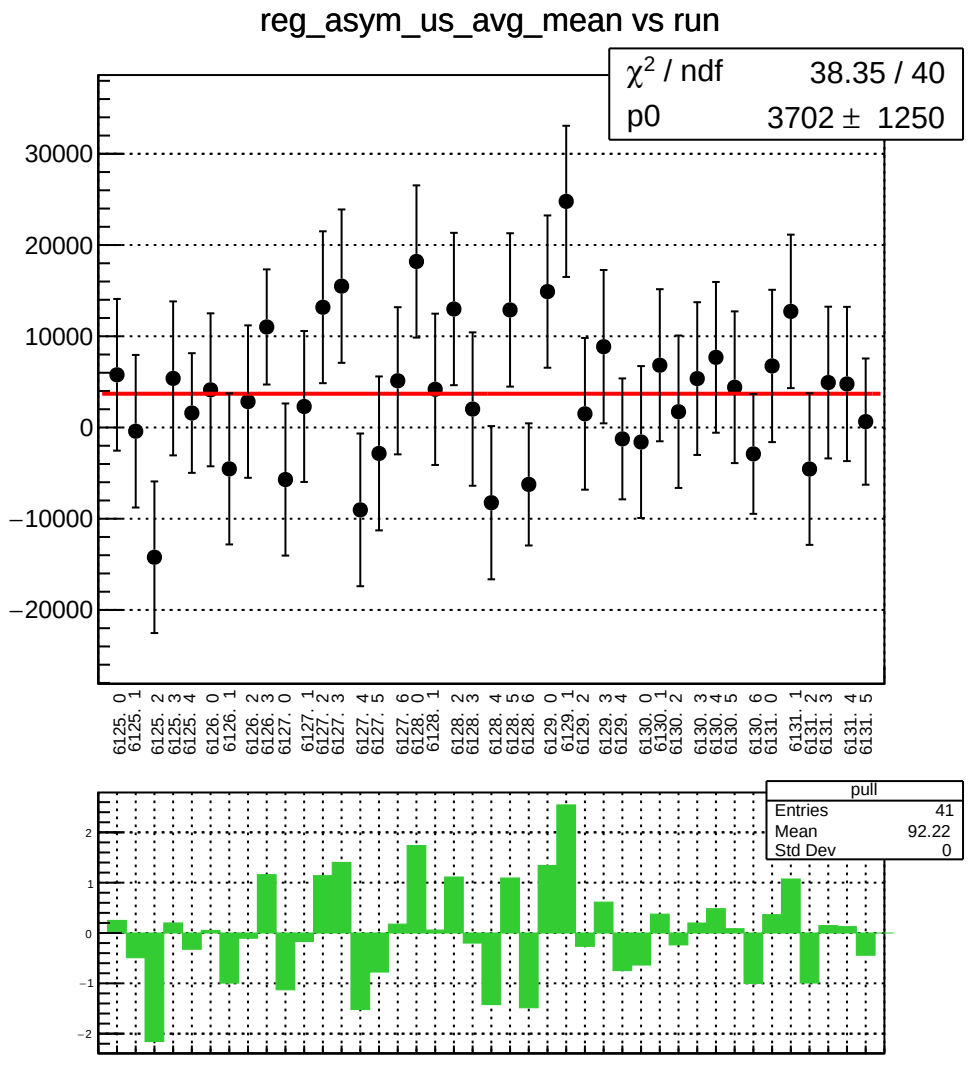
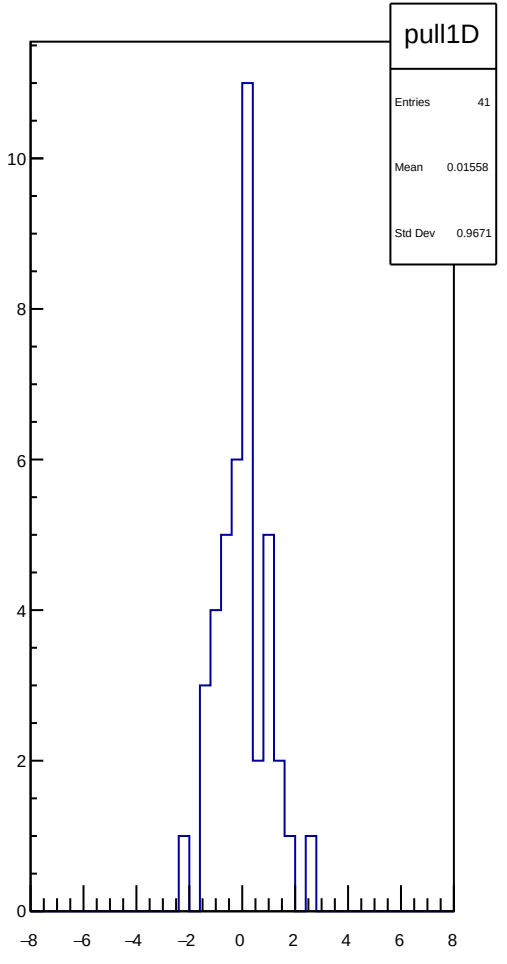
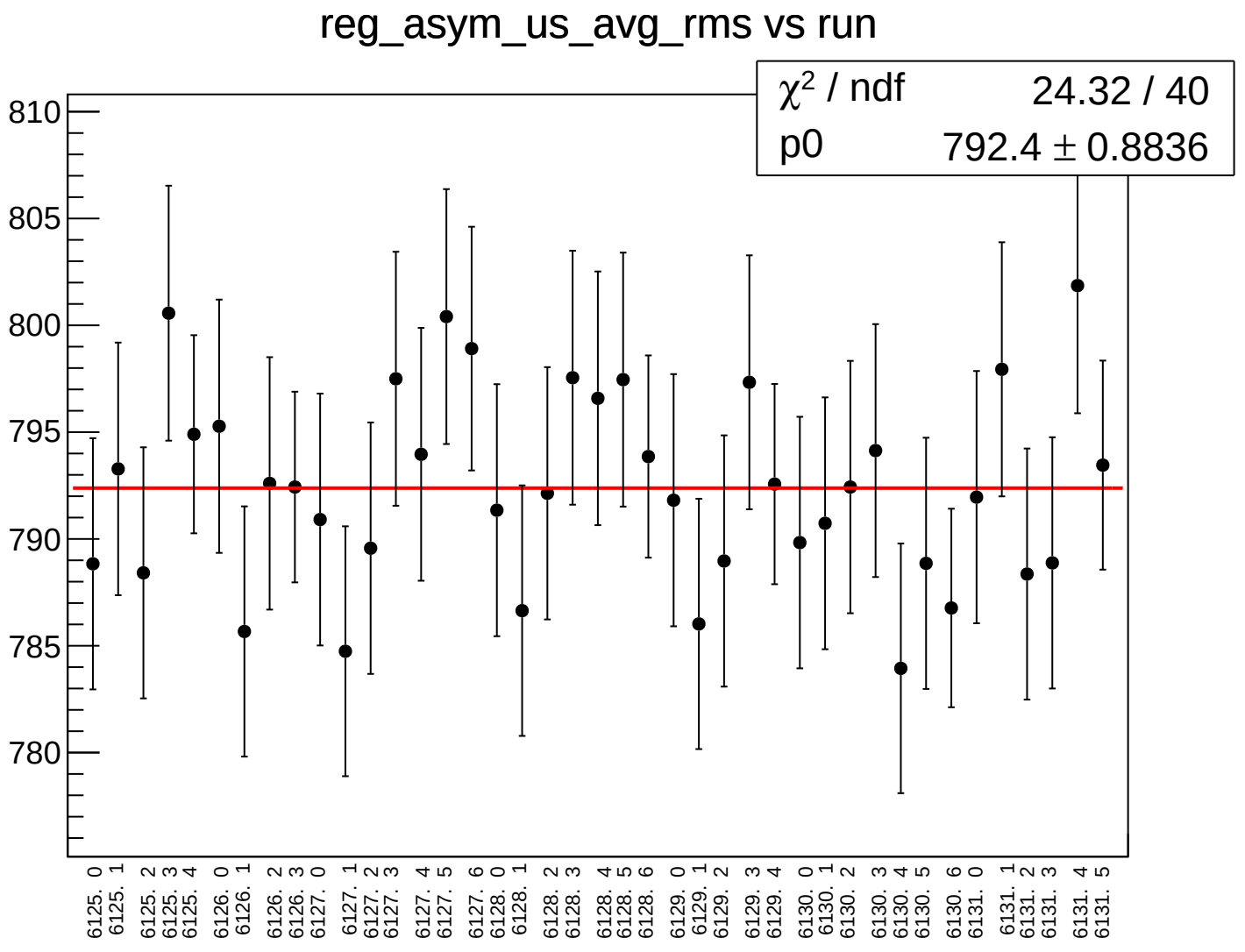

reg_asym_us_avg_mean vs run
χ² / ndf 38.35 / 40
p0 3702 ± 1250
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 92.22
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean 0.01558
Std Dev 0.9671
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_rms vs run
χ² / ndf 24.32 / 40
p0 792.4 ± 0.8836
810
805
800
795
790
785
780
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6130. 5
6130. 6
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6131. 2
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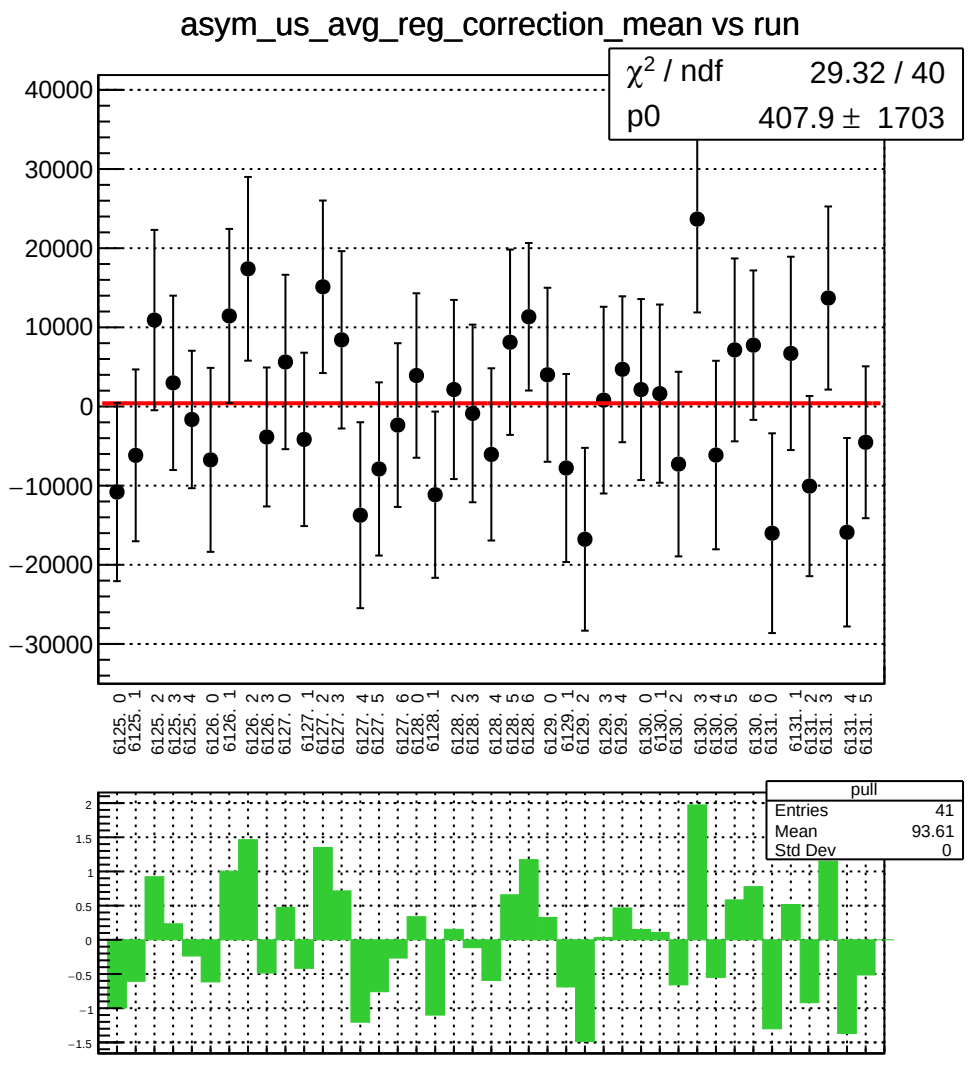
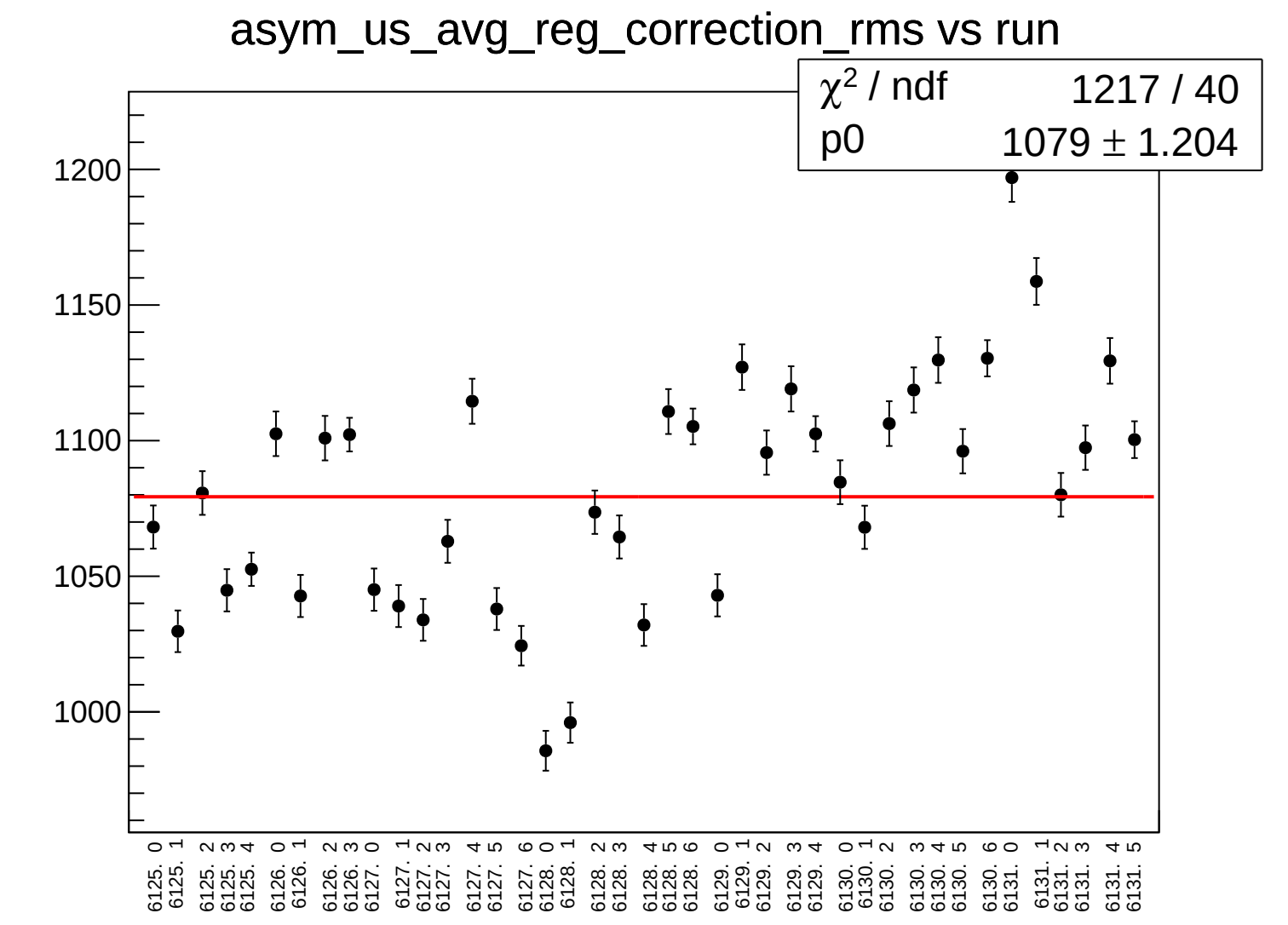
6131. 4
6131. 5


asym_us_avg_reg_correction_mean vs run
χ² / ndf 29.32 / 40
p0 407.9 ± 1703
pull
Entries 41
Mean 93.61
Std Dev 0
pull1D
Entries 41
Mean −0.00744
Std Dev 0.8456


asym_us_avg_reg_correction_rms vs run
χ² / ndf 1217 / 40
p0 1079 ± 1.204
1200
1150
1100
1050
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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6130. 5
6130. 6
6131. 0
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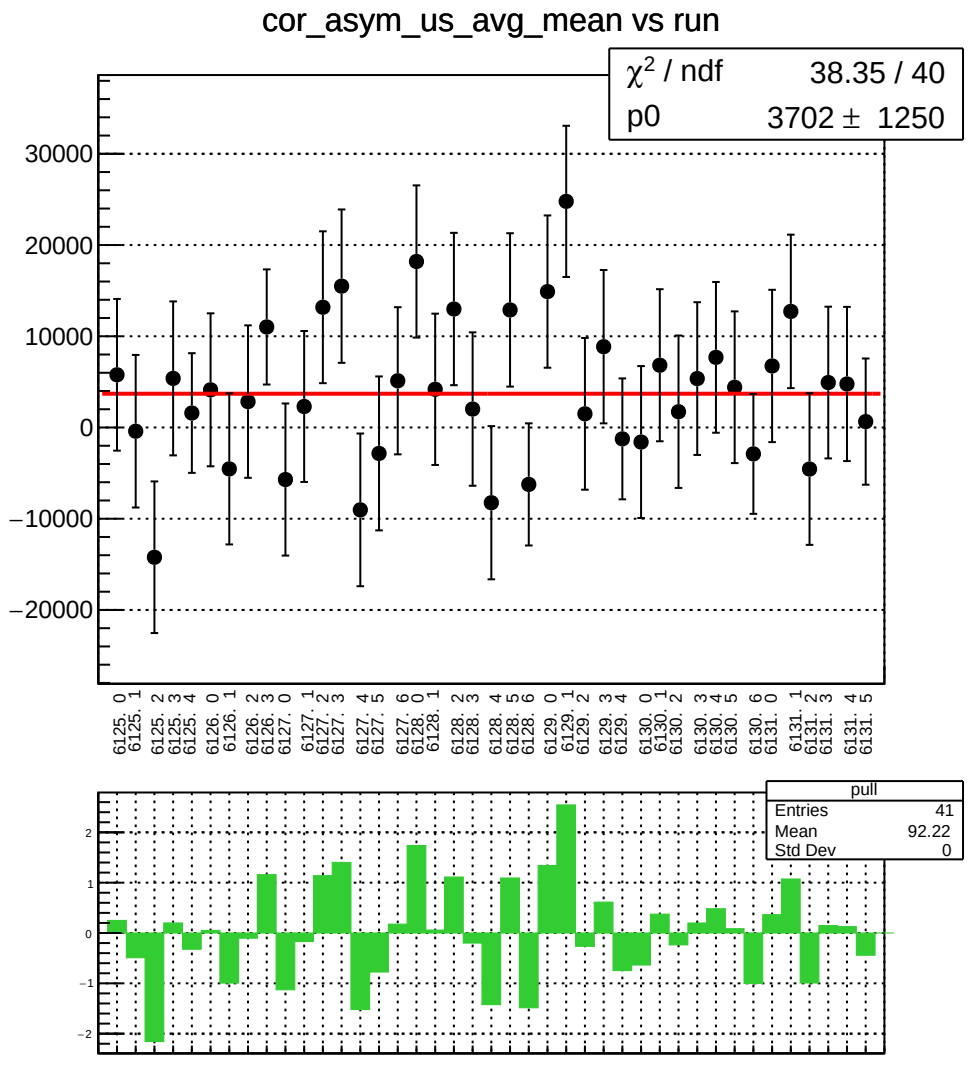
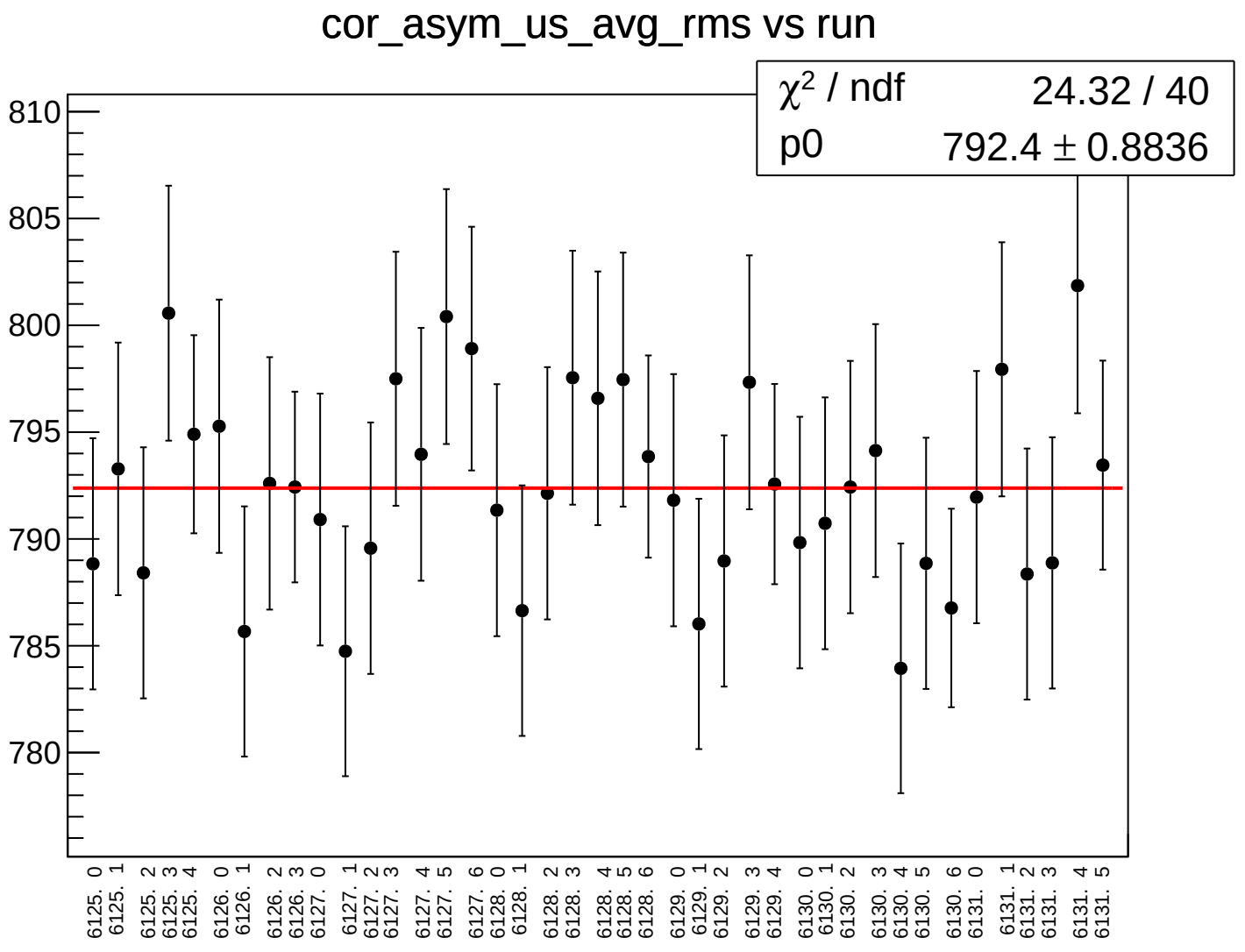
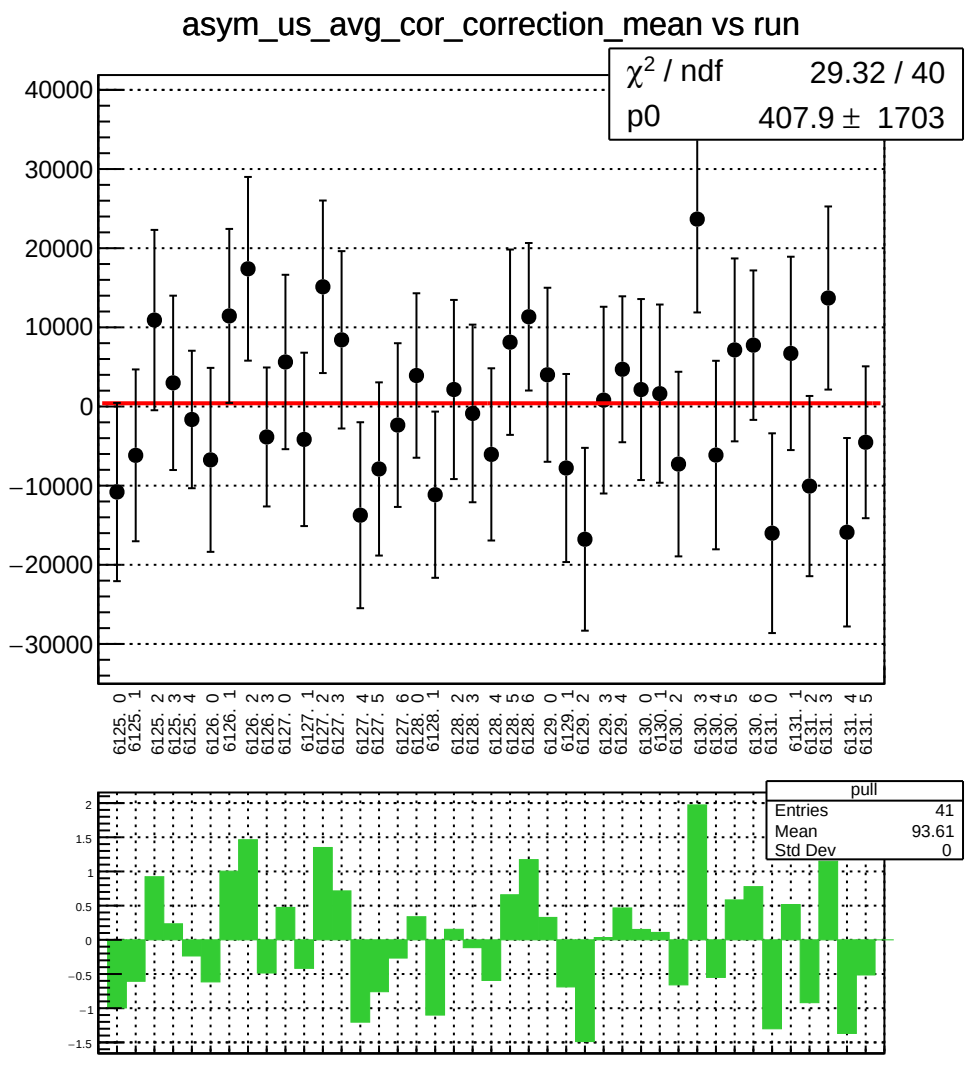
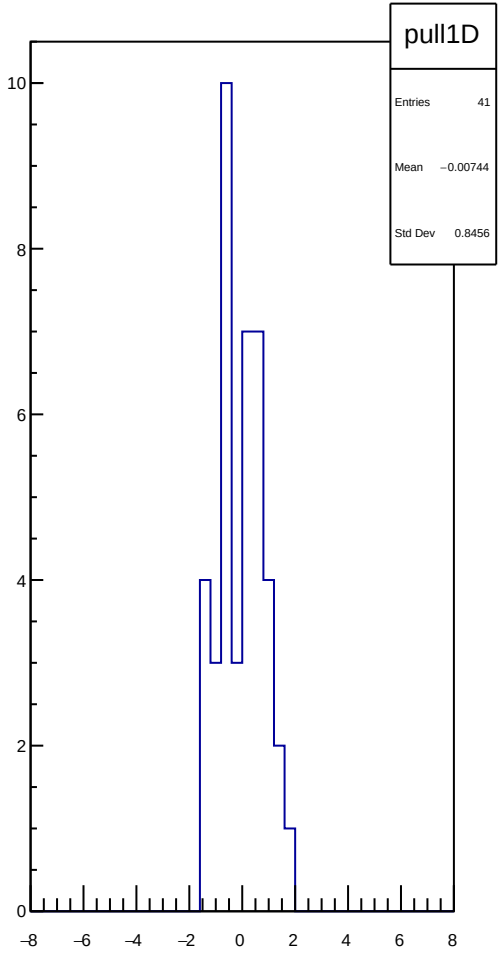
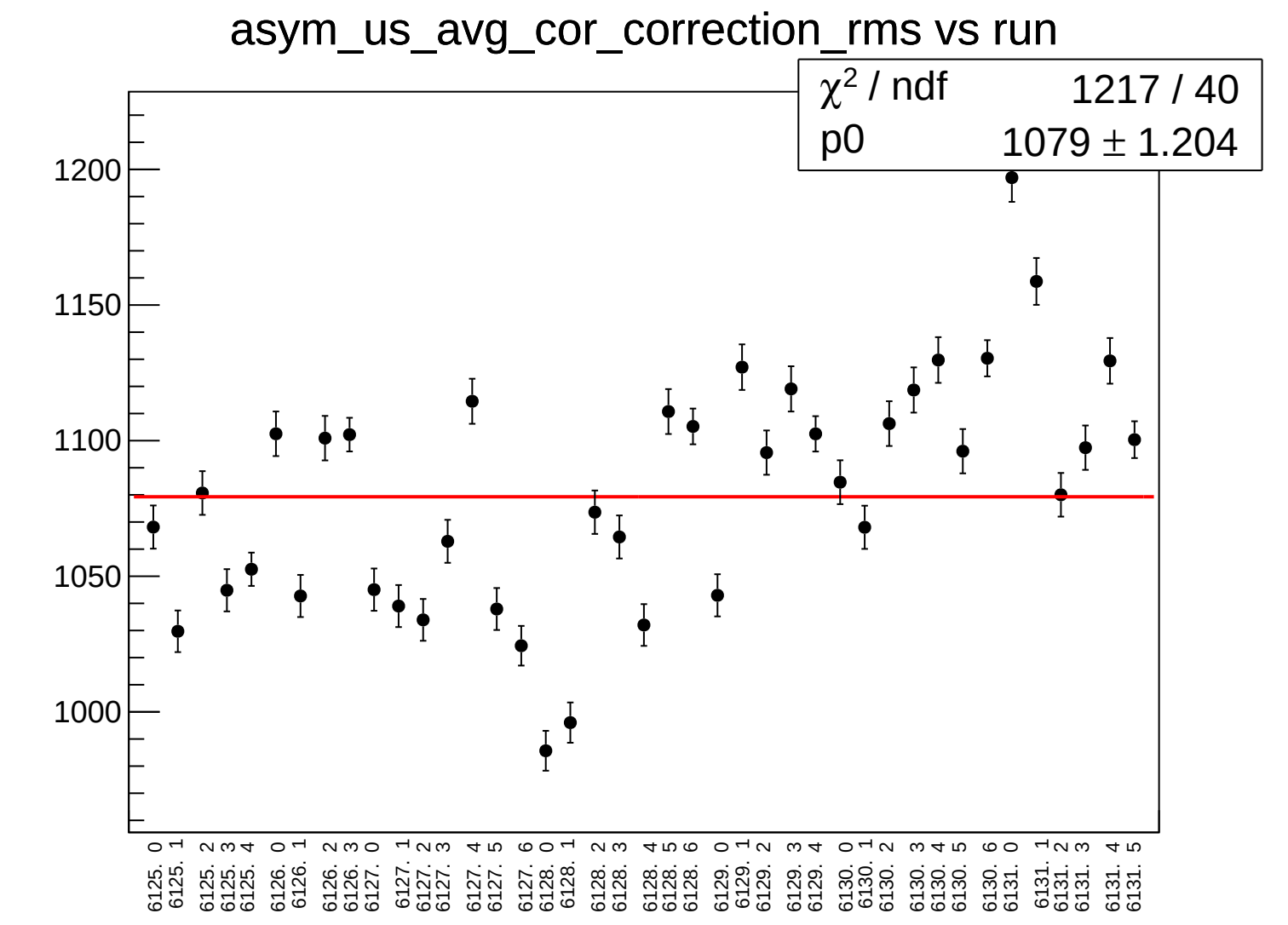
6131. 2
6131. 3
6131. 4
6131. 5


cor_asym_us_avg_mean vs run
χ² / ndf 38.35 / 40
p0 3702 ± 1250
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 92.22
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01558
Std Dev 0.9671
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_rms vs run
χ² / ndf 24.32 / 40
p0 792.4 ± 0.8836
810
805
800
795
790
785
780
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_us_avg_cor_correction_mean vs run
χ² / ndf 29.32 / 40
p0 407.9 ± 1703
pull
Entries 41
Mean 93.61
Std Dev 0


pull1D
Entries 41
Mean −0.00744
Std Dev 0.8456


asym_us_avg_cor_correction_rms vs run
χ² / ndf 1217 / 40
p0 1079 ± 1.204
1200
1150
1100
1050
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6127. 5
6127. 6
6128. 0
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6128. 2
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6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
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6130. 2
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6130. 5
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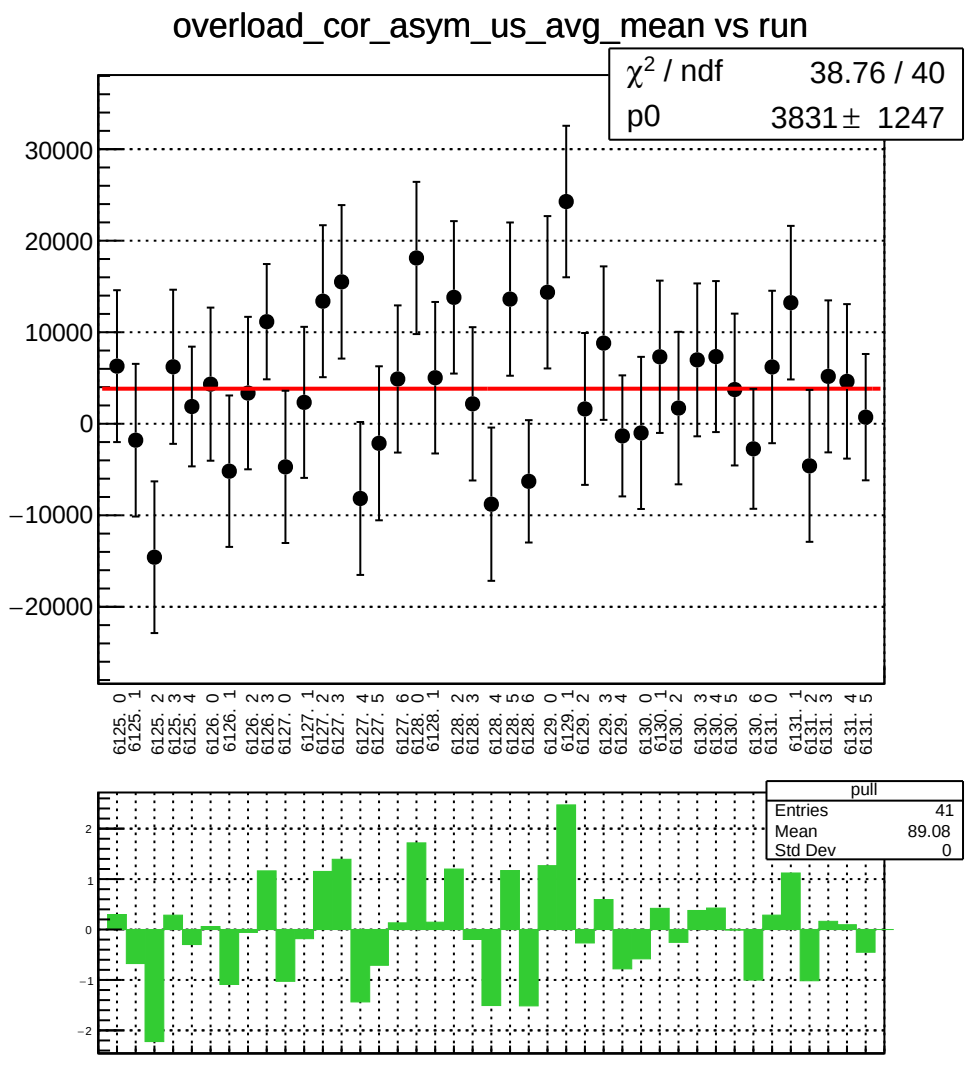
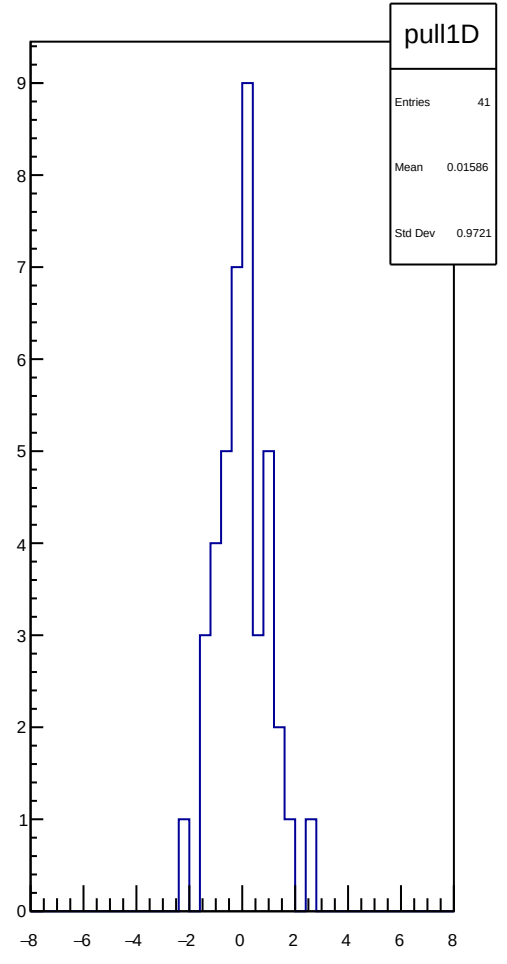
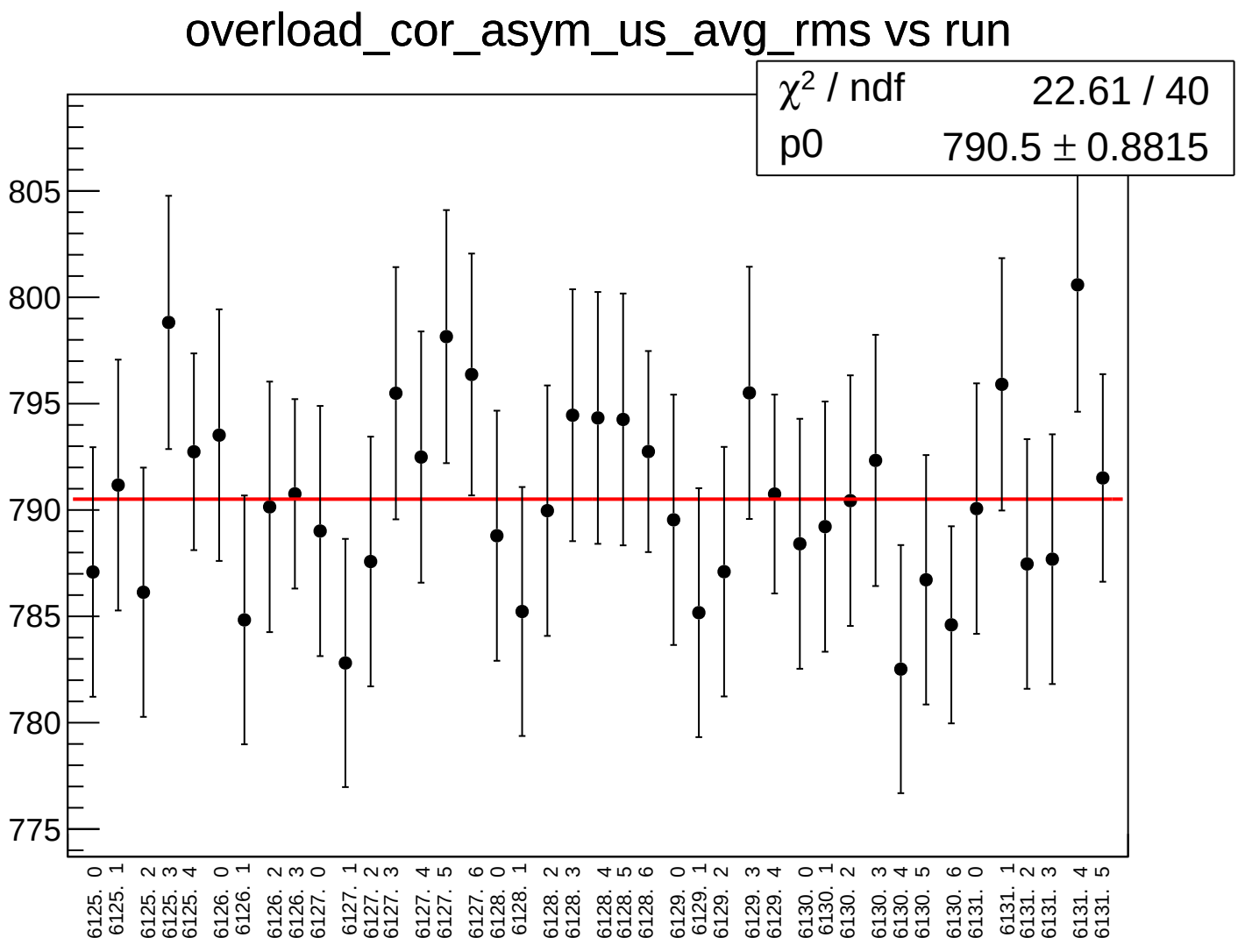
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


overload_cor_asym_us_avg_mean vs run
χ² / ndf 38.76 / 40
p0 3831 ± 1247
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 89.08
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean 0.01586
Std Dev 0.9721
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


overload_cor_asym_us_avg_rms vs run
χ² / ndf 22.61 / 40
p0 790.5 ± 0.8815
805
800
795
790
785
780
775
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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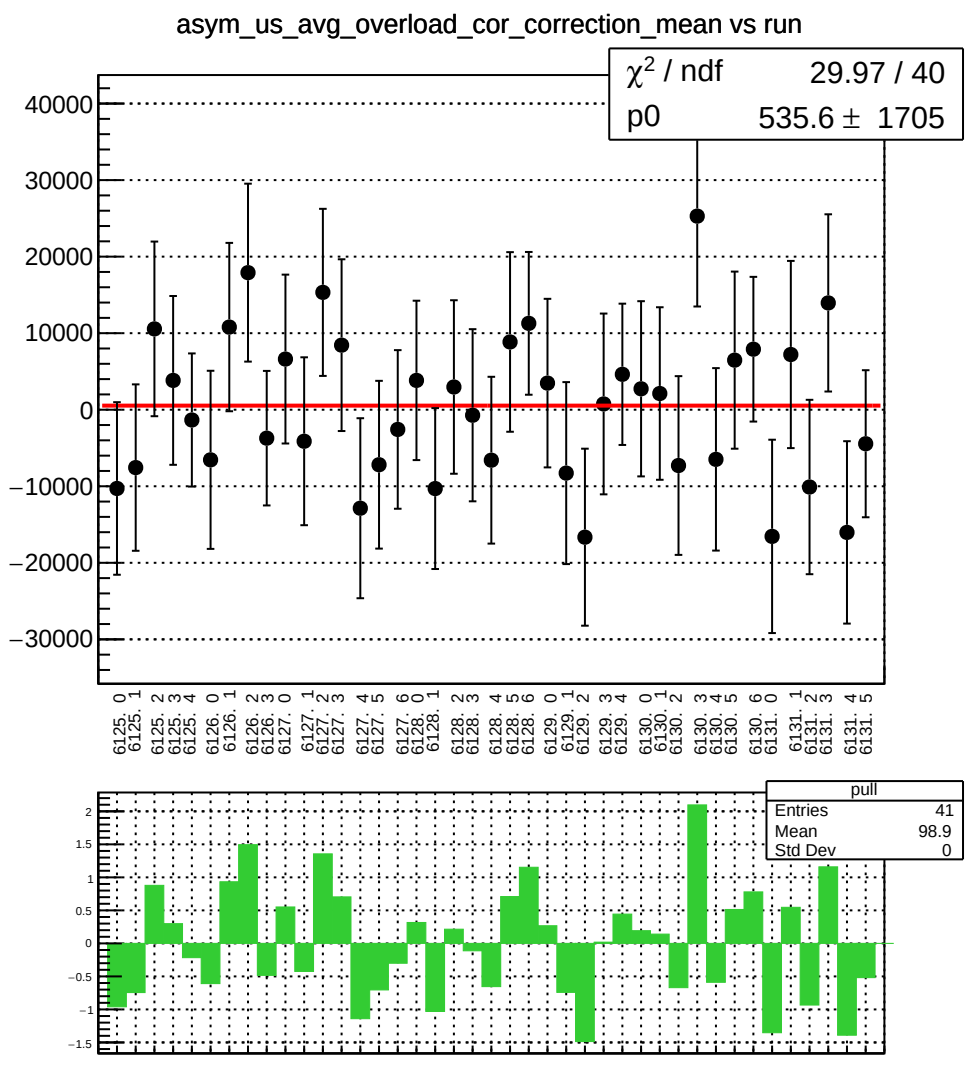
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 29.97 / 40
p0 535.6 ± 1705
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
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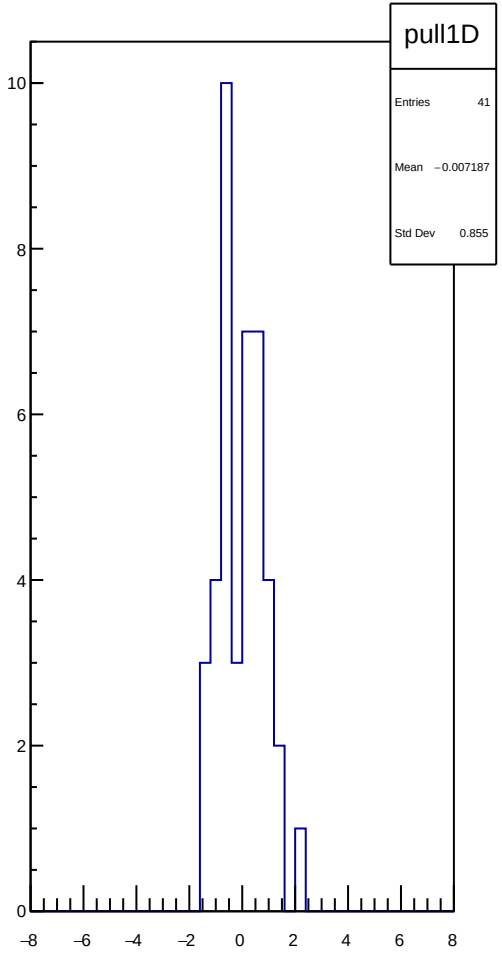
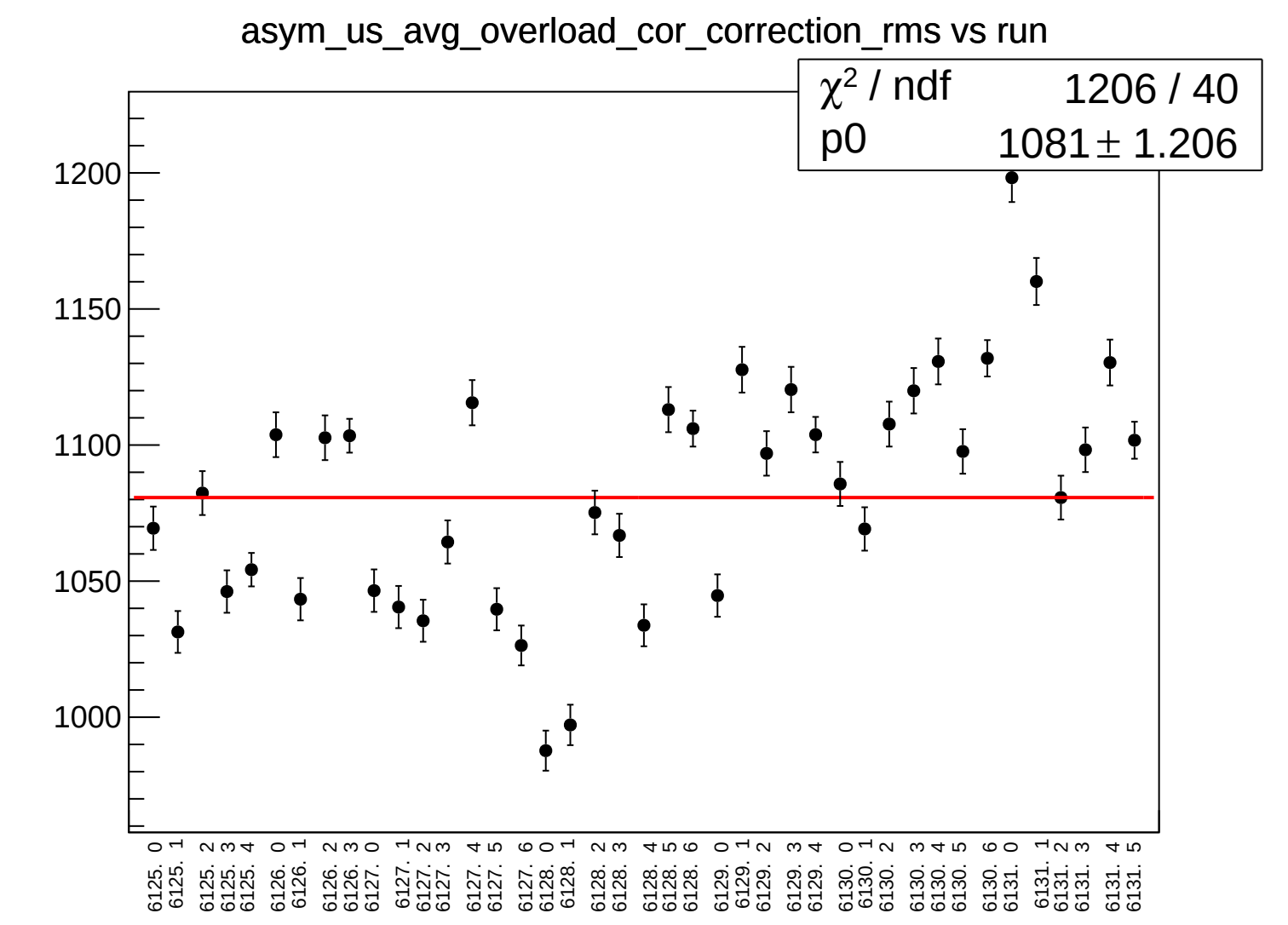
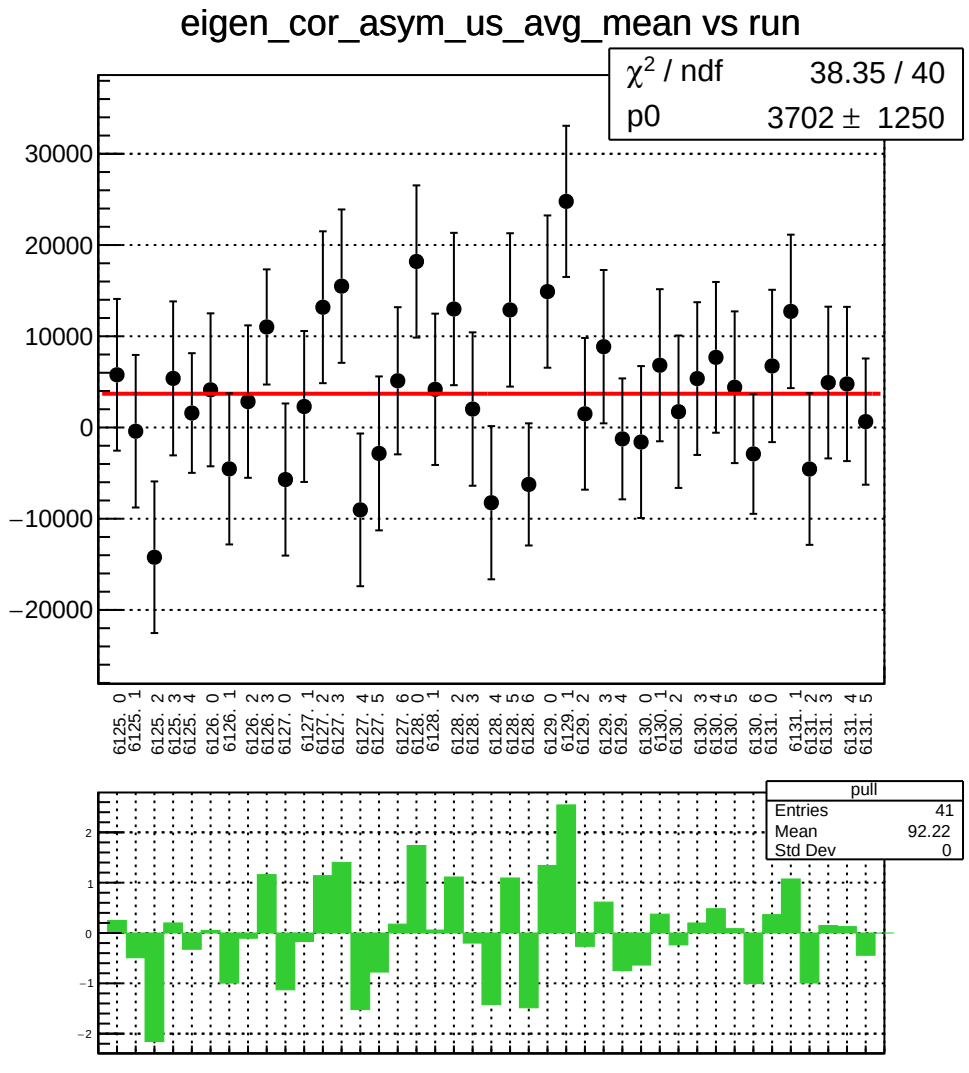
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 98.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.007187
Std Dev 0.855
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 1206 / 40
p0 1081 ± 1.206
1200
1150
1100
1050
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_us_avg_mean vs run
χ² / ndf 38.35 / 40
p0 3702 ± 1250
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6127. 4
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6128. 0
6128. 1
6128. 2
6128. 3
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6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
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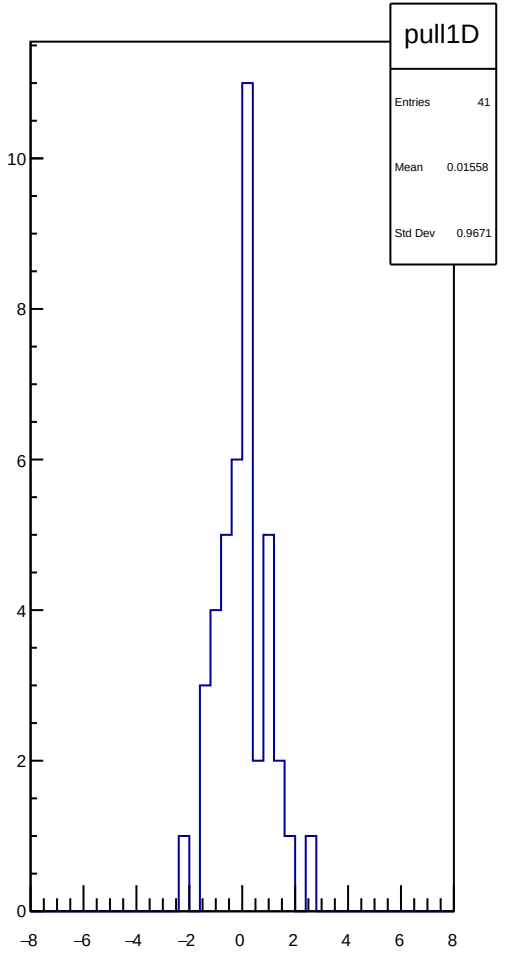
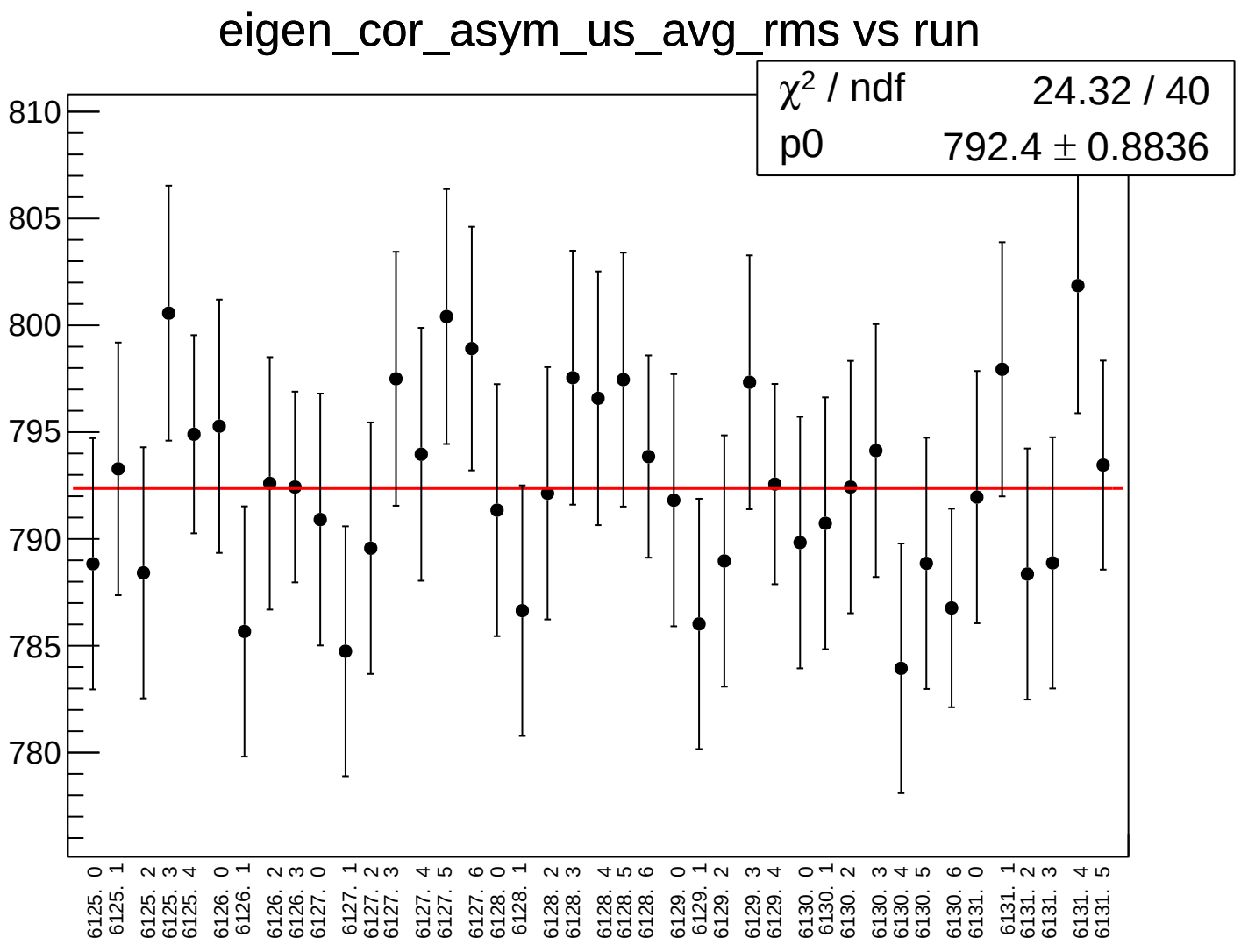
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 92.22
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean 0.01558
Std Dev 0.9671
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_rms vs run
χ² / ndf 24.32 / 40
p0 792.4 ± 0.8836
810
805
800
795
790
785
780
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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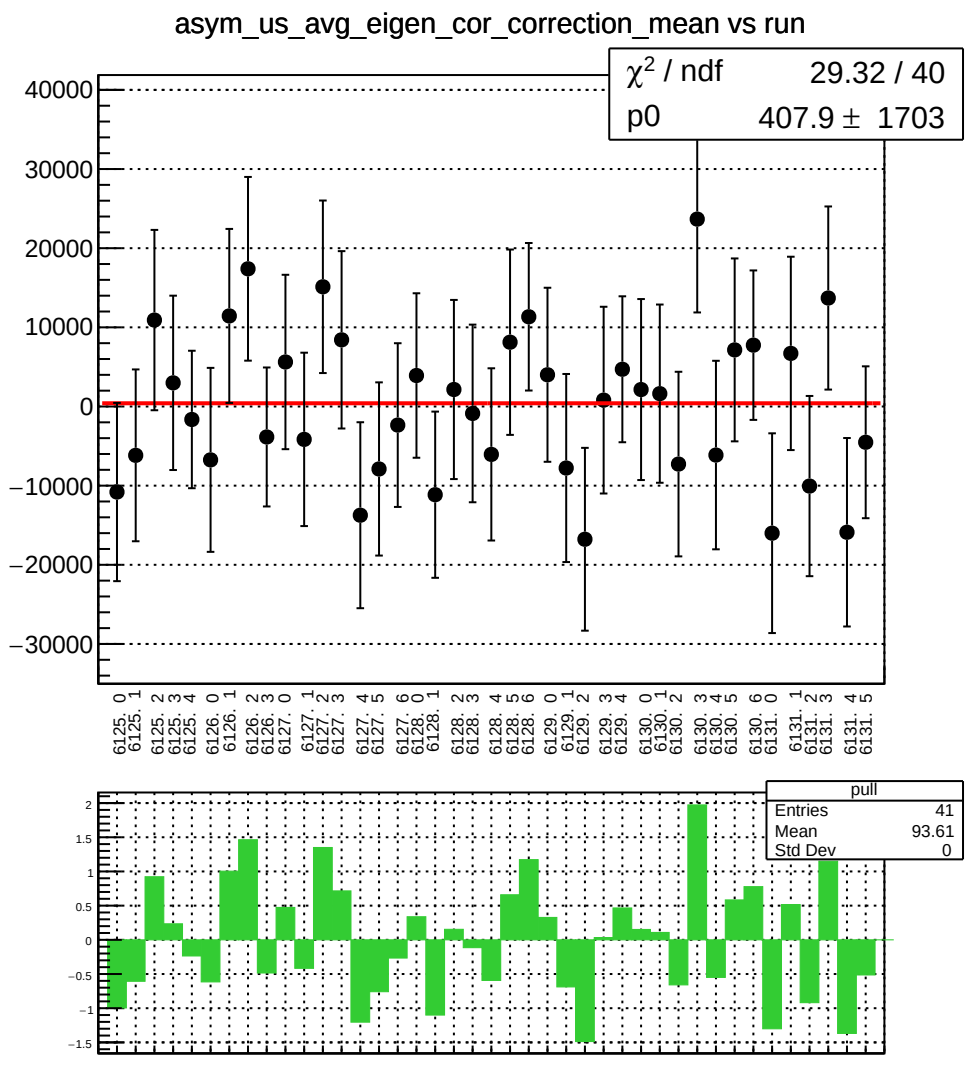
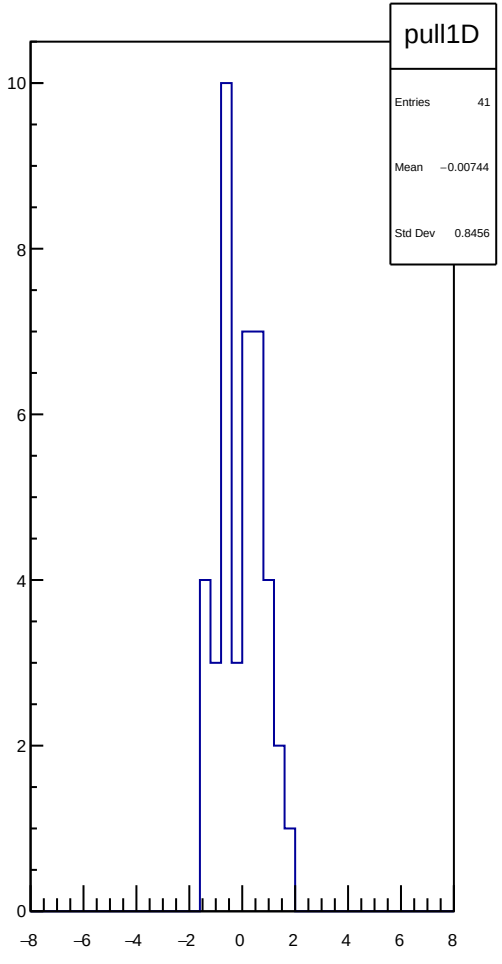
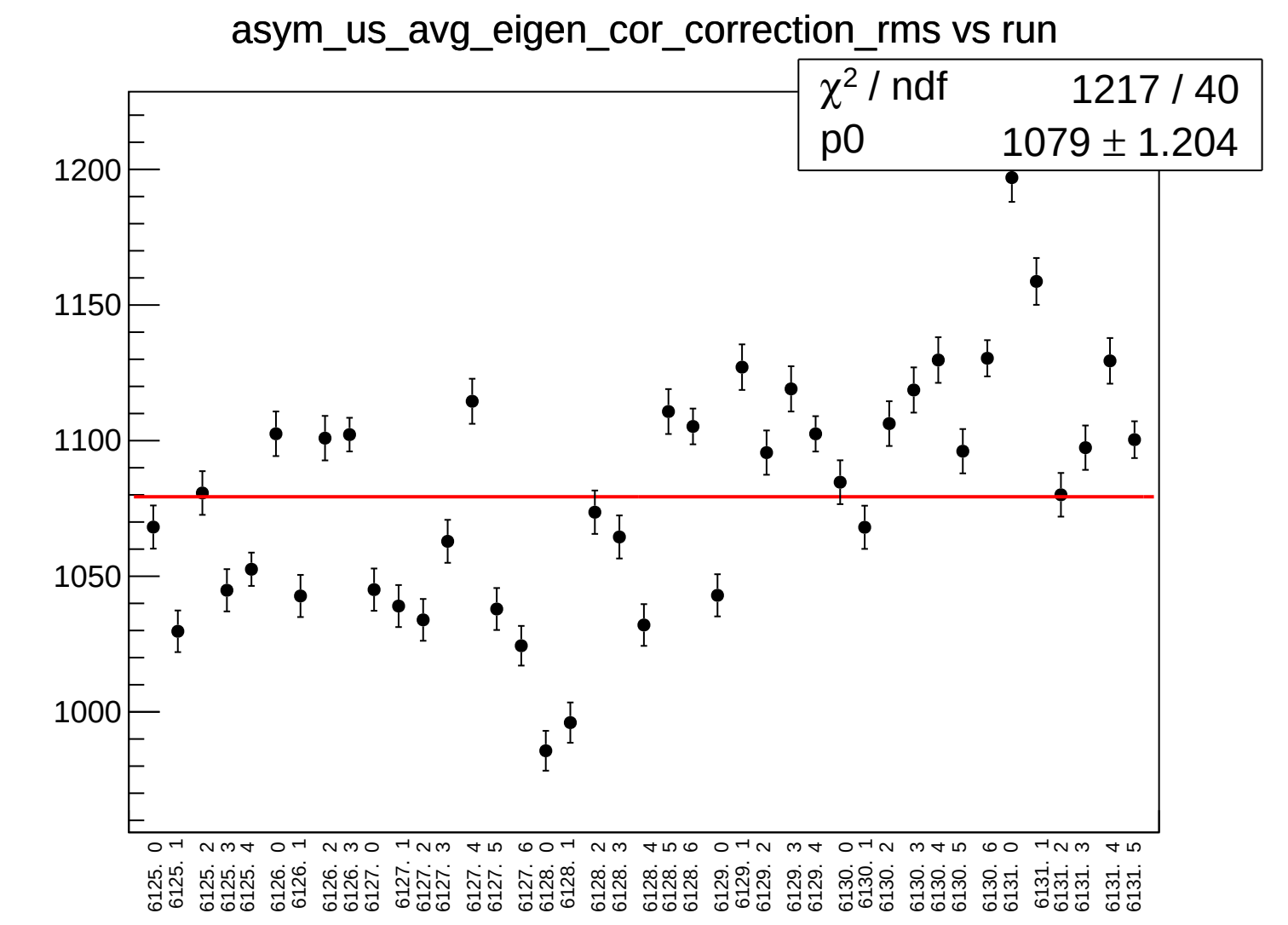
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 29.32 / 40
p0 407.9 ± 1703
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 93.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.00744
Std Dev 0.8456
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 1217 / 40
p0 1079 ± 1.204
1200
1150
1100
1050
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
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6129. 0
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6130. 3
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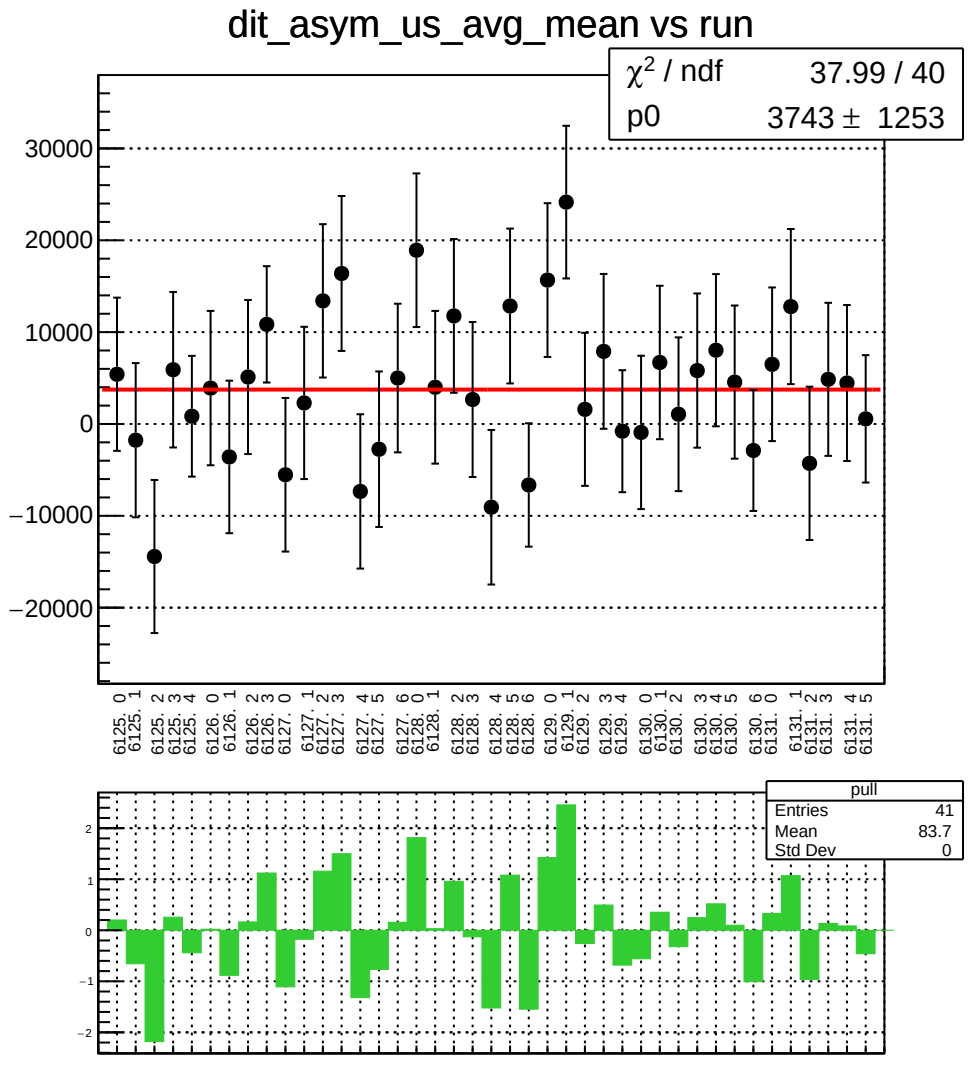
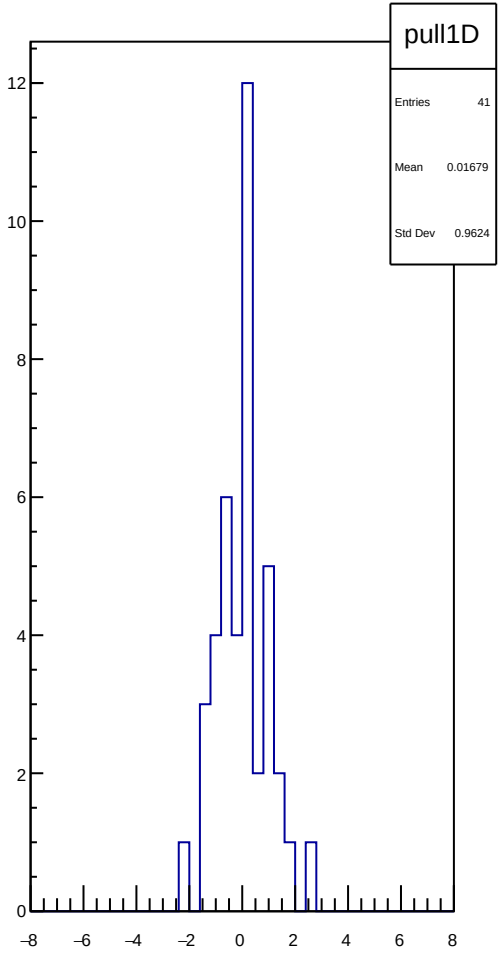
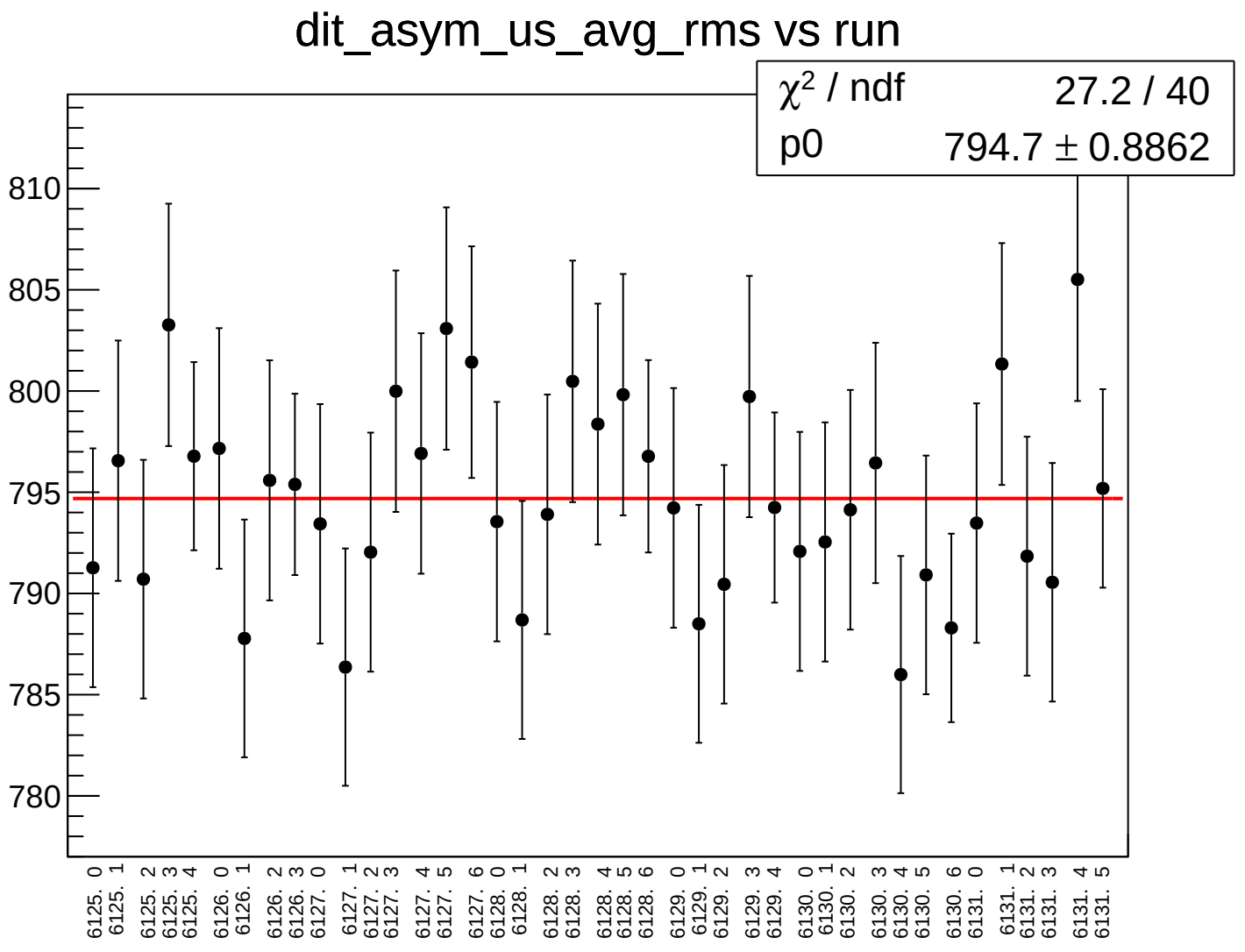
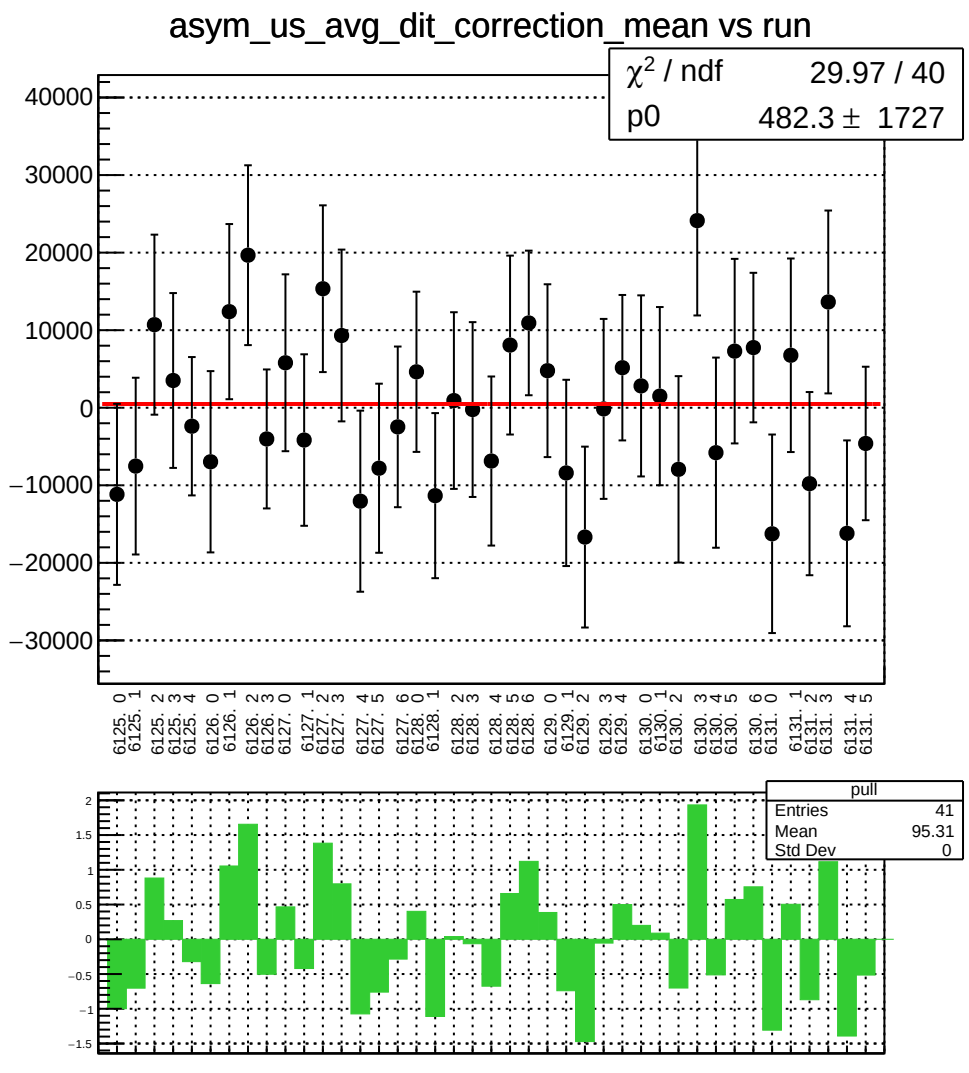
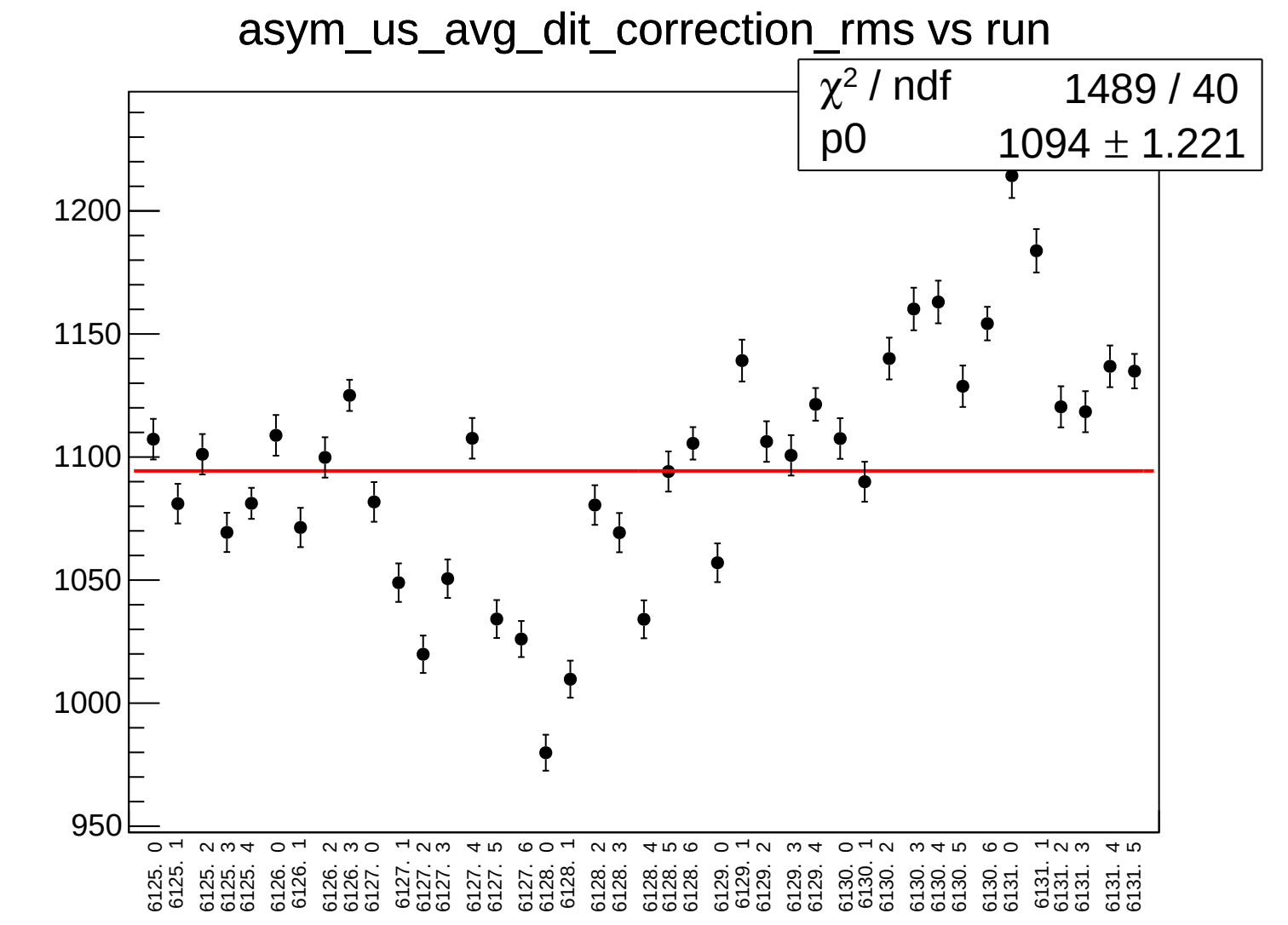
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

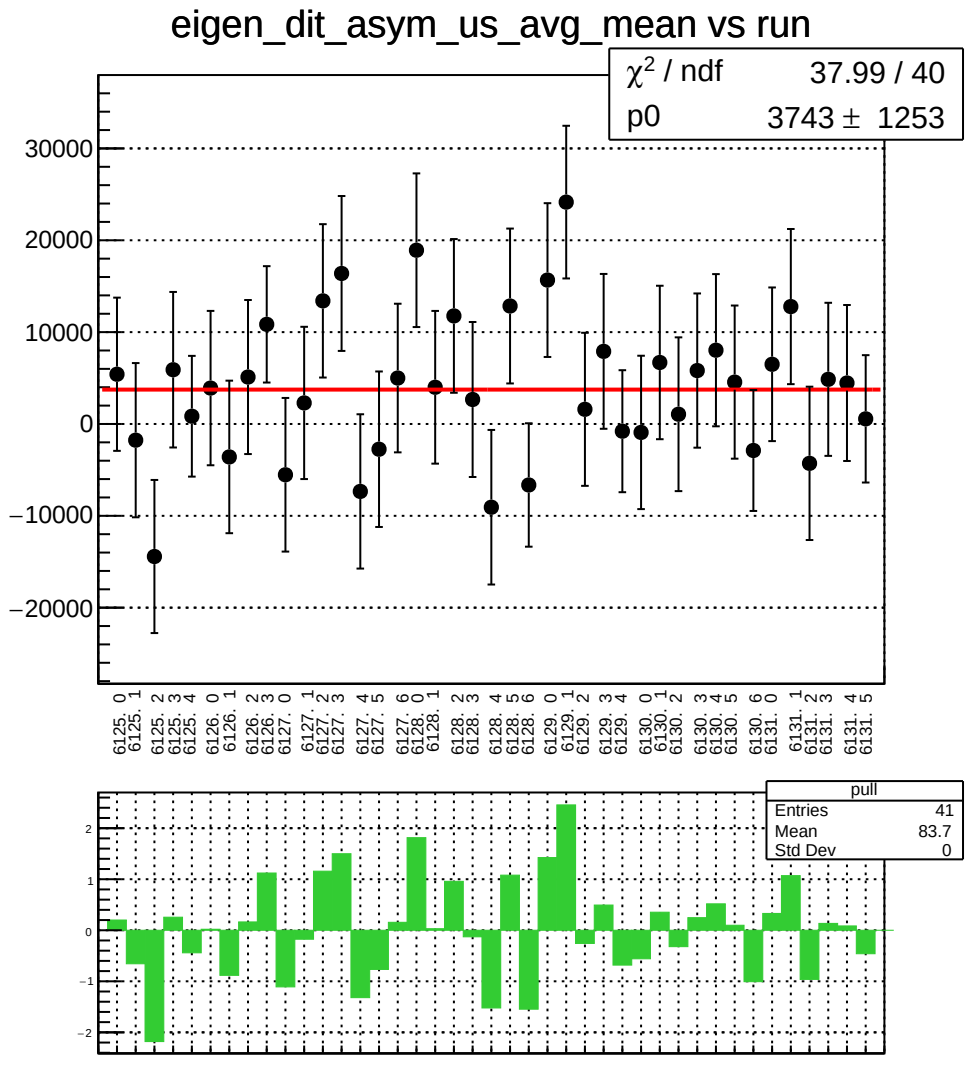

dit_asym_us_avg_mean vs run
χ² / ndf 37.99 / 40
p0 3743 ± 1253
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 83.7
Std Dev 0
2
1
0
−1
−2

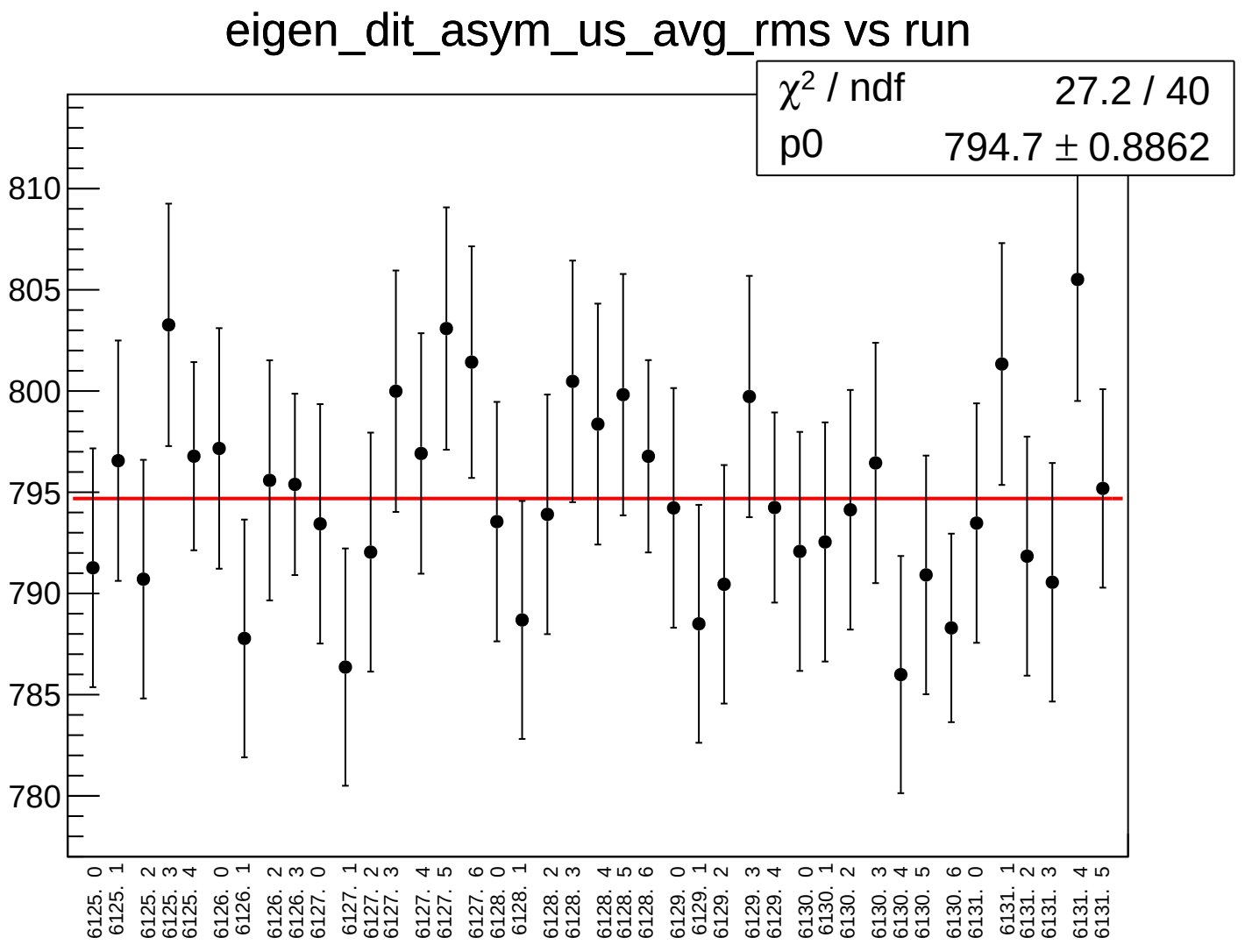

pull1D
Entries 41
Mean 0.01679
Std Dev 0.9624
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

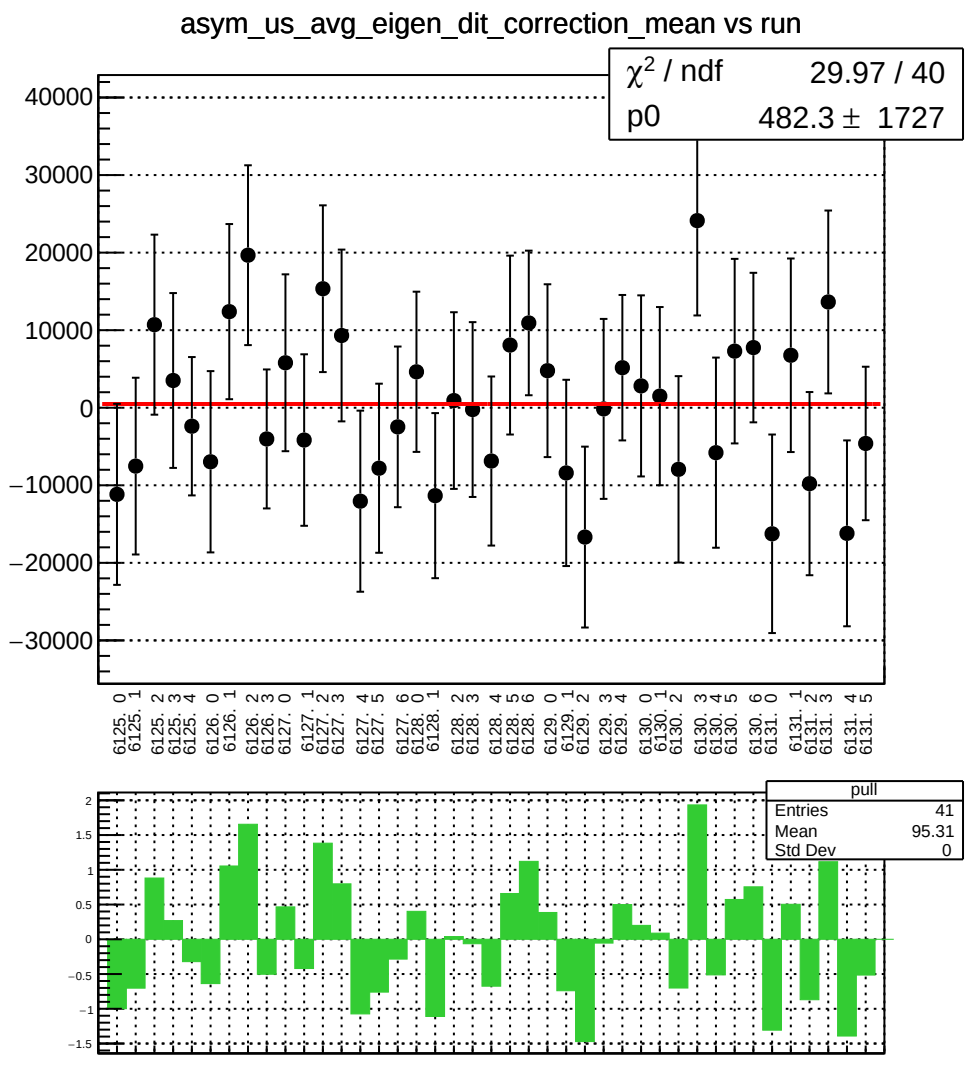

dit_asym_us_avg_rms vs run
χ² / ndf 27.2 / 40
p0 794.7 ± 0.8862
810
805
800
795
790
785
780
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

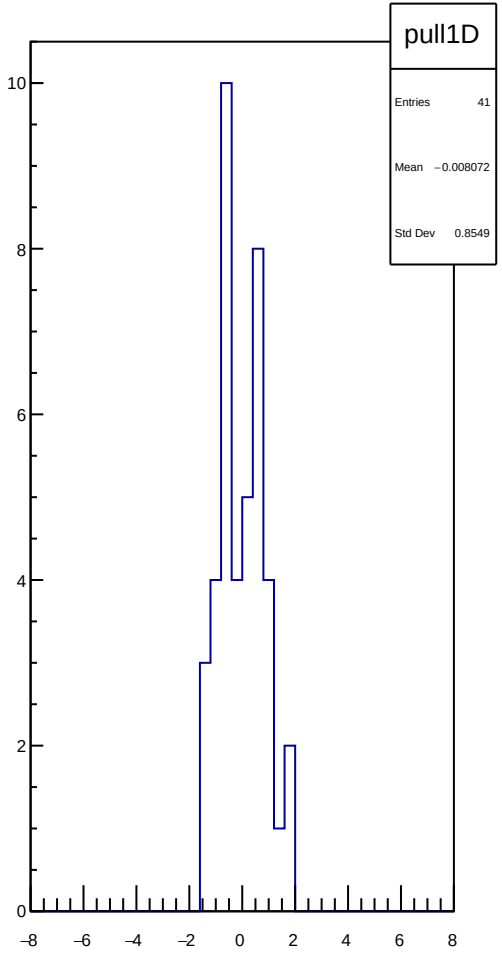

asym_us_avg_dit_correction_mean vs run
χ² / ndf 29.97 / 40
p0 482.3 ± 1727
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 95.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.008072
Std Dev 0.8549
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

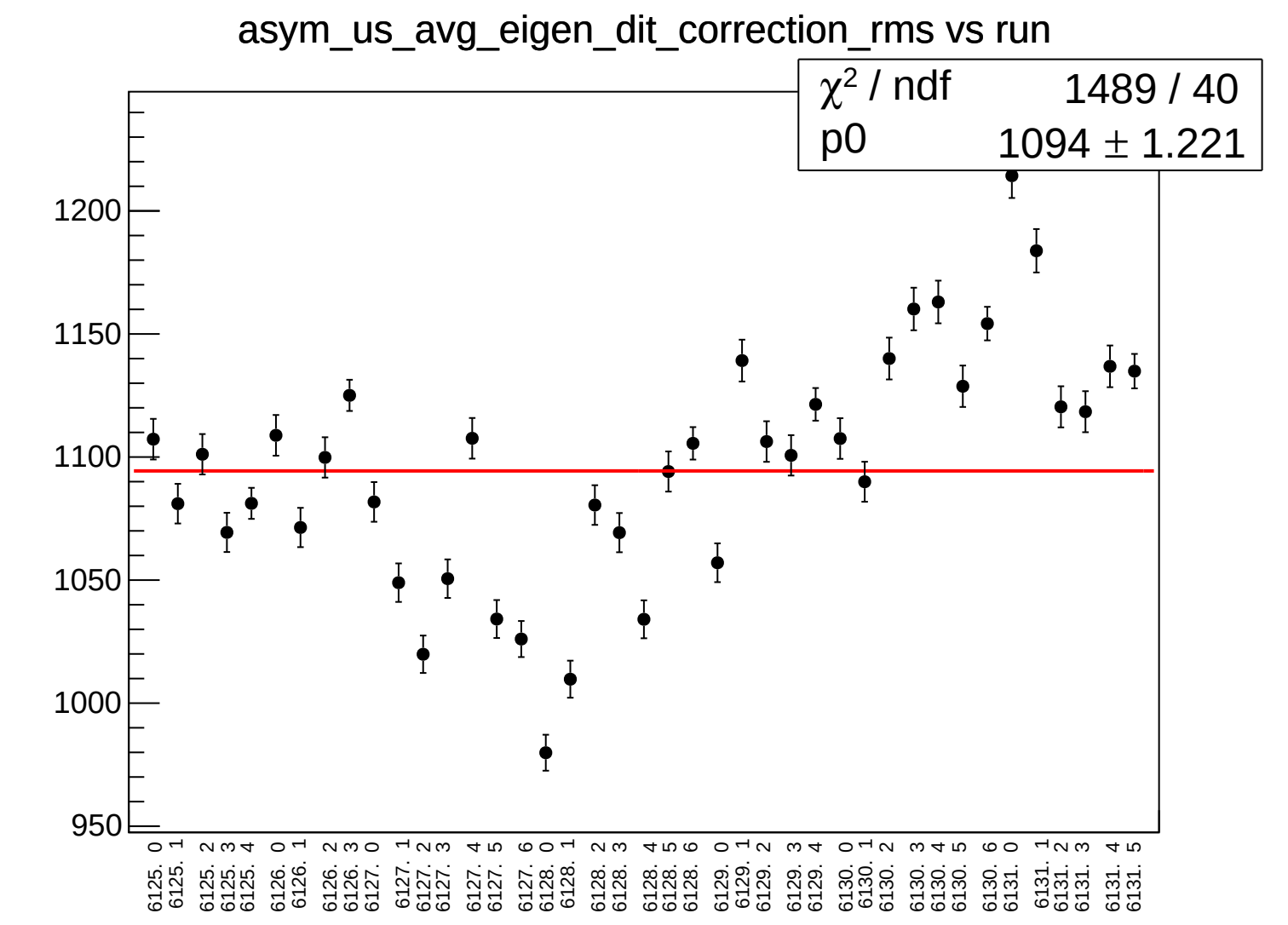

asym_us_avg_dit_correction_rms vs run
χ² / ndf 1489 / 40
p0 1094 ± 1.221
1200
1150
1100
1050
1000
950
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

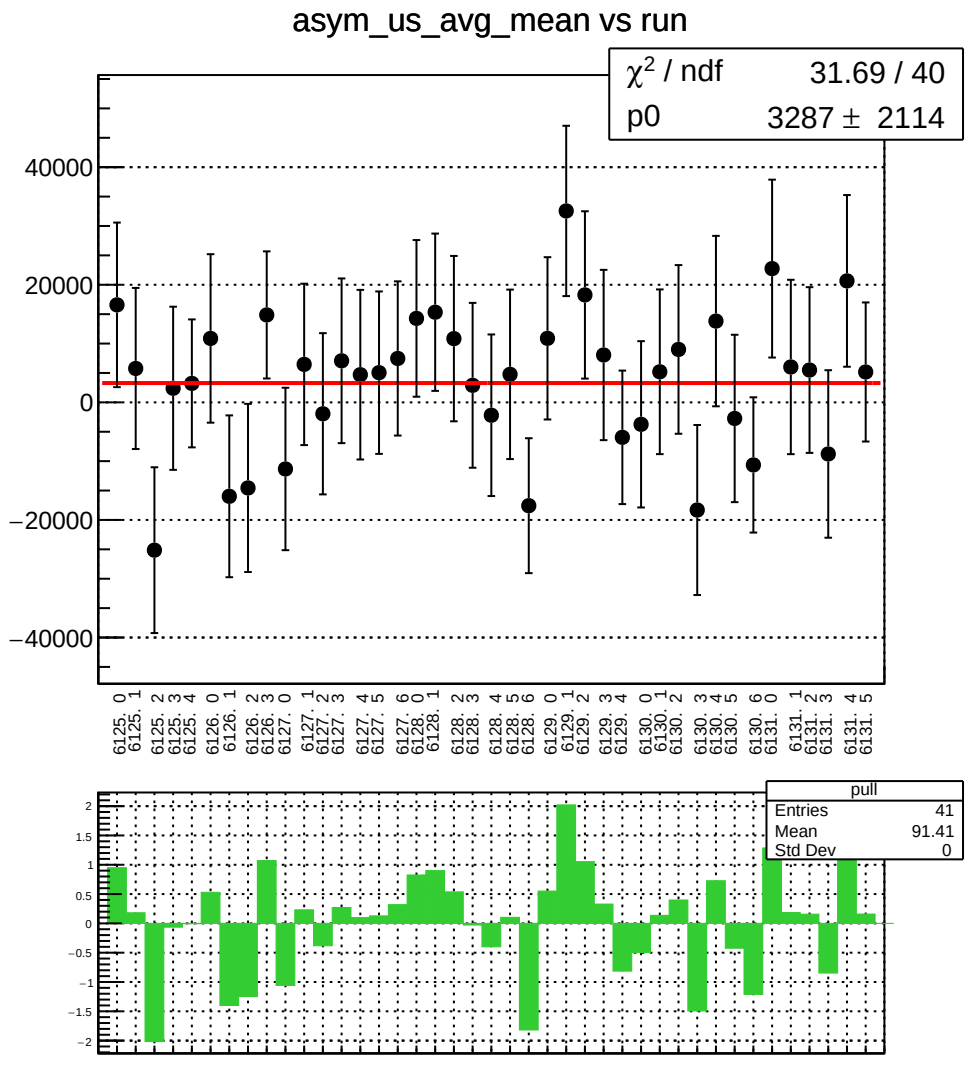

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 37.99 / 40
p0 3743 ± 1253
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 83.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01679
Std Dev 0.9624
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

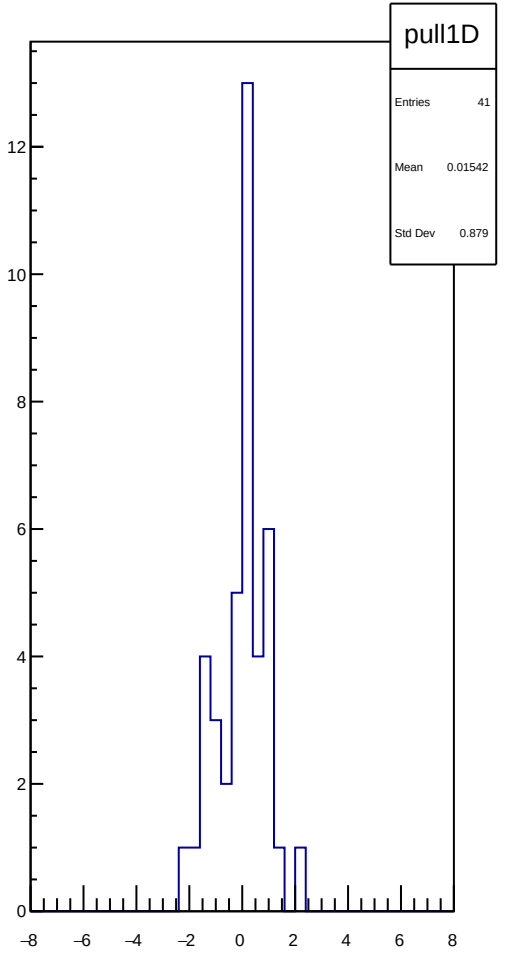

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 27.2 / 40
p0 794.7 ± 0.8862
810
805
800
795
790
785
780
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

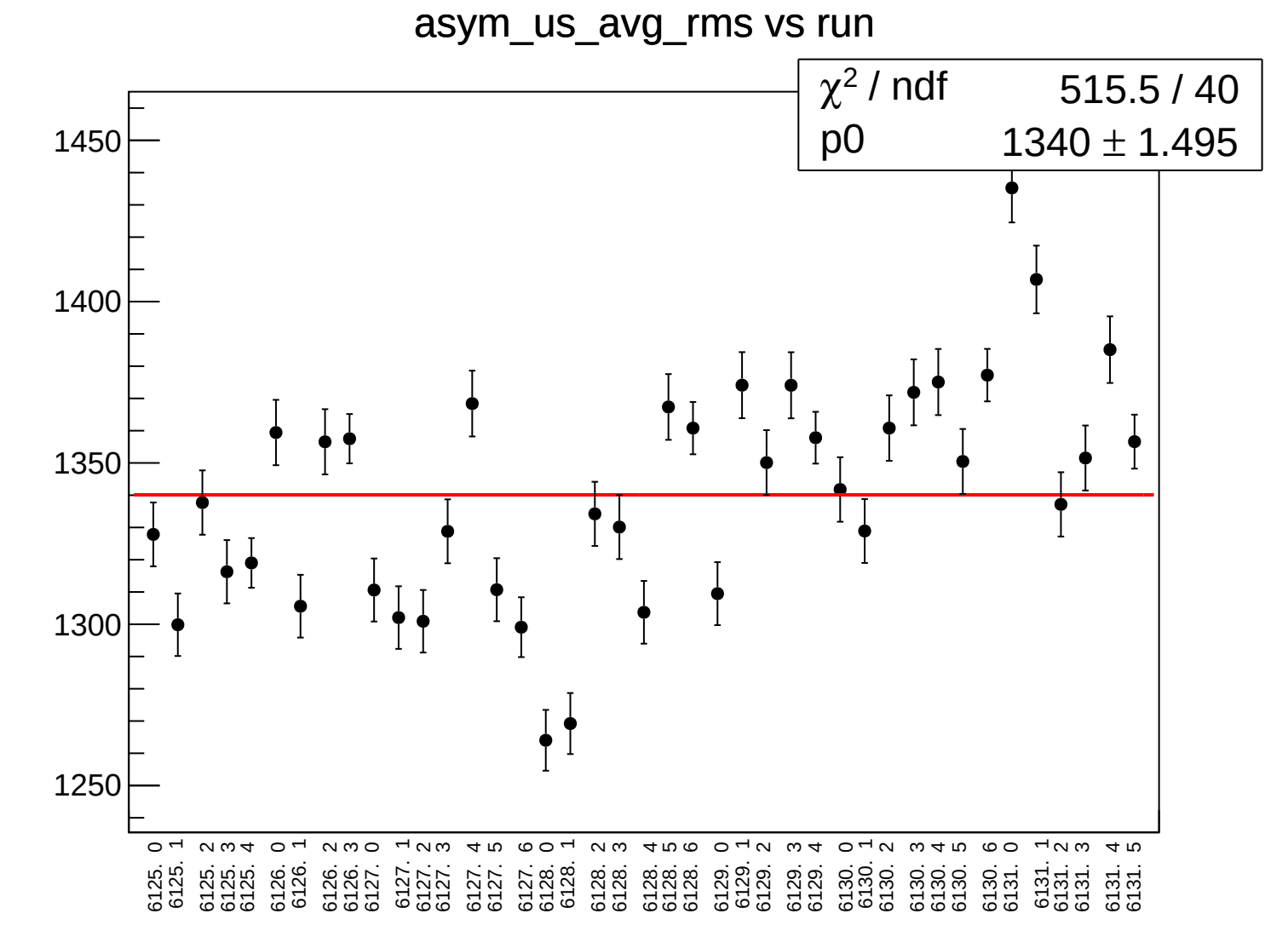

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 29.97 / 40
p0 482.3 ± 1727
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 95.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

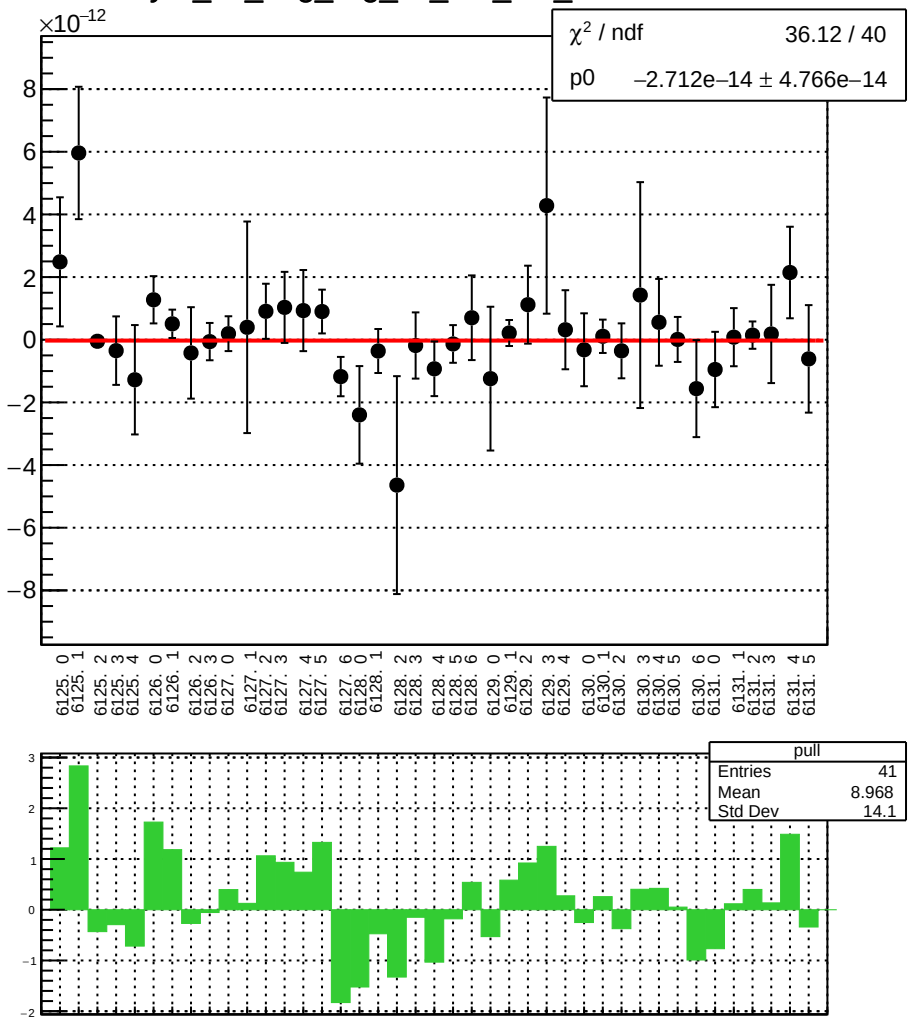

pull1D
Entries 41
Mean −0.008072
Std Dev 0.8549
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

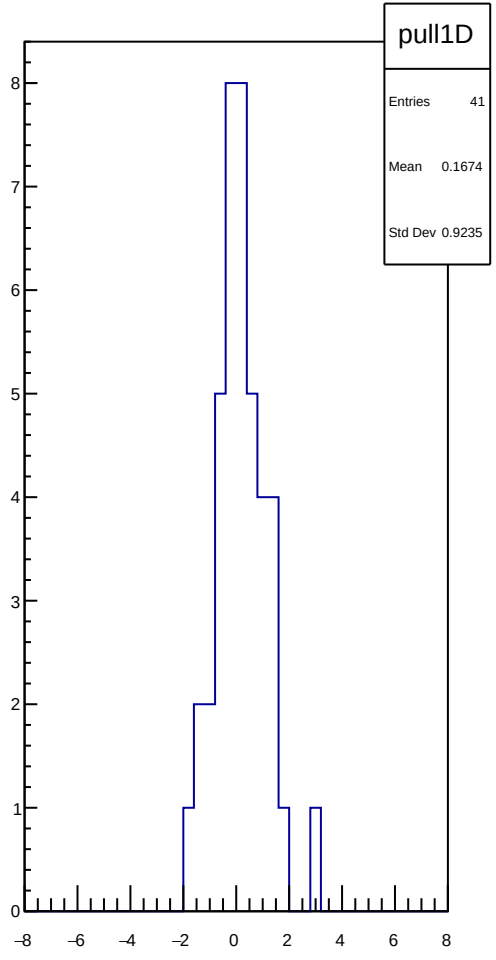

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 1489 / 40
p0 1094 ± 1.221
1200
1150
1100
1050
1000
950
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

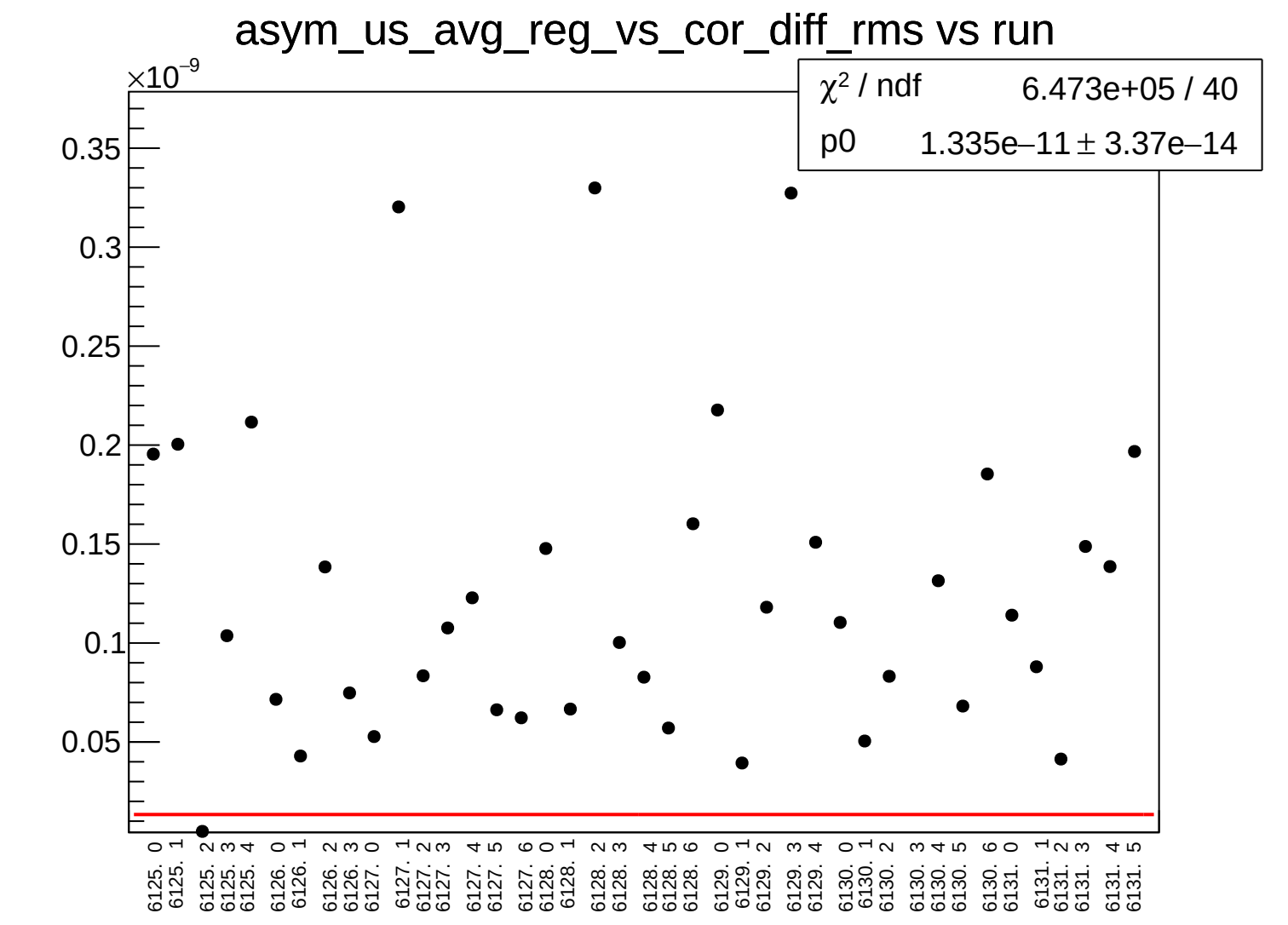

asym_us_avg_mean vs run
χ² / ndf 31.69 / 40
p0 3287 ± 2114
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 91.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

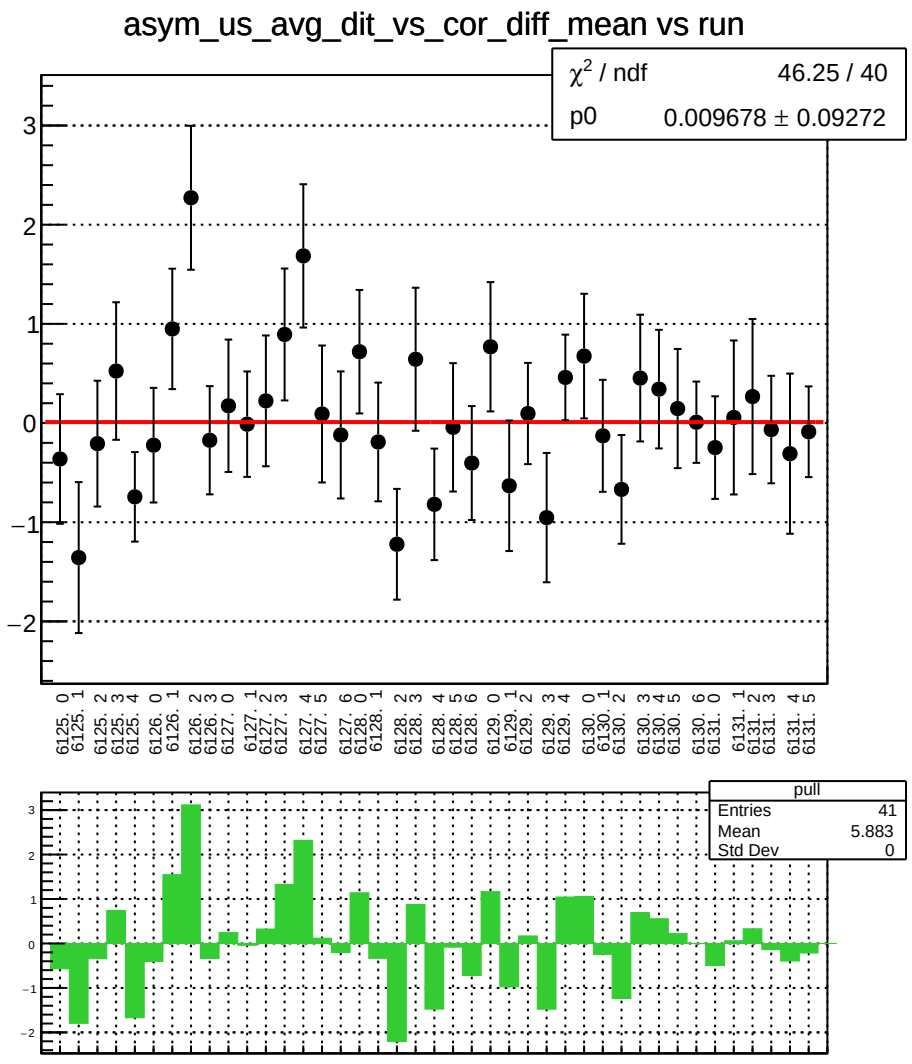

pull1D
Entries 41
Mean 0.01542
Std Dev 0.879
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

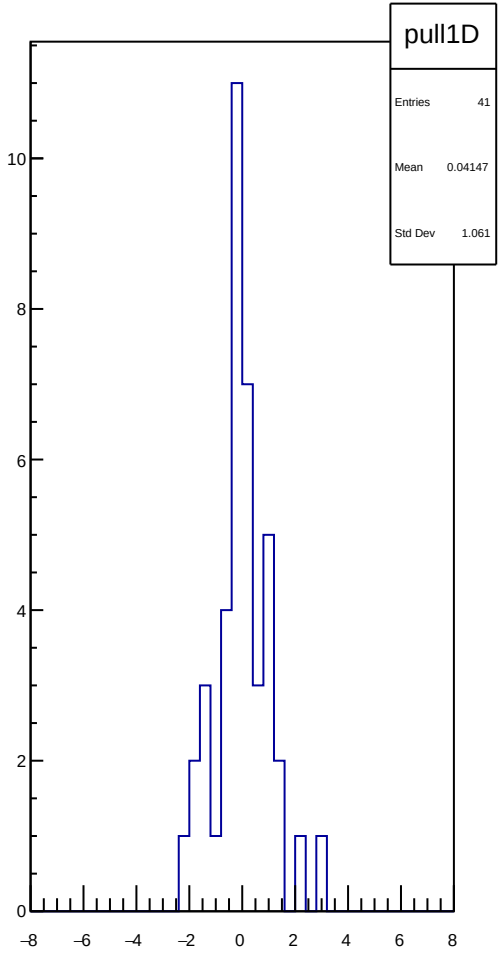

asym_us_avg_rms vs run
χ² / ndf 515.5 / 40
p0 1340 ± 1.495
1450
1400
1350
1300
1250
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

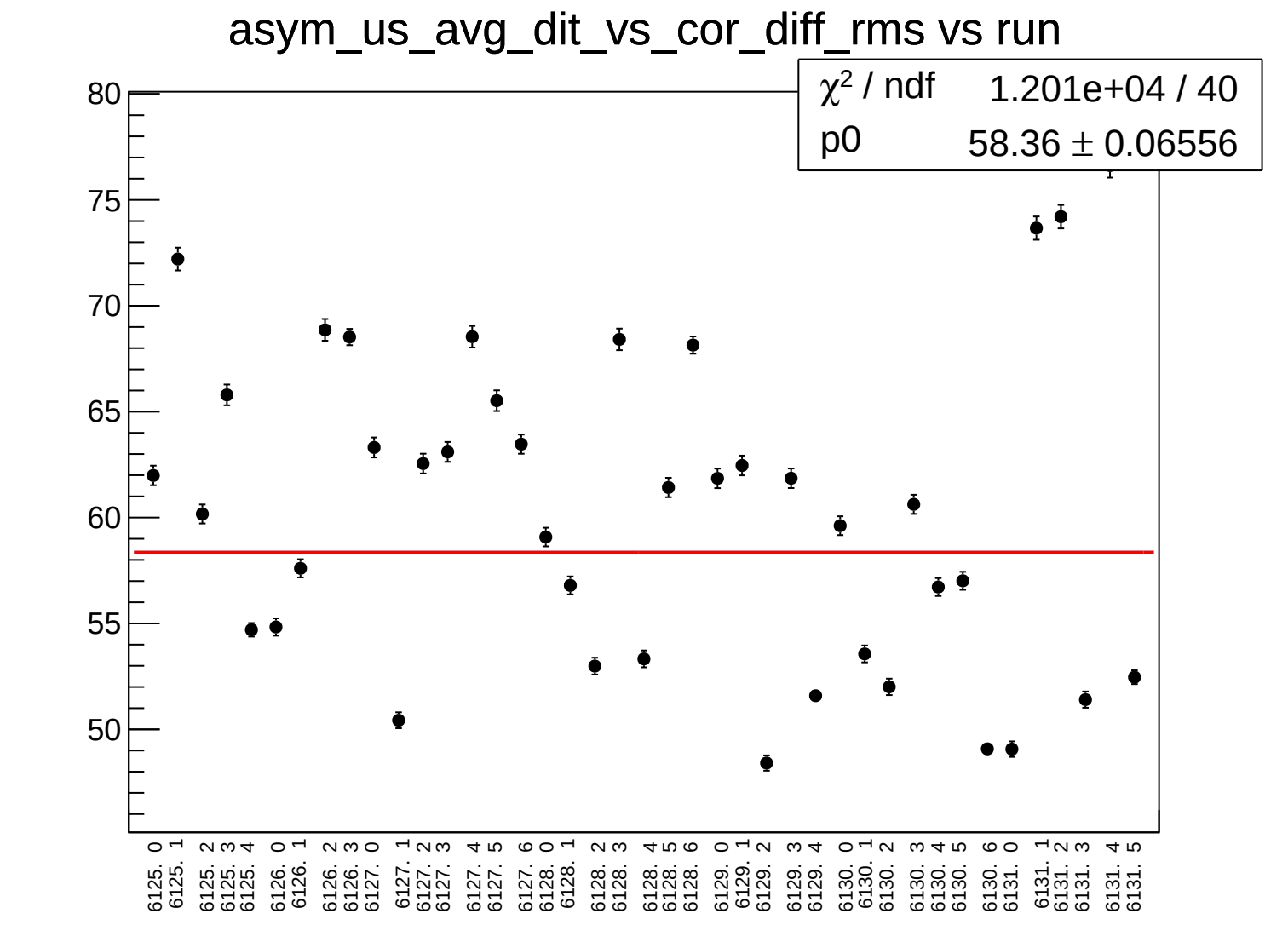

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 36.12 / 40
p0 −2.712e−14 ± 4.766e−14
pull
Entries 41
Mean 8.968
Std Dev 14.1

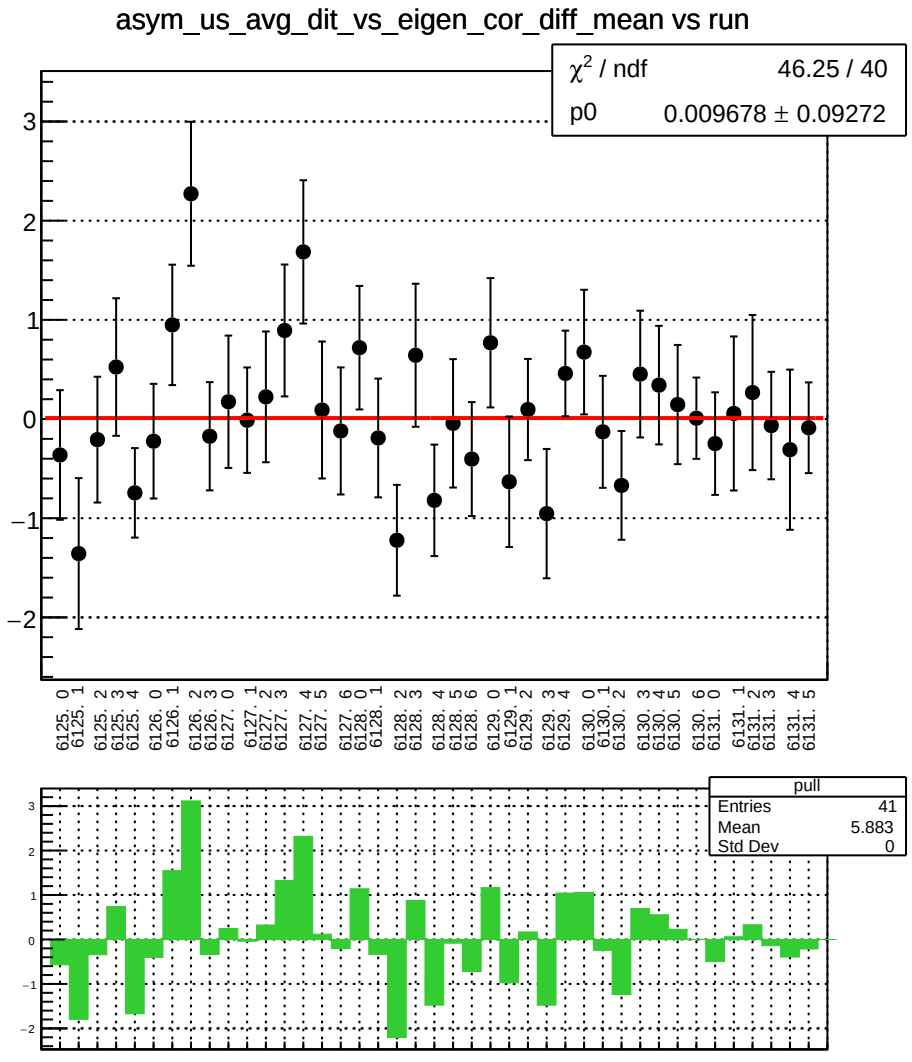

pull1D
Entries 41
Mean 0.1674
Std Dev 0.9235

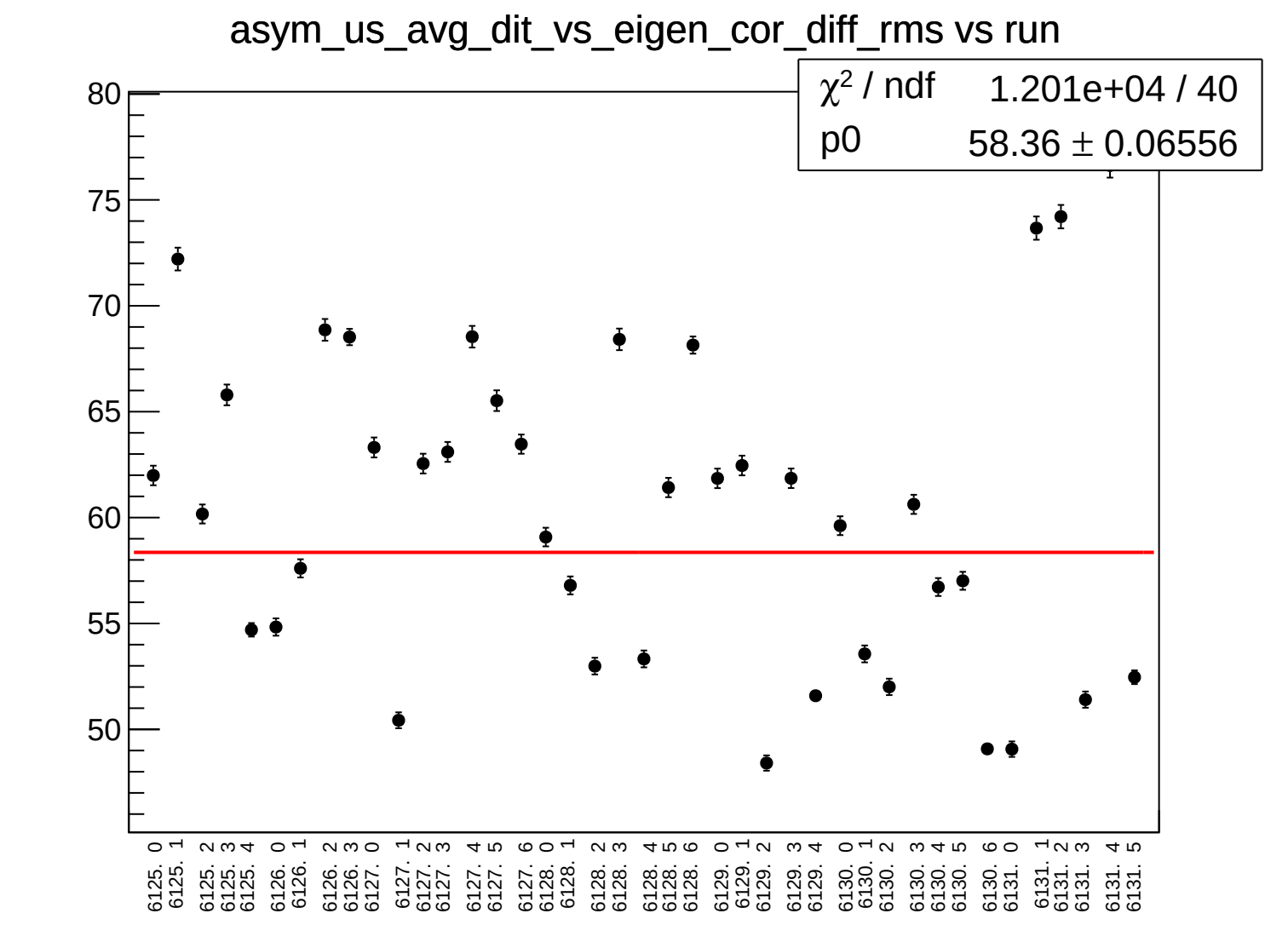

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.473e+05 / 40
p0 1.335e−11 ± 3.37e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

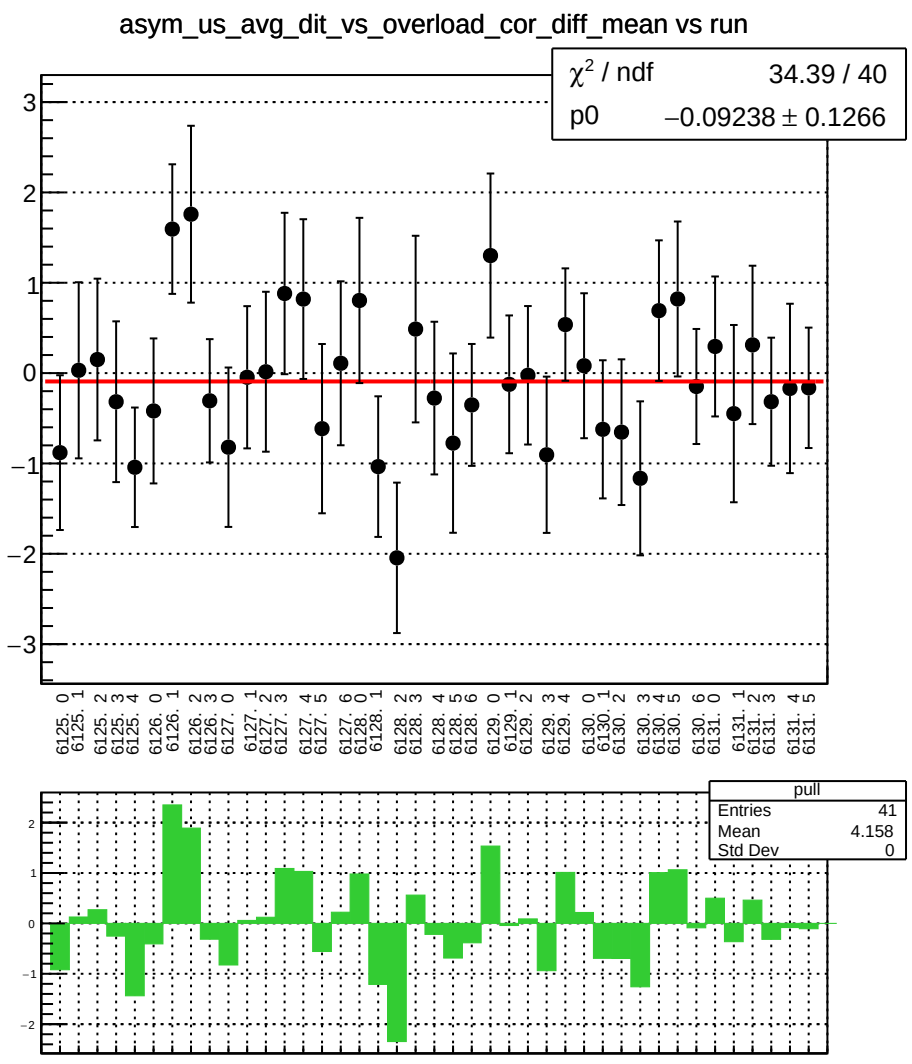

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 46.25 / 40
p0 0.009678 ± 0.09272
pull
Entries 41
Mean 5.883
Std Dev 0

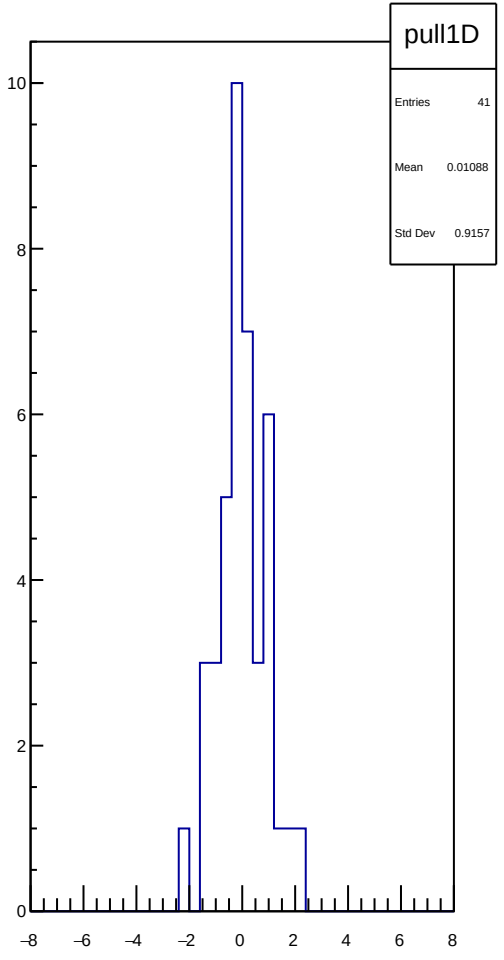

pull1D
Entries 41
Mean 0.04147
Std Dev 1.061

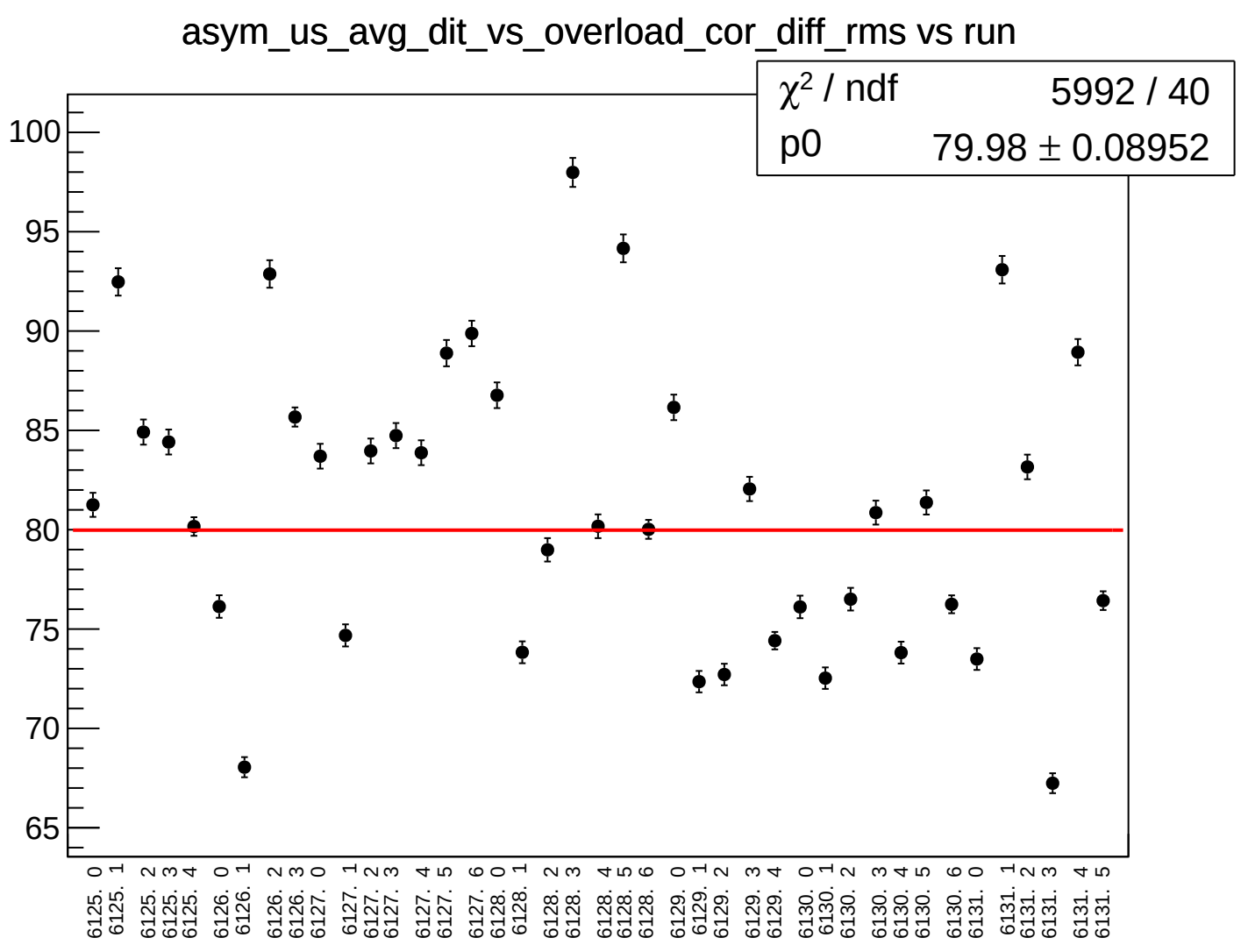

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.201e+04 / 40
p0 58.36 ± 0.06556
80
75
70
65
60
55
50
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

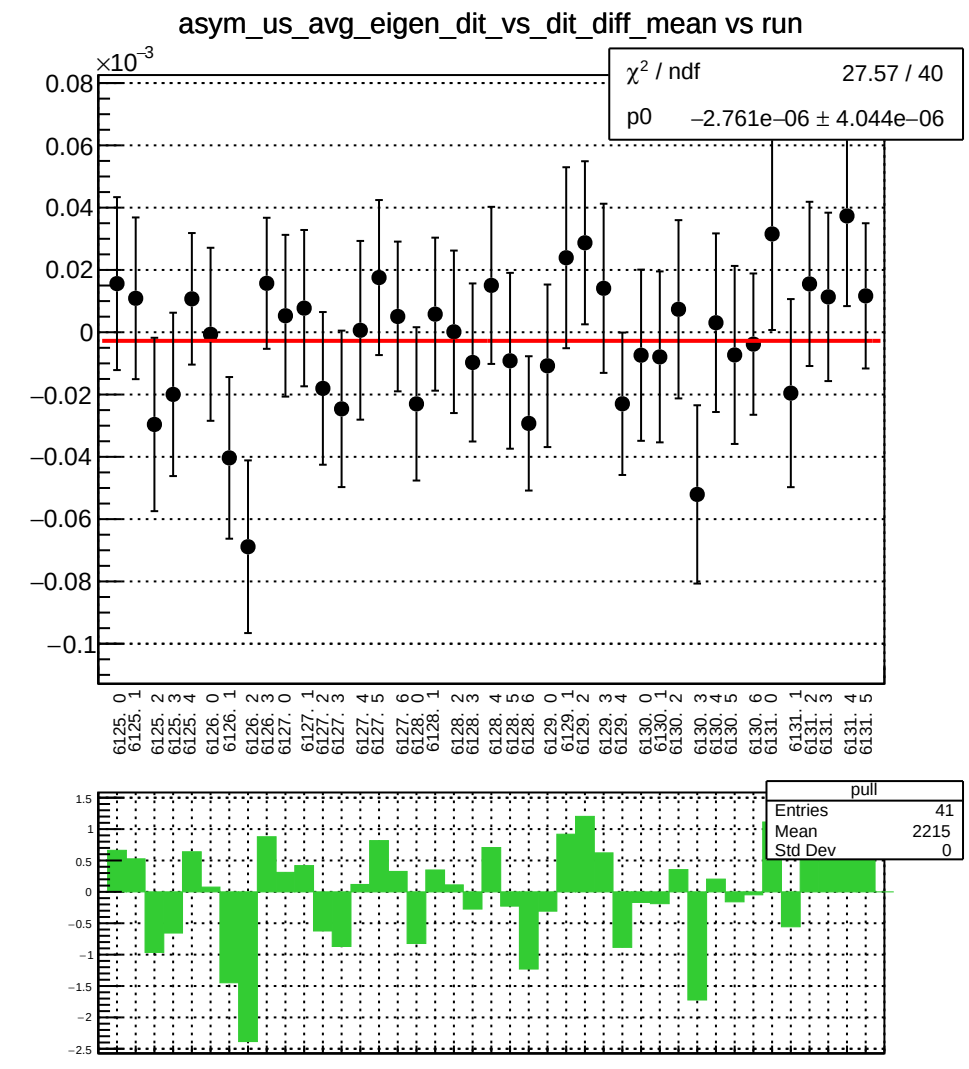

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.25 / 40
p0 0.009678 ± 0.09272
pull
Entries 41
Mean 5.883
Std Dev 0
pull1D
Entries 41
Mean 0.04147
Std Dev 1.061

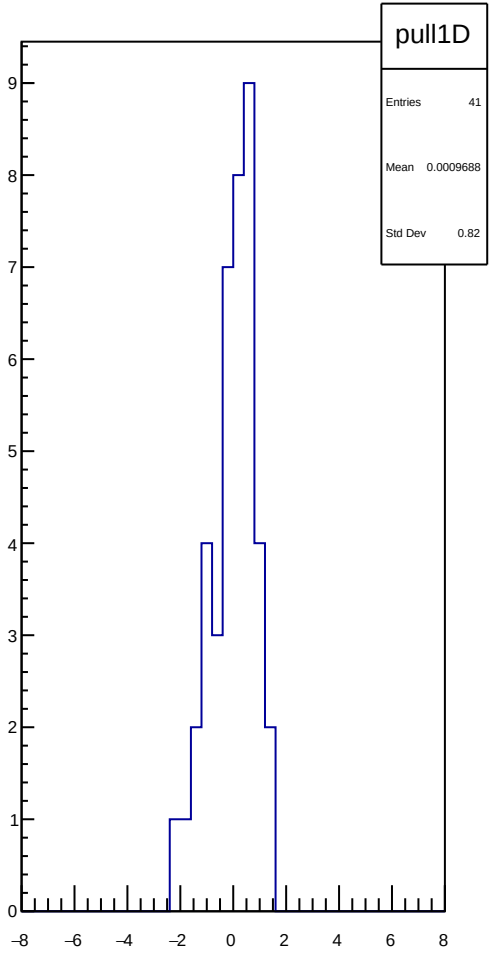

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.201e+04 / 40
p0 58.36 ± 0.06556
80
75
70
65
60
55
50
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

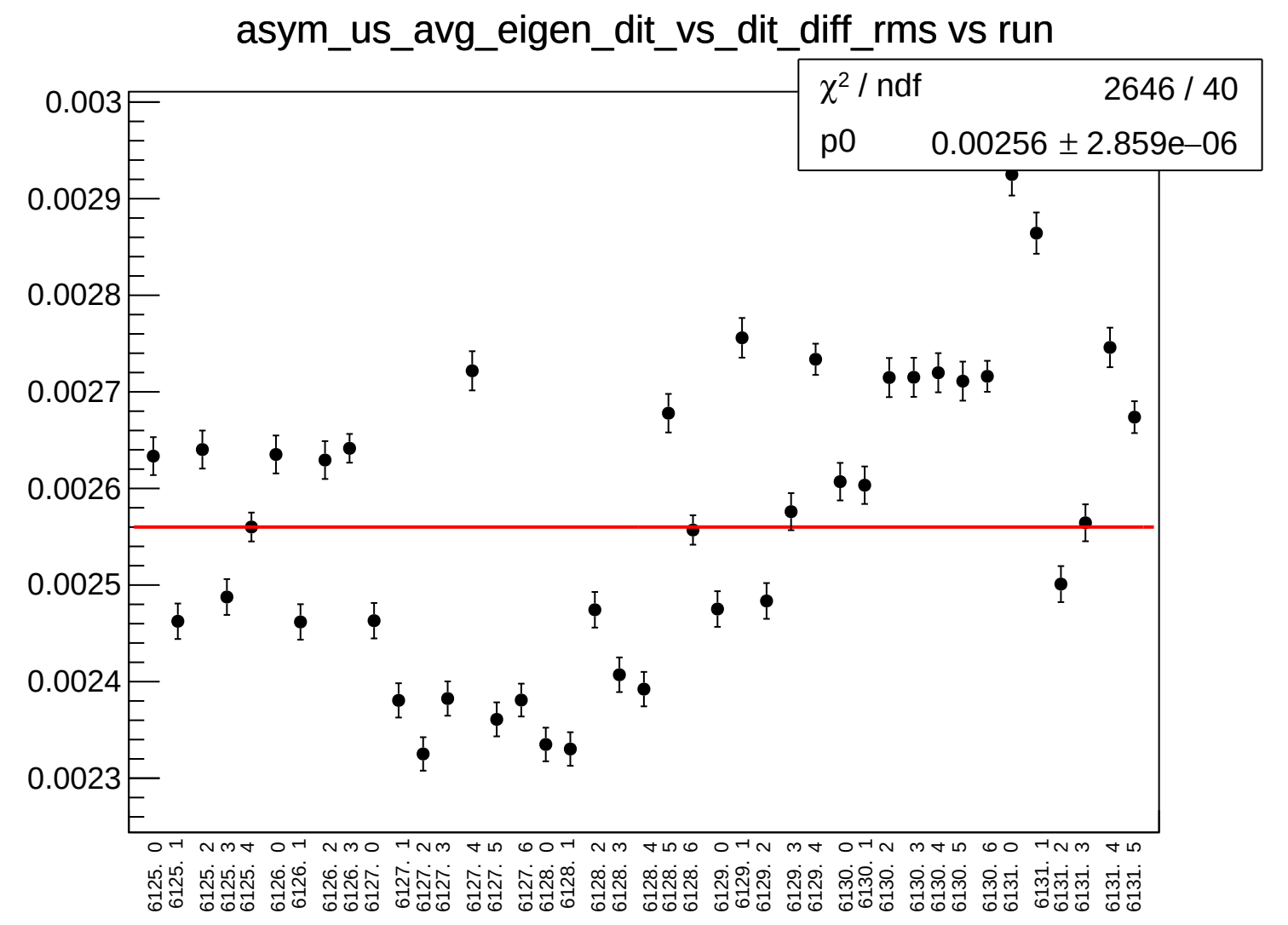

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 34.39 / 40
p0 −0.09238 ± 0.1266
pull
Entries 41
Mean 4.158
Std Dev 0

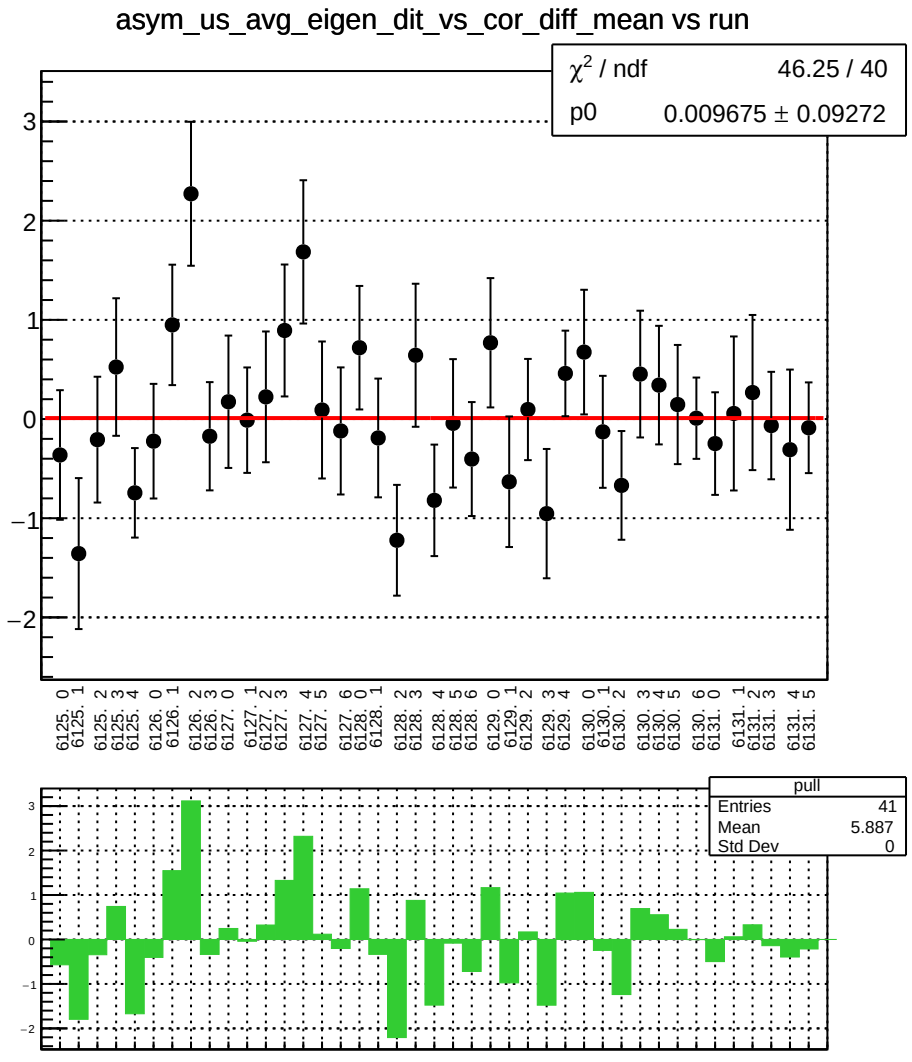

pull1D
Entries 41
Mean 0.01088
Std Dev 0.9157

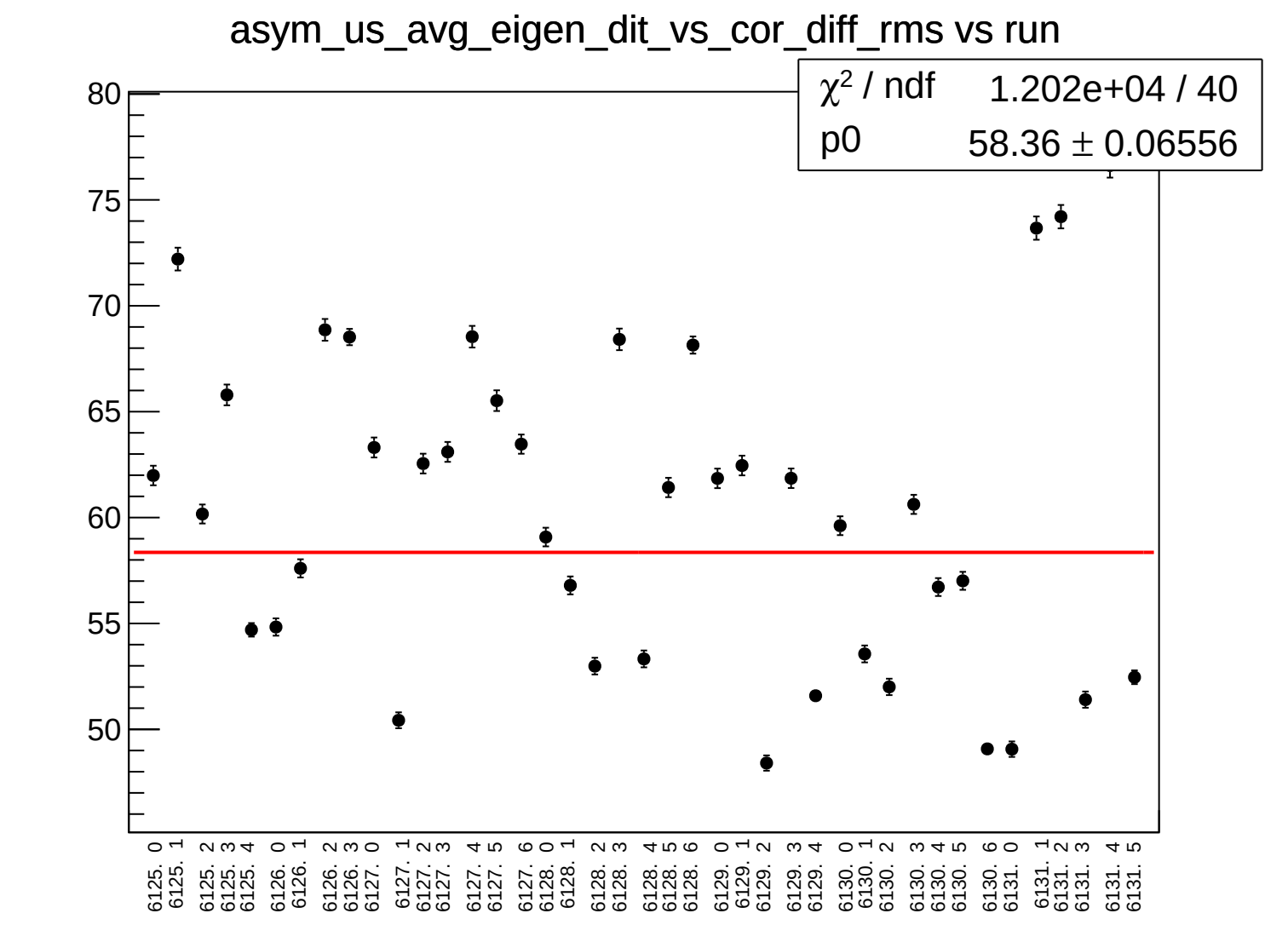

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5992 / 40
p0 79.98 ± 0.08952
100
95
90
85
80
75
70
65
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

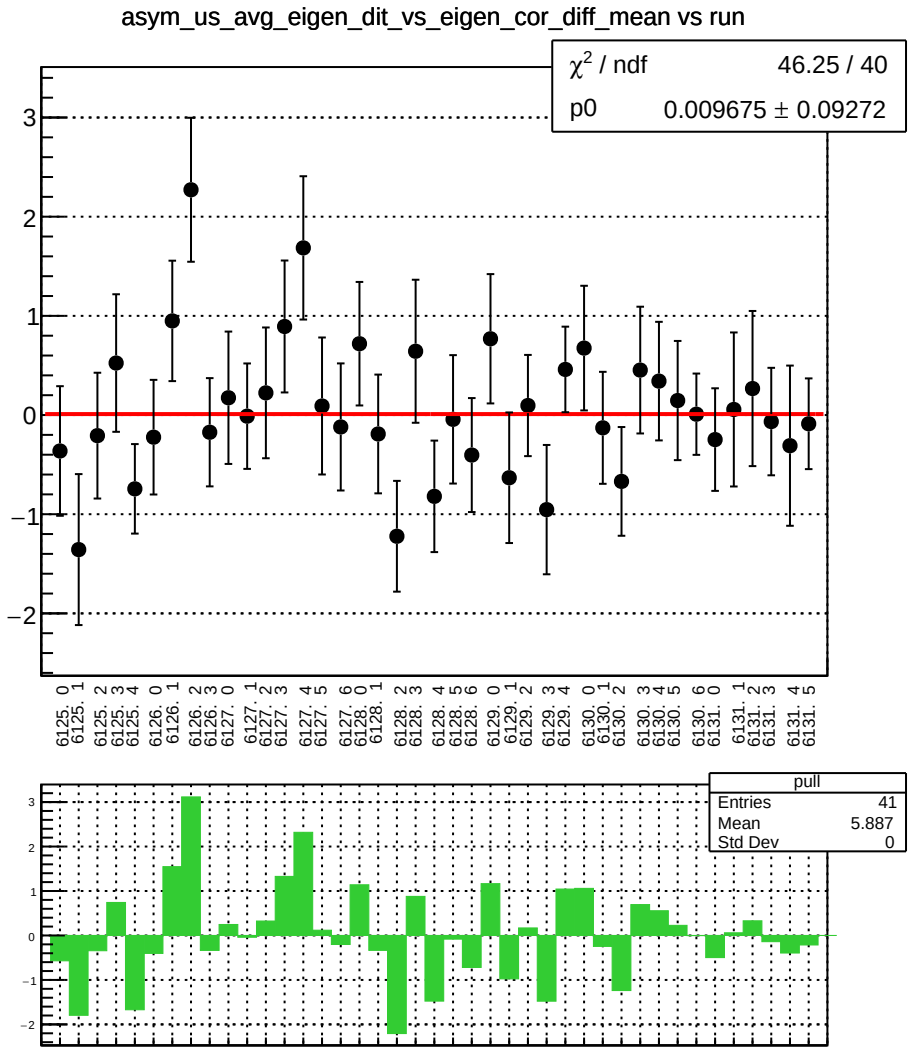

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 27.57 / 40
p0 −2.761e−06 ± 4.044e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 2215
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

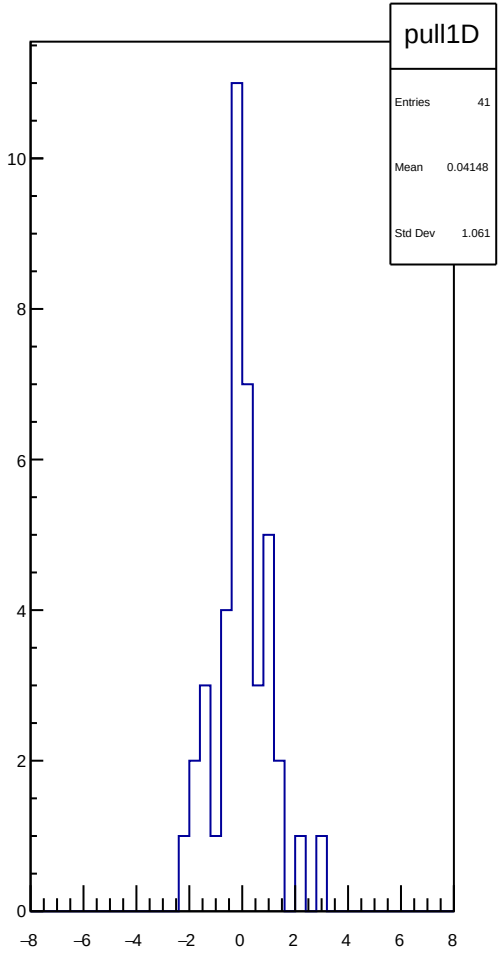

pull1D
Entries 41
Mean 0.0009688
Std Dev 0.82
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

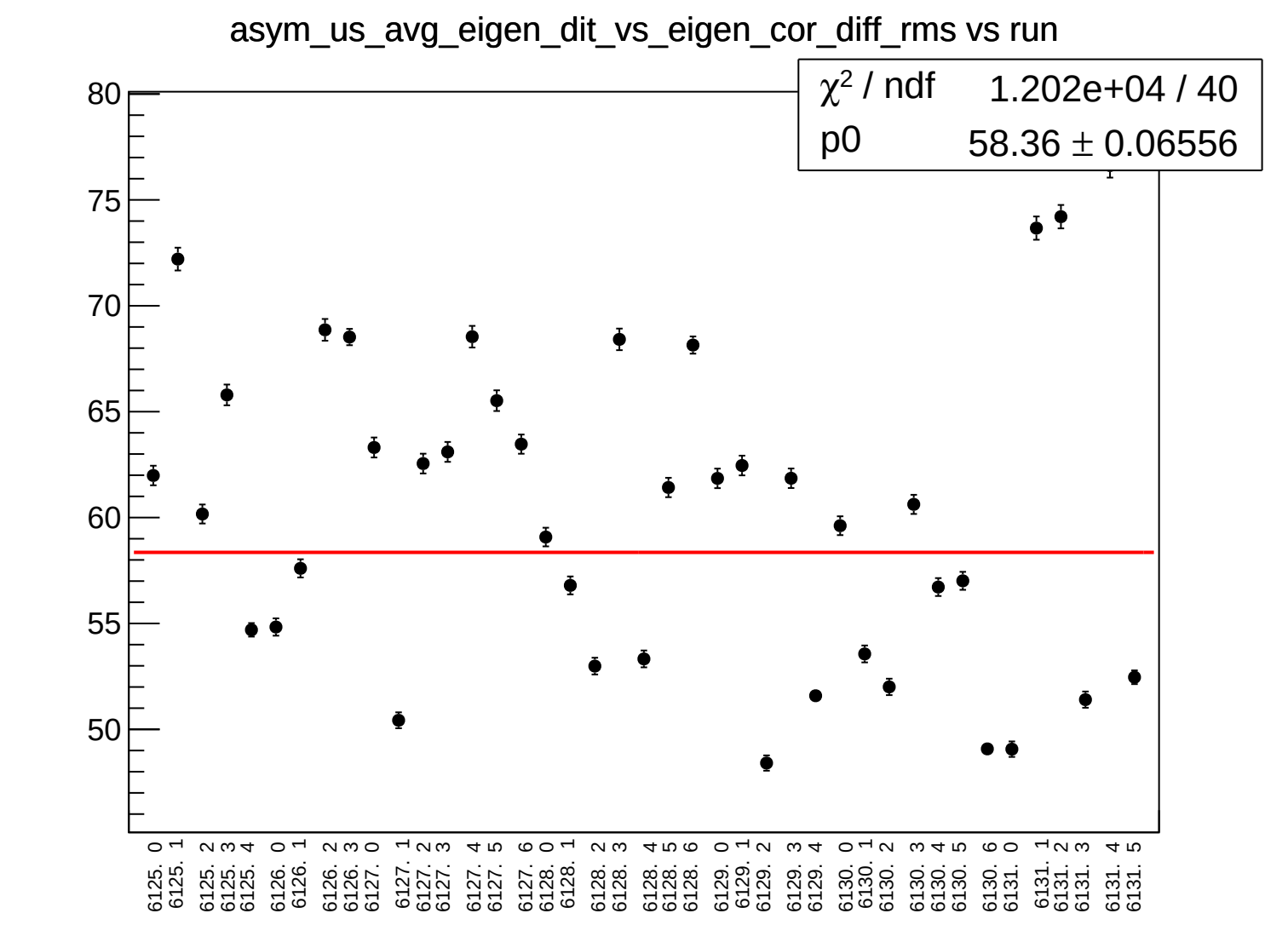

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2646 / 40
p0 0.00256 ± 2.859e−06
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

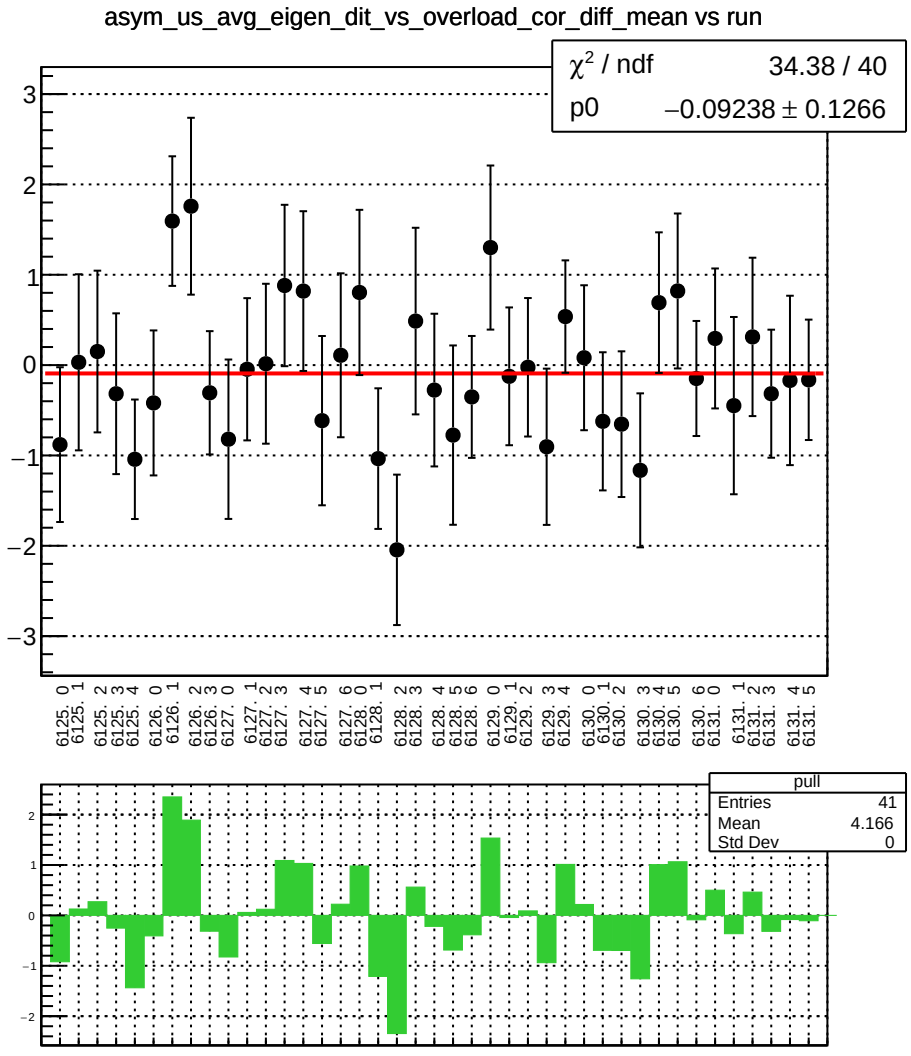

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.25 / 40
p0 0.009675 ± 0.09272
pull
Entries 41
Mean 5.887
Std Dev 0
pull1D
Entries 41
Mean 0.04148
Std Dev 1.061

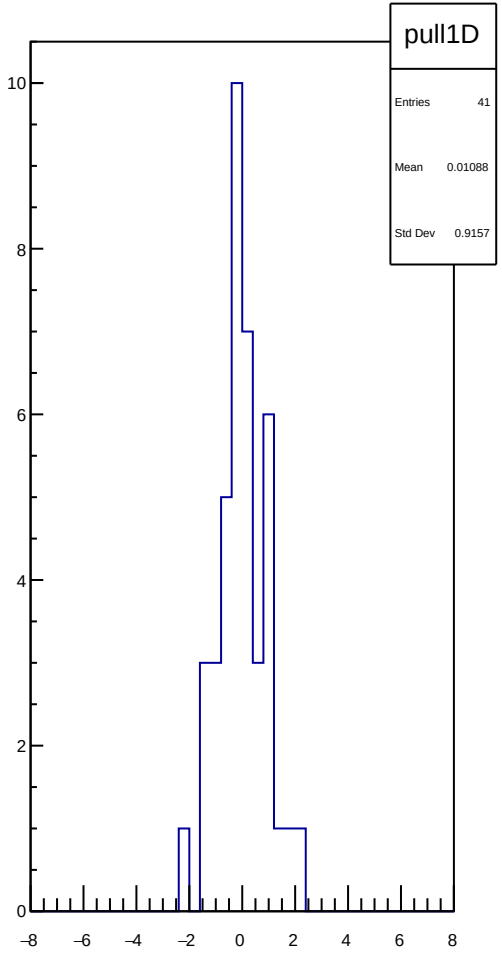

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.202e+04 / 40
p0 58.36 ± 0.06556
80
75
70
65
60
55
50
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

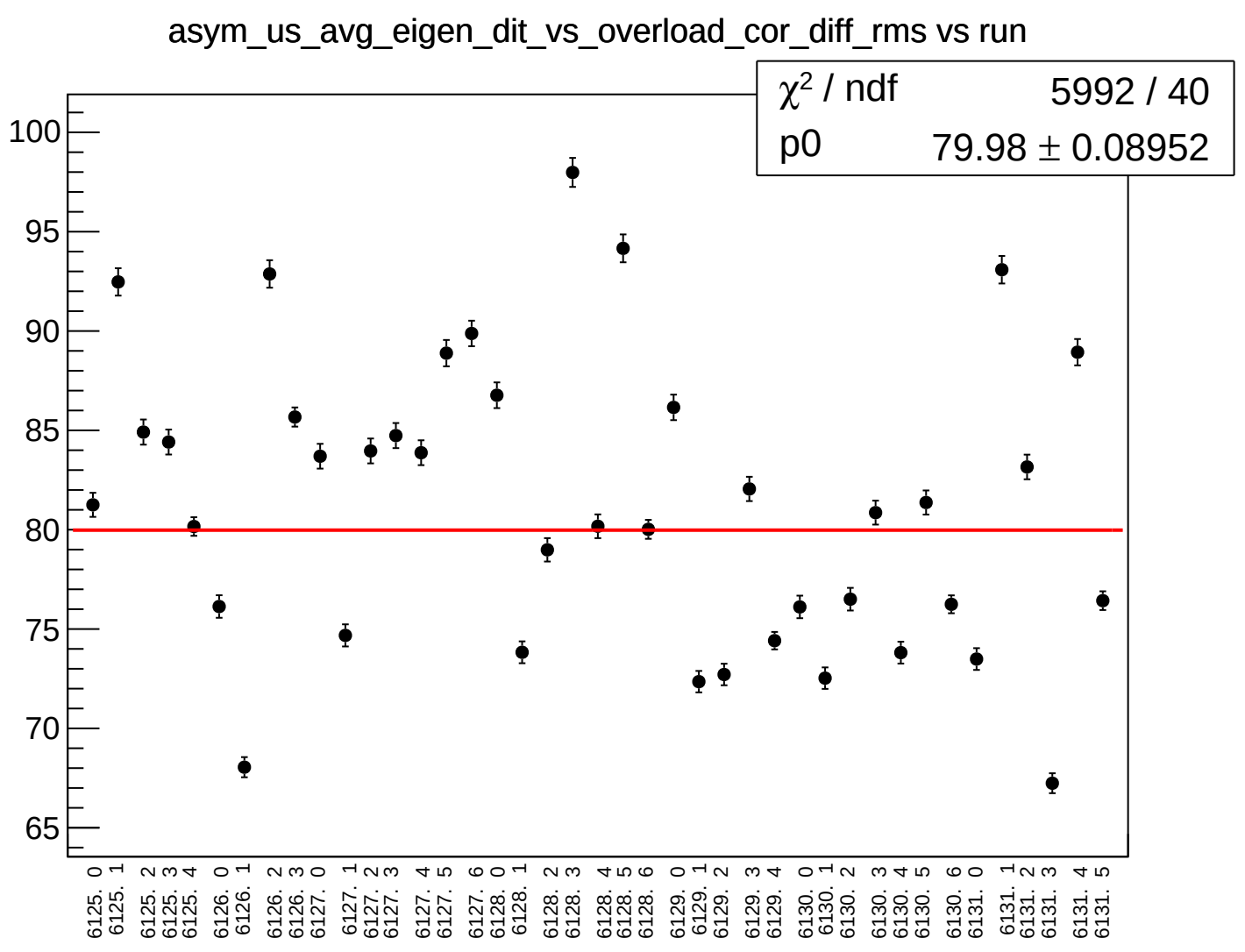

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.25 / 40
p0 0.009675 ± 0.09272
pull
Entries 41
Mean 5.887
Std Dev 0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

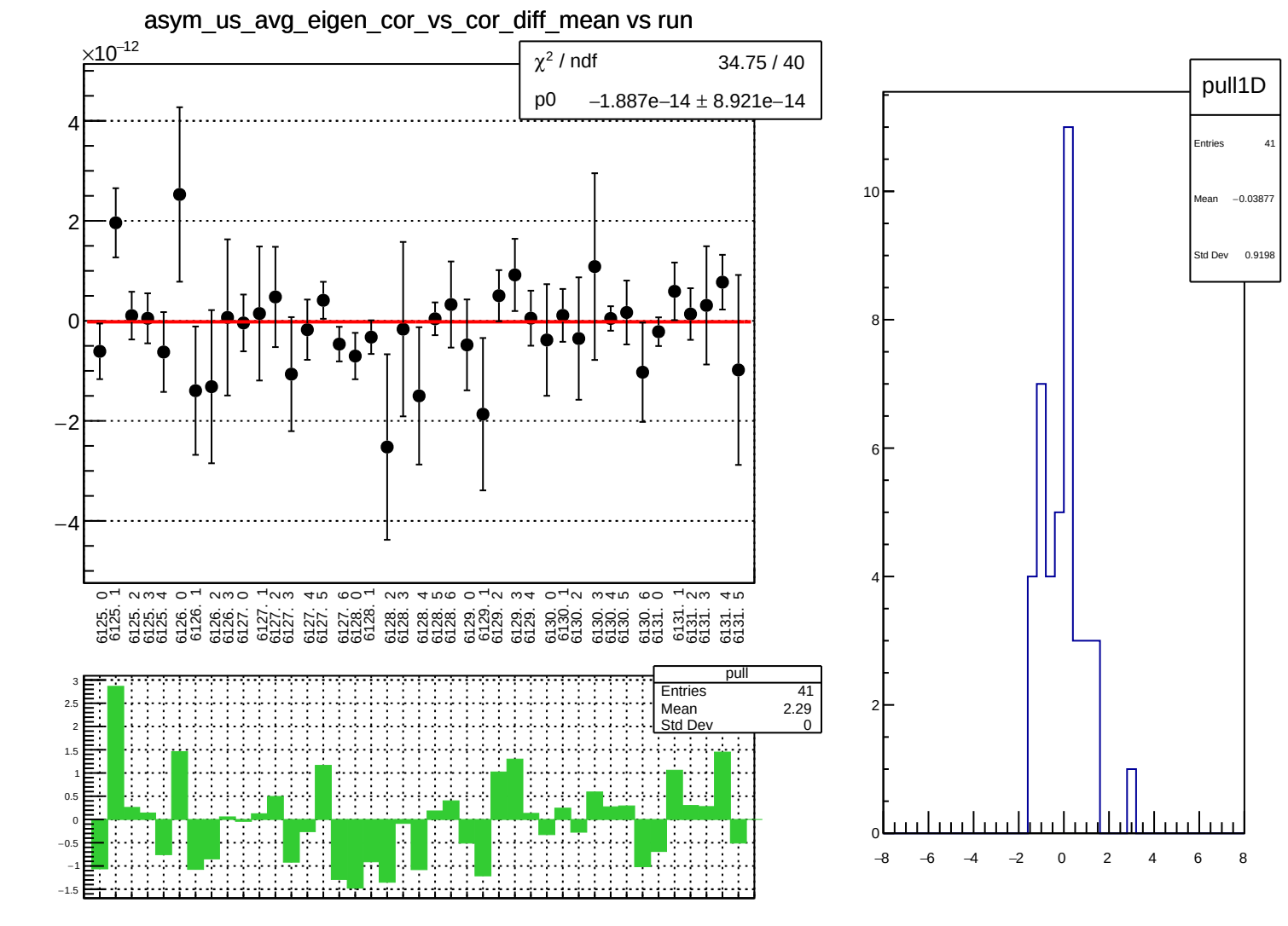

pull1D
Entries 41
Mean 0.04148
Std Dev 1.061

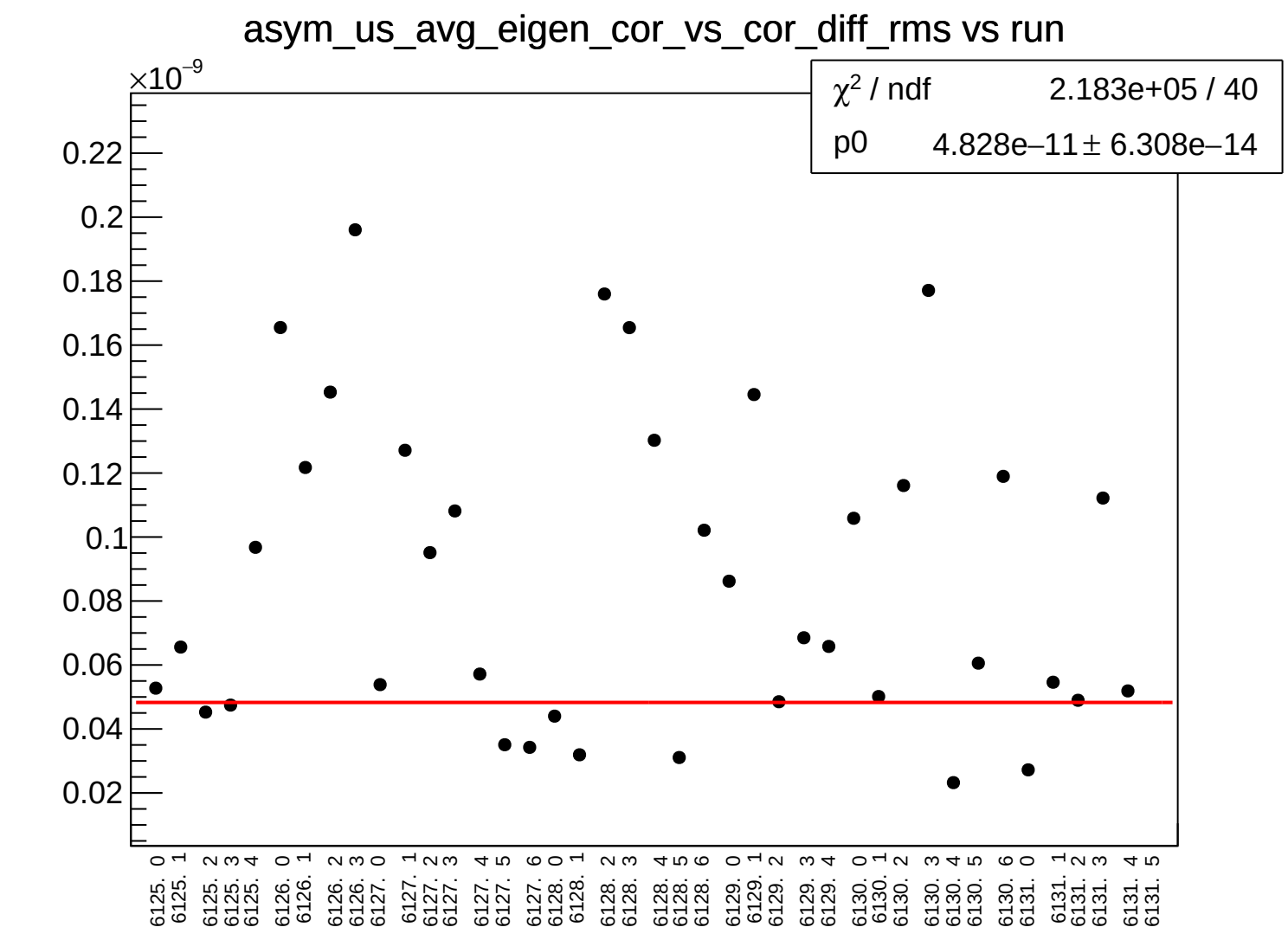

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.202e+04 / 40
p0 58.36 ± 0.06556
80
75
70
65
60
55
50
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

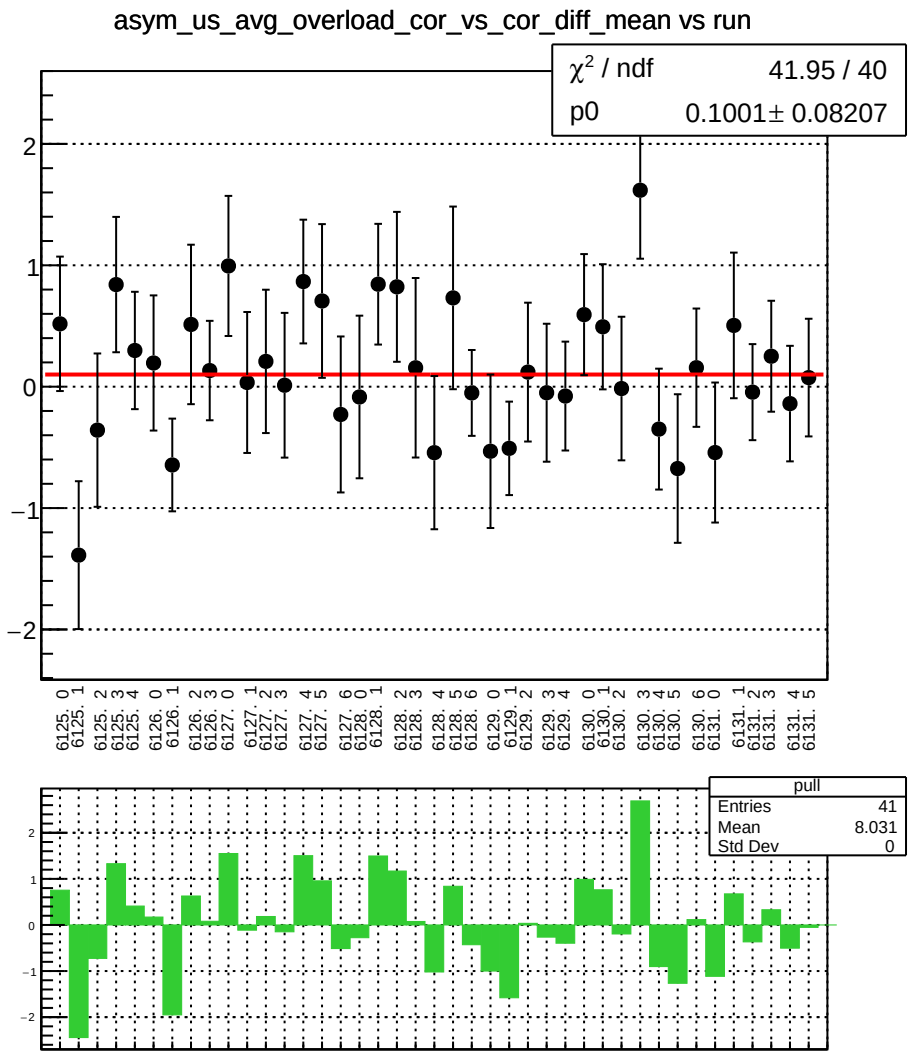

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 34.38 / 40
p0 −0.09238 ± 0.1266
pull
Entries 41
Mean 4.166
Std Dev 0

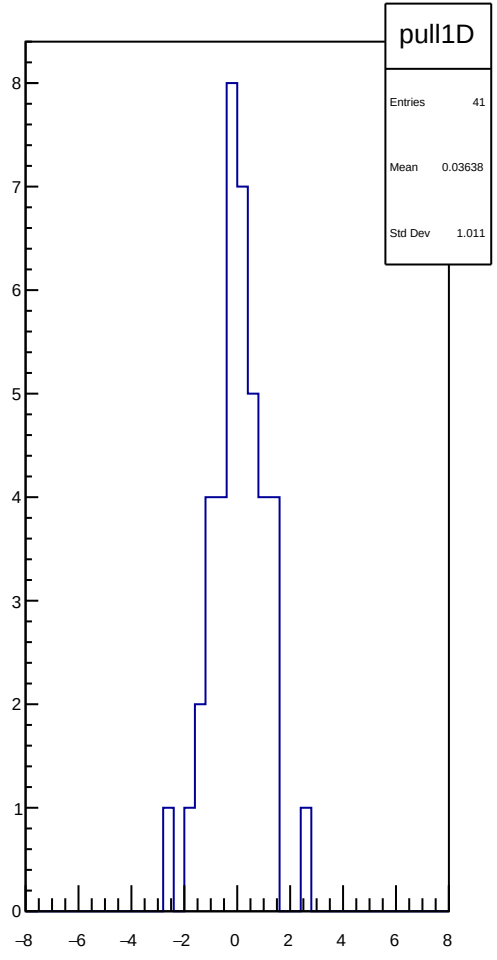

pull1D
Entries 41
Mean 0.01088
Std Dev 0.9157

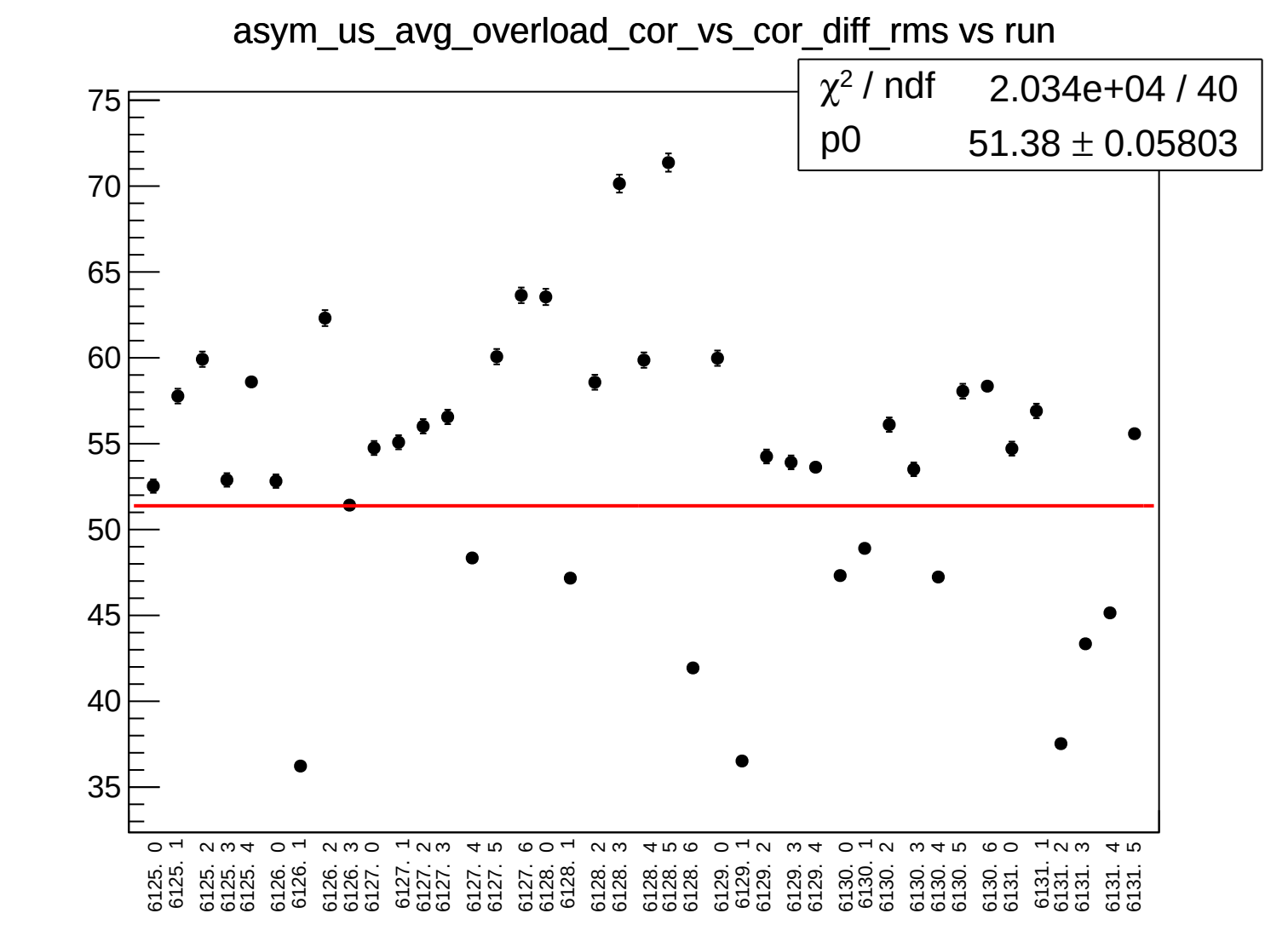

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5992 / 40
p0 79.98 ± 0.08952
100
95
90
85
80
75
70
65
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

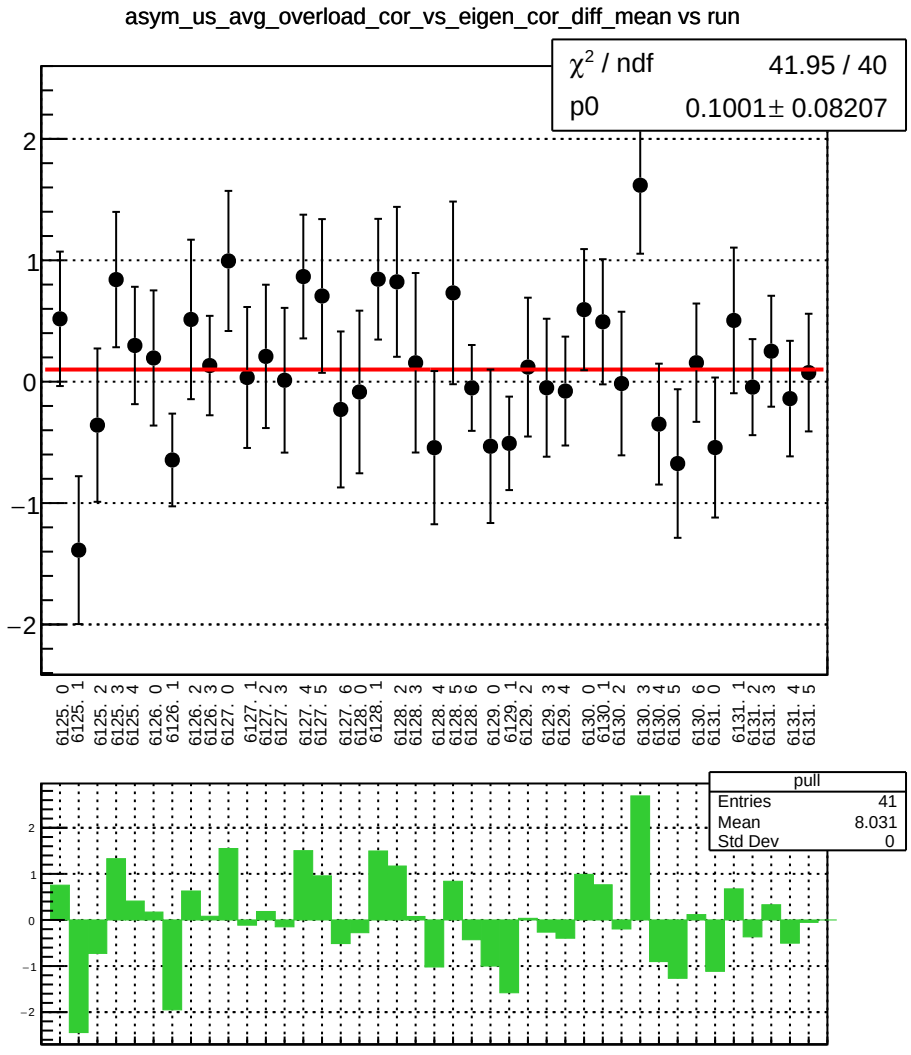

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 34.75 / 40
p0 −1.887e−14 ± 8.921e−14
pull
Entries 41
Mean 2.29
Std Dev 0
pull1D
Entries 41
Mean −0.03877
Std Dev 0.9198

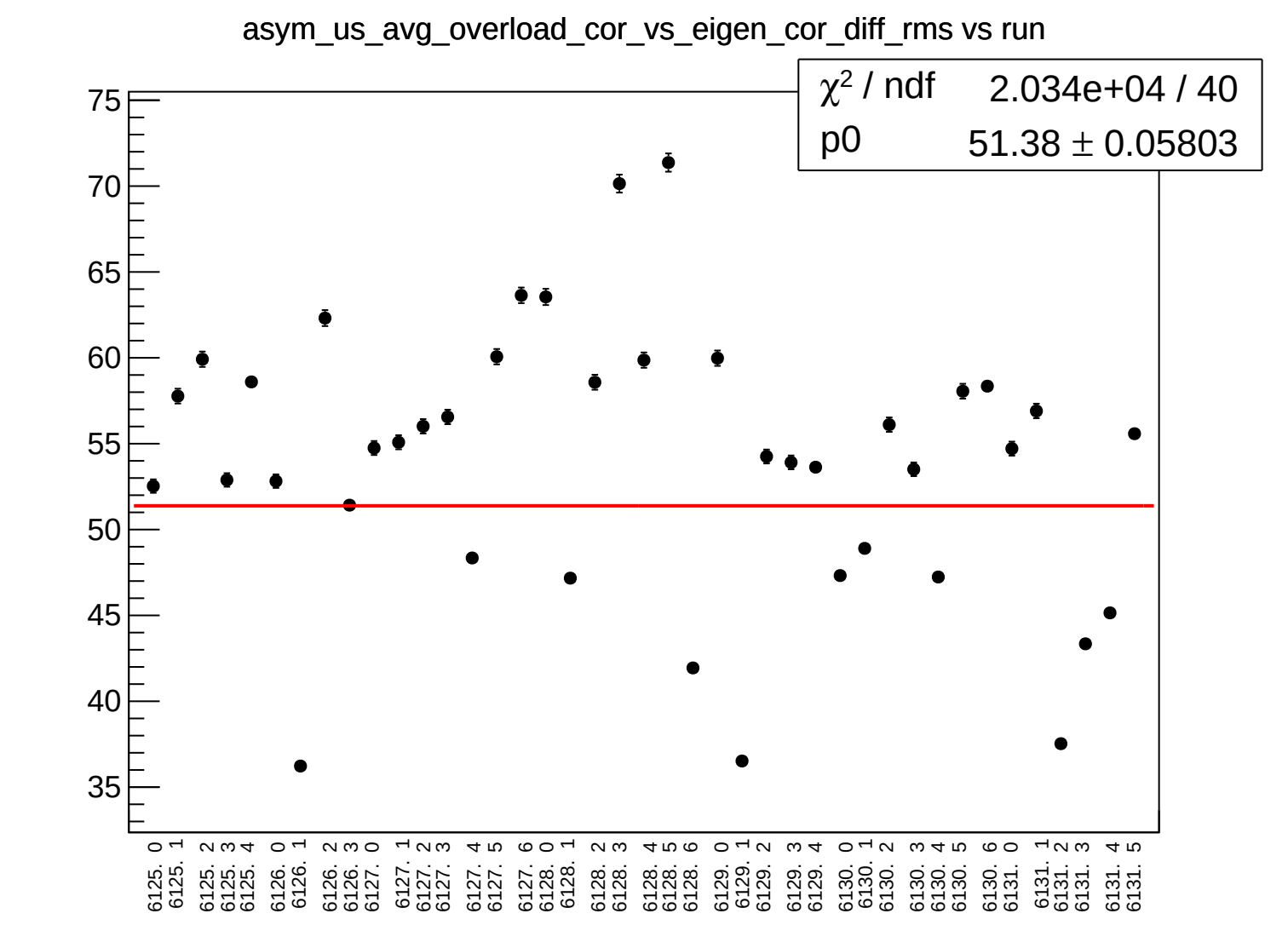

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.183e+05 / 40
p0 4.828e−11 ± 6.308e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

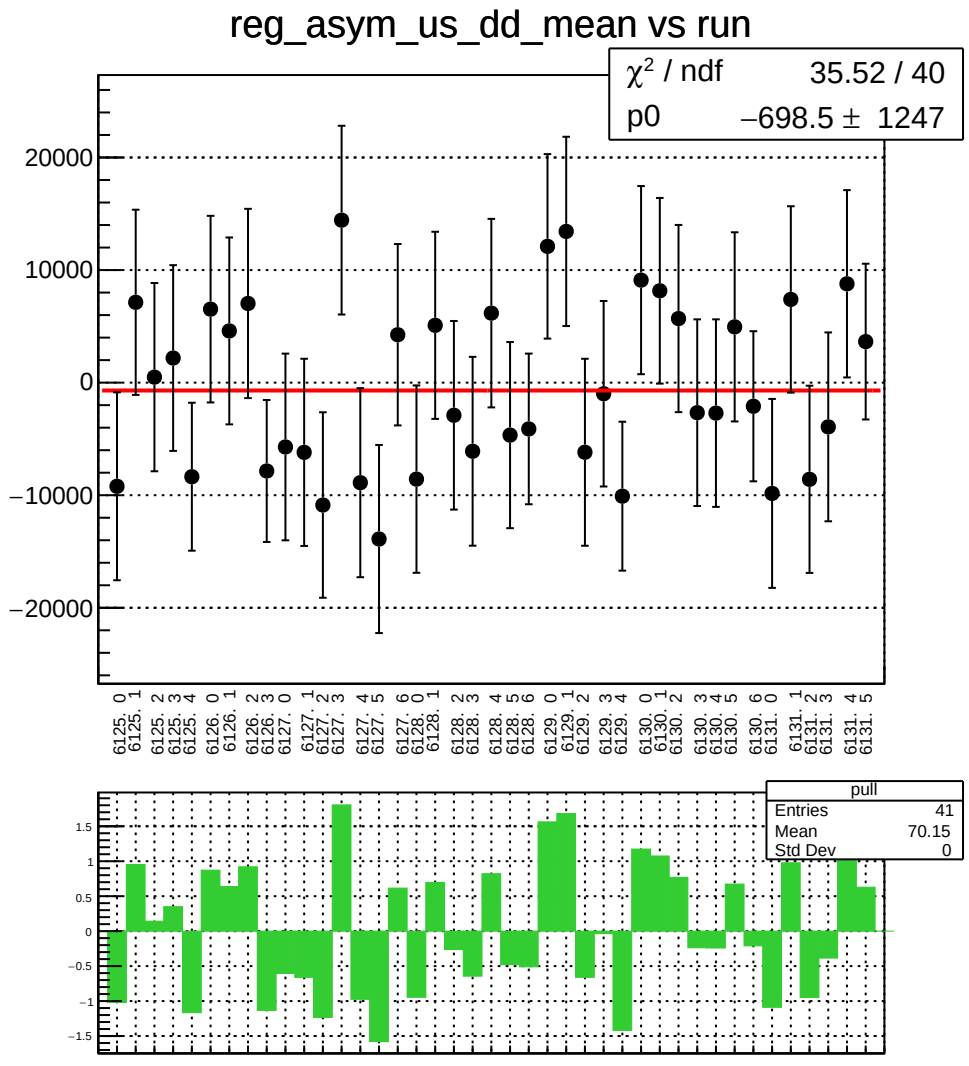

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 41.95 / 40
p0 0.1001± 0.08207
pull
Entries 41
Mean 8.031
Std Dev 0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

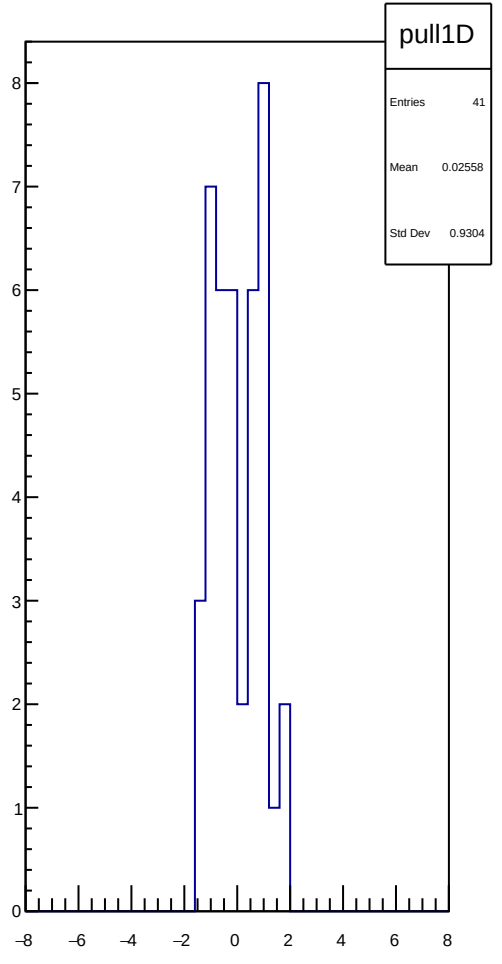

pull1D
Entries 41
Mean 0.03638
Std Dev 1.011

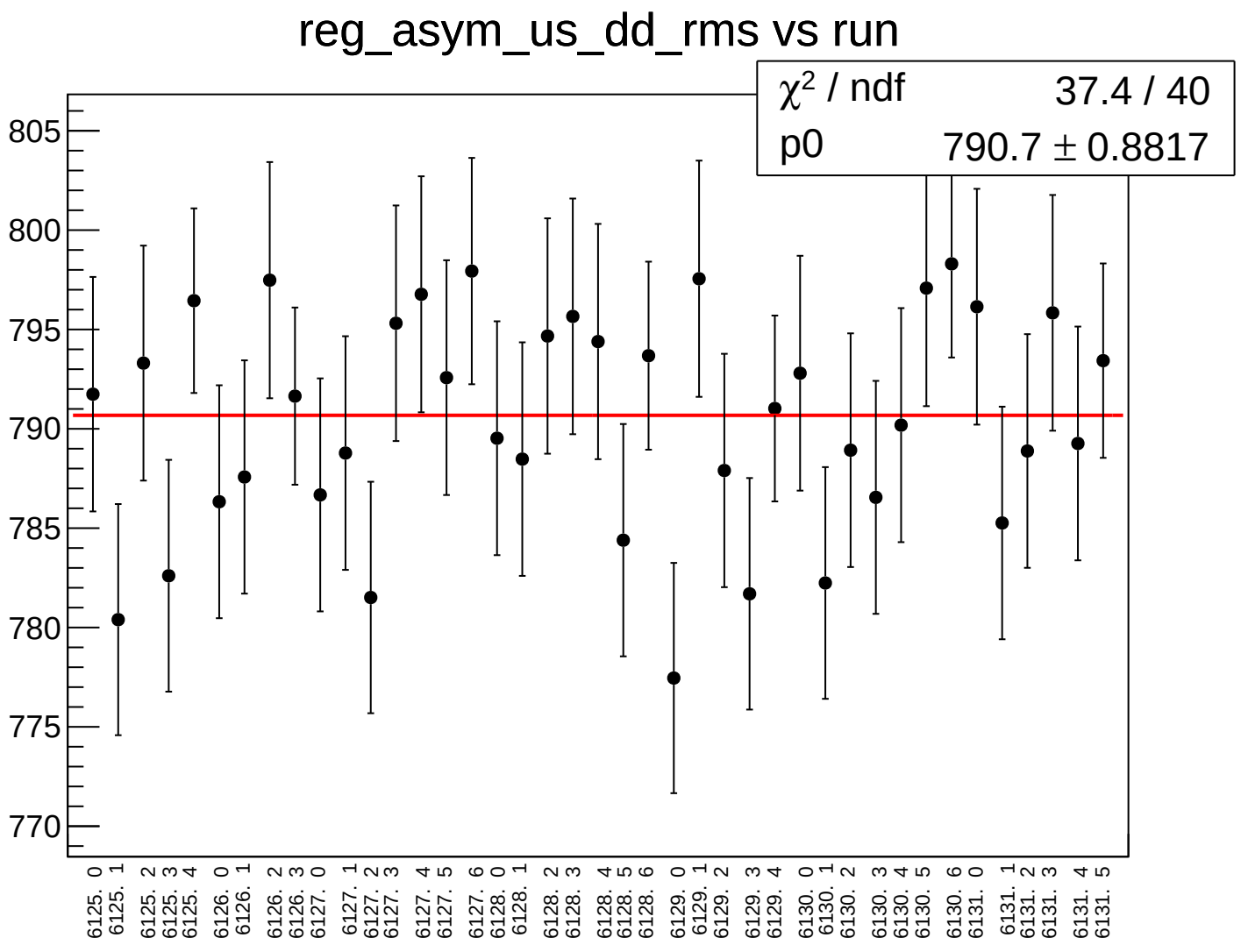

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 2.034e+04 / 40
p0 51.38 ± 0.05803
75
70
65
60
55
50
45
40
35
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

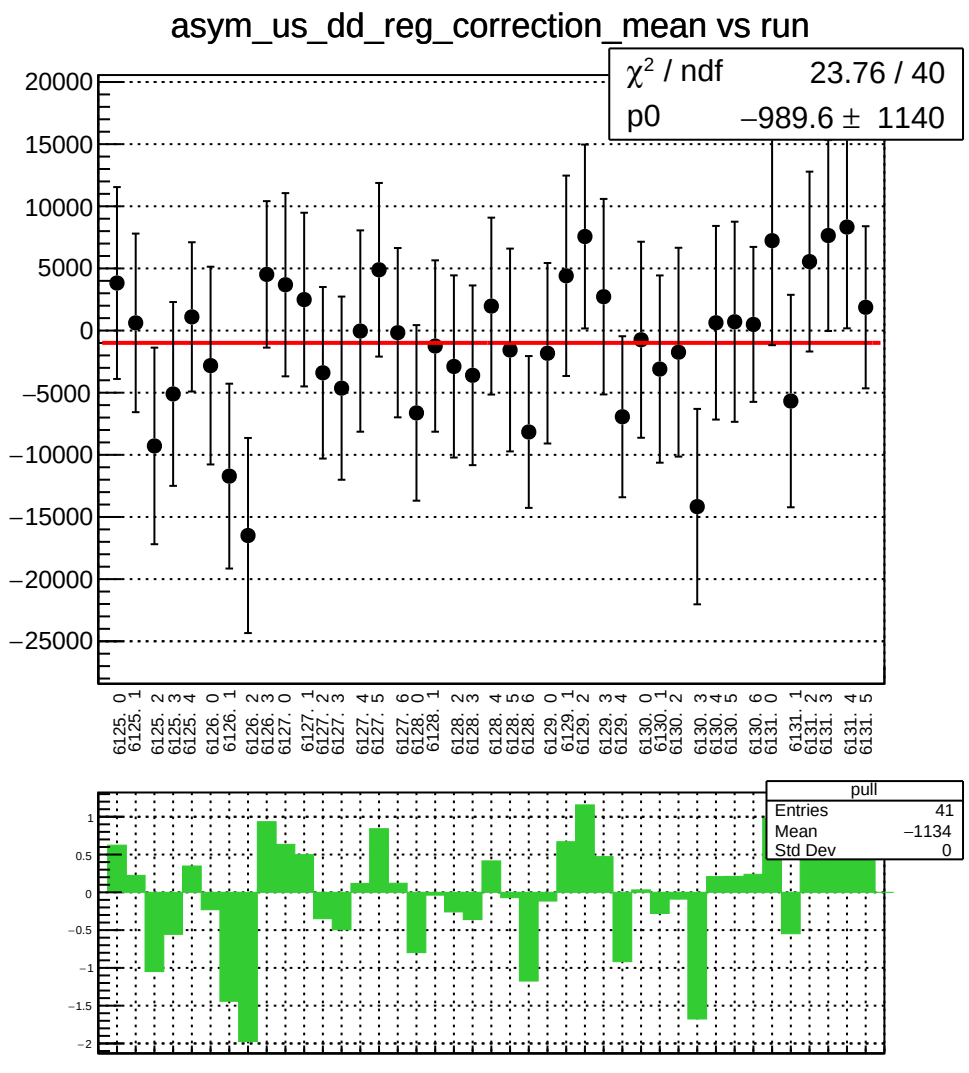

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.95 / 40
p0 0.1001± 0.08207
pull
Entries 41
Mean 8.031
Std Dev 0
pull1D
Entries 41
Mean 0.03638
Std Dev 1.011

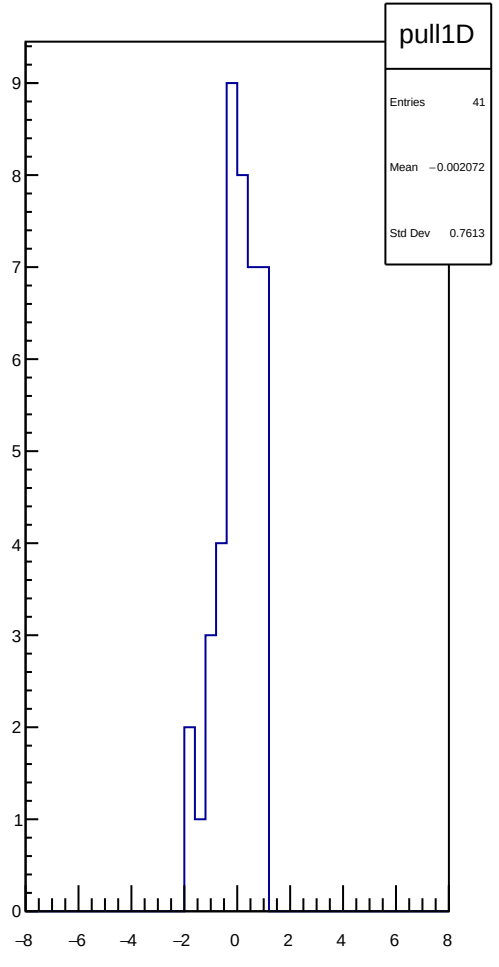

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.034e+04 / 40
p0 51.38 ± 0.05803
75
70
65
60
55
50
45
40
35
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

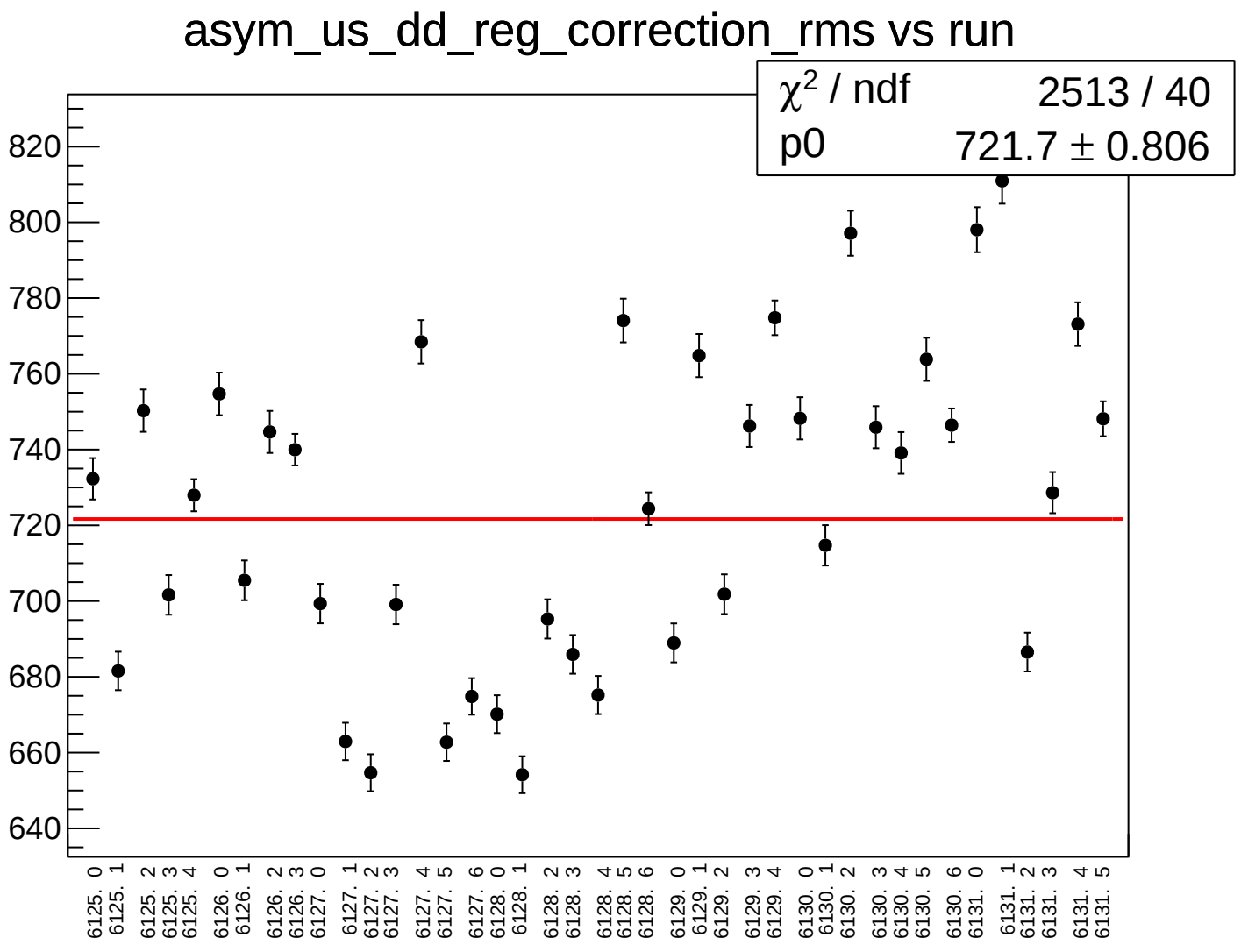

reg_asym_us_dd_mean vs run
χ² / ndf 35.52 / 40
p0 −698.5 ± 1247
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 70.15
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

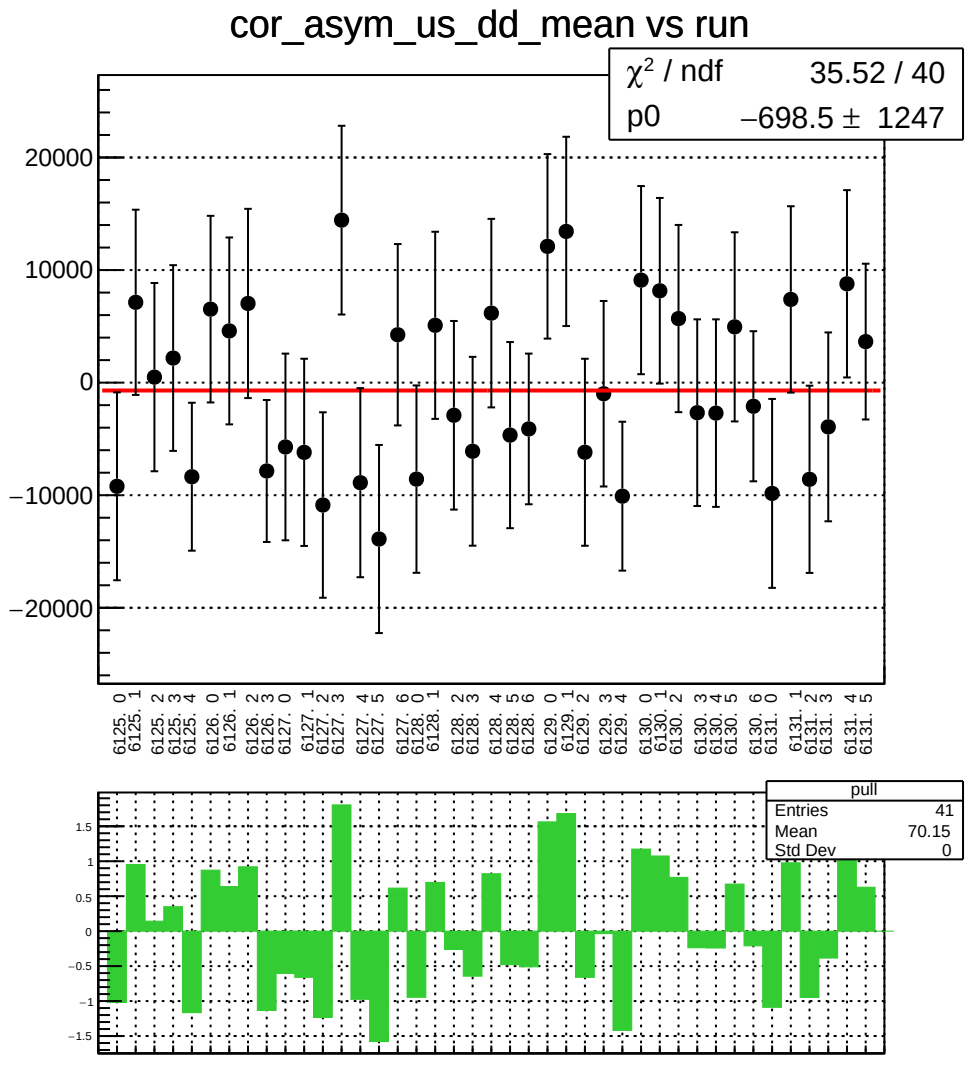

pull1D
Entries 41
Mean 0.02558
Std Dev 0.9304
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

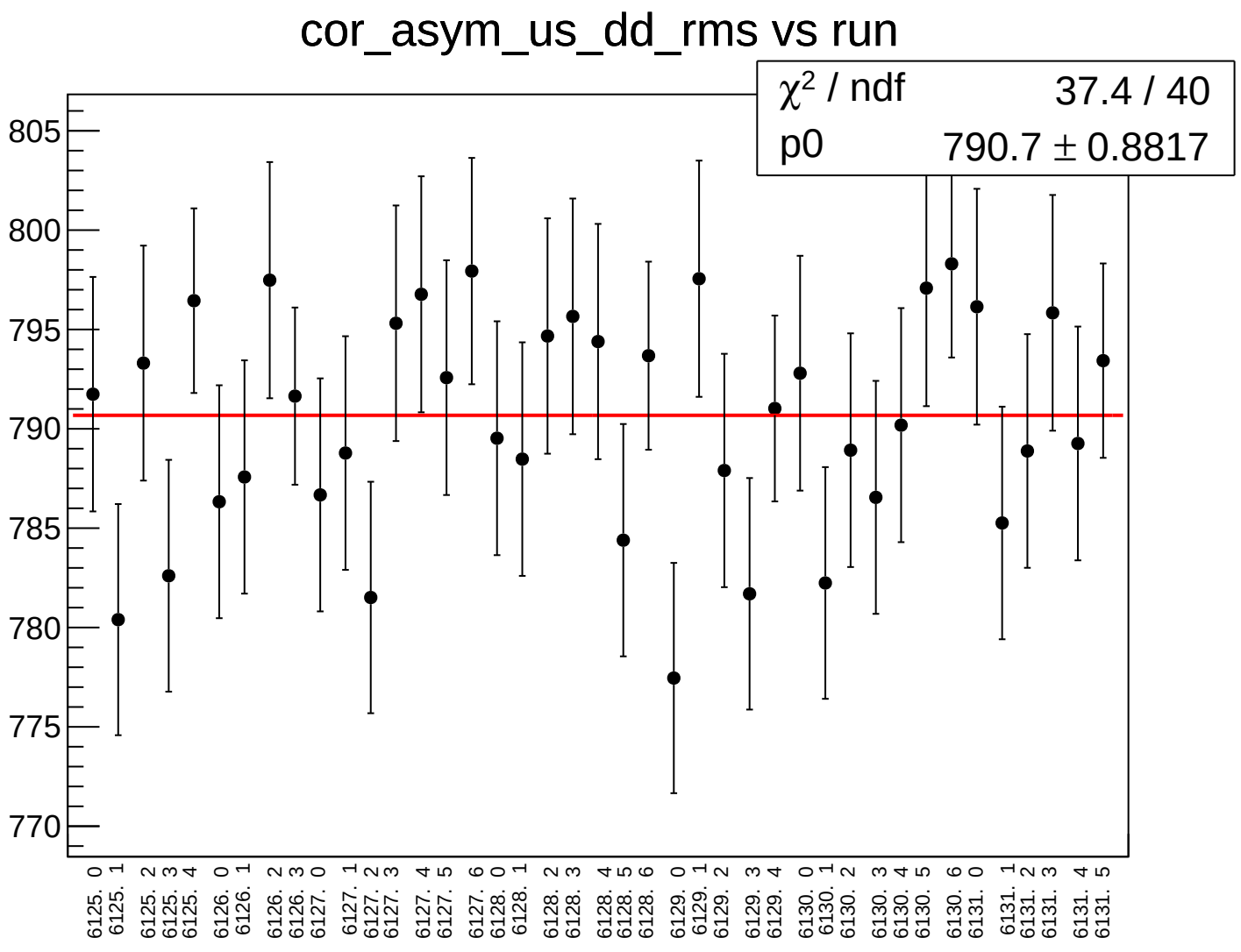

reg_asym_us_dd_rms vs run
χ² / ndf 37.4 / 40
p0 790.7 ± 0.8817
805
800
795
790
785
780
775
770
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

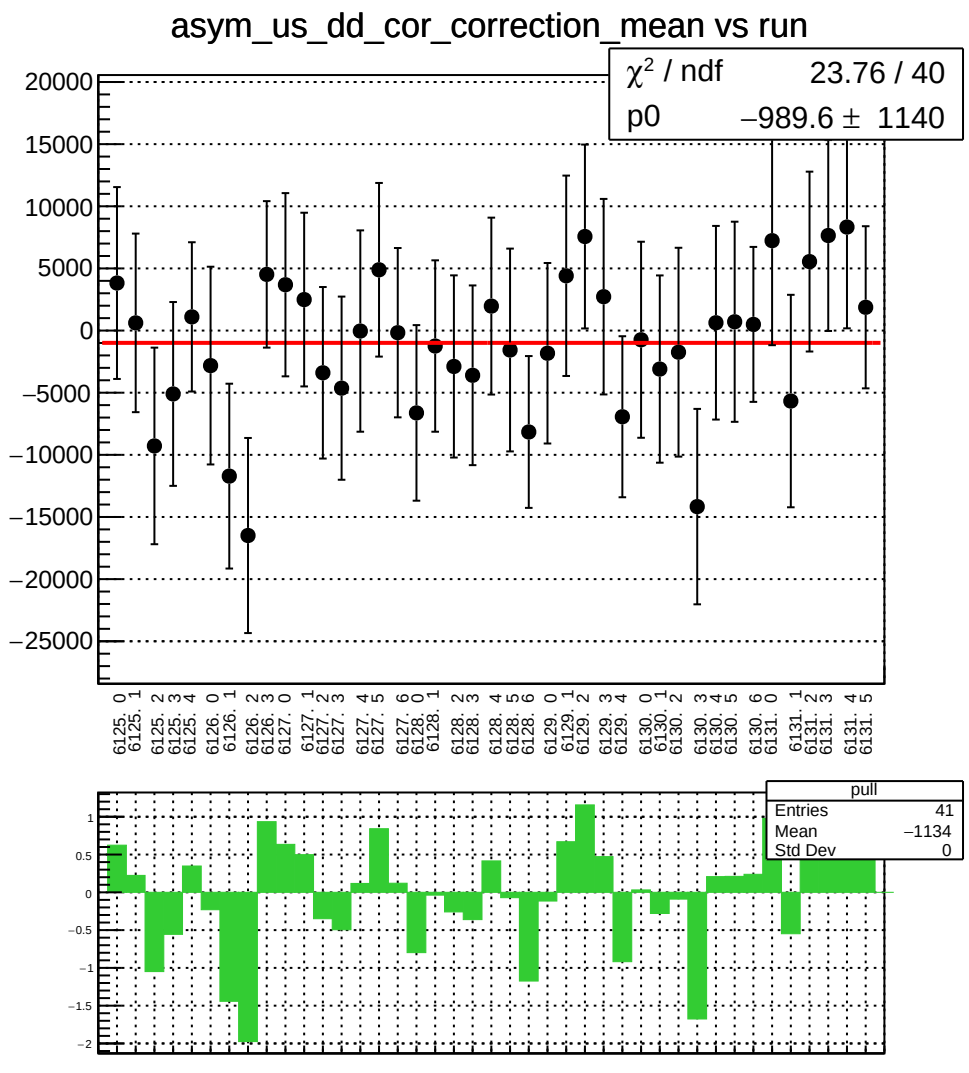

asym_us_dd_reg_correction_mean vs run
χ² / ndf 23.76 / 40
p0 −989.6 ± 1140
pull
Entries 41
Mean −1134
Std Dev 0

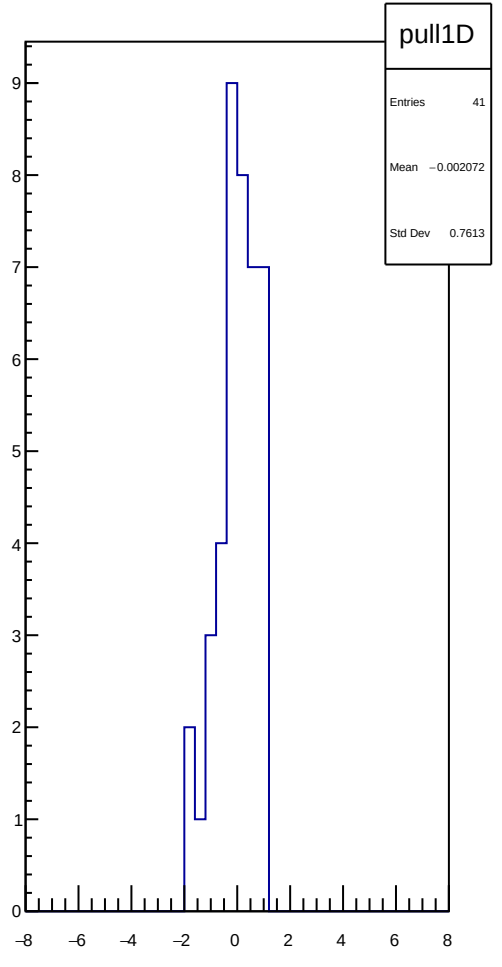

pull1D
Entries 41
Mean −0.002072
Std Dev 0.7613

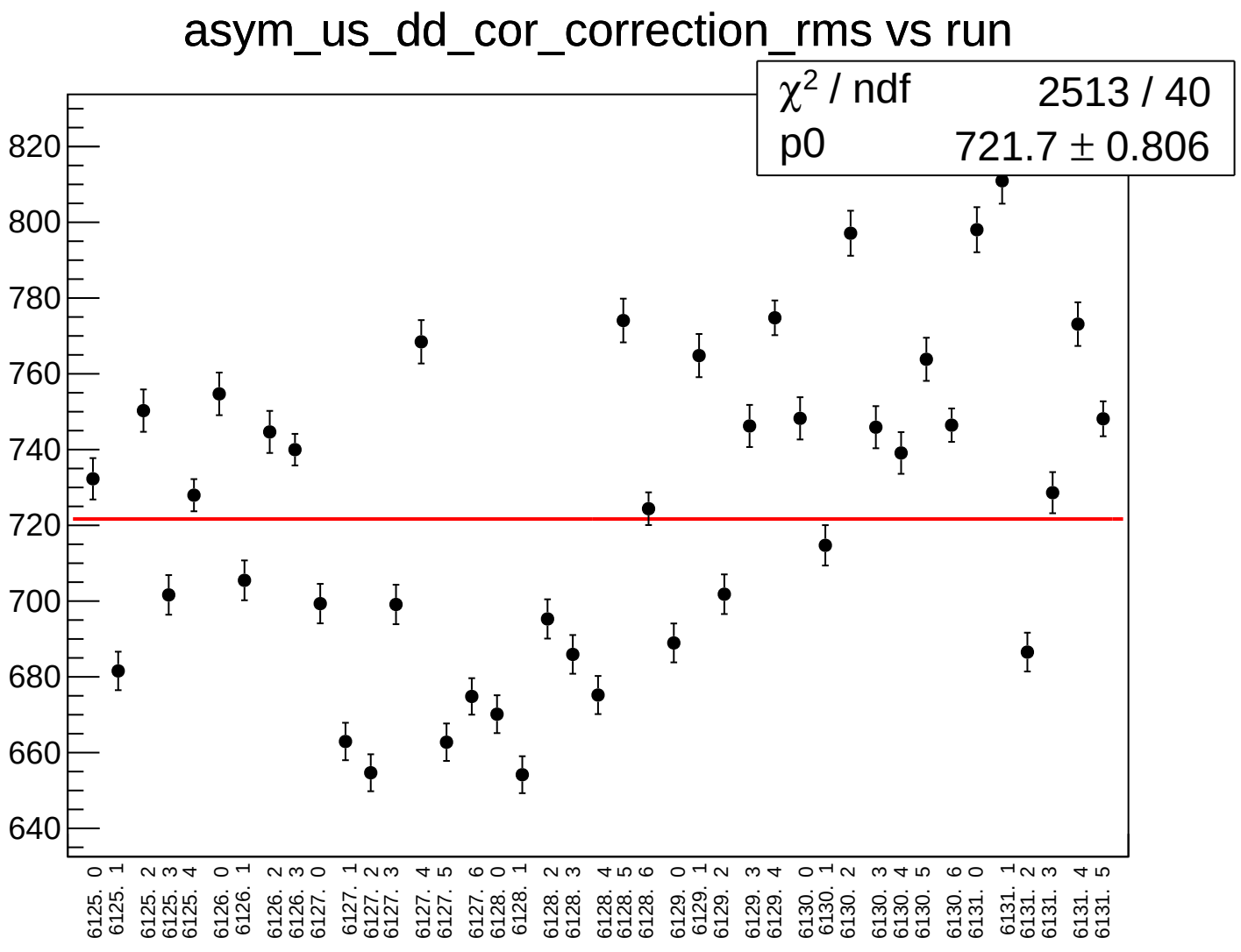

asym_us_dd_reg_correction_rms vs run
χ² / ndf 2513 / 40
p0 721.7 ± 0.806
820
800
780
760
740
720
700
680
660
640
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

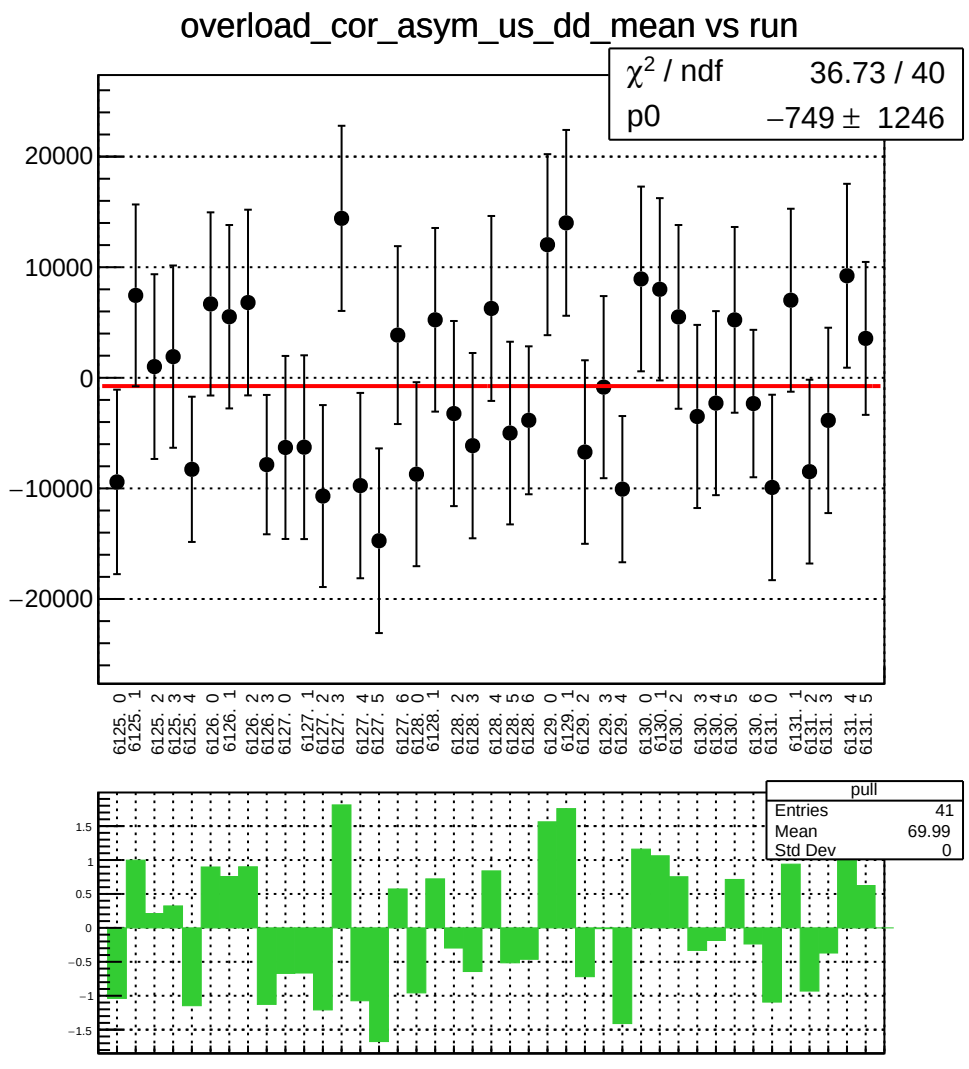

cor_asym_us_dd_mean vs run
χ² / ndf 35.52 / 40
p0 −698.5 ± 1247
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 70.15
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.02558
Std Dev 0.9304
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

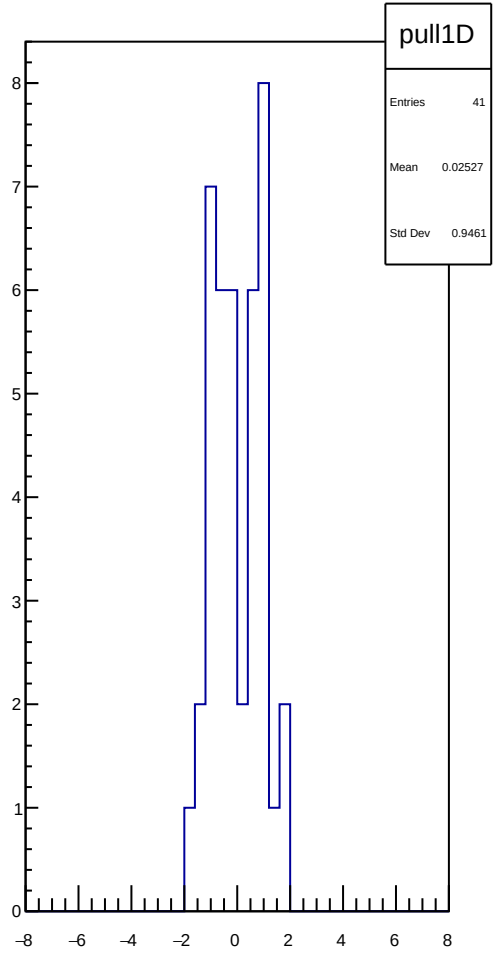

cor_asym_us_dd_rms vs run
χ² / ndf 37.4 / 40
p0 790.7 ± 0.8817
805
800
795
790
785
780
775
770
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

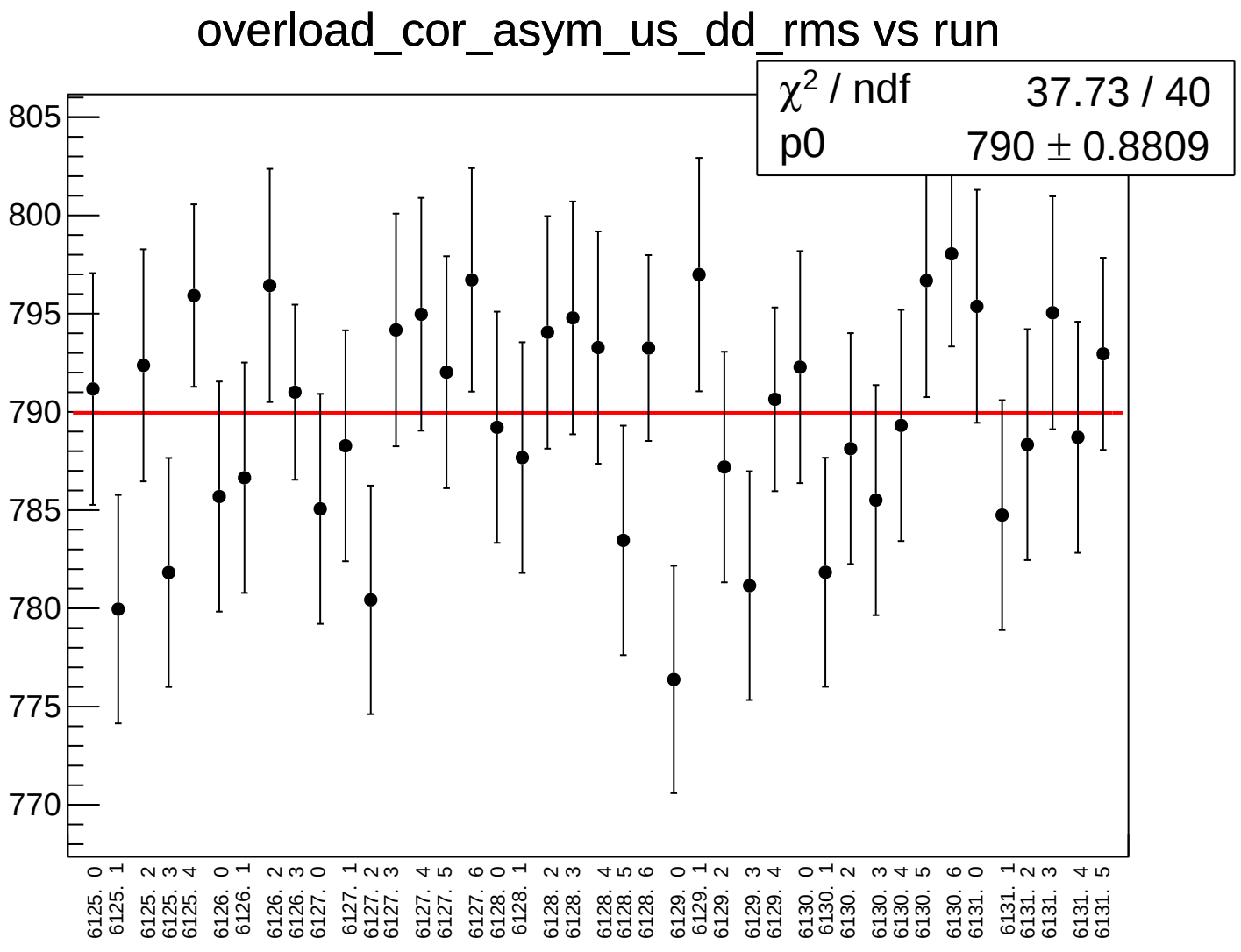

asym_us_dd_cor_correction_mean vs run
χ² / ndf 23.76 / 40
p0 −989.6 ± 1140
pull
Entries 41
Mean −1134
Std Dev 0

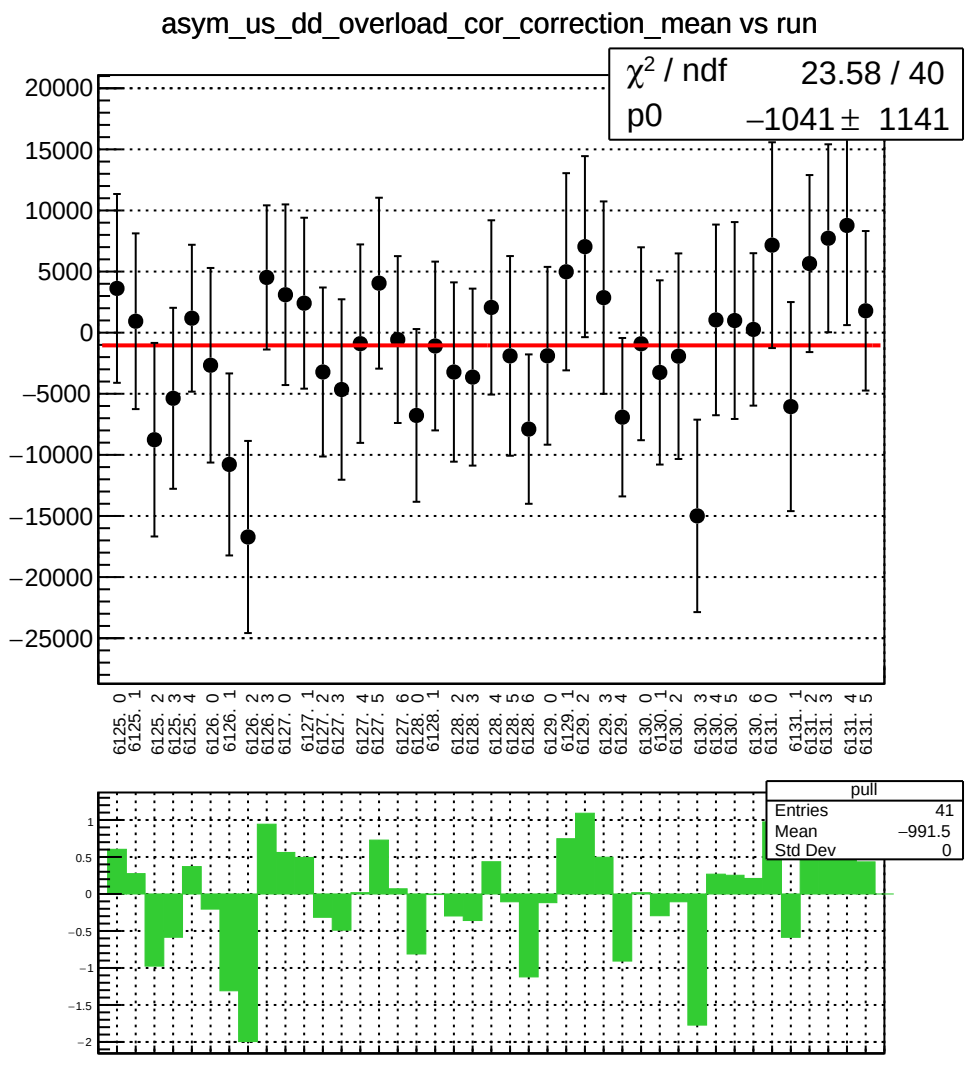

pull1D
Entries 41
Mean −0.002072
Std Dev 0.7613

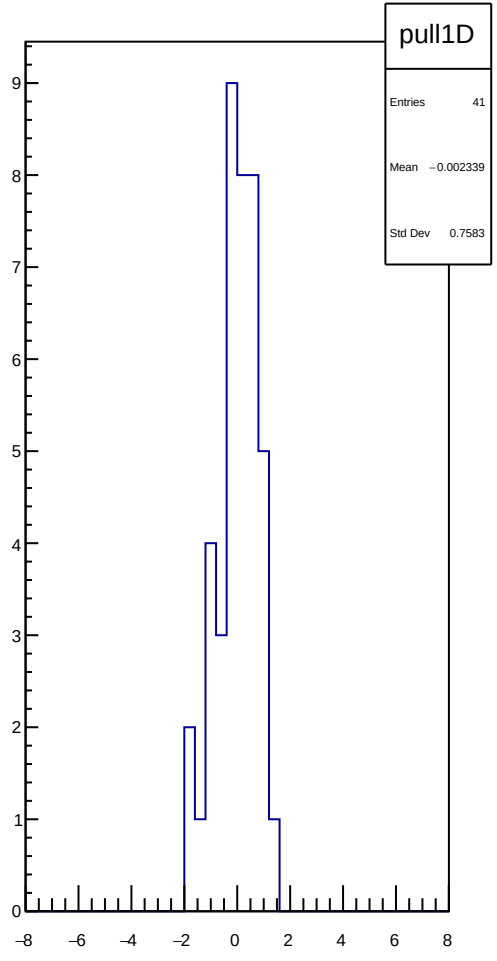

asym_us_dd_cor_correction_rms vs run
χ² / ndf 2513 / 40
p0 721.7 ± 0.806
820
800
780
760
740
720
700
680
660
640
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

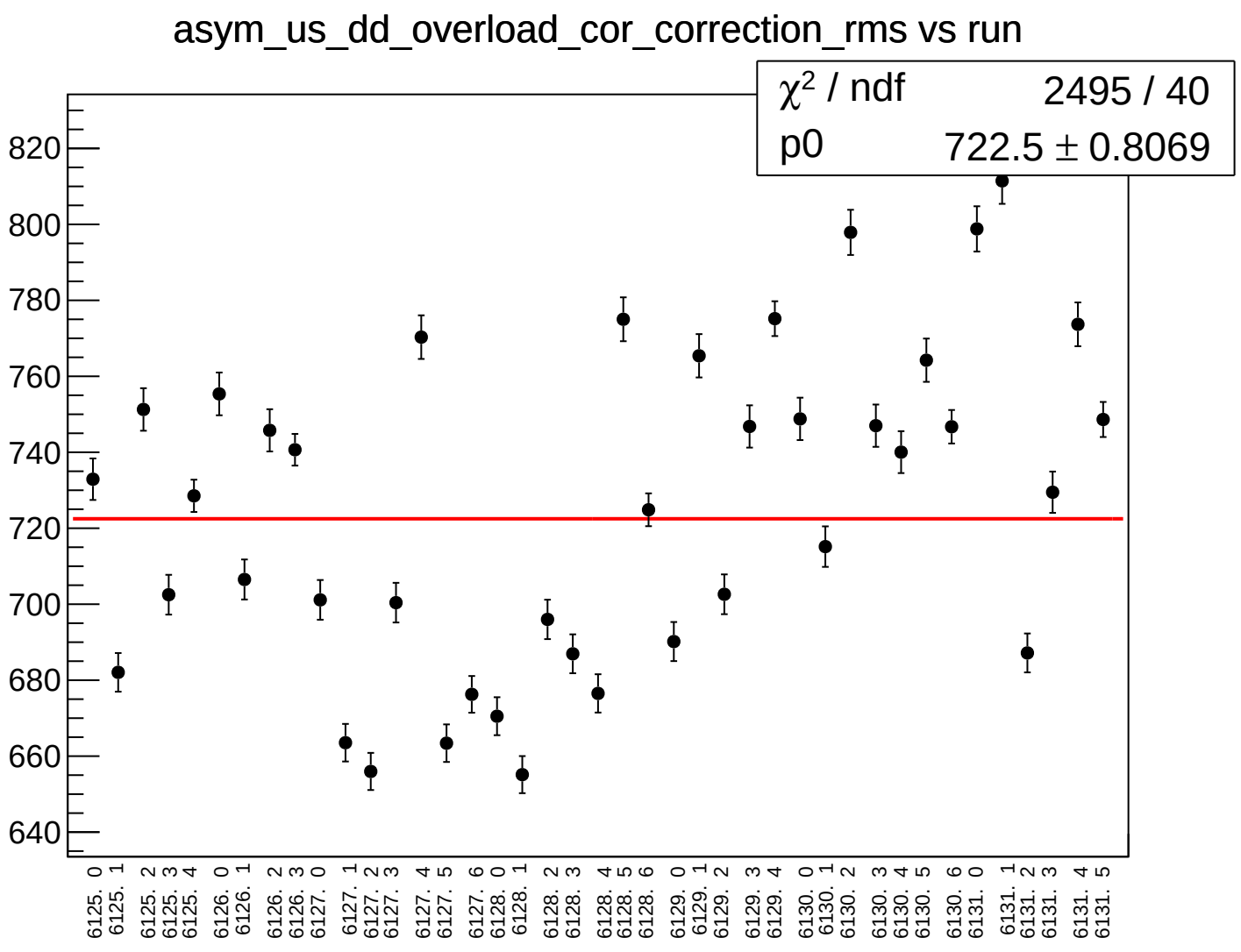

overload_cor_asym_us_dd_mean vs run
χ² / ndf 36.73 / 40
p0 −749 ± 1246
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 69.99
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

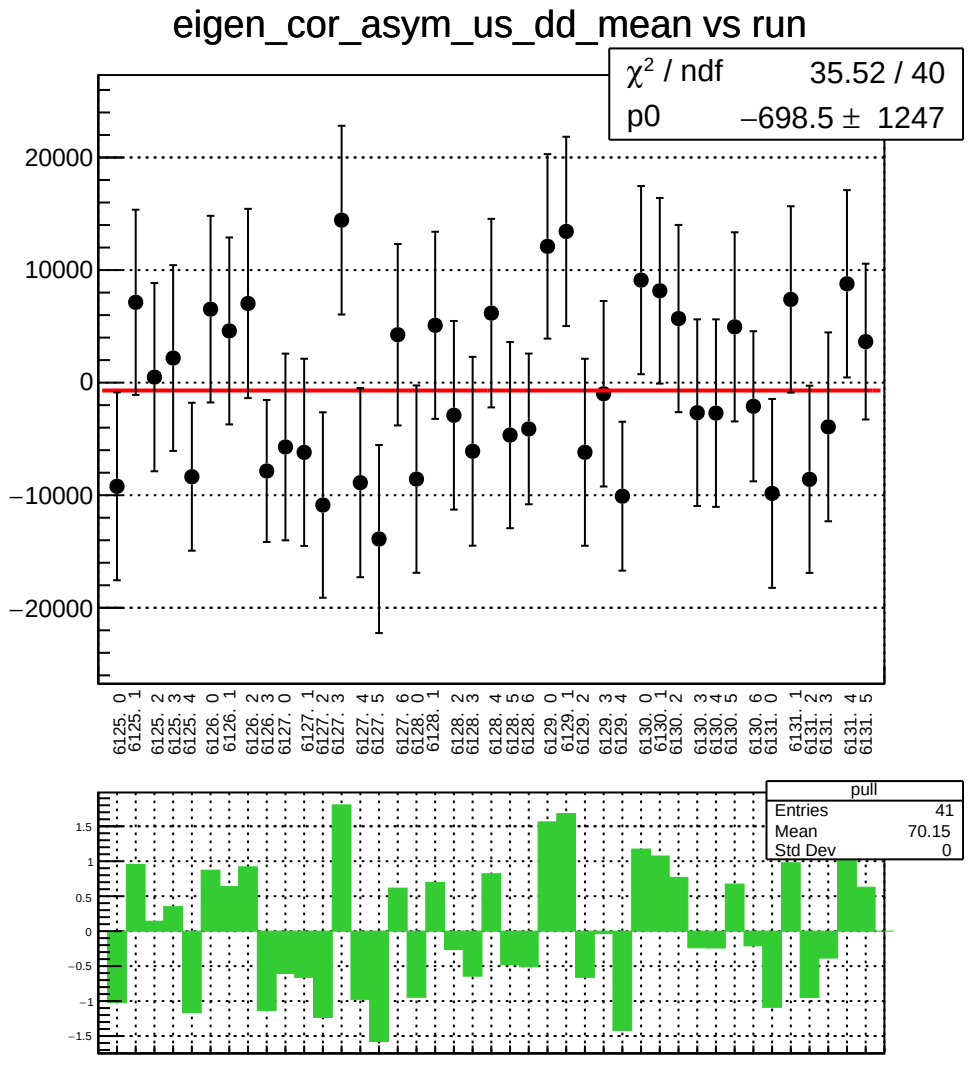

pull1D
Entries 41
Mean 0.02527
Std Dev 0.9461
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

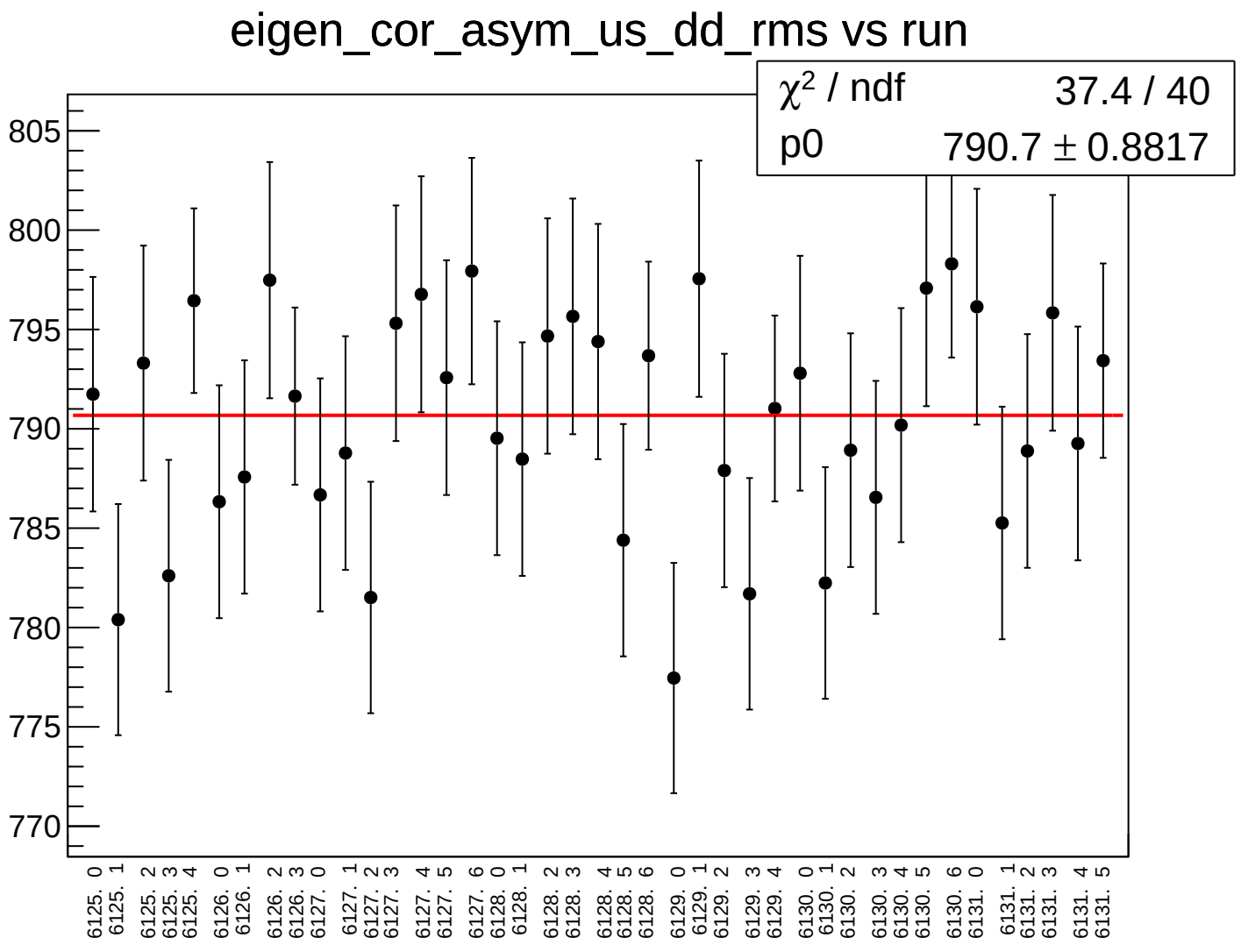

overload_cor_asym_us_dd_rms vs run
χ² / ndf 37.73 / 40
p0 790 ± 0.8809
805
800
795
790
785
780
775
770
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

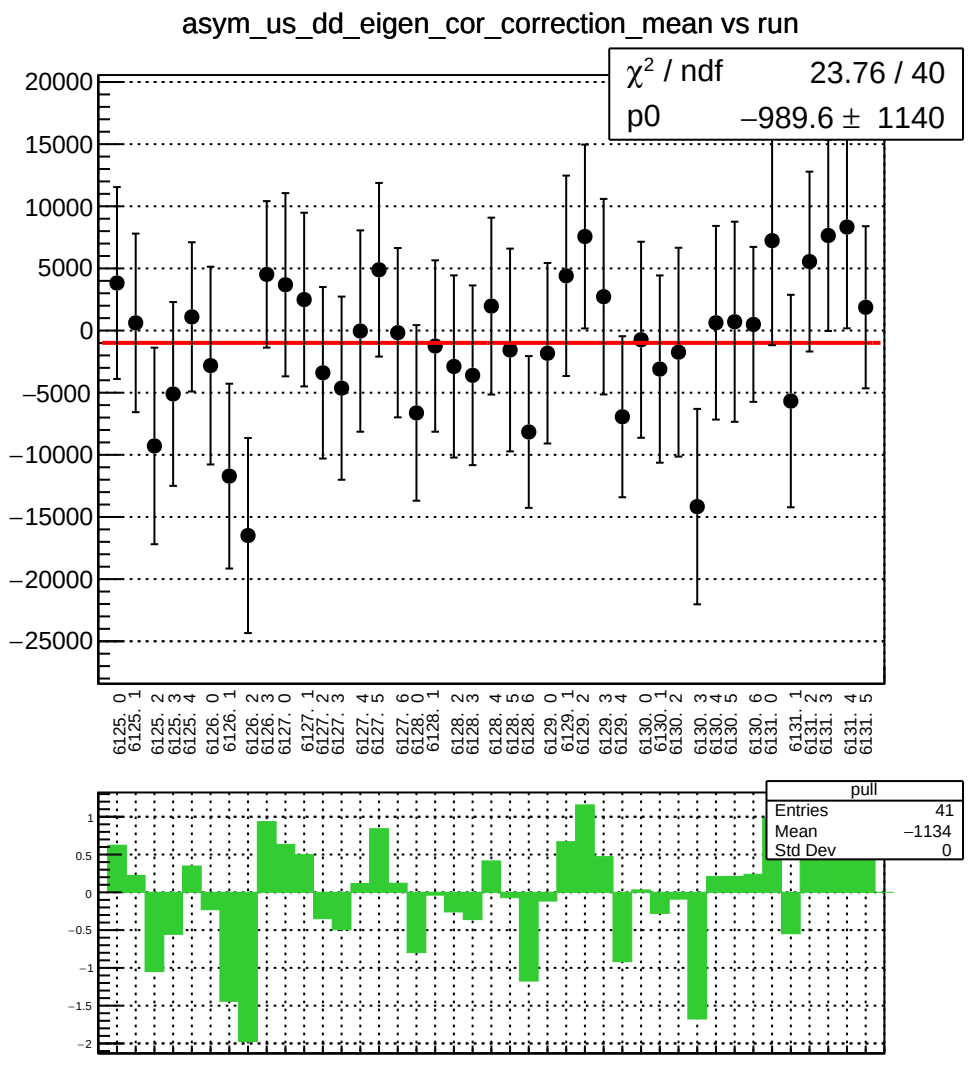

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 23.58 / 40
p0 −1041 ± 1141
pull
Entries 41
Mean −991.5
Std Dev 0

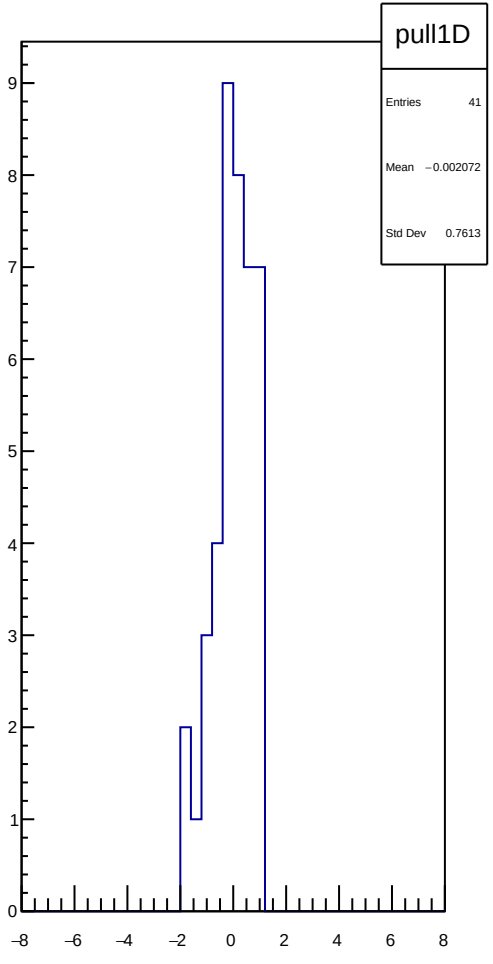

pull1D
Entries 41
Mean −0.002339
Std Dev 0.7583

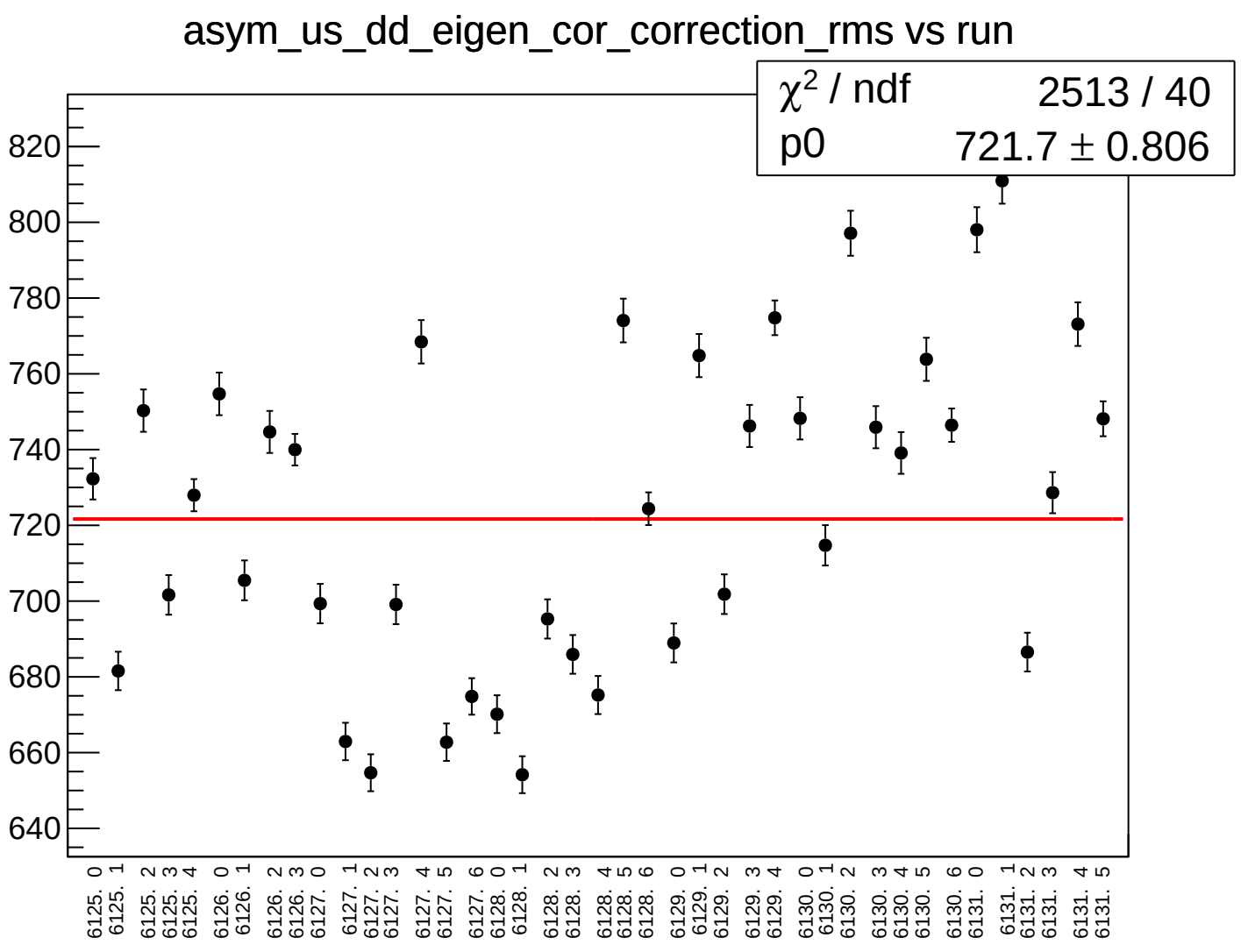

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 2495 / 40
p0 722.5 ± 0.8069
820
800
780
760
740
720
700
680
660
640
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

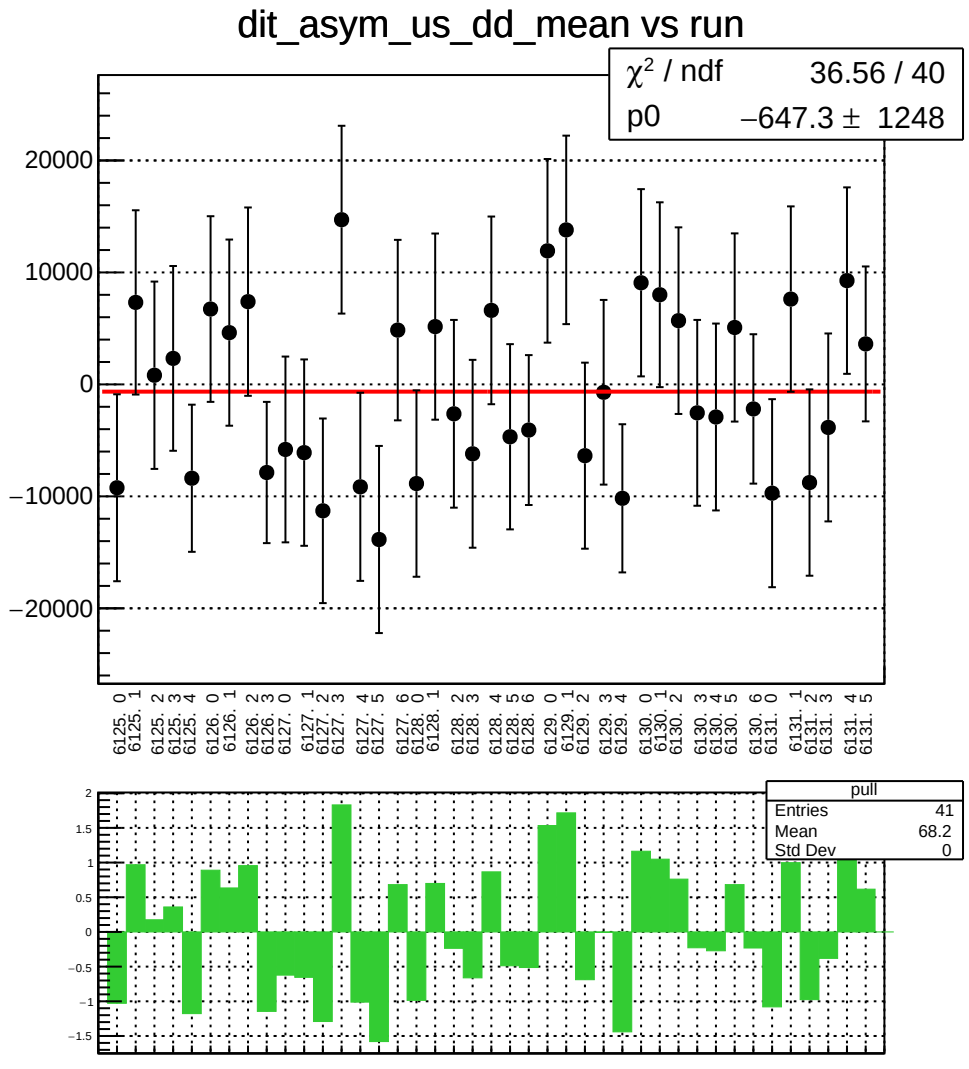

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 35.52 / 40
p0 −698.5 ± 1247
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 70.15
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.02558
Std Dev 0.9304
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

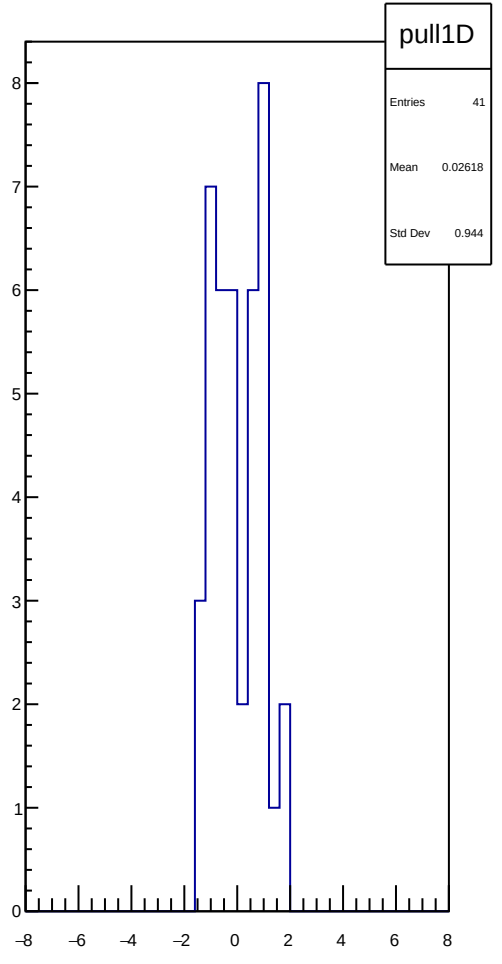

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 37.4 / 40
p0 790.7 ± 0.8817
805
800
795
790
785
780
775
770
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

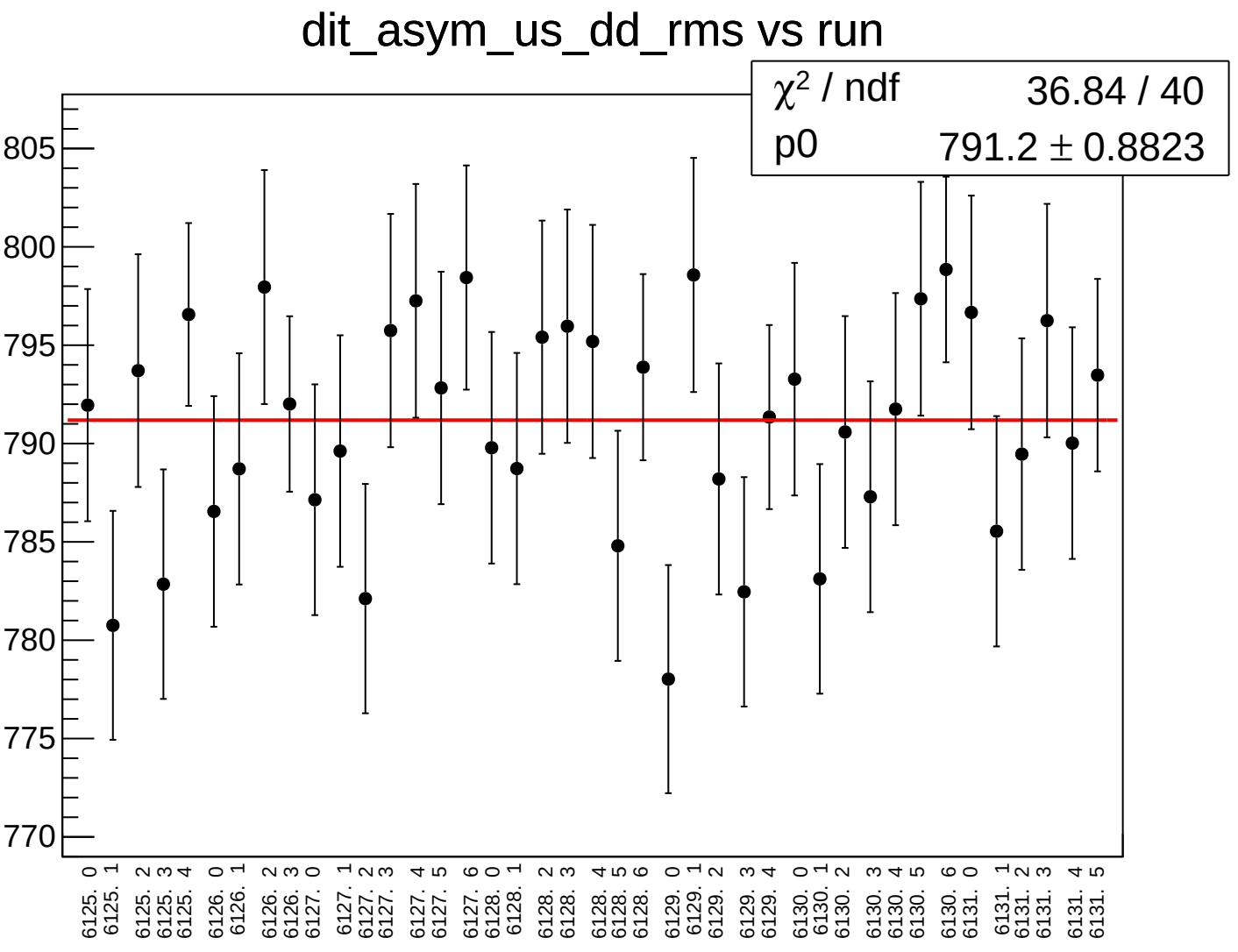

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 23.76 / 40
p0 −989.6 ± 1140
pull
Entries 41
Mean −1134
Std Dev 0

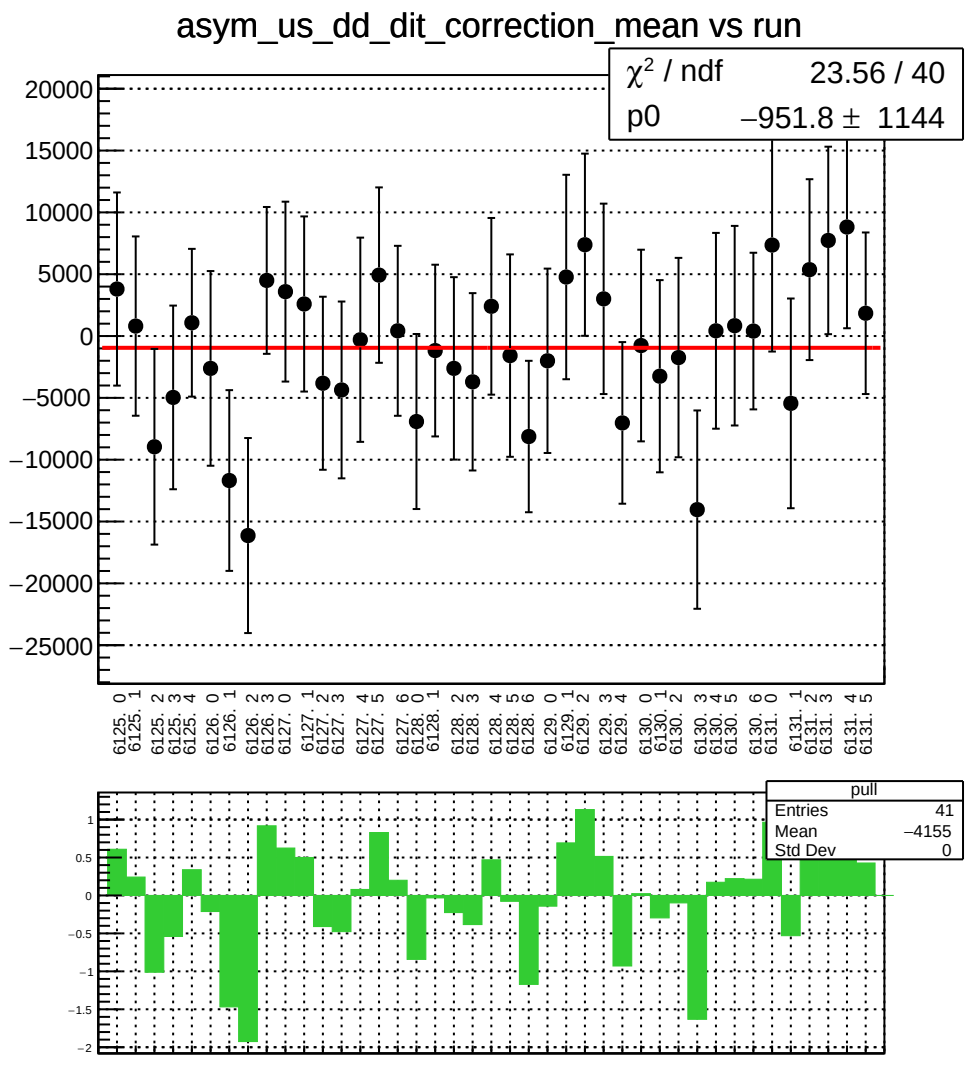

pull1D
Entries 41
Mean −0.002072
Std Dev 0.7613

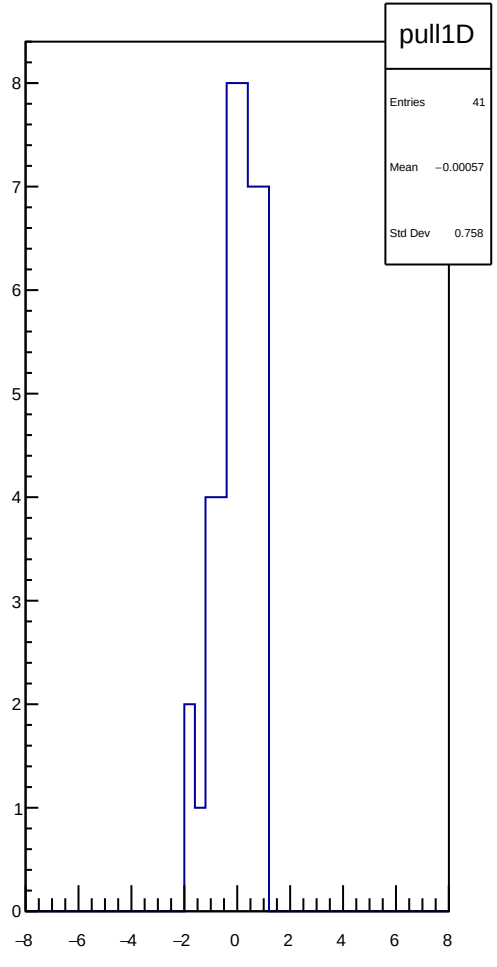

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 2513 / 40
p0 721.7 ± 0.806
820
800
780
760
740
720
700
680
660
640
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

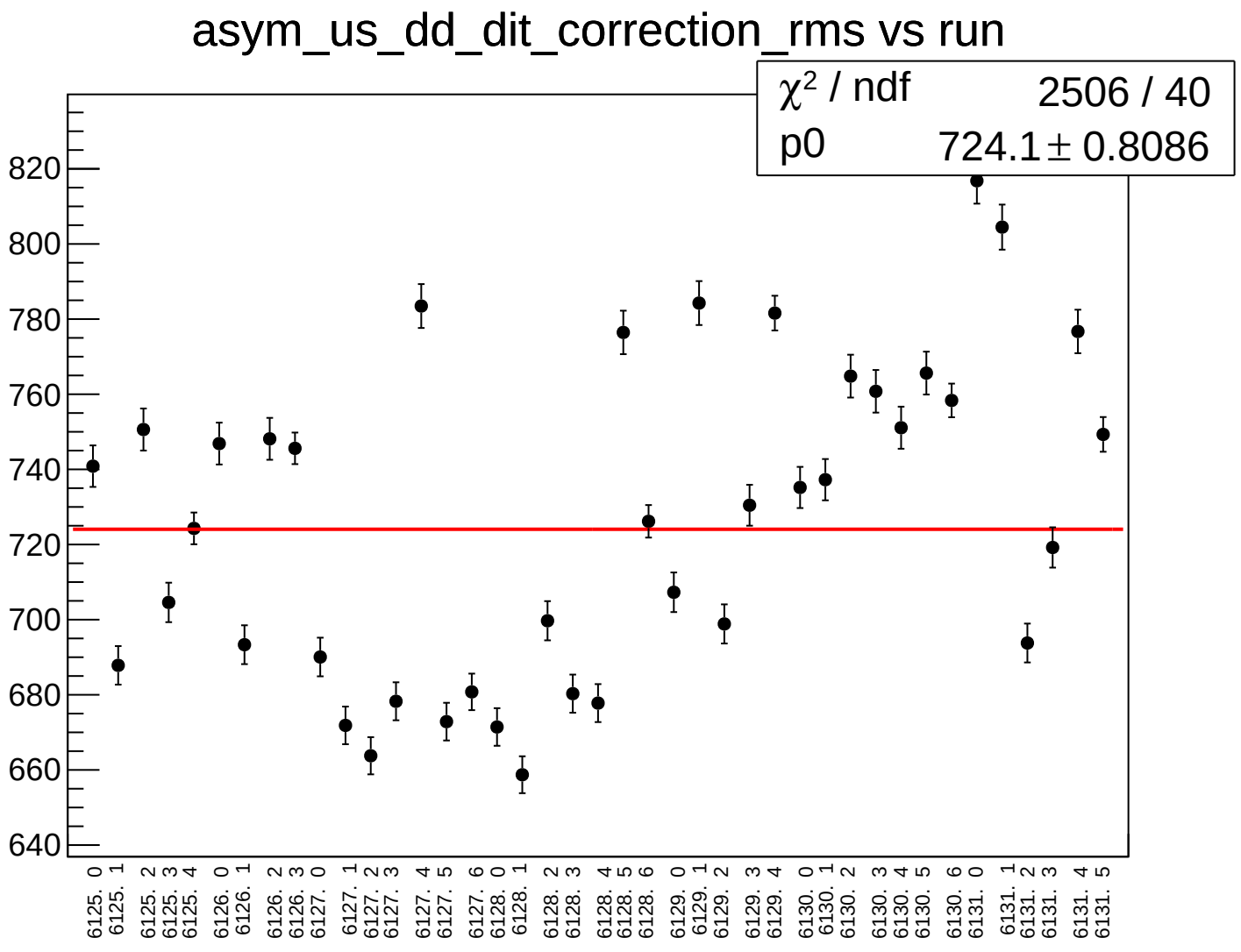

dit_asym_us_dd_mean vs run
χ² / ndf 36.56 / 40
p0 −647.3 ± 1248
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 68.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

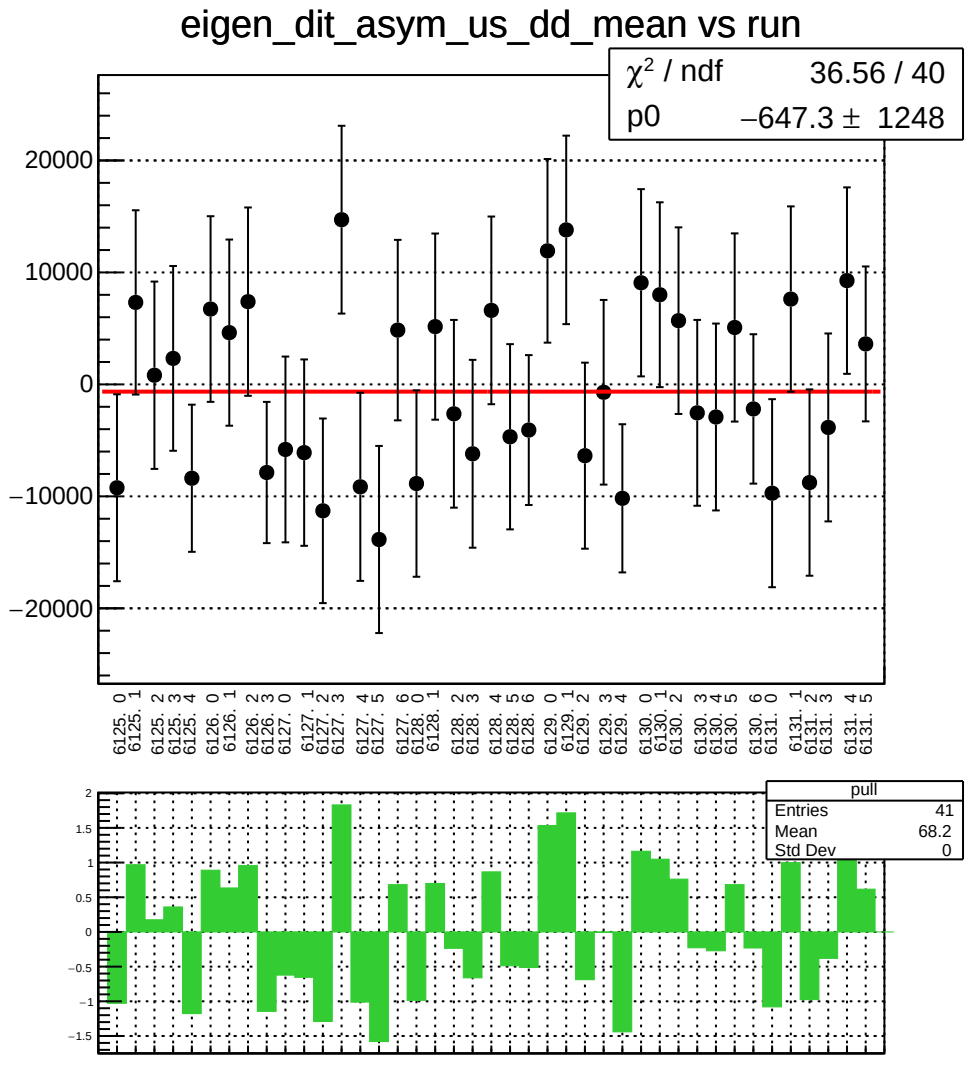

pull1D
Entries 41
Mean 0.02618
Std Dev 0.944
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

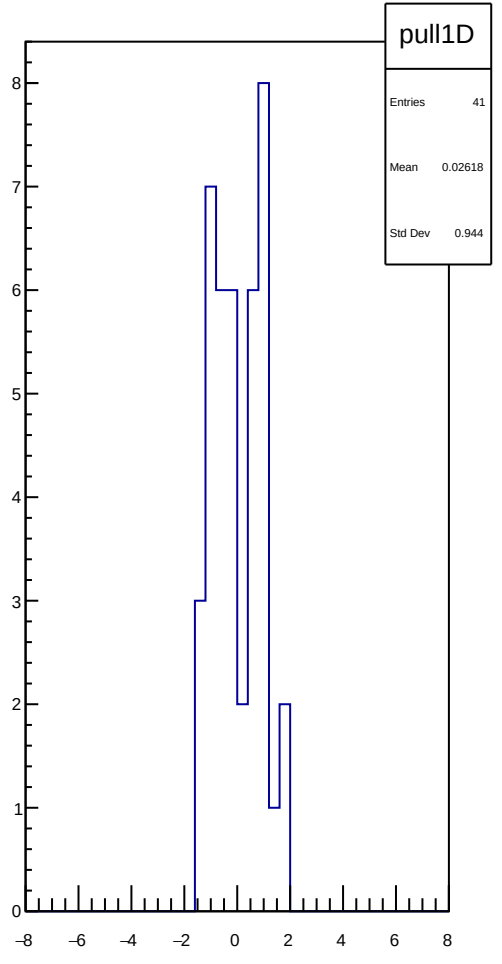

dit_asym_us_dd_rms vs run
χ² / ndf 36.84 / 40
p0 791.2 ± 0.8823
805
800
795
790
785
780
775
770
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

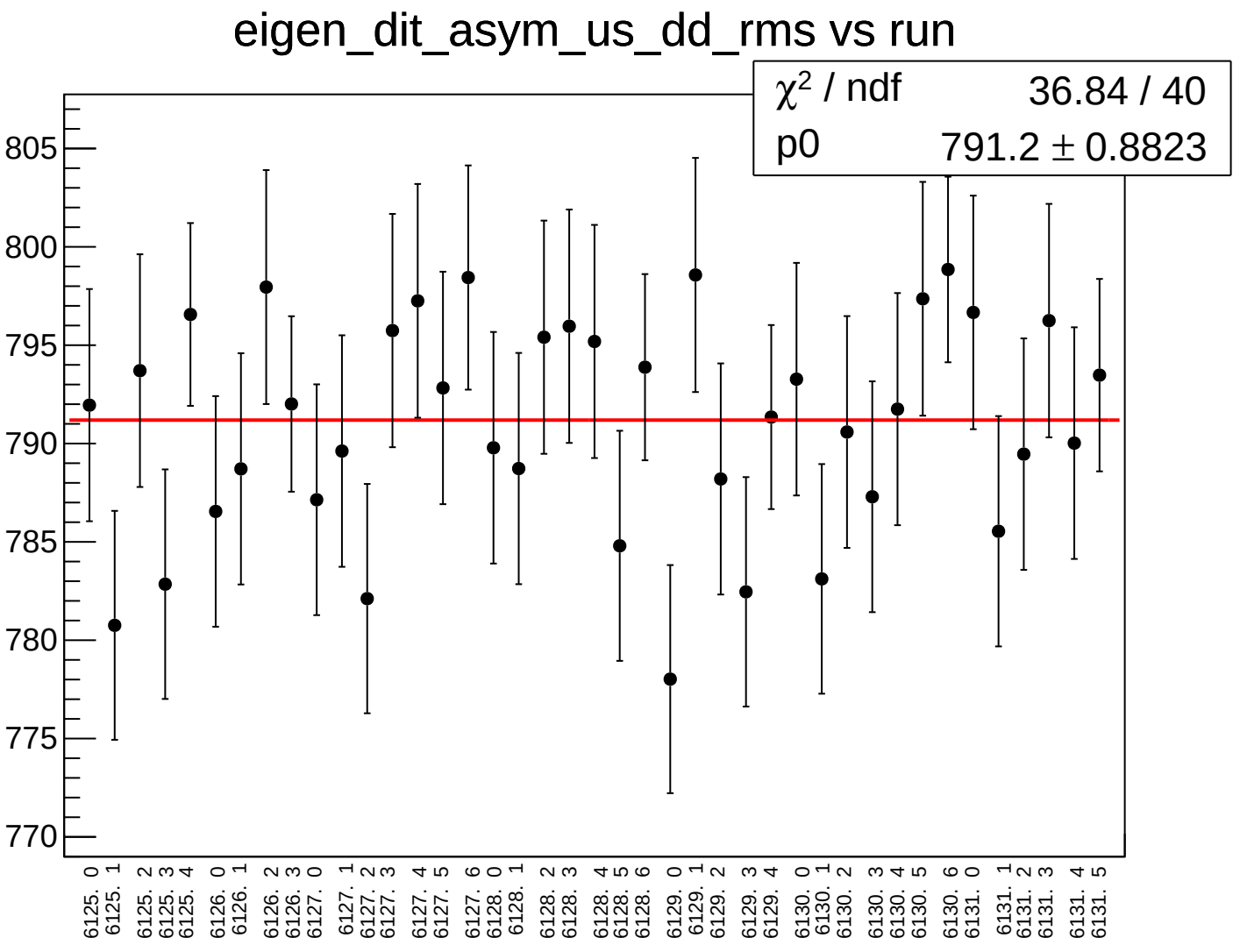

asym_us_dd_dit_correction_mean vs run
χ² / ndf 23.56 / 40
p0 −951.8 ± 1144
pull
Entries 41
Mean −4155
Std Dev 0

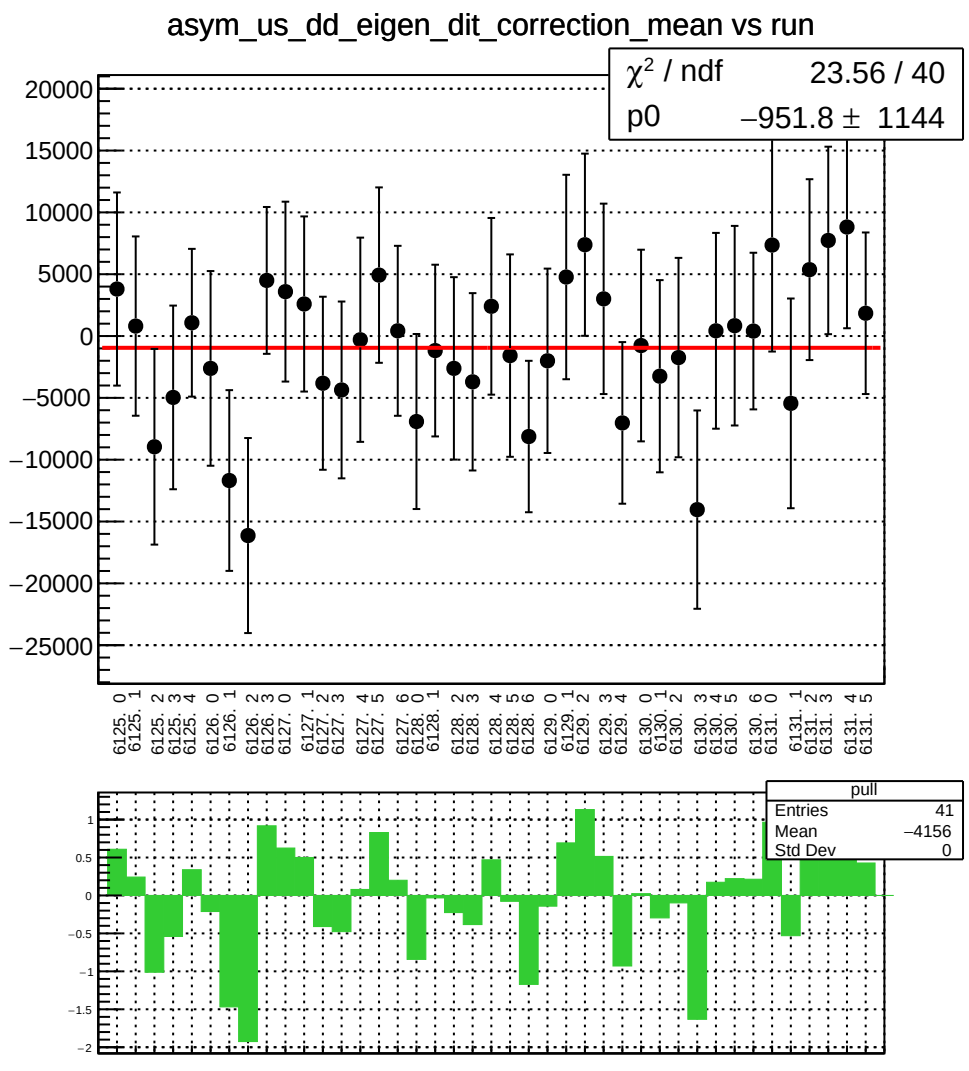

pull1D
Entries 41
Mean −0.00057
Std Dev 0.758

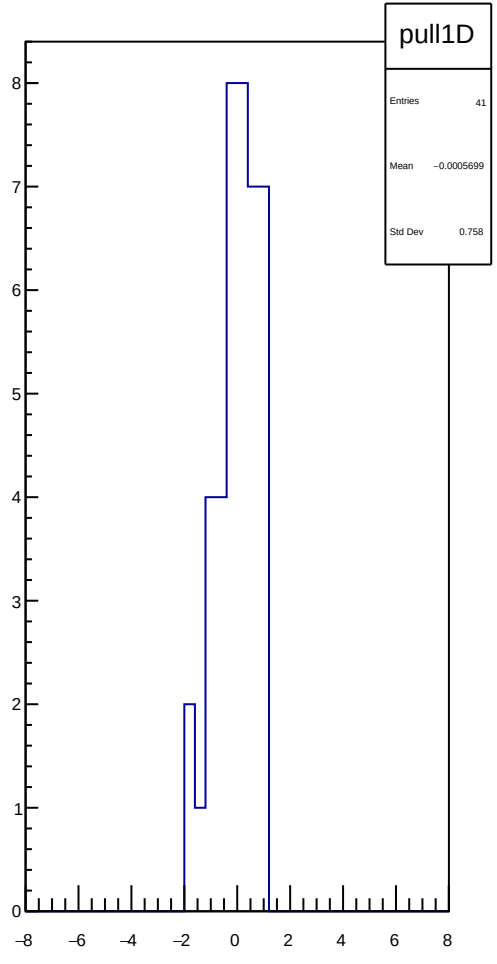

asym_us_dd_dit_correction_rms vs run
χ² / ndf 2506 / 40
p0 724.1 ± 0.8086
820
800
780
760
740
720
700
680
660
640
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

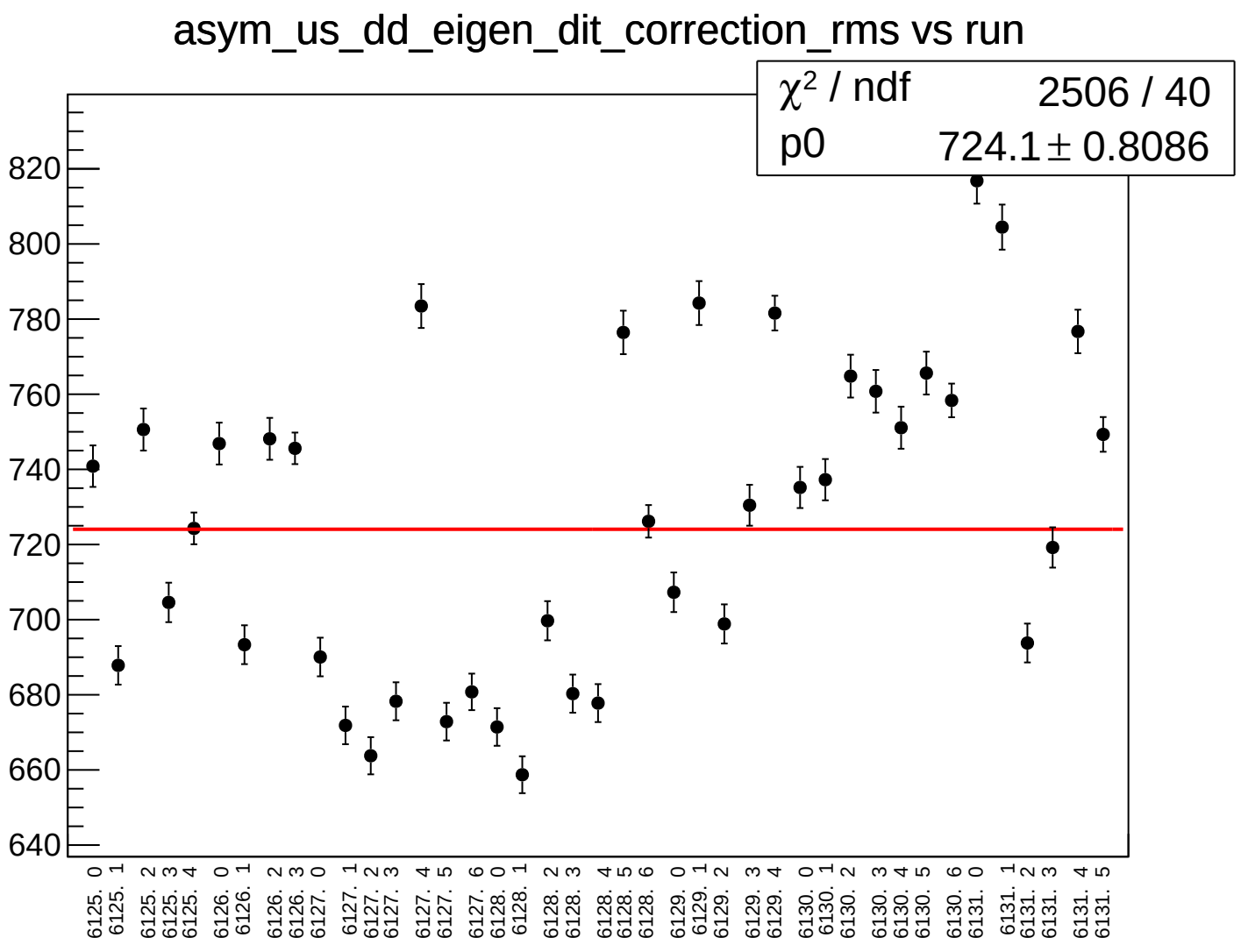

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 36.56 / 40
p0 −647.3 ± 1248
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 68.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

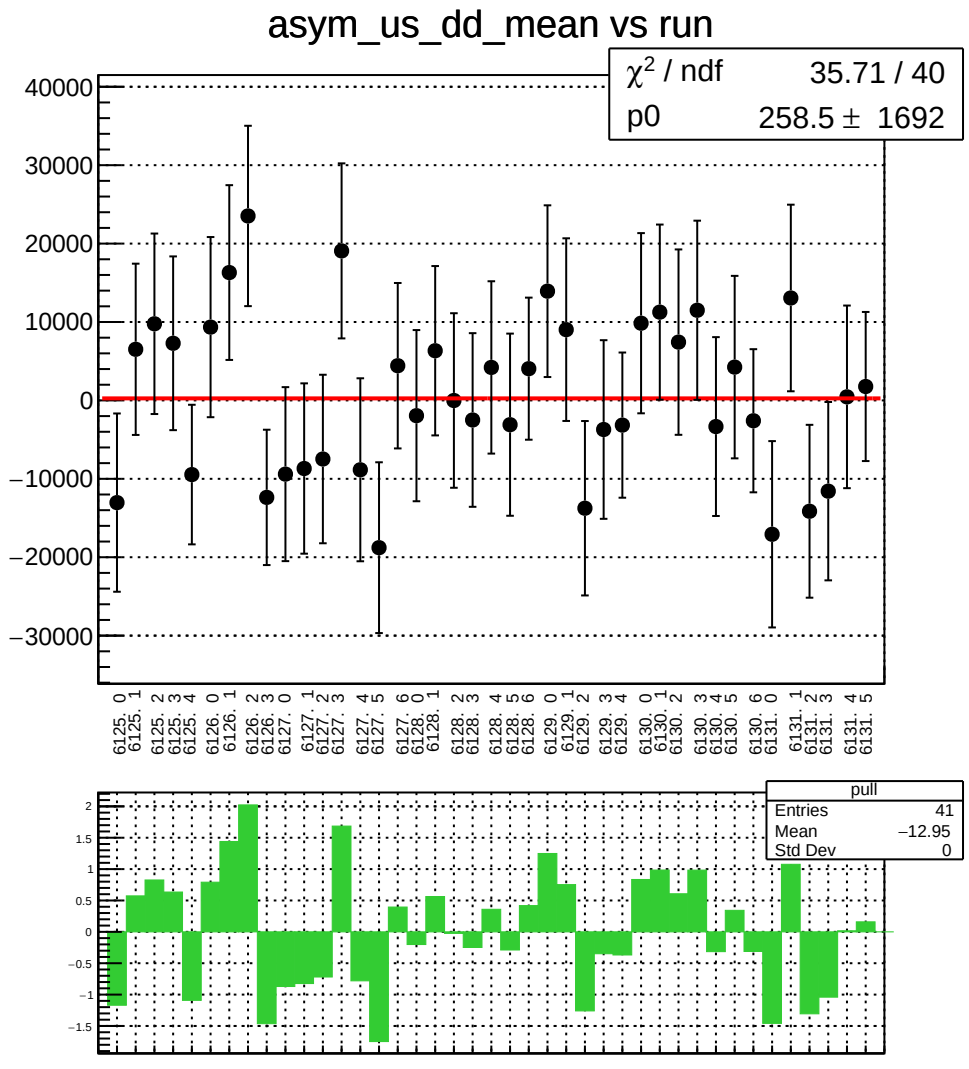

pull1D
Entries 41
Mean 0.02618
Std Dev 0.944
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

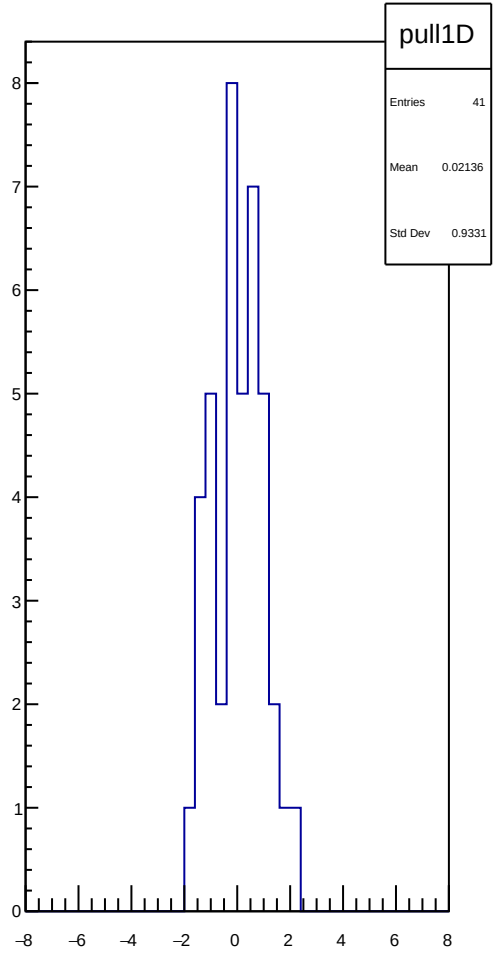

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 36.84 / 40
p0 791.2 ± 0.8823
805
800
795
790
785
780
775
770
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

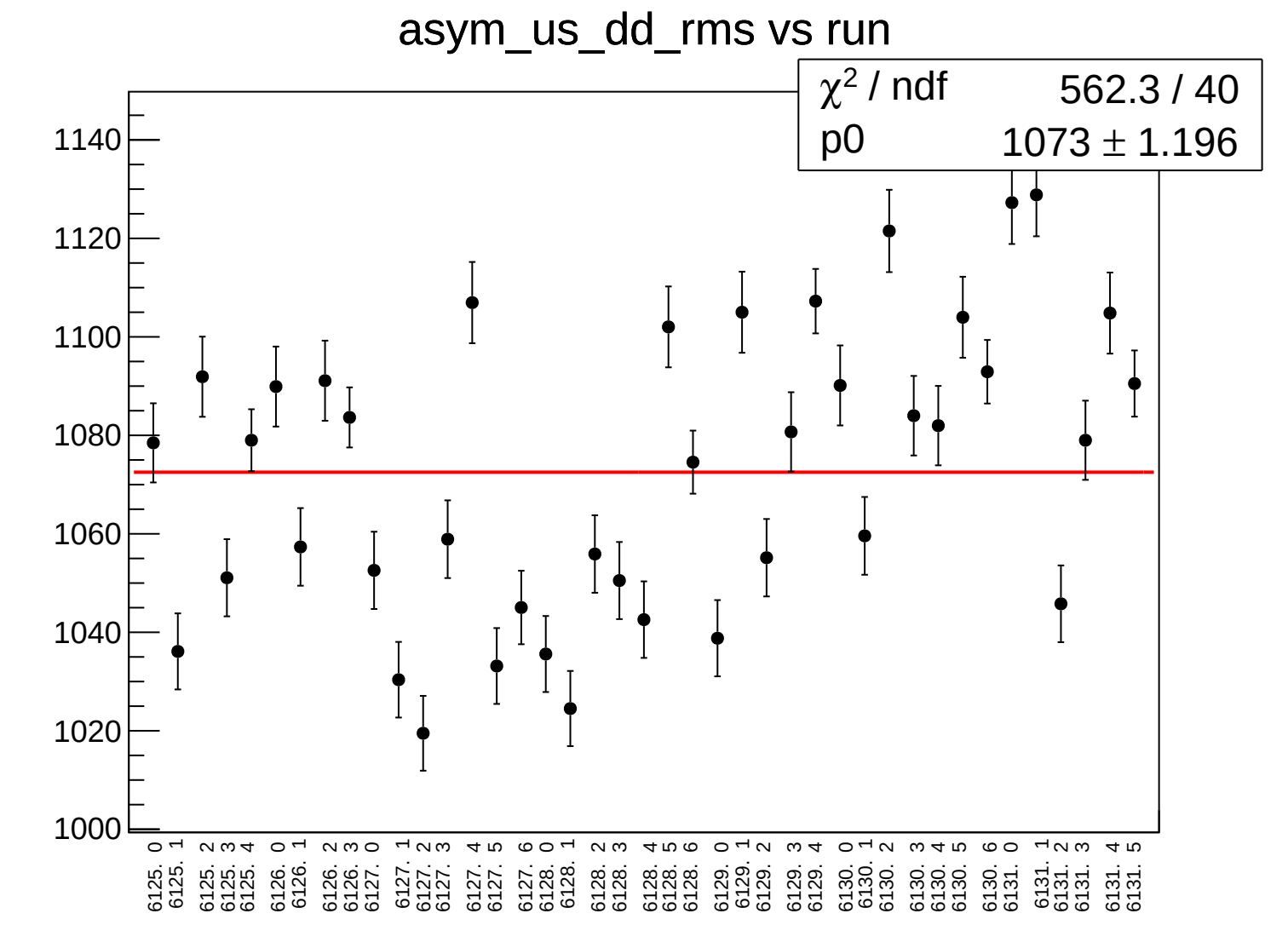

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 23.56 / 40
p0 −951.8 ± 1144
pull
Entries 41
Mean −4156
Std Dev 0

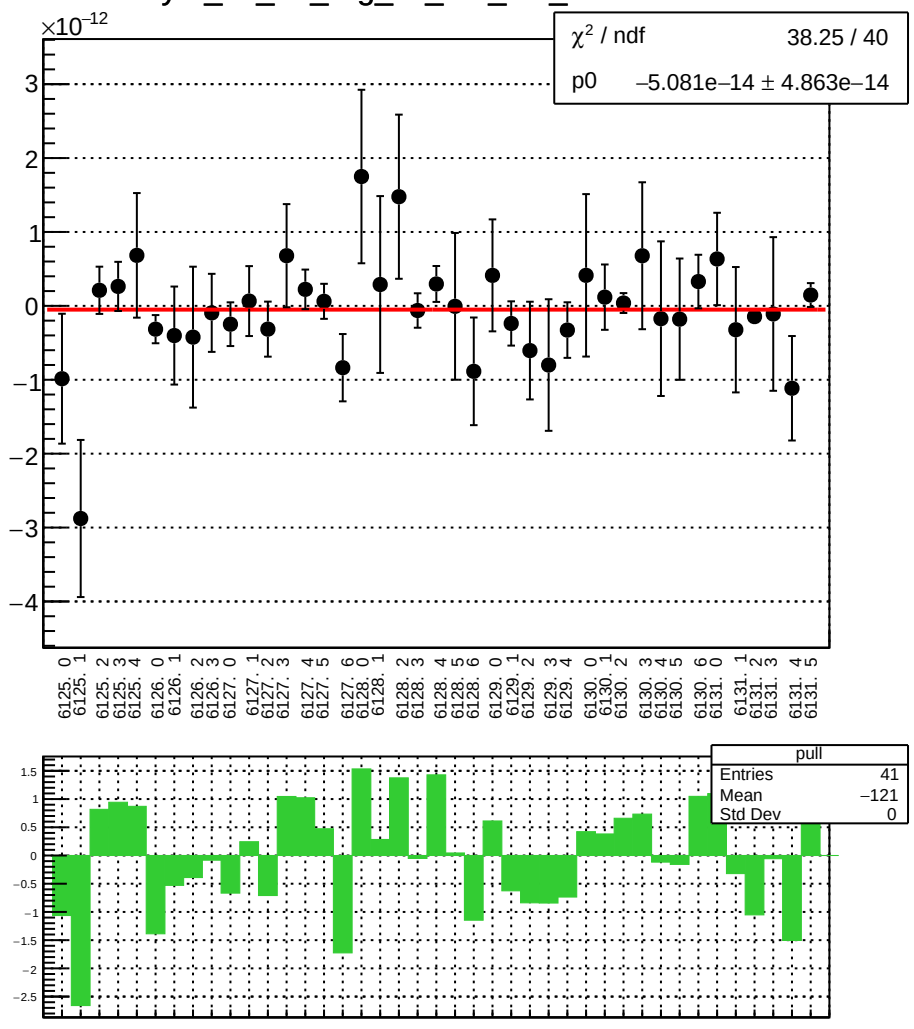

pull1D
Entries 41
Mean −0.0005699
Std Dev 0.758

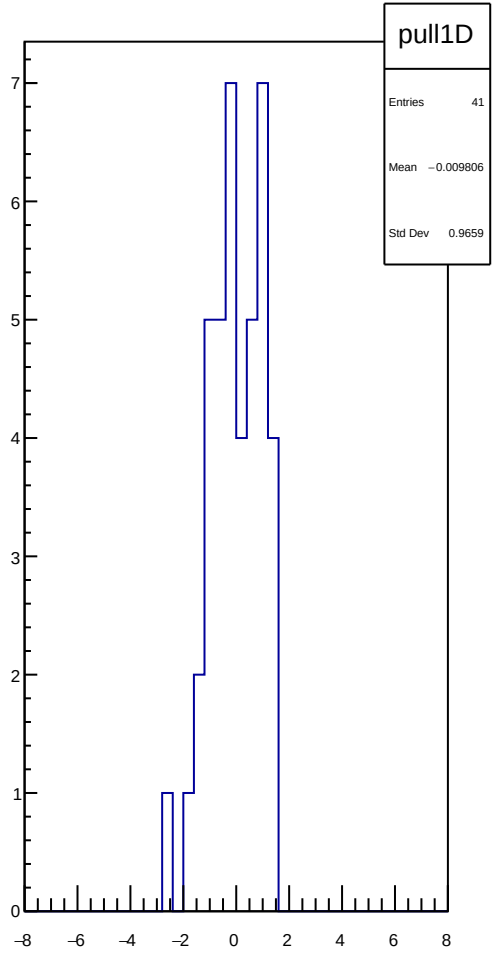

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 2506 / 40
p0 724.1 ± 0.8086
820
800
780
760
740
720
700
680
660
640
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

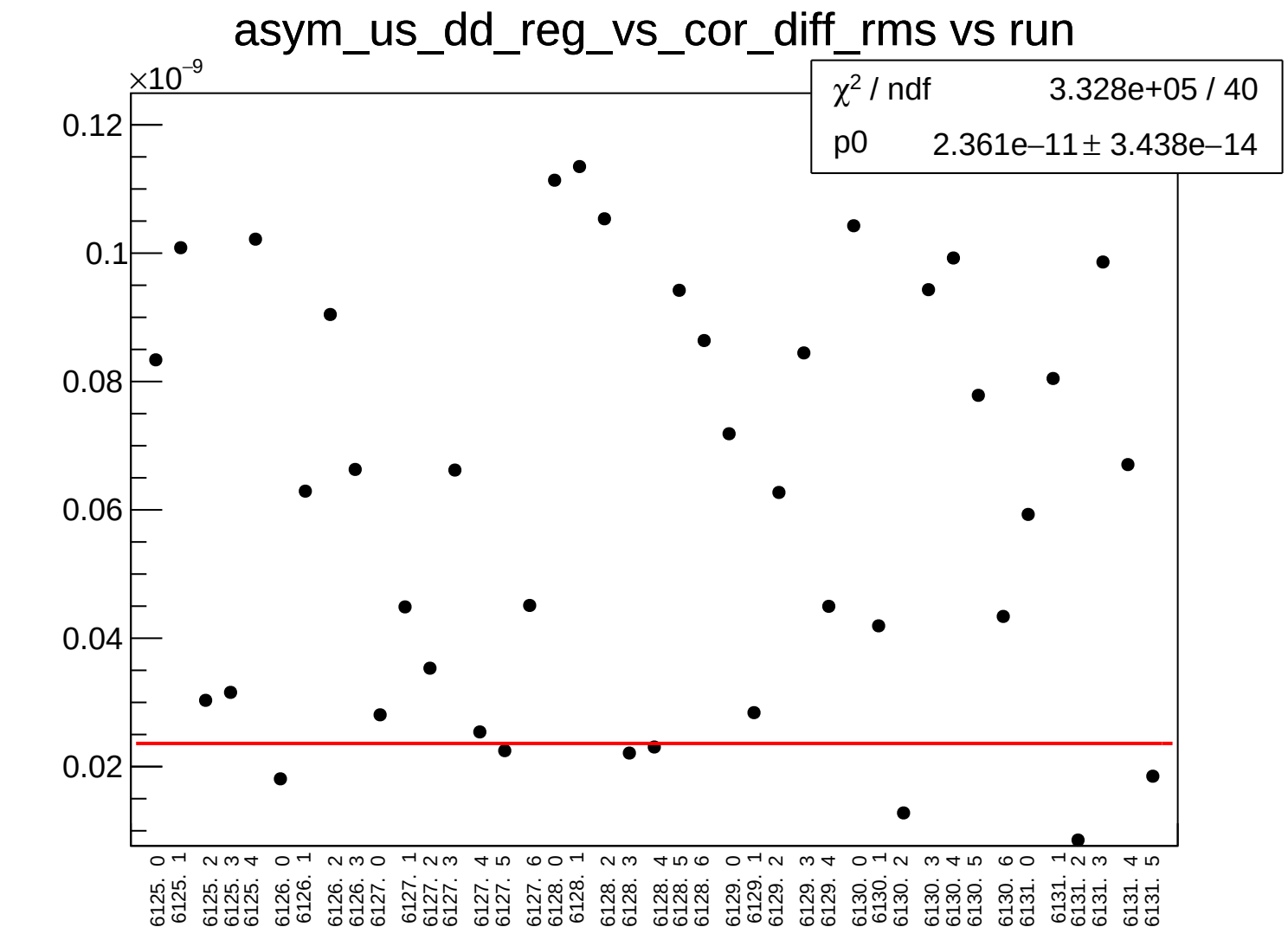

asym_us_dd_mean vs run
χ² / ndf 35.71 / 40
p0 258.5 ± 1692
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −12.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

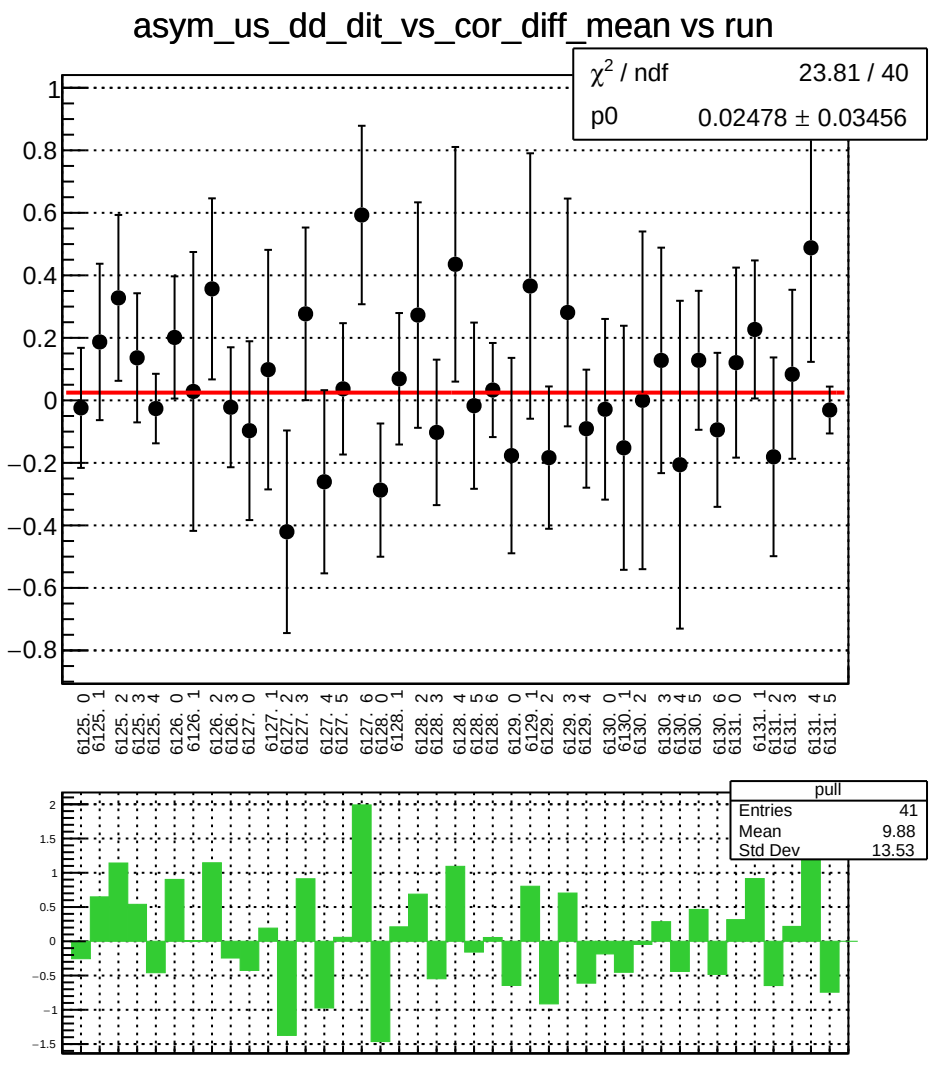

pull1D
Entries 41
Mean 0.02136
Std Dev 0.9331
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

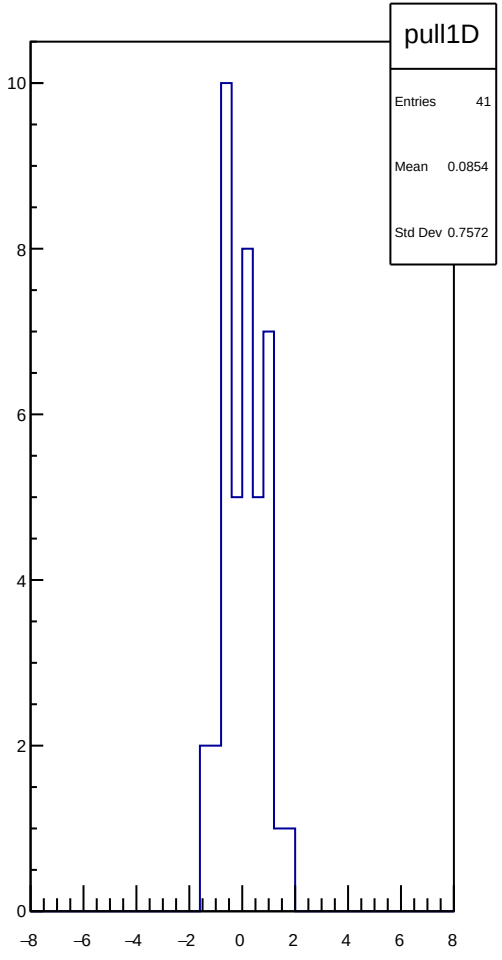

asym_us_dd_rms vs run
χ² / ndf 562.3 / 40
p0 1073 ± 1.196
1140
1120
1100
1080
1060
1040
1020
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

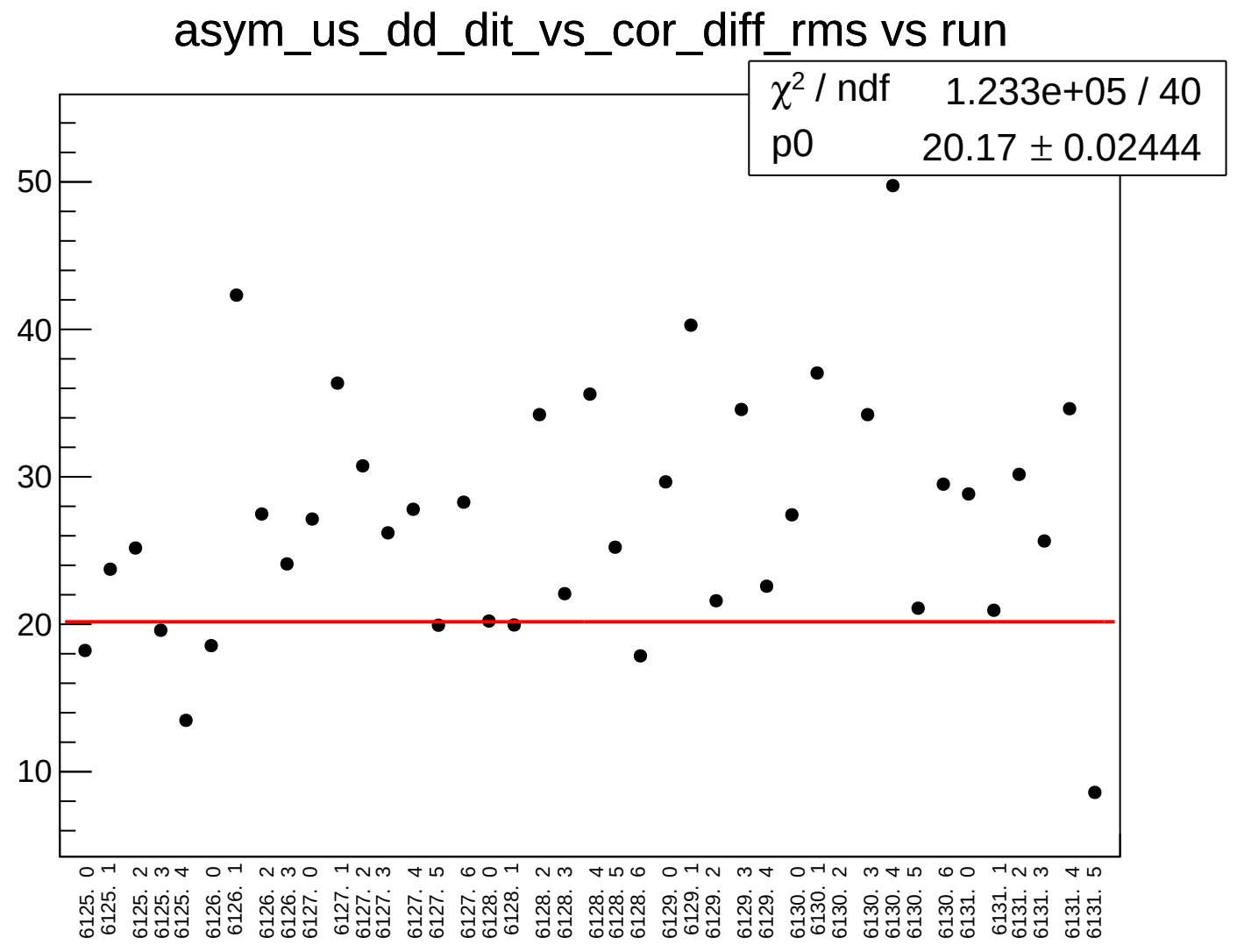

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.25 / 40
p0 −5.081e−14 ± 4.863e−14
pull
Entries 41
Mean −121
Std Dev 0

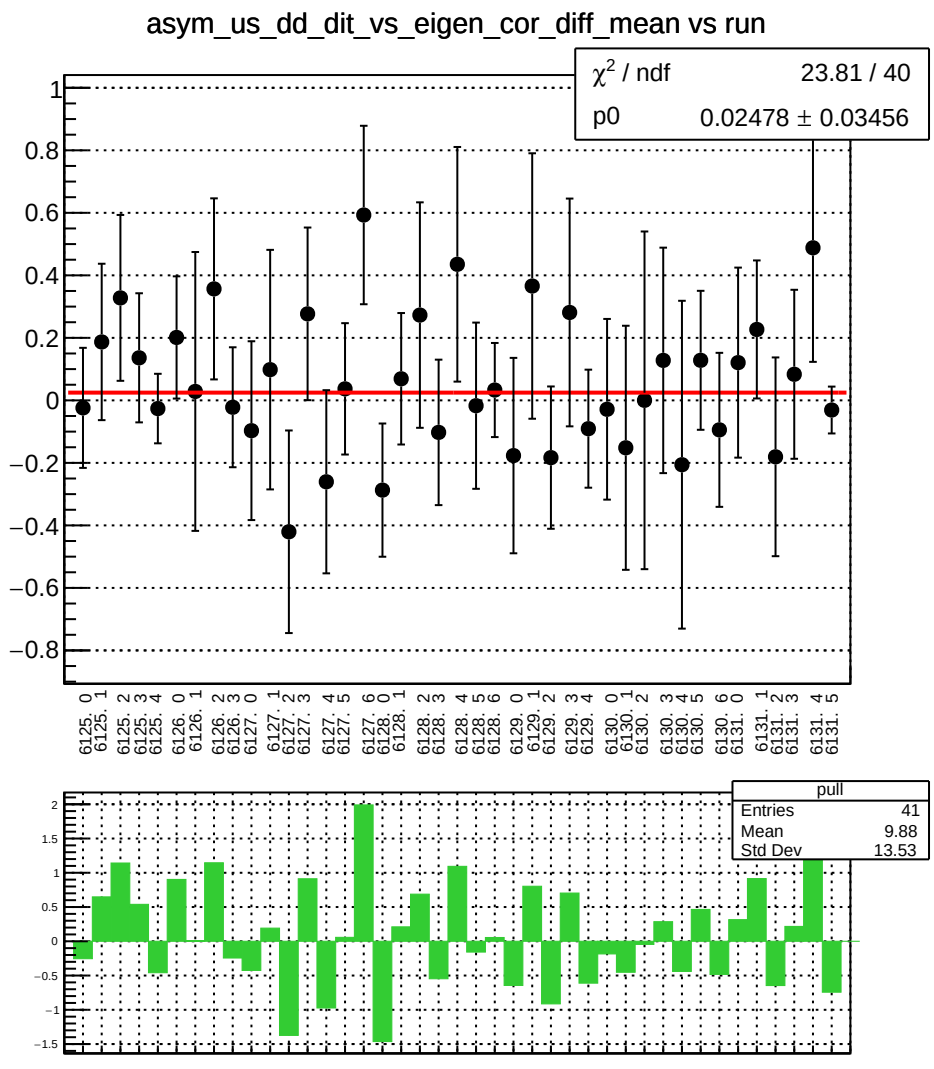

pull1D
Entries 41
Mean −0.009806
Std Dev 0.9659

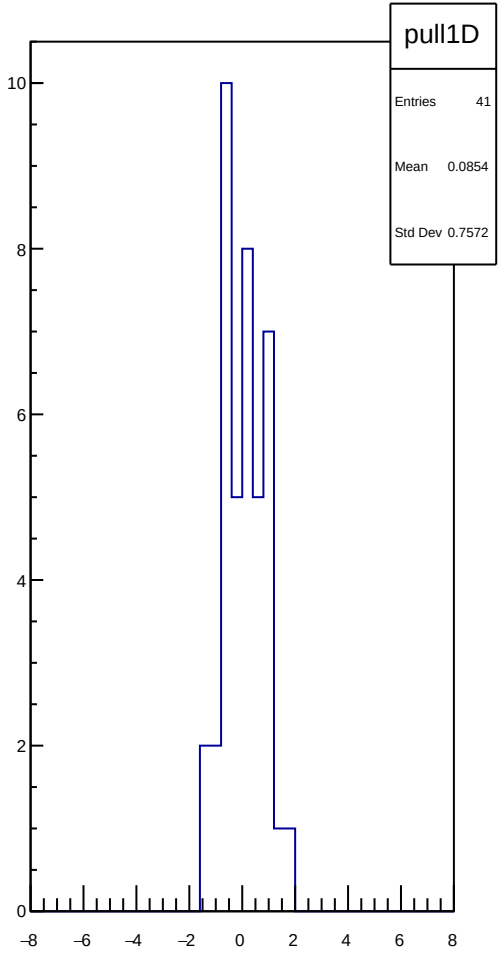

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.328e+05 / 40
p0 2.361e−11 ± 3.438e−14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

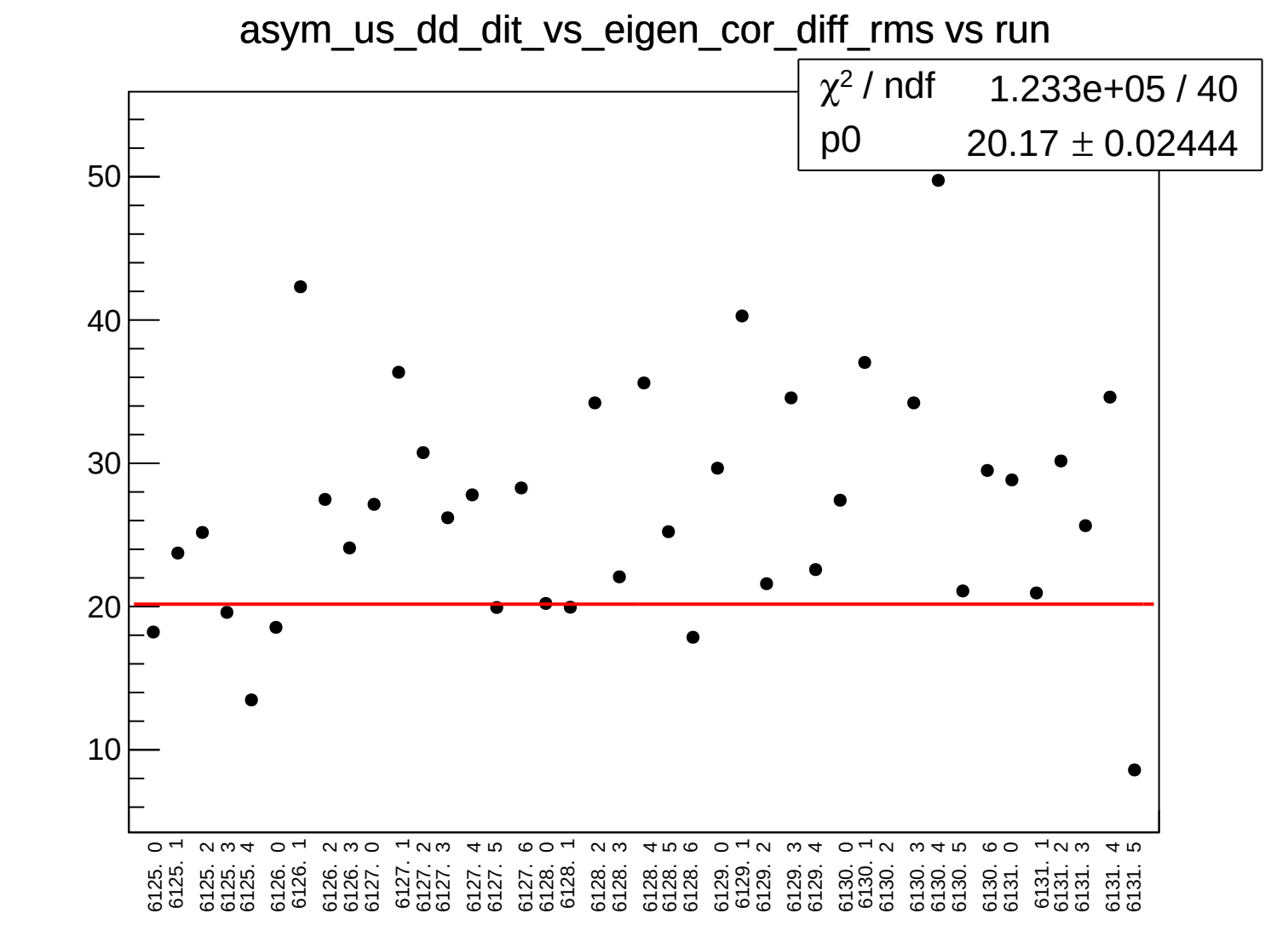

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 23.81 / 40
p0 0.02478 ± 0.03456
pull
Entries 41
Mean 9.88
Std Dev 13.53

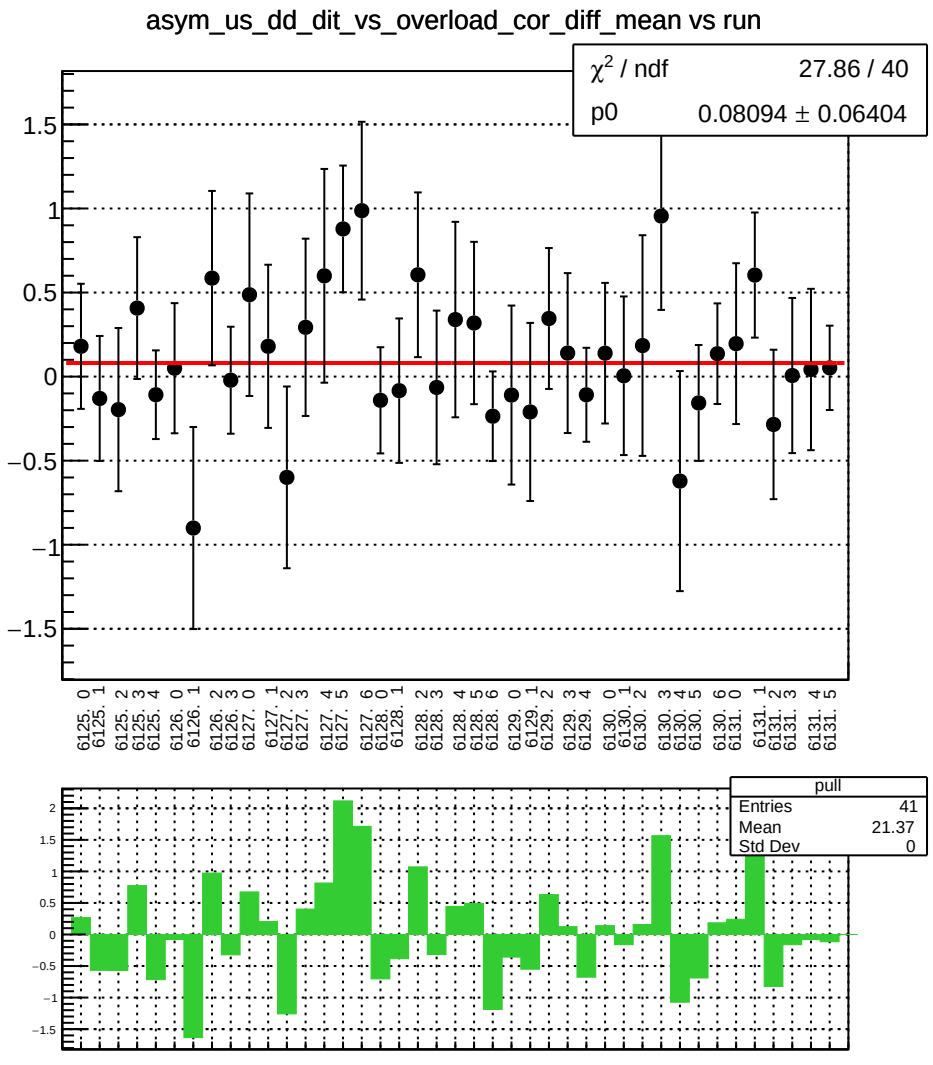

pull1D
Entries 41
Mean 0.0854
Std Dev 0.7572

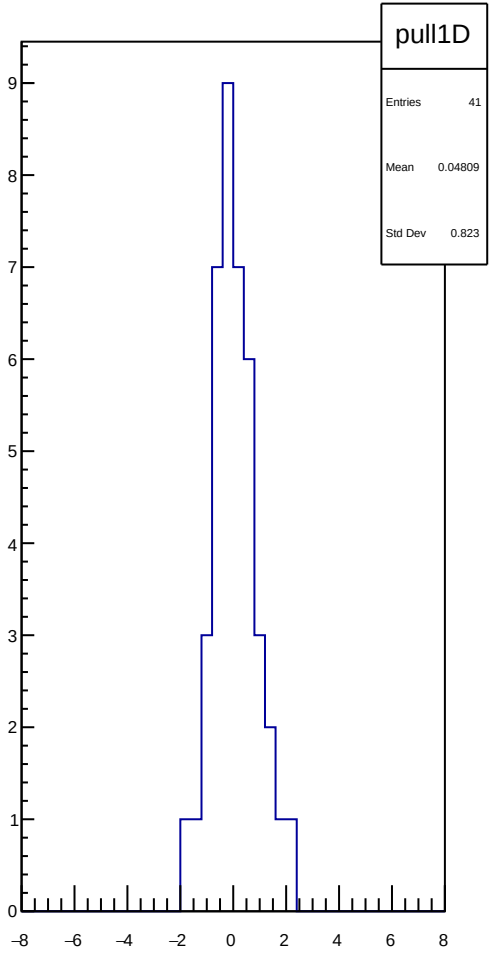

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.233e+05 / 40
p0 20.17 ± 0.02444
50
40
30
20
10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

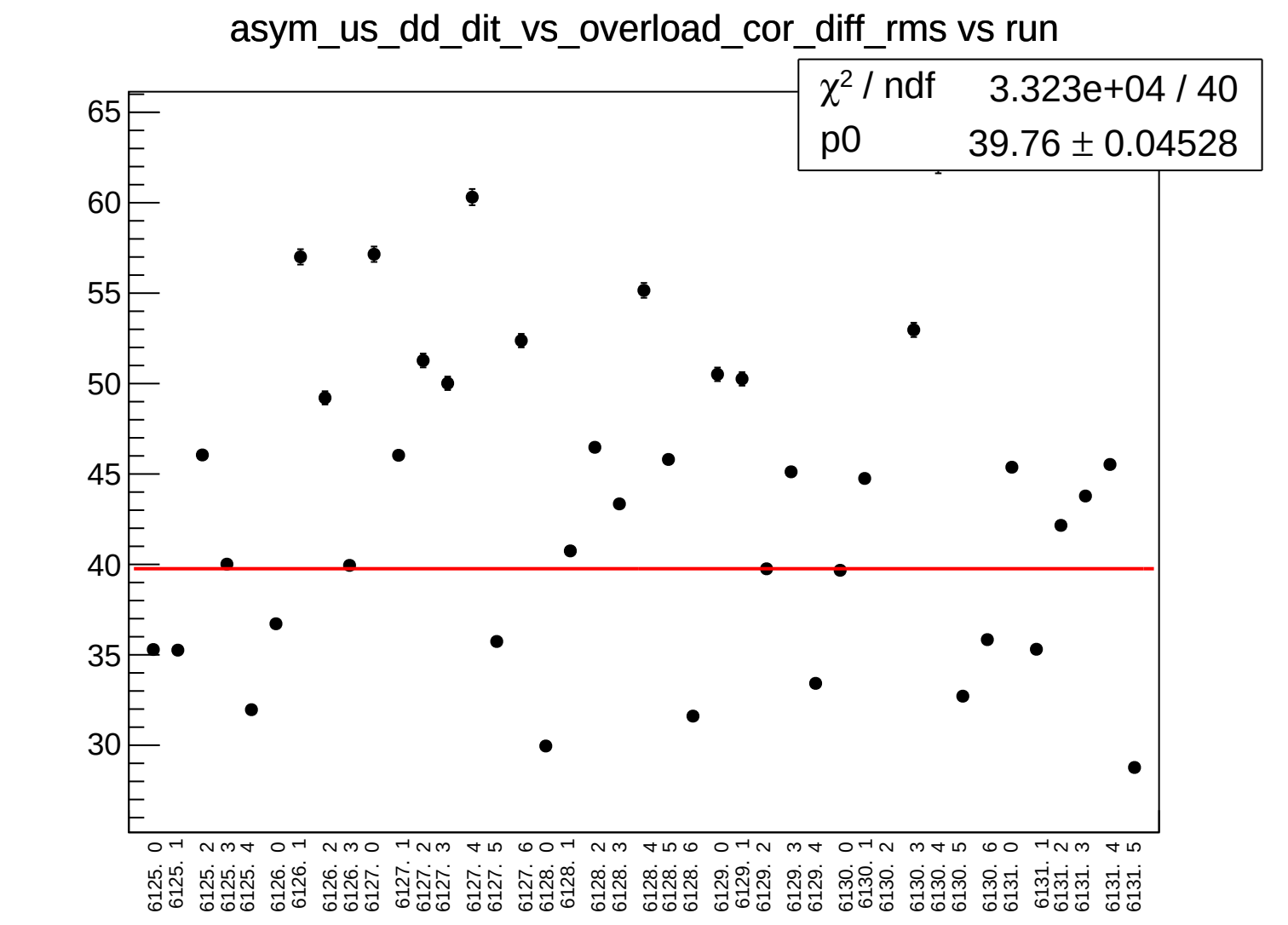

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.81 / 40
p0 0.02478 ± 0.03456
pull
Entries 41
Mean 9.88
Std Dev 13.53

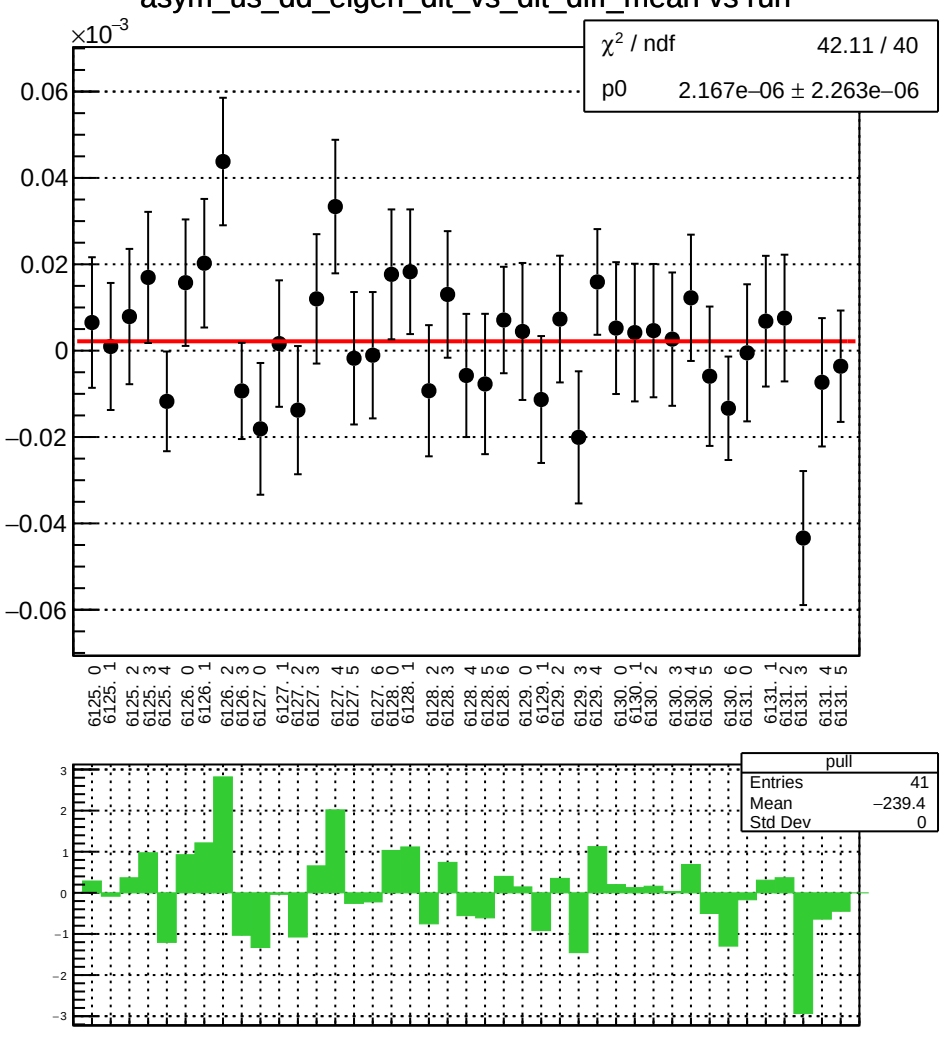

pull1D
Entries 41
Mean 0.0854
Std Dev 0.7572

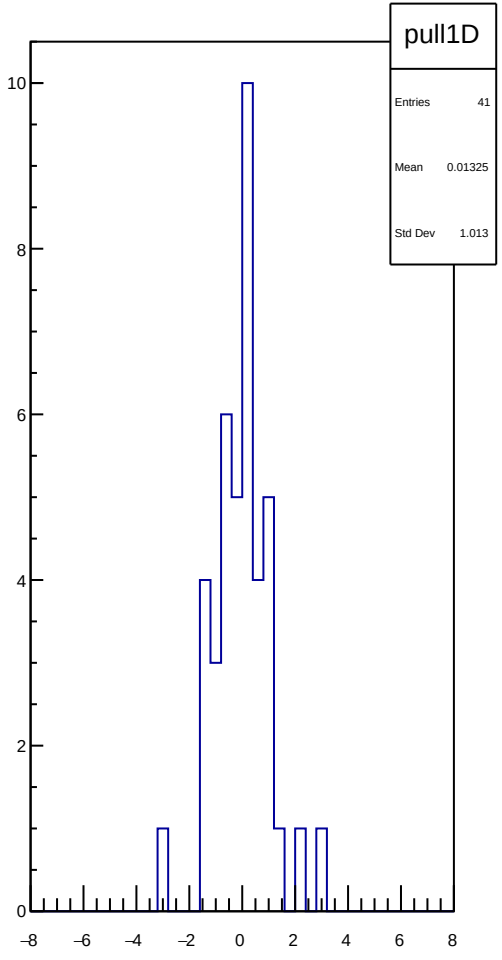

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.233e+05 / 40
p0 20.17 ± 0.02444
50
40
30
20
10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

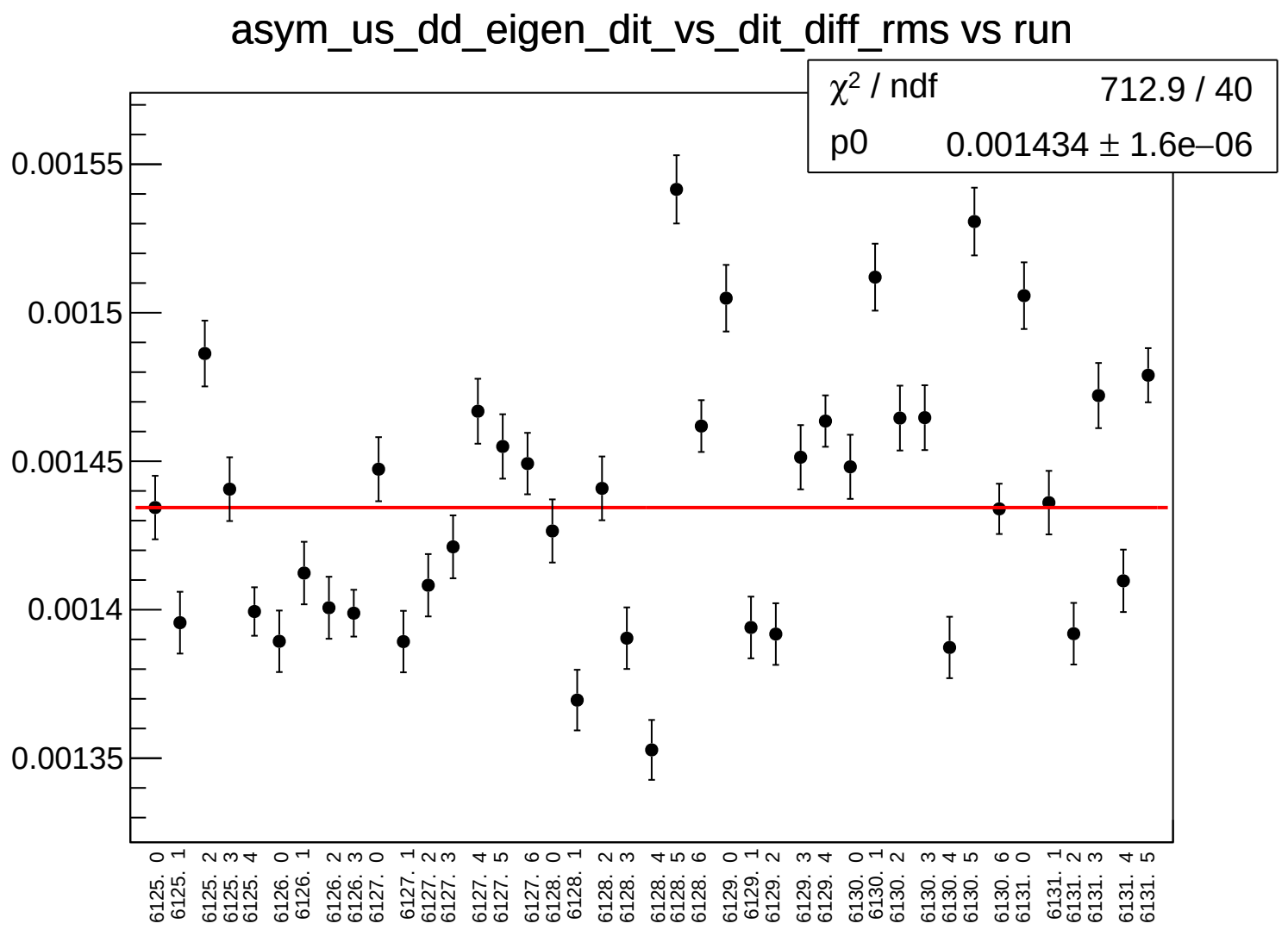

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 27.86 / 40
p0 0.08094 ± 0.06404
pull
Entries 41
Mean 21.37
Std Dev 0

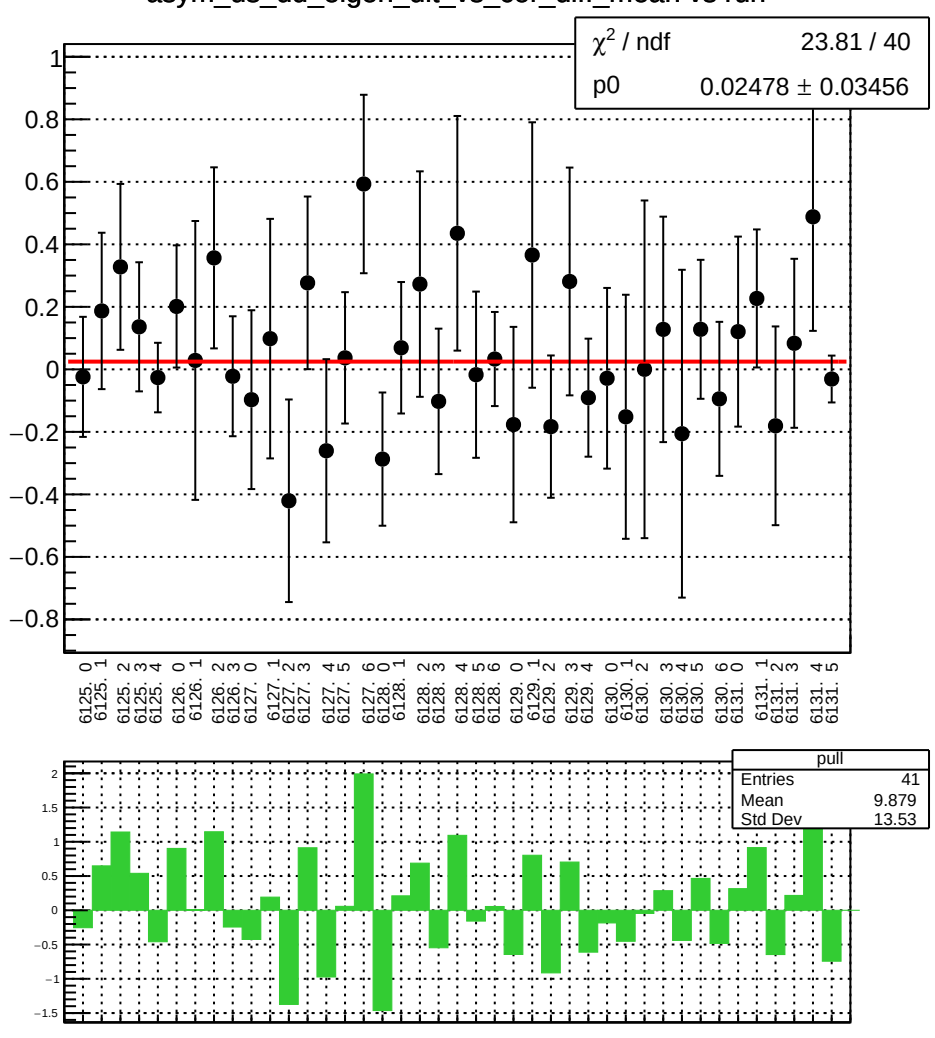

pull1D
Entries 41
Mean 0.04809
Std Dev 0.823

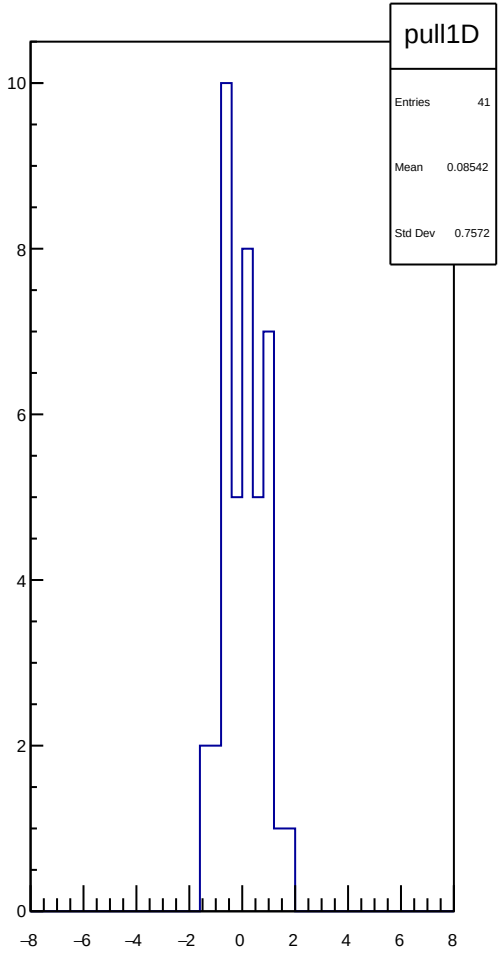

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.323e+04 / 40
p0 39.76 ± 0.04528
65
60
55
50
45
40
35
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

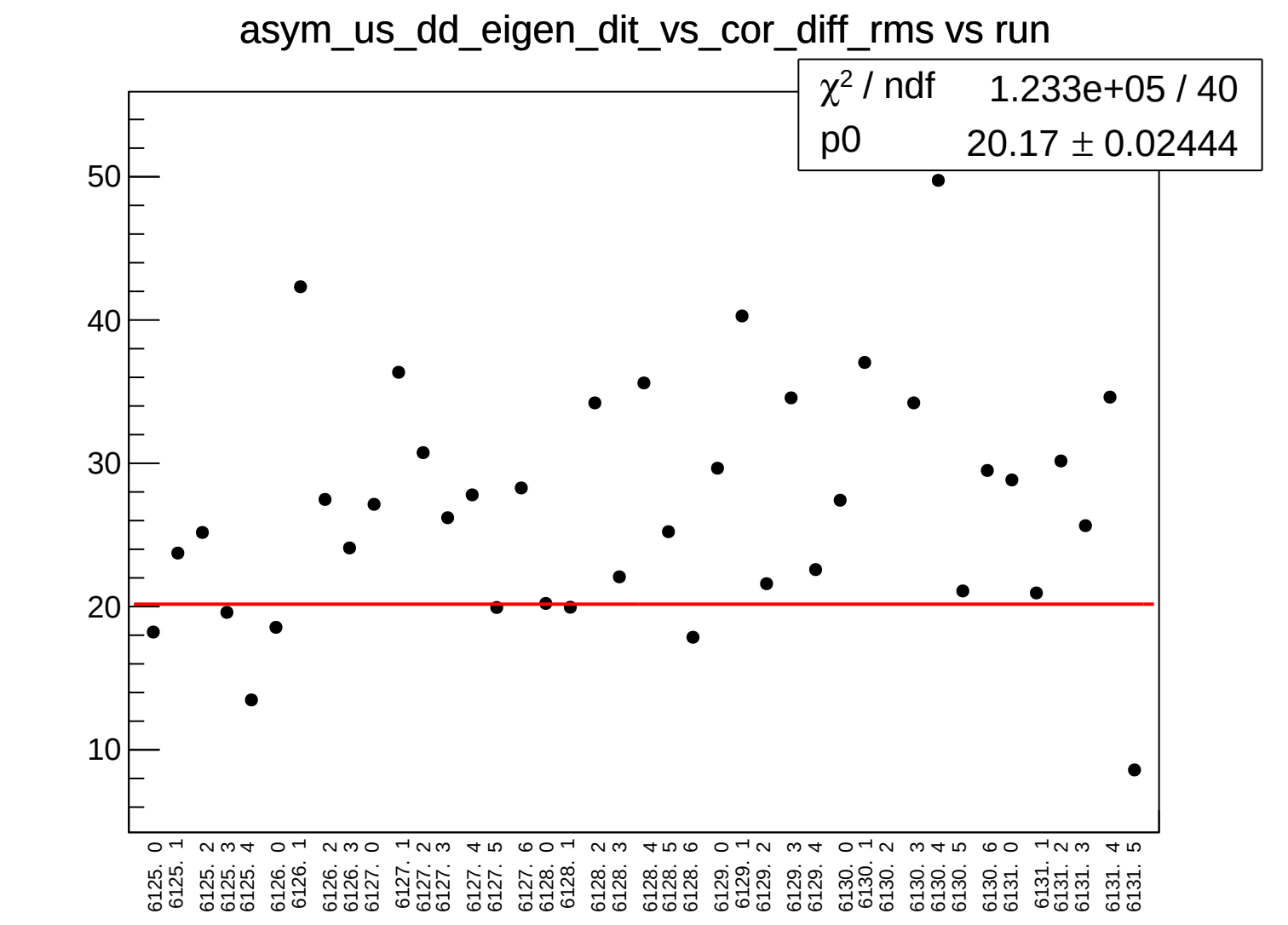

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 42.11 / 40
p0 2.167e−06 ± 2.263e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −239.4
Std Dev 0
3
2
1
0
−1
−2
−3

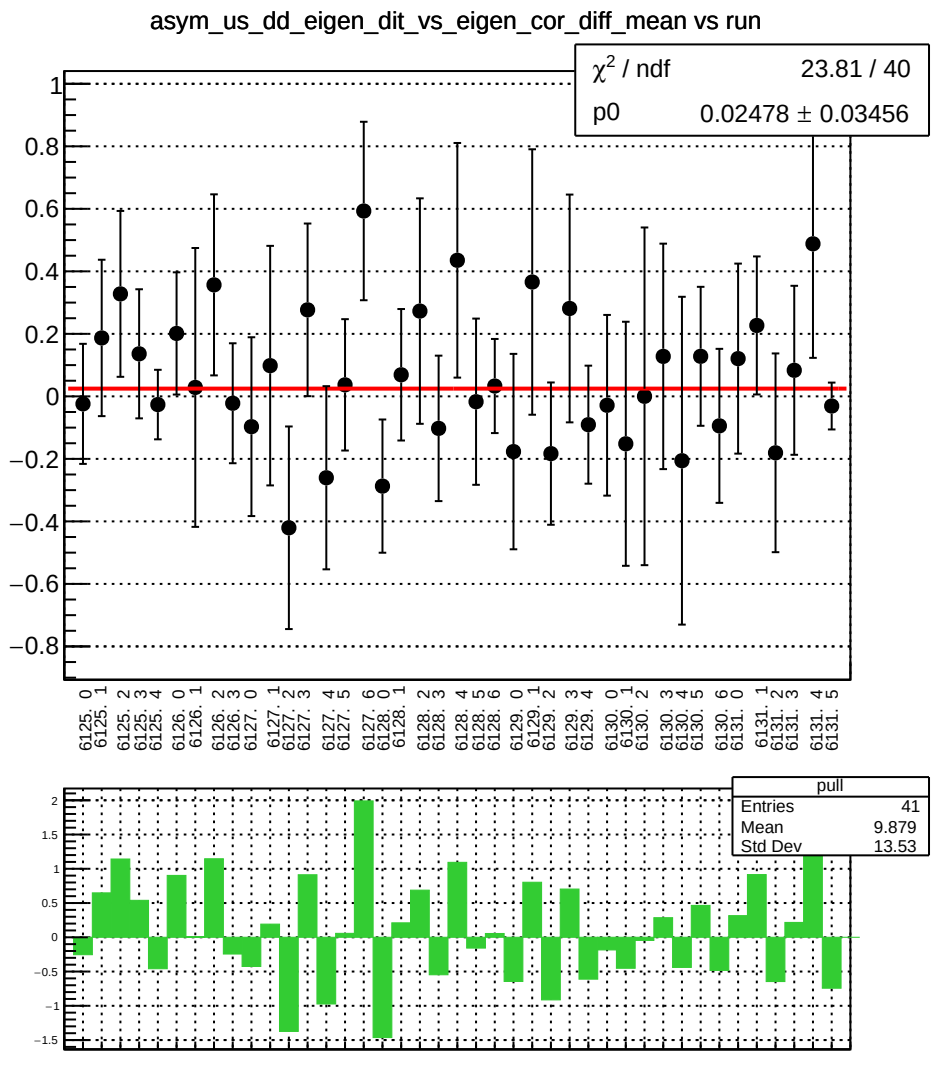

pull1D
Entries 41
Mean 0.01325
Std Dev 1.013
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

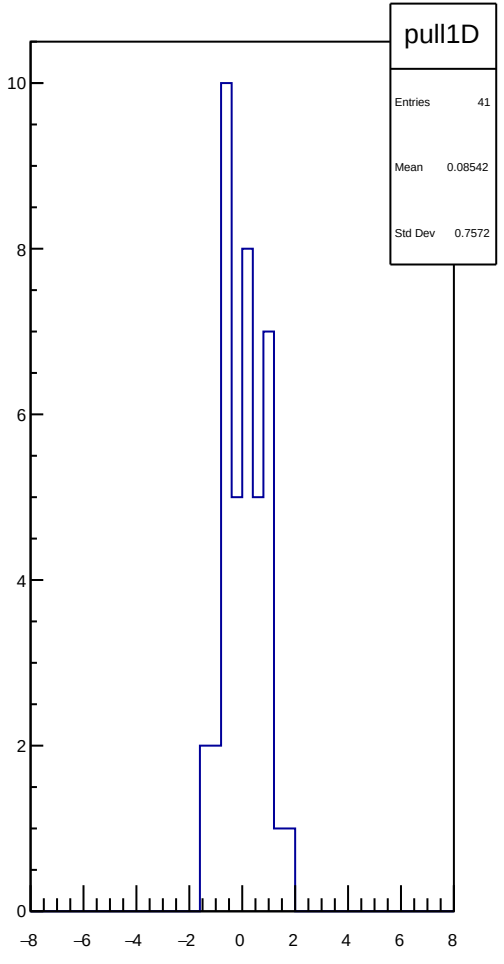

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 712.9 / 40
p0 0.001434 ± 1.6e−06
0.00155
0.0015
0.00145
0.0014
0.00135
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

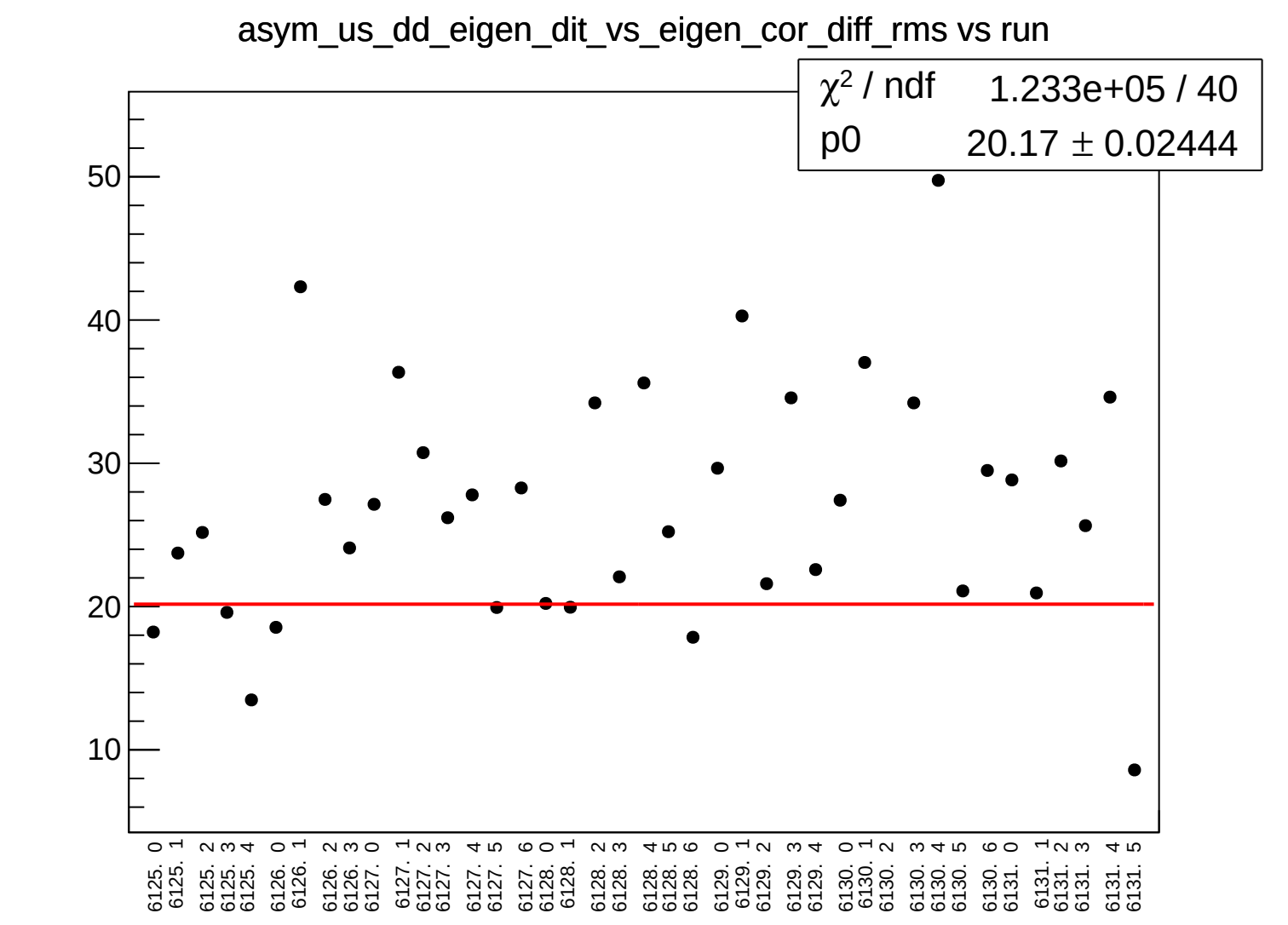

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 23.81 / 40
p0 0.02478 ± 0.03456
pull
Entries 41
Mean 9.879
Std Dev 13.53

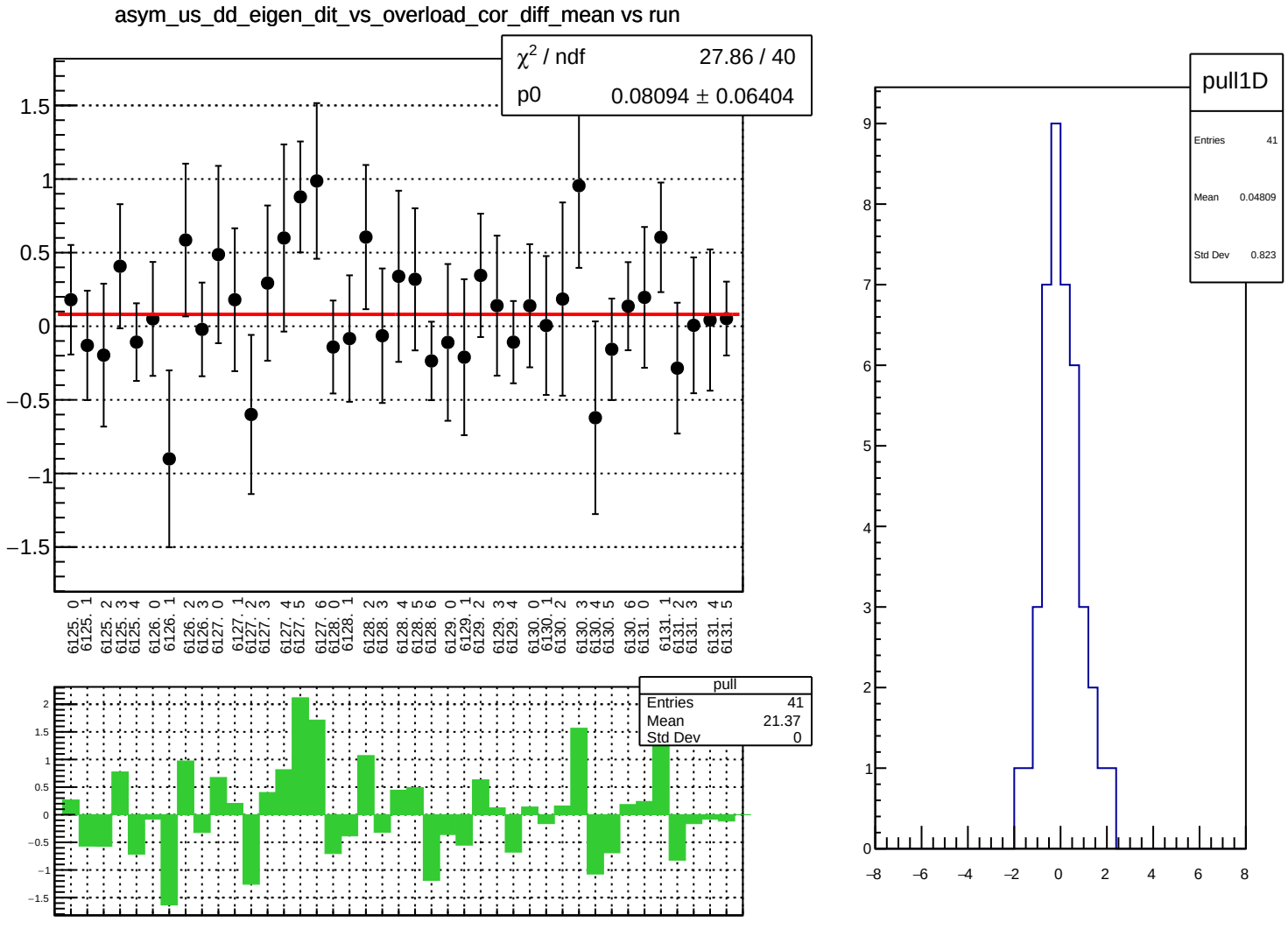

pull1D
Entries 41
Mean 0.08542
Std Dev 0.7572

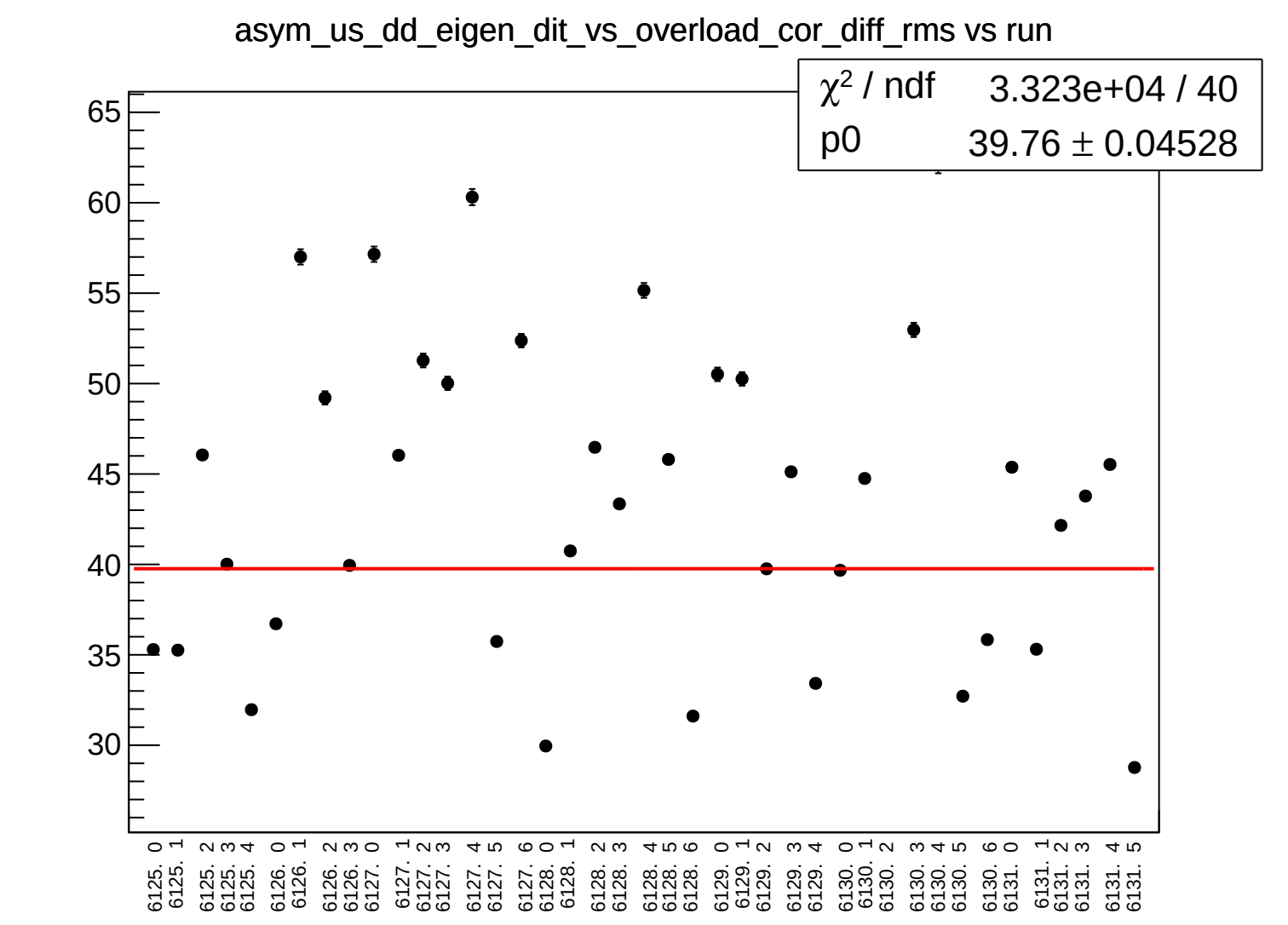

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.233e+05 / 40
p0 20.17 ± 0.02444
50
40
30
20
10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

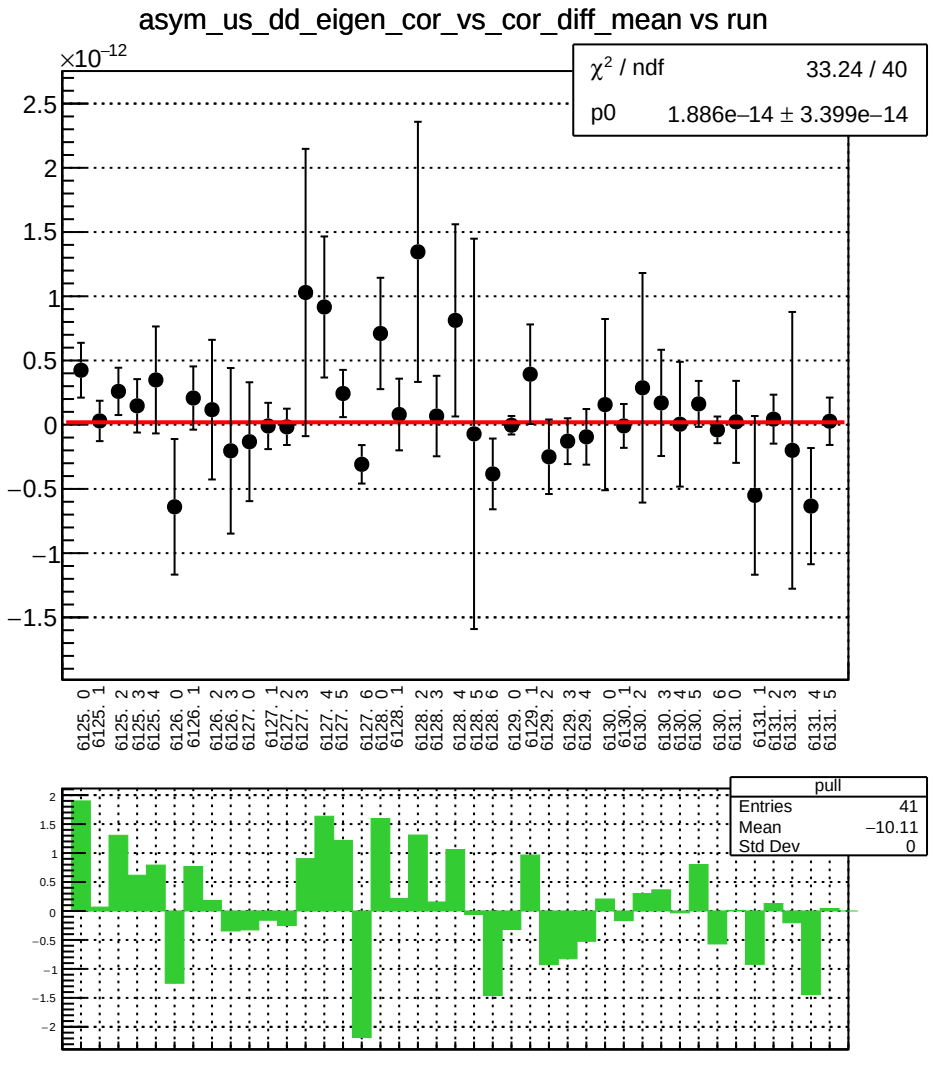

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.81 / 40
p0 0.02478 ± 0.03456
pull
Entries 41
Mean 9.879
Std Dev 13.53

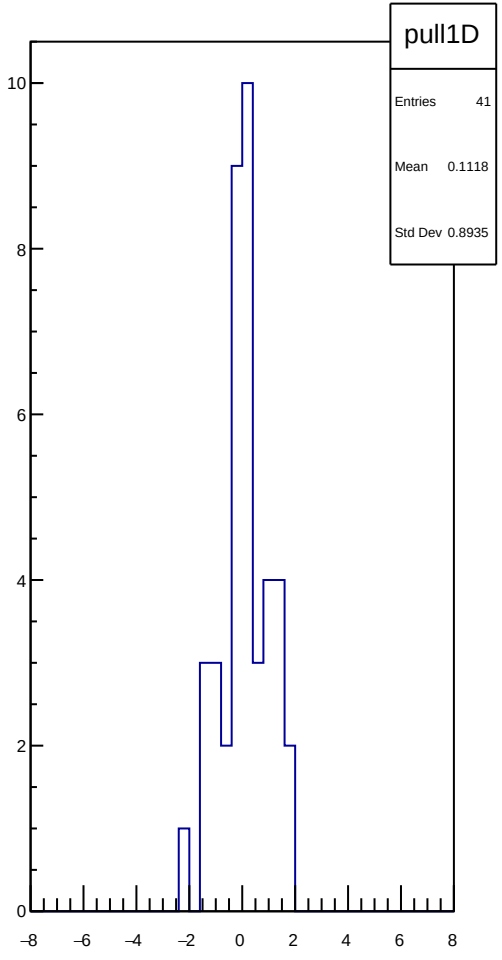

pull1D
Entries 41
Mean 0.08542
Std Dev 0.7572

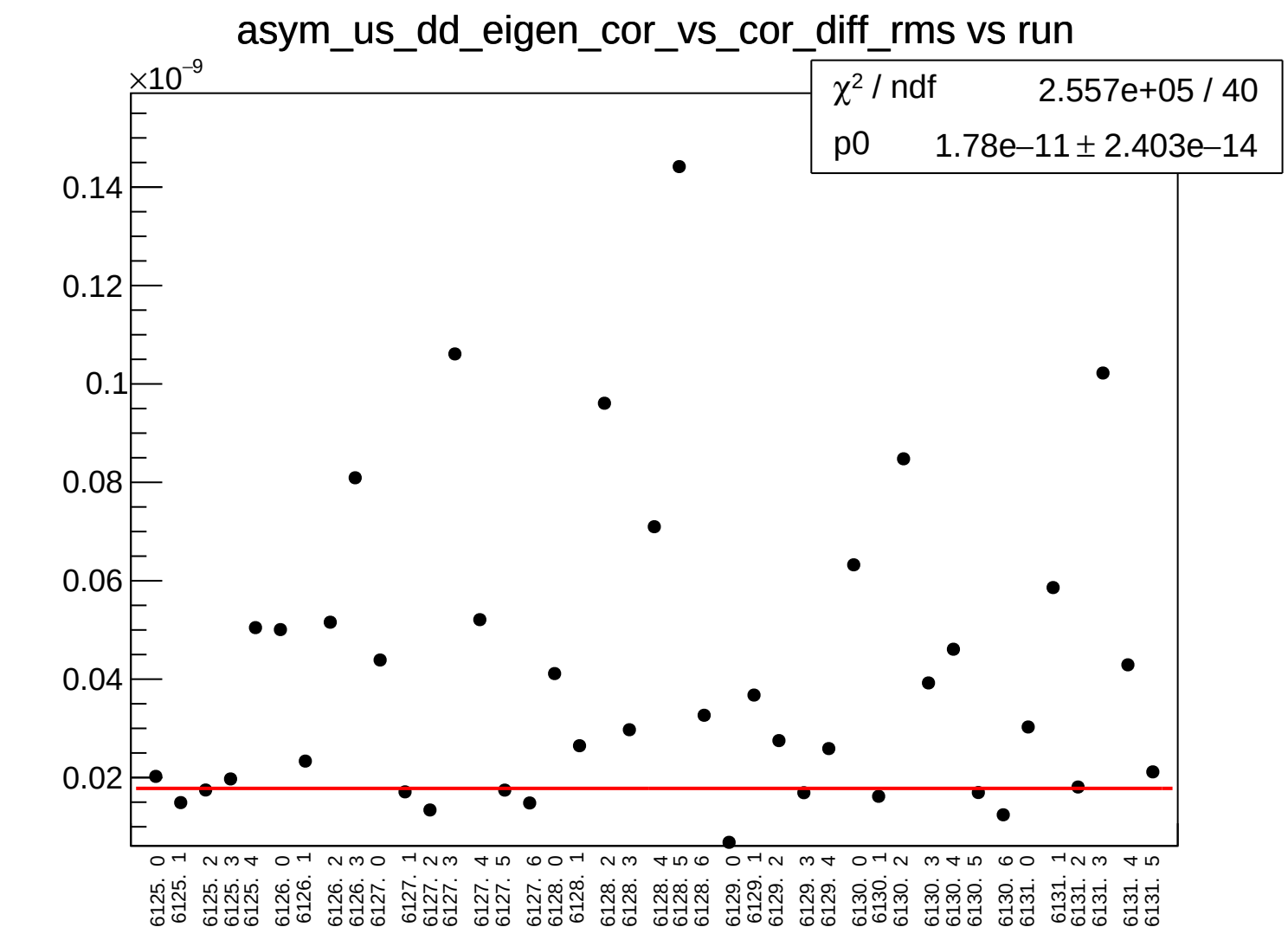

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.233e+05 / 40
p0 20.17 ± 0.02444
50
40
30
20
10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

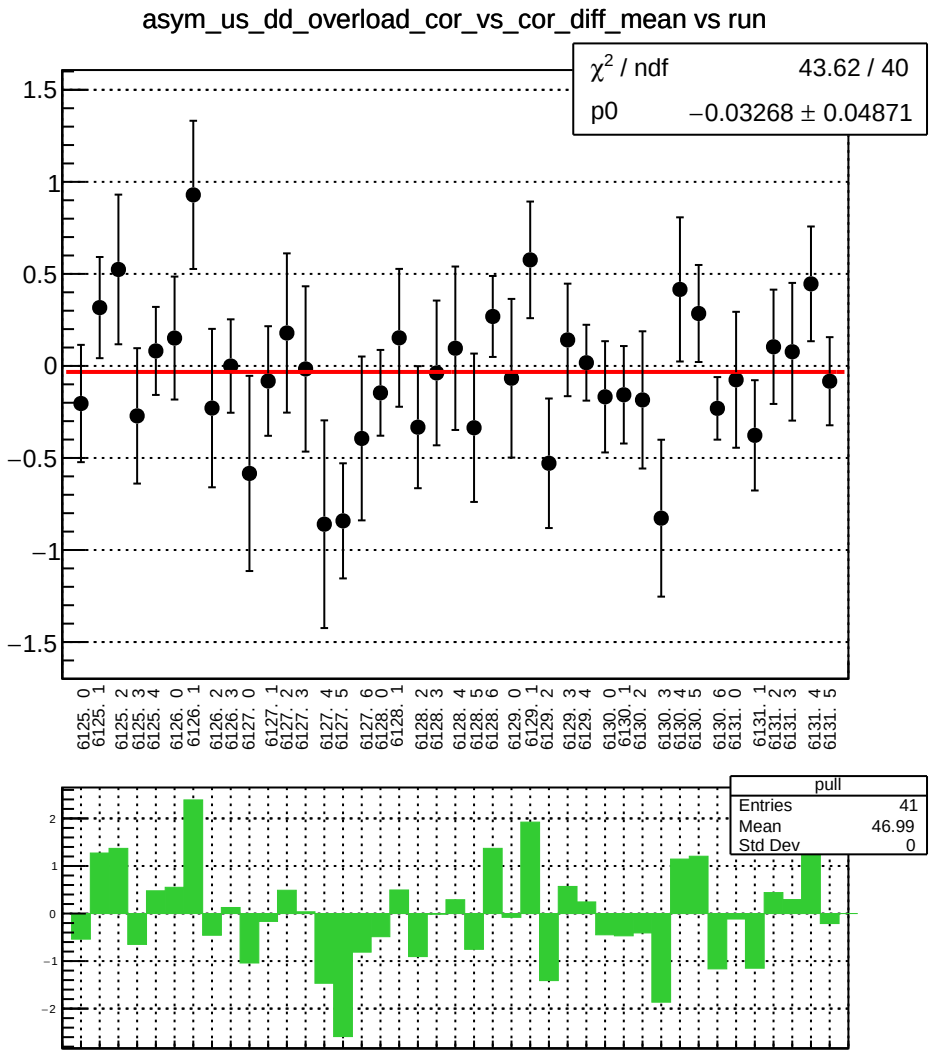

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 27.86 / 40
p0 0.08094 ± 0.06404
pull
Entries 41
Mean 21.37
Std Dev 0
pull1D
Entries 41
Mean 0.04809
Std Dev 0.823

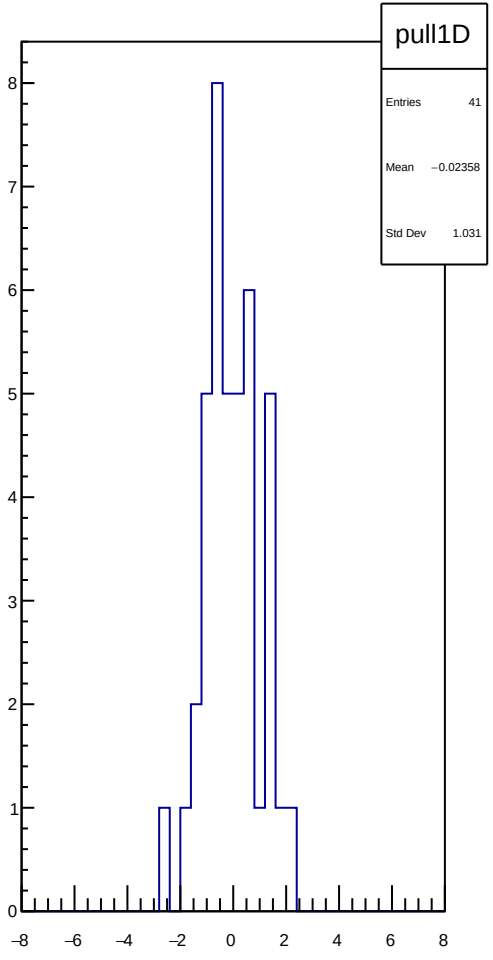

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.323e+04 / 40
p0 39.76 ± 0.04528
65
60
55
50
45
40
35
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

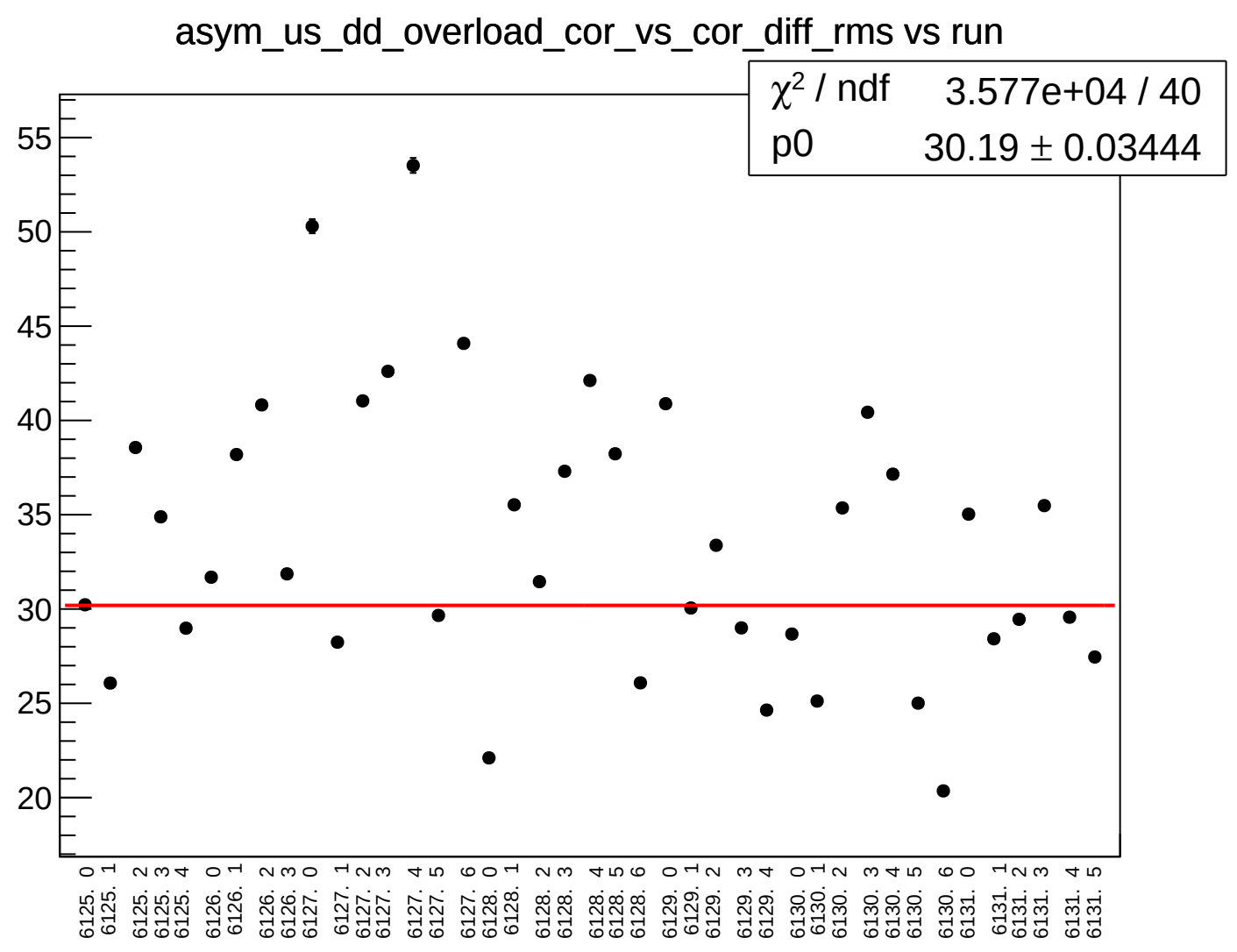

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 33.24 / 40
p0 1.886e−14 ± 3.399e−14
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −10.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

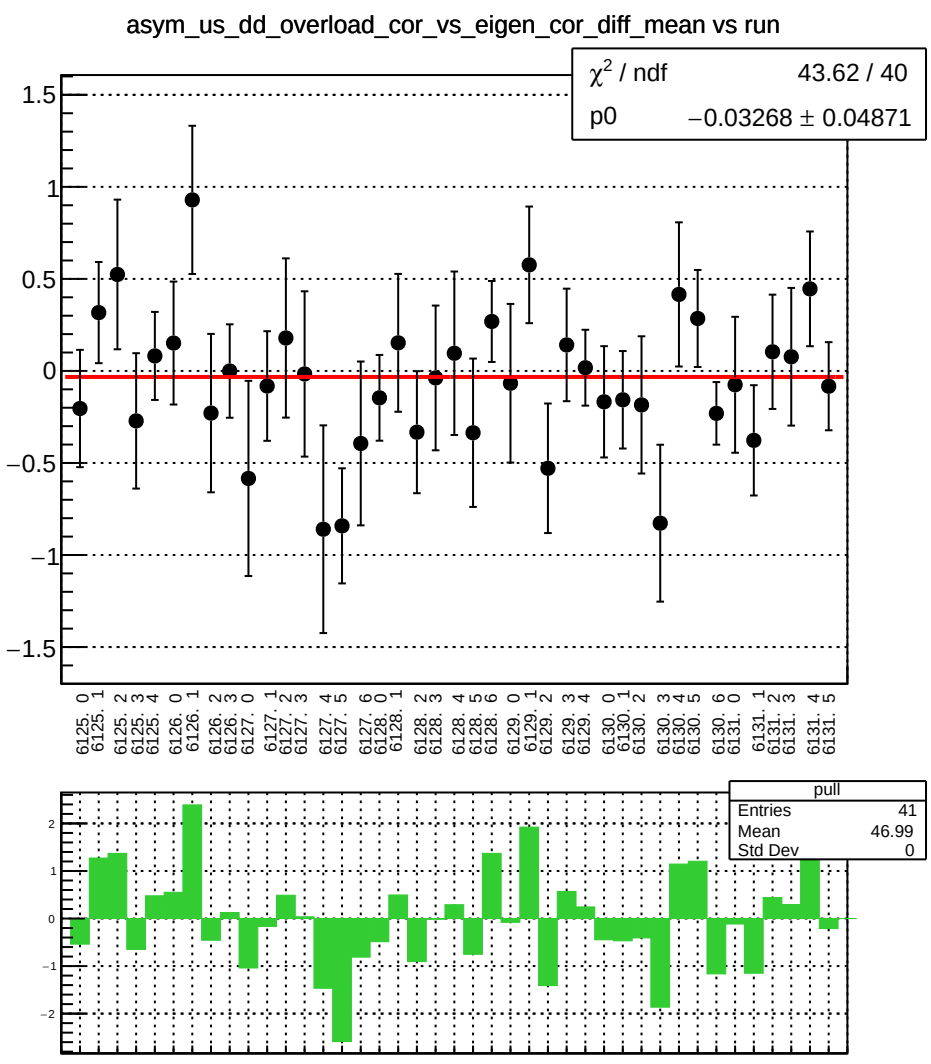

pull1D
Entries 41
Mean 0.1118
Std Dev 0.8935
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

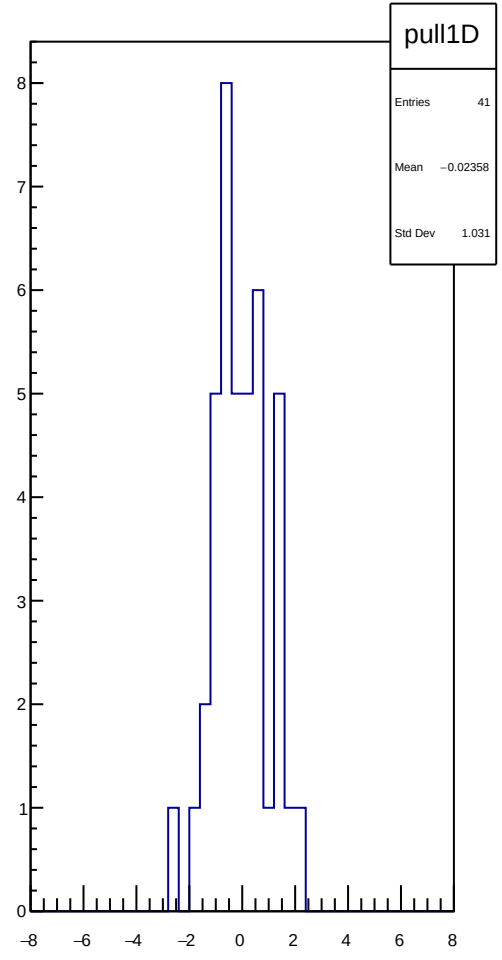

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.557e+05 / 40
p0 1.78e−11 ± 2.403e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

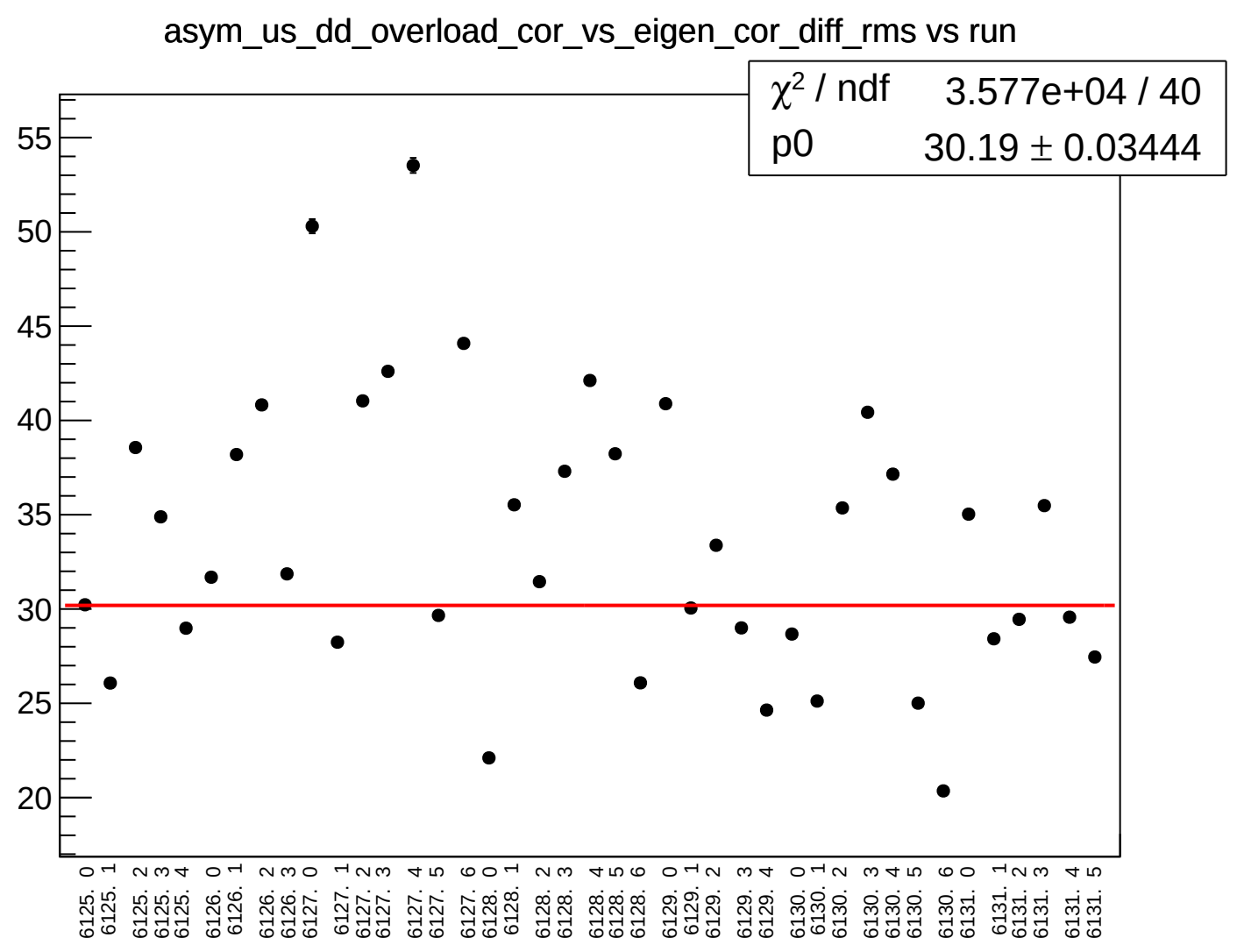

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 43.62 / 40
p0 −0.03268 ± 0.04871
pull
Entries 41
Mean 46.99
Std Dev 0

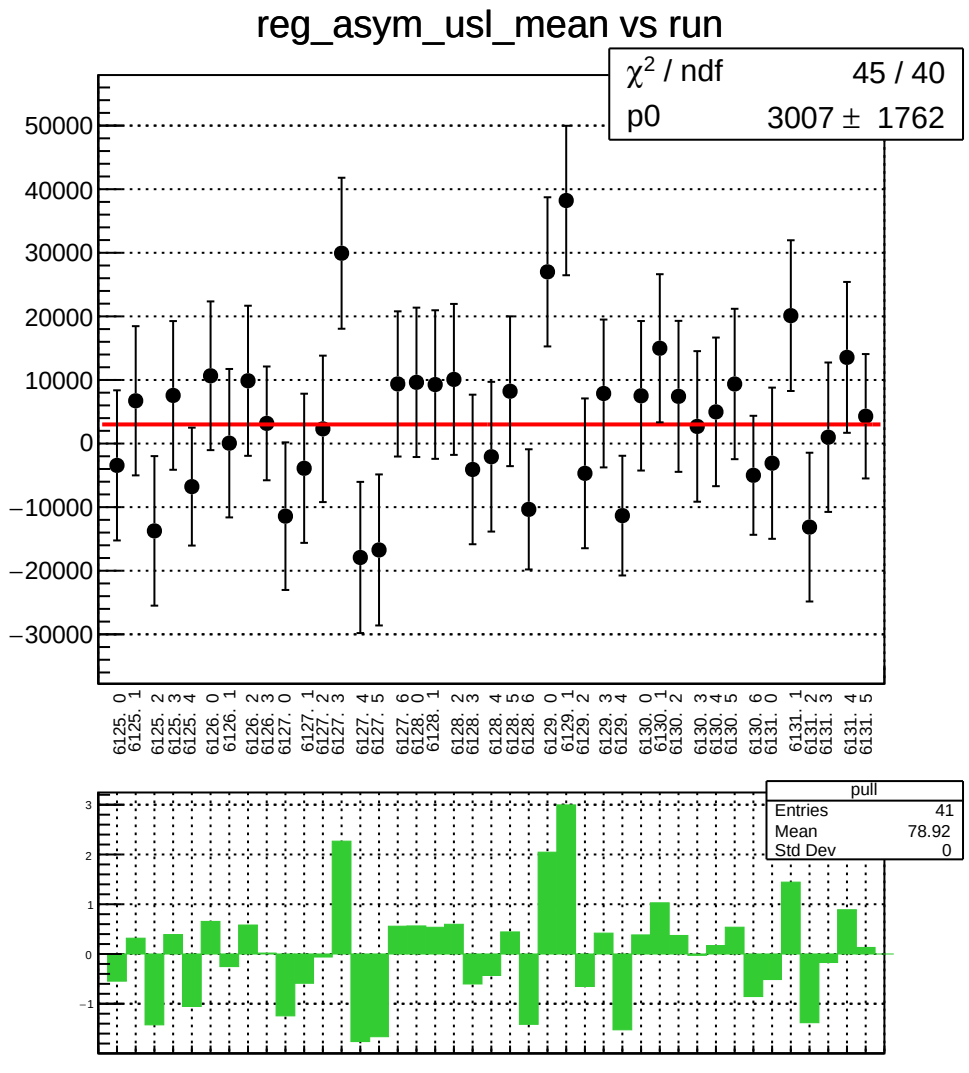

pull1D
Entries 41
Mean −0.02358
Std Dev 1.031

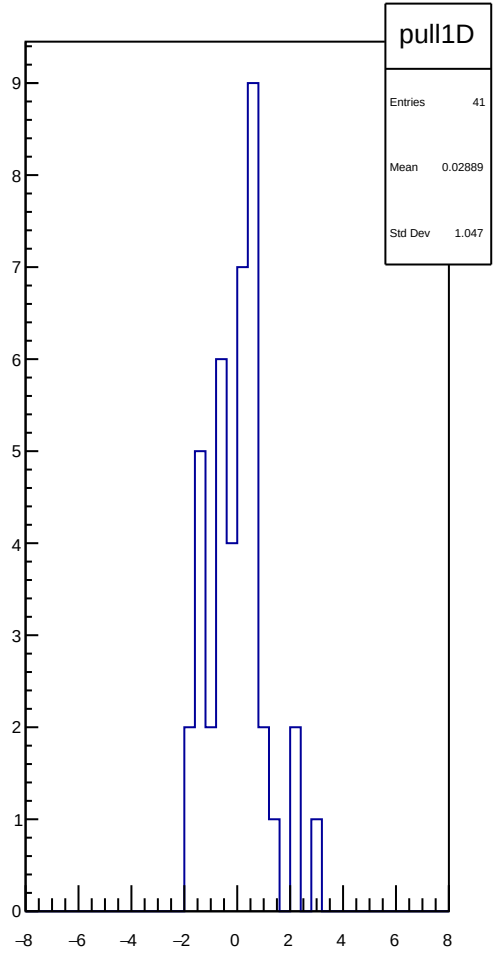

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 3.577e+04 / 40
p0 30.19 ± 0.03444
55
50
45
40
35
30
25
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

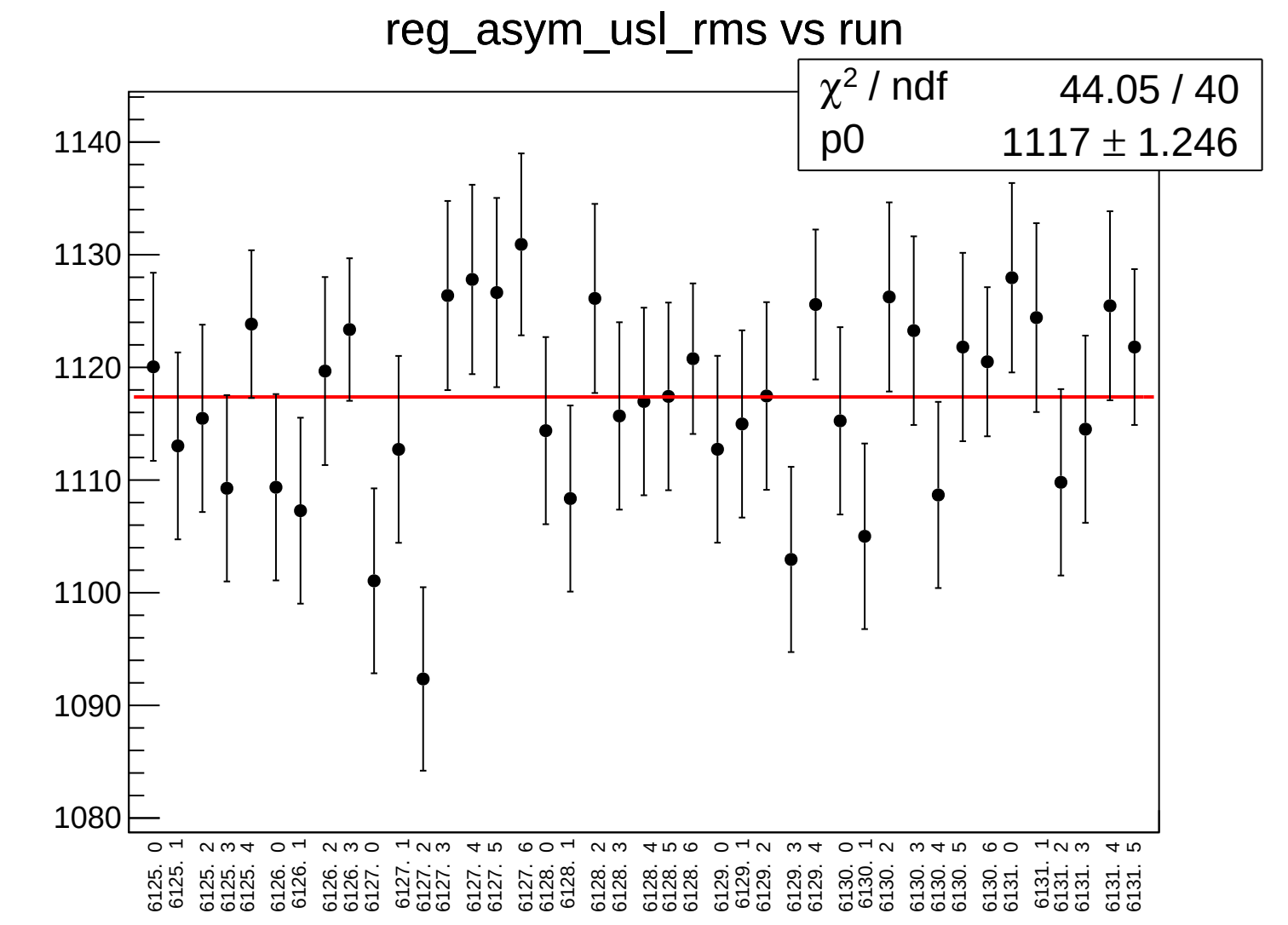

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.62 / 40
p0 −0.03268 ± 0.04871
1.5
1
0.5
0
−0.5
−1
−1.5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 46.99
Std Dev 0
2
1
0
−1
−2

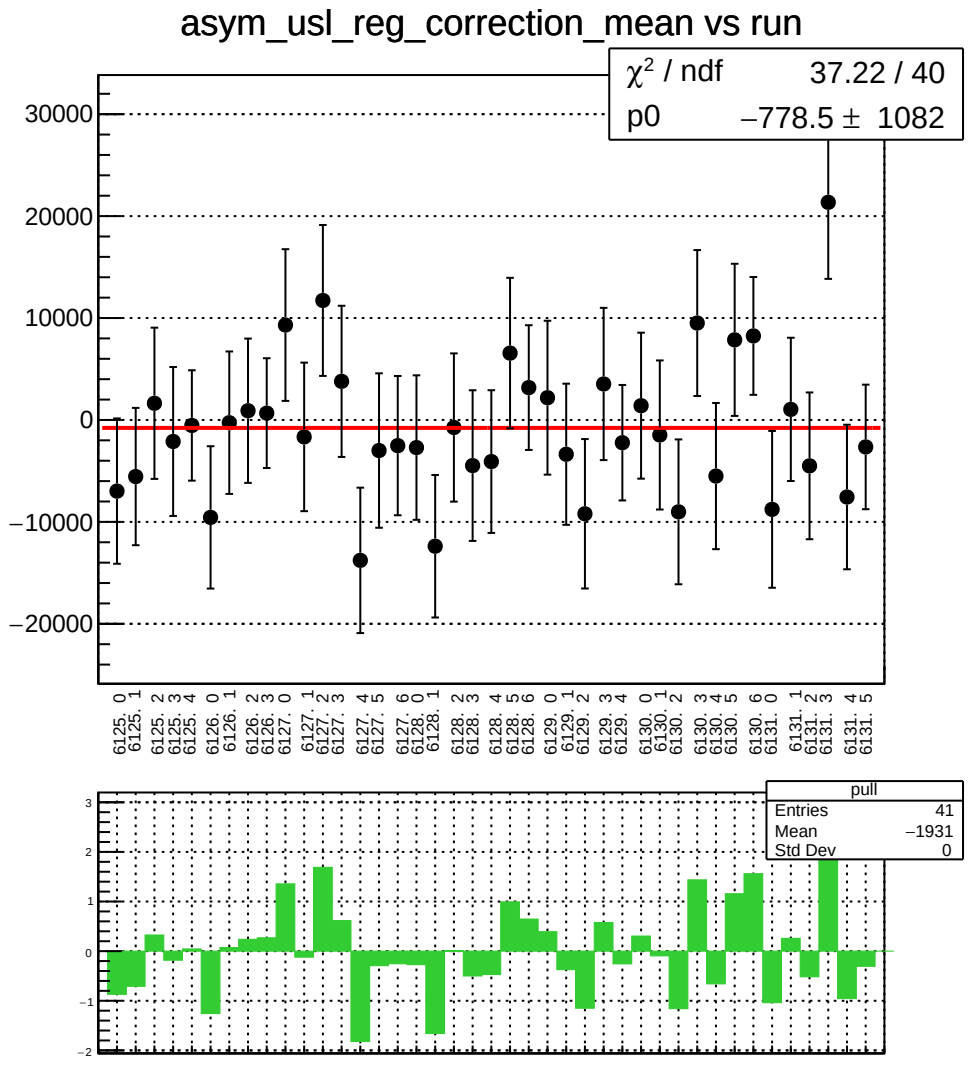

pull1D
Entries 41
Mean −0.02358
Std Dev 1.031
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

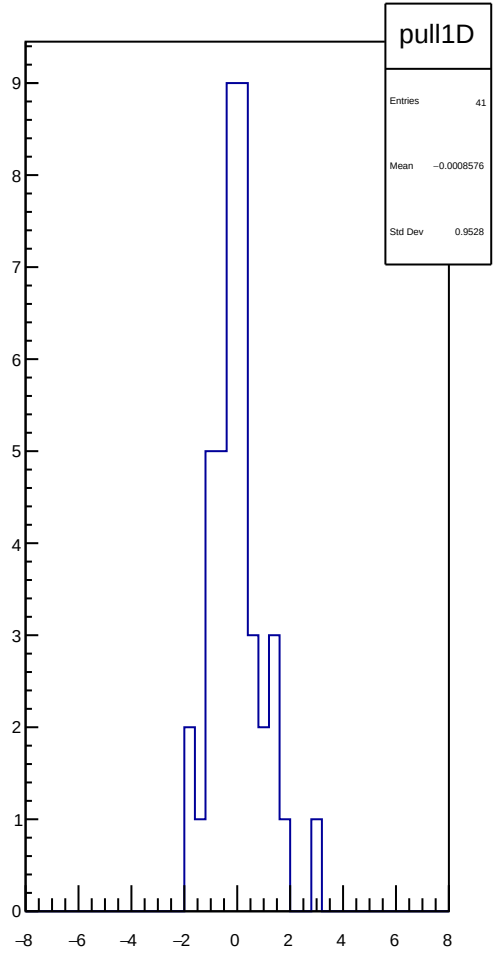

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.577e+04 / 40
p0 30.19 ± 0.03444
55
50
45
40
35
30
25
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

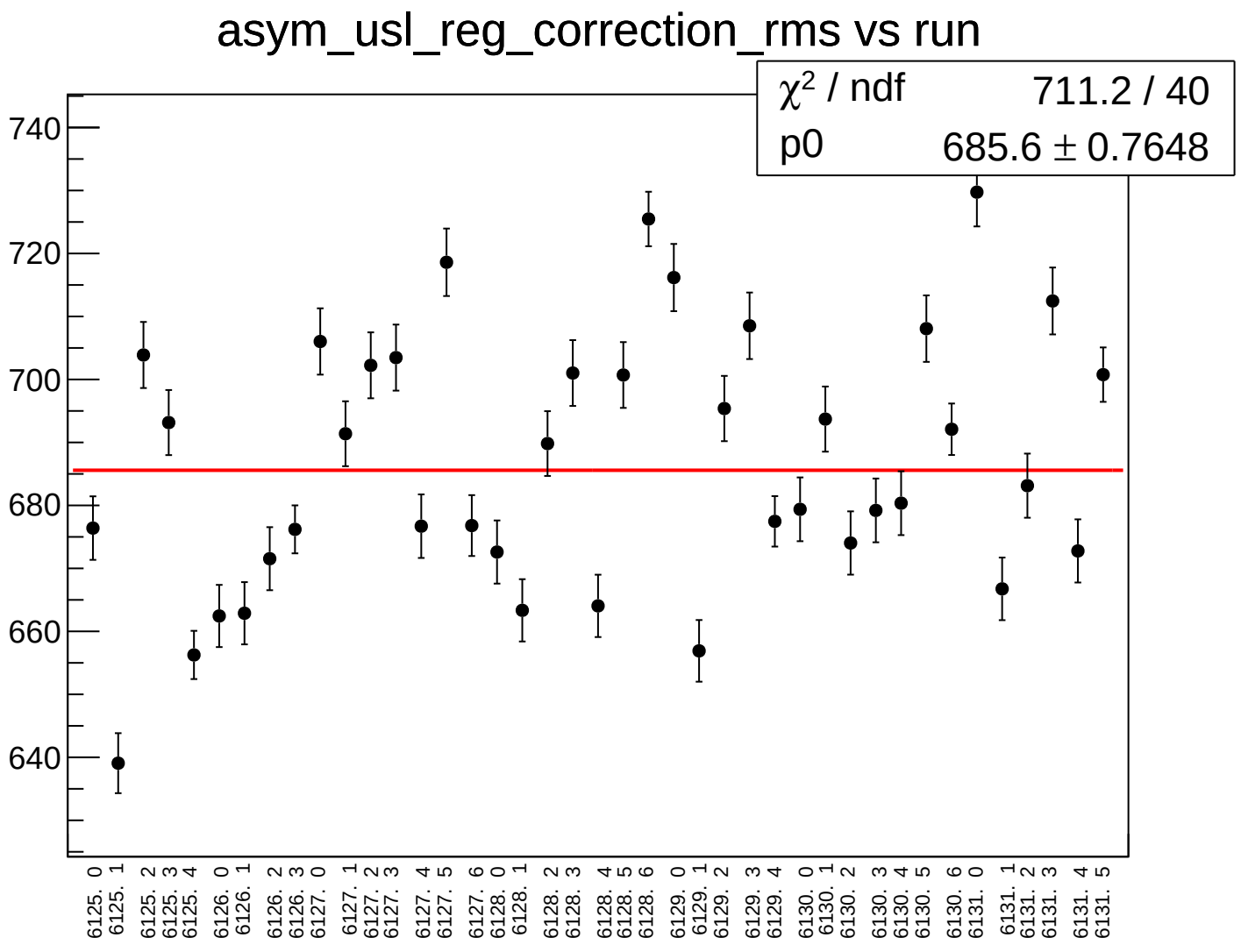

reg_asym_usl_mean vs run
χ² / ndf 45 / 40
p0 3007 ± 1762
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 78.92
Std Dev 0
3
2
1
0
−1

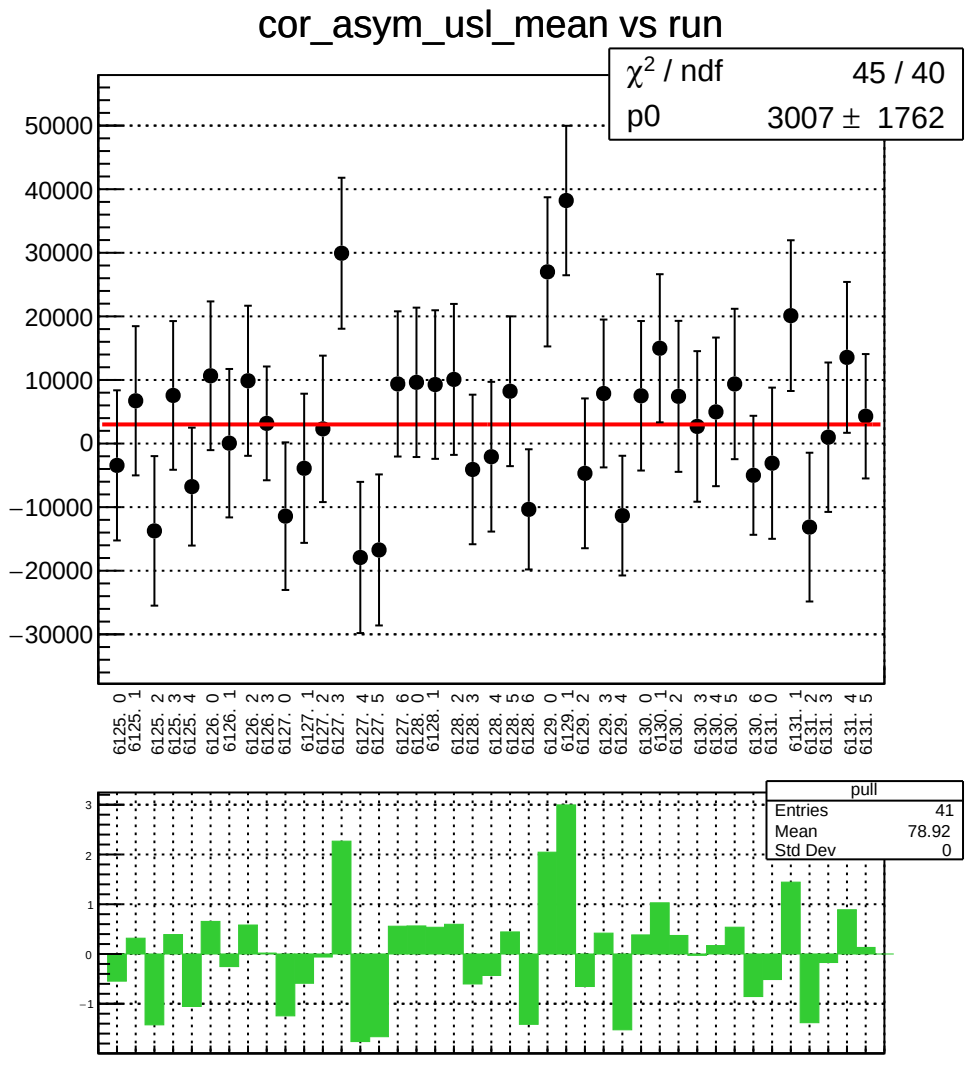

pull1D
Entries 41
Mean 0.02889
Std Dev 1.047
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

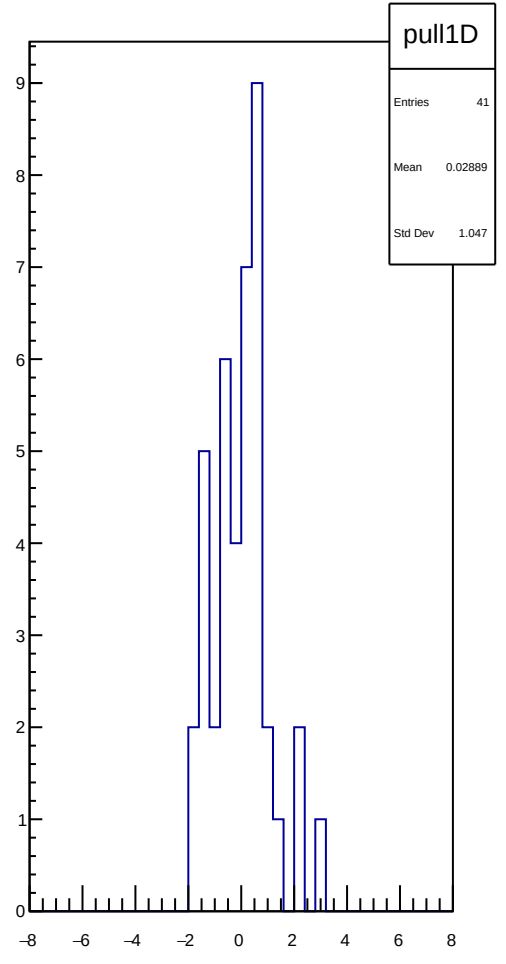

reg_asym_usl_rms vs run
χ² / ndf 44.05 / 40
p0 1117 ± 1.246
1140
1130
1120
1110
1100
1090
1080
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

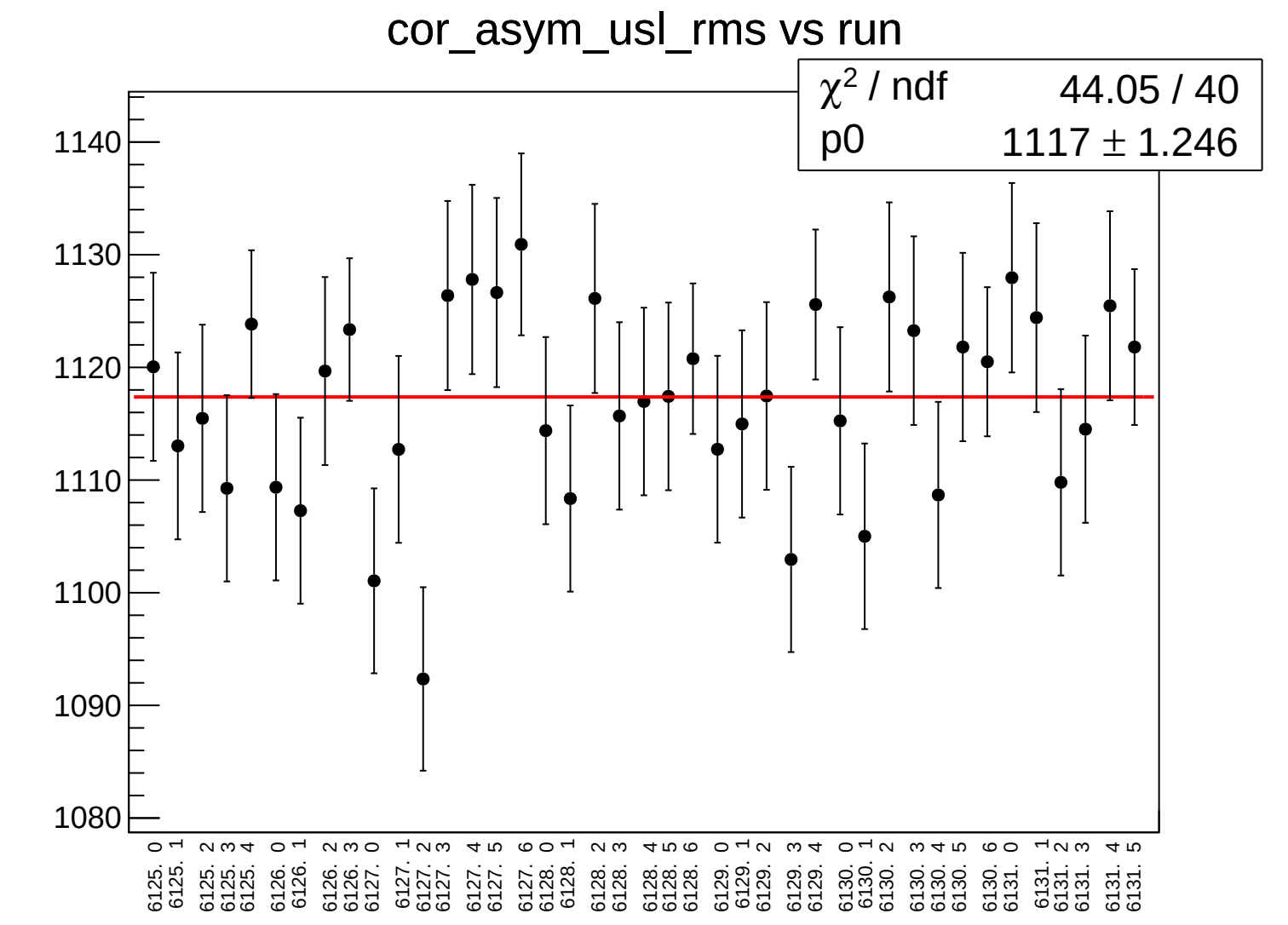

asym_usl_reg_correction_mean vs run
χ² / ndf 37.22 / 40
p0 −778.5 ± 1082
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1931
Std Dev 0
3
2
1
0
−1
−2

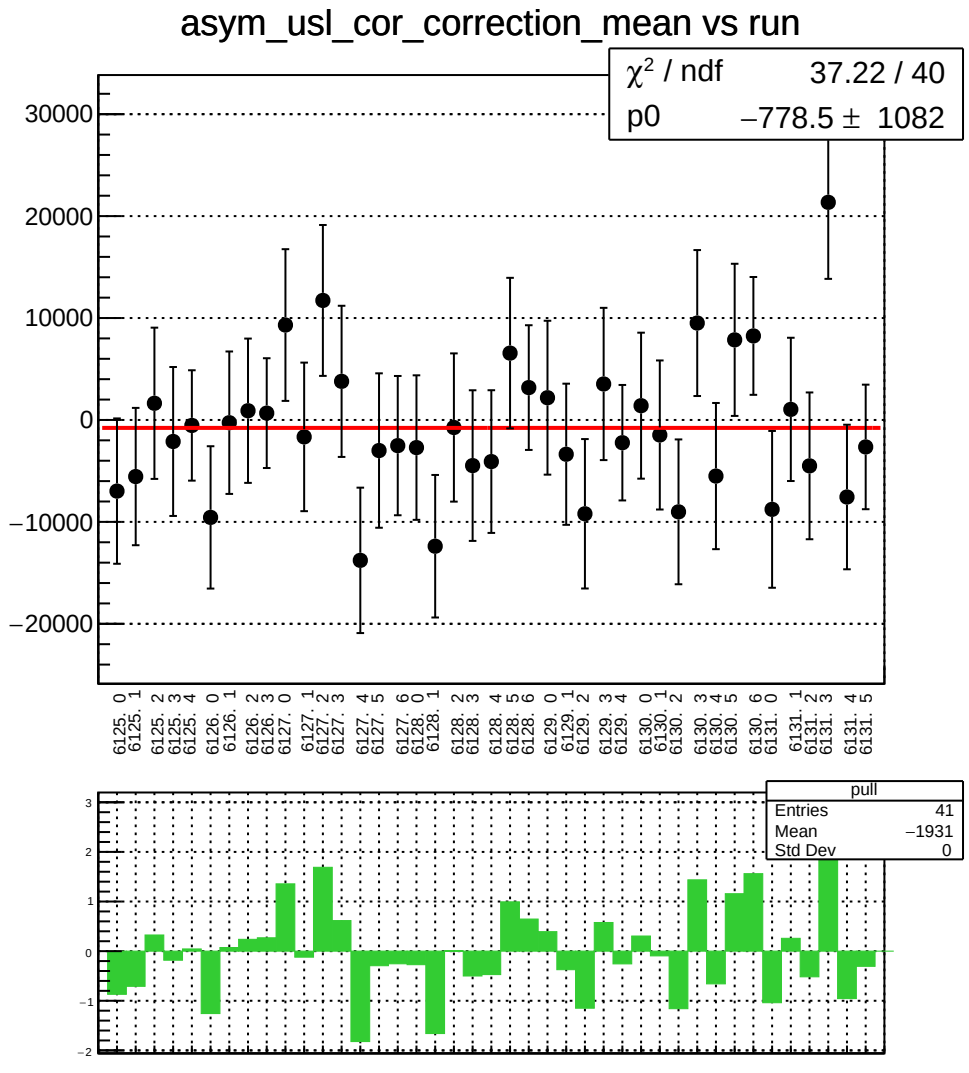

pull1D
Entries 41
Mean −0.0008576
Std Dev 0.9528
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

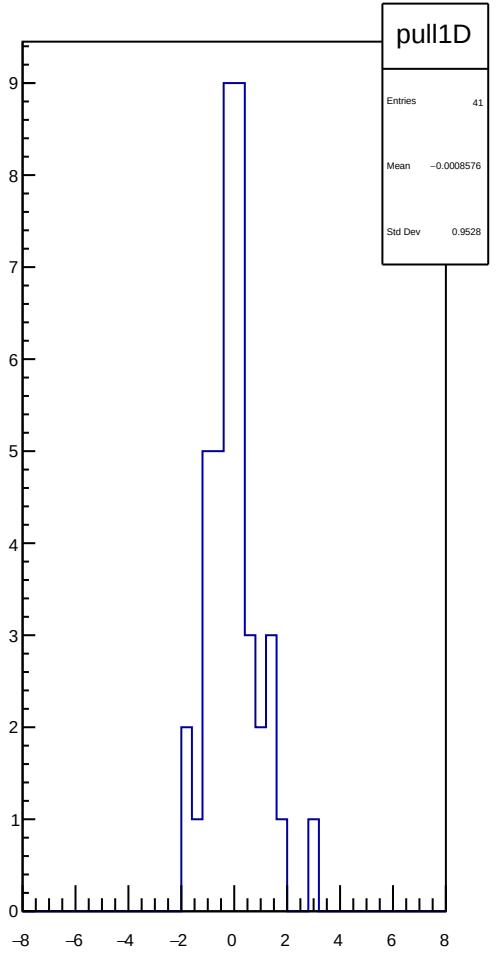

asym_usl_reg_correction_rms vs run
χ² / ndf 711.2 / 40
p0 685.6 ± 0.7648
740
720
700
680
660
640
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

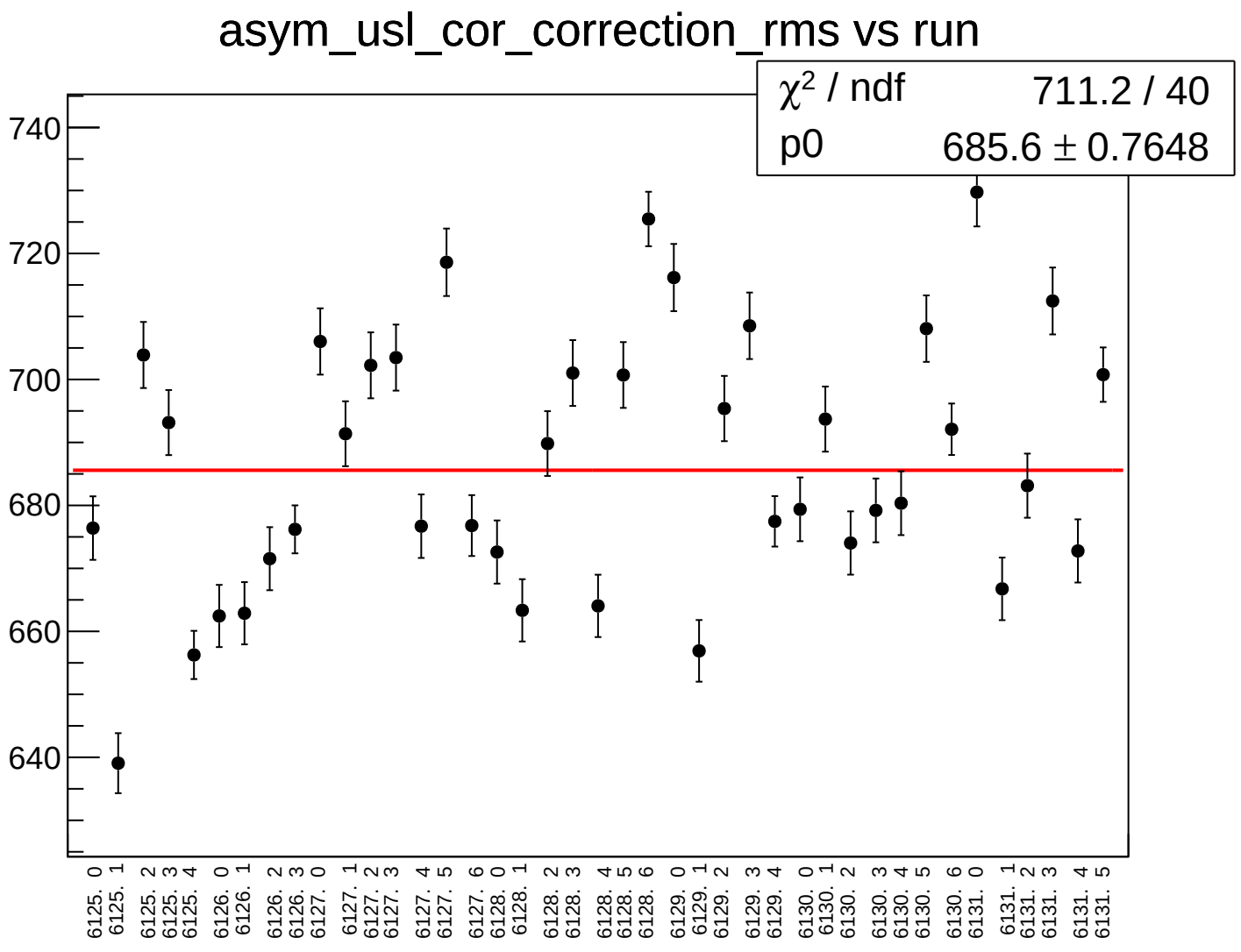

cor_asym_usl_mean vs run
χ² / ndf 45 / 40
p0 3007 ± 1762
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 78.92
Std Dev 0
3
2
1
0
−1

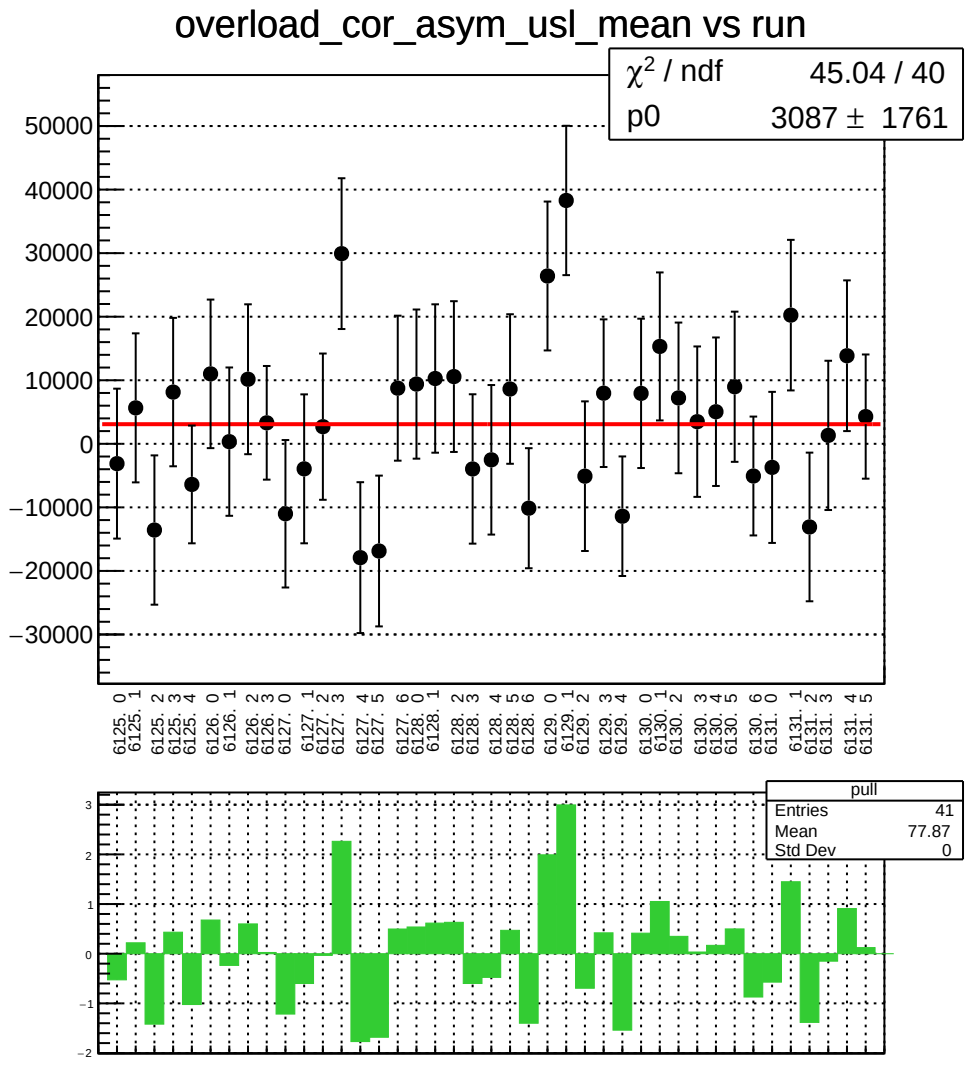

pull1D
Entries 41
Mean 0.02889
Std Dev 1.047
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

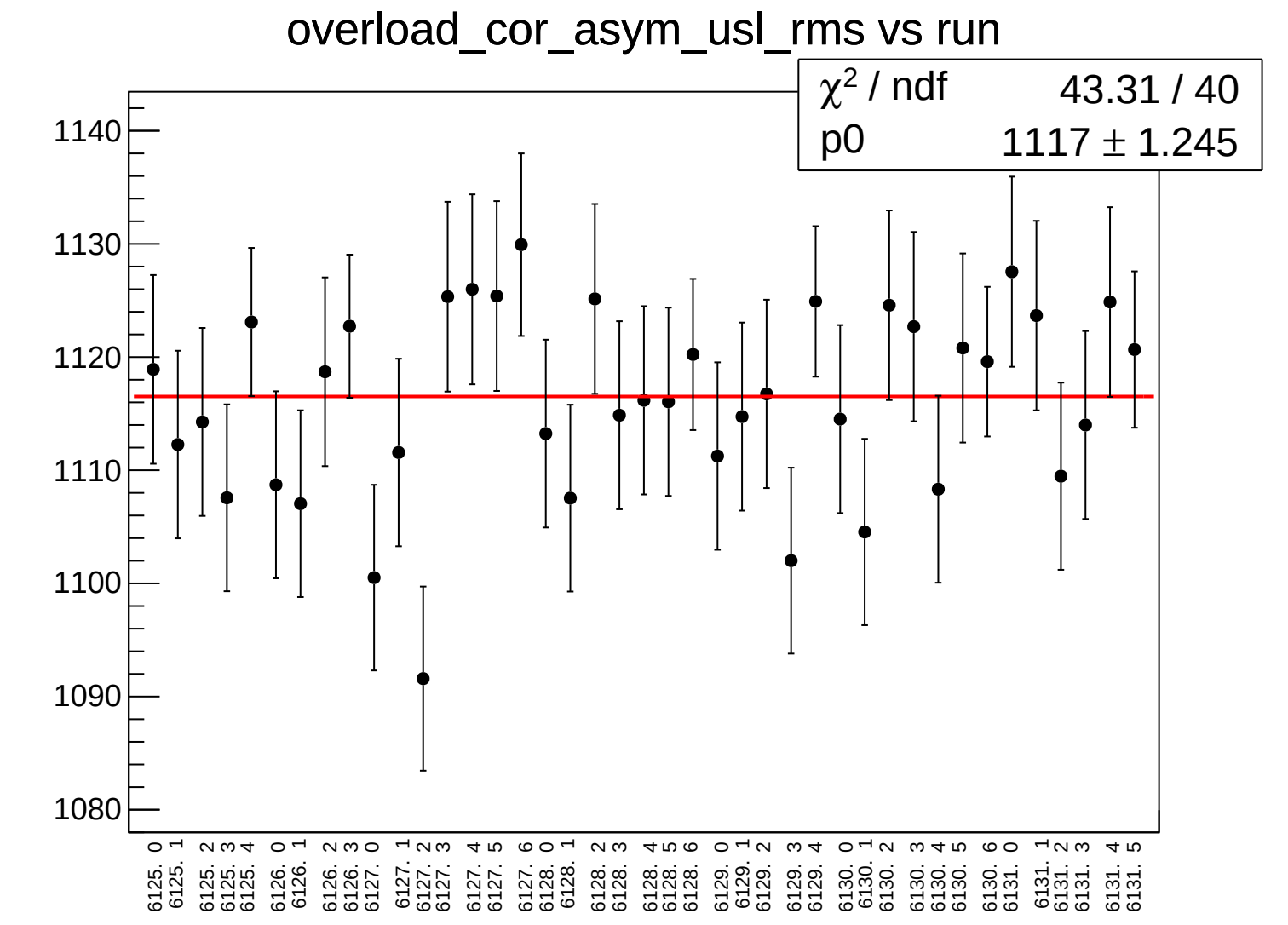

cor_asym_usl_rms vs run
χ² / ndf 44.05 / 40
p0 1117 ± 1.246
1140
1130
1120
1110
1100
1090
1080
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

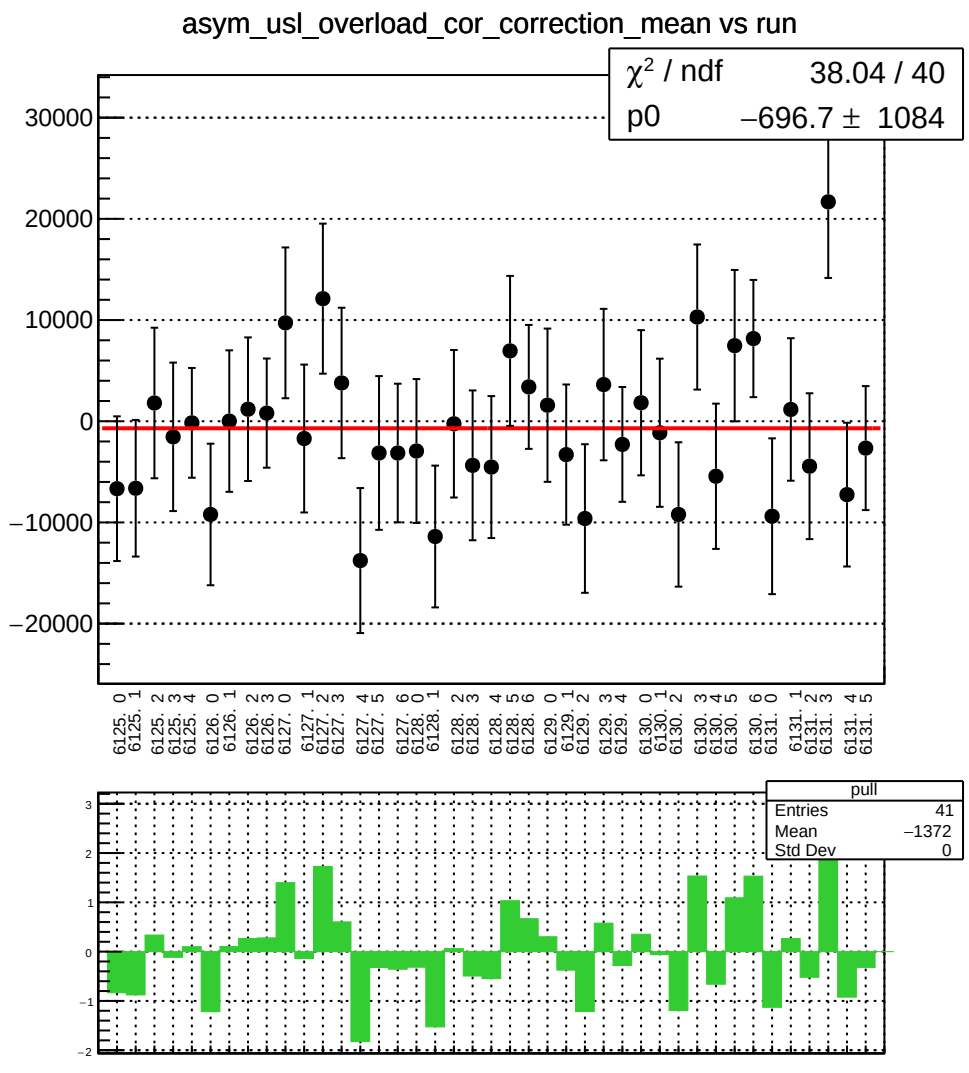

asym_usl_cor_correction_mean vs run
χ² / ndf 37.22 / 40
p0 −778.5 ± 1082
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1931
Std Dev 0
3
2
1
0
−1
−2

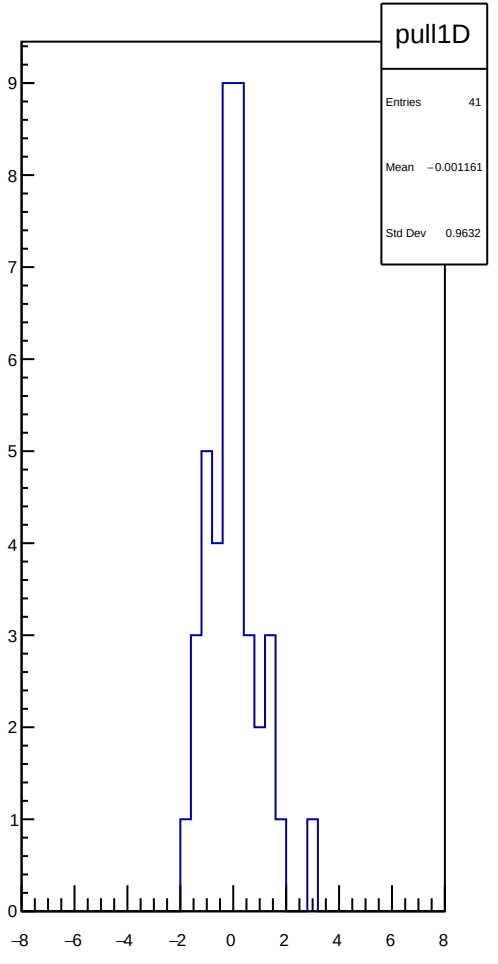

pull1D
Entries 41
Mean −0.0008576
Std Dev 0.9528
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

