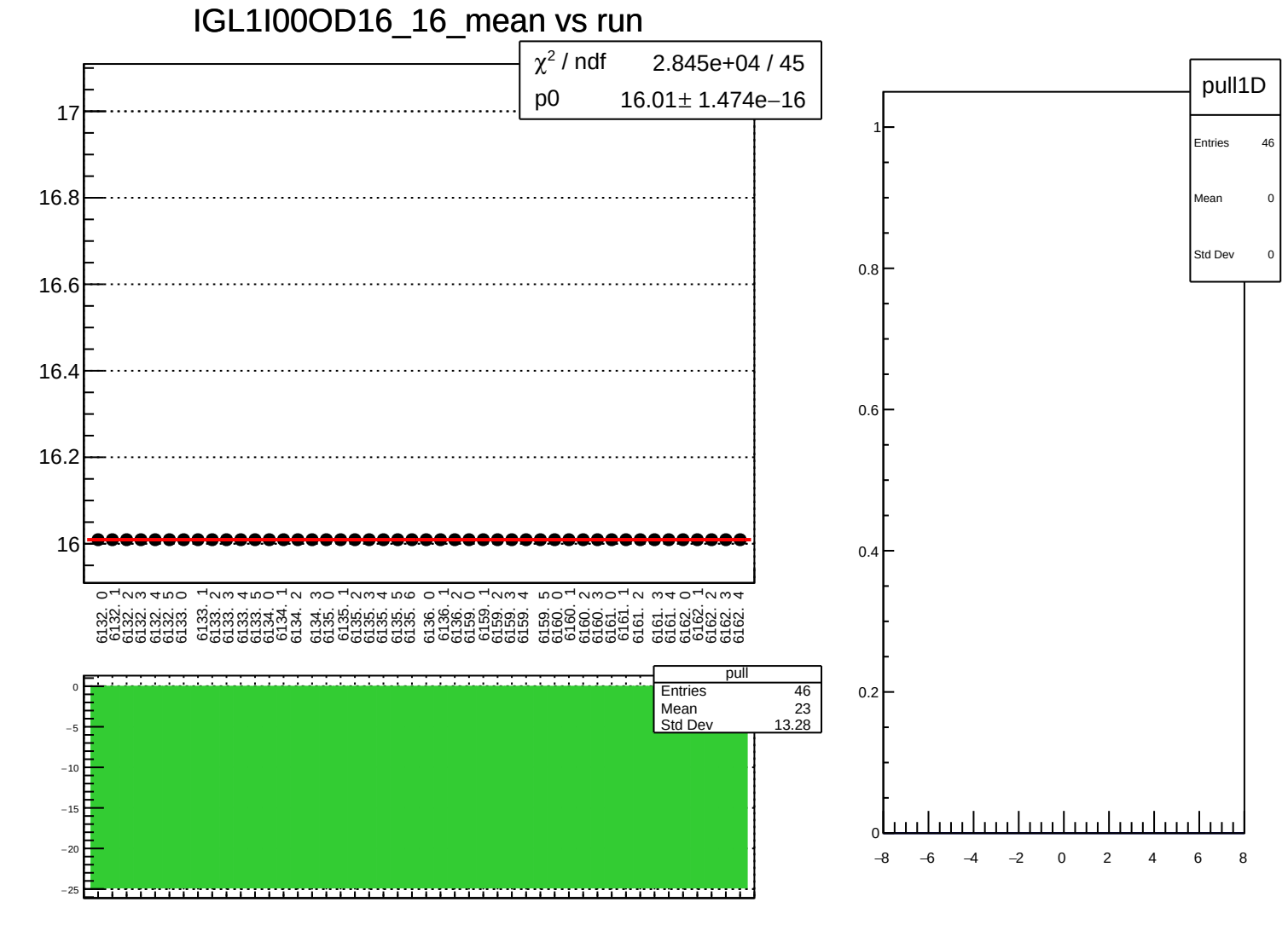

HWienAngle_mean vs run
χ² / ndf 5225 / 45
p0 −29.64 ± 1.474e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 23
Std Dev 13.28
0
−2
−4
−6
−8
−10
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


psub_pl_pos_mean vs run
χ² / ndf 1.165e+08 / 45
p0 1468 ± 1.474e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 23
Std Dev 13.28
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
pull1D
Entries 46
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 1.486e+05 / 45
p0 89.96 ± 1.474e−16
91
90.8
90.6
90.4
90.2
90
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 23
Std Dev 13.28
50
40
30
20
10
0