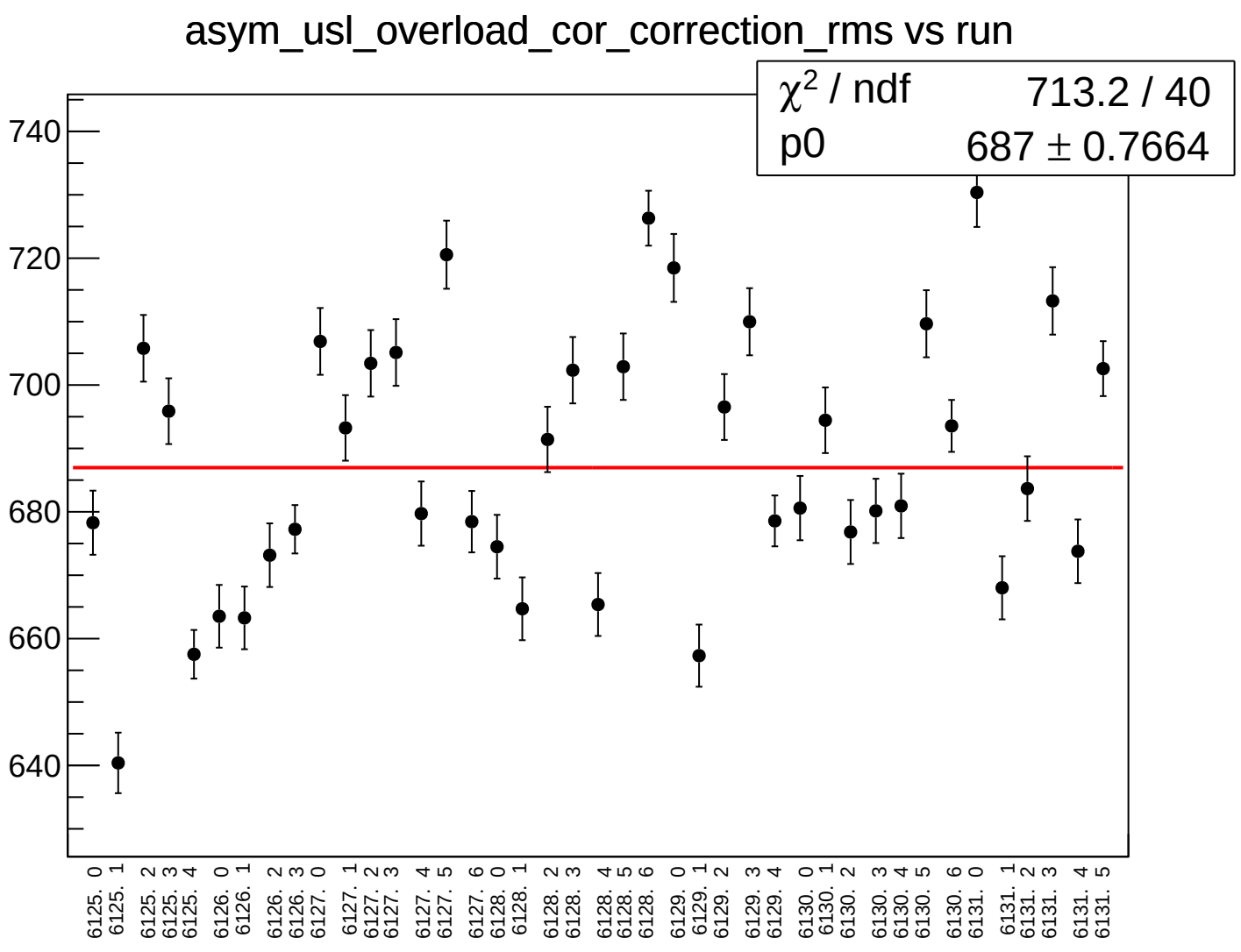

asym_usl_cor_correction_rms vs run
χ² / ndf 711.2 / 40
p0 685.6 ± 0.7648
740
720
700
680
660
640
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

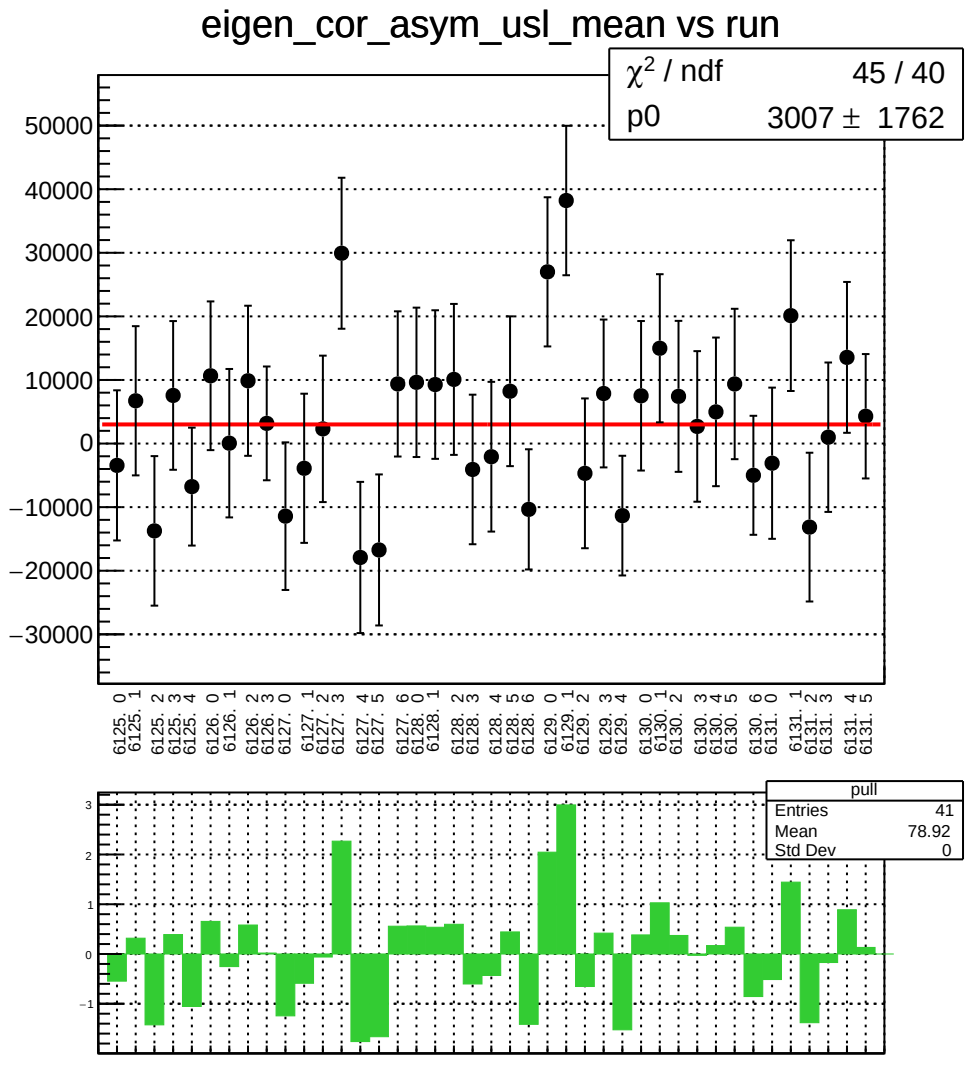

overload_cor_asym_usl_mean vs run
χ² / ndf 45.04 / 40
p0 3087 ± 1761
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 77.87
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.0288
Std Dev 1.048
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

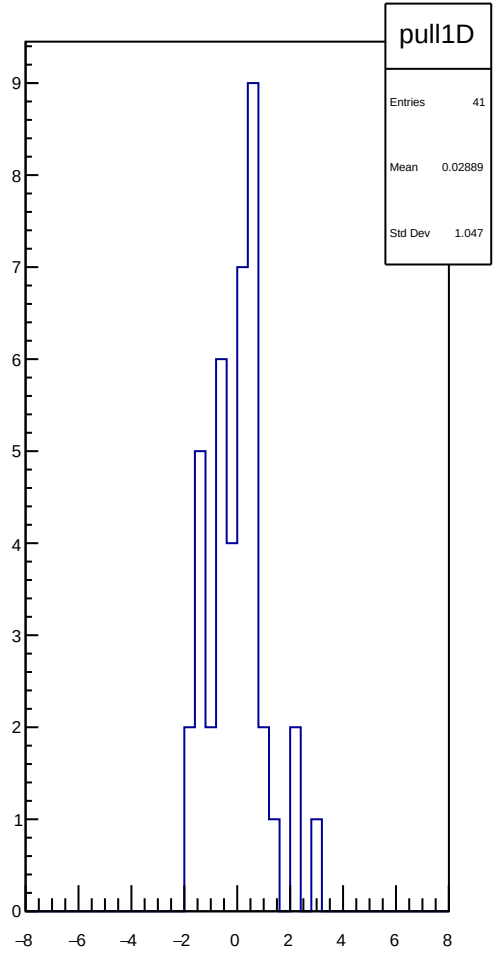

overload_cor_asym_usl_rms vs run
χ² / ndf 43.31 / 40
p0 1117 ± 1.245
1140
1130
1120
1110
1100
1090
1080
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

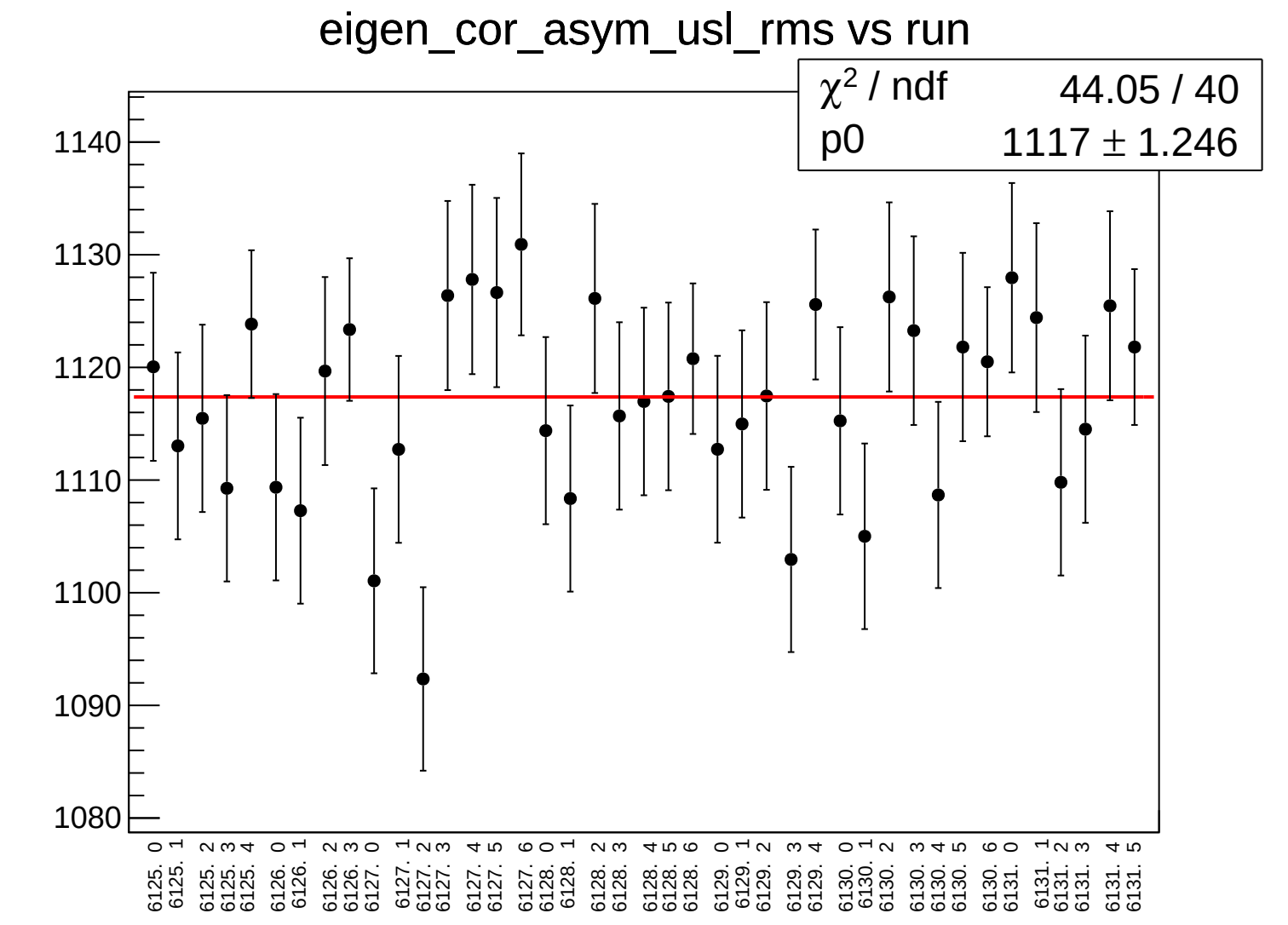

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 38.04 / 40
p0 −696.7 ± 1084
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1372
Std Dev 0
3
2
1
0
−1
−2

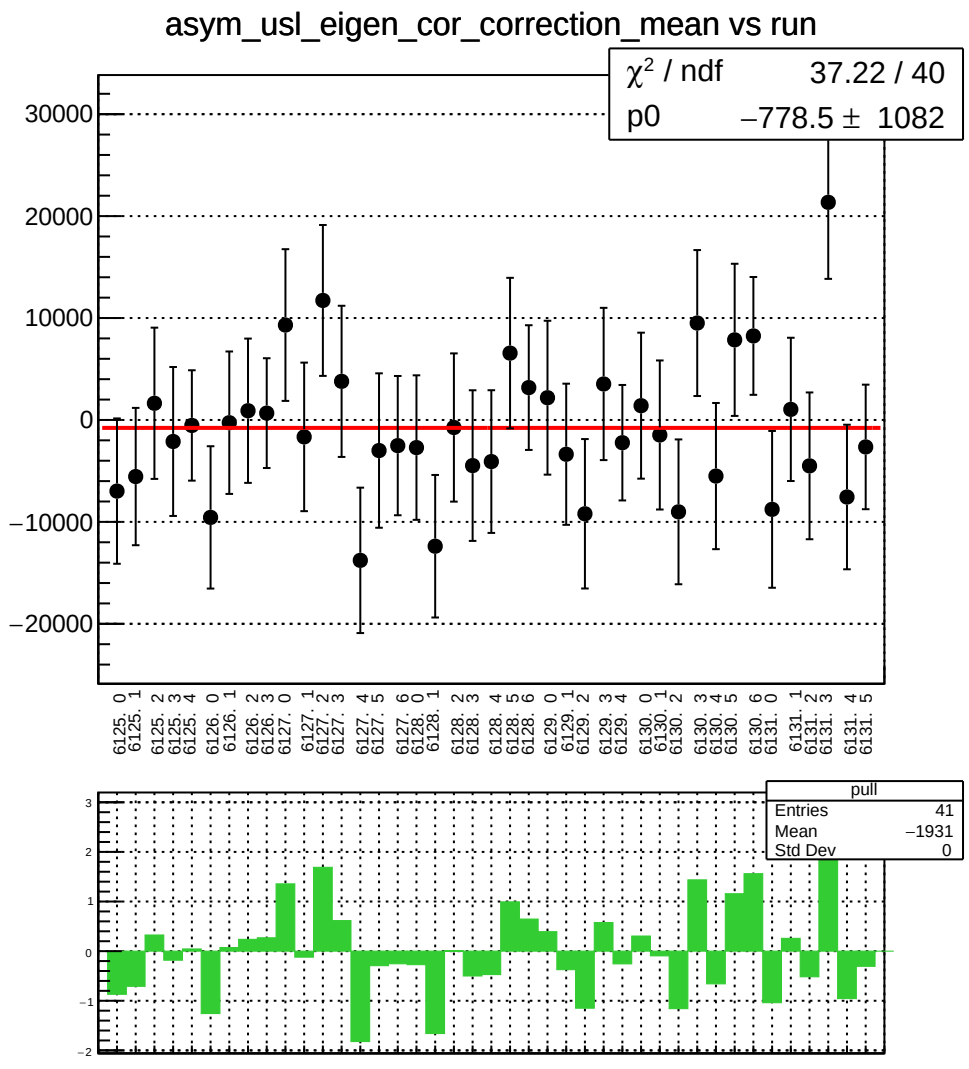

pull1D
Entries 41
Mean −0.001161
Std Dev 0.9632
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

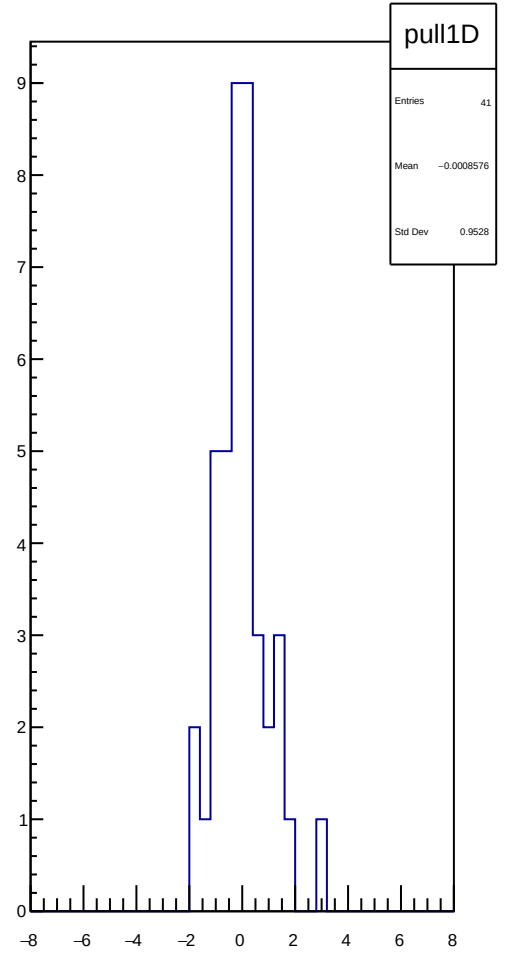

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 713.2 / 40
p0 687 ± 0.7664
740
720
700
680
660
640
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

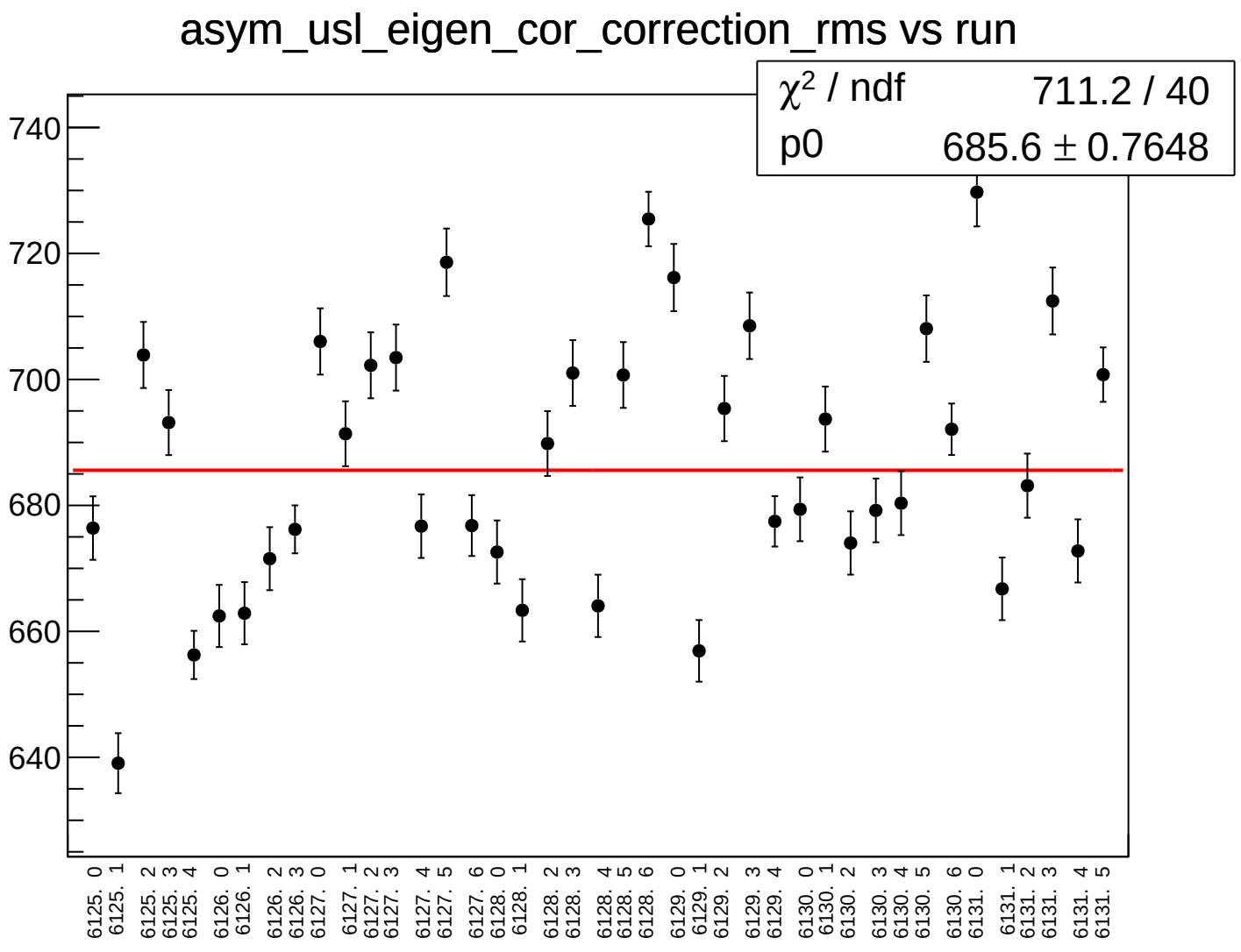

eigen_cor_asym_usl_mean vs run
χ² / ndf 45 / 40
p0 3007 ± 1762
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 78.92
Std Dev 0
3
2
1
0
−1

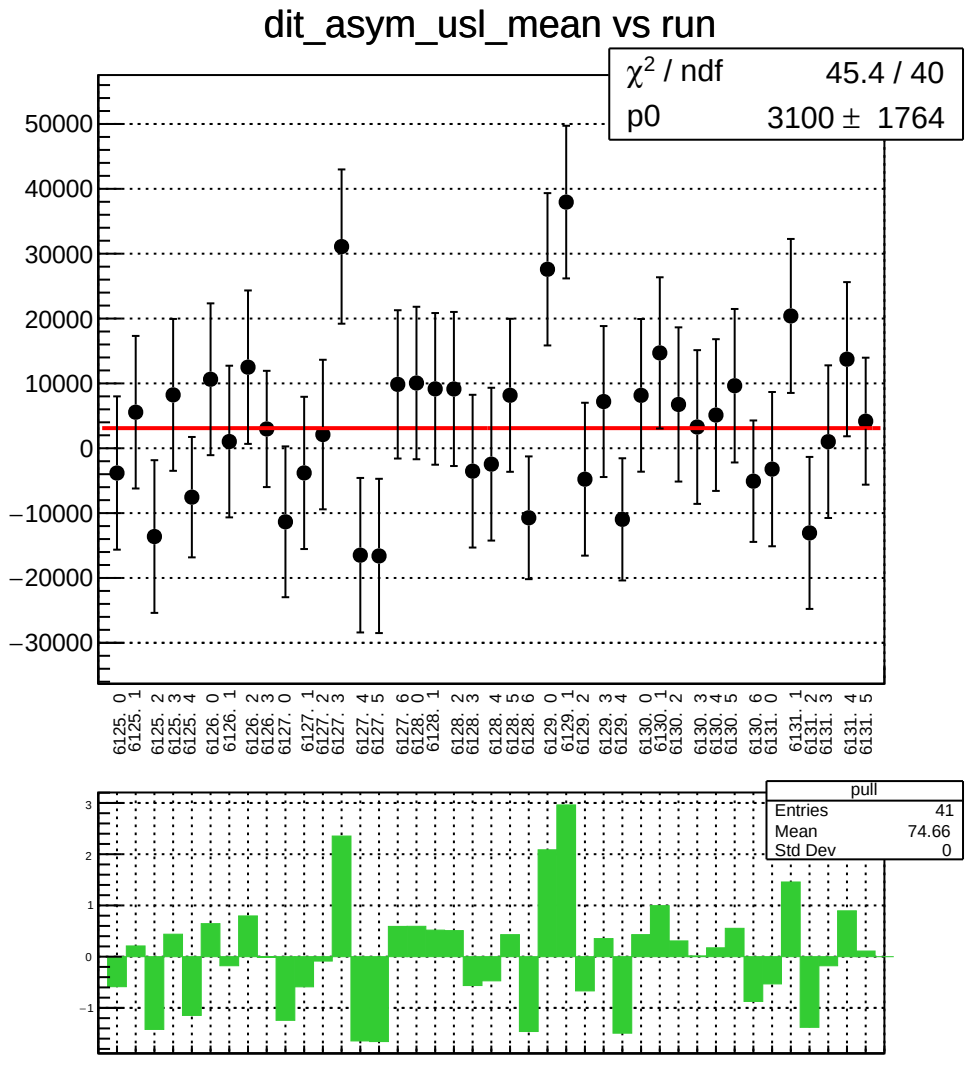

pull1D
Entries 41
Mean 0.02889
Std Dev 1.047
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

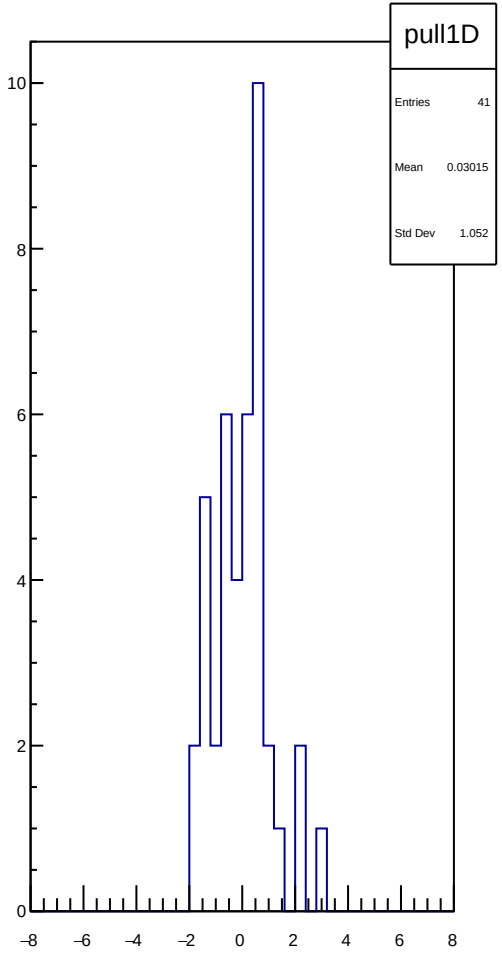

eigen_cor_asym_usl_rms vs run
χ² / ndf 44.05 / 40
p0 1117 ± 1.246
1140
1130
1120
1110
1100
1090
1080
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

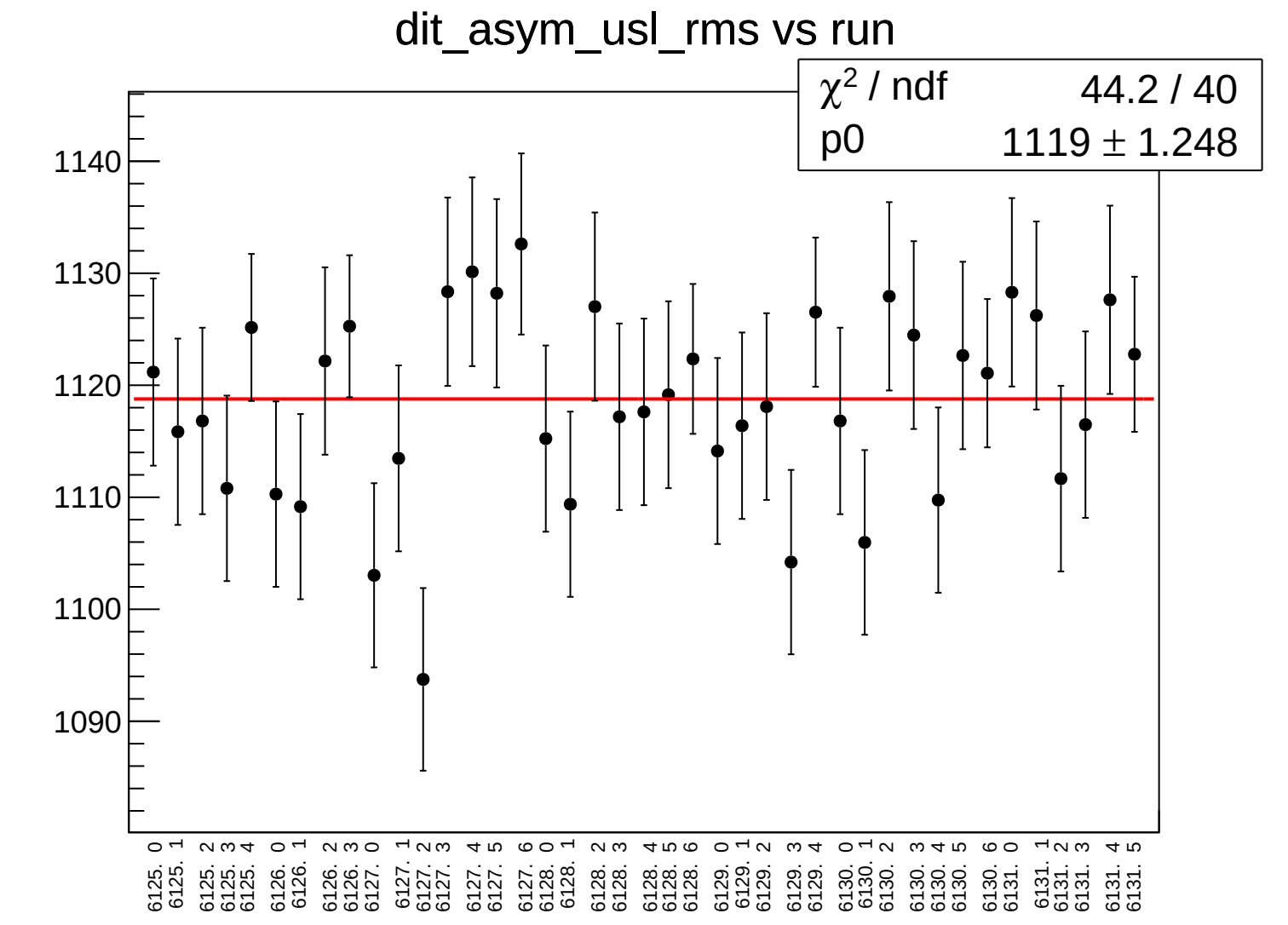

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 37.22 / 40
p0 −778.5 ± 1082
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1931
Std Dev 0
3
2
1
0
−1
−2

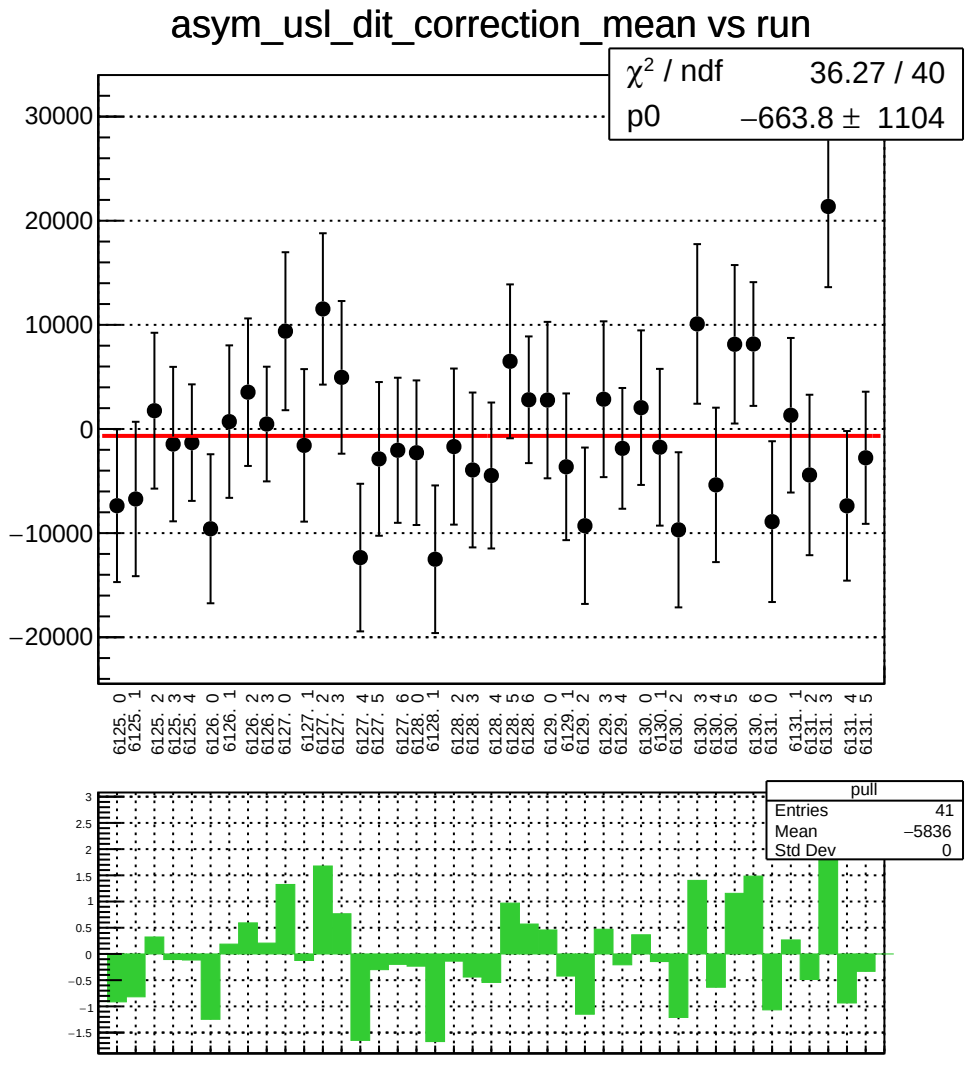

pull1D
Entries 41
Mean −0.0008576
Std Dev 0.9528
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

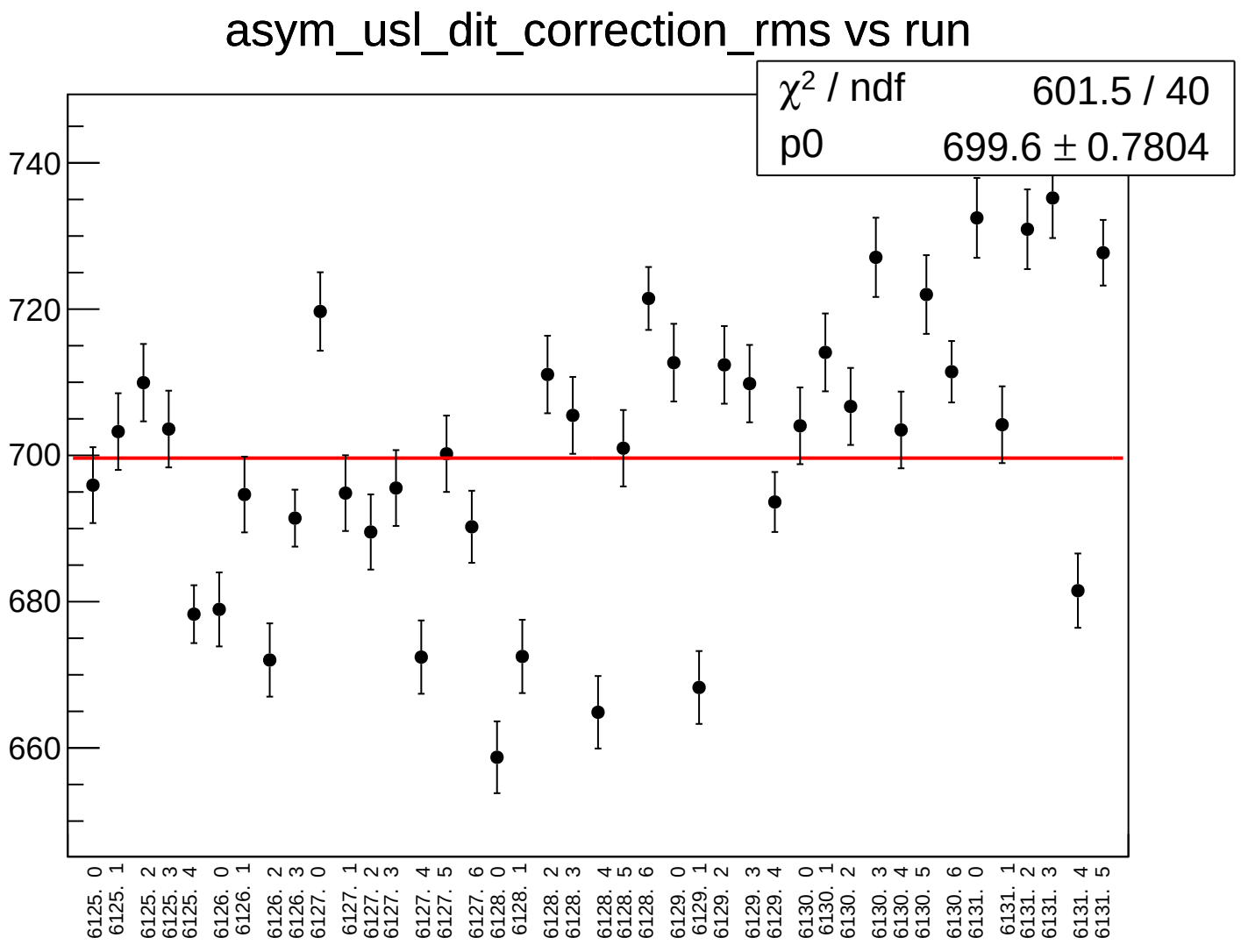

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 711.2 / 40
p0 685.6 ± 0.7648
740
720
700
680
660
640
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

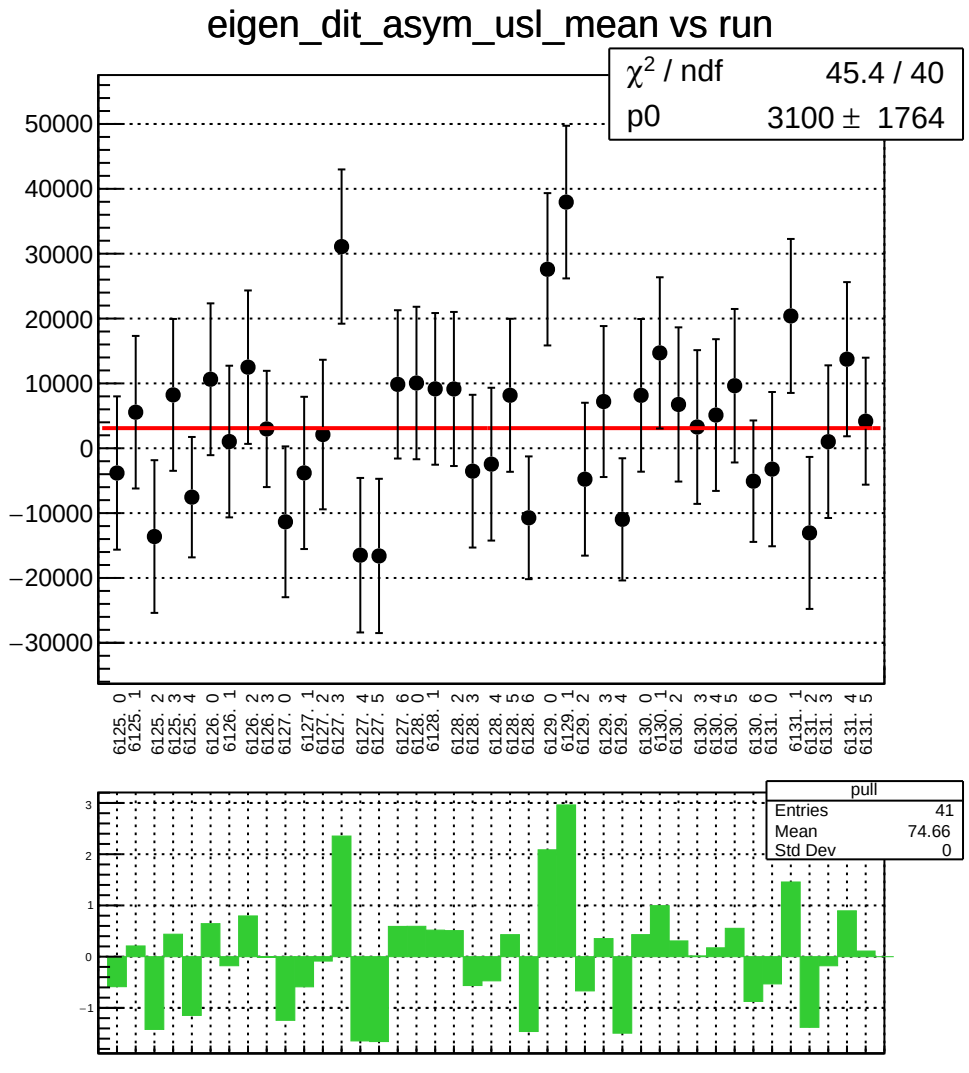

dit_asym_usl_mean vs run
χ² / ndf 45.4 / 40
p0 3100 ± 1764
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 74.66
Std Dev 0
3
2
1
0
−1

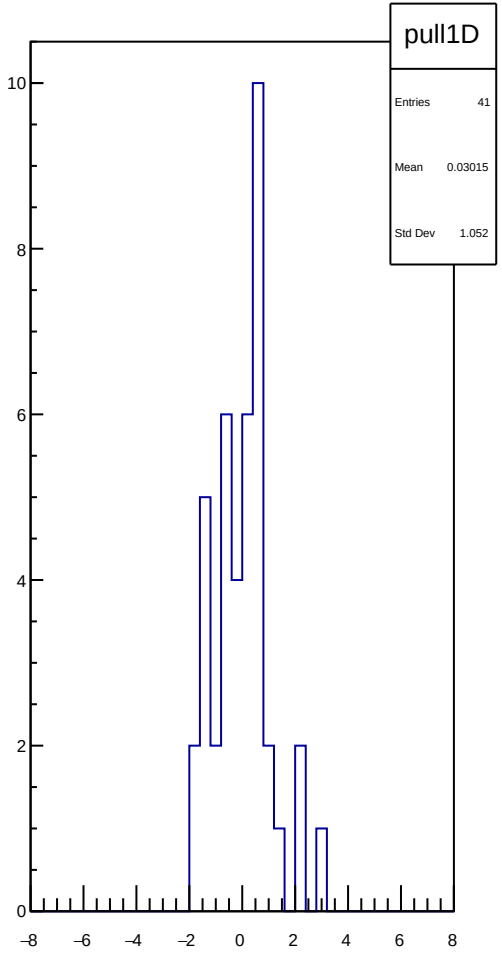

pull1D
Entries 41
Mean 0.03015
Std Dev 1.052
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

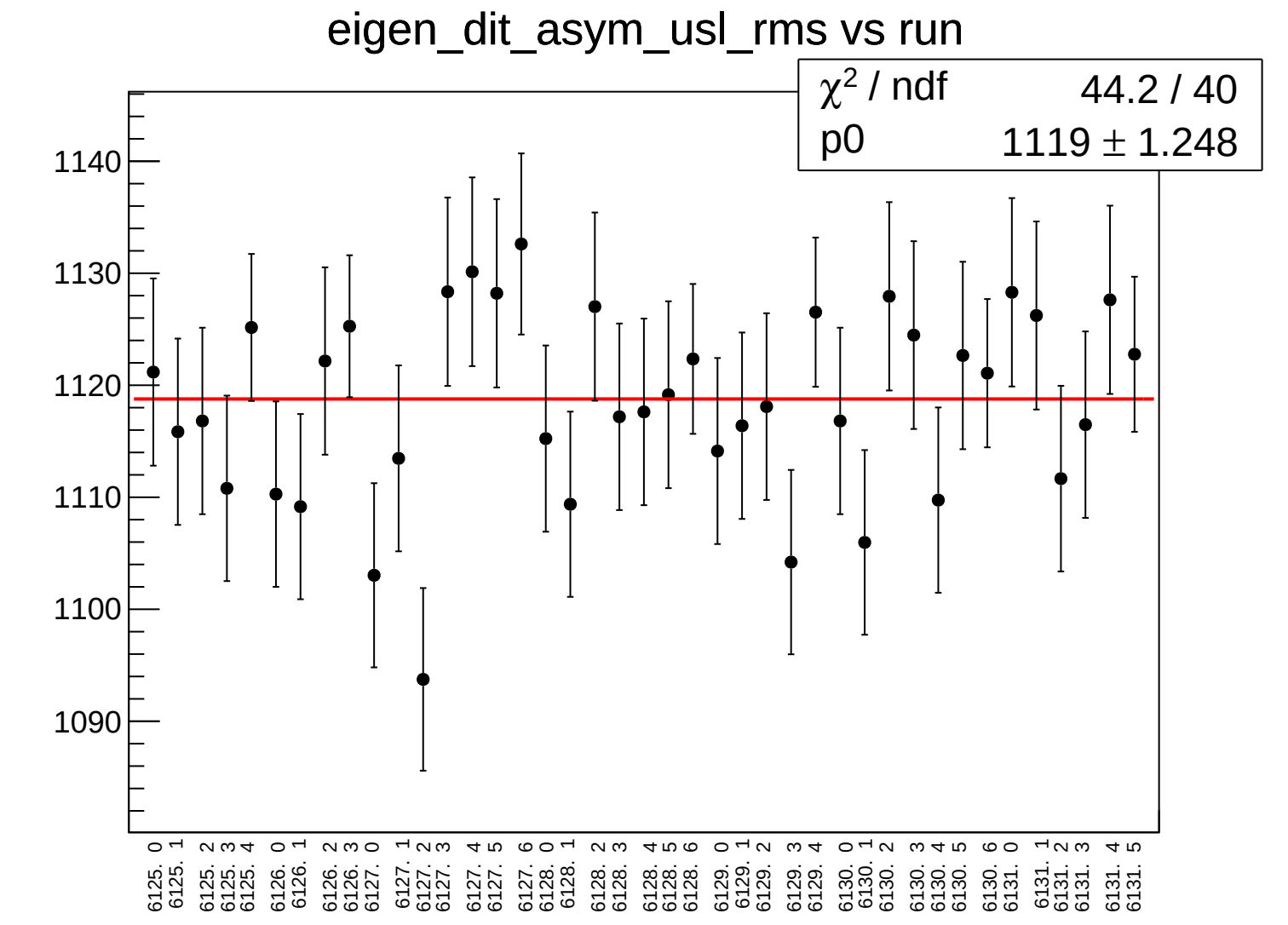

dit_asym_usl_rms vs run
χ² / ndf 44.2 / 40
p0 1119 ± 1.248
1140
1130
1120
1110
1100
1090
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

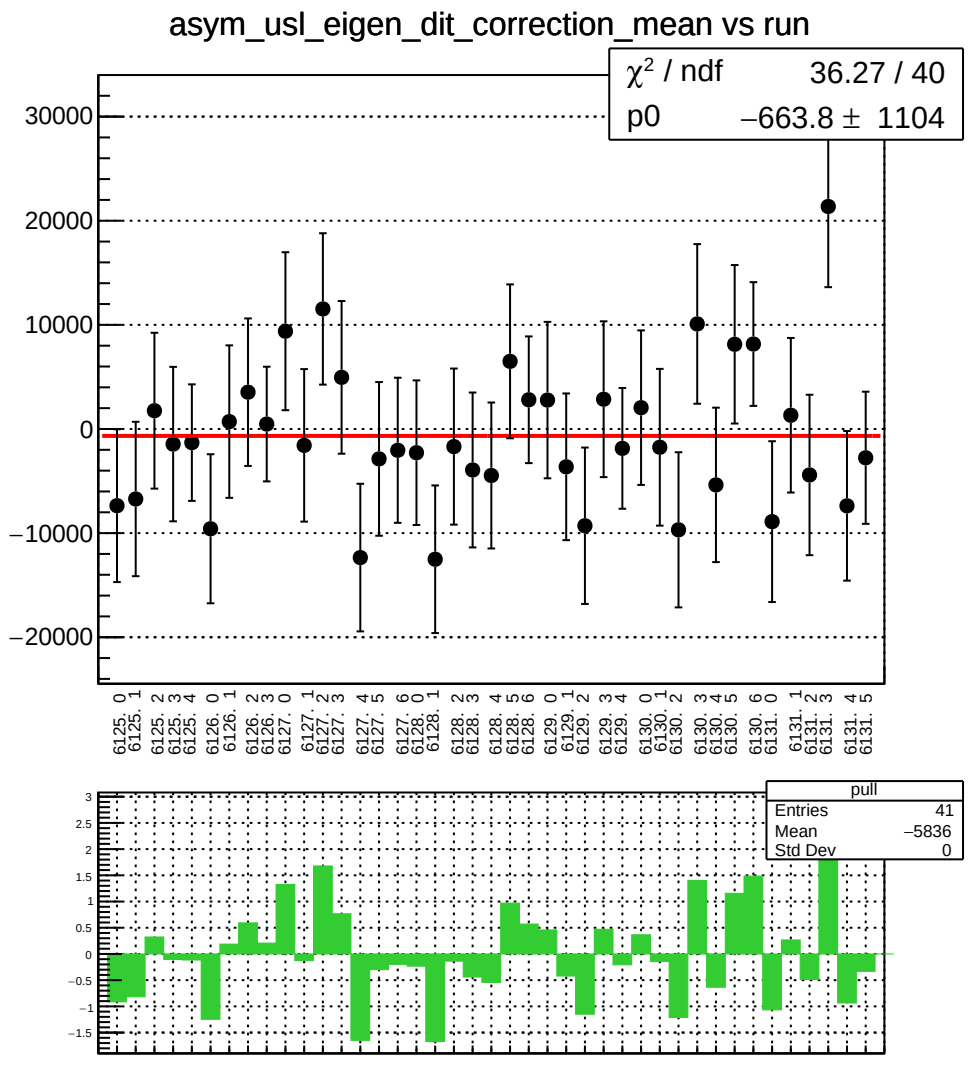

asym_usl_dit_correction_mean vs run
χ² / ndf 36.27 / 40
p0 −663.8 ± 1104
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −5836
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.0002553
Std Dev 0.9406
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

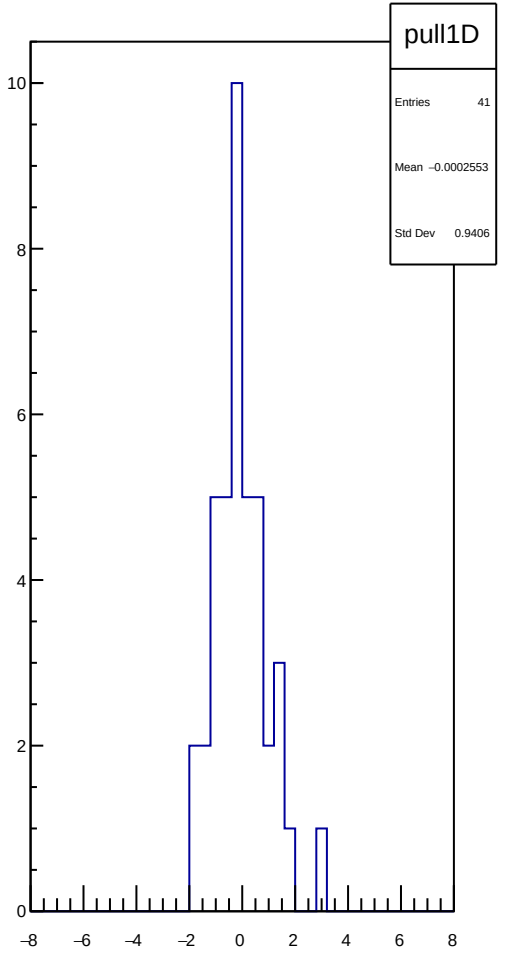

asym_usl_dit_correction_rms vs run
χ² / ndf 601.5 / 40
p0 699.6 ± 0.7804
740
720
700
680
660
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

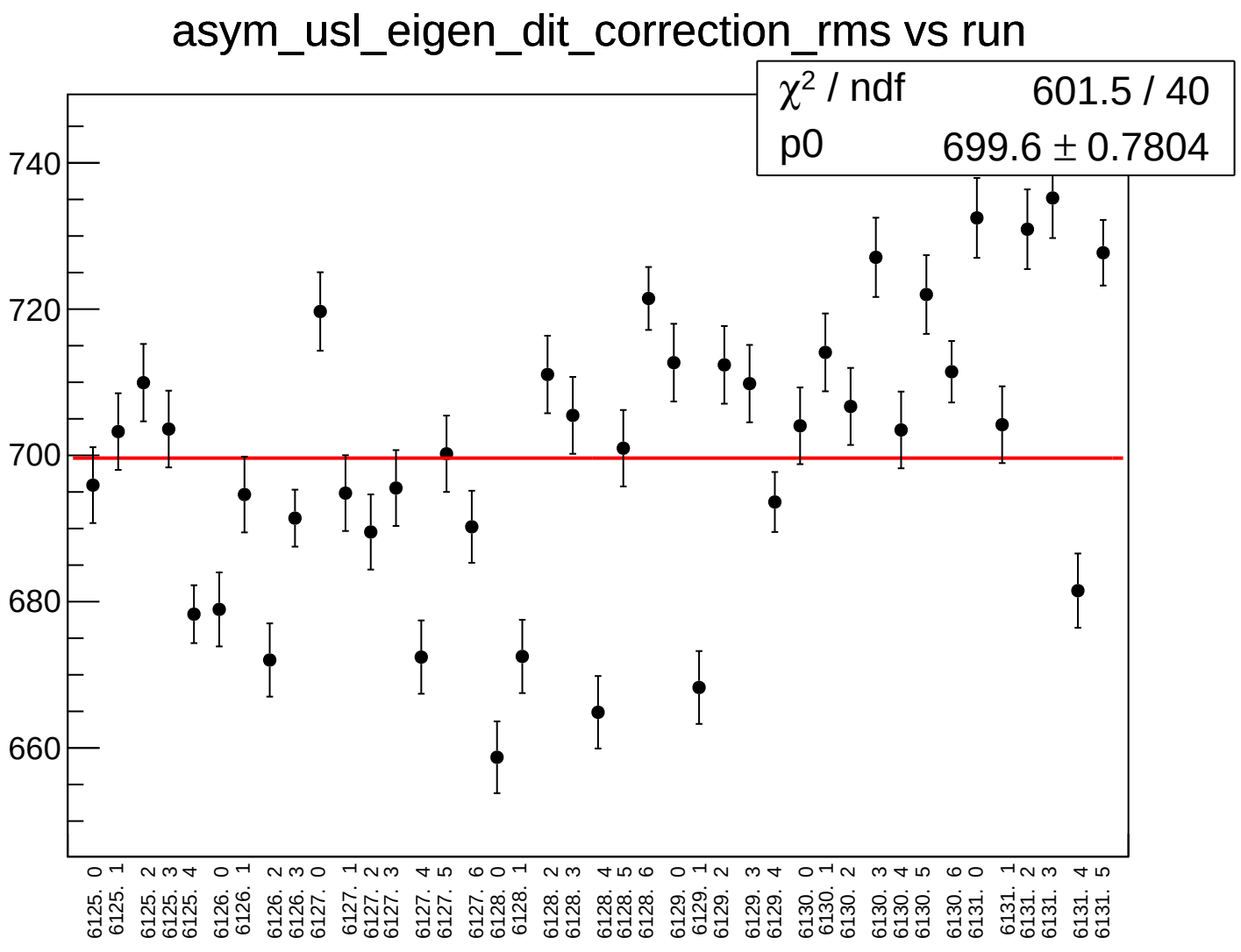

eigen_dit_asym_usl_mean vs run
χ² / ndf 45.4 / 40
p0 3100 ± 1764
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 74.66
Std Dev 0
3
2
1
0
−1

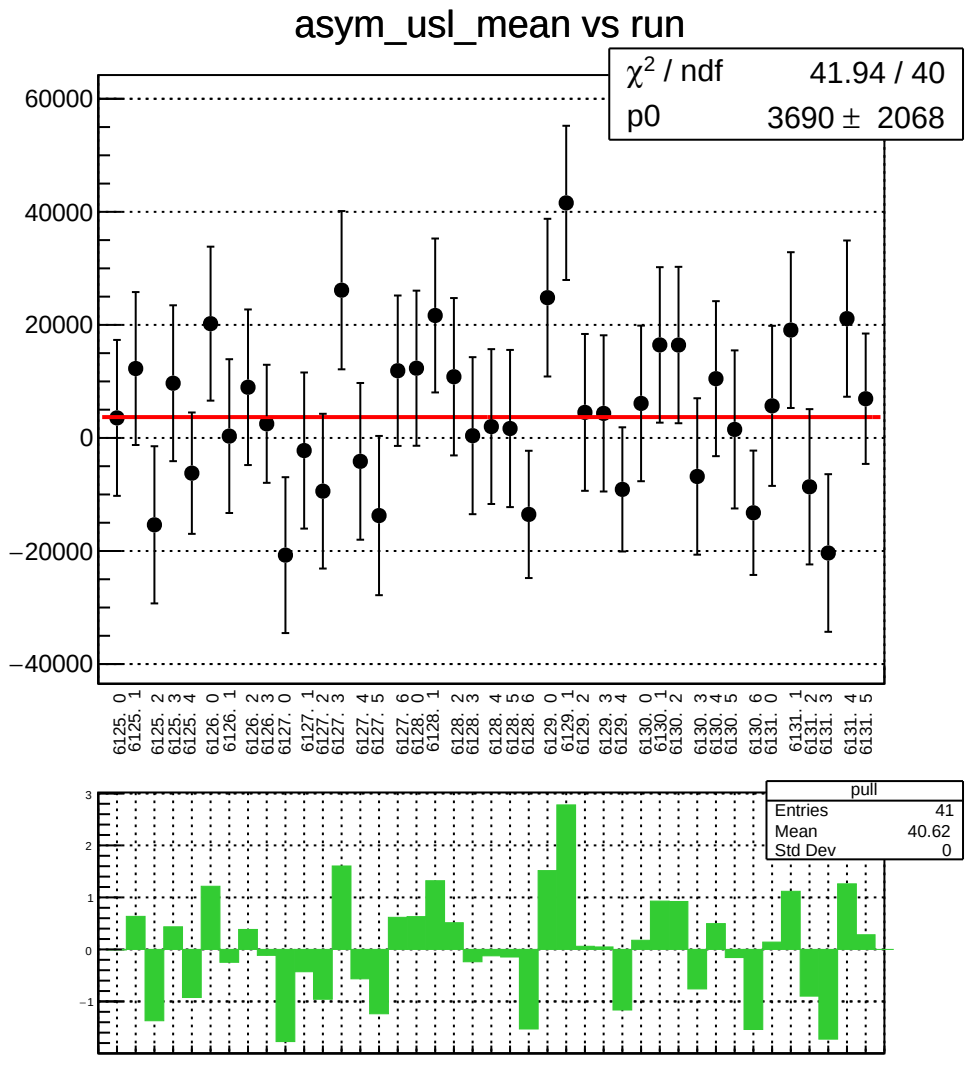

pull1D
Entries 41
Mean 0.03015
Std Dev 1.052
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

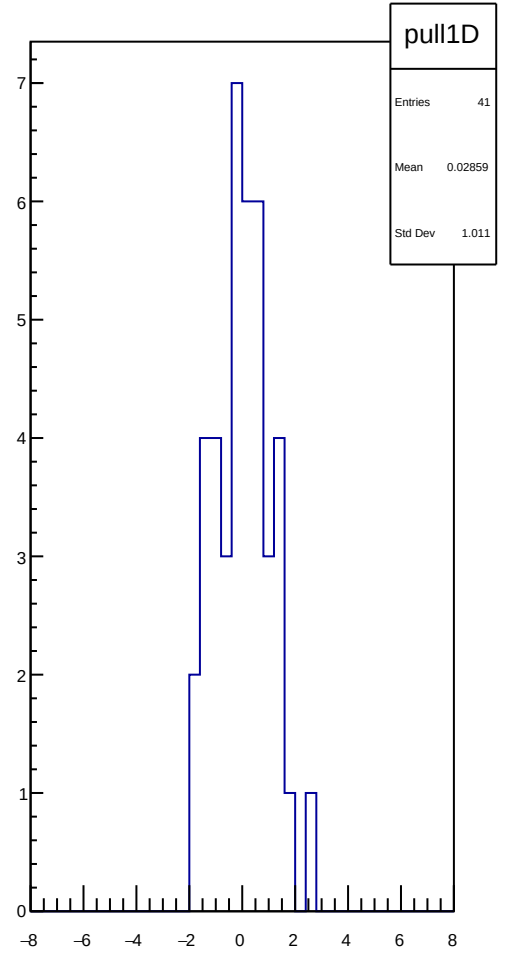

eigen_dit_asym_usl_rms vs run
χ² / ndf 44.2 / 40
p0 1119 ± 1.248
1140
1130
1120
1110
1100
1090
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

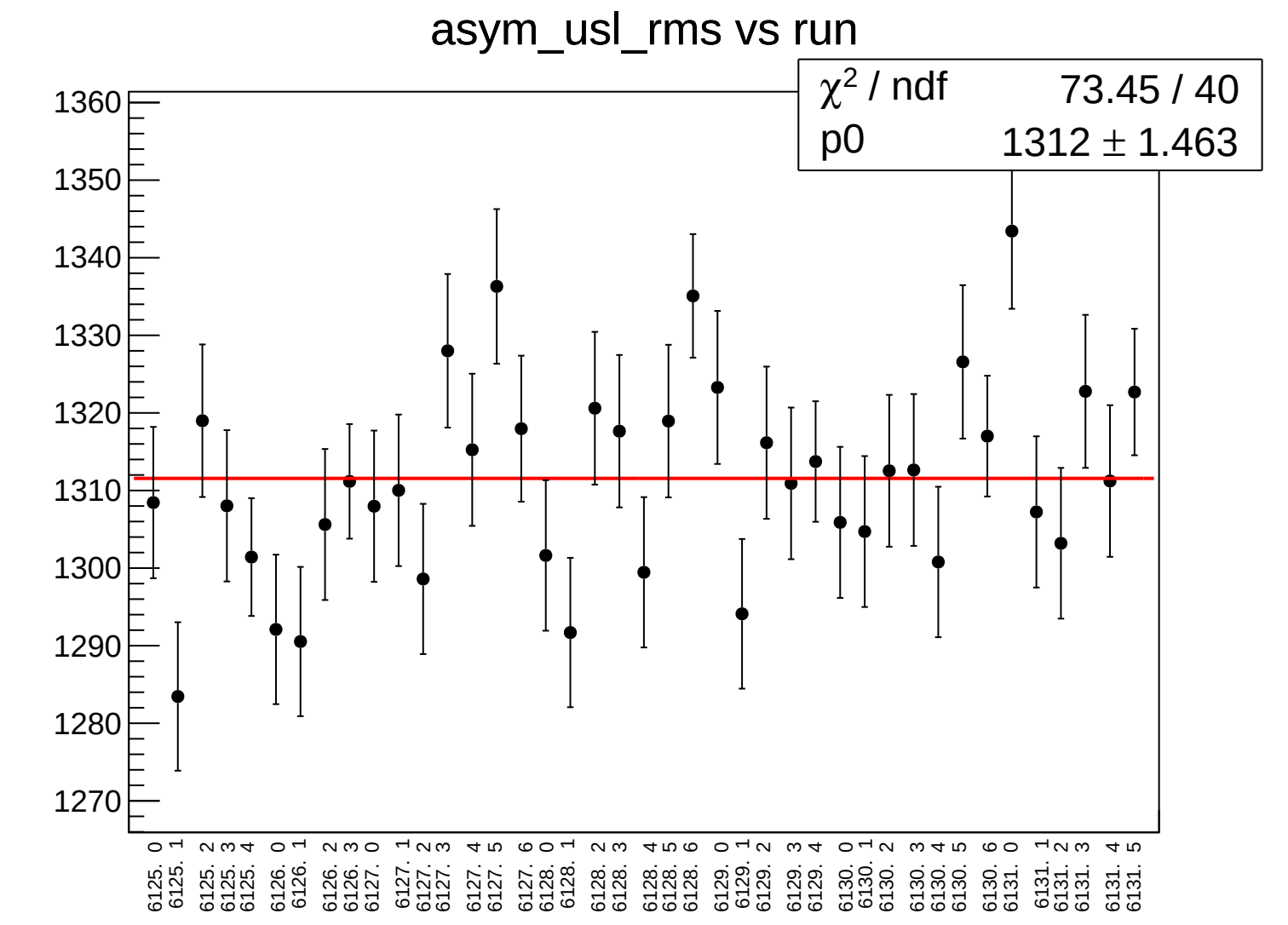

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 36.27 / 40
p0 −663.8 ± 1104
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −5836
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

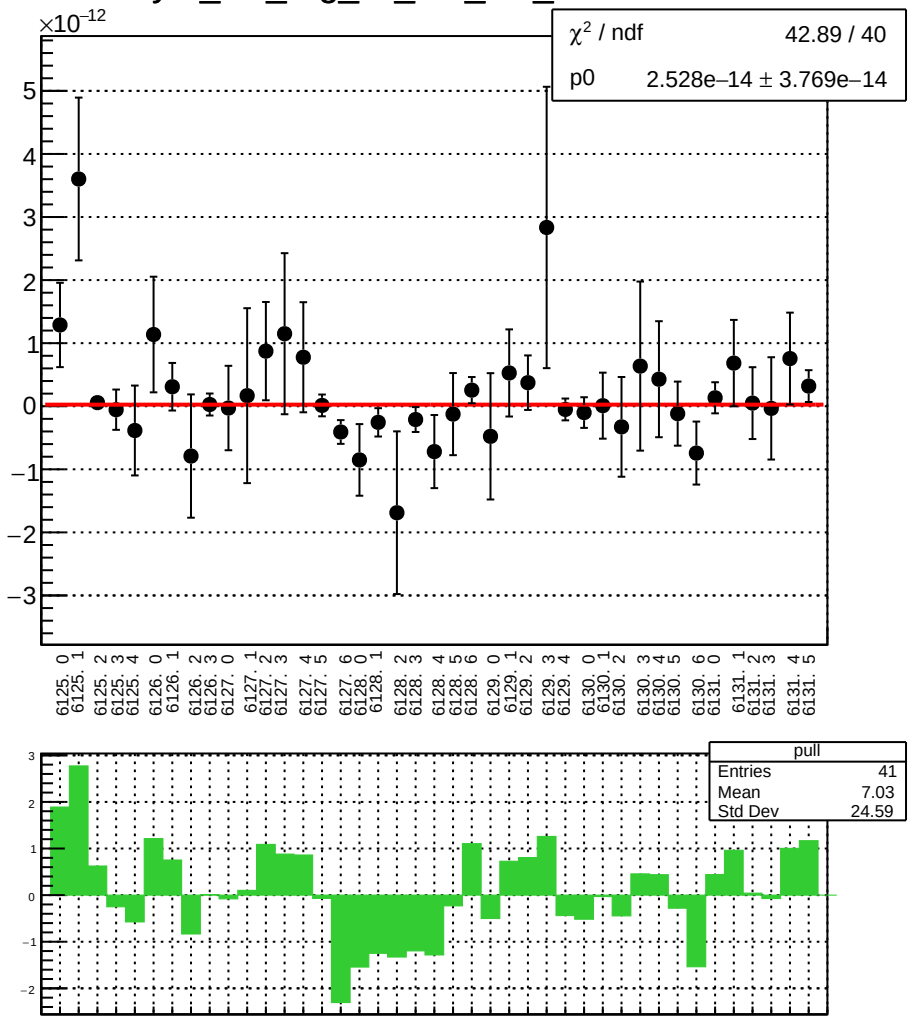

pull1D
Entries 41
Mean −0.0002553
Std Dev 0.9406
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

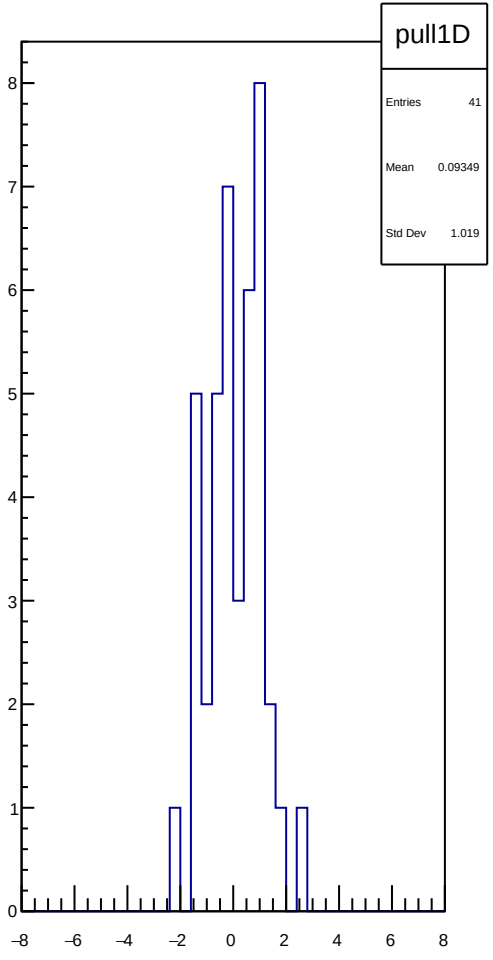

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 601.5 / 40
p0 699.6 ± 0.7804
740
720
700
680
660
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

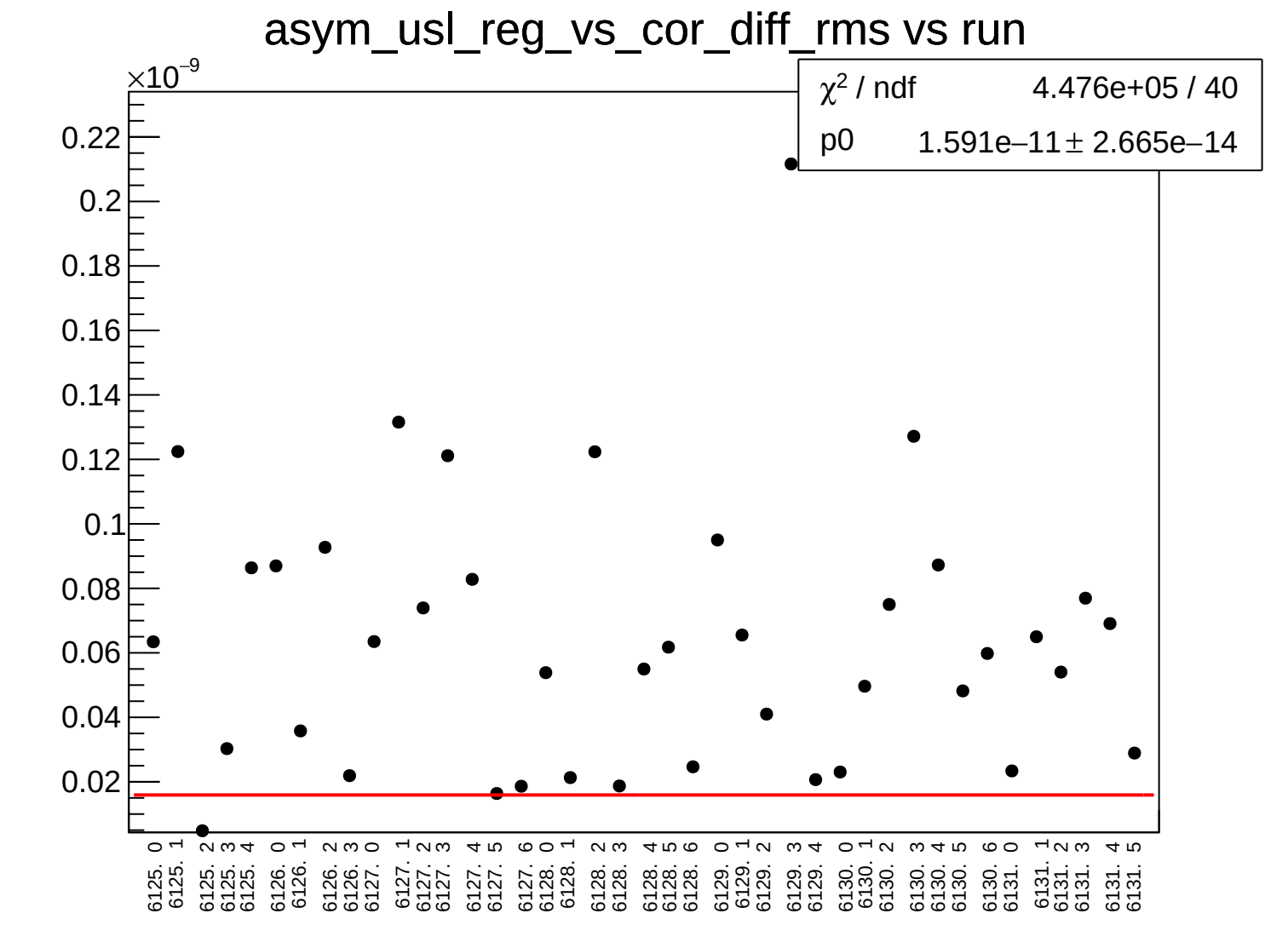

asym_usl_mean vs run
χ² / ndf 41.94 / 40
p0 3690 ± 2068
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 40.62
Std Dev 0
3
2
1
0
−1

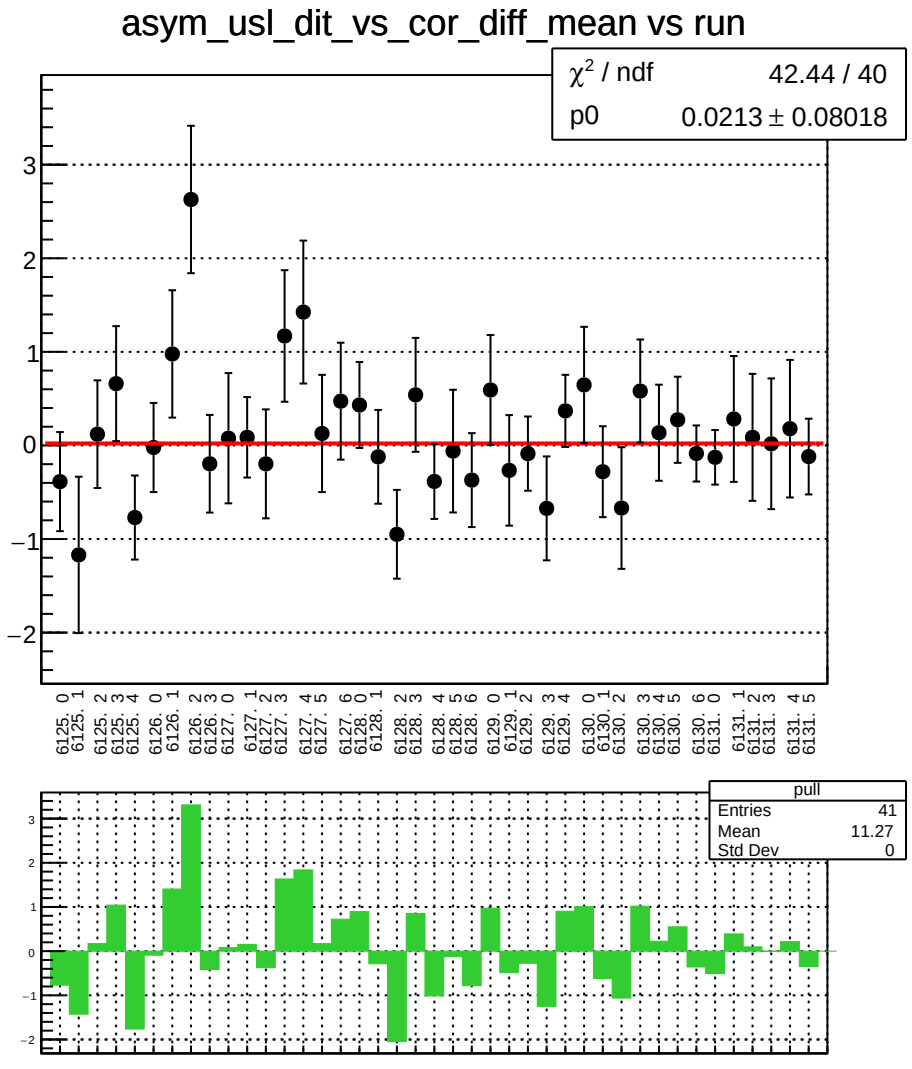

pull1D
Entries 41
Mean 0.02859
Std Dev 1.011
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

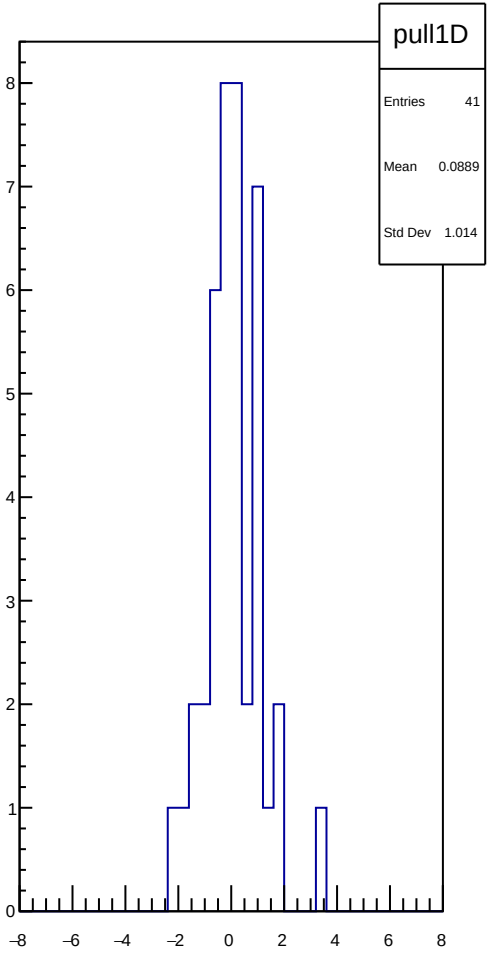

asym_usl_rms vs run
χ² / ndf 73.45 / 40
p0 1312 ± 1.463
1360
1350
1340
1330
1320
1310
1300
1290
1280
1270
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

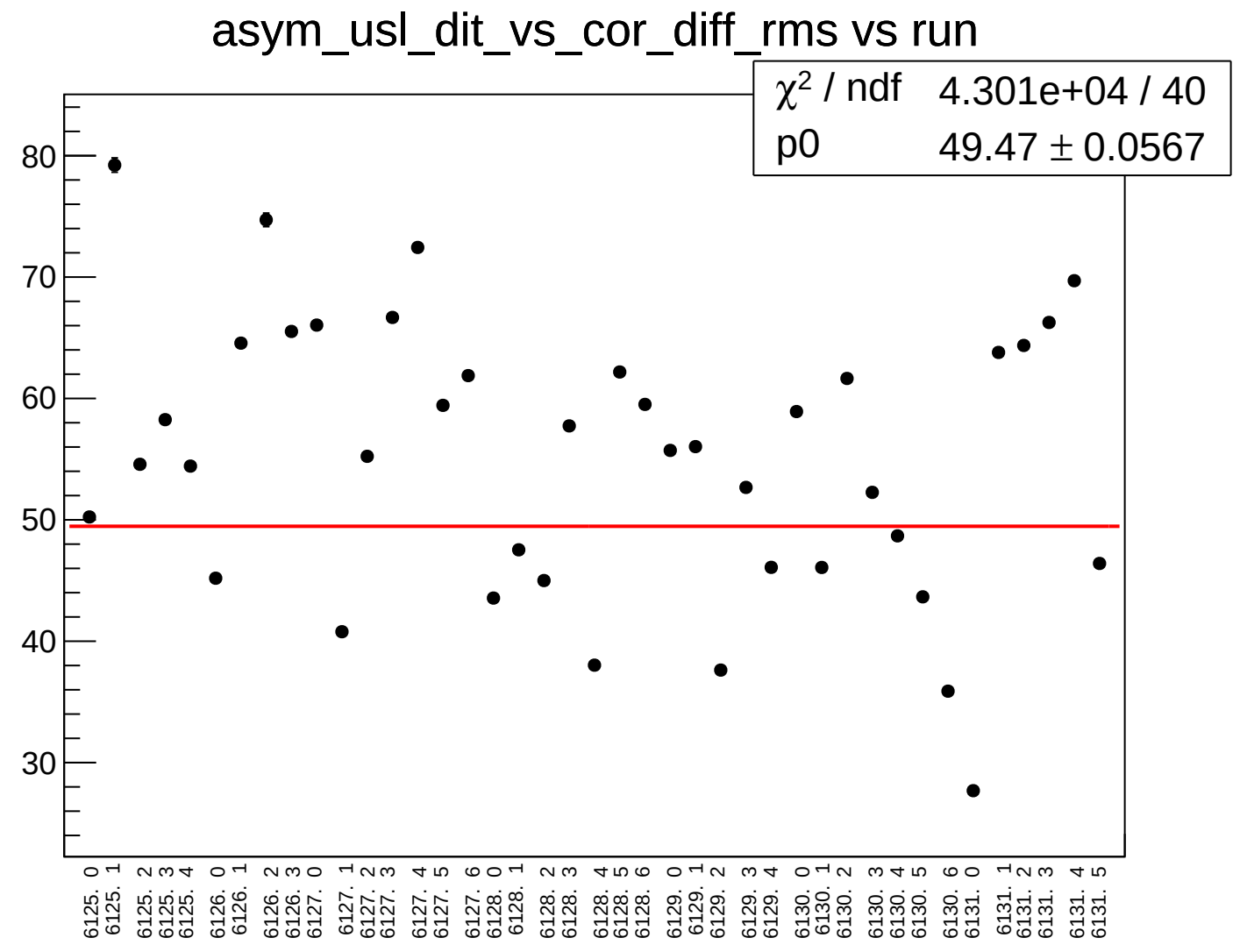

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 42.89 / 40
p0 2.528e−14 ± 3.769e−14
pull
Entries 41
Mean 7.03
Std Dev 24.59

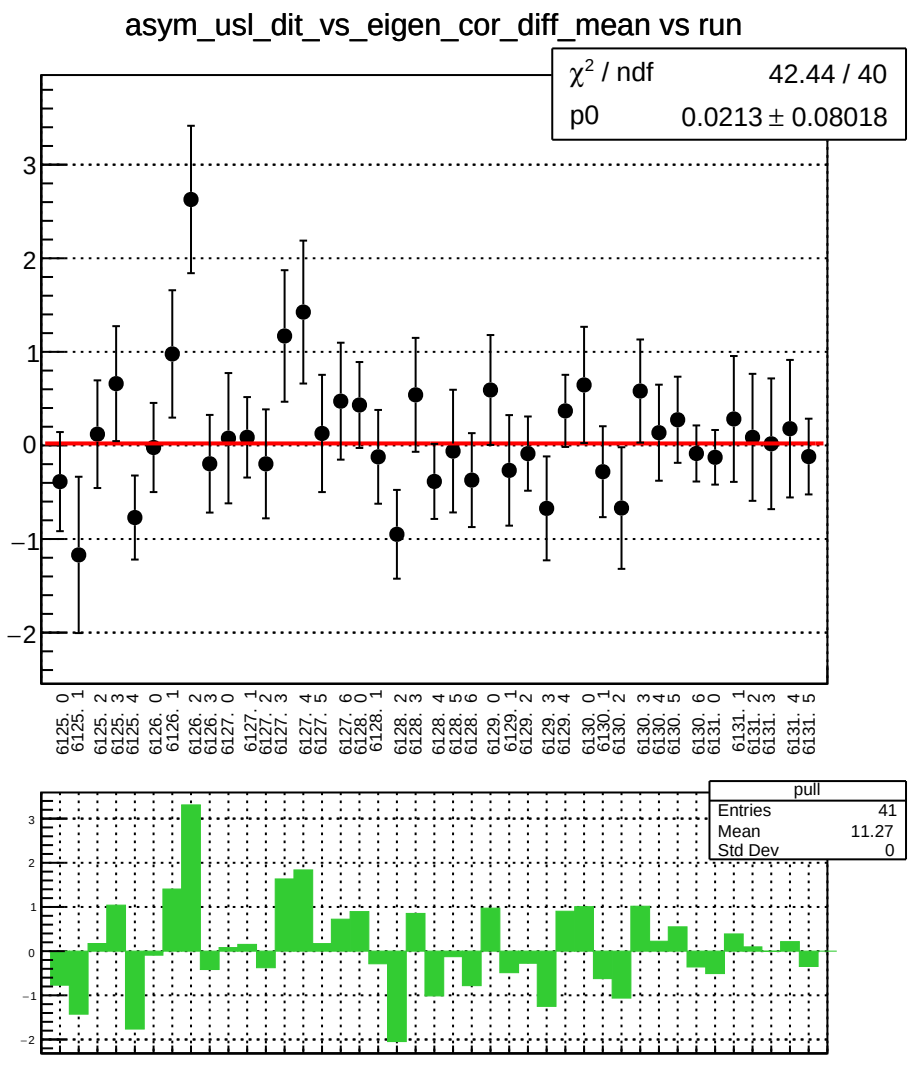

pull1D
Entries 41
Mean 0.09349
Std Dev 1.019

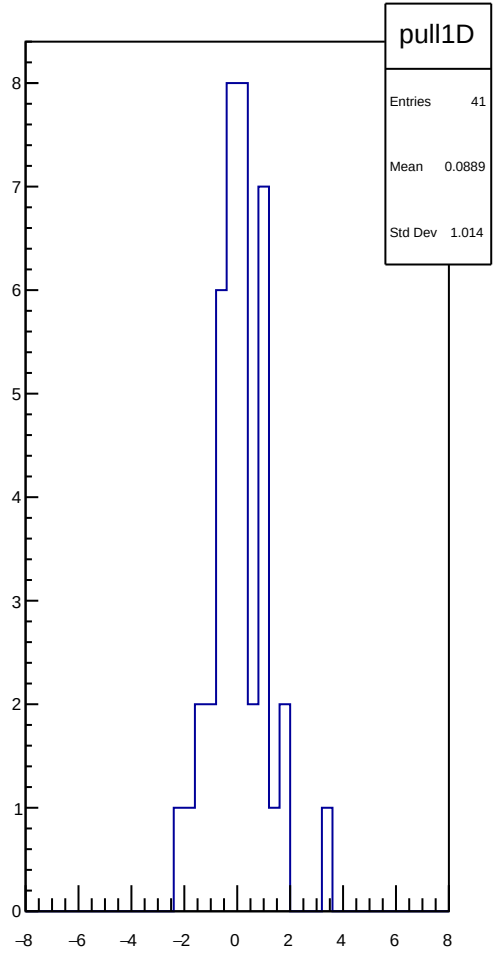

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.476e+05 / 40
p0 1.591e−11 ± 2.665e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

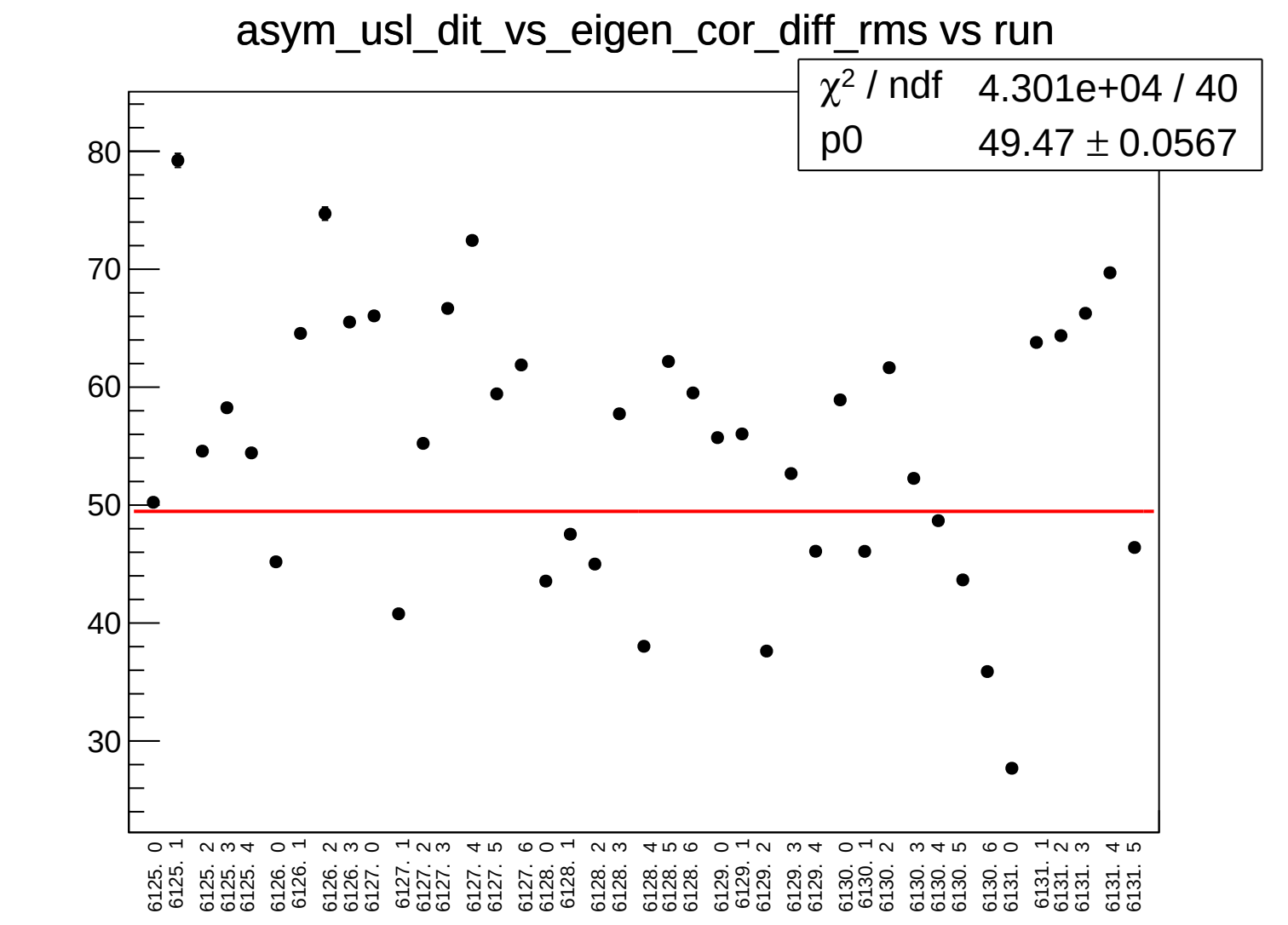

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 42.44 / 40
p0 0.0213 ± 0.08018
pull
Entries 41
Mean 11.27
Std Dev 0

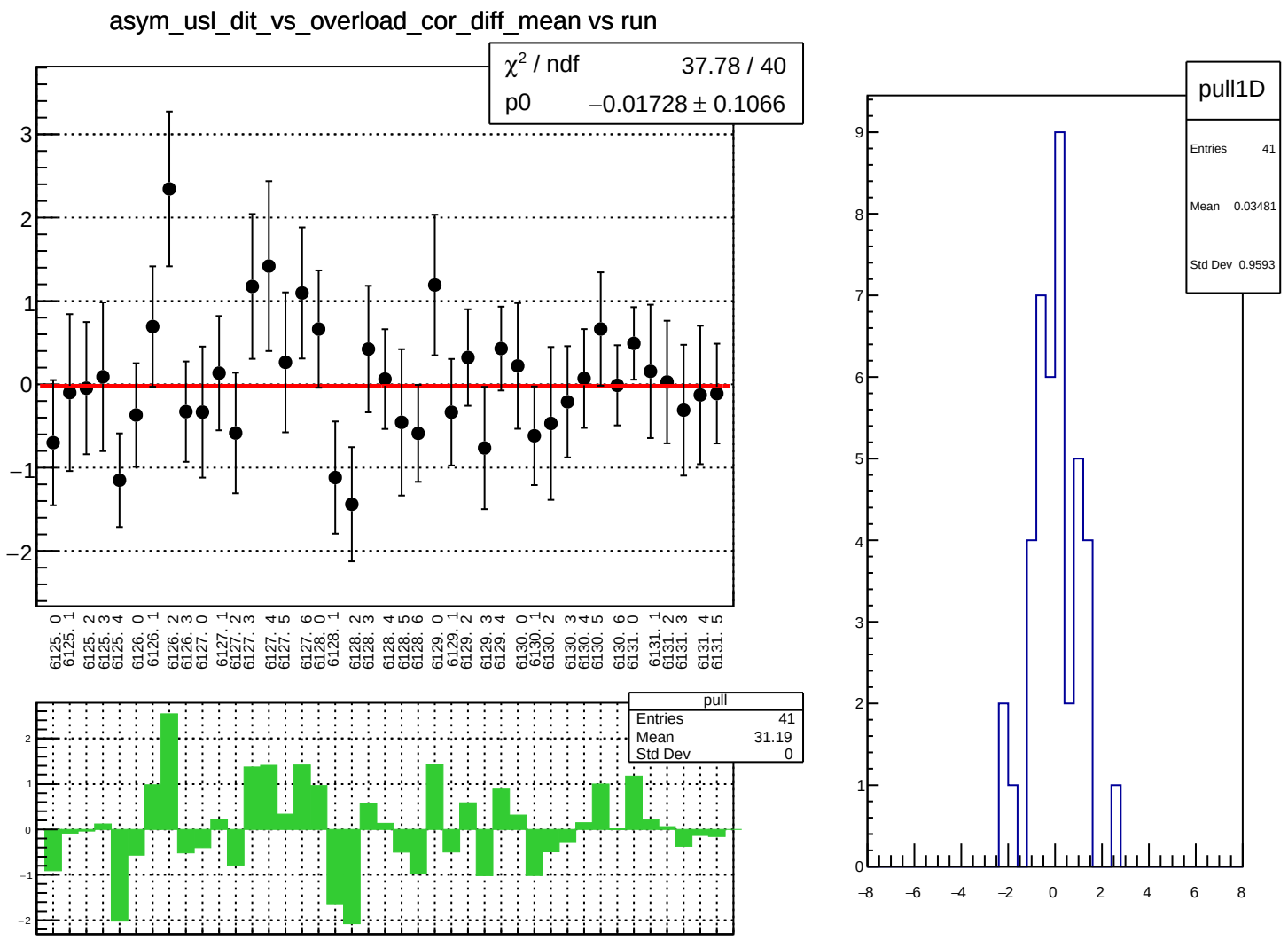

pull1D
Entries 41
Mean 0.0889
Std Dev 1.014

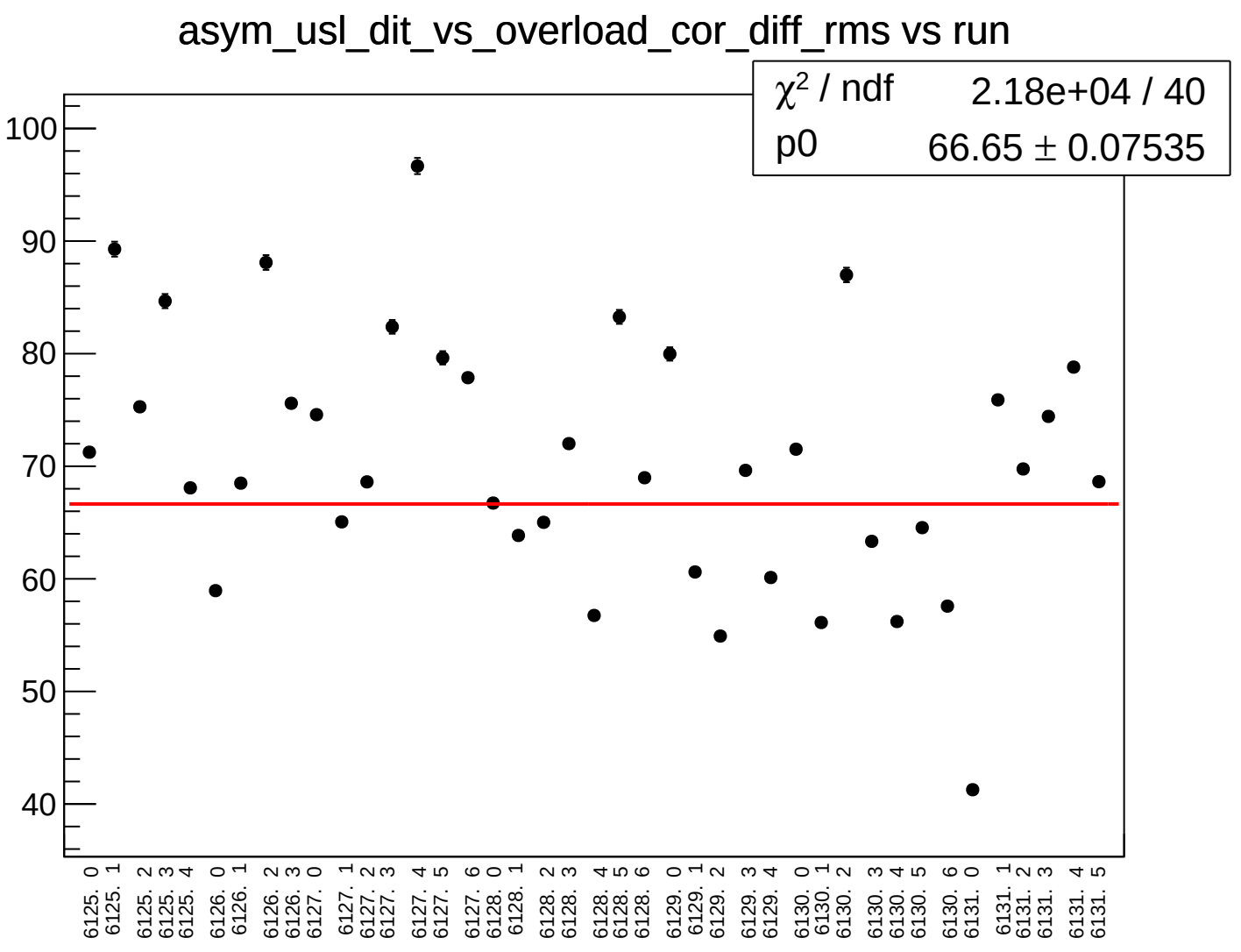

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 4.301e+04 / 40
p0 49.47 ± 0.0567
80
70
60
50
40
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

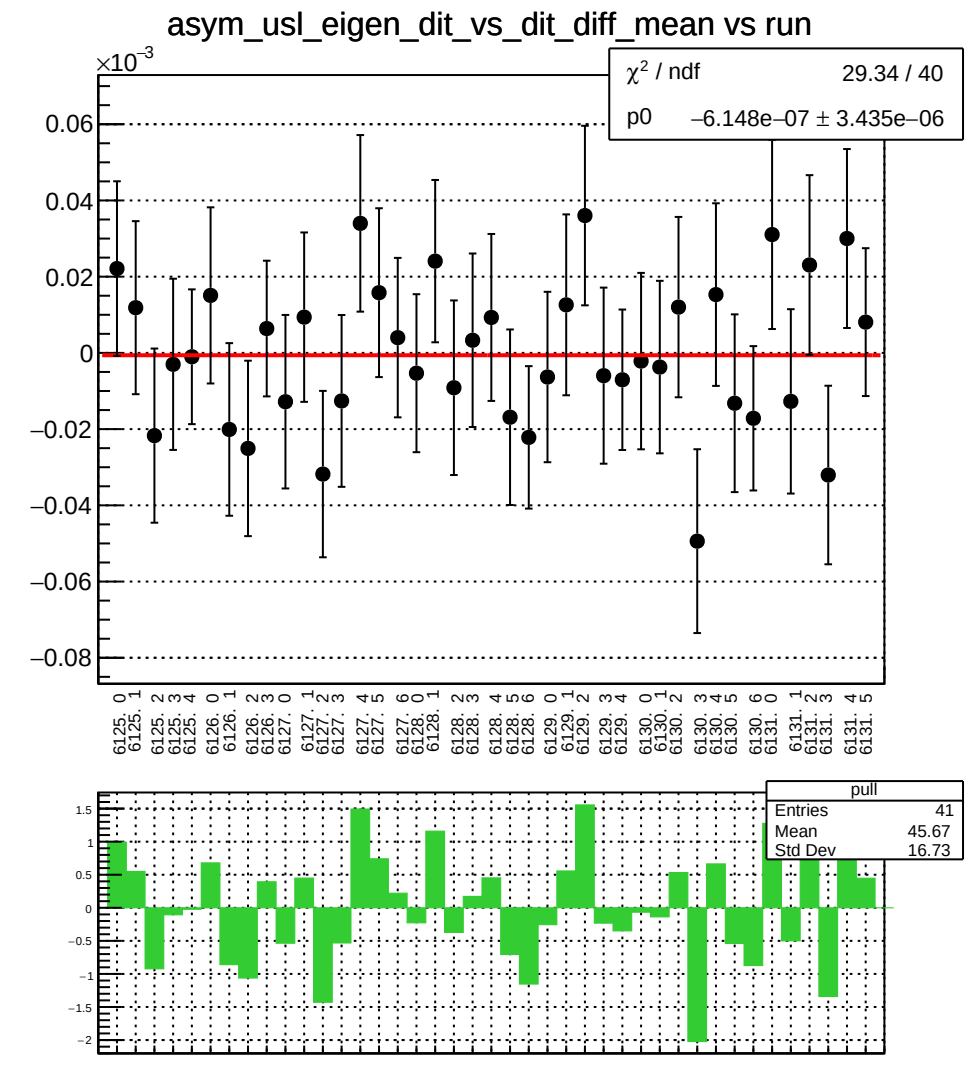

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ^2 / ndf 42.44 / 40
p0 0.0213 ± 0.08018
3
2
1
0
−1
−2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 11.27
Std Dev 0
3
2
1
0
−1
−2

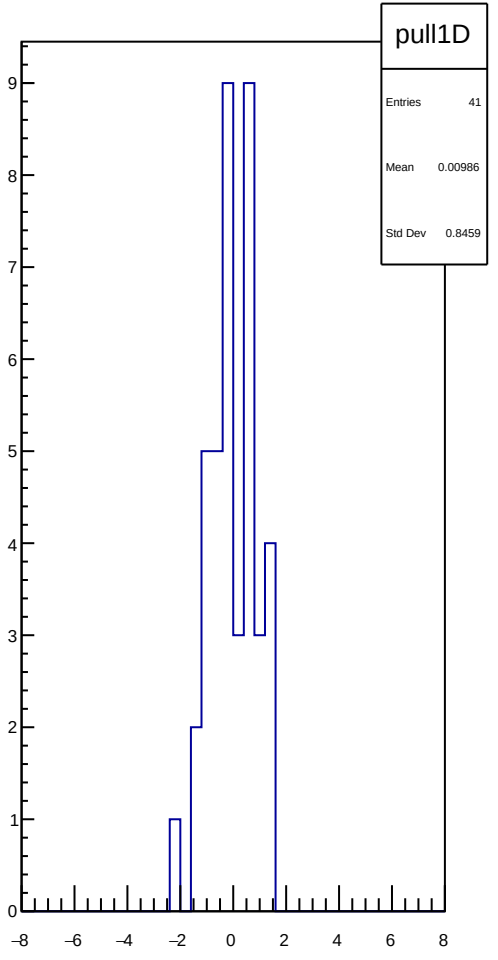

pull1D
Entries 41
Mean 0.0889
Std Dev 1.014
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

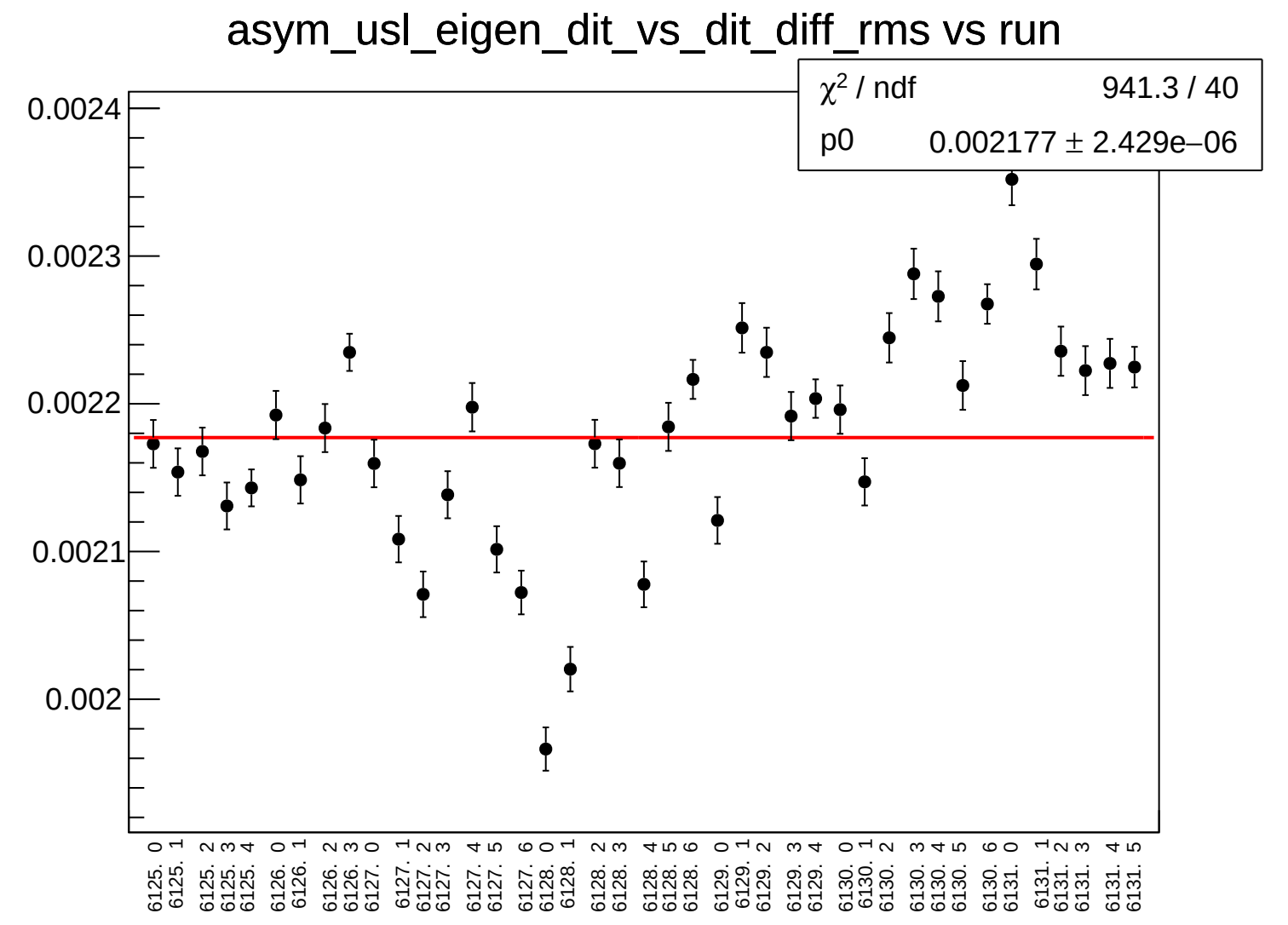

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.301e+04 / 40
p0 49.47 ± 0.0567
80
70
60
50
40
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

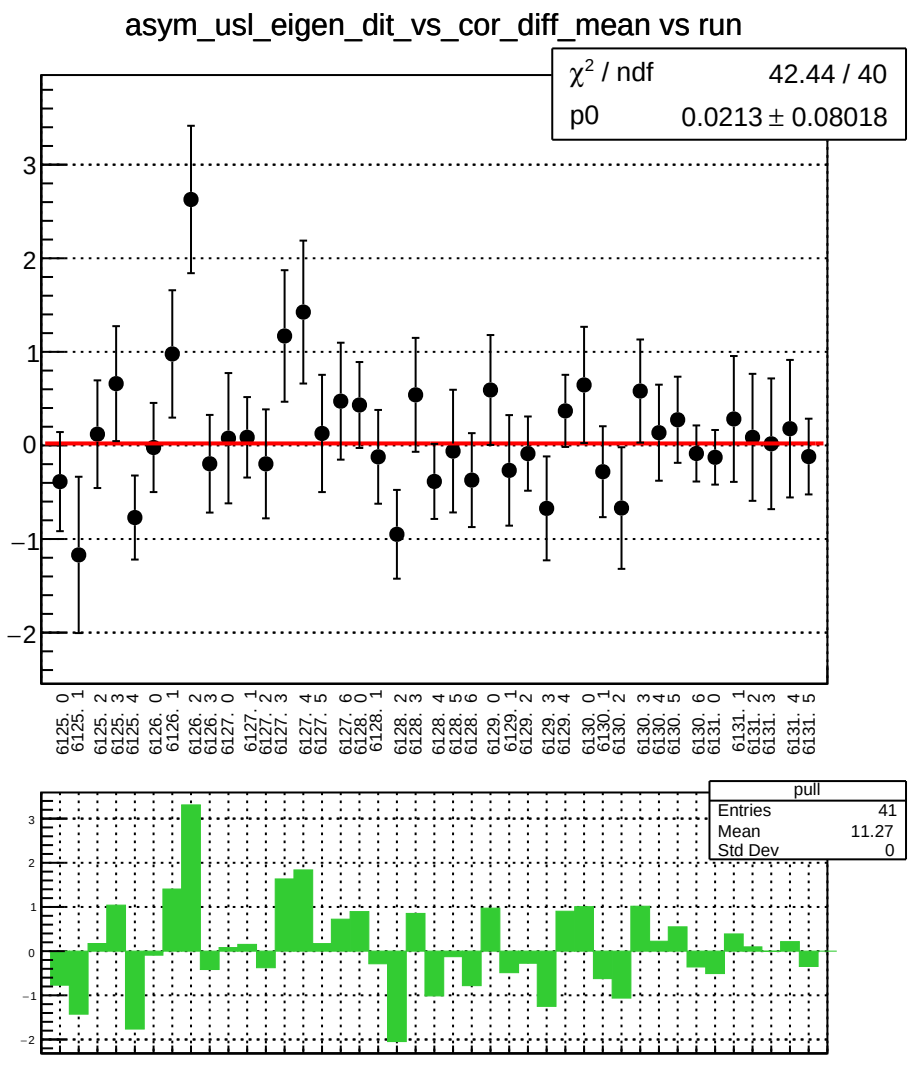

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 37.78 / 40
p0 −0.01728 ± 0.1066
pull
Entries 41
Mean 31.19
Std Dev 0
pull1D
Entries 41
Mean 0.03481
Std Dev 0.9593

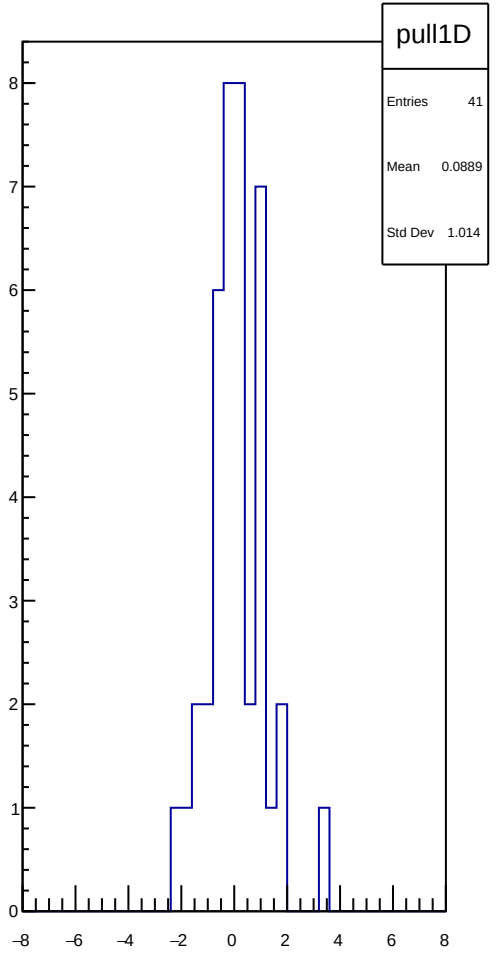

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.18e+04 / 40
p0 66.65 ± 0.07535
100
90
80
70
60
50
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

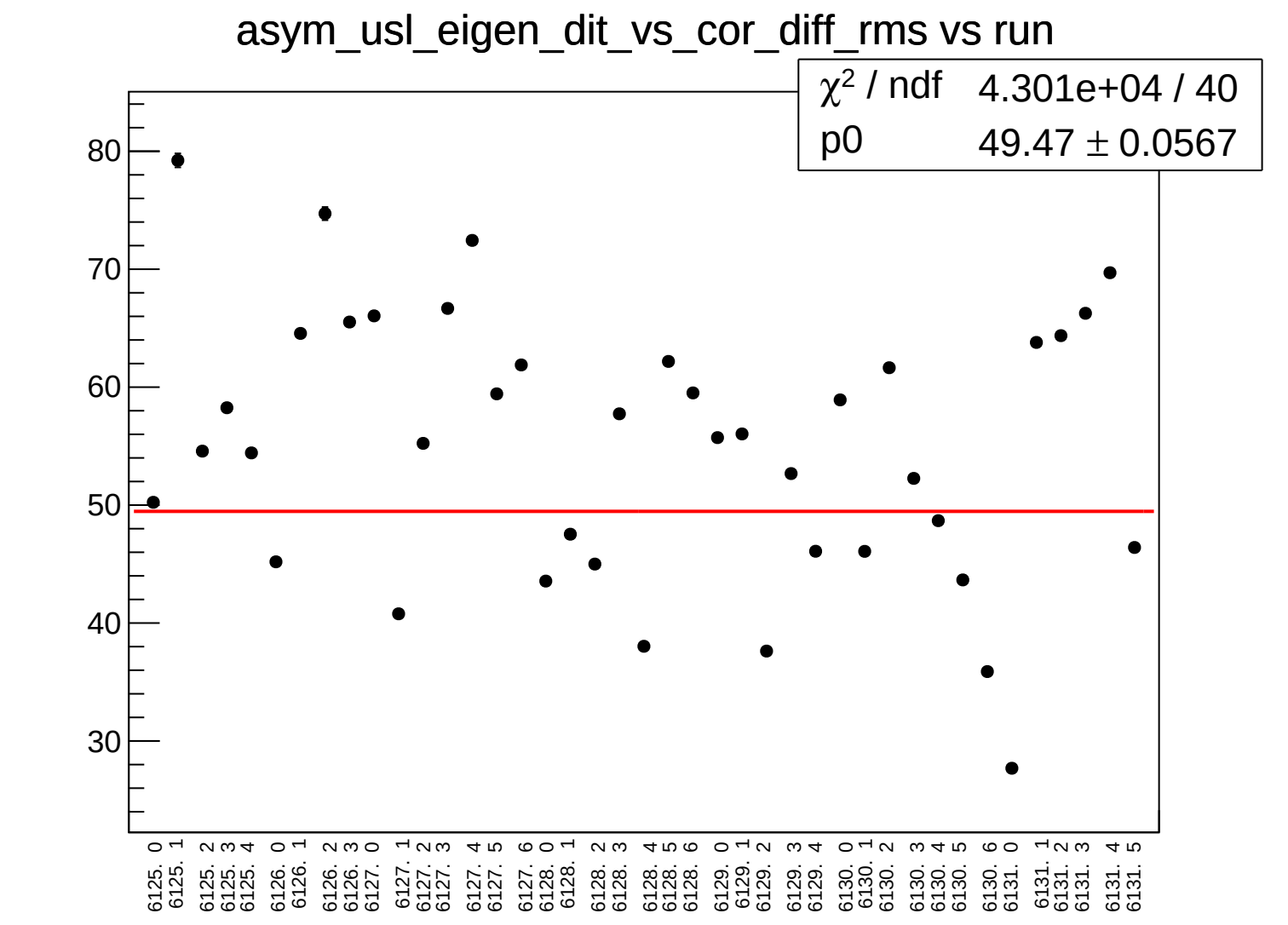

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 29.34 / 40
p0 −6.148e−07 ± 3.435e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 45.67
Std Dev 16.73
1.5
1
0.5
0
−0.5
−1
−1.5
−2

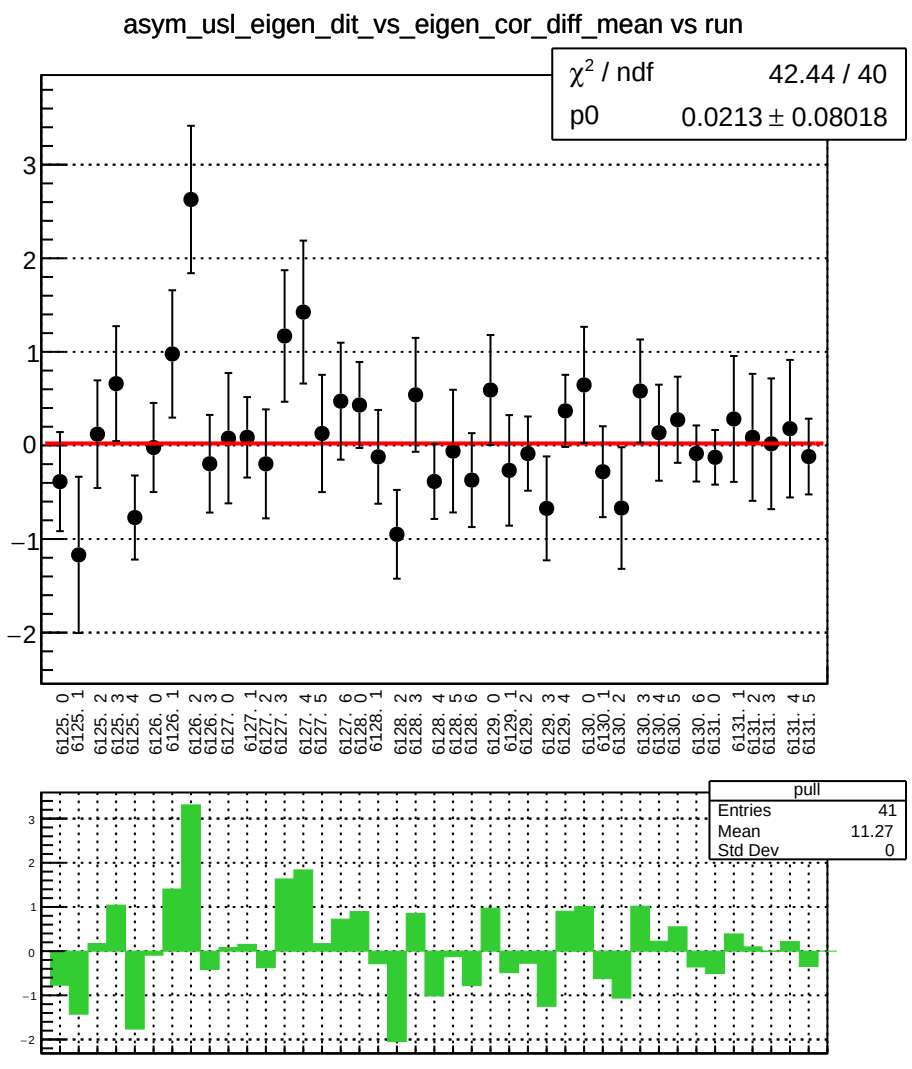

pull1D
Entries 41
Mean 0.00986
Std Dev 0.8459
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

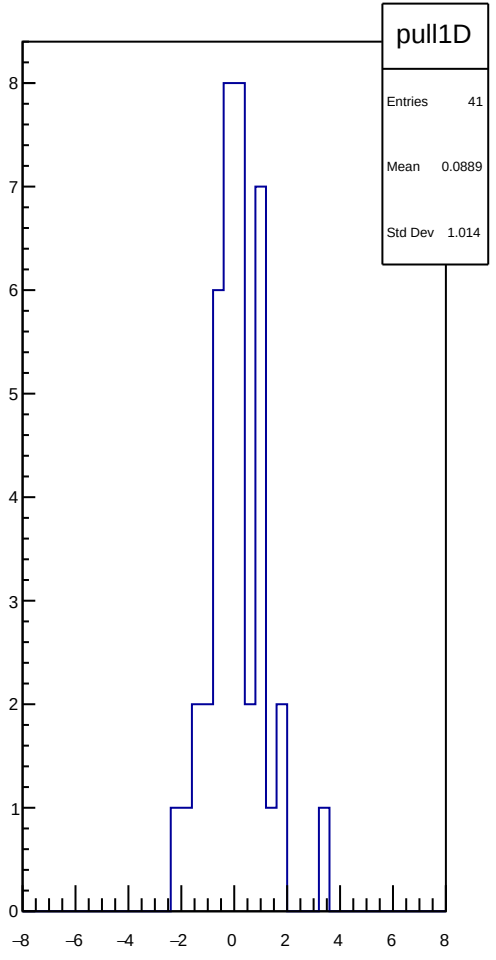

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 941.3 / 40
p0 0.002177 ± 2.429e−06
0.0024
0.0023
0.0022
0.0021
0.002
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

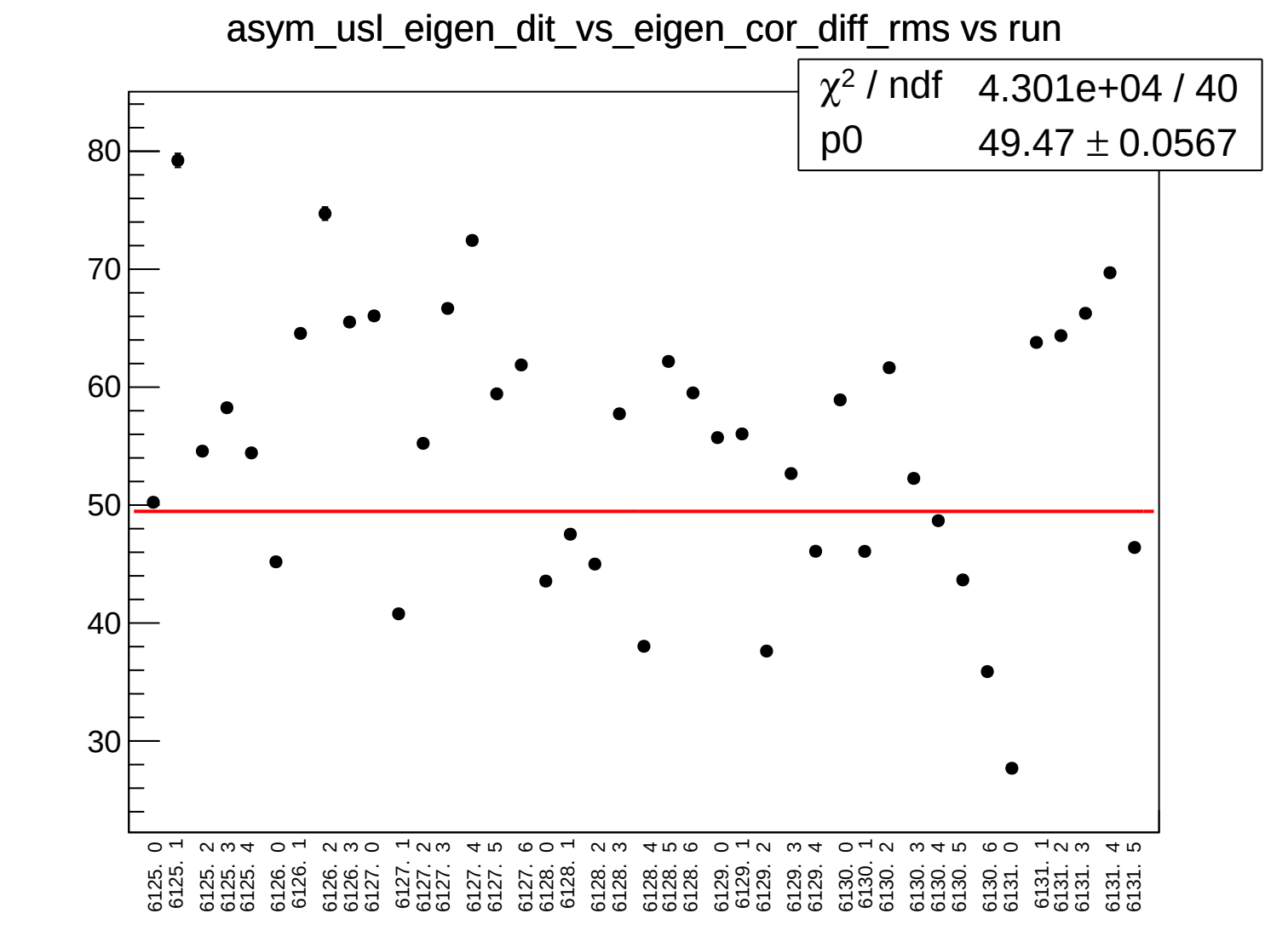

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 42.44 / 40
p0 0.0213 ± 0.08018
3
2
1
0
−1
−2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 11.27
Std Dev 0
3
2
1
0
−1
−2

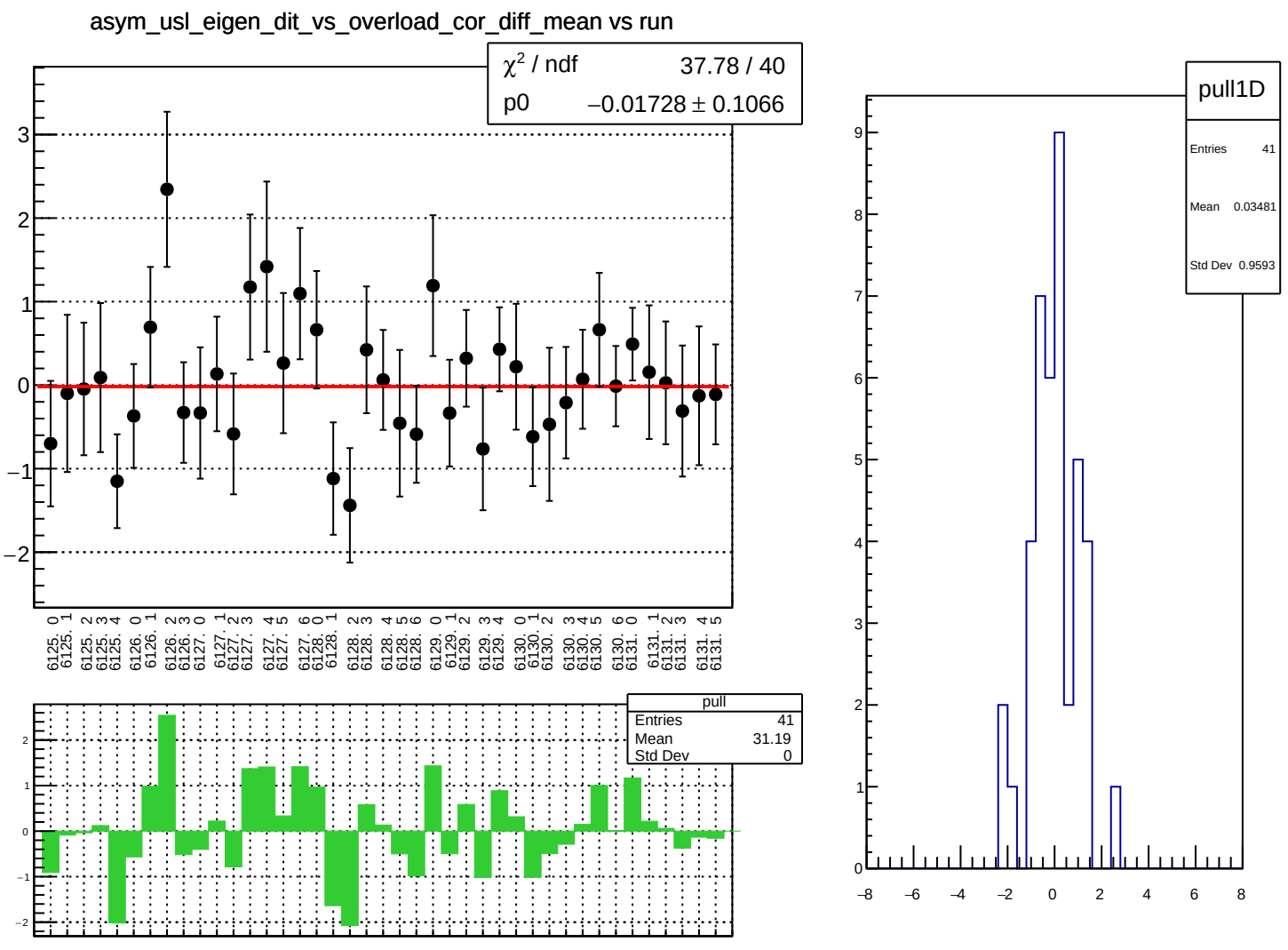

pull1D
Entries 41
Mean 0.0889
Std Dev 1.014
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

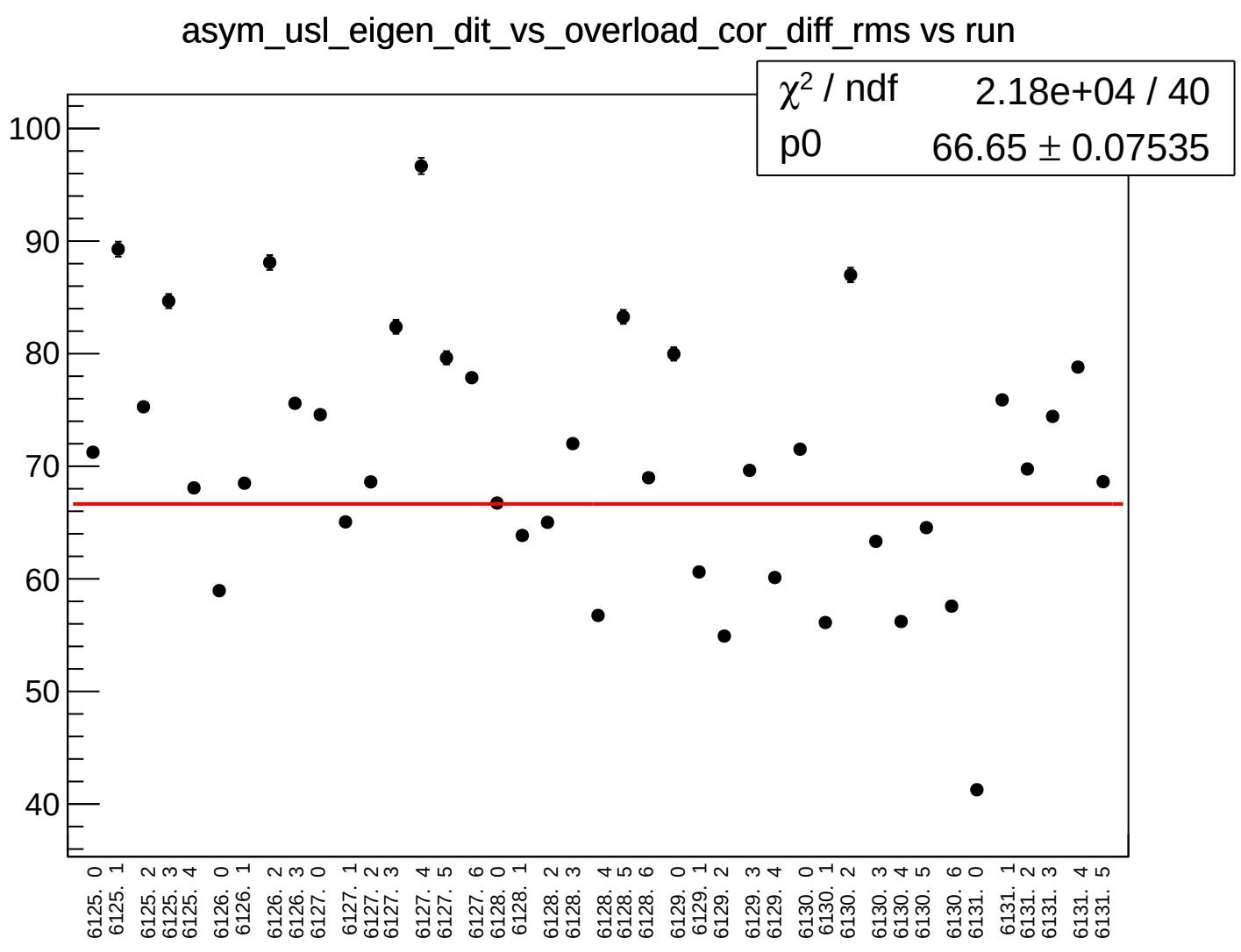

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.301e+04 / 40
p0 49.47 ± 0.0567
80
70
60
50
40
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

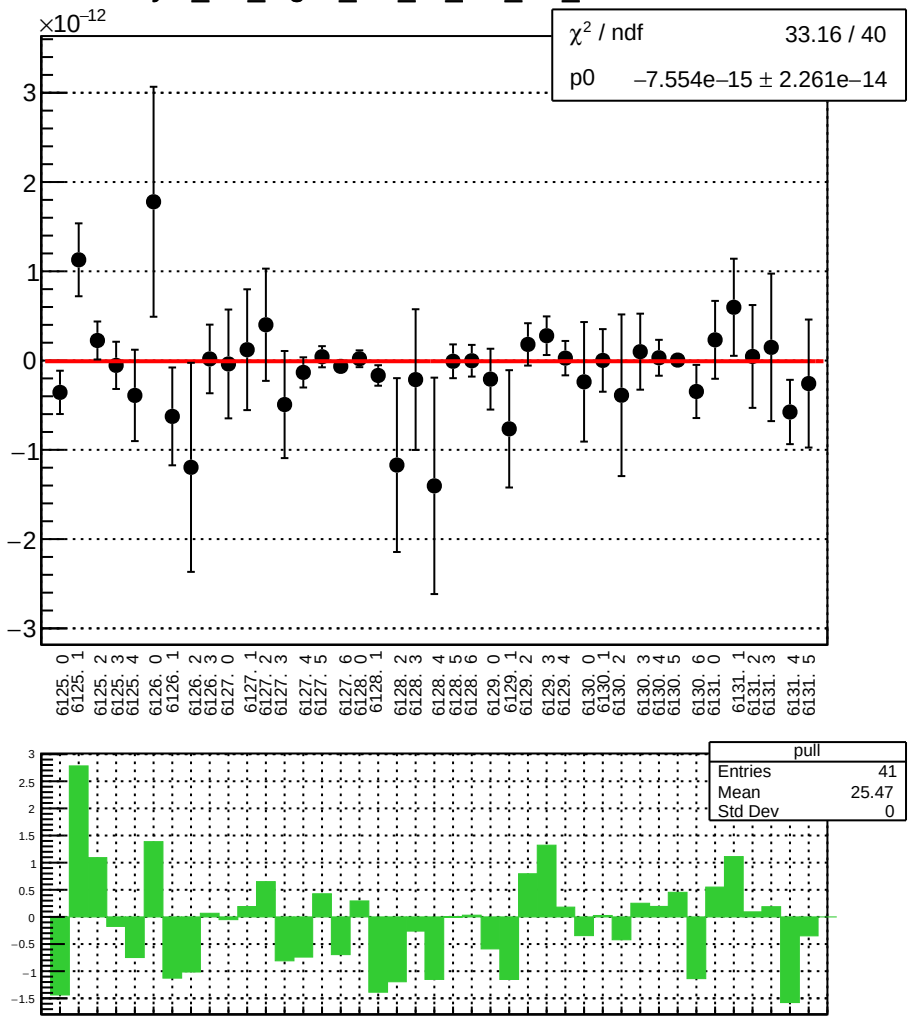

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.44 / 40
p0 0.0213 ± 0.08018
3
2
1
0
−1
−2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 11.27
Std Dev 0
3
2
1
0
−1
−2

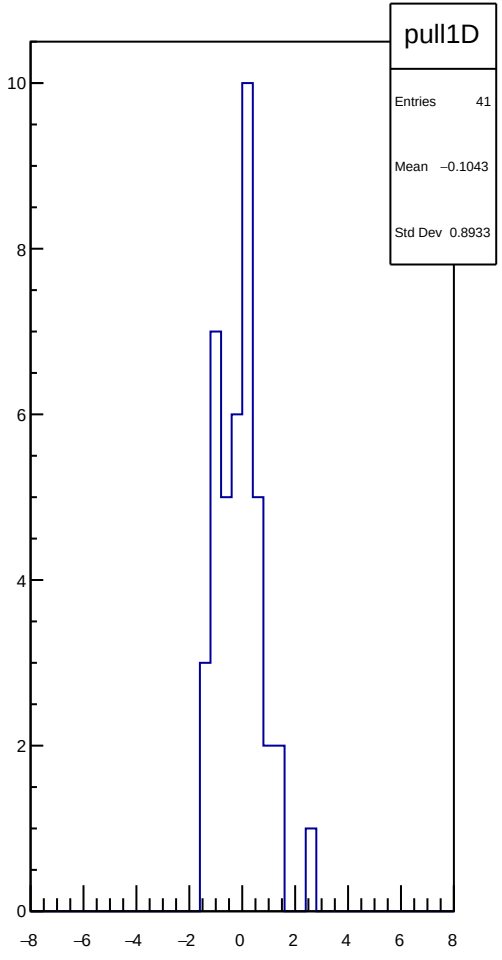

pull1D
Entries 41
Mean 0.0889
Std Dev 1.014
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

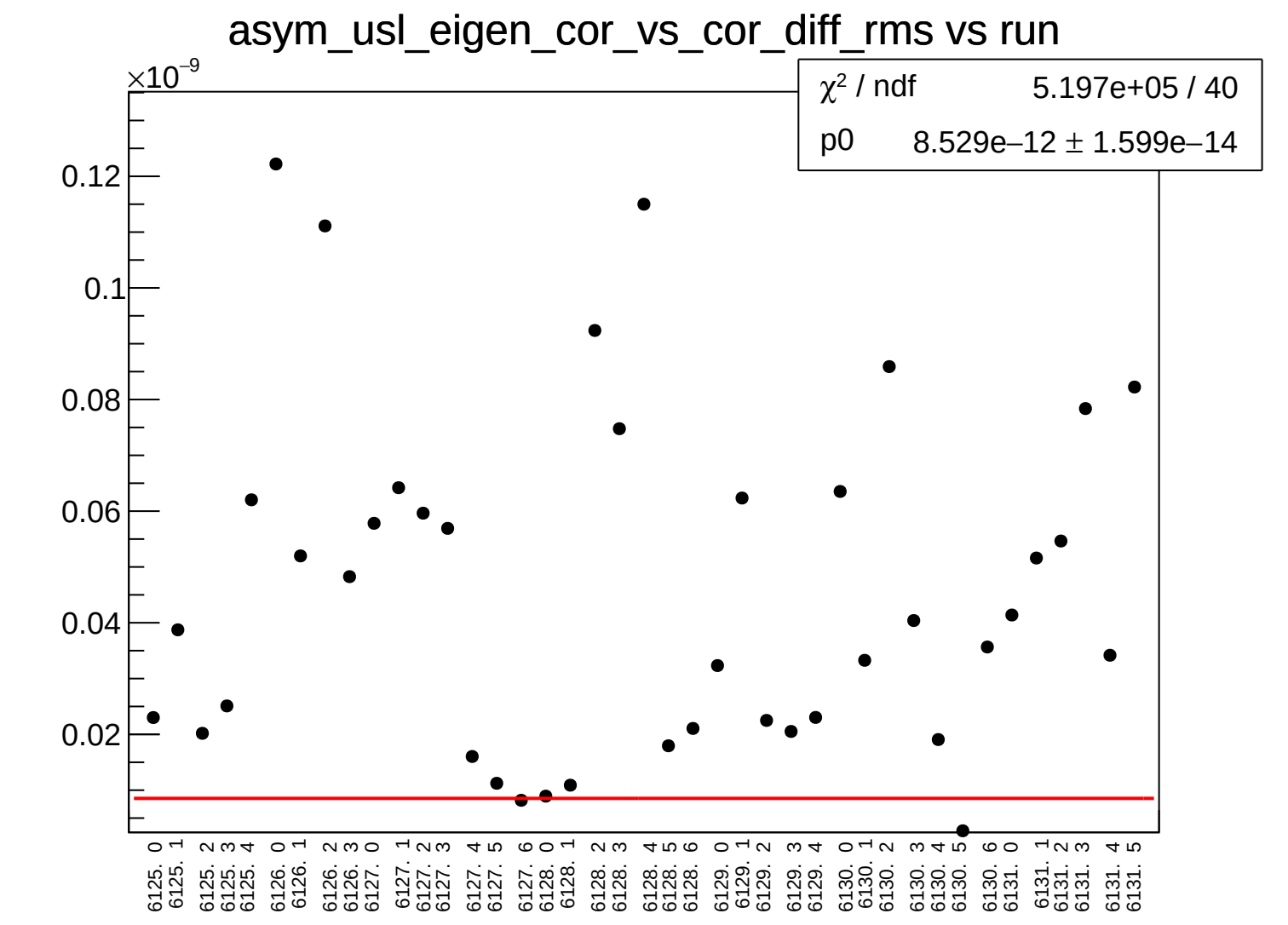

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.301e+04 / 40
p0 49.47 ± 0.0567
80
70
60
50
40
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

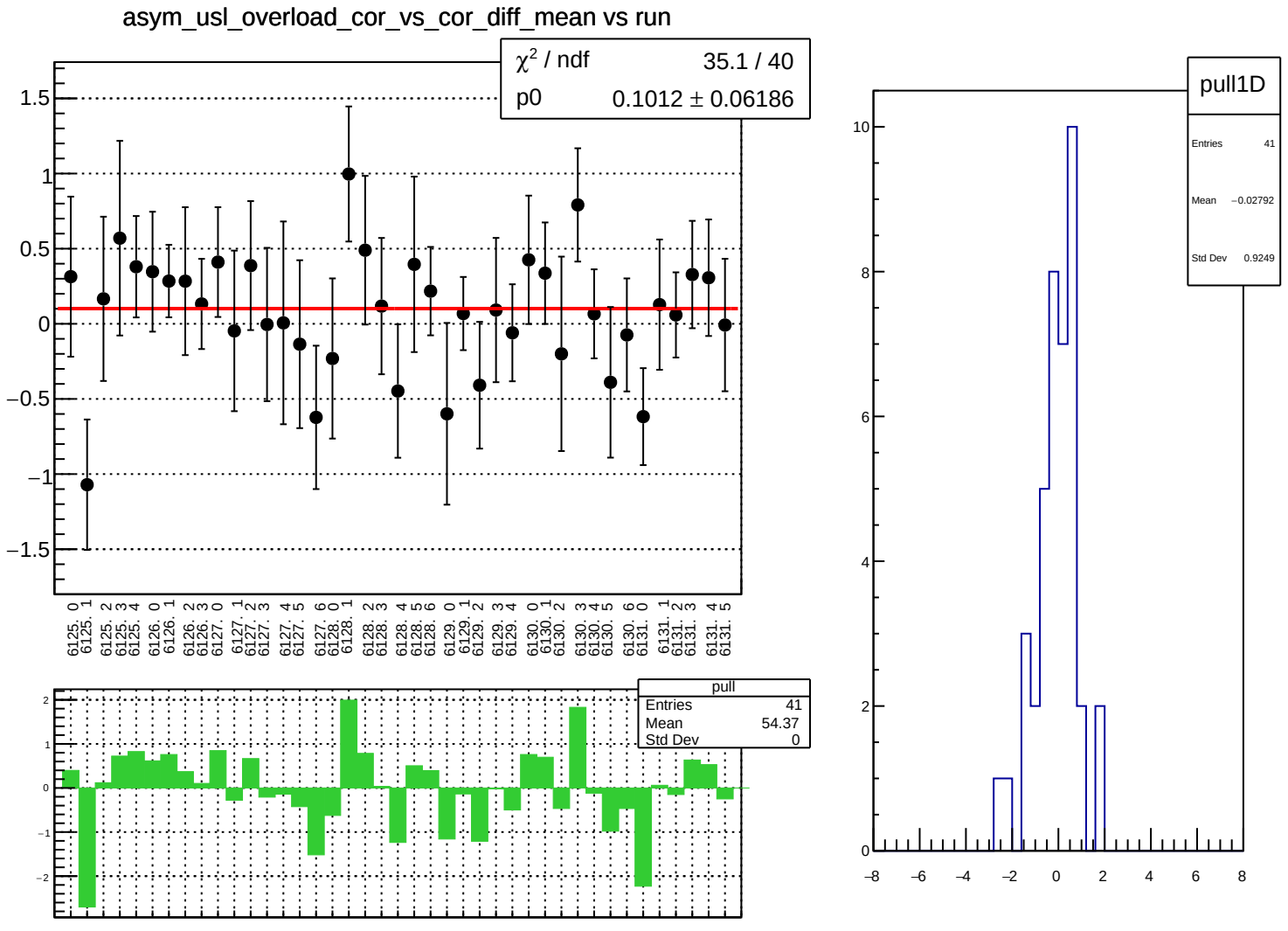

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 37.78 / 40
p0 −0.01728 ± 0.1066
pull
Entries 41
Mean 31.19
Std Dev 0
pull1D
Entries 41
Mean 0.03481
Std Dev 0.9593

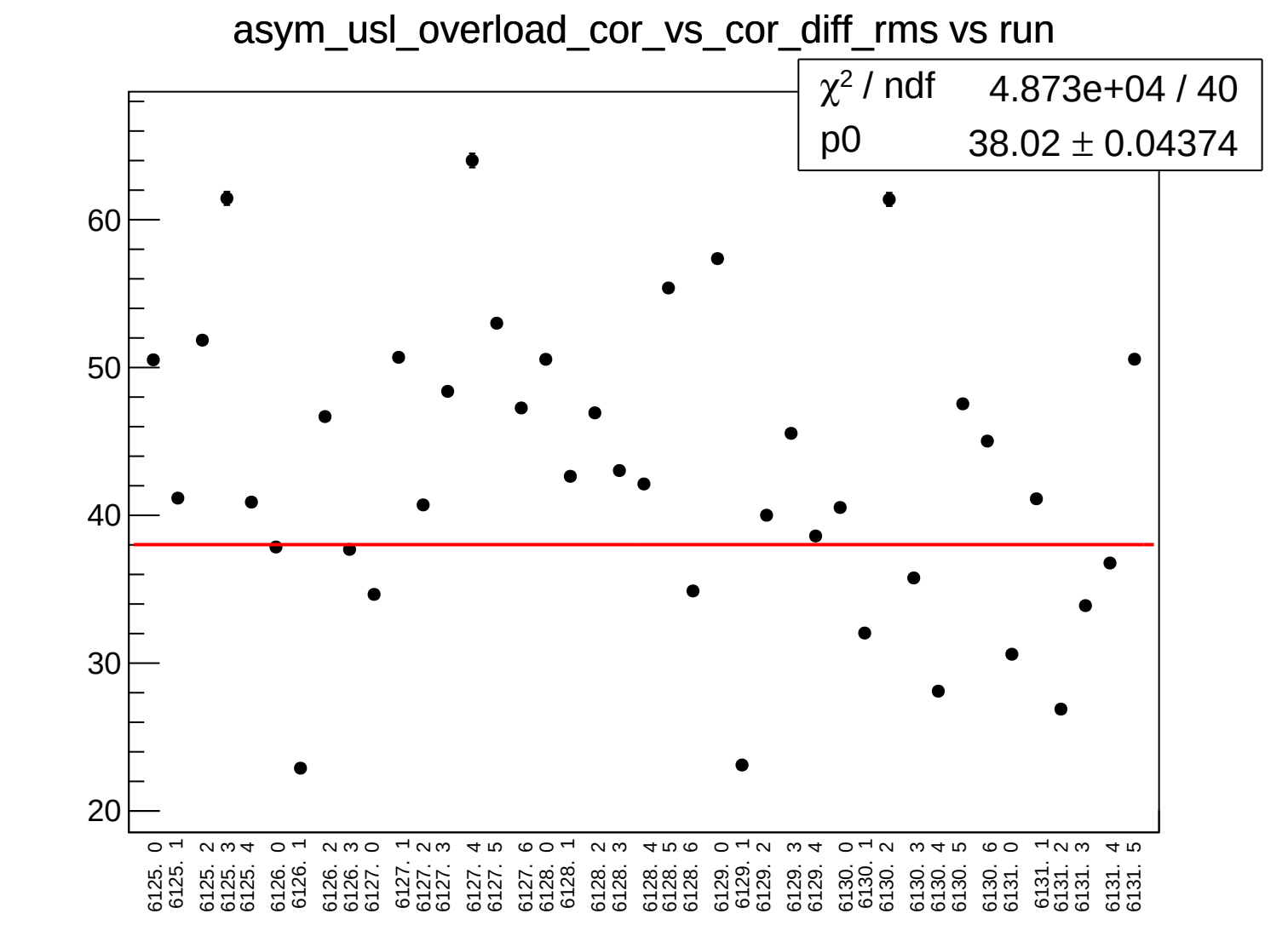

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.18e+04 / 40
p0 66.65 ± 0.07535
100
90
80
70
60
50
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

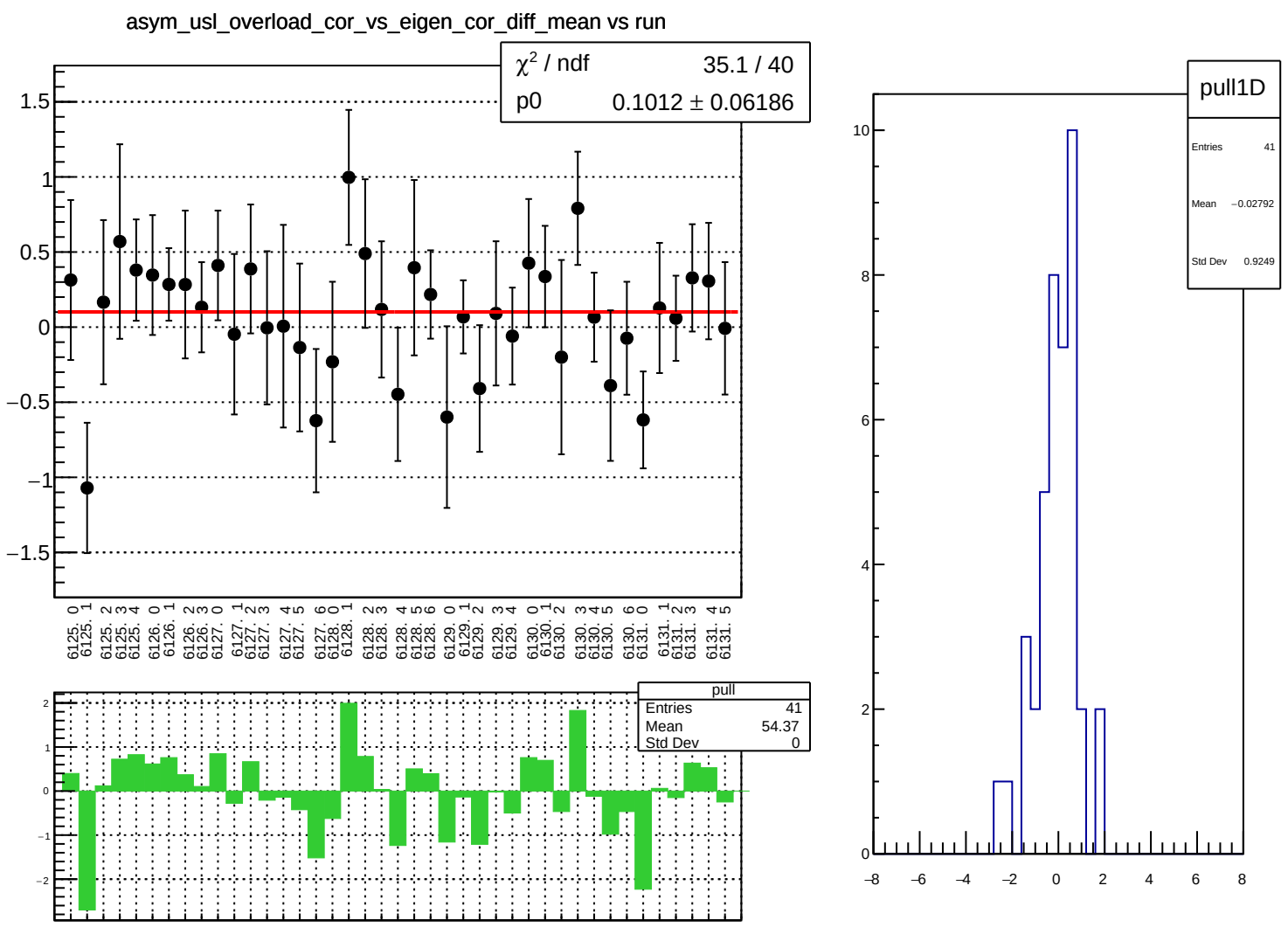

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.16 / 40
p0 −7.554e−15 ± 2.261e−14
pull
Entries 41
Mean 25.47
Std Dev 0

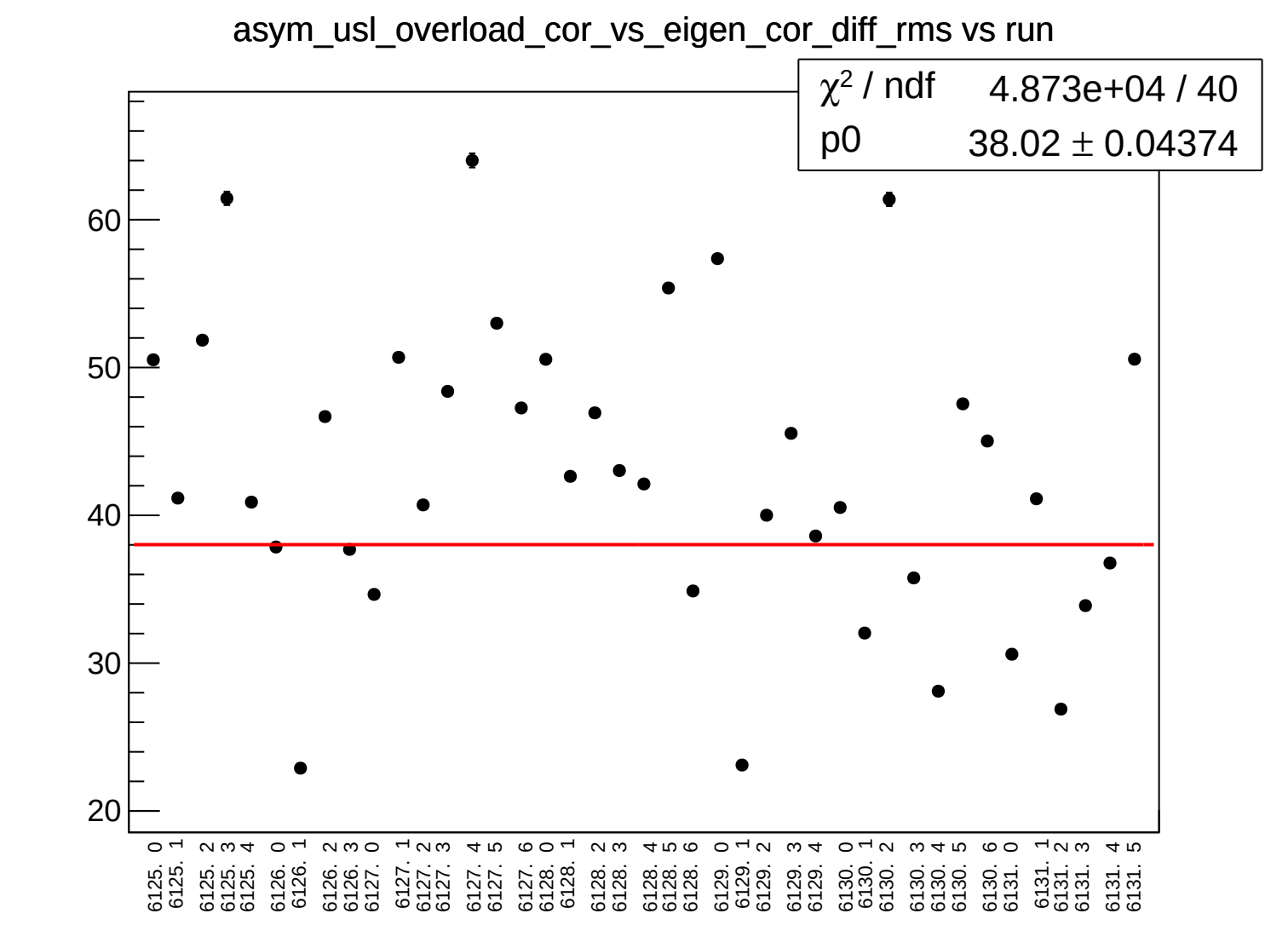

pull1D
Entries 41
Mean −0.1043
Std Dev 0.8933

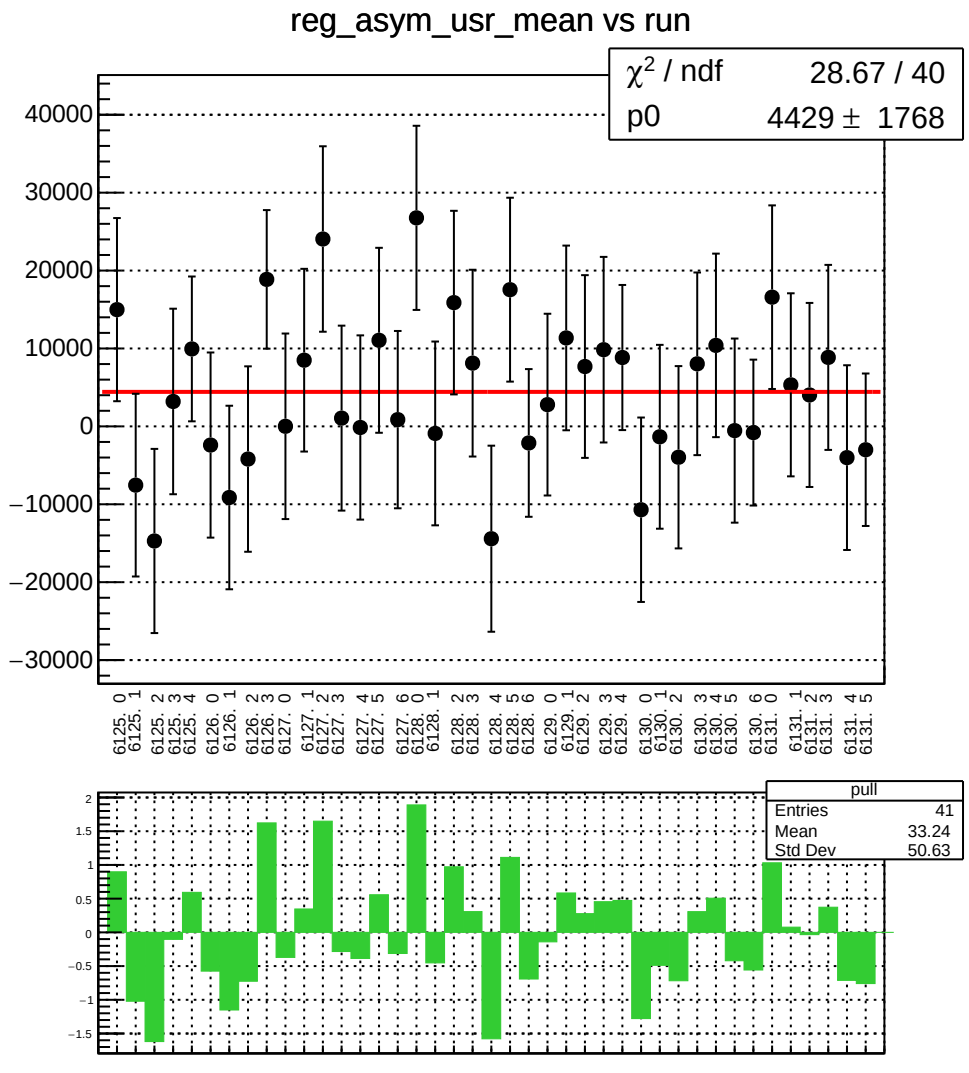

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.197e+05 / 40
p0 8.529e−12 ± 1.599e−14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

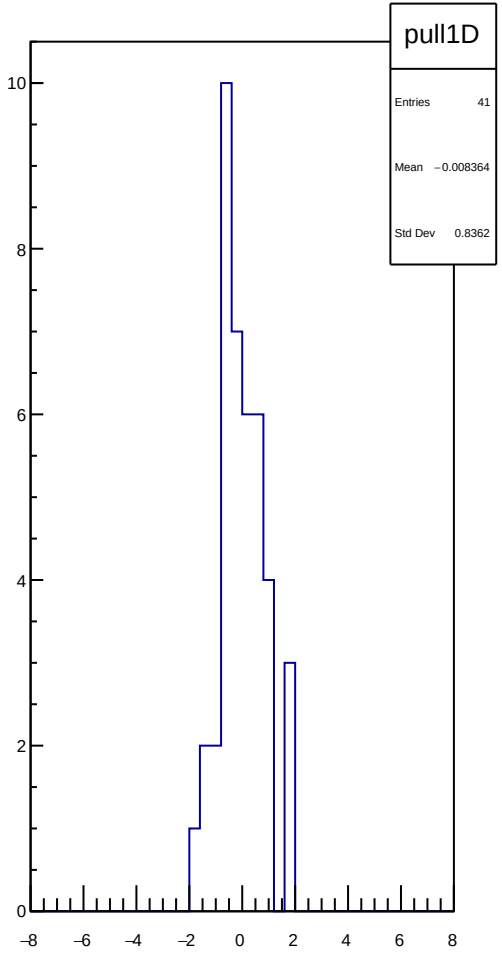

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 35.1 / 40
p0 0.1012 ± 0.06186
pull
Entries 41
Mean 54.37
Std Dev 0
pull1D
Entries 41
Mean −0.02792
Std Dev 0.9249

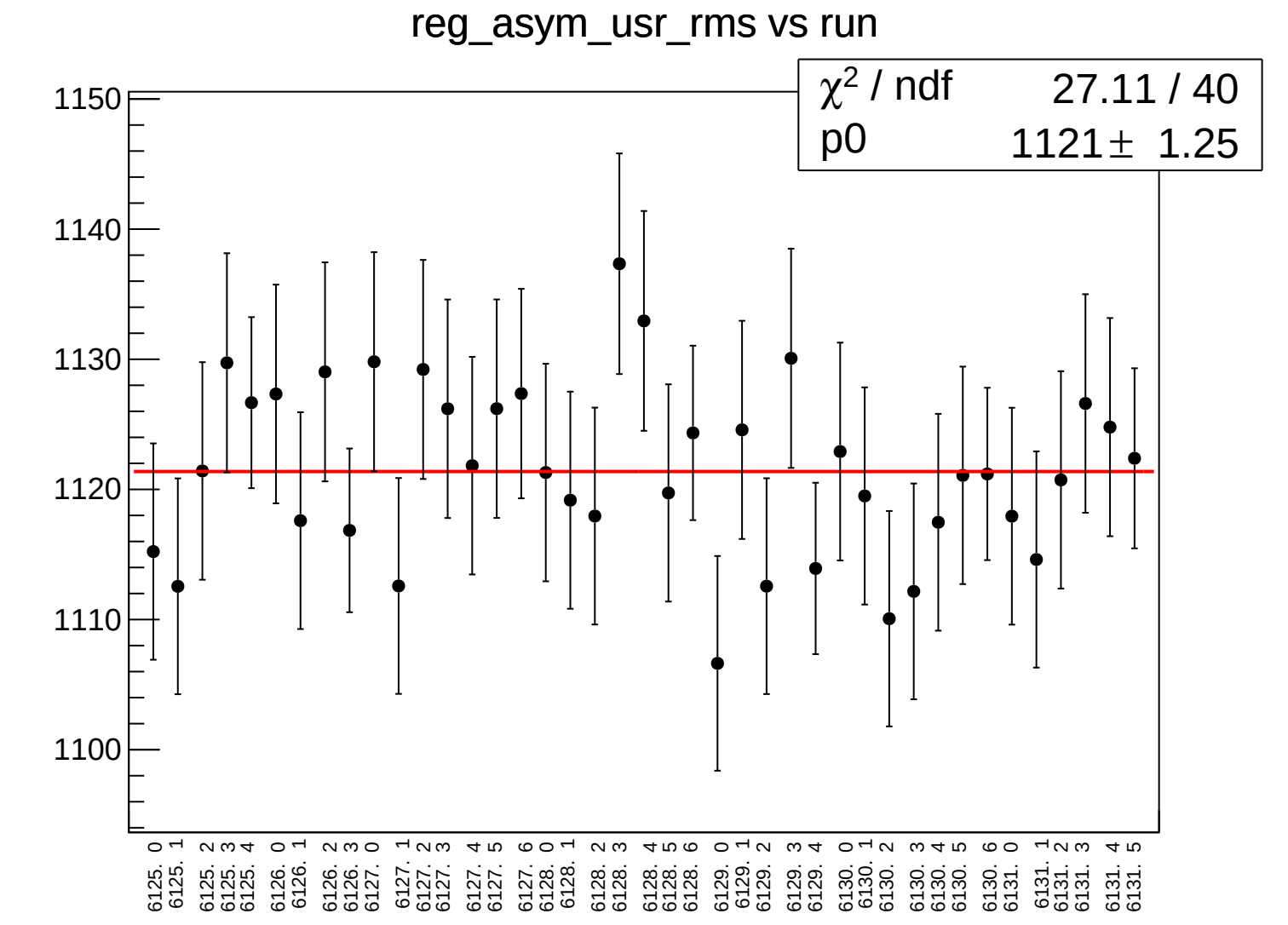

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 4.873e+04 / 40
p0 38.02 ± 0.04374
60
50
40
30
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

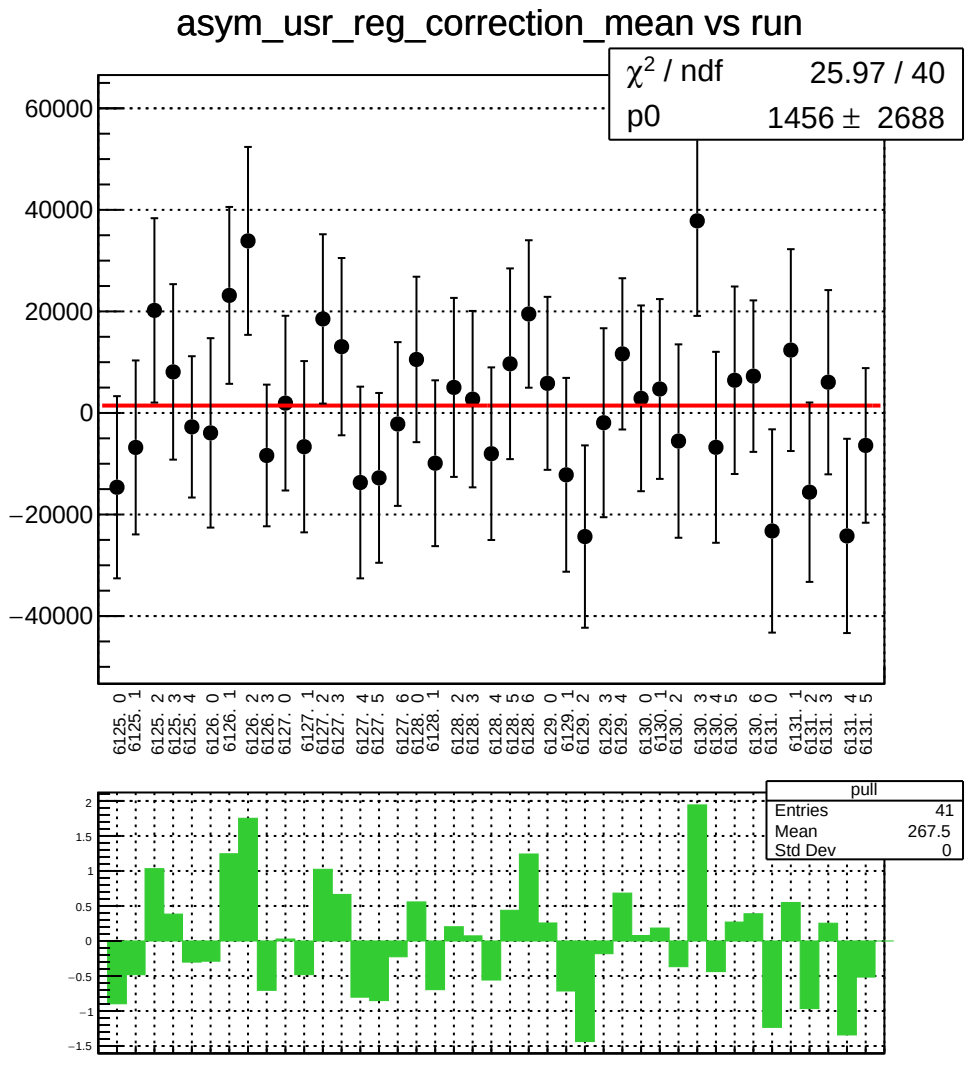

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.1 / 40
p0 0.1012 ± 0.06186
pull
Entries 41
Mean 54.37
Std Dev 0
pull1D
Entries 41
Mean −0.02792
Std Dev 0.9249

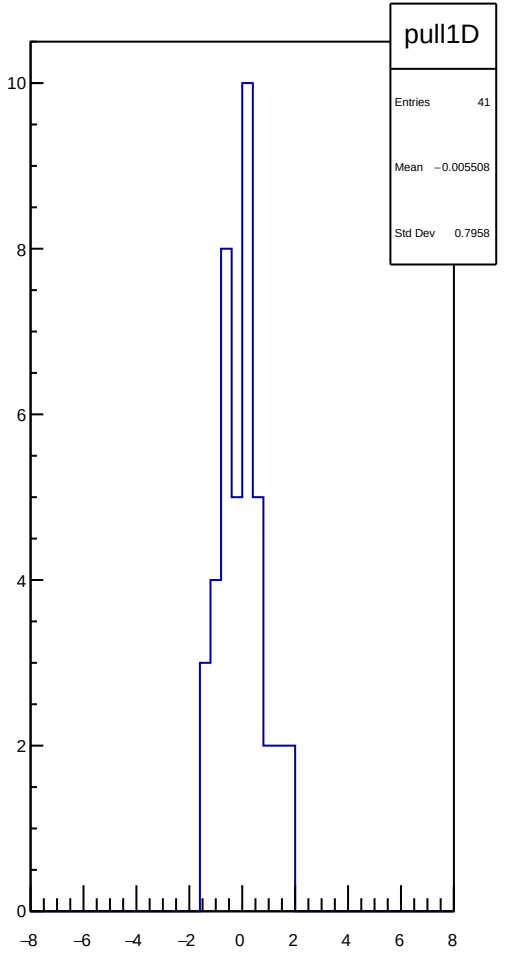

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.873e+04 / 40
p0 38.02 ± 0.04374
60
50
40
30
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

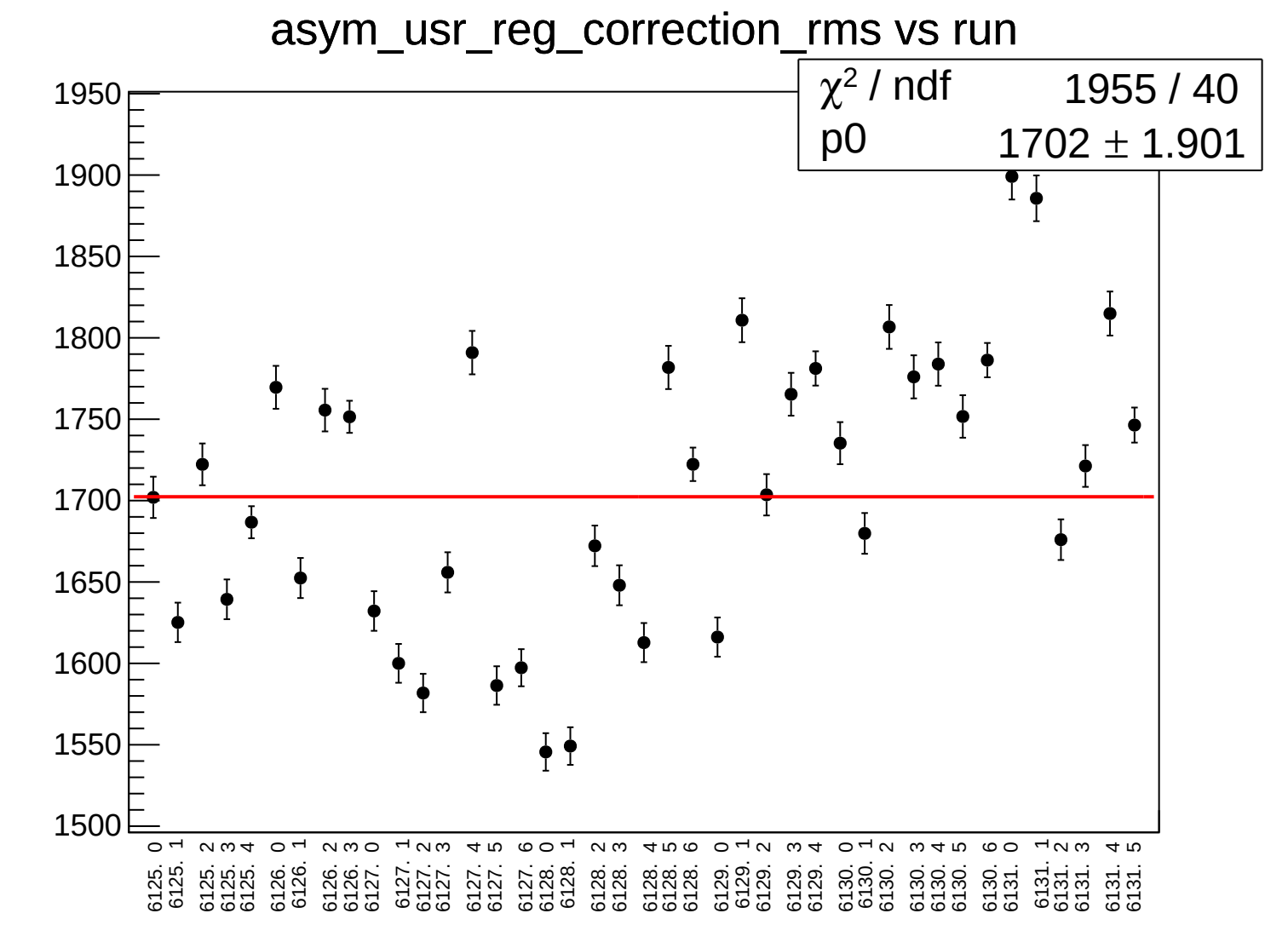

reg_asym_usr_mean vs run
χ² / ndf 28.67 / 40
p0 4429 ± 1768
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 33.24
Std Dev 50.63
2
1.5
1
0.5
0
−0.5
−1
−1.5

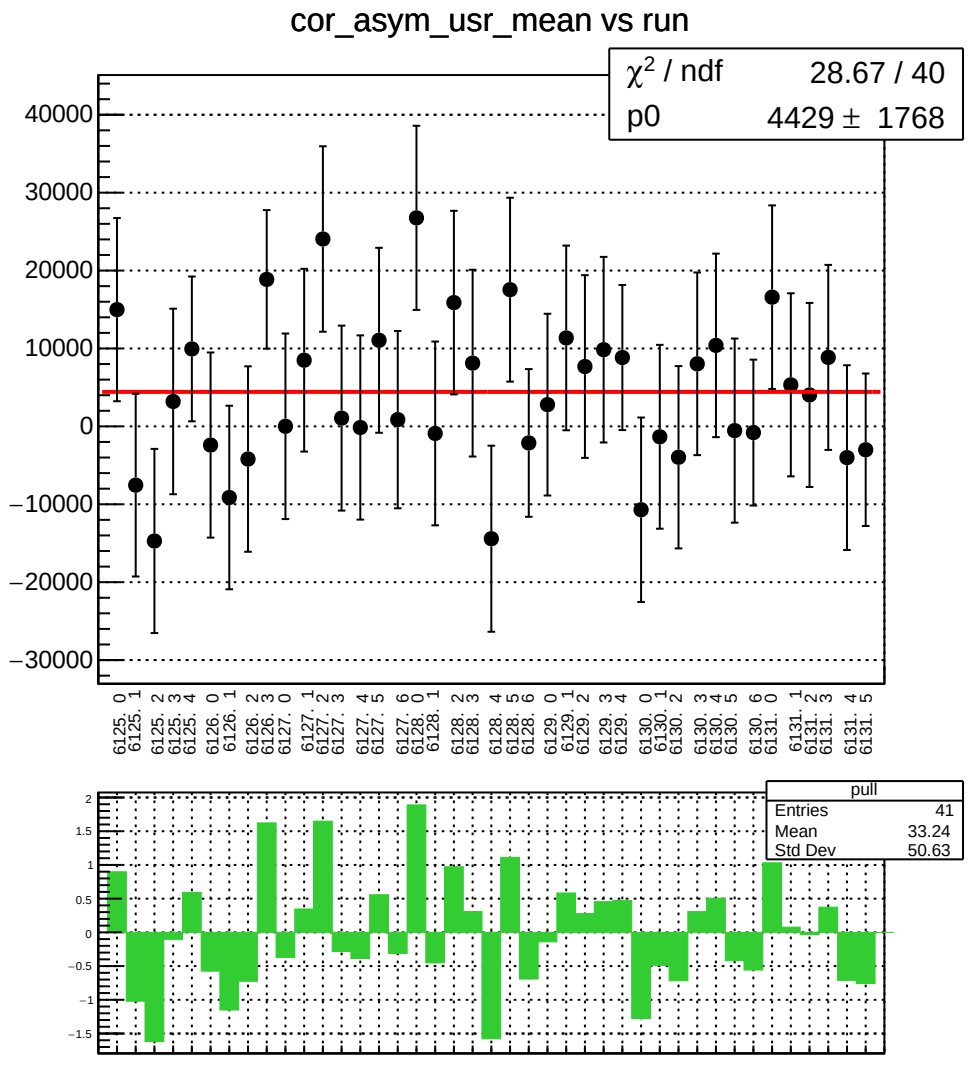

pull1D
Entries 41
Mean −0.008364
Std Dev 0.8362
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

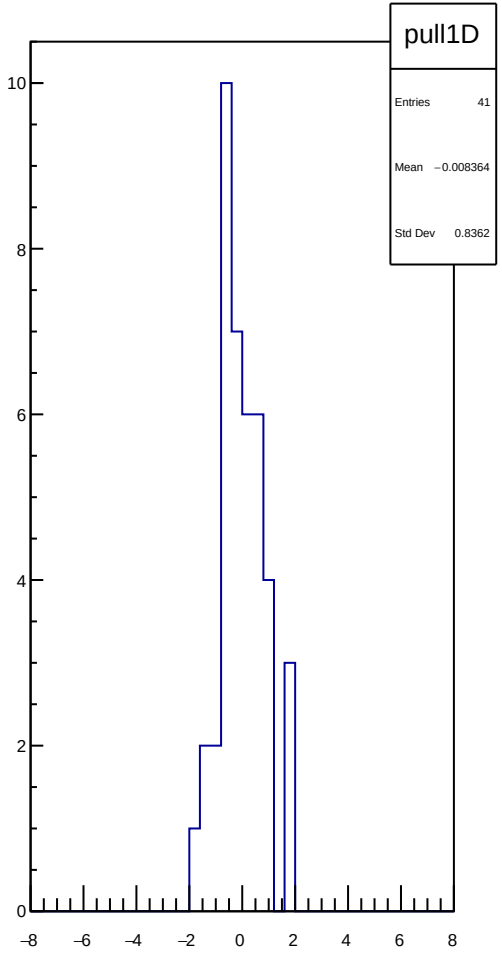

reg_asym_usr_rms vs run
χ² / ndf 27.11 / 40
p0 1121 ± 1.25
1150
1140
1130
1120
1110
1100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

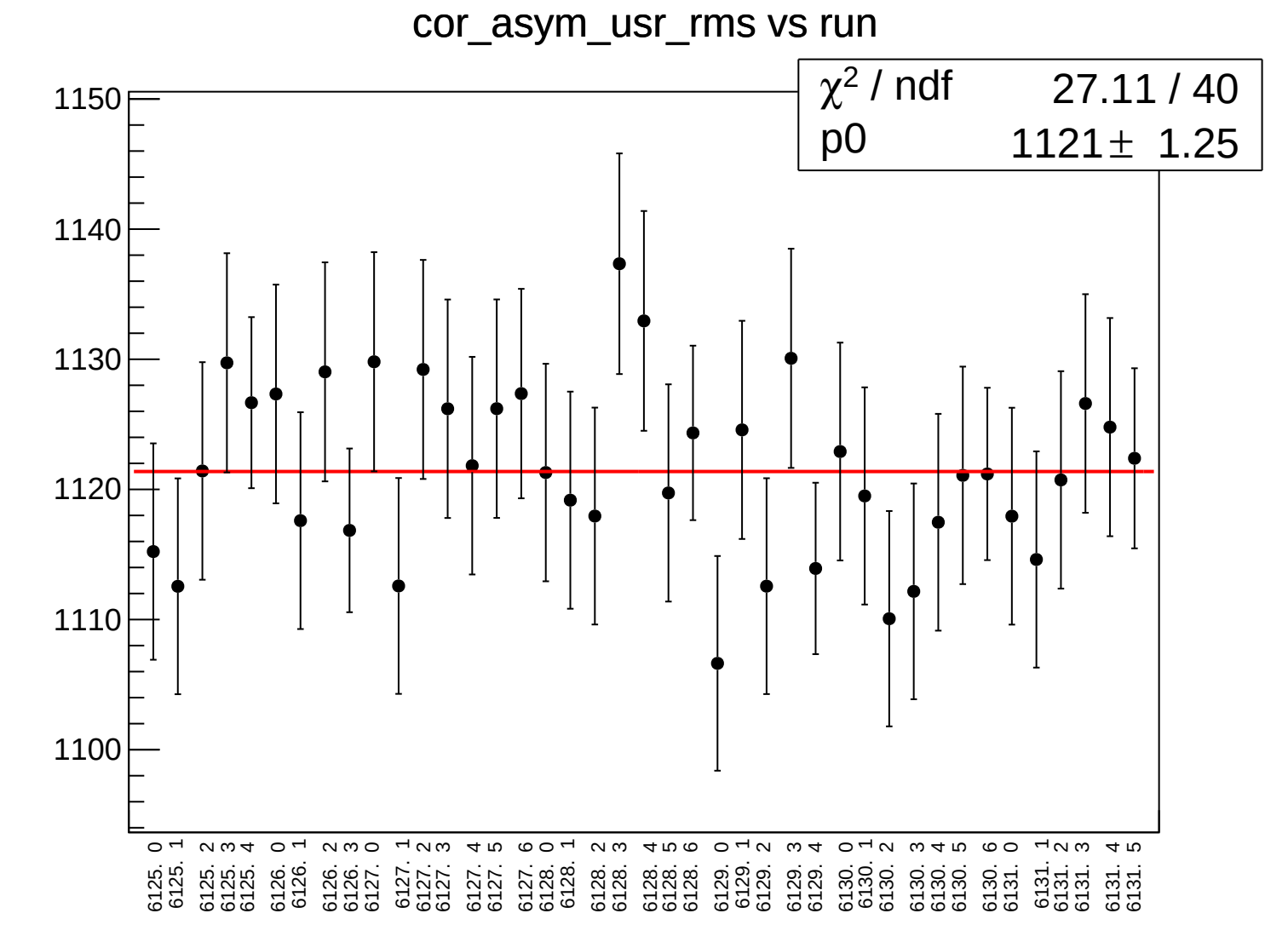

asym_usr_reg_correction_mean vs run
χ² / ndf 25.97 / 40
p0 1456 ± 2688
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 267.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

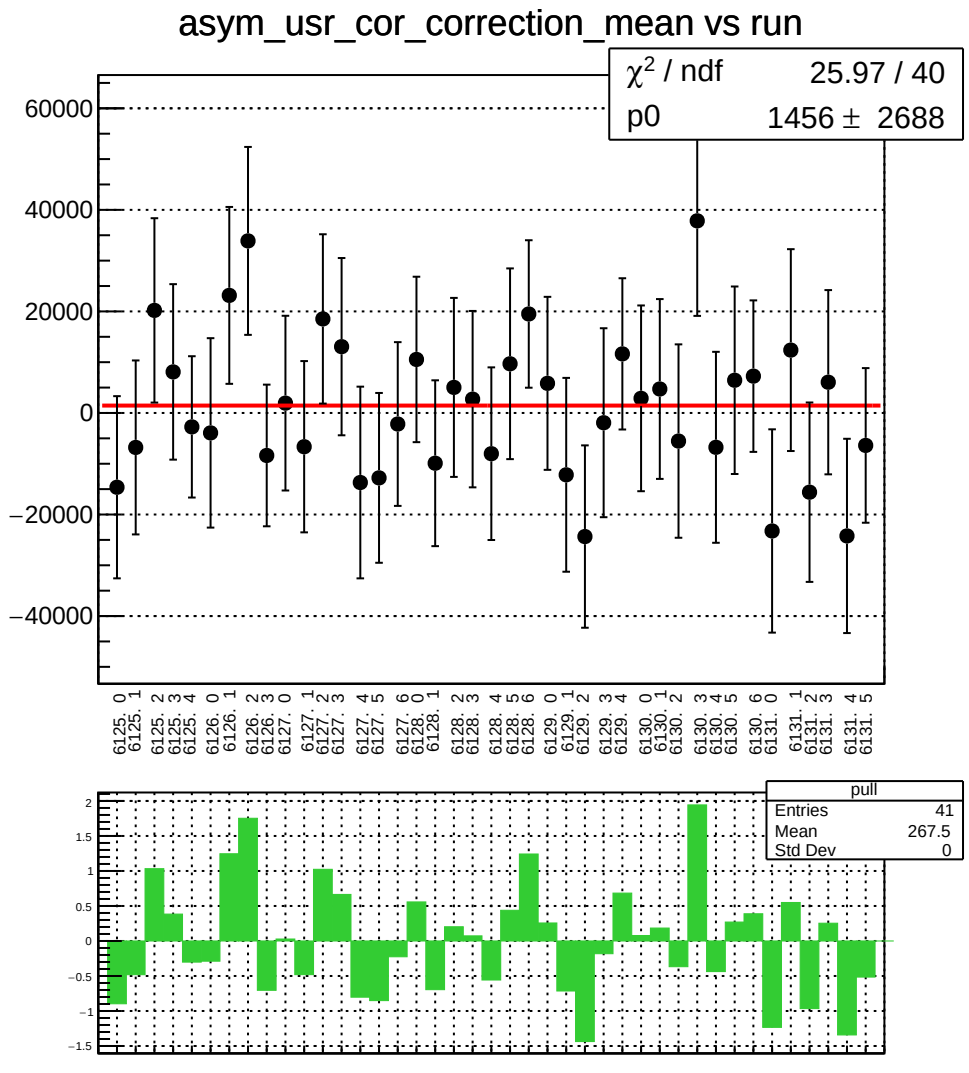

pull1D
Entries 41
Mean −0.005508
Std Dev 0.7958
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

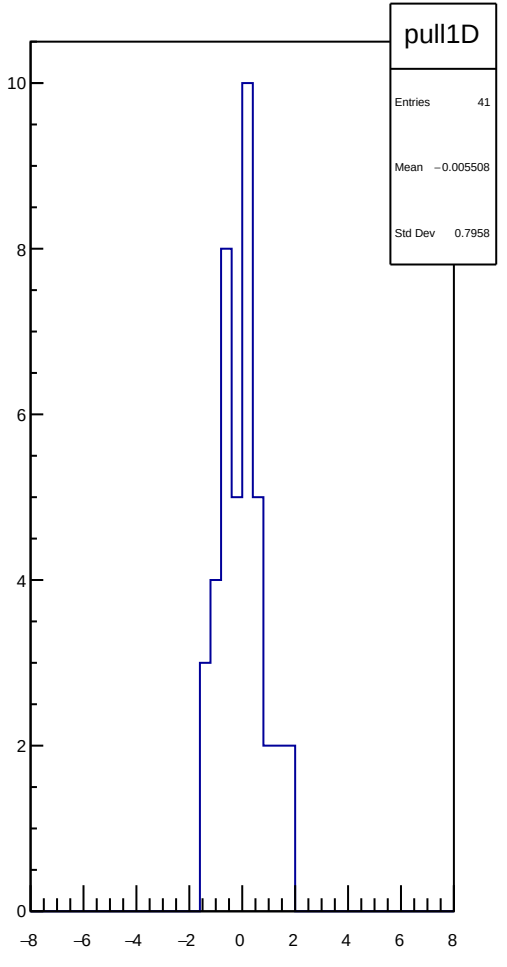

asym_usr_reg_correction_rms vs run
χ² / ndf 1955 / 40
p0 1702 ± 1.901
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

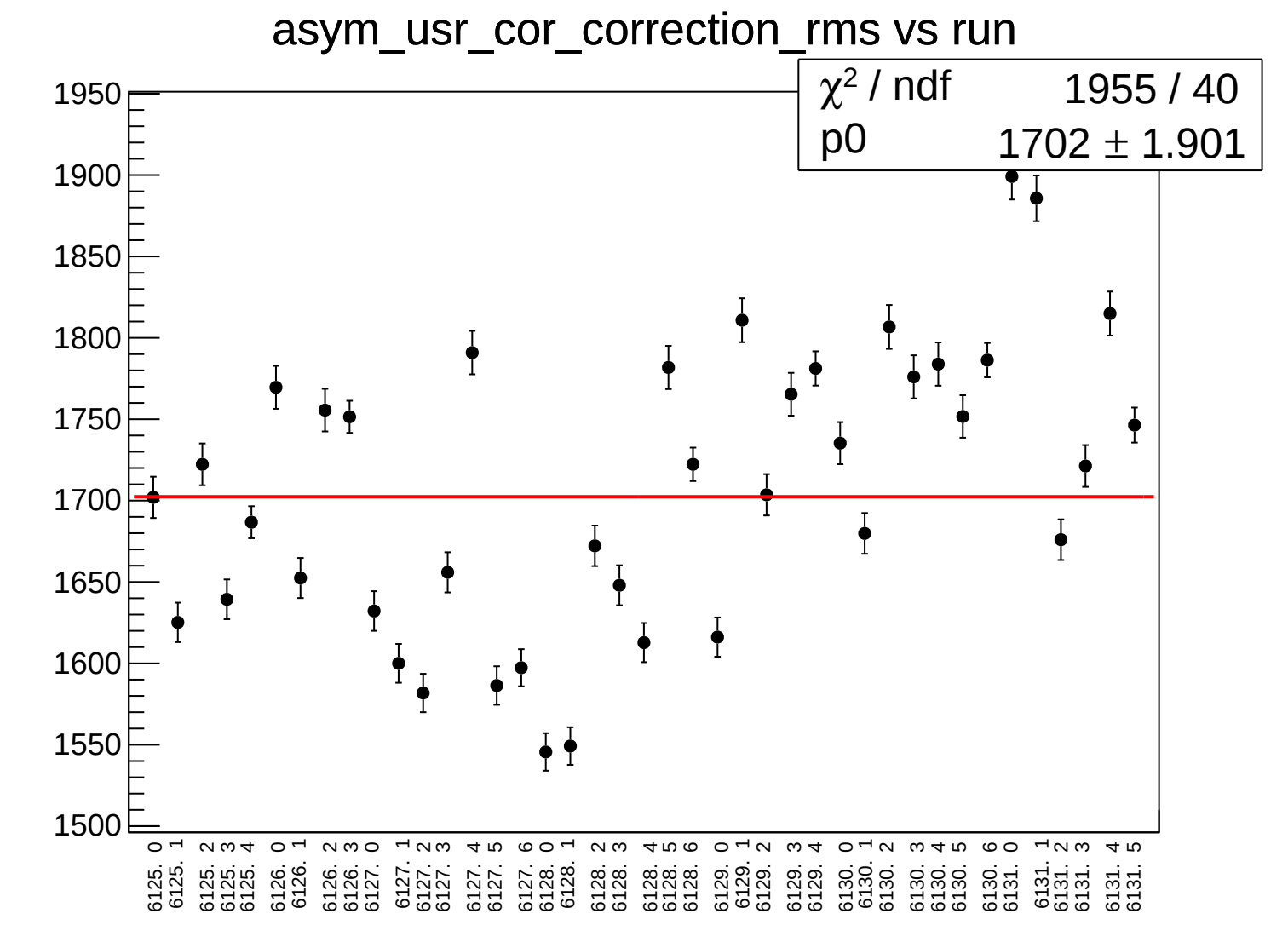

cor_asym_usr_mean vs run
χ² / ndf 28.67 / 40
p0 4429 ± 1768
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 33.24
Std Dev 50.63
2
1.5
1
0.5
0
−0.5
−1
−1.5

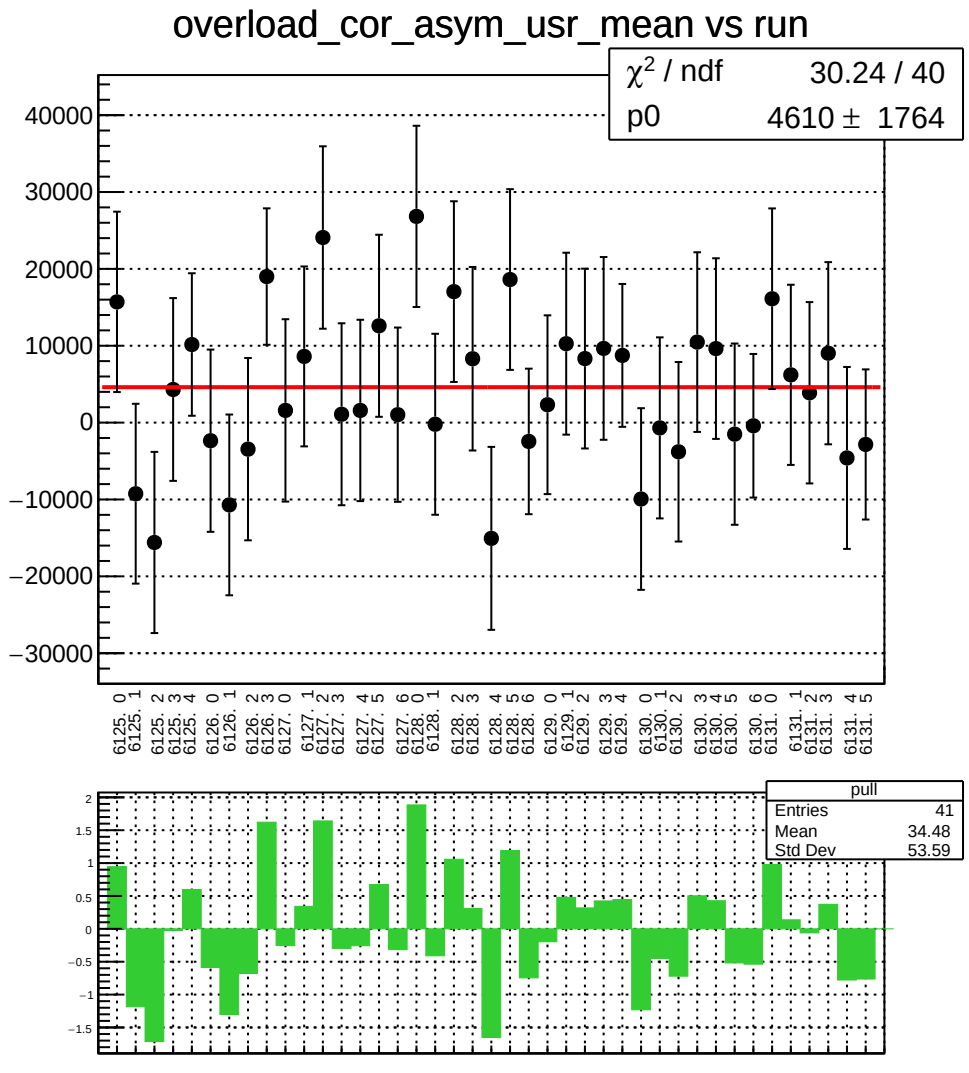

pull1D
Entries 41
Mean −0.008364
Std Dev 0.8362
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

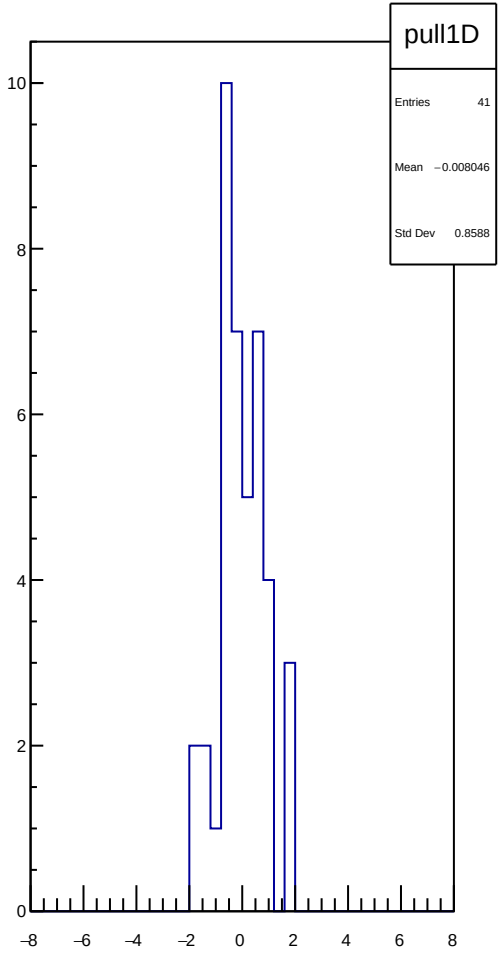

cor_asym_usr_rms vs run
χ² / ndf 27.11 / 40
p0 1121 ± 1.25
1150
1140
1130
1120
1110
1100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

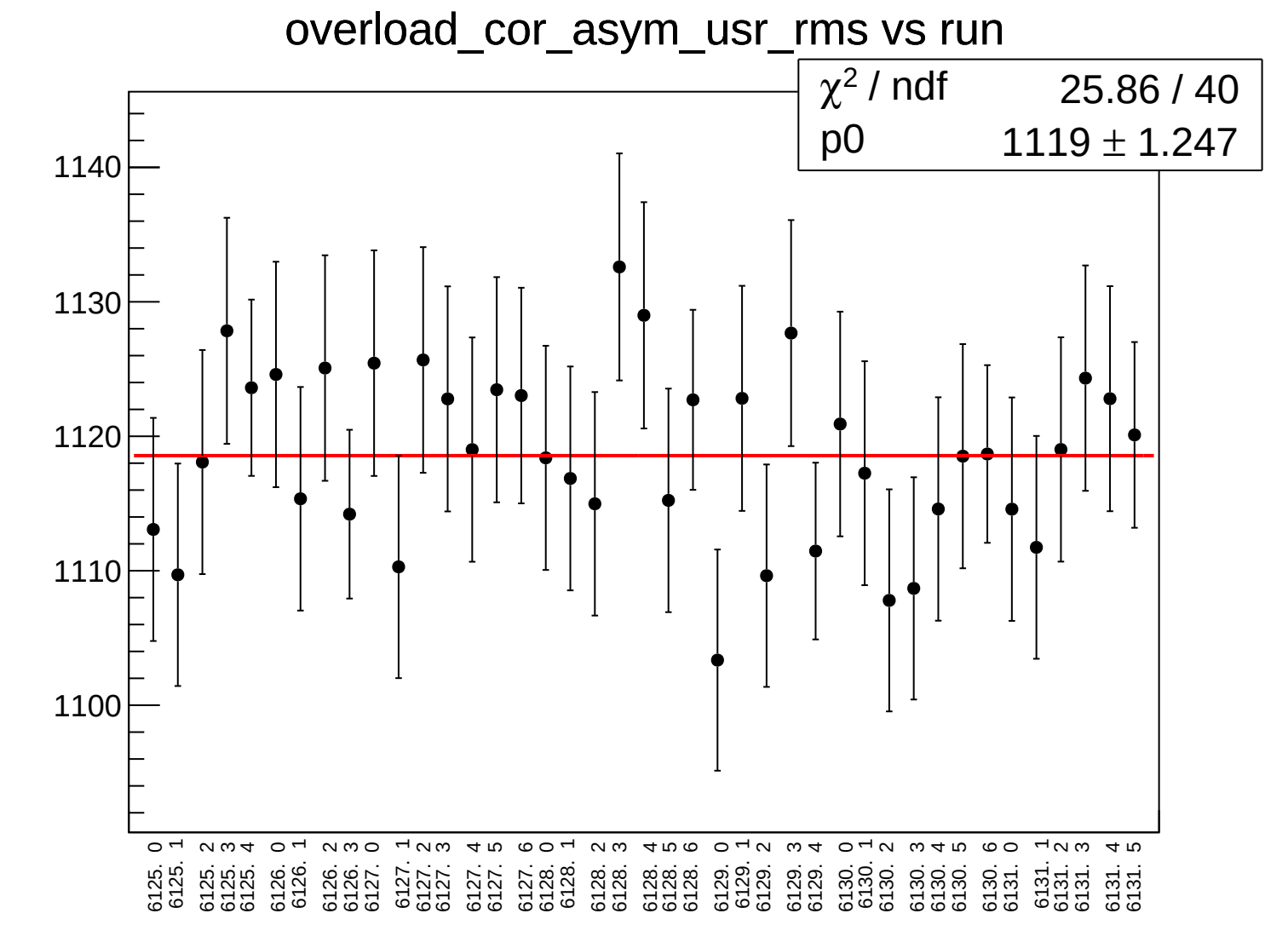

asym_usr_cor_correction_mean vs run
χ² / ndf 25.97 / 40
p0 1456 ± 2688
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 267.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

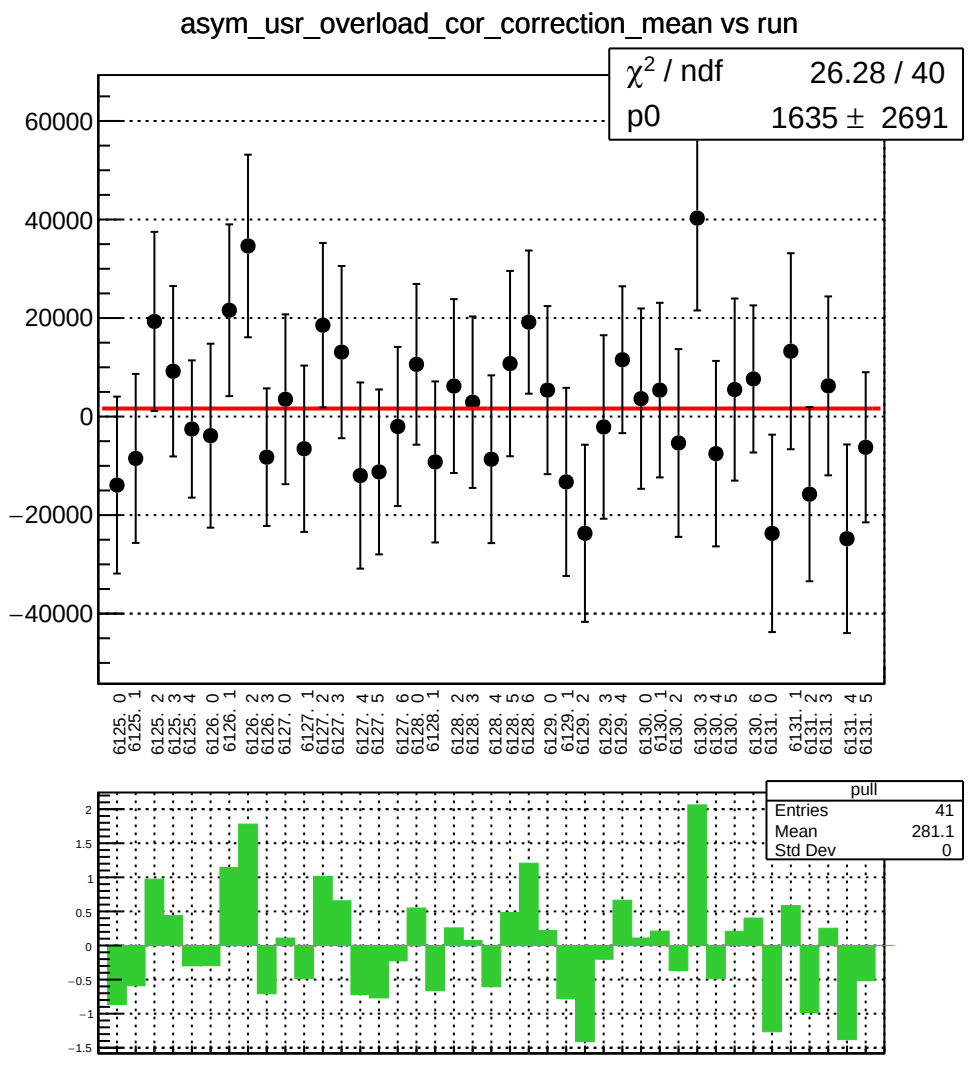

pull1D
Entries 41
Mean −0.005508
Std Dev 0.7958
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

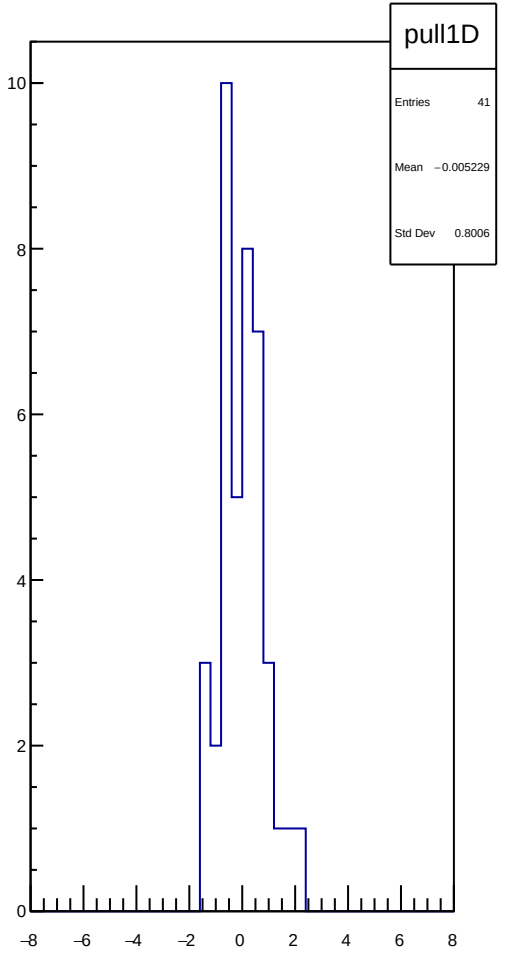

asym_usr_cor_correction_rms vs run
χ² / ndf 1955 / 40
p0 1702 ± 1.901
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

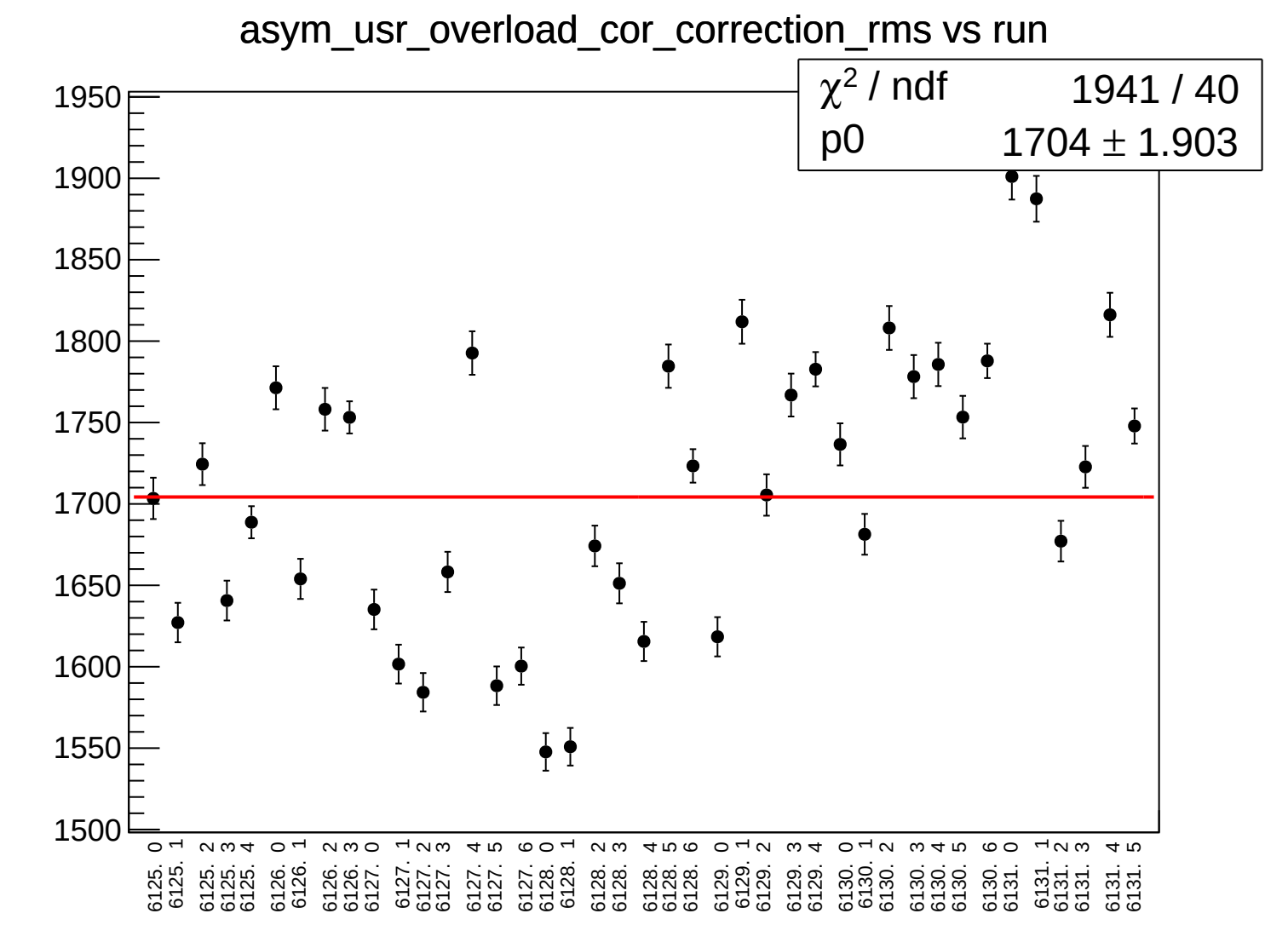

overload_cor_asym_usr_mean vs run
χ² / ndf 30.24 / 40
p0 4610 ± 1764
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 34.48
Std Dev 53.59
2
1.5
1
0.5
0
−0.5
−1
−1.5

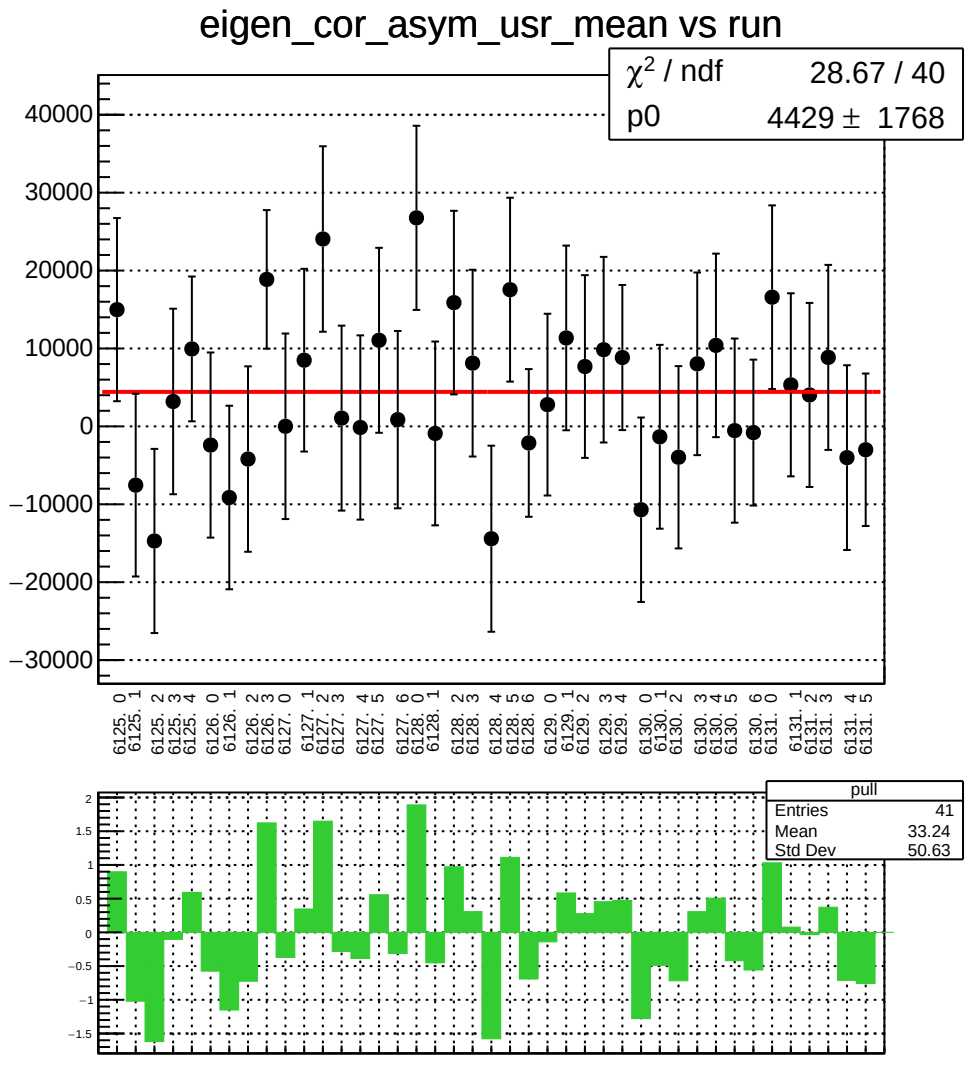

pull1D
Entries 41
Mean −0.008046
Std Dev 0.8588
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

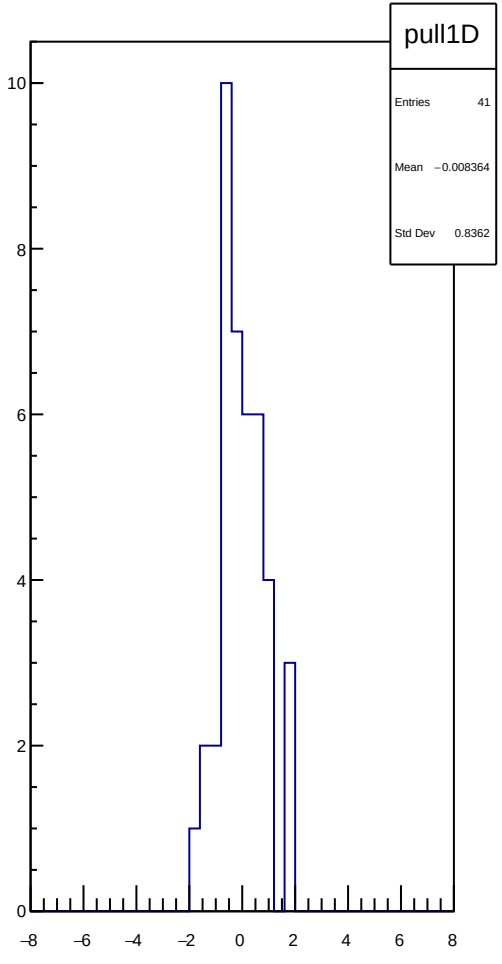

overload_cor_asym_usr_rms vs run
χ² / ndf 25.86 / 40
p0 1119 ± 1.247
1140
1130
1120
1110
1100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

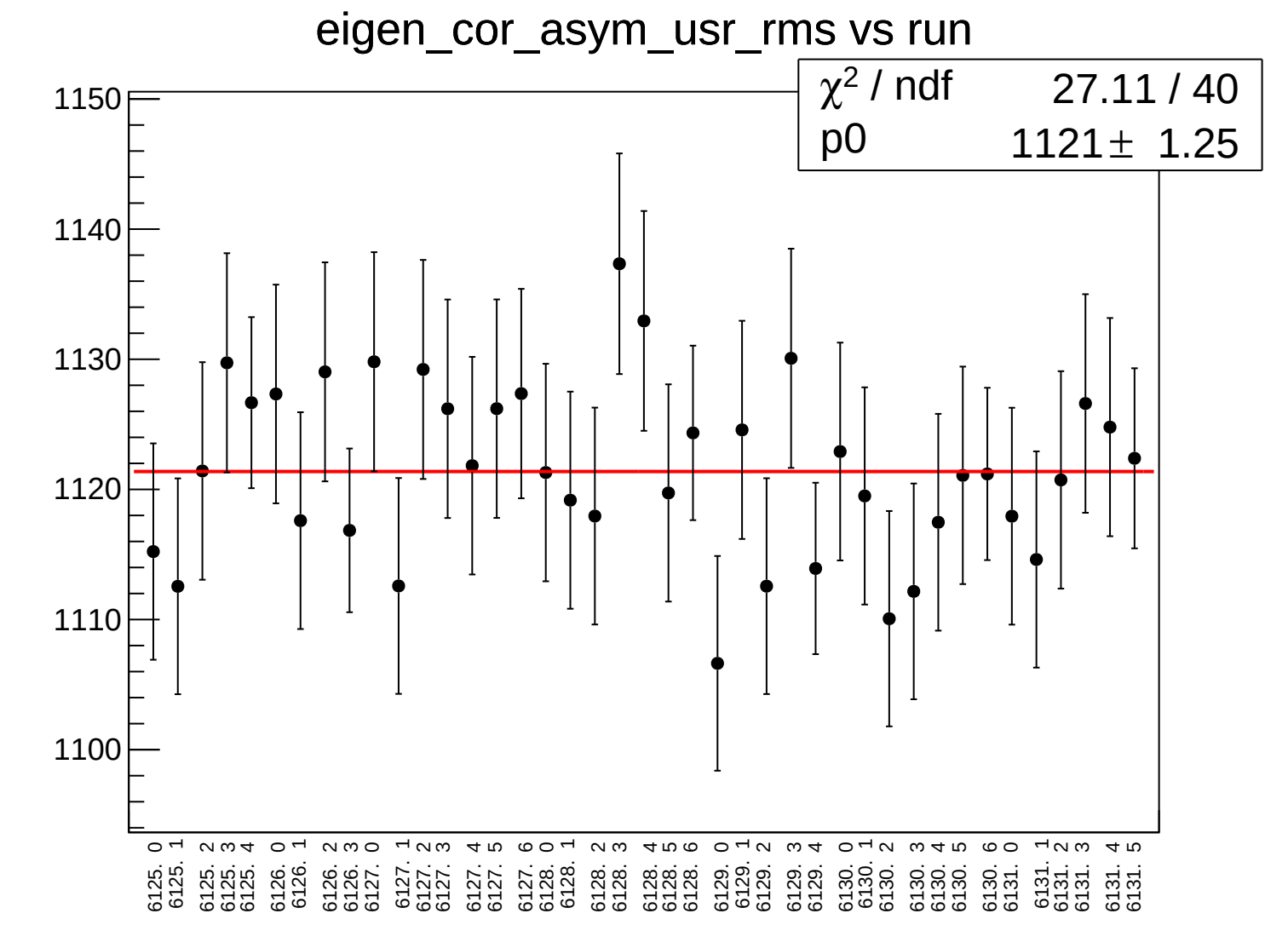

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 26.28 / 40
p0 1635 ± 2691
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 281.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

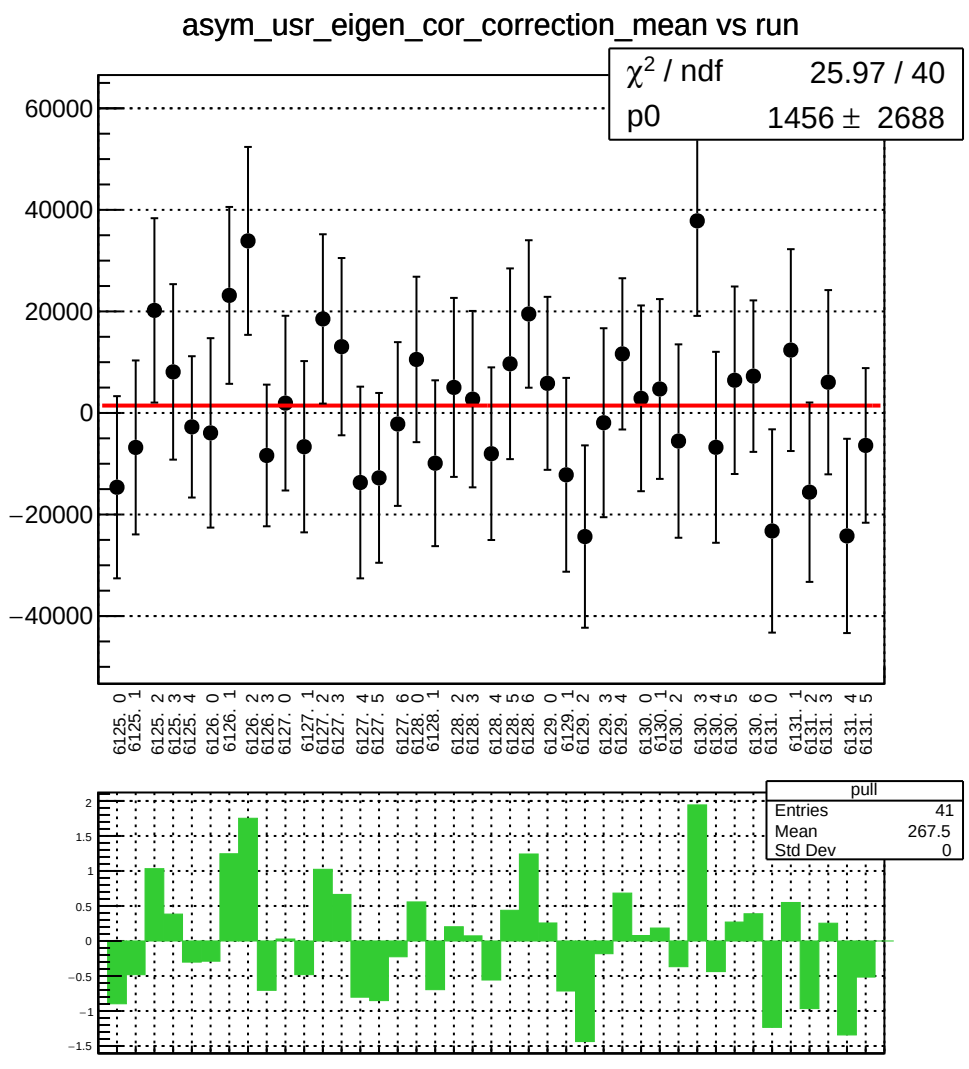

pull1D
Entries 41
Mean −0.005229
Std Dev 0.8006
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

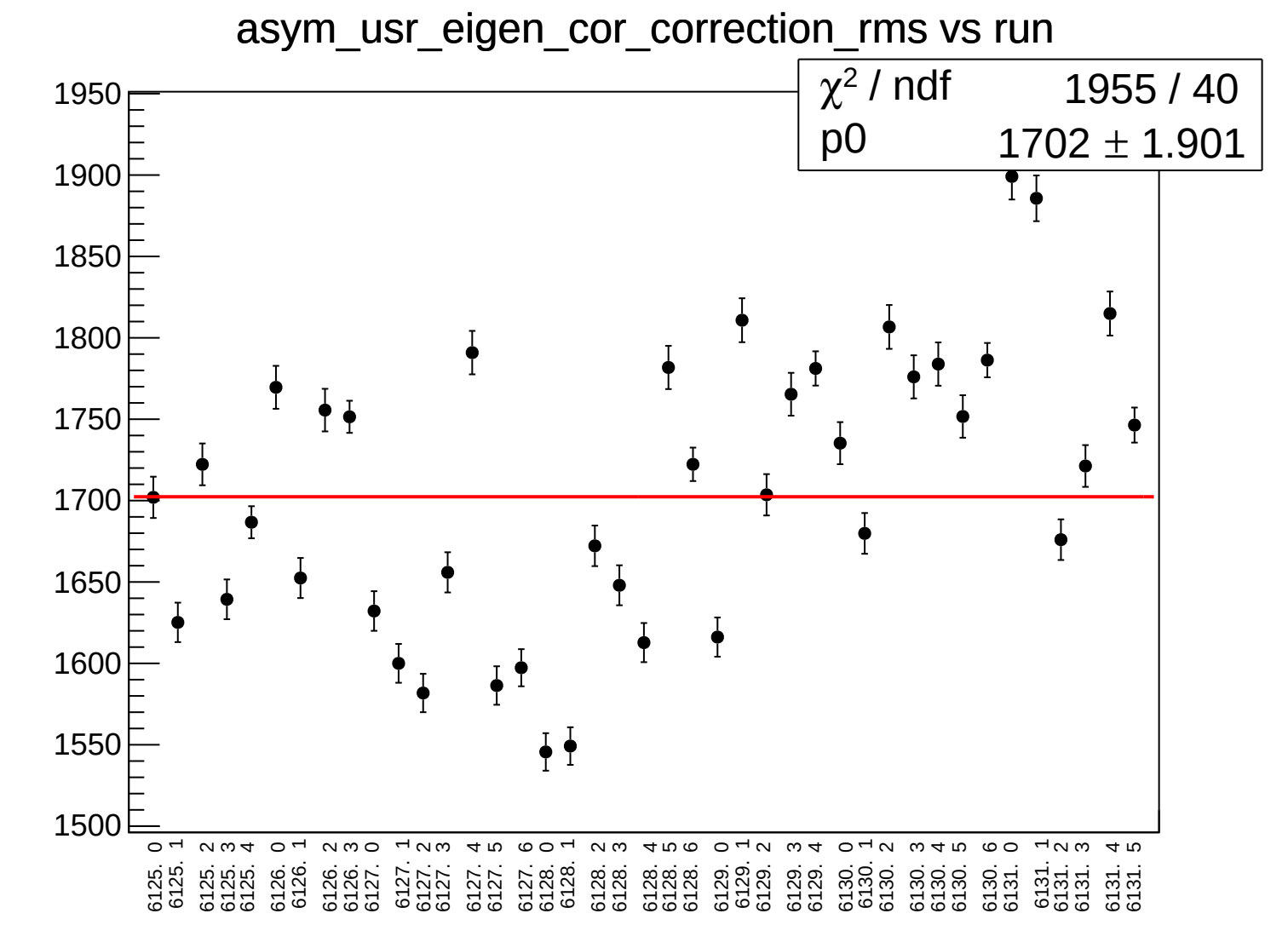

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 1941 / 40
p0 1704 ± 1.903
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

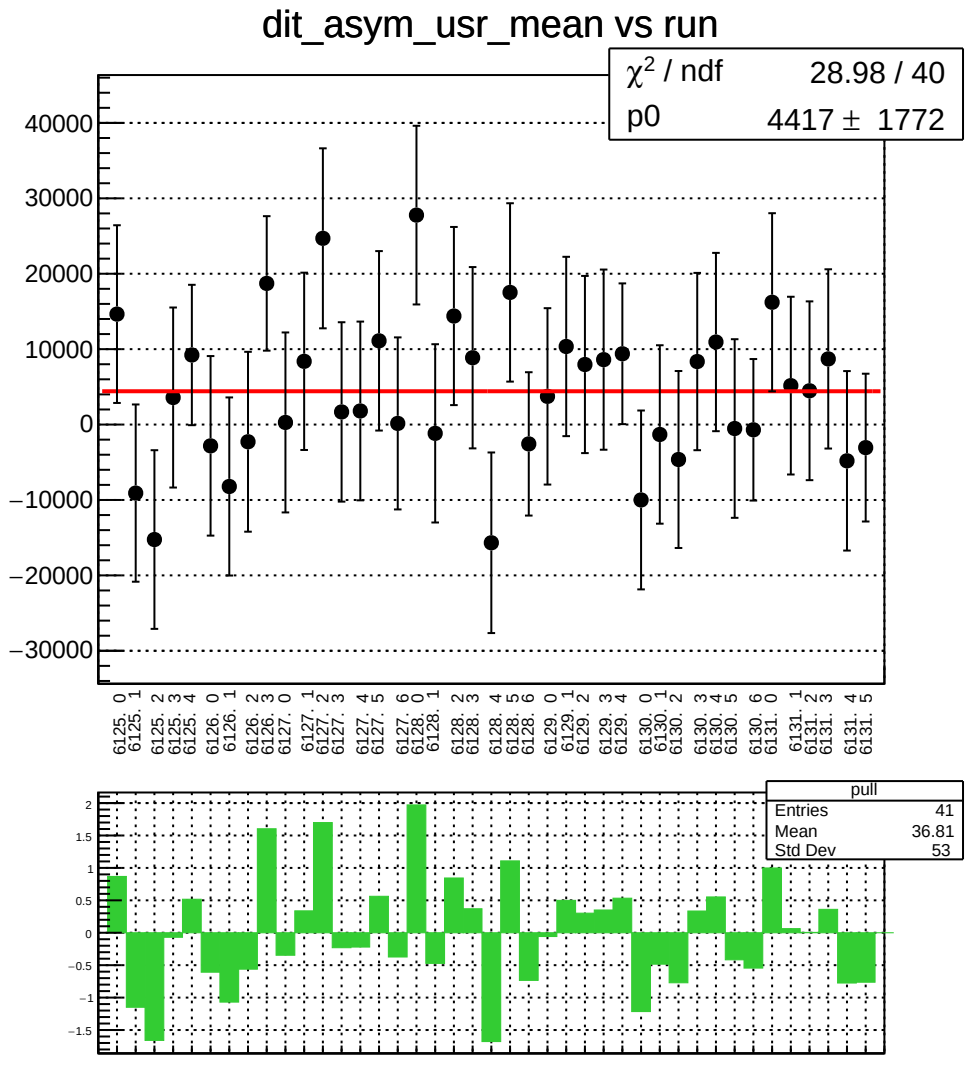

eigen_cor_asym_usr_mean vs run
χ² / ndf 28.67 / 40
p0 4429 ± 1768
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 33.24
Std Dev 50.63
2
1.5
1
0.5
0
−0.5
−1
−1.5

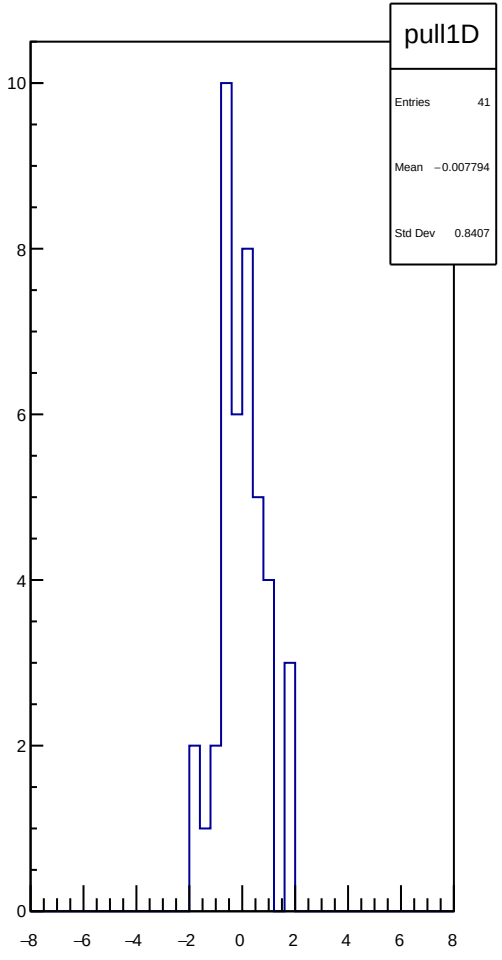

pull1D
Entries 41
Mean −0.008364
Std Dev 0.8362
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

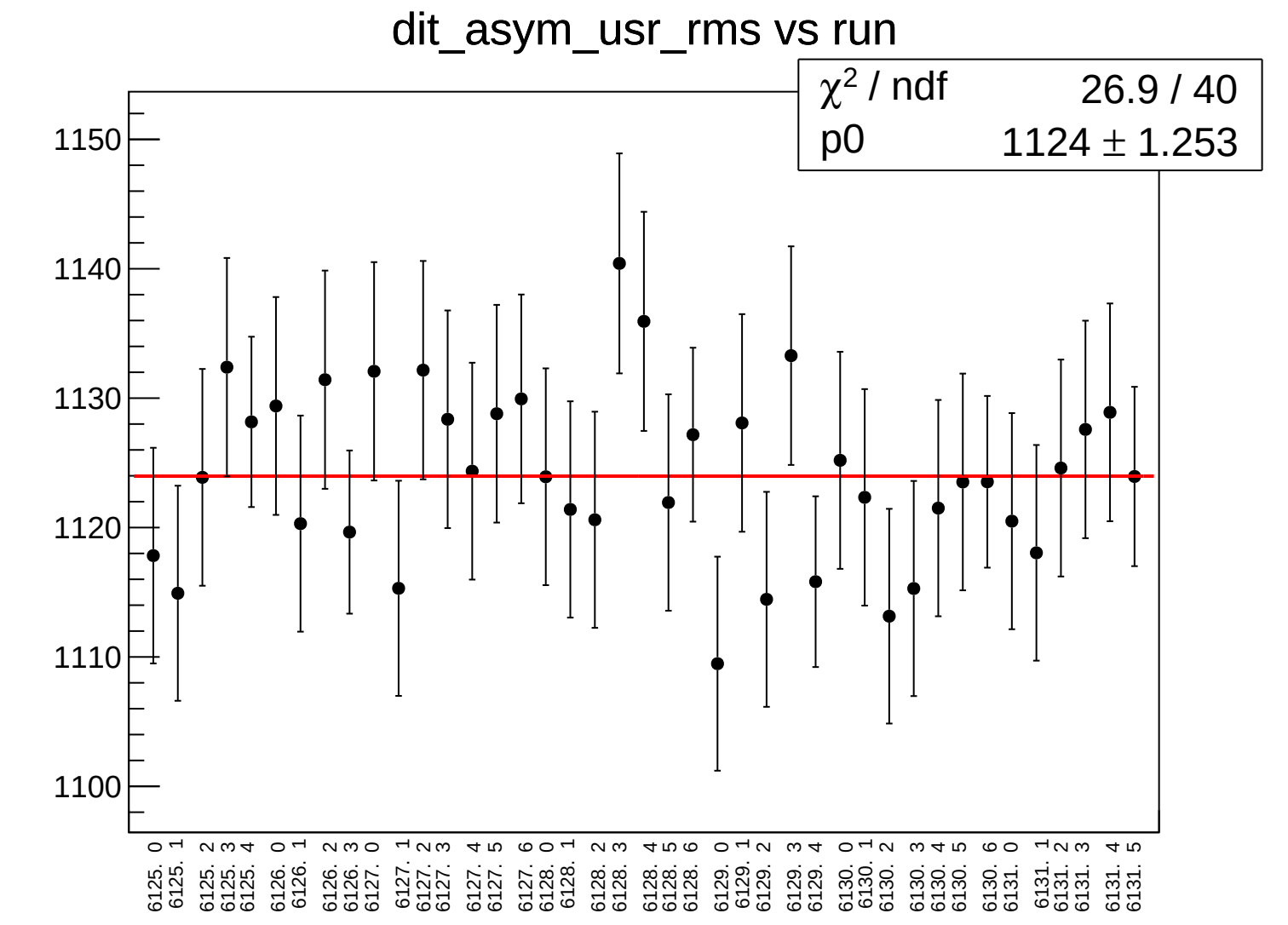

eigen_cor_asym_usr_rms vs run
χ² / ndf 27.11 / 40
p0 1121 ± 1.25
1150
1140
1130
1120
1110
1100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 25.97 / 40
p0 1456 ± 2688
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 267.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.005508
Std Dev 0.7958
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 1955 / 40
p0 1702 ± 1.901
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


dit_asym_usr_mean vs run
χ² / ndf 28.98 / 40
p0 4417 ± 1772
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 36.81
Std Dev 53
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.007794
Std Dev 0.8407
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usr_rms vs run
χ² / ndf 26.9 / 40
p0 1124 ± 1.253
1150
1140
1130
1120
1110
1100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
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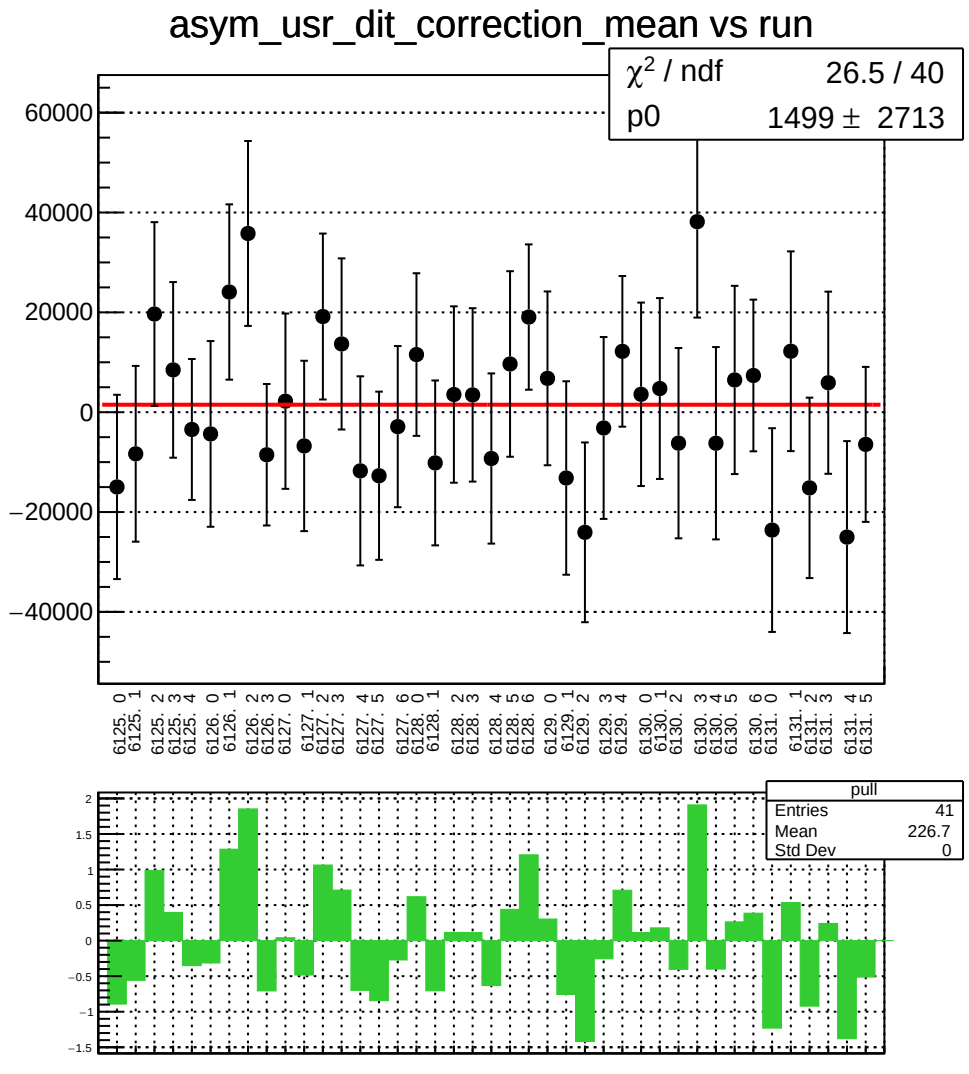
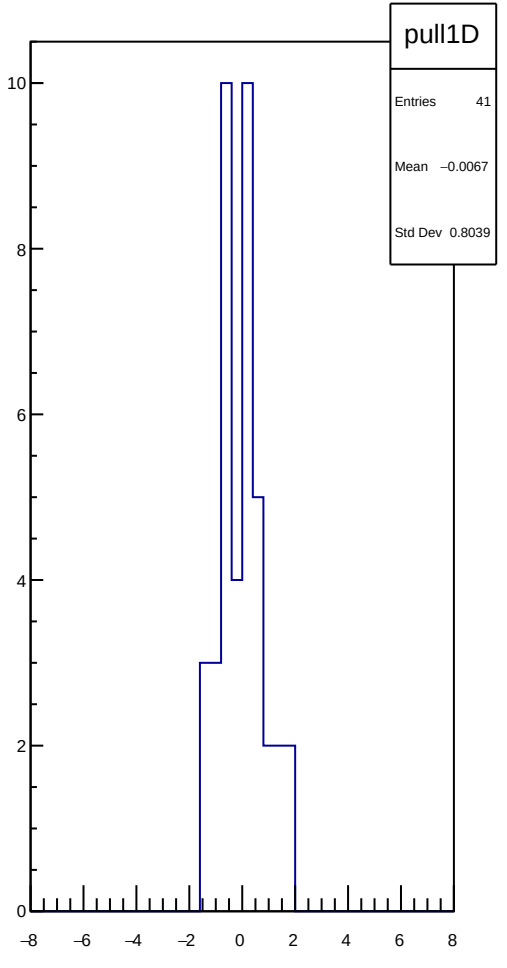
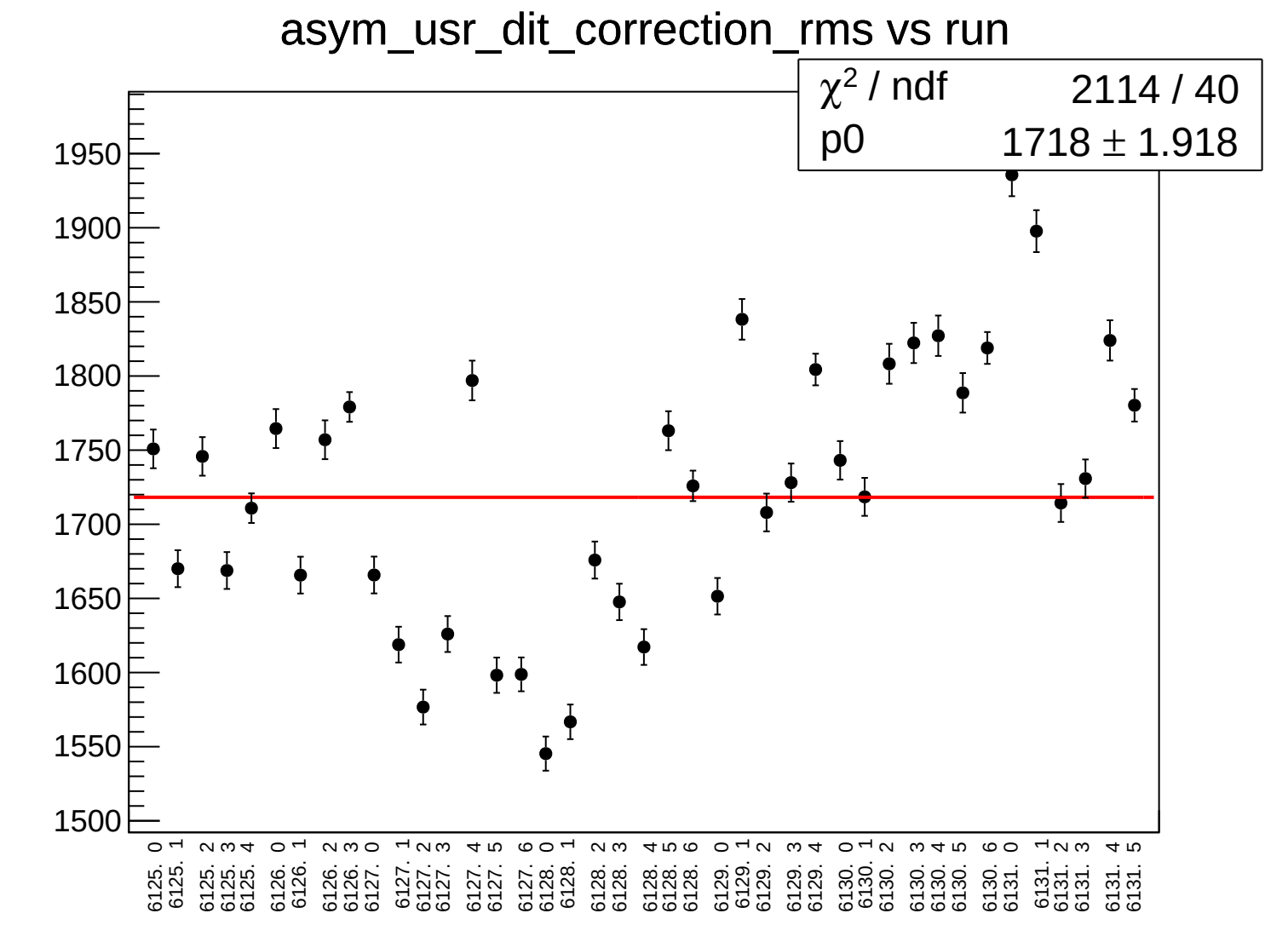
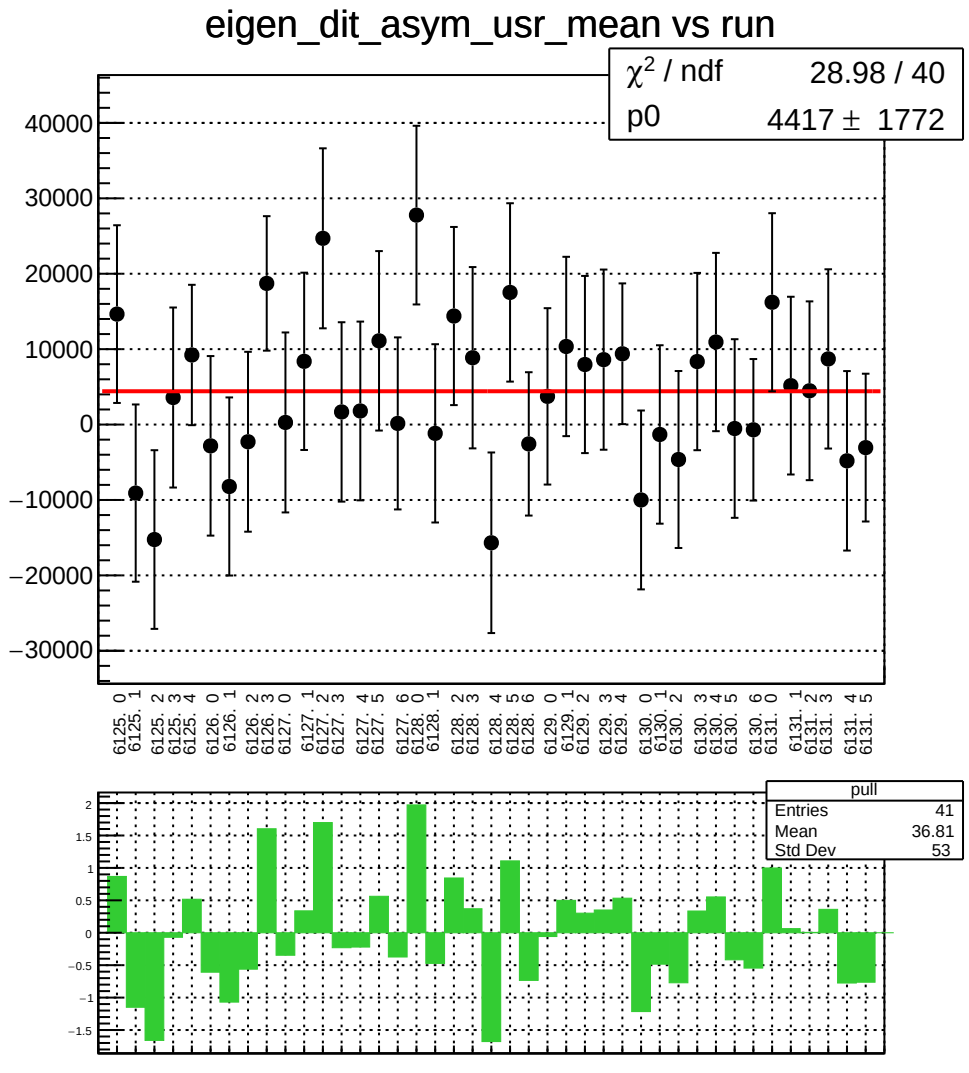
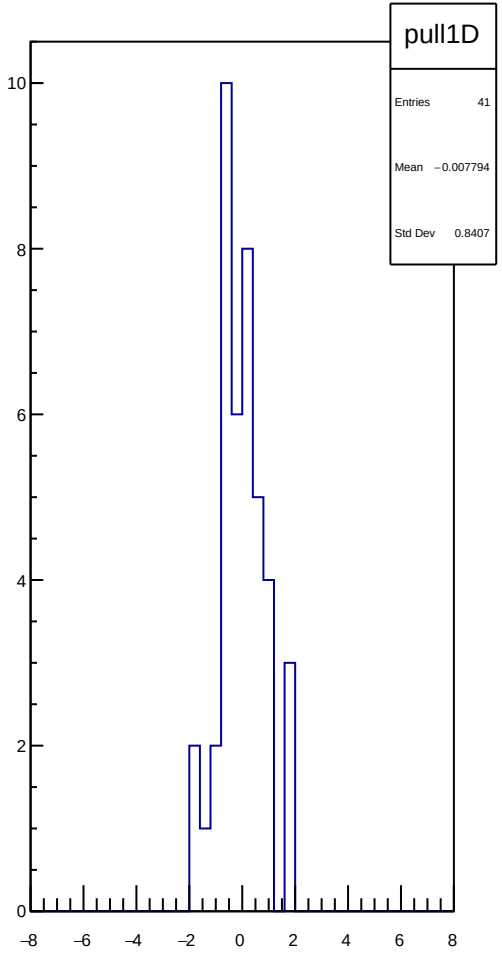
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

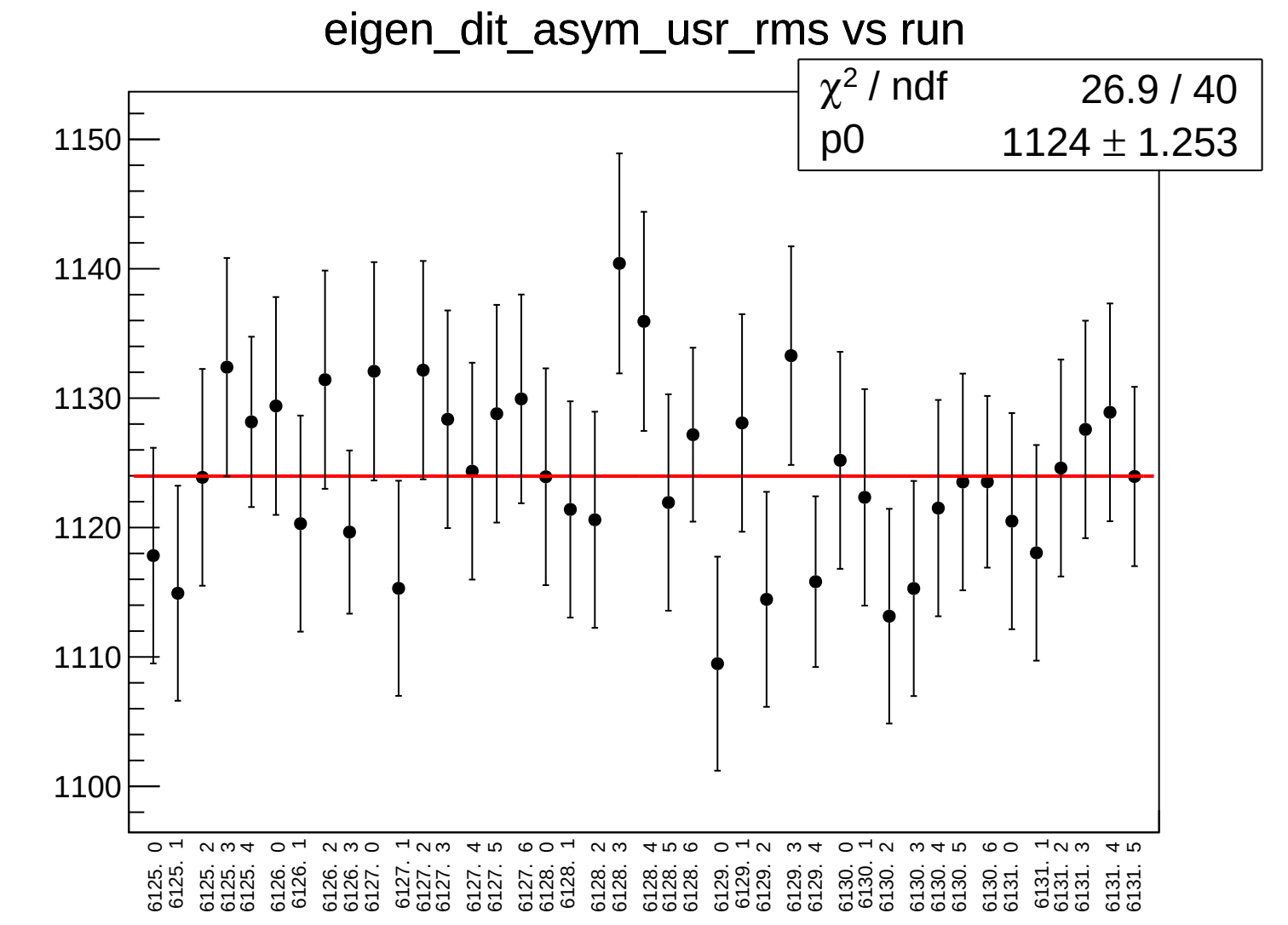

asym_usr_dit_correction_mean vs run
χ² / ndf 26.5 / 40
p0 1499 ± 2713
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 226.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

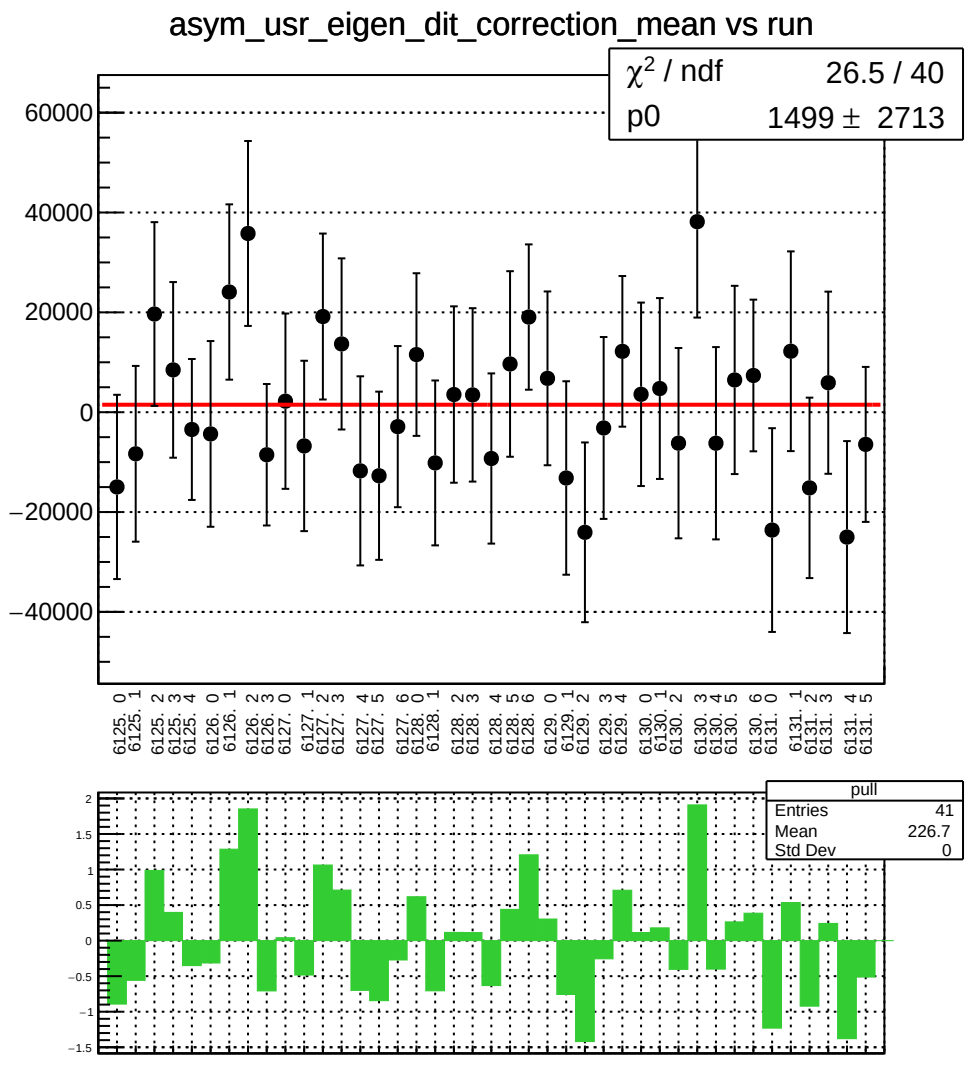

pull1D
Entries 41
Mean −0.0067
Std Dev 0.8039
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

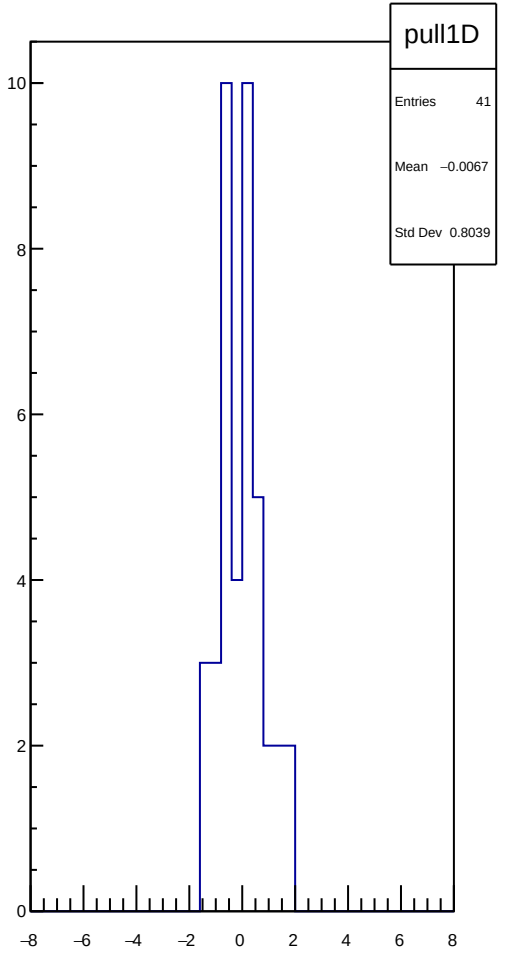

asym_usr_dit_correction_rms vs run
χ² / ndf 2114 / 40
p0 1718 ± 1.918
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

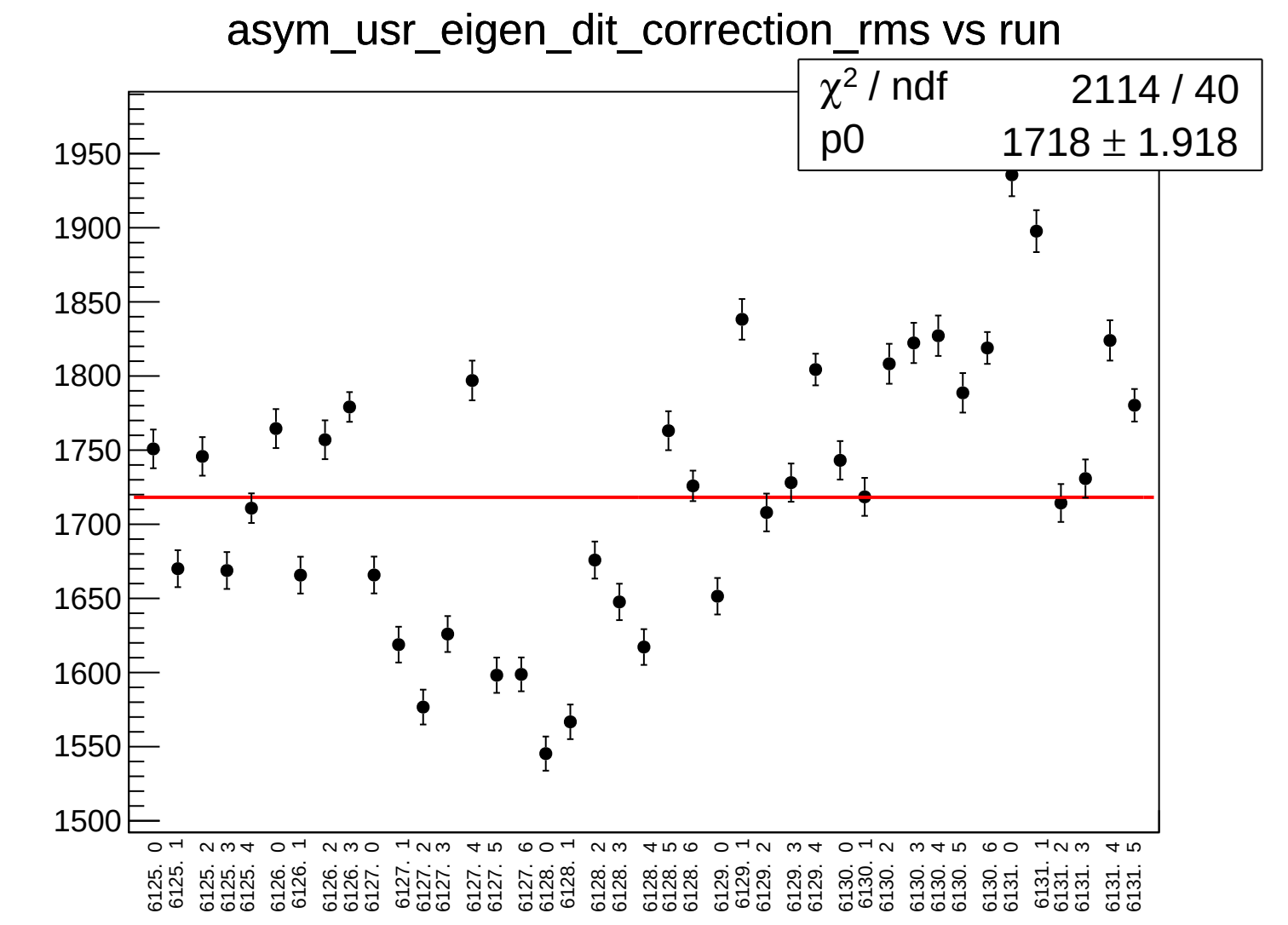

eigen_dit_asym_usr_mean vs run
χ² / ndf 28.98 / 40
p0 4417 ± 1772
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 36.81
Std Dev 53
2
1.5
1
0.5
0
−0.5
−1
−1.5

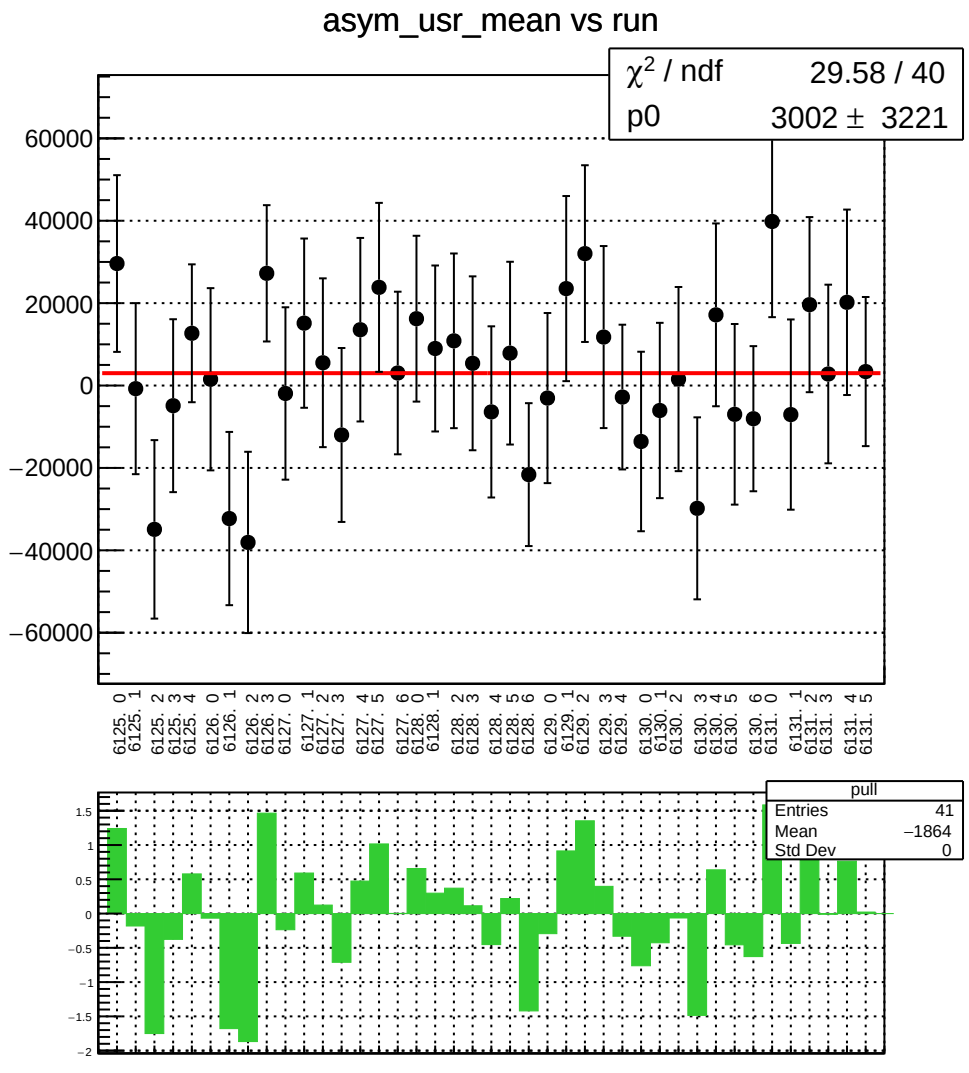

pull1D
Entries 41
Mean −0.007794
Std Dev 0.8407
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

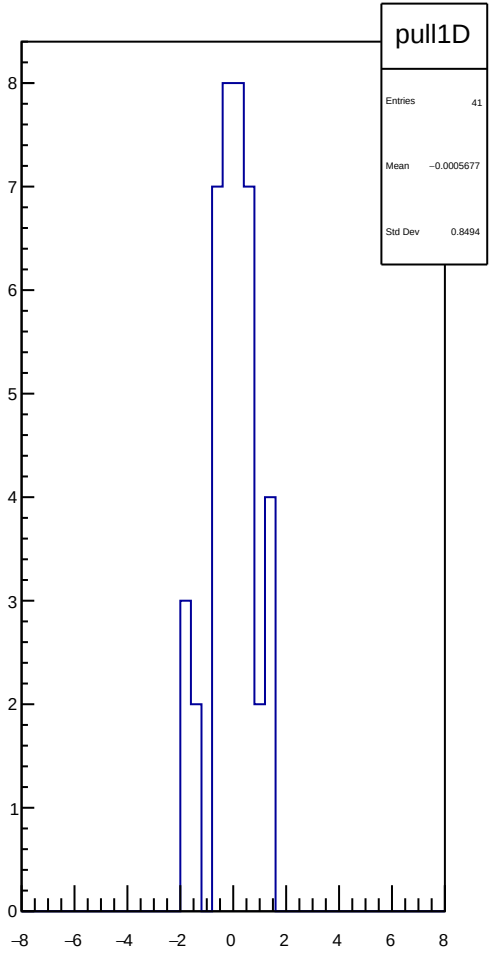

eigen_dit_asym_usr_rms vs run
χ² / ndf 26.9 / 40
p0 1124 ± 1.253
1150
1140
1130
1120
1110
1100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

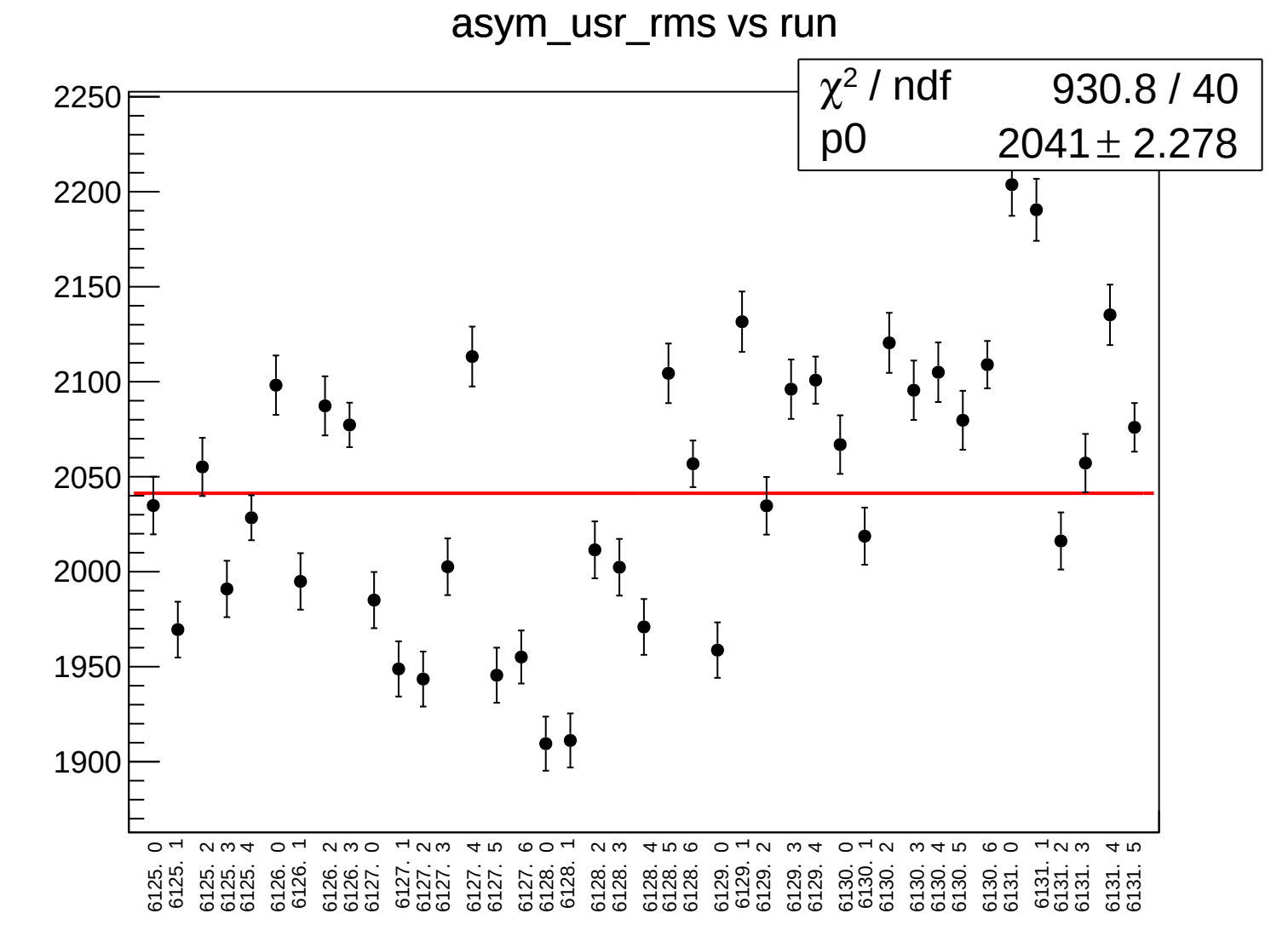

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 26.5 / 40
p0 1499 ± 2713
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 226.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

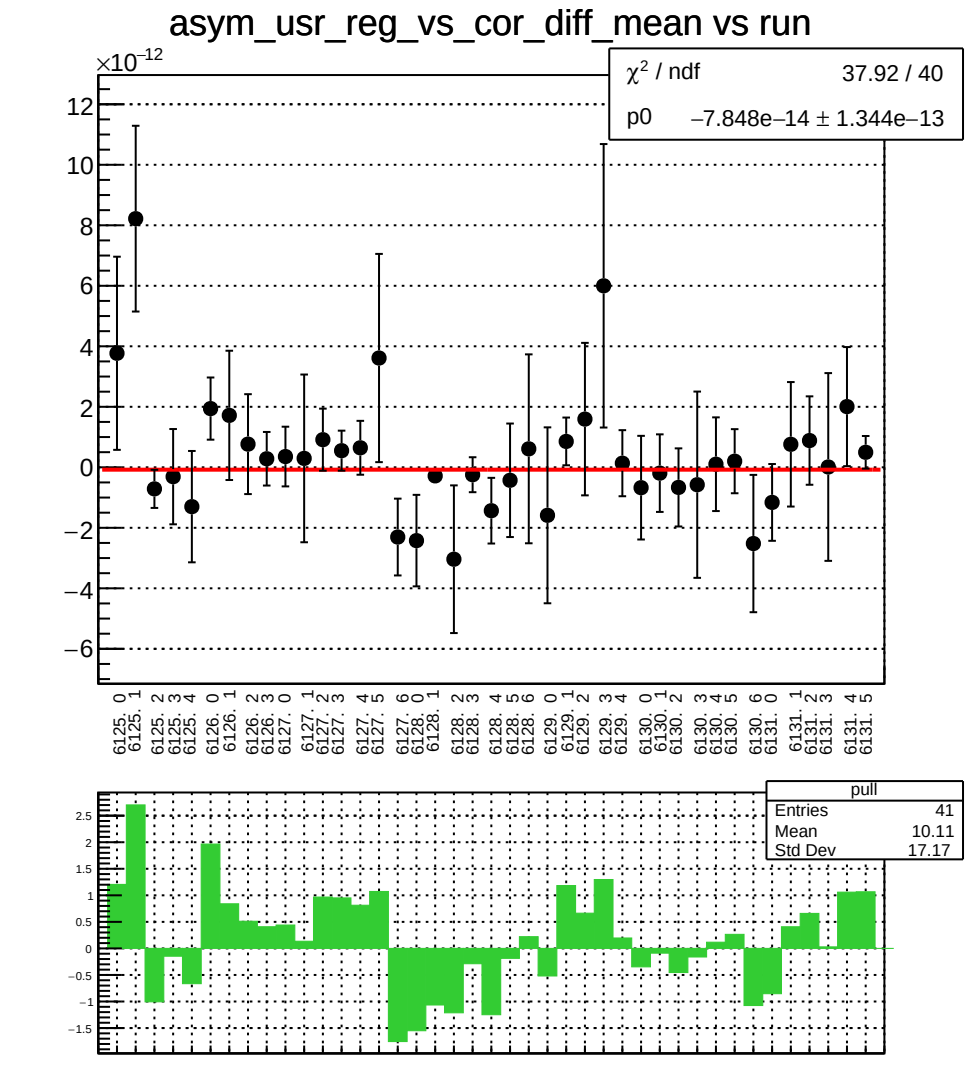

pull1D
Entries 41
Mean −0.0067
Std Dev 0.8039
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

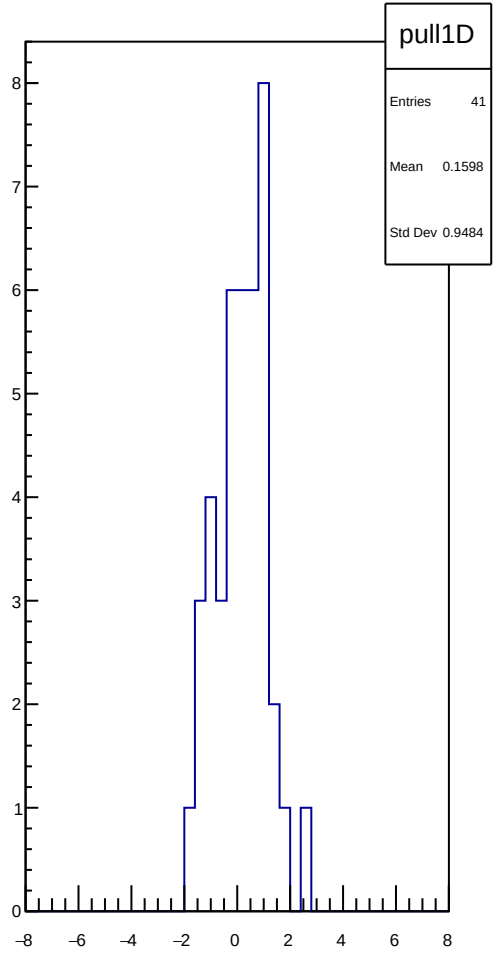

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 2114 / 40
p0 1718 ± 1.918
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

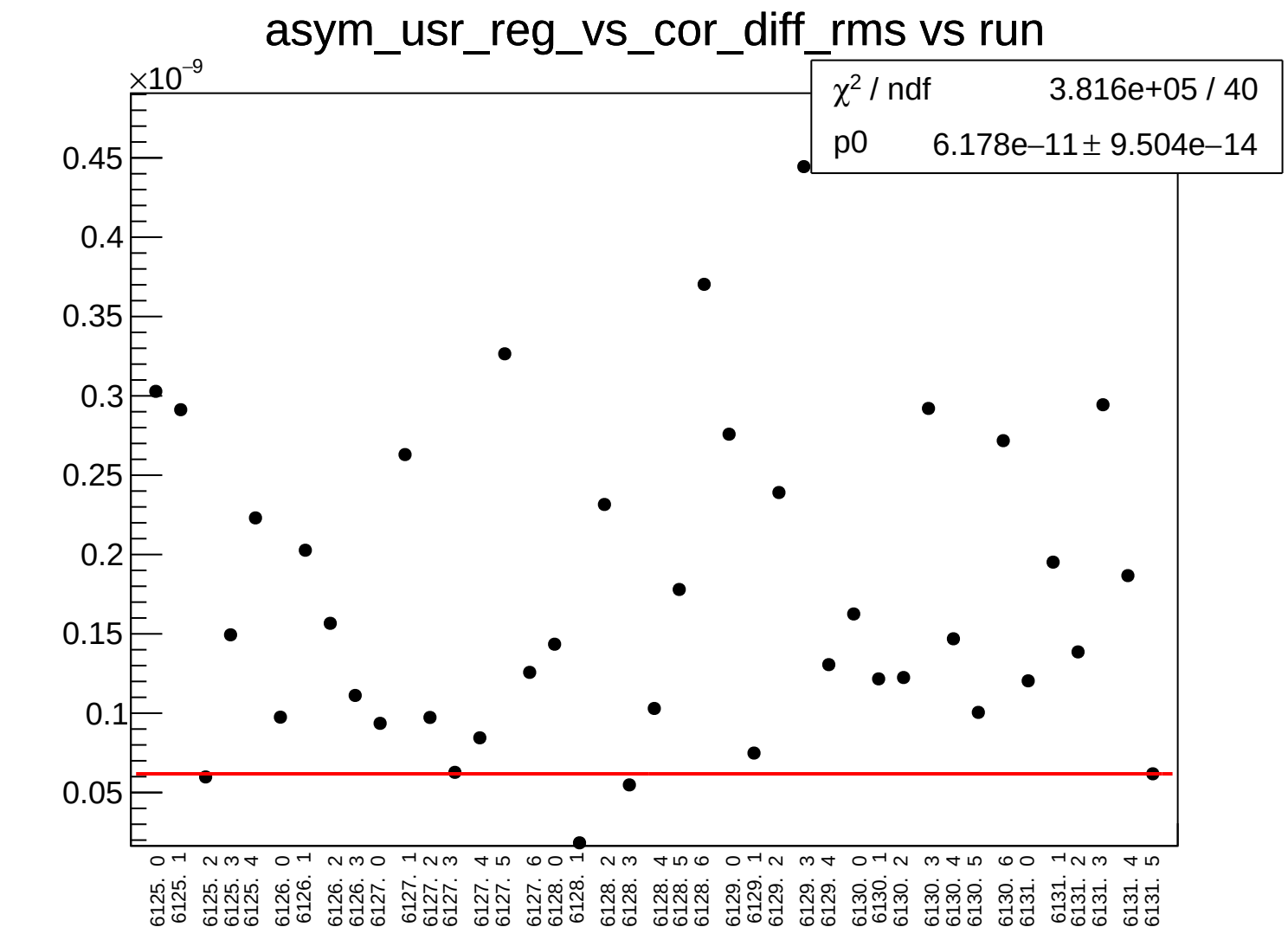

asym_usr_mean vs run
χ² / ndf 29.58 / 40
p0 3002 ± 3221
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1864
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

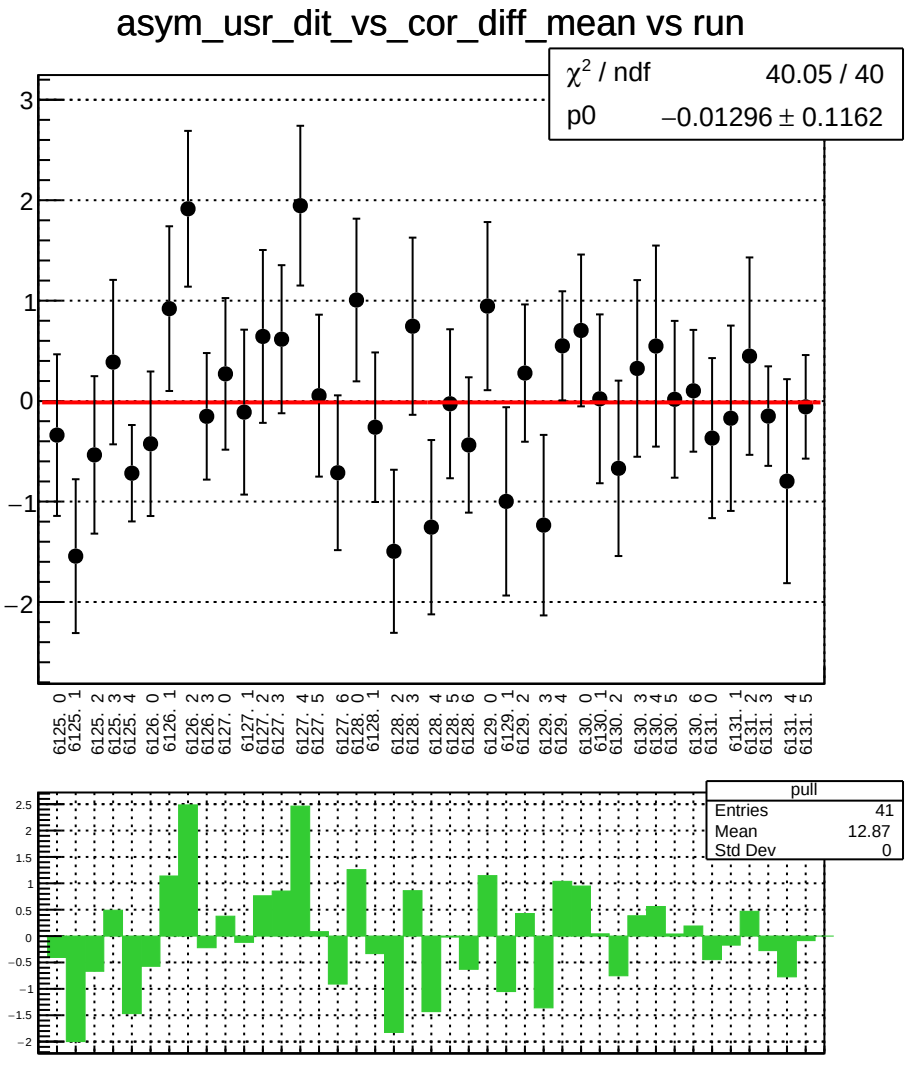

pull1D
Entries 41
Mean −0.0005677
Std Dev 0.8494
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

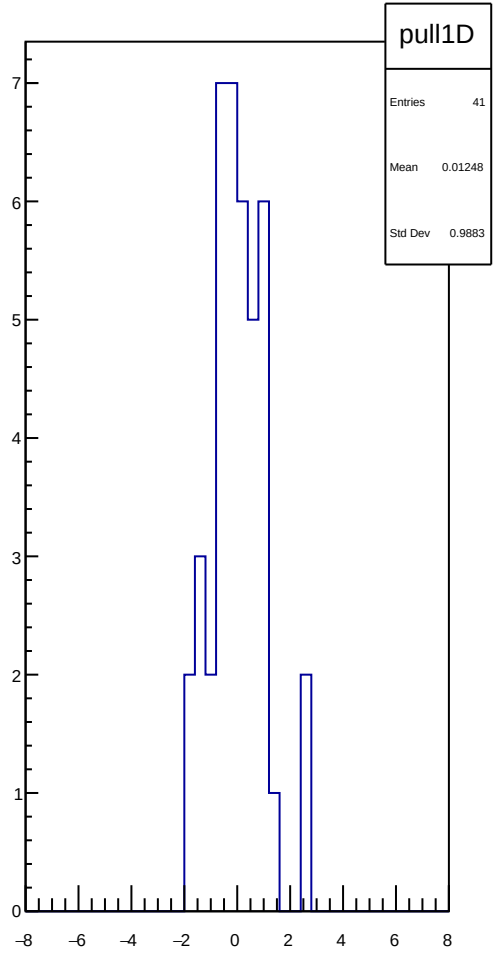

asym_usr_rms vs run
χ² / ndf 930.8 / 40
p0 2041 ± 2.278
2250
2200
2150
2100
2050
2000
1950
1900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

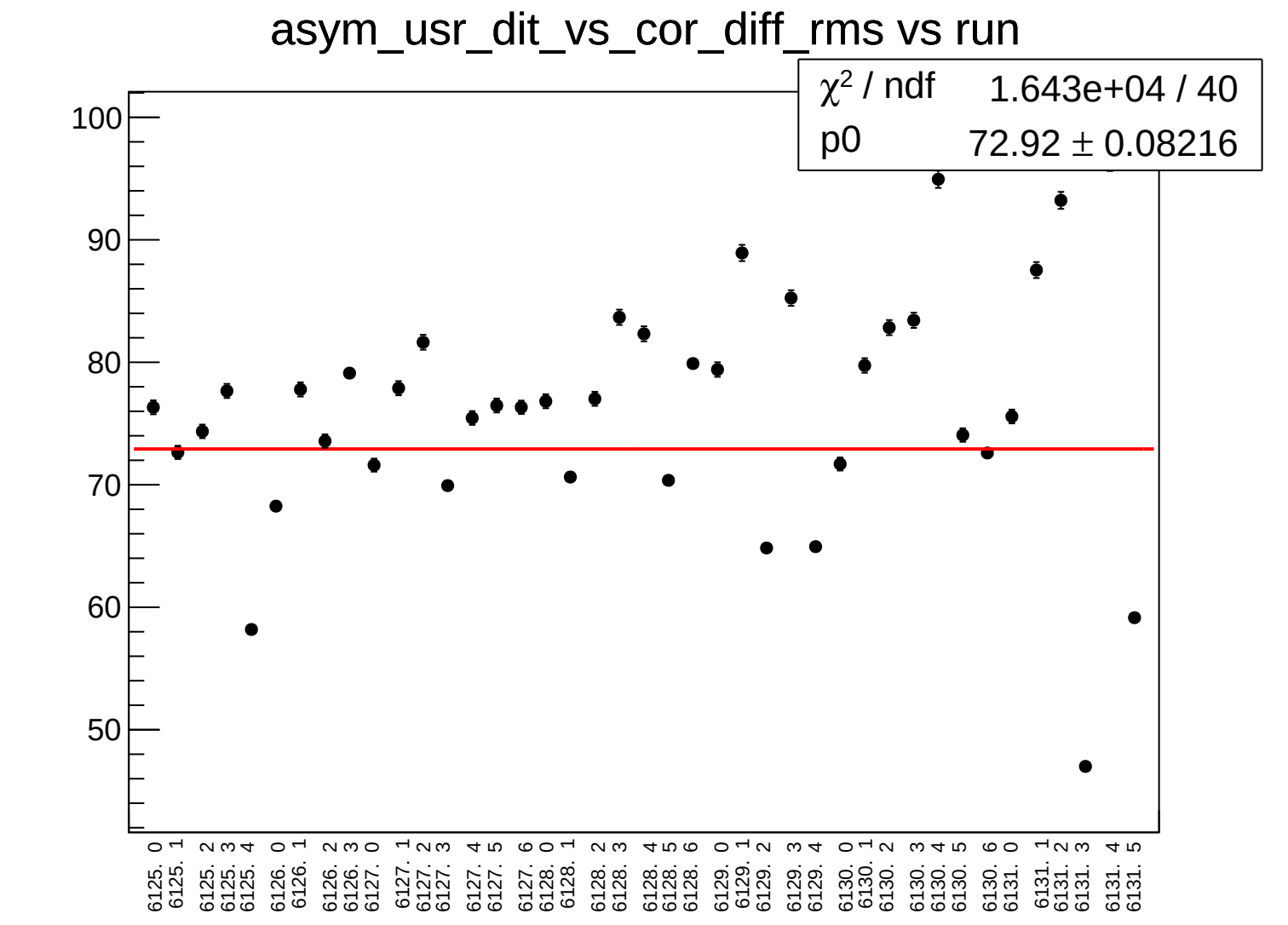

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 37.92 / 40
p0 −7.848e−14 ± 1.344e−13
pull
Entries 41
Mean 10.11
Std Dev 17.17

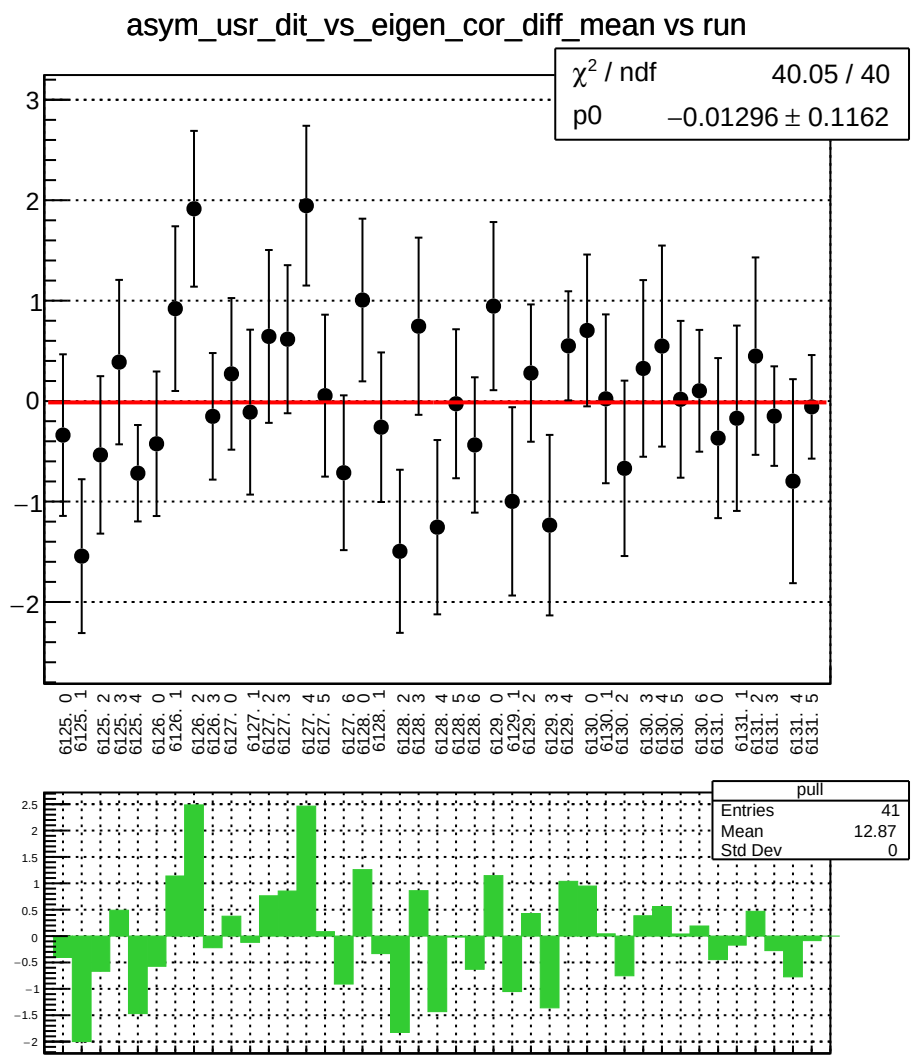

pull1D
Entries 41
Mean 0.1598
Std Dev 0.9484

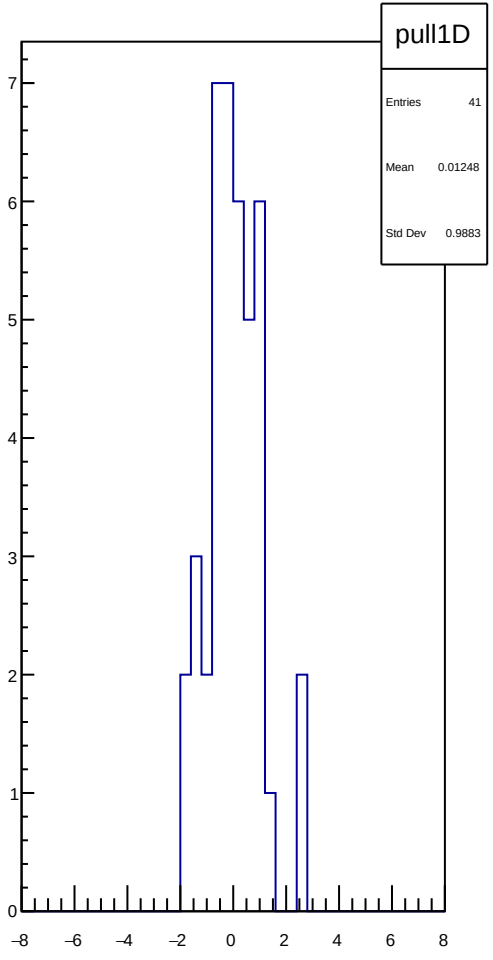

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.816e+05 / 40
p0 6.178e−11 ± 9.504e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

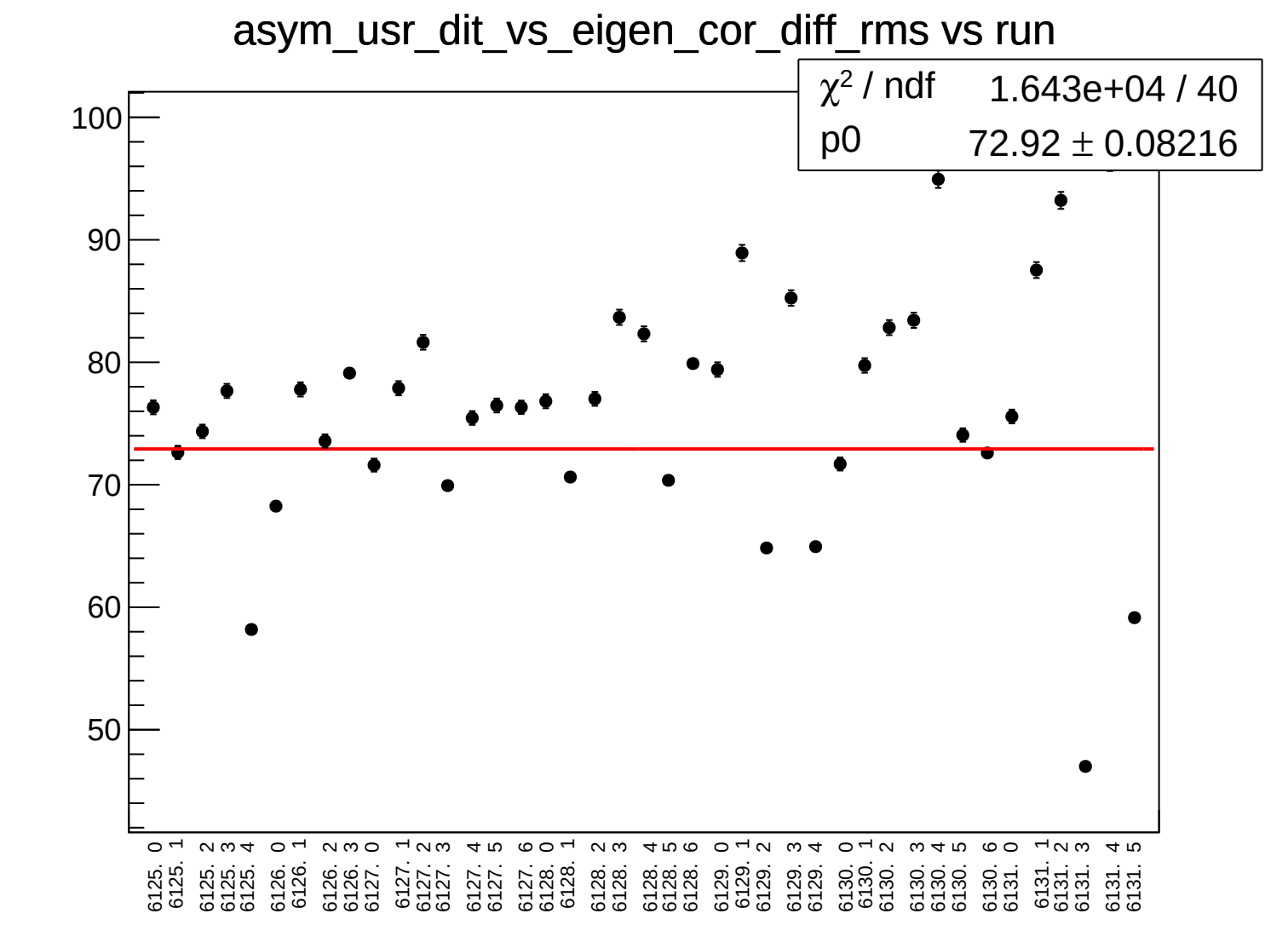

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 40.05 / 40
p0 −0.01296 ± 0.1162
pull
Entries 41
Mean 12.87
Std Dev 0

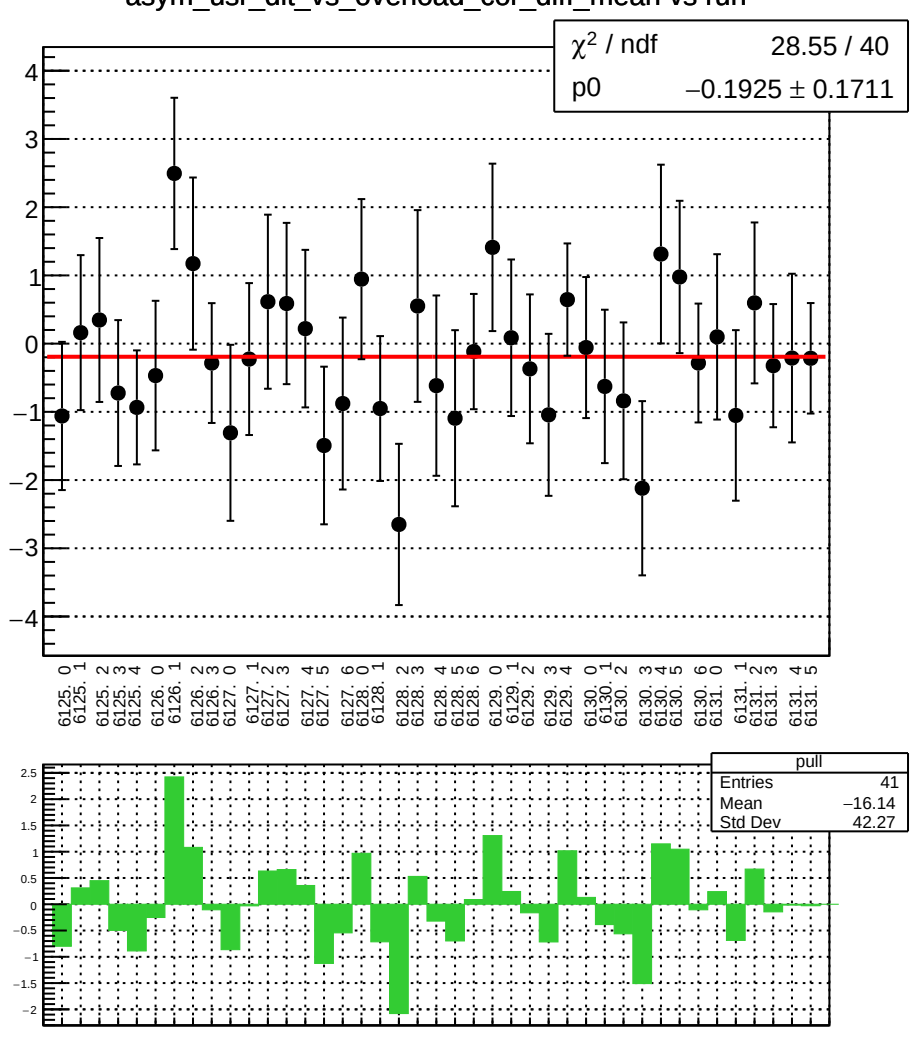

pull1D
Entries 41
Mean 0.01248
Std Dev 0.9883

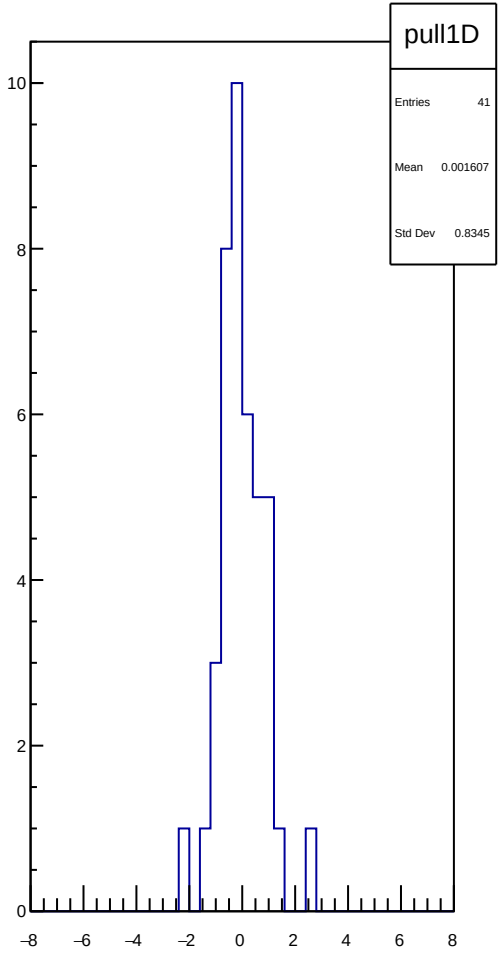

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 1.643e+04 / 40
p0 72.92 ± 0.08216
100
90
80
70
60
50
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

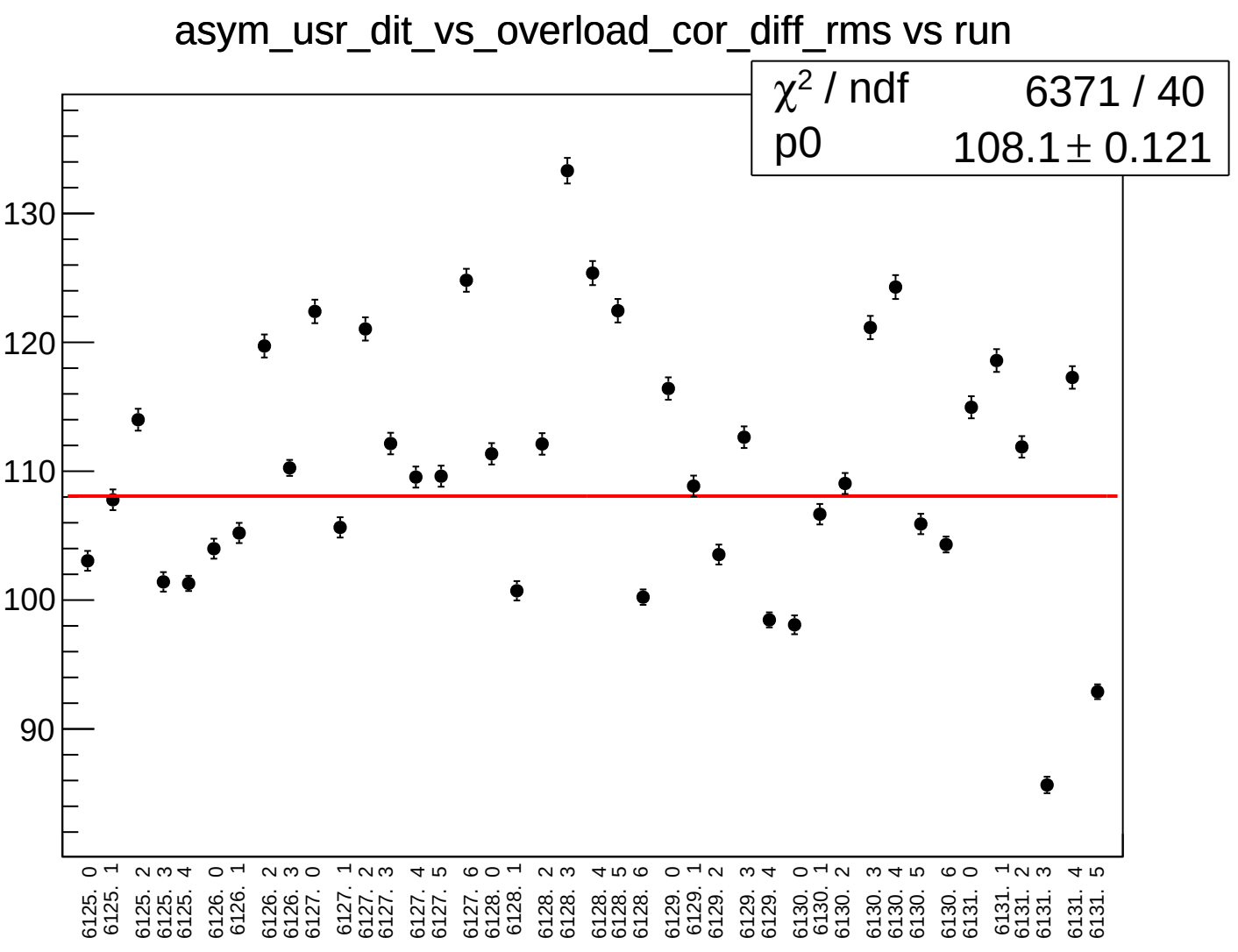

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.05 / 40
p0 −0.01296 ± 0.1162
pull
Entries 41
Mean 12.87
Std Dev 0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

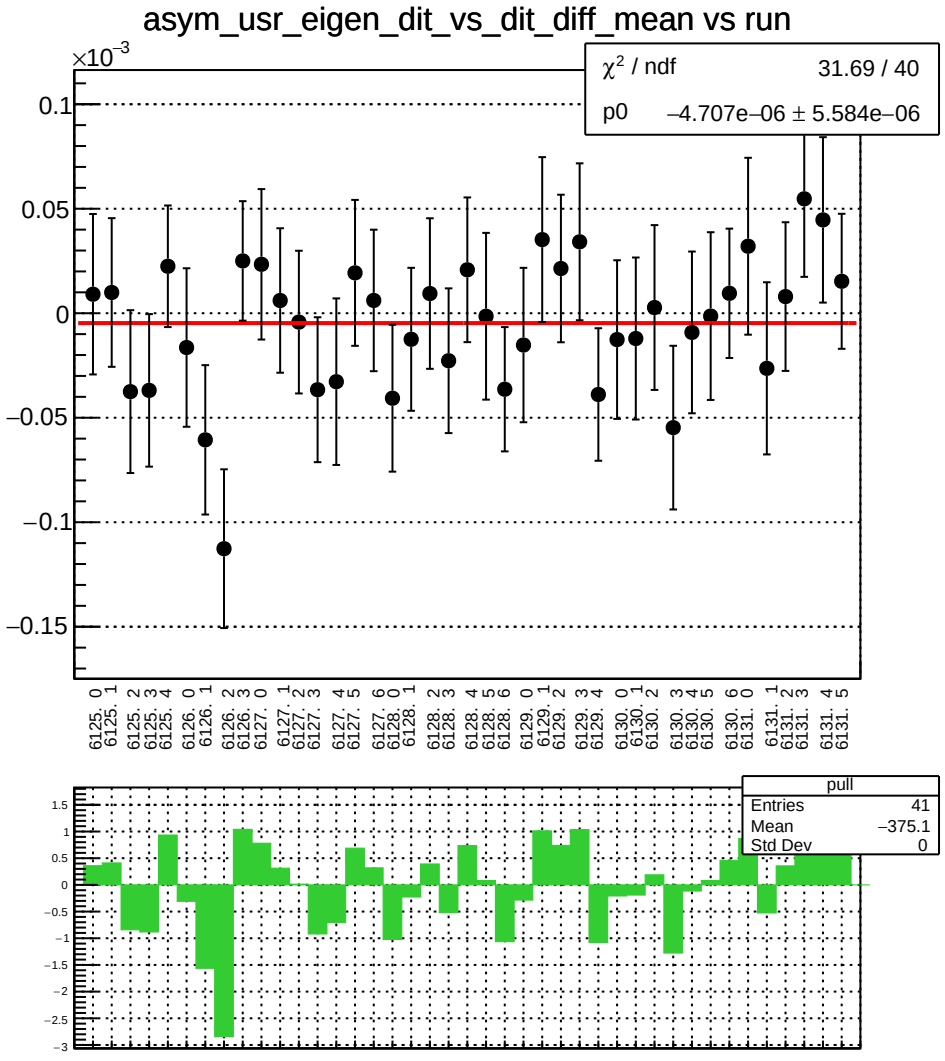

pull1D
Entries 41
Mean 0.01248
Std Dev 0.9883

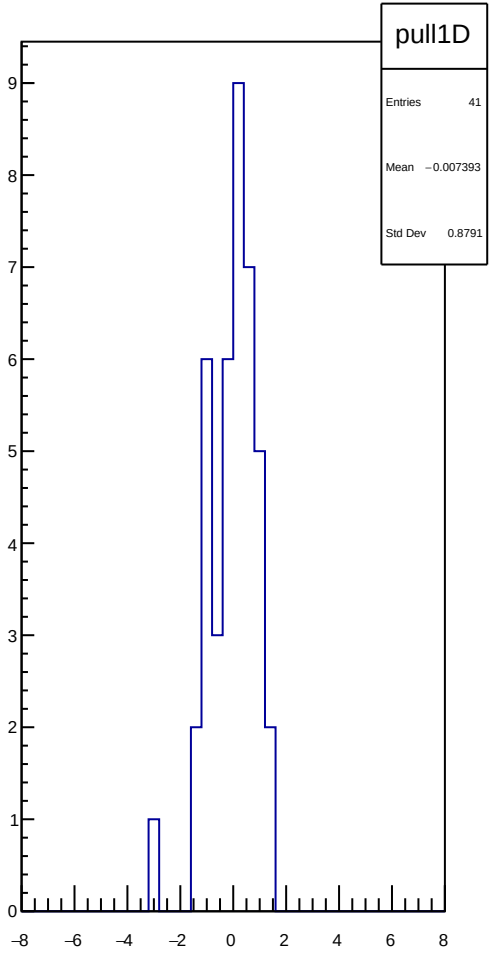

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.643e+04 / 40
p0 72.92 ± 0.08216
100
90
80
70
60
50
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

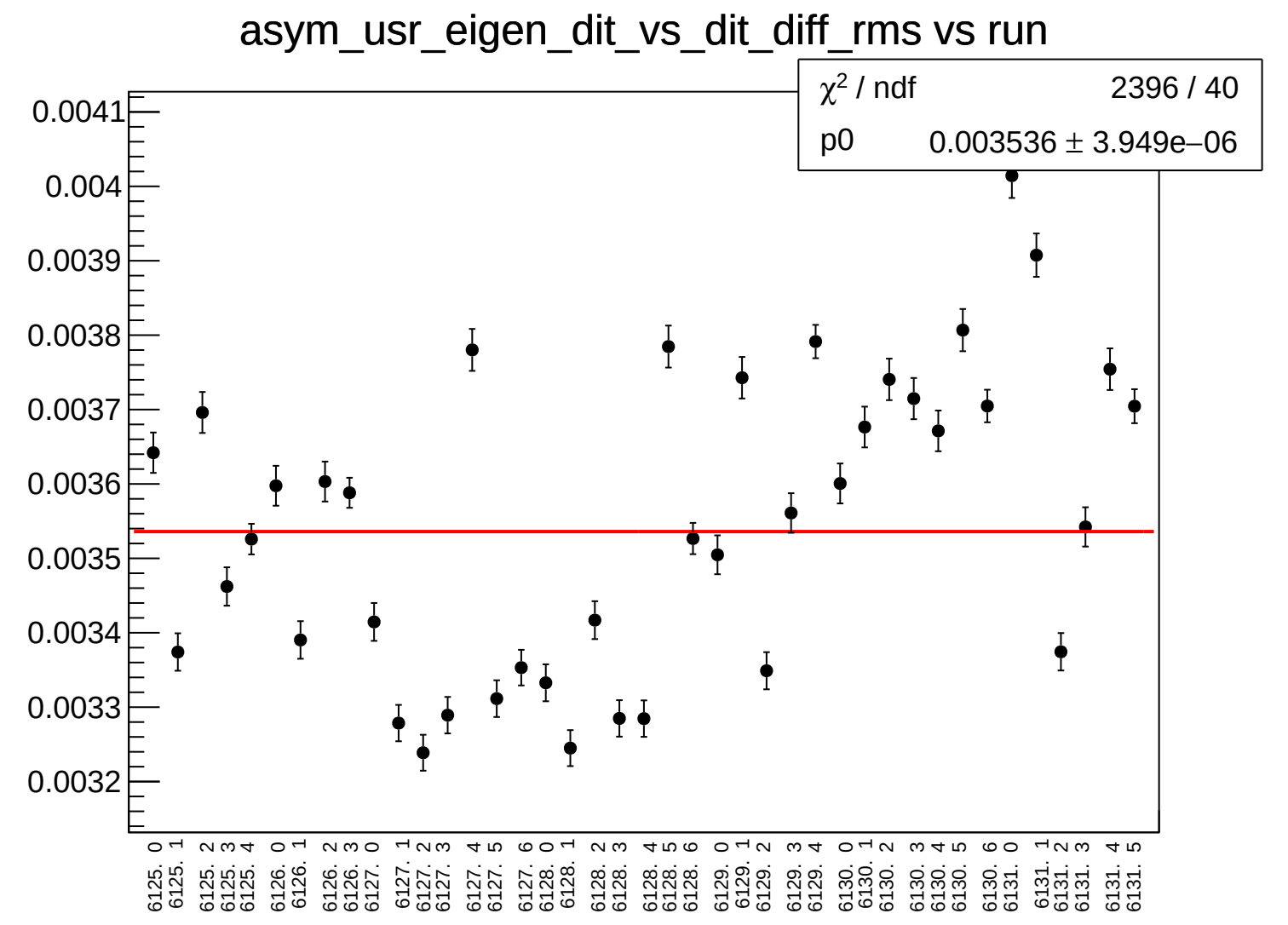

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 28.55 / 40
p0 −0.1925 ± 0.1711
pull
Entries 41
Mean −16.14
Std Dev 42.27

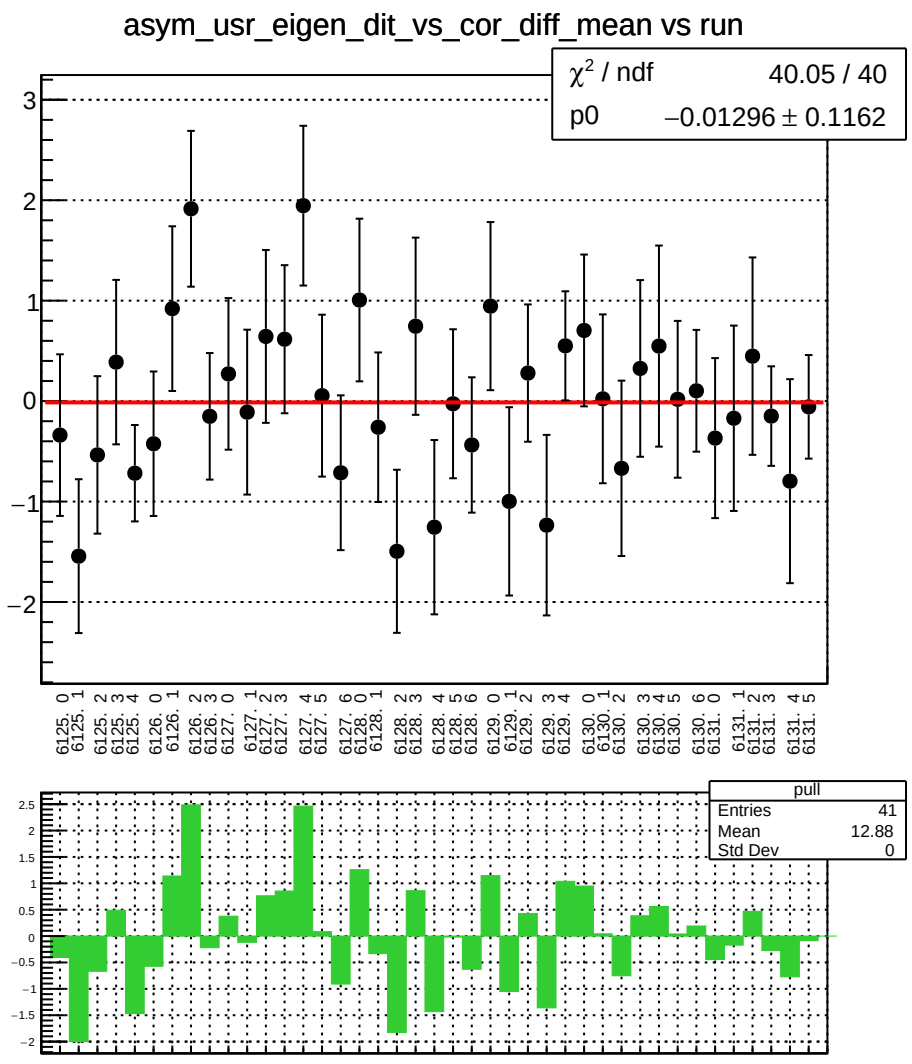

pull1D
Entries 41
Mean 0.001607
Std Dev 0.8345

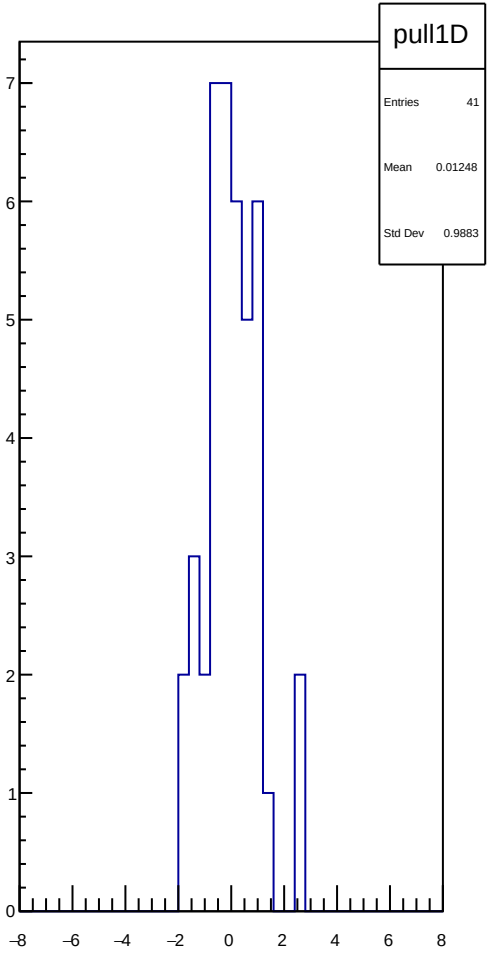

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6371 / 40
p0 108.1 ± 0.121
130
120
110
100
90
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

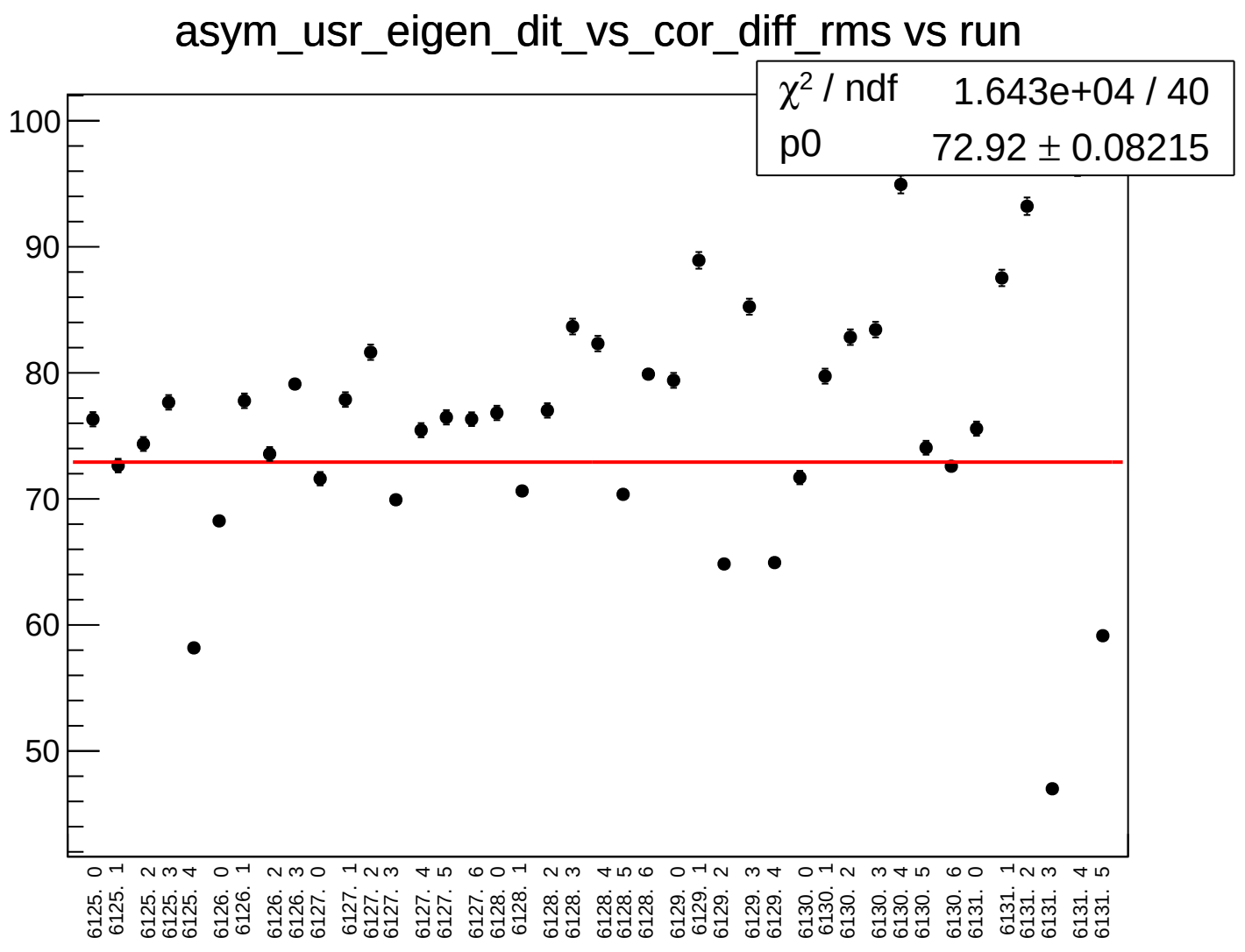

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 31.69 / 40
p0 −4.707e−06 ± 5.584e−06
0.1
0.05
0
−0.05
−0.1
−0.15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −375.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

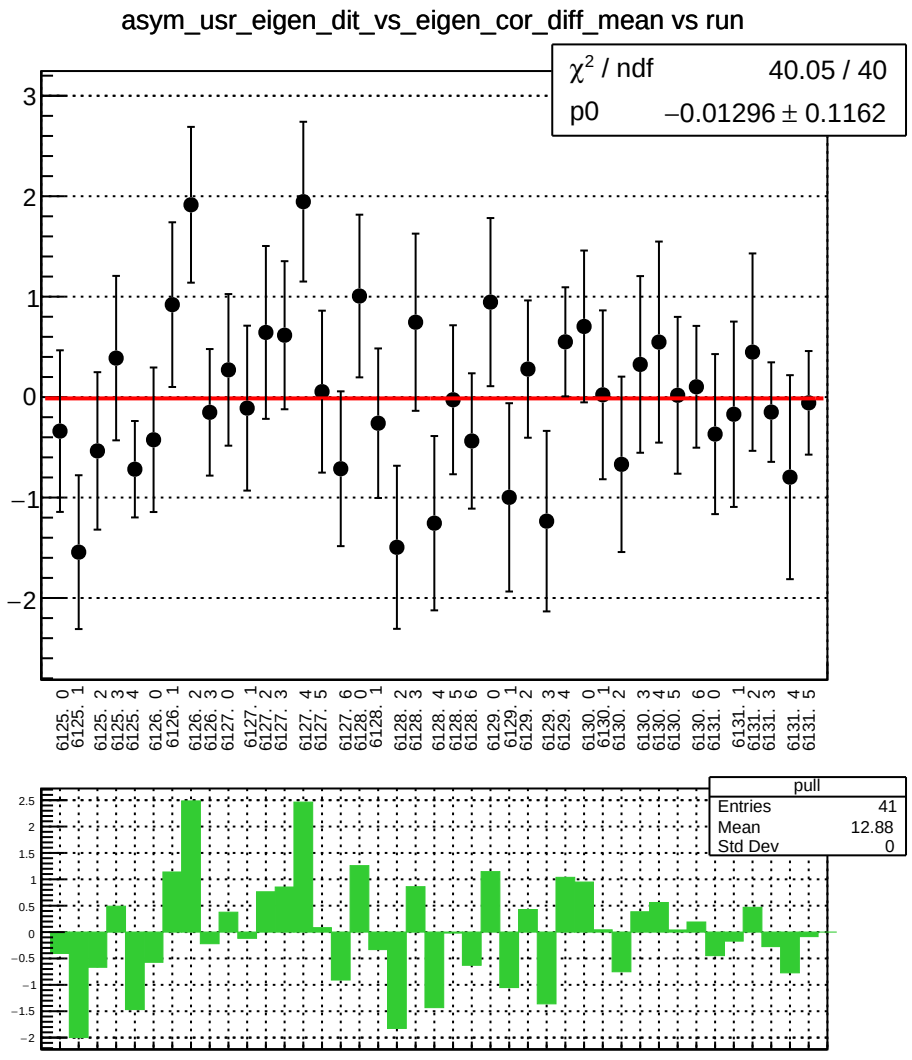

pull1D
Entries 41
Mean −0.007393
Std Dev 0.8791
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

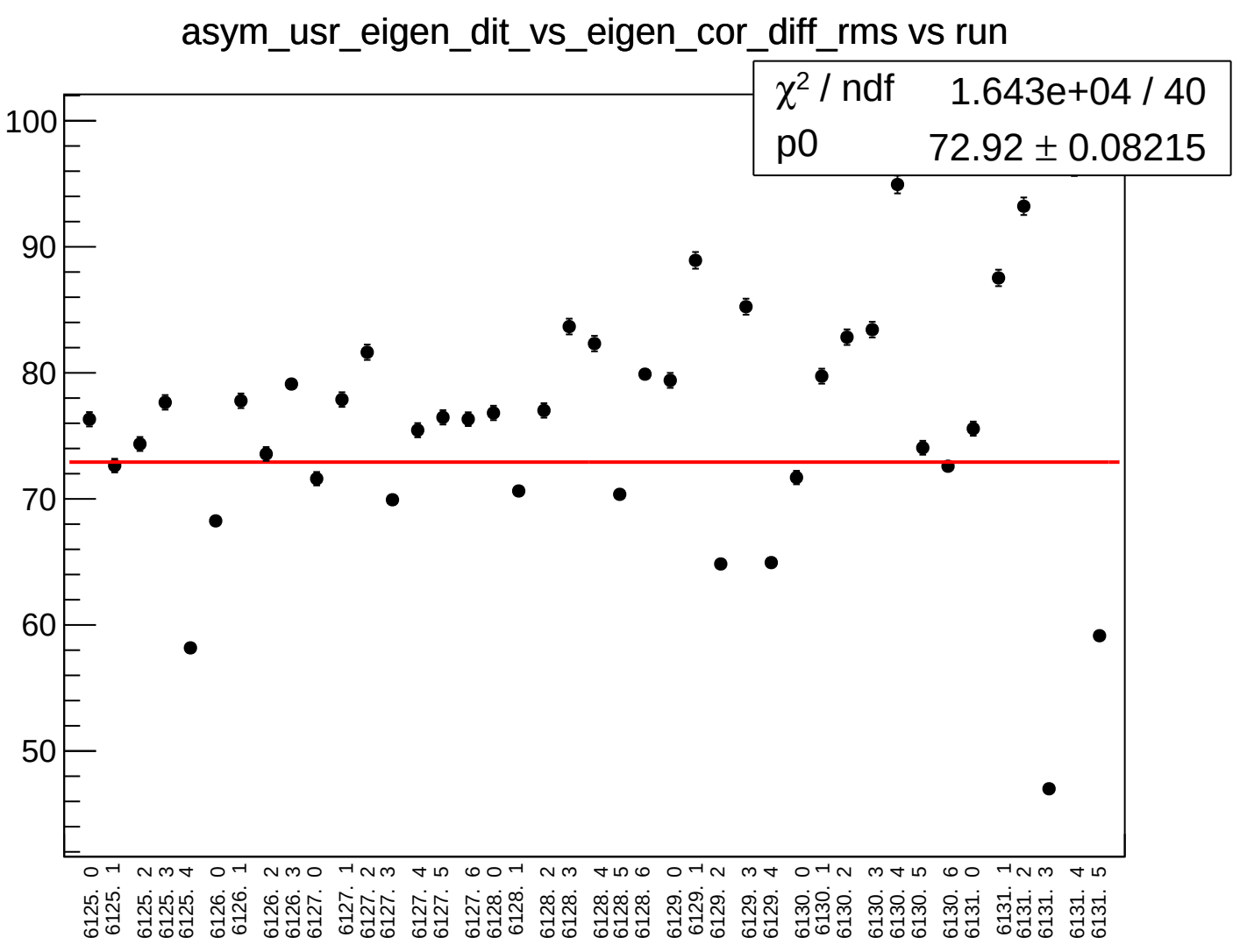

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2396 / 40
p0 0.003536 ± 3.949e−06
0.0041
0.004
0.0039
0.0038
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

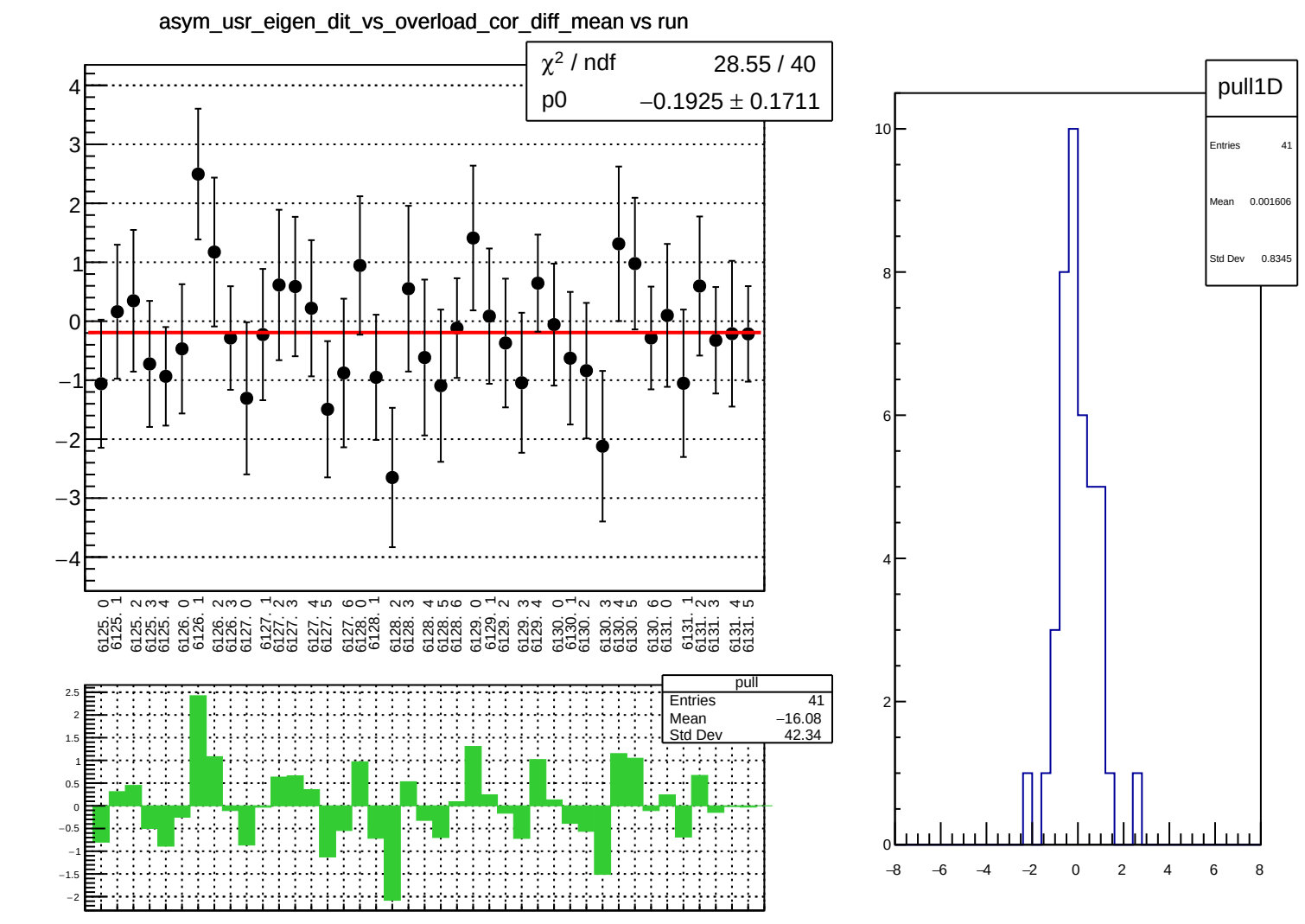

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 40.05 / 40
p0 −0.01296 ± 0.1162
pull
Entries 41
Mean 12.88
Std Dev 0

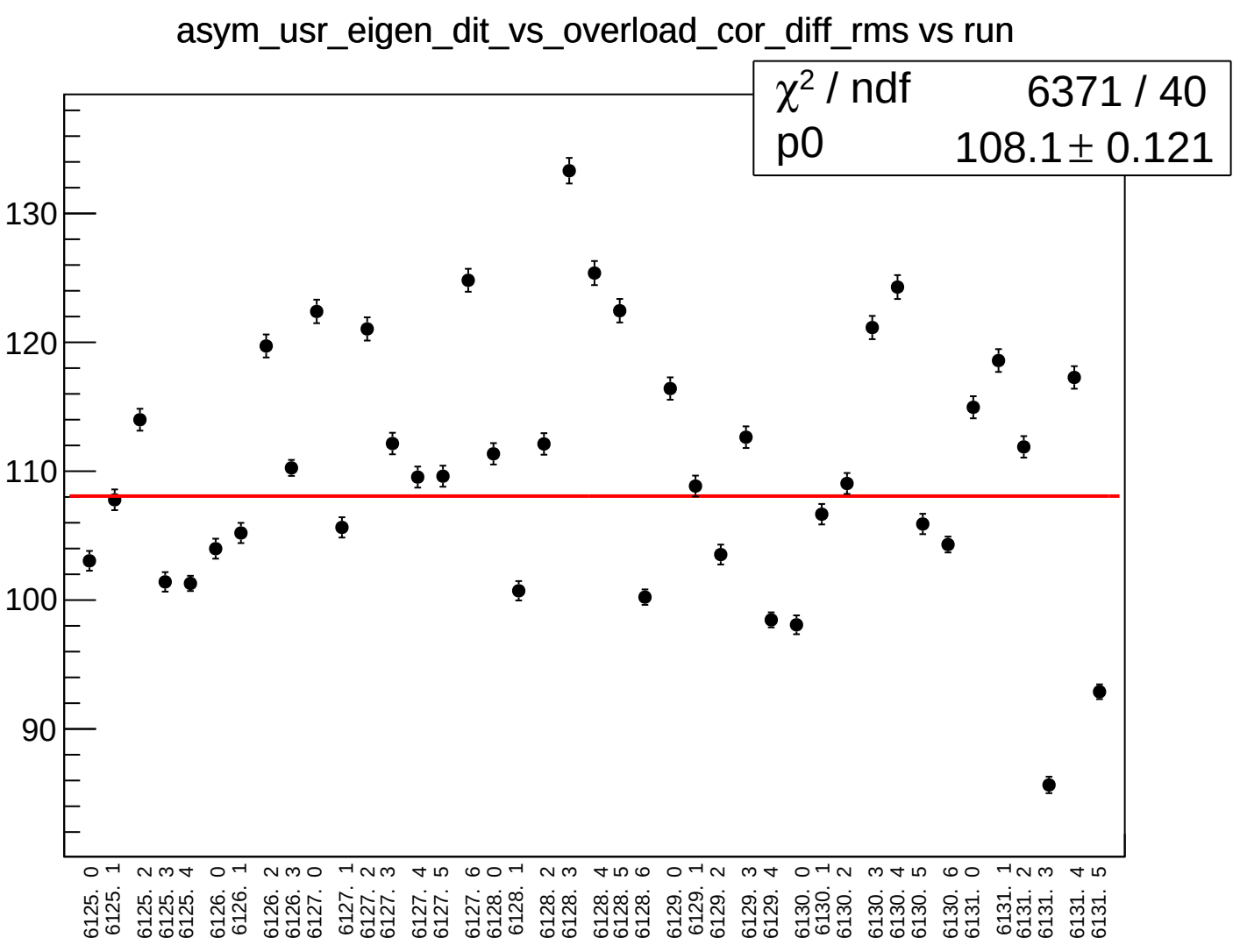

pull1D
Entries 41
Mean 0.01248
Std Dev 0.9883

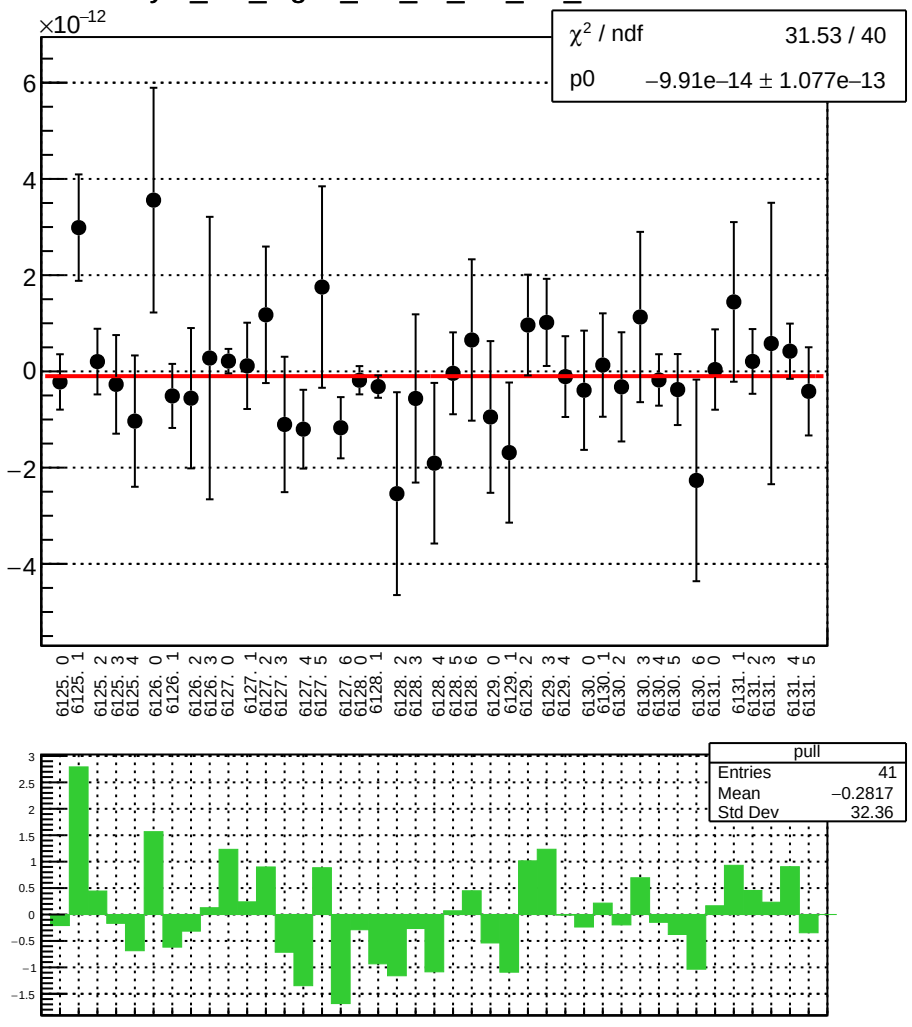

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.643e+04 / 40
p0 72.92 ± 0.08215
100
90
80
70
60
50
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

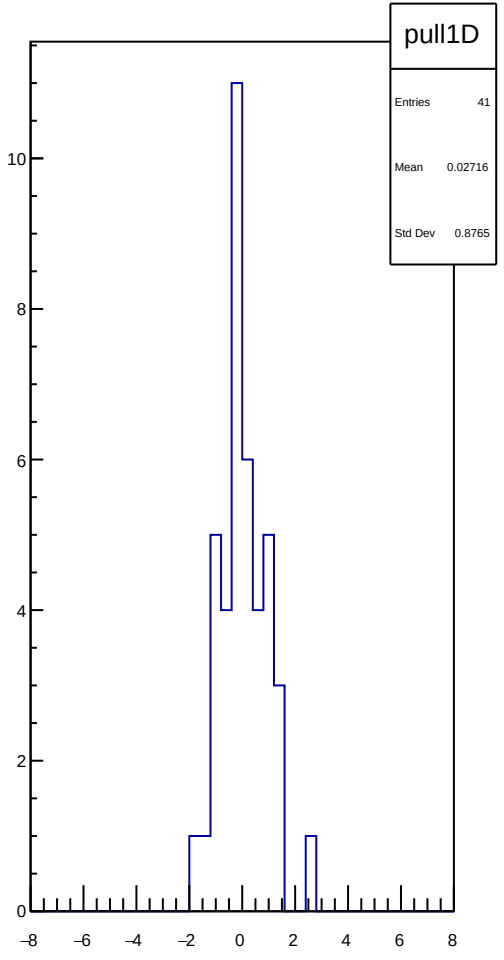

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.05 / 40
p0 −0.01296 ± 0.1162
pull
Entries 41
Mean 12.88
Std Dev 0
pull1D
Entries 41
Mean 0.01248
Std Dev 0.9883

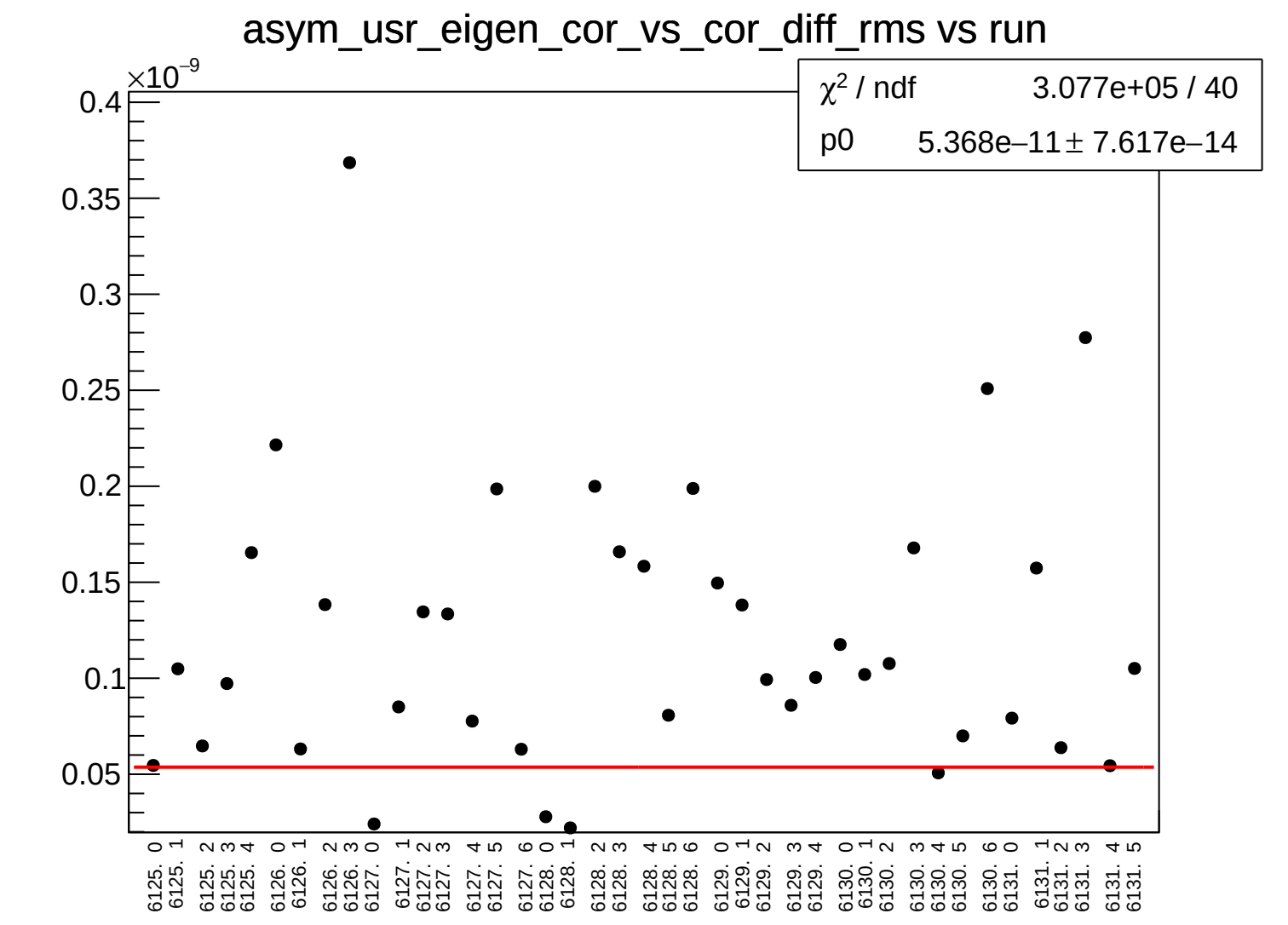

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.643e+04 / 40
p0 72.92 ± 0.08215
100
90
80
70
60
50
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

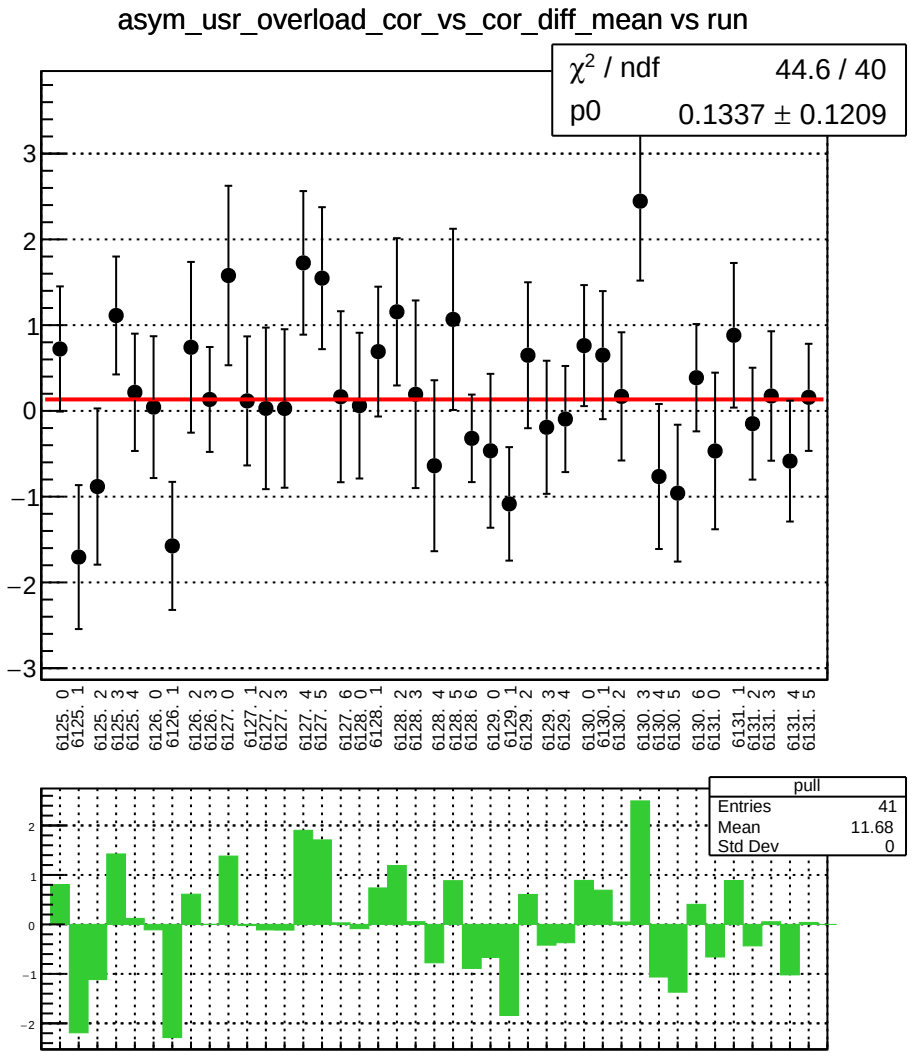

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 28.55 / 40
p0 −0.1925 ± 0.1711
pull
Entries 41
Mean −16.08
Std Dev 42.34
pull1D
Entries 41
Mean 0.001606
Std Dev 0.8345

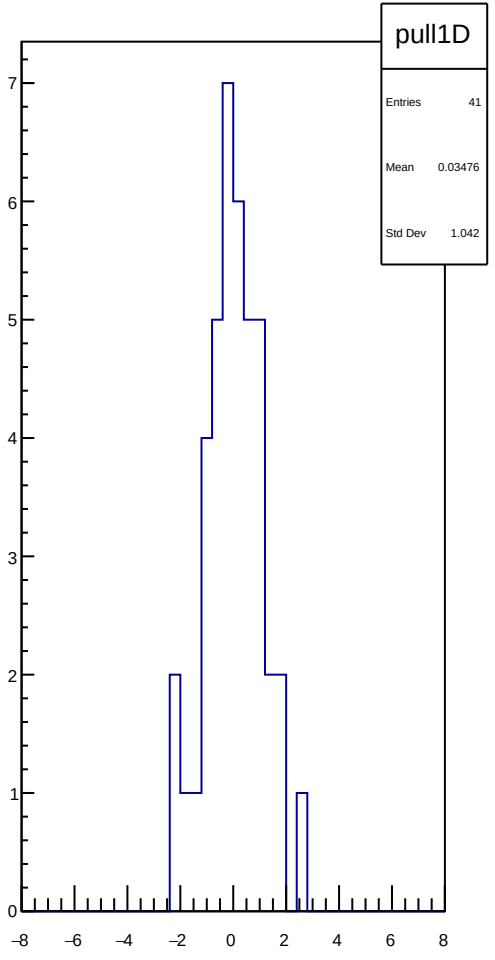

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6371 / 40
p0 108.1 ± 0.121
130
120
110
100
90
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

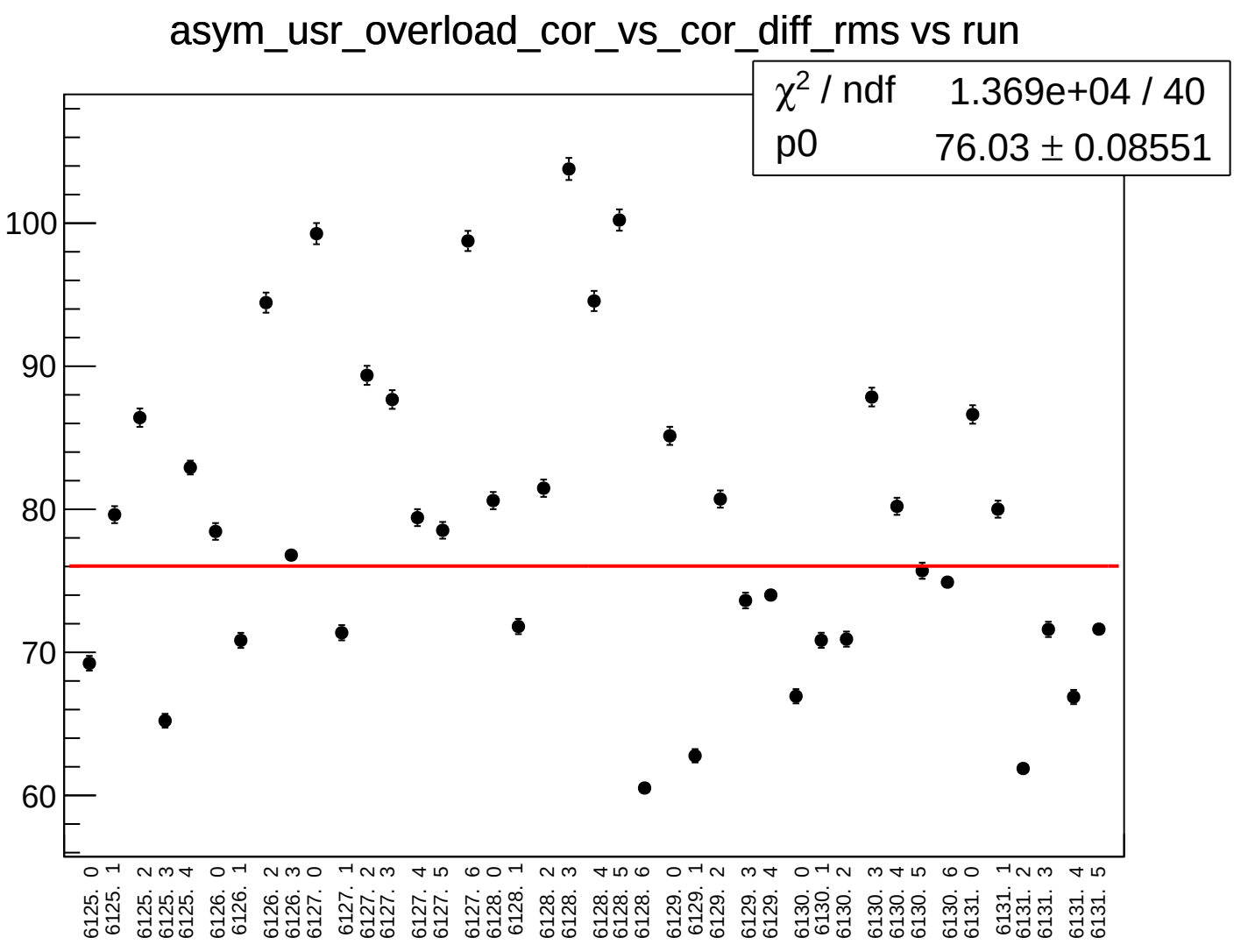

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.53 / 40
p0 −9.91e−14 ± 1.077e−13
pull
Entries 41
Mean −0.2817
Std Dev 32.36

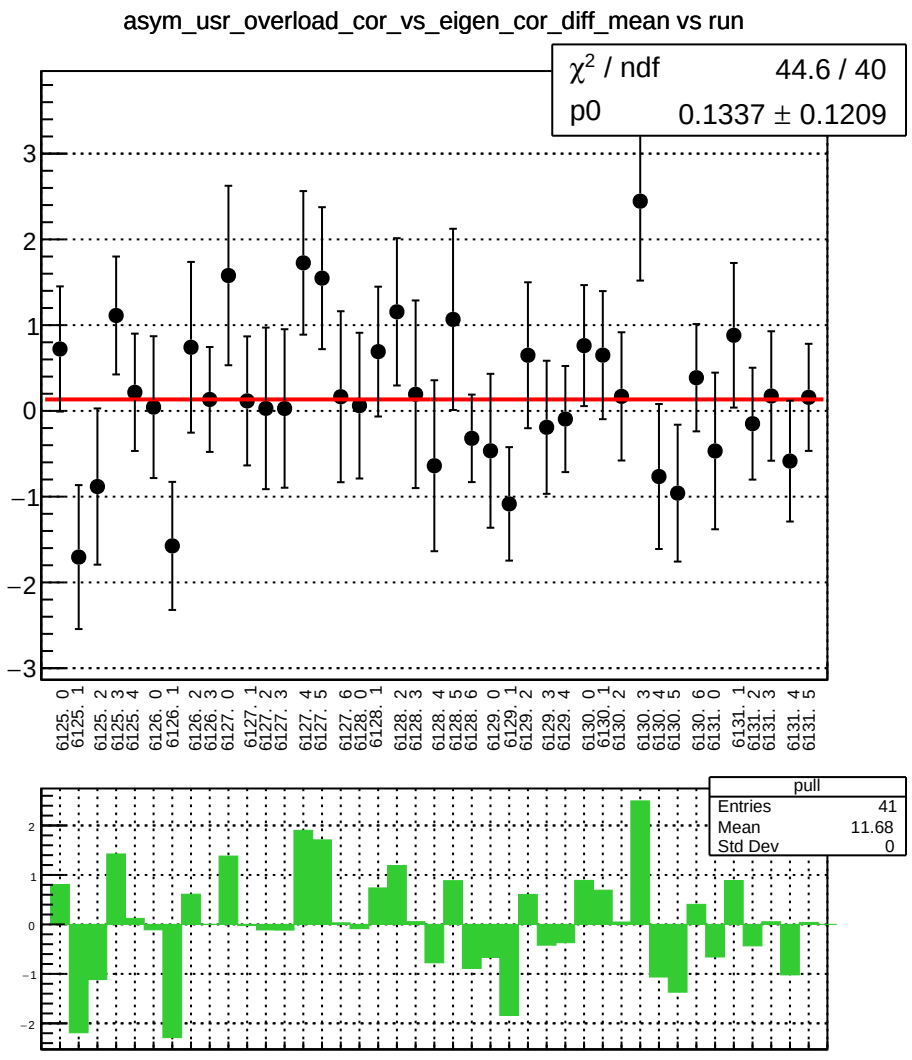

pull1D
Entries 41
Mean 0.02716
Std Dev 0.8765

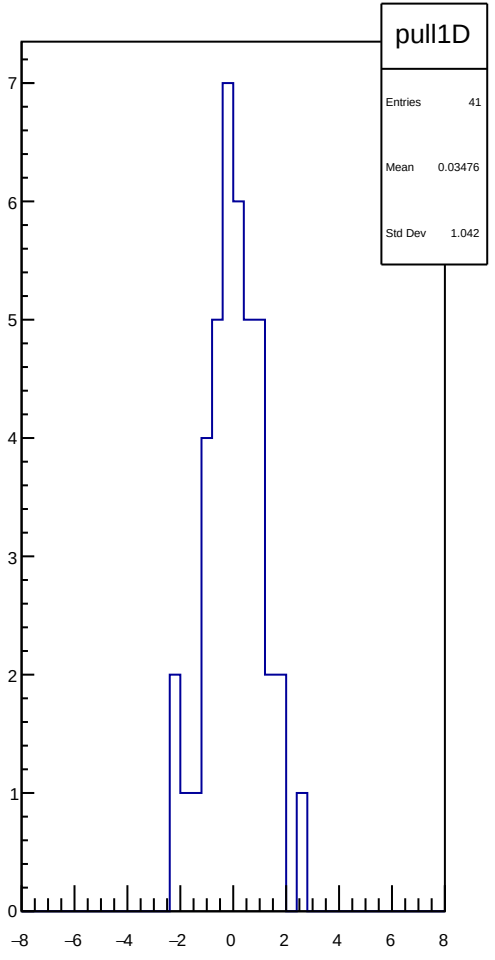

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.077e+05 / 40
p0 5.368e−11 ± 7.617e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

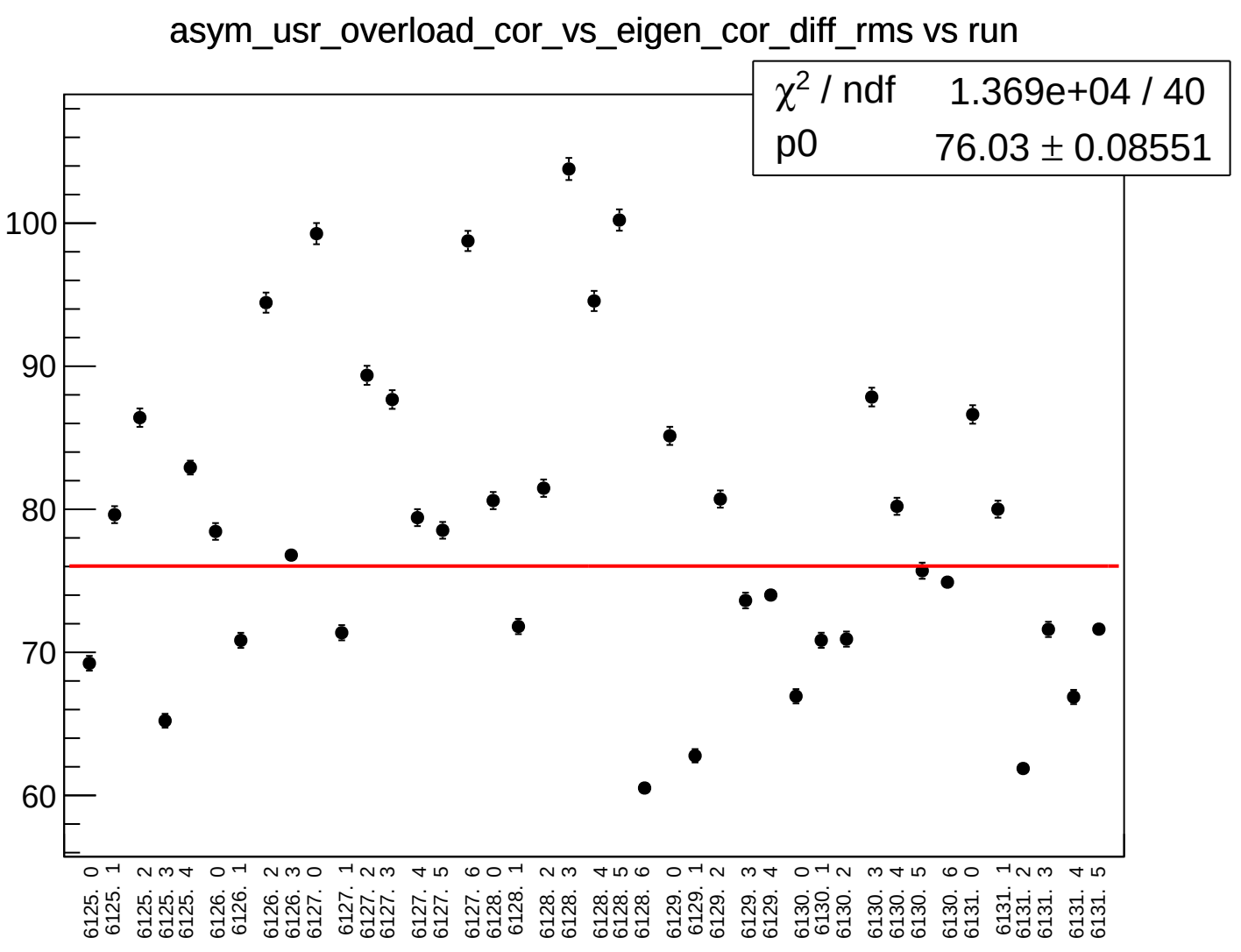

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 44.6 / 40
p0 0.1337 ± 0.1209
pull
Entries 41
Mean 11.68
Std Dev 0

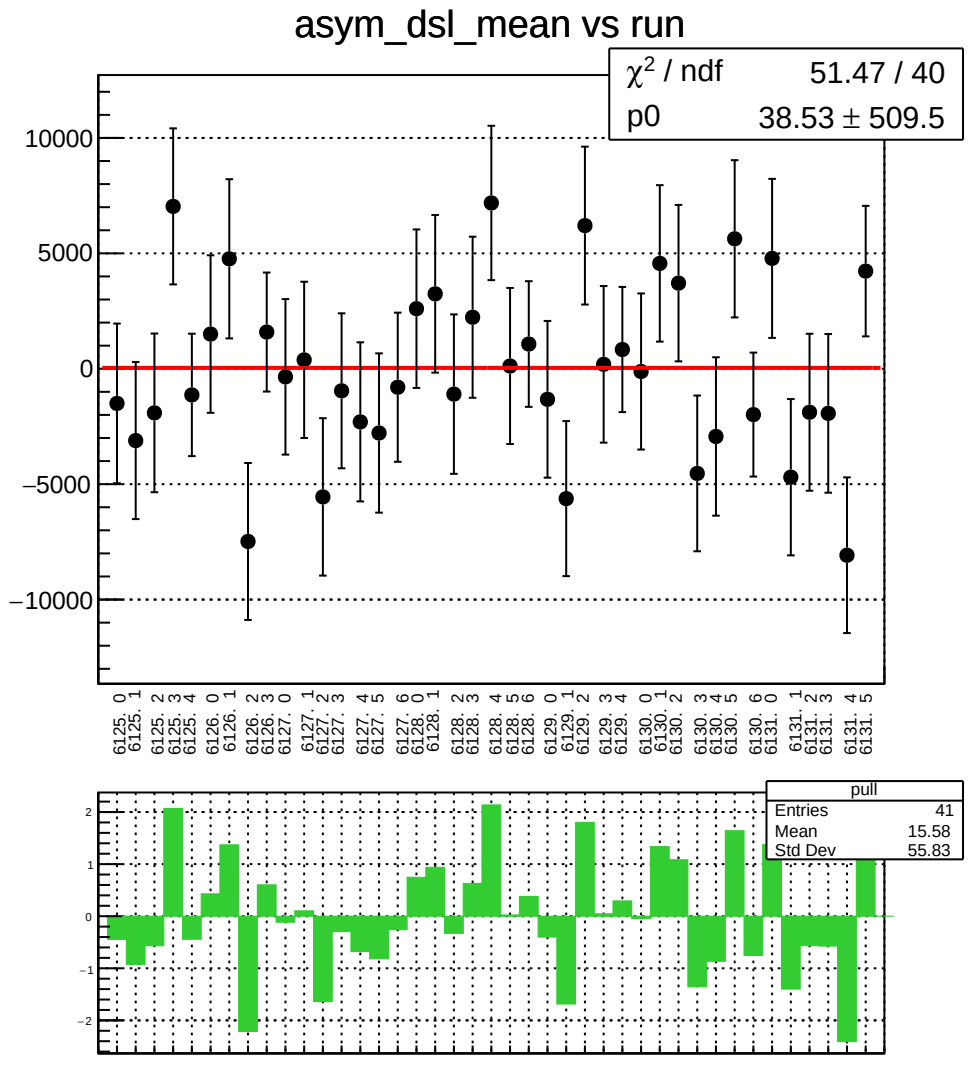

pull1D
Entries 41
Mean 0.03476
Std Dev 1.042

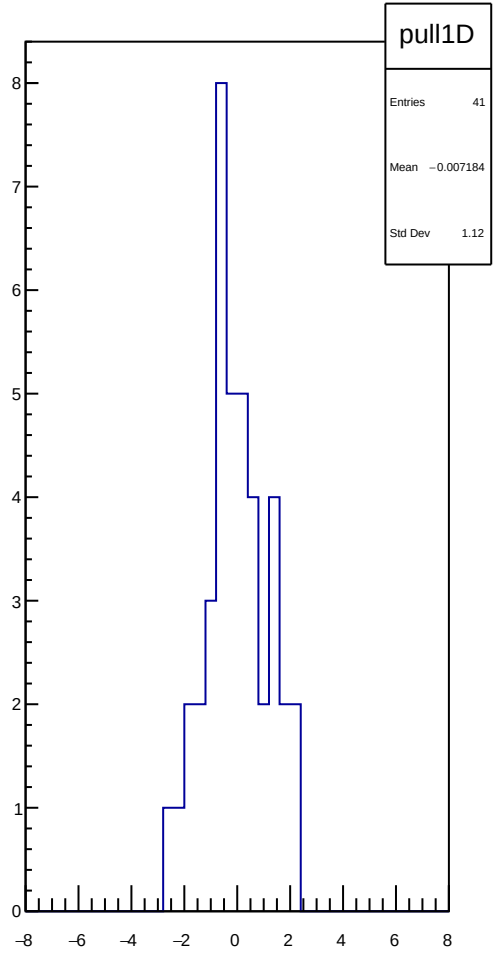

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.369e+04 / 40
p0 76.03 ± 0.08551
100
90
80
70
60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

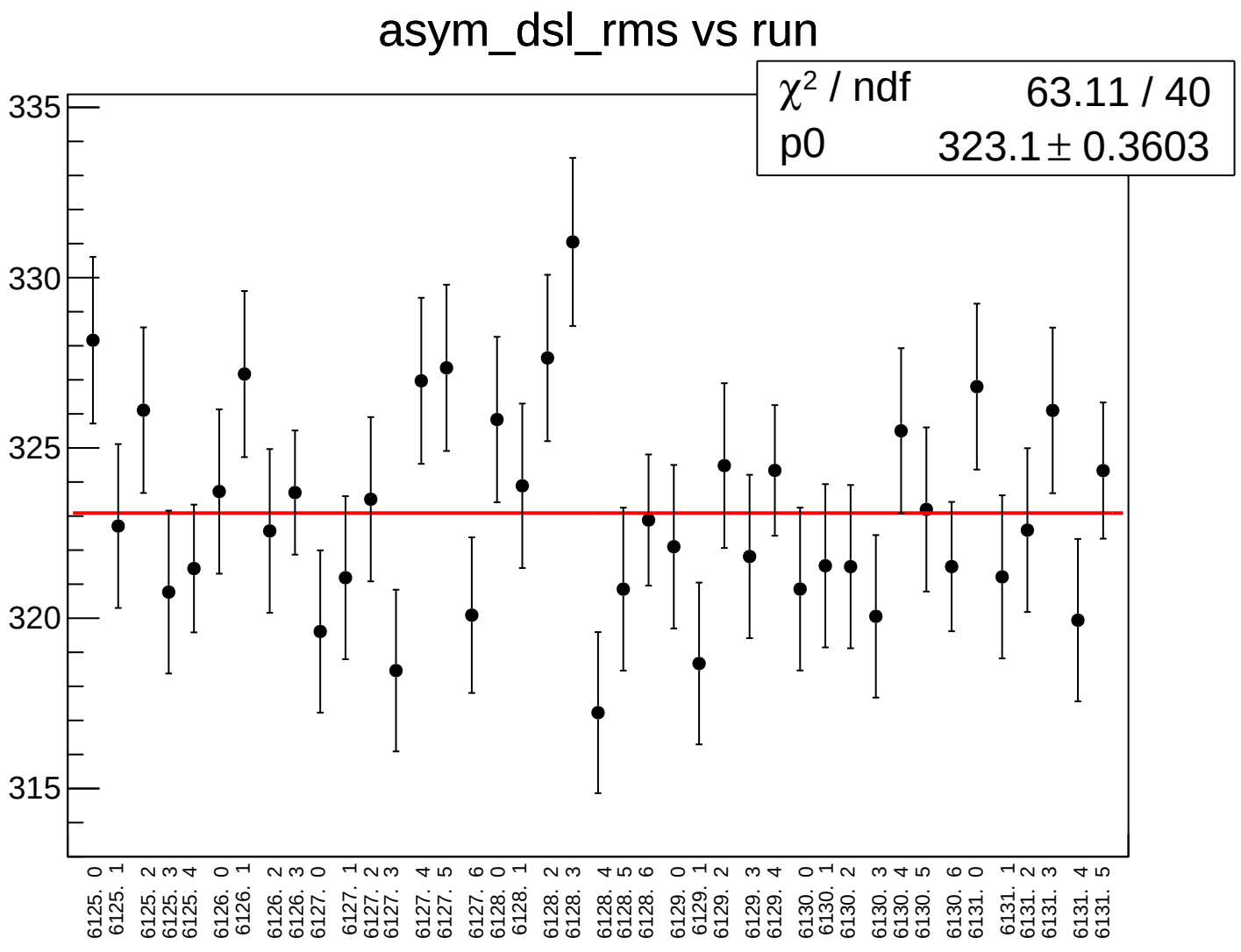

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.6 / 40
p0 0.1337 ± 0.1209
pull
Entries 41
Mean 11.68
Std Dev 0

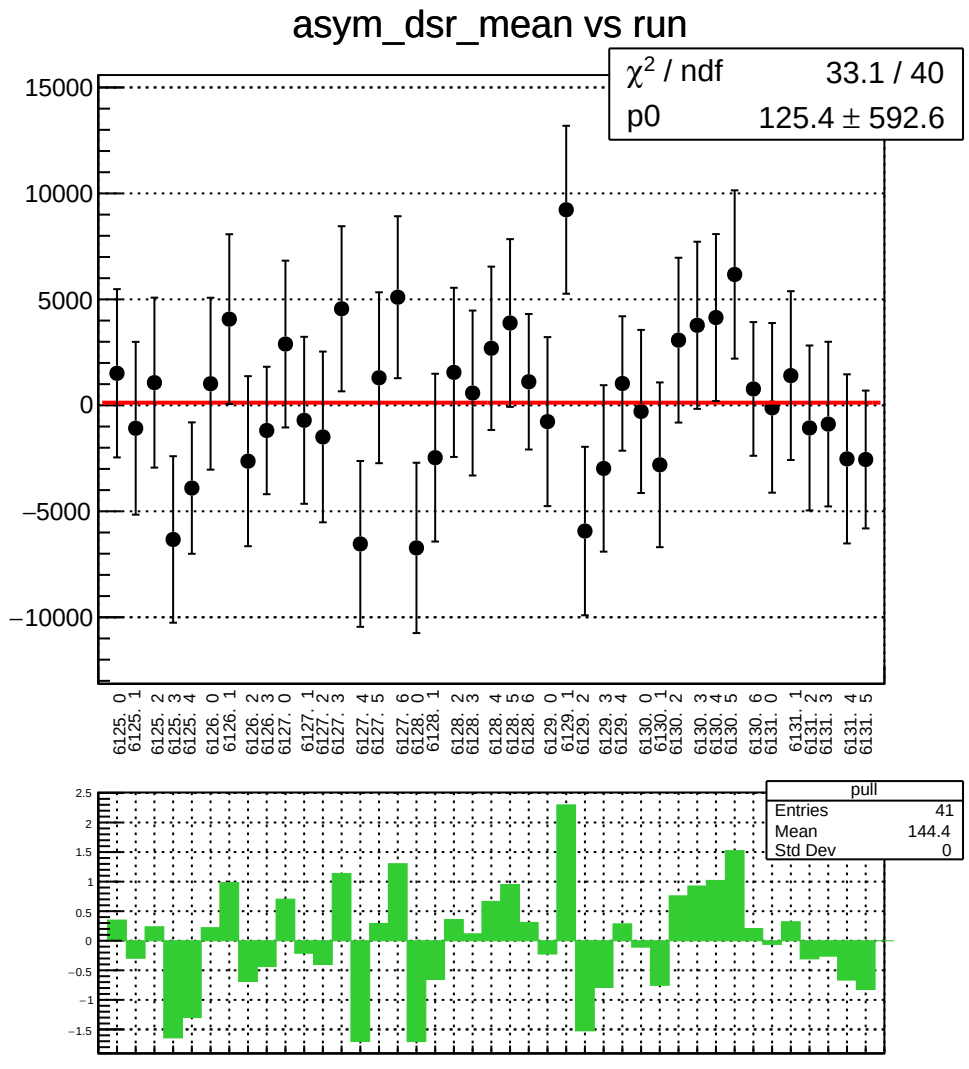

pull1D
Entries 41
Mean 0.03476
Std Dev 1.042

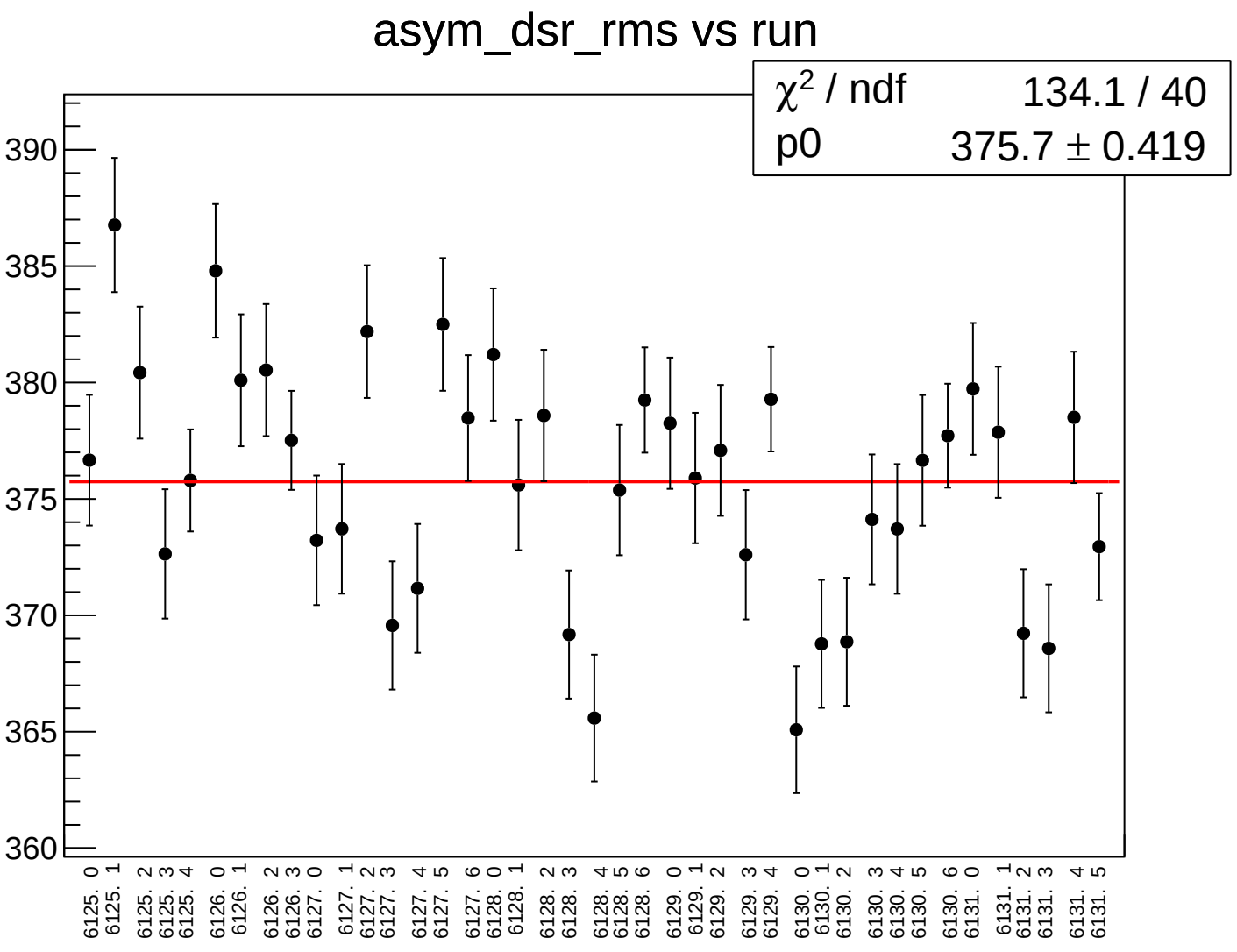

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.369e+04 / 40
p0 76.03 ± 0.08551
100
90
80
70
60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

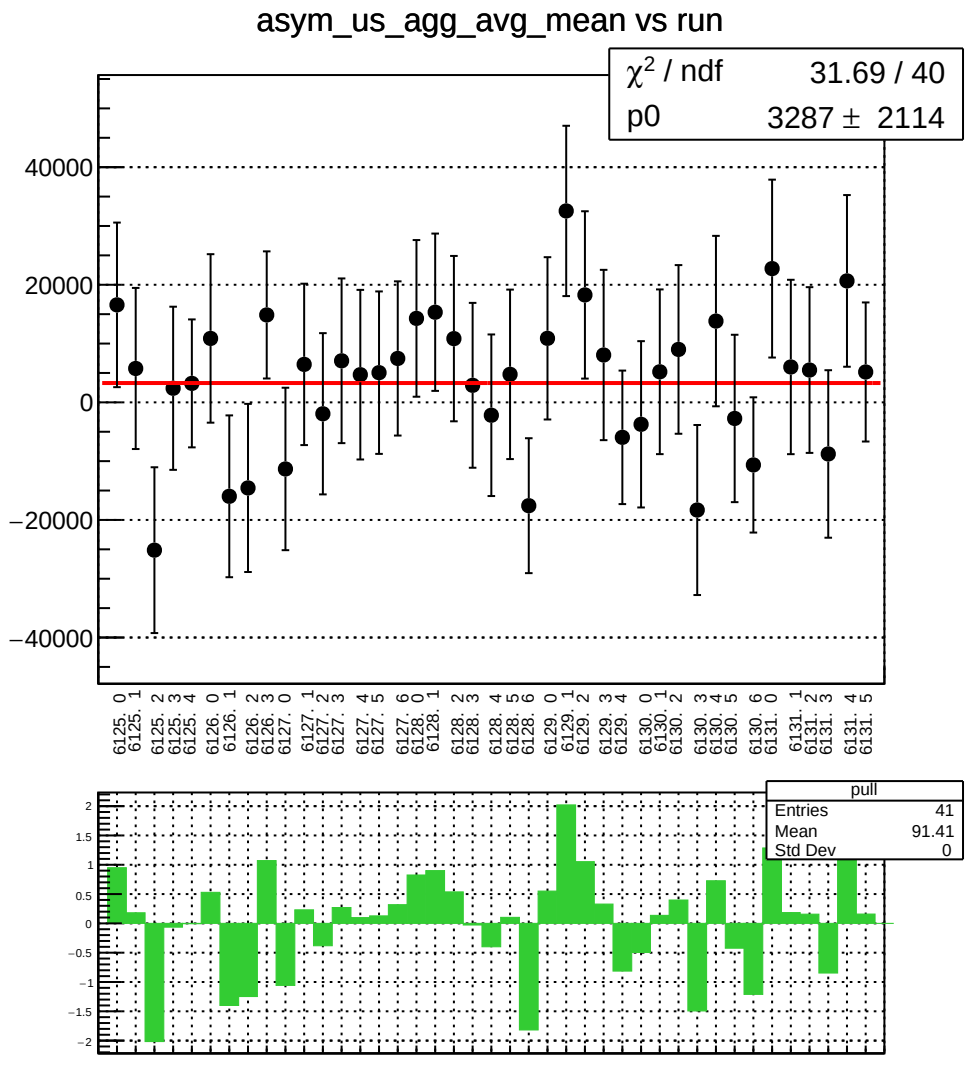

asym_dsl_mean vs run
χ² / ndf 51.47 / 40
p0 38.53 ± 509.5
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 15.58
Std Dev 55.83
2
1
0
−1
−2

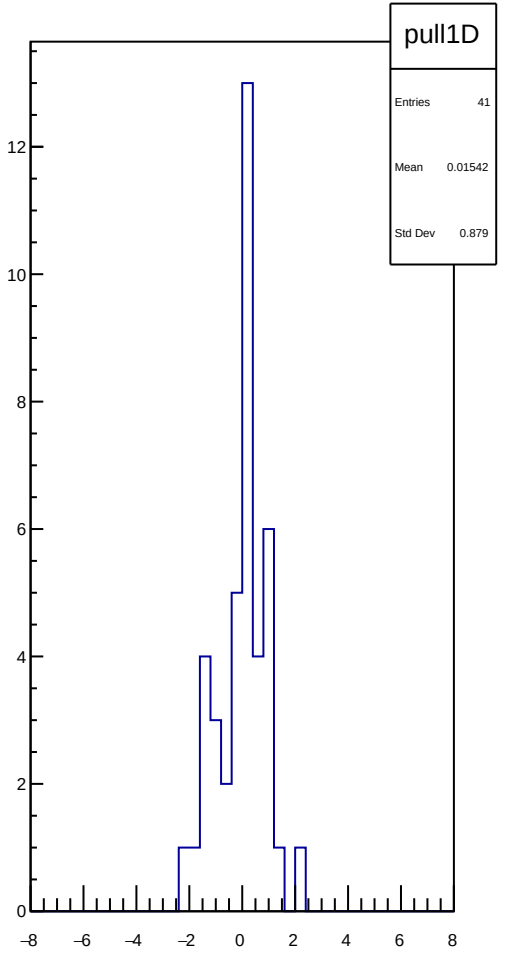

pull1D
Entries 41
Mean −0.007184
Std Dev 1.12
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

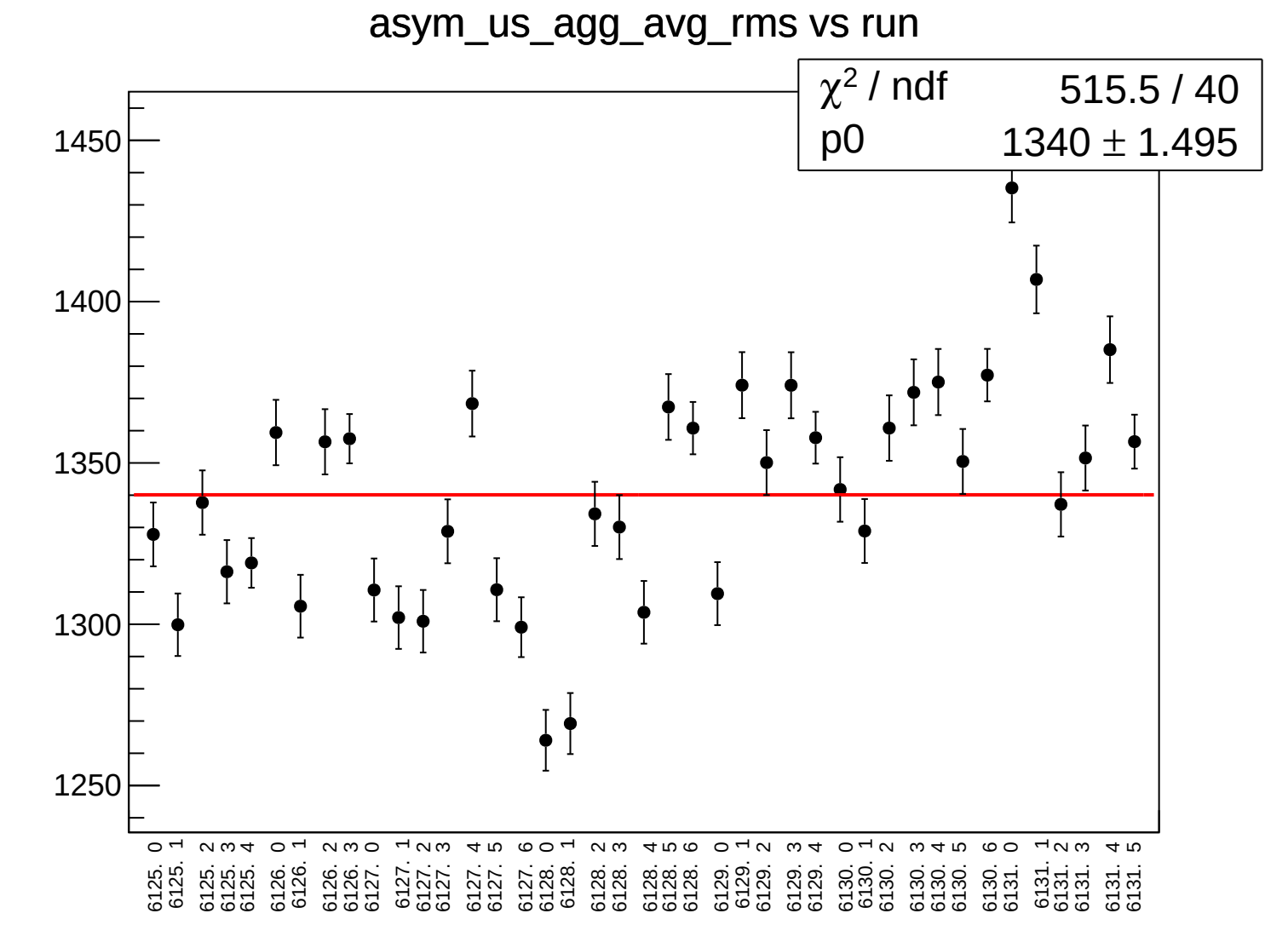

asym_dsl_rms vs run
χ² / ndf 63.11 / 40
p0 323.1 ± 0.3603
335
330
325
320
315
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

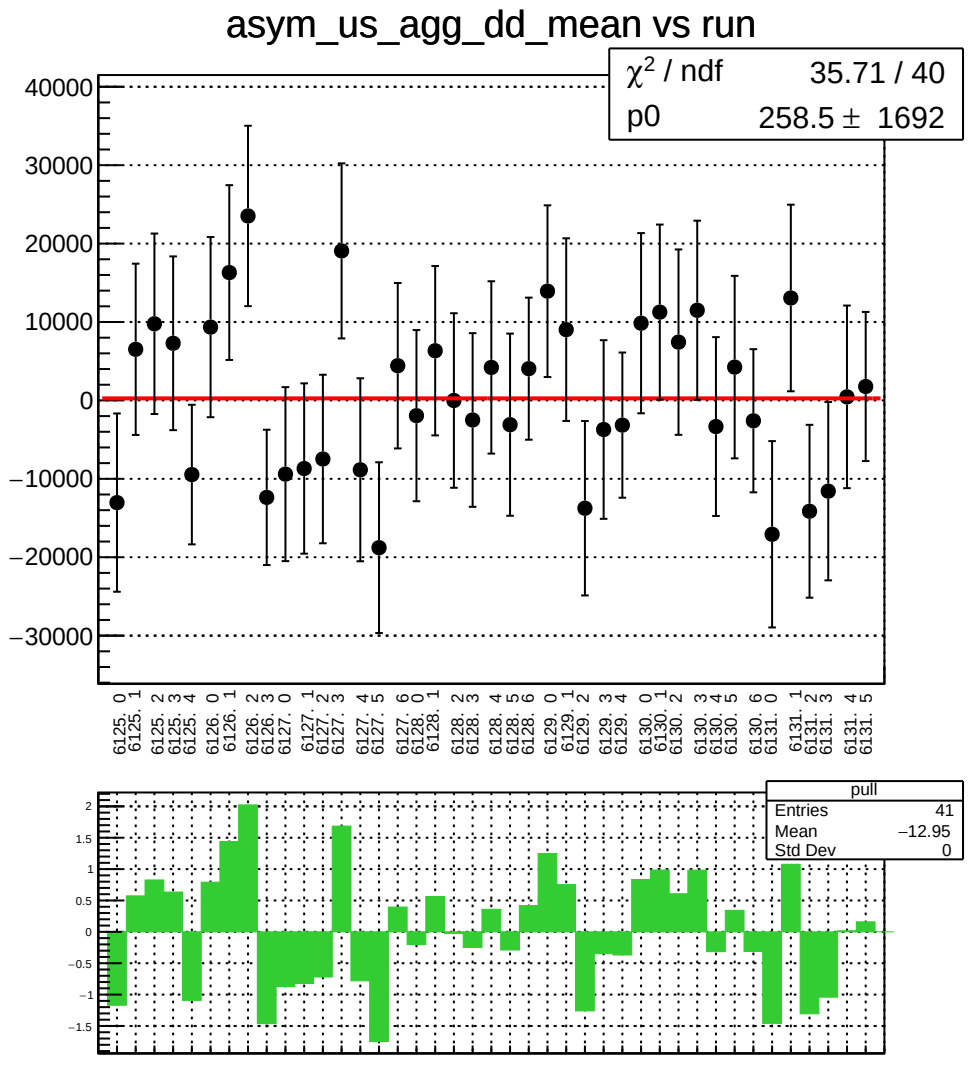

asym_dsr_mean vs run
χ² / ndf 33.1 / 40
p0 125.4 ± 592.6
15000
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 144.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.009982
Std Dev 0.8984
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

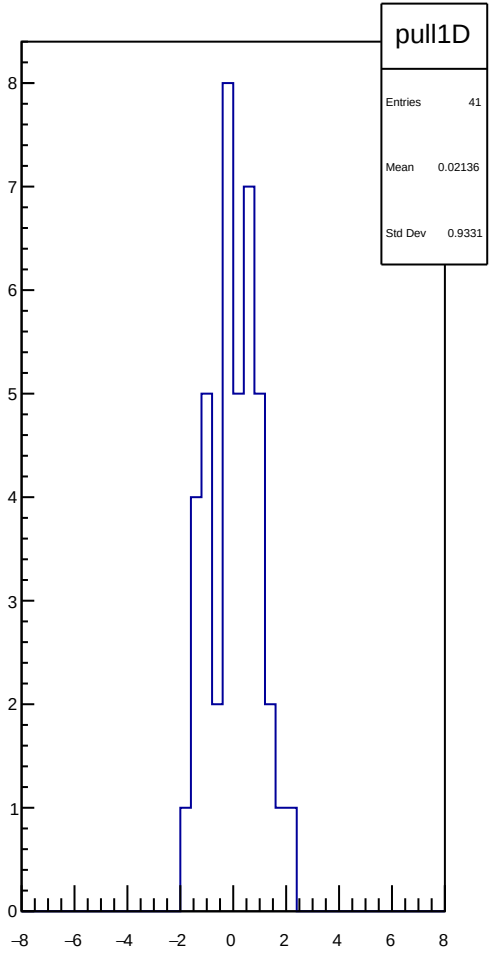

asym_dsr_rms vs run
χ² / ndf 134.1 / 40
p0 375.7 ± 0.419
390
385
380
375
370
365
360
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

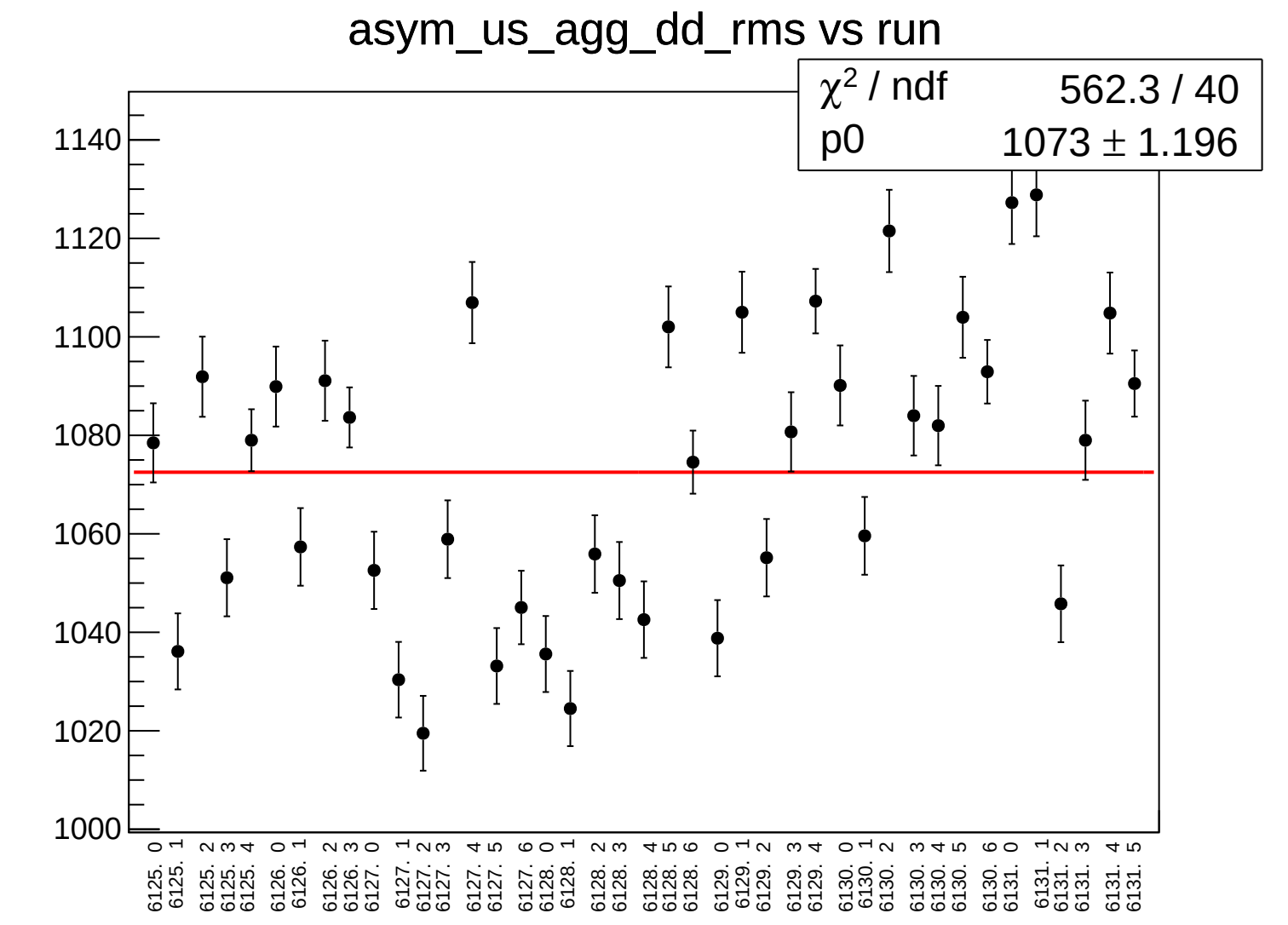

asym_us_agg_avg_mean vs run
χ² / ndf 31.69 / 40
p0 3287 ± 2114
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 91.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

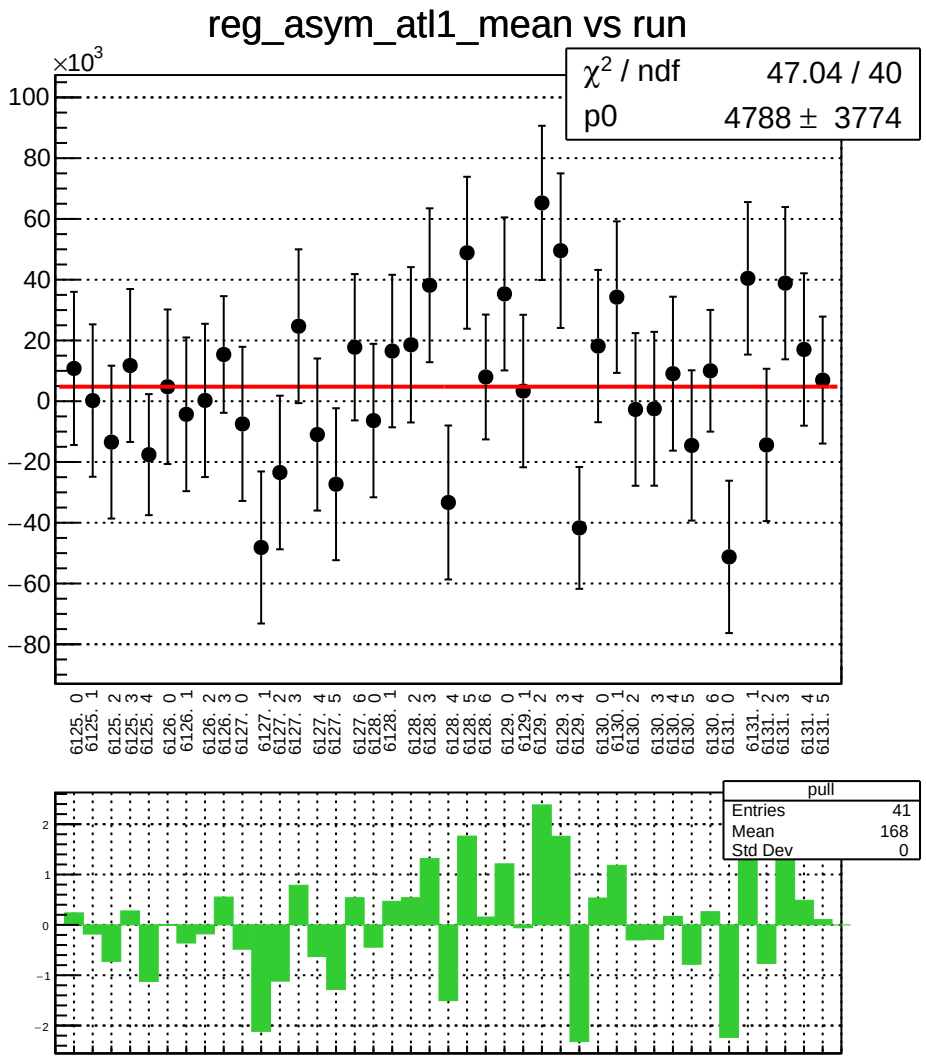

pull1D
Entries 41
Mean 0.01542
Std Dev 0.879
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

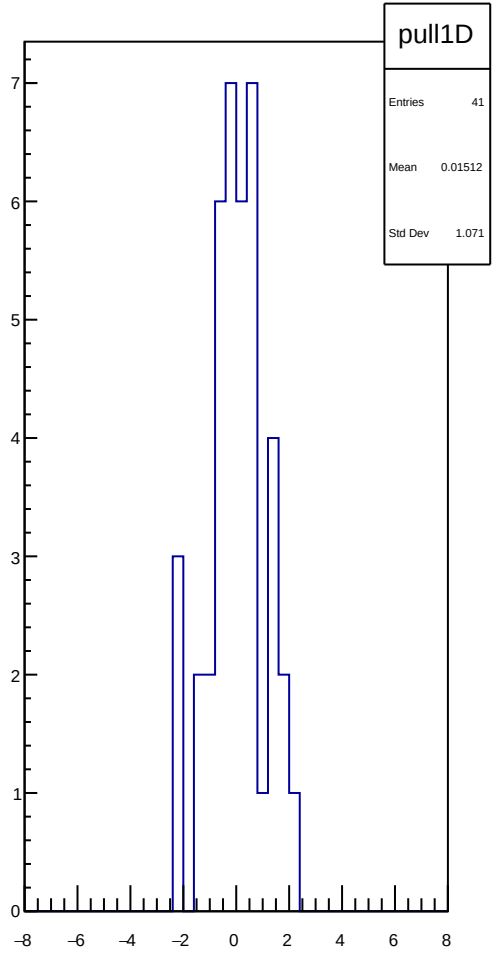

asym_us_agg_avg_rms vs run
χ² / ndf 515.5 / 40
p0 1340 ± 1.495
1450
1400
1350
1300
1250
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

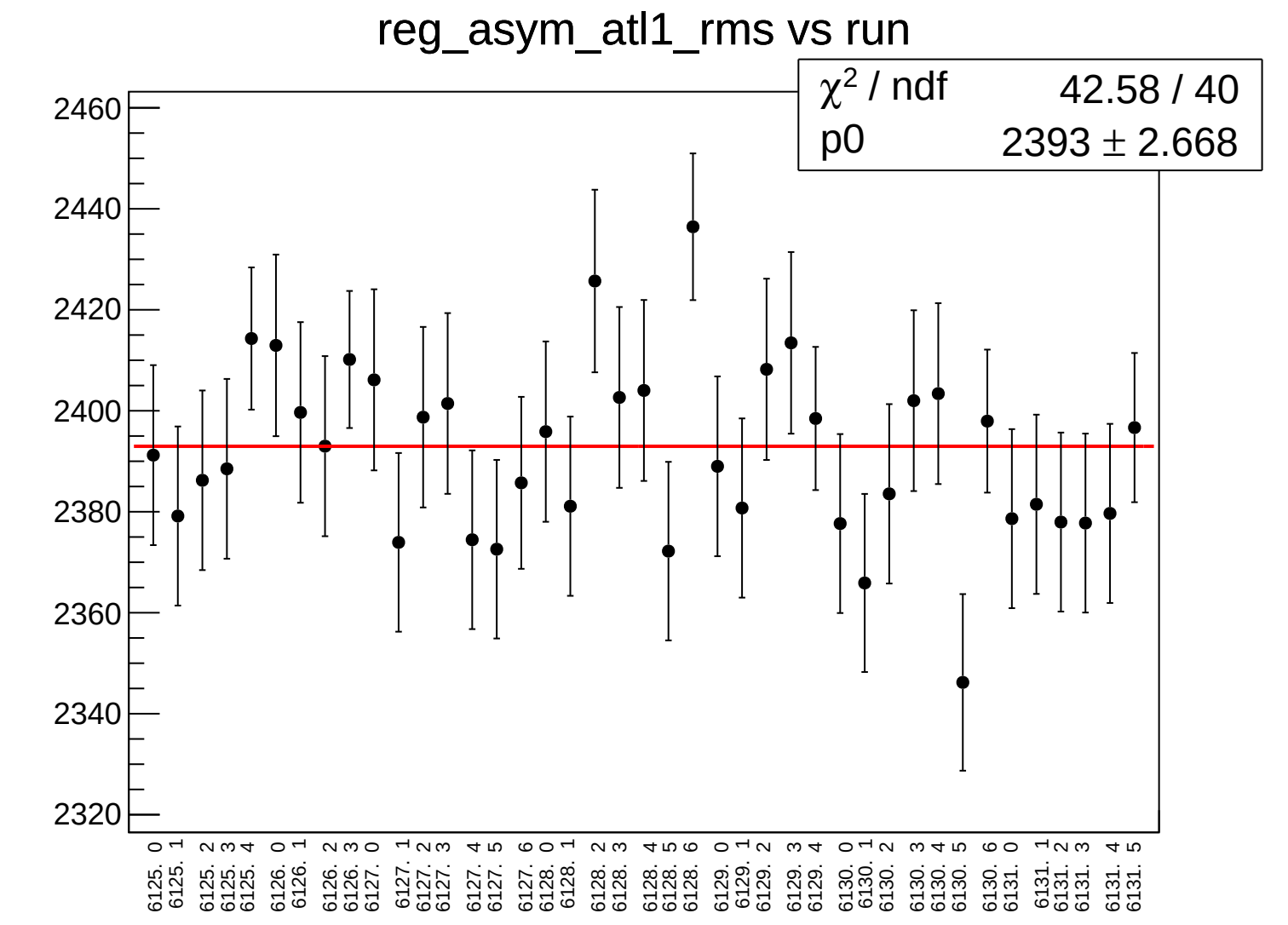

asym_us_agg_dd_mean vs run
χ² / ndf 35.71 / 40
p0 258.5 ± 1692
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −12.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

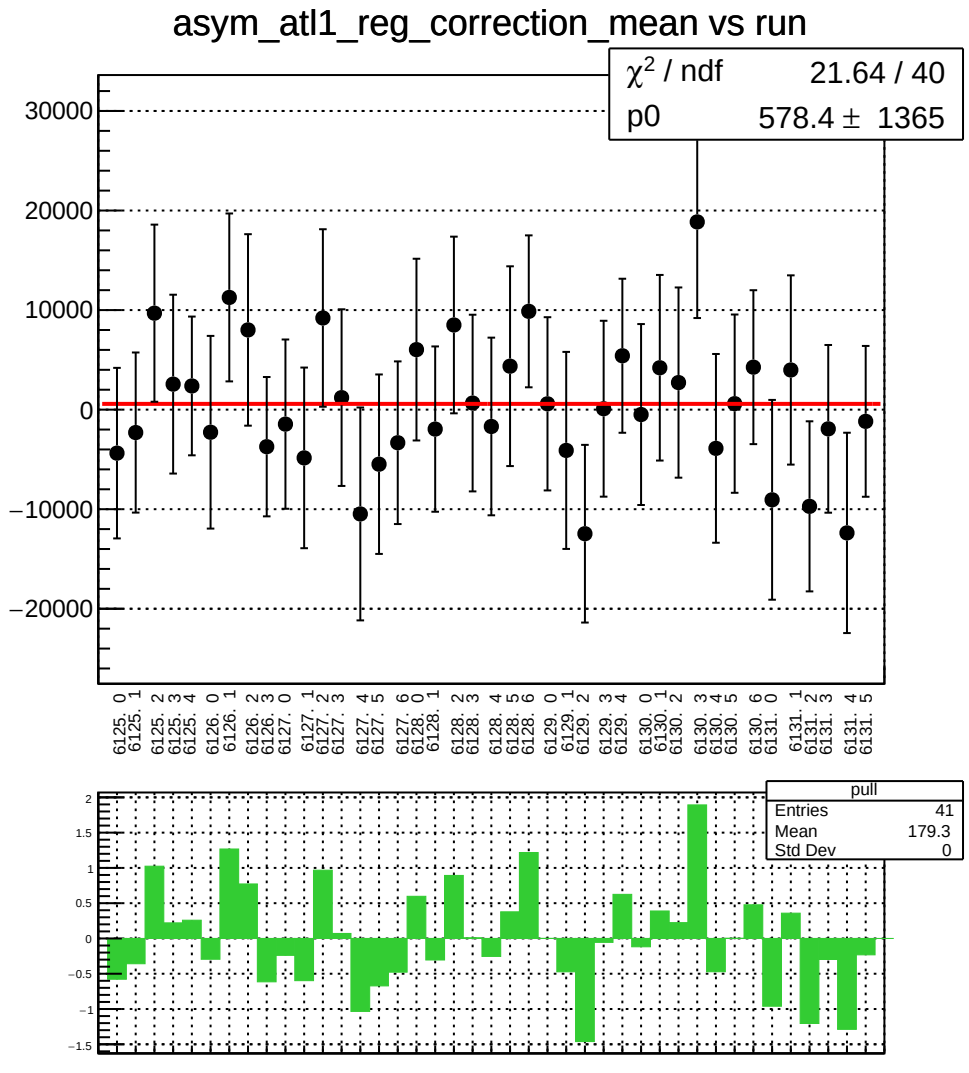

pull1D
Entries 41
Mean 0.02136
Std Dev 0.9331
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

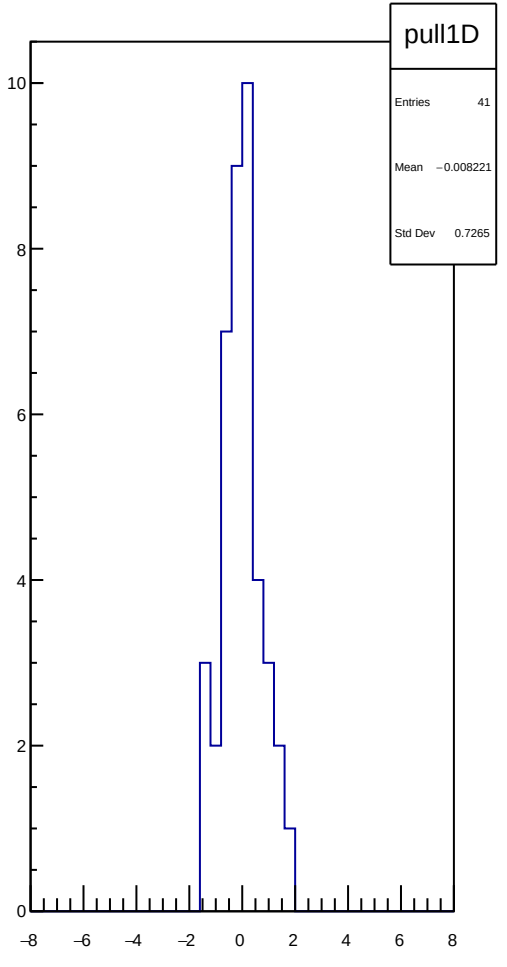

asym_us_agg_dd_rms vs run
χ² / ndf 562.3 / 40
p0 1073 ± 1.196
1140
1120
1100
1080
1060
1040
1020
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

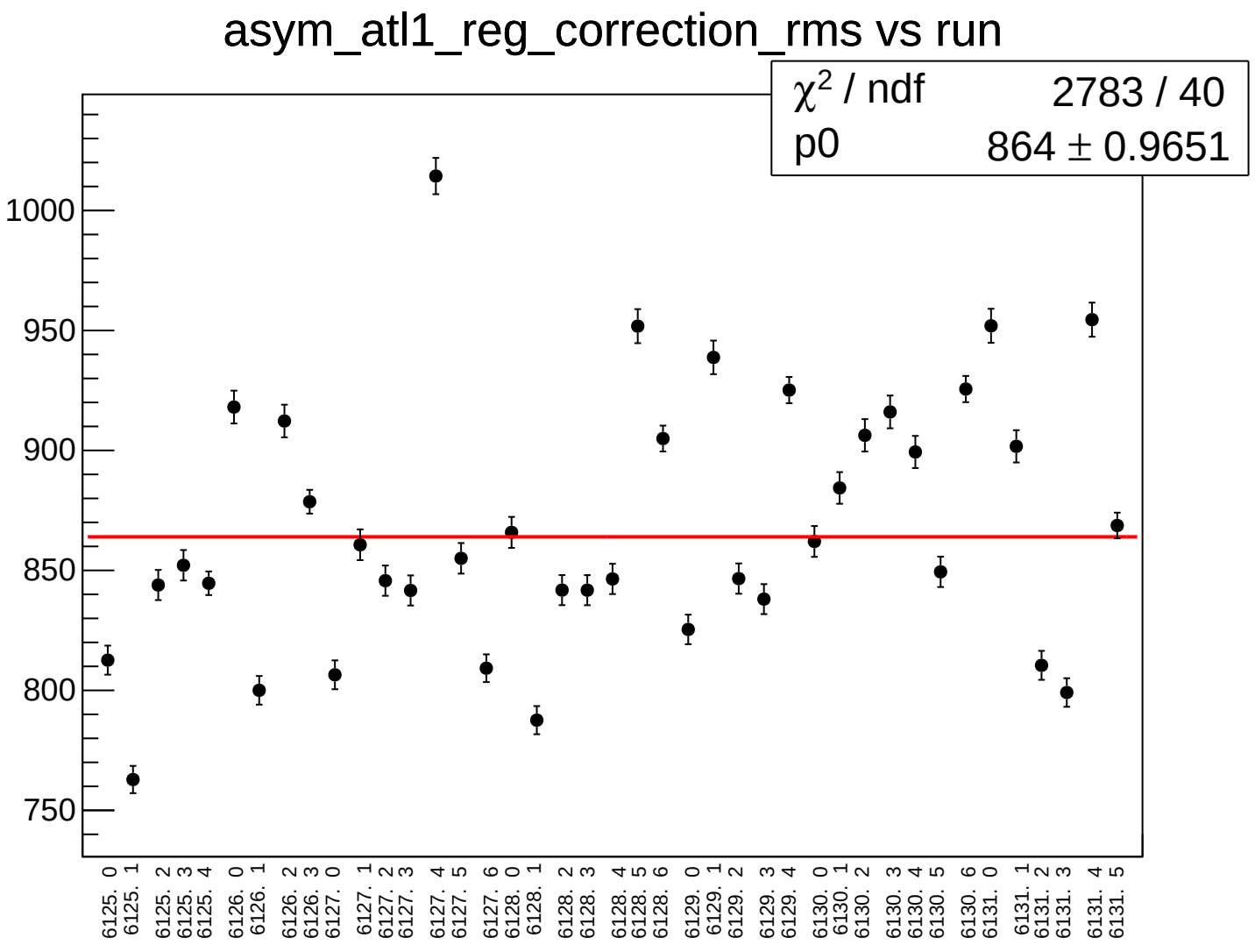

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 47.04 / 40
p0 4788 ± 3774
100
80
60
40
20
0
−20
−40
−60
−80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 168
Std Dev 0
2
1
0
−1
−2

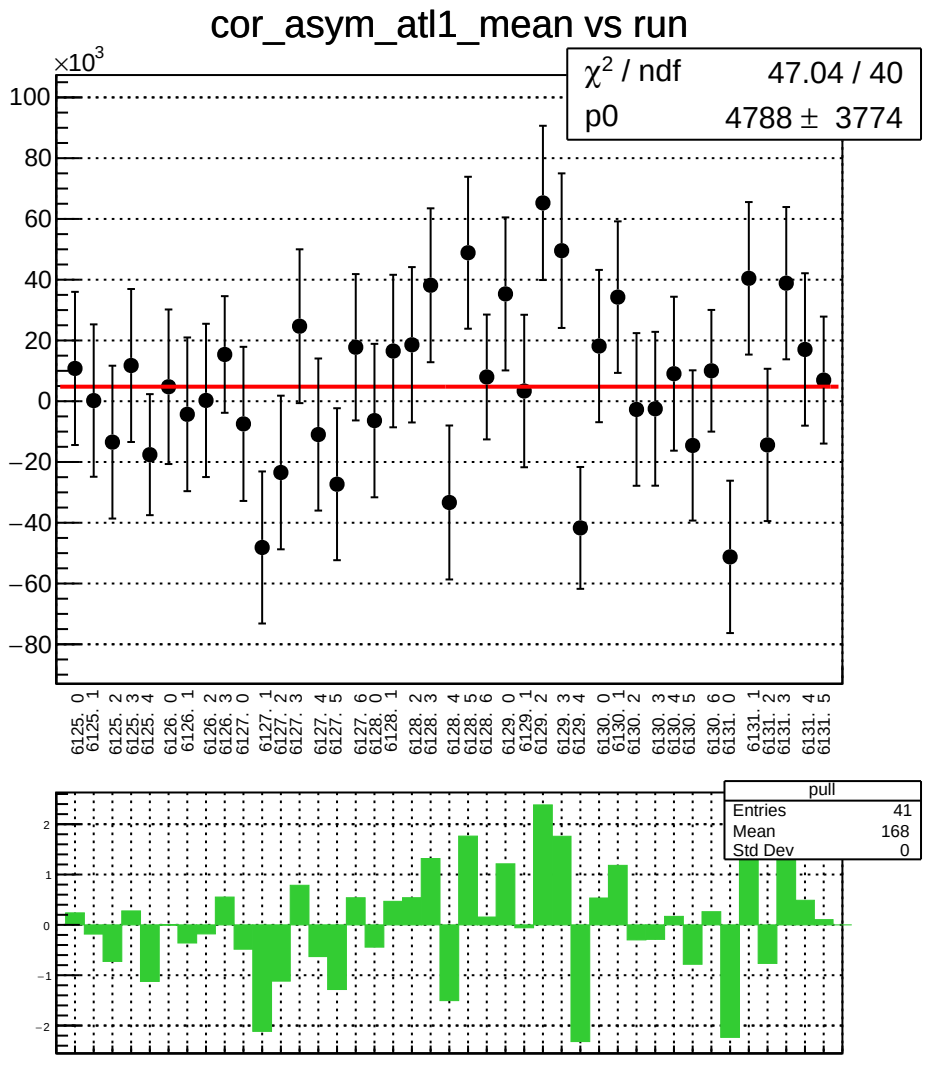

pull1D
Entries 41
Mean 0.01512
Std Dev 1.071
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

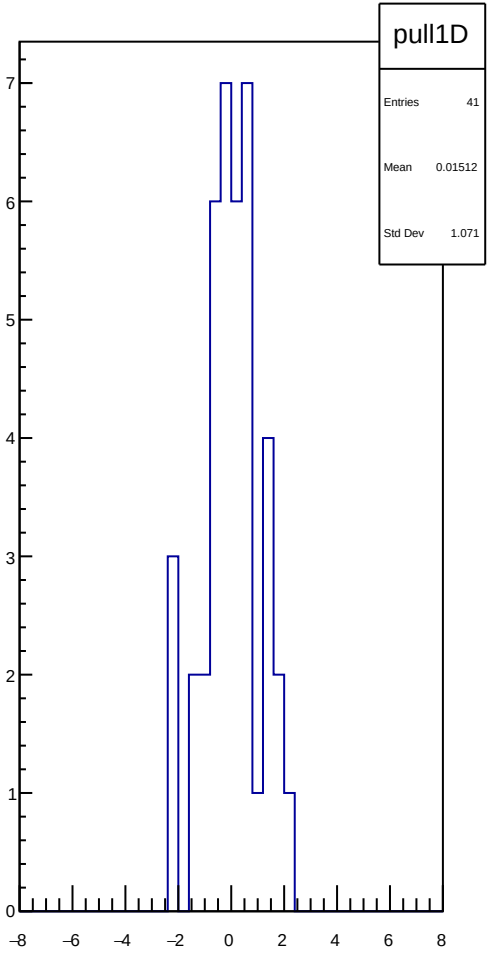

reg_asym_atl1_rms vs run
χ² / ndf 42.58 / 40
p0 2393 ± 2.668
2460
2440
2420
2400
2380
2360
2340
2320
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

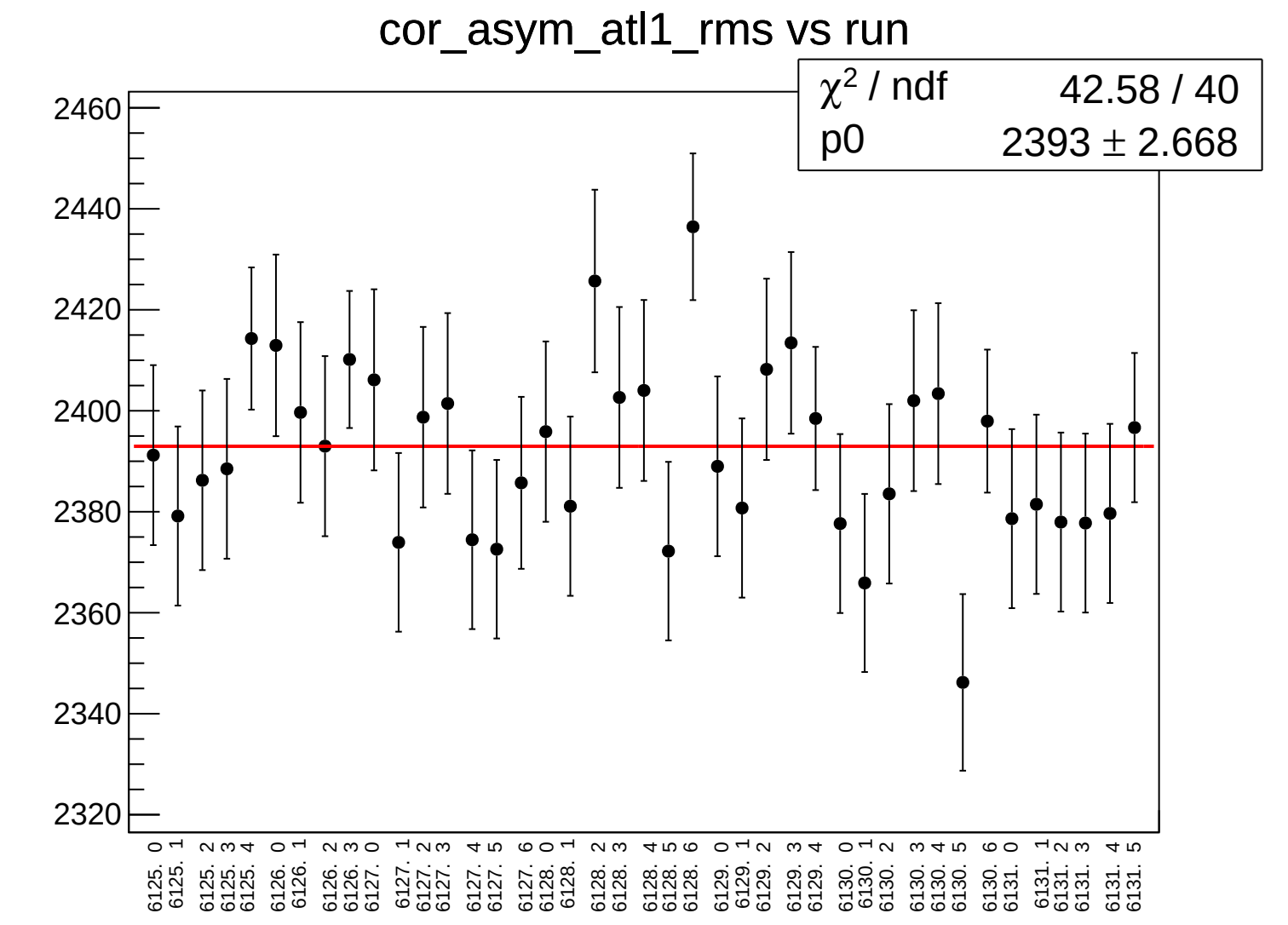

asym_atl1_reg_correction_mean vs run
χ² / ndf 21.64 / 40
p0 578.4 ± 1365
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 179.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

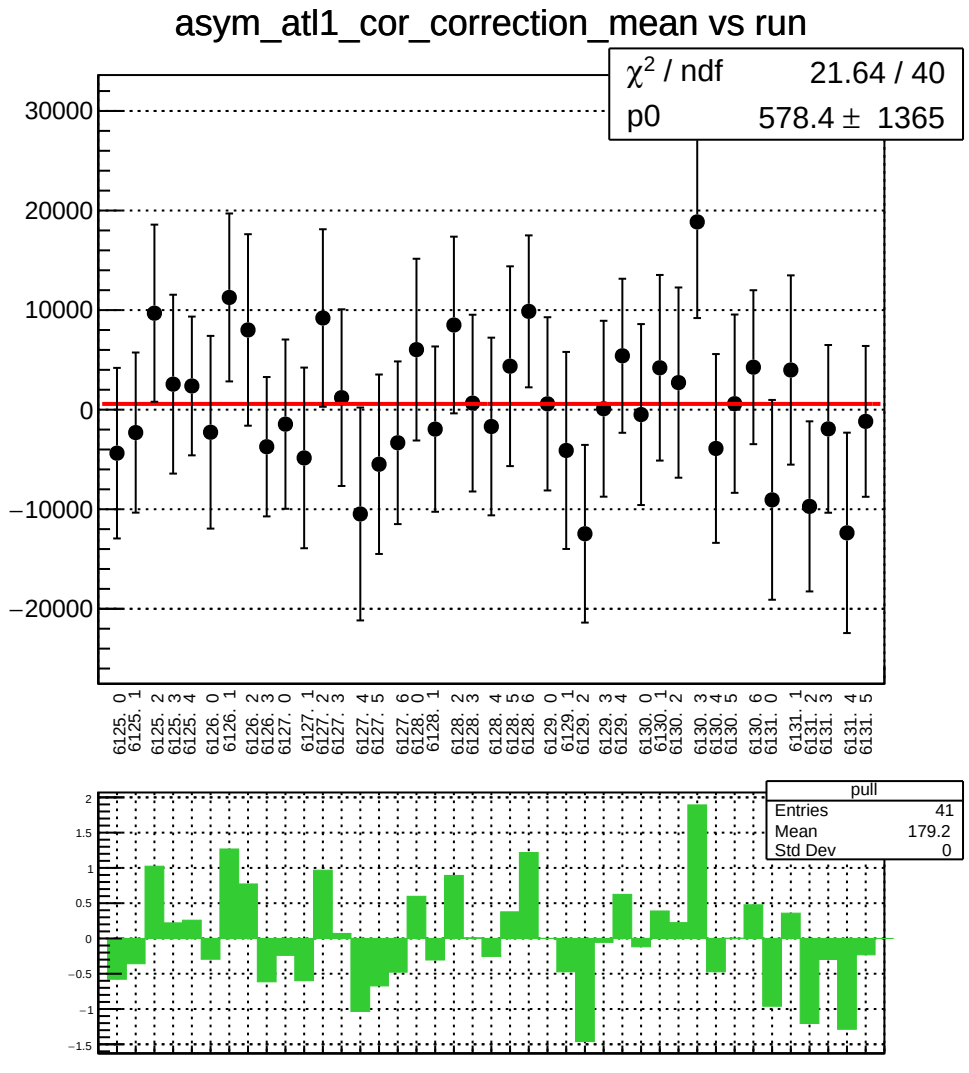

pull1D
Entries 41
Mean −0.008221
Std Dev 0.7265
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

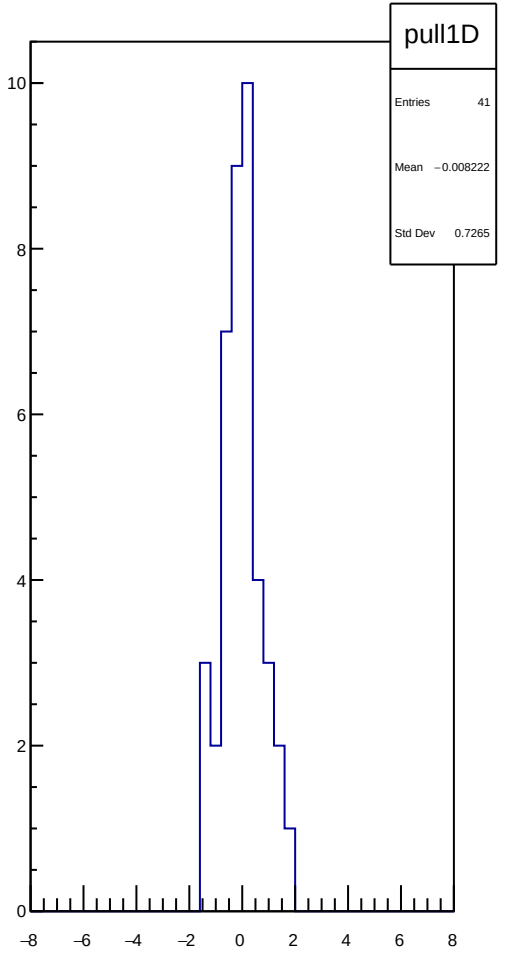

asym_atl1_reg_correction_rms vs run
χ² / ndf 2783 / 40
p0 864 ± 0.9651
1000
950
900
850
800
750
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

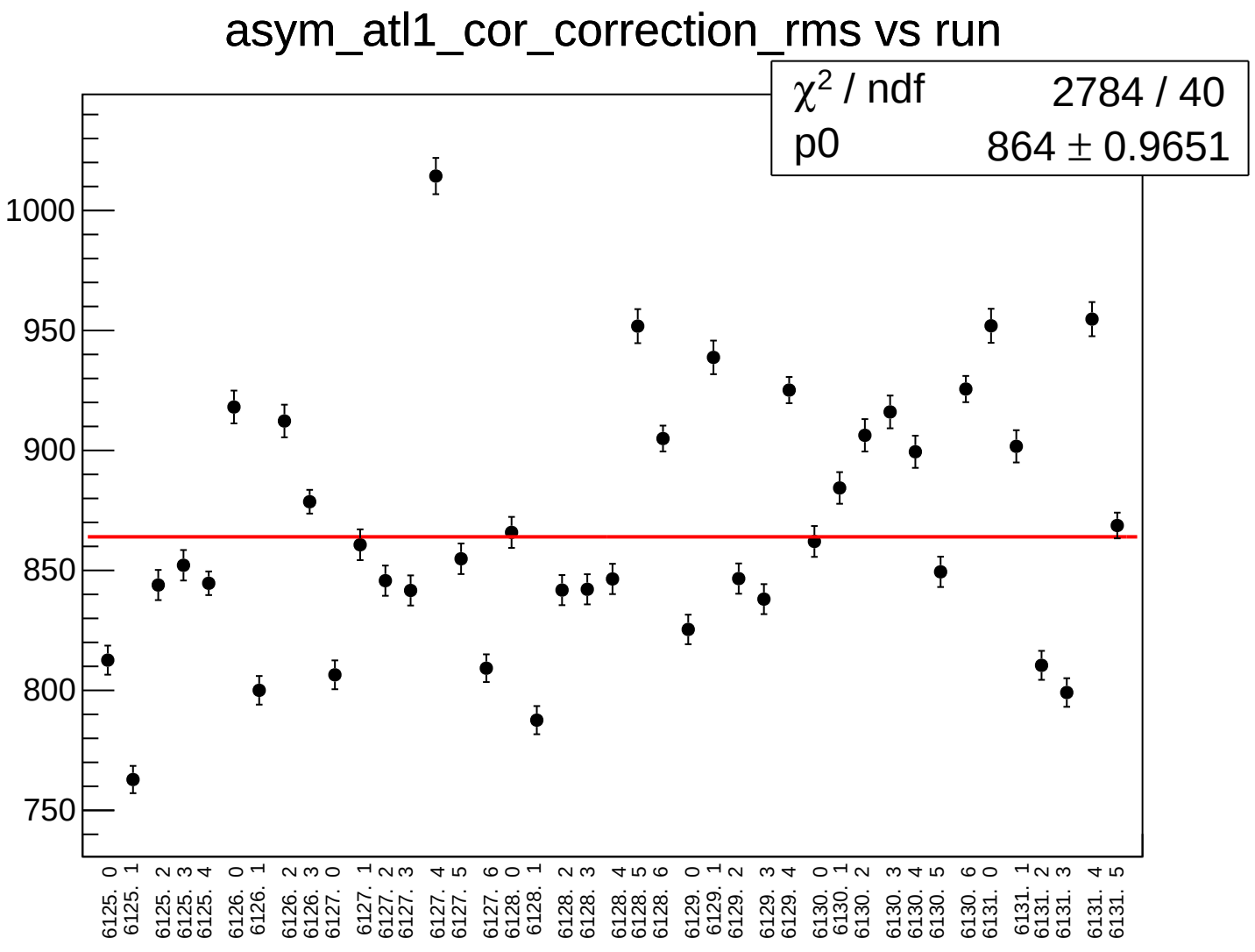

cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 47.04 / 40
p0 4788 ± 3774
100
80
60
40
20
0
−20
−40
−60
−80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 168
Std Dev 0
2
1
0
−1
−2

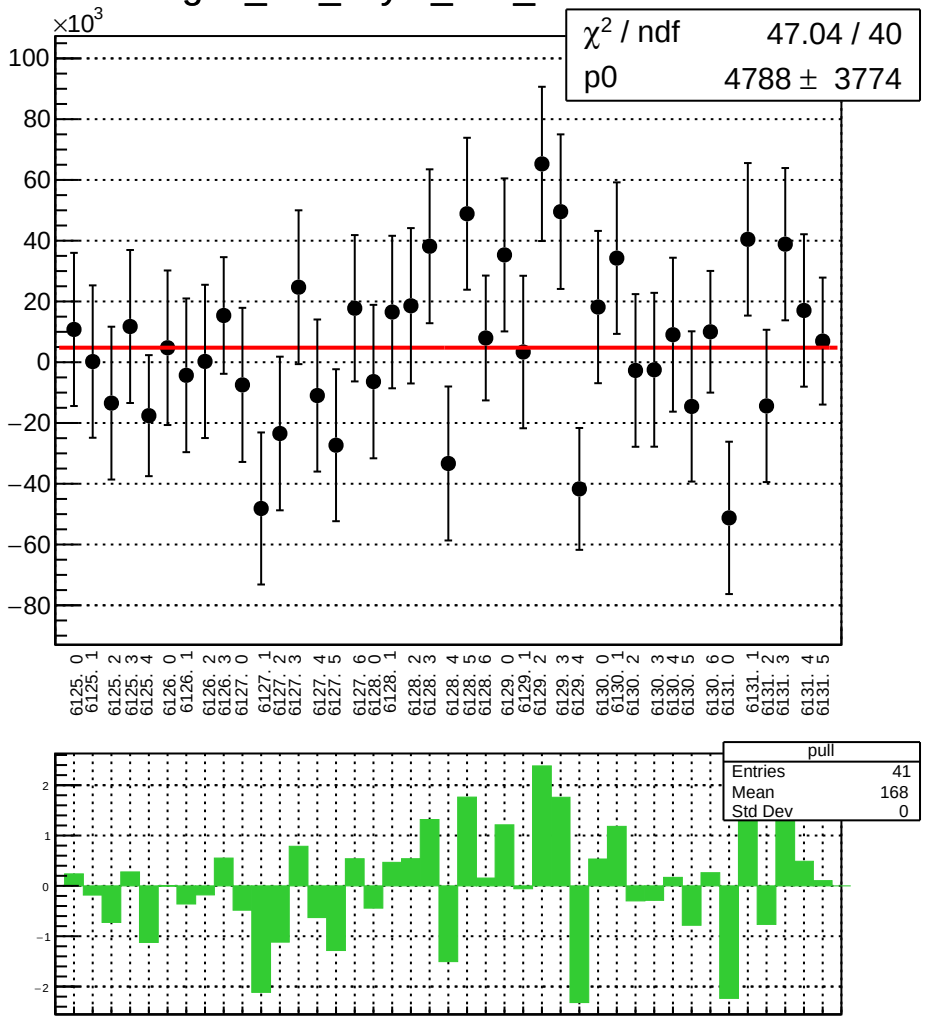

pull1D
Entries 41
Mean 0.01512
Std Dev 1.071
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

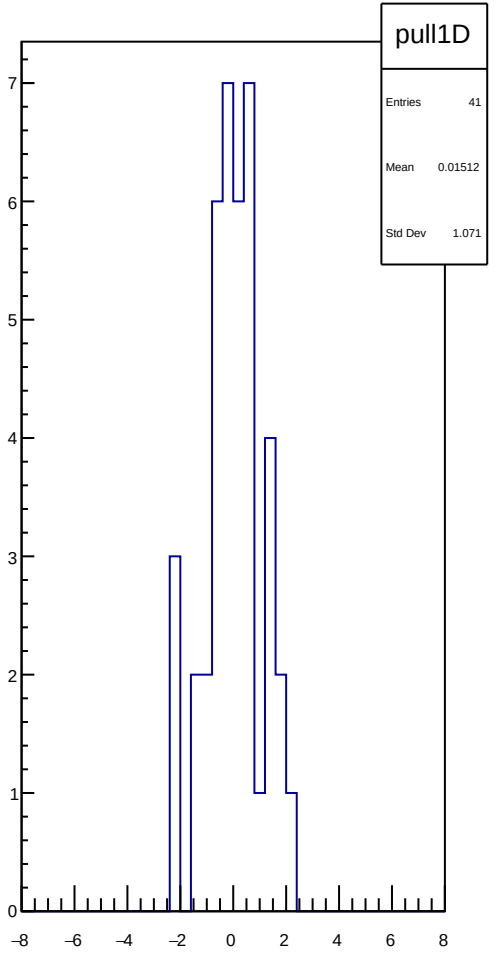

cor_asym_atl1_rms vs run
χ² / ndf 42.58 / 40
p0 2393 ± 2.668
2460
2440
2420
2400
2380
2360
2340
2320
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

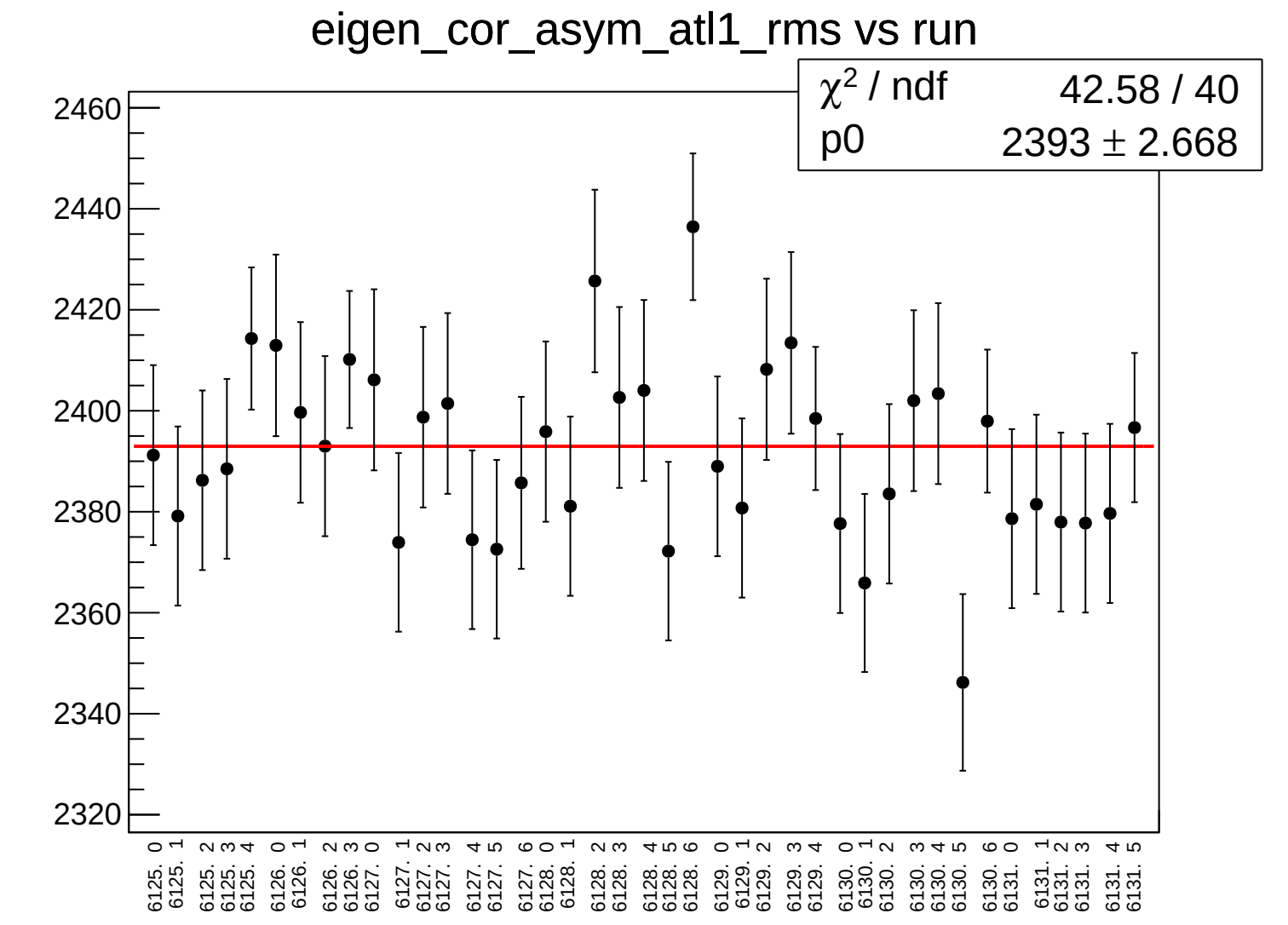

asym_atl1_cor_correction_mean vs run
χ² / ndf 21.64 / 40
p0 578.4 ± 1365
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 179.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

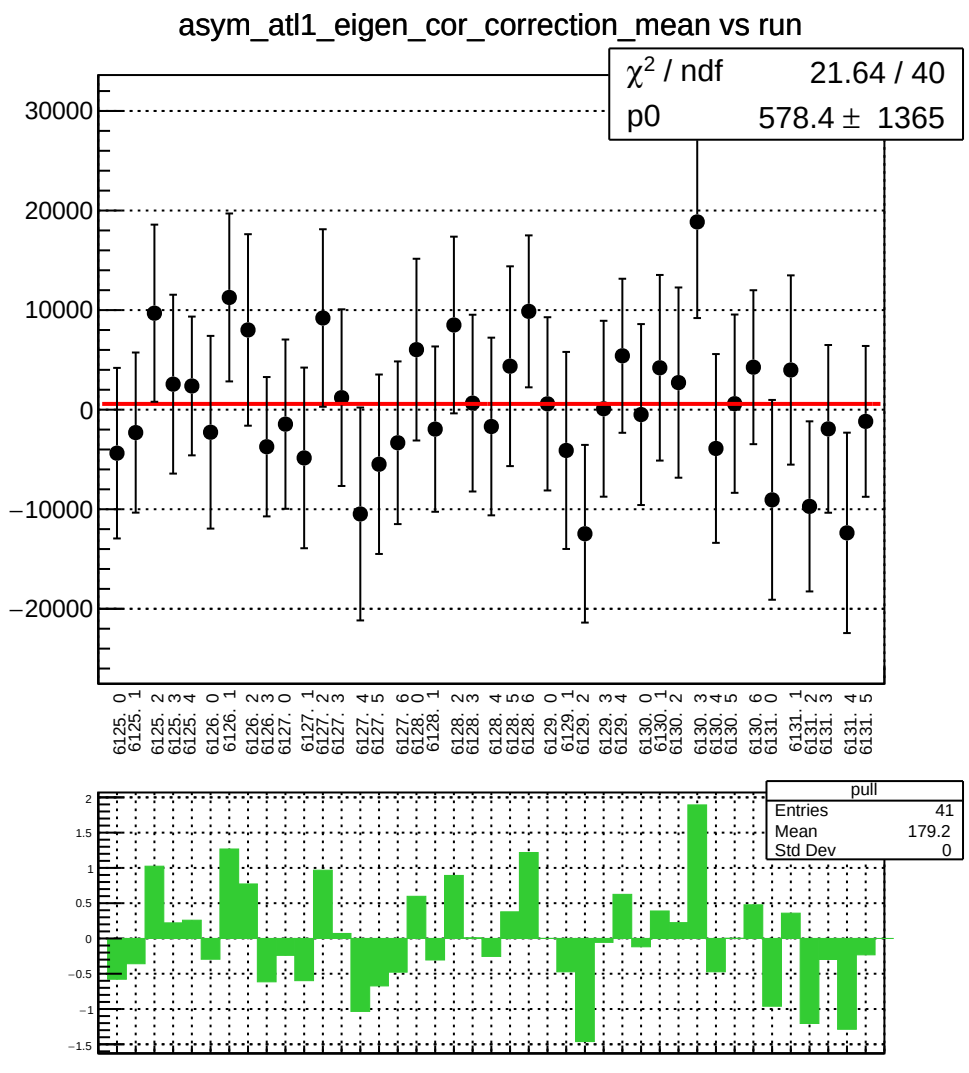

pull1D
Entries 41
Mean −0.008222
Std Dev 0.7265
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_cor_correction_rms vs run
χ² / ndf 2784 / 40
p0 864 ± 0.9651
1000
950
900
850
800
750
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_atl1_mean vs run
×10^3
χ² / ndf 47.04 / 40
p0 4788 ± 3774
pull
Entries 41
Mean 168
Std Dev 0


pull1D
Entries 41
Mean 0.01512
Std Dev 1.071


eigen_cor_asym_atl1_rms vs run
χ² / ndf 42.58 / 40
p0 2393 ± 2.668
2460
2440
2420
2400
2380
2360
2340
2320
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 21.64 / 40
p0 578.4 ± 1365
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
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6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
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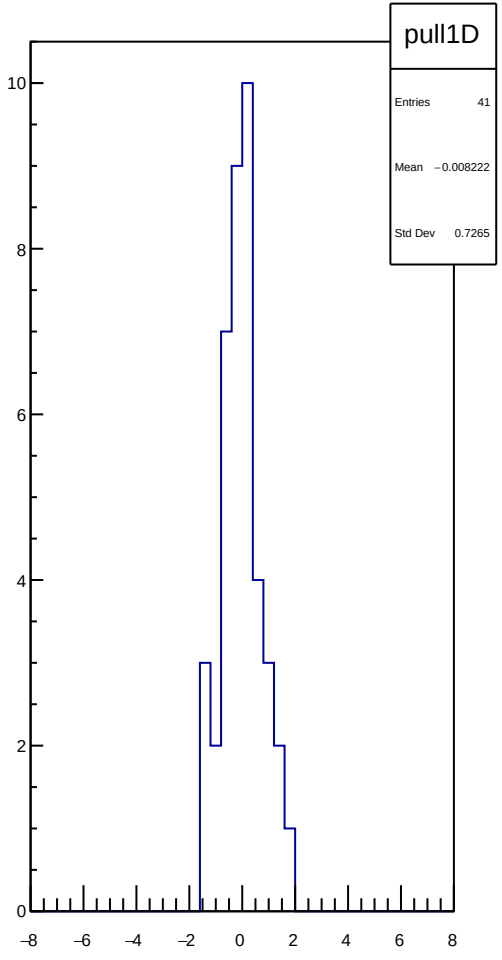
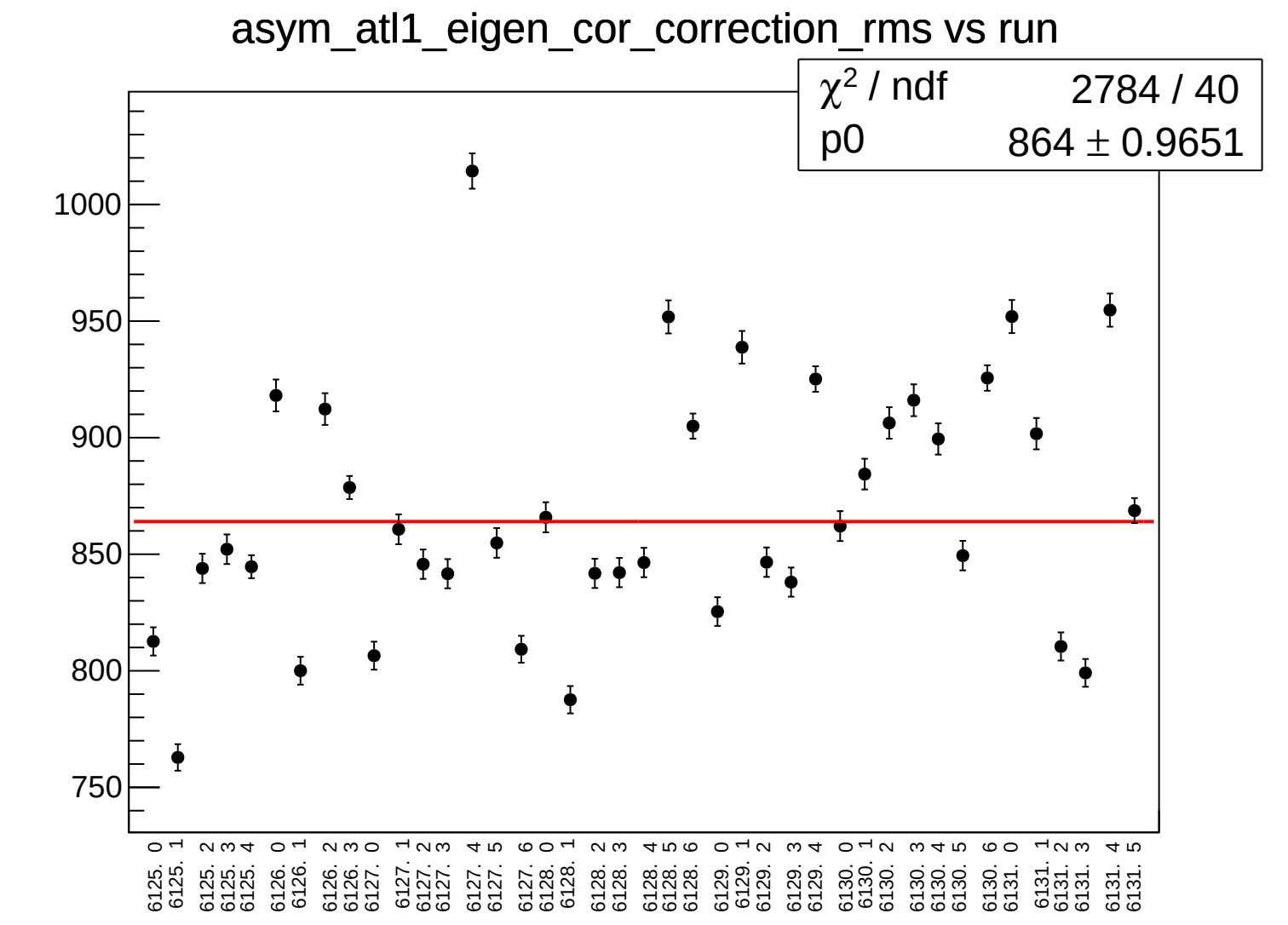
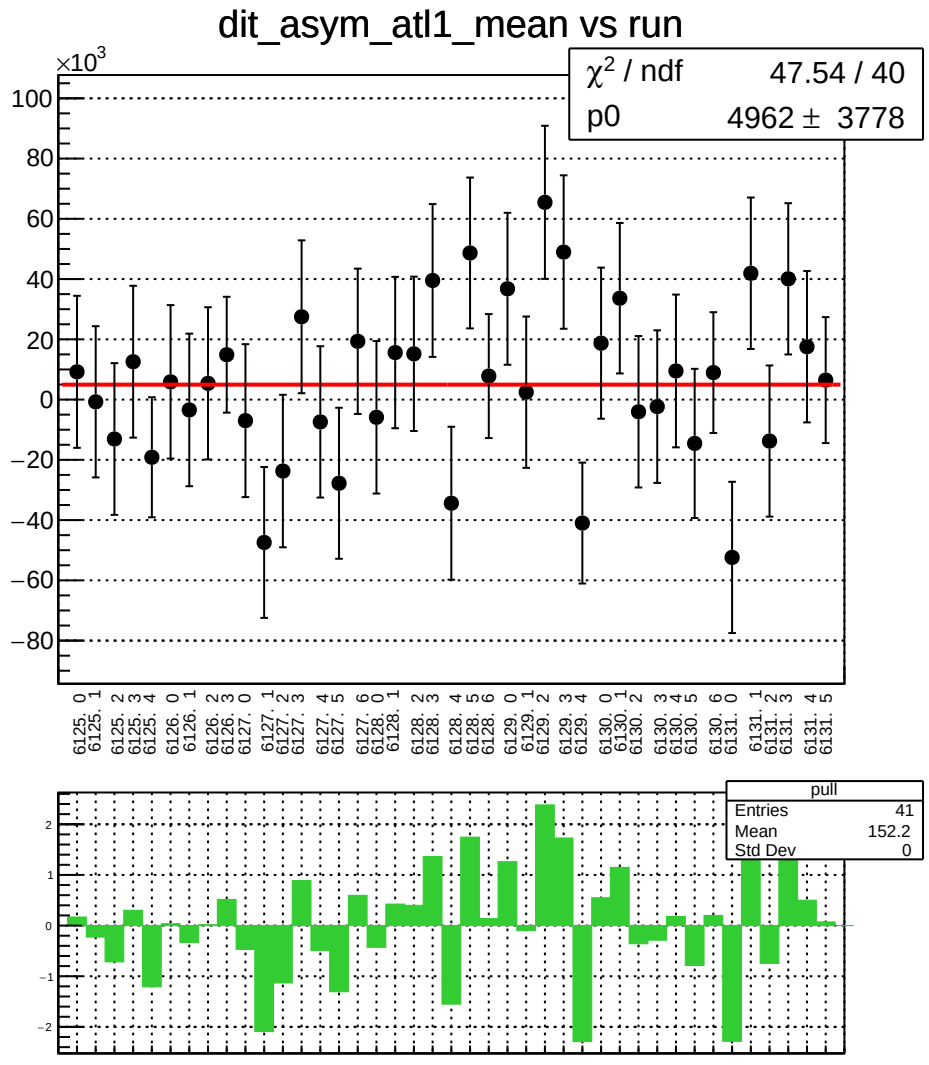
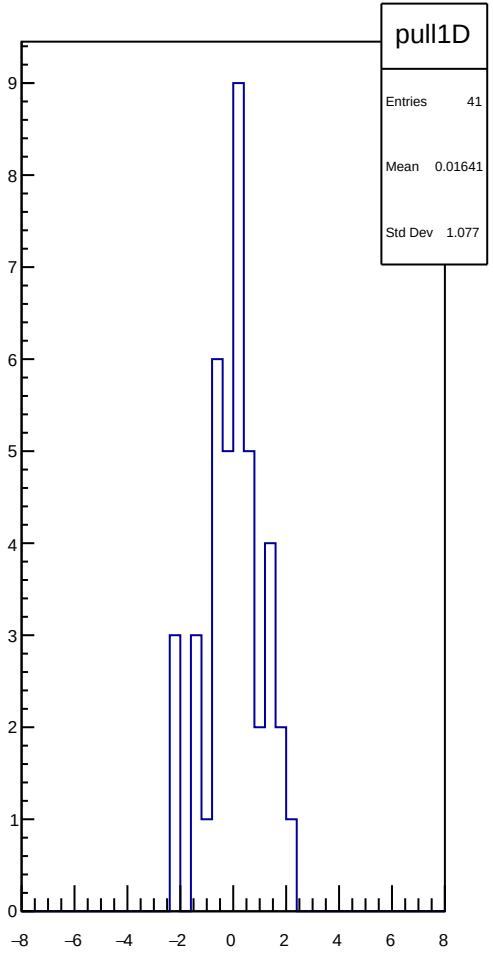
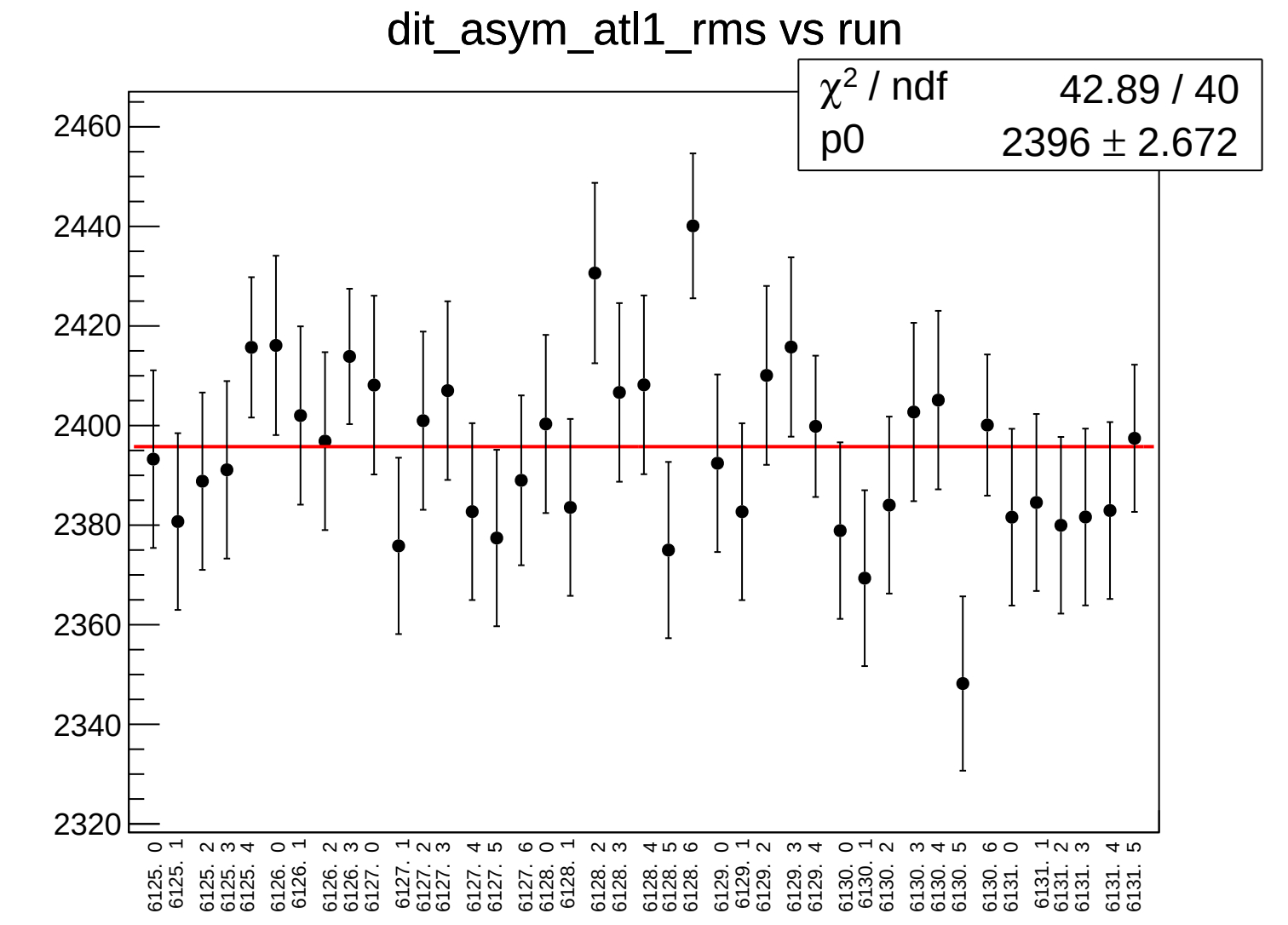
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 179.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

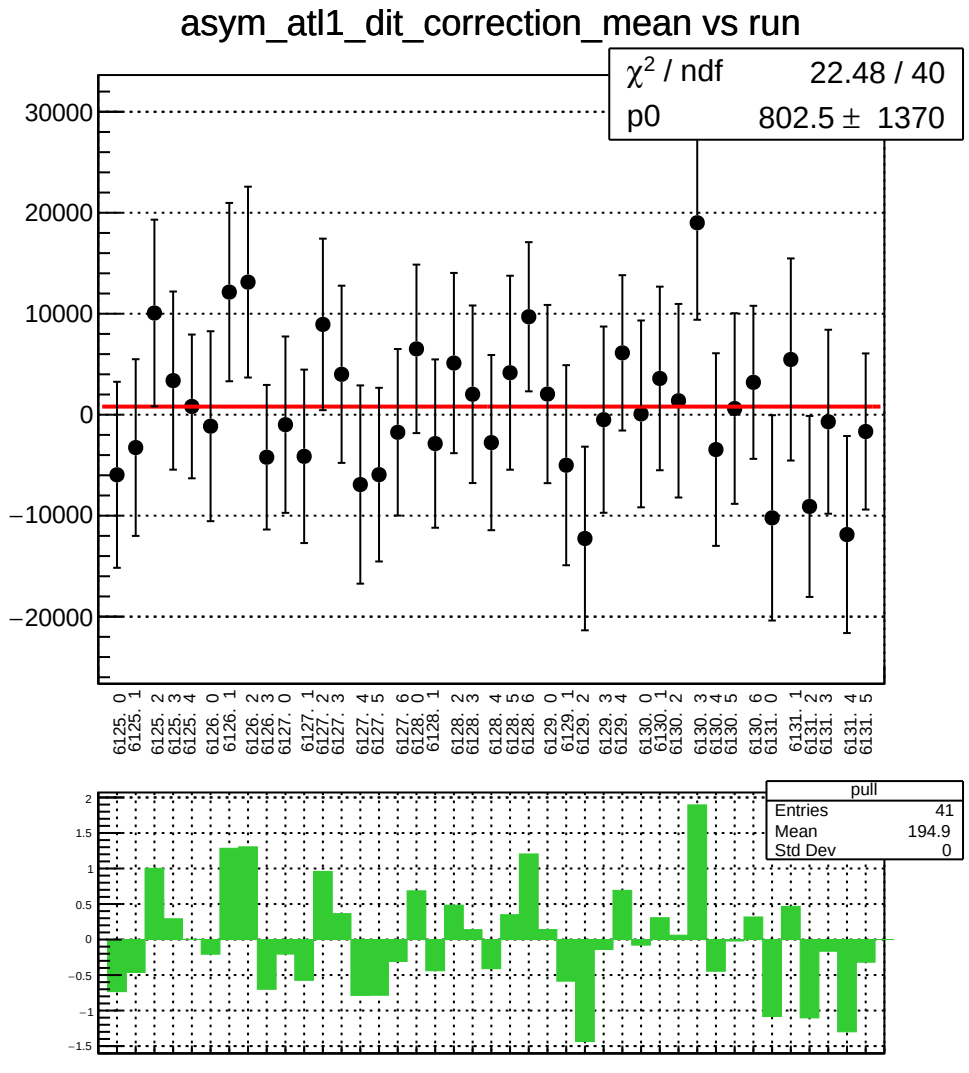

pull1D
Entries 41
Mean −0.008222
Std Dev 0.7265
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

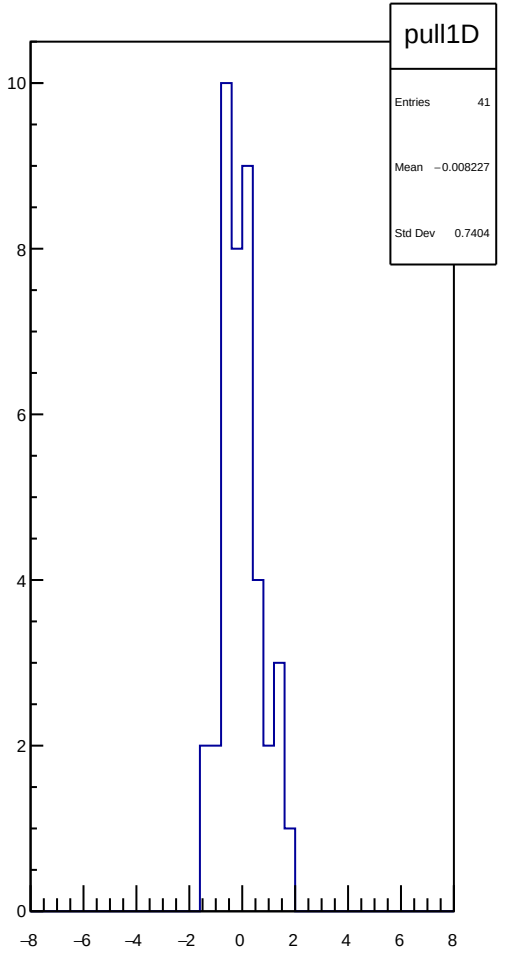

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 2784 / 40
p0 864 ± 0.9651
1000
950
900
850
800
750
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

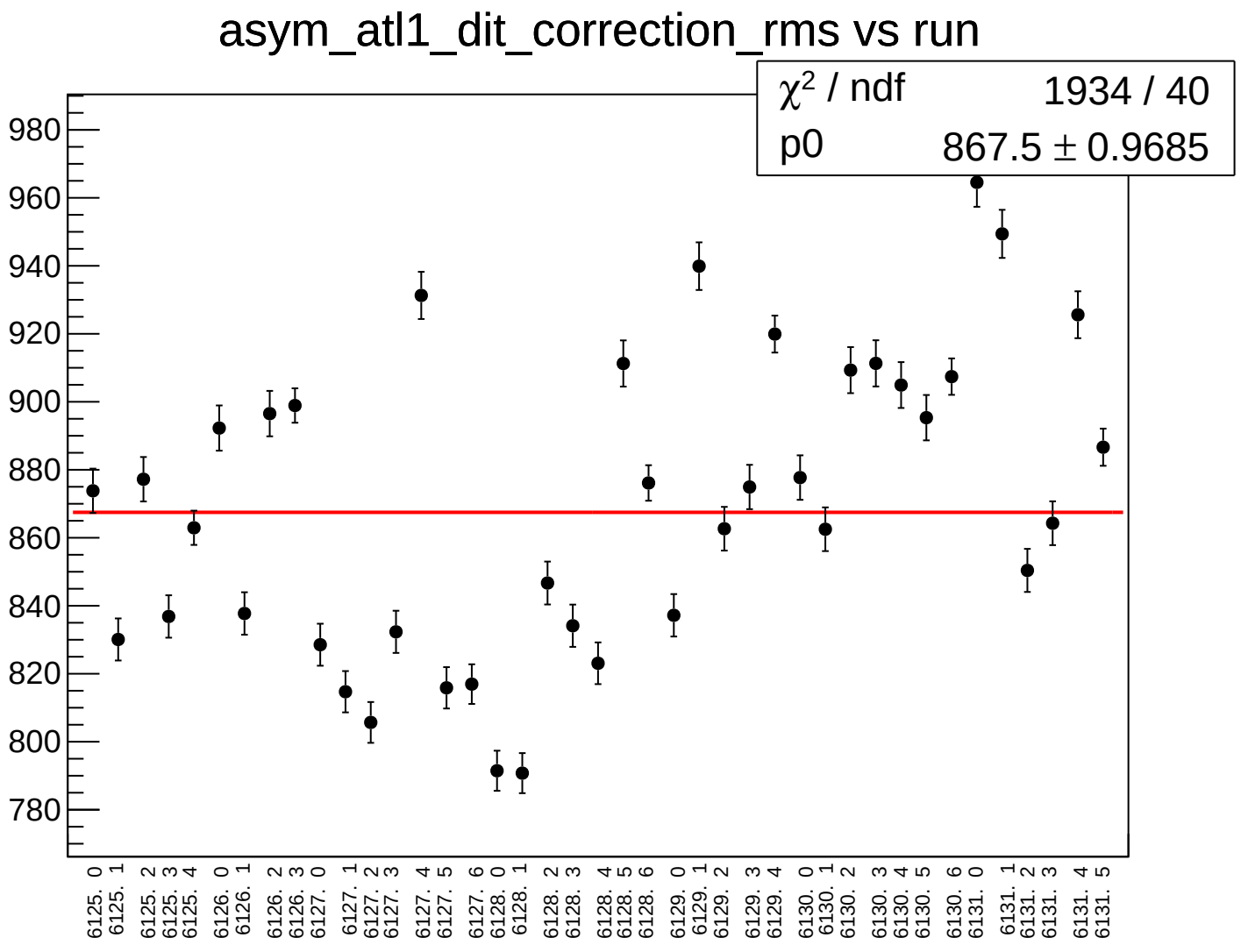

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 47.54 / 40
p0 4962 ± 3778
100
80
60
40
20
0
−20
−40
−60
−80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 152.2
Std Dev 0
2
1
0
−1
−2

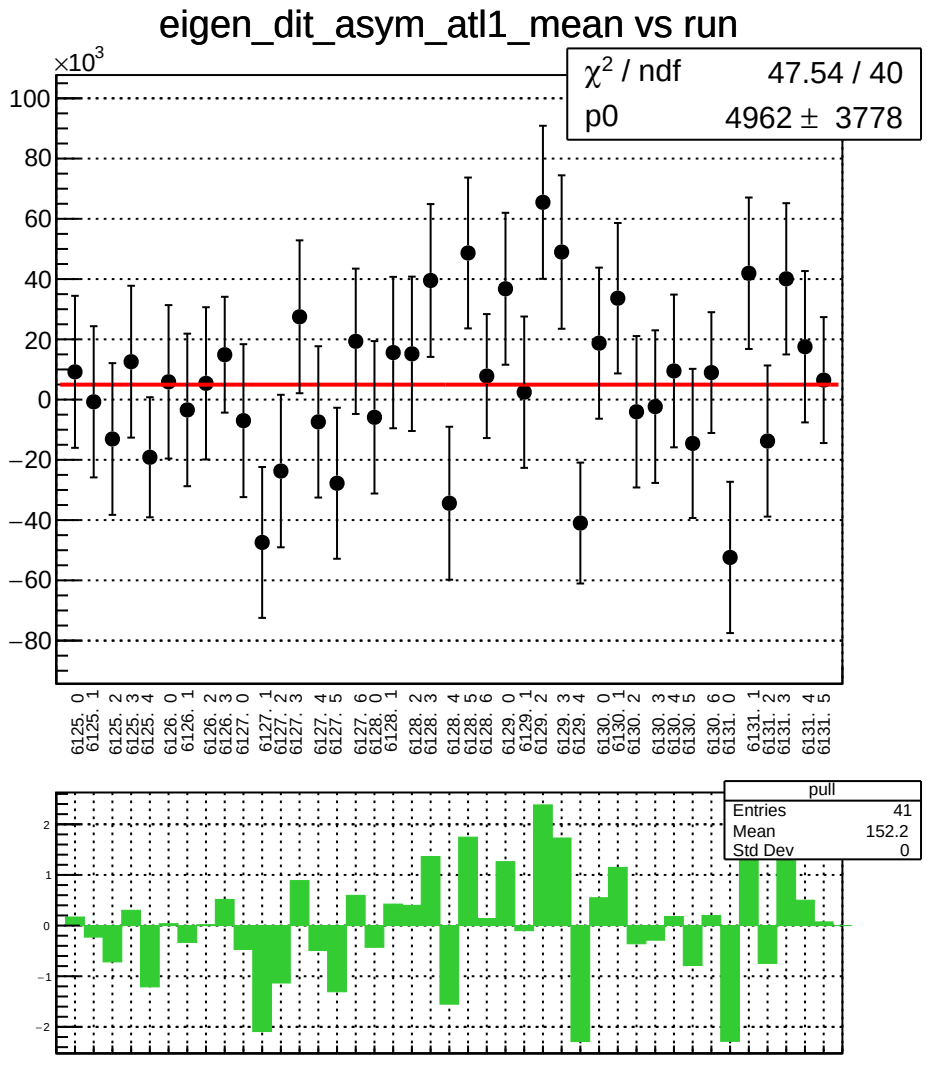

pull1D
Entries 41
Mean 0.01641
Std Dev 1.077
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

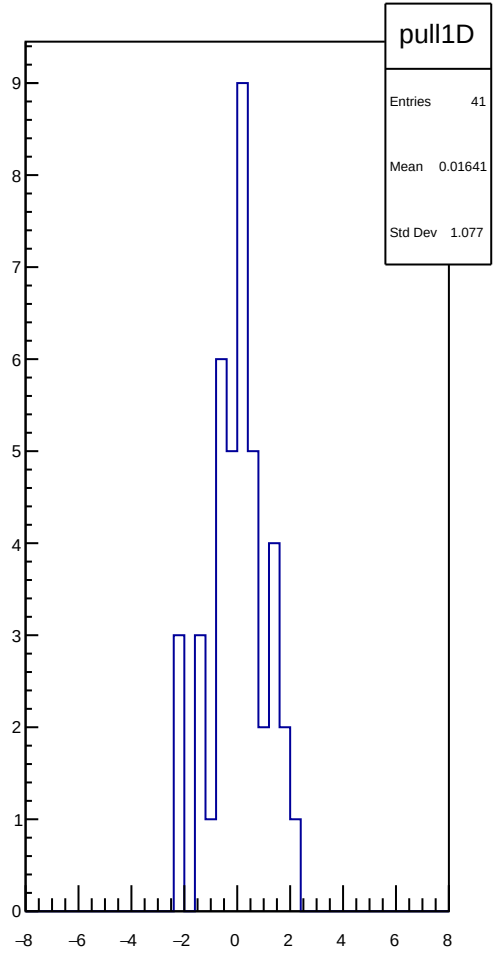

dit_asym_atl1_rms vs run
χ² / ndf 42.89 / 40
p0 2396 ± 2.672
2460
2440
2420
2400
2380
2360
2340
2320
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

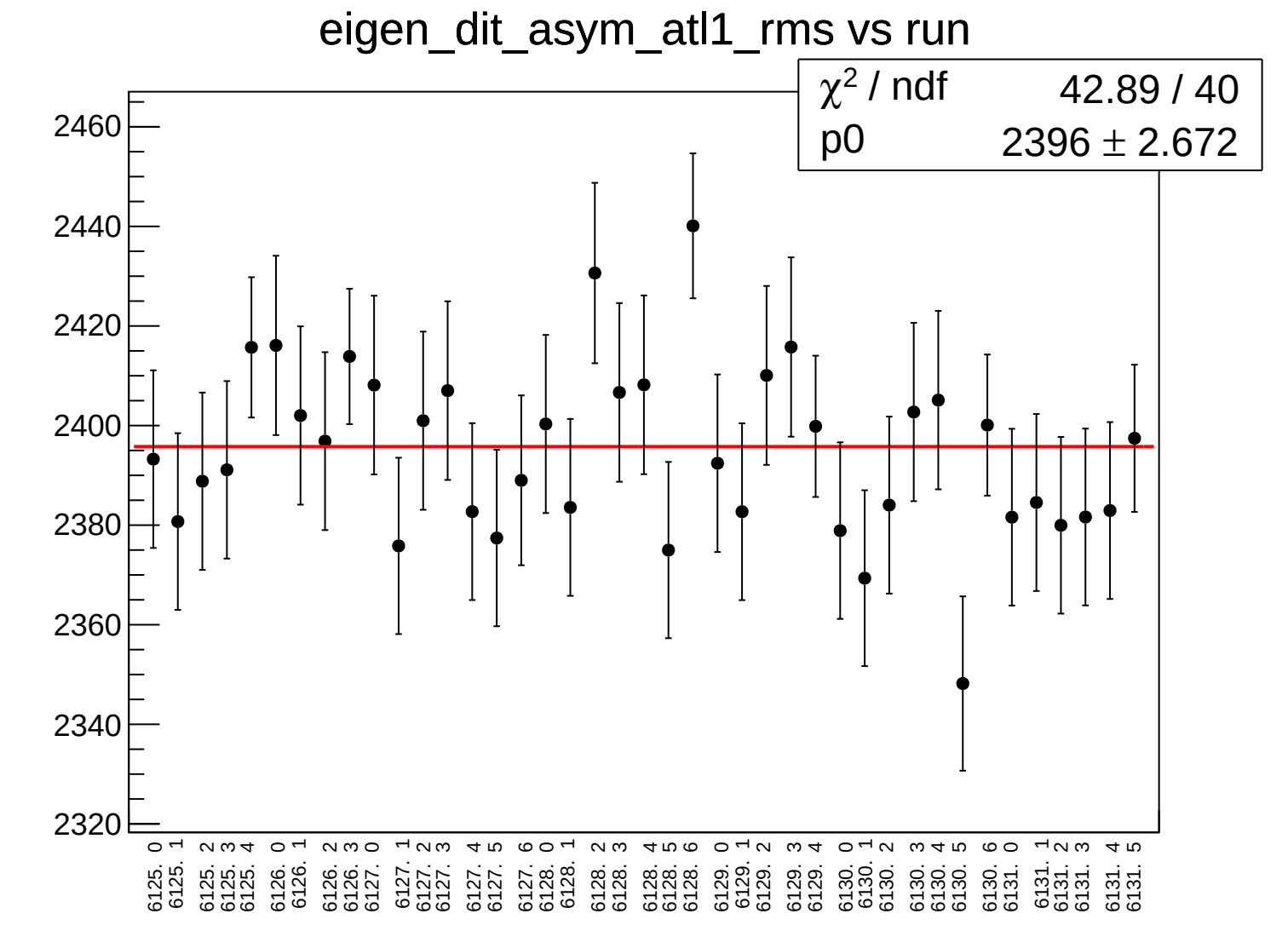

asym_atl1_dit_correction_mean vs run
χ² / ndf 22.48 / 40
p0 802.5 ± 1370
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 194.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

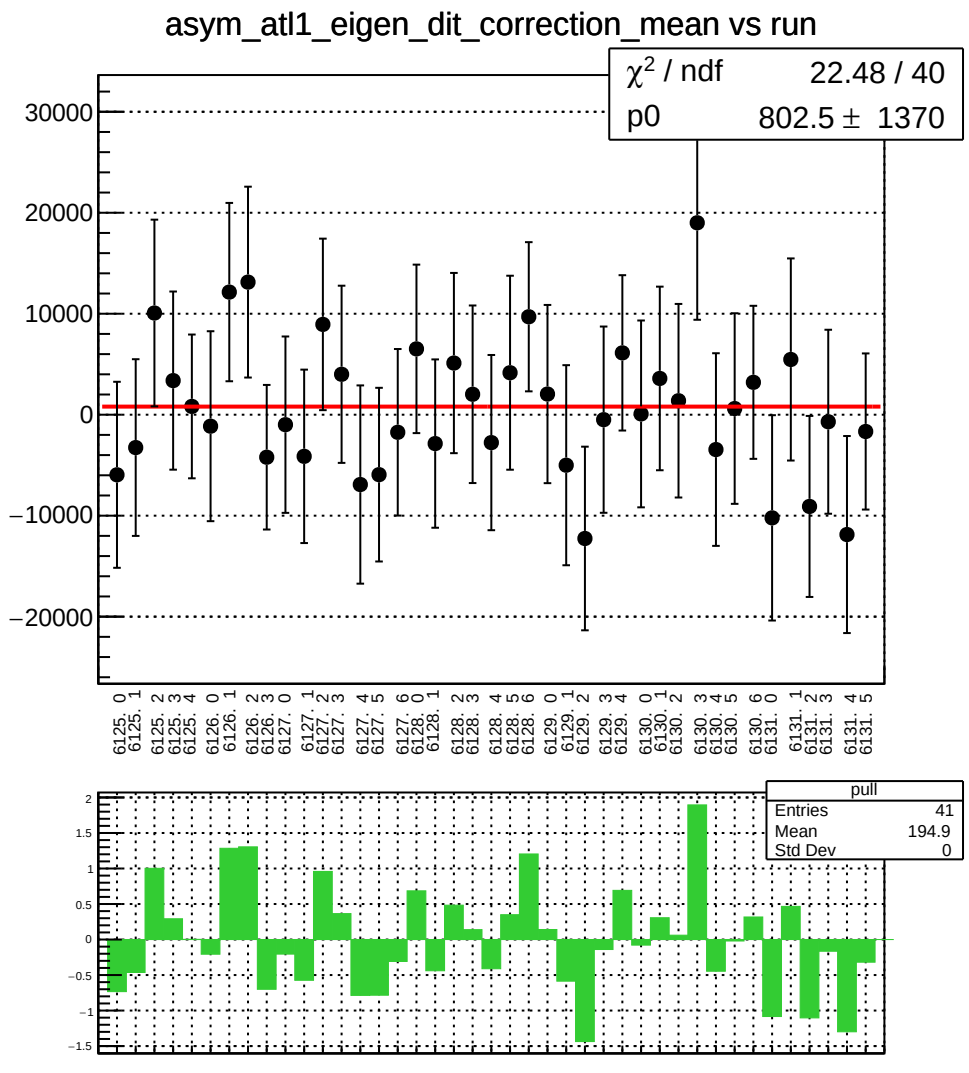

pull1D
Entries 41
Mean −0.008227
Std Dev 0.7404
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

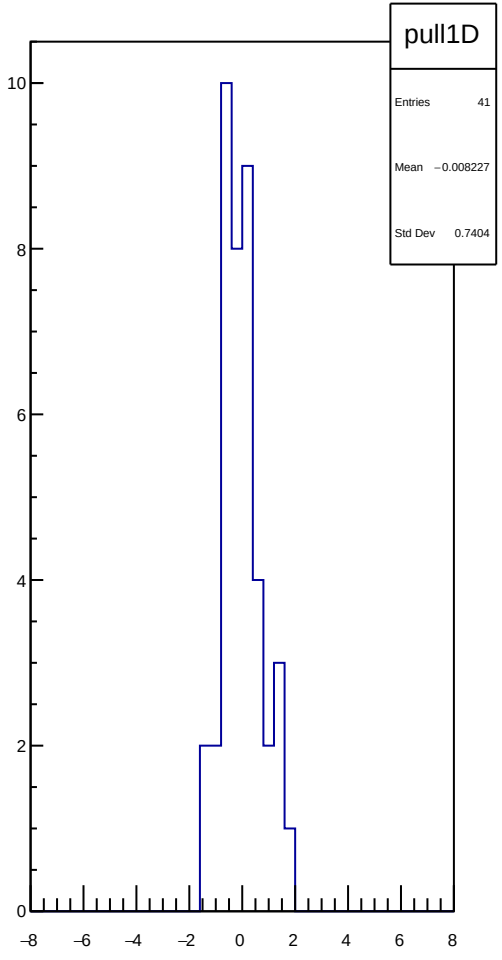

asym_atl1_dit_correction_rms vs run
χ² / ndf 1934 / 40
p0 867.5 ± 0.9685
980
960
940
920
900
880
860
840
820
800
780
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

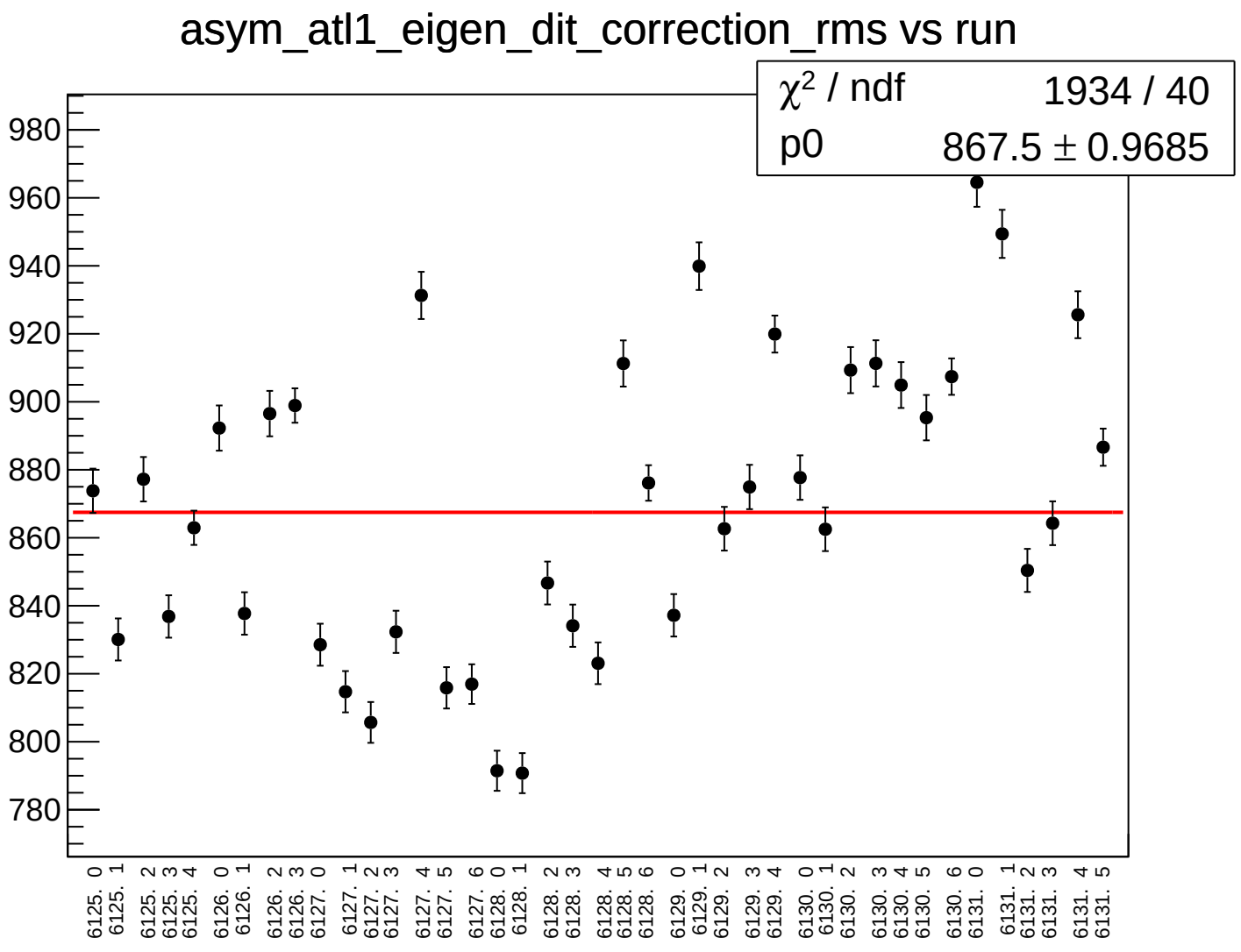

eigen_dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 47.54 / 40
p0 4962 ± 3778
100
80
60
40
20
0
−20
−40
−60
−80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 152.2
Std Dev 0
2
1
0
−1
−2

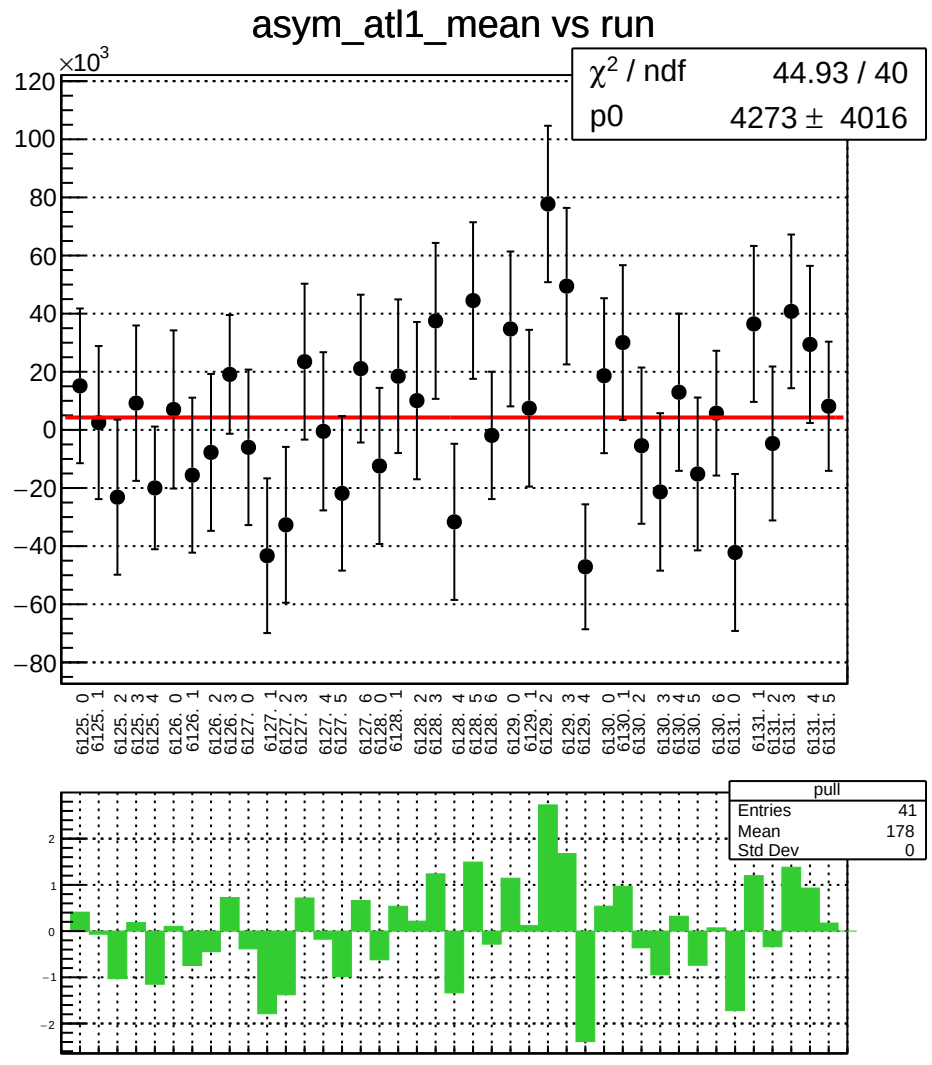

pull1D
Entries 41
Mean 0.01641
Std Dev 1.077
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

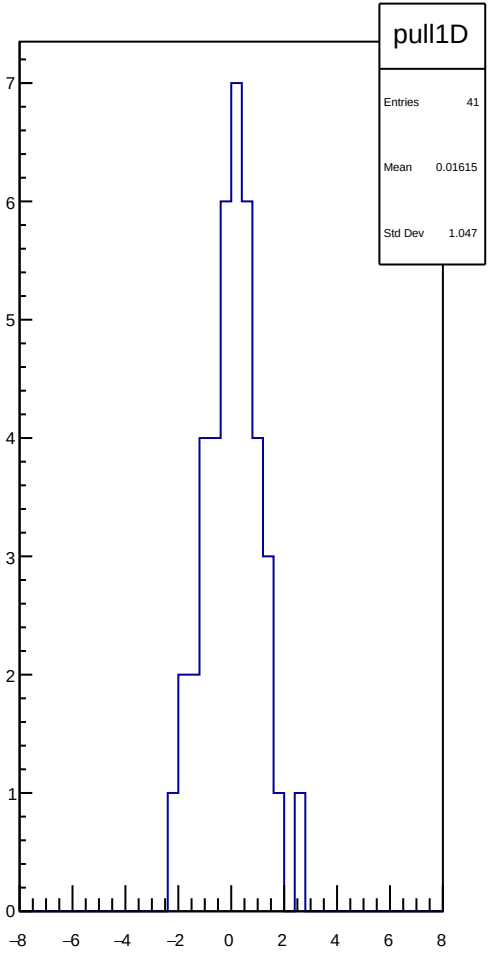

eigen_dit_asym_atl1_rms vs run
χ² / ndf 42.89 / 40
p0 2396 ± 2.672
2460
2440
2420
2400
2380
2360
2340
2320
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

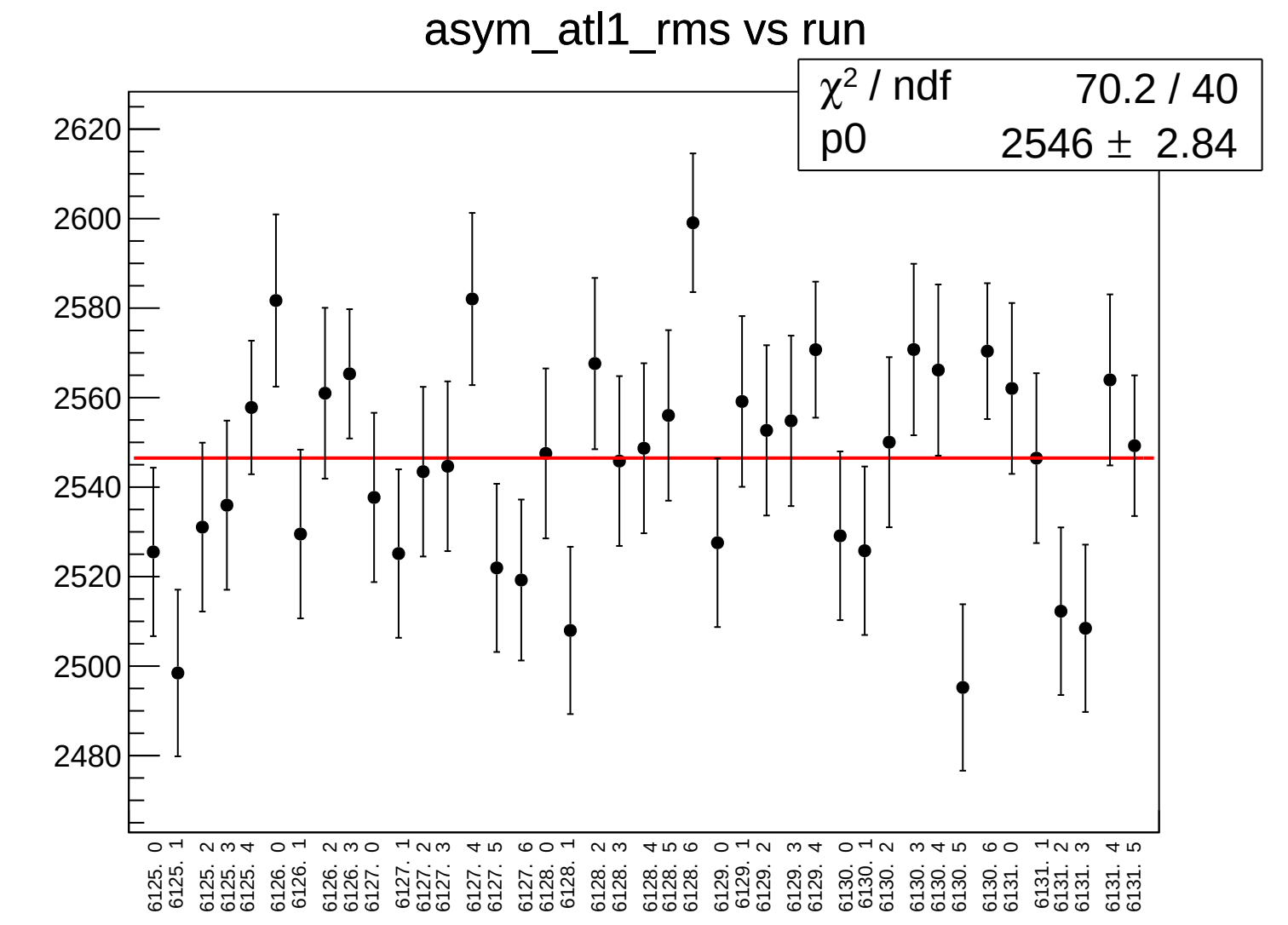

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 22.48 / 40
p0 802.5 ± 1370
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 194.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

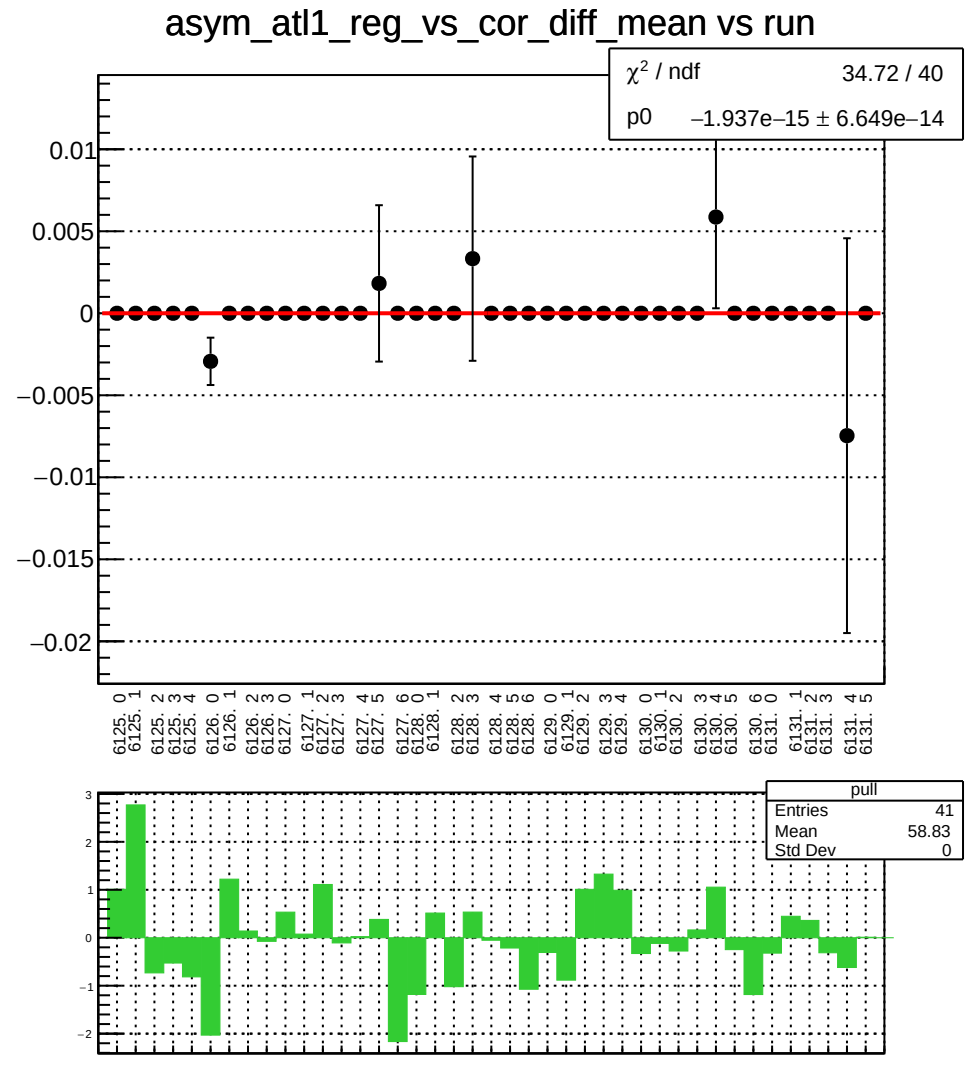

pull1D
Entries 41
Mean −0.008227
Std Dev 0.7404
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

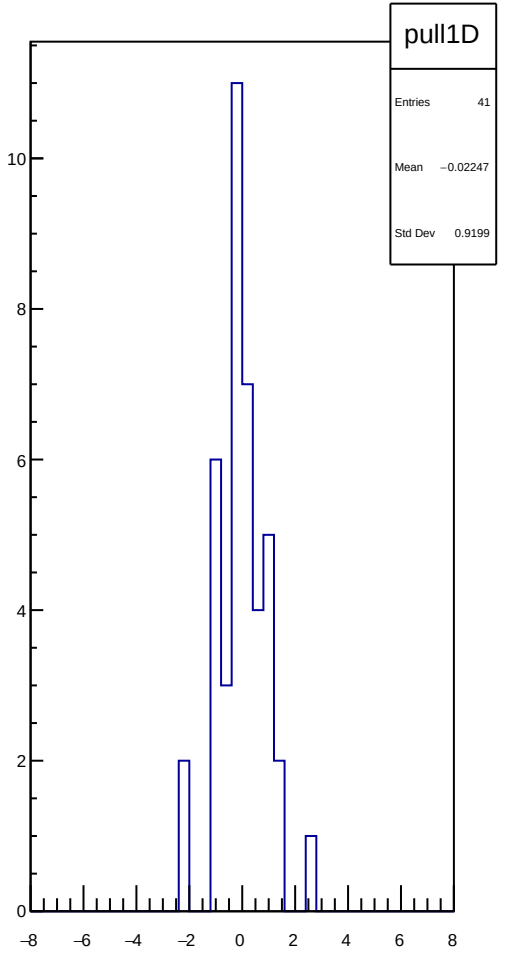

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 1934 / 40
p0 867.5 ± 0.9685
980
960
940
920
900
880
860
840
820
800
780
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

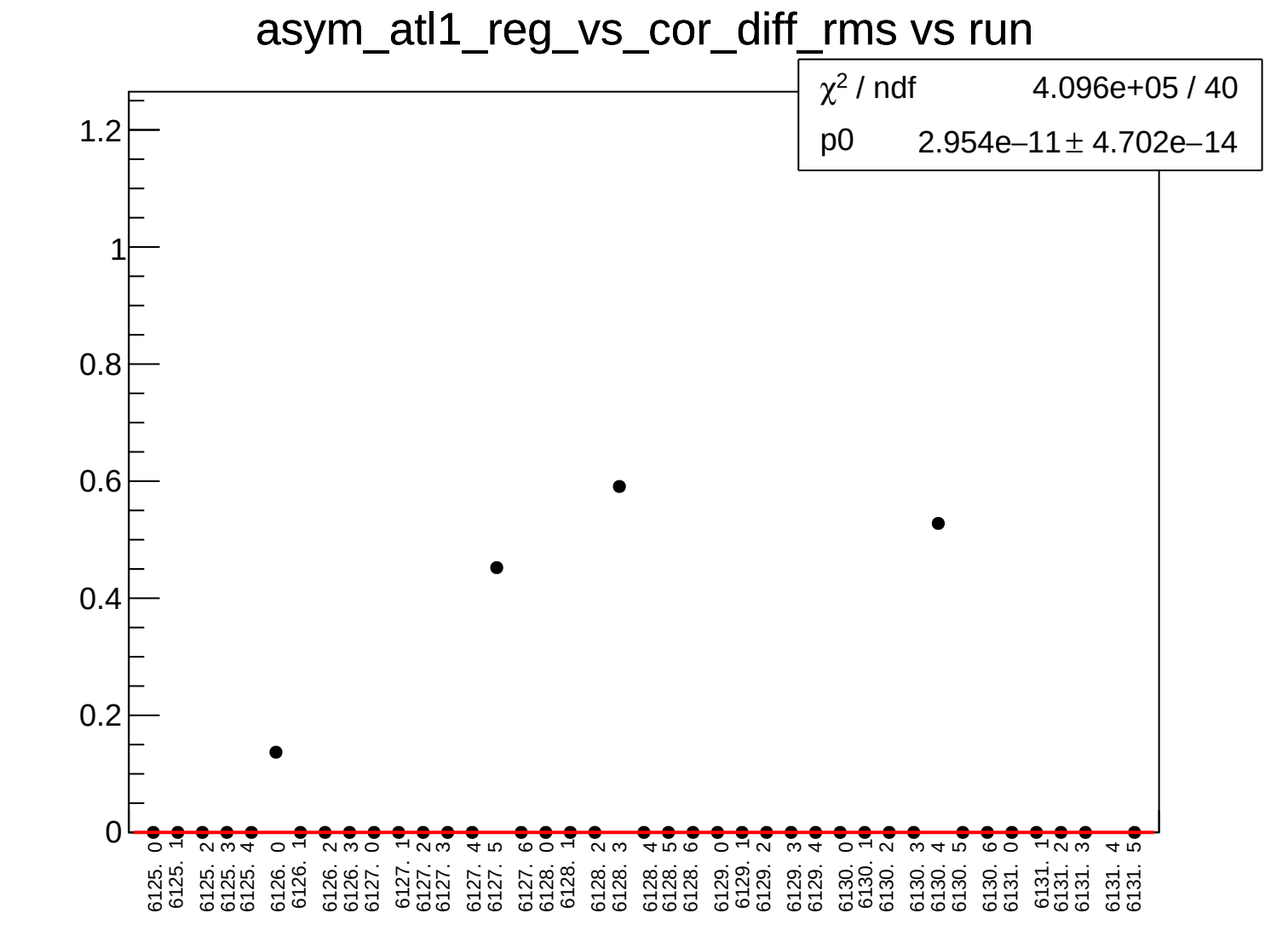

asym_atl1_mean vs run
×10^3
χ^2 / ndf 44.93 / 40
p0 4273 ± 4016
pull
Entries 41
Mean 178
Std Dev 0

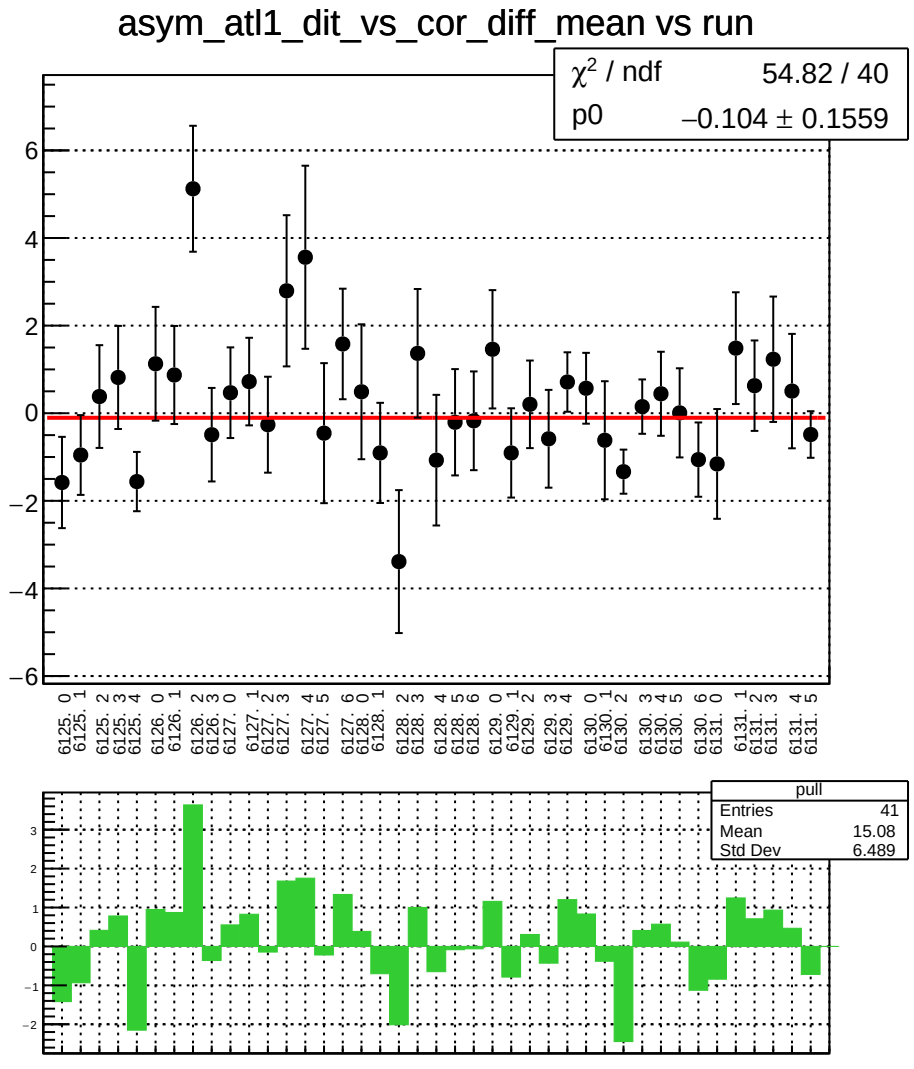

pull1D
Entries 41
Mean 0.01615
Std Dev 1.047

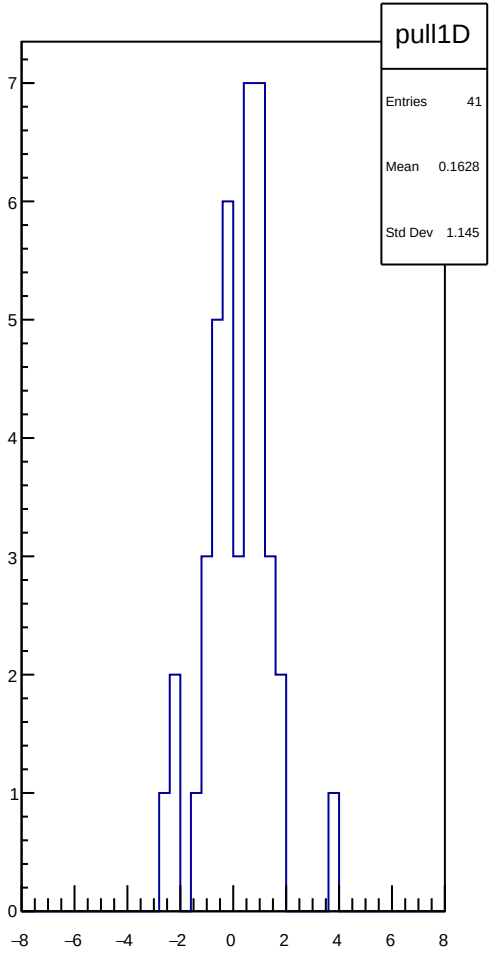

asym_atl1_rms vs run
χ² / ndf 70.2 / 40
p0 2546 ± 2.84
2620
2600
2580
2560
2540
2520
2500
2480
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

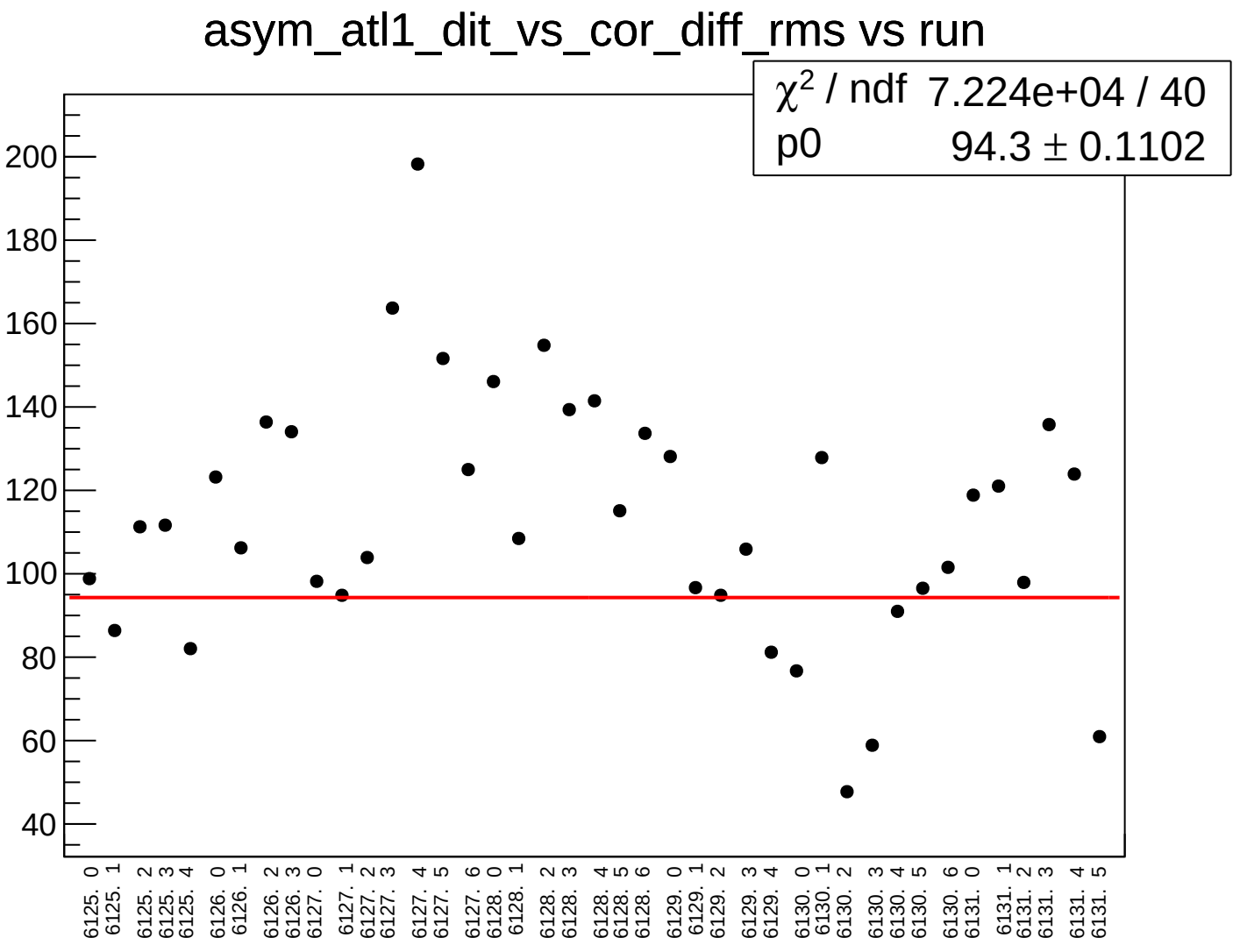

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 34.72 / 40
p0 −1.937e−15 ± 6.649e−14
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 58.83
Std Dev 0
3
2
1
0
−1
−2

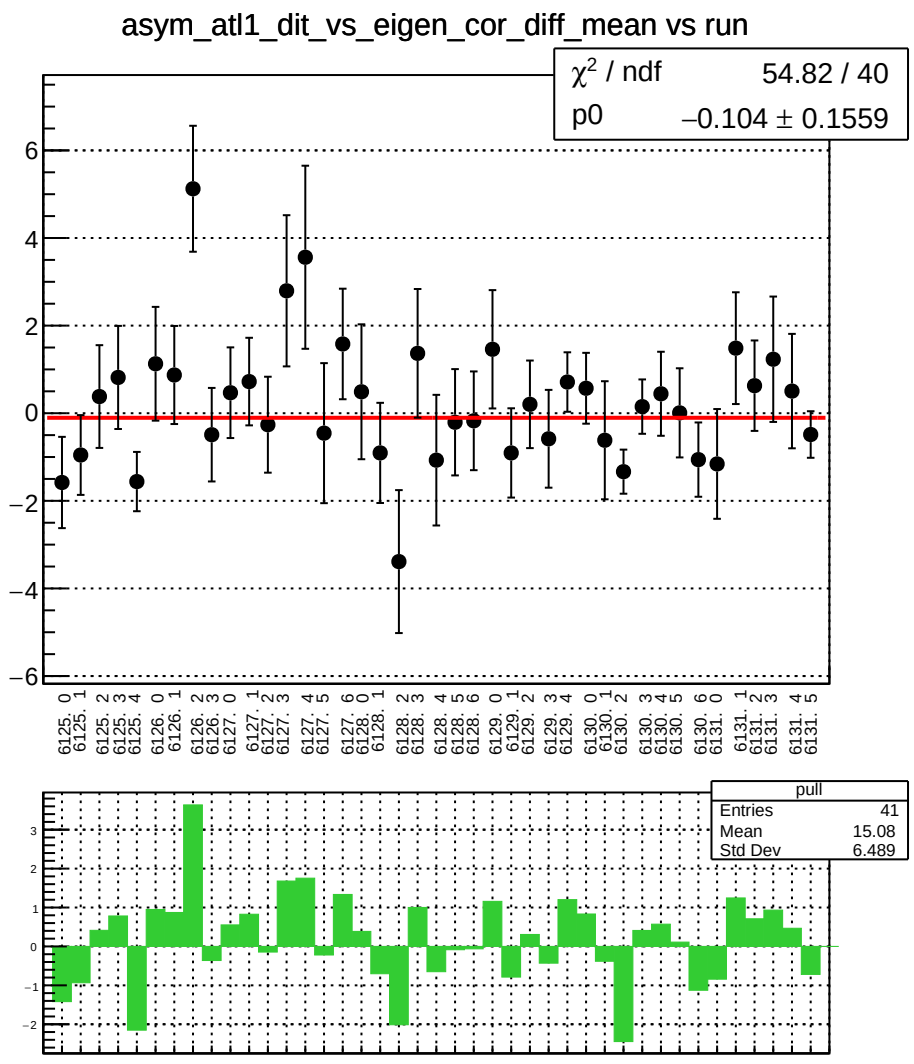

pull1D
Entries 41
Mean −0.02247
Std Dev 0.9199
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

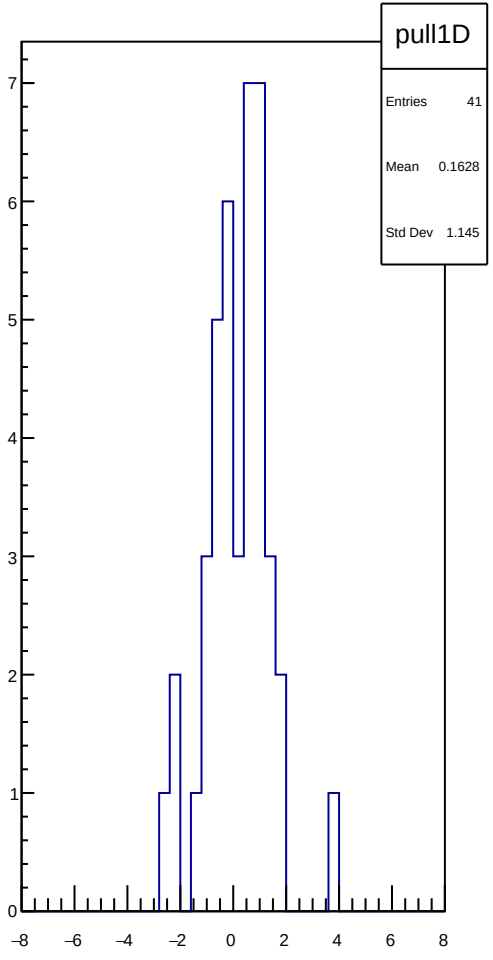

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 4.096e+05 / 40
p0 2.954e−11 ± 4.702e−14
1.2
1
0.8
0.6
0.4
0.2
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

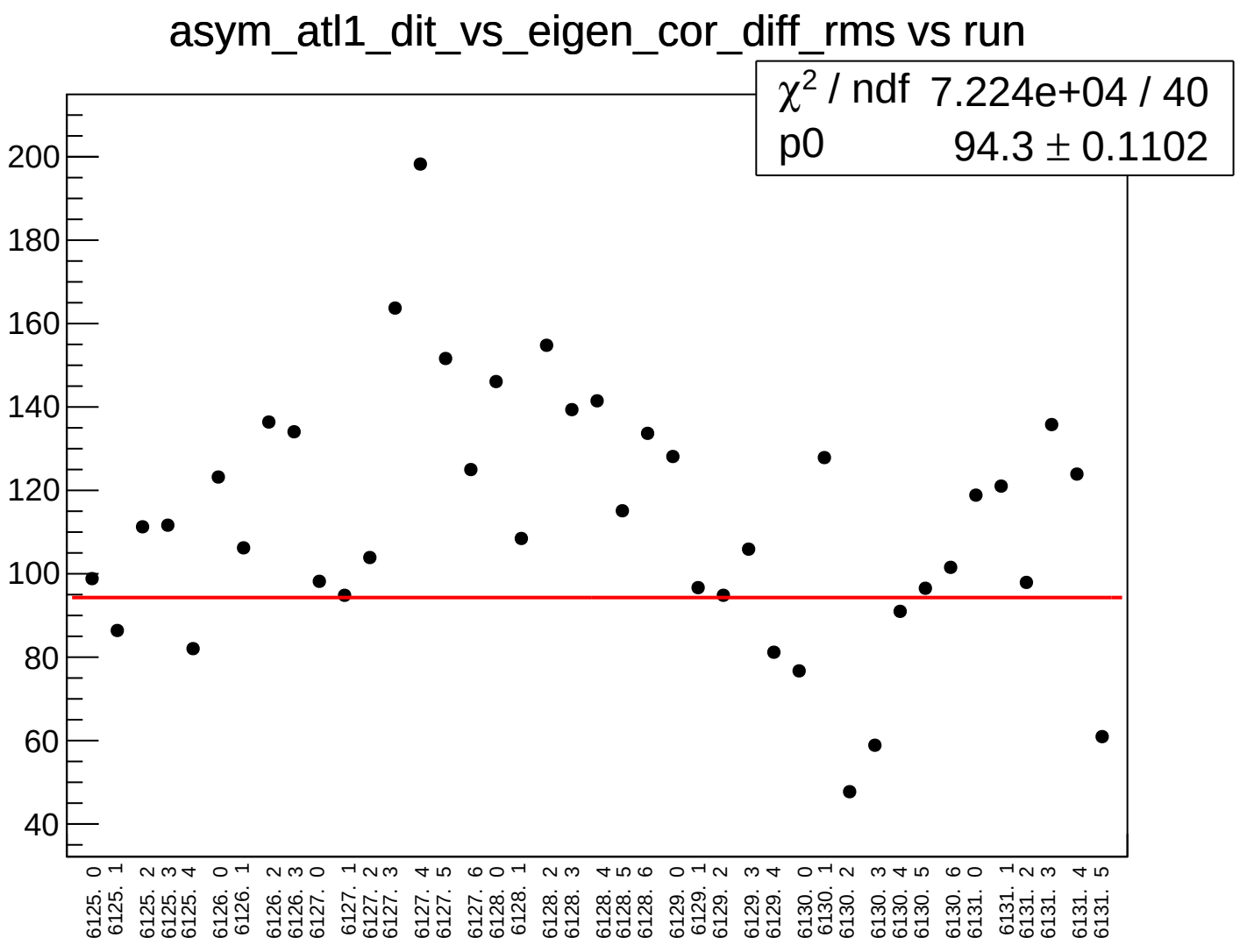

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 54.82 / 40
p0 −0.104 ± 0.1559
pull
Entries 41
Mean 15.08
Std Dev 6.489

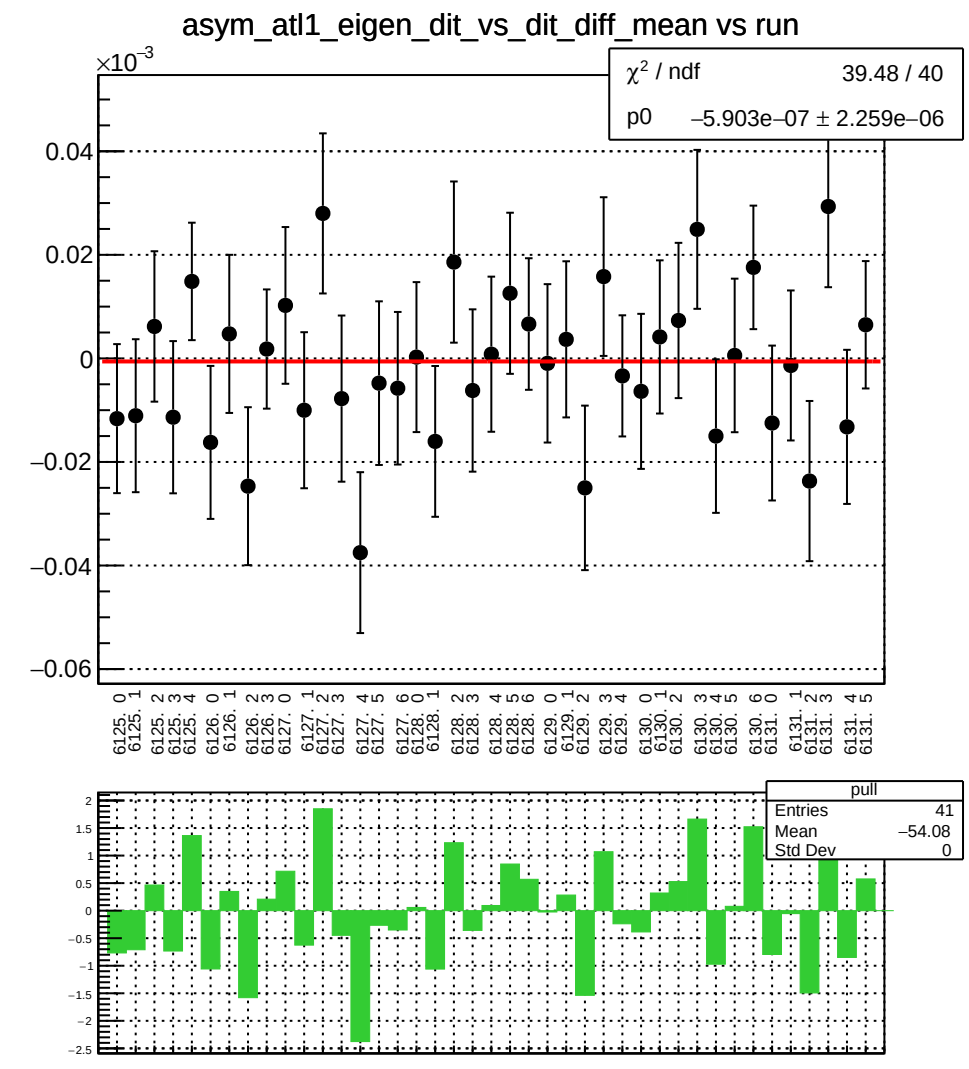

pull1D
Entries 41
Mean 0.1628
Std Dev 1.145

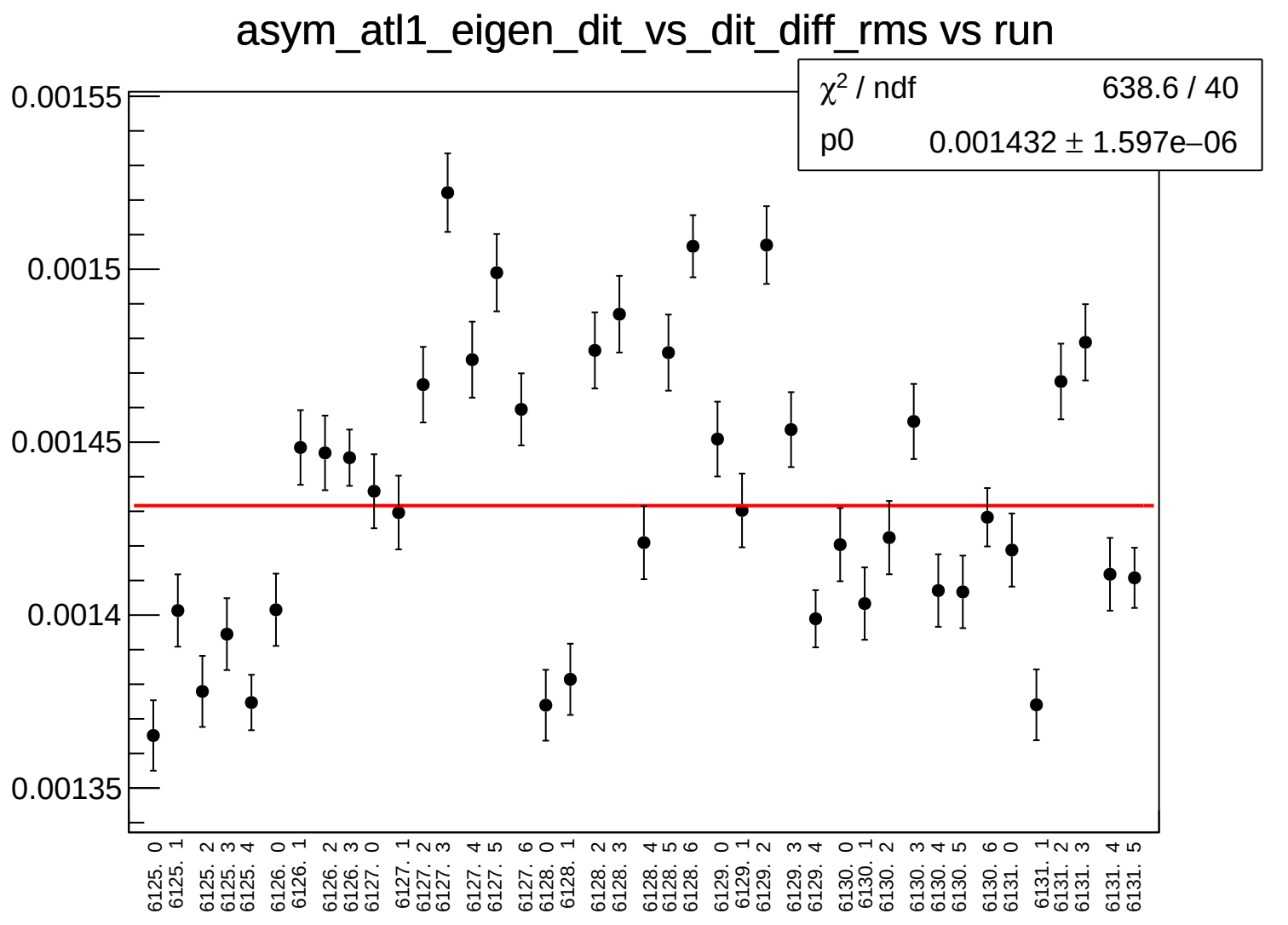

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 7.224e+04 / 40
p0 94.3 ± 0.1102
200
180
160
140
120
100
80
60
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

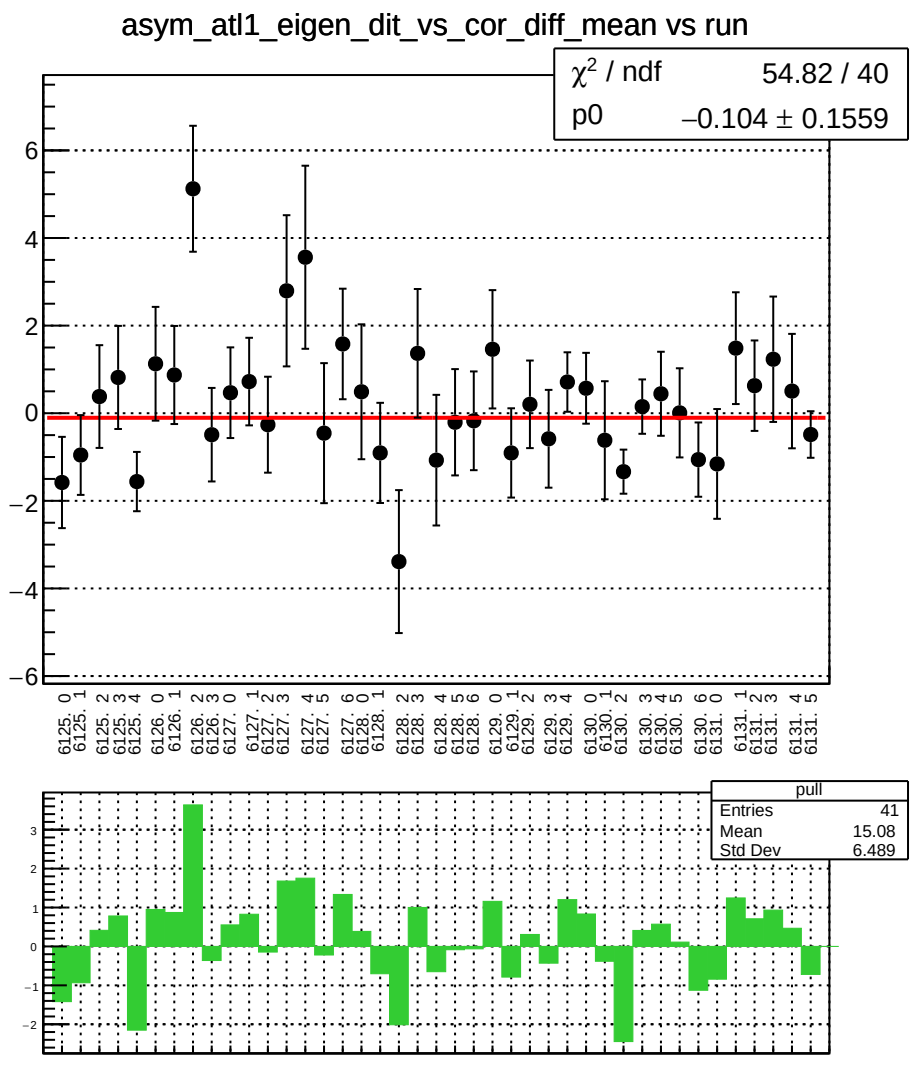

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.82 / 40
p0 −0.104 ± 0.1559
pull
Entries 41
Mean 15.08
Std Dev 6.489

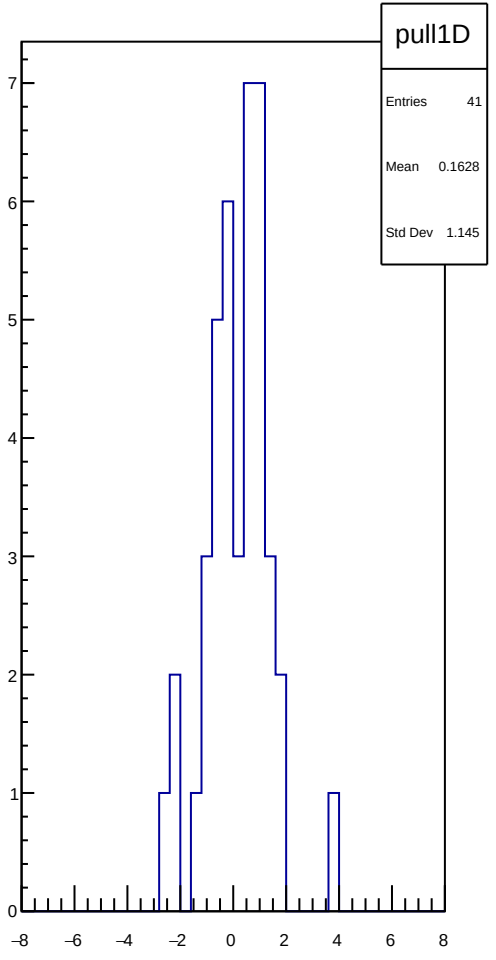

pull1D
Entries 41
Mean 0.1628
Std Dev 1.145

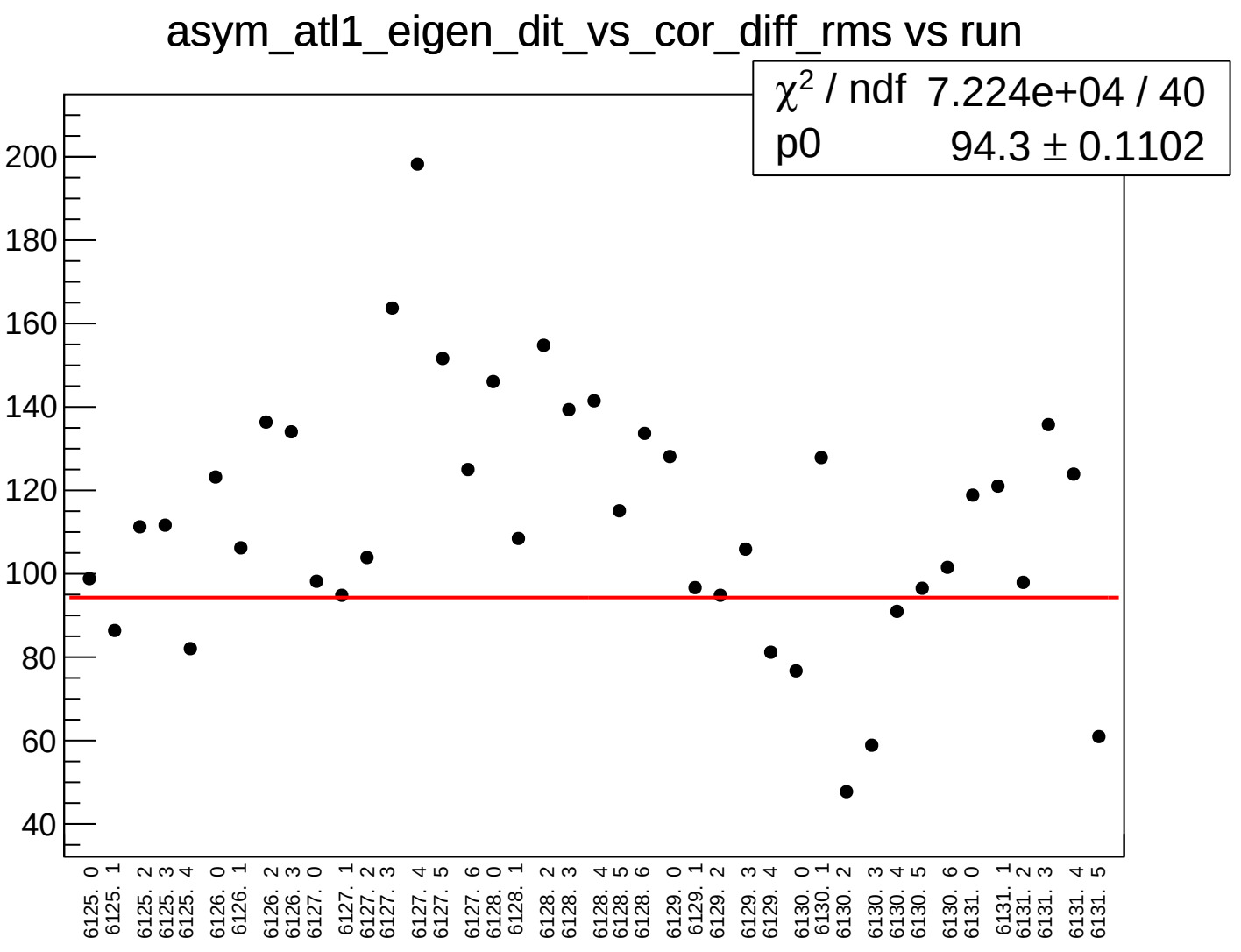

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.224e+04 / 40
p0 94.3 ± 0.1102
200
180
160
140
120
100
80
60
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

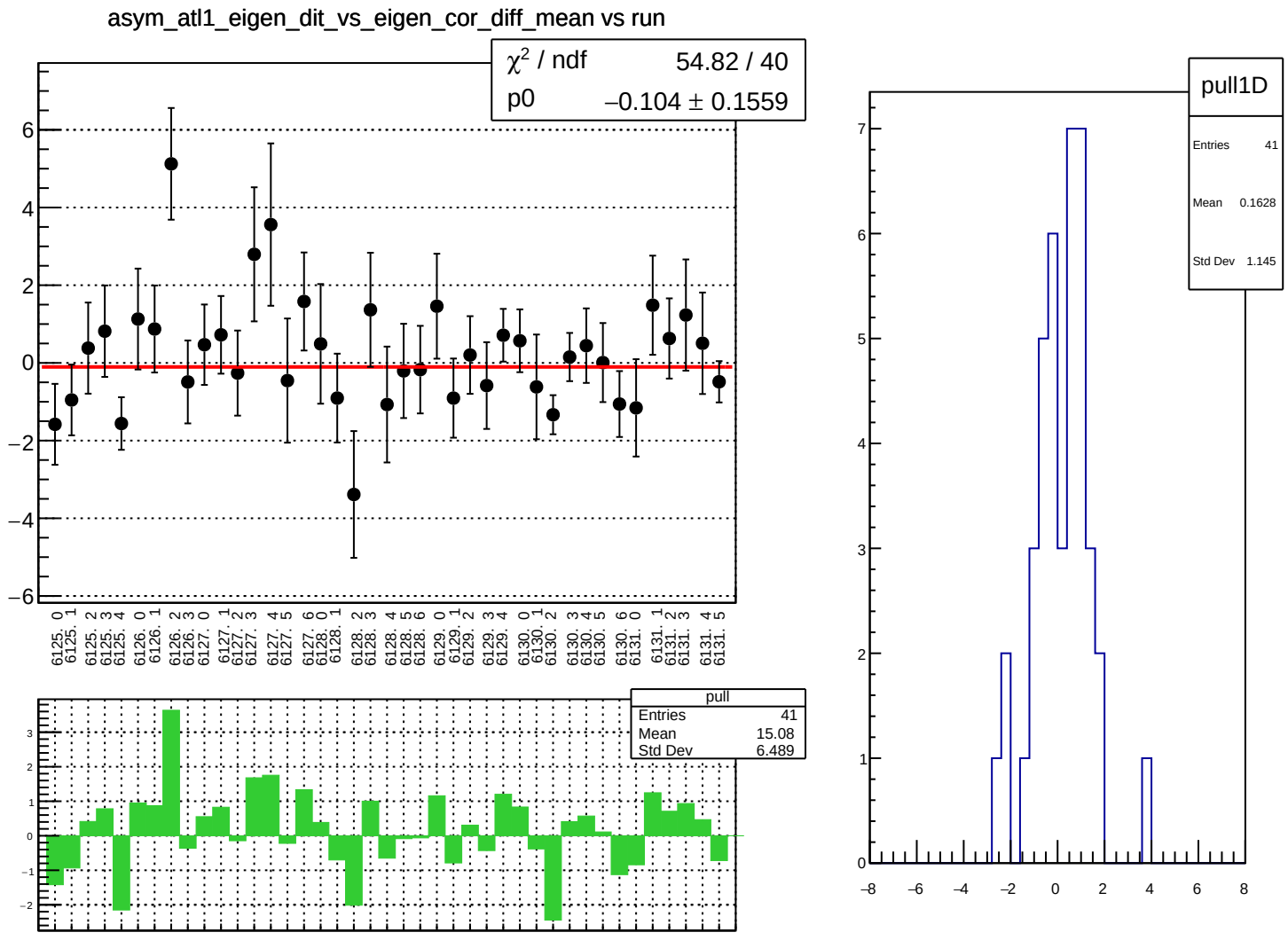

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 39.48 / 40
p0 −5.903e−07 ± 2.259e−06
0.04
0.02
0
−0.02
−0.04
−0.06
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −54.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean −0.02361
Std Dev 0.981
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

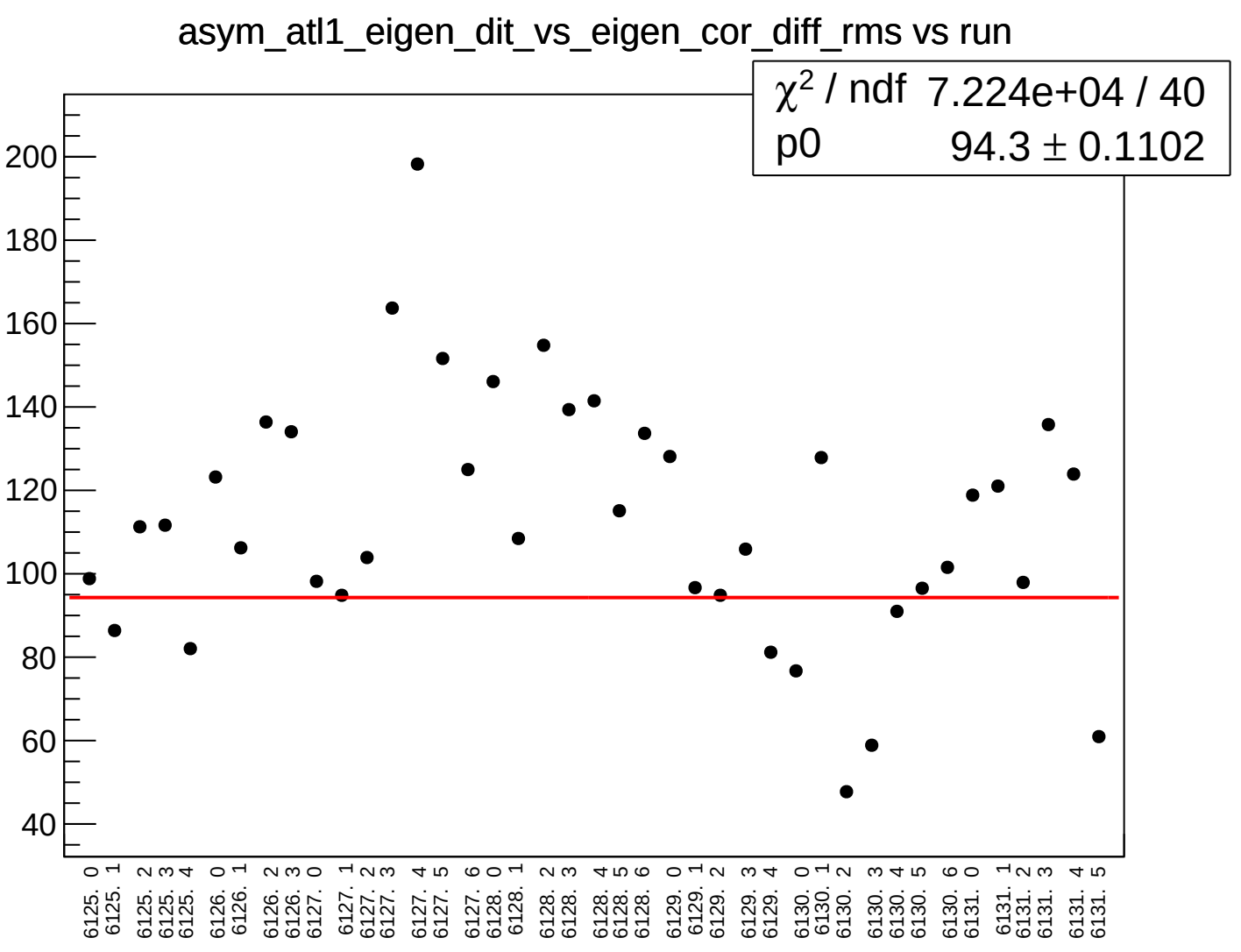

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 638.6 / 40
p0 0.001432 ± 1.597e−06
0.00155
0.0015
0.00145
0.0014
0.00135
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

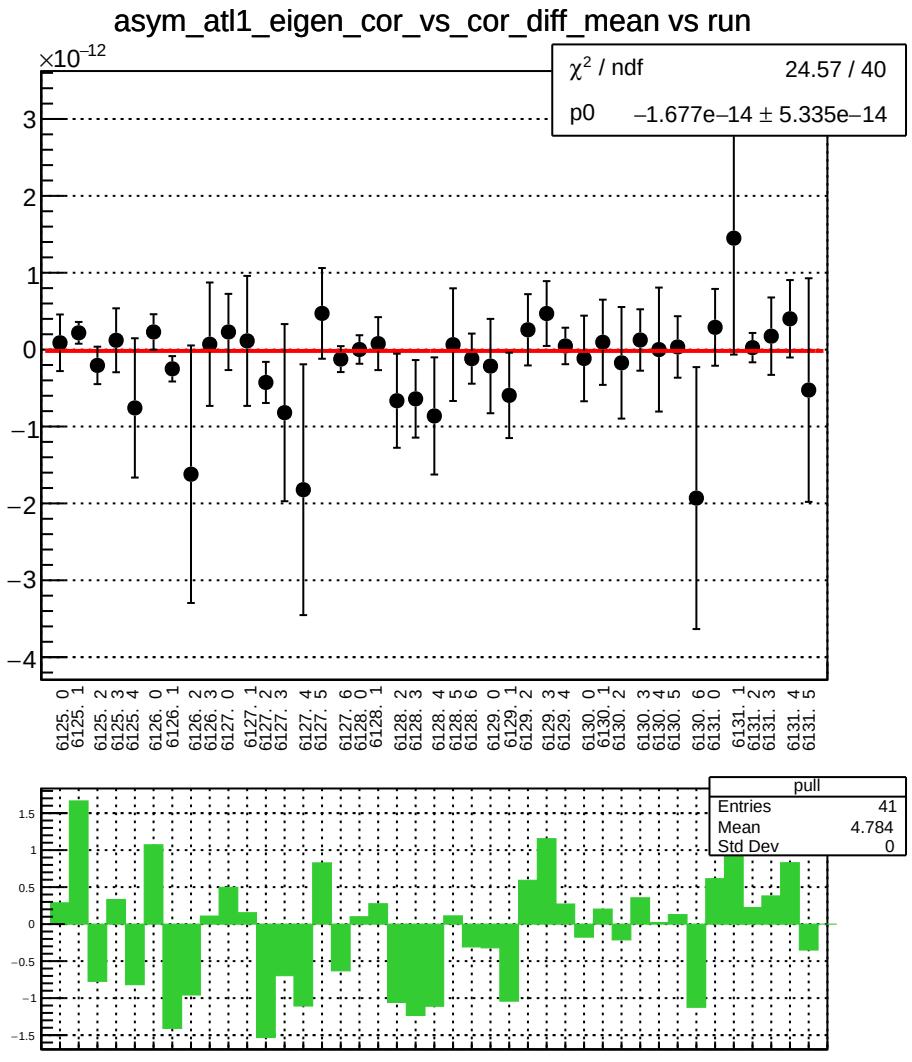

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 54.82 / 40
p0 −0.104 ± 0.1559
pull
Entries 41
Mean 15.08
Std Dev 6.489

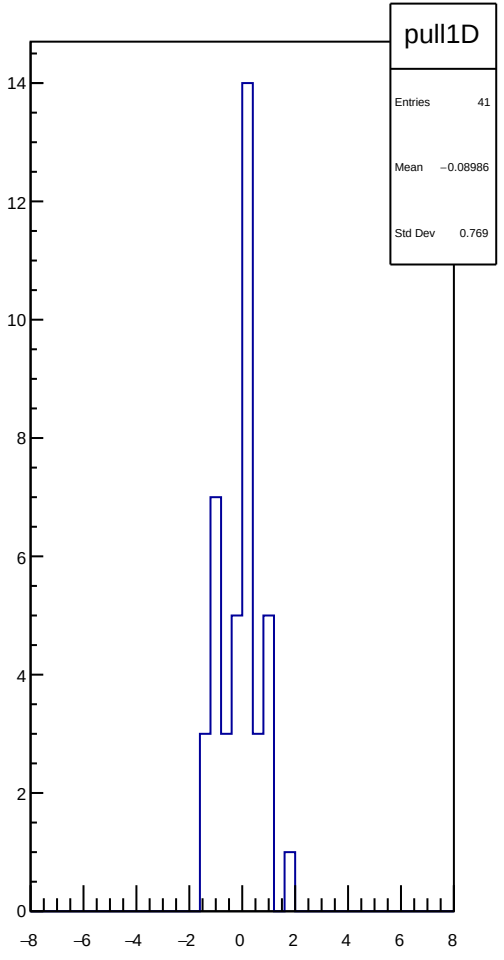

pull1D
Entries 41
Mean 0.1628
Std Dev 1.145

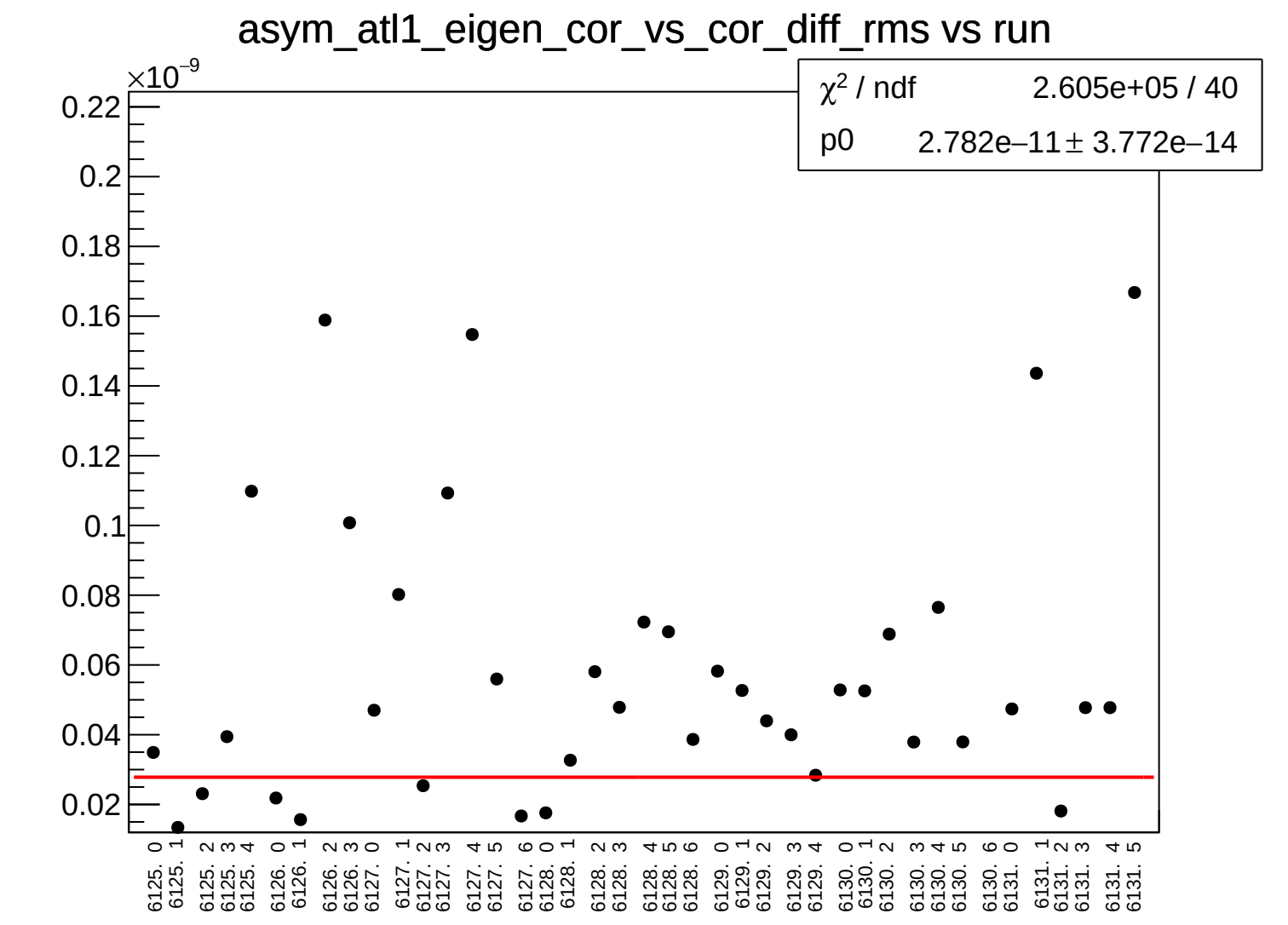

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.224e+04 / 40
p0 94.3 ± 0.1102
200
180
160
140
120
100
80
60
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

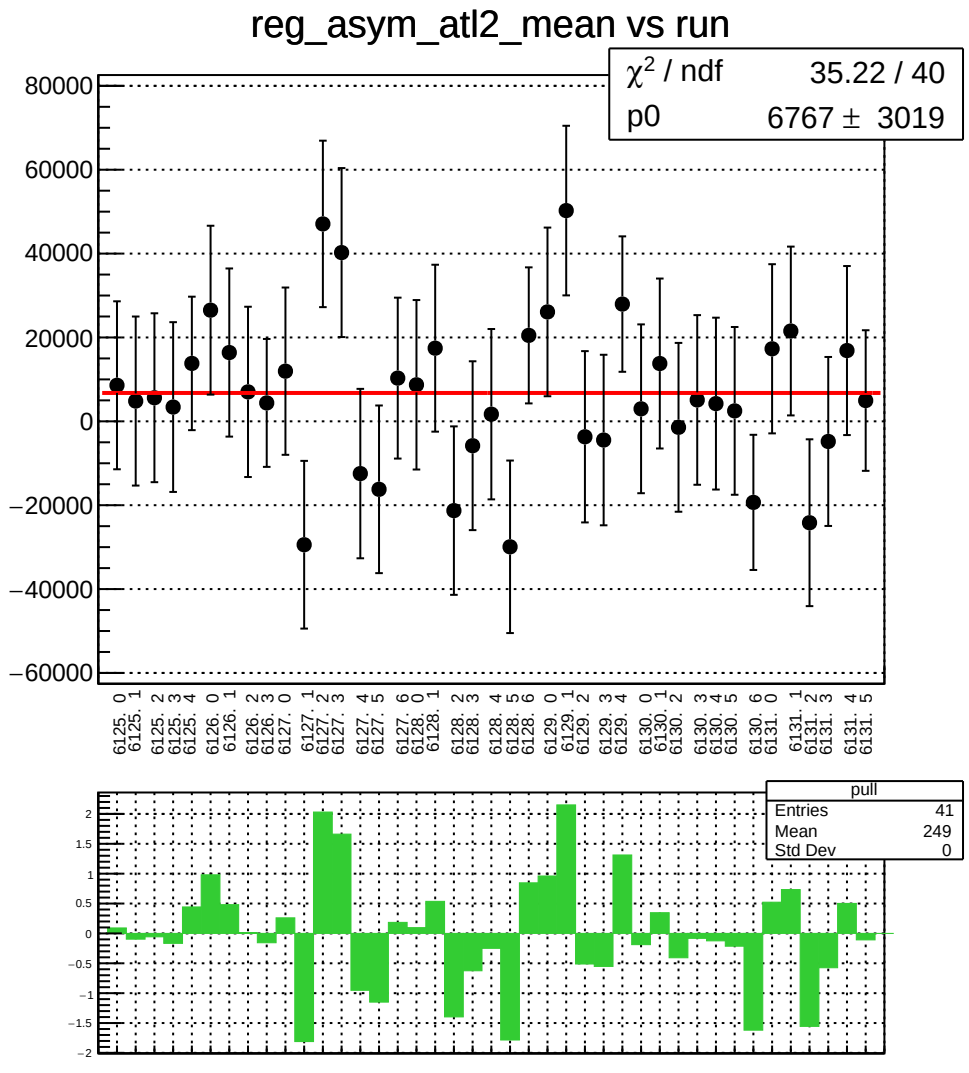

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.82 / 40
p0 −0.104 ± 0.1559
pull
Entries 41
Mean 15.08
Std Dev 6.489
pull1D
Entries 41
Mean 0.1628
Std Dev 1.145

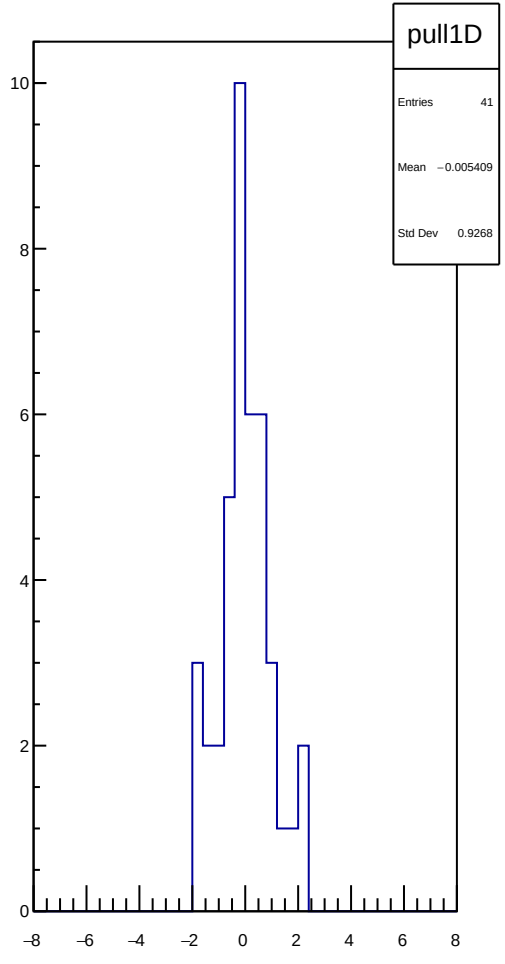

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.224e+04 / 40
p0 94.3 ± 0.1102
200
180
160
140
120
100
80
60
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

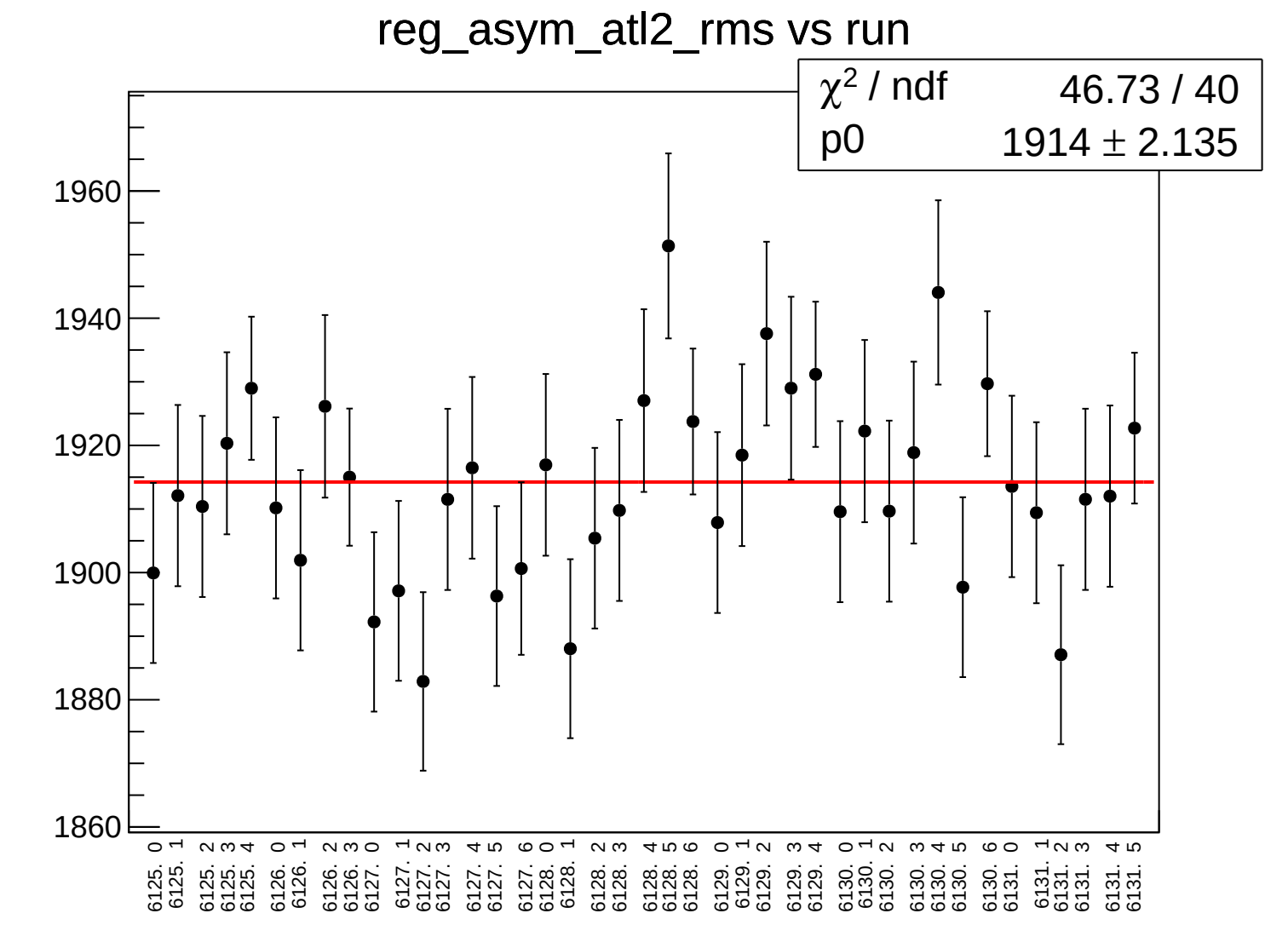

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 24.57 / 40
p0 −1.677e−14 ± 5.335e−14
pull
Entries 41
Mean 4.784
Std Dev 0

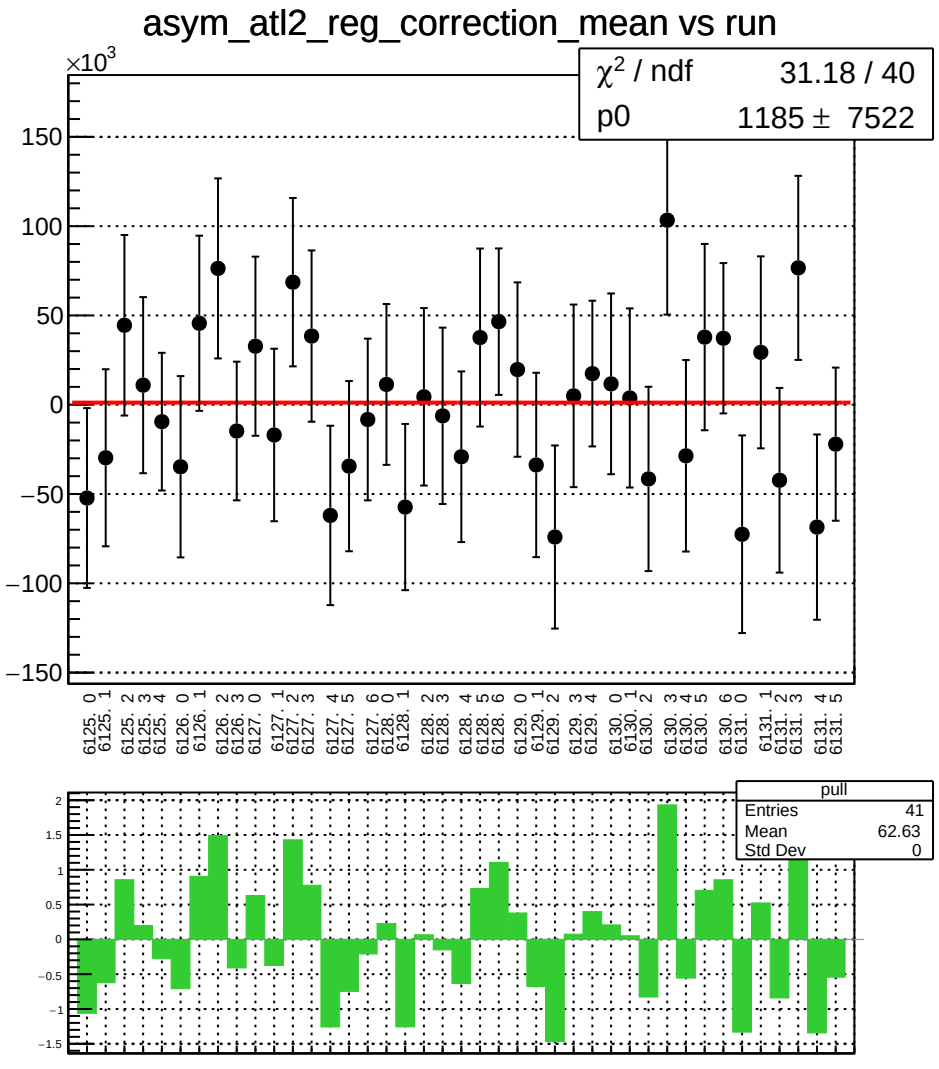

pull1D
Entries 41
Mean −0.08986
Std Dev 0.769

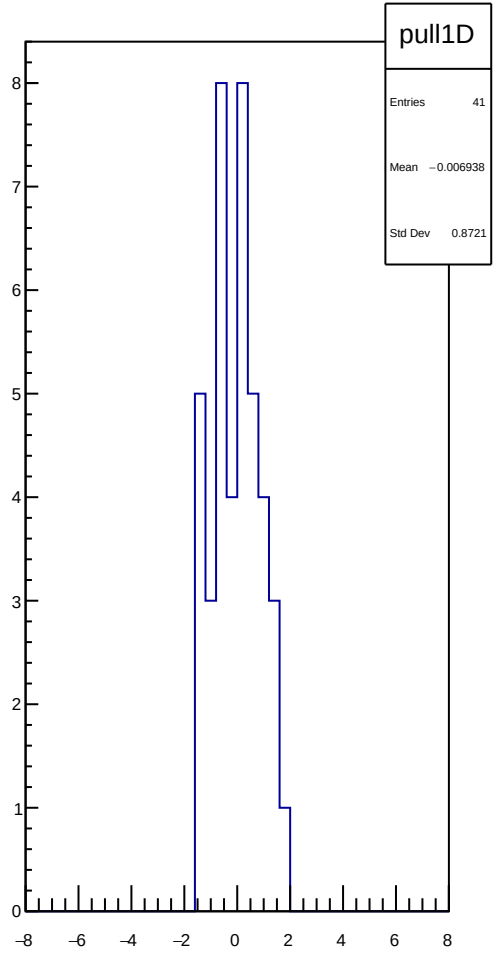

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.605e+05 / 40
p0 2.782e−11 ± 3.772e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

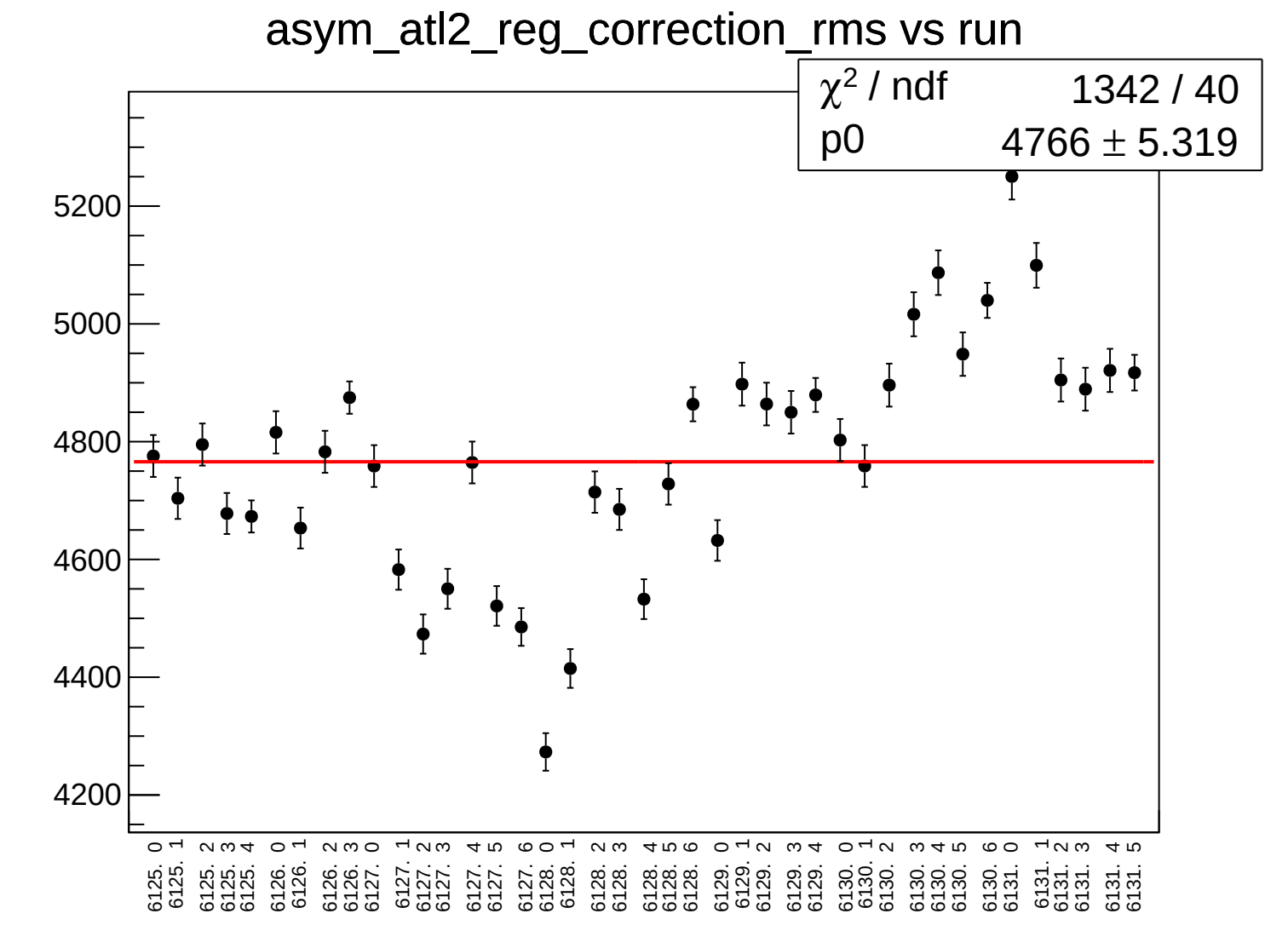

reg_asym_atl2_mean vs run
χ² / ndf 35.22 / 40
p0 6767 ± 3019
pull
Entries 41
Mean 249
Std Dev 0

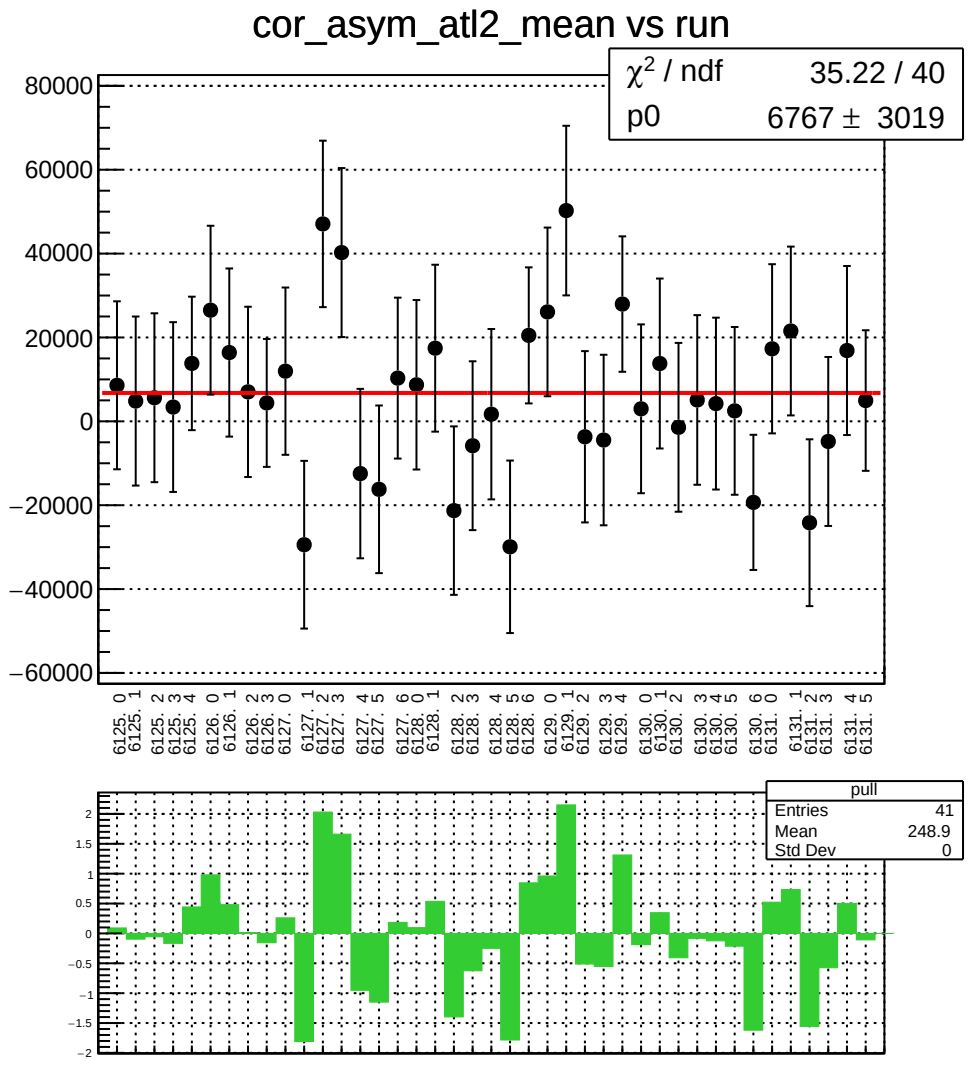

pull1D
Entries 41
Mean −0.005409
Std Dev 0.9268

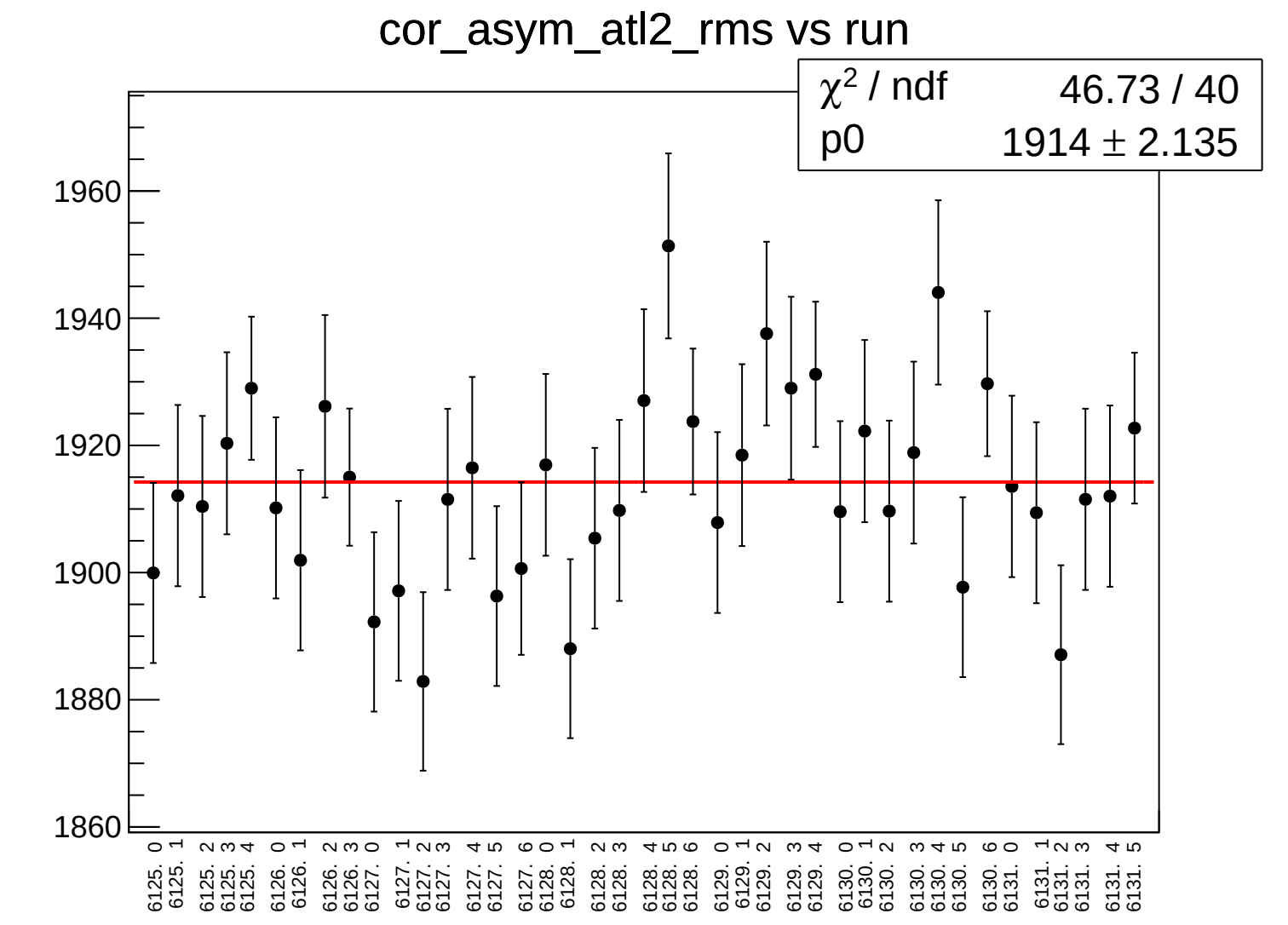

reg_asym_atl2_rms vs run
χ² / ndf 46.73 / 40
p0 1914 ± 2.135
1960
1940
1920
1900
1880
1860
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

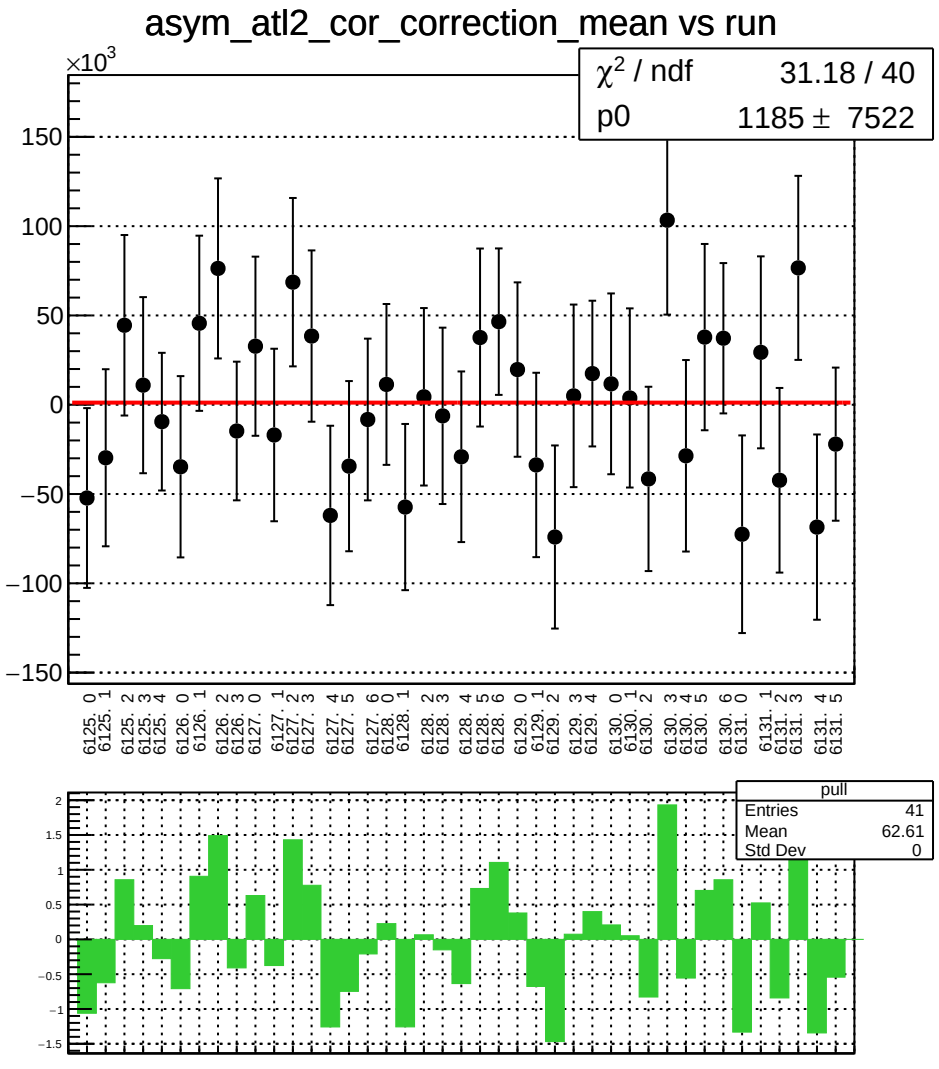

asym_atl2_reg_correction_mean vs run
×10^3
χ^2 / ndf 31.18 / 40
p0 1185 ± 7522
150
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 62.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

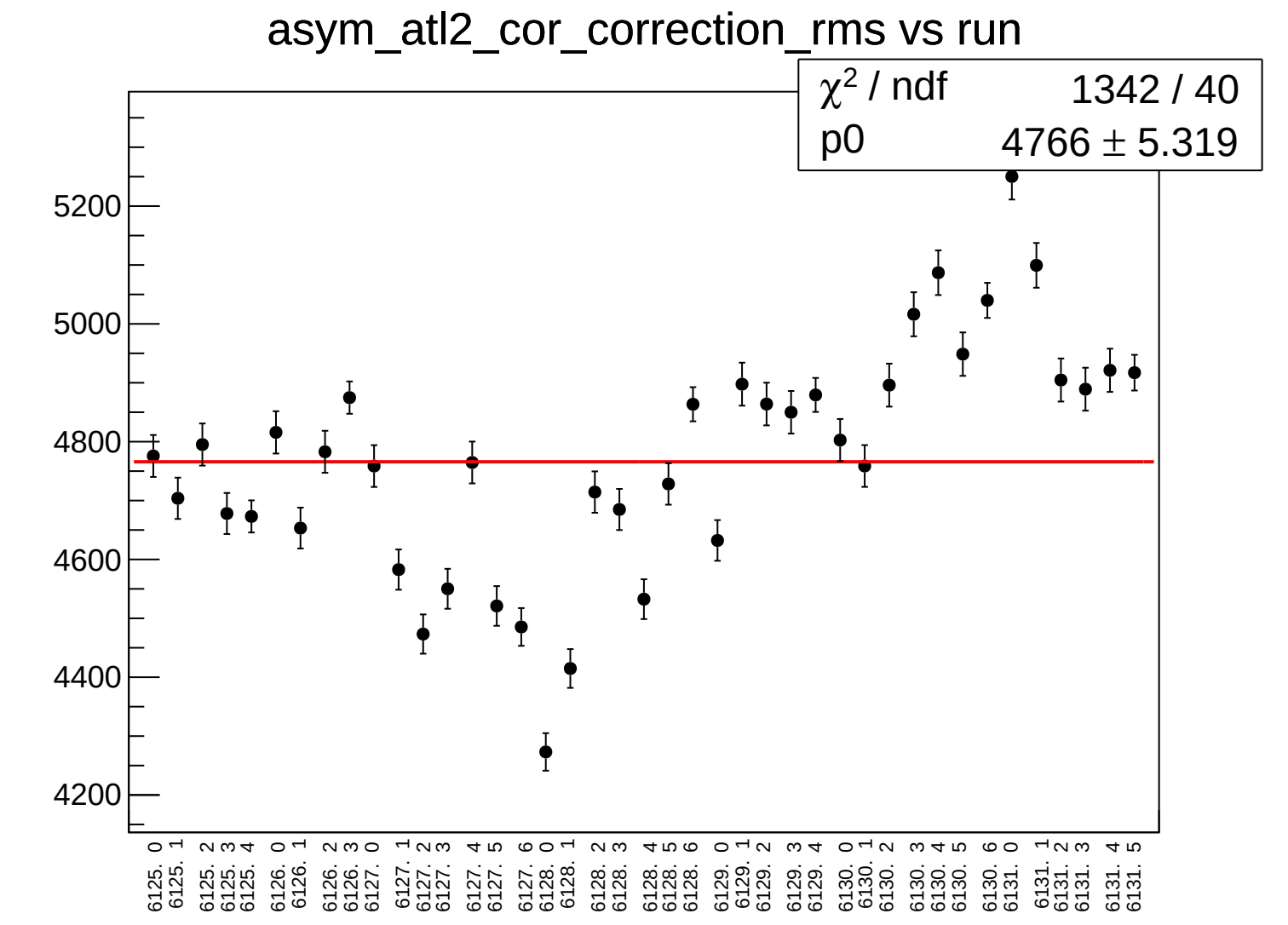

pull1D
Entries 41
Mean −0.006938
Std Dev 0.8721
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

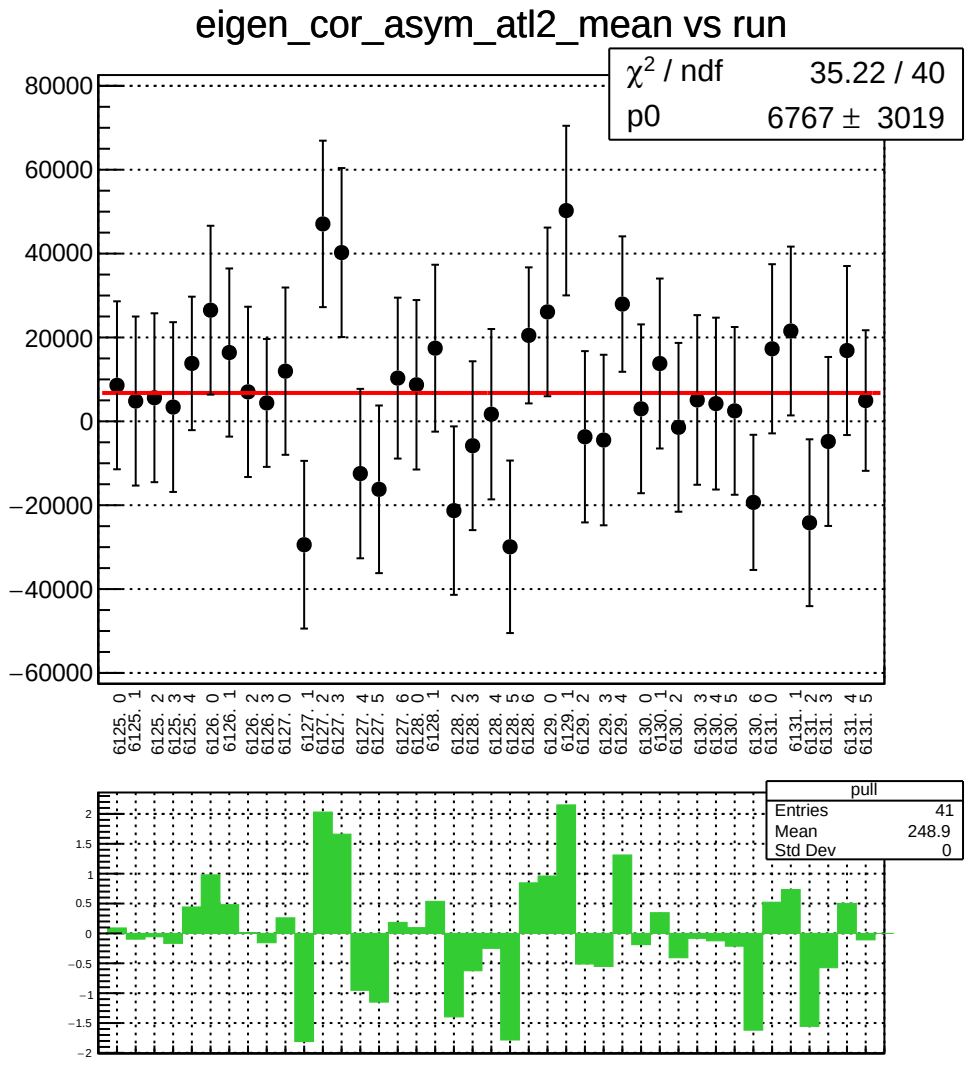

asym_atl2_reg_correction_rms vs run
χ² / ndf 1342 / 40
p0 4766 ± 5.319
5200
5000
4800
4600
4400
4200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

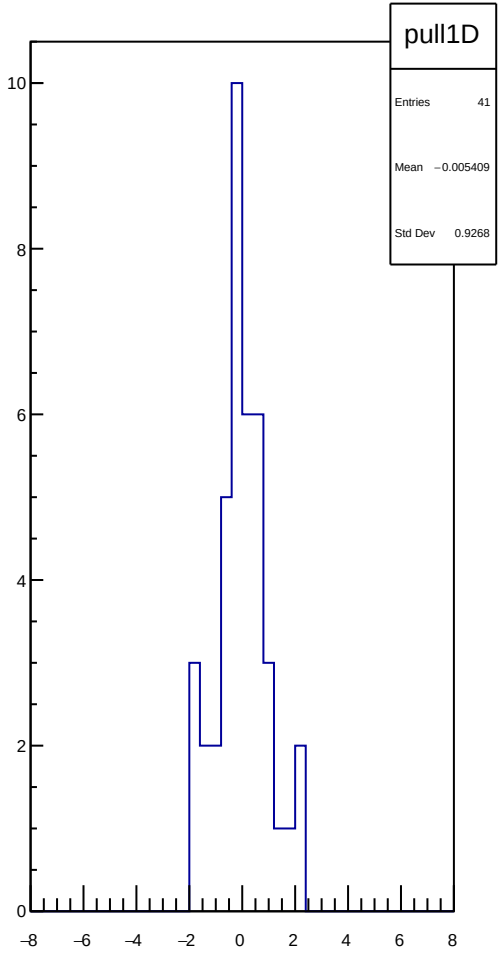

cor_asym_atl2_mean vs run
χ² / ndf 35.22 / 40
p0 6767 ± 3019
pull
Entries 41
Mean 248.9
Std Dev 0
pull1D
Entries 41
Mean −0.005409
Std Dev 0.9268

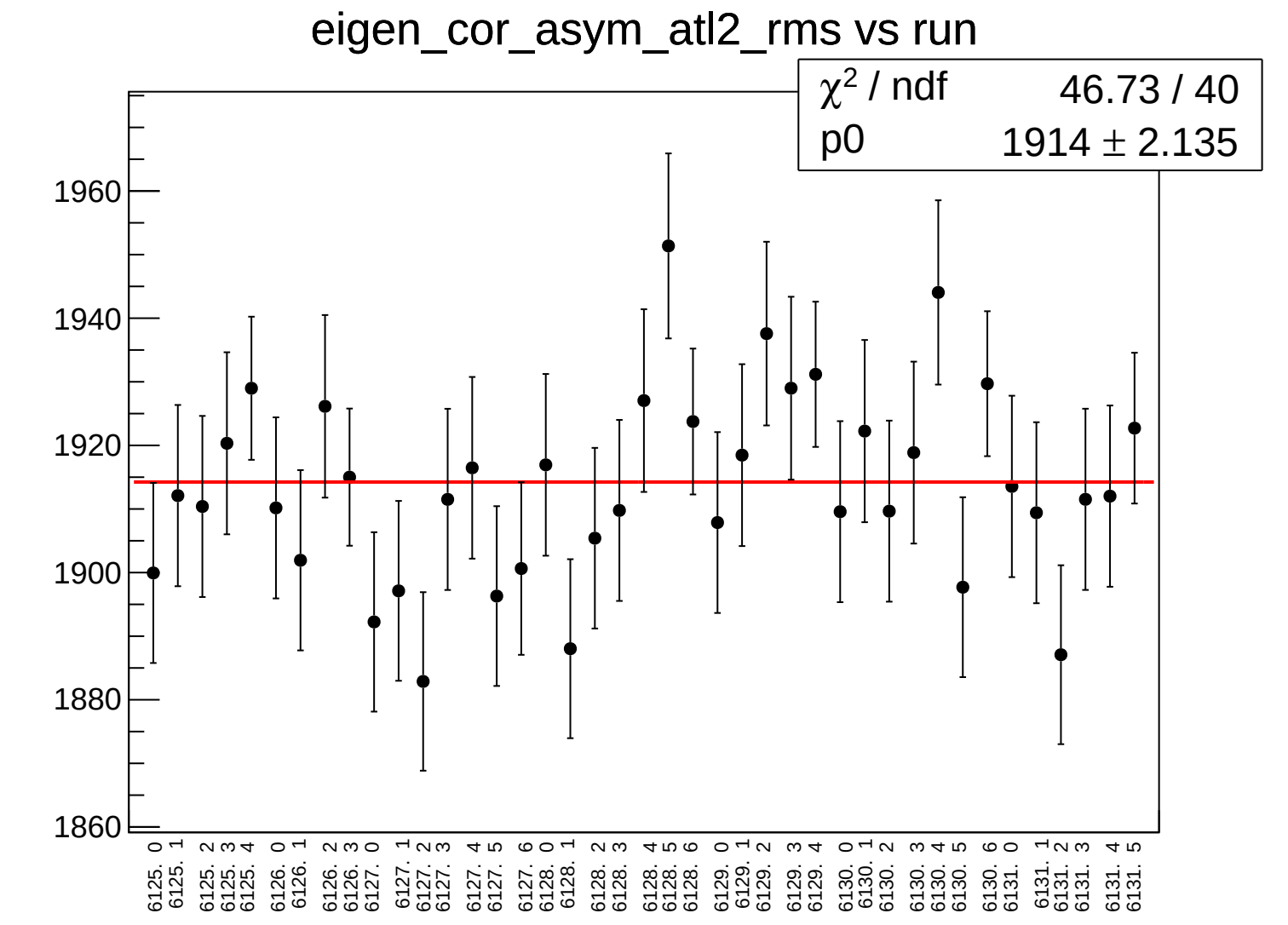

cor_asym_atl2_rms vs run
χ² / ndf 46.73 / 40
p0 1914 ± 2.135
1960
1940
1920
1900
1880
1860
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

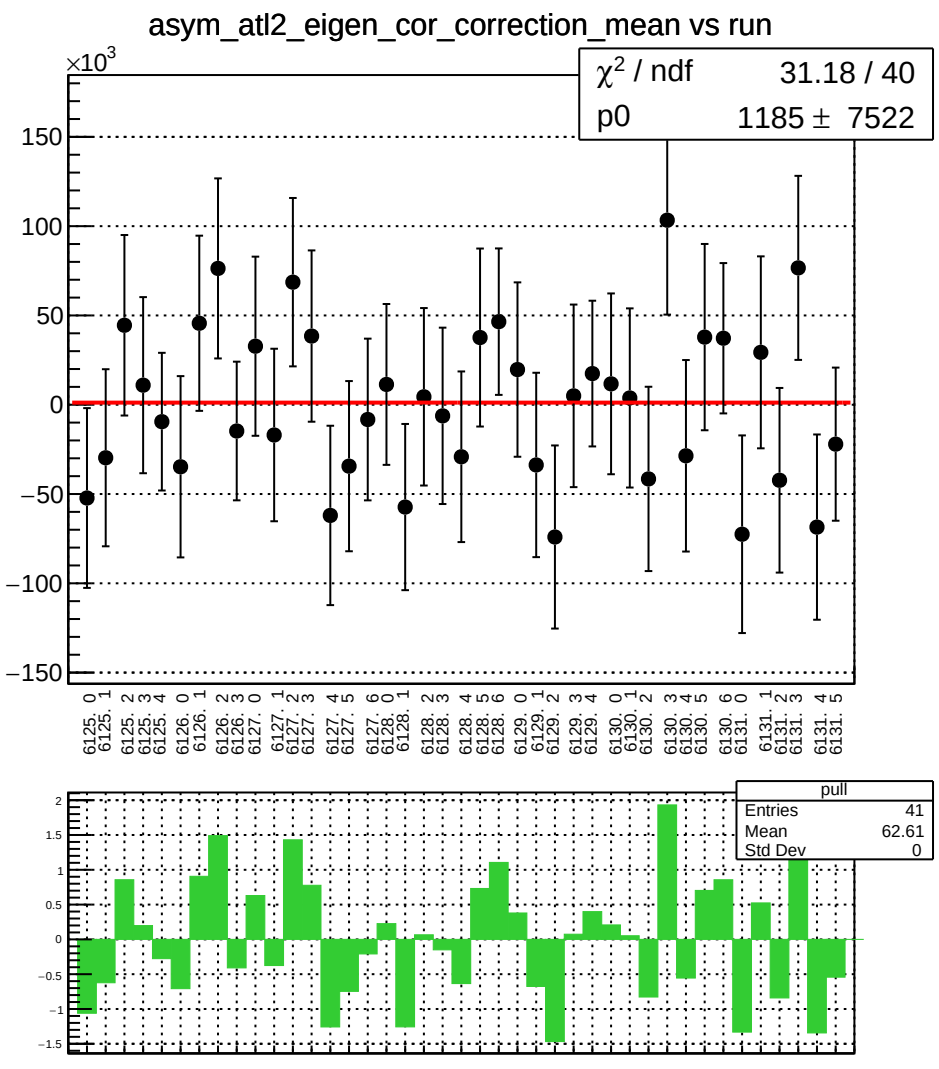

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 31.18 / 40
p0 1185 ± 7522
150
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 62.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.006938
Std Dev 0.8721
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

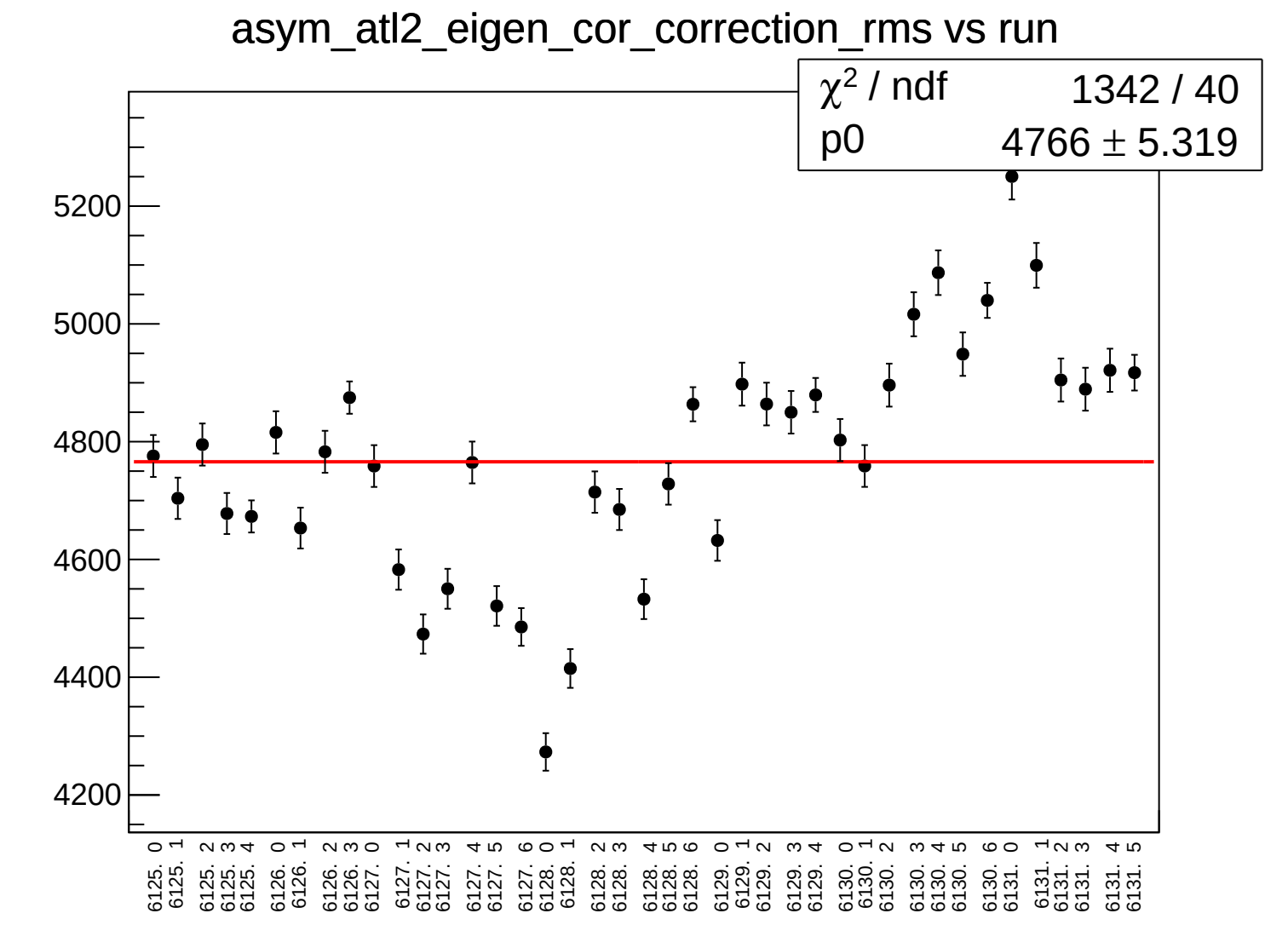

asym_atl2_cor_correction_rms vs run
χ² / ndf 1342 / 40
p0 4766 ± 5.319
5200
5000
4800
4600
4400
4200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

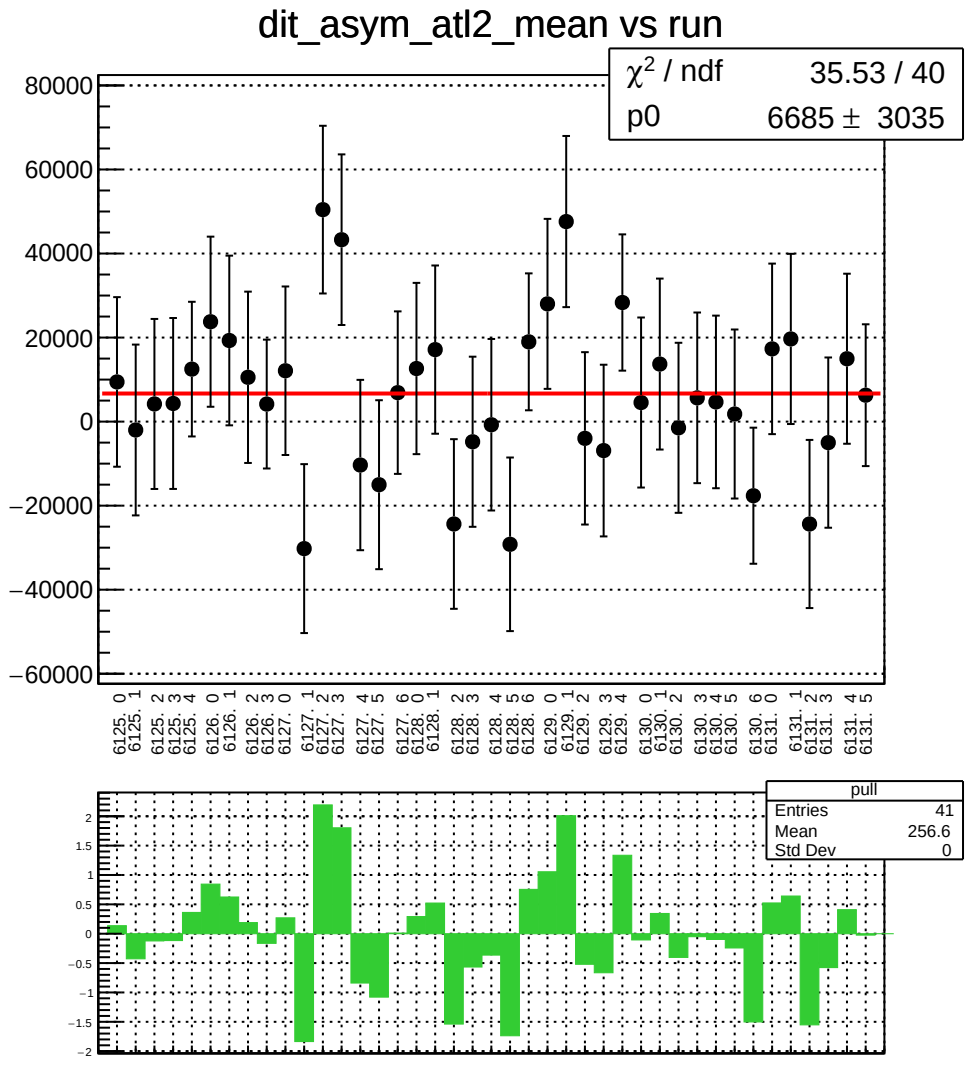

eigen_cor_asym_atl2_mean vs run
χ² / ndf 35.22 / 40
p0 6767 ± 3019
pull
Entries 41
Mean 248.9
Std Dev 0

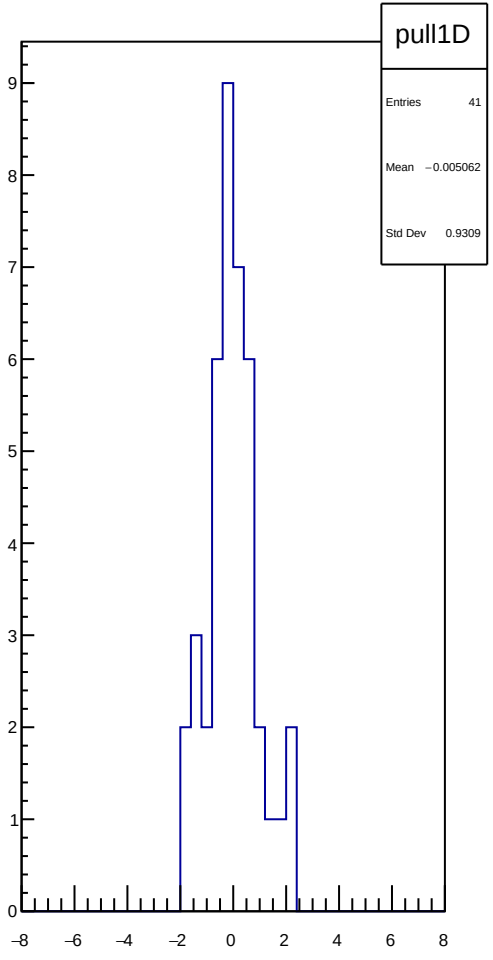

pull1D
Entries 41
Mean −0.005409
Std Dev 0.9268

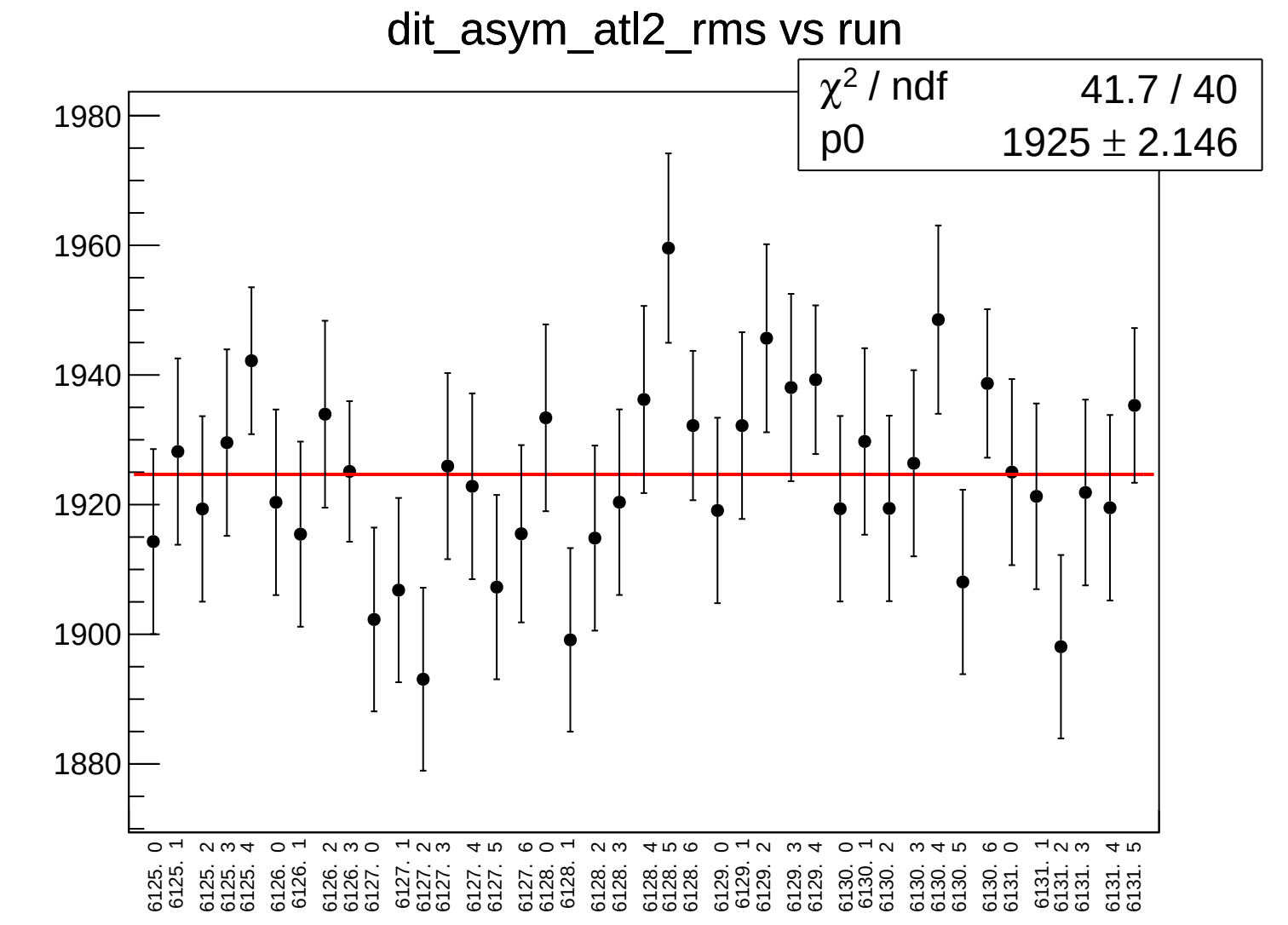

eigen_cor_asym_atl2_rms vs run
χ² / ndf 46.73 / 40
p0 1914 ± 2.135
1960
1940
1920
1900
1880
1860
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

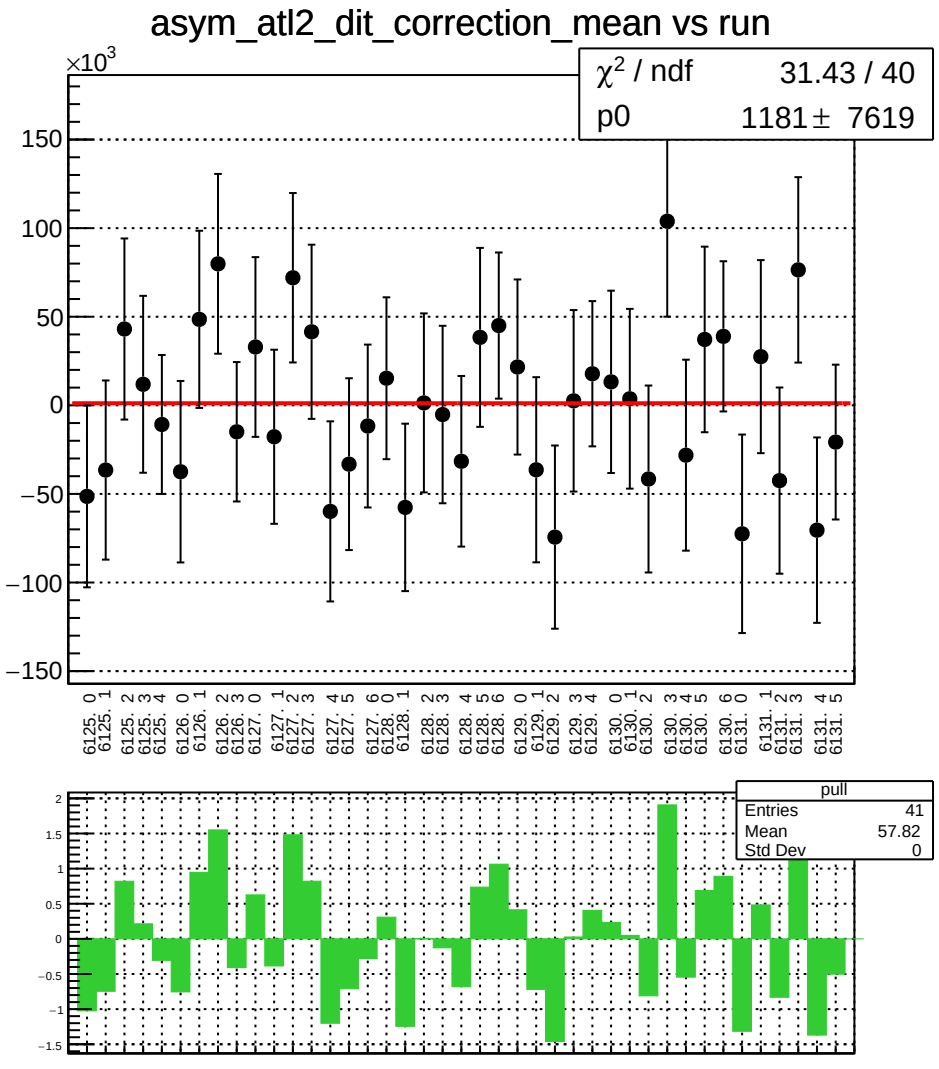

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 31.18 / 40
p0 1185 ± 7522
150
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 62.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.006938
Std Dev 0.8721
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

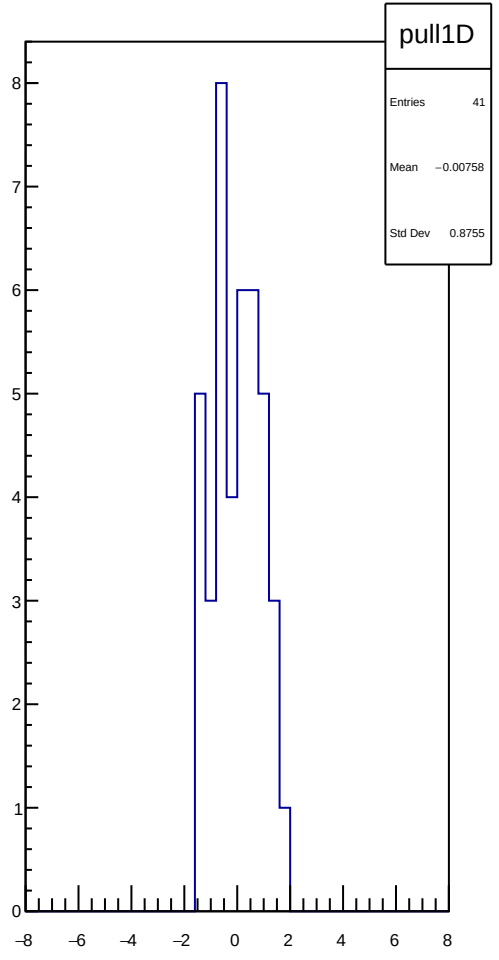

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 1342 / 40
p0 4766 ± 5.319
5200
5000
4800
4600
4400
4200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

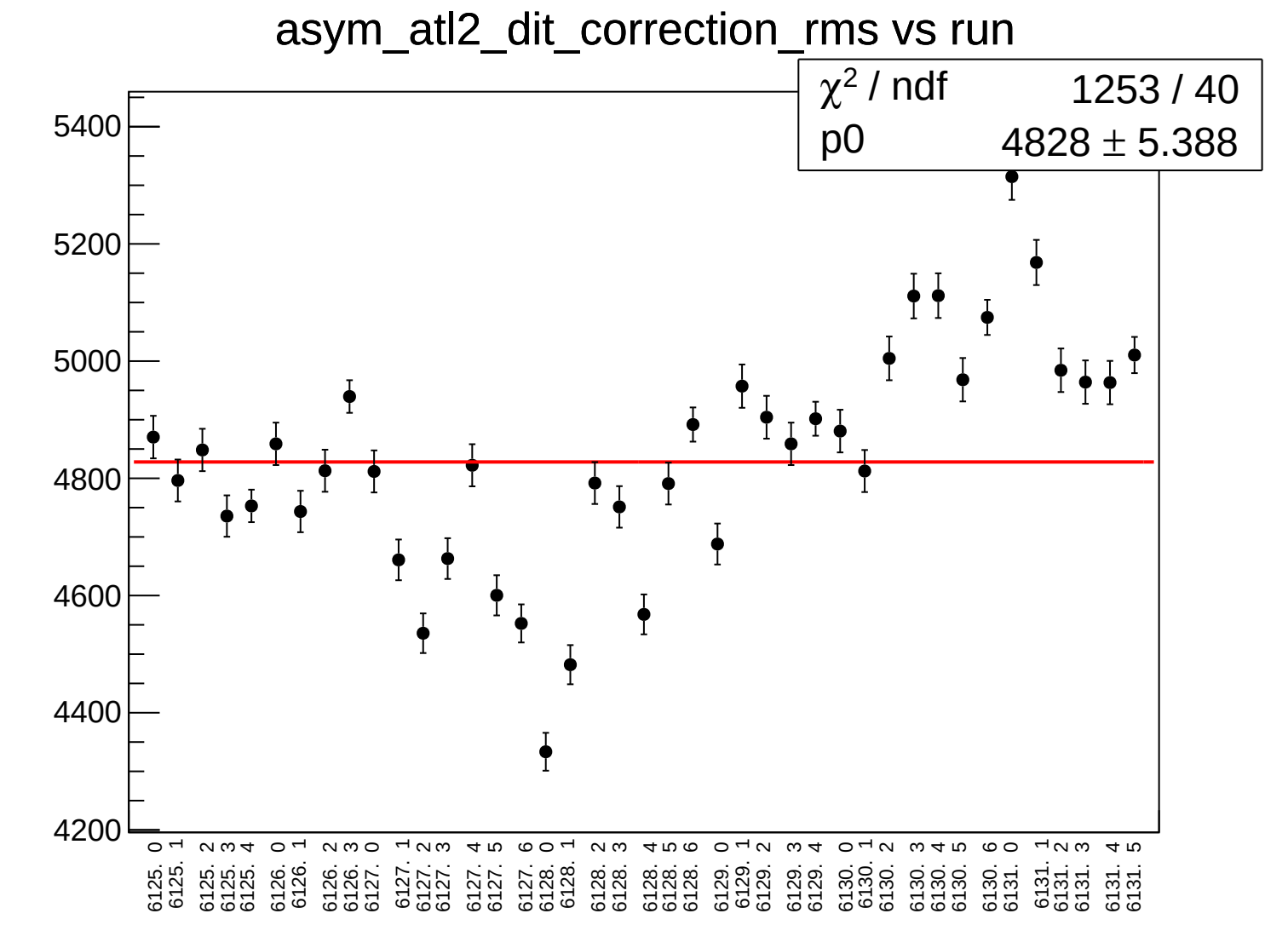

dit_asym_atl2_mean vs run
χ² / ndf 35.53 / 40
p0 6685 ± 3035
80000
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 256.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

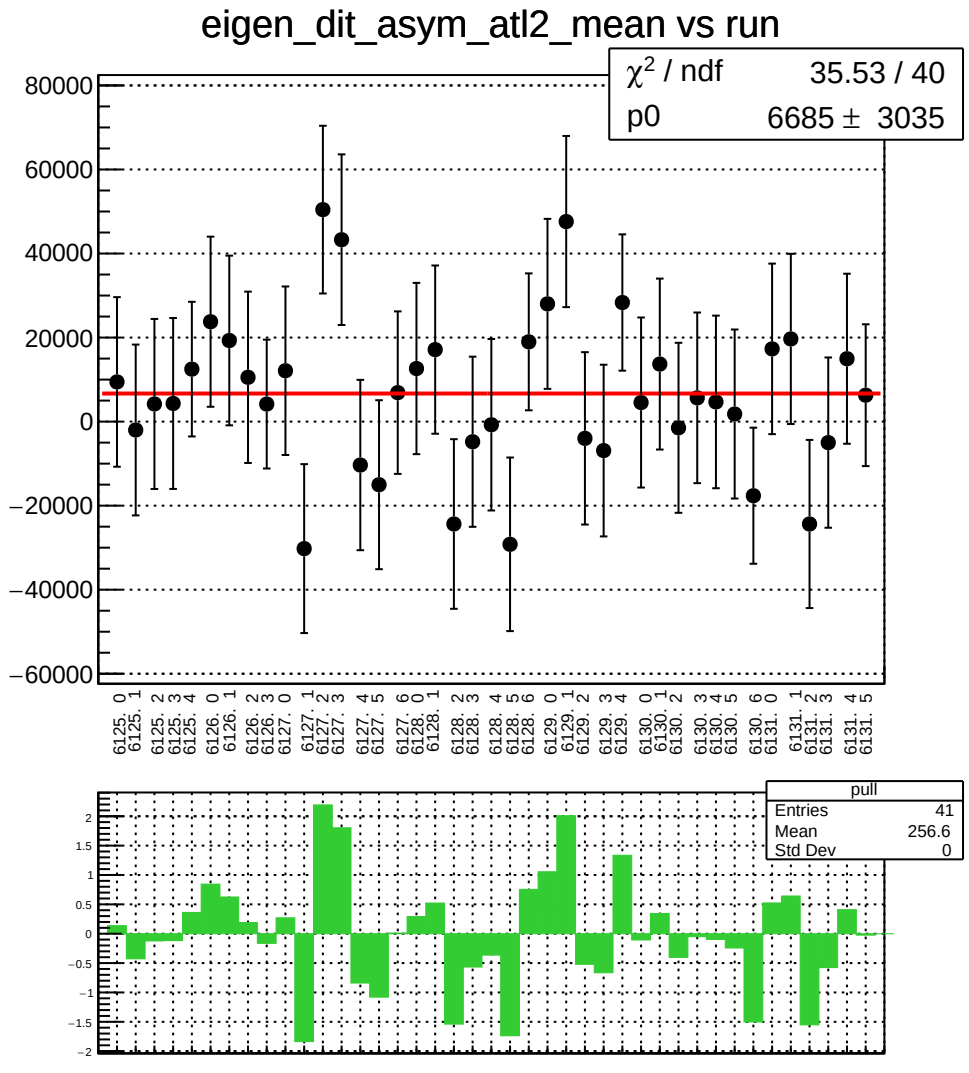

pull1D
Entries 41
Mean −0.005062
Std Dev 0.9309
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

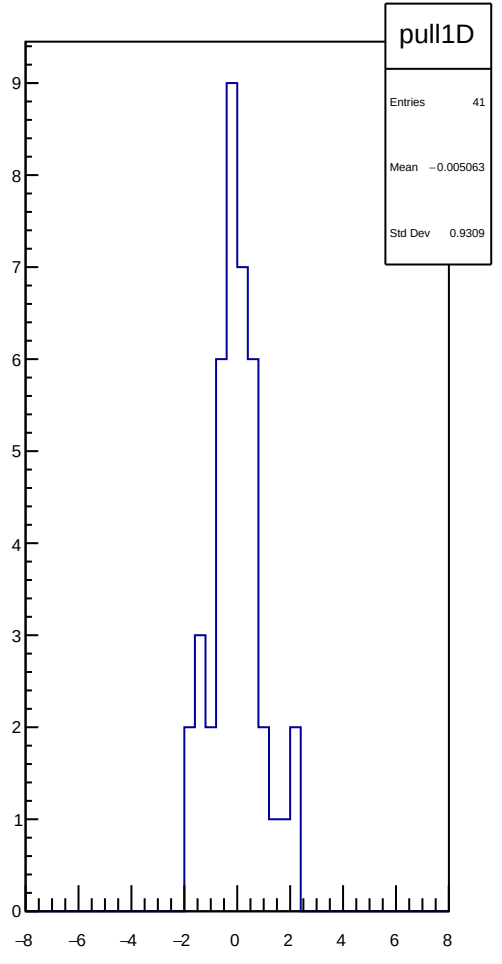

dit_asym_atl2_rms vs run
χ² / ndf 41.7 / 40
p0 1925 ± 2.146
1980
1960
1940
1920
1900
1880
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

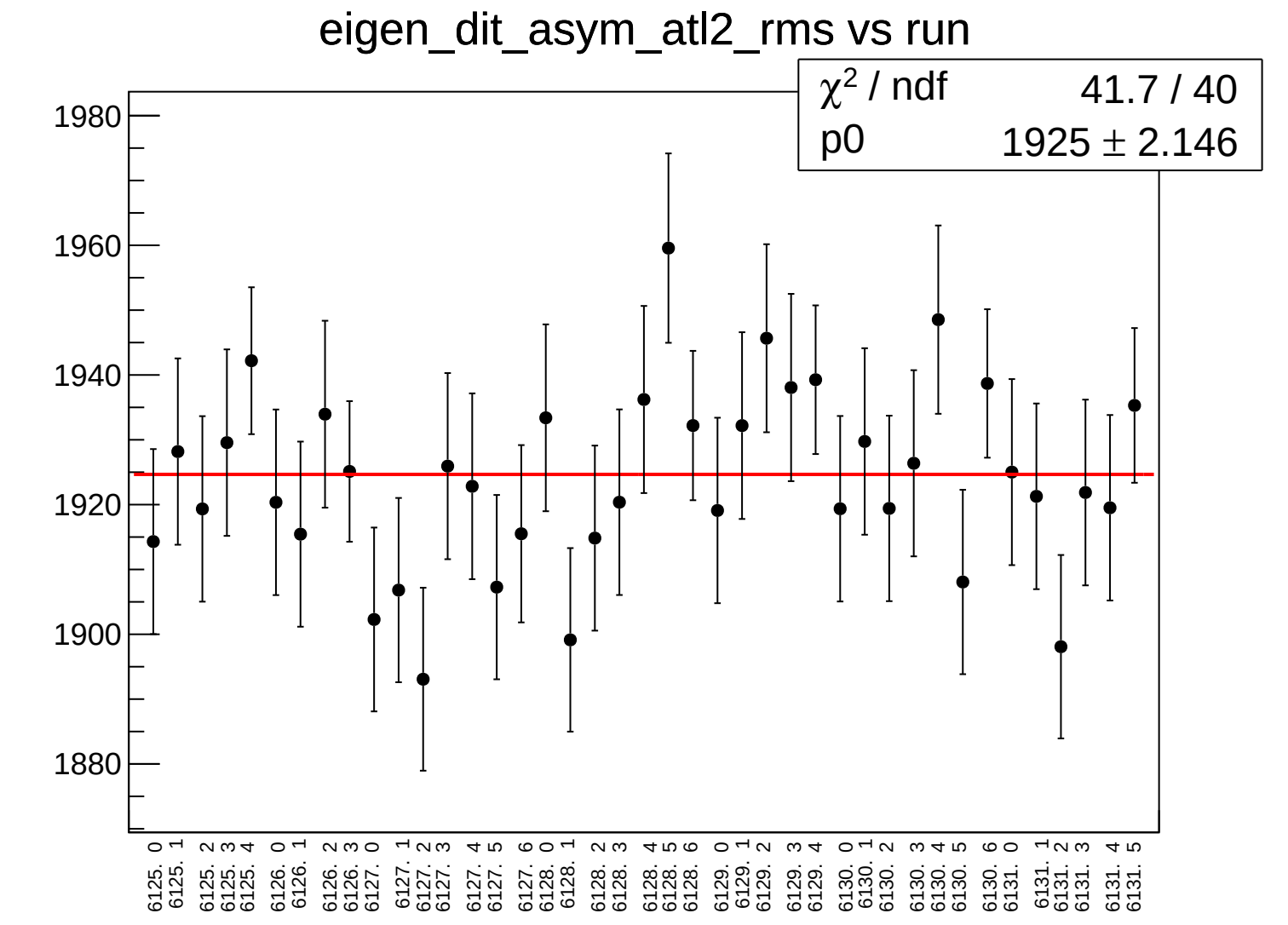

asym_atl2_dit_correction_mean vs run
×10^3
χ^2 / ndf 31.43 / 40
p0 1181 ± 7619
150
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 57.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

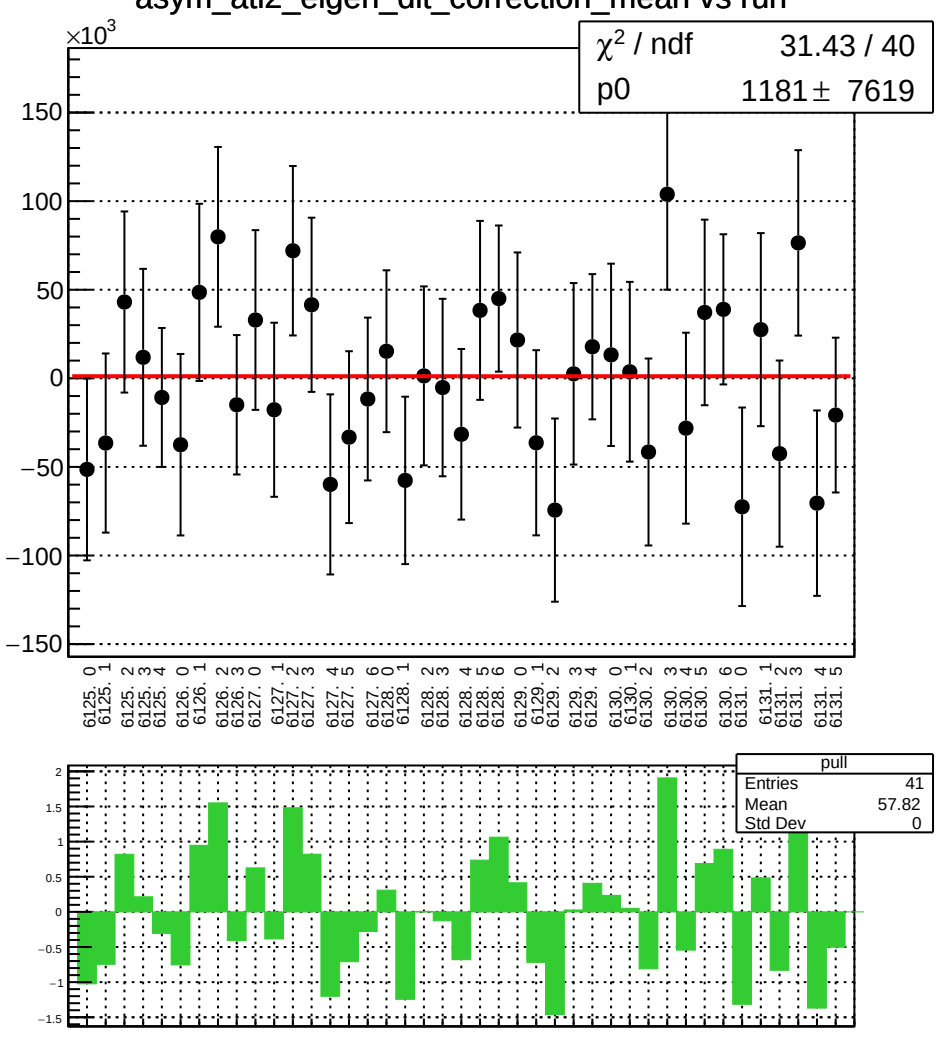

pull1D
Entries 41
Mean −0.00758
Std Dev 0.8755
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

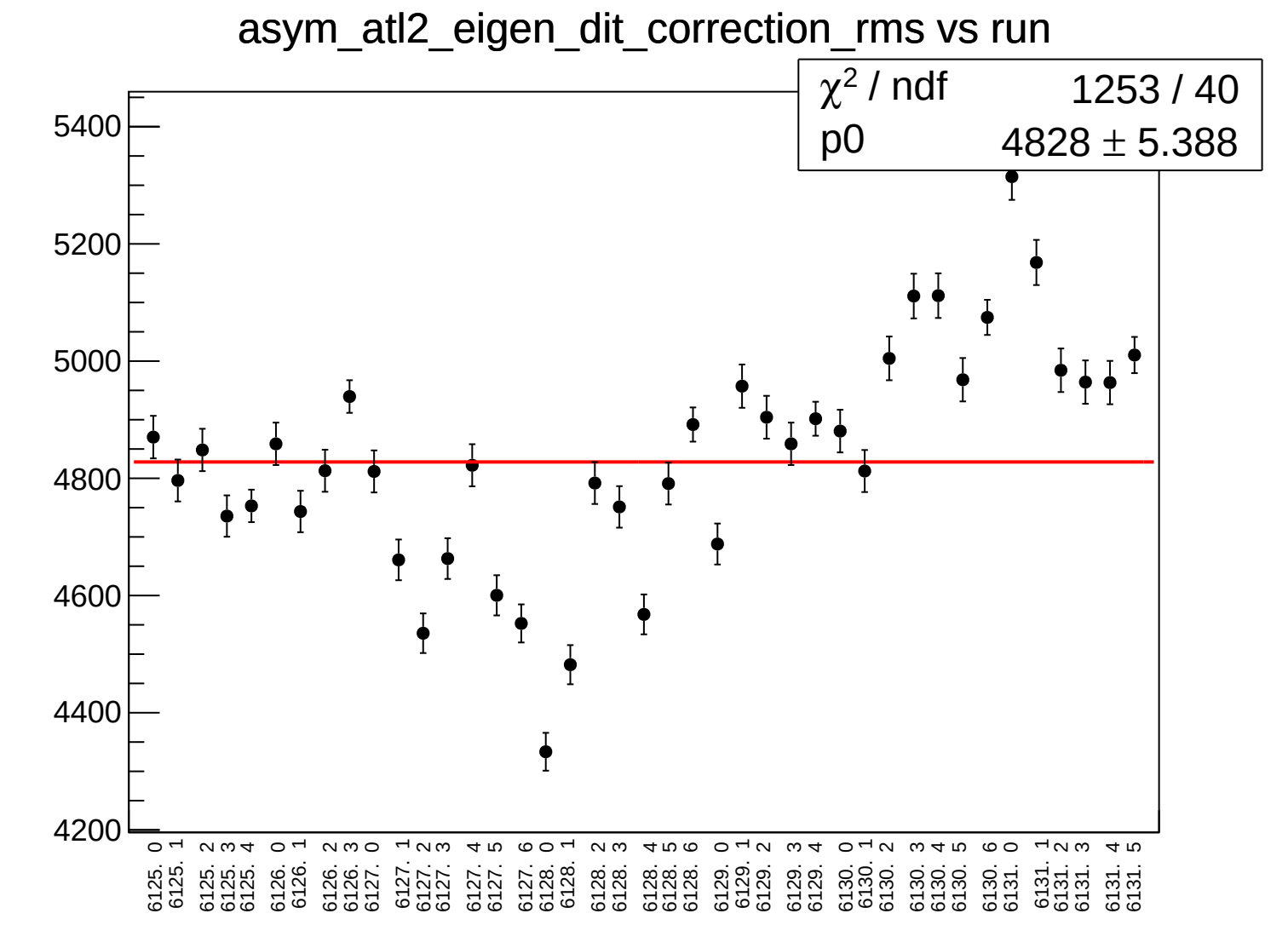

asym_atl2_dit_correction_rms vs run
χ² / ndf 1253 / 40
p0 4828 ± 5.388
5400
5200
5000
4800
4600
4400
4200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

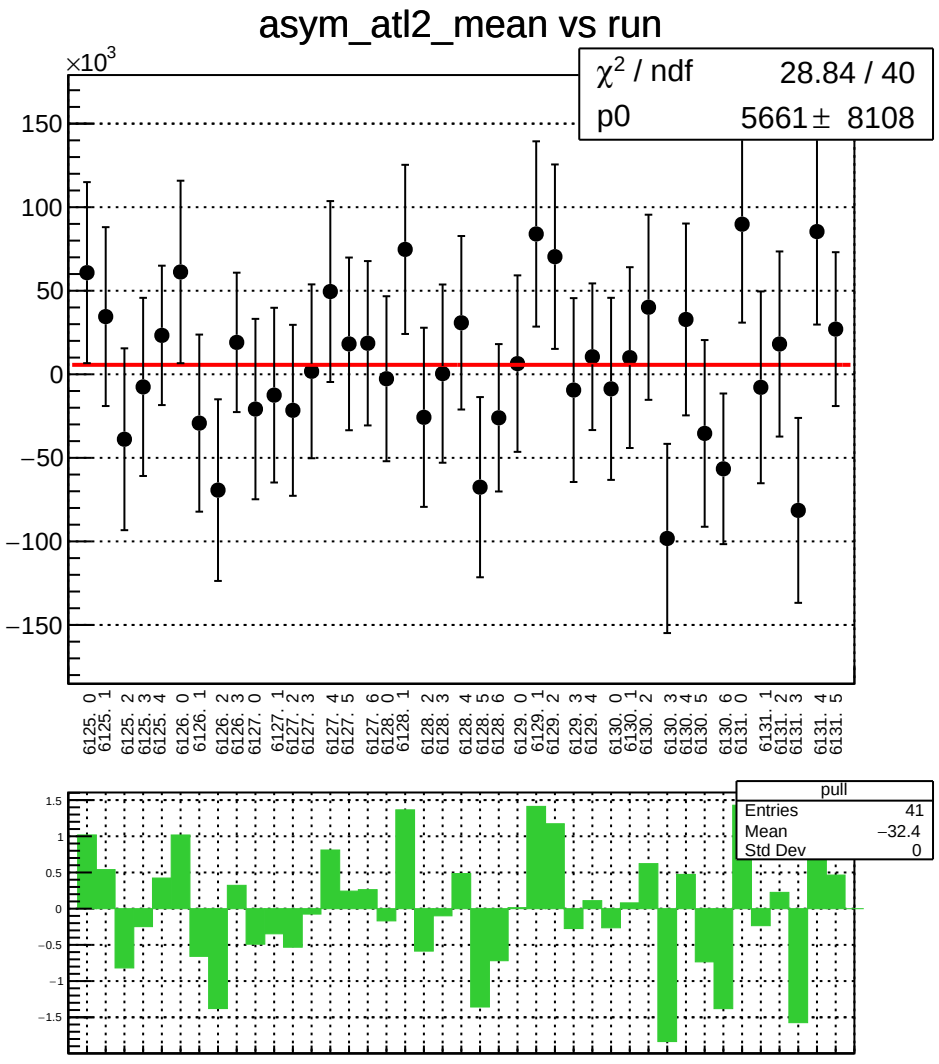

eigen_dit_asym_atl2_mean vs run
χ² / ndf 35.53 / 40
p0 6685 ± 3035
80000
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 256.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

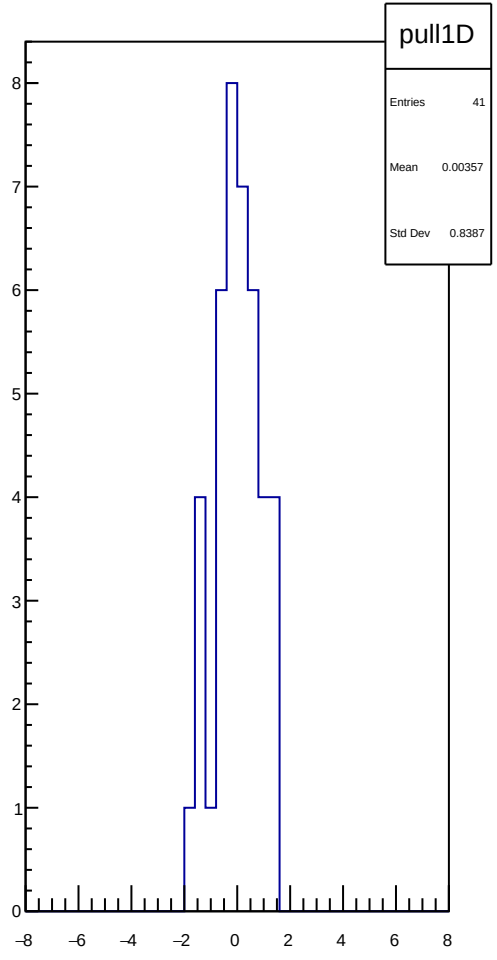

pull1D
Entries 41
Mean −0.005063
Std Dev 0.9309
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

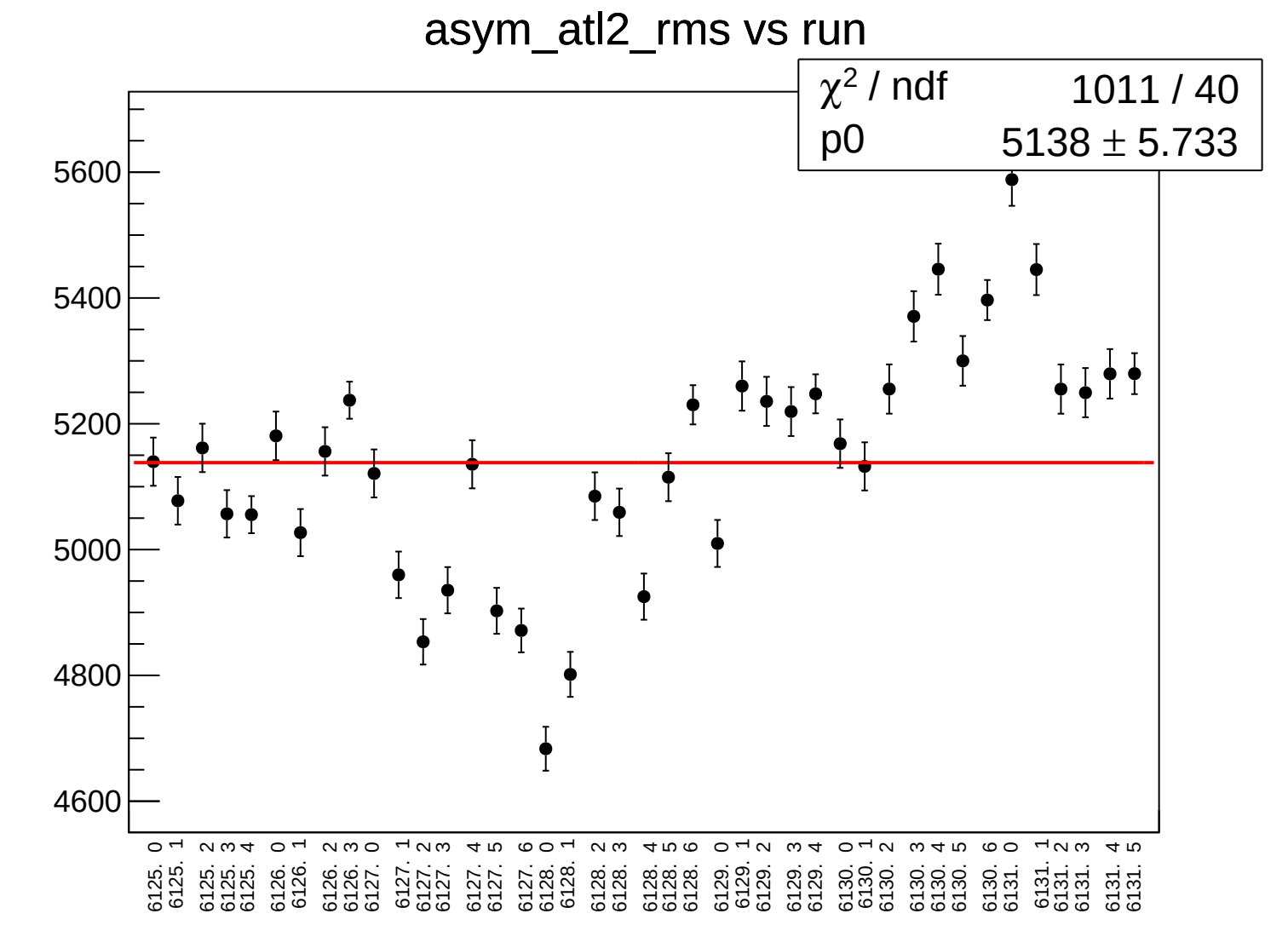

eigen_dit_asym_atl2_rms vs run
χ² / ndf 41.7 / 40
p0 1925 ± 2.146
1980
1960
1940
1920
1900
1880
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

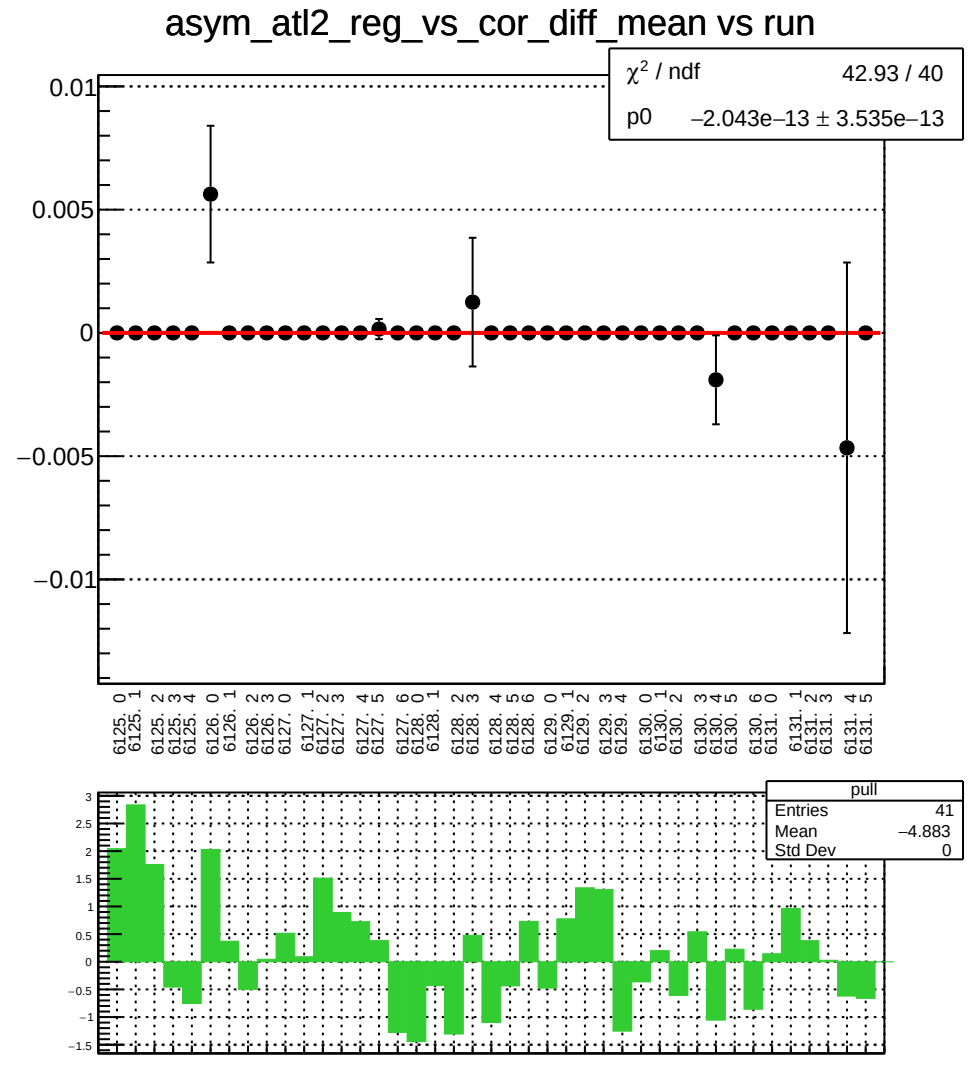

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 31.43 / 40
p0 1181 ± 7619
150
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 57.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.007581
Std Dev 0.8755
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

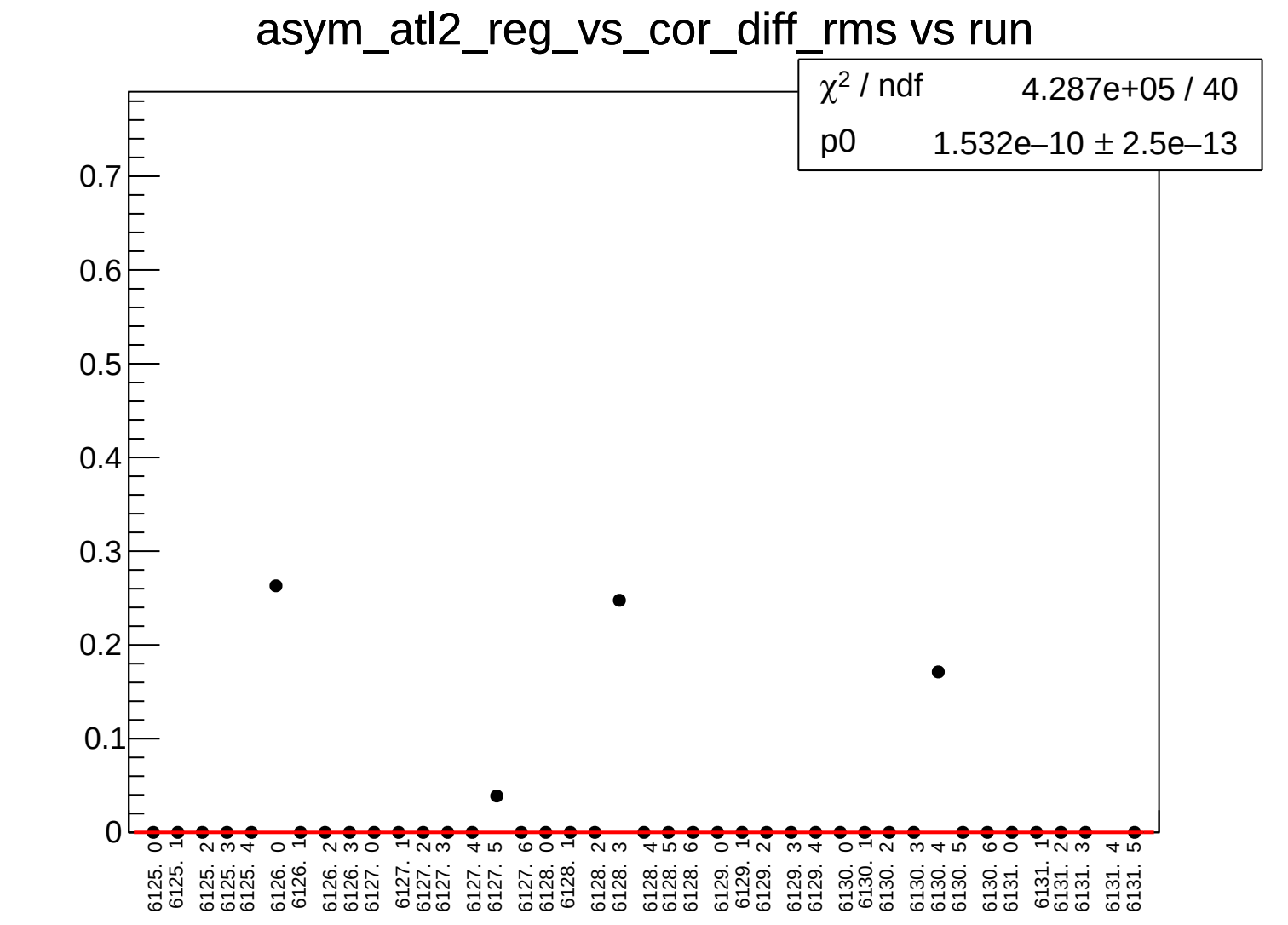

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 1253 / 40
p0 4828 ± 5.388
5400
5200
5000
4800
4600
4400
4200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

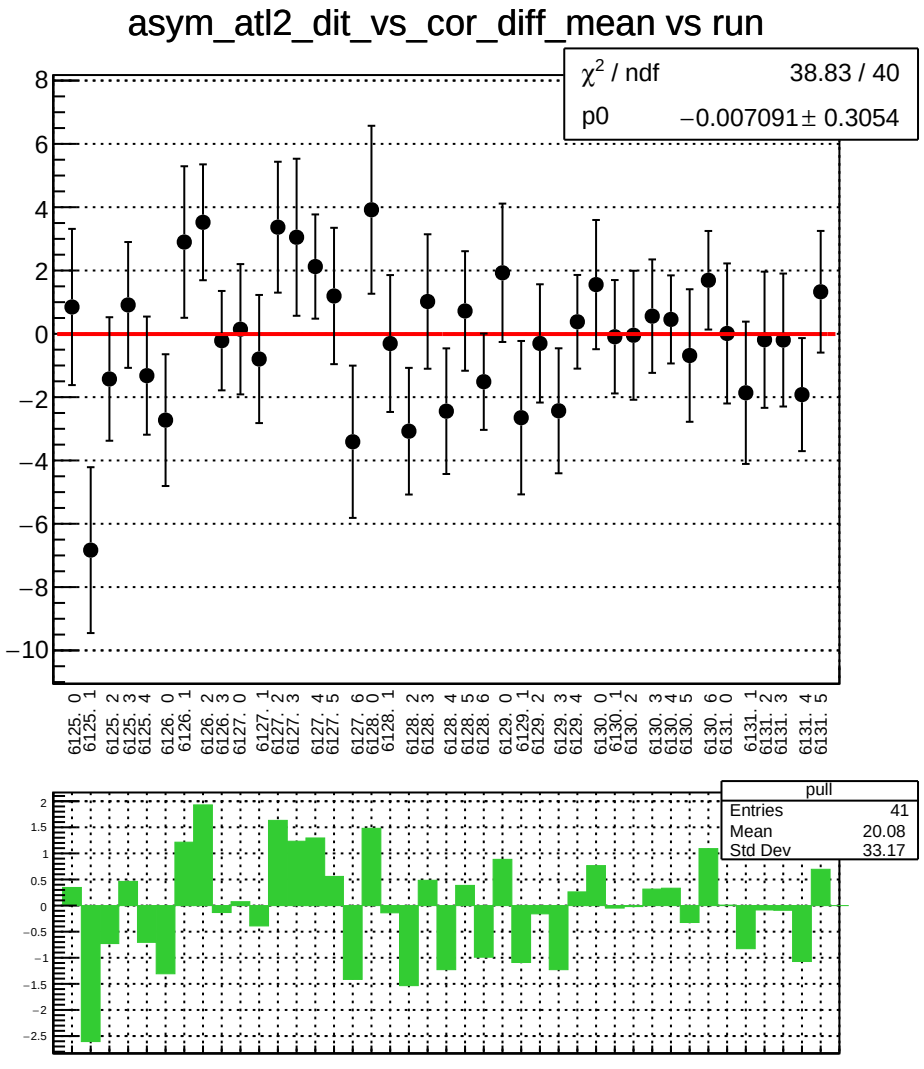

asym_atl2_mean vs run
×10^3
χ^2 / ndf 28.84 / 40
p0 5661 ± 8108
150
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −32.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

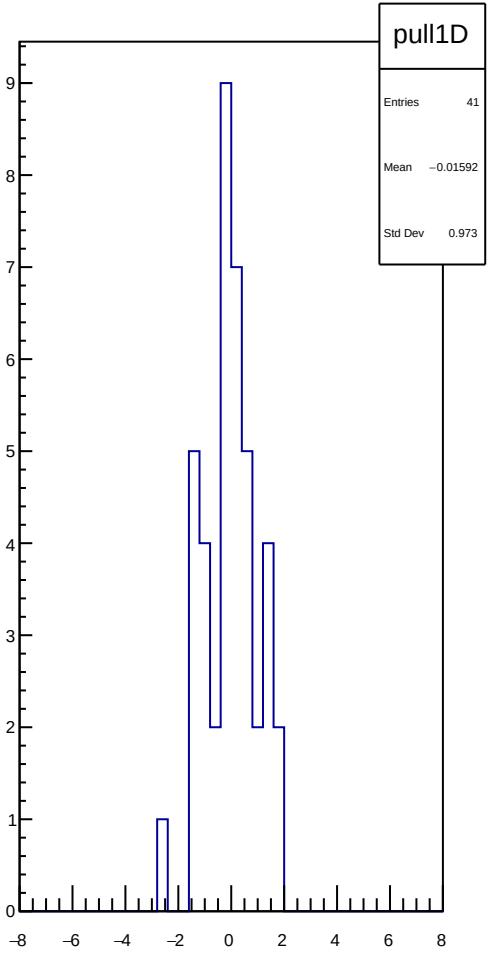

pull1D
Entries 41
Mean 0.00357
Std Dev 0.8387
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

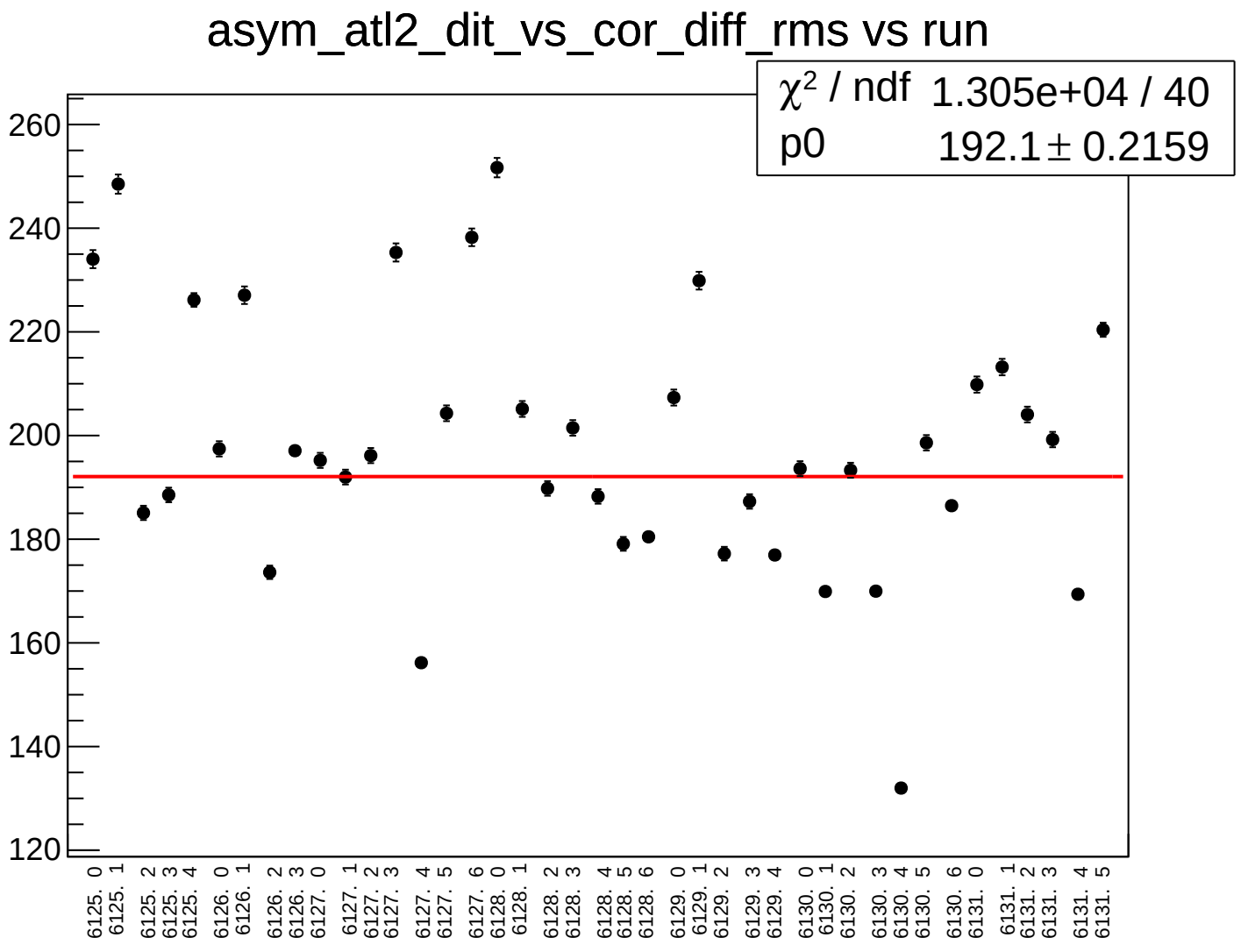

asym_atl2_rms vs run
χ^2 / ndf 1011 / 40
p0 5138 ± 5.733
5600
5400
5200
5000
4800
4600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

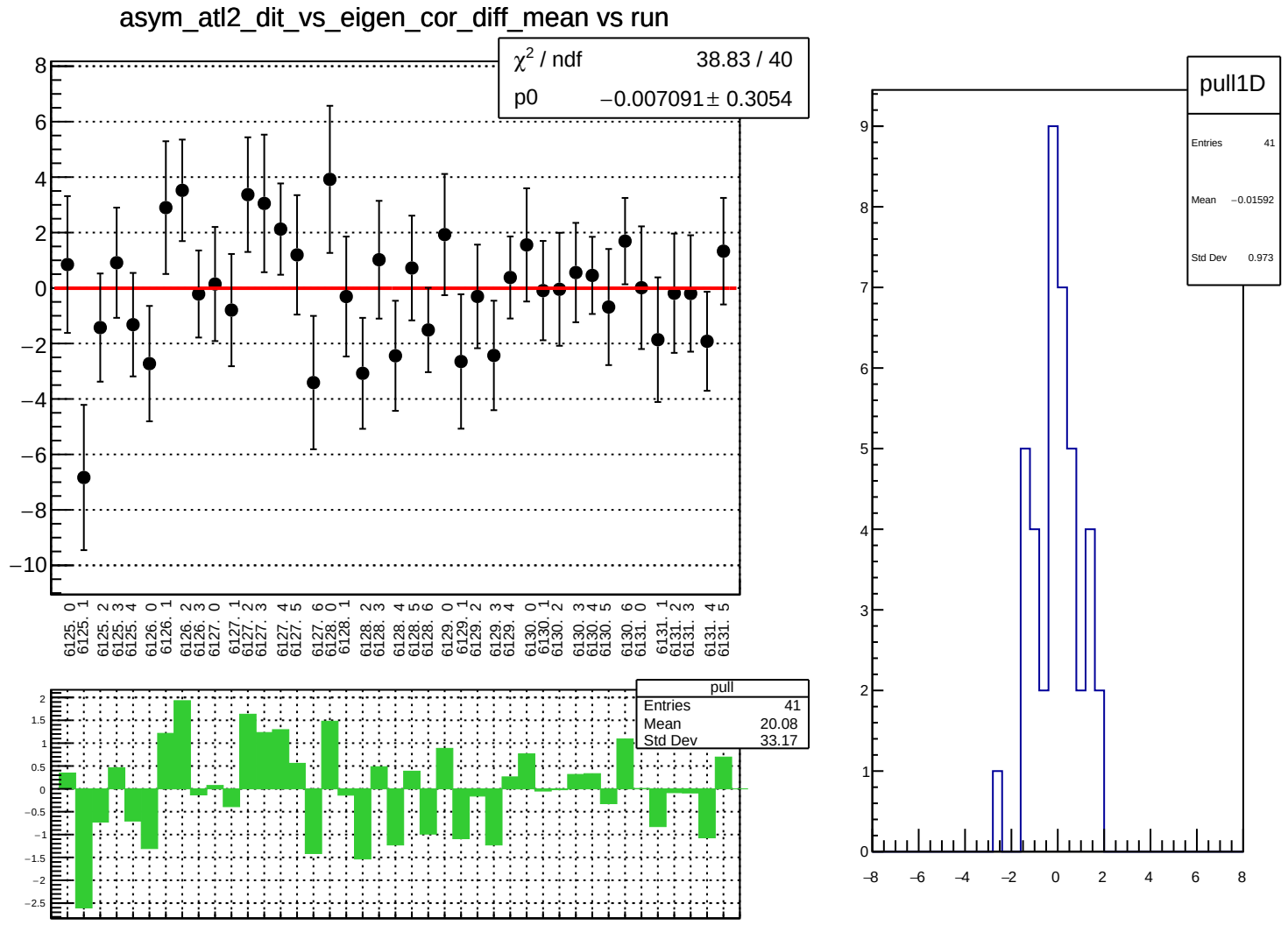

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 42.93 / 40
p0 −2.043e−13 ± 3.535e−13
0.01
0.005
0
−0.005
−0.01
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −4.883
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.1637
Std Dev 1.01
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

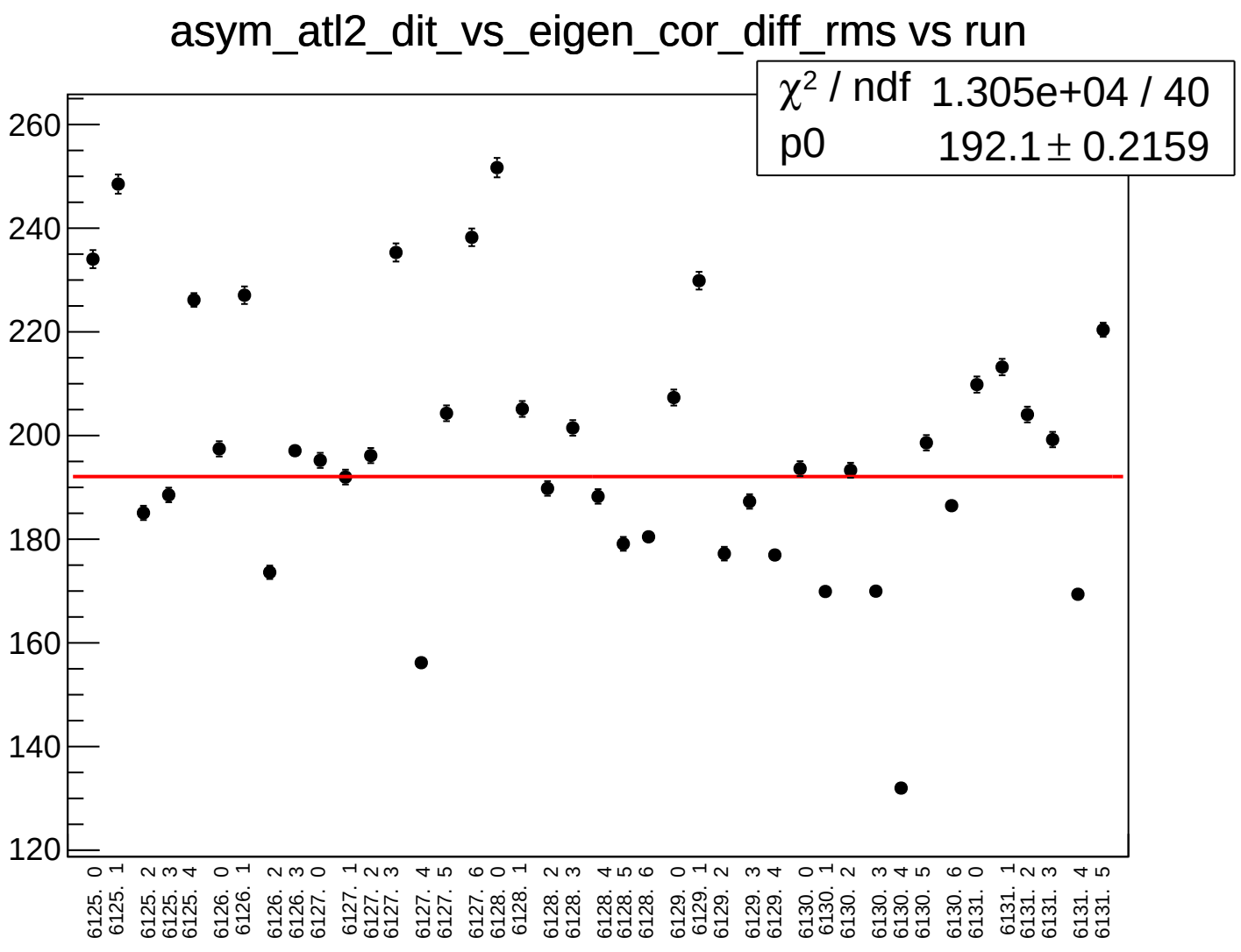

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 4.287e+05 / 40
p0 1.532e−10 ± 2.5e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

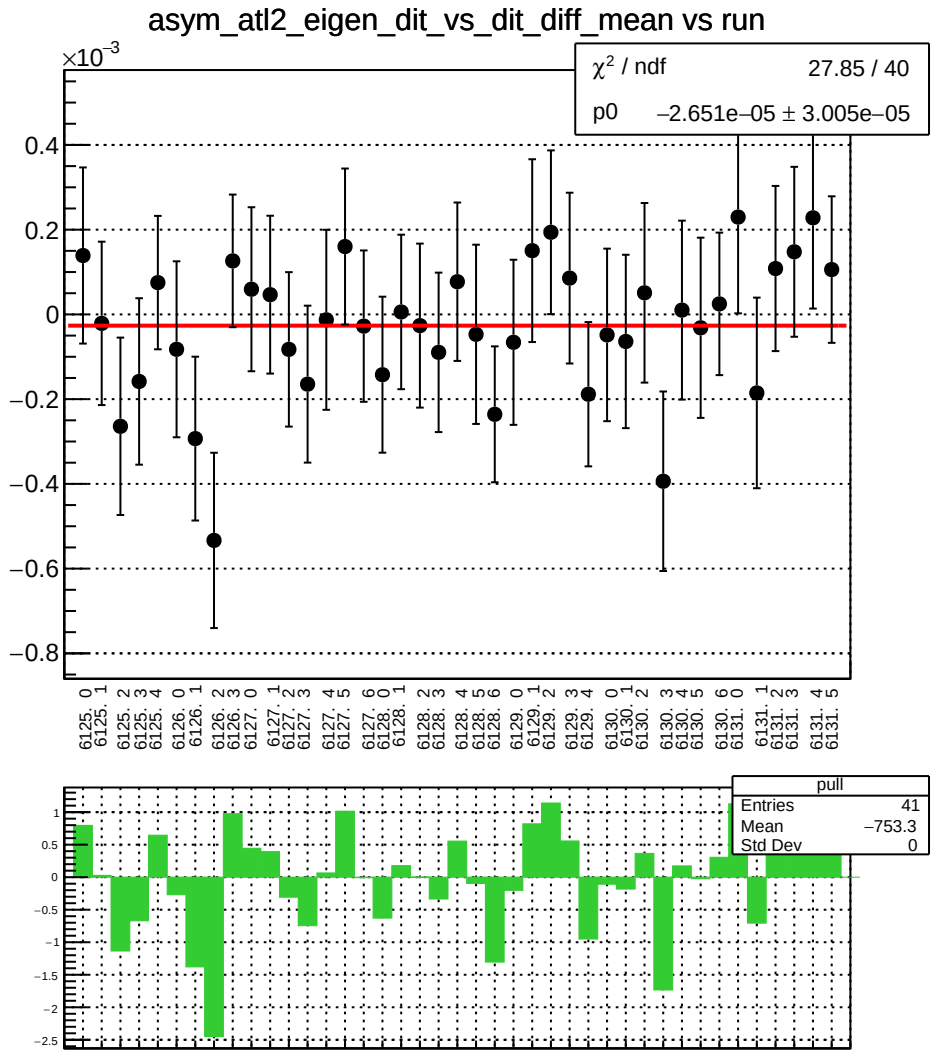

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 38.83 / 40
p0 −0.007091 ± 0.3054
pull
Entries 41
Mean 20.08
Std Dev 33.17

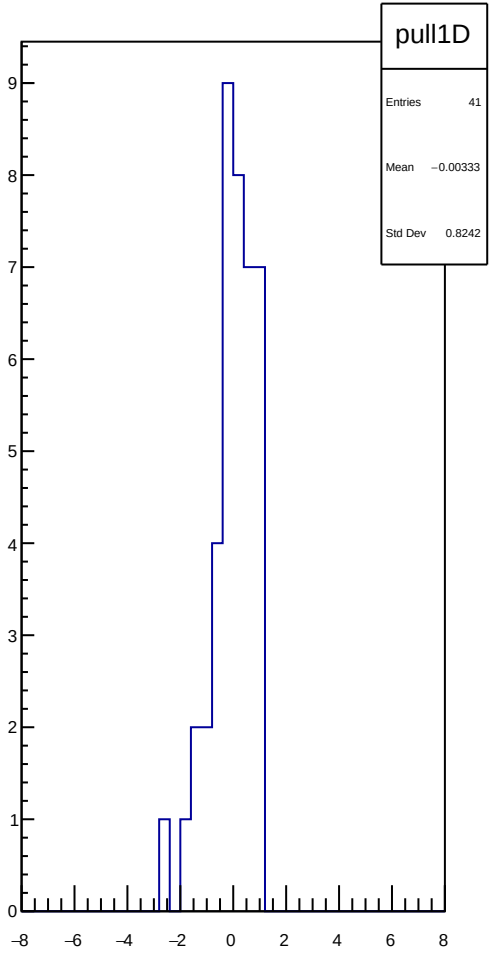

pull1D
Entries 41
Mean −0.01592
Std Dev 0.973

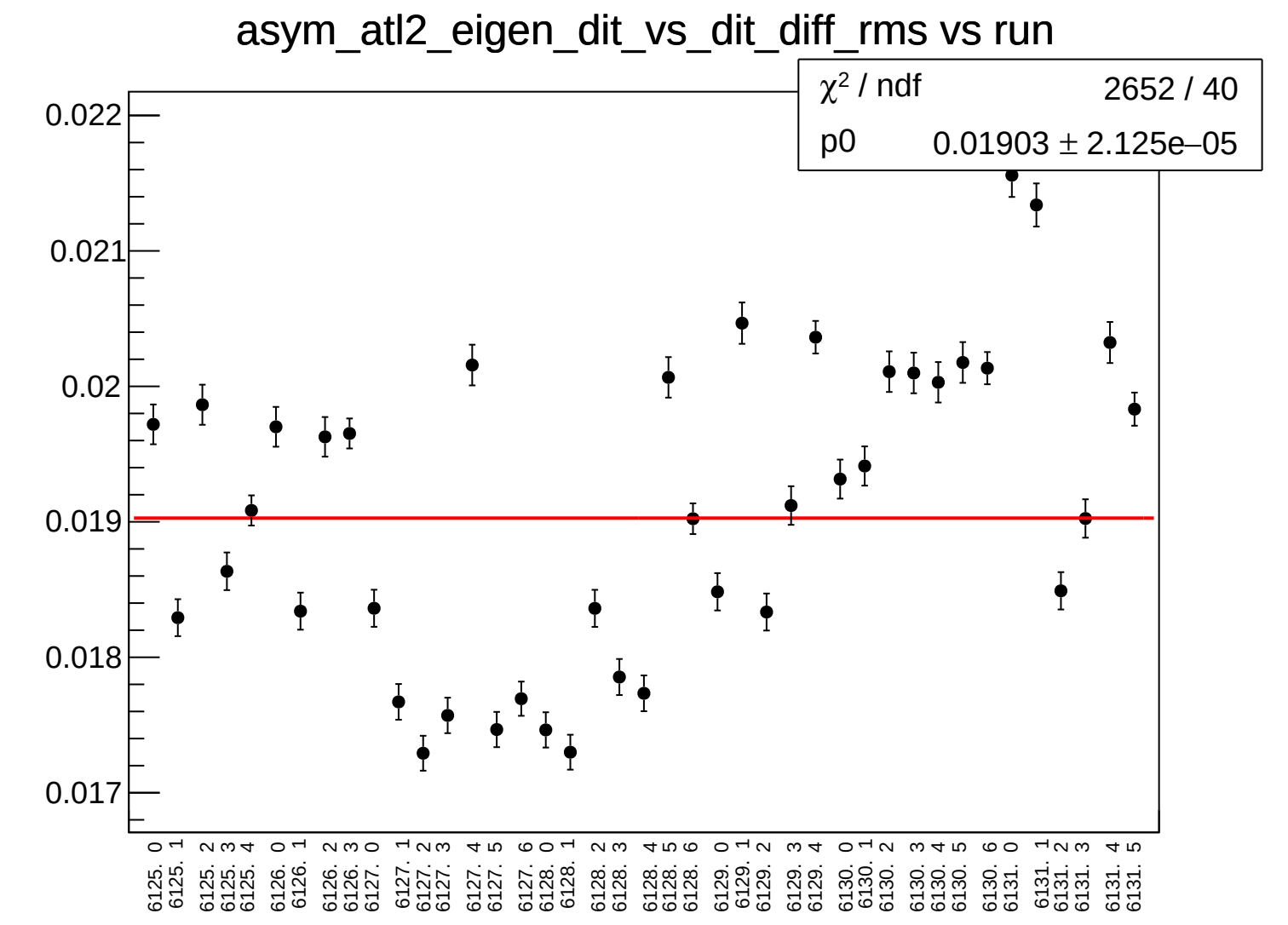

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.305e+04 / 40
p0 192.1 ± 0.2159
260
240
220
200
180
160
140
120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

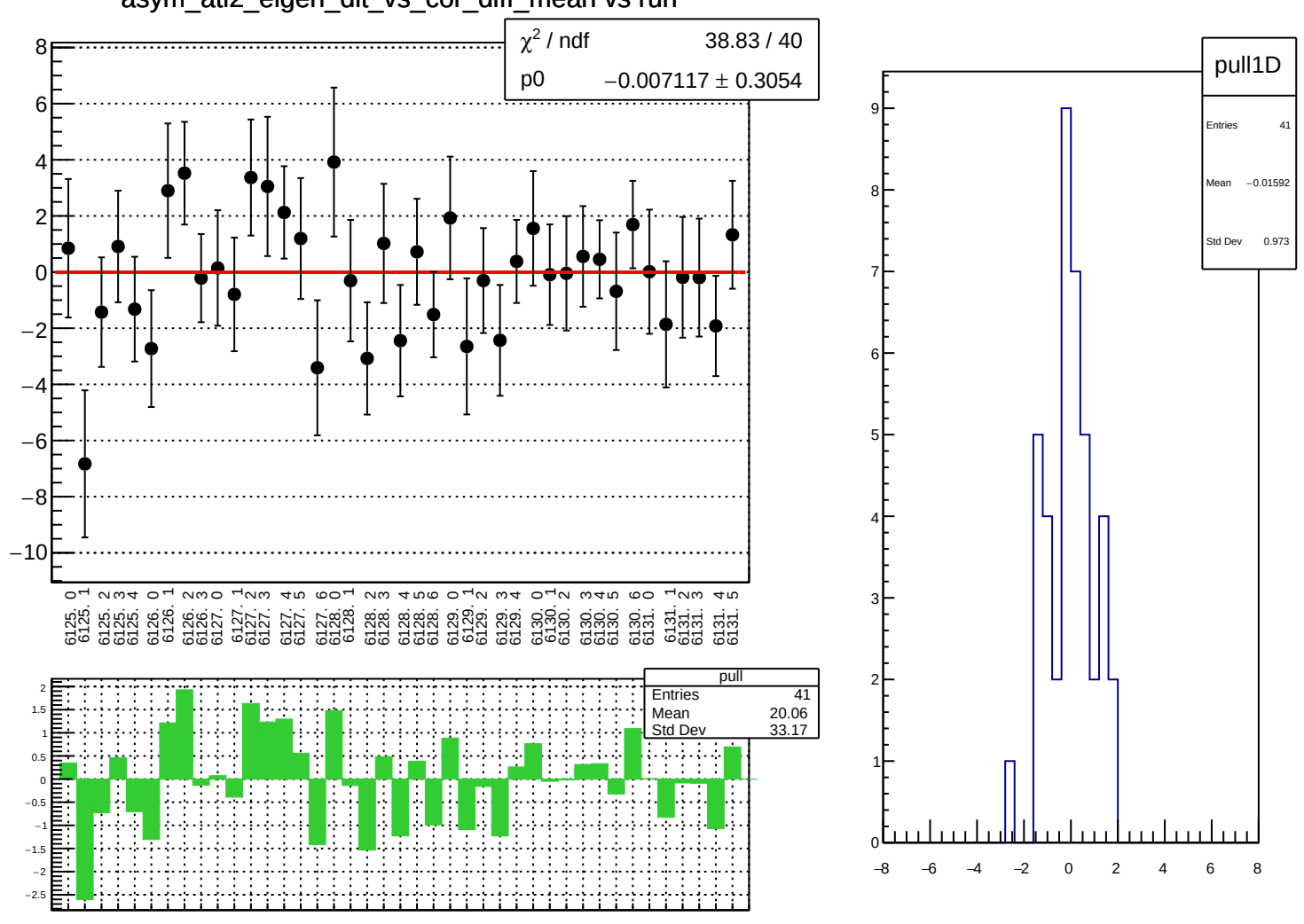

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.83 / 40
p0 −0.007091 ± 0.3054
pull
Entries 41
Mean 20.08
Std Dev 33.17
pull1D
Entries 41
Mean −0.01592
Std Dev 0.973

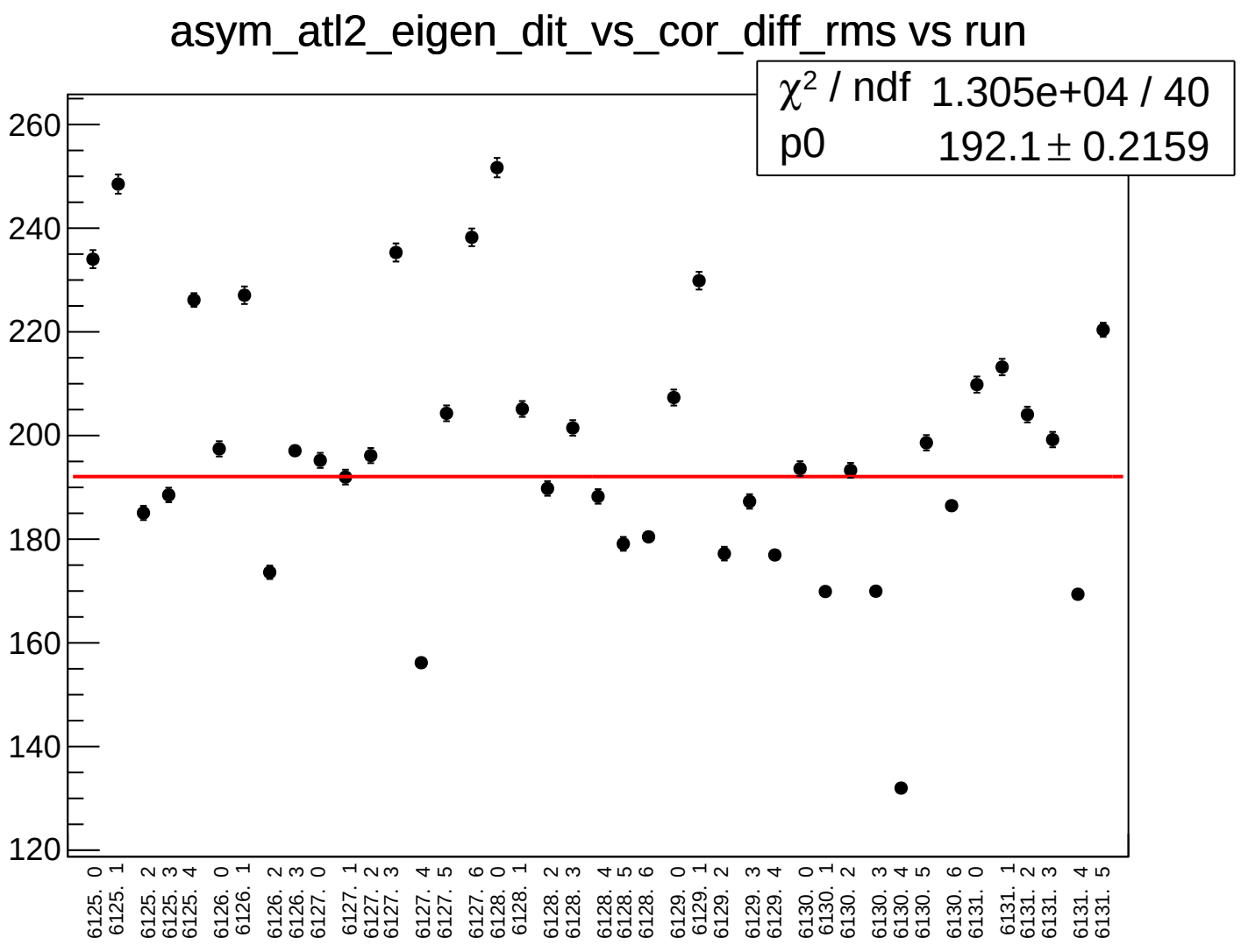

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.305e+04 / 40
p0 192.1 ± 0.2159
260
240
220
200
180
160
140
120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

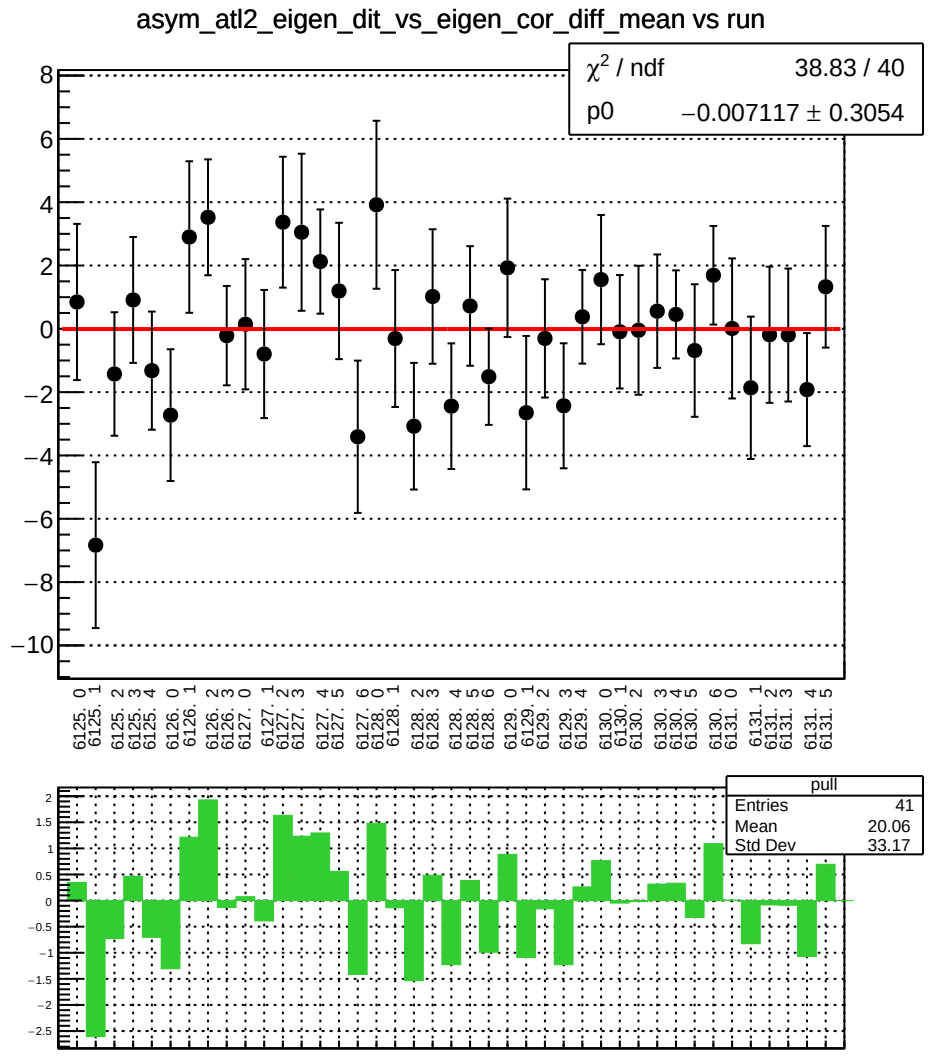

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 27.85 / 40
p0 −2.651e−05 ± 3.005e−05
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −753.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

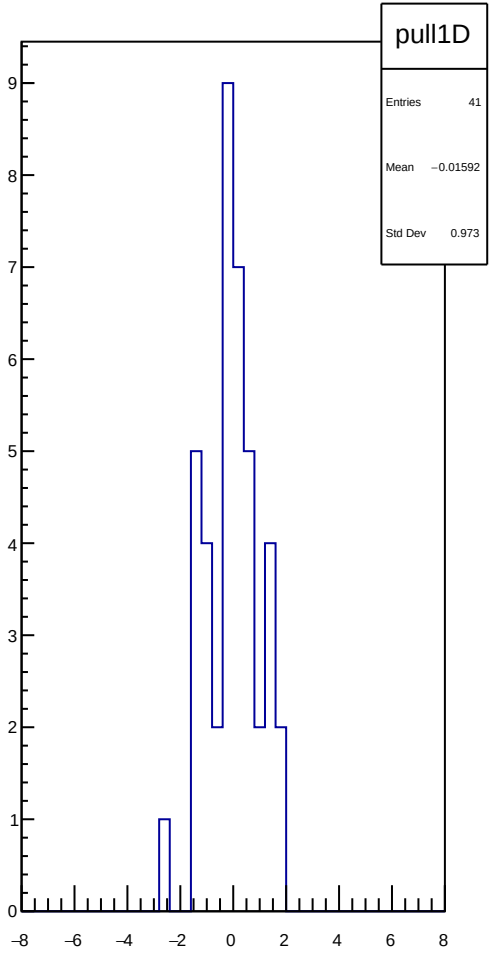

pull1D
Entries 41
Mean −0.00333
Std Dev 0.8242
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

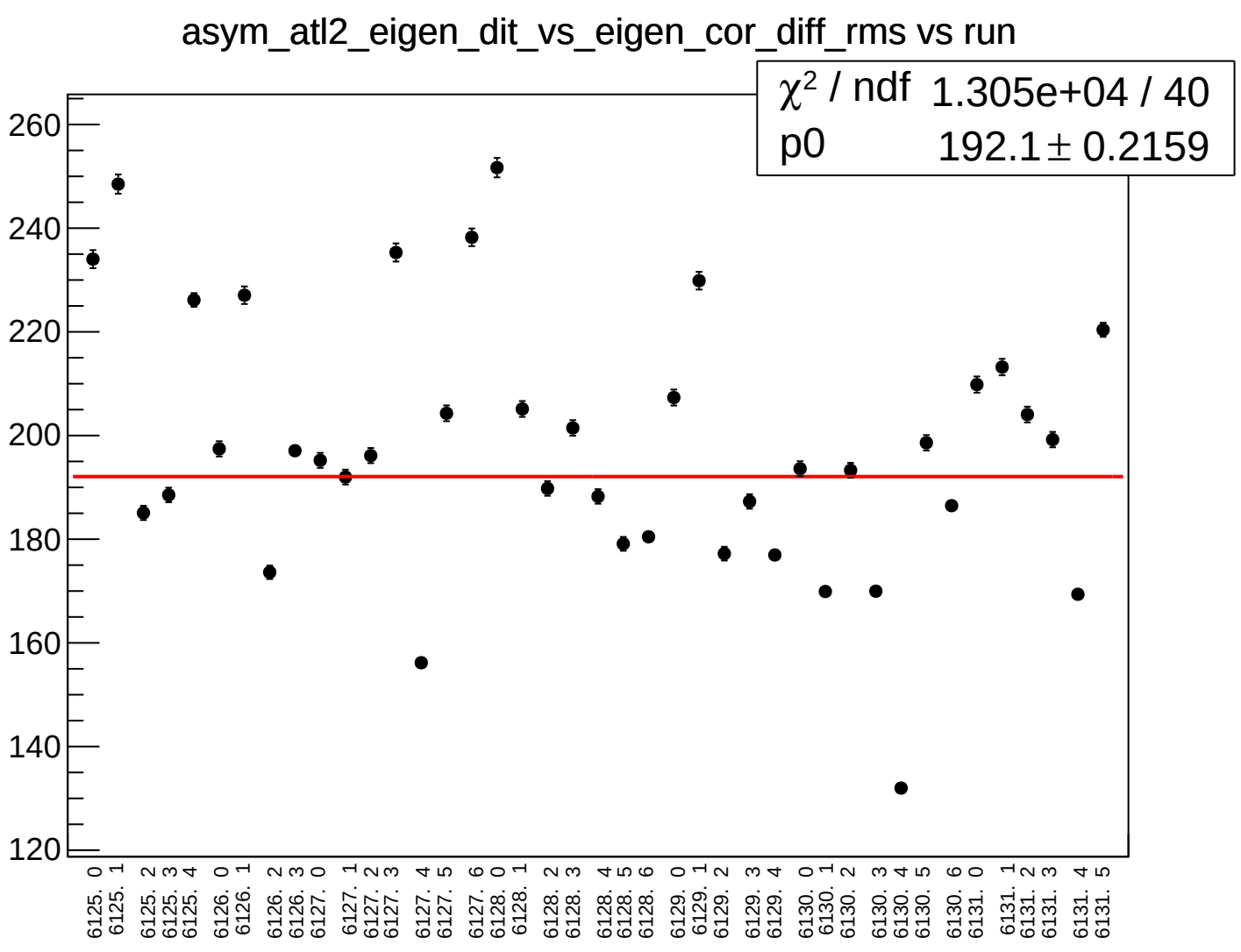

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2652 / 40
p0 0.01903 ± 2.125e−05
0.022
0.021
0.02
0.019
0.018
0.017
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

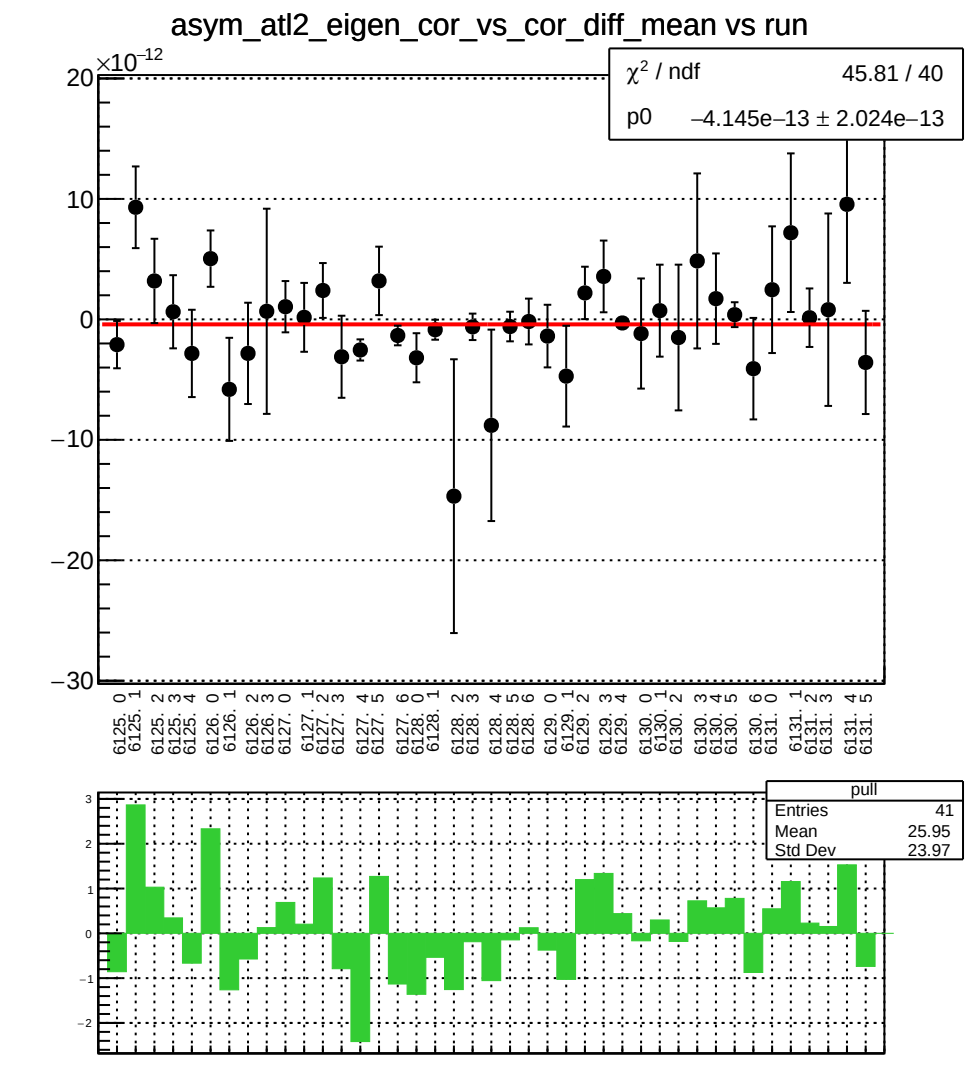

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.83 / 40
p0 −0.007117 ± 0.3054
pull
Entries 41
Mean 20.06
Std Dev 33.17
pull1D
Entries 41
Mean −0.01592
Std Dev 0.973

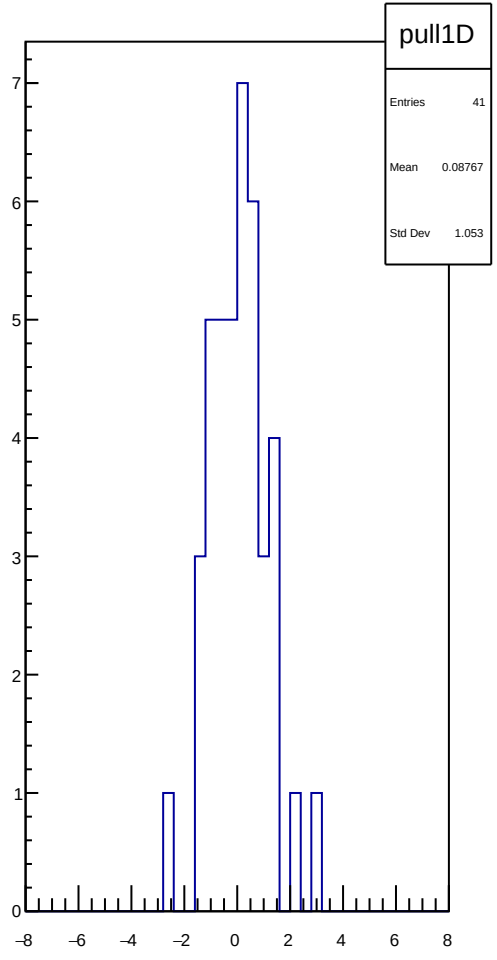

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.305e+04 / 40
p0 192.1 ± 0.2159
260
240
220
200
180
160
140
120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

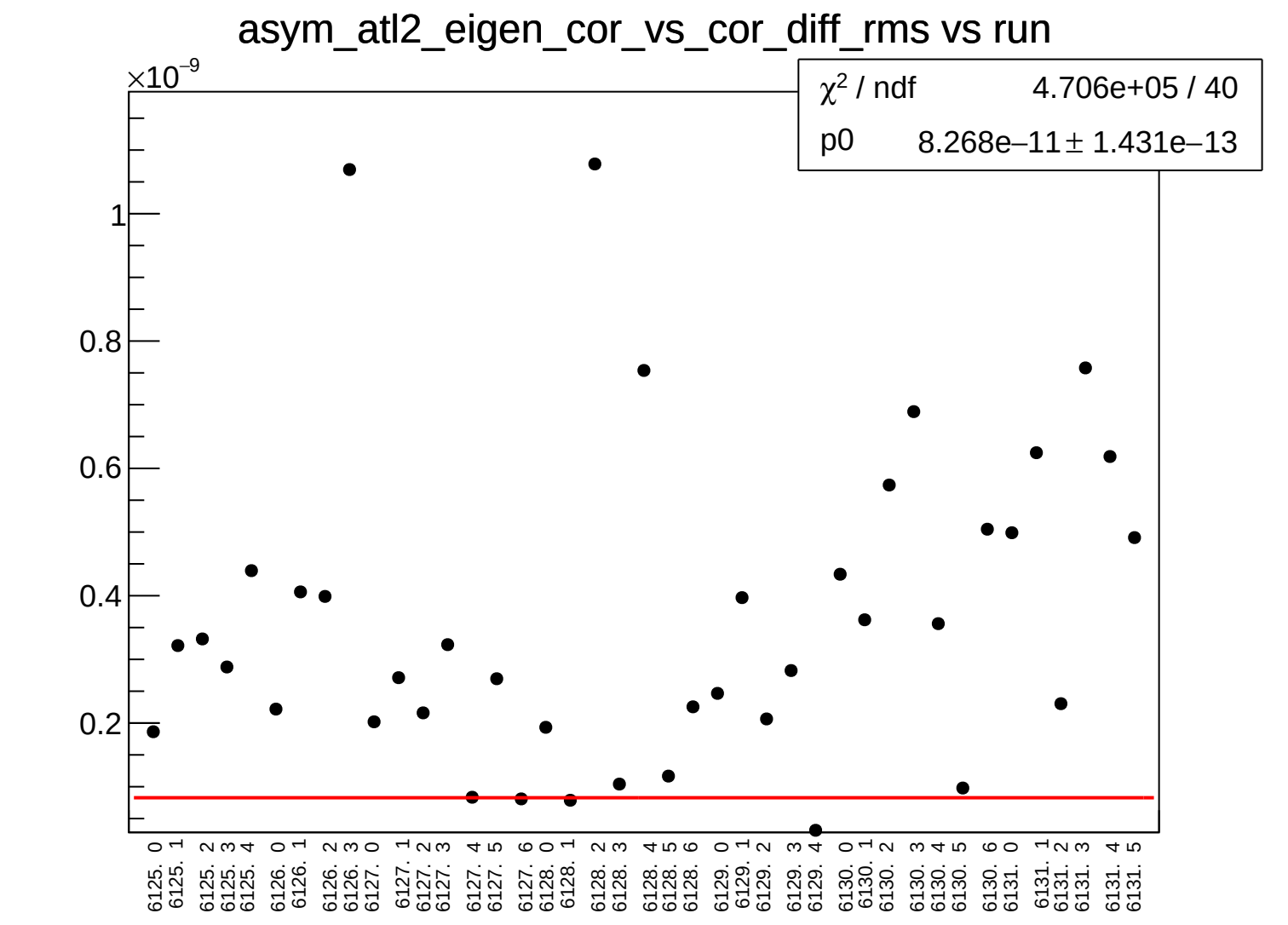

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.83 / 40
p0 −0.007117 ± 0.3054
pull
Entries 41
Mean 20.06
Std Dev 33.17

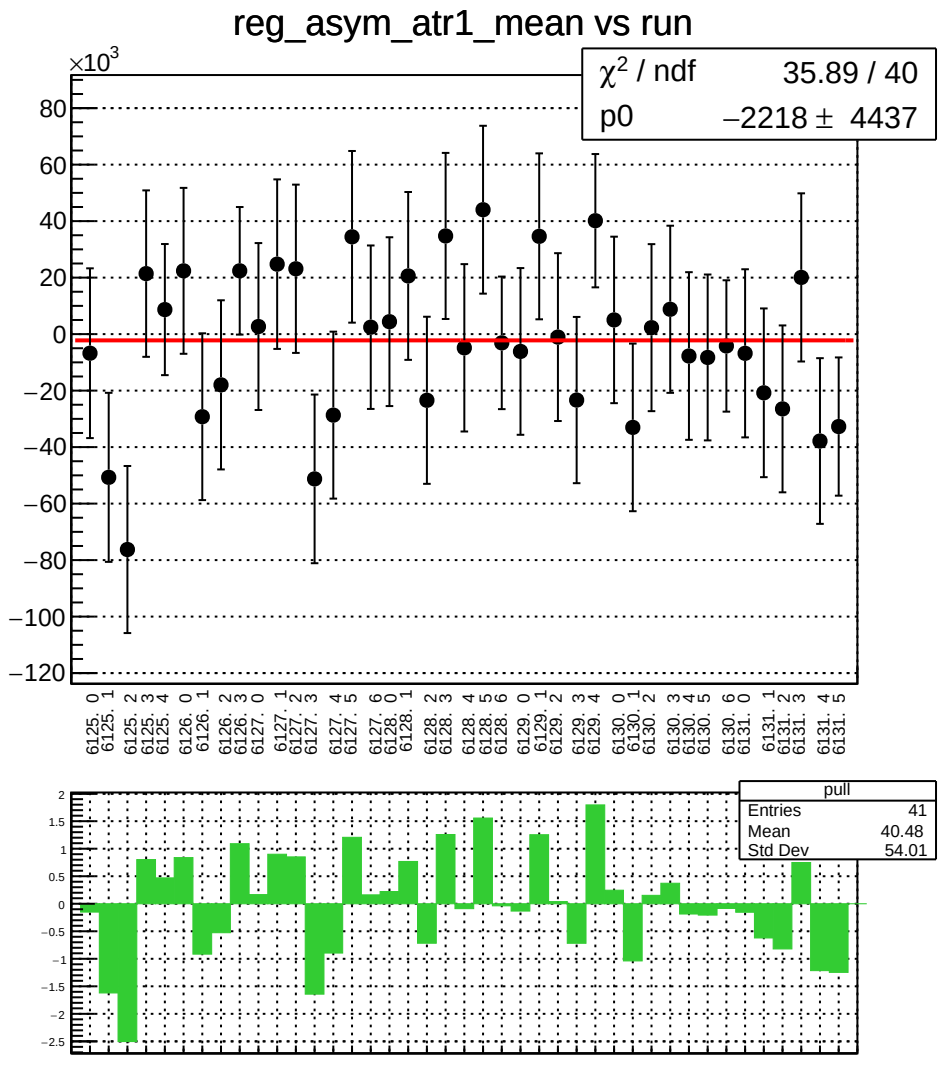

pull1D
Entries 41
Mean −0.01592
Std Dev 0.973

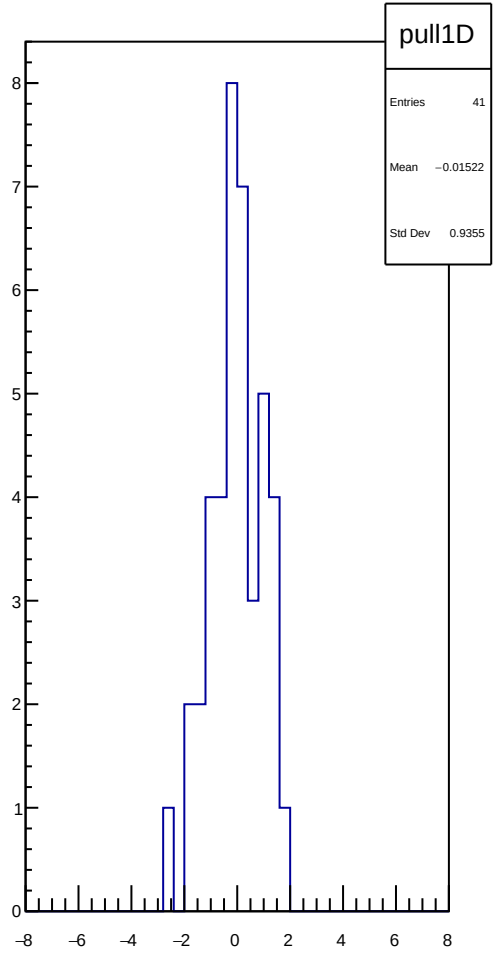

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.305e+04 / 40
p0 192.1 ± 0.2159
260
240
220
200
180
160
140
120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

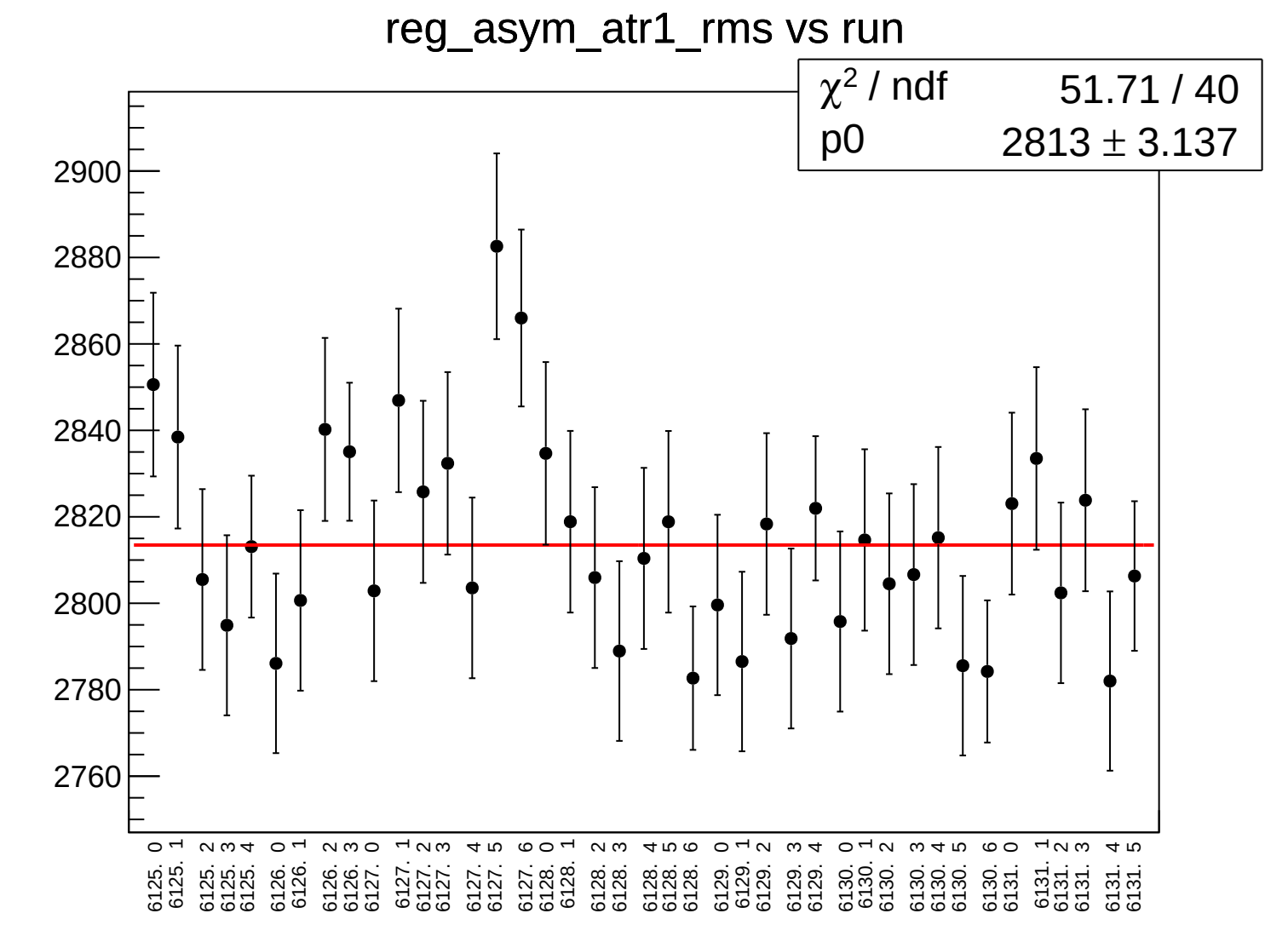

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 45.81 / 40
p0 −4.145e−13 ± 2.024e−13
pull
Entries 41
Mean 25.95
Std Dev 23.97

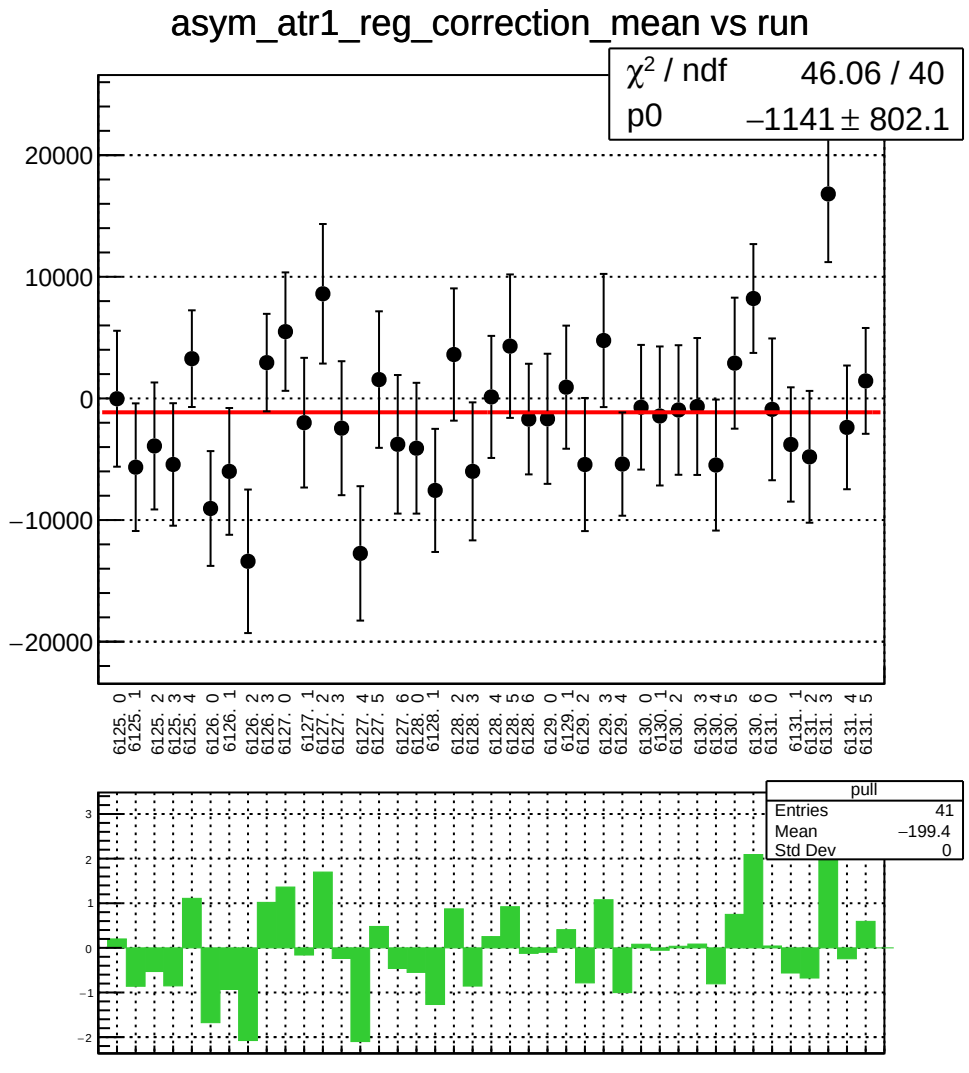

pull1D
Entries 41
Mean 0.08767
Std Dev 1.053

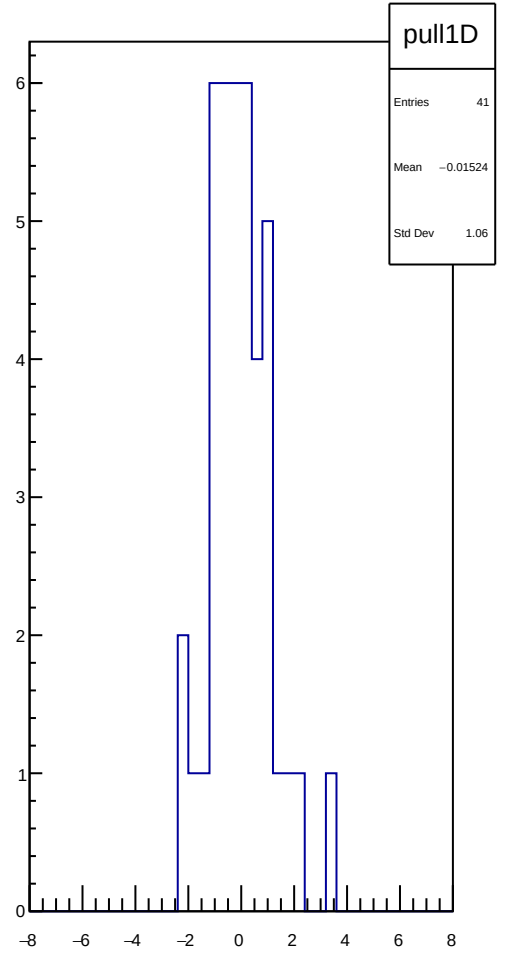

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.706e+05 / 40
p0 8.268e−11 ± 1.431e−13
1
0.8
0.6
0.4
0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

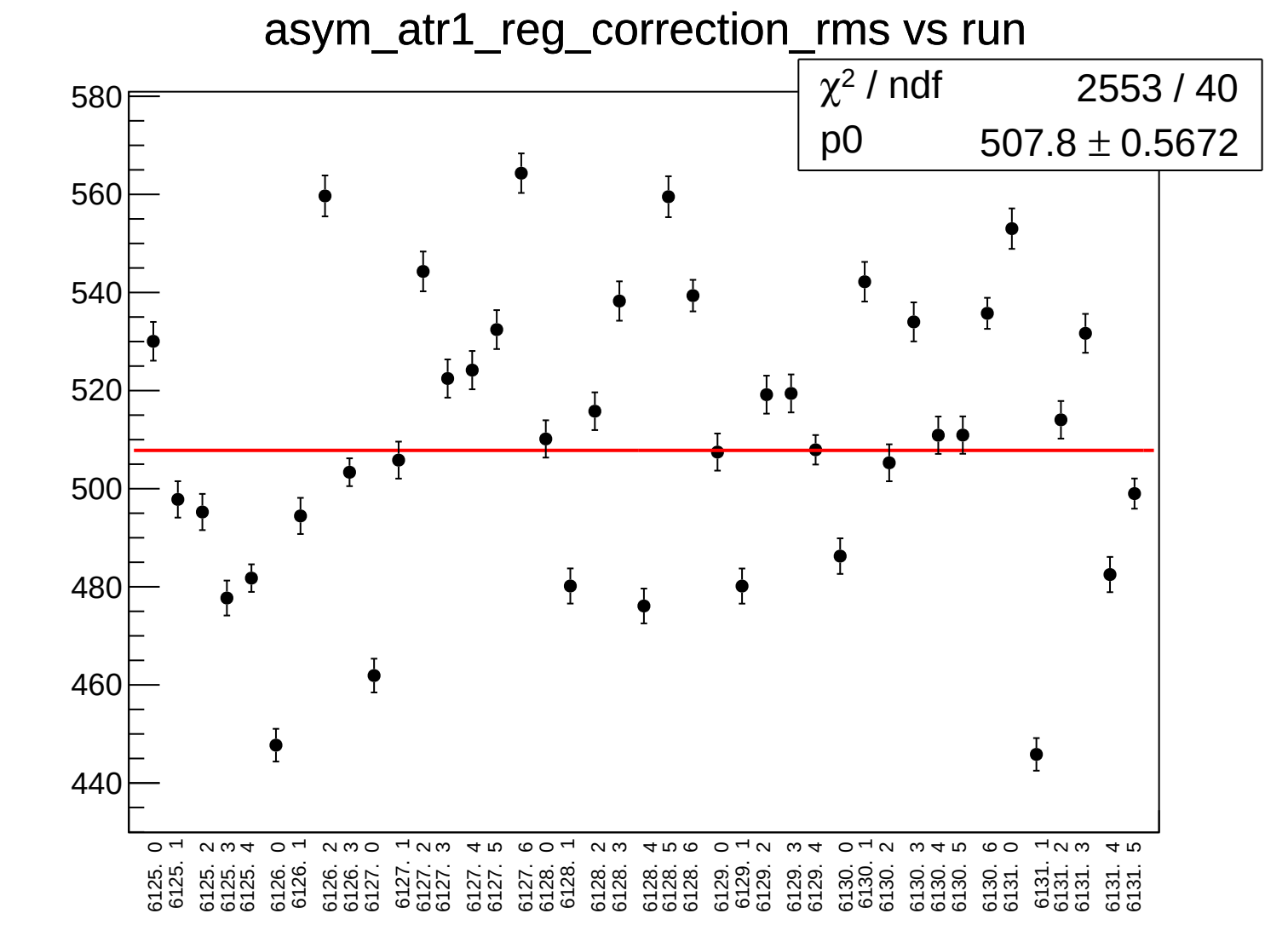

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 35.89 / 40
p0 −2218 ± 4437
pull
Entries 41
Mean 40.48
Std Dev 54.01

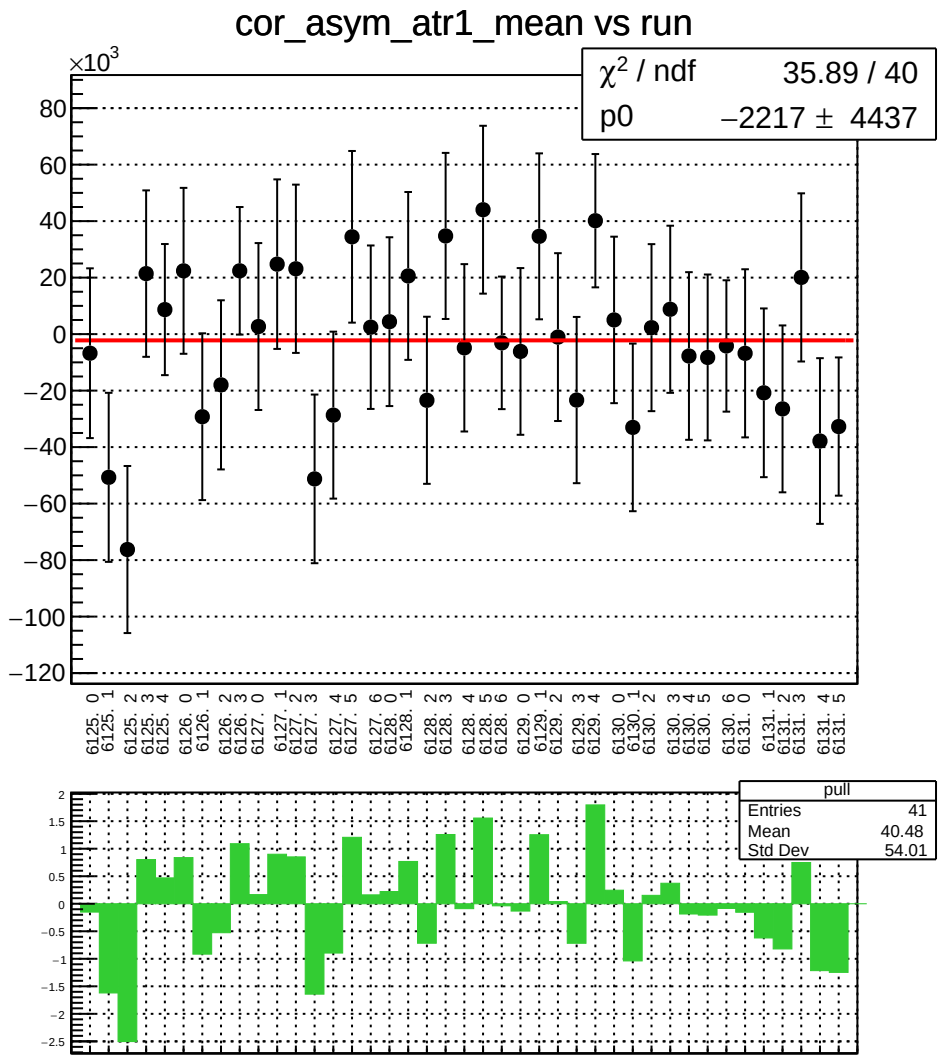

pull1D
Entries 41
Mean −0.01522
Std Dev 0.9355

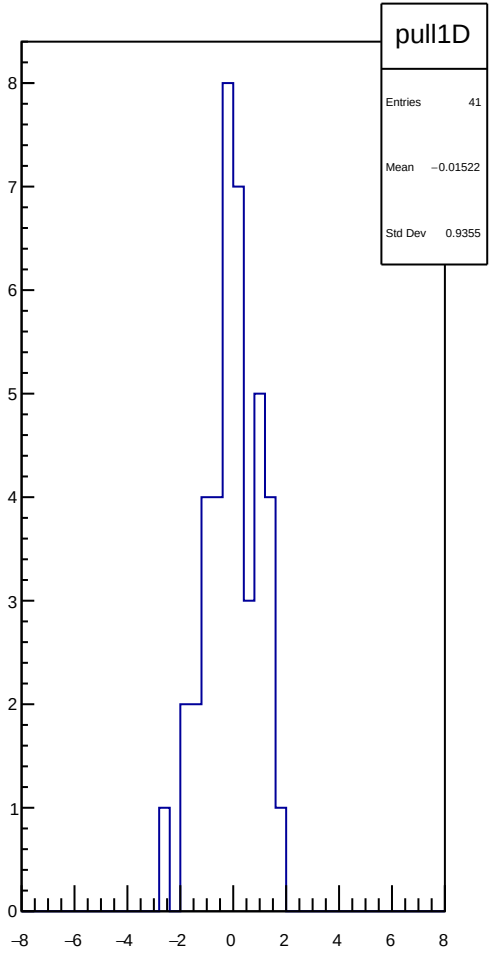

reg_asym_atr1_rms vs run
χ² / ndf 51.71 / 40
p0 2813 ± 3.137
2900
2880
2860
2840
2820
2800
2780
2760
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

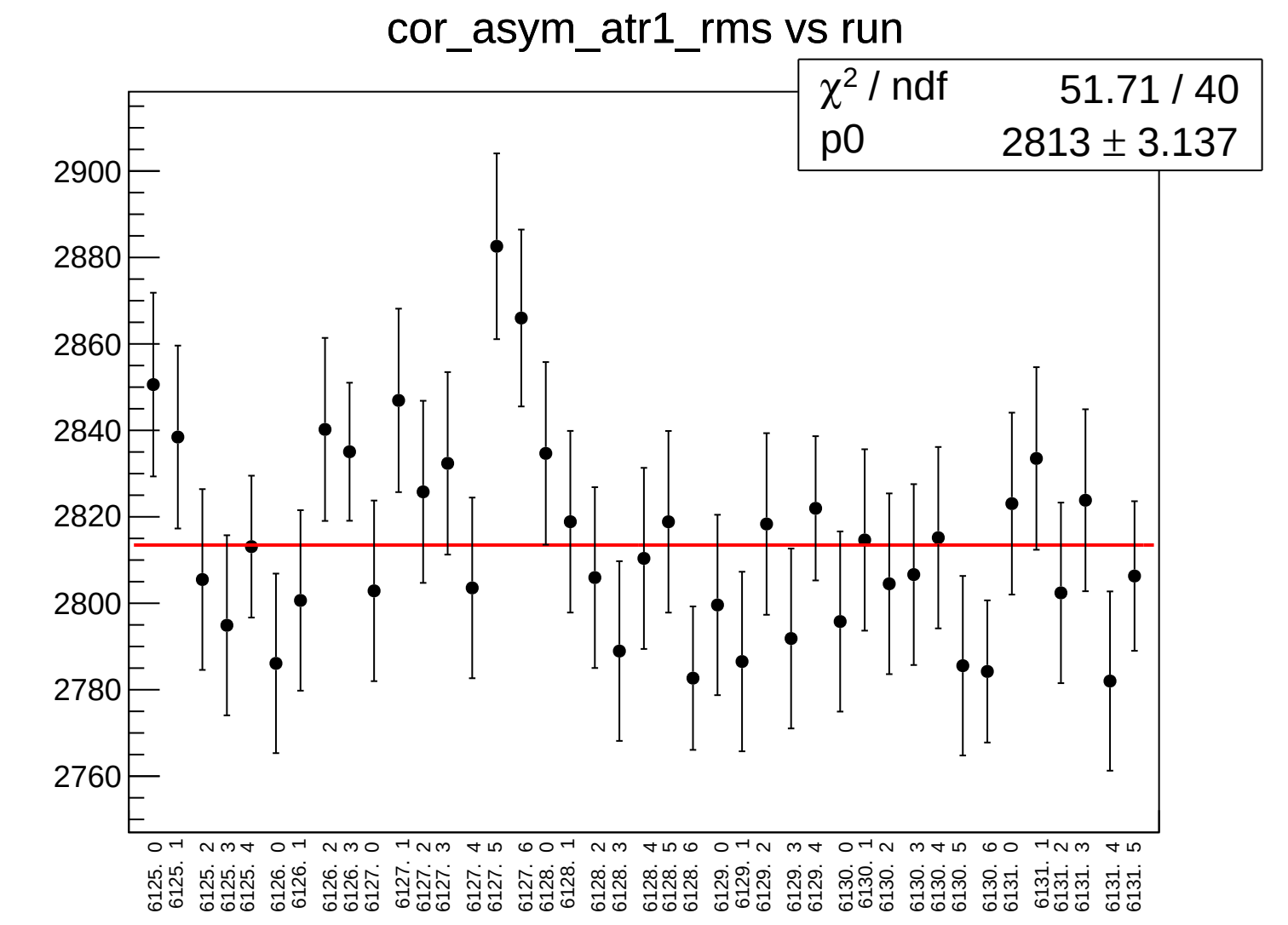

asym_atr1_reg_correction_mean vs run
χ² / ndf 46.06 / 40
p0 −1141 ± 802.1
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −199.4
Std Dev 0
3
2
1
0
−1
−2

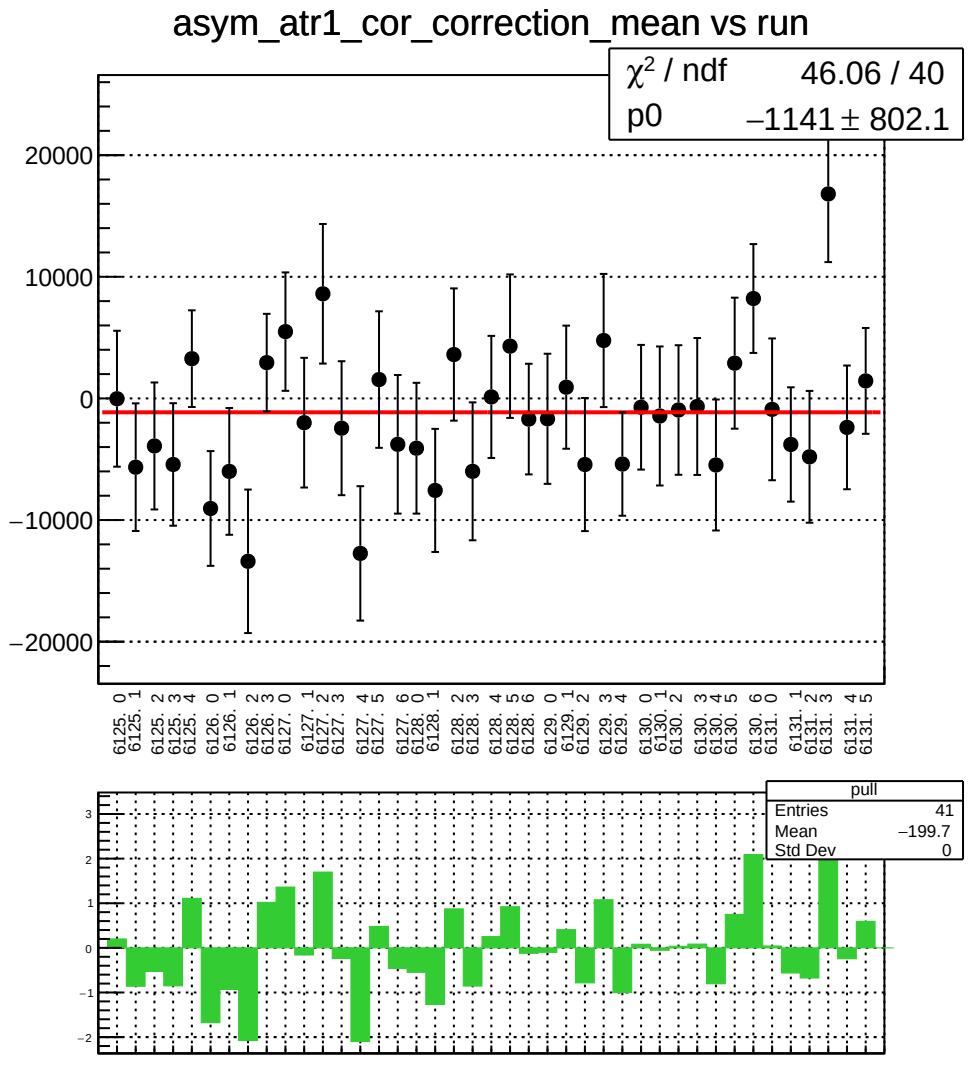

pull1D
Entries 41
Mean −0.01524
Std Dev 1.06
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

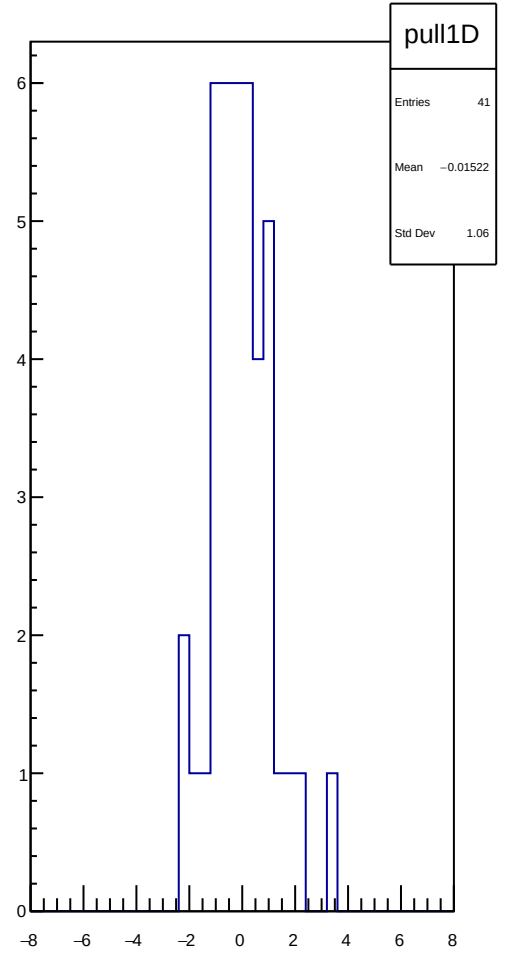

asym_atr1_reg_correction_rms vs run
χ² / ndf 2553 / 40
p0 507.8 ± 0.5672
580
560
540
520
500
480
460
440
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

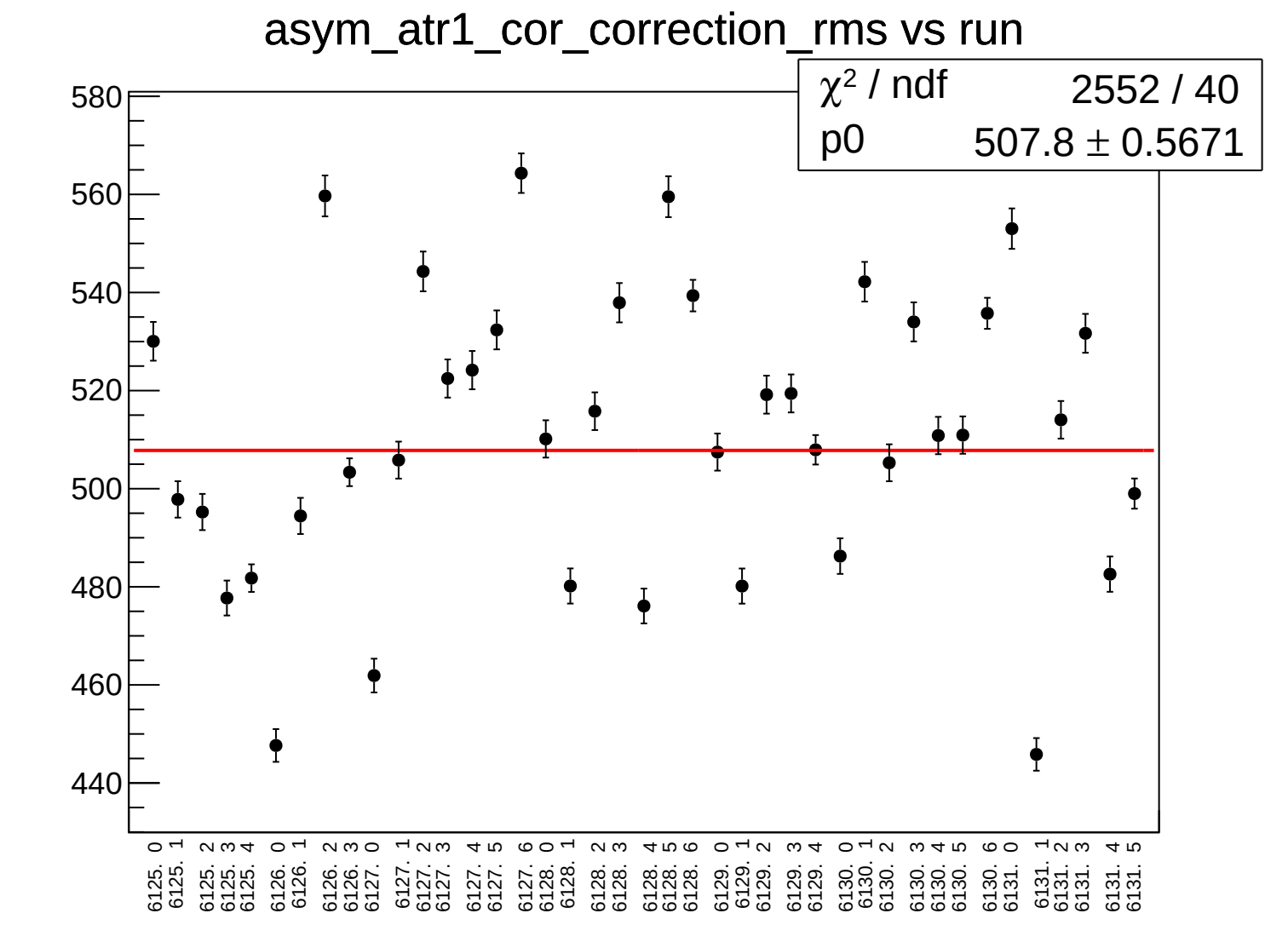

cor_asym_atr1_mean vs run
×10^3
χ² / ndf 35.89 / 40
p0 −2217 ± 4437
pull
Entries 41
Mean 40.48
Std Dev 54.01

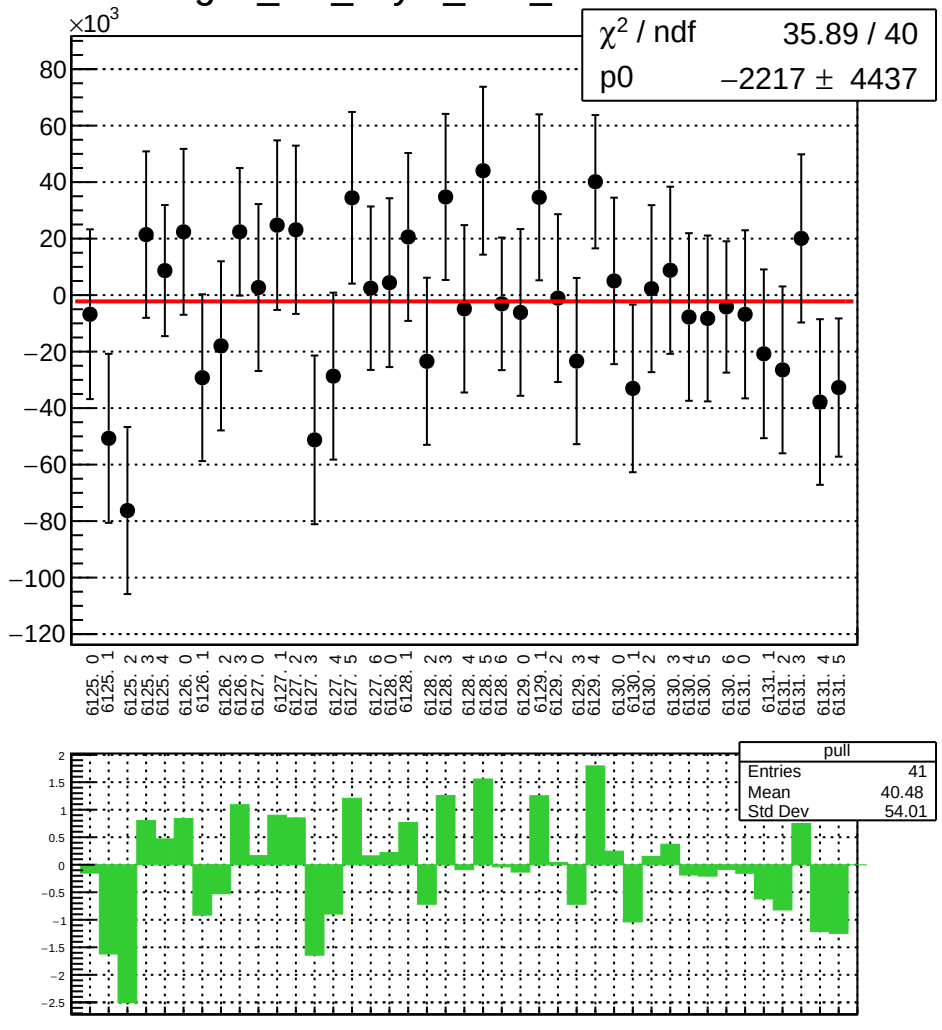

pull1D
Entries 41
Mean −0.01522
Std Dev 0.9355

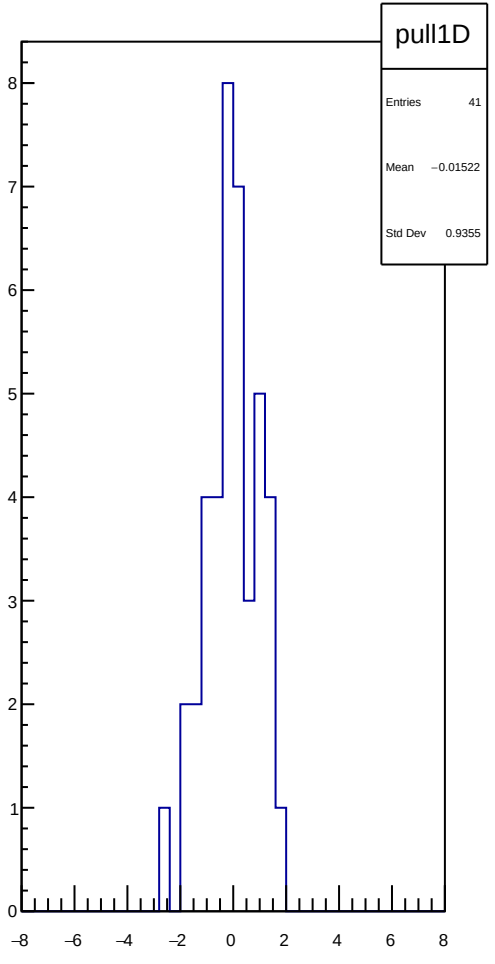

cor_asym_atr1_rms vs run
χ² / ndf 51.71 / 40
p0 2813 ± 3.137
2900
2880
2860
2840
2820
2800
2780
2760
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

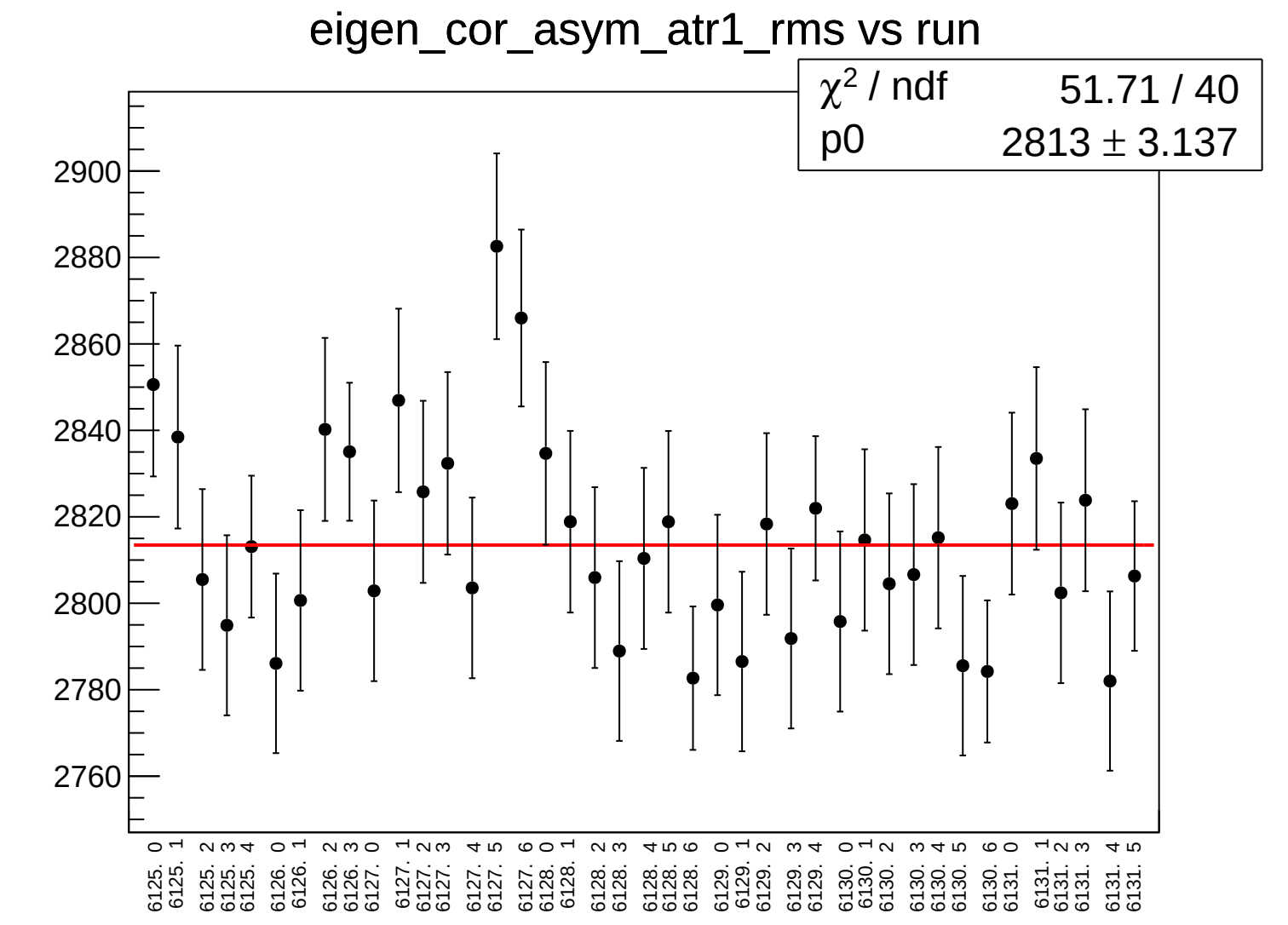

asym_atr1_cor_correction_mean vs run
χ² / ndf 46.06 / 40
p0 −1141 ± 802.1
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −199.7
Std Dev 0
3
2
1
0
−1
−2

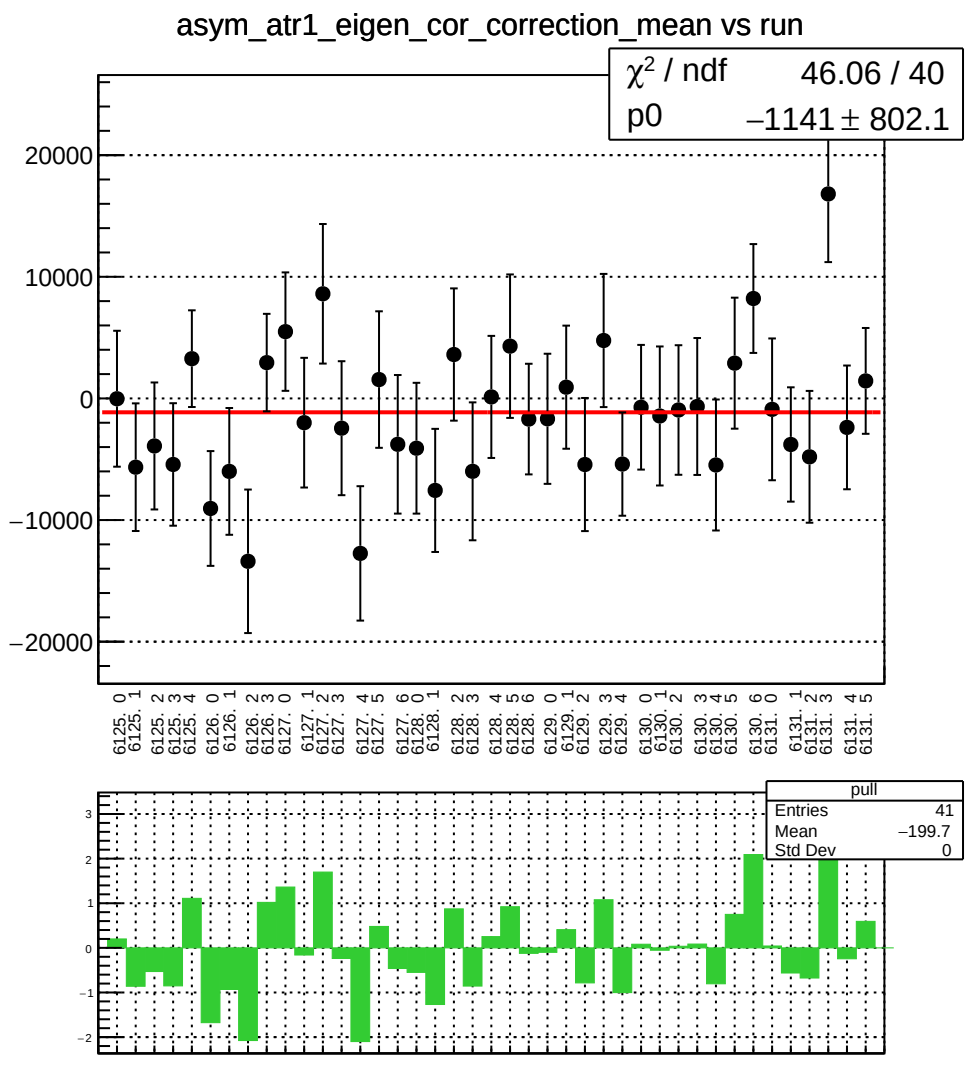

pull1D
Entries 41
Mean −0.01522
Std Dev 1.06
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

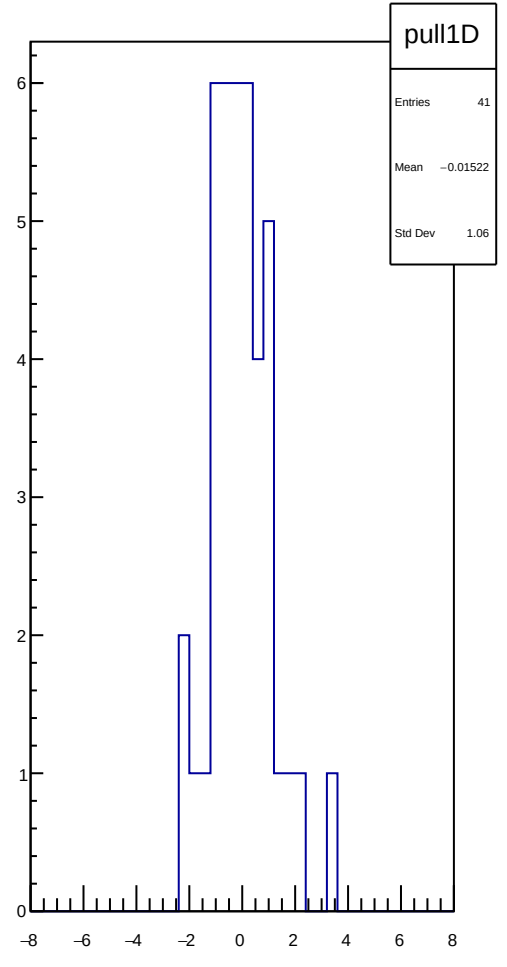

asym_atr1_cor_correction_rms vs run
χ² / ndf 2552 / 40
p0 507.8 ± 0.5671
580
560
540
520
500
480
460
440
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

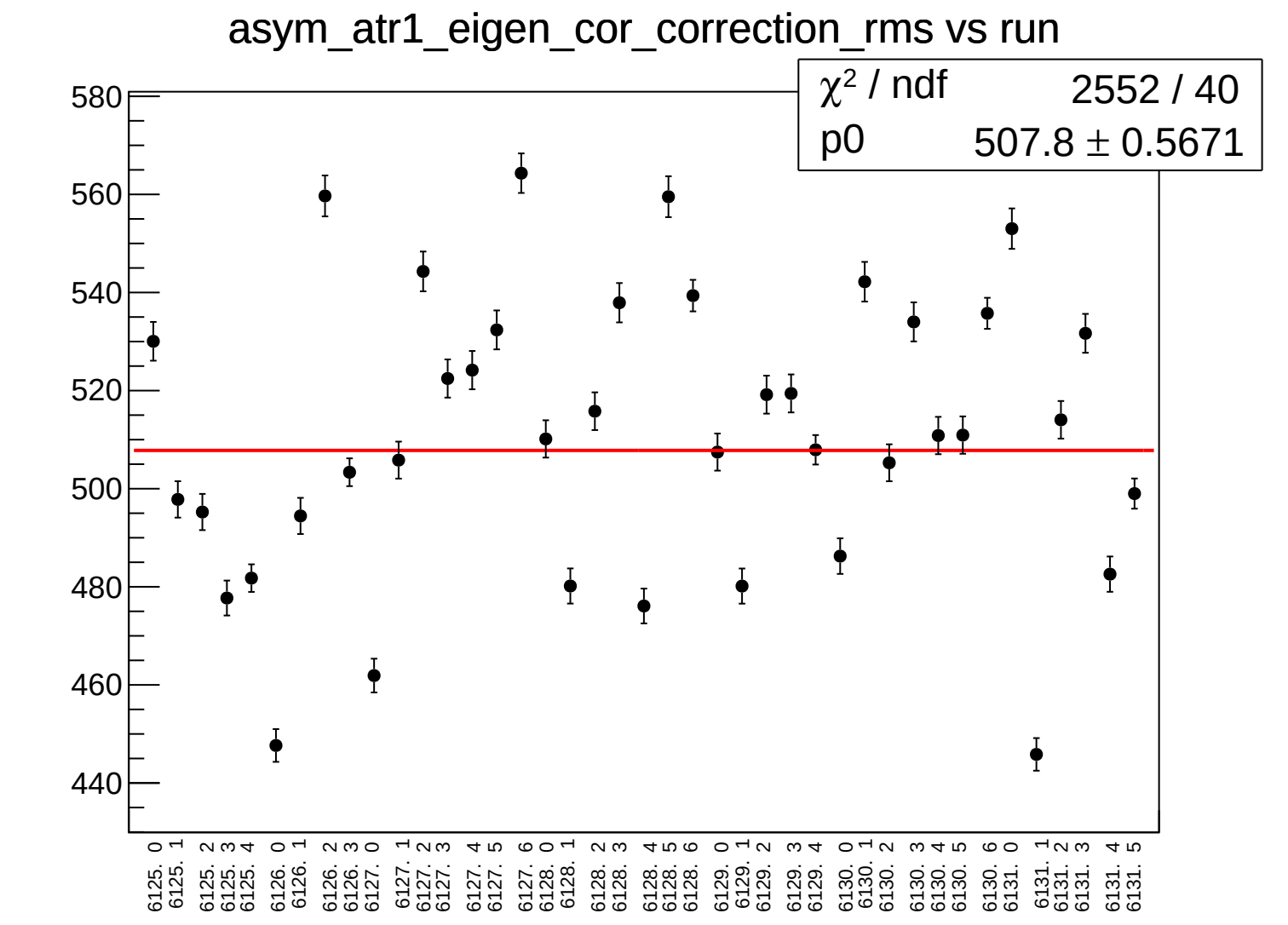

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 35.89 / 40
p0 −2217 ± 4437
pull
Entries 41
Mean 40.48
Std Dev 54.01

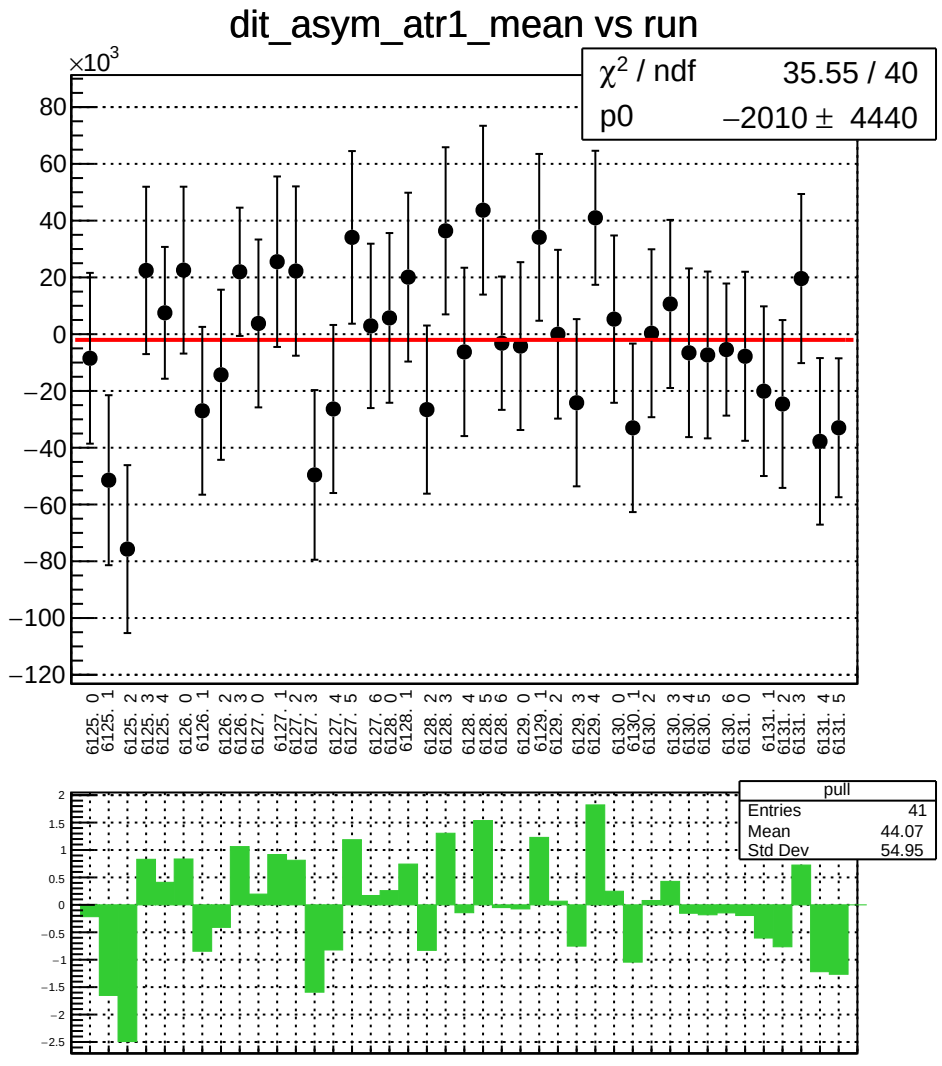

pull1D
Entries 41
Mean −0.01522
Std Dev 0.9355

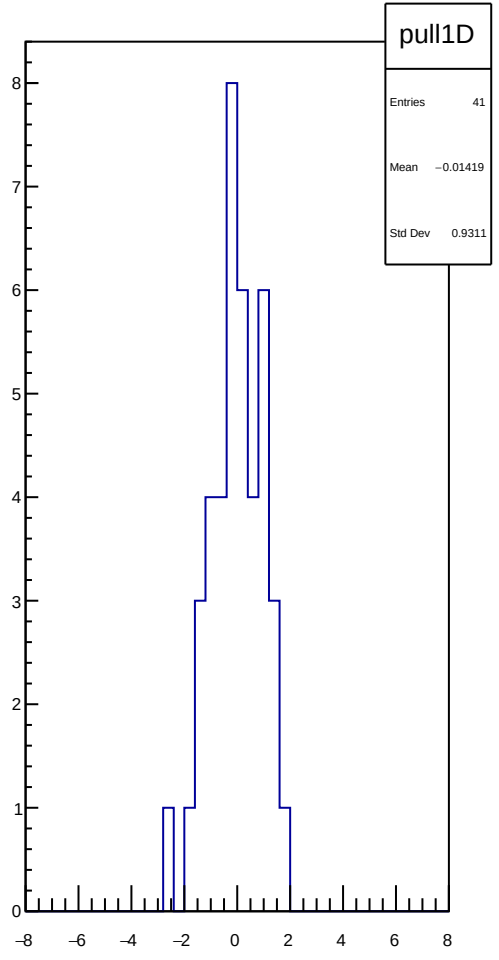

eigen_cor_asym_atr1_rms vs run
χ² / ndf 51.71 / 40
p0 2813 ± 3.137
2900
2880
2860
2840
2820
2800
2780
2760
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

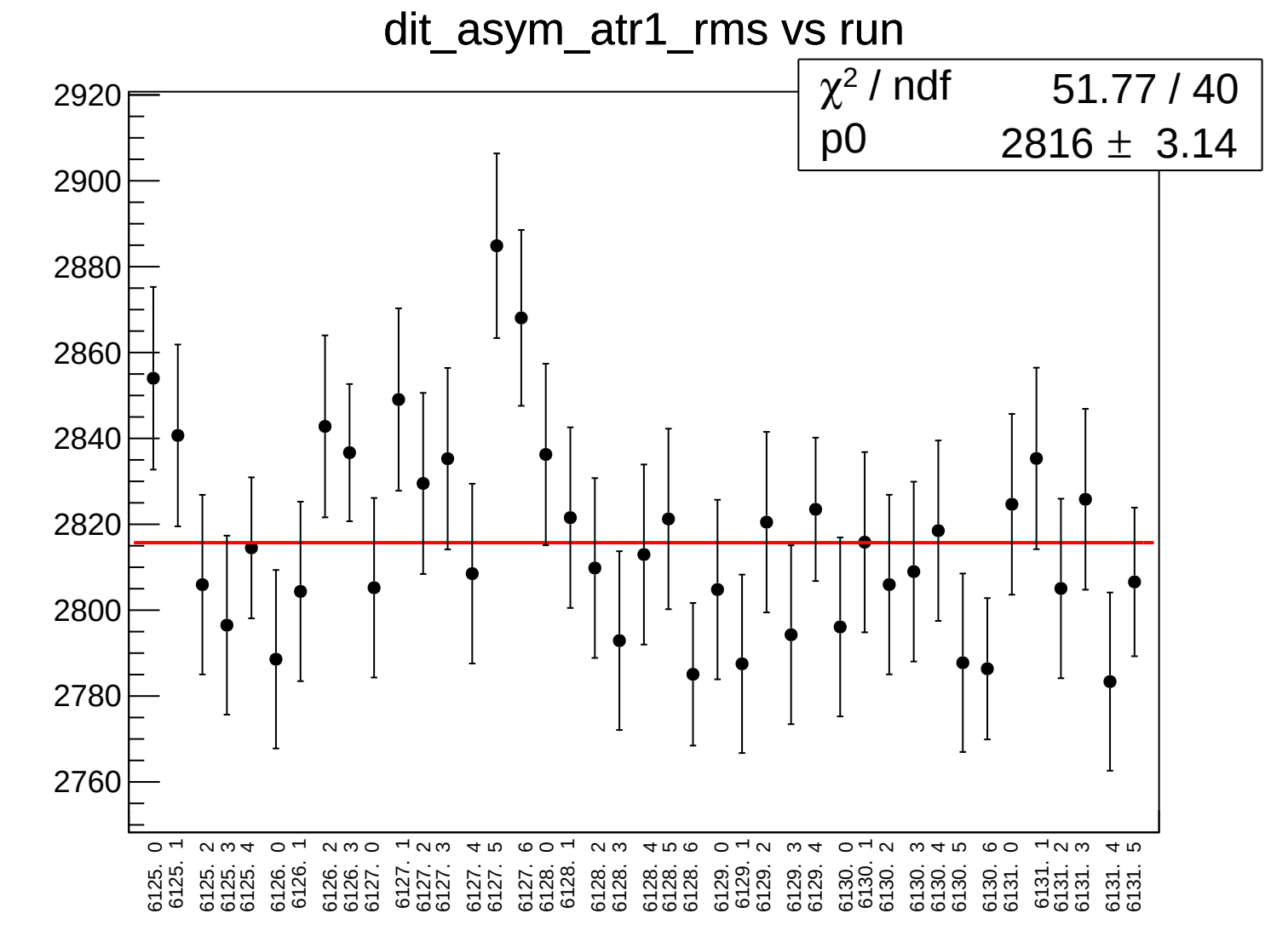

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 46.06 / 40
p0 −1141 ± 802.1
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −199.7
Std Dev 0
3
2
1
0
−1
−2

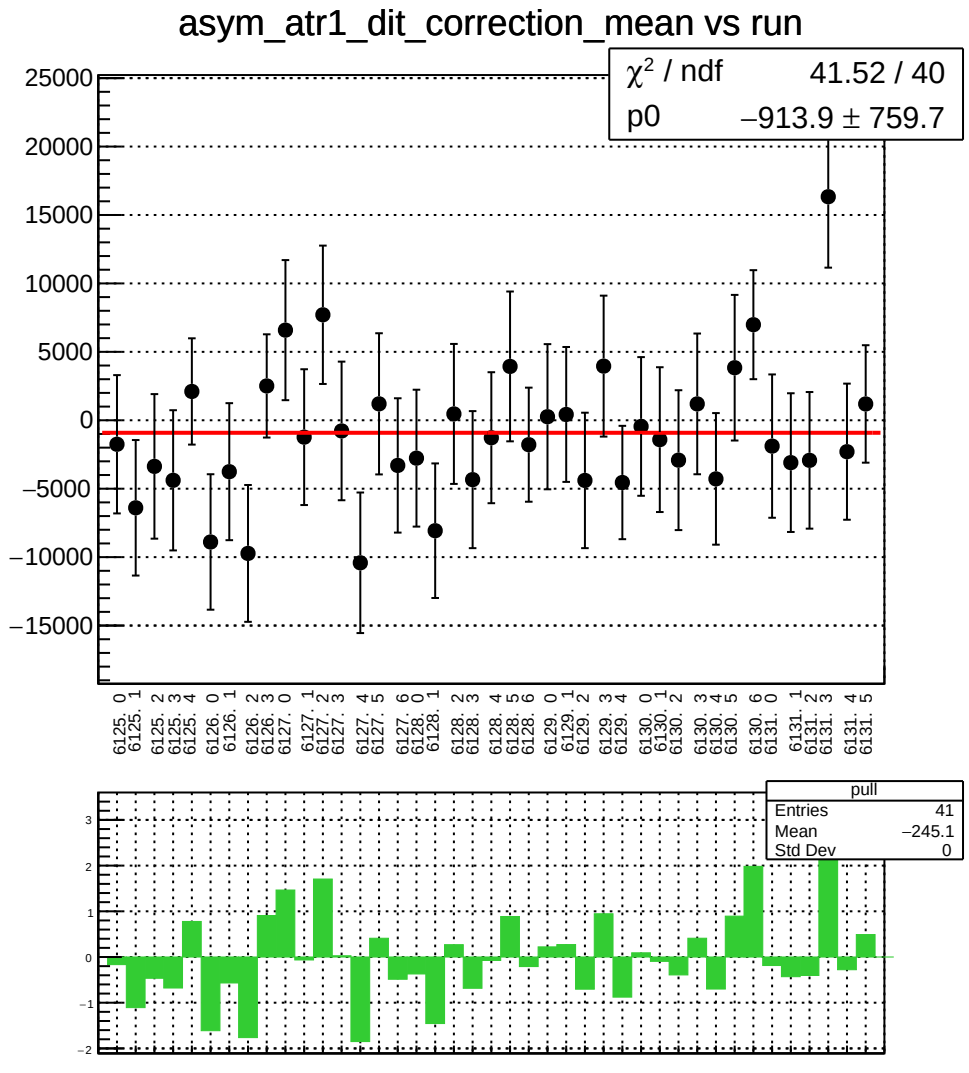

pull1D
Entries 41
Mean −0.01522
Std Dev 1.06
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

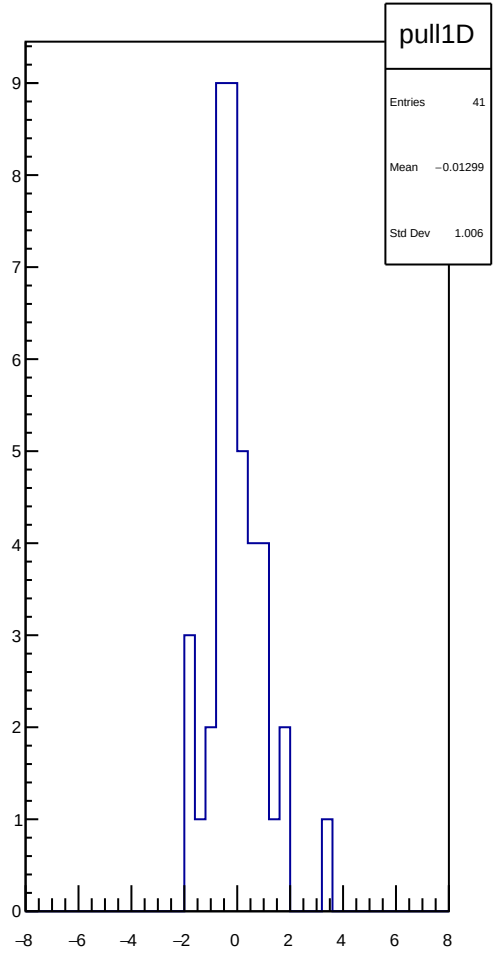

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 2552 / 40
p0 507.8 ± 0.5671
580
560
540
520
500
480
460
440
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

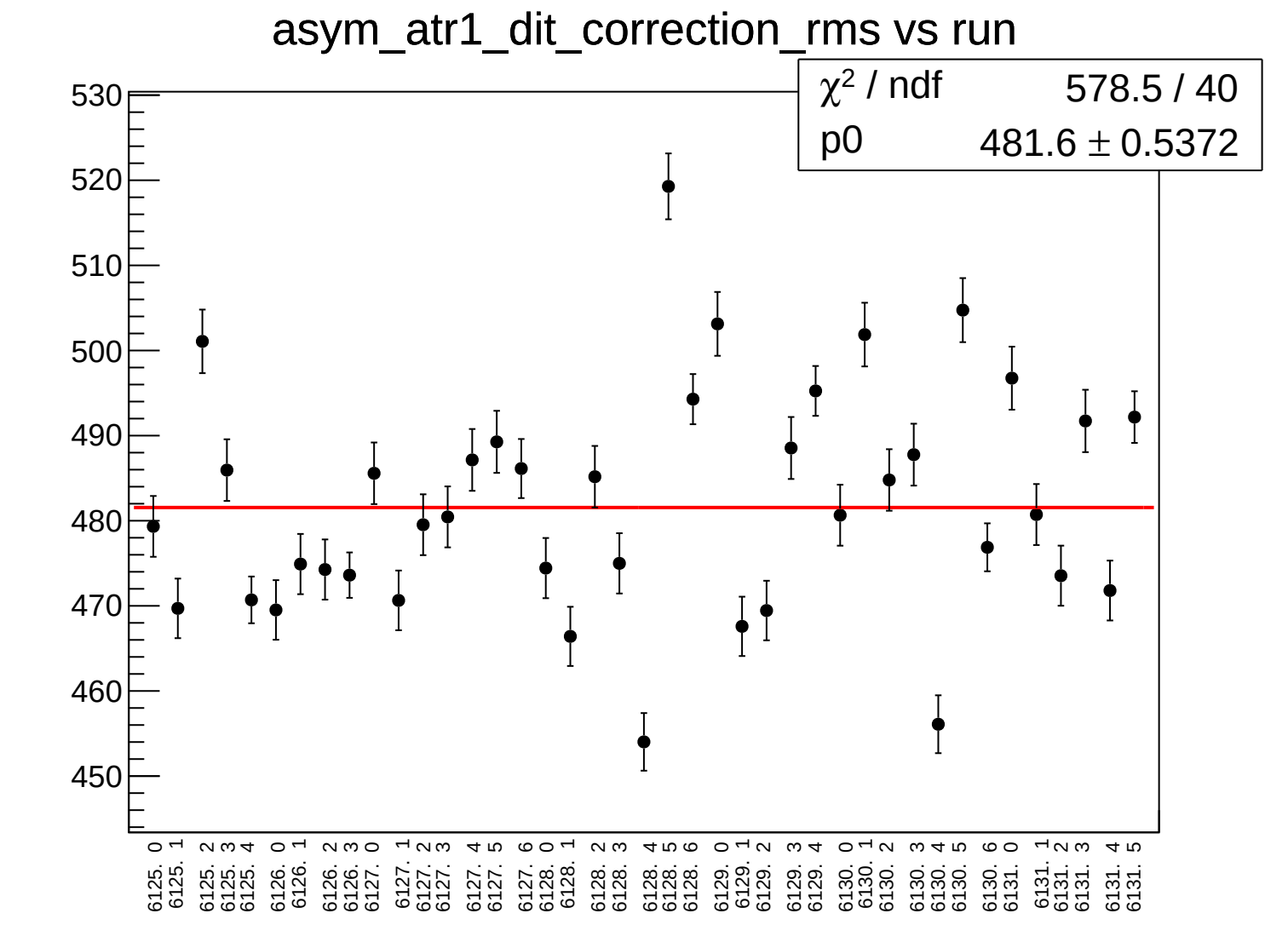

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 35.55 / 40
p0 −2010 ± 4440
pull
Entries 41
Mean 44.07
Std Dev 54.95

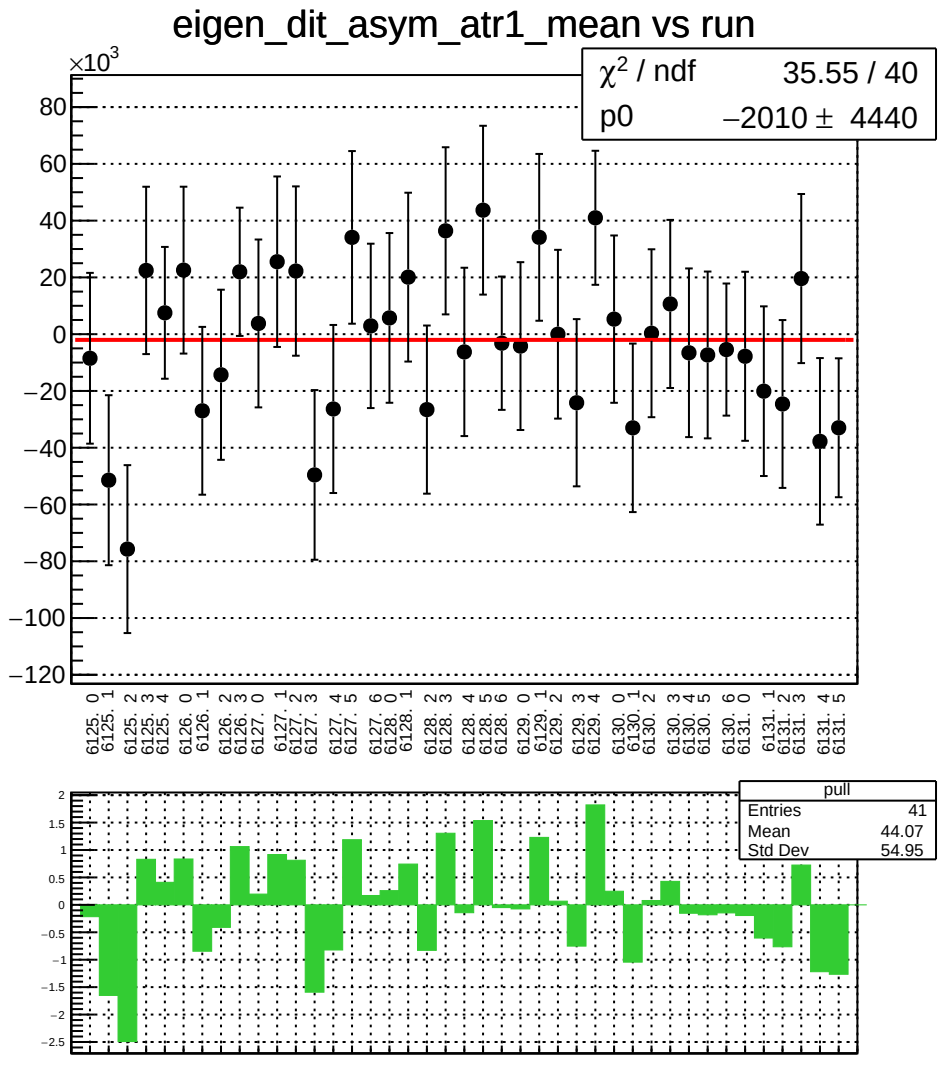

pull1D
Entries 41
Mean −0.01419
Std Dev 0.9311

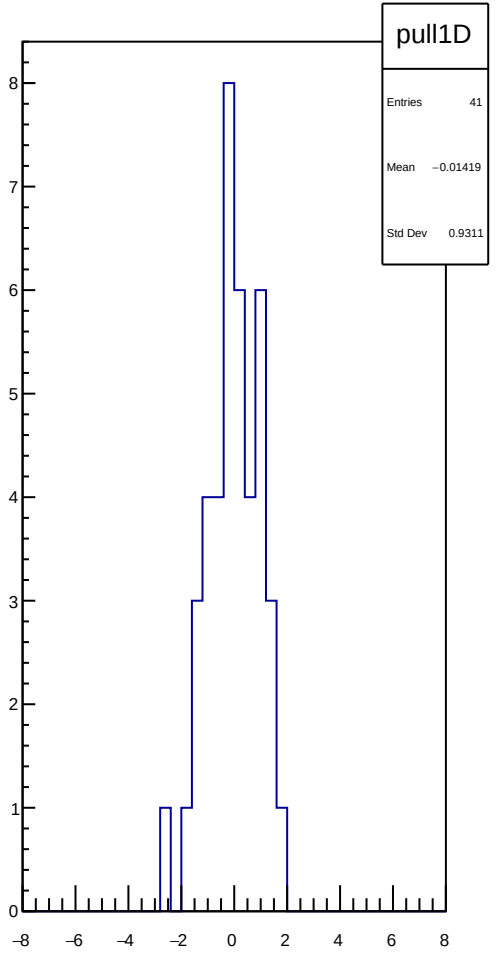

dit_asym_atr1_rms vs run
χ² / ndf 51.77 / 40
p0 2816 ± 3.14
2920
2900
2880
2860
2840
2820
2800
2780
2760
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

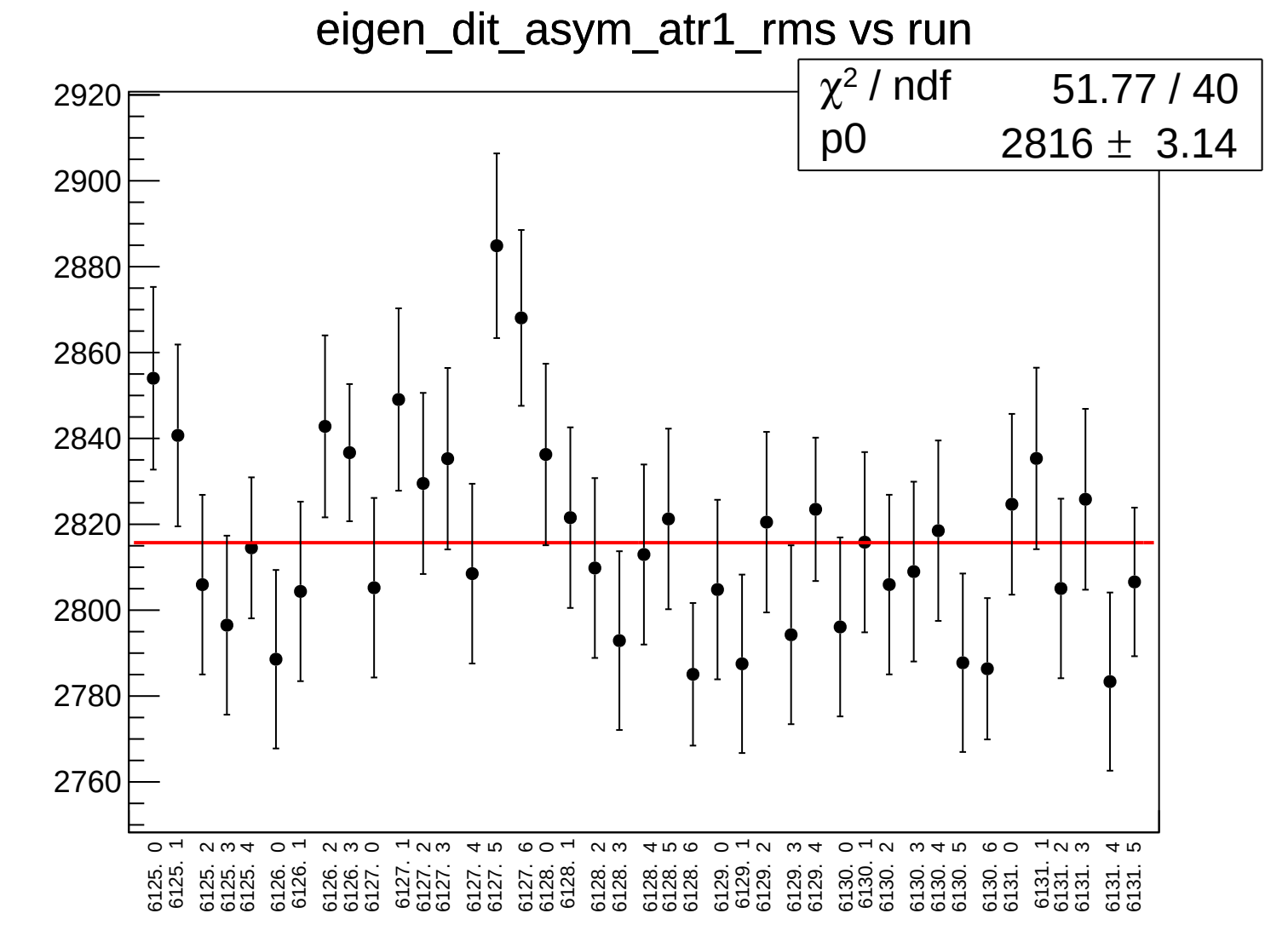

asym_atr1_dit_correction_mean vs run
χ² / ndf 41.52 / 40
p0 −913.9 ± 759.7
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −245.1
Std Dev 0
3
2
1
0
−1
−2

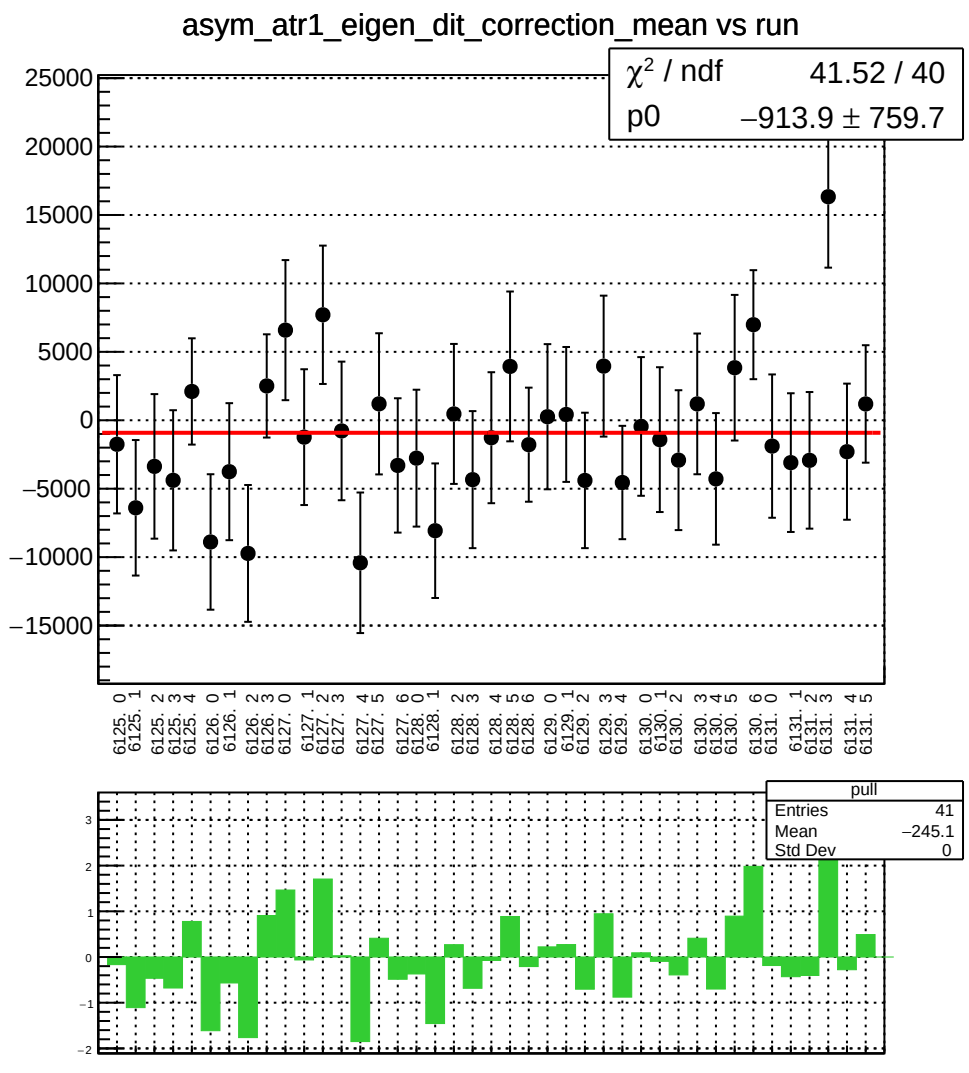

pull1D
Entries 41
Mean −0.01299
Std Dev 1.006
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

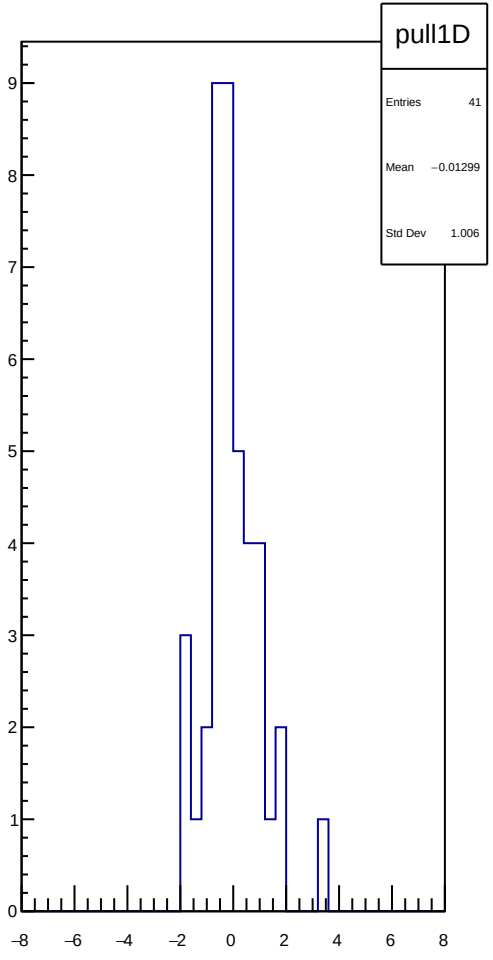

asym_atr1_dit_correction_rms vs run
χ² / ndf 578.5 / 40
p0 481.6 ± 0.5372
530
520
510
500
490
480
470
460
450
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

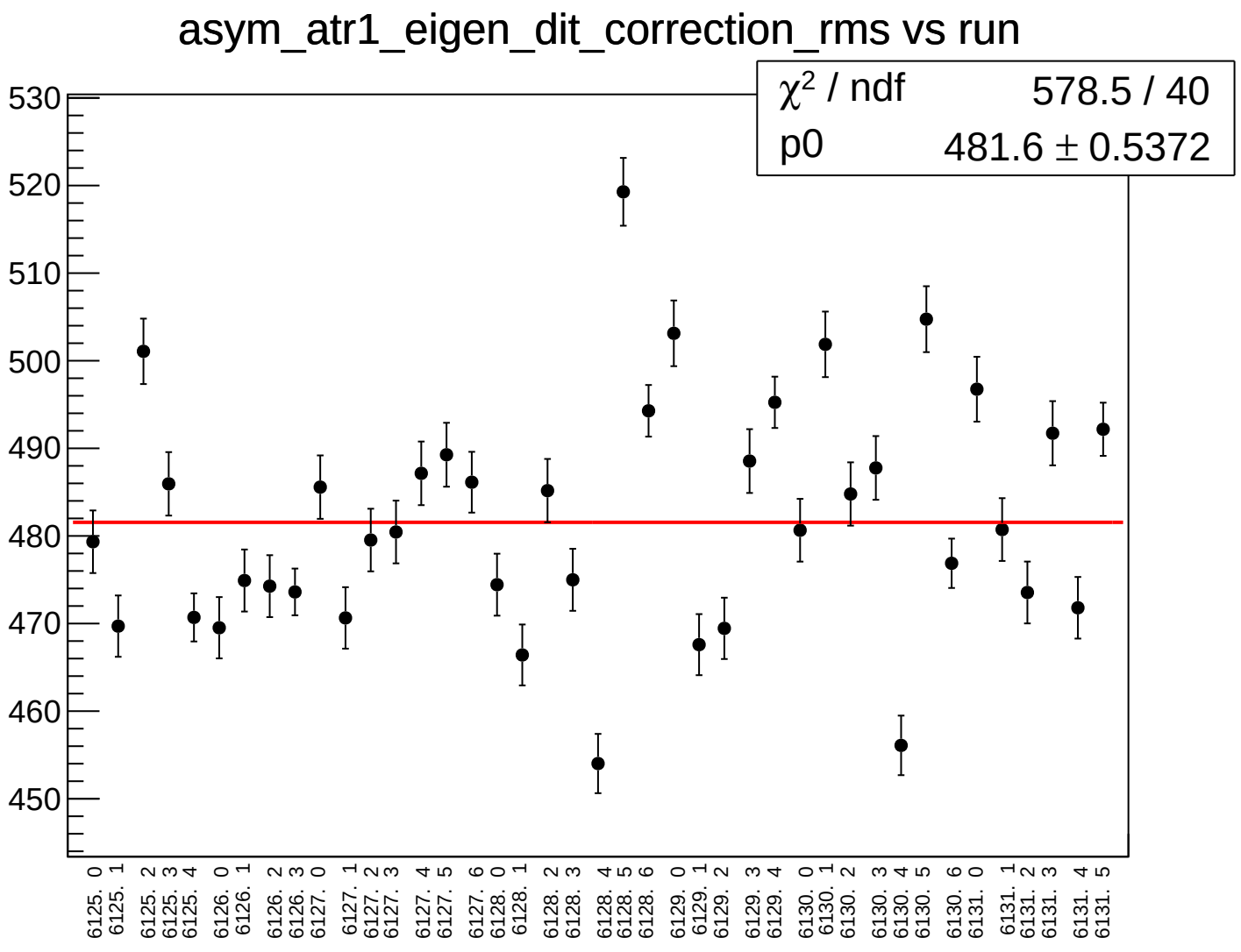

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 35.55 / 40
p0 −2010 ± 4440
pull
Entries 41
Mean 44.07
Std Dev 54.95

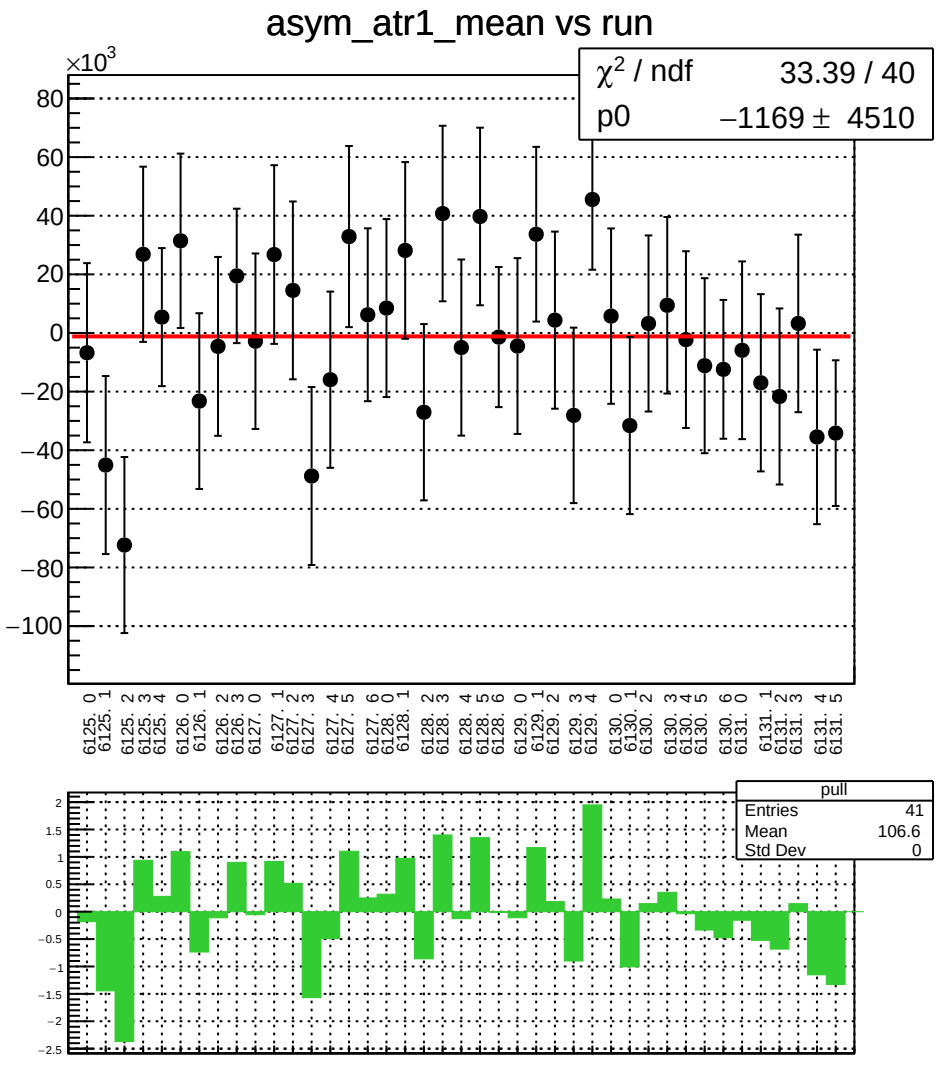

pull1D
Entries 41
Mean −0.01419
Std Dev 0.9311


eigen_dit_asym_atr1_rms vs run
χ² / ndf 51.77 / 40
p0 2816 ± 3.14
2920
2900
2880
2860
2840
2820
2800
2780
2760
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 41.52 / 40
p0 −913.9 ± 759.7
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −245.1
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.01299
Std Dev 1.006
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 578.5 / 40
p0 481.6 ± 0.5372
530
520
510
500
490
480
470
460
450
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atr1_mean vs run
×10^3
χ² / ndf 33.39 / 40
p0 −1169 ± 4510
pull
Entries 41
Mean 106.6
Std Dev 0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
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6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
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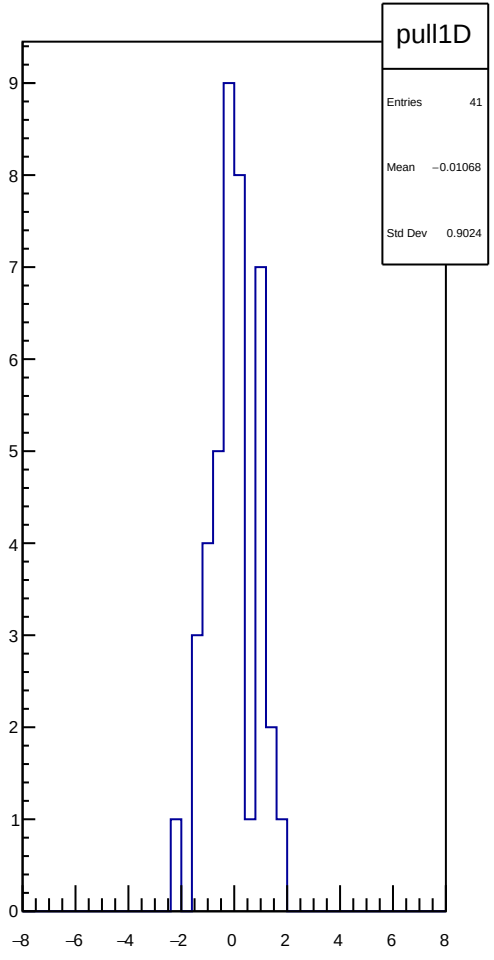
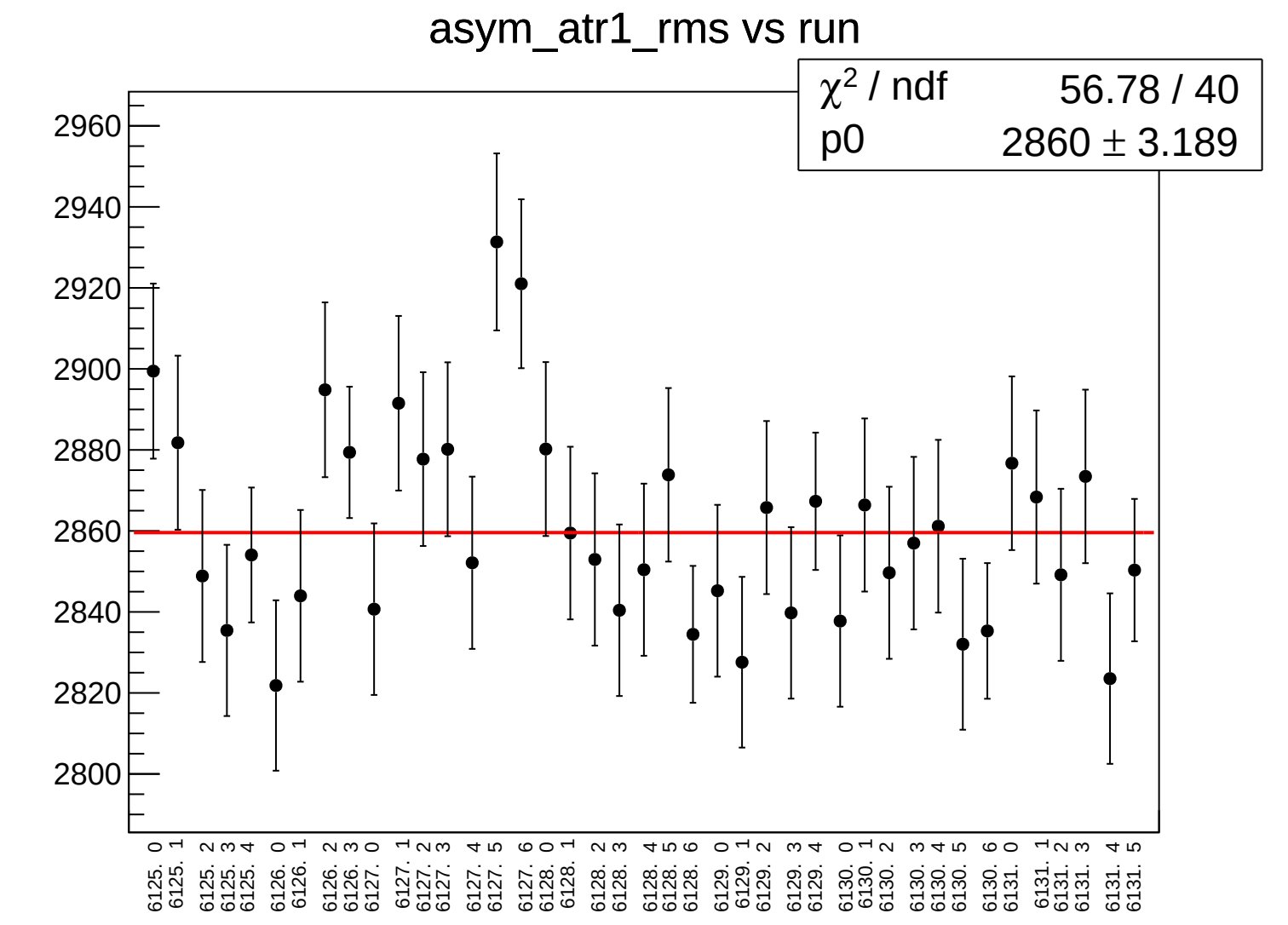
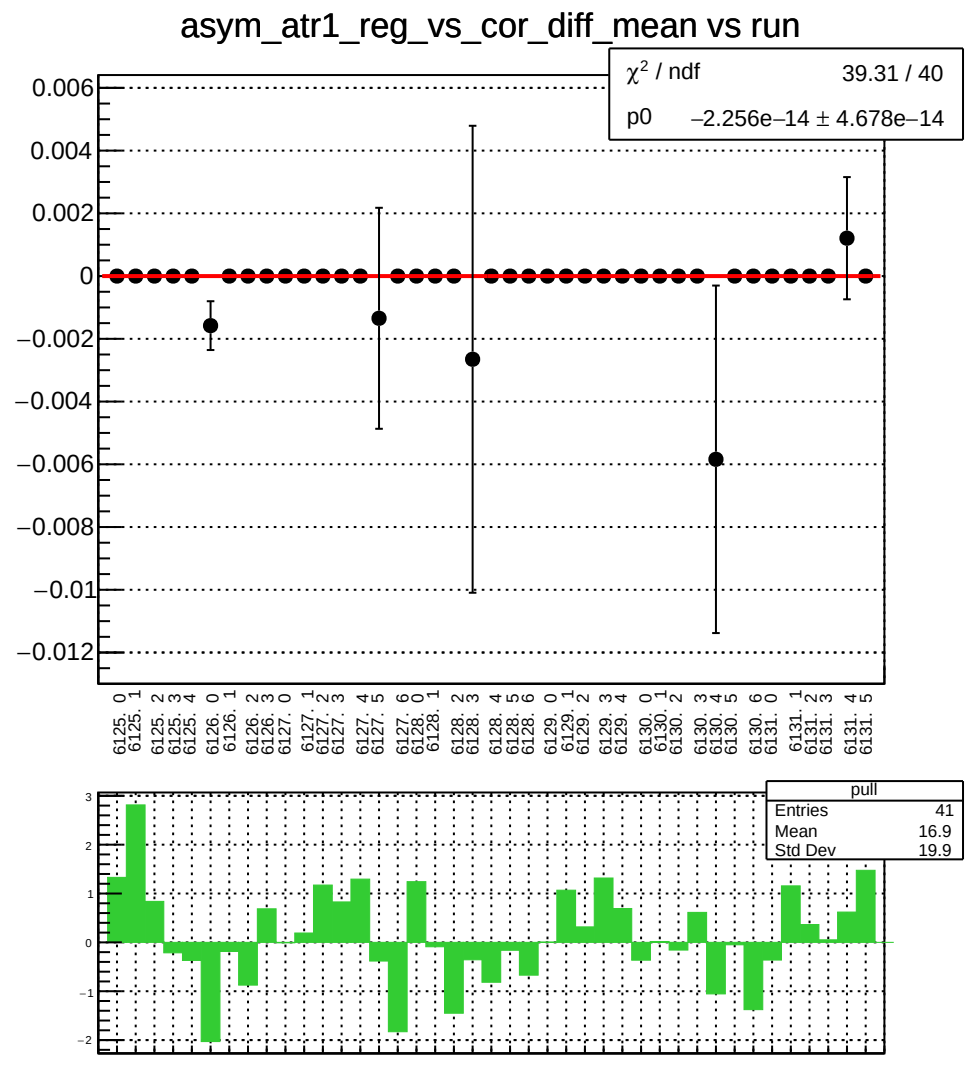
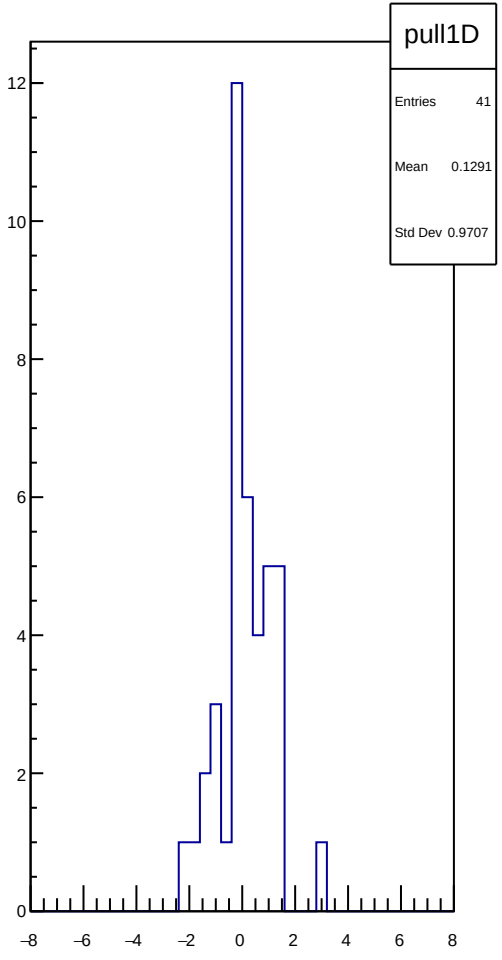
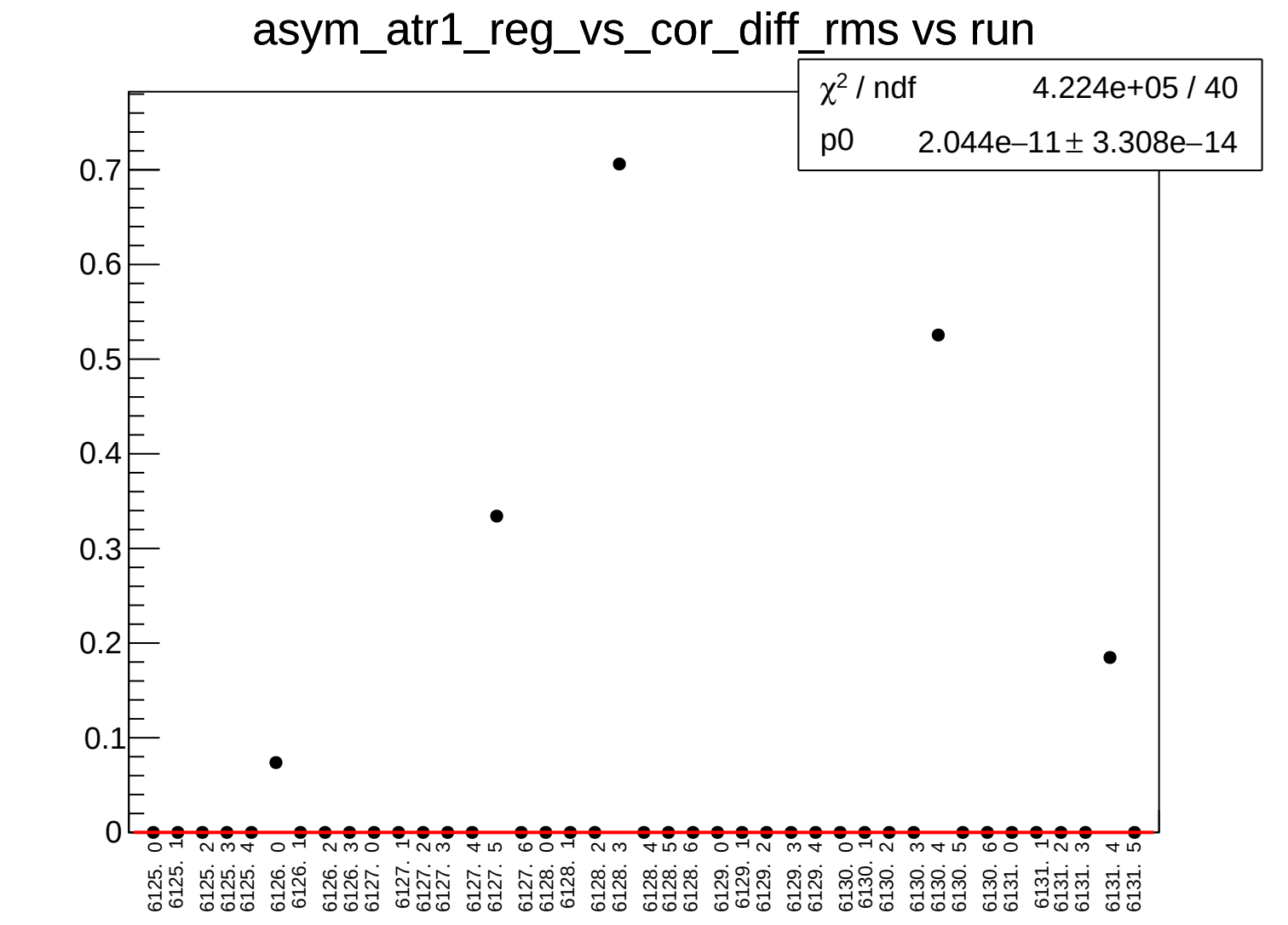
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

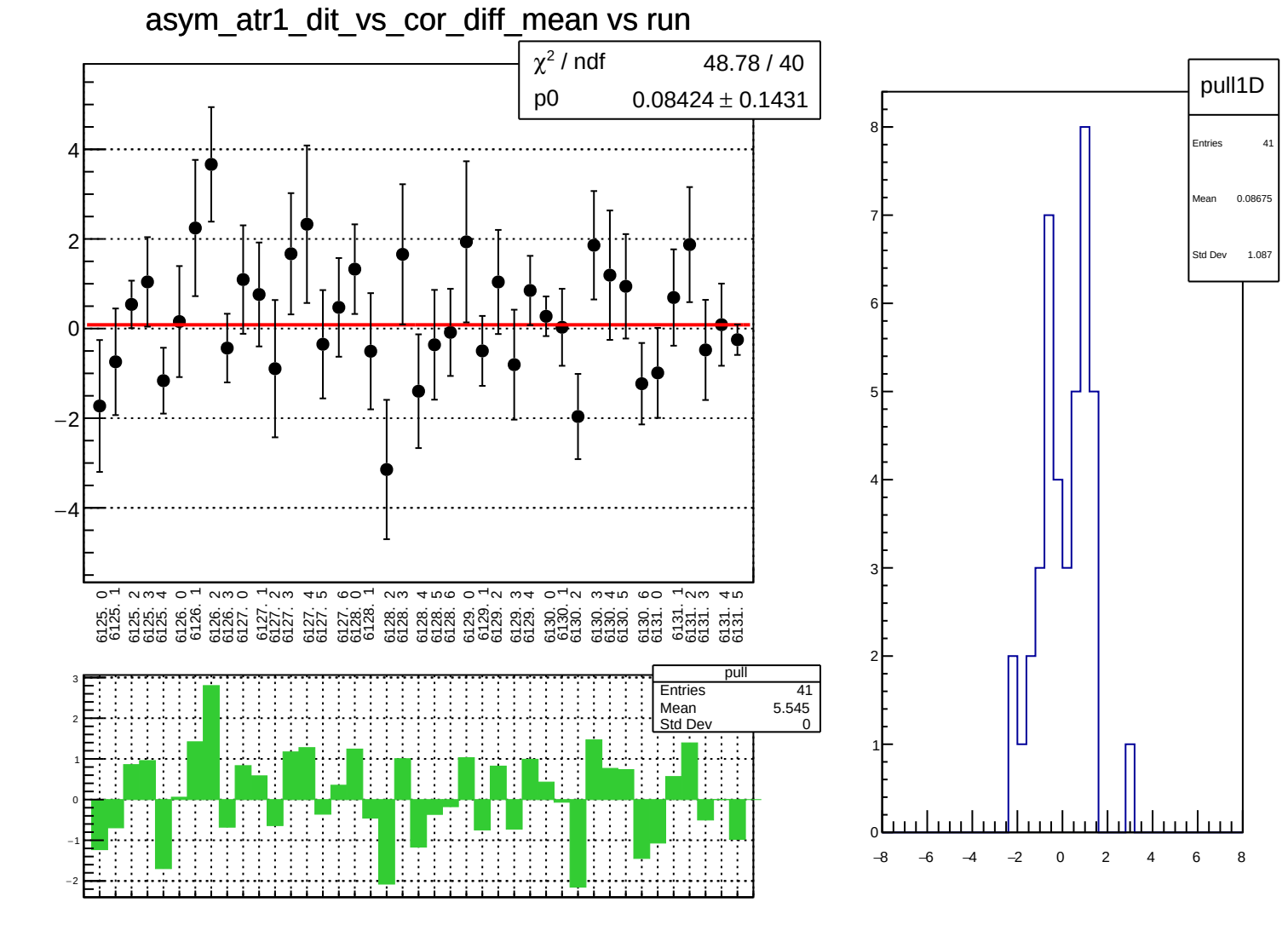

pull1D
Entries 41
Mean −0.01068
Std Dev 0.9024

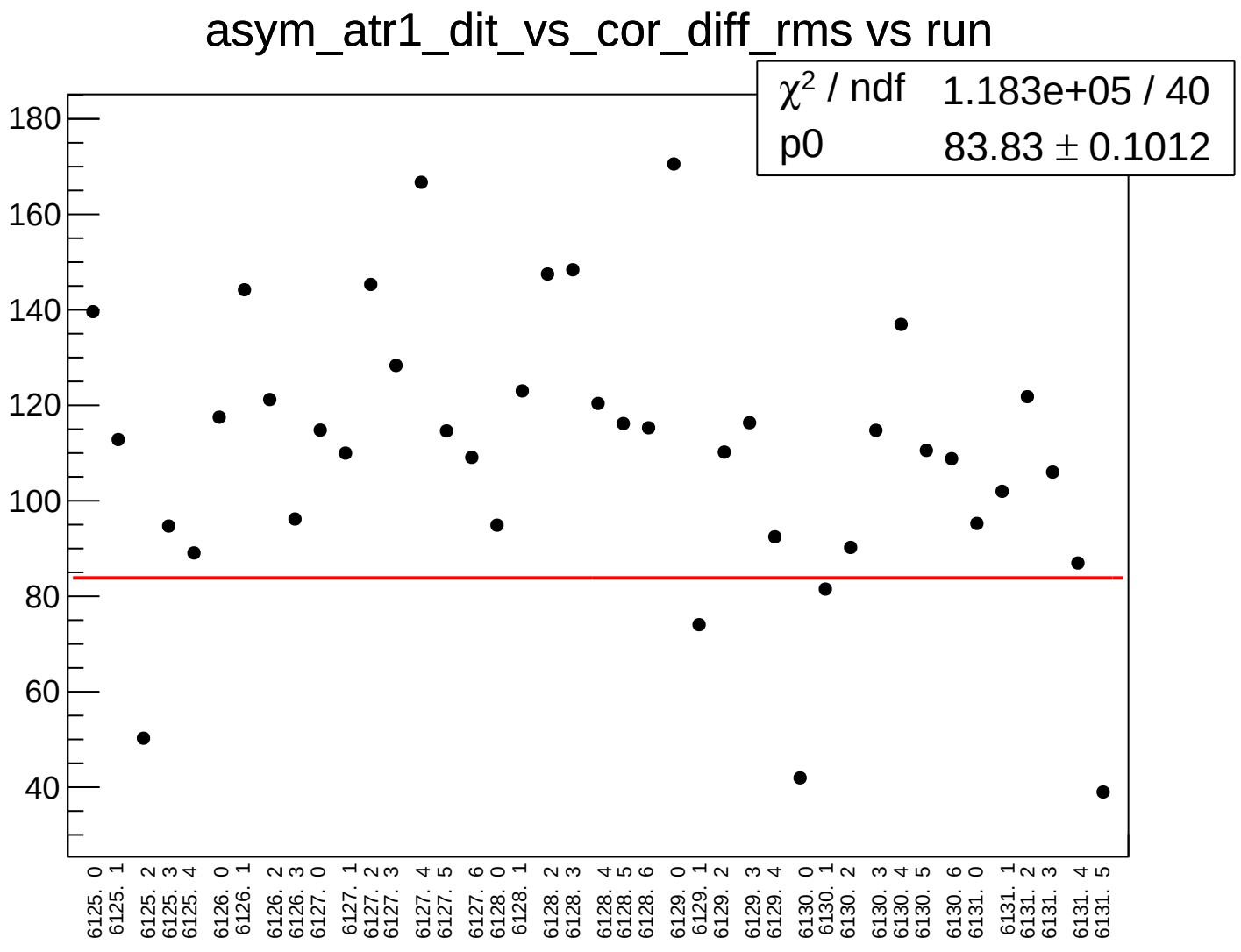

asym_atr1_rms vs run
χ² / ndf 56.78 / 40
p0 2860 ± 3.189
2960
2940
2920
2900
2880
2860
2840
2820
2800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

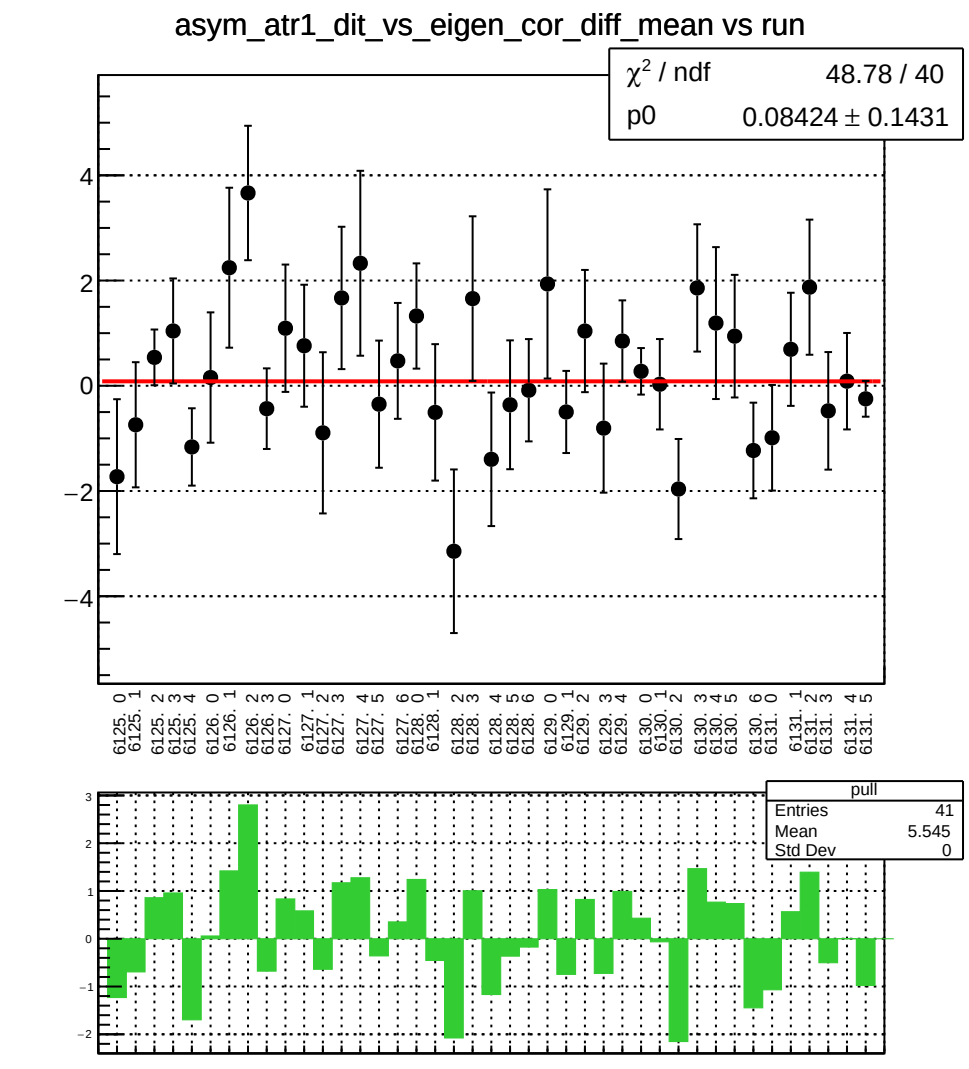

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 39.31 / 40
p0 −2.256e−14 ± 4.678e−14
pull
Entries 41
Mean 16.9
Std Dev 19.9

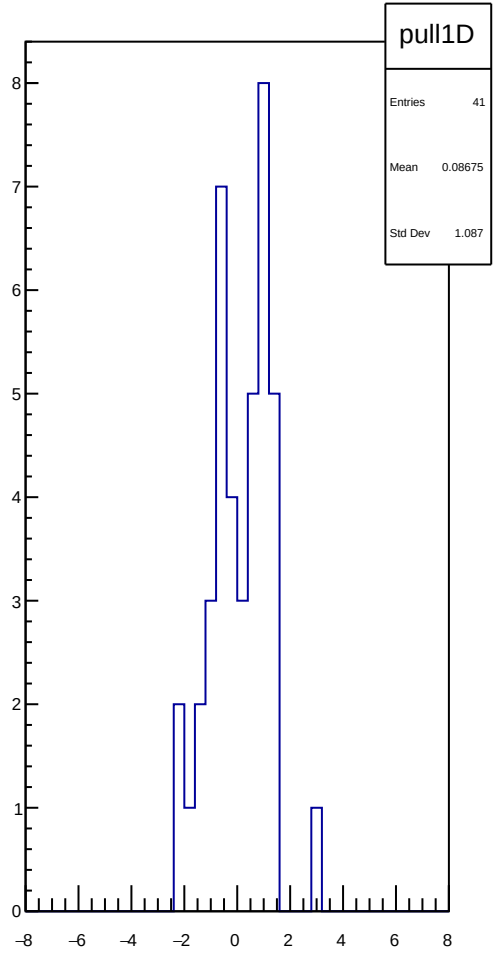

pull1D
Entries 41
Mean 0.1291
Std Dev 0.9707

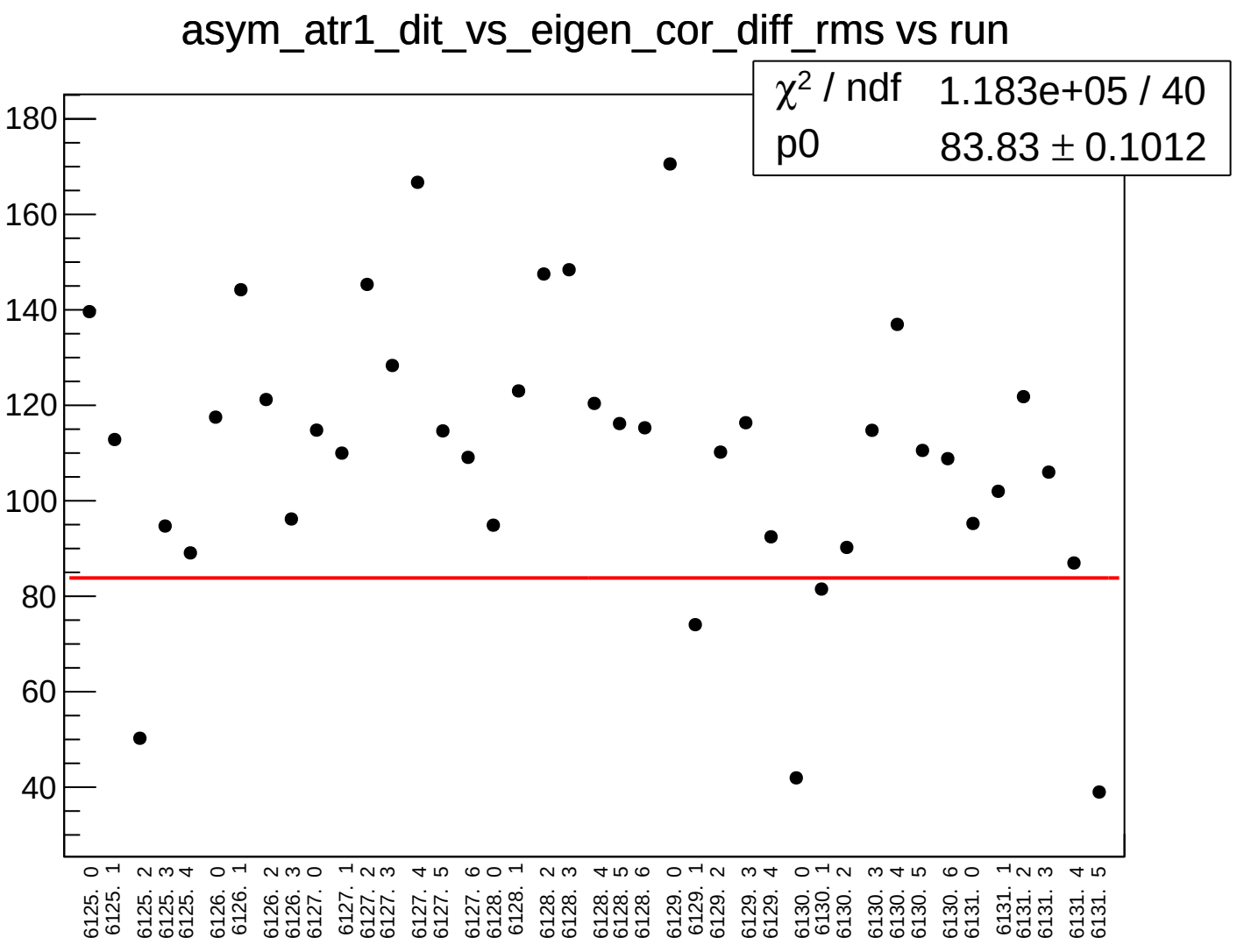

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 4.224e+05 / 40
p0 2.044e−11 ± 3.308e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

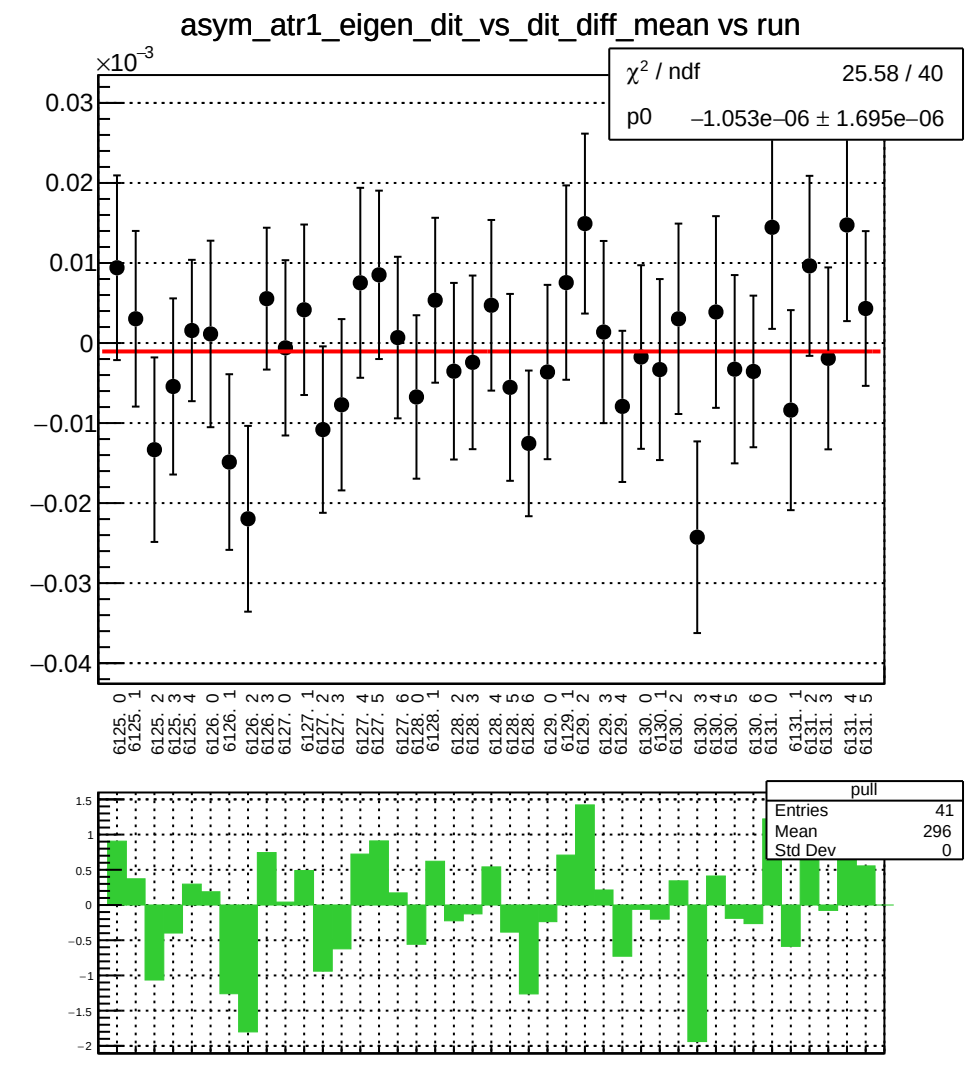

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 48.78 / 40
p0 0.08424 ± 0.1431
pull
Entries 41
Mean 5.545
Std Dev 0
pull1D
Entries 41
Mean 0.08675
Std Dev 1.087

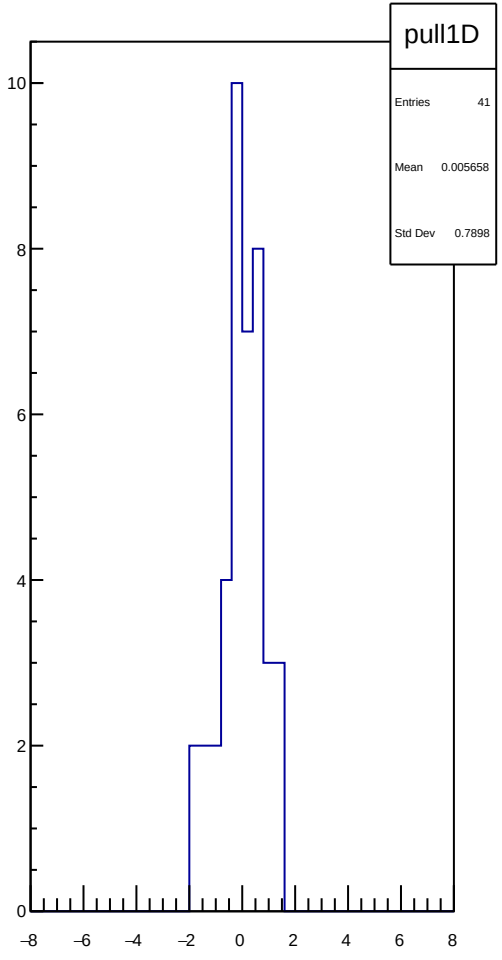

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.183e+05 / 40
p0 83.83 ± 0.1012
180
160
140
120
100
80
60
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

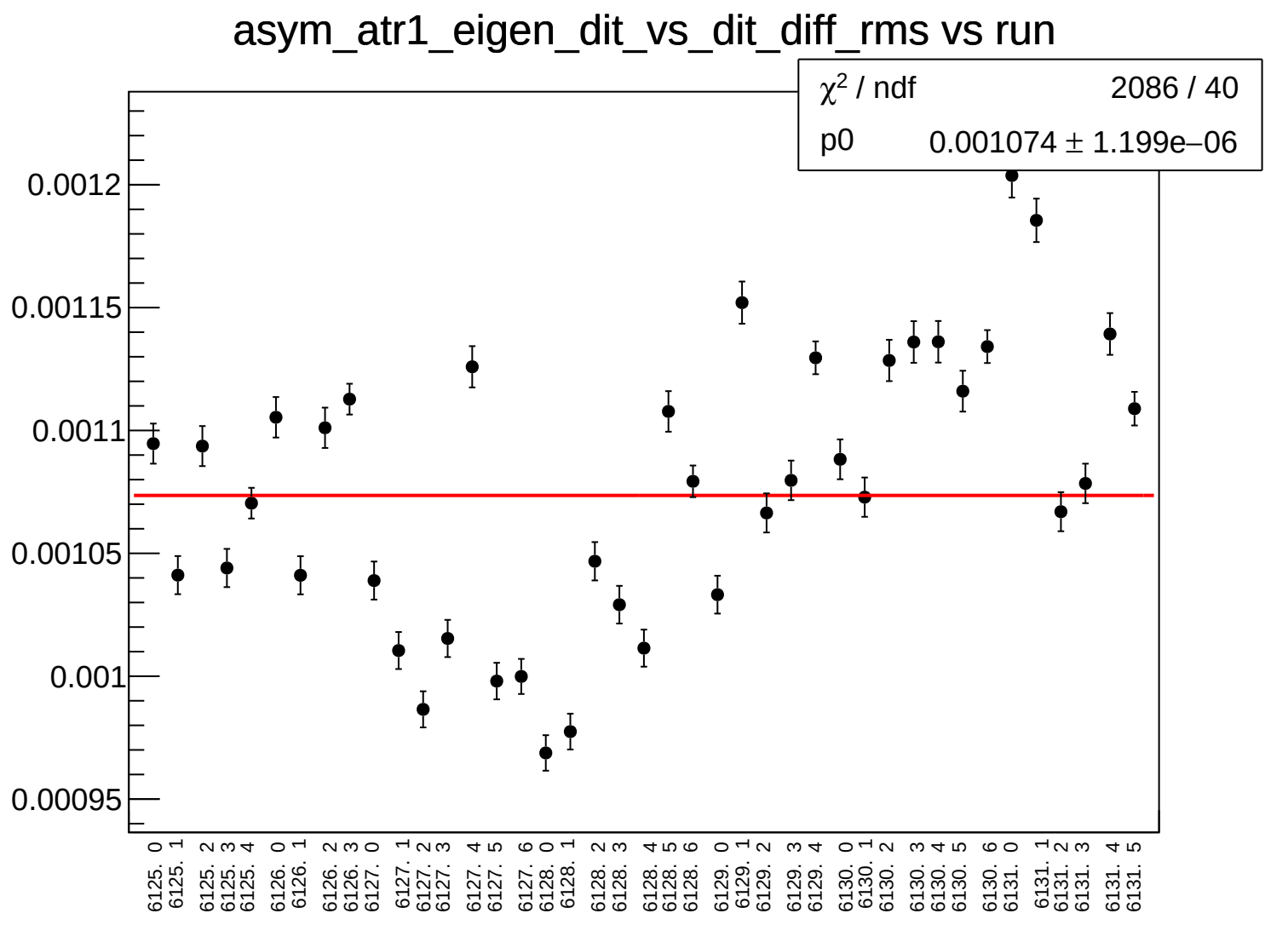

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.78 / 40
p0 0.08424 ± 0.1431
pull
Entries 41
Mean 5.545
Std Dev 0

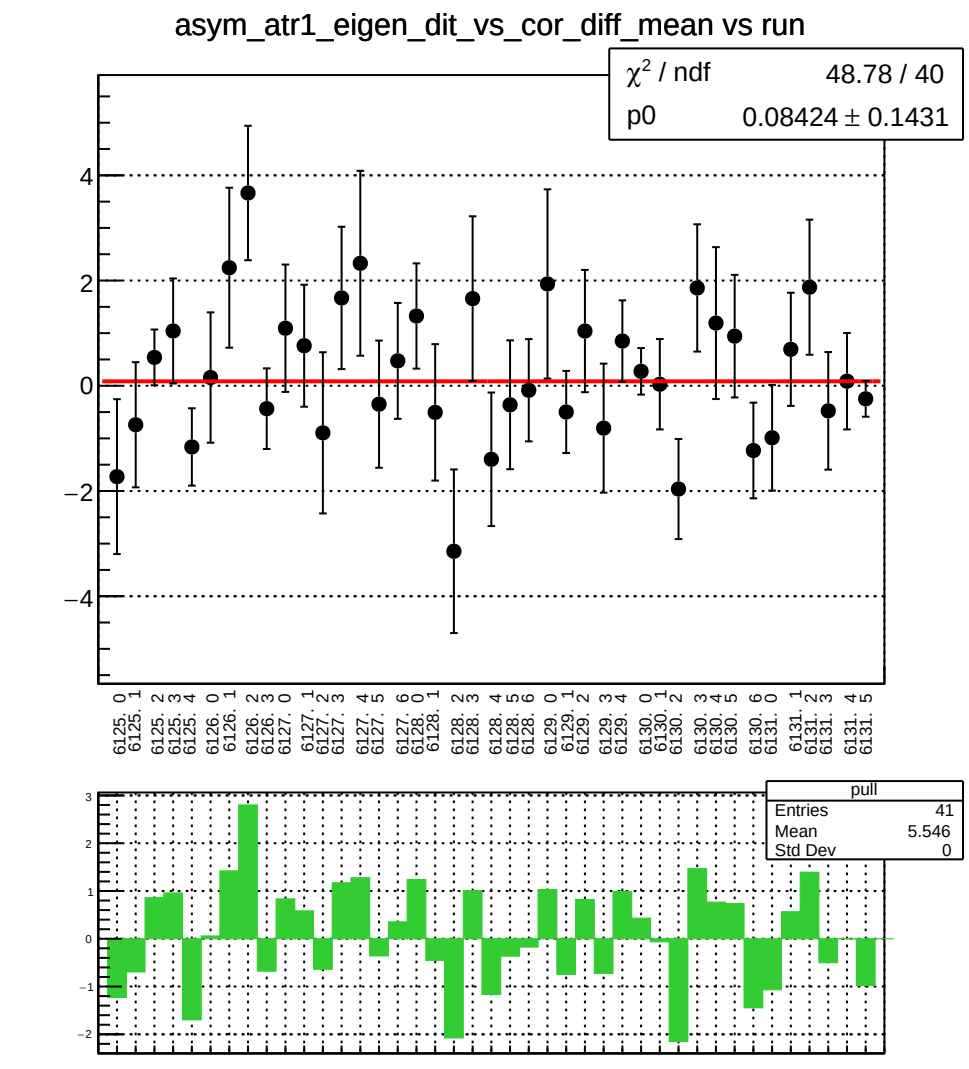

pull1D
Entries 41
Mean 0.08675
Std Dev 1.087

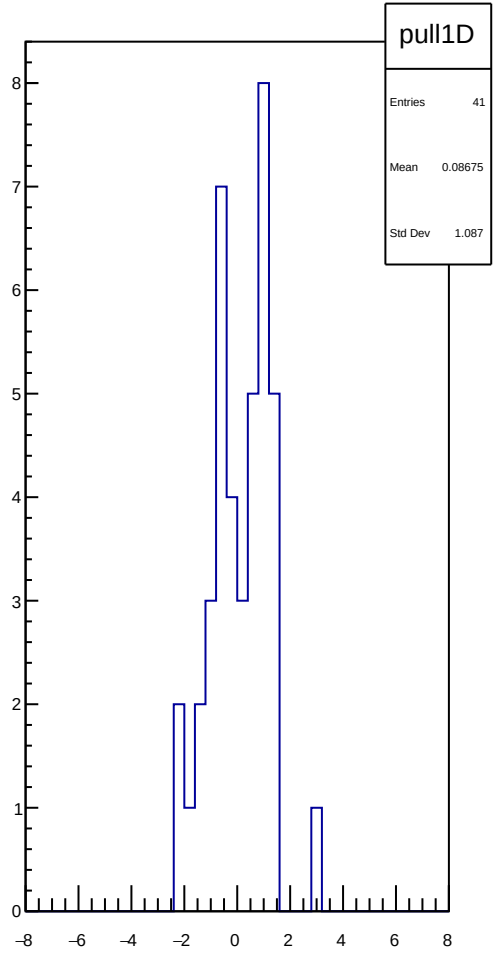

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.183e+05 / 40
p0 83.83 ± 0.1012
180
160
140
120
100
80
60
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

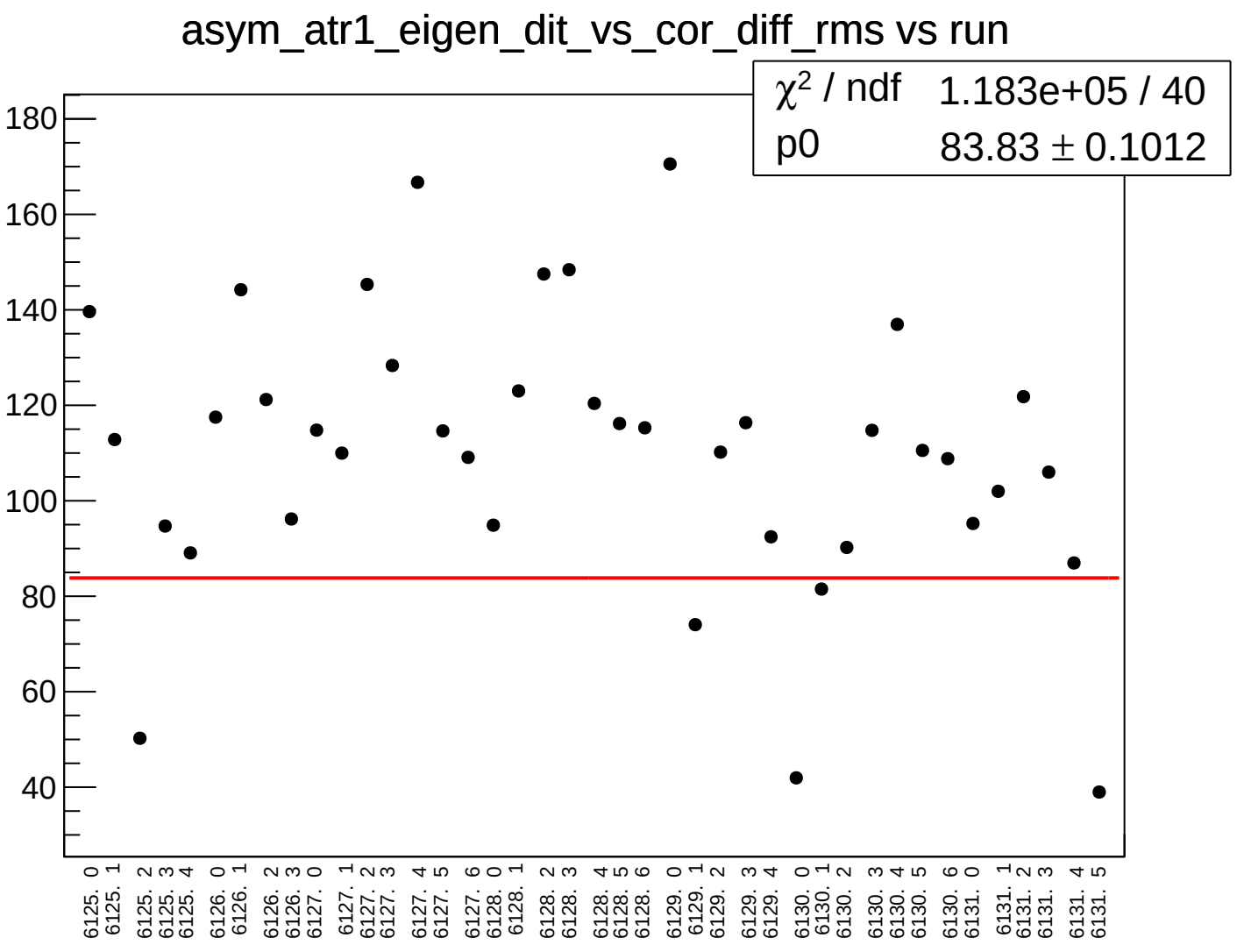

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 25.58 / 40
p0 −1.053e−06 ± 1.695e−06
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 296
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

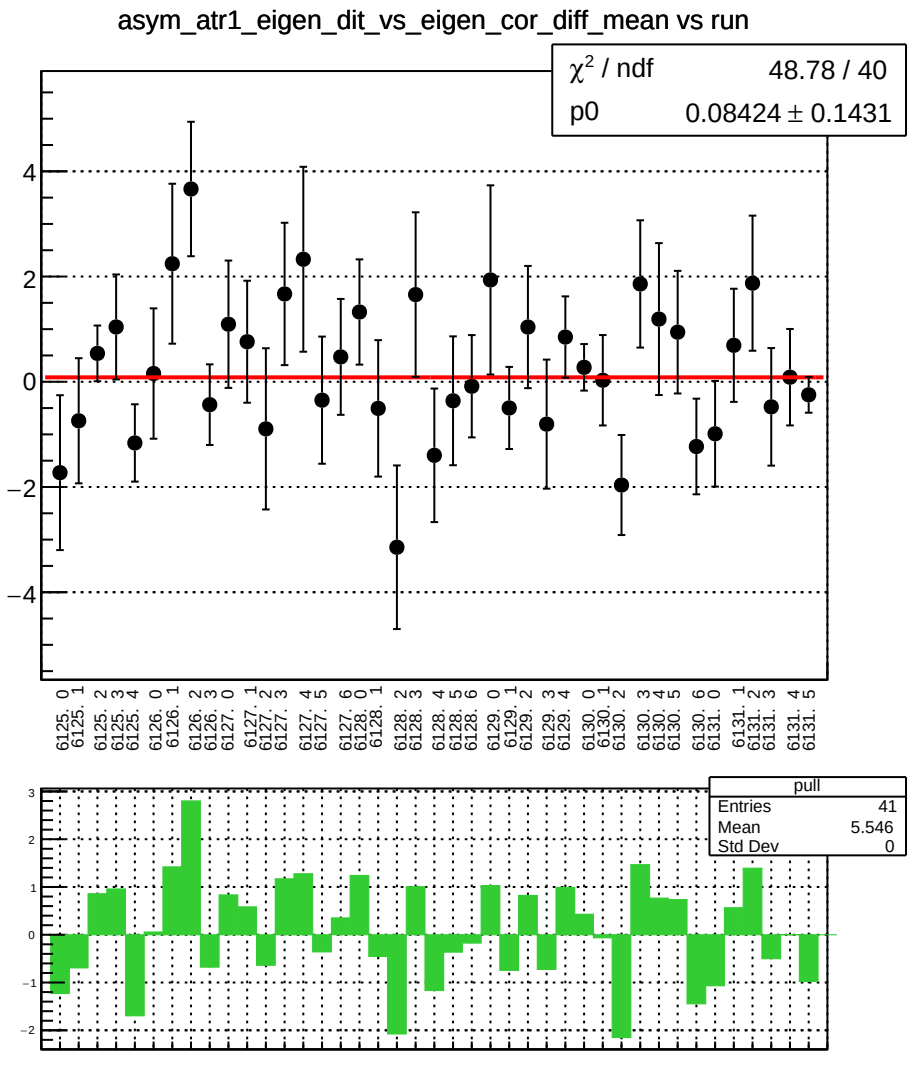

pull1D
Entries 41
Mean 0.005658
Std Dev 0.7898
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

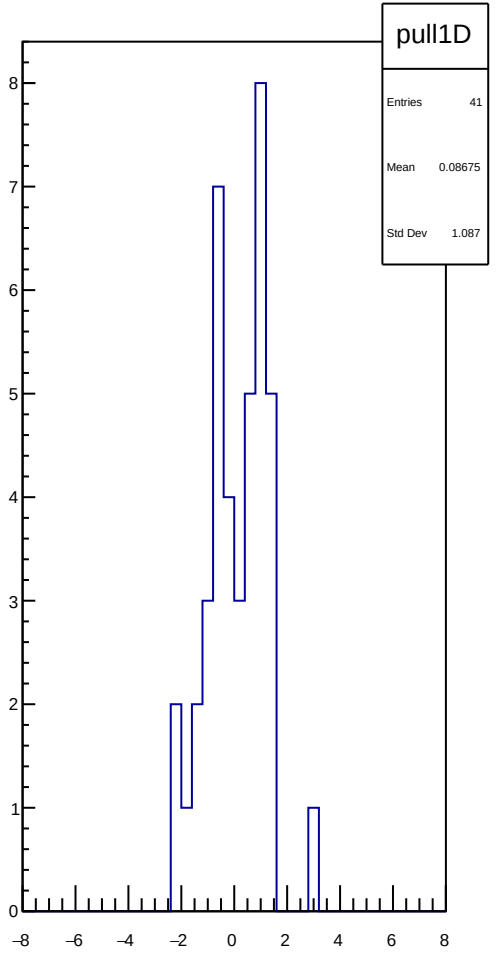

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2086 / 40
p0 0.001074 ± 1.199e−06
0.0012
0.00115
0.0011
0.00105
0.001
0.00095
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

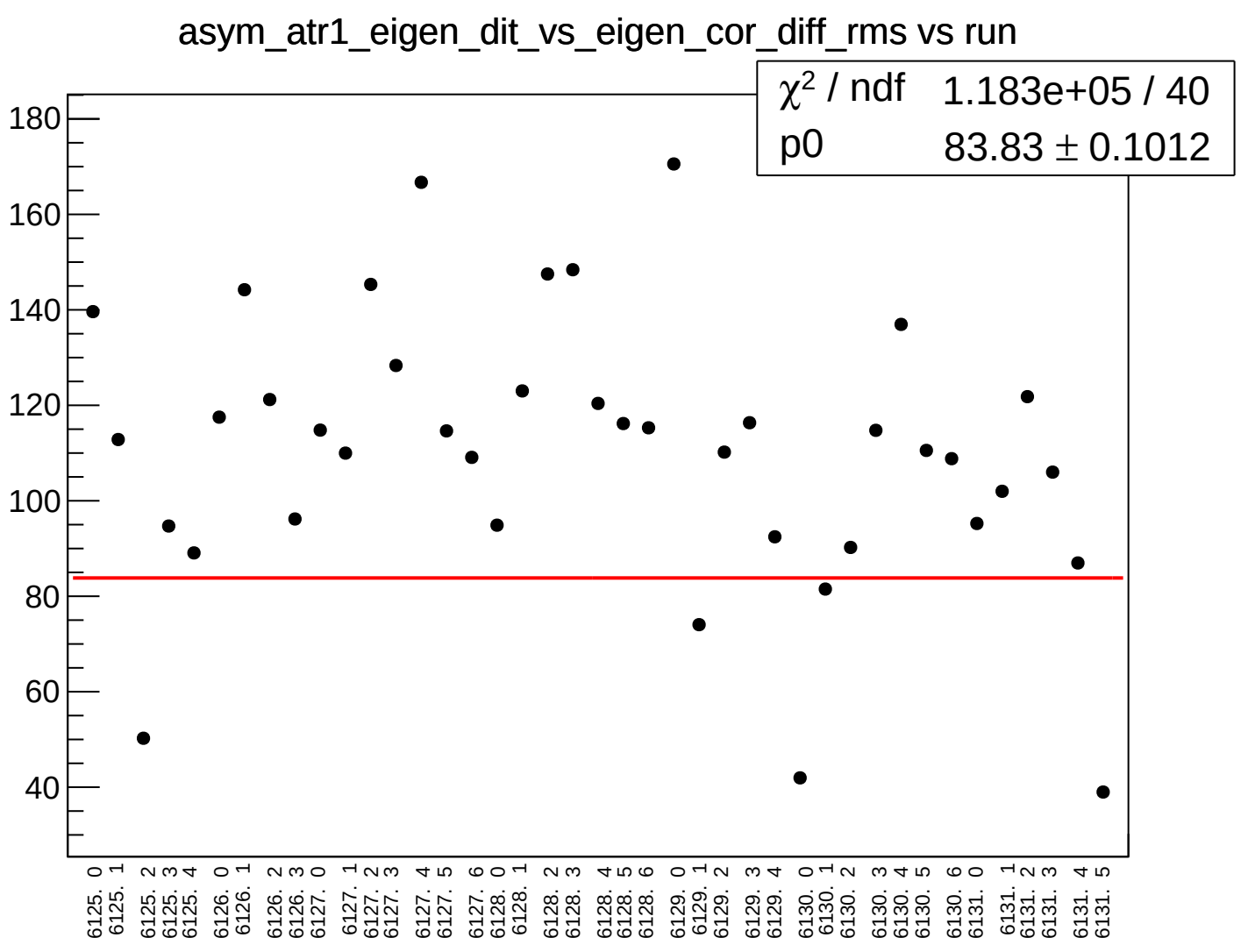

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 48.78 / 40
p0 0.08424 ± 0.1431
pull
Entries 41
Mean 5.546
Std Dev 0

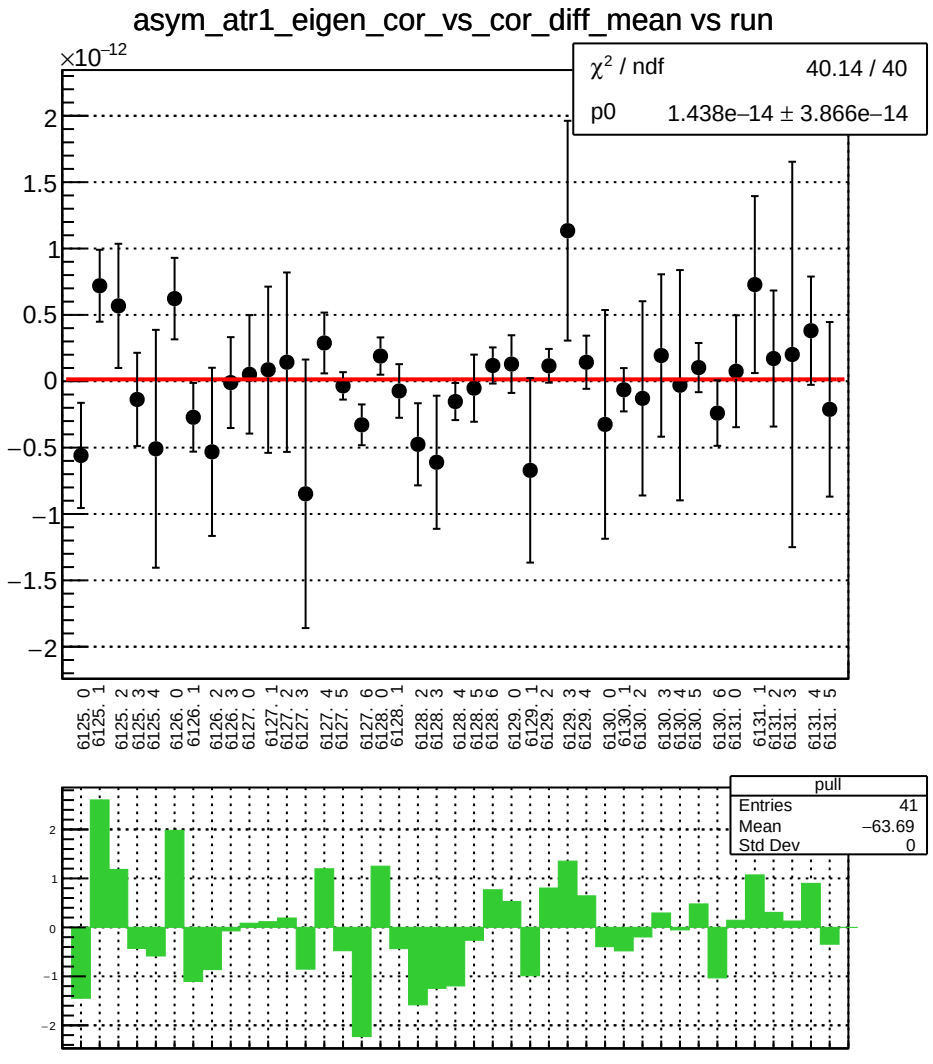

pull1D
Entries 41
Mean 0.08675
Std Dev 1.087

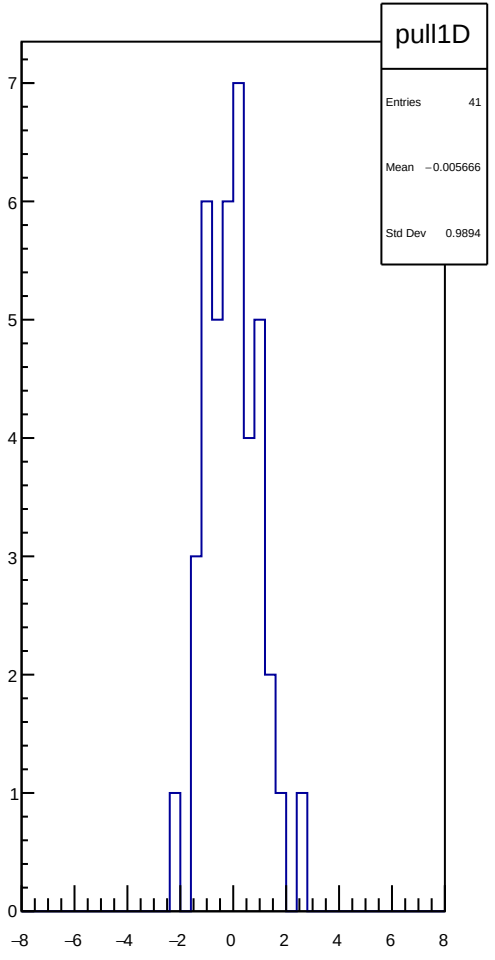

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.183e+05 / 40
p0 83.83 ± 0.1012
180
160
140
120
100
80
60
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

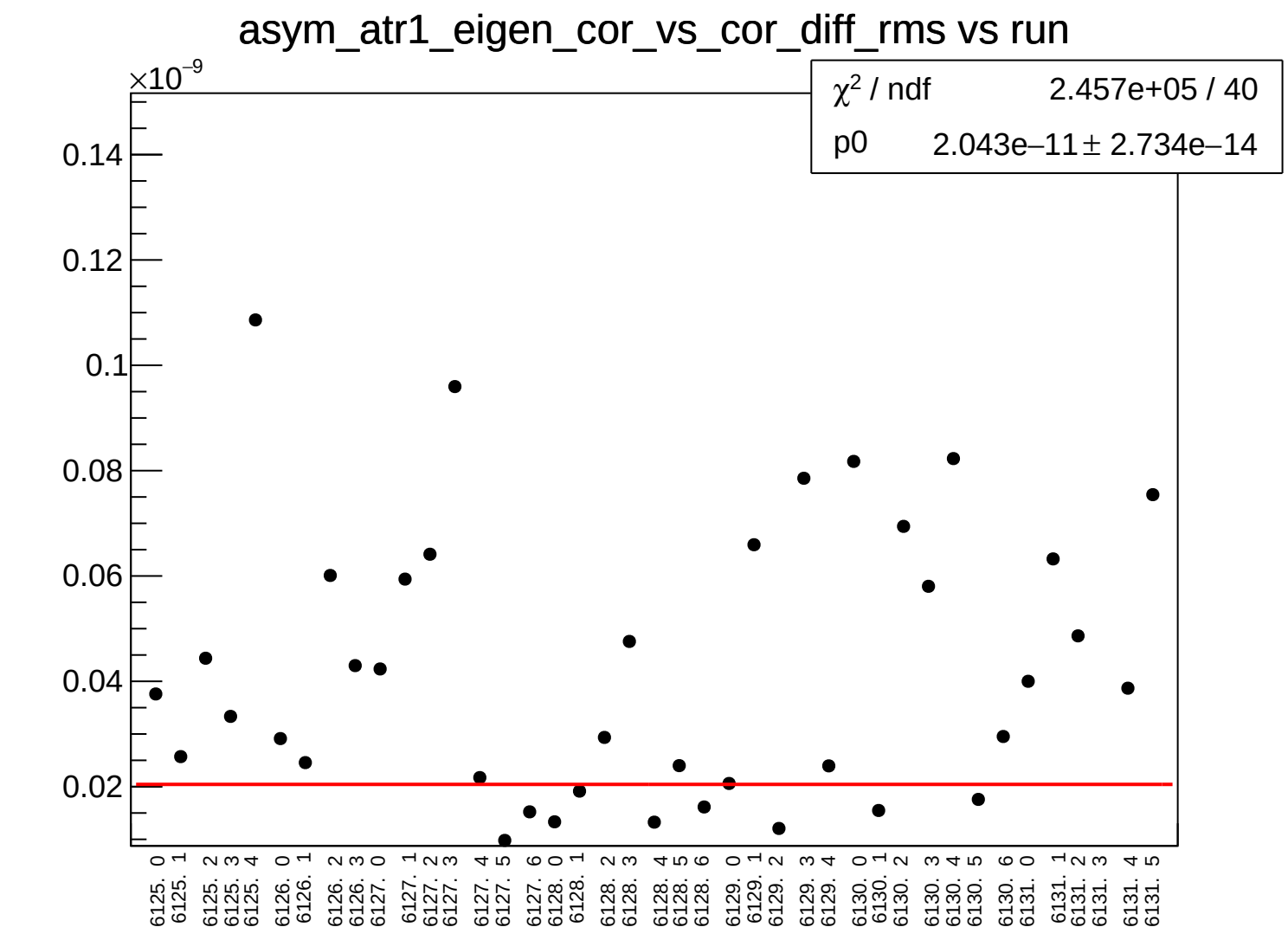

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.78 / 40
p0 0.08424 ± 0.1431
pull
Entries 41
Mean 5.546
Std Dev 0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

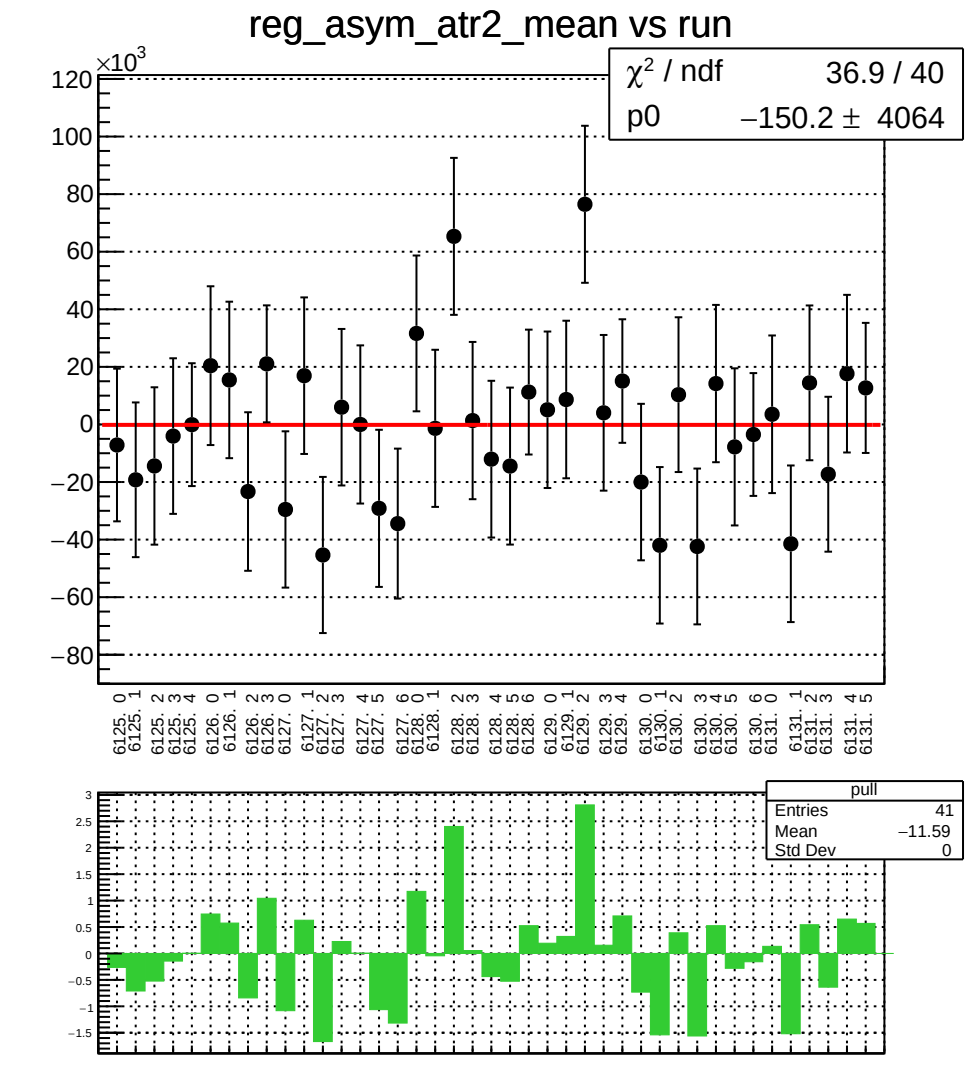

pull1D
Entries 41
Mean 0.08675
Std Dev 1.087

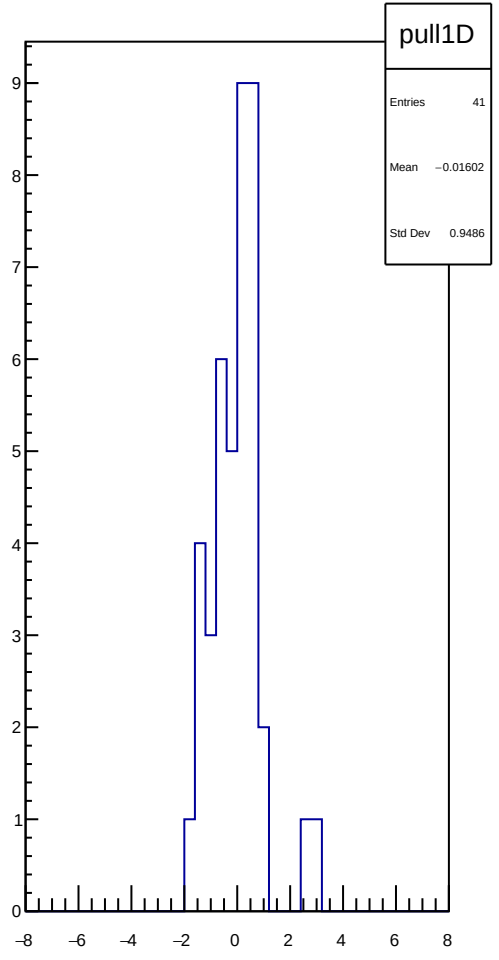

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.183e+05 / 40
p0 83.83 ± 0.1012
180
160
140
120
100
80
60
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

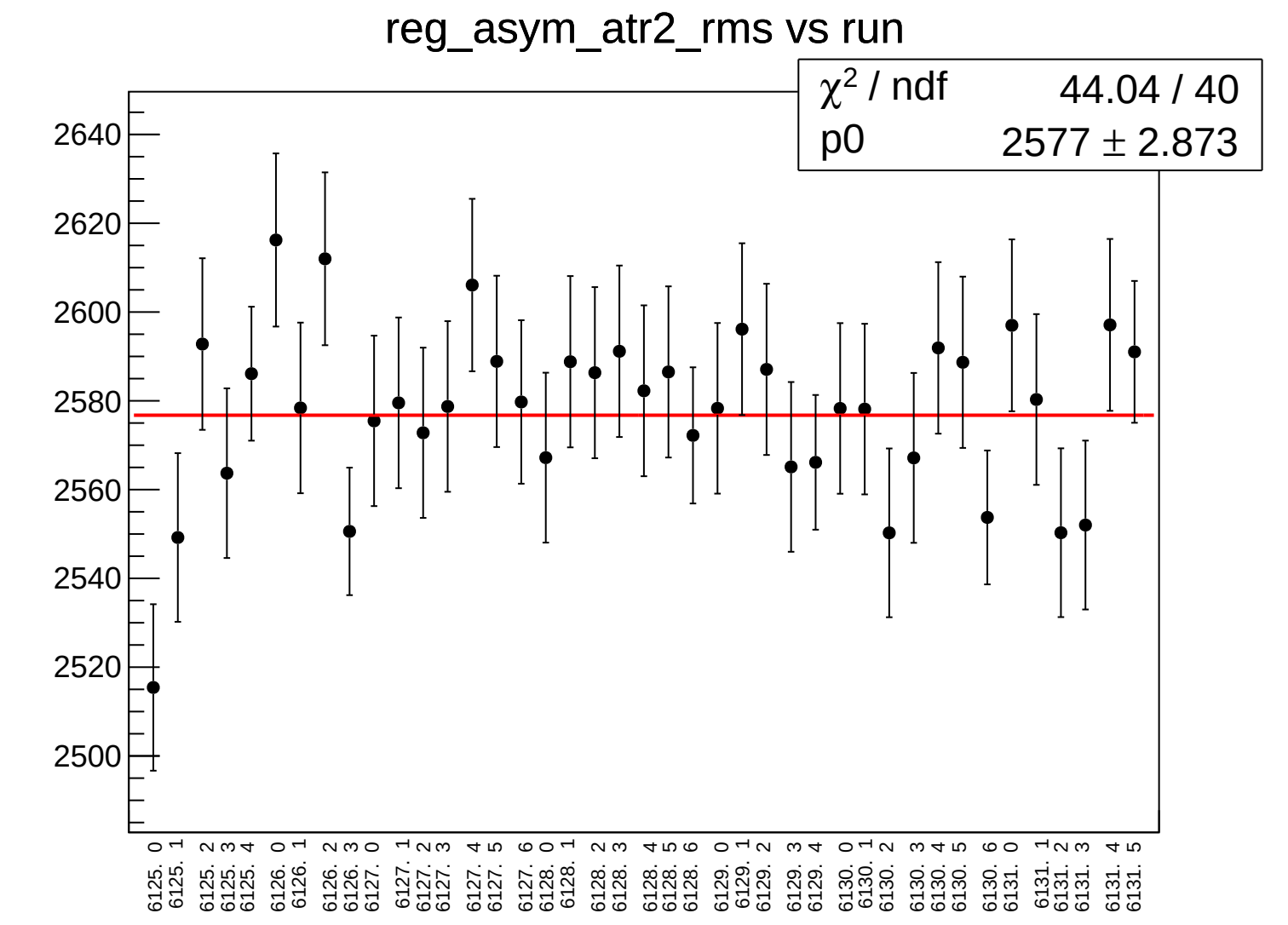

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.14 / 40
p0 1.438e−14 ± 3.866e−14
pull
Entries 41
Mean −63.69
Std Dev 0

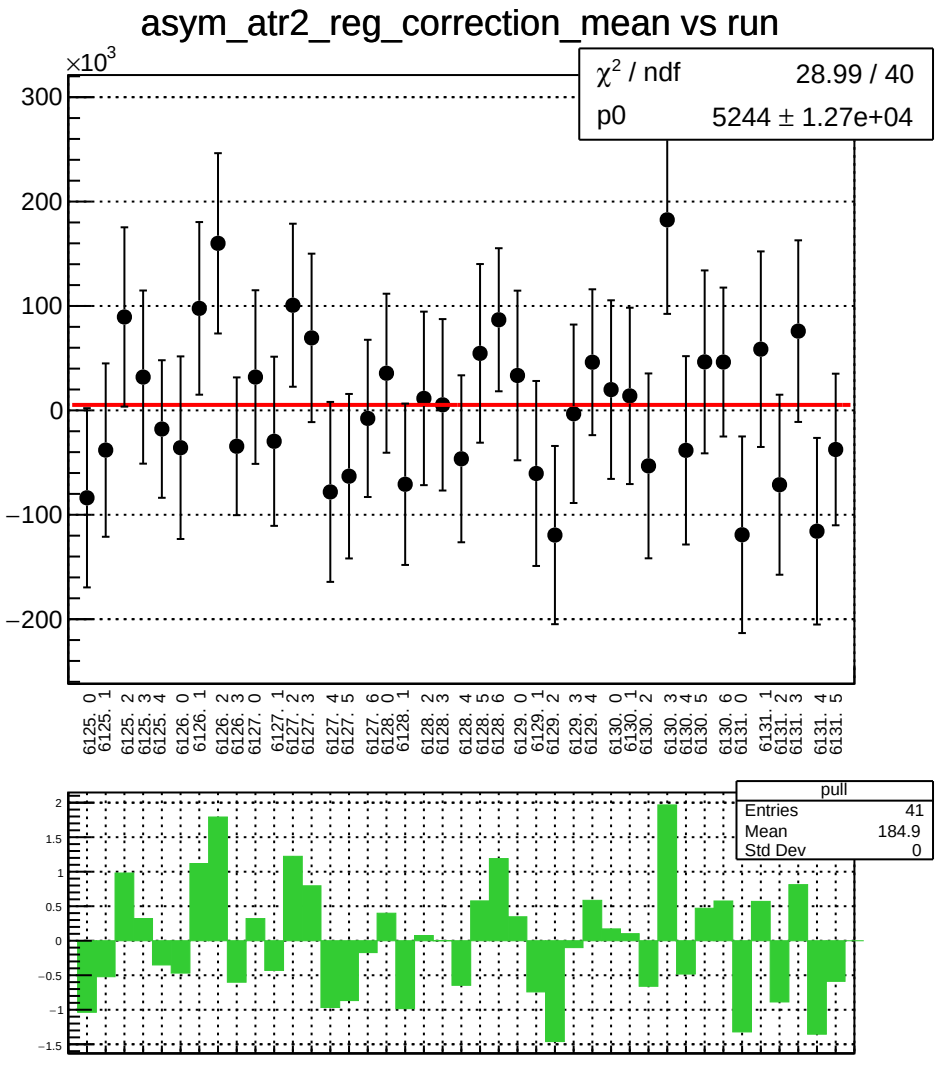

pull1D
Entries 41
Mean −0.005666
Std Dev 0.9894

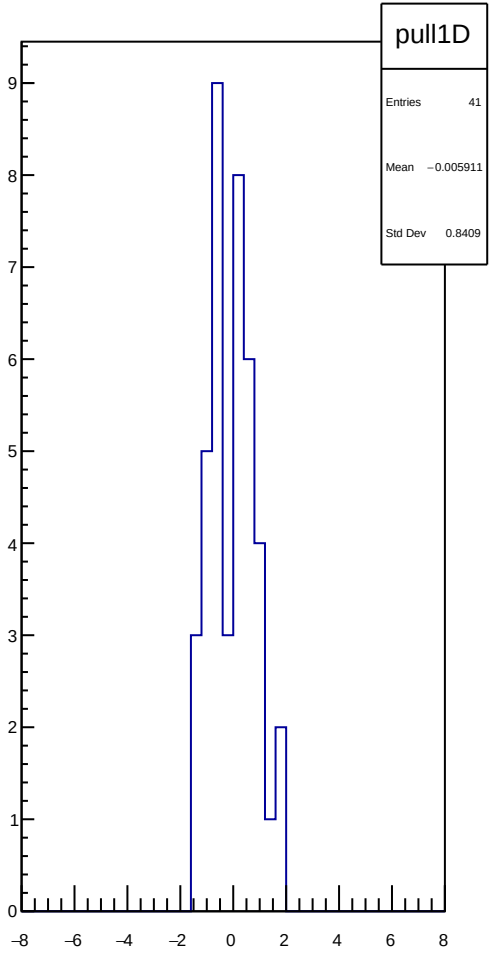

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.457e+05 / 40
p0 2.043e−11 ± 2.734e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

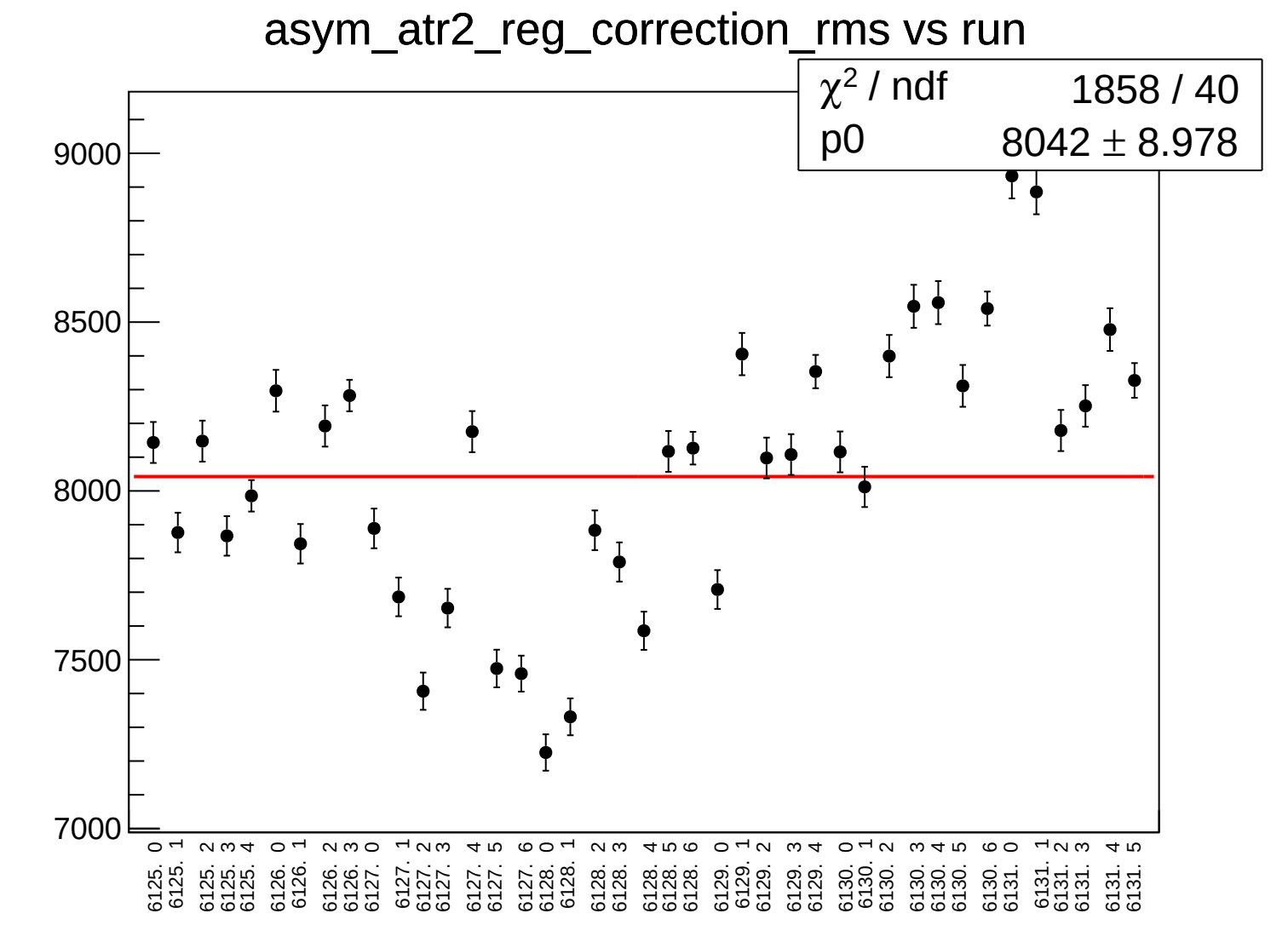

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 36.9 / 40
p0 −150.2 ± 4064
pull
Entries 41
Mean −11.59
Std Dev 0

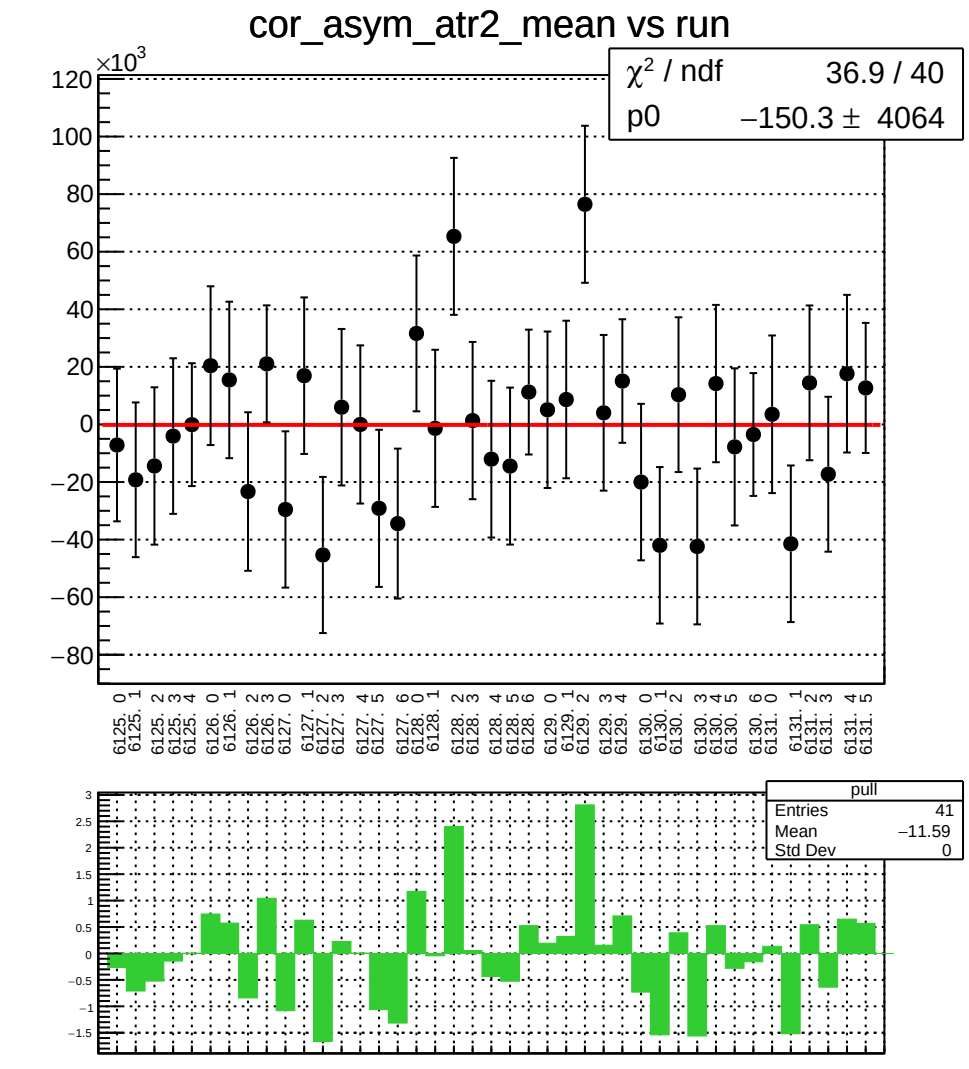

pull1D
Entries 41
Mean −0.01602
Std Dev 0.9486

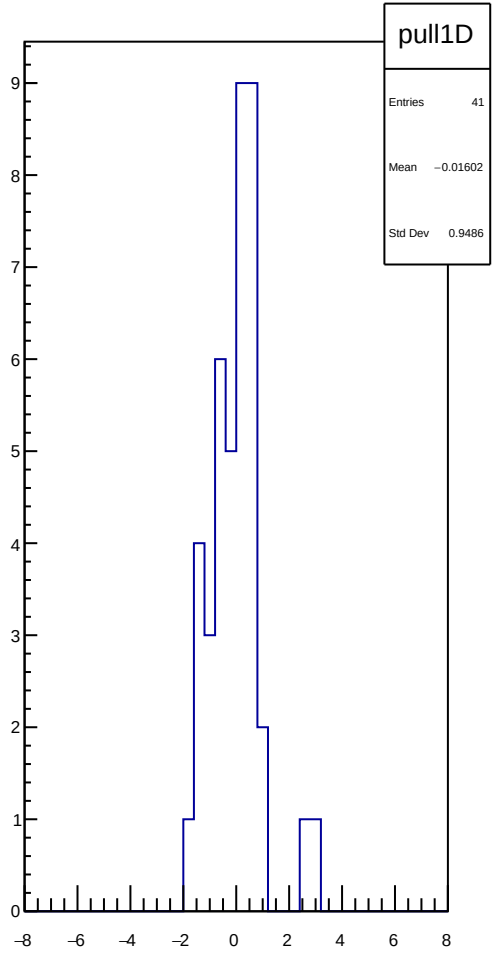

reg_asym_atr2_rms vs run
χ² / ndf 44.04 / 40
p0 2577 ± 2.873
2640
2620
2600
2580
2560
2540
2520
2500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

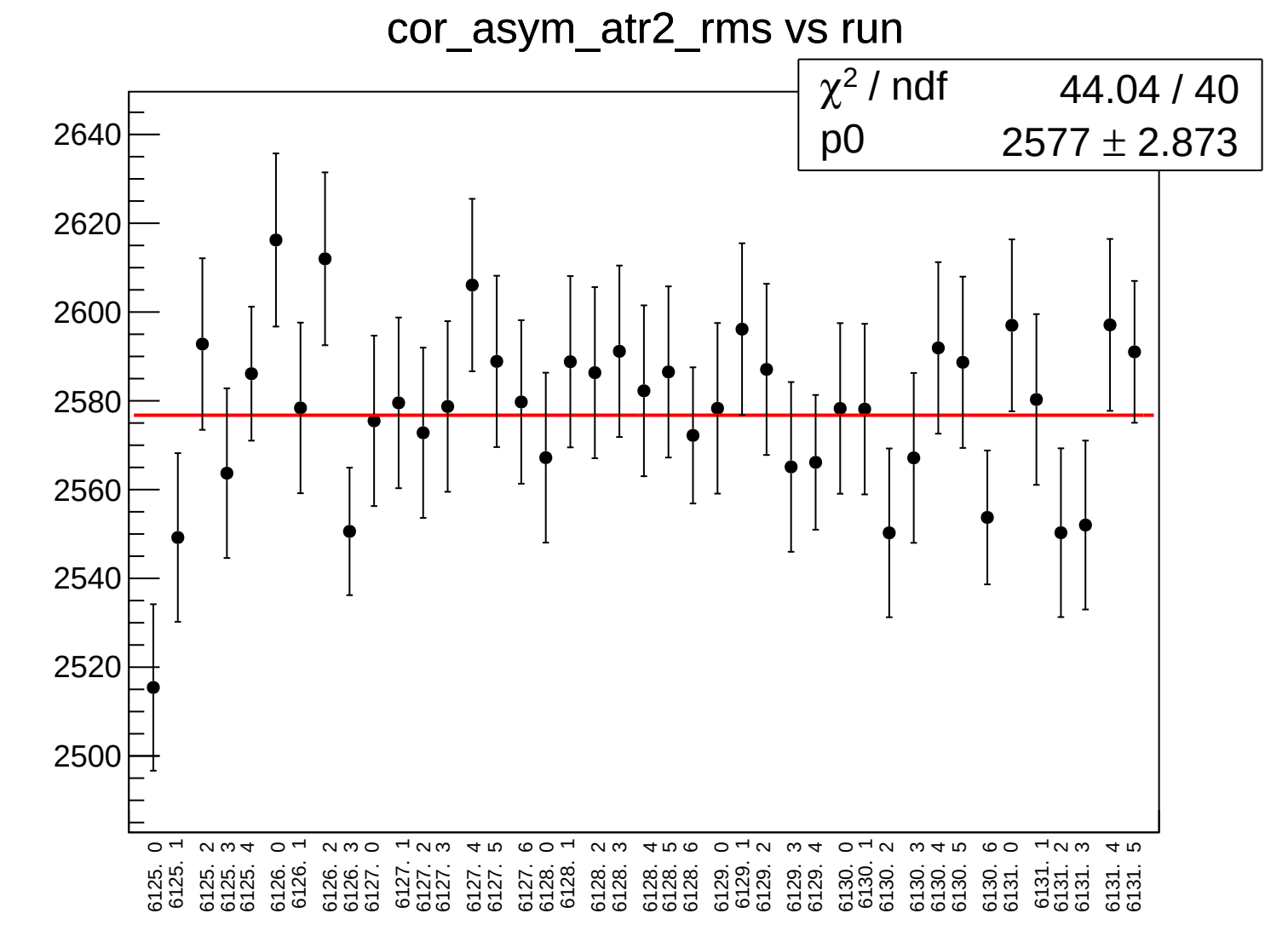

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 28.99 / 40
p0 5244 ± 1.27e+04
300
200
100
0
−100
−200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 184.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

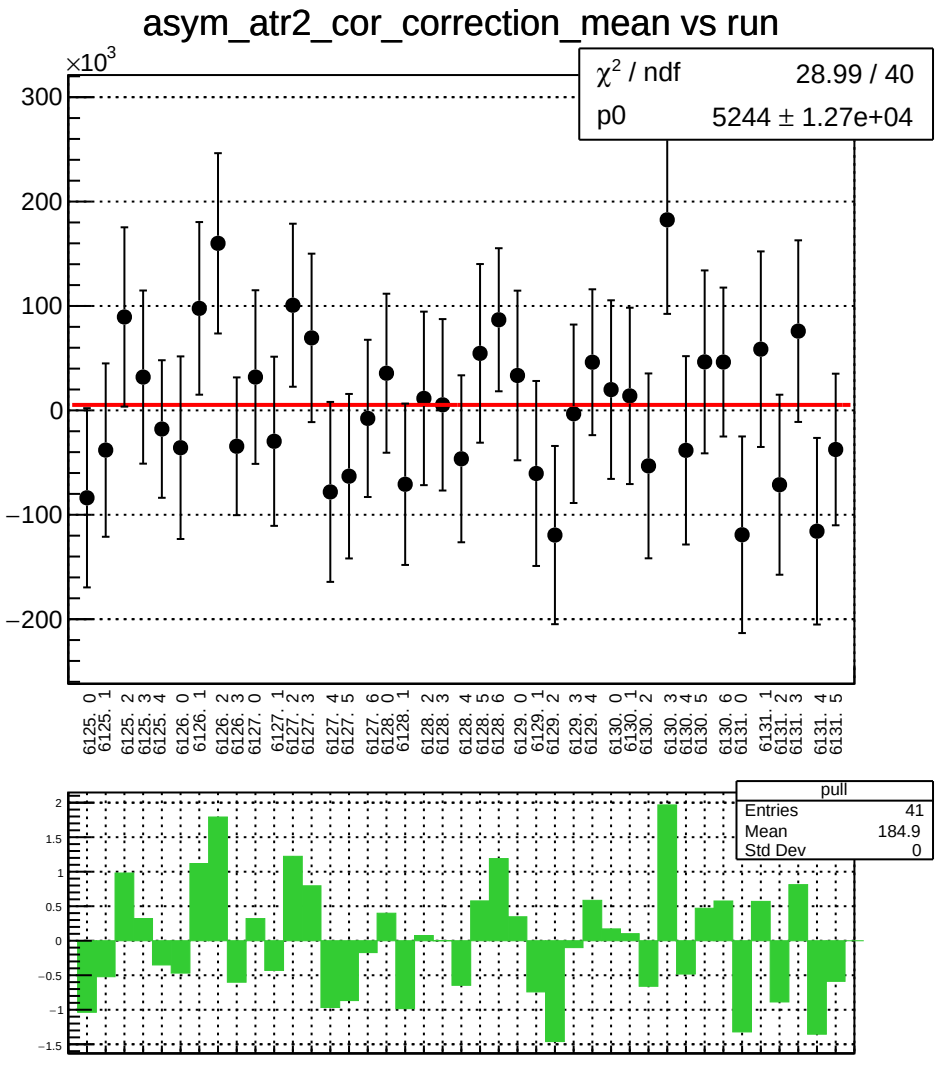

pull1D
Entries 41
Mean −0.005911
Std Dev 0.8409
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

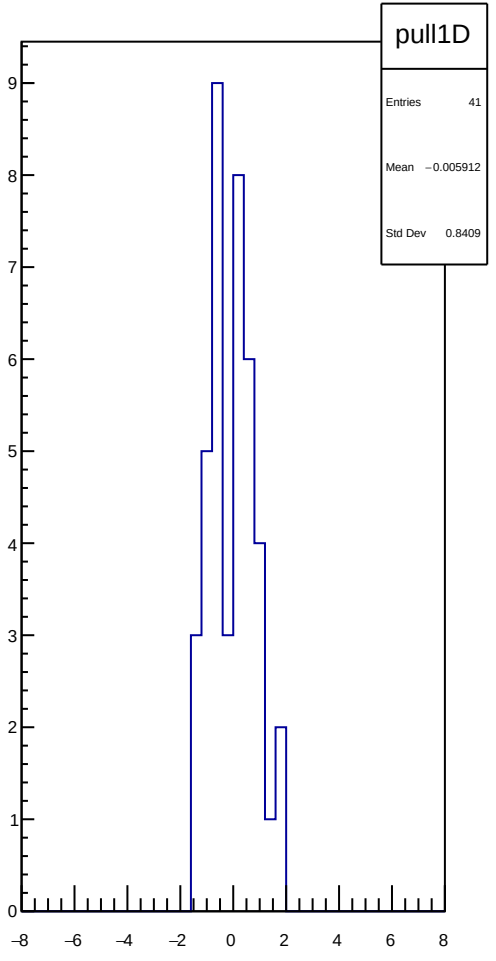

asym_atr2_reg_correction_rms vs run
χ² / ndf 1858 / 40
p0 8042 ± 8.978
9000
8500
8000
7500
7000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

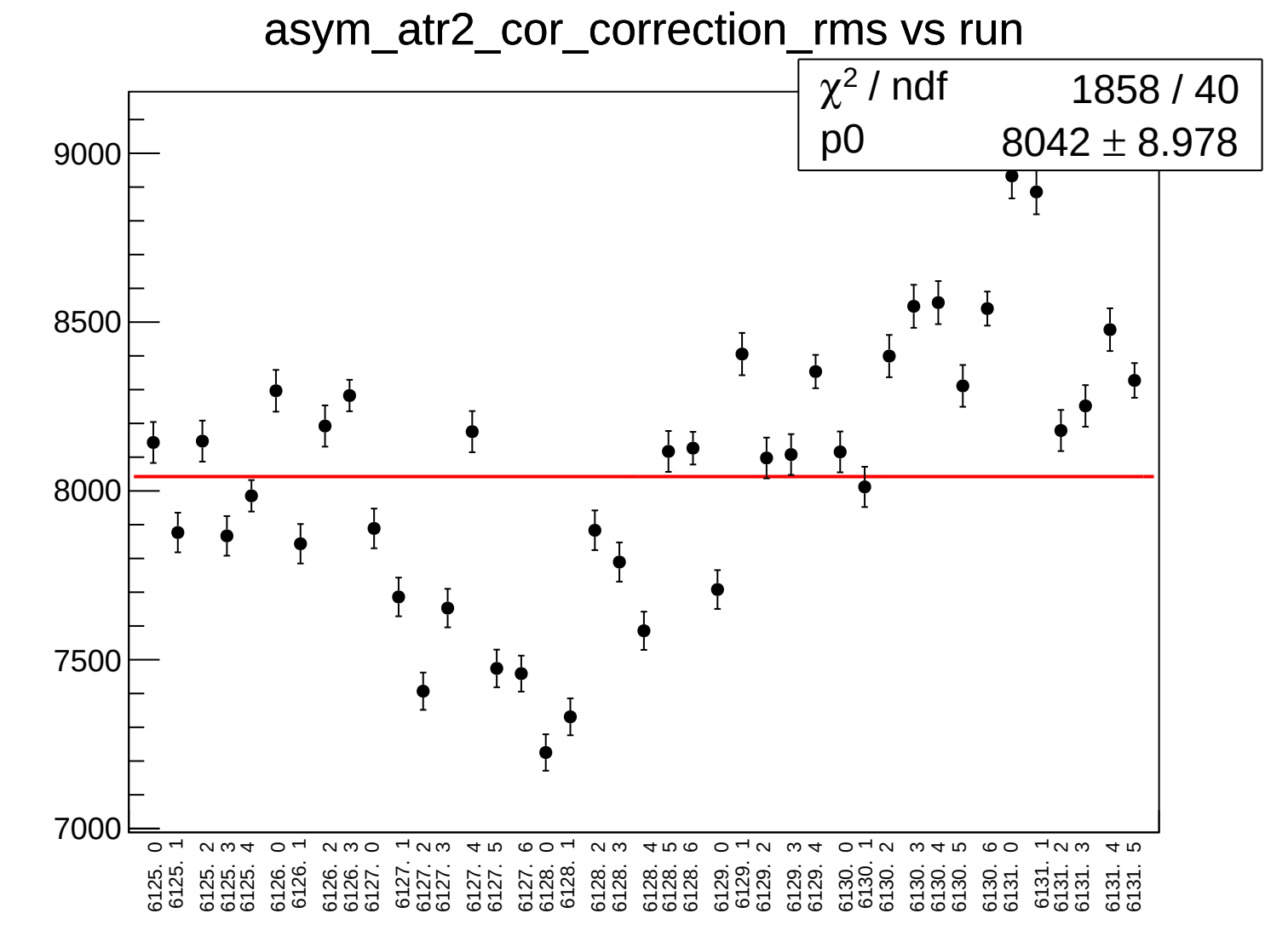

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 36.9 / 40
p0 −150.3 ± 4064
120
100
80
60
40
20
0
−20
−40
−60
−80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −11.59
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

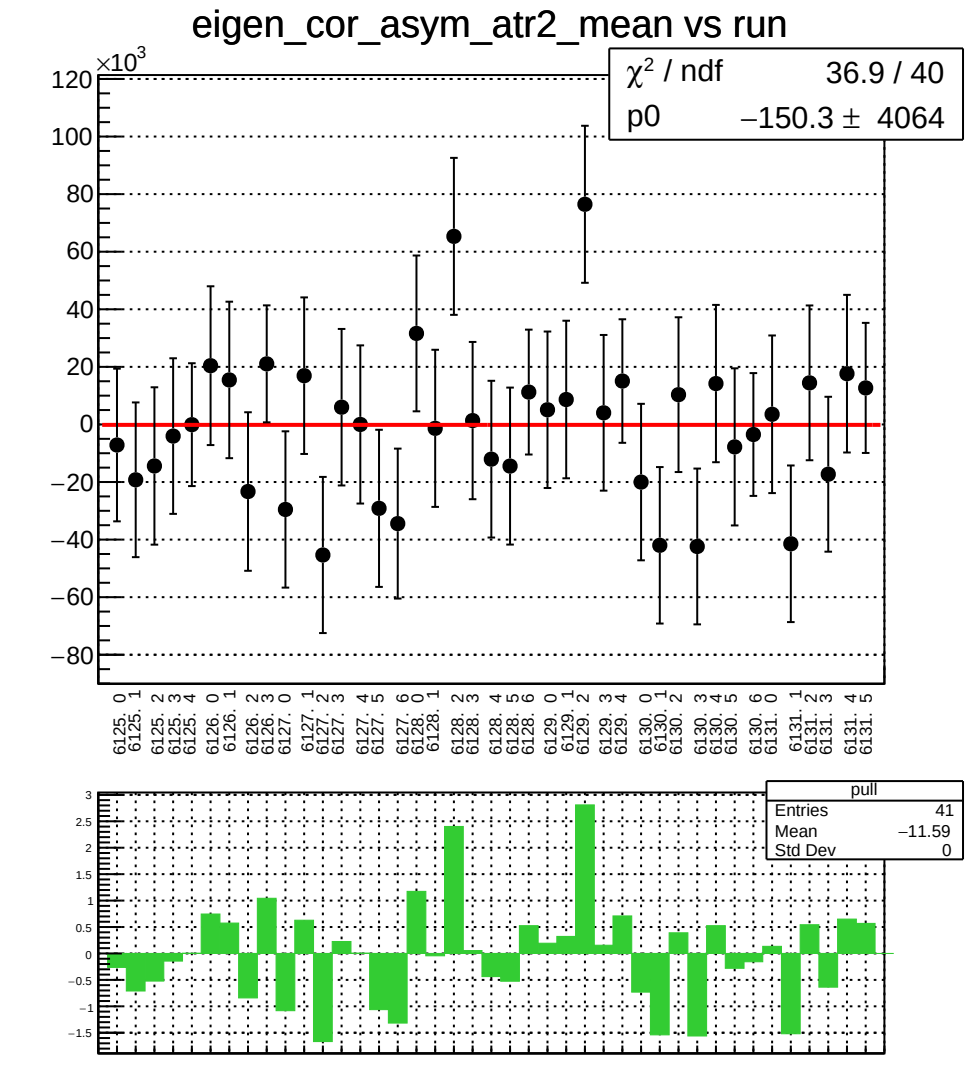

pull1D
Entries 41
Mean −0.01602
Std Dev 0.9486
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

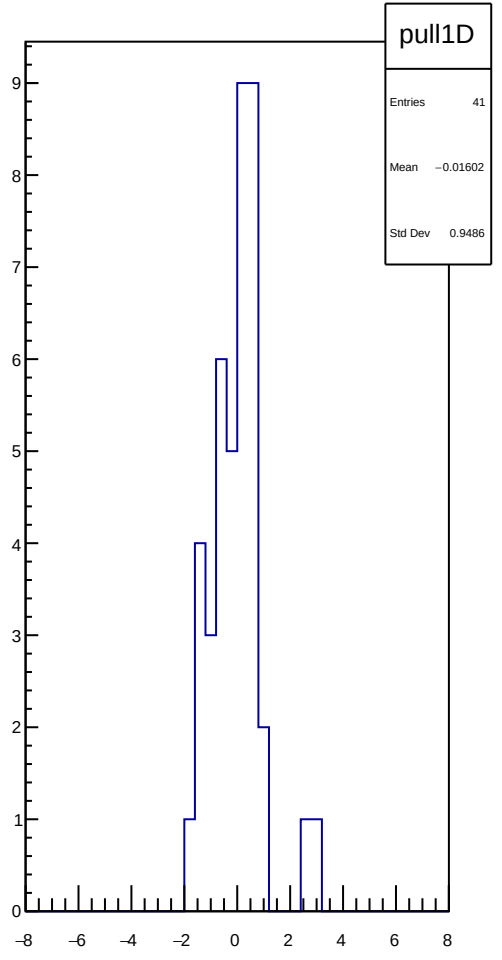

cor_asym_atr2_rms vs run
χ² / ndf 44.04 / 40
p0 2577 ± 2.873
2640
2620
2600
2580
2560
2540
2520
2500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

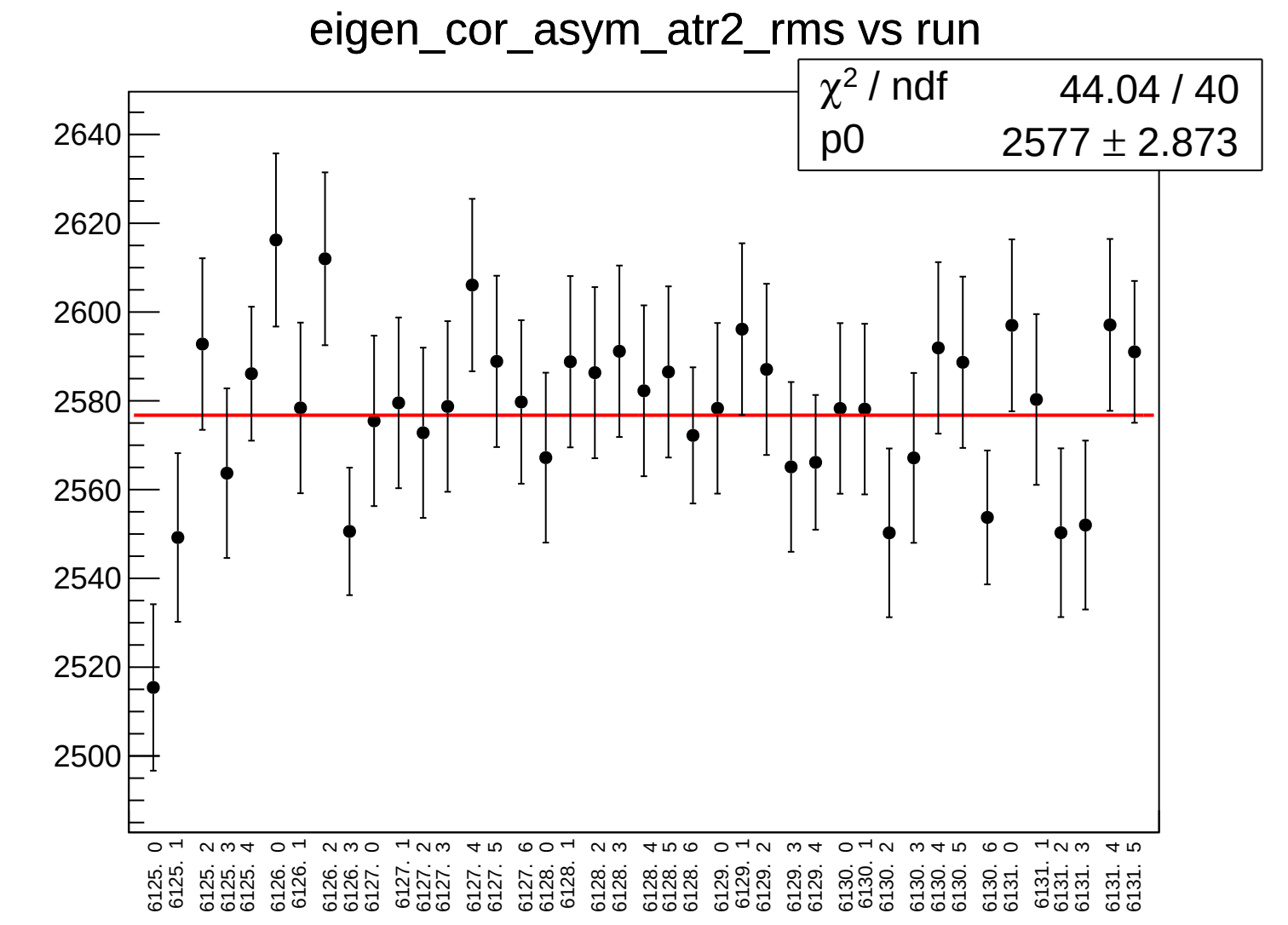

asym_atr2_cor_correction_mean vs run
χ² / ndf 28.99 / 40
p0 5244 ± 1.27e+04
pull
Entries 41
Mean 184.9
Std Dev 0