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


IGL1I00DI24_24M_mean vs run
χ² / ndf 1.274e+25 / 45
p0 17.01± 1.474e−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
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
×10⁹
200
0
−200
−400
−600
−800
−1000
−1200
−1400
pull
Entries 46
Mean 0
Std Dev 0


pull1D
Entries 46
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 2.845e+04 / 45
p0 16.01± 1.474e−16
17
16.8
16.6
16.4
16.2
16
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
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6134. 2
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6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
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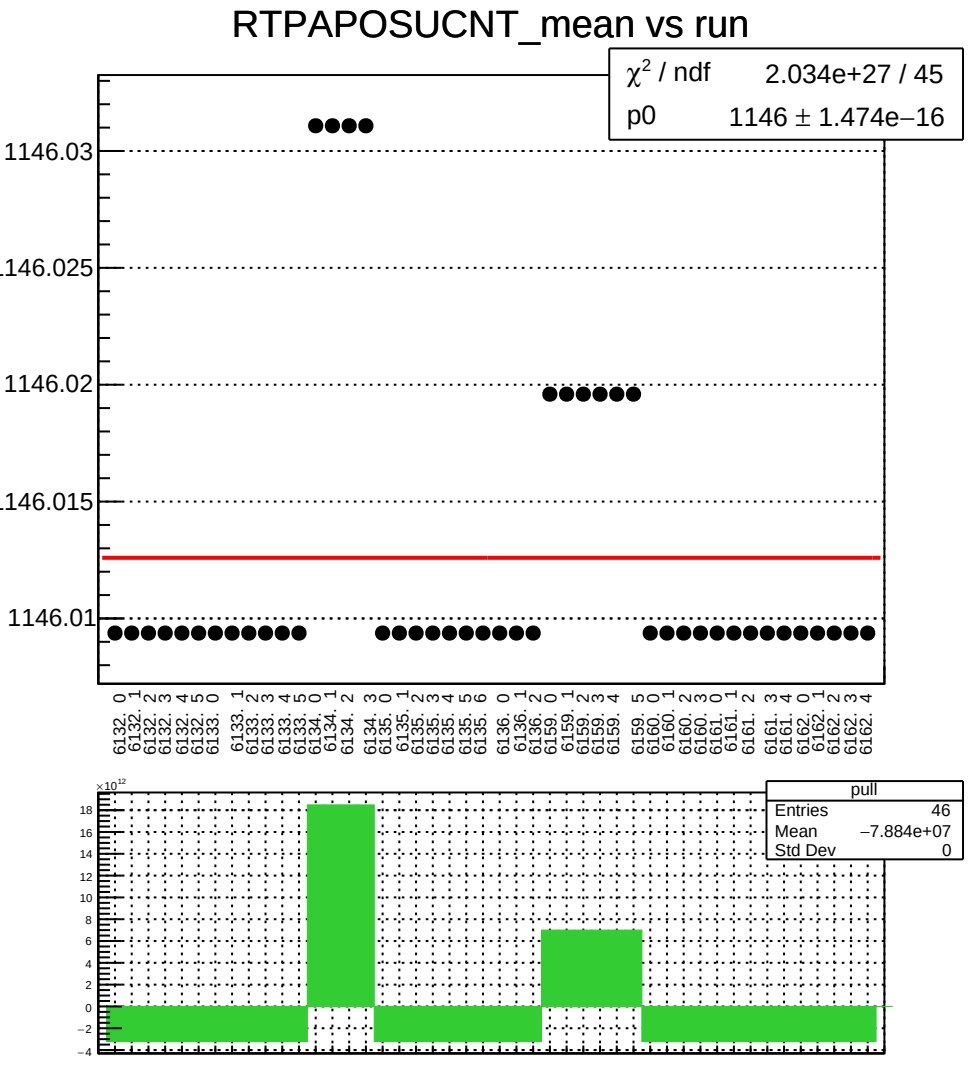
6136. 2
6159. 0
6159. 1
6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
pull
Entries 46
Mean 23
Std Dev 13.28
0
−5
−10
−15
−20
−25
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 2.034e+27 / 45
p0 1146 ± 1.474e−16
1146.03
1146.025
1146.02
1146.015
1146.01
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
6135. 1
6135. 2
6135. 3
6135. 4
6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6159. 0
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6159. 2
6159. 3
6159. 4
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
×10¹²
18
16