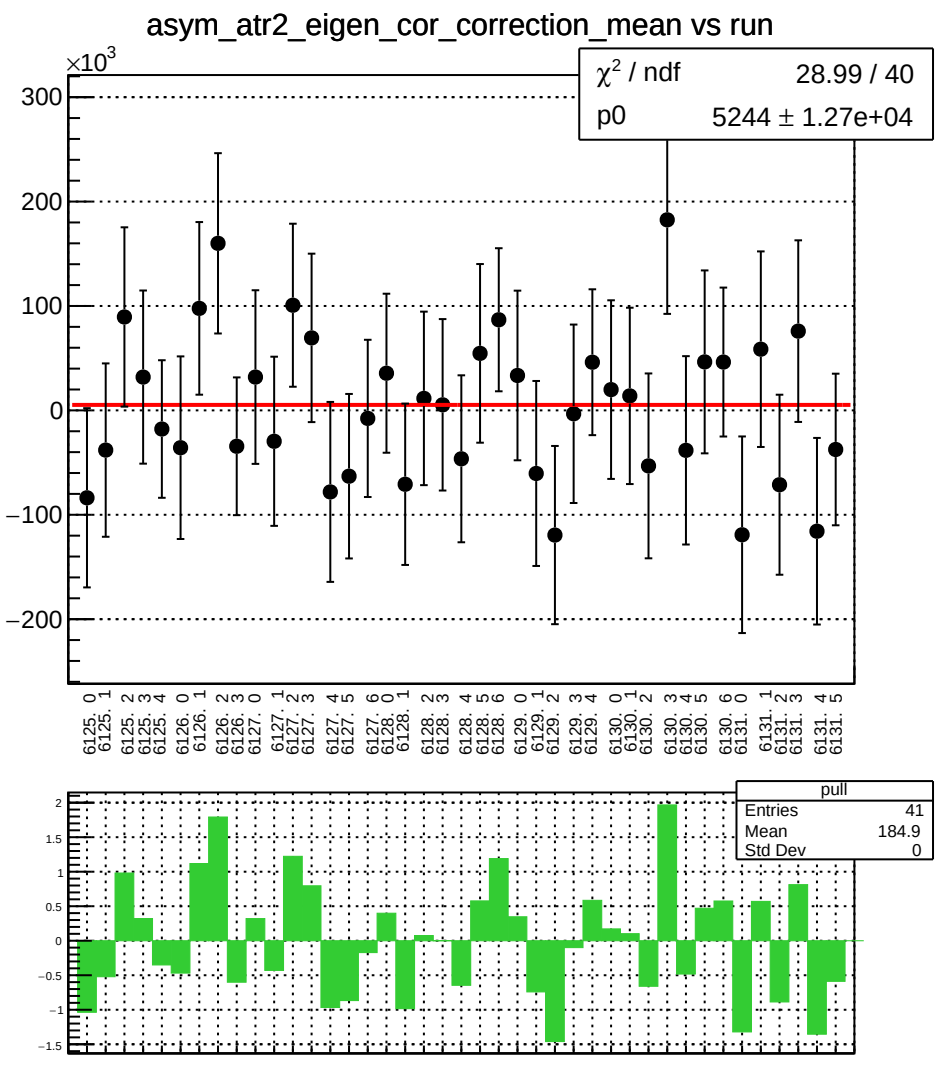

pull1D
Entries 41
Mean −0.005912
Std Dev 0.8409

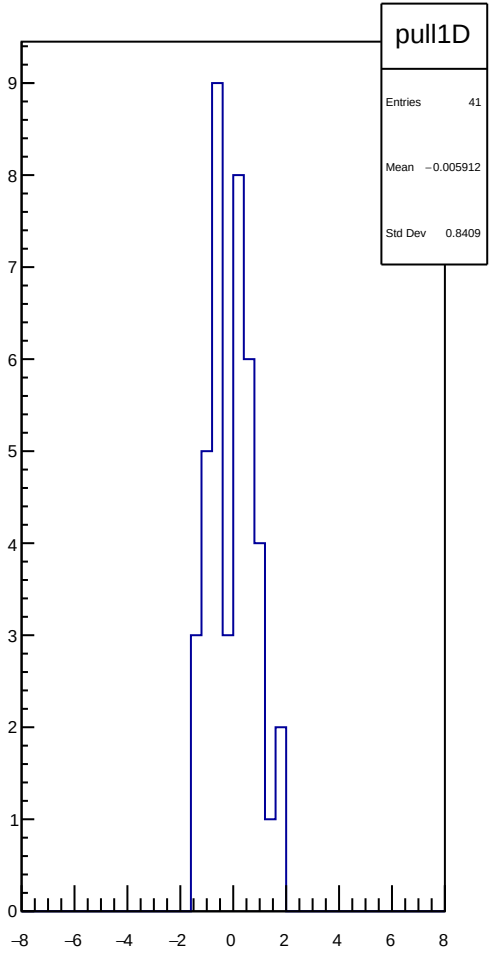

asym_atr2_cor_correction_rms vs run
χ² / ndf 1858 / 40
p0 8042 ± 8.978
9000
8500
8000
7500
7000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 36.9 / 40
p0 −150.3 ± 4064
pull
Entries 41
Mean −11.59
Std Dev 0


pull1D
Entries 41
Mean −0.01602
Std Dev 0.9486


eigen_cor_asym_atr2_rms vs run
χ² / ndf 44.04 / 40
p0 2577 ± 2.873
2640
2620
2600
2580
2560
2540
2520
2500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 28.99 / 40
p0 5244 ± 1.27e+04
300
200
100
0
−100
−200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 184.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.005912
Std Dev 0.8409
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
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6
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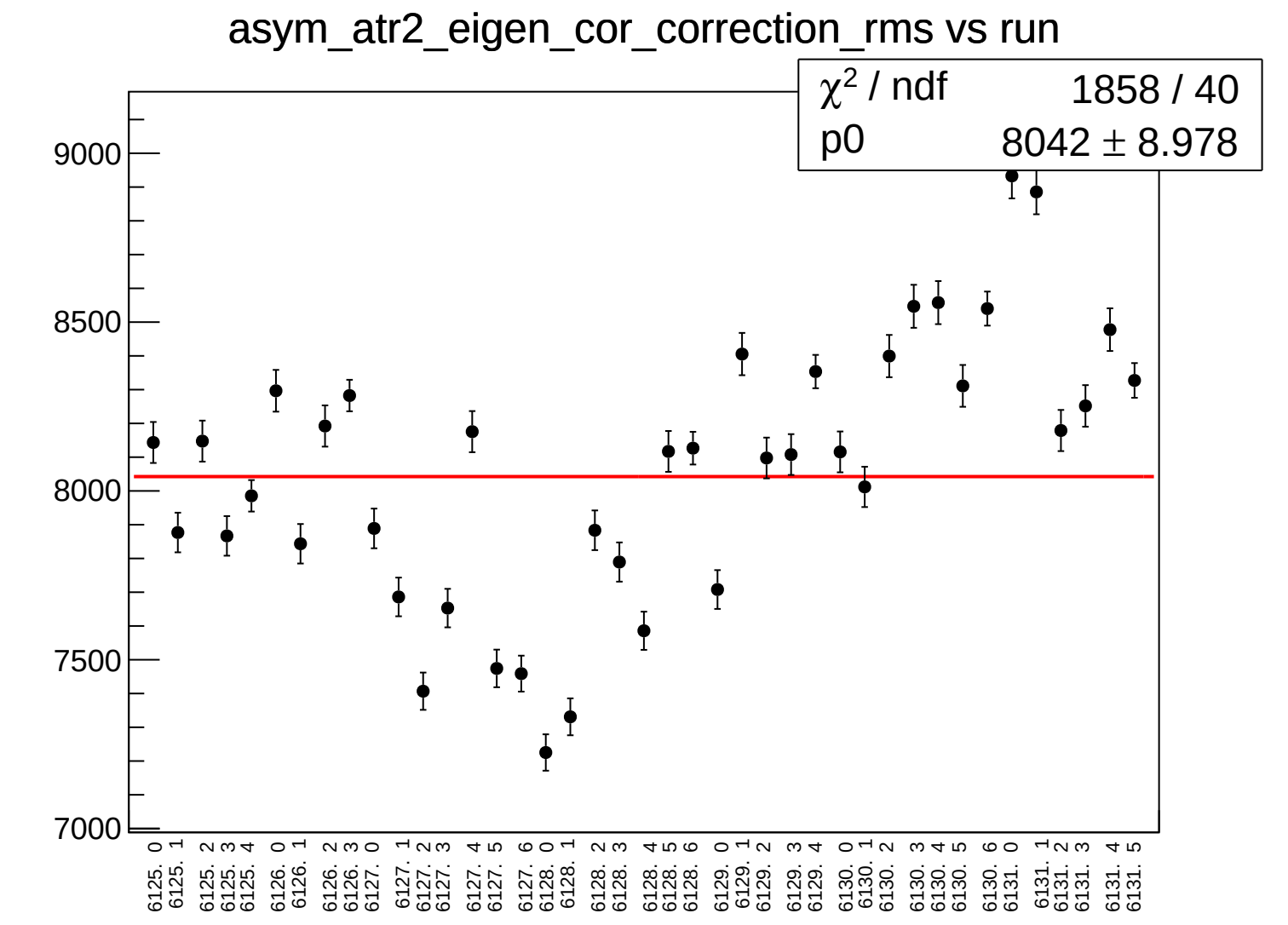
asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 1858 / 40
p0 8042 ± 8.978
9000
8500
8000
7500
7000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
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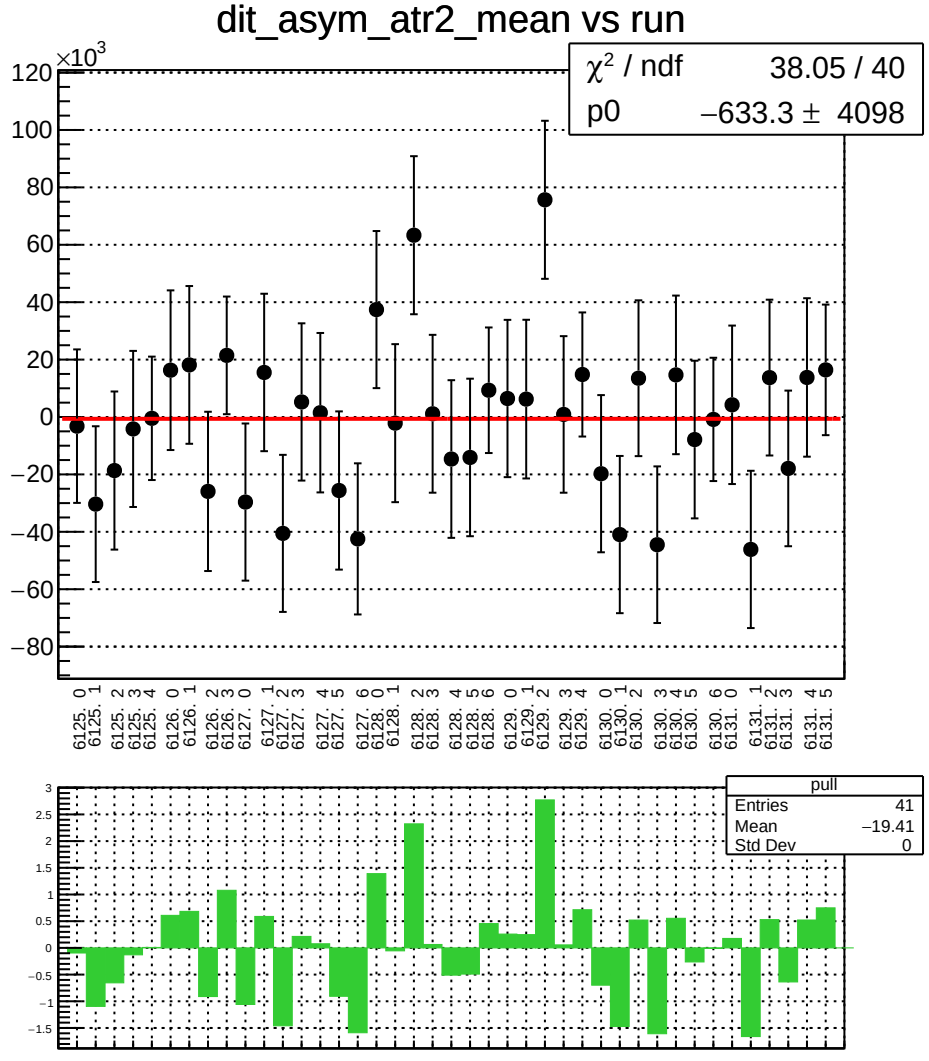
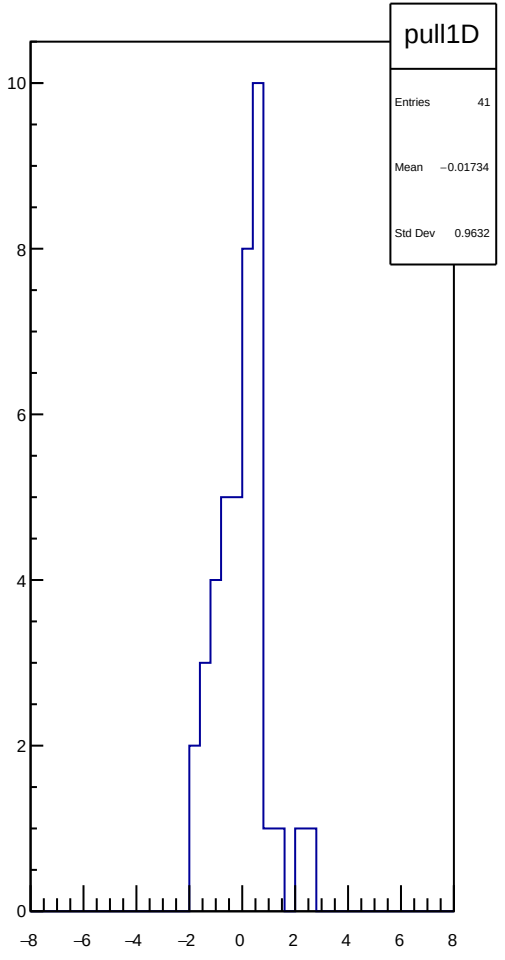
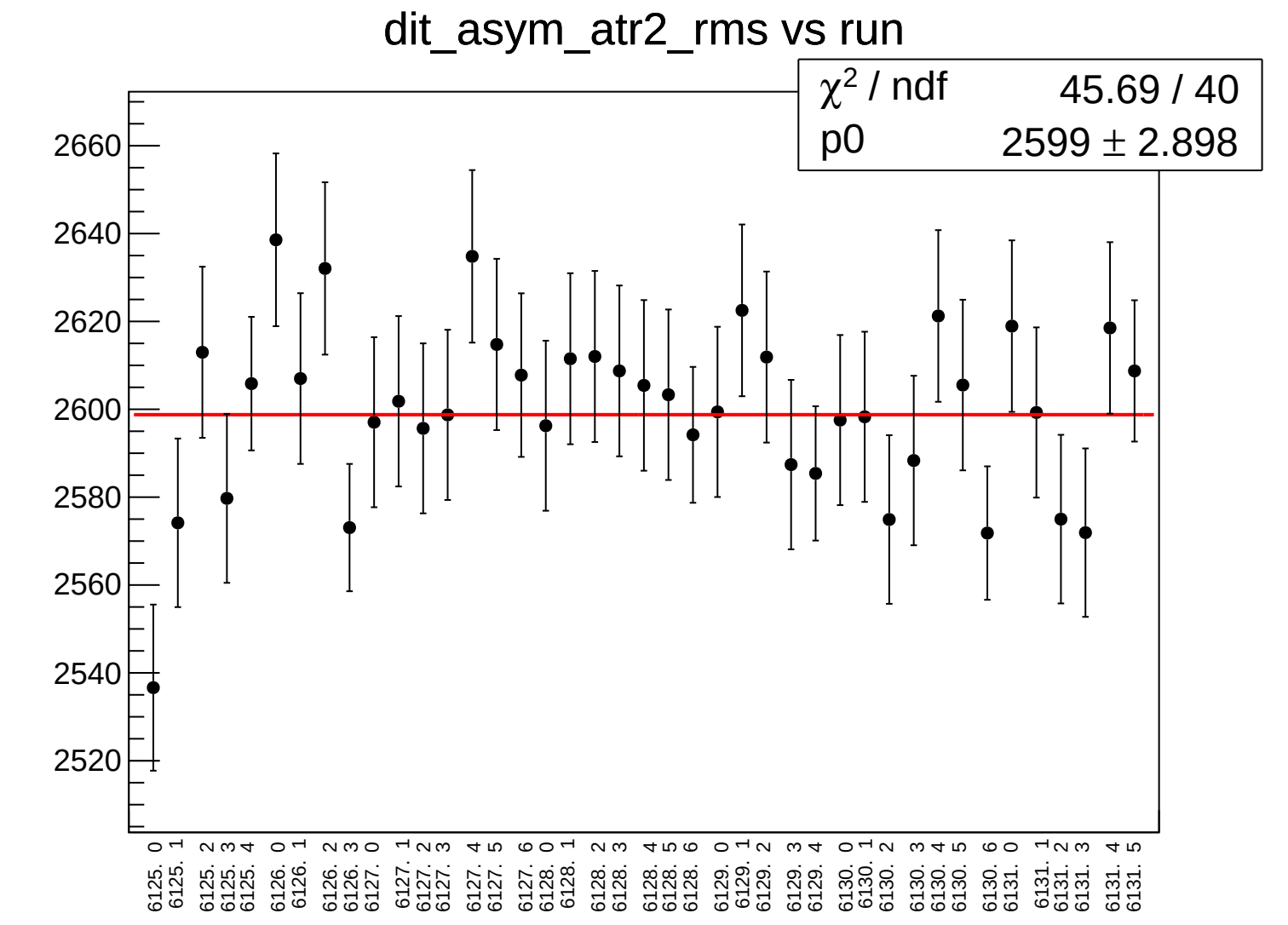
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


dit_asym_atr2_mean vs run
×10^3
χ² / ndf 38.05 / 40
p0 −633.3 ± 4098
pull
Entries 41
Mean −19.41
Std Dev 0


pull1D
Entries 41
Mean −0.01734
Std Dev 0.9632


dit_asym_atr2_rms vs run
χ² / ndf 45.69 / 40
p0 2599 ± 2.898
2660
2640
2620
2600
2580
2560
2540
2520
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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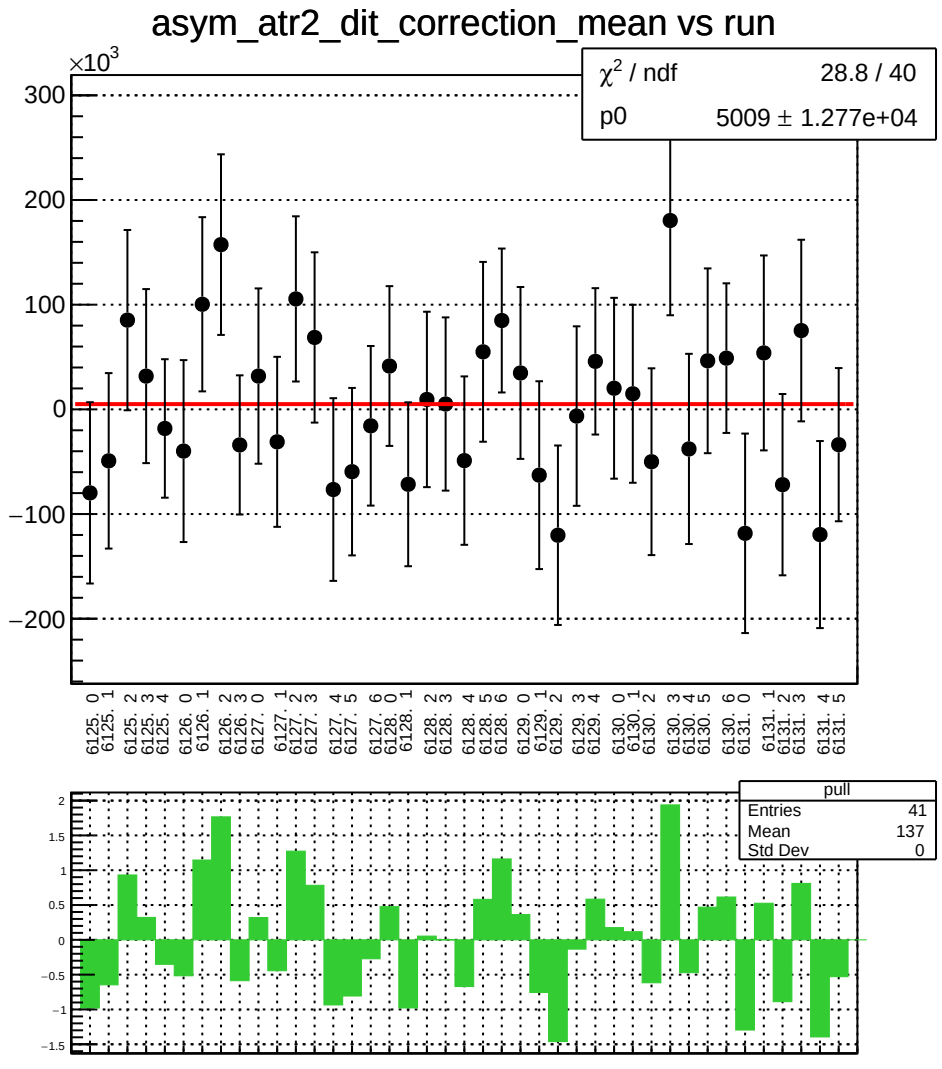
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 28.8 / 40
p0 5009 ± 1.277e+04
300
200
100
0
−100
−200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
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6128. 2
6128. 3
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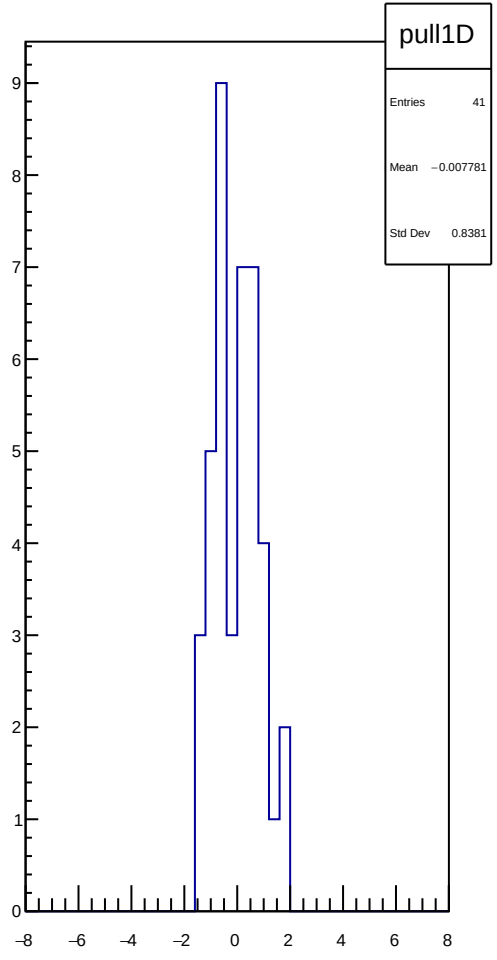
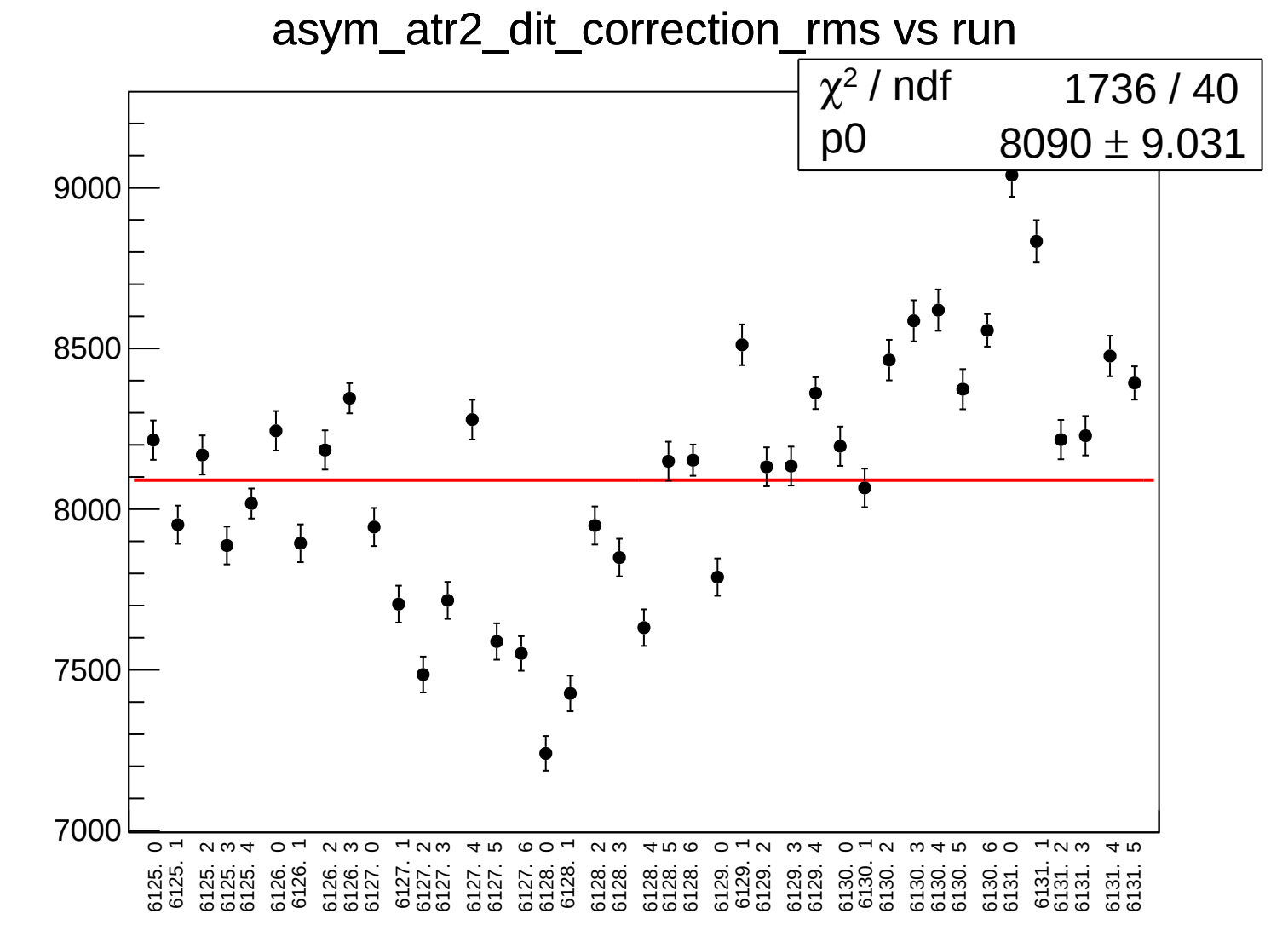
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 137
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.007781
Std Dev 0.8381
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr2_dit_correction_rms vs run
χ² / ndf 1736 / 40
p0 8090 ± 9.031
9000
8500
8000
7500
7000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
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6126. 3
6127. 0
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6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
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6131. 2
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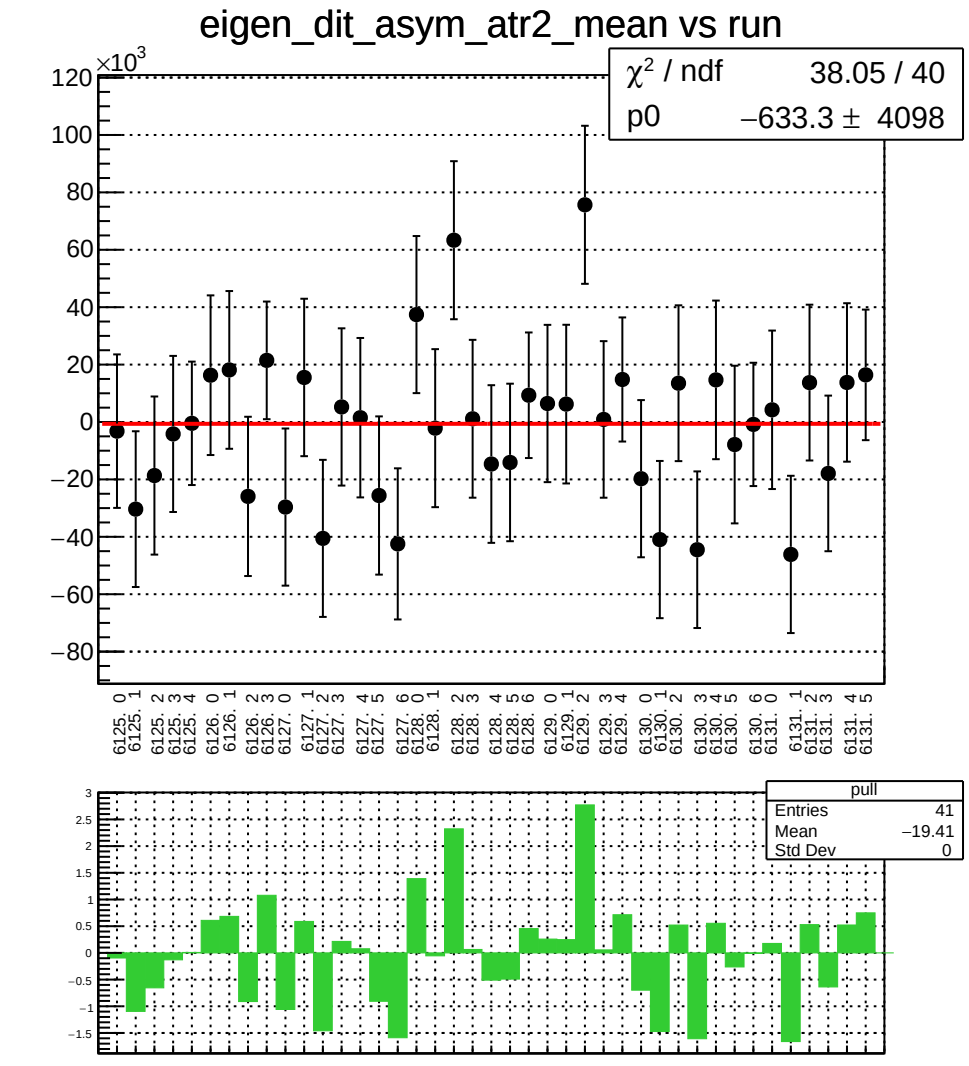
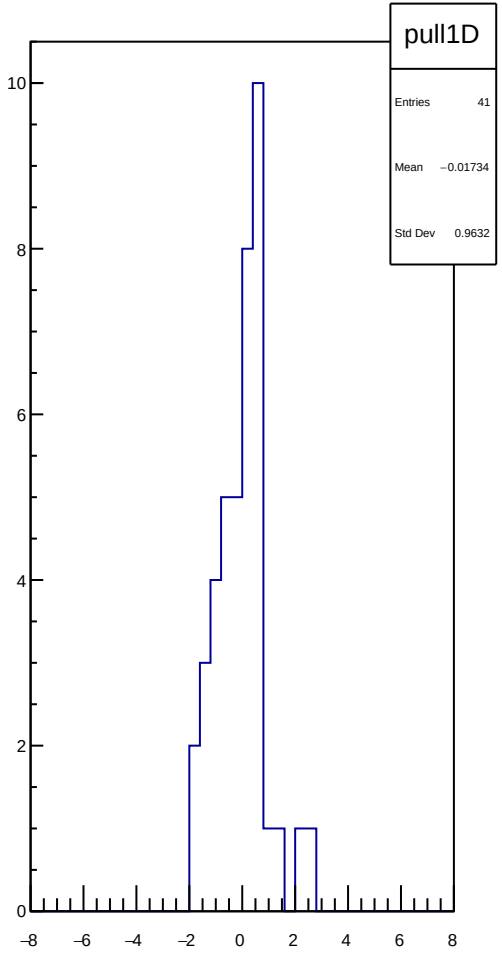
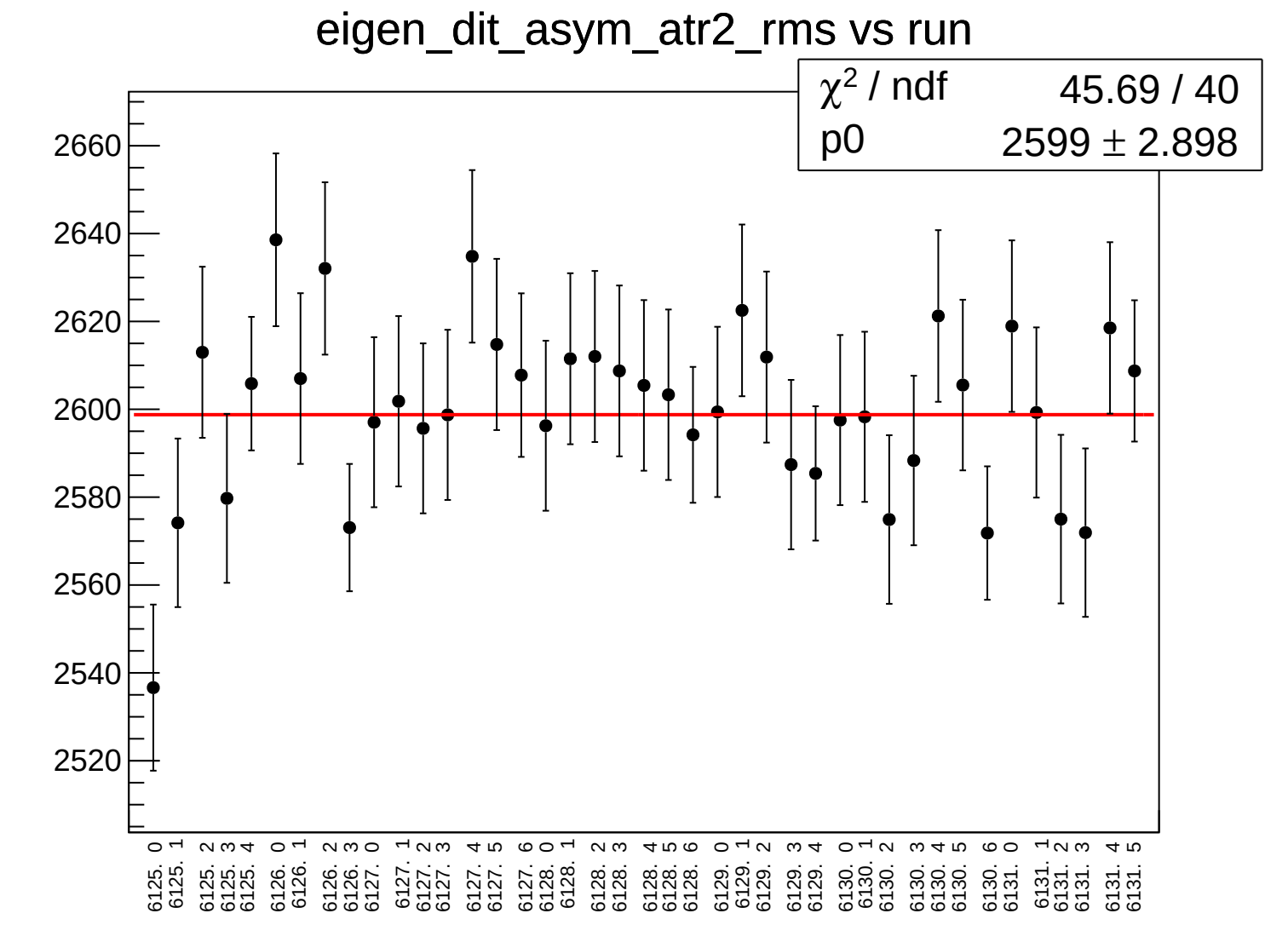
6131. 4
6131. 5


eigen_dit_asym_atr2_mean vs run
χ² / ndf 38.05 / 40
p0 −633.3 ± 4098
×10³
pull
Entries 41
Mean −19.41
Std Dev 0


pull1D
Entries 41
Mean −0.01734
Std Dev 0.9632


eigen_dit_asym_atr2_rms vs run
χ² / ndf 45.69 / 40
p0 2599 ± 2.898
2660
2640
2620
2600
2580
2560
2540
2520
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6127. 6
6128. 0
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6129. 0
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6130. 2
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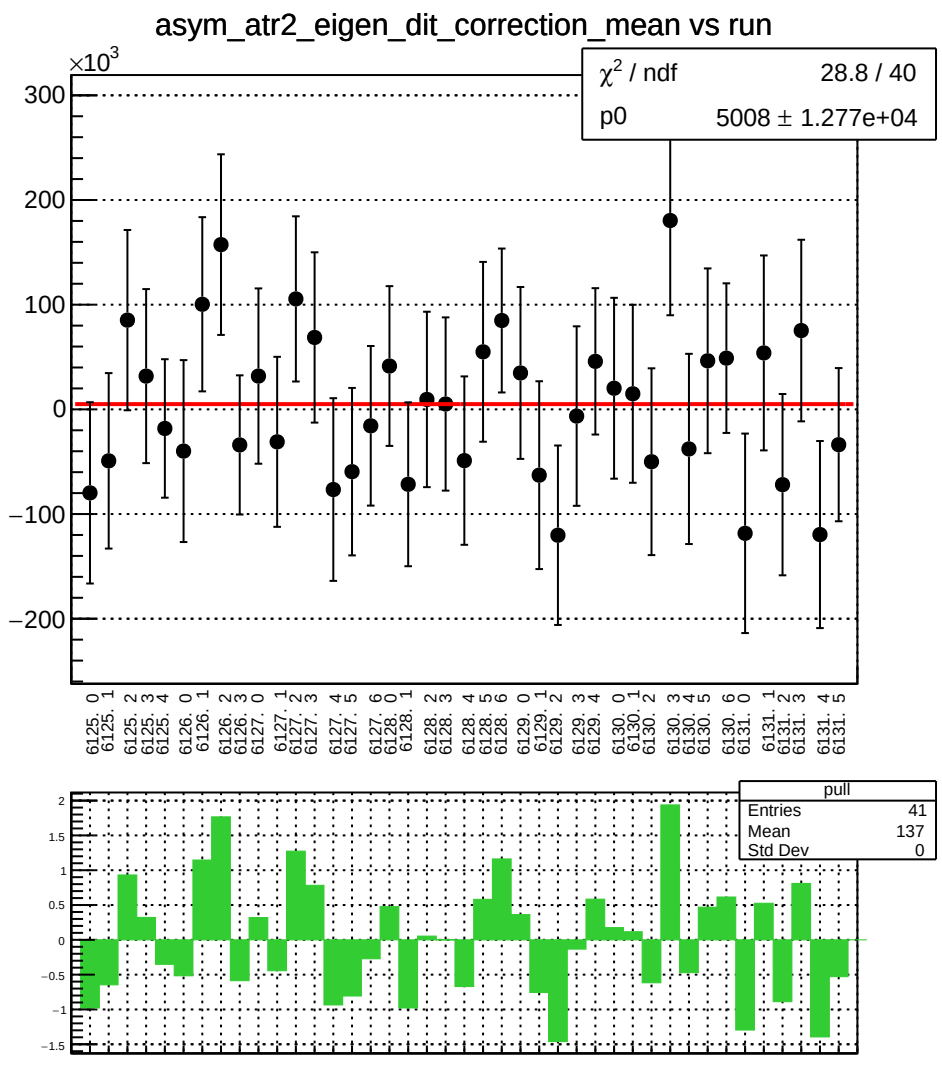
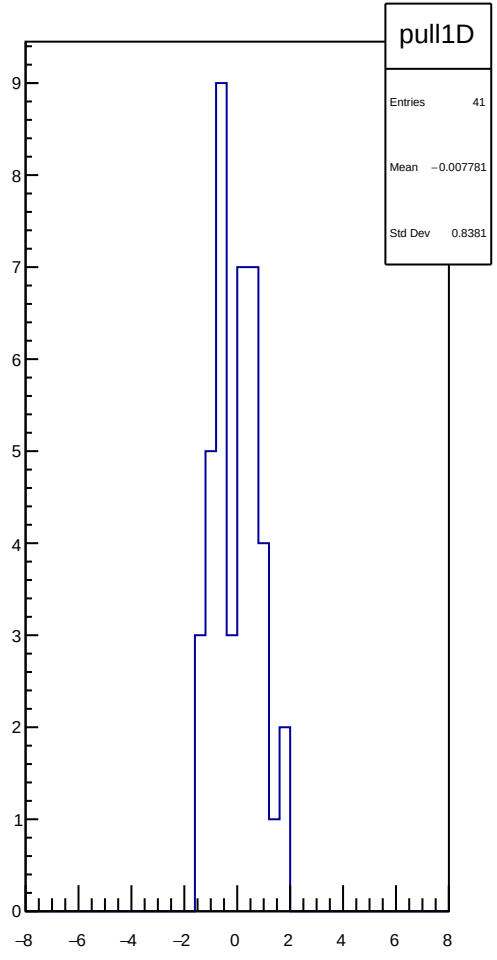
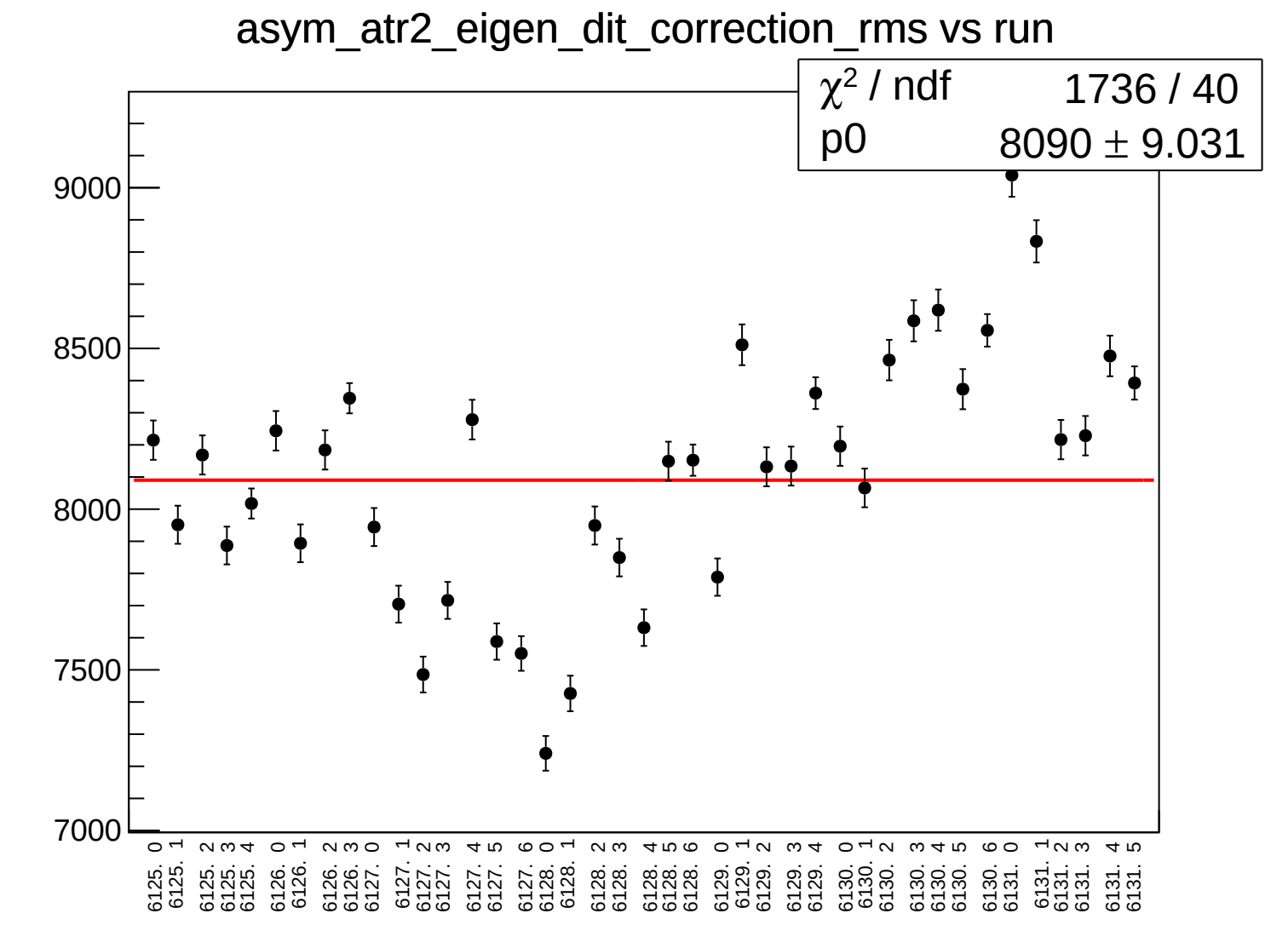
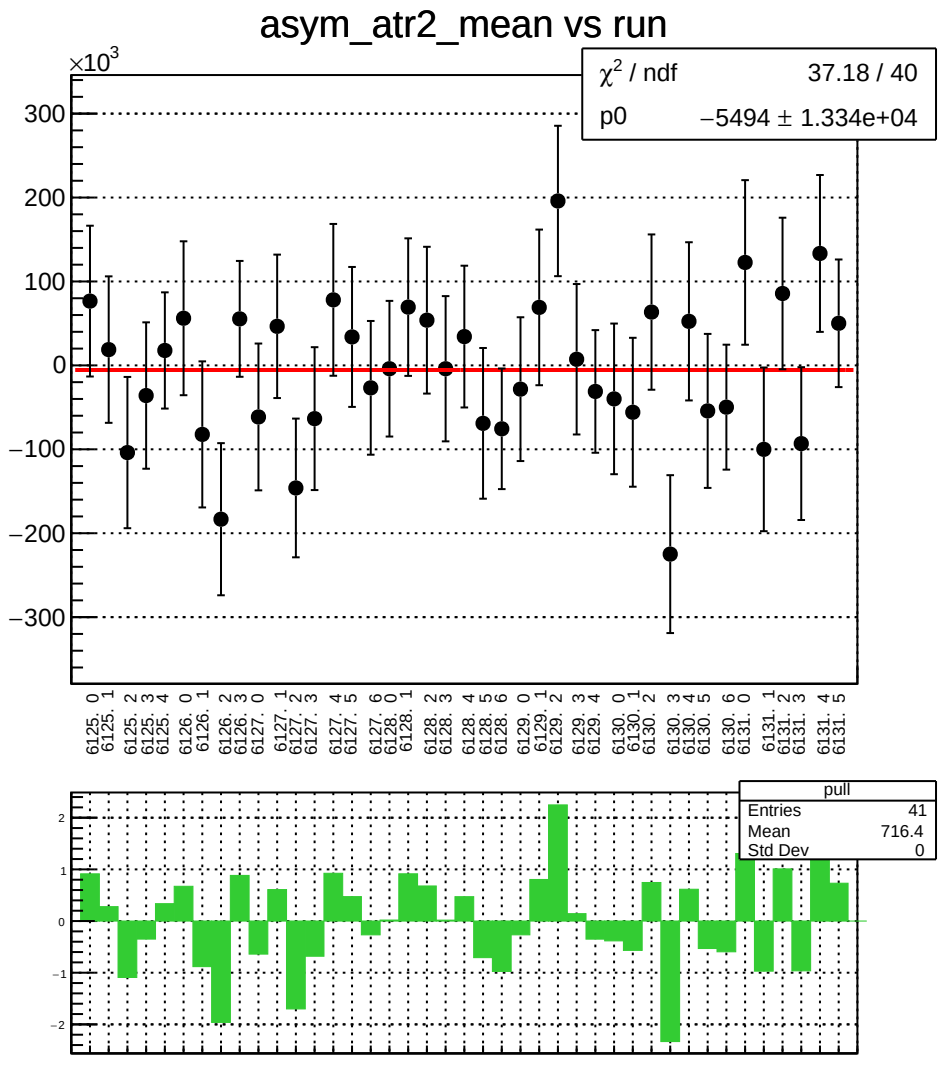
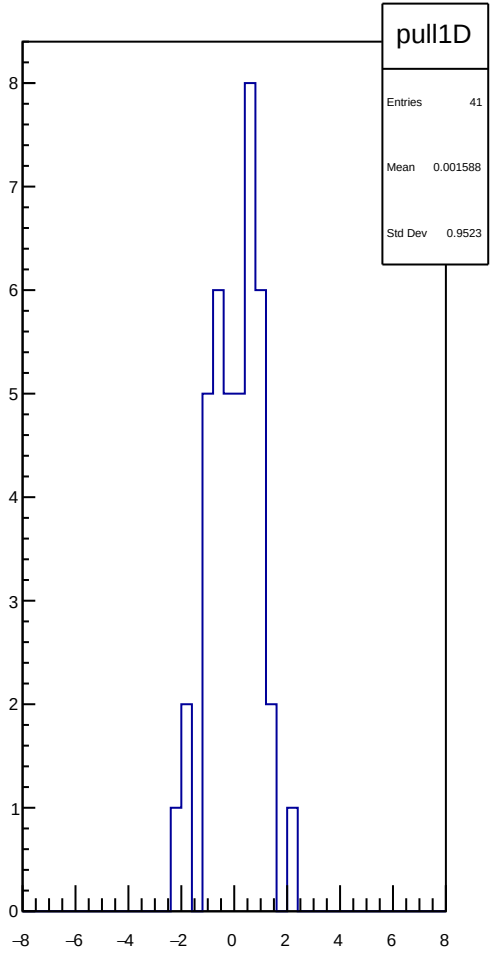
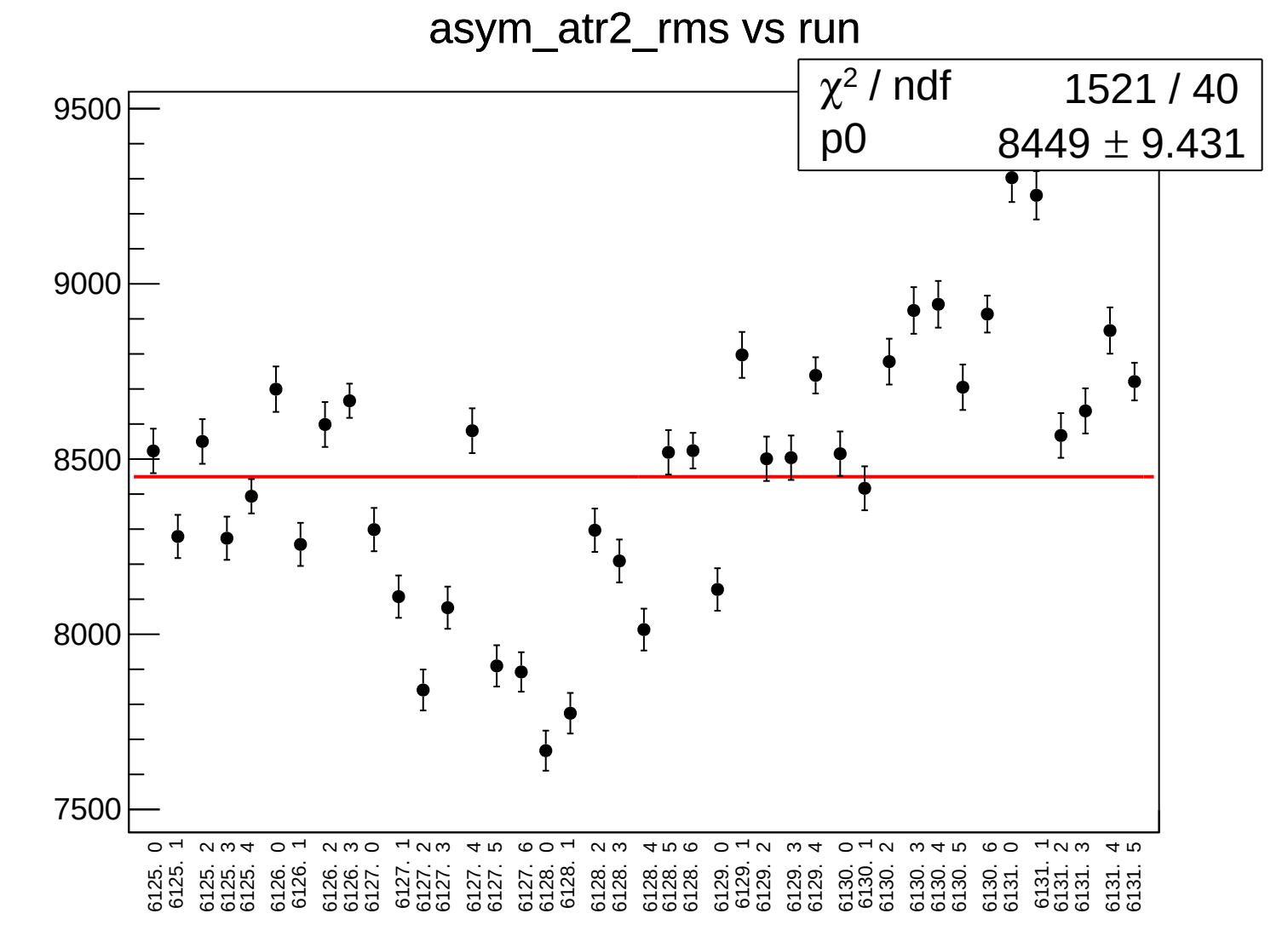

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 28.8 / 40
p0 5008 ± 1.277e+04
300
200
100
0
−100
−200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 137
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

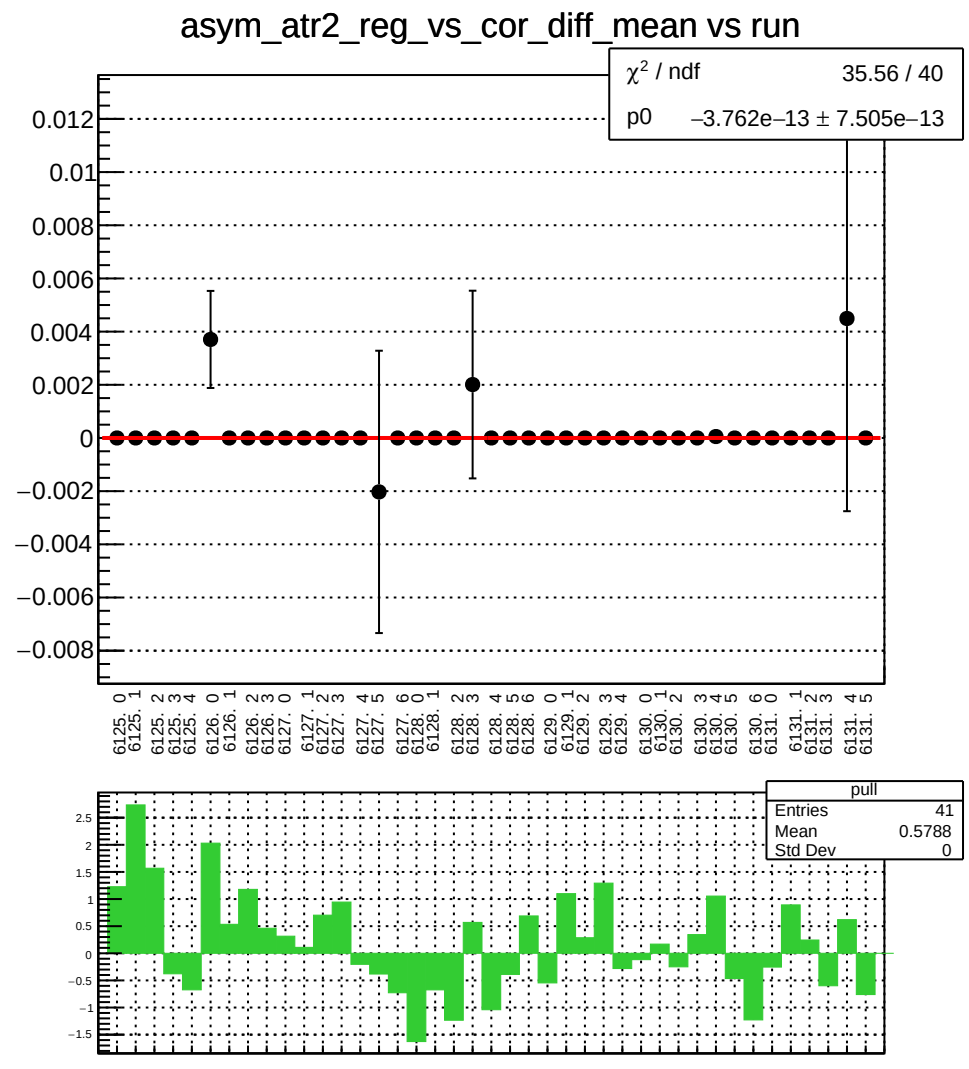

pull1D
Entries 41
Mean −0.007781
Std Dev 0.8381
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

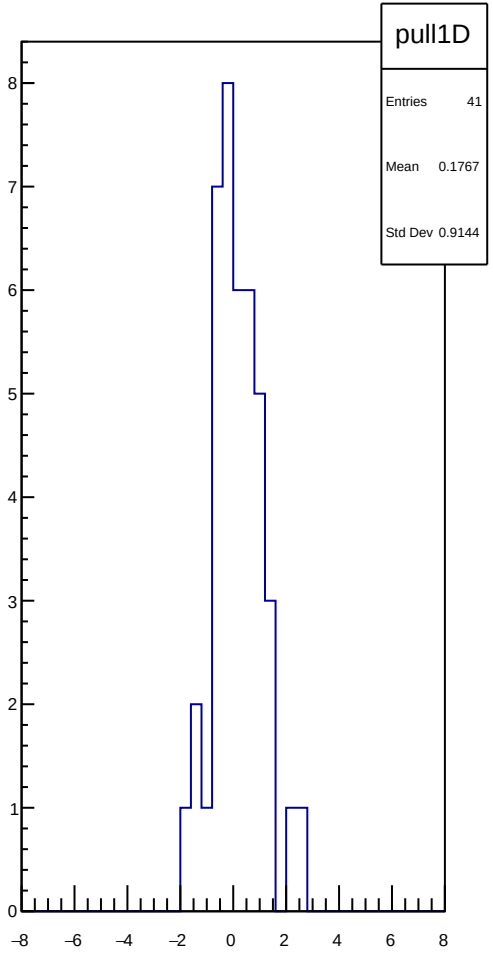

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 1736 / 40
p0 8090 ± 9.031
9000
8500
8000
7500
7000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

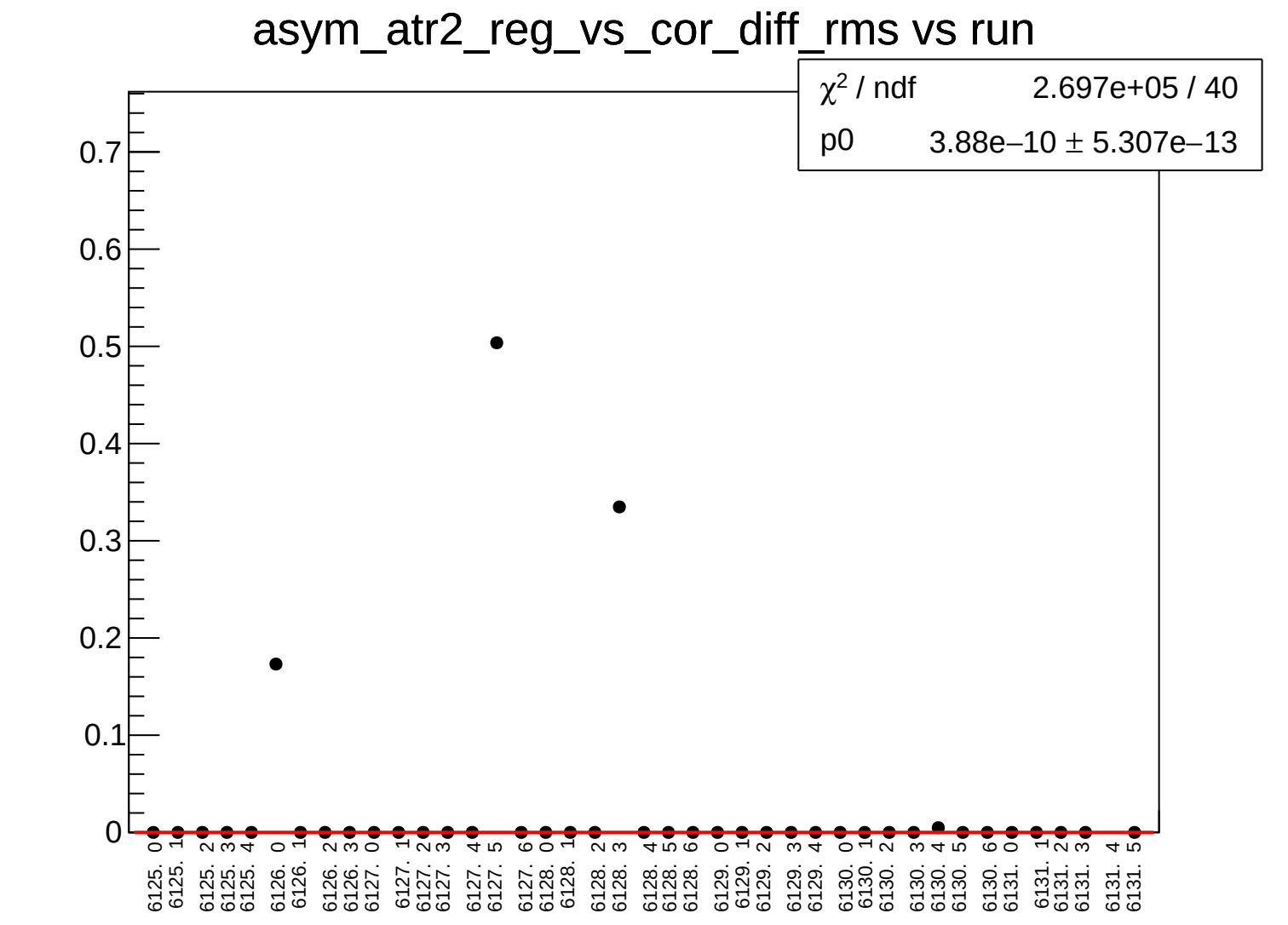

asym_atr2_mean vs run
×10^3
χ² / ndf 37.18 / 40
p0 −5494 ± 1.334e+04
300
200
100
0
−100
−200
−300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 716.4
Std Dev 0
2
1
0
−1
−2

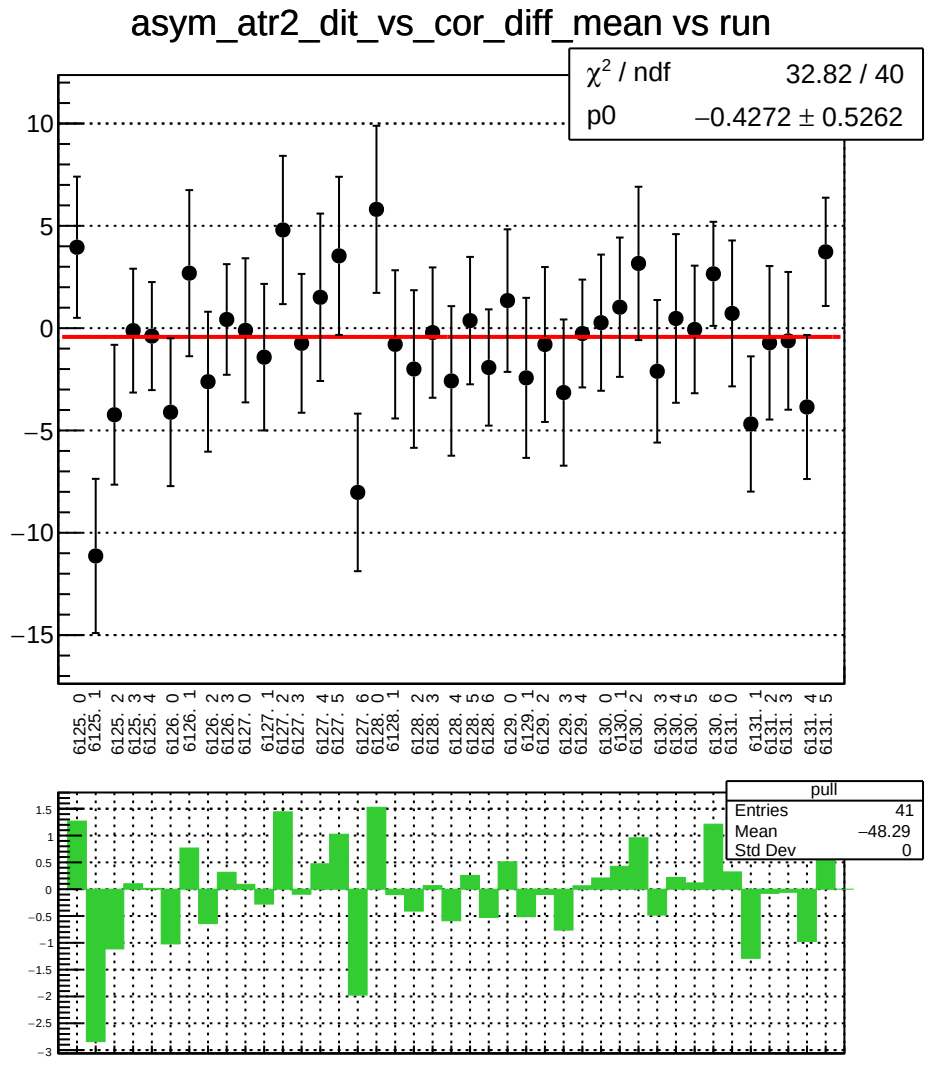

pull1D
Entries 41
Mean 0.001588
Std Dev 0.9523
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

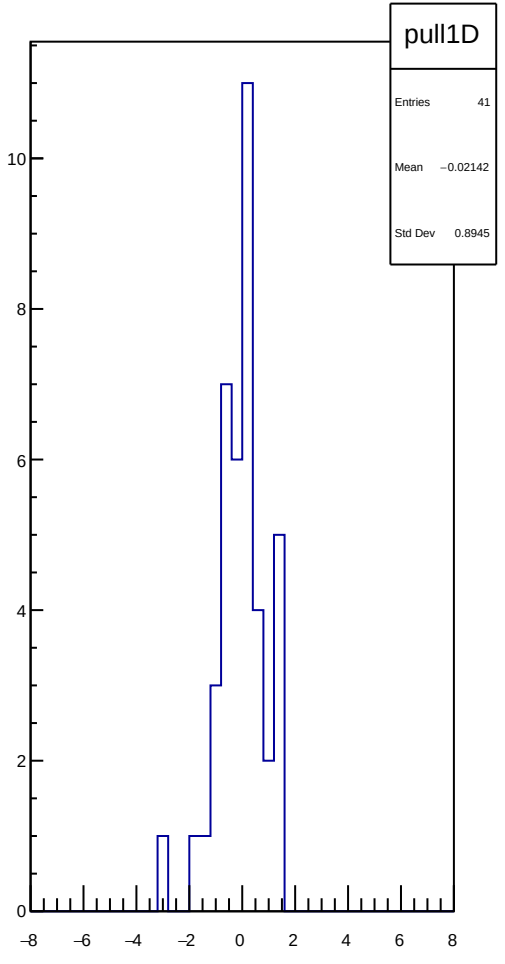

asym_atr2_rms vs run
χ² / ndf 1521 / 40
p0 8449 ± 9.431
9500
9000
8500
8000
7500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

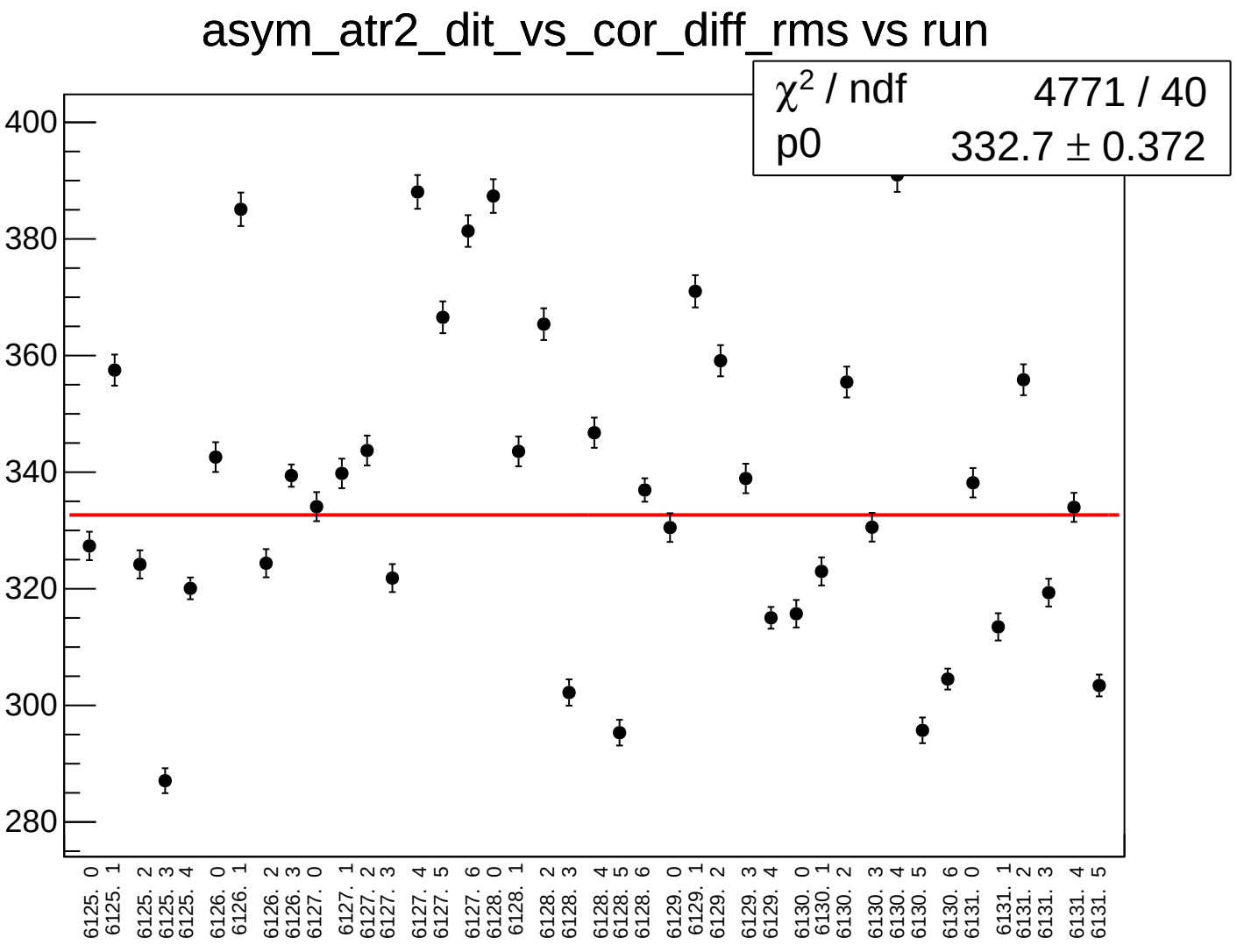

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 35.56 / 40
p0 −3.762e−13 ± 7.505e−13
0.012
0.01
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 0.5788
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

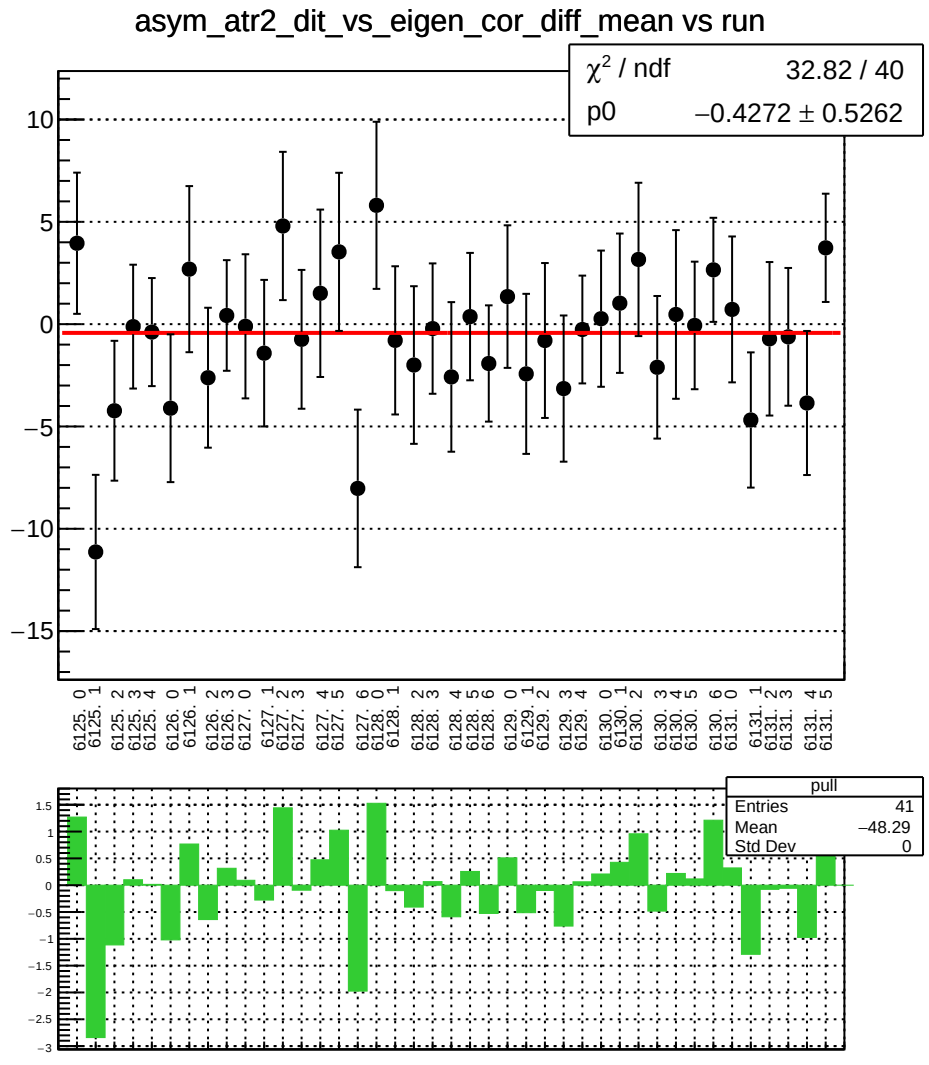

pull1D
Entries 41
Mean 0.1767
Std Dev 0.9144
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

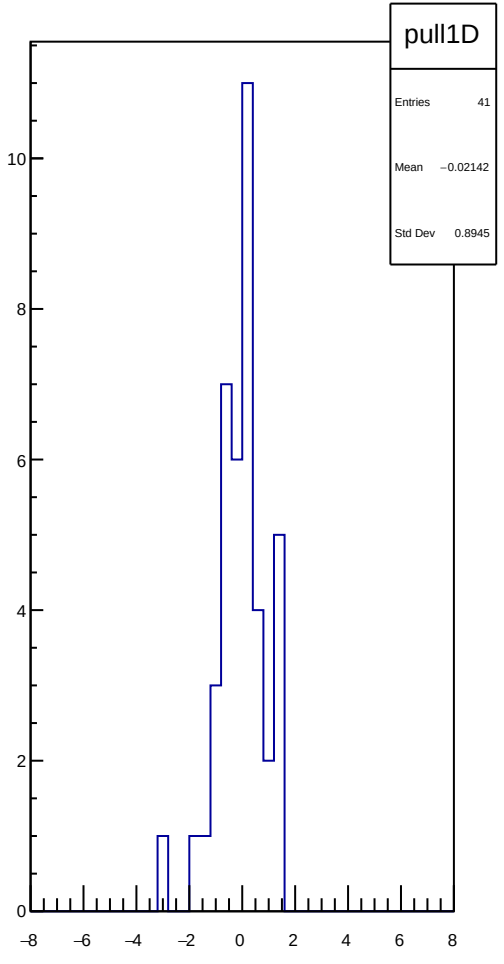

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 2.697e+05 / 40
p0 3.88e−10 ± 5.307e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

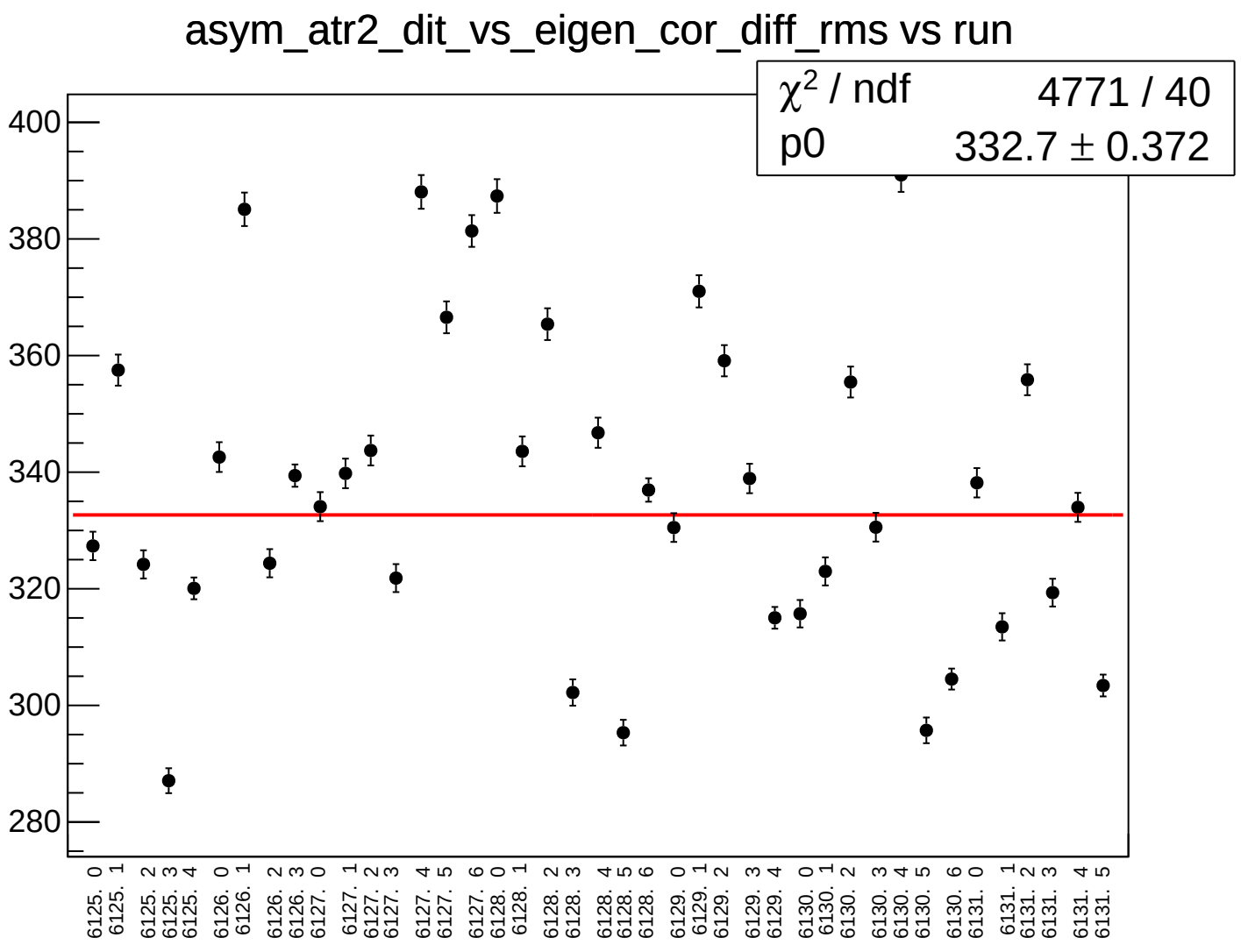

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 32.82 / 40
p0 −0.4272 ± 0.5262
pull
Entries 41
Mean −48.29
Std Dev 0

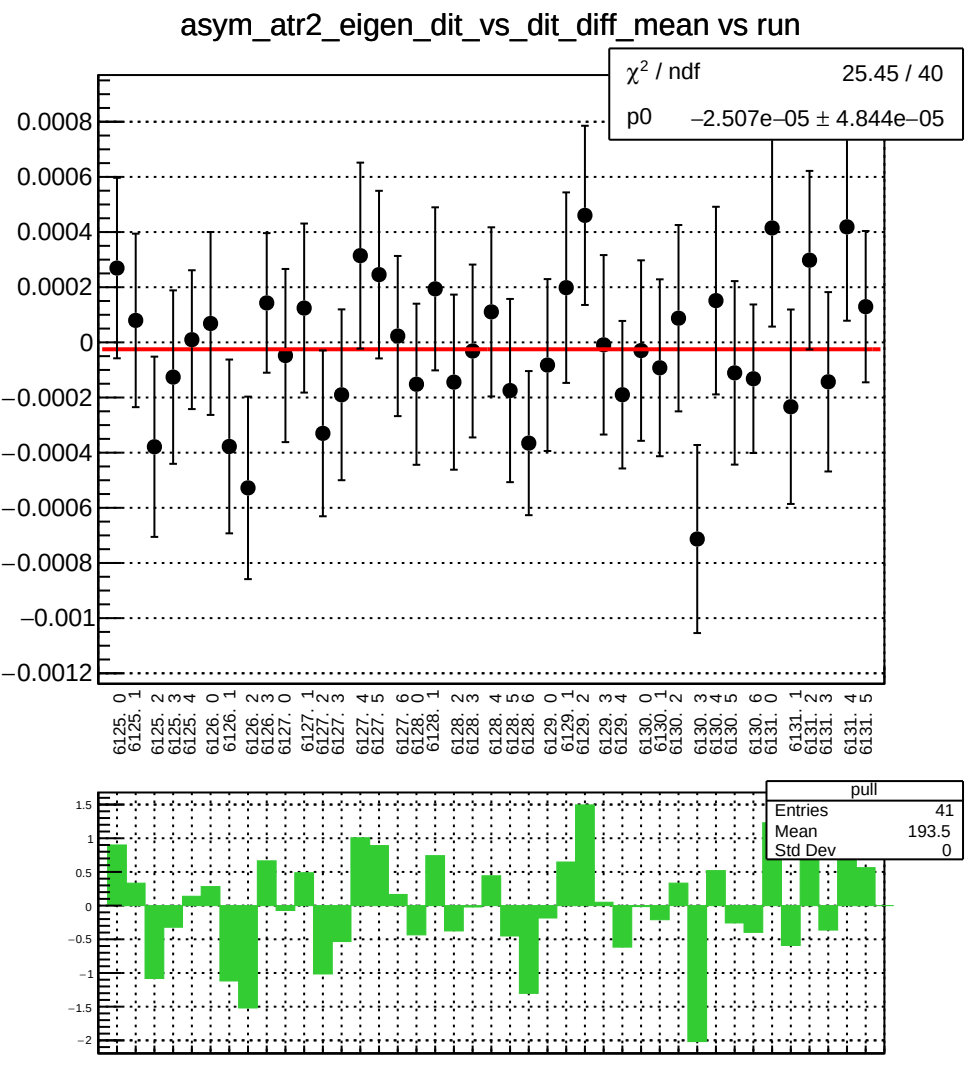

pull1D
Entries 41
Mean −0.02142
Std Dev 0.8945

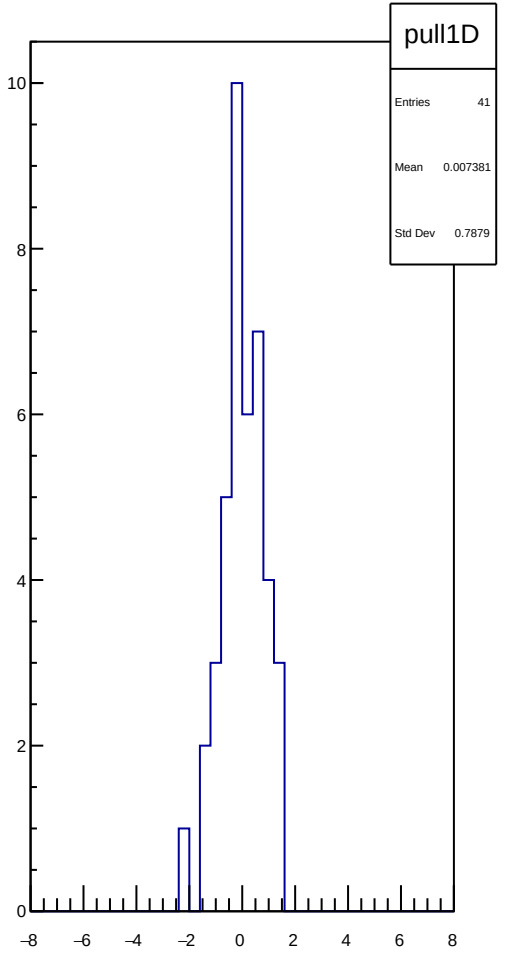

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 4771 / 40
p0 332.7 ± 0.372
400
380
360
340
320
300
280
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

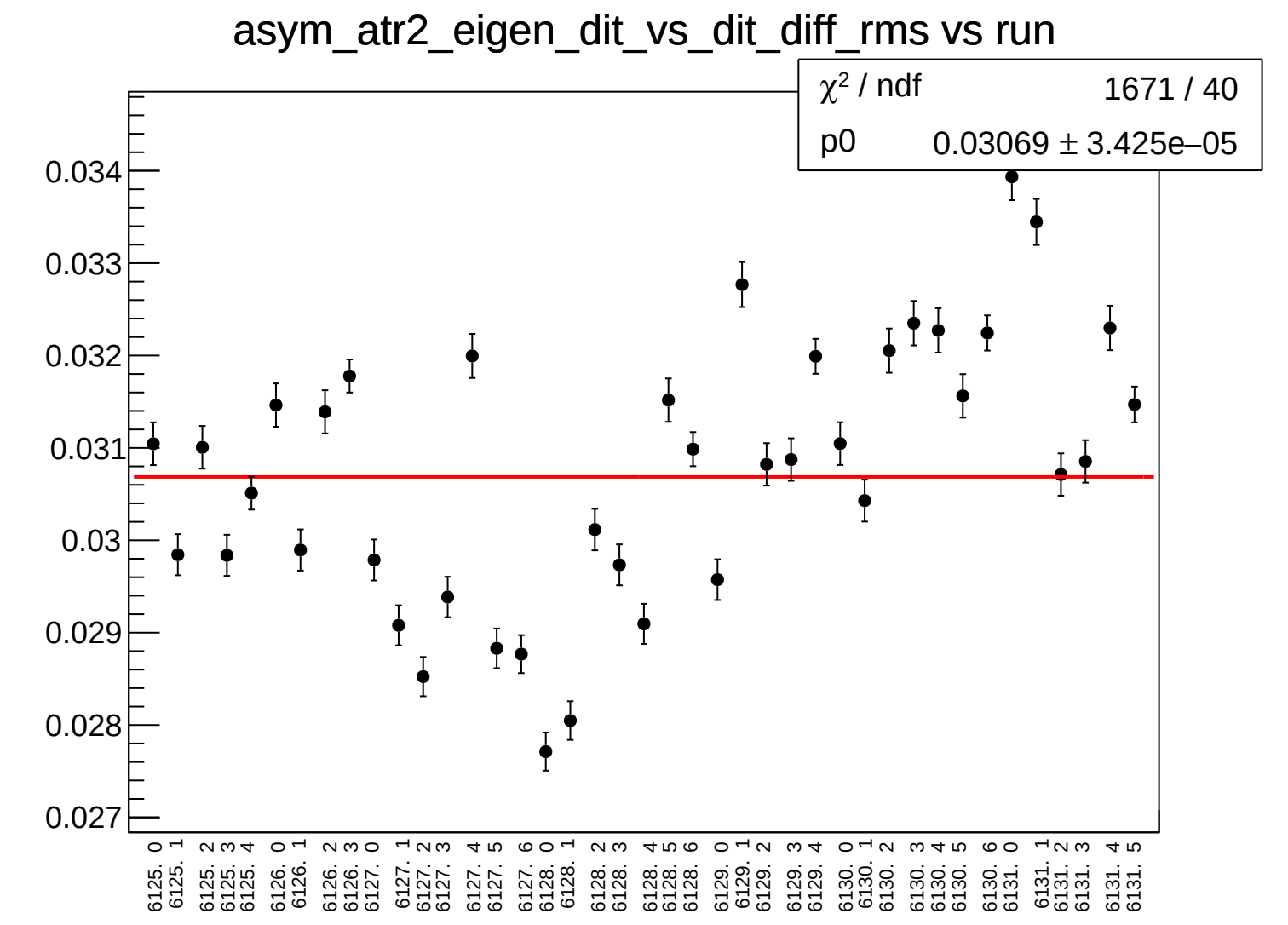

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.82 / 40
p0 −0.4272 ± 0.5262
pull
Entries 41
Mean −48.29
Std Dev 0

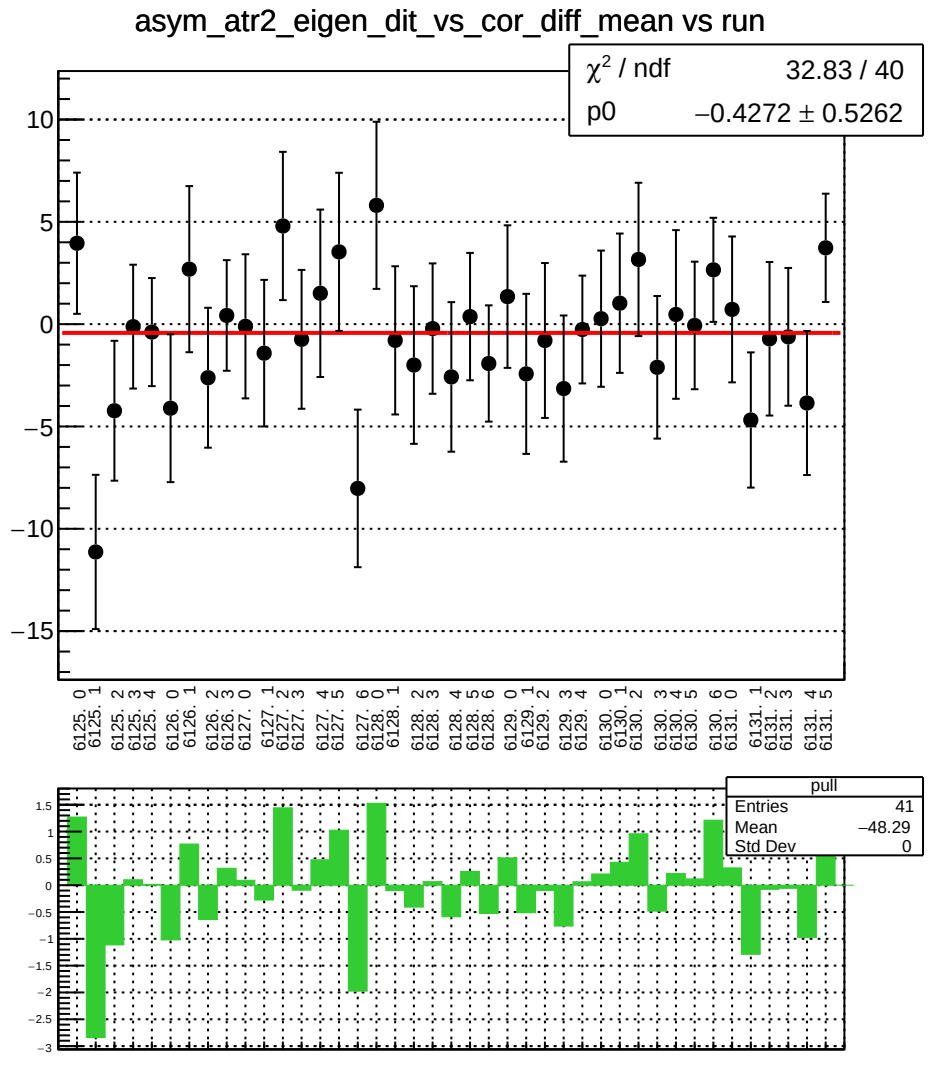

pull1D
Entries 41
Mean −0.02142
Std Dev 0.8945

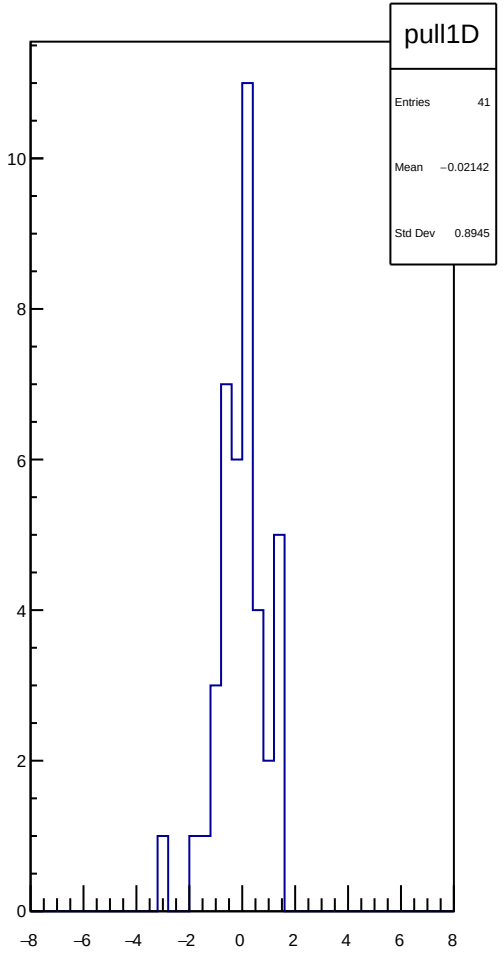

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4771 / 40
p0 332.7 ± 0.372
400
380
360
340
320
300
280
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

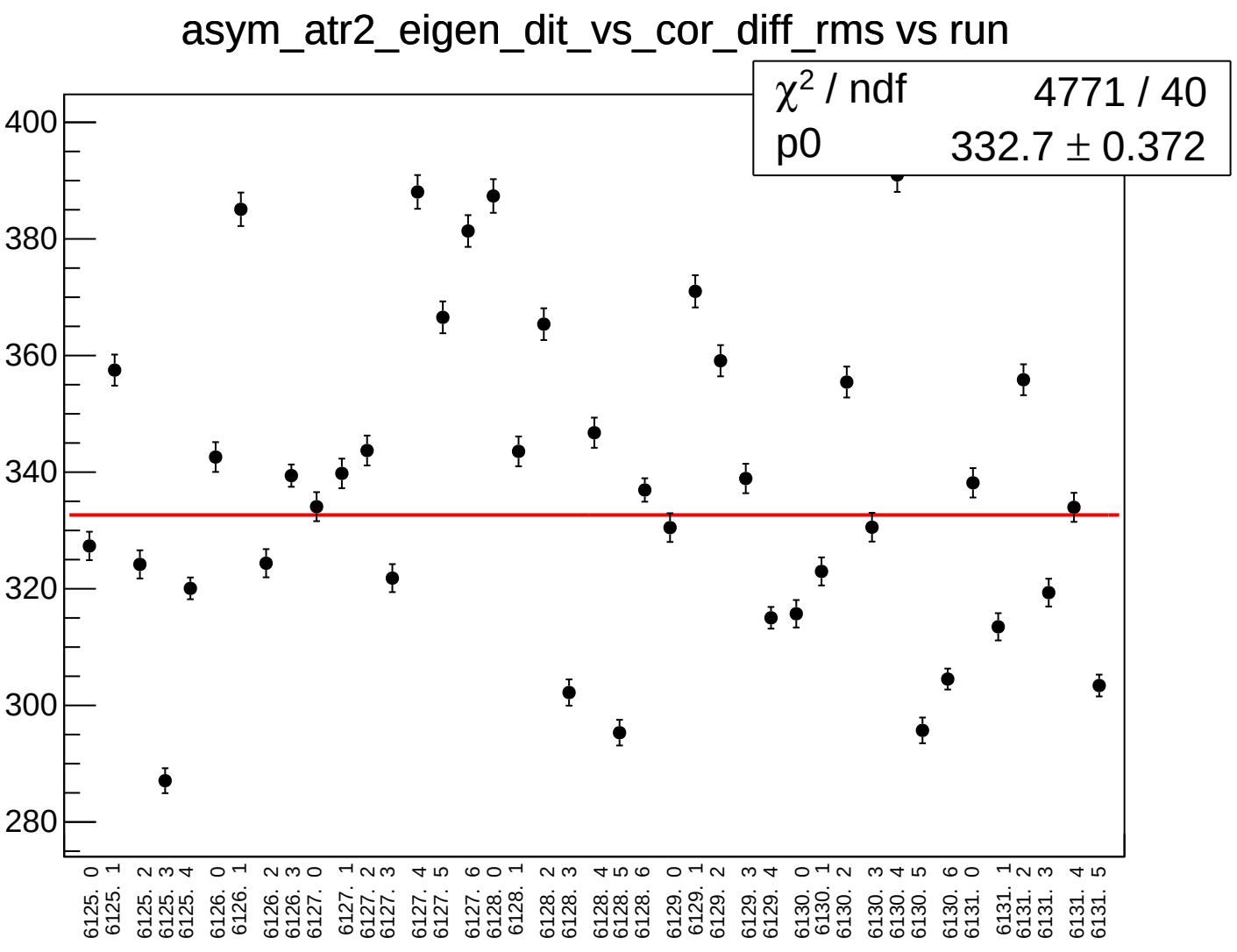

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 25.45 / 40
p0 −2.507e−05 ± 4.844e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 193.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

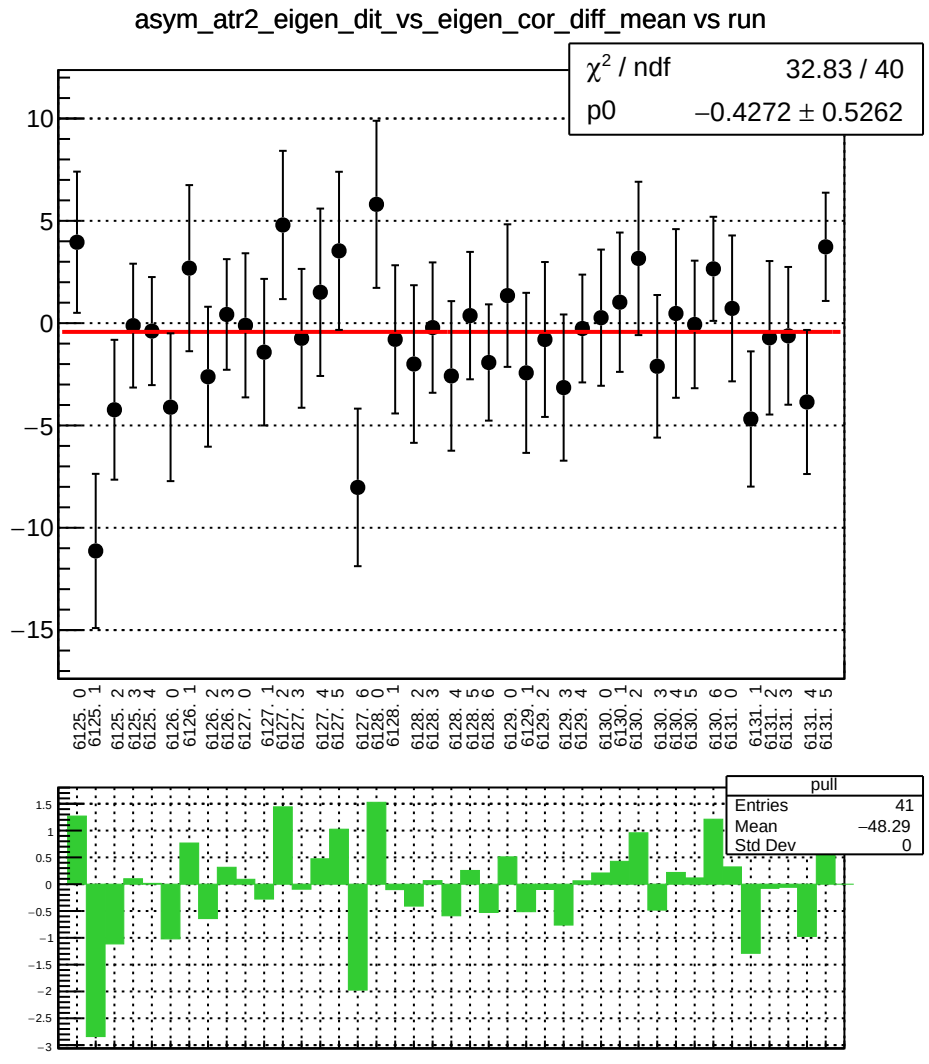

pull1D
Entries 41
Mean 0.007381
Std Dev 0.7879
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

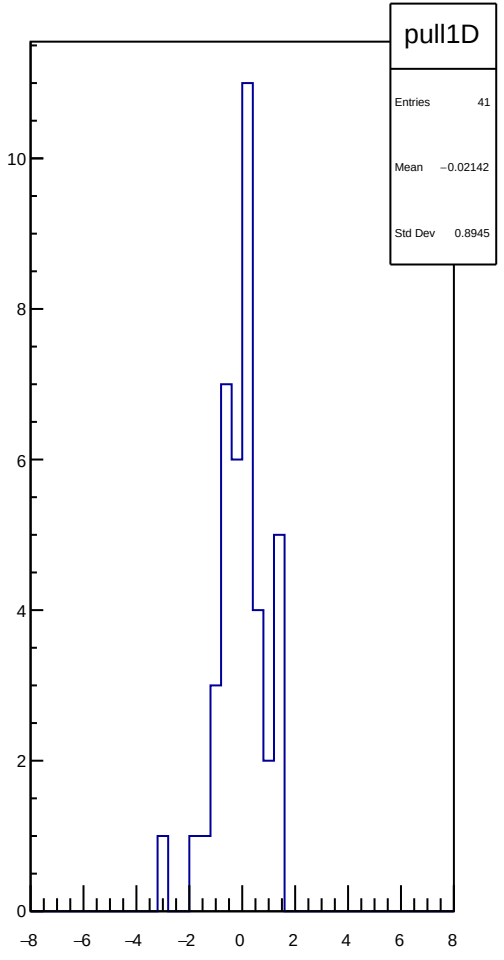

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1671 / 40
p0 0.03069 ± 3.425e−05
0.034
0.033
0.032
0.031
0.03
0.029
0.028
0.027
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

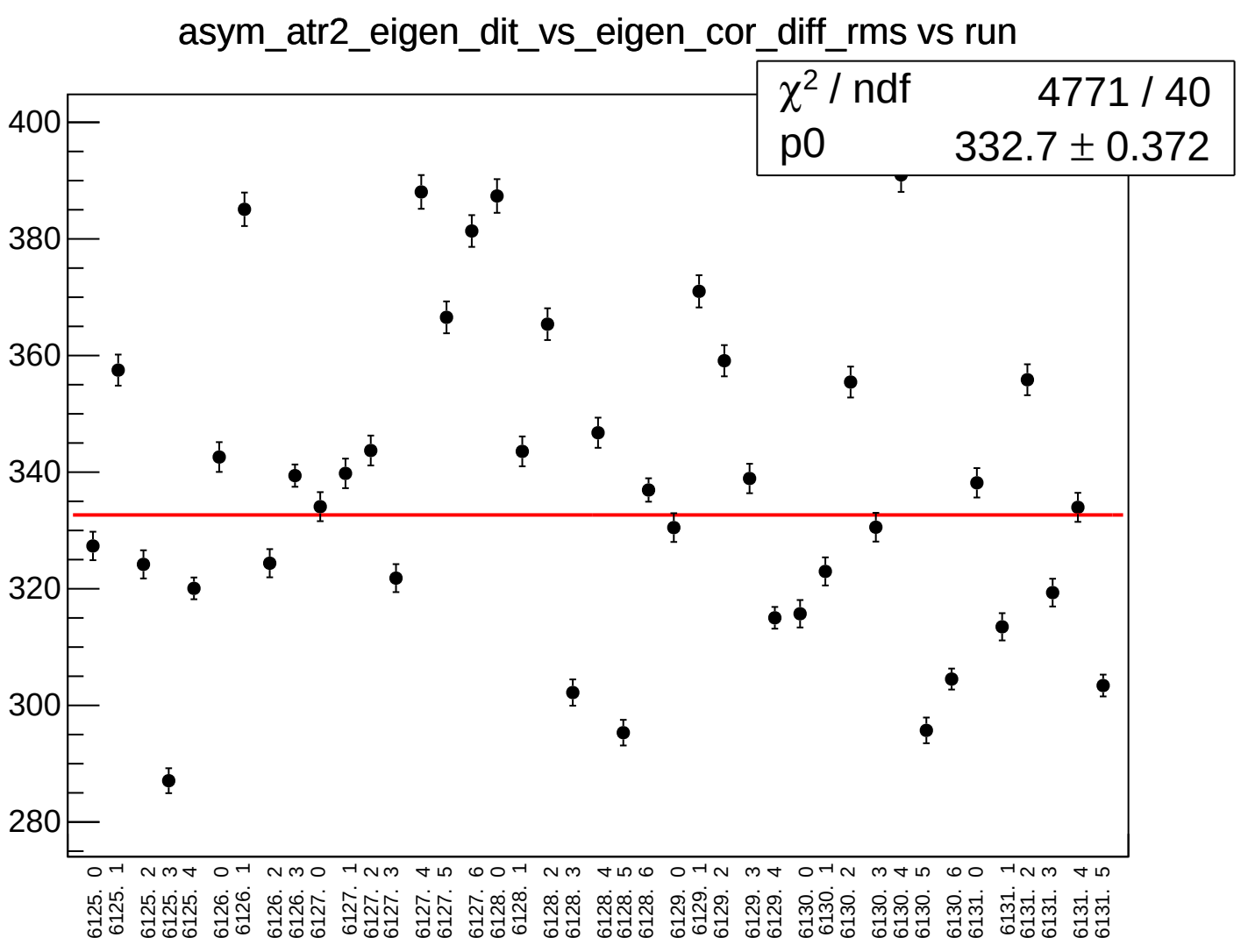

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 32.83 / 40
p0 −0.4272 ± 0.5262
pull
Entries 41
Mean −48.29
Std Dev 0

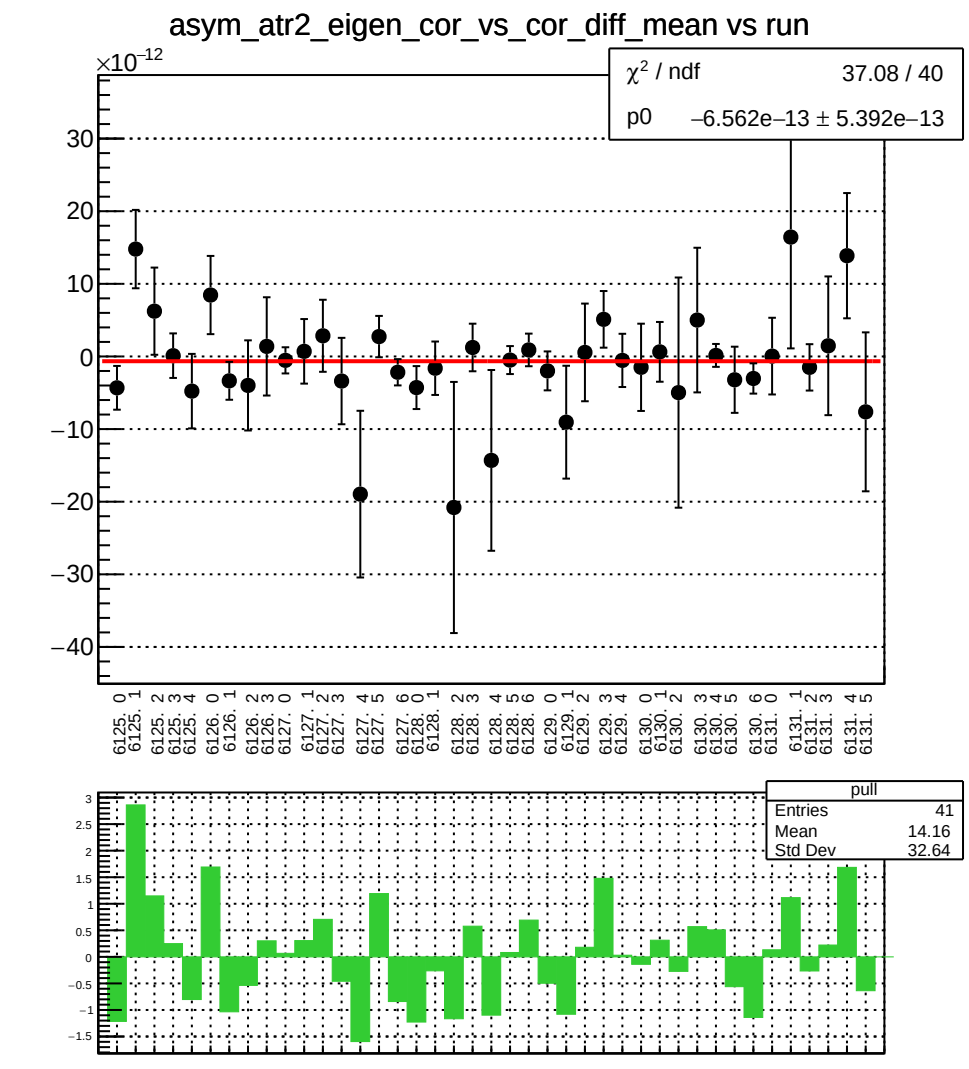

pull1D
Entries 41
Mean −0.02142
Std Dev 0.8945

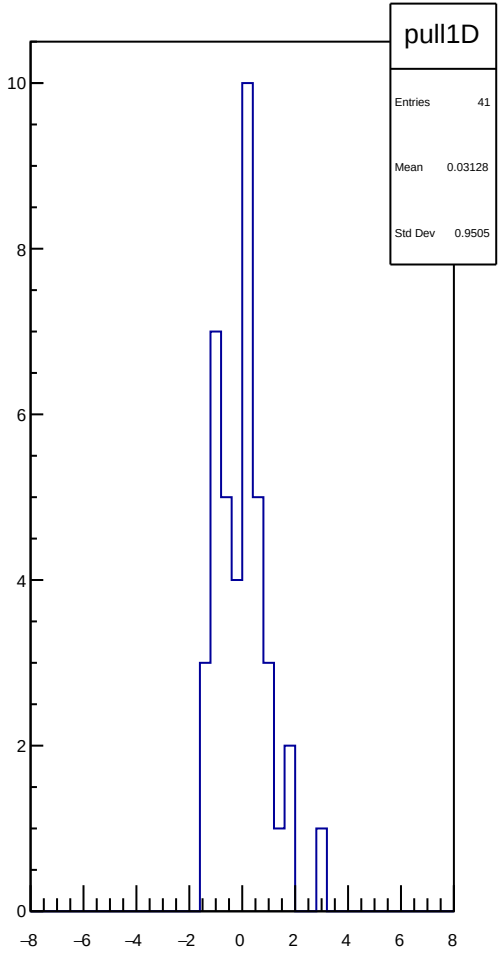

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4771 / 40
p0 332.7 ± 0.372
400
380
360
340
320
300
280
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

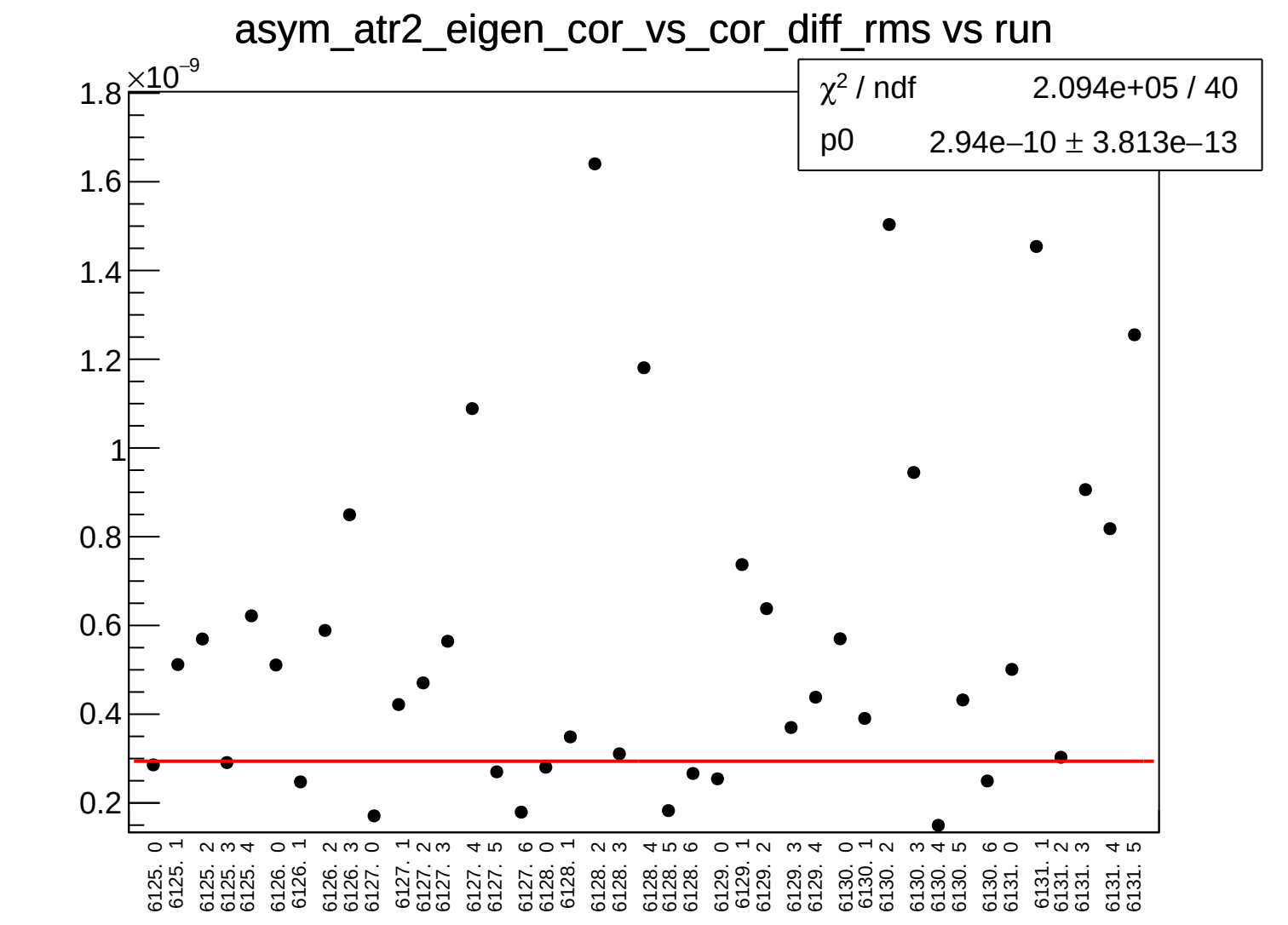

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.83 / 40
p0 −0.4272 ± 0.5262
pull
Entries 41
Mean −48.29
Std Dev 0

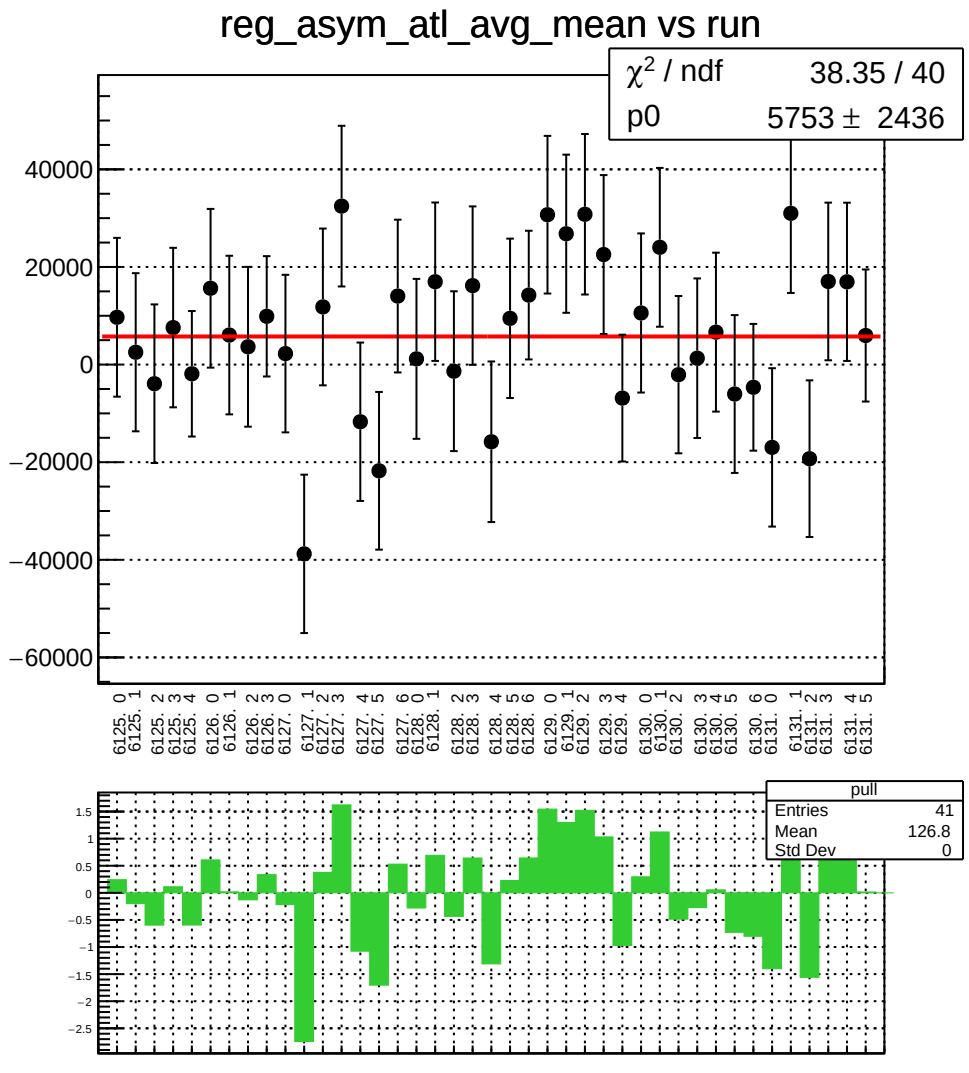

pull1D
Entries 41
Mean −0.02142
Std Dev 0.8945

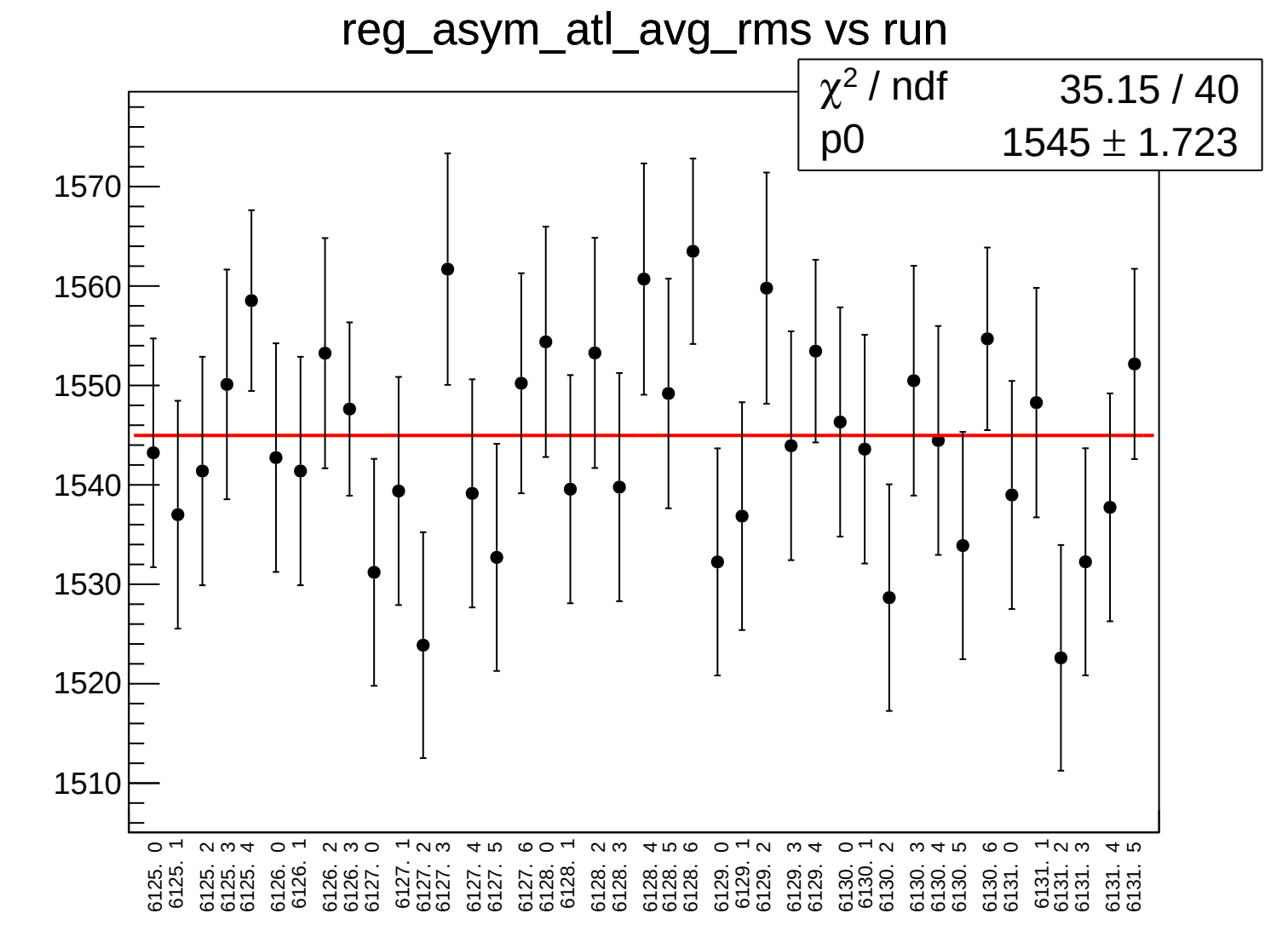

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4771 / 40
p0 332.7 ± 0.372
400
380
360
340
320
300
280
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

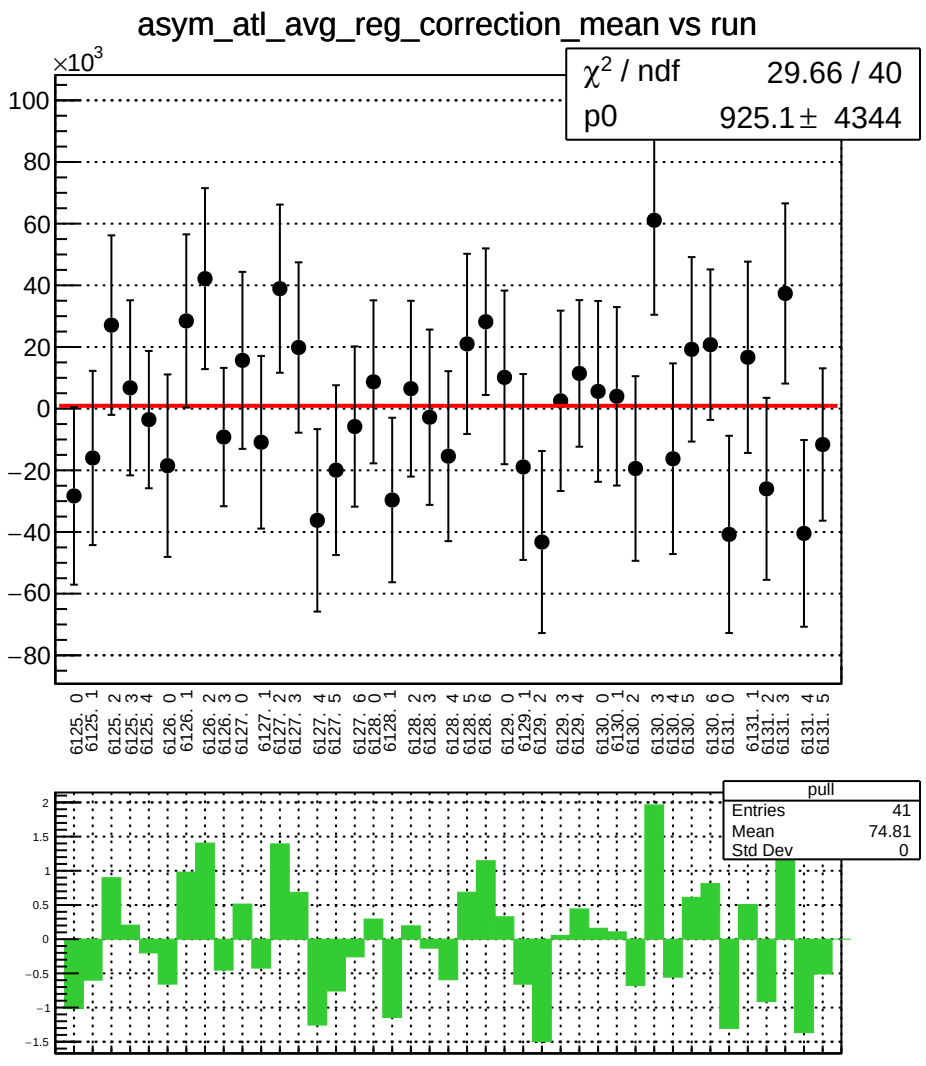

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 37.08 / 40
p0 −6.562e−13 ± 5.392e−13
pull
Entries 41
Mean 14.16
Std Dev 32.64

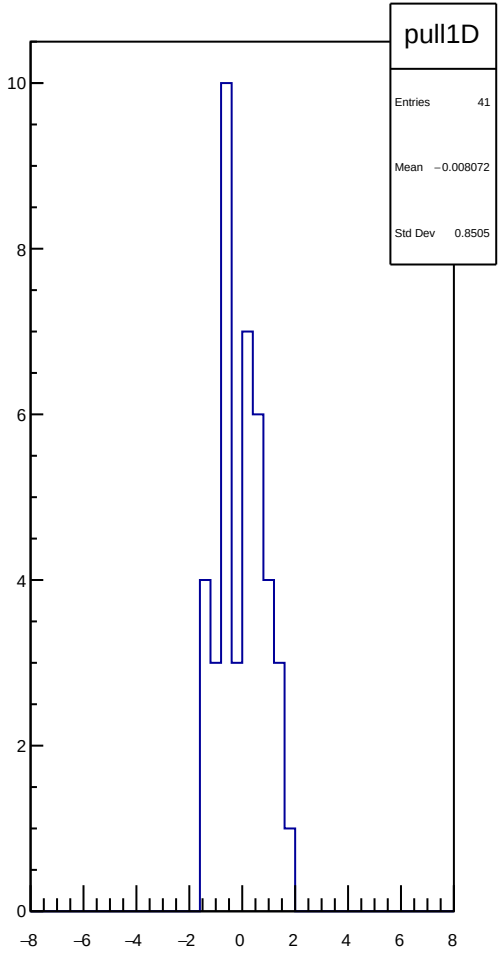

pull1D
Entries 41
Mean 0.03128
Std Dev 0.9505

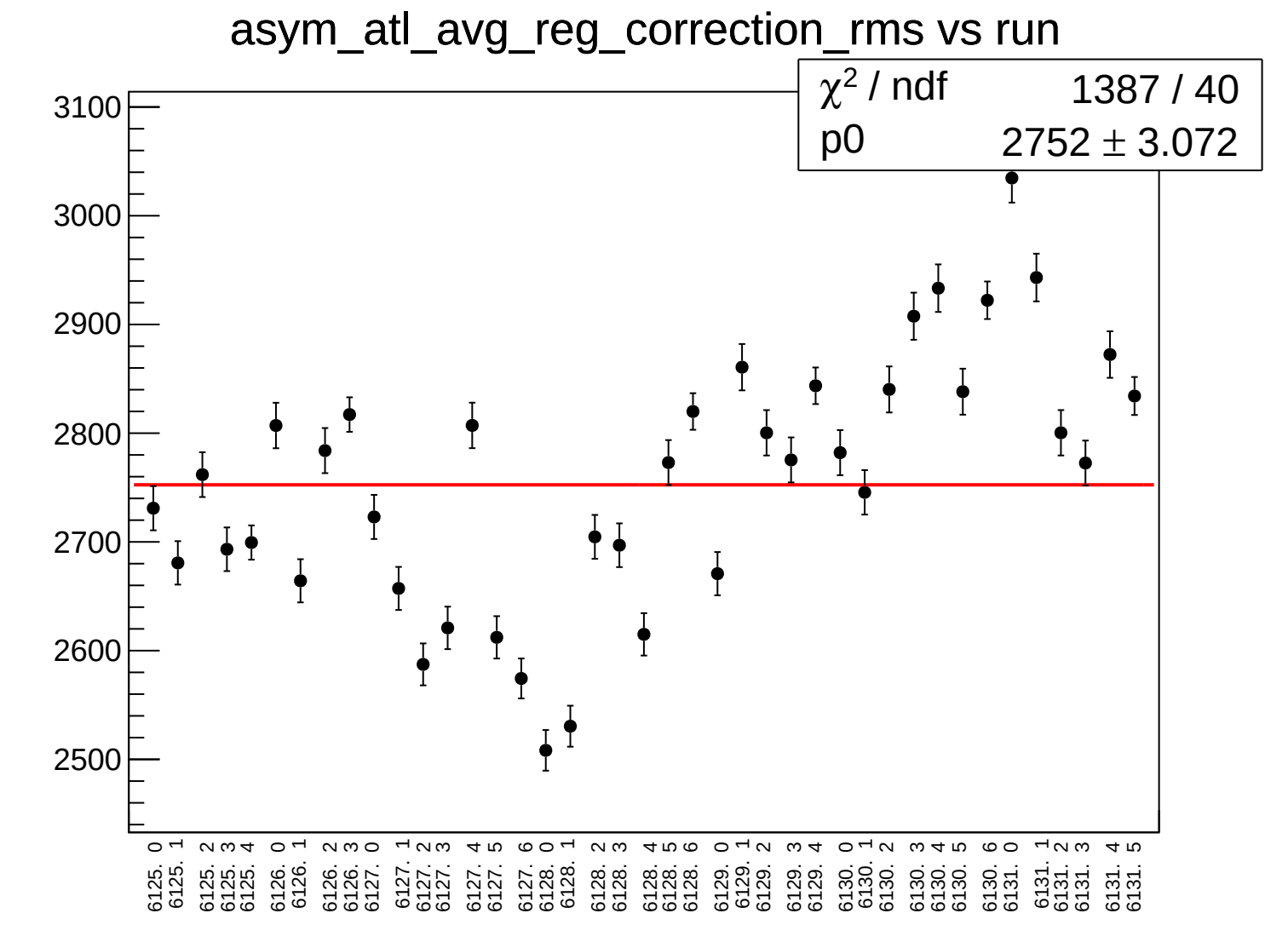

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.094e+05 / 40
p0 2.94e−10 ± 3.813e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

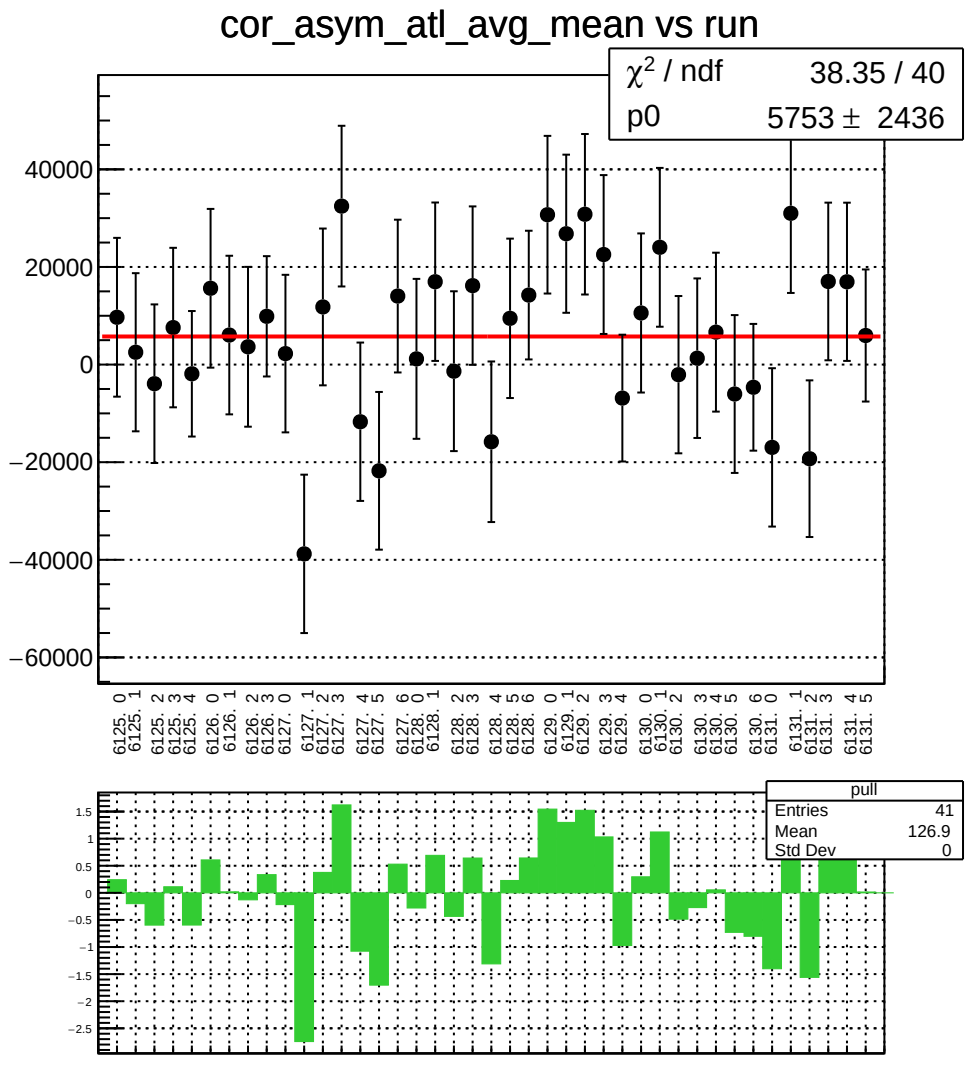

reg_asym_atl_avg_mean vs run
χ² / ndf 38.35 / 40
p0 5753 ± 2436
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 126.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean 0.009068
Std Dev 0.9671
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

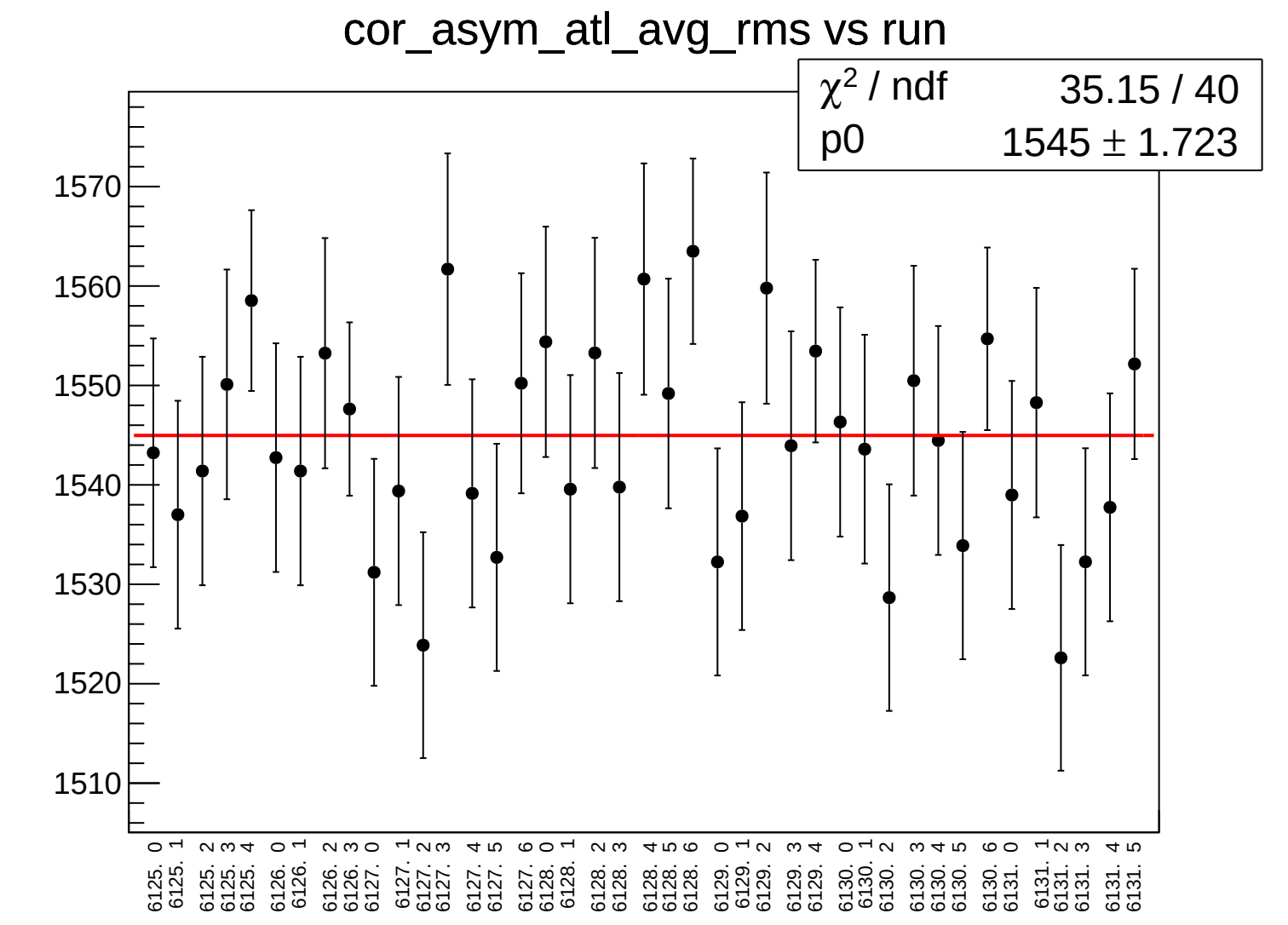

reg_asym_atl_avg_rms vs run
χ² / ndf 35.15 / 40
p0 1545 ± 1.723
1570
1560
1550
1540
1530
1520
1510
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

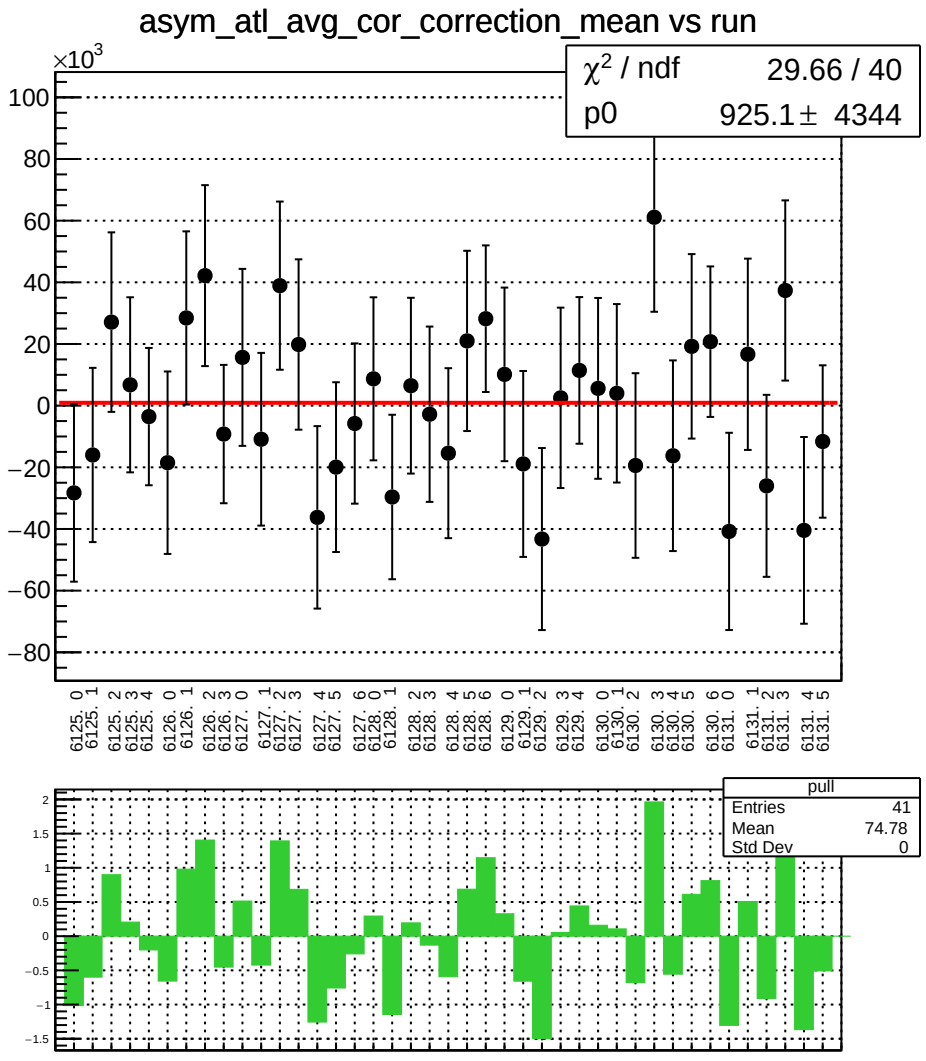

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 29.66 / 40
p0 925.1 ± 4344
100
80
60
40
20
0
−20
−40
−60
−80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 74.81
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

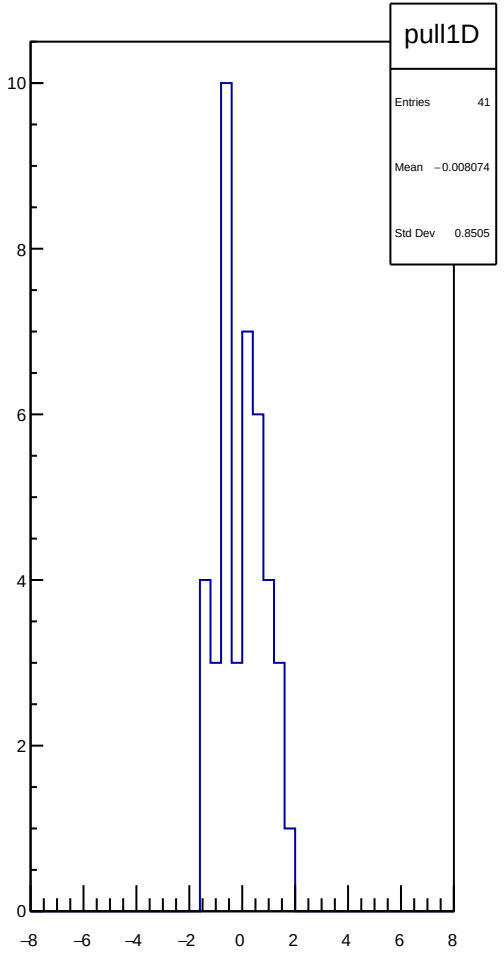

pull1D
Entries 41
Mean −0.008072
Std Dev 0.8505
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

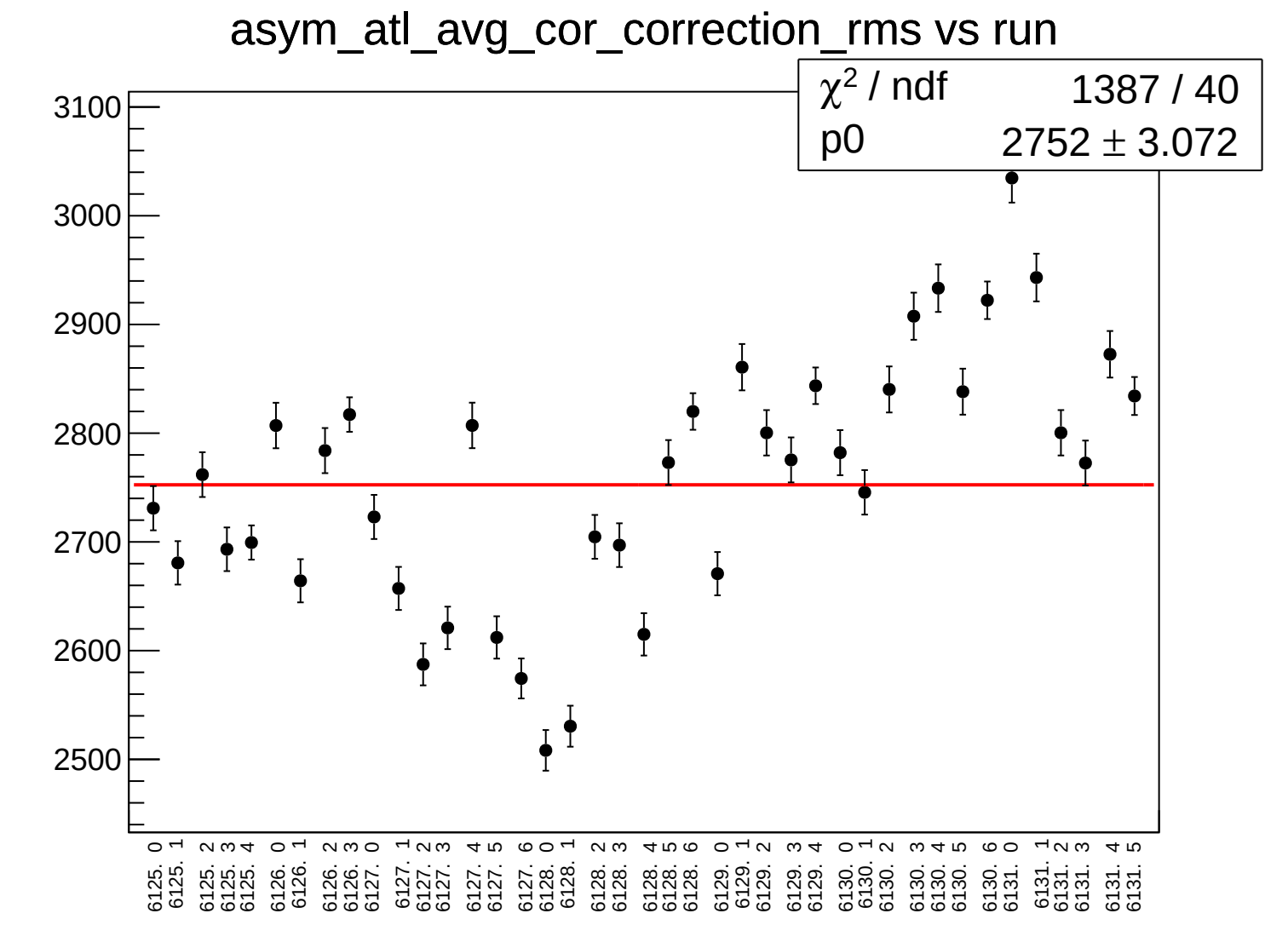

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 1387 / 40
p0 2752 ± 3.072
3100
3000
2900
2800
2700
2600
2500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


cor_asym_atl_avg_mean vs run
χ² / ndf 38.35 / 40
p0 5753 ± 2436
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 126.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean 0.009068
Std Dev 0.9671
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_avg_rms vs run
χ² / ndf 35.15 / 40
p0 1545 ± 1.723
1570
1560
1550
1540
1530
1520
1510
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atl_avg_cor_correction_mean vs run
χ² / ndf 29.66 / 40
p0 925.1 ± 4344
×10³
pull
Entries 41
Mean 74.78
Std Dev 0


pull1D
Entries 41
Mean −0.008074
Std Dev 0.8505


asym_atl_avg_cor_correction_rms vs run
χ² / ndf 1387 / 40
p0 2752 ± 3.072
3100
3000
2900
2800
2700
2600
2500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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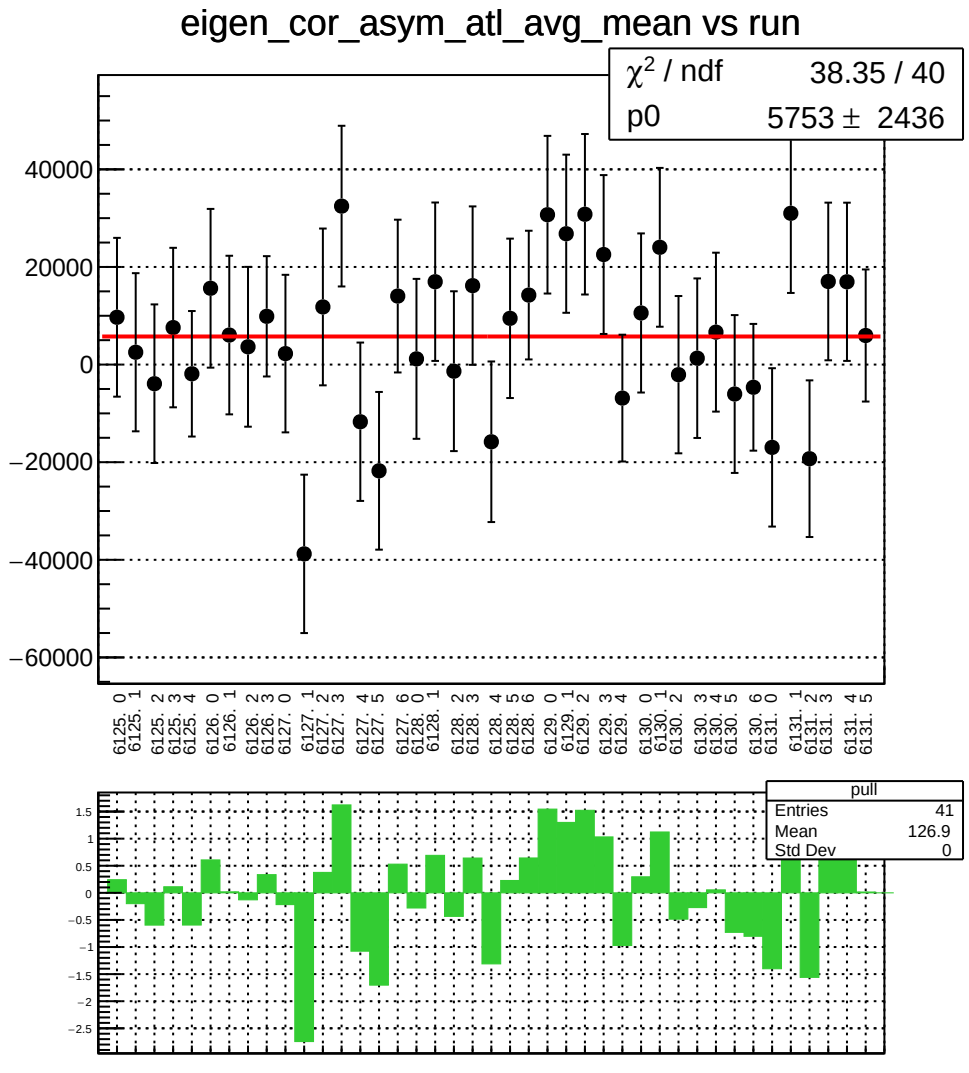
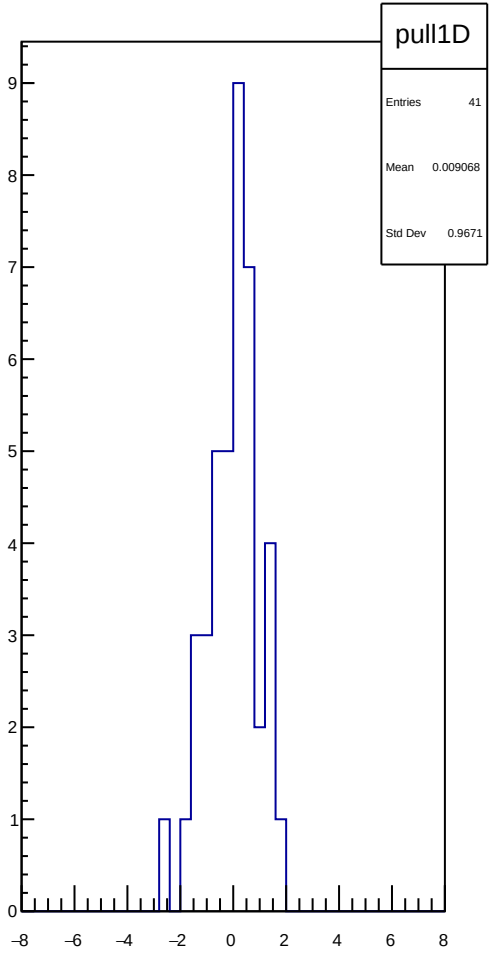
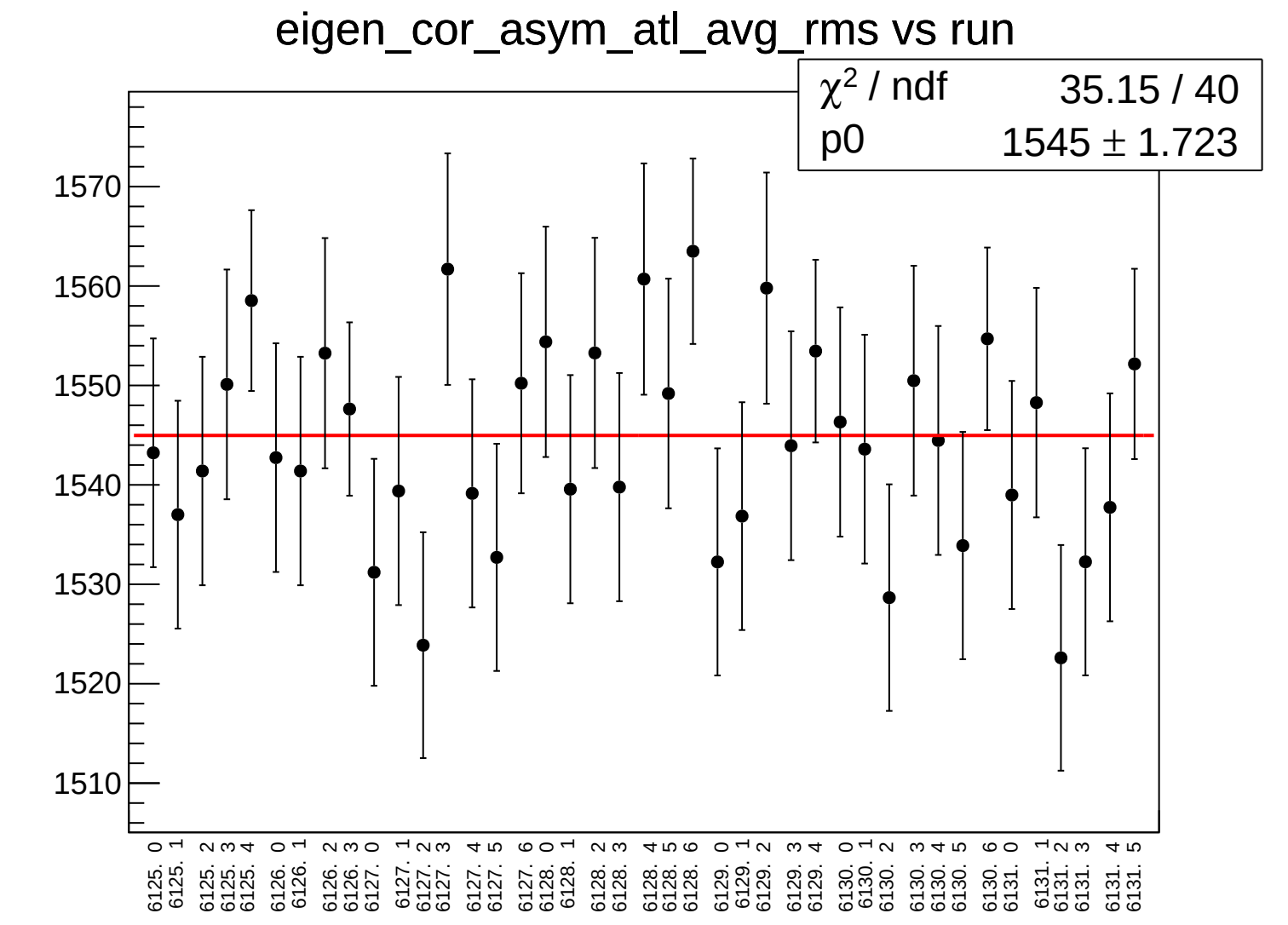
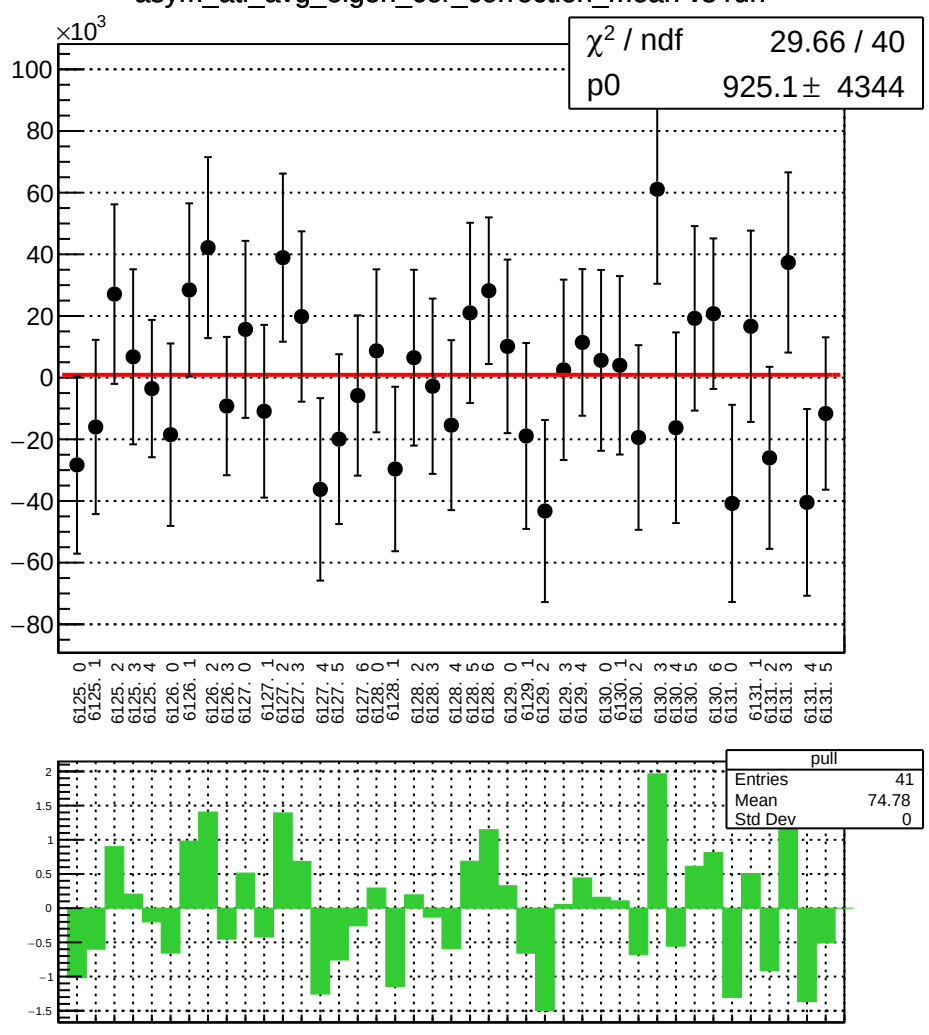
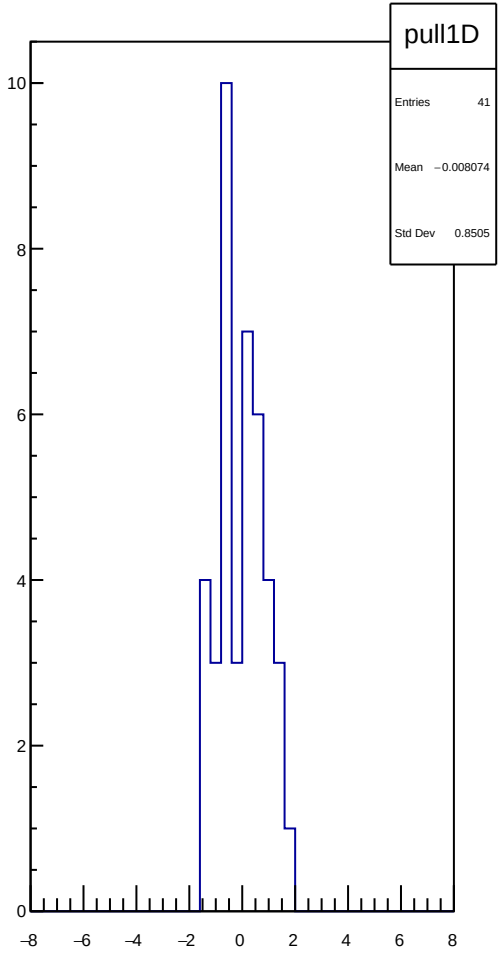
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

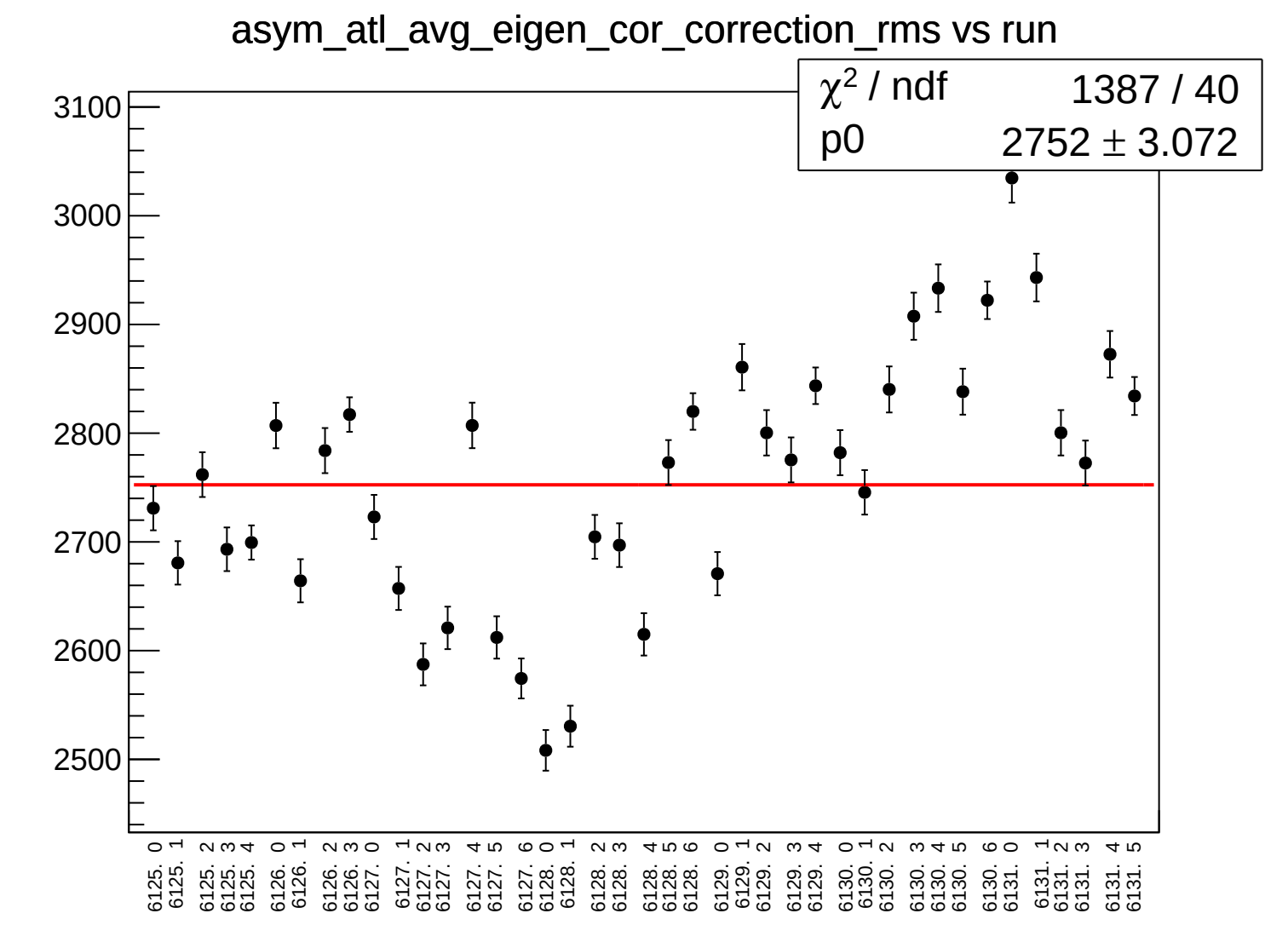

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 38.35 / 40
p0 5753 ± 2436
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 126.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 41
Mean 0.009068
Std Dev 0.9671
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 35.15 / 40
p0 1545 ± 1.723
1570
1560
1550
1540
1530
1520
1510
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 29.66 / 40
p0 925.1 ± 4344
100
80
60
40
20
0
−20
−40
−60
−80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6126. 4
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 74.78
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.008074
Std Dev 0.8505
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 1387 / 40
p0 2752 ± 3.072
3100
3000
2900
2800
2700
2600
2500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
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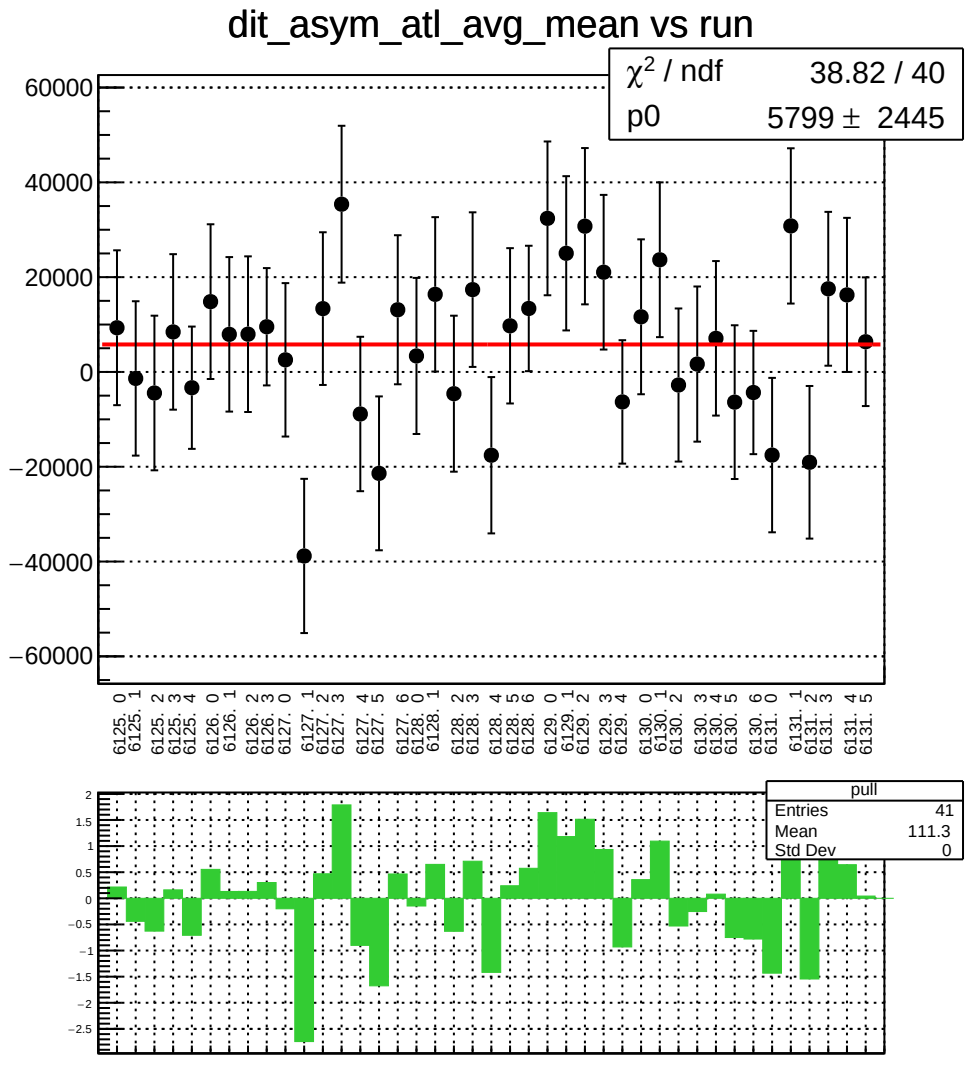
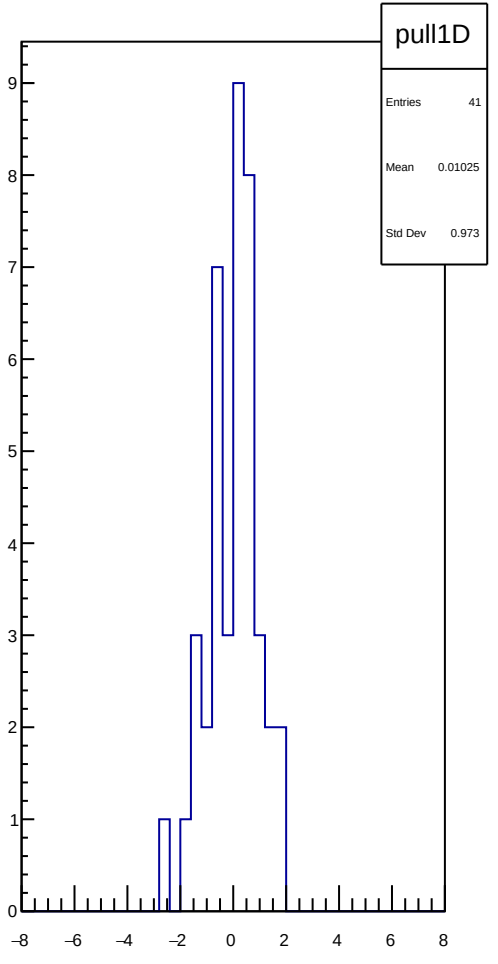
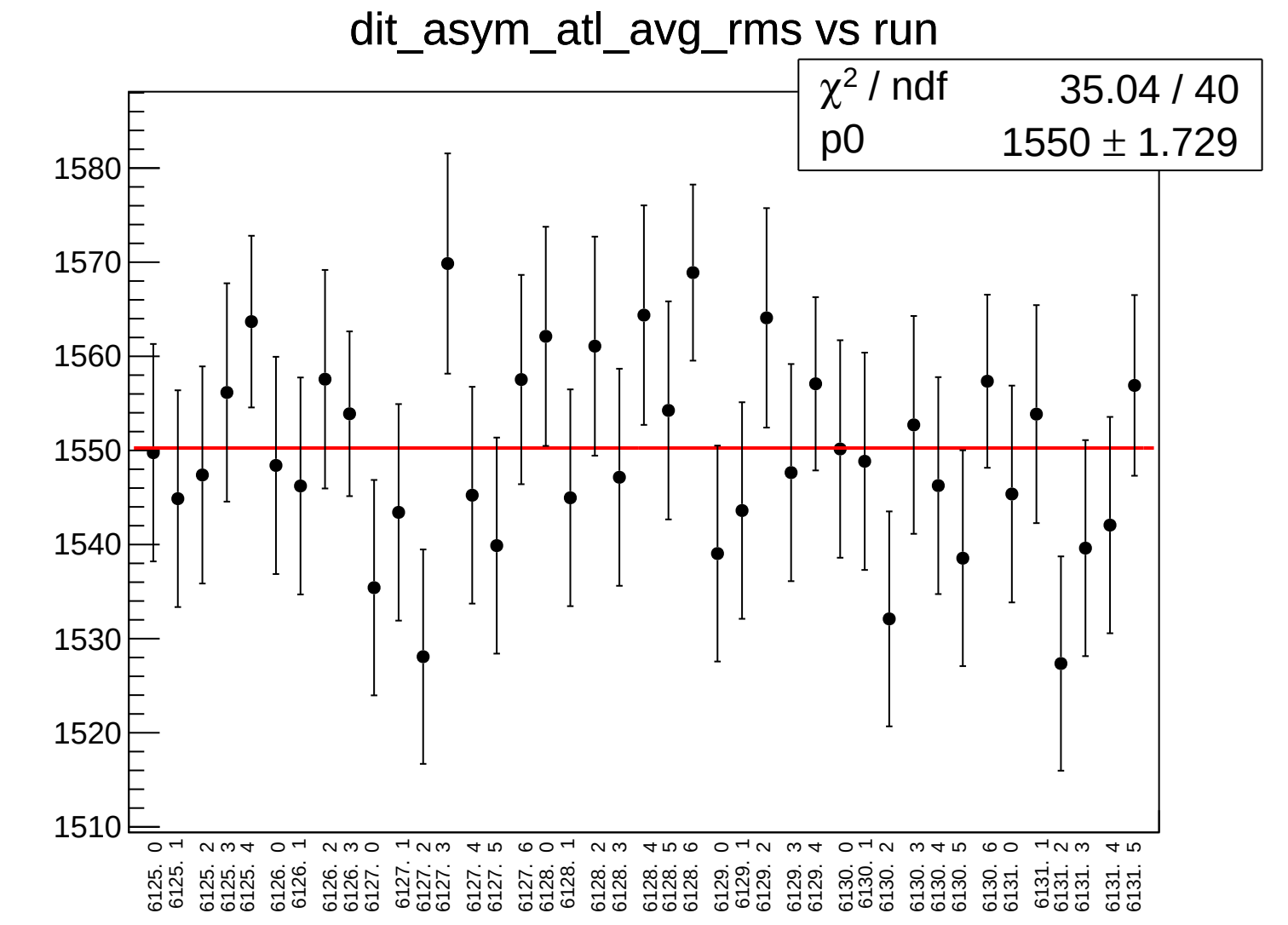
6131. 4
6131. 5


dit_asym_atl_avg_mean vs run
χ² / ndf 38.82 / 40
p0 5799 ± 2445
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 111.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 41
Mean 0.01025
Std Dev 0.973
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl_avg_rms vs run
χ² / ndf 35.04 / 40
p0 1550 ± 1.729
1580
1570
1560
1550
1540
1530
1520
1510
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
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6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
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6129. 2
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6130. 0
6130. 1
6130. 2
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6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
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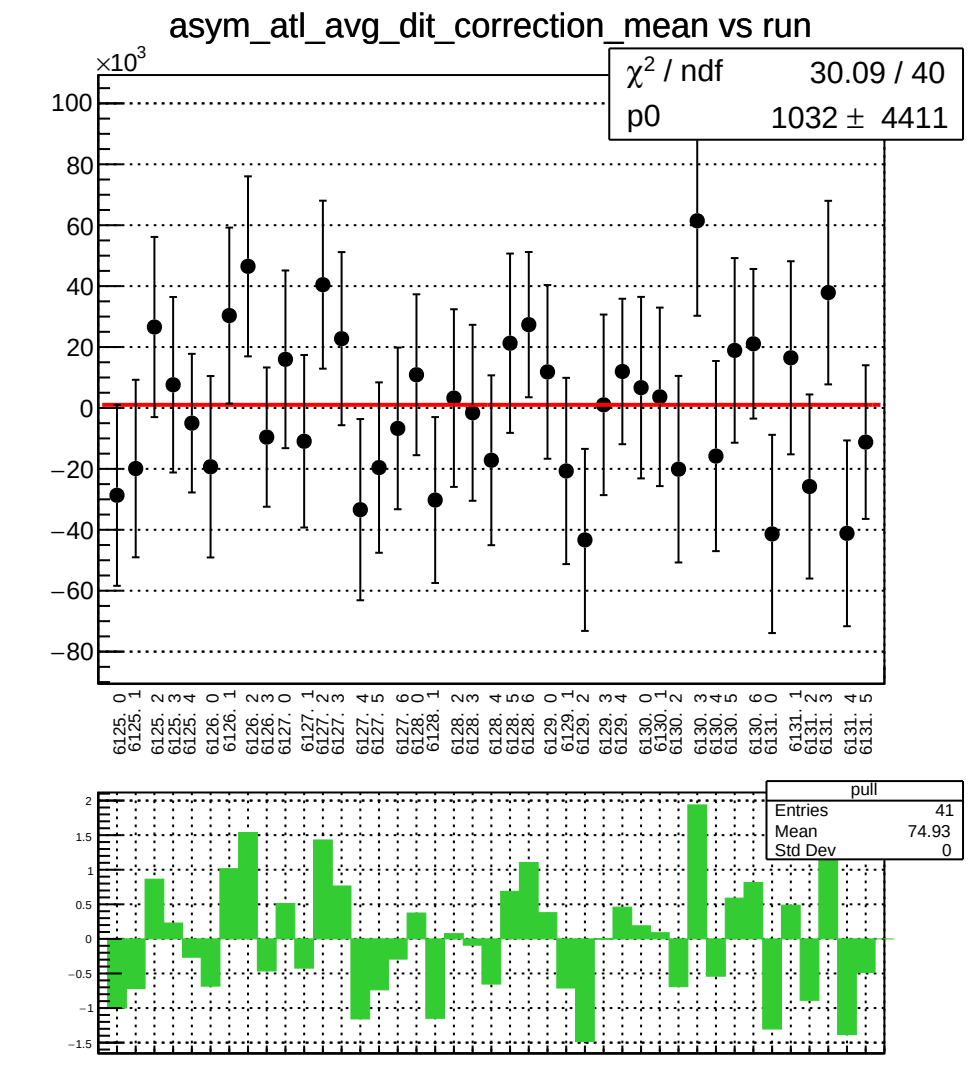
6131. 4
6131. 5


asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 30.09 / 40
p0 1032 ± 4411
100
80
60
40
20
0
−20
−40
−60
−80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
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6127. 1
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6130. 1
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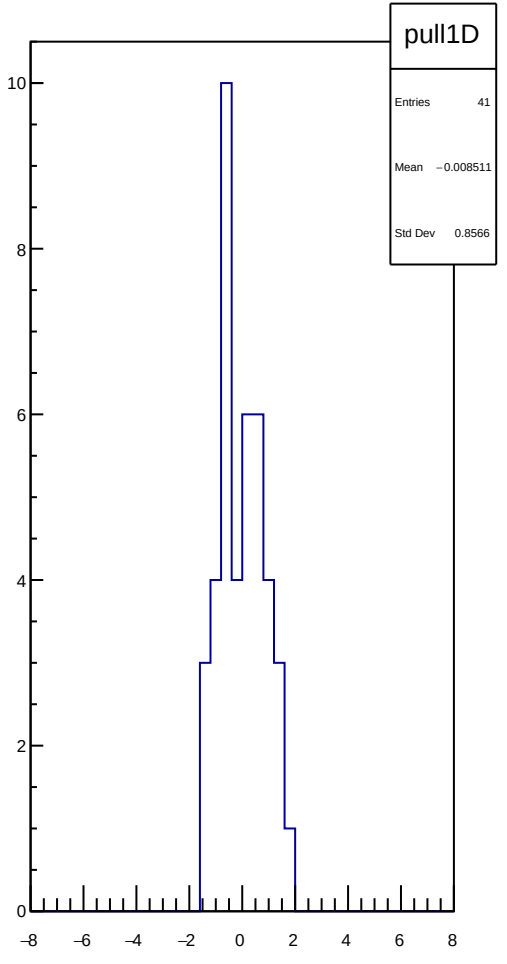
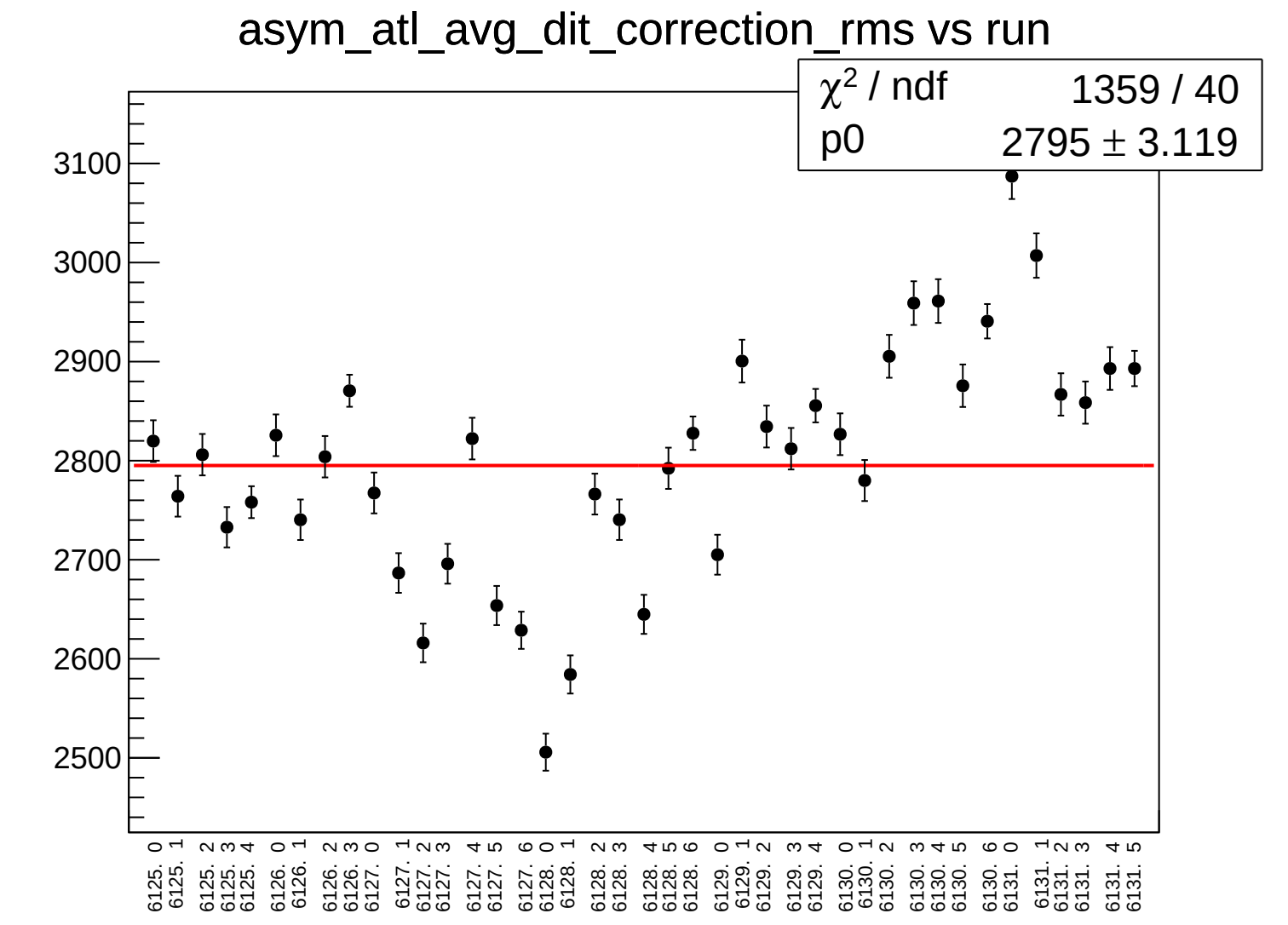
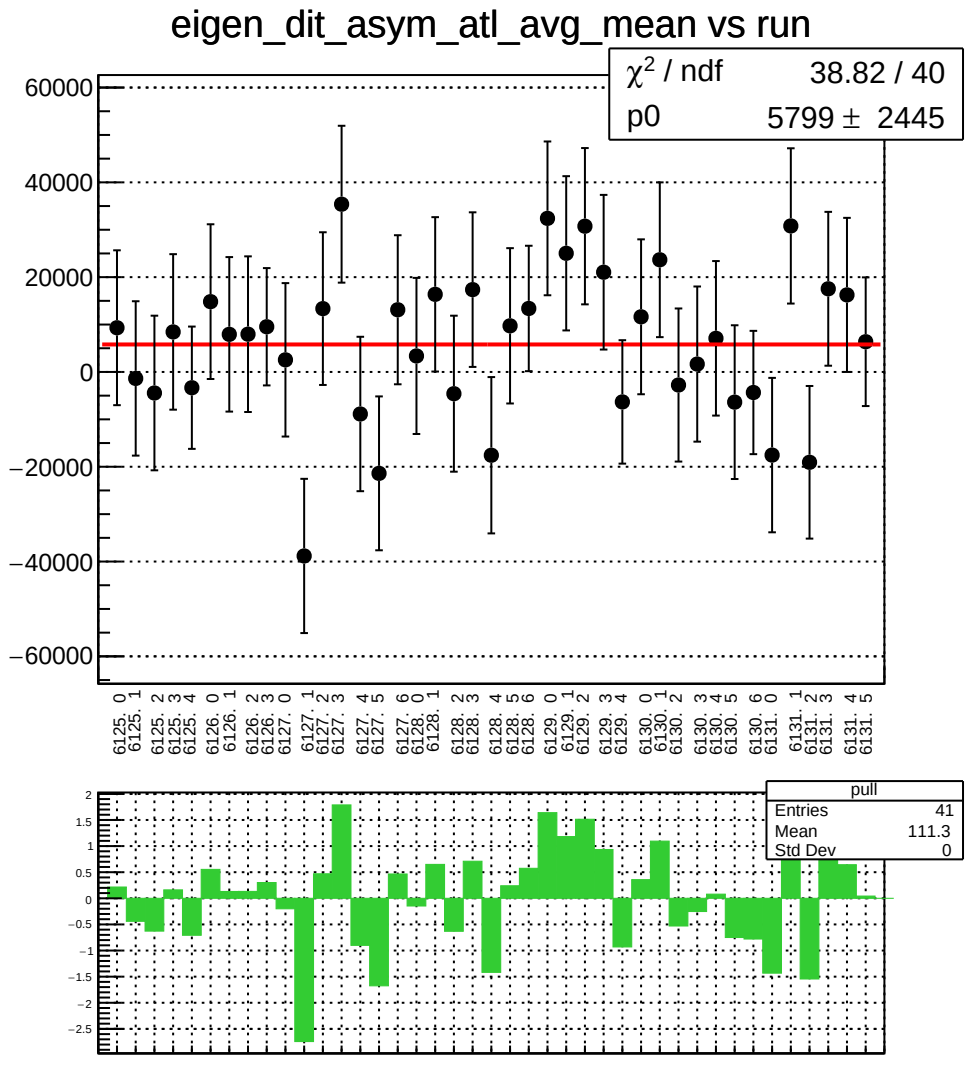
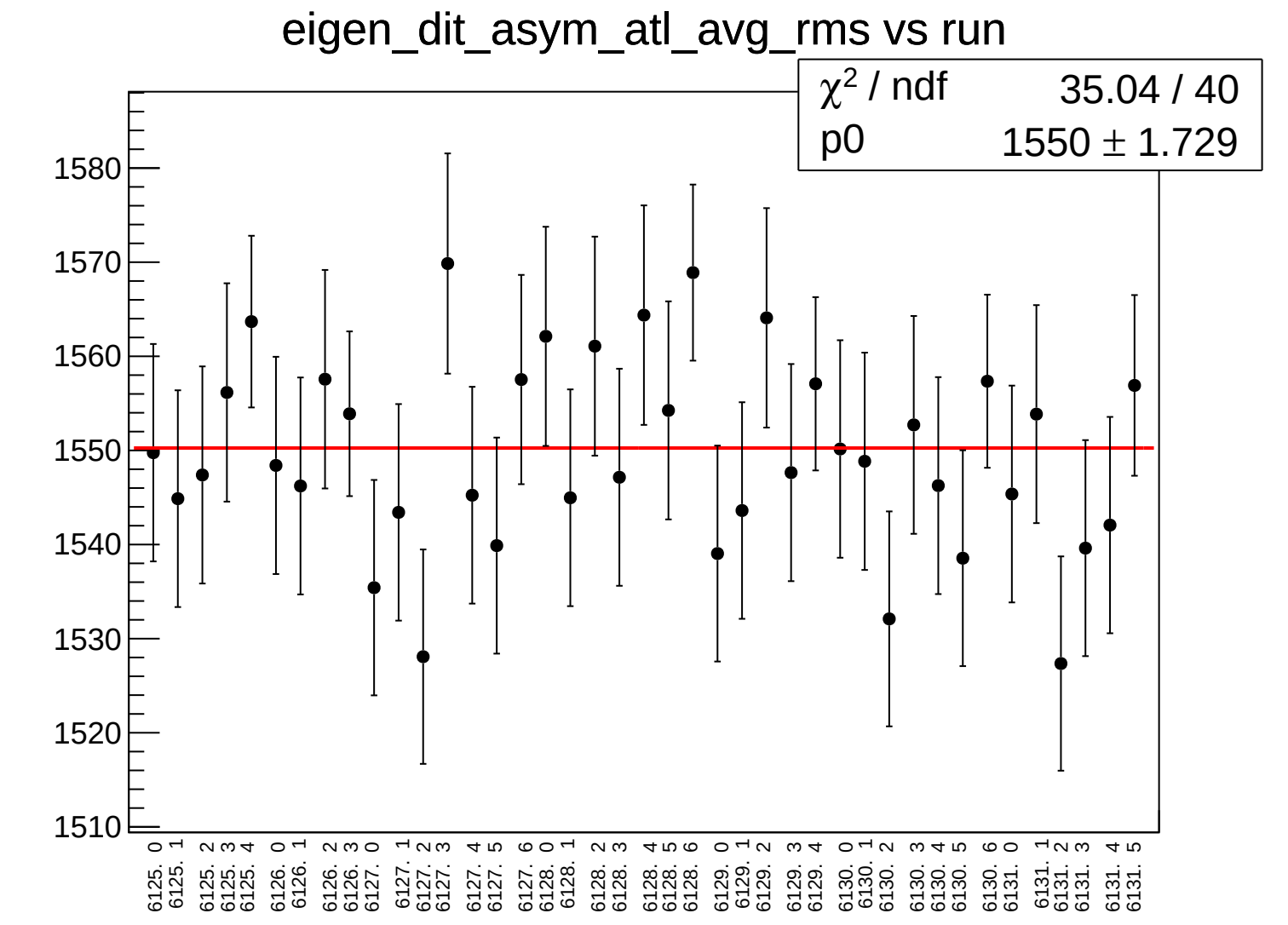
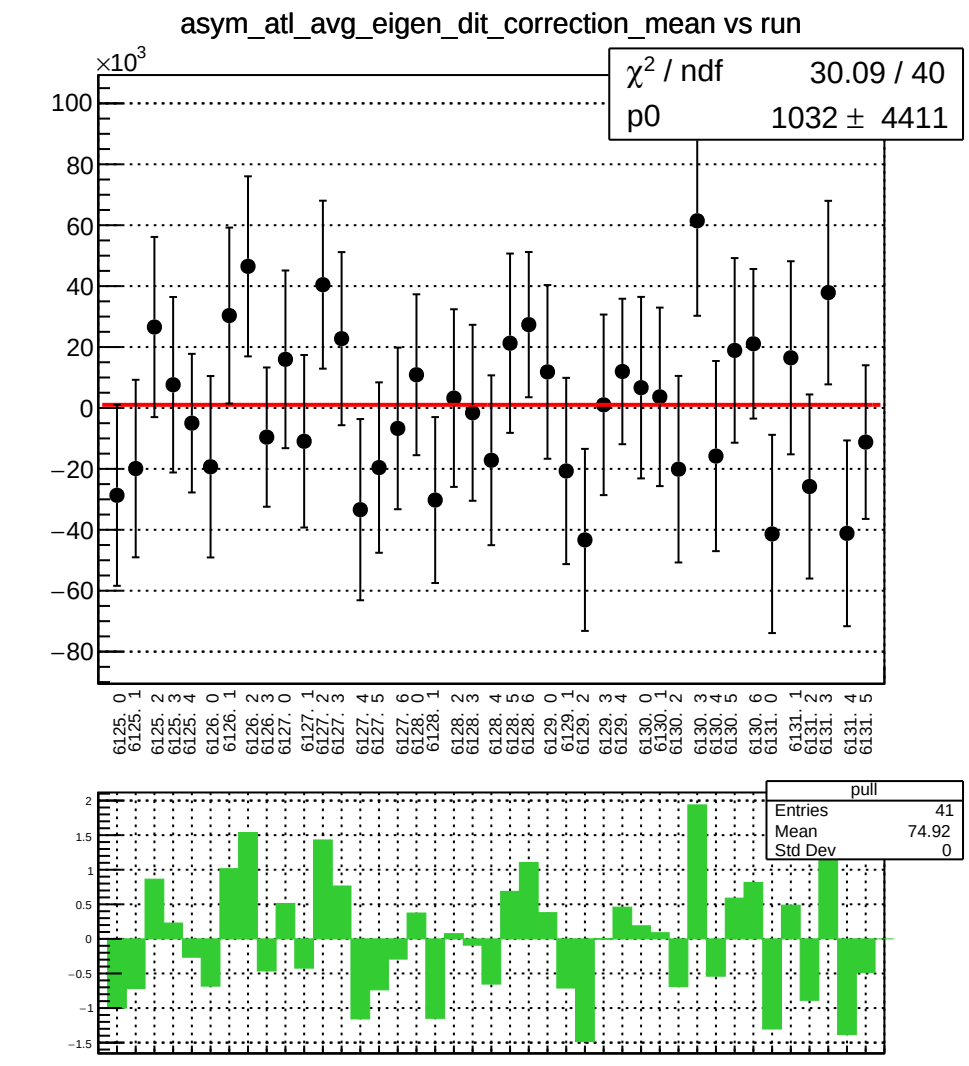
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 74.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

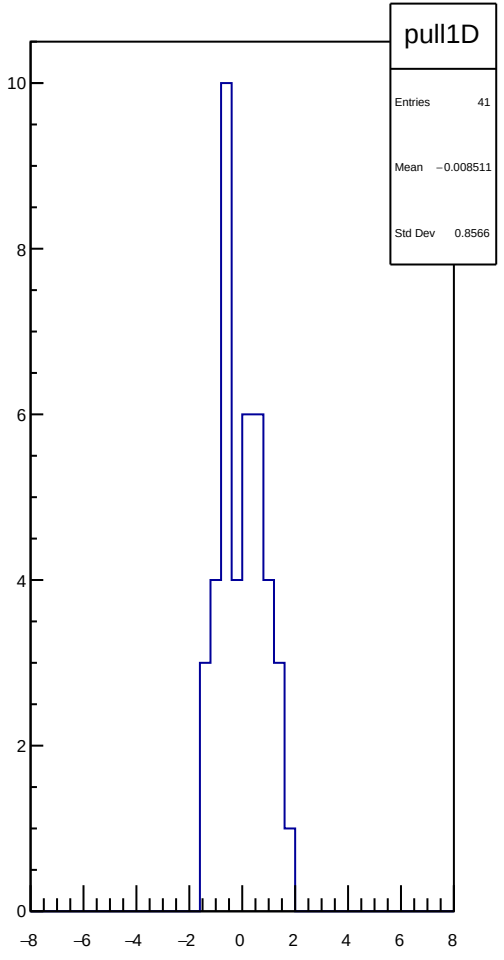

pull1D
Entries 41
Mean −0.008511
Std Dev 0.8566
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

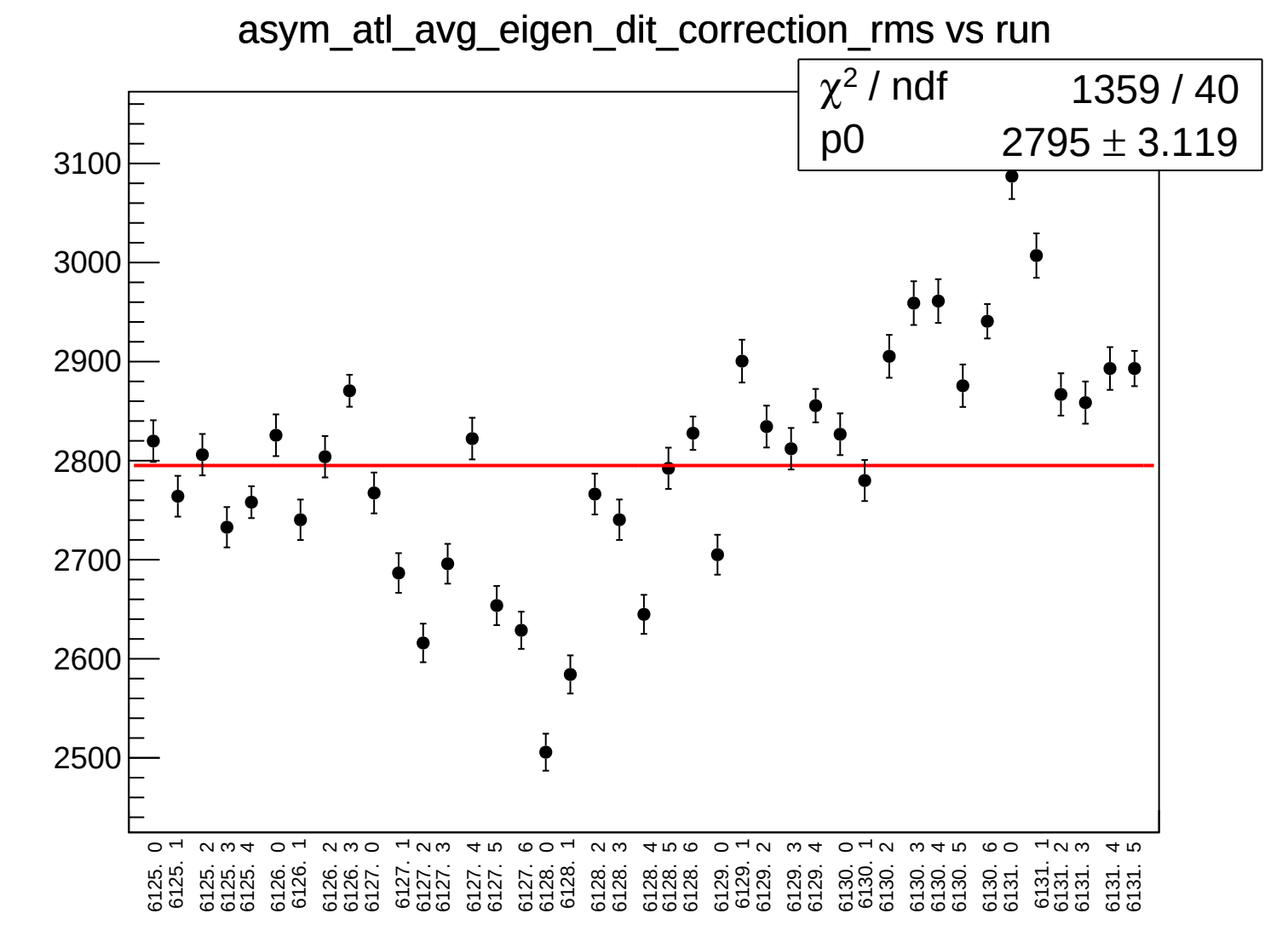

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 1359 / 40
p0 2795 ± 3.119
3100
3000
2900
2800
2700
2600
2500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

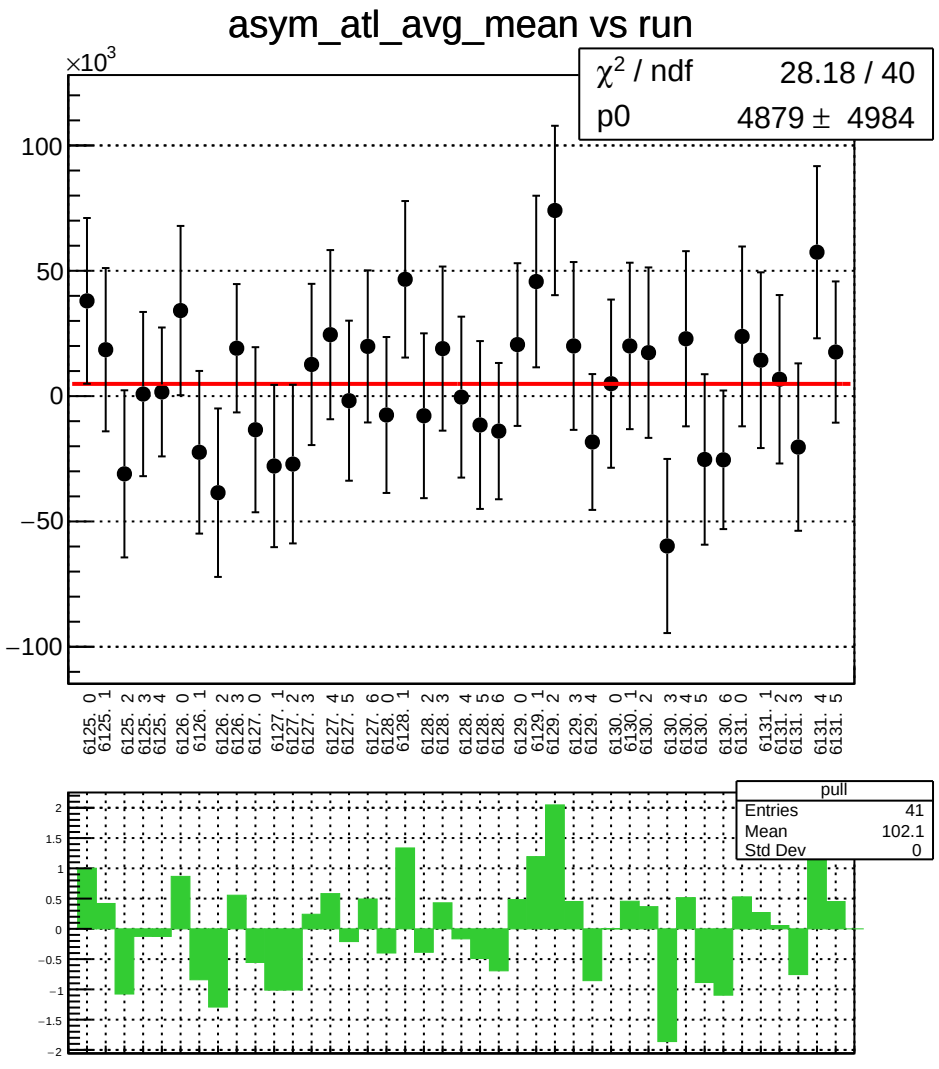

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 38.82 / 40
p0 5799 ± 2445
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 111.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean 0.01025
Std Dev 0.973
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

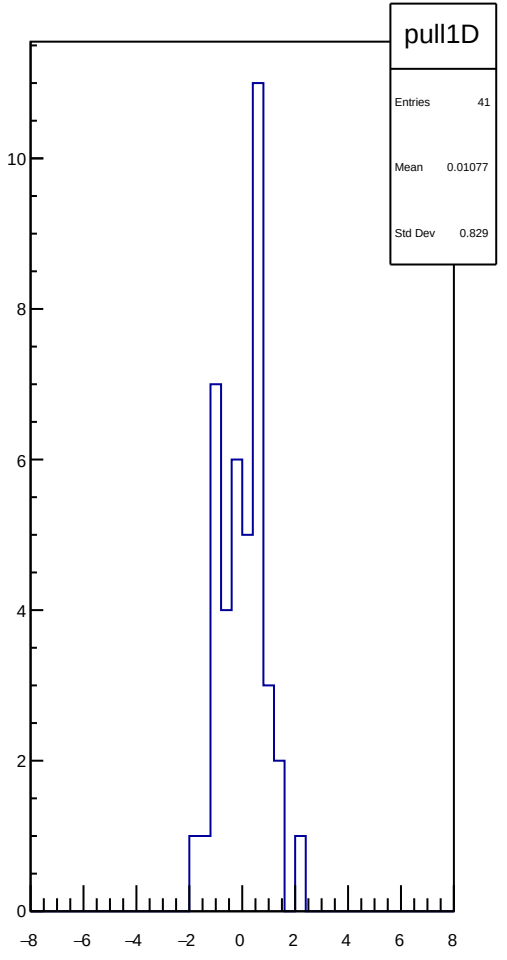

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 35.04 / 40
p0 1550 ± 1.729
1580
1570
1560
1550
1540
1530
1520
1510
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

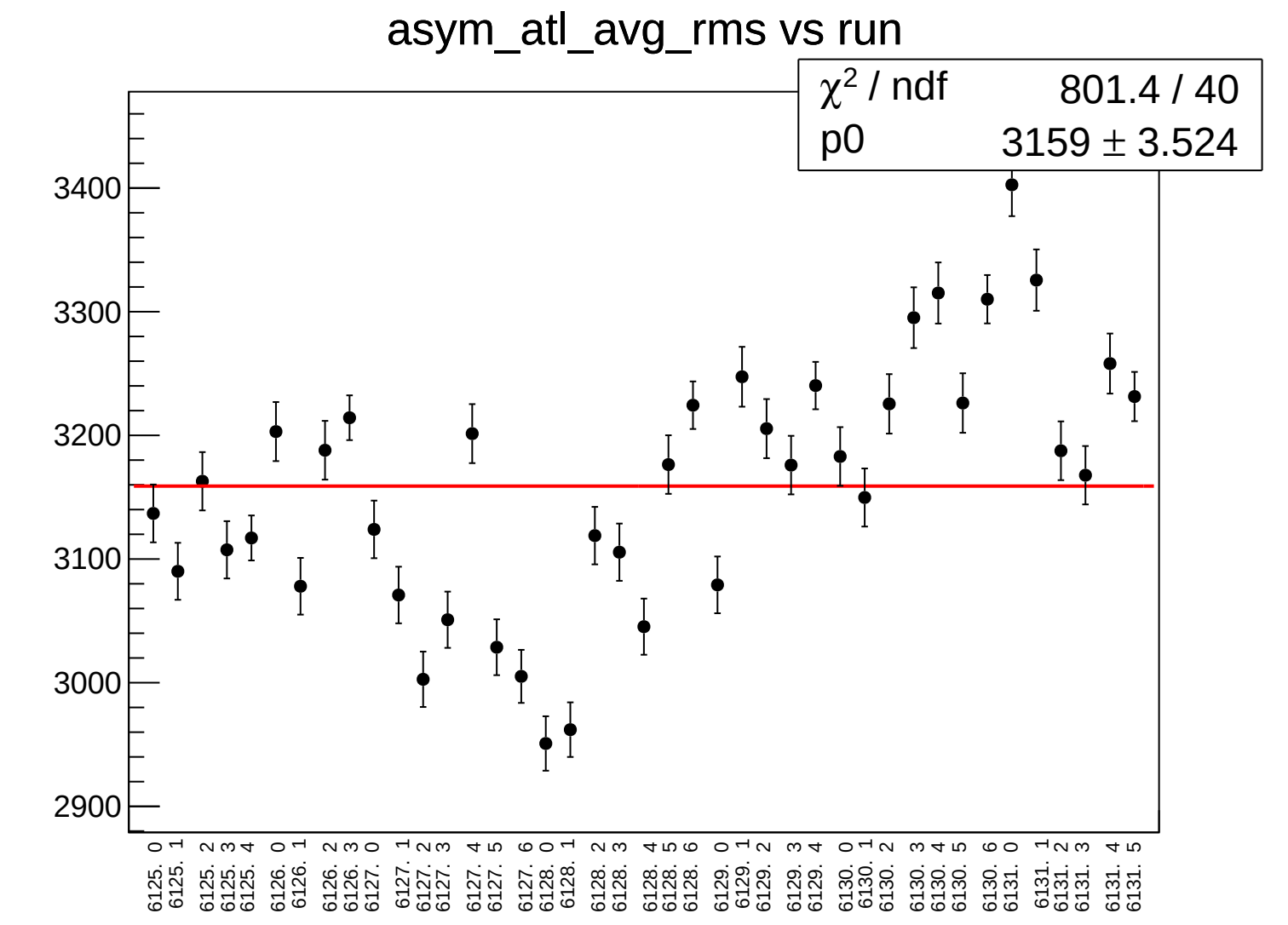

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 30.09 / 40
p0 1032 ± 4411
100
80
60
40
20
0
−20
−40
−60
−80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 74.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

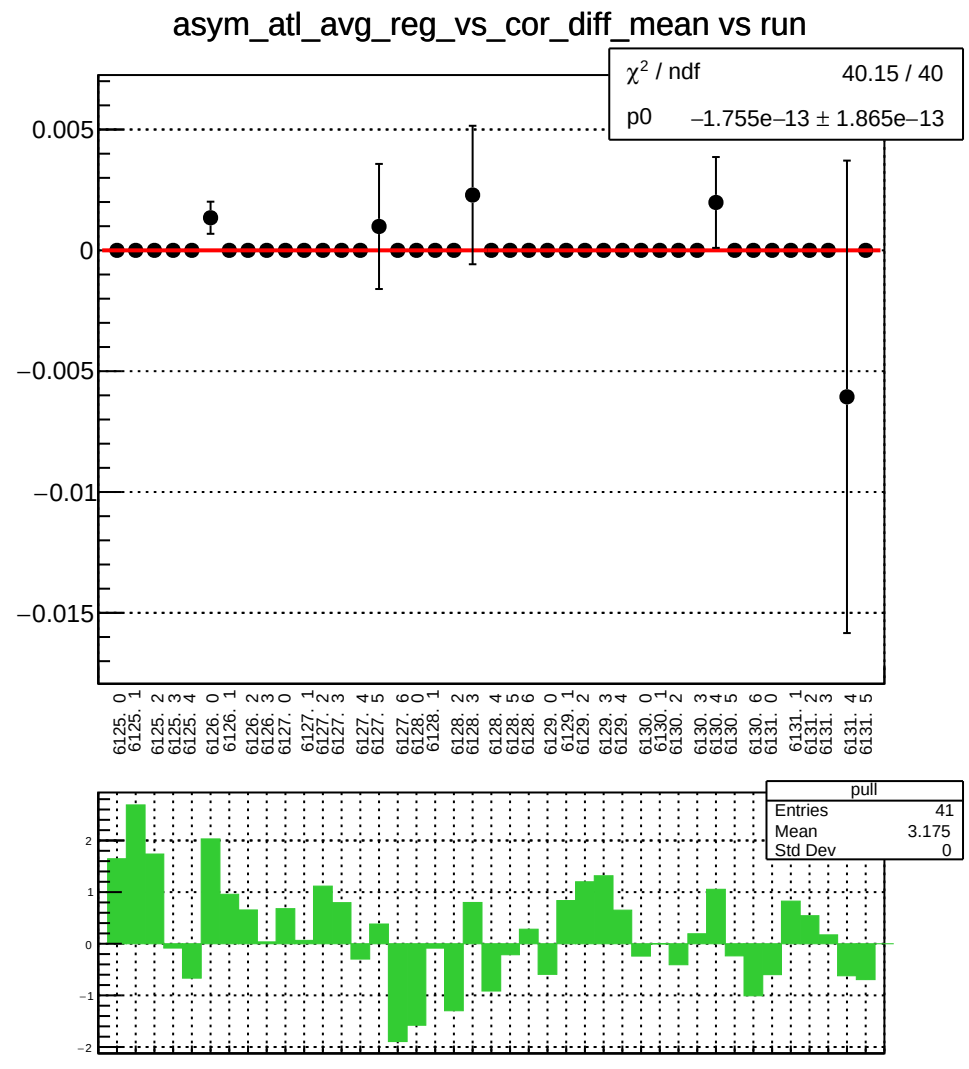

pull1D
Entries 41
Mean −0.008511
Std Dev 0.8566
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

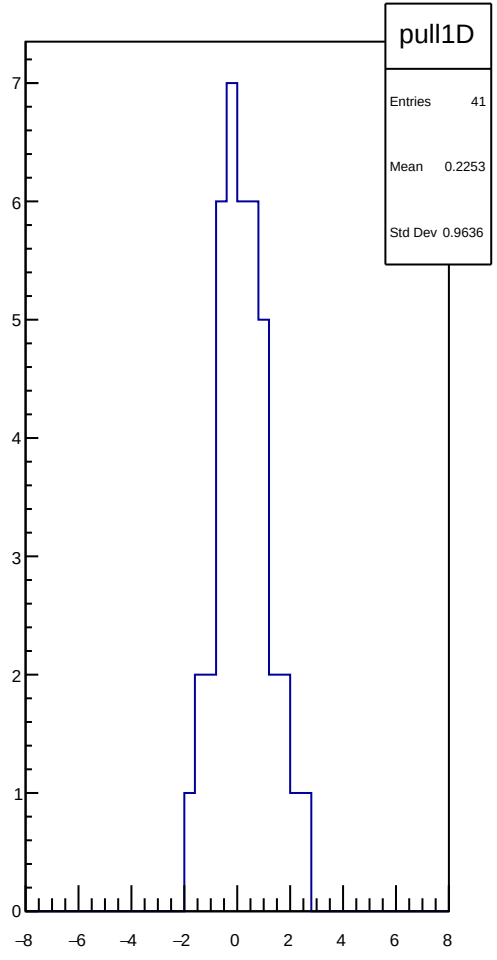

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 1359 / 40
p0 2795 ± 3.119
3100
3000
2900
2800
2700
2600
2500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

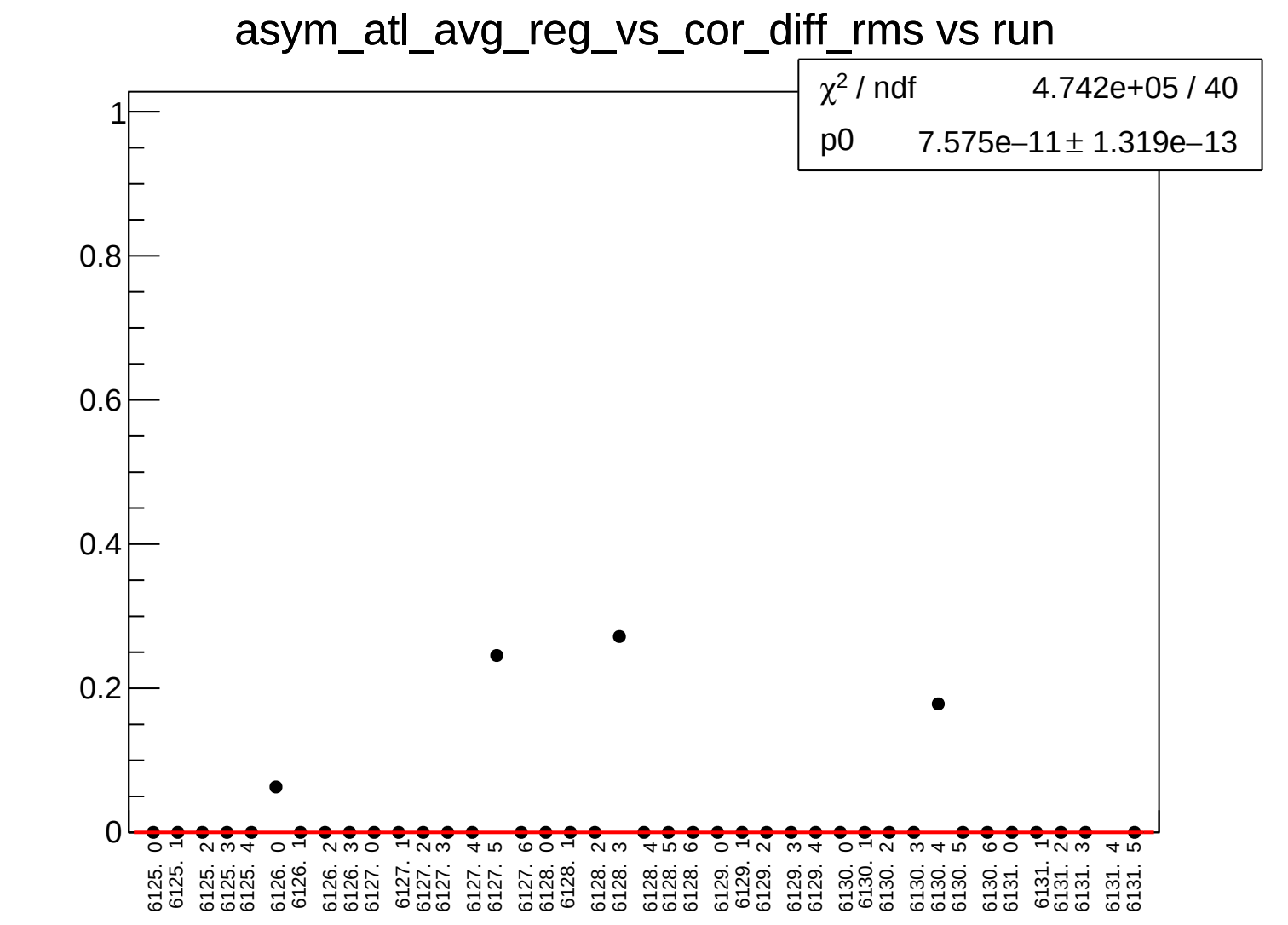

asym_atl_avg_mean vs run
×10^3
χ² / ndf 28.18 / 40
p0 4879 ± 4984
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 102.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

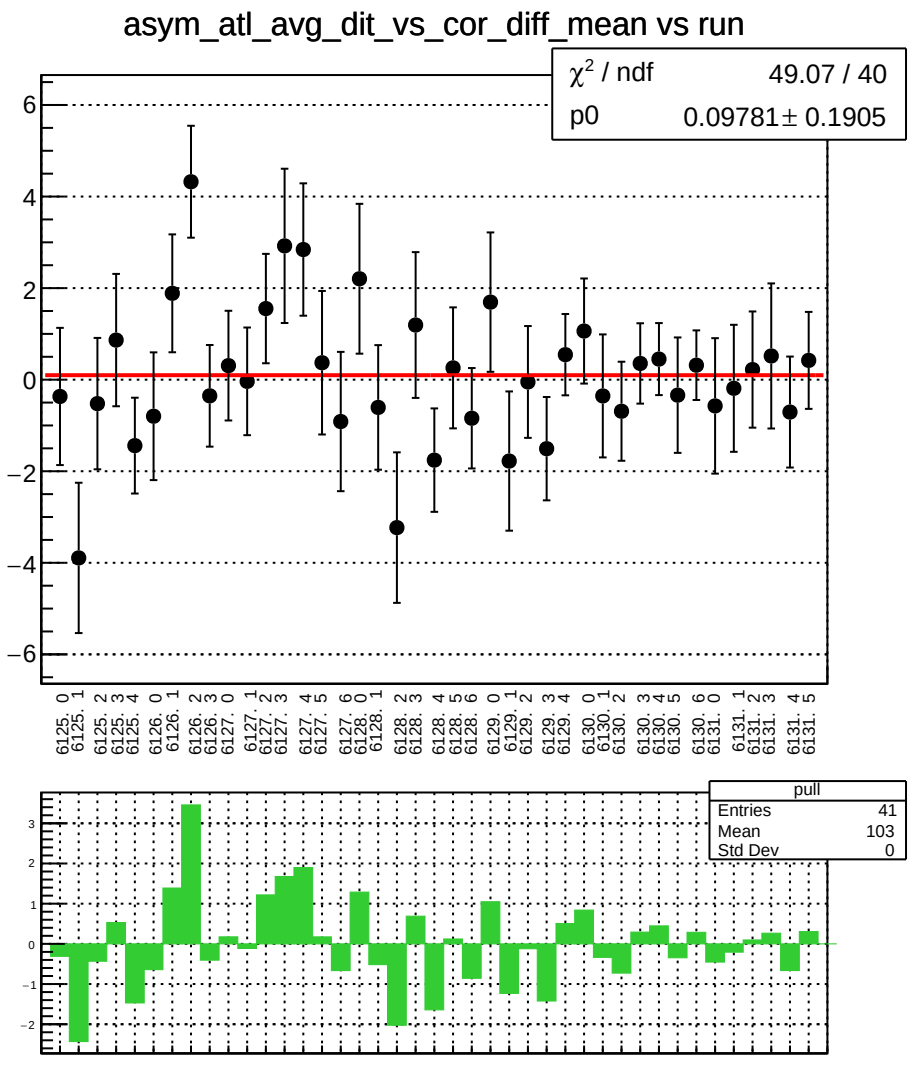

pull1D
Entries 41
Mean 0.01077
Std Dev 0.829
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

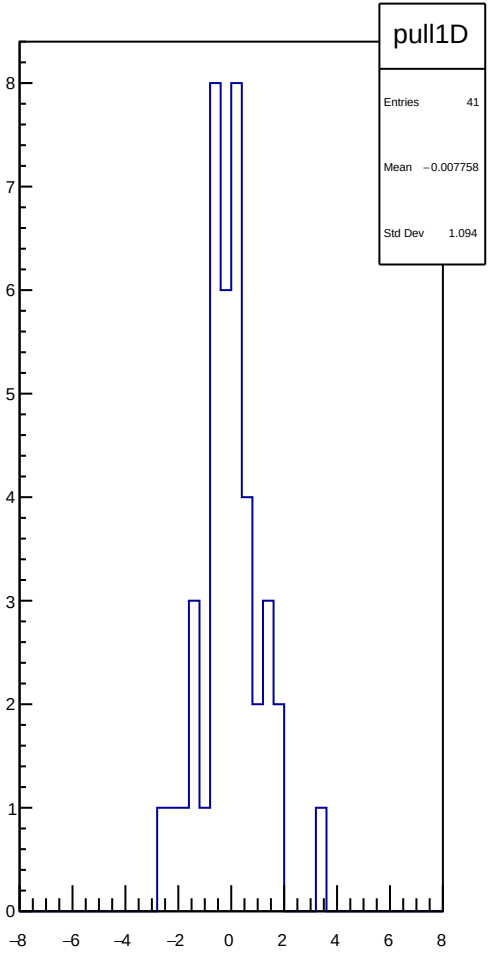

asym_atl_avg_rms vs run
χ² / ndf 801.4 / 40
p0 3159 ± 3.524
3400
3300
3200
3100
3000
2900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

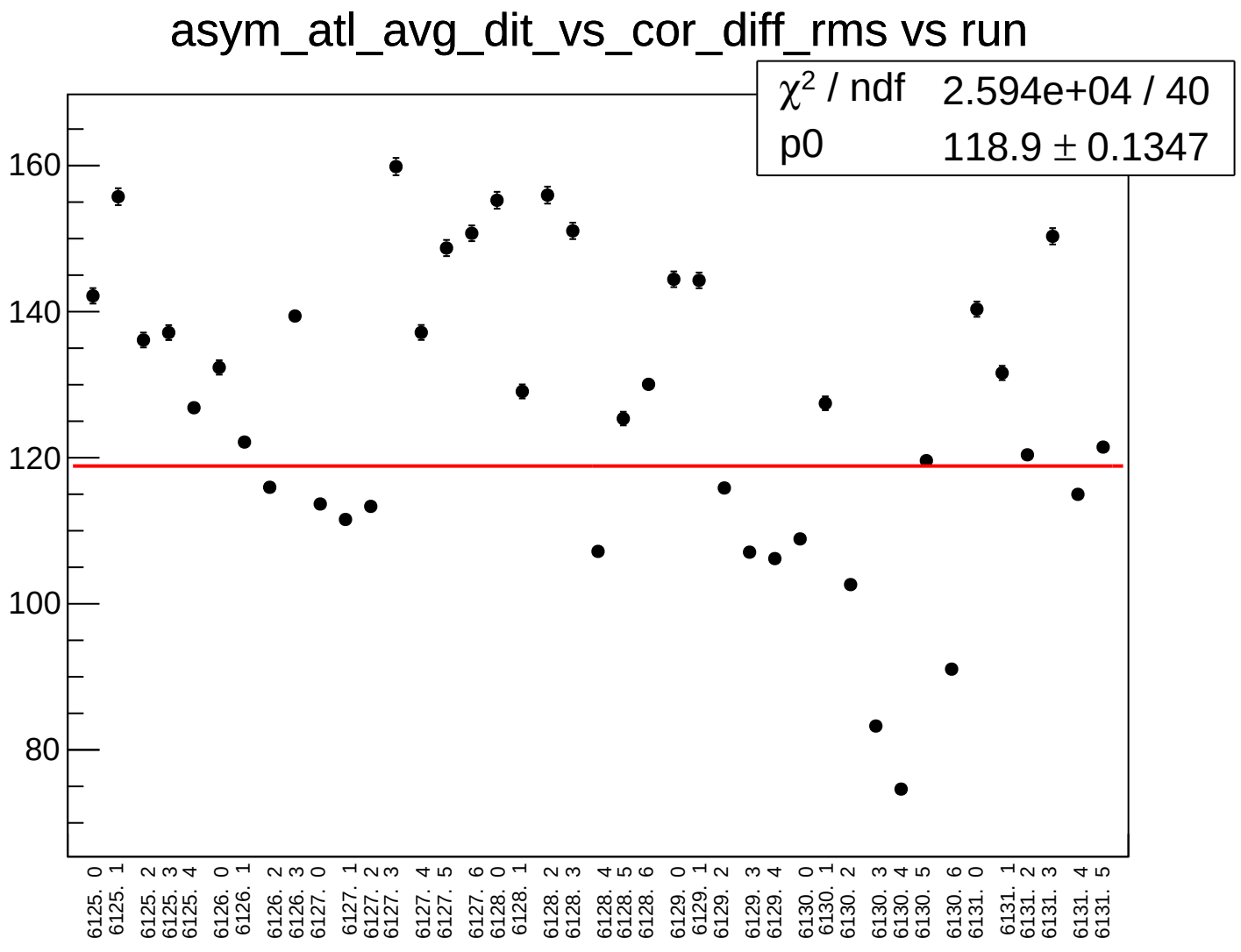

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 40.15 / 40
p0 −1.755e−13 ± 1.865e−13
0.005
0
−0.005
−0.01
−0.015
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 3.175
Std Dev 0
2
1
0
−1
−2

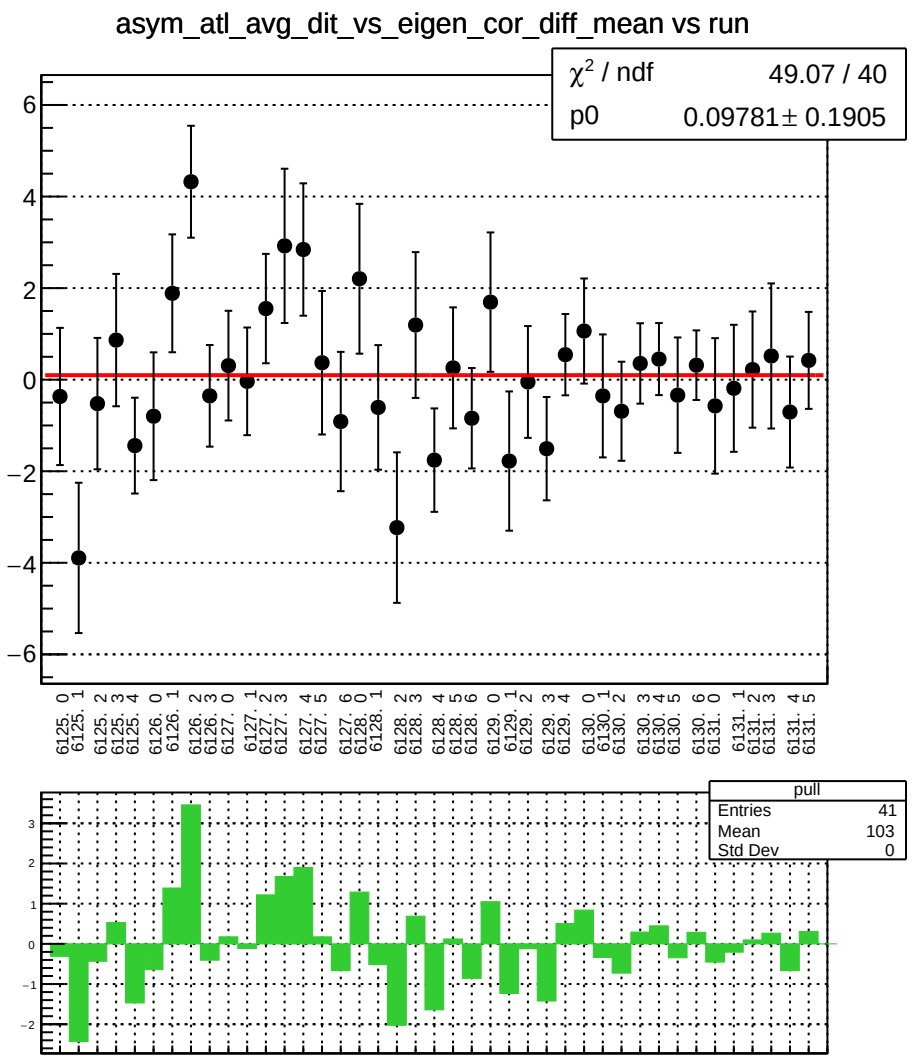

pull1D
Entries 41
Mean 0.2253
Std Dev 0.9636
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

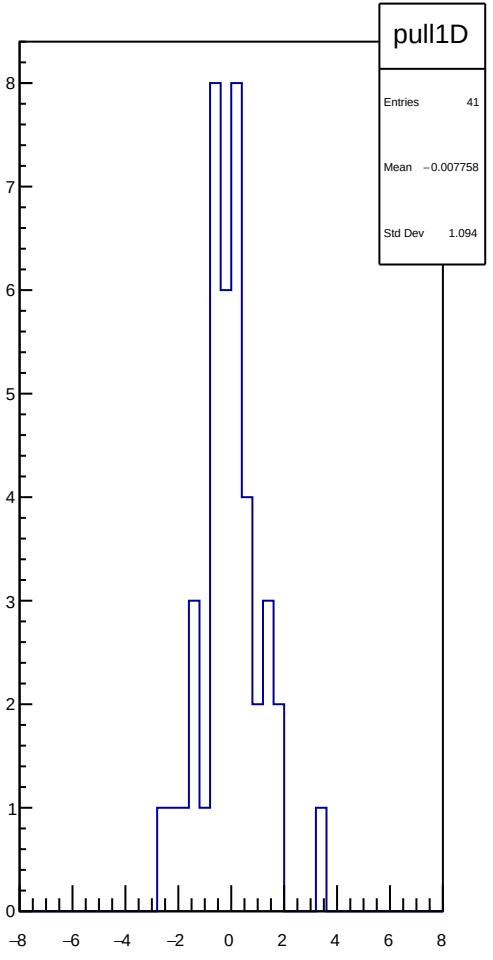

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.742e+05 / 40
p0 7.575e−11 ± 1.319e−13
1
0.8
0.6
0.4
0.2
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

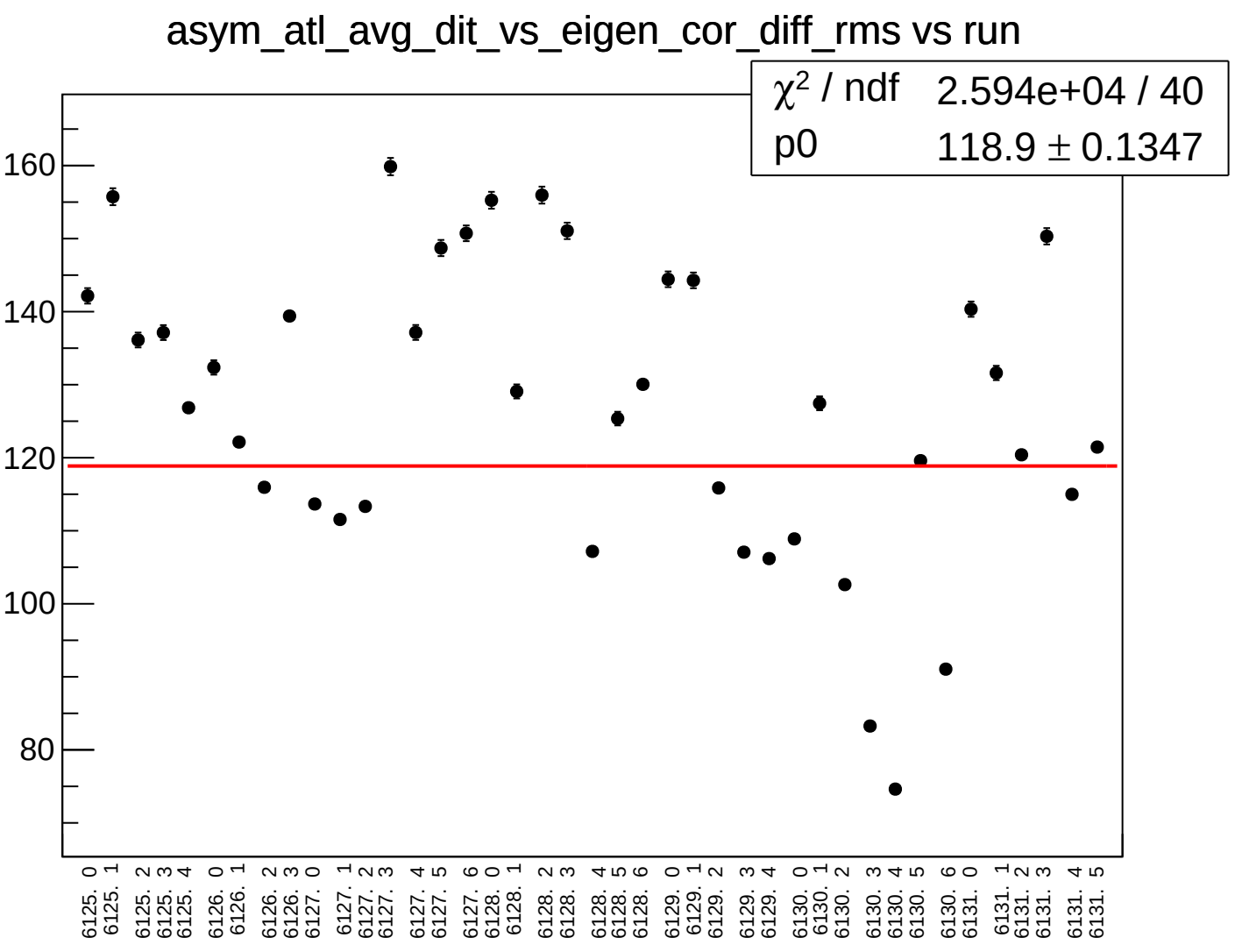

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 49.07 / 40
p0 0.09781 ± 0.1905
pull
Entries 41
Mean 103
Std Dev 0

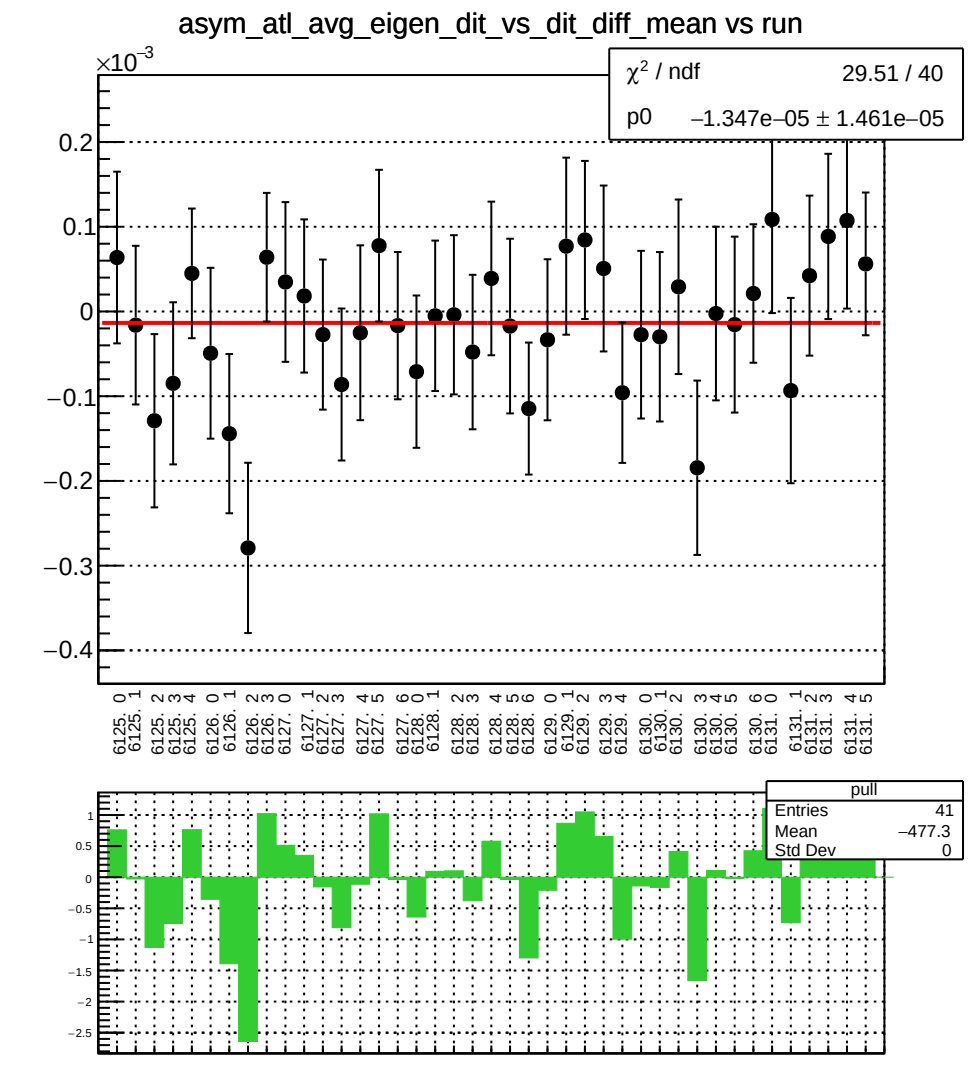

pull1D
Entries 41
Mean −0.007758
Std Dev 1.094

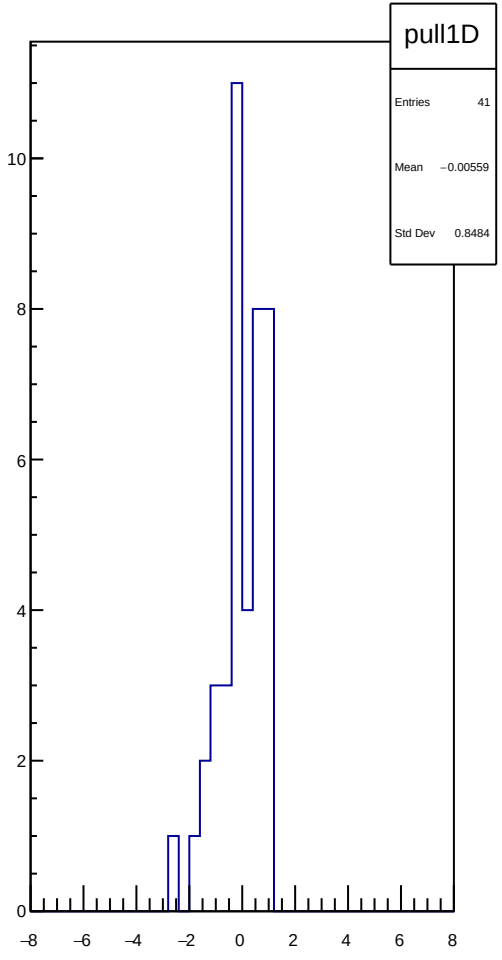

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.594e+04 / 40
p0 118.9 ± 0.1347
160
140
120
100
80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

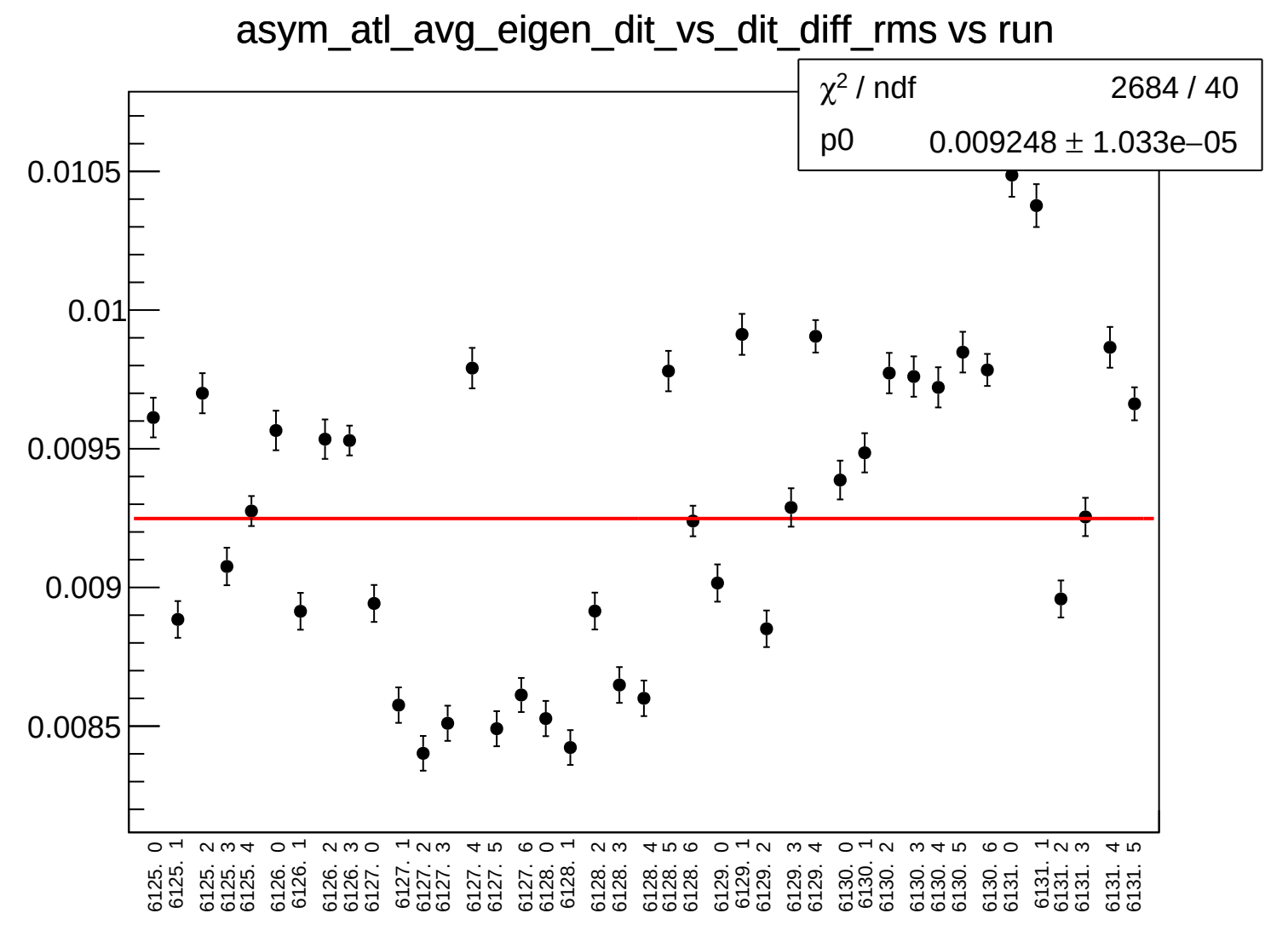

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.07 / 40
p0 0.09781 ± 0.1905
pull
Entries 41
Mean 103
Std Dev 0

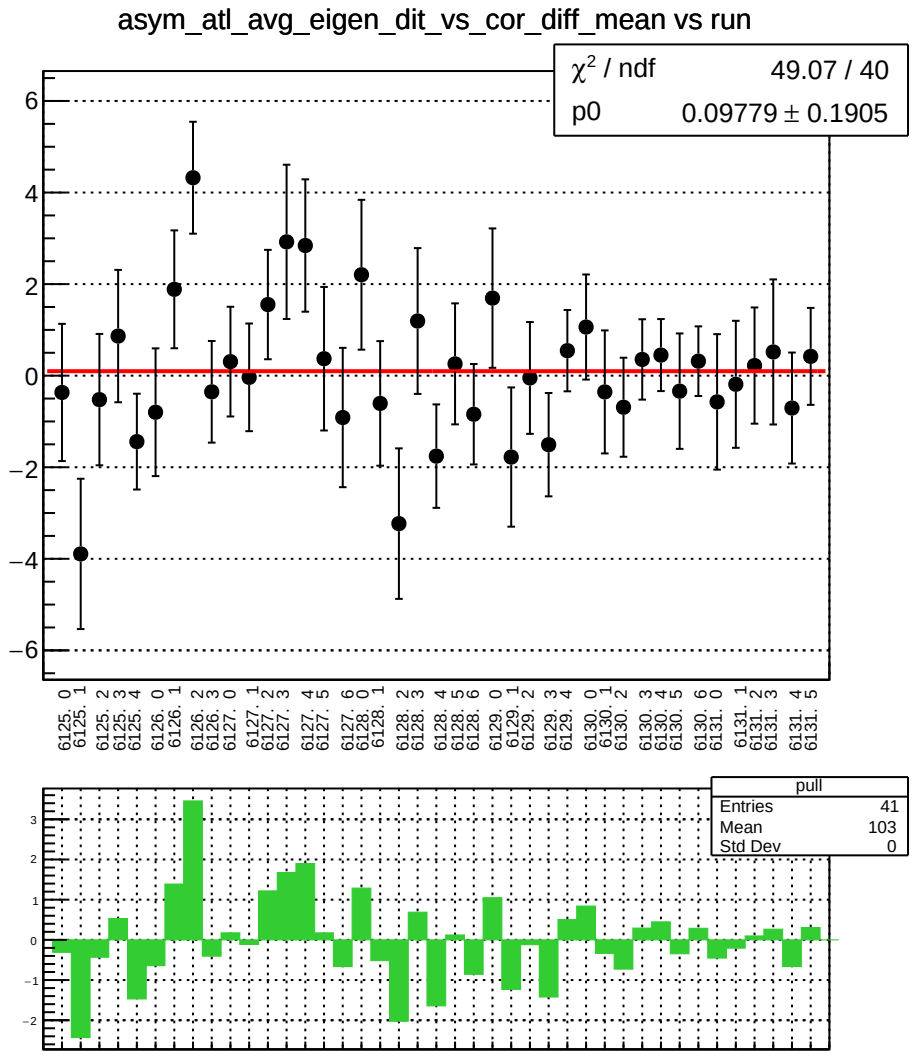

pull1D
Entries 41
Mean −0.007758
Std Dev 1.094

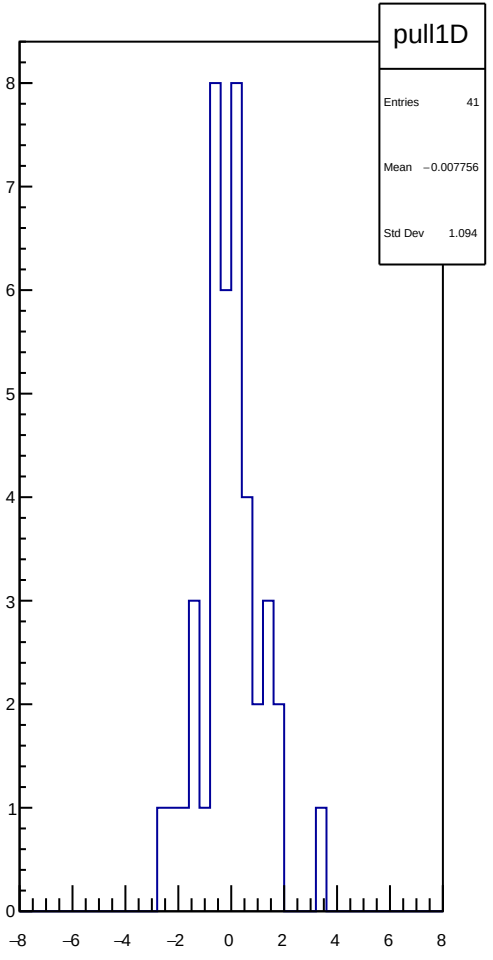

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.594e+04 / 40
p0 118.9 ± 0.1347
160
140
120
100
80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

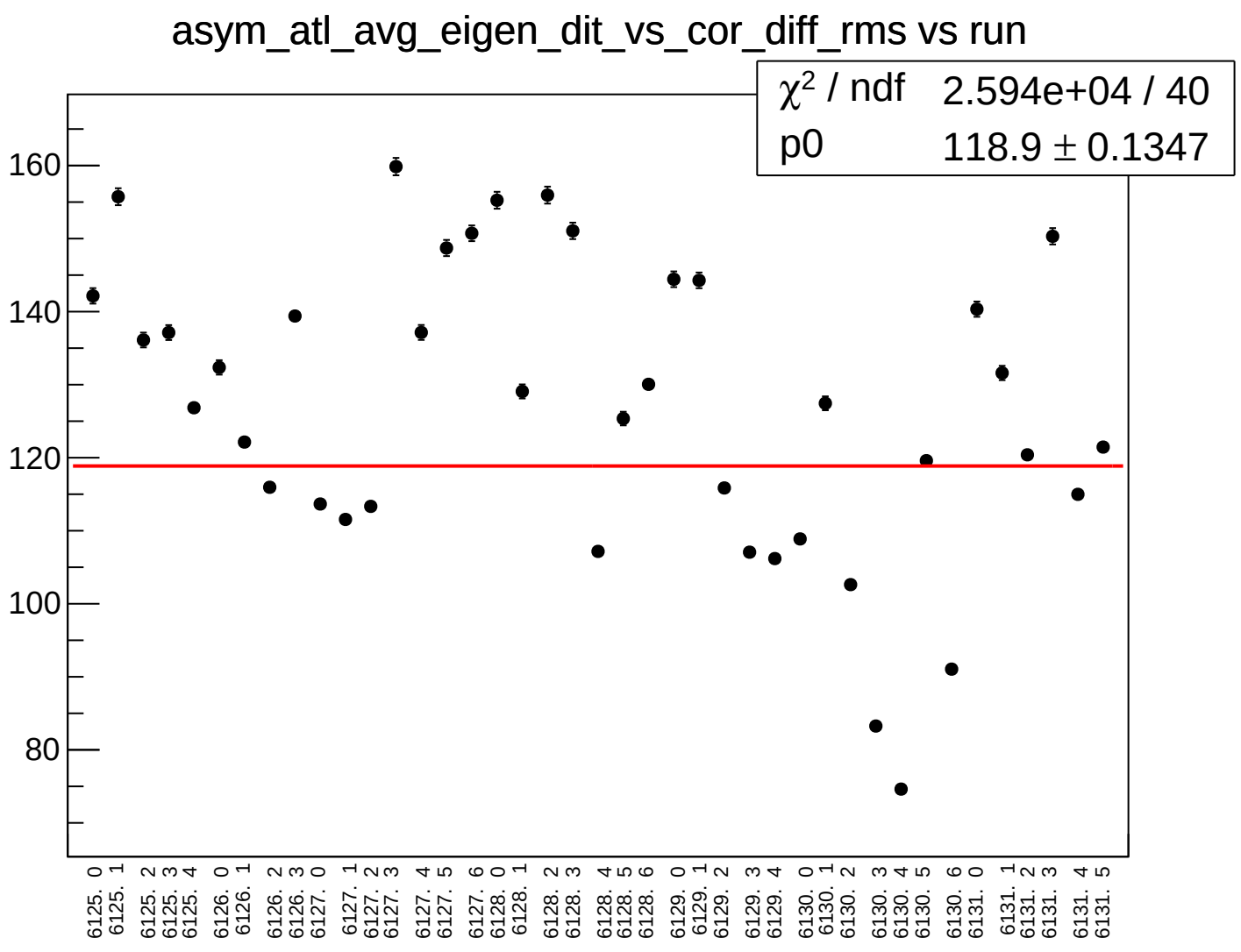

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 29.51 / 40
p0 −1.347e−05 ± 1.461e−05
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −477.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

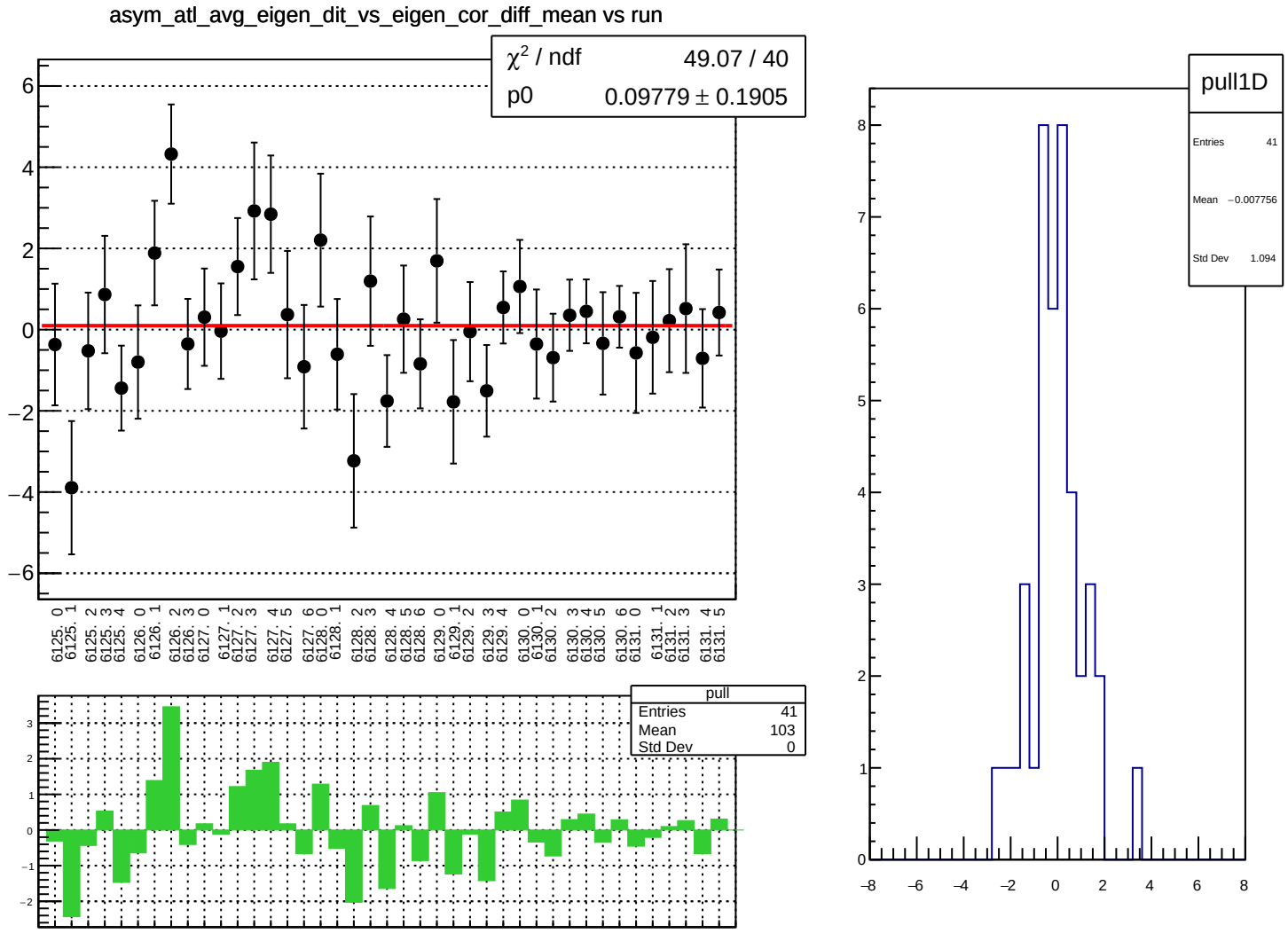

pull1D
Entries 41
Mean −0.00559
Std Dev 0.8484
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

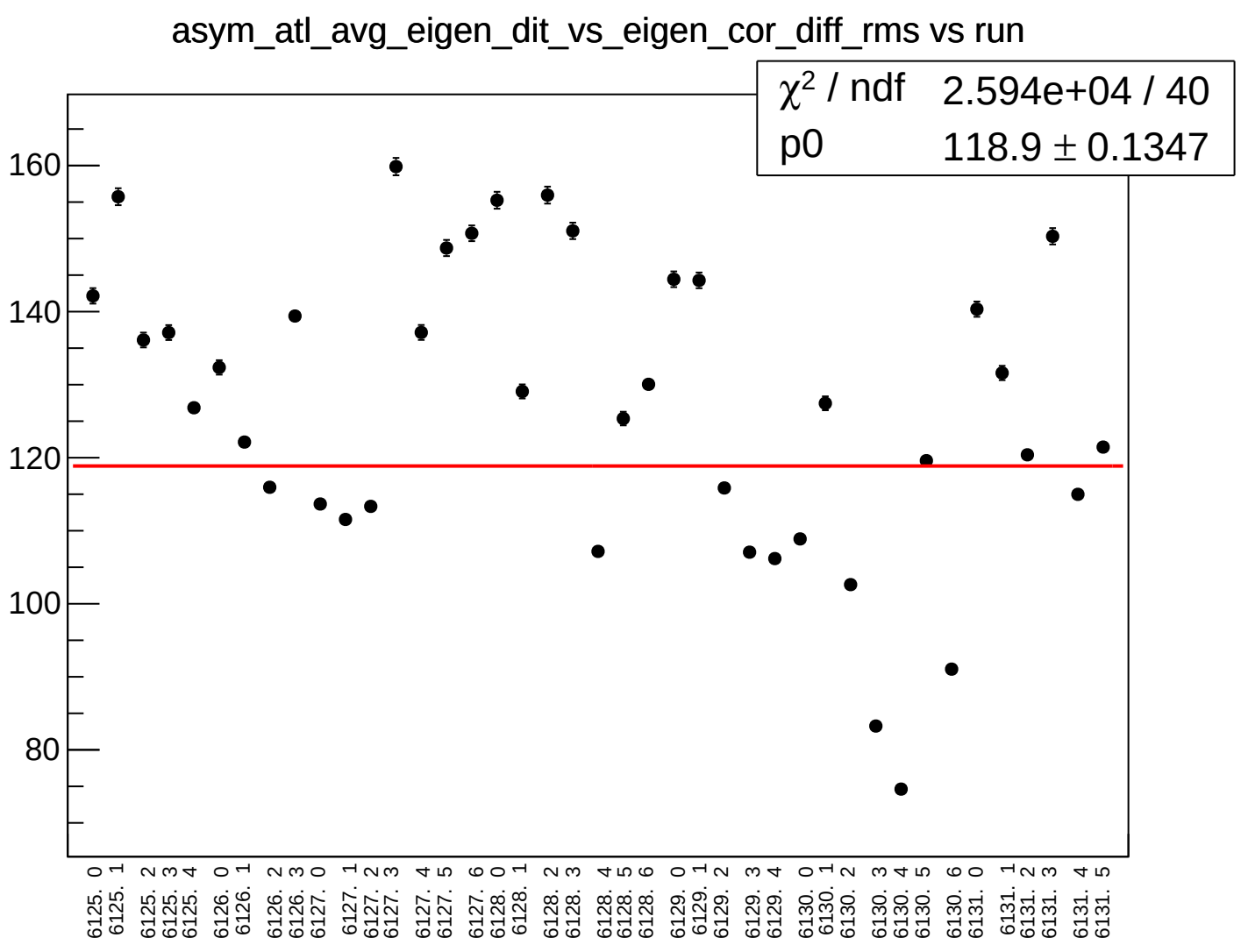

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2684 / 40
p0 0.009248 ± 1.033e−05
0.0105
0.01
0.0095
0.009
0.0085
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

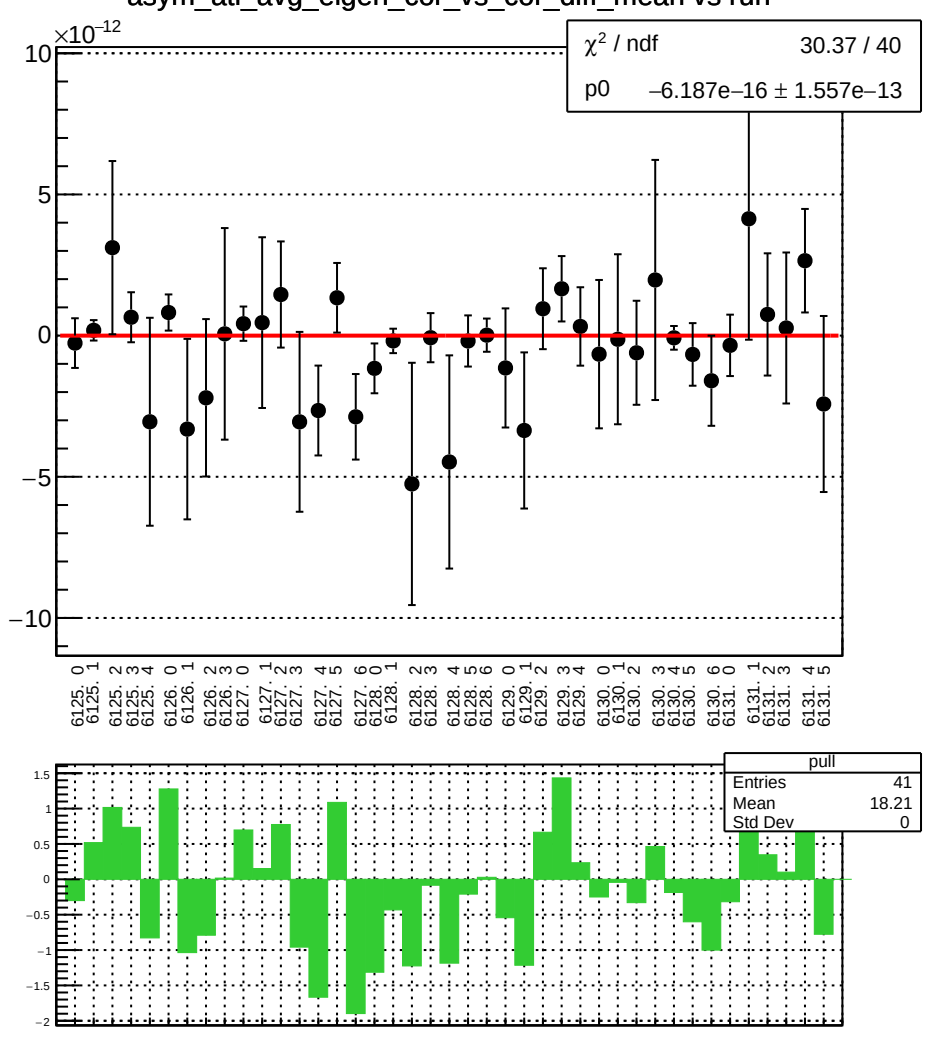

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 49.07 / 40
p0 0.09779 ± 0.1905
pull
Entries 41
Mean 103
Std Dev 0

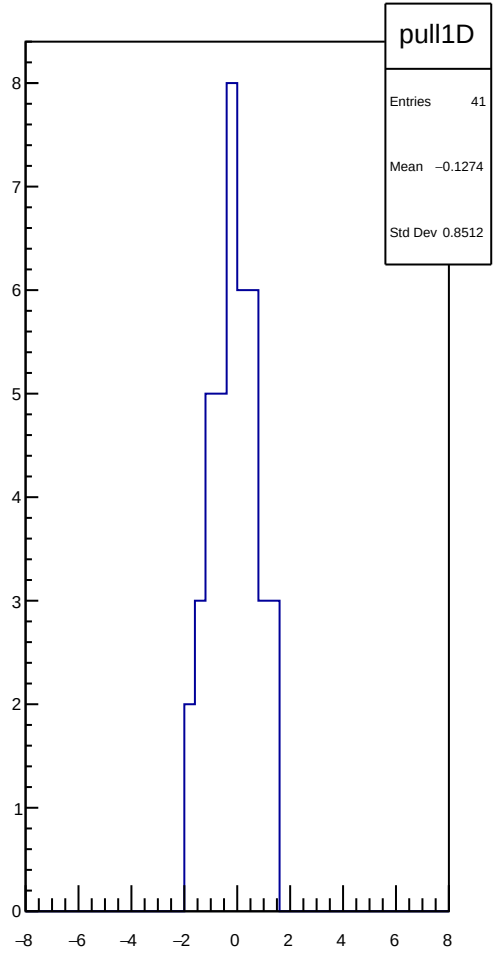

pull1D
Entries 41
Mean −0.007756
Std Dev 1.094

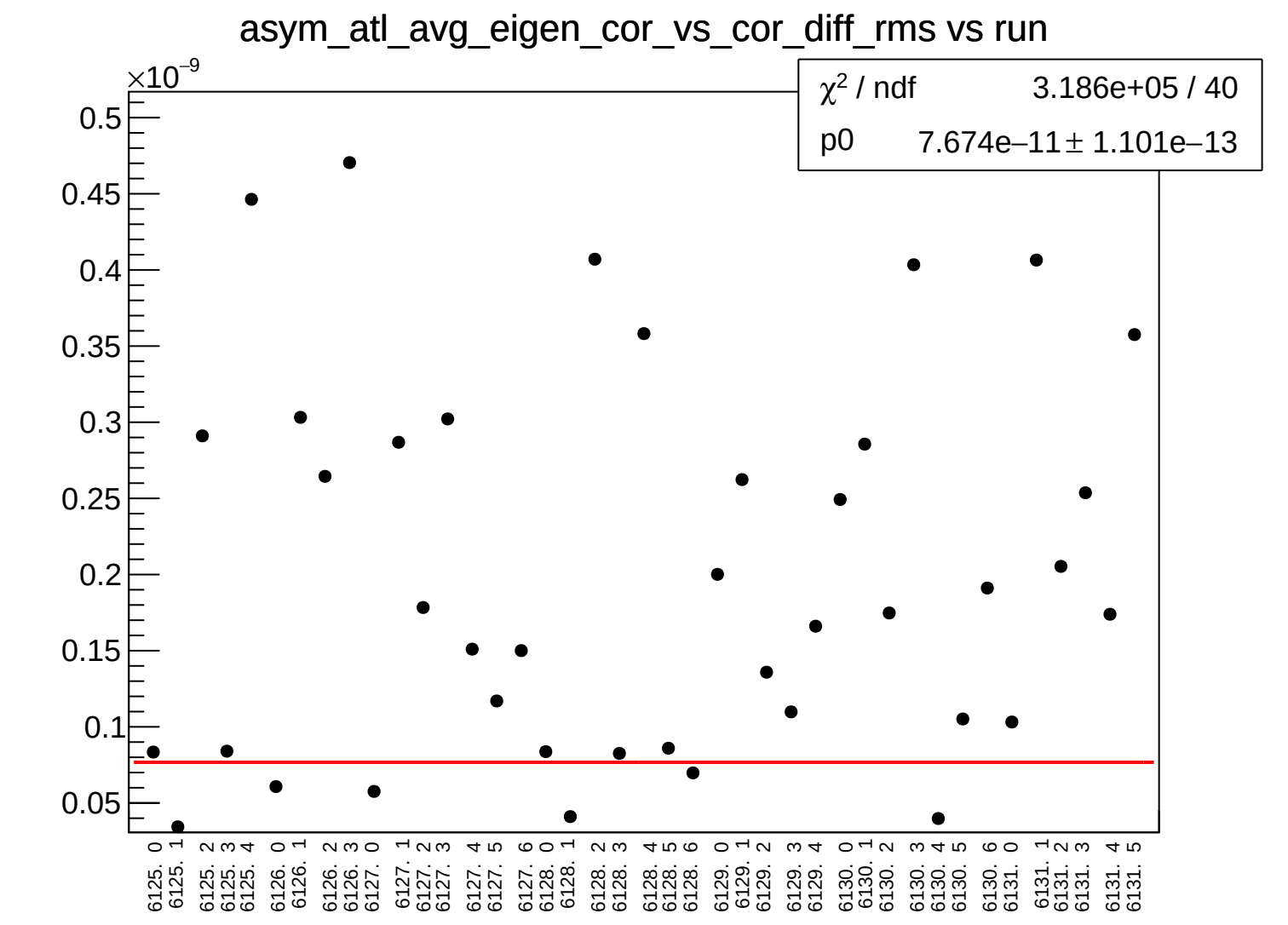

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.594e+04 / 40
p0 118.9 ± 0.1347
160
140
120
100
80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

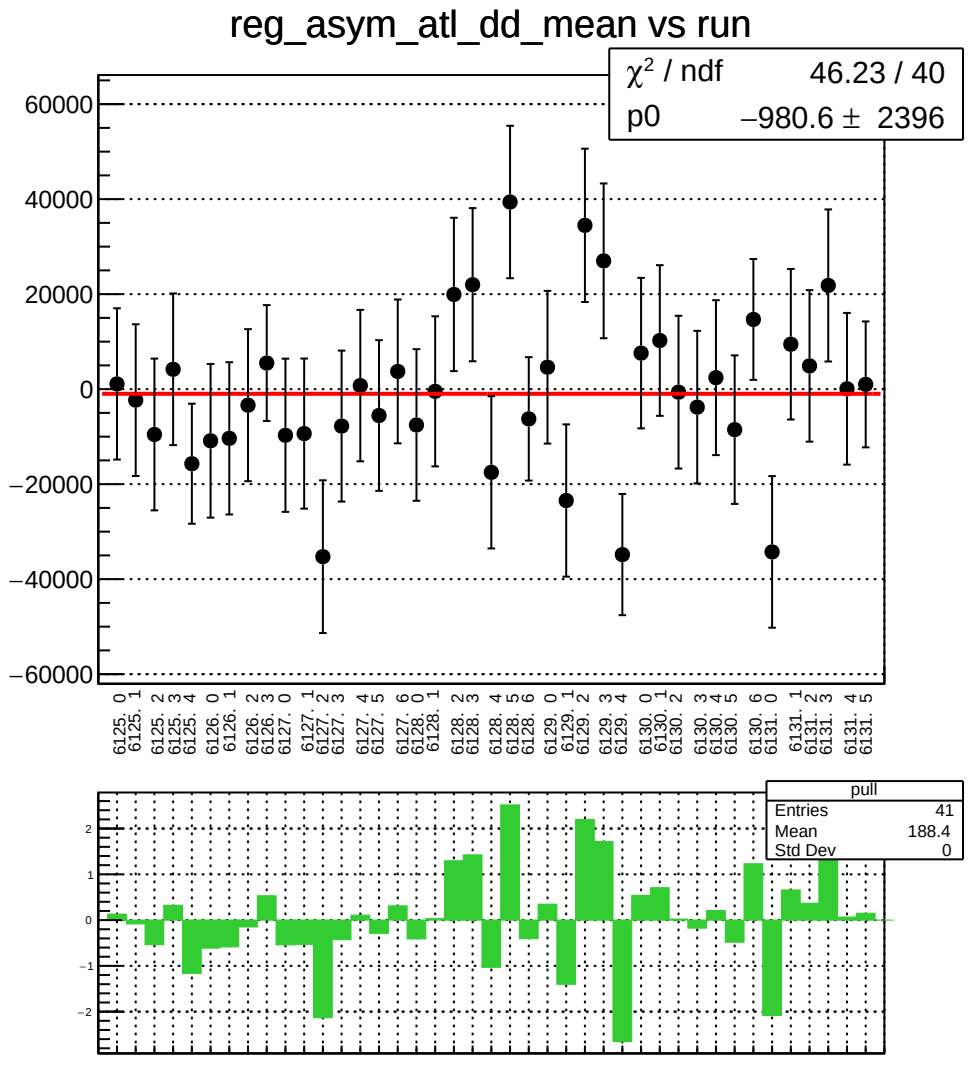

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.07 / 40
p0 0.09779 ± 0.1905
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 103
Std Dev 0
pull1D
Entries 41
Mean −0.007756
Std Dev 1.094

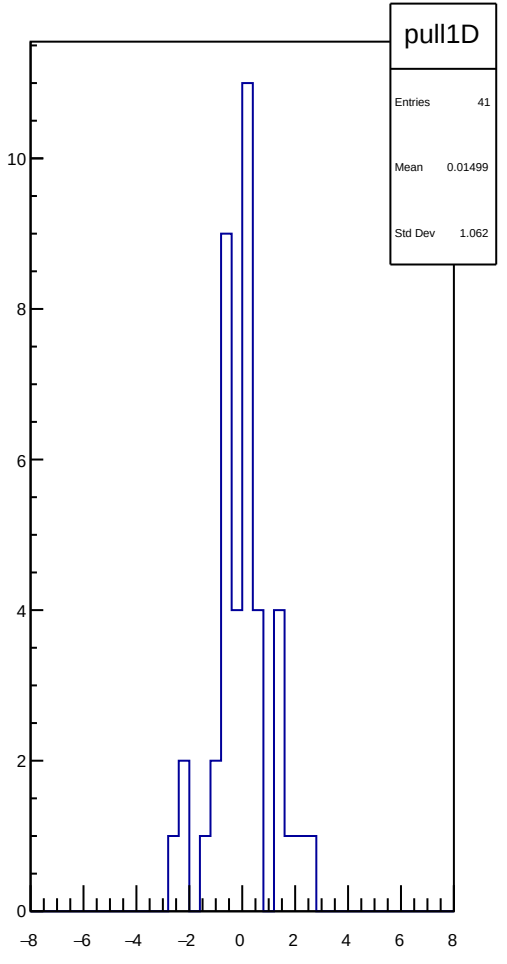

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.594e+04 / 40
p0 118.9 ± 0.1347
160
140
120
100
80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

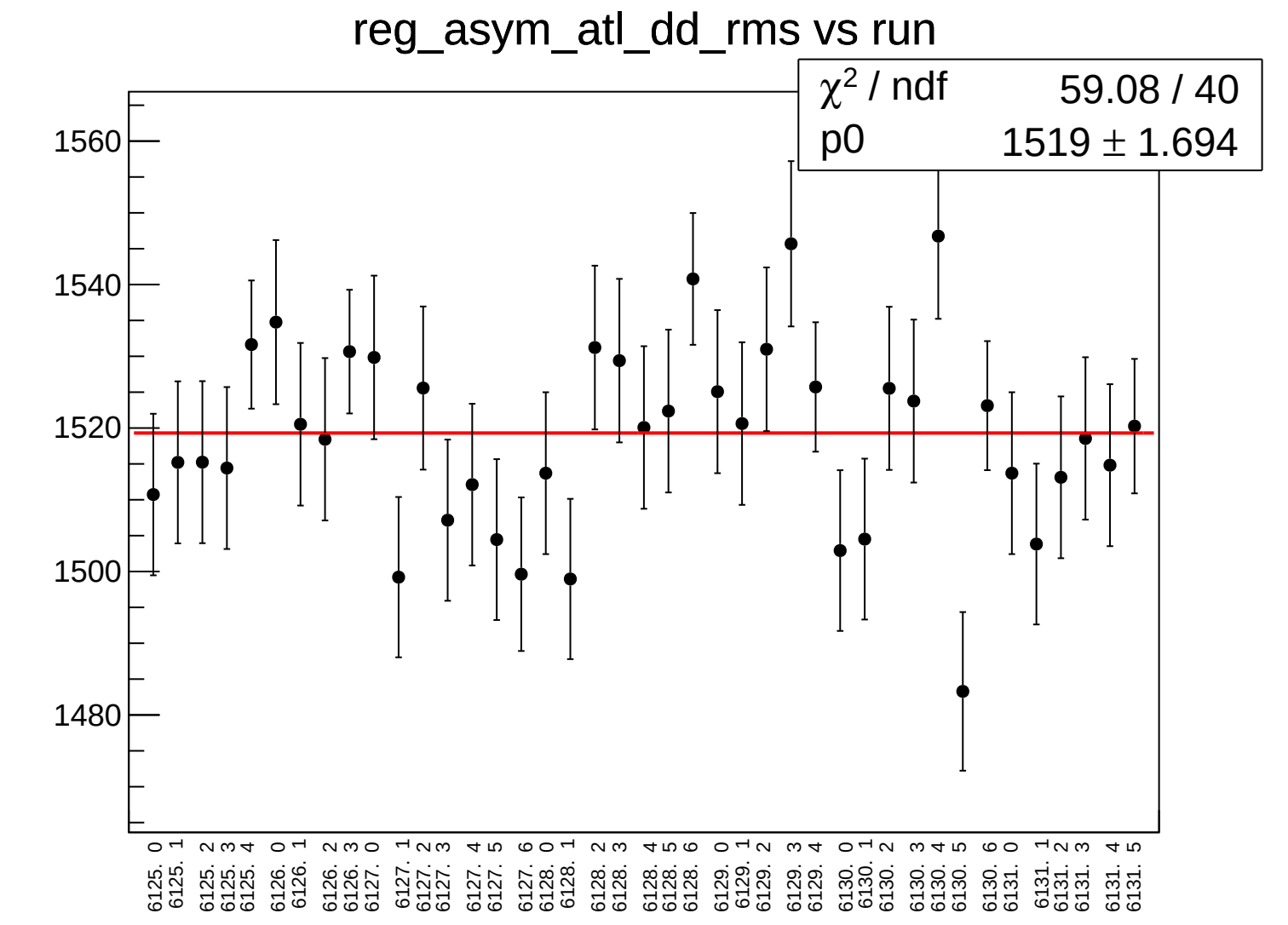

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 30.37 / 40
p0 −6.187e−16 ± 1.557e−13
pull
Entries 41
Mean 18.21
Std Dev 0

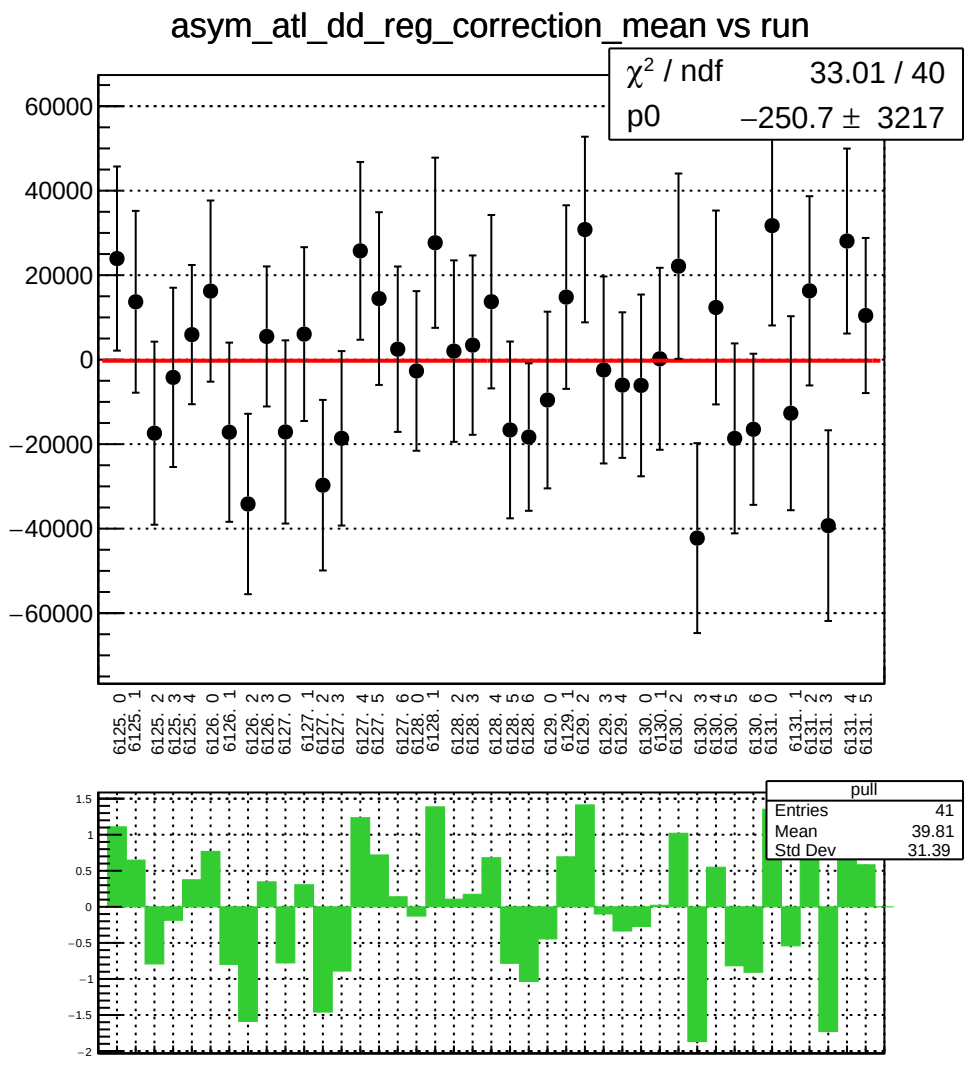

pull1D
Entries 41
Mean −0.1274
Std Dev 0.8512

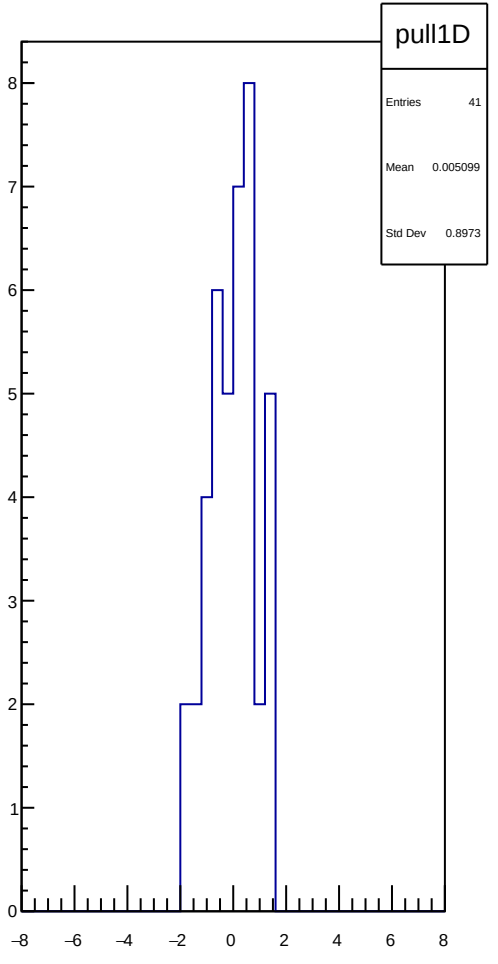

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.186e+05 / 40
p0 7.674e−11 ± 1.101e−13
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

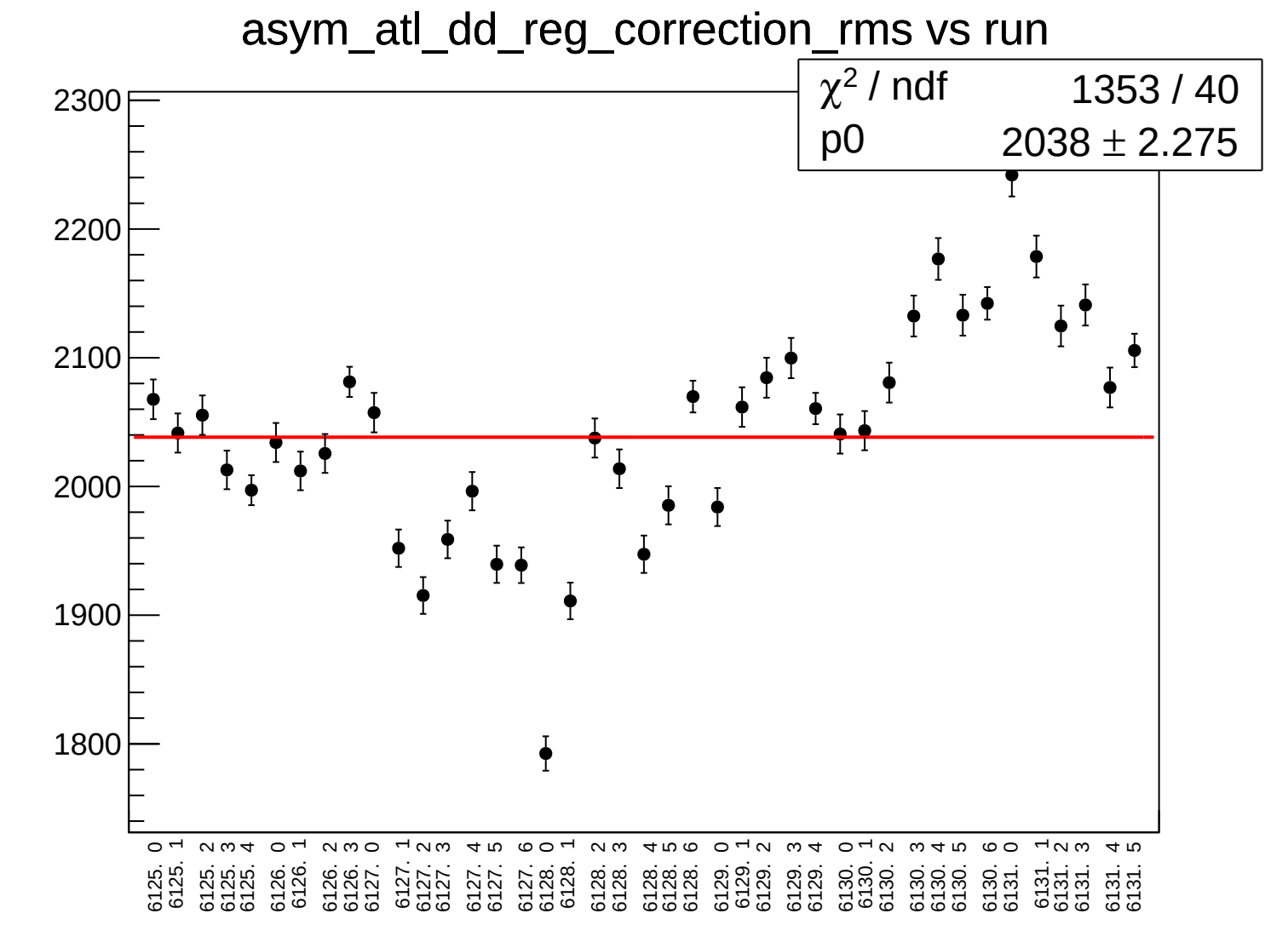

reg_asym_atl_dd_mean vs run
χ² / ndf 46.23 / 40
p0 −980.6 ± 2396
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 188.4
Std Dev 0
2
1
0
−1
−2

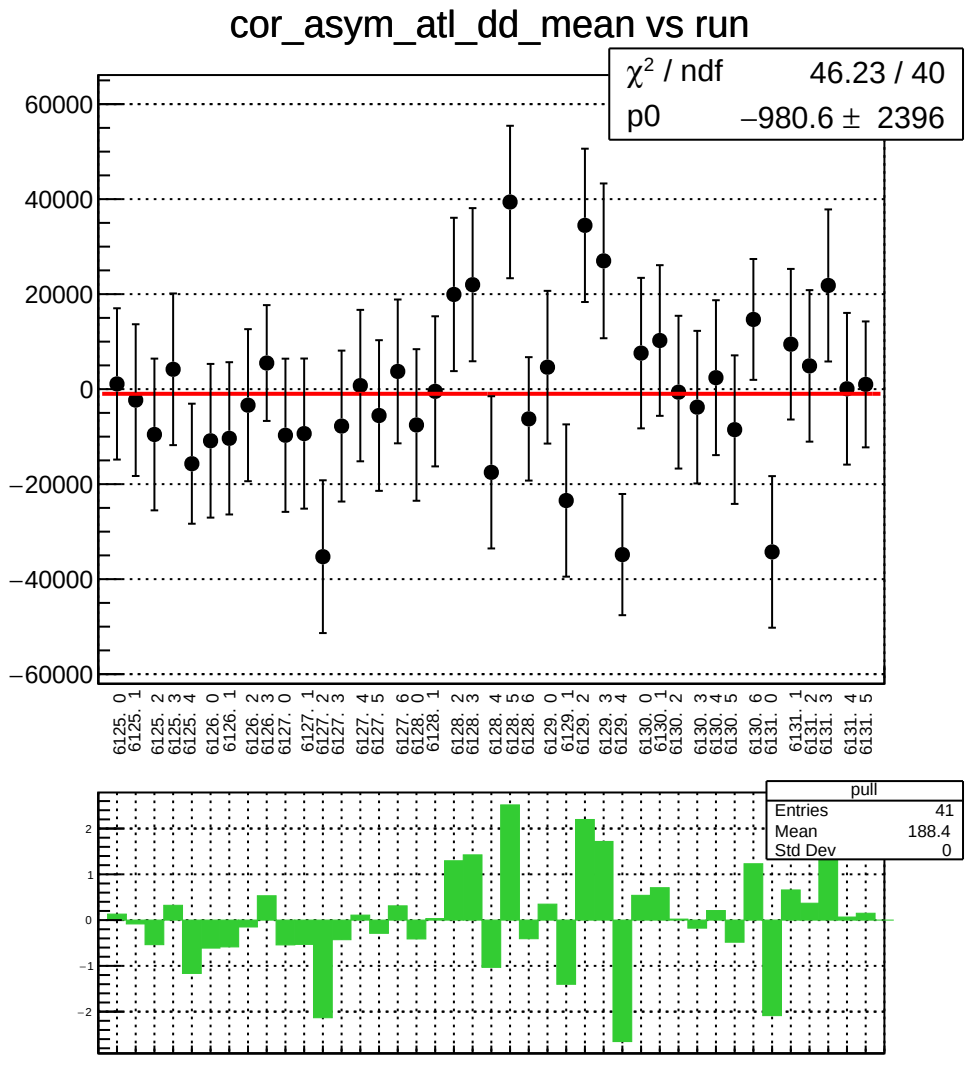

pull1D
Entries 41
Mean 0.01499
Std Dev 1.062
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

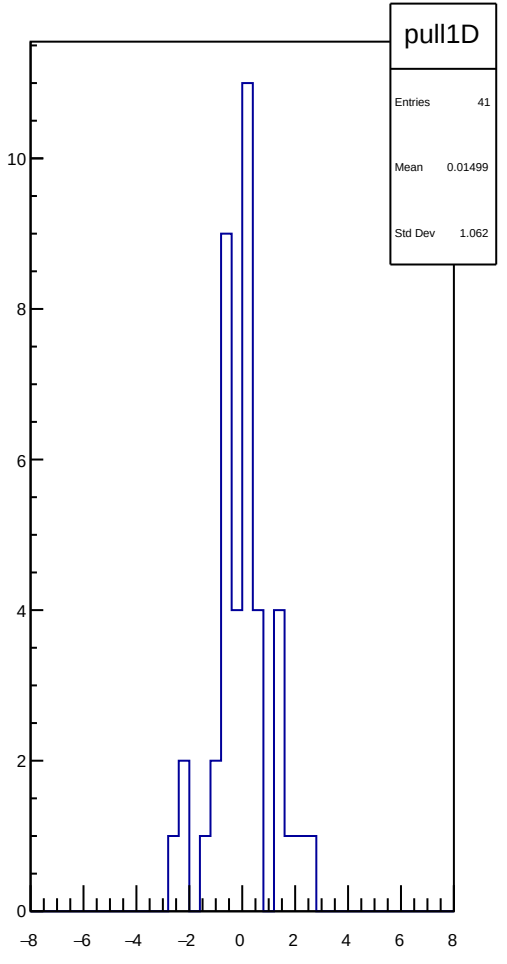

reg_asym_atl_dd_rms vs run
χ² / ndf 59.08 / 40
p0 1519 ± 1.694
1560
1540
1520
1500
1480
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

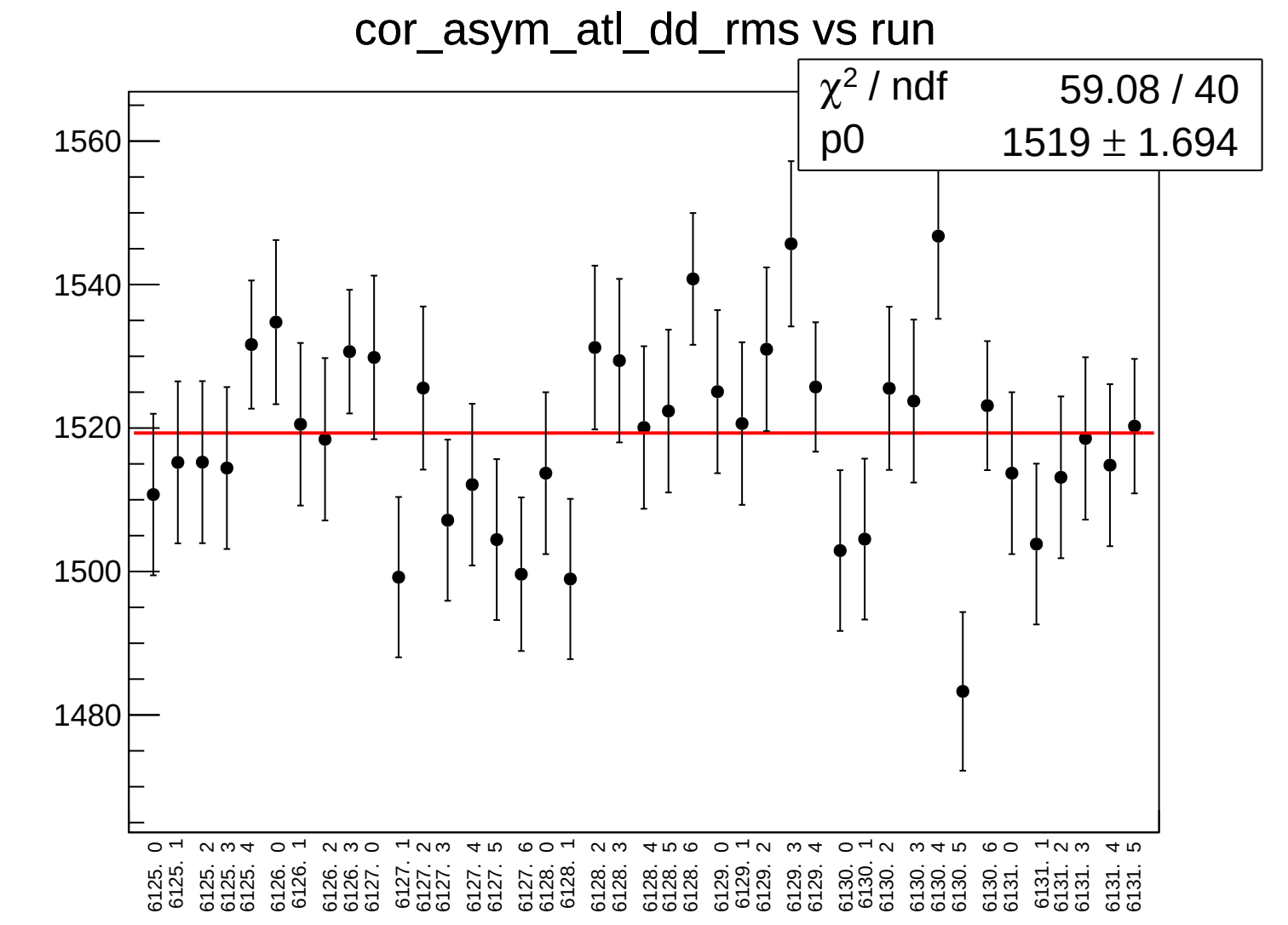

asym_atl_dd_reg_correction_mean vs run
χ² / ndf 33.01 / 40
p0 −250.7 ± 3217
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 39.81
Std Dev 31.39
1.5
1
0.5
0
−0.5
−1
−1.5
−2

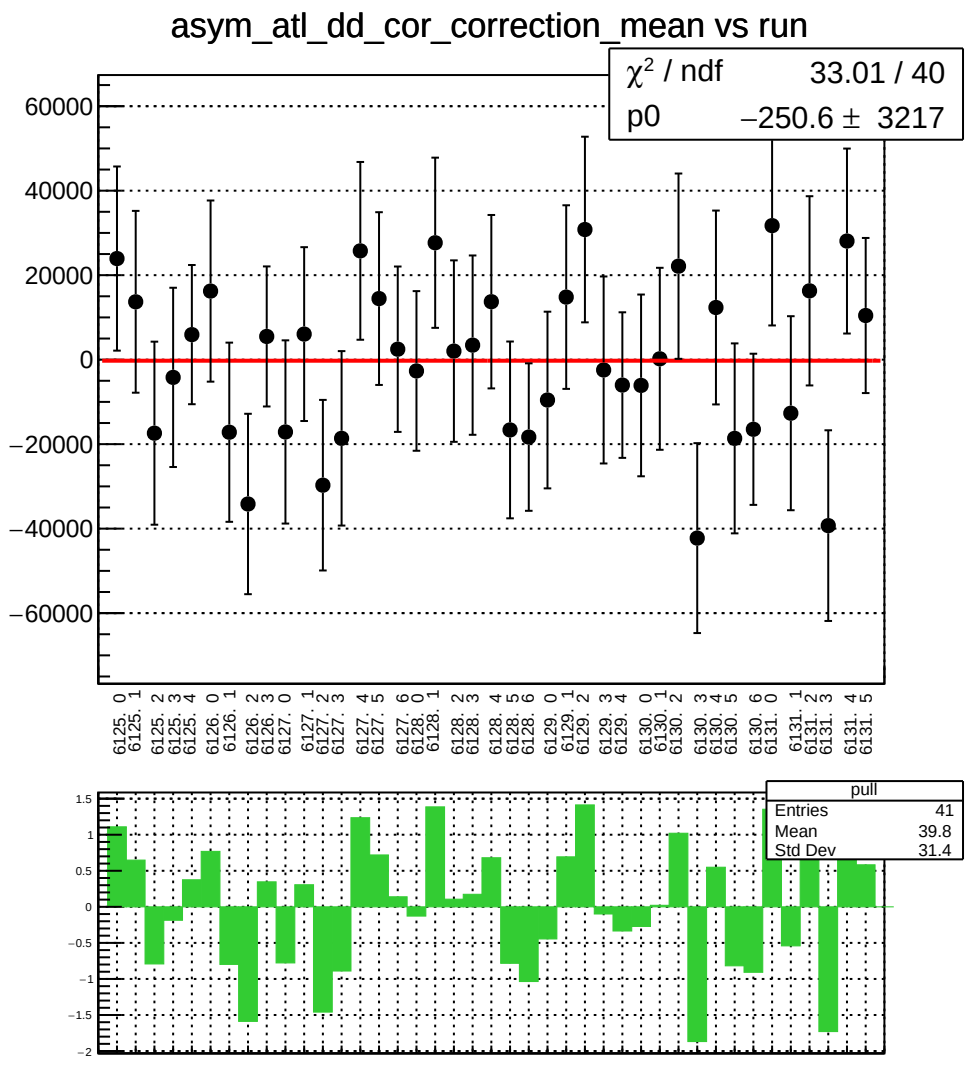

pull1D
Entries 41
Mean 0.005099
Std Dev 0.8973
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

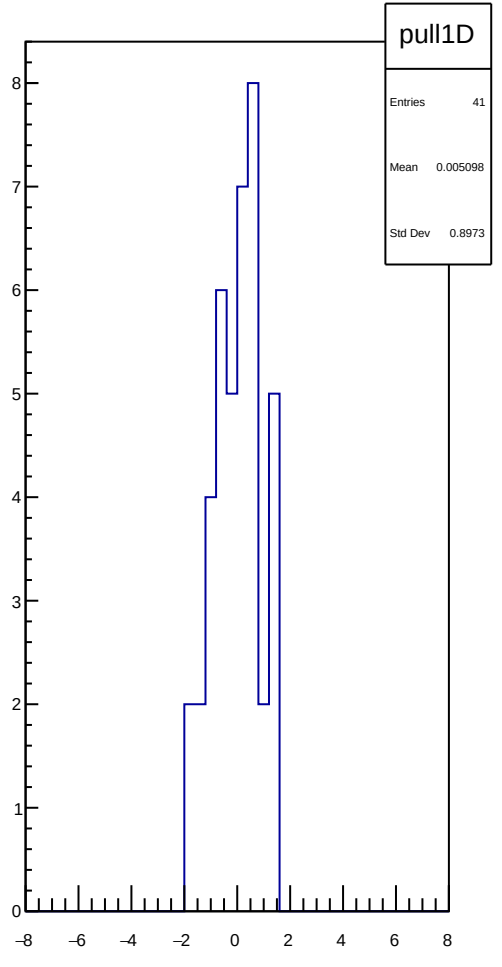

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 1353 / 40
p0 2038 ± 2.275
2300
2200
2100
2000
1900
1800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

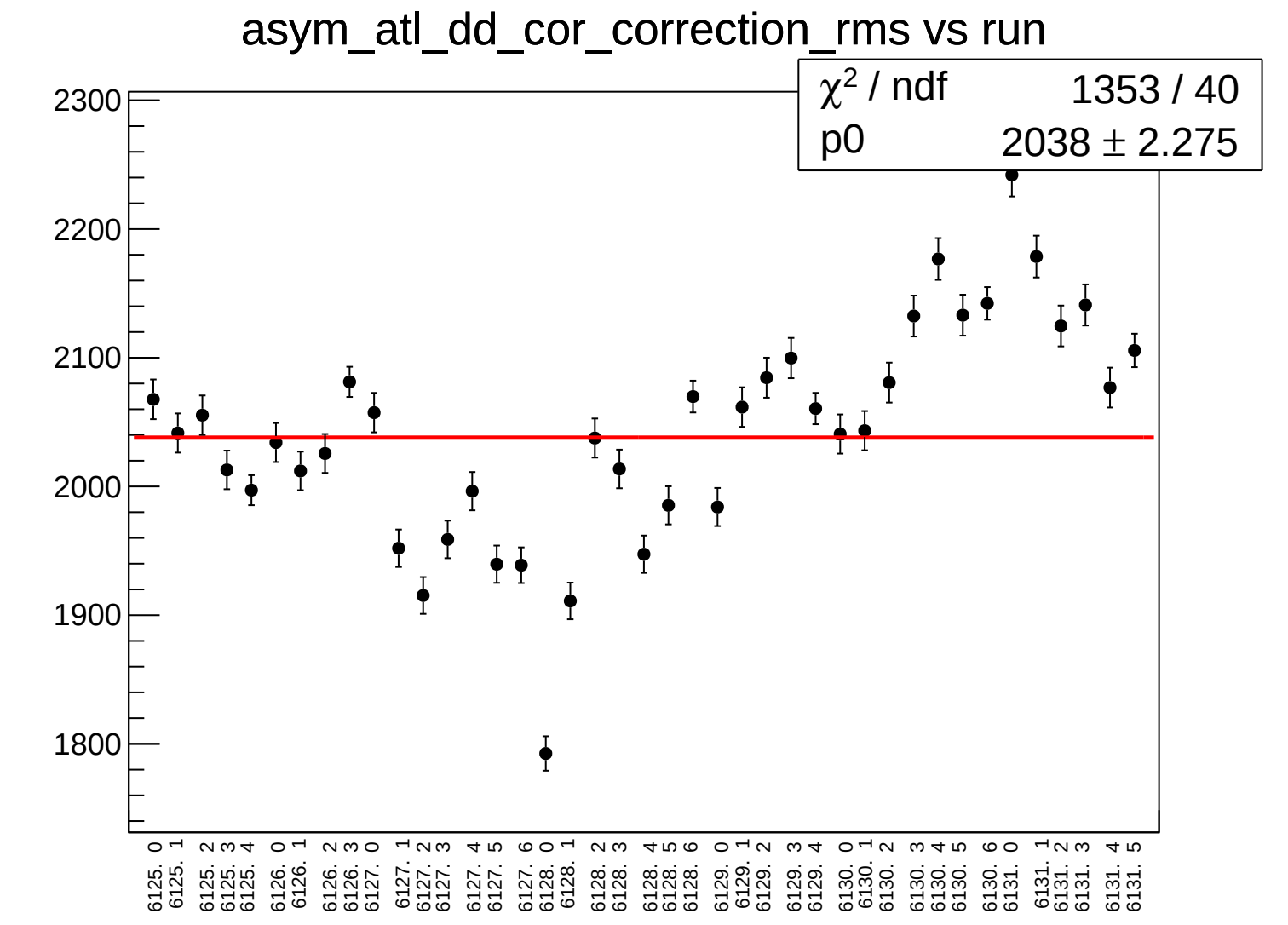

cor_asym_atl_dd_mean vs run
χ² / ndf 46.23 / 40
p0 −980.6 ± 2396
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 188.4
Std Dev 0
2
1
0
−1
−2

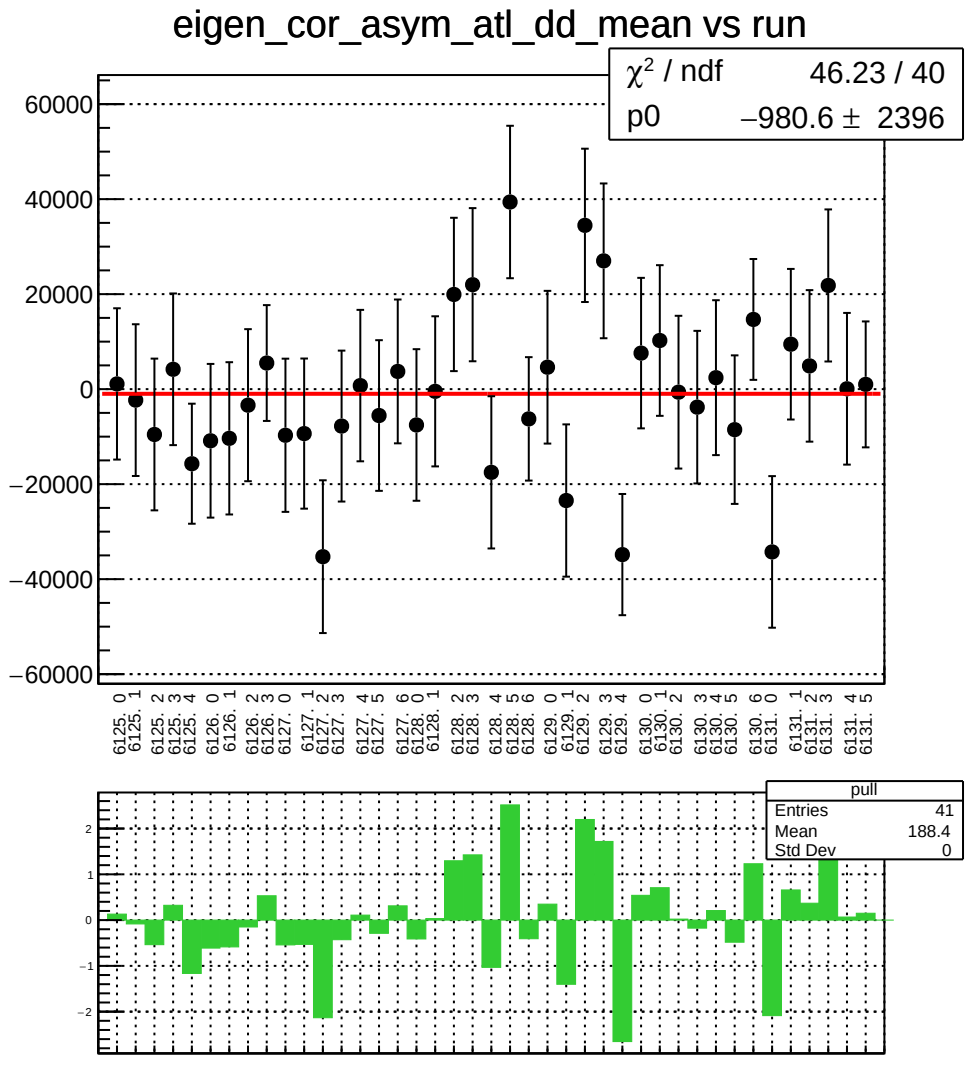

pull1D
Entries 41
Mean 0.01499
Std Dev 1.062
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

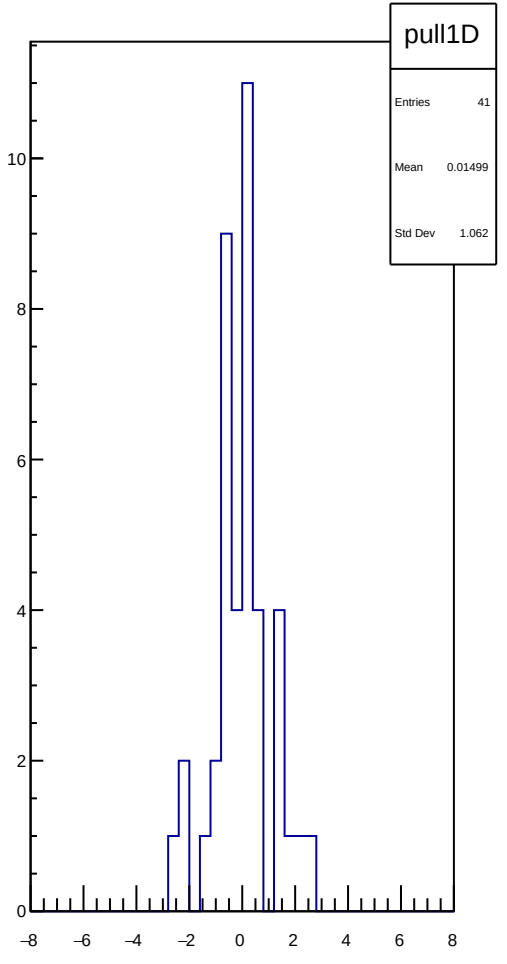

cor_asym_atl_dd_rms vs run
χ² / ndf 59.08 / 40
p0 1519 ± 1.694
1560
1540
1520
1500
1480
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

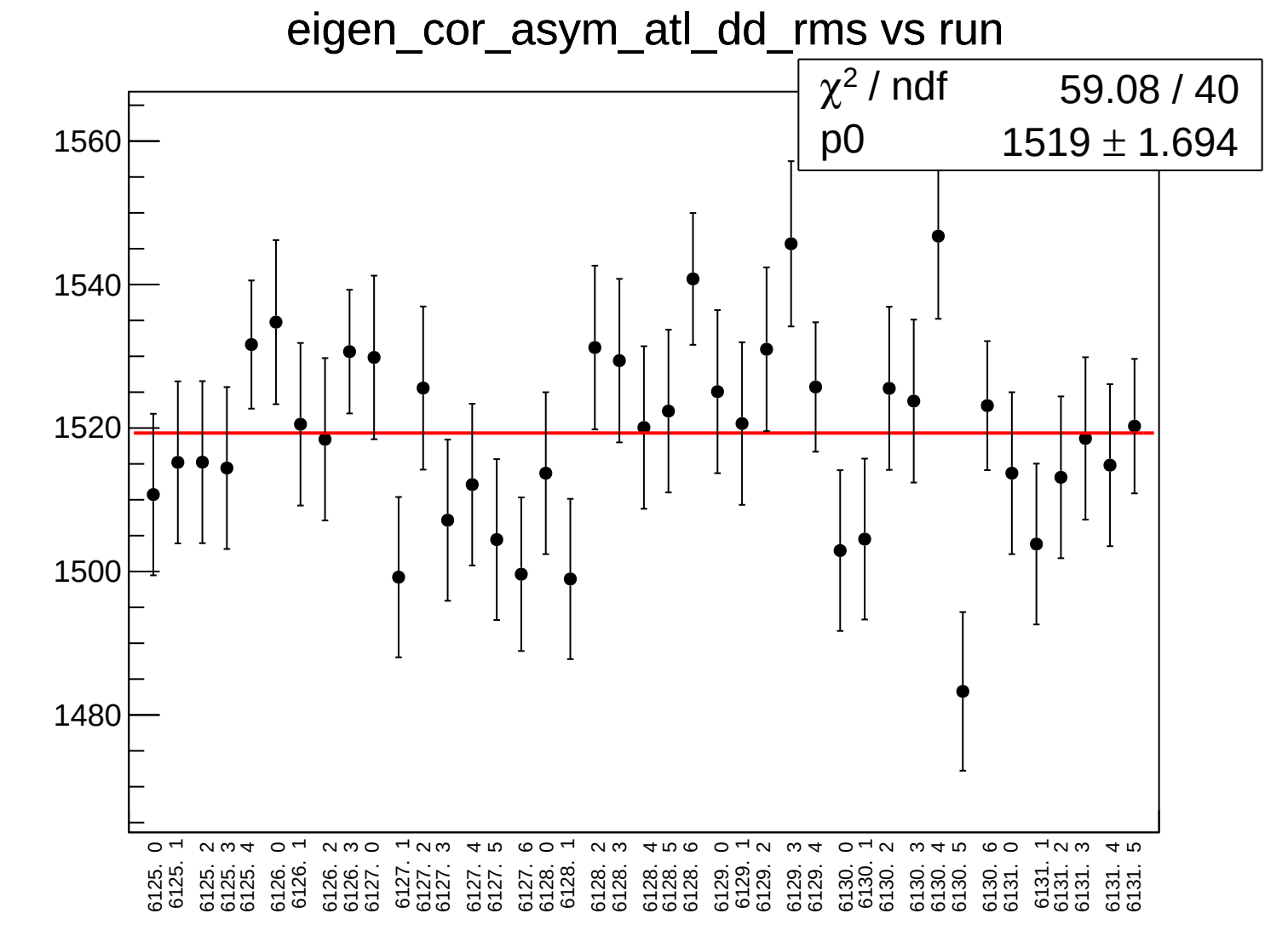

asym_atl_dd_cor_correction_mean vs run
χ² / ndf 33.01 / 40
p0 −250.6 ± 3217
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 39.8
Std Dev 31.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2

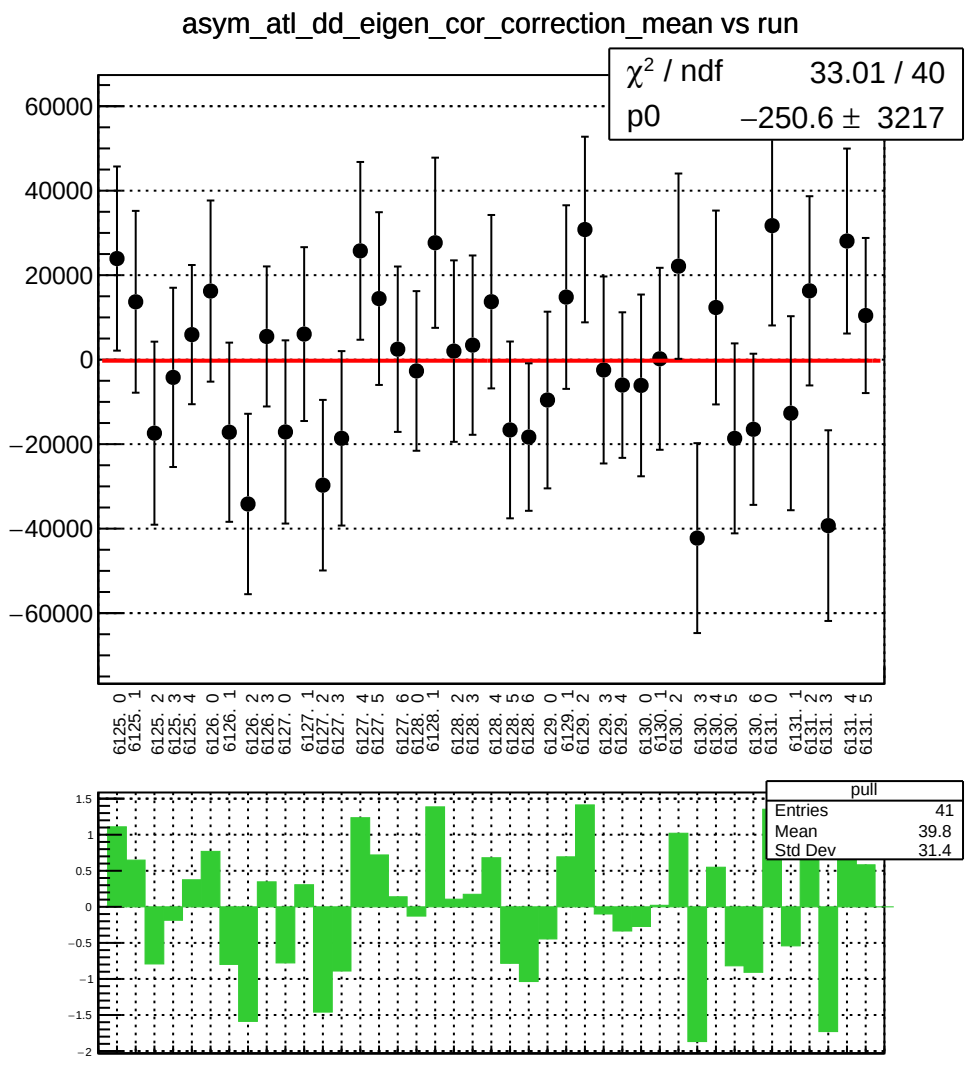

pull1D
Entries 41
Mean 0.005098
Std Dev 0.8973
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

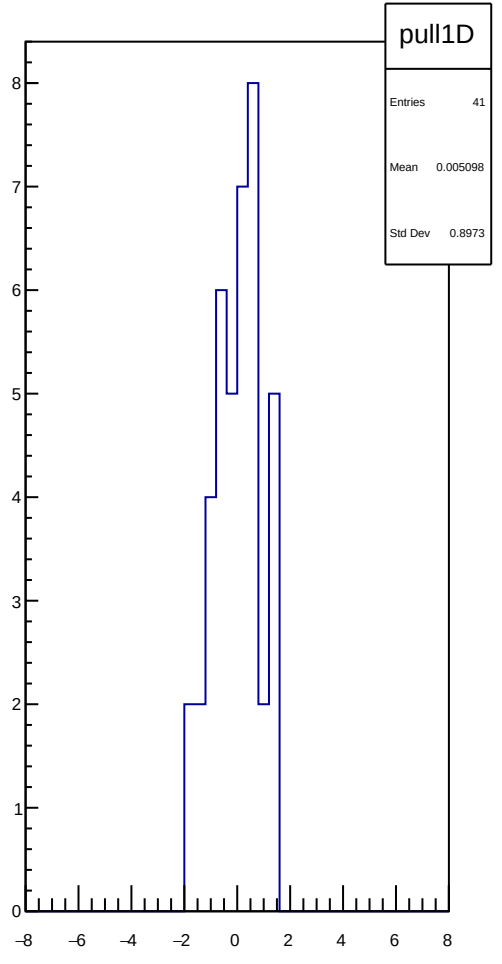

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 1353 / 40
p0 2038 ± 2.275
2300
2200
2100
2000
1900
1800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

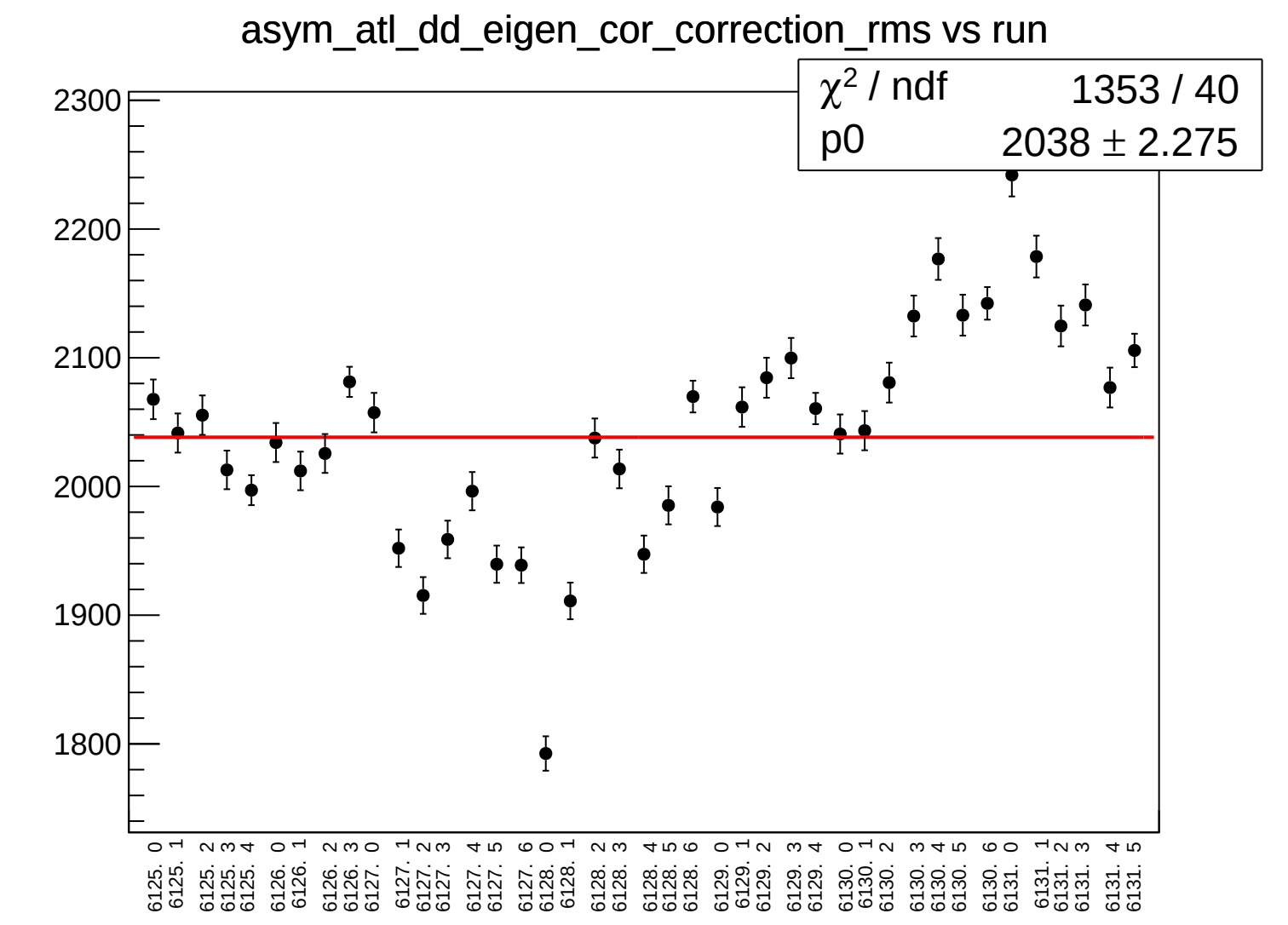

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 46.23 / 40
p0 −980.6 ± 2396
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 188.4
Std Dev 0
2
1
0
−1
−2

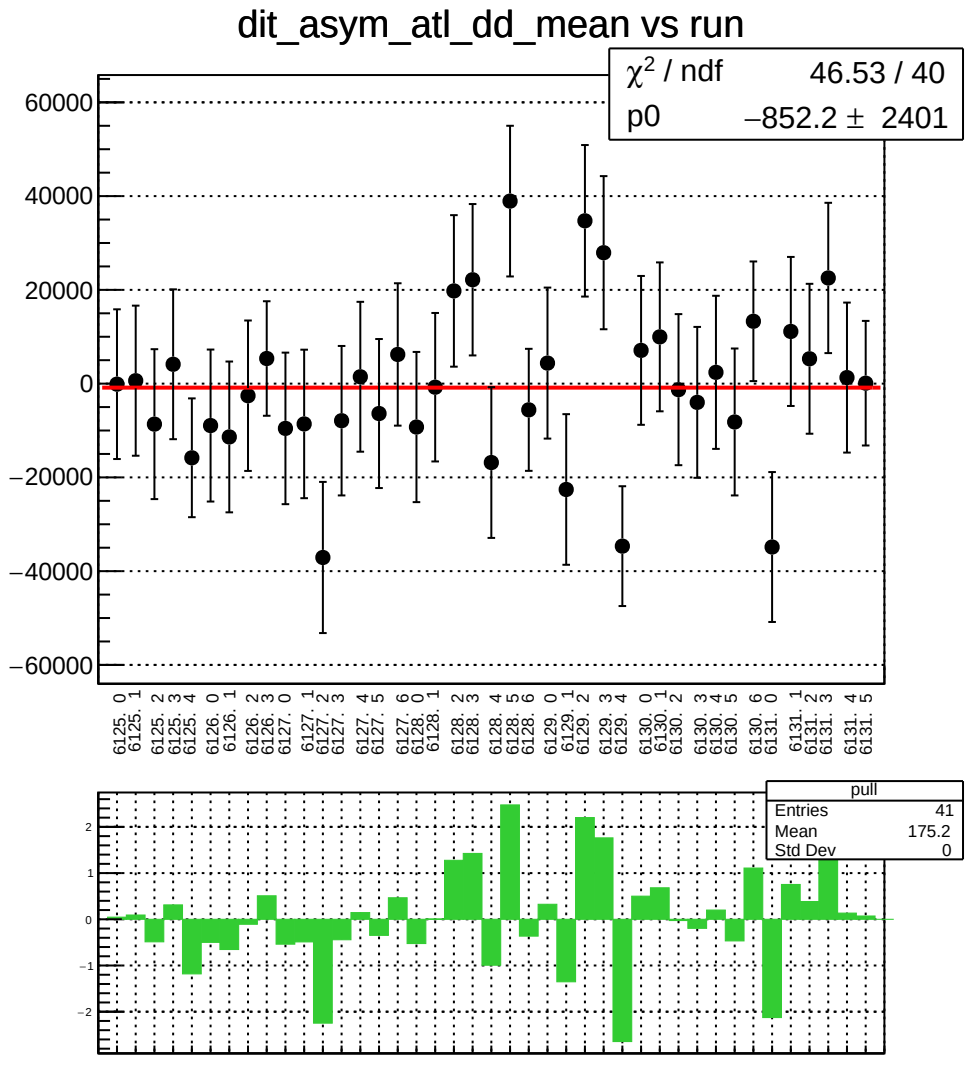

pull1D
Entries 41
Mean 0.01499
Std Dev 1.062
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

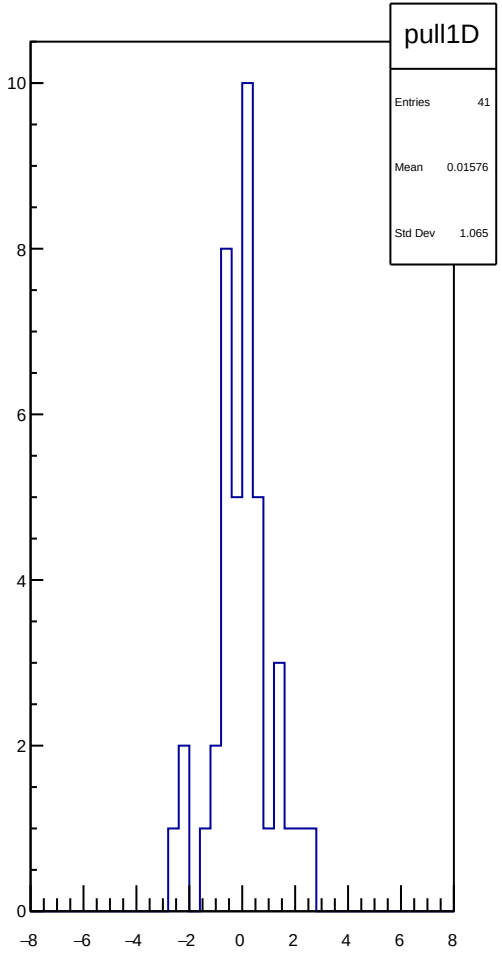

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 59.08 / 40
p0 1519 ± 1.694
1560
1540
1520
1500
1480
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

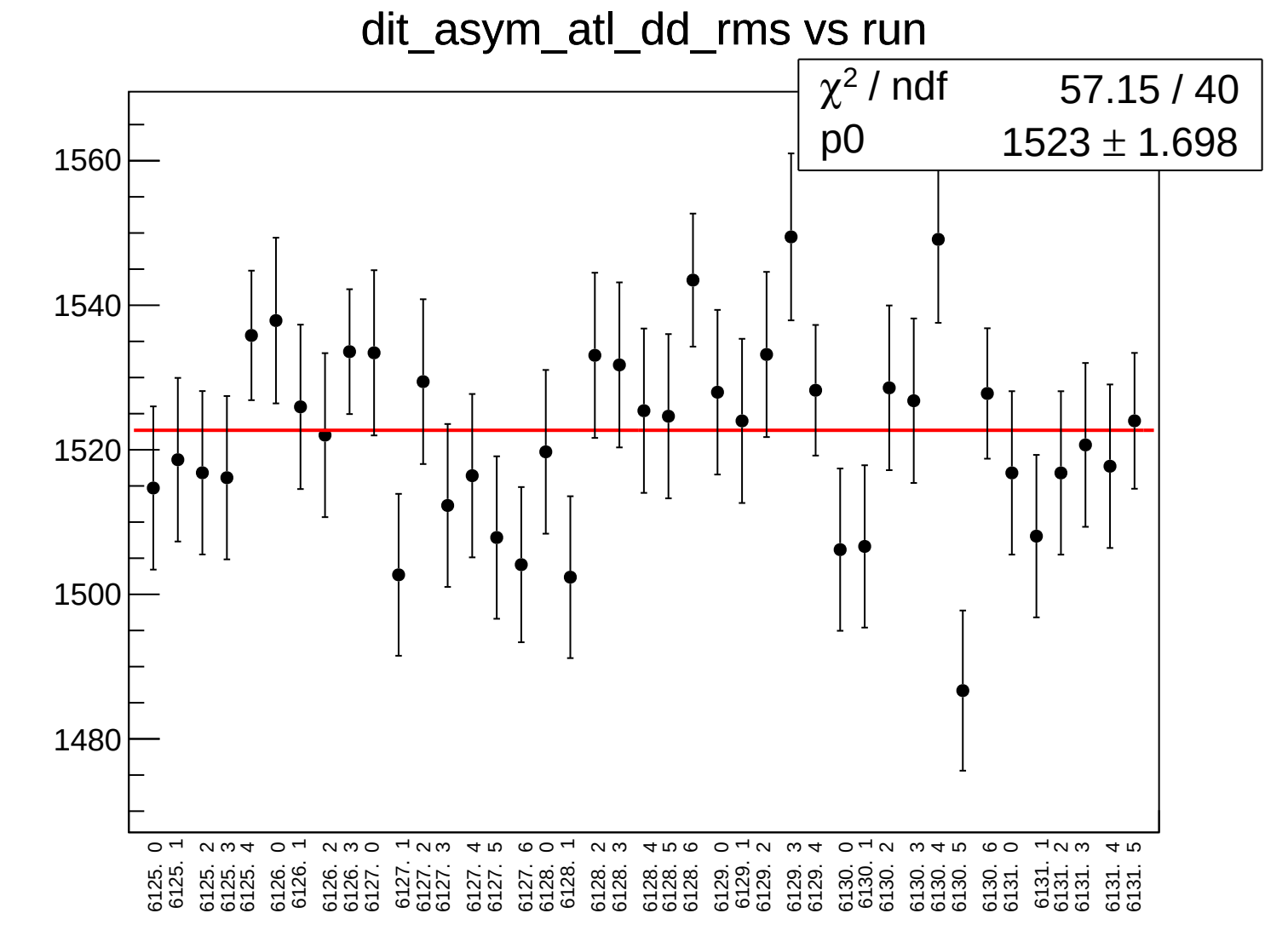

asym_atl_dd_eigen_cor_correction_mean vs run
χ² / ndf 33.01 / 40
p0 −250.6 ± 3217
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 39.8
Std Dev 31.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2

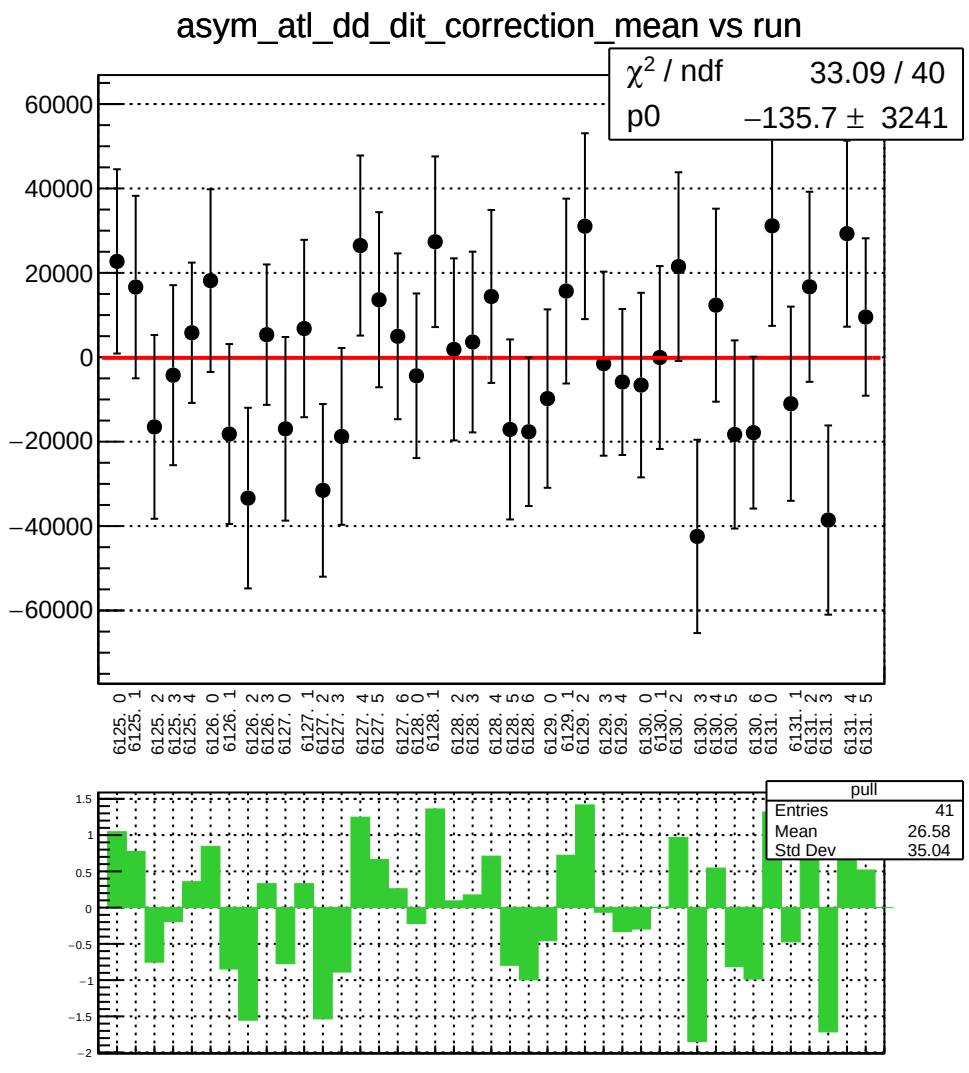

pull1D
Entries 41
Mean 0.005098
Std Dev 0.8973
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

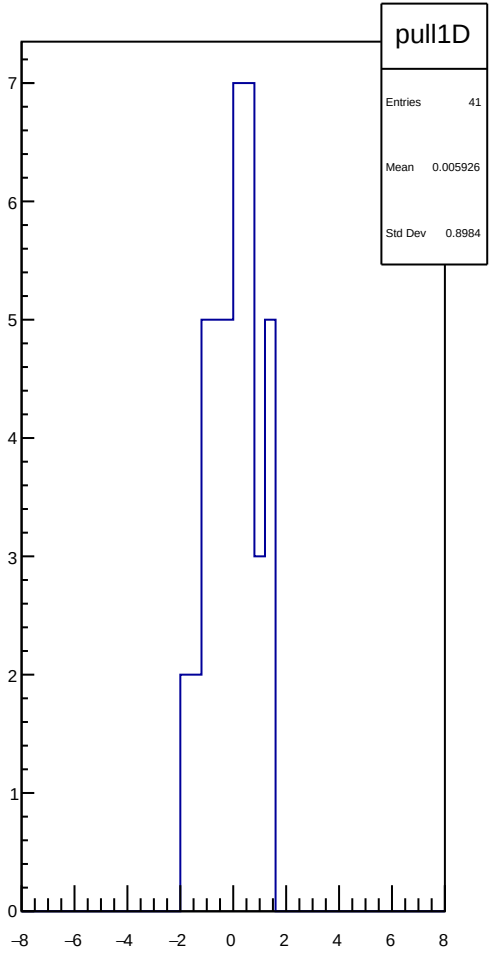

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 1353 / 40
p0 2038 ± 2.275
2300
2200
2100
2000
1900
1800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

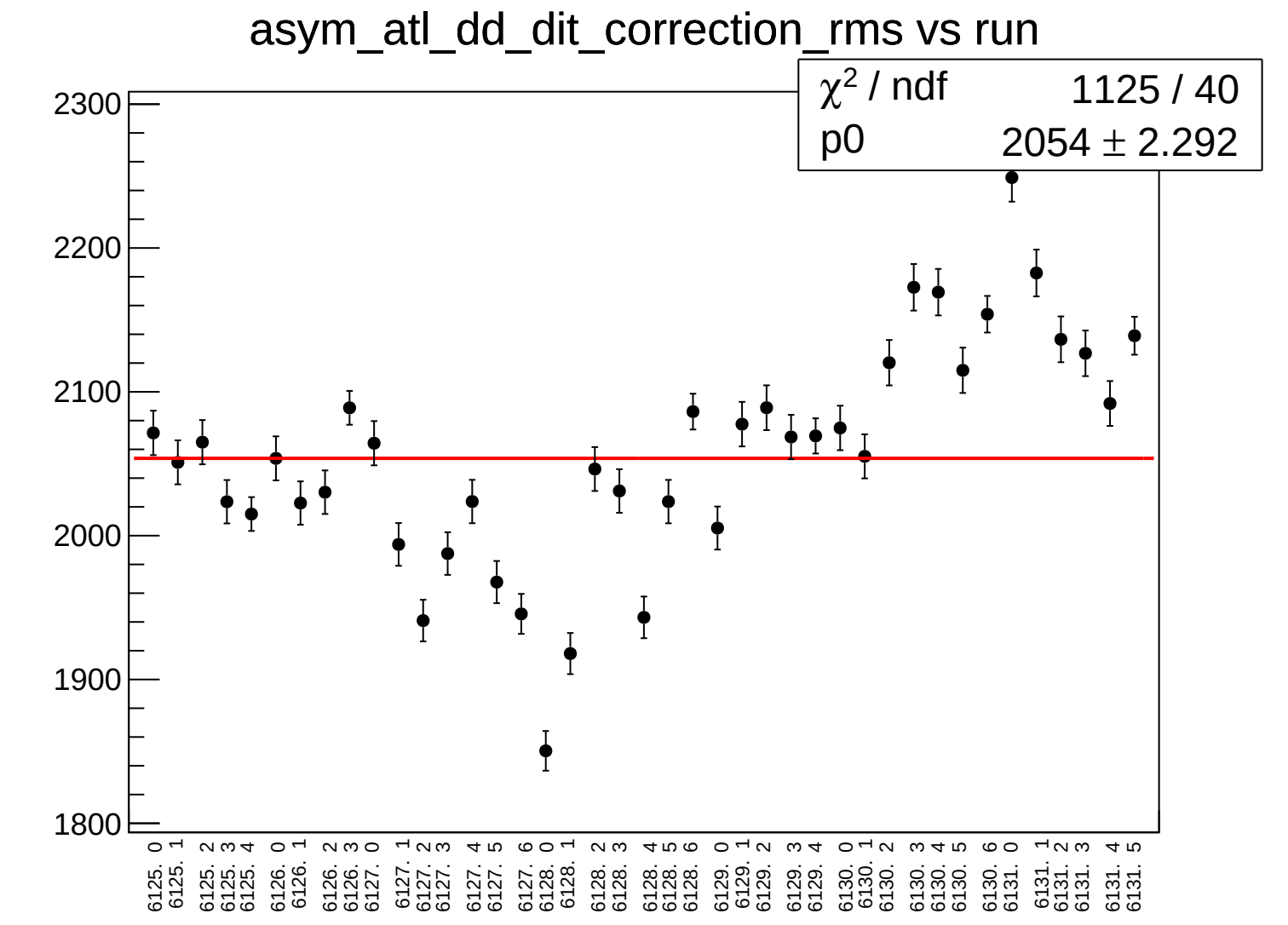

dit_asym_atl_dd_mean vs run
χ² / ndf 46.53 / 40
p0 −852.2 ± 2401
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 175.2
Std Dev 0
2
1
0
−1
−2

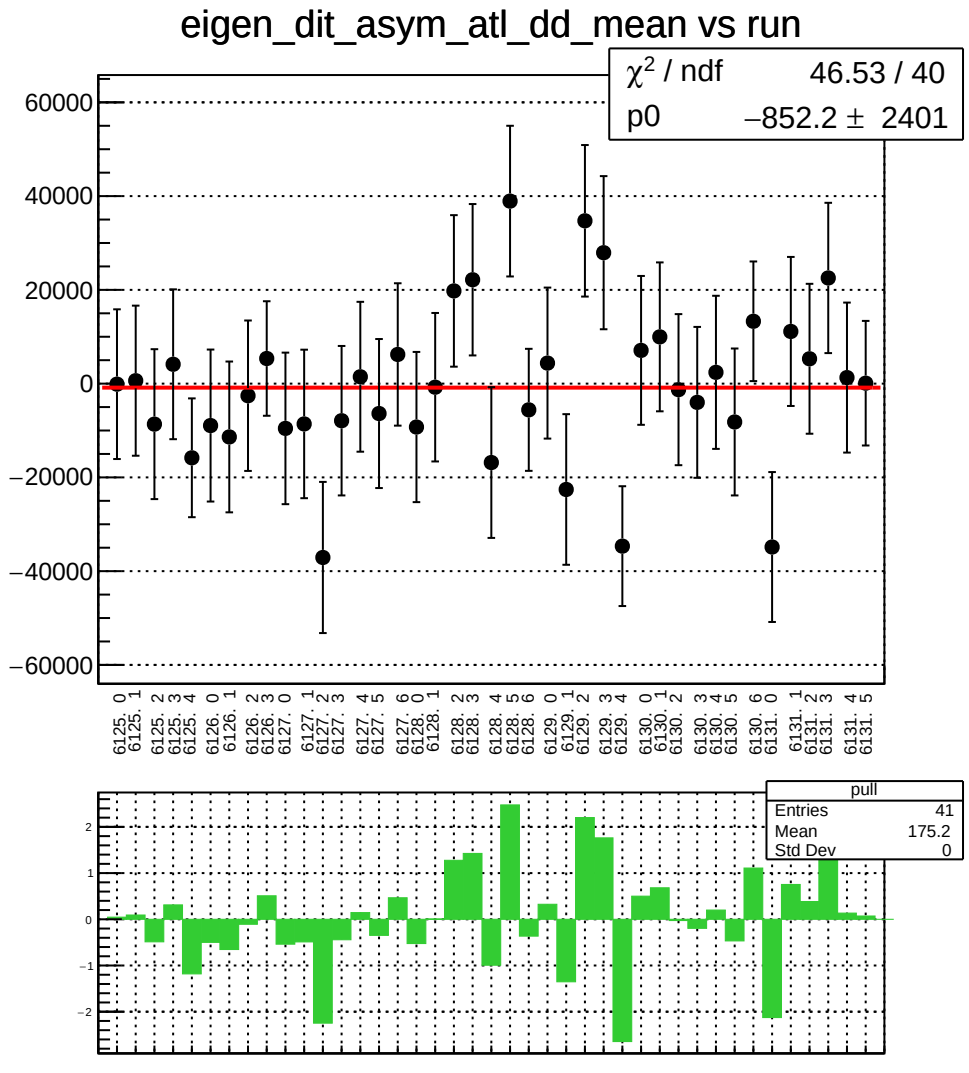

pull1D
Entries 41
Mean 0.01576
Std Dev 1.065
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

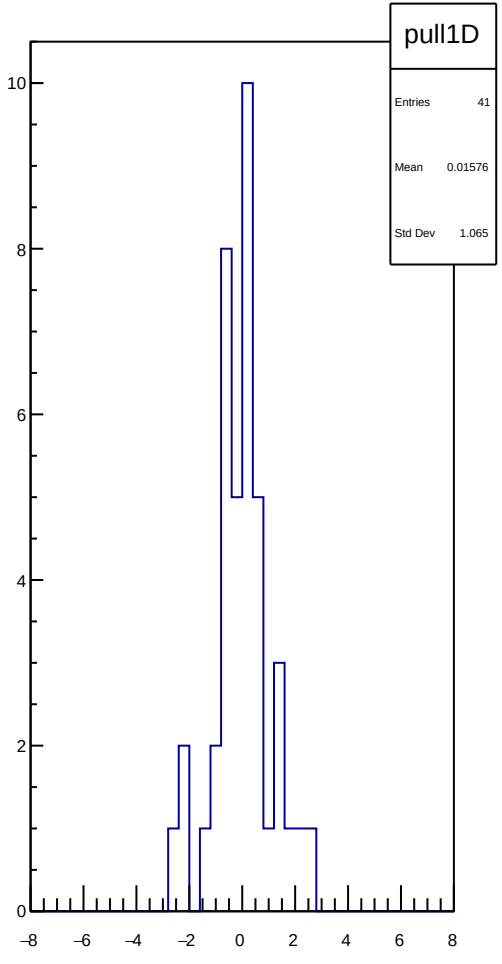

dit_asym_atl_dd_rms vs run
χ² / ndf 57.15 / 40
p0 1523 ± 1.698
1560
1540
1520
1500
1480
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

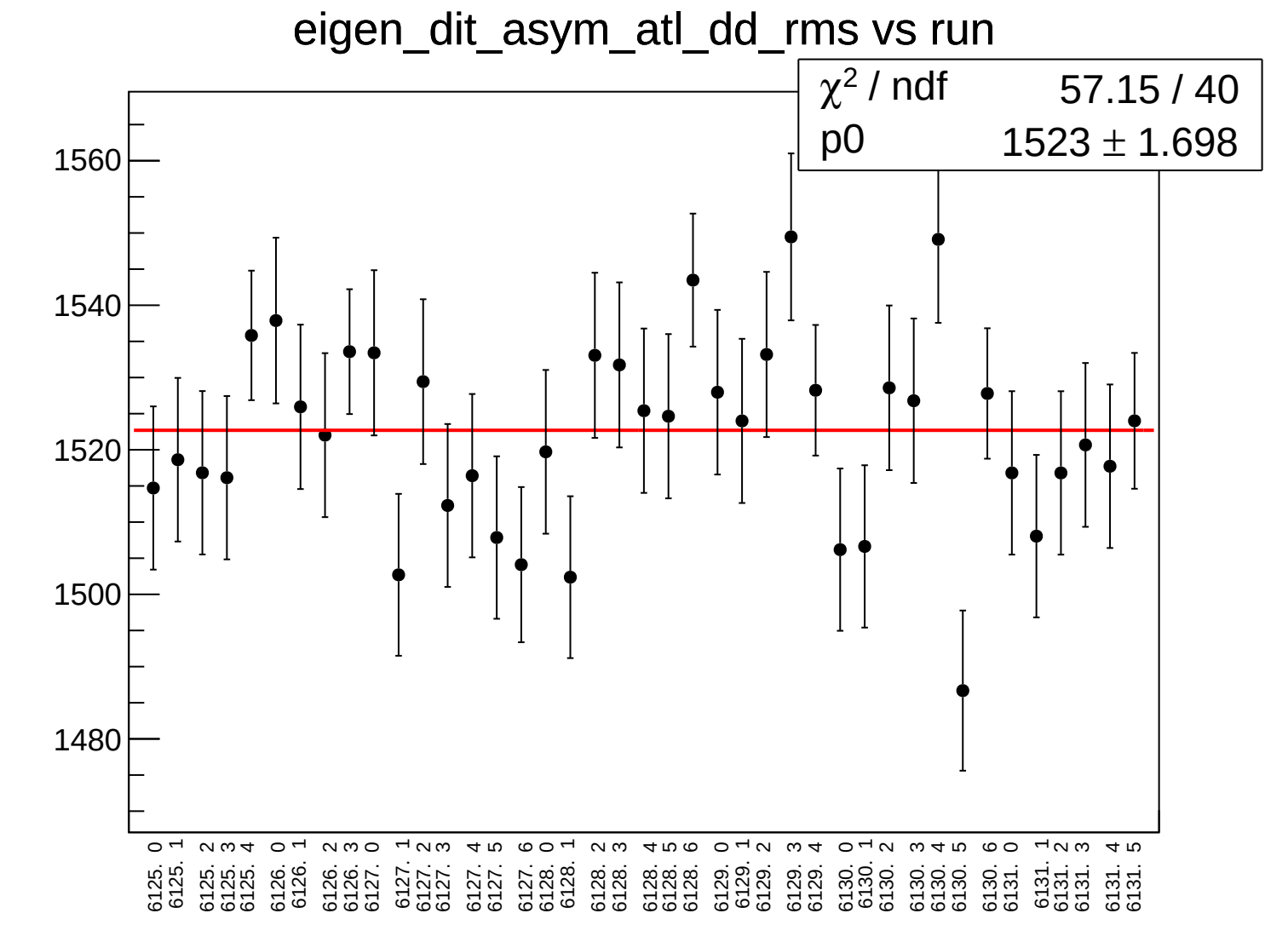

asym_atl_dd_dit_correction_mean vs run
χ² / ndf 33.09 / 40
p0 −135.7 ± 3241
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 26.58
Std Dev 35.04
1.5
1
0.5
0
−0.5
−1
−1.5
−2

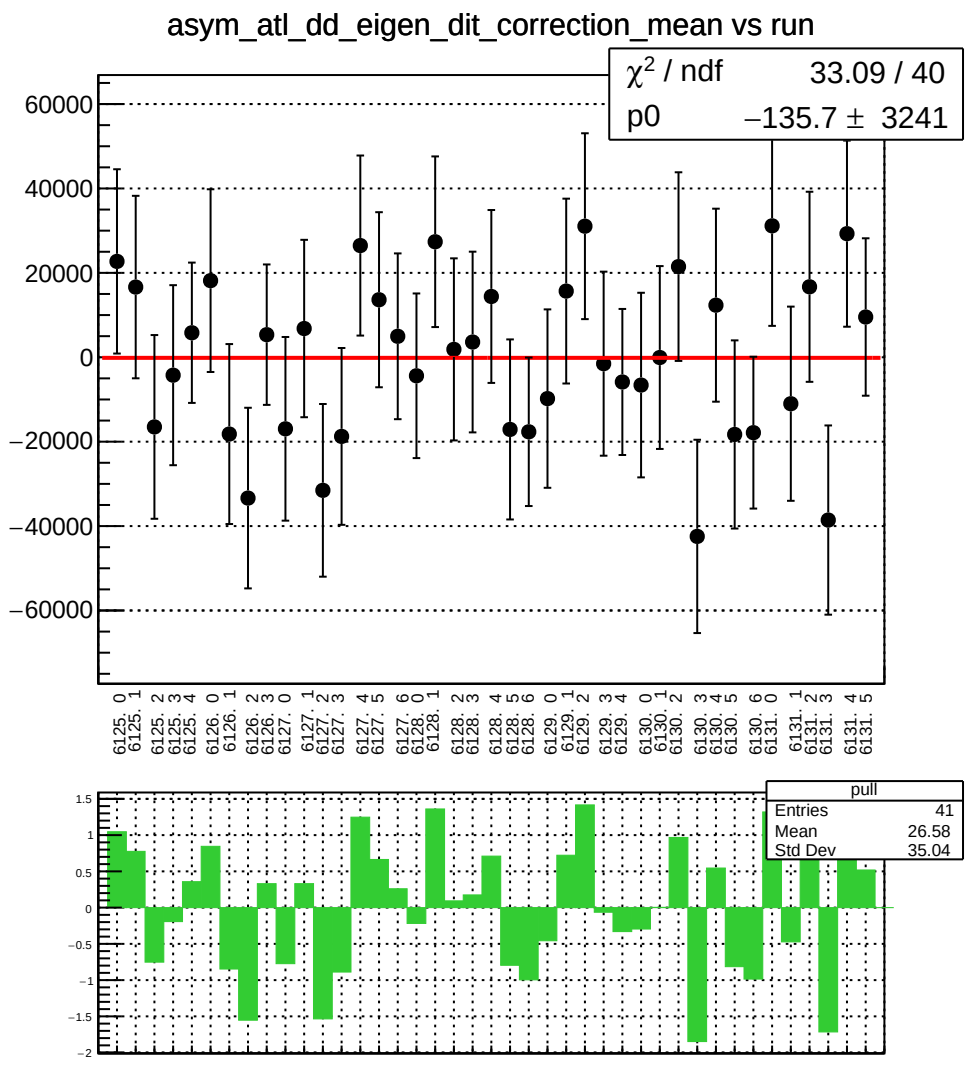

pull1D
Entries 41
Mean 0.005926
Std Dev 0.8984
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

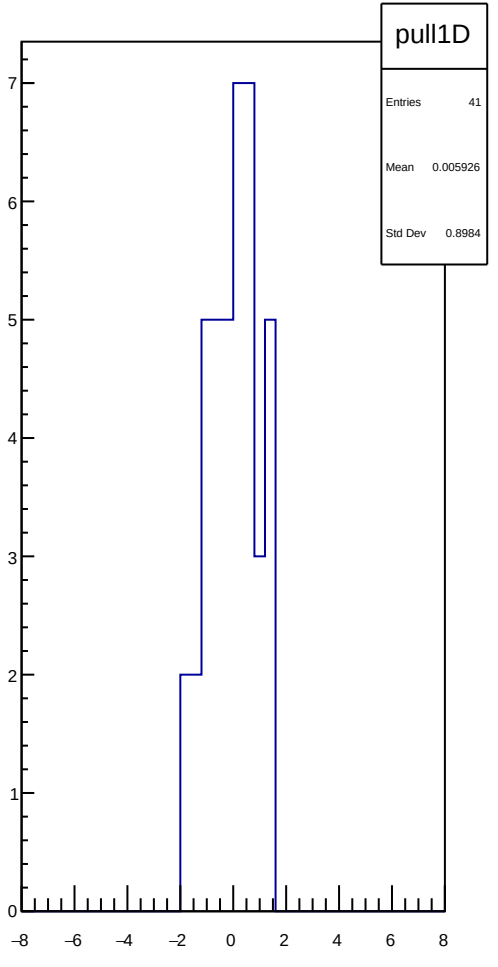

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 1125 / 40
p0 2054 ± 2.292
2300
2200
2100
2000
1900
1800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

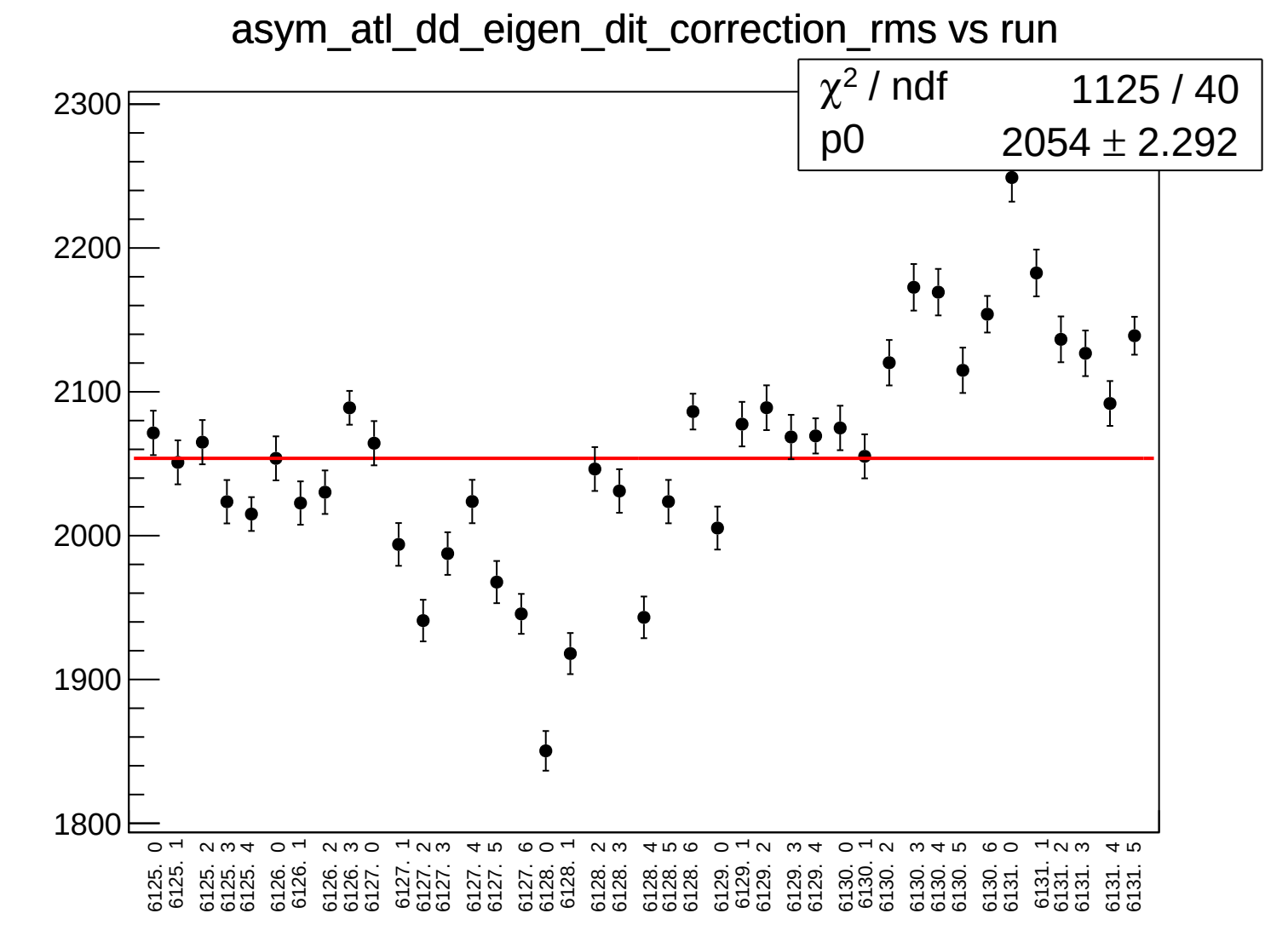

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 46.53 / 40
p0 −852.2 ± 2401
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 175.2
Std Dev 0
2
1
0
−1
−2

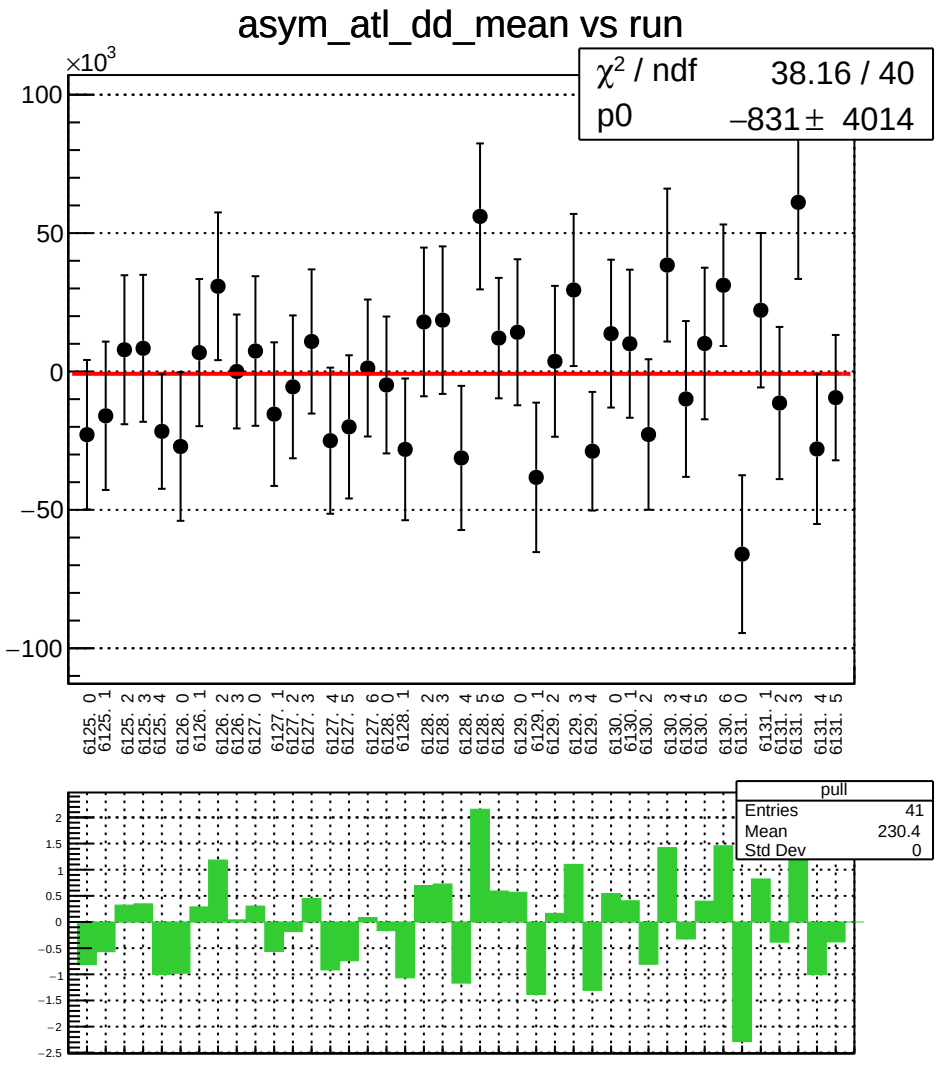

pull1D
Entries 41
Mean 0.01576
Std Dev 1.065
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

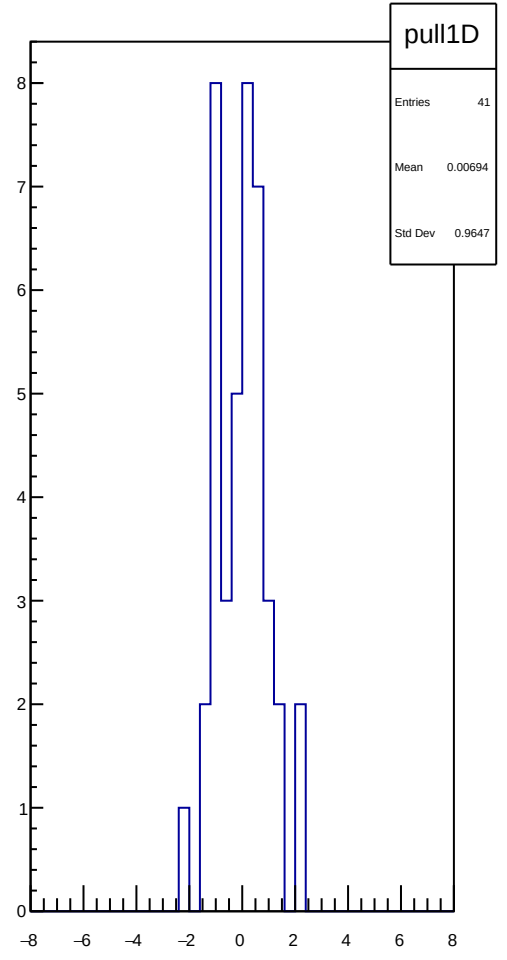

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 57.15 / 40
p0 1523 ± 1.698
1560
1540
1520
1500
1480
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

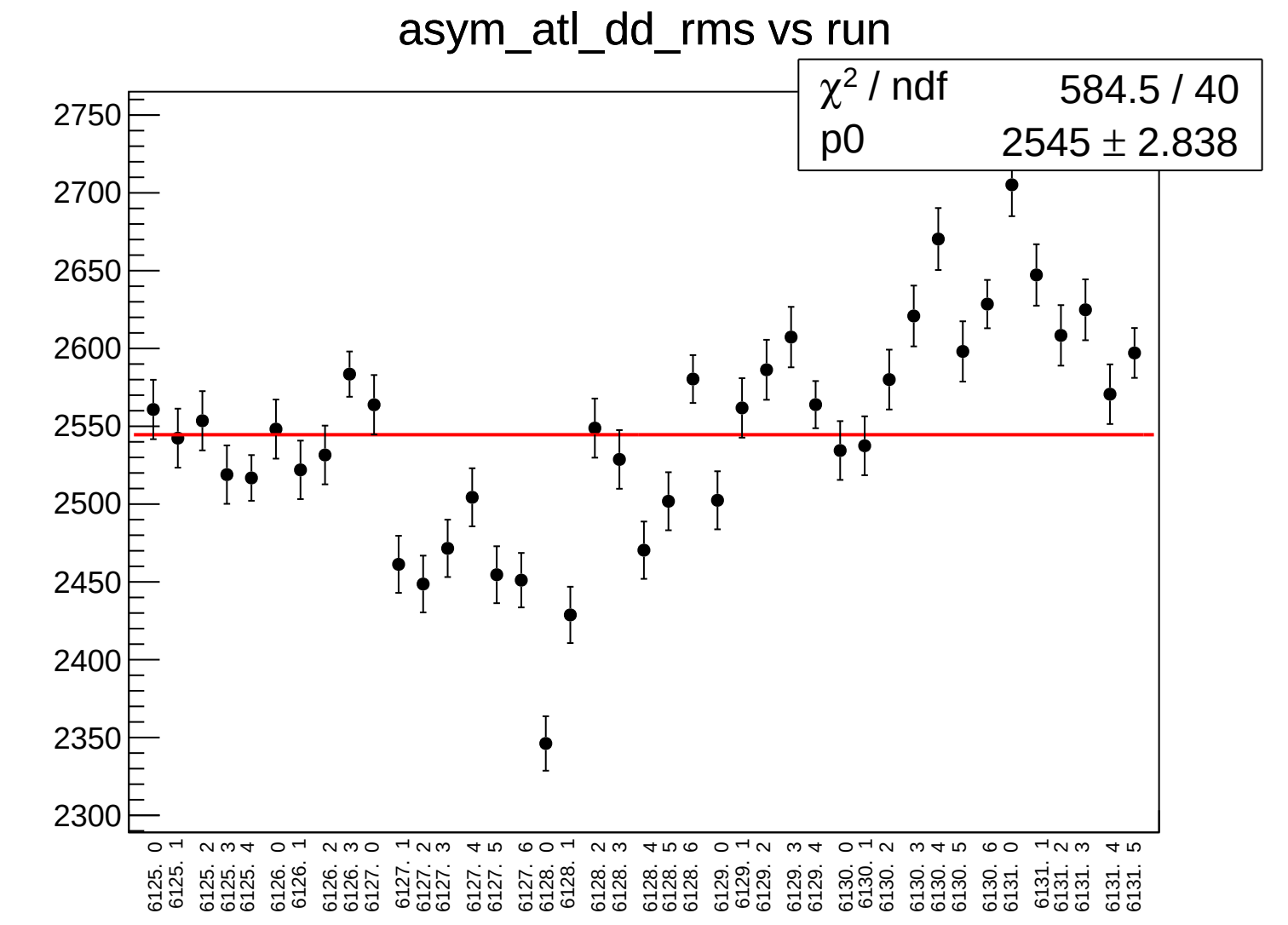

asym_atl_dd_eigen_dit_correction_mean vs run
χ² / ndf 33.09 / 40
p0 −135.7 ± 3241
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 26.58
Std Dev 35.04
1.5
1
0.5
0
−0.5
−1
−1.5
−2

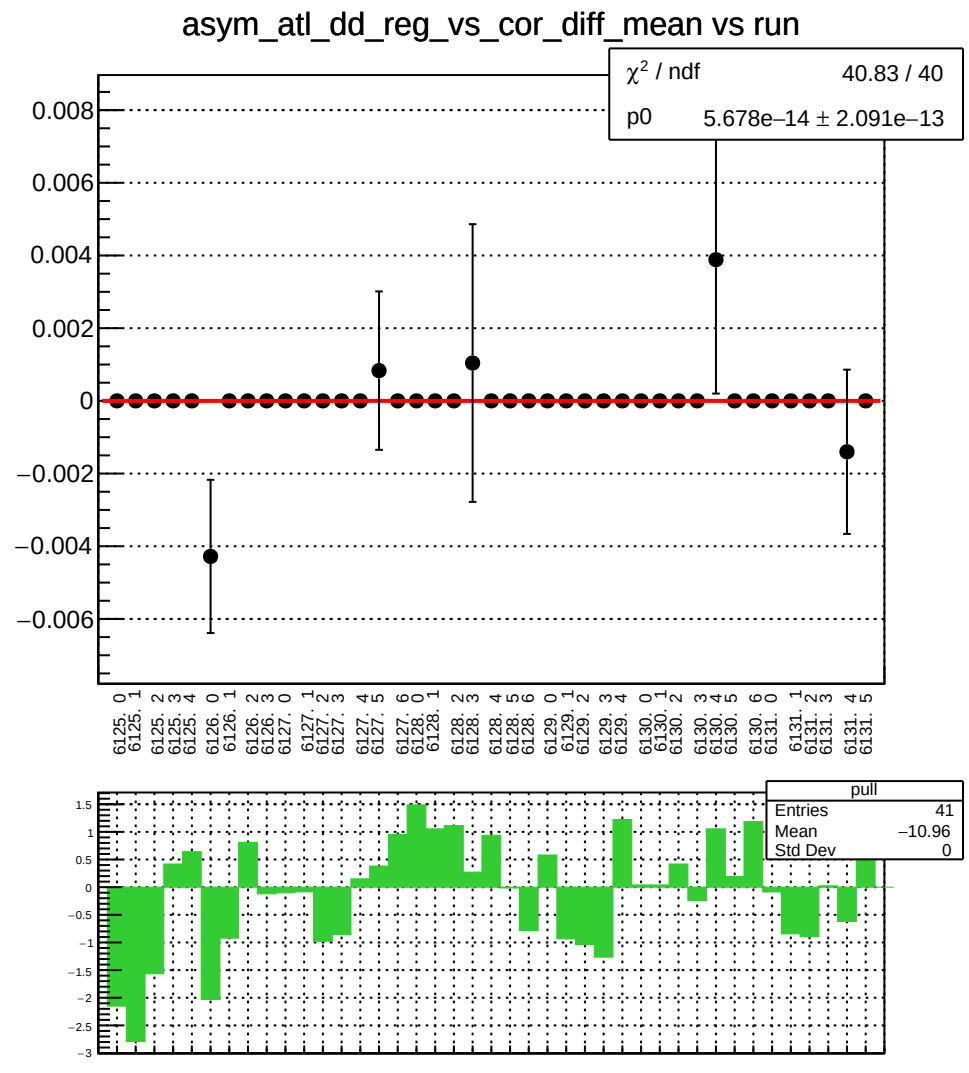

pull1D
Entries 41
Mean 0.005926
Std Dev 0.8984
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

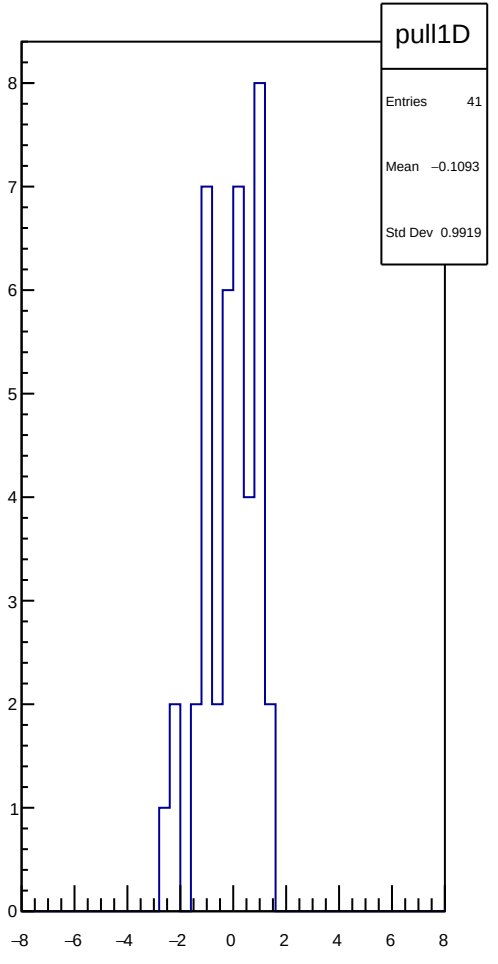

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 1125 / 40
p0 2054 ± 2.292
2300
2200
2100
2000
1900
1800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

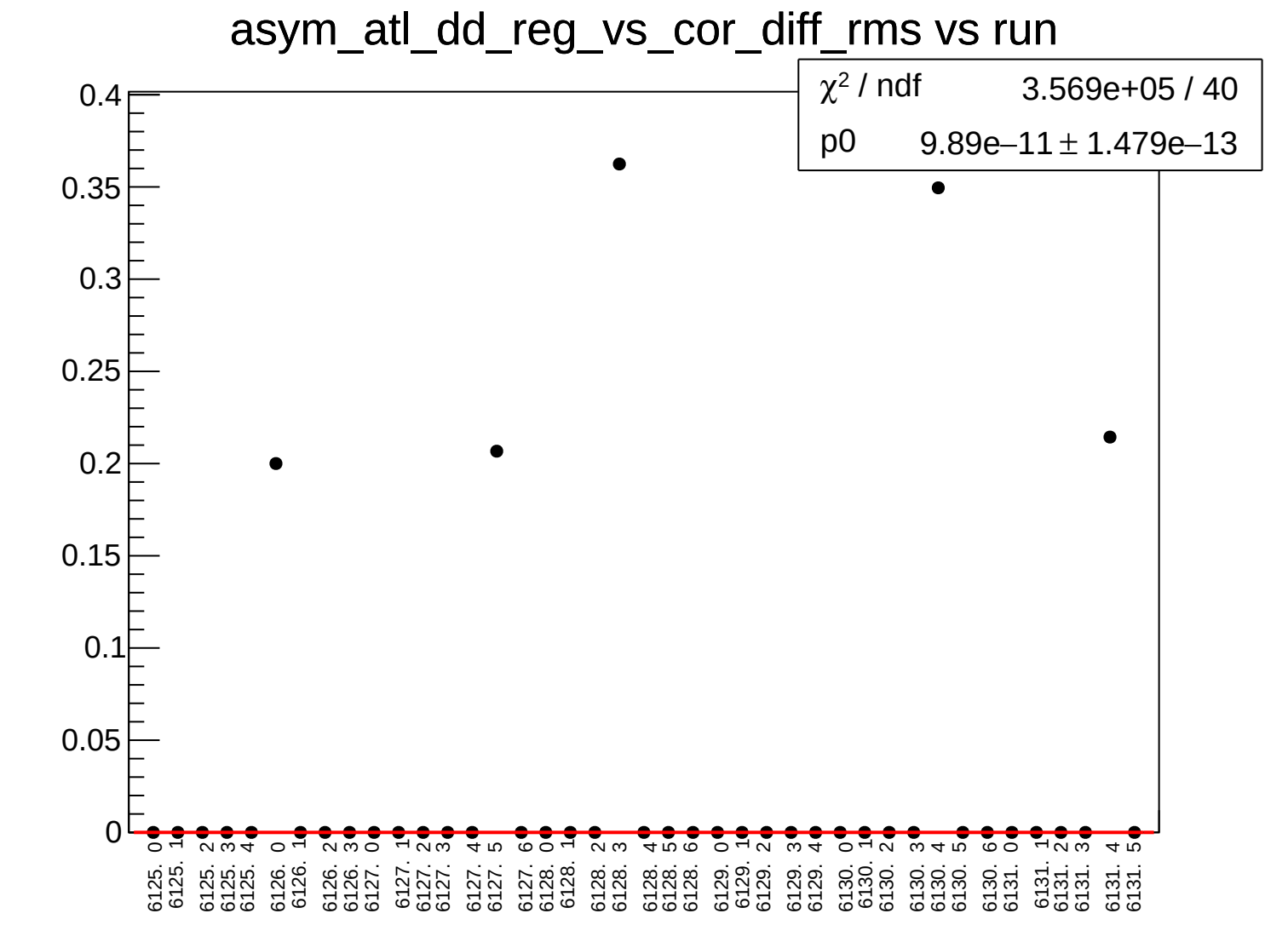

asym_atl_dd_mean vs run
×10^3
χ² / ndf 38.16 / 40
p0 −831 ± 4014
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 230.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

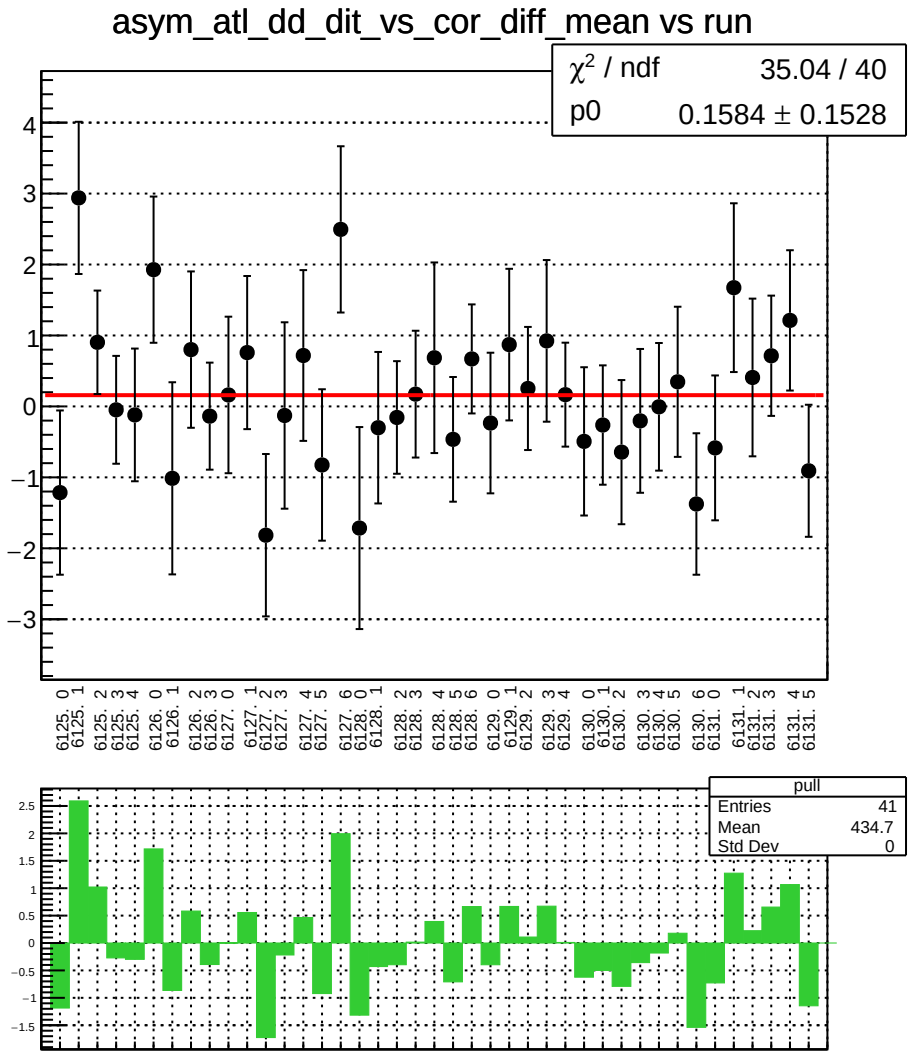

pull1D
Entries 41
Mean 0.00694
Std Dev 0.9647
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

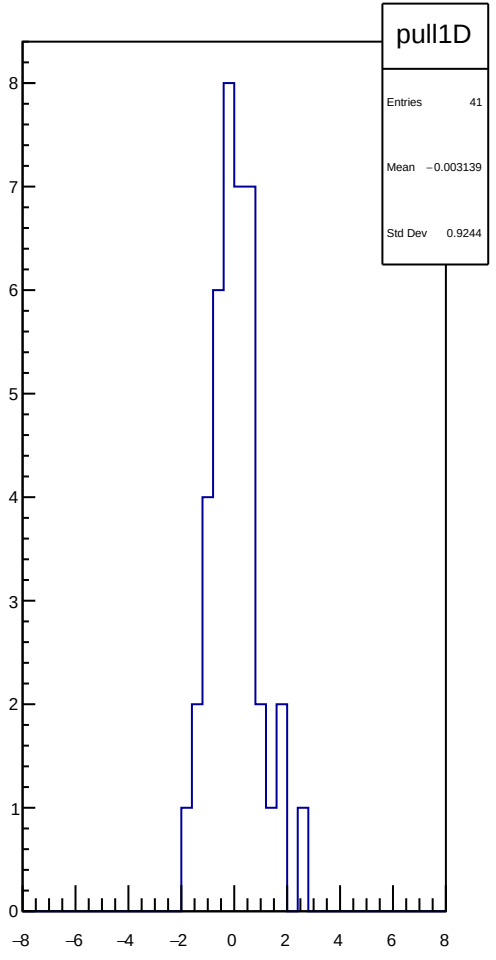

asym_atl_dd_rms vs run
χ² / ndf 584.5 / 40
p0 2545 ± 2.838
2750
2700
2650
2600
2550
2500
2450
2400
2350
2300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

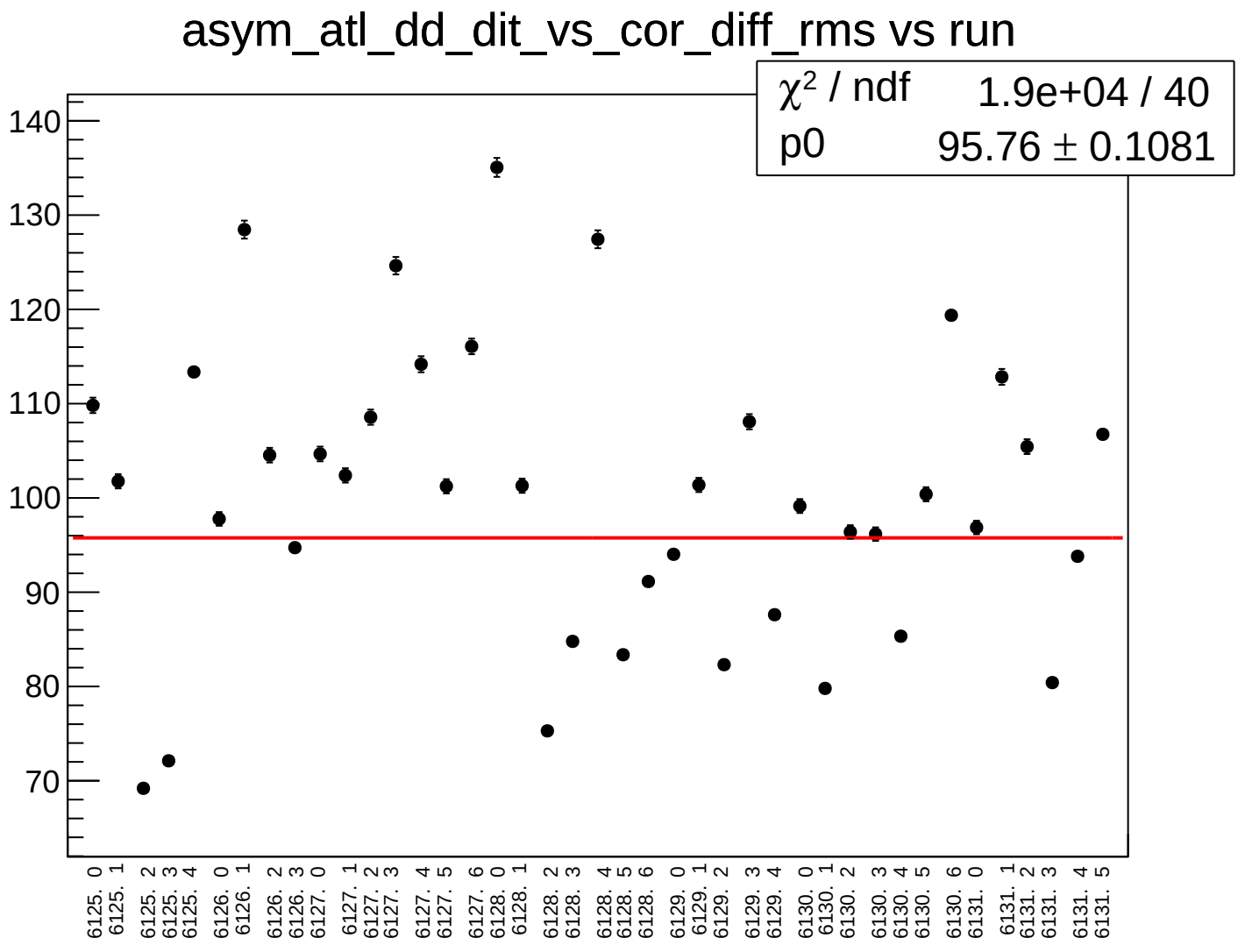

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 40.83 / 40
p0 5.678e−14 ± 2.091e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −10.96
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

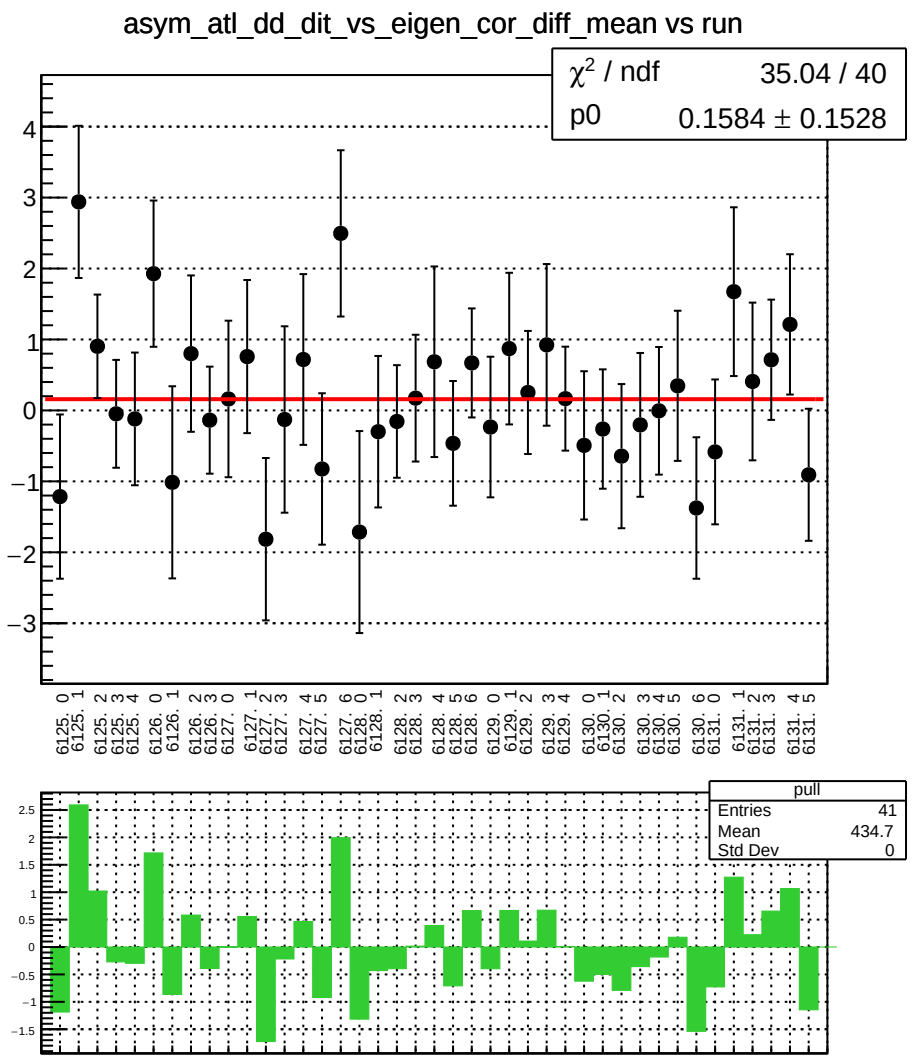

pull1D
Entries 41
Mean −0.1093
Std Dev 0.9919
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

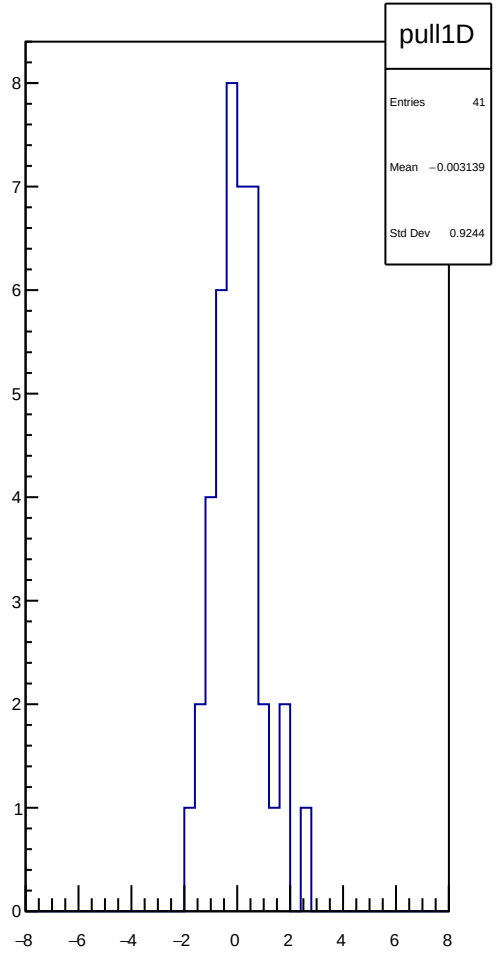

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.569e+05 / 40
p0 9.89e−11 ± 1.479e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

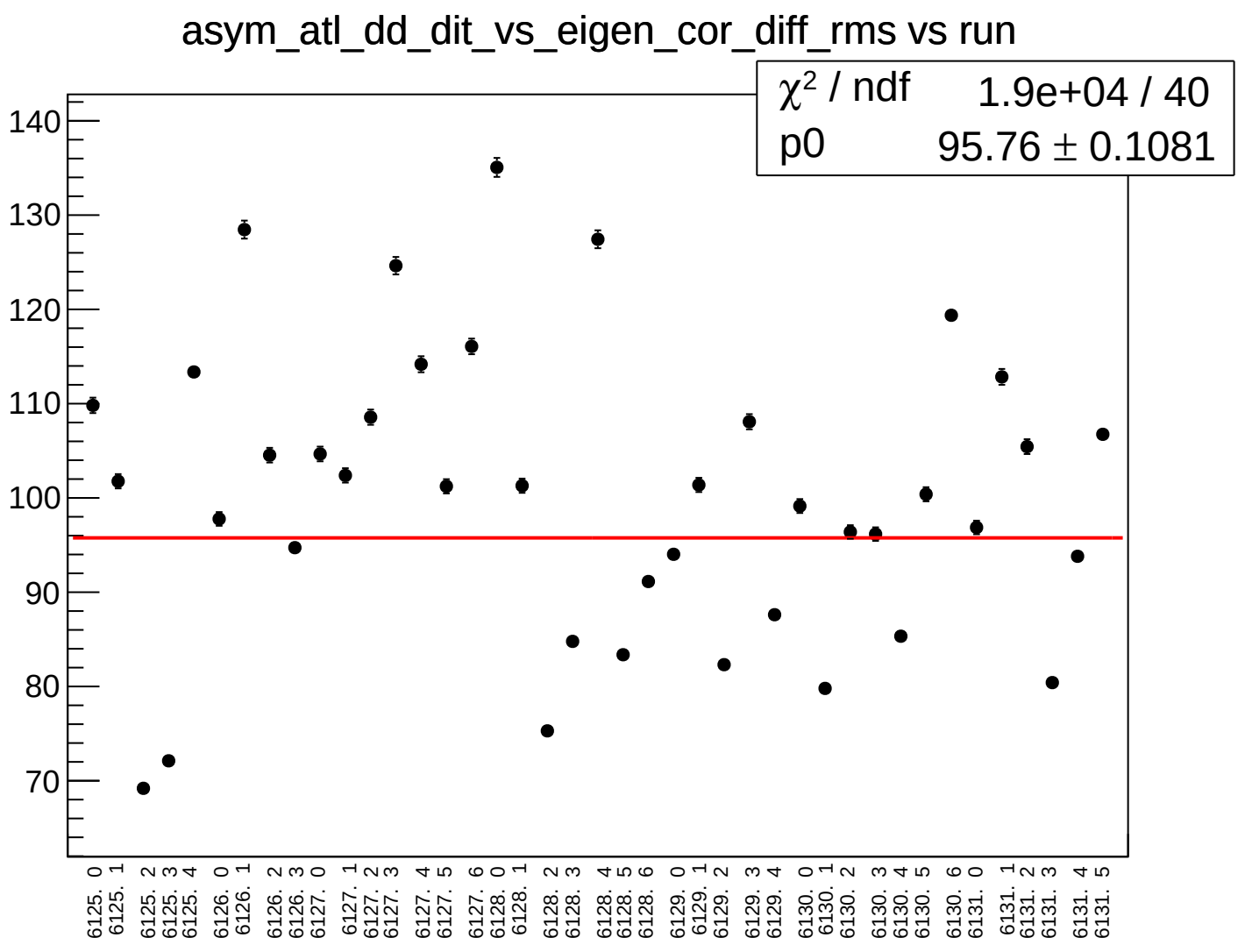

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 35.04 / 40
p0 0.1584 ± 0.1528
pull
Entries 41
Mean 434.7
Std Dev 0

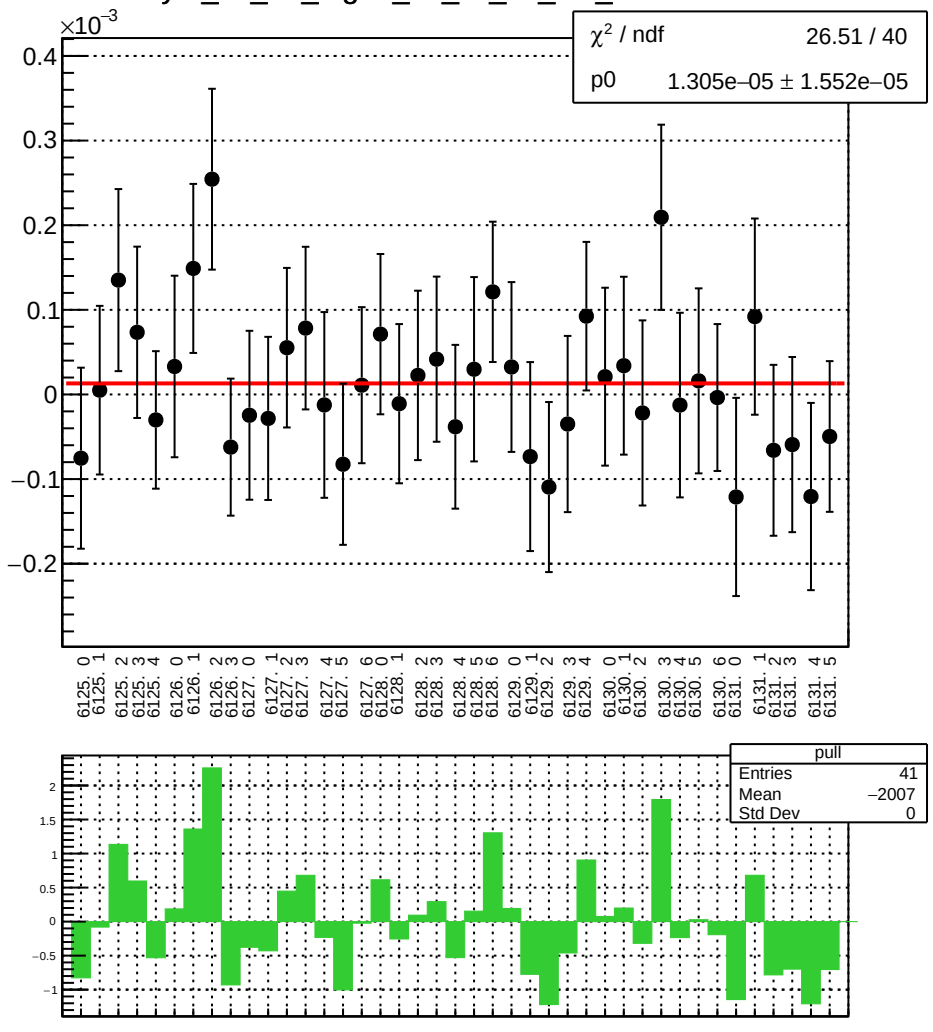

pull1D
Entries 41
Mean −0.003139
Std Dev 0.9244

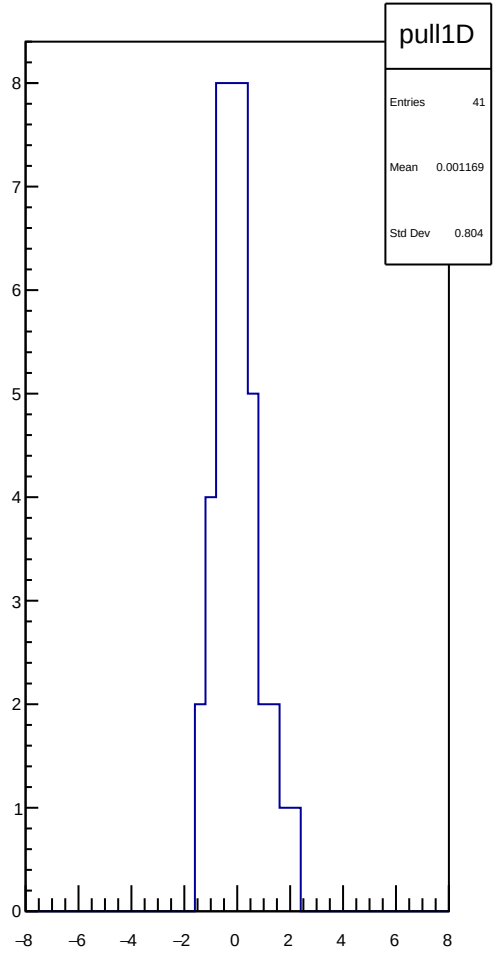

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.9e+04 / 40
p0 95.76 ± 0.1081
140
130
120
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

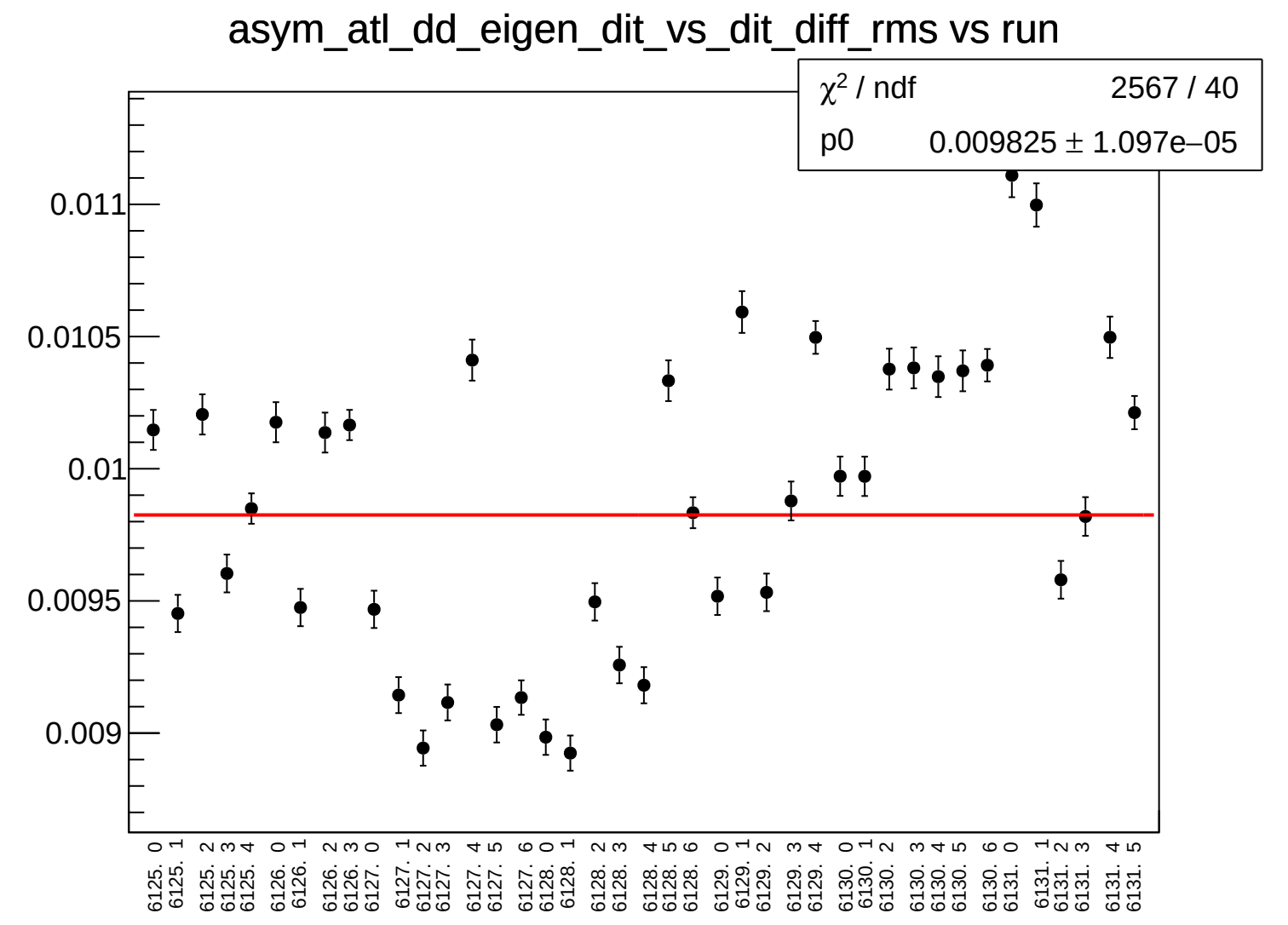

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.04 / 40
p0 0.1584 ± 0.1528
pull
Entries 41
Mean 434.7
Std Dev 0

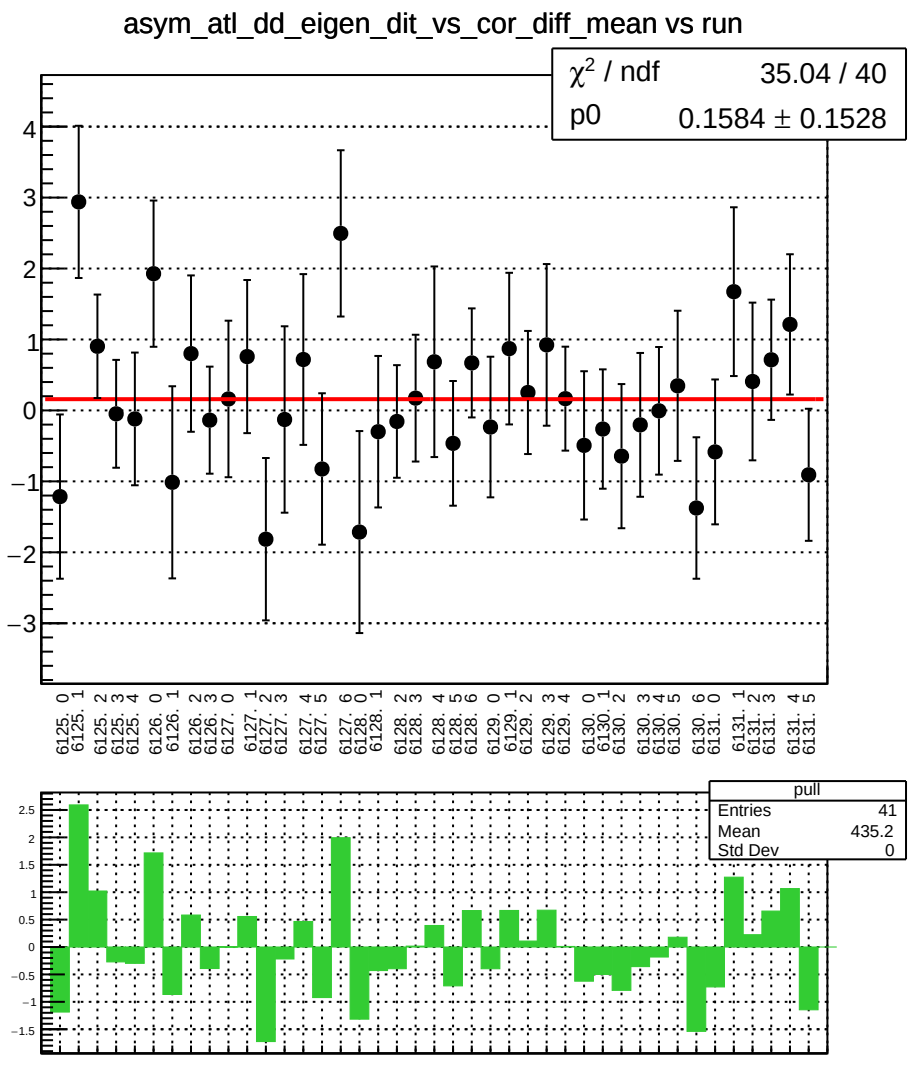

pull1D
Entries 41
Mean −0.003139
Std Dev 0.9244

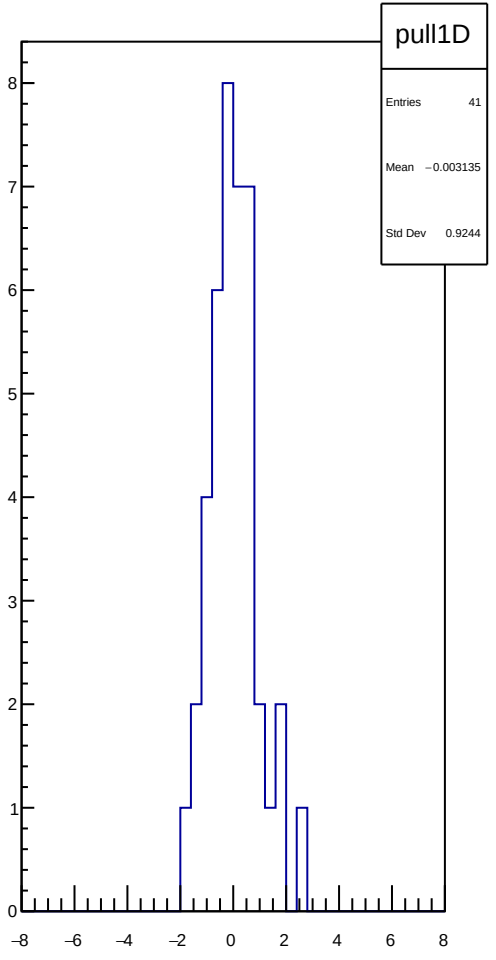

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.9e+04 / 40
p0 95.76 ± 0.1081
140
130
120
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

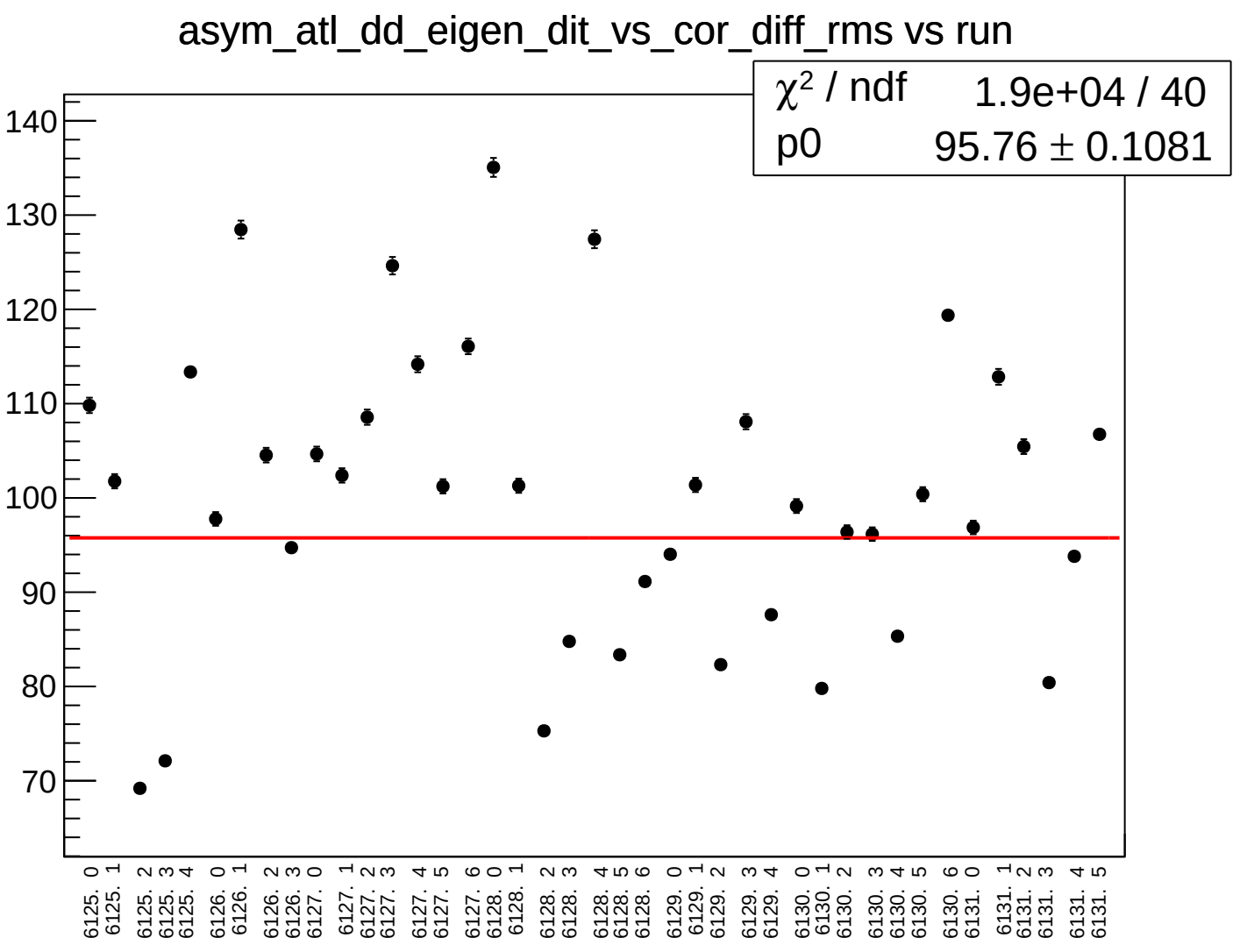

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 26.51 / 40
p0 1.305e−05 ± 1.552e−05
pull
Entries 41
Mean −2007
Std Dev 0

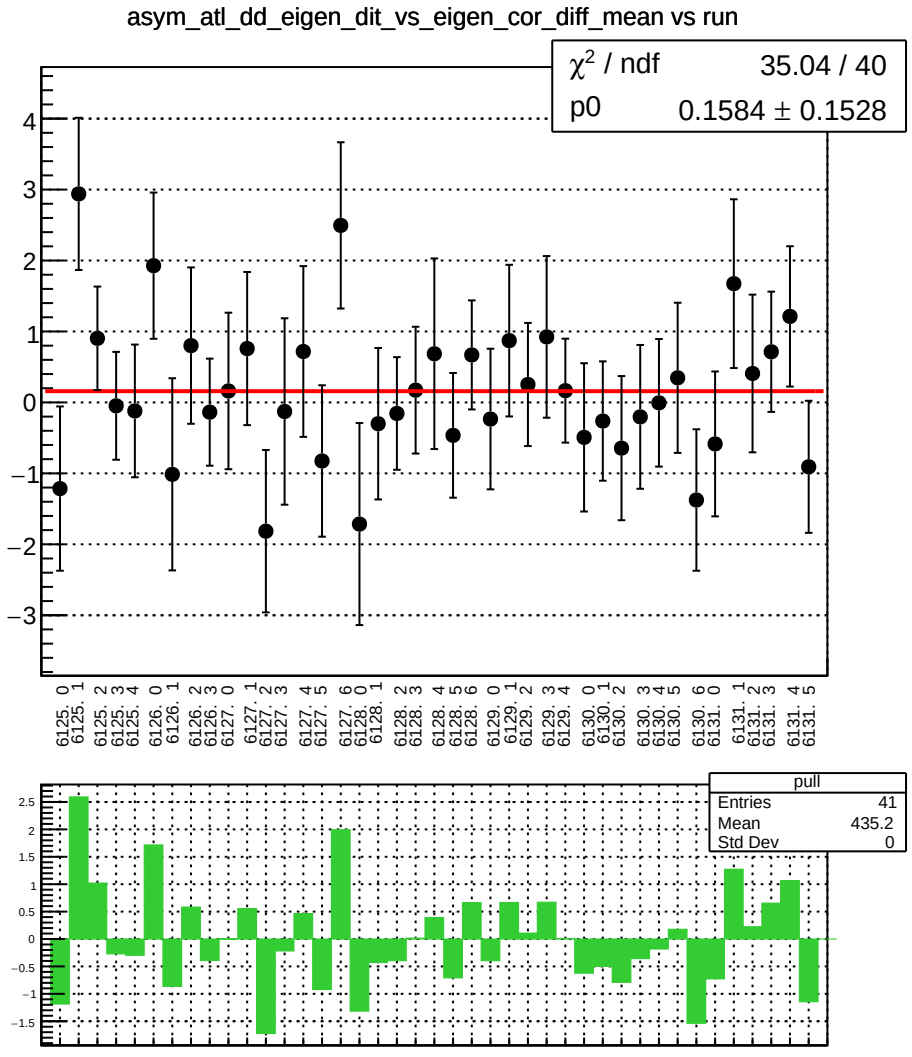

pull1D
Entries 41
Mean 0.001169
Std Dev 0.804

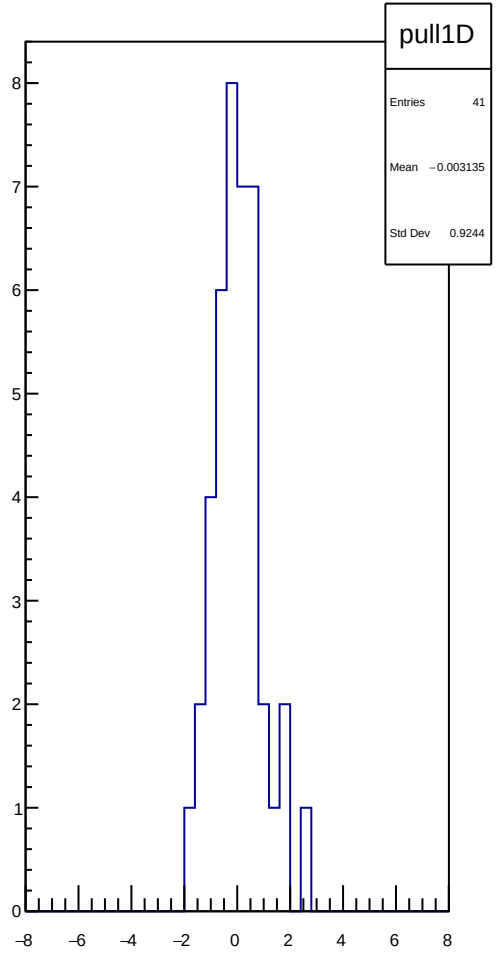

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2567 / 40
p0 0.009825 ± 1.097e−05
0.011
0.0105
0.01
0.0095
0.009
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

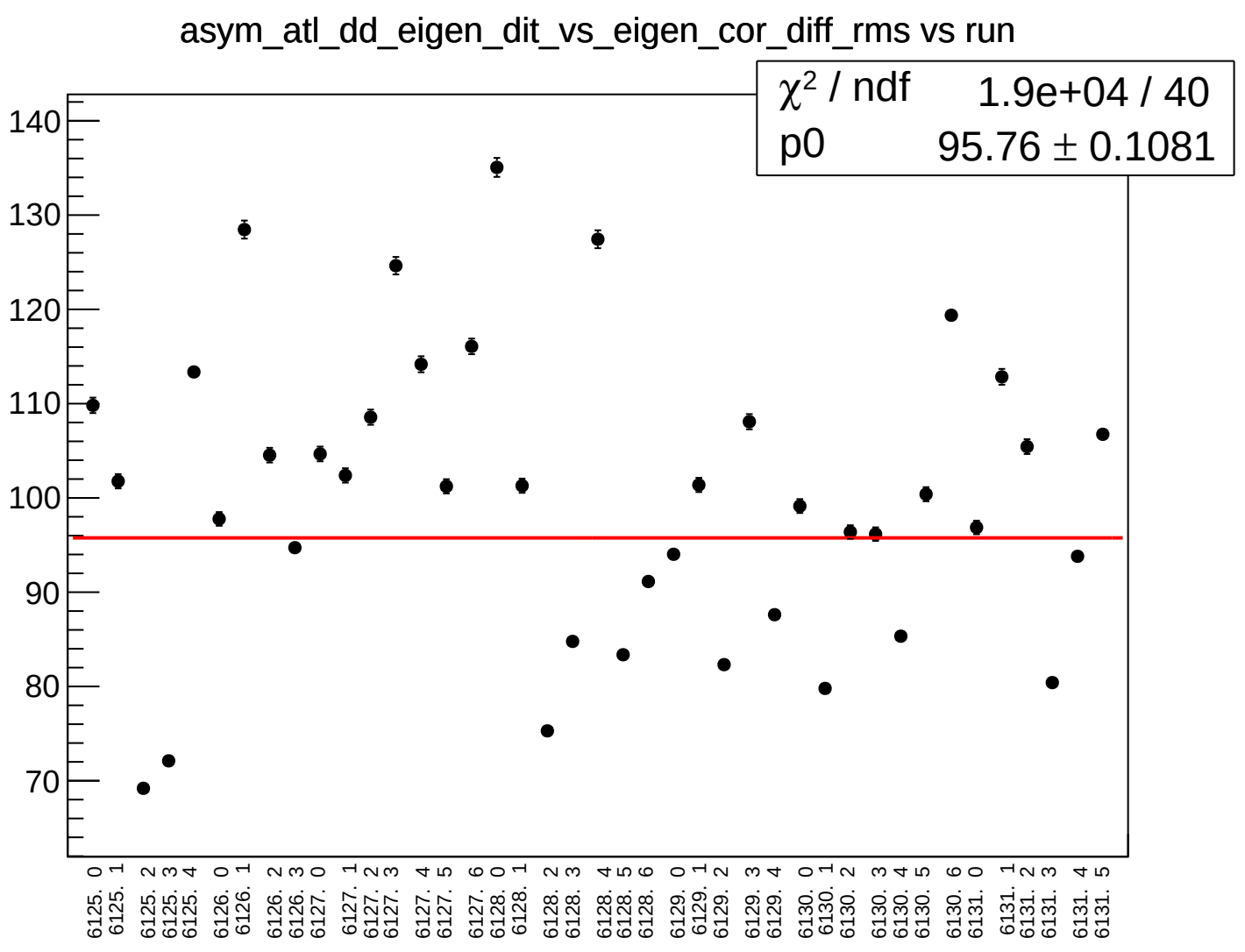

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.04 / 40
p0 0.1584 ± 0.1528
pull
Entries 41
Mean 435.2
Std Dev 0

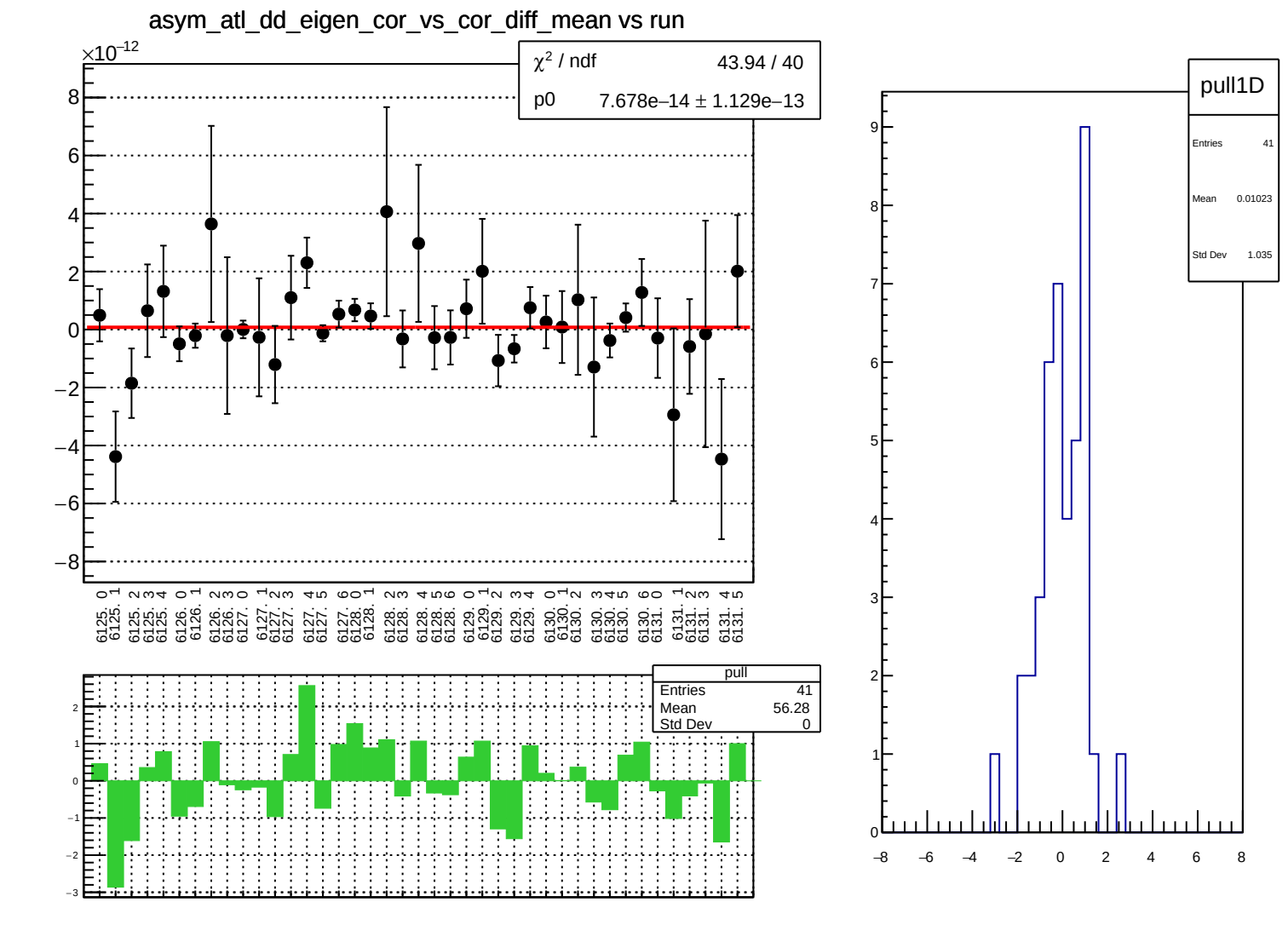

pull1D
Entries 41
Mean −0.003135
Std Dev 0.9244

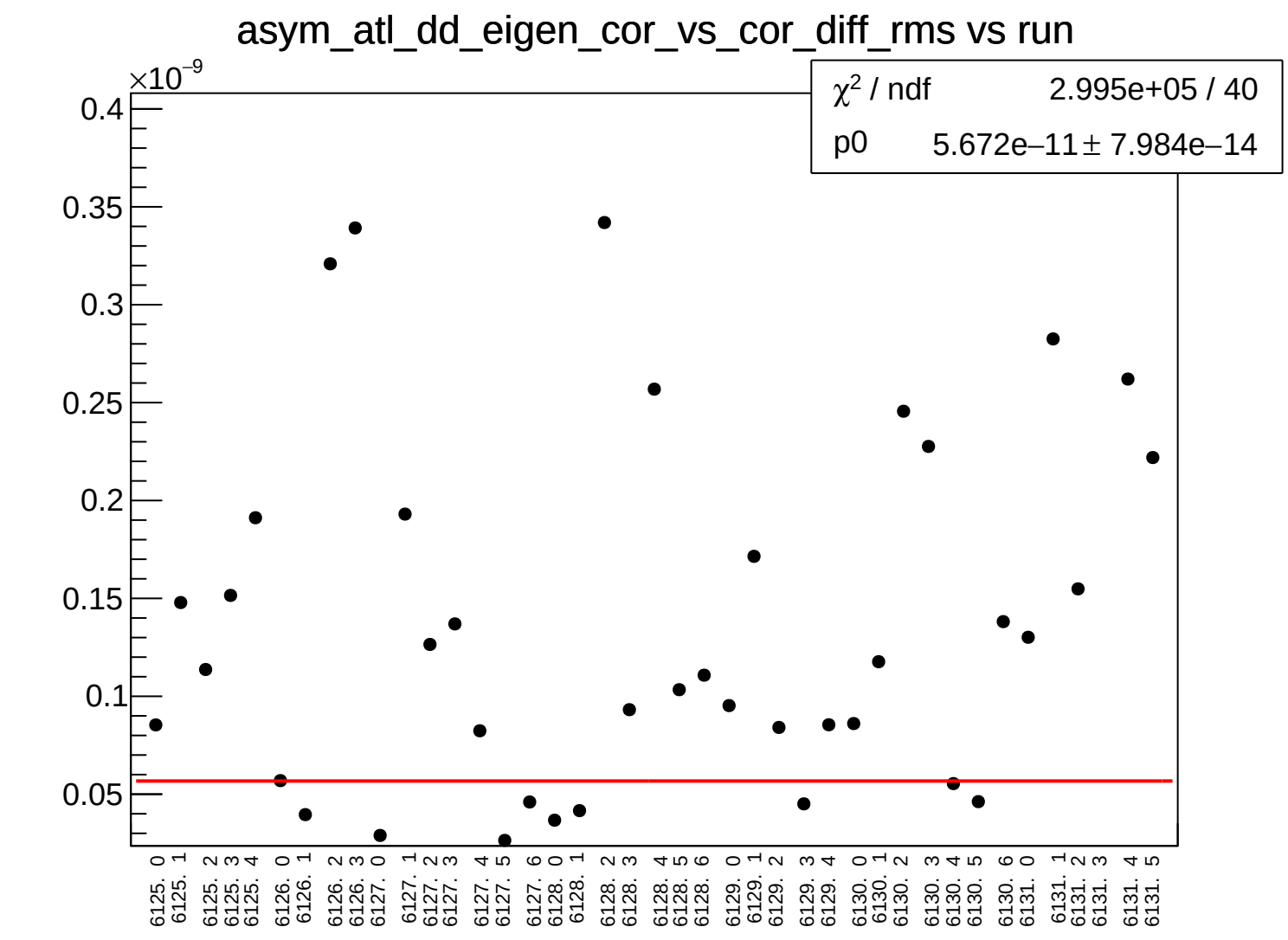

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.9e+04 / 40
p0 95.76 ± 0.1081
140
130
120
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

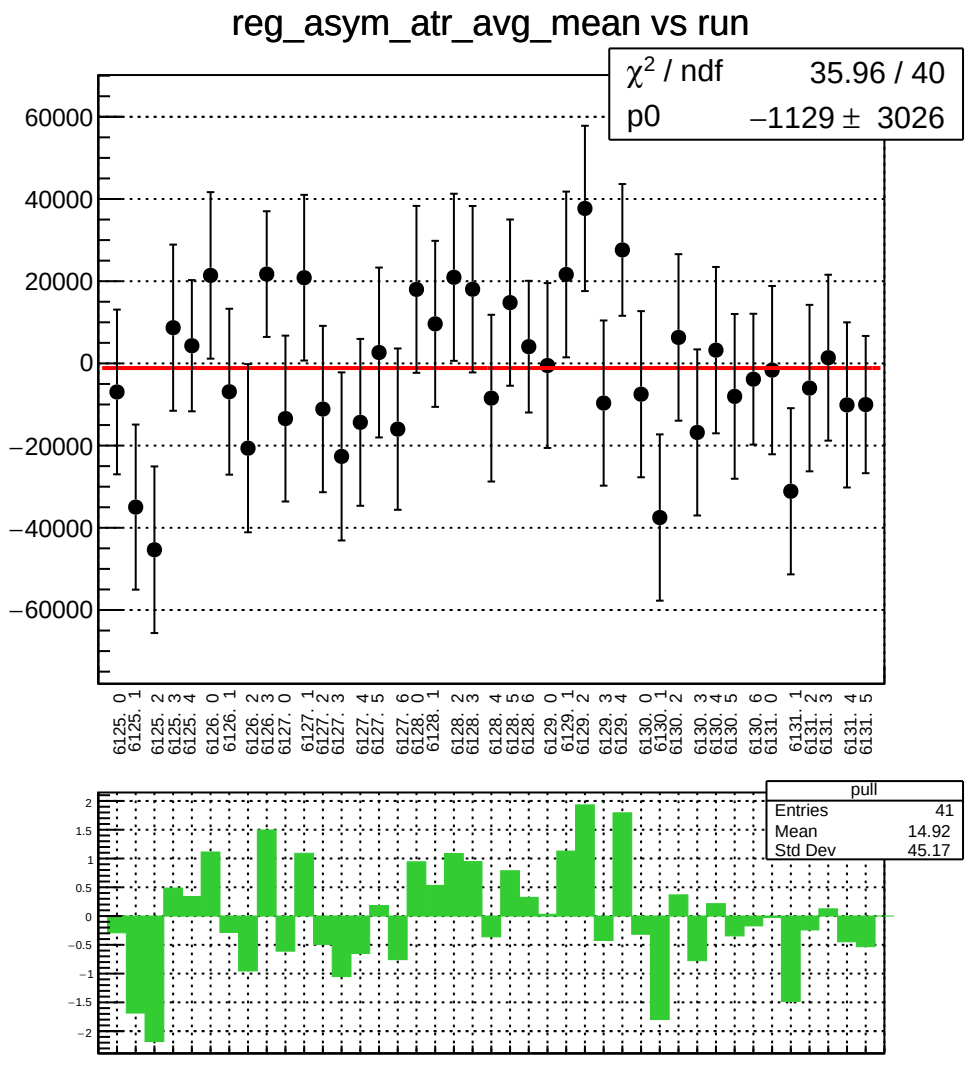

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.04 / 40
p0 0.1584 ± 0.1528
pull
Entries 41
Mean 435.2
Std Dev 0

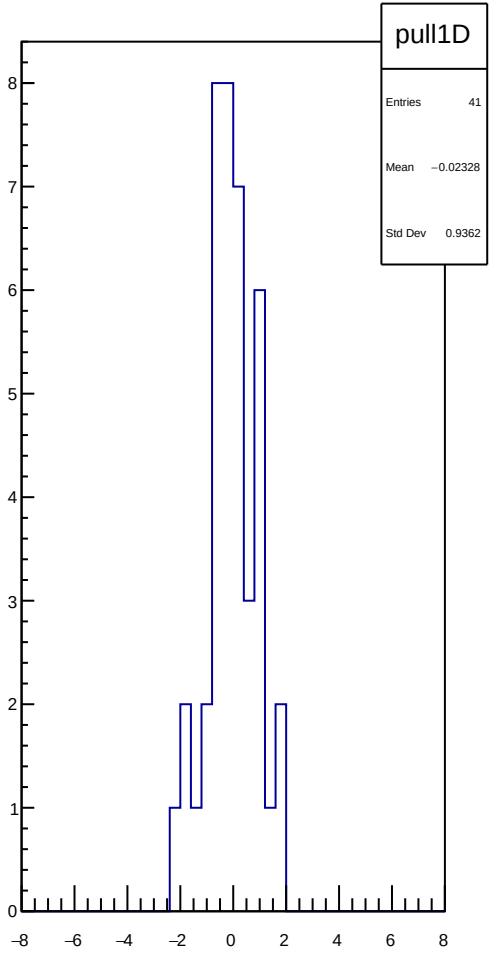

pull1D
Entries 41
Mean −0.003135
Std Dev 0.9244

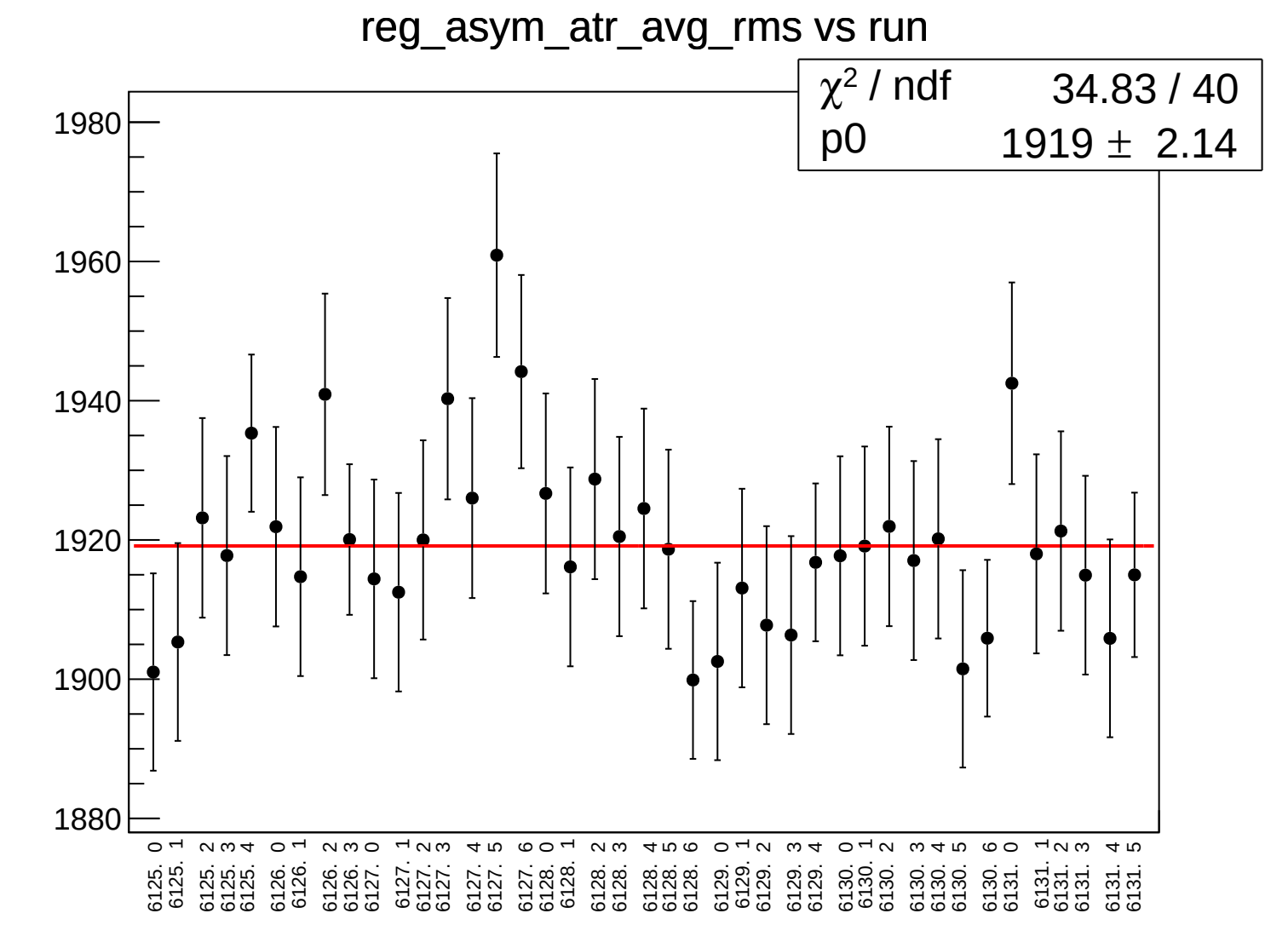

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.9e+04 / 40
p0 95.76 ± 0.1081
140
130
120
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

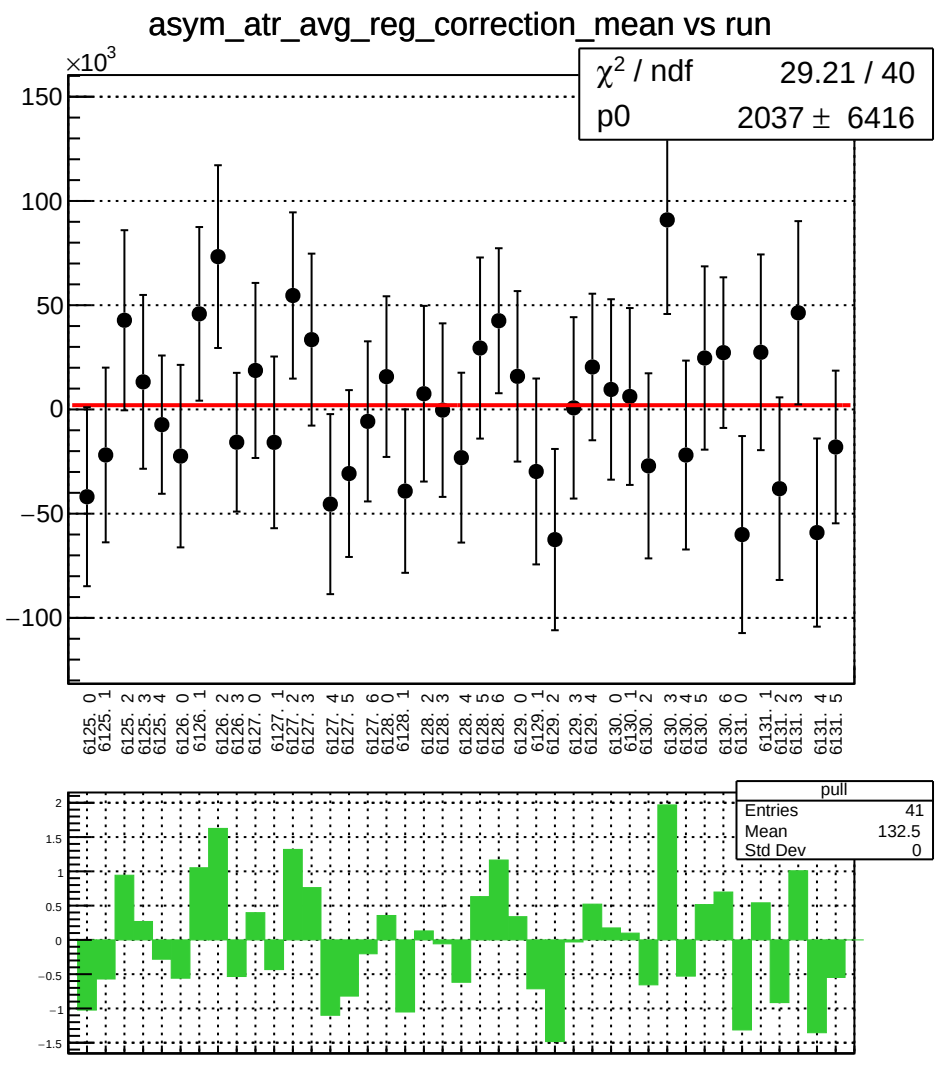

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 43.94 / 40
p0 7.678e−14 ± 1.129e−13
pull
Entries 41
Mean 56.28
Std Dev 0
pull1D
Entries 41
Mean 0.01023
Std Dev 1.035

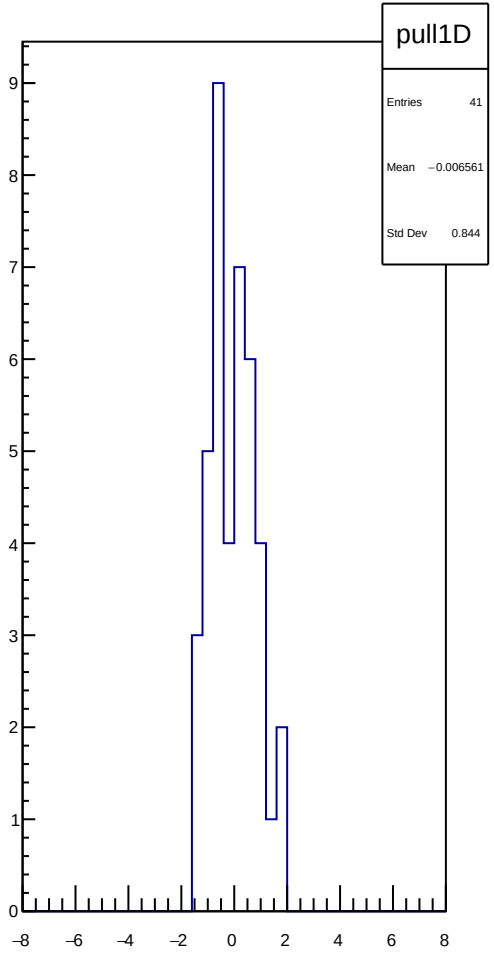

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.995e+05 / 40
p0 5.672e−11 ± 7.984e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

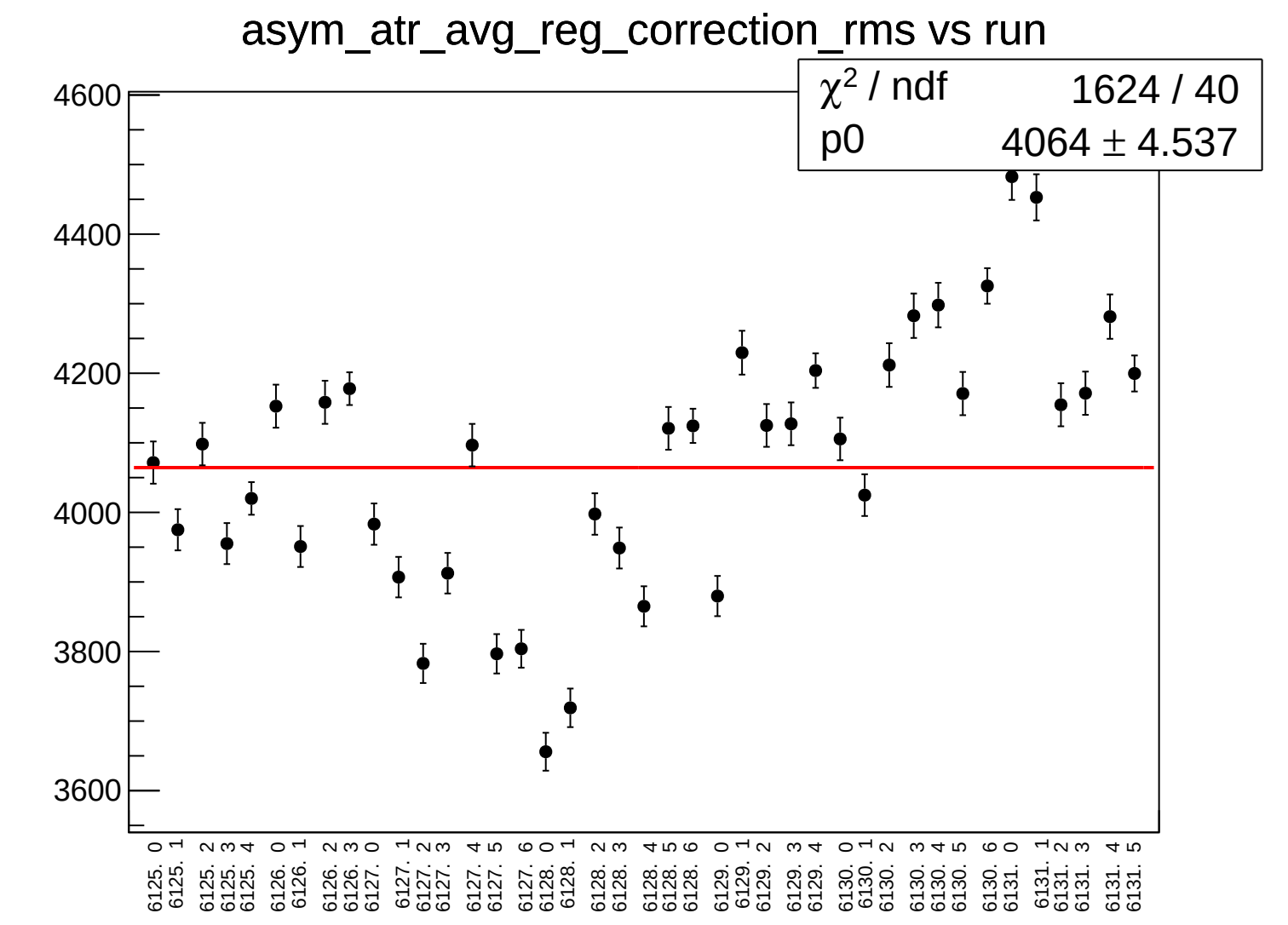

reg_asym_atr_avg_mean vs run
χ² / ndf 35.96 / 40
p0 −1129 ± 3026
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 14.92
Std Dev 45.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

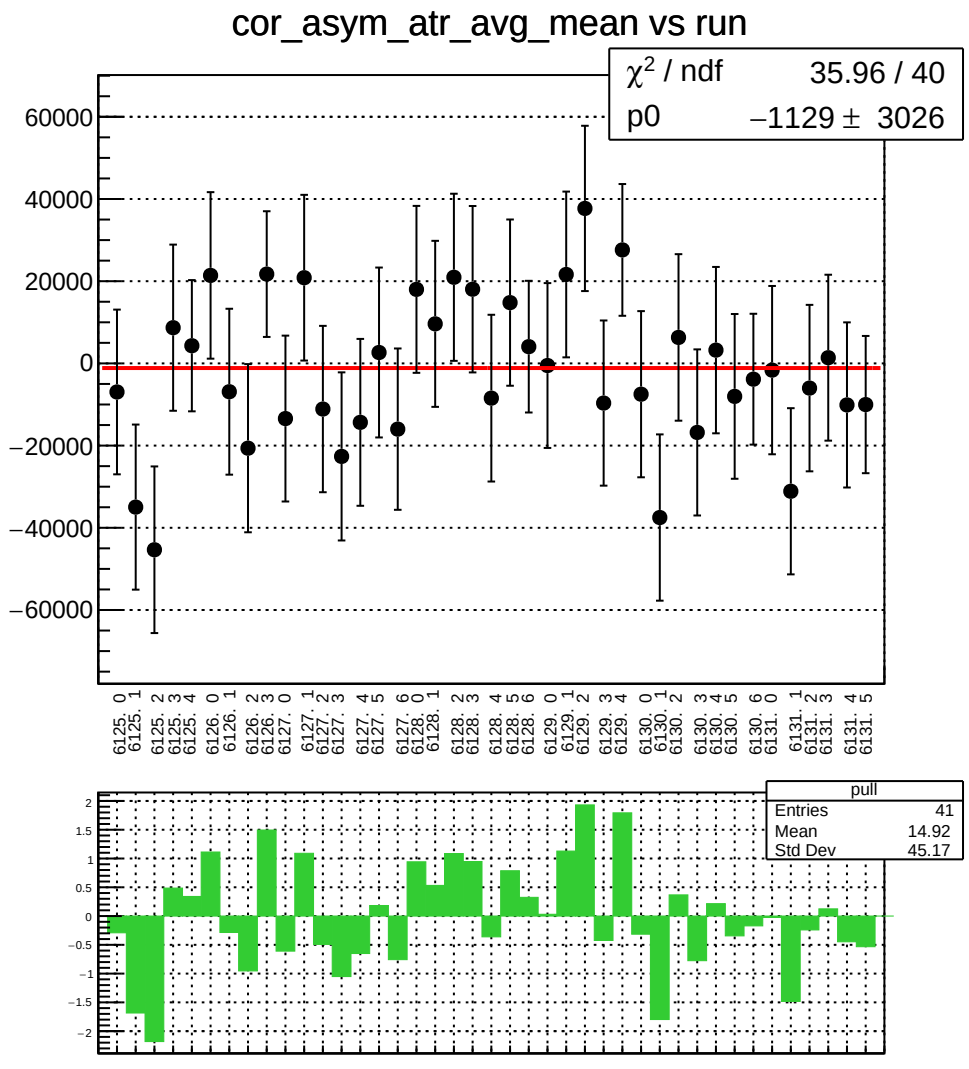

pull1D
Entries 41
Mean −0.02328
Std Dev 0.9362
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