14
12
10
8
6
4
2
0
−2
−4
pull
Entries 46
Mean −7.884e+07
Std Dev 0
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
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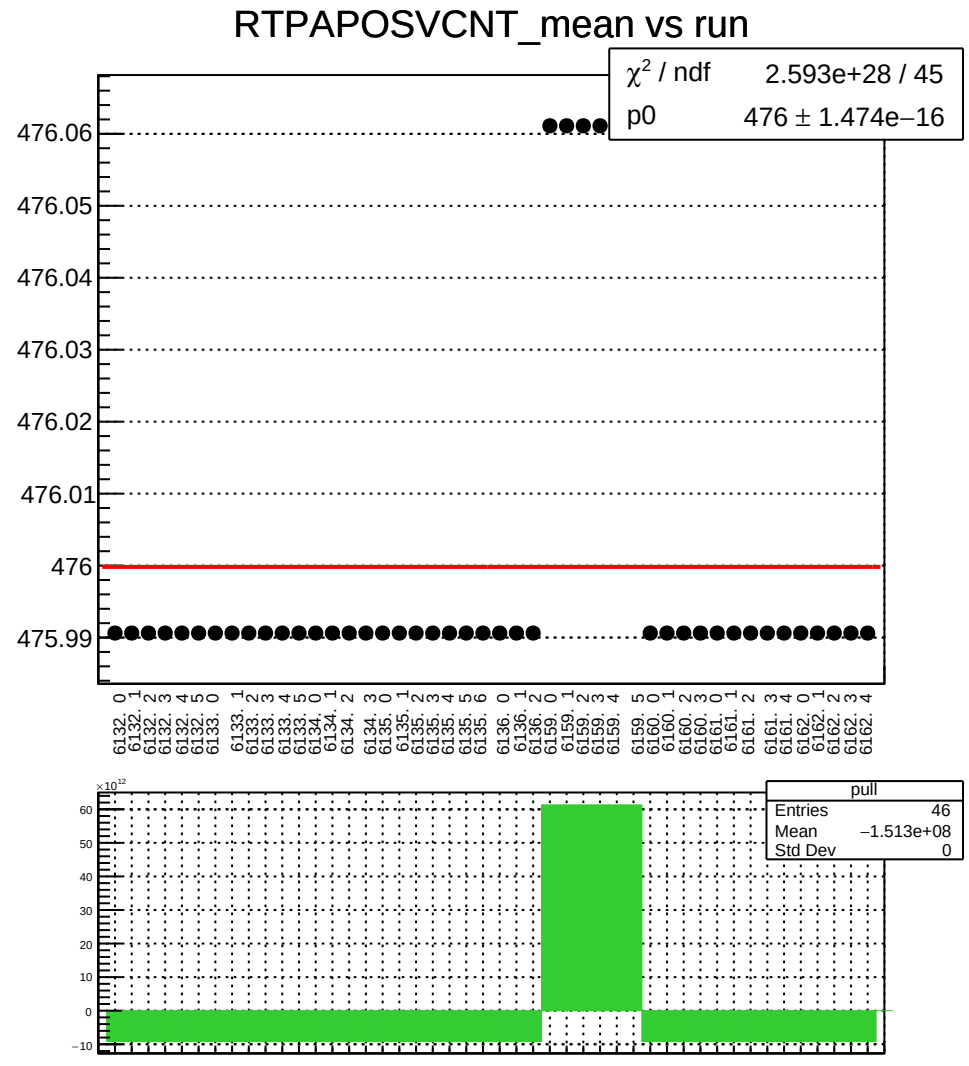
RTPAPOSVCNT_mean vs run
χ² / ndf 2.593e+28 / 45
p0 476 ± 1.474e−16
476.06
476.05
476.04
476.03
476.02
476.01
476
475.99
6132. 0
6132. 1
6132. 2
6132. 3
6132. 4
6132. 5
6133. 0
6133. 1
6133. 2
6133. 3
6133. 4
6133. 5
6134. 0
6134. 1
6134. 2
6134. 3
6135. 0
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6135. 5
6135. 6
6136. 0
6136. 1
6136. 2
6136. 3
6159. 0
6159. 1
6159. 2
6159. 3
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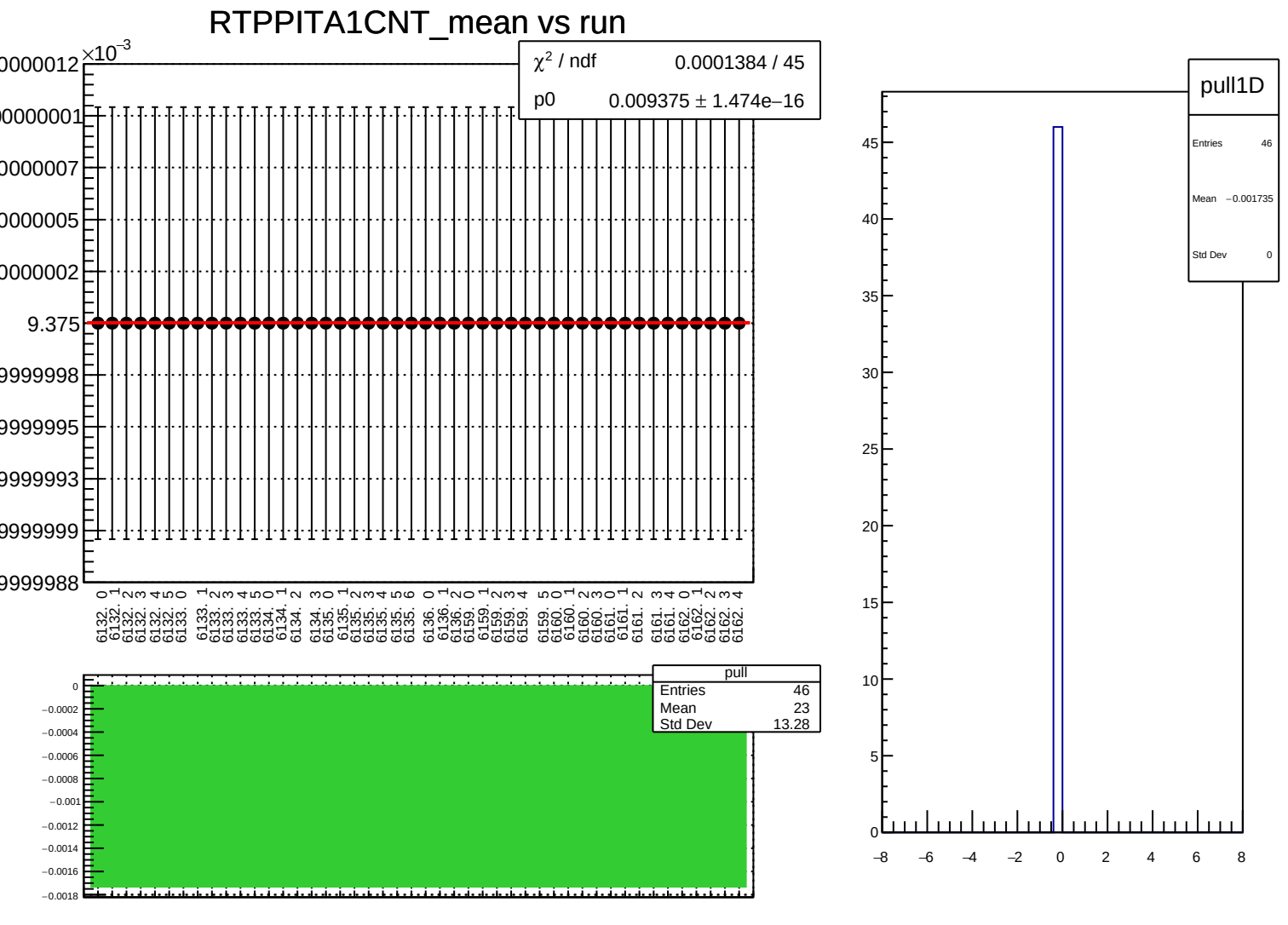