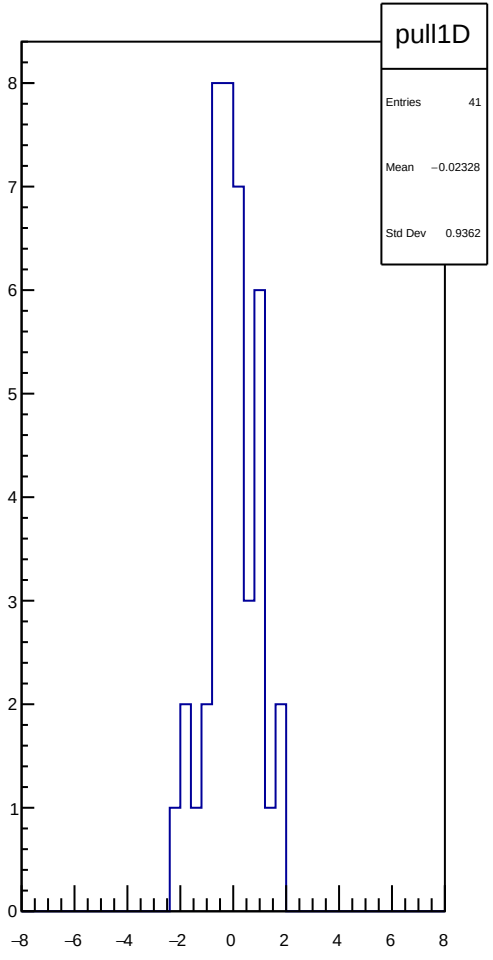

reg_asym_atr_avg_rms vs run
χ² / ndf 34.83 / 40
p0 1919 ± 2.14
1980
1960
1940
1920
1900
1880
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 29.21 / 40
p0 2037 ± 6416
150
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 132.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.006561
Std Dev 0.844
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_avg_reg_correction_rms vs run
χ² / ndf 1624 / 40
p0 4064 ± 4.537
4600
4400
4200
4000
3800
3600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


cor_asym_atr_avg_mean vs run
χ² / ndf 35.96 / 40
p0 −1129 ± 3026
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 14.92
Std Dev 45.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.02328
Std Dev 0.9362
8
7
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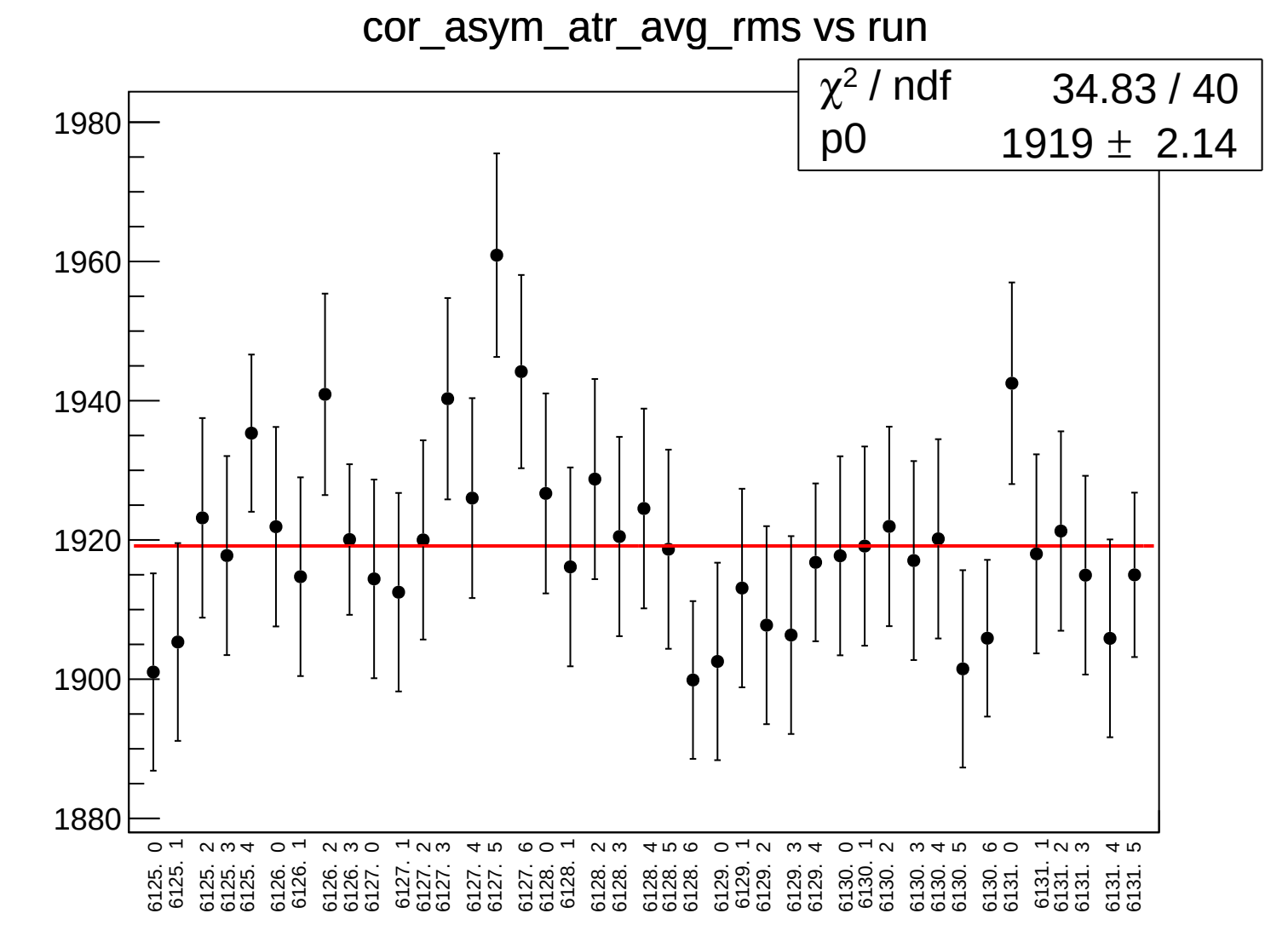
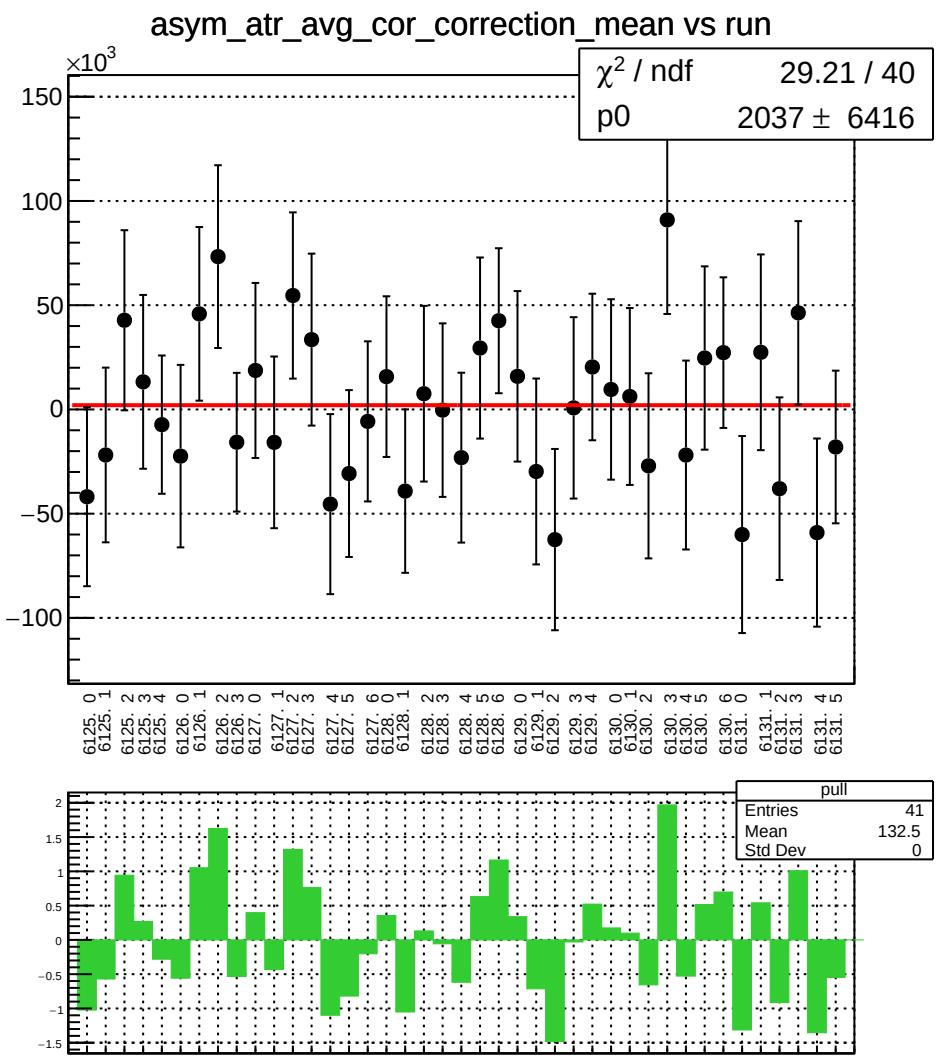
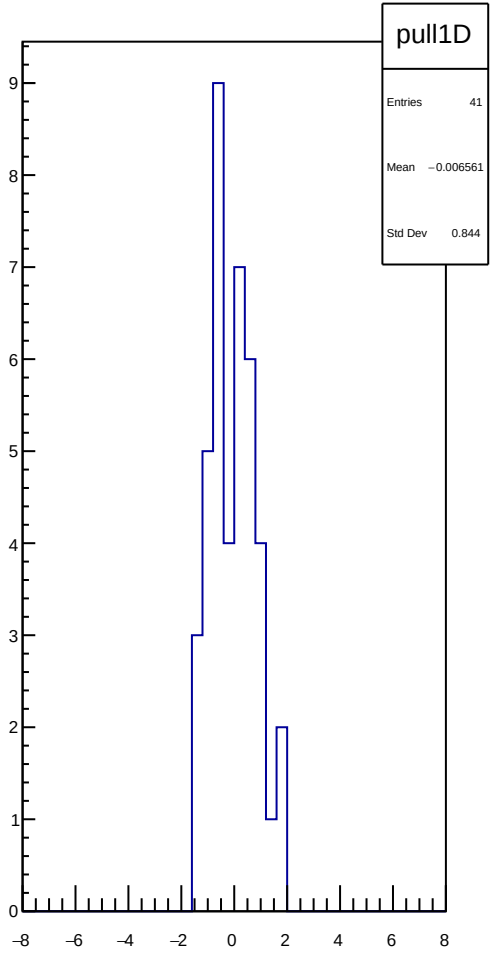
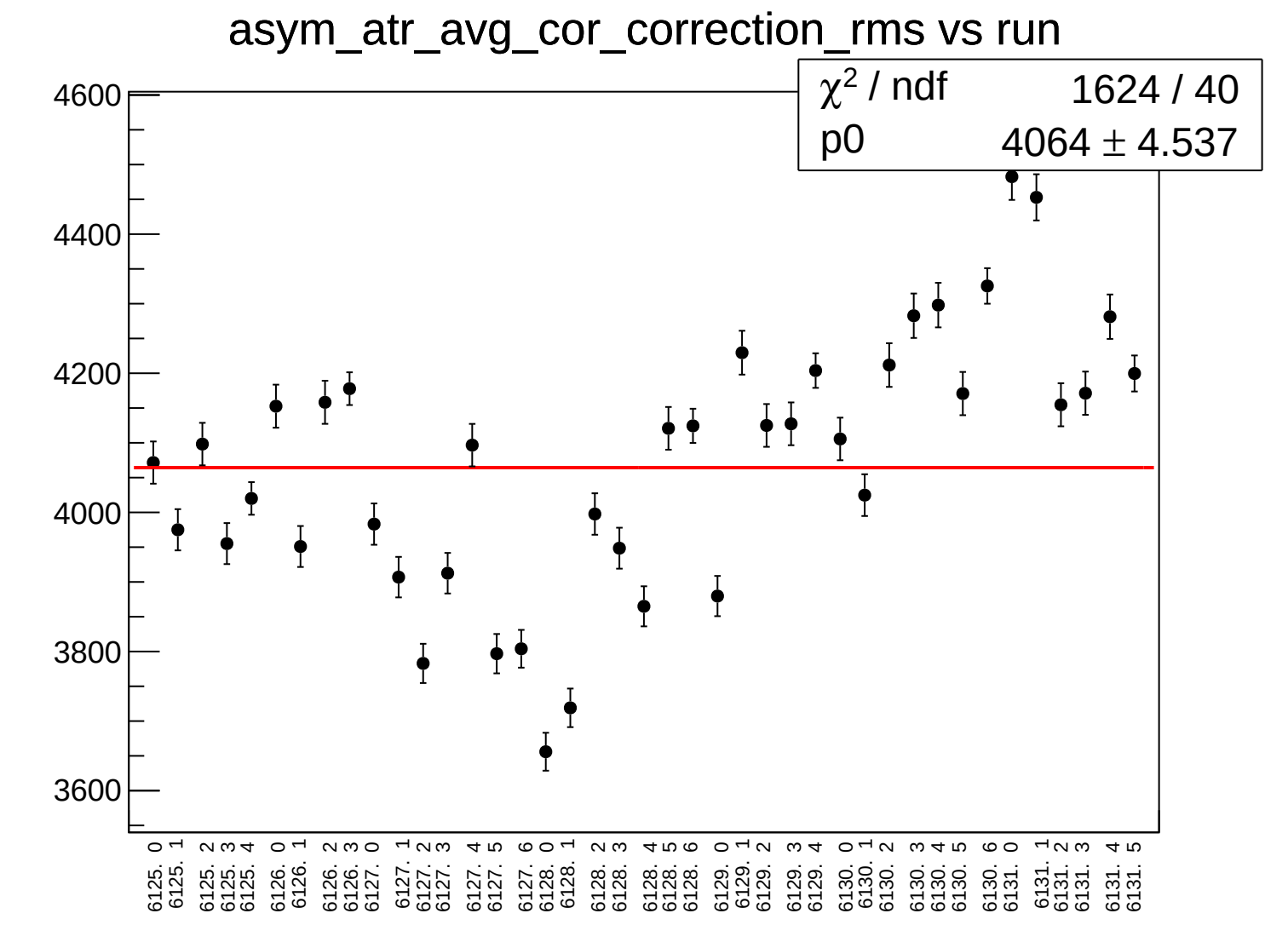
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr_avg_rms vs run
χ² / ndf 34.83 / 40
p0 1919 ± 2.14
1980
1960
1940
1920
1900
1880
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 29.21 / 40
p0 2037 ± 6416
150
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 132.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.006561
Std Dev 0.844
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_avg_cor_correction_rms vs run
χ² / ndf 1624 / 40
p0 4064 ± 4.537
4600
4400
4200
4000
3800
3600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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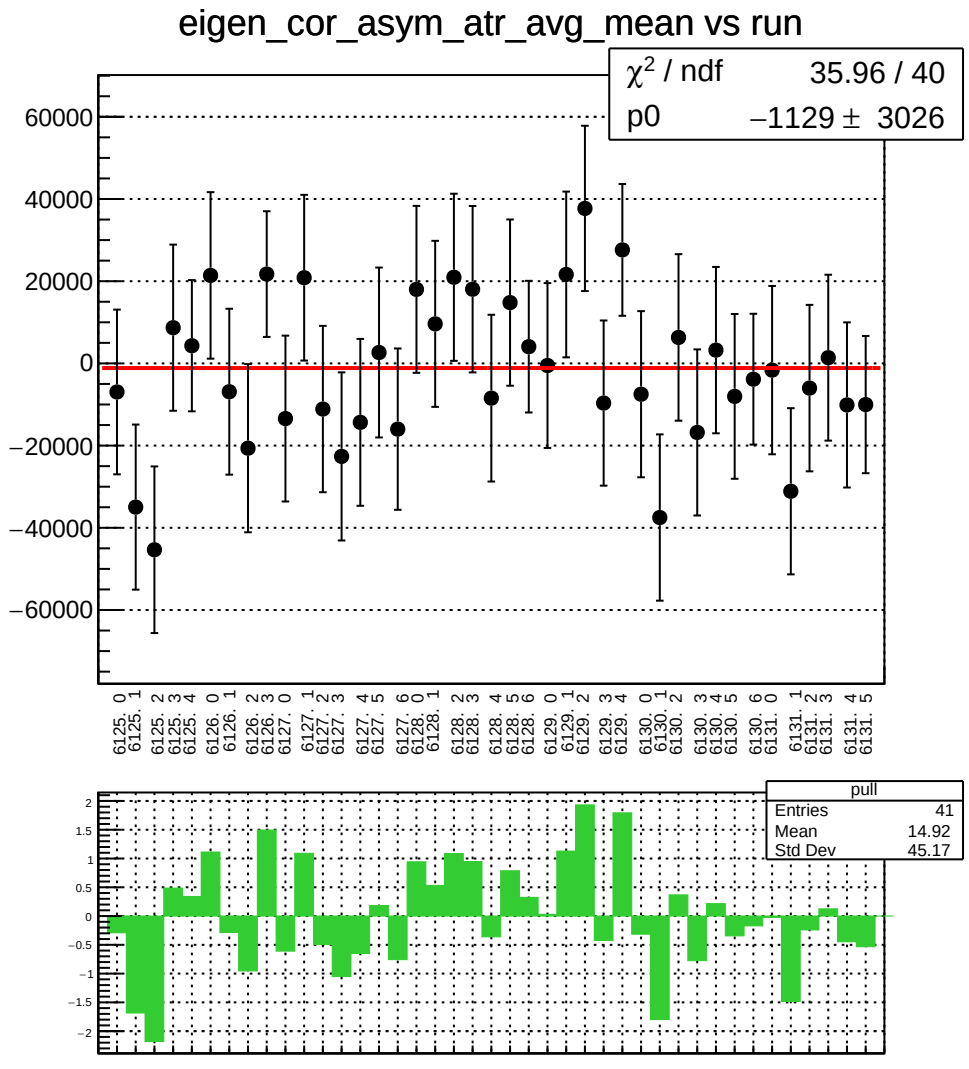
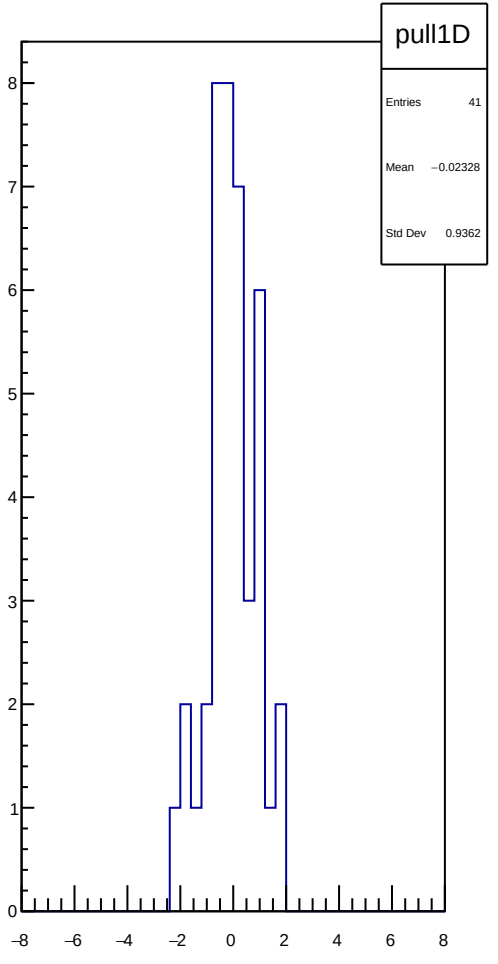
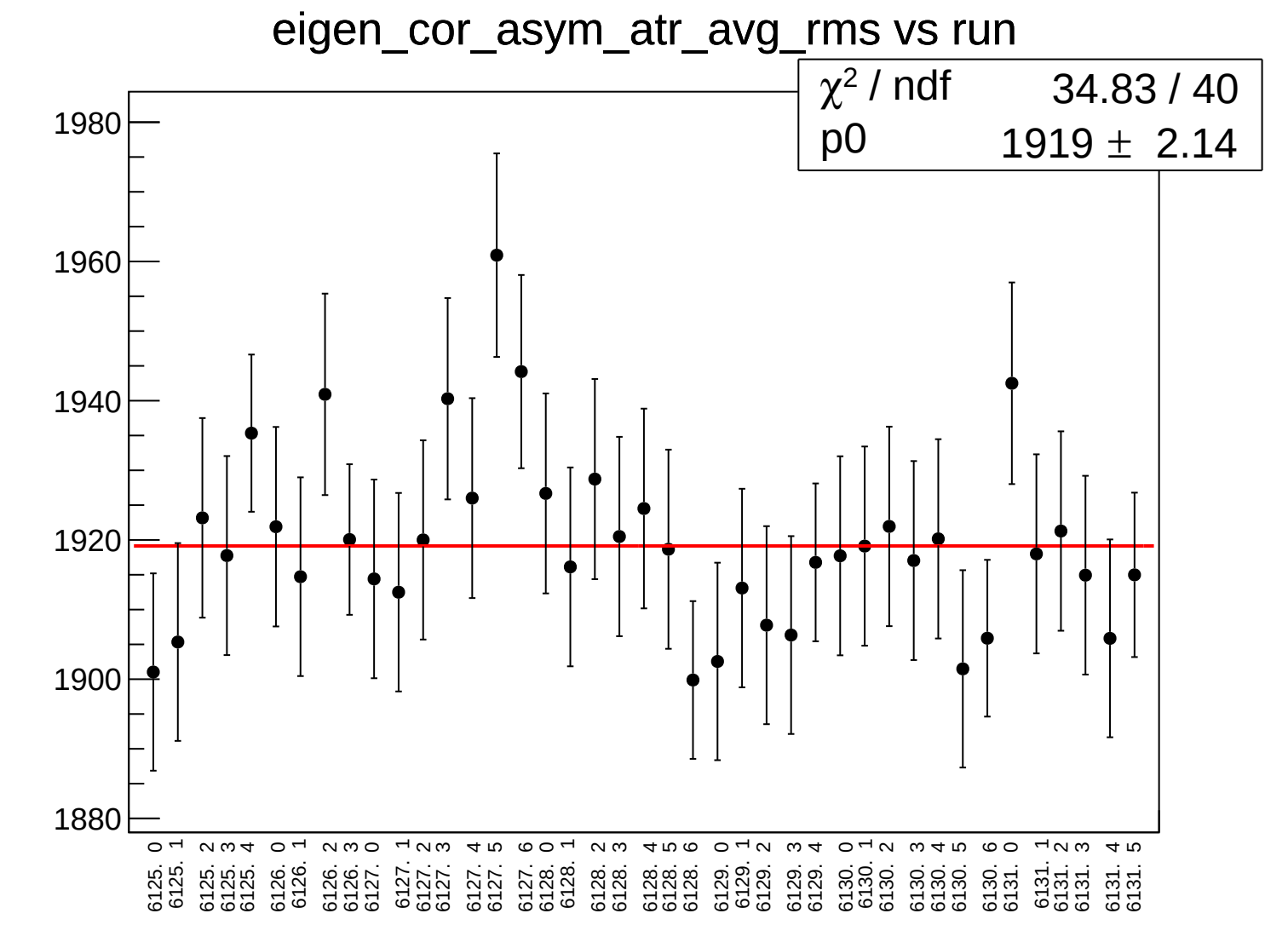
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 35.96 / 40
p0 −1129 ± 3026
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 14.92
Std Dev 45.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.02328
Std Dev 0.9362
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 34.83 / 40
p0 1919 ± 2.14
1980
1960
1940
1920
1900
1880
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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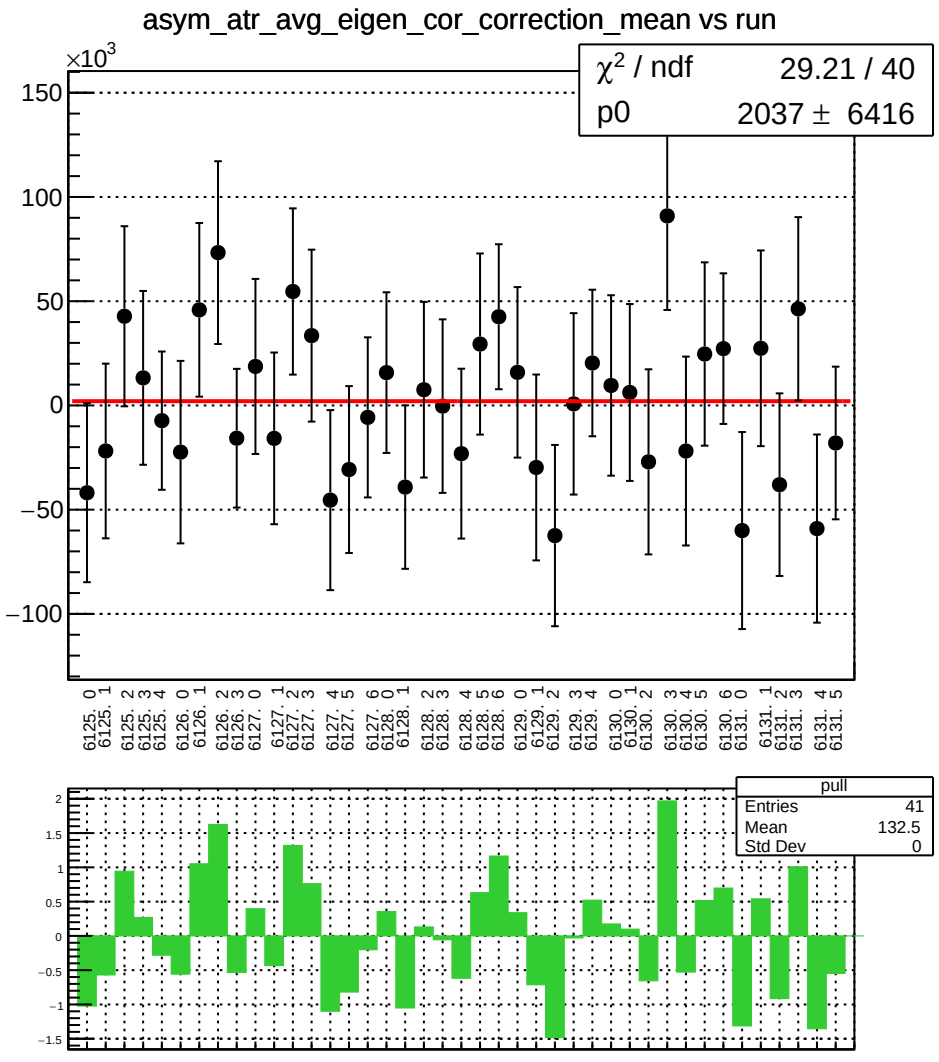
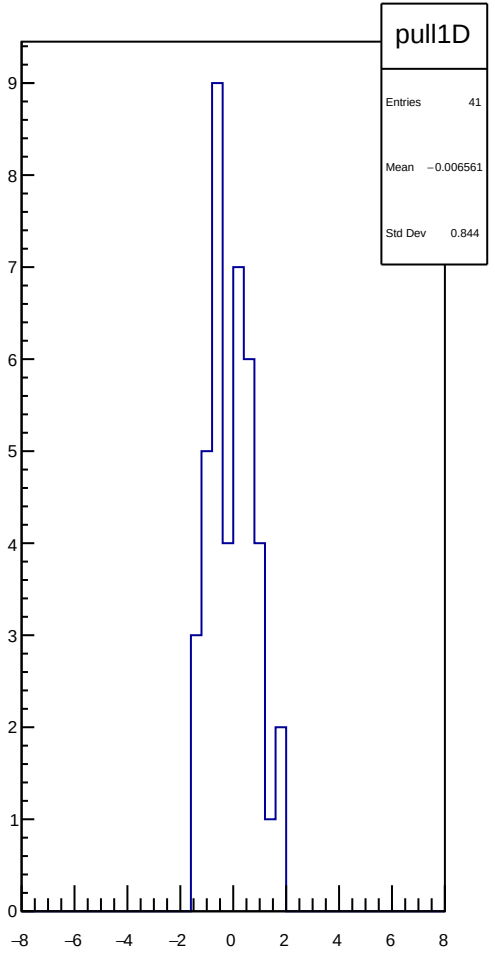
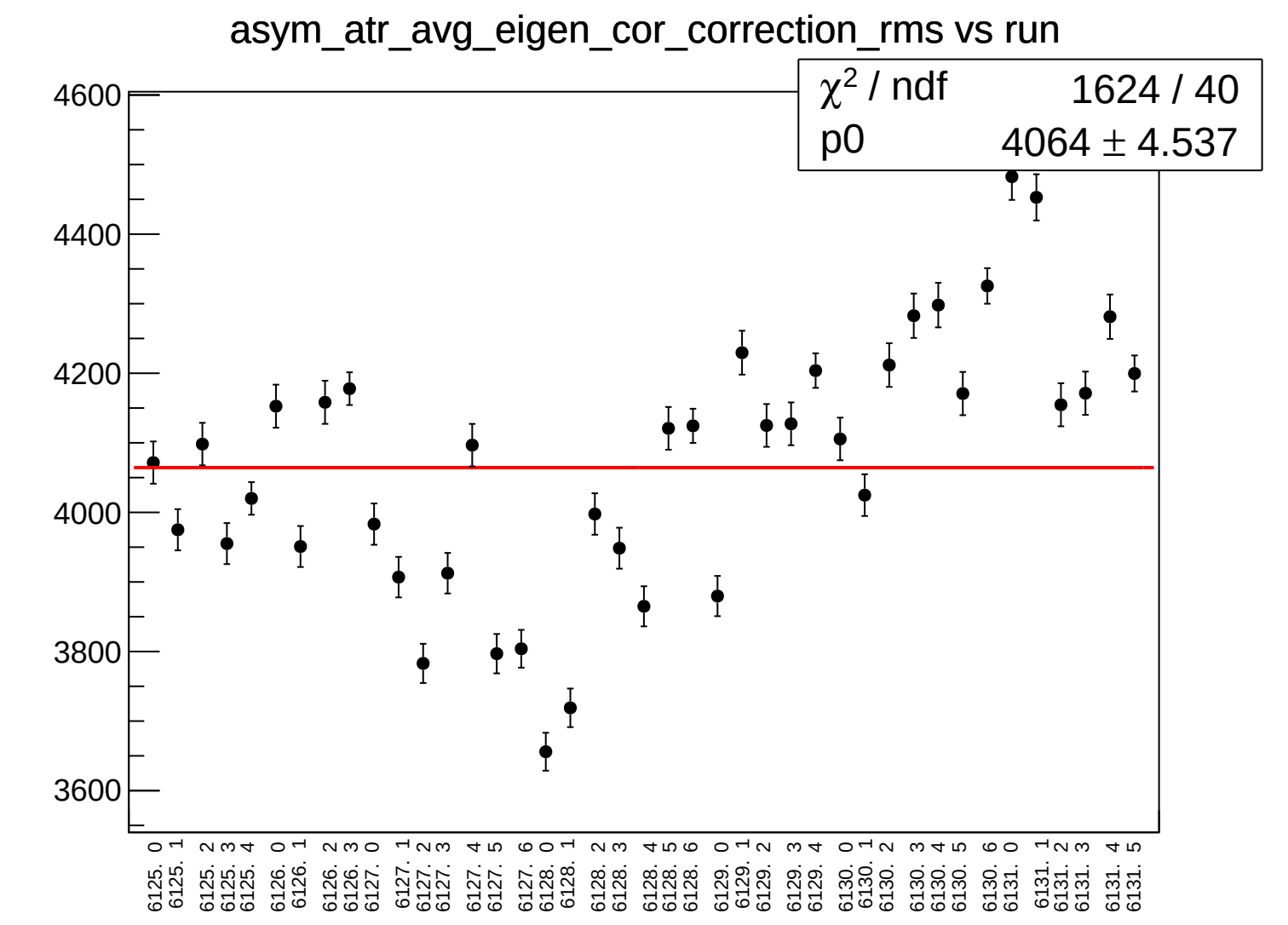
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 29.21 / 40
p0 2037 ± 6416
150
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 132.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.006561
Std Dev 0.844
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 1624 / 40
p0 4064 ± 4.537
4600
4400
4200
4000
3800
3600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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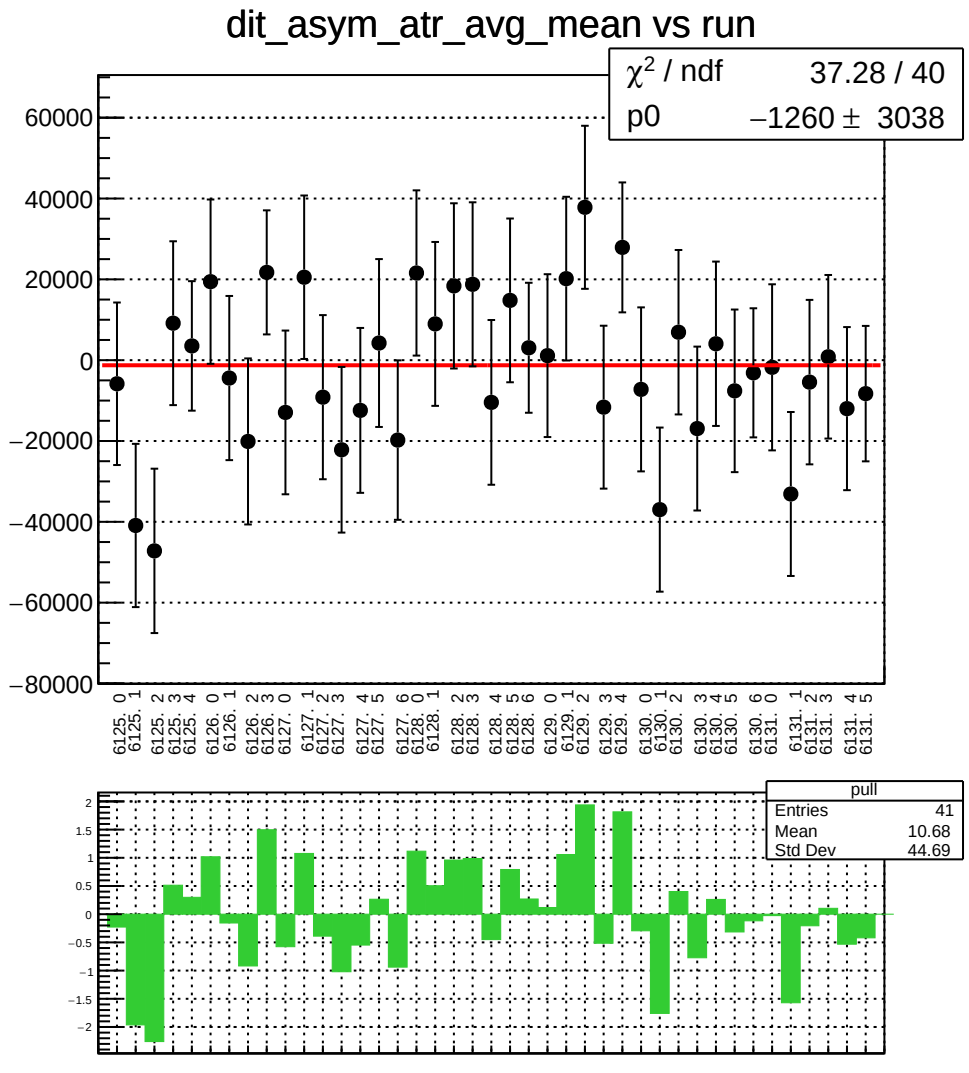
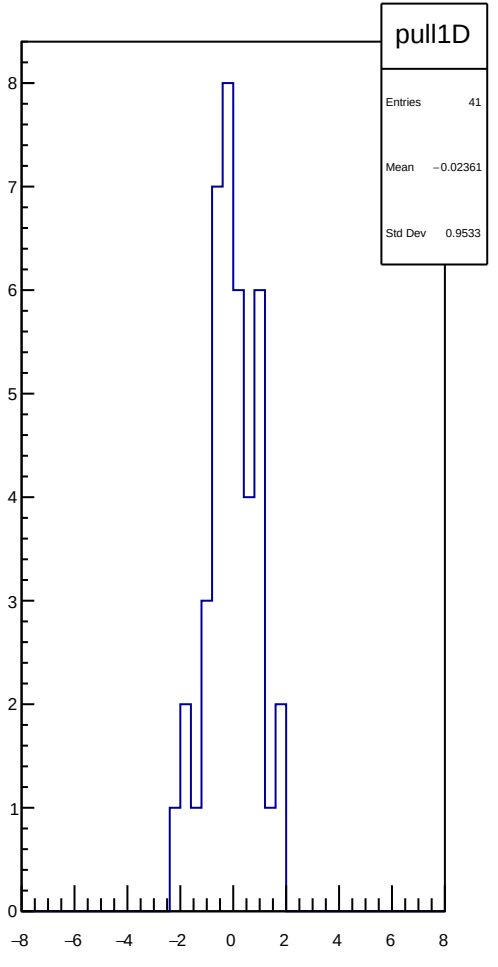
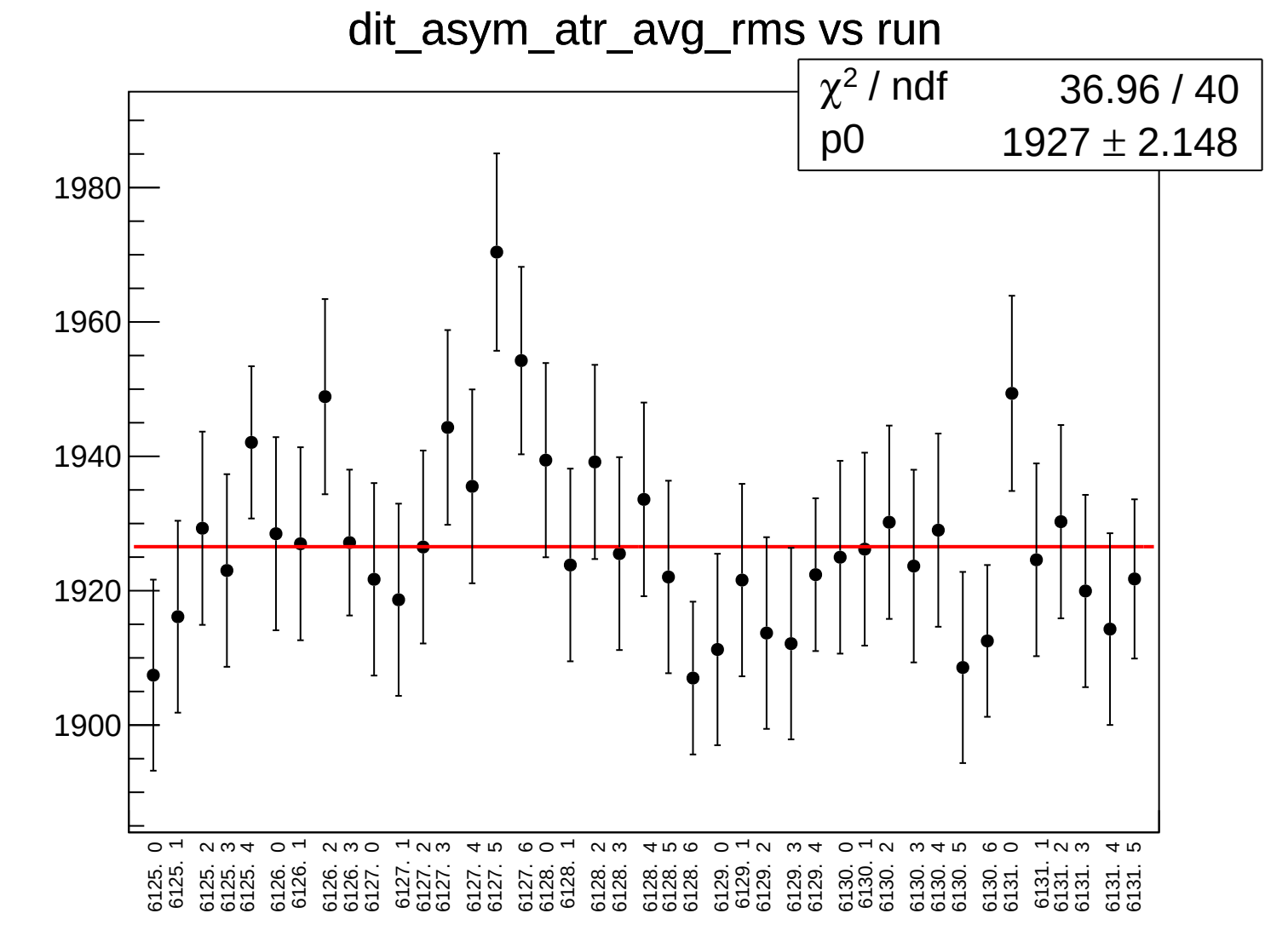
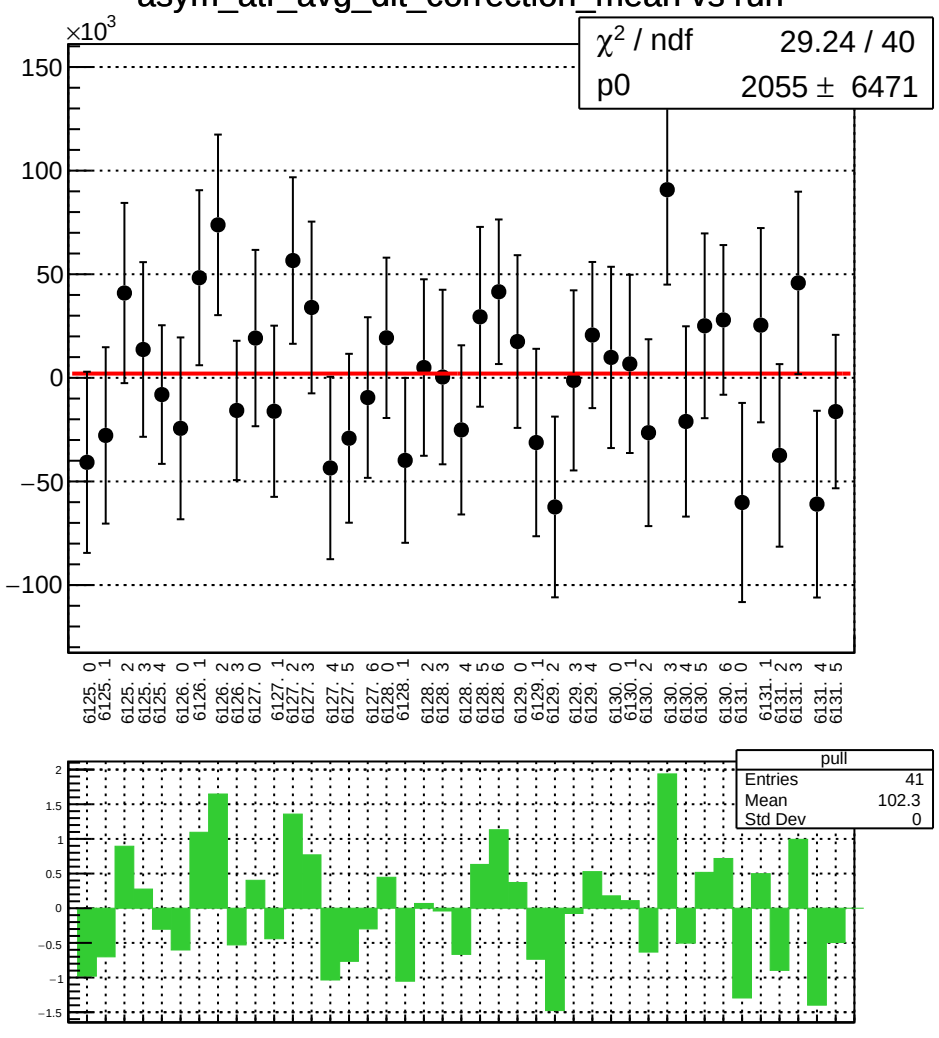
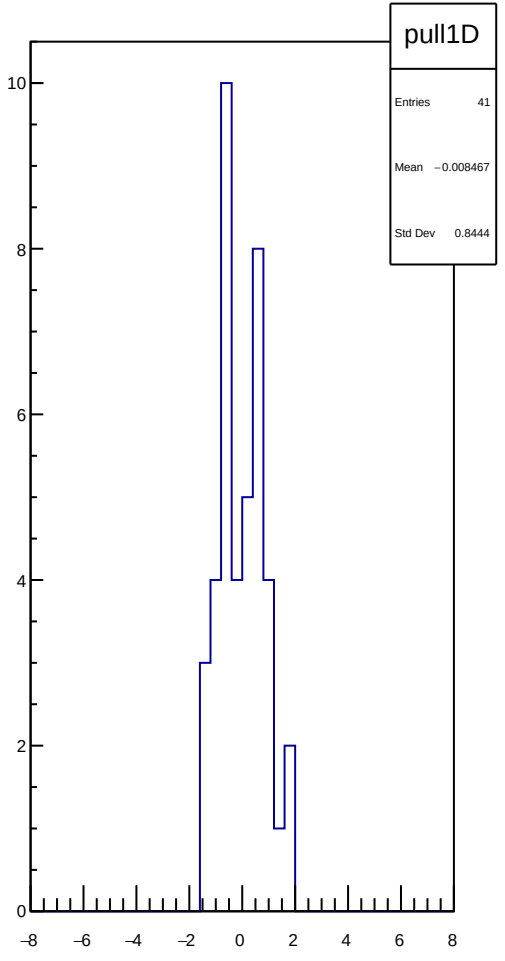
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

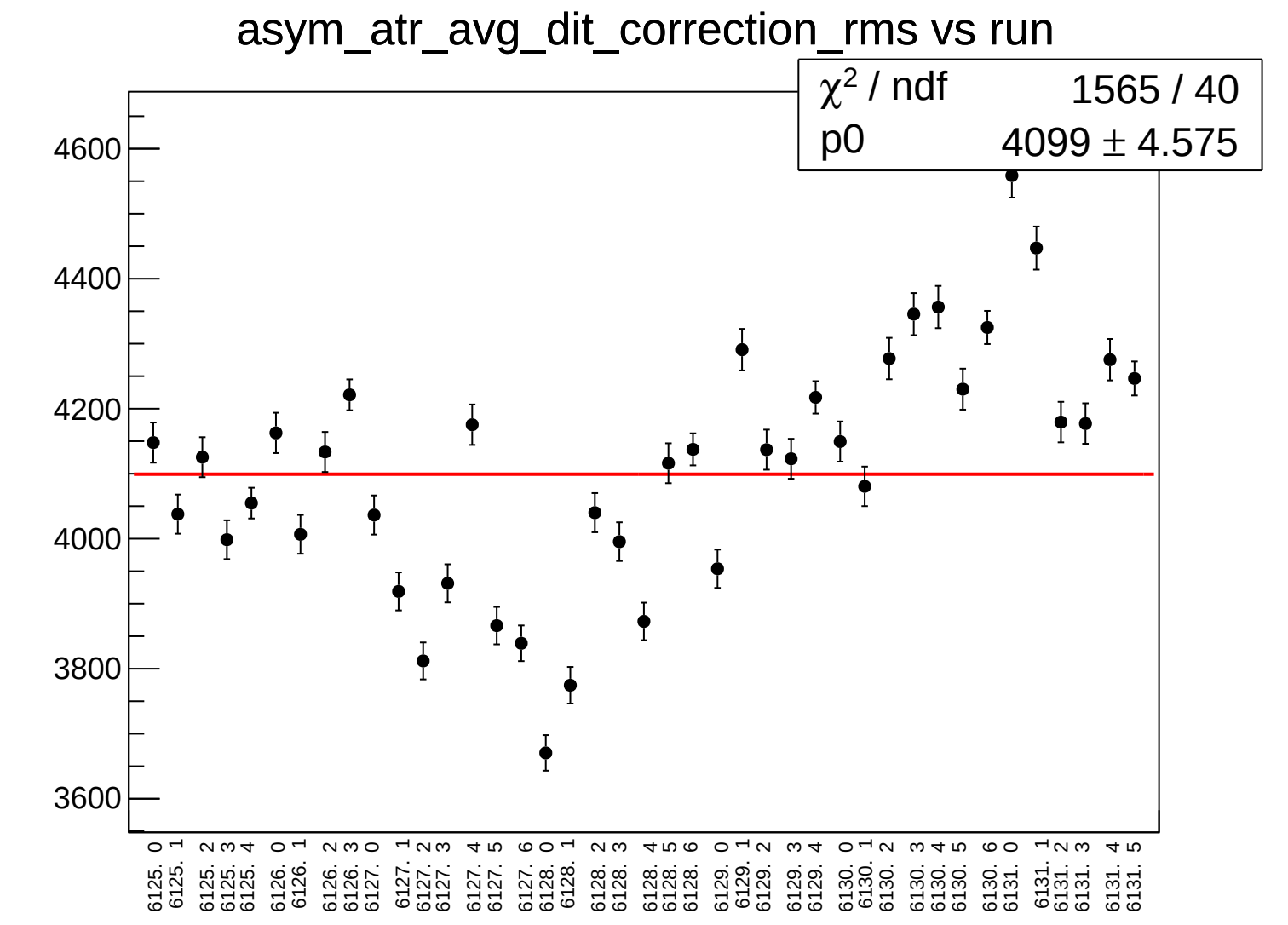

dit_asym_atr_avg_mean vs run
χ² / ndf 37.28 / 40
p0 −1260 ± 3038
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 10.68
Std Dev 44.69
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

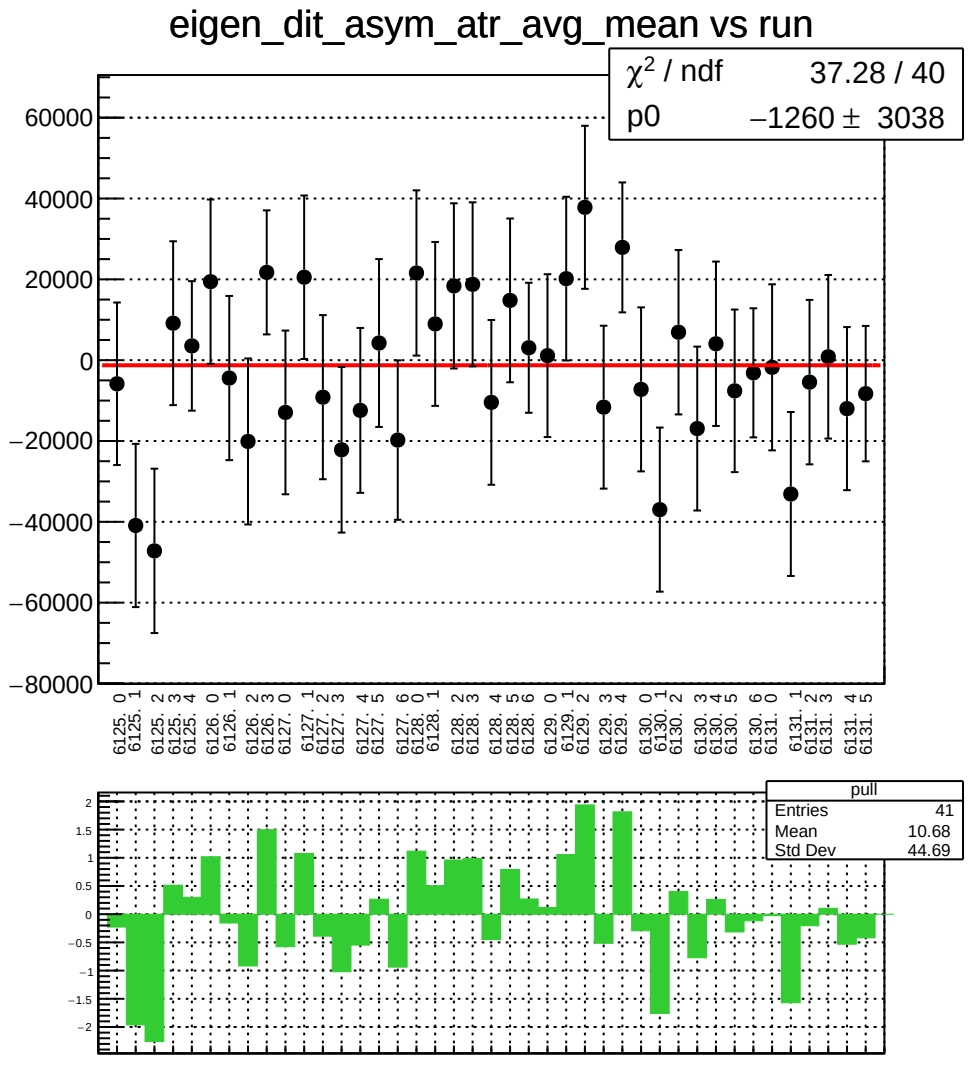

pull1D
Entries 41
Mean −0.02361
Std Dev 0.9533
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

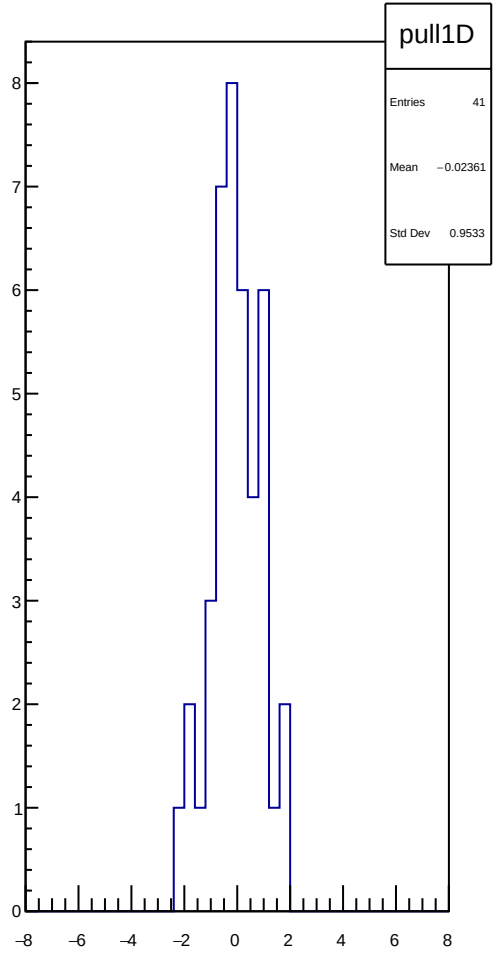

dit_asym_atr_avg_rms vs run
χ² / ndf 36.96 / 40
p0 1927 ± 2.148
1980
1960
1940
1920
1900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

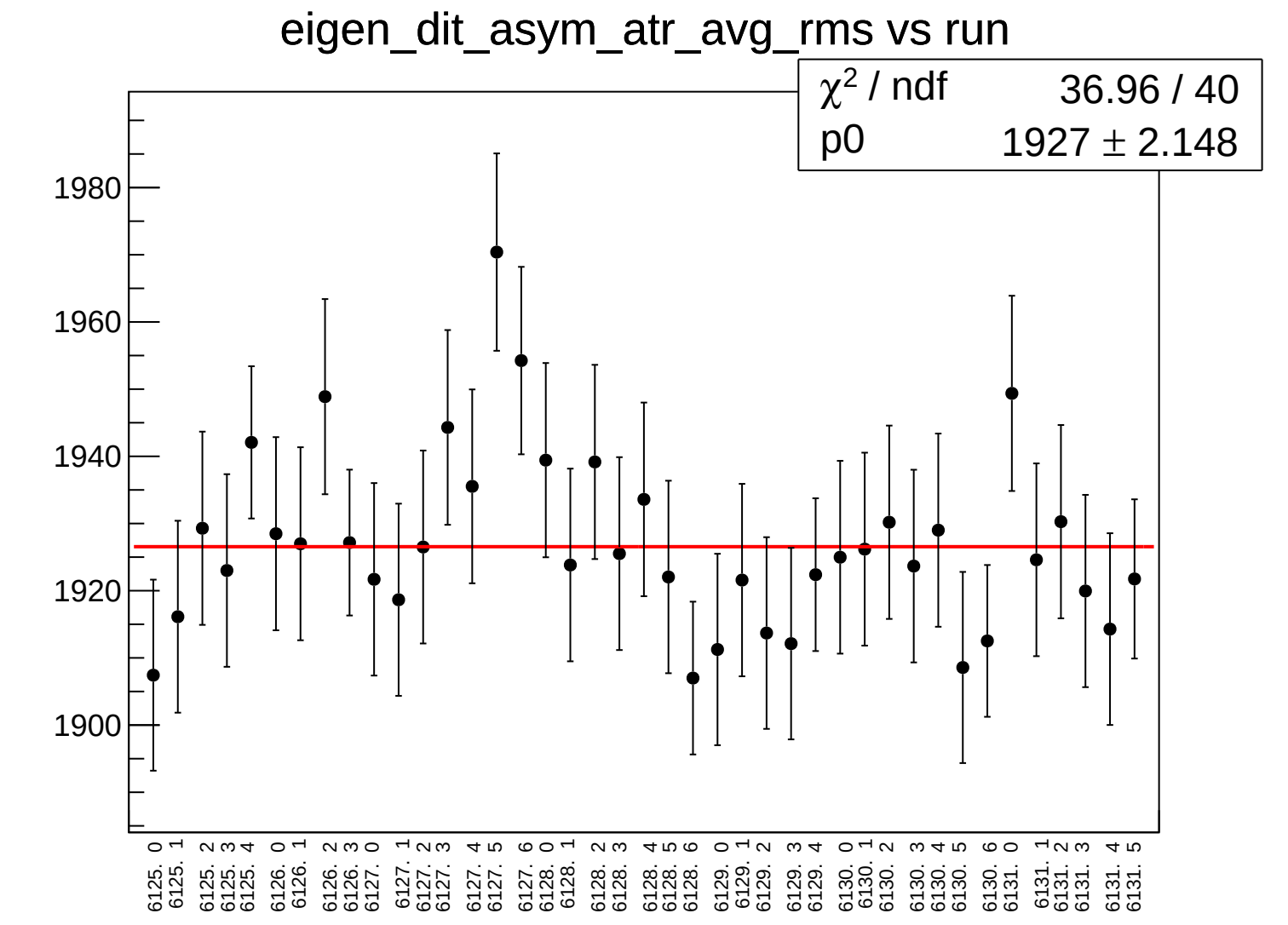

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 29.24 / 40
p0 2055 ± 6471
150
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 102.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.008467
Std Dev 0.8444
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 1565 / 40
p0 4099 ± 4.575
4600
4400
4200
4000
3800
3600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 37.28 / 40
p0 −1260 ± 3038
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 10.68
Std Dev 44.69
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.02361
Std Dev 0.9533
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 36.96 / 40
p0 1927 ± 2.148
1980
1960
1940
1920
1900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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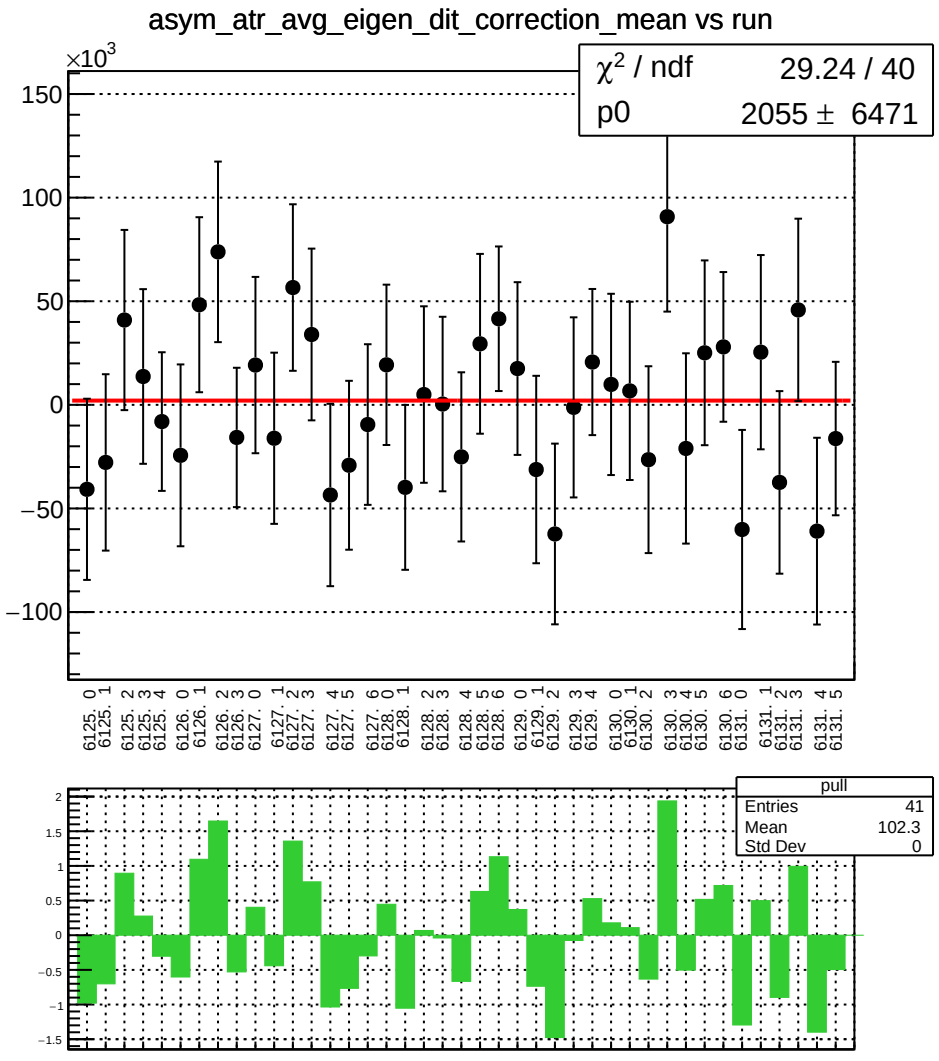
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 29.24 / 40
p0 2055 ± 6471
150
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
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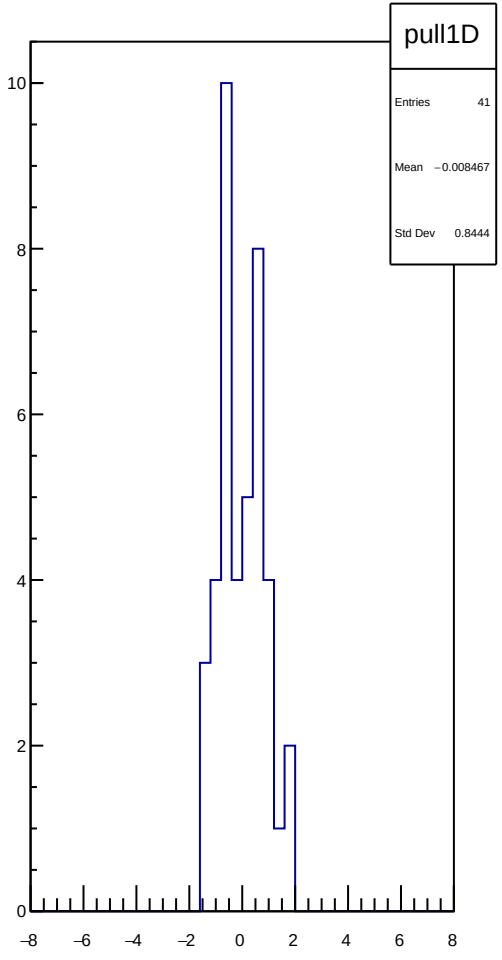
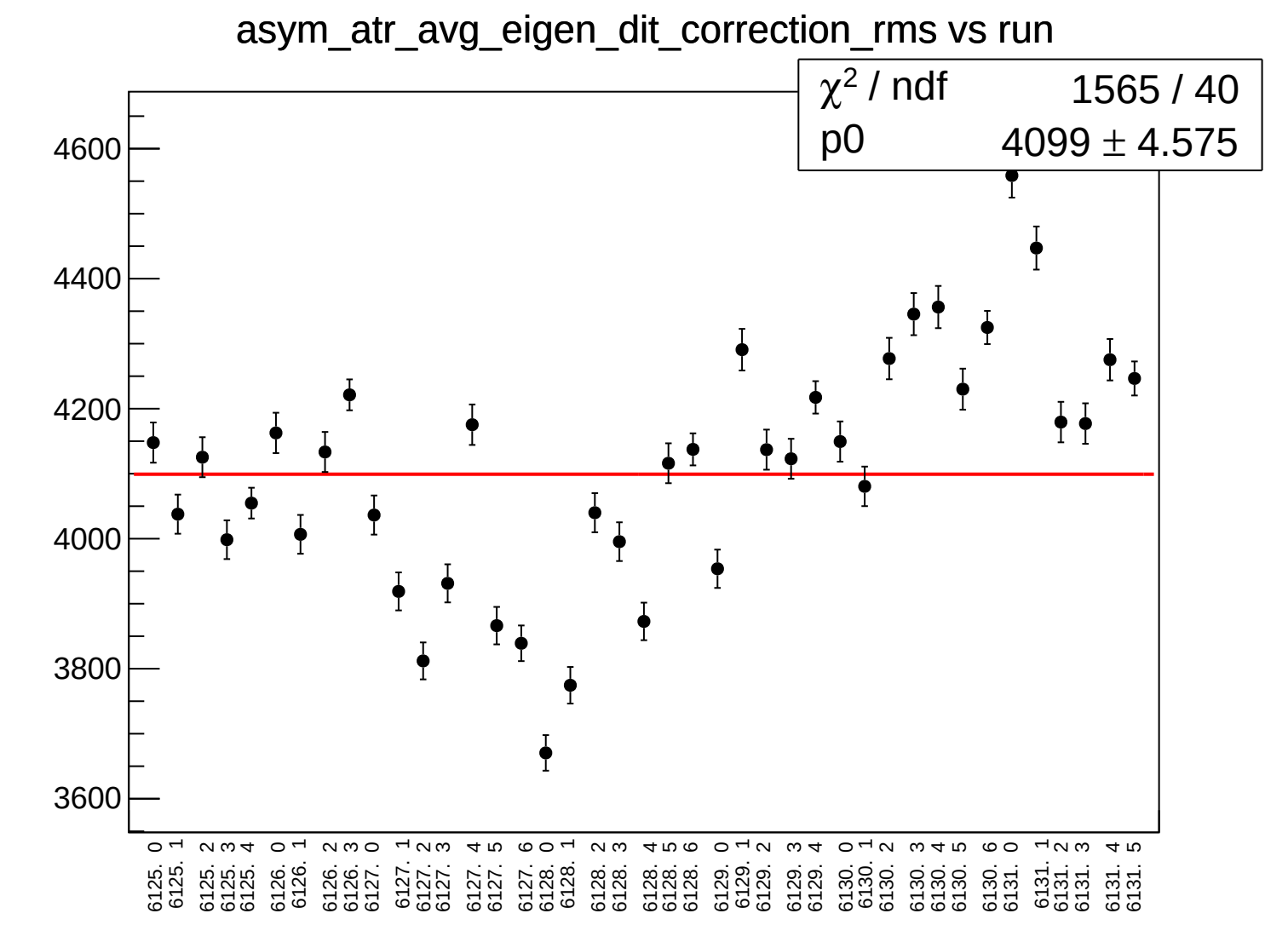
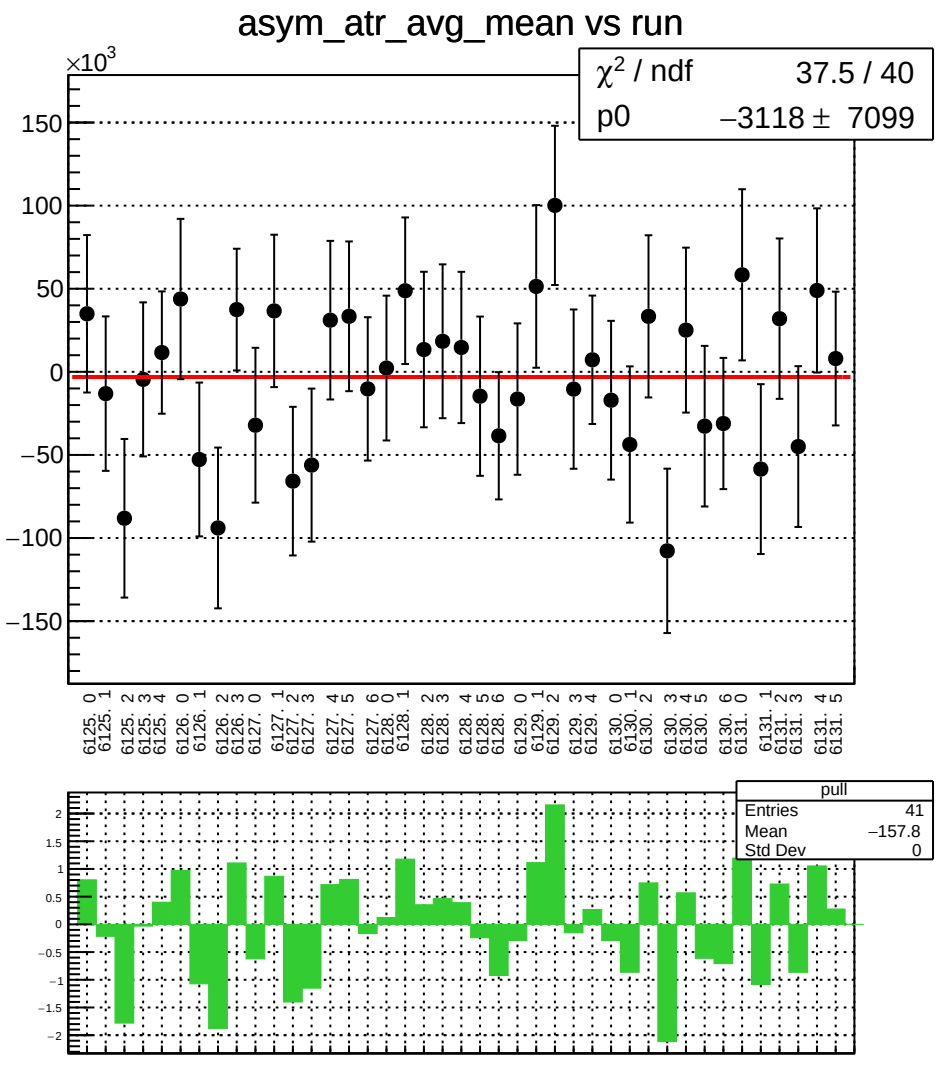
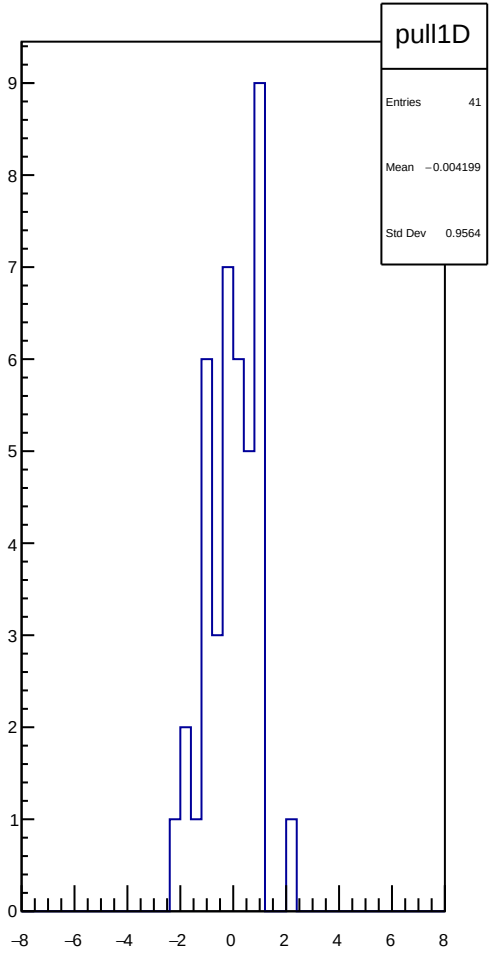
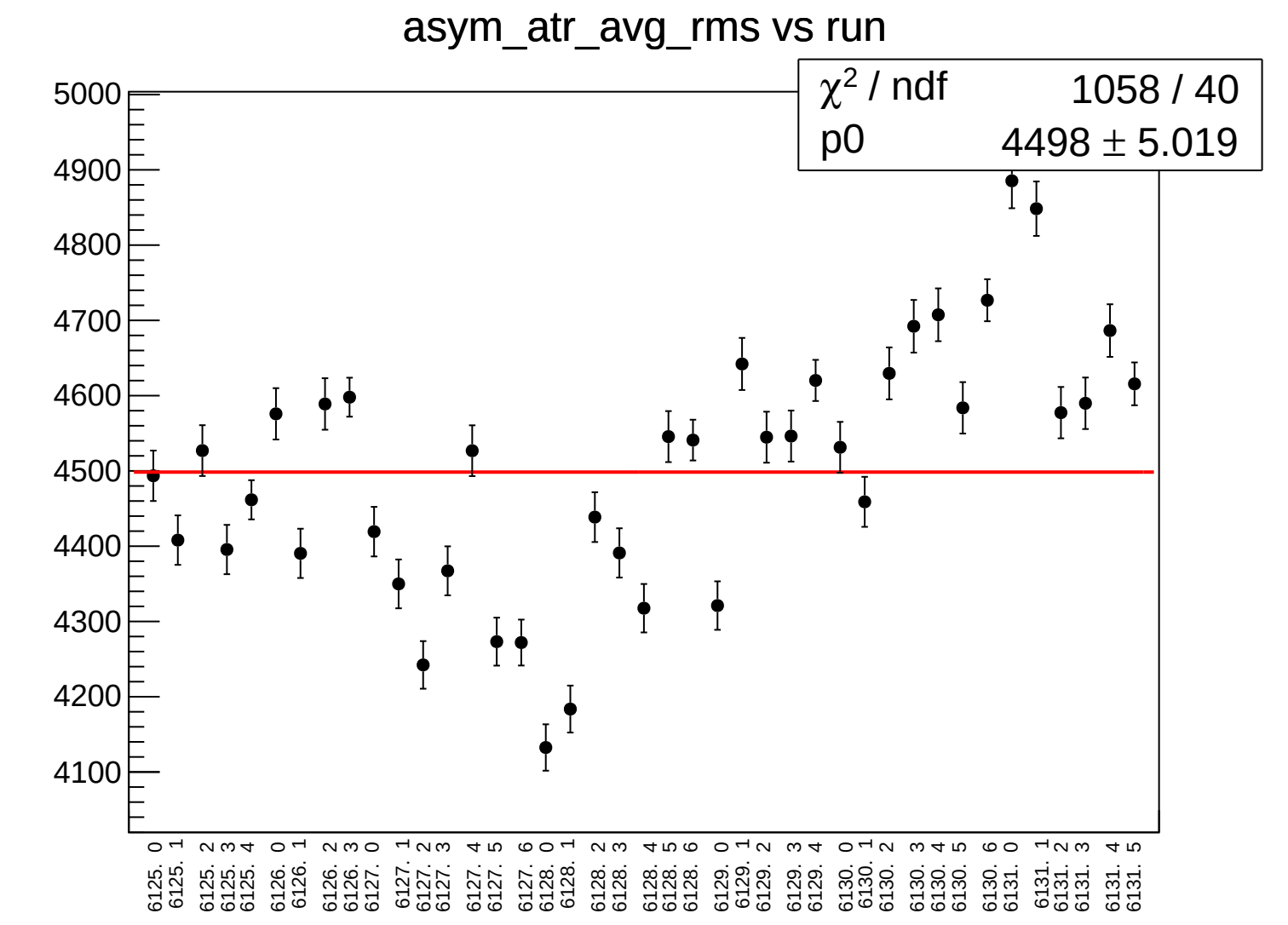
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 102.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

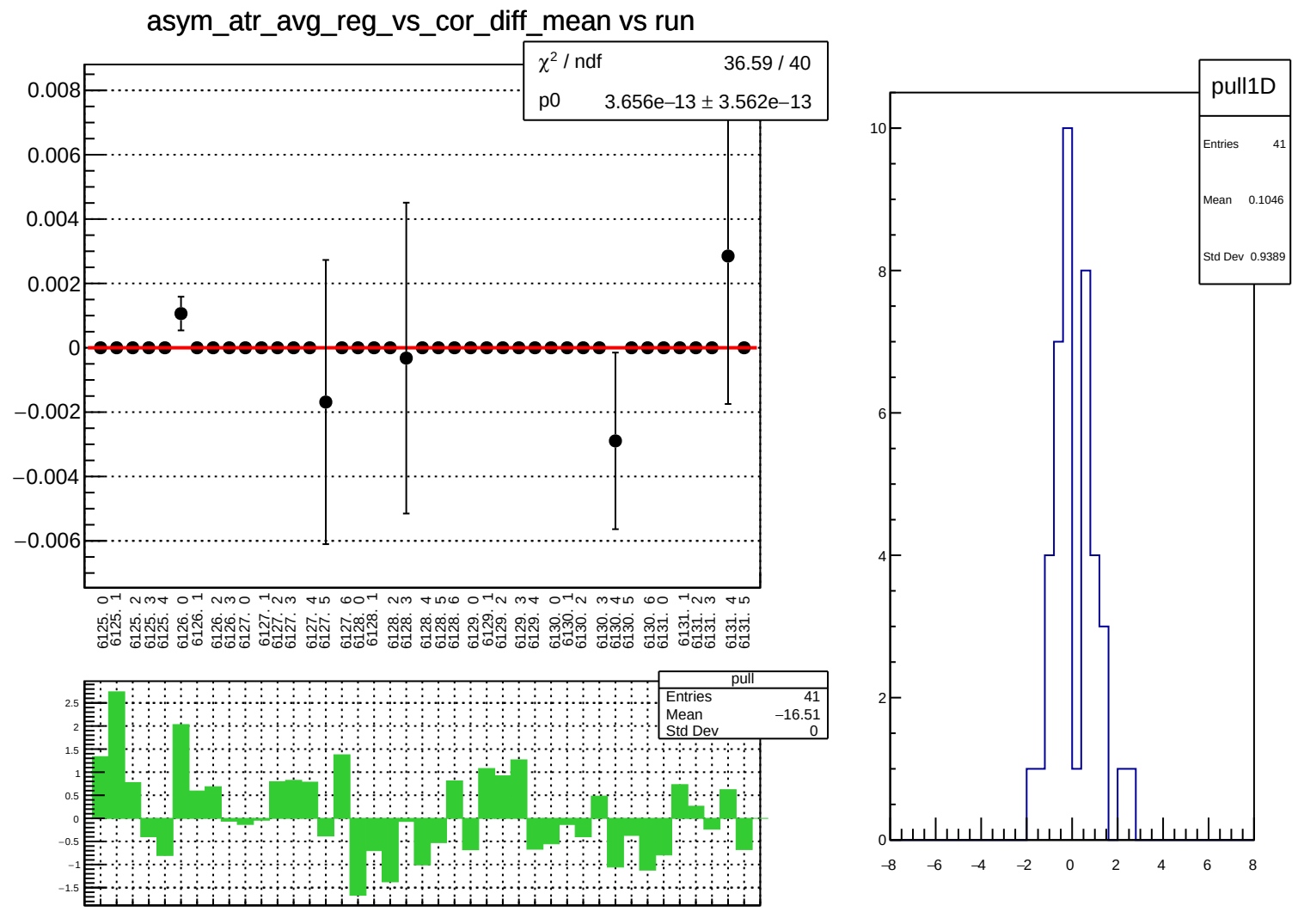

pull1D
Entries 41
Mean −0.008467
Std Dev 0.8444
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

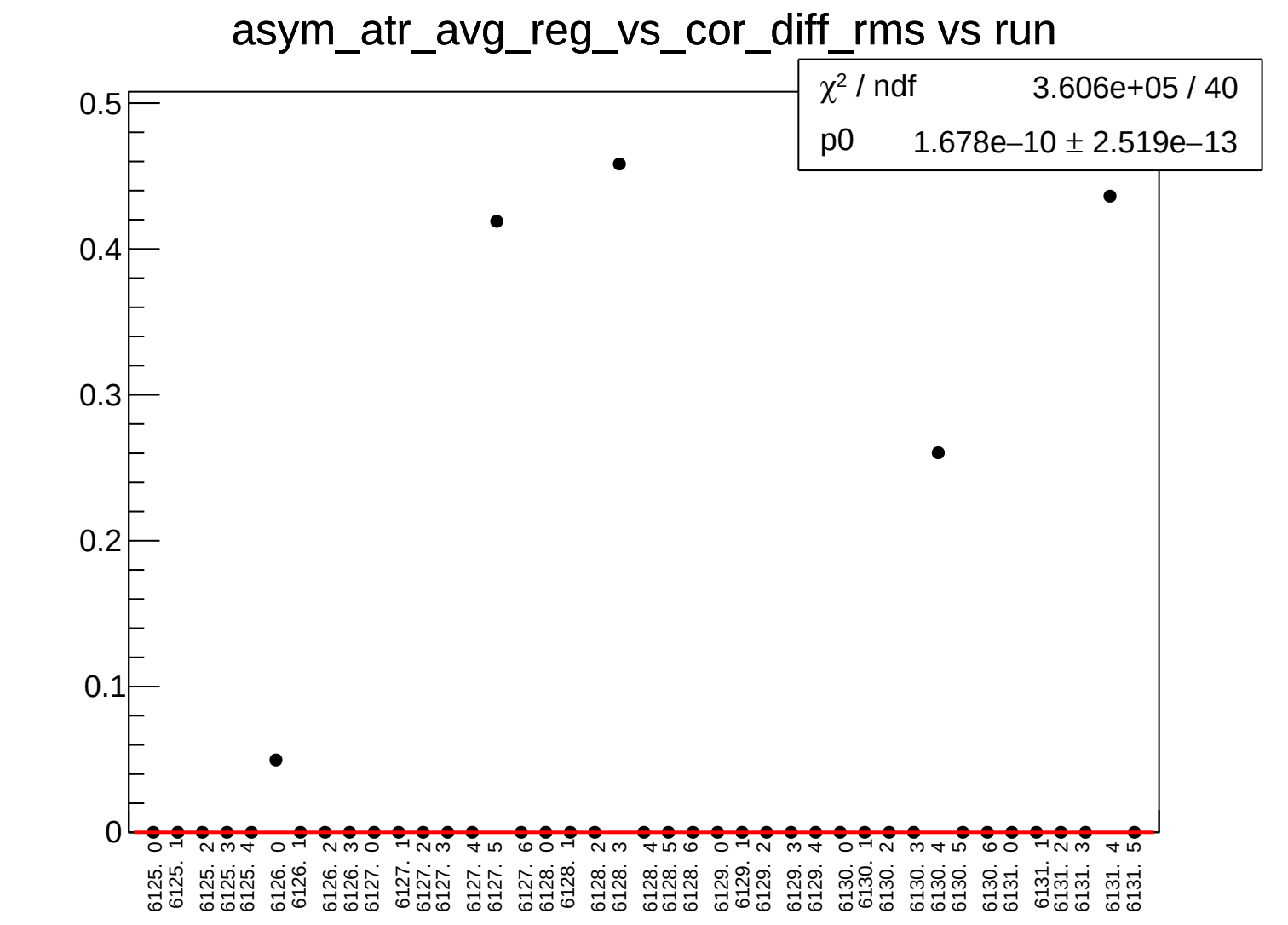

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 1565 / 40
p0 4099 ± 4.575
4600
4400
4200
4000
3800
3600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

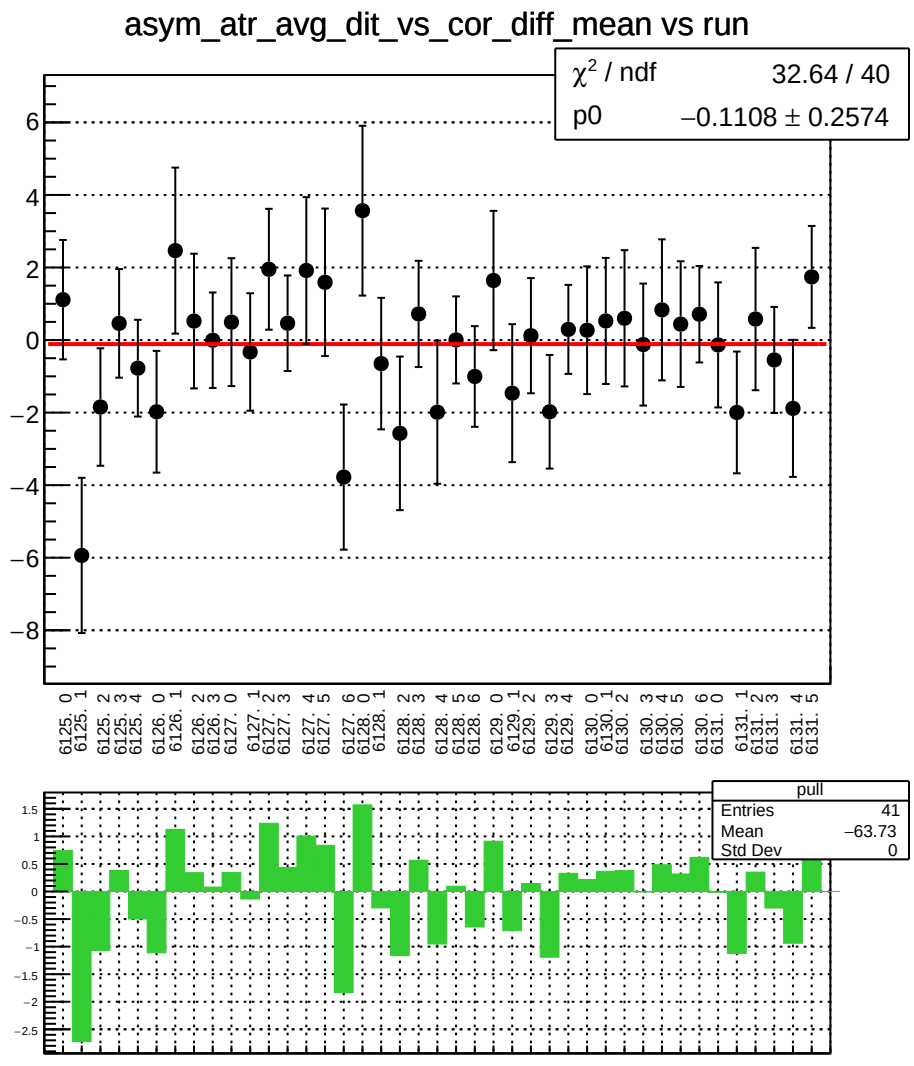

asym_atr_avg_mean vs run
×10^3
χ² / ndf 37.5 / 40
p0 −3118 ± 7099
150
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −157.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

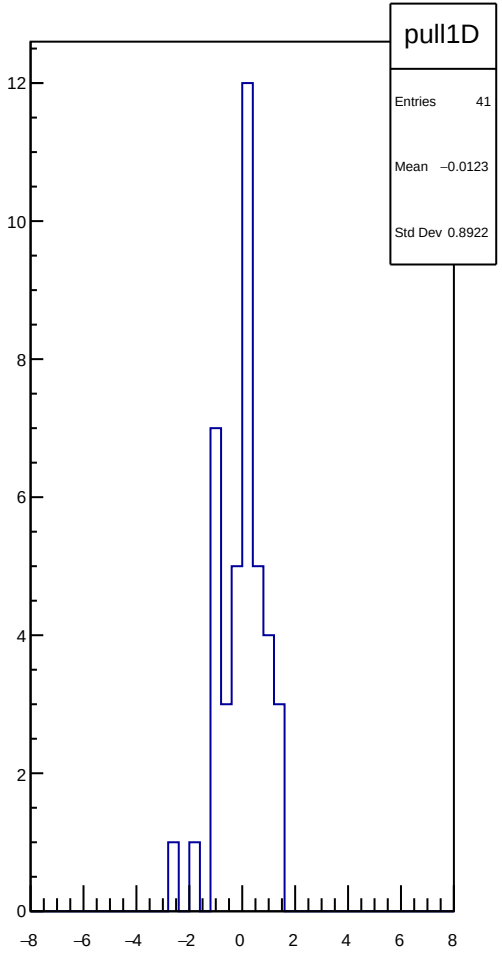

pull1D
Entries 41
Mean −0.004199
Std Dev 0.9564
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

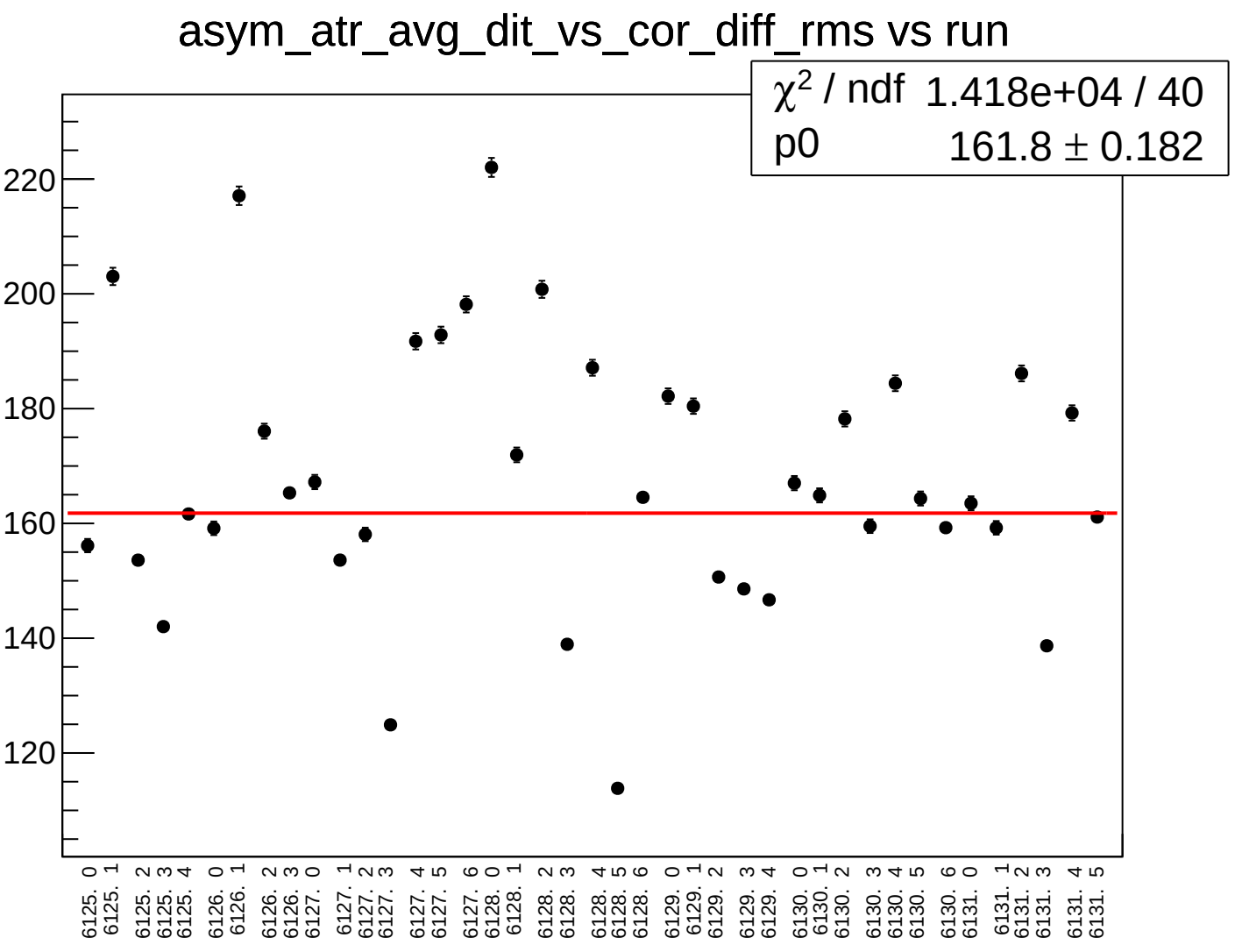

asym_atr_avg_rms vs run
χ^2 / ndf 1058 / 40
p0 4498 ± 5.019
5000
4900
4800
4700
4600
4500
4400
4300
4200
4100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

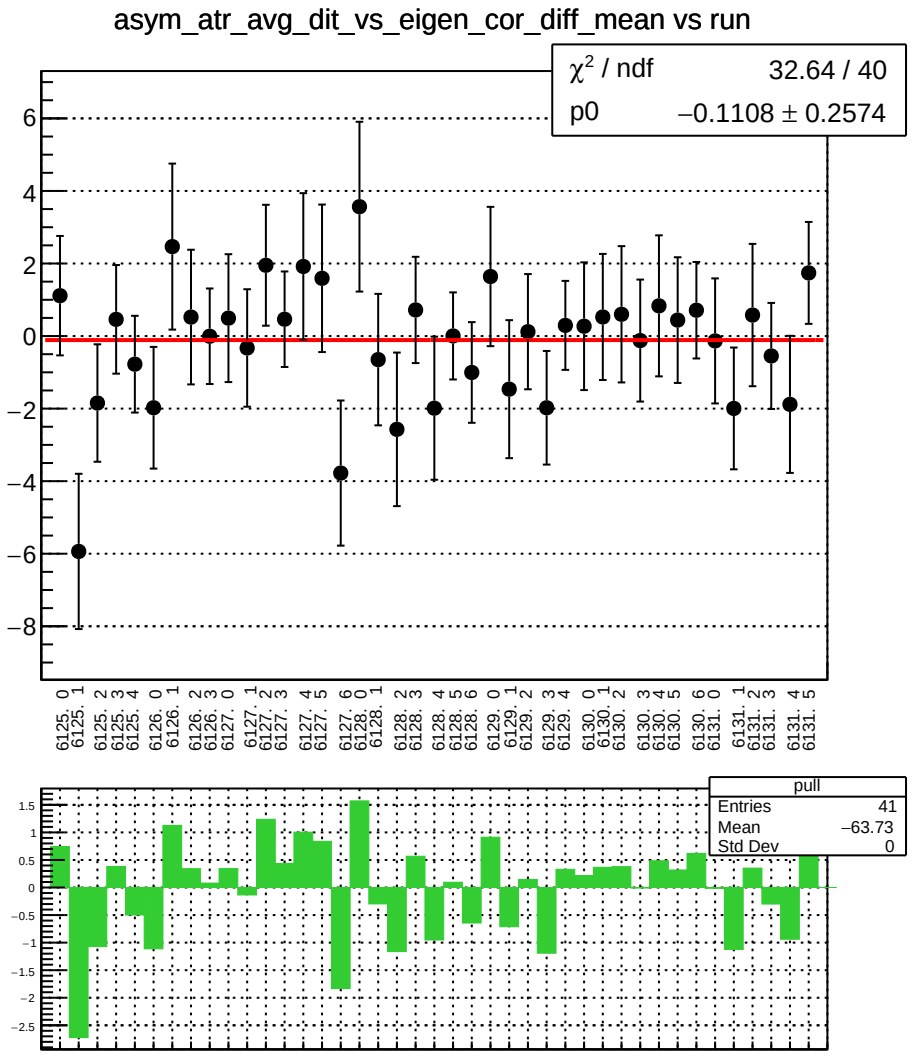

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 36.59 / 40
p0 3.656e−13 ± 3.562e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −16.51
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.1046
Std Dev 0.9389
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

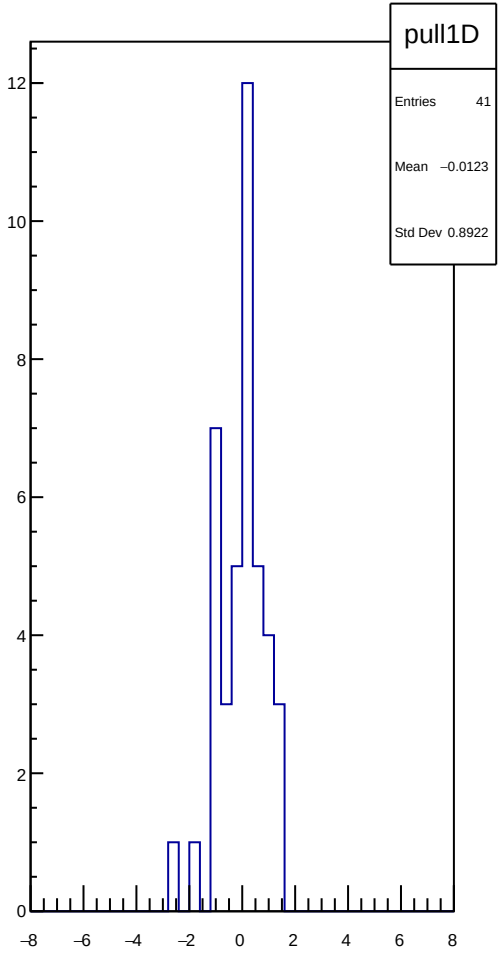

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.606e+05 / 40
p0 1.678e−10 ± 2.519e−13
0.5
0.4
0.3
0.2
0.1
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

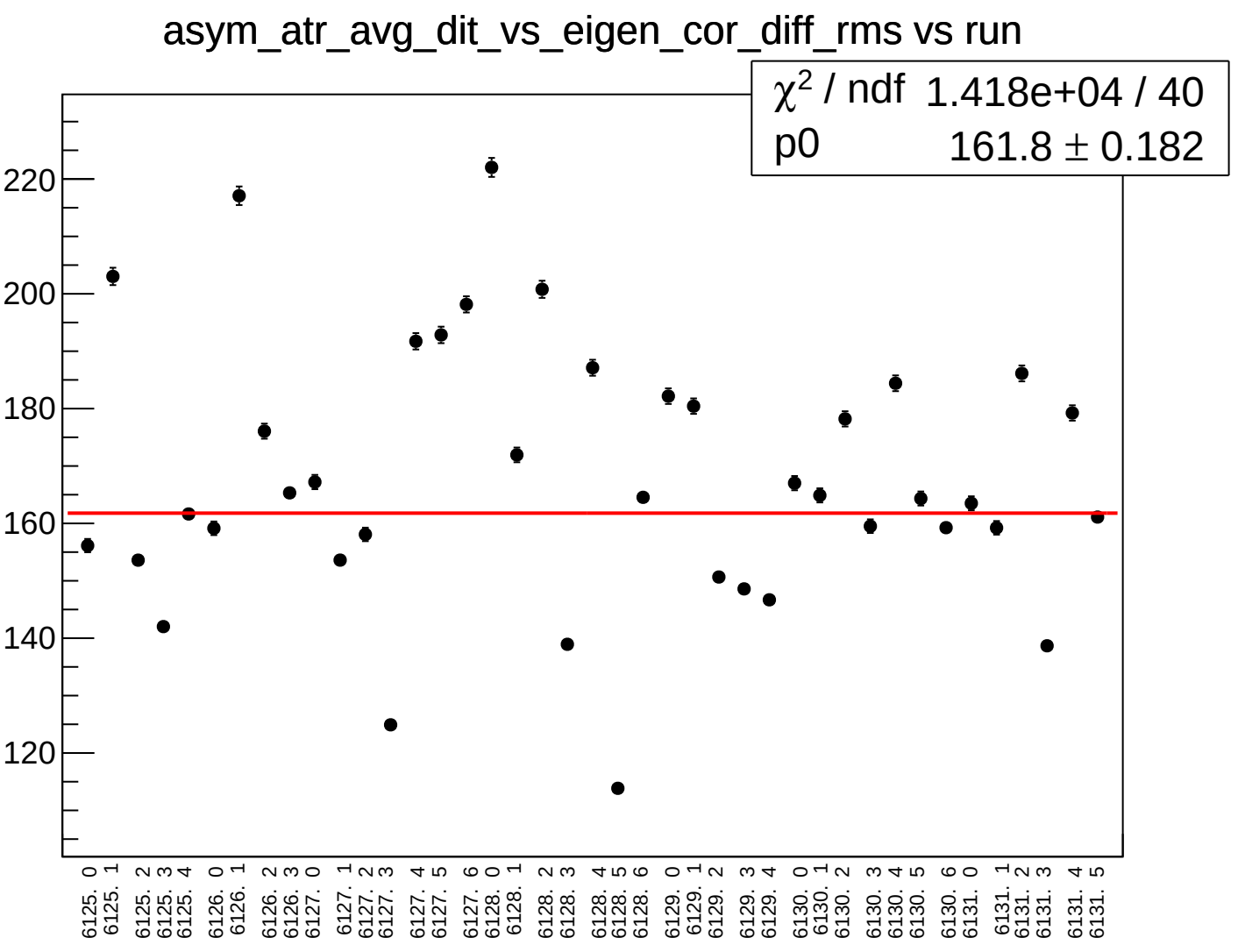

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 32.64 / 40
p0 −0.1108 ± 0.2574
pull
Entries 41
Mean −63.73
Std Dev 0

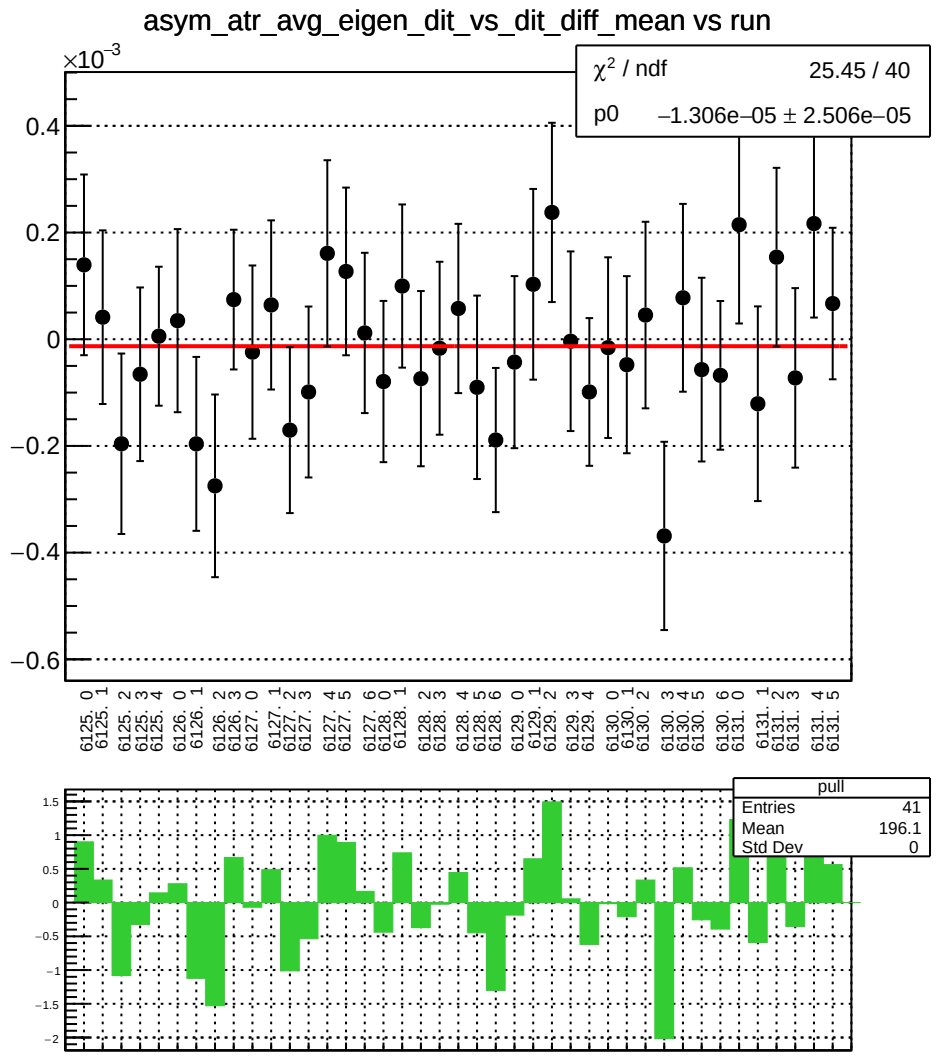

pull1D
Entries 41
Mean −0.0123
Std Dev 0.8922

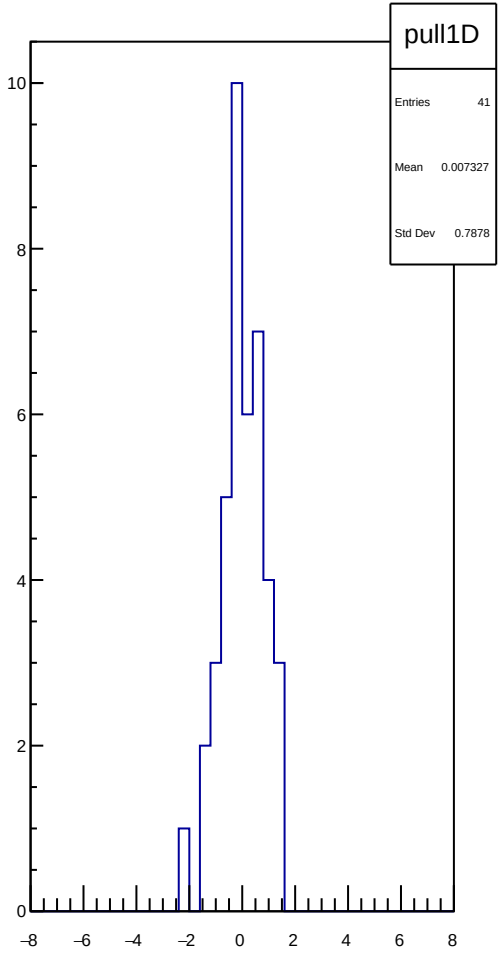

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.418e+04 / 40
p0 161.8 ± 0.182
220
200
180
160
140
120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

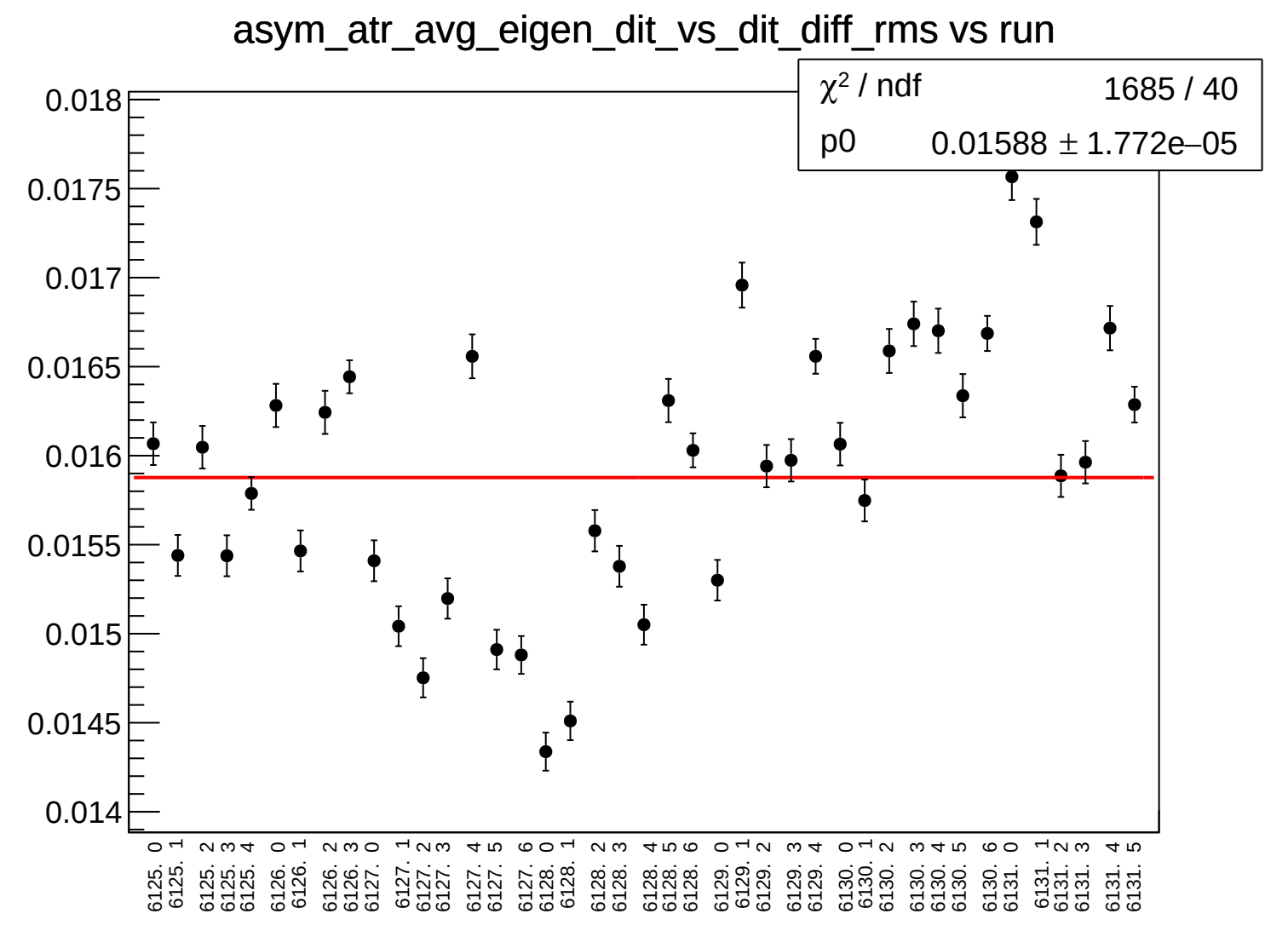

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.64 / 40
p0 −0.1108 ± 0.2574
pull
Entries 41
Mean −63.73
Std Dev 0

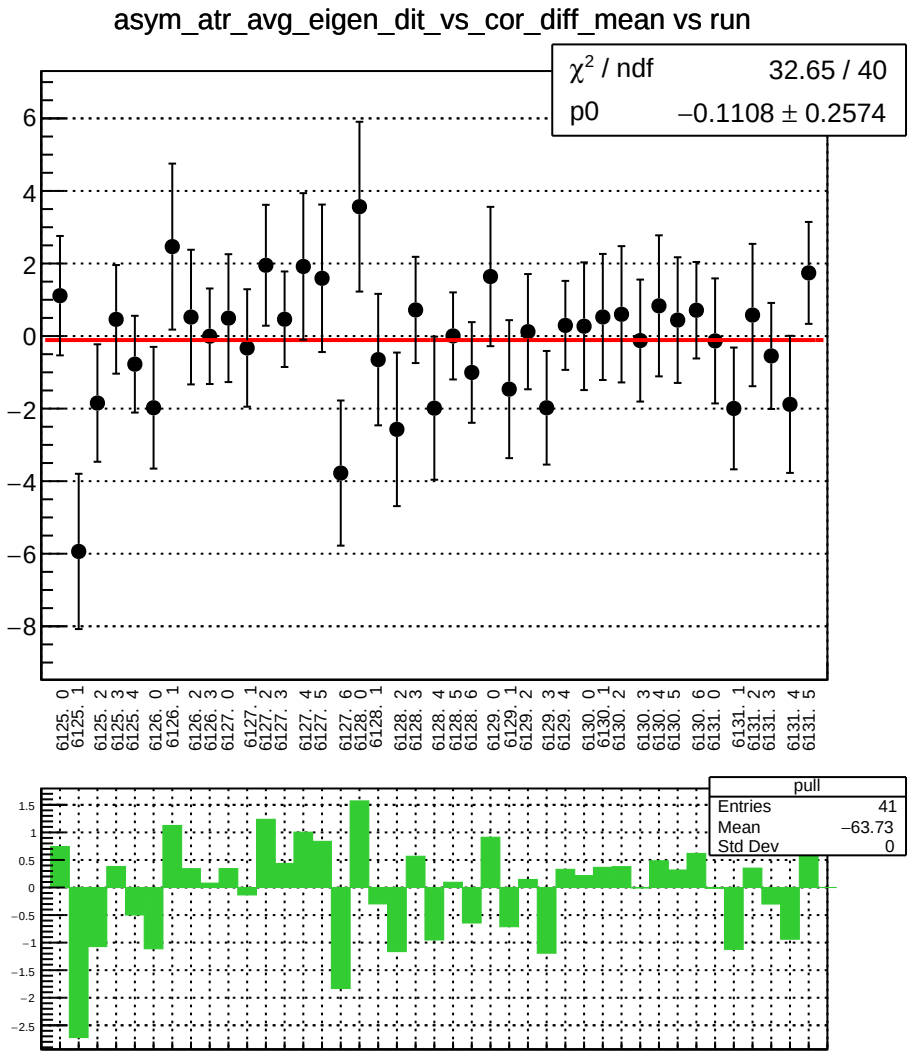

pull1D
Entries 41
Mean −0.0123
Std Dev 0.8922

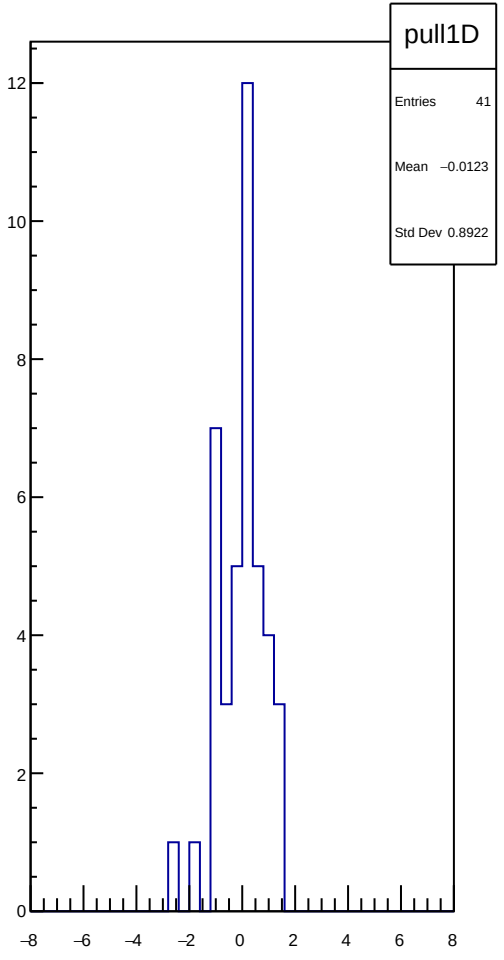

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.418e+04 / 40
p0 161.8 ± 0.182
220
200
180
160
140
120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

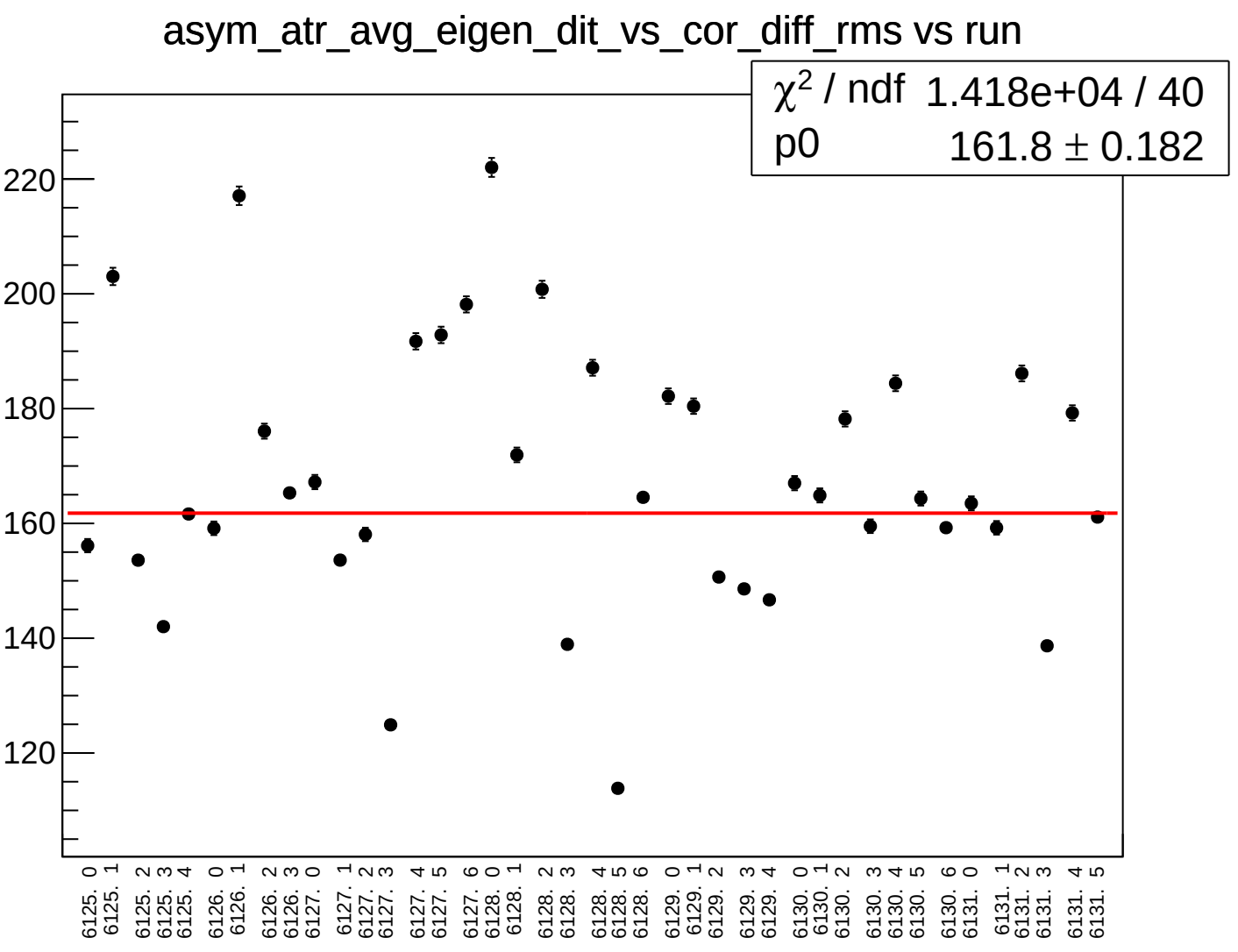

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 25.45 / 40
p0 −1.306e−05 ± 2.506e−05
0.4
0.2
0
−0.2
−0.4
−0.6
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 196.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

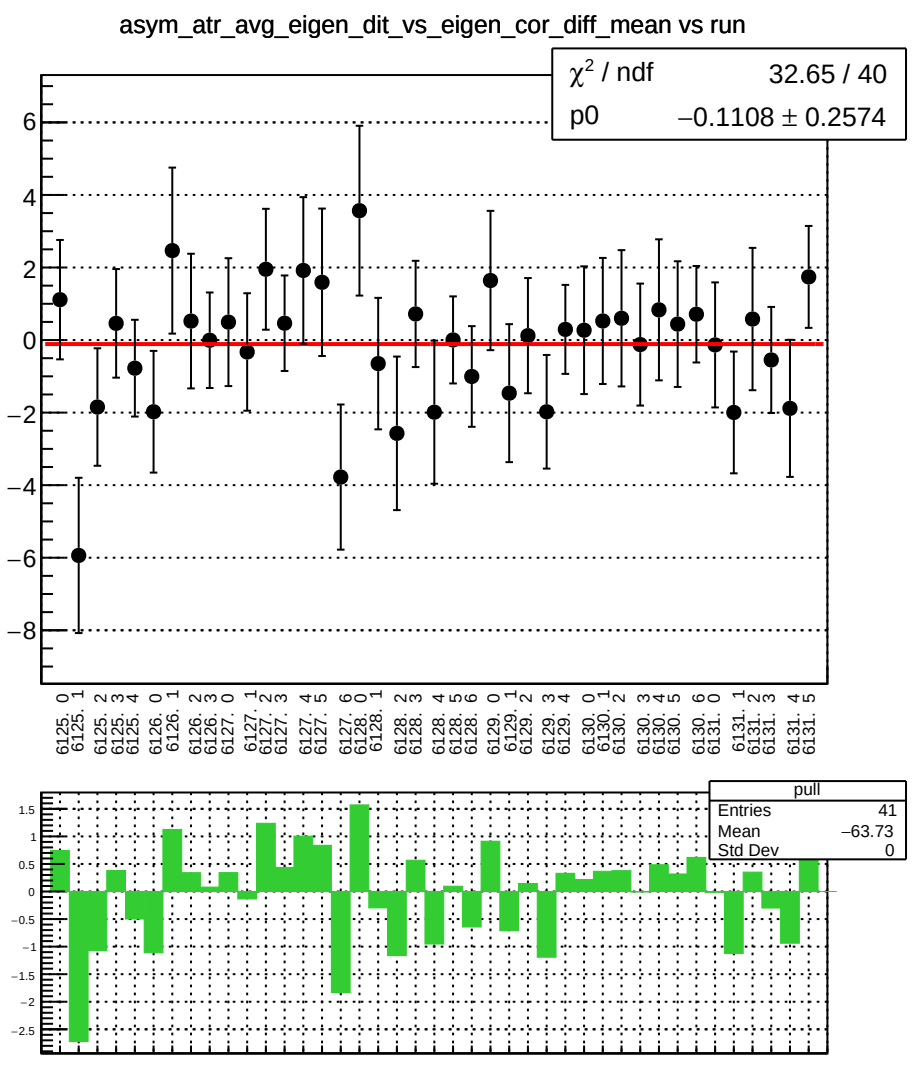

pull1D
Entries 41
Mean 0.007327
Std Dev 0.7878
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

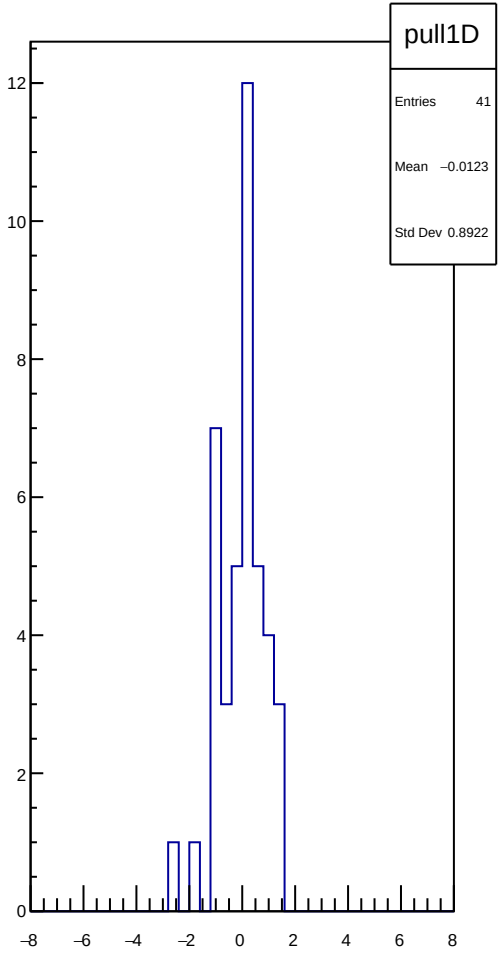

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1685 / 40
p0 0.01588 ± 1.772e–05
0.018
0.0175
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

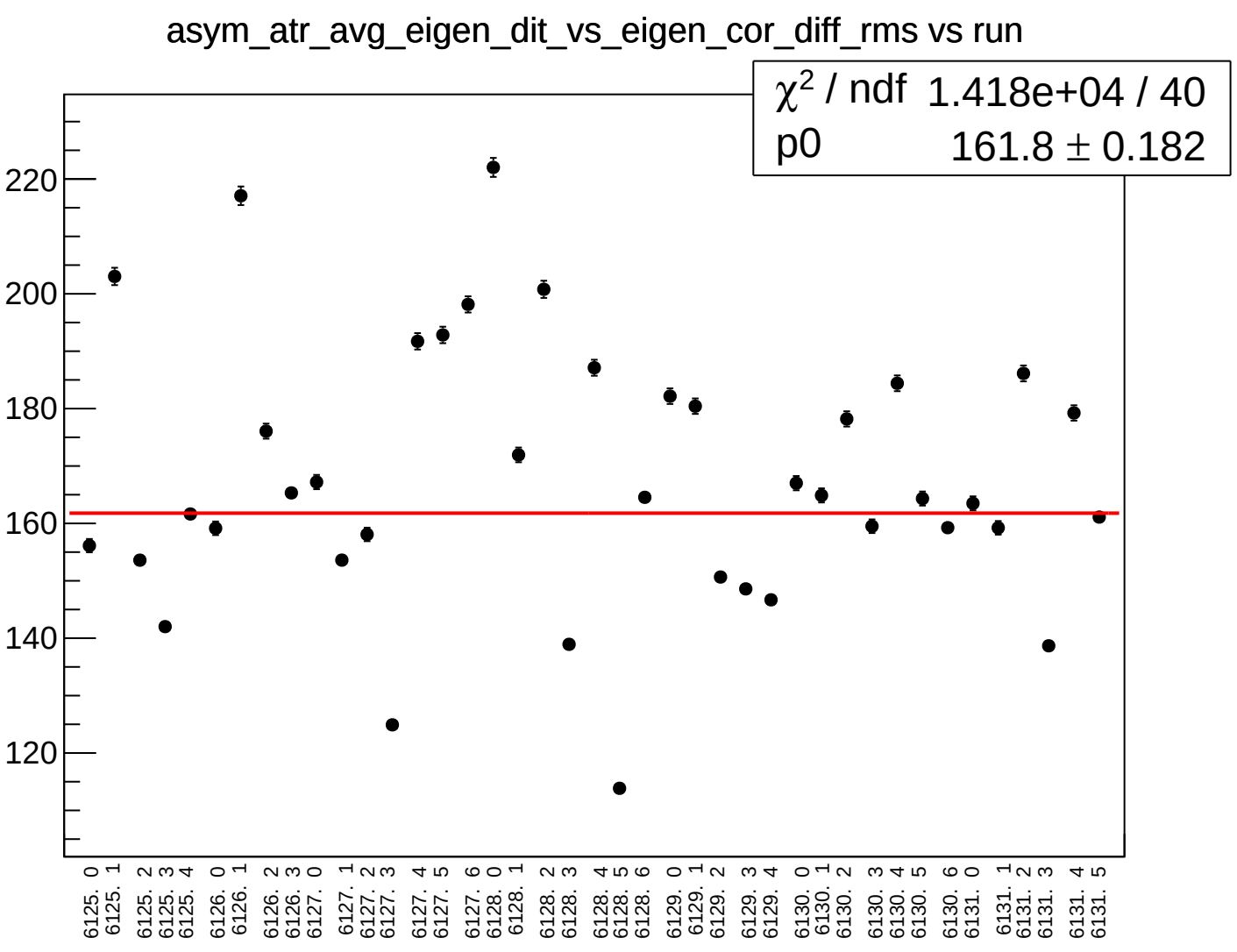

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 32.65 / 40
p0 −0.1108 ± 0.2574
pull
Entries 41
Mean −63.73
Std Dev 0

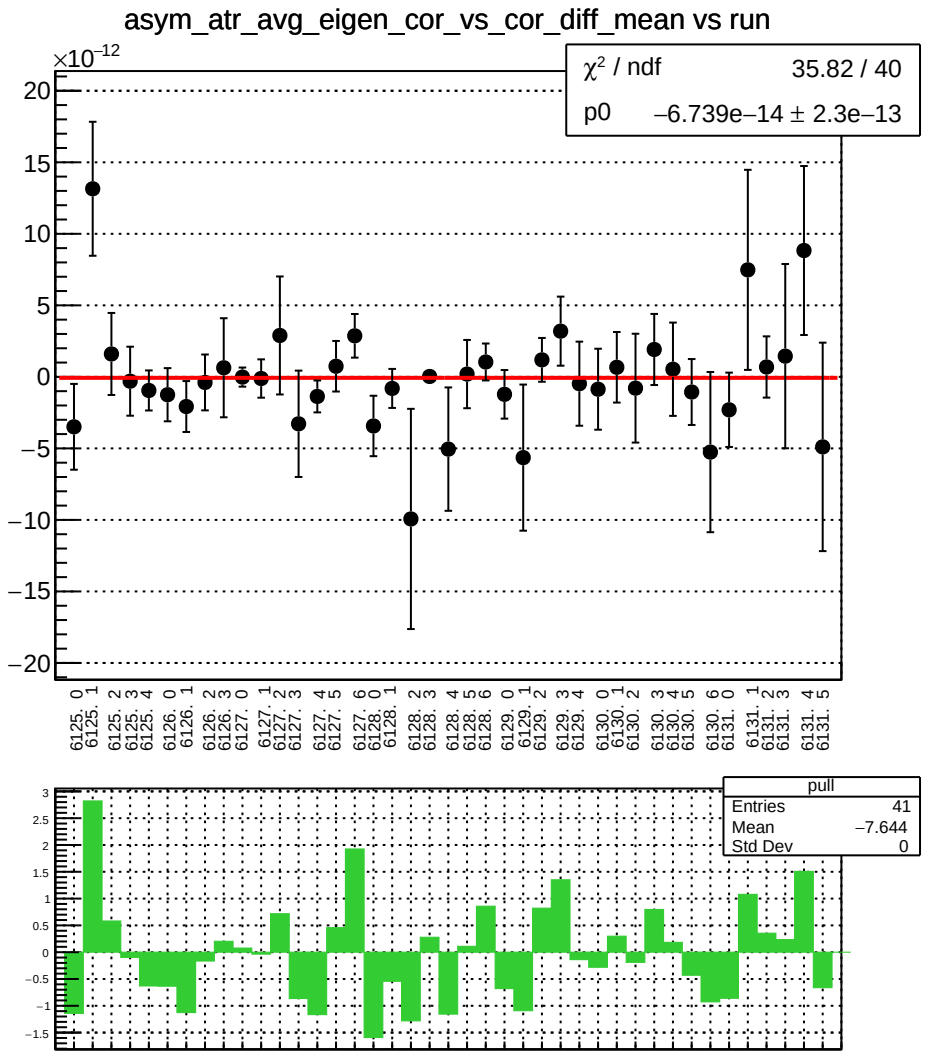

pull1D
Entries 41
Mean −0.0123
Std Dev 0.8922

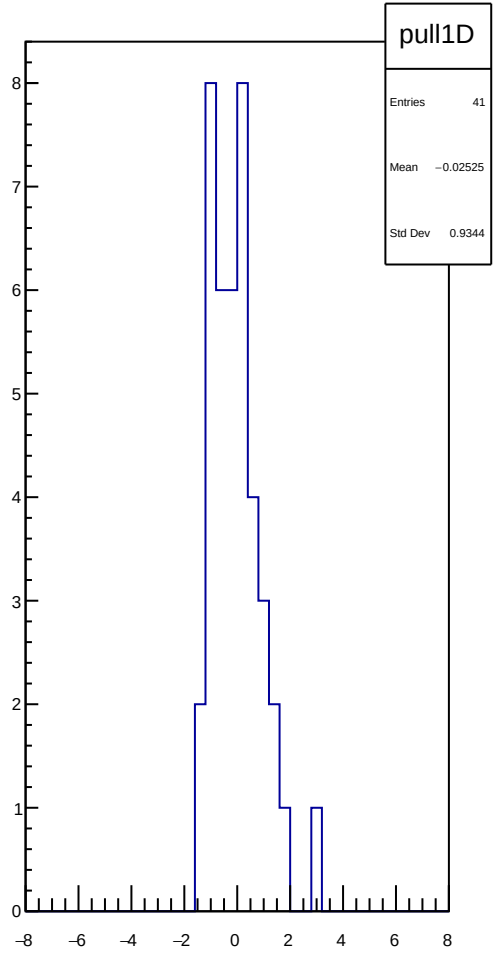

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.418e+04 / 40
p0 161.8 ± 0.182
220
200
180
160
140
120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

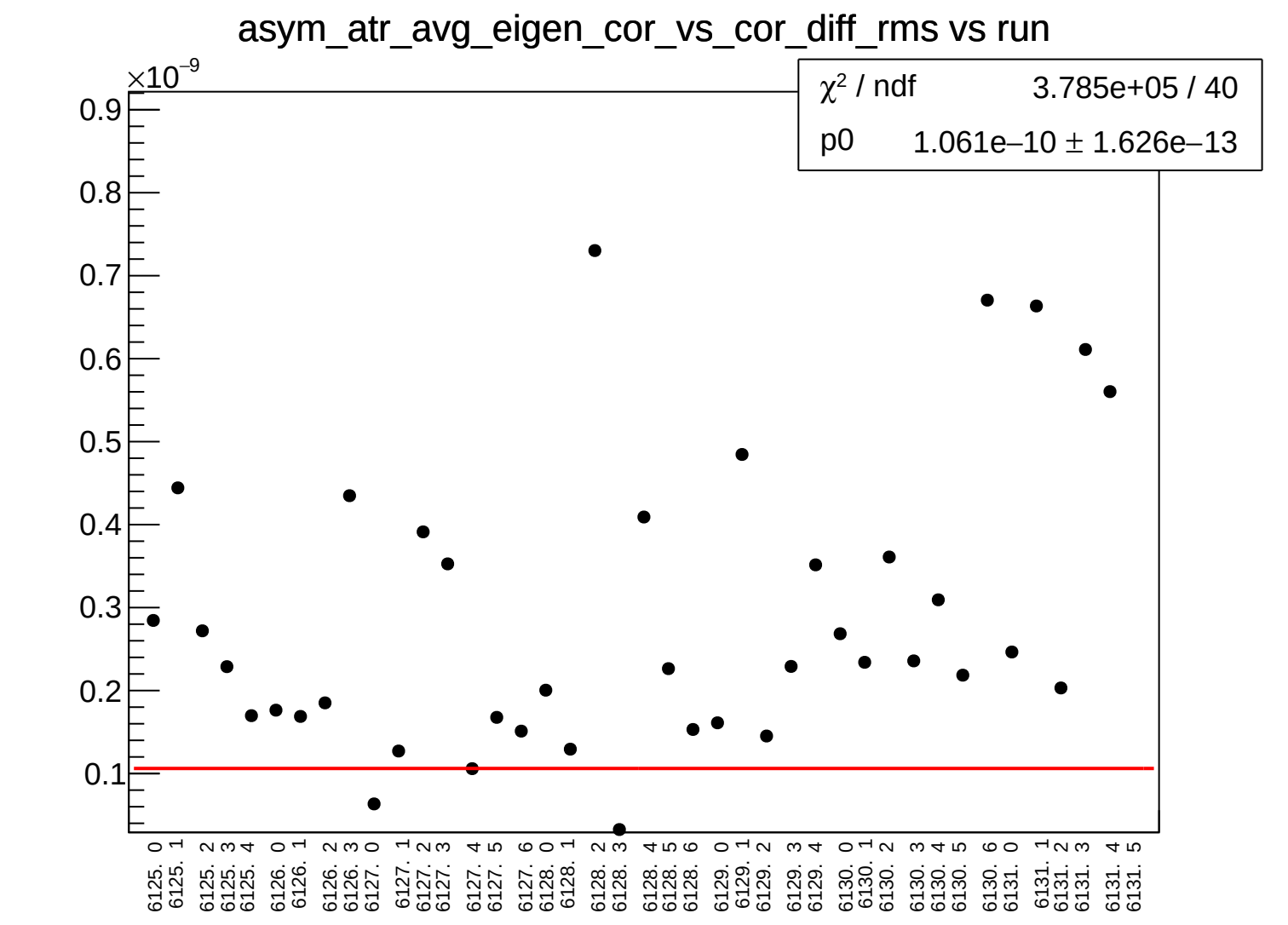

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.65 / 40
p0 −0.1108 ± 0.2574
pull
Entries 41
Mean −63.73
Std Dev 0


pull1D
Entries 41
Mean −0.0123
Std Dev 0.8922


asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.418e+04 / 40
p0 161.8 ± 0.182
220
200
180
160
140
120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.82 / 40
p0 −6.739e−14 ± 2.3e−13
pull
Entries 41
Mean −7.644
Std Dev 0


pull1D
Entries 41
Mean −0.02525
Std Dev 0.9344


asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.785e+05 / 40
p0 1.061e−10 ± 1.626e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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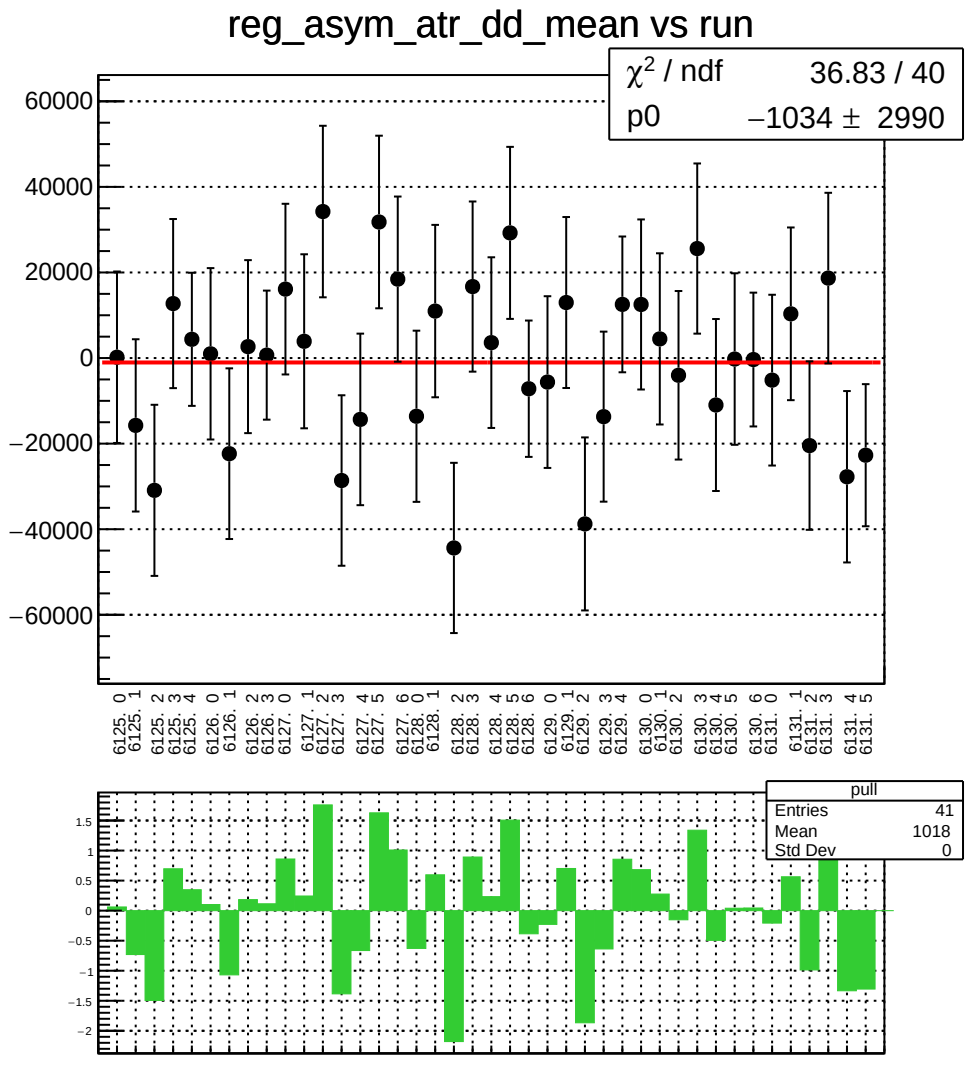
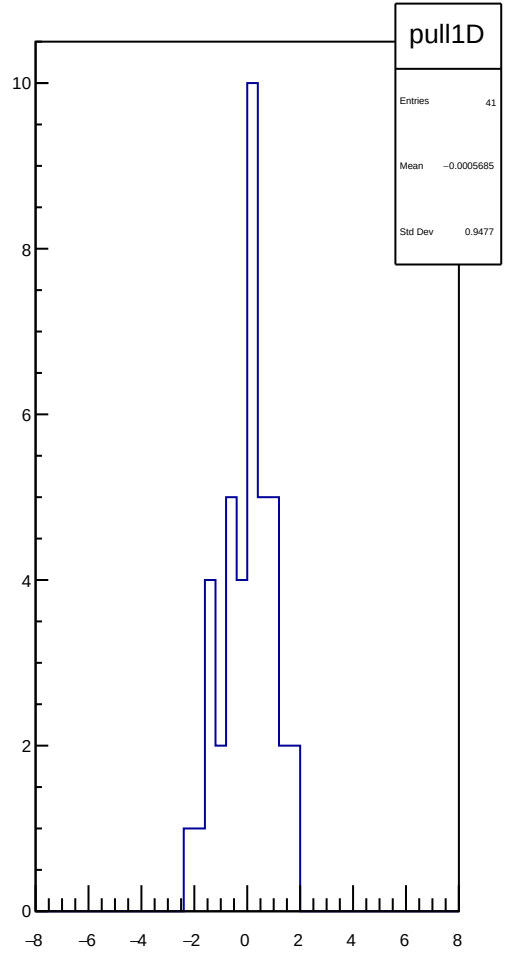
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


reg_asym_atr_dd_mean vs run
χ² / ndf 36.83 / 40
p0 −1034 ± 2990
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1018
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.0005685
Std Dev 0.9477
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8
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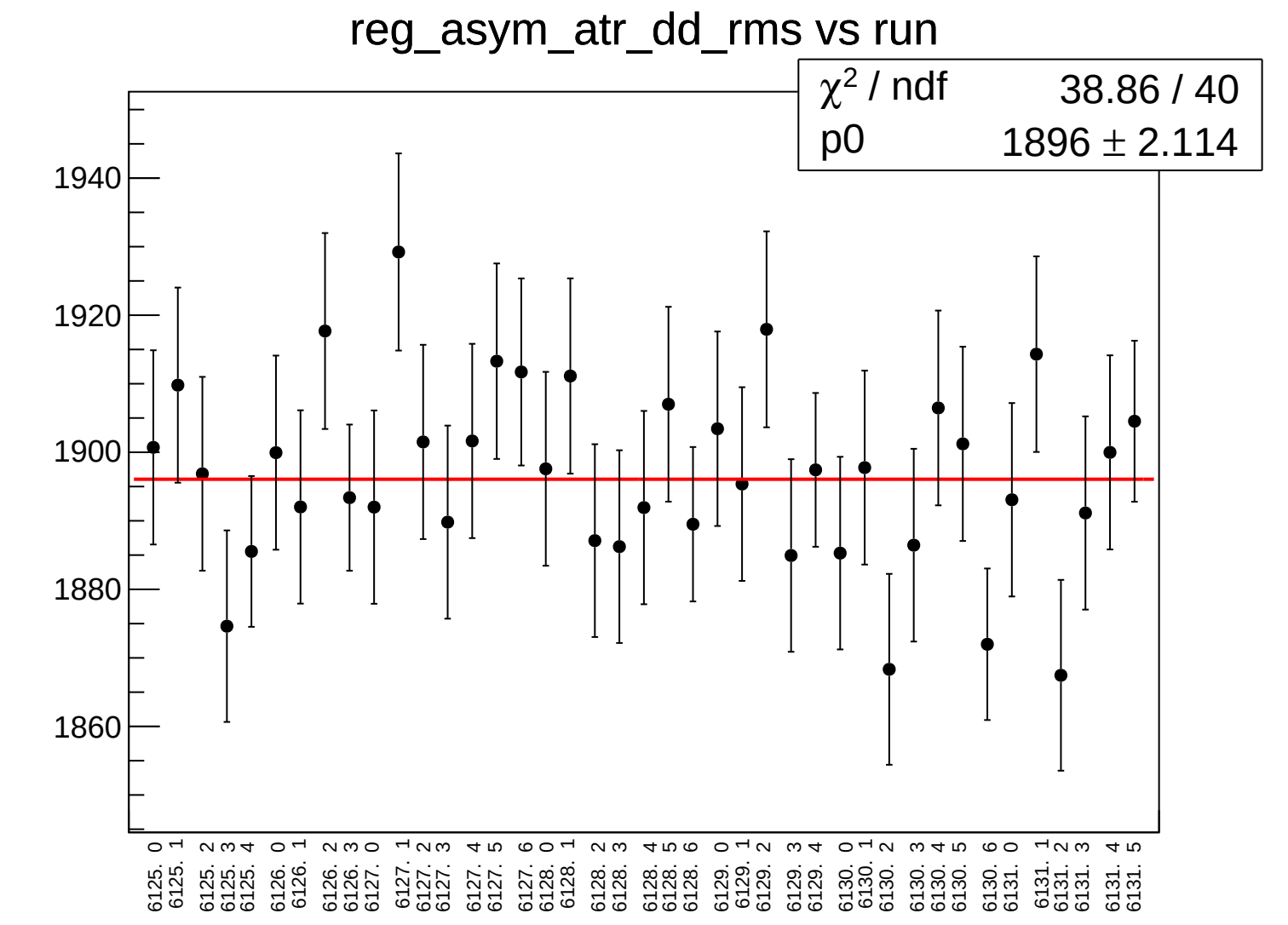
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr_dd_rms vs run
χ² / ndf 38.86 / 40
p0 1896 ± 2.114
1940
1920
1900
1880
1860
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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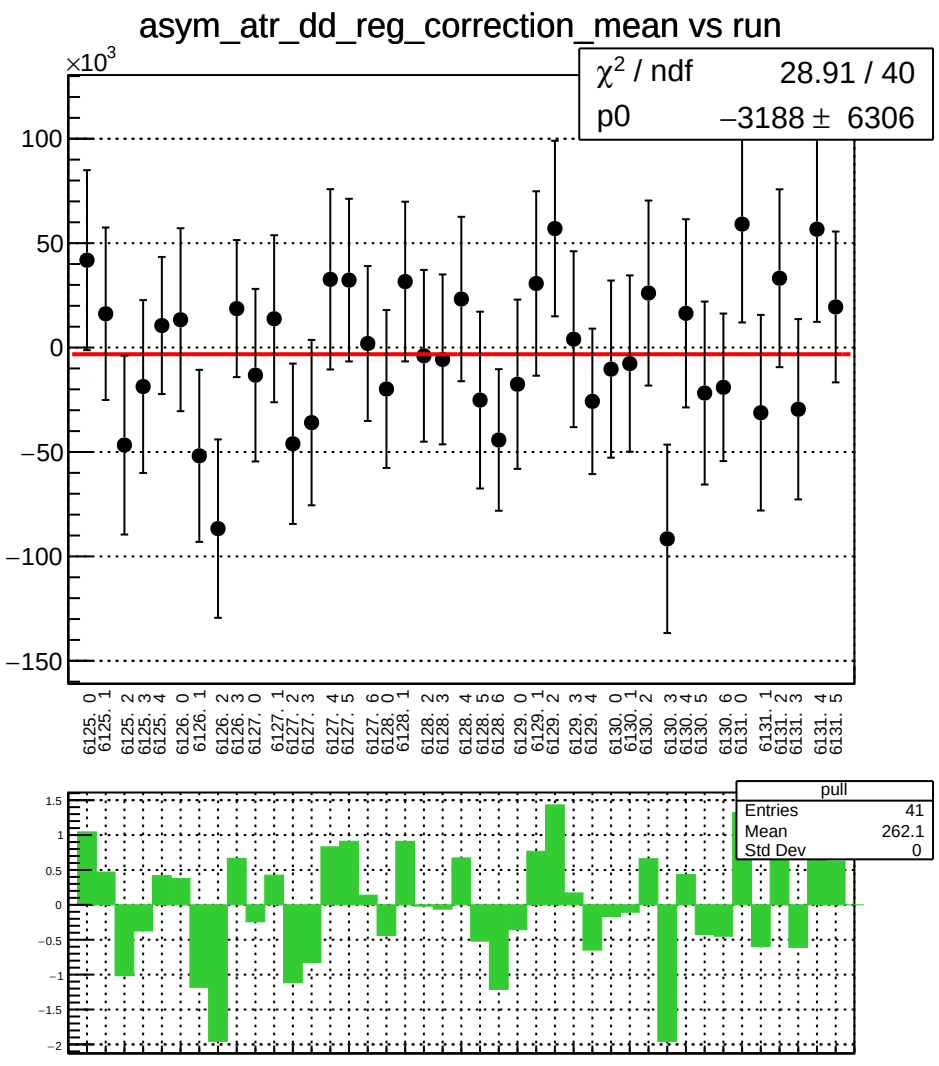
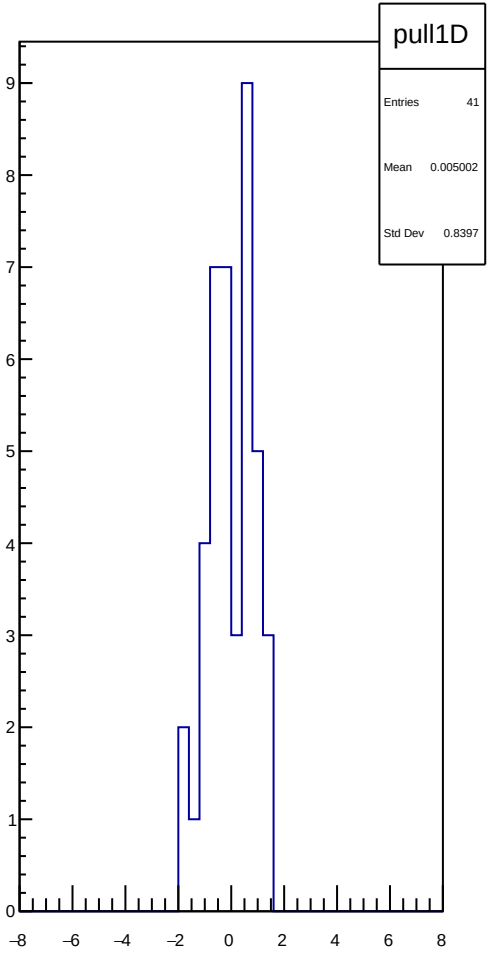
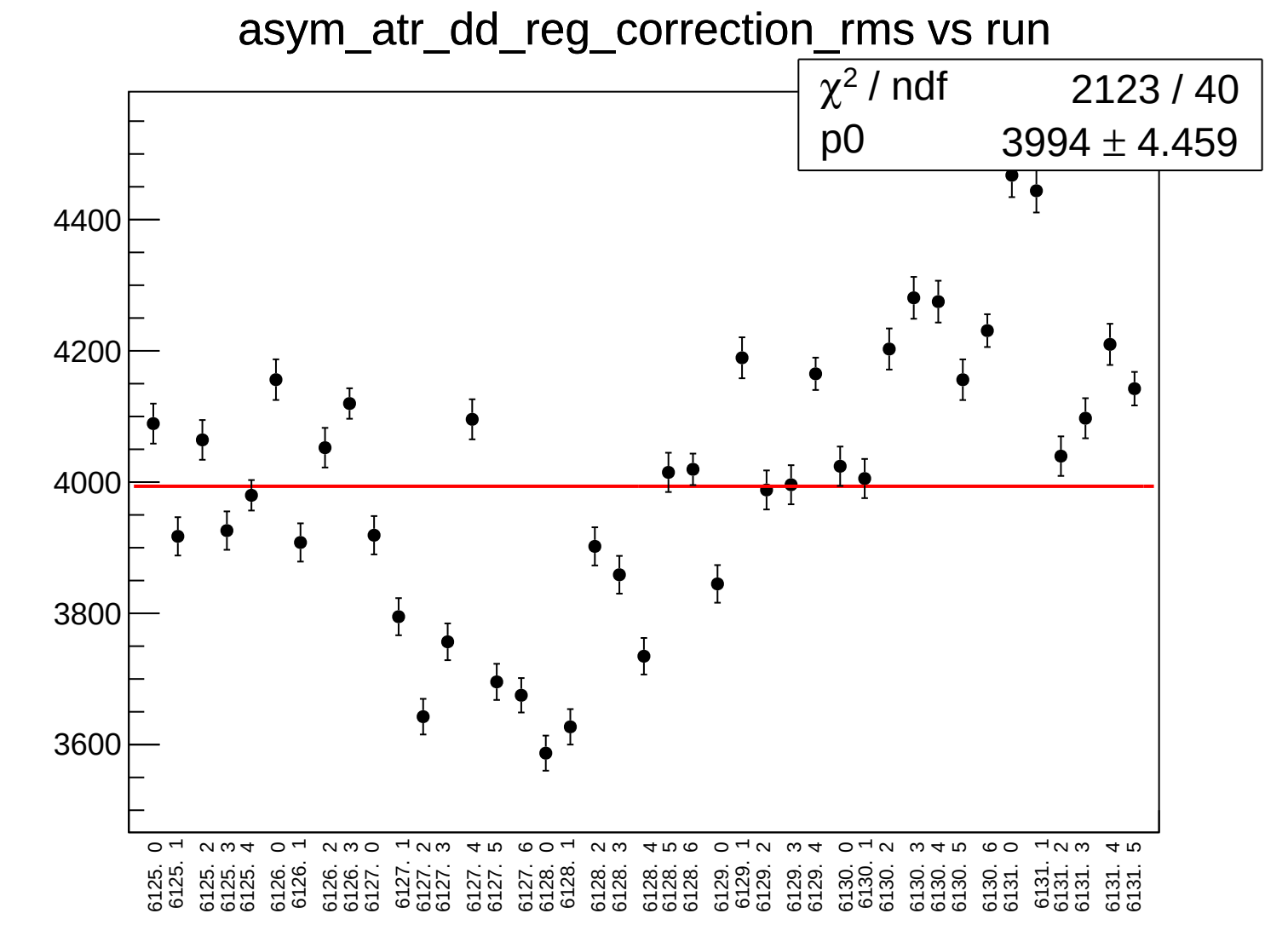
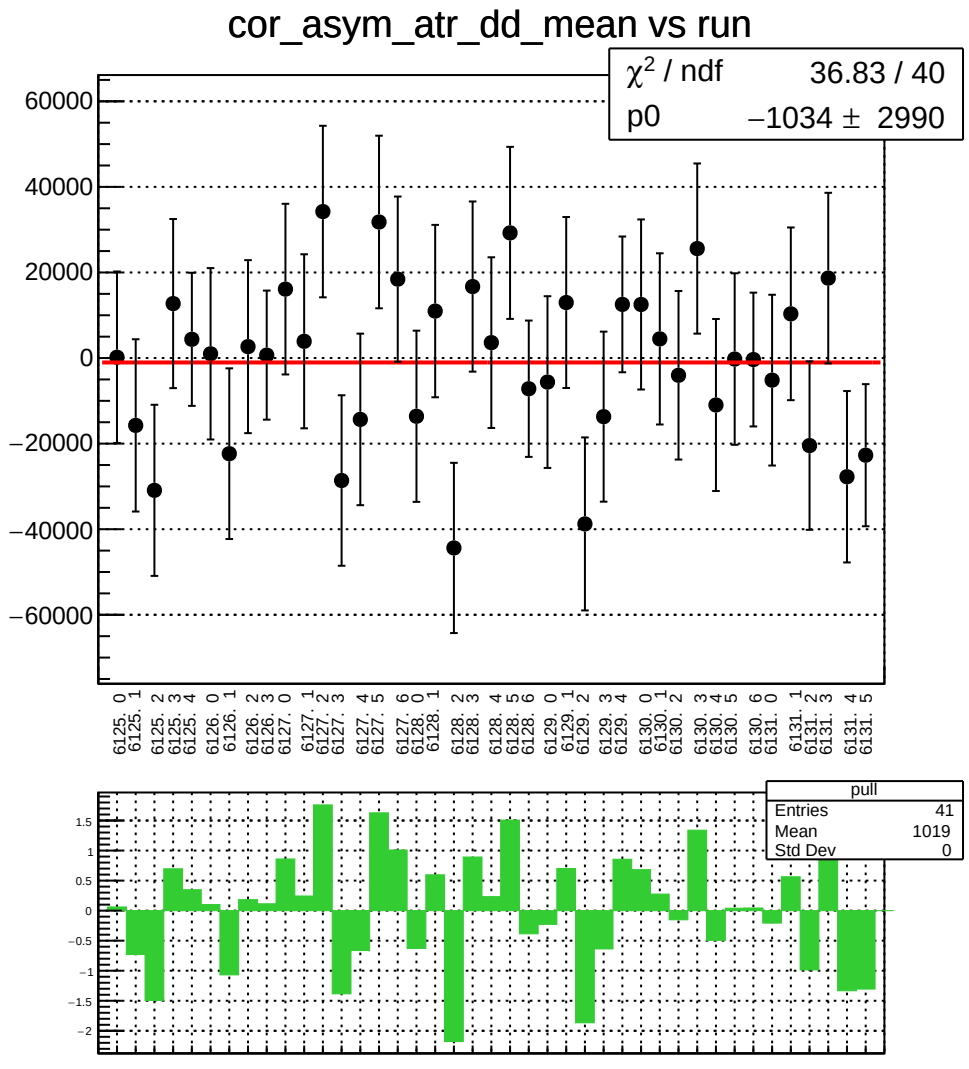
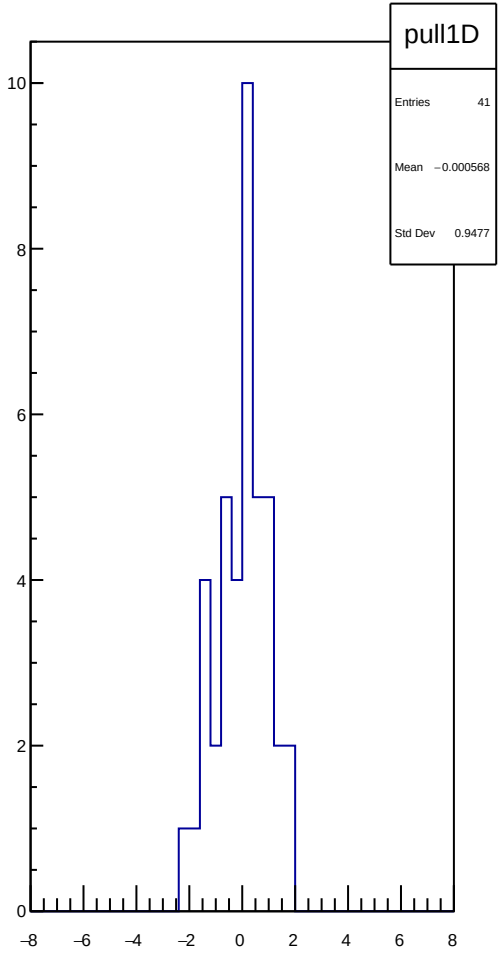
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

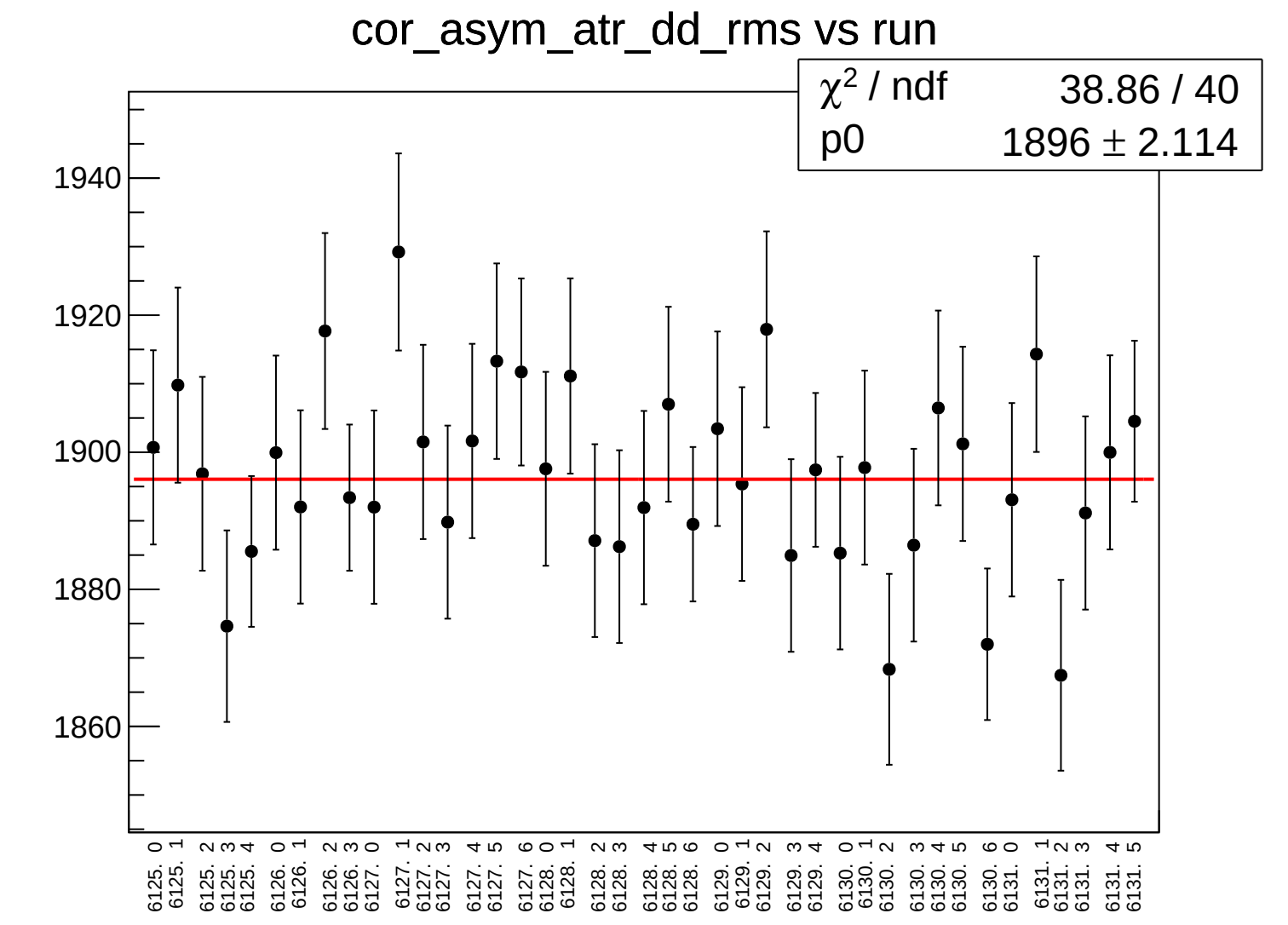

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 28.91 / 40
p0 −3188 ± 6306
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 262.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.005002
Std Dev 0.8397
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 2123 / 40
p0 3994 ± 4.459
4400
4200
4000
3800
3600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


cor_asym_atr_dd_mean vs run
χ² / ndf 36.83 / 40
p0 −1034 ± 2990
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1019
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.000568
Std Dev 0.9477
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr_dd_rms vs run
χ² / ndf 38.86 / 40
p0 1896 ± 2.114
1940
1920
1900
1880
1860
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
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6127. 6
6128. 0
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6128. 2
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6128. 6
6129. 0
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6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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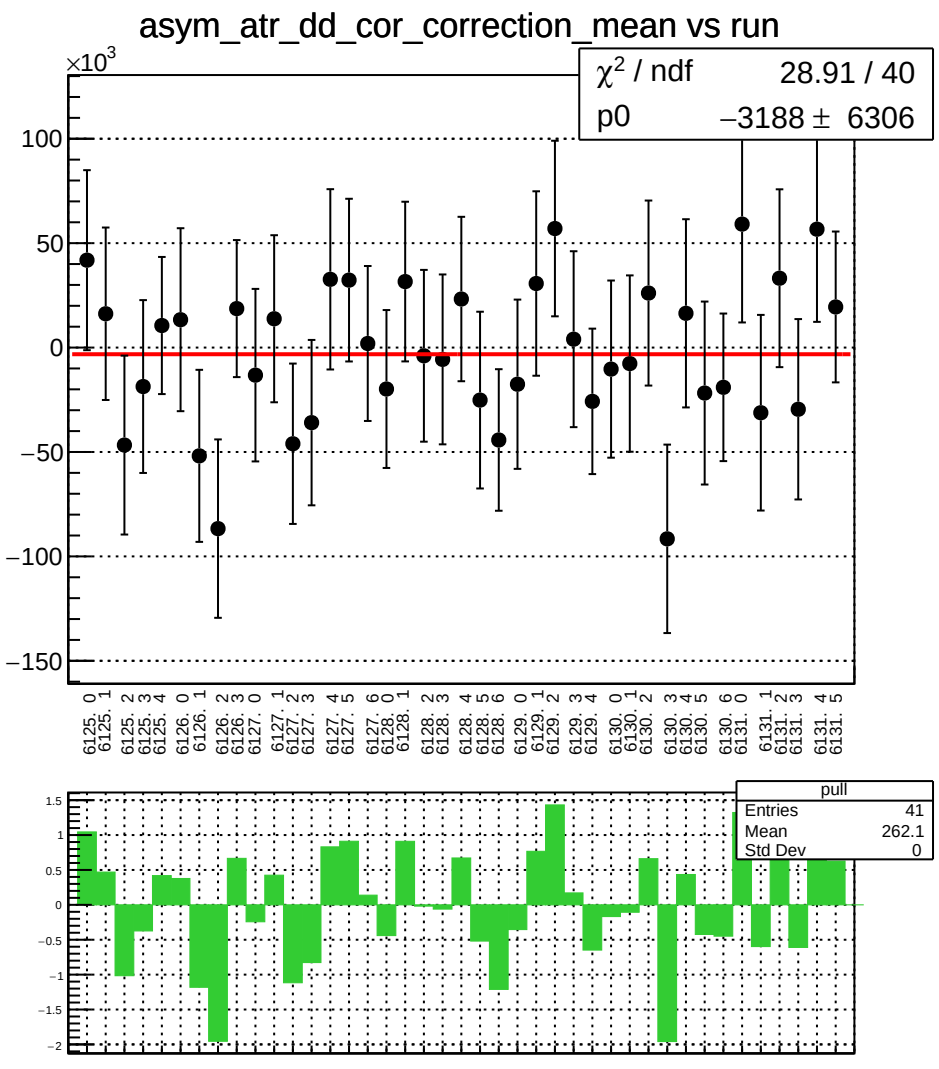
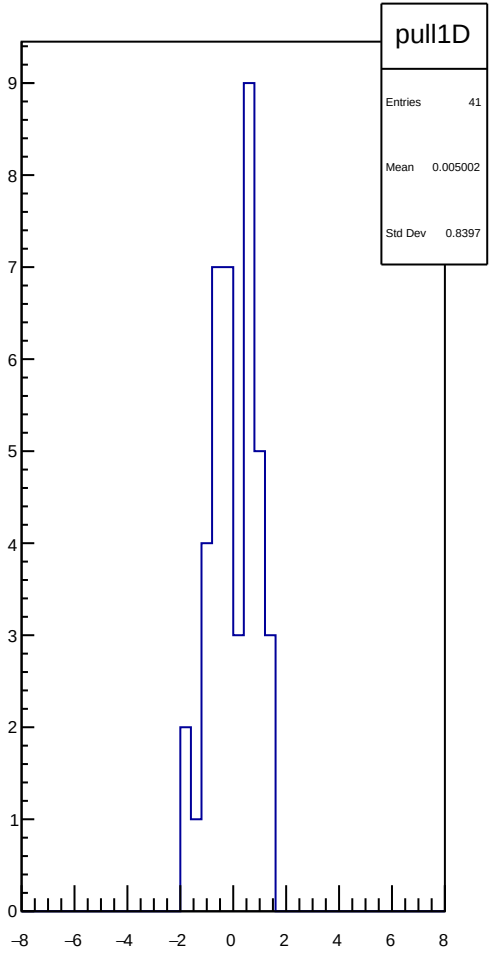
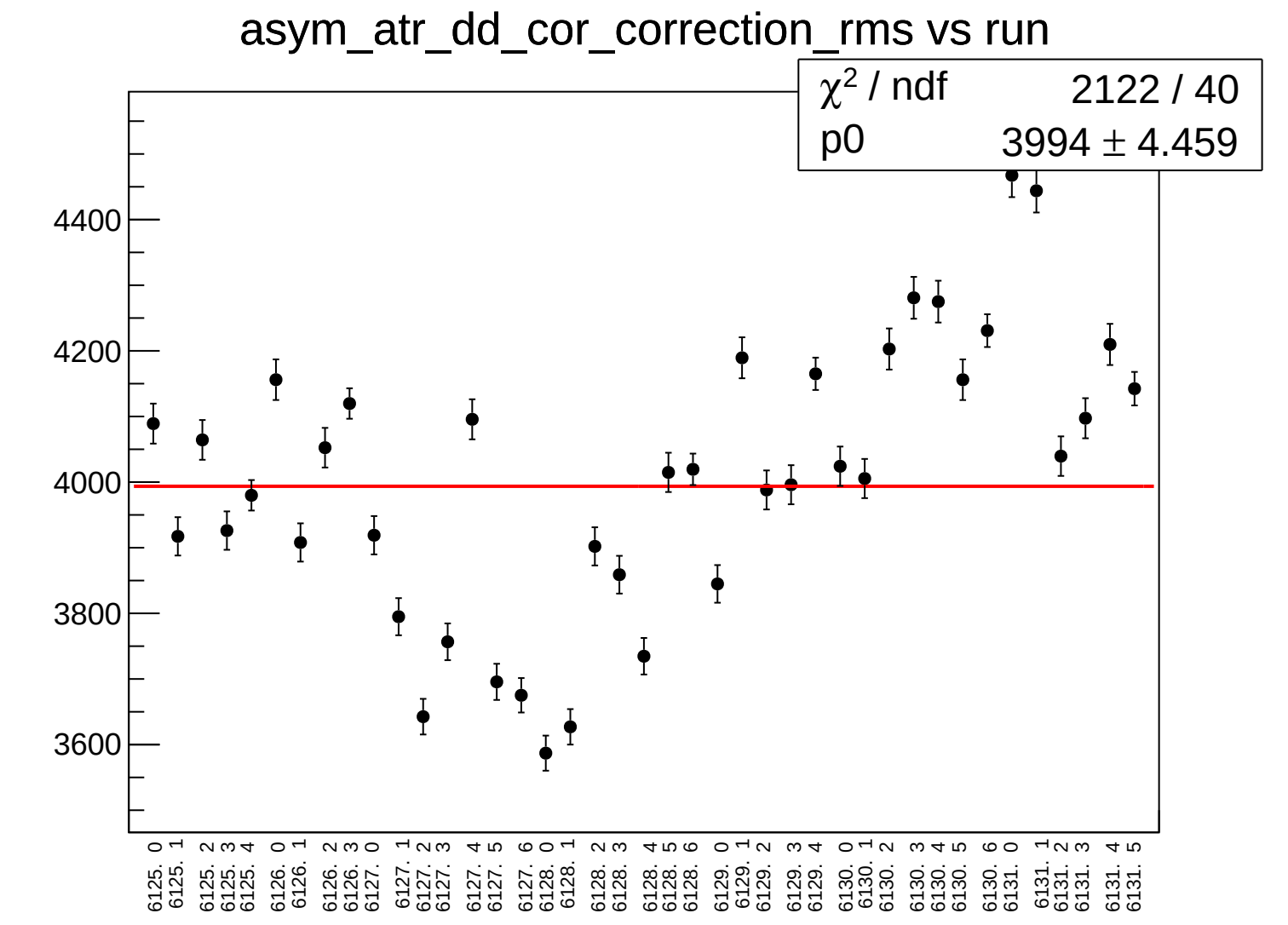
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 28.91 / 40
p0 −3188 ± 6306
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 262.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.005002
Std Dev 0.8397
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_dd_cor_correction_rms vs run
χ² / ndf 2122 / 40
p0 3994 ± 4.459
4400
4200
4000
3800
3600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
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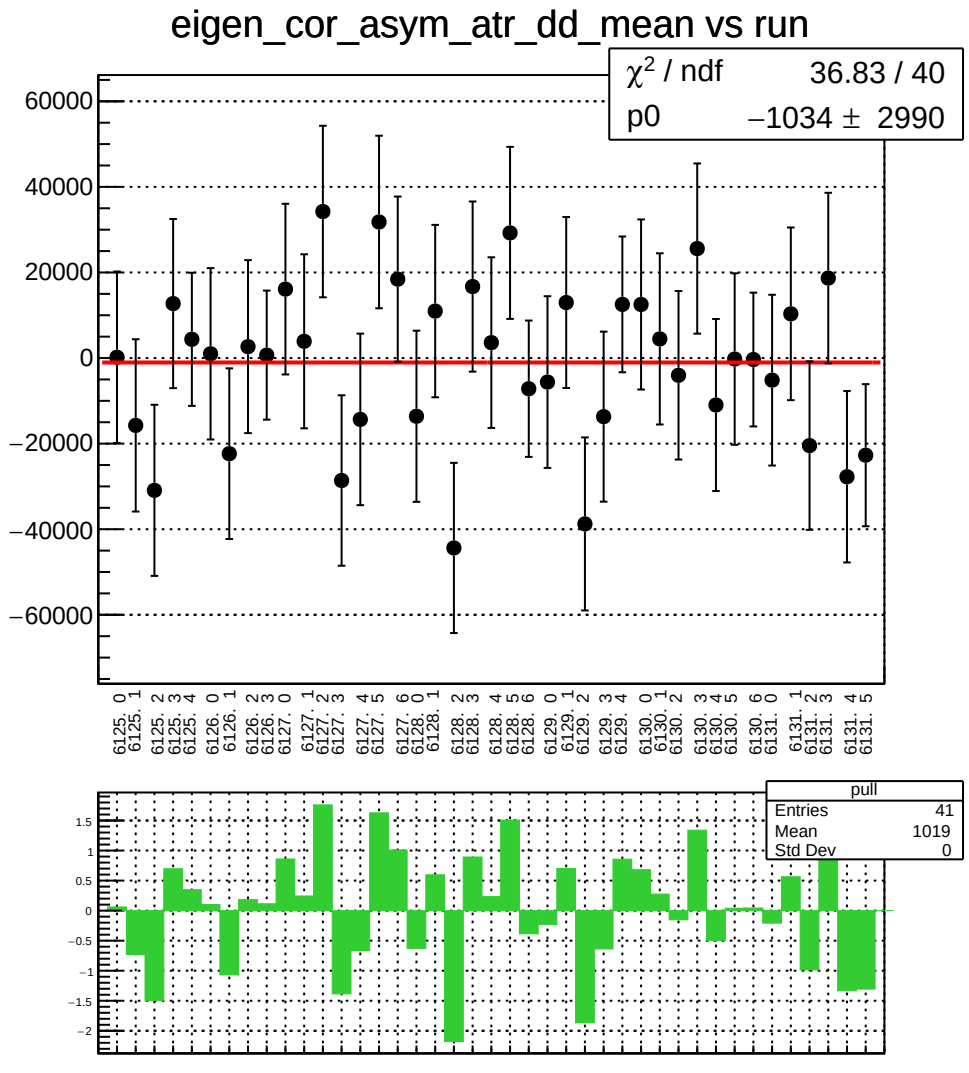
6131. 4
6131. 5


eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 36.83 / 40
p0 −1034 ± 2990
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
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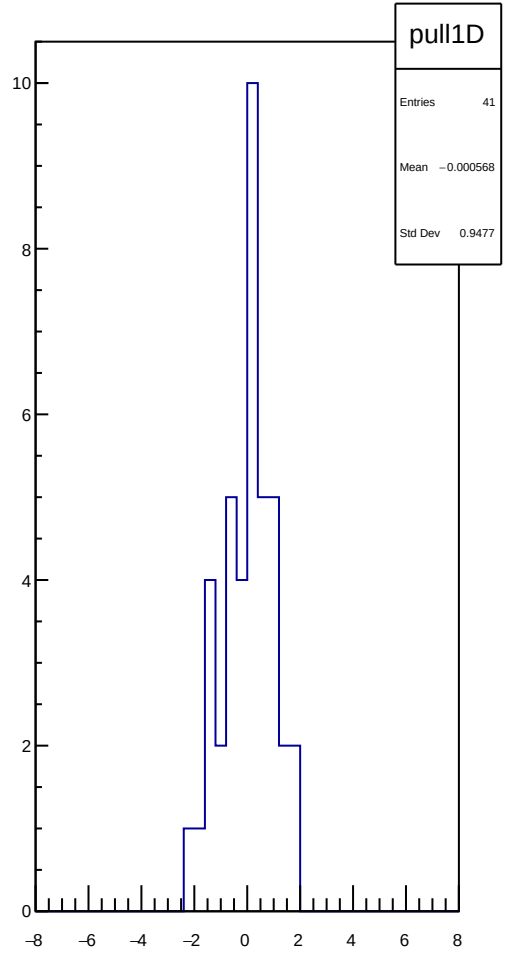
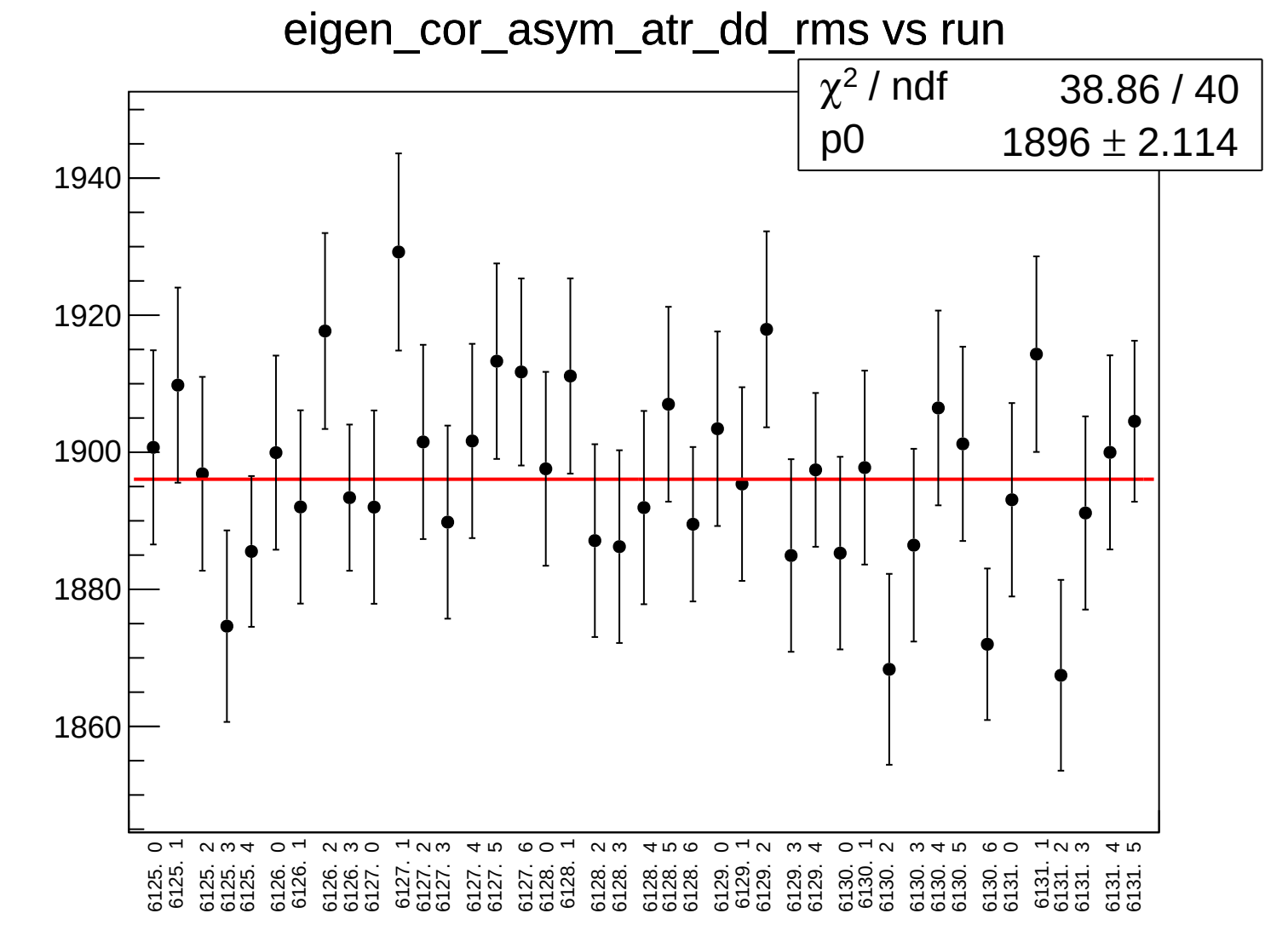
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1019
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.000568
Std Dev 0.9477
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 38.86 / 40
p0 1896 ± 2.114
1940
1920
1900
1880
1860
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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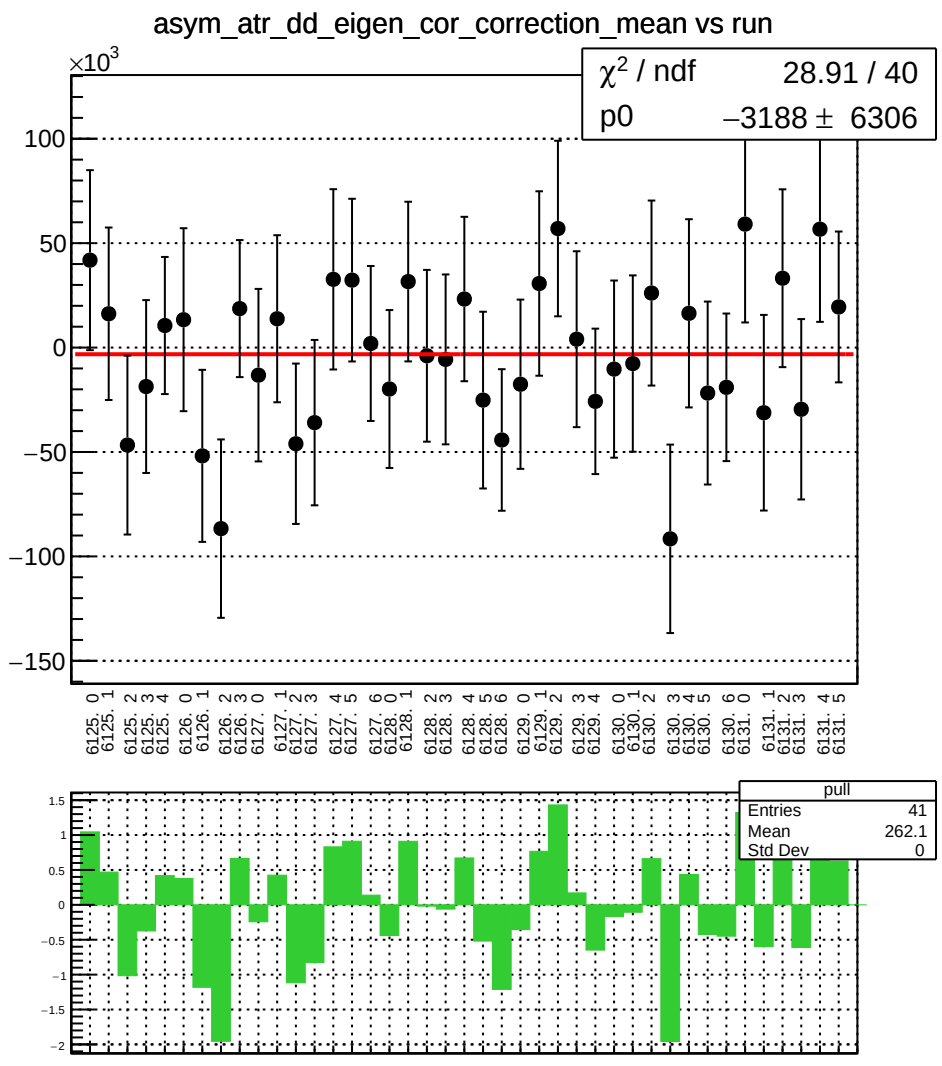
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 28.91 / 40
p0 −3188 ± 6306
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6128. 0
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6128. 6
6129. 0
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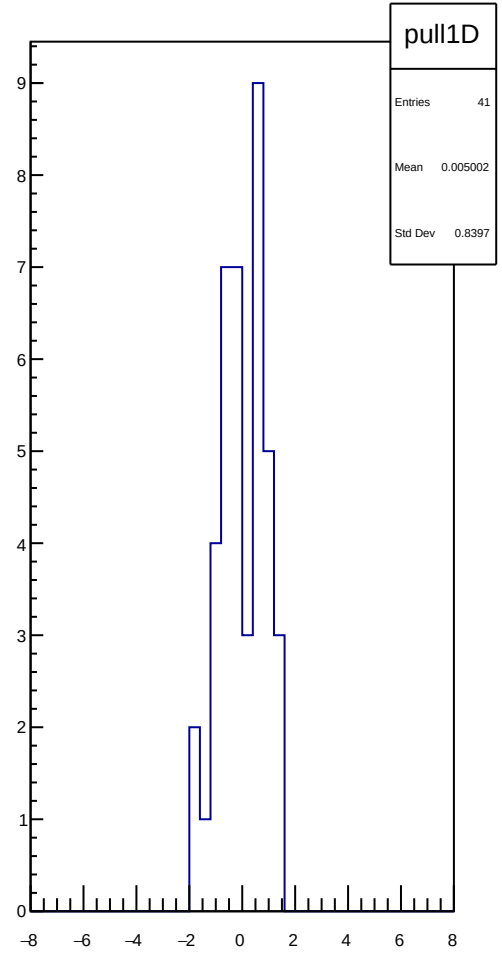
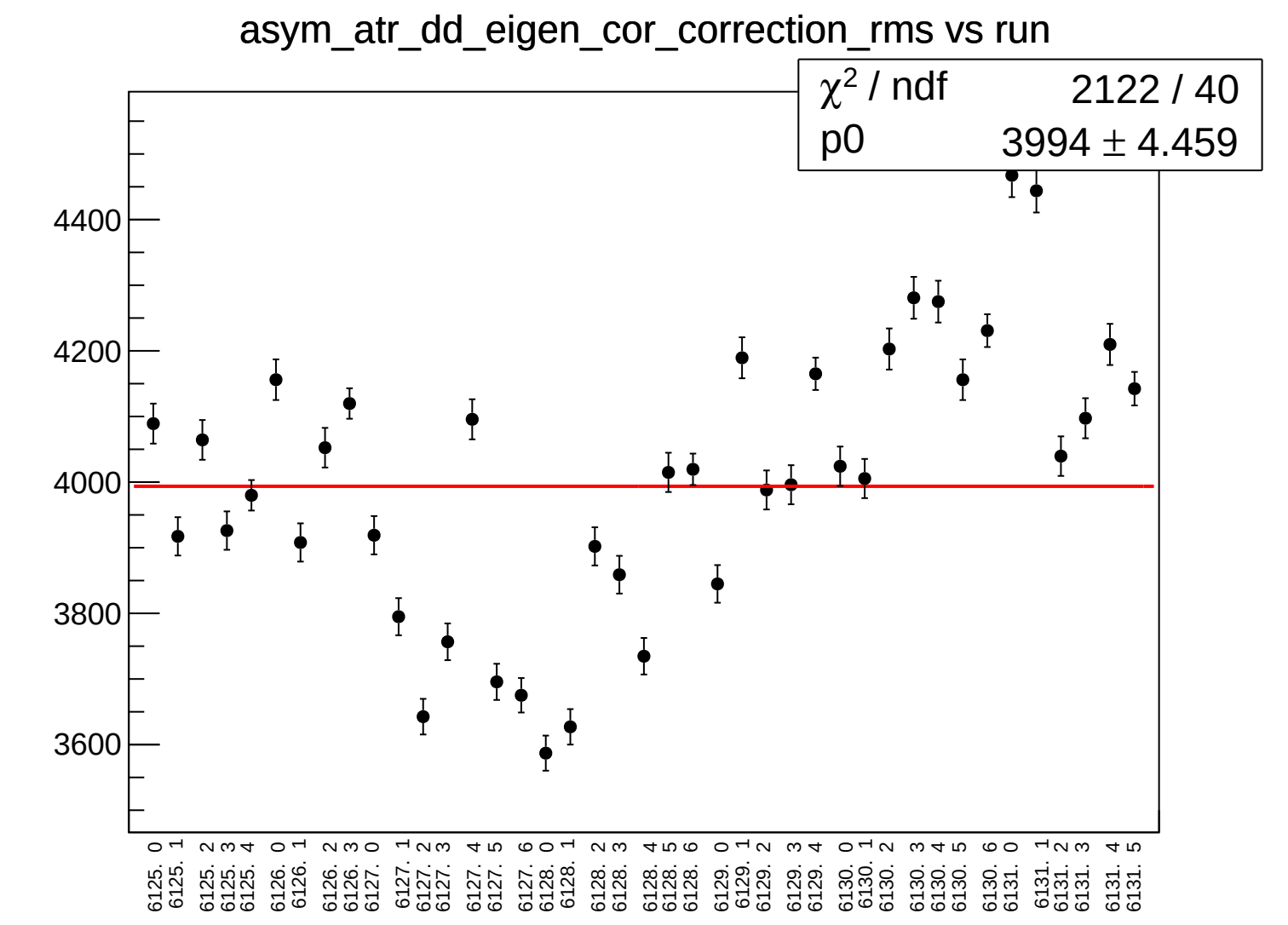
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 262.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.005002
Std Dev 0.8397
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 2122 / 40
p0 3994 ± 4.459
4400
4200
4000
3800
3600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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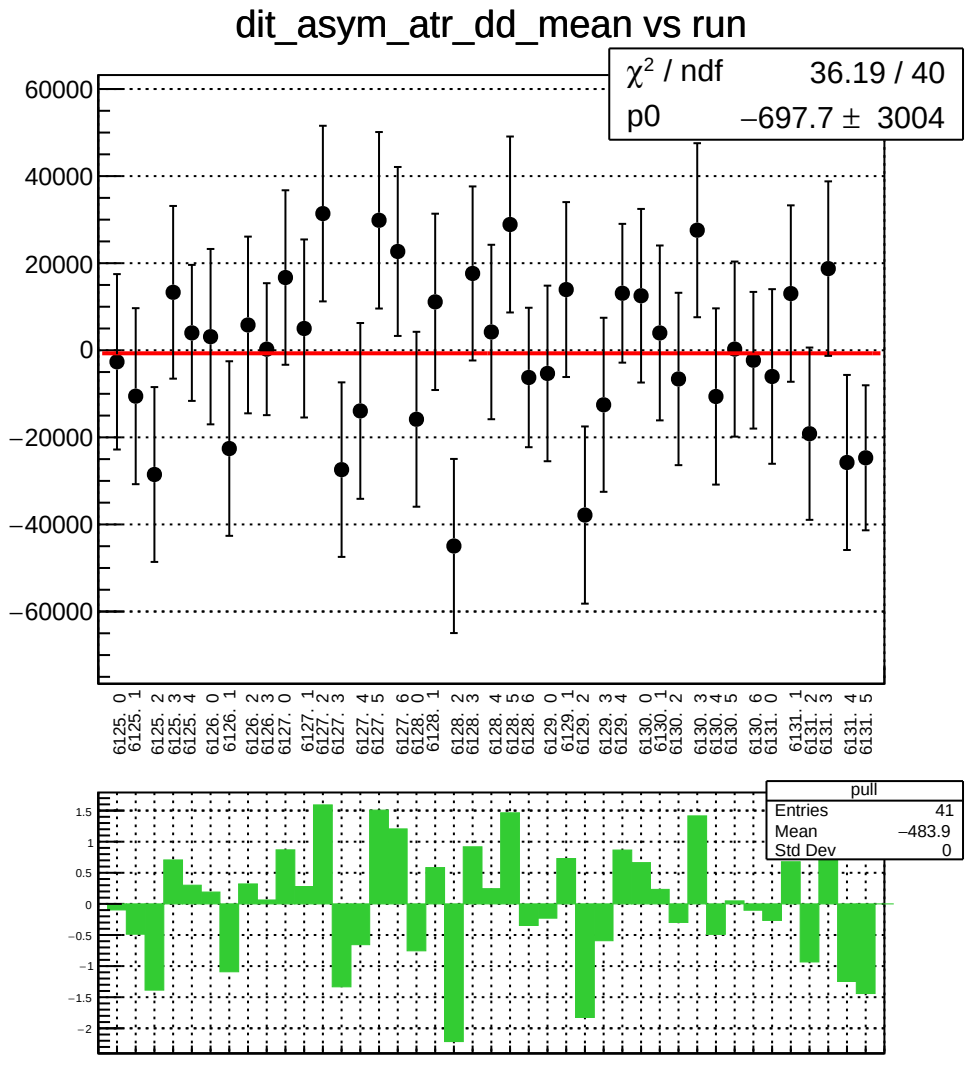
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


dit_asym_atr_dd_mean vs run
χ² / ndf 36.19 / 40
p0 −697.7 ± 3004
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
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6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
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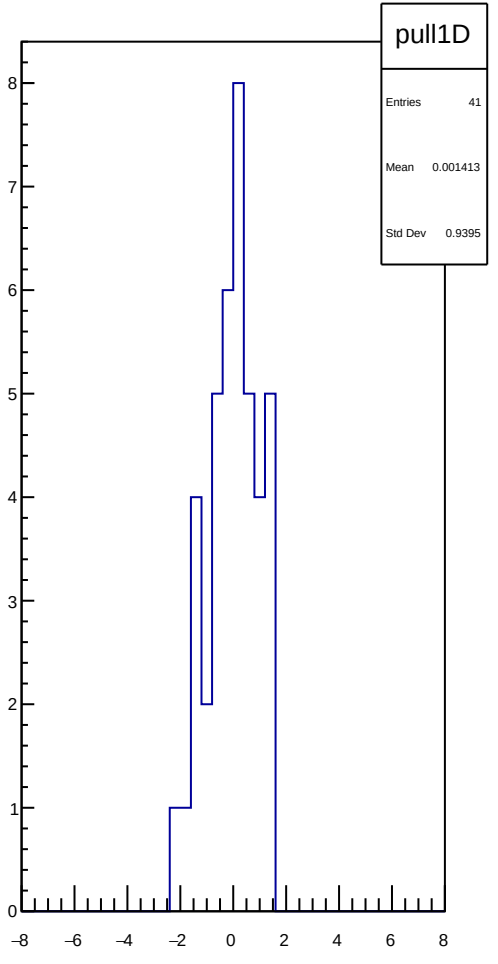
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −483.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.001413
Std Dev 0.9395
8
7
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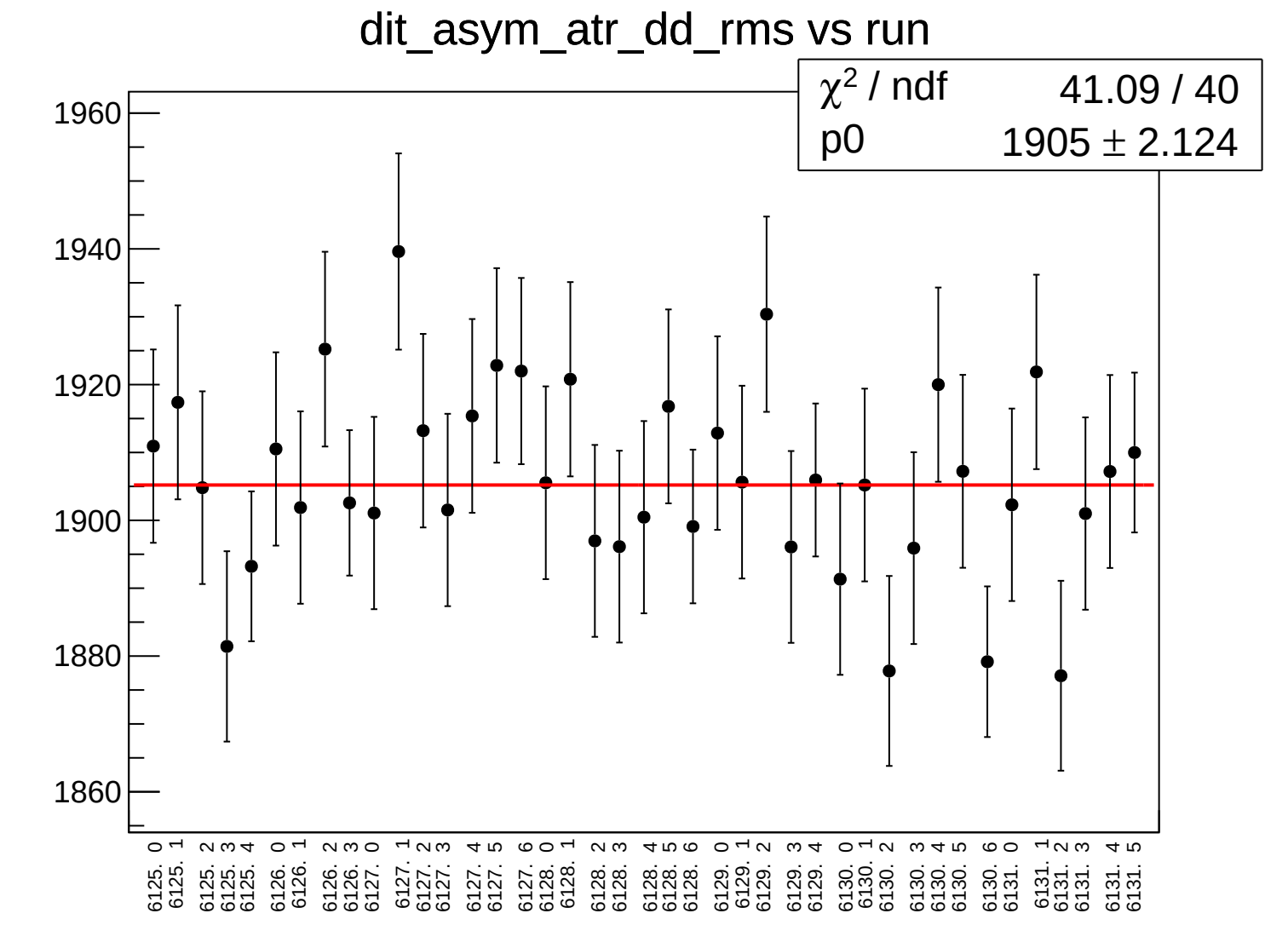
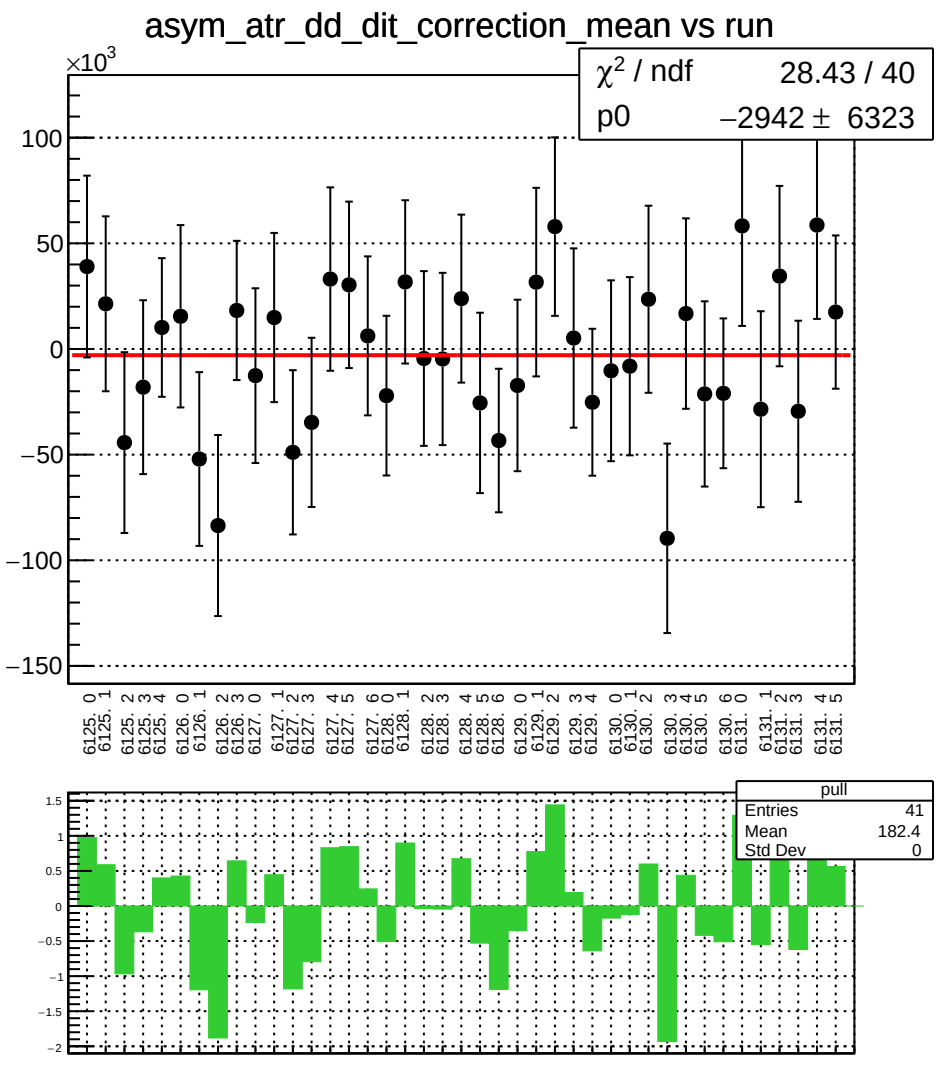
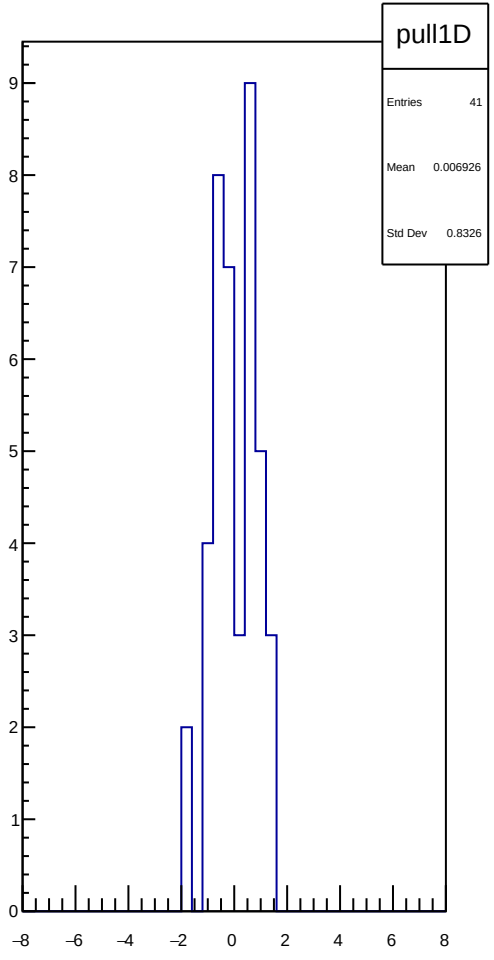
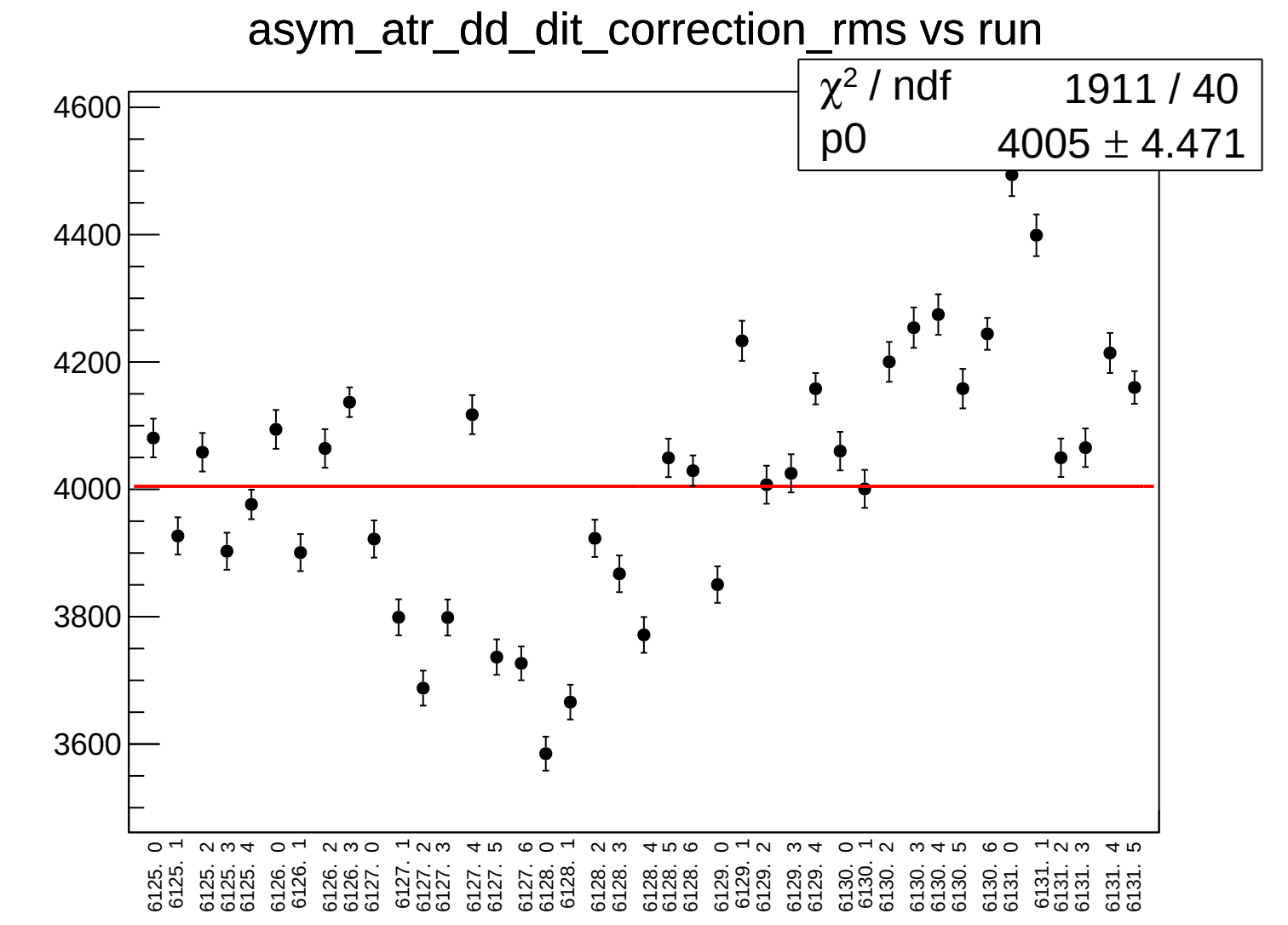
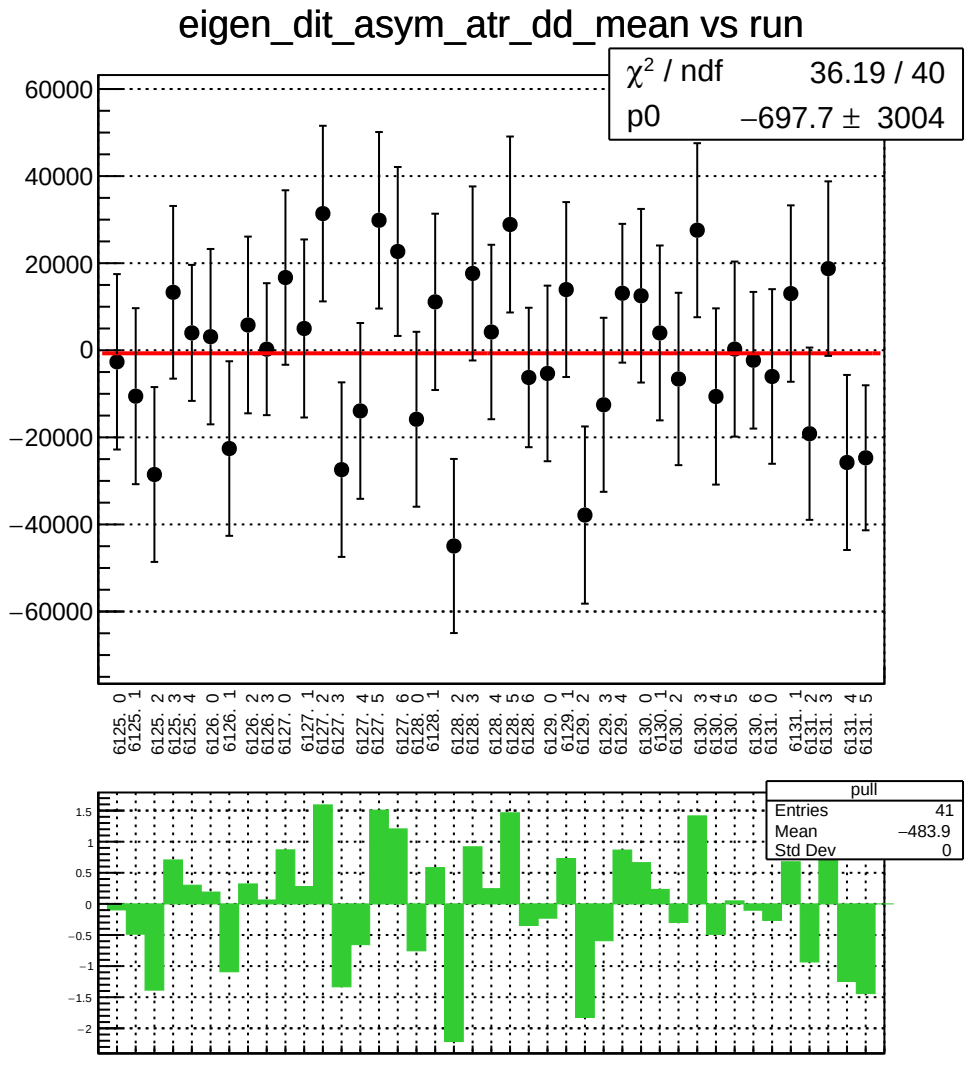
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

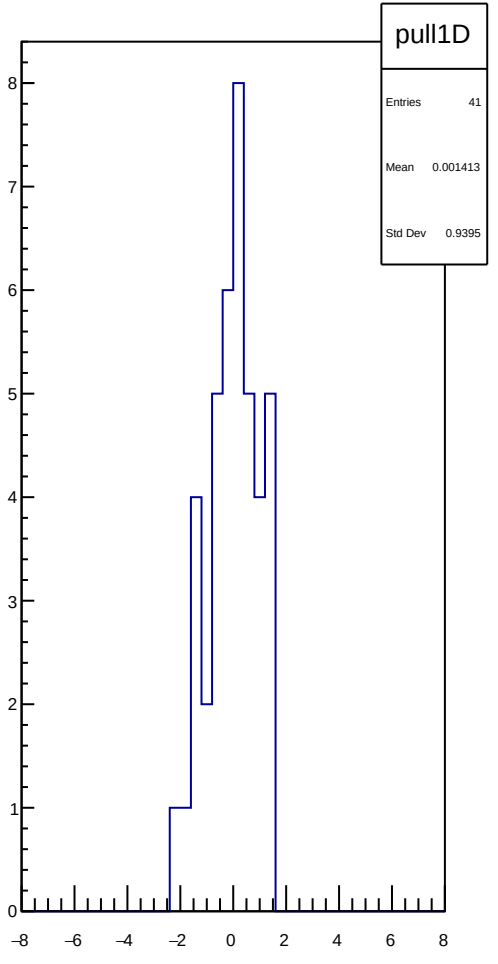

dit_asym_atr_dd_rms vs run
χ² / ndf 41.09 / 40
p0 1905 ± 2.124
1960
1940
1920
1900
1880
1860
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

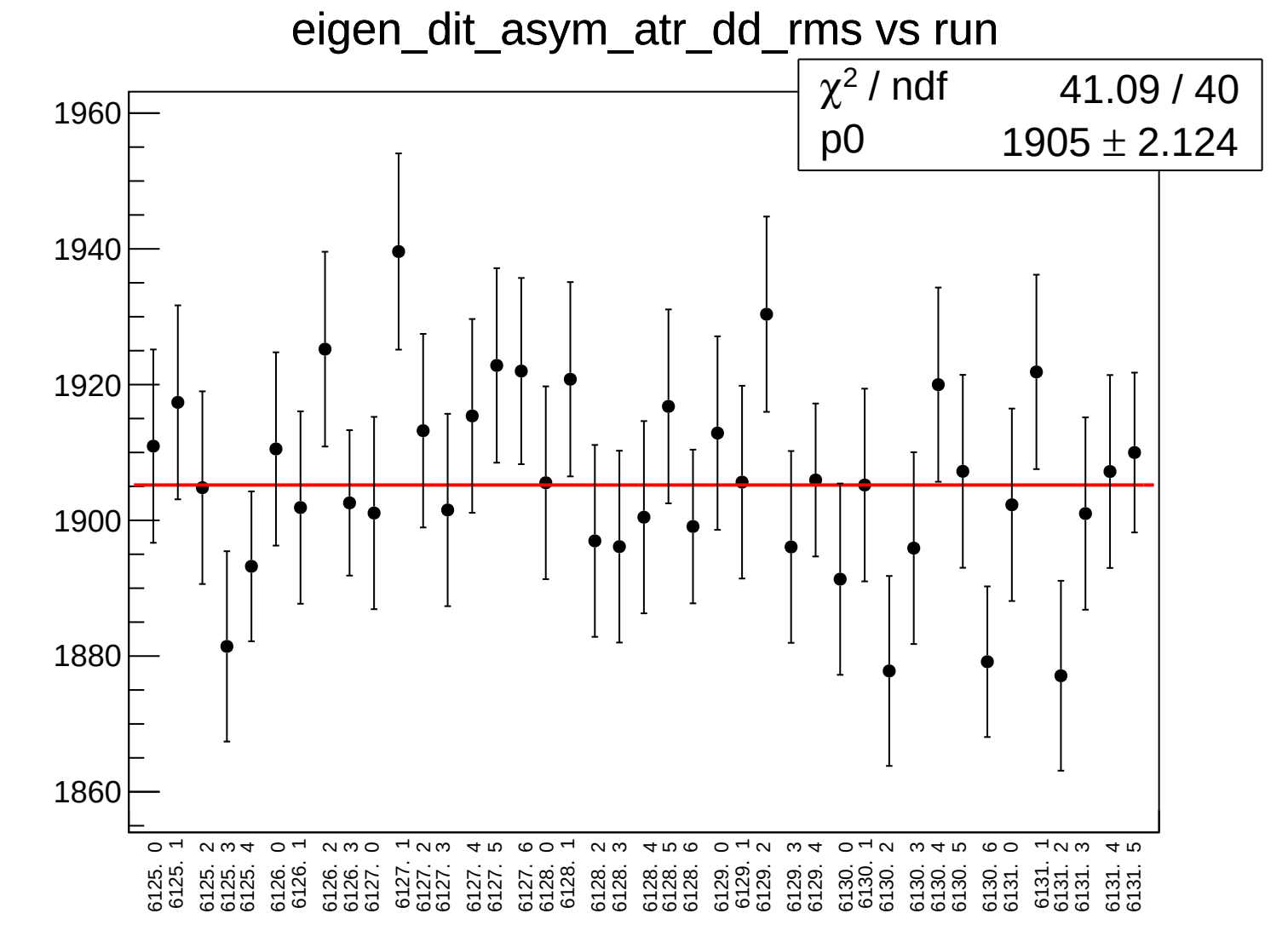

asym_atr_dd_dit_correction_mean vs run
χ² / ndf 28.43 / 40
p0 −2942 ± 6323
×10³
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 182.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

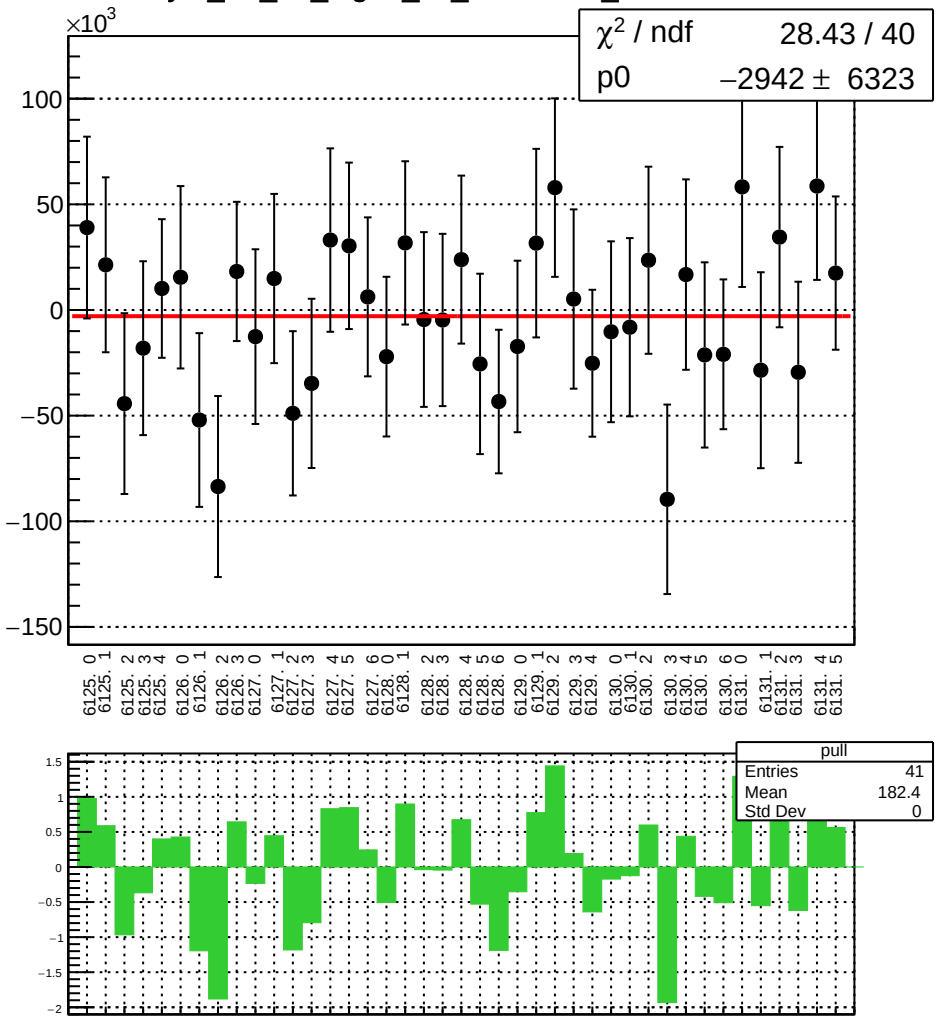

pull1D
Entries 41
Mean 0.006926
Std Dev 0.8326
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

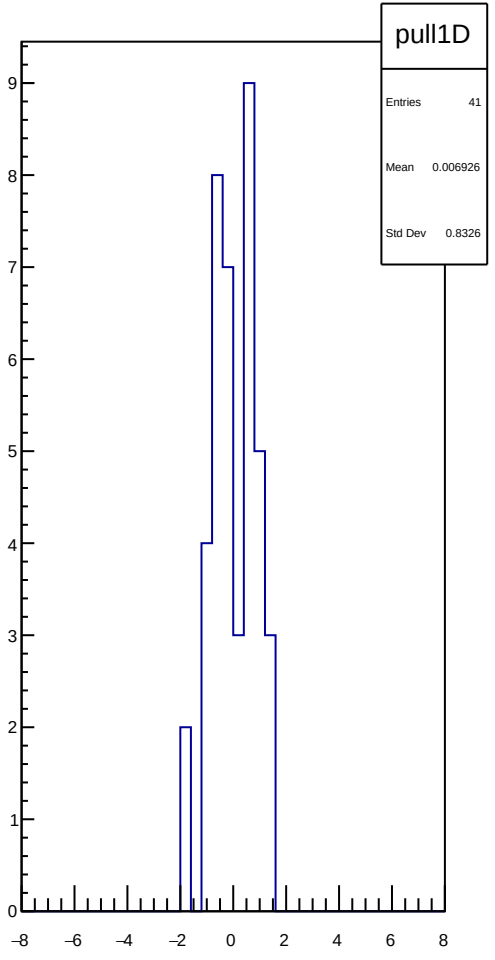

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 1911 / 40
p0 4005 ± 4.471
4600
4400
4200
4000
3800
3600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

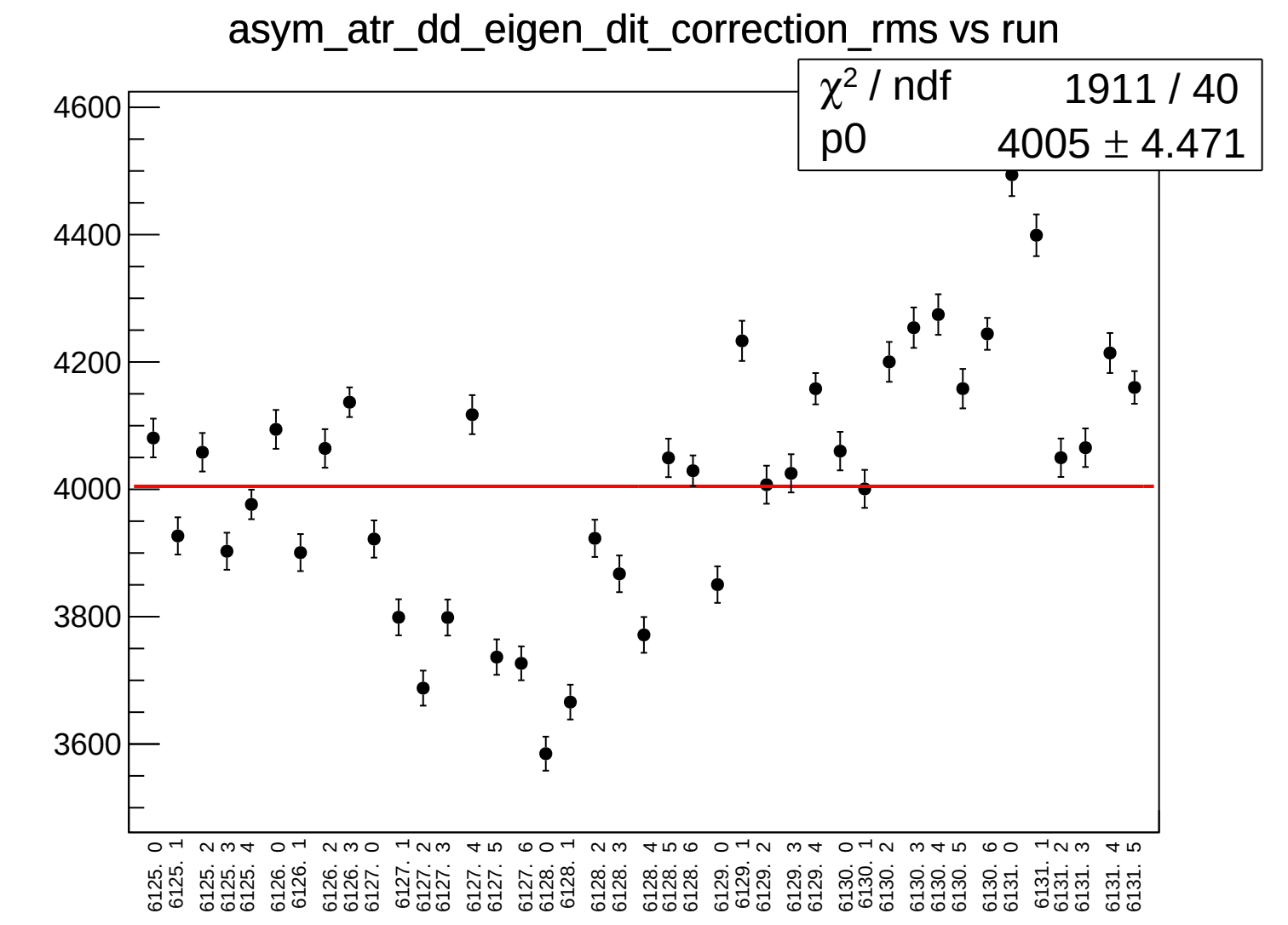

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 36.19 / 40
p0 −697.7 ± 3004
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −483.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

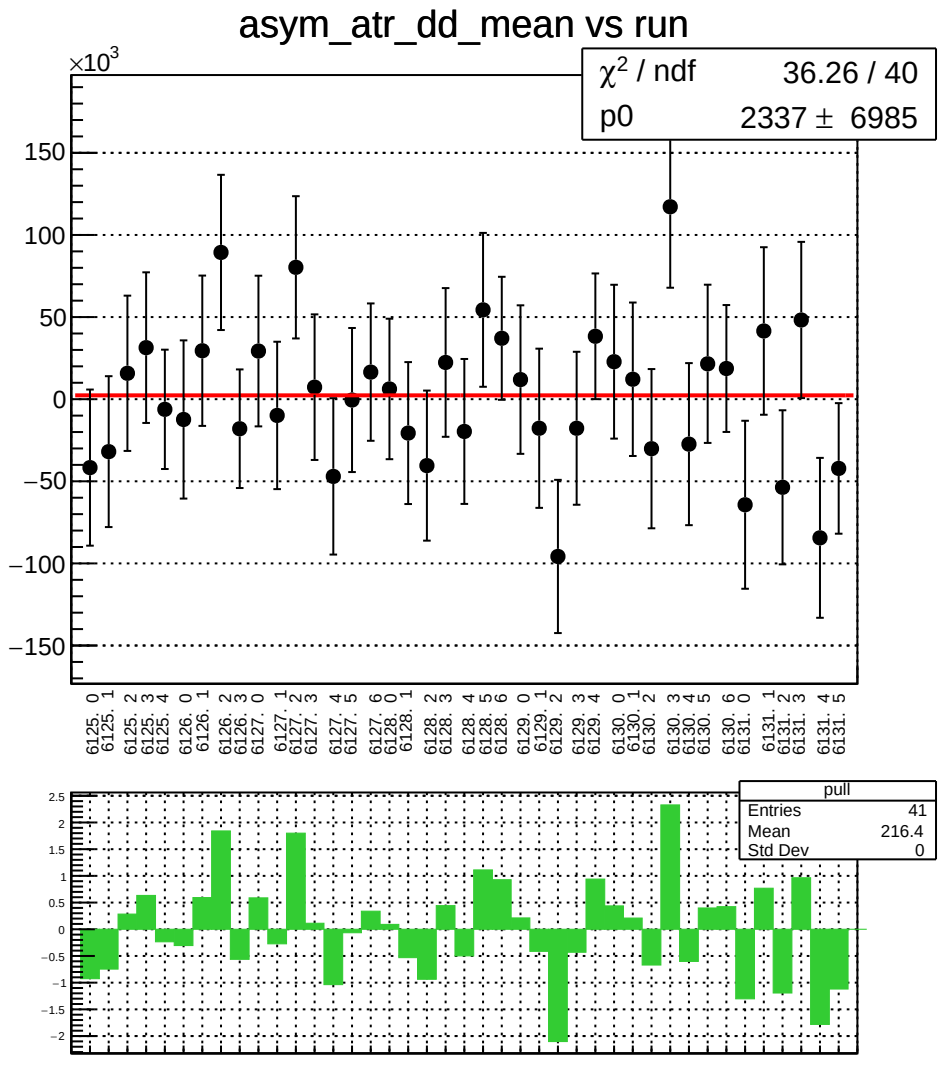

pull1D
Entries 41
Mean 0.001413
Std Dev 0.9395
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

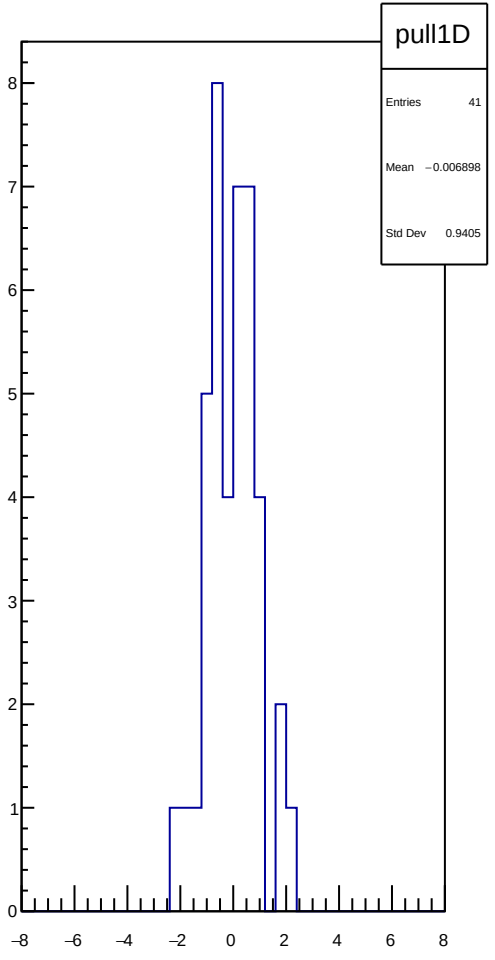

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 41.09 / 40
p0 1905 ± 2.124
1960
1940
1920
1900
1880
1860
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

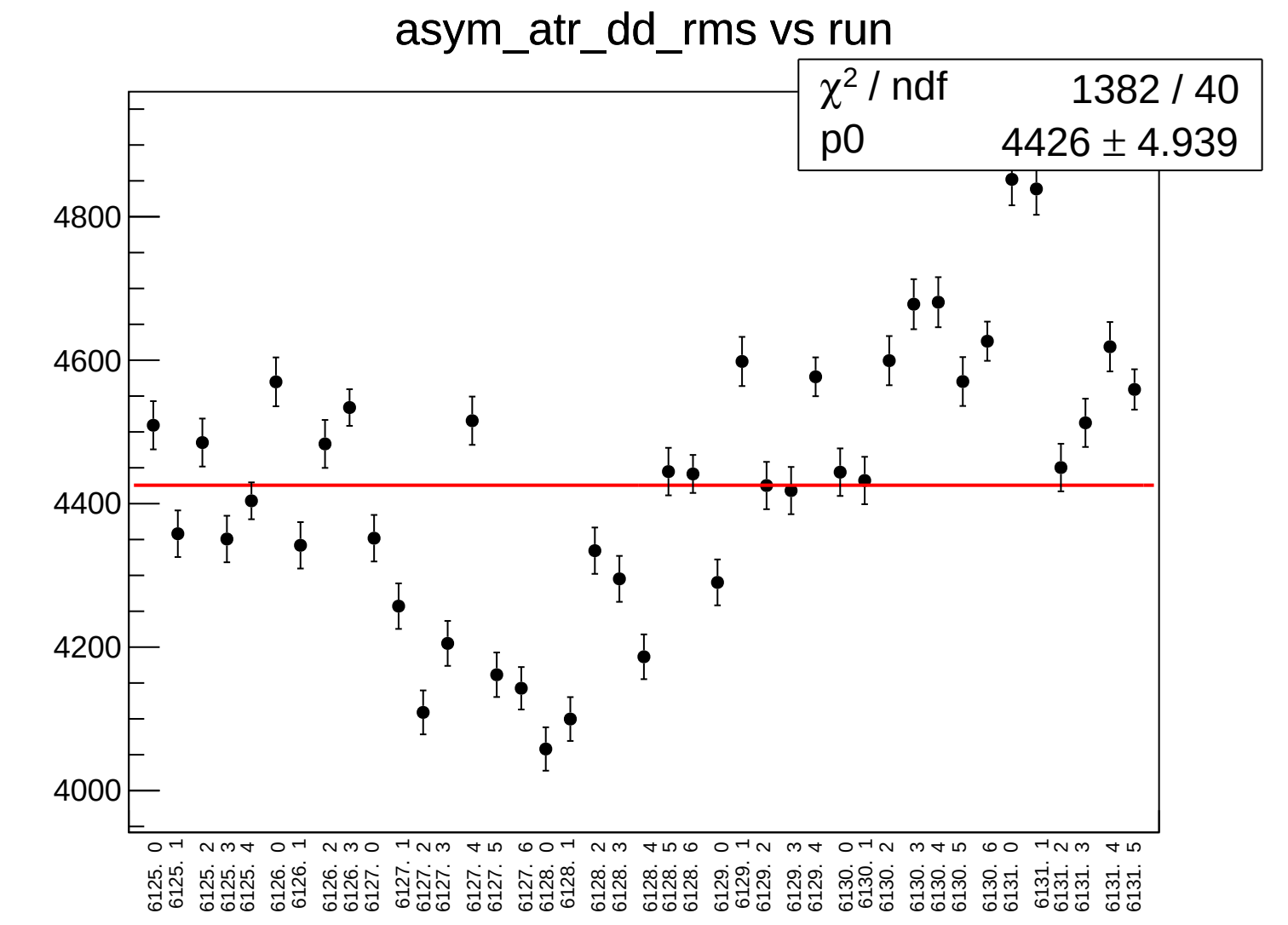

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 28.43 / 40
p0 −2942 ± 6323
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 182.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

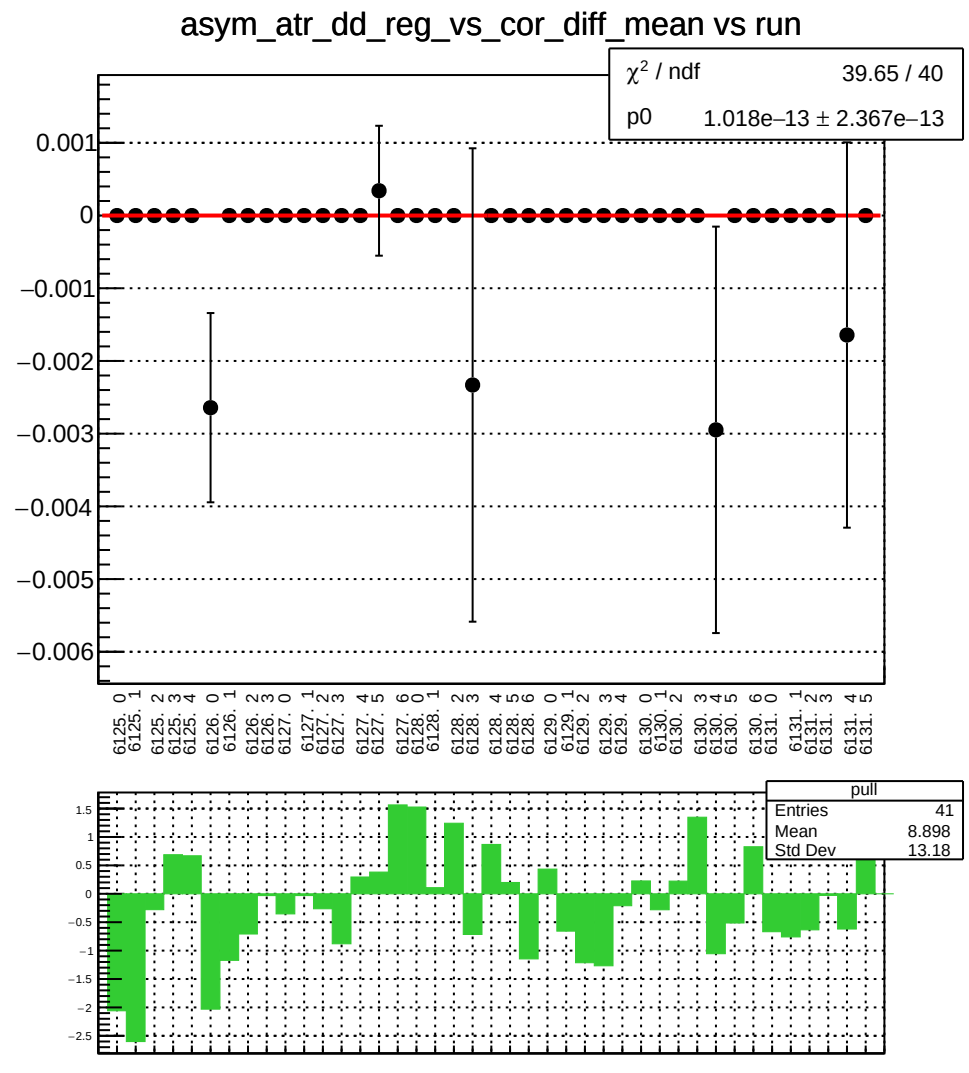

pull1D
Entries 41
Mean 0.006926
Std Dev 0.8326
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

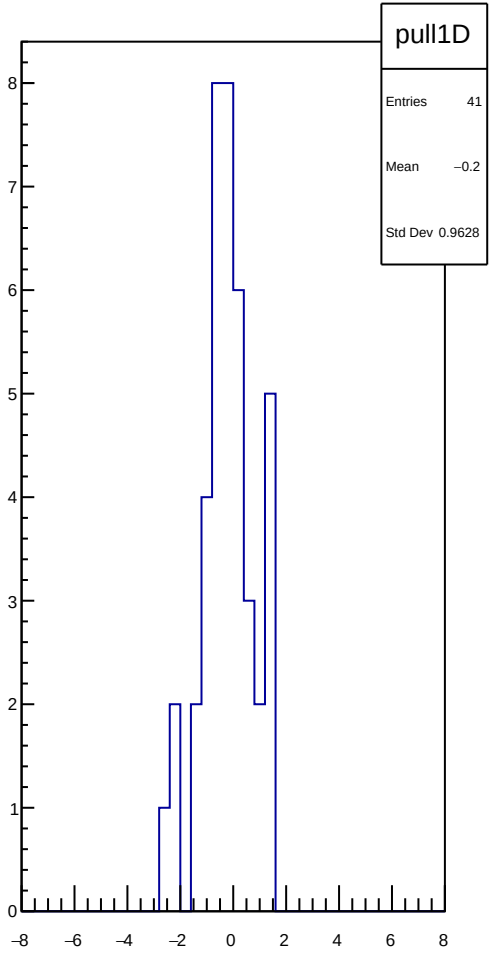

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 1911 / 40
p0 4005 ± 4.471
4600
4400
4200
4000
3800
3600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

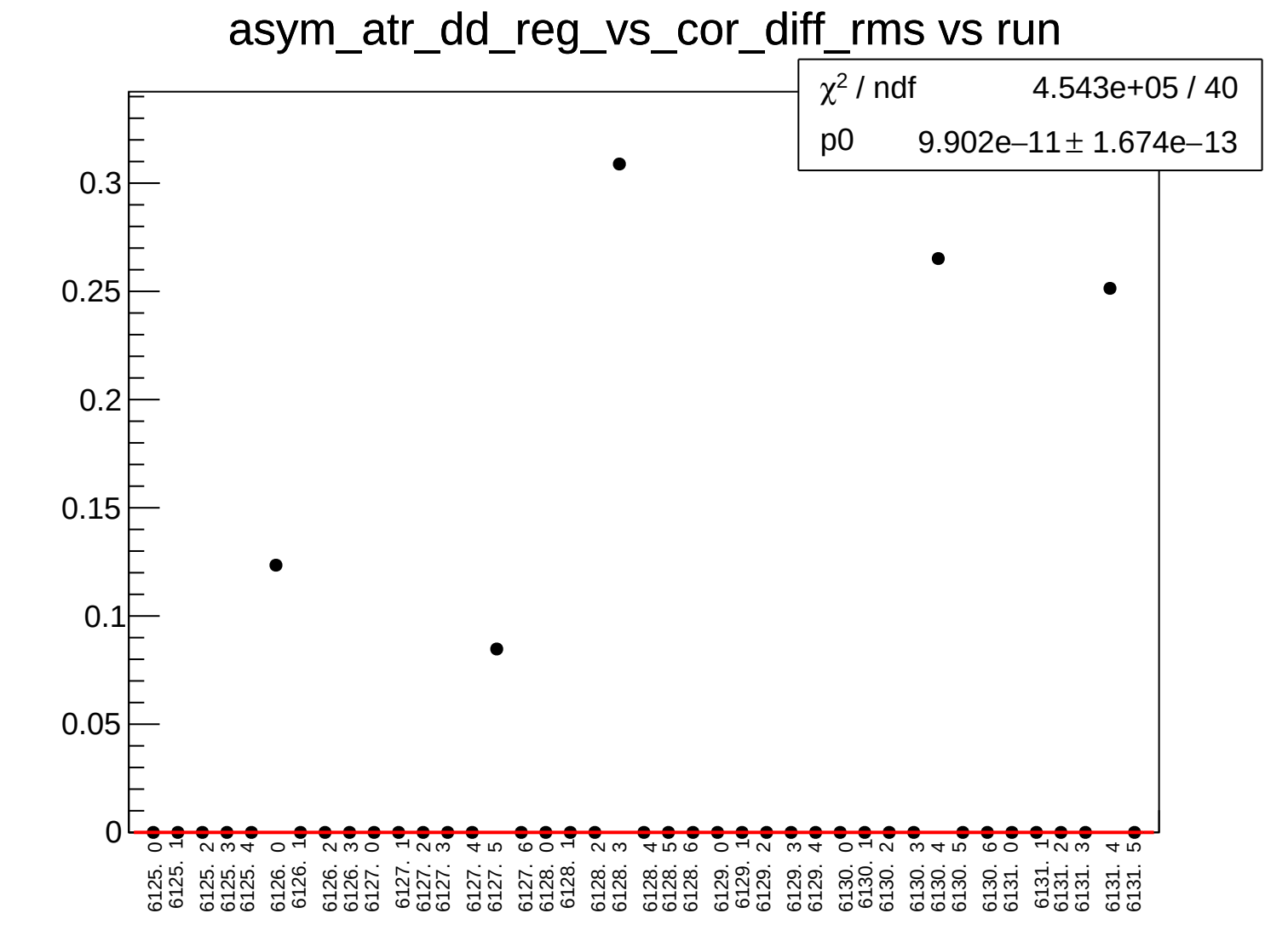

asym_atr_dd_mean vs run
×10^3
χ² / ndf 36.26 / 40
p0 2337 ± 6985
150
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 216.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

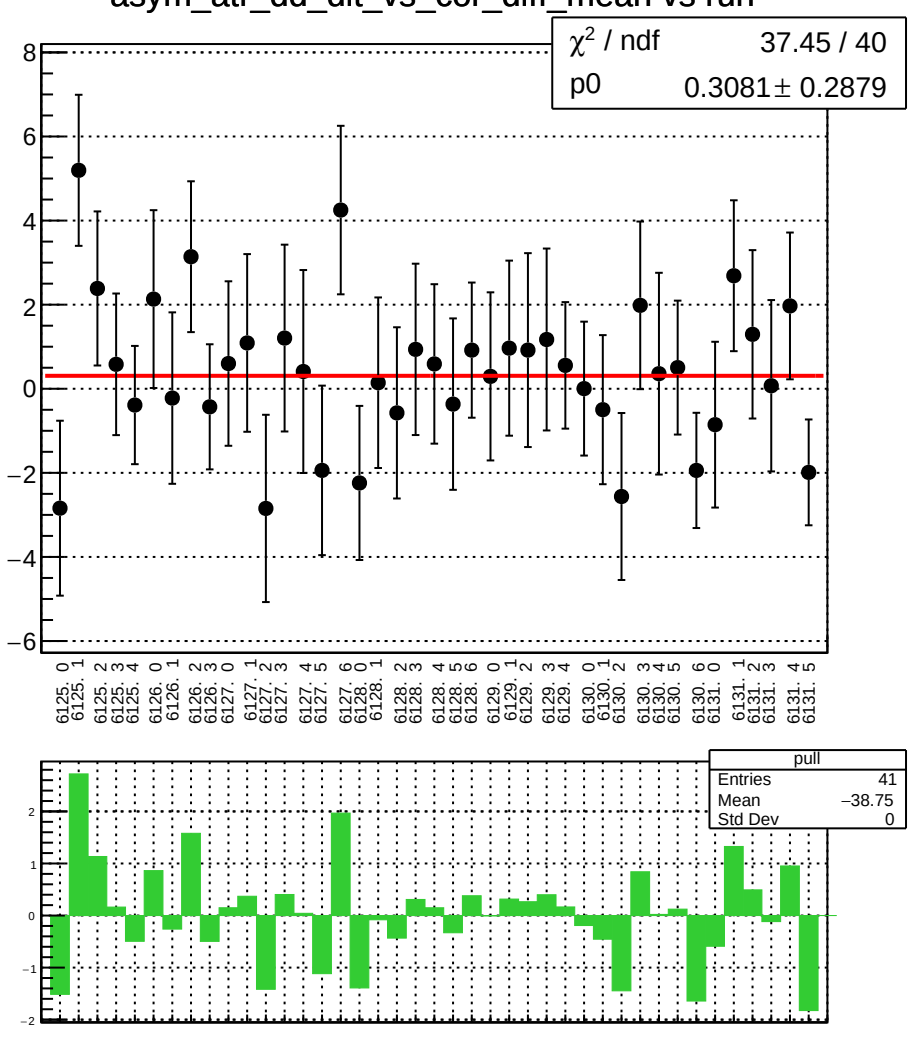

pull1D
Entries 41
Mean −0.006898
Std Dev 0.9405
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

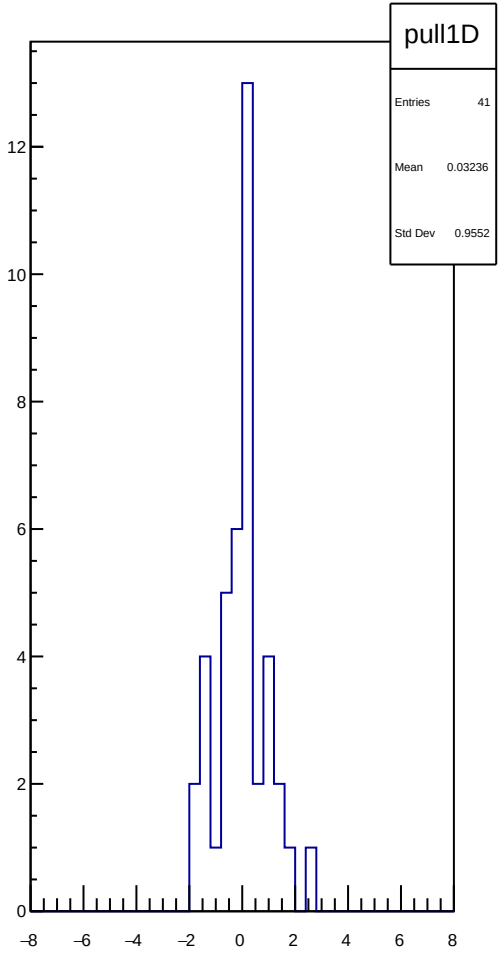

asym_atr_dd_rms vs run
χ² / ndf 1382 / 40
p0 4426 ± 4.939
4800
4600
4400
4200
4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

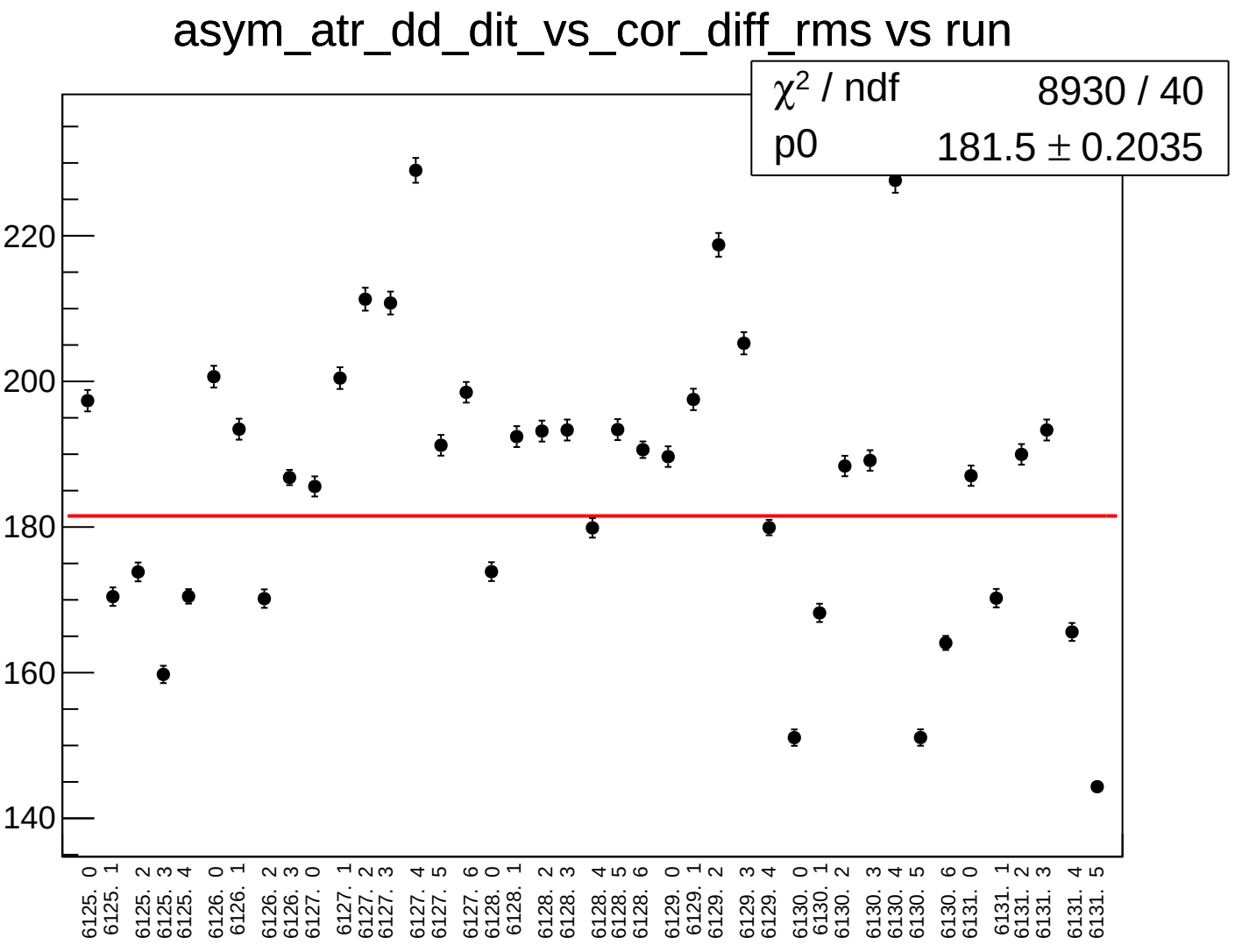

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 39.65 / 40
p0 1.018e−13 ± 2.367e−13
0.001
0
−0.001
−0.002
−0.003
−0.004
−0.005
−0.006
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 8.898
Std Dev 13.18
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

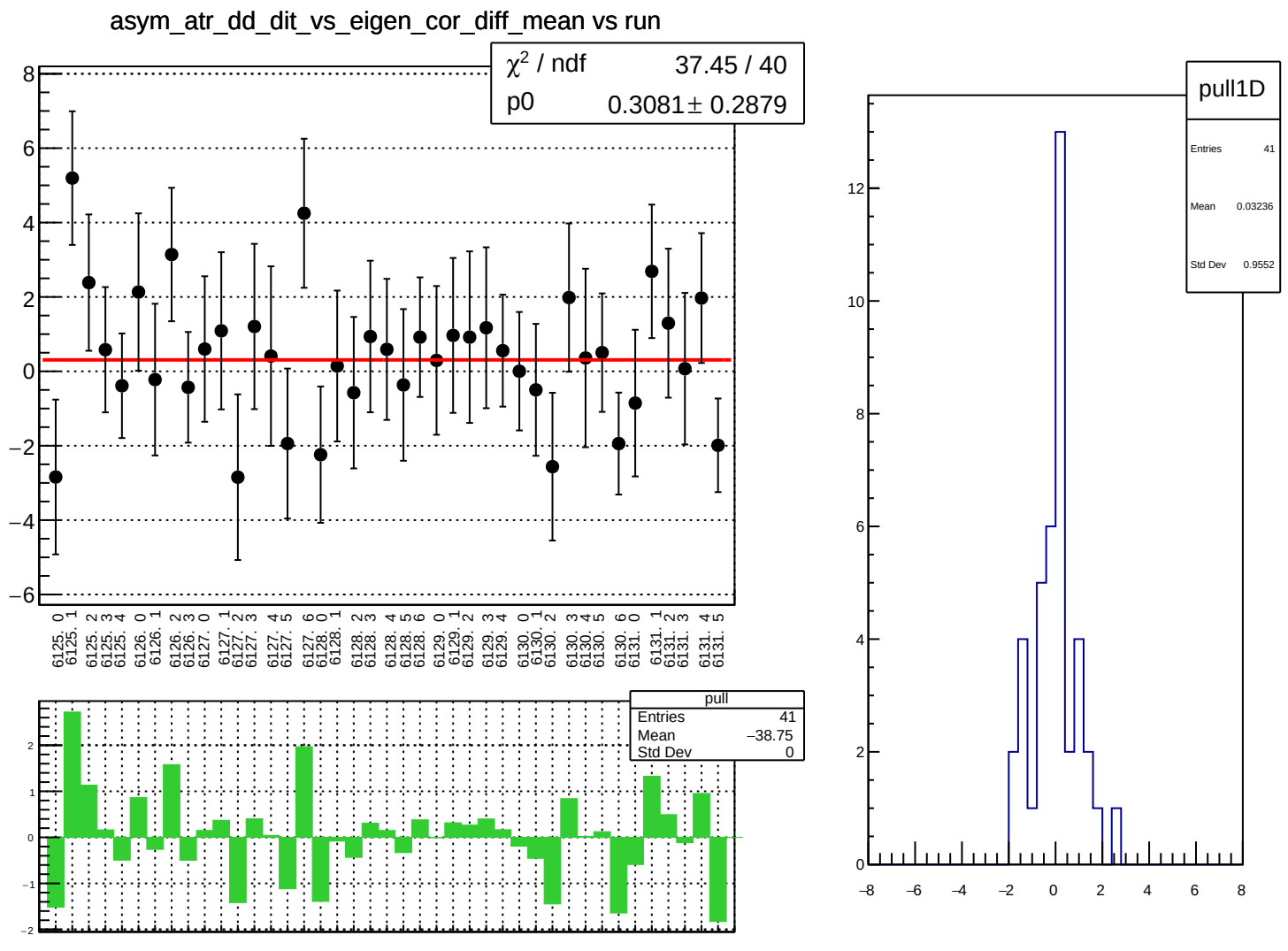

pull1D
Entries 41
Mean −0.2
Std Dev 0.9628
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

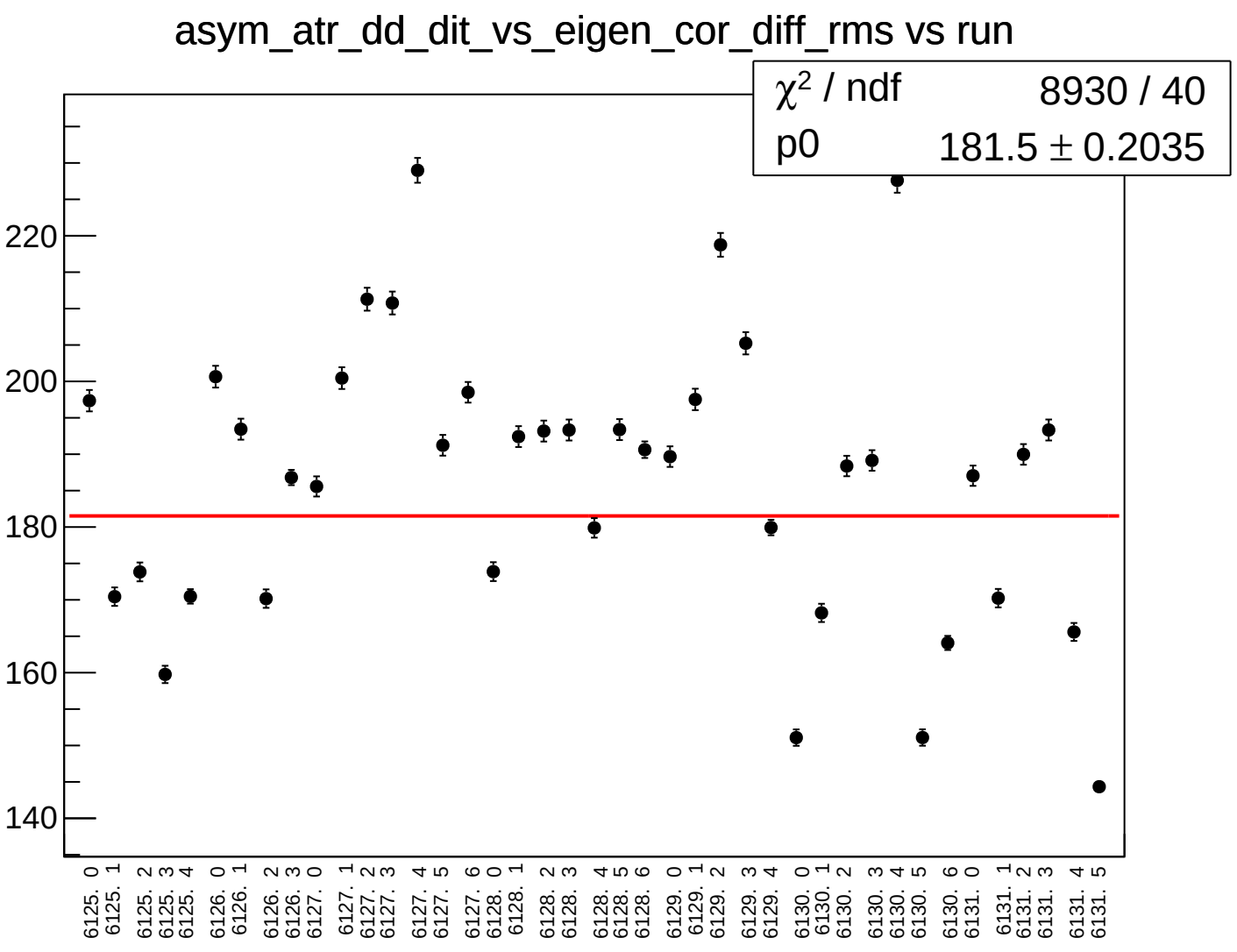

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.543e+05 / 40
p0 9.902e−11 ± 1.674e−13
0.3
0.25
0.2
0.15
0.1
0.05
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

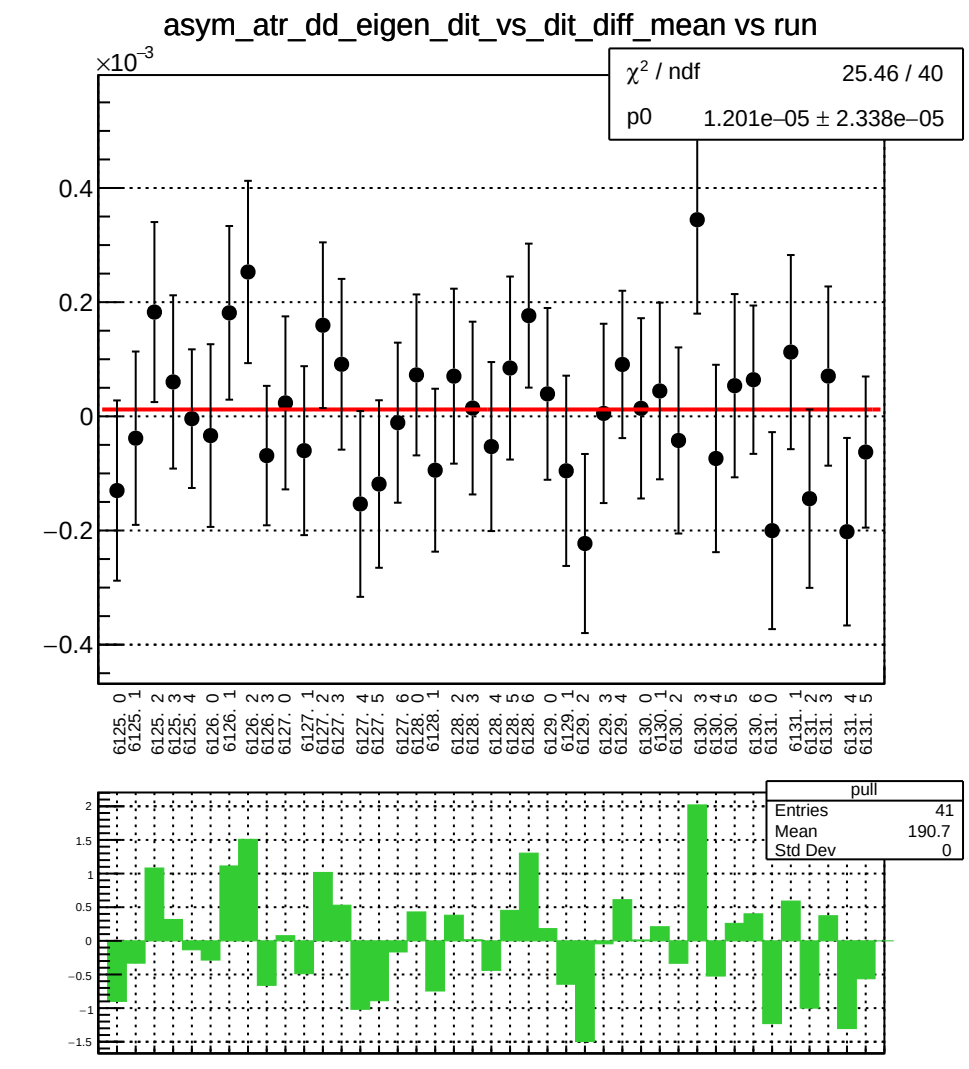

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 37.45 / 40
p0 0.3081 ± 0.2879
pull
Entries 41
Mean −38.75
Std Dev 0

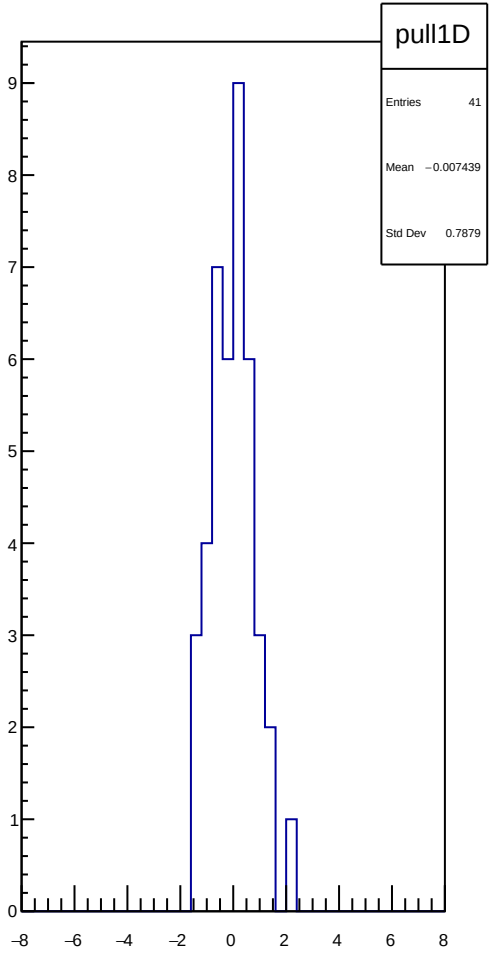

pull1D
Entries 41
Mean 0.03236
Std Dev 0.9552

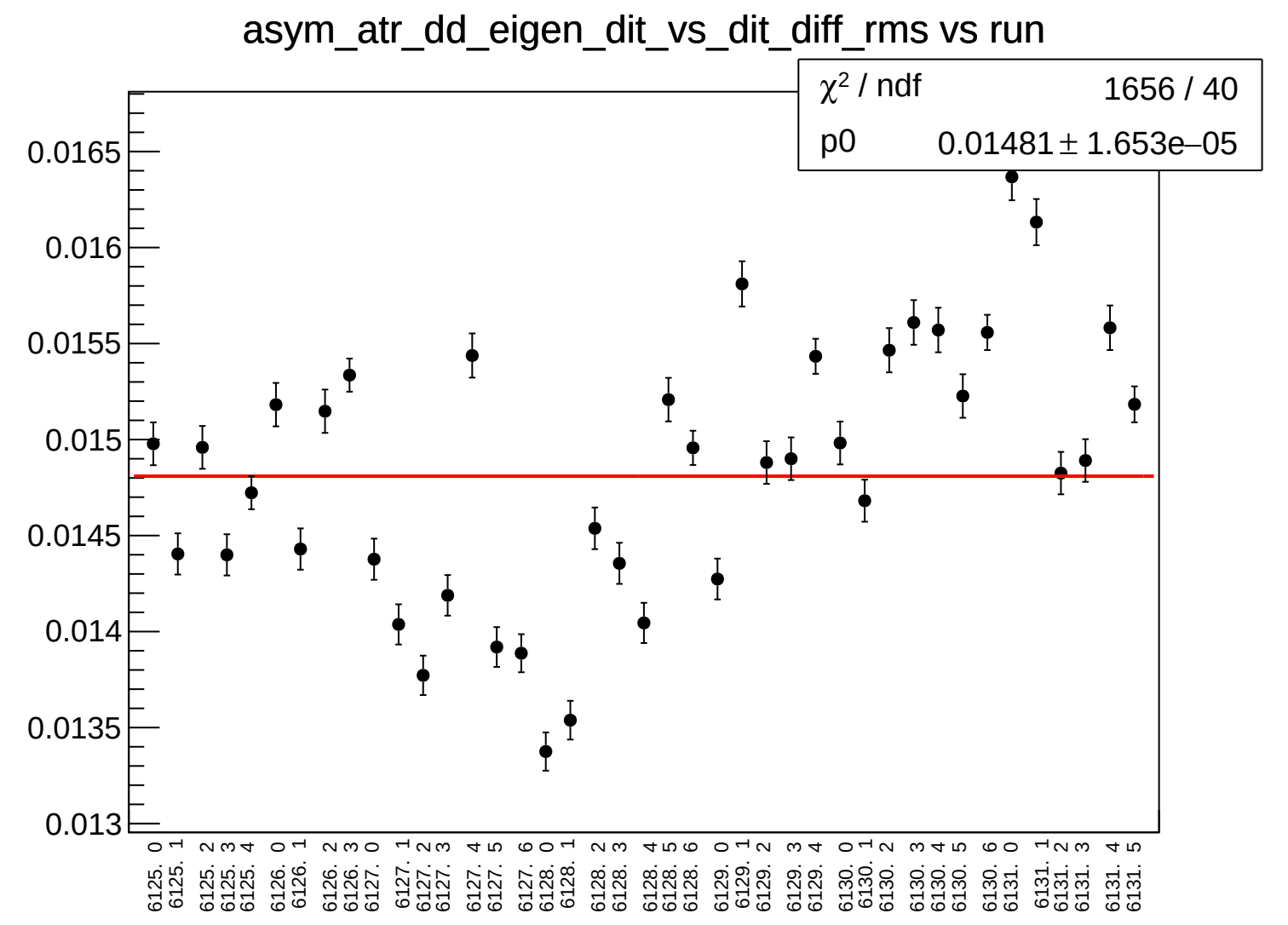

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8930 / 40
p0 181.5 ± 0.2035
220
200
180
160
140
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

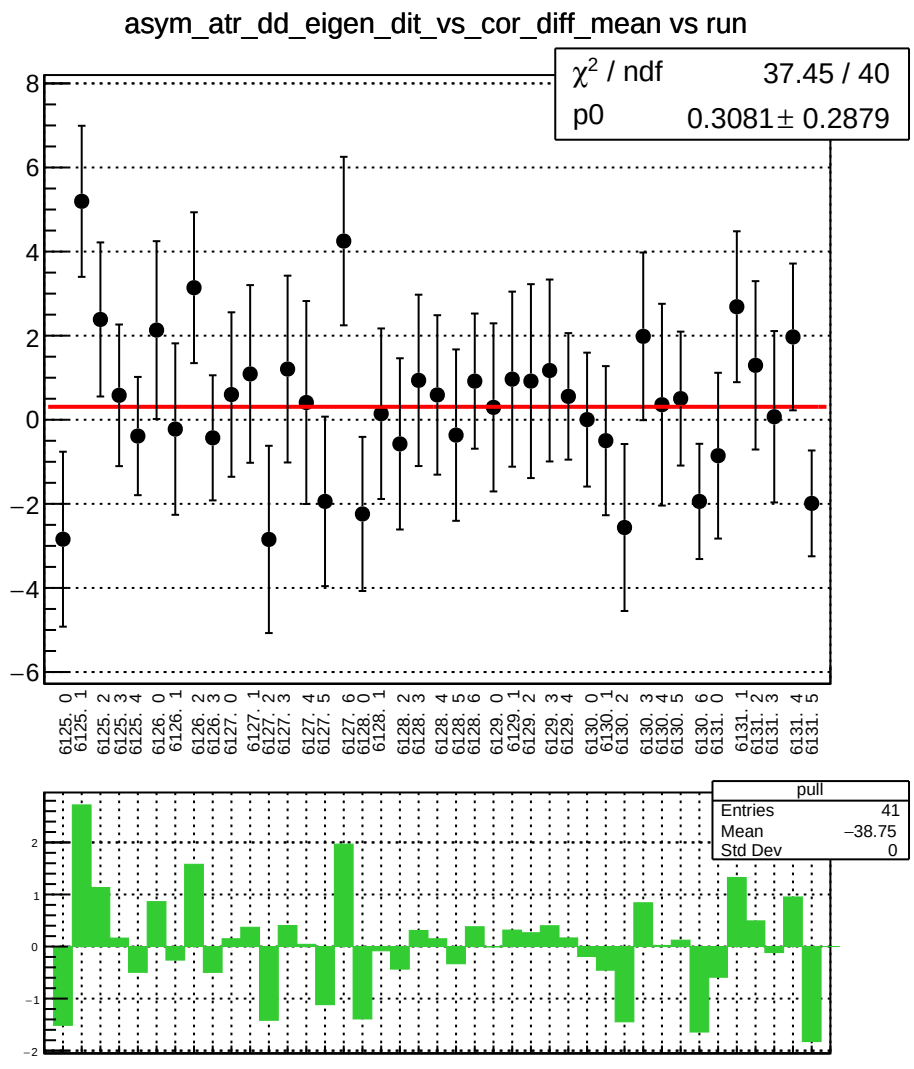

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.45 / 40
p0 0.3081 ± 0.2879
pull
Entries 41
Mean −38.75
Std Dev 0
pull1D
Entries 41
Mean 0.03236
Std Dev 0.9552

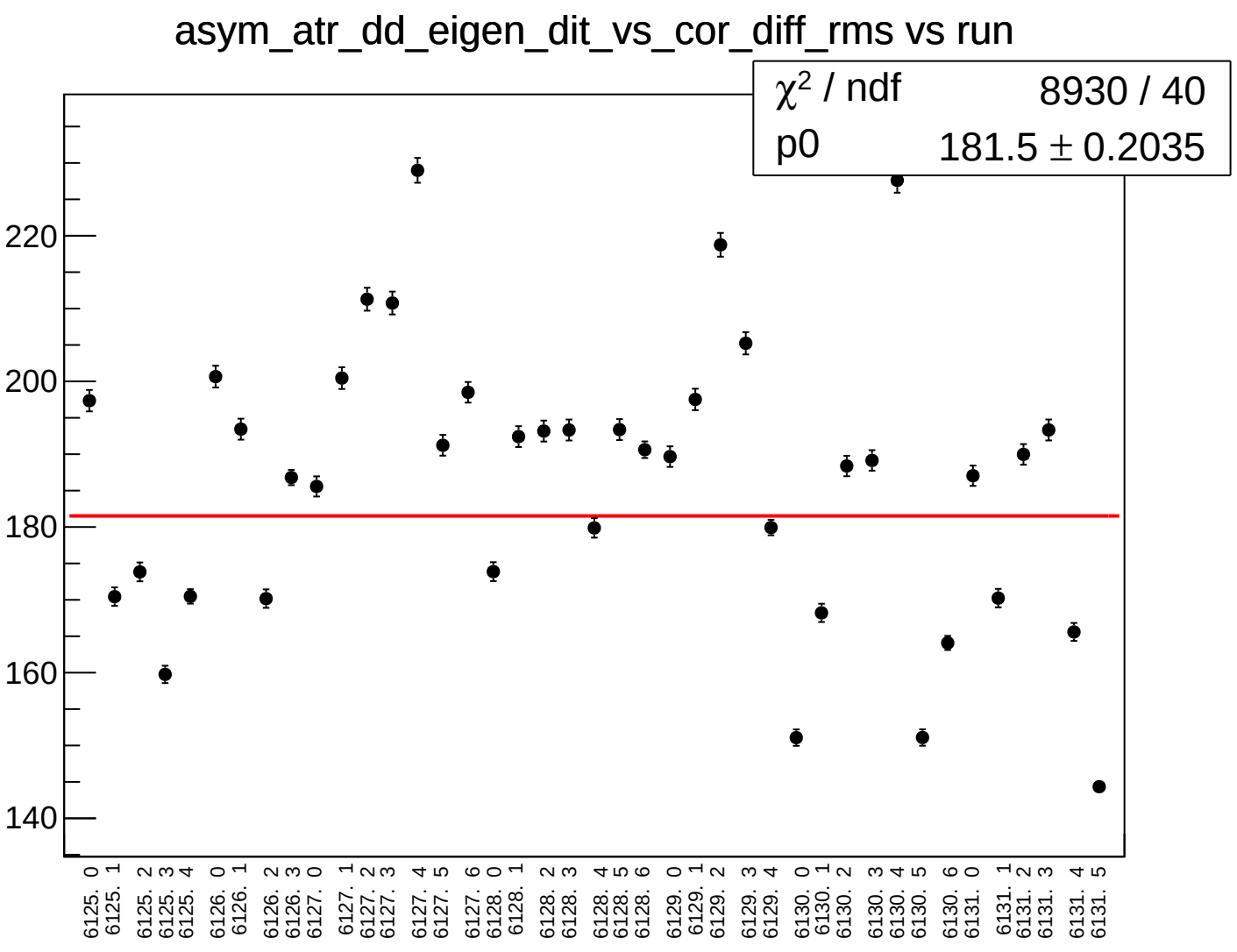

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8930 / 40
p0 181.5 ± 0.2035
220
200
180
160
140
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

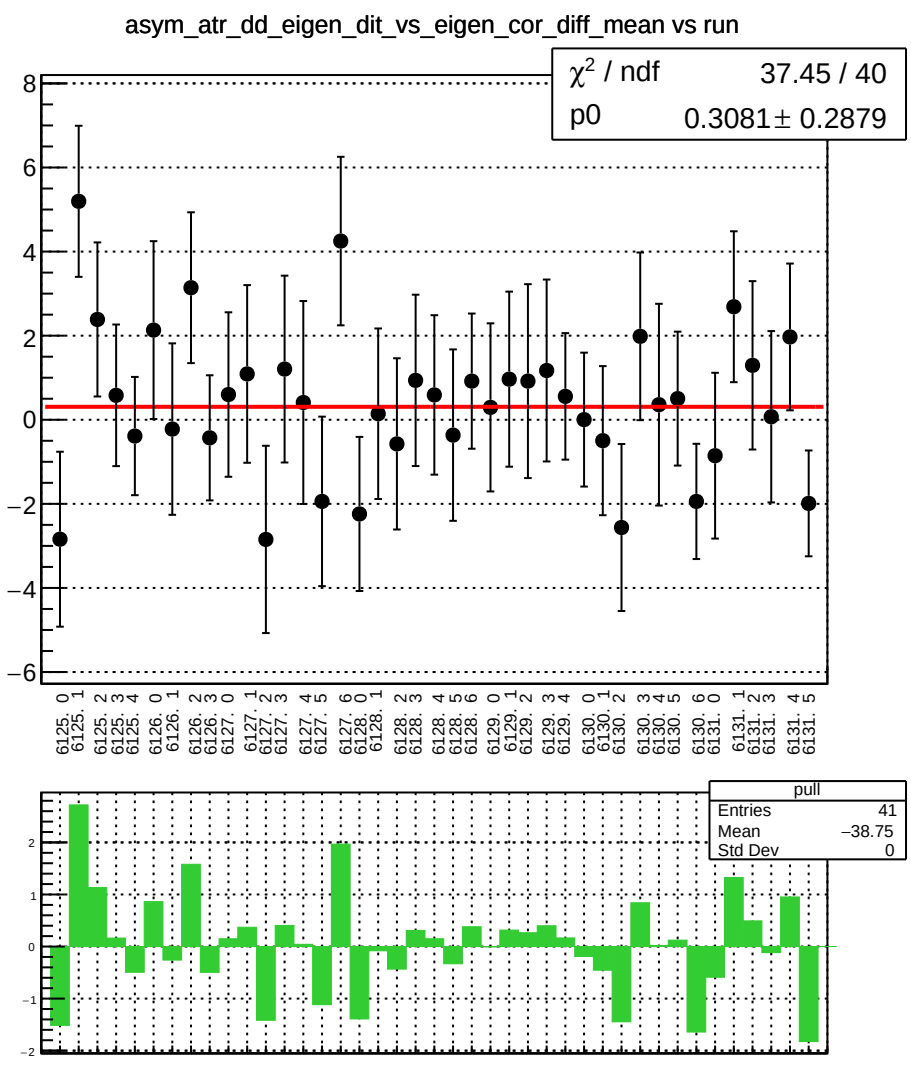

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 25.46 / 40
p0 1.201e−05 ± 2.338e−05
0.4
0.2
0
−0.2
−0.4
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 190.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

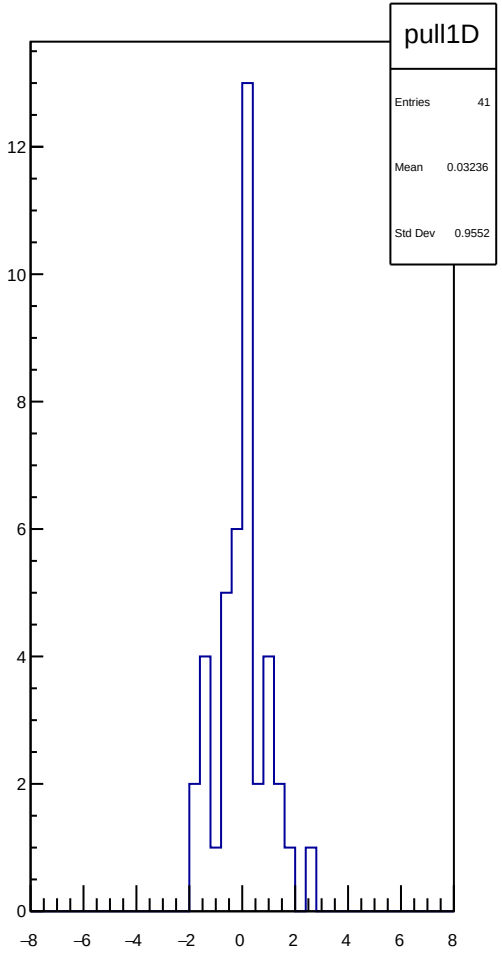

pull1D
Entries 41
Mean −0.007439
Std Dev 0.7879
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

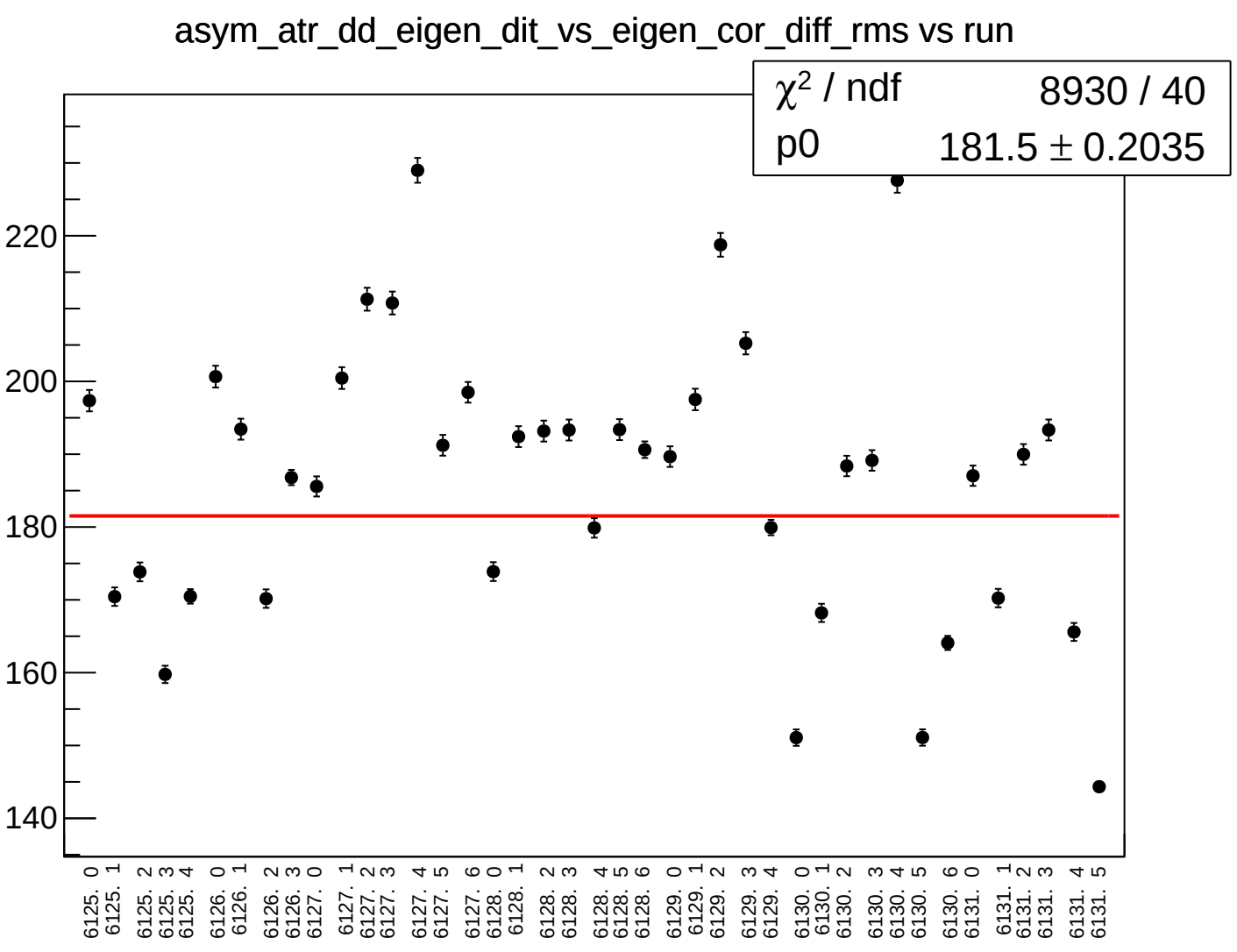

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1656 / 40
p0 0.01481 ± 1.653e–05
0.0165
0.016
0.0155
0.015
0.0145
0.014
0.0135
0.013
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

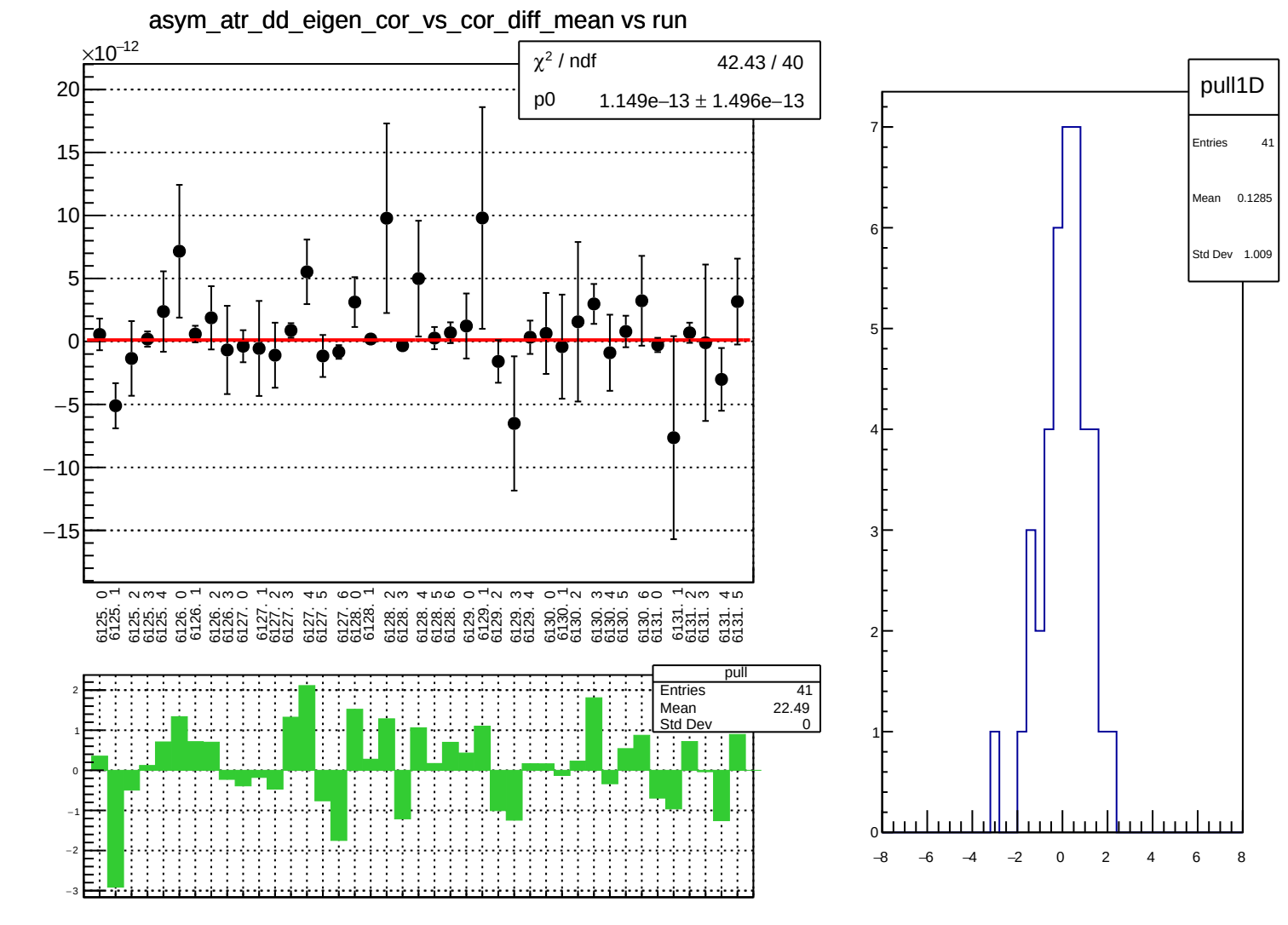

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.45 / 40
p0 0.3081 ± 0.2879
pull
Entries 41
Mean −38.75
Std Dev 0
pull1D
Entries 41
Mean 0.03236
Std Dev 0.9552

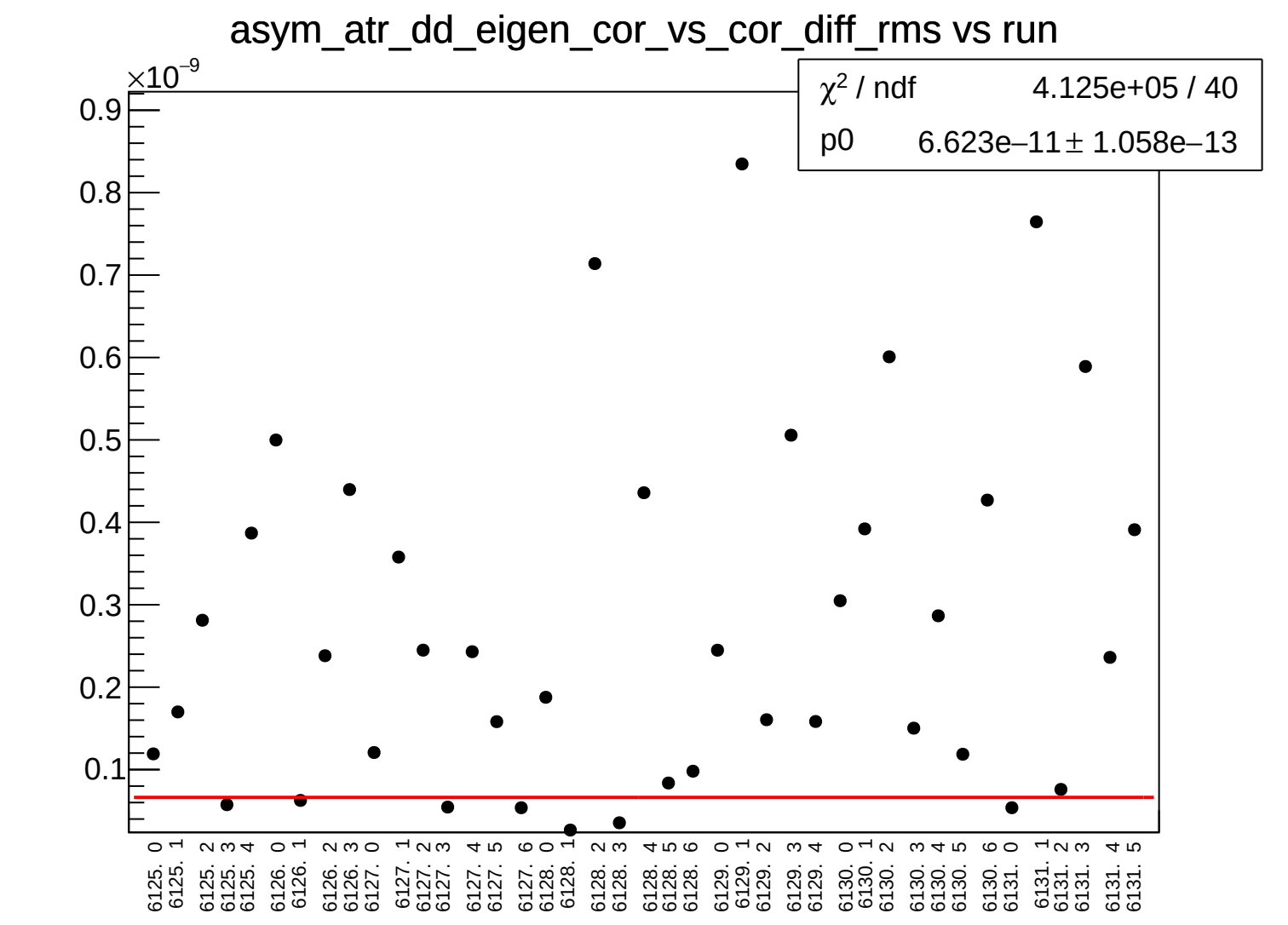

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8930 / 40
p0 181.5 ± 0.2035
220
200
180
160
140
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

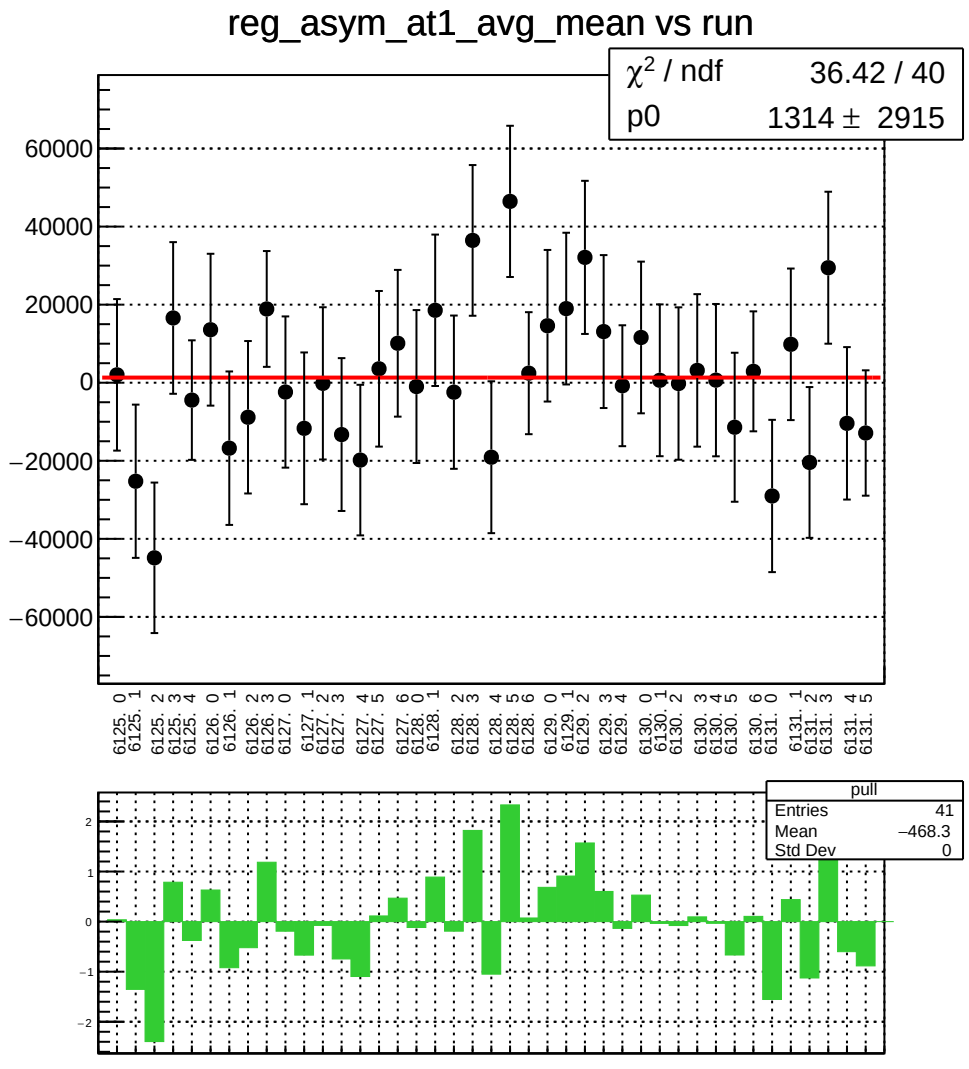

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.45 / 40
p0 0.3081 ± 0.2879
pull
Entries 41
Mean −38.75
Std Dev 0

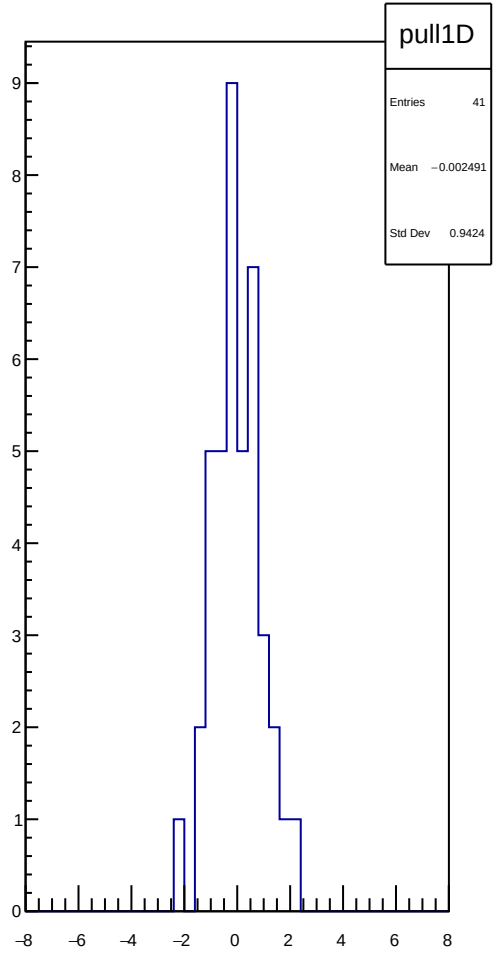

pull1D
Entries 41
Mean 0.03236
Std Dev 0.9552

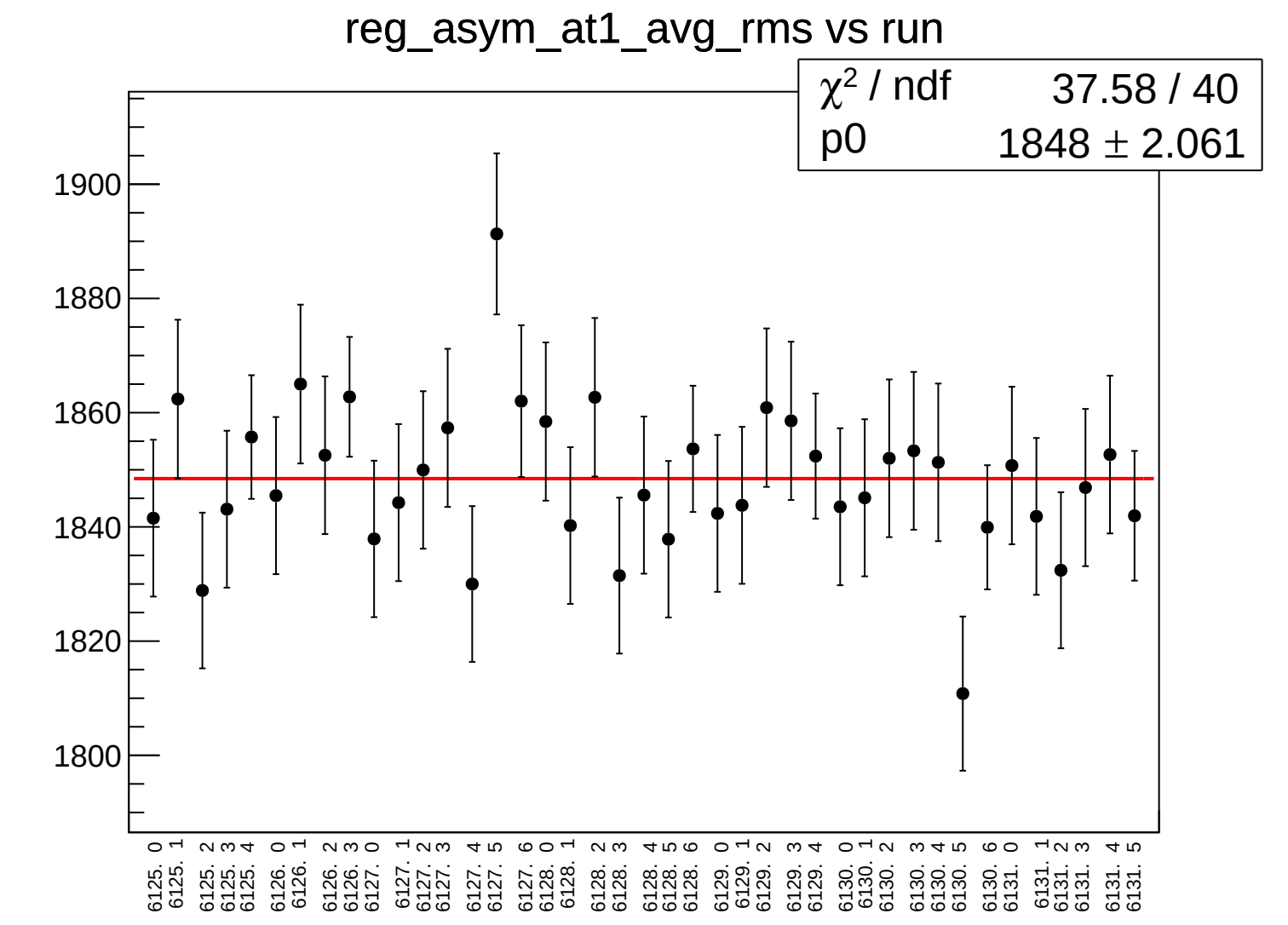

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8930 / 40
p0 181.5 ± 0.2035
220
200
180
160
140
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

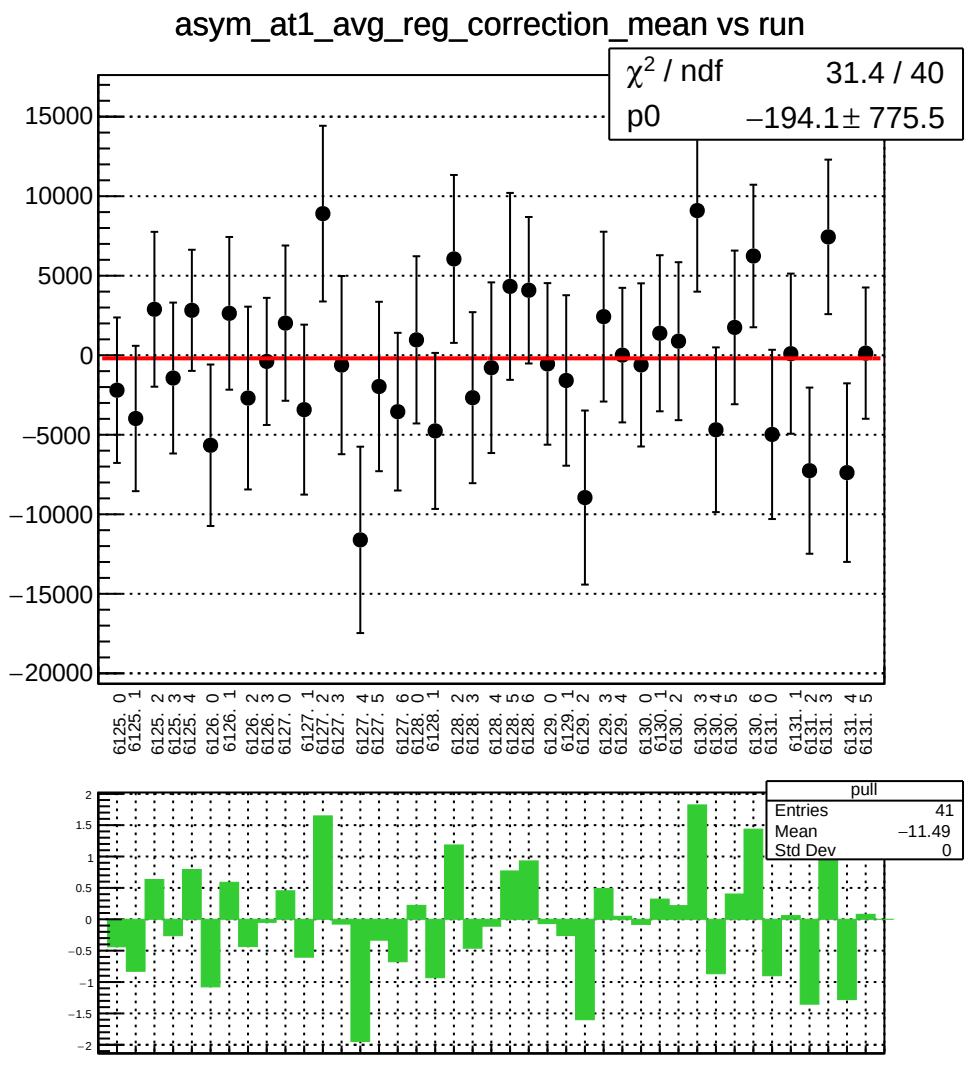

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 42.43 / 40
p0 1.149e−13 ± 1.496e−13
pull
Entries 41
Mean 22.49
Std Dev 0
pull1D
Entries 41
Mean 0.1285
Std Dev 1.009

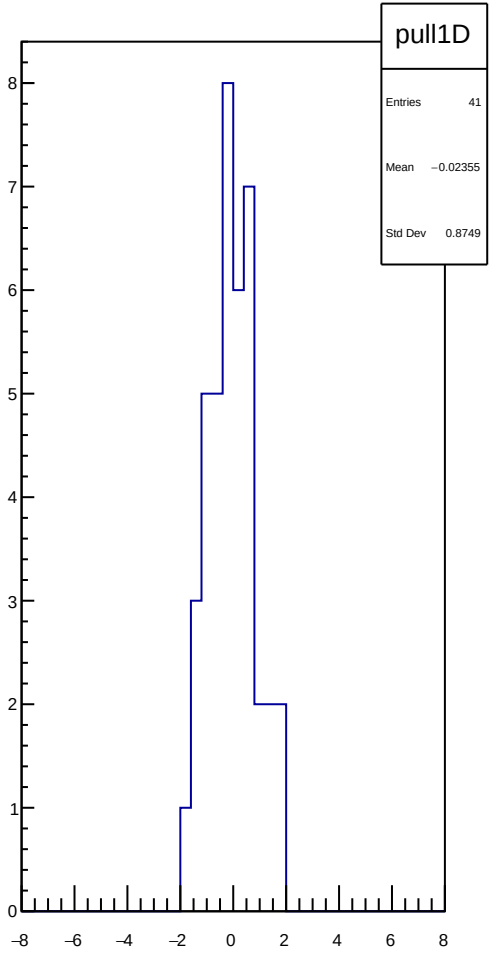

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.125e+05 / 40
p0 6.623e−11 ± 1.058e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

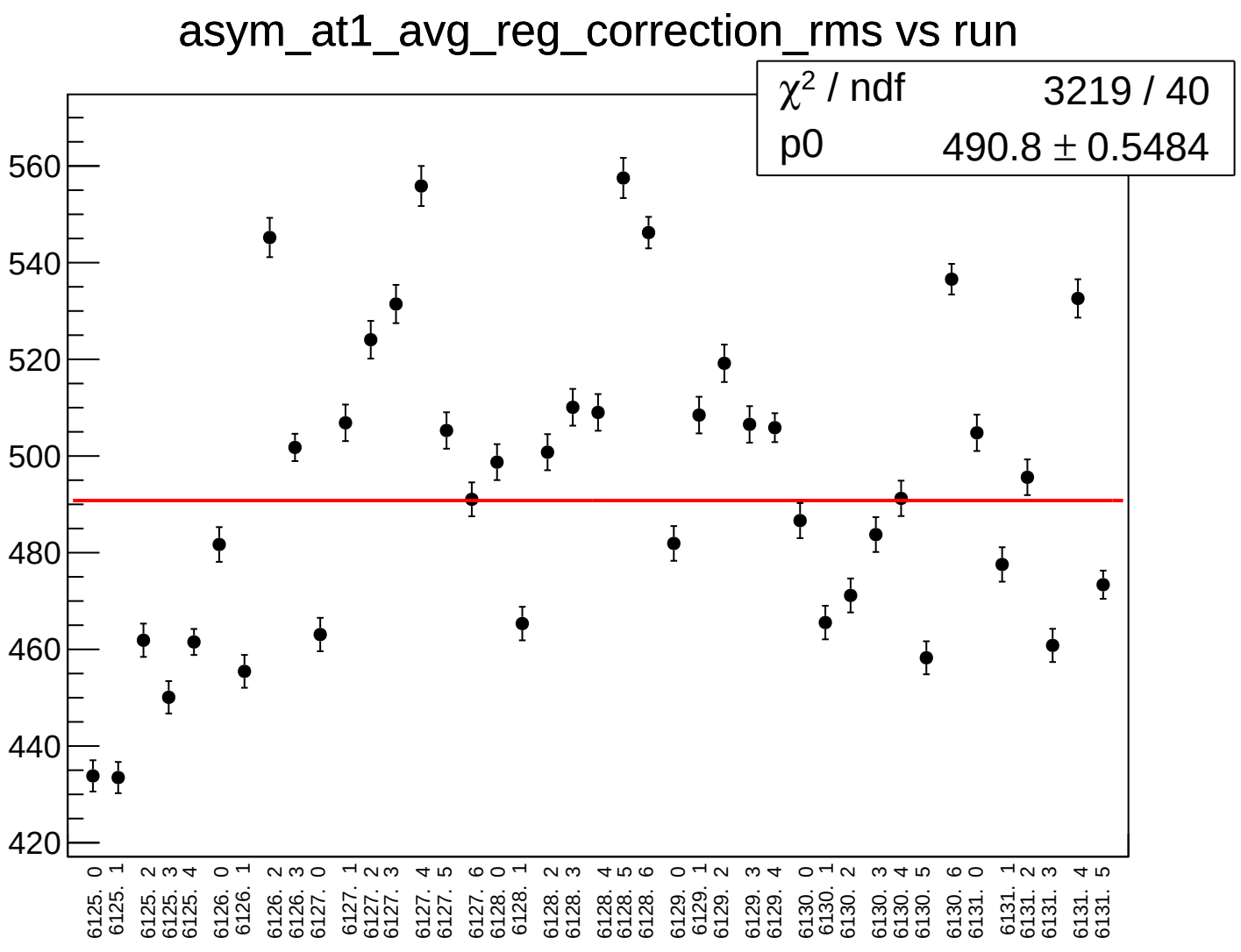

reg_asym_at1_avg_mean vs run
χ² / ndf 36.42 / 40
p0 1314 ± 2915
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −468.3
Std Dev 0
2
1
0
−1
−2

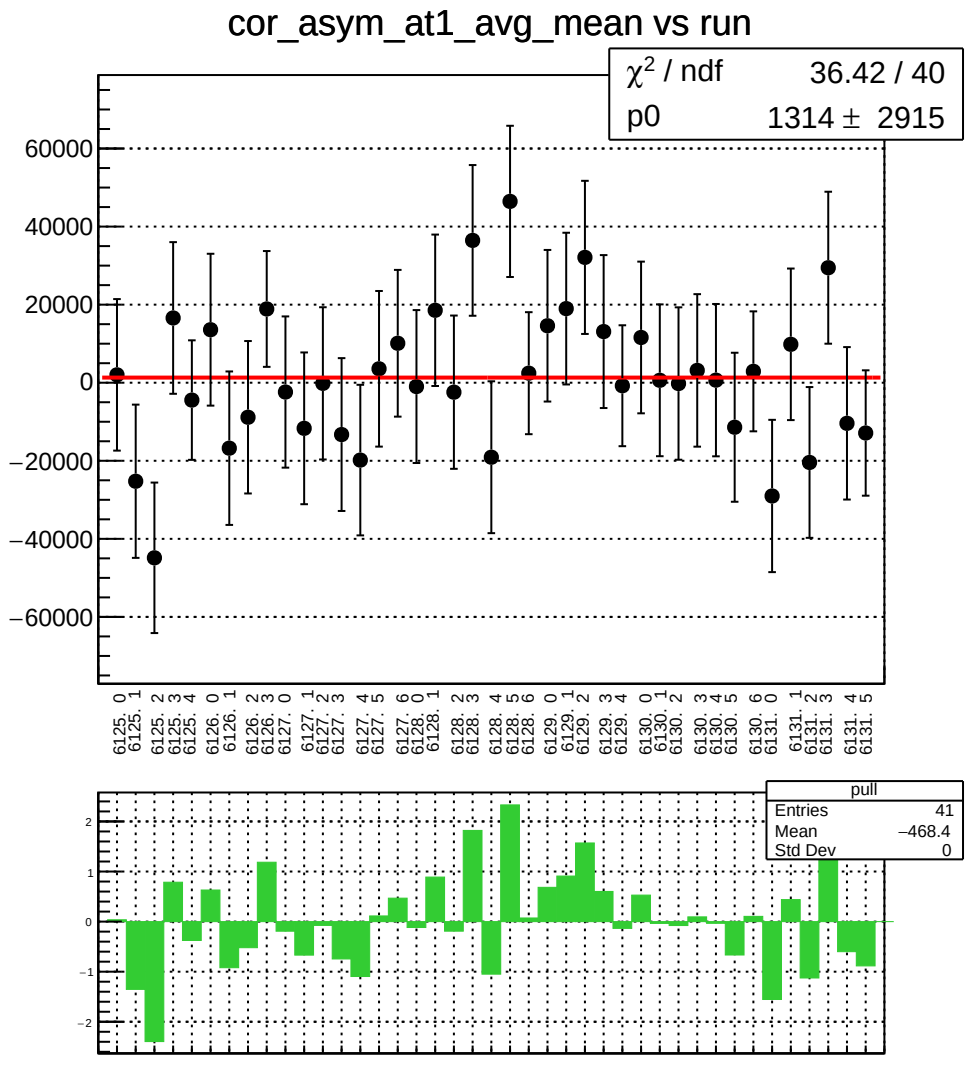

pull1D
Entries 41
Mean −0.002491
Std Dev 0.9424
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

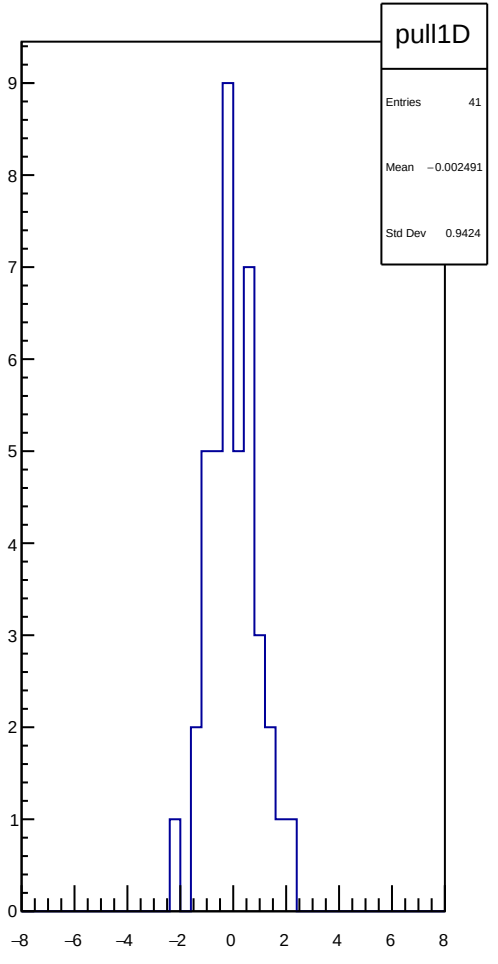

reg_asym_at1_avg_rms vs run
χ² / ndf 37.58 / 40
p0 1848 ± 2.061
1900
1880
1860
1840
1820
1800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

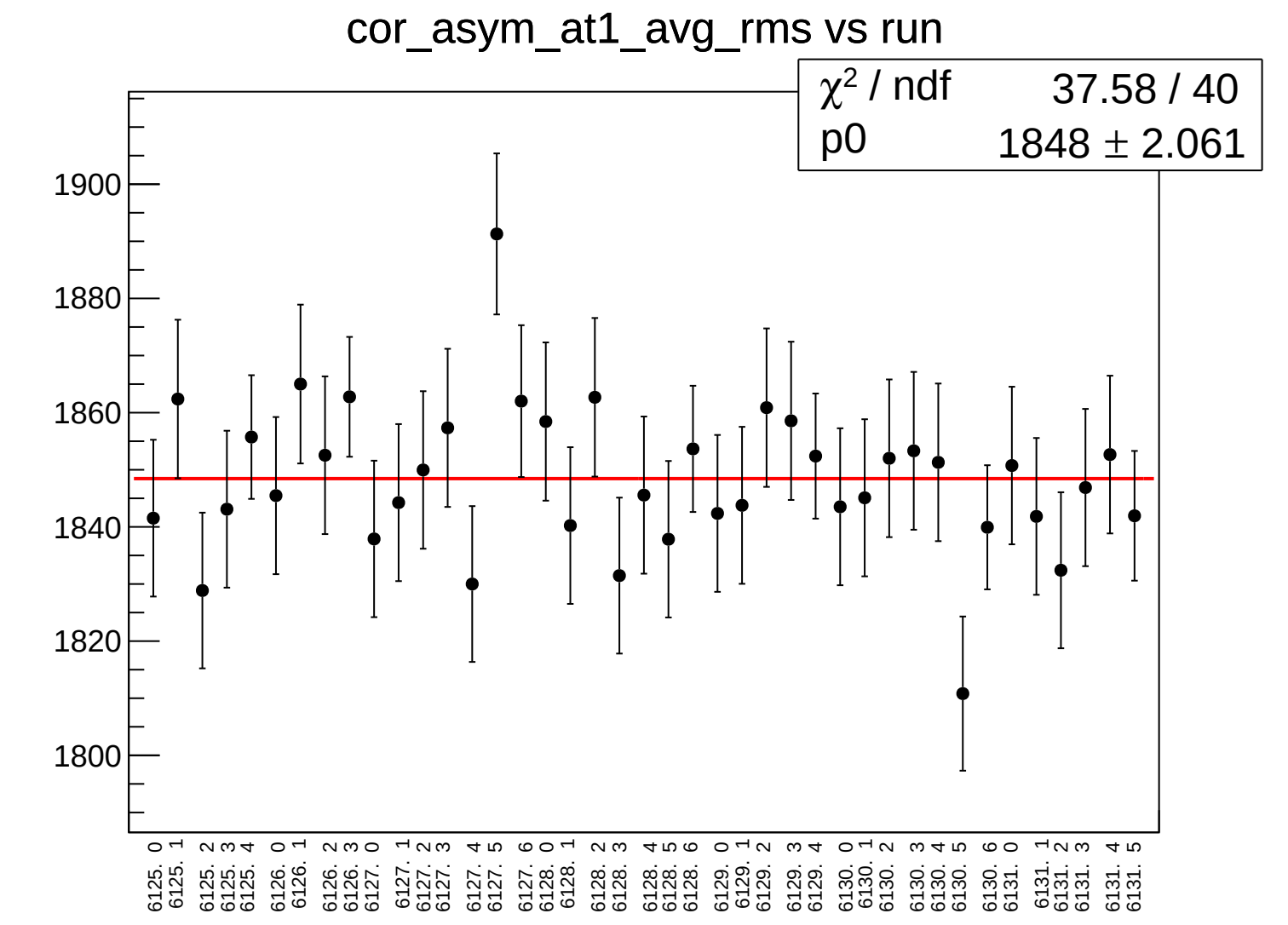

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 31.4 / 40
p0 −194.1± 775.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −11.49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

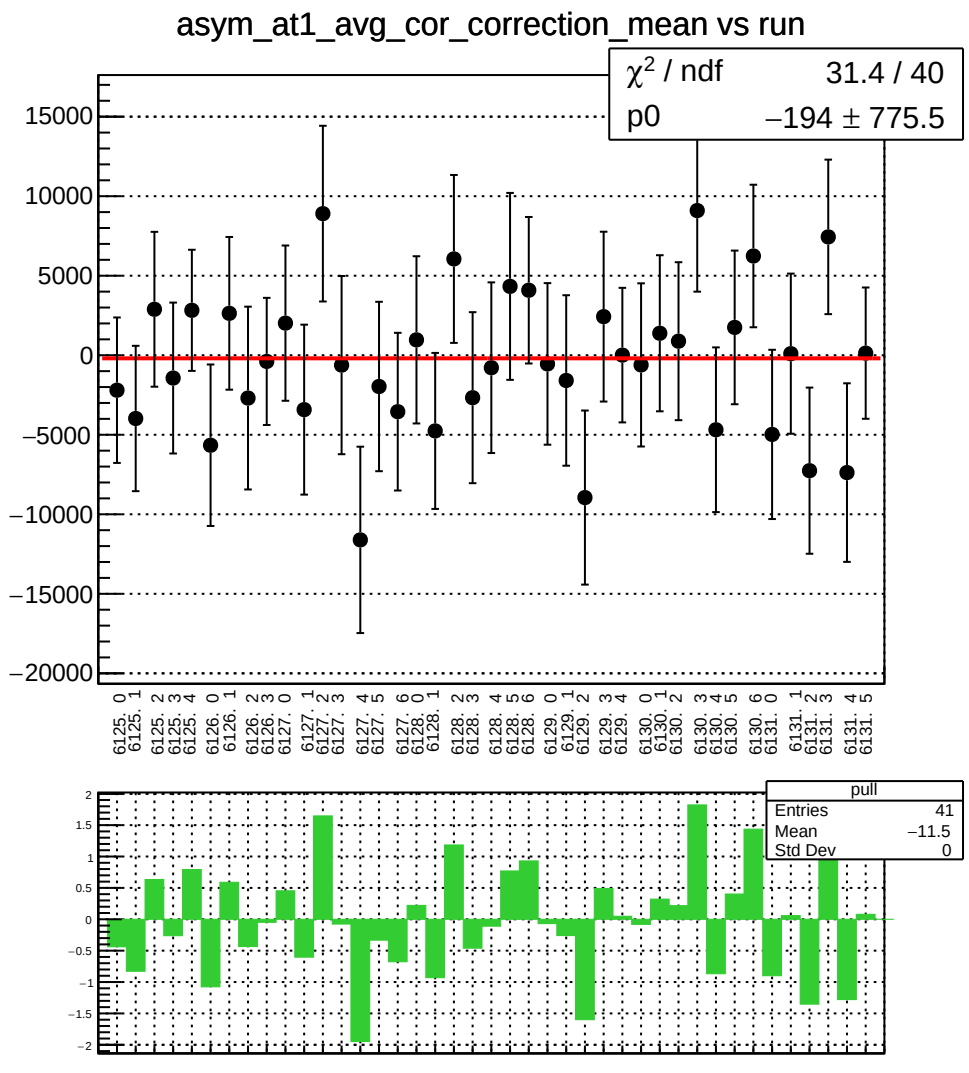

pull1D
Entries 41
Mean −0.02355
Std Dev 0.8749
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

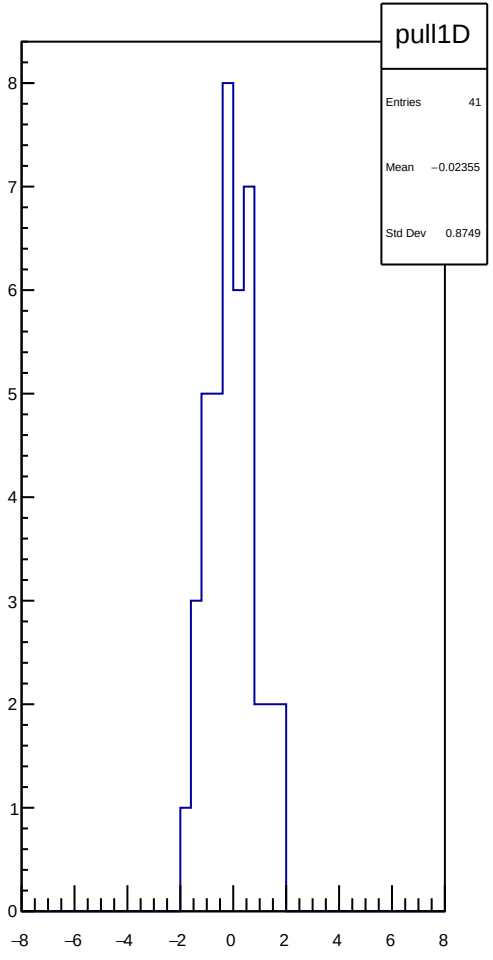

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 3219 / 40
p0 490.8 ± 0.5484
560
540
520
500
480
460
440
420
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

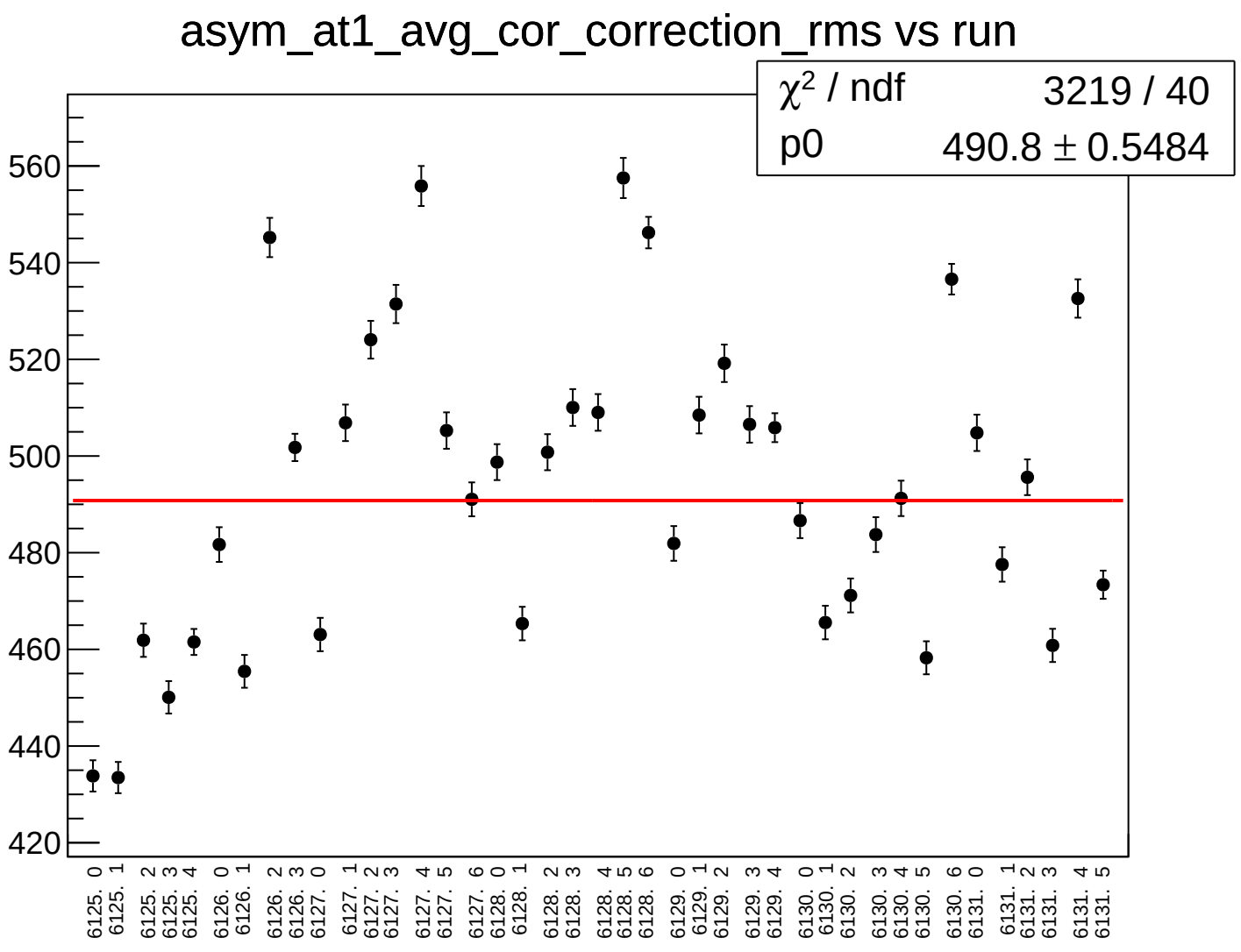

cor_asym_at1_avg_mean vs run
χ² / ndf 36.42 / 40
p0 1314 ± 2915
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −468.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.002491
Std Dev 0.9424
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at1_avg_rms vs run
χ² / ndf 37.58 / 40
p0 1848 ± 2.061
1900
1880
1860
1840
1820
1800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_at1_avg_cor_correction_mean vs run
χ² / ndf 31.4 / 40
p0 −194 ± 775.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −11.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.02355
Std Dev 0.8749
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 3219 / 40
p0 490.8 ± 0.5484
560
540
520
500
480
460
440
420
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
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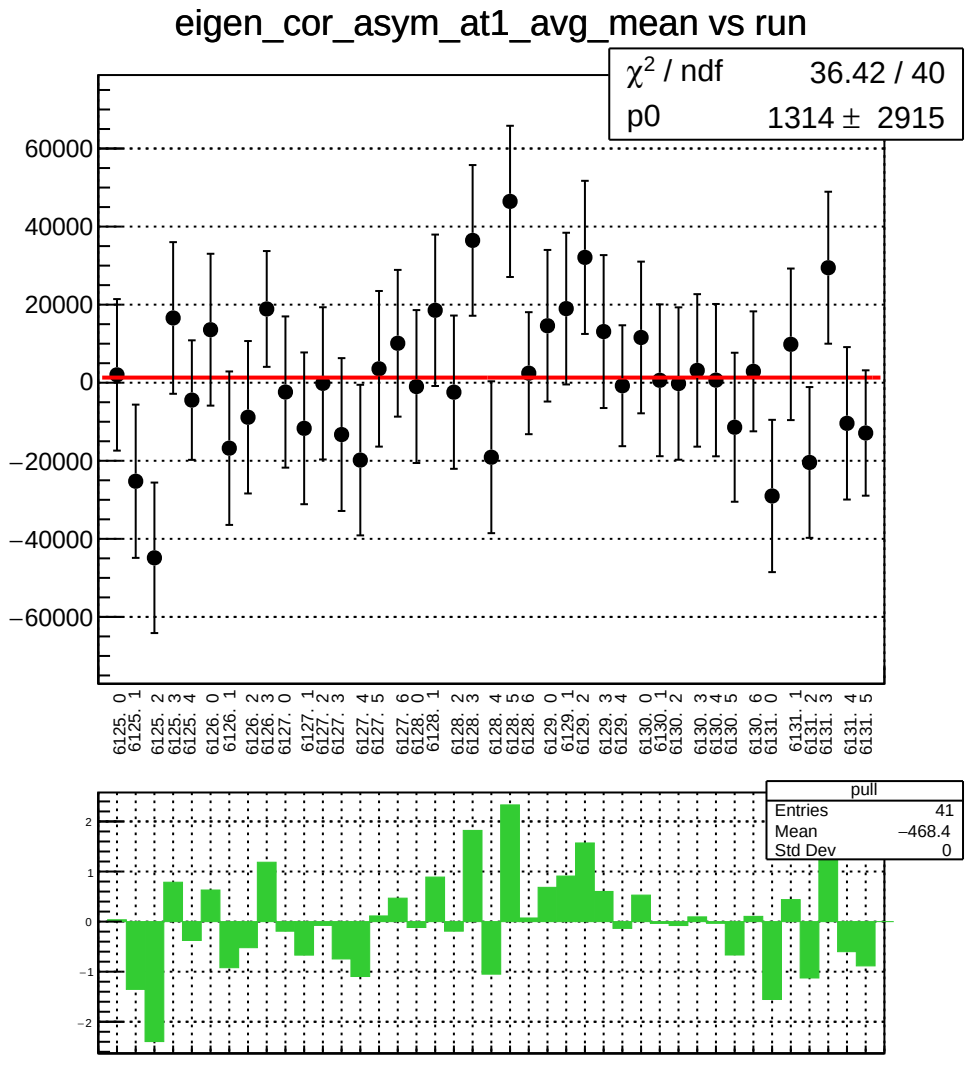
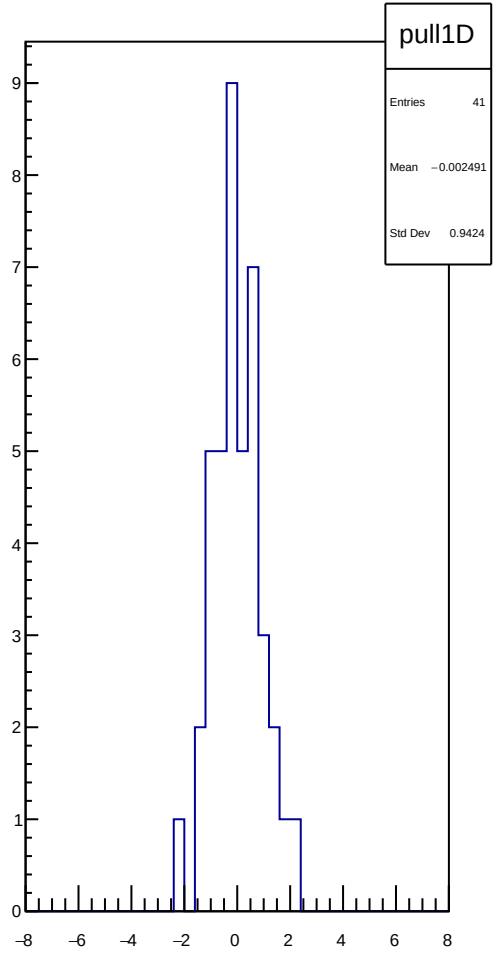
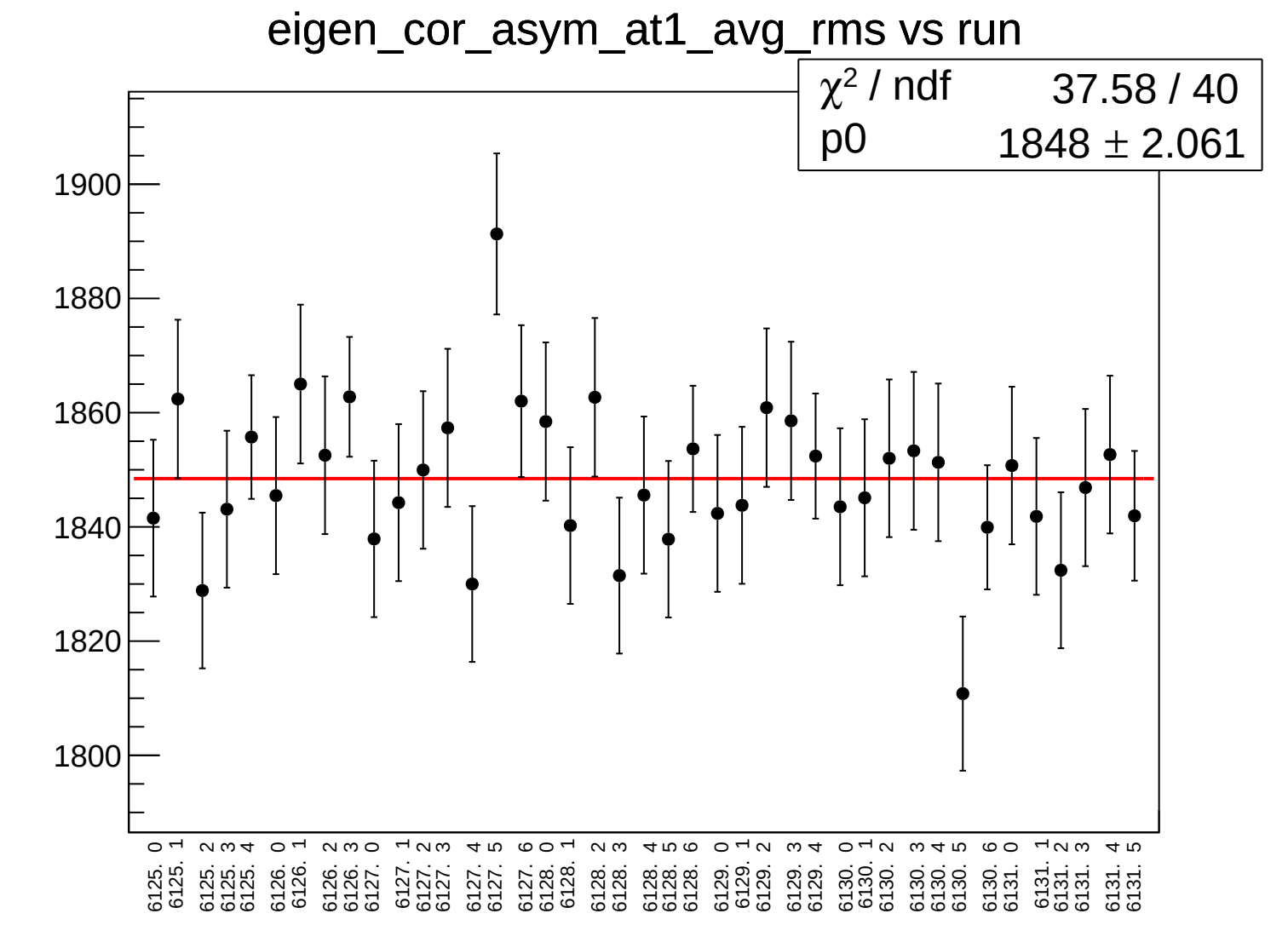
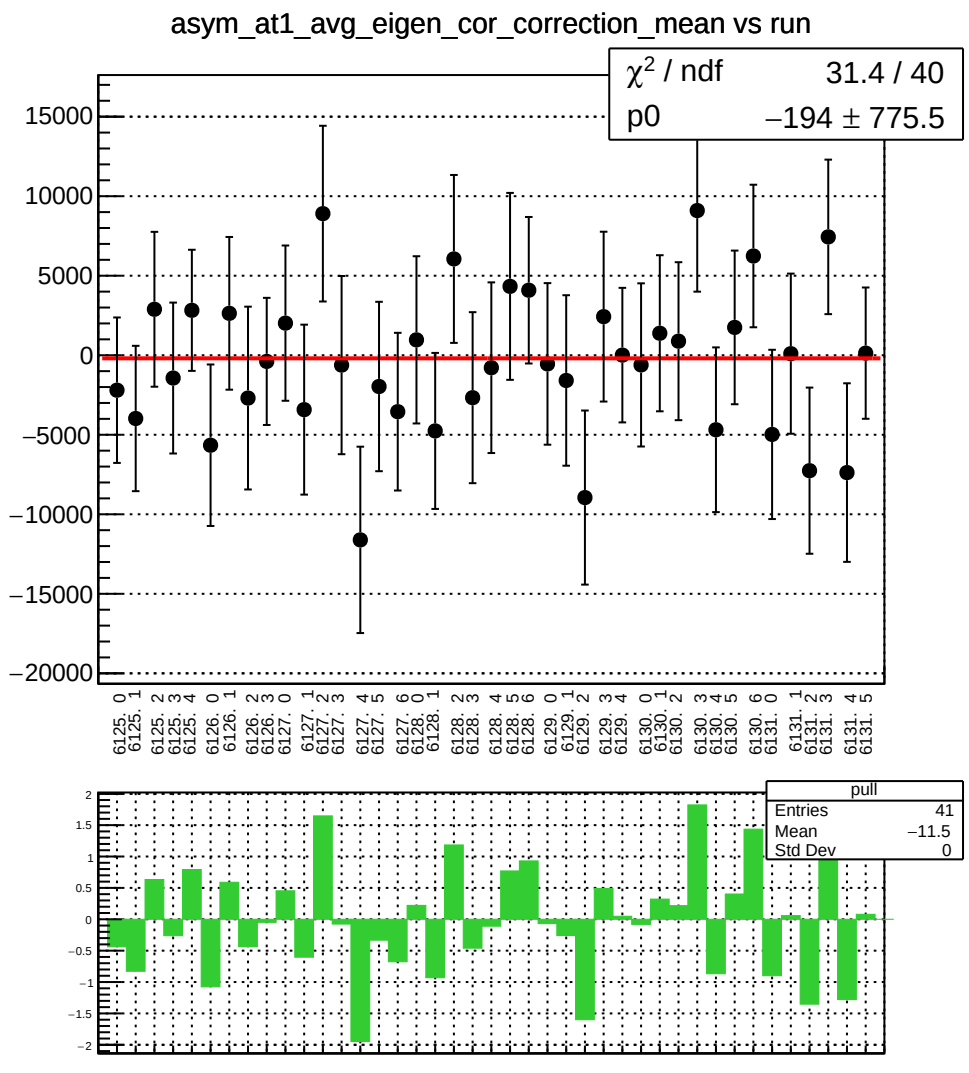
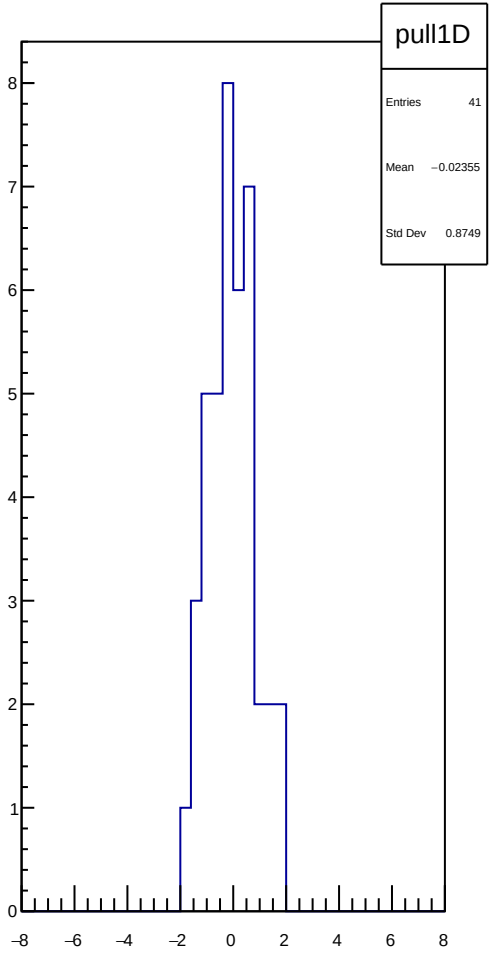
6131. 4
6131. 5

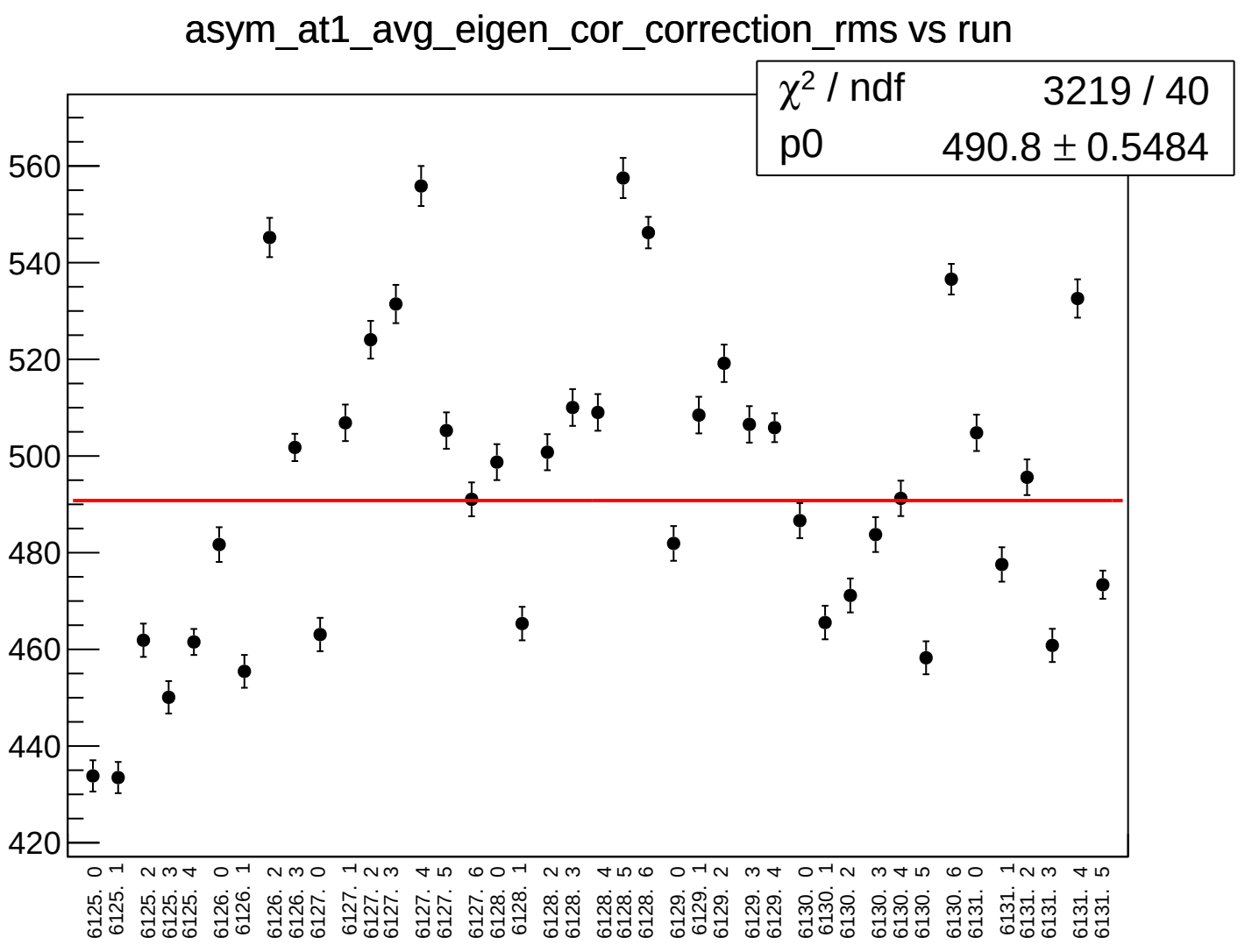

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 36.42 / 40
p0 1314 ± 2915
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −468.4
Std Dev 0
2
1
0
−1
−2

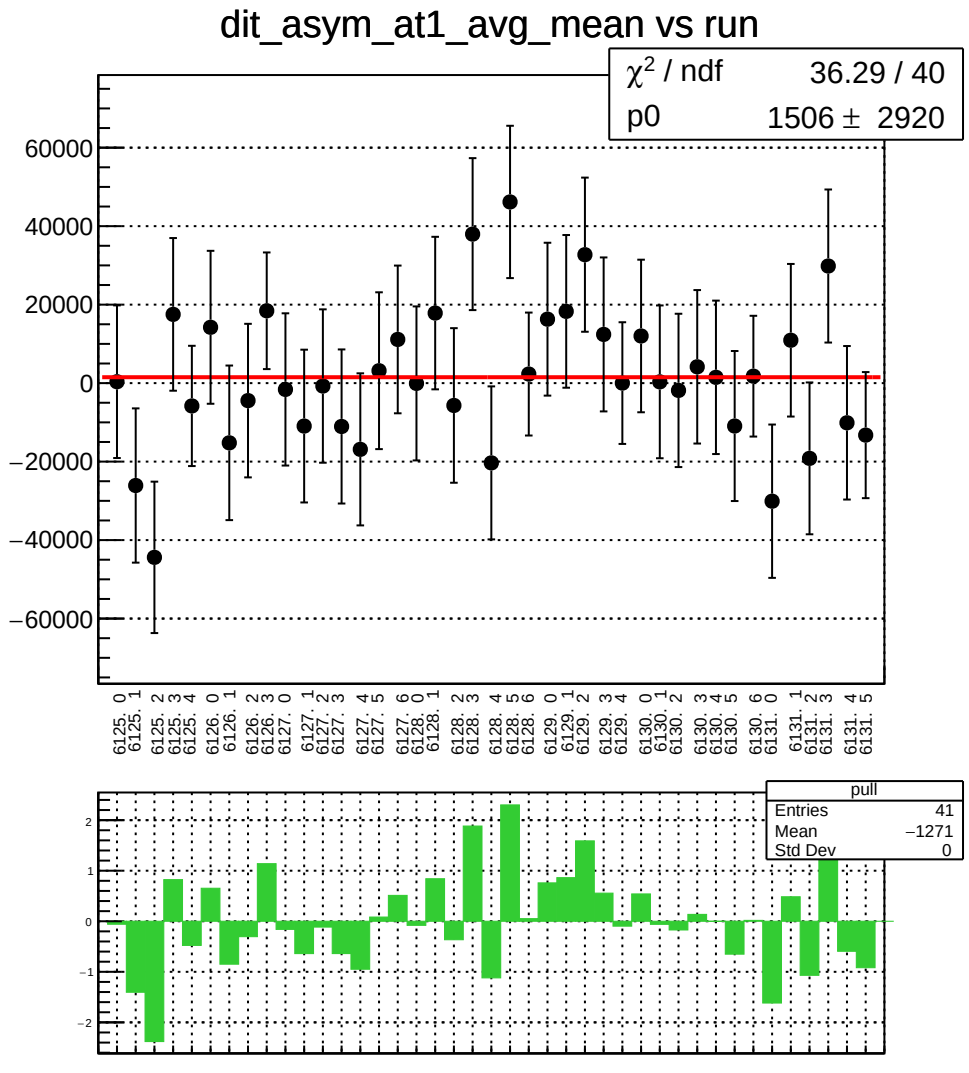

pull1D
Entries 41
Mean −0.002491
Std Dev 0.9424
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

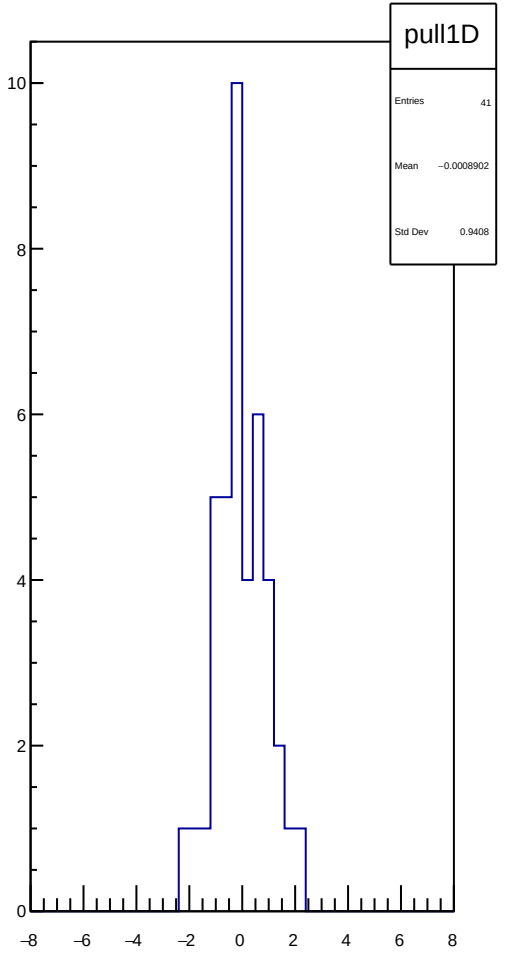

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 37.58 / 40
p0 1848 ± 2.061
1900
1880
1860
1840
1820
1800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

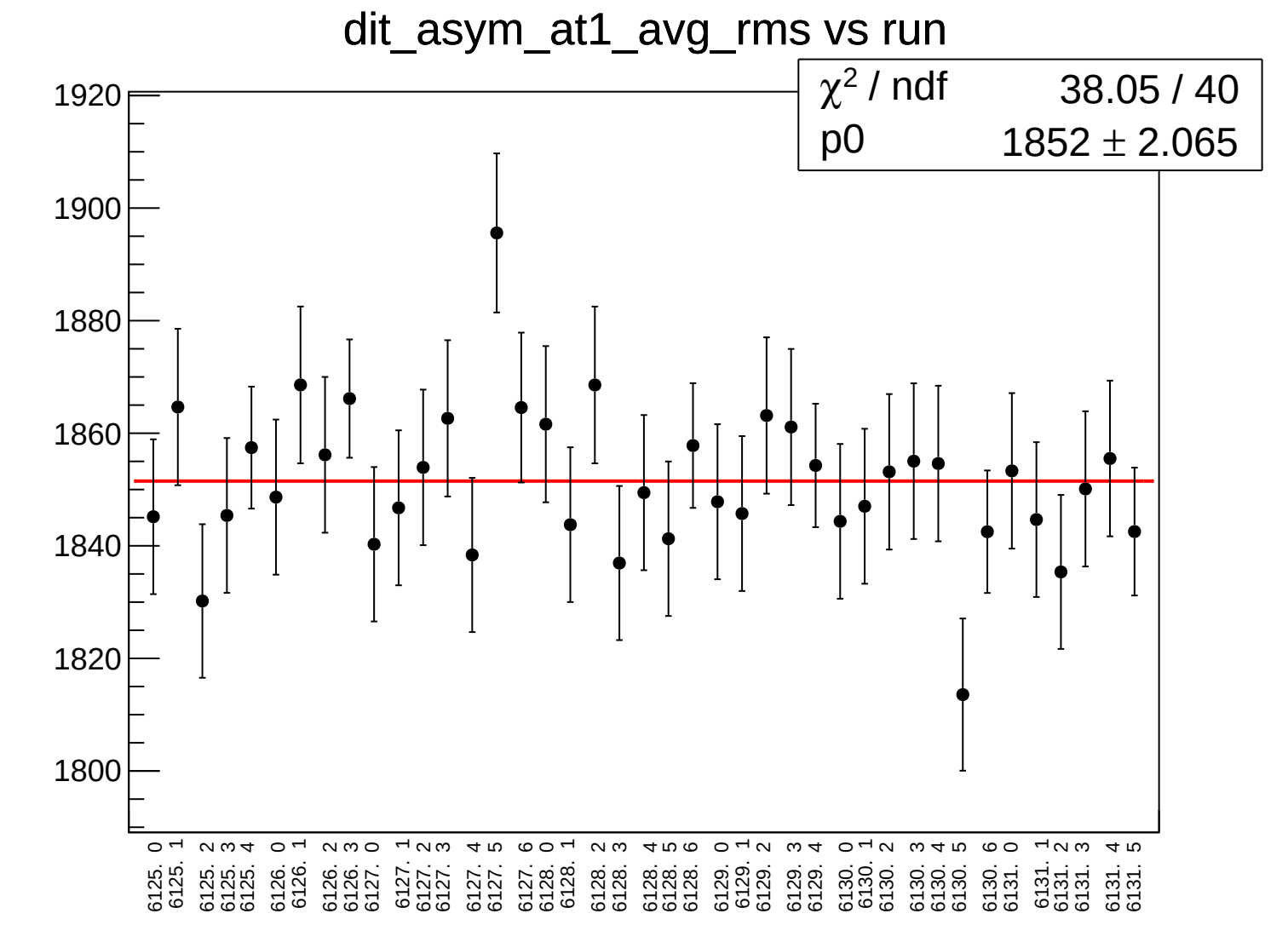

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 31.4 / 40
p0 −194 ± 775.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −11.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

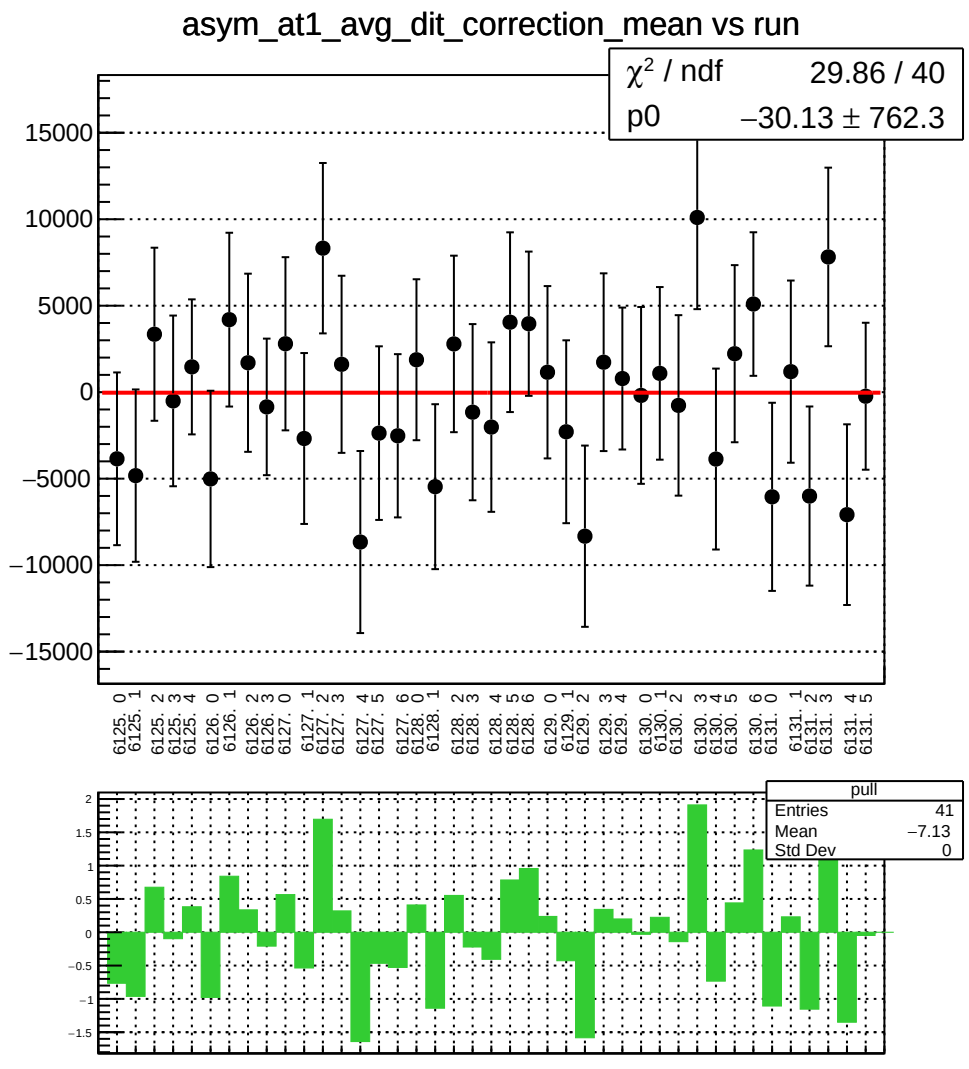

pull1D
Entries 41
Mean −0.02355
Std Dev 0.8749
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

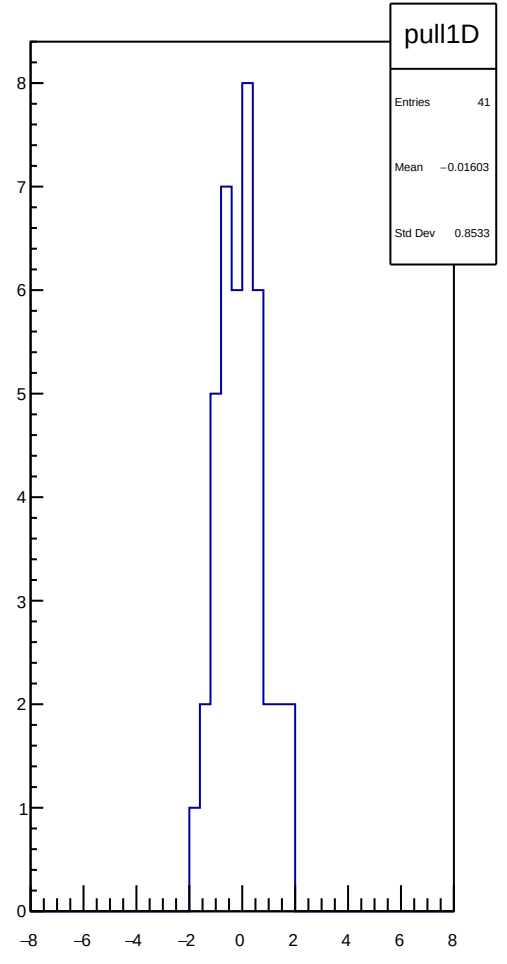

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 3219 / 40
p0 490.8 ± 0.5484
560
540
520
500
480
460
440
420
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

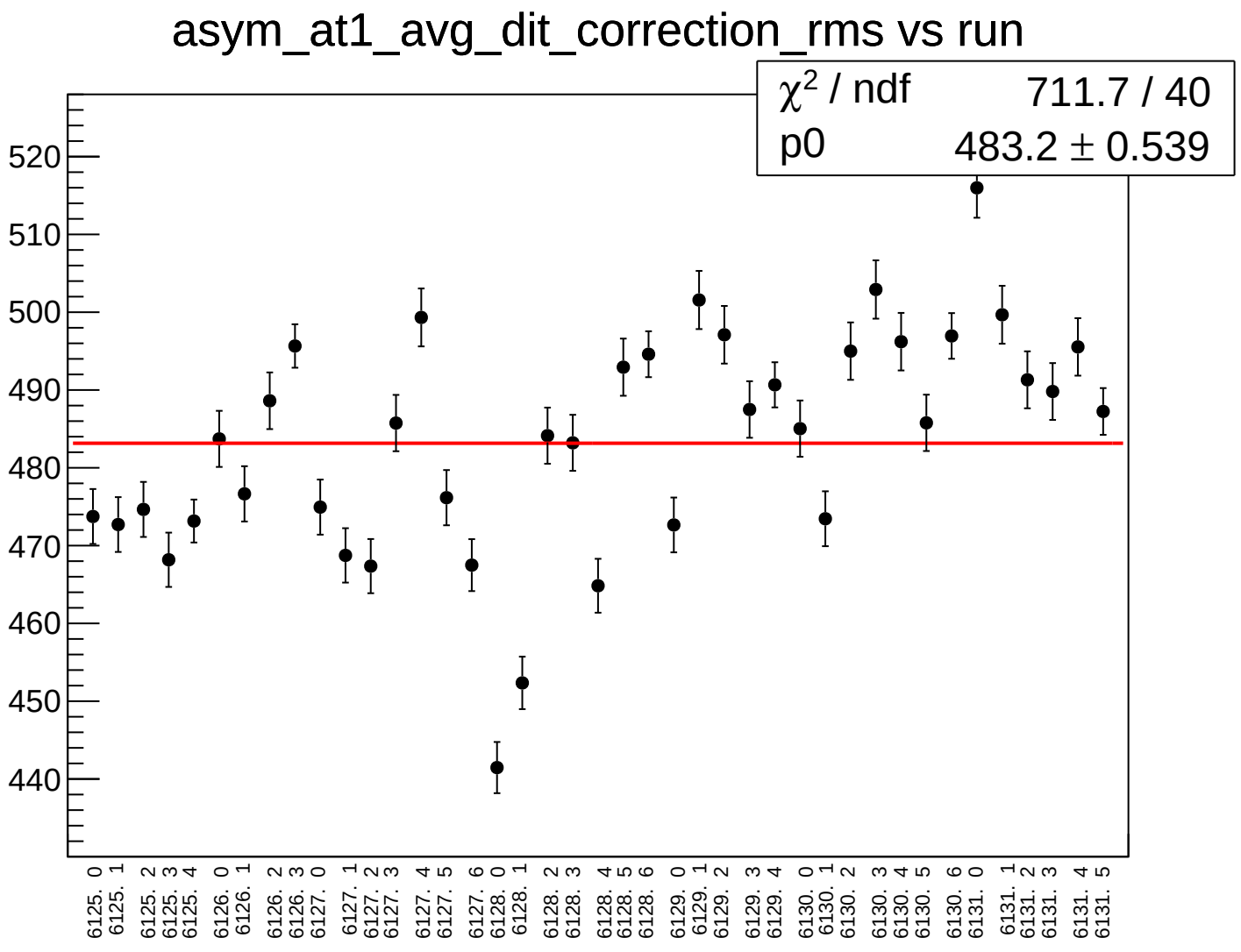

dit_asym_at1_avg_mean vs run
χ² / ndf 36.29 / 40
p0 1506 ± 2920
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1271
Std Dev 0
2
1
0
−1
−2

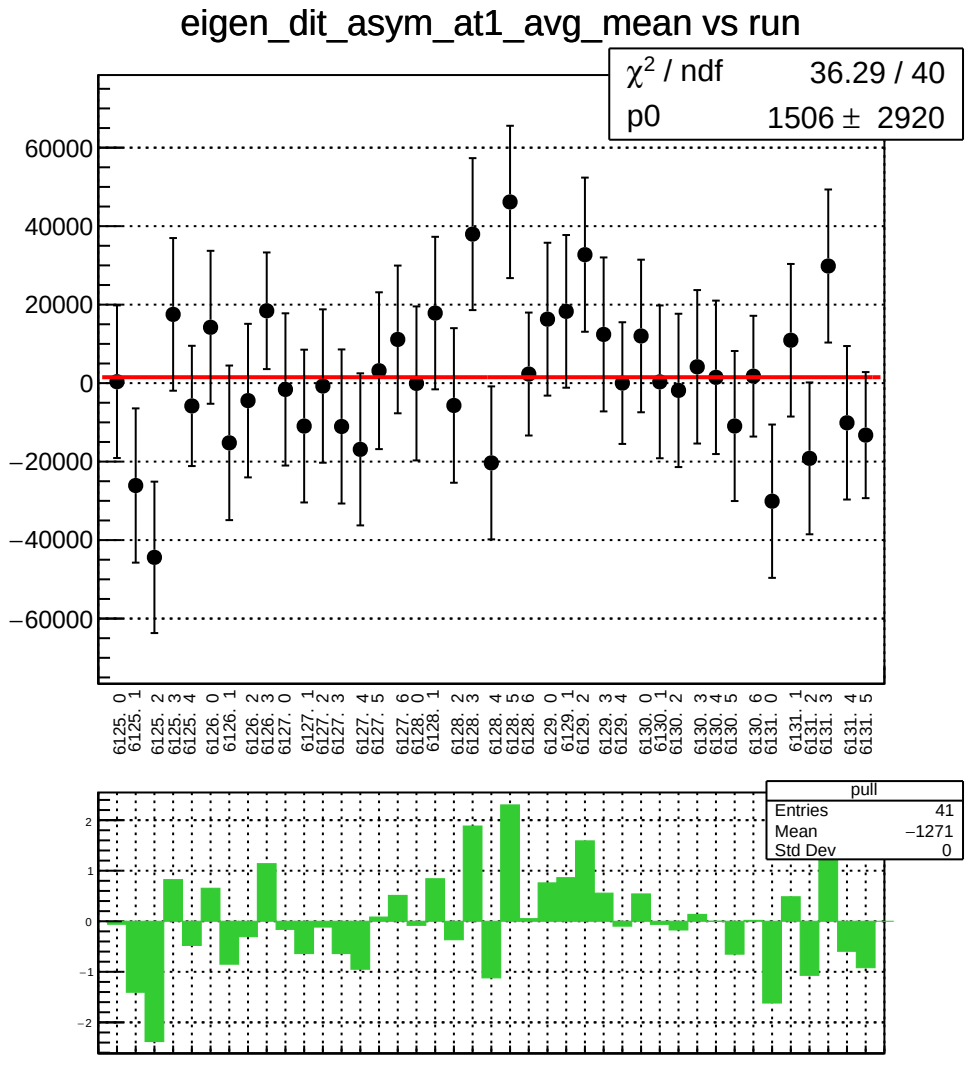

pull1D
Entries 41
Mean −0.0008902
Std Dev 0.9408
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

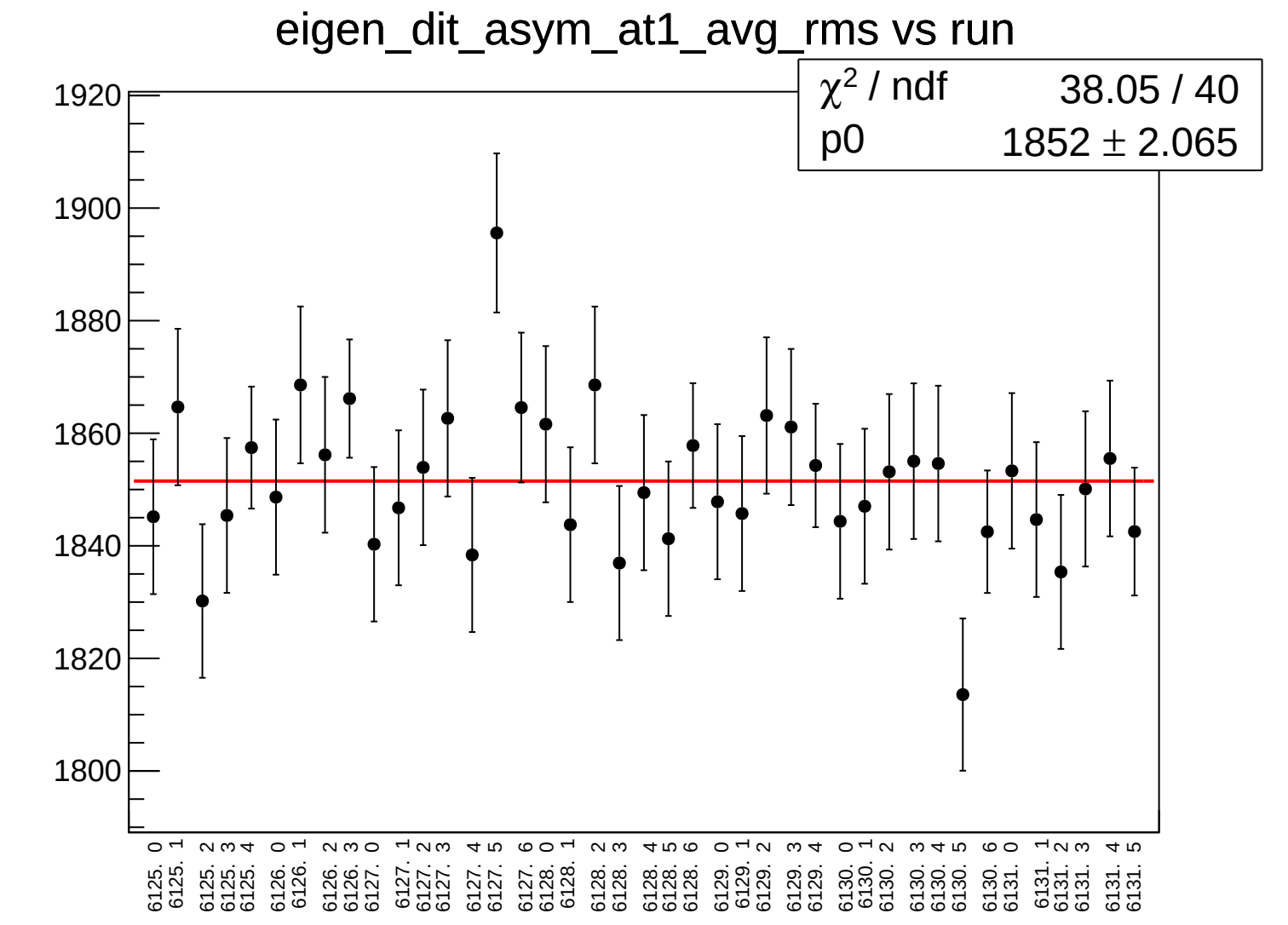

dit_asym_at1_avg_rms vs run
χ² / ndf 38.05 / 40
p0 1852 ± 2.065
1920
1900
1880
1860
1840
1820
1800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

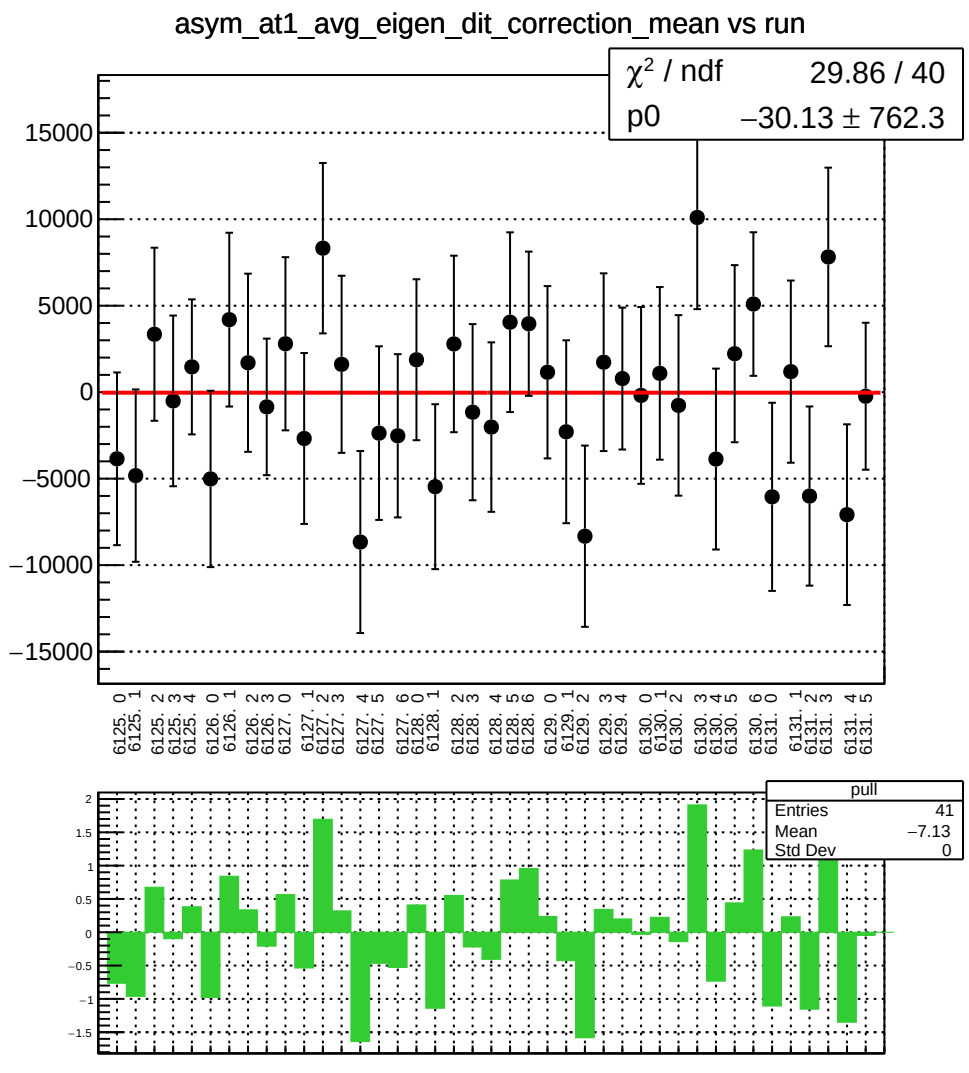

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 29.86 / 40
p0 −30.13 ± 762.3
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −7.13
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

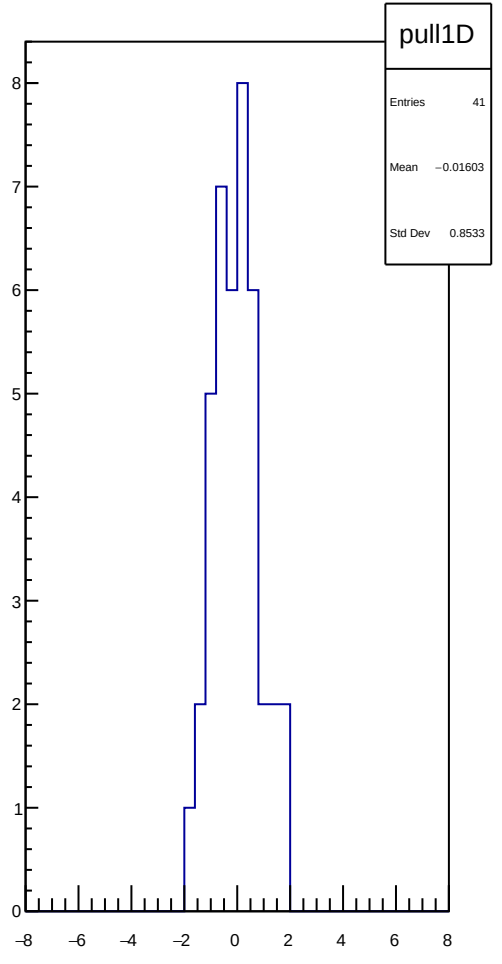

pull1D
Entries 41
Mean −0.01603
Std Dev 0.8533
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

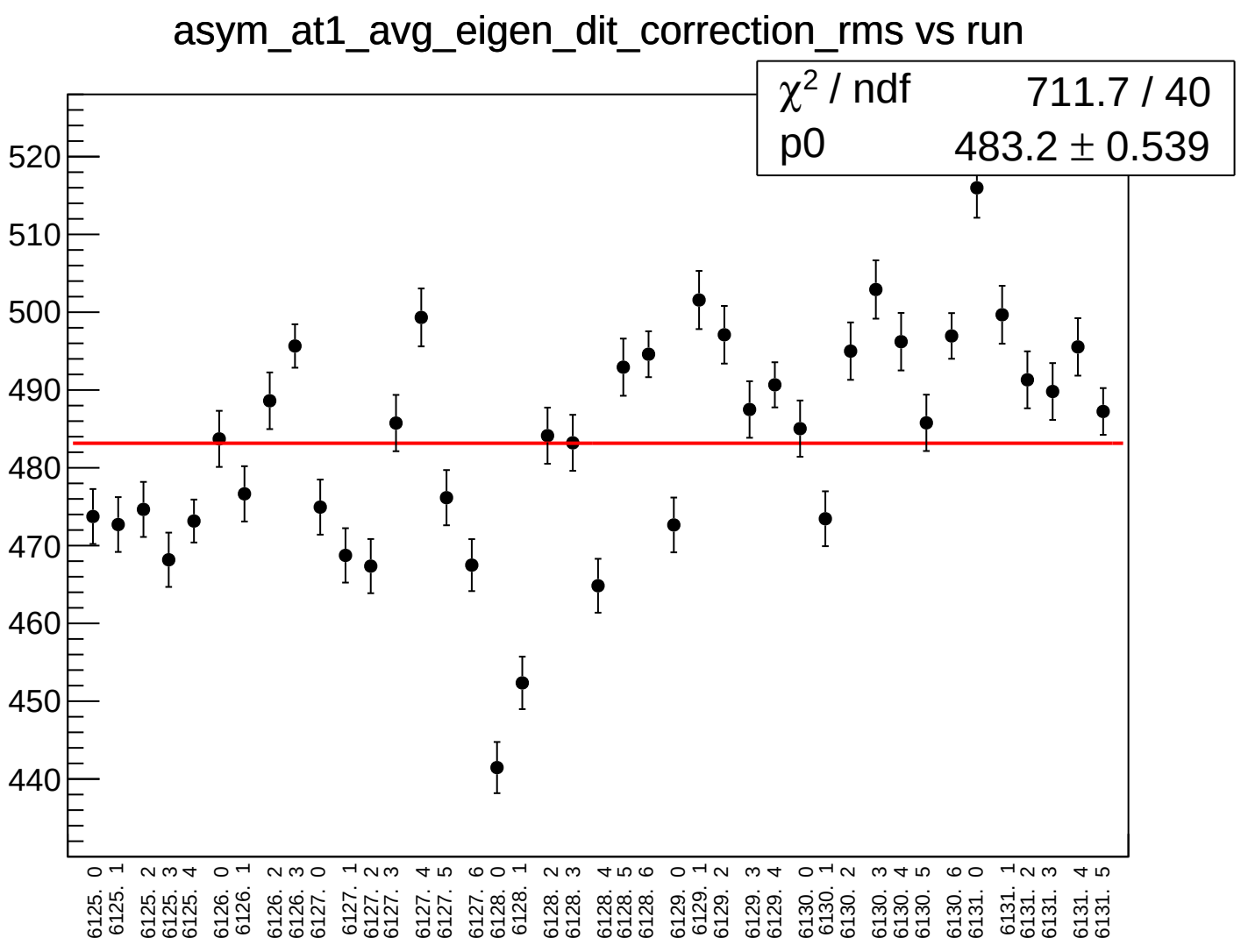

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 711.7 / 40
p0 483.2 ± 0.539
520
510
500
490
480
470
460
450
440
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

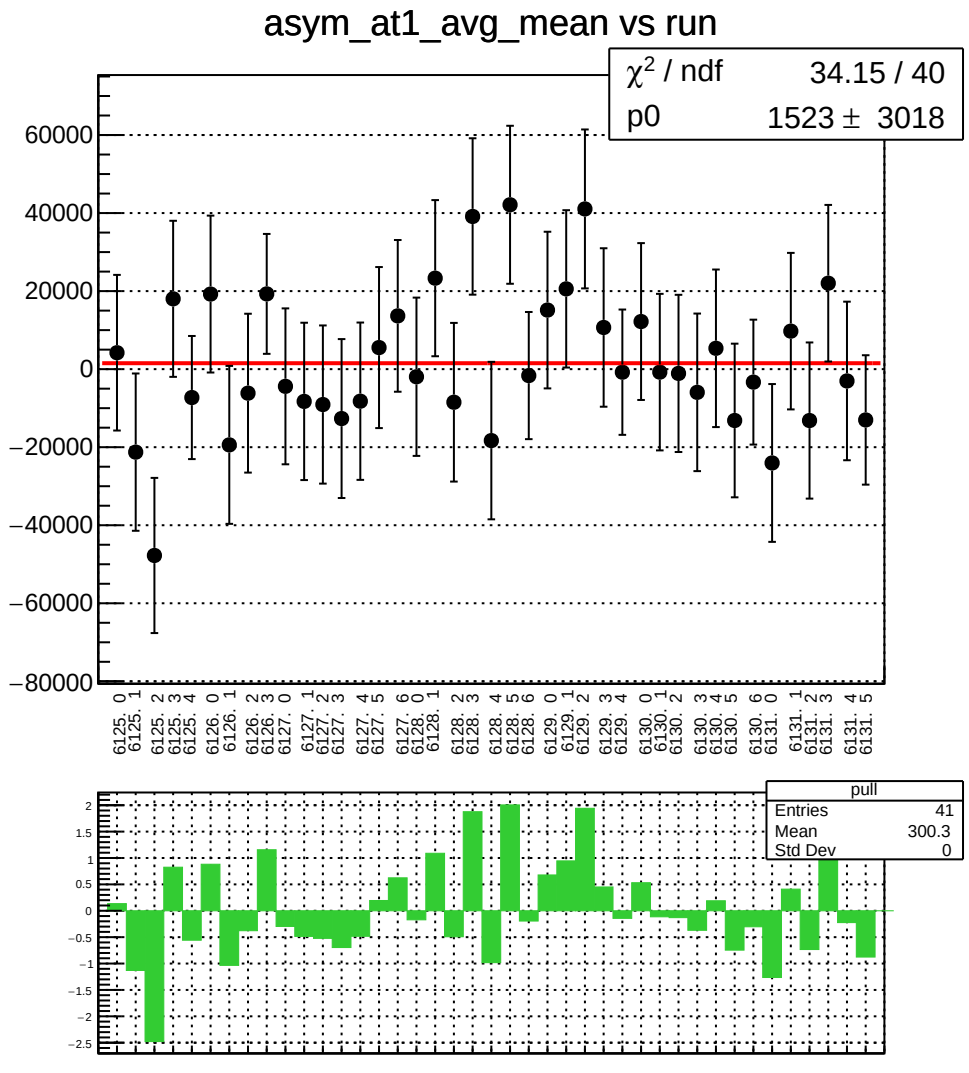

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 36.29 / 40
p0 1506 ± 2920
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1271
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.0008902
Std Dev 0.9408
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

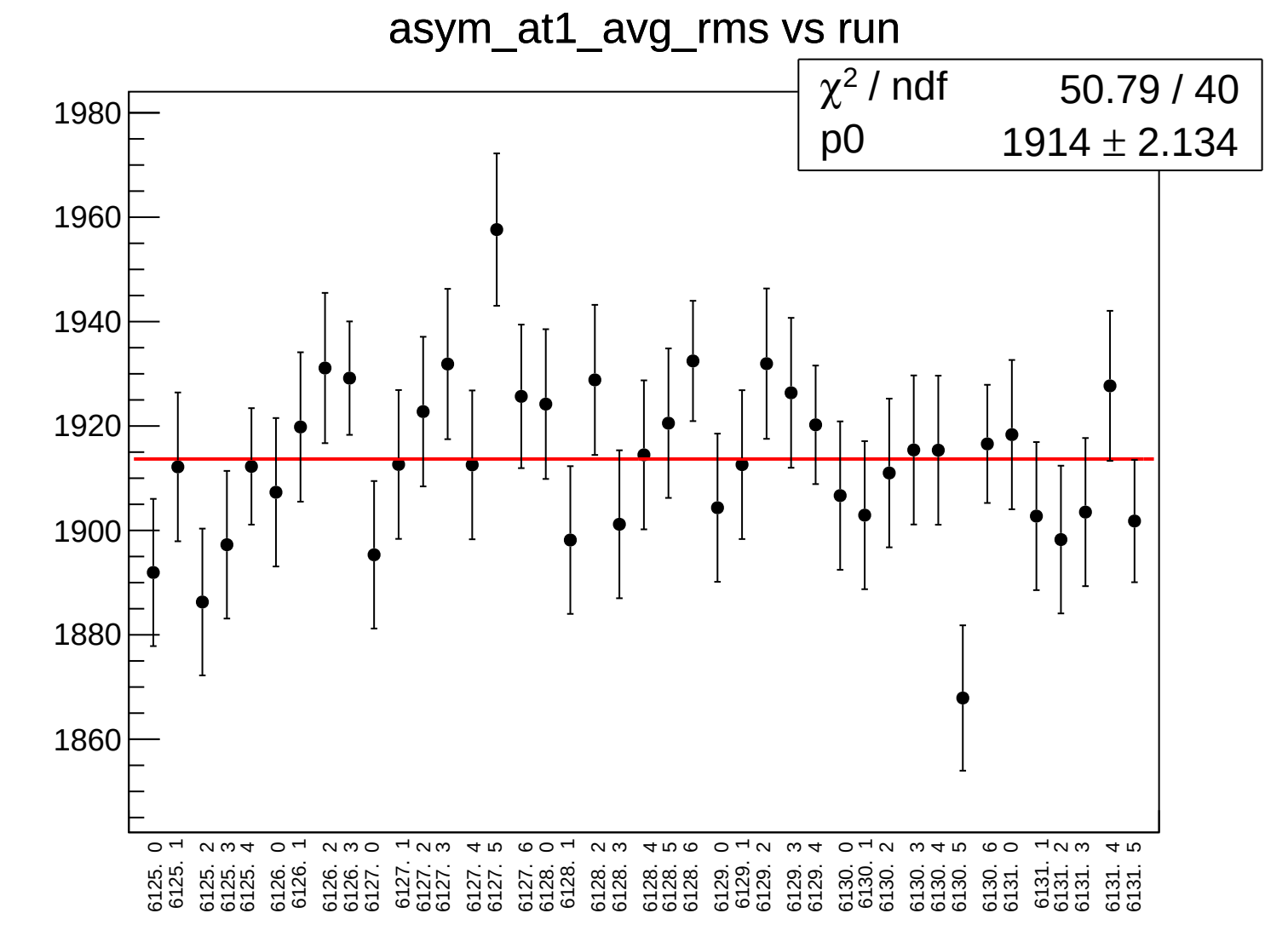

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 38.05 / 40
p0 1852 ± 2.065
1920
1900
1880
1860
1840
1820
1800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

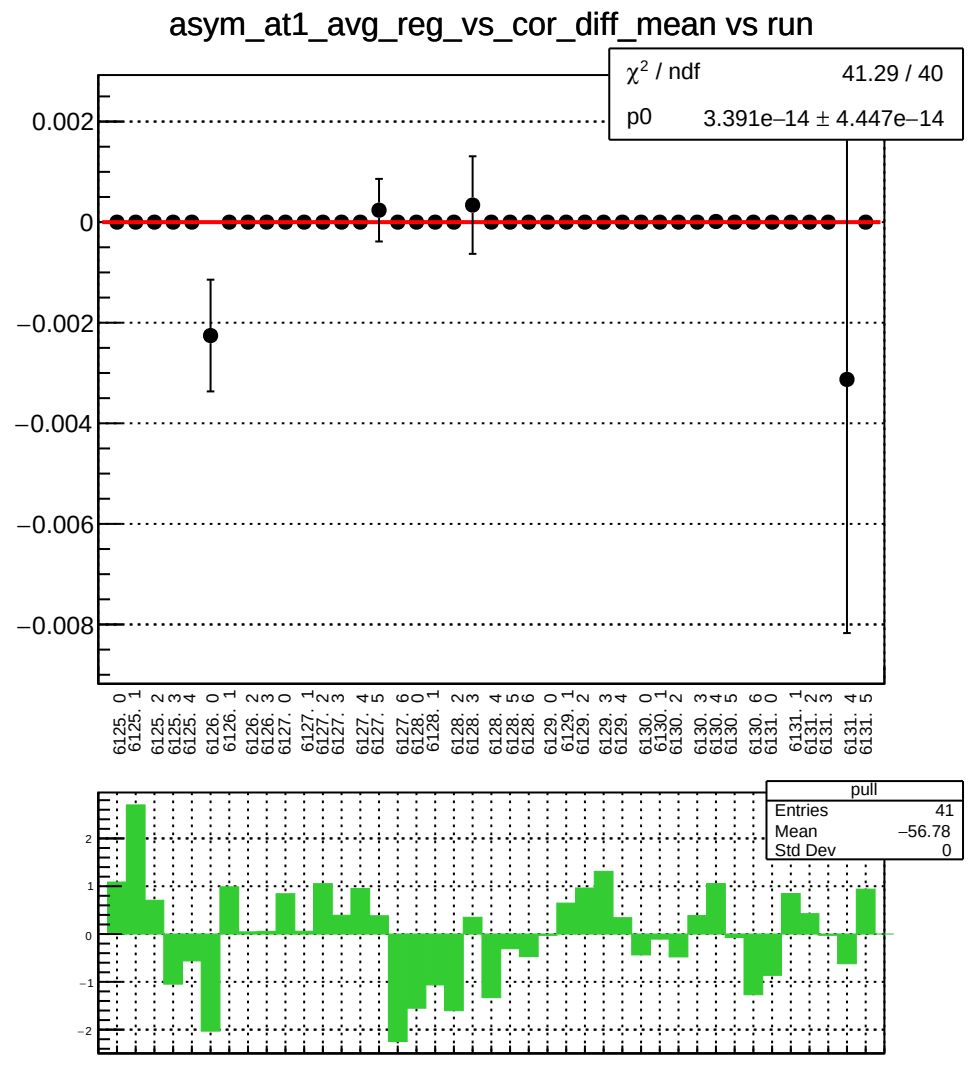

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 29.86 / 40
p0 −30.13 ± 762.3
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −7.13
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

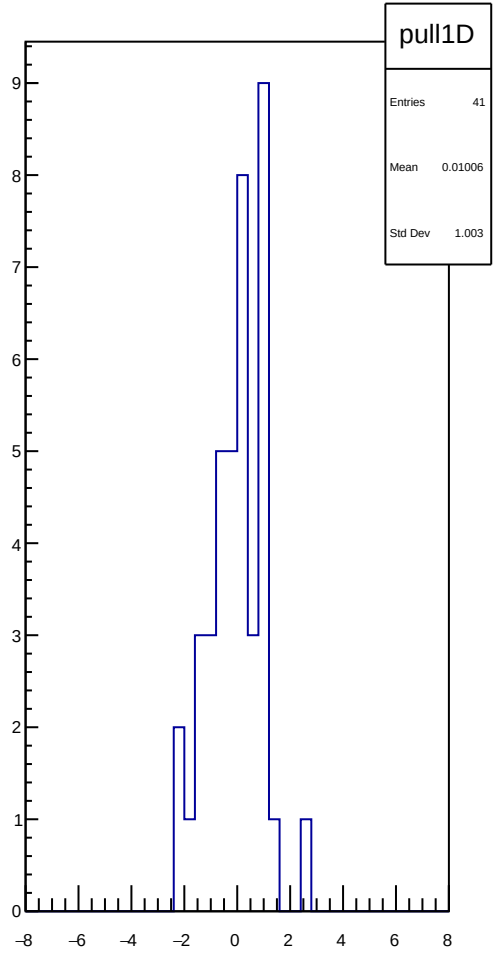

pull1D
Entries 41
Mean −0.01603
Std Dev 0.8533
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

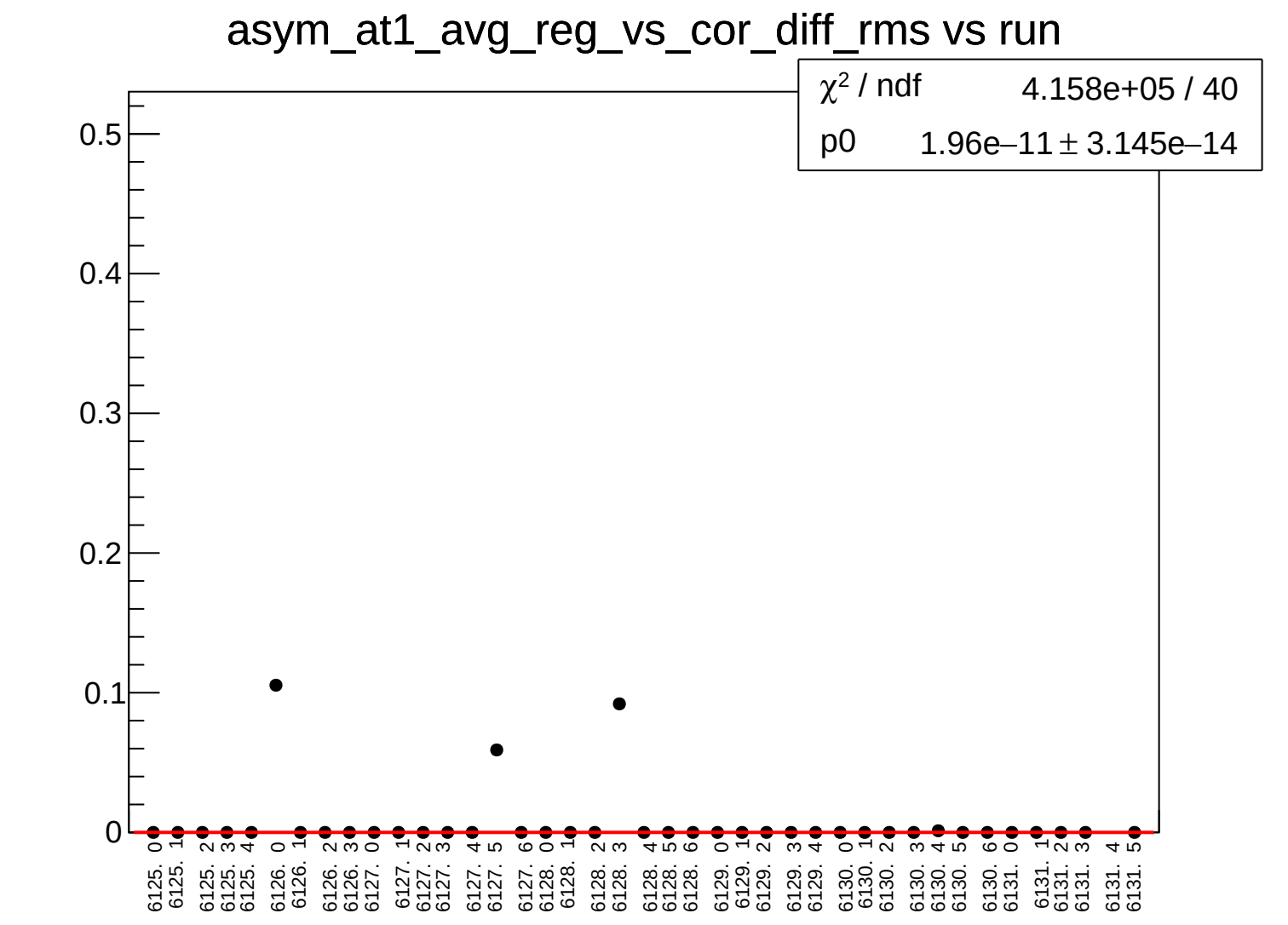

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 711.7 / 40
p0 483.2 ± 0.539
520
510
500
490
480
470
460
450
440
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

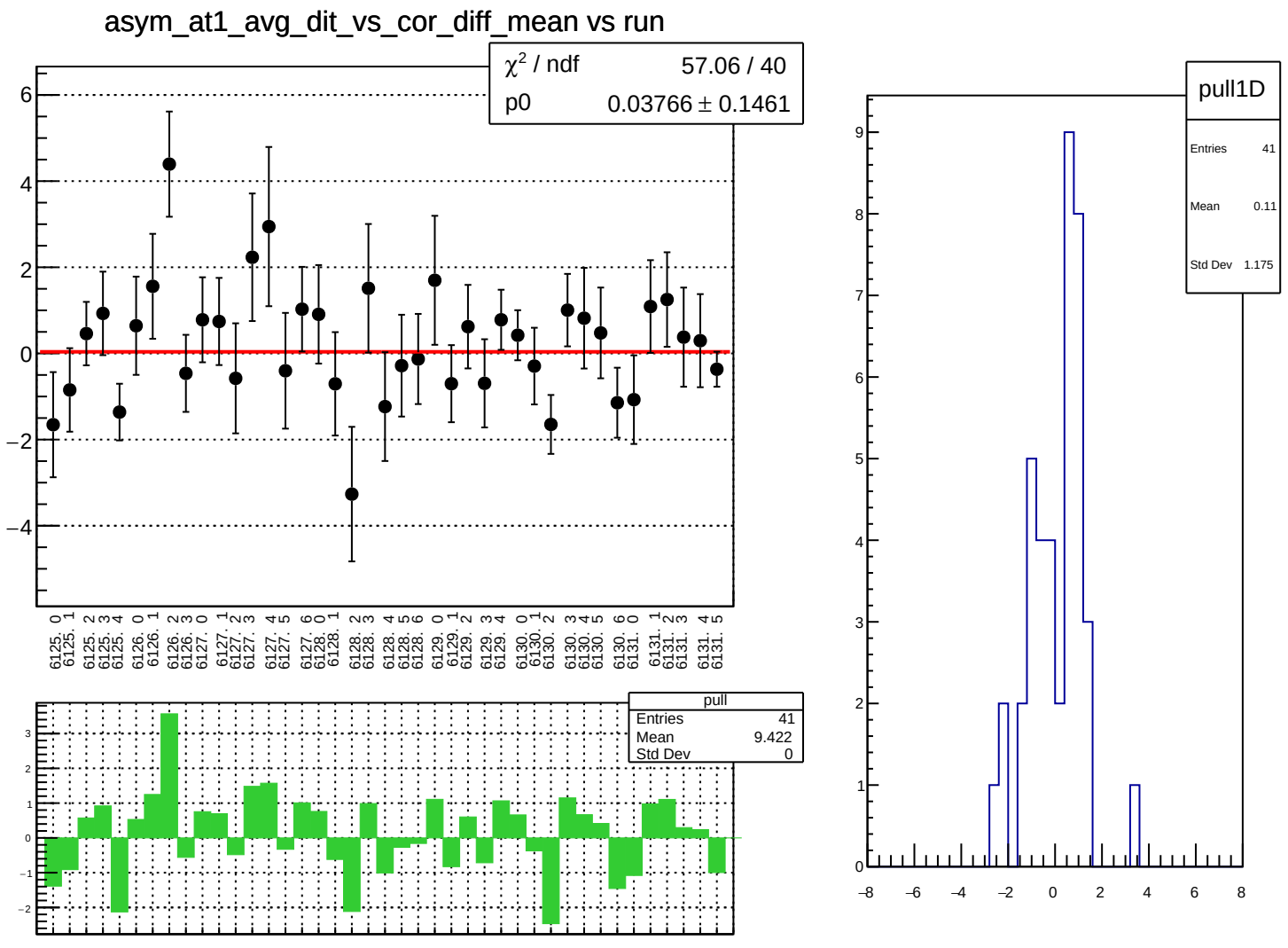

asym_at1_avg_mean vs run
χ² / ndf 34.15 / 40
p0 1523 ± 3018
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 300.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean 0.003604
Std Dev 0.9126
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

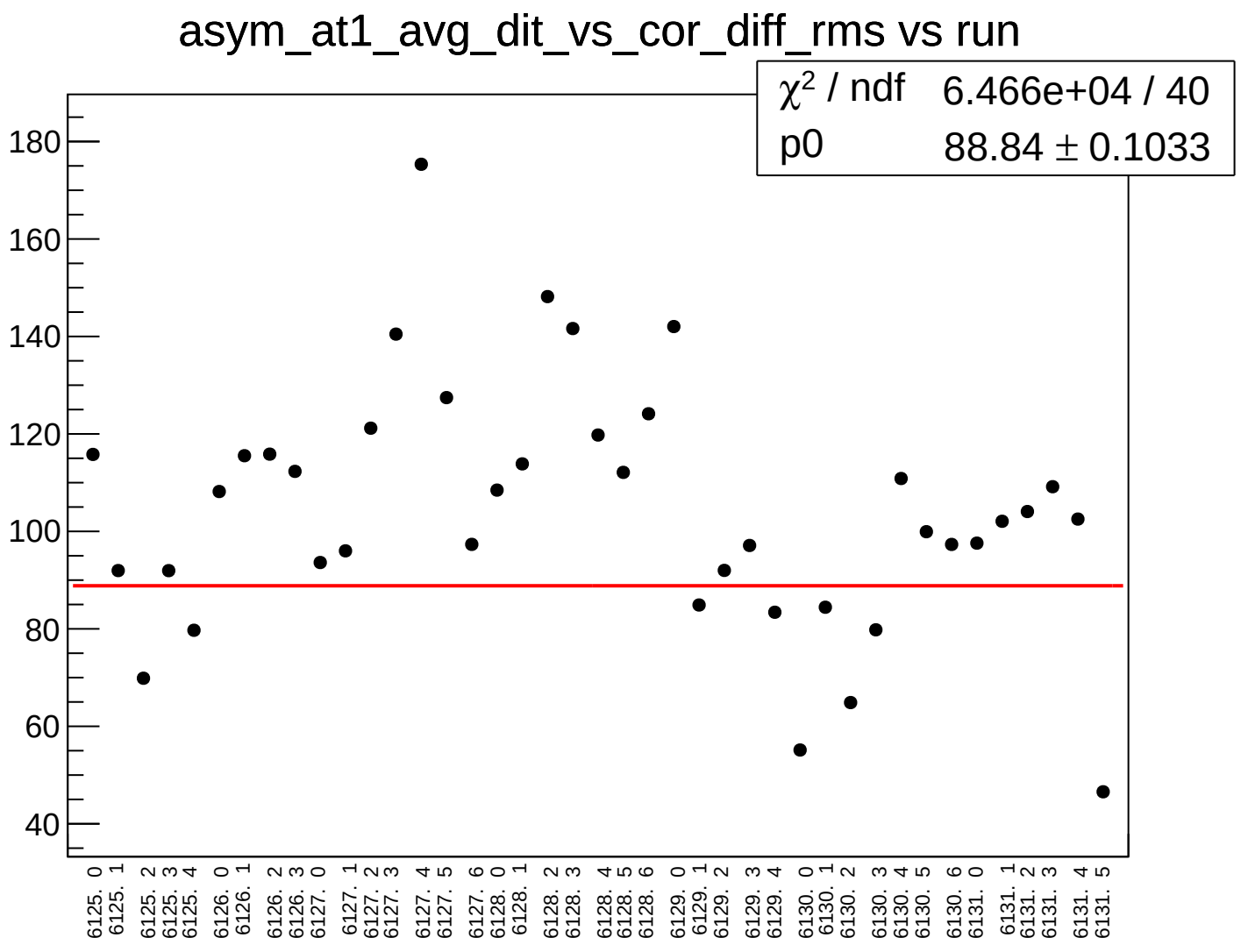

asym_at1_avg_rms vs run
χ² / ndf 50.79 / 40
p0 1914 ± 2.134
1980
1960
1940
1920
1900
1880
1860
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

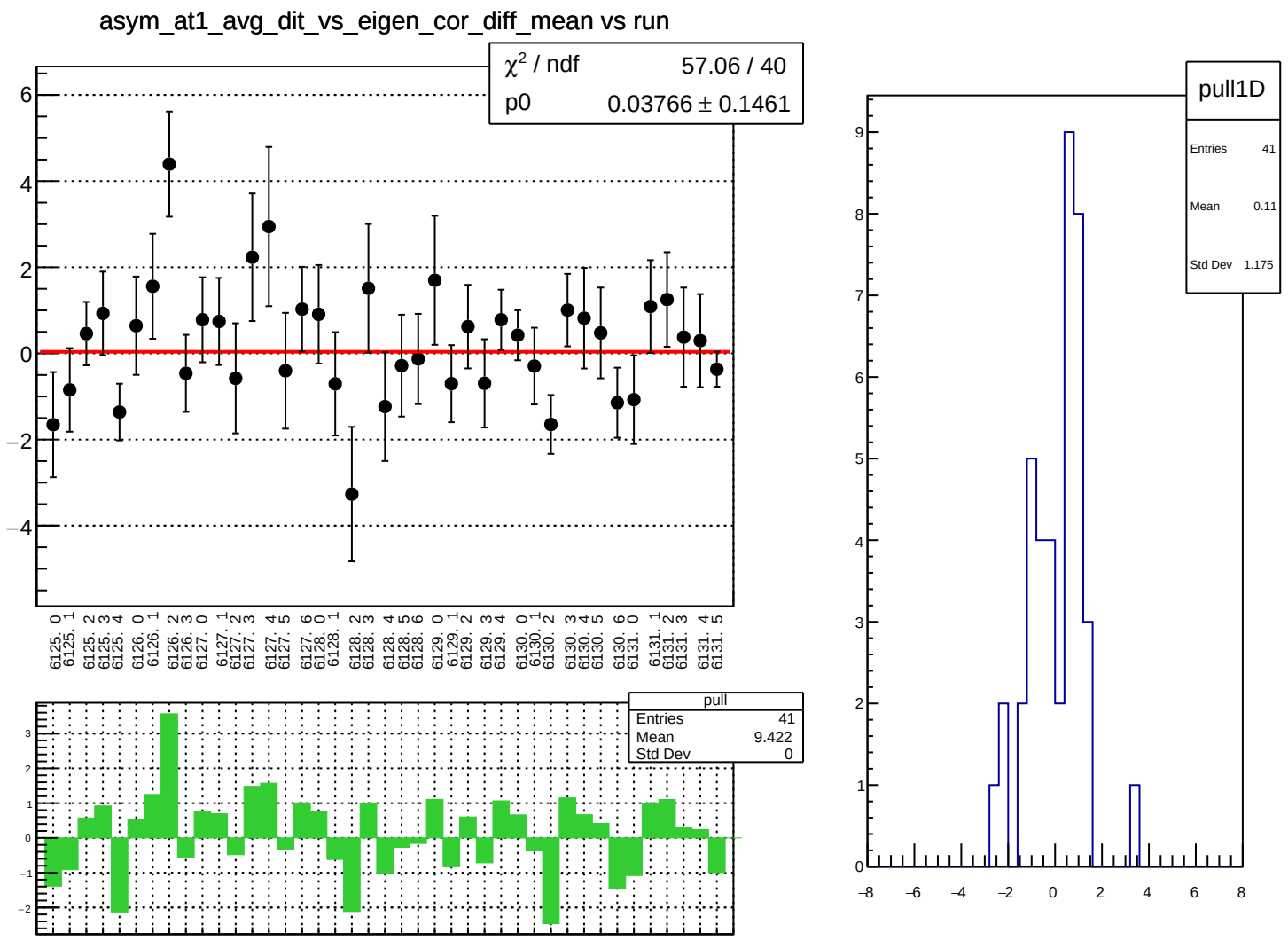

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 41.29 / 40
p0 3.391e−14 ± 4.447e−14
0.002
0
−0.002
−0.004
−0.006
−0.008
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −56.78
Std Dev 0
2
1
0
−1
−2

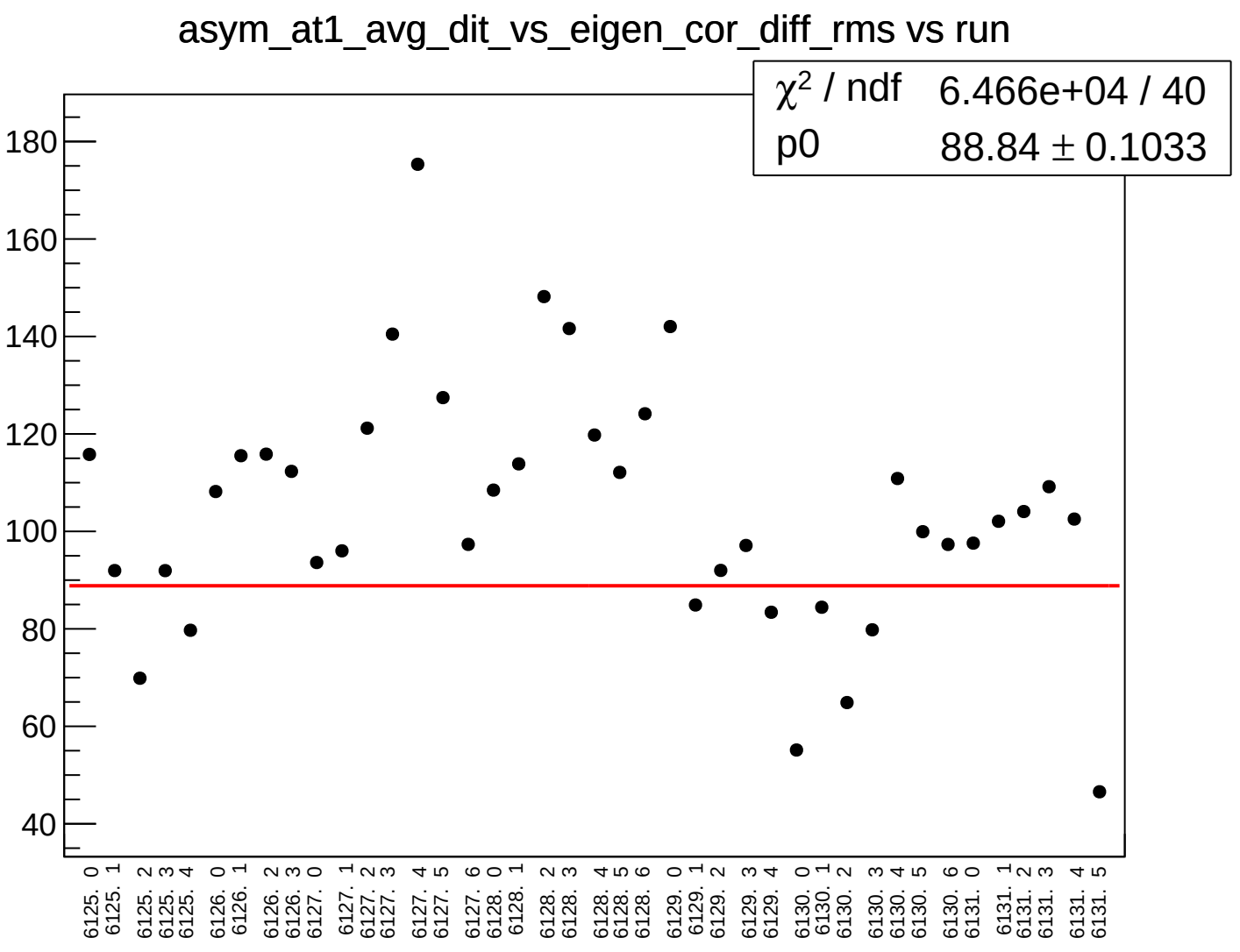

pull1D
Entries 41
Mean 0.01006
Std Dev 1.003
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

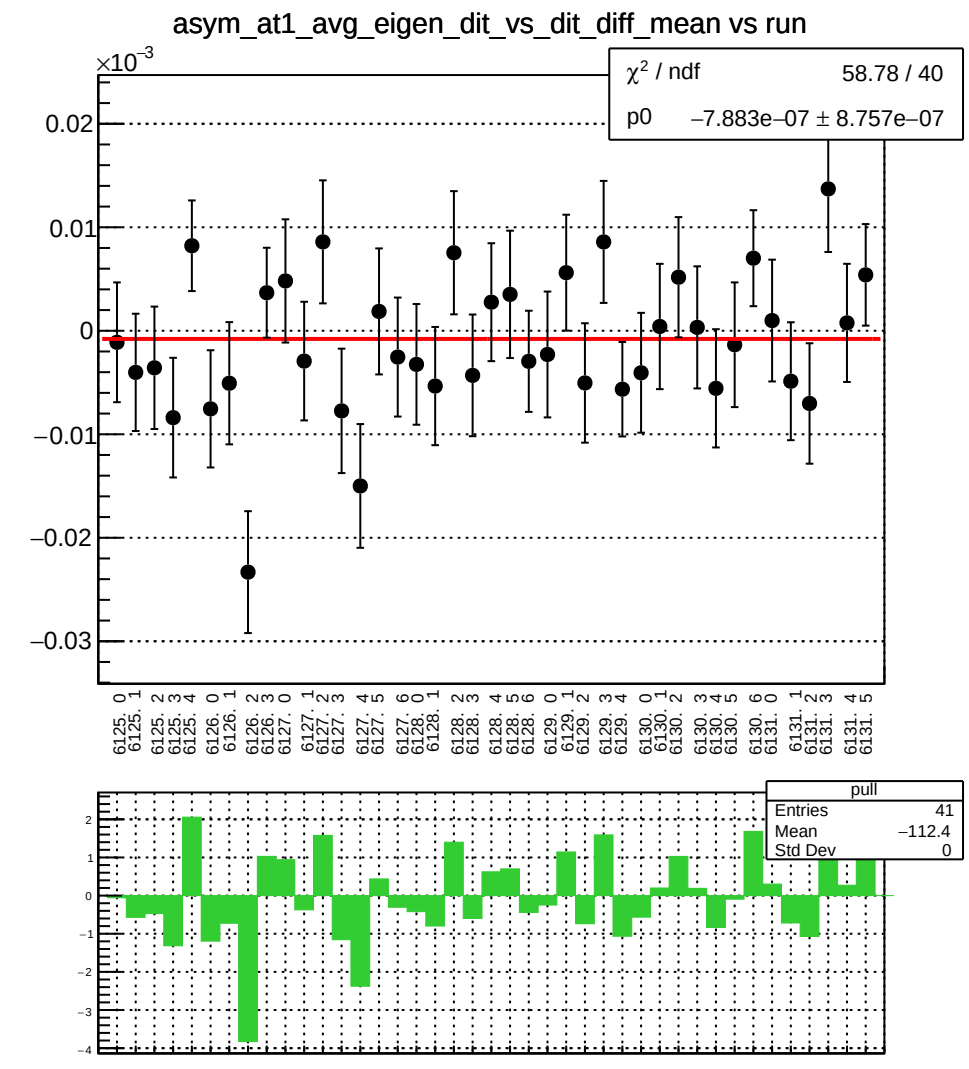

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.158e+05 / 40
p0 1.96e−11 ± 3.145e−14
0.5
0.4
0.3
0.2
0.1
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

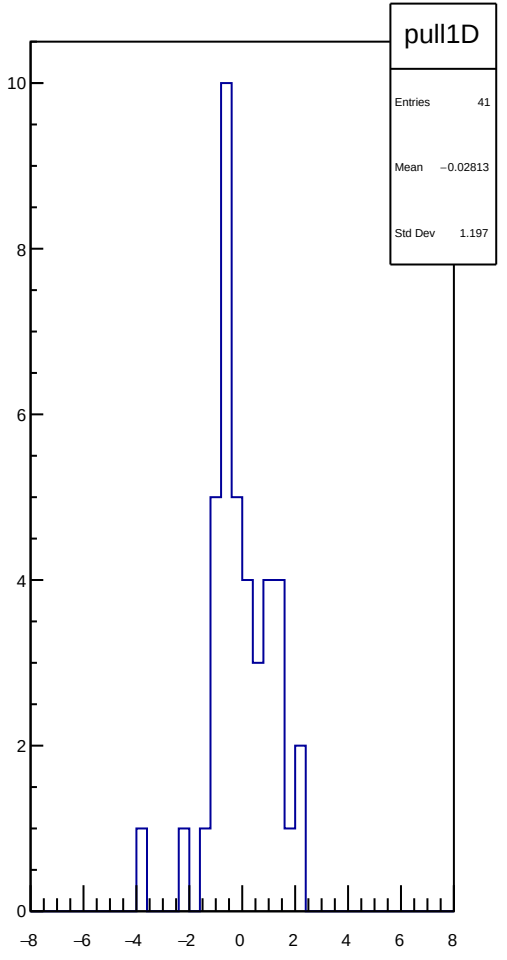

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 57.06 / 40
p0 0.03766 ± 0.1461
6
4
2
0
−2
−4
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 9.422
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.11
Std Dev 1.175
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

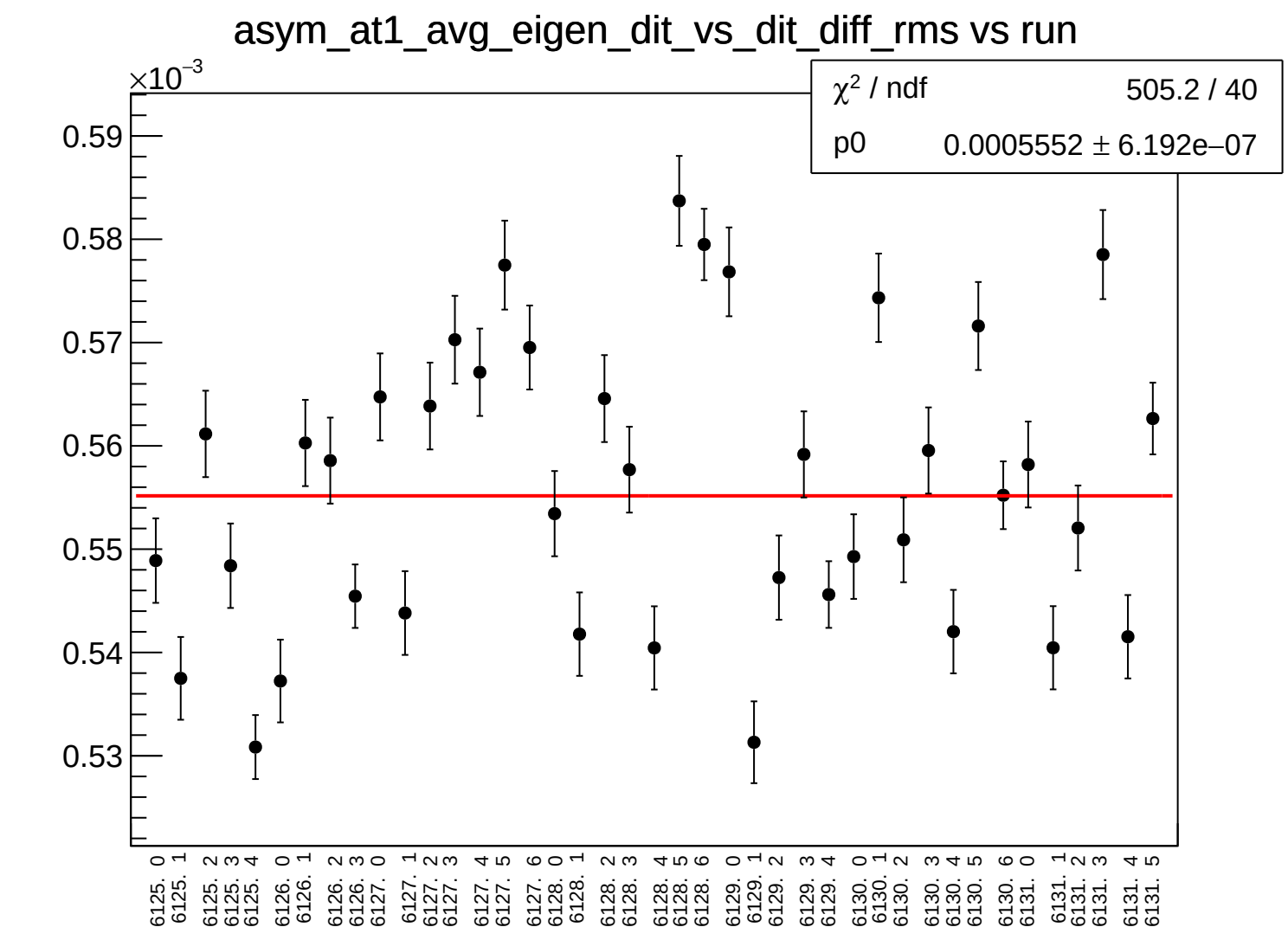

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.466e+04 / 40
p0 88.84 ± 0.1033
180
160
140
120
100
80
60
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

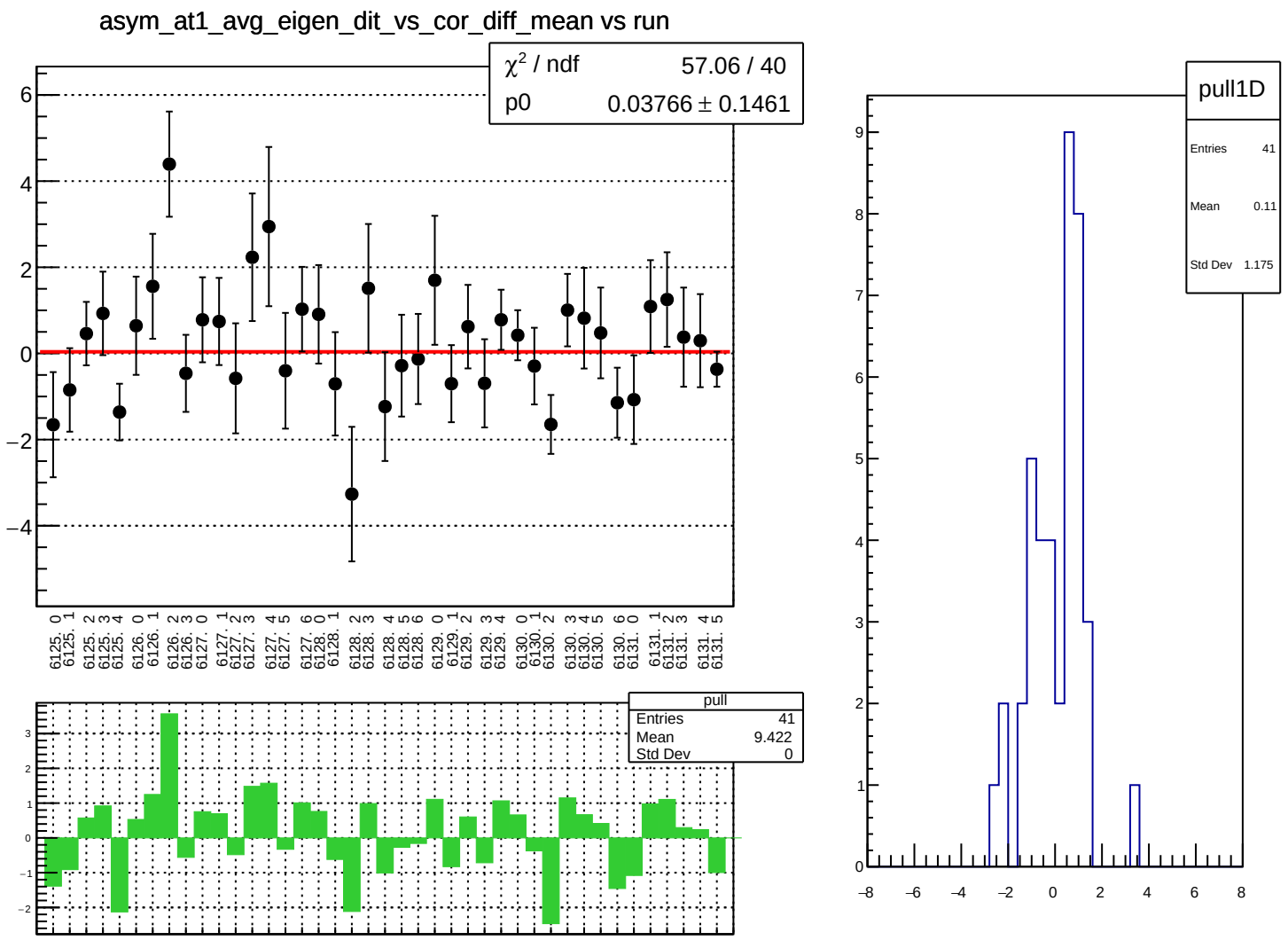

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.06 / 40
p0 0.03766 ± 0.1461
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 9.422
Std Dev 0
pull1D
Entries 41
Mean 0.11
Std Dev 1.175

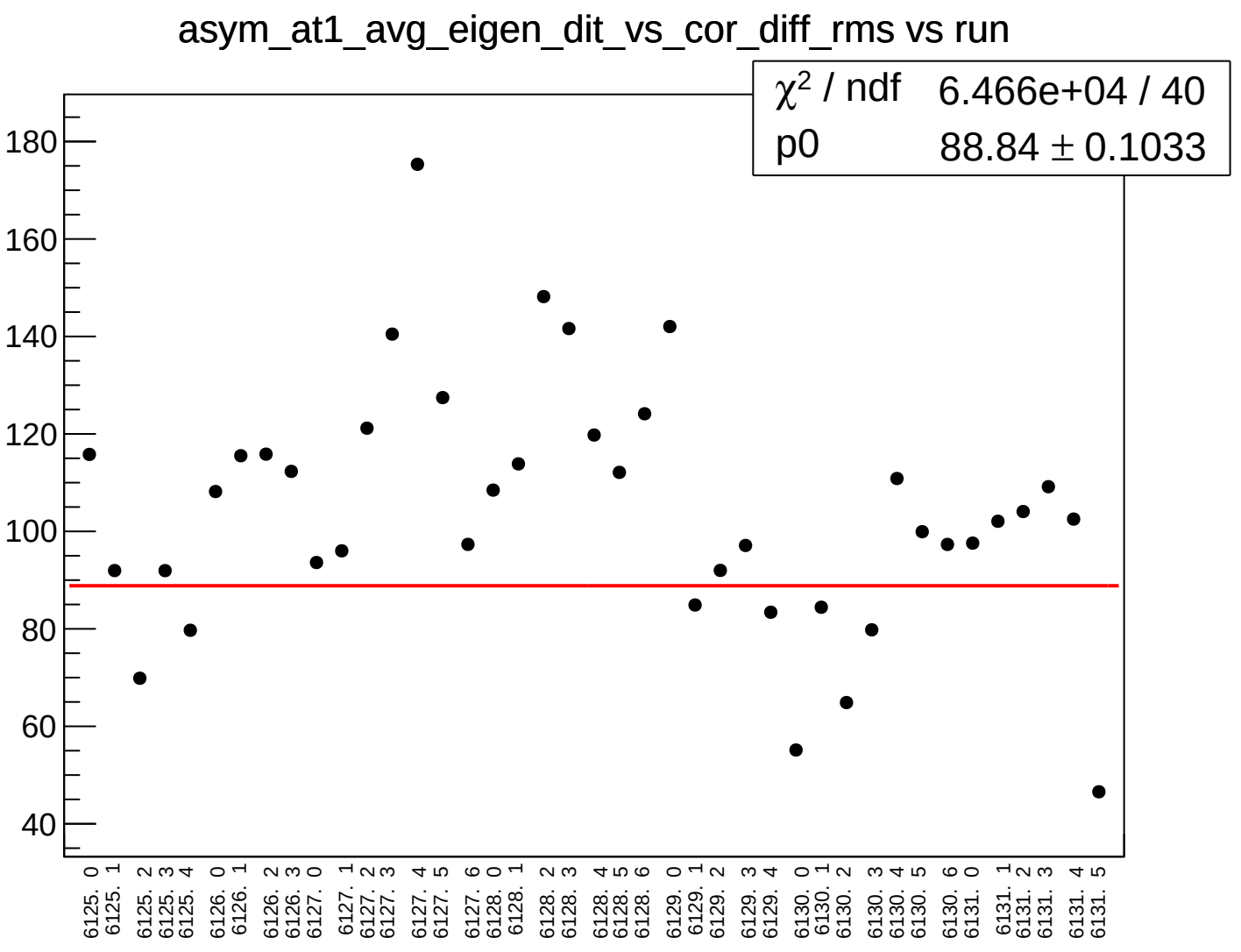

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.466e+04 / 40
p0 88.84 ± 0.1033
180
160
140
120
100
80
60
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

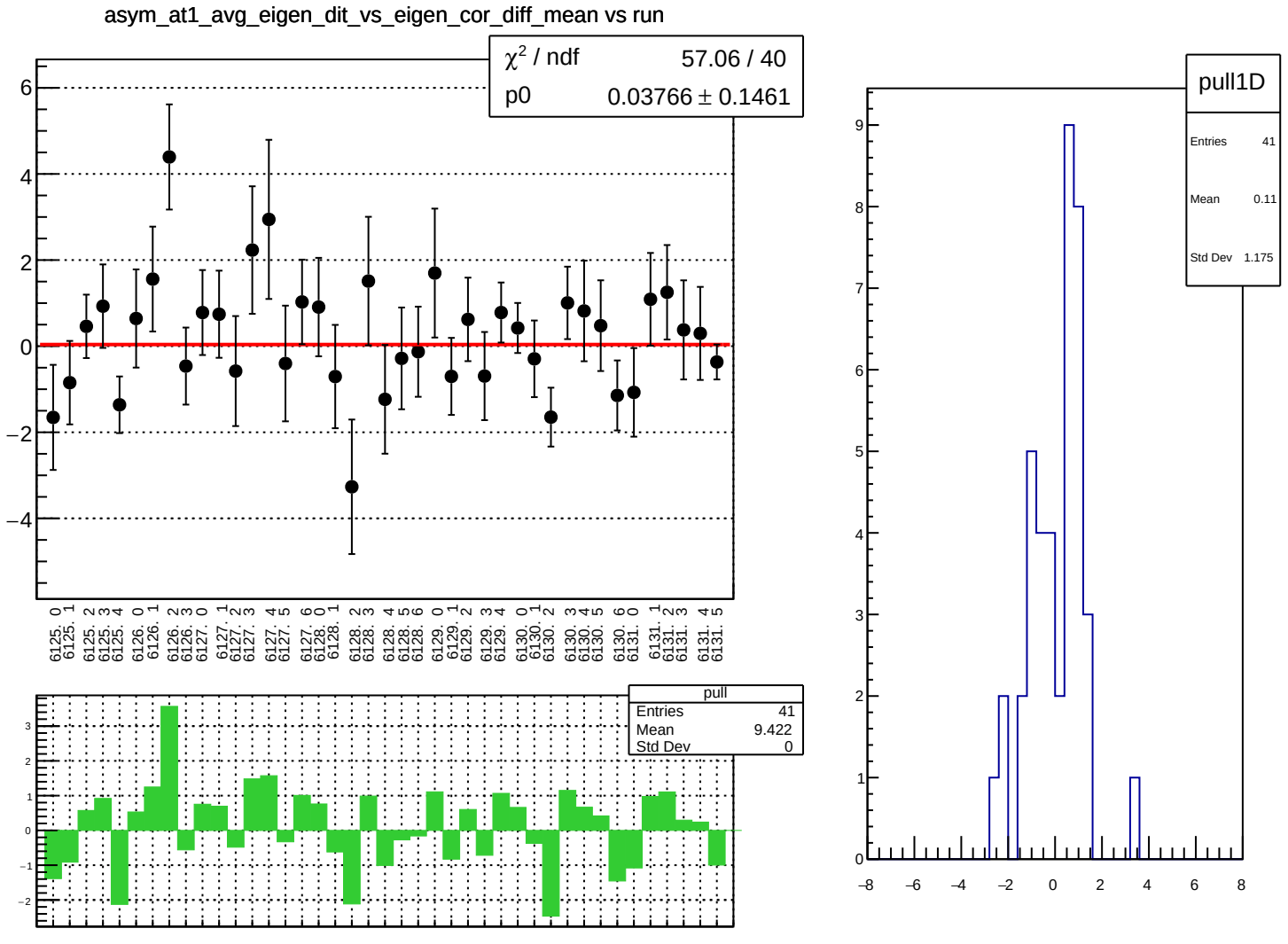

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 58.78 / 40
p0 −7.883e−07 ± 8.757e−07
0.02
0.01
0
−0.01
−0.02
−0.03
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −112.4
Std Dev 0
2
1
0
−1
−2
−3
−4

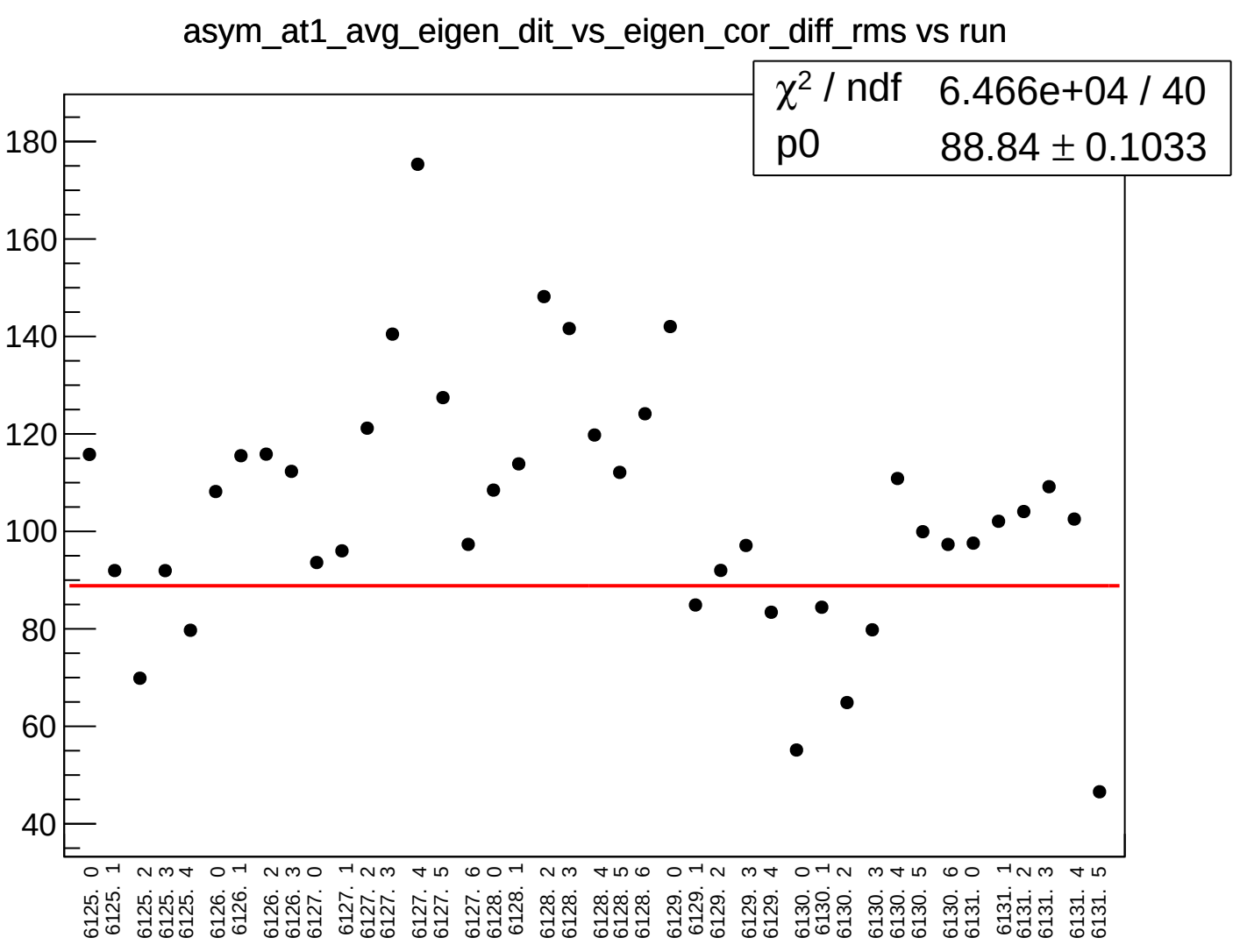

pull1D
Entries 41
Mean −0.02813
Std Dev 1.197
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

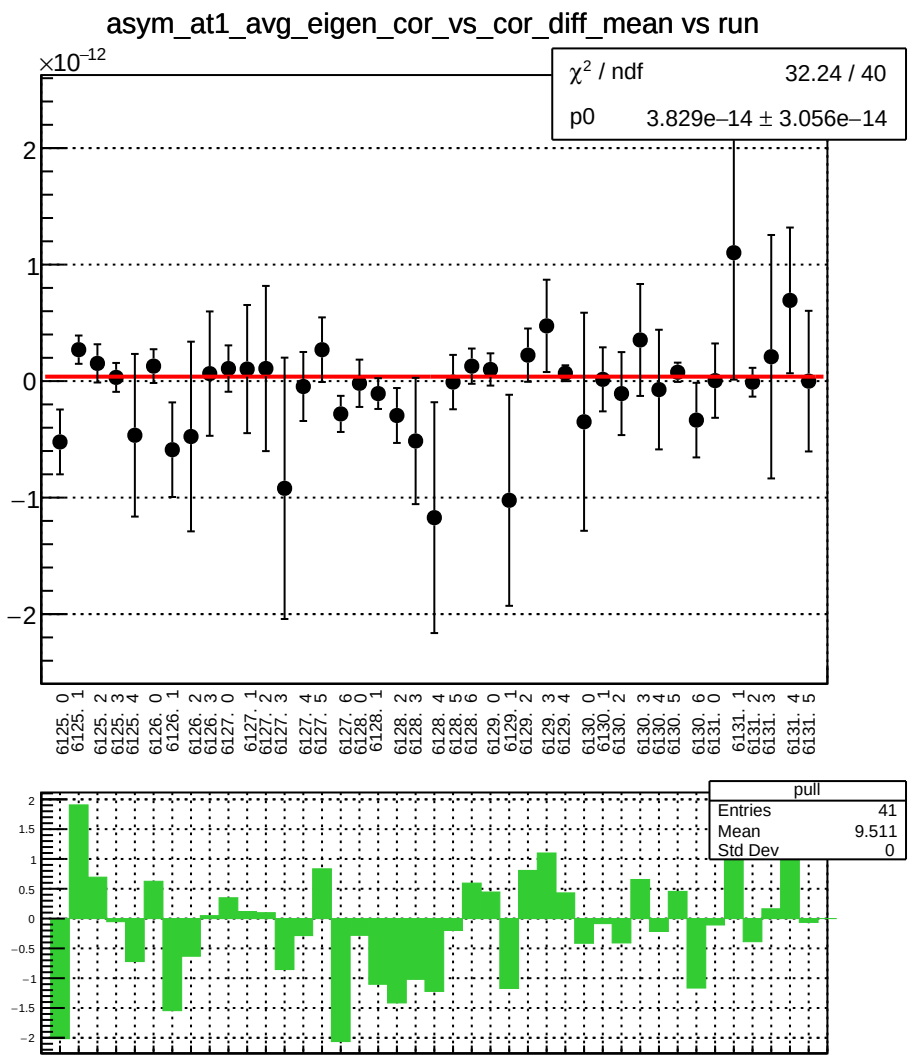

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 505.2 / 40
p0 0.0005552 ± 6.192e−07
0.59
0.58
0.57
0.56
0.55
0.54
0.53
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

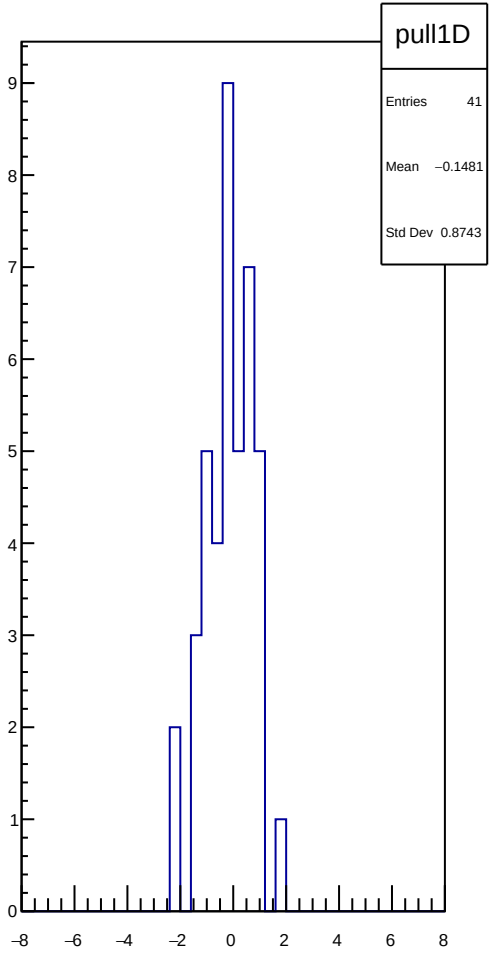

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 57.06 / 40
p0 0.03766 ± 0.1461
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 9.422
Std Dev 0
pull1D
Entries 41
Mean 0.11
Std Dev 1.175

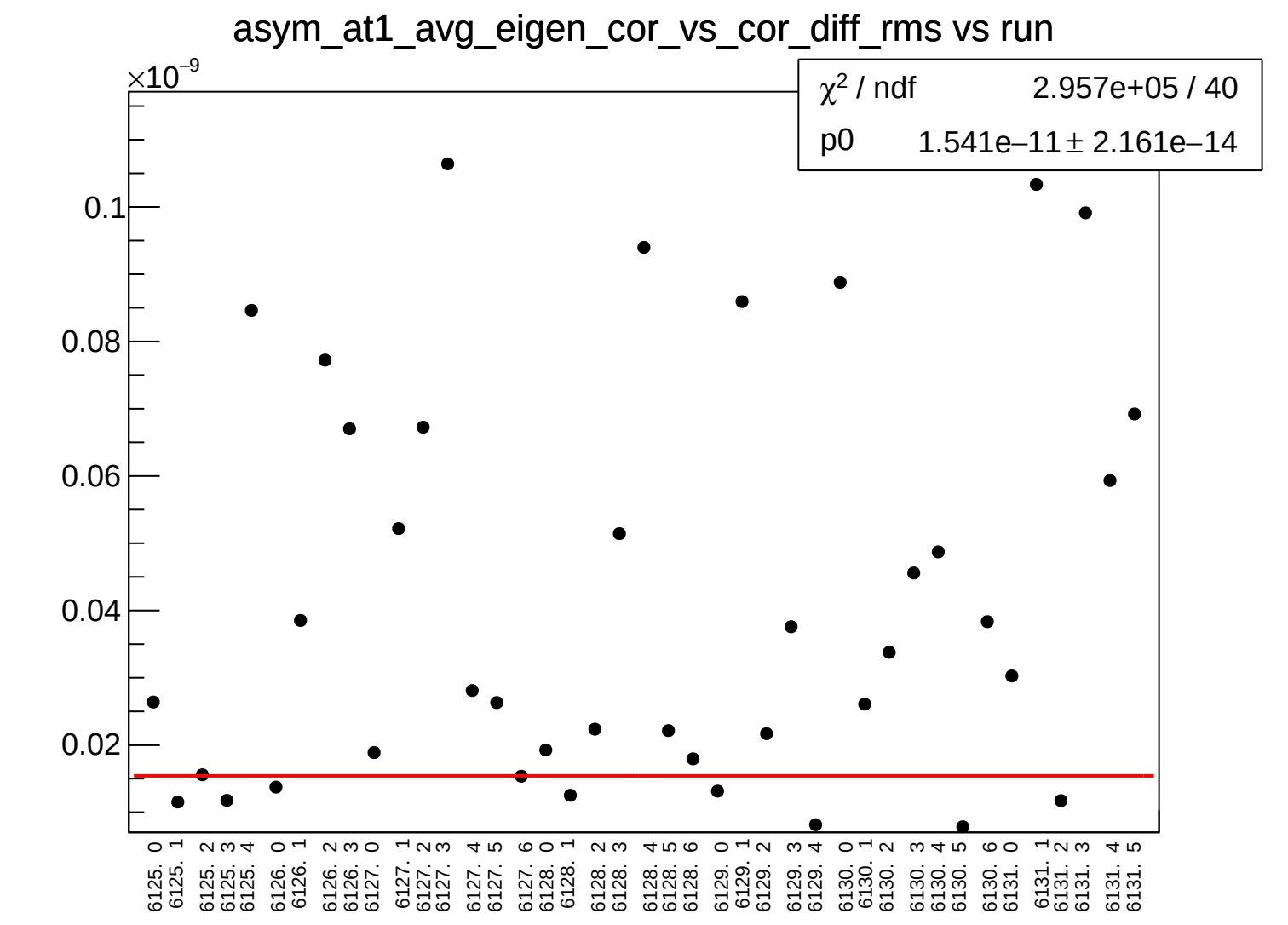

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.466e+04 / 40
p0 88.84 ± 0.1033
180
160
140
120
100
80
60
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

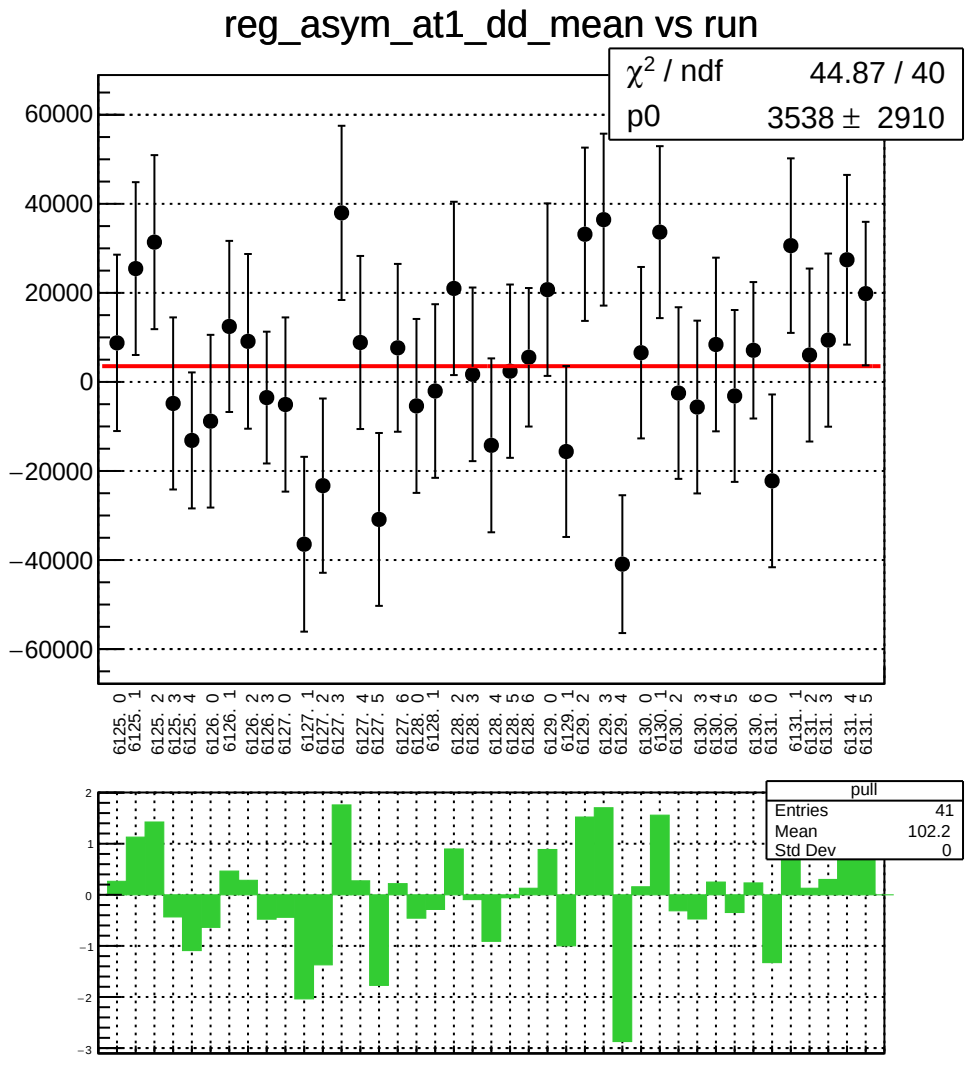

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.06 / 40
p0 0.03766 ± 0.1461
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 9.422
Std Dev 0
pull1D
Entries 41
Mean 0.11
Std Dev 1.175

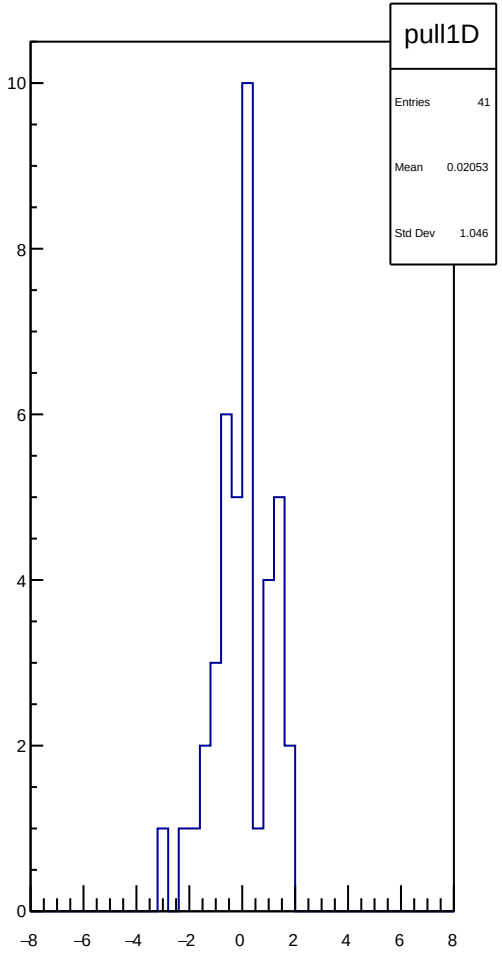

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.466e+04 / 40
p0 88.84 ± 0.1033
180
160
140
120
100
80
60
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

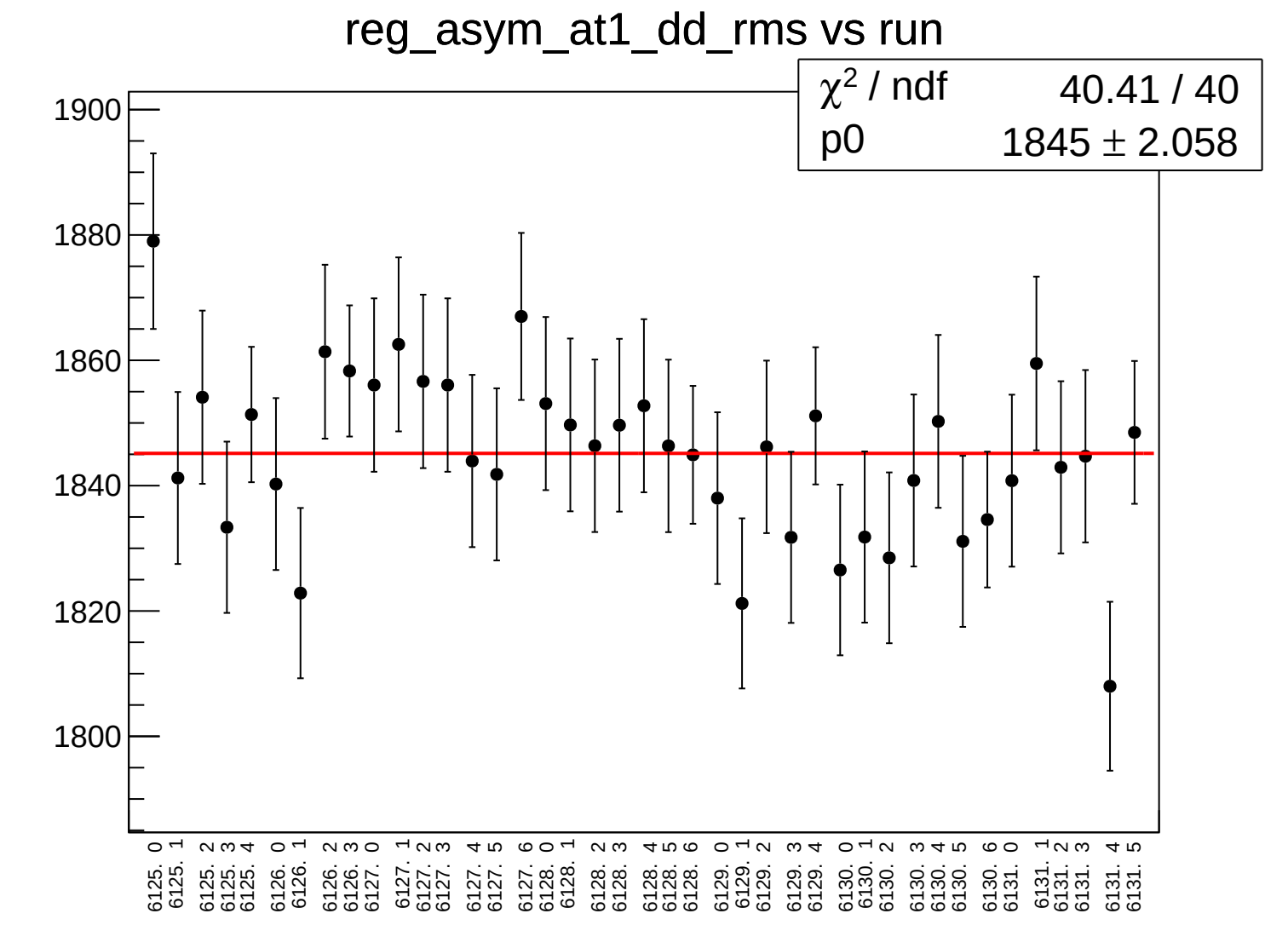

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.24 / 40
p0 3.829e−14 ± 3.056e−14
2
1
0
−1
−2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 9.511
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

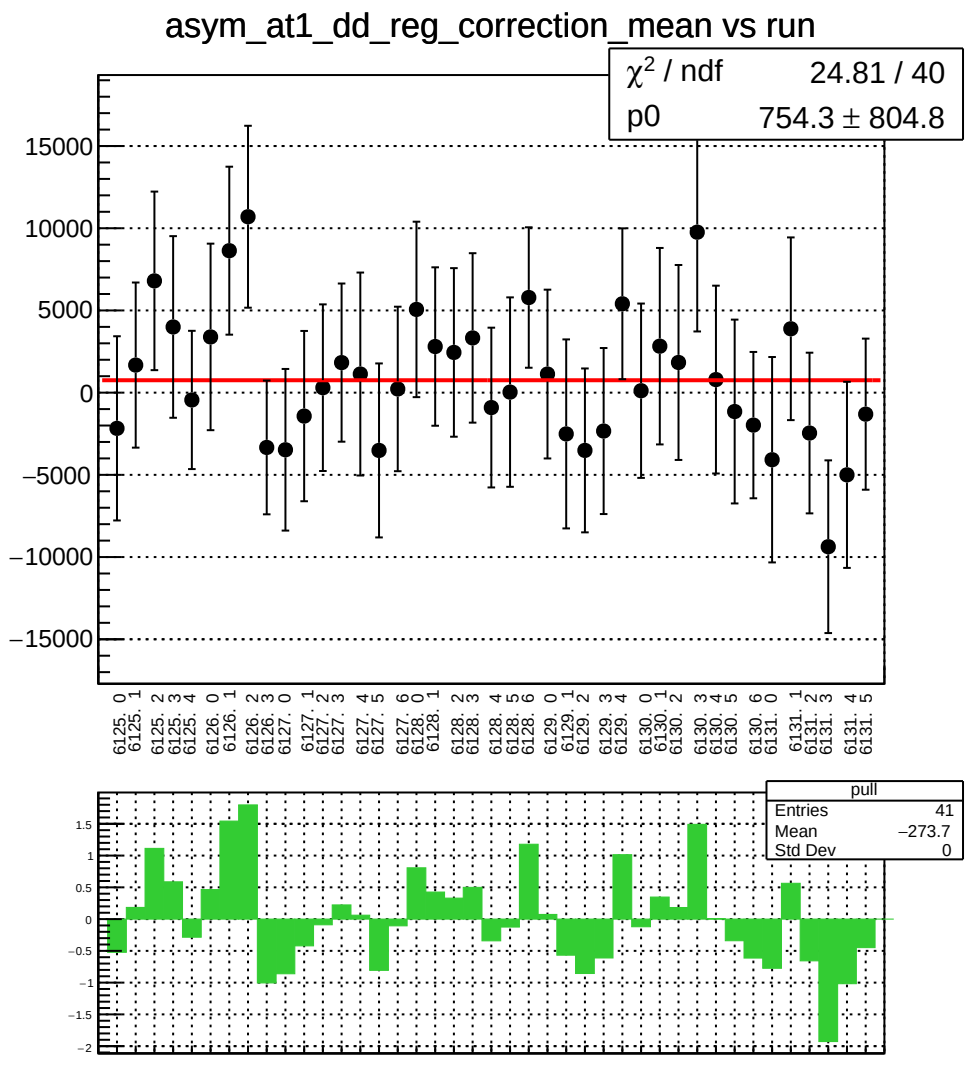

pull1D
Entries 41
Mean −0.1481
Std Dev 0.8743
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

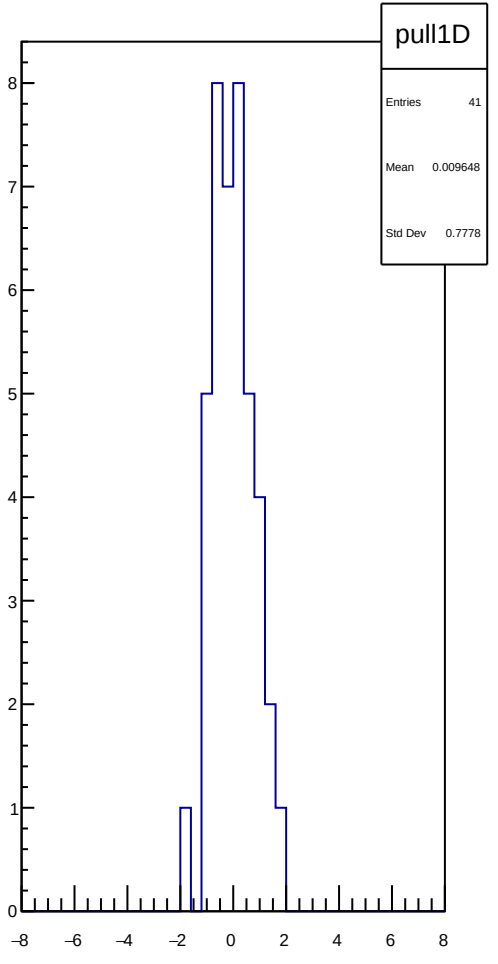

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.957e+05 / 40
p0 1.541e−11 ± 2.161e−14
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

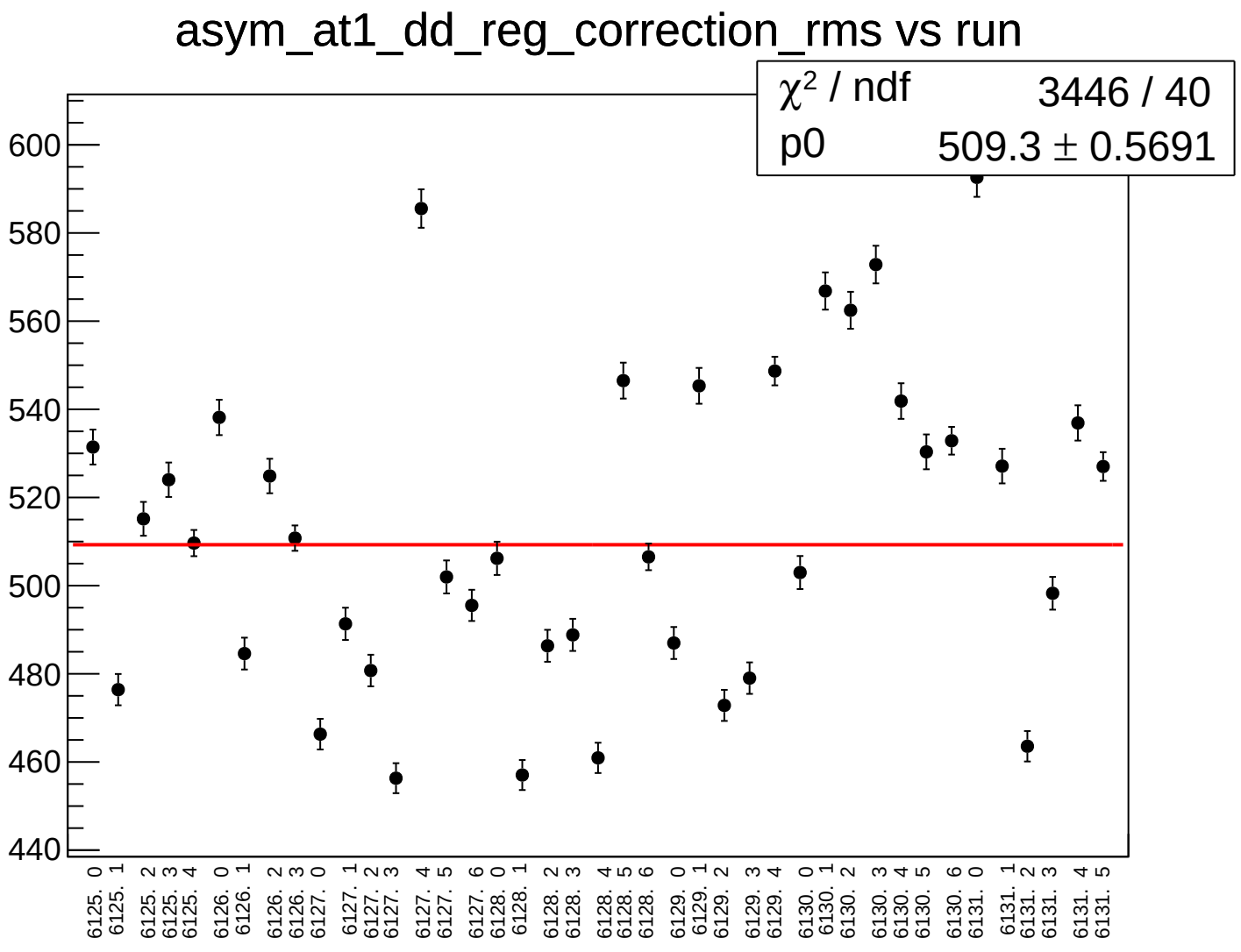

reg_asym_at1_dd_mean vs run
χ² / ndf 44.87 / 40
p0 3538 ± 2910
pull
Entries 41
Mean 102.2
Std Dev 0