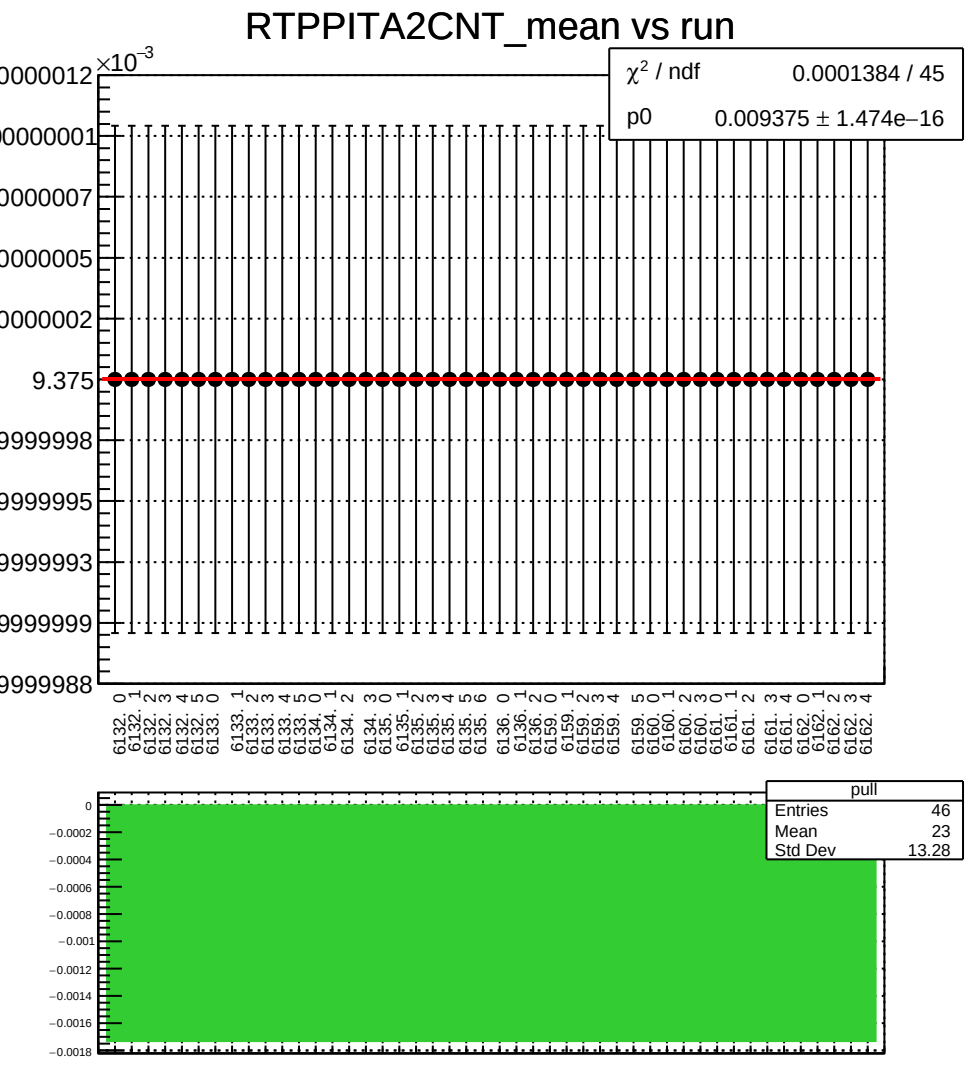
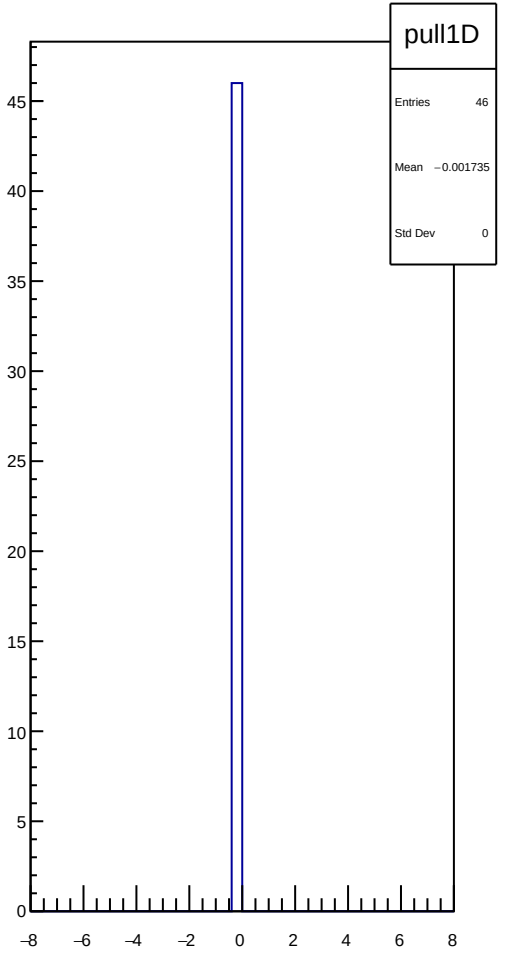
6159. 5
6160. 0
6160. 1
6160. 2
6160. 3
6161. 0
6161. 1
6161. 2
6161. 3
6161. 4
6162. 0
6162. 1
6162. 2
6162. 3
6162. 4
×10¹²
60
50
40
30
20
10
0
−10
pull
Entries 46
Mean −1.513e+08
Std Dev 0
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
χ² / ndf 0.0001384 / 45
p0 0.009375 ± 1.474e−16
×10⁻³
pull
Entries 46
Mean 23
Std Dev 13.28
pull1D
Entries 46
Mean −0.001735
Std Dev 0


RTPPITA2CNT_mean vs run
×10⁻³
χ² / ndf 0.0001384 / 45
p0 0.009375 ± 1.474e−16
pull
Entries 46
Mean 23
Std Dev 13.28


pull1D
Entries 46
Mean −0.001735
Std Dev 0