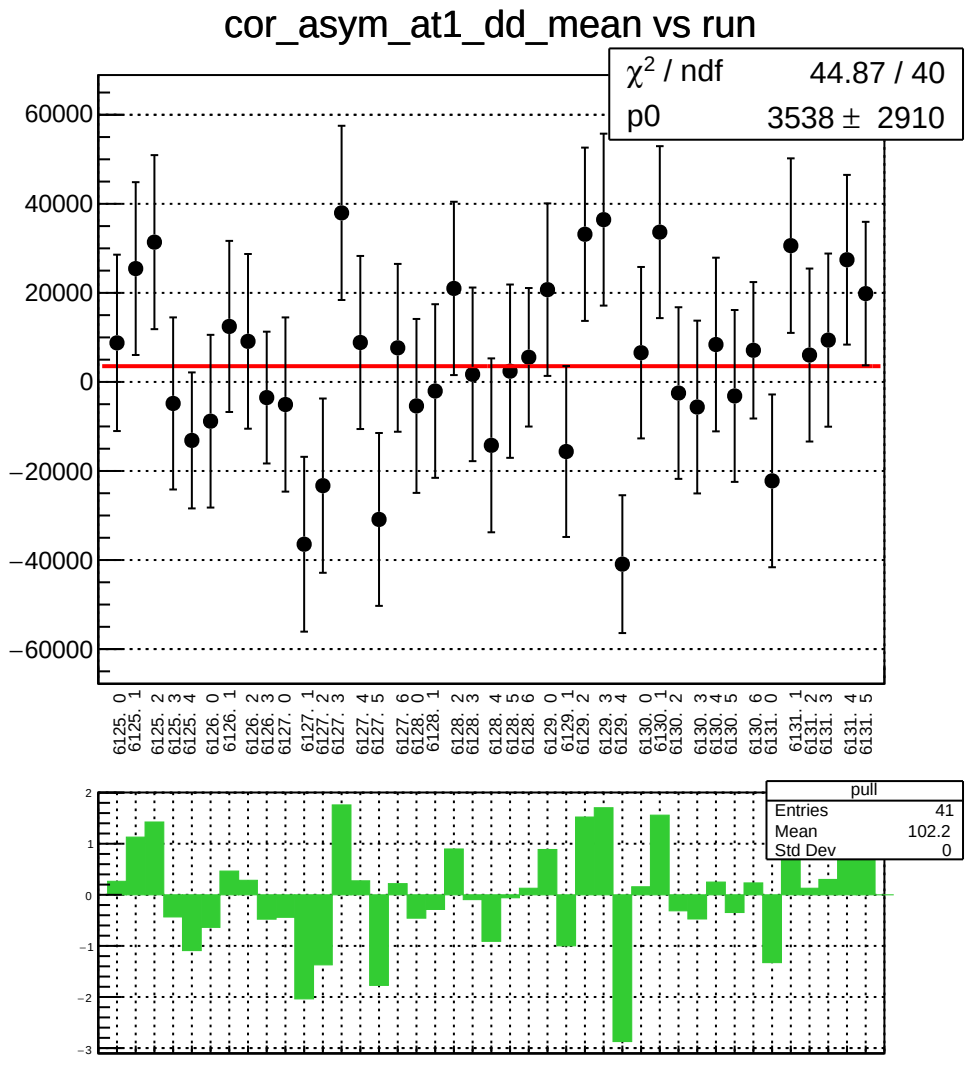

pull1D
Entries 41
Mean 0.02053
Std Dev 1.046

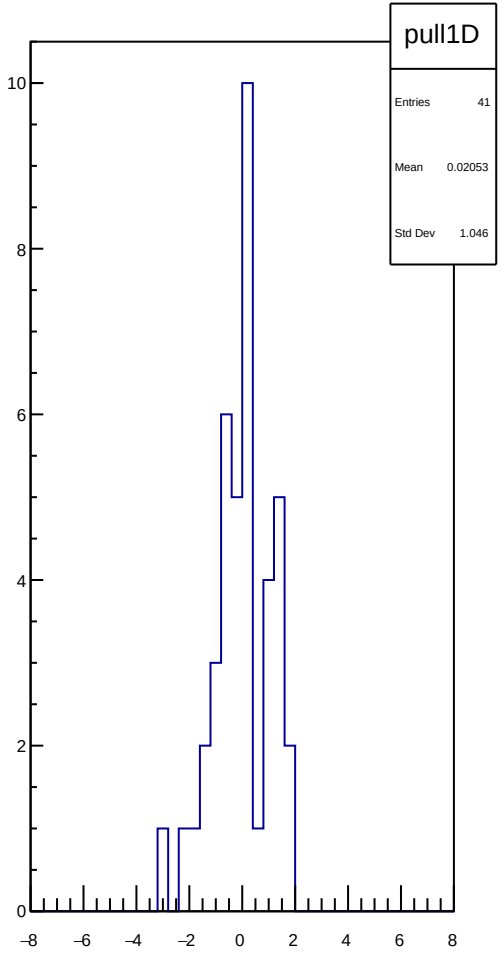

reg_asym_at1_dd_rms vs run
χ² / ndf 40.41 / 40
p0 1845 ± 2.058
1900
1880
1860
1840
1820
1800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

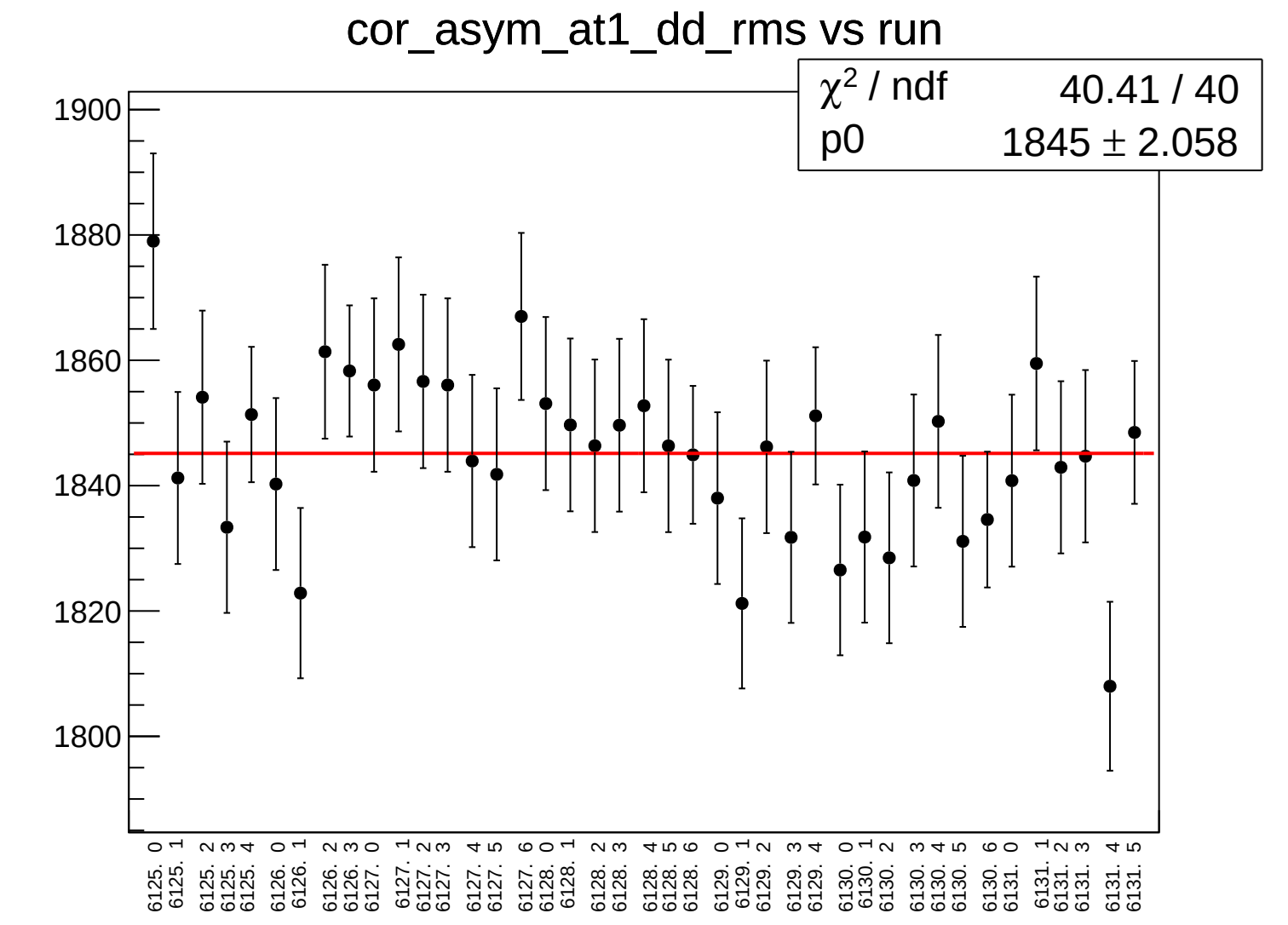

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 24.81 / 40
p0 754.3 ± 804.8
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −273.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.009648
Std Dev 0.7778
8
7
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 3446 / 40
p0 509.3 ± 0.5691
600
580
560
540
520
500
480
460
440
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


cor_asym_at1_dd_mean vs run
χ² / ndf 44.87 / 40
p0 3538 ± 2910
pull
Entries 41
Mean 102.2
Std Dev 0


pull1D
Entries 41
Mean 0.02053
Std Dev 1.046


cor_asym_at1_dd_rms vs run
χ² / ndf 40.41 / 40
p0 1845 ± 2.058
1900
1880
1860
1840
1820
1800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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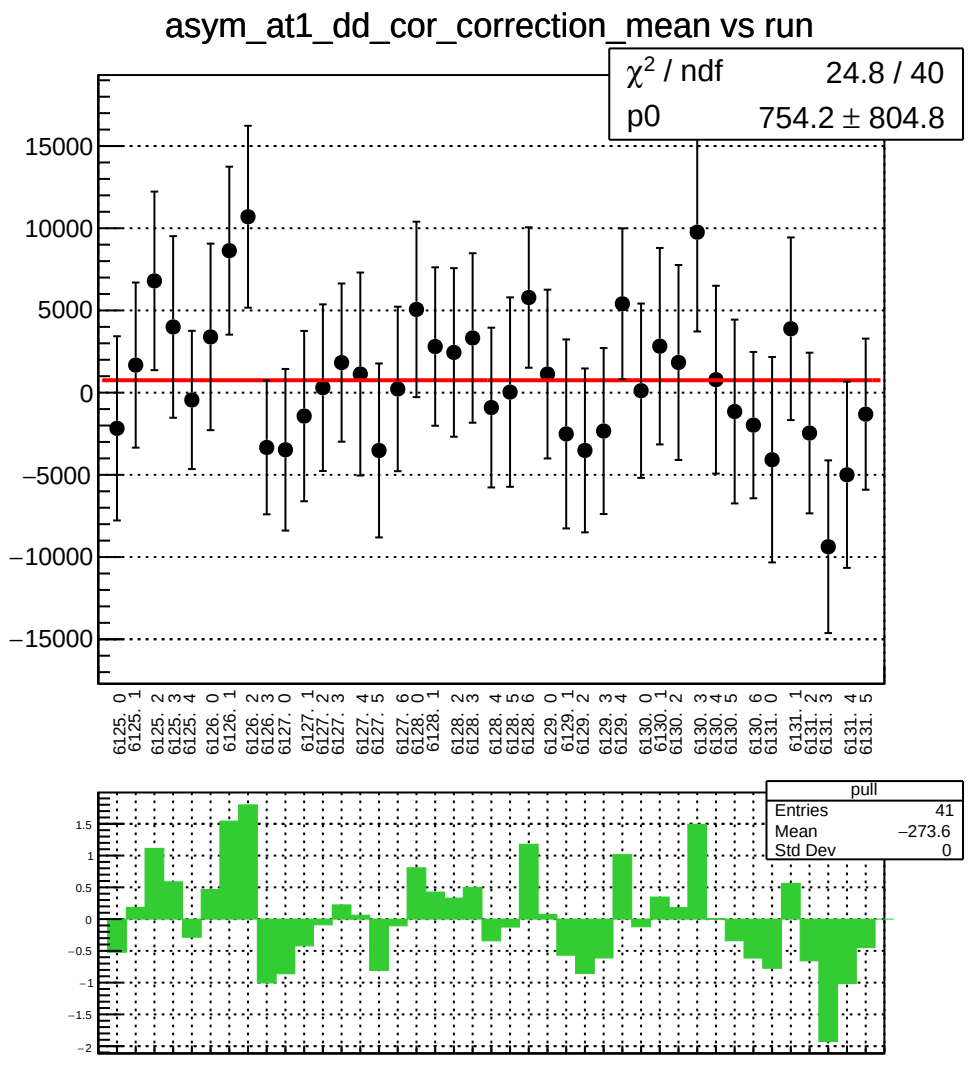
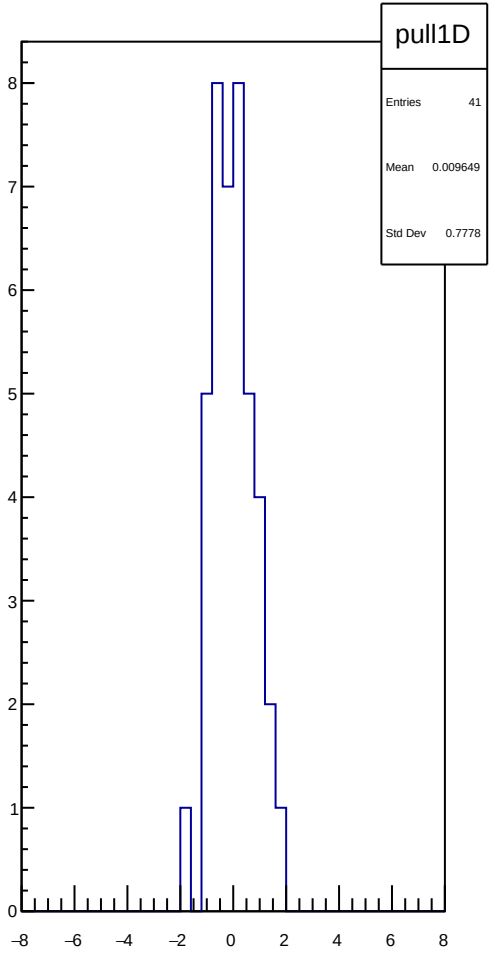
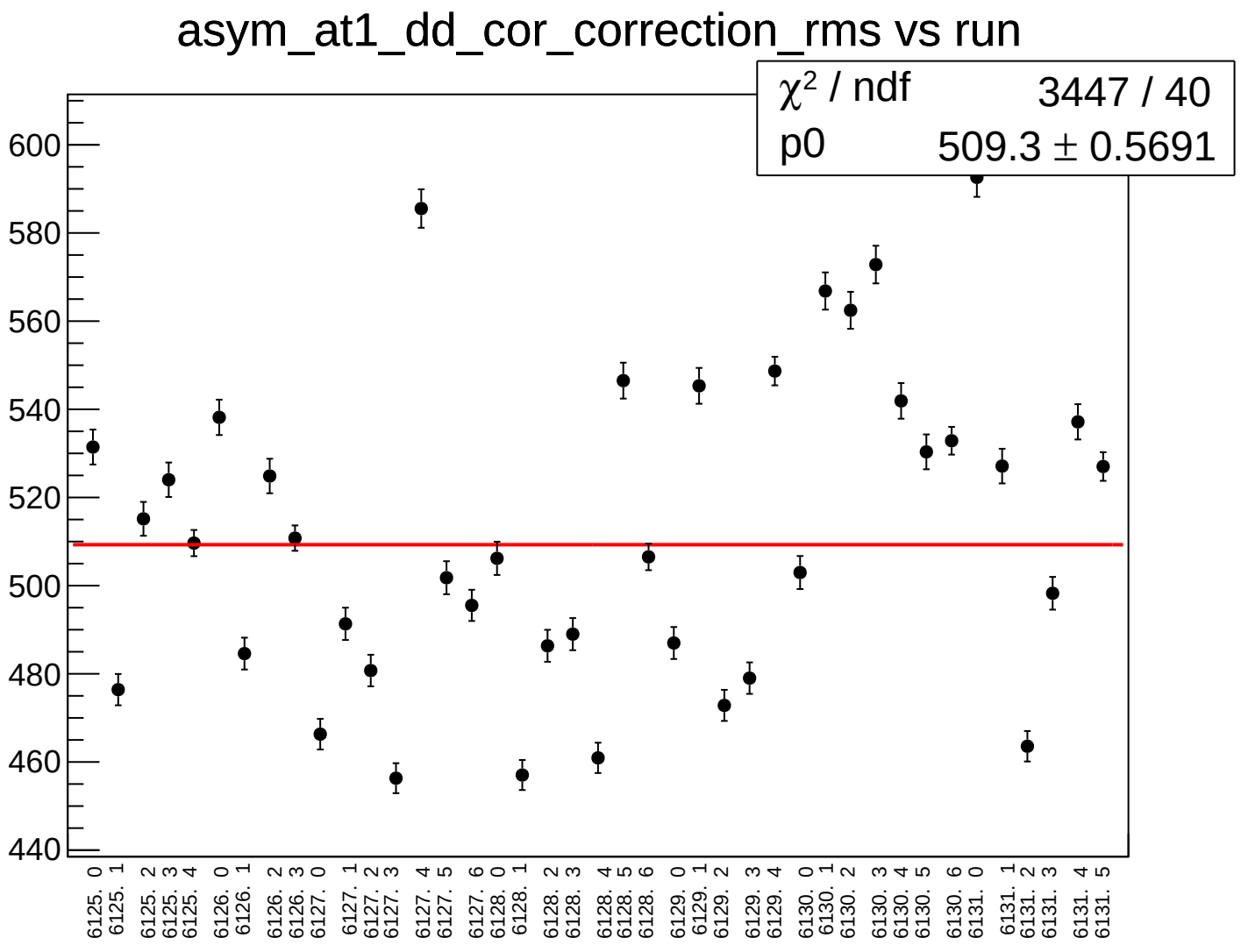
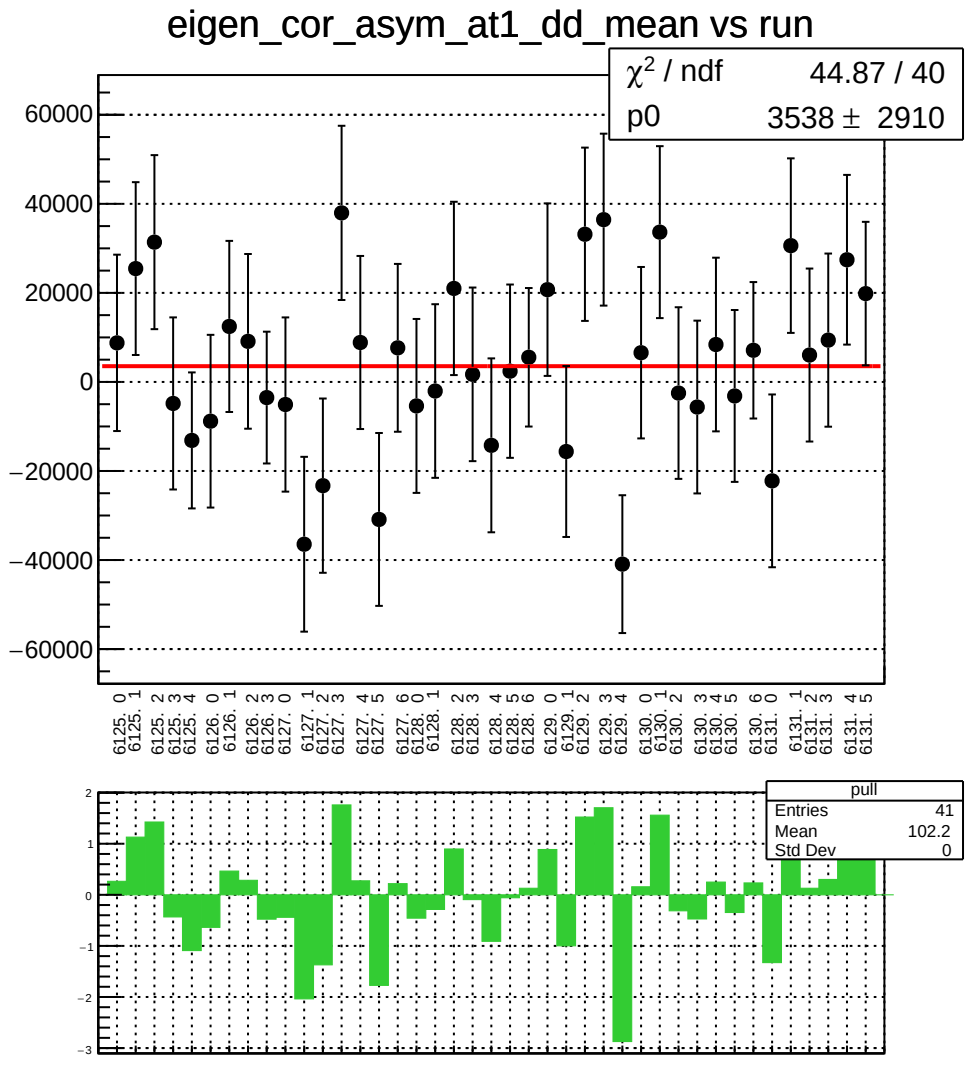
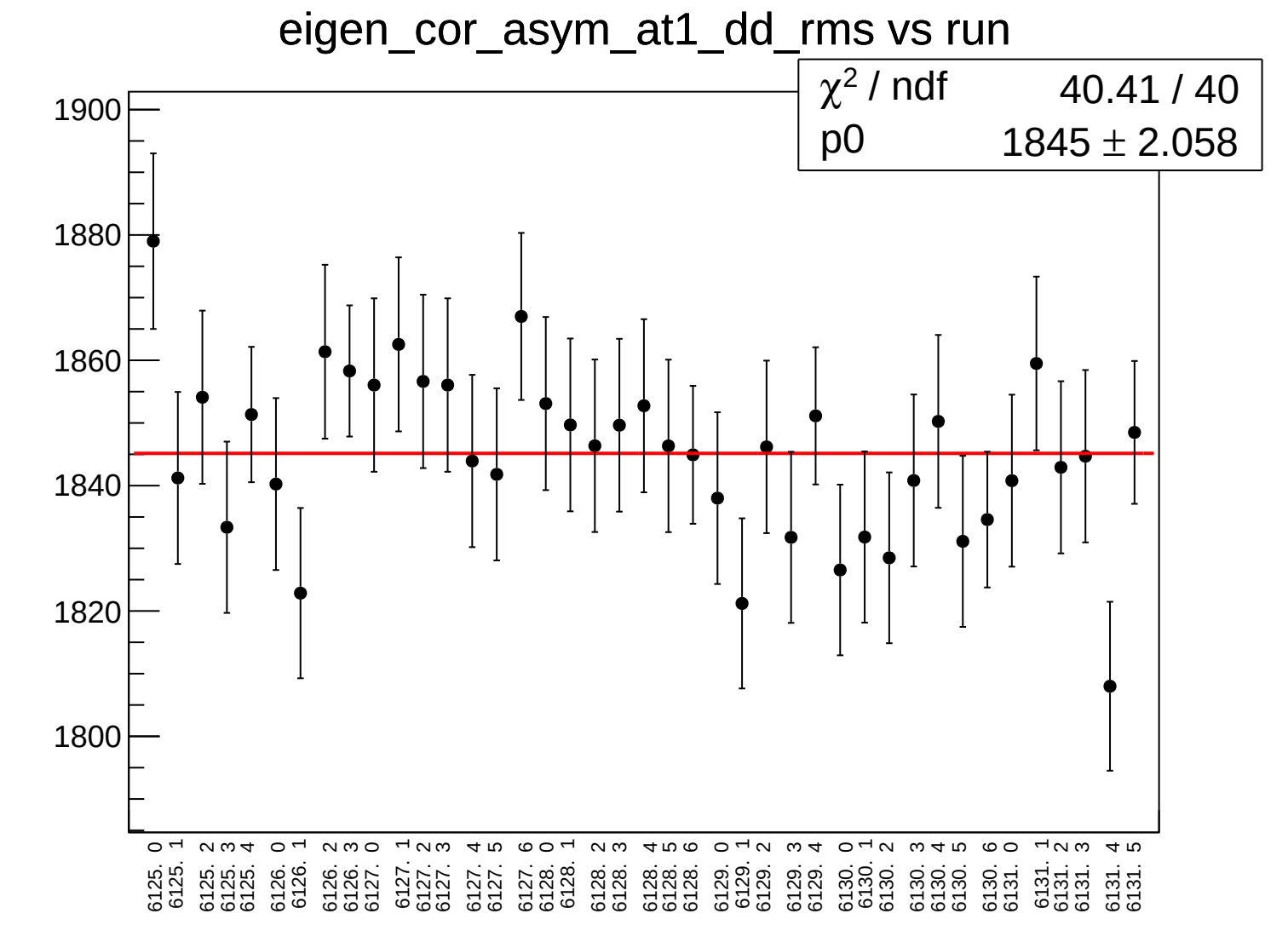
6131. 2
6131. 3
6131. 4
6131. 5


asym_at1_dd_cor_correction_mean vs run
χ² / ndf 24.8 / 40
p0 754.2 ± 804.8
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −273.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.009649
Std Dev 0.7778
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_cor_correction_rms vs run
χ² / ndf 3447 / 40
p0 509.3 ± 0.5691
600
580
560
540
520
500
480
460
440
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 44.87 / 40
p0 3538 ± 2910
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 102.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.02053
Std Dev 1.046
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 40.41 / 40
p0 1845 ± 2.058
1900
1880
1860
1840
1820
1800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6130. 5
6130. 6
6131. 0
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6131. 2
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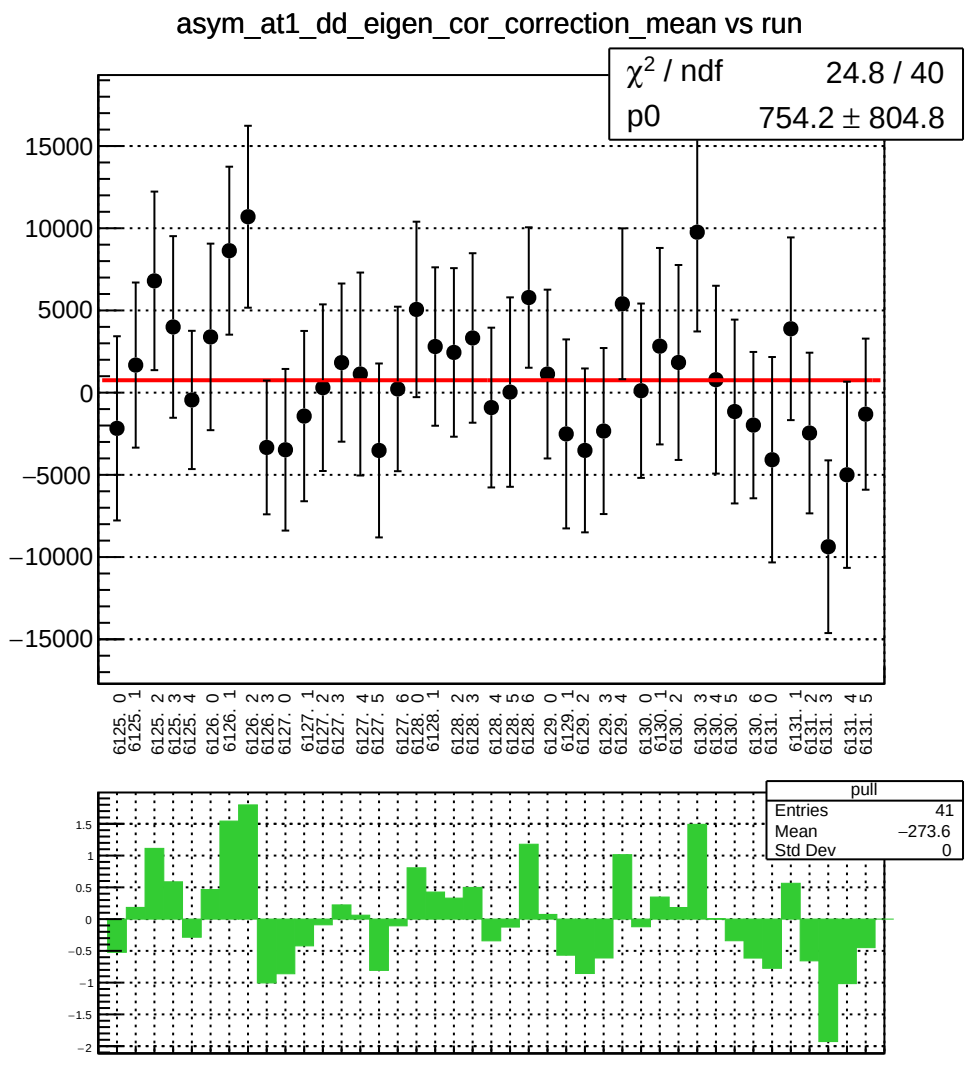
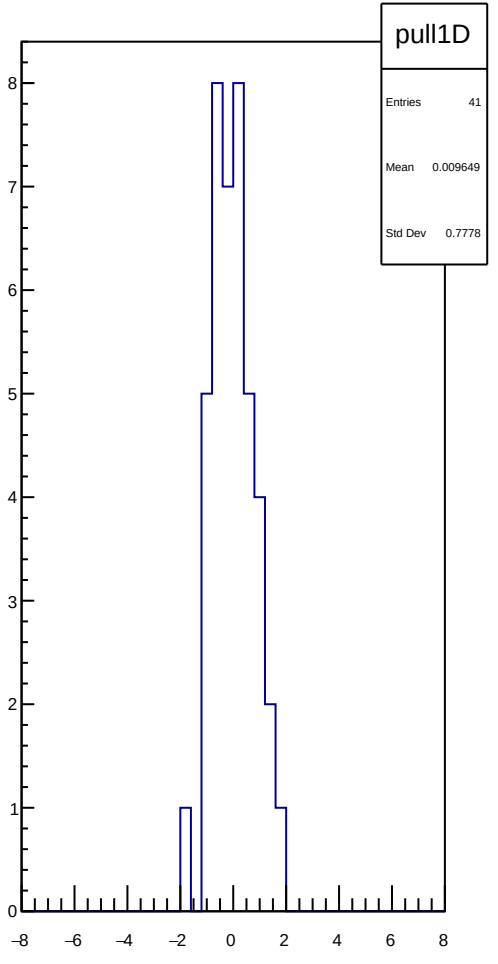
6131. 4
6131. 5


asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 24.8 / 40
p0 754.2 ± 804.8
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −273.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.009649
Std Dev 0.7778
8
7
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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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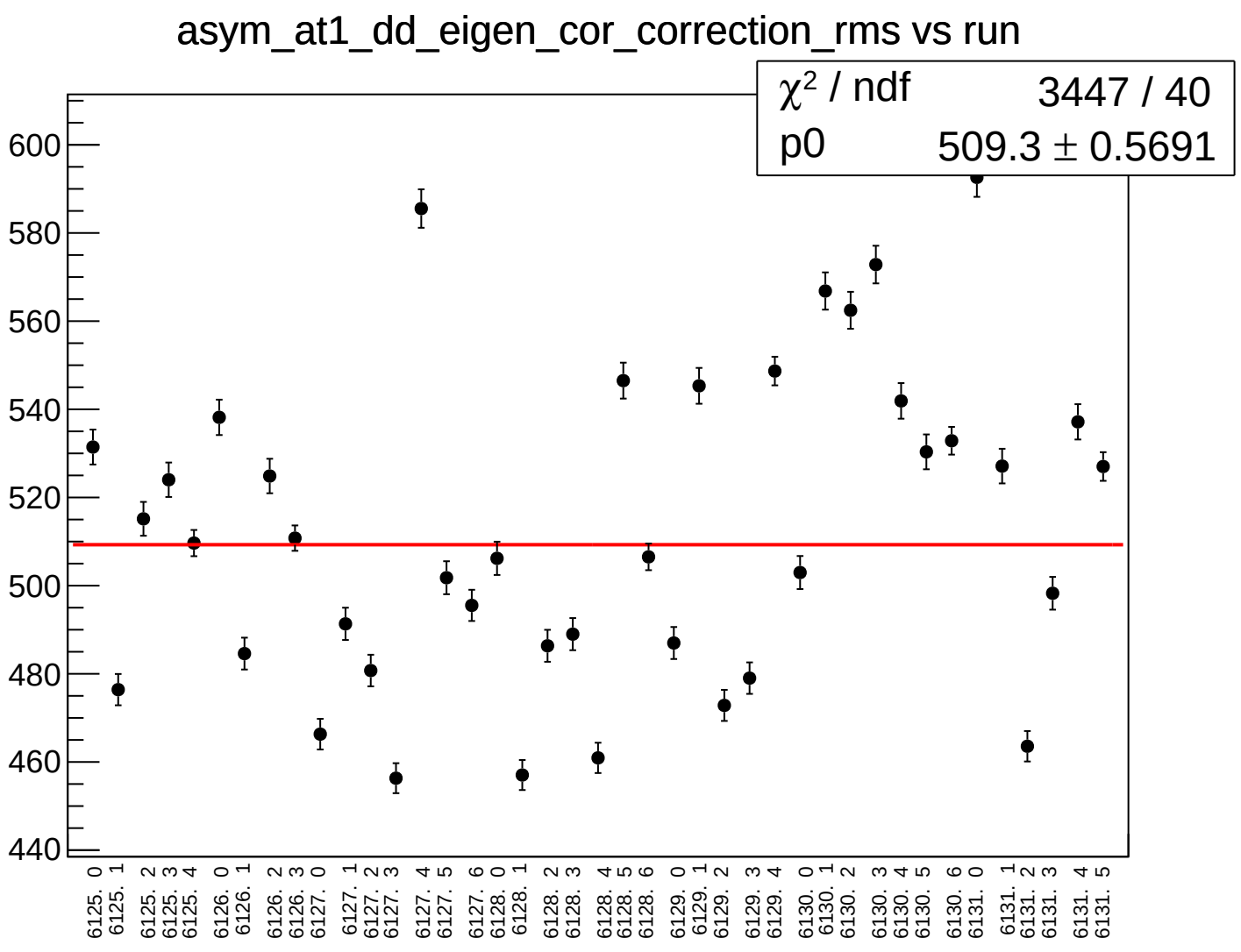
6
8


asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 3447 / 40
p0 509.3 ± 0.5691
600
580
560
540
520
500
480
460
440
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
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6127. 5
6127. 6
6128. 0
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6128. 2
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6128. 5
6128. 6
6129. 0
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6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6131. 0
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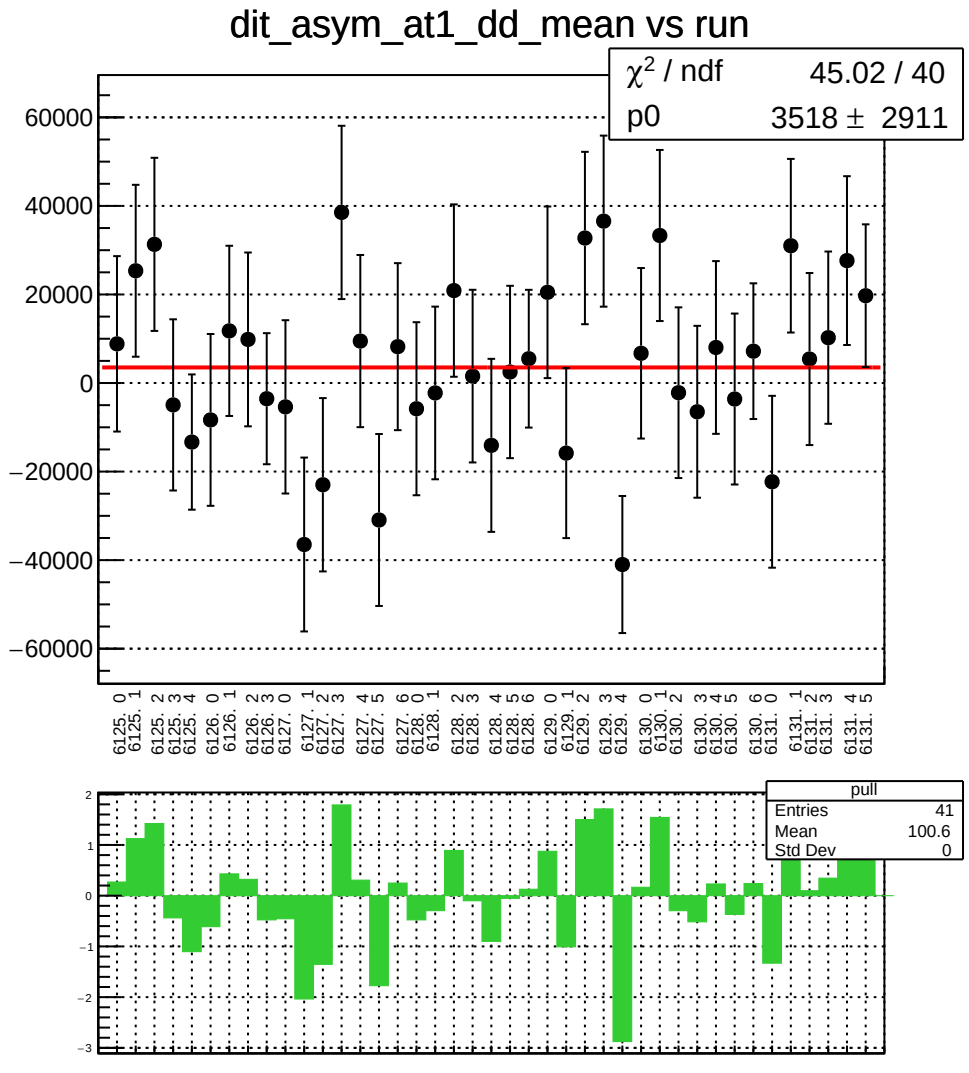
6131. 4
6131. 5


dit_asym_at1_dd_mean vs run
χ² / ndf 45.02 / 40
p0 3518 ± 2911
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
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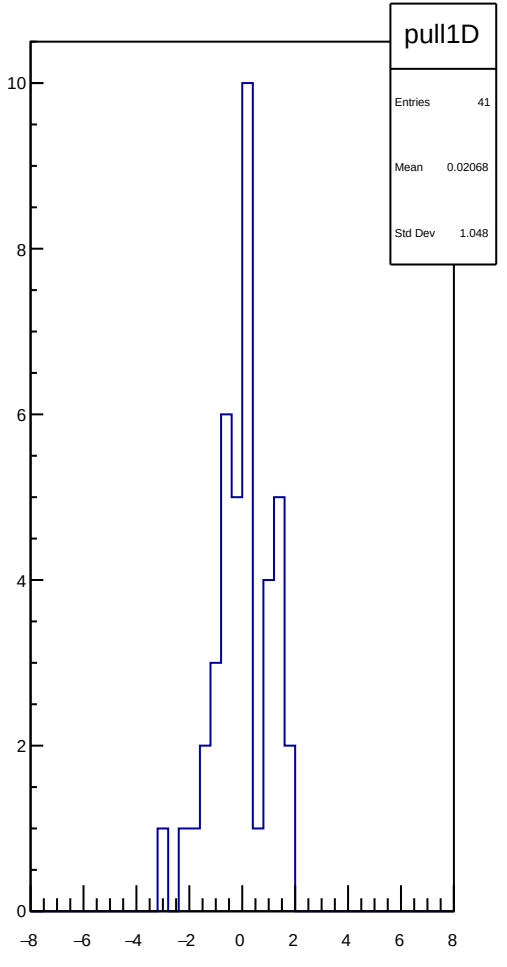
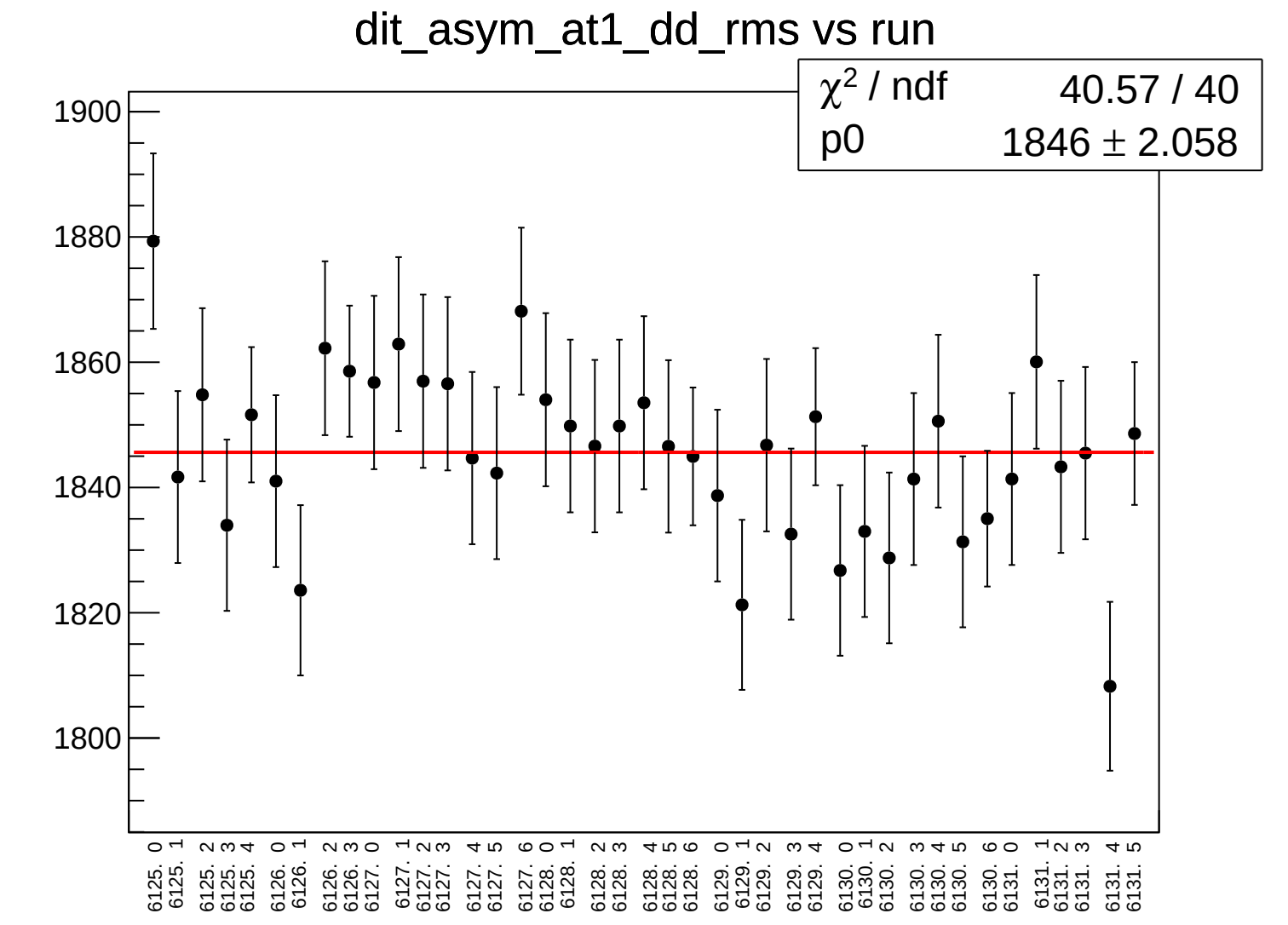
6131. 4
6131. 5
pull
Entries 41
Mean 100.6
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean 0.02068
Std Dev 1.048
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_at1_dd_rms vs run
χ² / ndf 40.57 / 40
p0 1846 ± 2.058
1900
1880
1860
1840
1820
1800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
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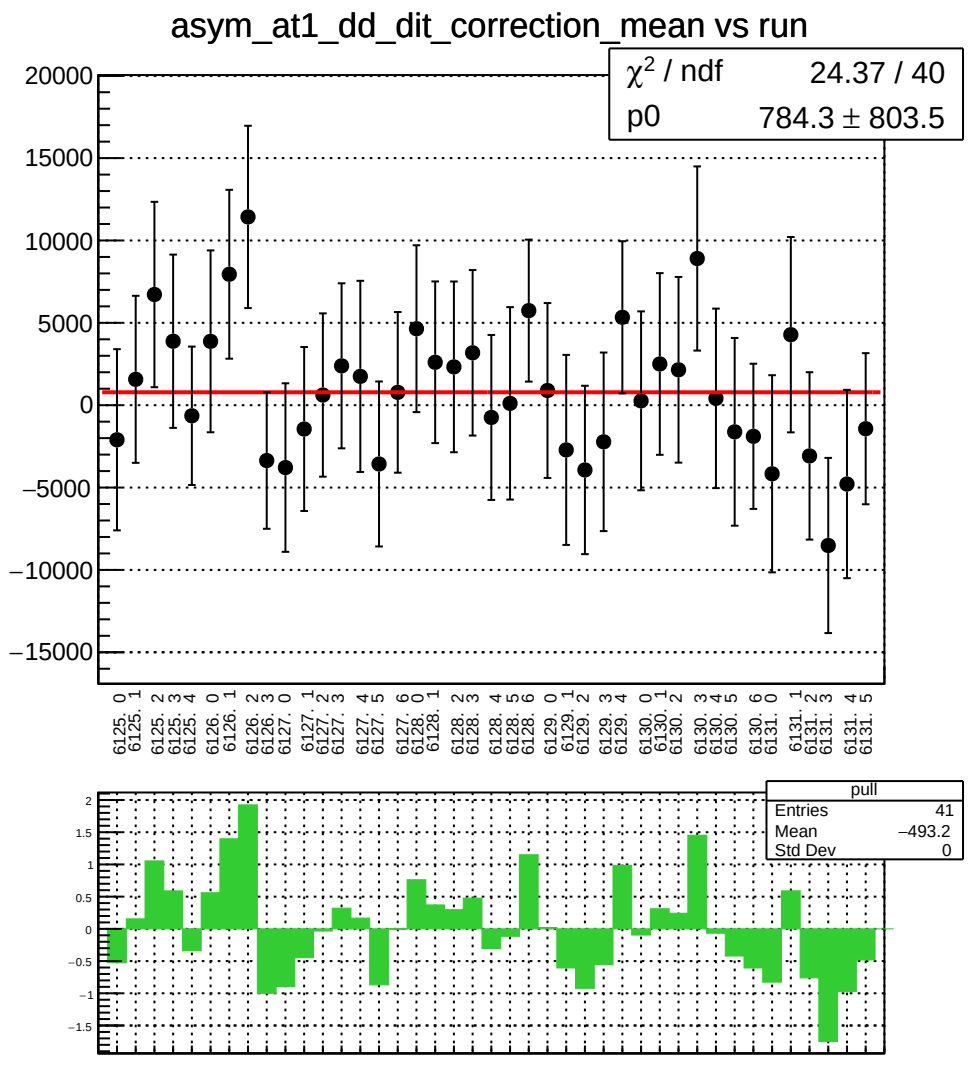
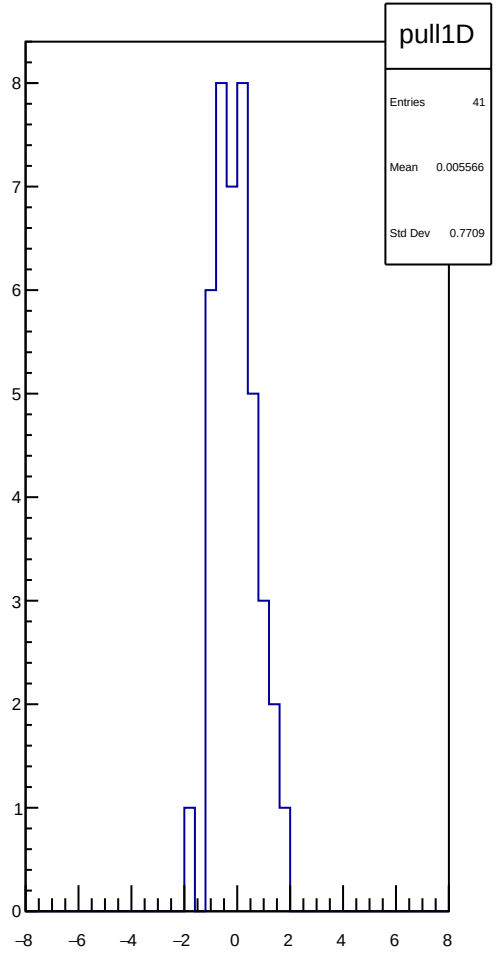
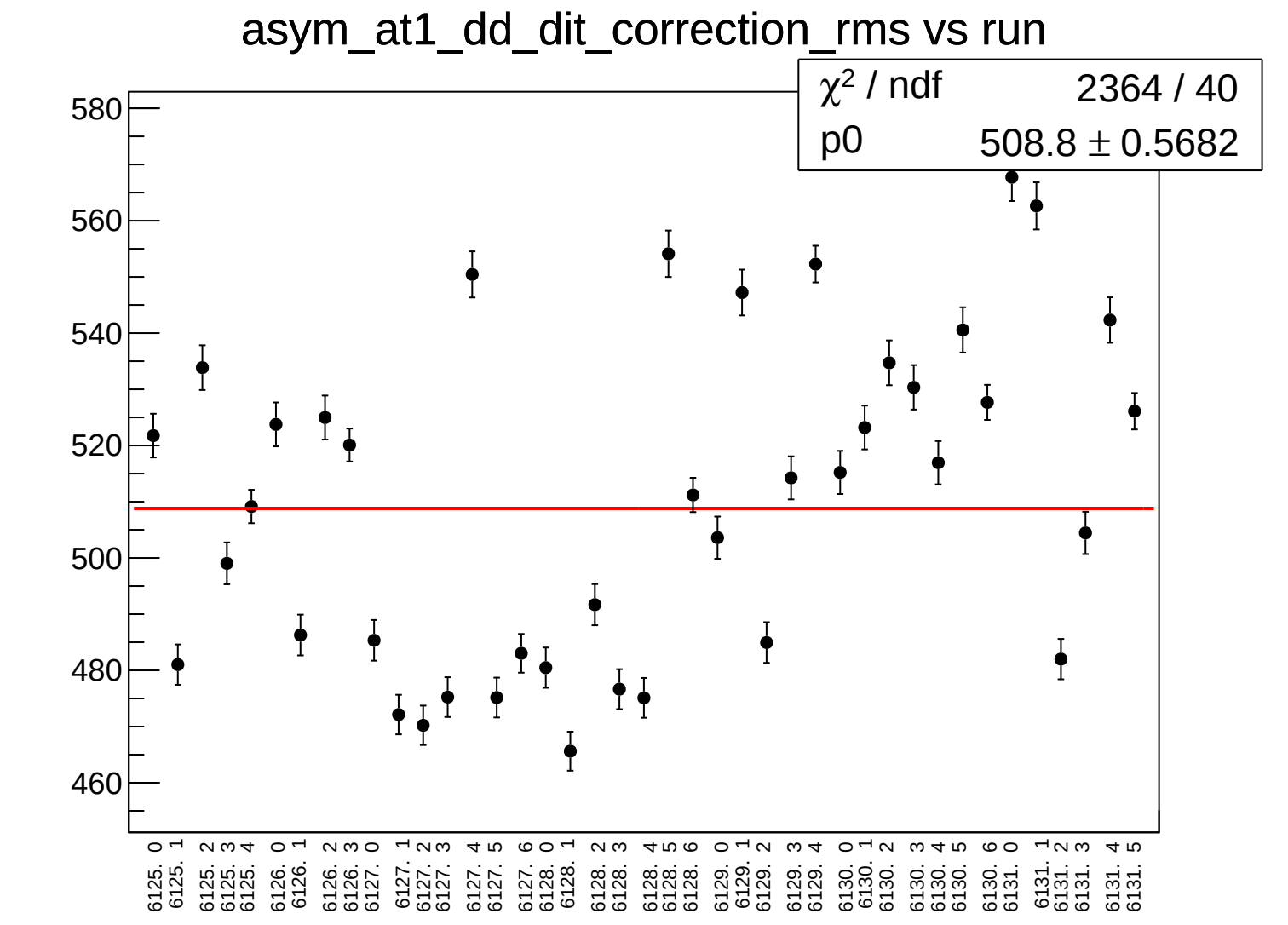
6131. 4
6131. 5


asym_at1_dd_dit_correction_mean vs run
χ² / ndf 24.37 / 40
p0 784.3 ± 803.5
pull
Entries 41
Mean −493.2
Std Dev 0


pull1D
Entries 41
Mean 0.005566
Std Dev 0.7709


asym_at1_dd_dit_correction_rms vs run
χ² / ndf 2364 / 40
p0 508.8 ± 0.5682
580
560
540
520
500
480
460
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6127. 5
6127. 6
6128. 0
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6128. 2
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6129. 0
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6129. 4
6130. 0
6130. 1
6130. 2
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6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
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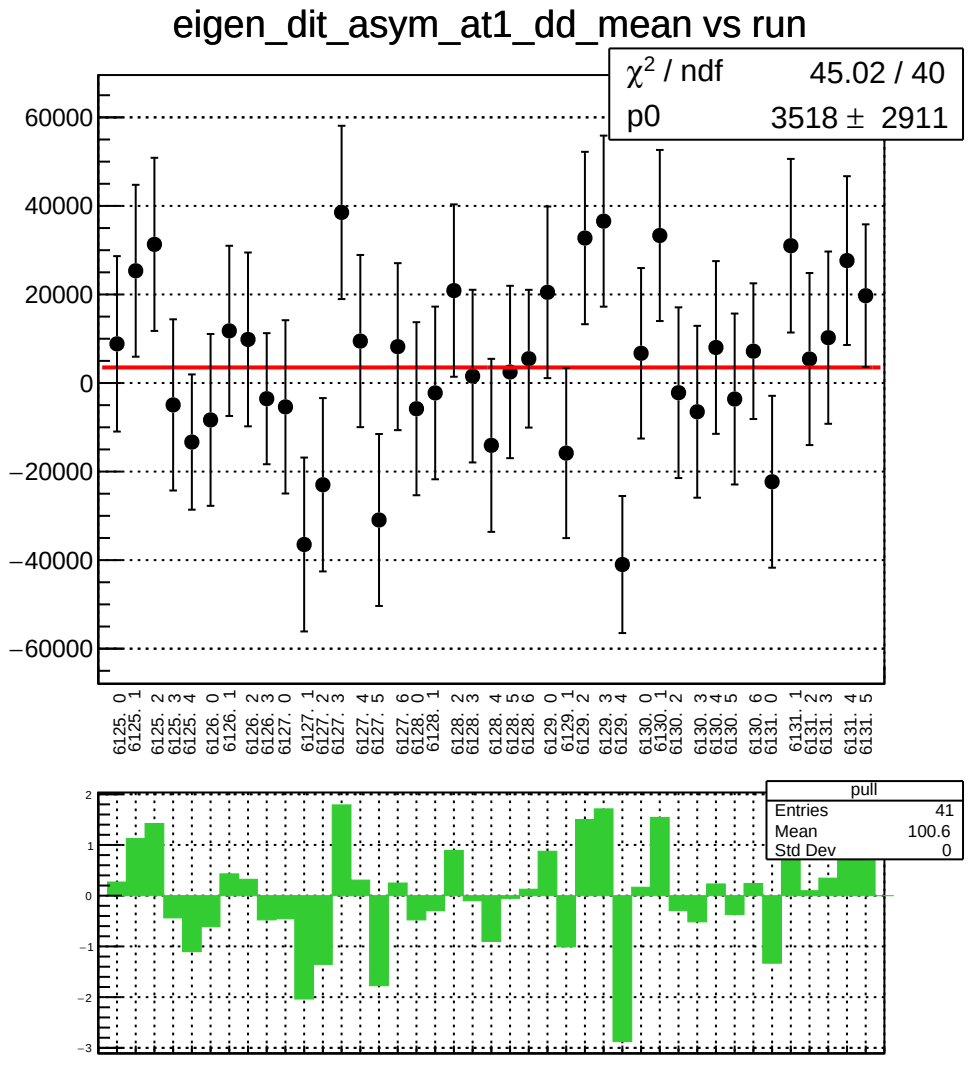
6131. 4
6131. 5


eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 45.02 / 40
p0 3518 ± 2911
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
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6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
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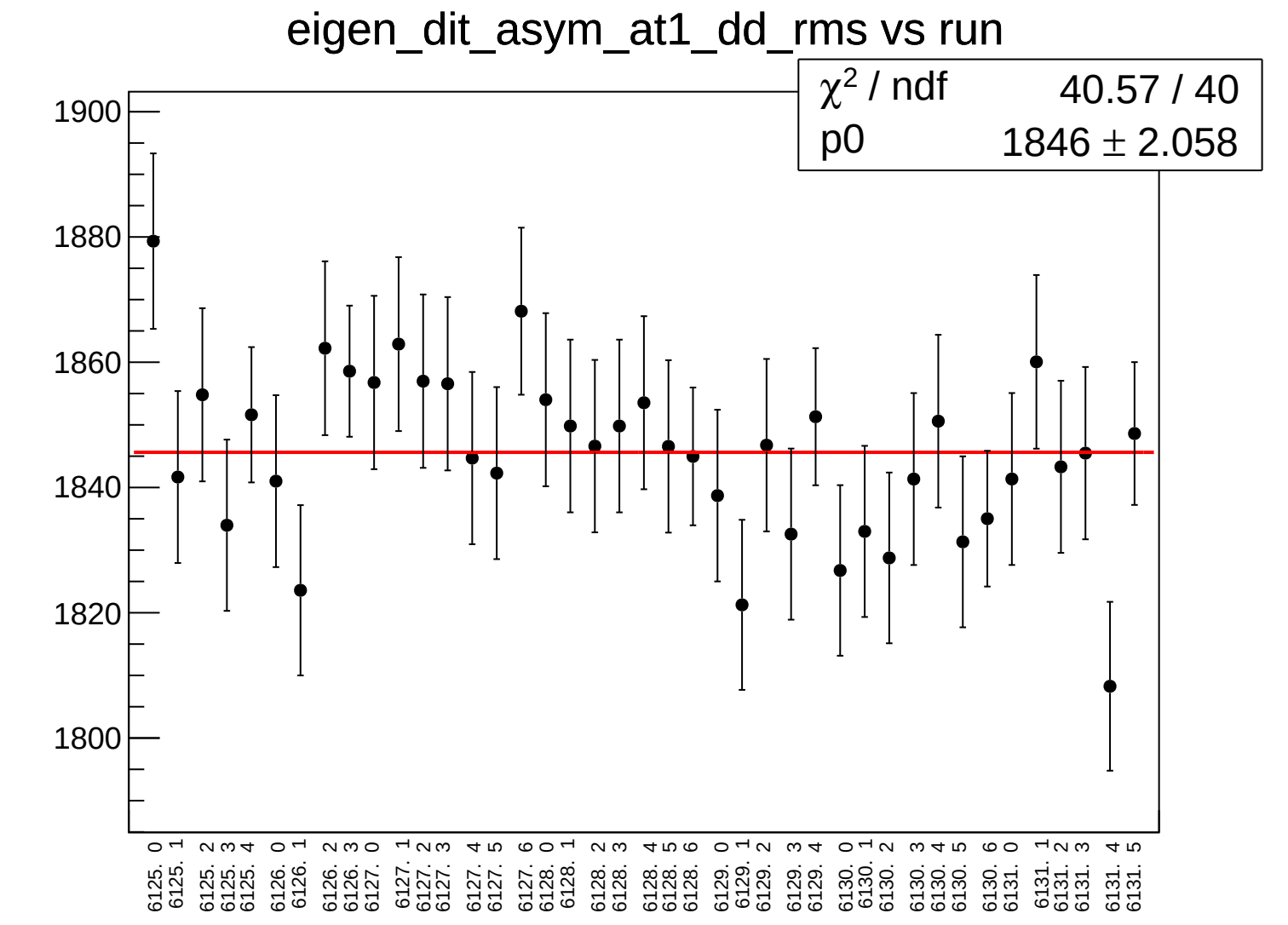
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 100.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.02068
Std Dev 1.048
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 40.57 / 40
p0 1846 ± 2.058
1900
1880
1860
1840
1820
1800
6125. 0
6125. 1
6125. 2
6125. 3
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6126. 0
6126. 1
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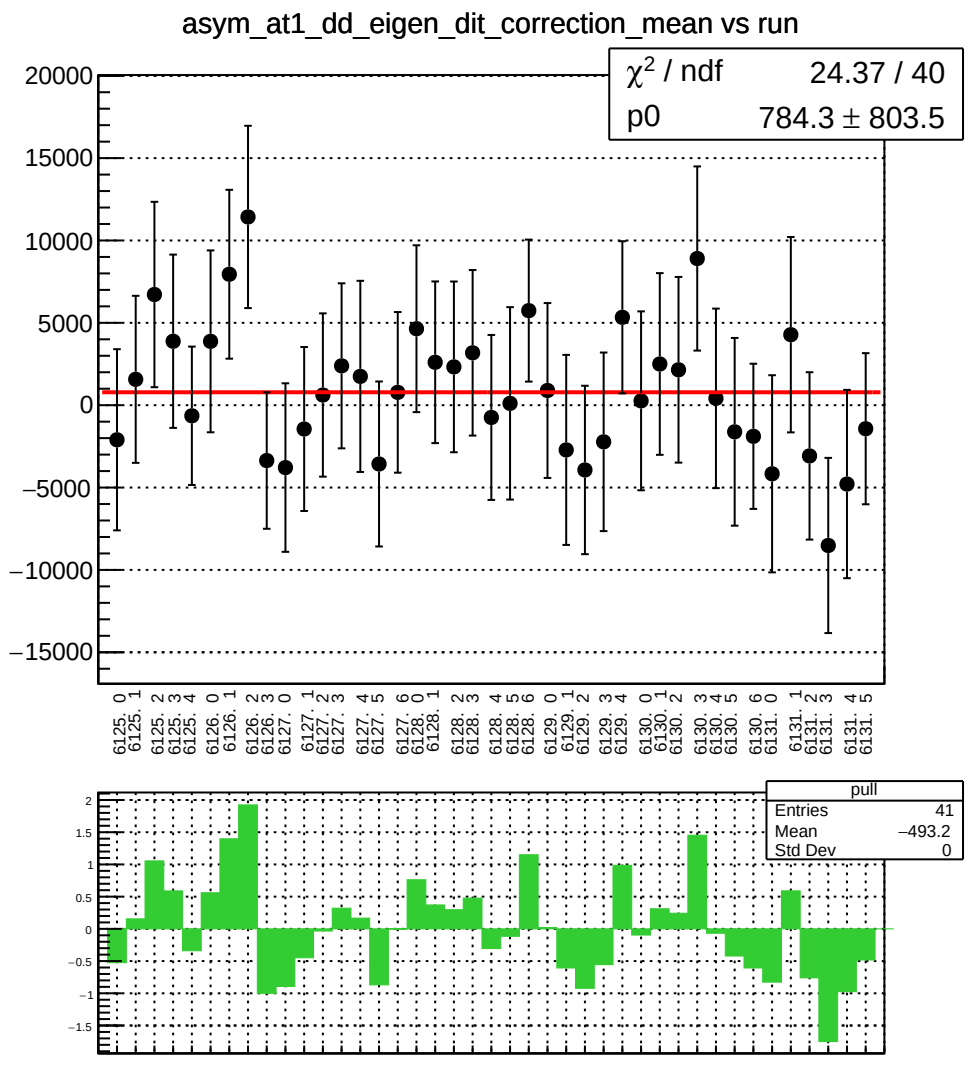
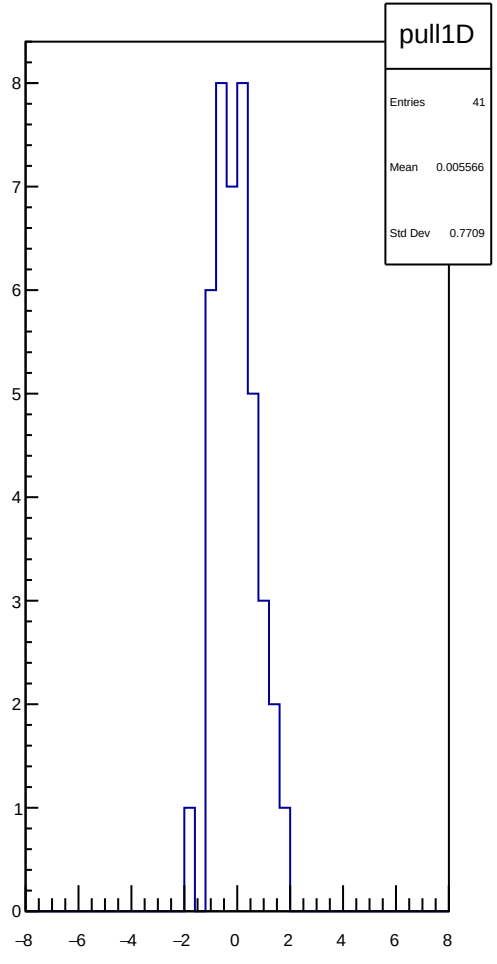
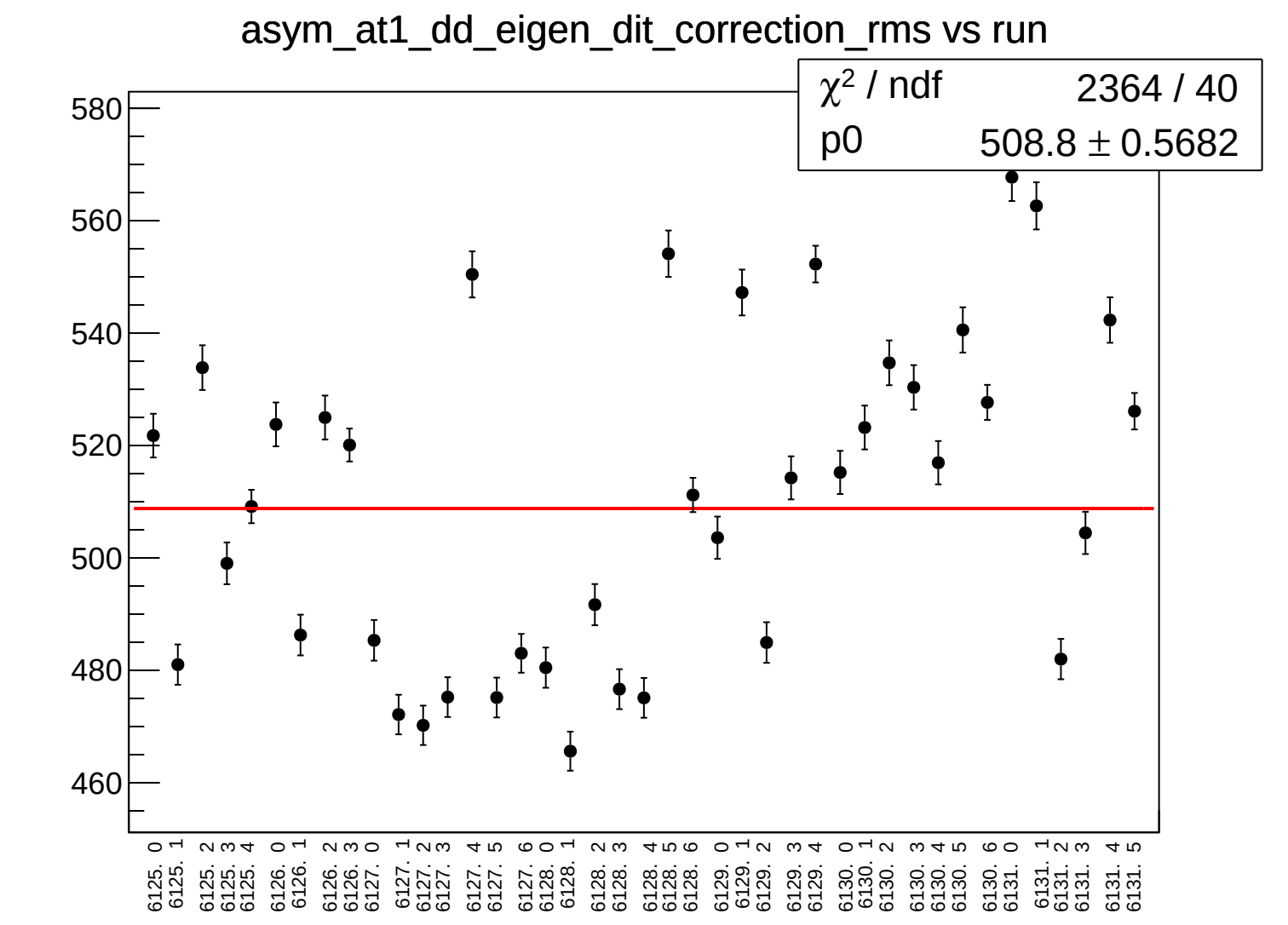
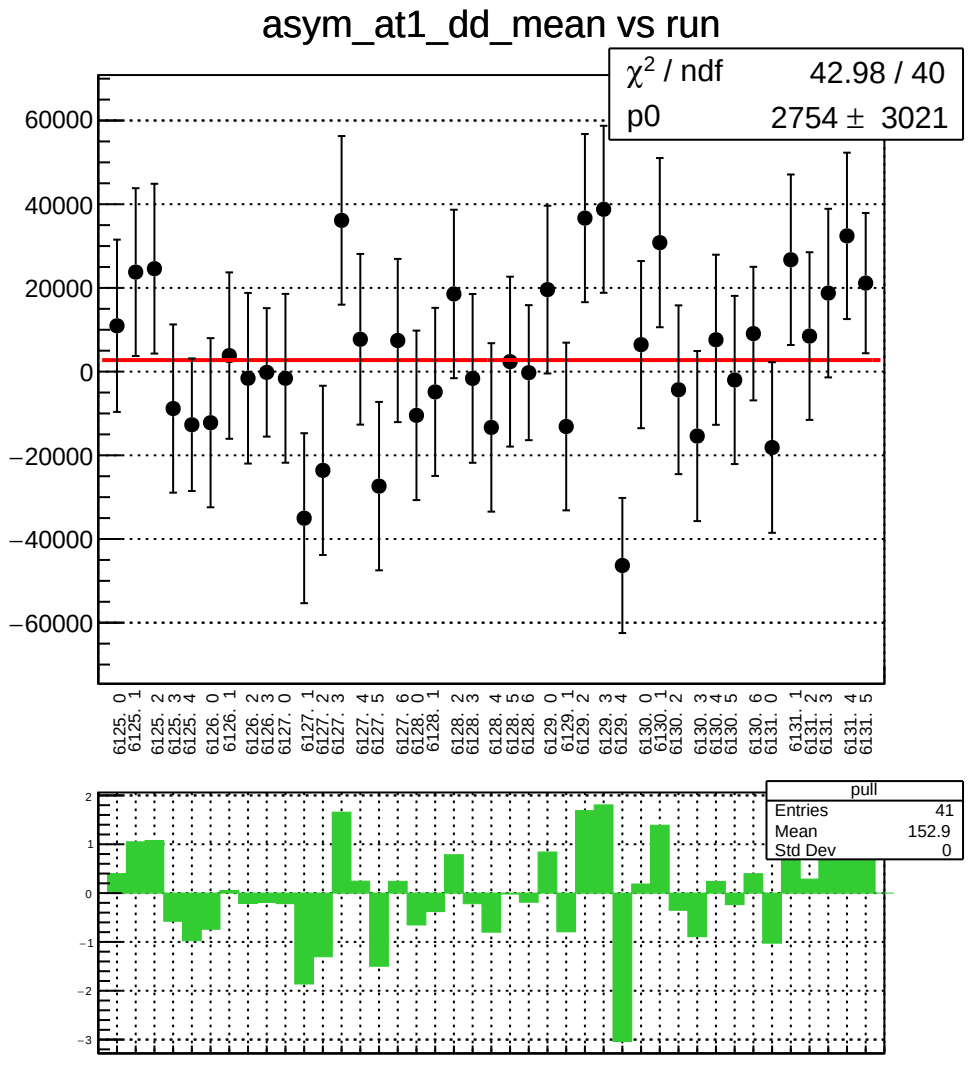
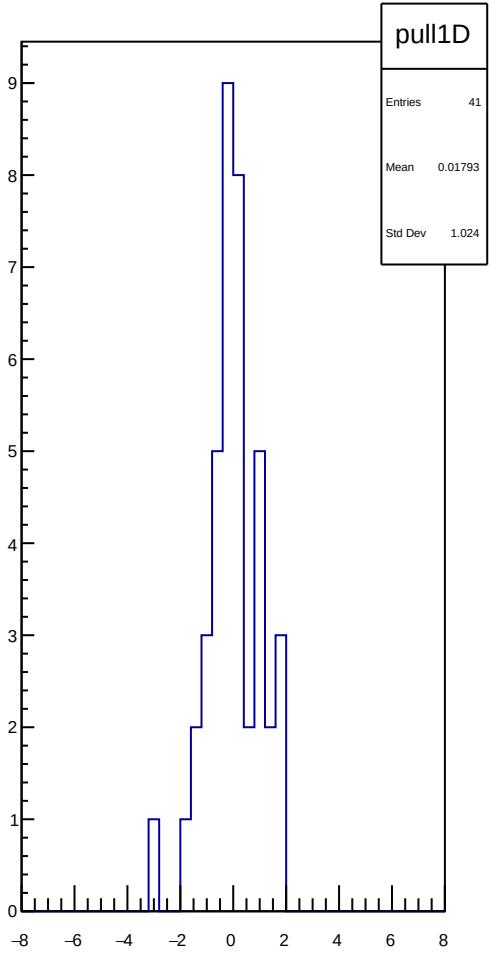
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

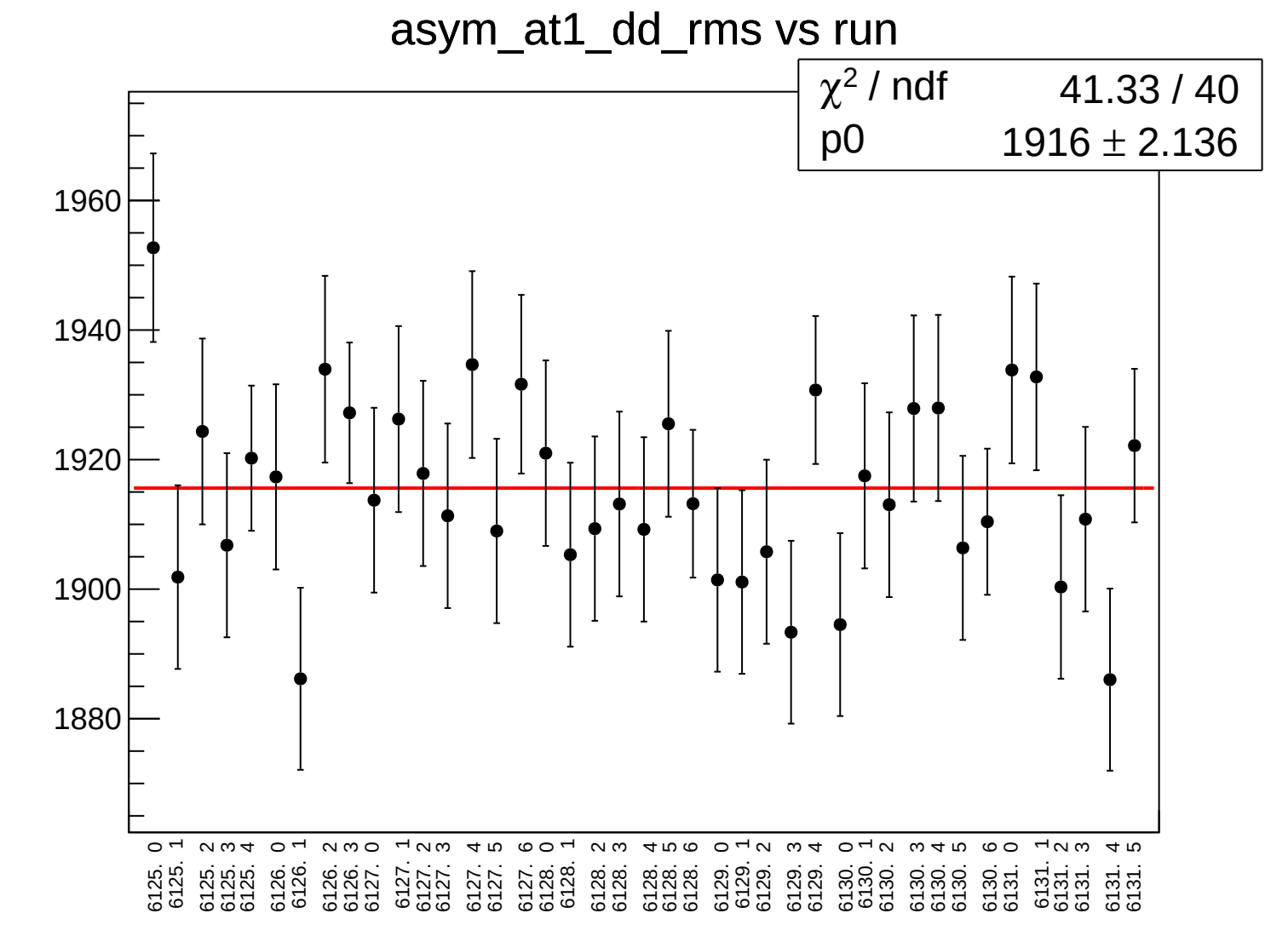

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 24.37 / 40
p0 784.3 ± 803.5
pull
Entries 41
Mean −493.2
Std Dev 0

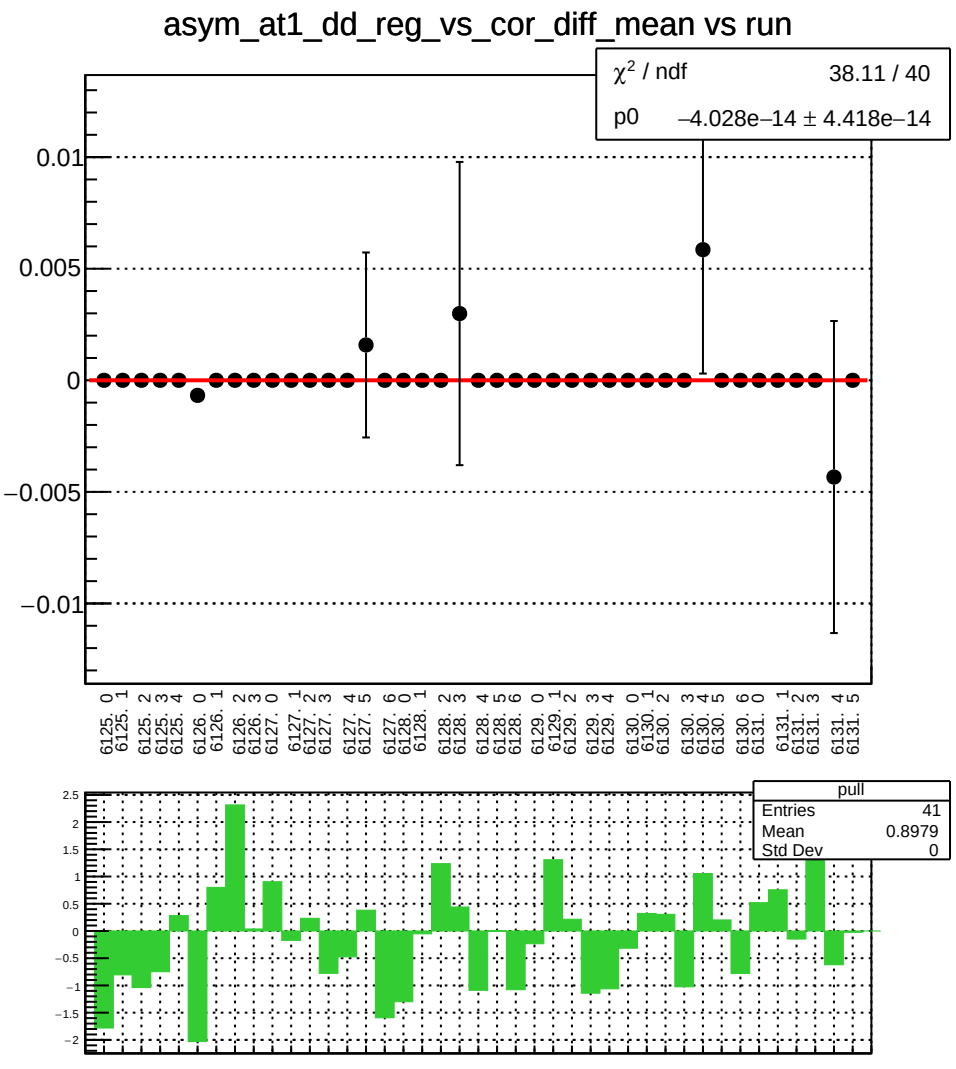

pull1D
Entries 41
Mean 0.005566
Std Dev 0.7709

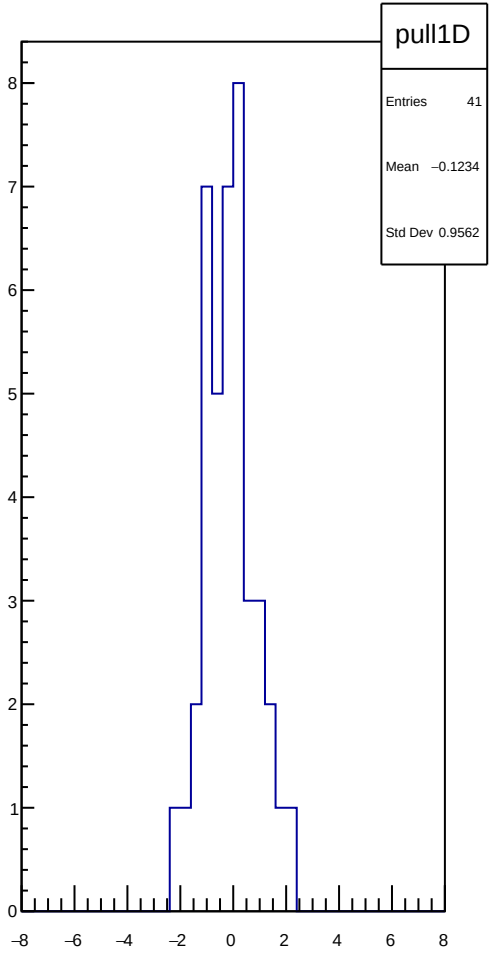

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2364 / 40
p0 508.8 ± 0.5682
580
560
540
520
500
480
460
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

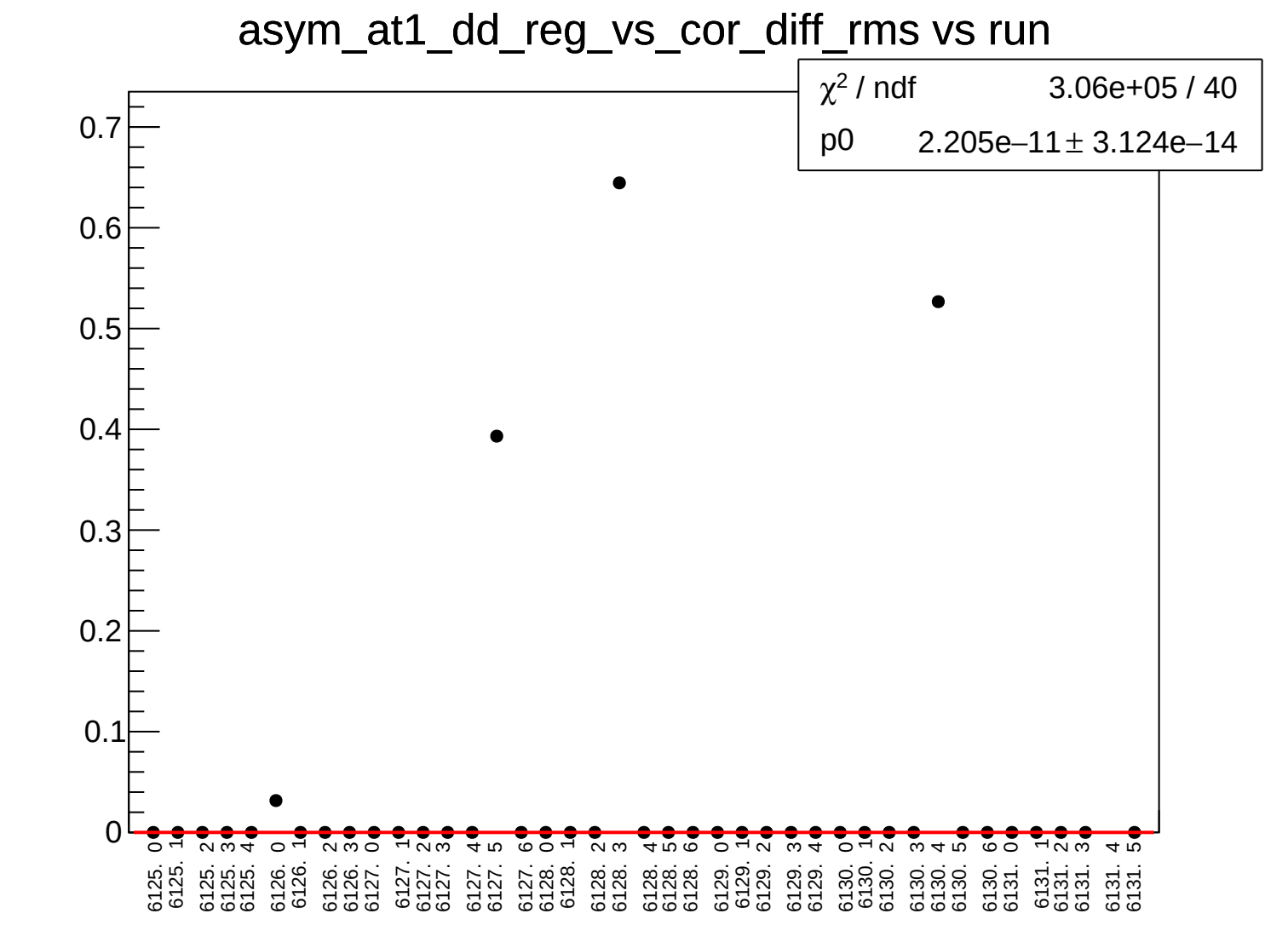

asym_at1_dd_mean vs run
χ² / ndf 42.98 / 40
p0 2754 ± 3021
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 152.9
Std Dev 0
2
1
0
−1
−2
−3

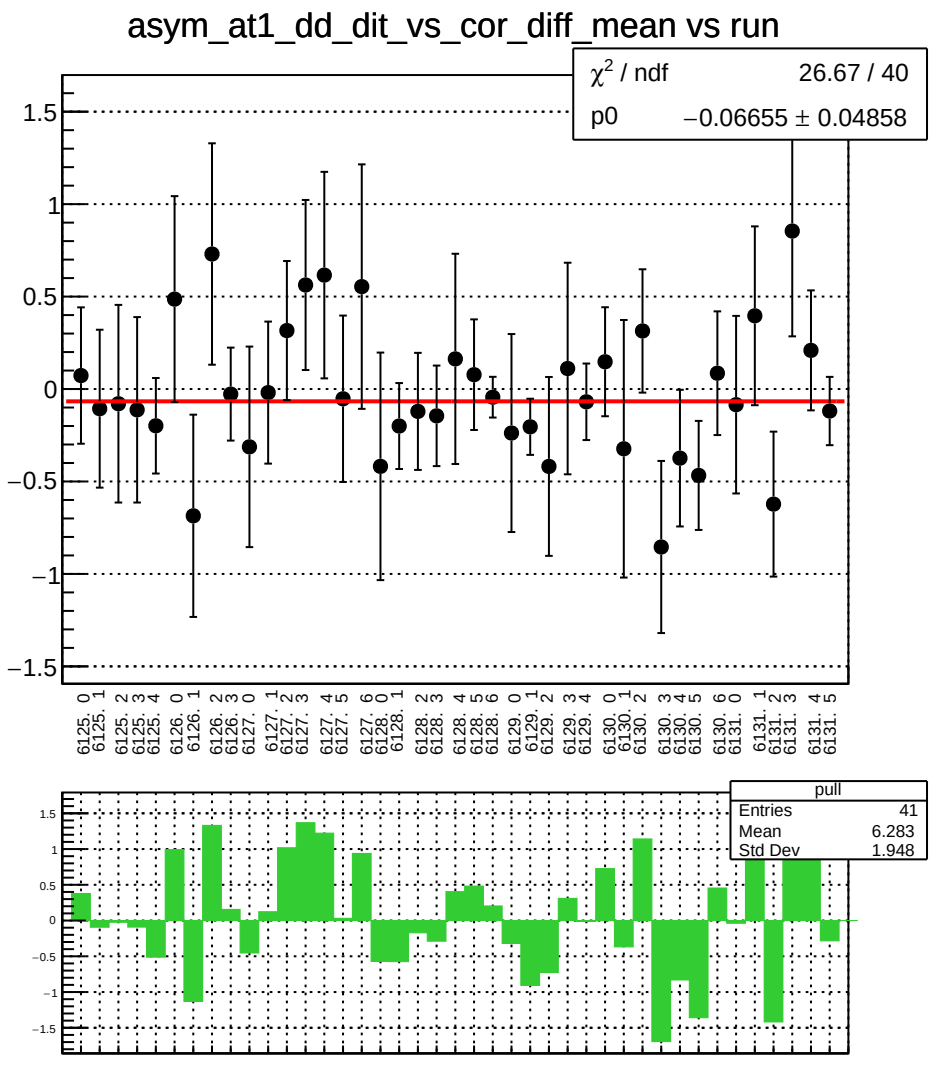

pull1D
Entries 41
Mean 0.01793
Std Dev 1.024
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

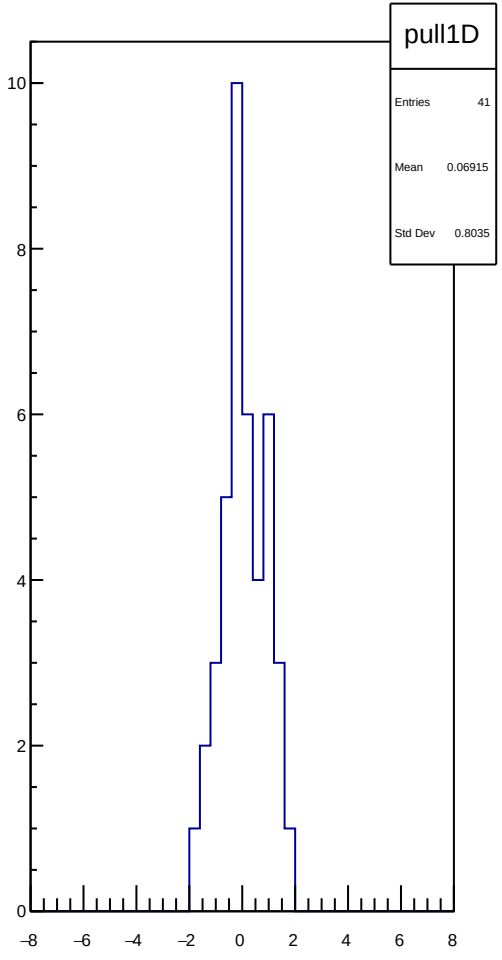

asym_at1_dd_rms vs run
χ² / ndf 41.33 / 40
p0 1916 ± 2.136
1960
1940
1920
1900
1880
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

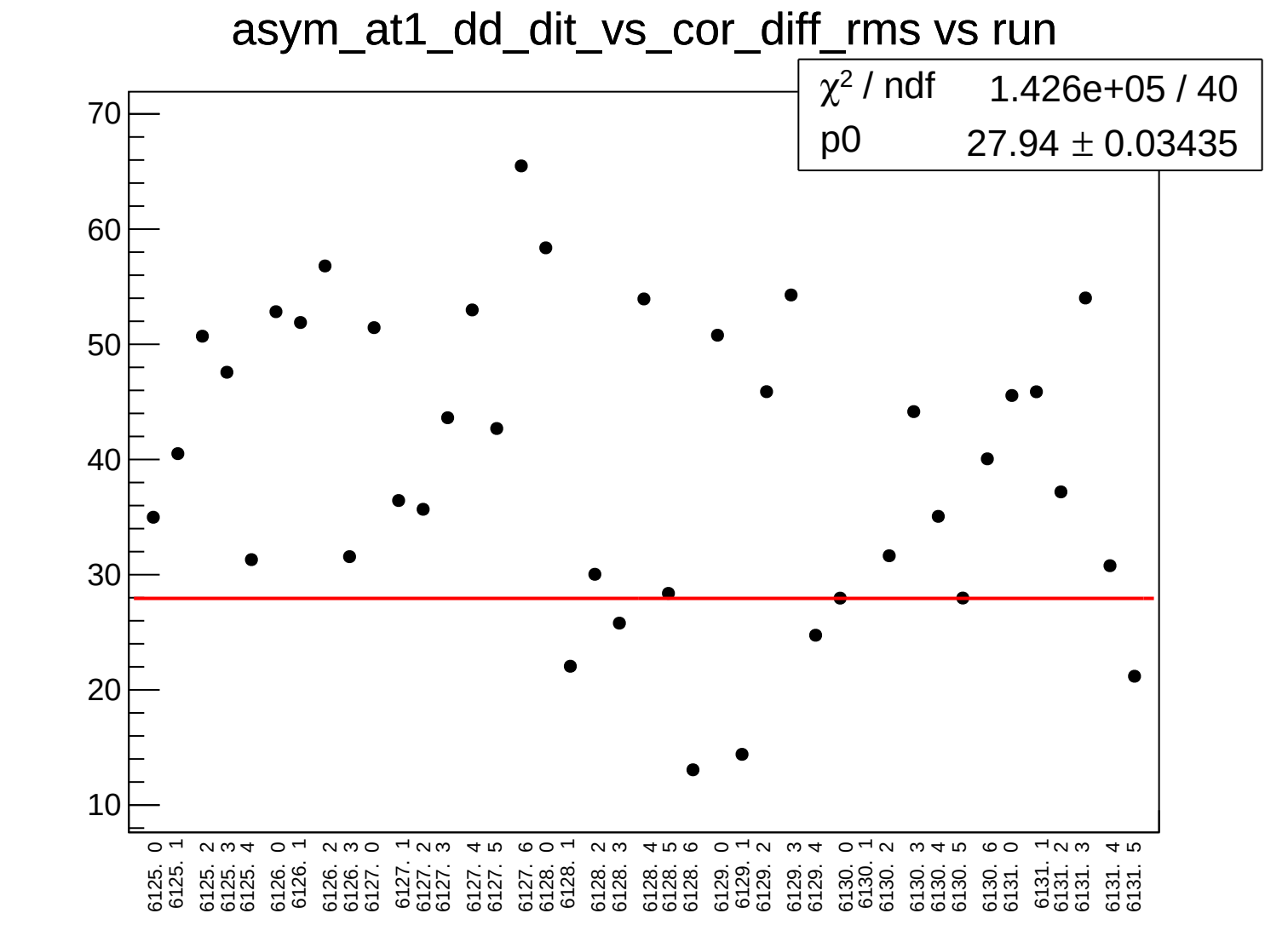

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 38.11 / 40
p0 −4.028e−14 ± 4.418e−14
0.01
0.005
0
−0.005
−0.01
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 0.8979
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

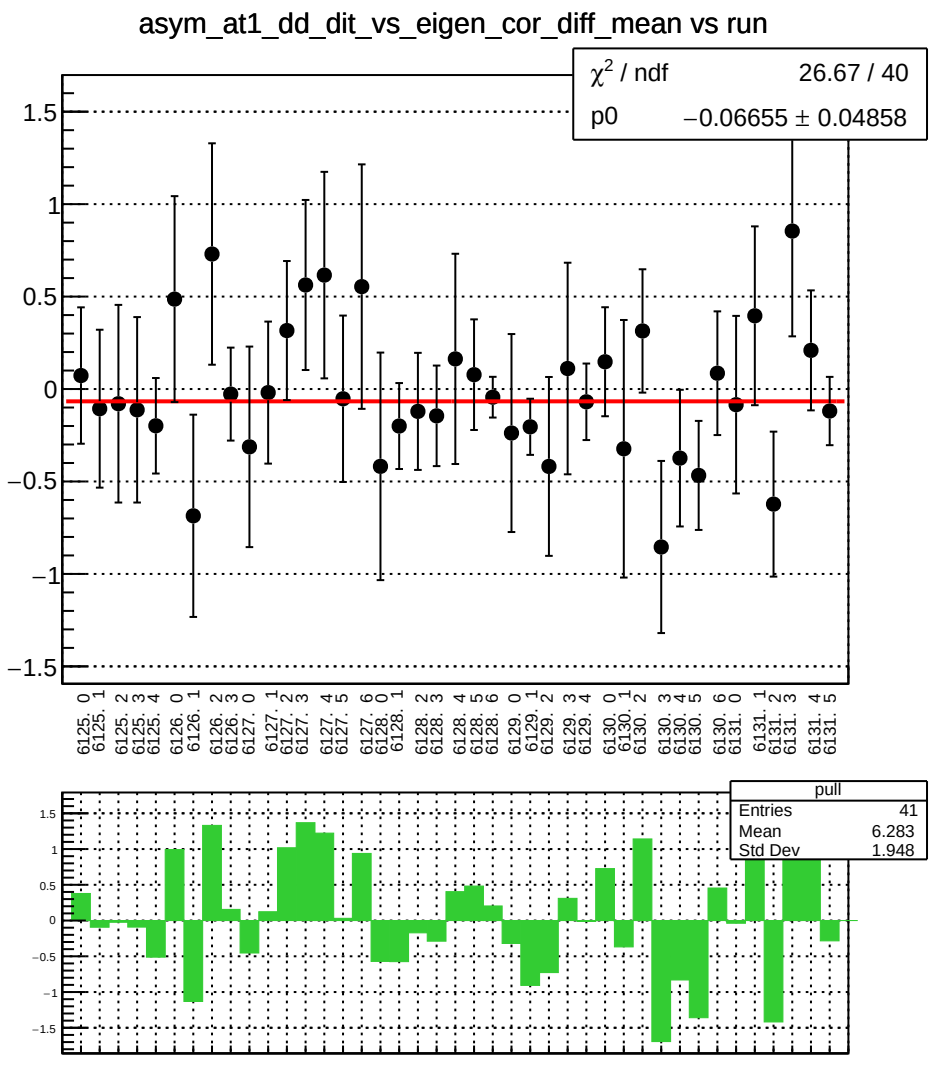

pull1D
Entries 41
Mean −0.1234
Std Dev 0.9562
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

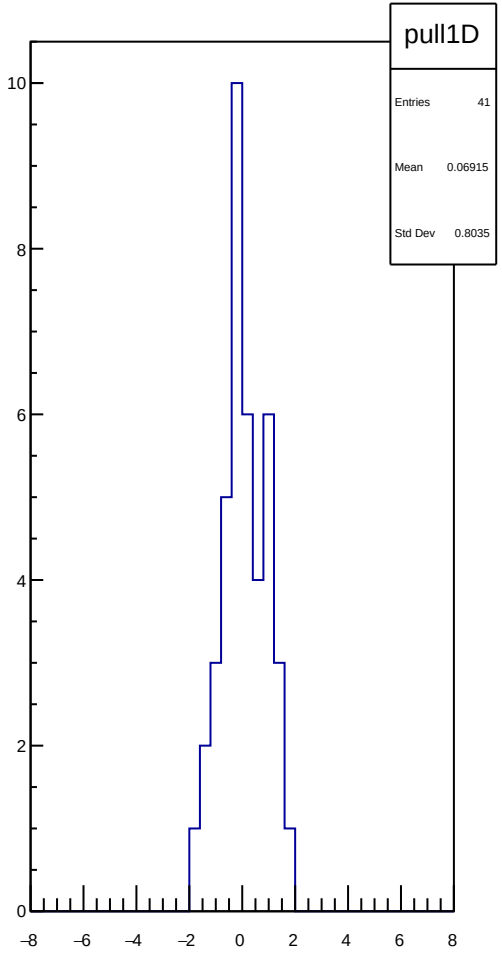

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.06e+05 / 40
p0 2.205e−11 ± 3.124e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

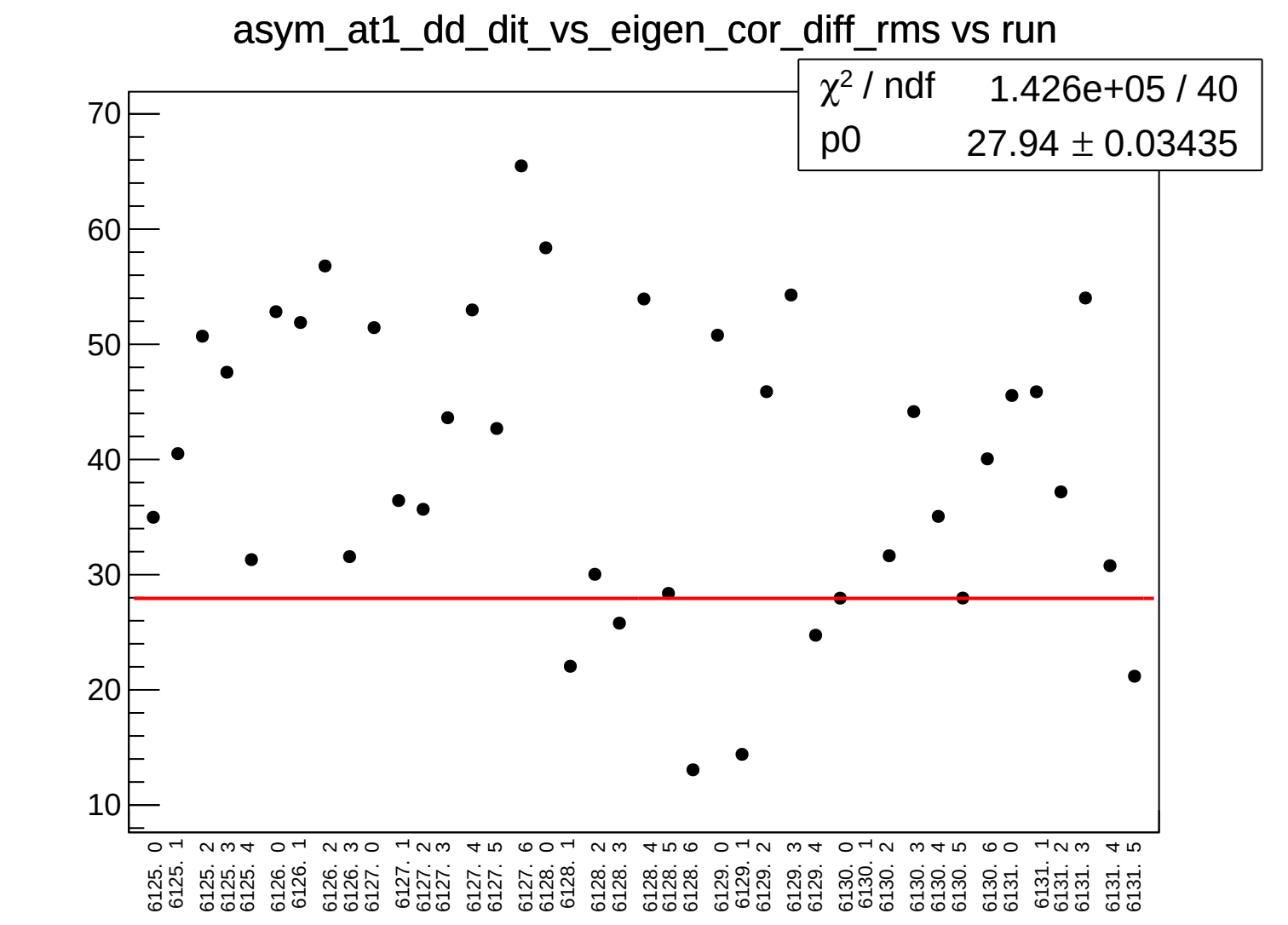

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 26.67 / 40
p0 −0.06655 ± 0.04858
pull
Entries 41
Mean 6.283
Std Dev 1.948

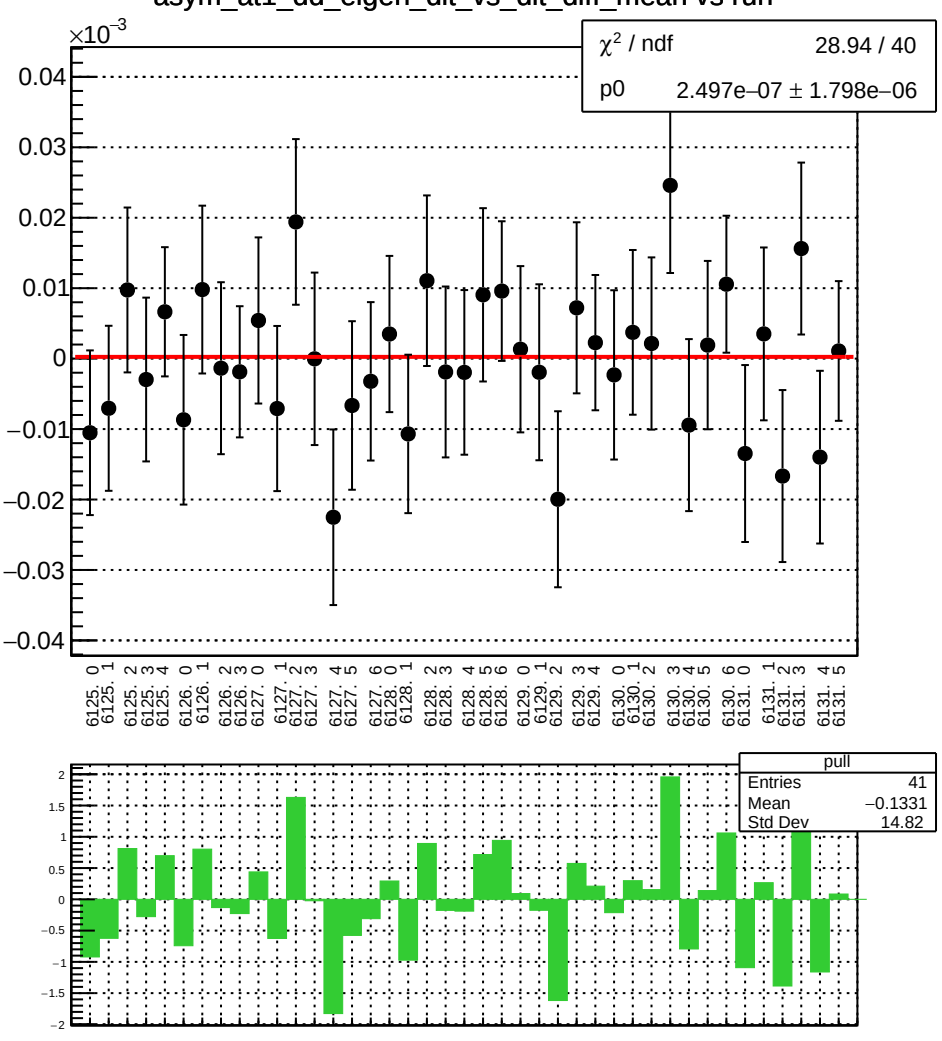

pull1D
Entries 41
Mean 0.06915
Std Dev 0.8035

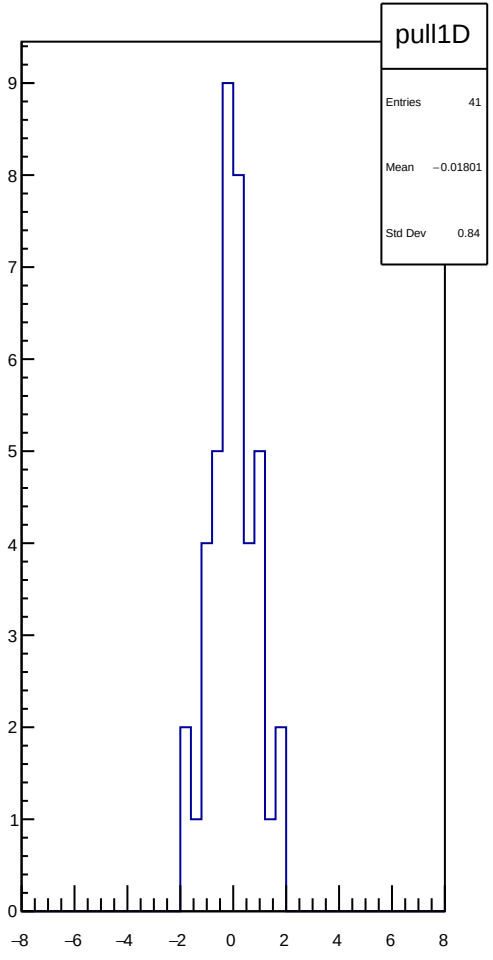

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.426e+05 / 40
p0 27.94 ± 0.03435
70
60
50
40
30
20
10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

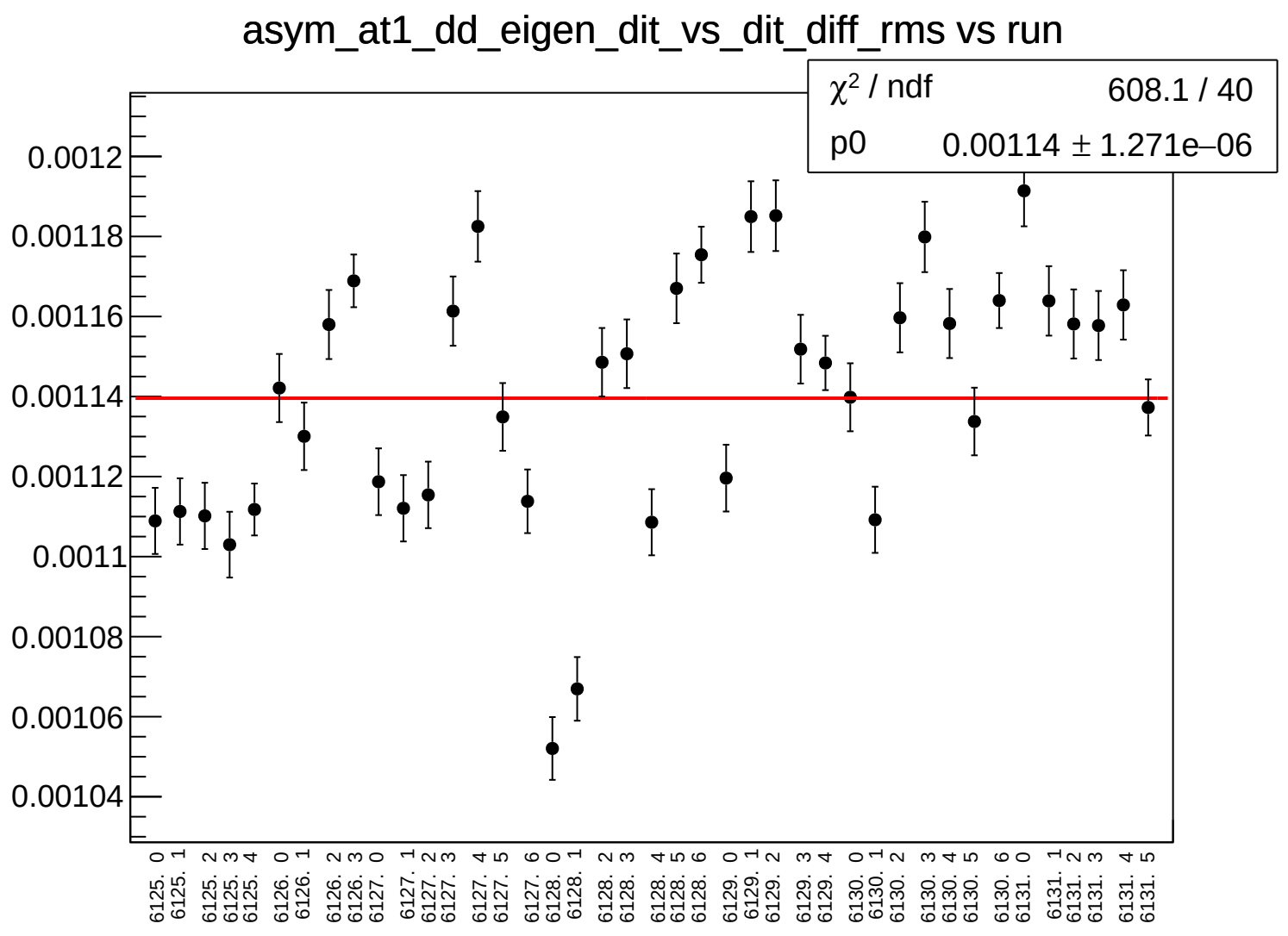

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 26.67 / 40
p0 −0.06655 ± 0.04858
pull
Entries 41
Mean 6.283
Std Dev 1.948

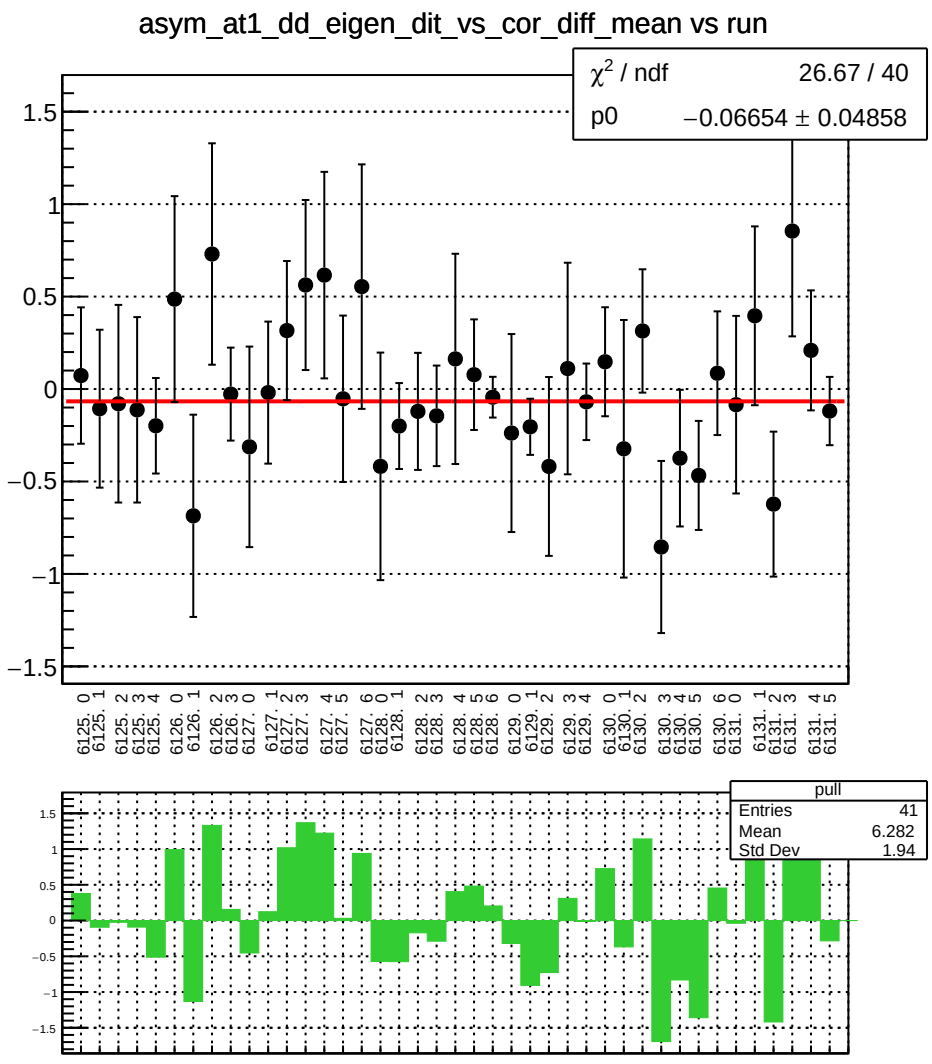

pull1D
Entries 41
Mean 0.06915
Std Dev 0.8035

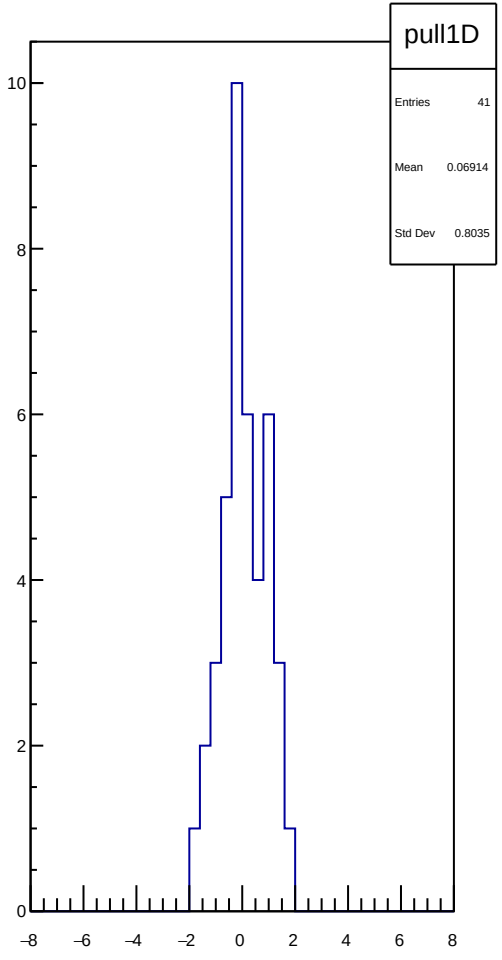

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.426e+05 / 40
p0 27.94 ± 0.03435
70
60
50
40
30
20
10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

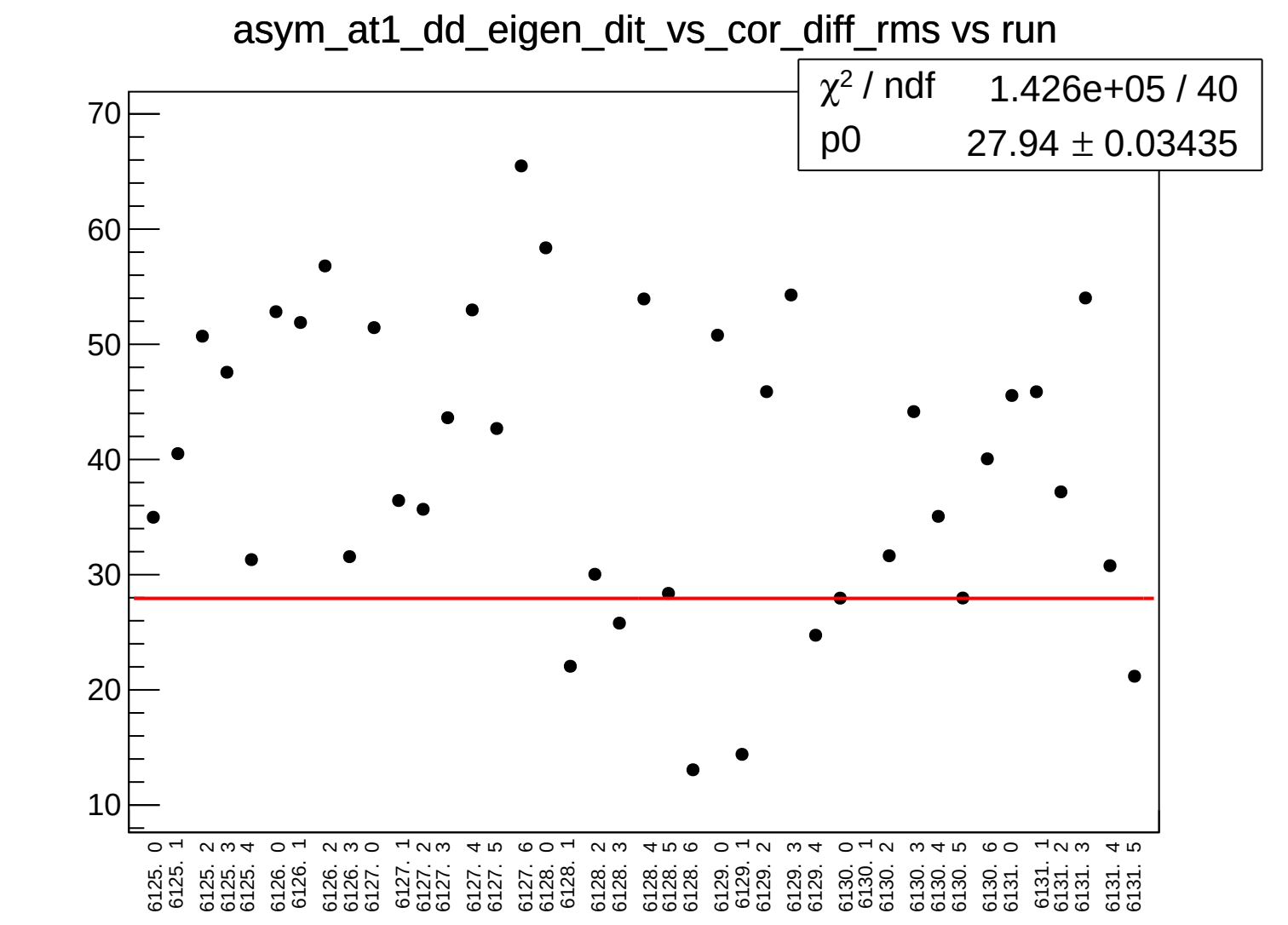

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 28.94 / 40
p0 2.497e−07 ± 1.798e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −0.1331
Std Dev 14.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.01801
Std Dev 0.84
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

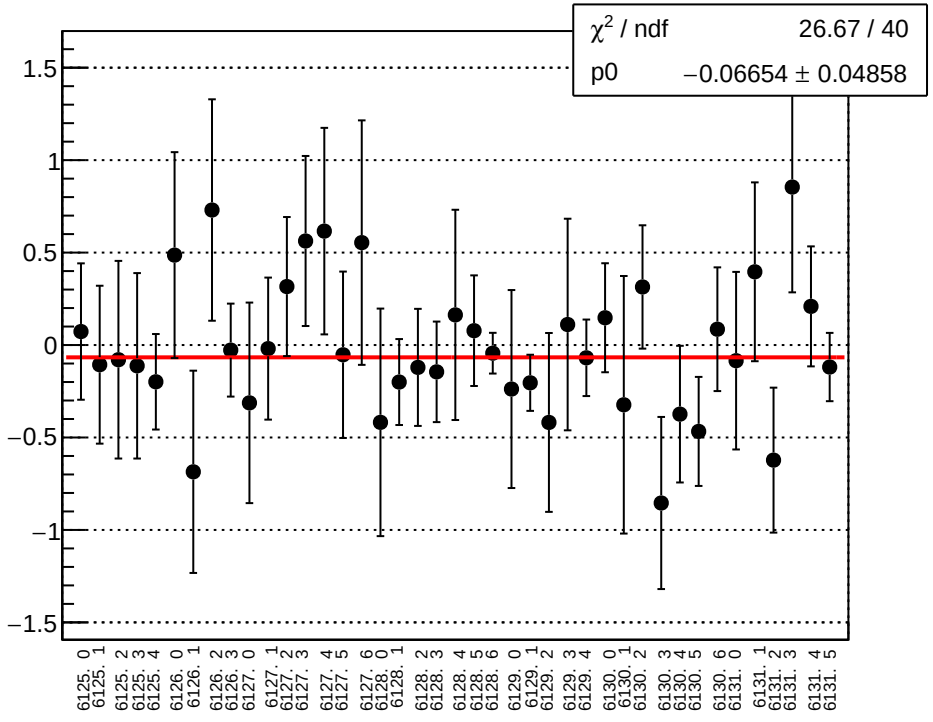

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 608.1 / 40
p0 0.00114 ± 1.271e–06
0.0012
0.00118
0.00116
0.00114
0.00112
0.0011
0.00108
0.00106
0.00104
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

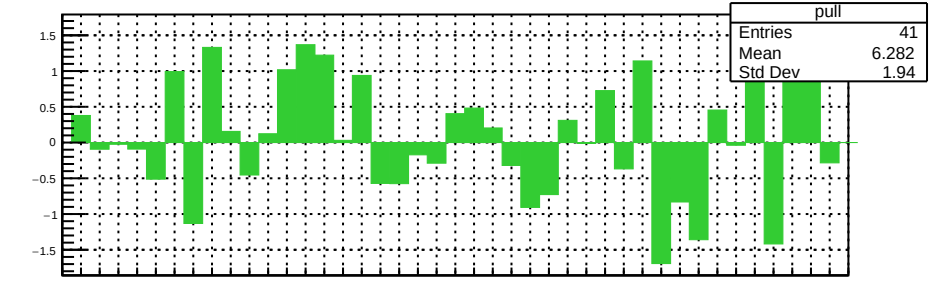

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 26.67 / 40
p0 −0.06654 ± 0.04858
pull
Entries 41
Mean 6.282
Std Dev 1.94

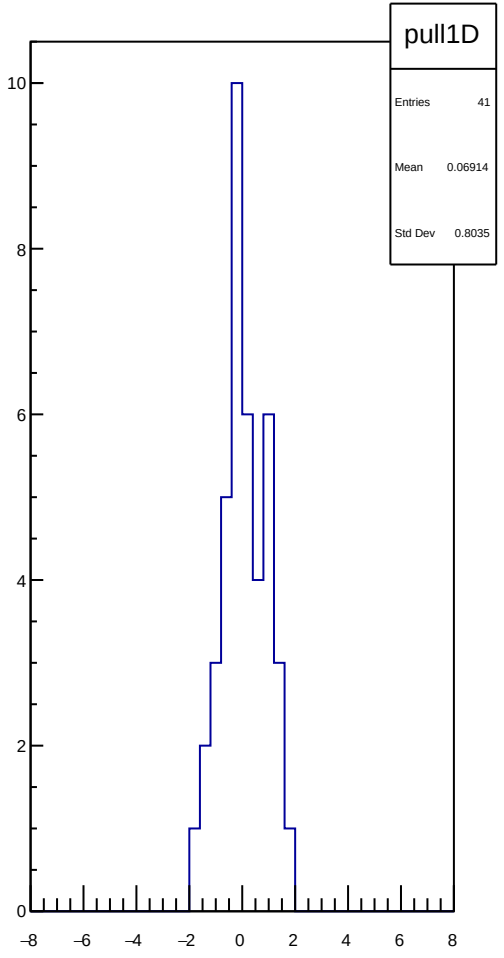

pull1D
Entries 41
Mean 0.06914
Std Dev 0.8035

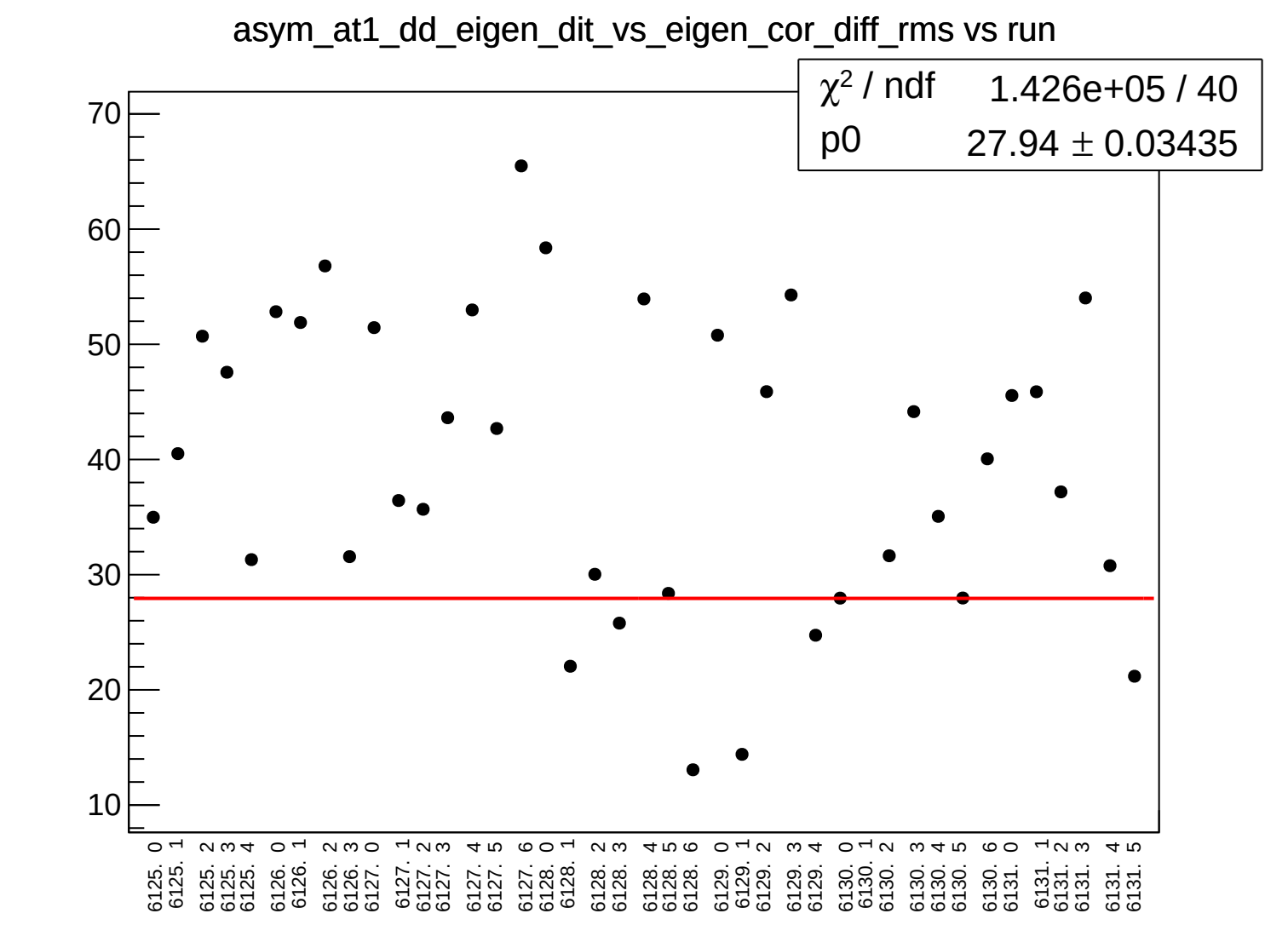

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.426e+05 / 40
p0 27.94 ± 0.03435
70
60
50
40
30
20
10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

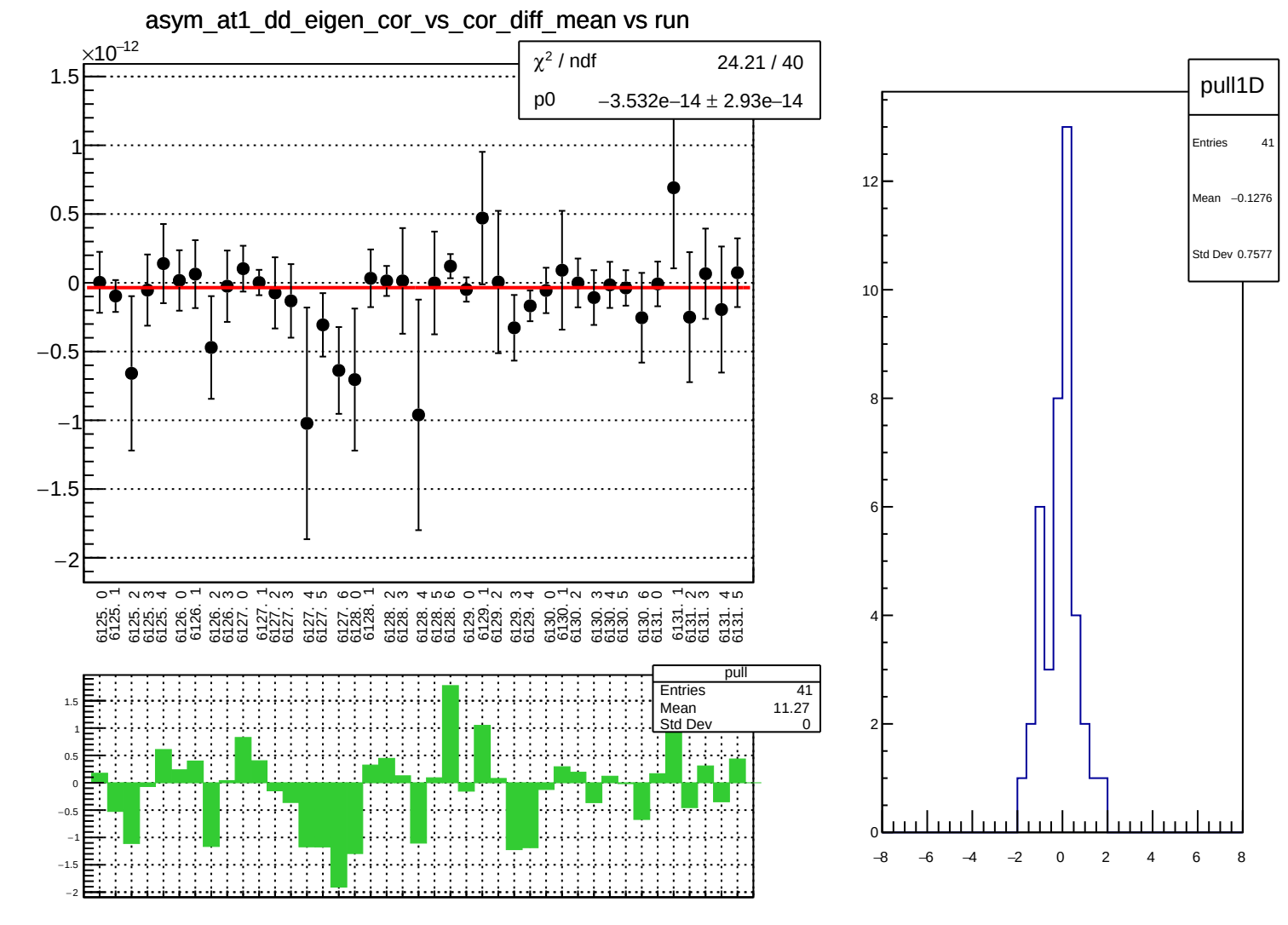
asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

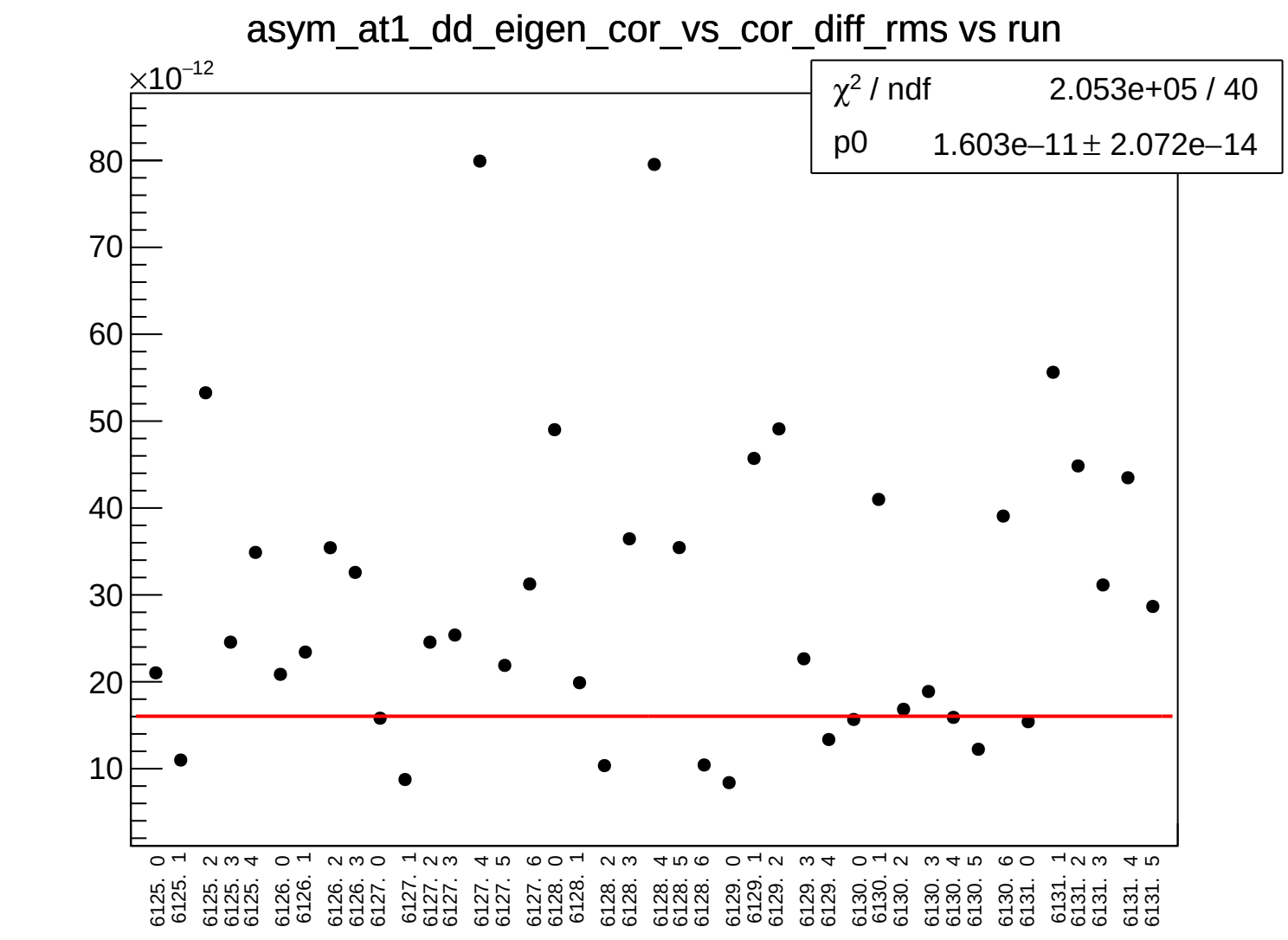


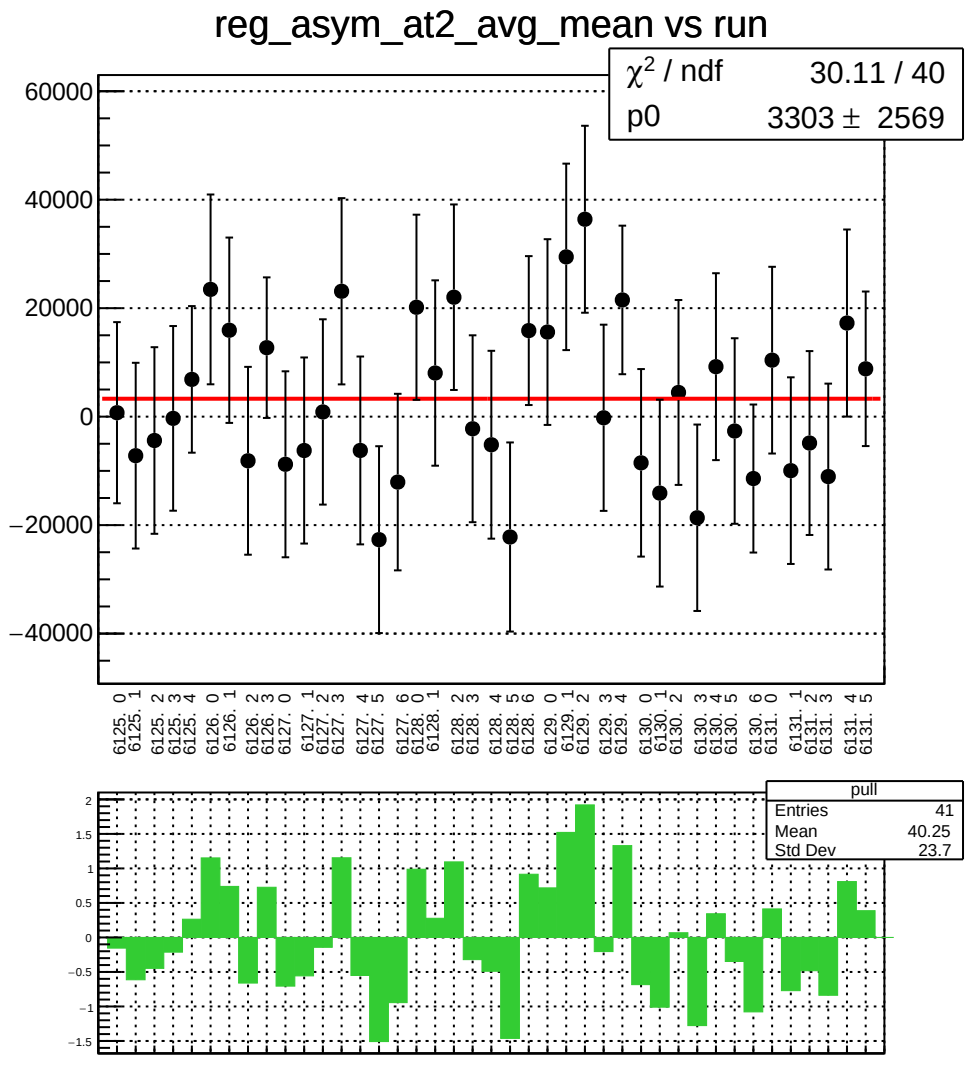


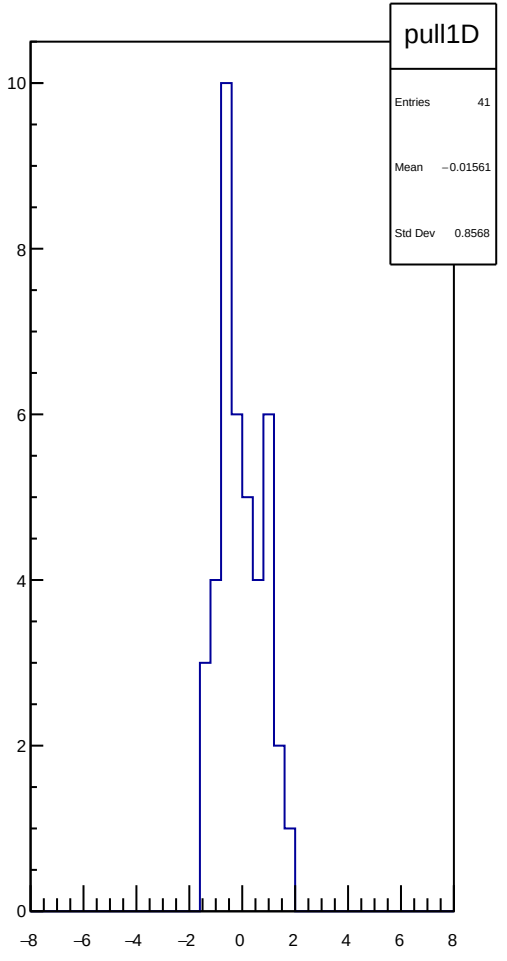


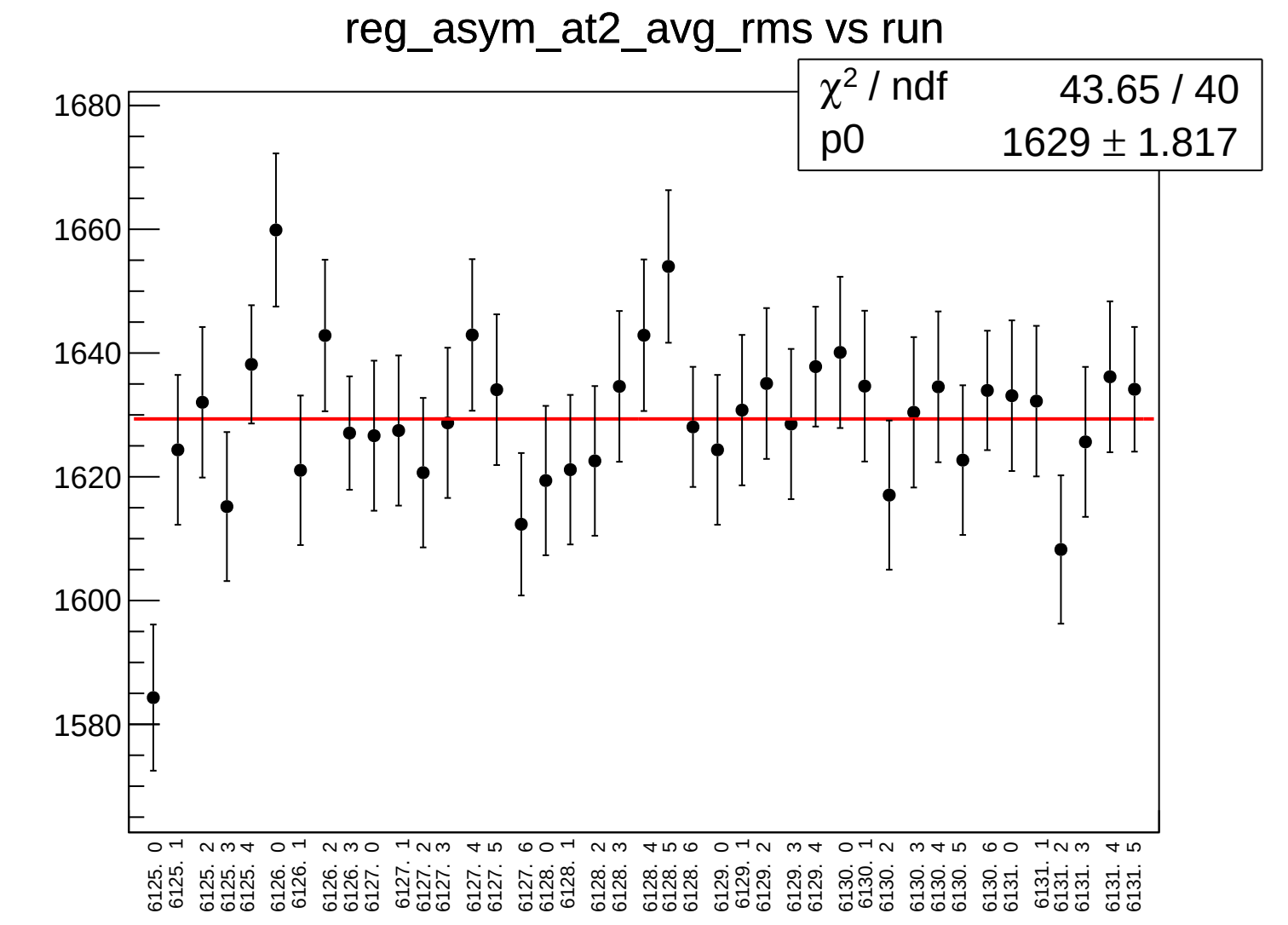

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.426e+05 / 40
p0 27.94 ± 0.03435
70
60
50
40
30
20
10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

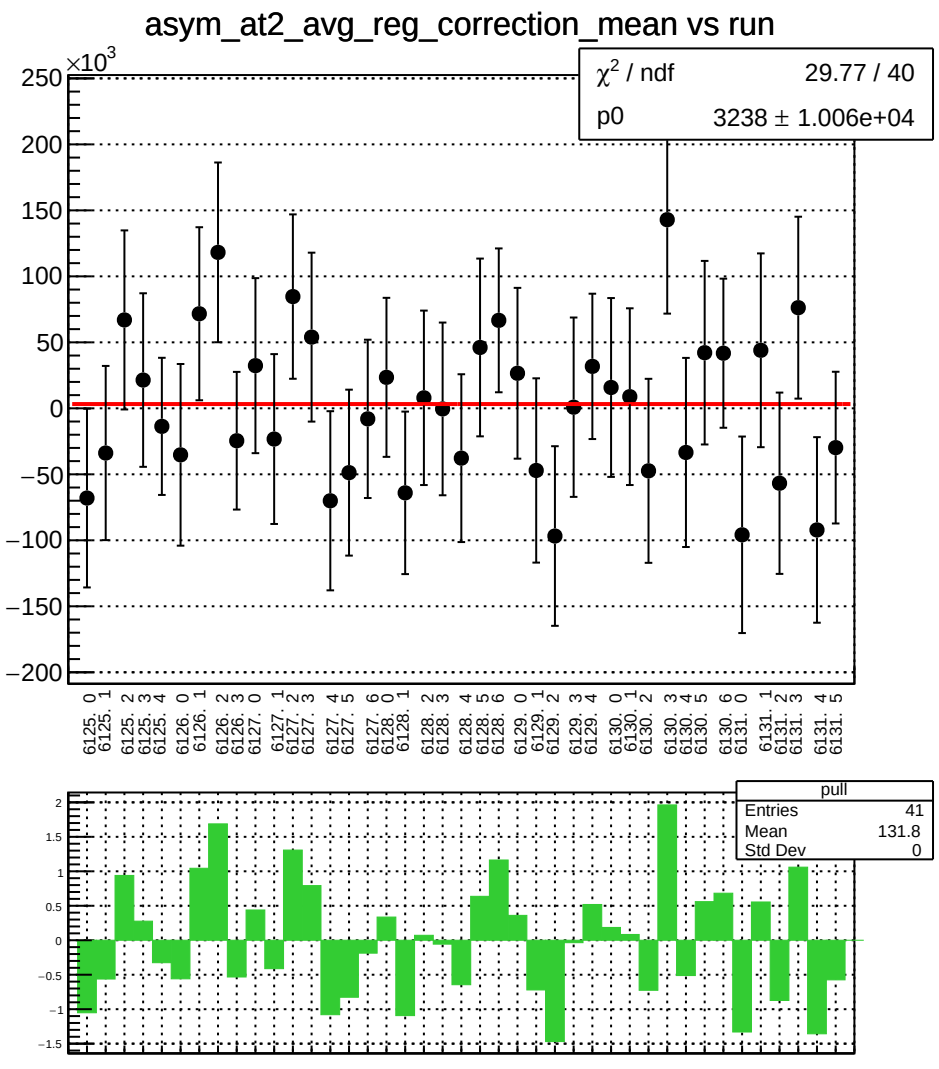

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 24.21 / 40
p0 −3.532e−14 ± 2.93e−14
pull
Entries 41
Mean 11.27
Std Dev 0
pull1D
Entries 41
Mean −0.1276
Std Dev 0.7577

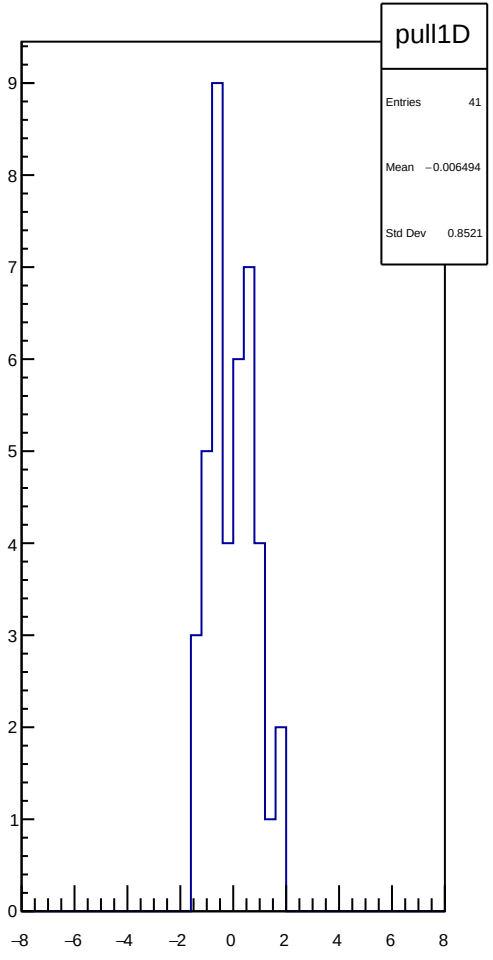

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.053e+05 / 40
p0 1.603e−11 ± 2.072e−14
80
70
60
50
40
30
20
10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

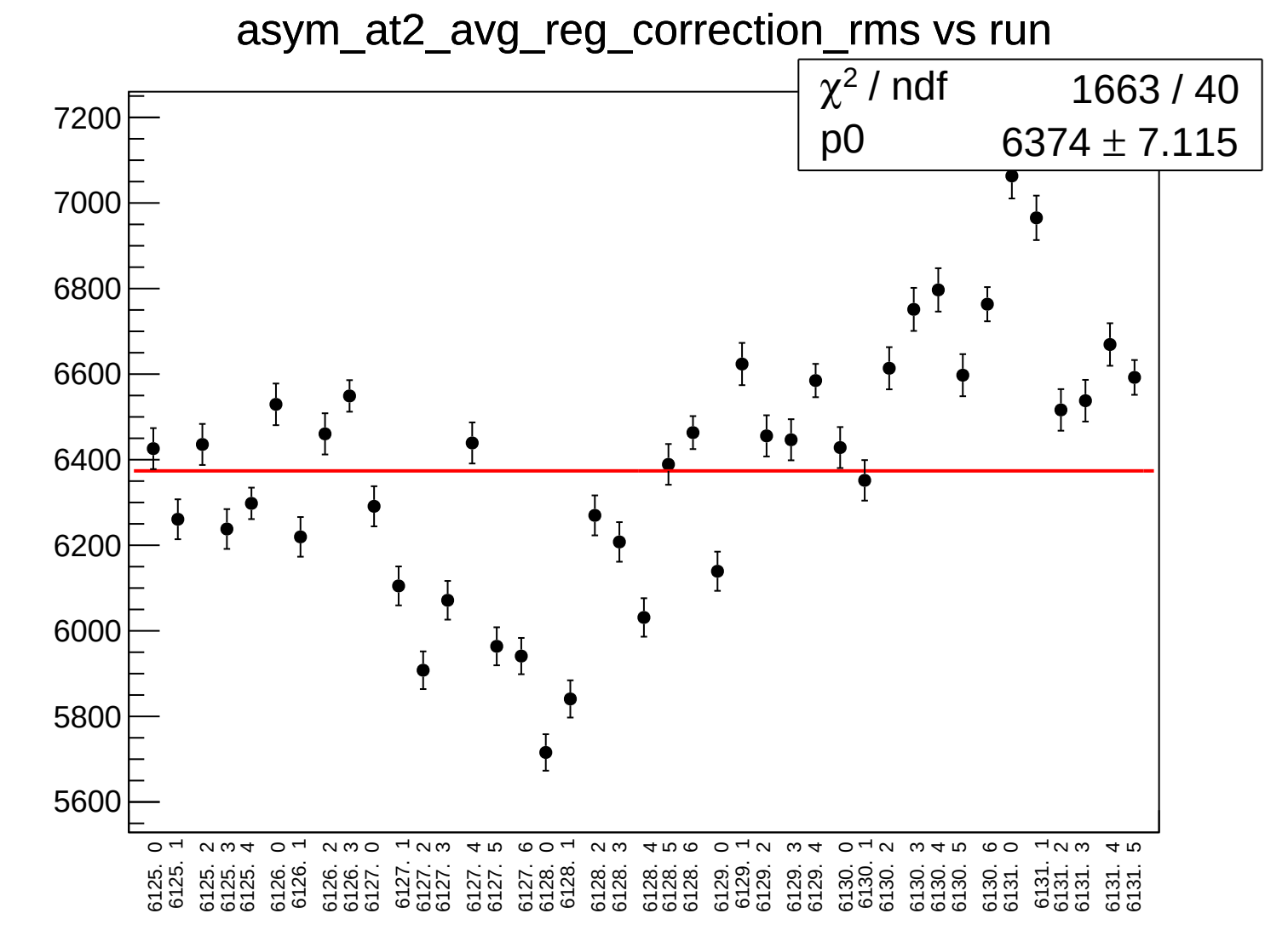

reg_asym_at2_avg_mean vs run
χ² / ndf 30.11 / 40
p0 3303 ± 2569
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 40.25
Std Dev 23.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

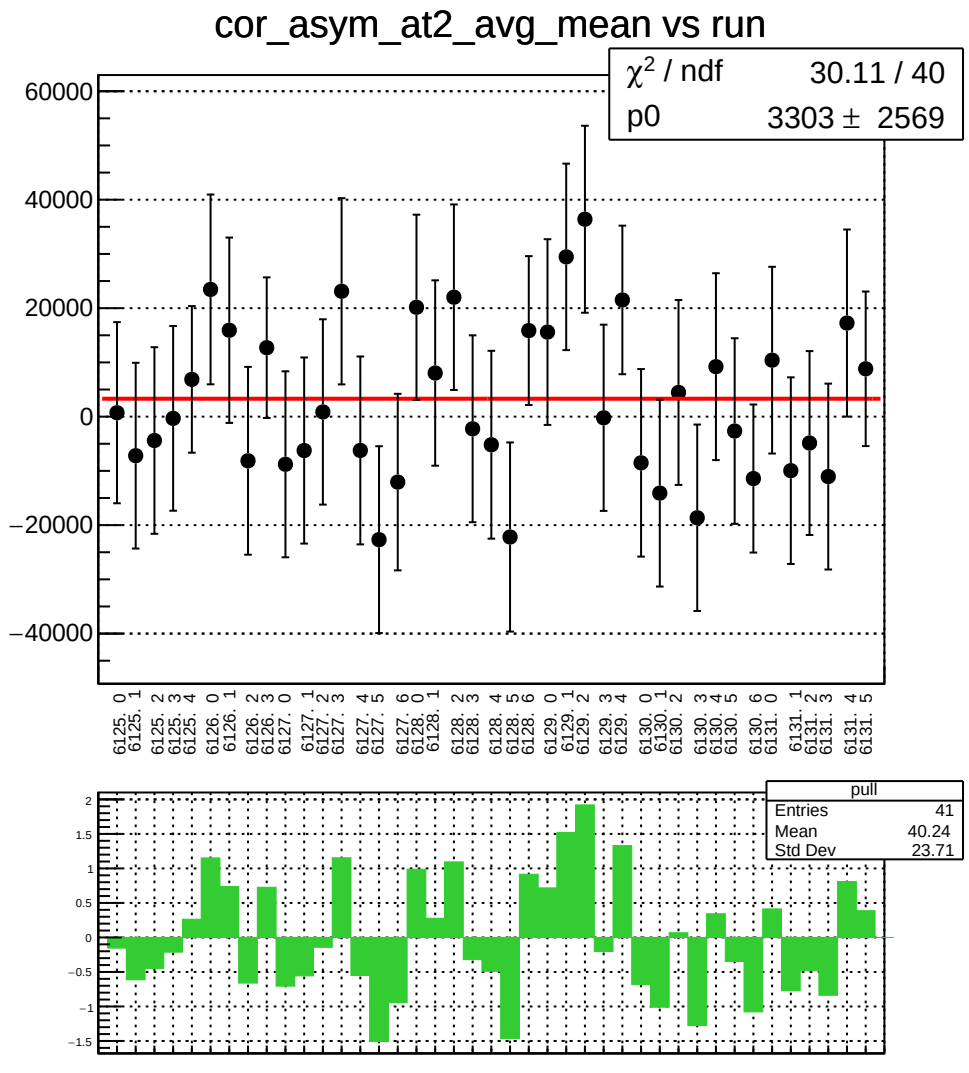

pull1D
Entries 41
Mean −0.01561
Std Dev 0.8568
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

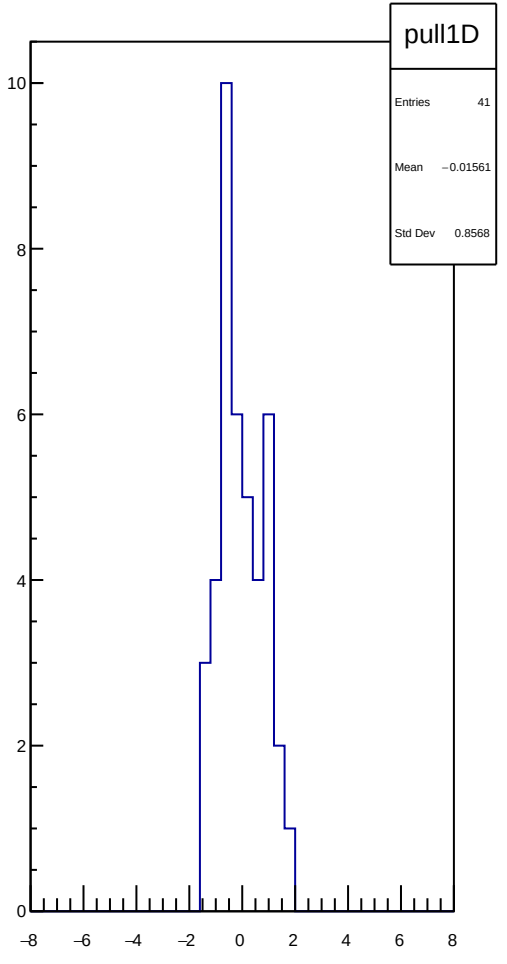

reg_asym_at2_avg_rms vs run
χ² / ndf 43.65 / 40
p0 1629 ± 1.817
1680
1660
1640
1620
1600
1580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

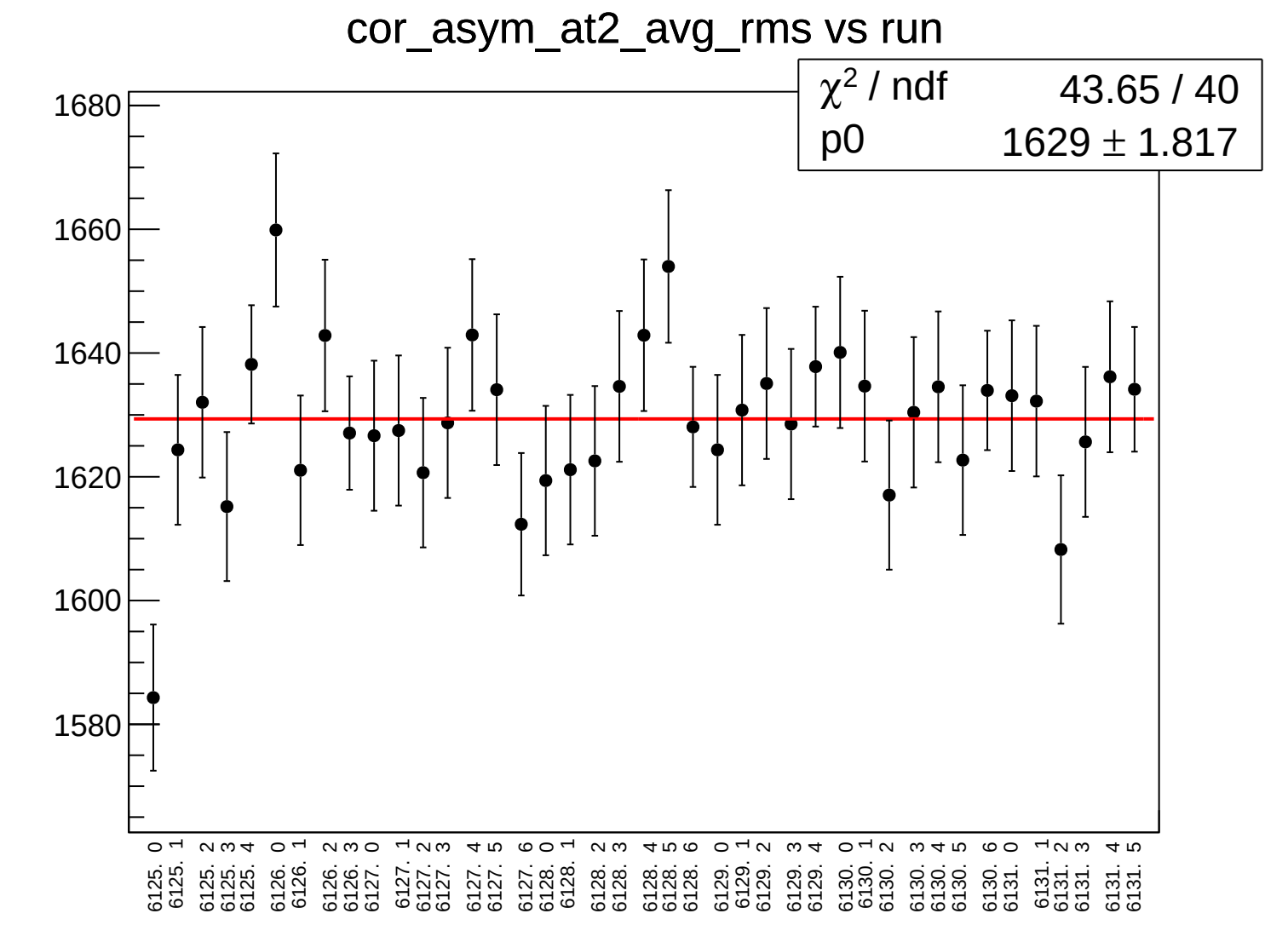

asym_at2_avg_reg_correction_mean vs run
χ² / ndf 29.77 / 40
p0 3238 ± 1.006e+04
×10³
pull
Entries 41
Mean 131.8
Std Dev 0

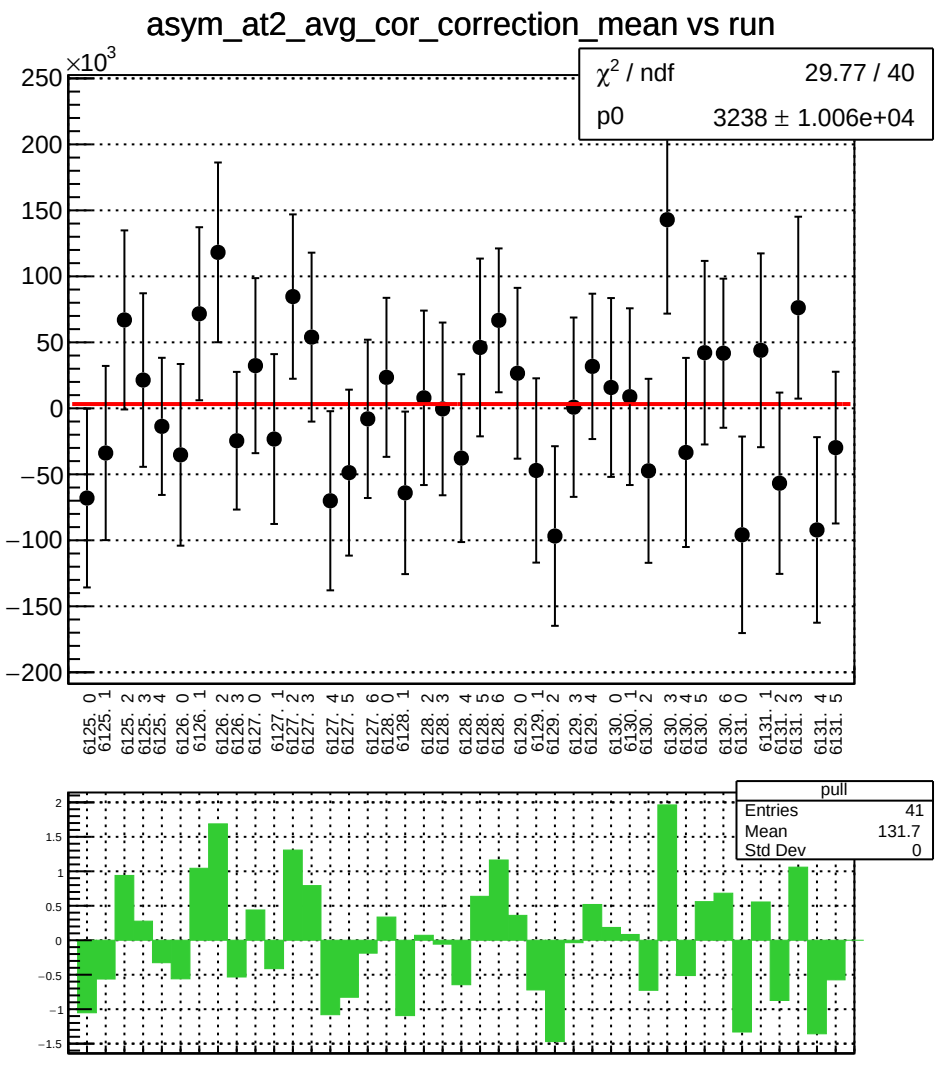

pull1D
Entries 41
Mean −0.006494
Std Dev 0.8521

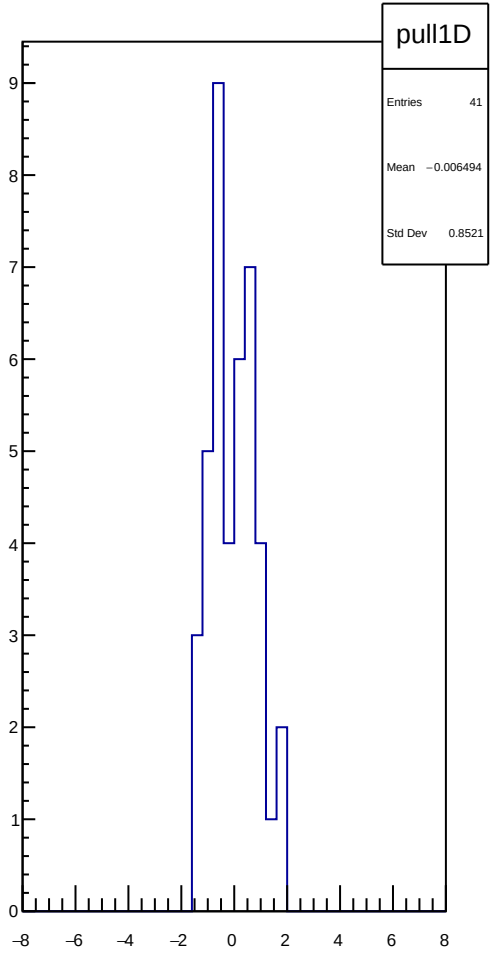

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 1663 / 40
p0 6374 ± 7.115
7200
7000
6800
6600
6400
6200
6000
5800
5600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

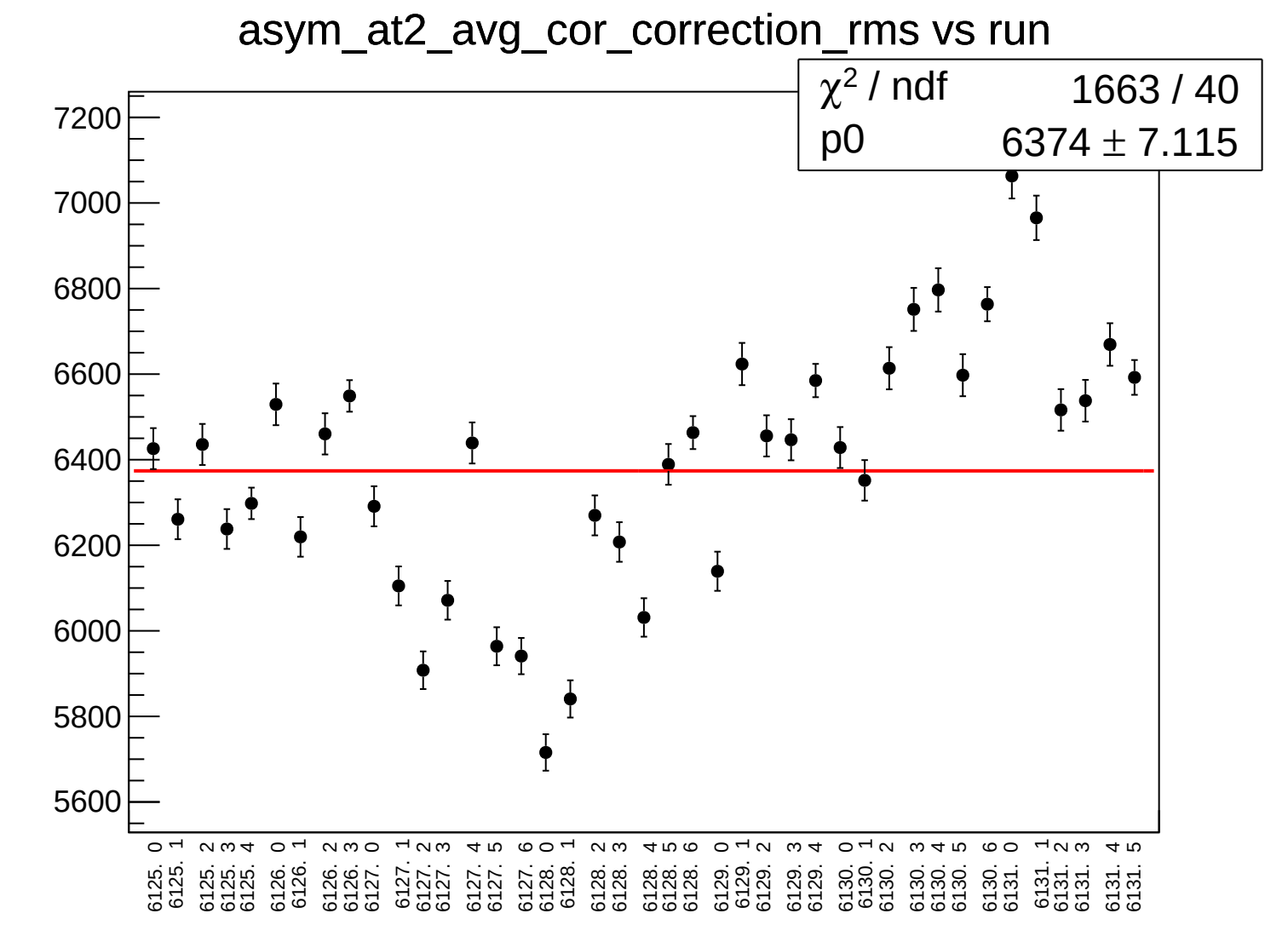

cor_asym_at2_avg_mean vs run
χ² / ndf 30.11 / 40
p0 3303 ± 2569
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 40.24
Std Dev 23.71
2
1.5
1
0.5
0
−0.5
−1
−1.5

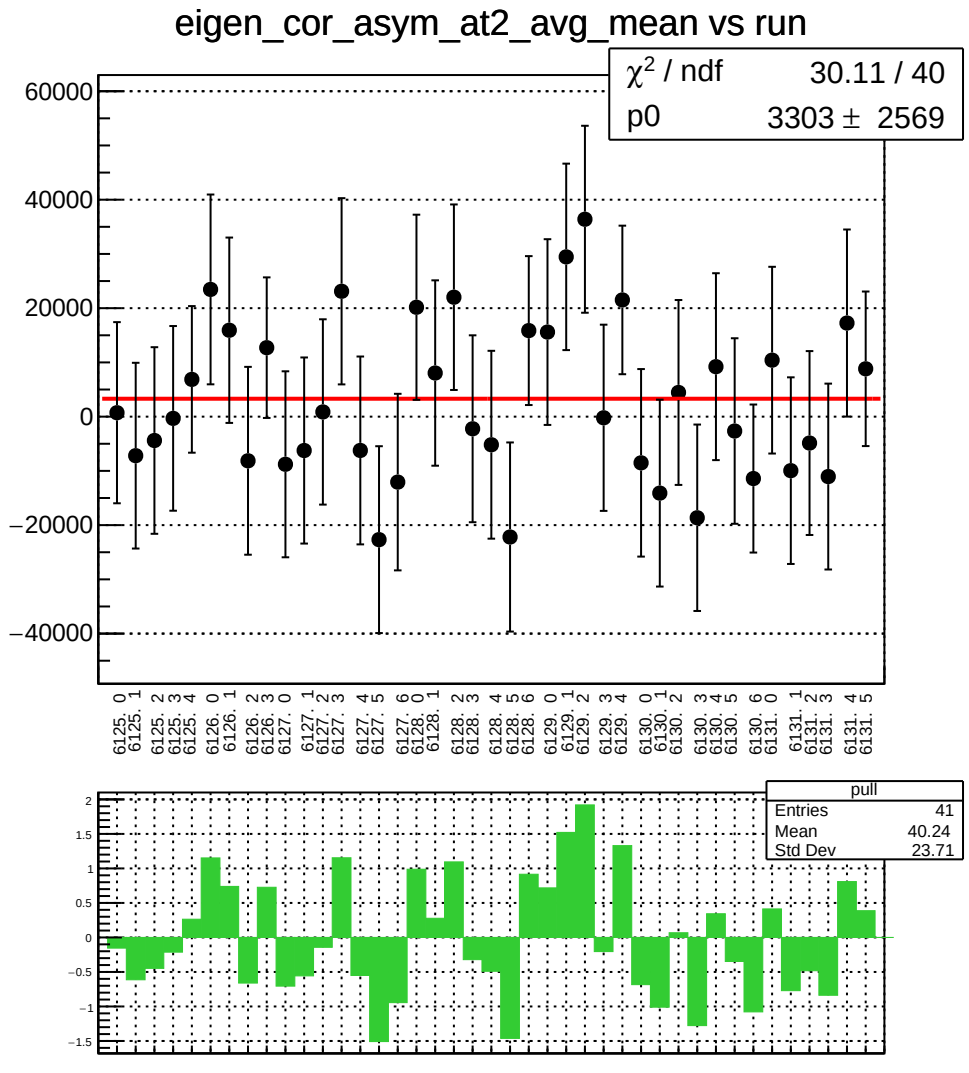

pull1D
Entries 41
Mean −0.01561
Std Dev 0.8568
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

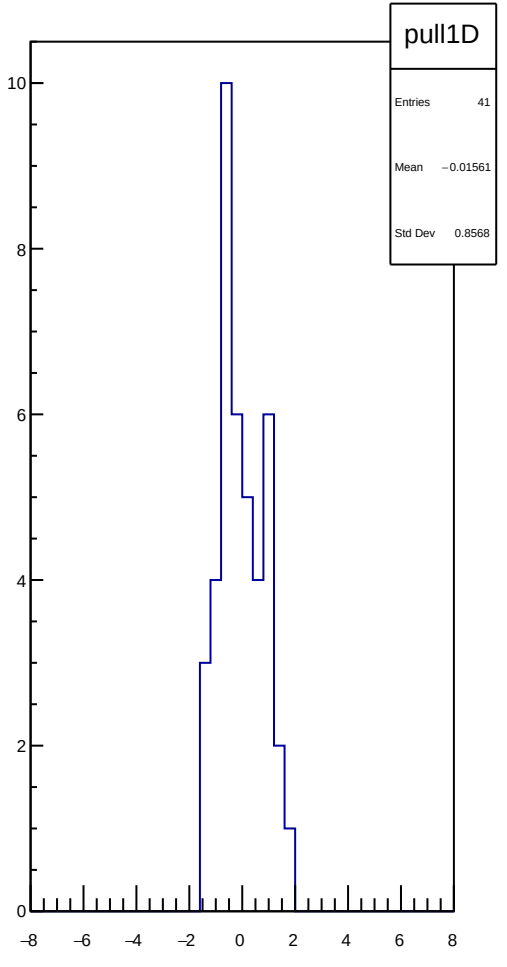

cor_asym_at2_avg_rms vs run
χ² / ndf 43.65 / 40
p0 1629 ± 1.817
1680
1660
1640
1620
1600
1580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

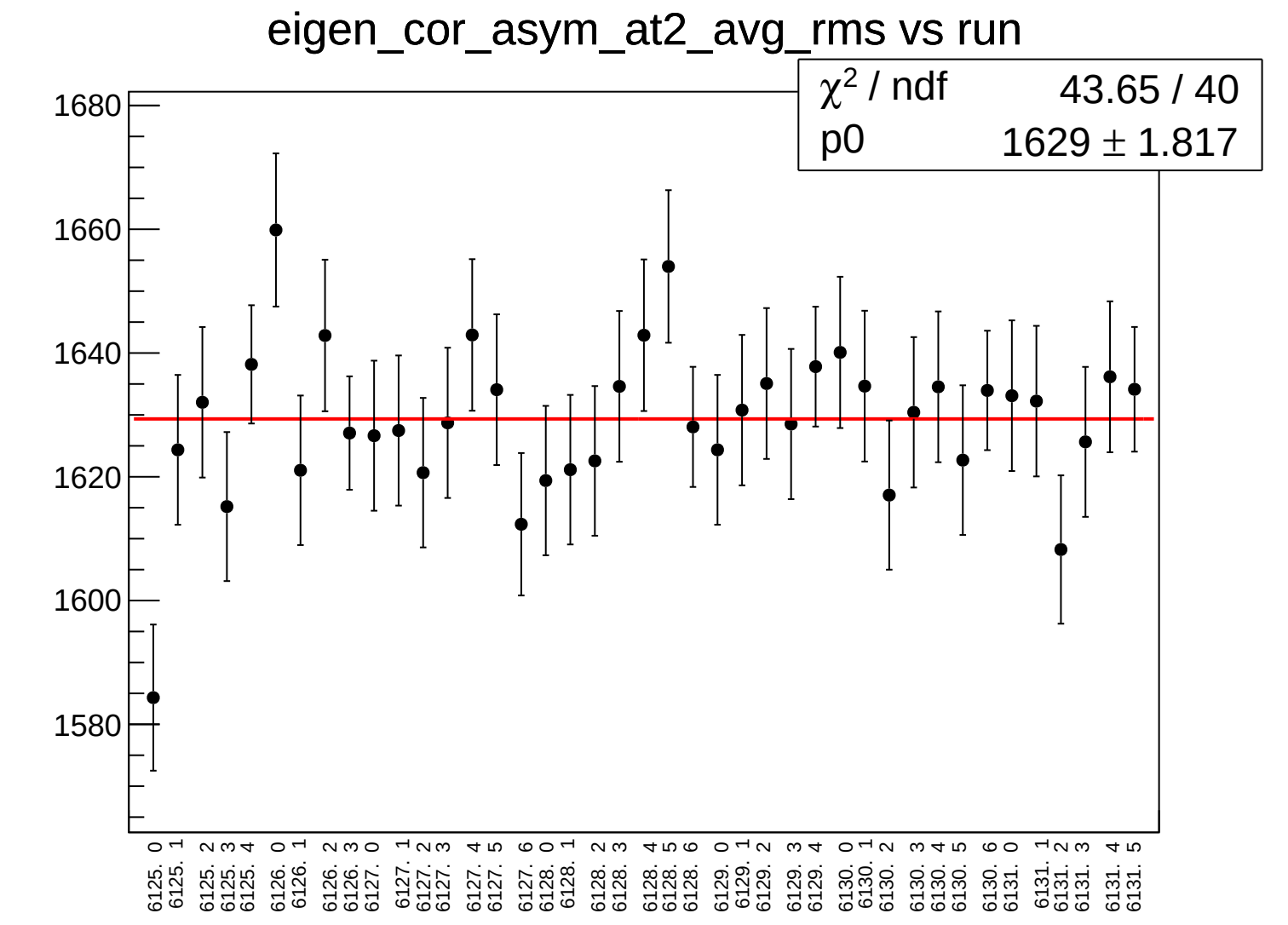

asym_at2_avg_cor_correction_mean vs run
χ² / ndf 29.77 / 40
p0 3238 ± 1.006e+04
×10³
pull
Entries 41
Mean 131.7
Std Dev 0

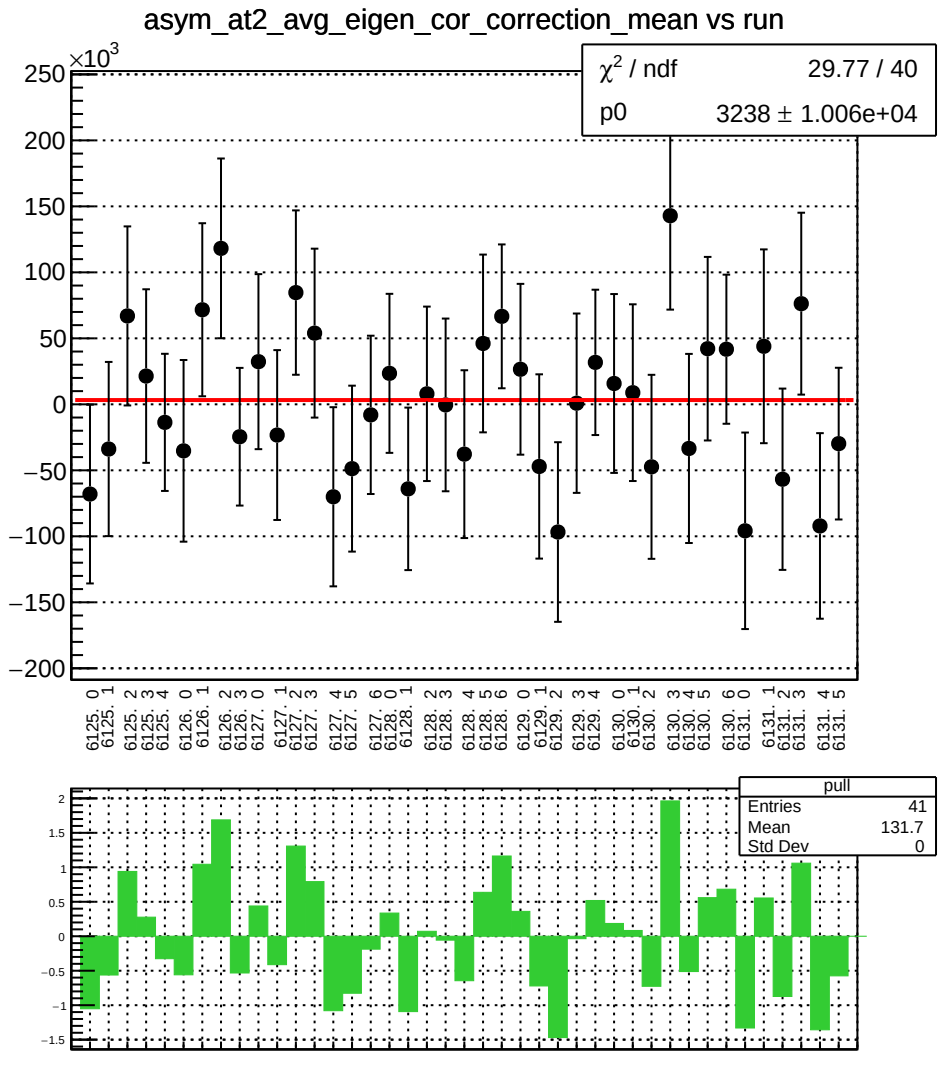

pull1D
Entries 41
Mean −0.006494
Std Dev 0.8521

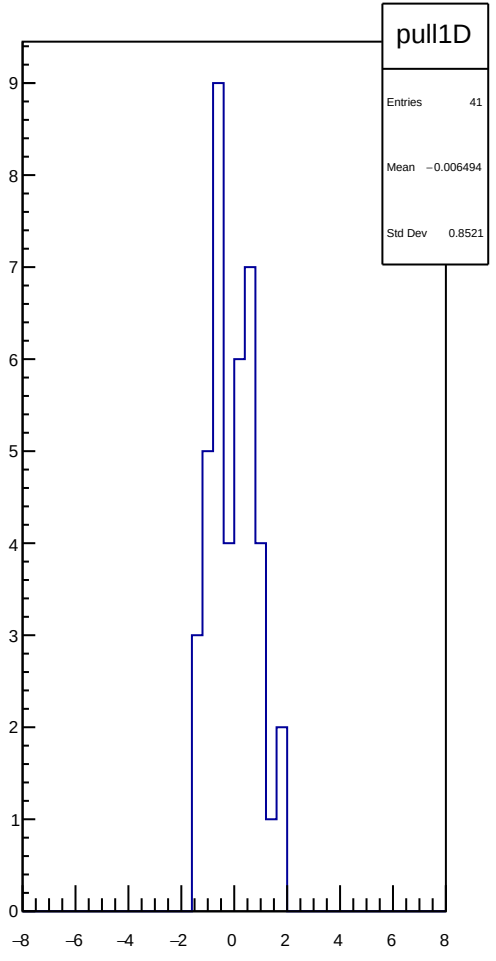

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 1663 / 40
p0 6374 ± 7.115
7200
7000
6800
6600
6400
6200
6000
5800
5600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

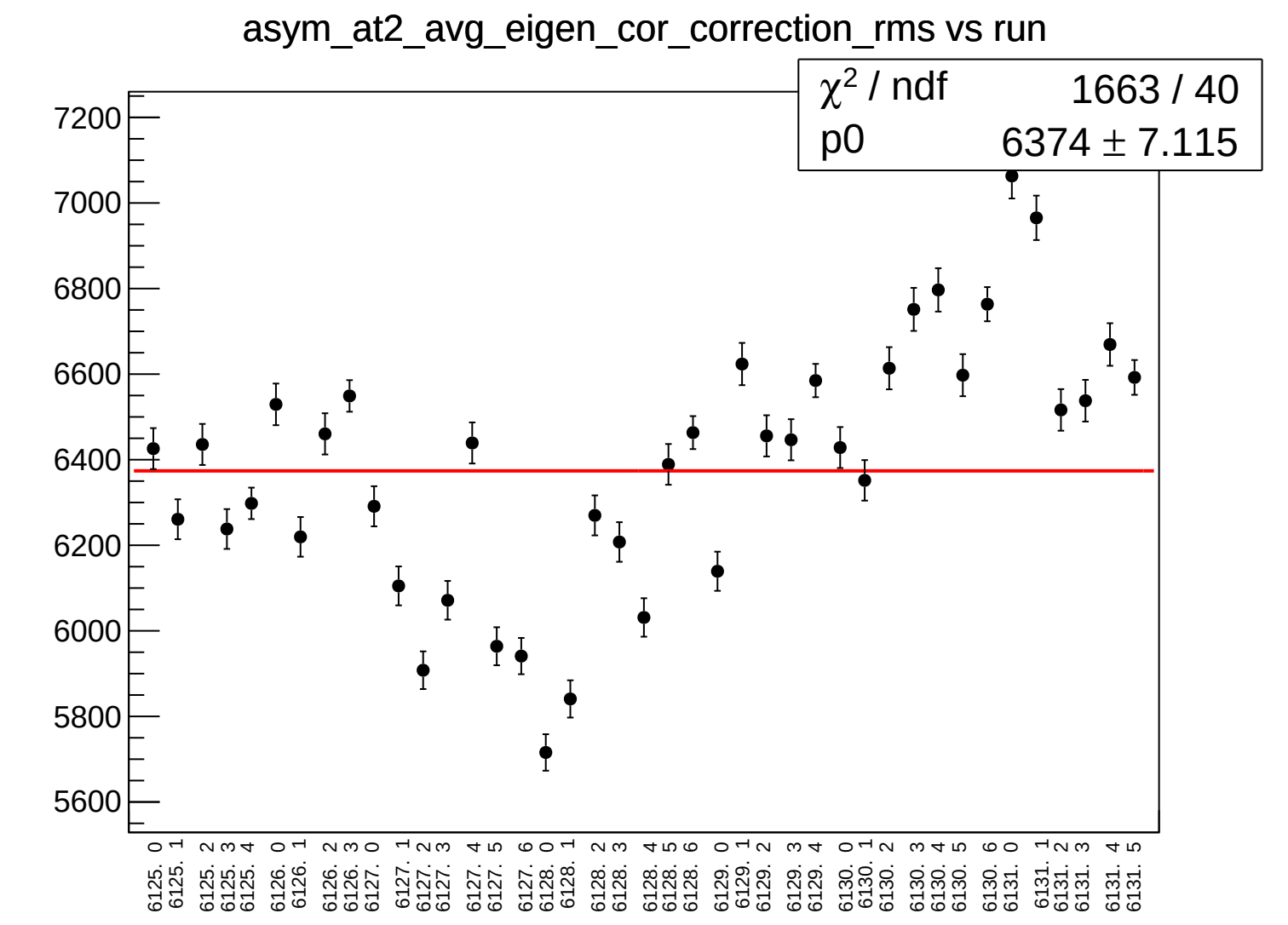

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 30.11 / 40
p0 3303 ± 2569
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 40.24
Std Dev 23.71
2
1.5
1
0.5
0
−0.5
−1
−1.5

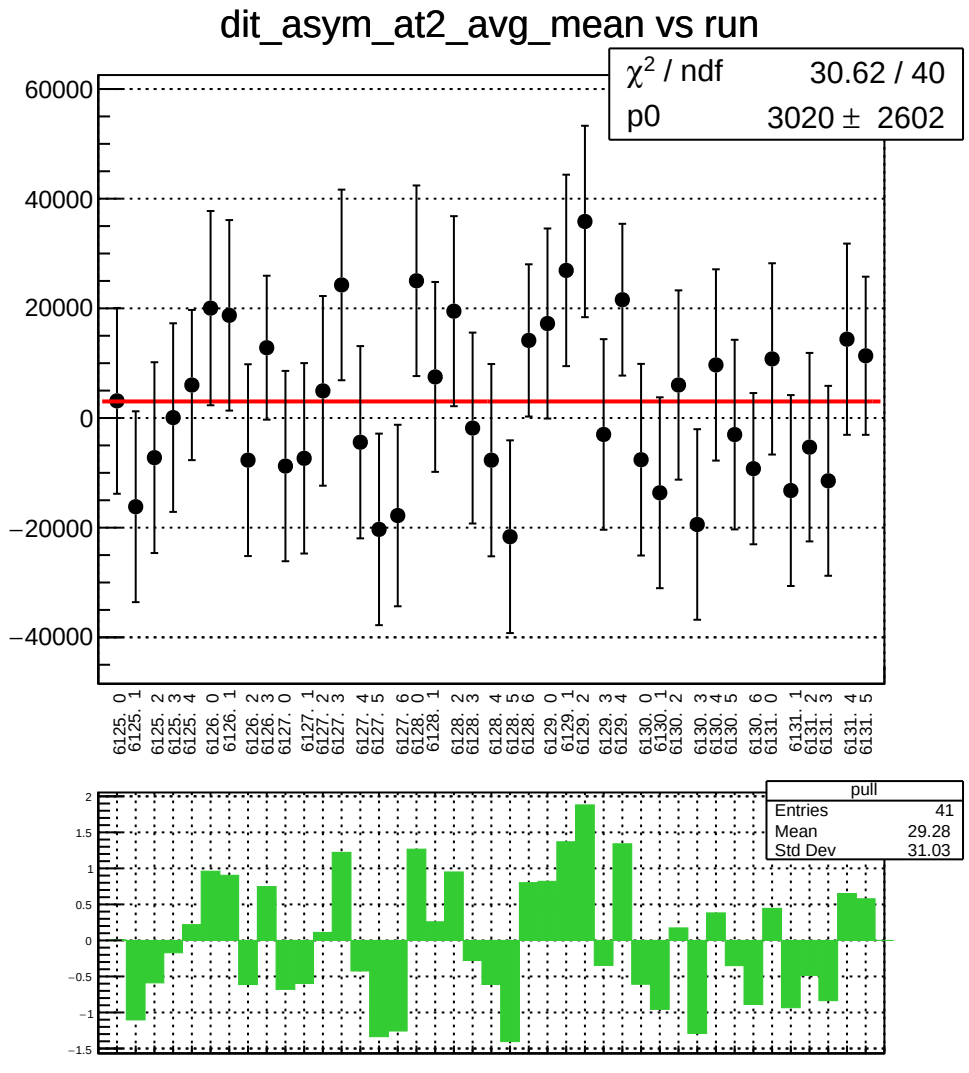

pull1D
Entries 41
Mean −0.01561
Std Dev 0.8568
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

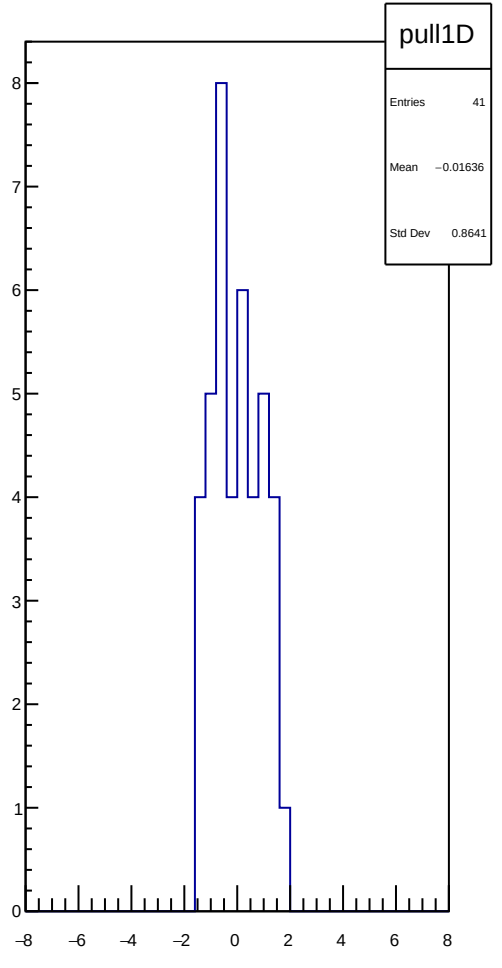

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 43.65 / 40
p0 1629 ± 1.817
1680
1660
1640
1620
1600
1580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

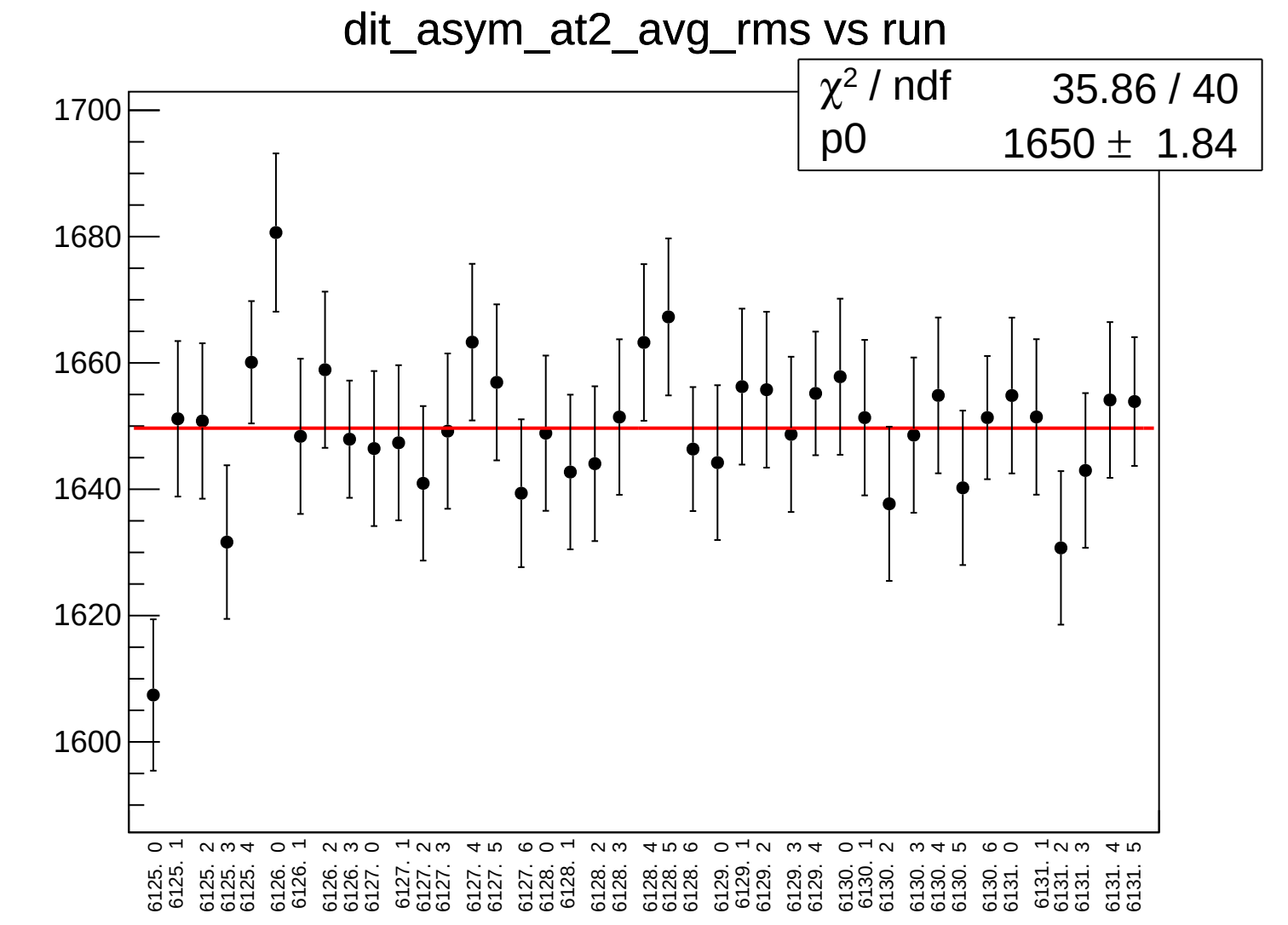

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 29.77 / 40
p0 3238 ± 1.006e+04
pull
Entries 41
Mean 131.7
Std Dev 0

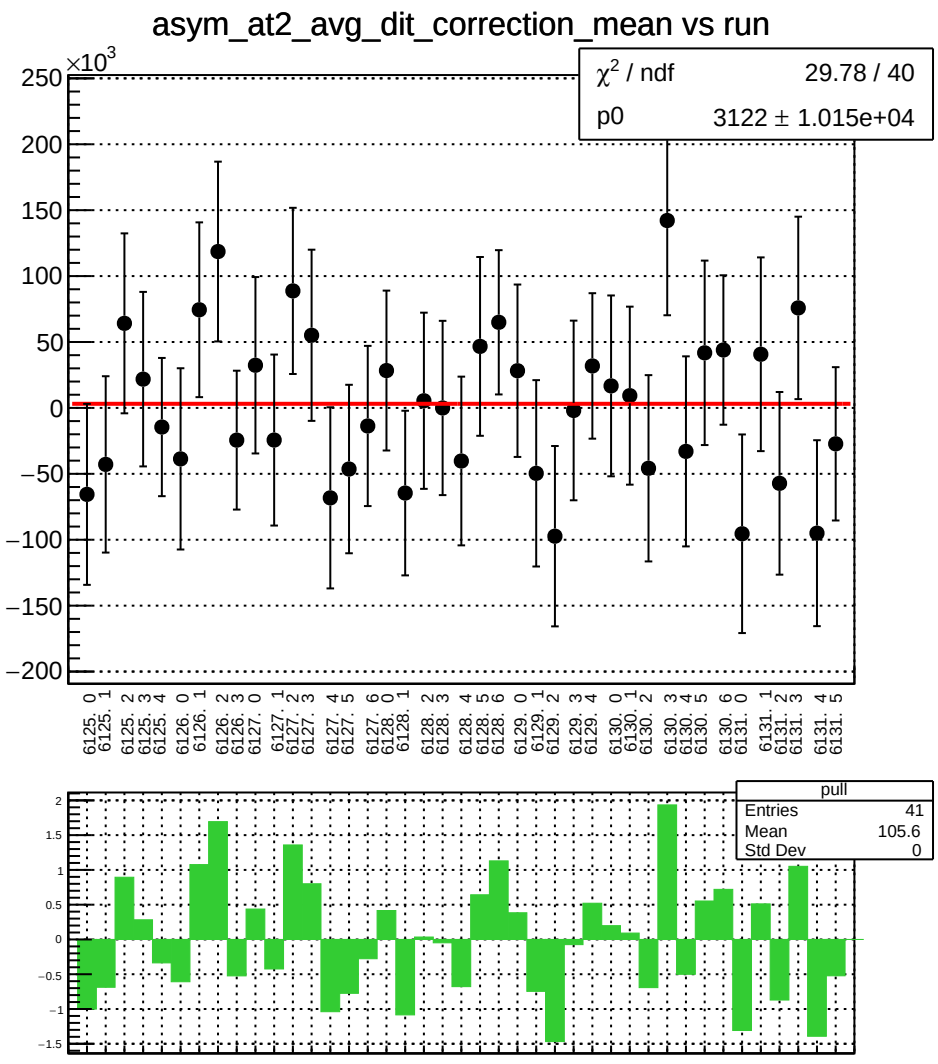

pull1D
Entries 41
Mean −0.006494
Std Dev 0.8521

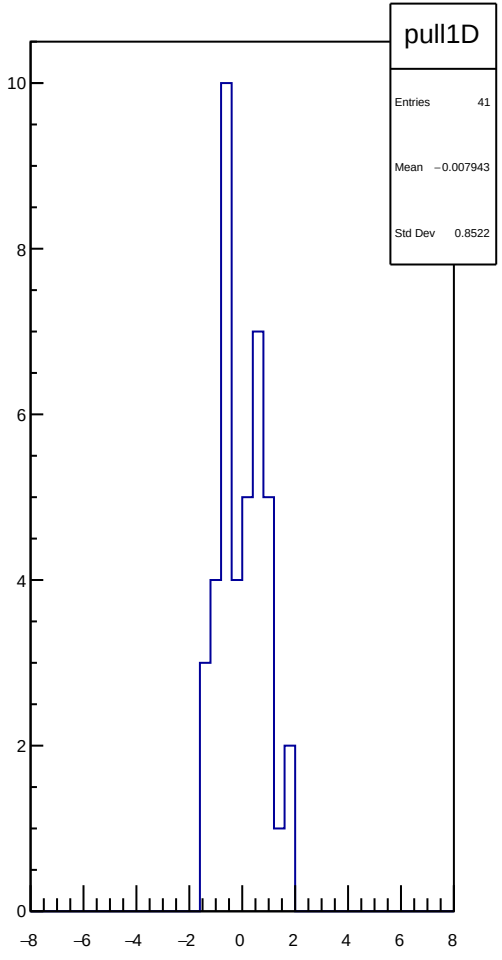

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1663 / 40
p0 6374 ± 7.115
7200
7000
6800
6600
6400
6200
6000
5800
5600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

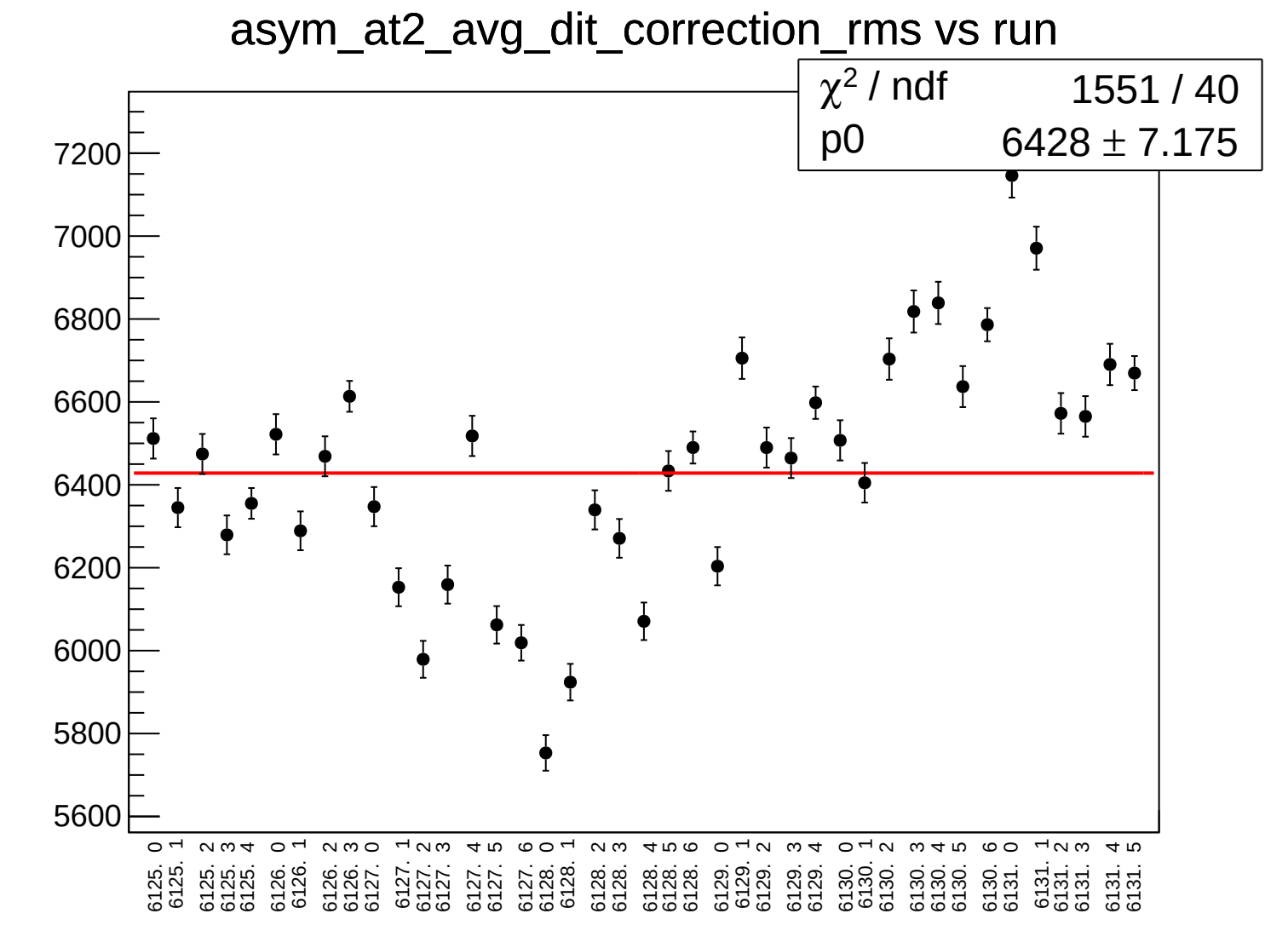

dit_asym_at2_avg_mean vs run
χ² / ndf 30.62 / 40
p0 3020 ± 2602
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 29.28
Std Dev 31.03
2
1.5
1
0.5
0
−0.5
−1
−1.5

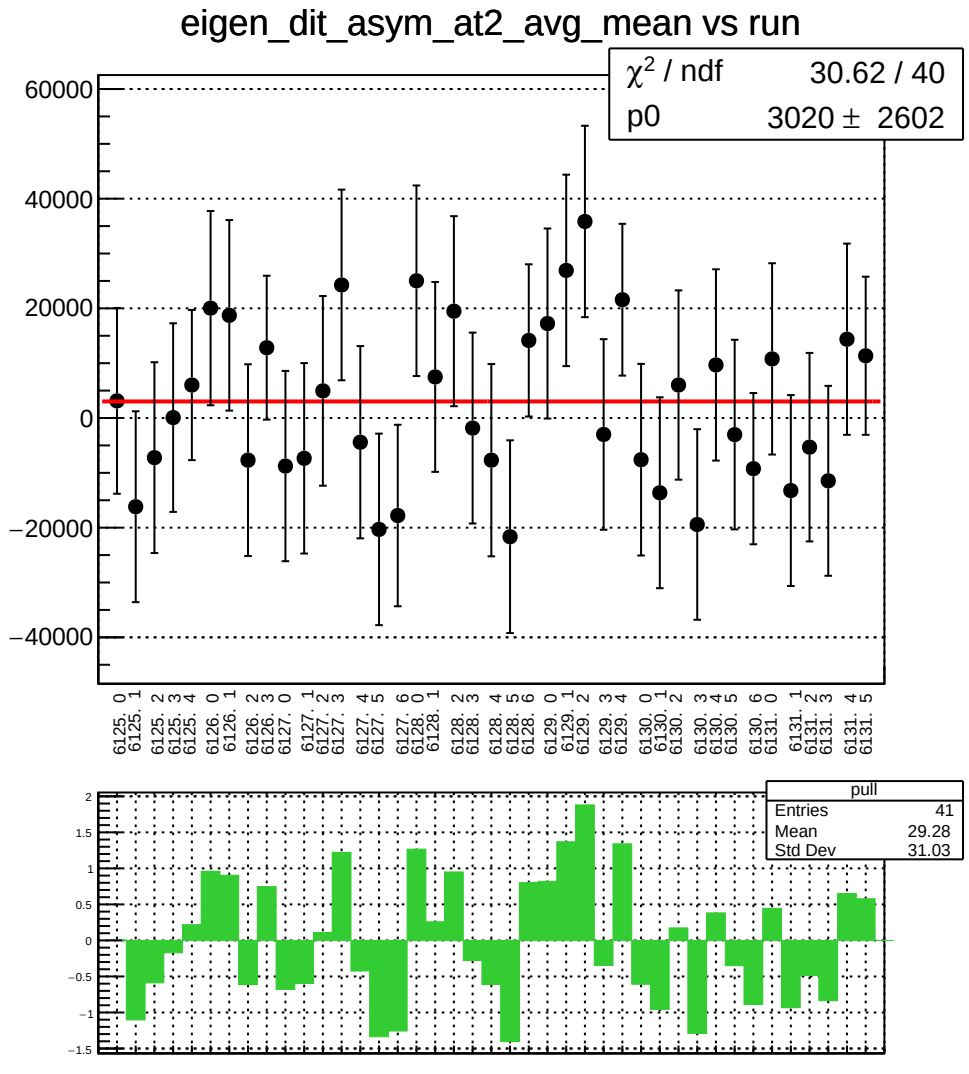

pull1D
Entries 41
Mean −0.01636
Std Dev 0.8641
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

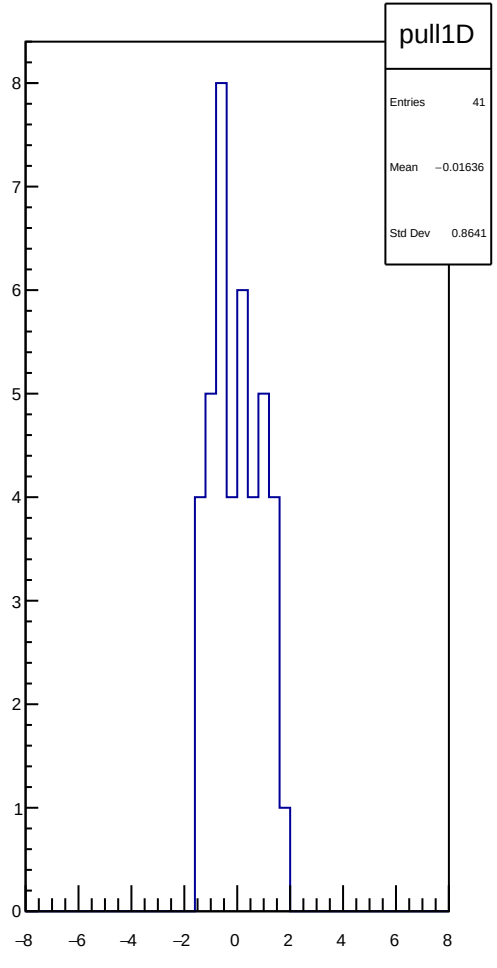

dit_asym_at2_avg_rms vs run
χ² / ndf 35.86 / 40
p0 1650 ± 1.84
1700
1680
1660
1640
1620
1600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

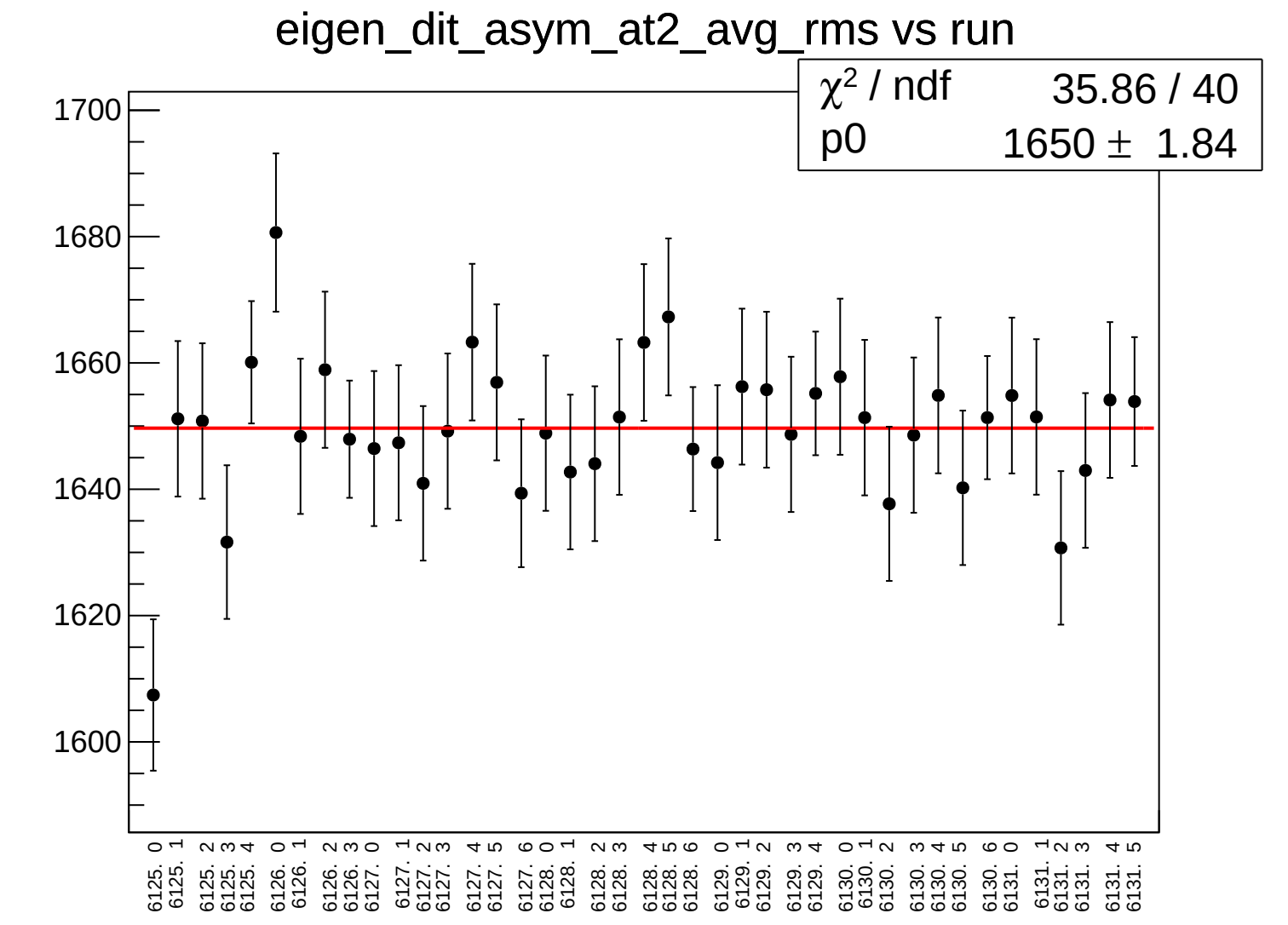

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 29.78 / 40
p0 3122 ± 1.015e+04
pull
Entries 41
Mean 105.6
Std Dev 0

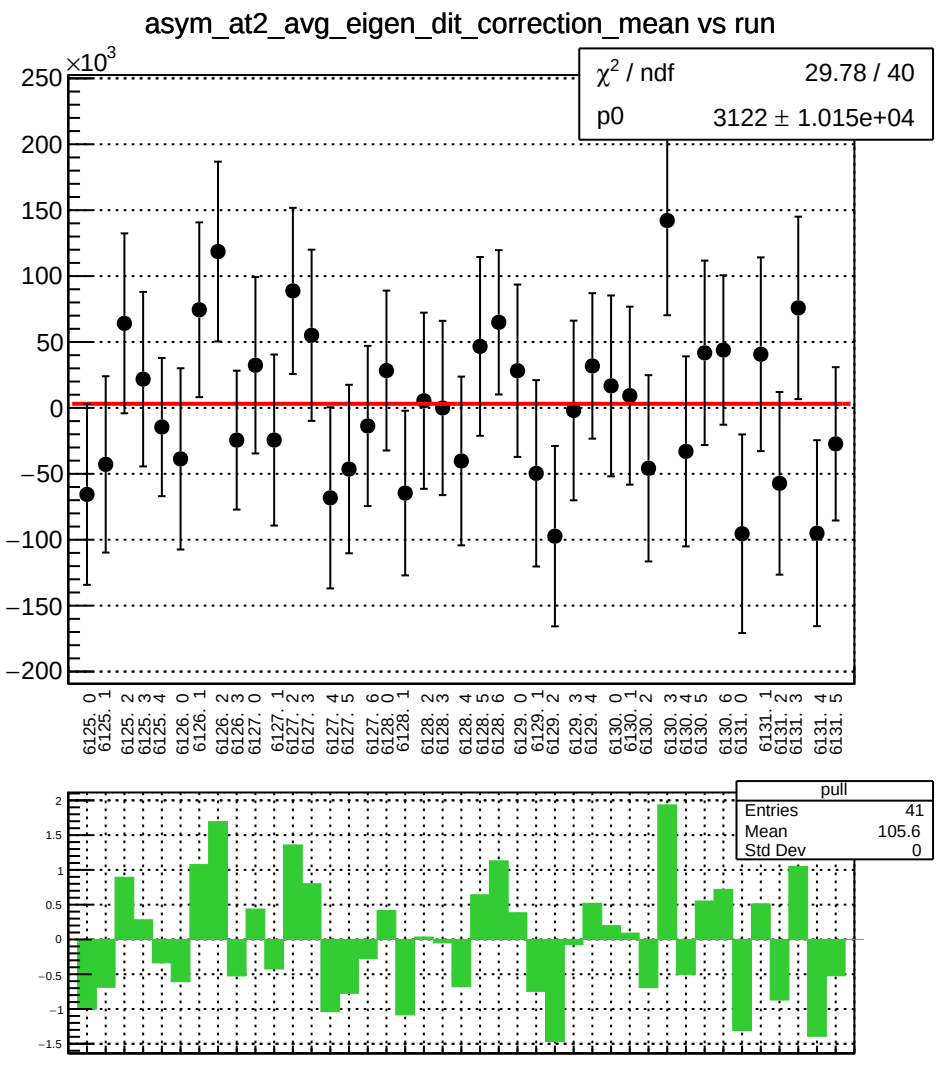

pull1D
Entries 41
Mean −0.007943
Std Dev 0.8522

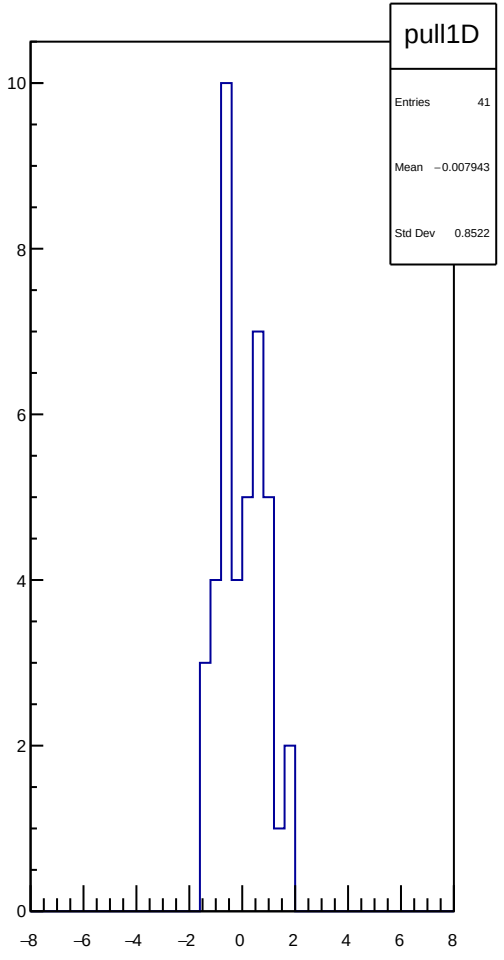

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 1551 / 40
p0 6428 ± 7.175
7200
7000
6800
6600
6400
6200
6000
5800
5600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

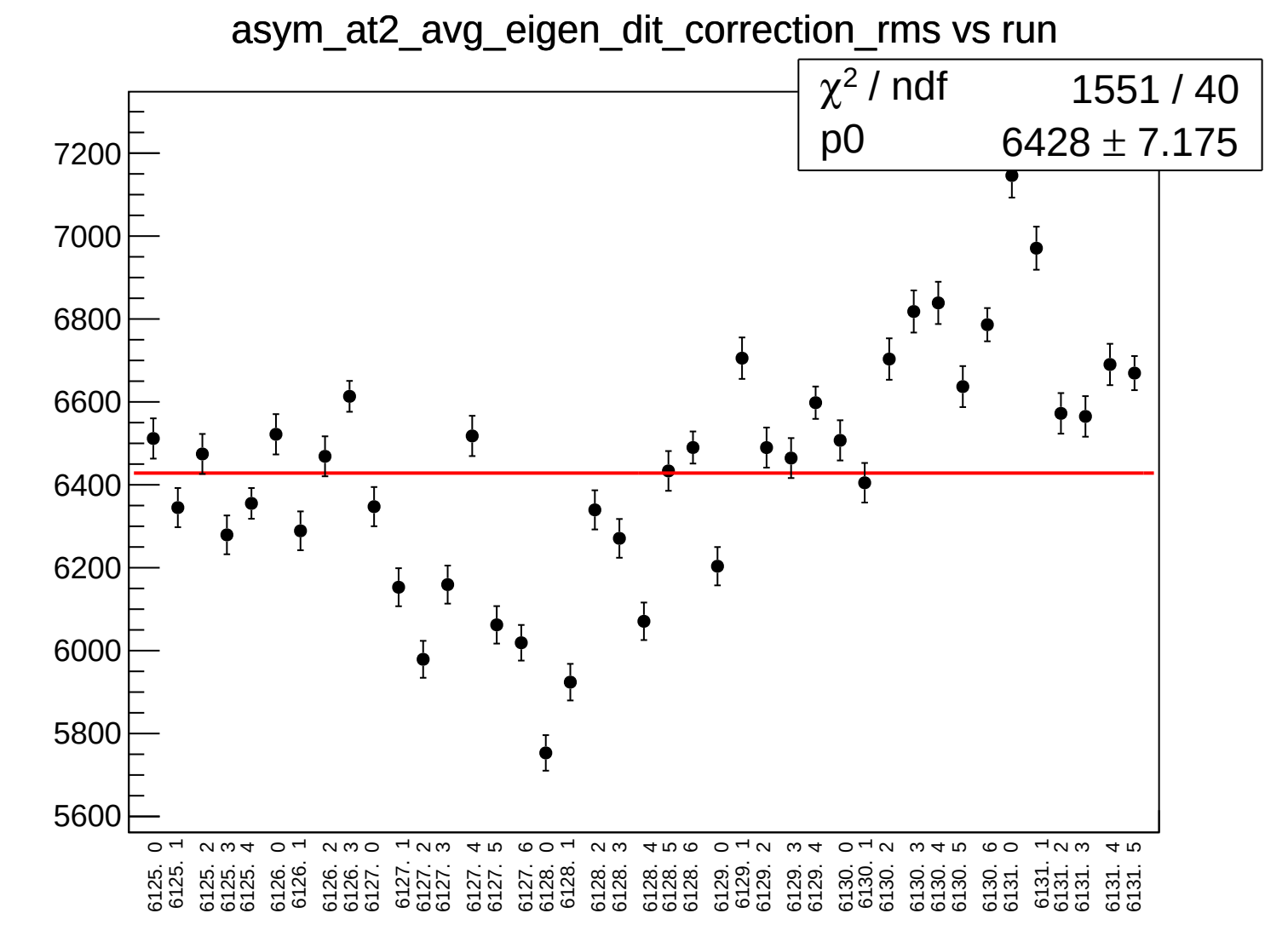

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 30.62 / 40
p0 3020 ± 2602
pull
Entries 41
Mean 29.28
Std Dev 31.03

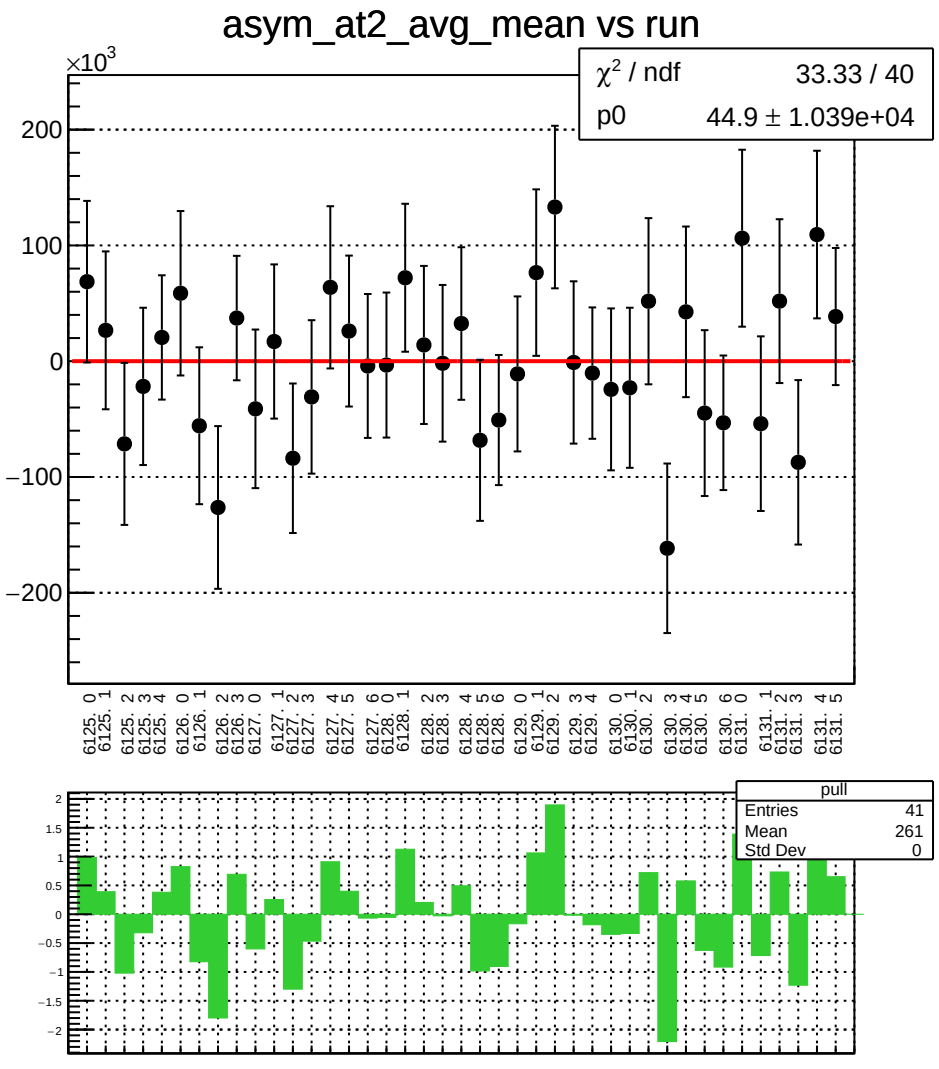

pull1D
Entries 41
Mean −0.01636
Std Dev 0.8641

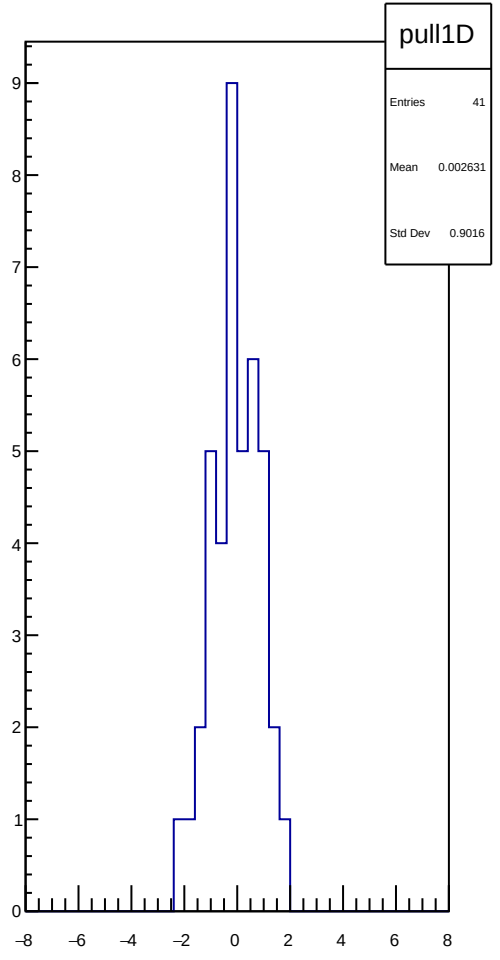

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 35.86 / 40
p0 1650 ± 1.84
1700
1680
1660
1640
1620
1600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

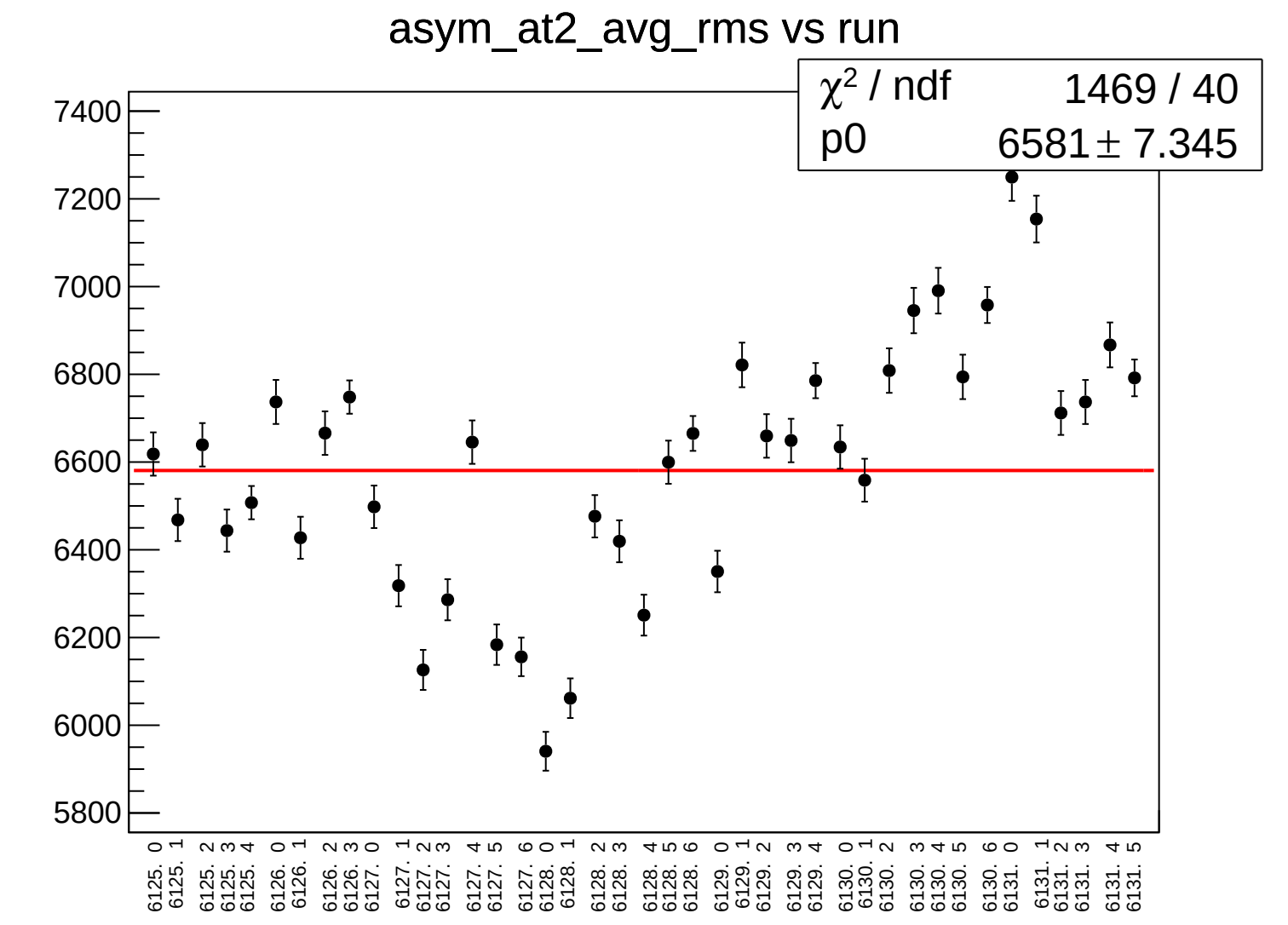

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 29.78 / 40
p0 3122 ± 1.015e+04
pull
Entries 41
Mean 105.6
Std Dev 0

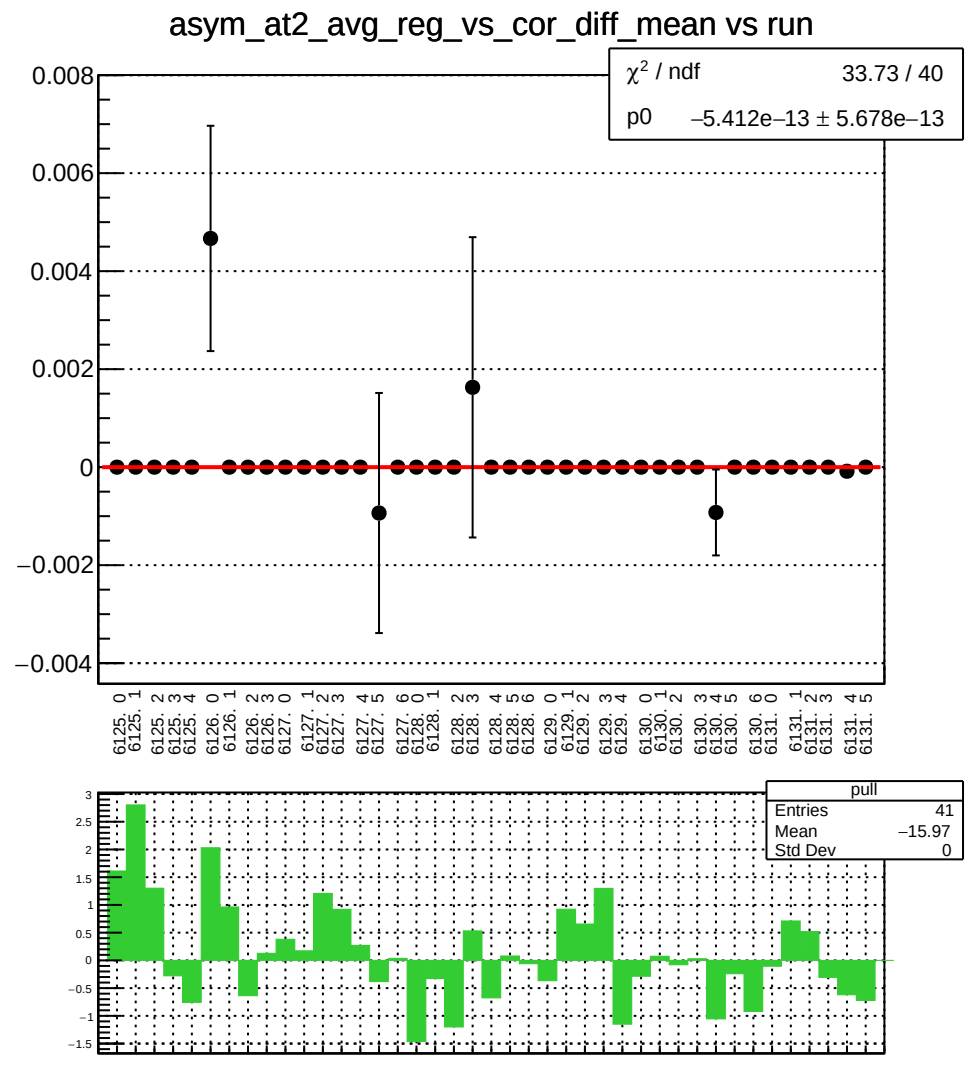

pull1D
Entries 41
Mean −0.007943
Std Dev 0.8522

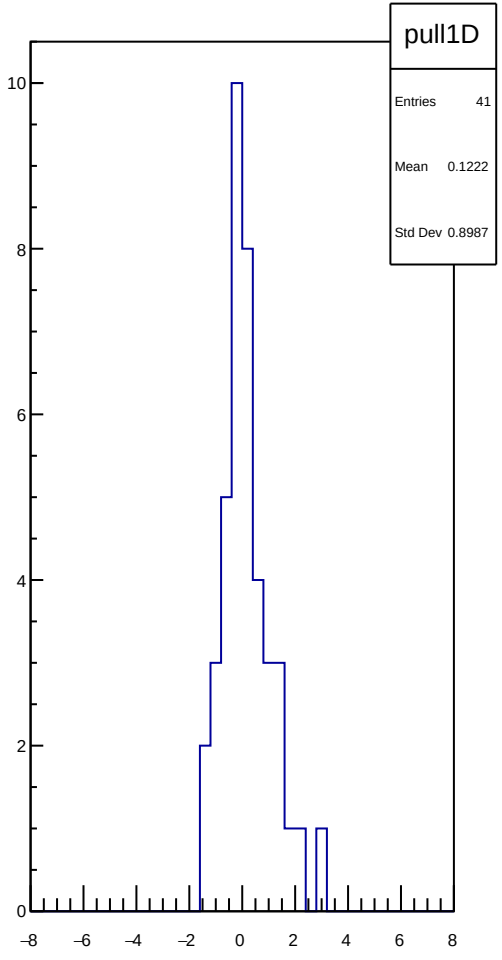

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1551 / 40
p0 6428 ± 7.175
7200
7000
6800
6600
6400
6200
6000
5800
5600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

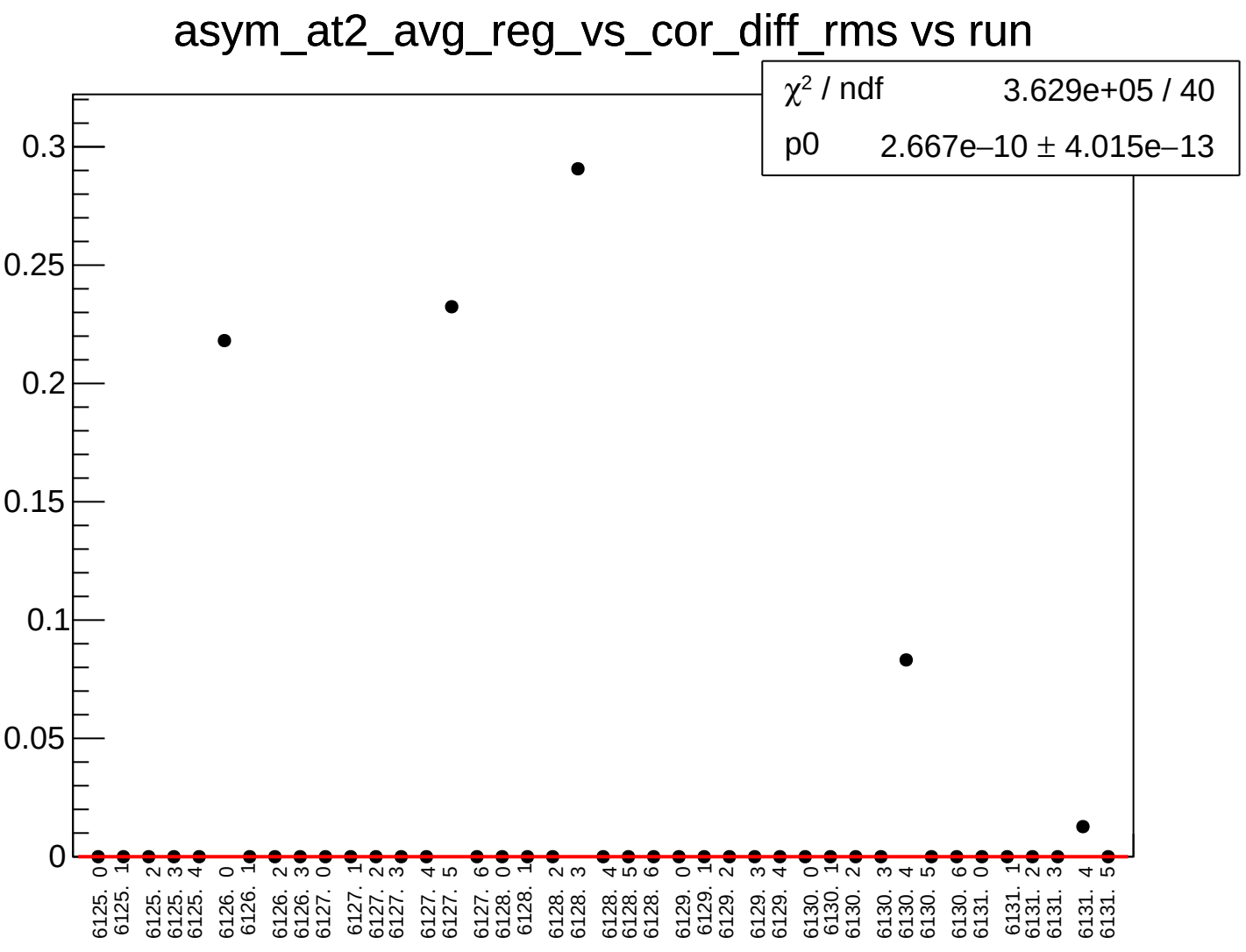

asym_at2_avg_mean vs run
×10^3
χ² / ndf 33.33 / 40
p0 44.9 ± 1.039e+04
200
100
0
−100
−200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 261
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

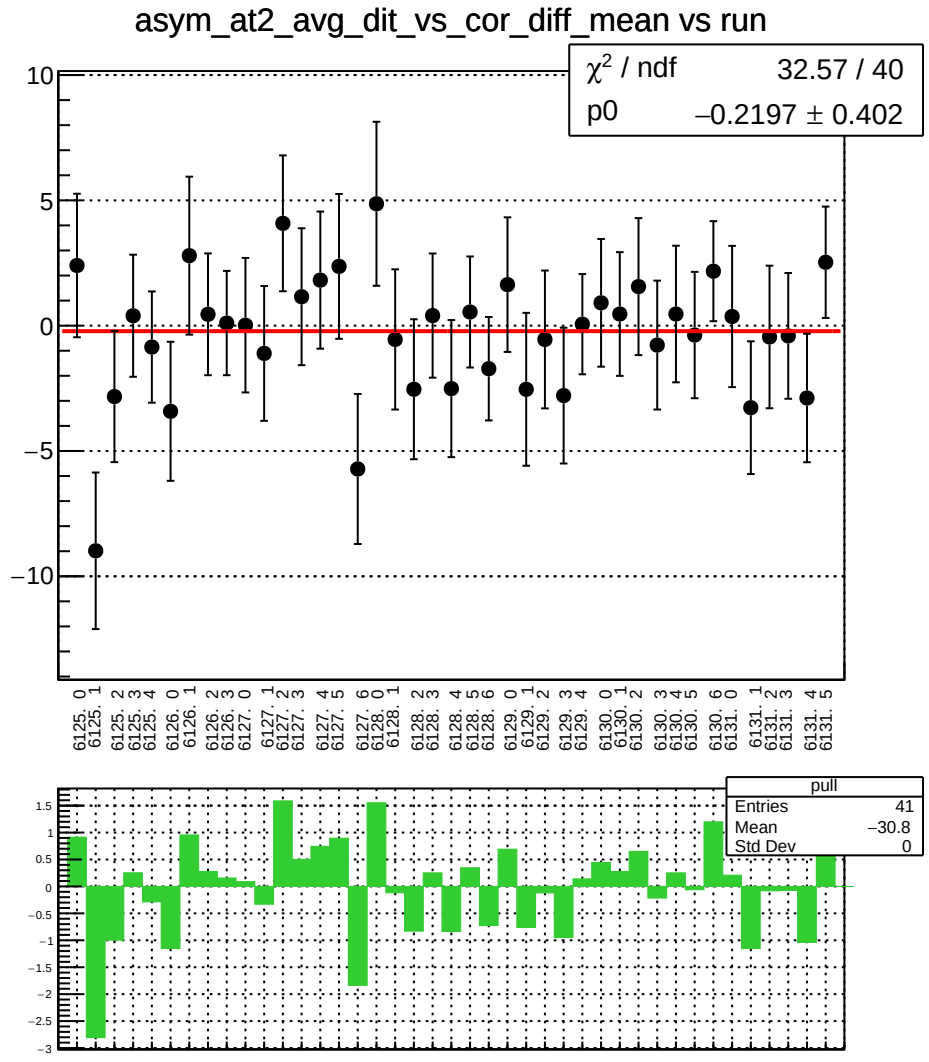

pull1D
Entries 41
Mean 0.002631
Std Dev 0.9016
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

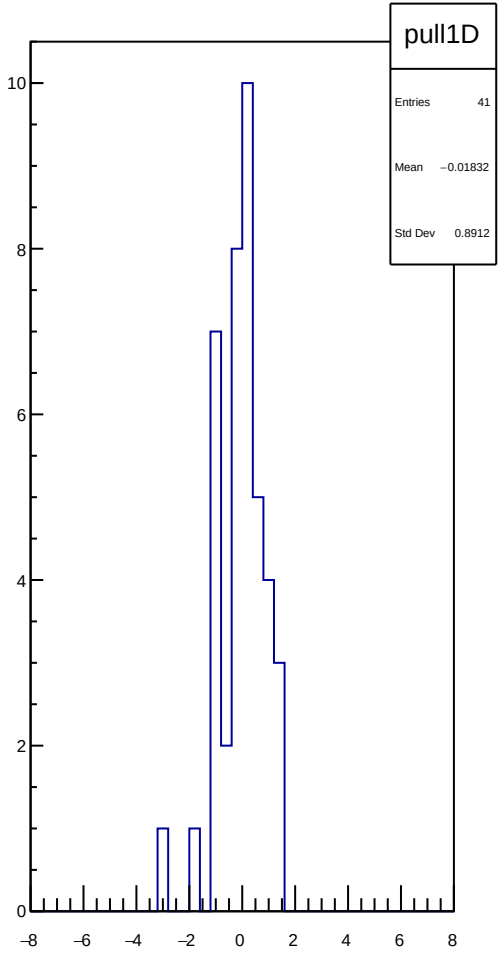

asym_at2_avg_rms vs run
χ² / ndf 1469 / 40
p0 6581 ± 7.345
7400
7200
7000
6800
6600
6400
6200
6000
5800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

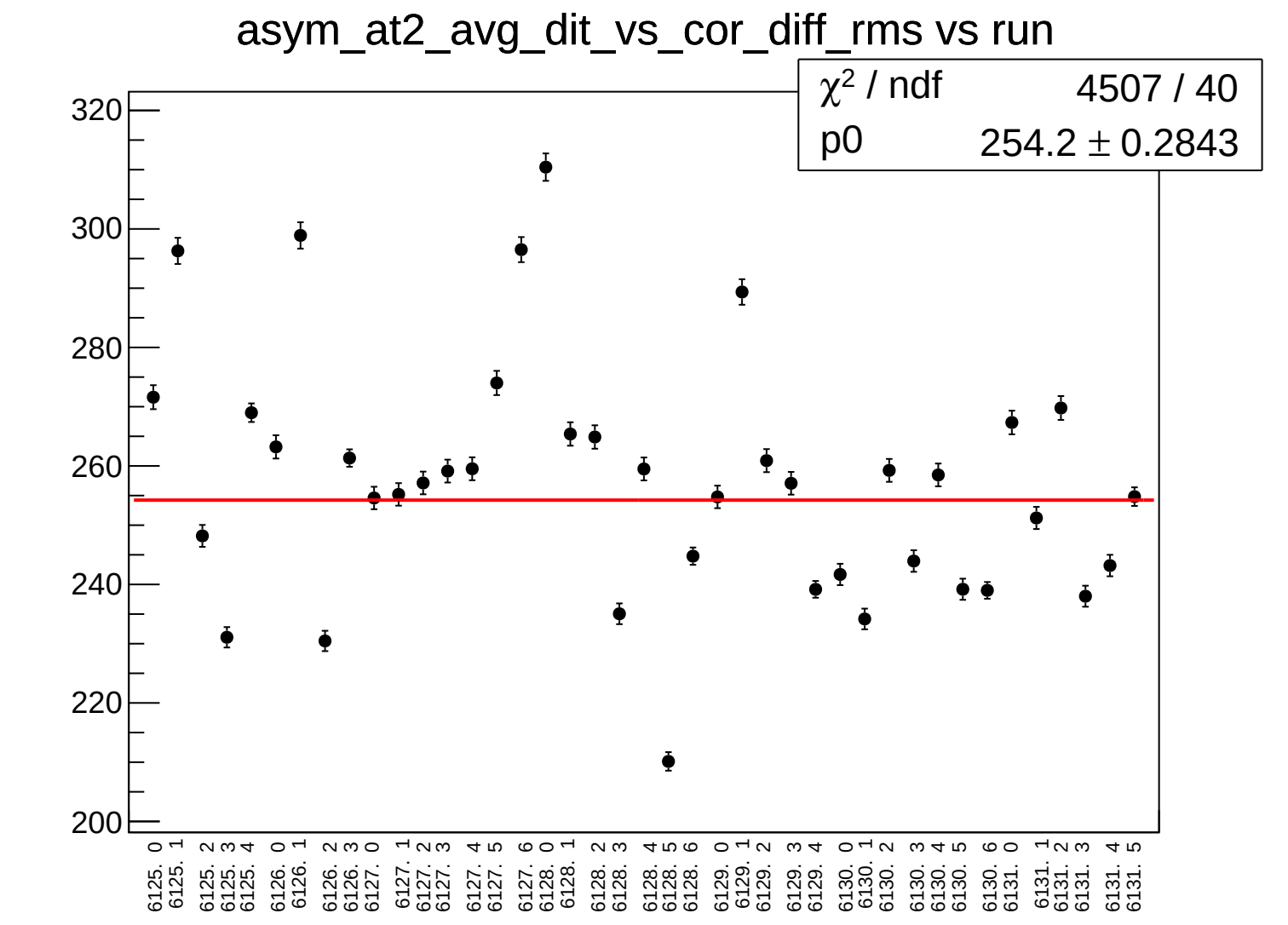

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 33.73 / 40
p0 −5.412e−13 ± 5.678e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −15.97
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

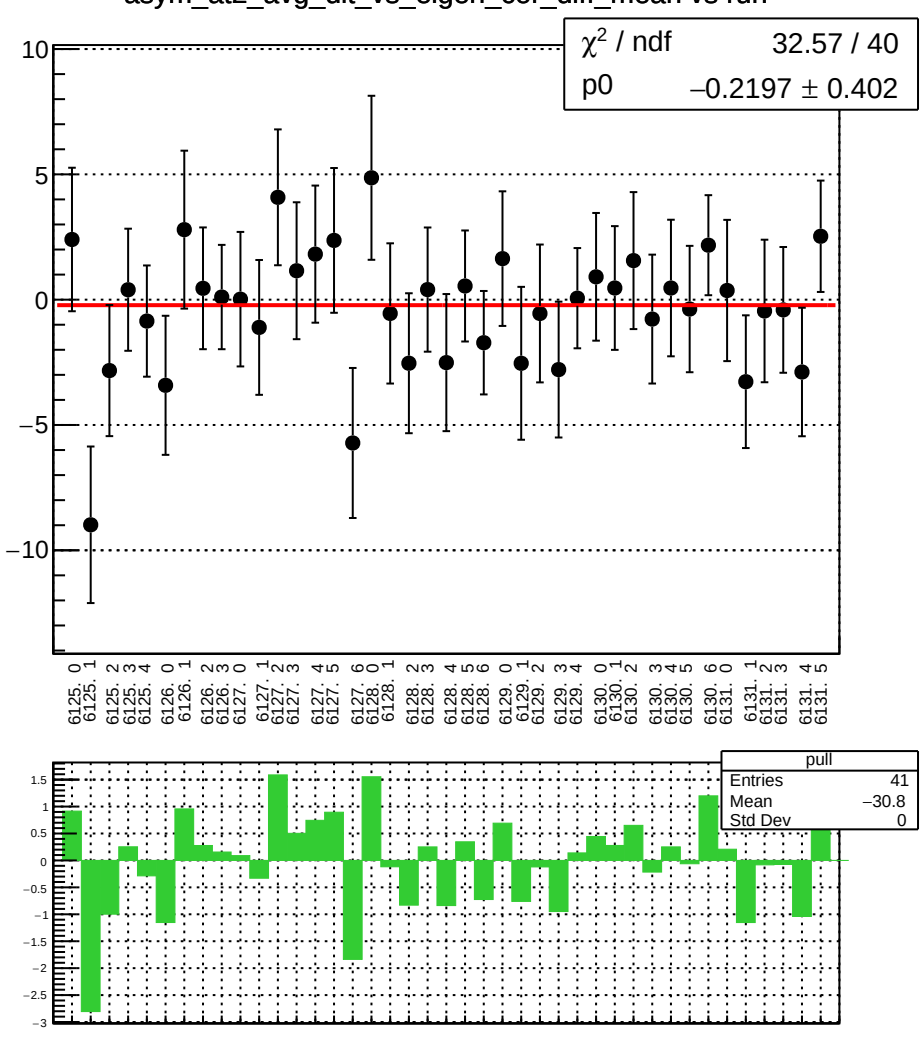

pull1D
Entries 41
Mean 0.1222
Std Dev 0.8987
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

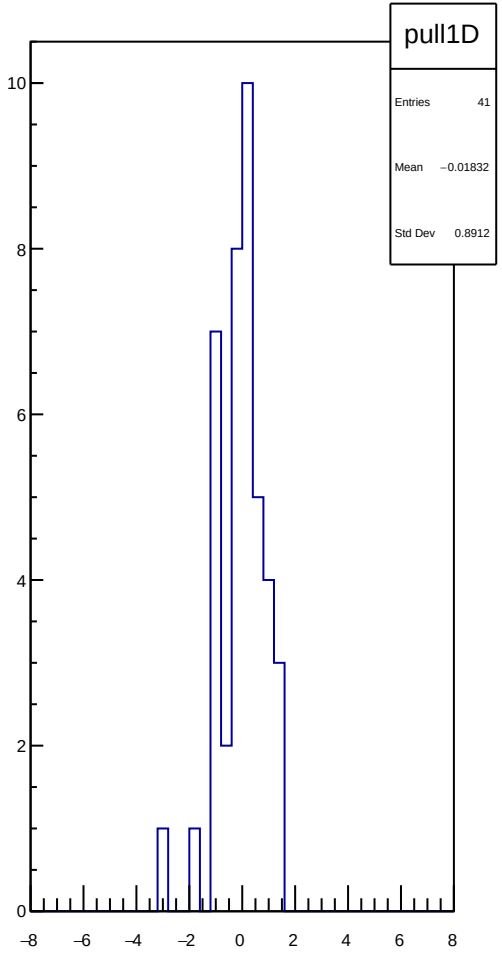

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.629e+05 / 40
p0 2.667e−10 ± 4.015e−13
0.3
0.25
0.2
0.15
0.1
0.05
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

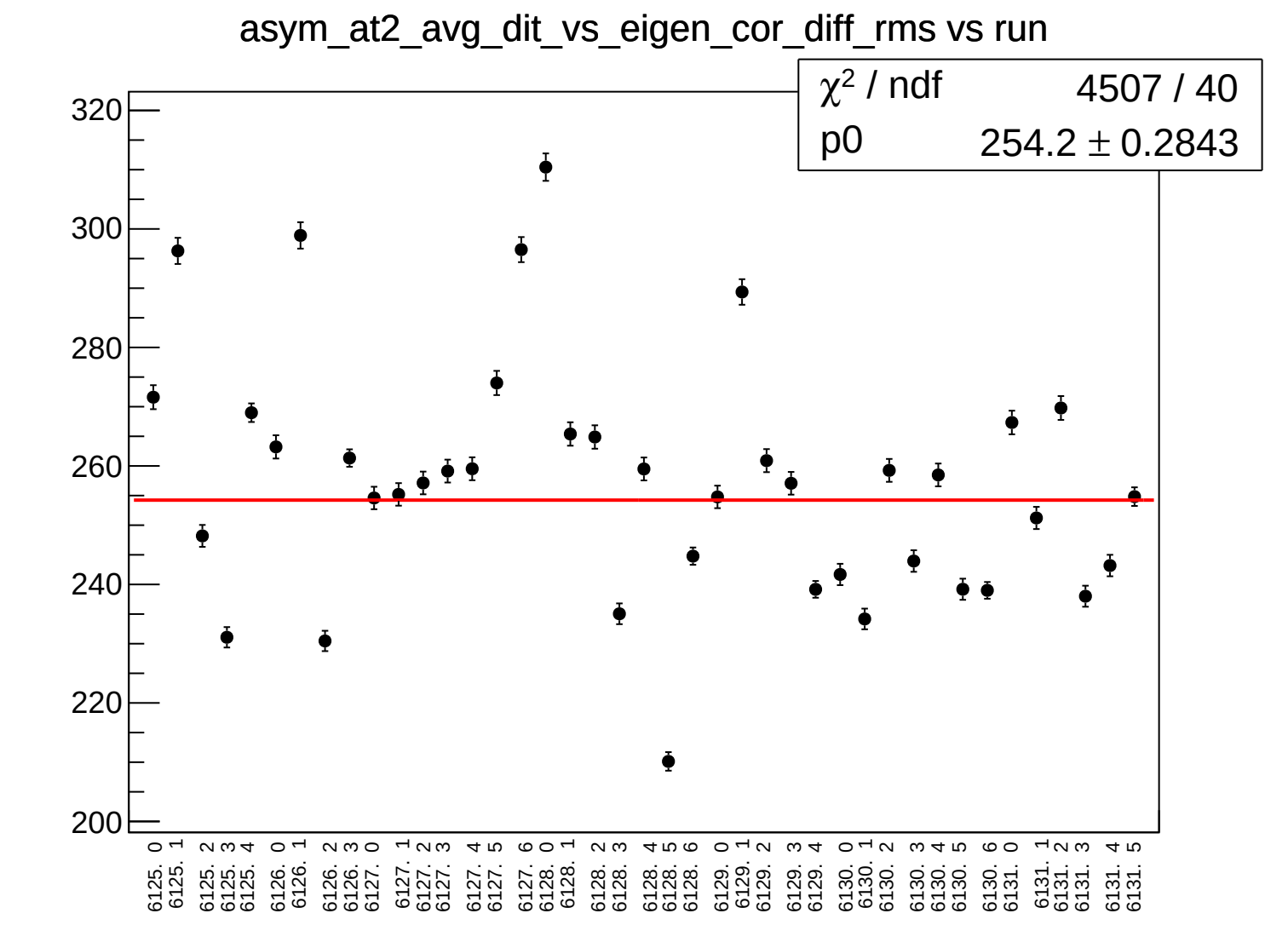

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 32.57 / 40
p0 −0.2197 ± 0.402
pull
Entries 41
Mean −30.8
Std Dev 0

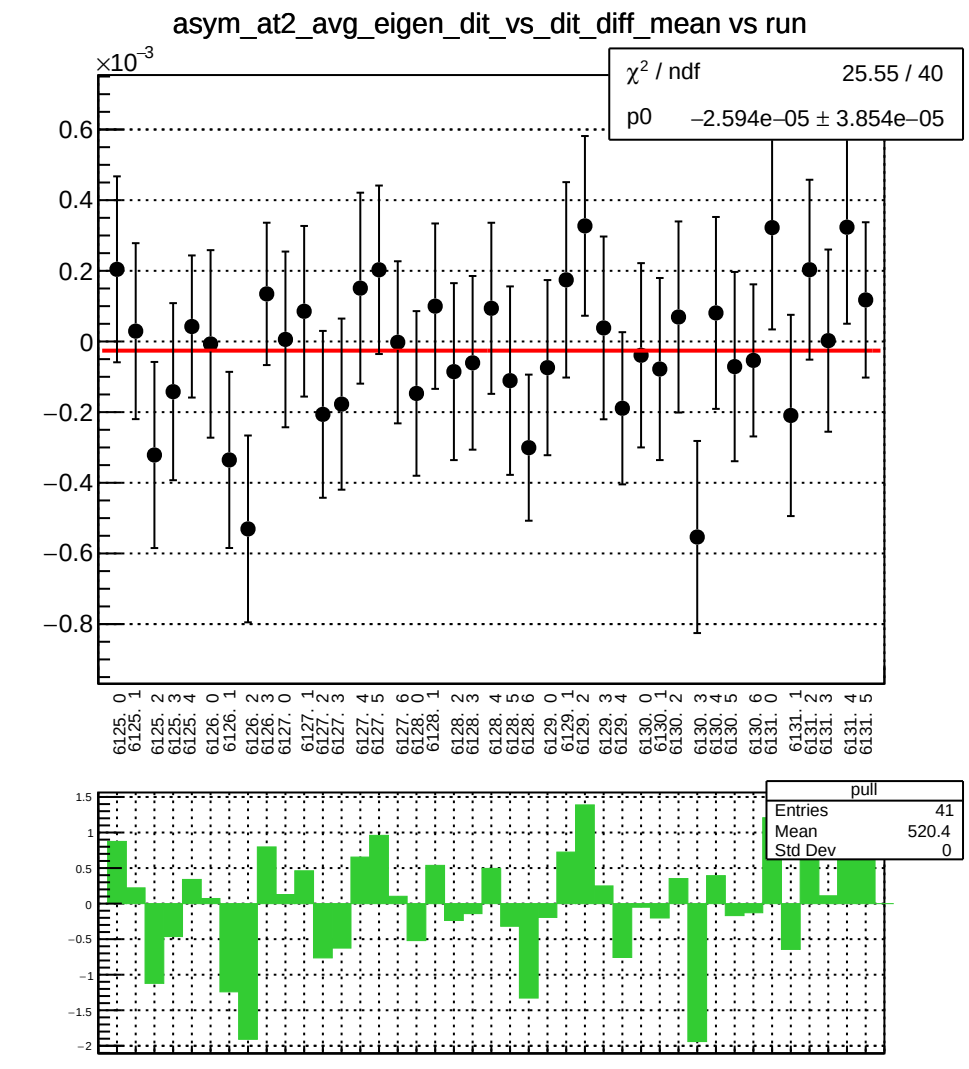

pull1D
Entries 41
Mean −0.01832
Std Dev 0.8912

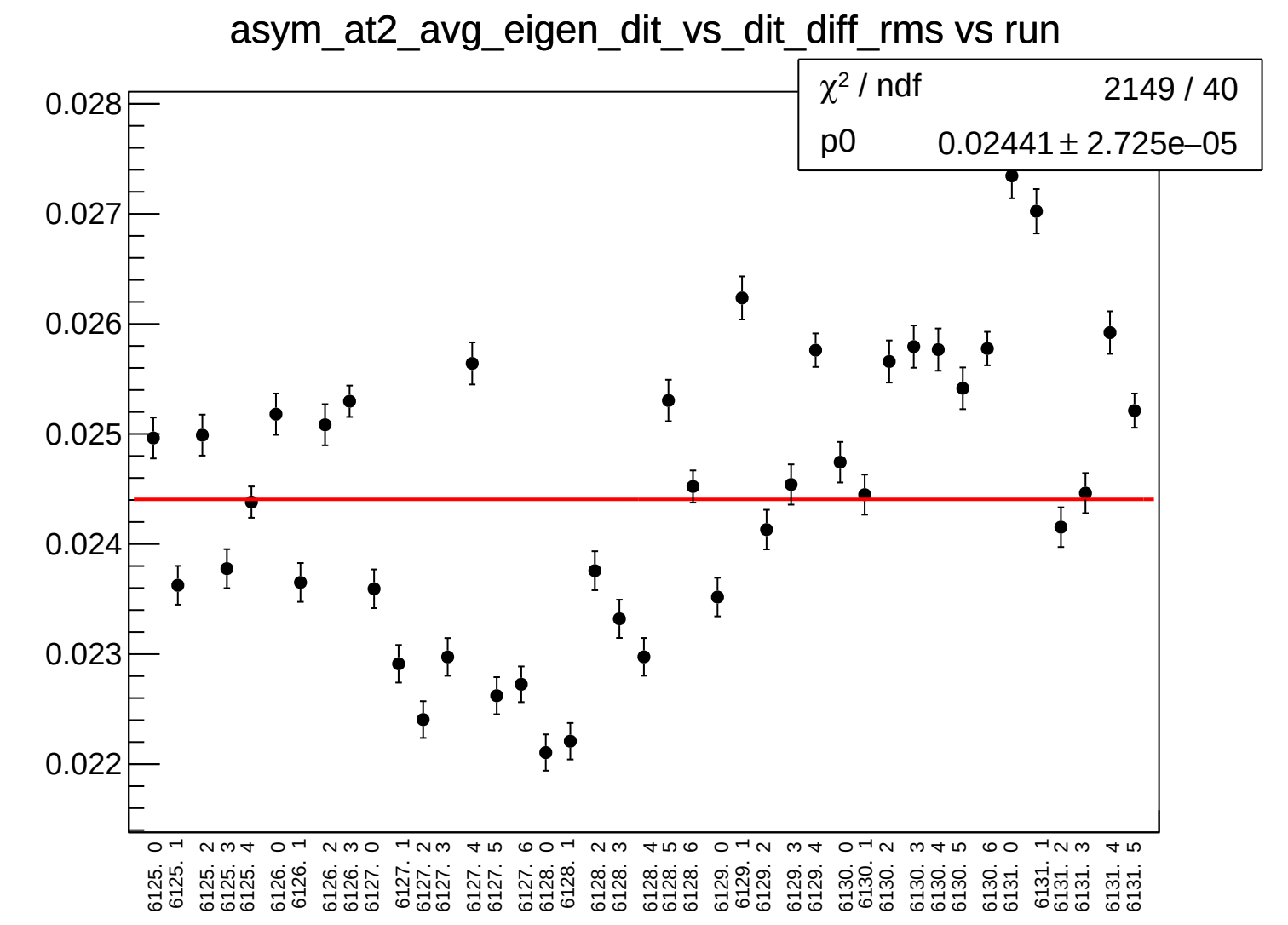

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4507 / 40
p0 254.2 ± 0.2843
320
300
280
260
240
220
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

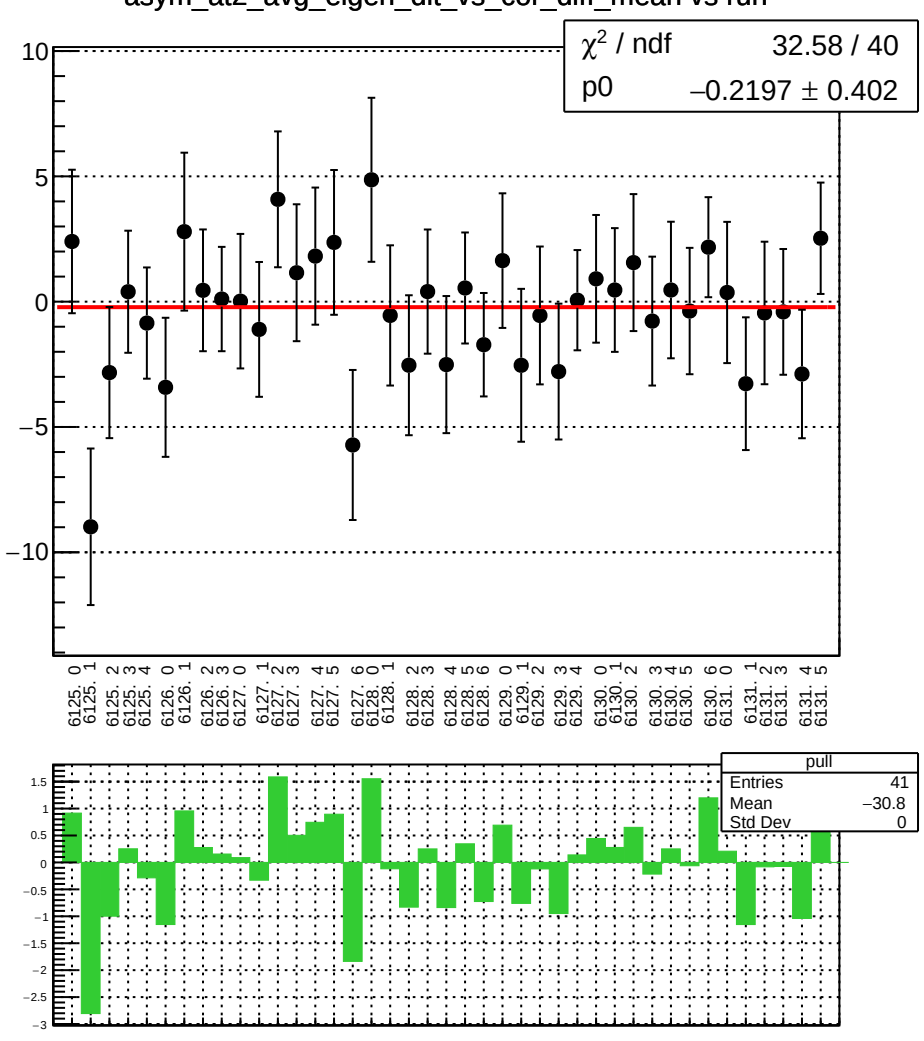

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.57 / 40
p0 −0.2197 ± 0.402
pull
Entries 41
Mean −30.8
Std Dev 0

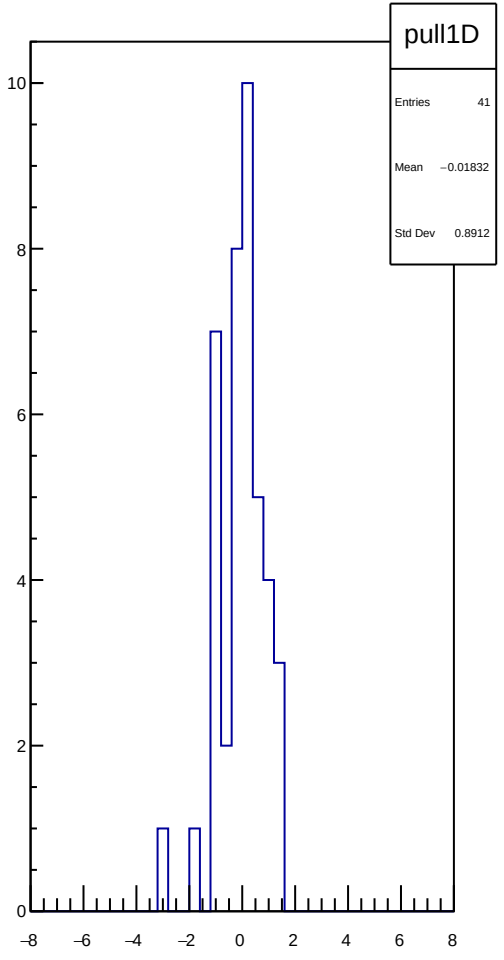

pull1D
Entries 41
Mean −0.01832
Std Dev 0.8912

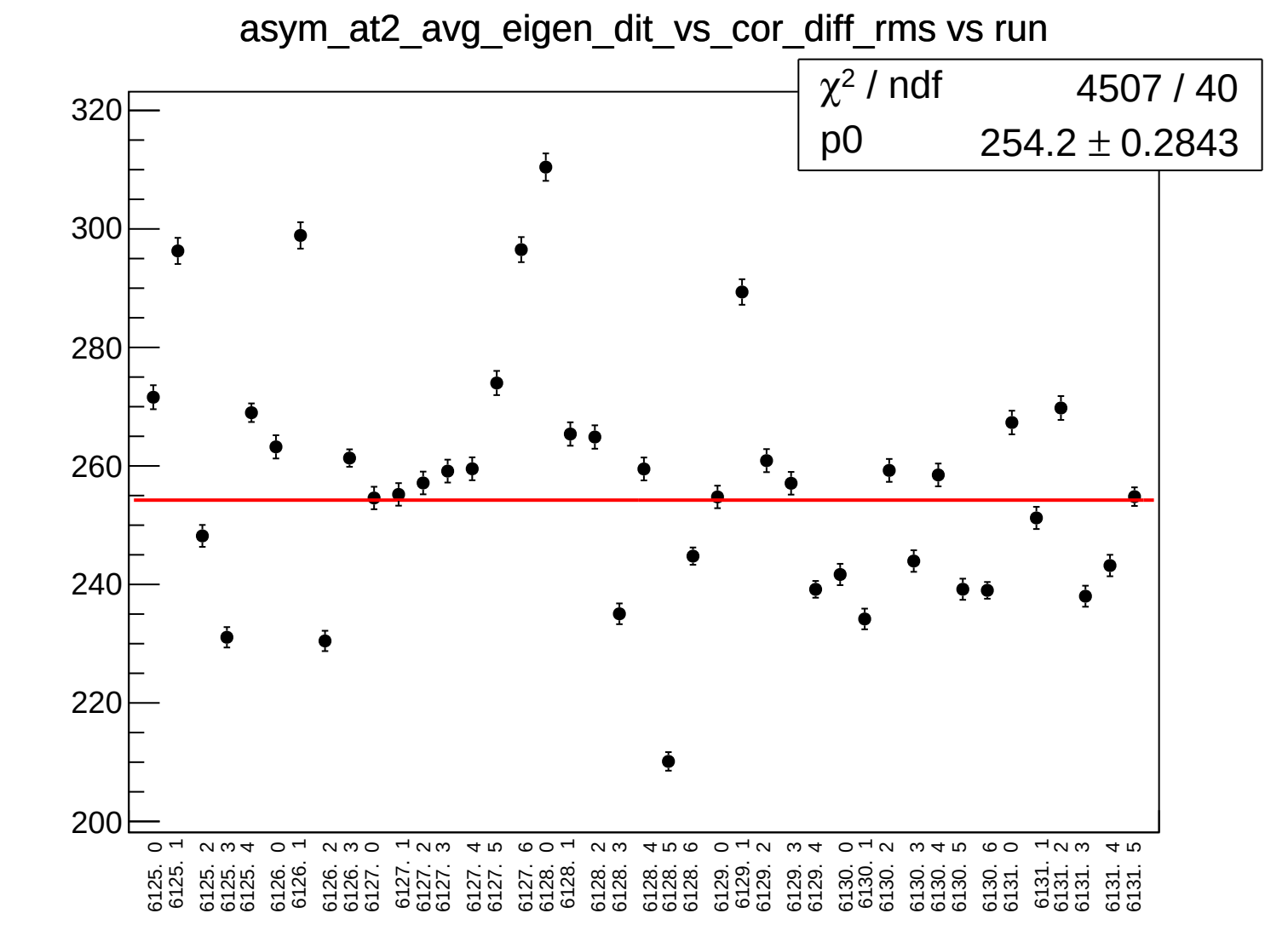

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4507 / 40
p0 254.2 ± 0.2843
320
300
280
260
240
220
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

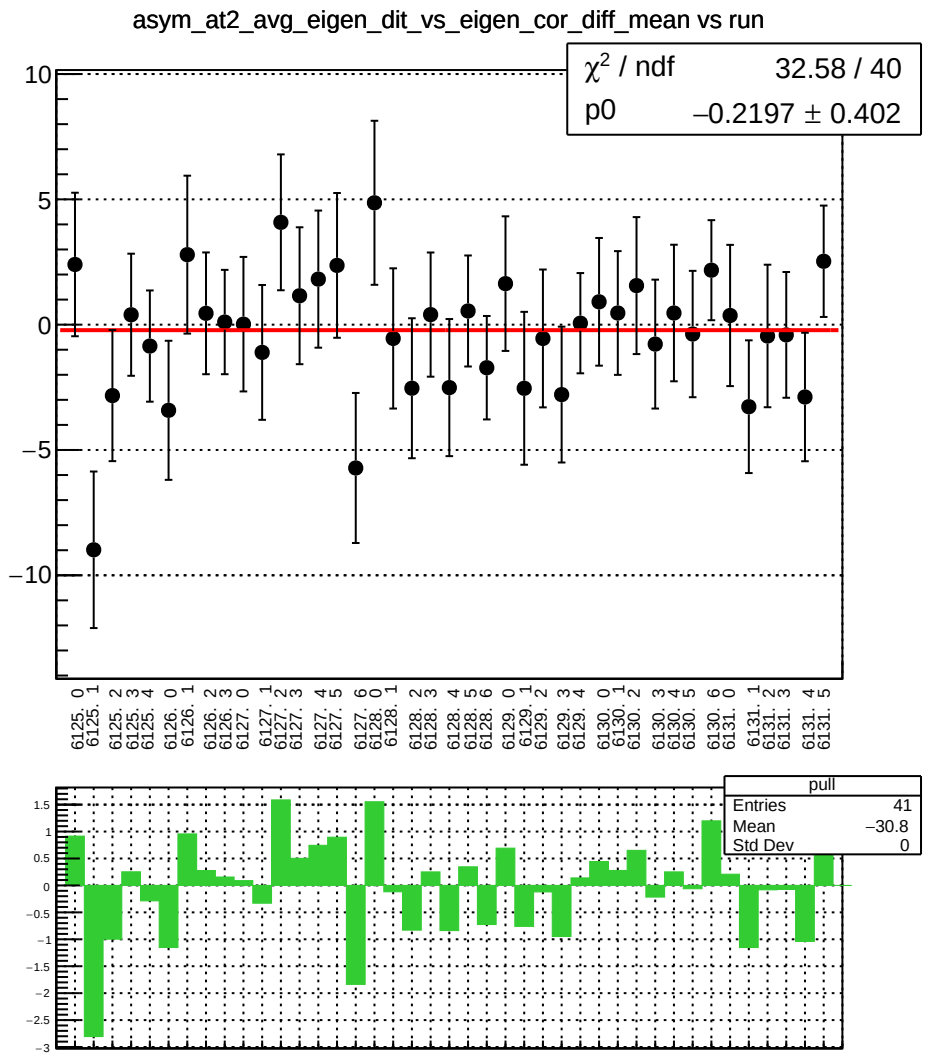

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 25.55 / 40
p0 −2.594e−05 ± 3.854e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 520.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.003619
Std Dev 0.7894
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

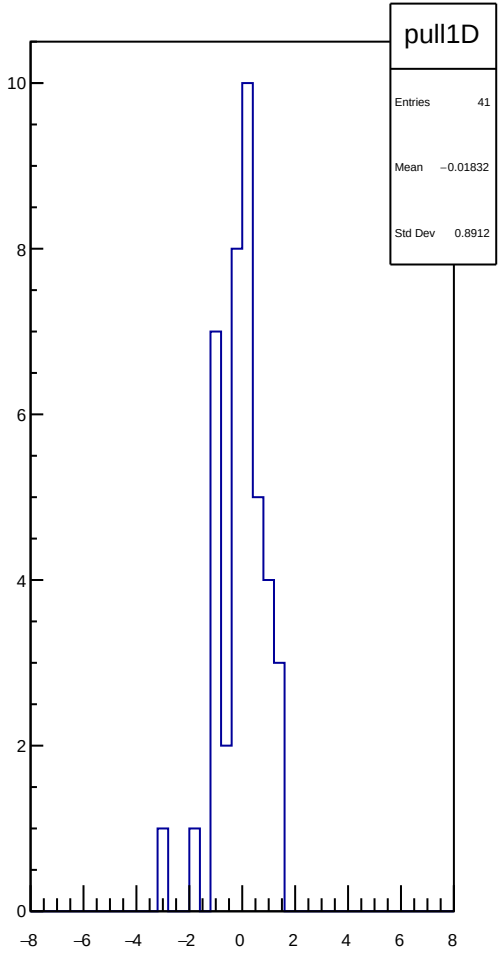

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2149 / 40
p0 0.02441 ± 2.725e−05
0.028
0.027
0.026
0.025
0.024
0.023
0.022
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

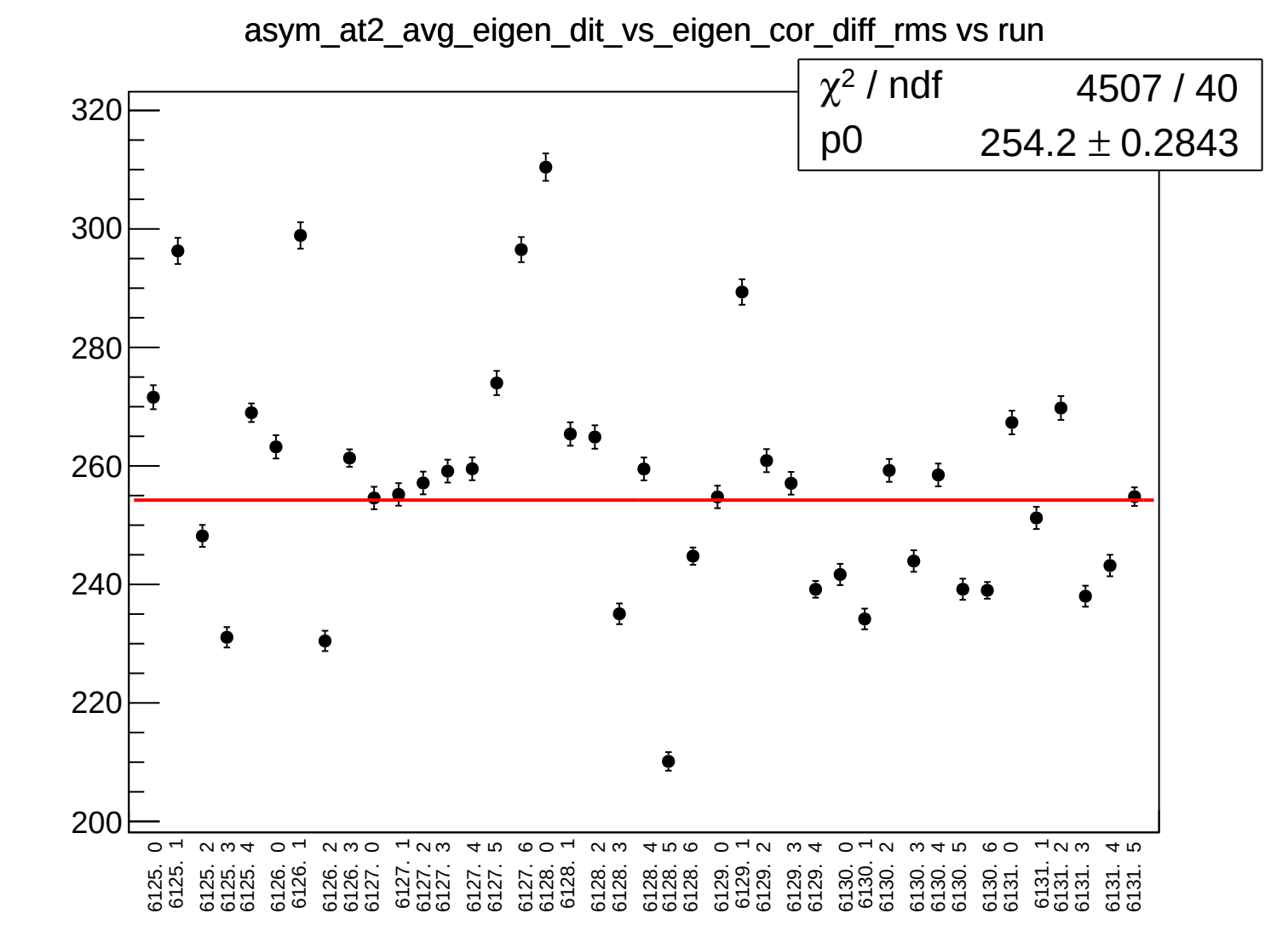

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 32.58 / 40
p0 −0.2197 ± 0.402
pull
Entries 41
Mean −30.8
Std Dev 0

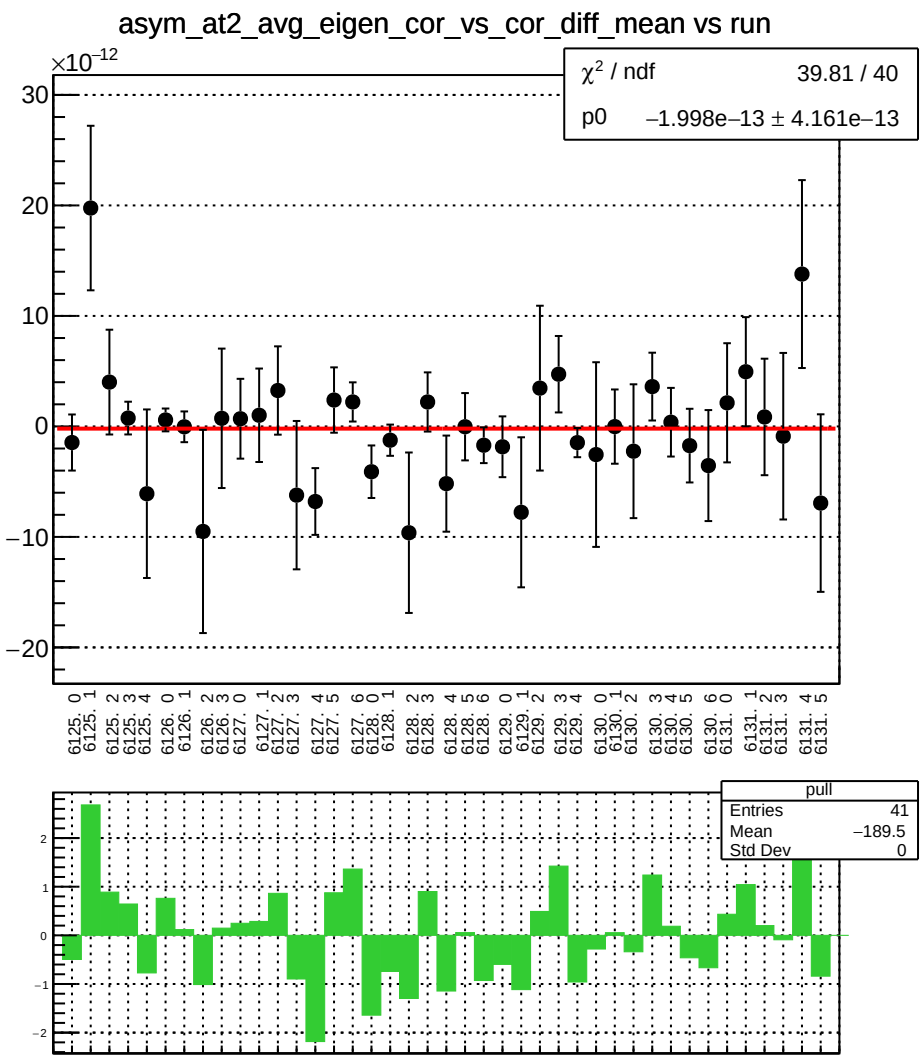

pull1D
Entries 41
Mean −0.01832
Std Dev 0.8912

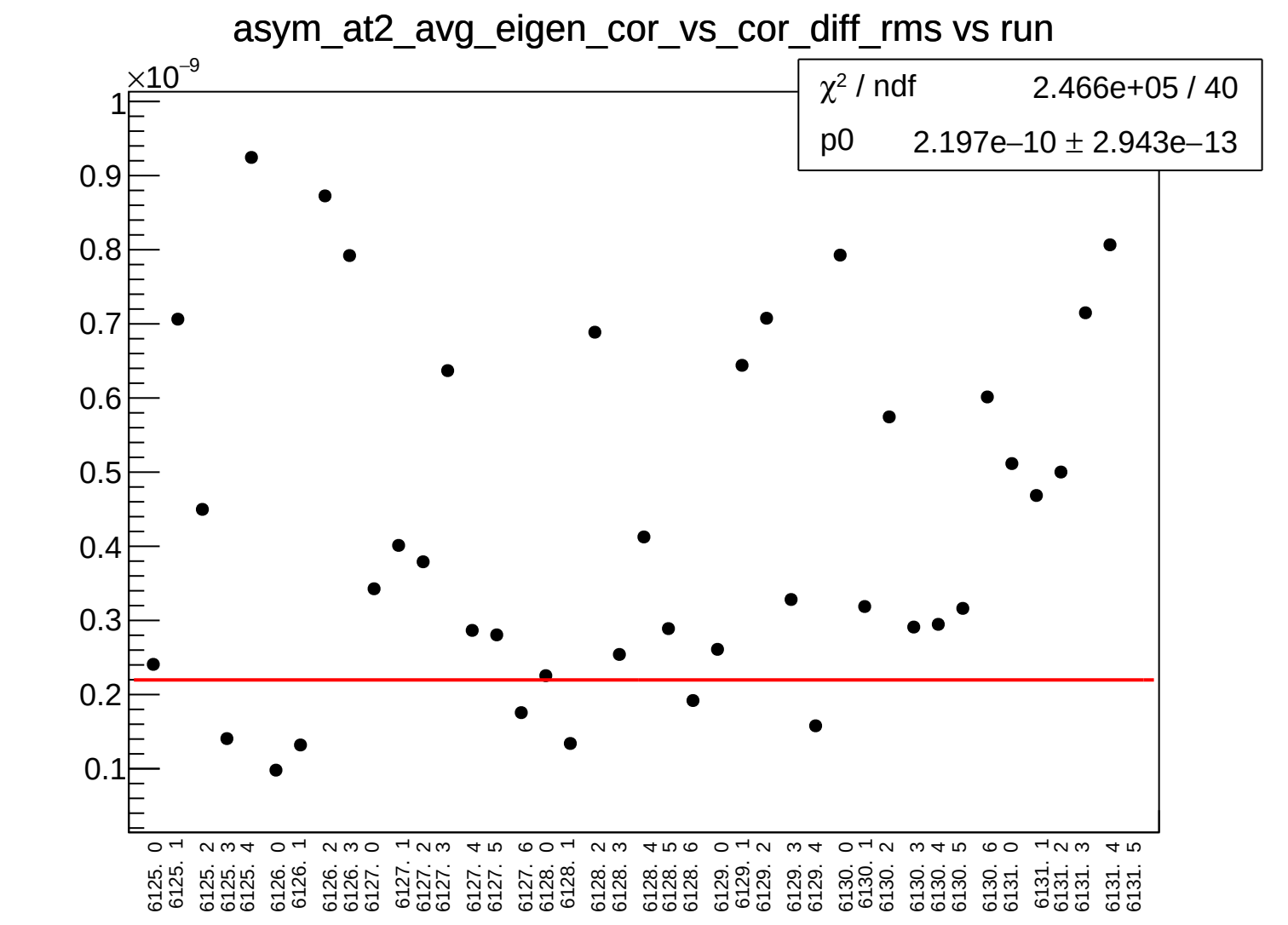

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4507 / 40
p0 254.2 ± 0.2843
320
300
280
260
240
220
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

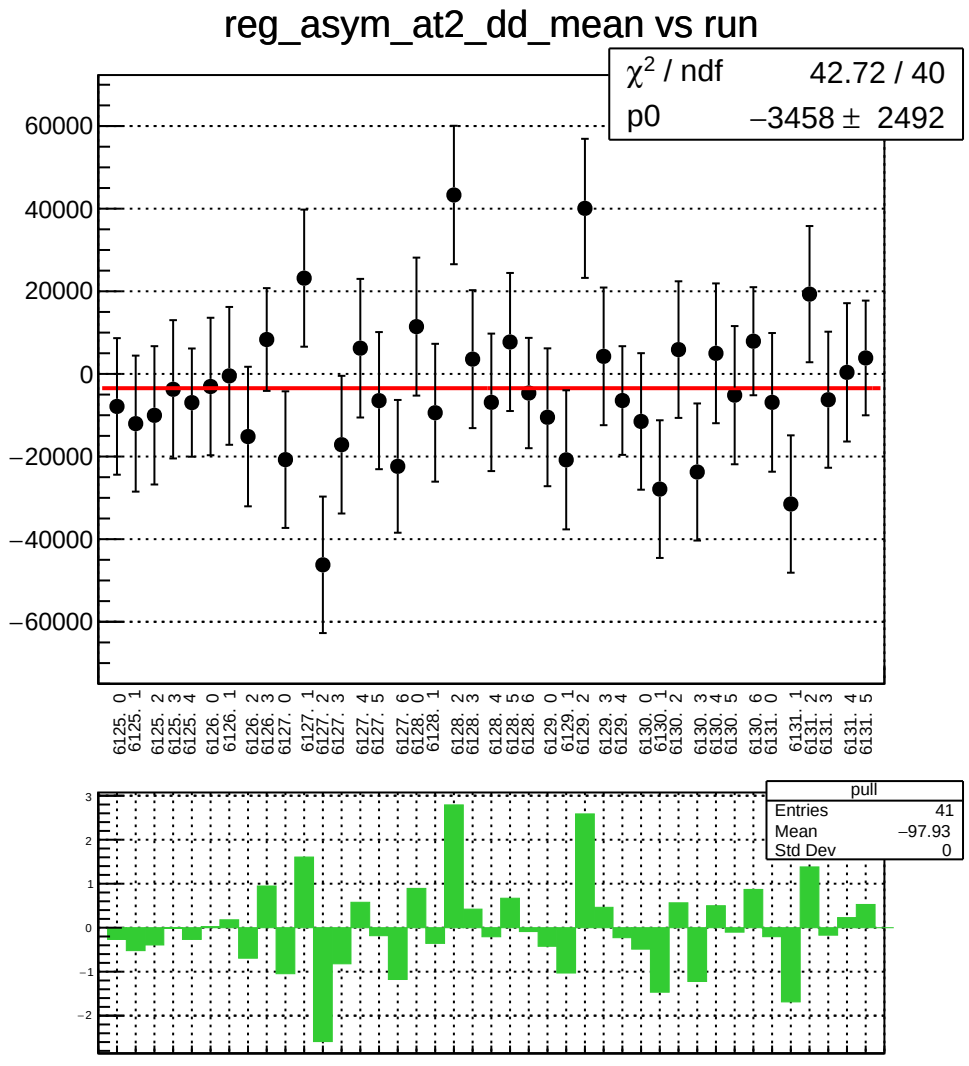

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.58 / 40
p0 −0.2197 ± 0.402
pull
Entries 41
Mean −30.8
Std Dev 0

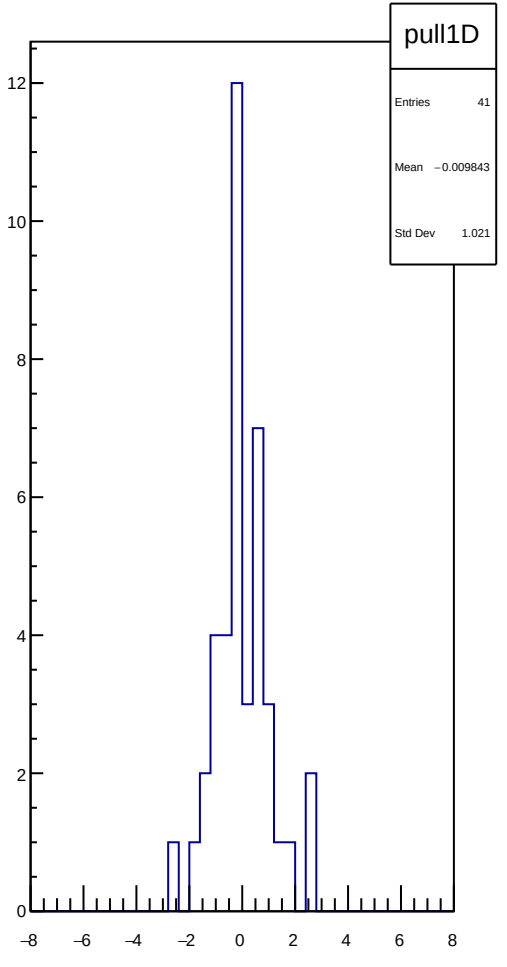

pull1D
Entries 41
Mean −0.01832
Std Dev 0.8912

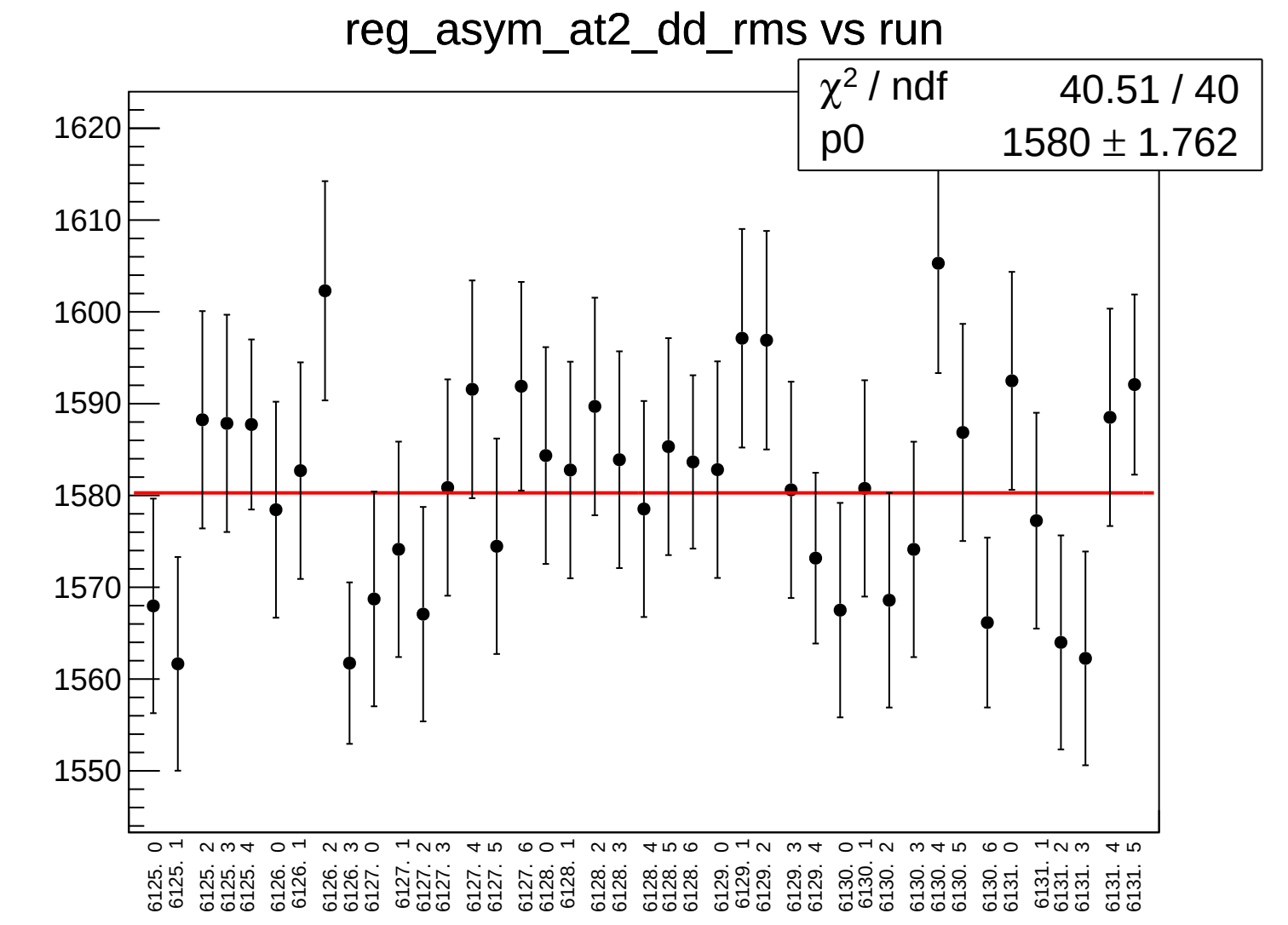

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4507 / 40
p0 254.2 ± 0.2843
320
300
280
260
240
220
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

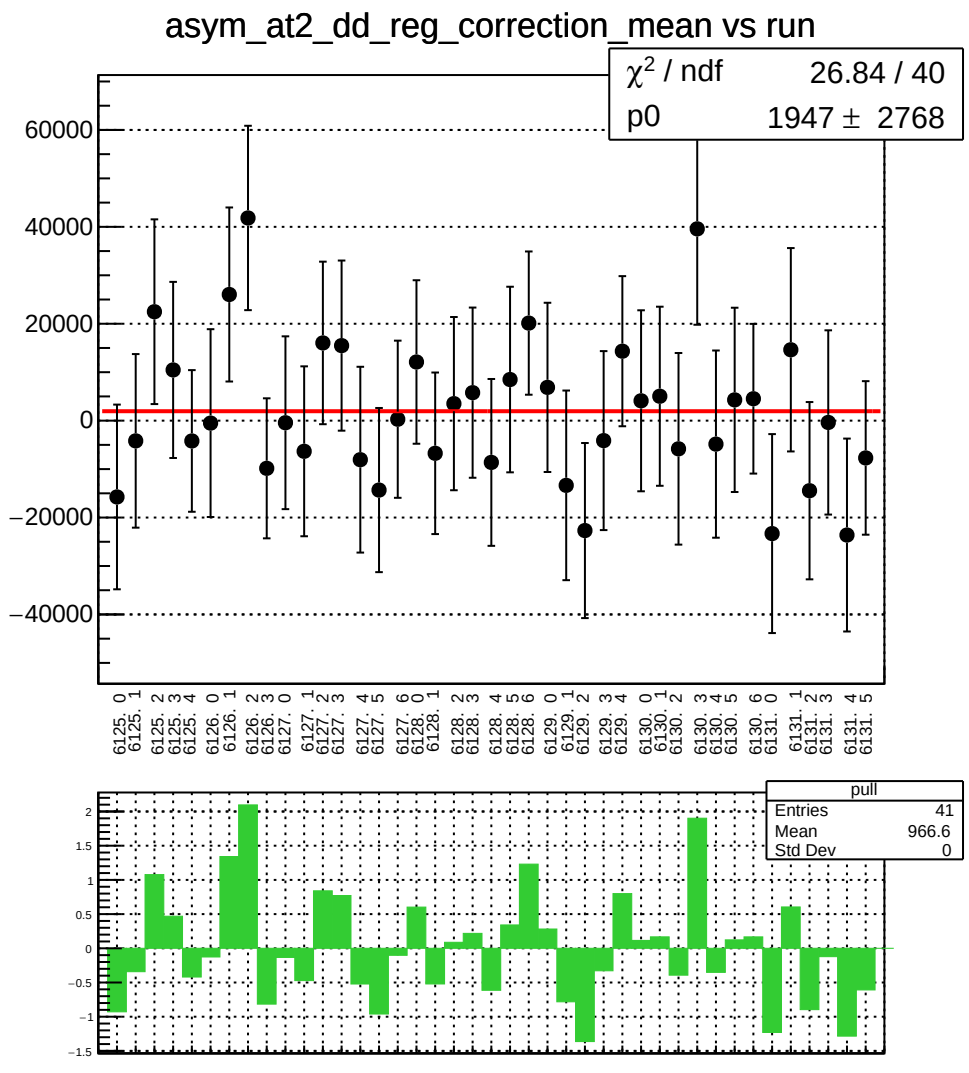

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 39.81 / 40
p0 −1.998e−13 ± 4.161e−13
30
20
10
0
−10
−20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −189.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.002168
Std Dev 0.9853
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

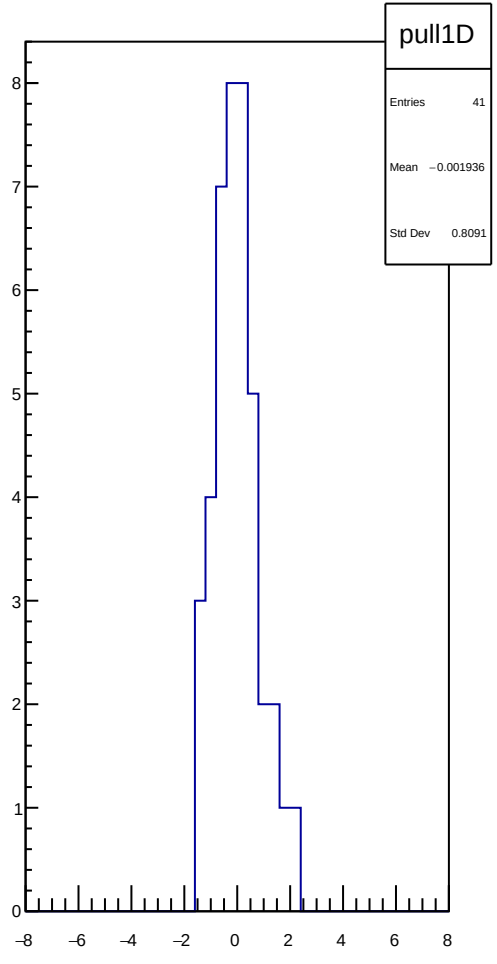

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.466e+05 / 40
p0 2.197e−10 ± 2.943e−13
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

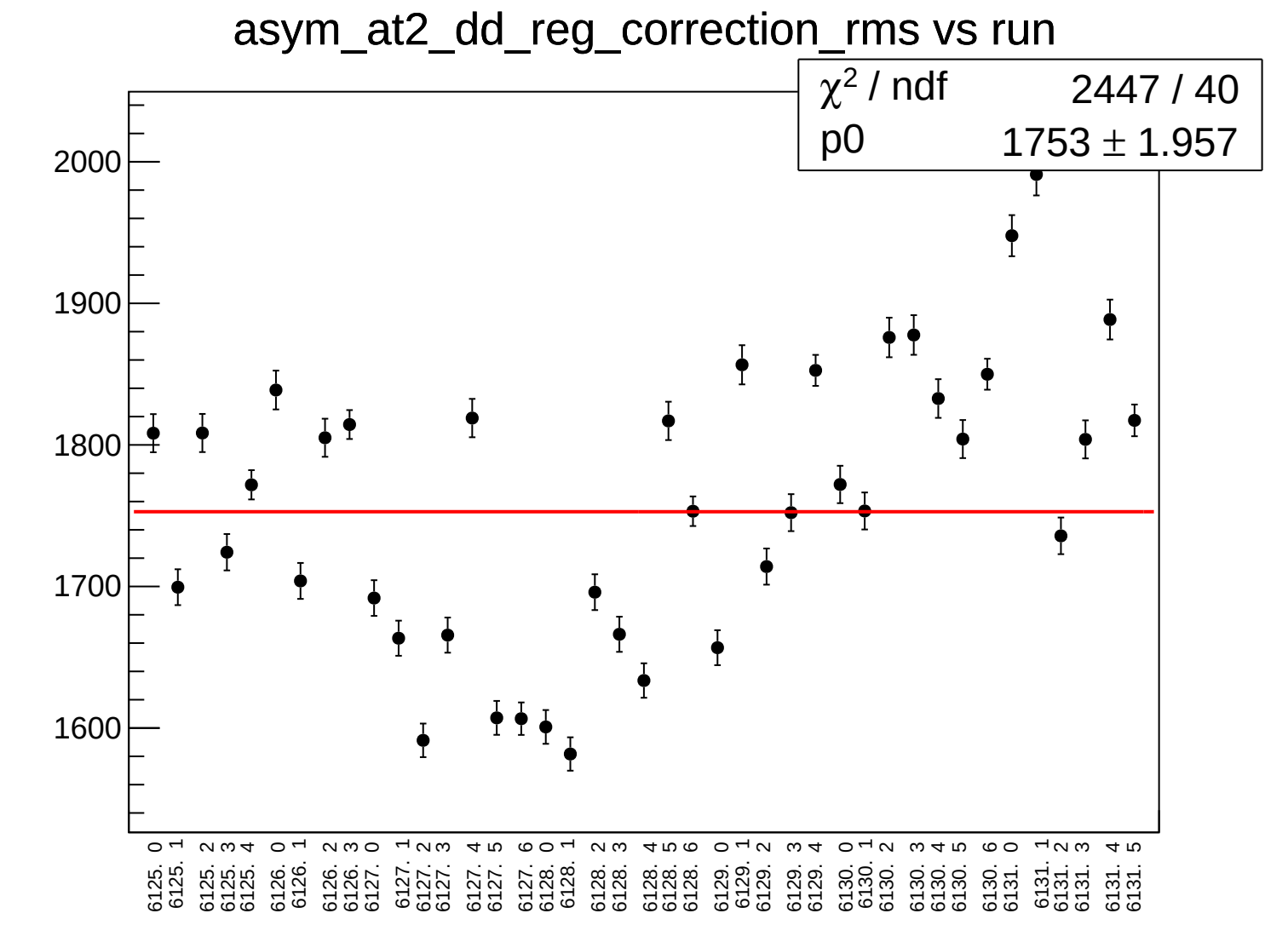

reg_asym_at2_dd_mean vs run
χ² / ndf 42.72 / 40
p0 −3458 ± 2492
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −97.93
Std Dev 0
3
2
1
0
−1
−2

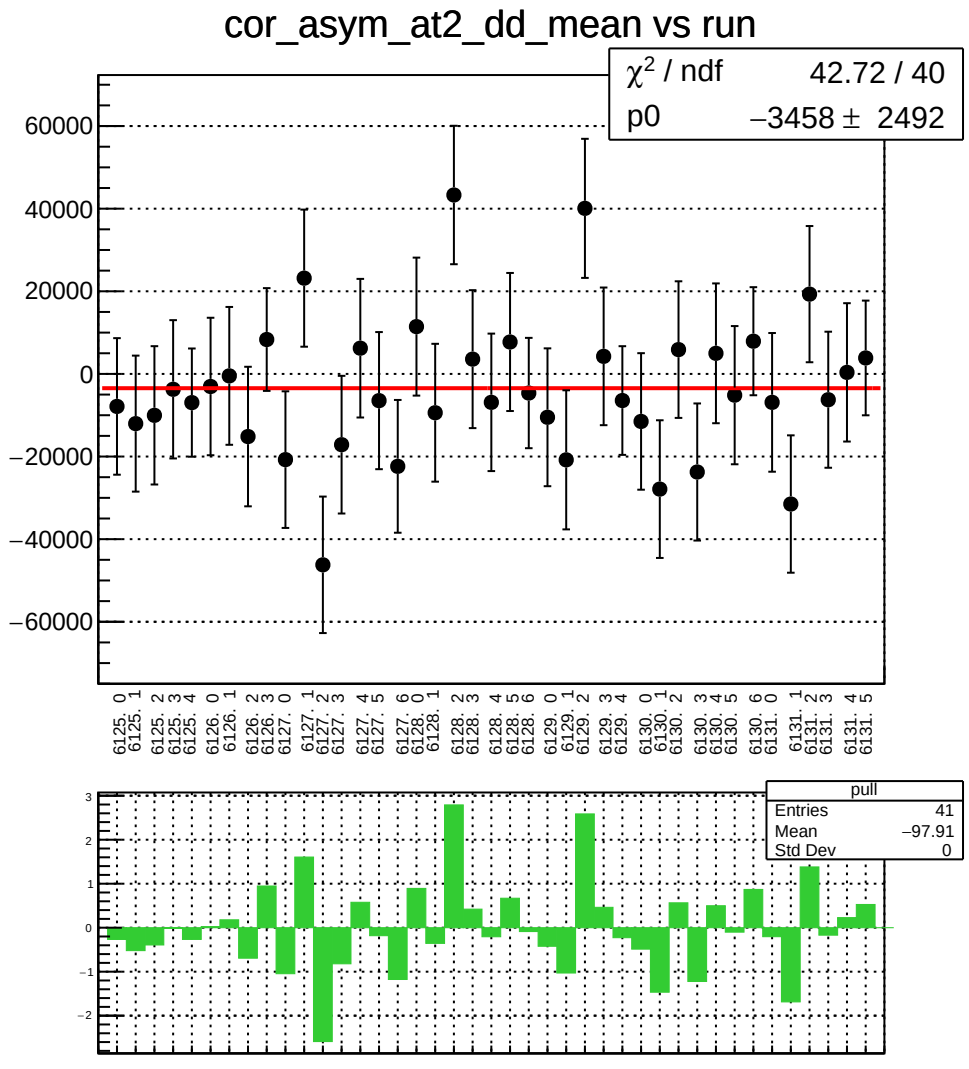

pull1D
Entries 41
Mean −0.009843
Std Dev 1.021
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

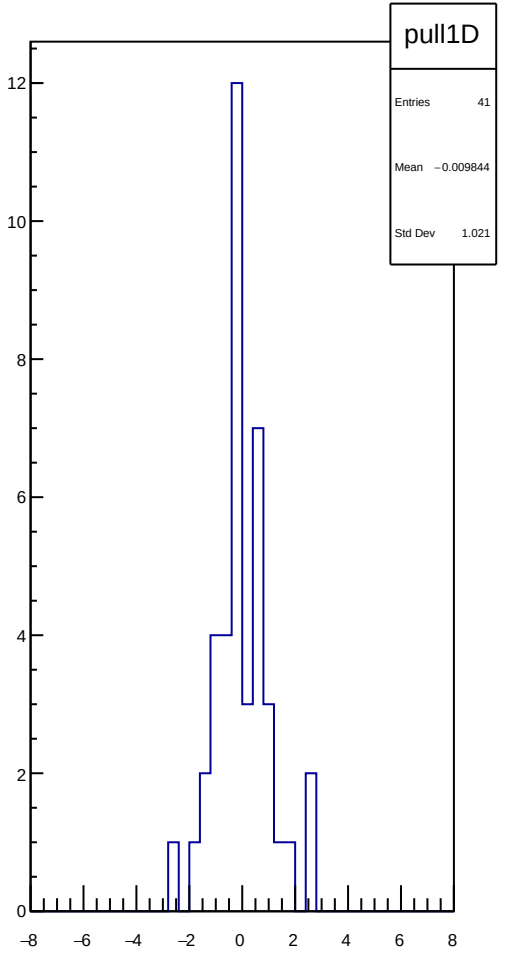

reg_asym_at2_dd_rms vs run
χ² / ndf 40.51 / 40
p0 1580 ± 1.762
1620
1610
1600
1590
1580
1570
1560
1550
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

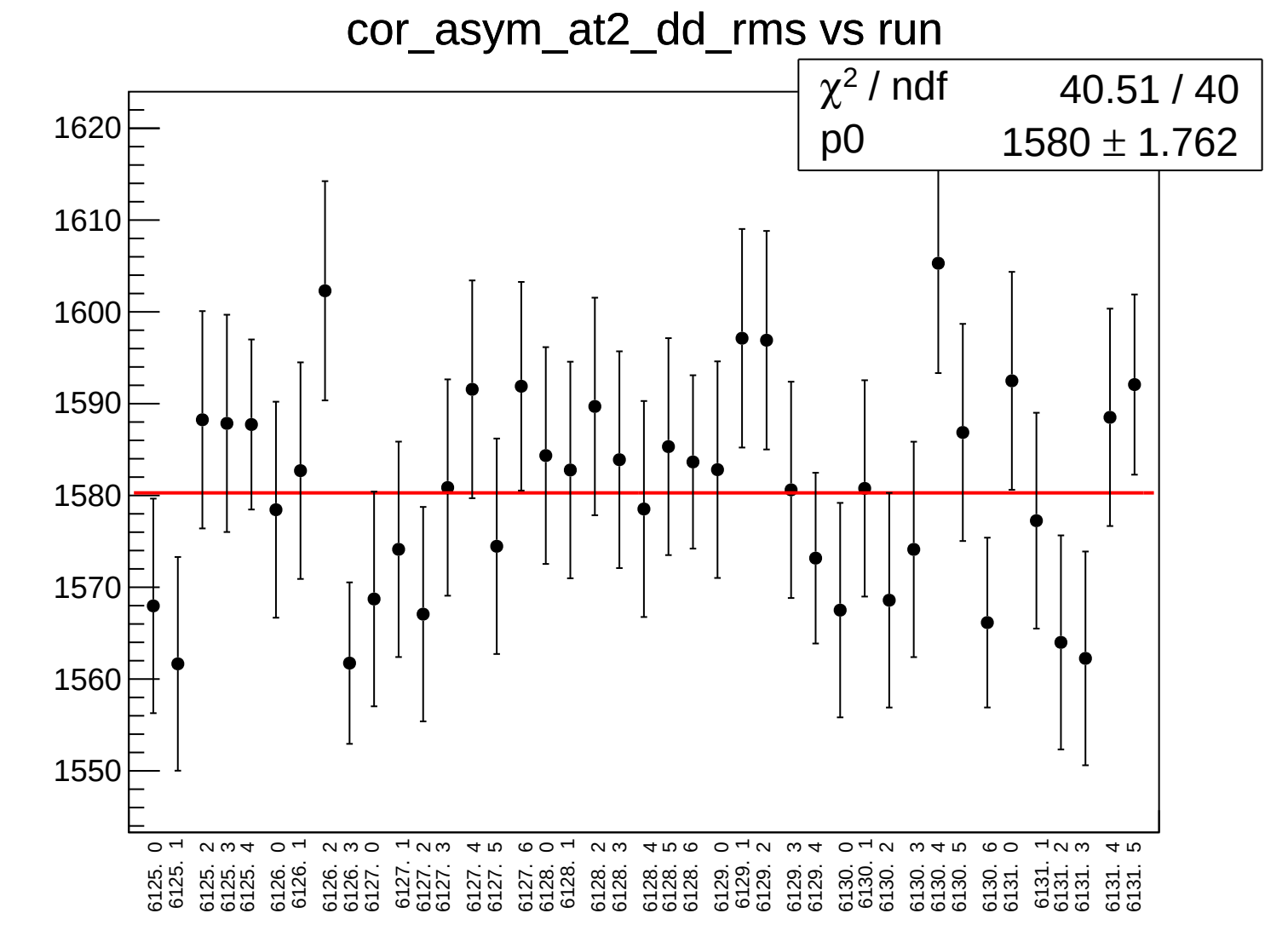

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 26.84 / 40
p0 1947 ± 2768
pull
Entries 41
Mean 966.6
Std Dev 0

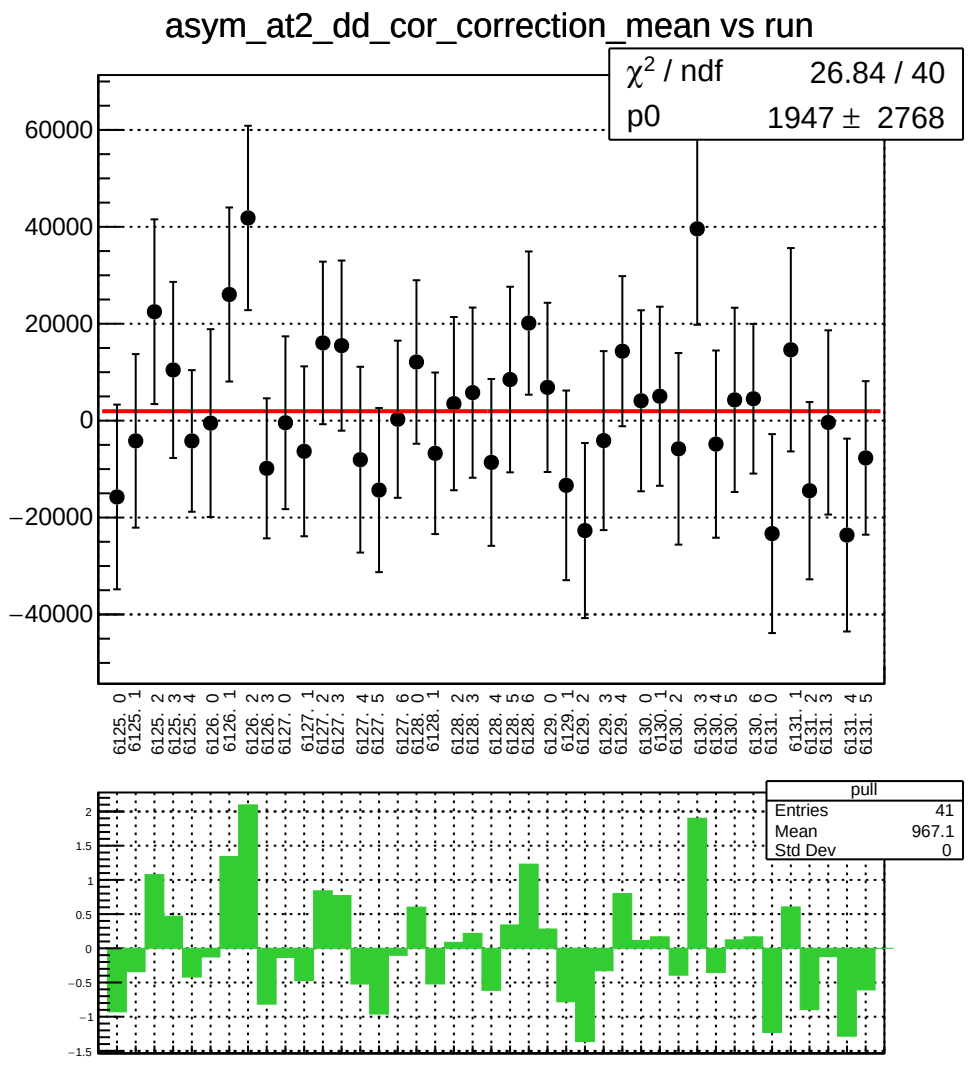

pull1D
Entries 41
Mean −0.001936
Std Dev 0.8091

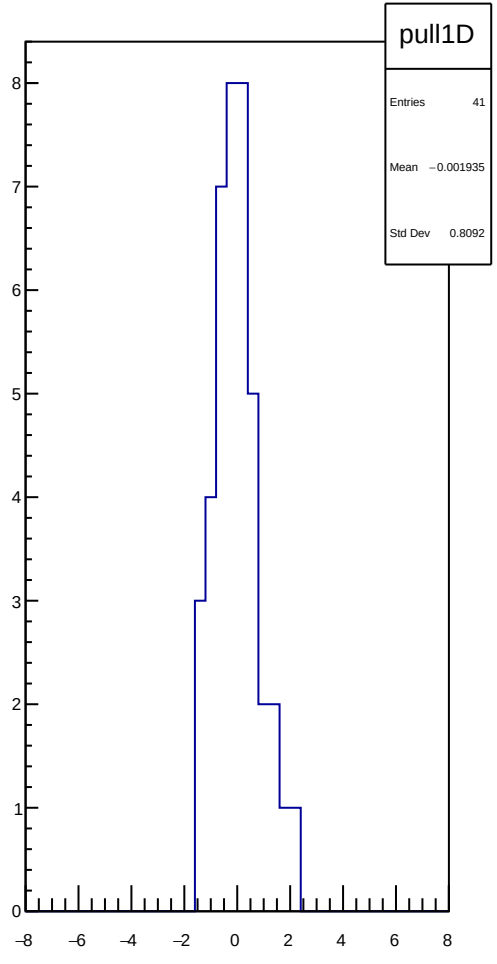

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 2447 / 40
p0 1753 ± 1.957
2000
1900
1800
1700
1600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

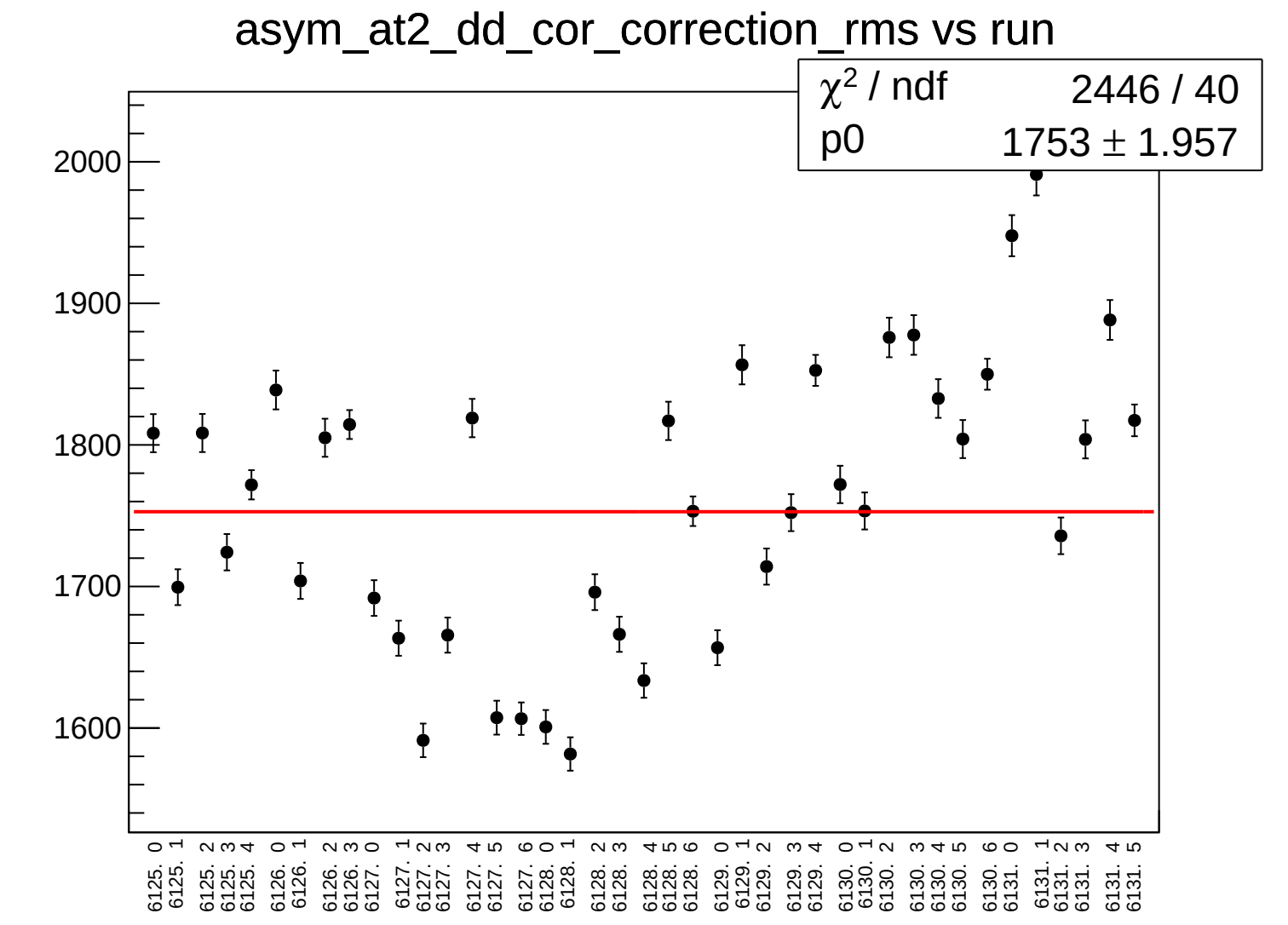

cor_asym_at2_dd_mean vs run
χ² / ndf 42.72 / 40
p0 −3458 ± 2492
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −97.91
Std Dev 0
3
2
1
0
−1
−2

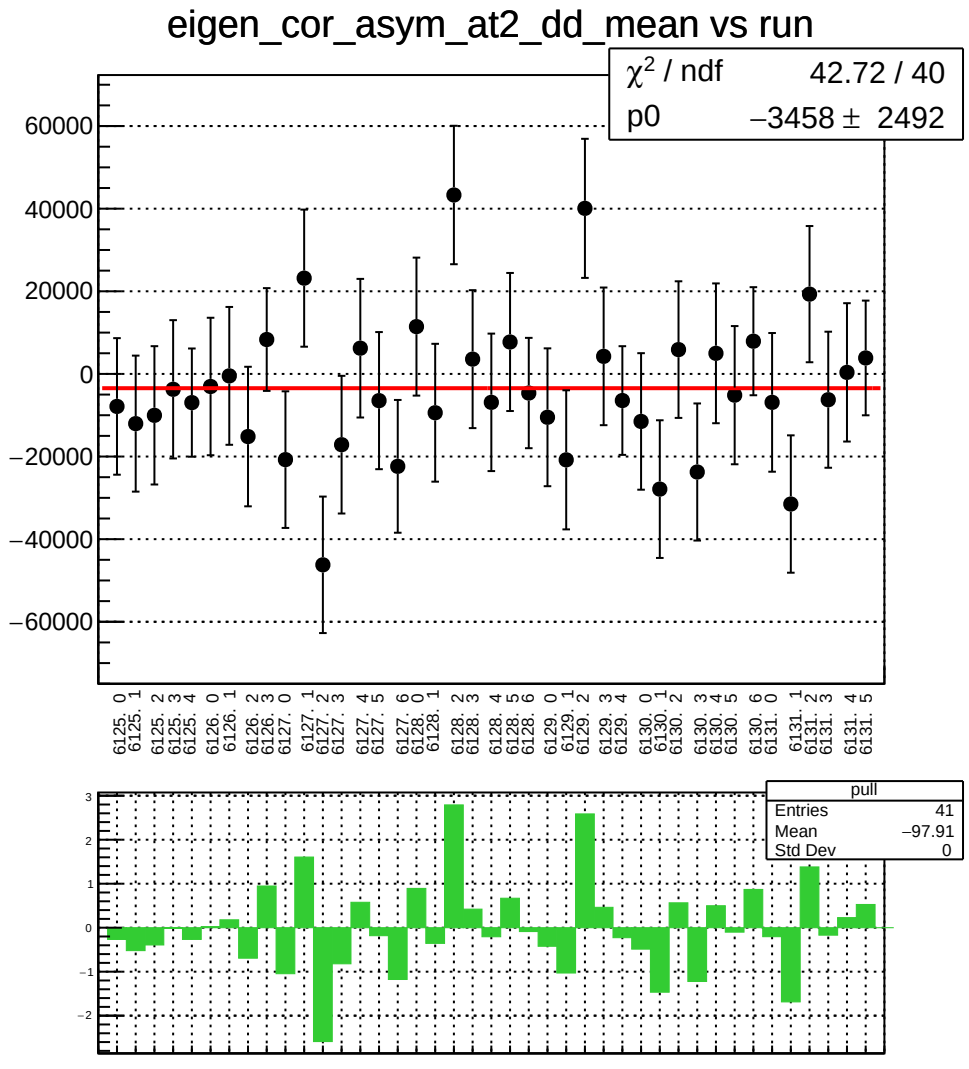

pull1D
Entries 41
Mean −0.009844
Std Dev 1.021
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

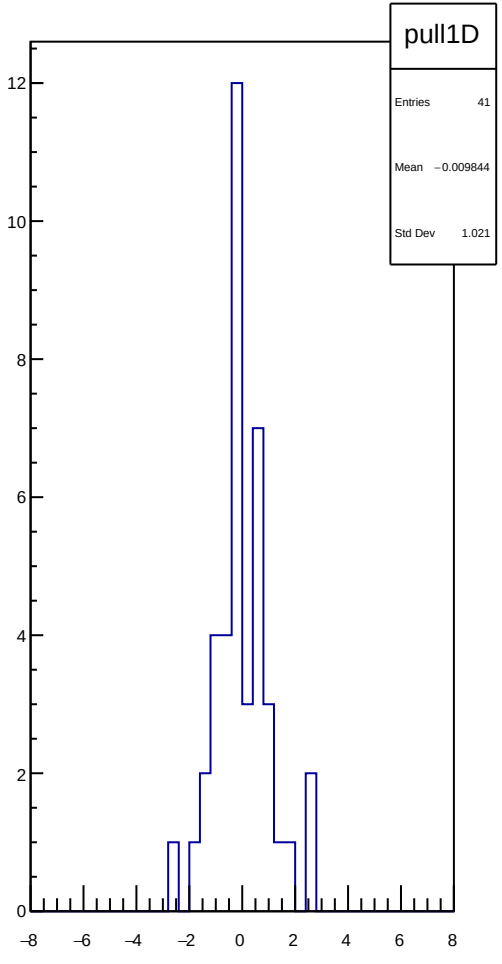

cor_asym_at2_dd_rms vs run
χ² / ndf 40.51 / 40
p0 1580 ± 1.762
1620
1610
1600
1590
1580
1570
1560
1550
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

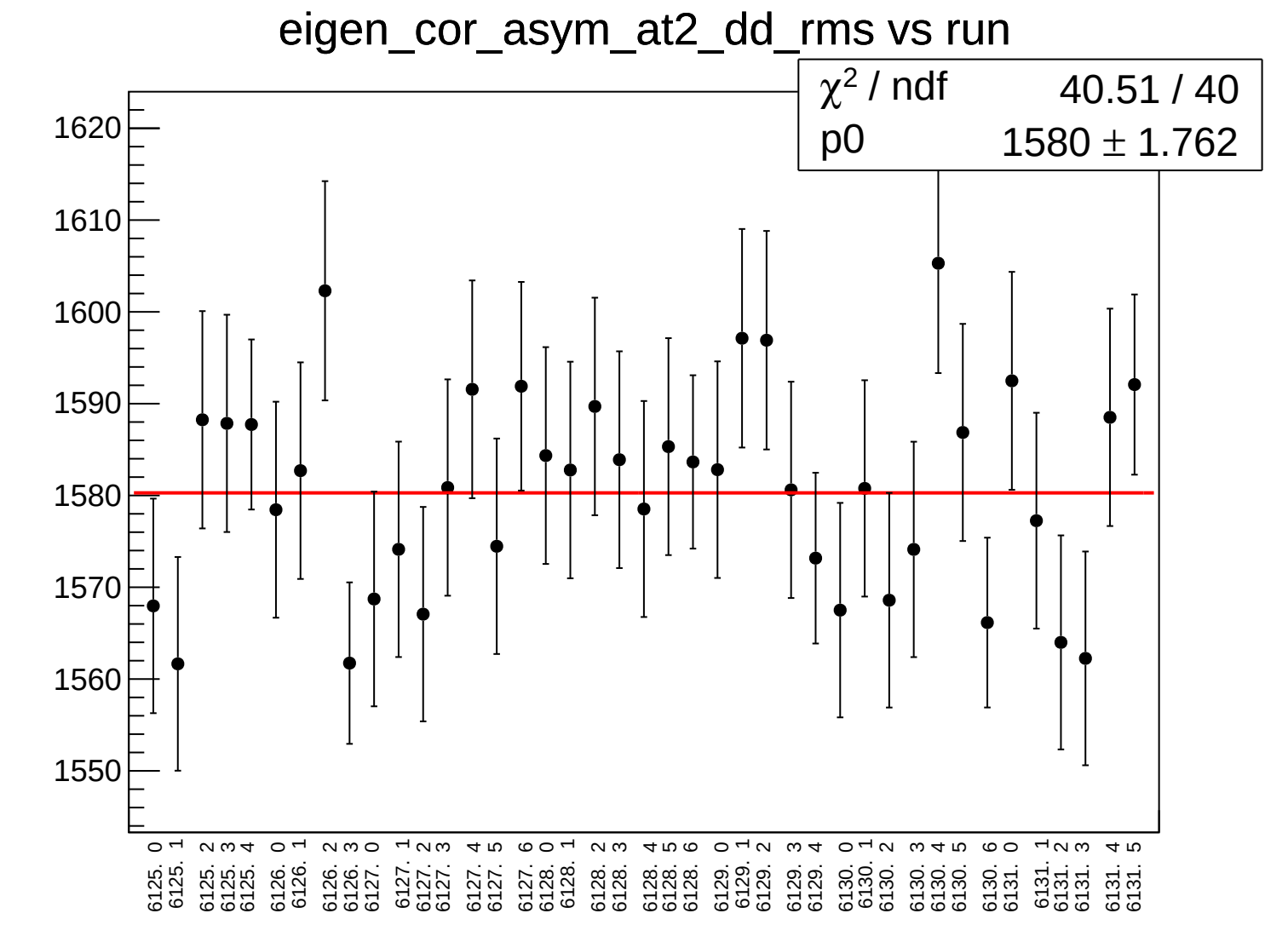

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 26.84 / 40
p0 1947 ± 2768
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 967.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

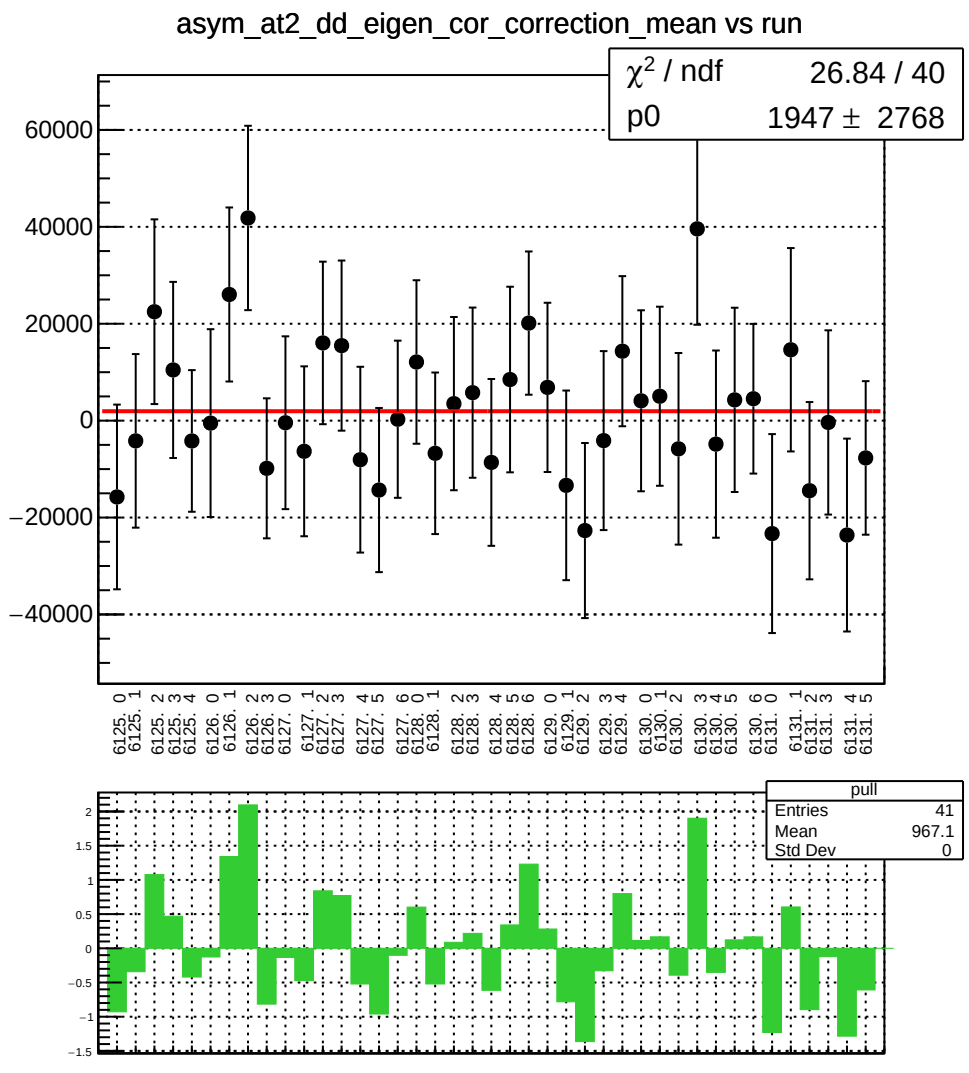

pull1D
Entries 41
Mean −0.001935
Std Dev 0.8092
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

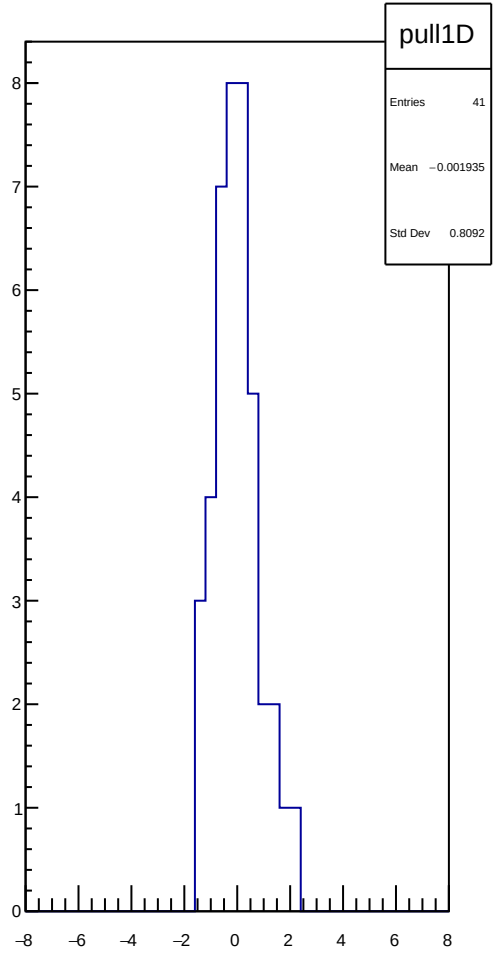

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 2446 / 40
p0 1753 ± 1.957
2000
1900
1800
1700
1600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

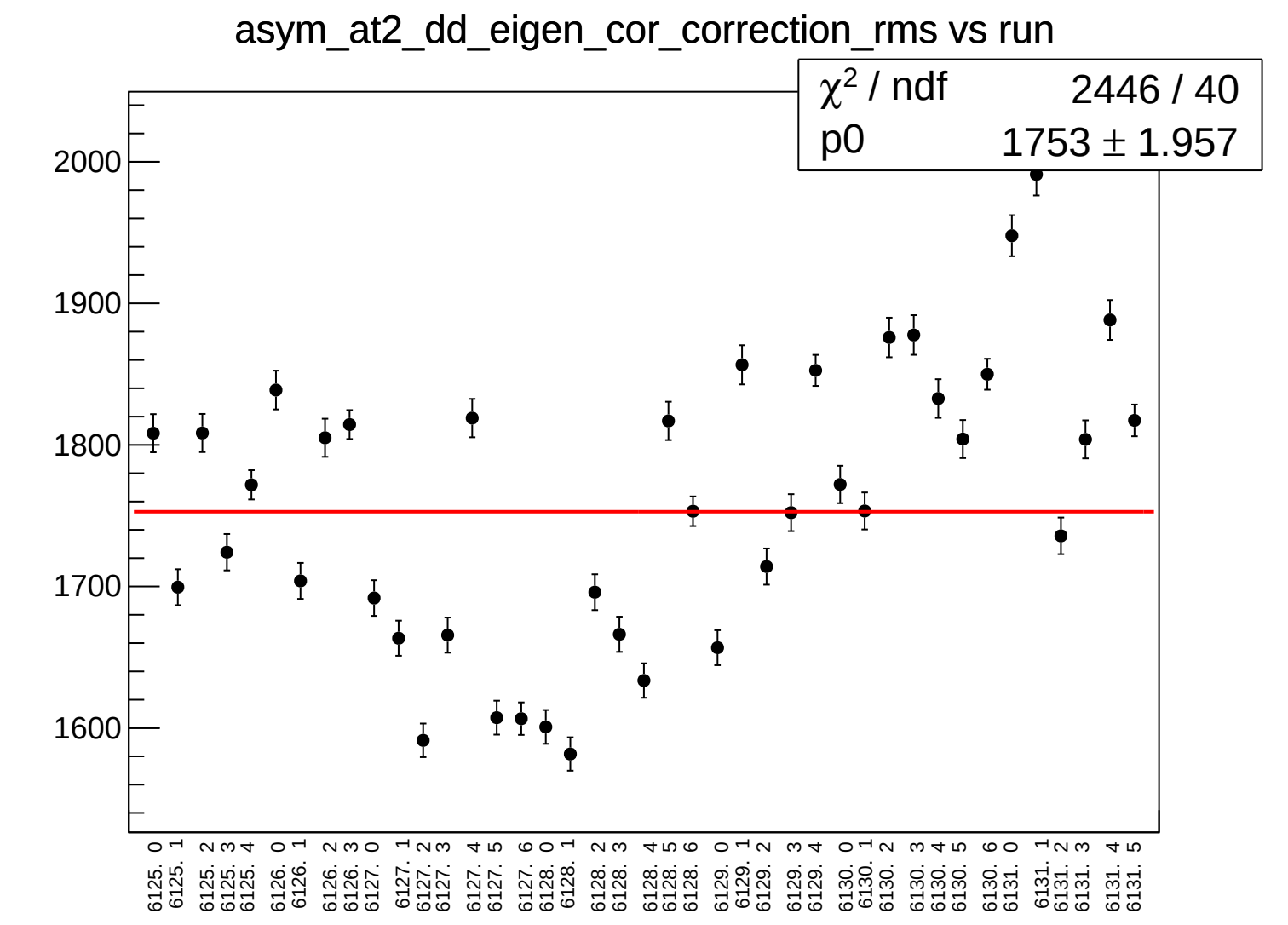

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 42.72 / 40
p0 −3458 ± 2492
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −97.91
Std Dev 0
3
2
1
0
−1
−2

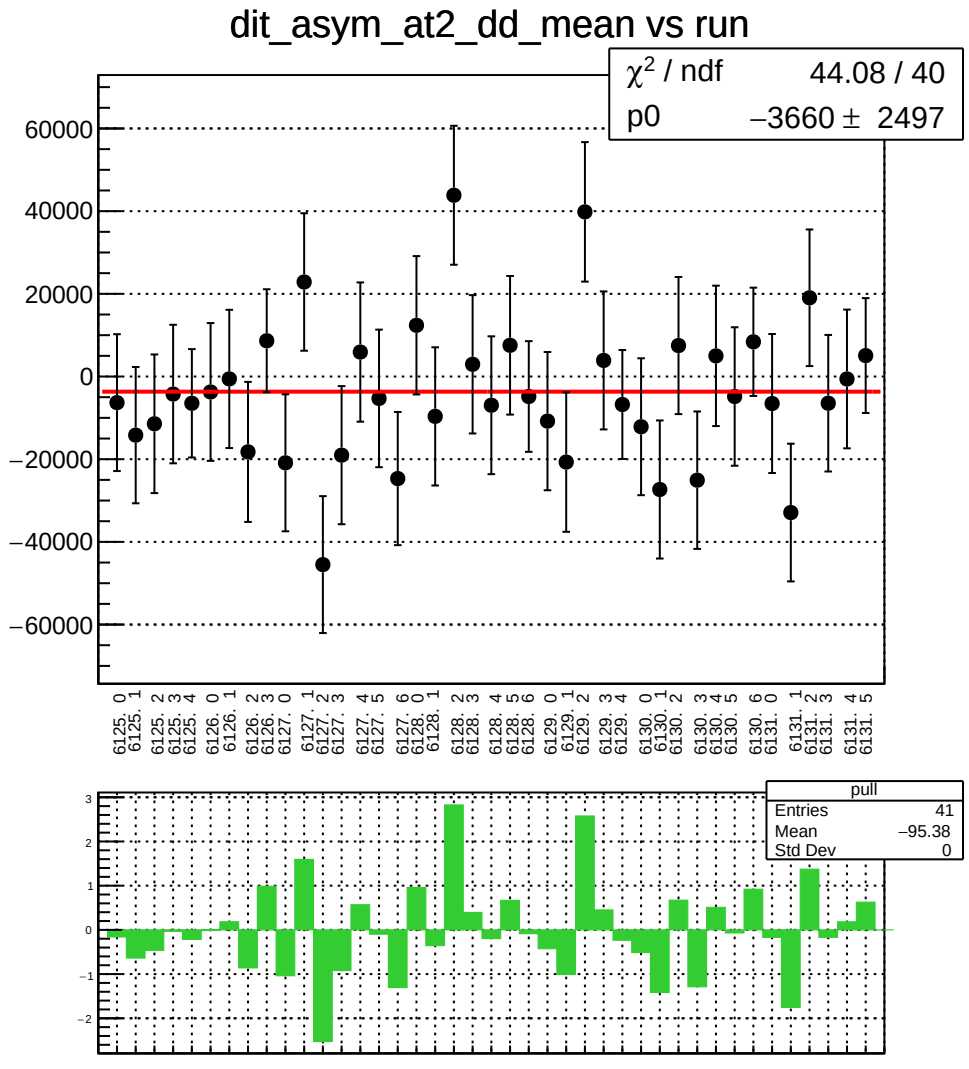

pull1D
Entries 41
Mean −0.009844
Std Dev 1.021
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

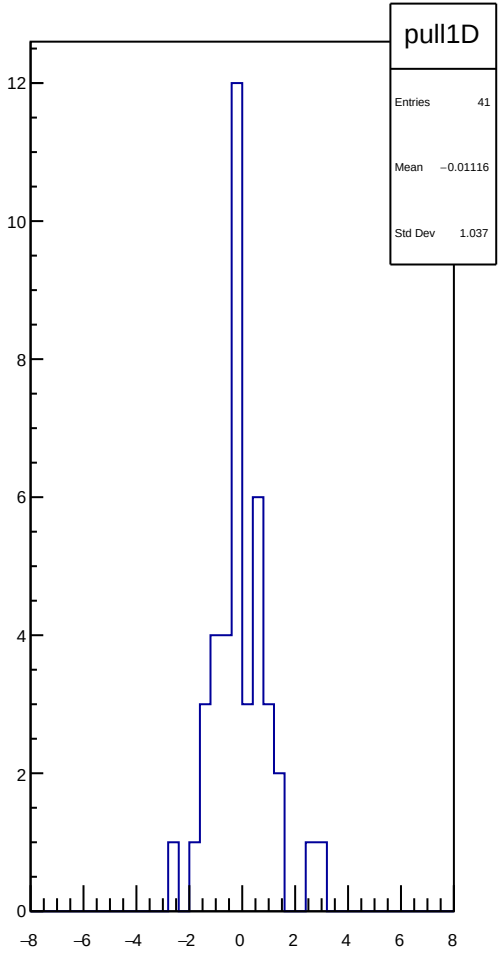

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 40.51 / 40
p0 1580 ± 1.762
1620
1610
1600
1590
1580
1570
1560
1550
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

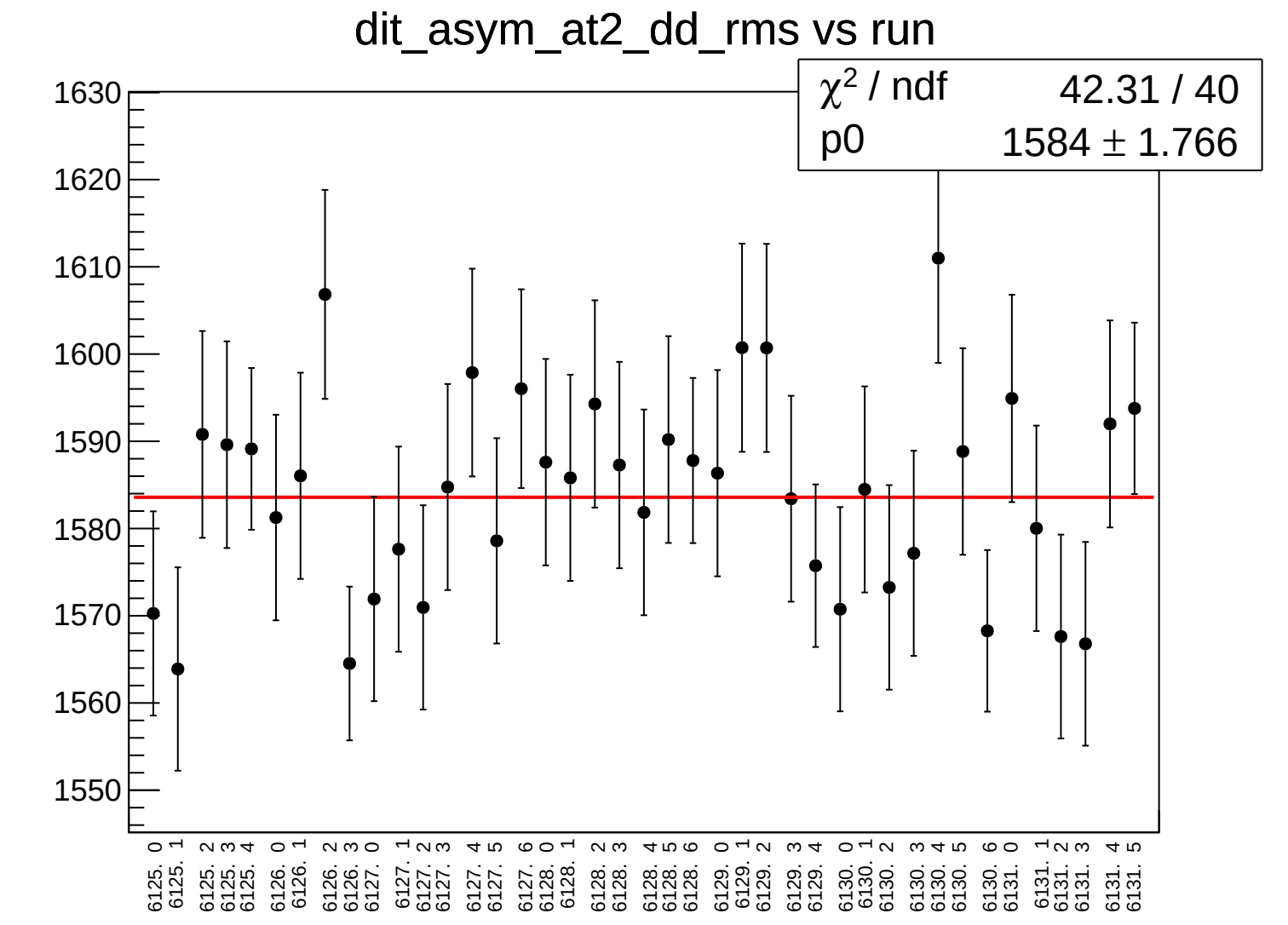

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 26.84 / 40
p0 1947 ± 2768
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 967.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

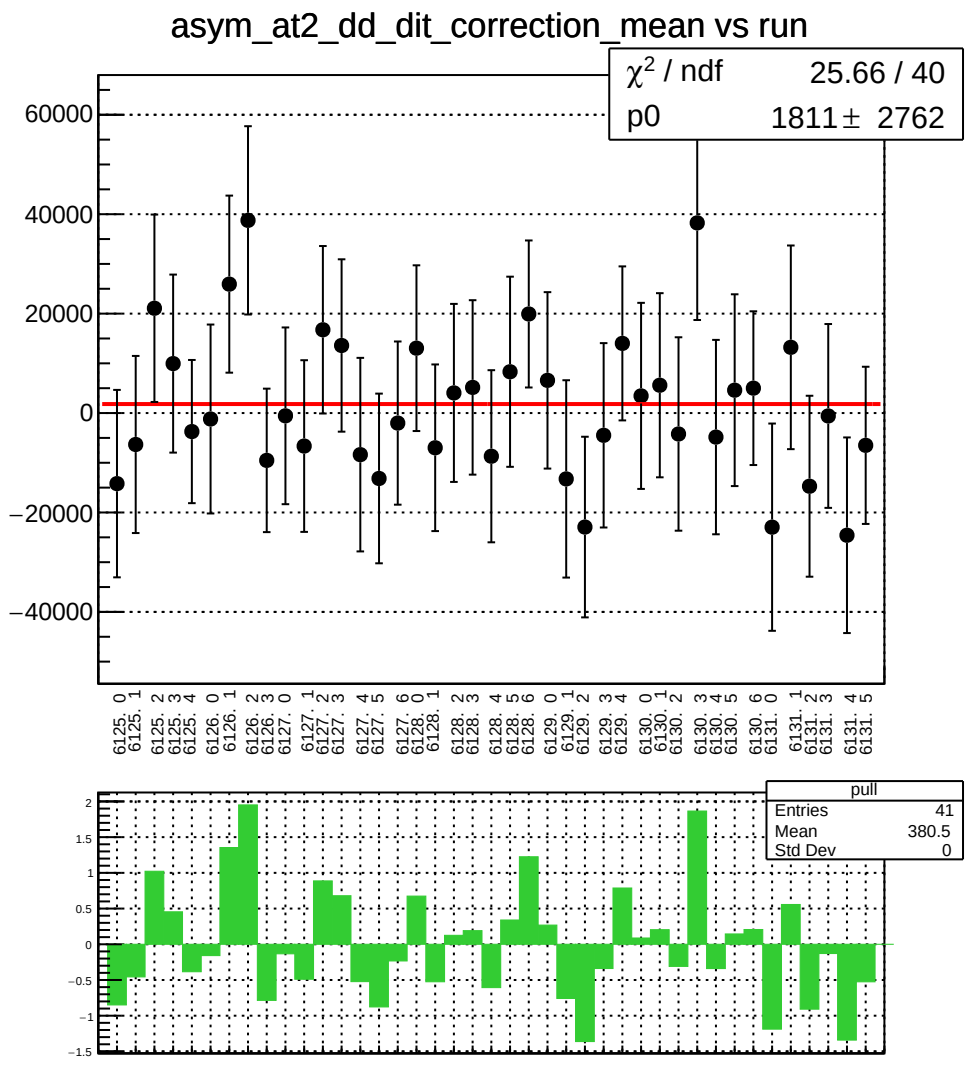

pull1D
Entries 41
Mean −0.001935
Std Dev 0.8092
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

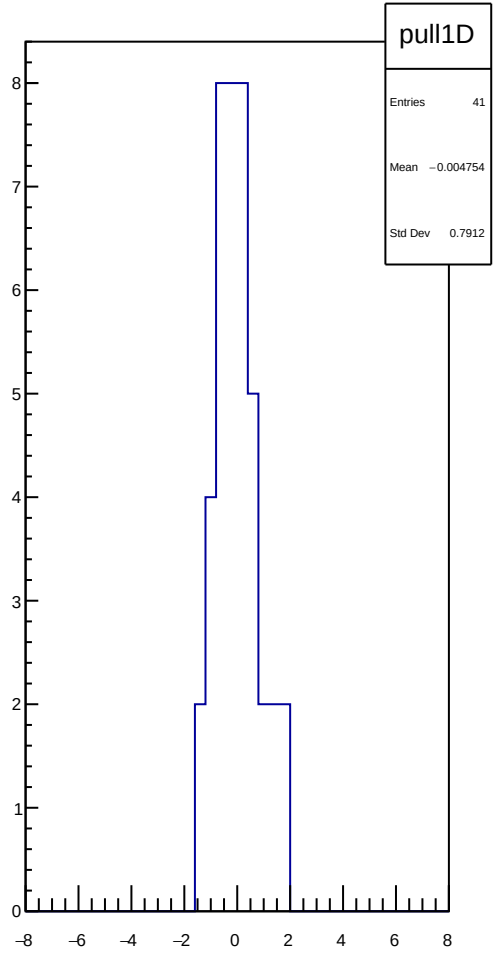

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2446 / 40
p0 1753 ± 1.957
2000
1900
1800
1700
1600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

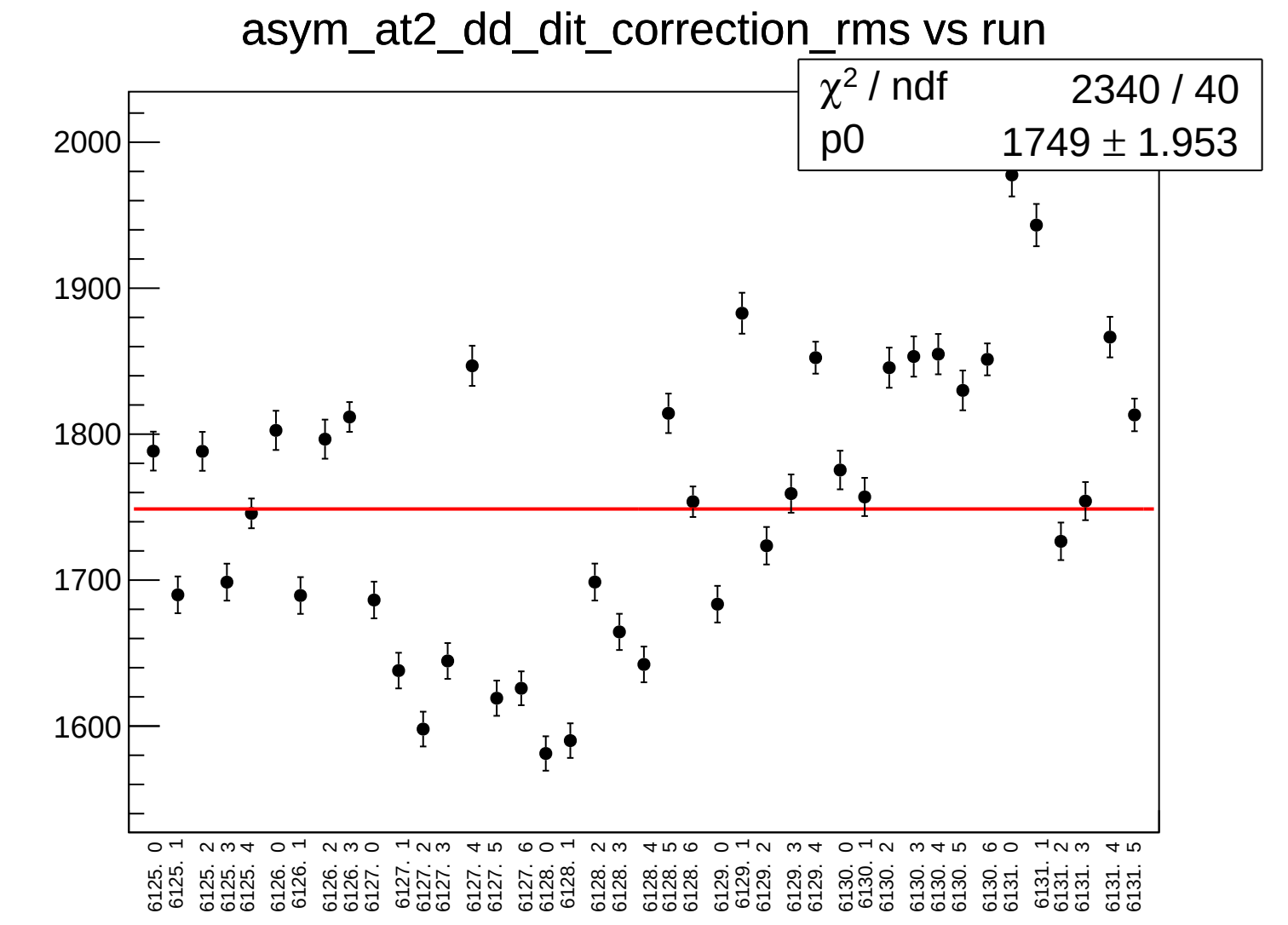

dit_asym_at2_dd_mean vs run
χ² / ndf 44.08 / 40
p0 −3660 ± 2497
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −95.38
Std Dev 0
3
2
1
0
−1
−2

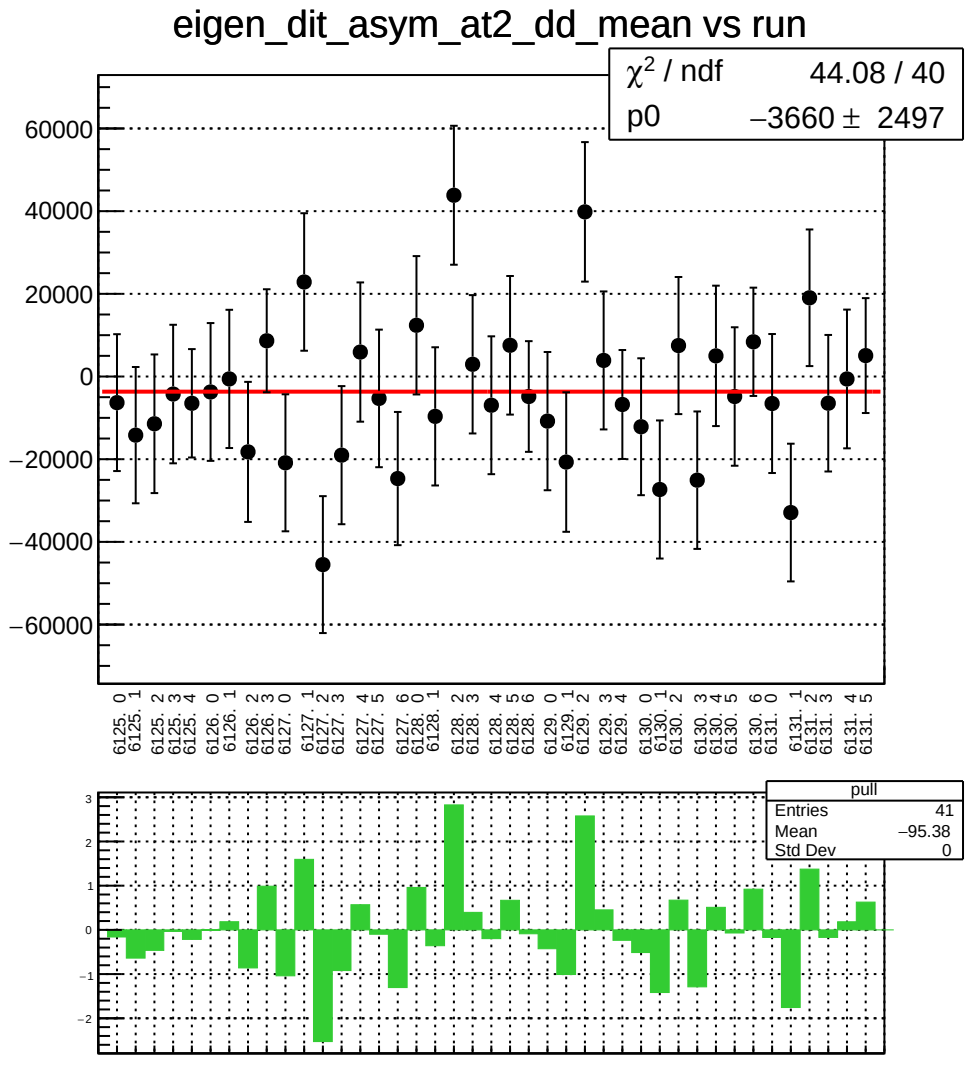

pull1D
Entries 41
Mean −0.01116
Std Dev 1.037
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

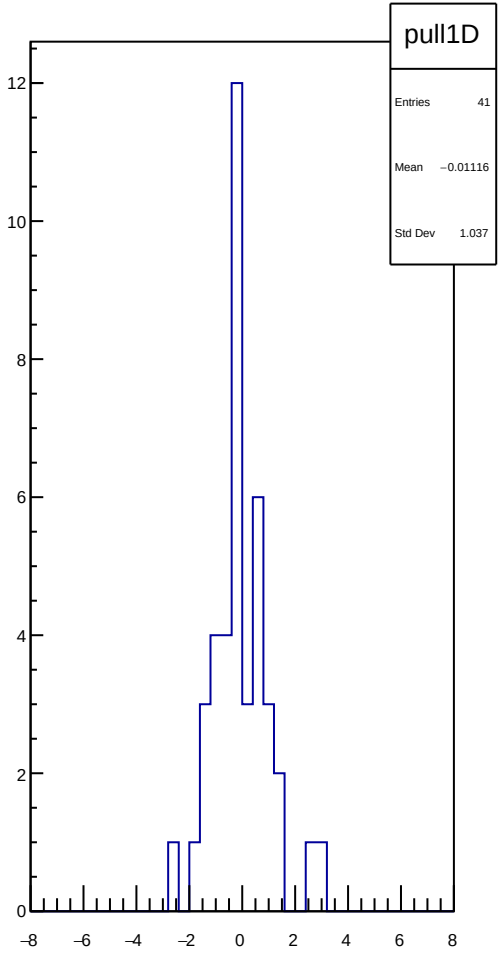

dit_asym_at2_dd_rms vs run
χ² / ndf 42.31 / 40
p0 1584 ± 1.766
1630
1620
1610
1600
1590
1580
1570
1560
1550
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

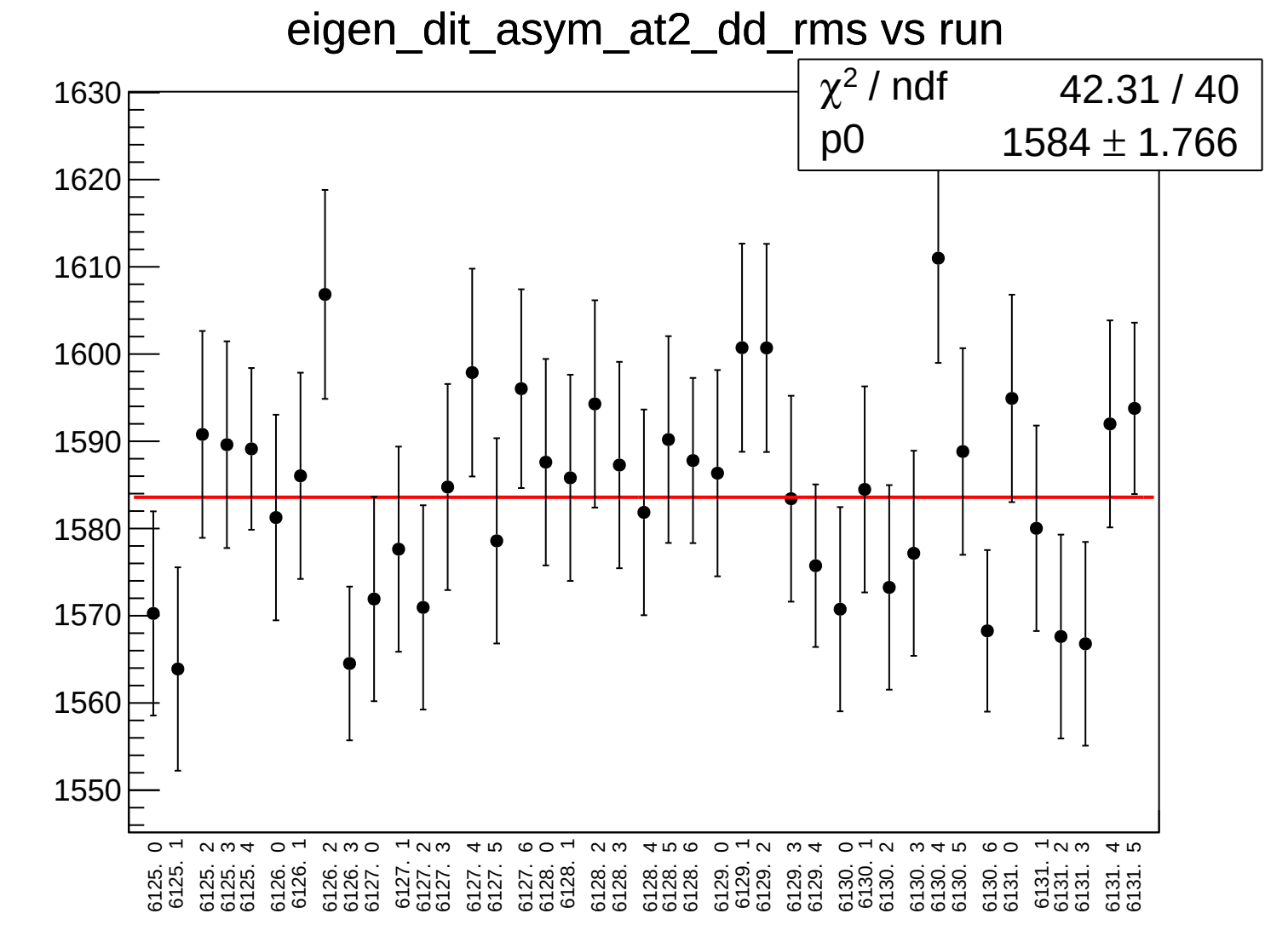

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 25.66 / 40
p0 1811 ± 2762
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 380.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

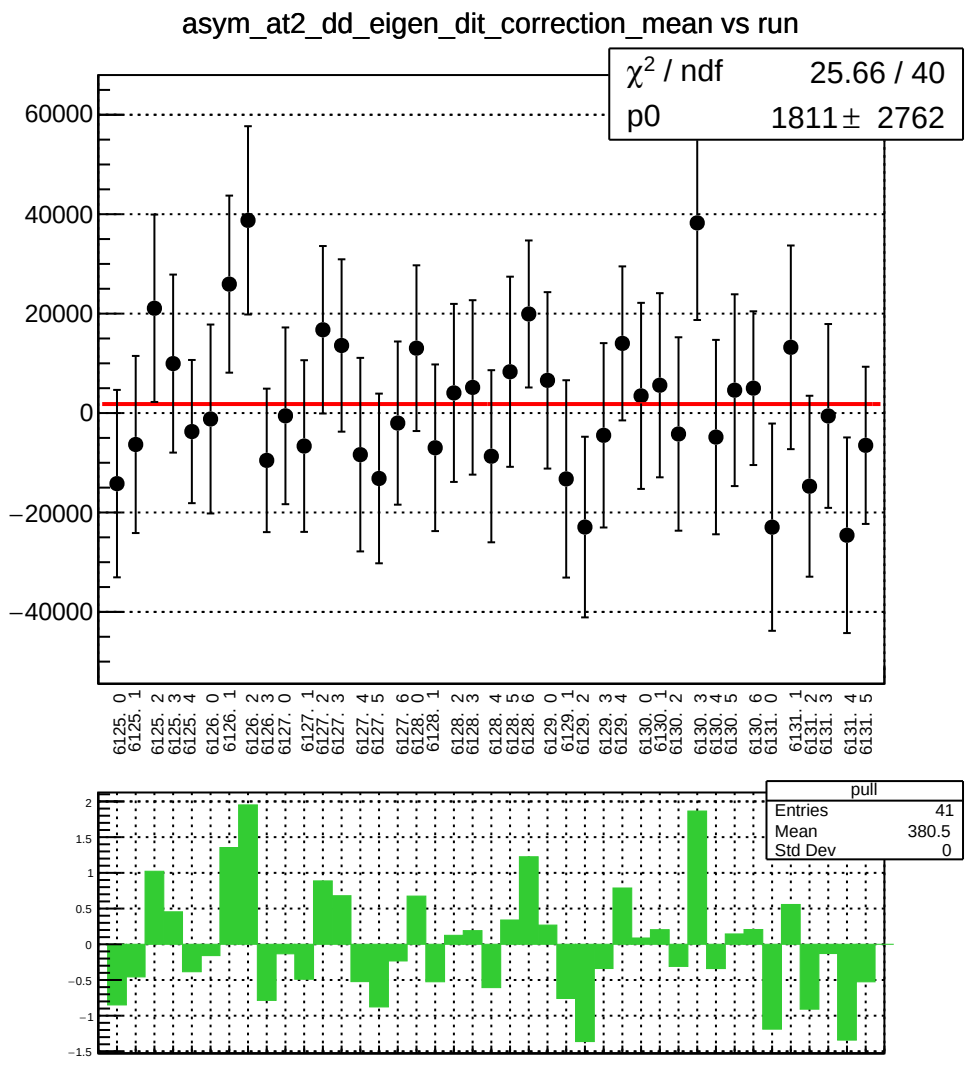

pull1D
Entries 41
Mean −0.004754
Std Dev 0.7912
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

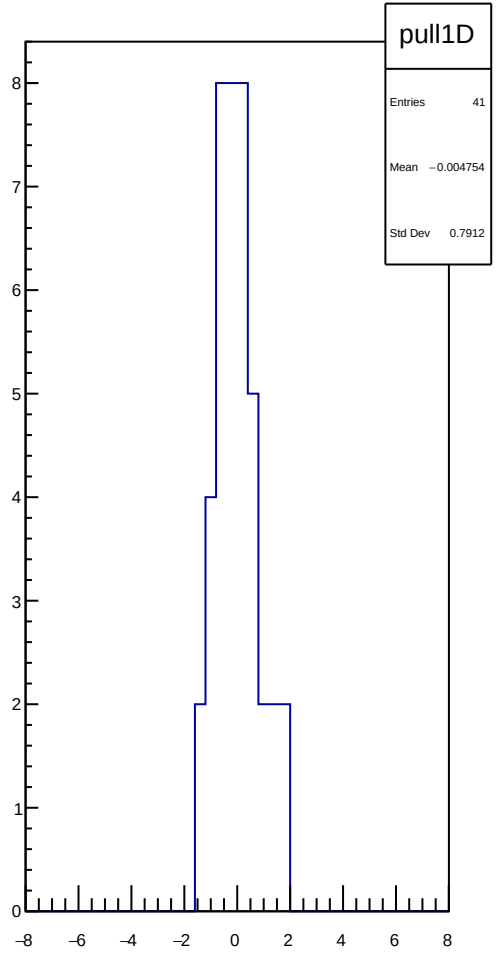

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 2340 / 40
p0 1749 ± 1.953
2000
1900
1800
1700
1600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

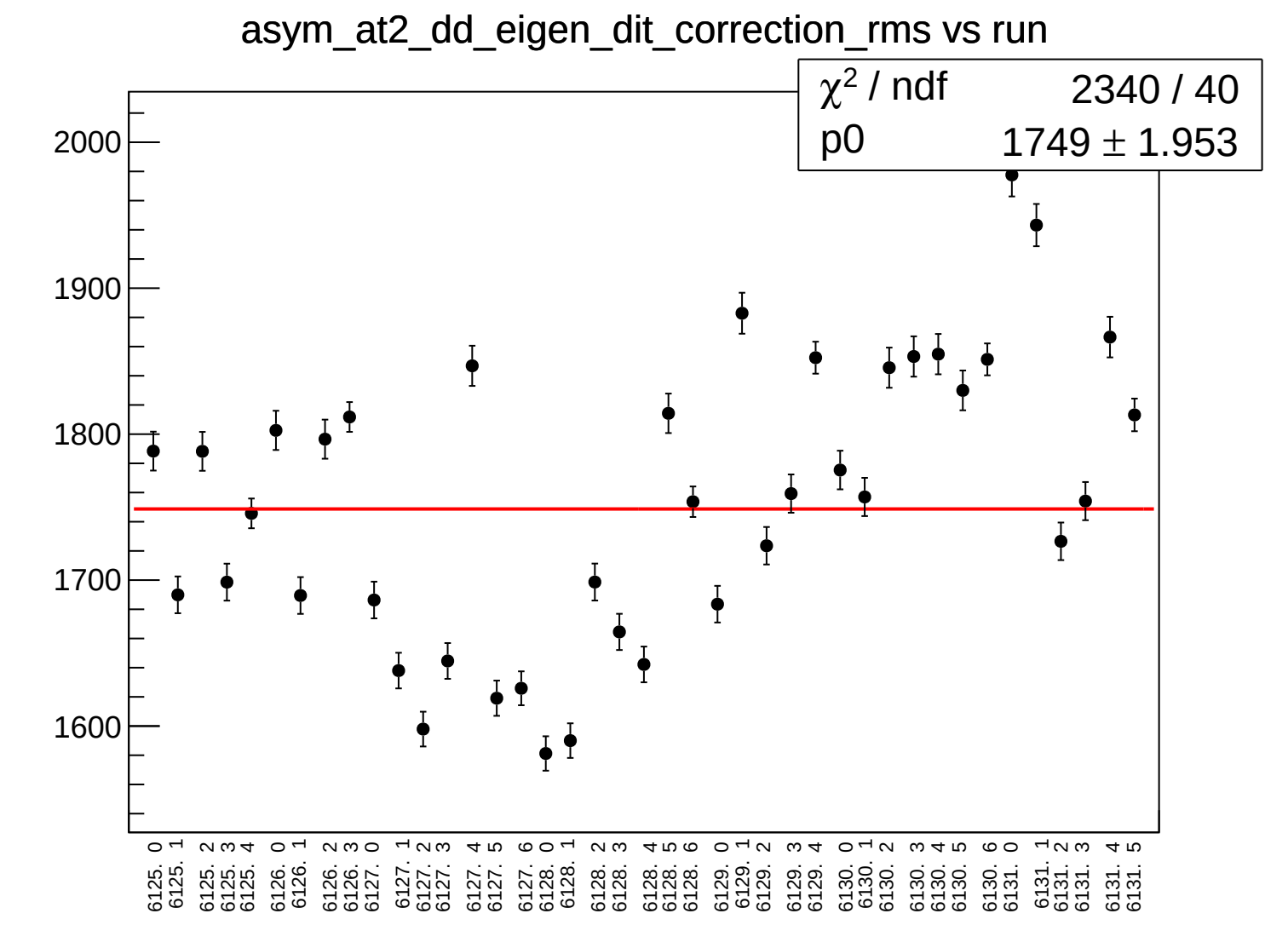

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 44.08 / 40
p0 −3660 ± 2497
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −95.38
Std Dev 0
3
2
1
0
−1
−2

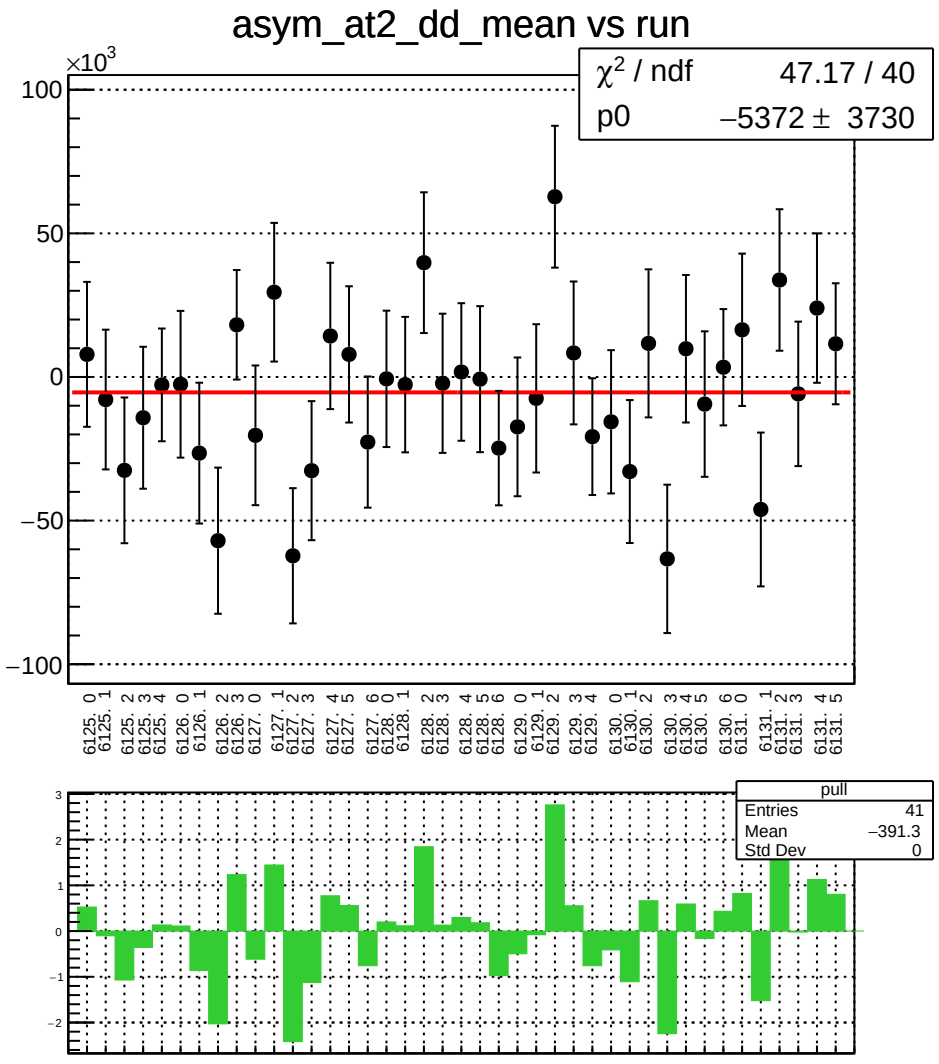

pull1D
Entries 41
Mean −0.01116
Std Dev 1.037
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

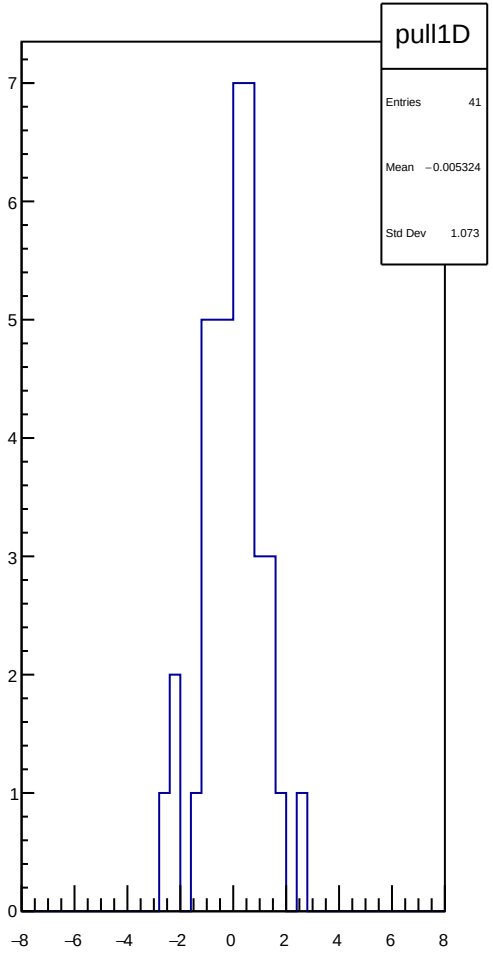

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 42.31 / 40
p0 1584 ± 1.766
1630
1620
1610
1600
1590
1580
1570
1560
1550
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

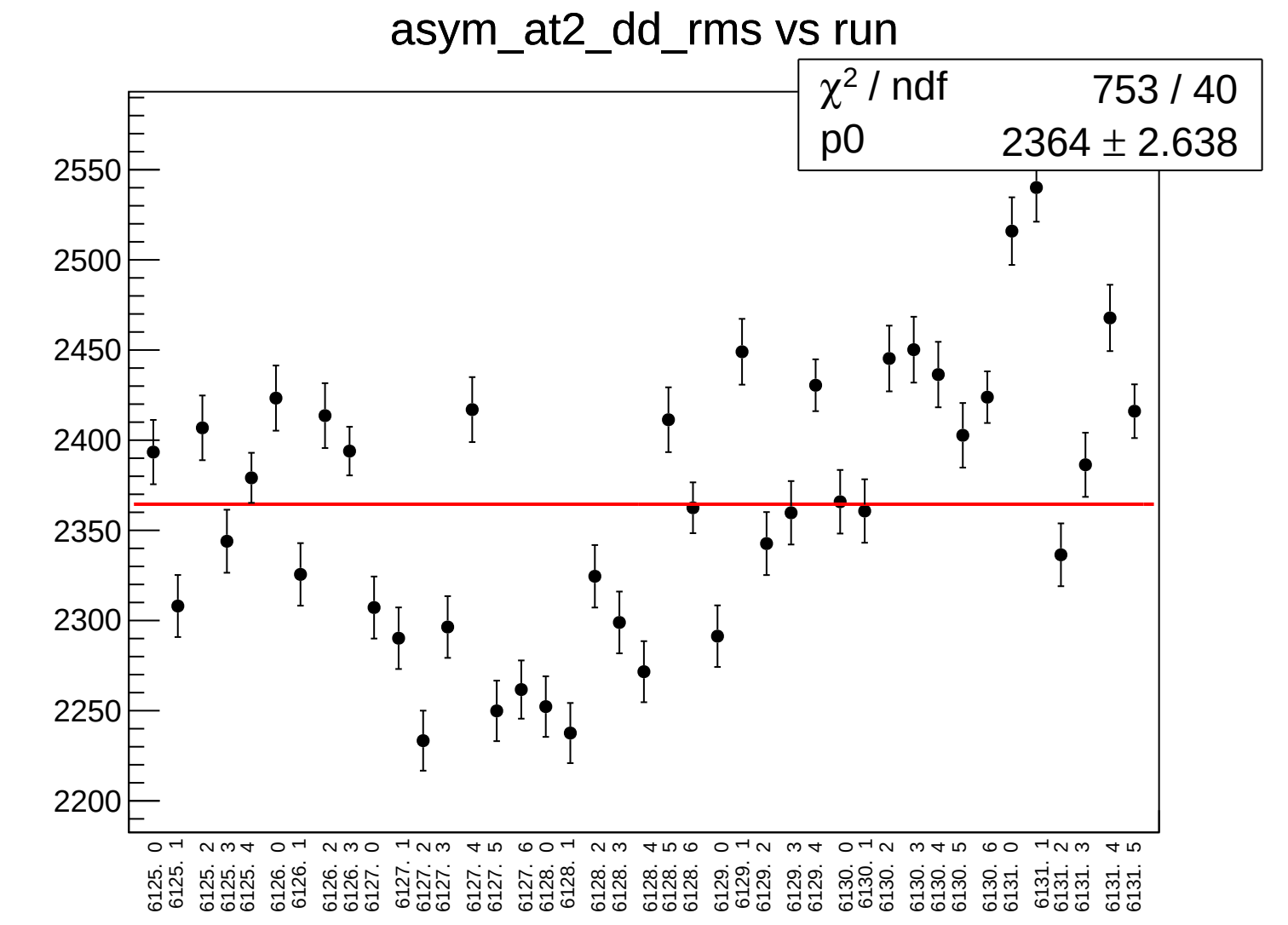

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 25.66 / 40
p0 1811 ± 2762
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 380.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

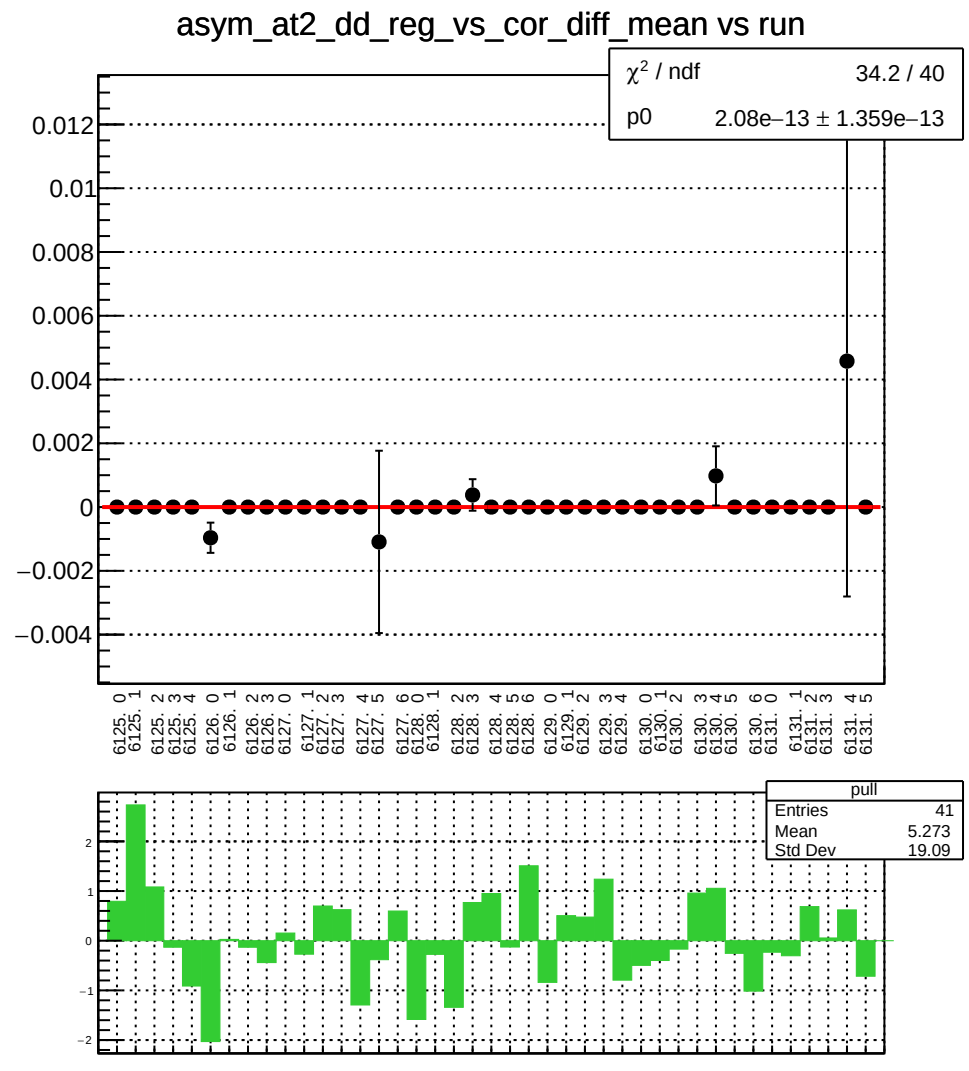

pull1D
Entries 41
Mean −0.004754
Std Dev 0.7912
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

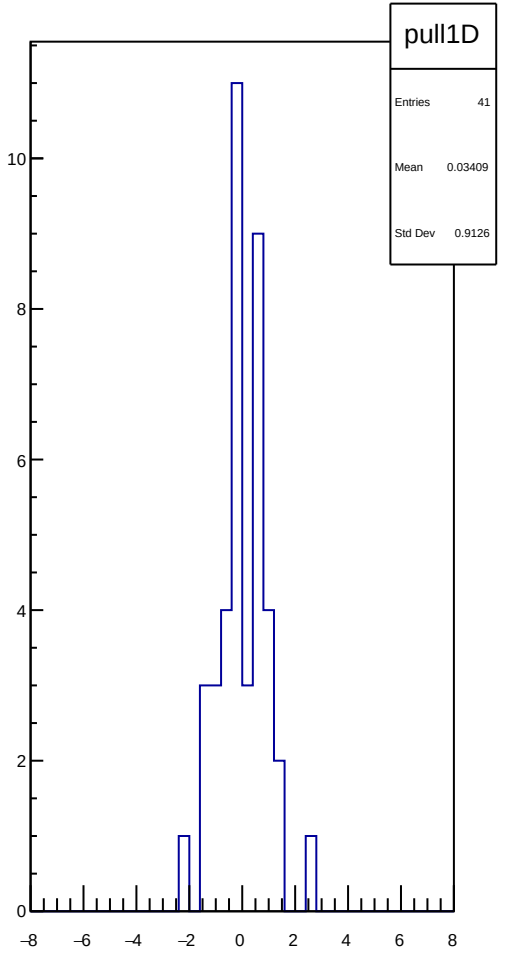

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2340 / 40
p0 1749 ± 1.953
2000
1900
1800
1700
1600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

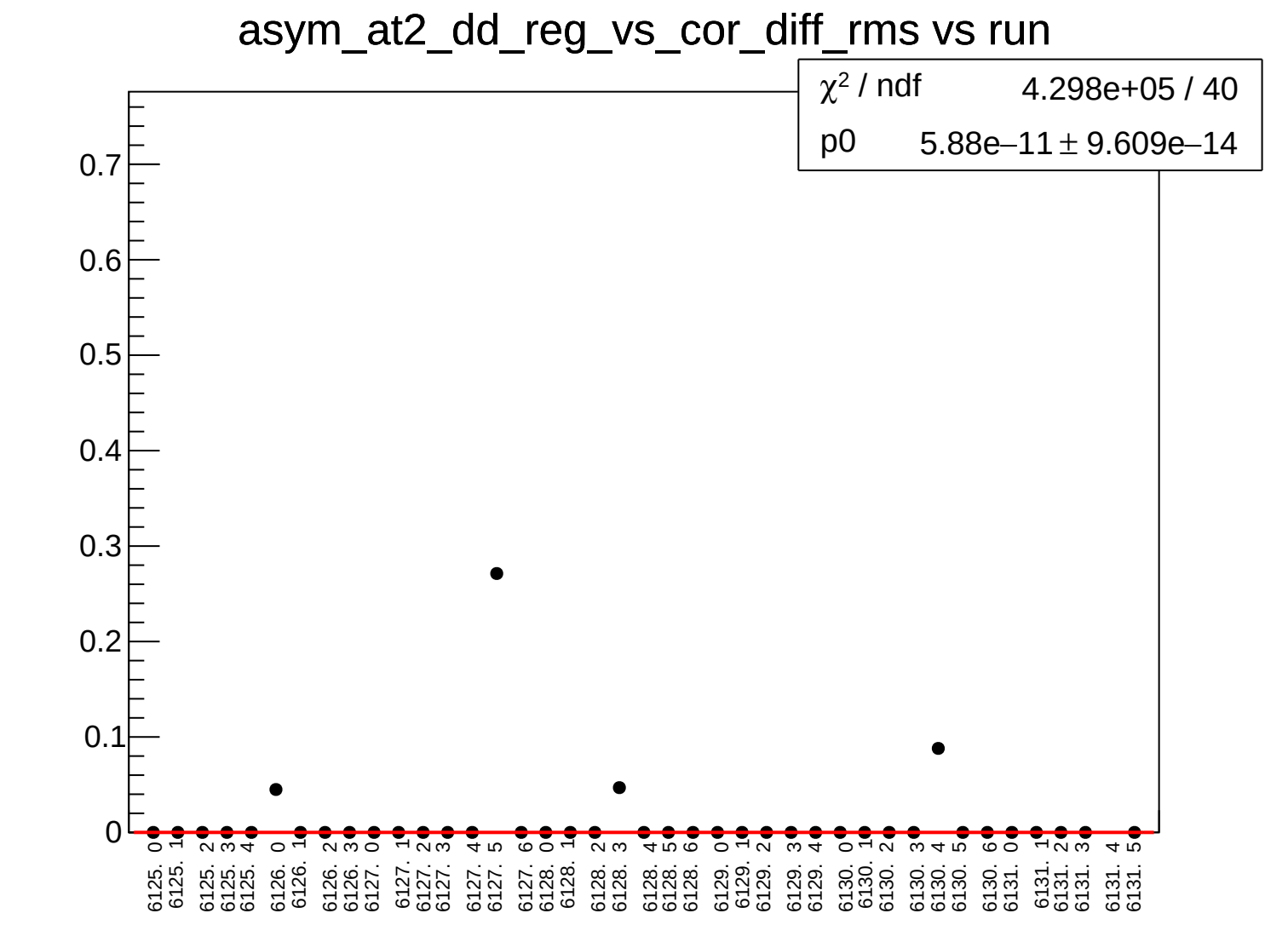

asym_at2_dd_mean vs run
×10^3
χ² / ndf 47.17 / 40
p0 −5372 ± 3730
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −391.3
Std Dev 0
3
2
1
0
−1
−2

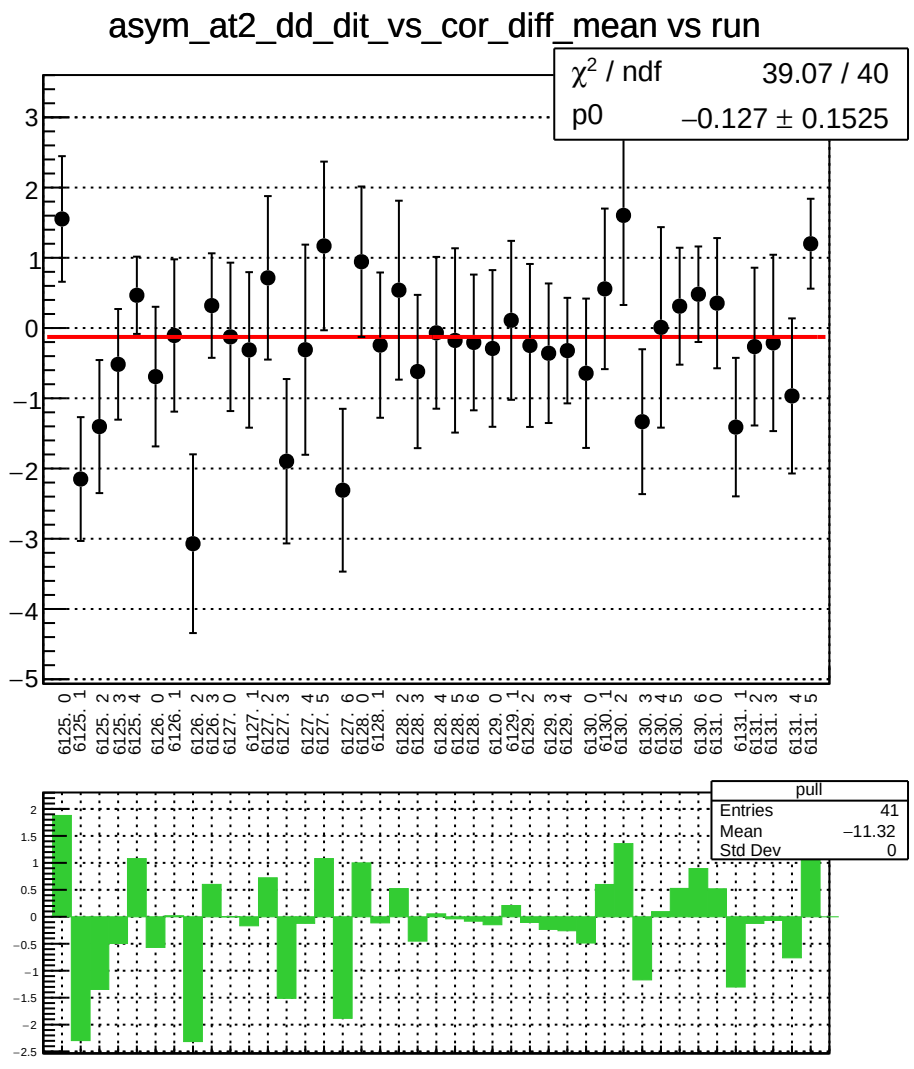

pull1D
Entries 41
Mean −0.005324
Std Dev 1.073
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

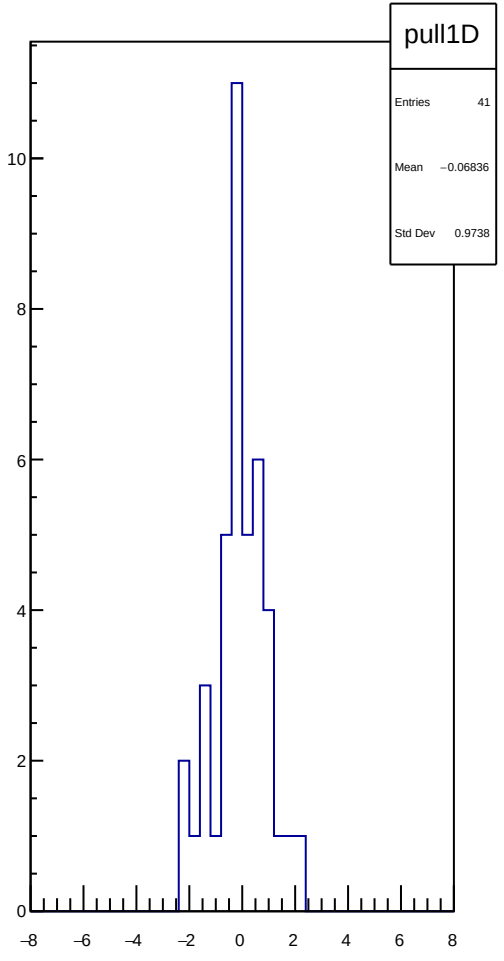

asym_at2_dd_rms vs run
χ² / ndf 753 / 40
p0 2364 ± 2.638
2550
2500
2450
2400
2350
2300
2250
2200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

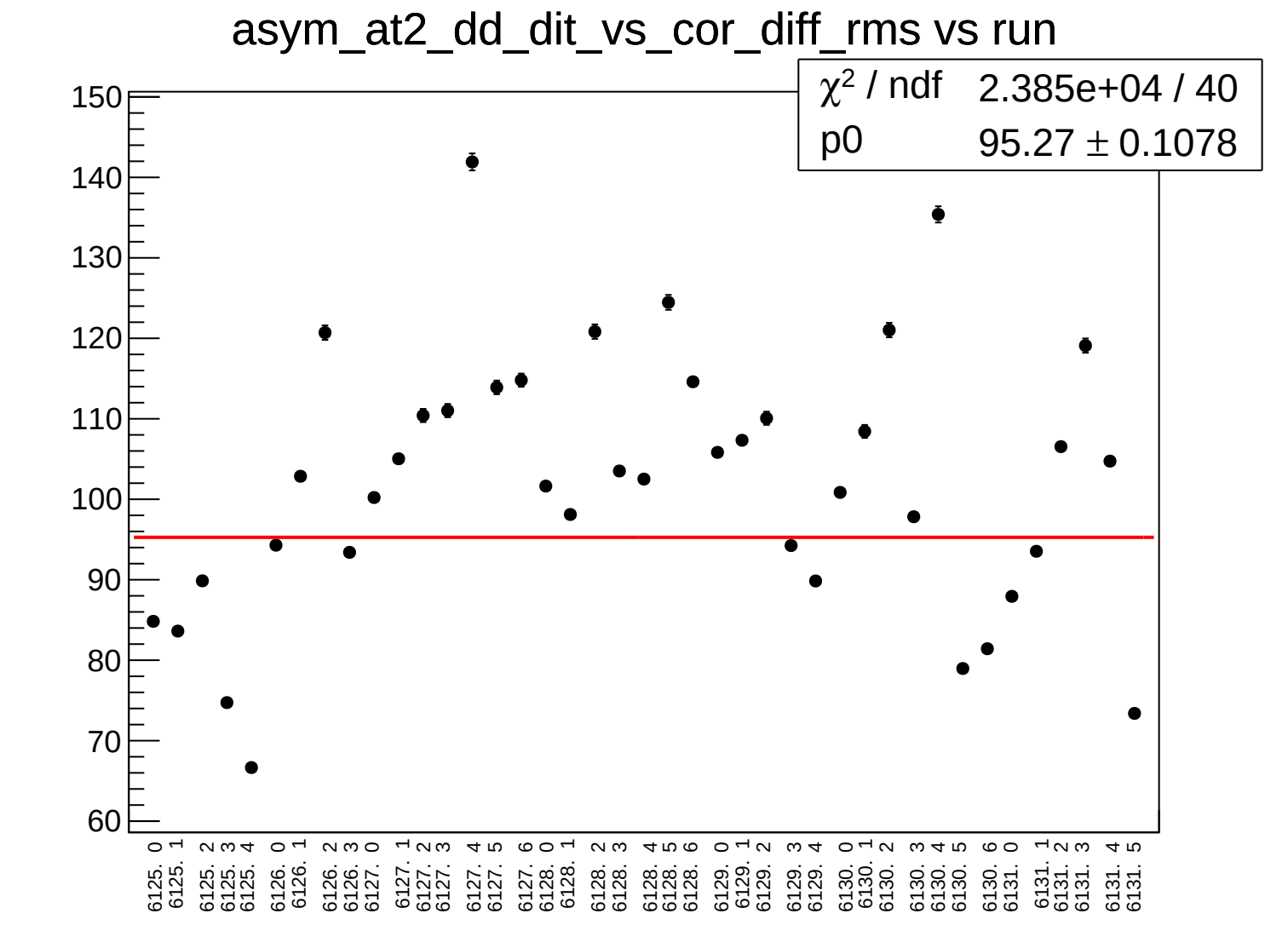

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 34.2 / 40
p0 2.08e−13 ± 1.359e−13
0.012
0.01
0.008
0.006
0.004
0.002
0
−0.002
−0.004
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 5.273
Std Dev 19.09
2
1
0
−1
−2

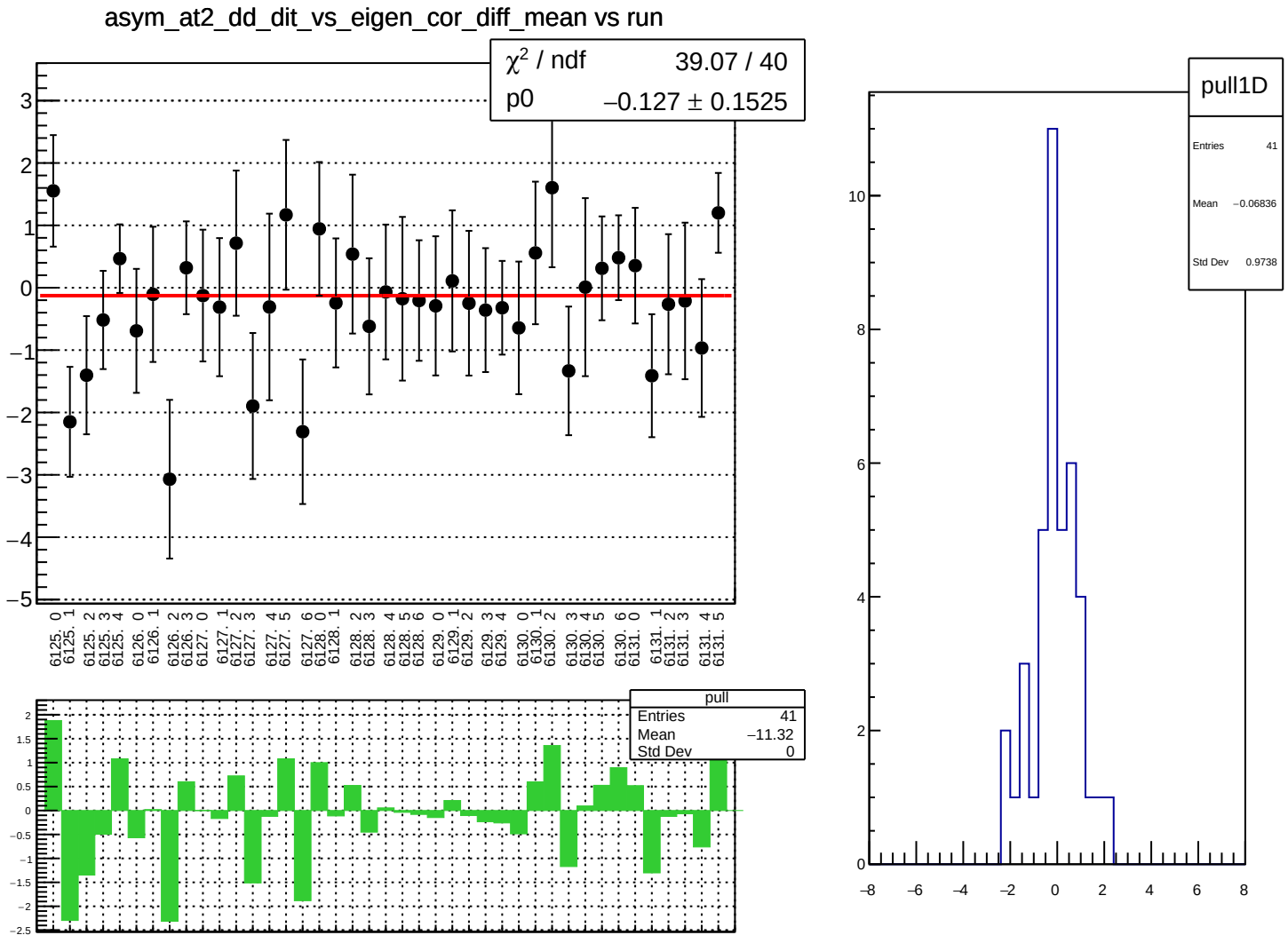

pull1D
Entries 41
Mean 0.03409
Std Dev 0.9126
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

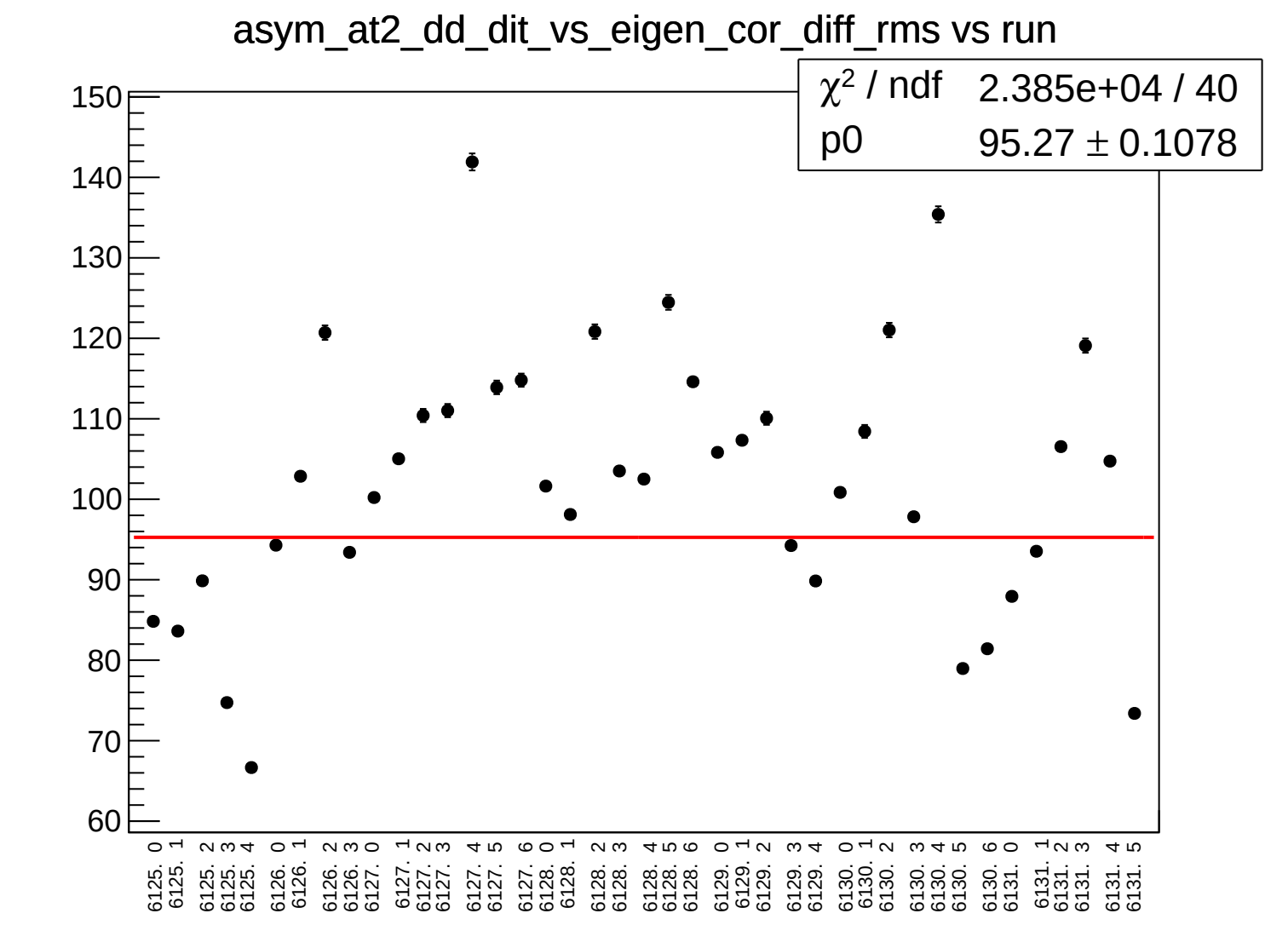

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.298e+05 / 40
p0 5.88e−11 ± 9.609e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

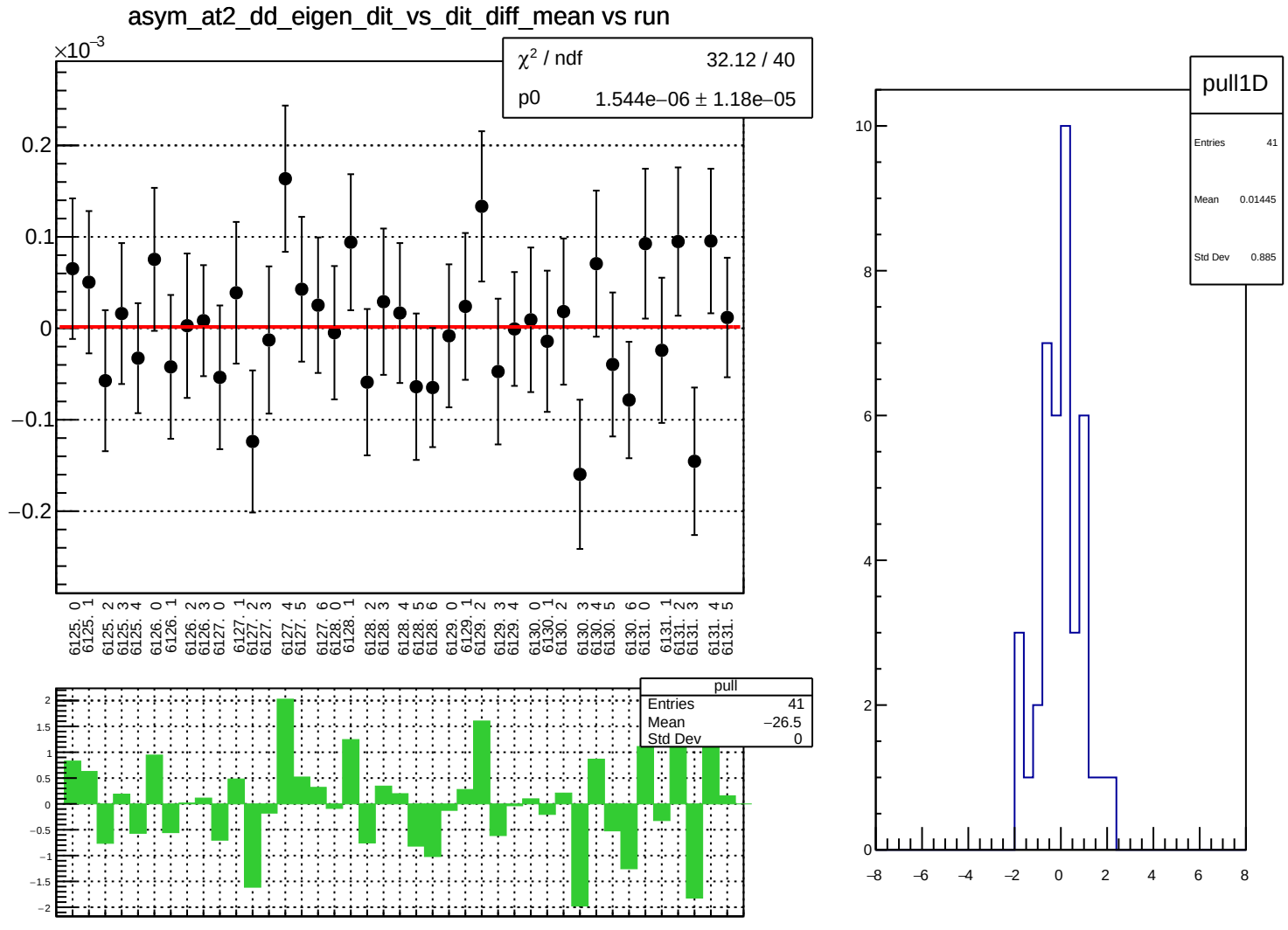

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 39.07 / 40
p0 −0.127 ± 0.1525
pull
Entries 41
Mean −11.32
Std Dev 0

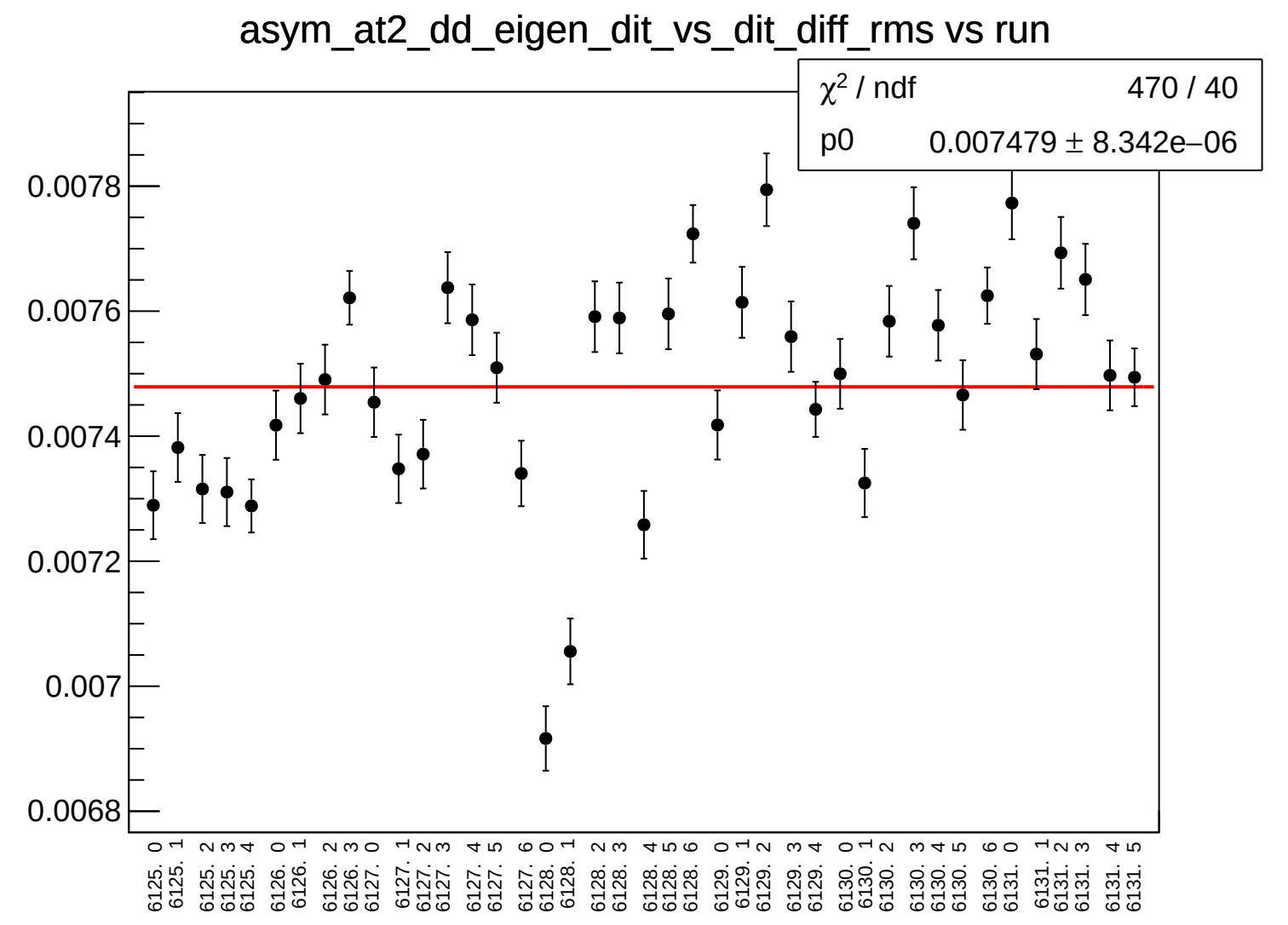

pull1D
Entries 41
Mean −0.06836
Std Dev 0.9738

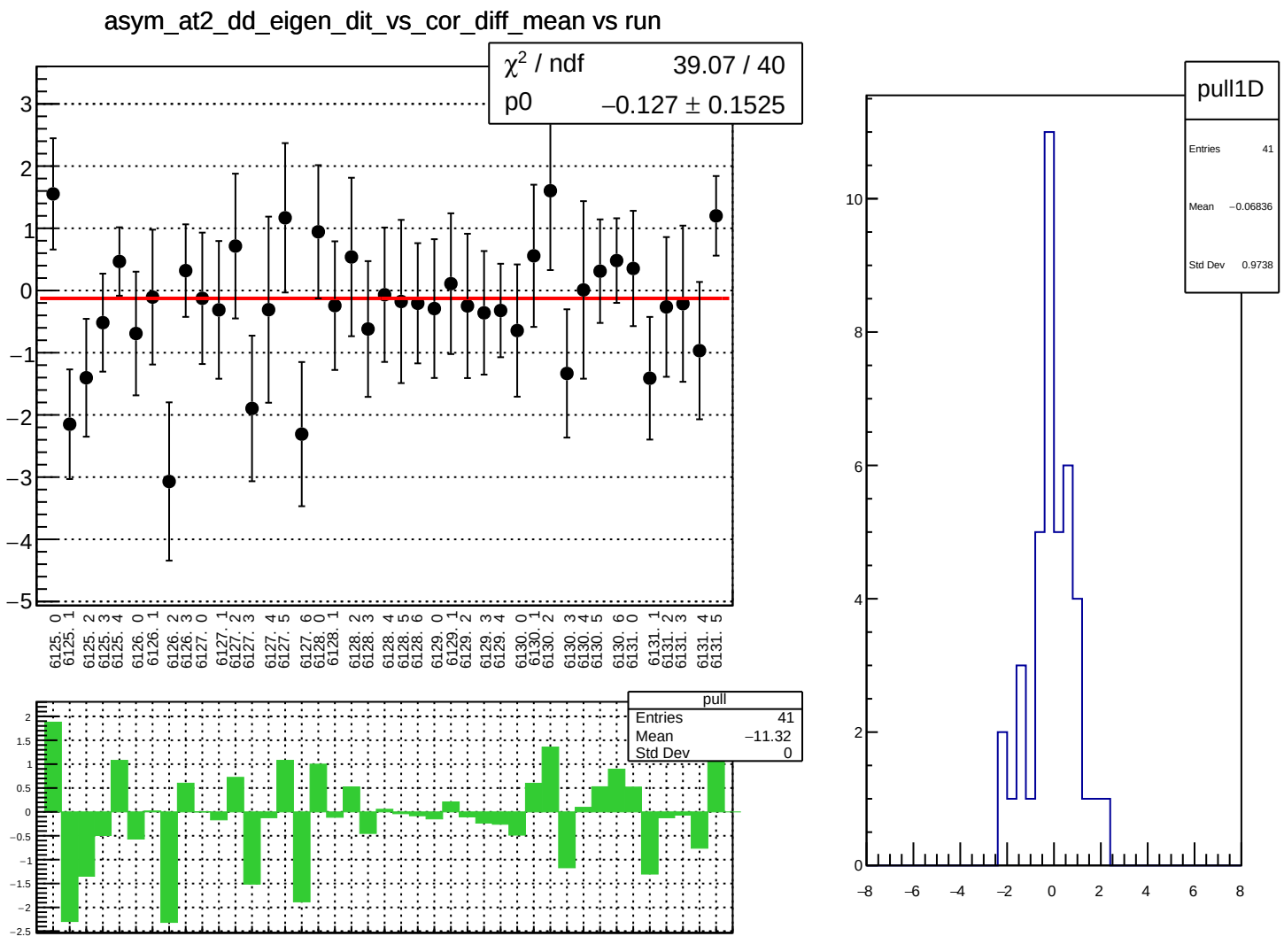

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.385e+04 / 40
p0 95.27 ± 0.1078
150
140
130
120
110
100
90
80
70
60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

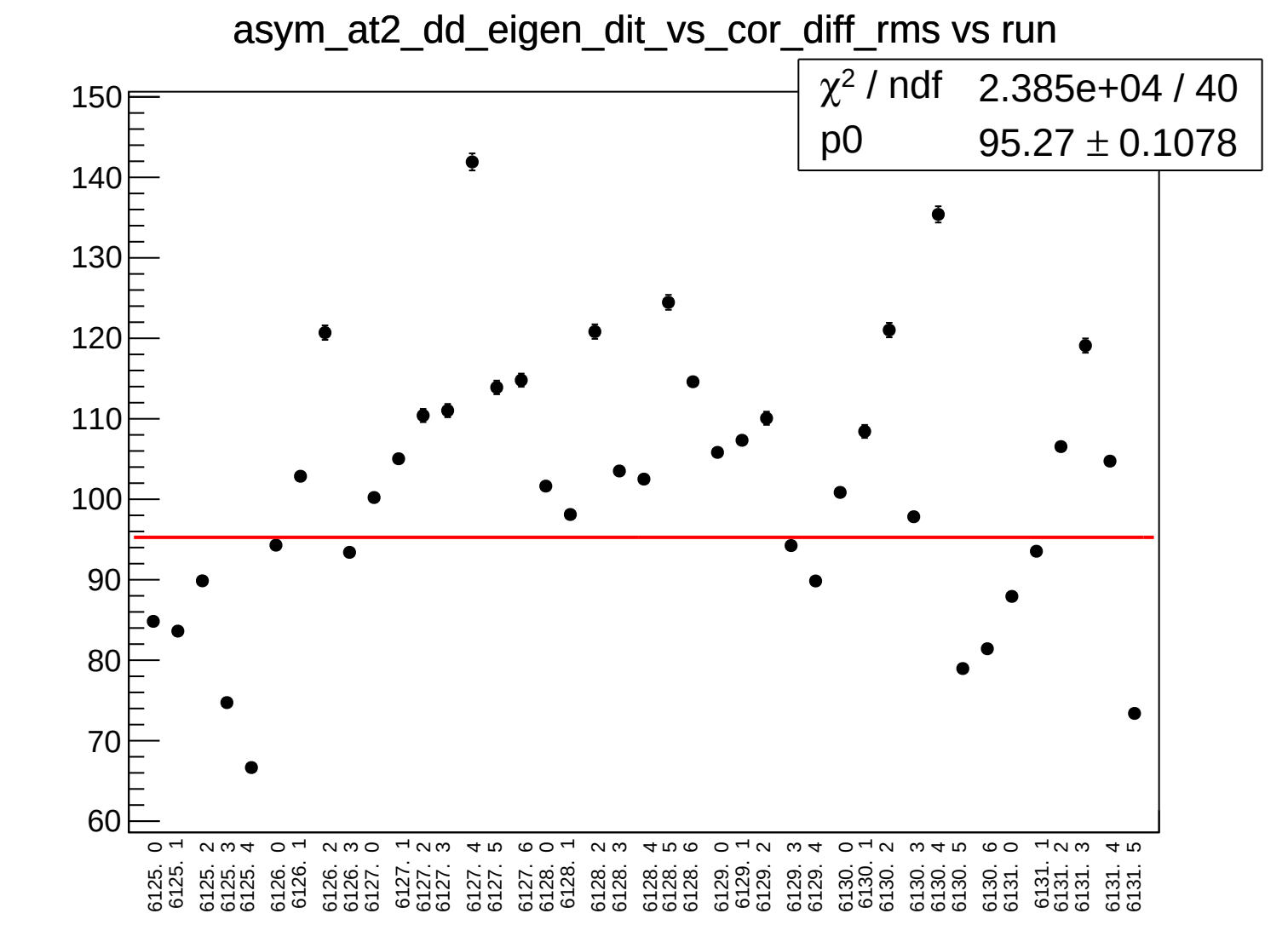

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.07 / 40
p0 −0.127 ± 0.1525
pull
Entries 41
Mean −11.32
Std Dev 0
pull1D
Entries 41
Mean −0.06836
Std Dev 0.9738

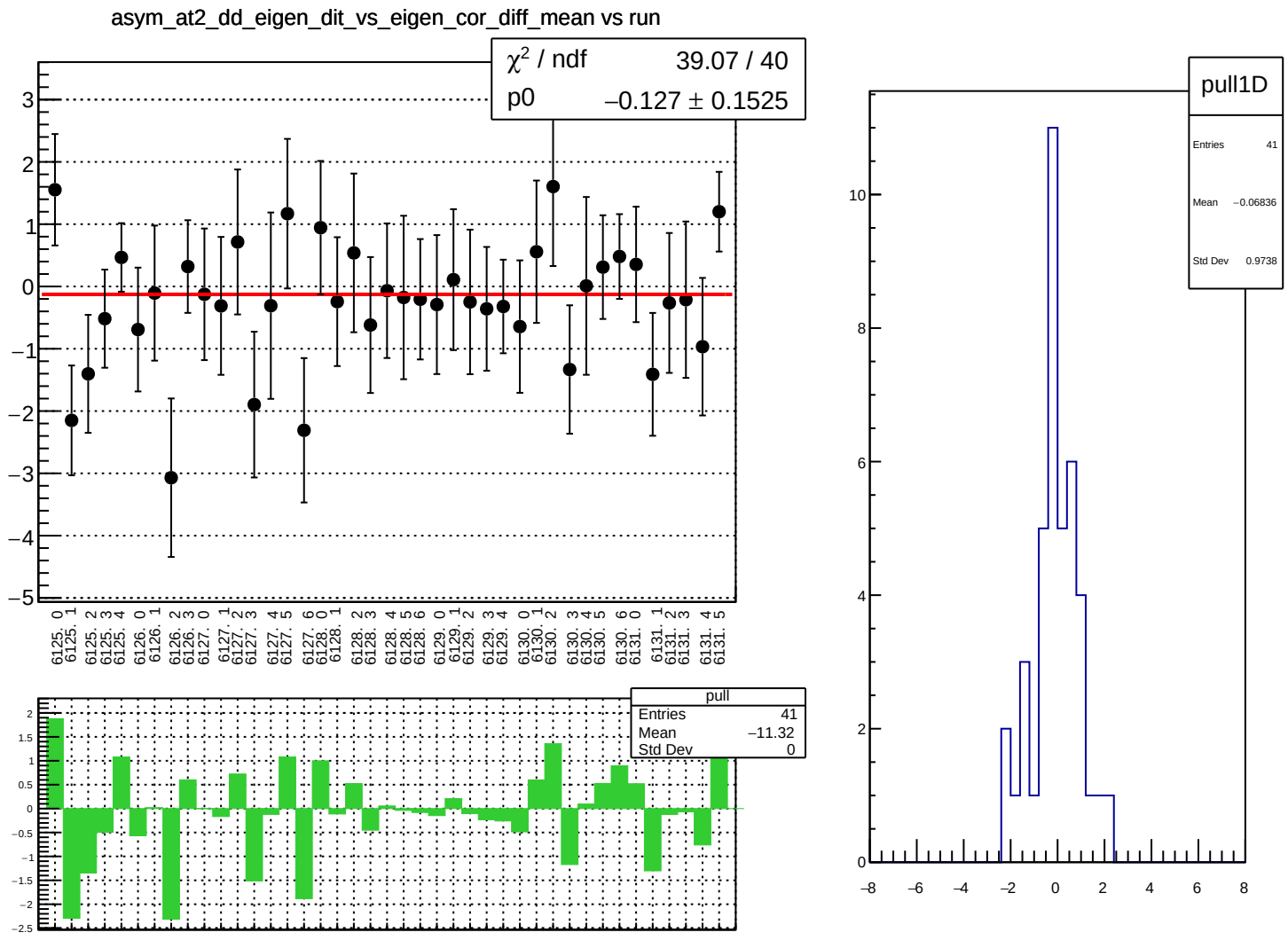

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.385e+04 / 40
p0 95.27 ± 0.1078
150
140
130
120
110
100
90
80
70
60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

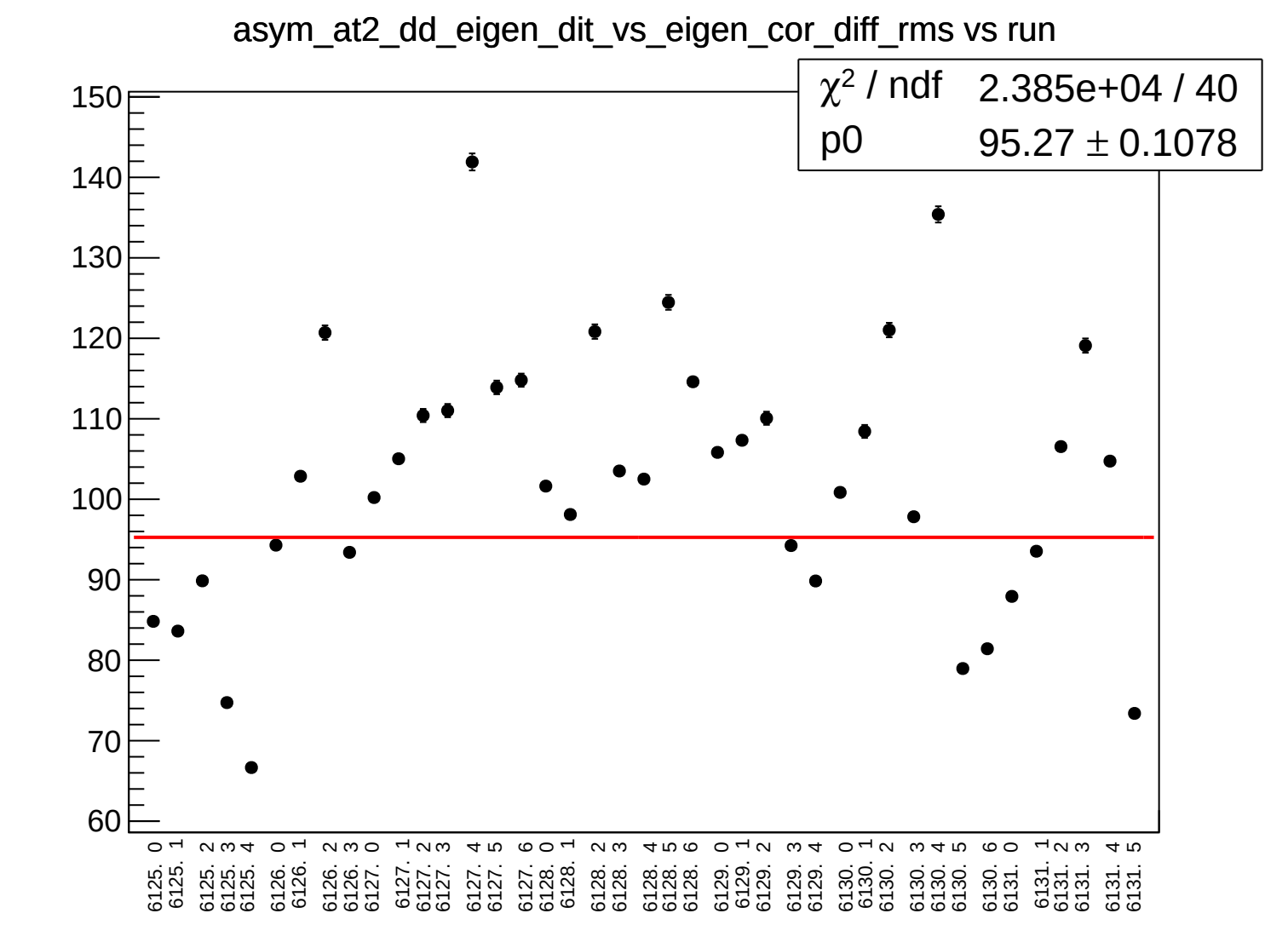

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 32.12 / 40
p0 1.544e−06 ± 1.18e−05
0.2
0.1
0
−0.1
−0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −26.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.01445
Std Dev 0.885
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

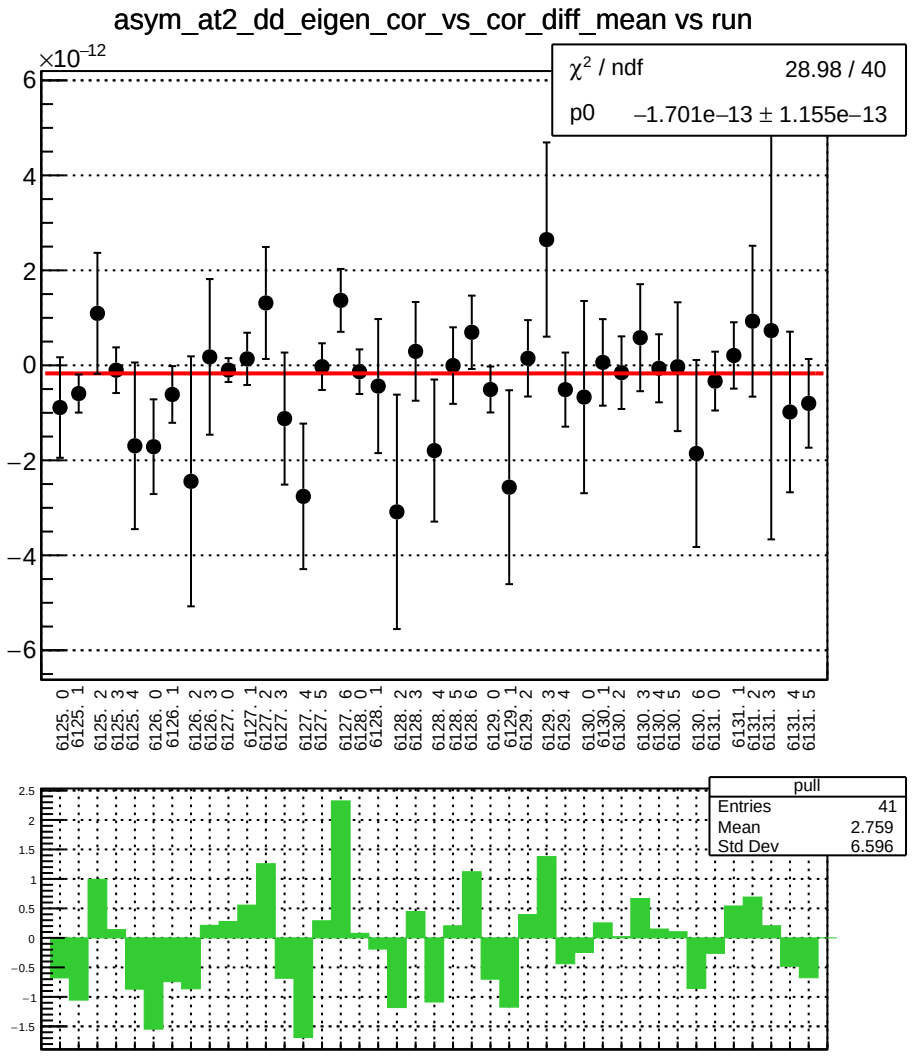

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 470 / 40
p0 0.007479 ± 8.342e−06
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

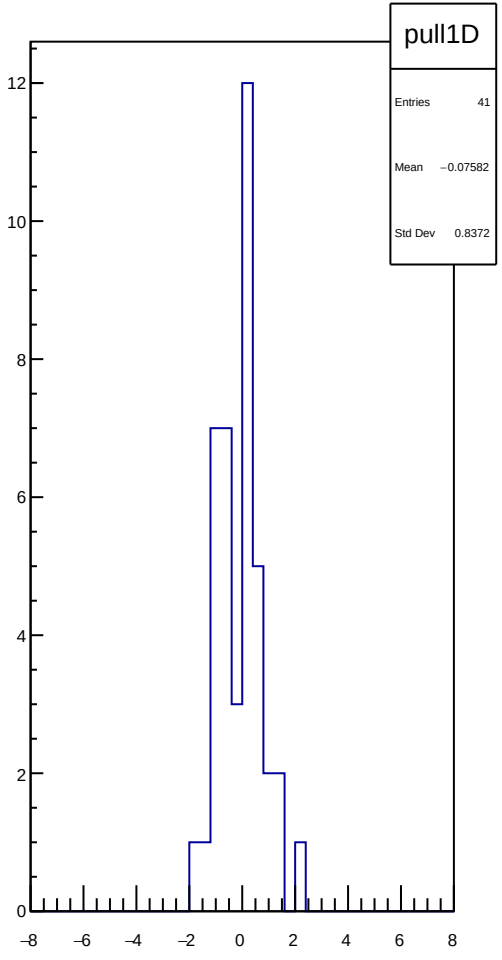

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 39.07 / 40
p0 −0.127 ± 0.1525
pull
Entries 41
Mean −11.32
Std Dev 0
pull1D
Entries 41
Mean −0.06836
Std Dev 0.9738

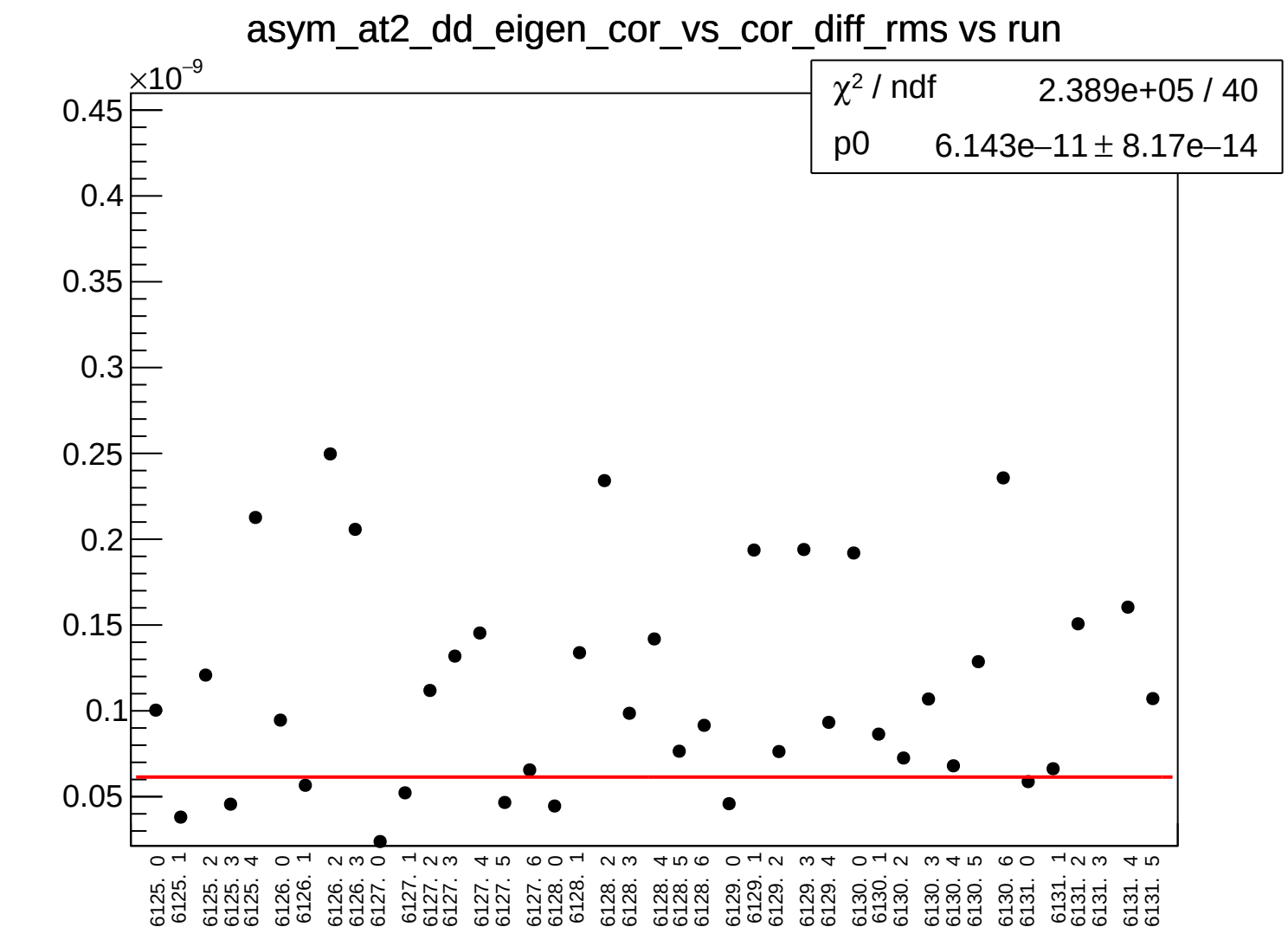

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.385e+04 / 40
p0 95.27 ± 0.1078
150
140
130
120
110
100
90
80
70
60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

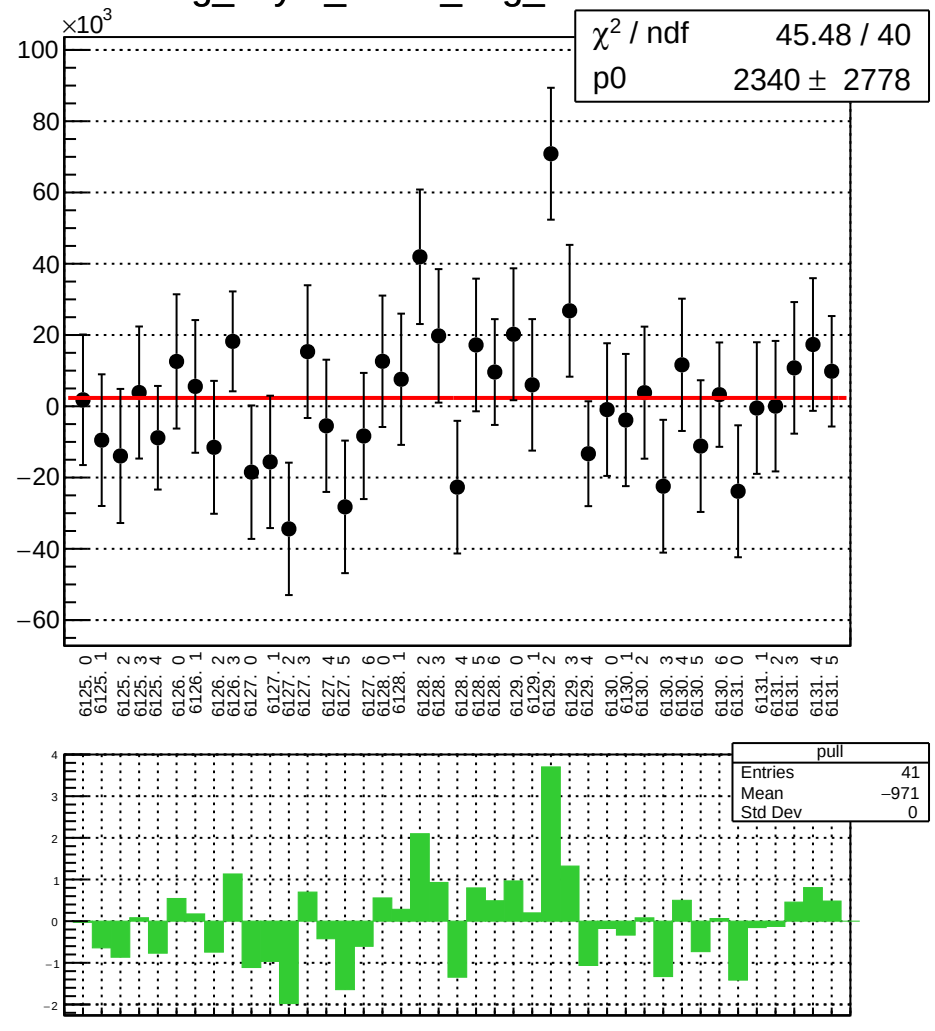

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.07 / 40
p0 −0.127 ± 0.1525
pull
Entries 41
Mean −11.32
Std Dev 0
pull1D
Entries 41
Mean −0.06836
Std Dev 0.9738

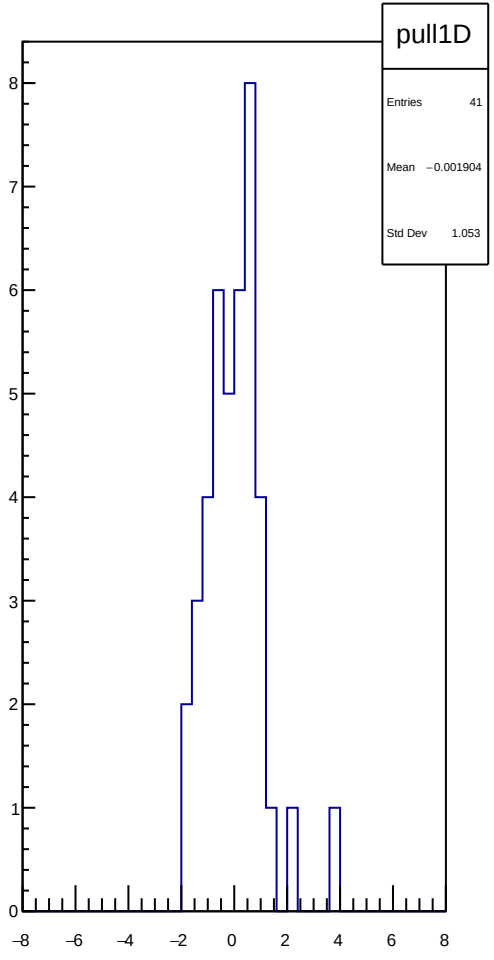

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.385e+04 / 40
p0 95.27 ± 0.1078
150
140
130
120
110
100
90
80
70
60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

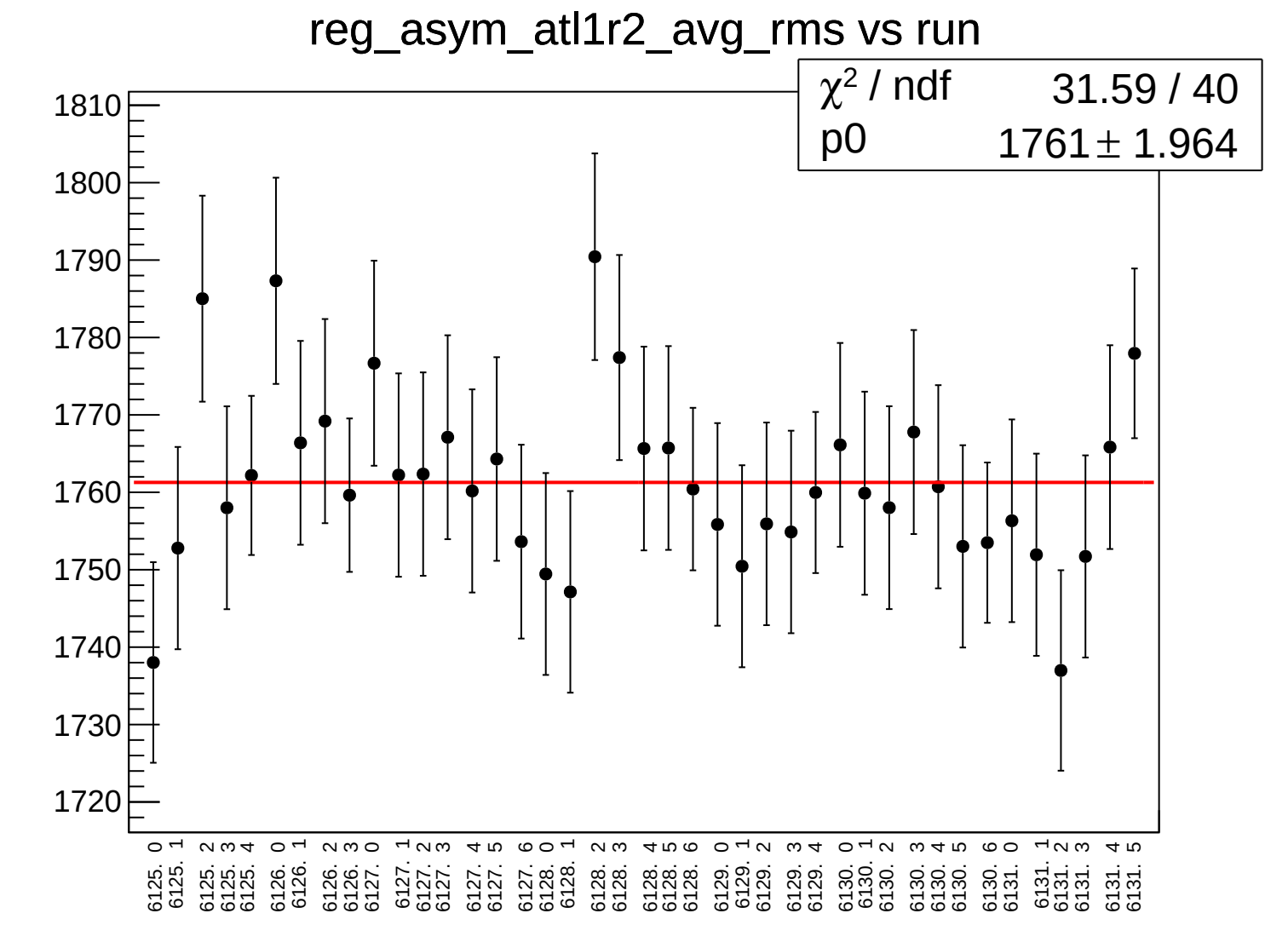

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 28.98 / 40
p0 −1.701e−13 ± 1.155e−13
6
4
2
0
−2
−4
−6
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 2.759
Std Dev 6.596
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

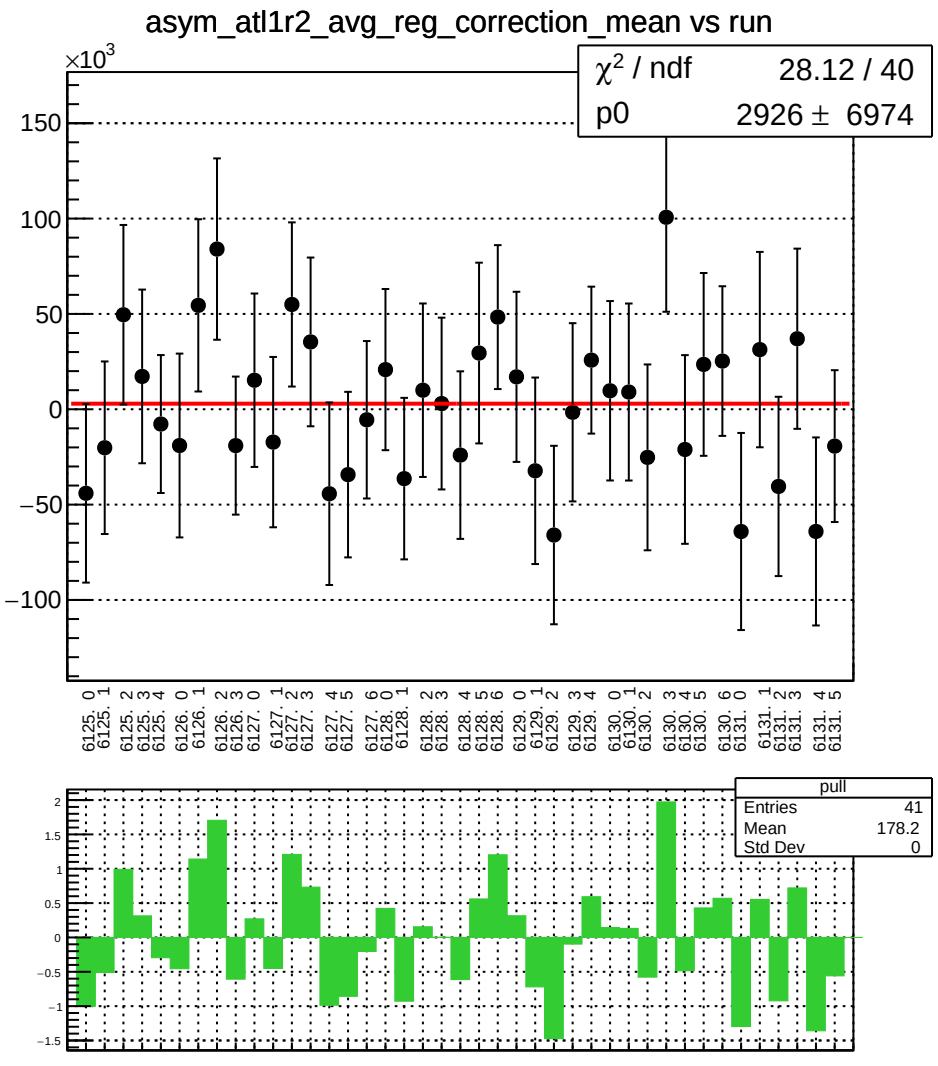

pull1D
Entries 41
Mean −0.07582
Std Dev 0.8372
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

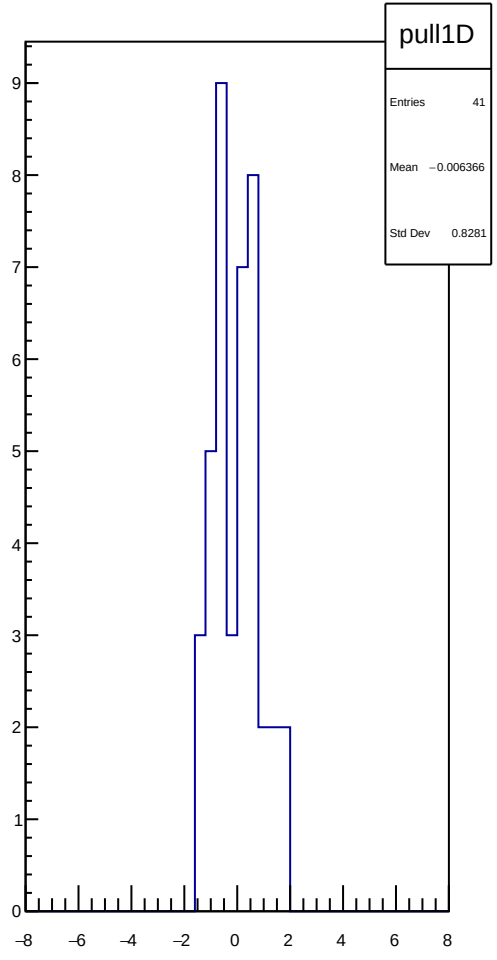

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.389e+05 / 40
p0 6.143e−11 ± 8.17e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

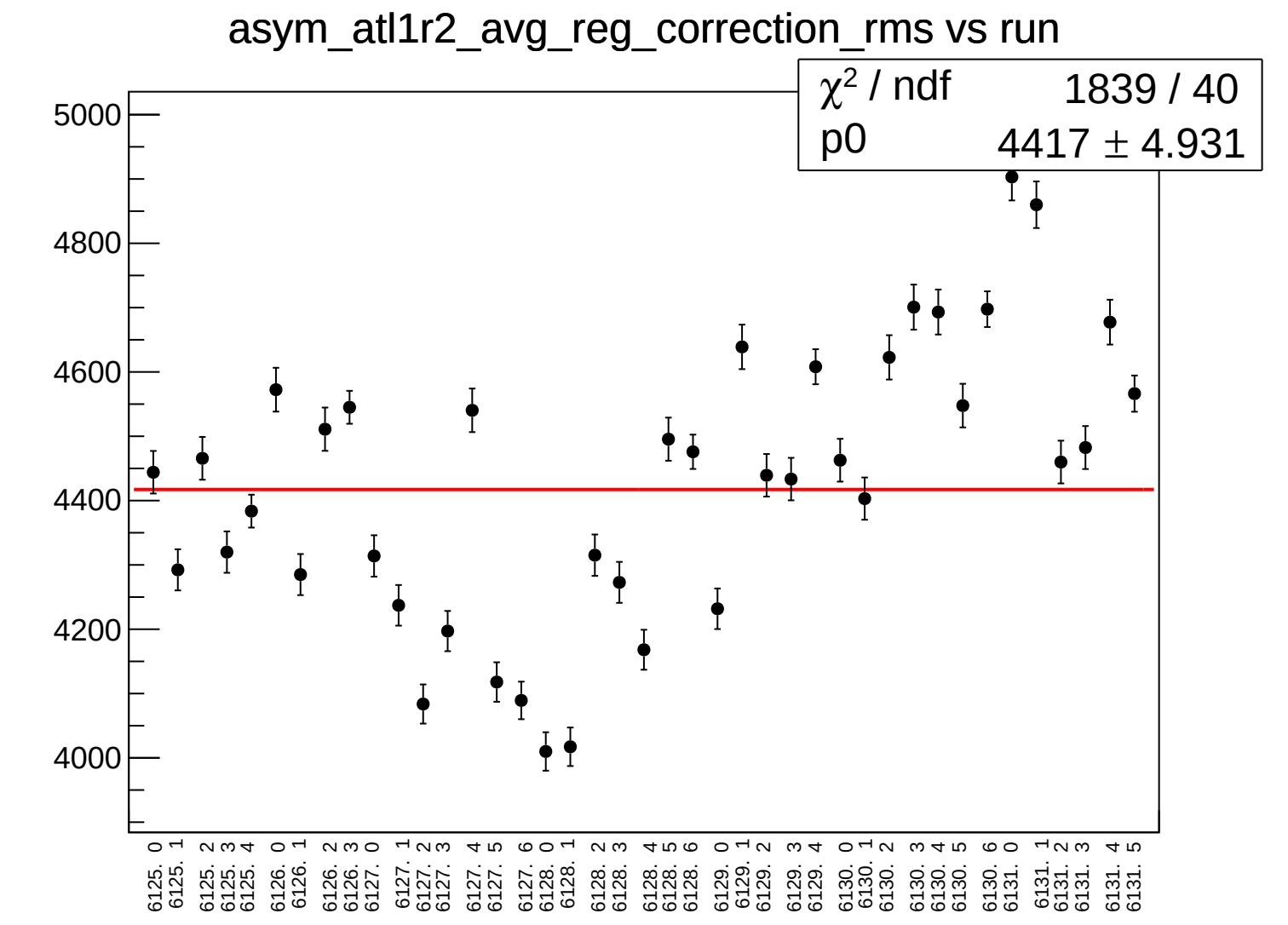

reg_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 45.48 / 40
p0 2340 ± 2778
pull
Entries 41
Mean −971
Std Dev 0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

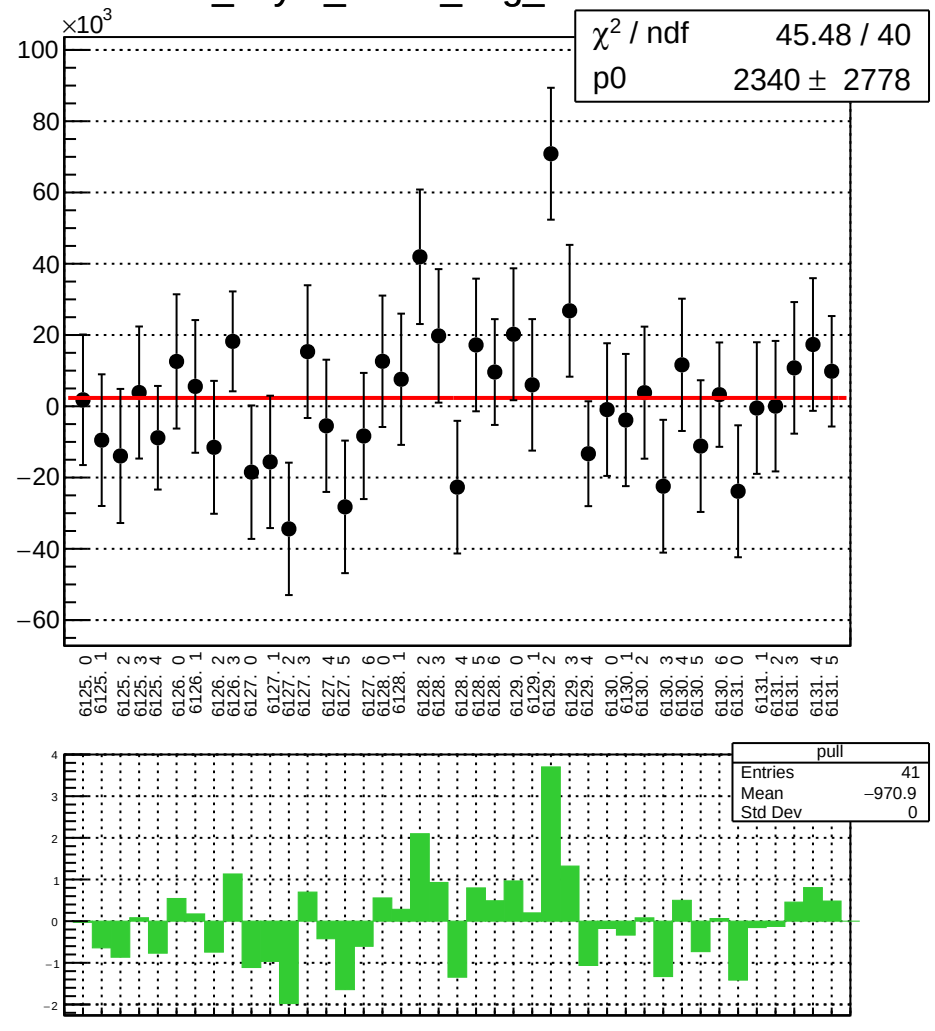

pull1D
Entries 41
Mean −0.001904
Std Dev 1.053

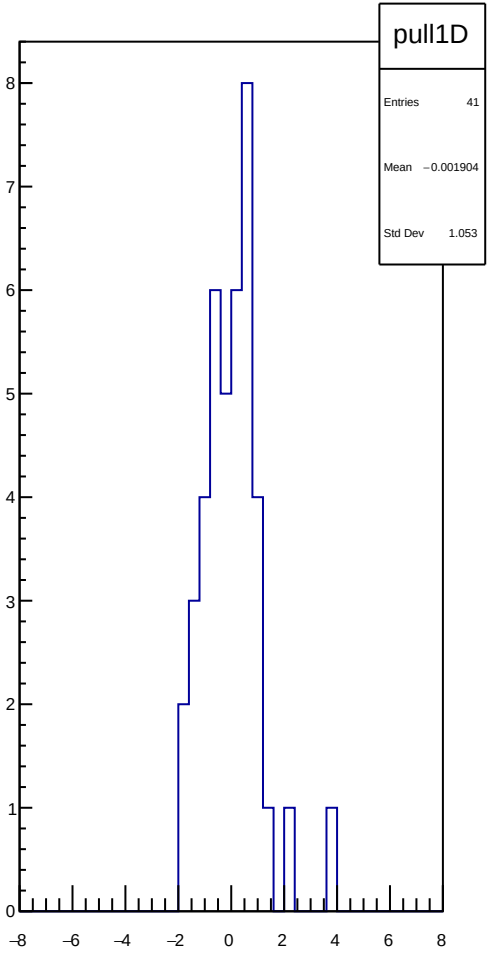

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 31.59 / 40
p0 1761 ± 1.964
1810
1800
1790
1780
1770
1760
1750
1740
1730
1720
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

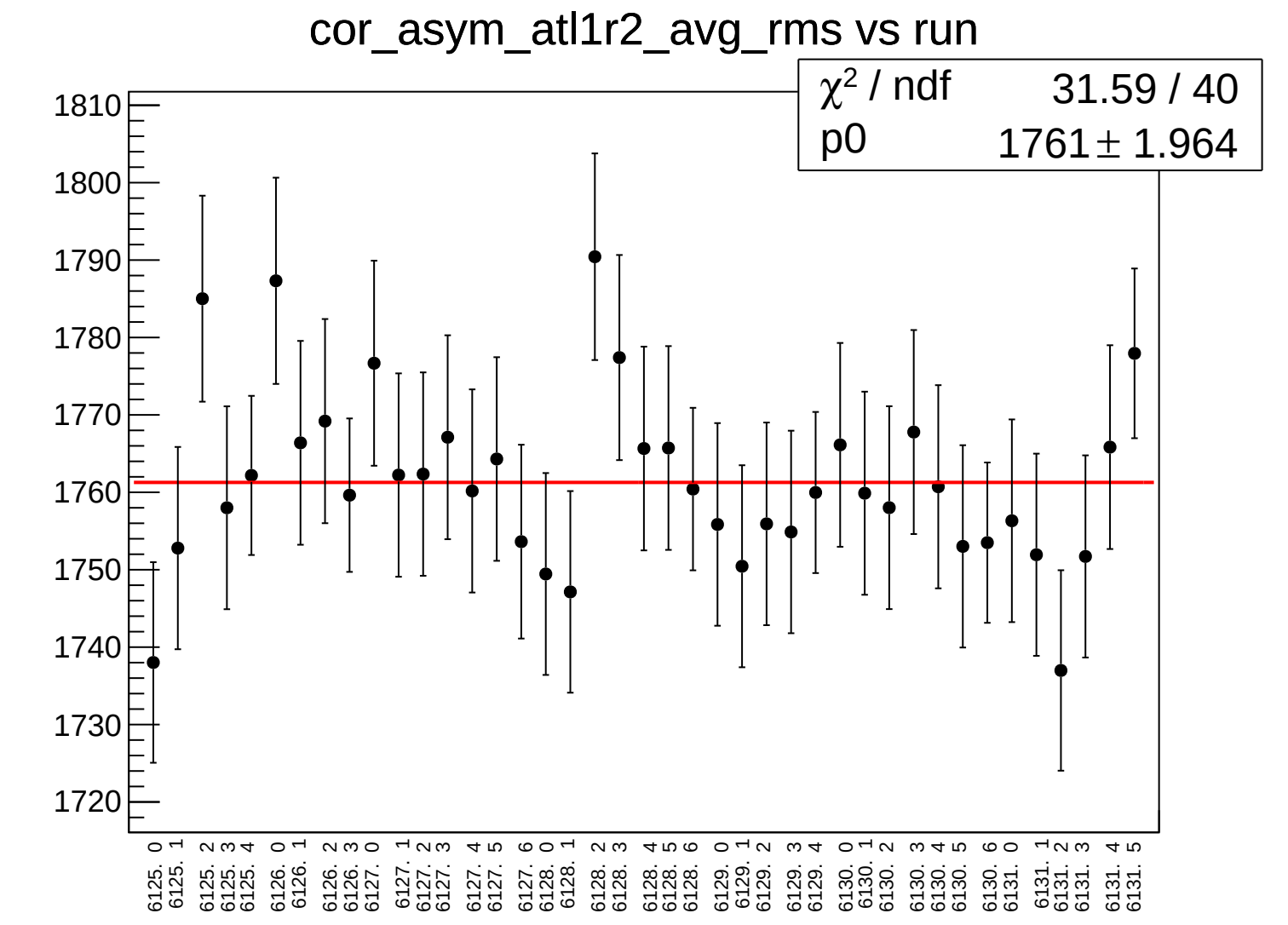

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 28.12 / 40
p0 2926 ± 6974
150
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 178.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

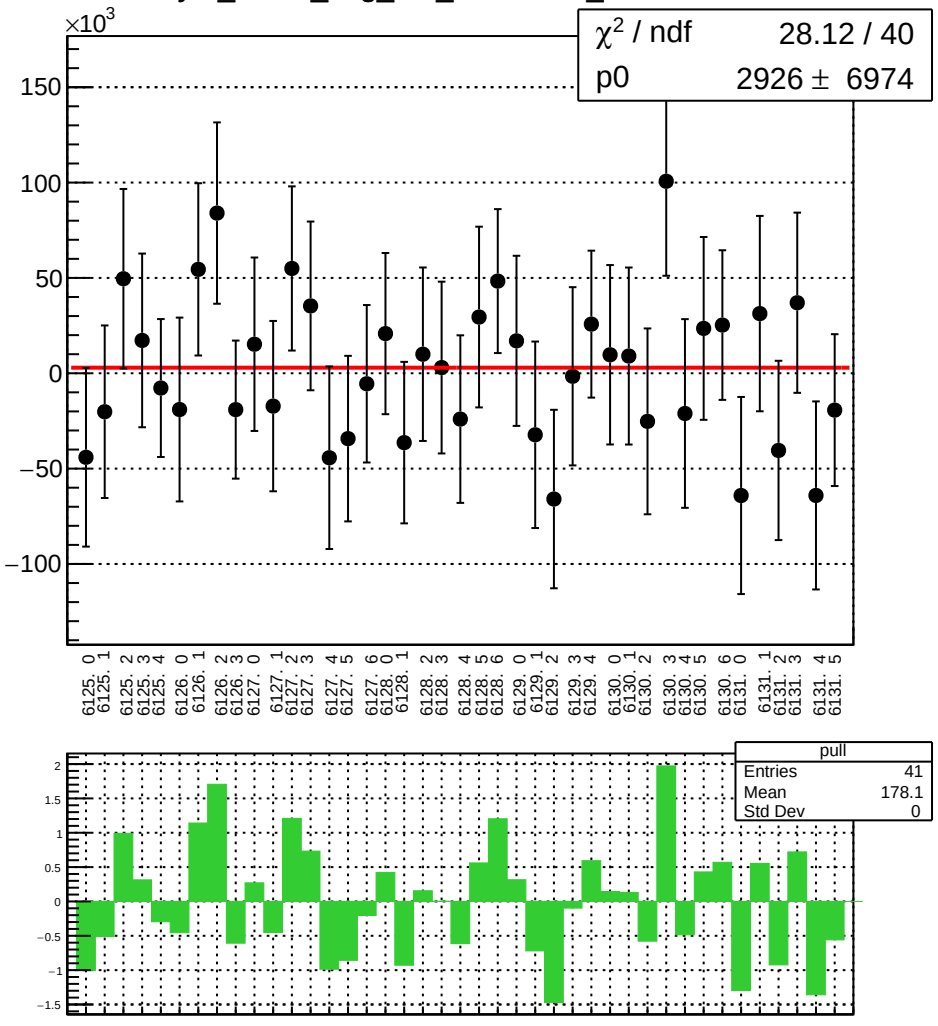

pull1D
Entries 41
Mean −0.006366
Std Dev 0.8281
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

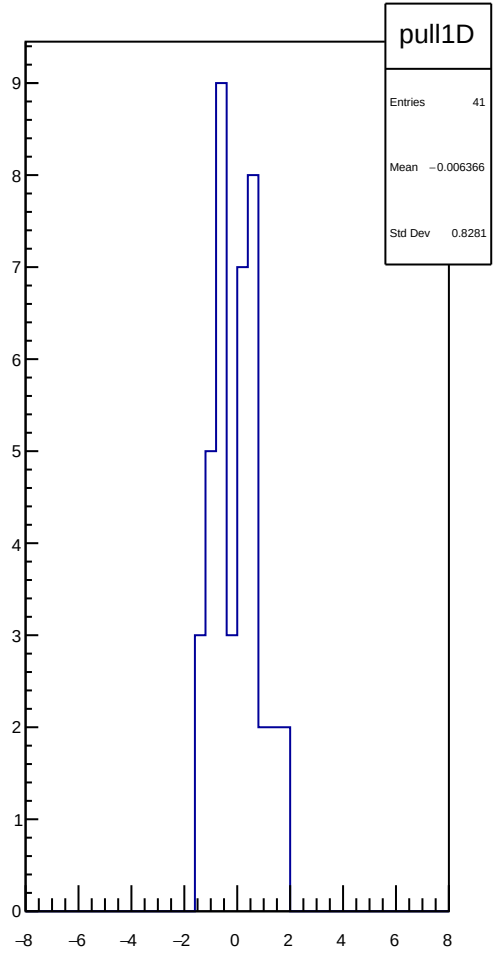

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 1839 / 40
p0 4417 ± 4.931
5000
4800
4600
4400
4200
4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

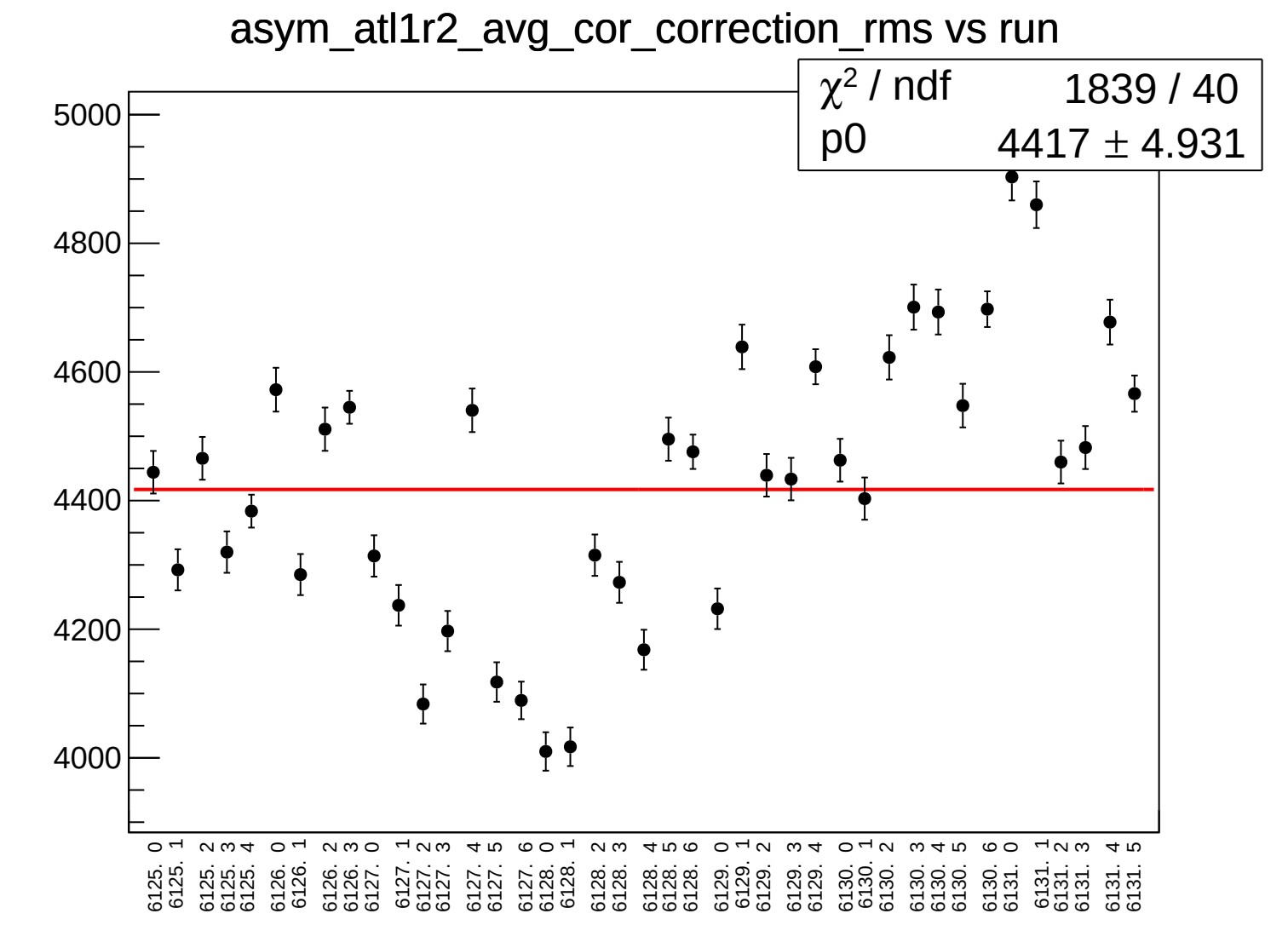

cor_asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 45.48 / 40
p0 2340 ± 2778
pull
Entries 41
Mean −970.9
Std Dev 0

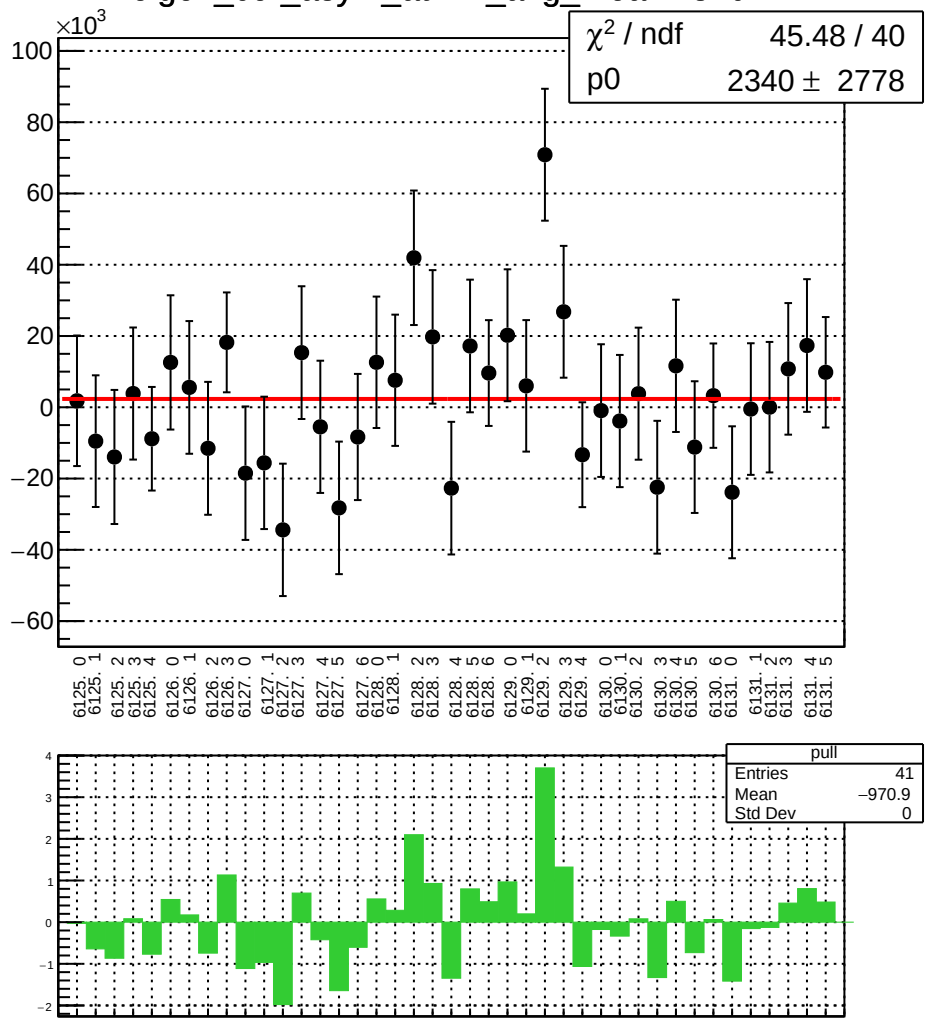

pull1D
Entries 41
Mean −0.001904
Std Dev 1.053

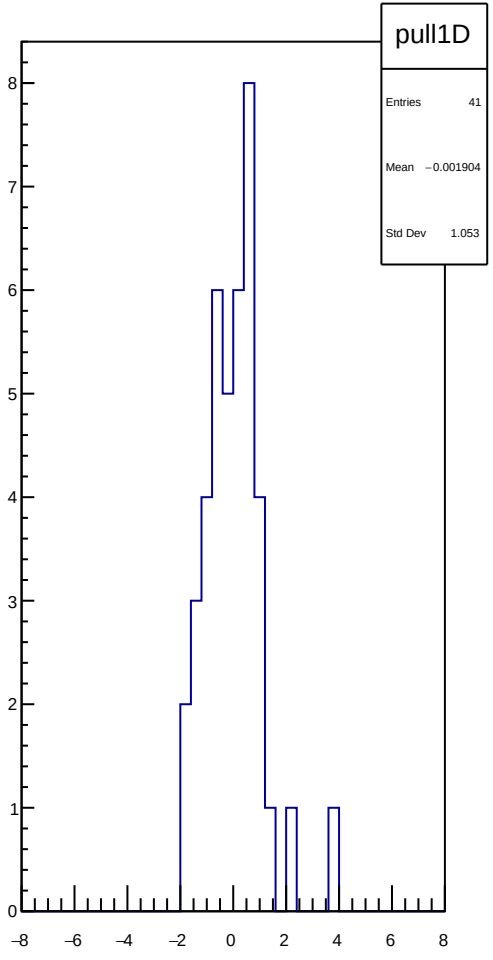

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 31.59 / 40
p0 1761 ± 1.964
1810
1800
1790
1780
1770
1760
1750
1740
1730
1720
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

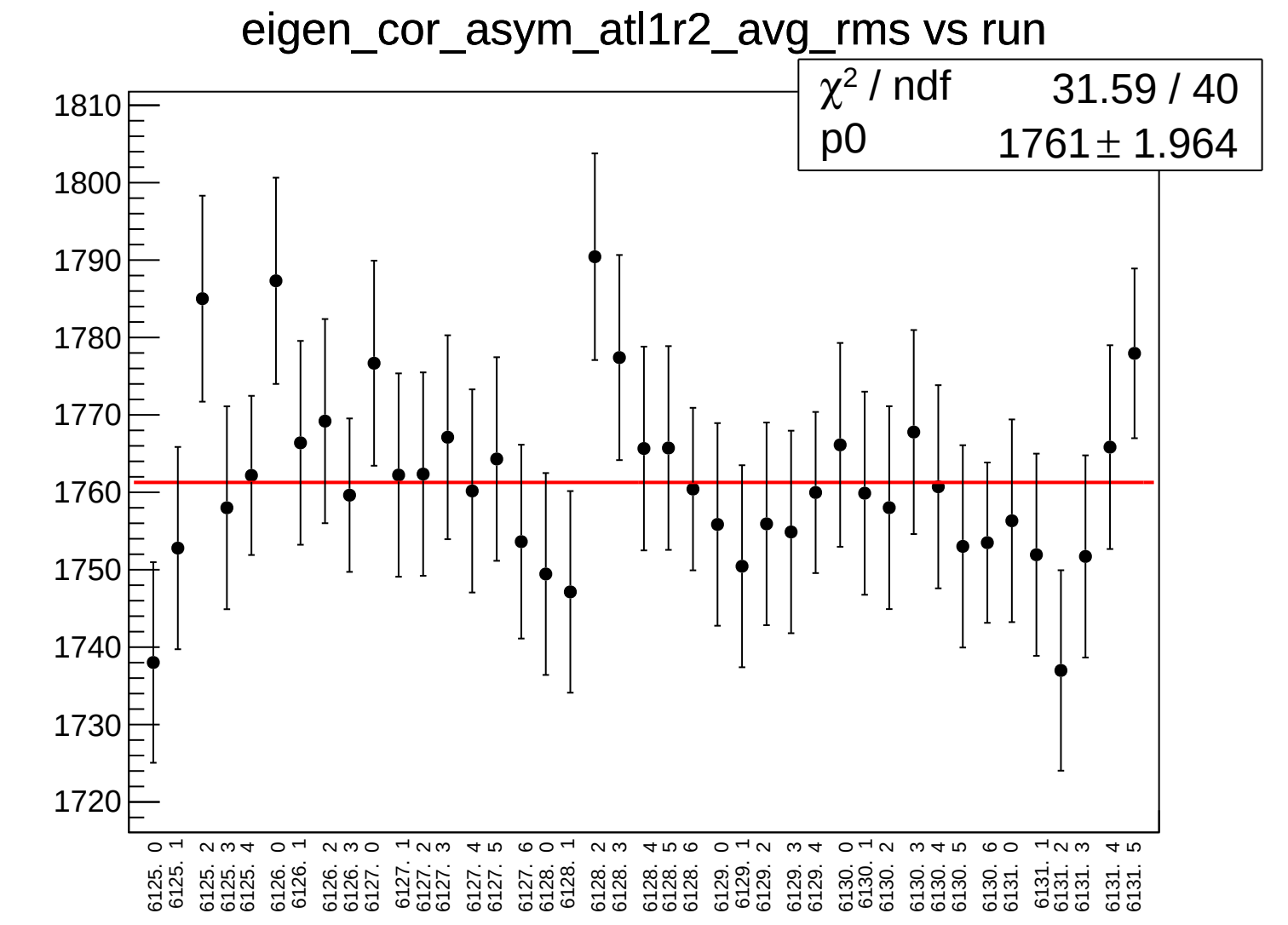

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 28.12 / 40
p0 2926 ± 6974
150
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 178.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

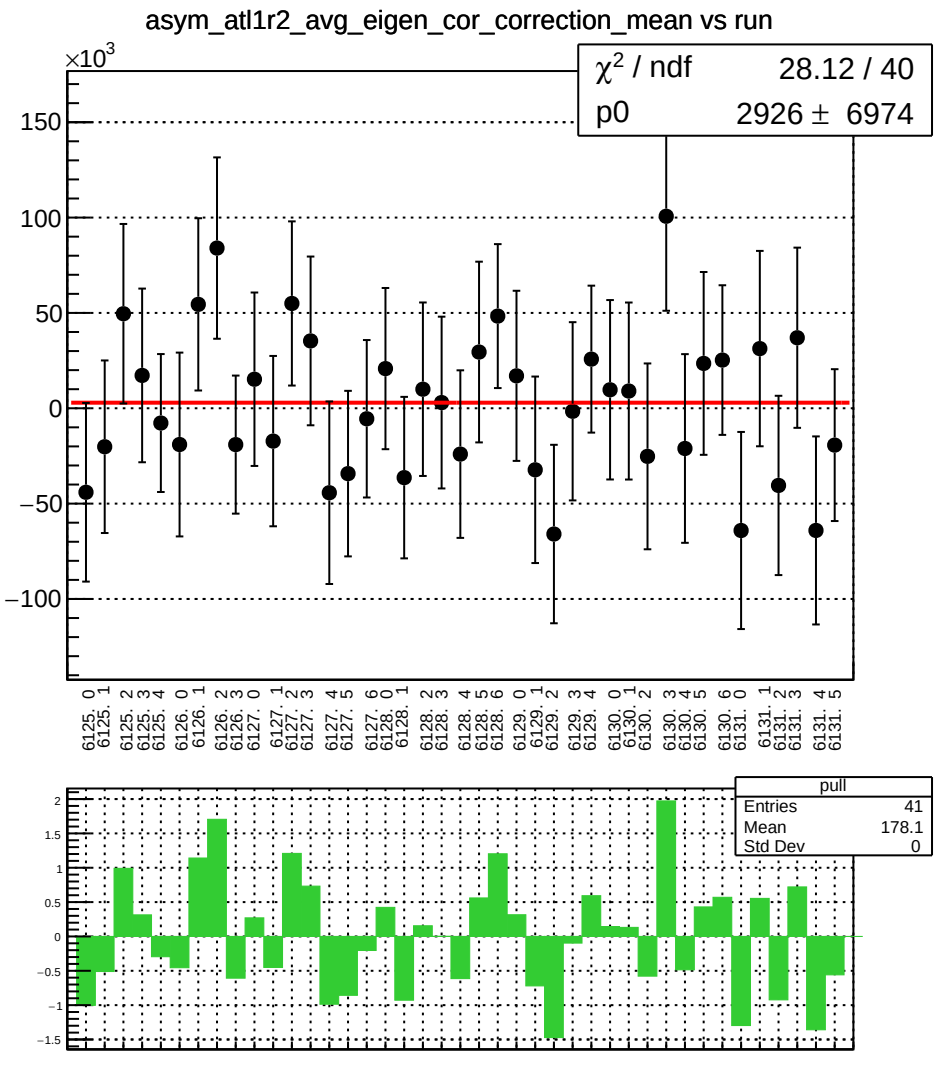

pull1D
Entries 41
Mean −0.006366
Std Dev 0.8281
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

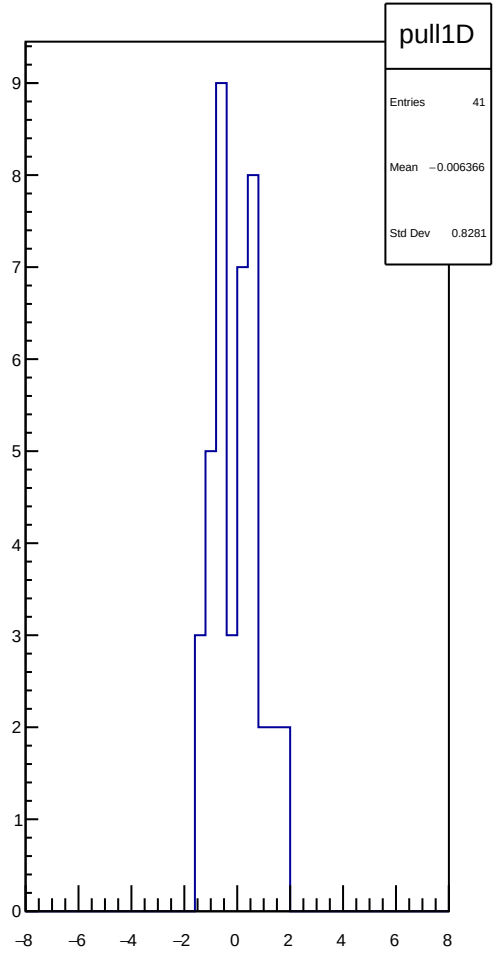

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 1839 / 40
p0 4417 ± 4.931
5000
4800
4600
4400
4200
4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

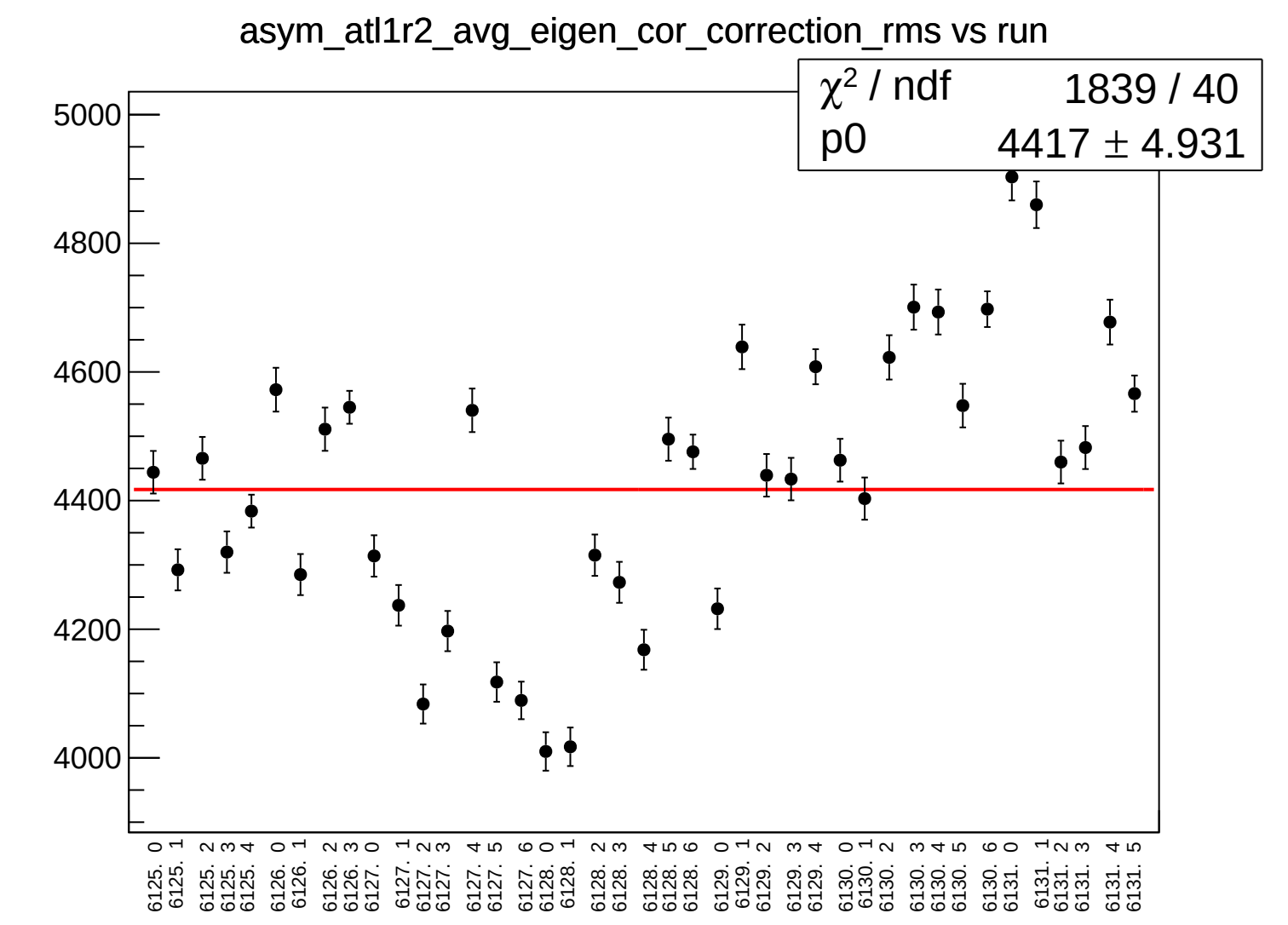

eigen_cor_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 45.48 / 40
p0 2340 ± 2778
pull
Entries 41
Mean −970.9
Std Dev 0

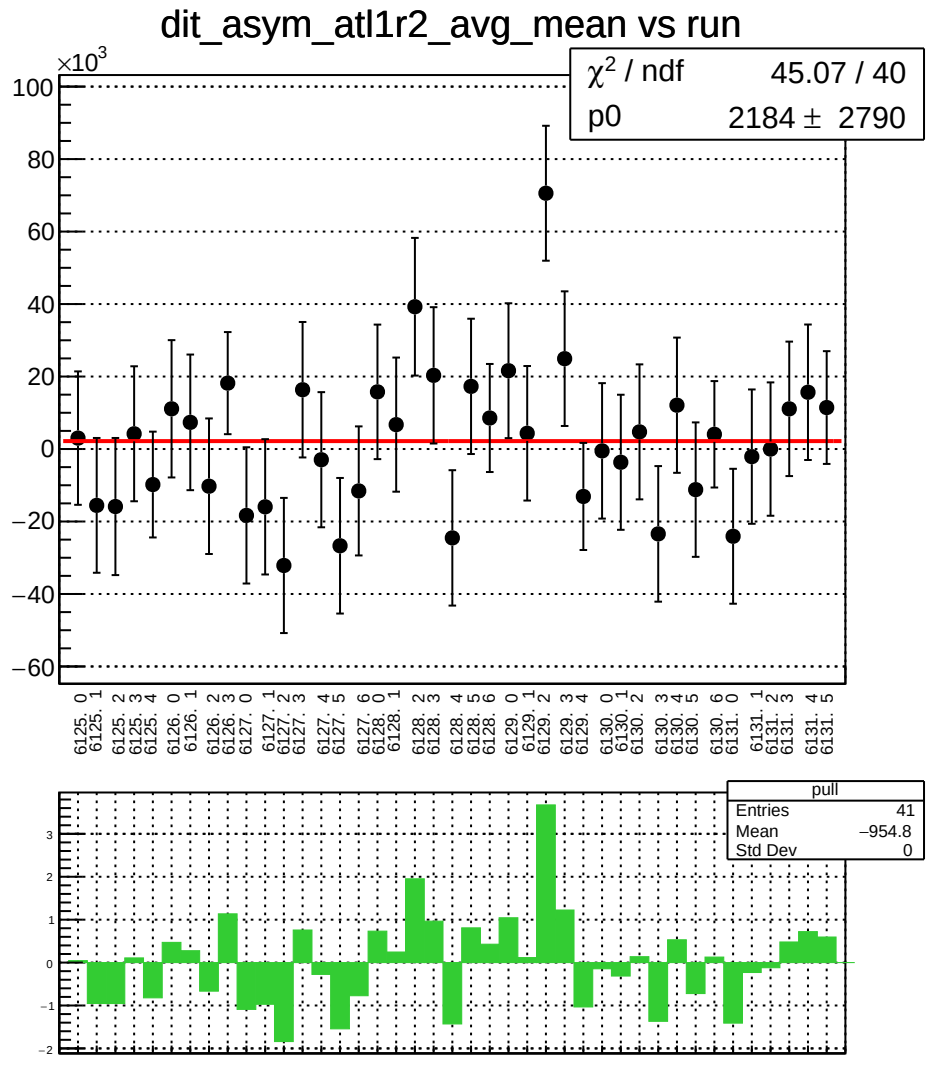

pull1D
Entries 41
Mean −0.001904
Std Dev 1.053

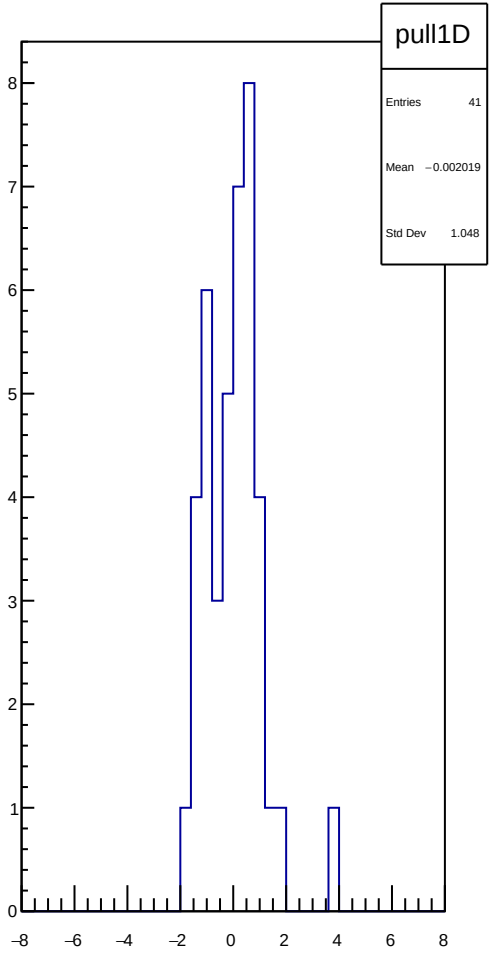

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 31.59 / 40
p0 1761 ± 1.964
1810
1800
1790
1780
1770
1760
1750
1740
1730
1720
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

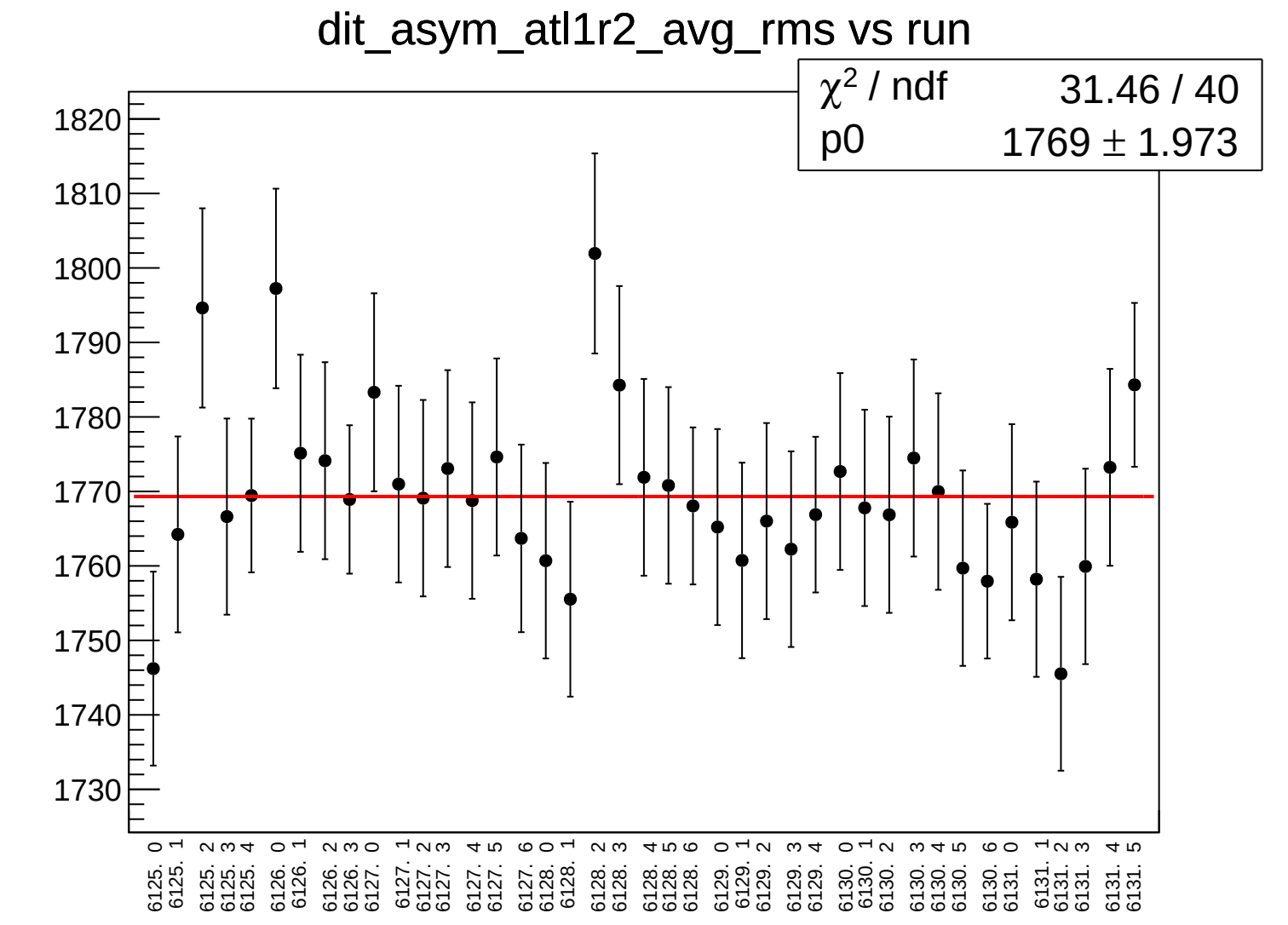

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 28.12 / 40
p0 2926 ± 6974
150
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 178.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

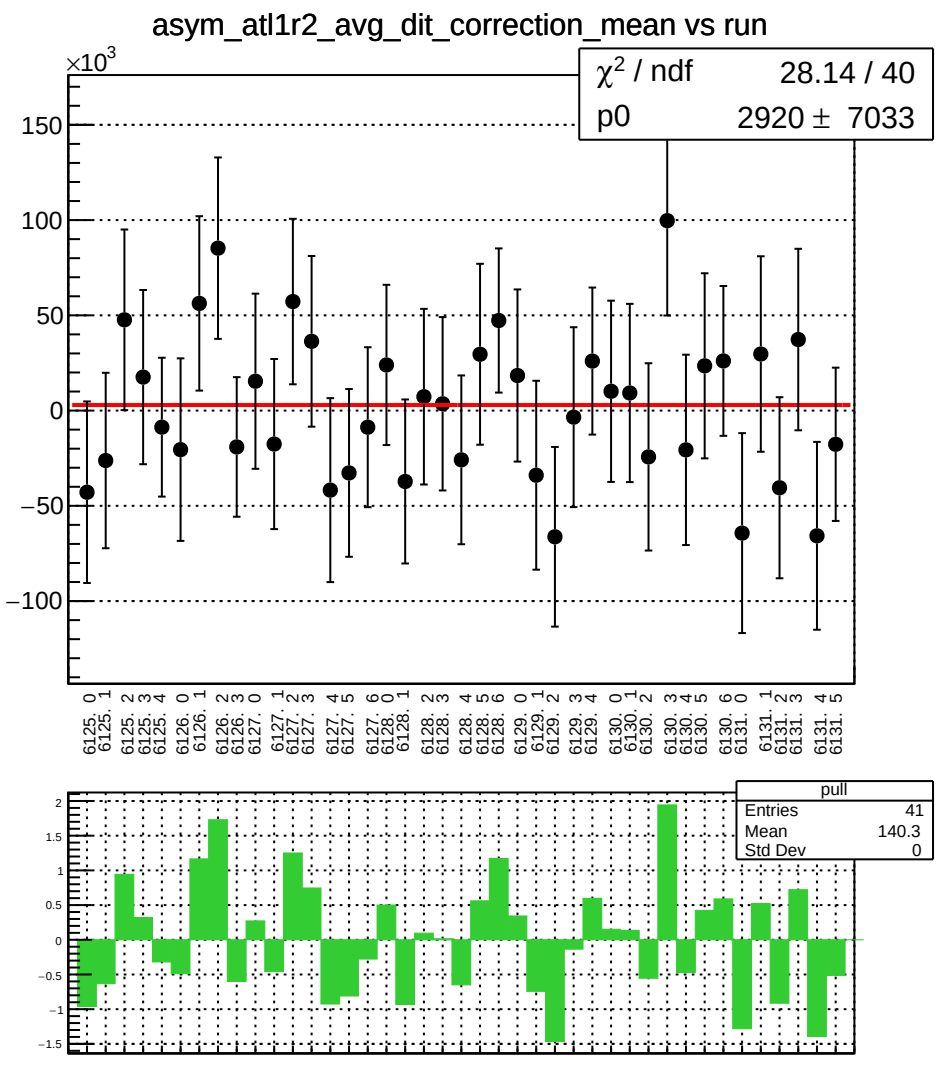

pull1D
Entries 41
Mean −0.006366
Std Dev 0.8281
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

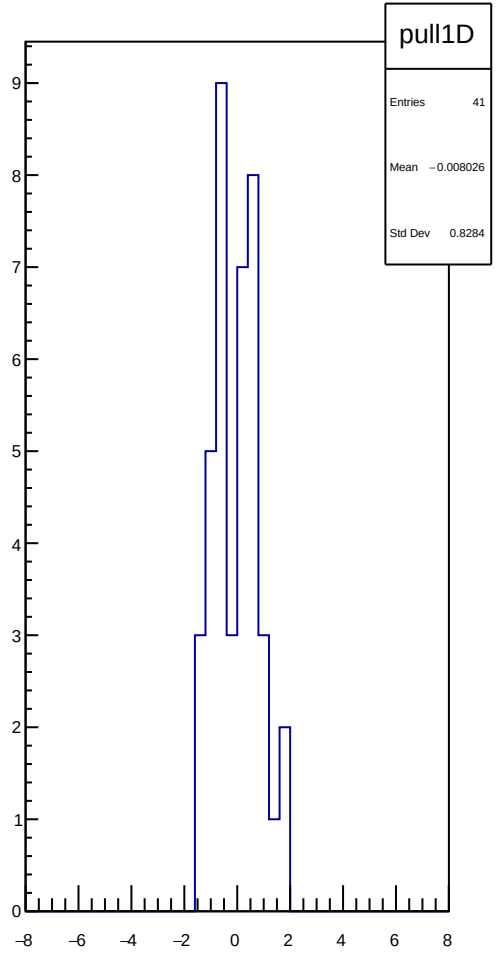

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1839 / 40
p0 4417 ± 4.931
5000
4800
4600
4400
4200
4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

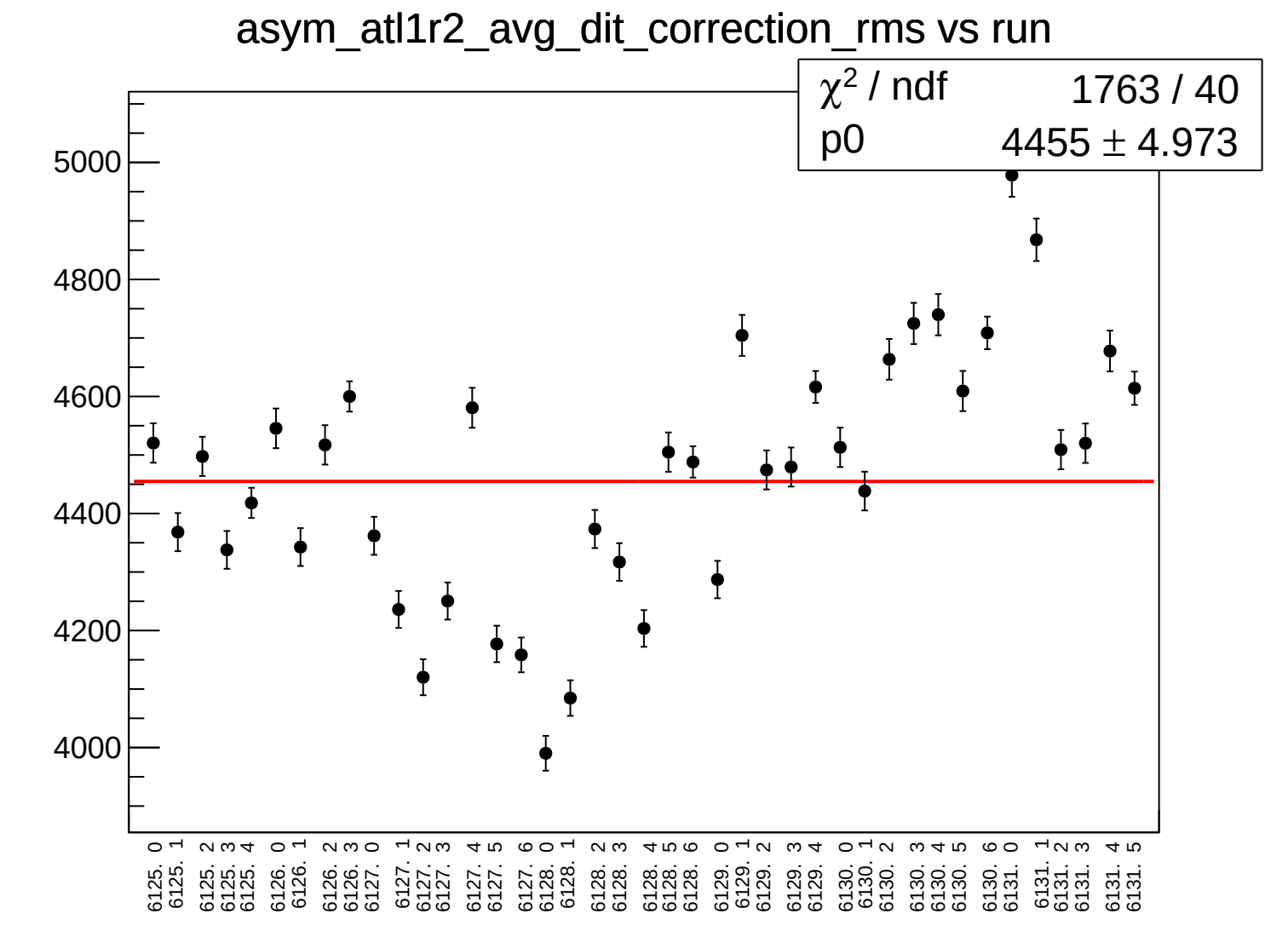

dit_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 45.07 / 40
p0 2184 ± 2790
pull
Entries 41
Mean −954.8
Std Dev 0

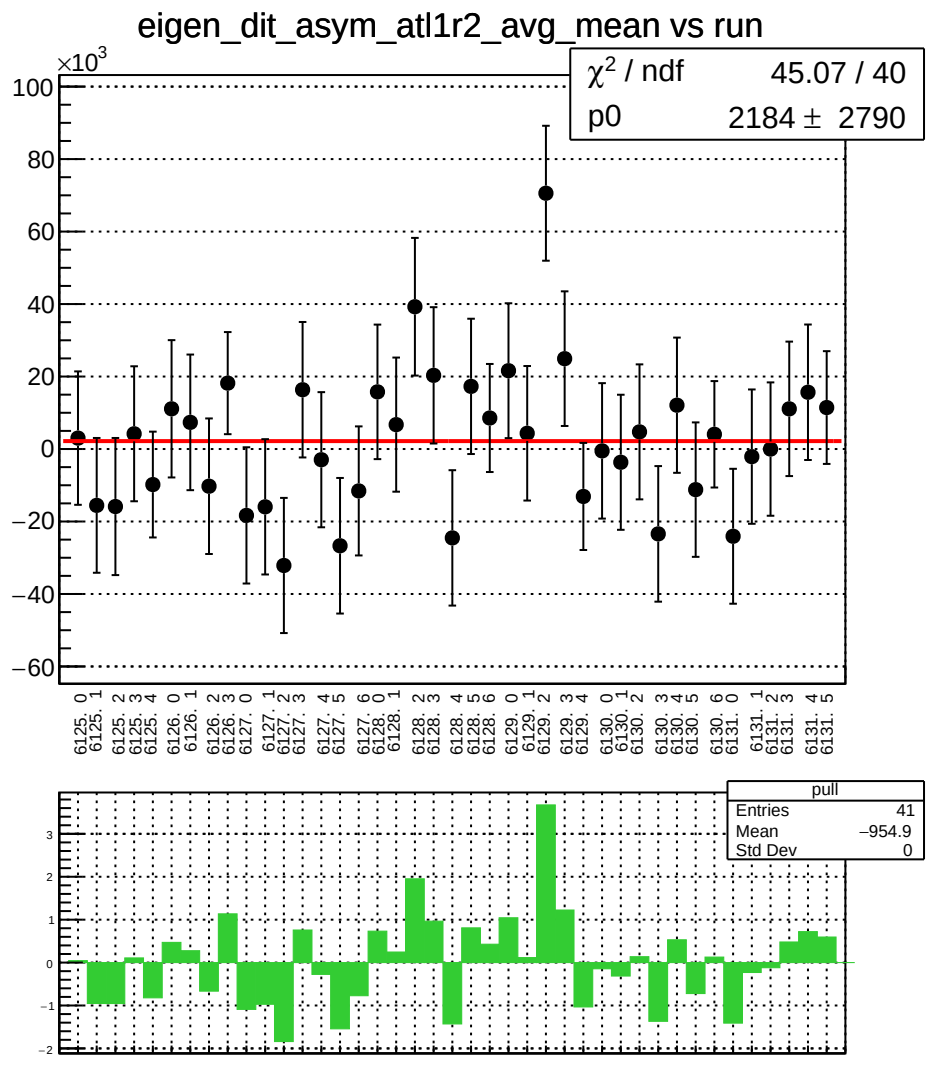

pull1D
Entries 41
Mean −0.002019
Std Dev 1.048

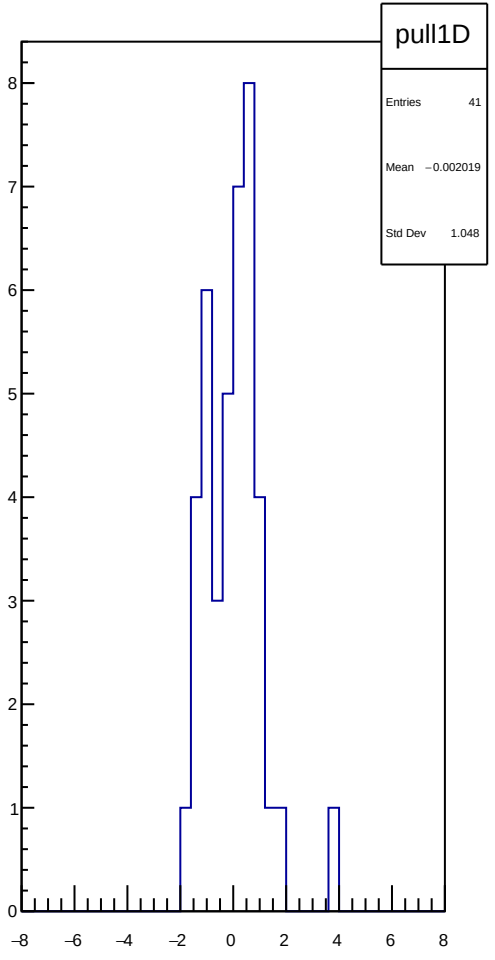

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 31.46 / 40
p0 1769 ± 1.973
1820
1810
1800
1790
1780
1770
1760
1750
1740
1730
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

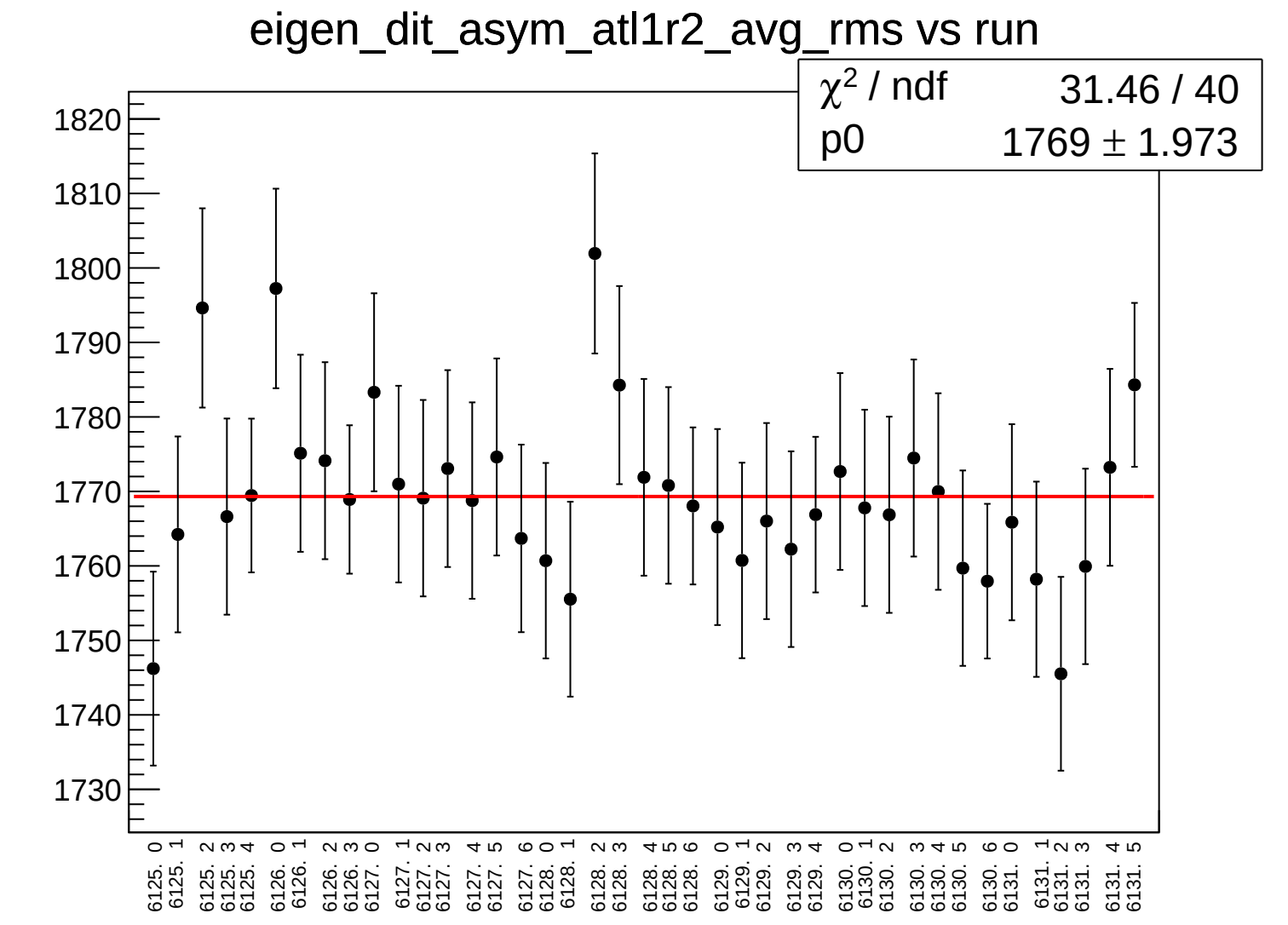

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 28.14 / 40
p0 2920 ± 7033
150
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 140.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

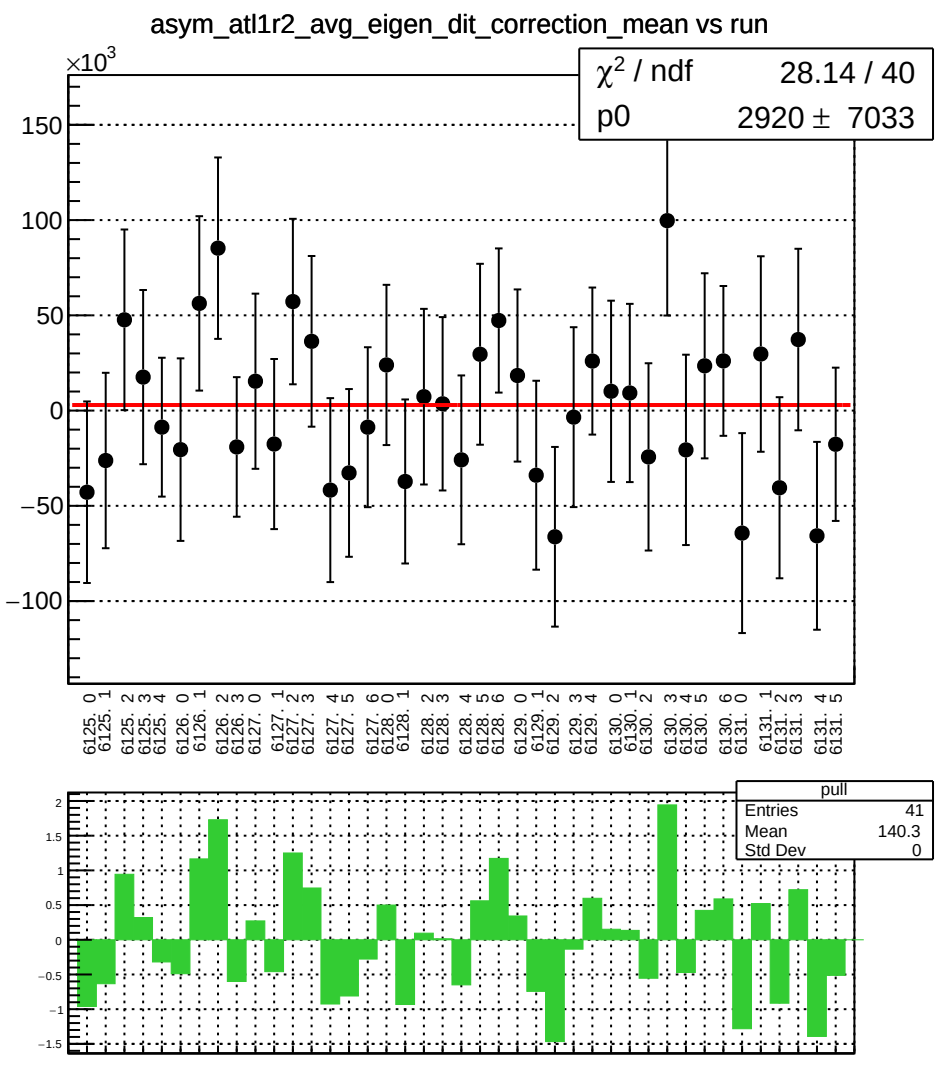

pull1D
Entries 41
Mean −0.008026
Std Dev 0.8284
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

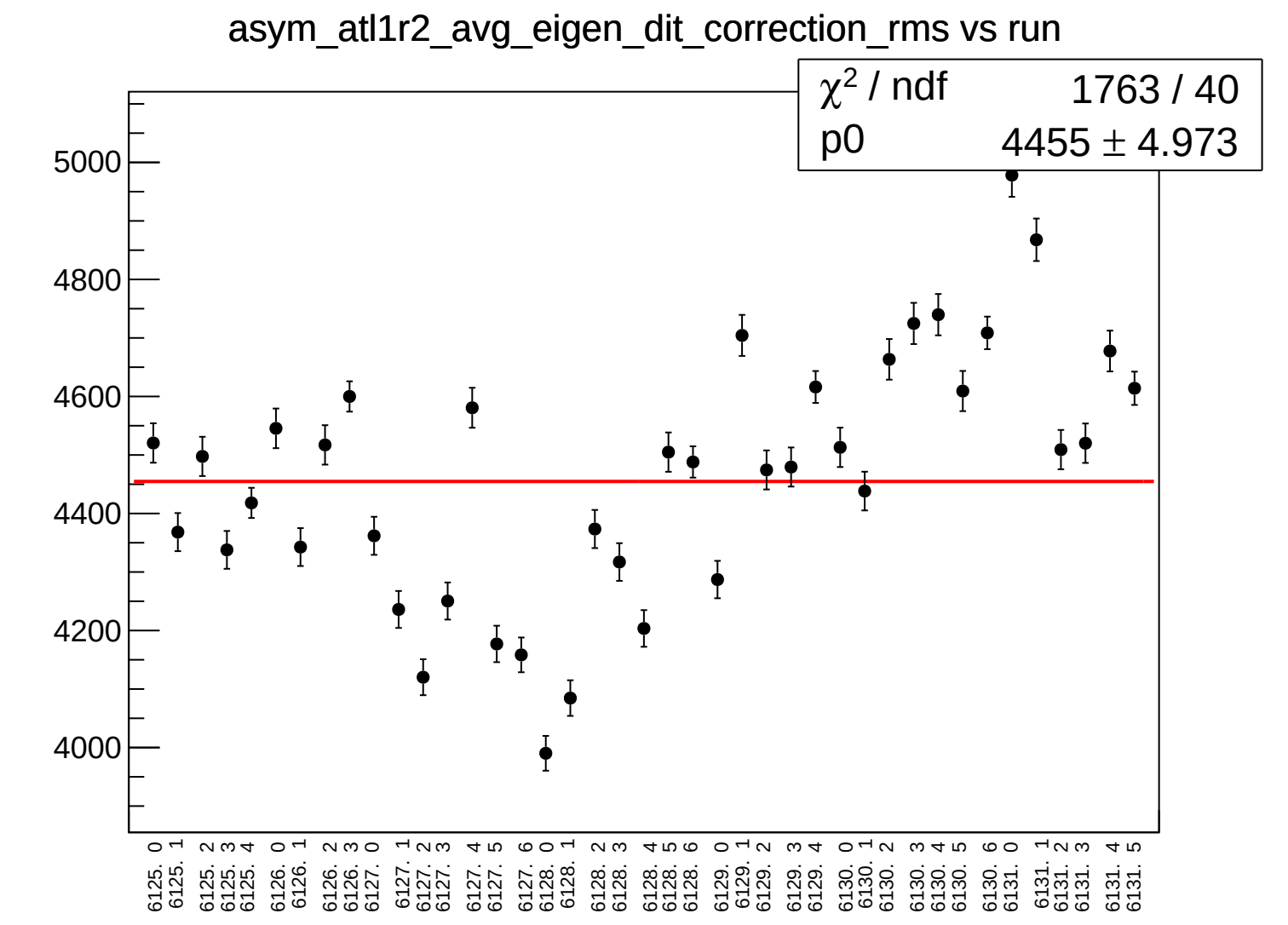

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 1763 / 40
p0 4455 ± 4.973
5000
4800
4600
4400
4200
4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

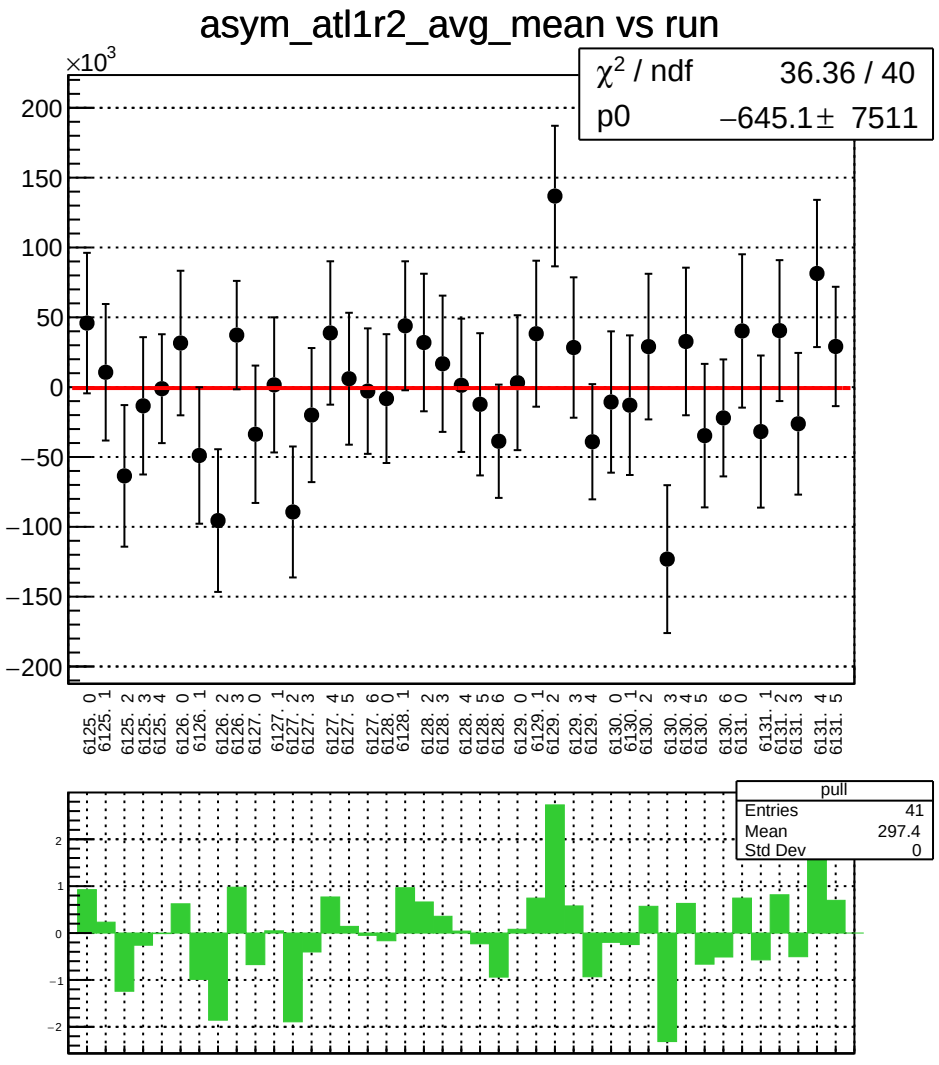

eigen_dit_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 45.07 / 40
p0 2184 ± 2790
100
80
60
40
20
0
−20
−40
−60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −954.9
Std Dev 0
3
2
1
0
−1
−2

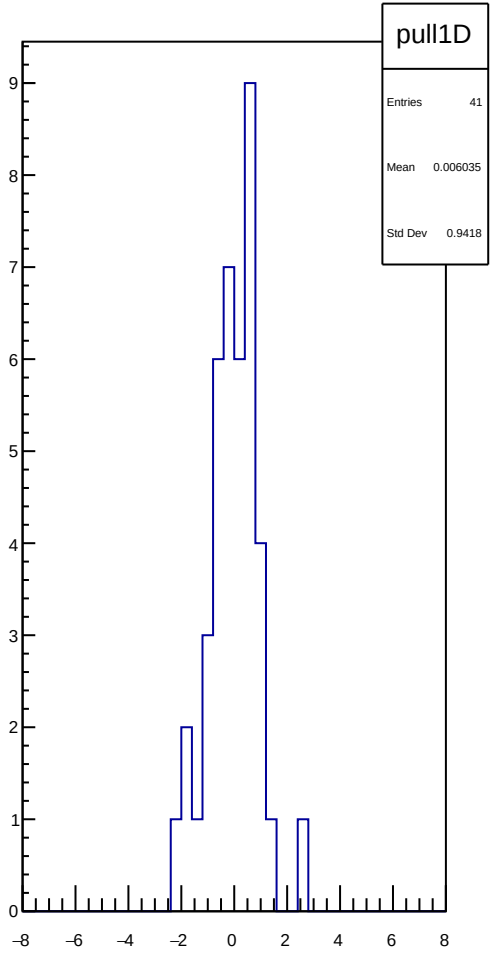

pull1D
Entries 41
Mean −0.002019
Std Dev 1.048
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

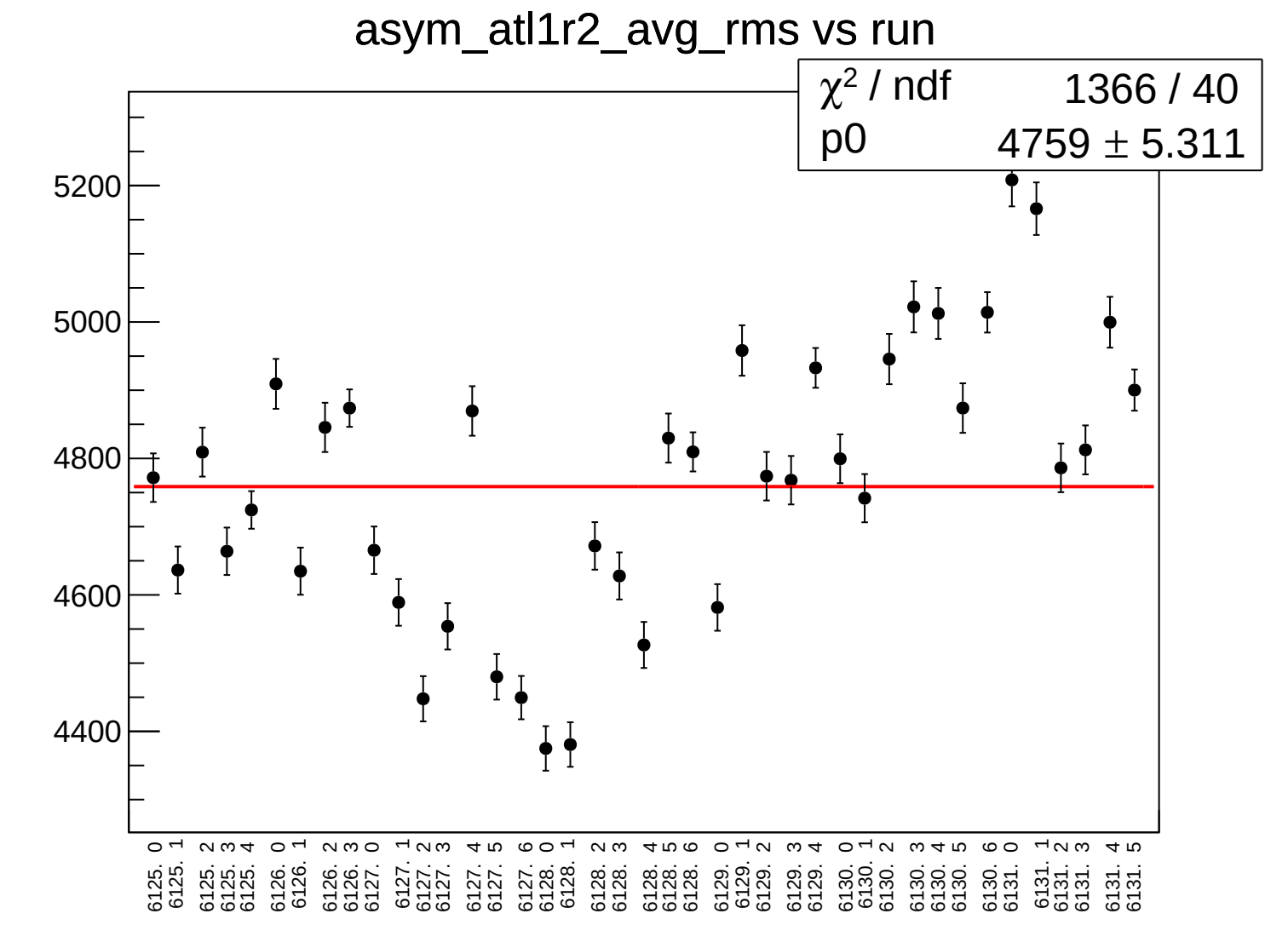

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 31.46 / 40
p0 1769 ± 1.973
1820
1810
1800
1790
1780
1770
1760
1750
1740
1730
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

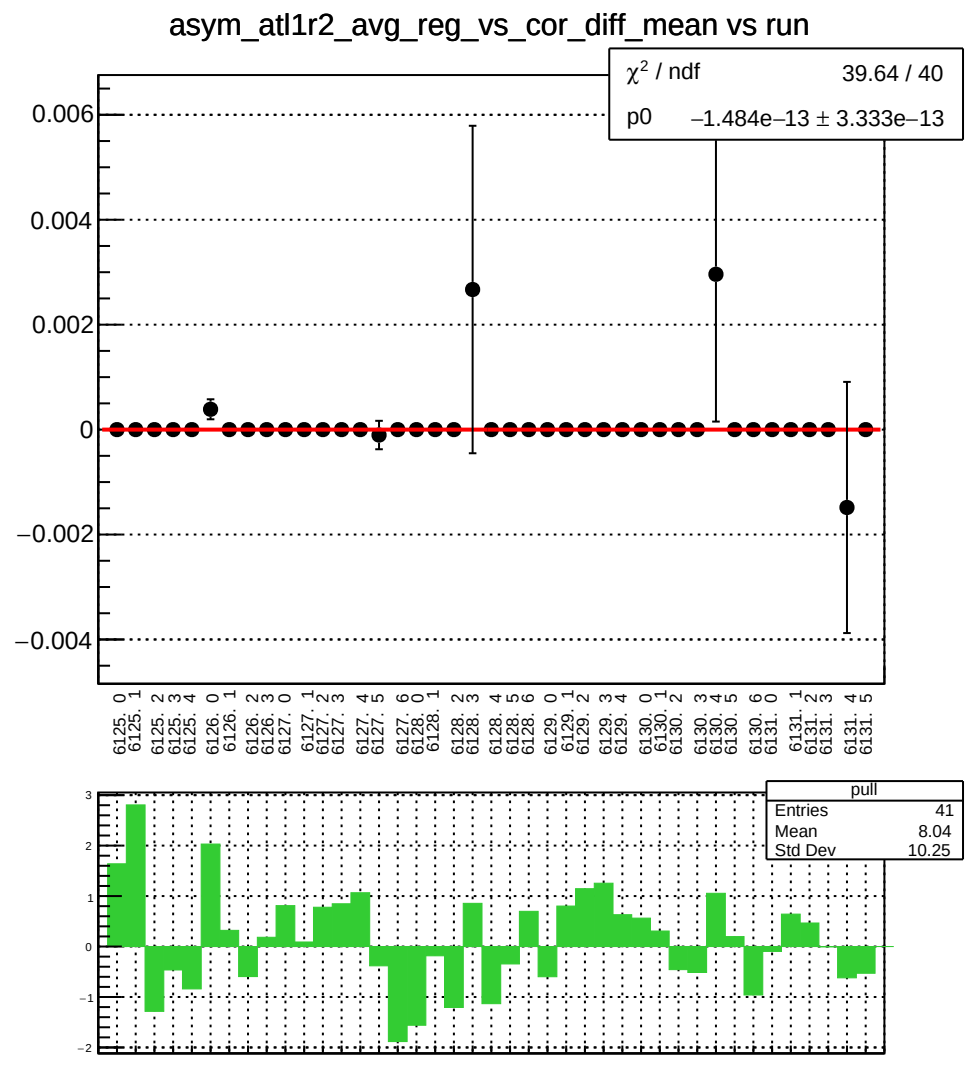

asym_atl1r2_avg_eigen_dit_correction_mean vs run
χ² / ndf 28.14 / 40
p0 2920 ± 7033
pull
Entries 41
Mean 140.3
Std Dev 0
pull1D
Entries 41
Mean −0.008026
Std Dev 0.8284

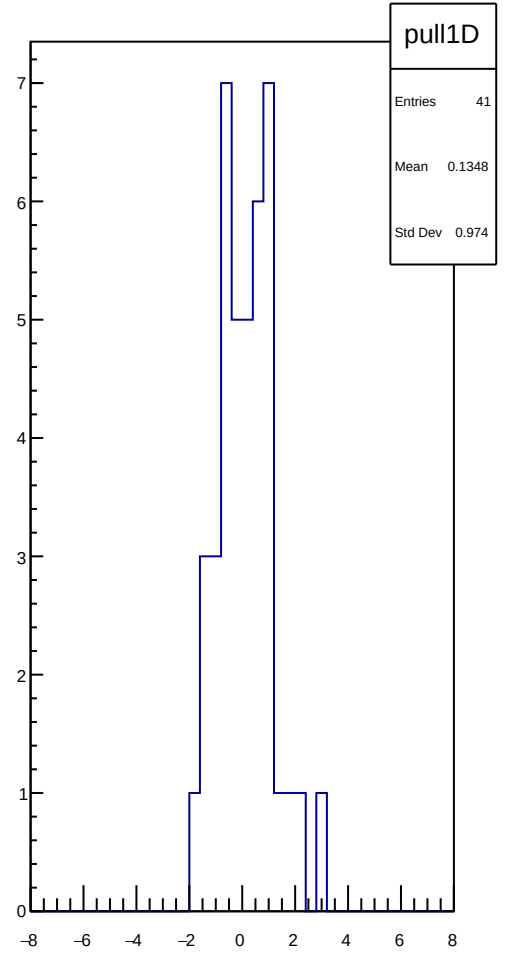

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1763 / 40
p0 4455 ± 4.973
5000
4800
4600
4400
4200
4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

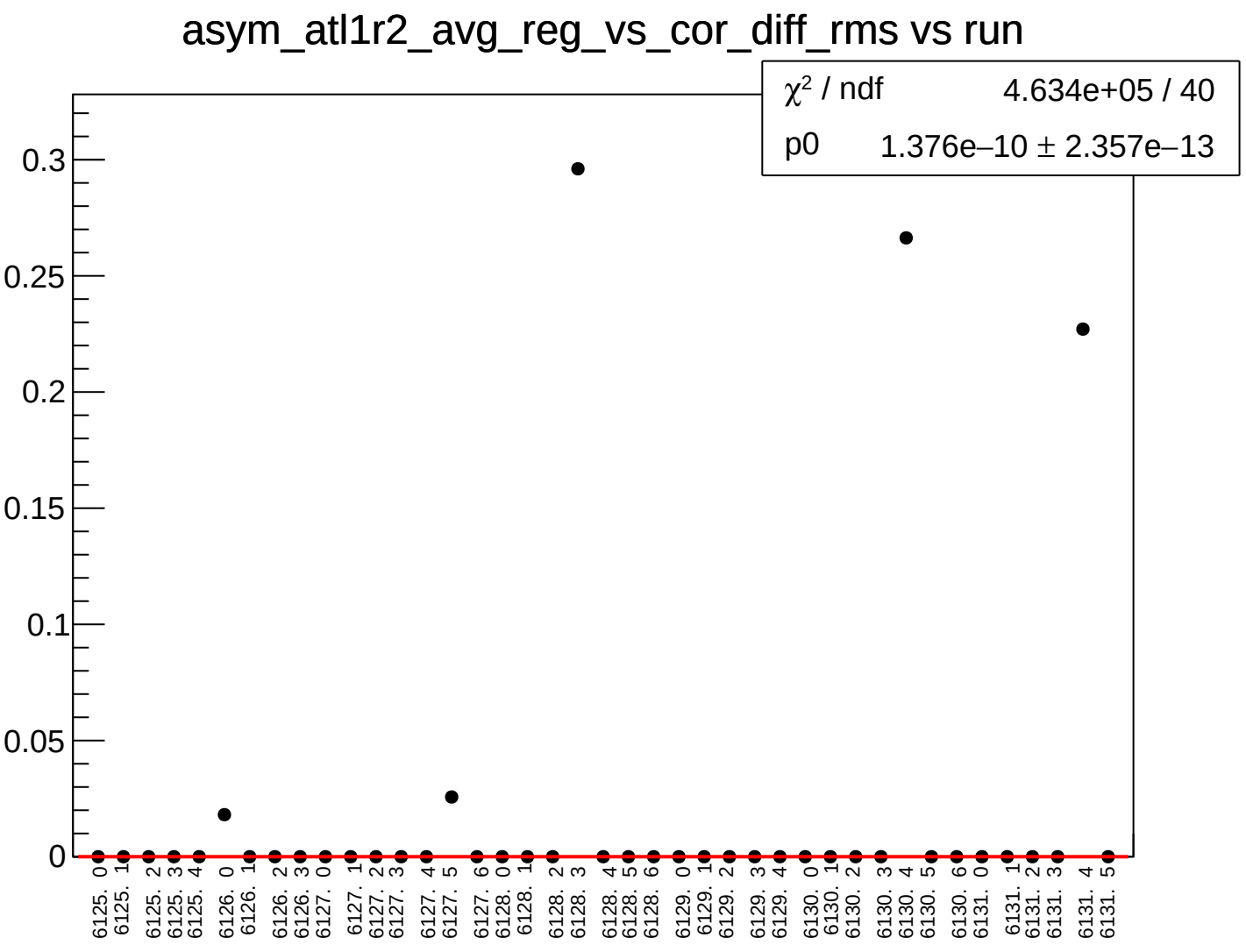

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 36.36 / 40
p0 −645.1± 7511
200
150
100
50
0
−50
−100
−150
−200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 297.4
Std Dev 0
2
1
0
−1
−2

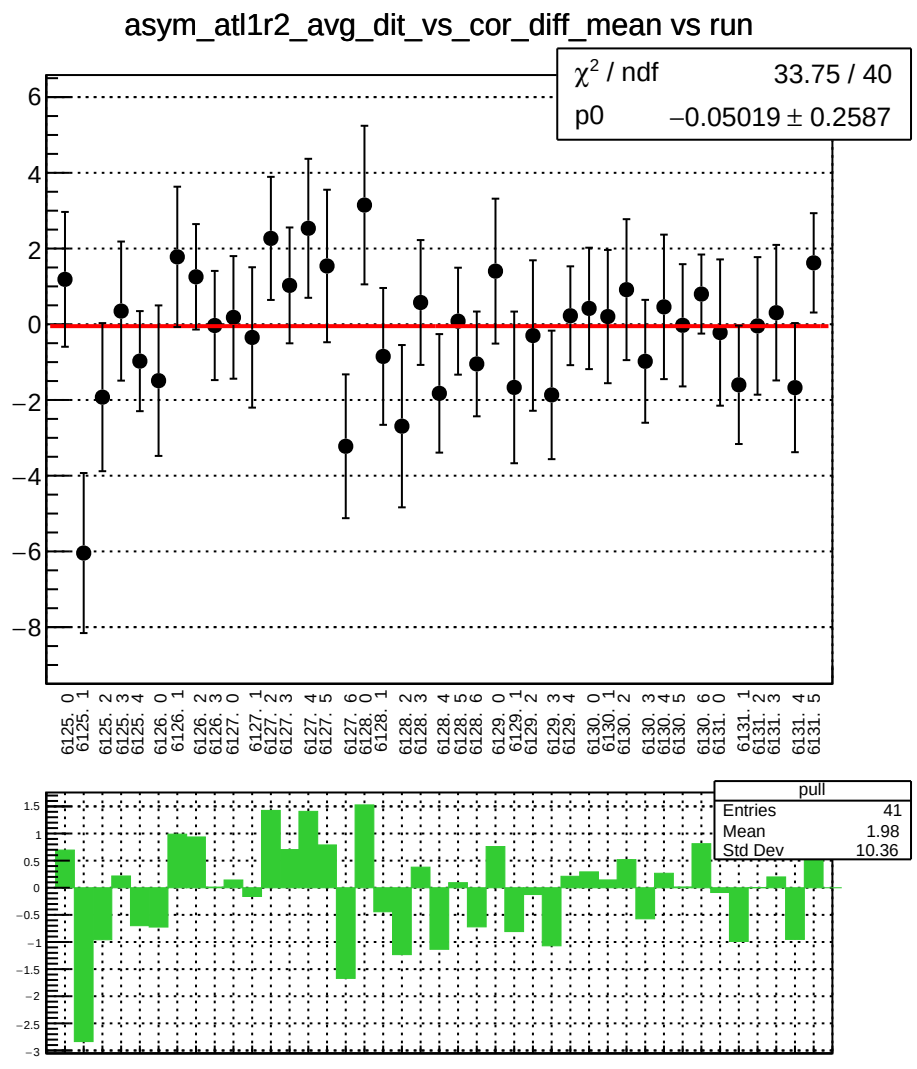

pull1D
Entries 41
Mean 0.006035
Std Dev 0.9418
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

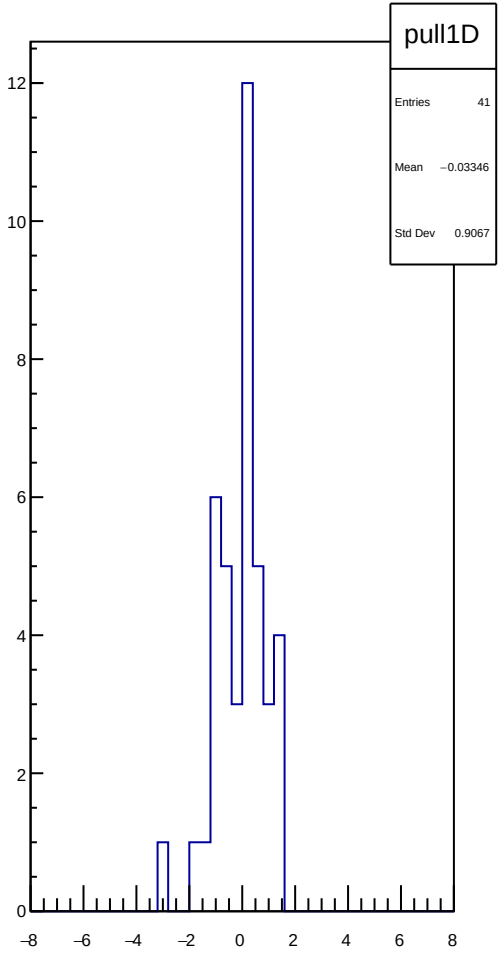

asym_atl1r2_avg_rms vs run
χ² / ndf 1366 / 40
p0 4759 ± 5.311
5200
5000
4800
4600
4400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

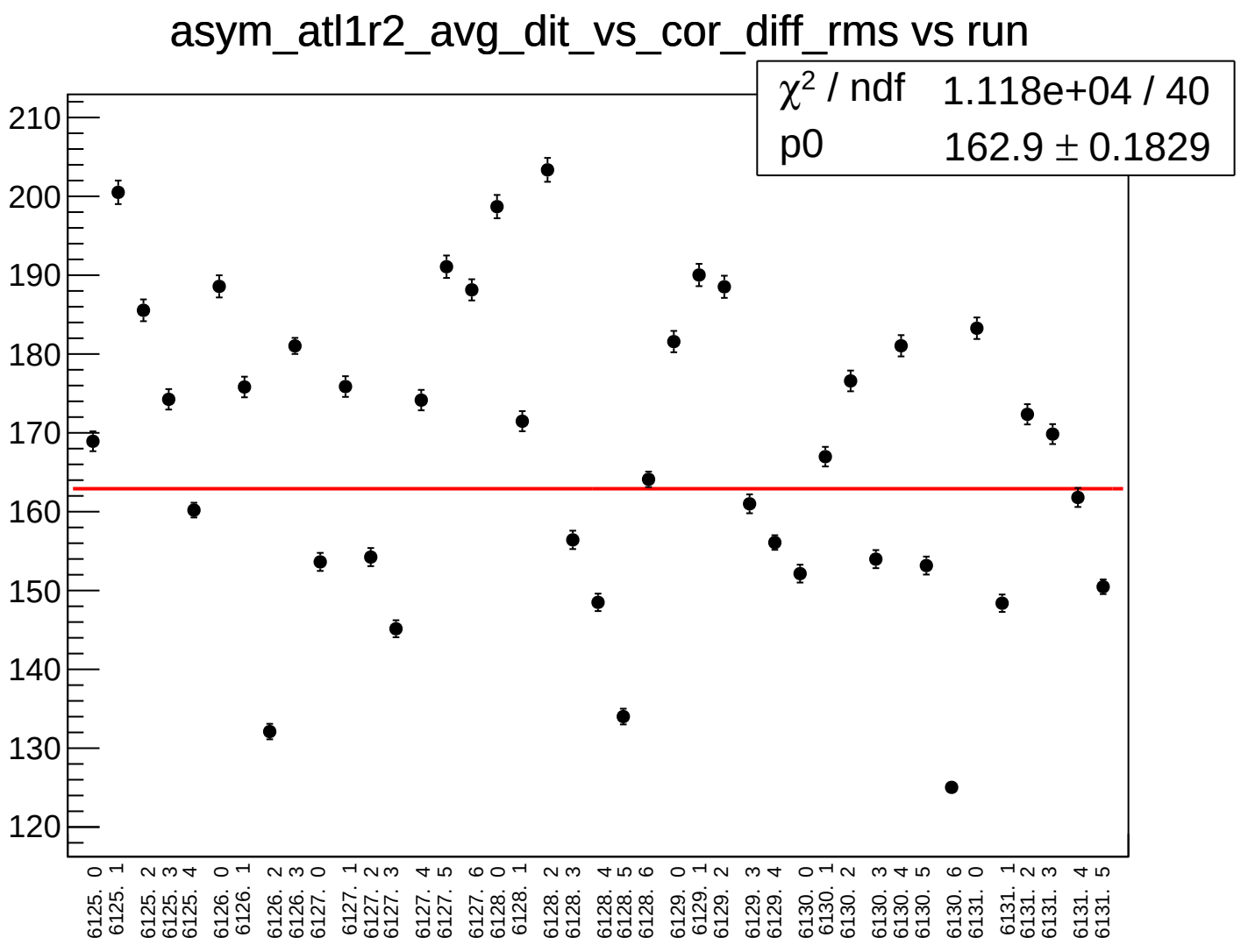

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 39.64 / 40
p0 −1.484e−13 ± 3.333e−13
0.006
0.004
0.002
0
−0.002
−0.004
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 8.04
Std Dev 10.25
3
2
1
0
−1
−2

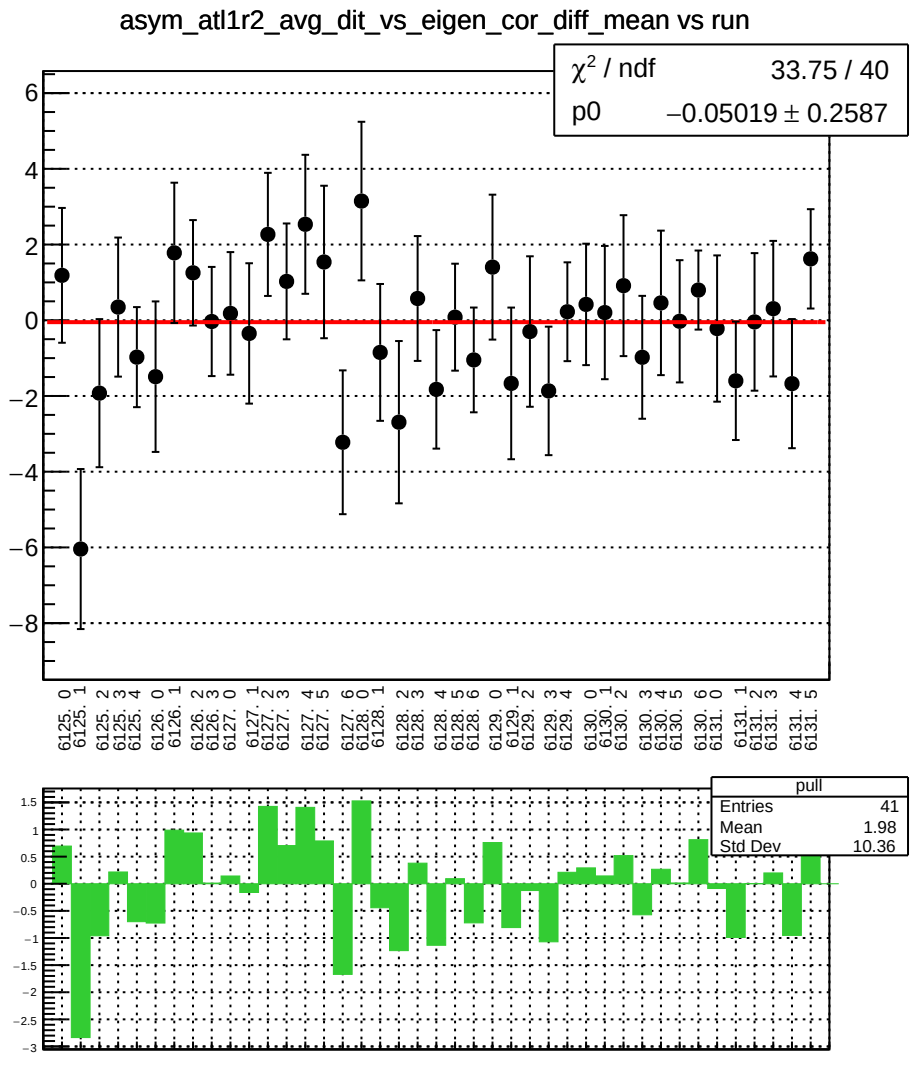

pull1D
Entries 41
Mean 0.1348
Std Dev 0.974
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

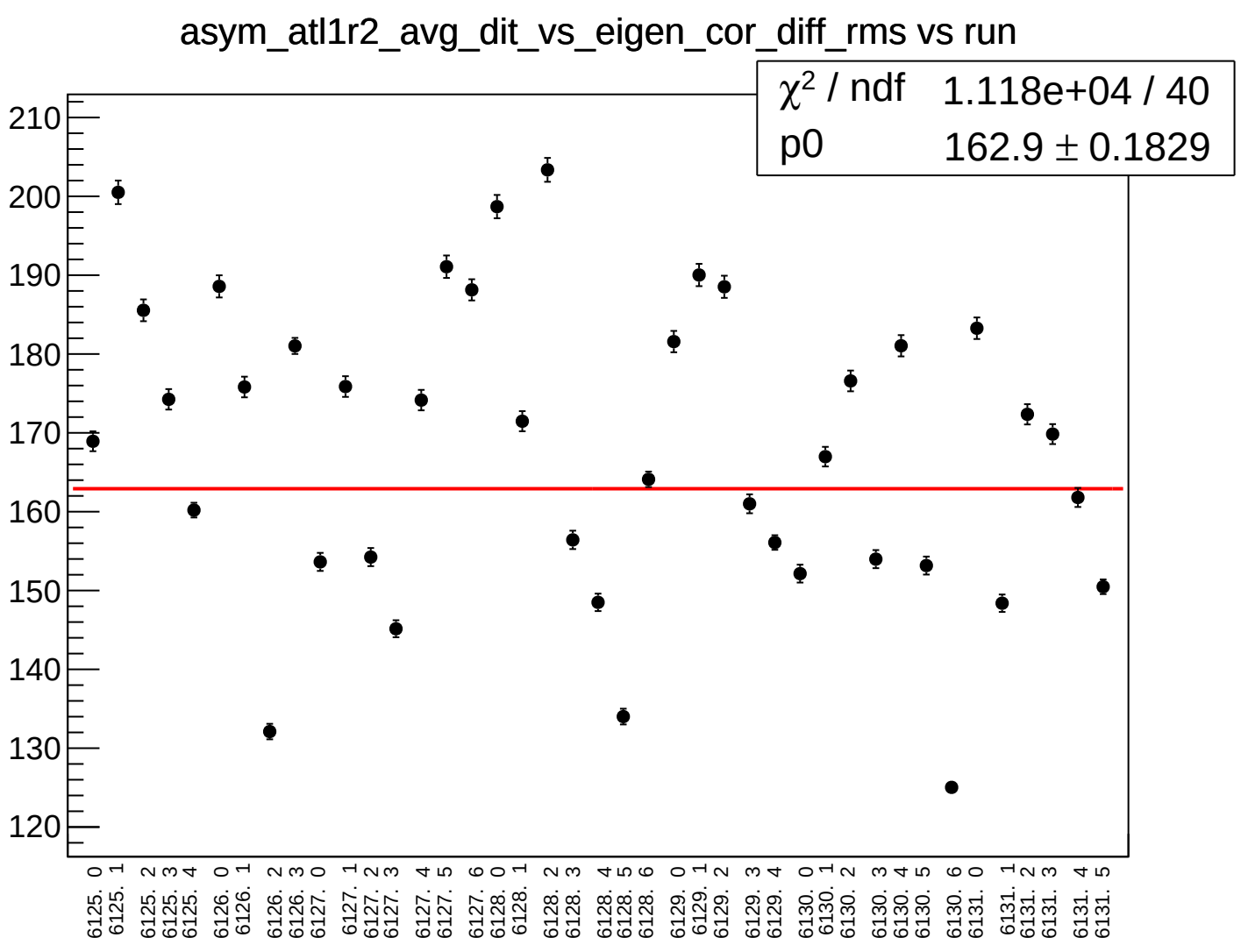

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.634e+05 / 40
p0 1.376e−10 ± 2.357e−13
0.3
0.25
0.2
0.15
0.1
0.05
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

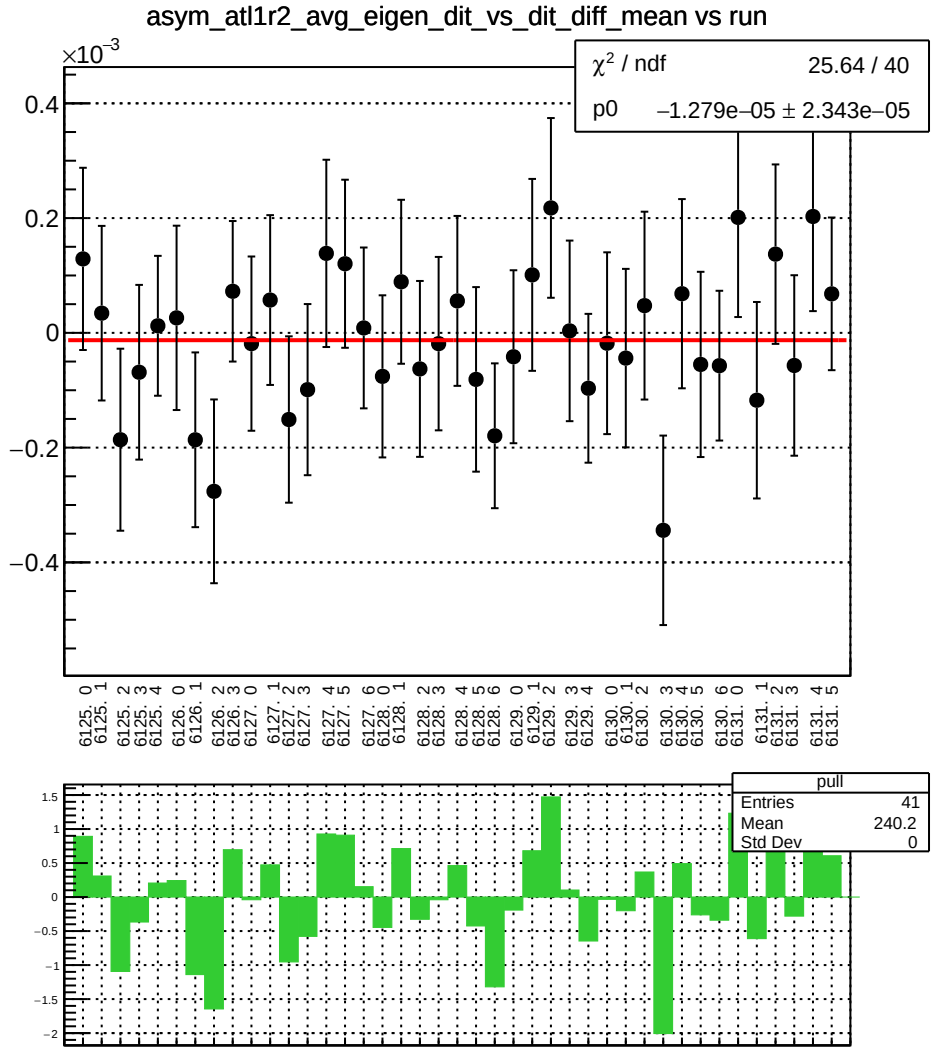

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 33.75 / 40
p0 −0.05019 ± 0.2587
pull
Entries 41
Mean 1.98
Std Dev 10.36

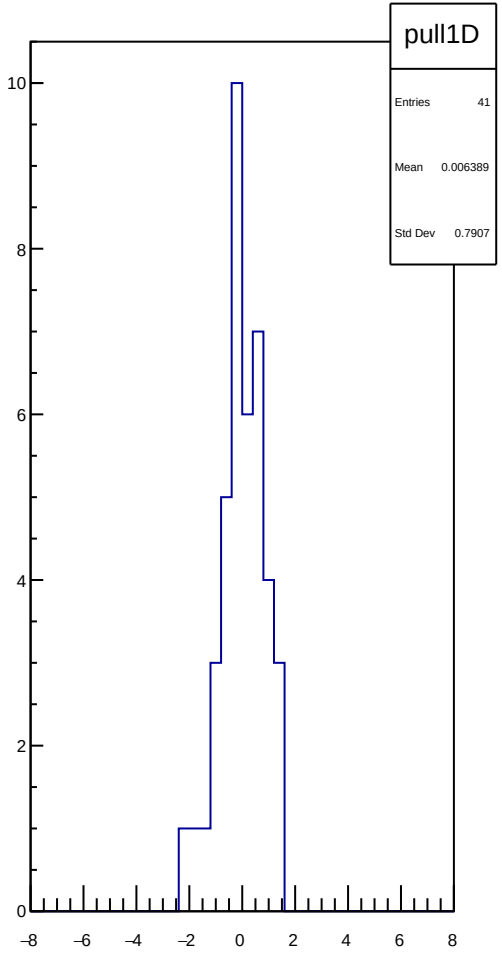

pull1D
Entries 41
Mean −0.03346
Std Dev 0.9067

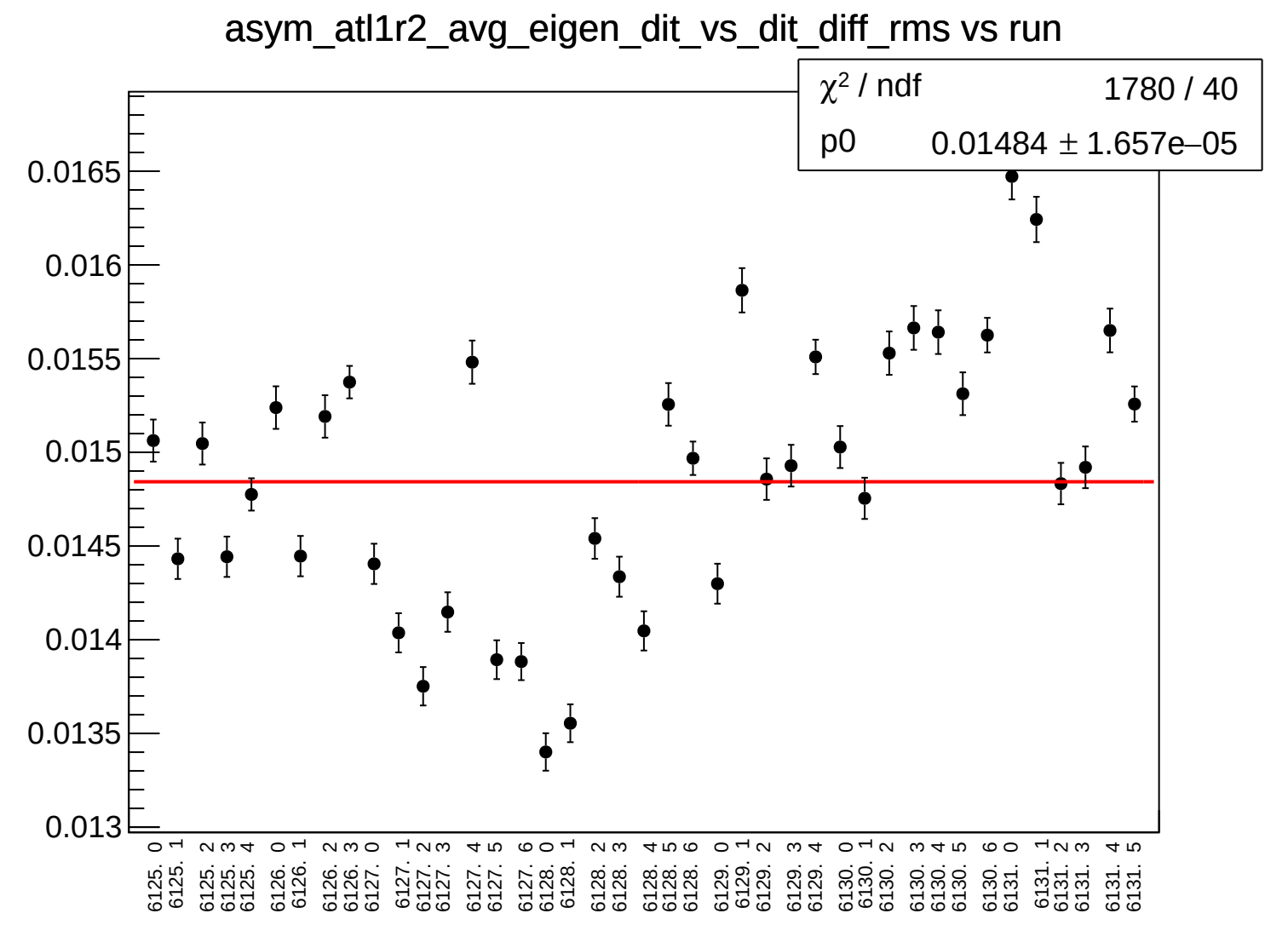

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.118e+04 / 40
p0 162.9 ± 0.1829
210
200
190
180
170
160
150
140
130
120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

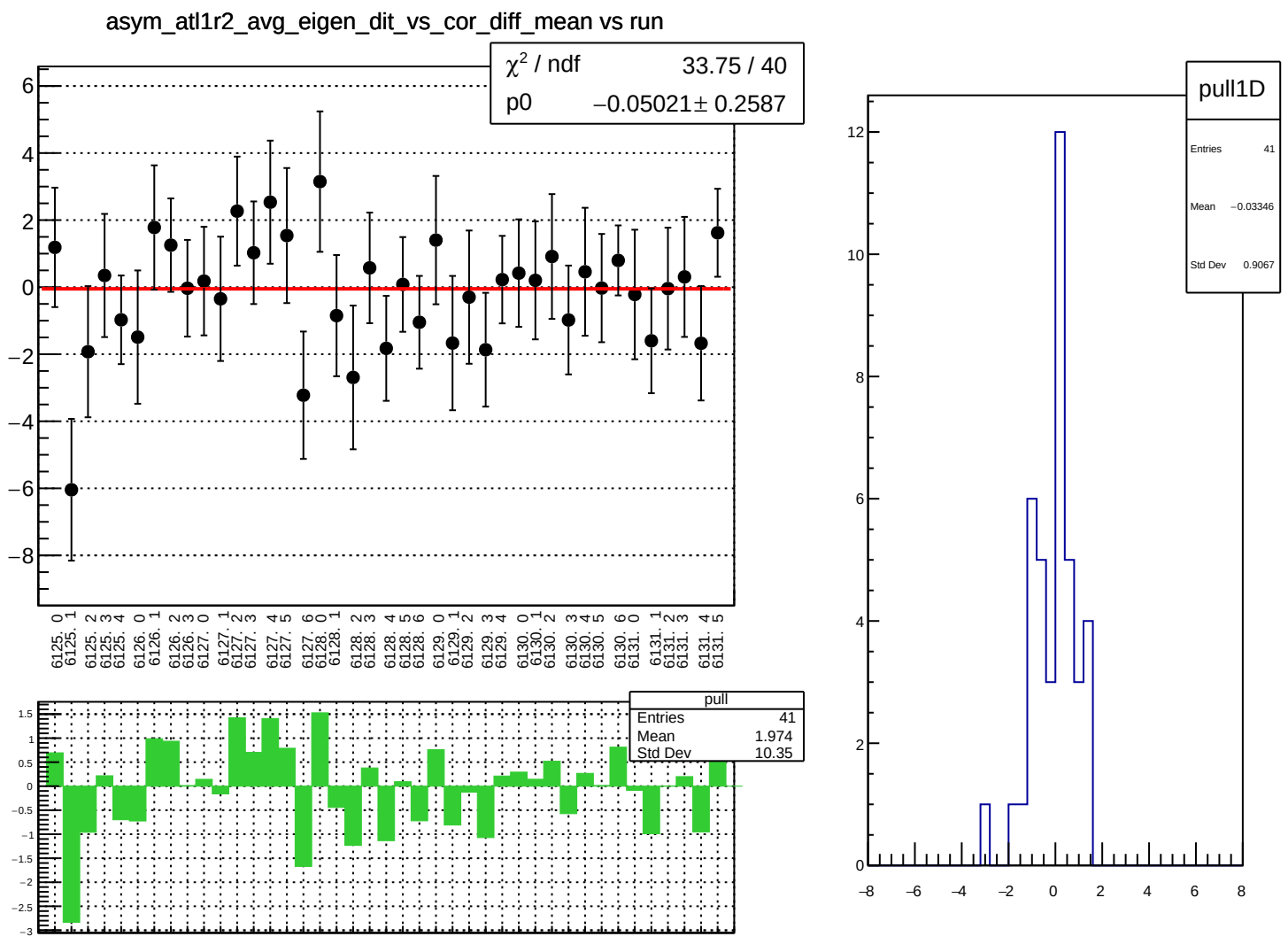

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.75 / 40
p0 −0.05019 ± 0.2587
pull
Entries 41
Mean 1.98
Std Dev 10.36
pull1D
Entries 41
Mean −0.03346
Std Dev 0.9067

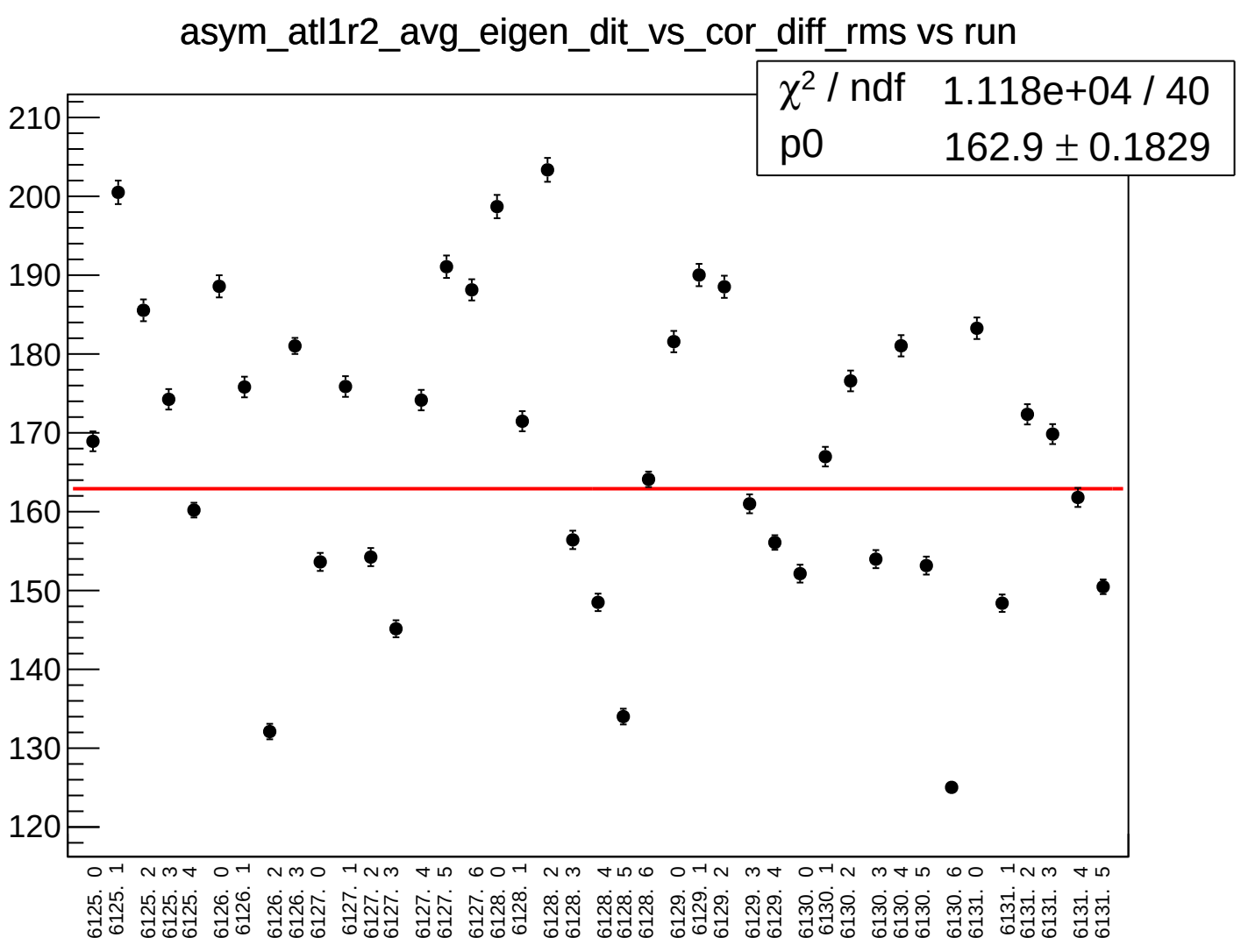

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.118e+04 / 40
p0 162.9 ± 0.1829
210
200
190
180
170
160
150
140
130
120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

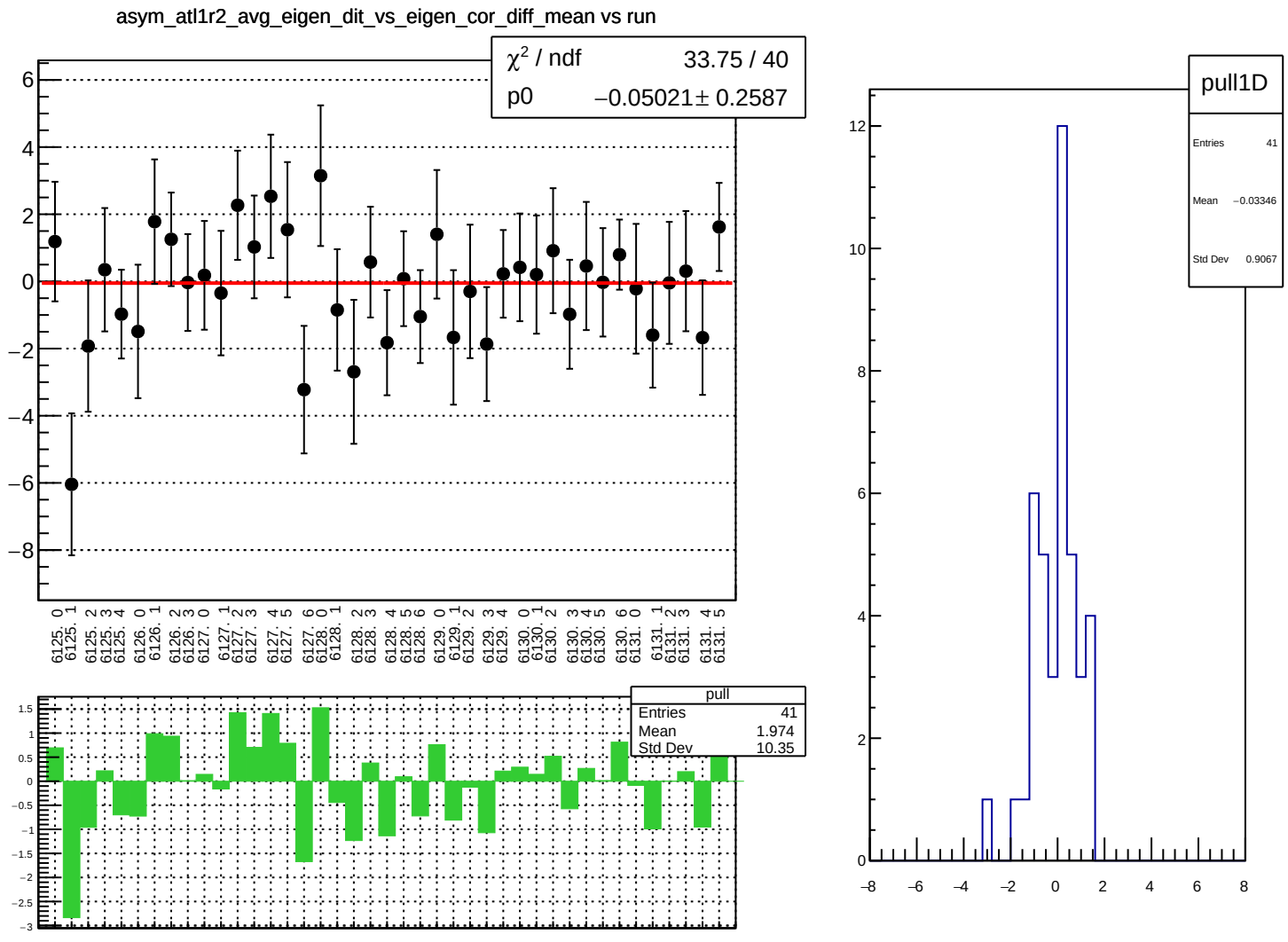

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 25.64 / 40
p0 −1.279e−05 ± 2.343e−05
0.4
0.2
0
−0.2
−0.4
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 240.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

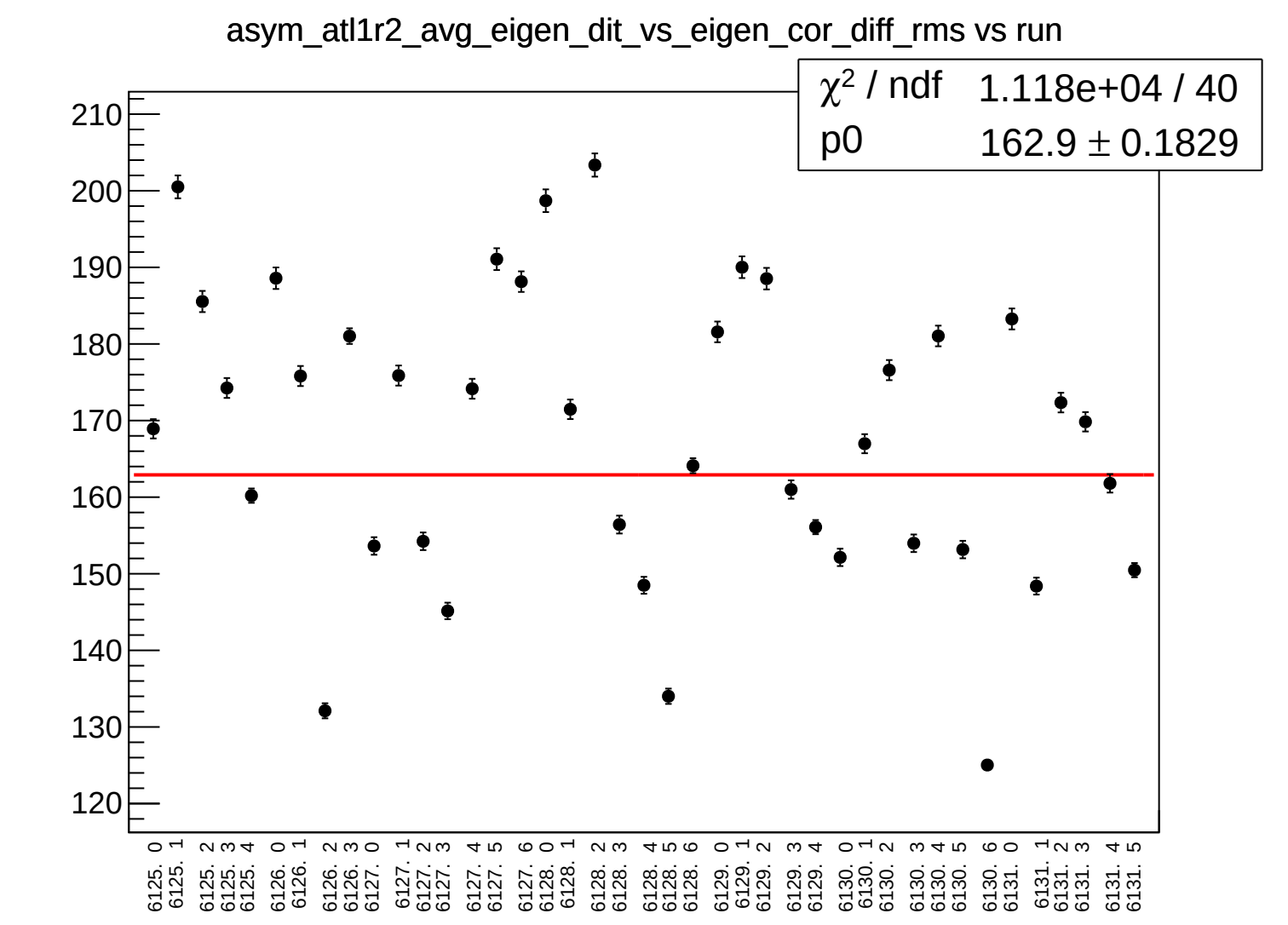

pull1D
Entries 41
Mean 0.006389
Std Dev 0.7907
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

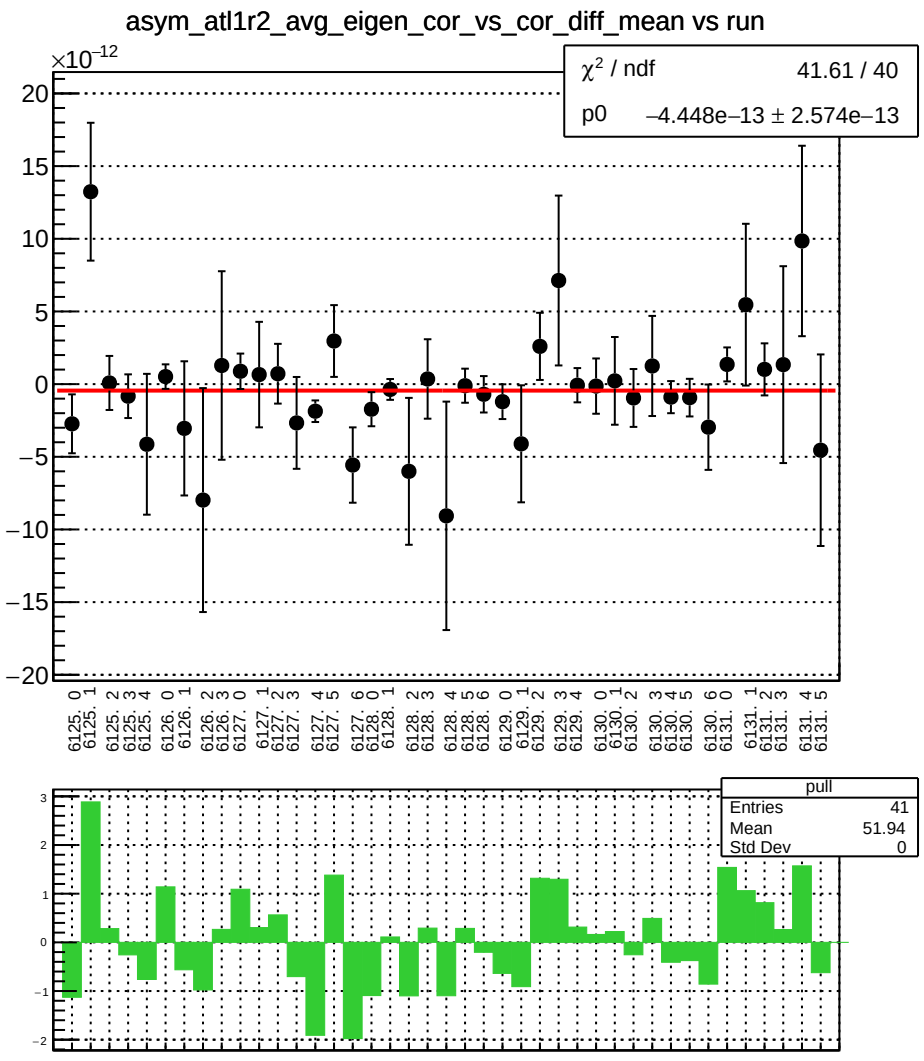

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1780 / 40
p0 0.01484 ± 1.657e−05
0.0165
0.016
0.0155
0.015
0.0145
0.014
0.0135
0.013
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

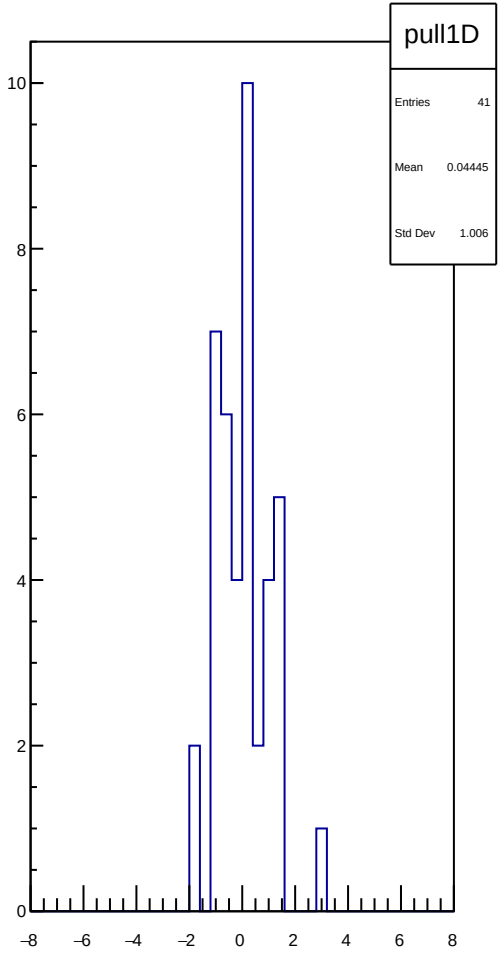

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 33.75 / 40
p0 −0.05021± 0.2587
pull
Entries 41
Mean 1.974
Std Dev 10.35
pull1D
Entries 41
Mean −0.03346
Std Dev 0.9067

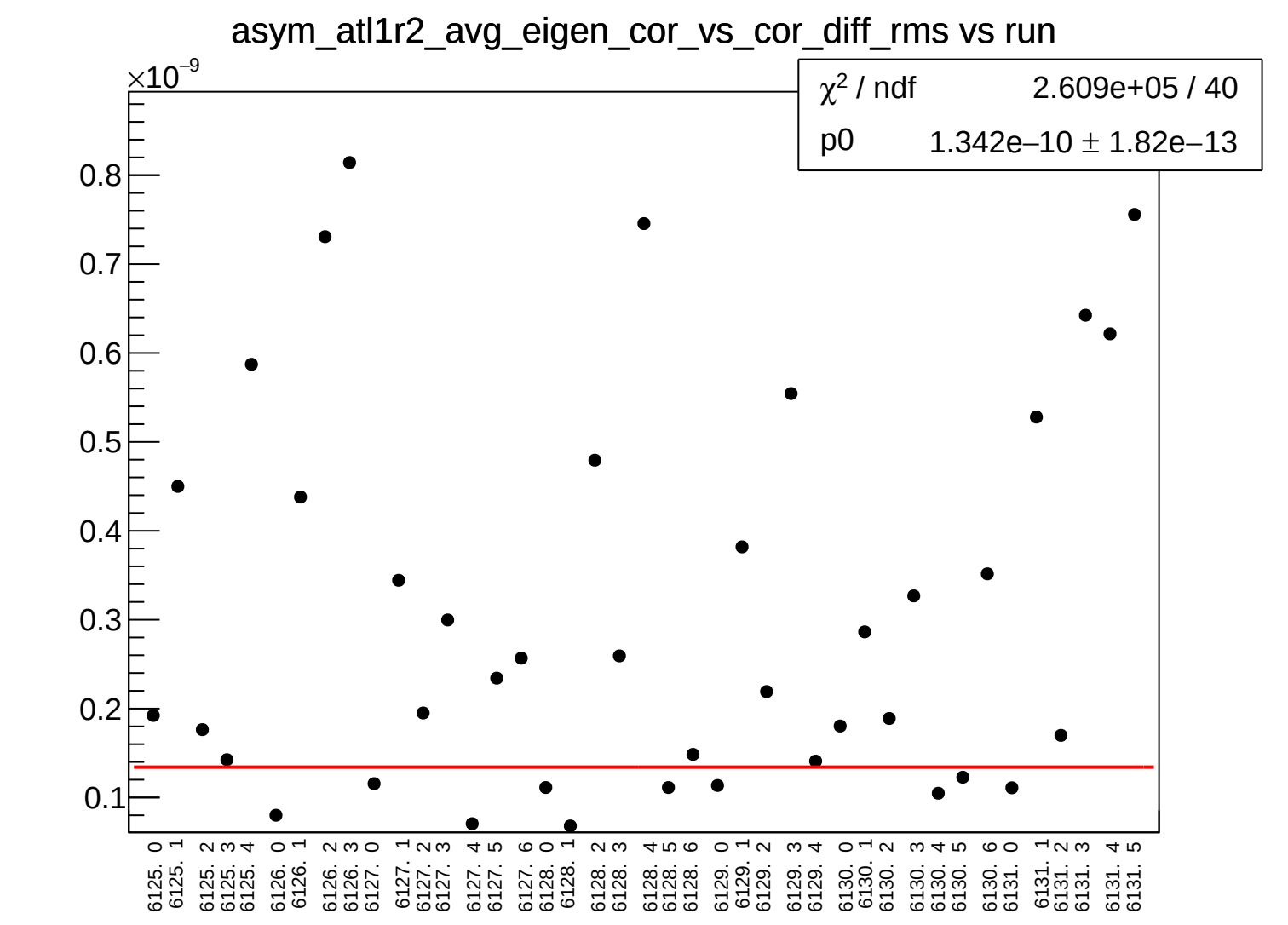

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.118e+04 / 40
p0 162.9 ± 0.1829
210
200
190
180
170
160
150
140
130
120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

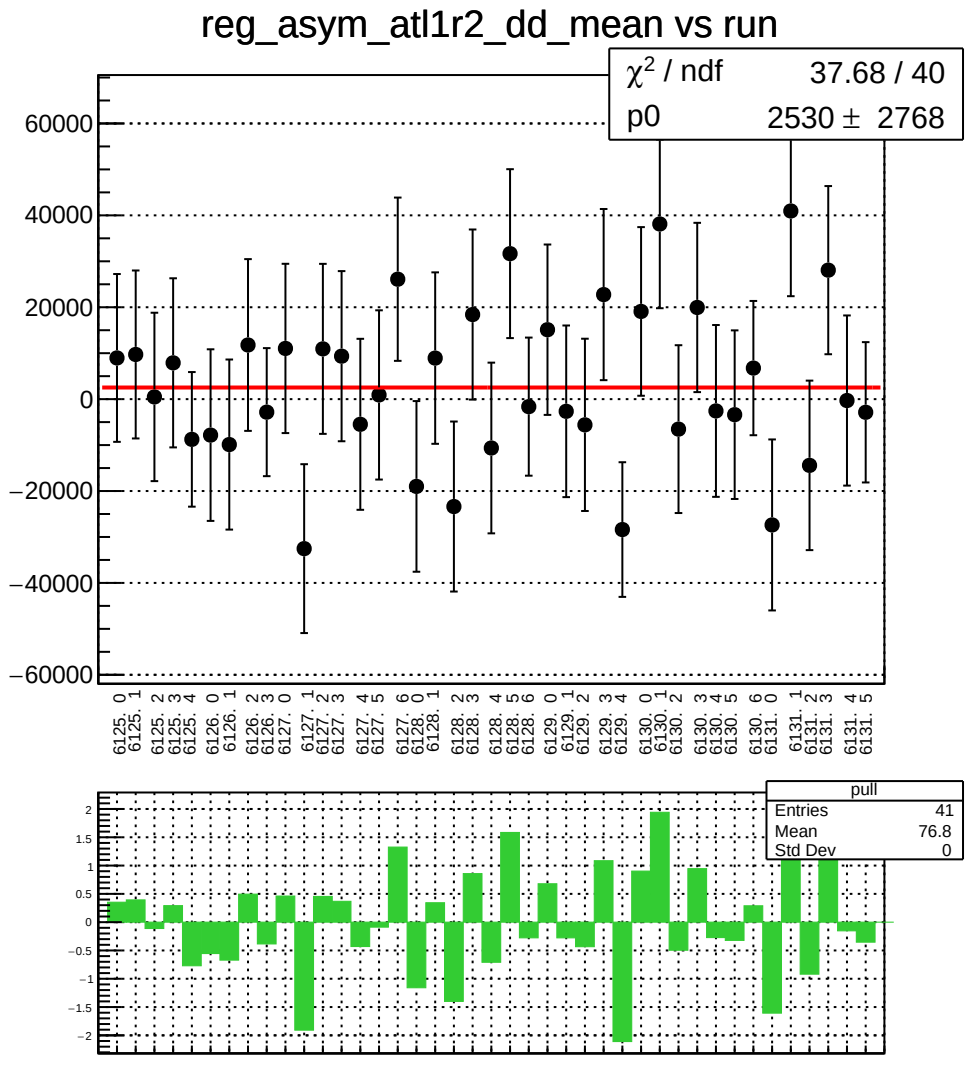

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.75 / 40
p0 −0.05021± 0.2587
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1.974
Std Dev 10.35
pull1D
Entries 41
Mean −0.03346
Std Dev 0.9067

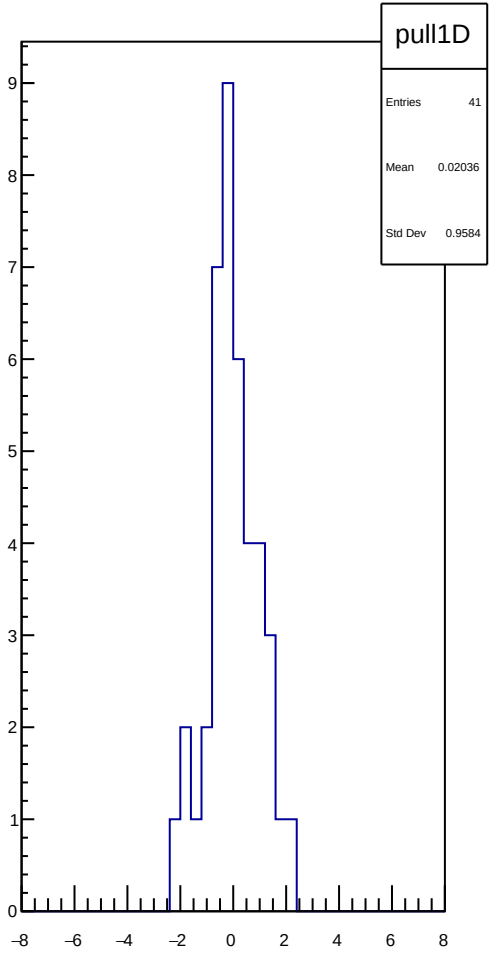

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.118e+04 / 40
p0 162.9 ± 0.1829
210
200
190
180
170
160
150
140
130
120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

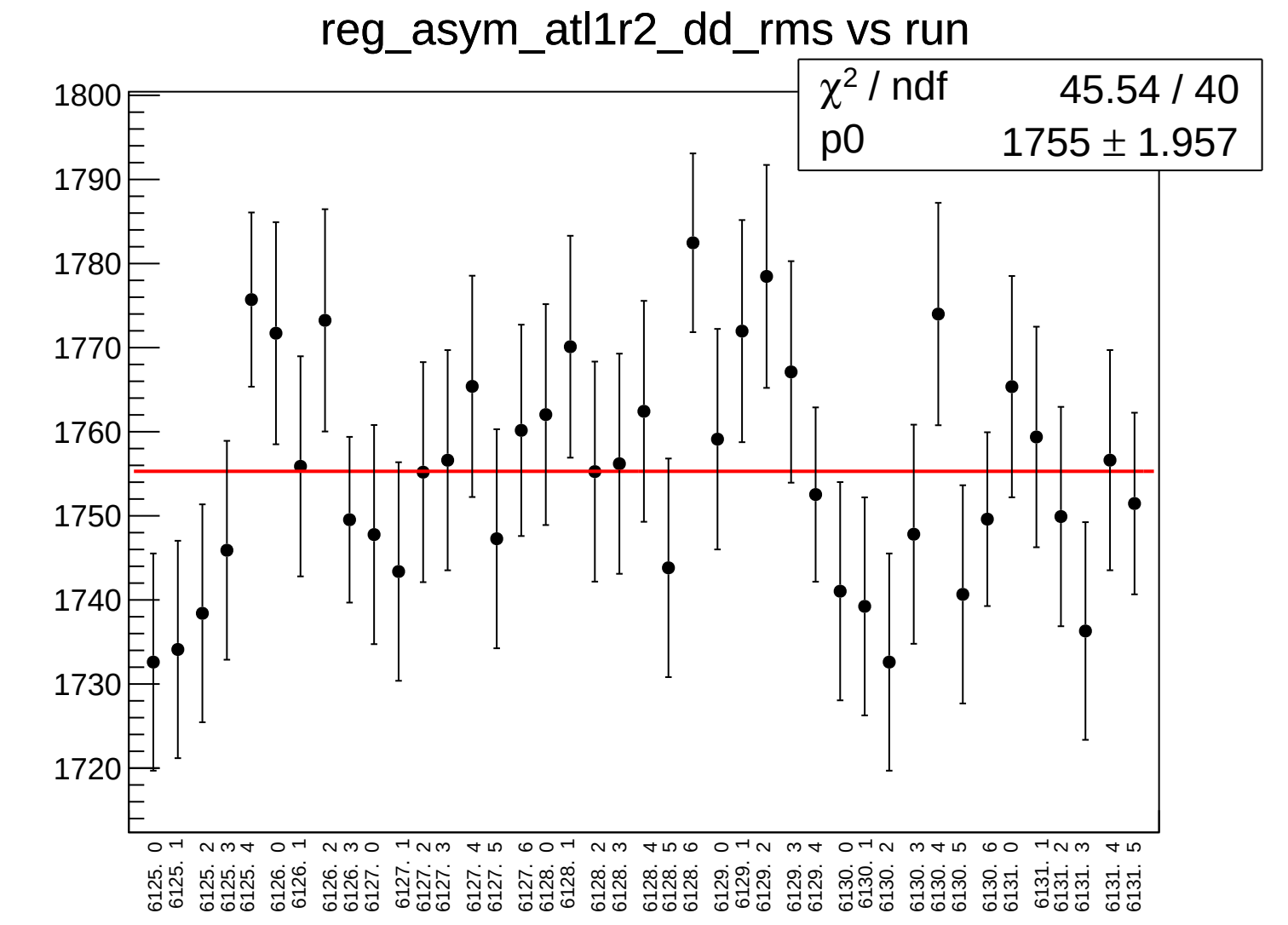

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 41.61 / 40
p0 −4.448e−13 ± 2.574e−13
pull
Entries 41
Mean 51.94
Std Dev 0

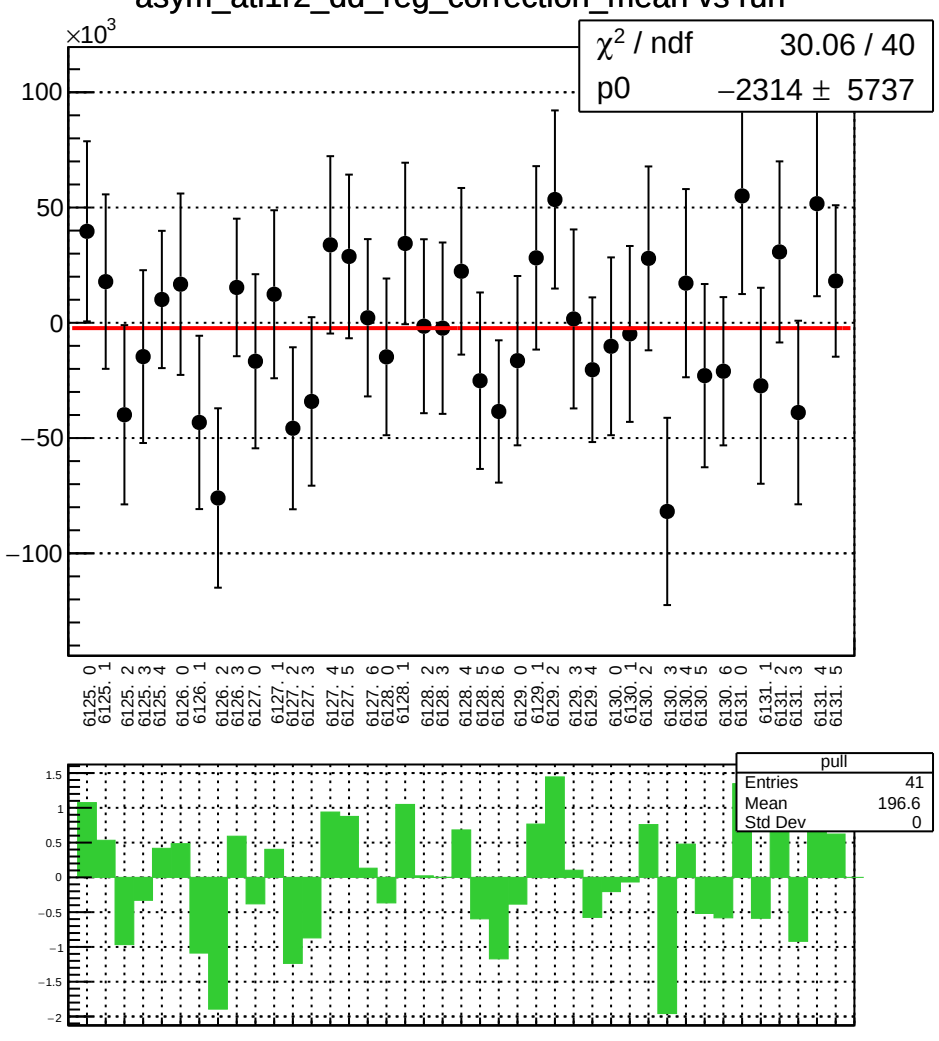

pull1D
Entries 41
Mean 0.04445
Std Dev 1.006

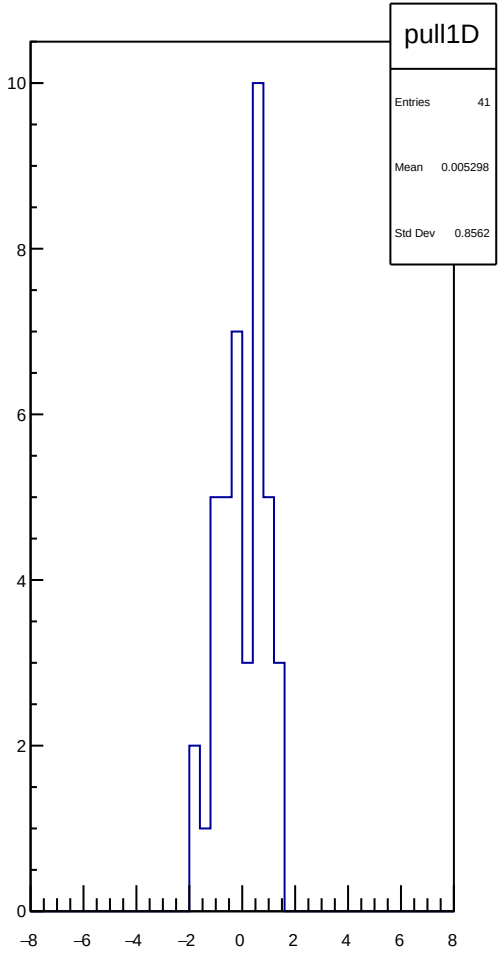

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.609e+05 / 40
p0 1.342e−10 ± 1.82e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

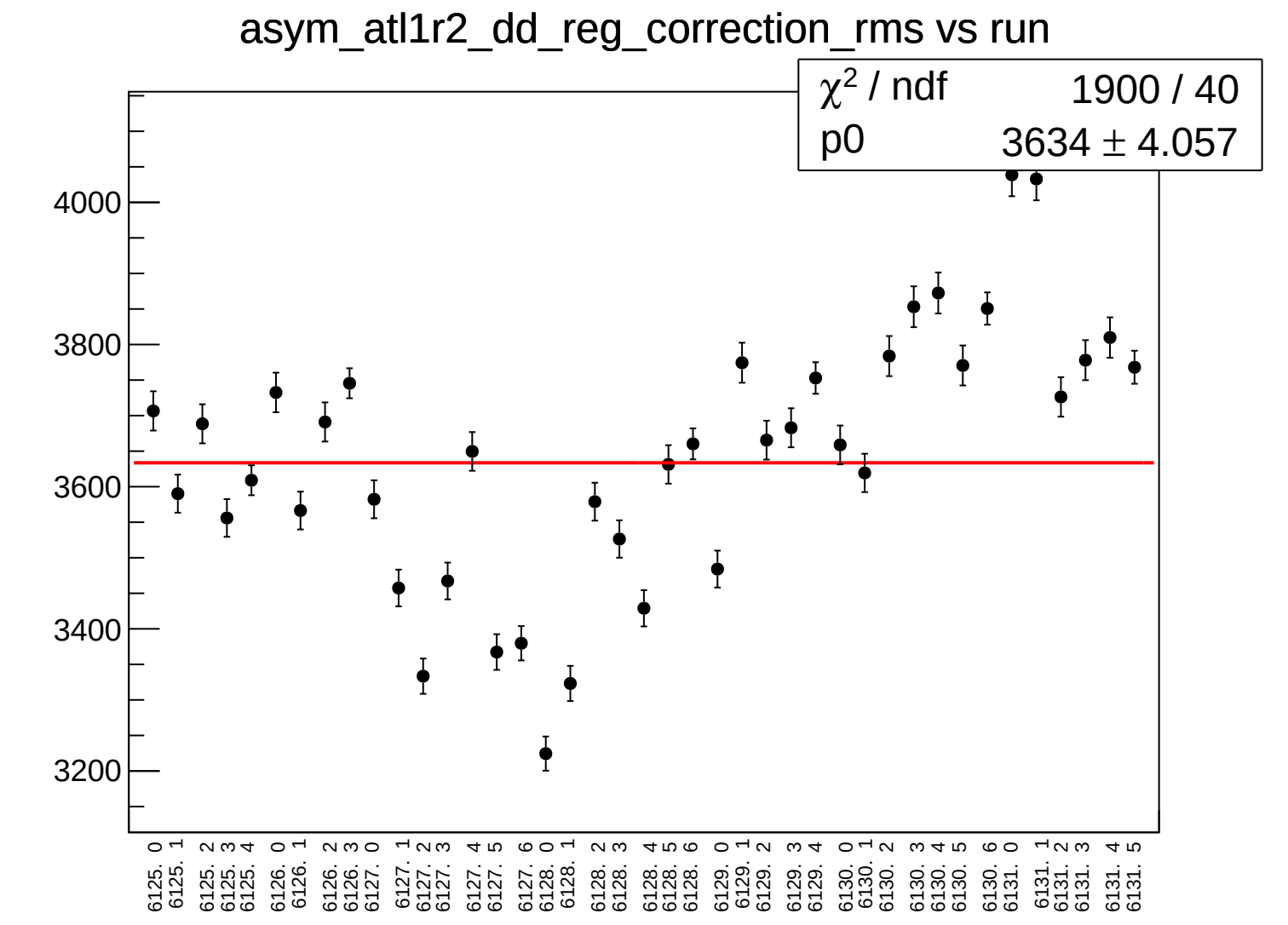

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 37.68 / 40
p0 2530 ± 2768
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 76.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

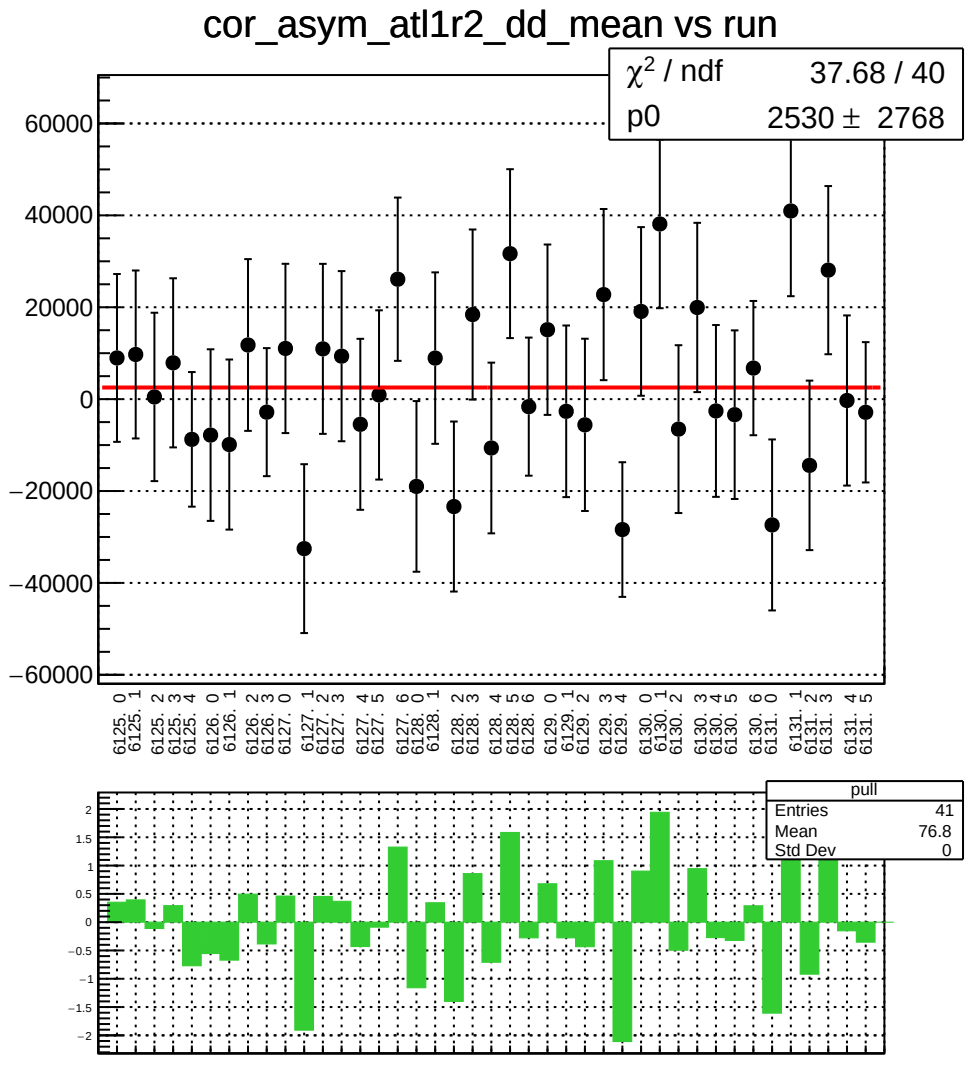

pull1D
Entries 41
Mean 0.02036
Std Dev 0.9584
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

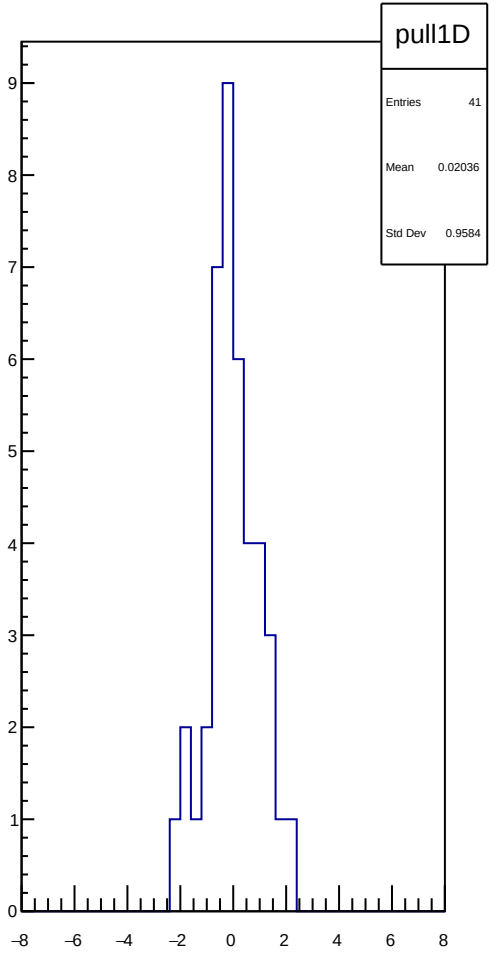

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 45.54 / 40
p0 1755 ± 1.957
1800
1790
1780
1770
1760
1750
1740
1730
1720
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 30.06 / 40
p0 −2314 ± 5737
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 196.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.005298
Std Dev 0.8562
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 1900 / 40
p0 3634 ± 4.057
4000
3800
3600
3400
3200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


cor_asym_atl1r2_dd_mean vs run
χ² / ndf 37.68 / 40
p0 2530 ± 2768
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 76.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.02036
Std Dev 0.9584
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5
4
3
2
1
0
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−6
−4
−2
0
2
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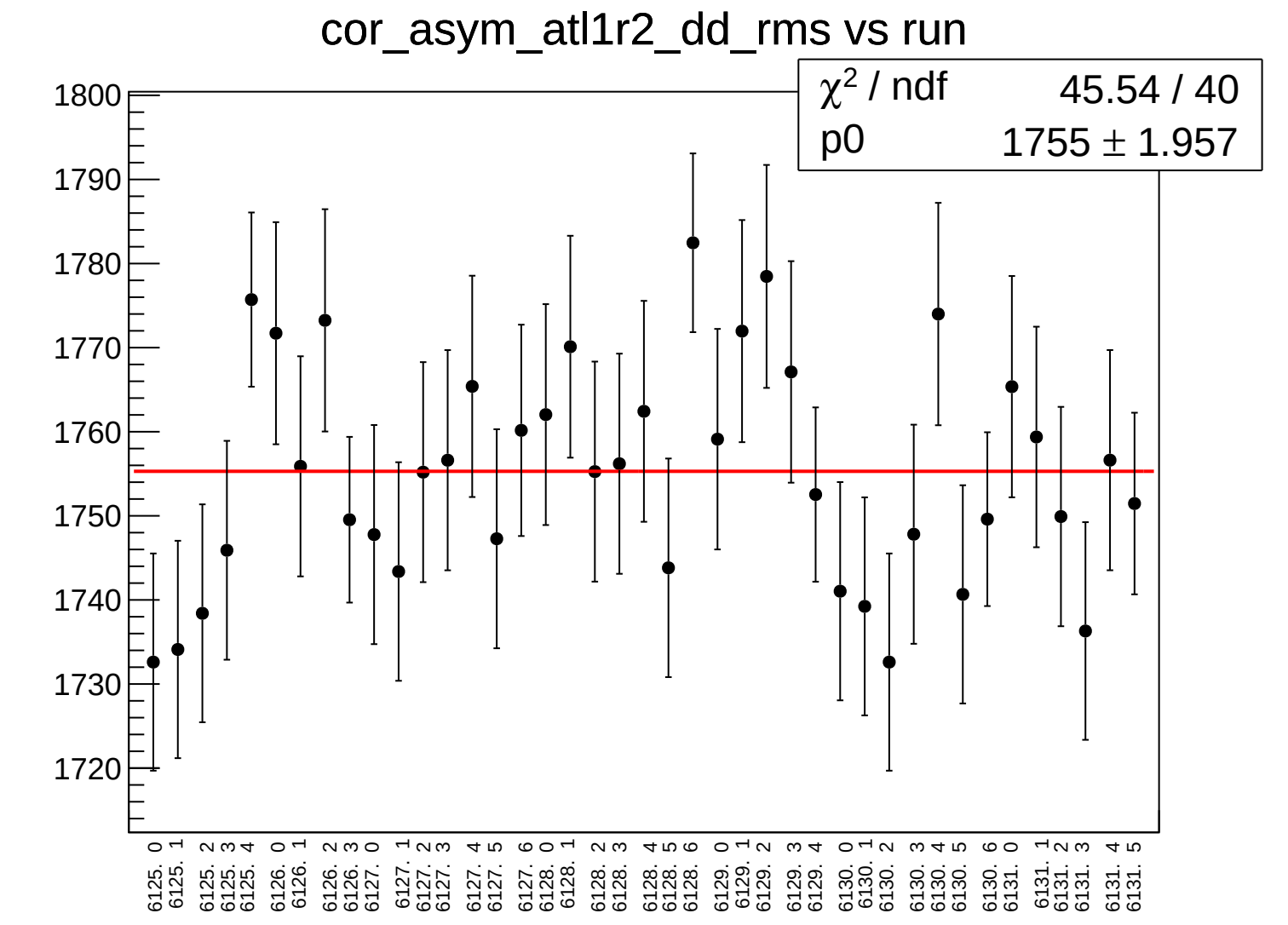
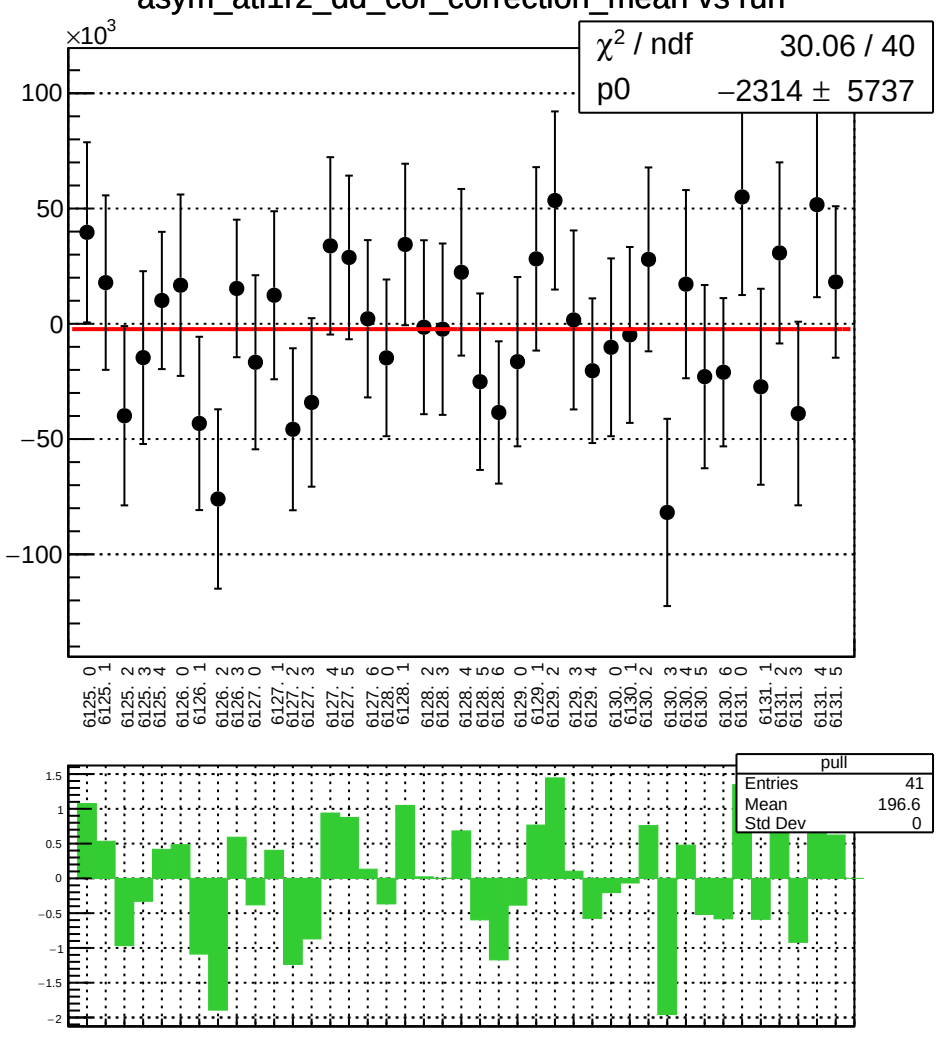
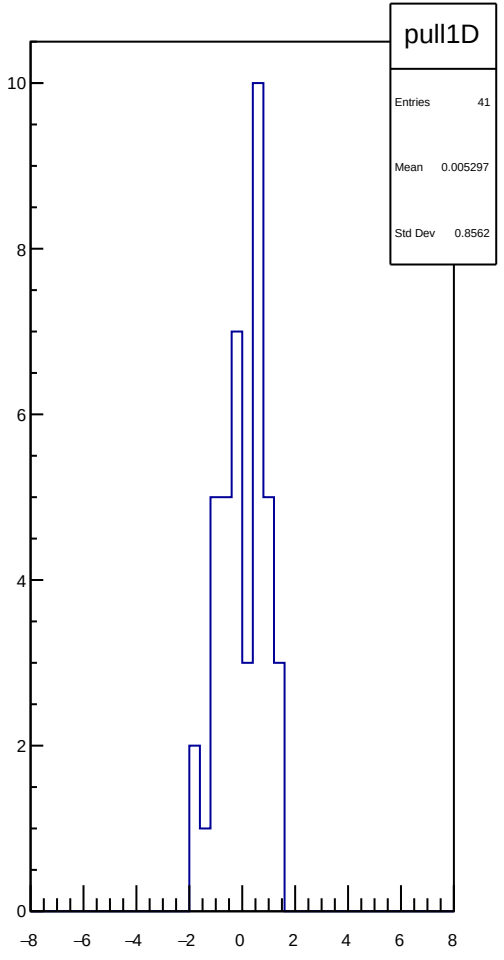
6
8


cor_asym_atl1r2_dd_rms vs run
χ² / ndf 45.54 / 40
p0 1755 ± 1.957
1800
1790
1780
1770
1760
1750
1740
1730
1720
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 30.06 / 40
p0 −2314 ± 5737
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 196.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.005297
Std Dev 0.8562
10
8
6
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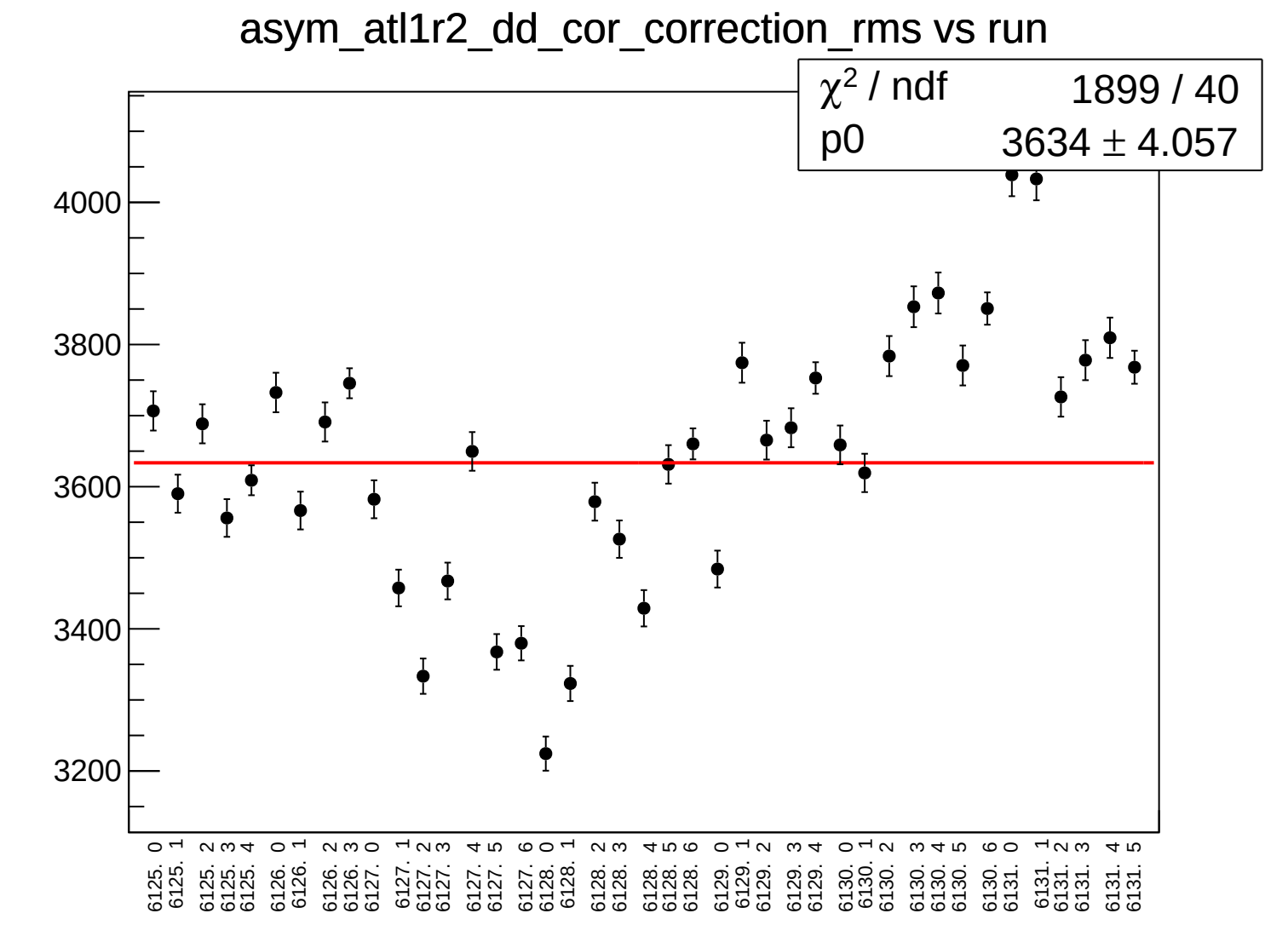
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 1899 / 40
p0 3634 ± 4.057
4000
3800
3600
3400
3200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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6130. 5
6130. 6
6131. 0
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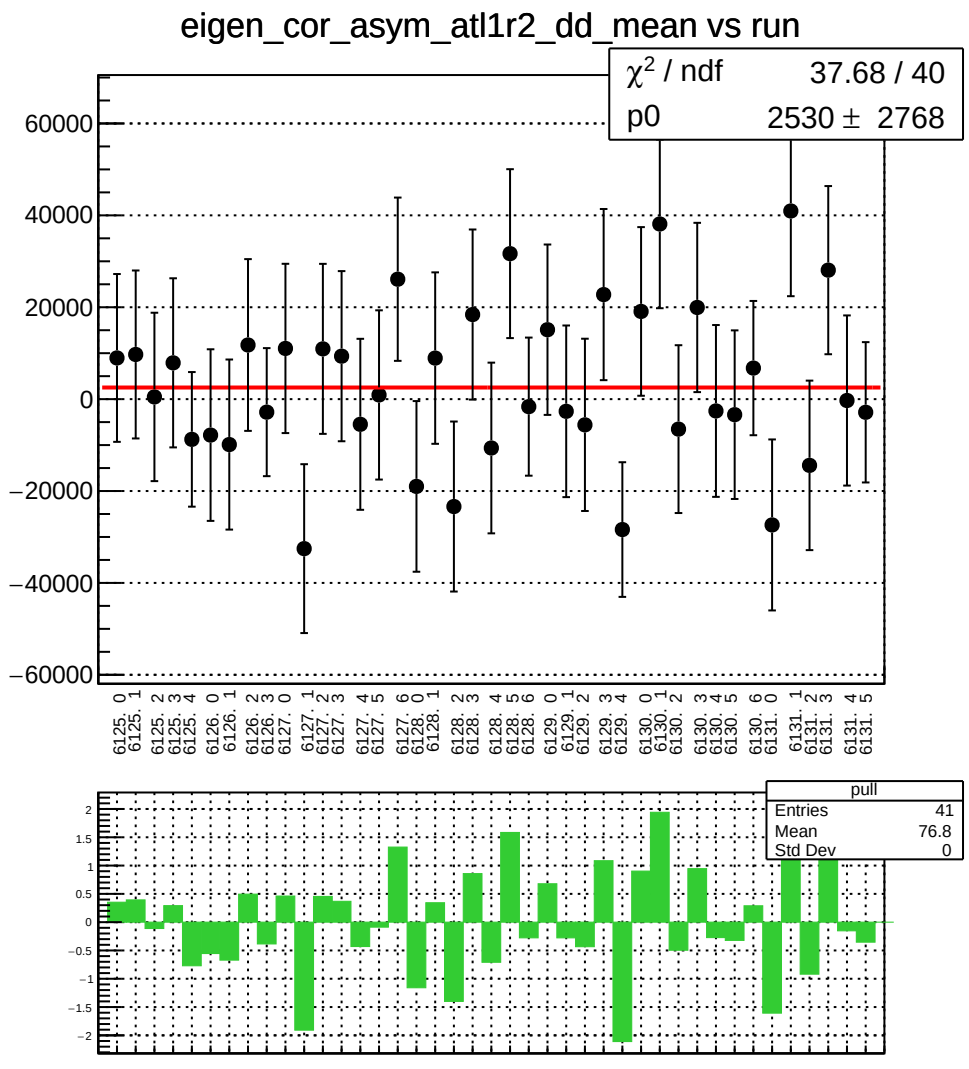
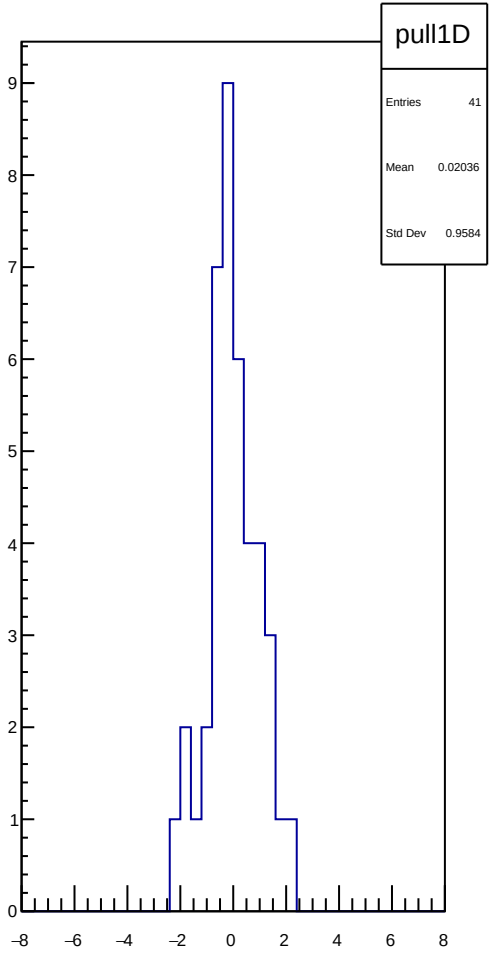
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 37.68 / 40
p0 2530 ± 2768
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 76.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.02036
Std Dev 0.9584
9
8
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5
4
3
2
1
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−8
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−4
−2
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2
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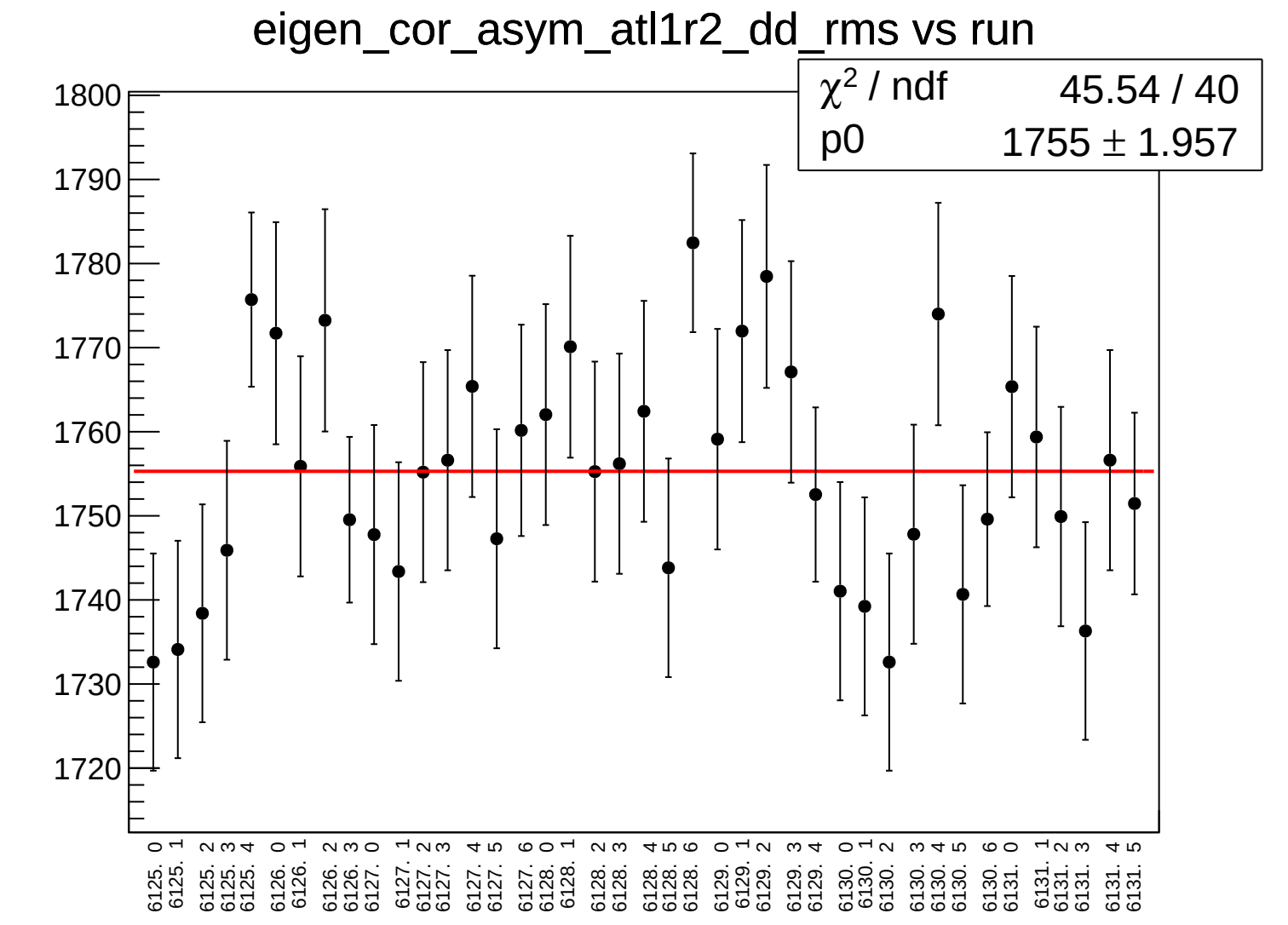
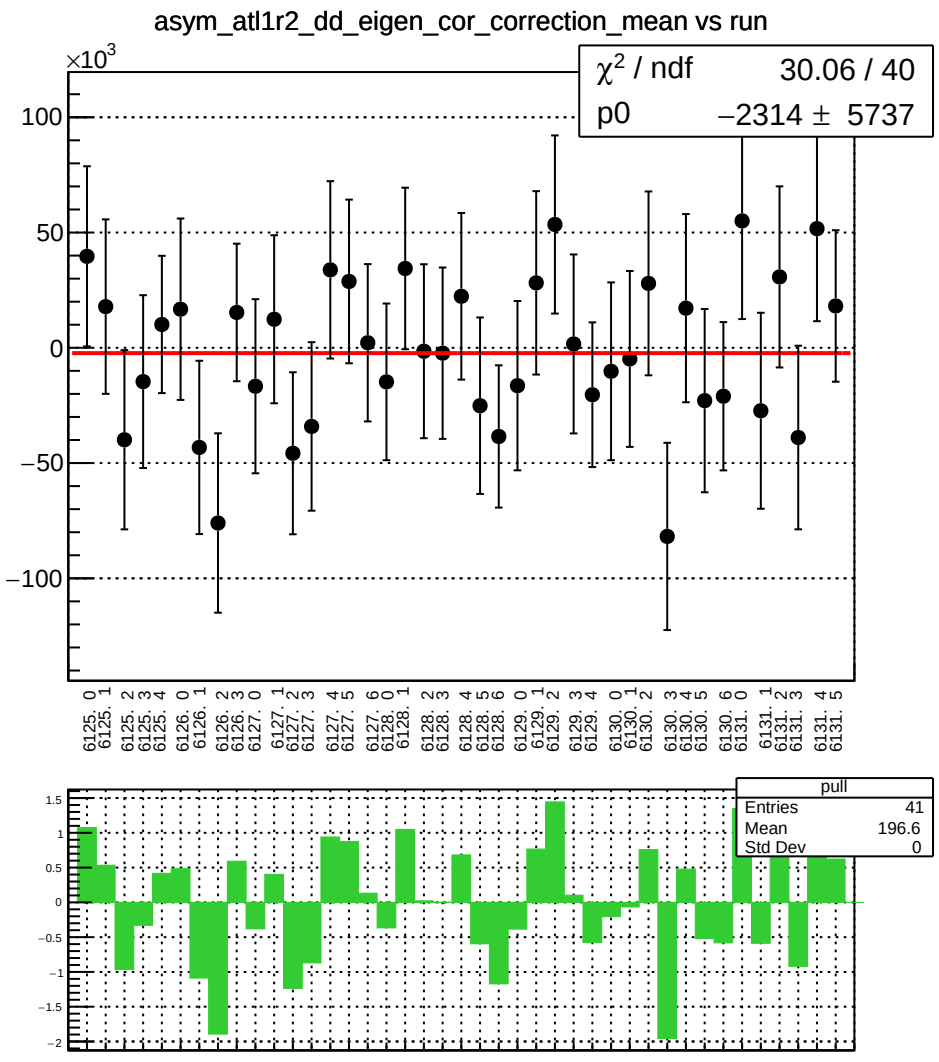
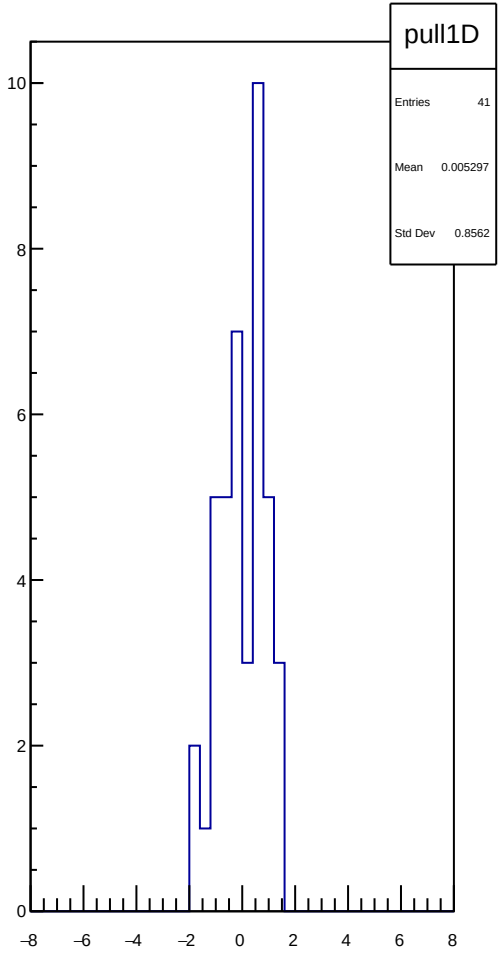
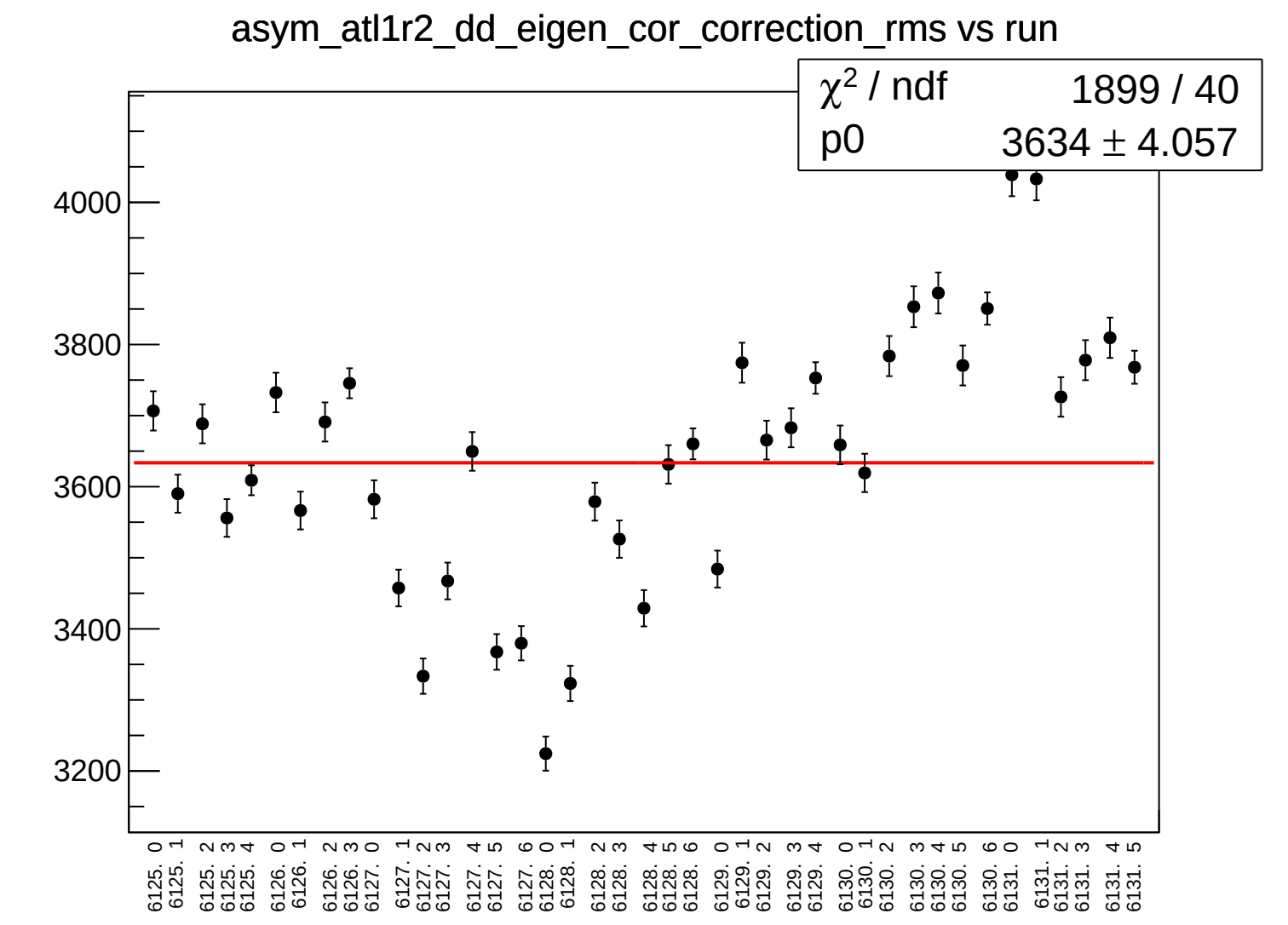

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 45.54 / 40
p0 1755 ± 1.957
1800
1790
1780
1770
1760
1750
1740
1730
1720
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 30.06 / 40
p0 −2314 ± 5737
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 196.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.005297
Std Dev 0.8562
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1899 / 40
p0 3634 ± 4.057
4000
3800
3600
3400
3200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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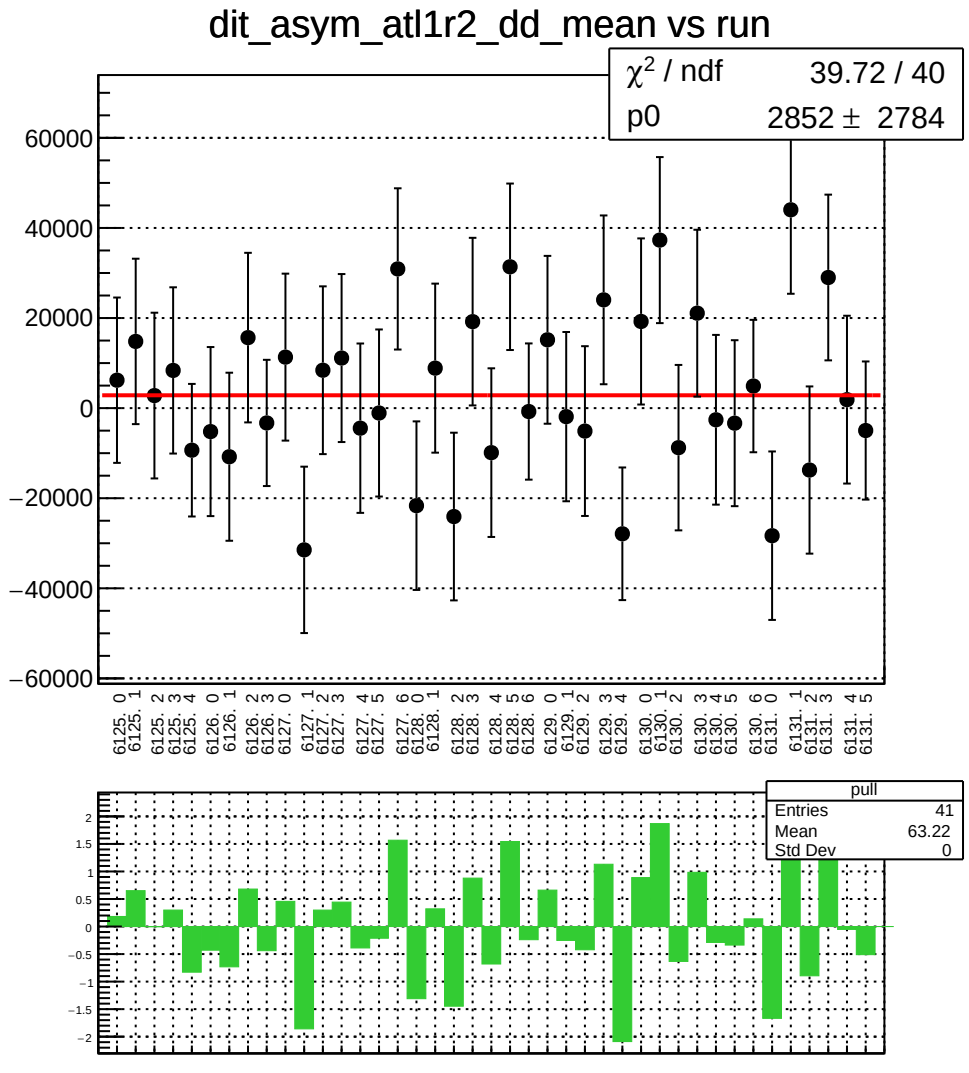
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


dit_asym_atl1r2_dd_mean vs run
χ² / ndf 39.72 / 40
p0 2852 ± 2784
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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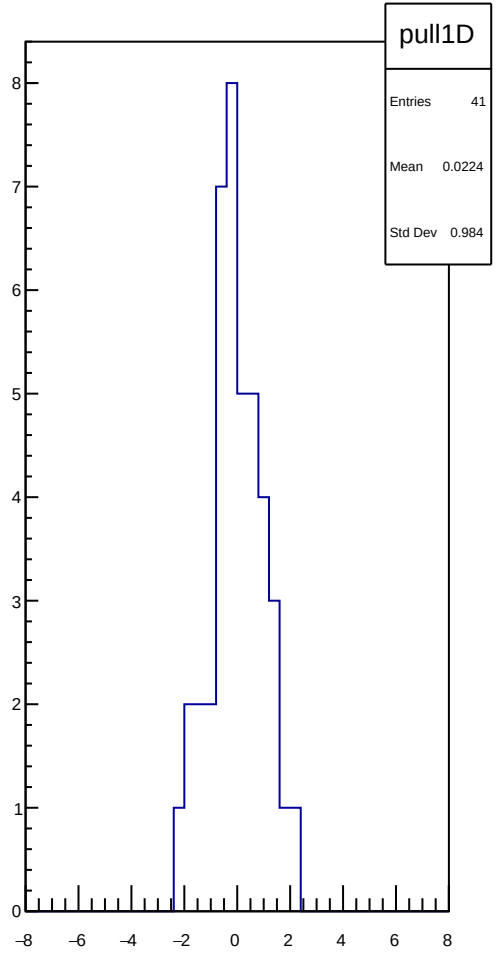
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 63.22
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.0224
Std Dev 0.984
8
7
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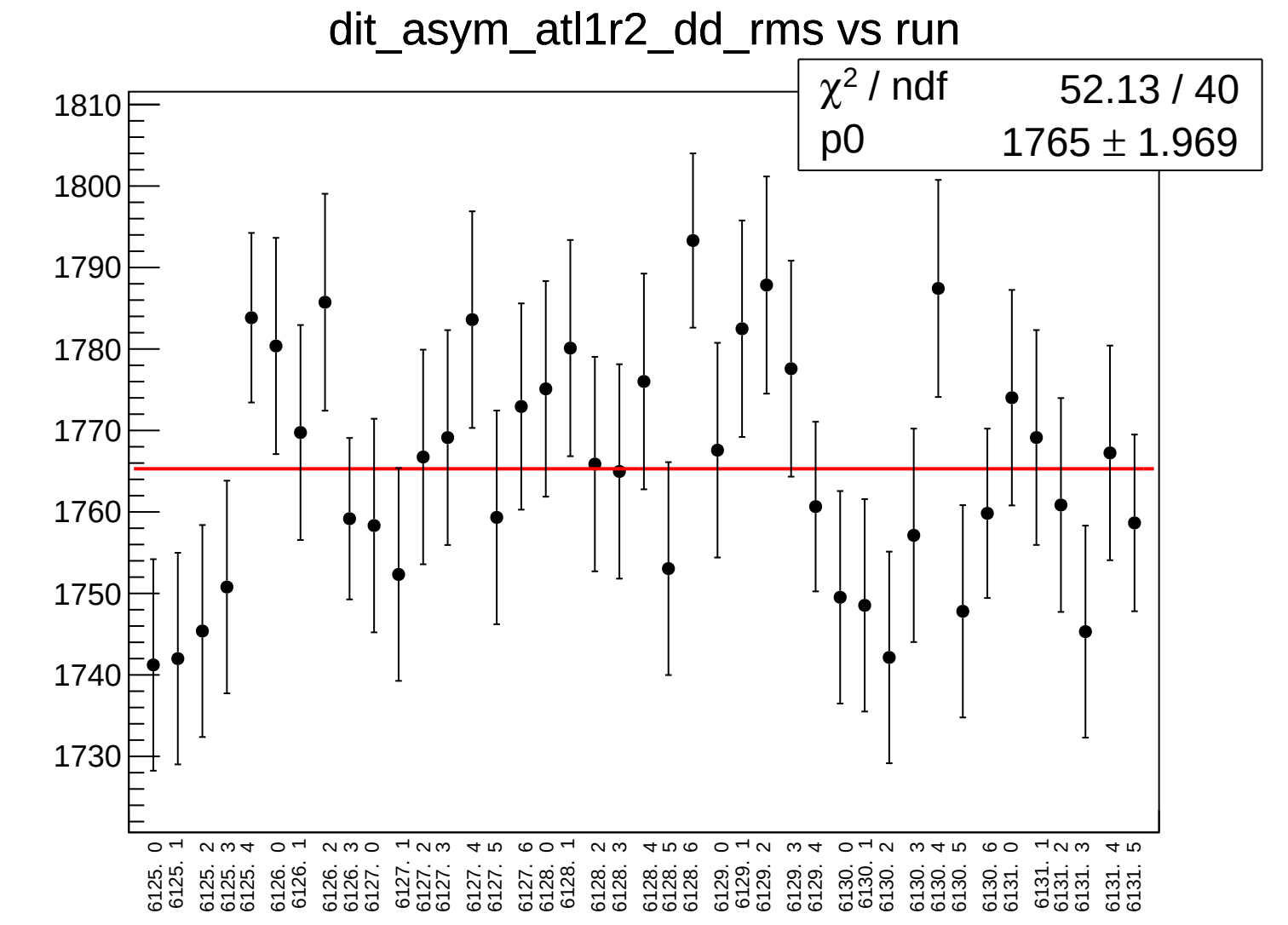
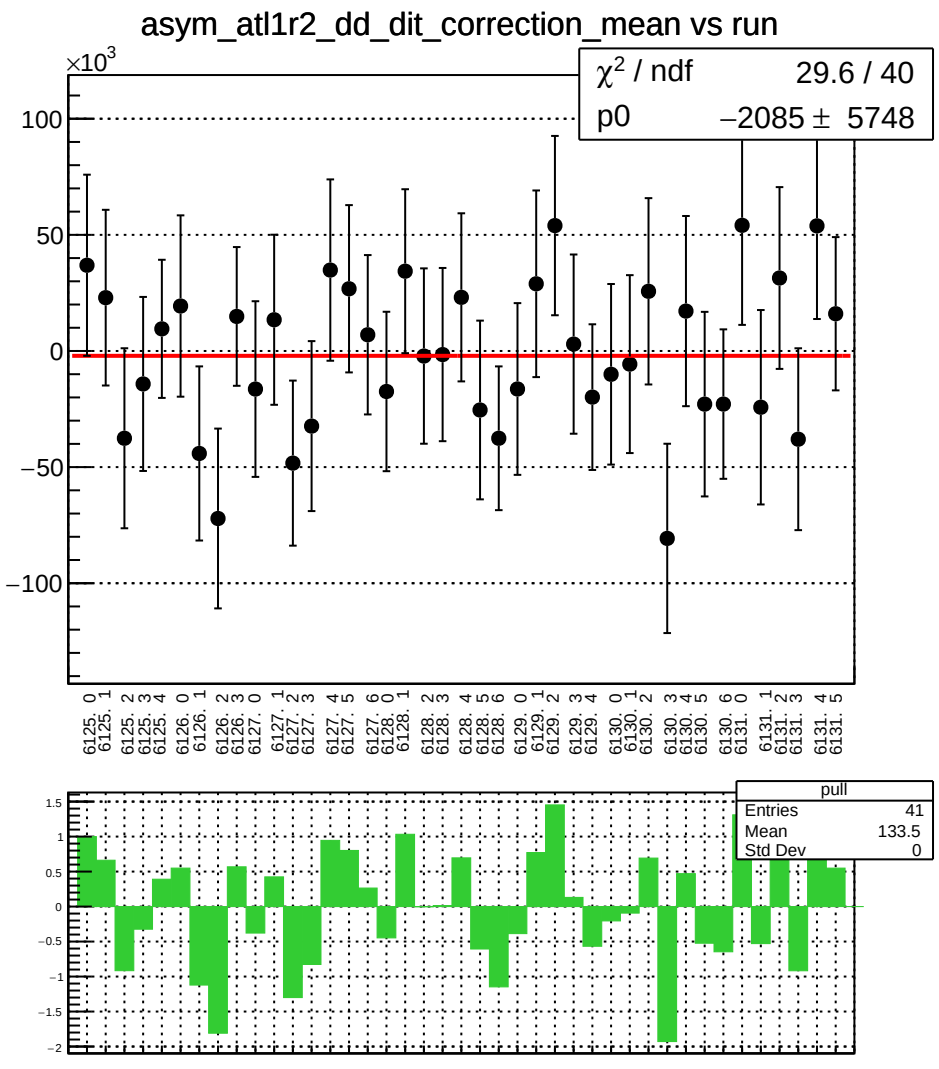
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl1r2_dd_rms vs run
χ² / ndf 52.13 / 40
p0 1765 ± 1.969
1810
1800
1790
1780
1770
1760
1750
1740
1730
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 29.6 / 40
p0 −2085 ± 5748
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
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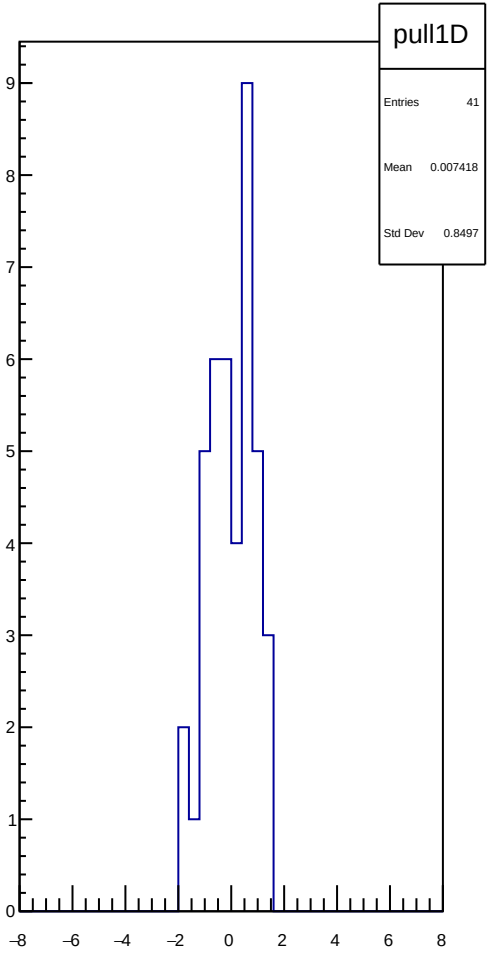
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 133.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.007418
Std Dev 0.8497
9
8
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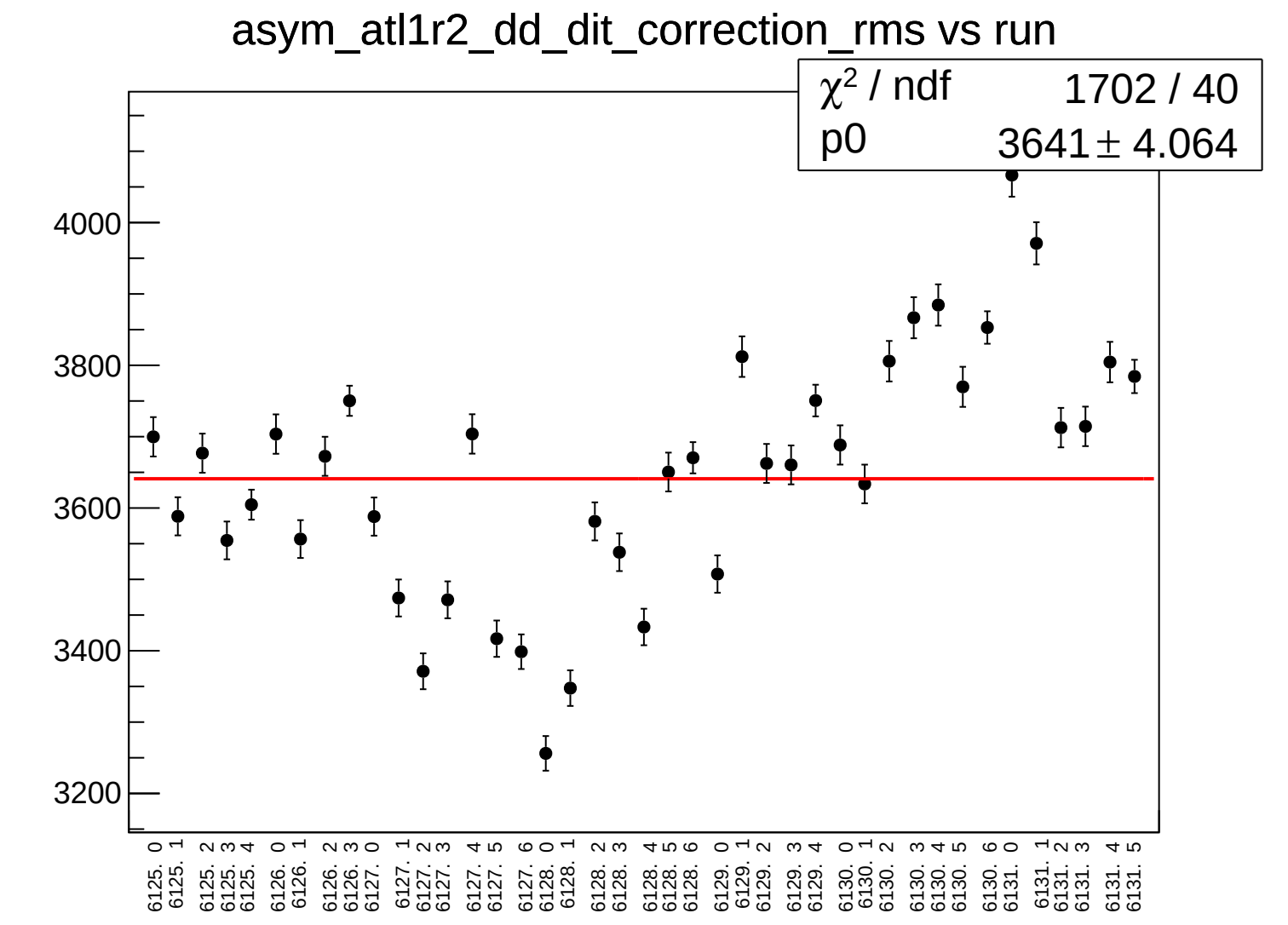
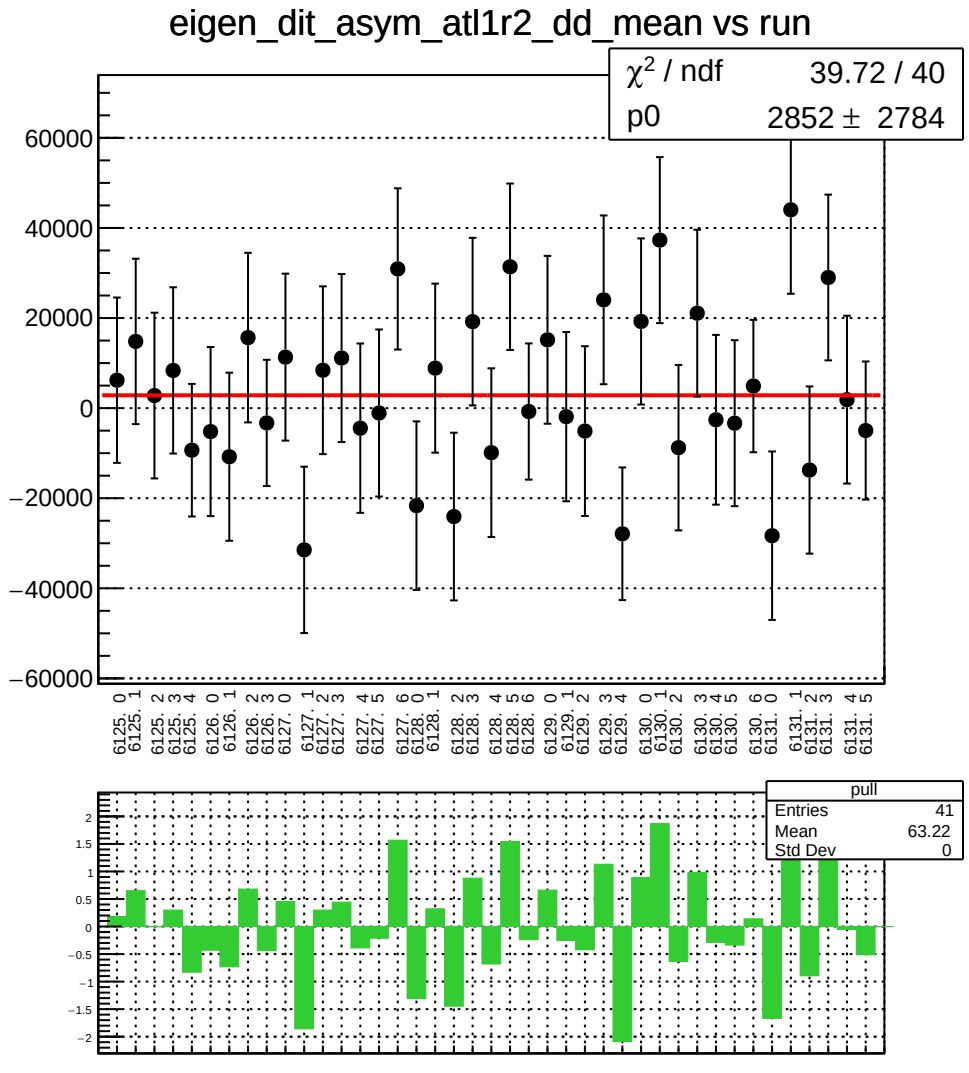
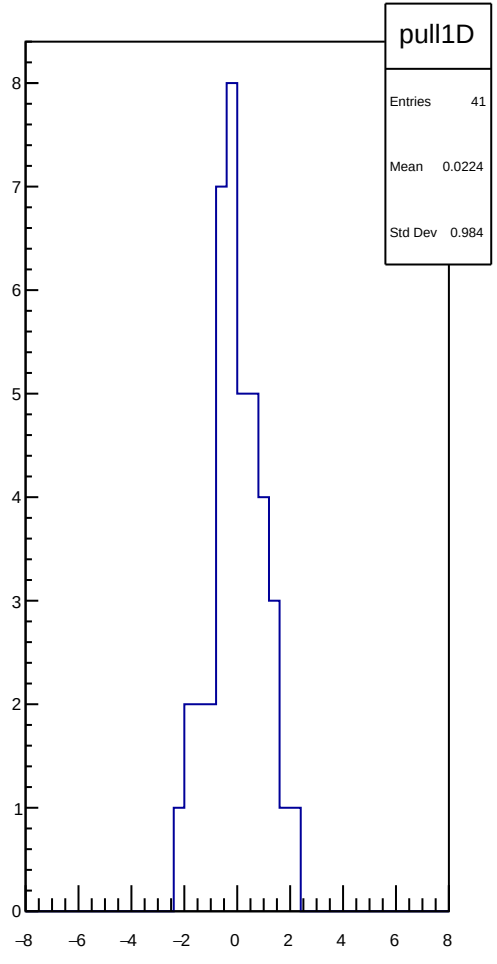
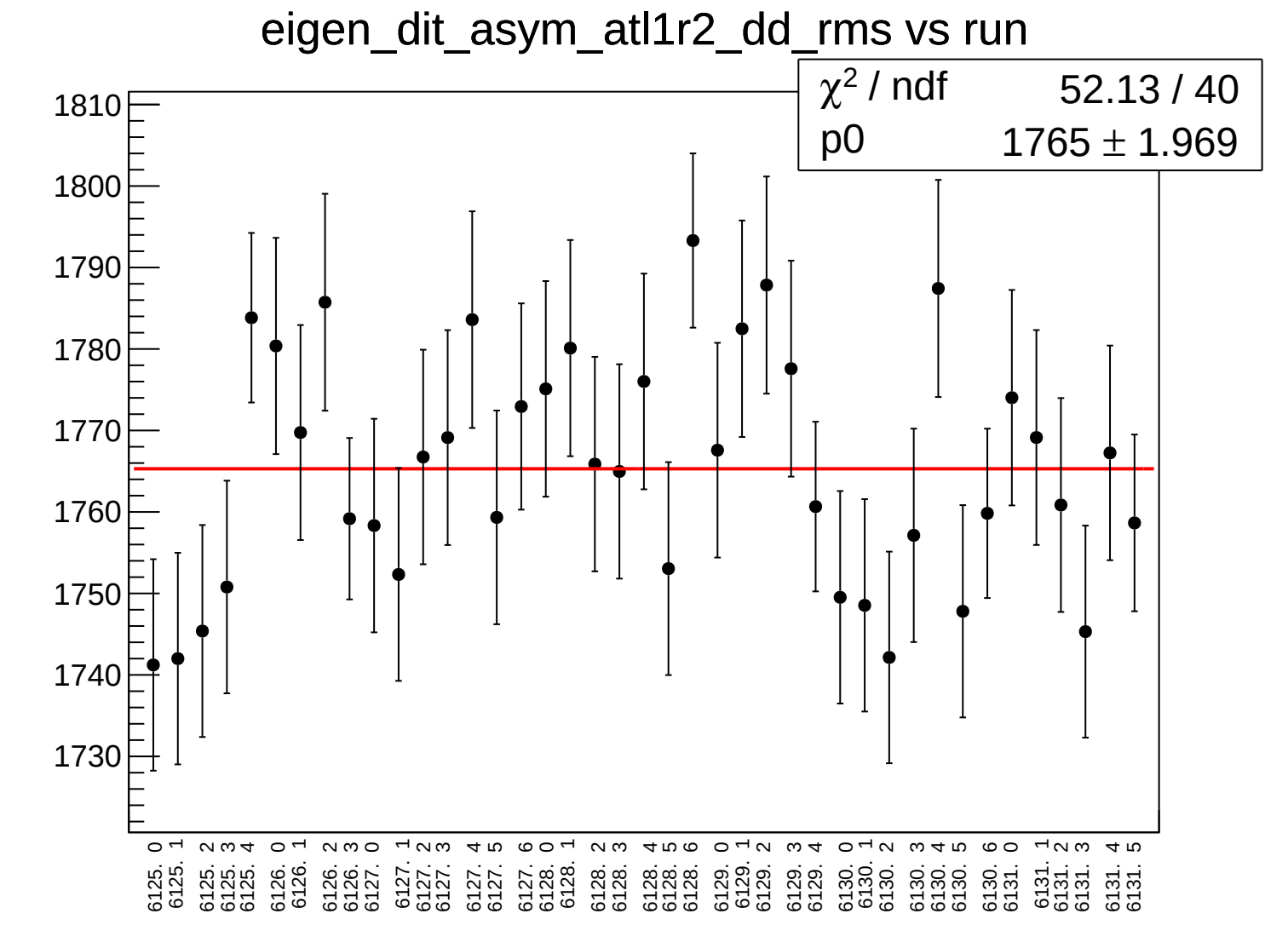
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 1702 / 40
p0 3641 ± 4.064
4000
3800
3600
3400
3200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 39.72 / 40
p0 2852 ± 2784
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 63.22
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.0224
Std Dev 0.984
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 52.13 / 40
p0 1765 ± 1.969
1810
1800
1790
1780
1770
1760
1750
1740
1730
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
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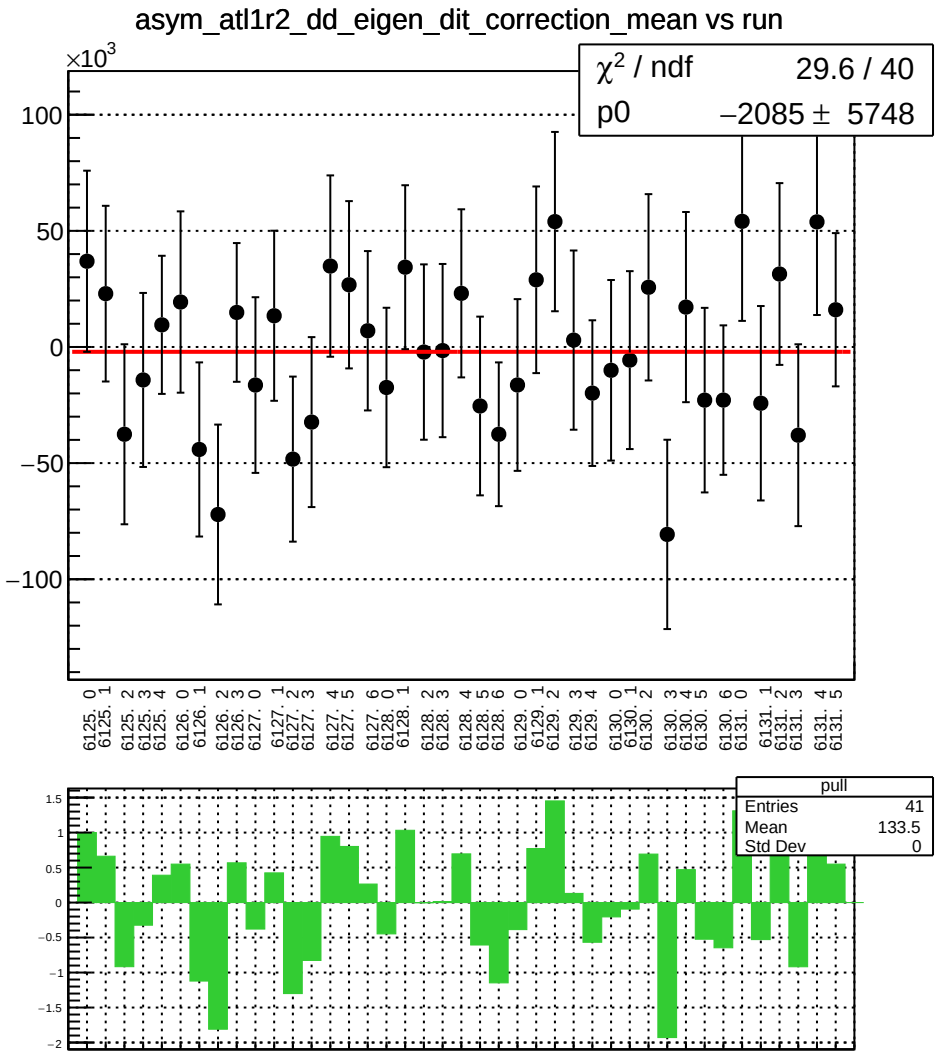
6131. 4
6131. 5


asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 29.6 / 40
p0 −2085 ± 5748
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
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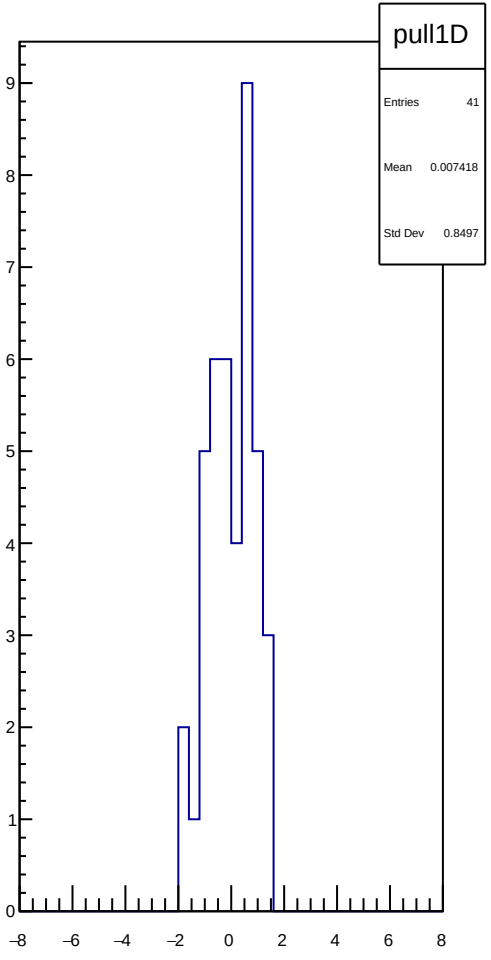
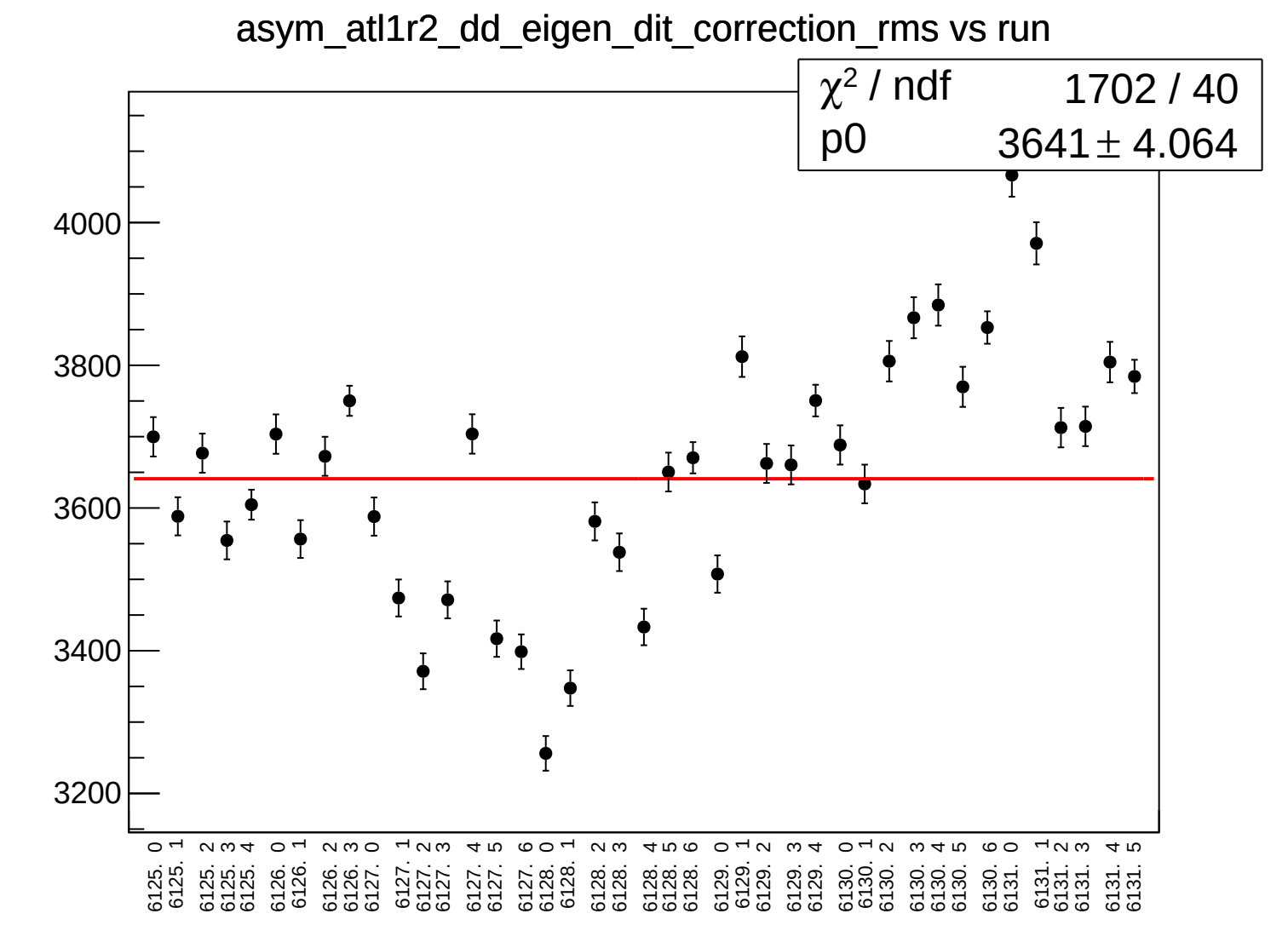
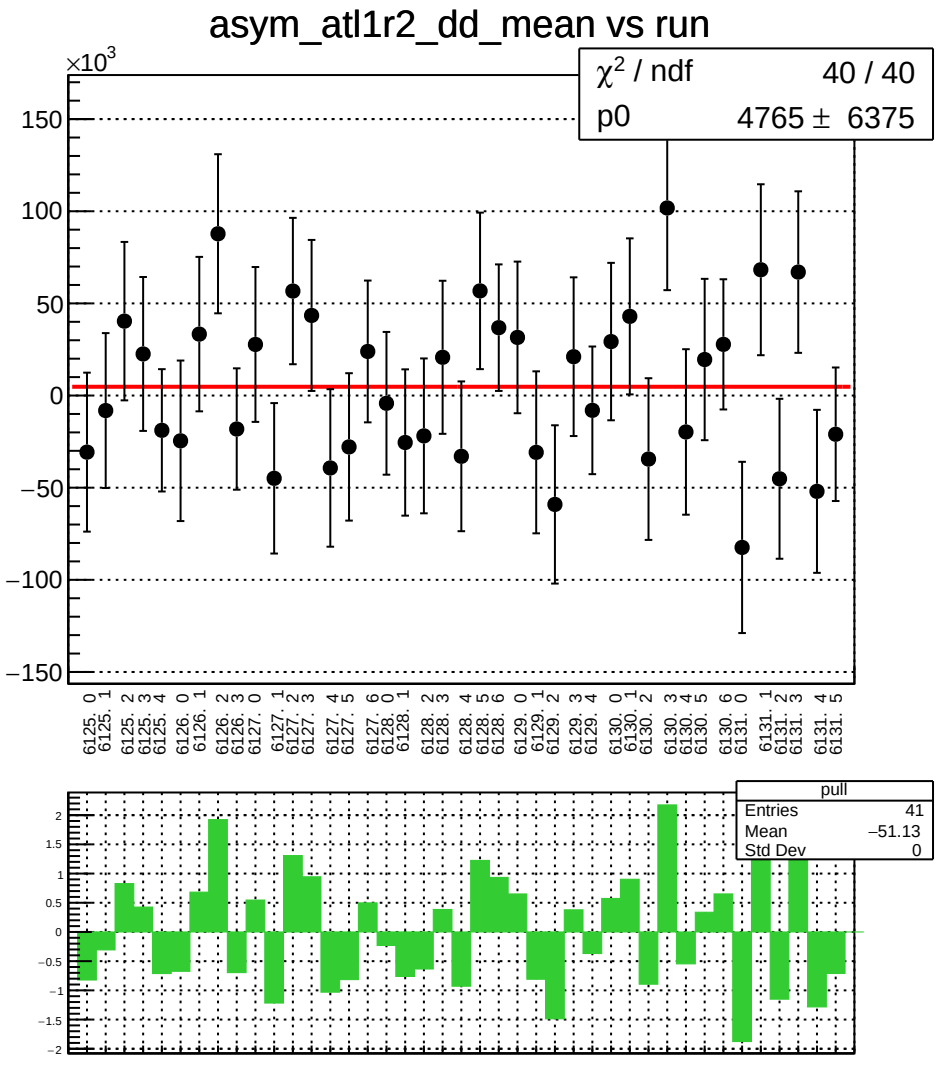
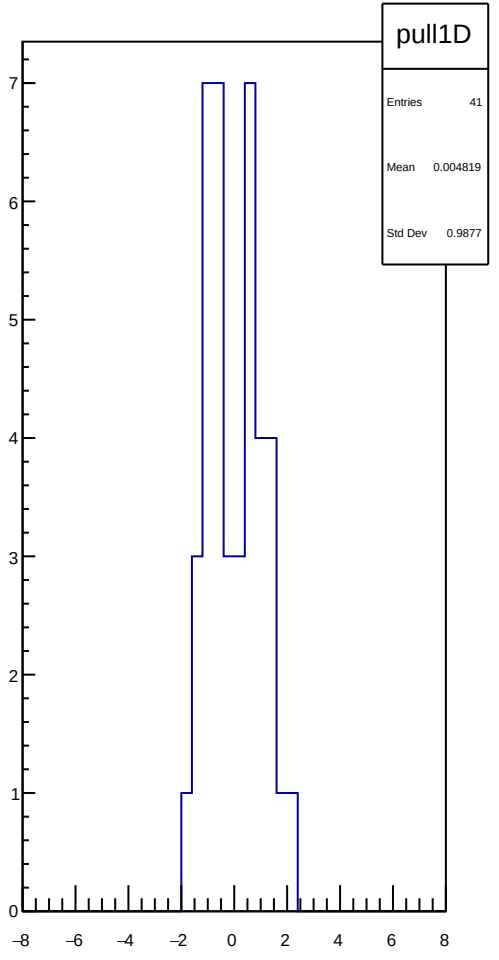
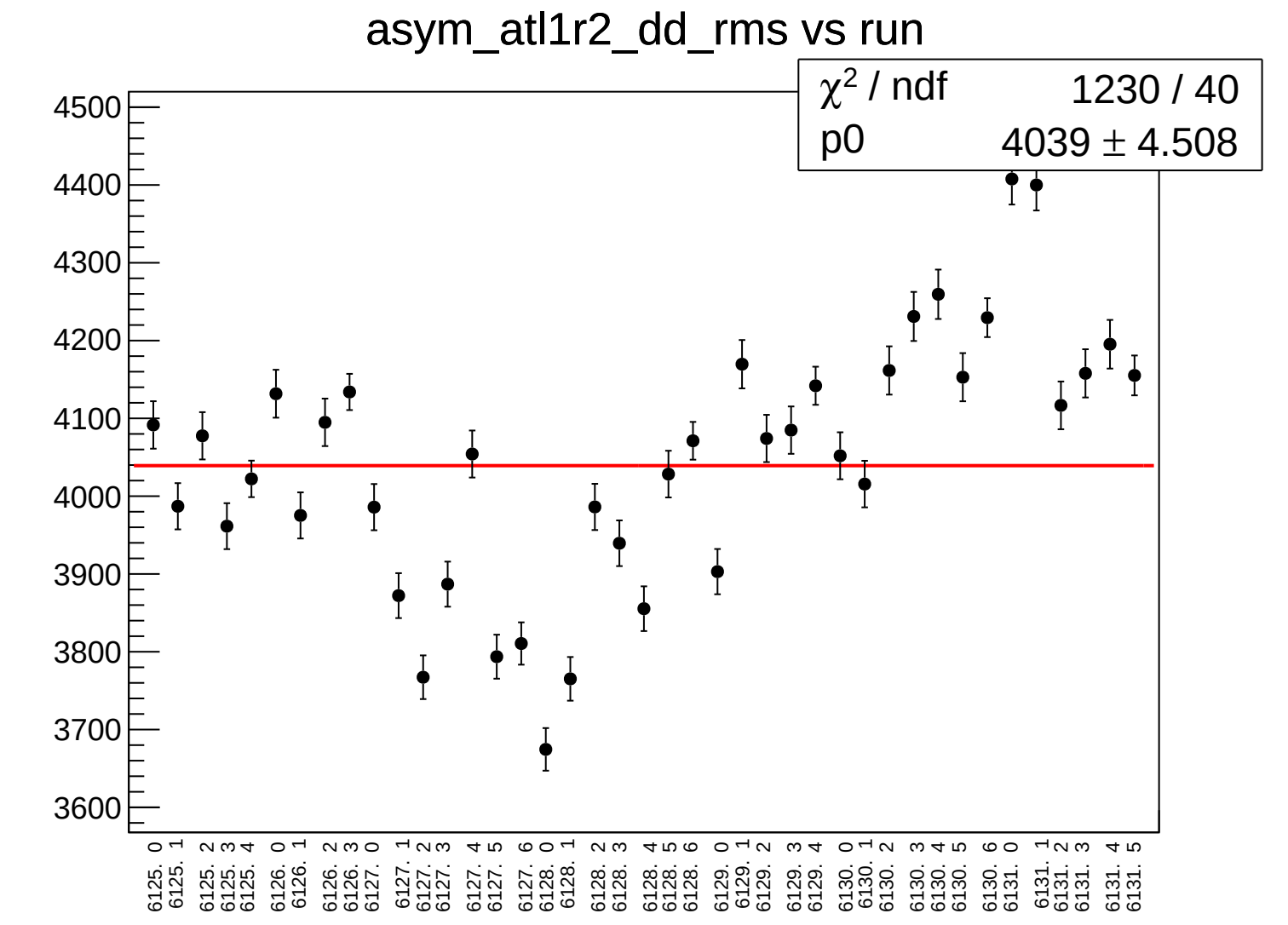
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 133.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

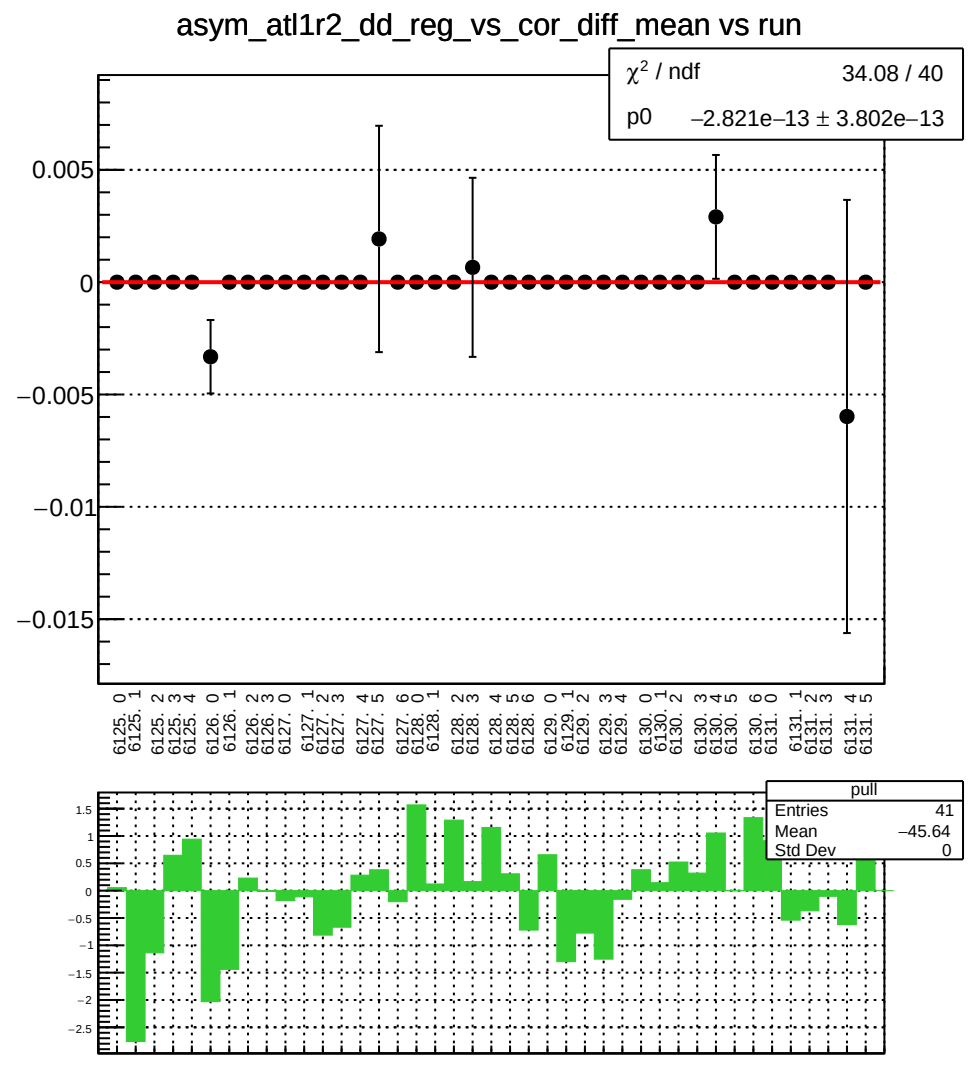

pull1D
Entries 41
Mean 0.007418
Std Dev 0.8497
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

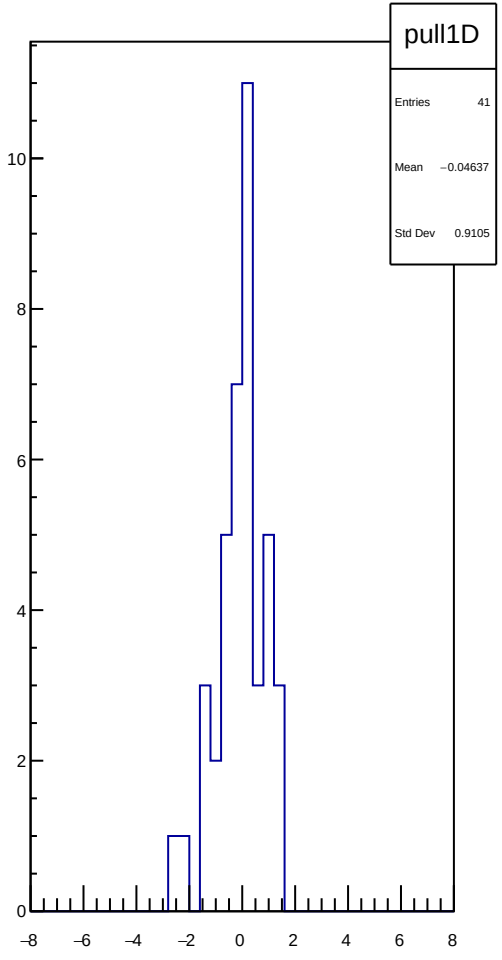

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1702 / 40
p0 3641 ± 4.064
4000
3800
3600
3400
3200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

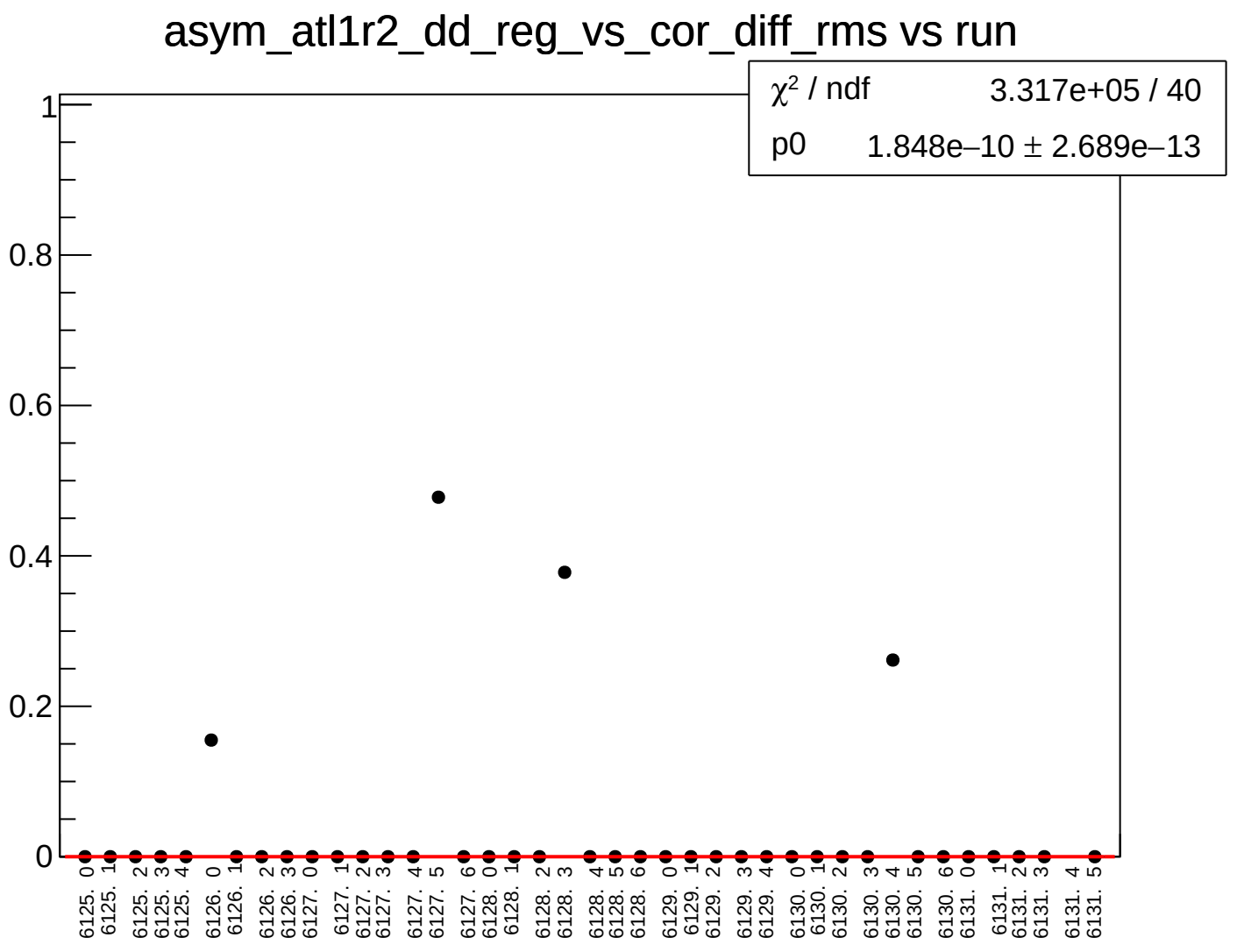

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 40 / 40
p0 4765 ± 6375
150
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −51.13
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

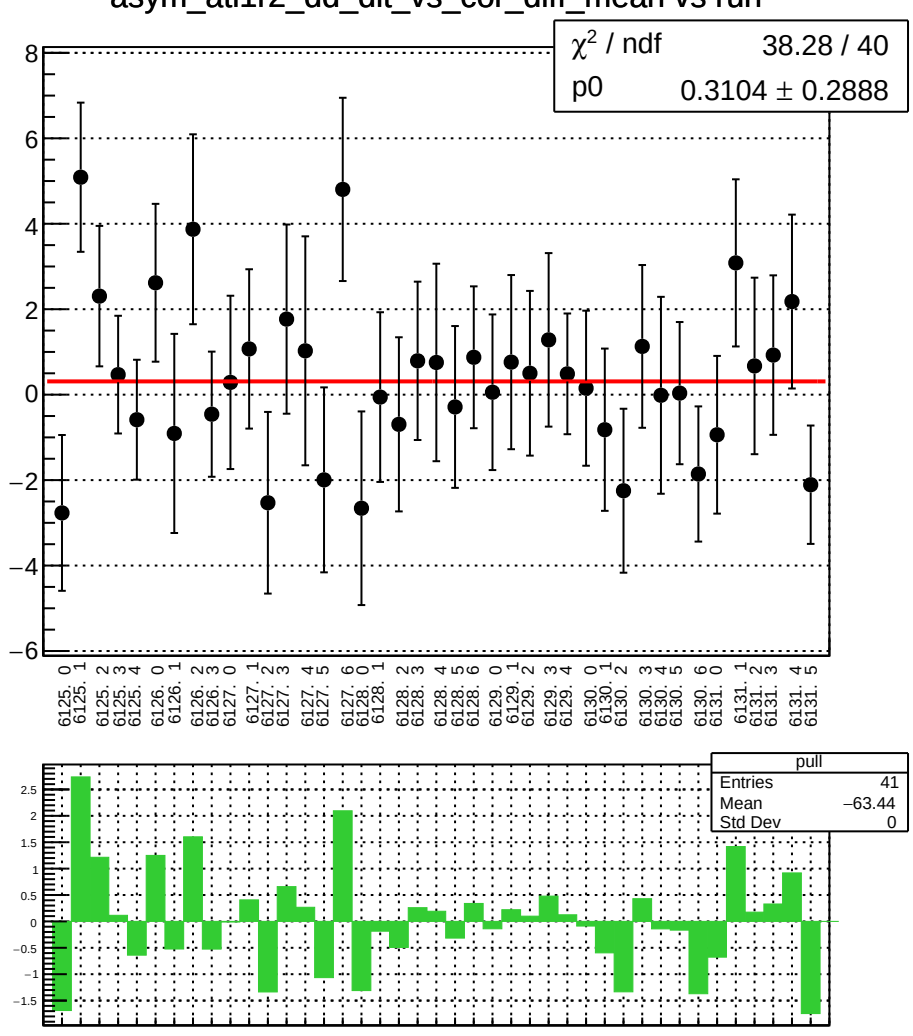

pull1D
Entries 41
Mean 0.004819
Std Dev 0.9877
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

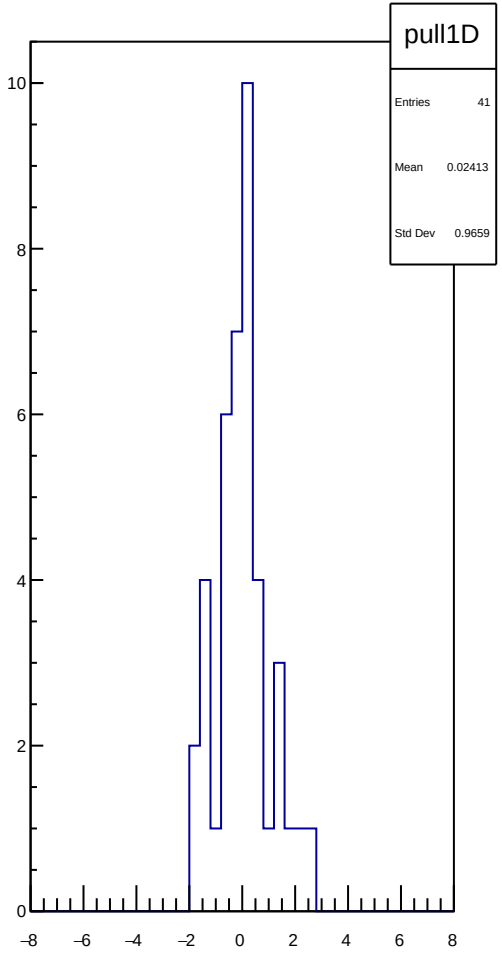

asym_atl1r2_dd_rms vs run
χ² / ndf 1230 / 40
p0 4039 ± 4.508
4500
4400
4300
4200
4100
4000
3900
3800
3700
3600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

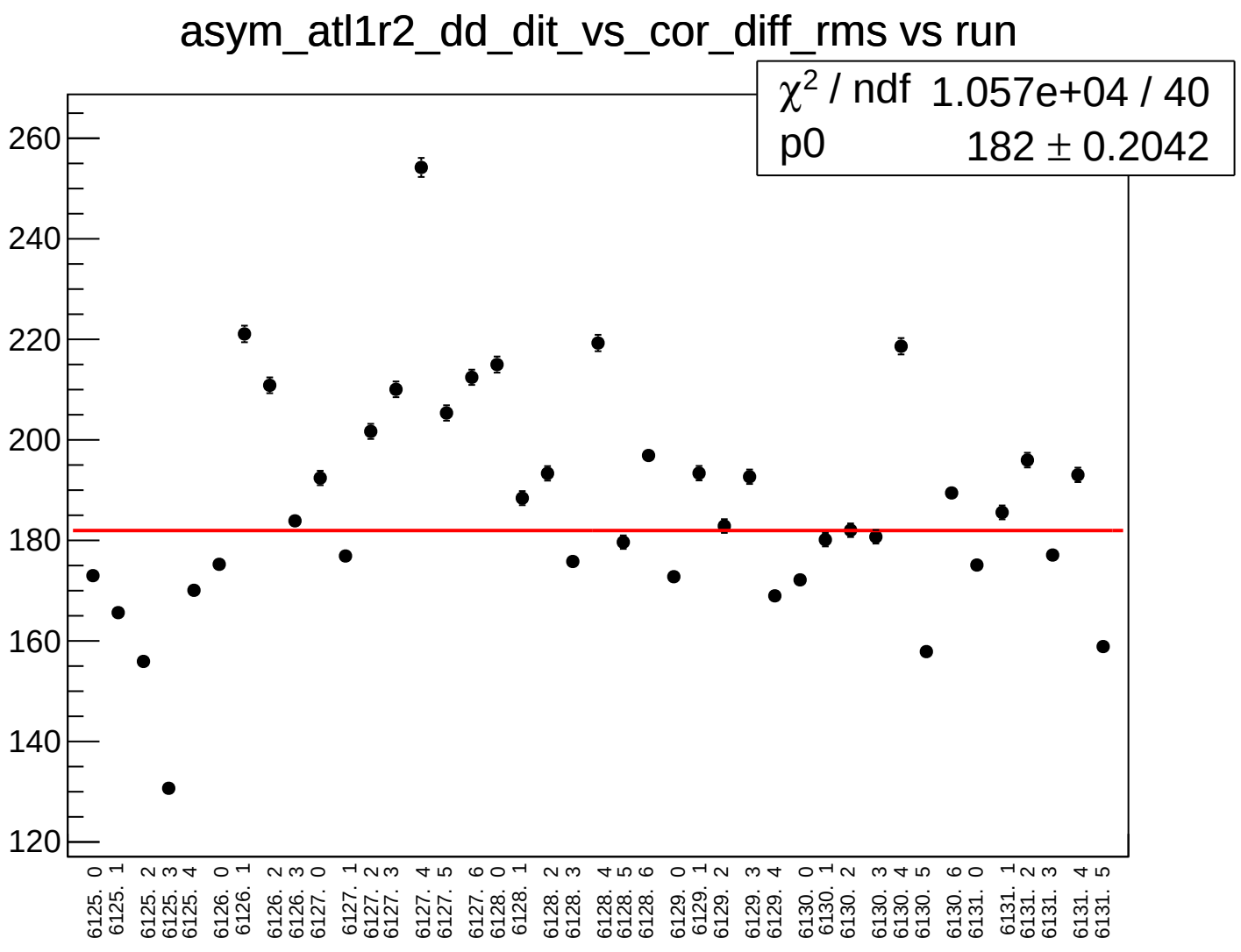

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 34.08 / 40
p0 −2.821e−13 ± 3.802e−13
0.005
0
−0.005
−0.01
−0.015
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −45.64
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

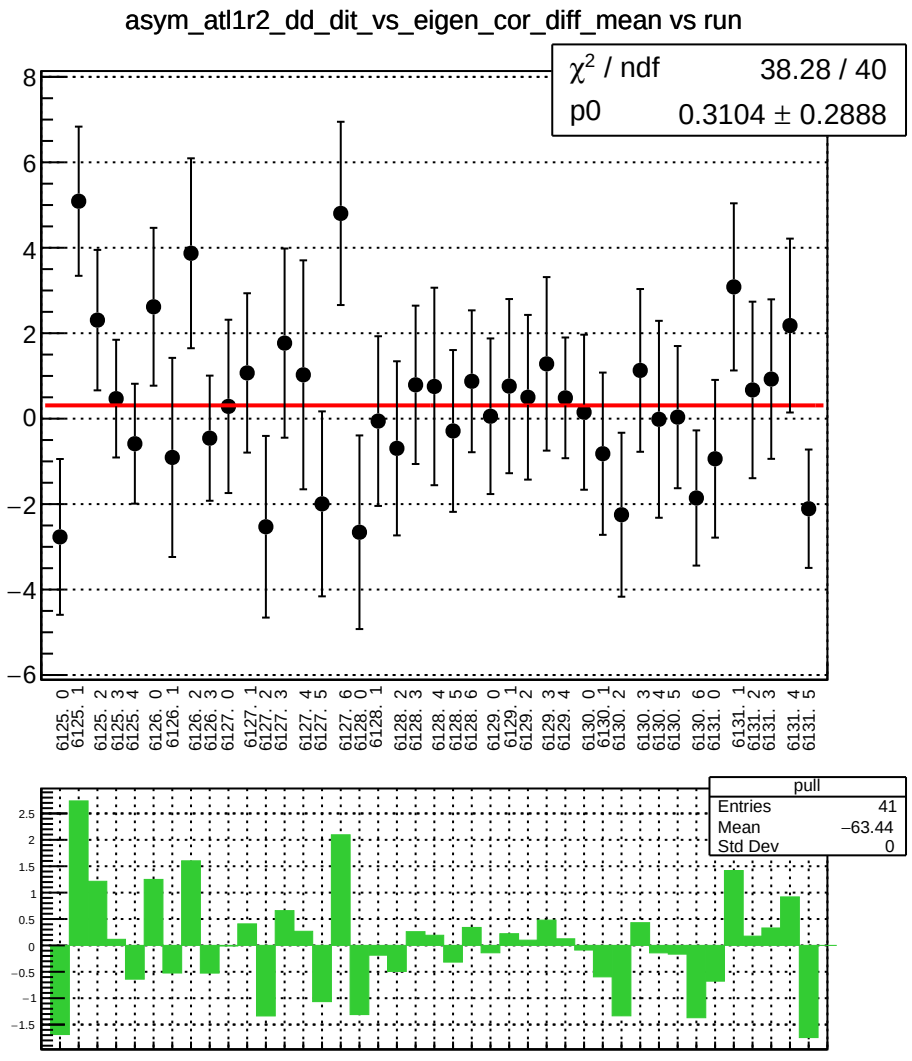

pull1D
Entries 41
Mean −0.04637
Std Dev 0.9105
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

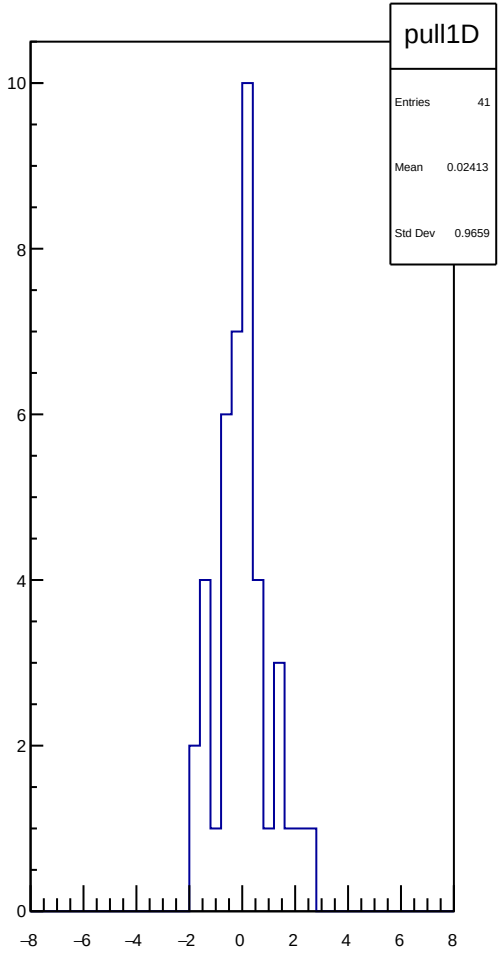

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.317e+05 / 40
p0 1.848e−10 ± 2.689e−13
1
0.8
0.6
0.4
0.2
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

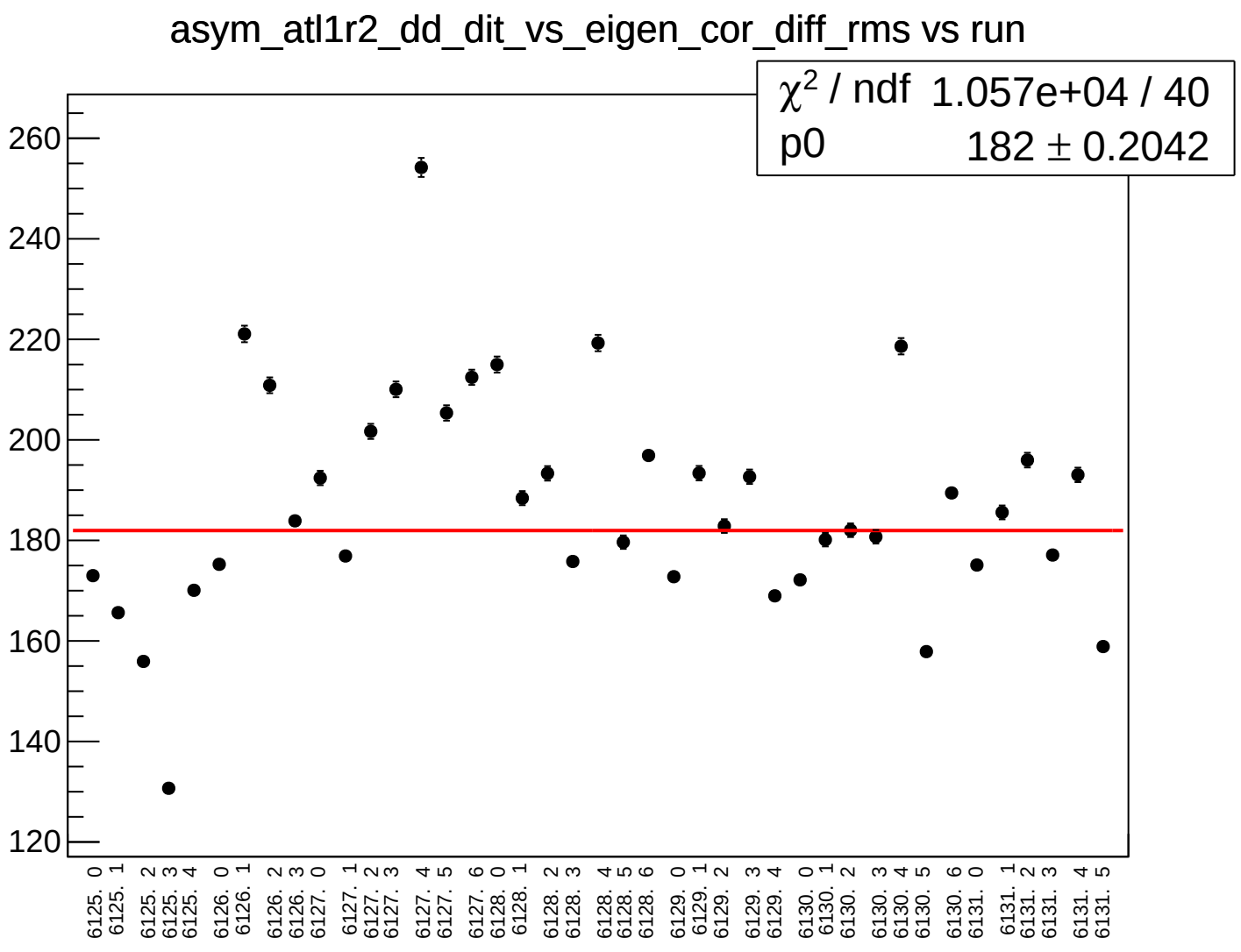

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 38.28 / 40
p0 0.3104 ± 0.2888
pull
Entries 41
Mean −63.44
Std Dev 0

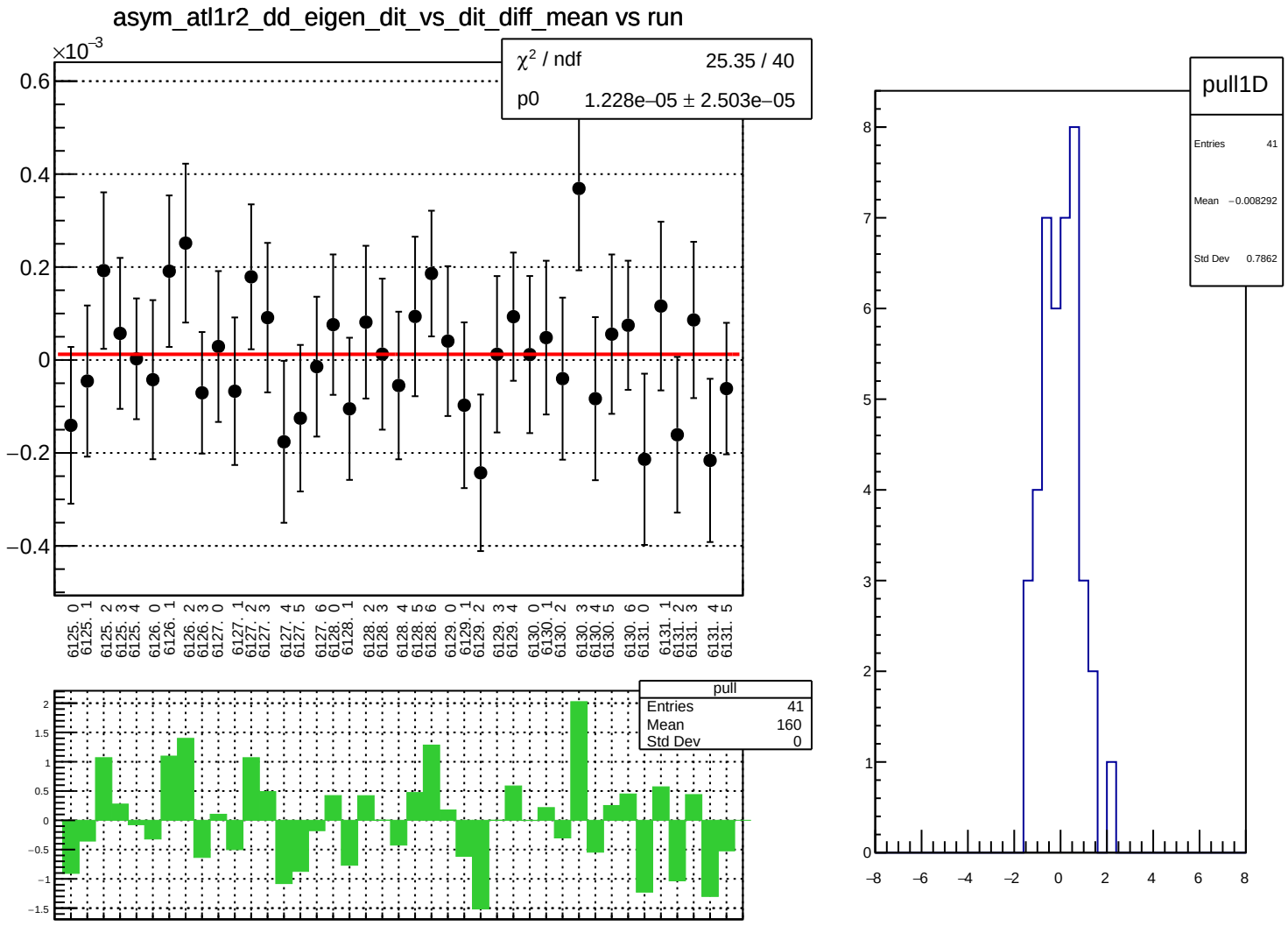

pull1D
Entries 41
Mean 0.02413
Std Dev 0.9659

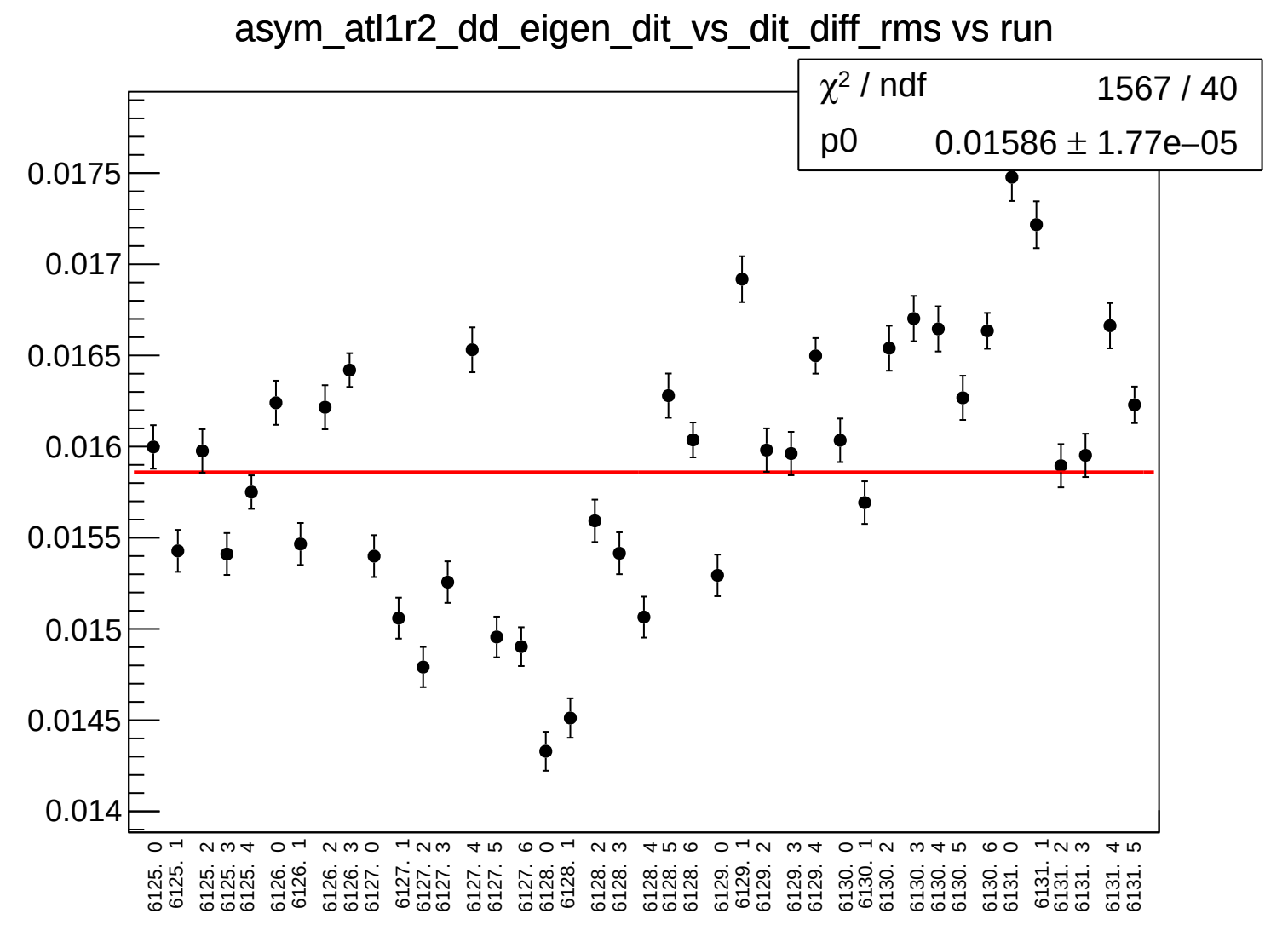

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.057e+04 / 40
p0 182 ± 0.2042
260
240
220
200
180
160
140
120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

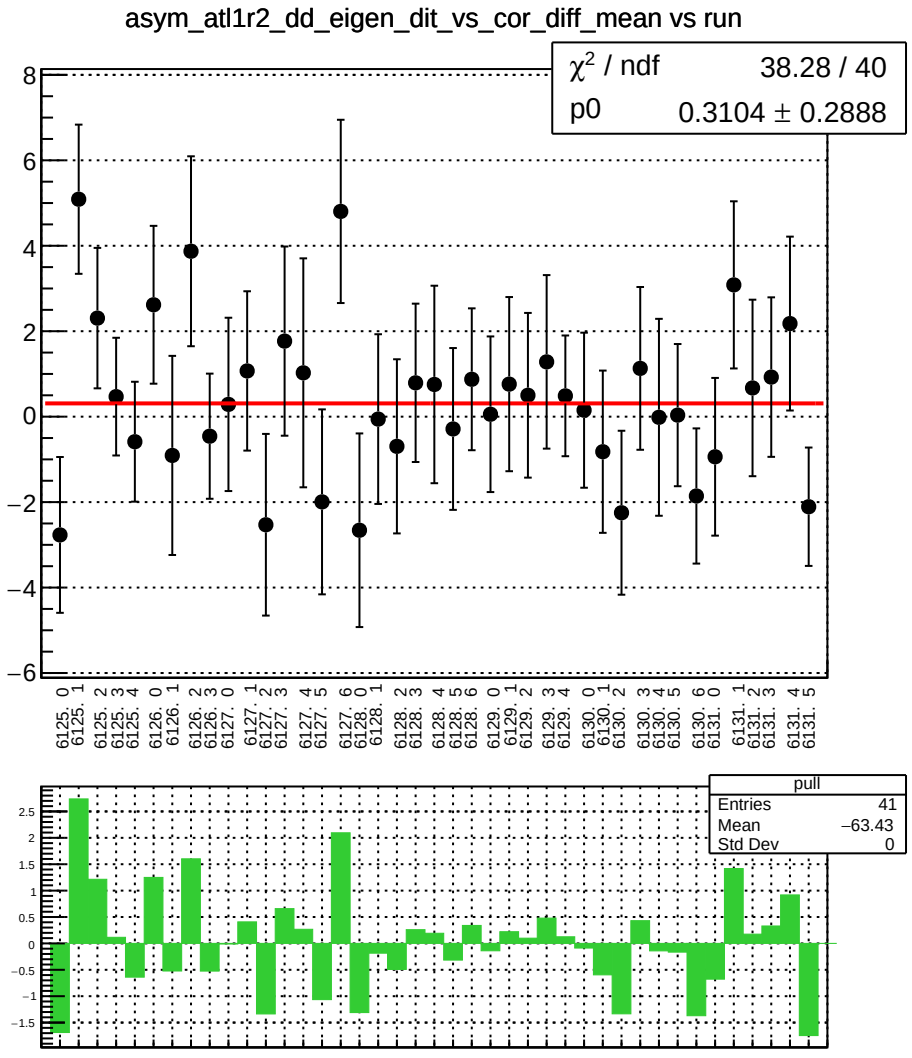

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.28 / 40
p0 0.3104 ± 0.2888
pull
Entries 41
Mean −63.44
Std Dev 0

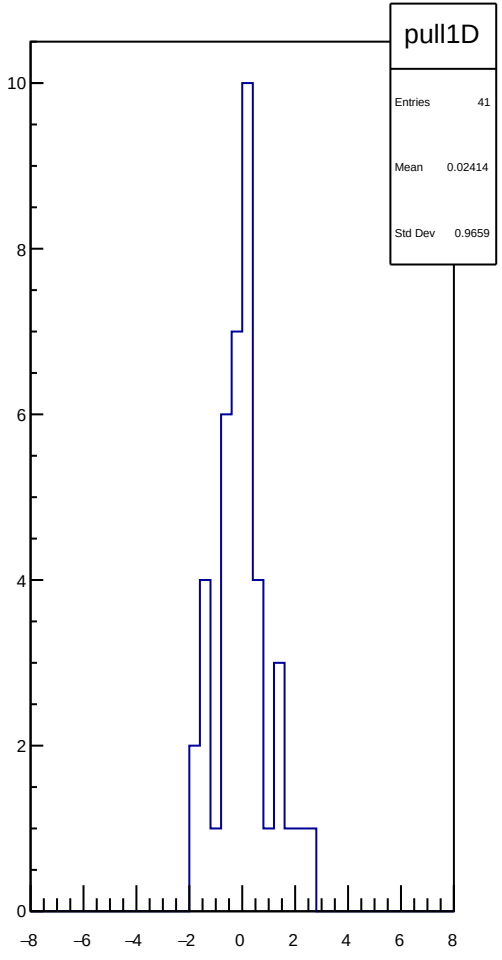

pull1D
Entries 41
Mean 0.02413
Std Dev 0.9659

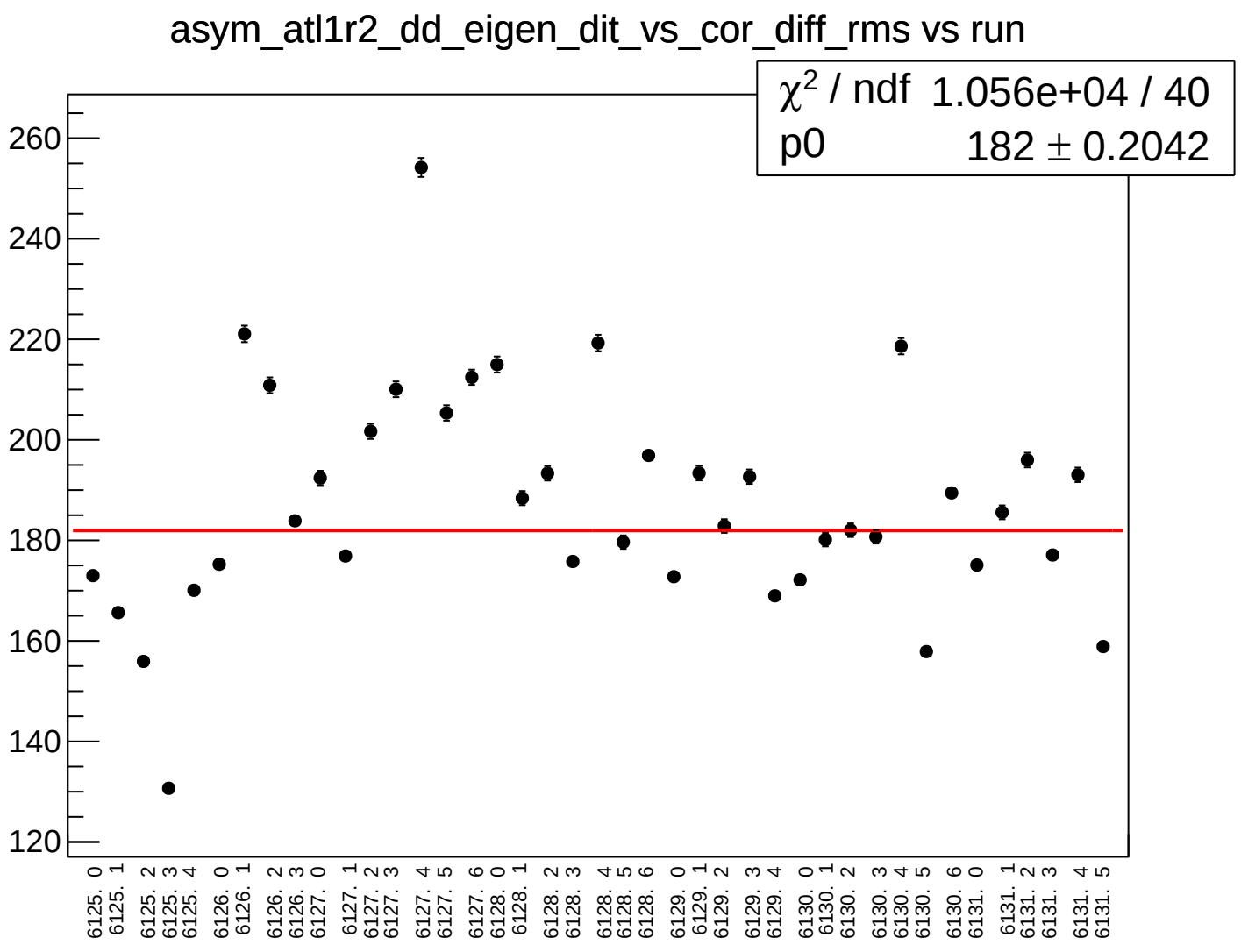

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.057e+04 / 40
p0 182 ± 0.2042
260
240
220
200
180
160
140
120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

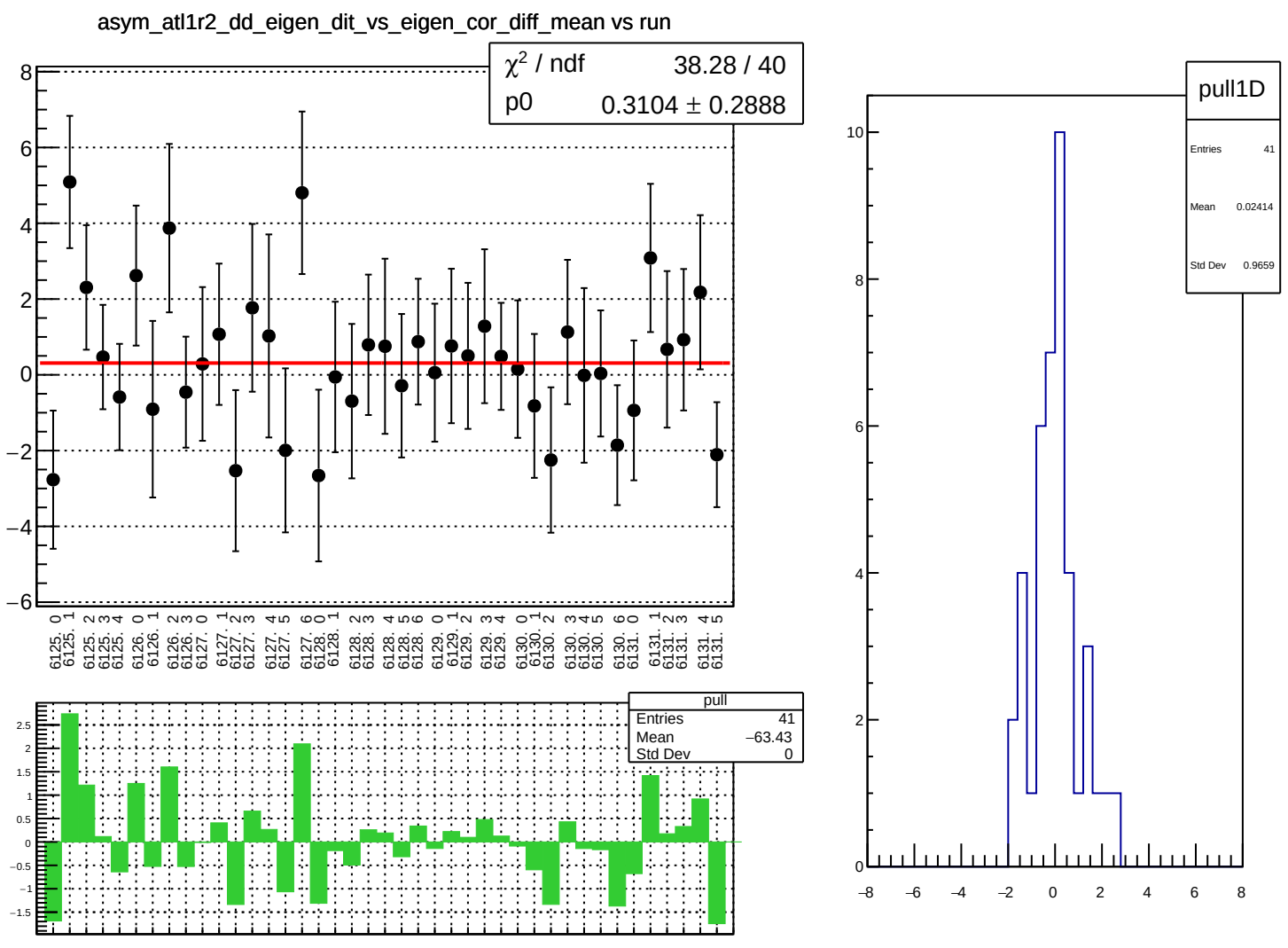

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 25.35 / 40
p0 1.228e−05 ± 2.503e−05
0.6
0.4
0.2
0
−0.2
−0.4
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 160
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.008292
Std Dev 0.7862
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

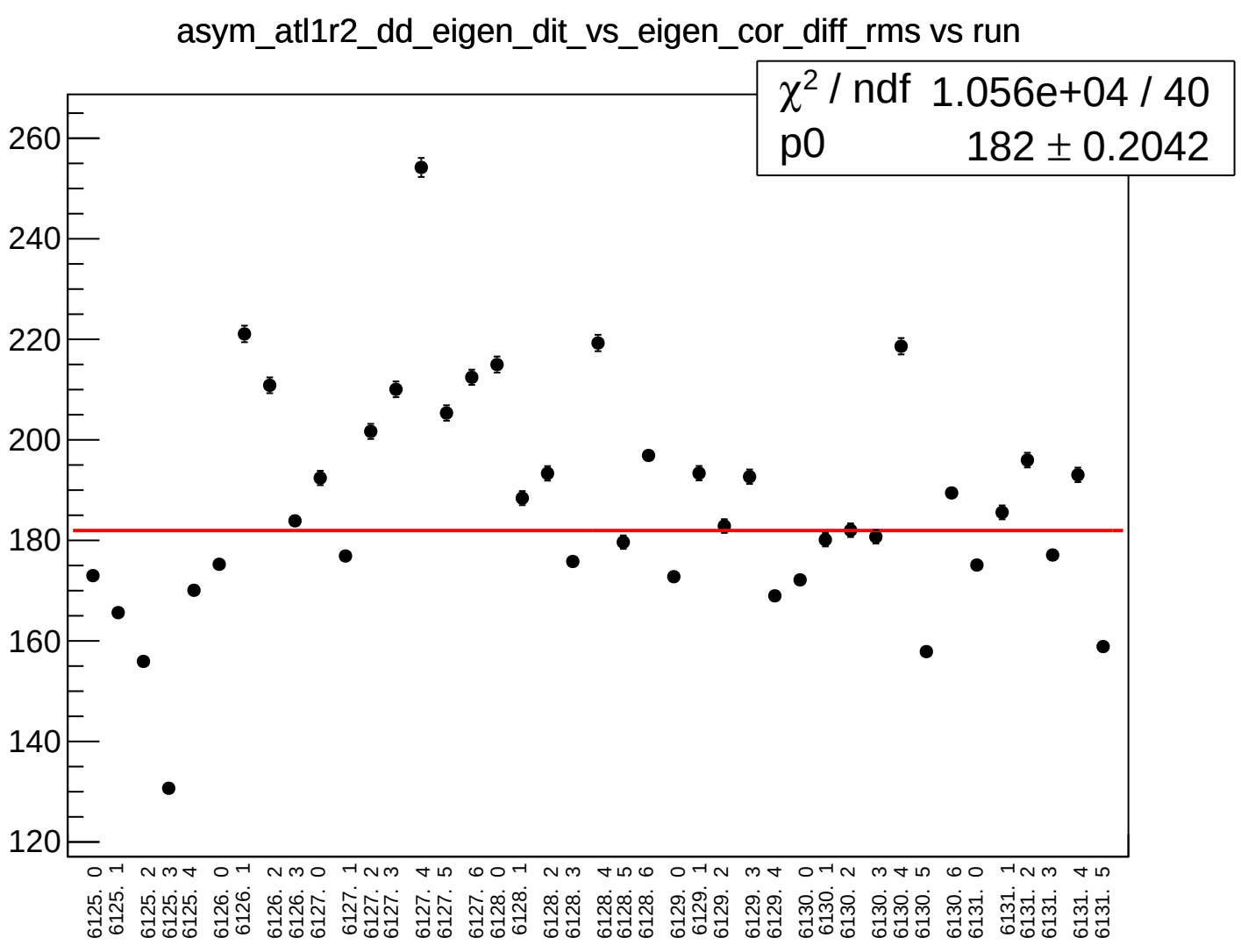

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1567 / 40
p0 0.01586 ± 1.77e−05
0.0175
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

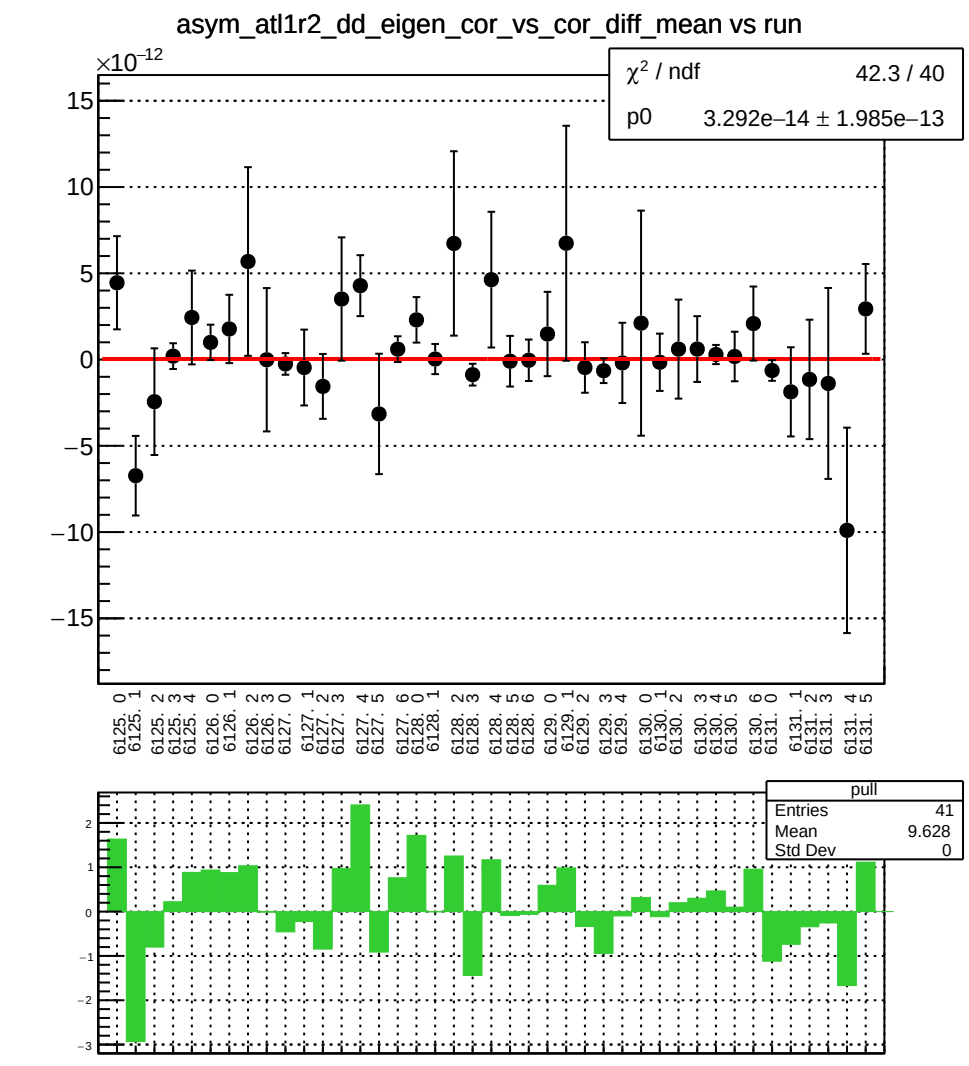

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.28 / 40
p0 0.3104 ± 0.2888
pull
Entries 41
Mean −63.43
Std Dev 0

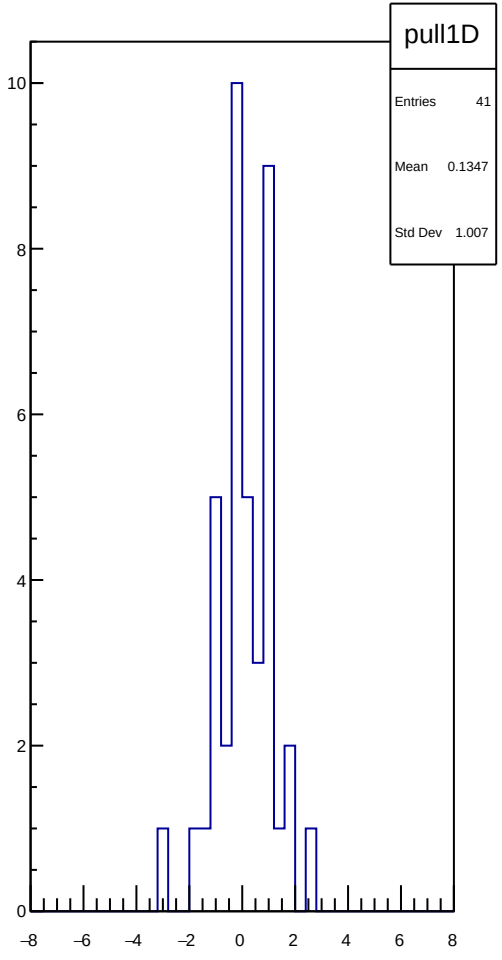

pull1D
Entries 41
Mean 0.02414
Std Dev 0.9659

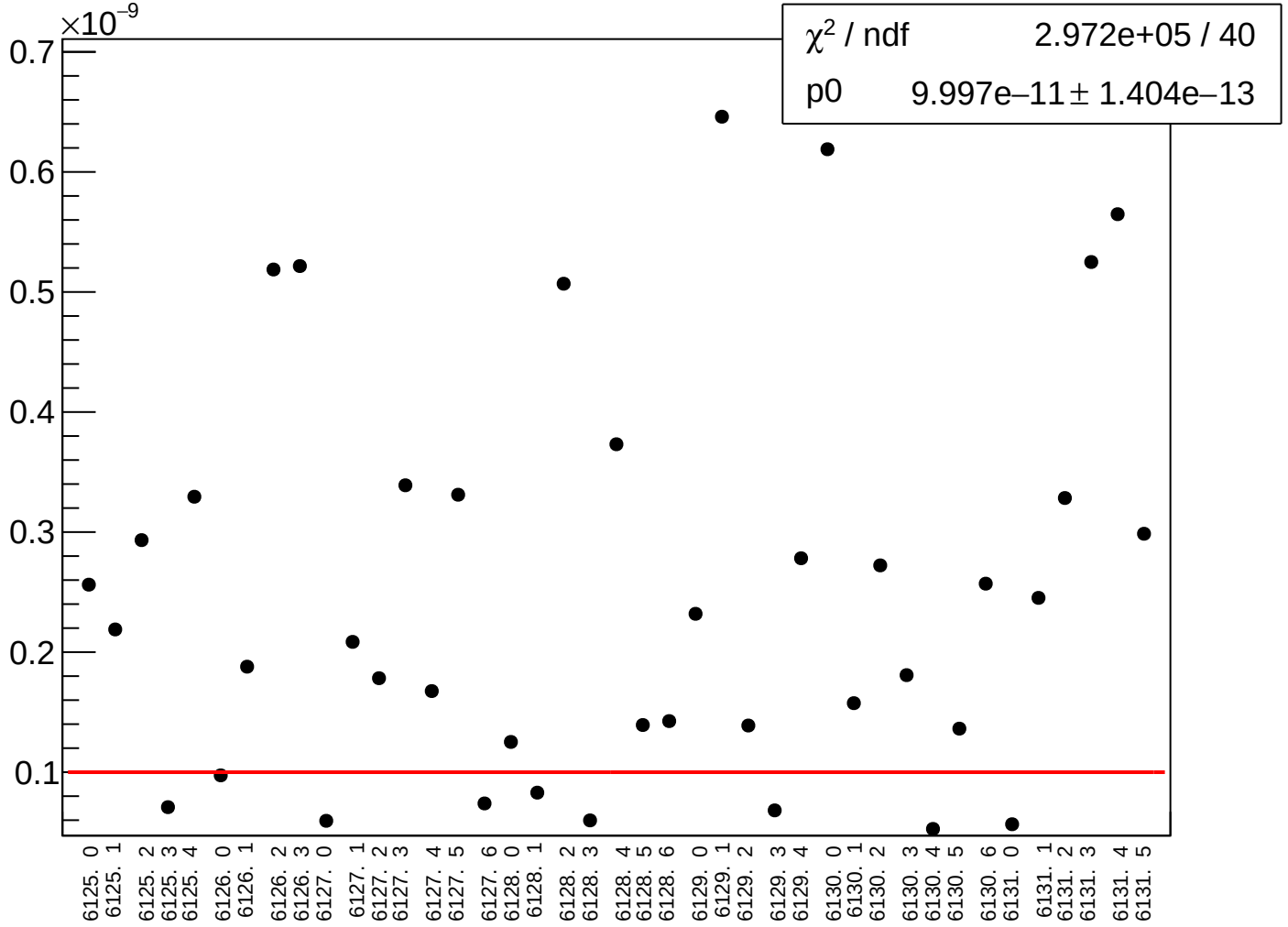

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.056e+04 / 40
p0 182 ± 0.2042
260
240
220
200
180
160
140
120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

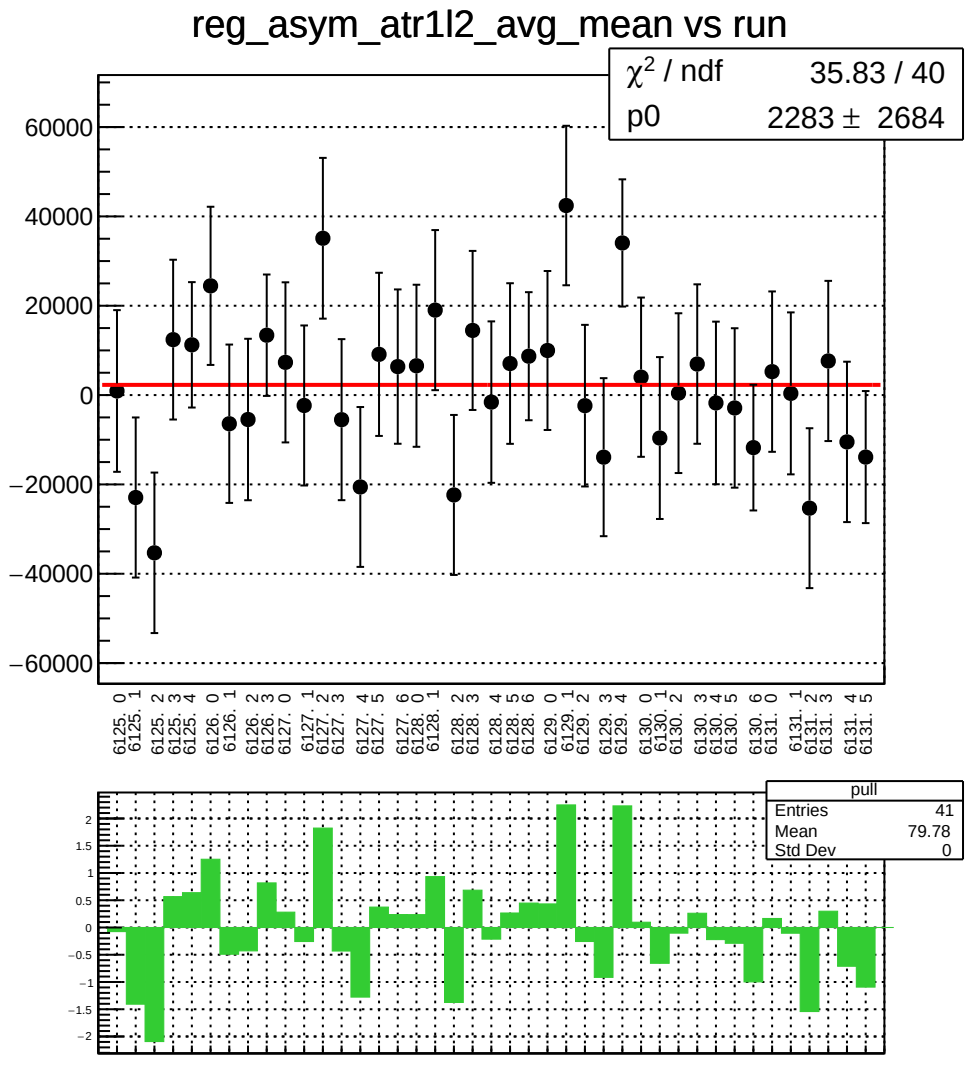

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.28 / 40
p0 0.3104 ± 0.2888
pull
Entries 41
Mean −63.43
Std Dev 0
pull1D
Entries 41
Mean 0.02414
Std Dev 0.9659

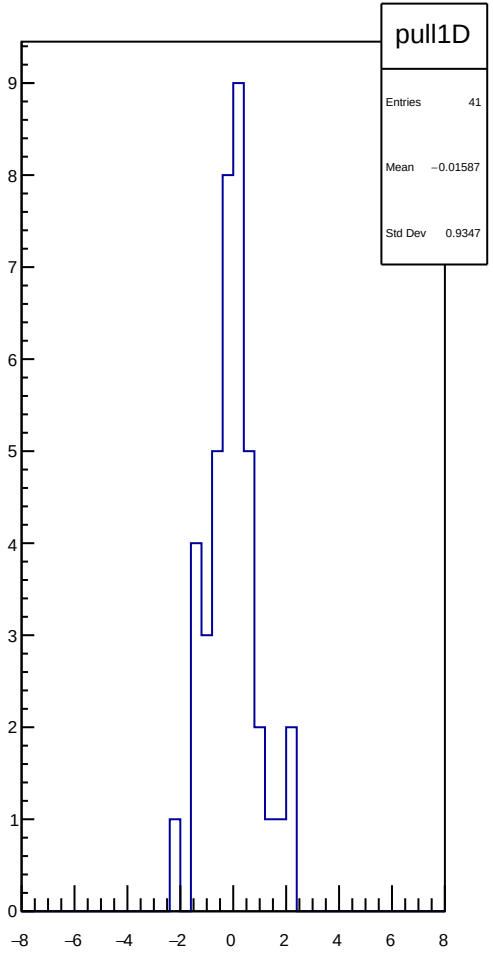

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.056e+04 / 40
p0 182 ± 0.2042
260
240
220
200
180
160
140
120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

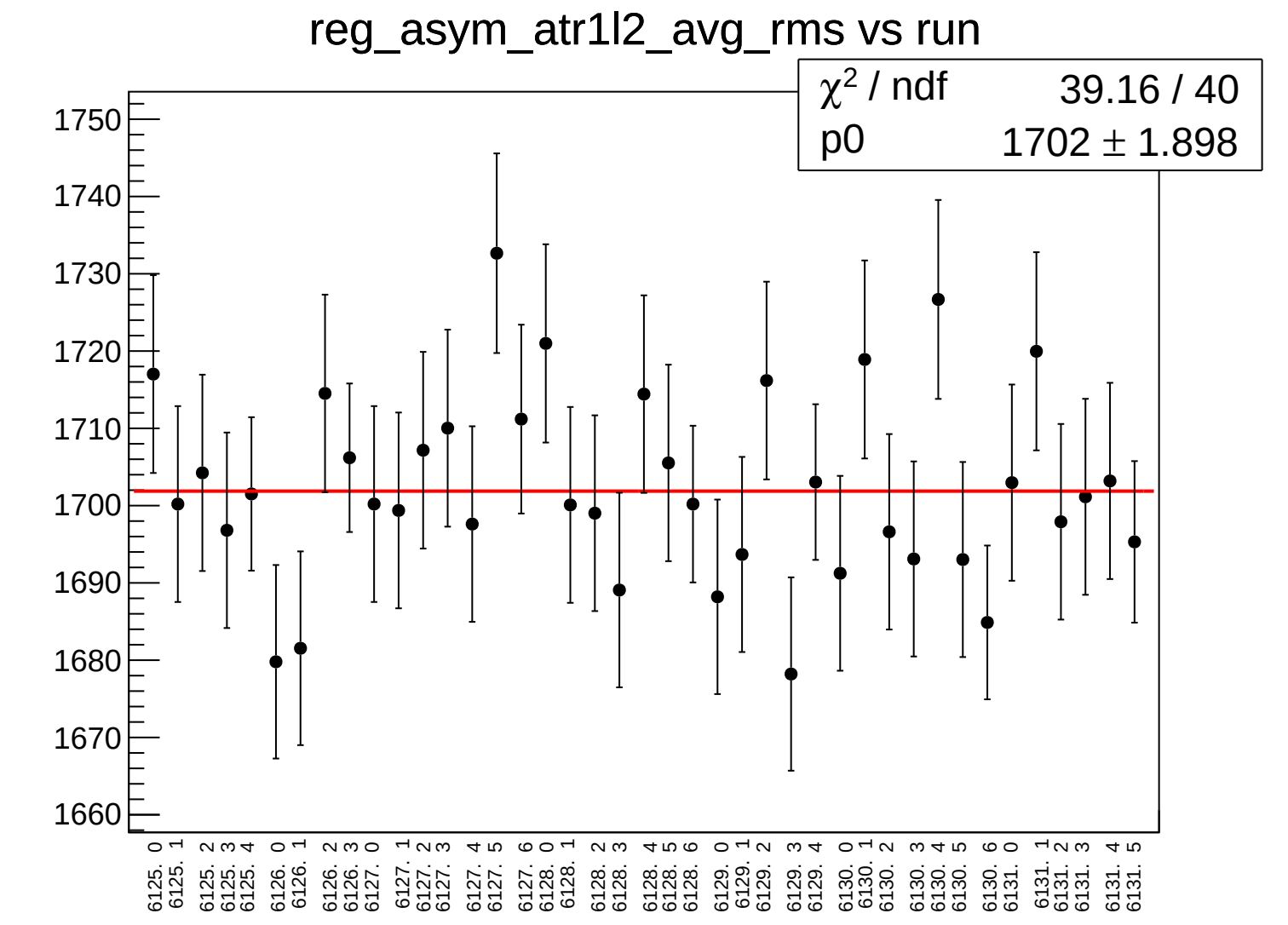

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 42.3 / 40
p0 3.292e−14 ± 1.985e−13
15
10
5
0
−5
−10
−15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 9.628
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean 0.1347
Std Dev 1.007
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.972e+05 / 40
p0 9.997e−11 ± 1.404e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


reg_asym_atr1l2_avg_mean vs run
χ² / ndf 35.83 / 40
p0 2283 ± 2684
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 79.78
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.01587
Std Dev 0.9347
9
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 39.16 / 40
p0 1702 ± 1.898
1750
1740
1730
1720
1710
1700
1690
1680
1670
1660
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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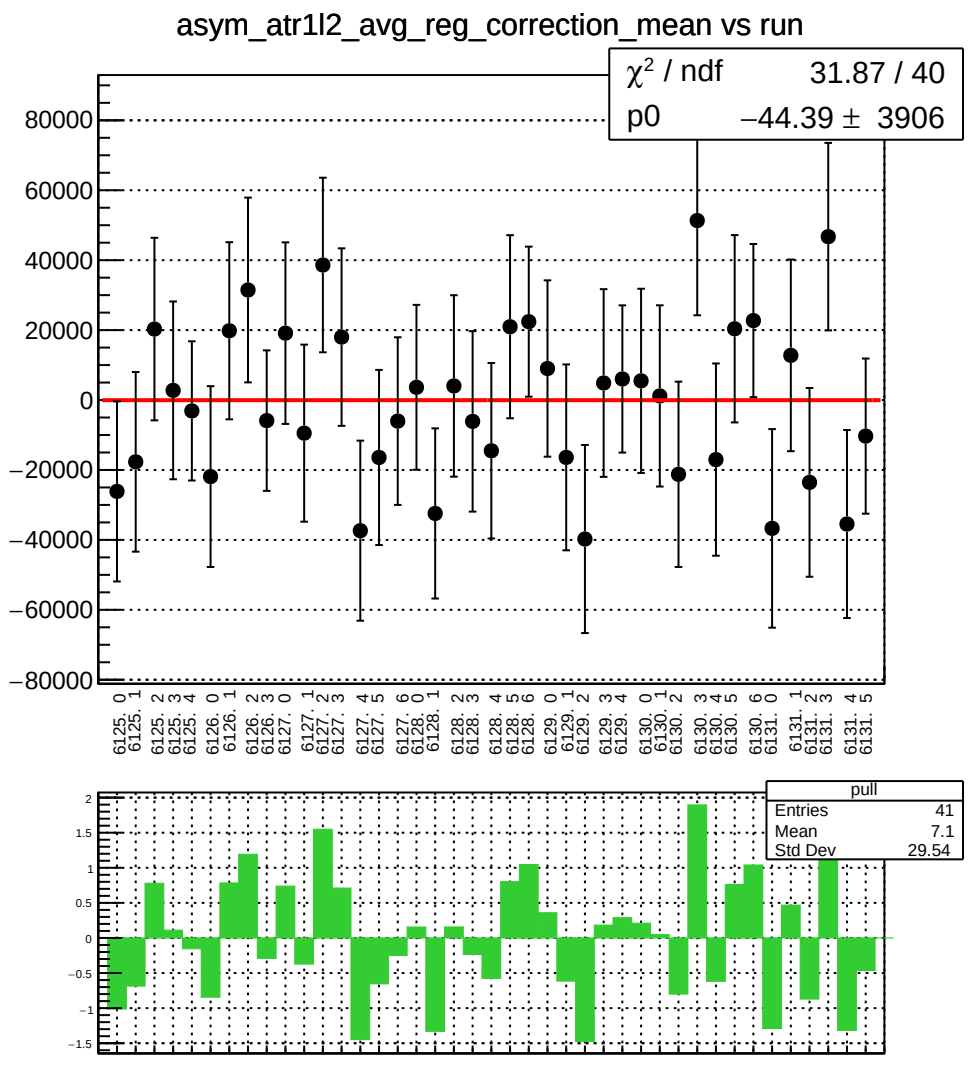
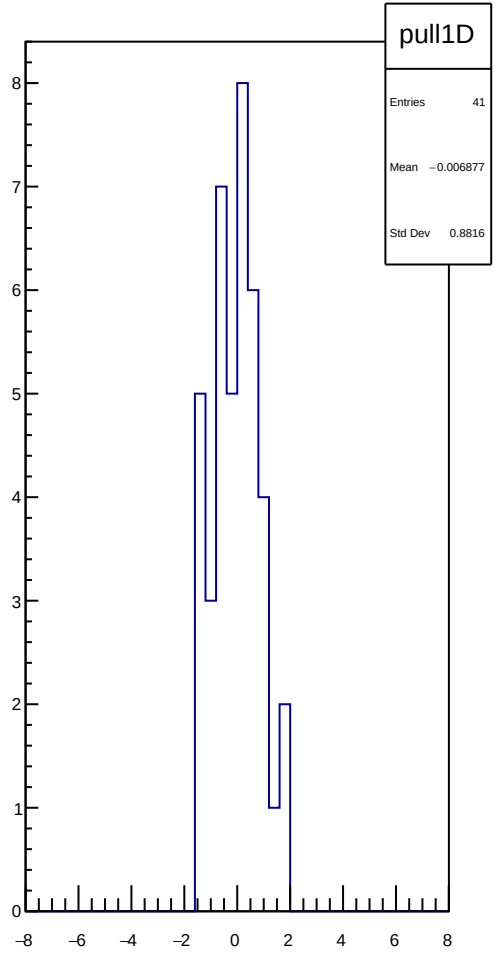
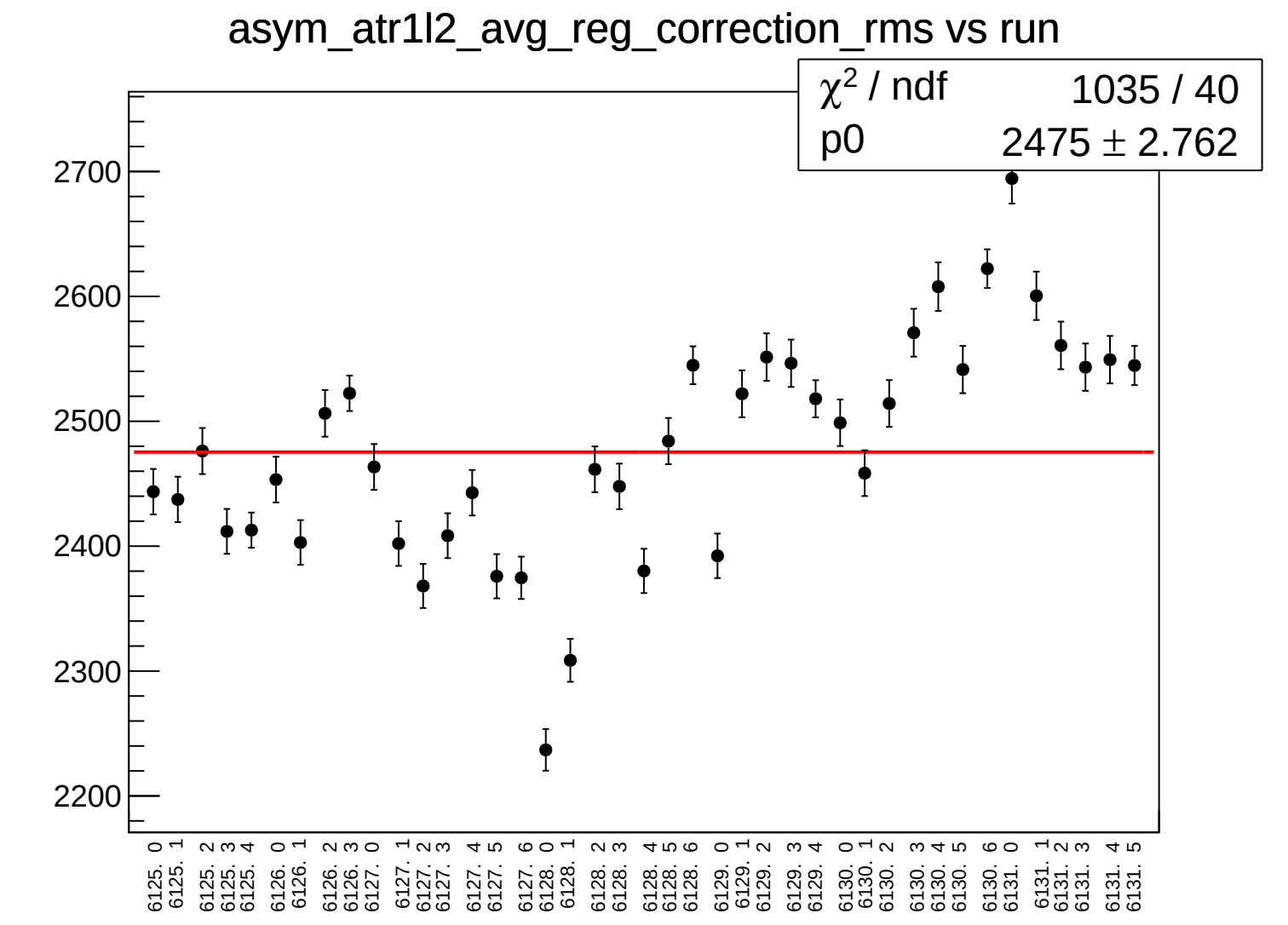
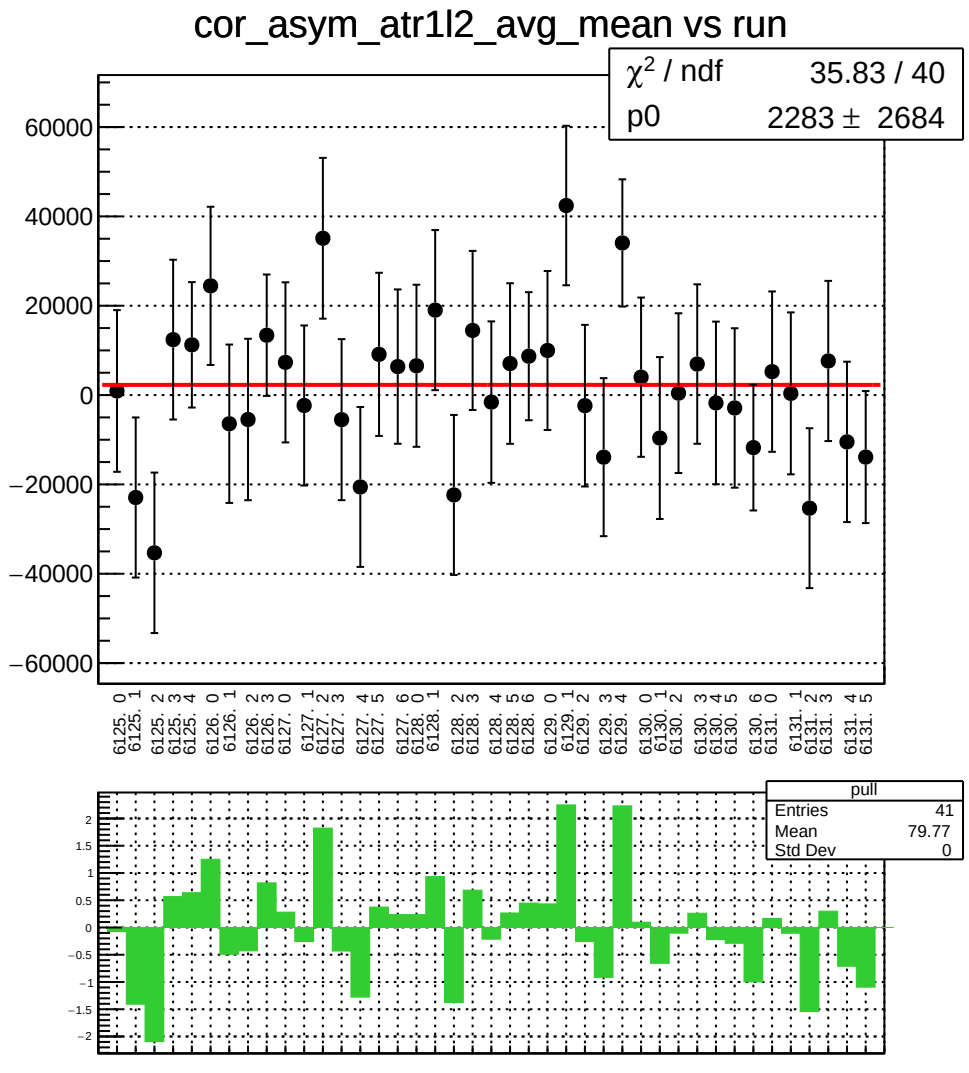
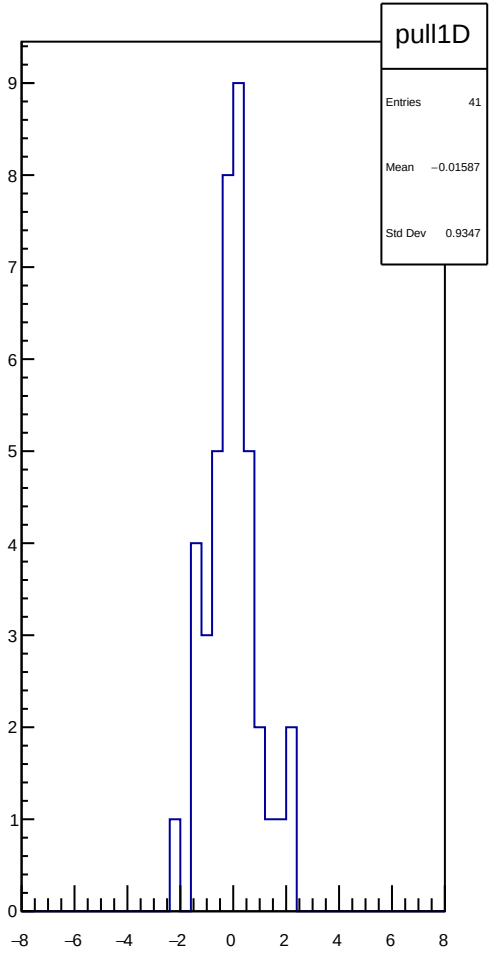
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atr1l2_avg_reg_correction_mean vs run
χ² / ndf 31.87 / 40
p0 −44.39 ± 3906
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 7.1
Std Dev 29.54
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.006877
Std Dev 0.8816
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 1035 / 40
p0 2475 ± 2.762
2700
2600
2500
2400
2300
2200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


cor_asym_atr1l2_avg_mean vs run
χ² / ndf 35.83 / 40
p0 2283 ± 2684
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 79.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.01587
Std Dev 0.9347
9
8
7
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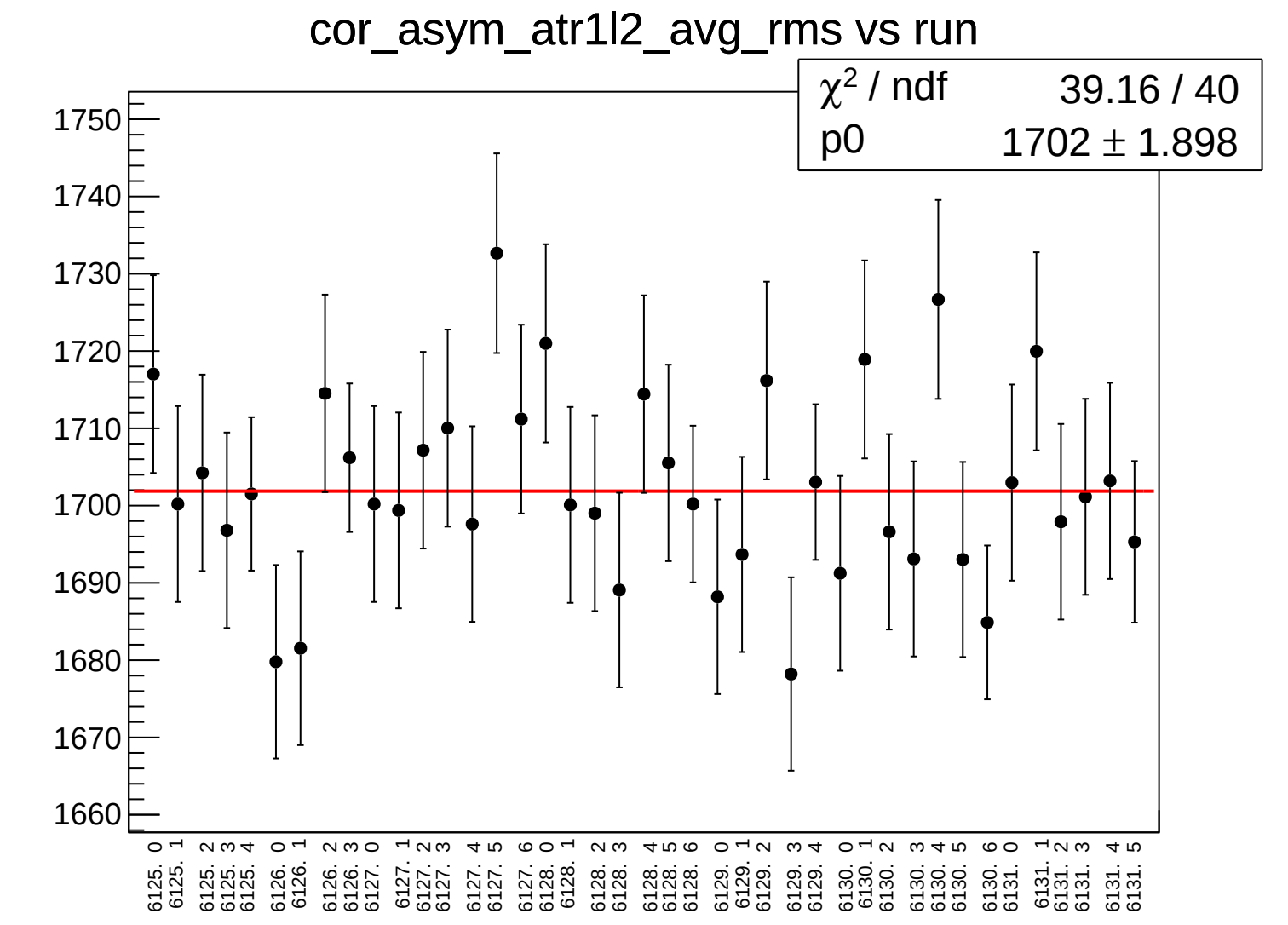
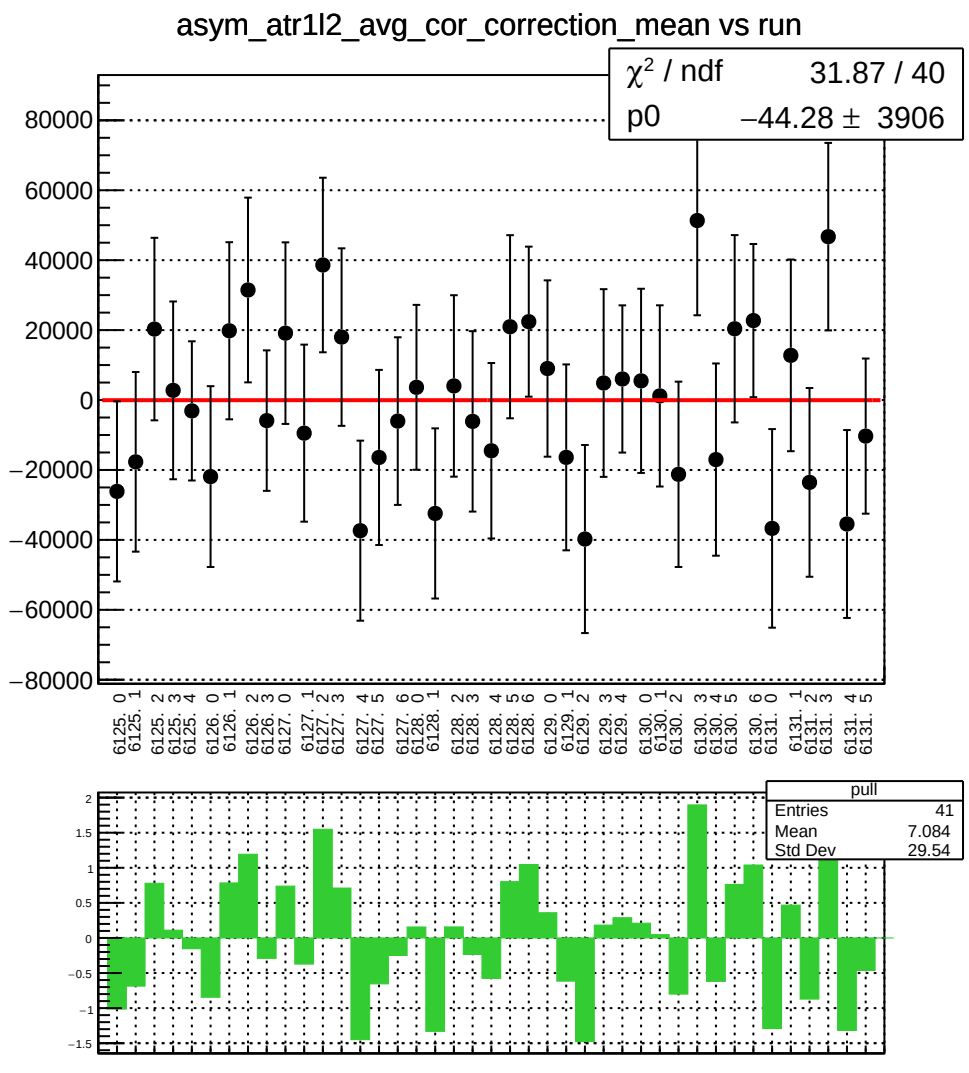
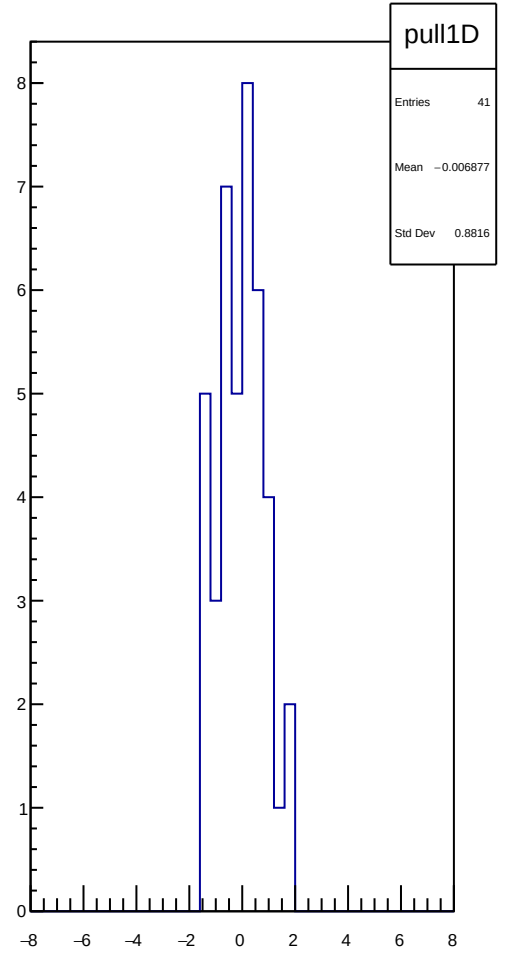
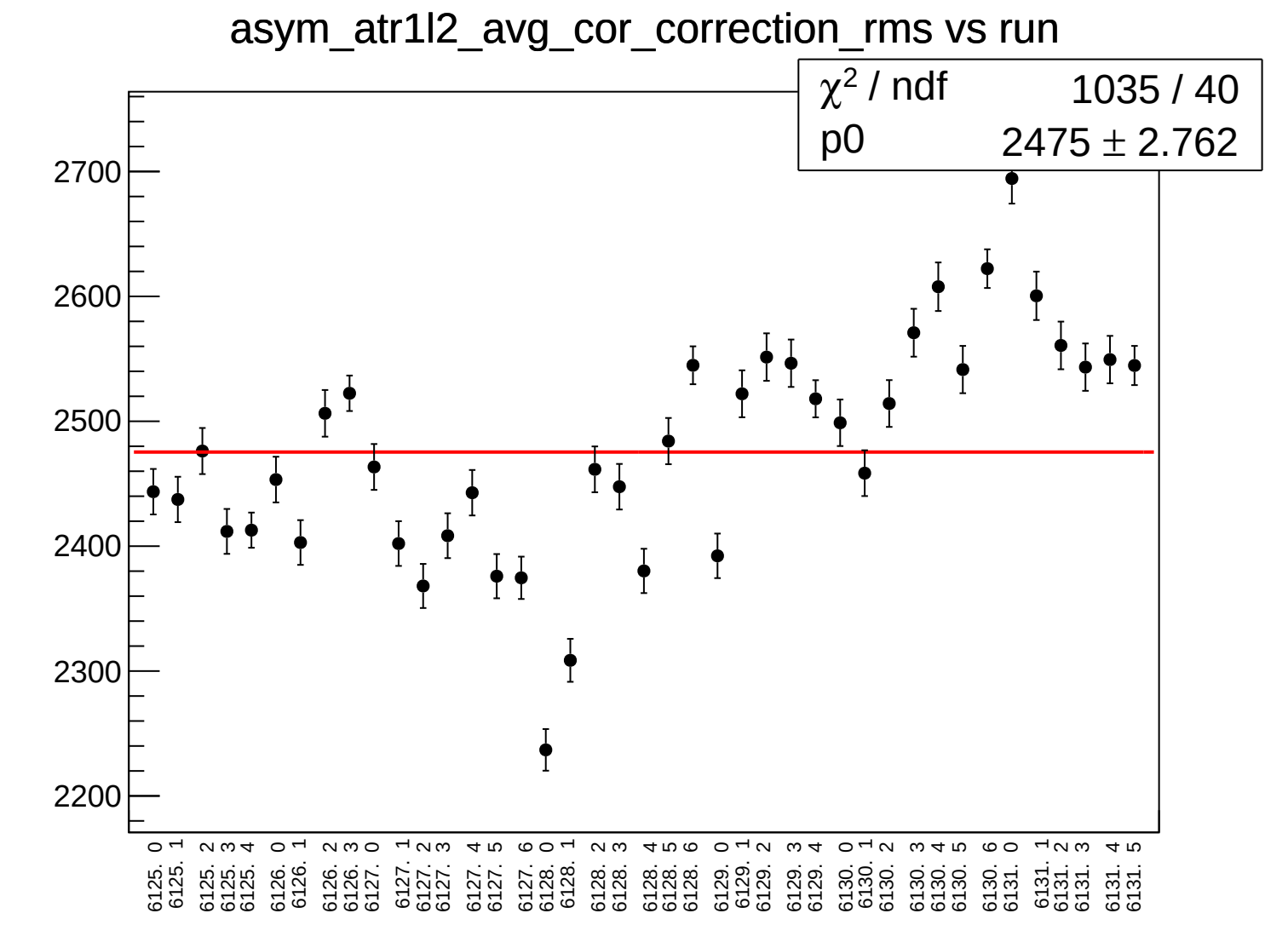
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr1l2_avg_rms vs run
χ² / ndf 39.16 / 40
p0 1702 ± 1.898
1750
1740
1730
1720
1710
1700
1690
1680
1670
1660
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atr1l2_avg_cor_correction_mean vs run
χ² / ndf 31.87 / 40
p0 −44.28 ± 3906
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 7.084
Std Dev 29.54
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.006877
Std Dev 0.8816
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 1035 / 40
p0 2475 ± 2.762
2700
2600
2500
2400
2300
2200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
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6127. 2
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6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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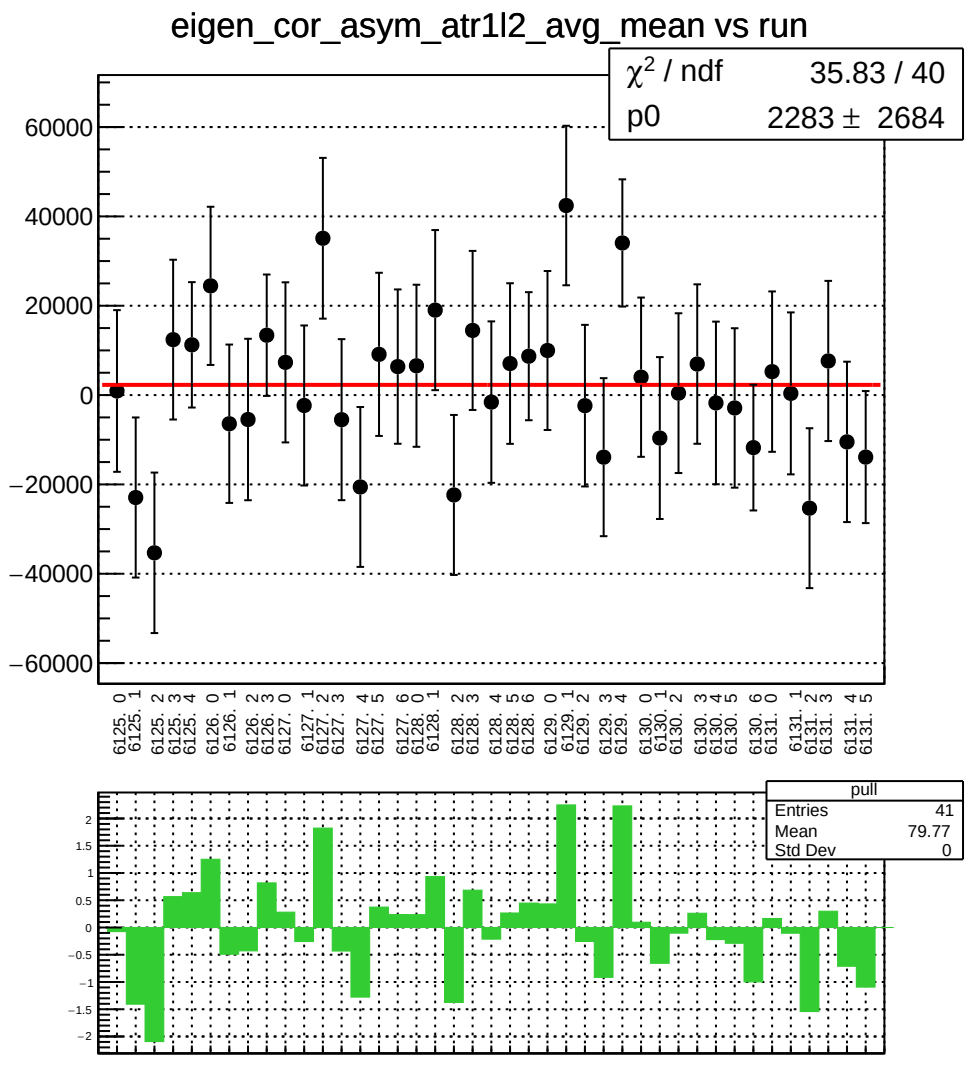
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 35.83 / 40
p0 2283 ± 2684
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
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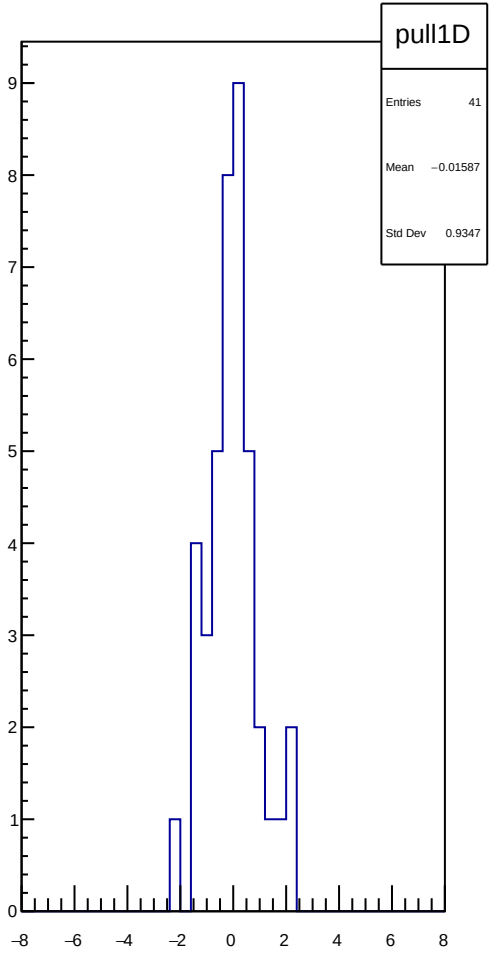
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 79.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.01587
Std Dev 0.9347
9
8
7
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5
4
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1
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−8
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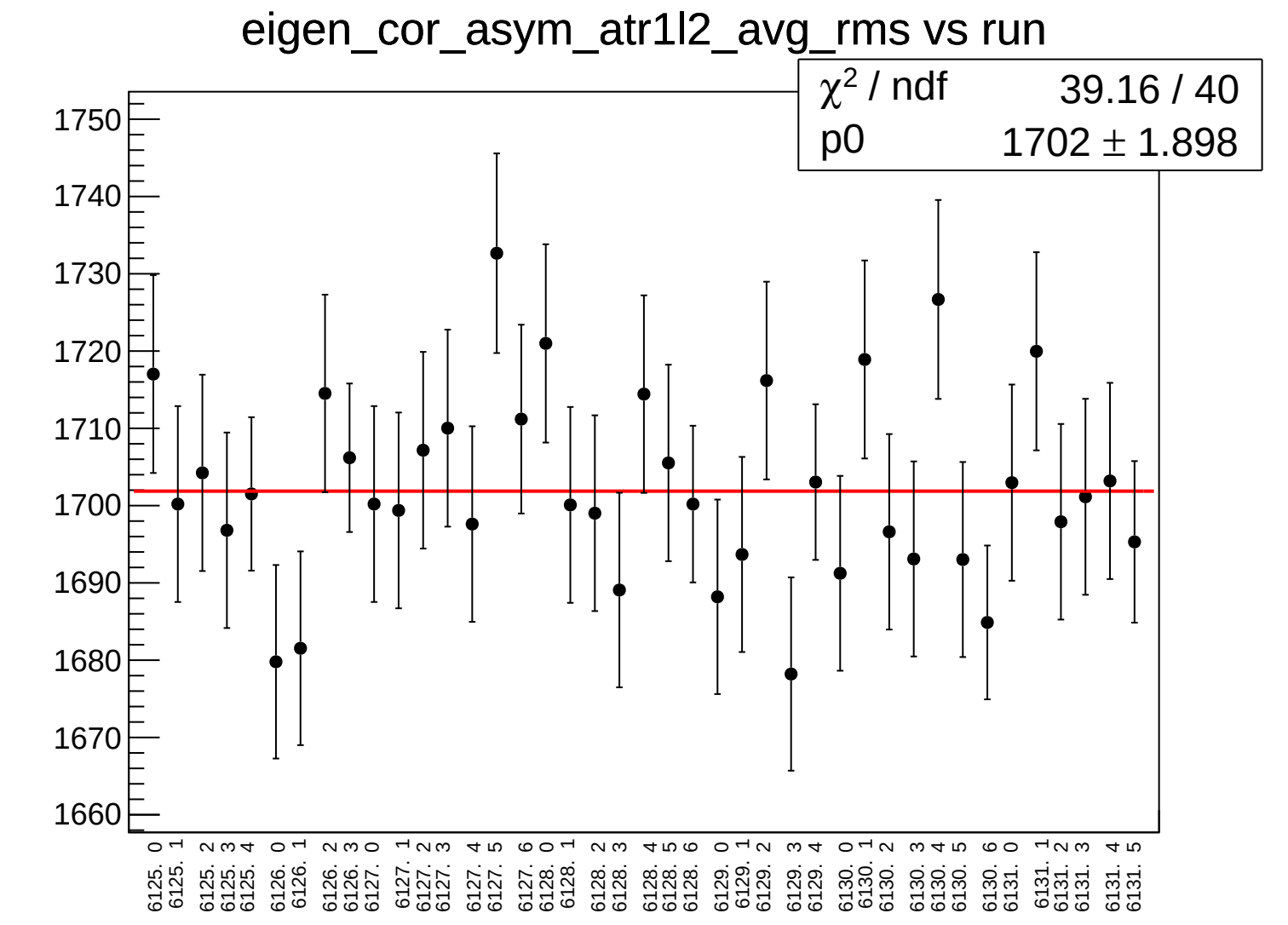
−4
−2
0
2
4
6
8


eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 39.16 / 40
p0 1702 ± 1.898
1750
1740
1730
1720
1710
1700
1690
1680
1670
1660
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
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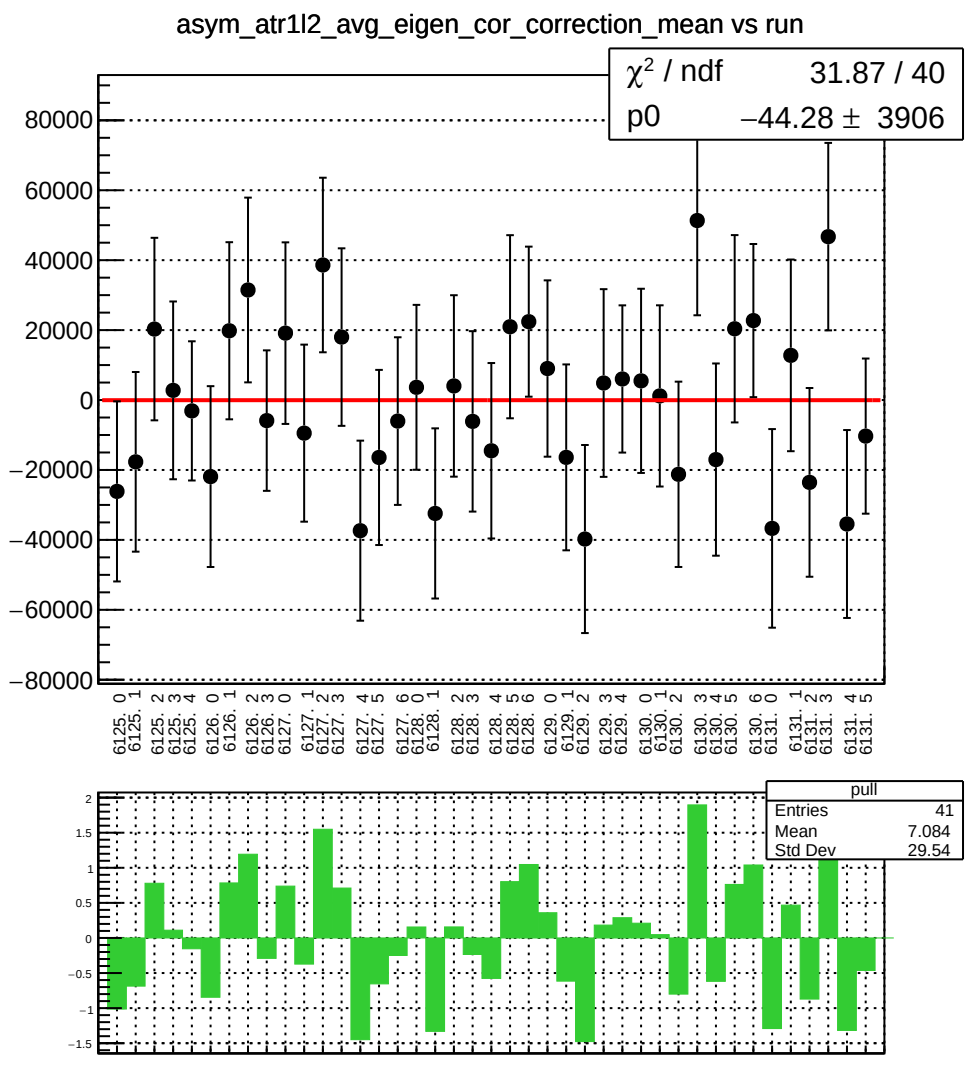
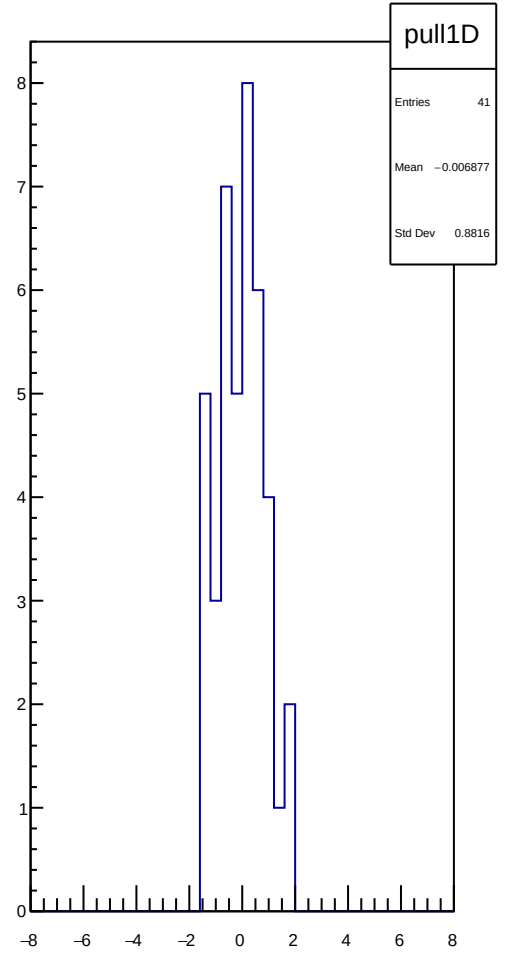
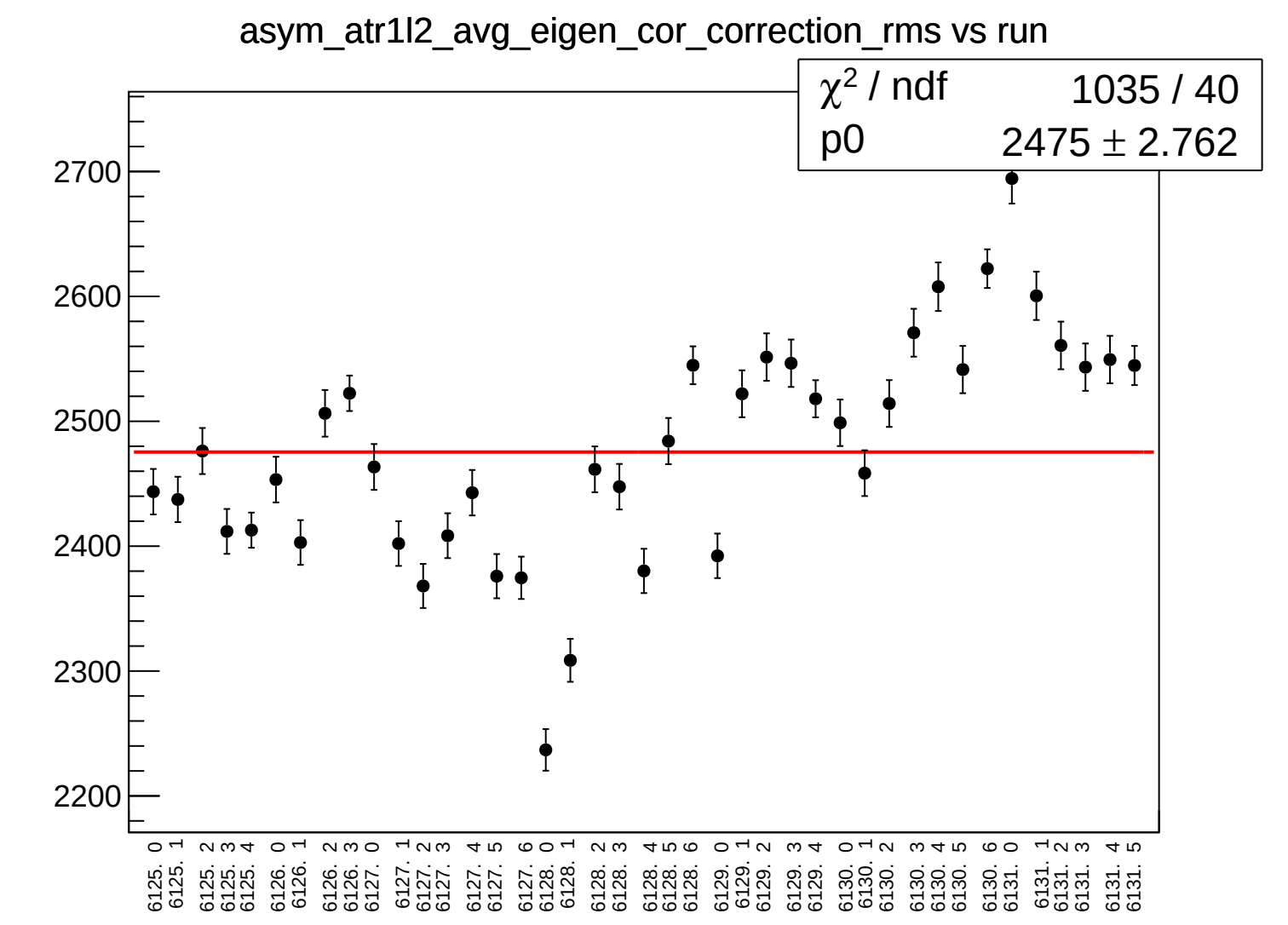
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atr1l2_avg_eigen_cor_correction_mean vs run
χ² / ndf 31.87 / 40
p0 −44.28 ± 3906
pull
Entries 41
Mean 7.084
Std Dev 29.54


pull1D
Entries 41
Mean −0.006877
Std Dev 0.8816


asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1035 / 40
p0 2475 ± 2.762
2700
2600
2500
2400
2300
2200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
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6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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6130. 5
6130. 6
6131. 0
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6131. 2
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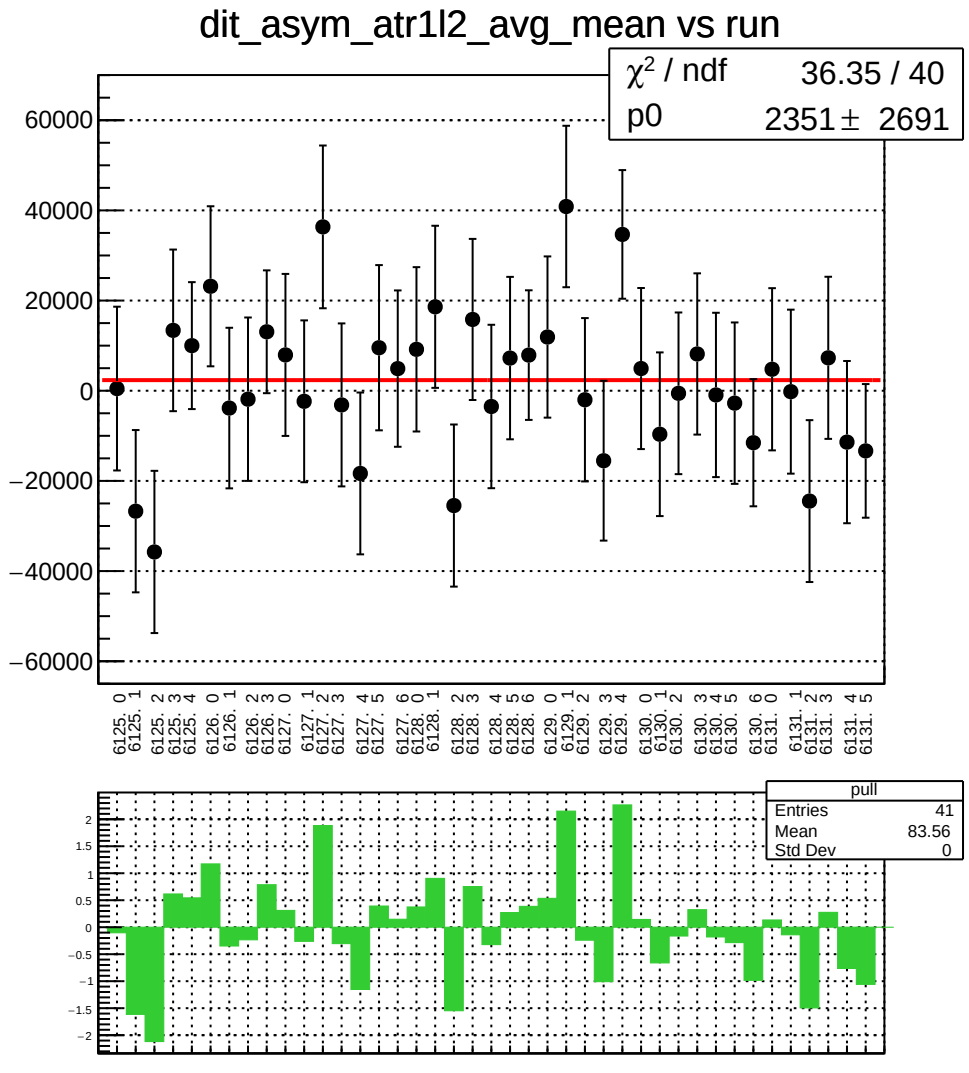
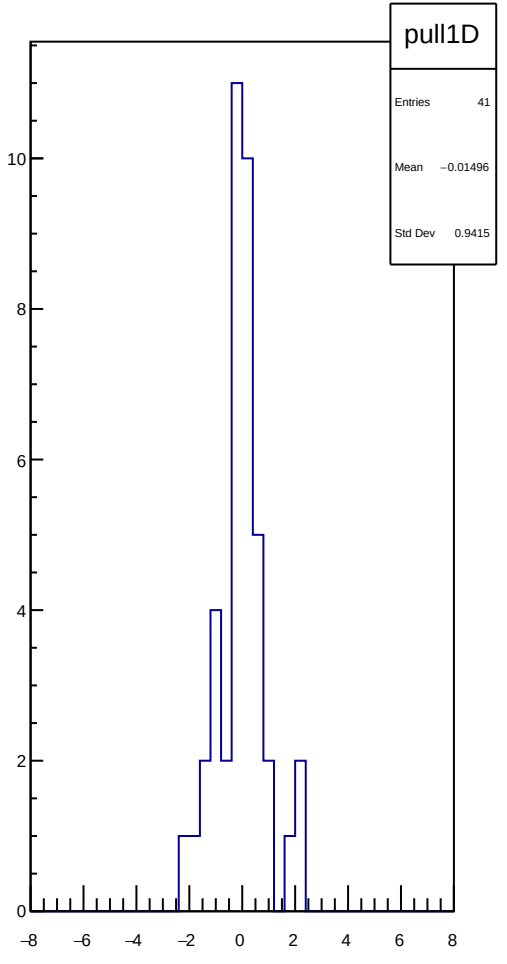
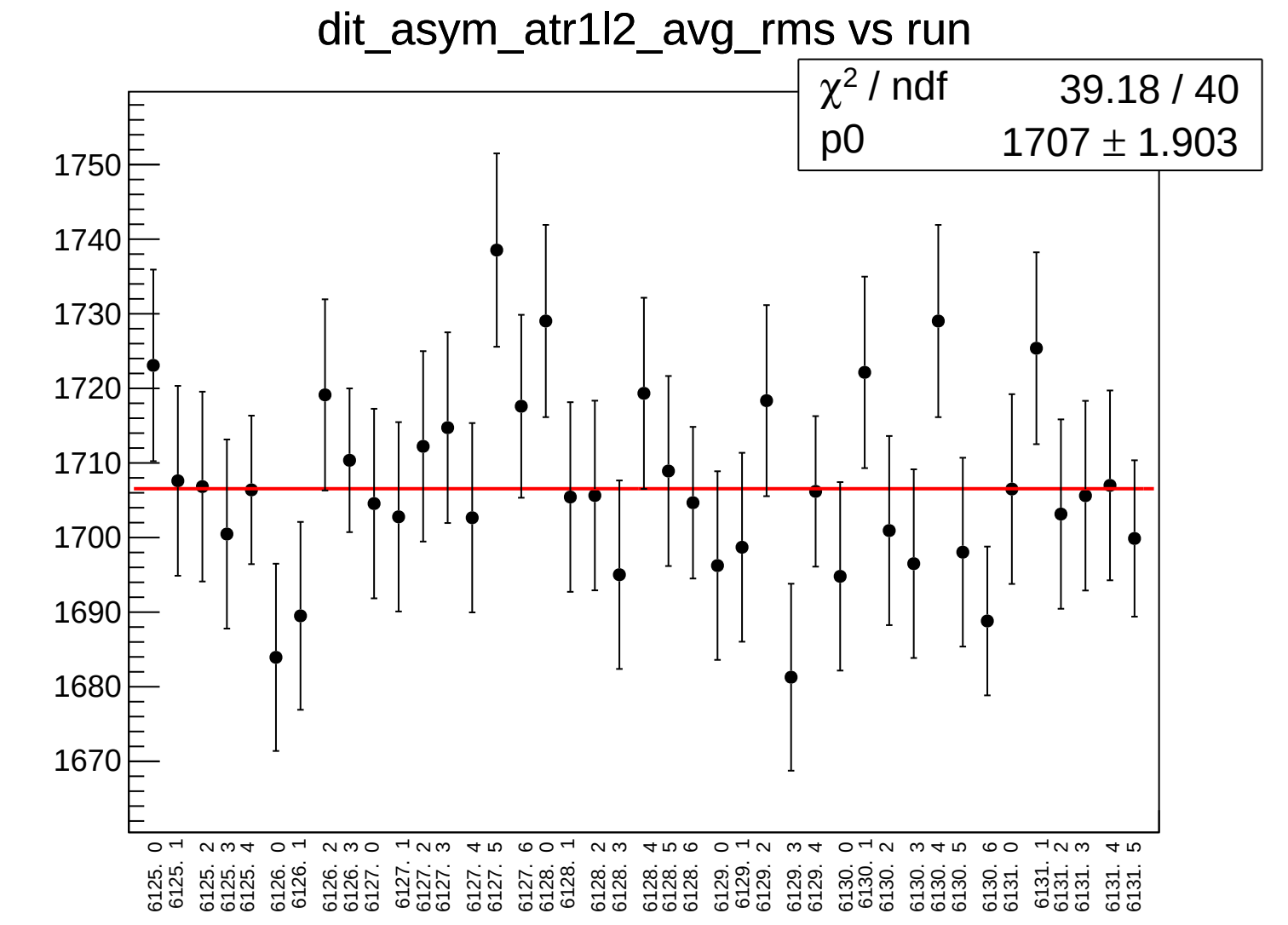
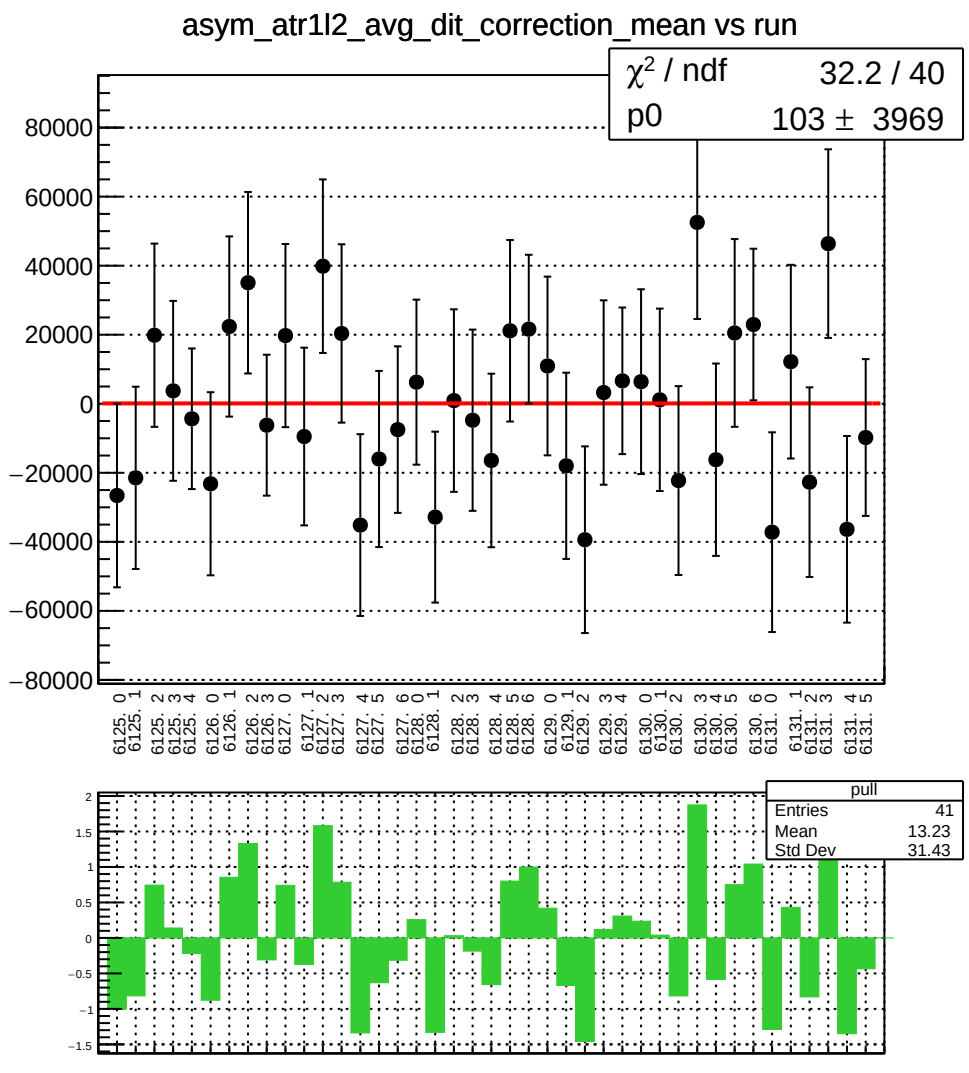
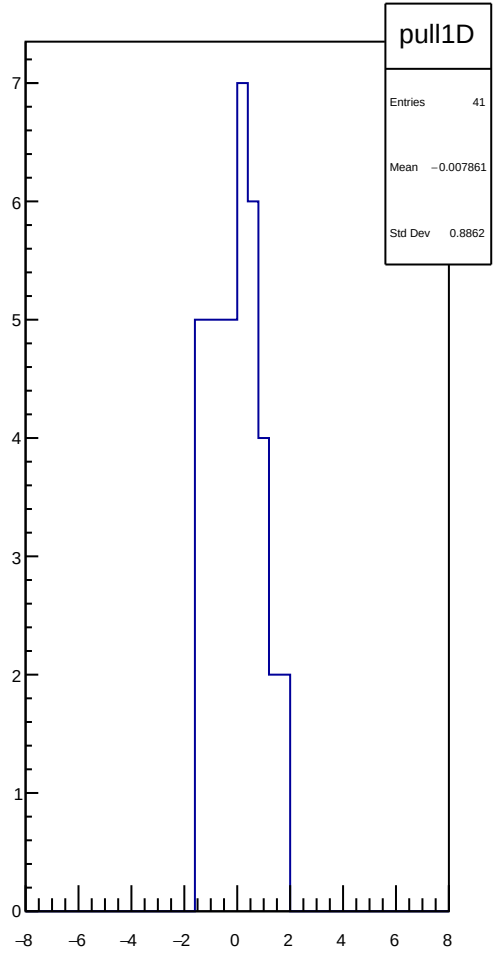
6131. 4
6131. 5

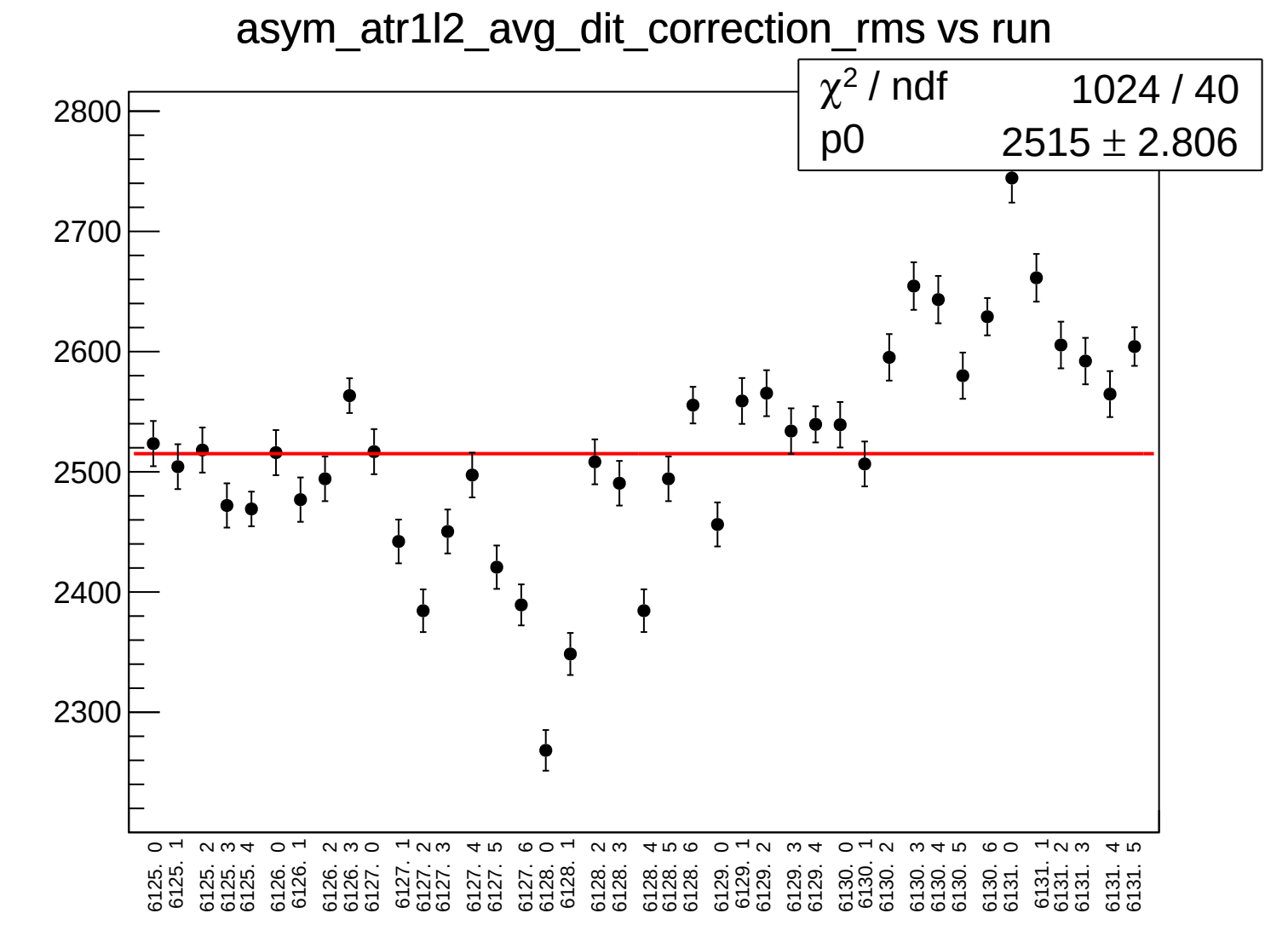

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 36.35 / 40
p0 2351 ± 2691
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 83.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

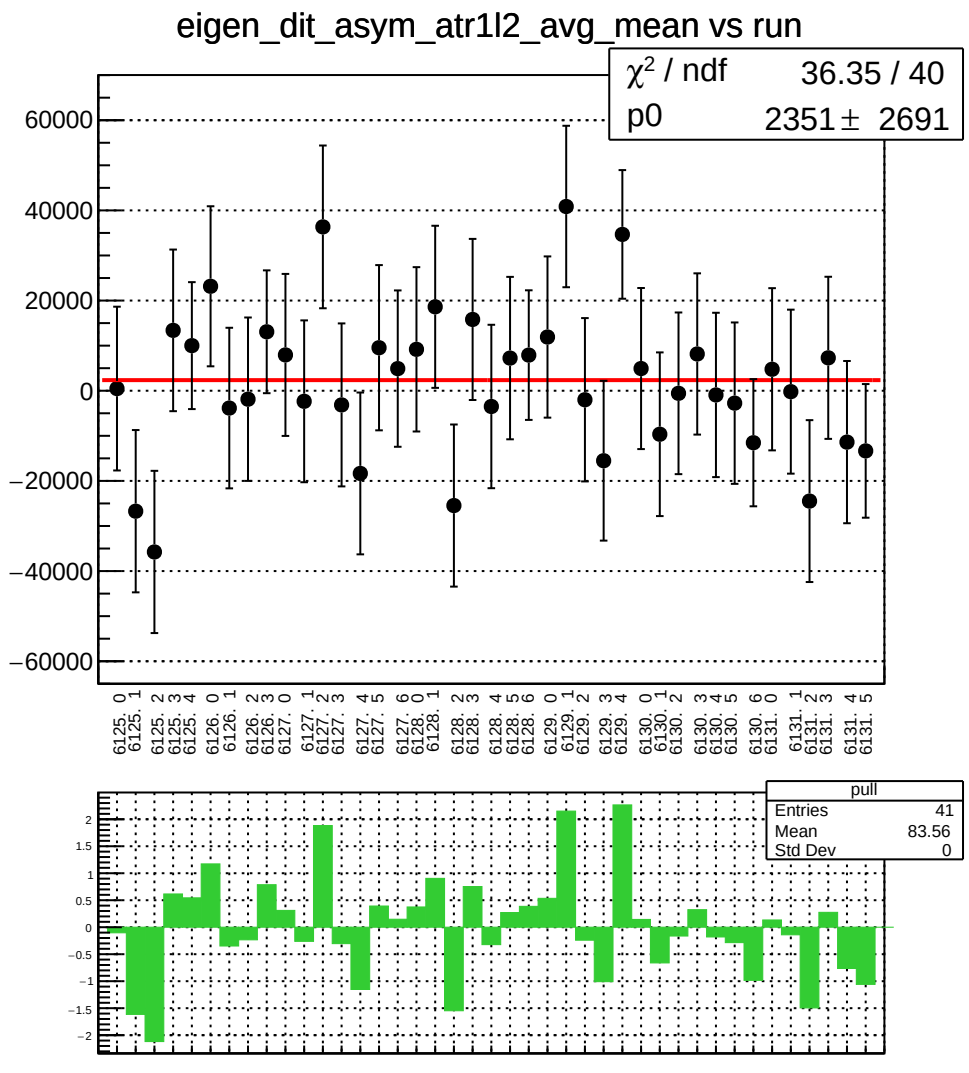

pull1D
Entries 41
Mean −0.01496
Std Dev 0.9415
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

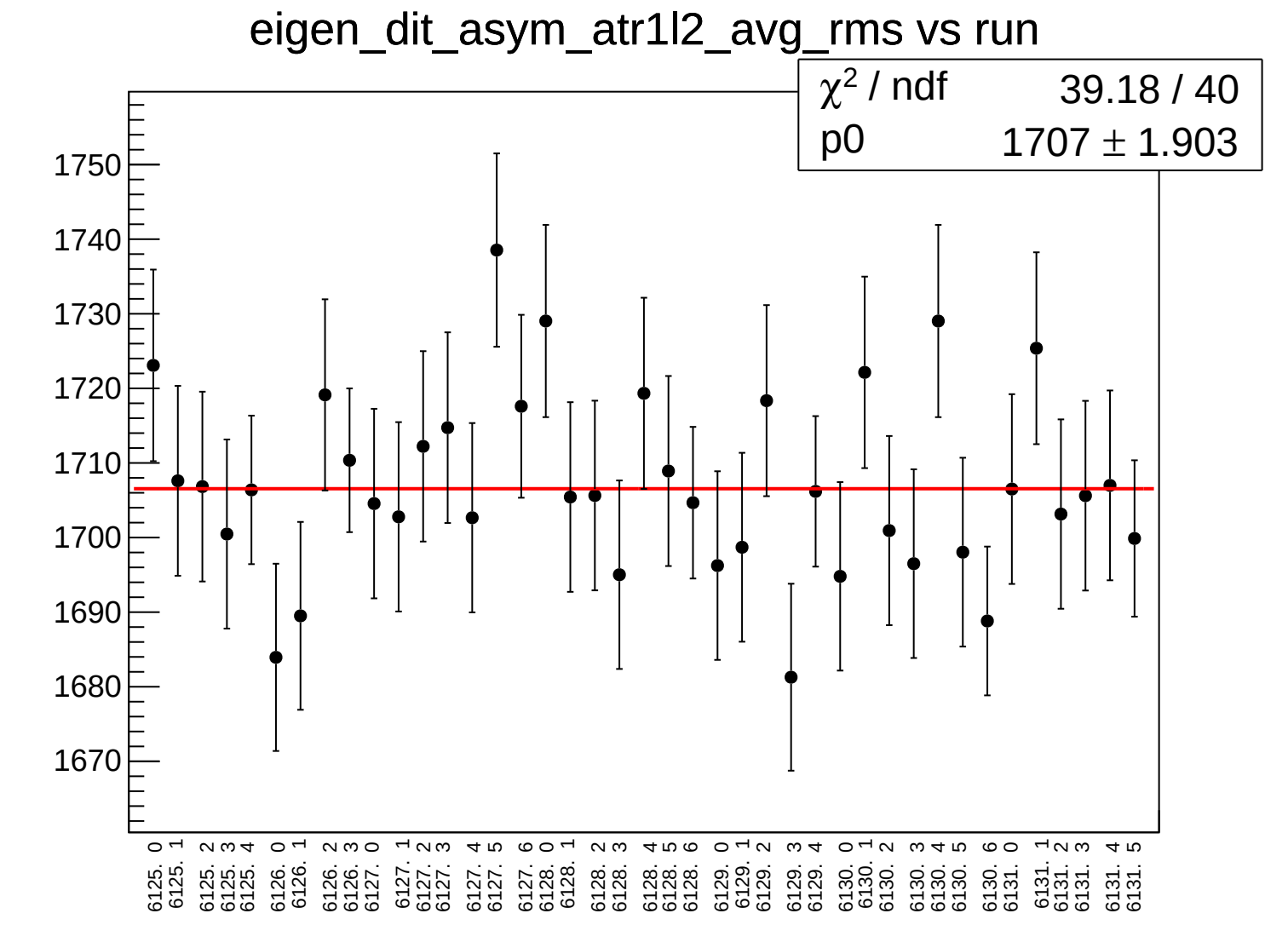

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 39.18 / 40
p0 1707 ± 1.903
1750
1740
1730
1720
1710
1700
1690
1680
1670
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

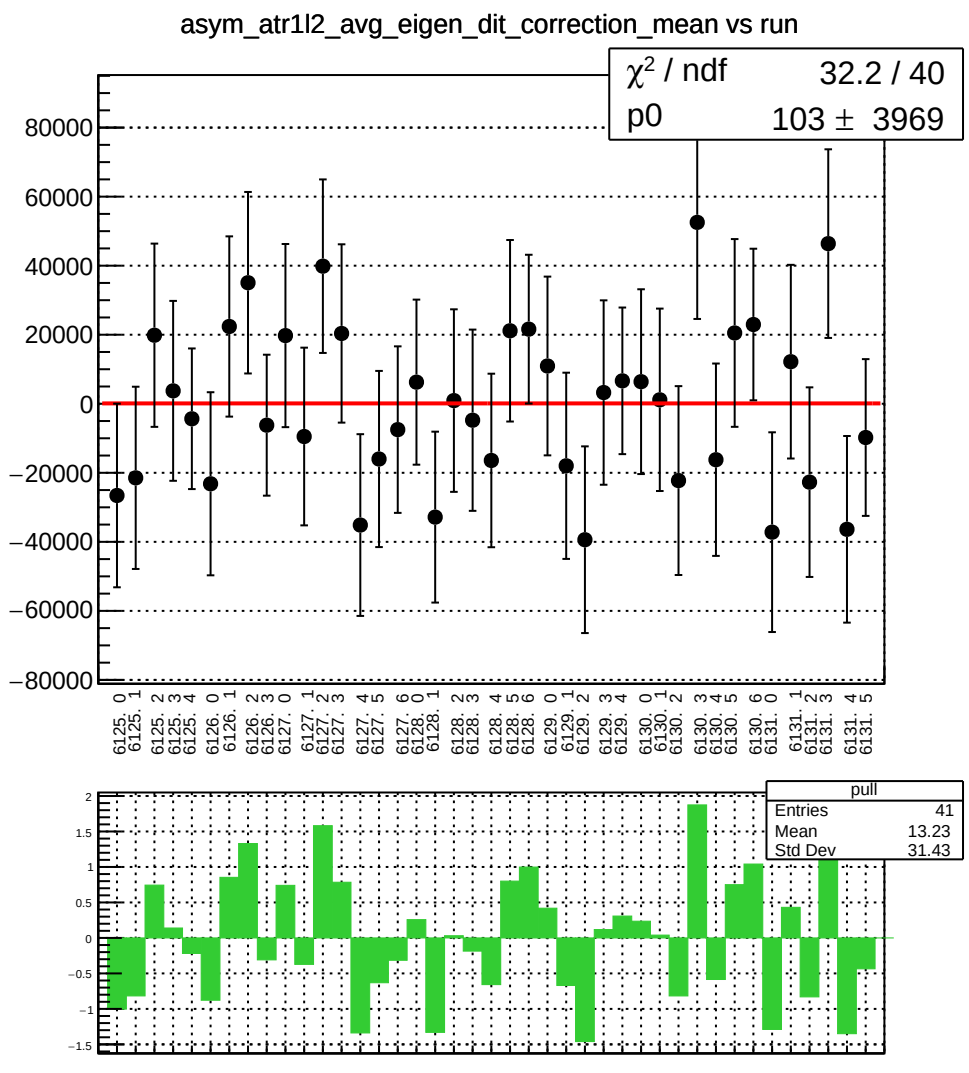

asym_atr1l2_avg_dit_correction_mean vs run
χ² / ndf 32.2 / 40
p0 103 ± 3969
pull
Entries 41
Mean 13.23
Std Dev 31.43

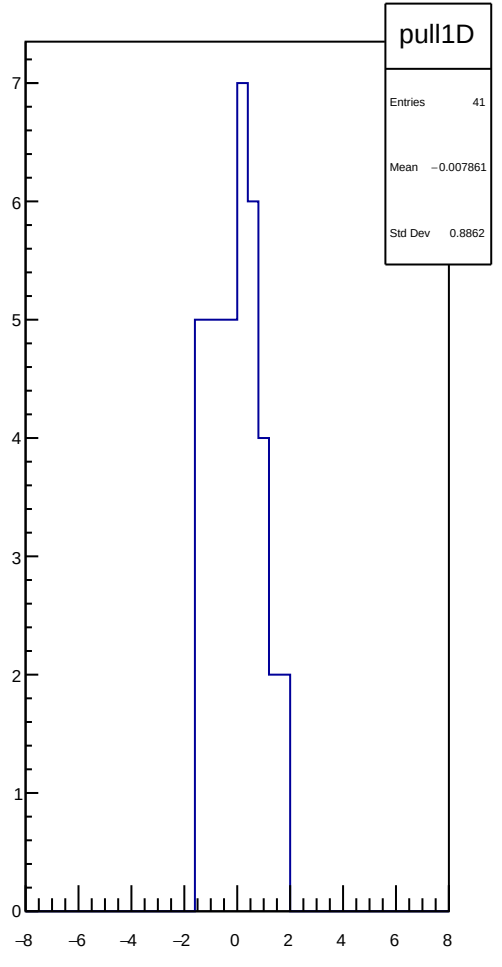

pull1D
Entries 41
Mean −0.007861
Std Dev 0.8862

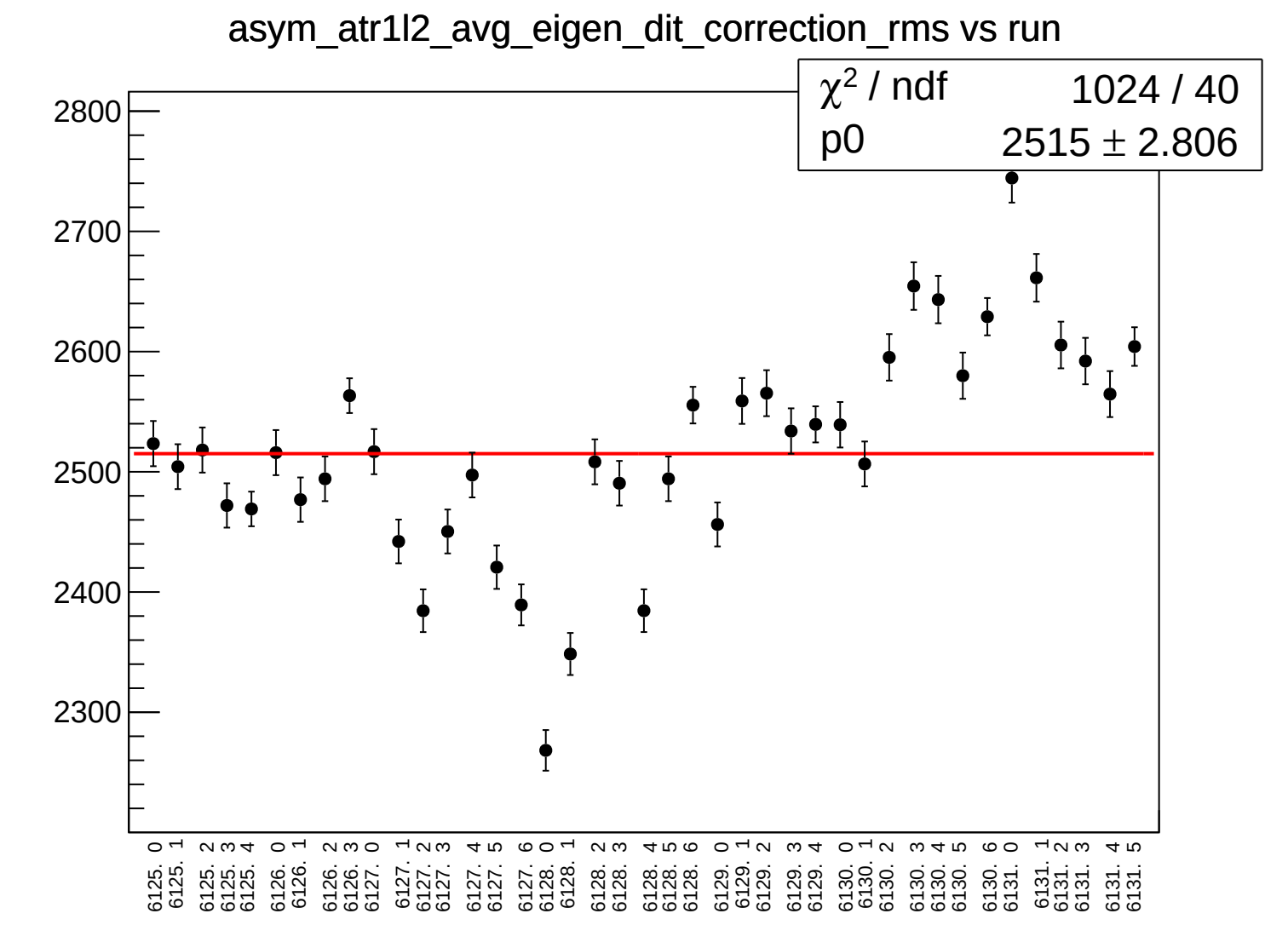

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 1024 / 40
p0 2515 ± 2.806
2800
2700
2600
2500
2400
2300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

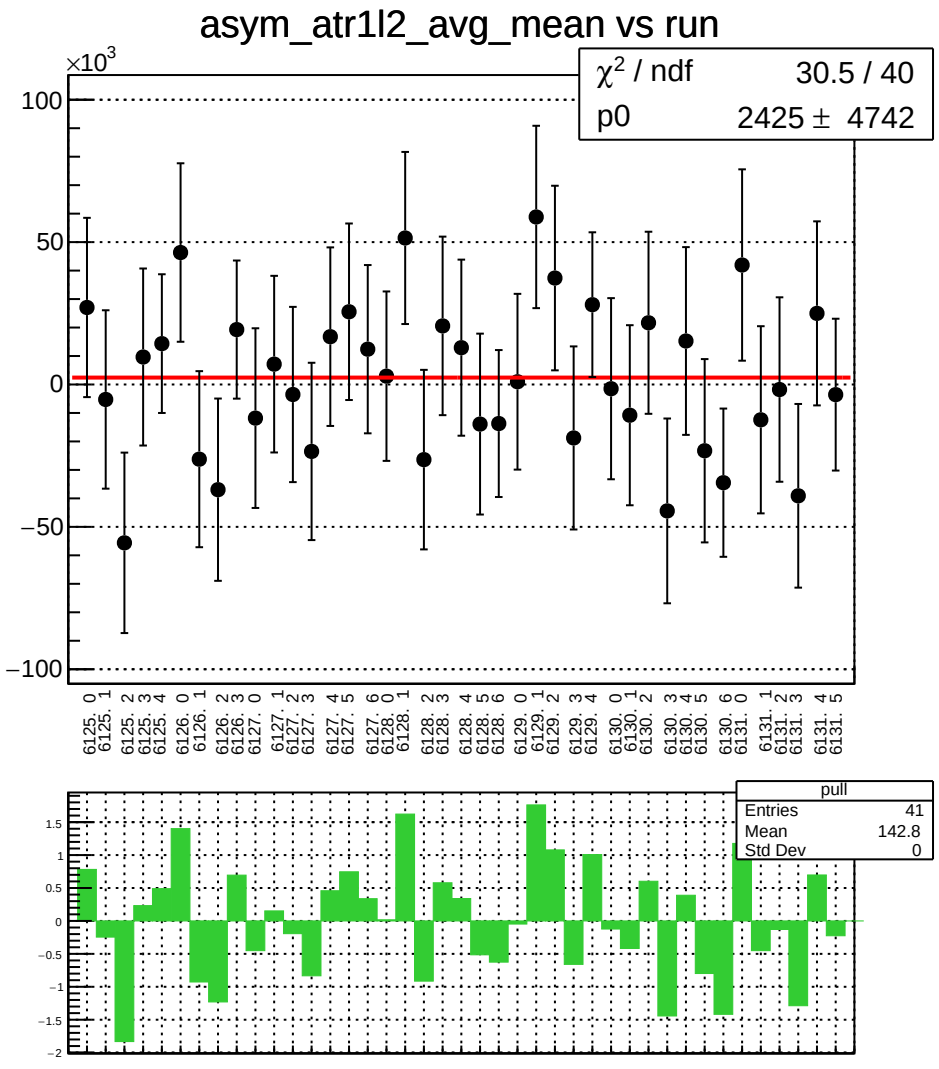

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 36.35 / 40
p0 2351 ± 2691
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 83.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.01496
Std Dev 0.9415
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

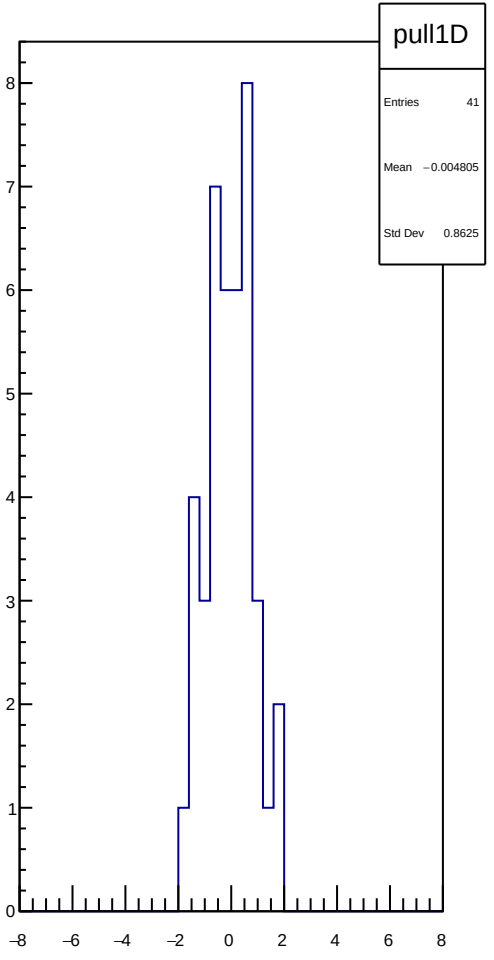

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 39.18 / 40
p0 1707 ± 1.903
1750
1740
1730
1720
1710
1700
1690
1680
1670
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

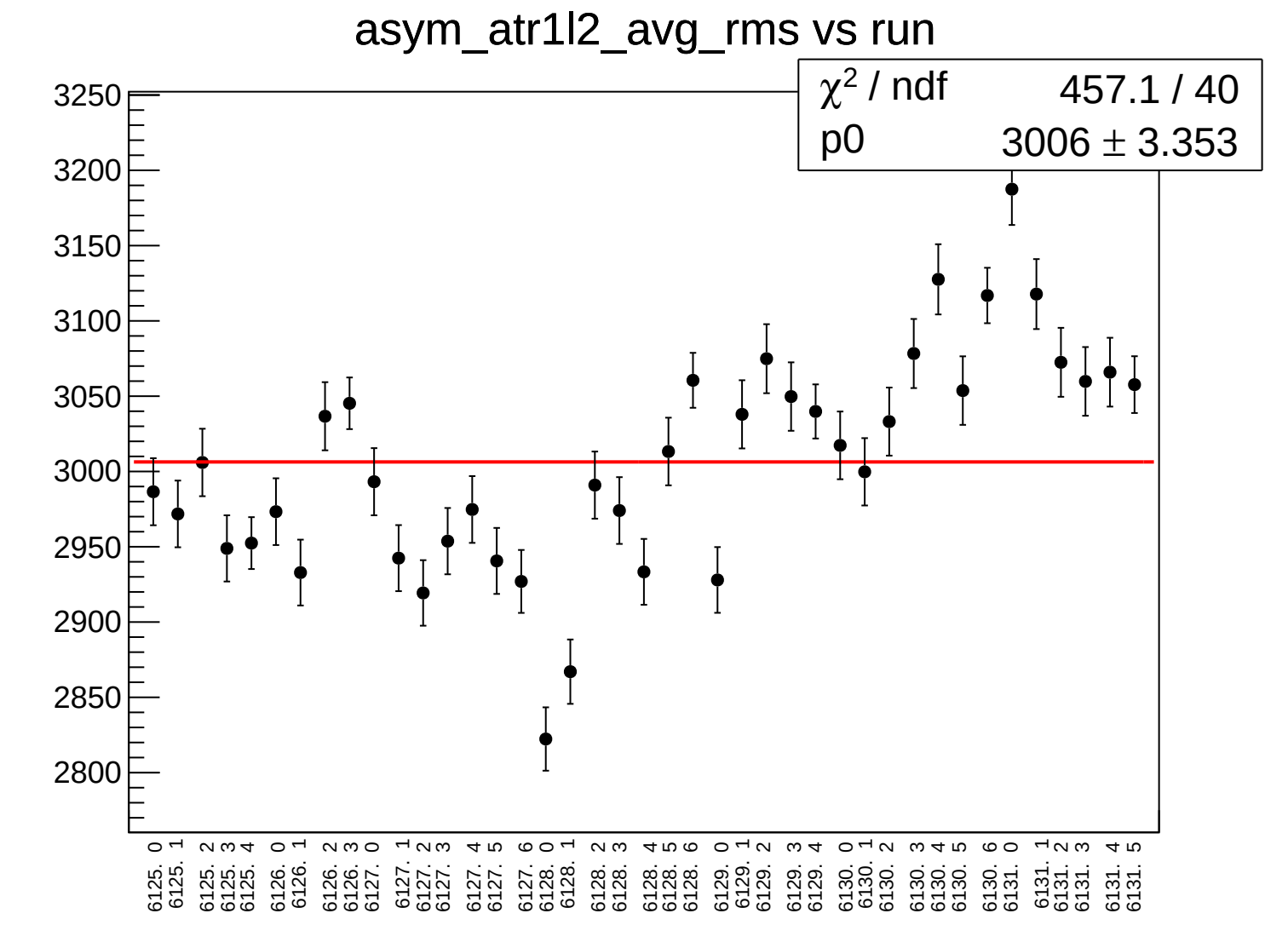

asym_atr1l2_avg_eigen_dit_correction_mean vs run
χ² / ndf 32.2 / 40
p0 103 ± 3969
pull
Entries 41
Mean 13.23
Std Dev 31.43

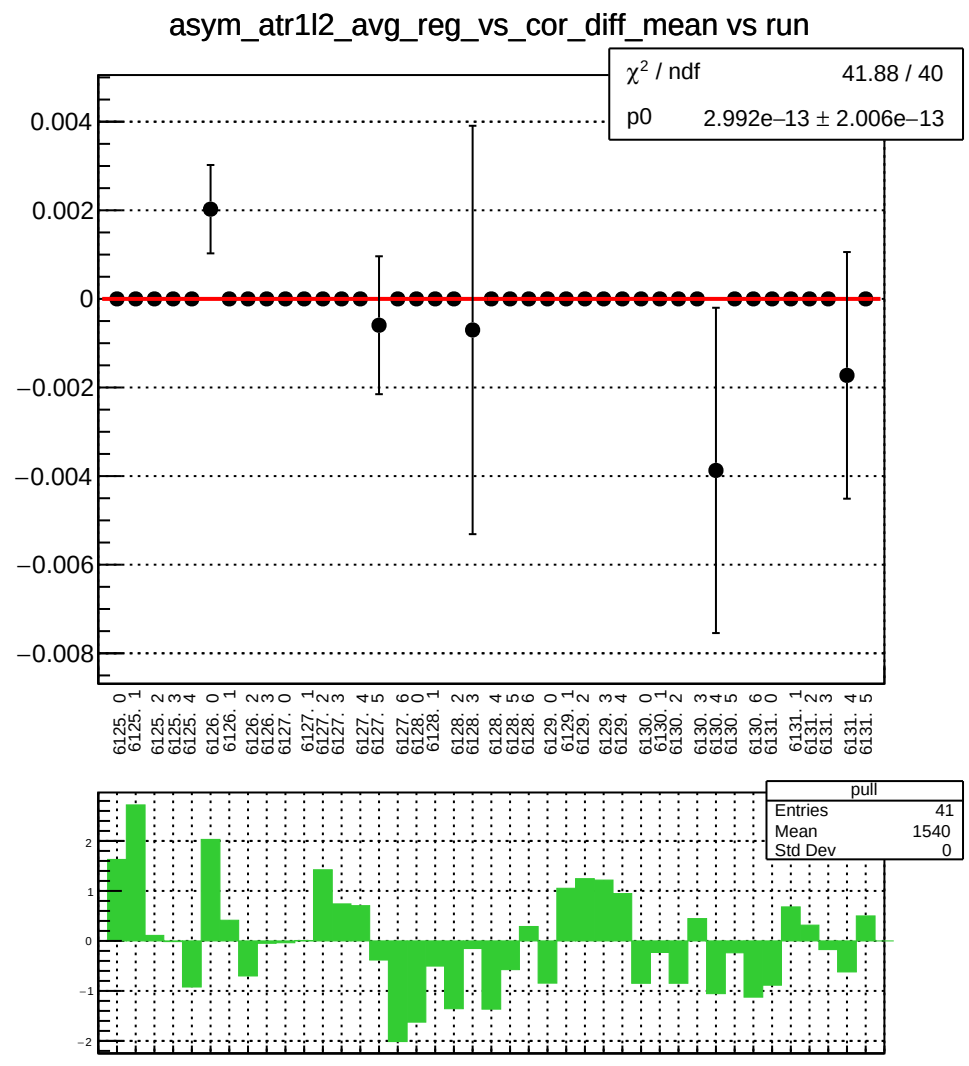

pull1D
Entries 41
Mean −0.007861
Std Dev 0.8862

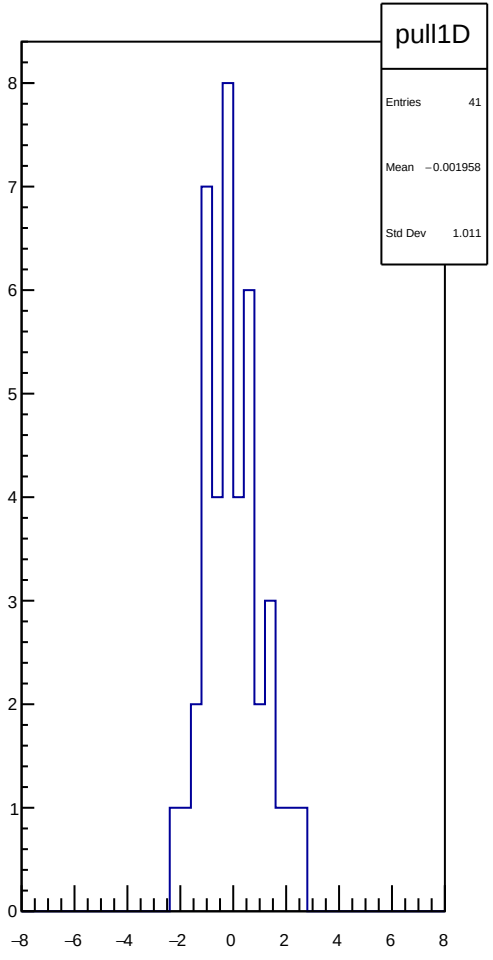

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1024 / 40
p0 2515 ± 2.806
2800
2700
2600
2500
2400
2300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

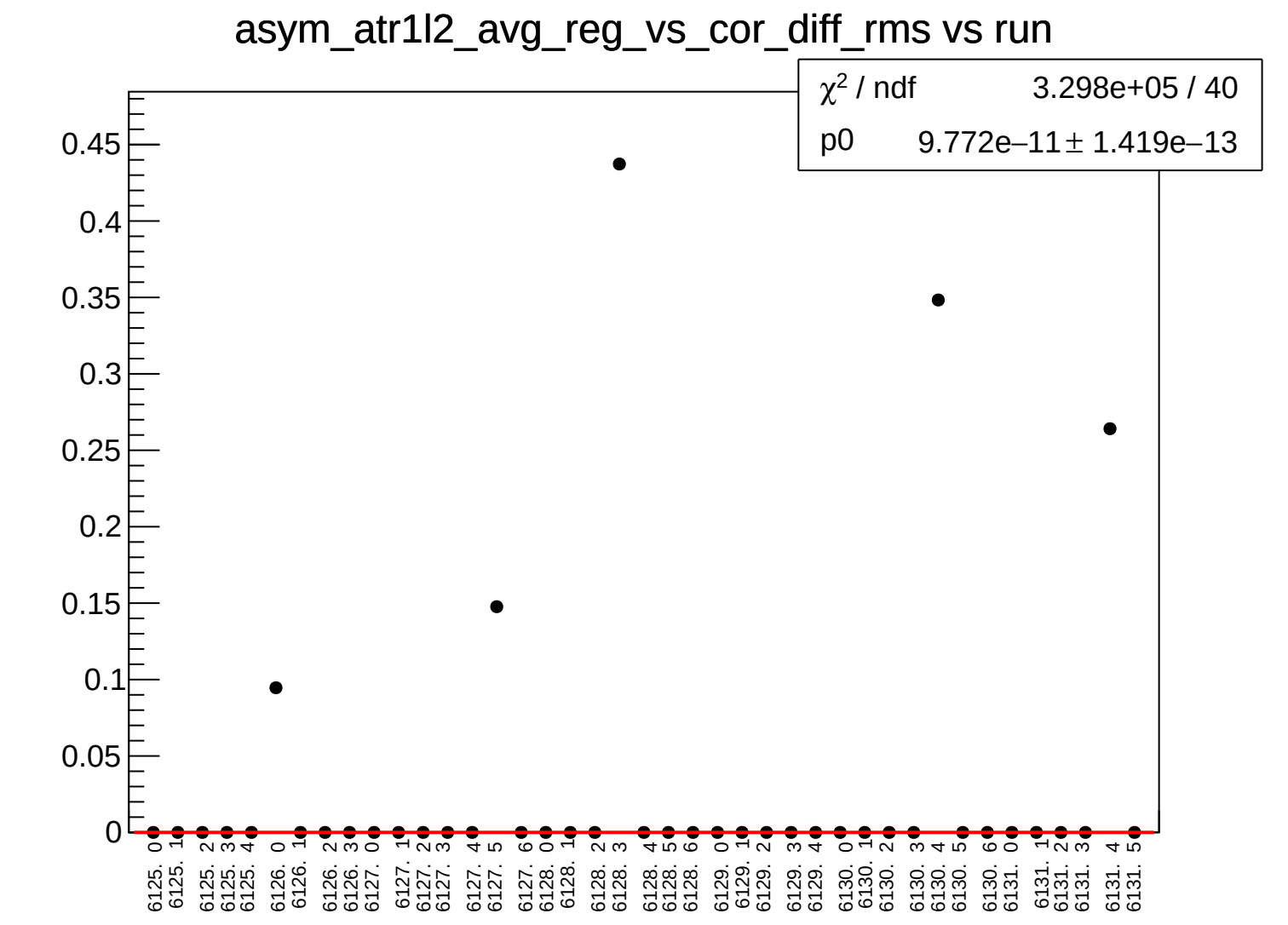

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 30.5 / 40
p0 2425 ± 4742
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 142.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

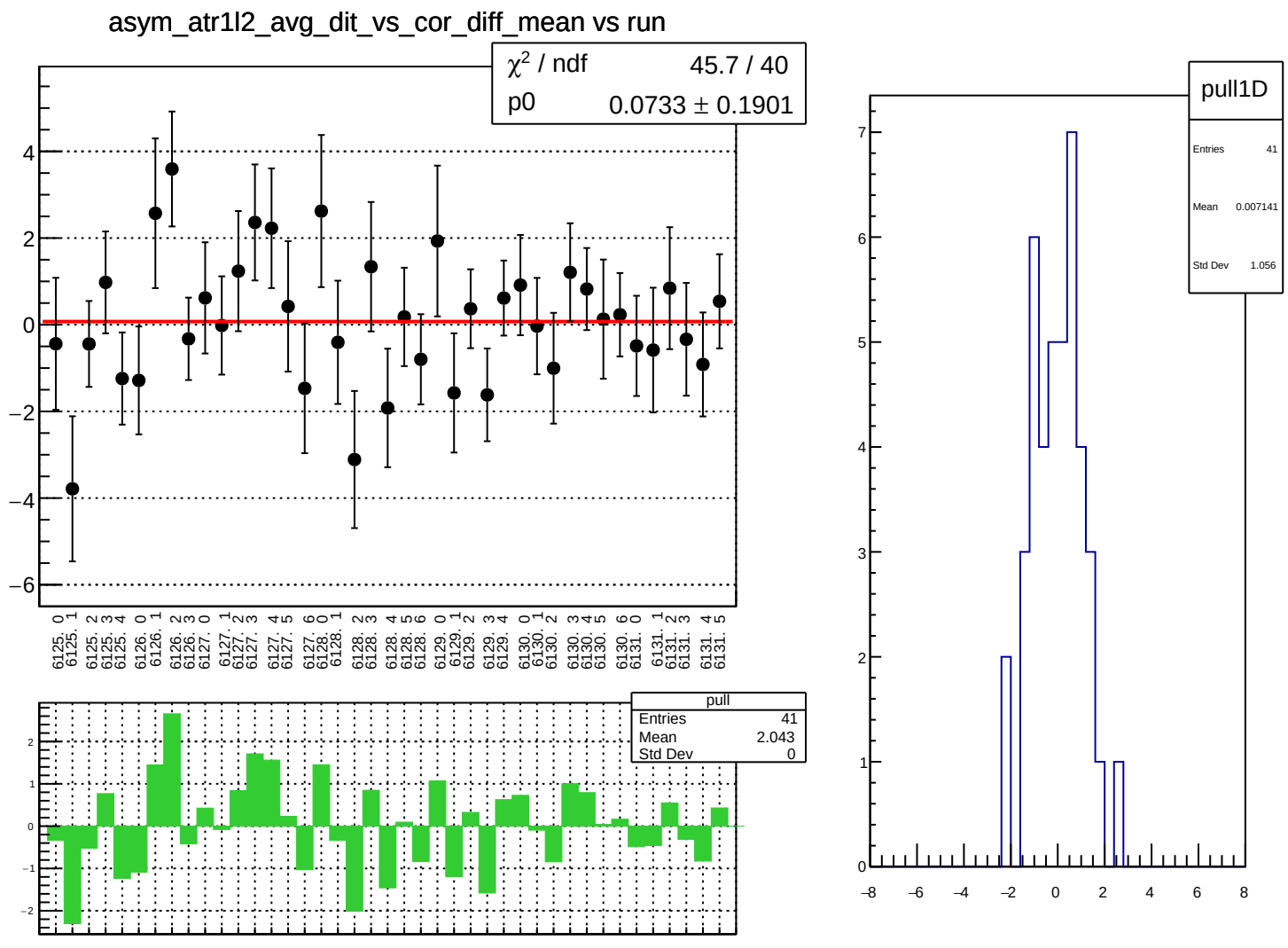

pull1D
Entries 41
Mean −0.004805
Std Dev 0.8625
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

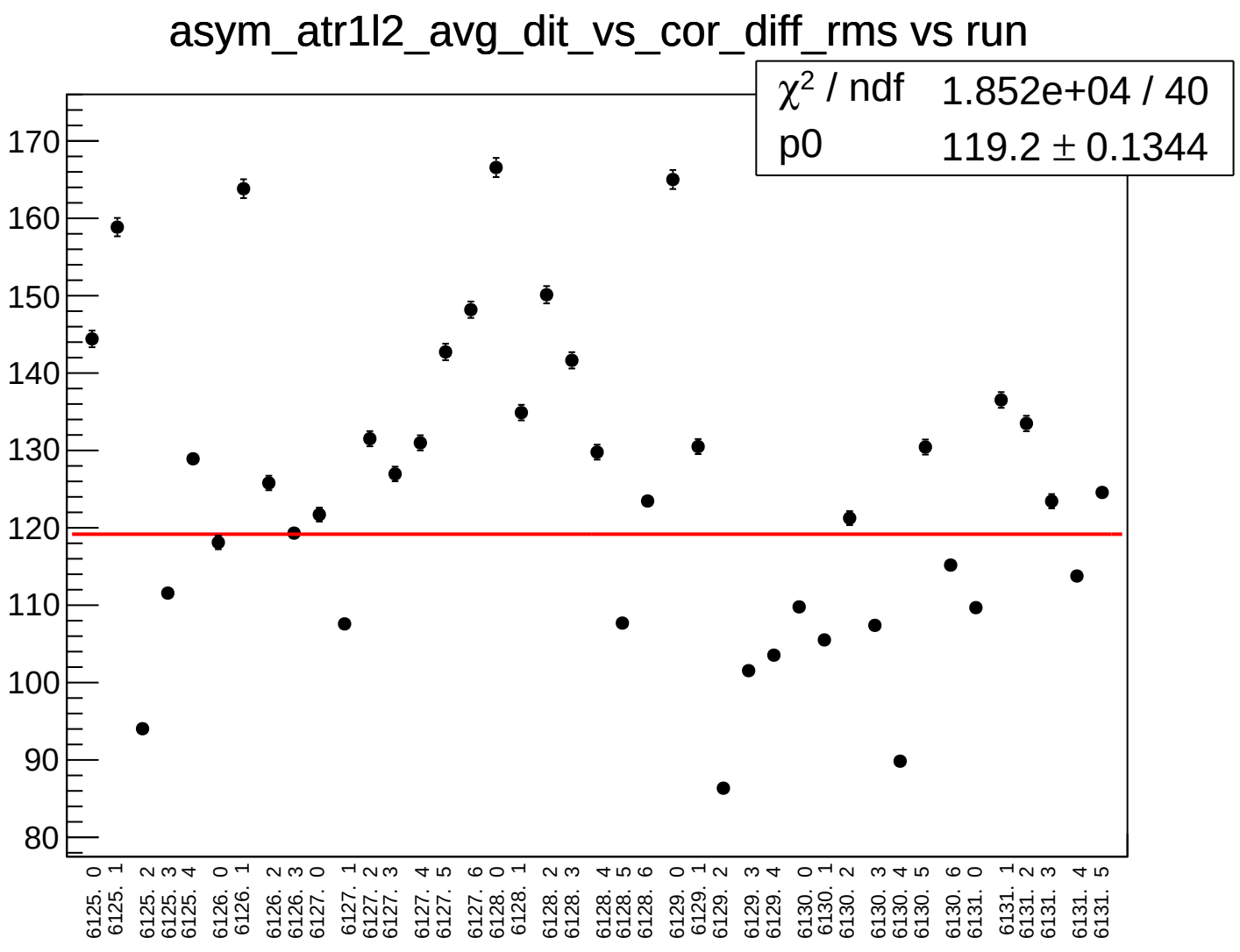

asym_atr1l2_avg_rms vs run
χ² / ndf 457.1 / 40
p0 3006 ± 3.353
3250
3200
3150
3100
3050
3000
2950
2900
2850
2800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 41.88 / 40
p0 2.992e−13 ± 2.006e−13
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1540
Std Dev 0
2
1
0
−1
−2

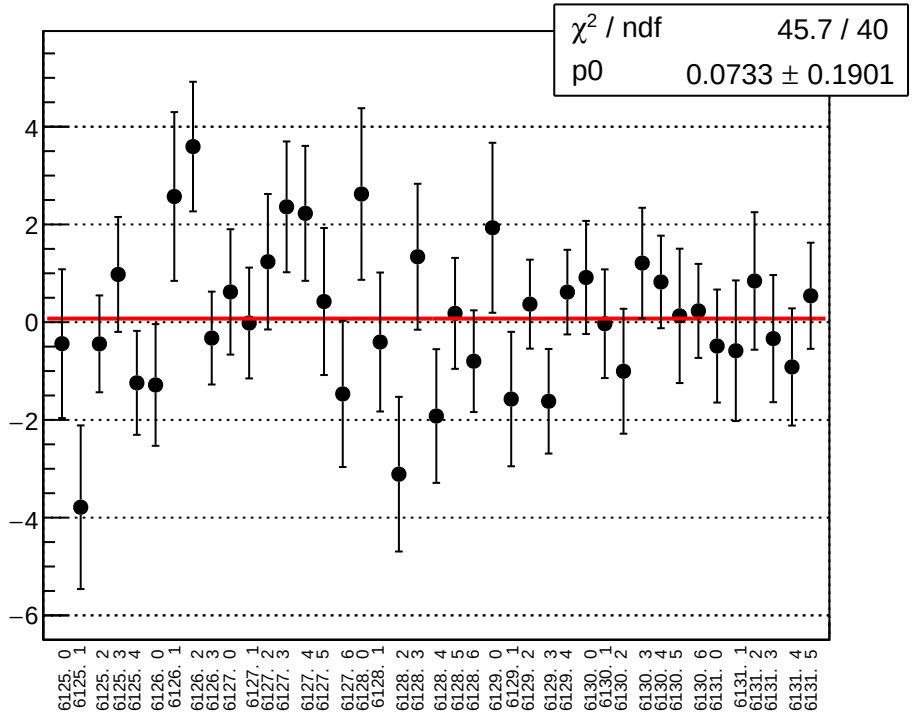

pull1D
Entries 41
Mean −0.001958
Std Dev 1.011
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

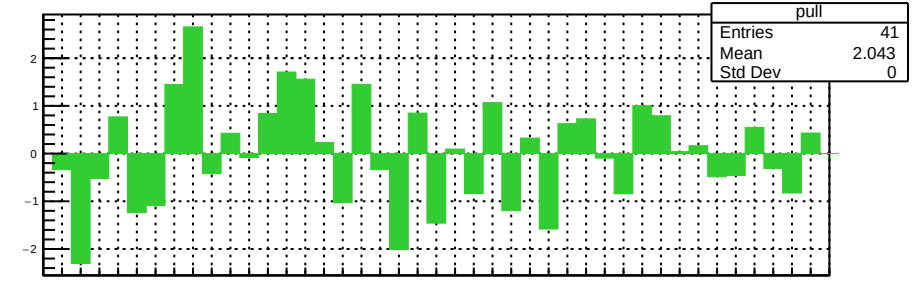

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.298e+05 / 40
p0 9.772e−11 ± 1.419e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

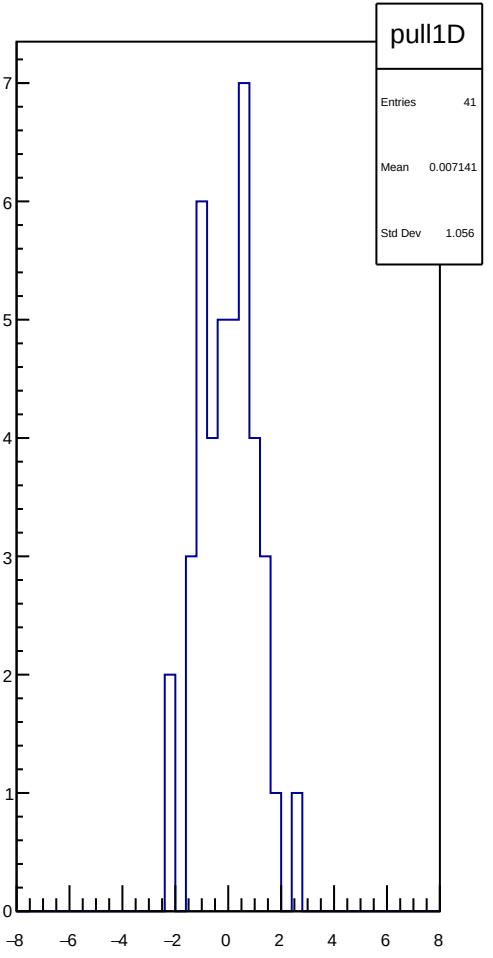

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 45.7 / 40
p0 0.0733 ± 0.1901
pull
Entries 41
Mean 2.043
Std Dev 0
pull1D
Entries 41
Mean 0.007141
Std Dev 1.056

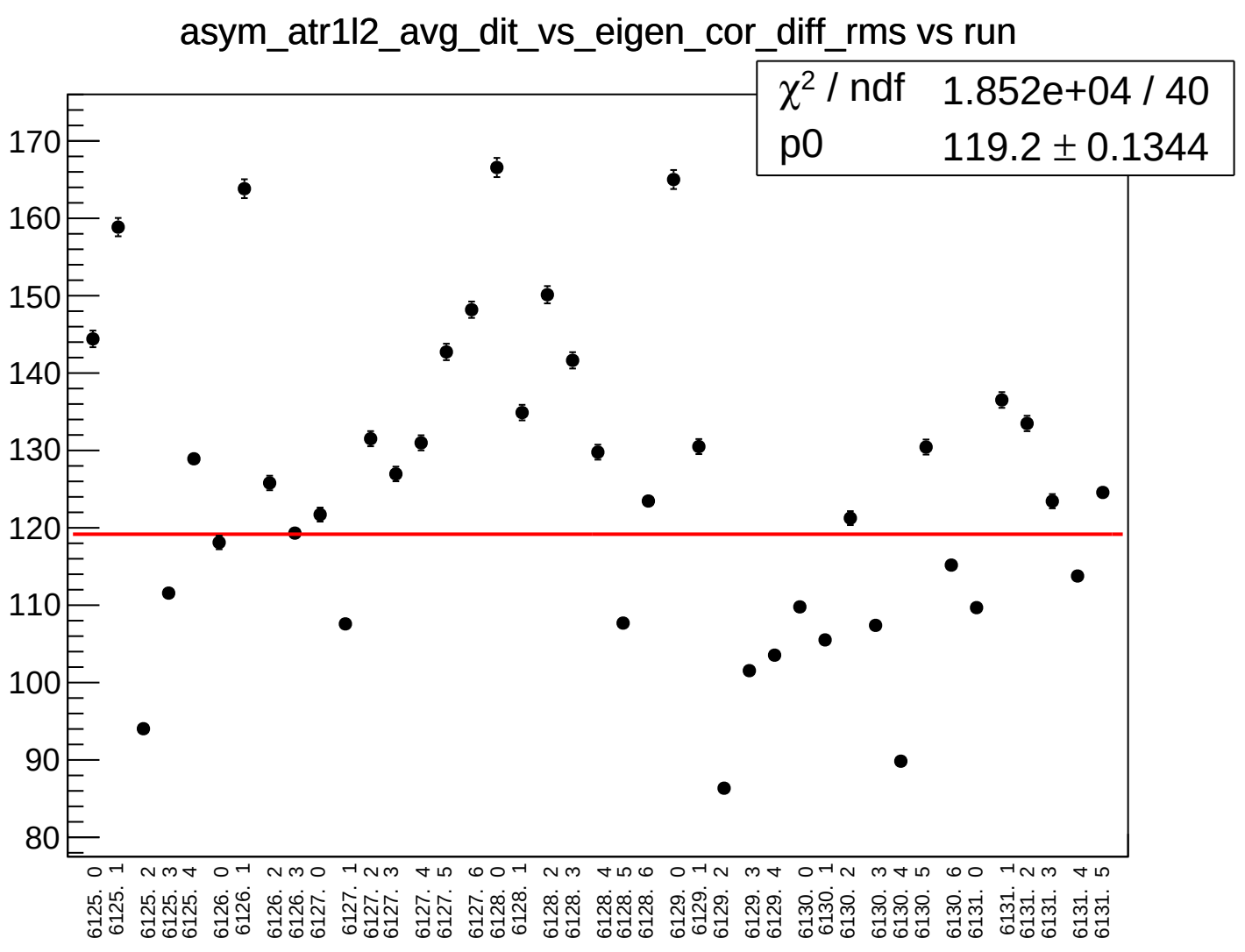

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.852e+04 / 40
p0 119.2 ± 0.1344
170
160
150
140
130
120
110
100
90
80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

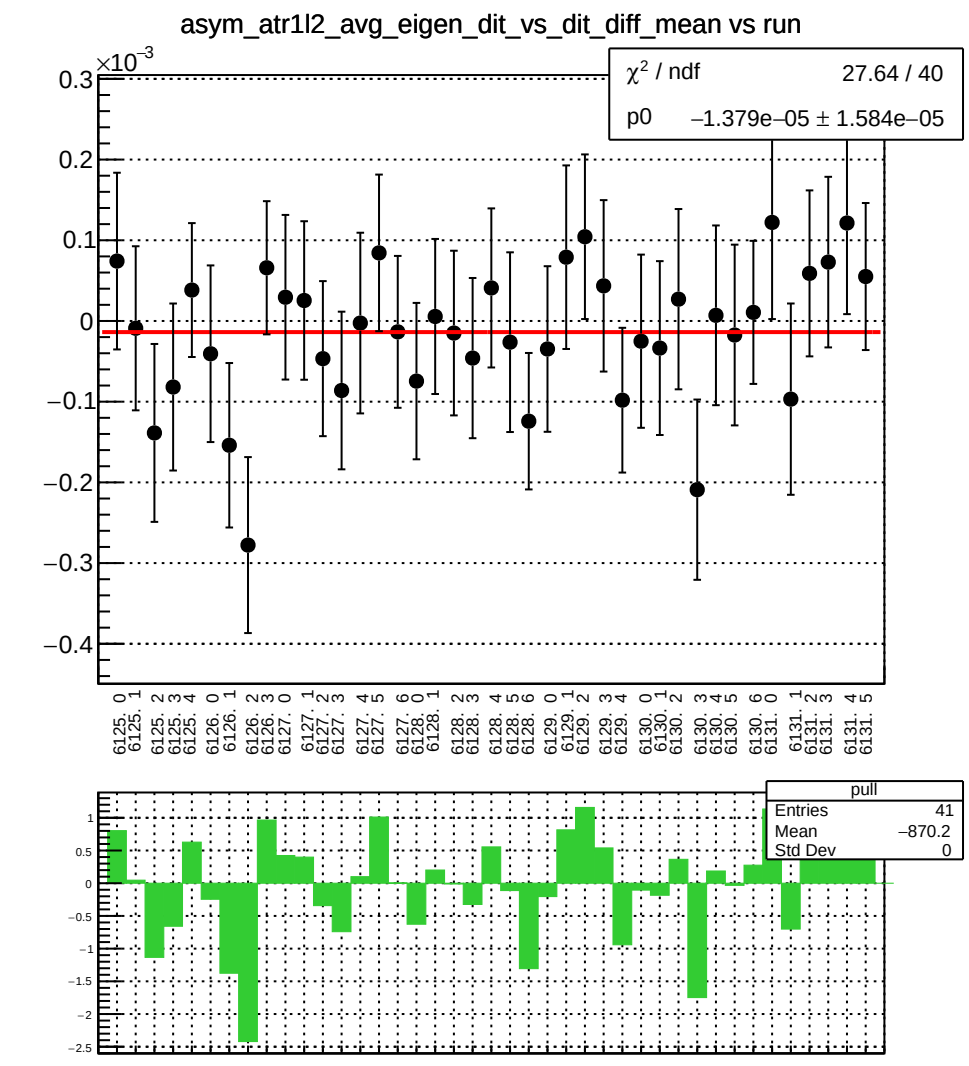
asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run

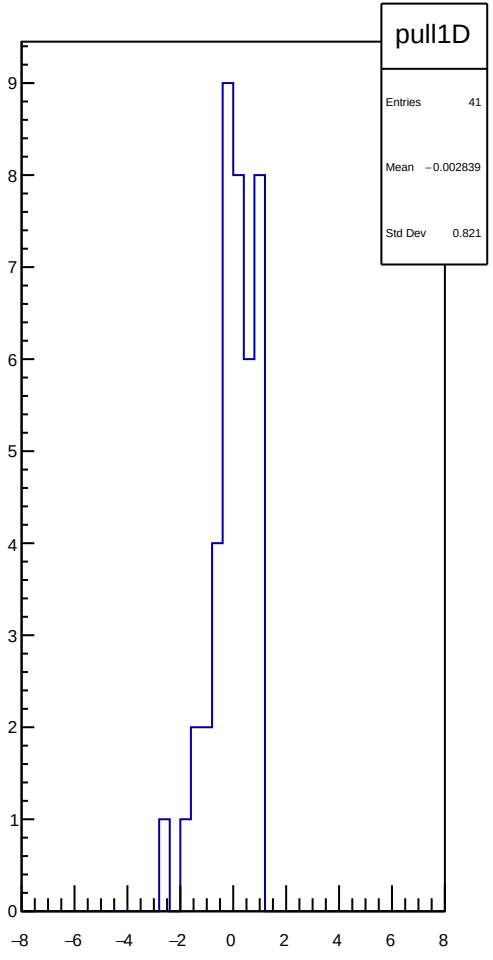


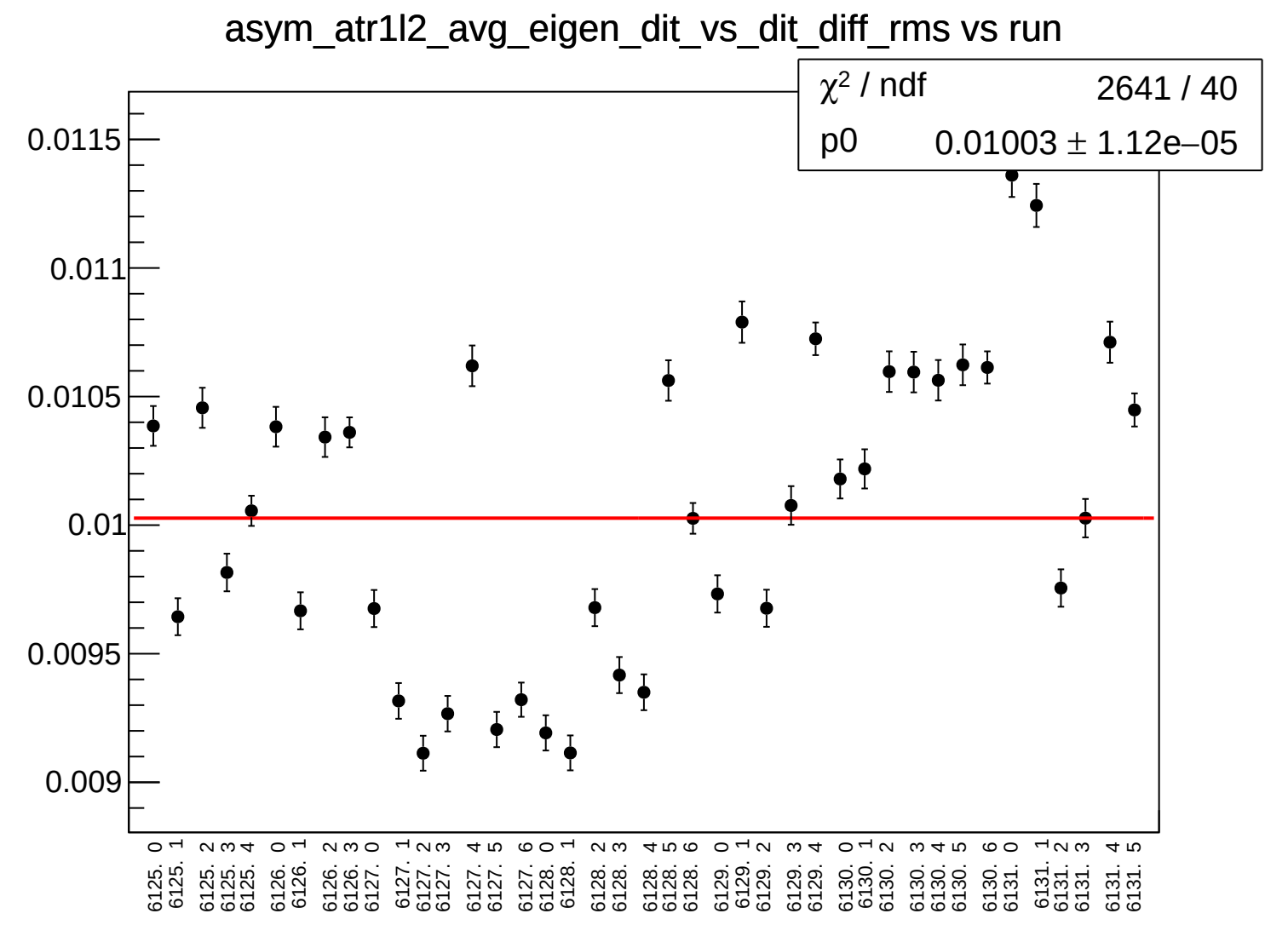


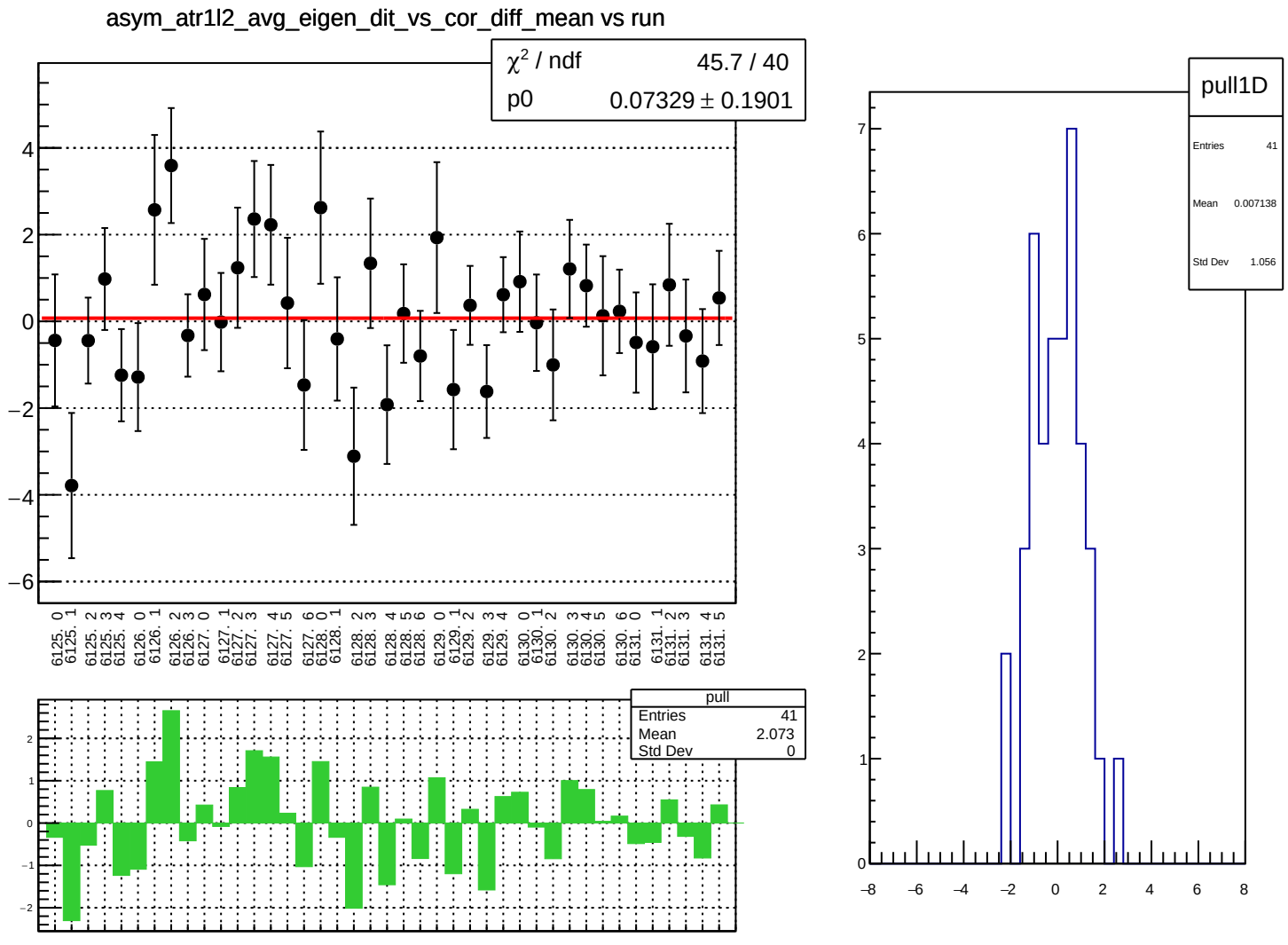


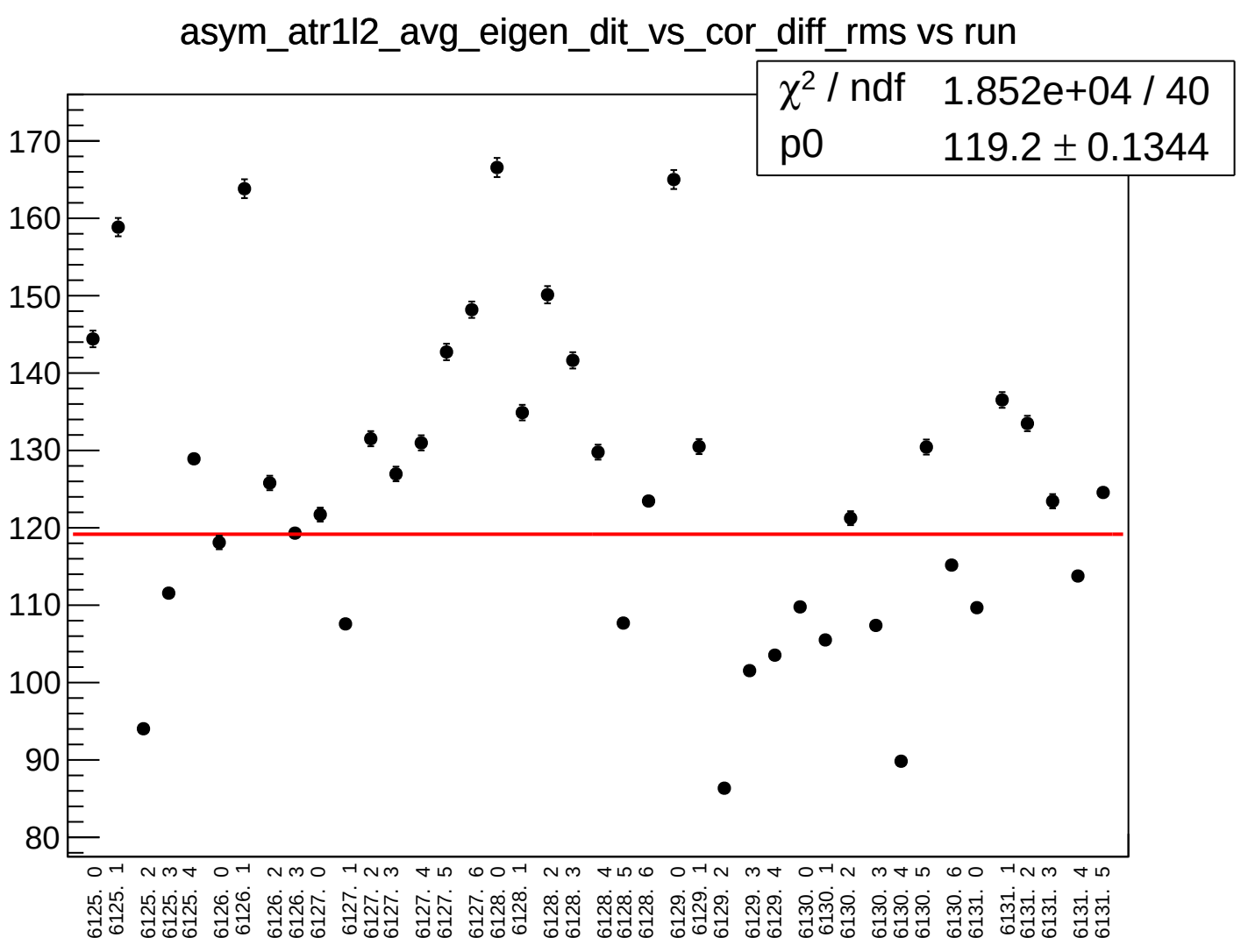

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.852e+04 / 40
p0 119.2 ± 0.1344
170
160
150
140
130
120
110
100
90
80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 27.64 / 40
p0 −1.379e−05 ± 1.584e−05
pull
Entries 41
Mean −870.2
Std Dev 0

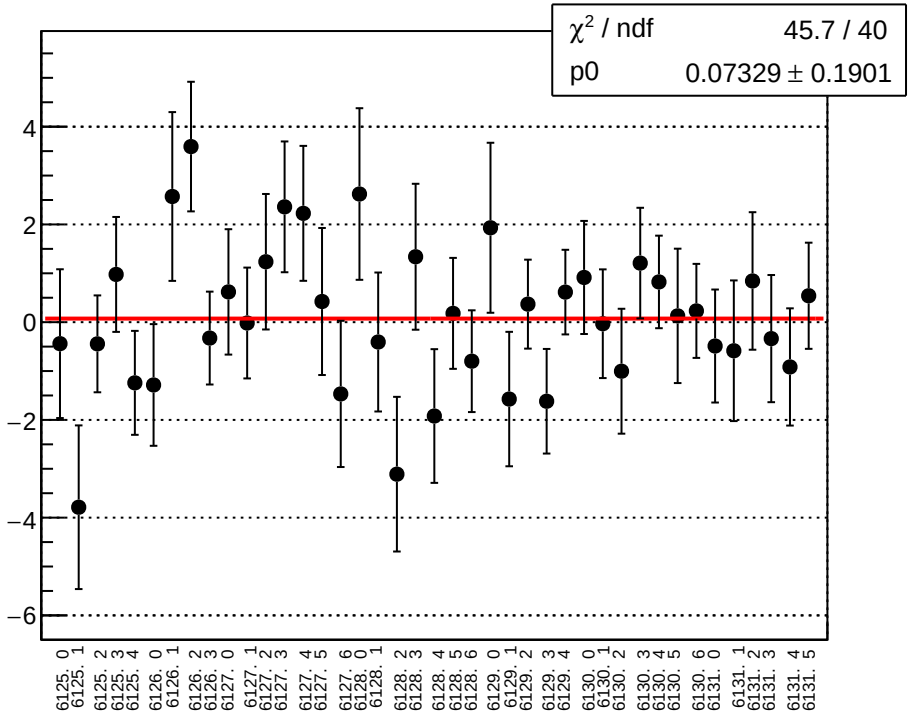

pull1D
Entries 41
Mean −0.002839
Std Dev 0.821

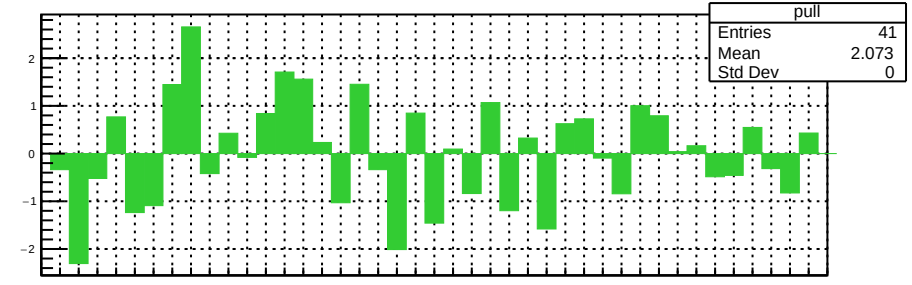

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2641 / 40
p0 0.01003 ± 1.12e−05
0.0115
0.011
0.0105
0.01
0.0095
0.009
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

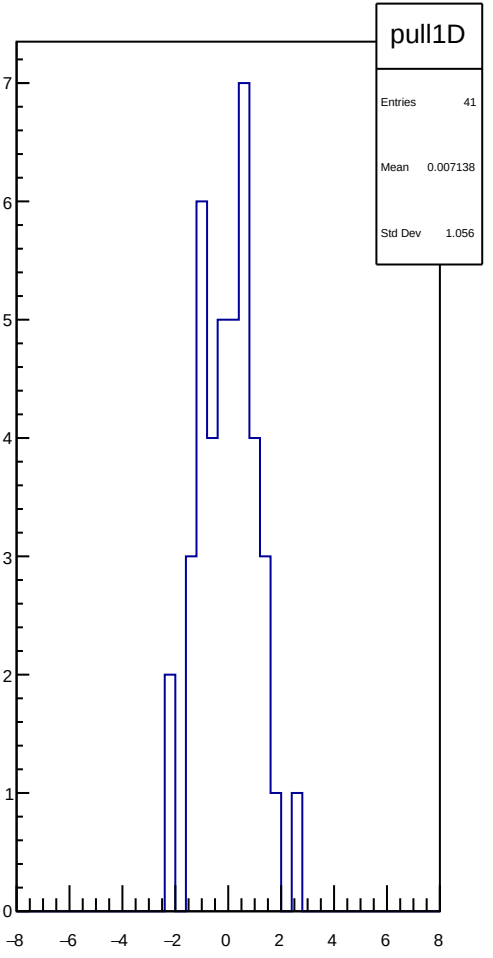

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 45.7 / 40
p0 0.07329 ± 0.1901
pull
Entries 41
Mean 2.073
Std Dev 0
pull1D
Entries 41
Mean 0.007138
Std Dev 1.056

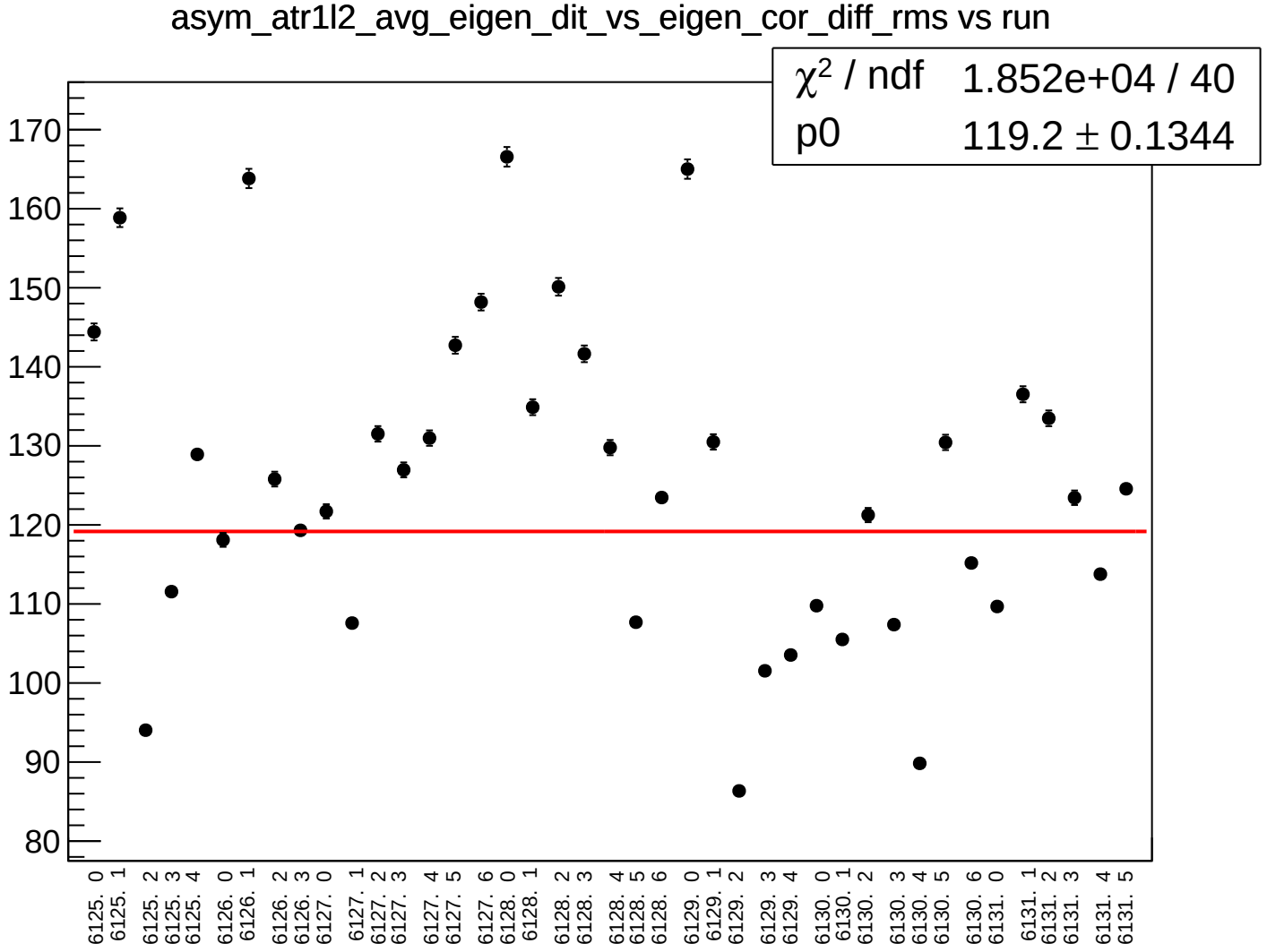

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.852e+04 / 40
p0 119.2 ± 0.1344
170
160
150
140
130
120
110
100
90
80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

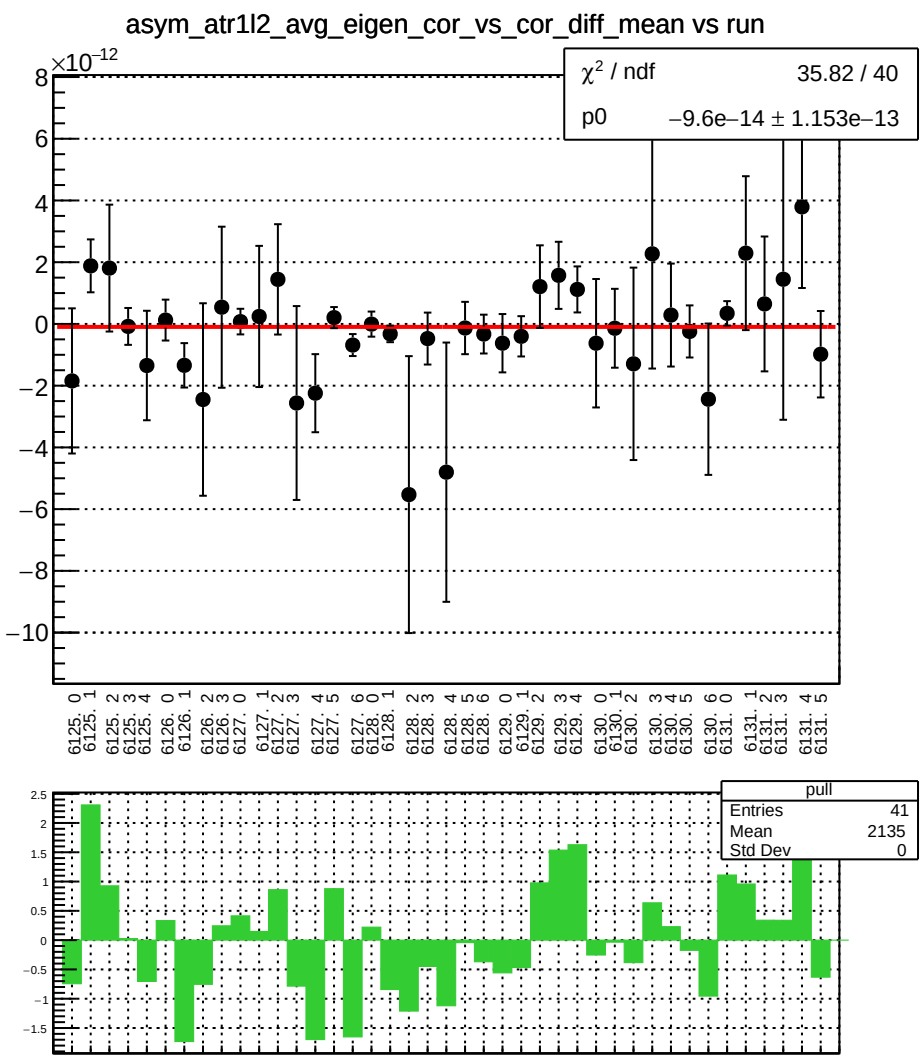
asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

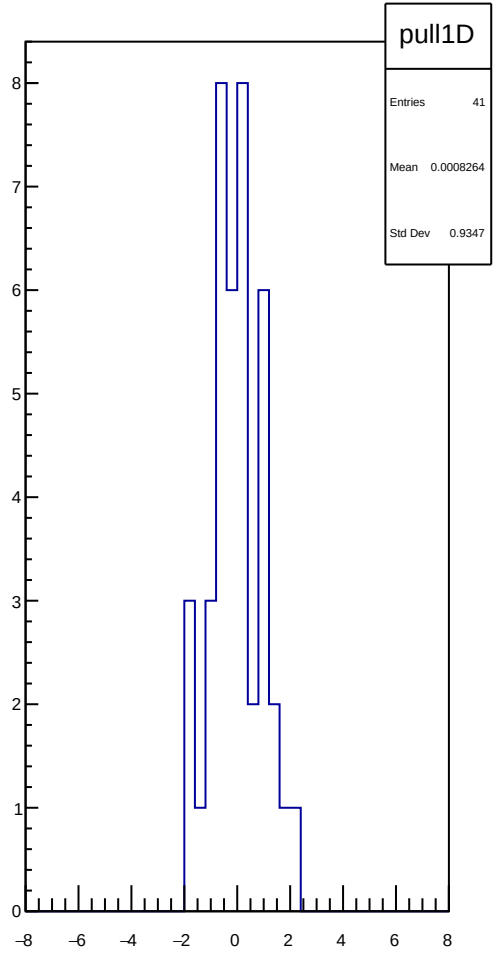


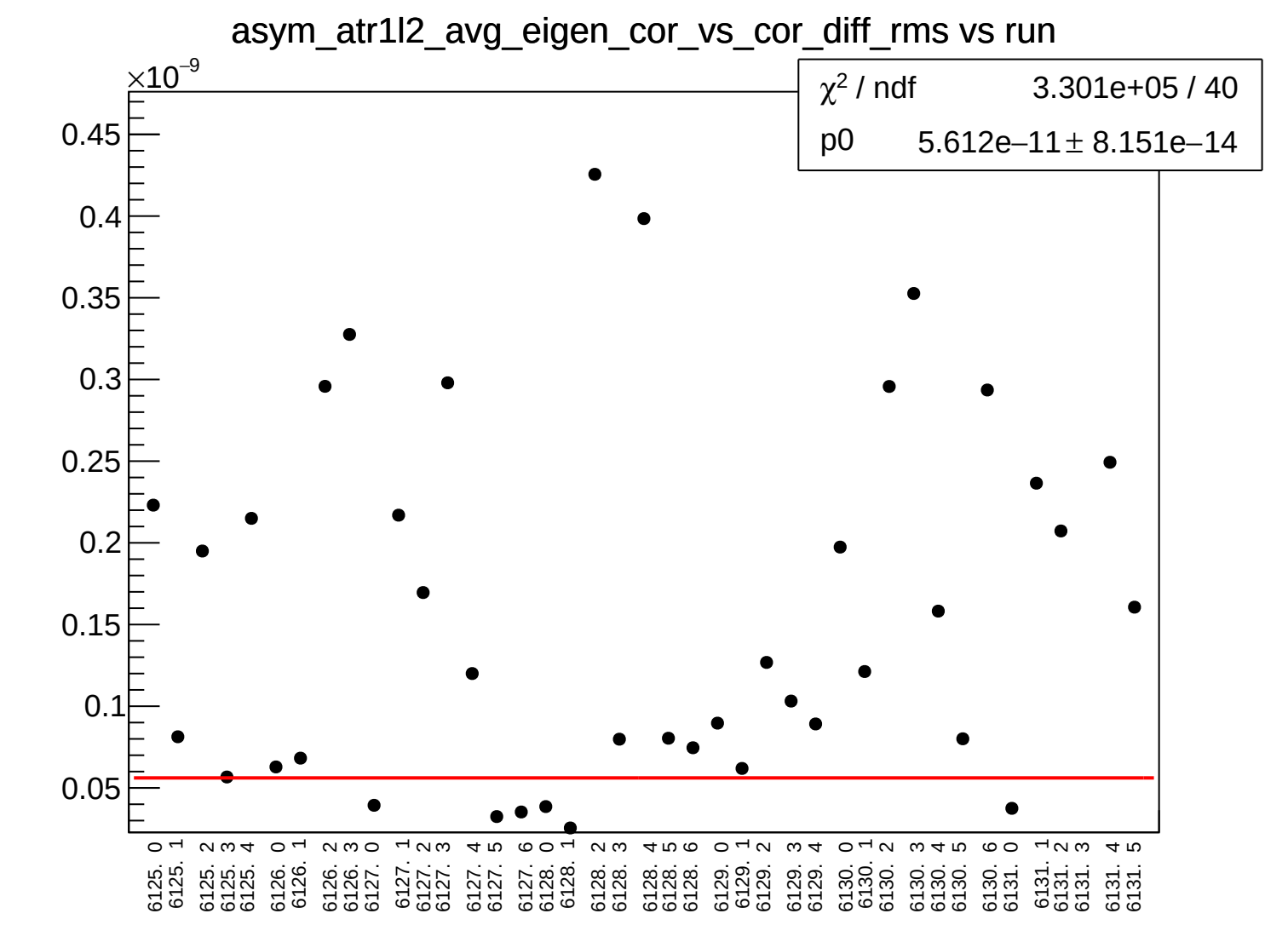


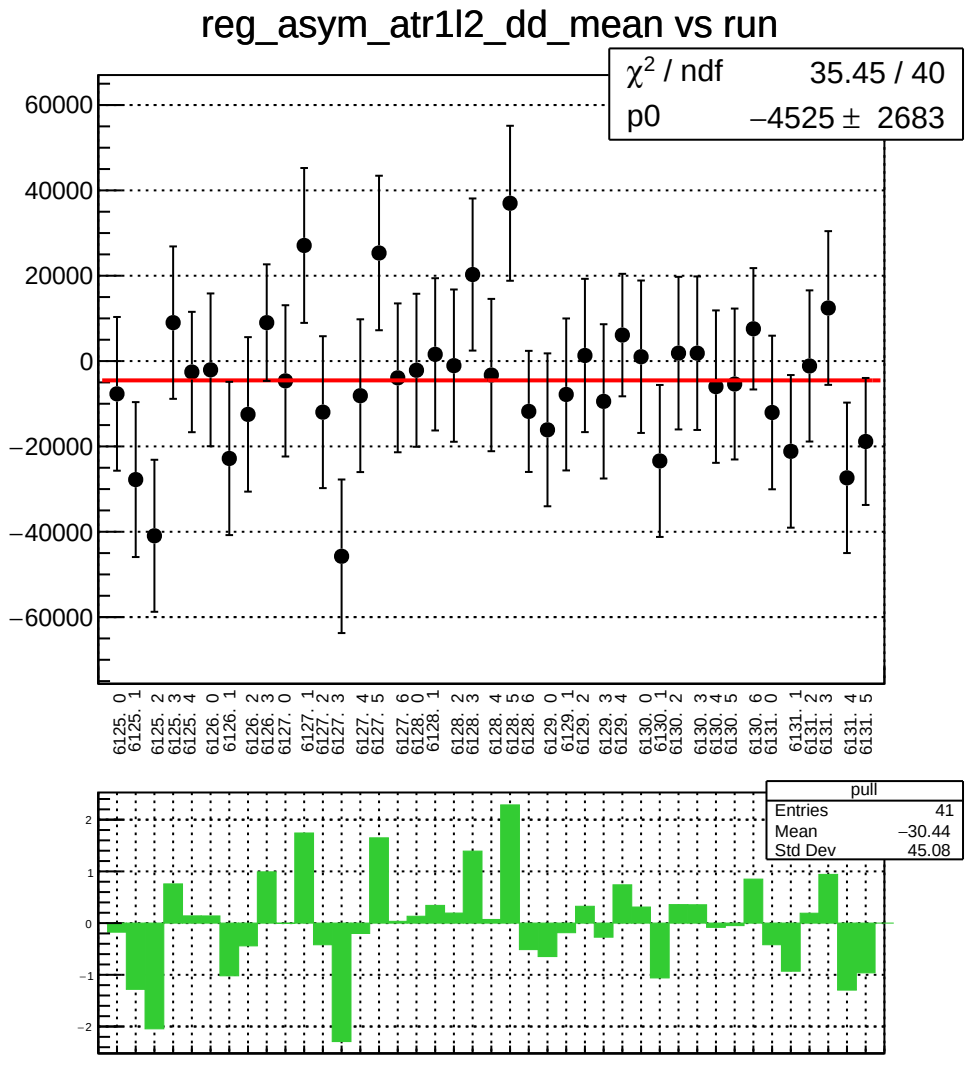


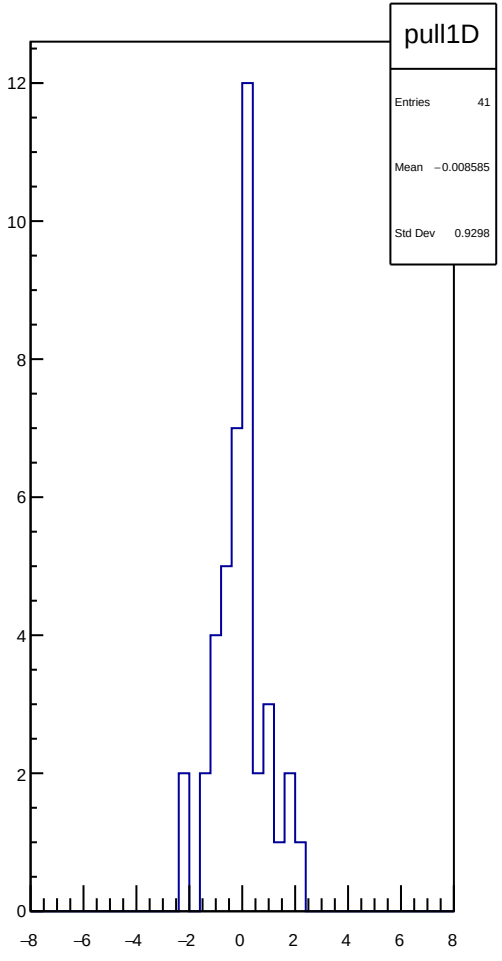

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.852e+04 / 40
p0 119.2 ± 0.1344
170
160
150
140
130
120
110
100
90
80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

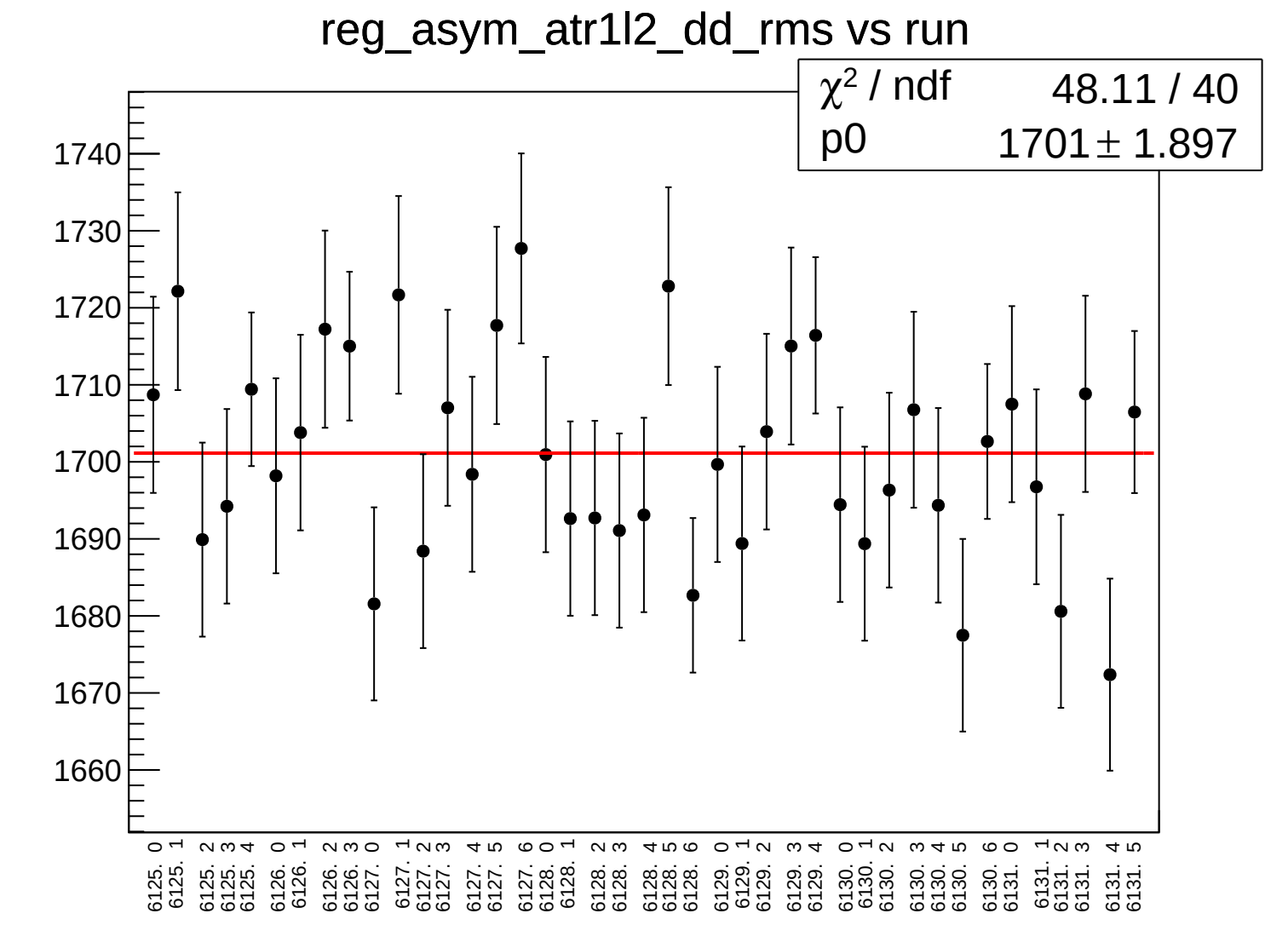

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 35.82 / 40
p0 −9.6e−14 ± 1.153e−13
pull
Entries 41
Mean 2135
Std Dev 0

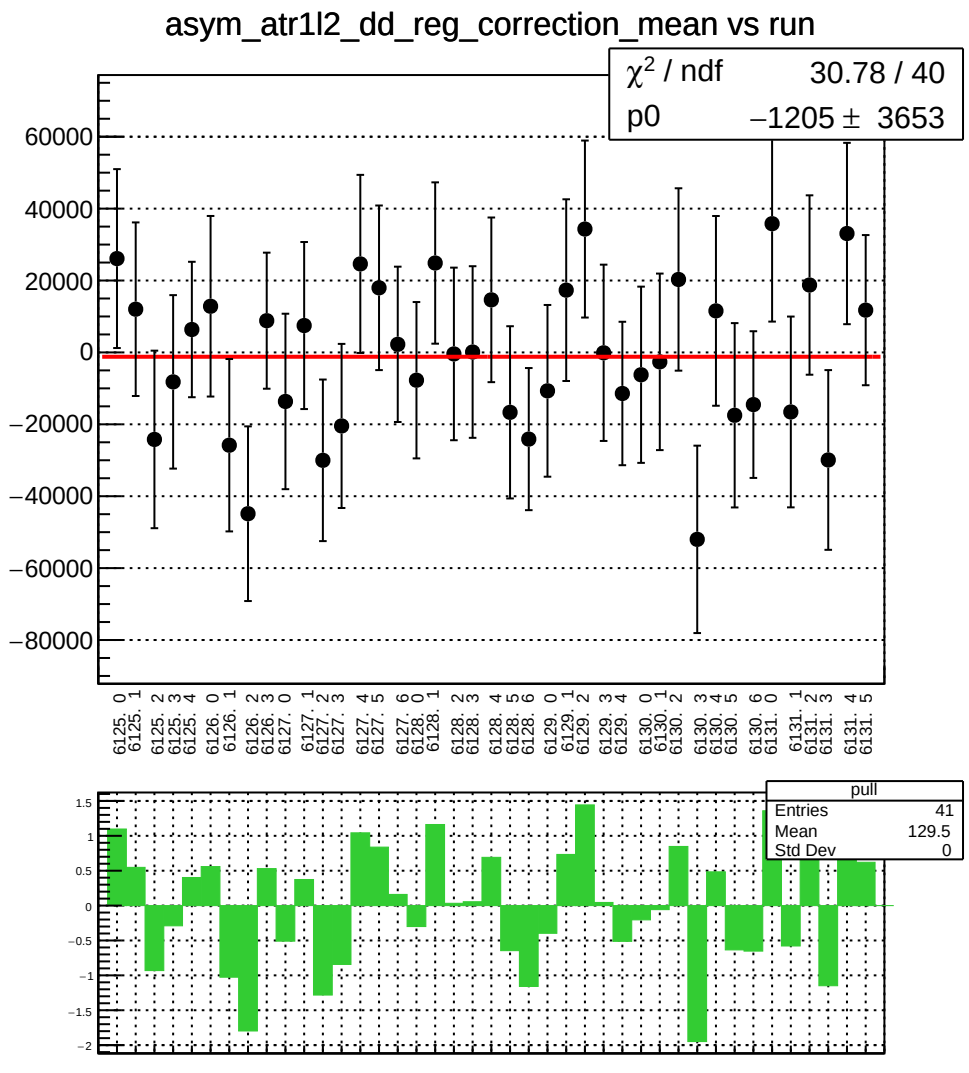

pull1D
Entries 41
Mean 0.0008264
Std Dev 0.9347

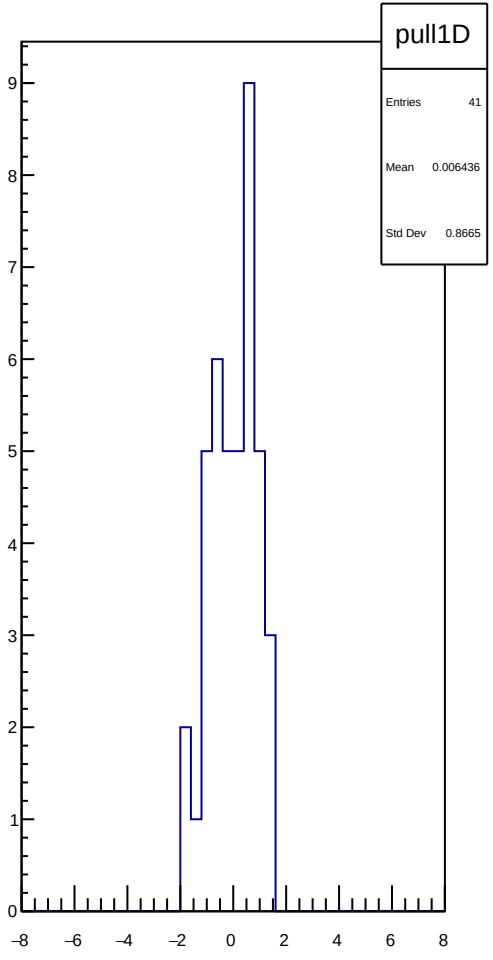

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.301e+05 / 40
p0 5.612e−11 ± 8.151e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

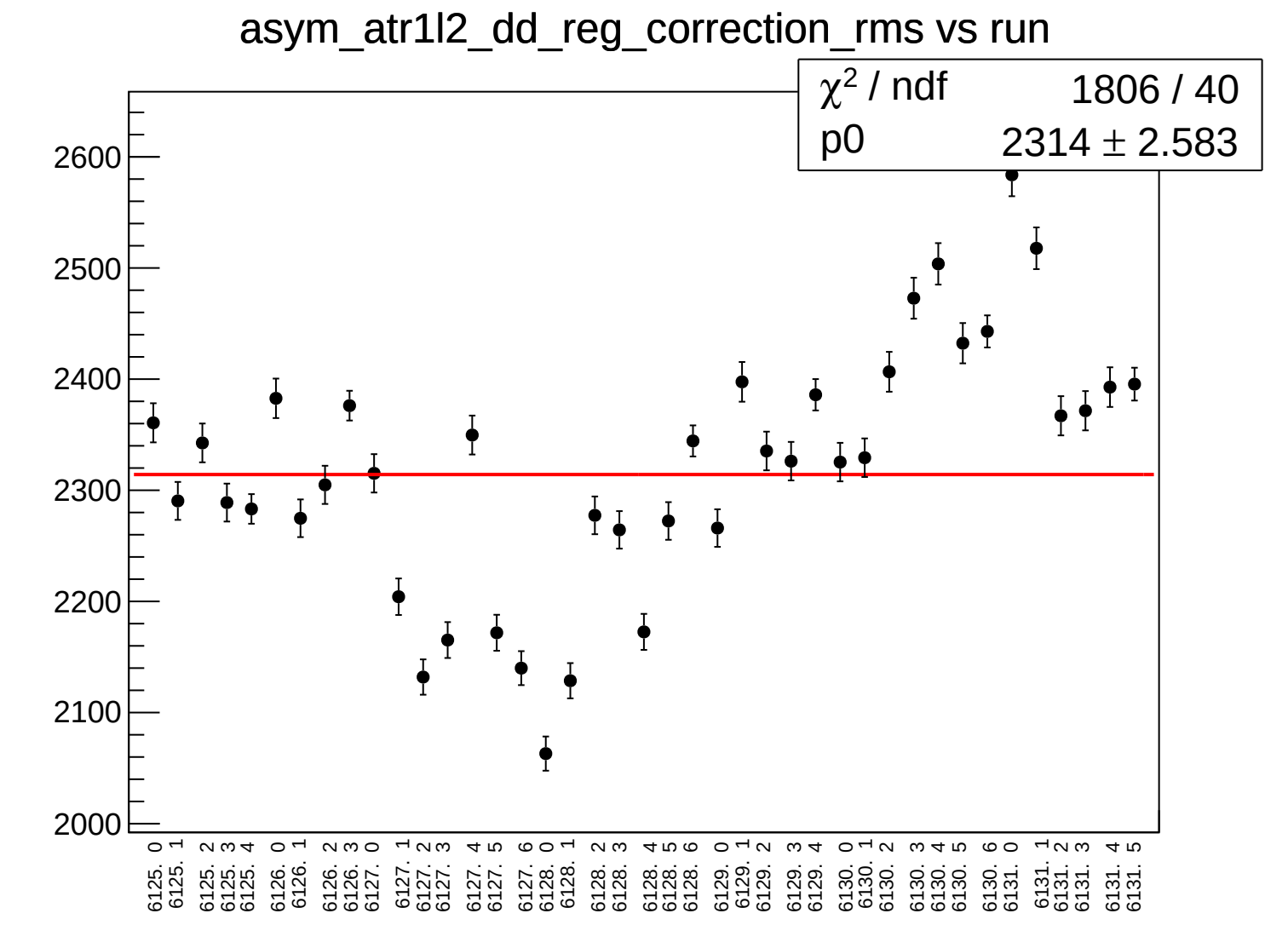

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 35.45 / 40
p0 −4525 ± 2683
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −30.44
Std Dev 45.08
2
1
0
−1
−2

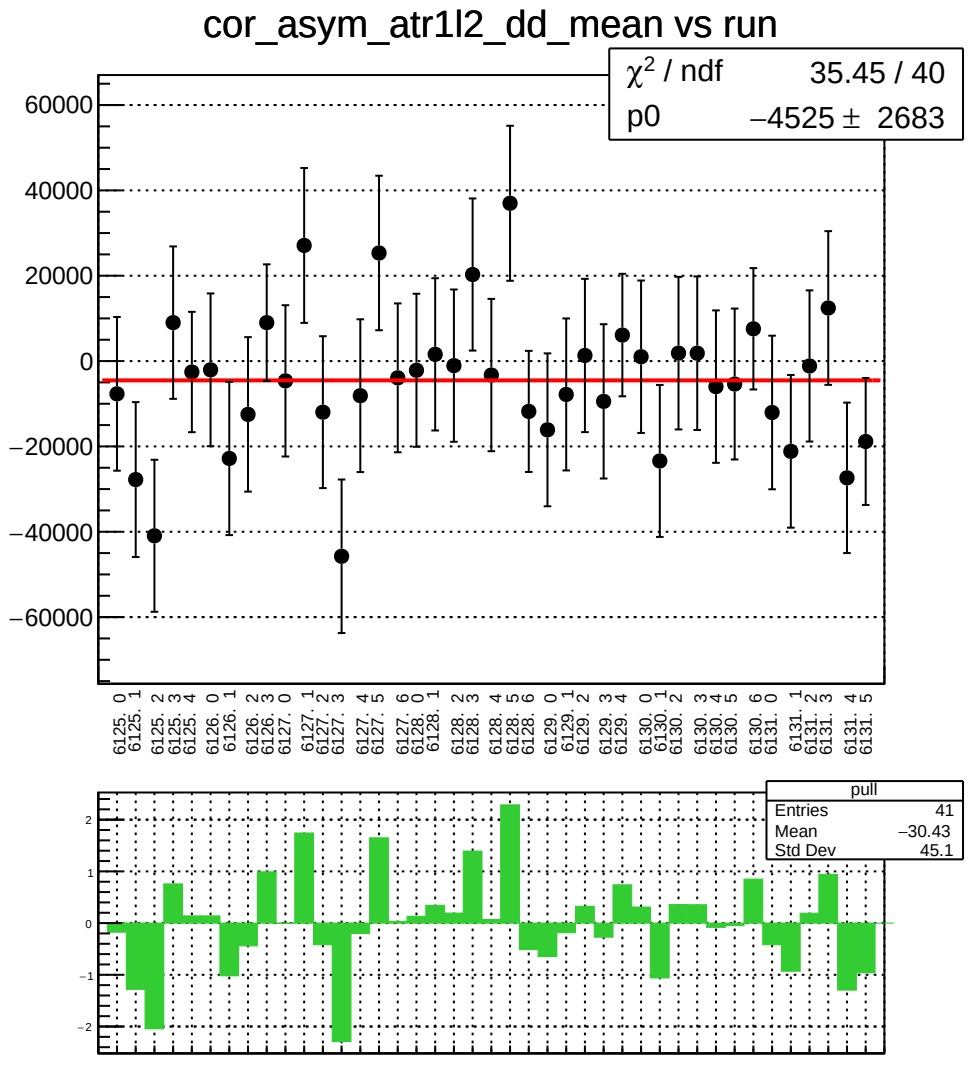

pull1D
Entries 41
Mean −0.008585
Std Dev 0.9298
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

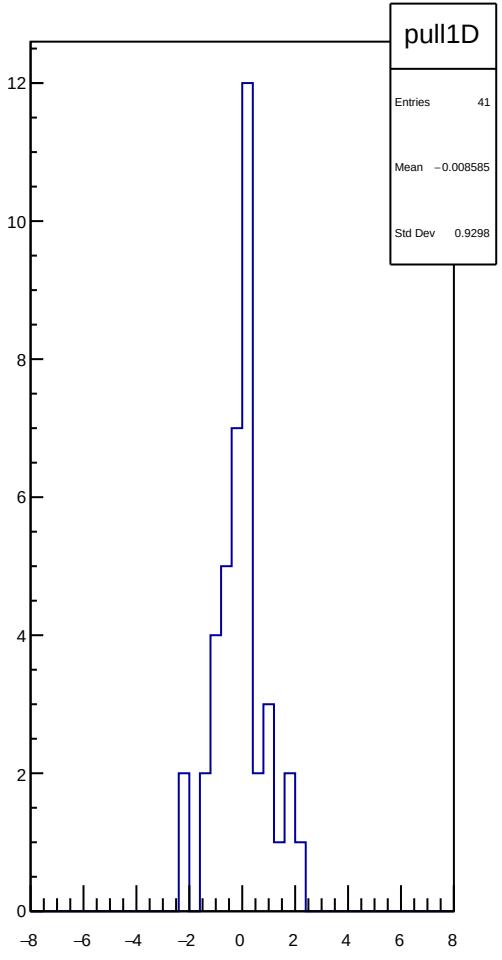

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 48.11 / 40
p0 1701 ± 1.897
1740
1730
1720
1710
1700
1690
1680
1670
1660
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

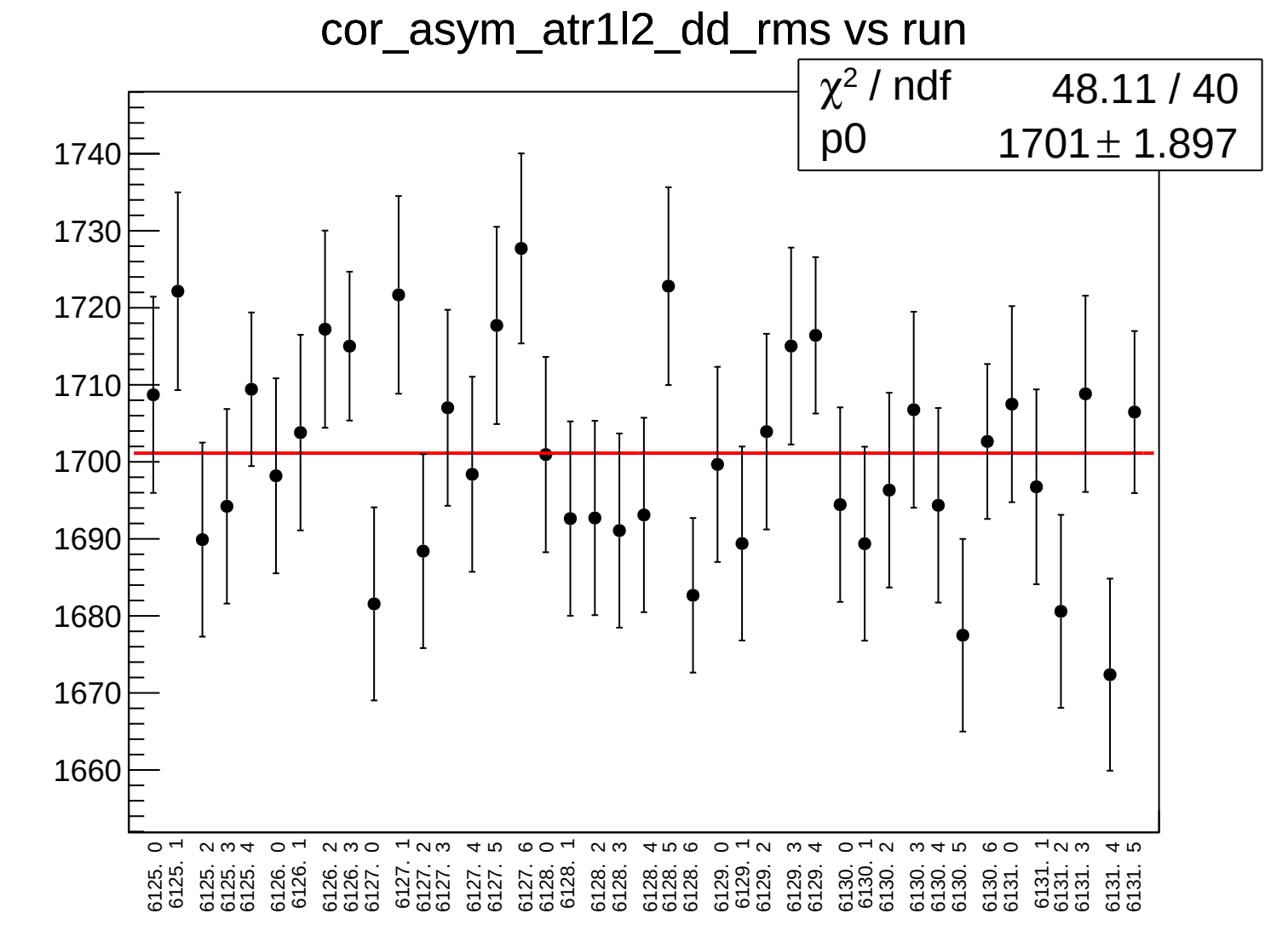

asym_atr1l2_dd_reg_correction_mean vs run
χ² / ndf 30.78 / 40
p0 −1205 ± 3653
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 129.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

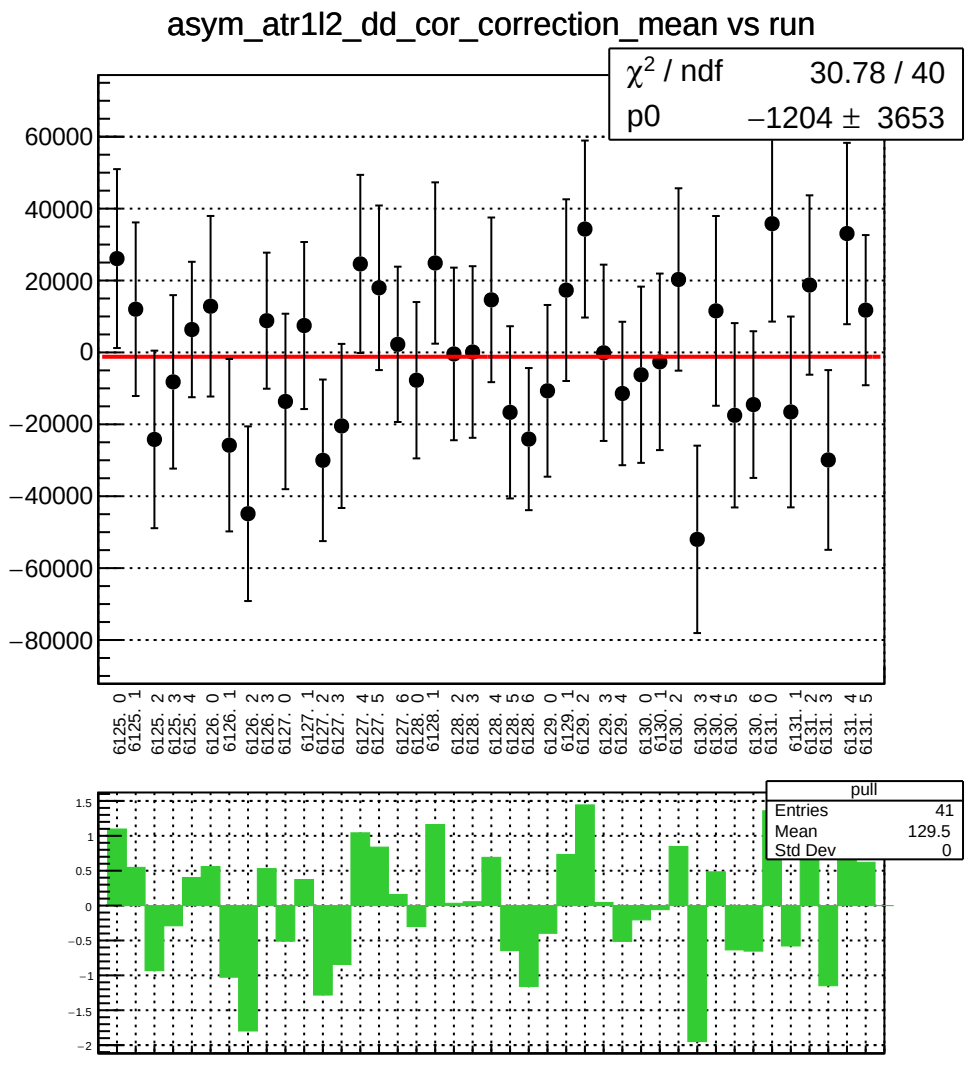

pull1D
Entries 41
Mean 0.006436
Std Dev 0.8665
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

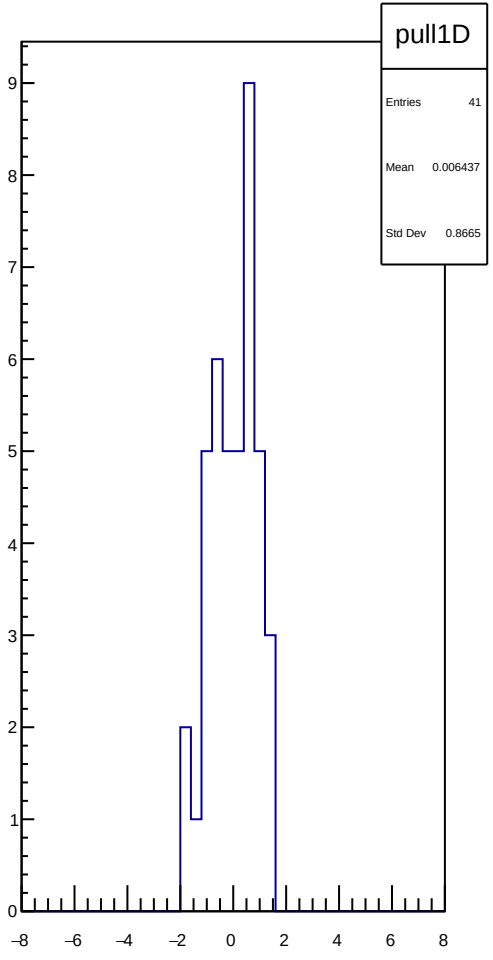

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 1806 / 40
p0 2314 ± 2.583
2600
2500
2400
2300
2200
2100
2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

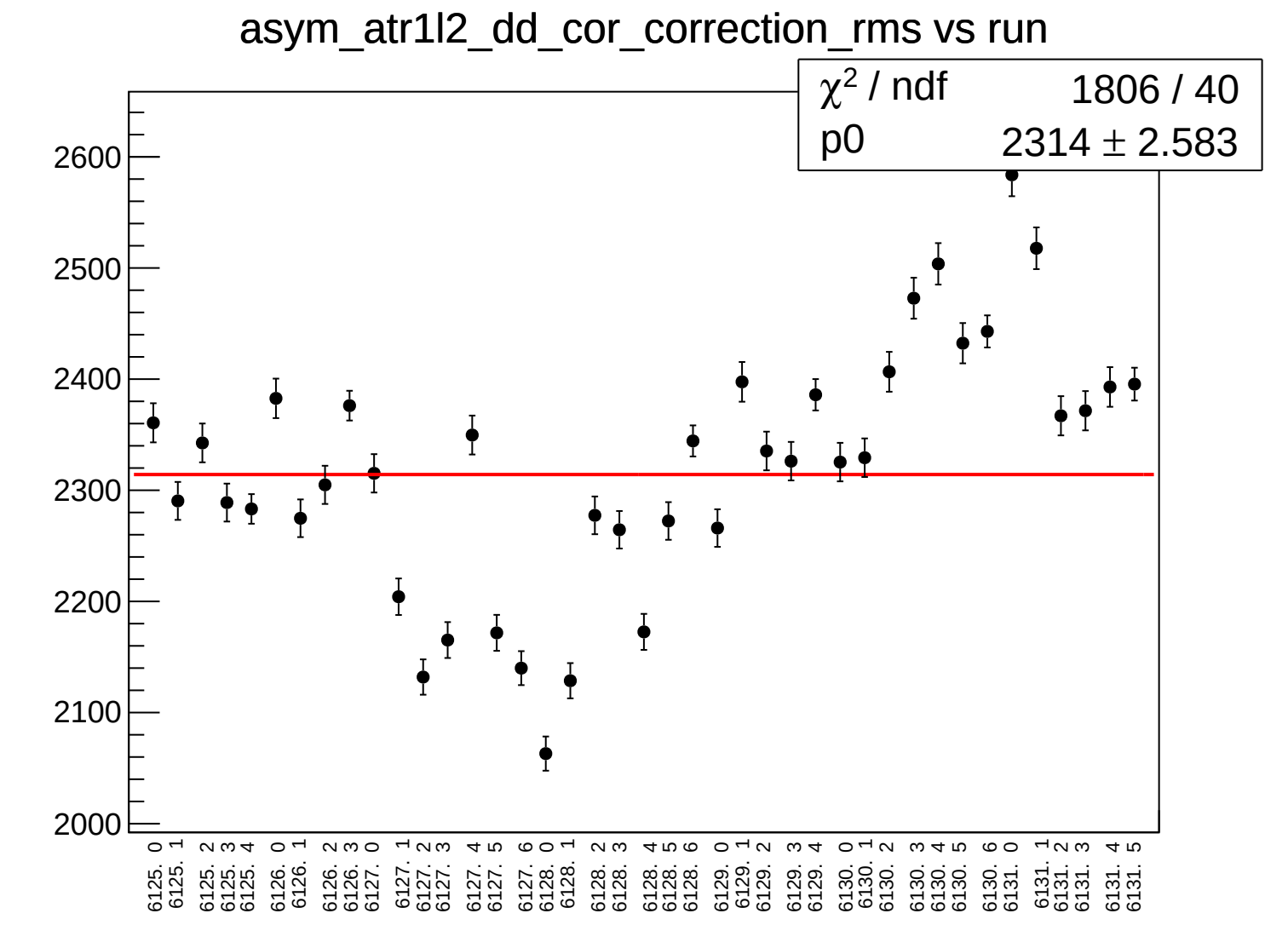

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 35.45 / 40
p0 −4525 ± 2683
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −30.43
Std Dev 45.1
2
1
0
−1
−2

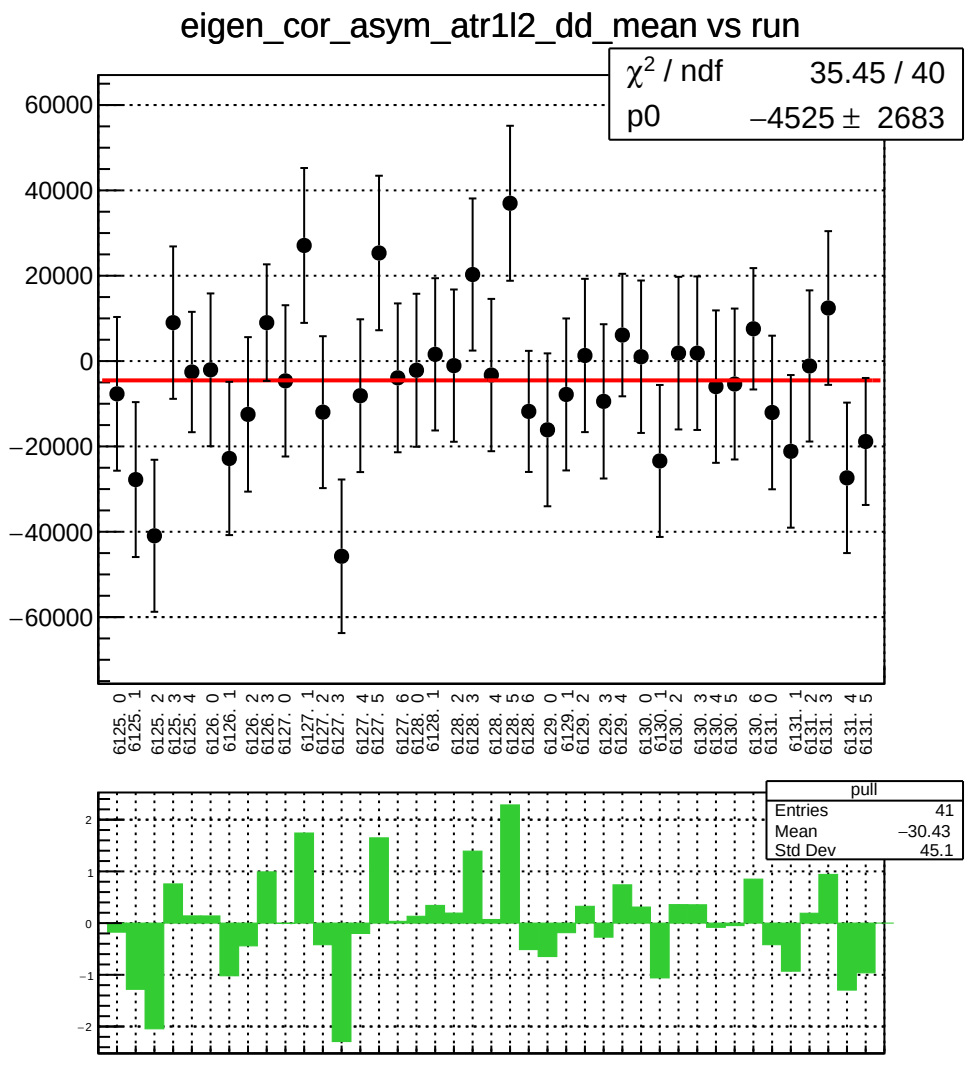

pull1D
Entries 41
Mean −0.008585
Std Dev 0.9298
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

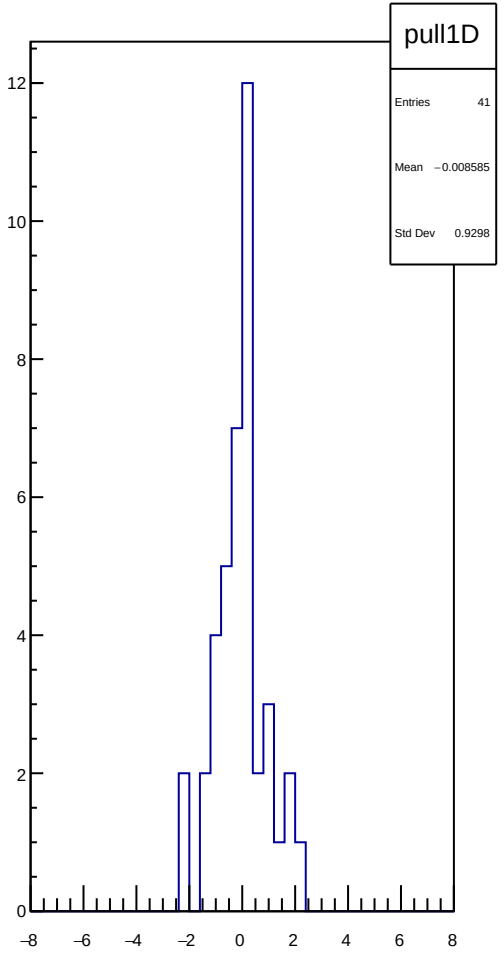

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 48.11 / 40
p0 1701 ± 1.897
1740
1730
1720
1710
1700
1690
1680
1670
1660
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

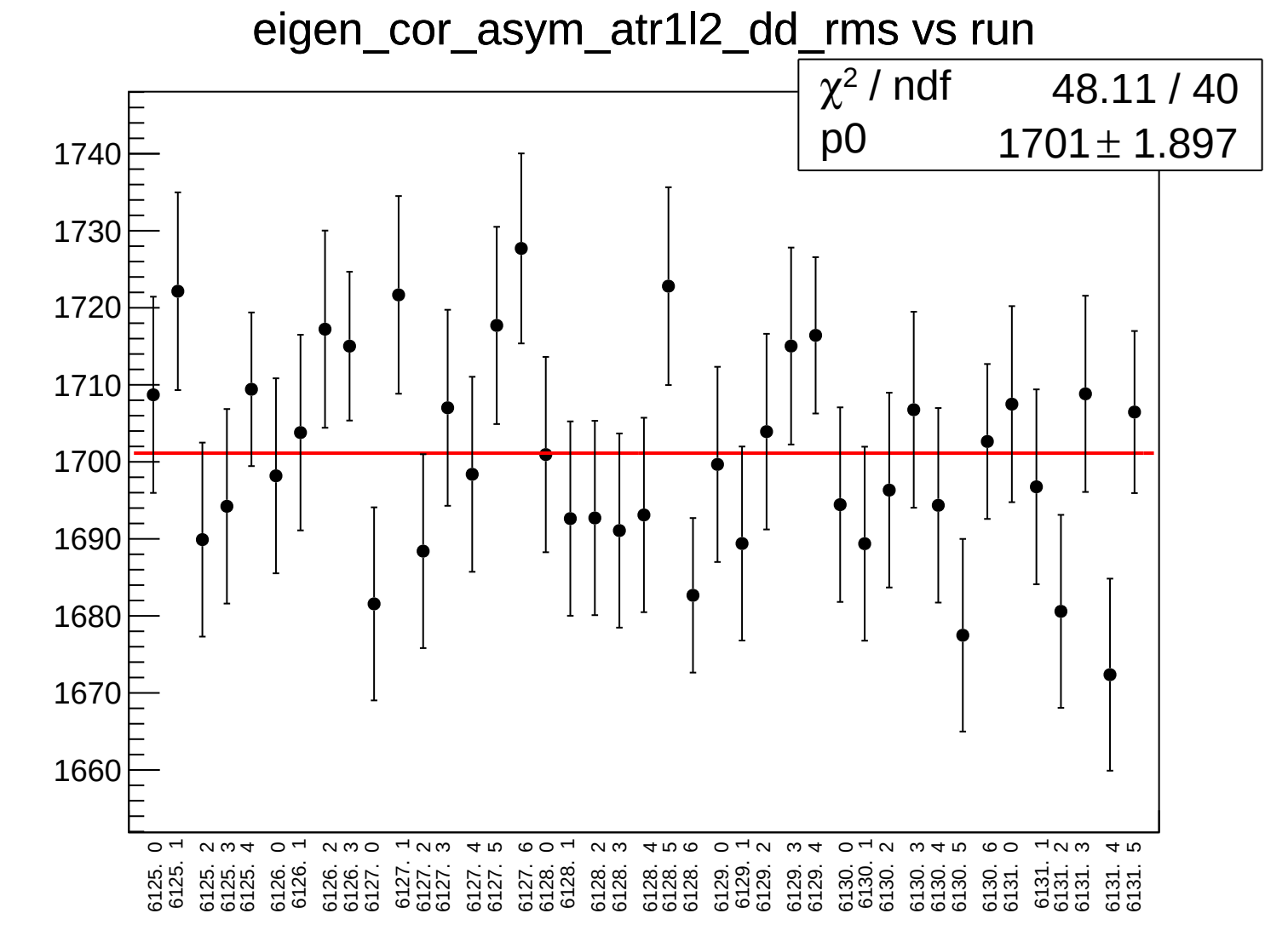

asym_atr1l2_dd_cor_correction_mean vs run
χ² / ndf 30.78 / 40
p0 −1204 ± 3653
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 129.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

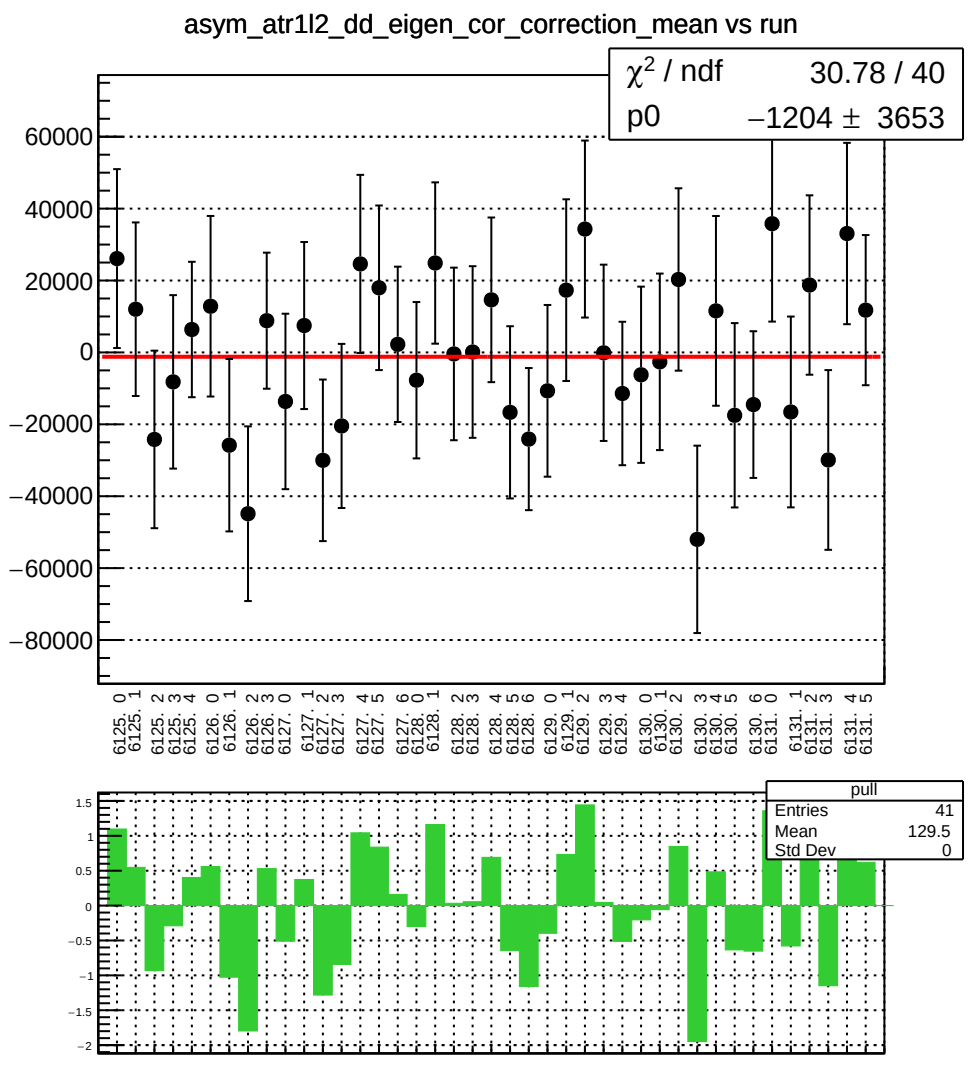

pull1D
Entries 41
Mean 0.006437
Std Dev 0.8665
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

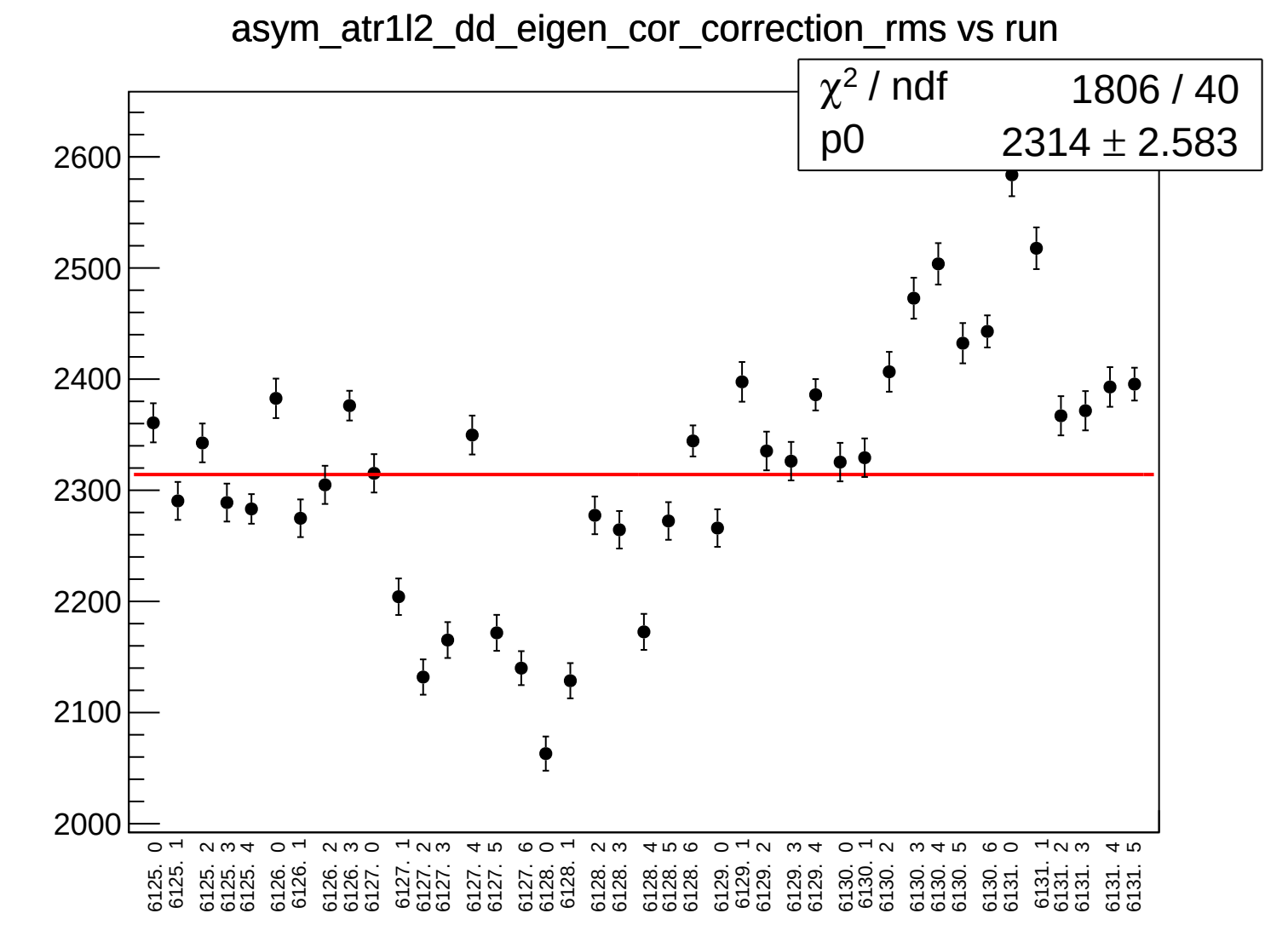

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 1806 / 40
p0 2314 ± 2.583
2600
2500
2400
2300
2200
2100
2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

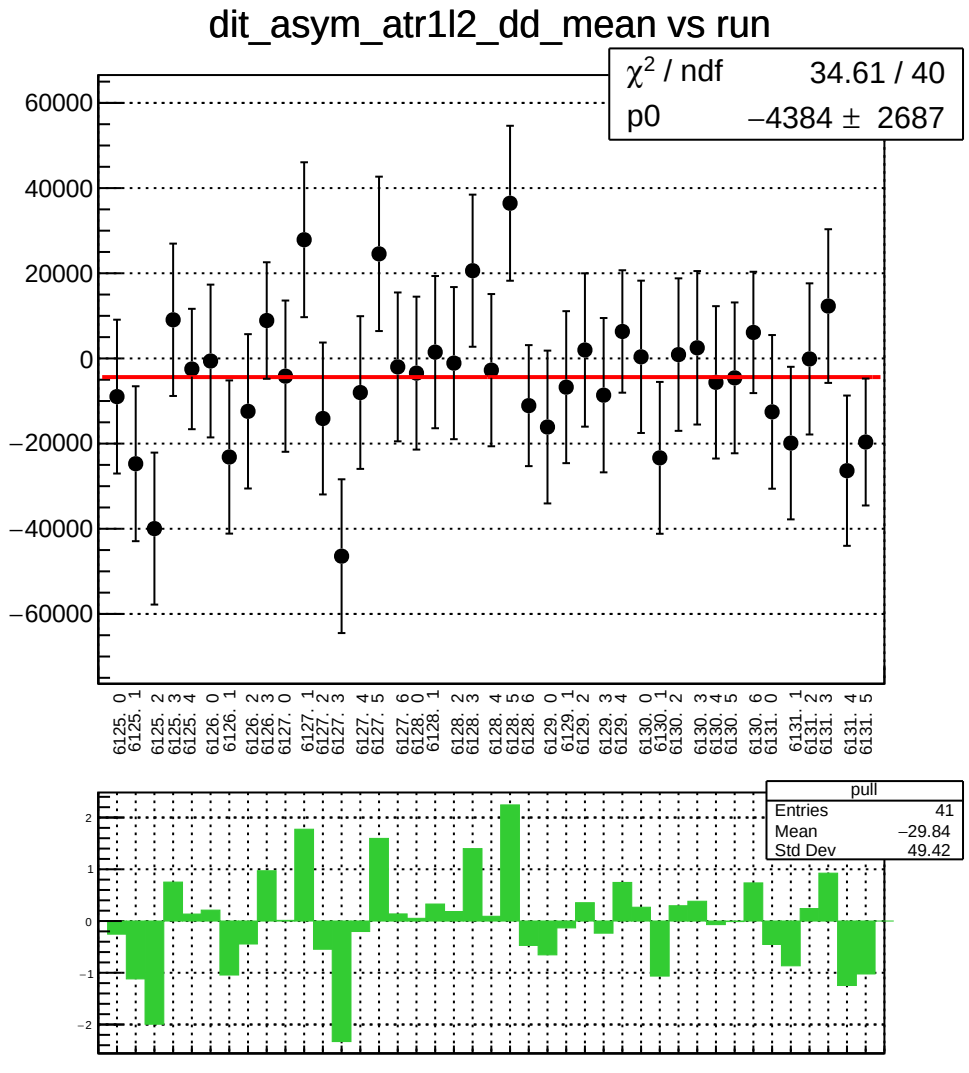

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 35.45 / 40
p0 −4525 ± 2683
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −30.43
Std Dev 45.1
2
1
0
−1
−2

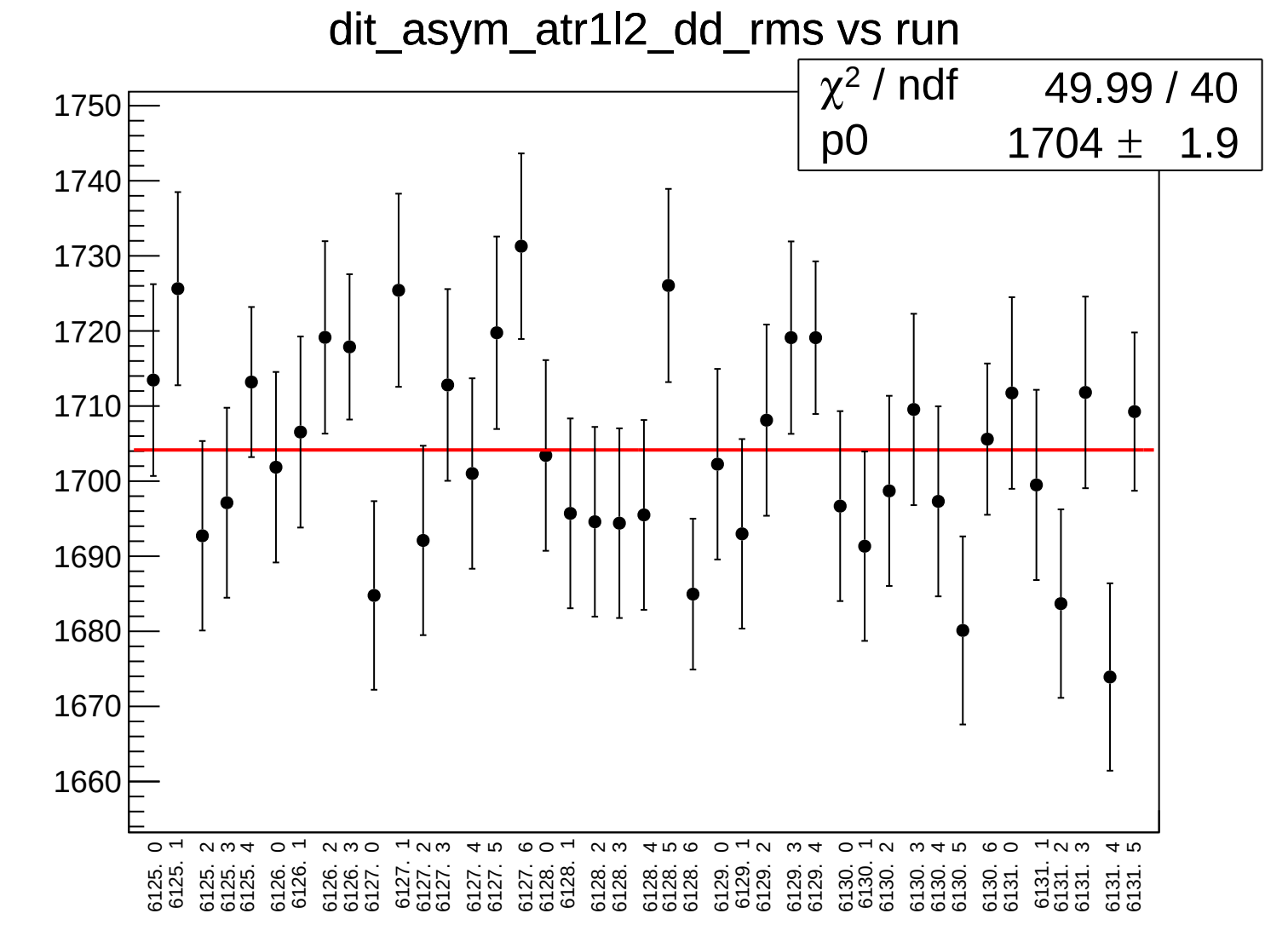

pull1D
Entries 41
Mean −0.008585
Std Dev 0.9298
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

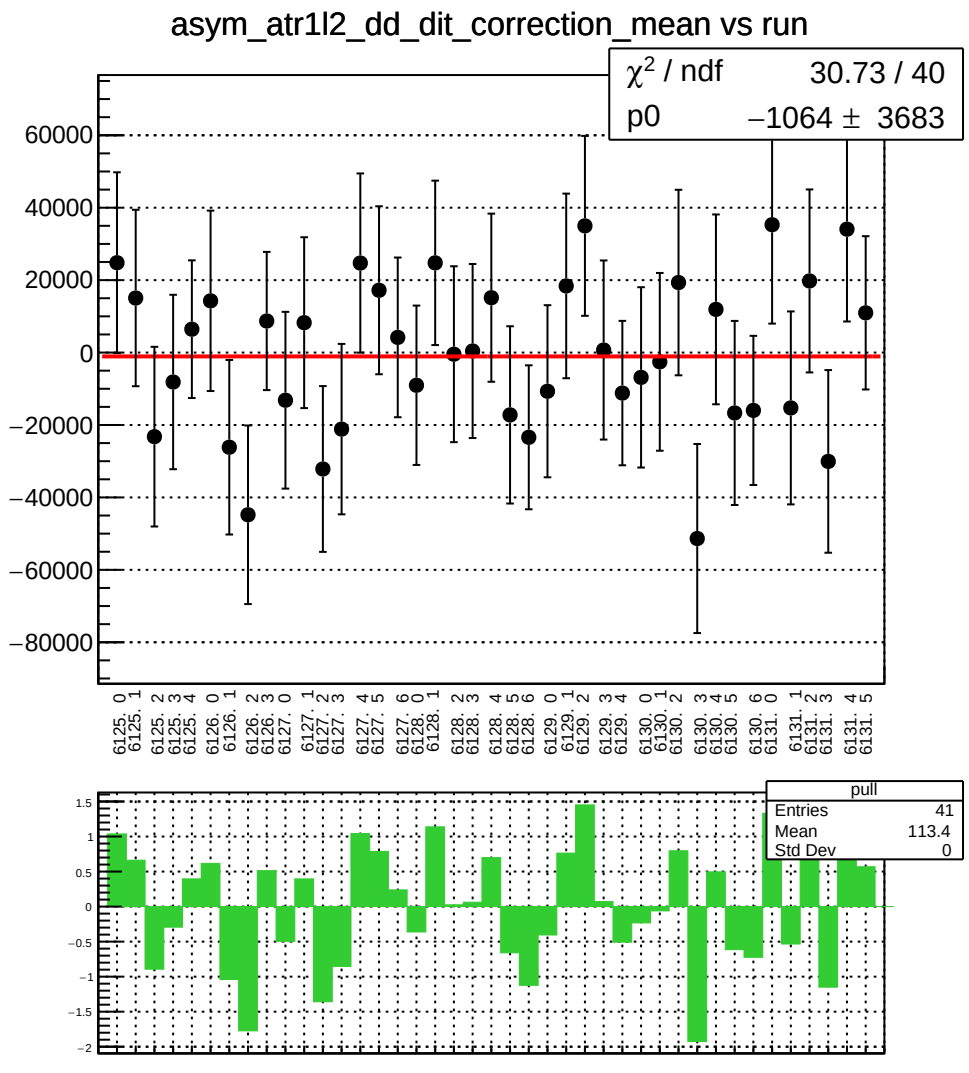

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 48.11 / 40
p0 1701 ± 1.897
1740
1730
1720
1710
1700
1690
1680
1670
1660
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

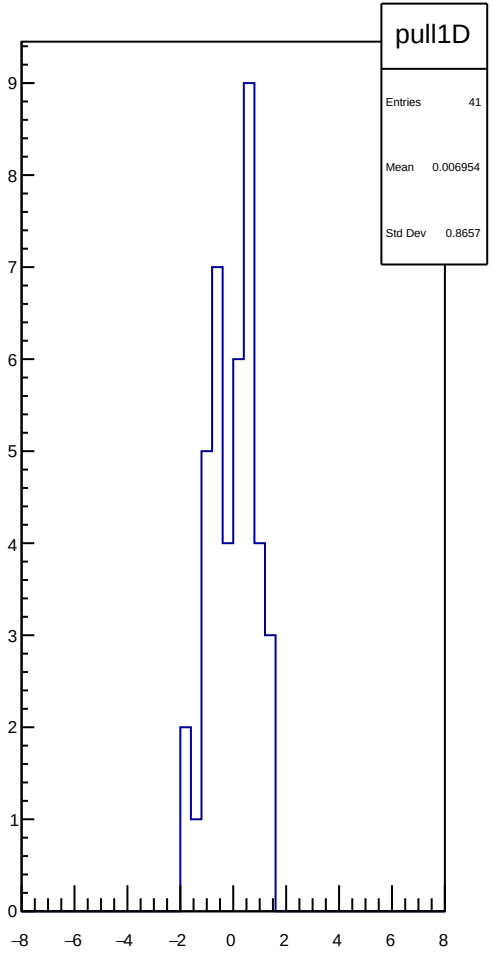

asym_atr1l2_dd_eigen_cor_correction_mean vs run
χ² / ndf 30.78 / 40
p0 −1204 ± 3653
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 129.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.006437
Std Dev 0.8665
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

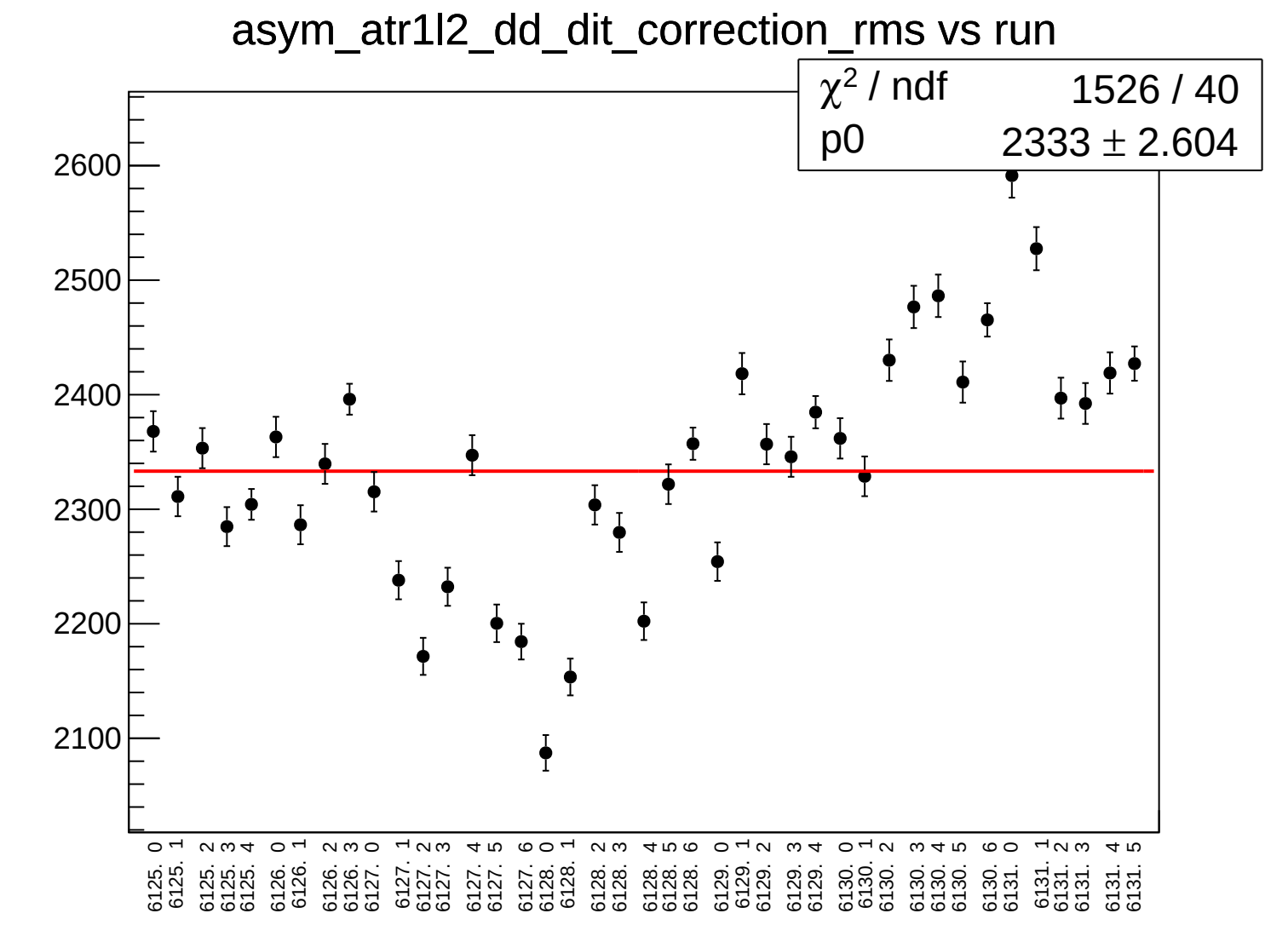

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1806 / 40
p0 2314 ± 2.583
2600
2500
2400
2300
2200
2100
2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

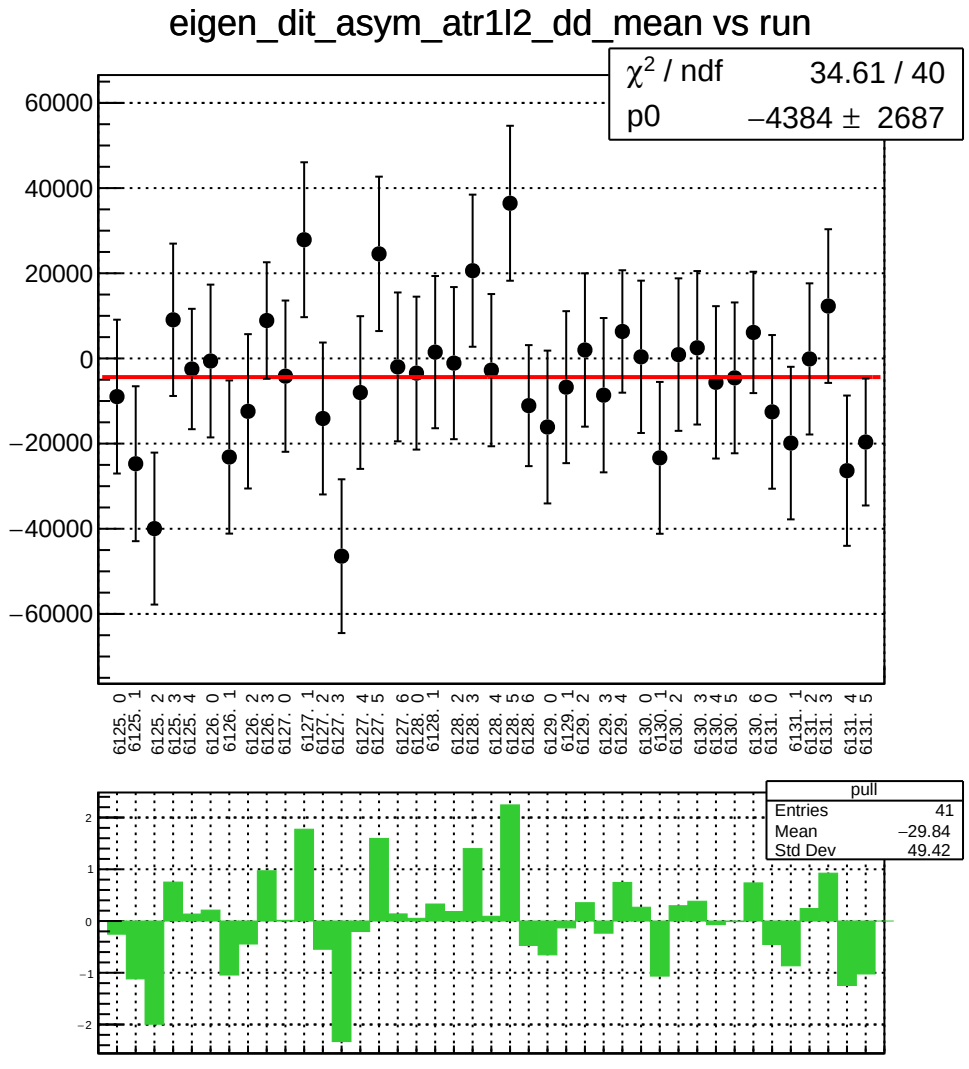

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 34.61 / 40
p0 −4384 ± 2687
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −29.84
Std Dev 49.42
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.007811
Std Dev 0.9188
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

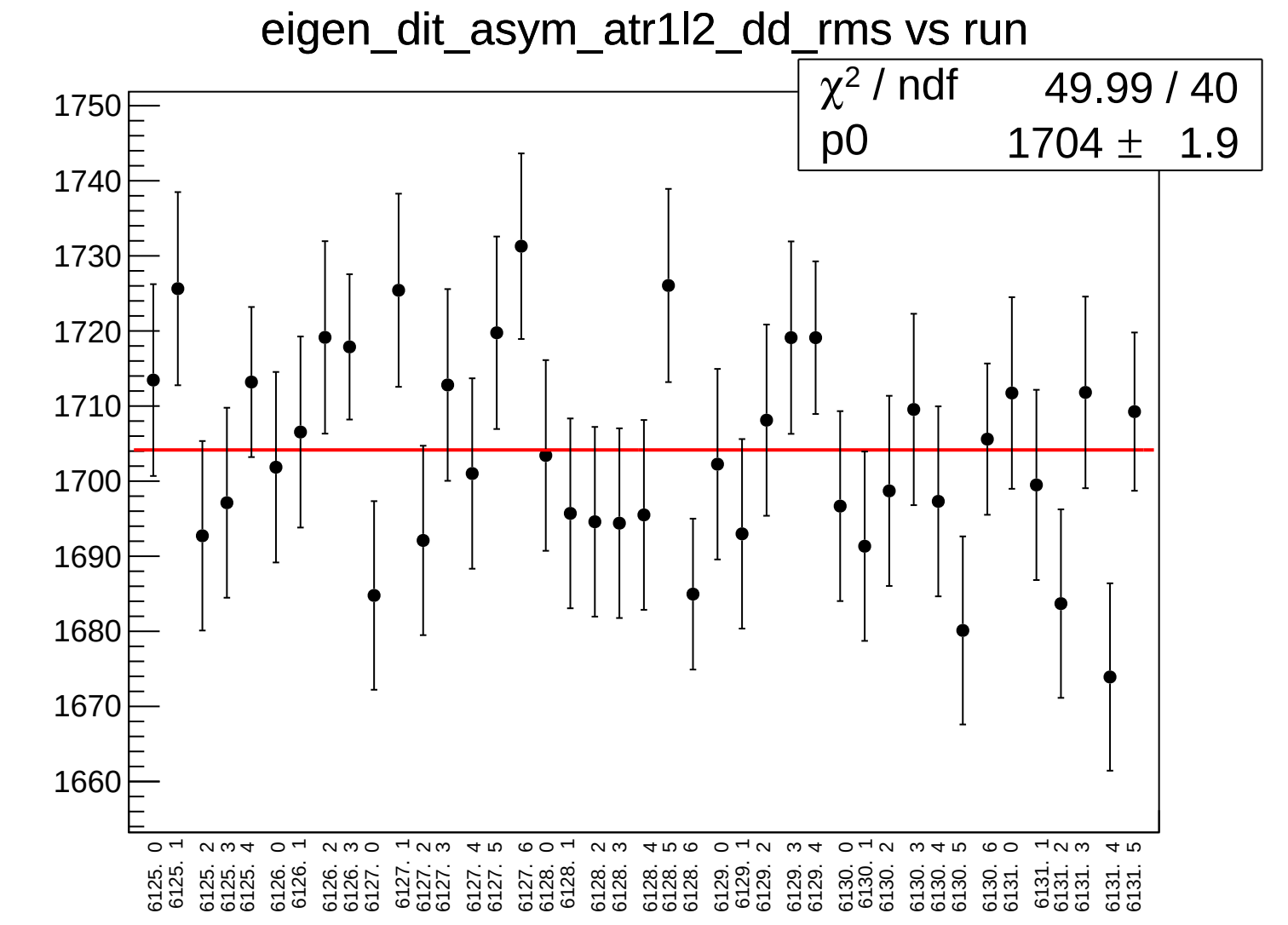

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 49.99 / 40
p0 1704 ± 1.9
1750
1740
1730
1720
1710
1700
1690
1680
1670
1660
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

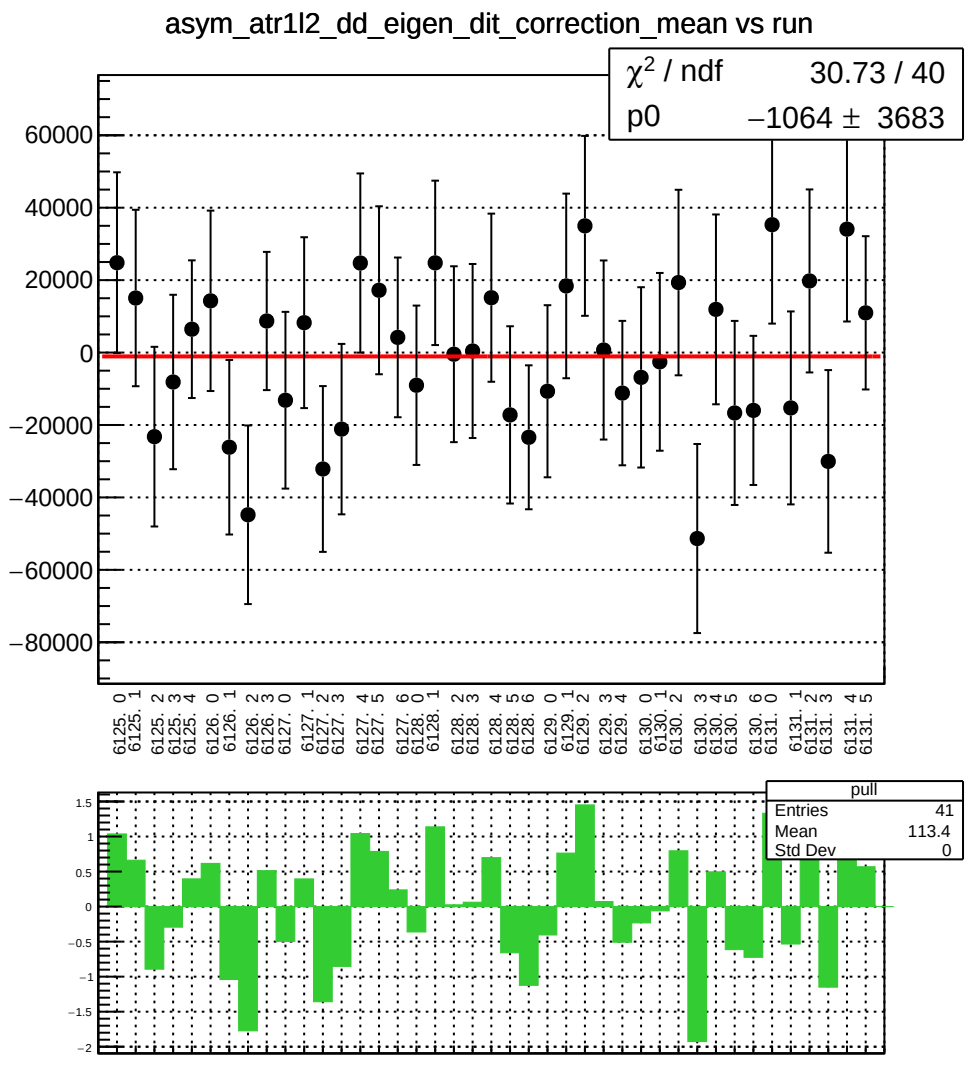

asym_atr1l2_dd_dit_correction_mean vs run
χ² / ndf 30.73 / 40
p0 −1064 ± 3683
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 113.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

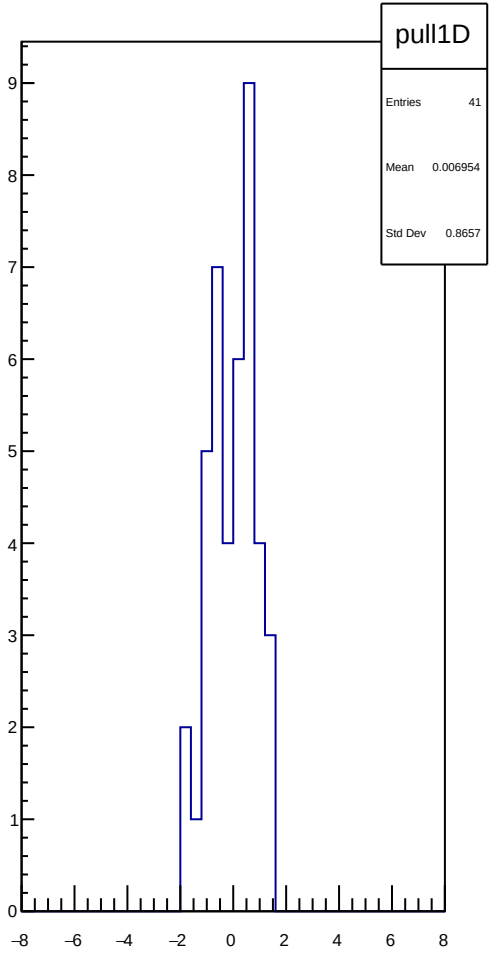

pull1D
Entries 41
Mean 0.006954
Std Dev 0.8657
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

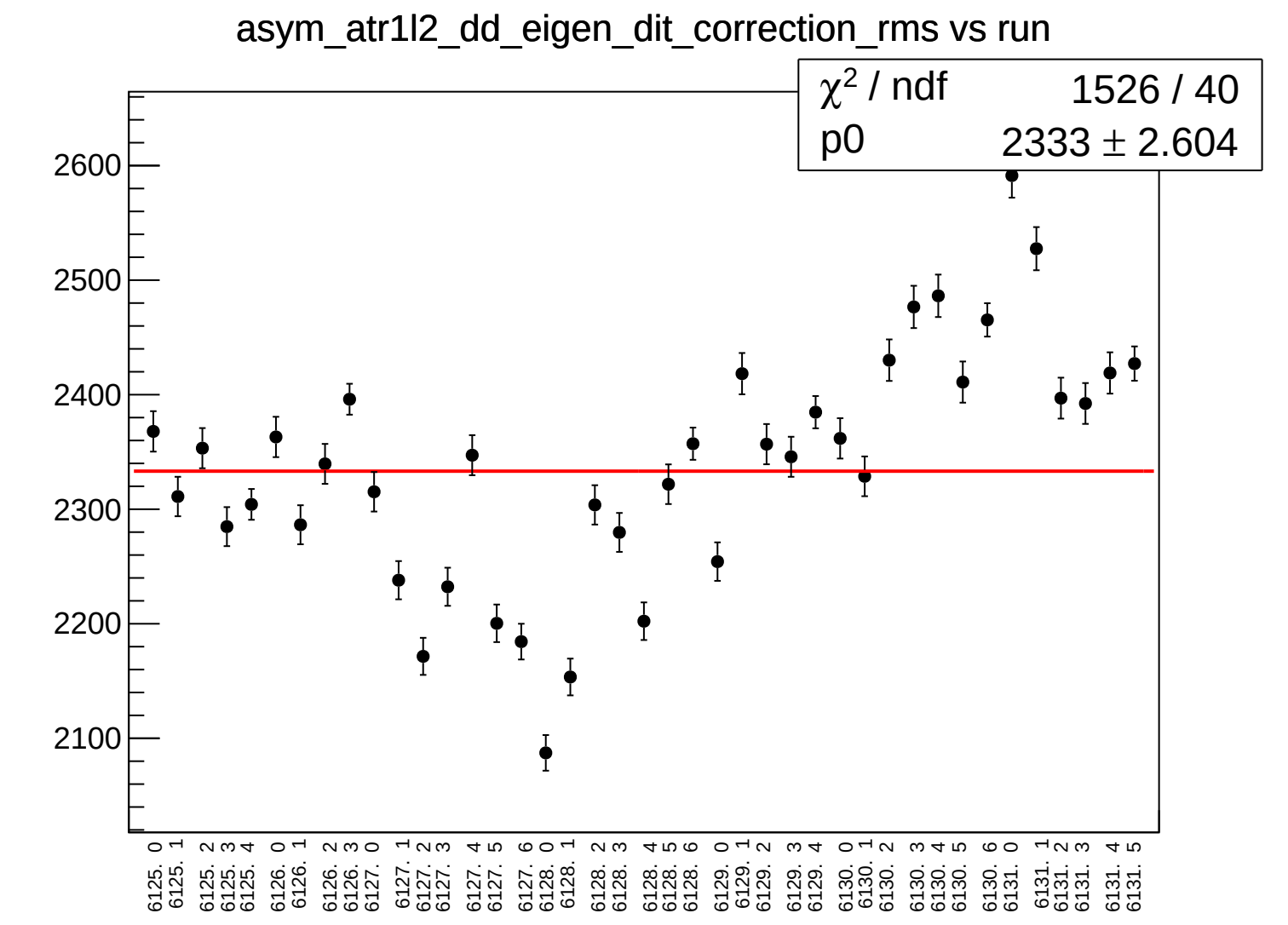

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 1526 / 40
p0 2333 ± 2.604
2600
2500
2400
2300
2200
2100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 34.61 / 40
p0 −4384 ± 2687
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −29.84
Std Dev 49.42
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.007811
Std Dev 0.9188
12
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 49.99 / 40
p0 1704 ± 1.9
1750
1740
1730
1720
1710
1700
1690
1680
1670
1660
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atr1l2_dd_eigen_dit_correction_mean vs run
χ² / ndf 30.73 / 40
p0 −1064 ± 3683
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 113.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.006954
Std Dev 0.8657
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 1526 / 40
p0 2333 ± 2.604
2600
2500
2400
2300
2200
2100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
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6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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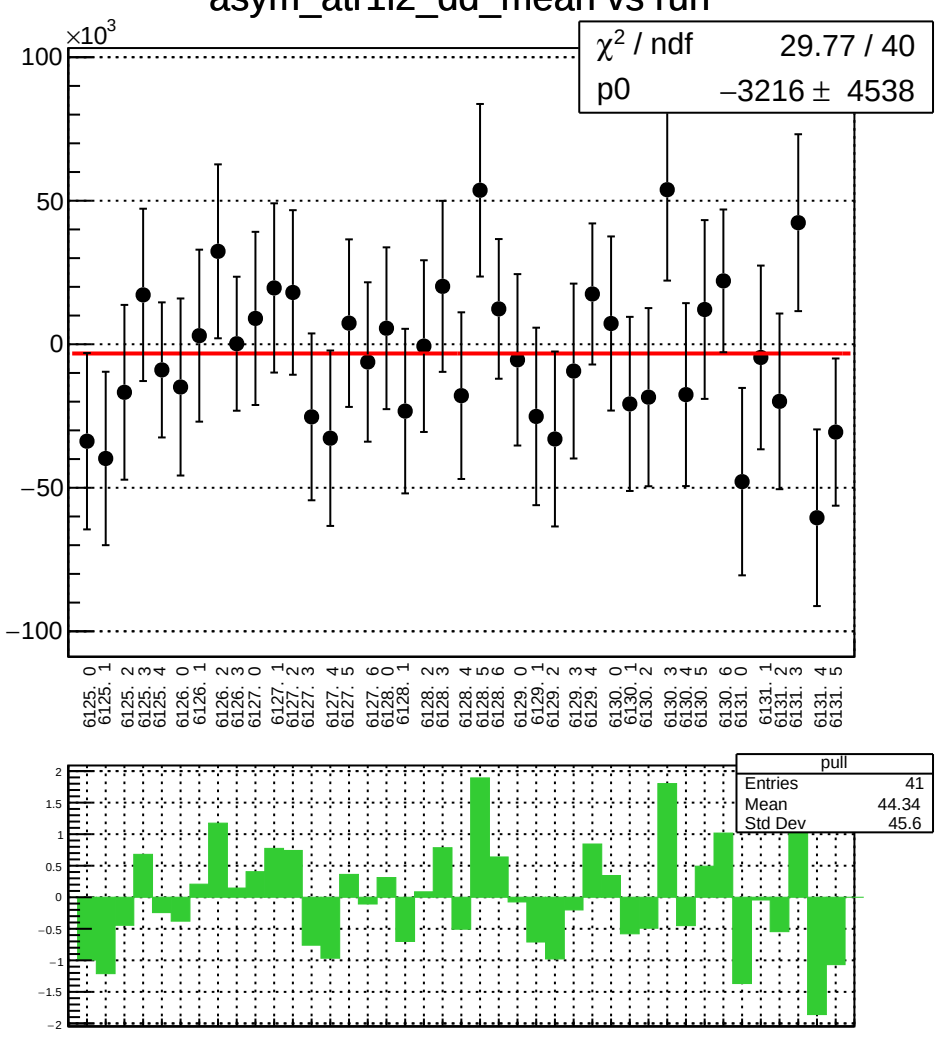
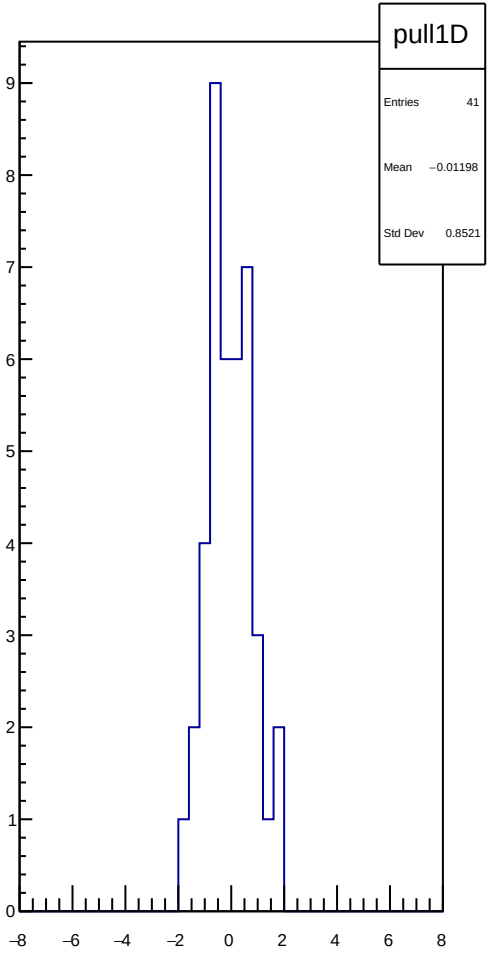
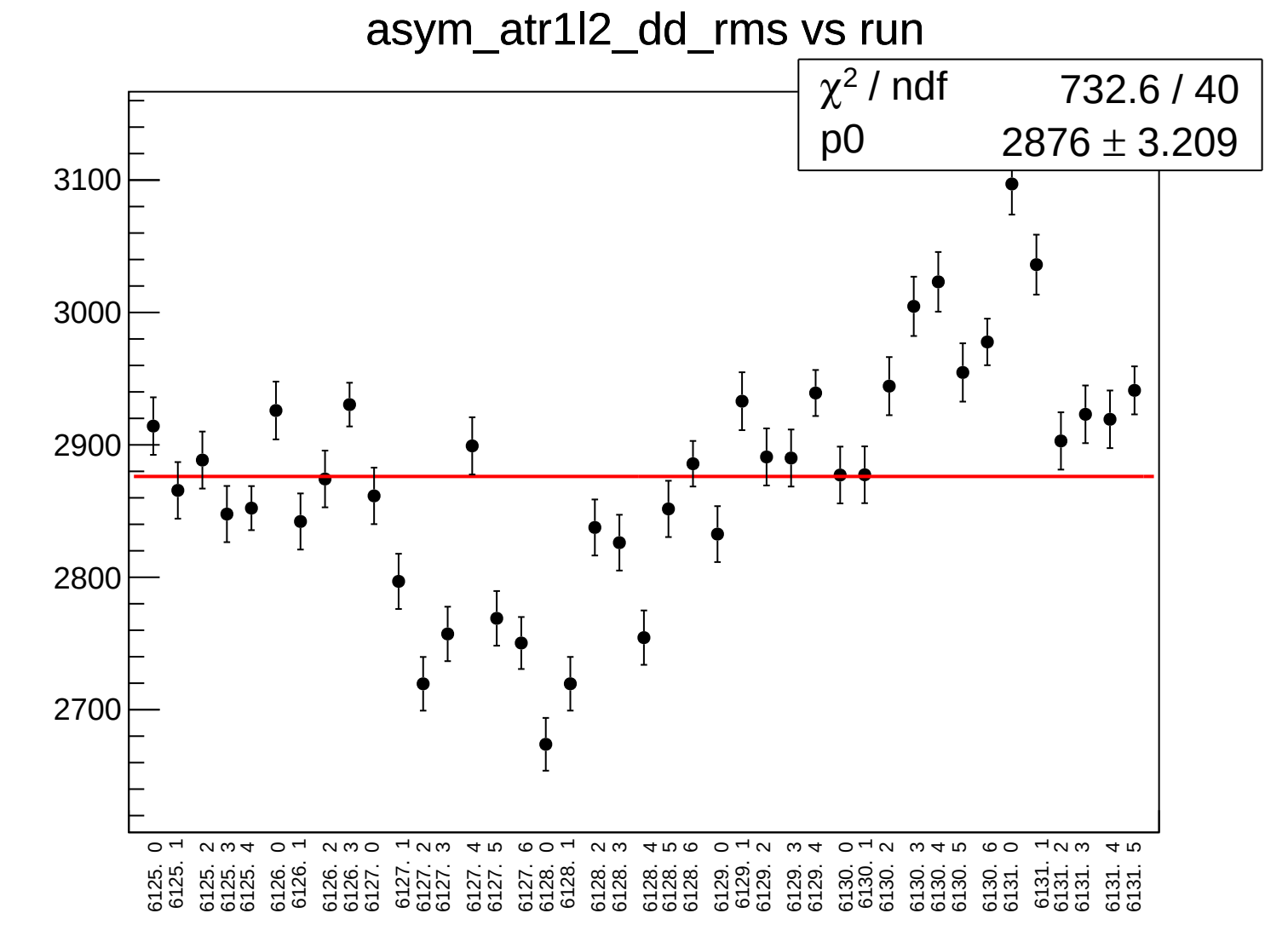
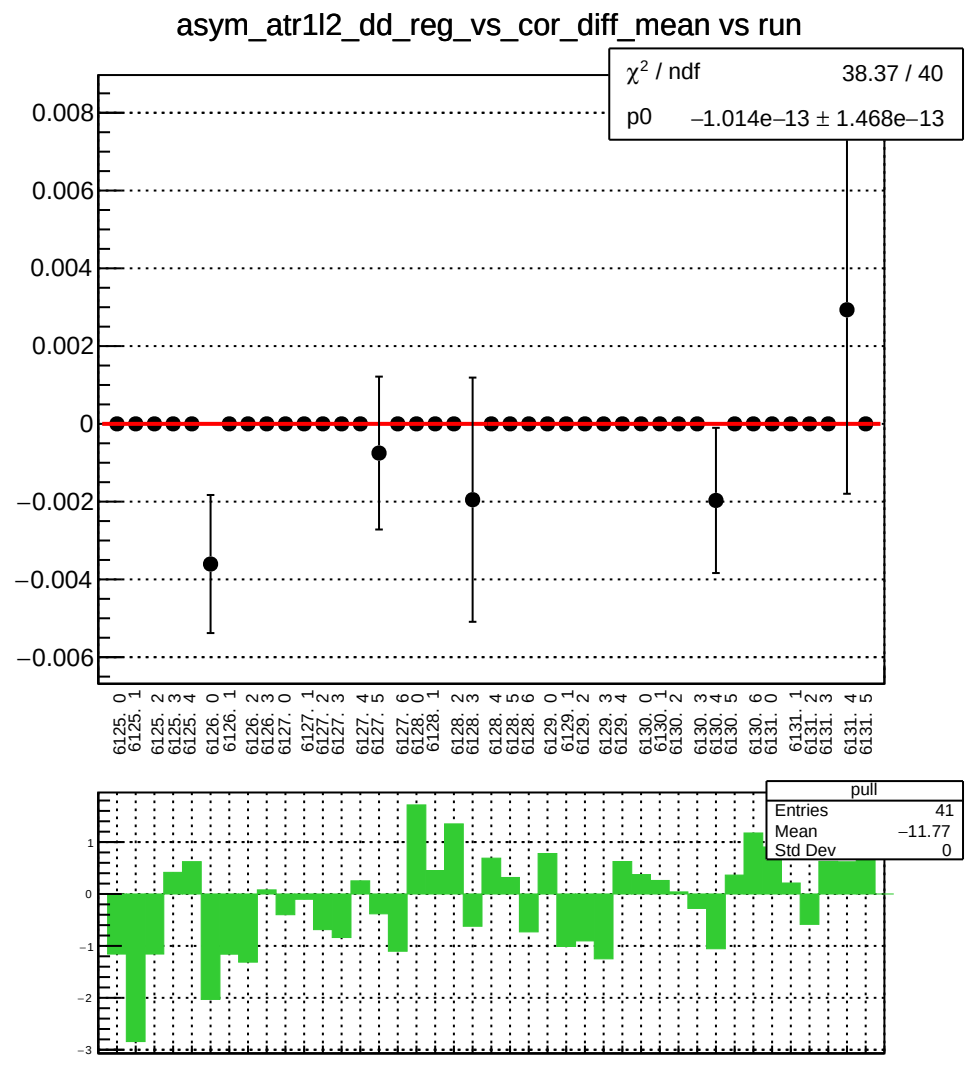
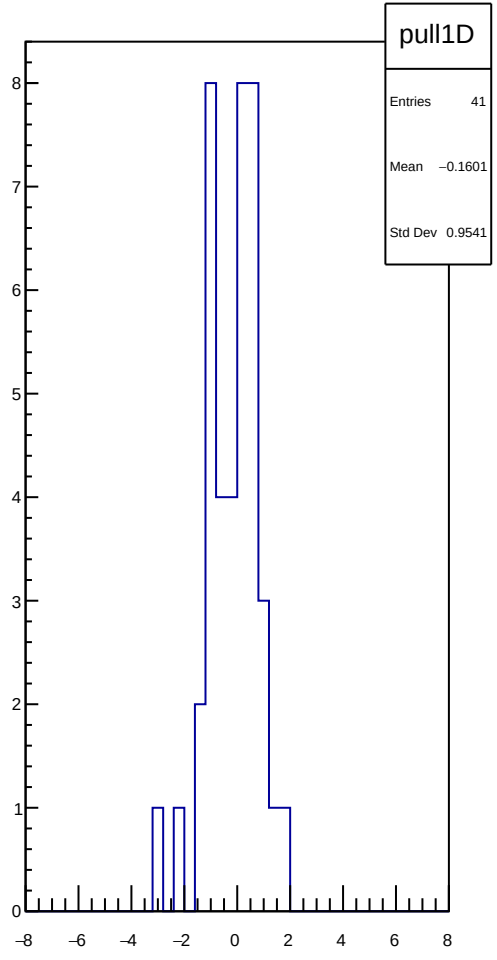
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

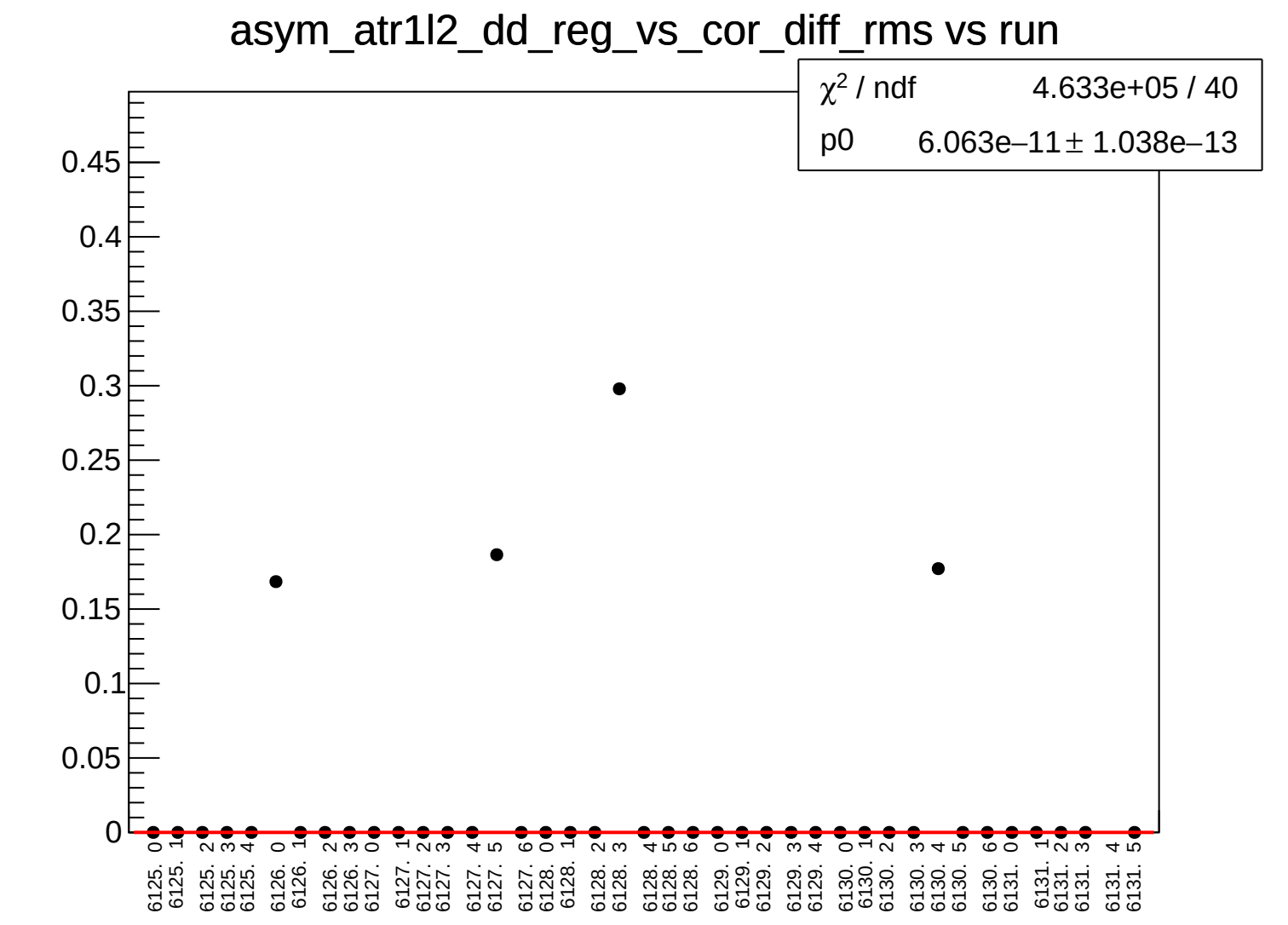

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 29.77 / 40
p0 −3216 ± 4538
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 44.34
Std Dev 45.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

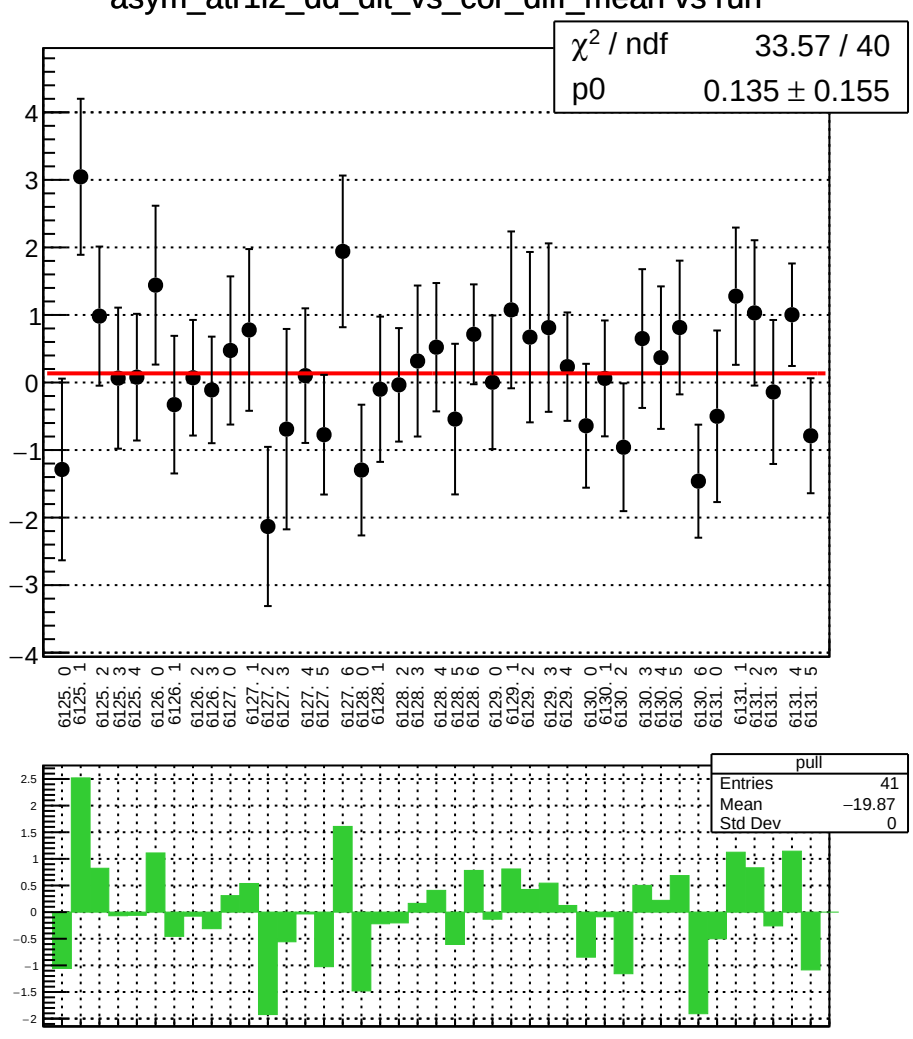

pull1D
Entries 41
Mean −0.01198
Std Dev 0.8521
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

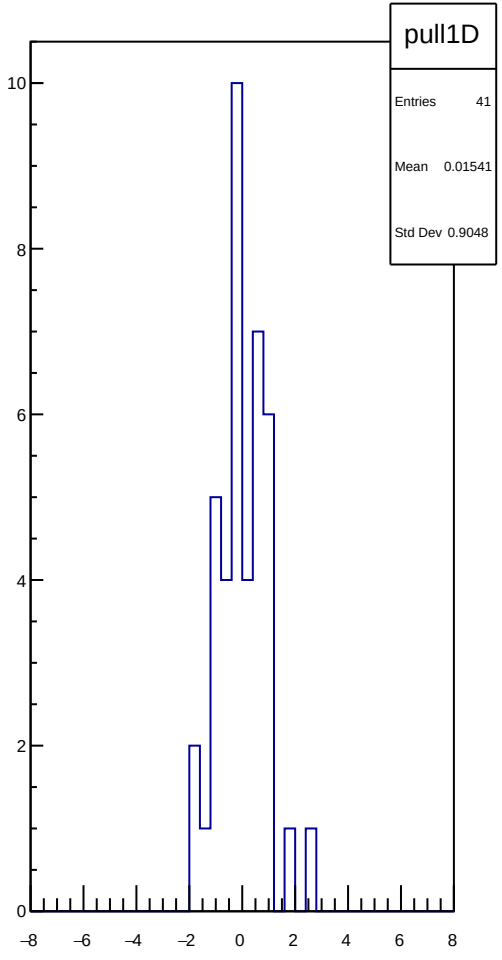

asym_atr1l2_dd_rms vs run
χ² / ndf 732.6 / 40
p0 2876 ± 3.209
3100
3000
2900
2800
2700
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

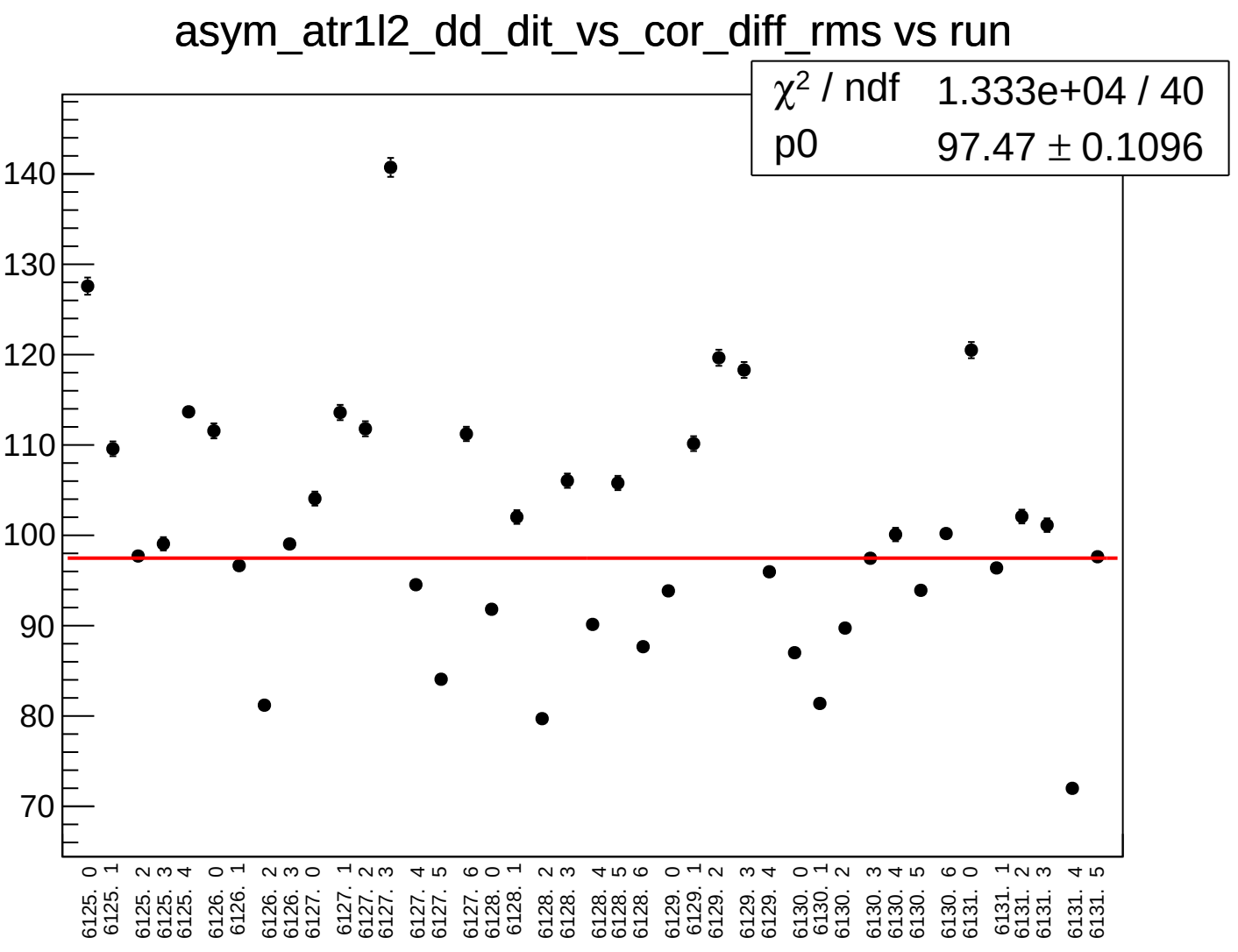

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 38.37 / 40
p0 −1.014e−13 ± 1.468e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −11.77
Std Dev 0
1
0
−1
−2
−3

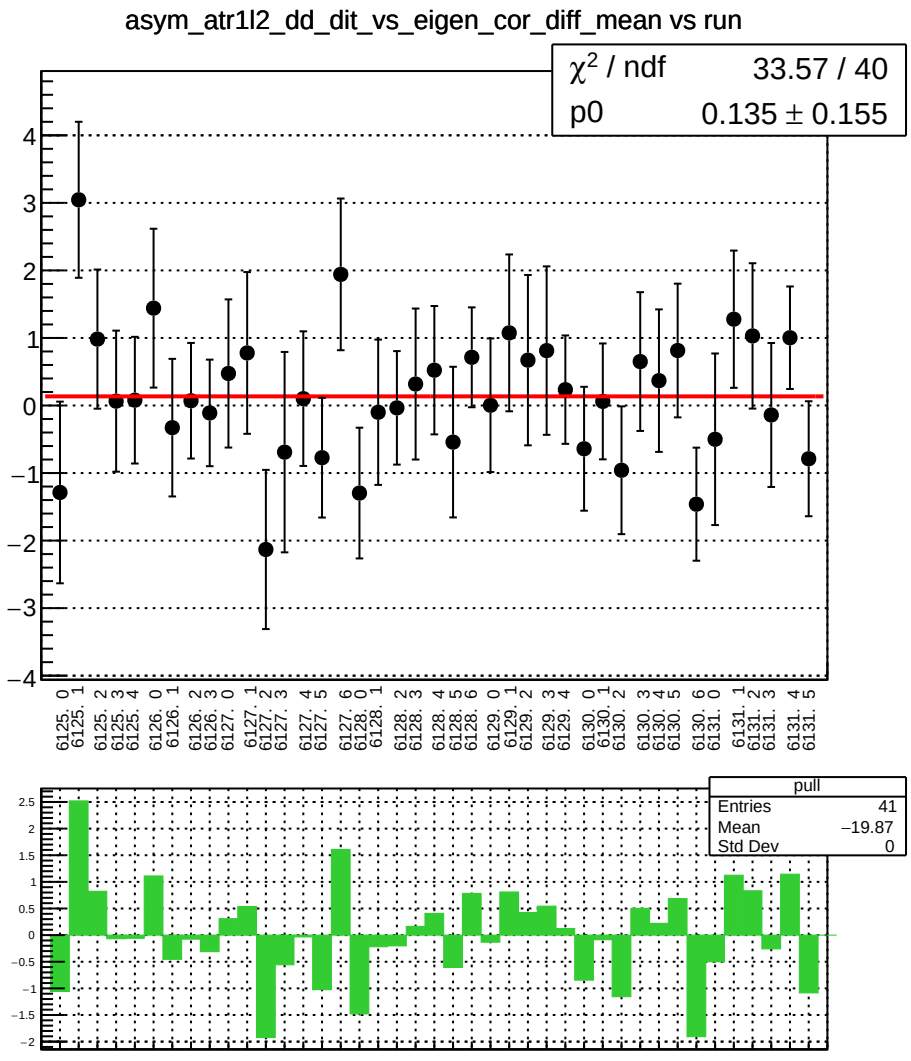

pull1D
Entries 41
Mean −0.1601
Std Dev 0.9541
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

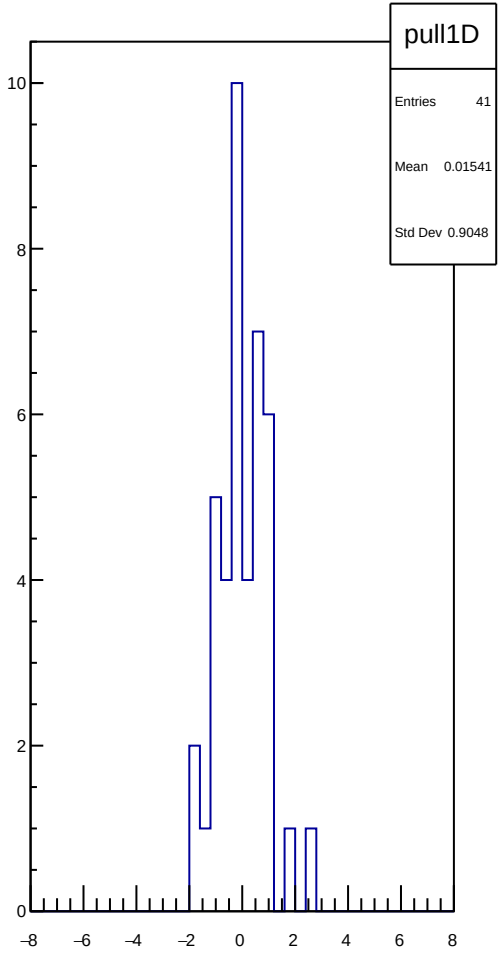

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.633e+05 / 40
p0 6.063e−11 ± 1.038e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

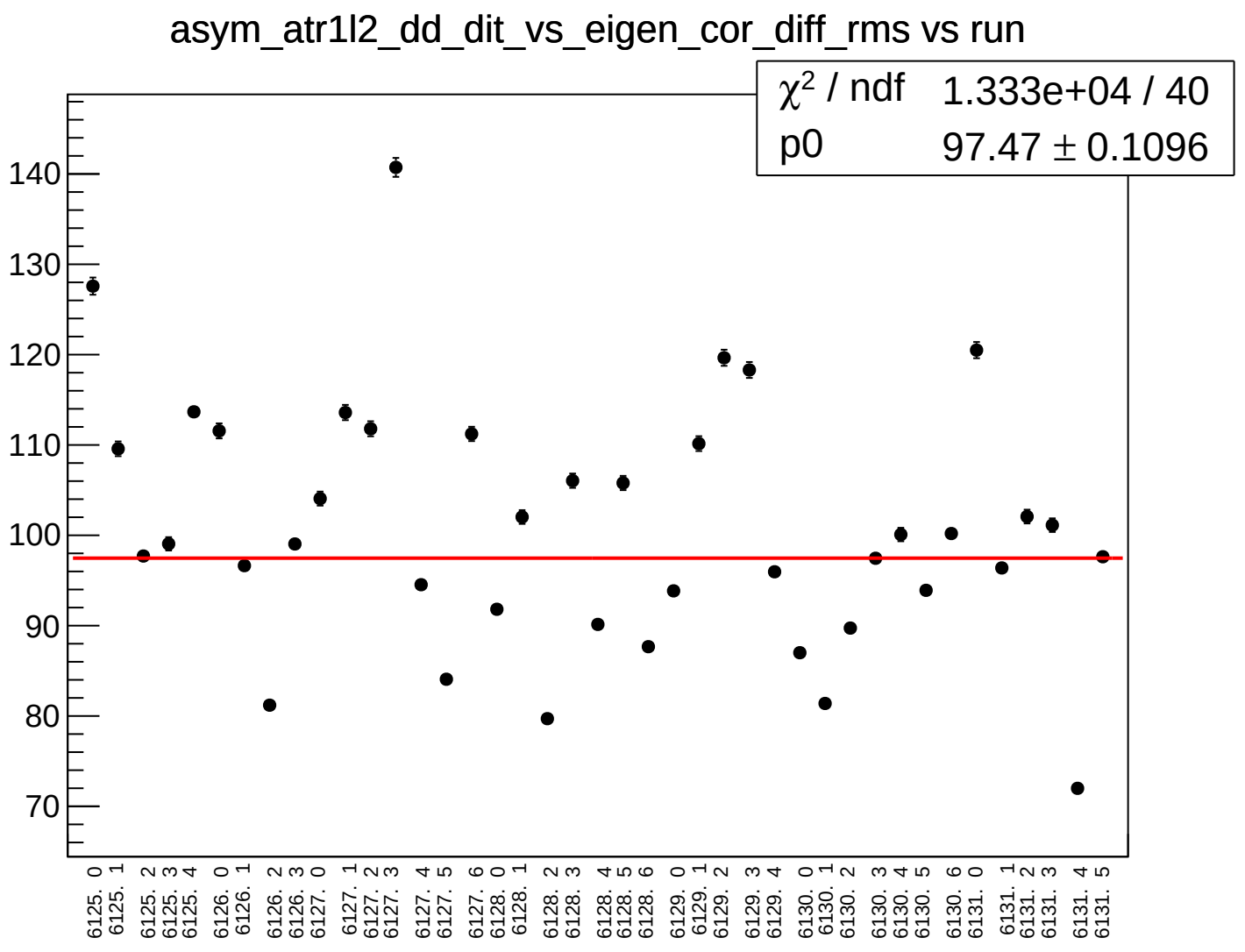

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 33.57 / 40
p0 0.135 ± 0.155
pull
Entries 41
Mean −19.87
Std Dev 0

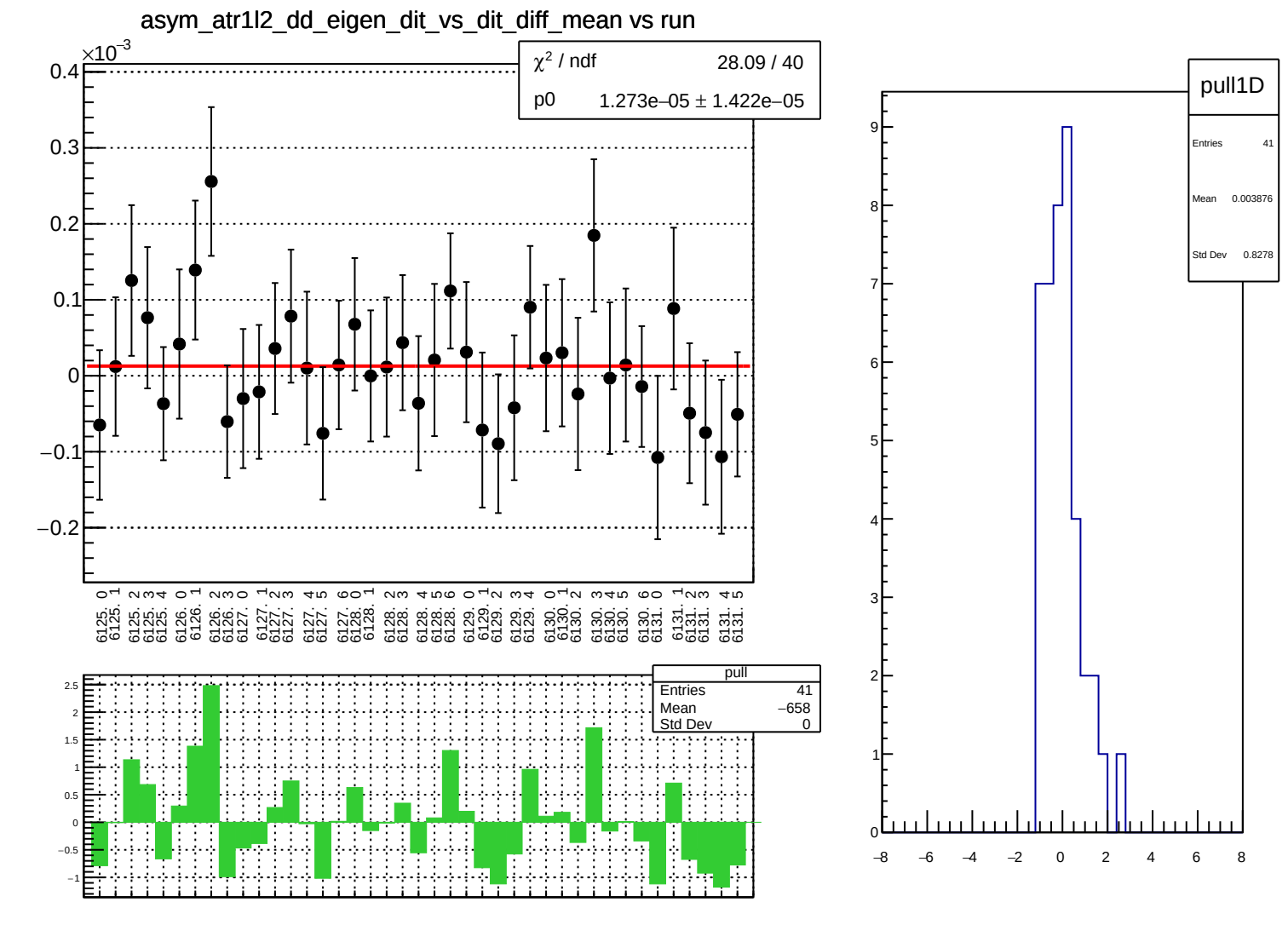

pull1D
Entries 41
Mean 0.01541
Std Dev 0.9048

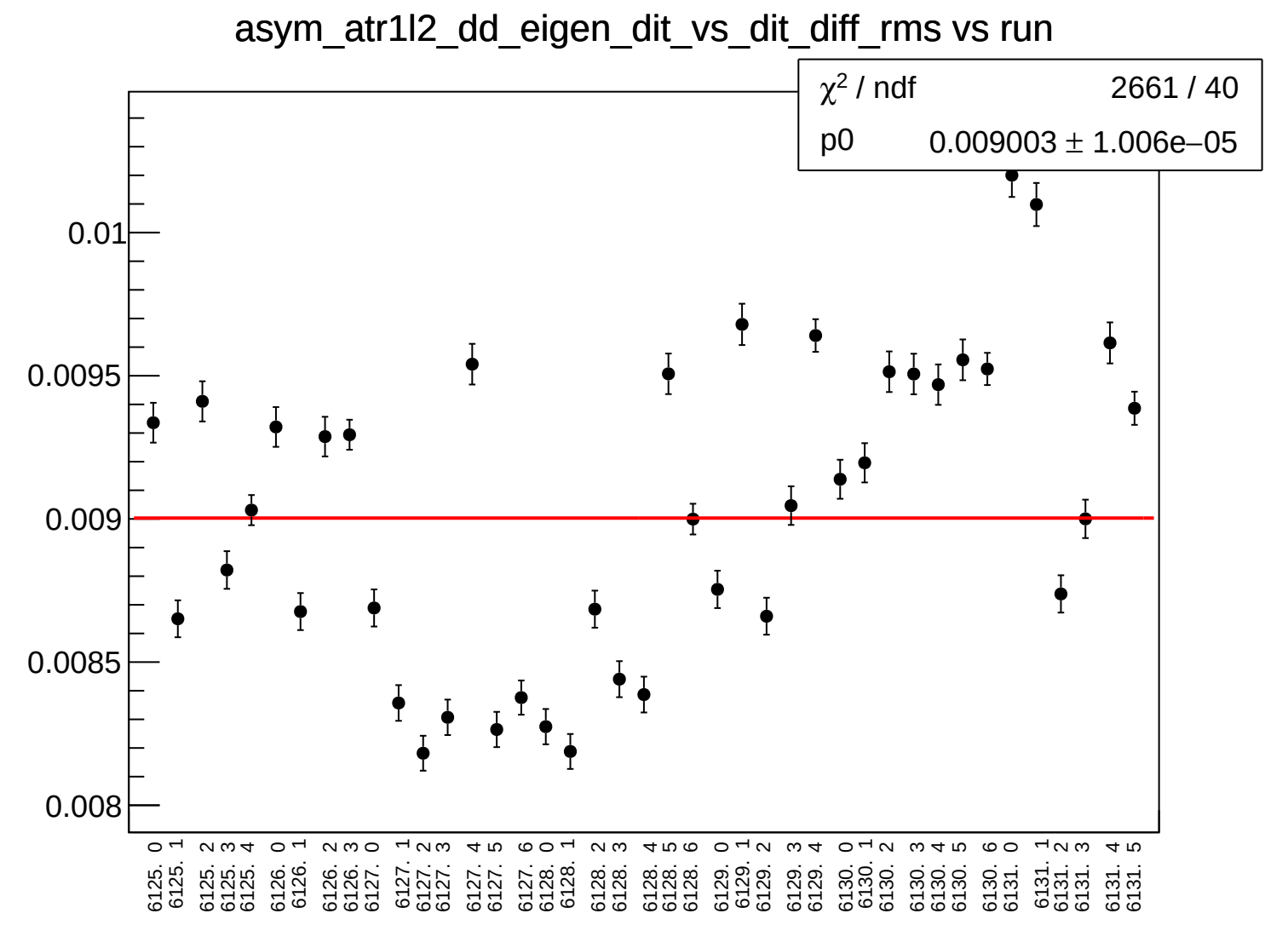

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.333e+04 / 40
p0 97.47 ± 0.1096
140
130
120
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

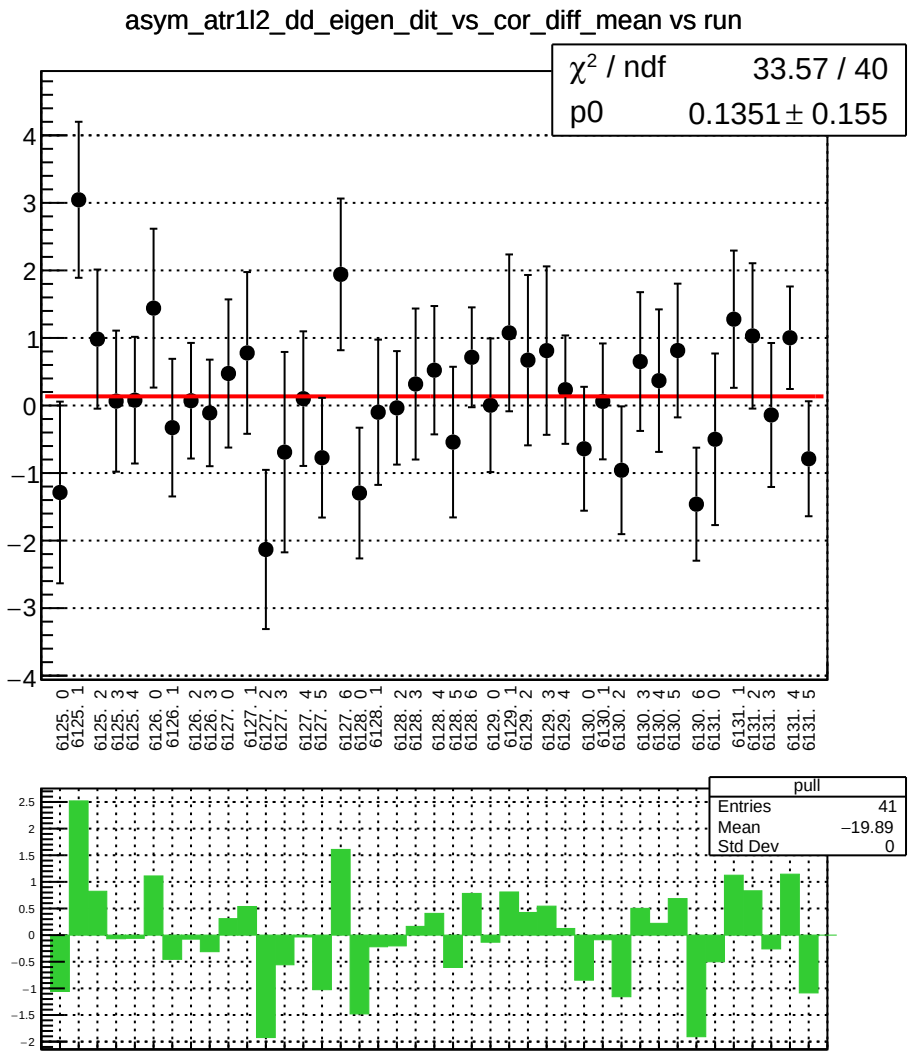

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.57 / 40
p0 0.135 ± 0.155
pull
Entries 41
Mean −19.87
Std Dev 0

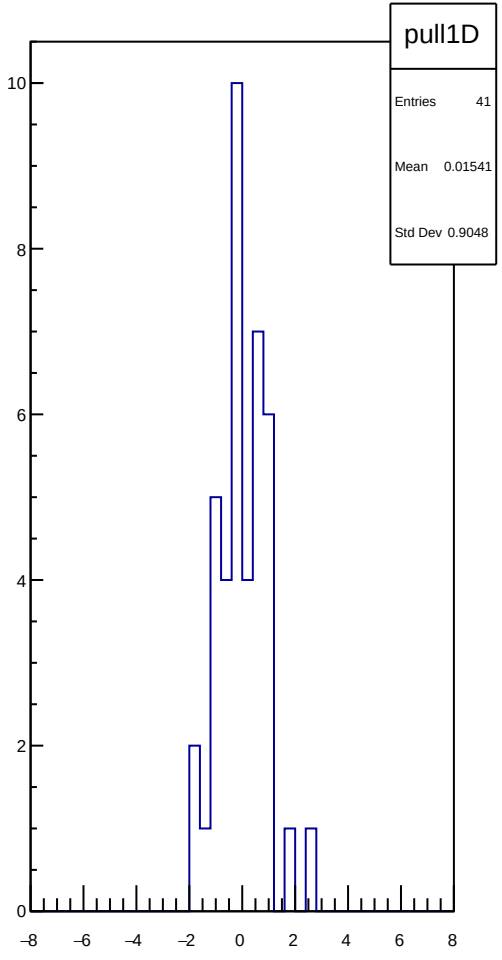

pull1D
Entries 41
Mean 0.01541
Std Dev 0.9048

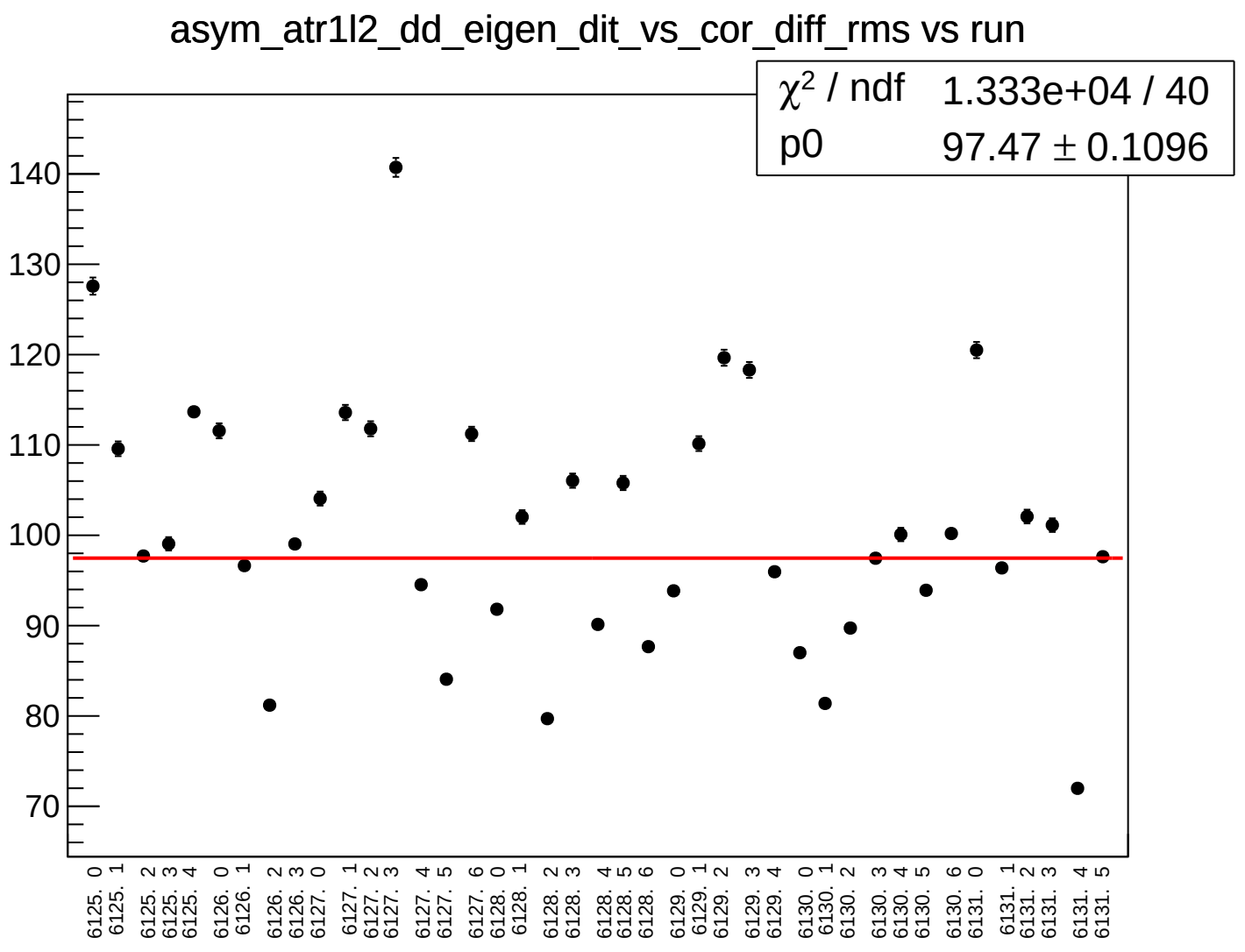

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.333e+04 / 40
p0 97.47 ± 0.1096
140
130
120
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

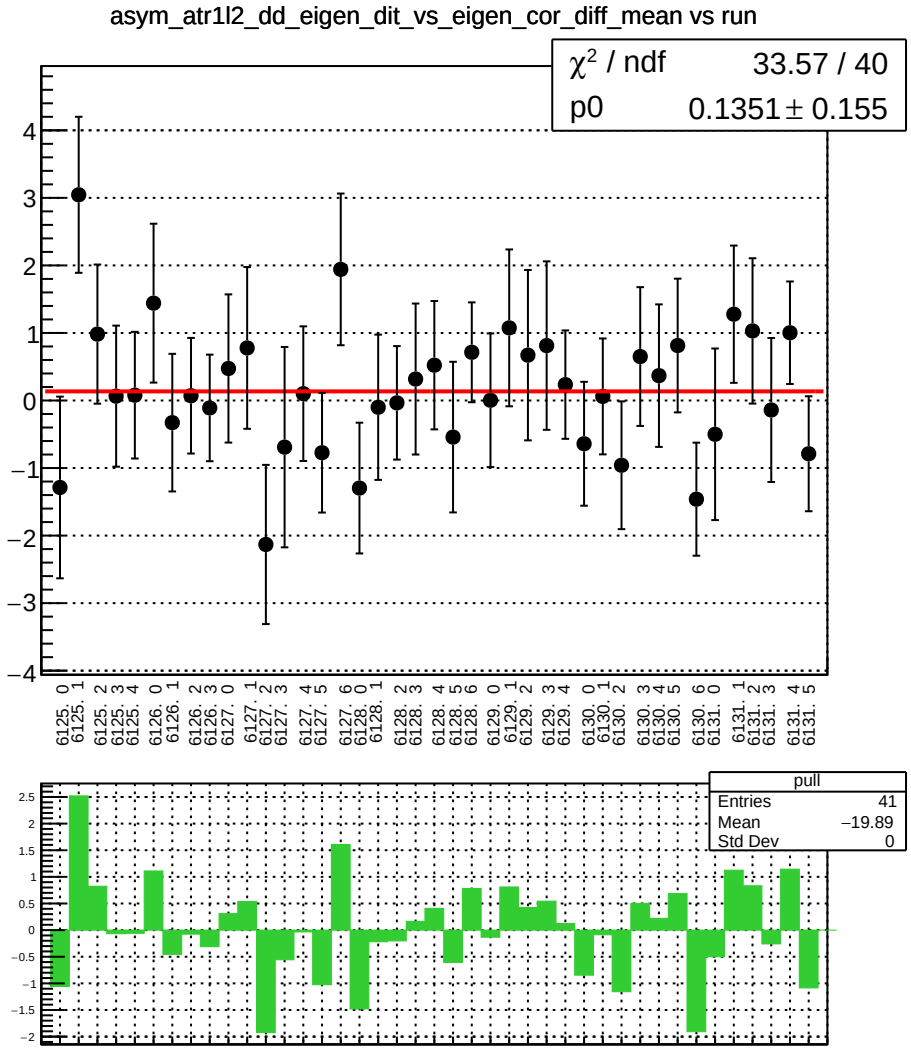

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 28.09 / 40
p0 1.273e−05 ± 1.422e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −658
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.003876
Std Dev 0.8278
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

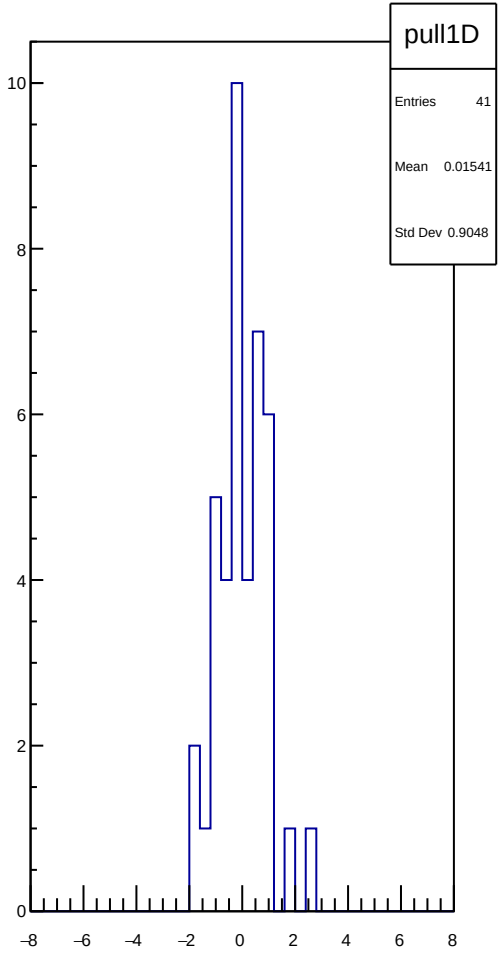

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2661 / 40
p0 0.009003 ± 1.006e−05
0.01
0.0095
0.009
0.0085
0.008
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

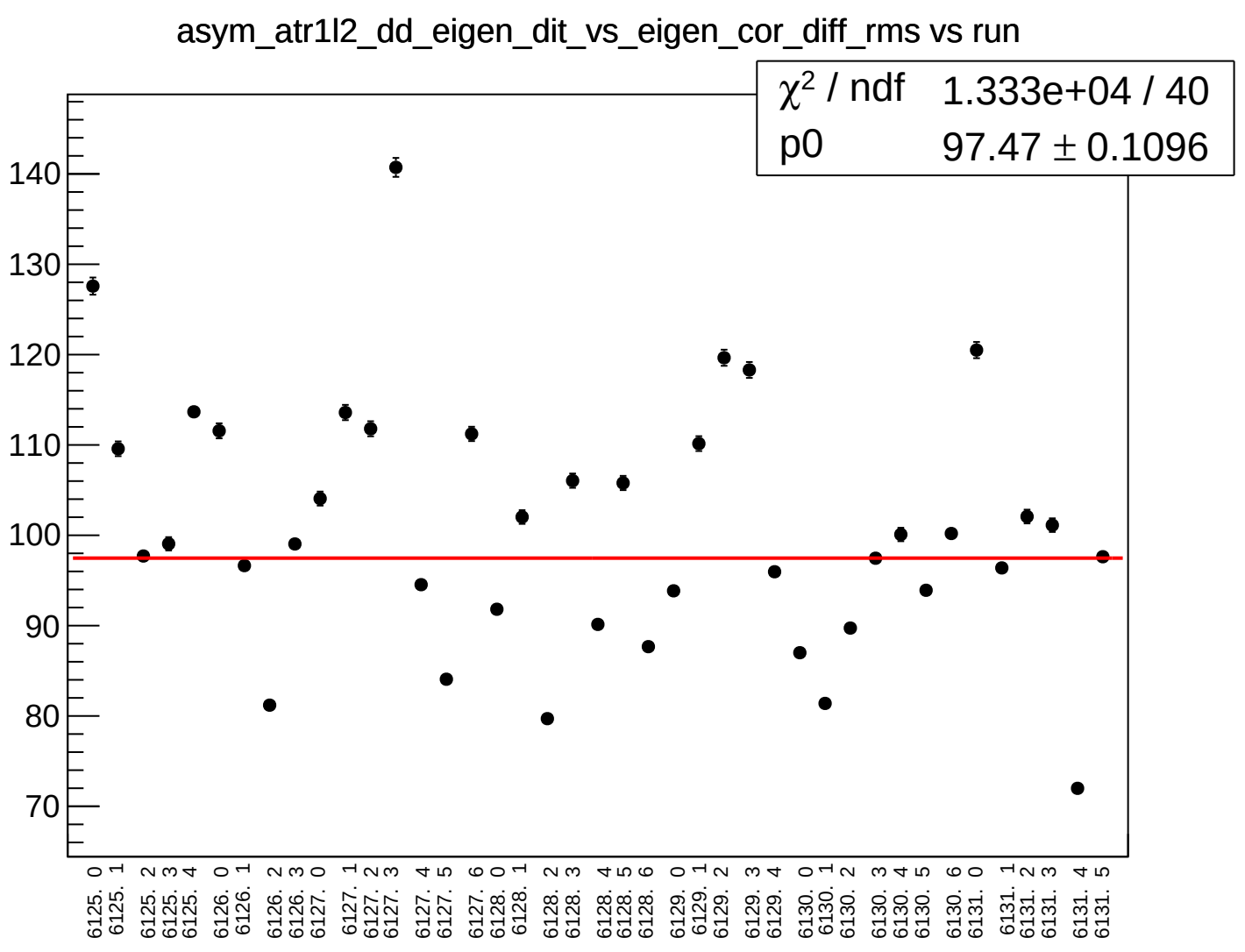

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 33.57 / 40
p0 0.1351 ± 0.155
pull
Entries 41
Mean −19.89
Std Dev 0

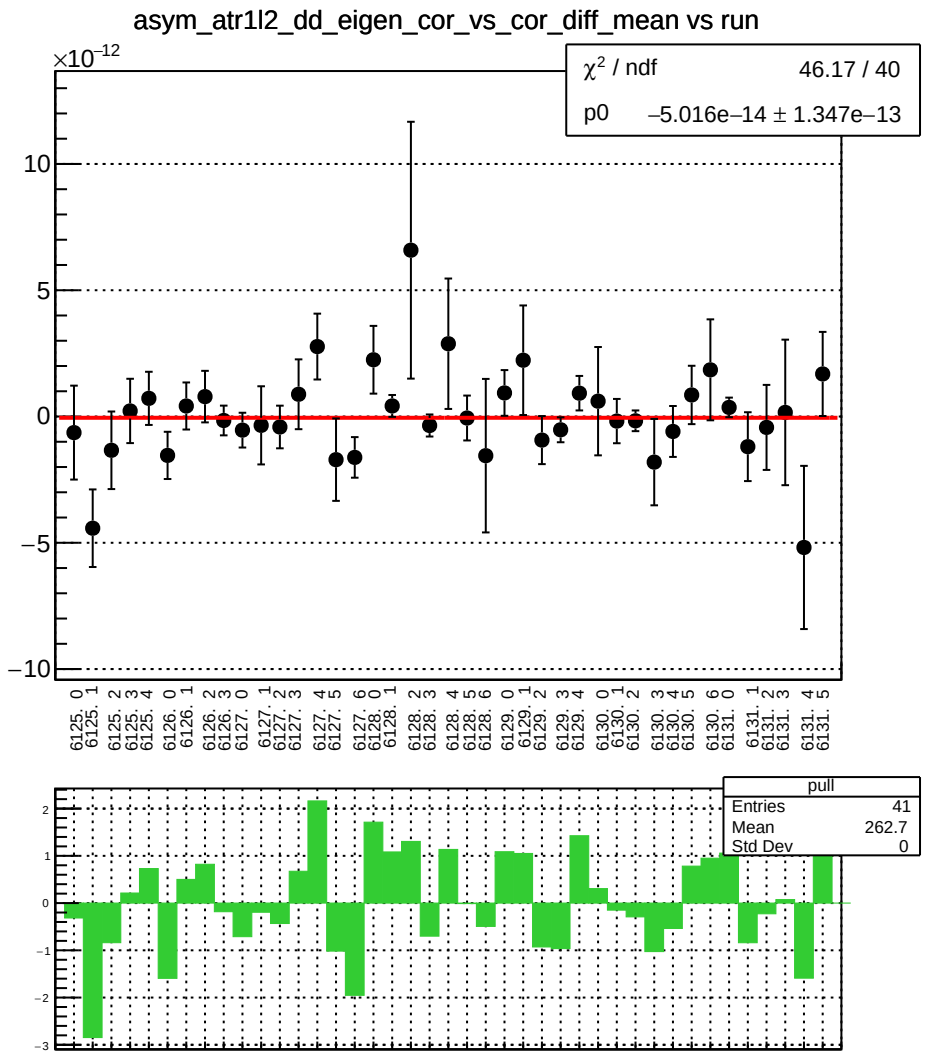

pull1D
Entries 41
Mean 0.01541
Std Dev 0.9048

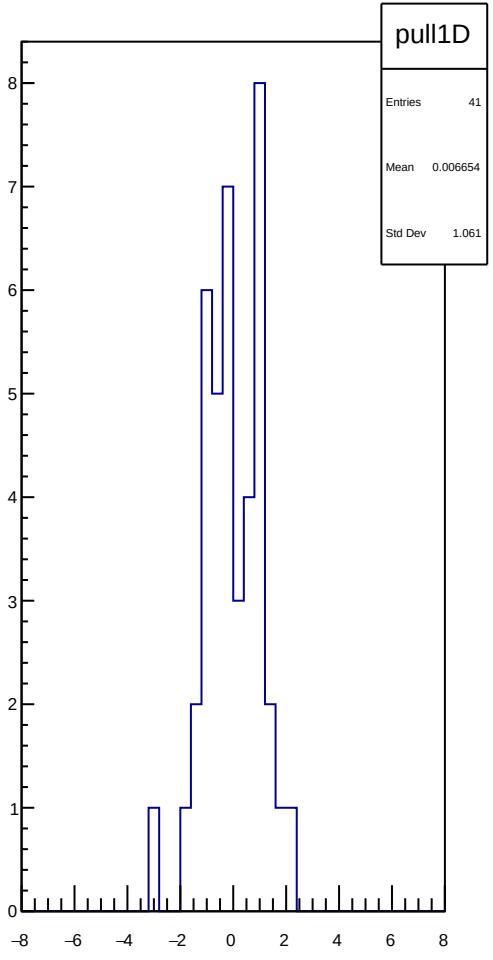

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.333e+04 / 40
p0 97.47 ± 0.1096
140
130
120
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

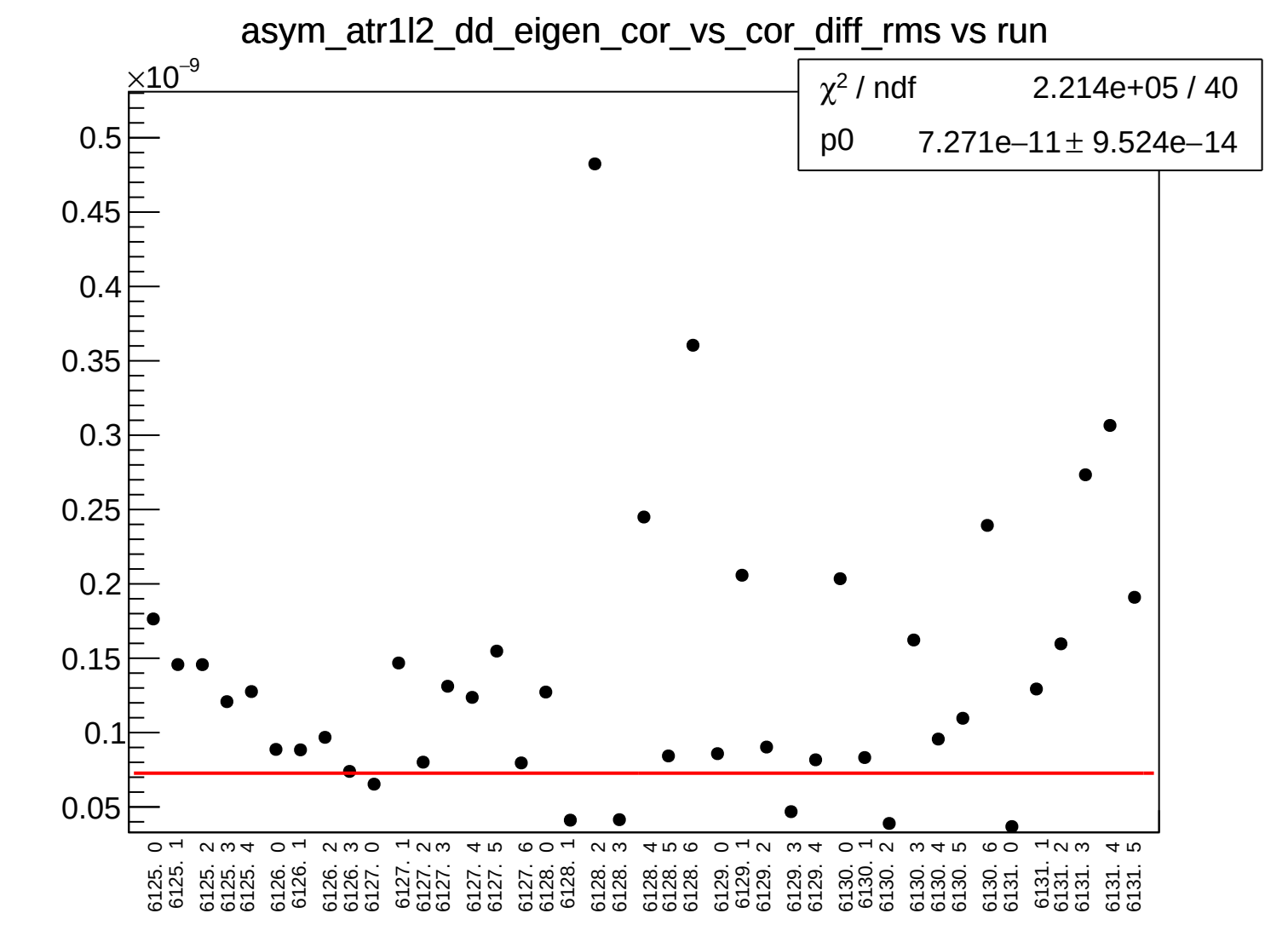

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.57 / 40
p0 0.1351 ± 0.155
pull
Entries 41
Mean −19.89
Std Dev 0

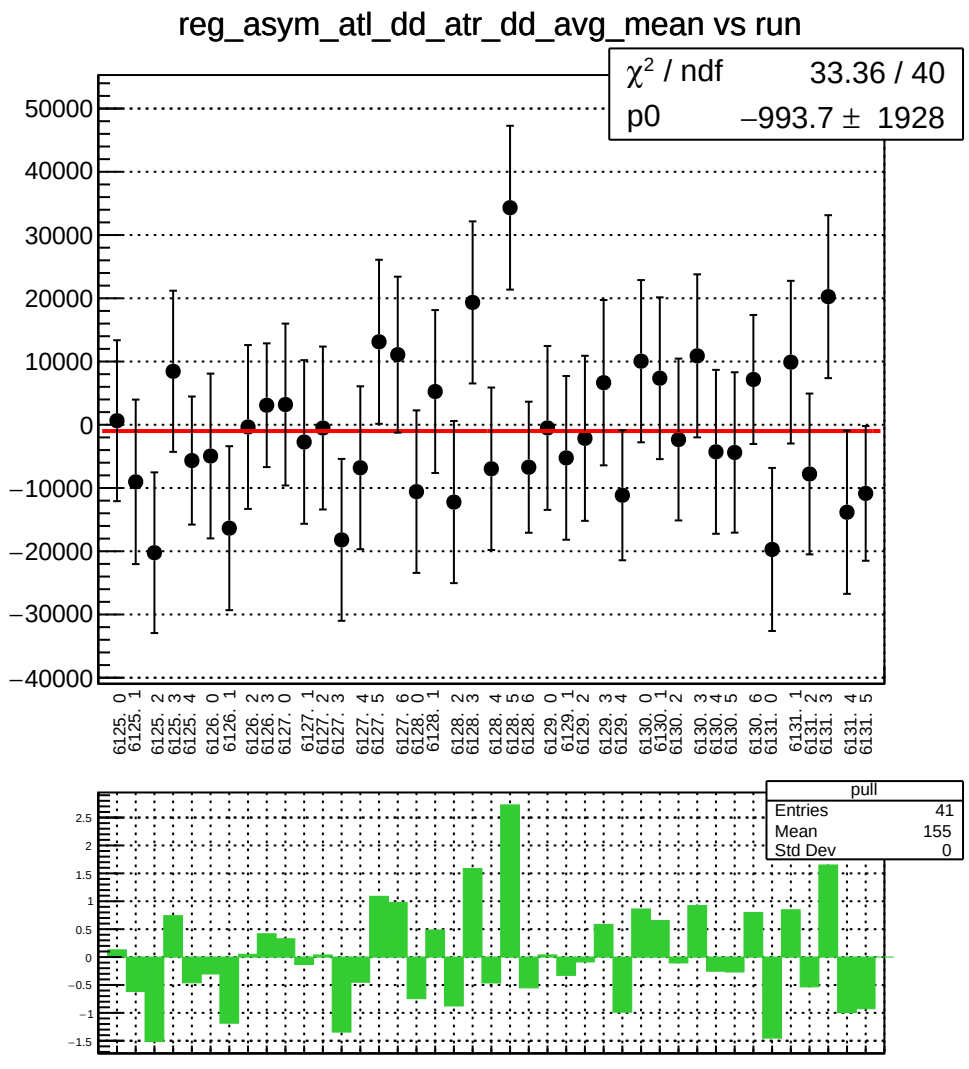

pull1D
Entries 41
Mean 0.01541
Std Dev 0.9048

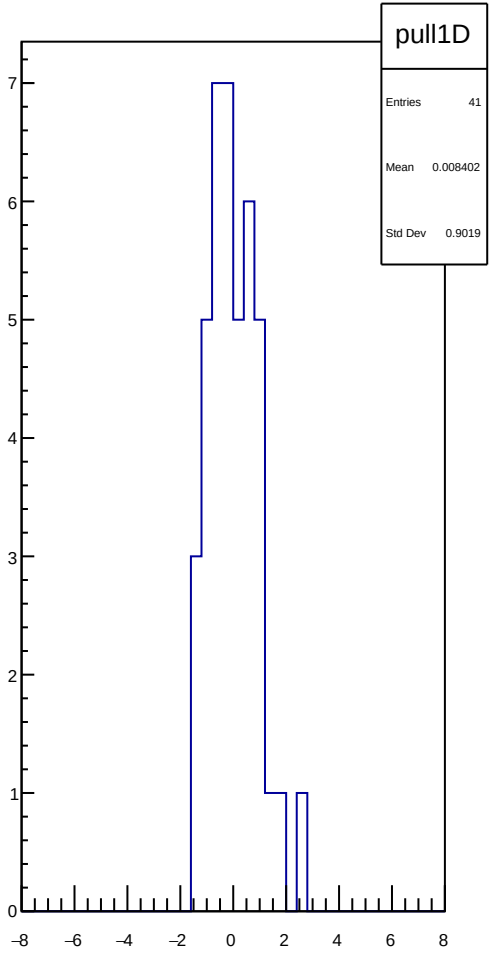

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.333e+04 / 40
p0 97.47 ± 0.1096
140
130
120
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

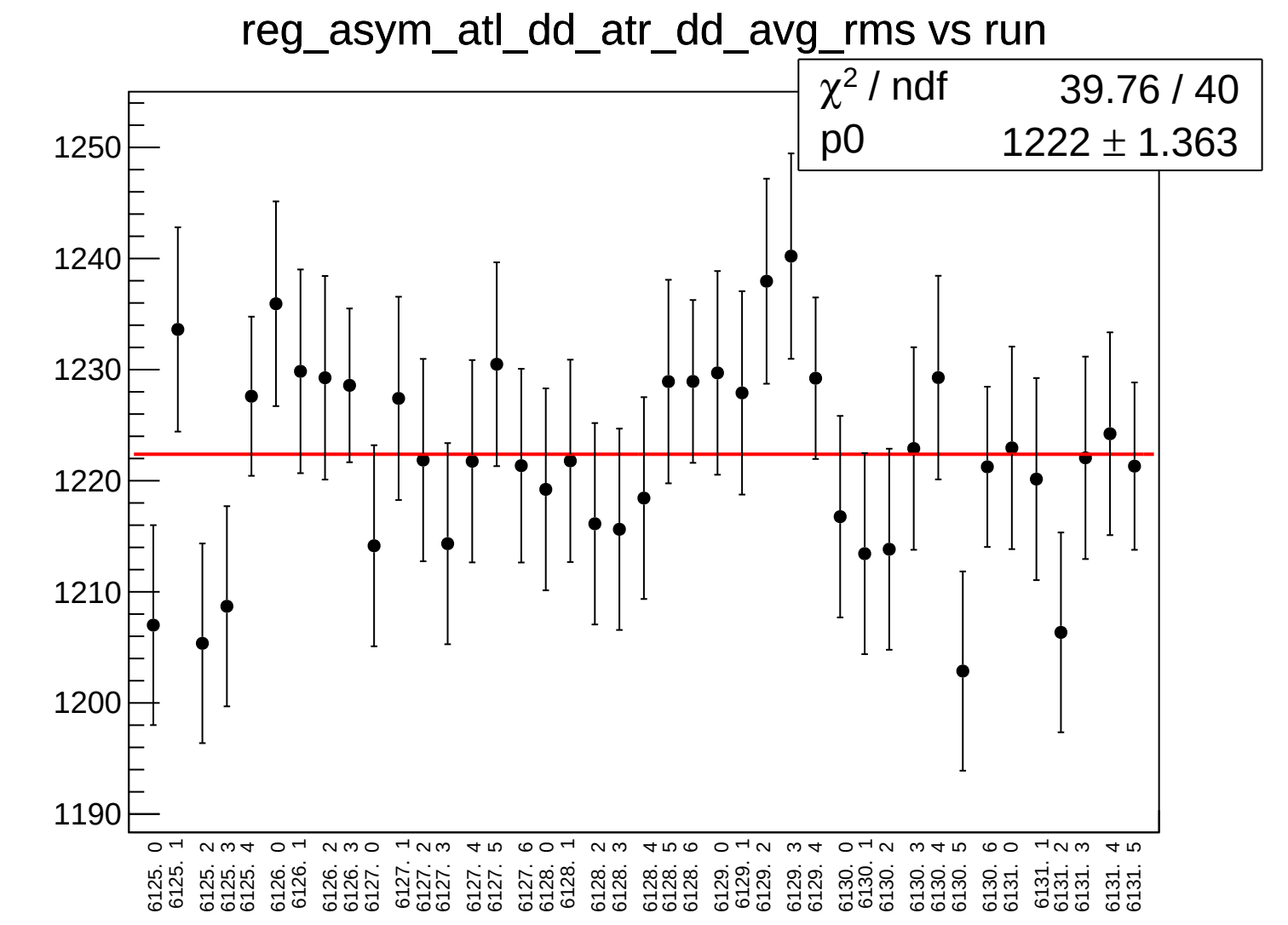

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 46.17 / 40
p0 −5.016e−14 ± 1.347e−13
10
5
0
−5
−10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 262.7
Std Dev 0
2
1
0
−1
−2
−3

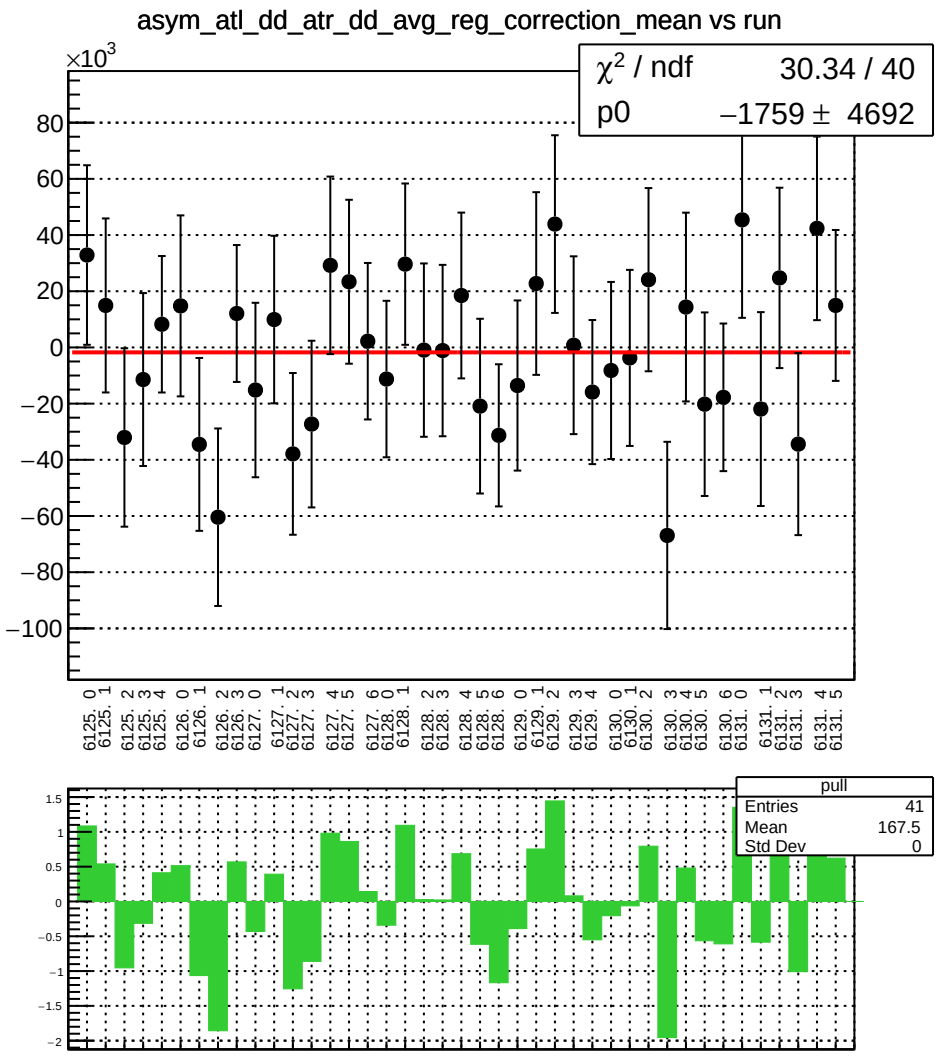

pull1D
Entries 41
Mean 0.006654
Std Dev 1.061
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

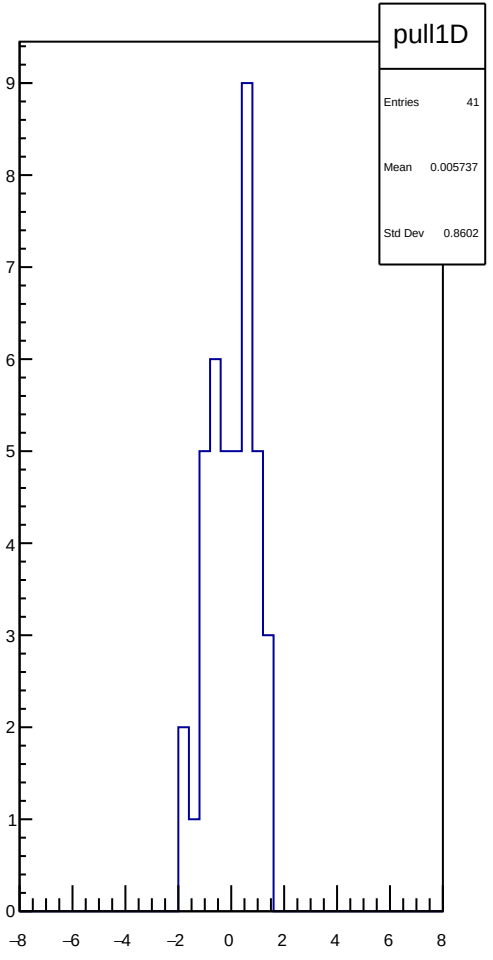

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.214e+05 / 40
p0 7.271e−11 ± 9.524e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

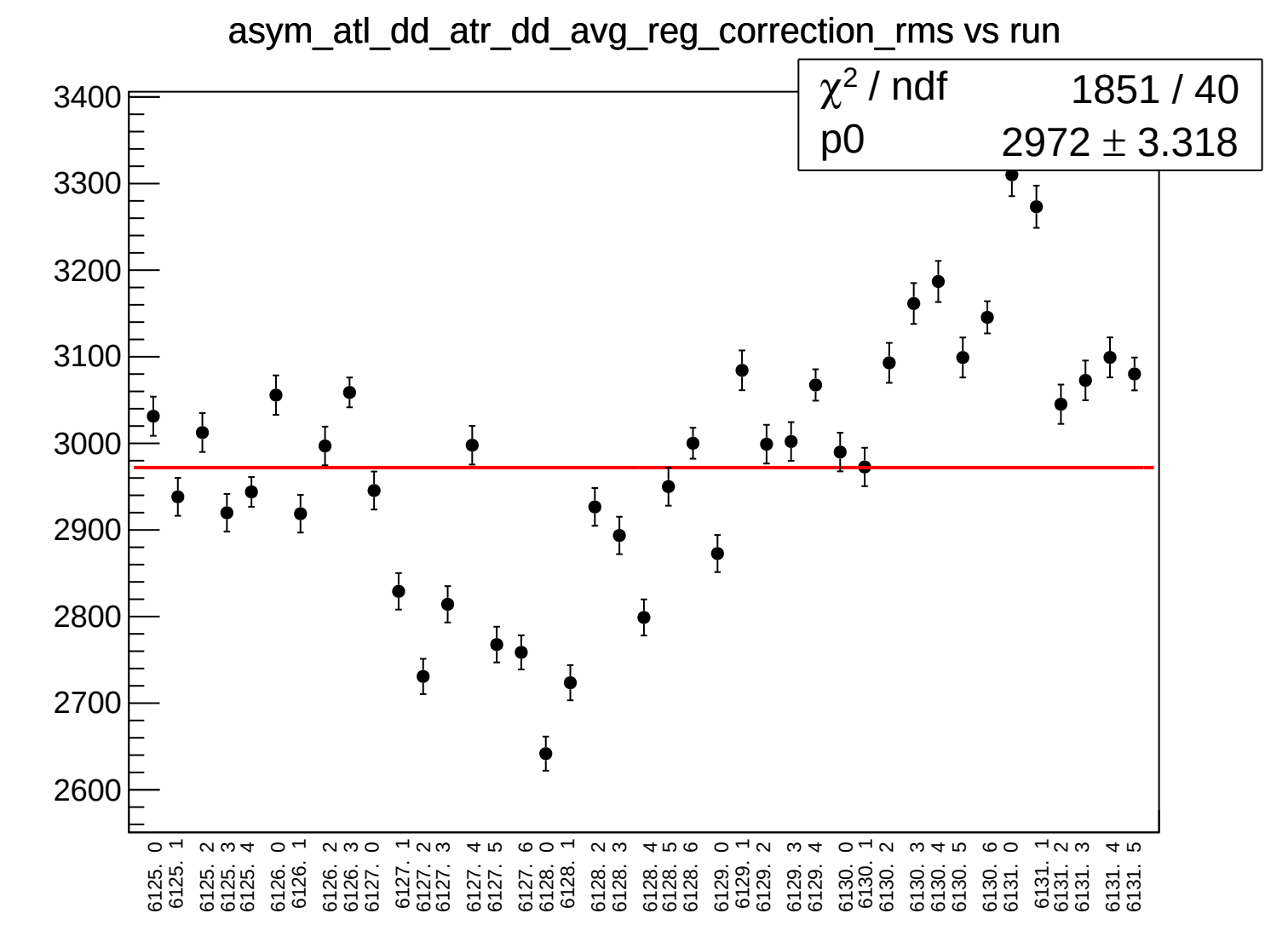

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 33.36 / 40
p0 −993.7 ± 1928
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 155
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

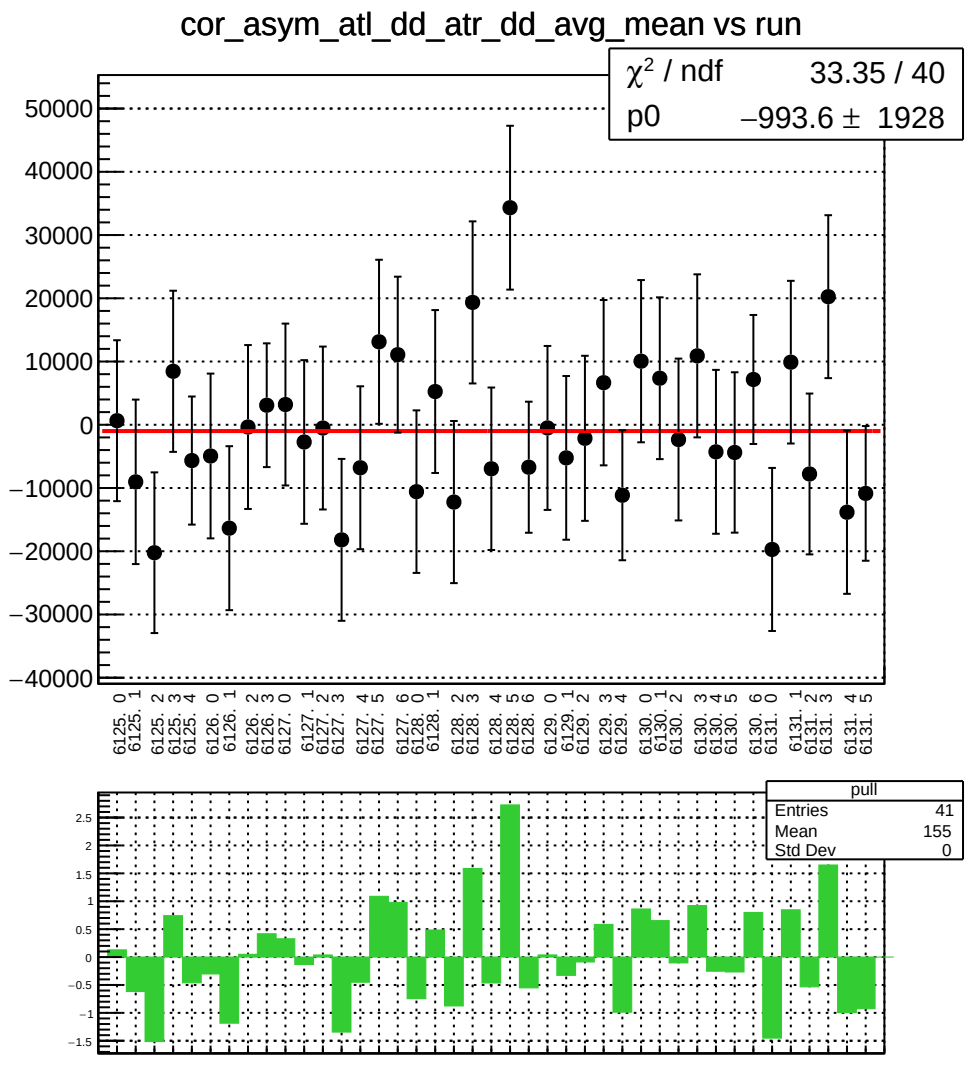

pull1D
Entries 41
Mean 0.008402
Std Dev 0.9019
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

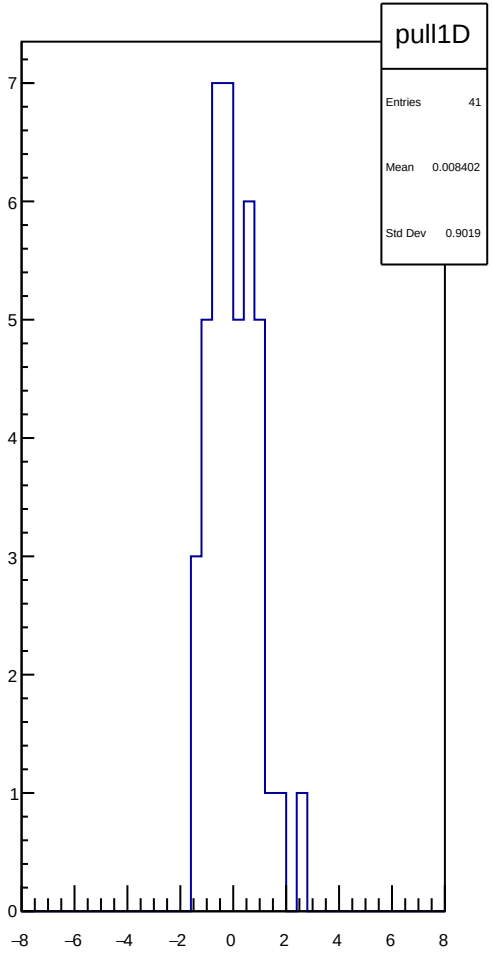

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 39.76 / 40
p0 1222 ± 1.363
1250
1240
1230
1220
1210
1200
1190
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

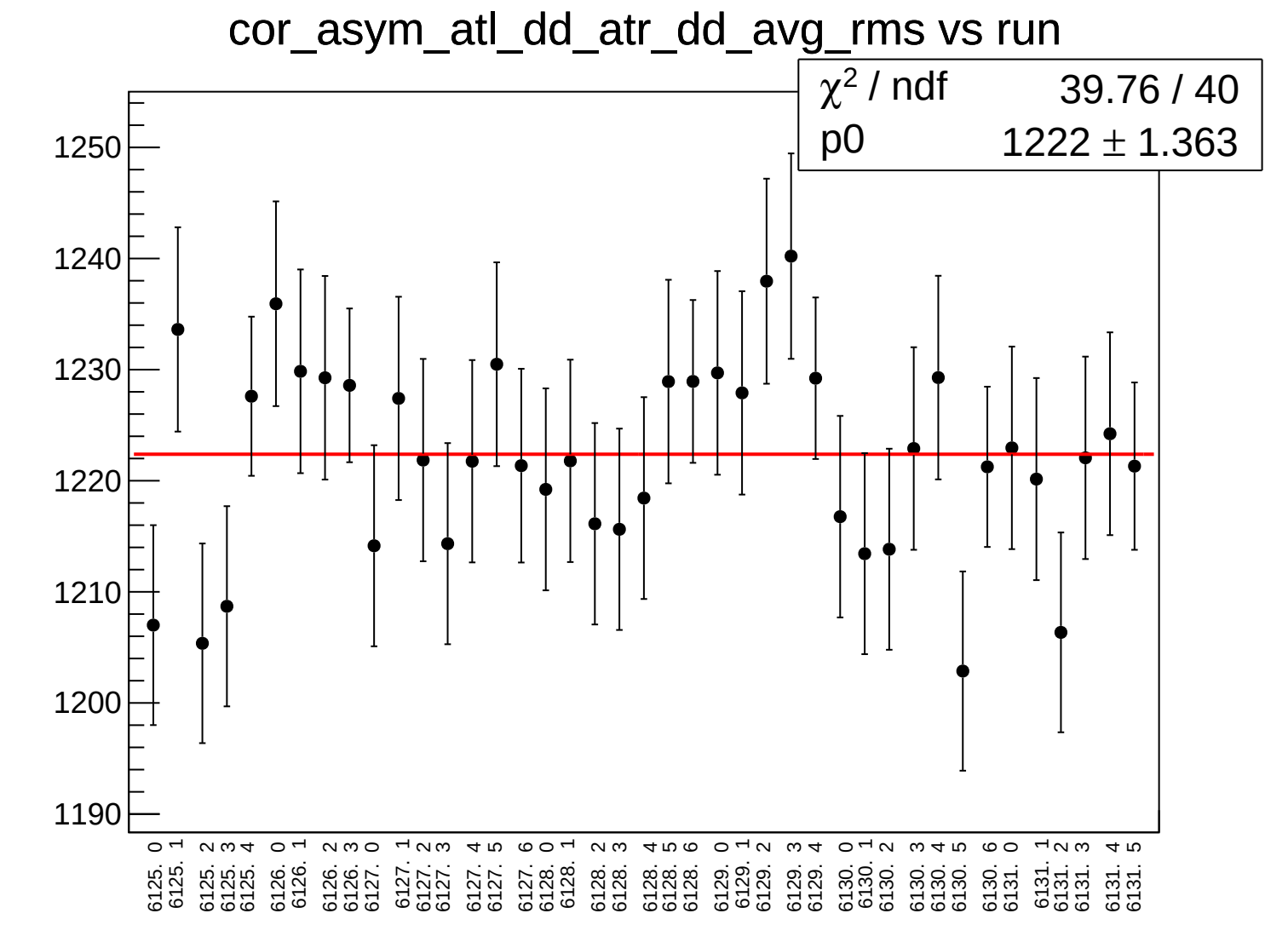

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
χ² / ndf 30.34 / 40
p0 −1759 ± 4692
pull
Entries 41
Mean 167.5
Std Dev 0

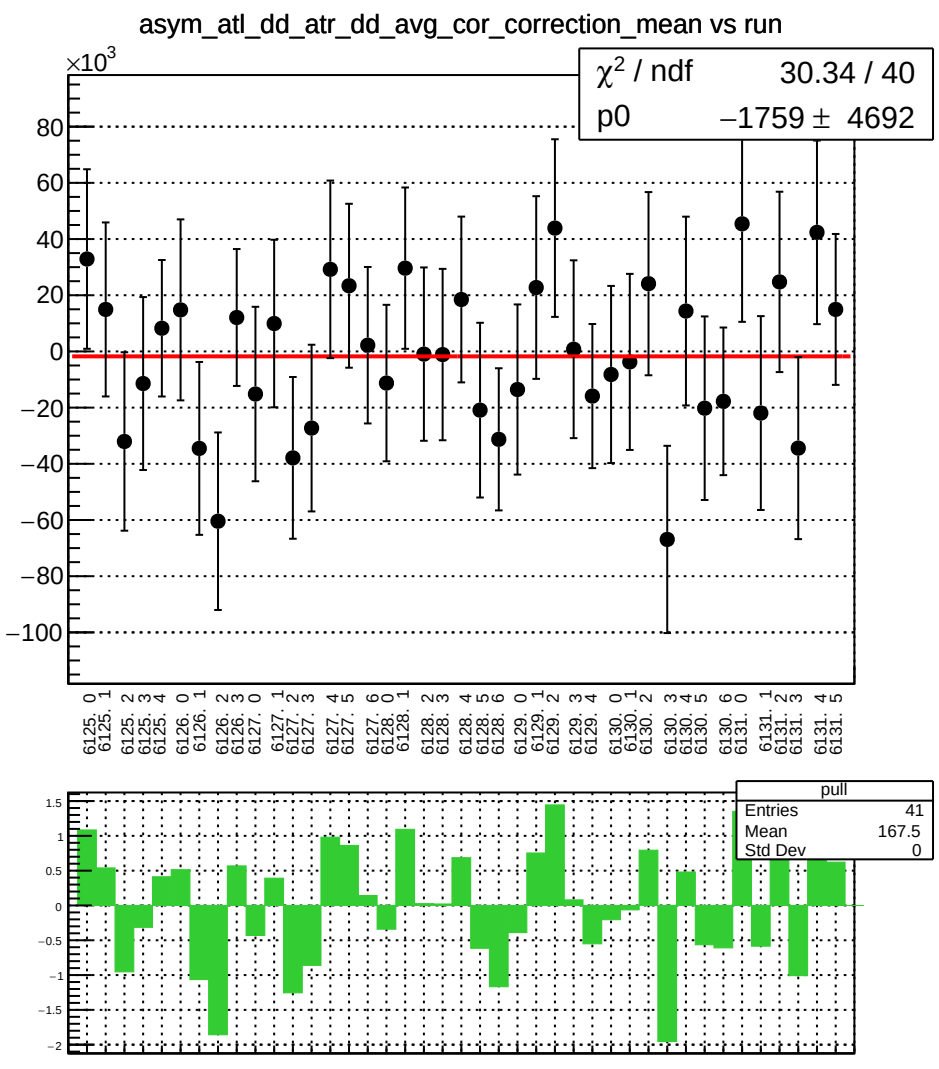

pull1D
Entries 41
Mean 0.005737
Std Dev 0.8602

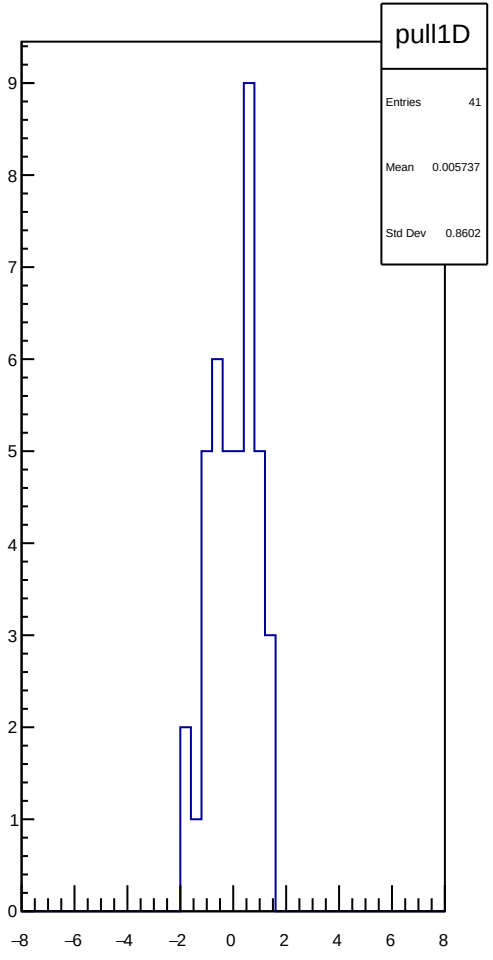

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 1851 / 40
p0 2972 ± 3.318
3400
3300
3200
3100
3000
2900
2800
2700
2600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

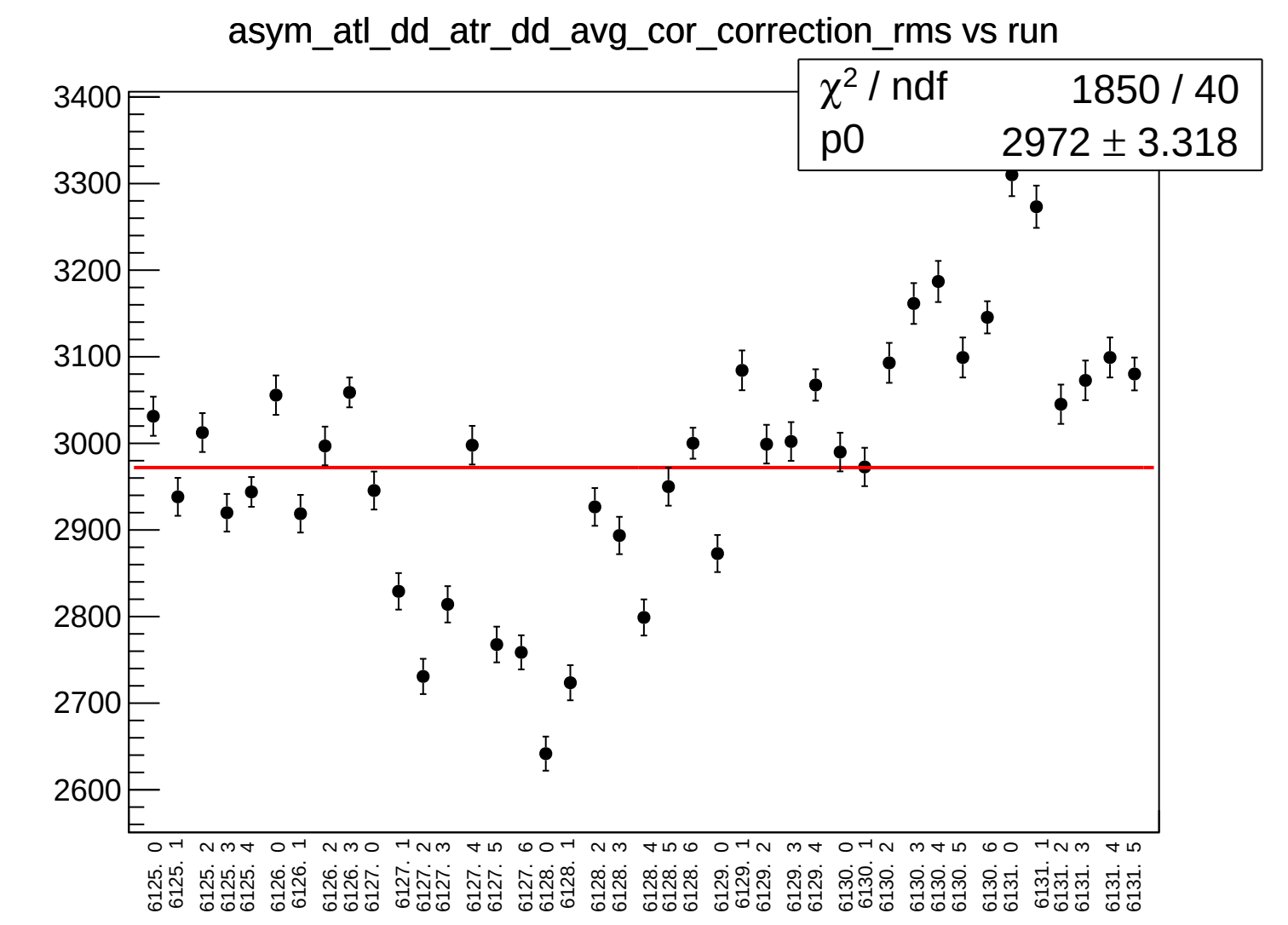

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 33.35 / 40
p0 −993.6 ± 1928
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 155
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

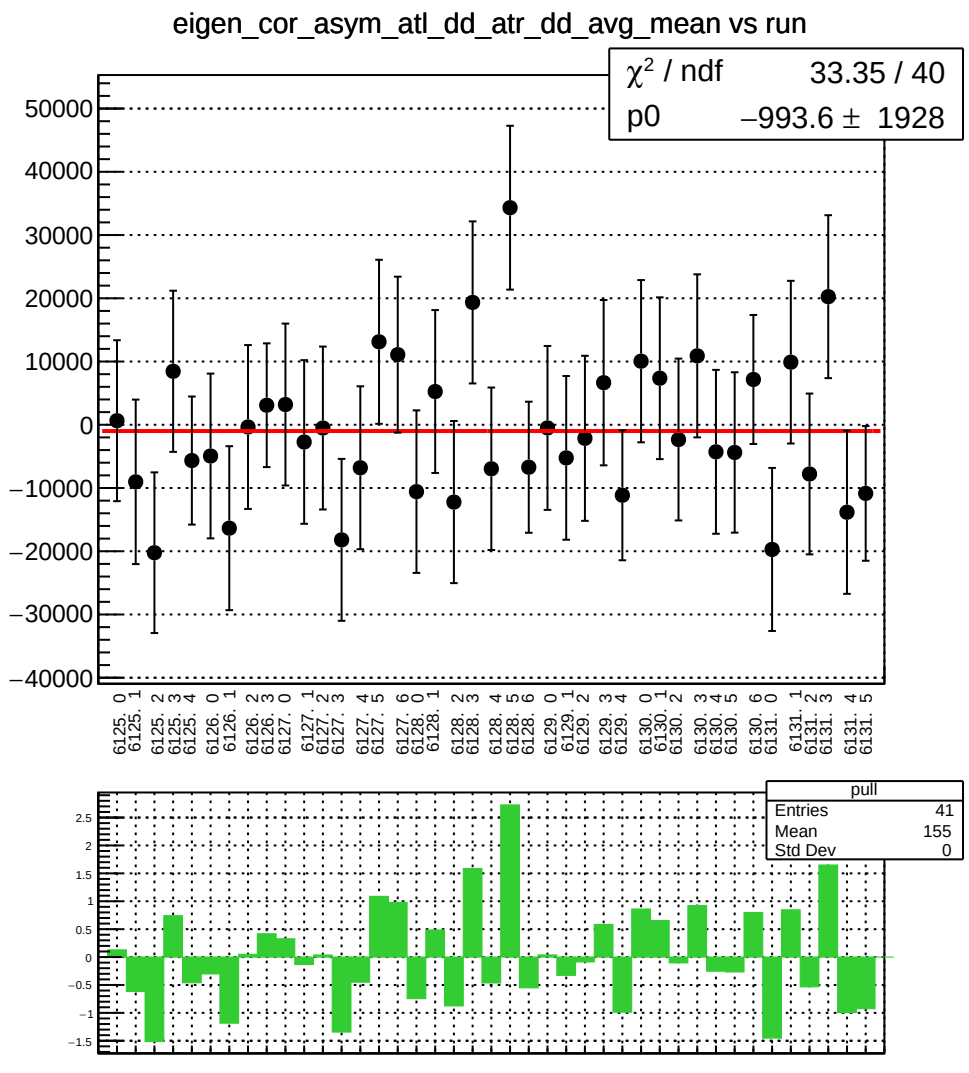

pull1D
Entries 41
Mean 0.008402
Std Dev 0.9019
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

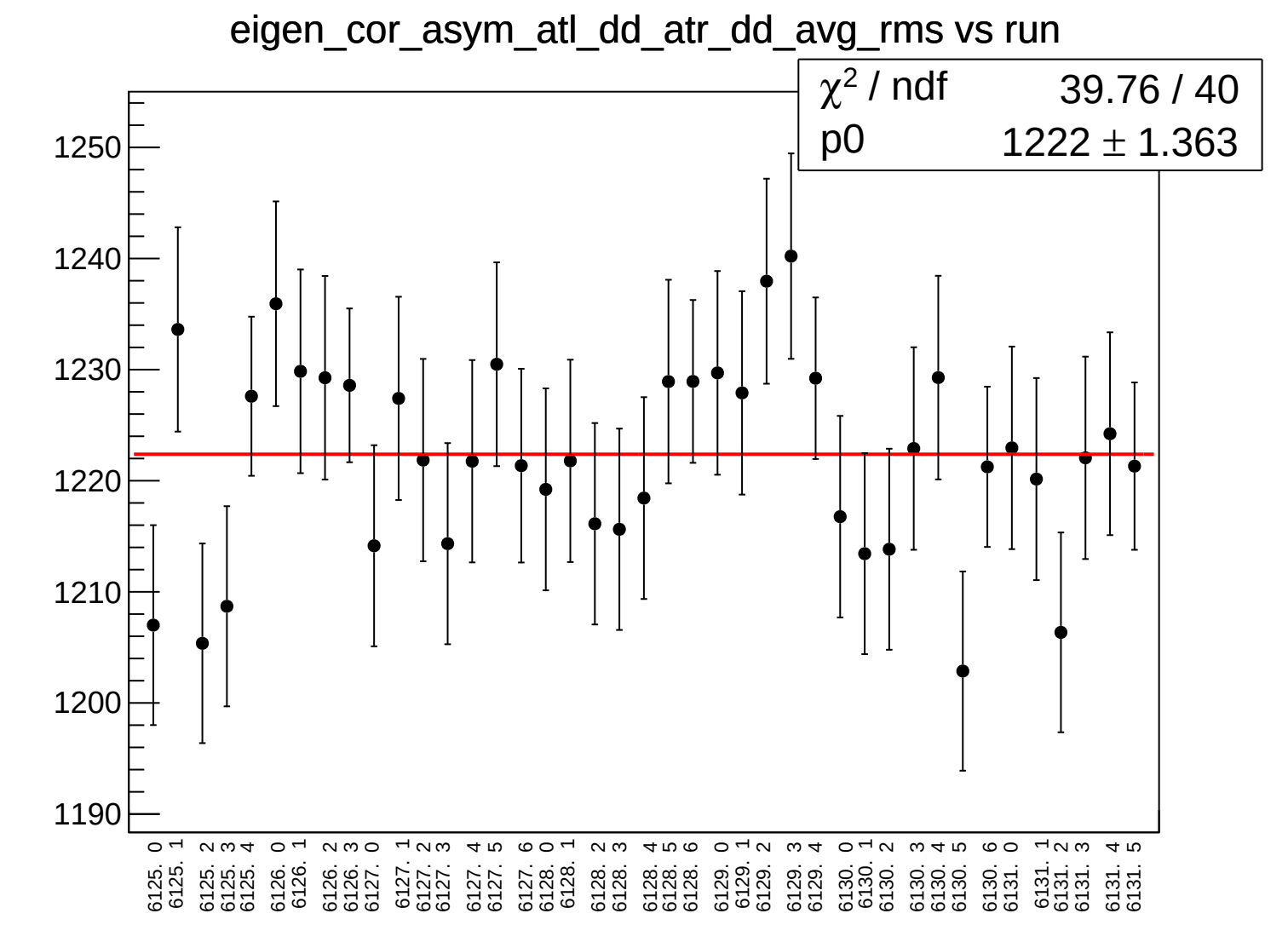

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 39.76 / 40
p0 1222 ± 1.363
1250
1240
1230
1220
1210
1200
1190
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

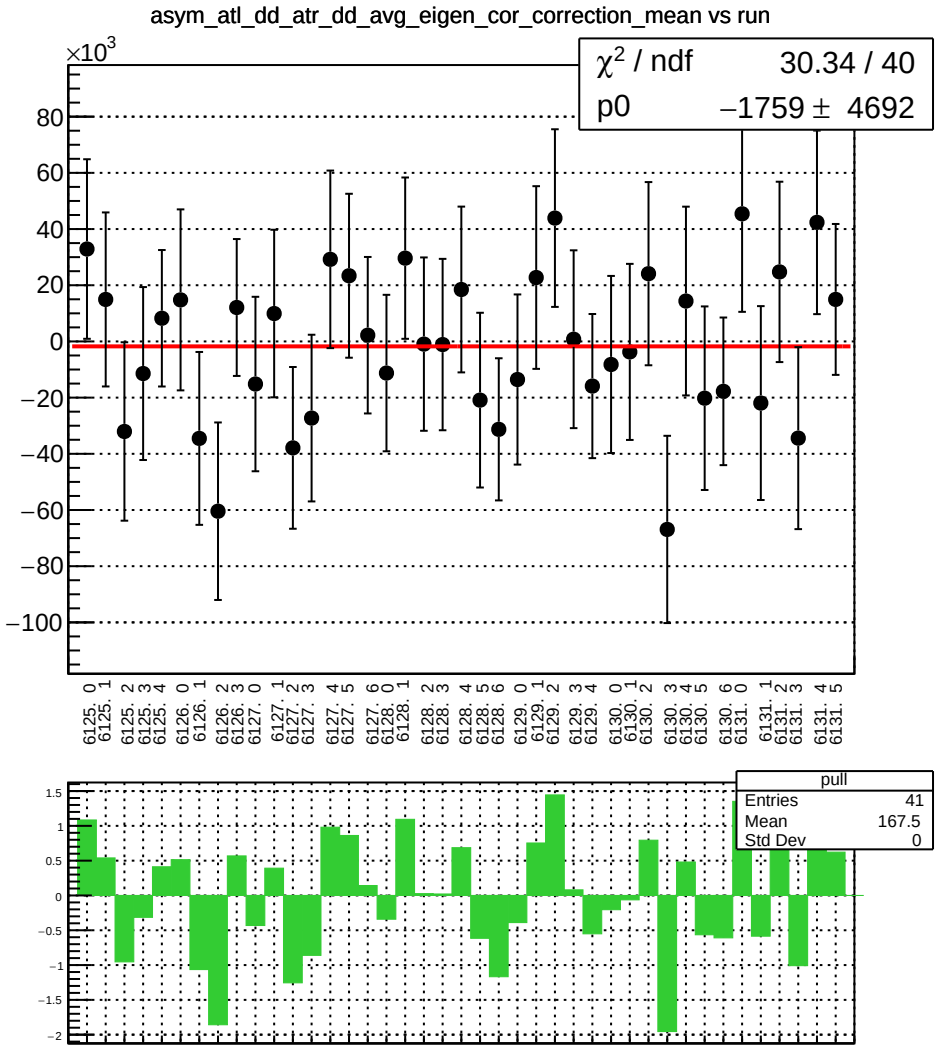

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 30.34 / 40
p0 −1759 ± 4692
80
60
40
20
0
−20
−40
−60
−80
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 167.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

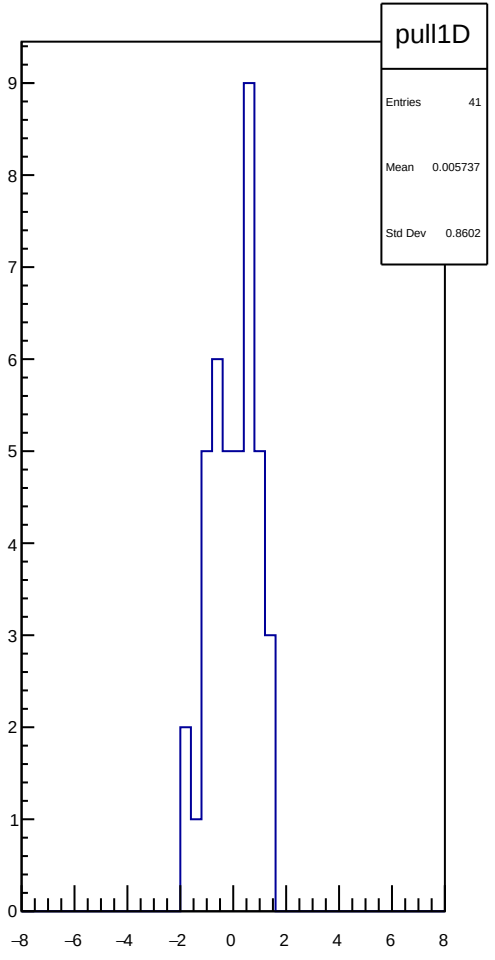

pull1D
Entries 41
Mean 0.005737
Std Dev 0.8602
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

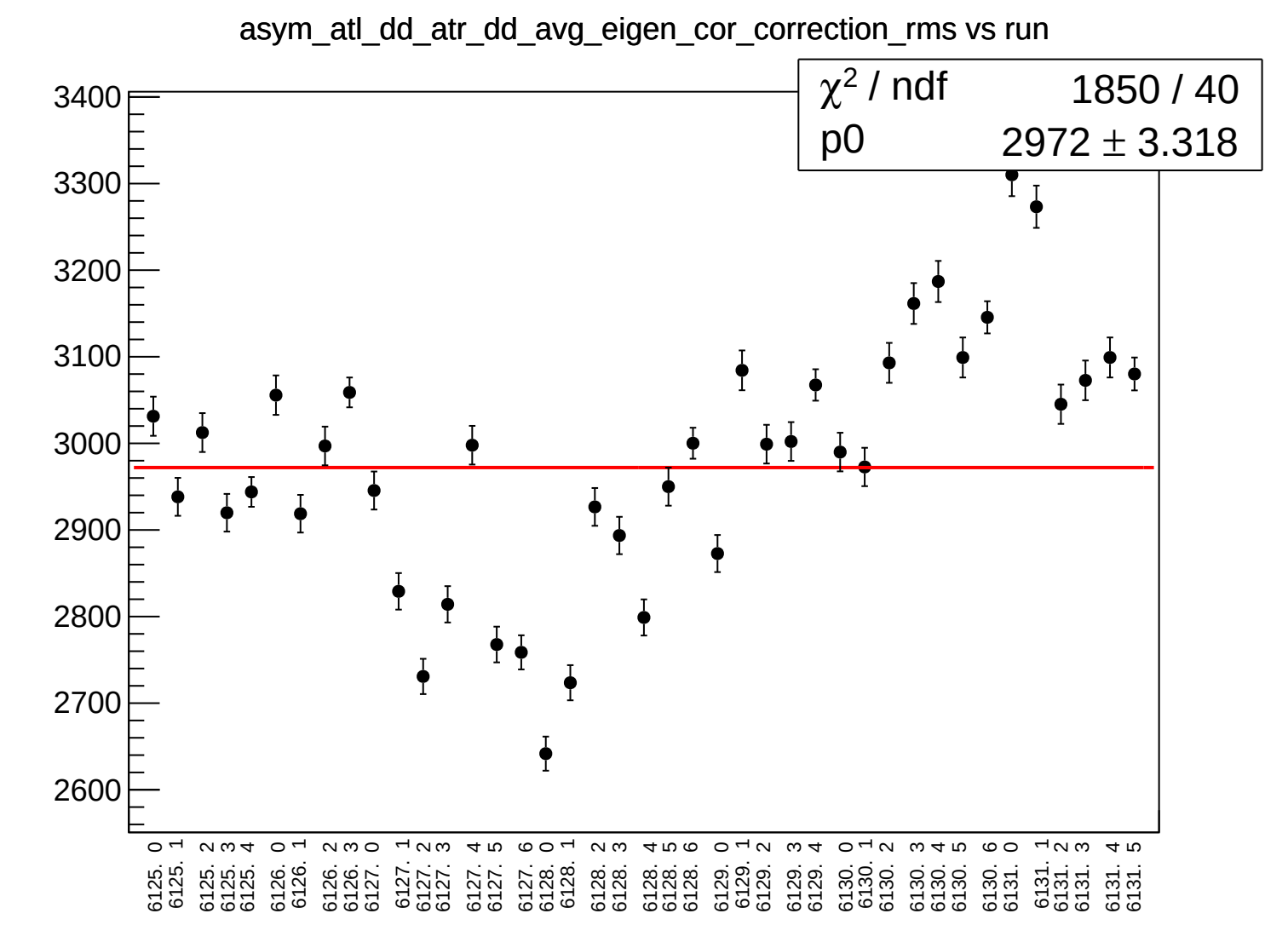

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 1850 / 40
p0 2972 ± 3.318
3400
3300
3200
3100
3000
2900
2800
2700
2600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

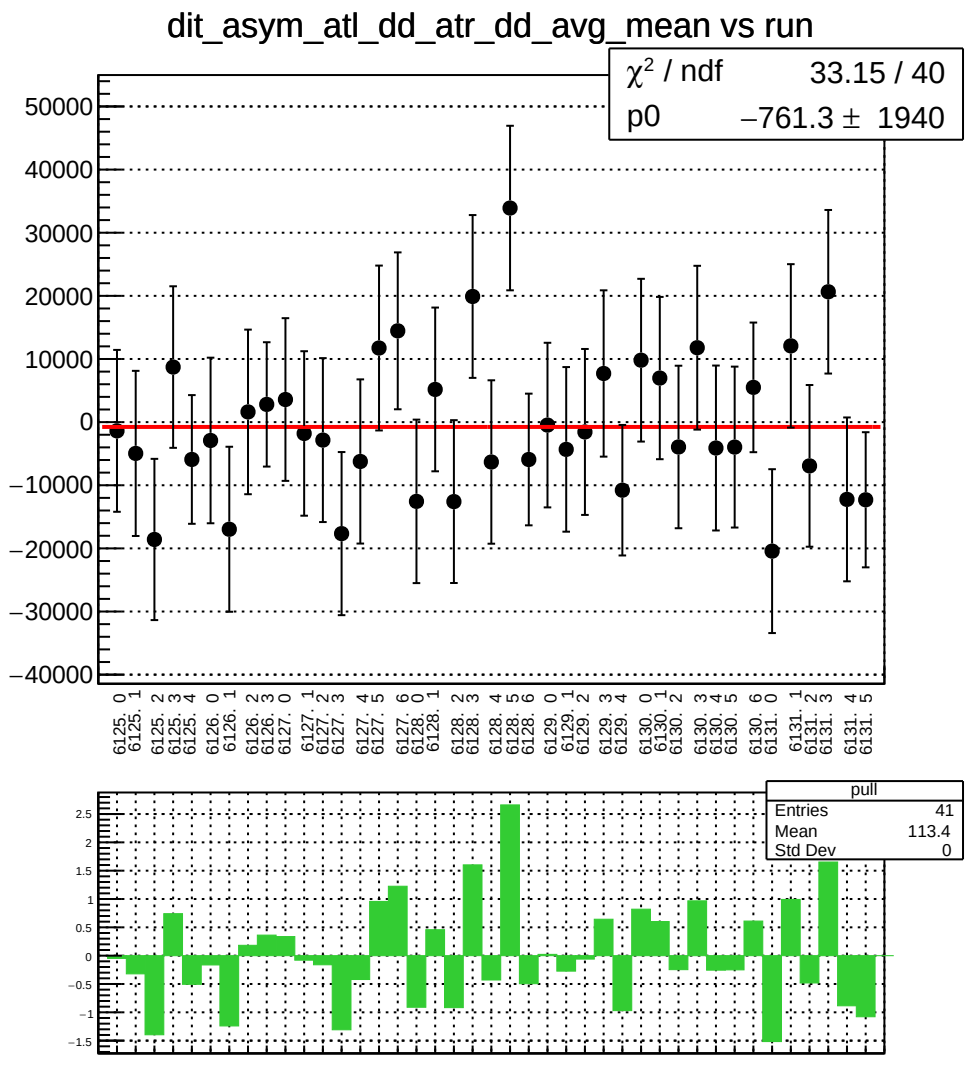

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 33.35 / 40
p0 −993.6 ± 1928
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 155
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.008402
Std Dev 0.9019
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

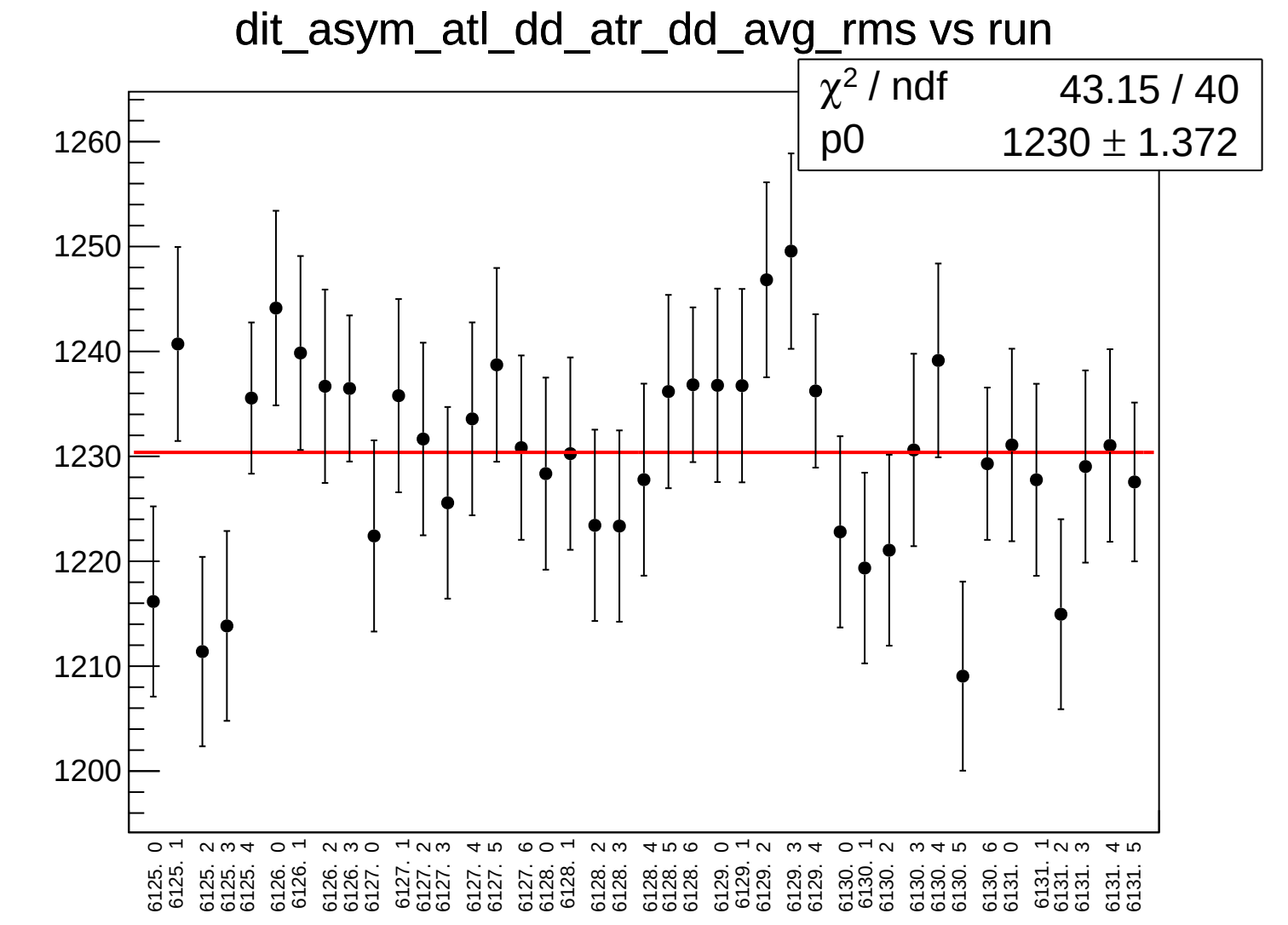

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 39.76 / 40
p0 1222 ± 1.363
1250
1240
1230
1220
1210
1200
1190
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

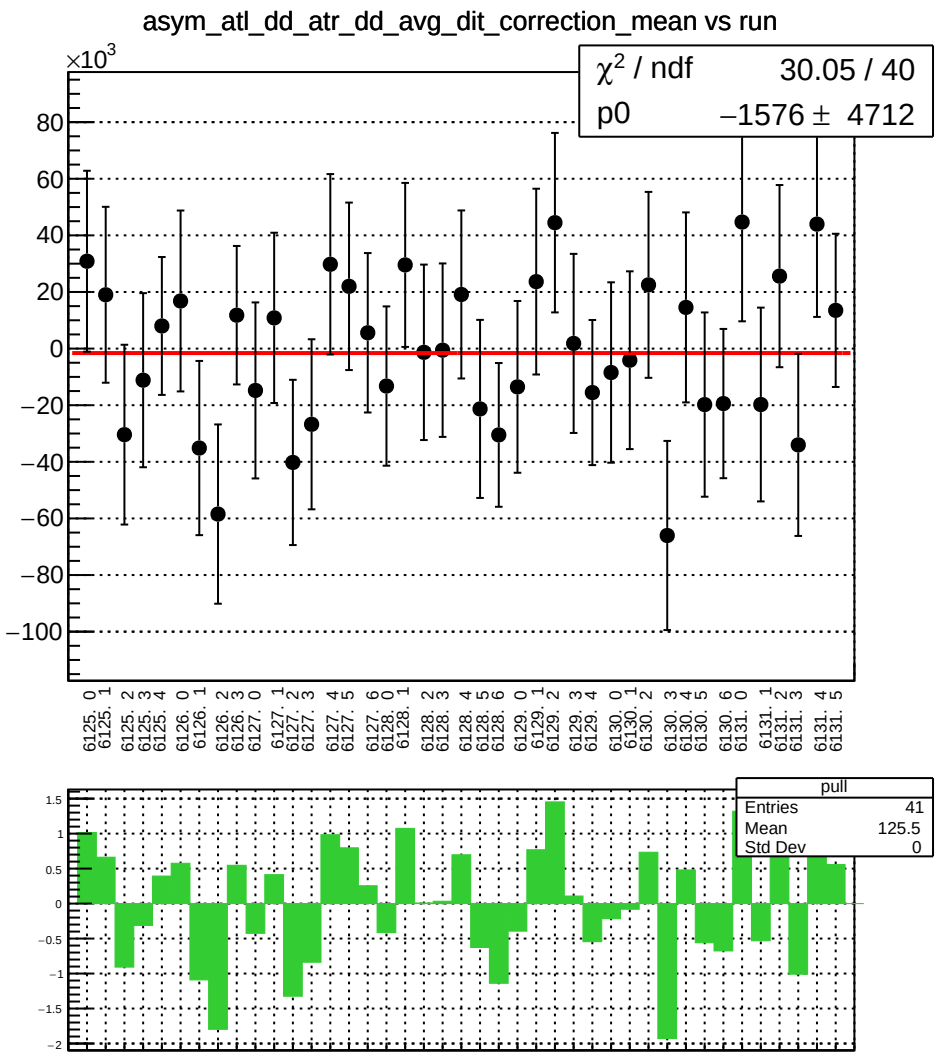

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 30.34 / 40
p0 −1759 ± 4692
pull
Entries 41
Mean 167.5
Std Dev 0

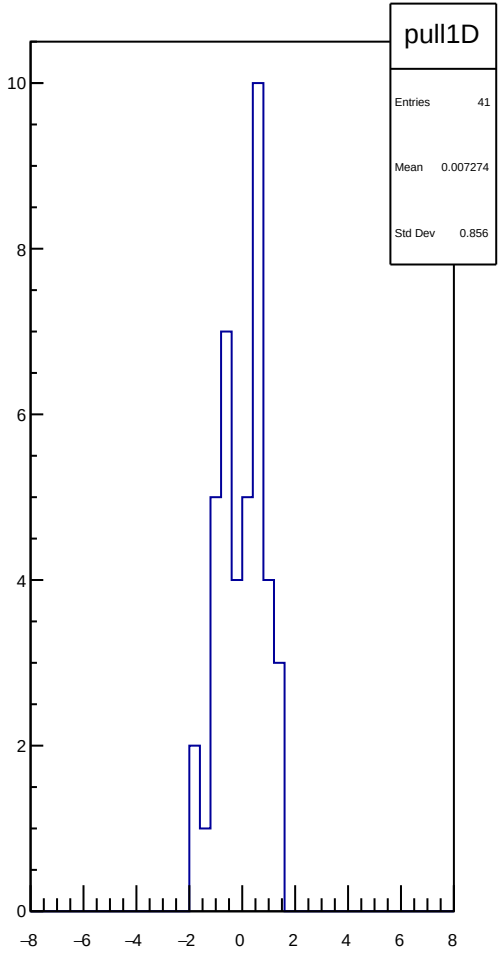

pull1D
Entries 41
Mean 0.005737
Std Dev 0.8602

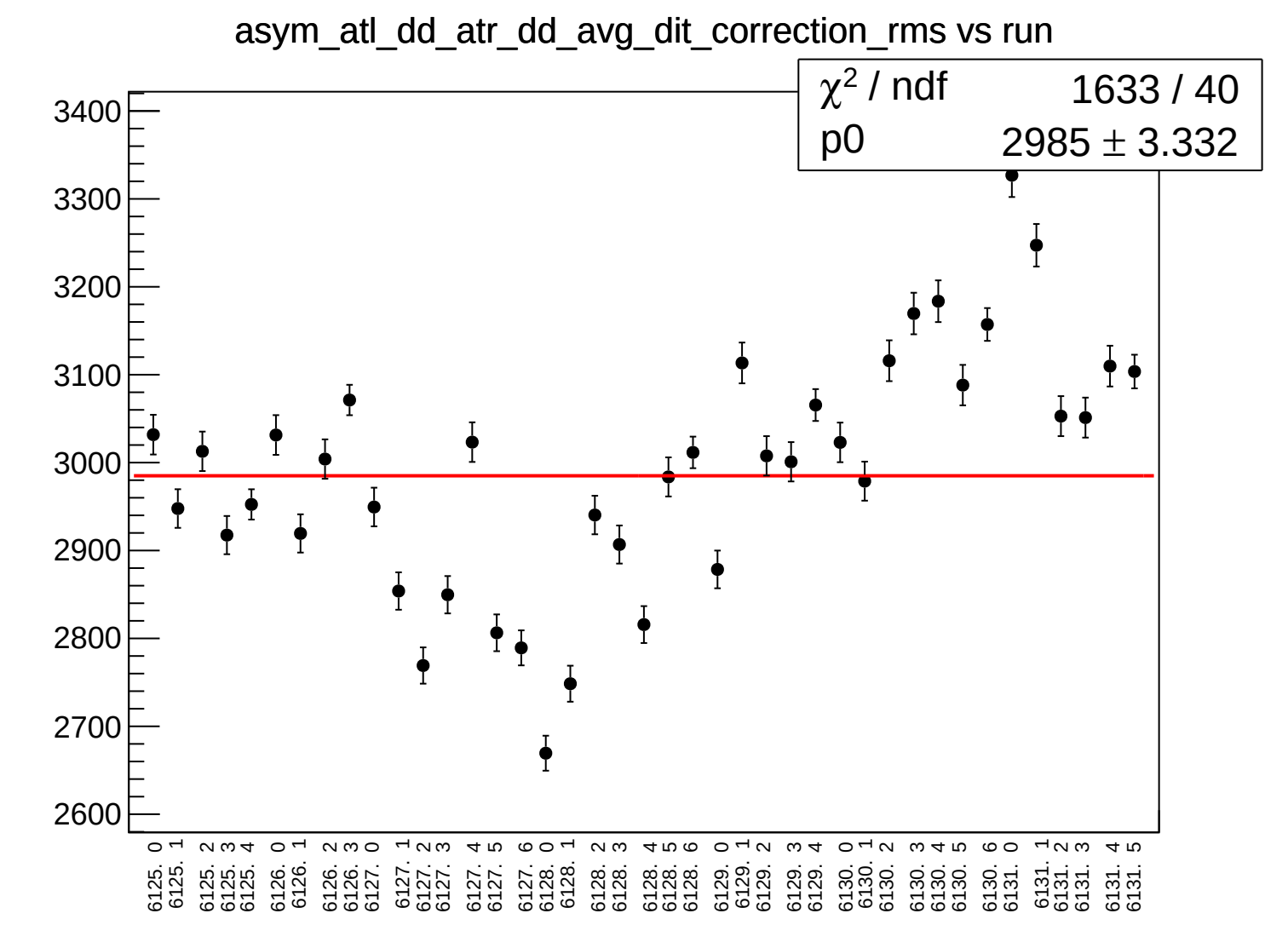

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1850 / 40
p0 2972 ± 3.318
3400
3300
3200
3100
3000
2900
2800
2700
2600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

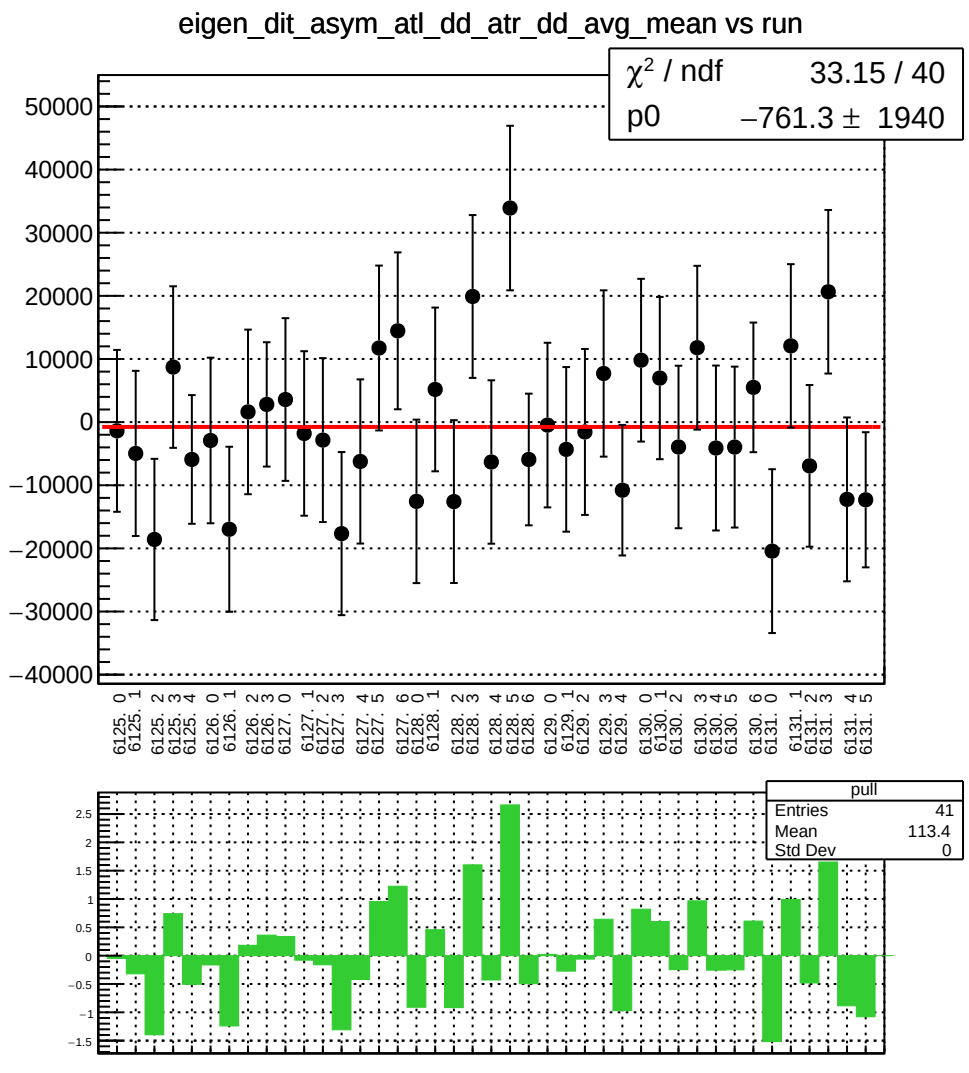

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 33.15 / 40
p0 −761.3 ± 1940
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 113.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.01037
Std Dev 0.8991
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

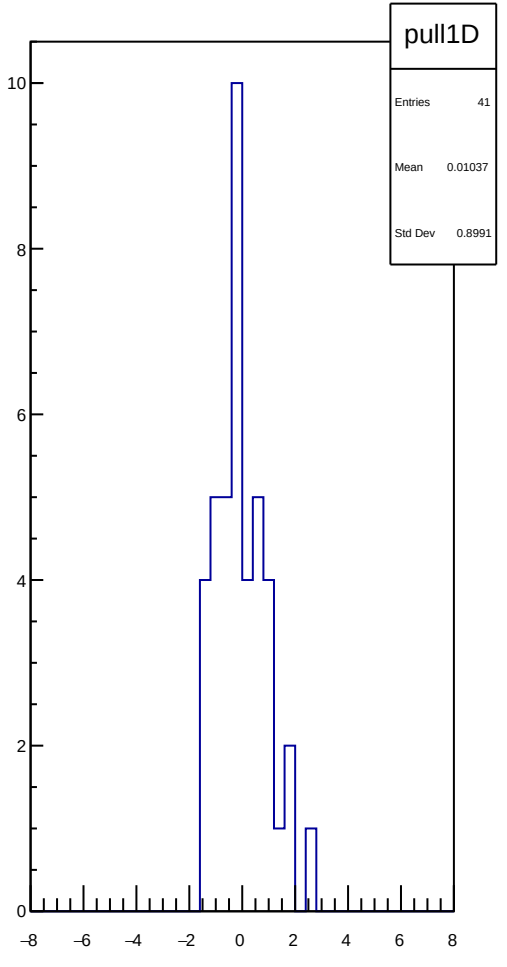

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 43.15 / 40
p0 1230 ± 1.372
1260
1250
1240
1230
1220
1210
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

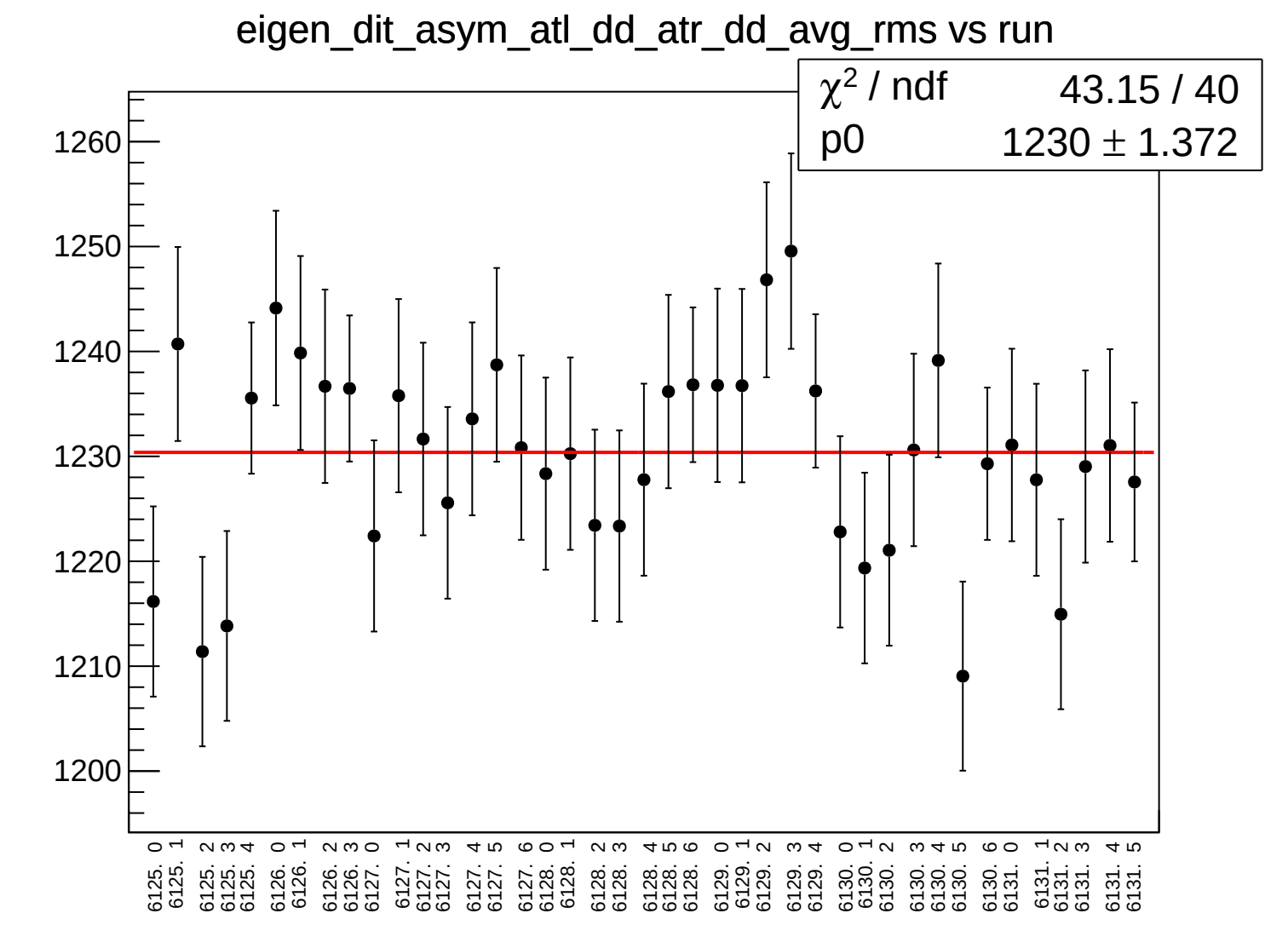

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
χ² / ndf 30.05 / 40
p0 −1576 ± 4712
pull
Entries 41
Mean 125.5
Std Dev 0

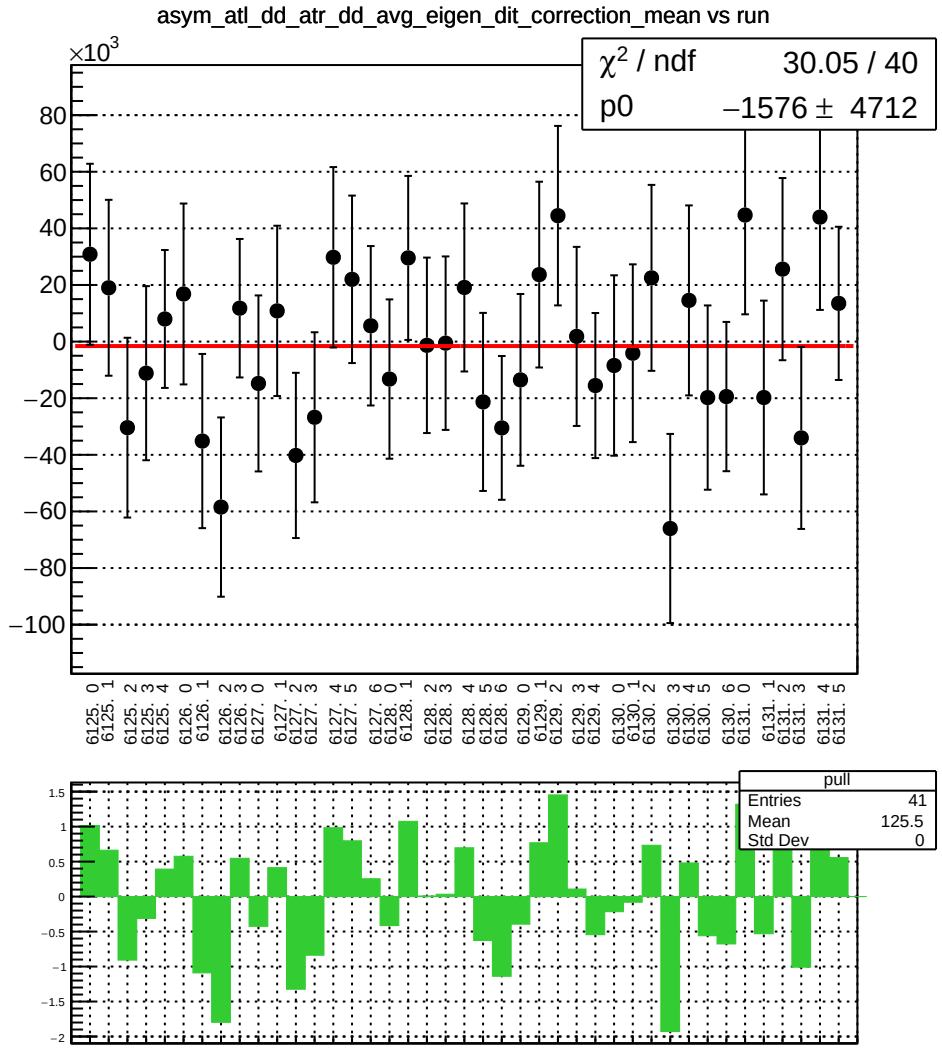

pull1D
Entries 41
Mean 0.007274
Std Dev 0.856

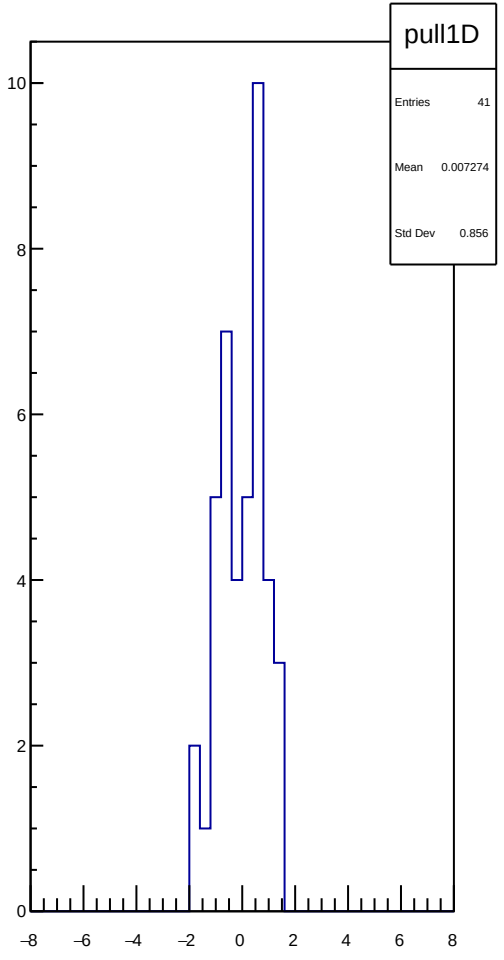

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 1633 / 40
p0 2985 ± 3.332
3400
3300
3200
3100
3000
2900
2800
2700
2600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

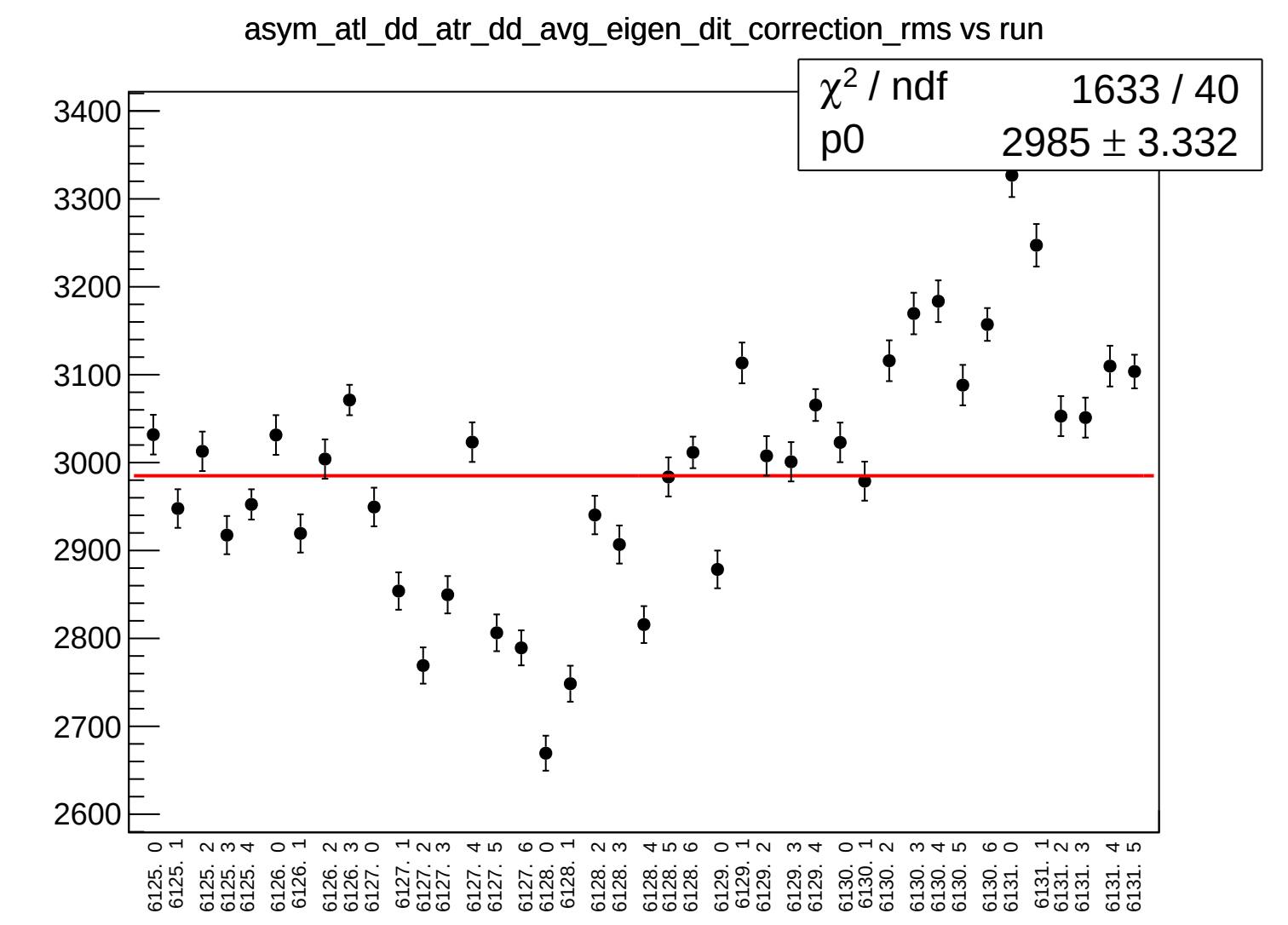

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 33.15 / 40
p0 −761.3 ± 1940
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 113.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.01037
Std Dev 0.8991
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 43.15 / 40
p0 1230 ± 1.372
1260
1250
1240
1230
1220
1210
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 30.05 / 40
p0 −1576 ± 4712
pull
Entries 41
Mean 125.5
Std Dev 0


pull1D
Entries 41
Mean 0.007274
Std Dev 0.856


asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1633 / 40
p0 2985 ± 3.332
3400
3300
3200
3100
3000
2900
2800
2700
2600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
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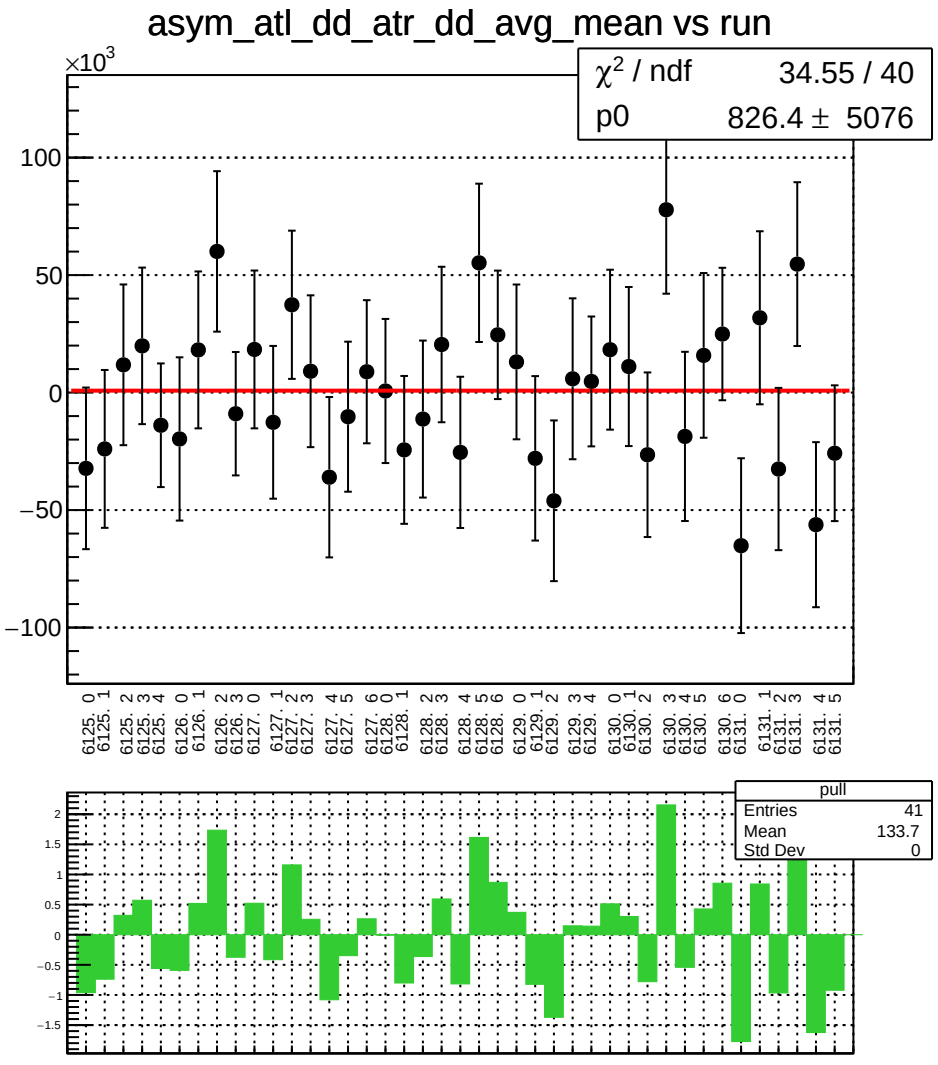
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ^2 / ndf 34.55 / 40
p0 826.4 ± 5076
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
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6128. 2
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6129. 1
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6129. 4
6130. 0
6130. 1
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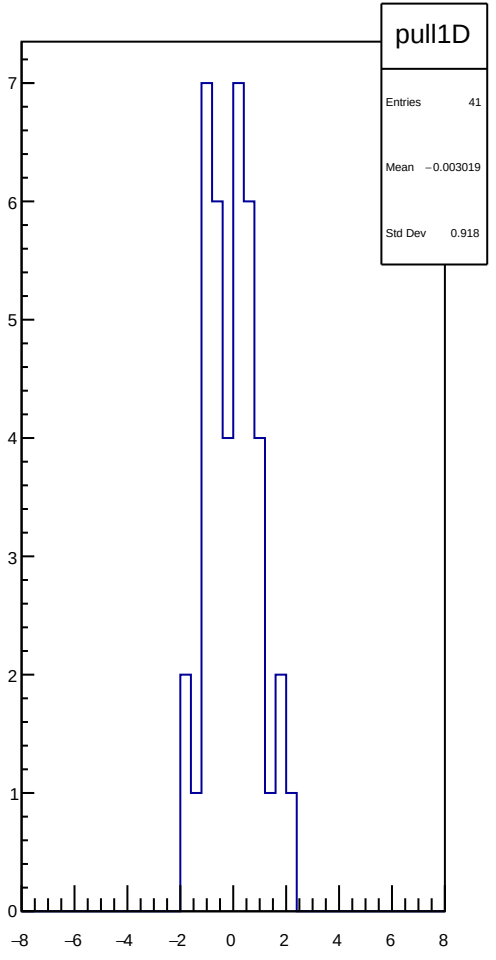
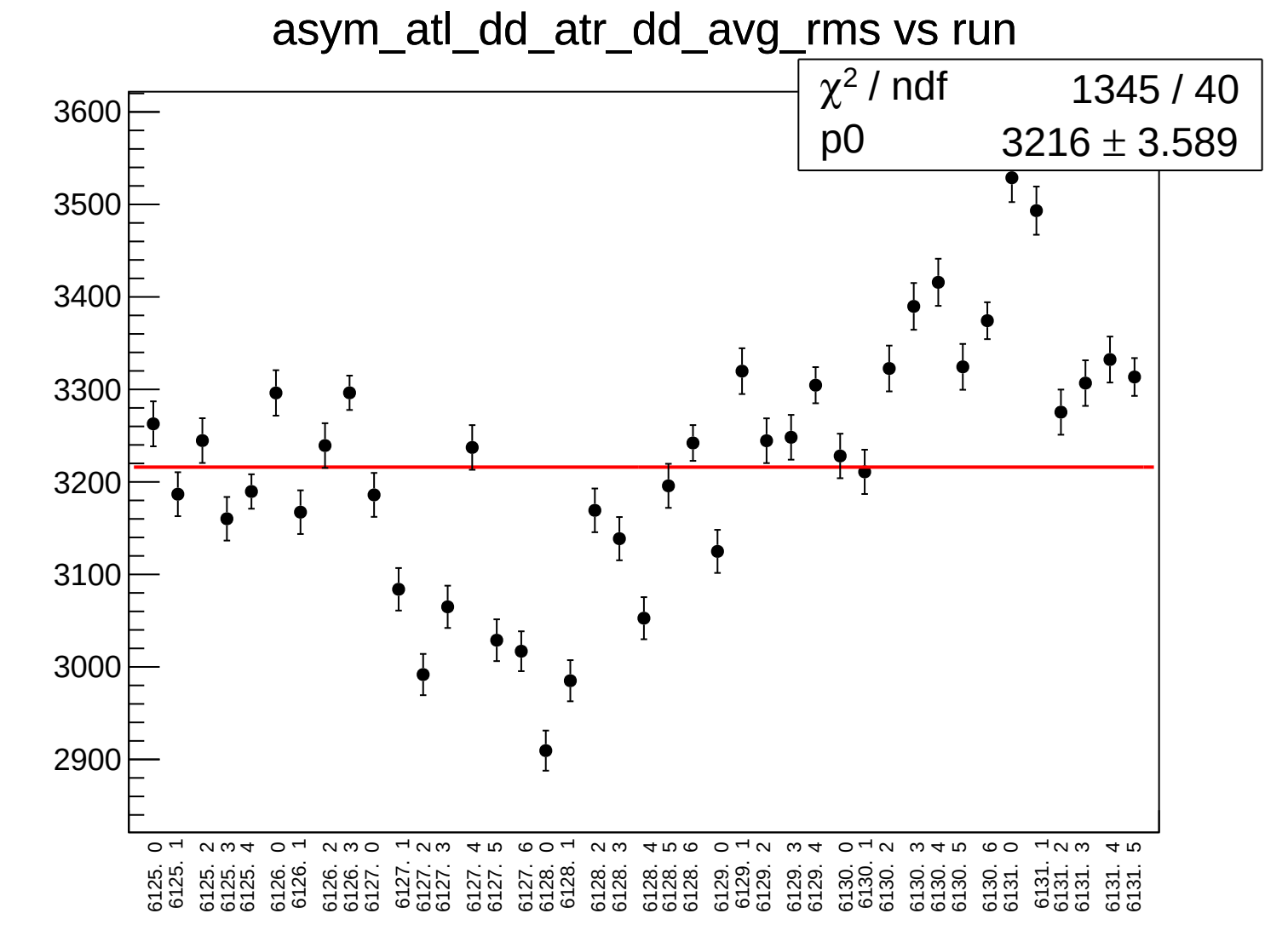
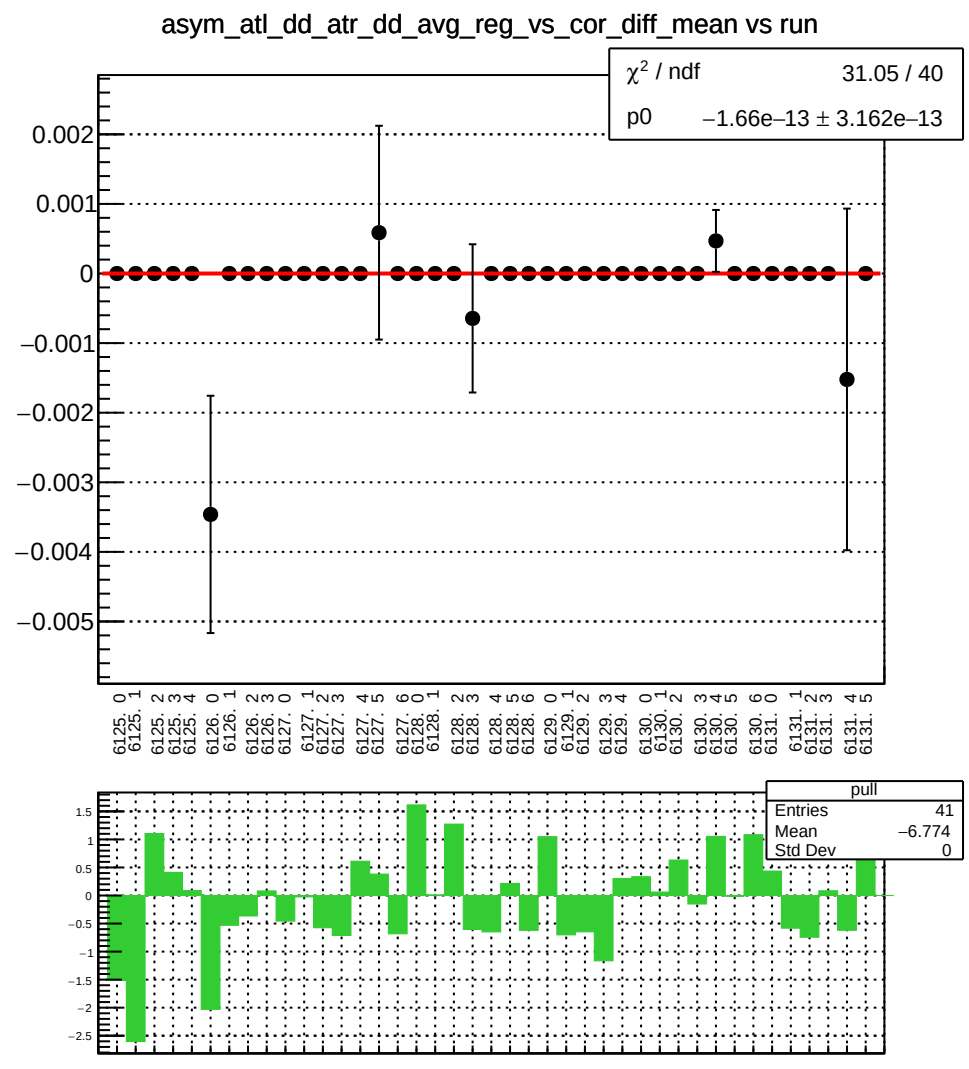
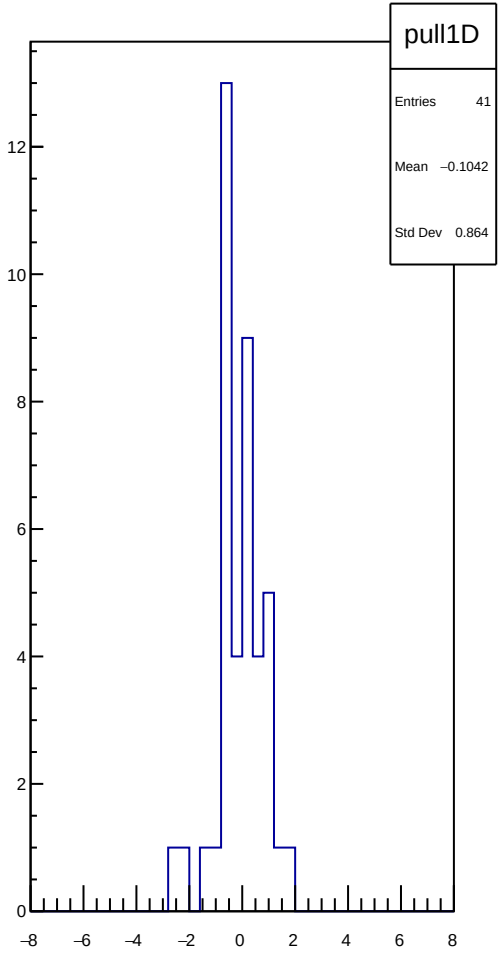
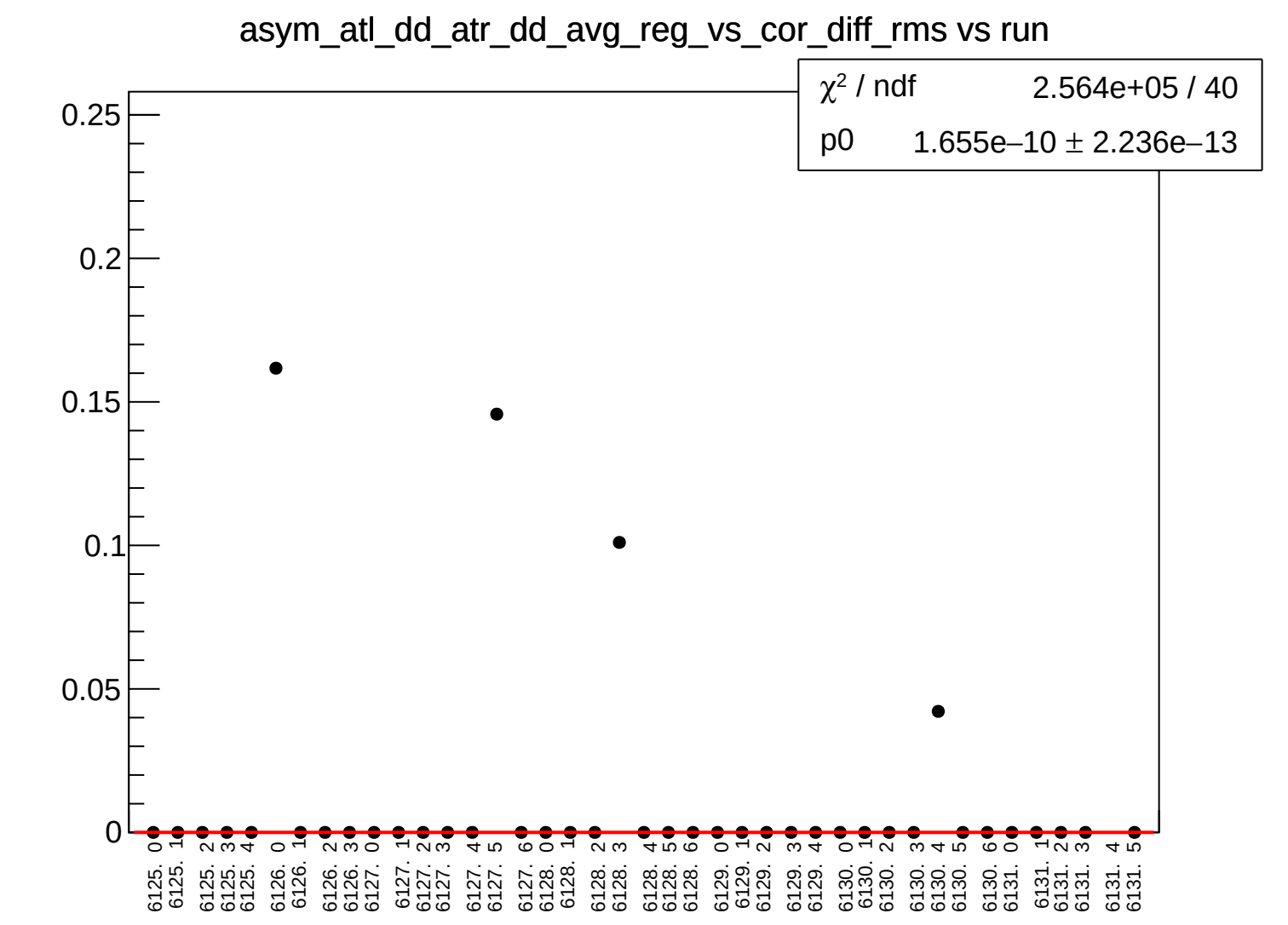
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 133.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

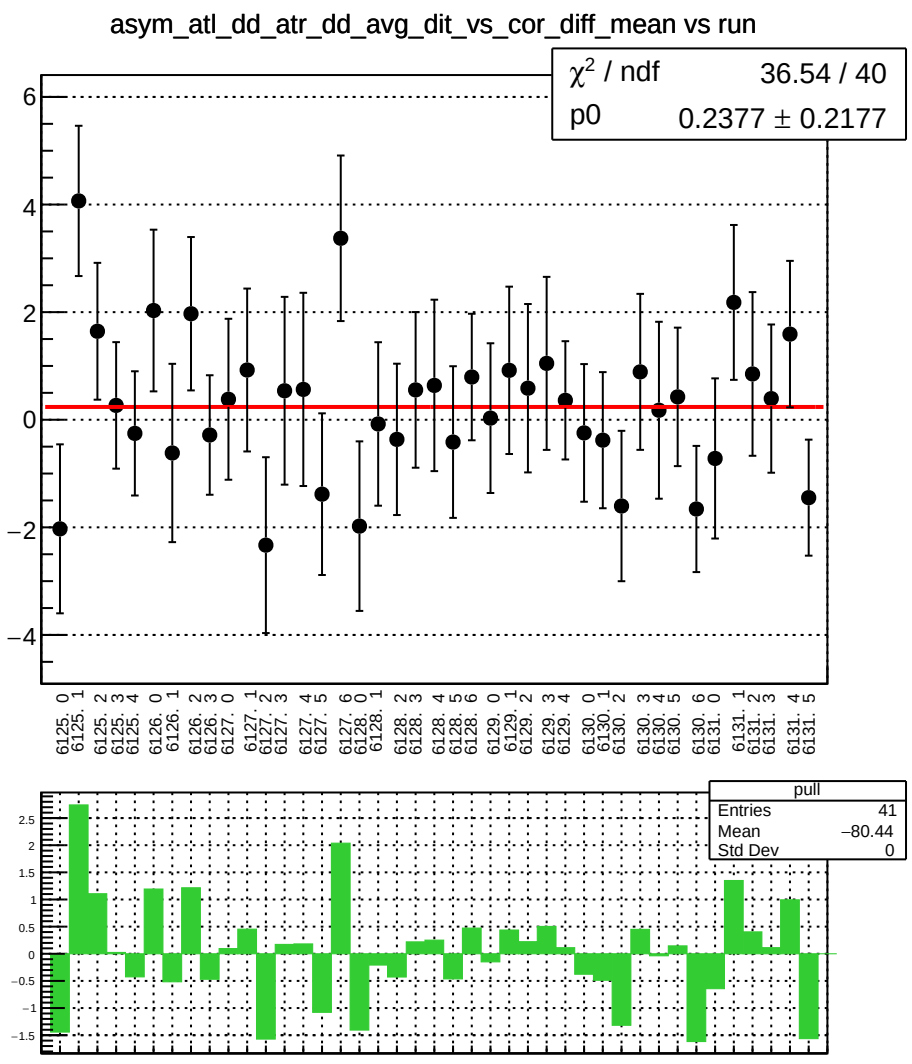

pull1D
Entries 41
Mean −0.003019
Std Dev 0.918
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

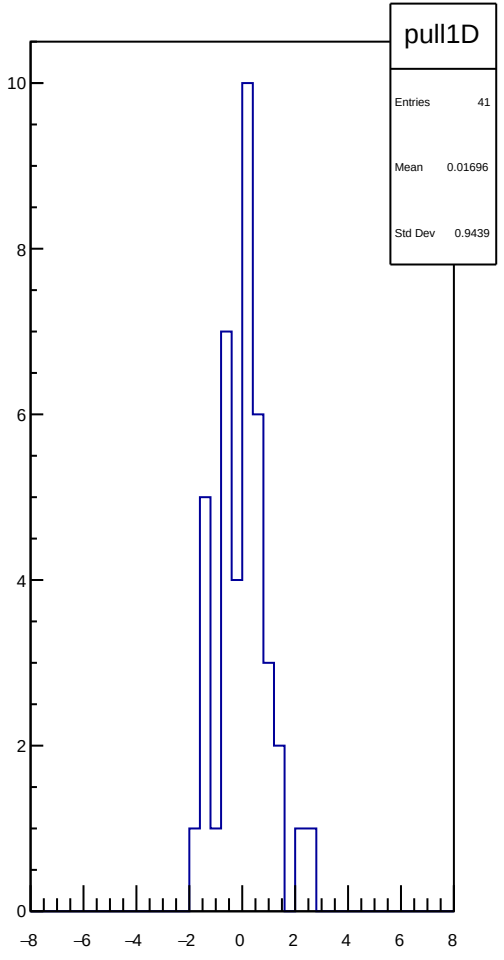

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1345 / 40
p0 3216 ± 3.589
3600
3500
3400
3300
3200
3100
3000
2900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

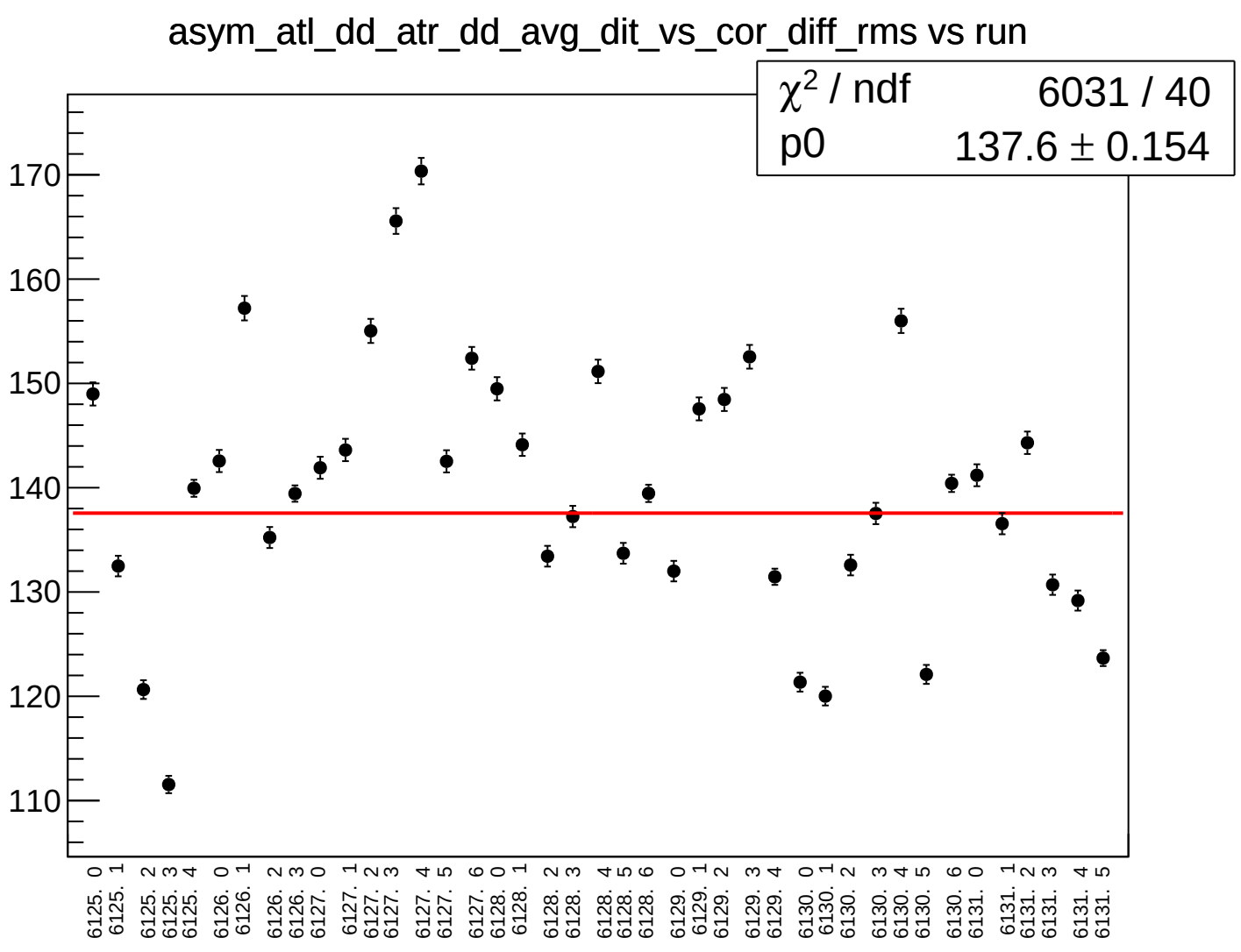

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 31.05 / 40
p0 −1.66e−13 ± 3.162e−13
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
−0.005
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −6.774
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

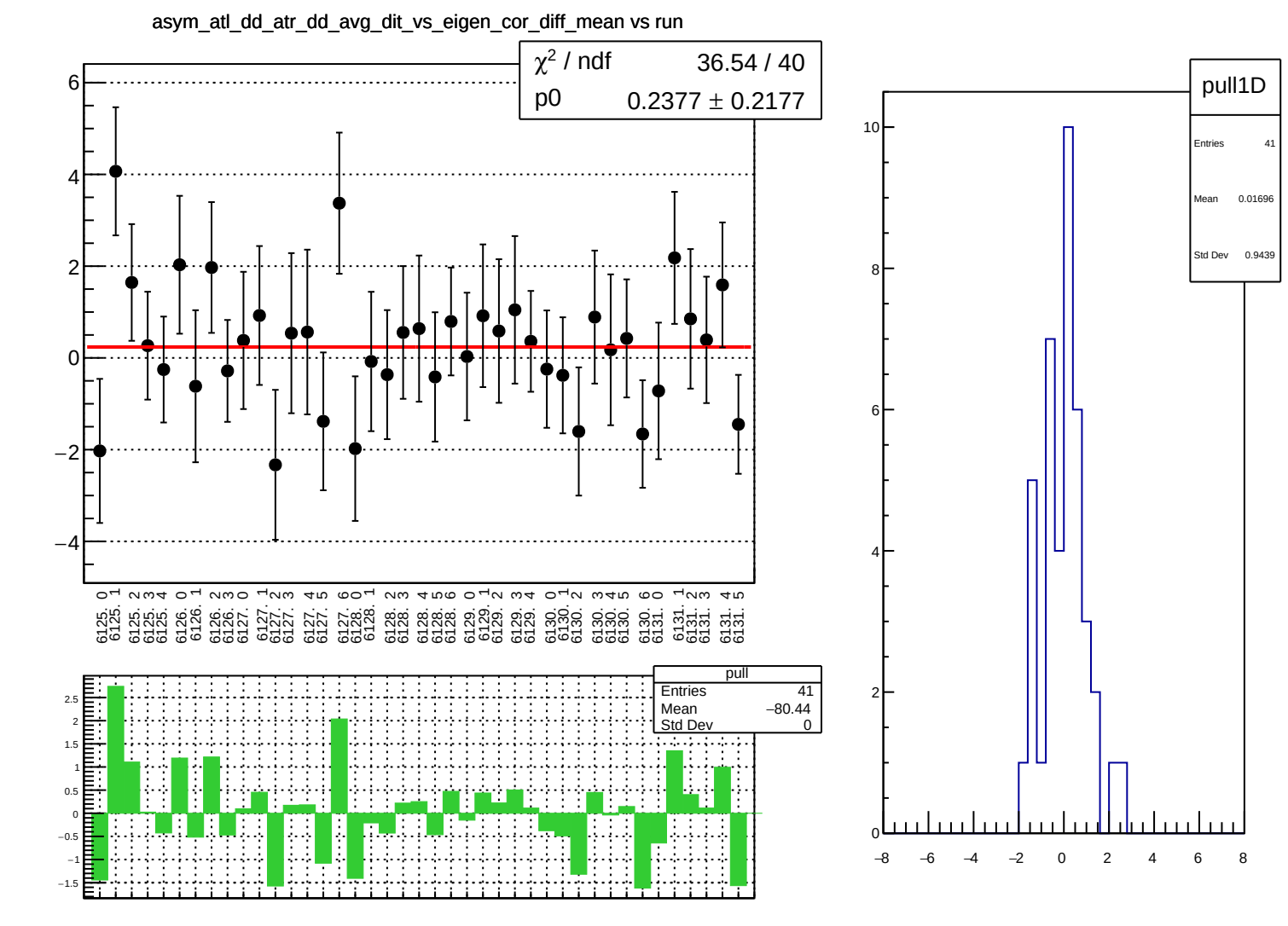

pull1D
Entries 41
Mean −0.1042
Std Dev 0.864
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

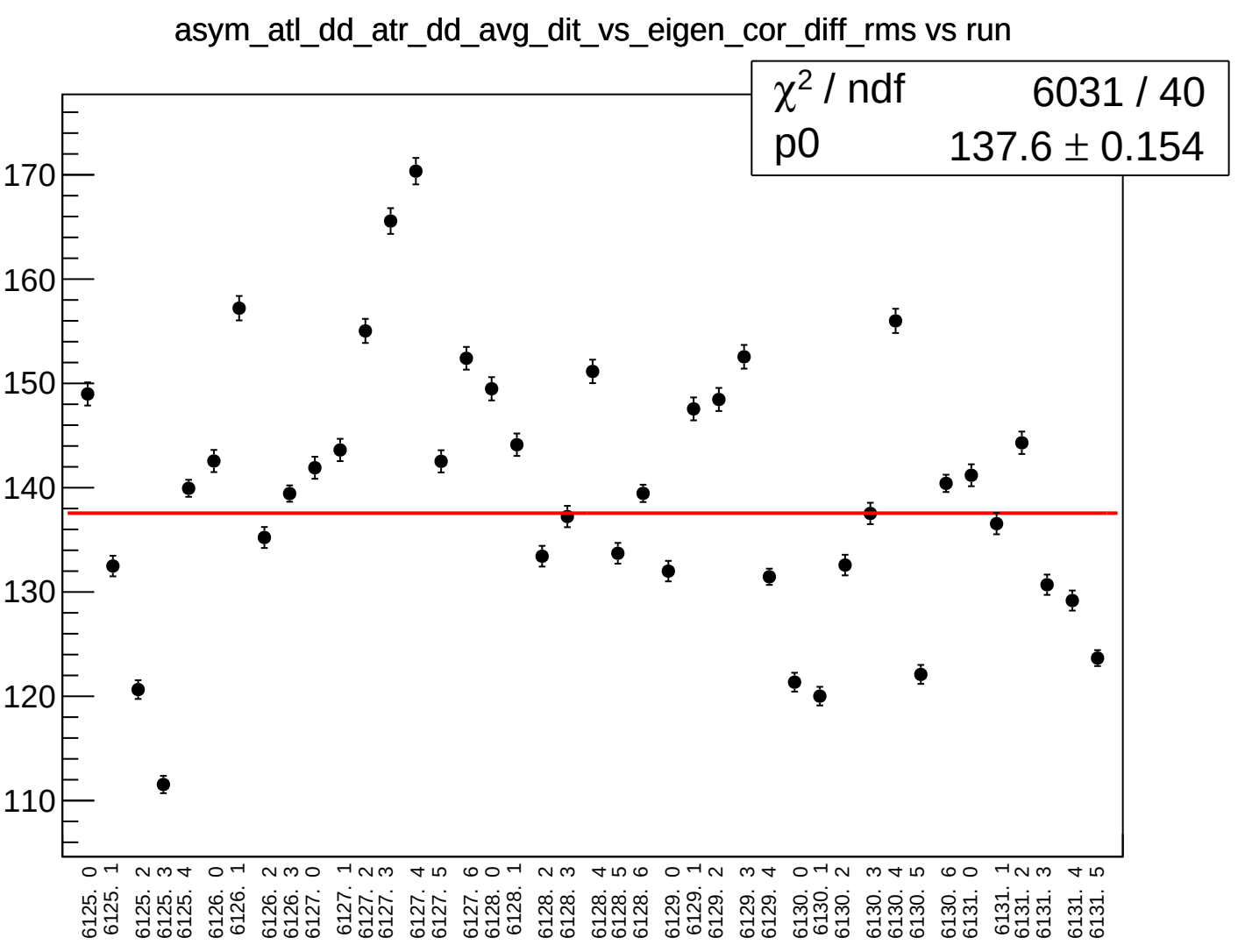

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.564e+05 / 40
p0 1.655e−10 ± 2.236e−13
0.25
0.2
0.15
0.1
0.05
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

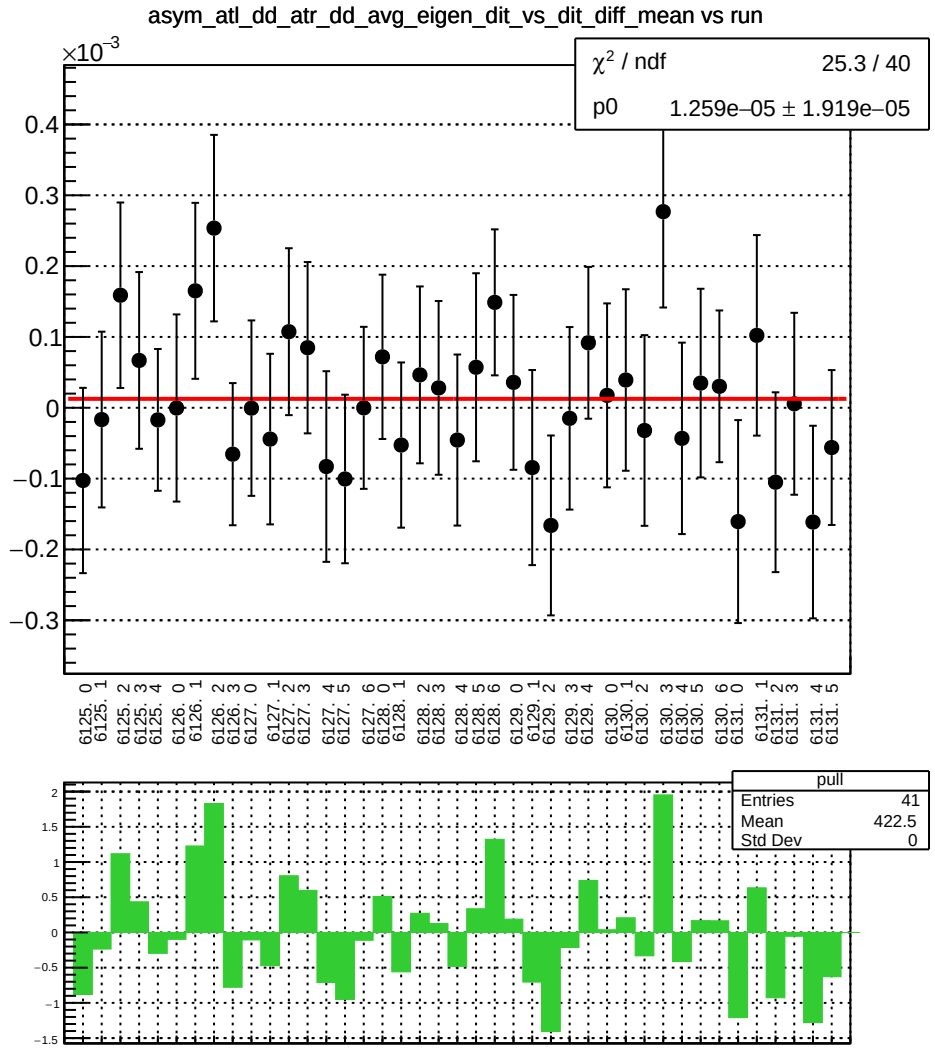

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 36.54 / 40
p0 0.2377 ± 0.2177
pull
Entries 41
Mean −80.44
Std Dev 0

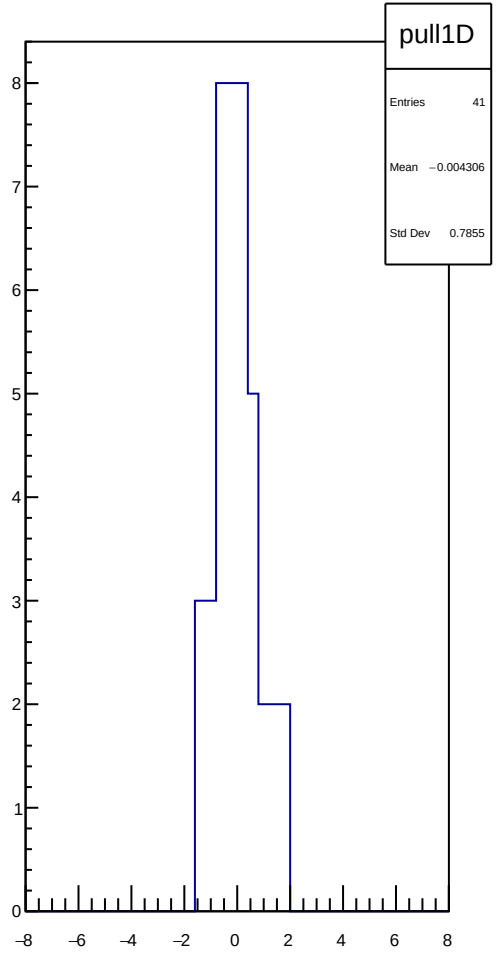

pull1D
Entries 41
Mean 0.01696
Std Dev 0.9439

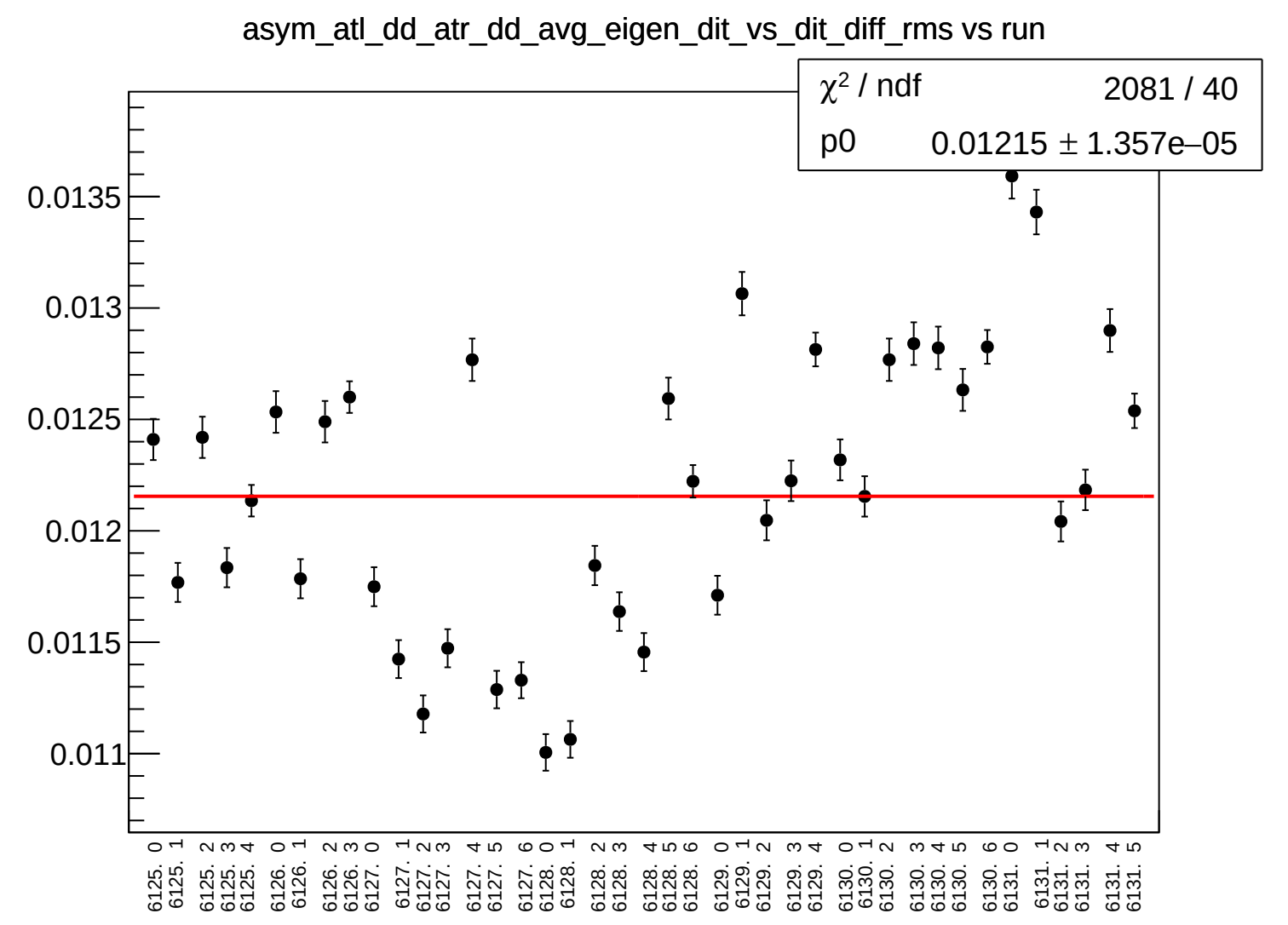

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6031 / 40
p0 137.6 ± 0.154
170
160
150
140
130
120
110
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

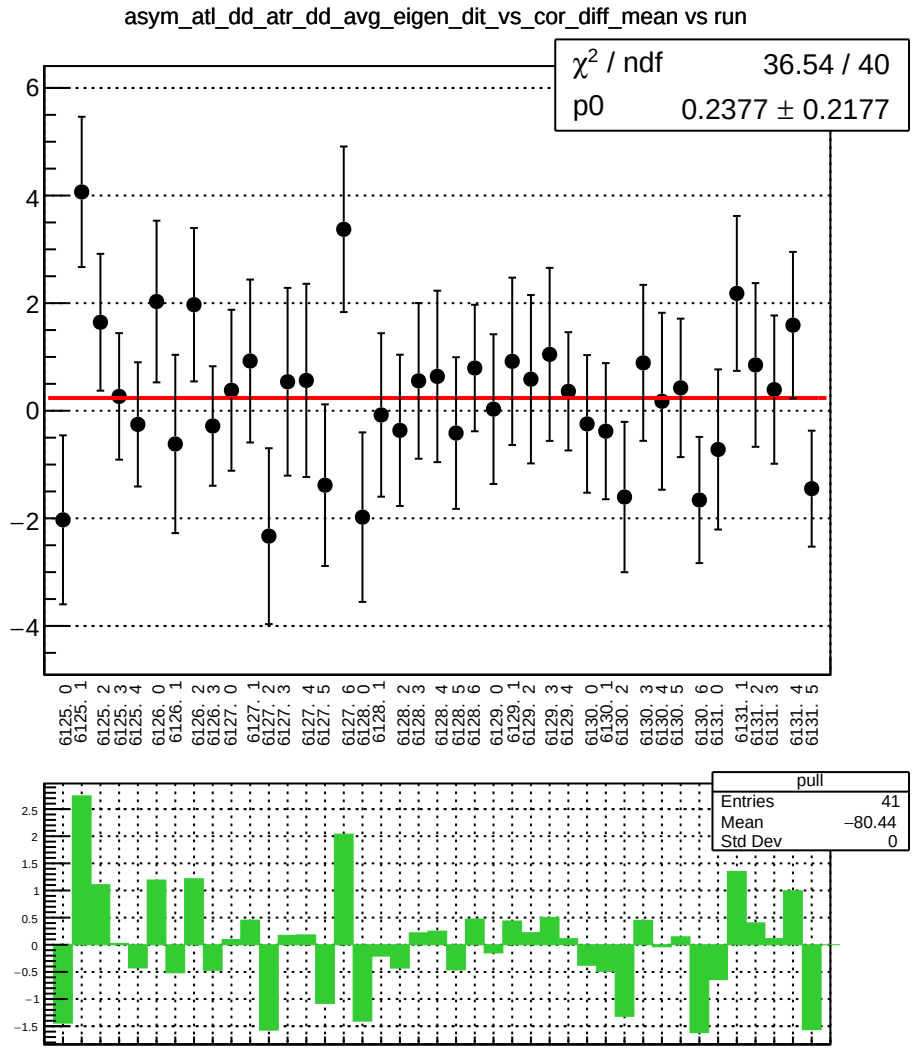

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.54 / 40
p0 0.2377 ± 0.2177
pull
Entries 41
Mean −80.44
Std Dev 0
pull1D
Entries 41
Mean 0.01696
Std Dev 0.9439

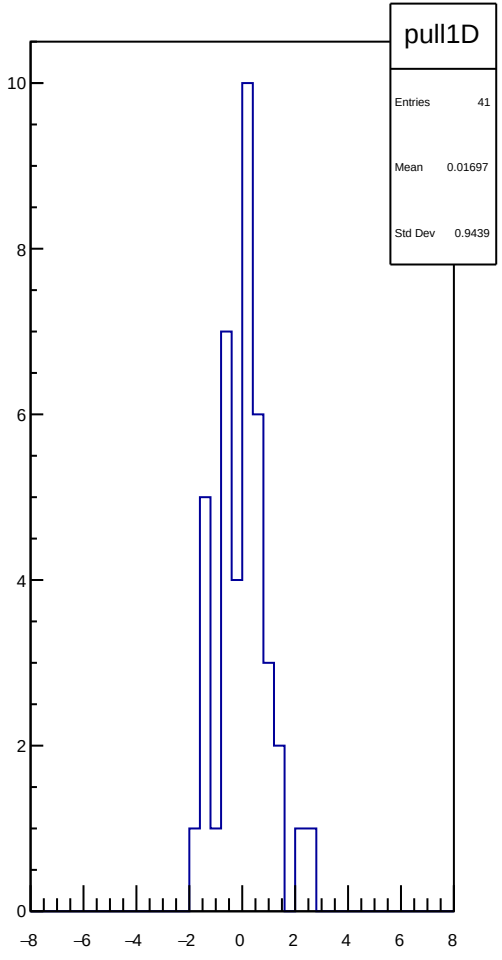

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6031 / 40
p0 137.6 ± 0.154
170
160
150
140
130
120
110
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

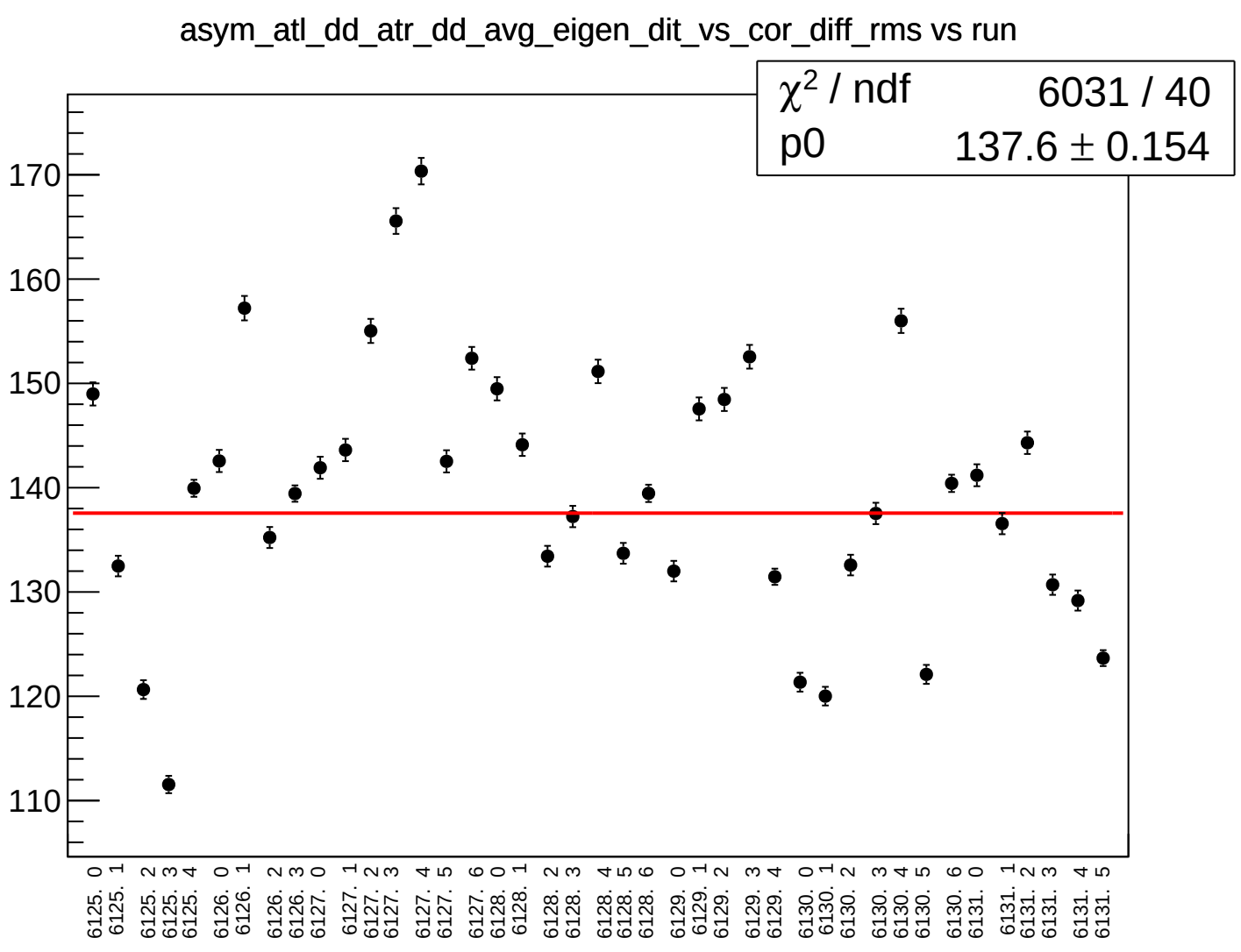

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 25.3 / 40
p0 1.259e−05 ± 1.919e−05
pull
Entries 41
Mean 422.5
Std Dev 0

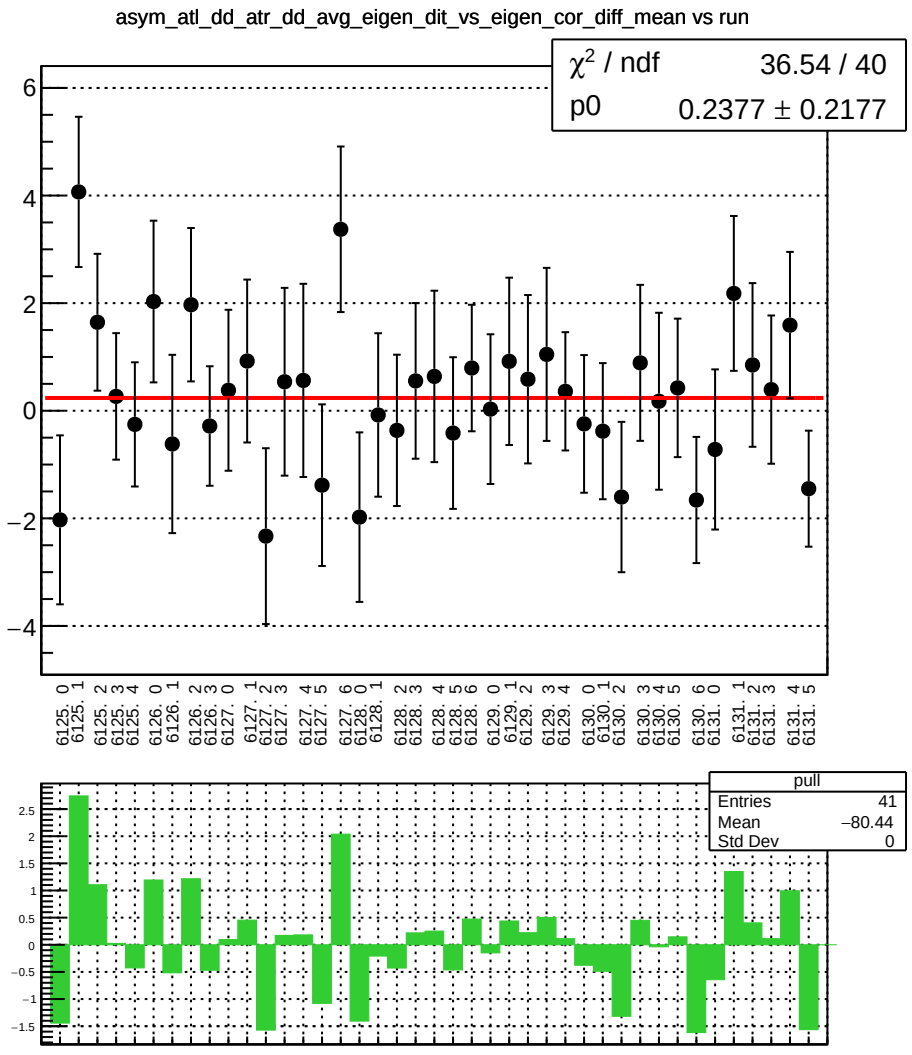

pull1D
Entries 41
Mean −0.004306
Std Dev 0.7855

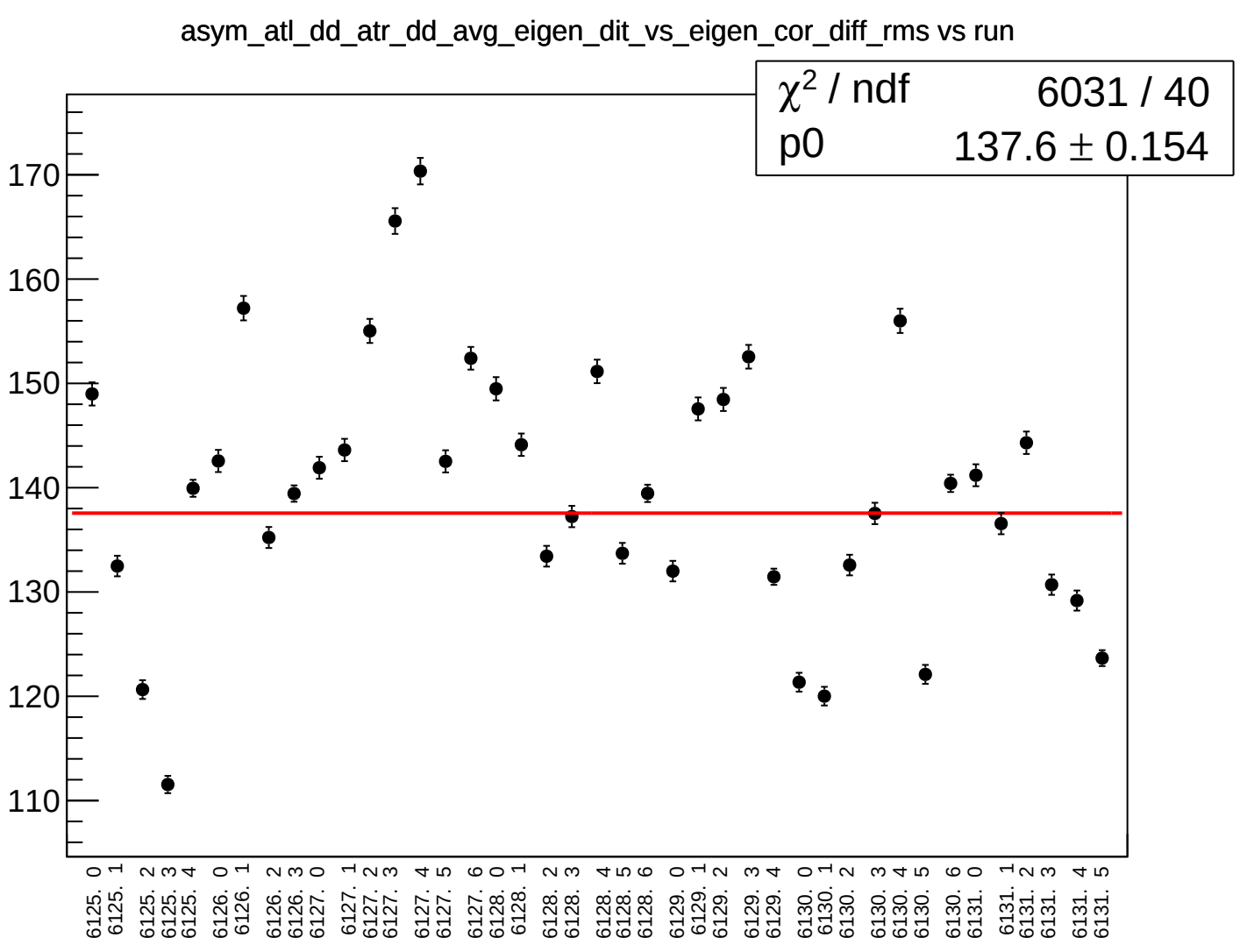

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2081 / 40
p0 0.01215 ± 1.357e−05
0.0135
0.013
0.0125
0.012
0.0115
0.011
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

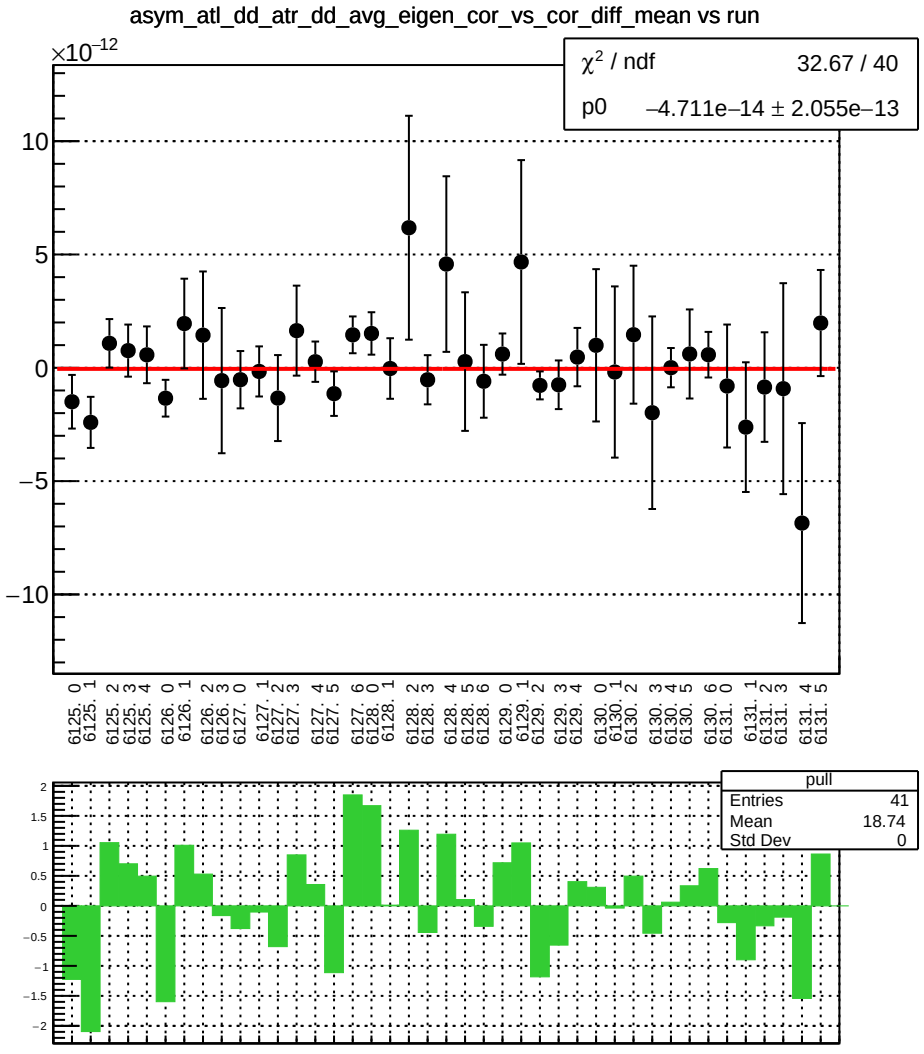

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.54 / 40
p0 0.2377 ± 0.2177
pull
Entries 41
Mean −80.44
Std Dev 0

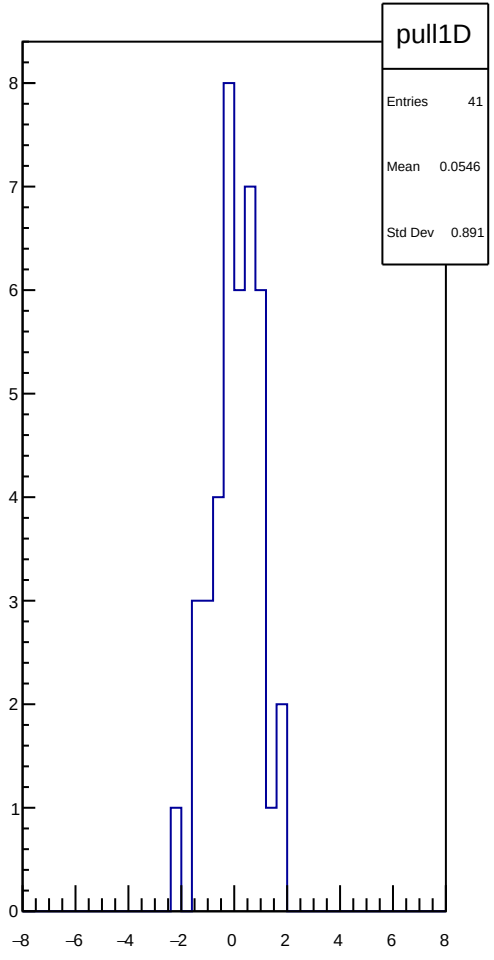

pull1D
Entries 41
Mean 0.01697
Std Dev 0.9439

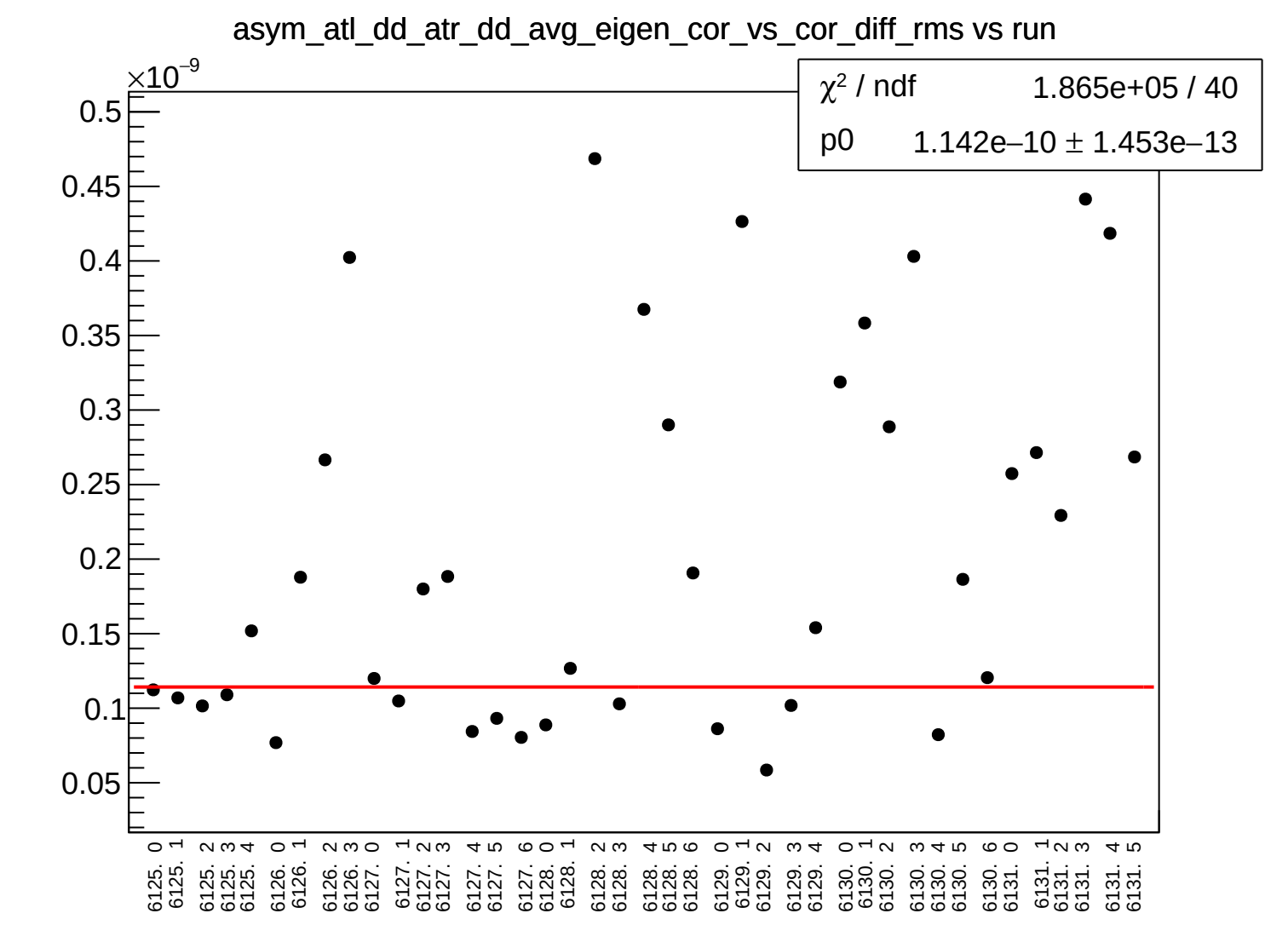

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6031 / 40
p0 137.6 ± 0.154
170
160
150
140
130
120
110
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

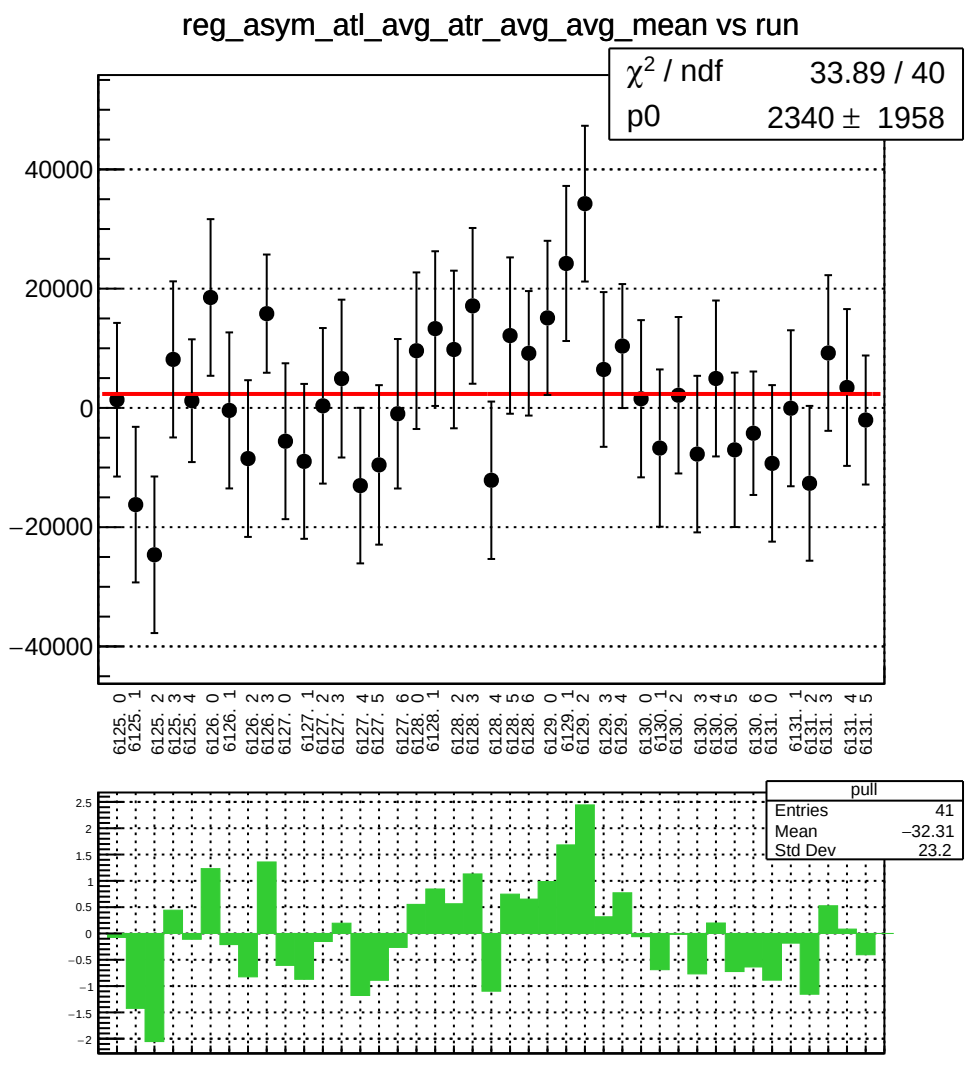

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.54 / 40
p0 0.2377 ± 0.2177
pull
Entries 41
Mean −80.44
Std Dev 0
pull1D
Entries 41
Mean 0.01697
Std Dev 0.9439

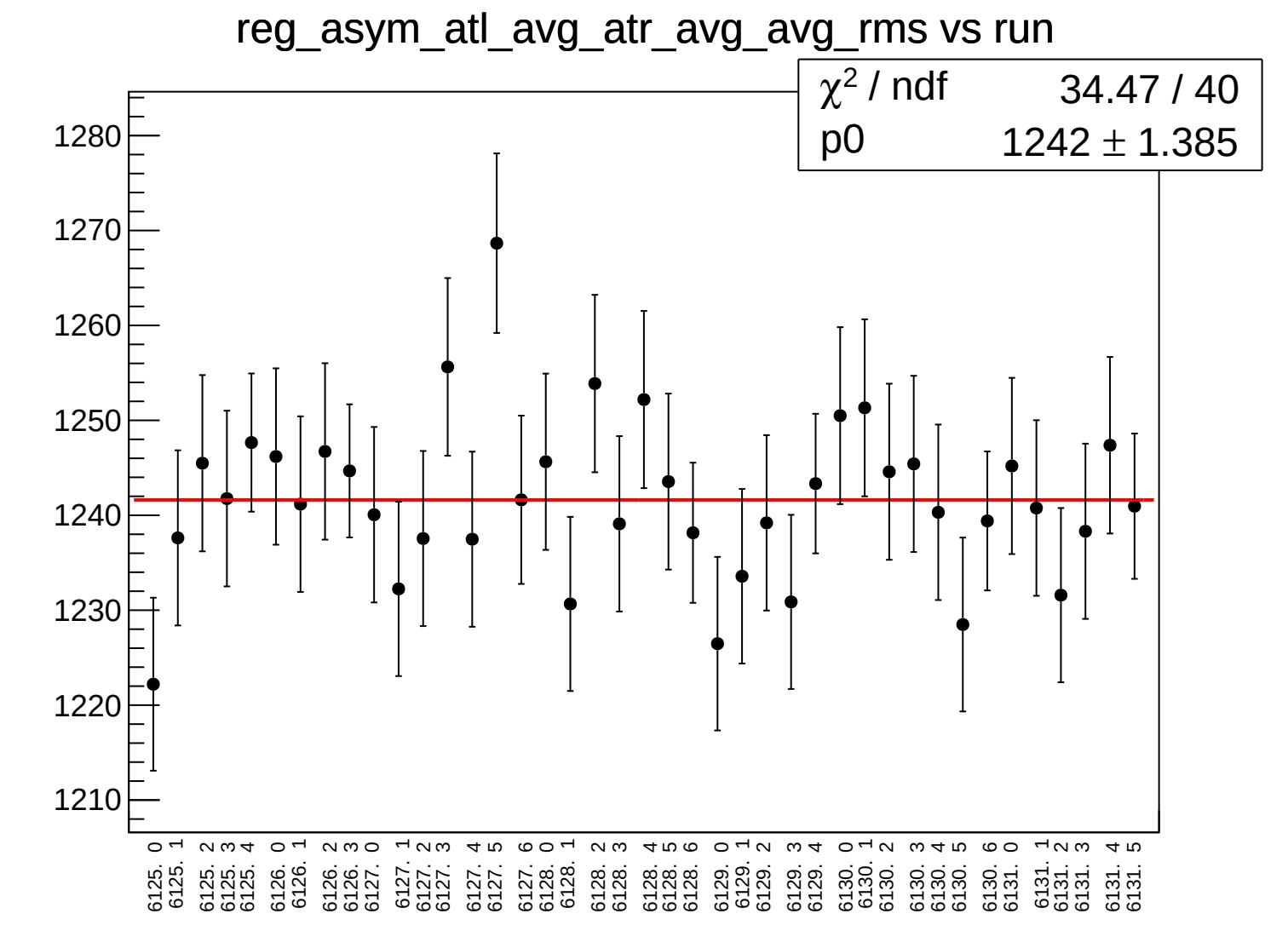

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6031 / 40
p0 137.6 ± 0.154
170
160
150
140
130
120
110
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

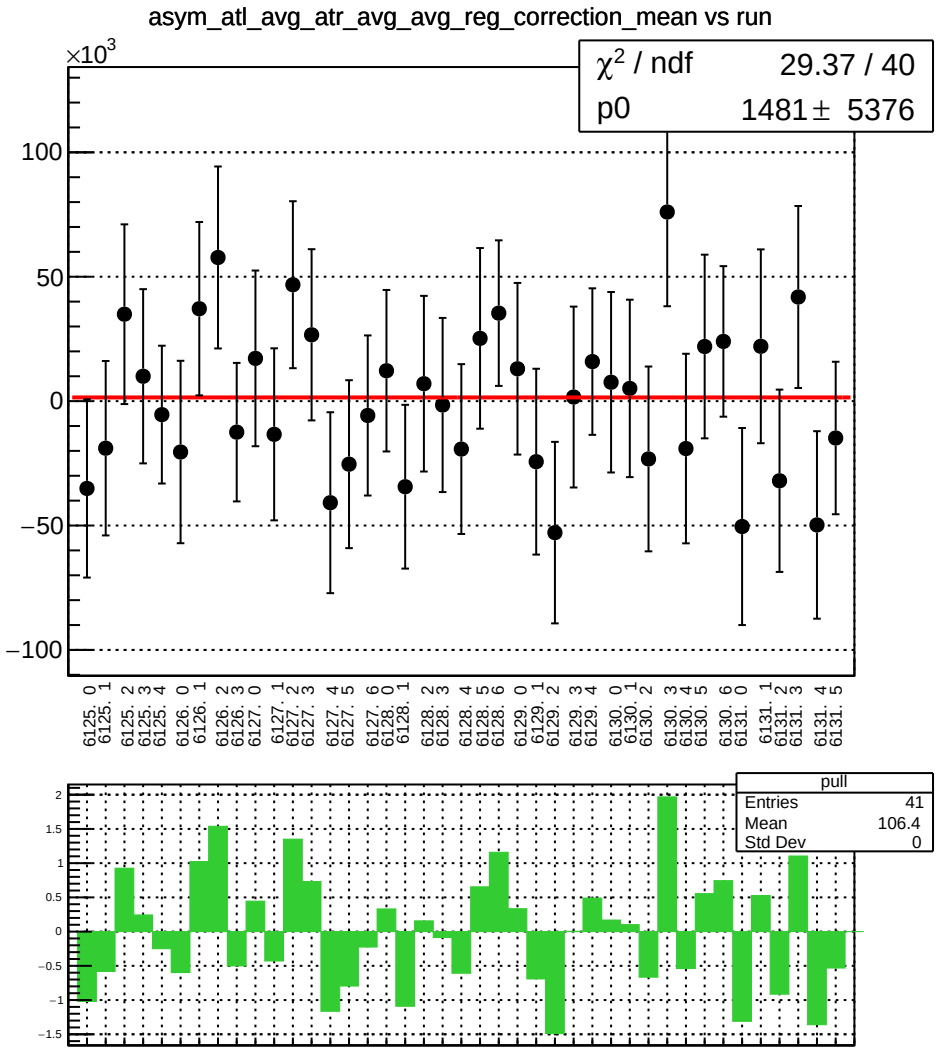

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 32.67 / 40
p0 −4.711e−14 ± 2.055e−13
10
5
0
−5
−10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 18.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

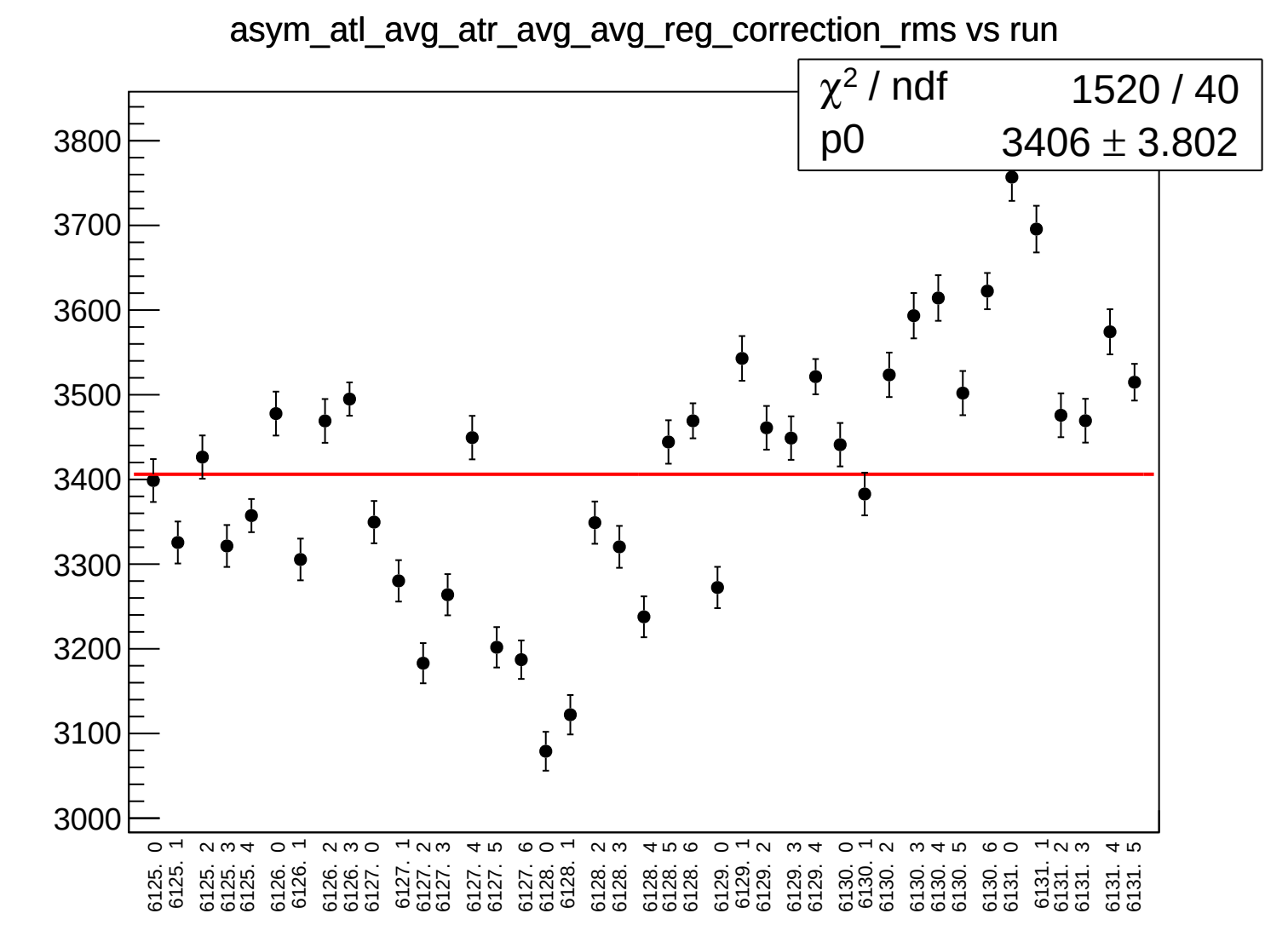

pull1D
Entries 41
Mean 0.0546
Std Dev 0.891
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.865e+05 / 40
p0 1.142e−10 ± 1.453e−13
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 33.89 / 40
p0 2340 ± 1958
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −32.31
Std Dev 23.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.01333
Std Dev 0.9091
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 34.47 / 40
p0 1242 ± 1.385
1280
1270
1260
1250
1240
1230
1220
1210
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 29.37 / 40
p0 1481 ± 5376
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 106.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.007172
Std Dev 0.8463
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 1520 / 40
p0 3406 ± 3.802
3800
3700
3600
3500
3400
3300
3200
3100
3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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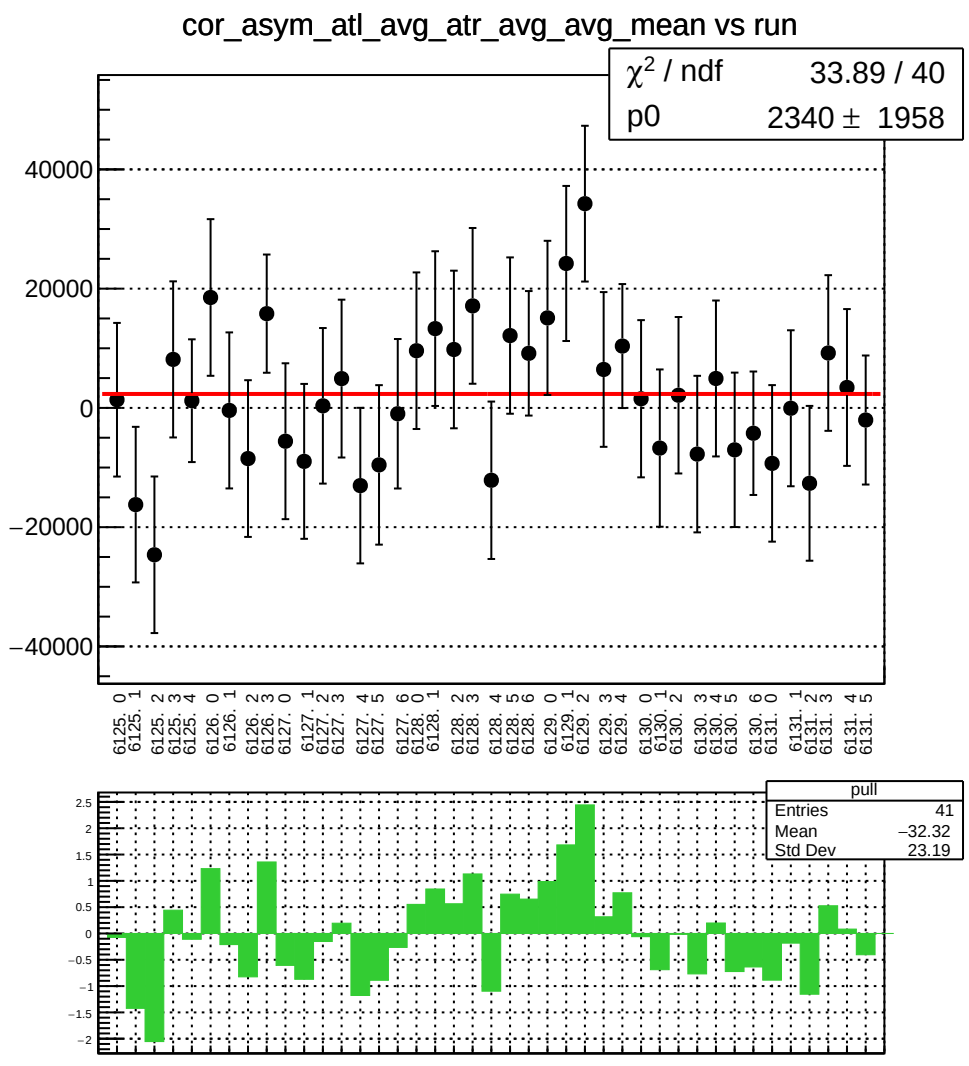
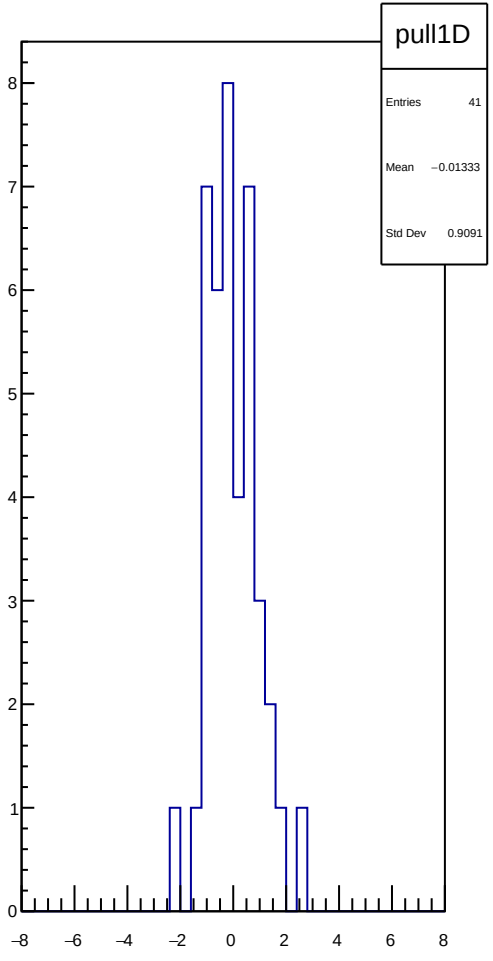
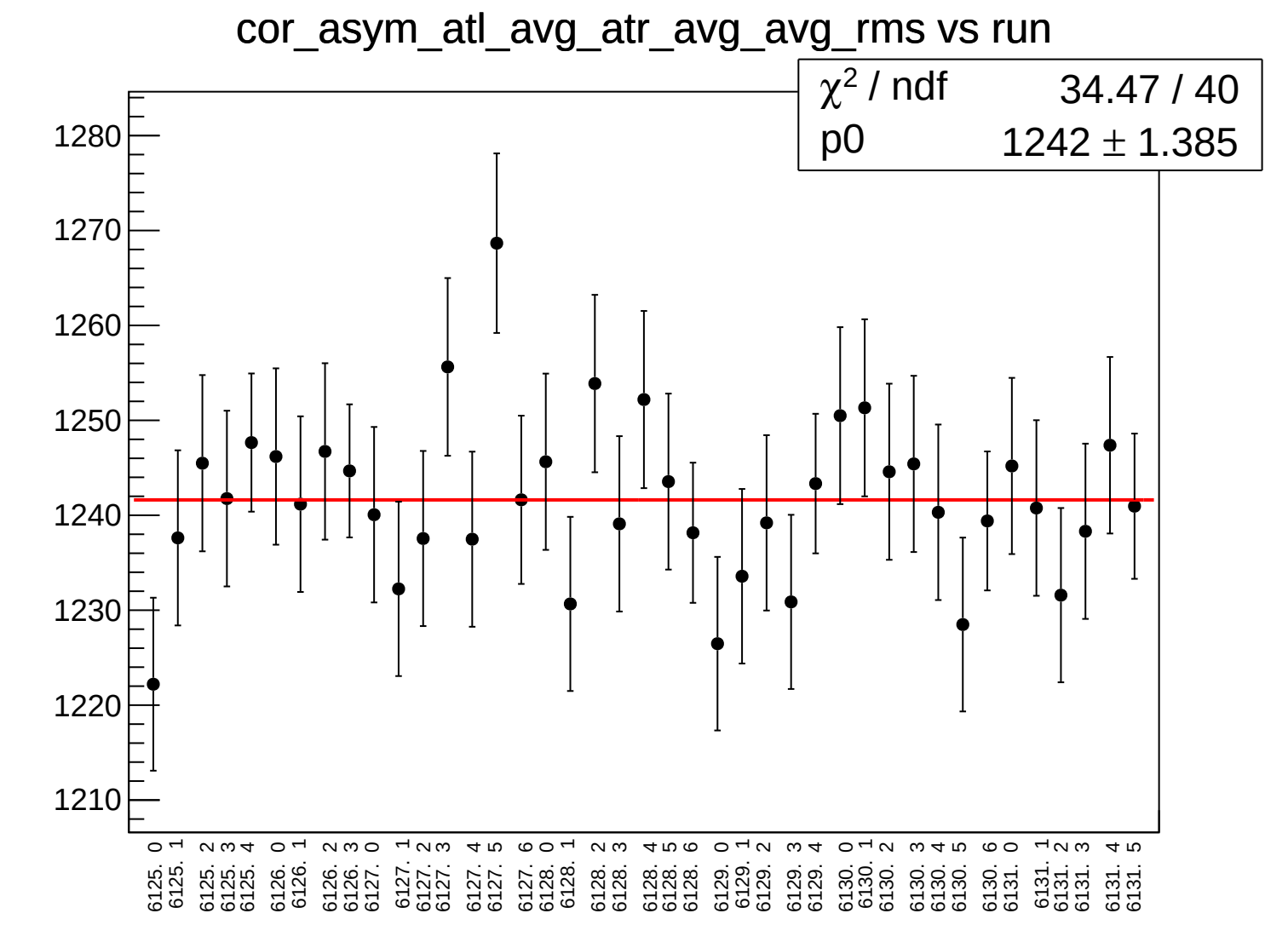
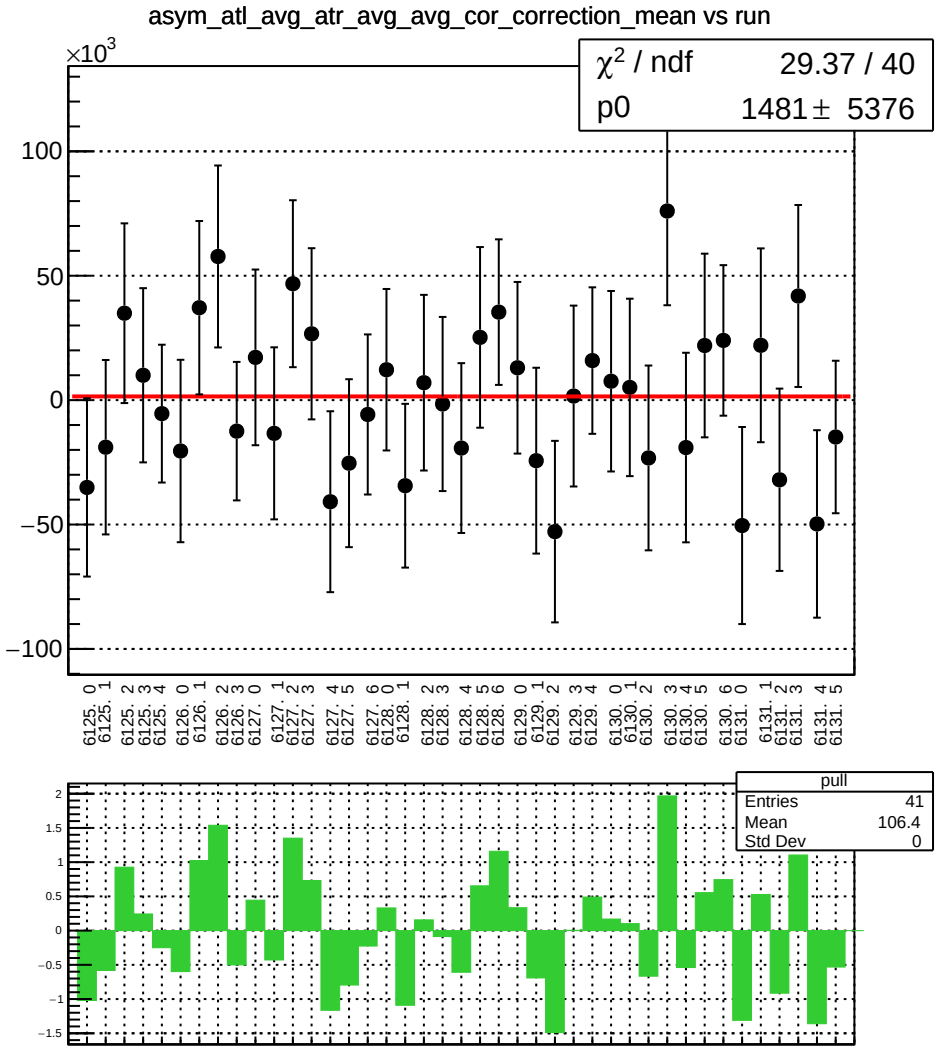
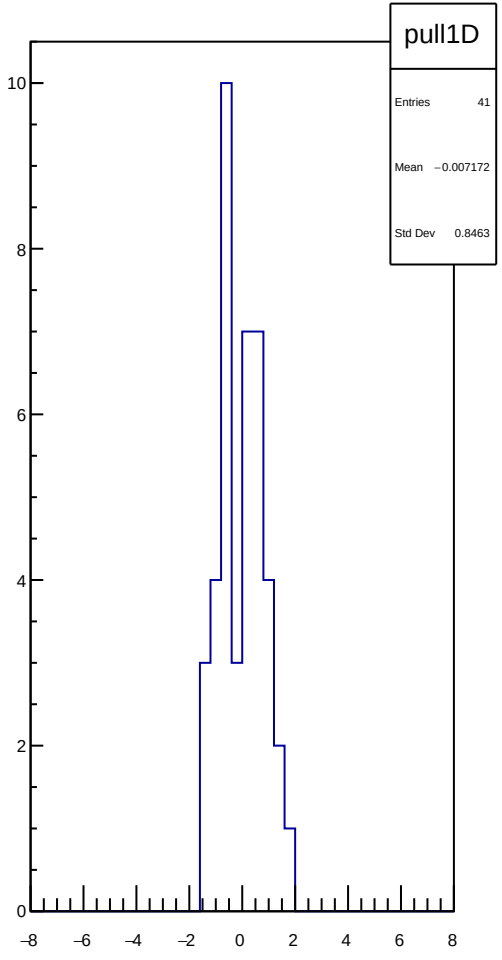
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

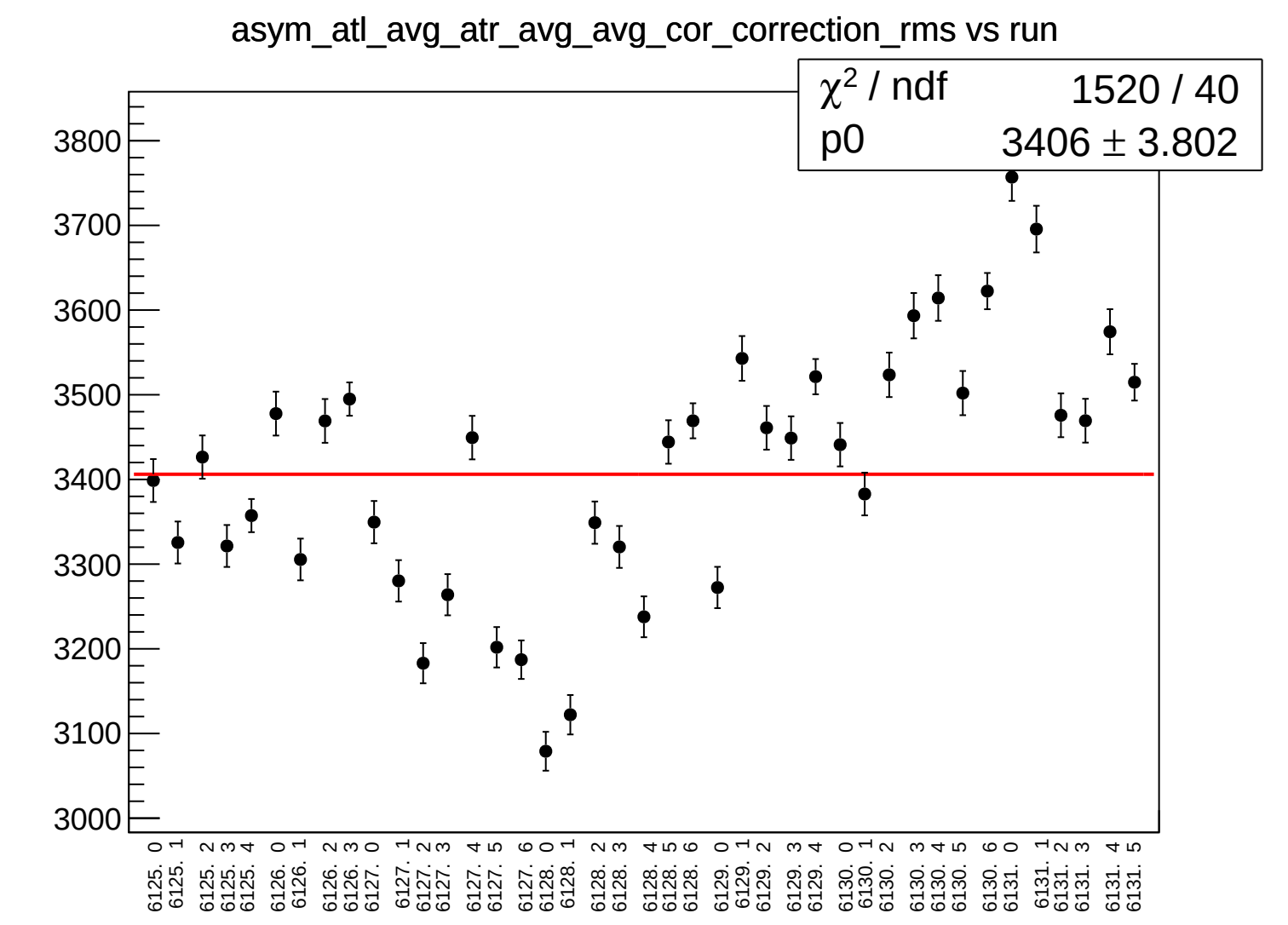

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 33.89 / 40
p0 2340 ± 1958
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −32.32
Std Dev 23.19
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

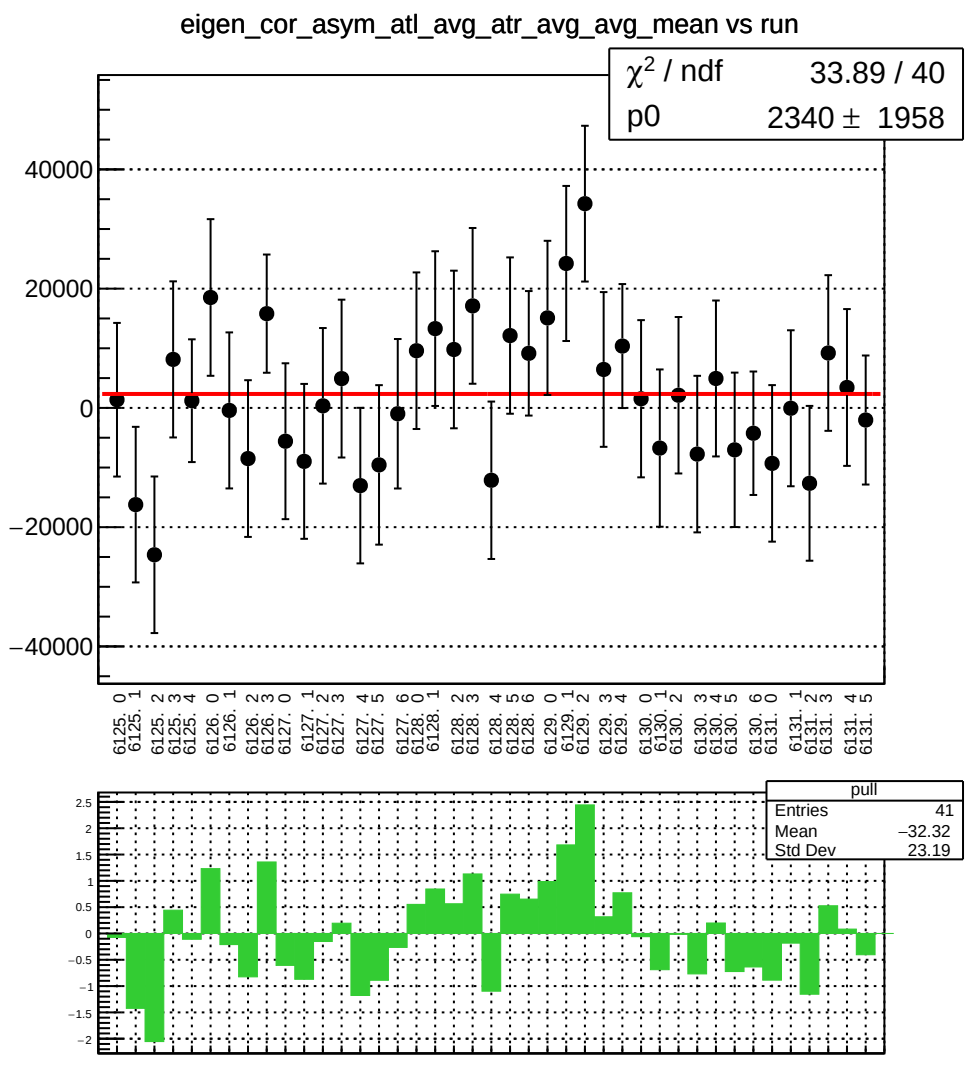

pull1D
Entries 41
Mean −0.01333
Std Dev 0.9091
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

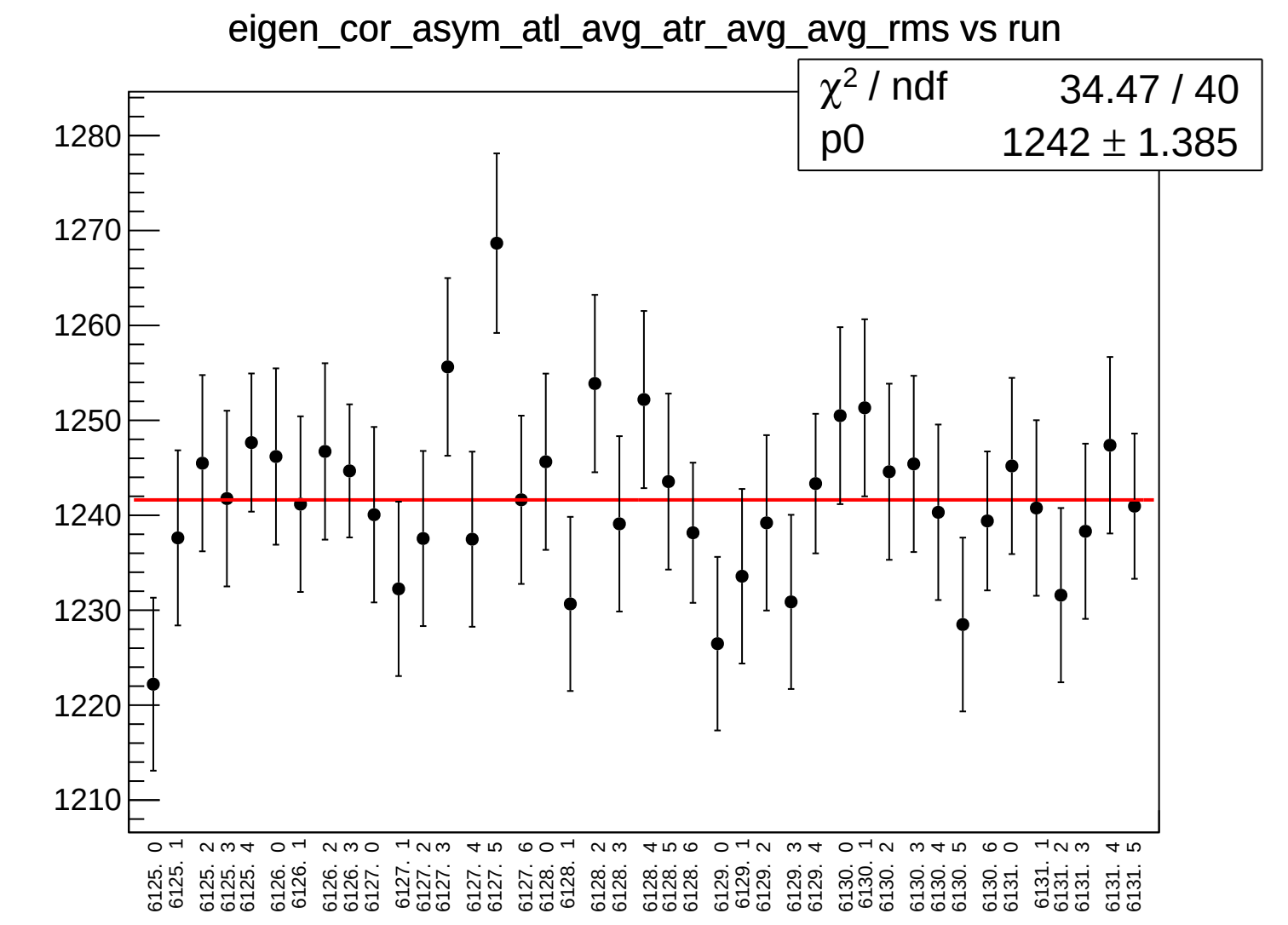

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 34.47 / 40
p0 1242 ± 1.385
1280
1270
1260
1250
1240
1230
1220
1210
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 29.37 / 40
p0 1481 ± 5376
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 106.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.007172
Std Dev 0.8463
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 1520 / 40
p0 3406 ± 3.802
3800
3700
3600
3500
3400
3300
3200
3100
3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 33.89 / 40
p0 2340 ± 1958
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −32.32
Std Dev 23.19
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.01333
Std Dev 0.9091
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_avg_rms vs run
χ² / ndf 34.47 / 40
p0 1242 ± 1.385
1280
1270
1260
1250
1240
1230
1220
1210
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
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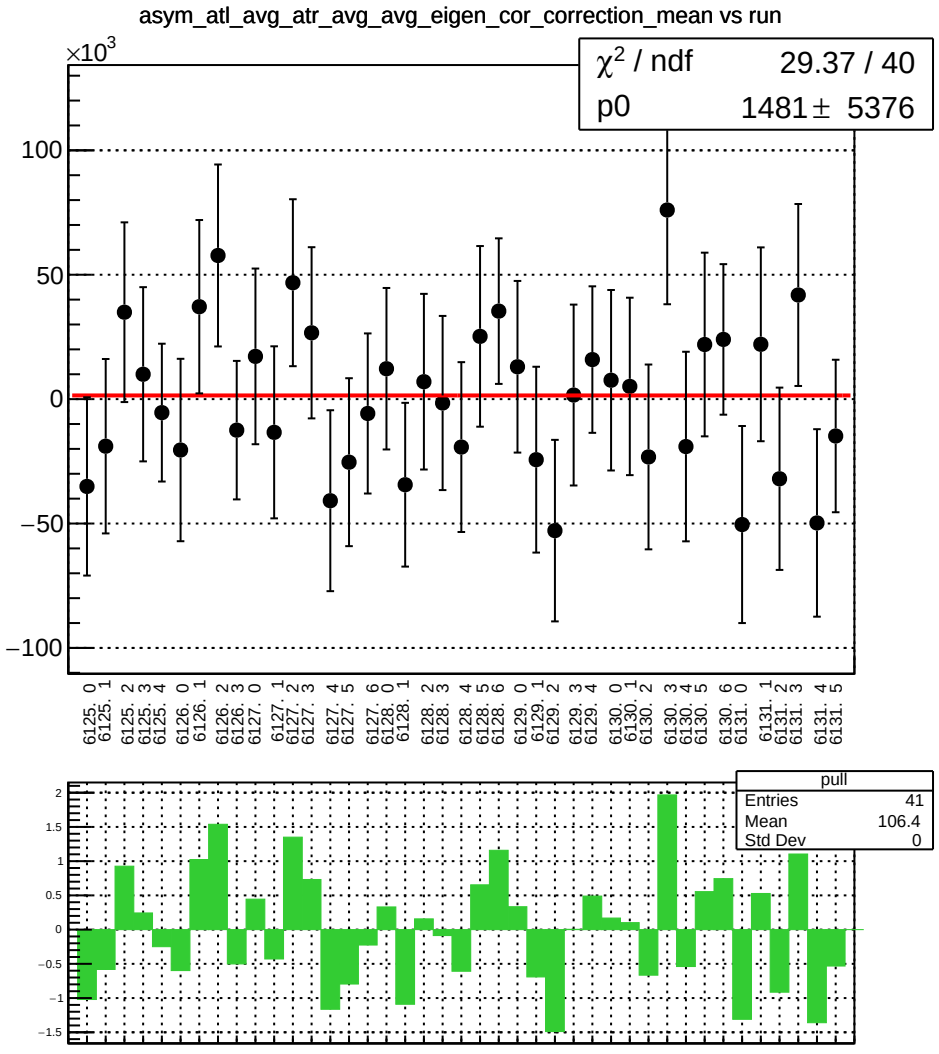
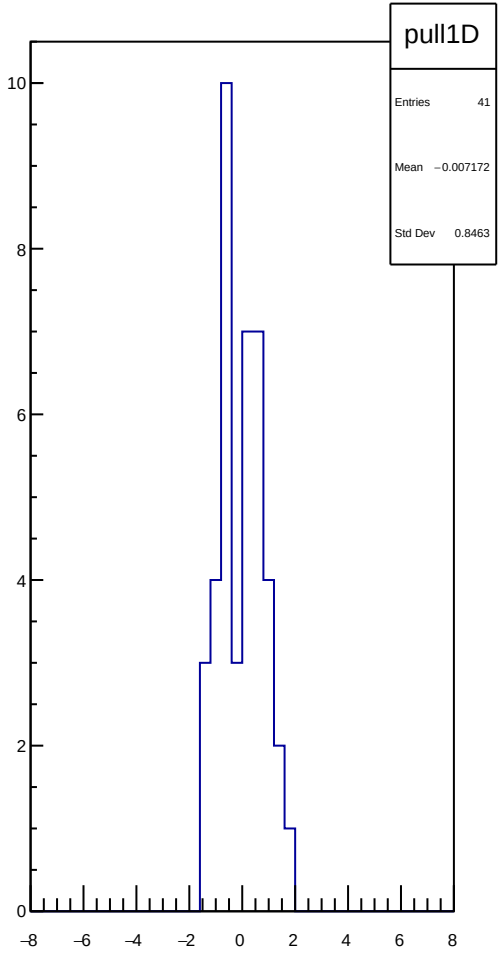
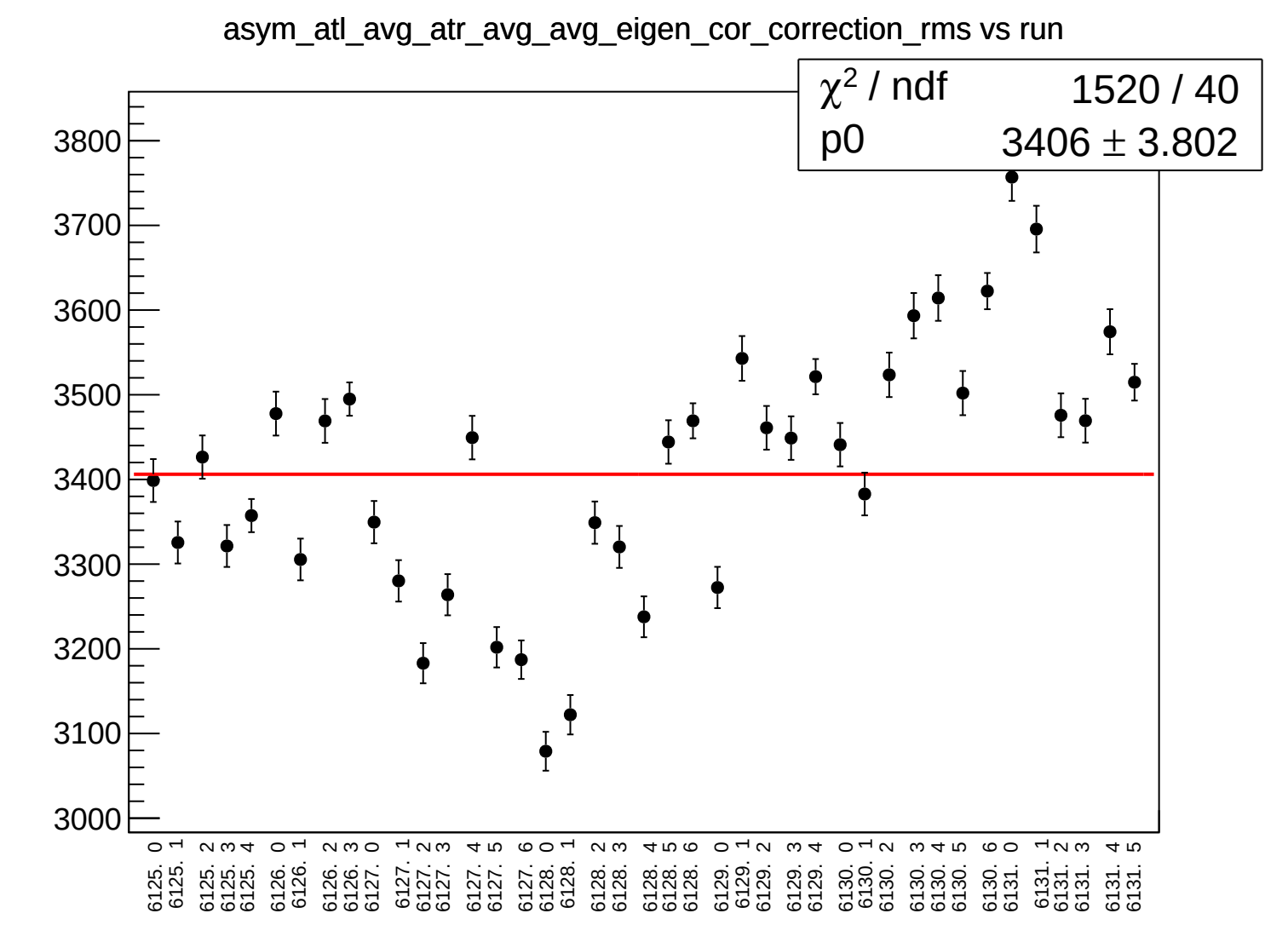
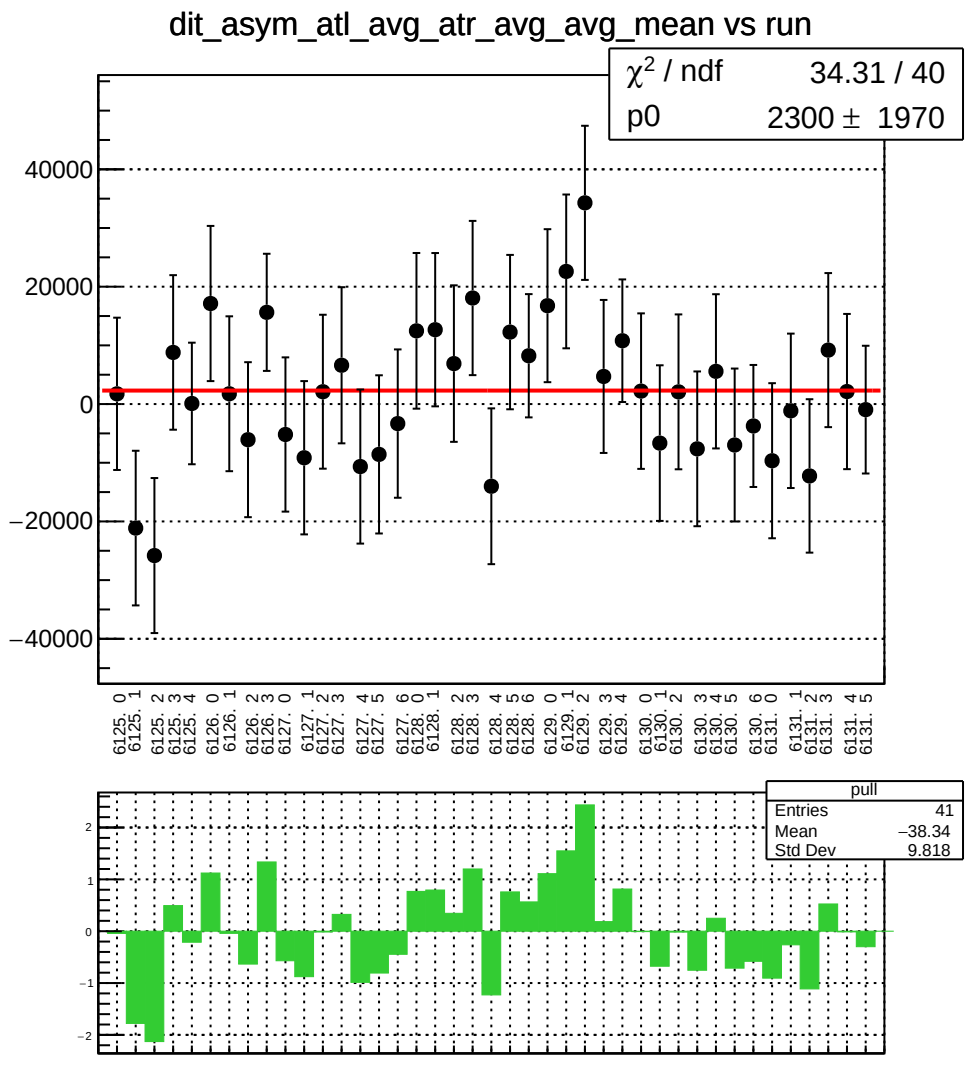
6131. 4
6131. 5


asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 29.37 / 40
p0 1481 ± 5376
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 106.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.007172
Std Dev 0.8463
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 1520 / 40
p0 3406 ± 3.802
3800
3700
3600
3500
3400
3300
3200
3100
3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 34.31 / 40
p0 2300 ± 1970
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
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6128. 4
6128. 5
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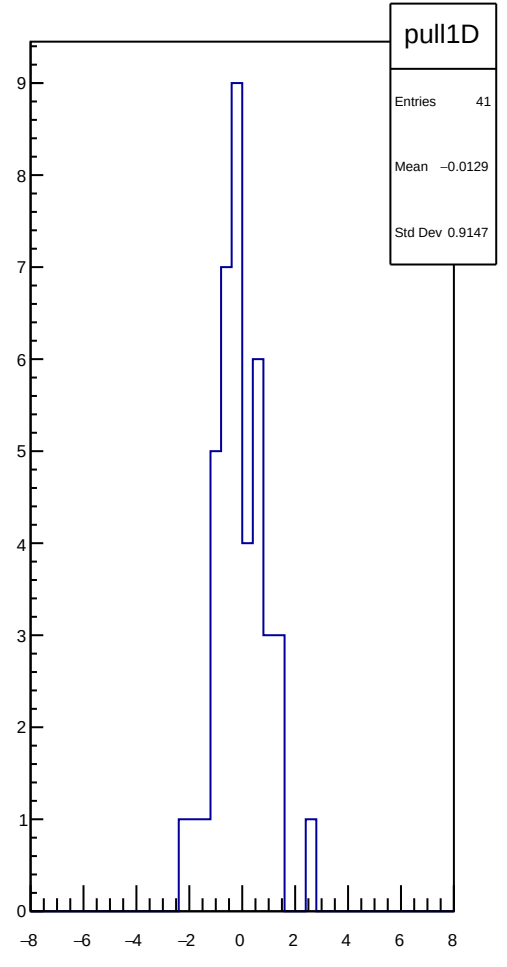
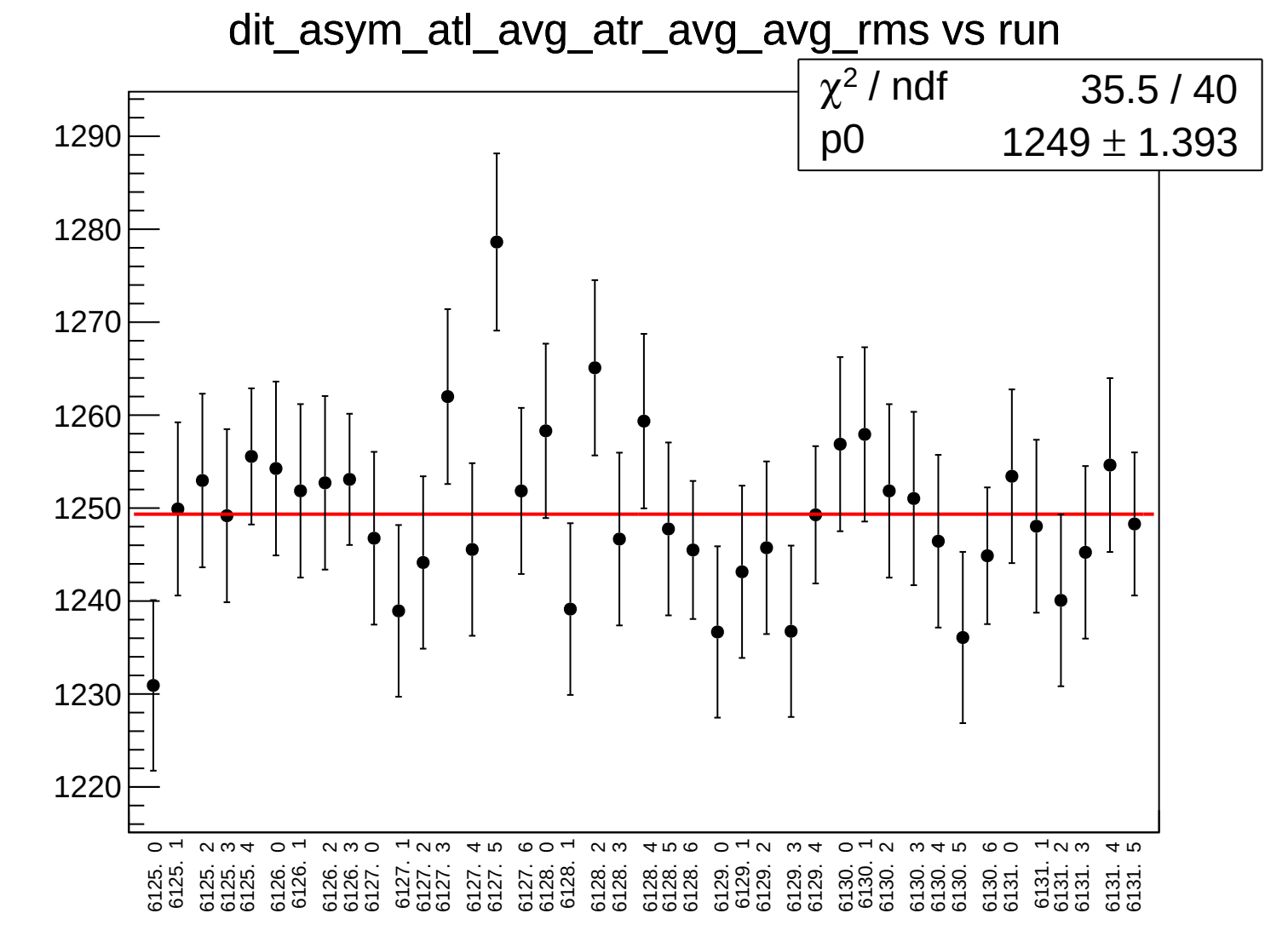
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −38.34
Std Dev 9.818
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.0129
Std Dev 0.9147
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_avg_rms vs run
χ² / ndf 35.5 / 40
p0 1249 ± 1.393
1290
1280
1270
1260
1250
1240
1230
1220
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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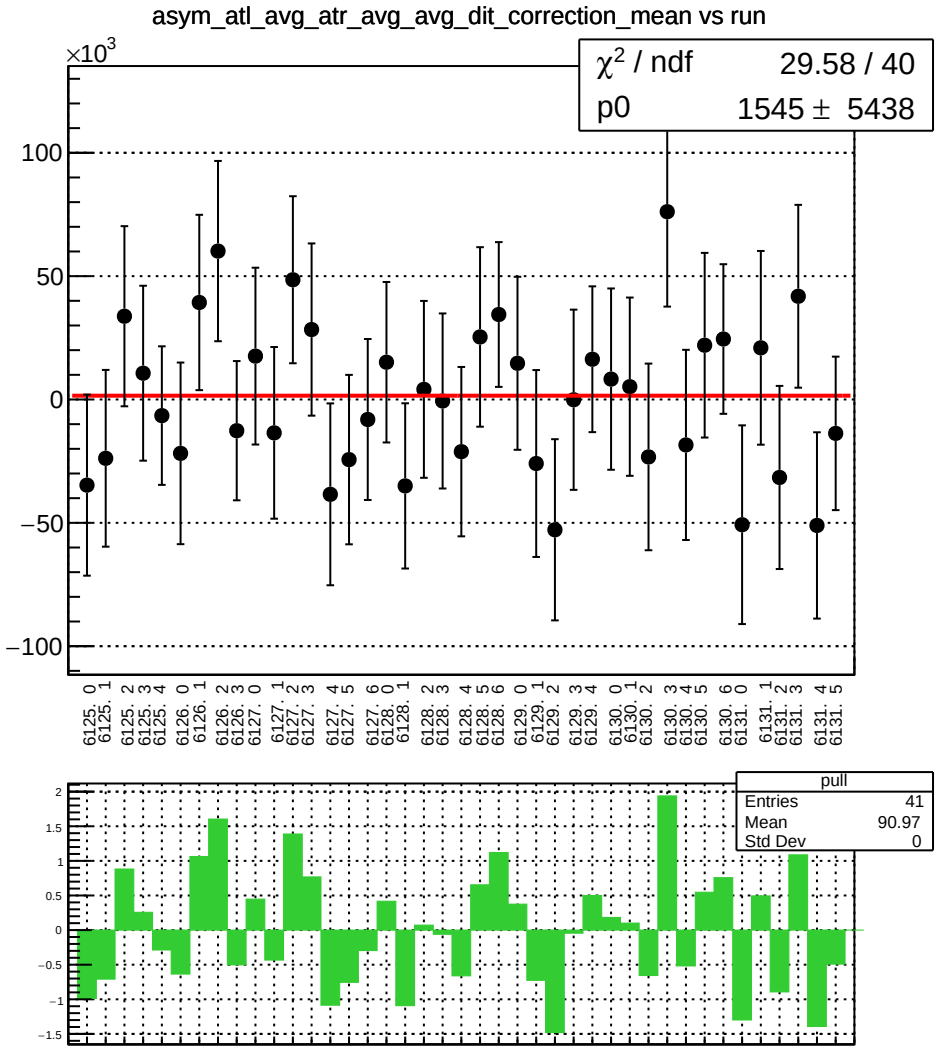
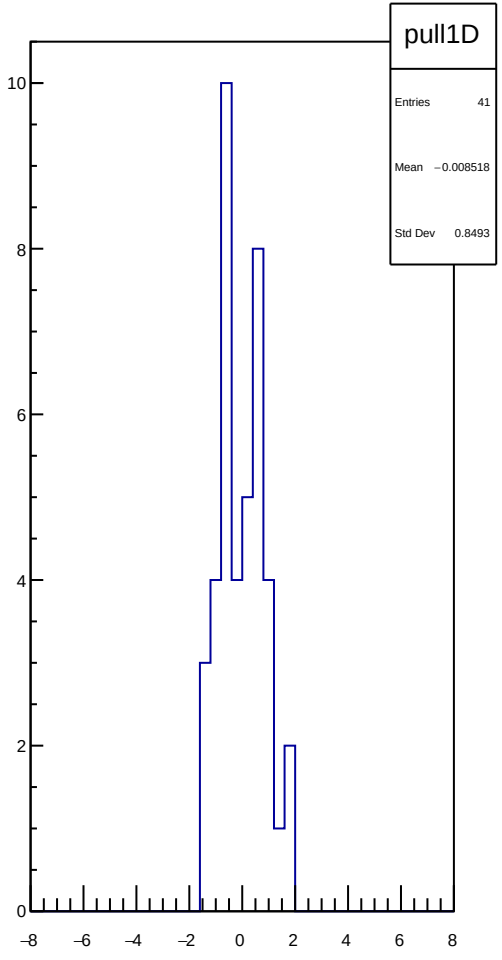
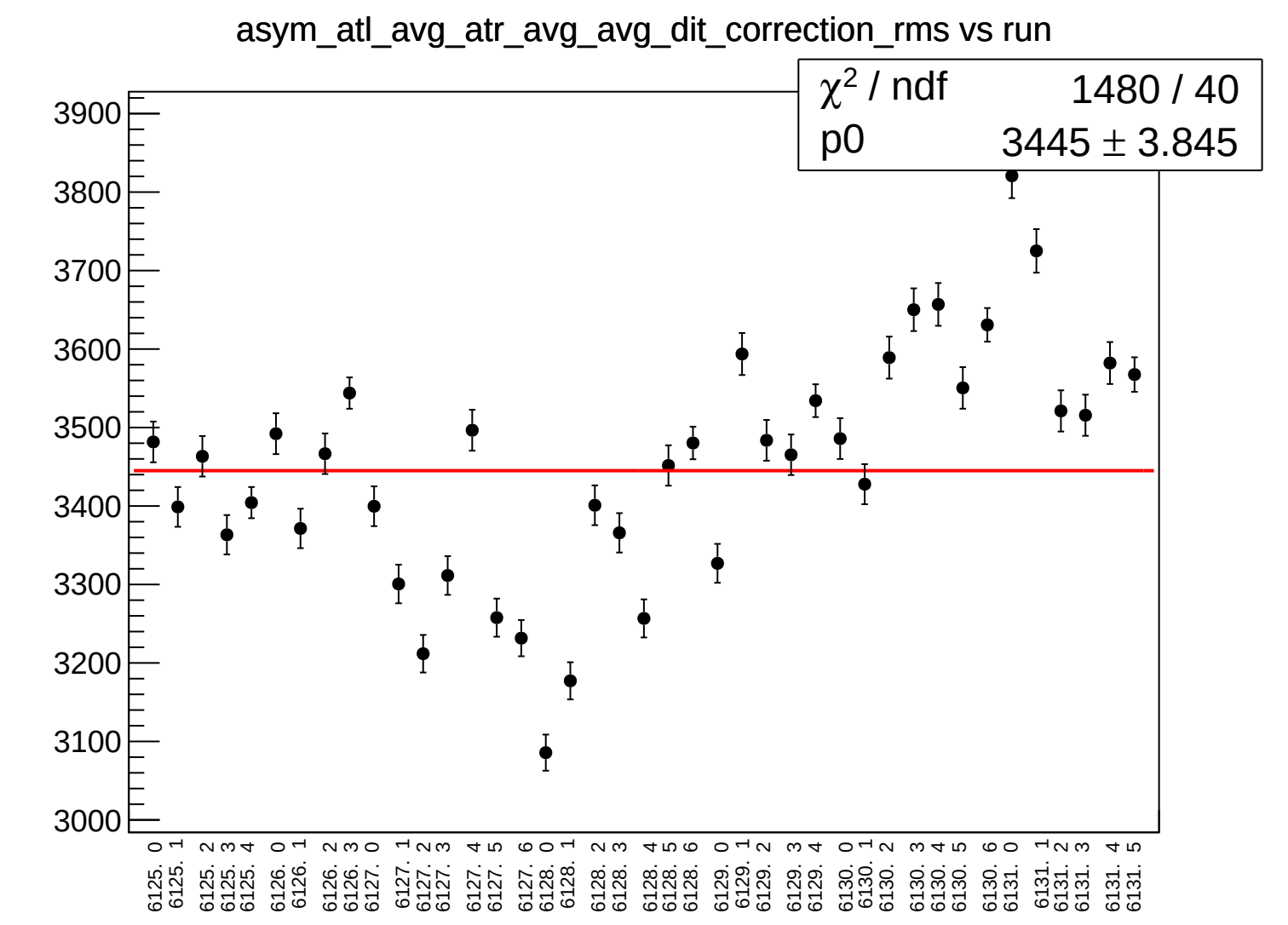
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 29.58 / 40
p0 1545 ± 5438
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 90.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.008518
Std Dev 0.8493
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 1480 / 40
p0 3445 ± 3.845
3900
3800
3700
3600
3500
3400
3300
3200
3100
3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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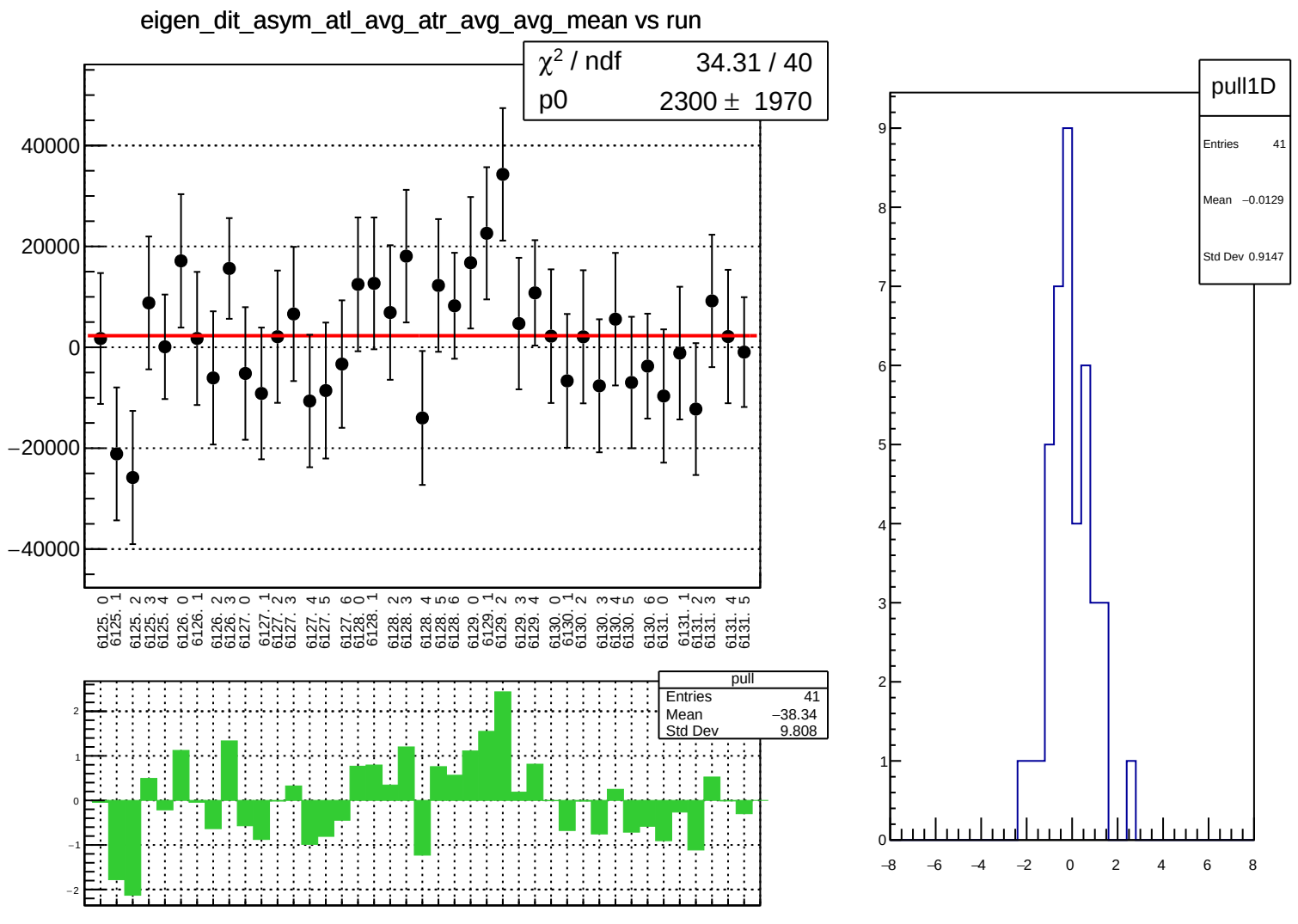
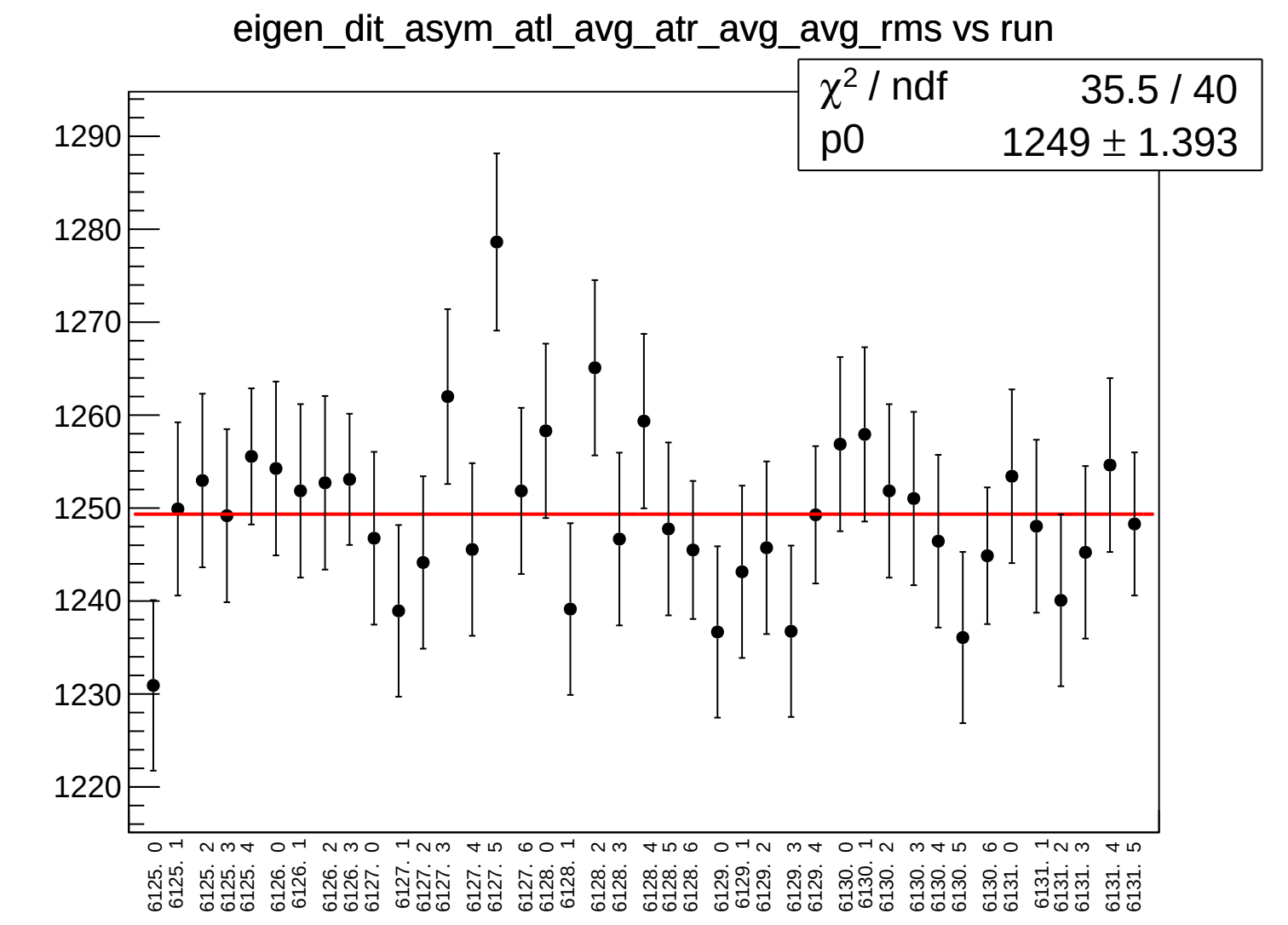
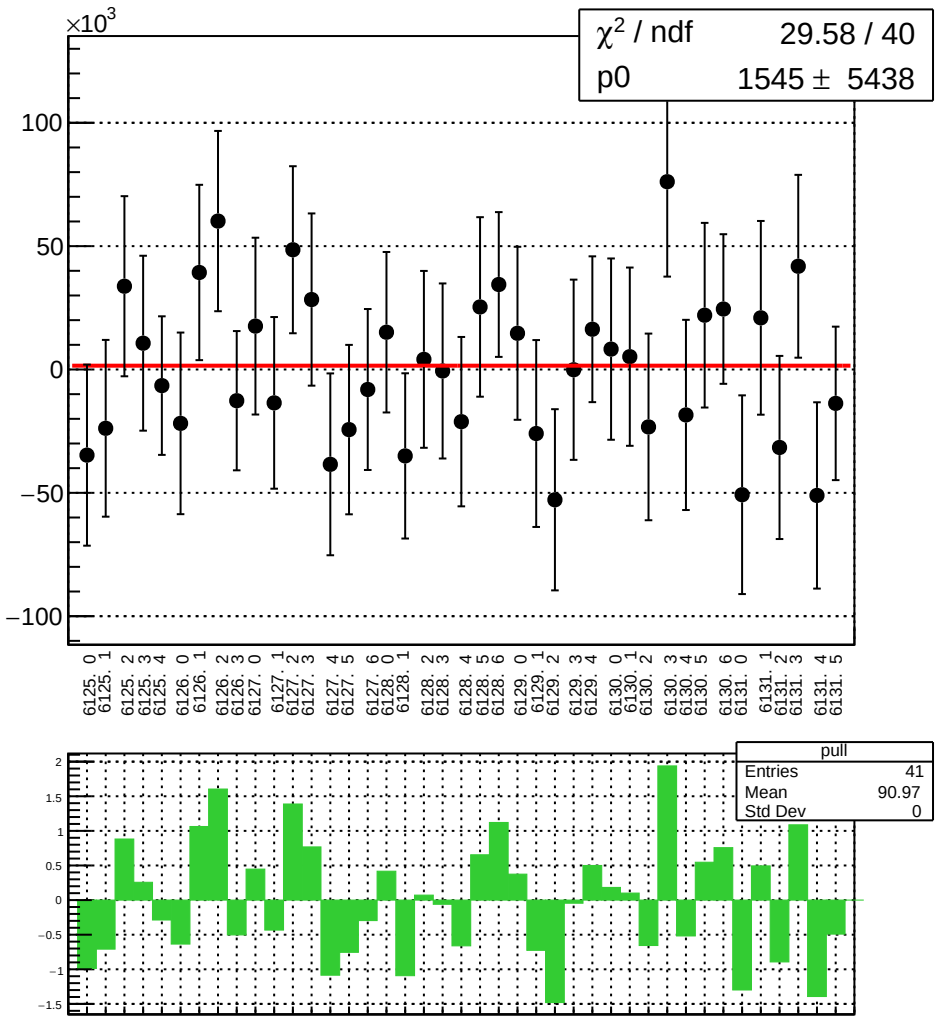
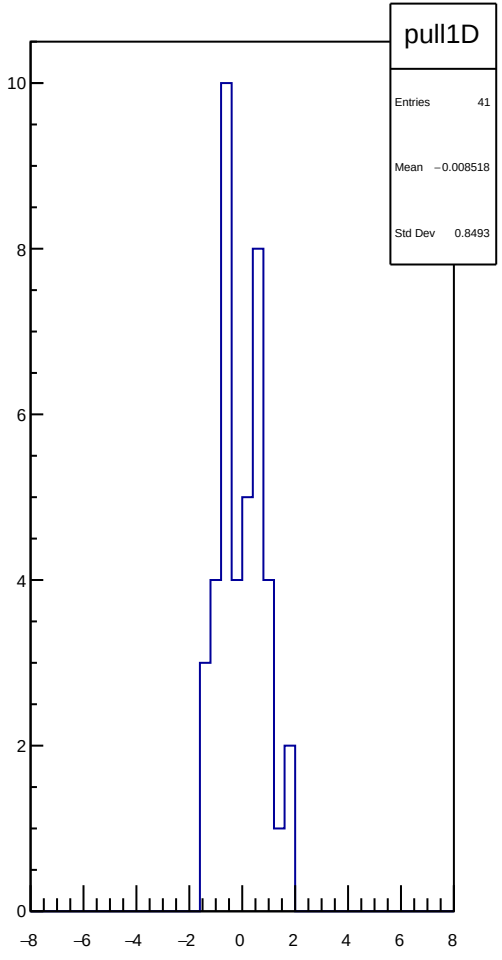
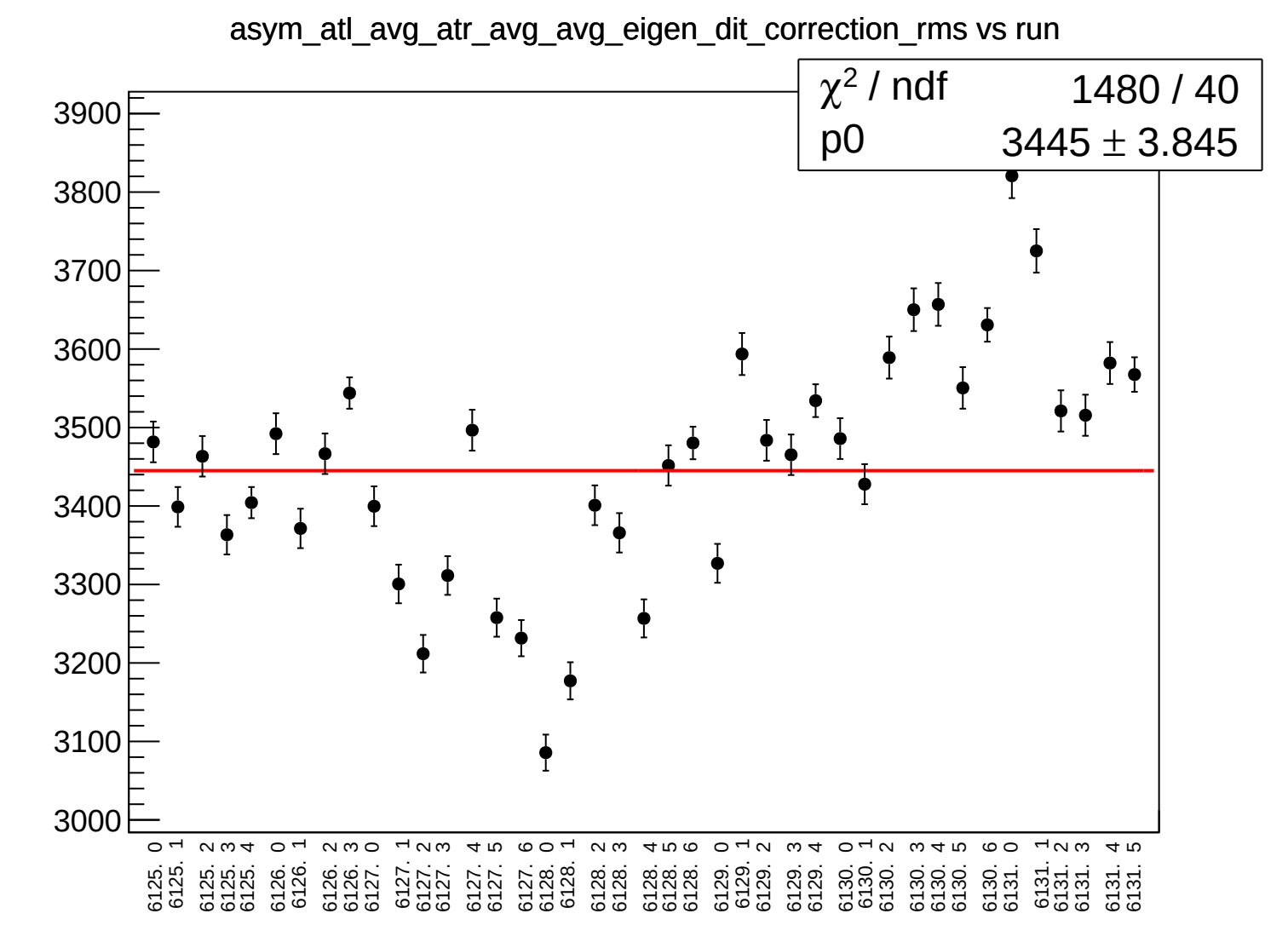
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

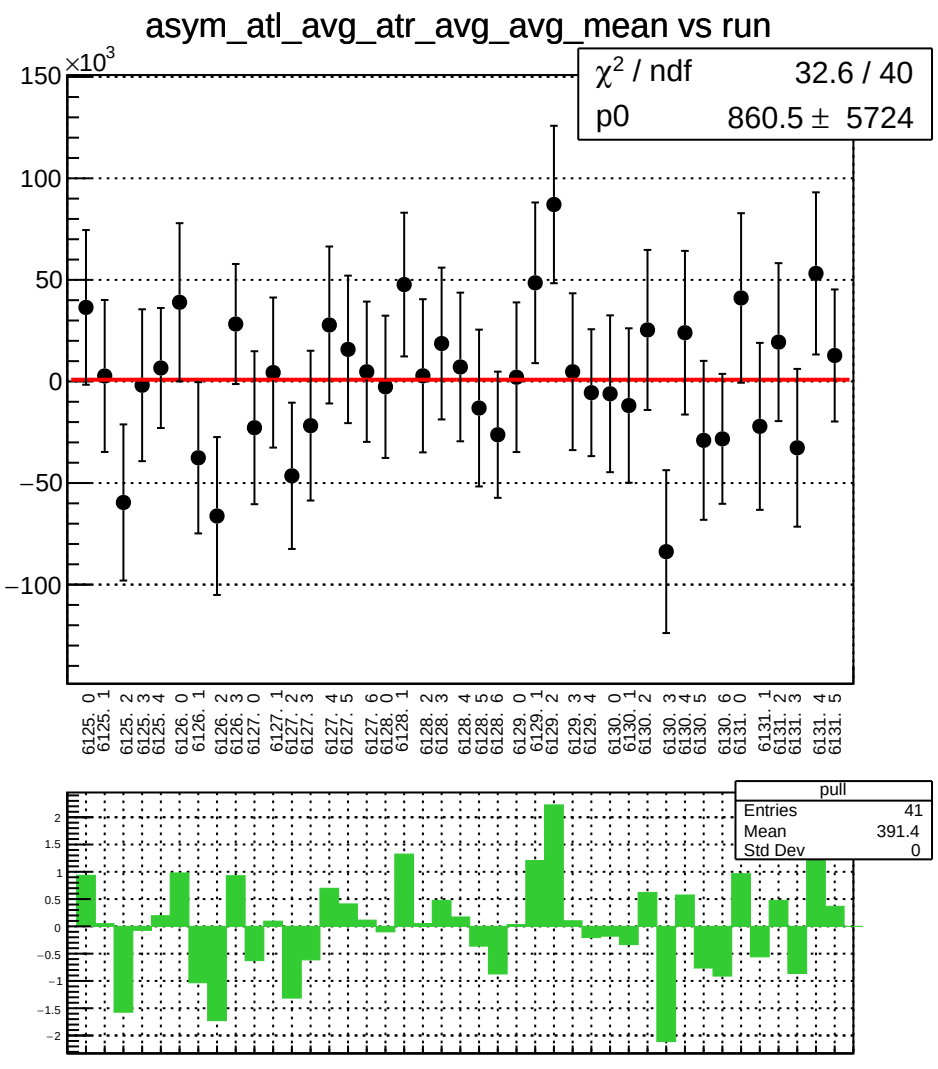

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 34.31 / 40
p0 2300 ± 1970
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −38.34
Std Dev 9.808
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.0129
Std Dev 0.9147
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

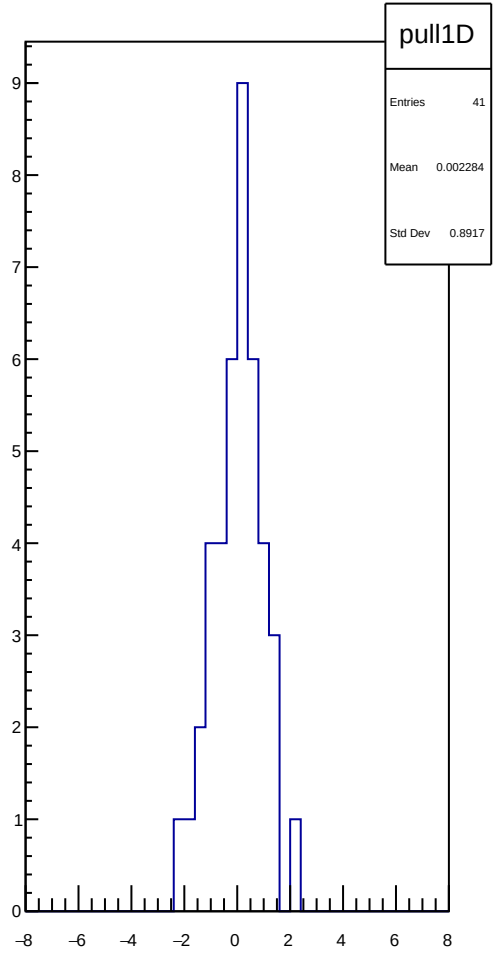

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 35.5 / 40
p0 1249 ± 1.393
1290
1280
1270
1260
1250
1240
1230
1220
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

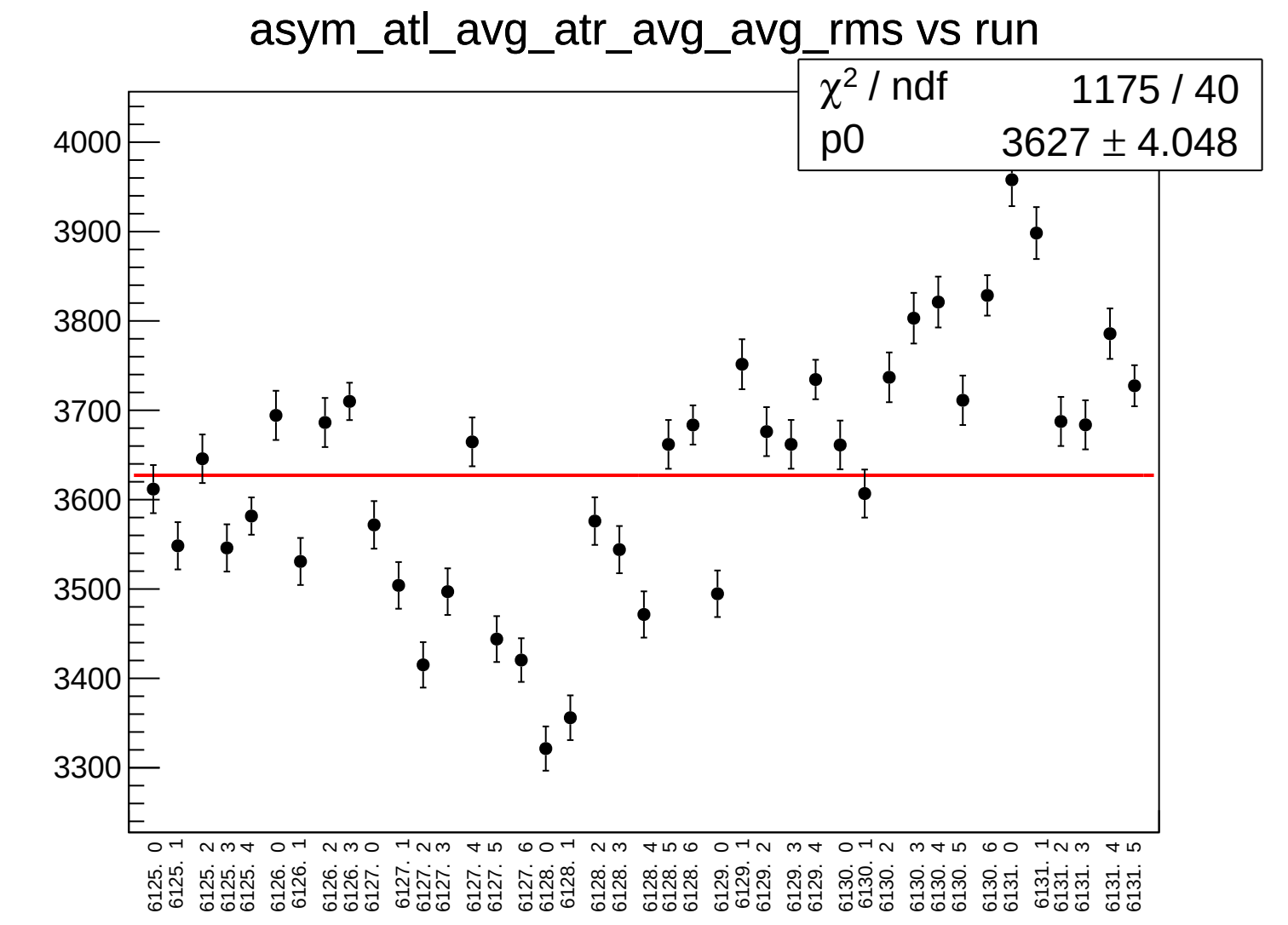

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 29.58 / 40
p0 1545 ± 5438
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 90.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

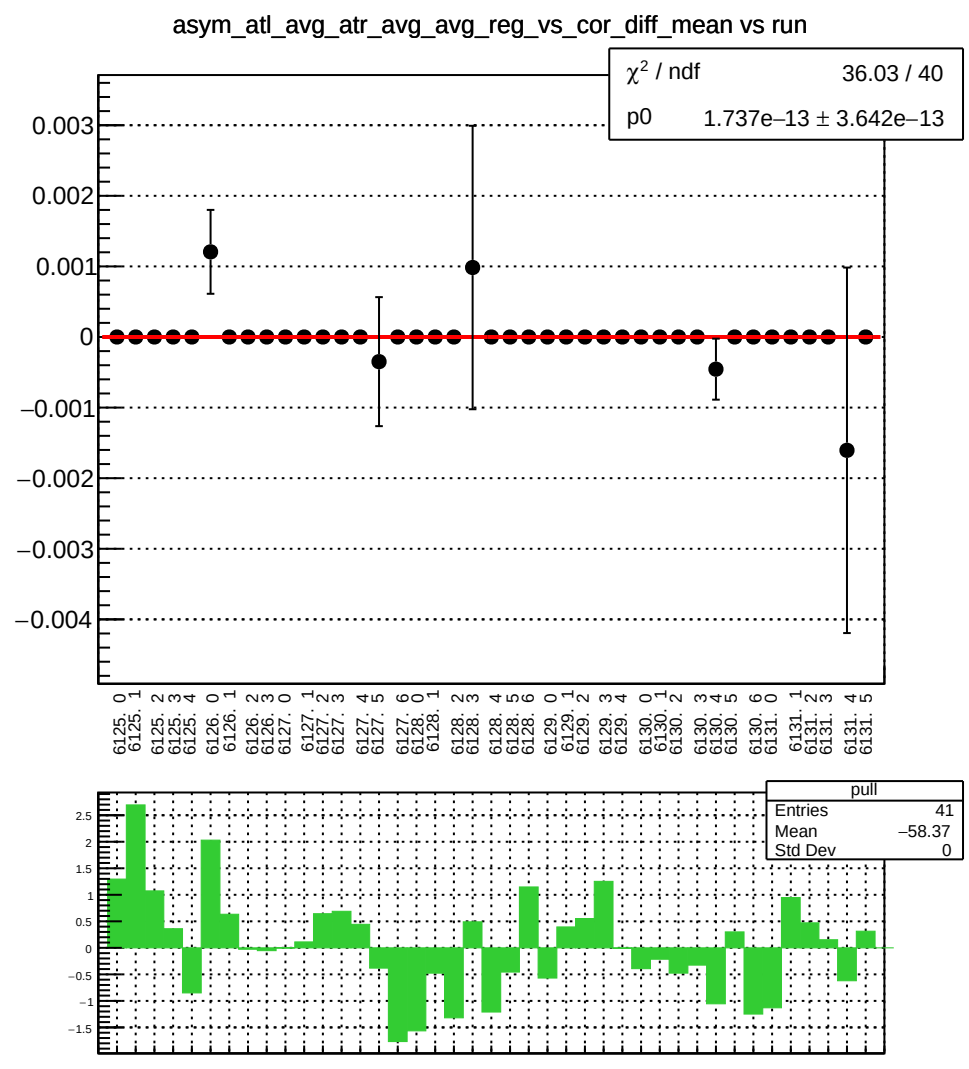

pull1D
Entries 41
Mean −0.008518
Std Dev 0.8493
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

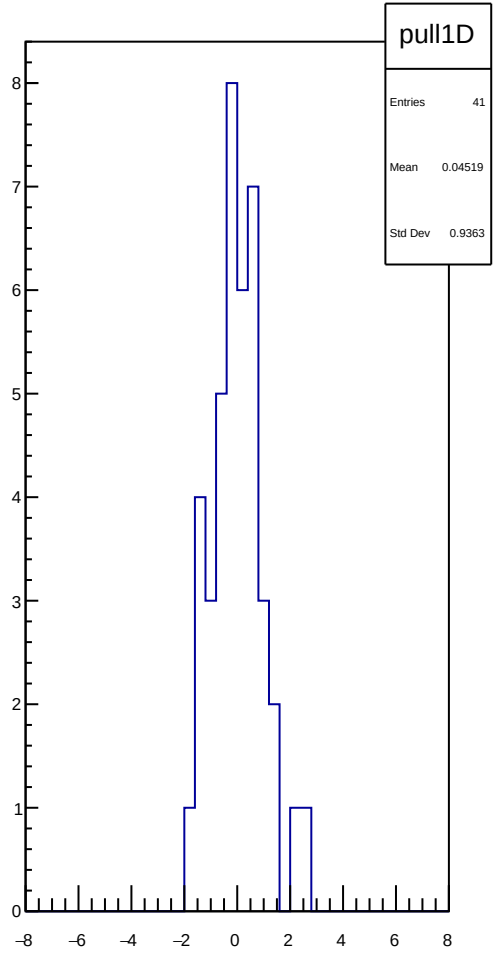

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1480 / 40
p0 3445 ± 3.845
3900
3800
3700
3600
3500
3400
3300
3200
3100
3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

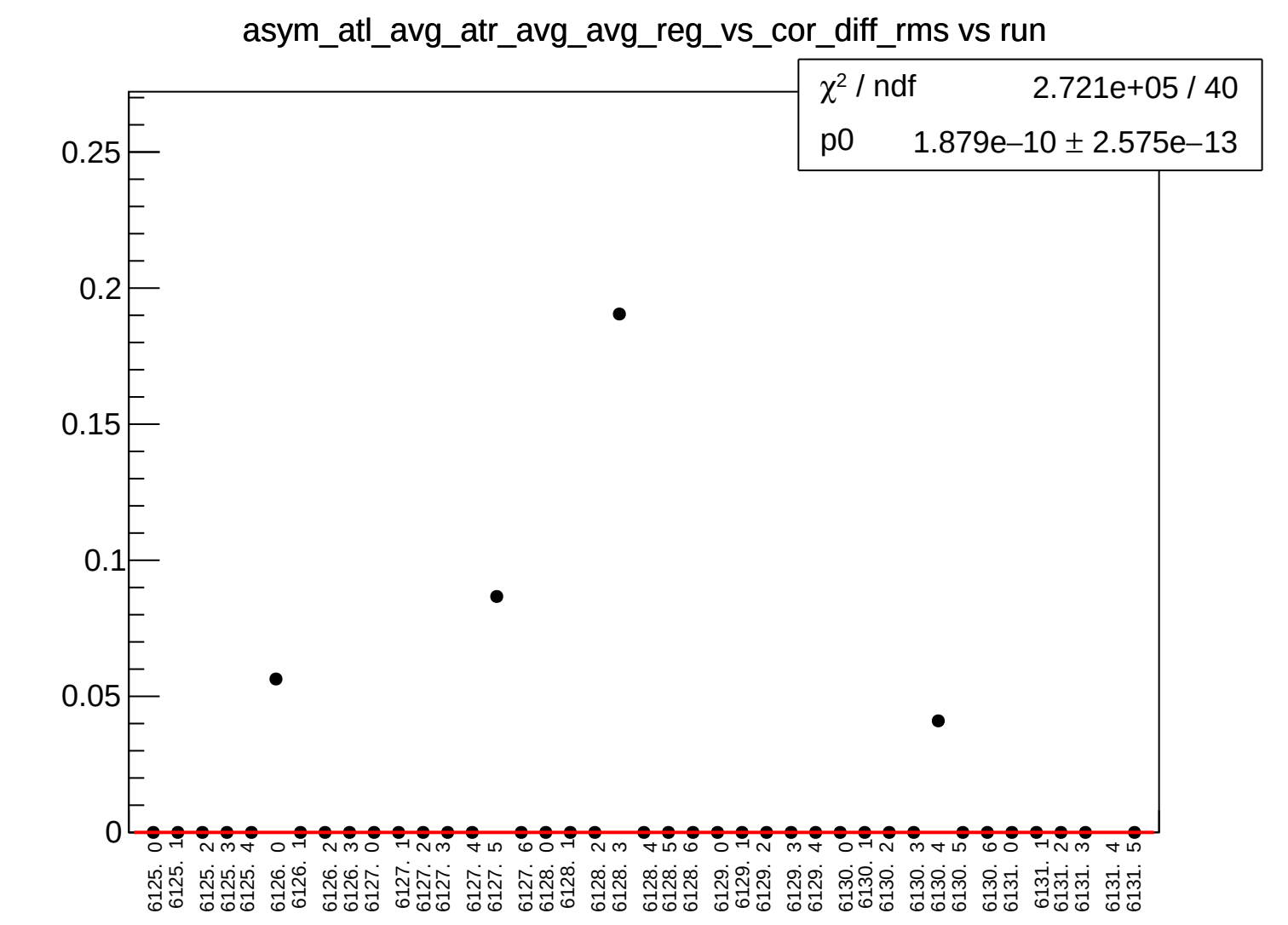

asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 32.6 / 40
p0 860.5 ± 5724
×10³
150
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 391.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

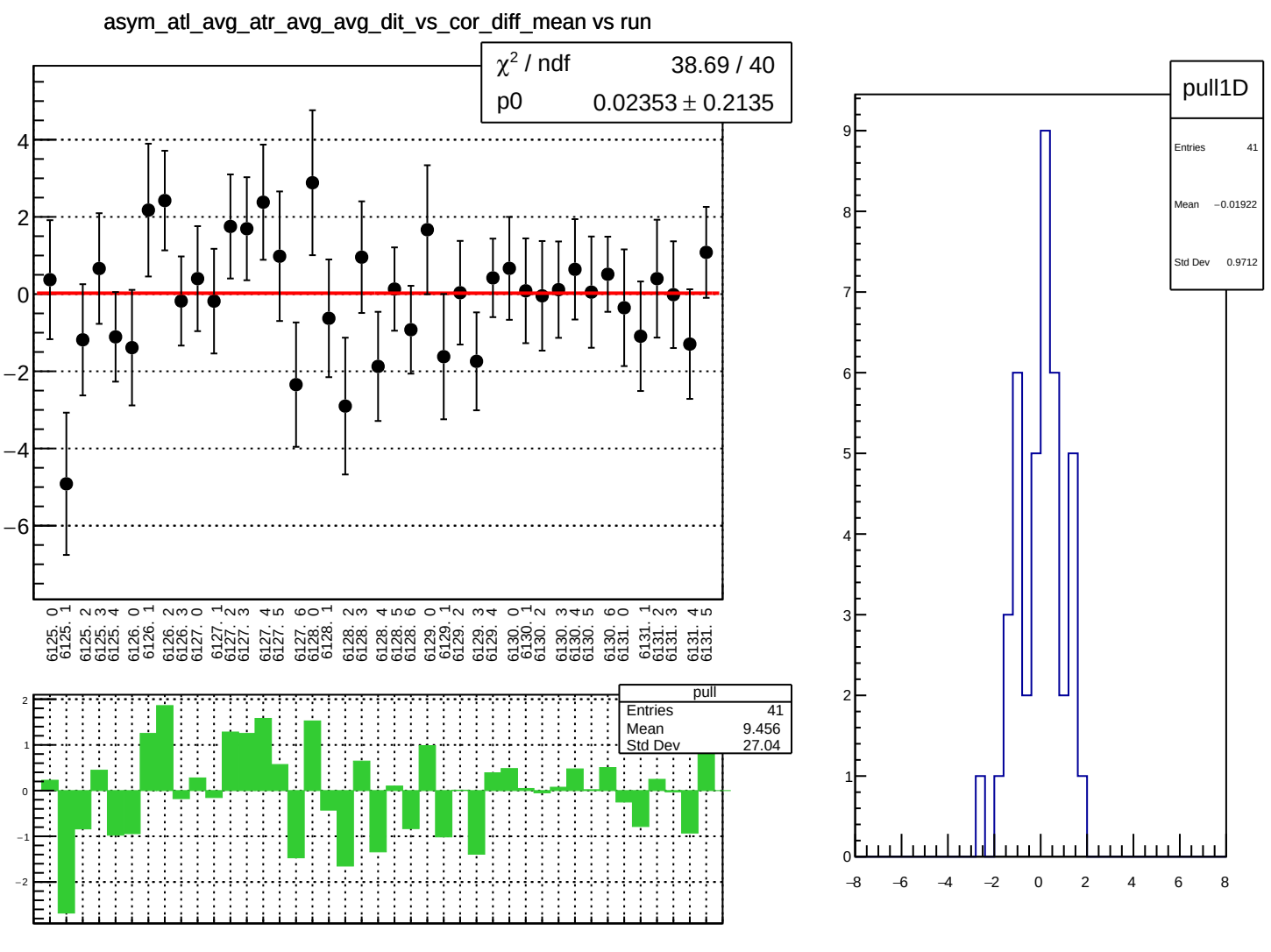

pull1D
Entries 41
Mean 0.002284
Std Dev 0.8917
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

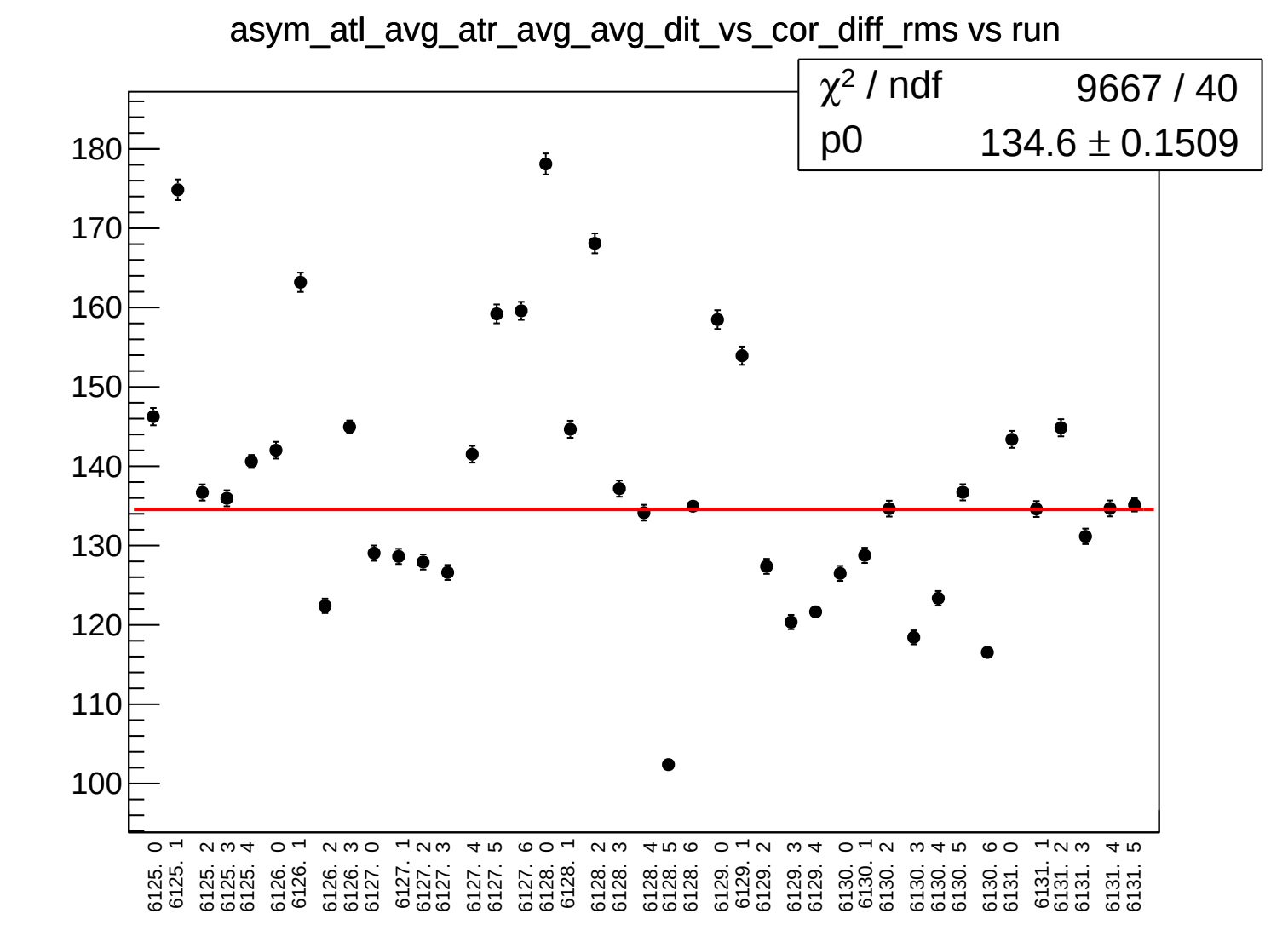

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1175 / 40
p0 3627 ± 4.048
4000
3900
3800
3700
3600
3500
3400
3300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

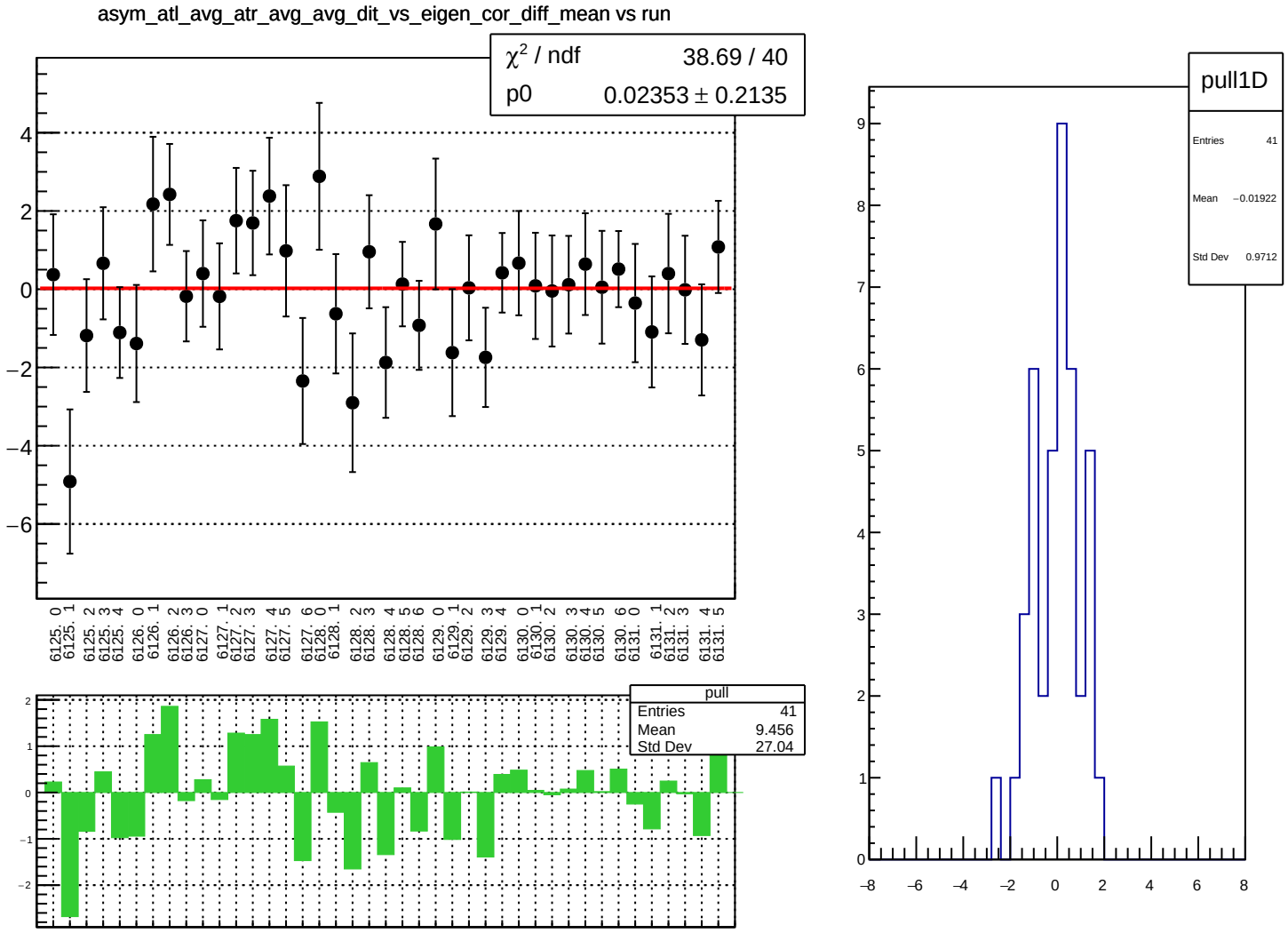

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 36.03 / 40
p0 1.737e−13 ± 3.642e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −58.37
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

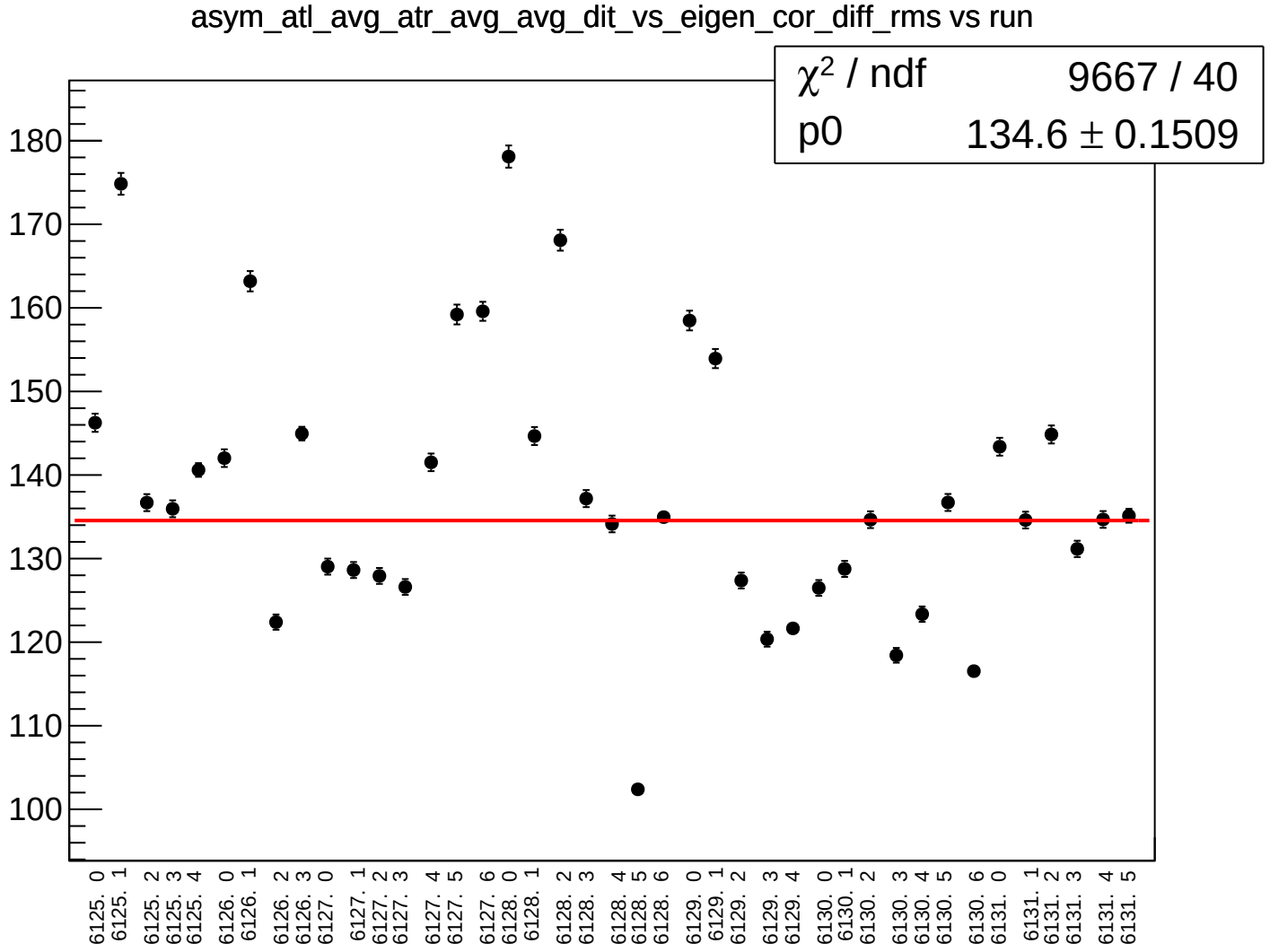

pull1D
Entries 41
Mean 0.04519
Std Dev 0.9363
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

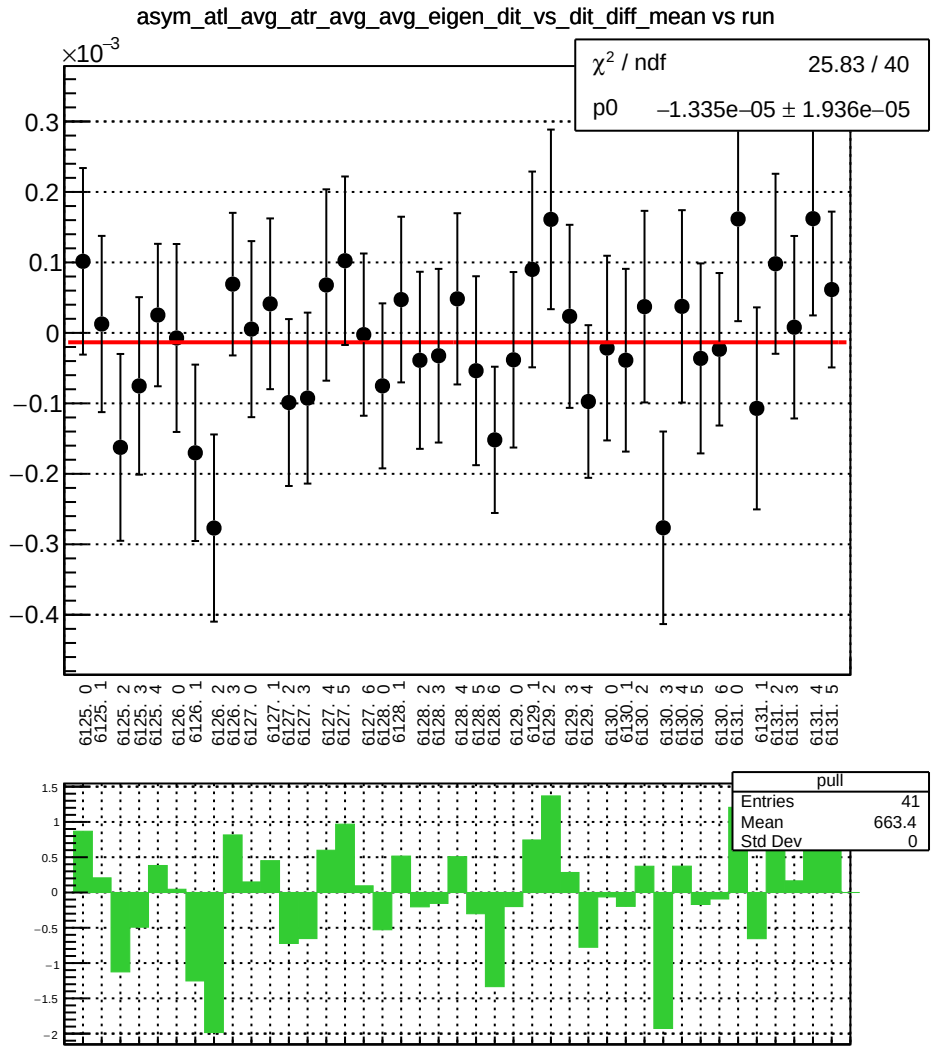

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.721e+05 / 40
p0 1.879e−10 ± 2.575e−13
0.25
0.2
0.15
0.1
0.05
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

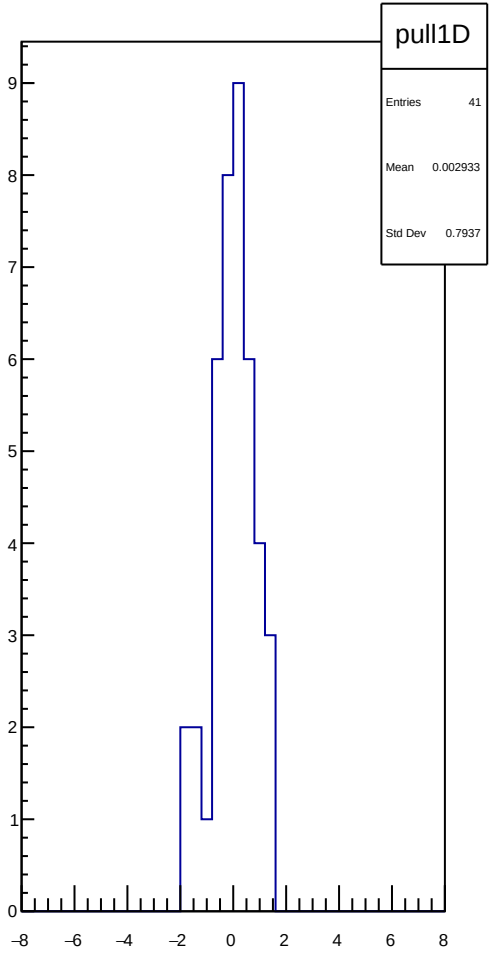

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 38.69 / 40
p0 0.02353 ± 0.2135
pull
Entries 41
Mean 9.456
Std Dev 27.04
pull1D
Entries 41
Mean −0.01922
Std Dev 0.9712

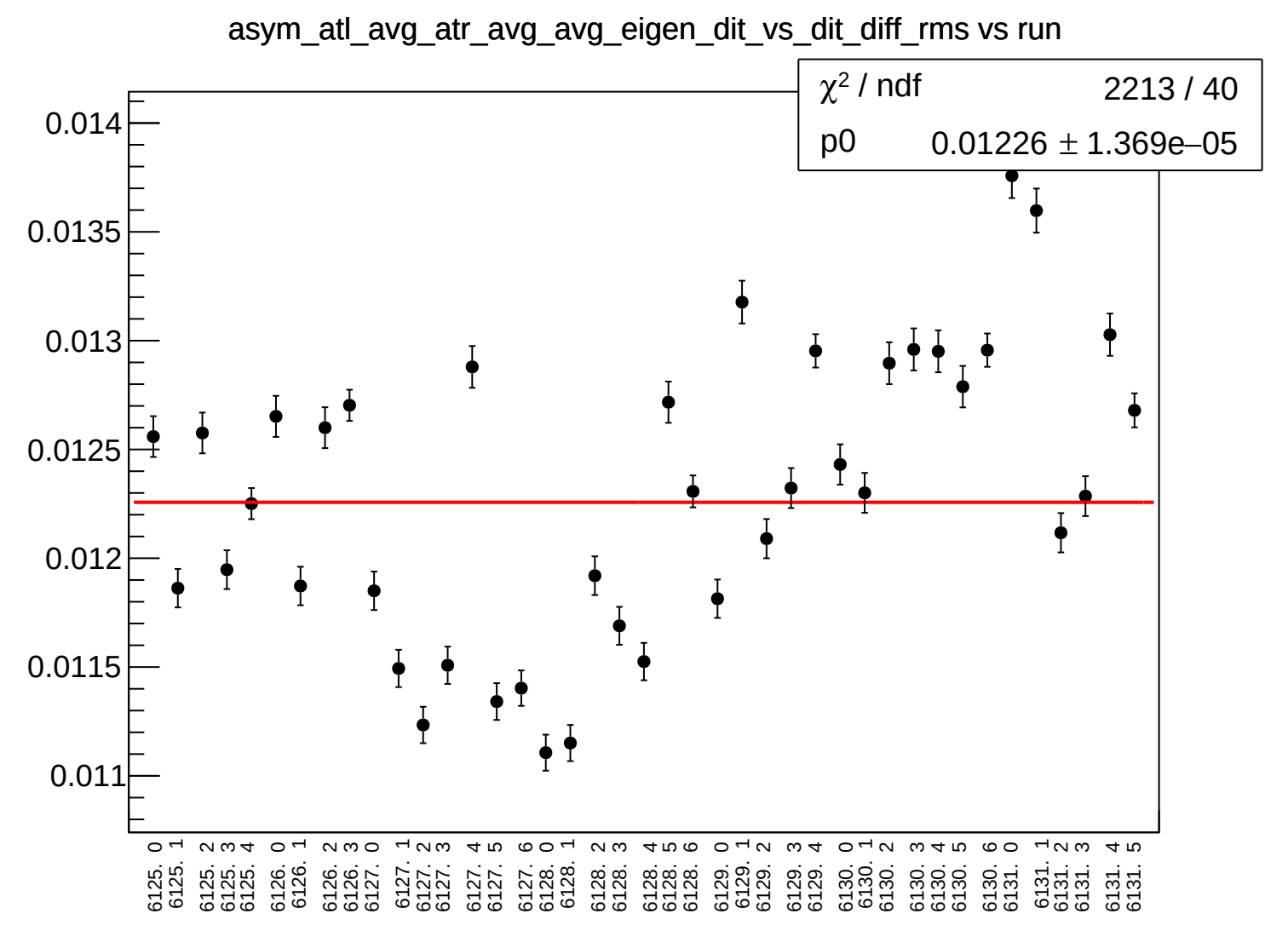

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9667 / 40
p0 134.6 ± 0.1509
180
170
160
150
140
130
120
110
100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

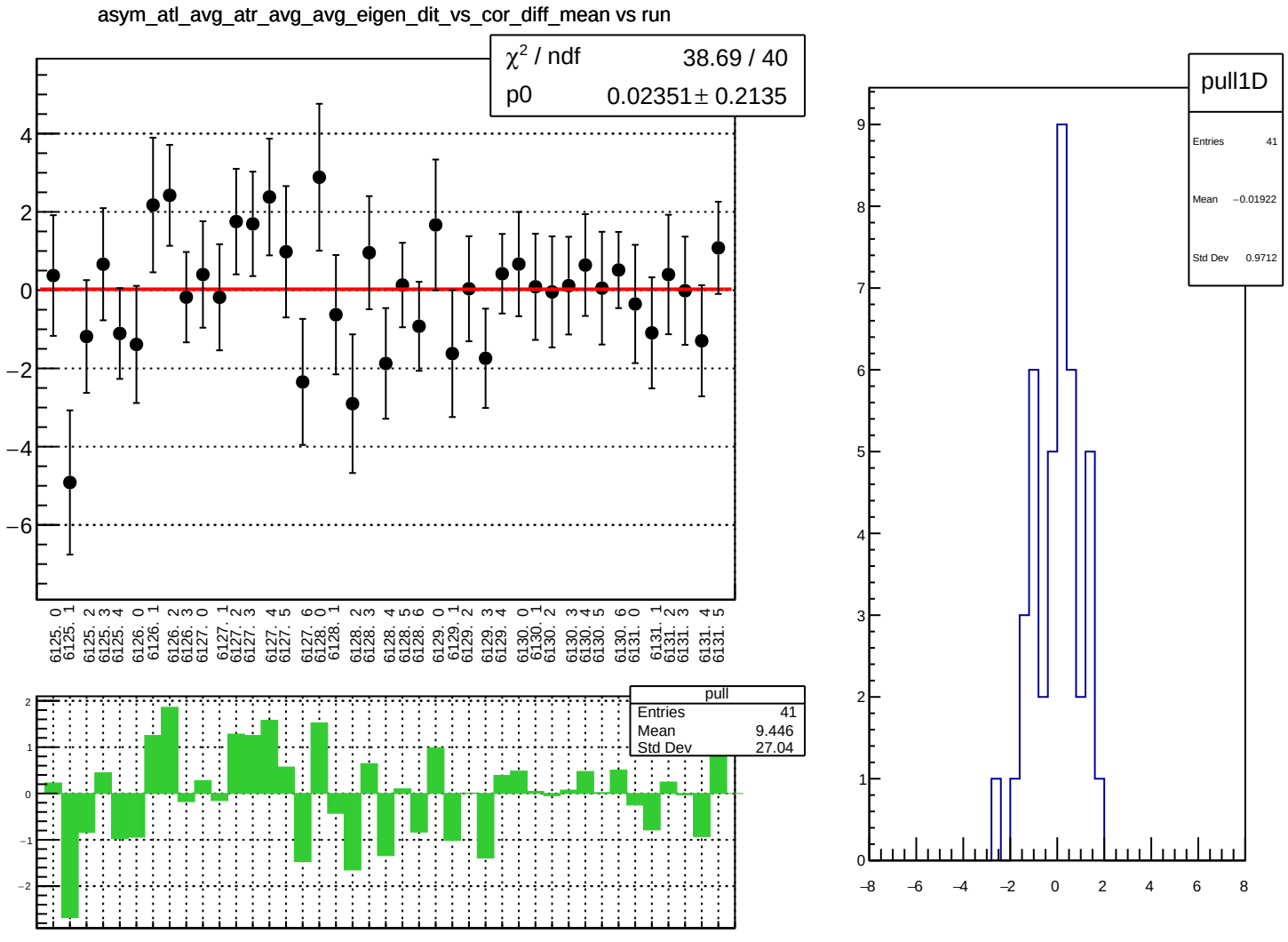

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.69 / 40
p0 0.02353 ± 0.2135
pull
Entries 41
Mean 9.456
Std Dev 27.04
pull1D
Entries 41
Mean −0.01922
Std Dev 0.9712

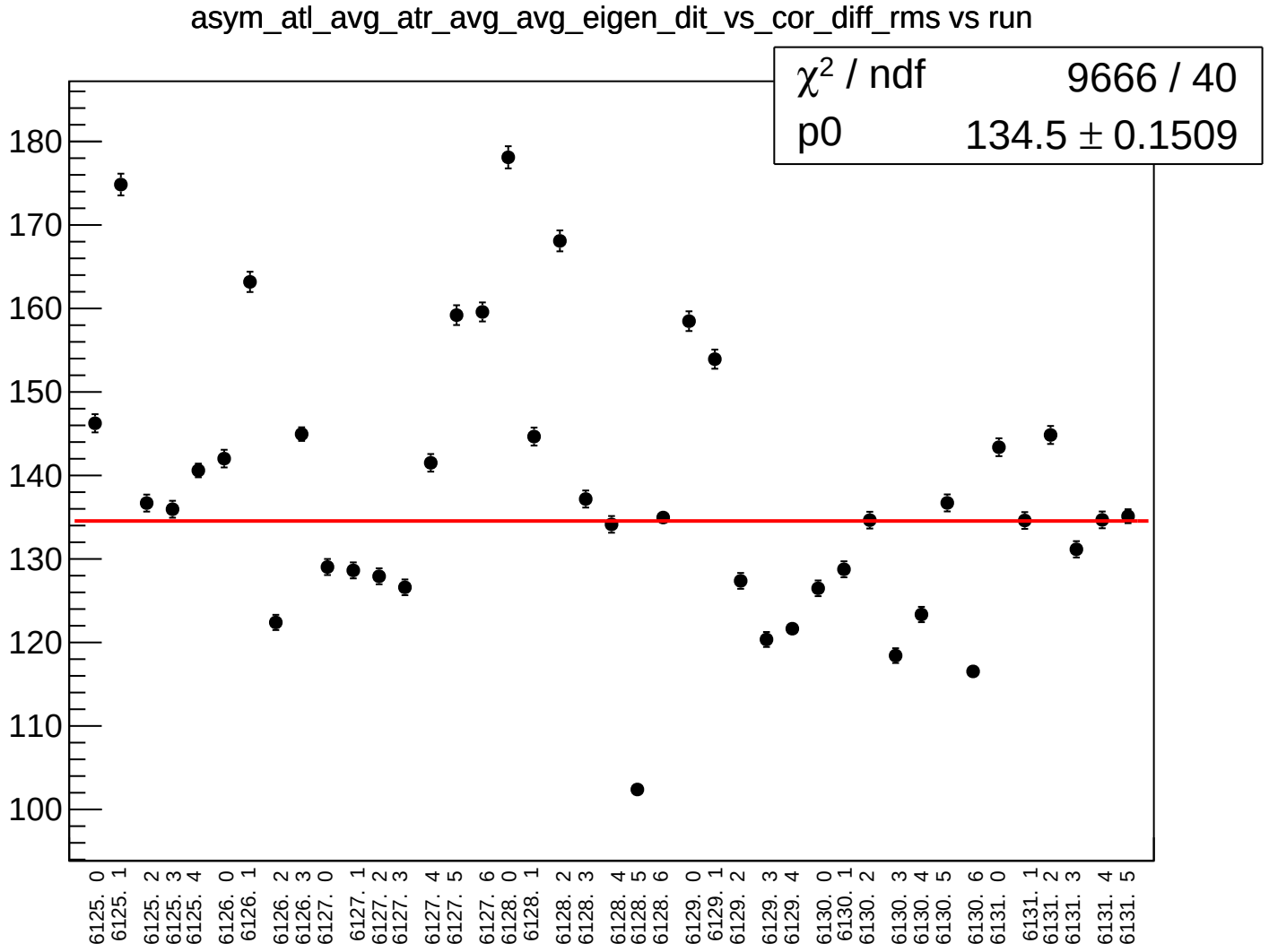

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9667 / 40
p0 134.6 ± 0.1509
180
170
160
150
140
130
120
110
100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 25.83 / 40
p0 −1.335e−05 ± 1.936e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 663.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.002933
Std Dev 0.7937
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 2213 / 40
p0 0.01226 ± 1.369e−05
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.69 / 40
p0 0.02351 ± 0.2135
pull
Entries 41
Mean 9.446
Std Dev 27.04
pull1D
Entries 41
Mean −0.01922
Std Dev 0.9712


asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9666 / 40
p0 134.5 ± 0.1509
180
170
160
150
140
130
120
110
100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
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6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
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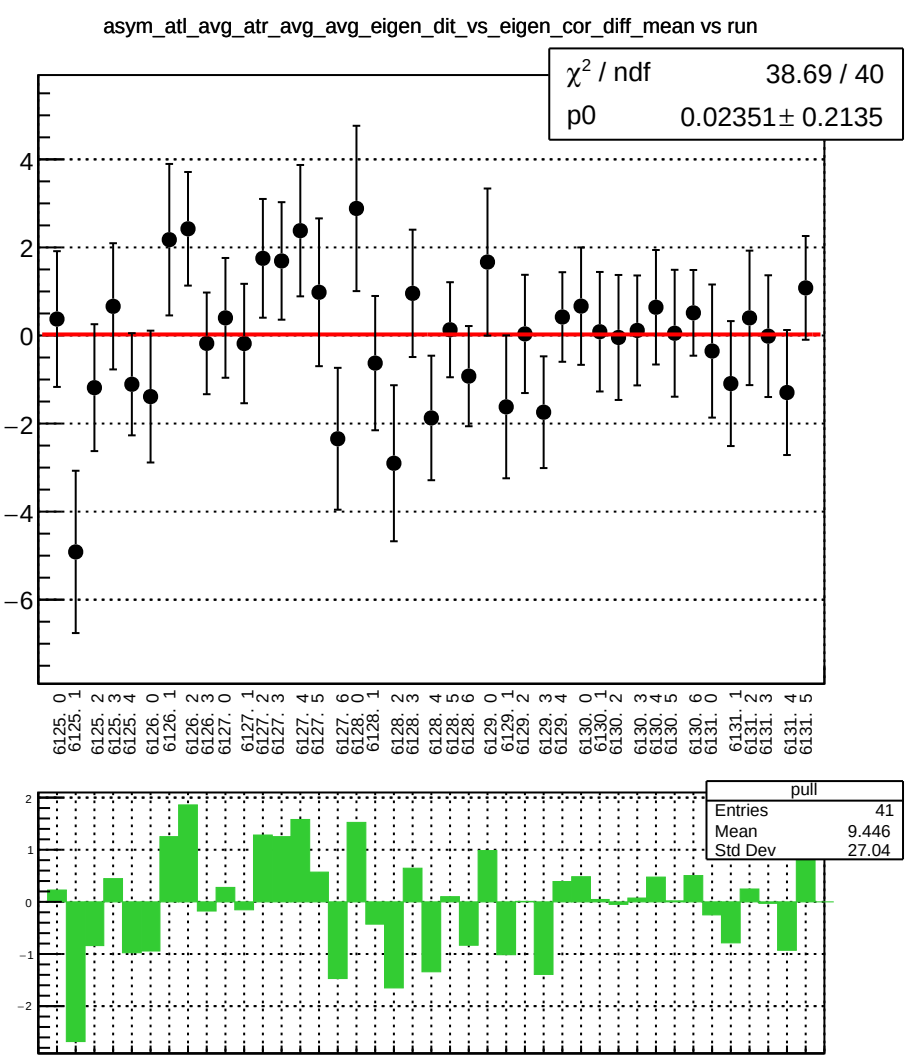
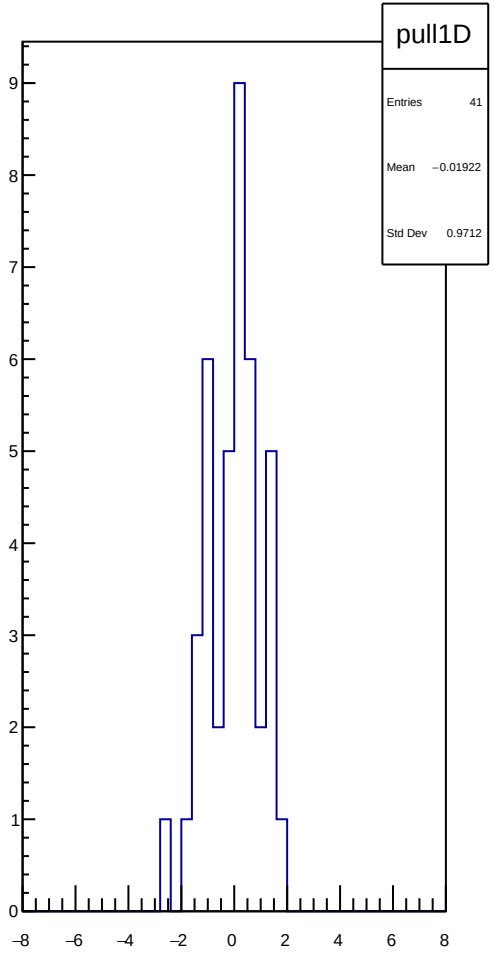
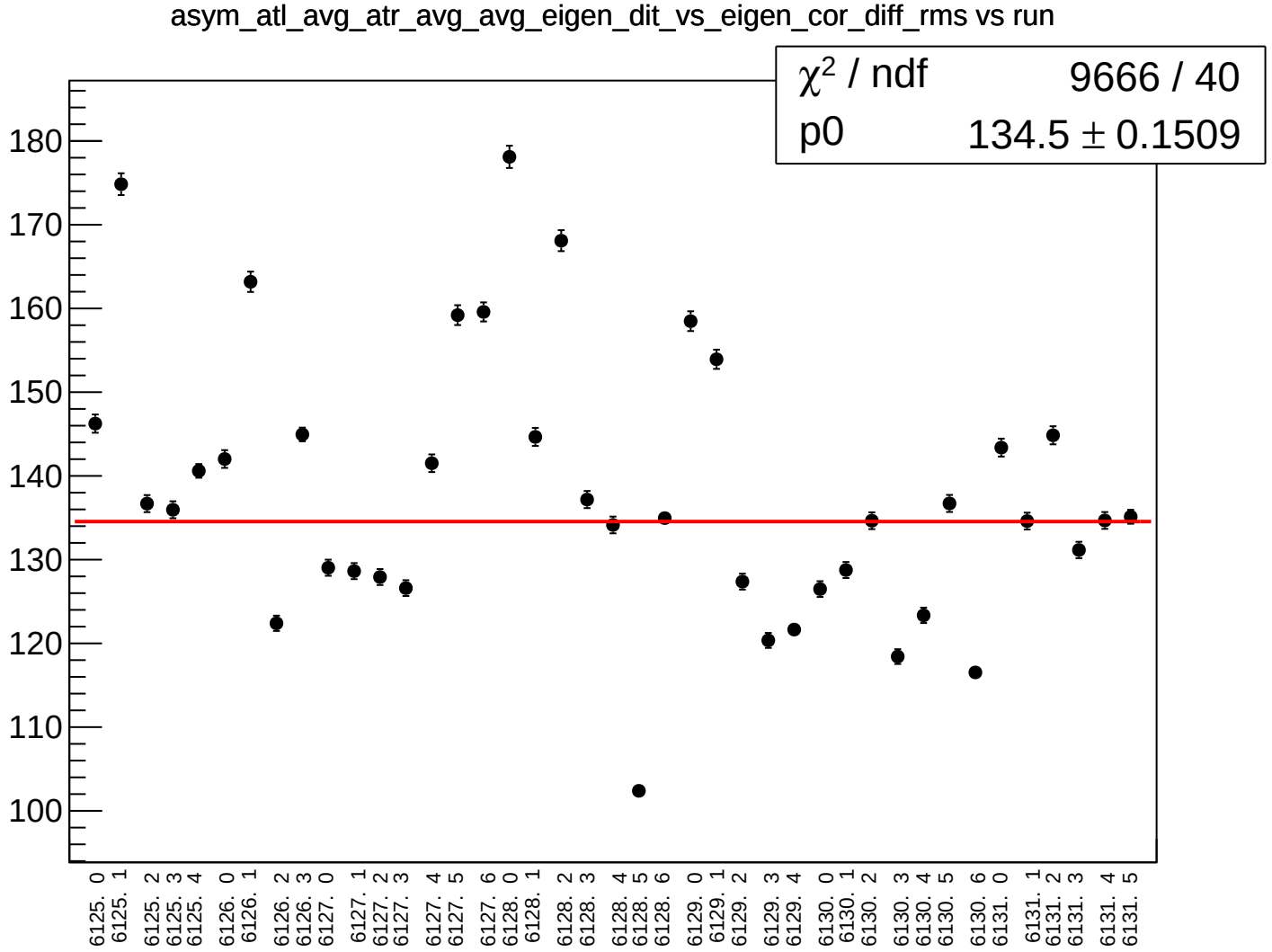
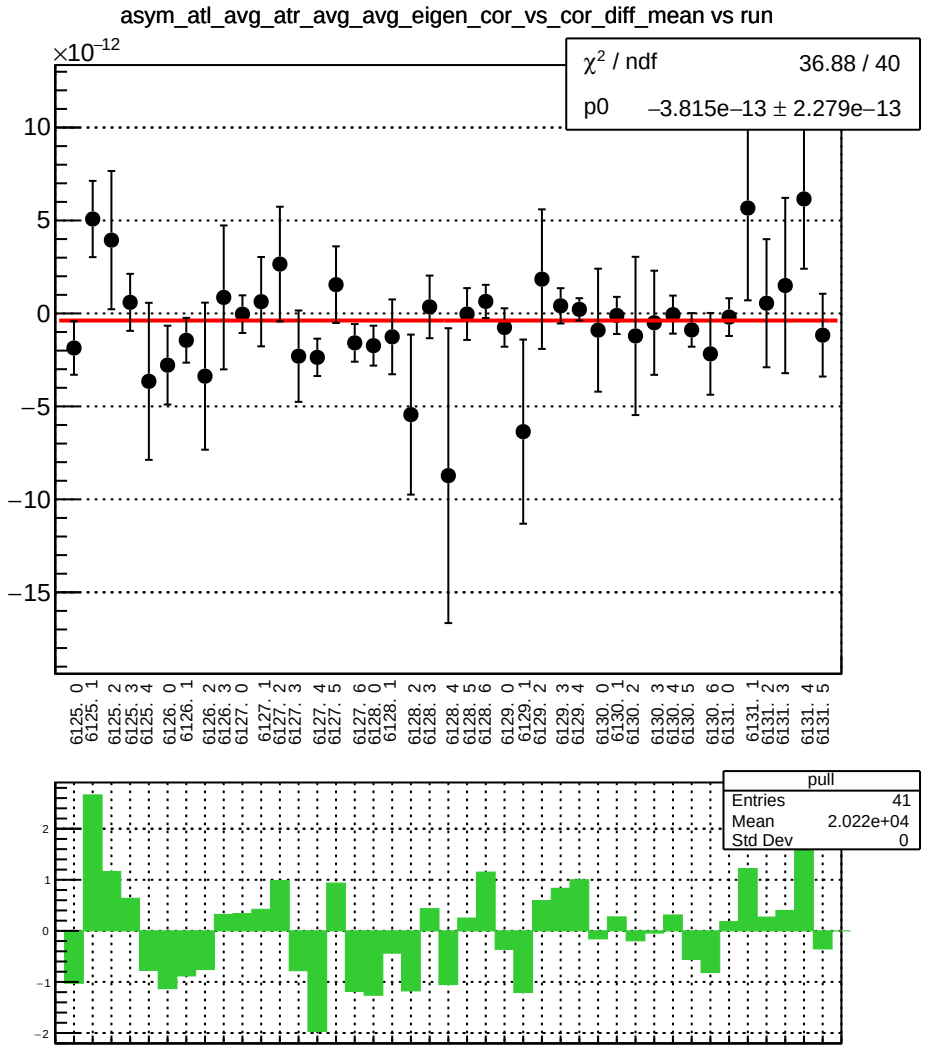
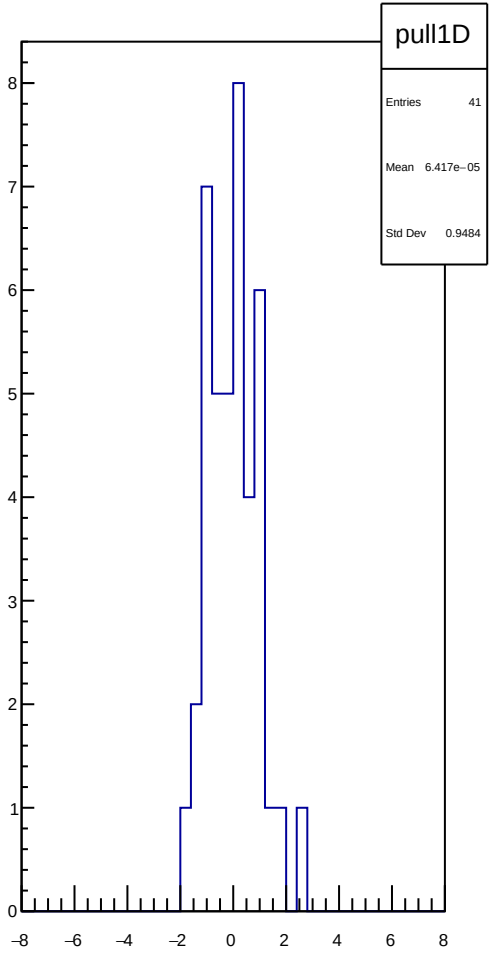
6131. 5

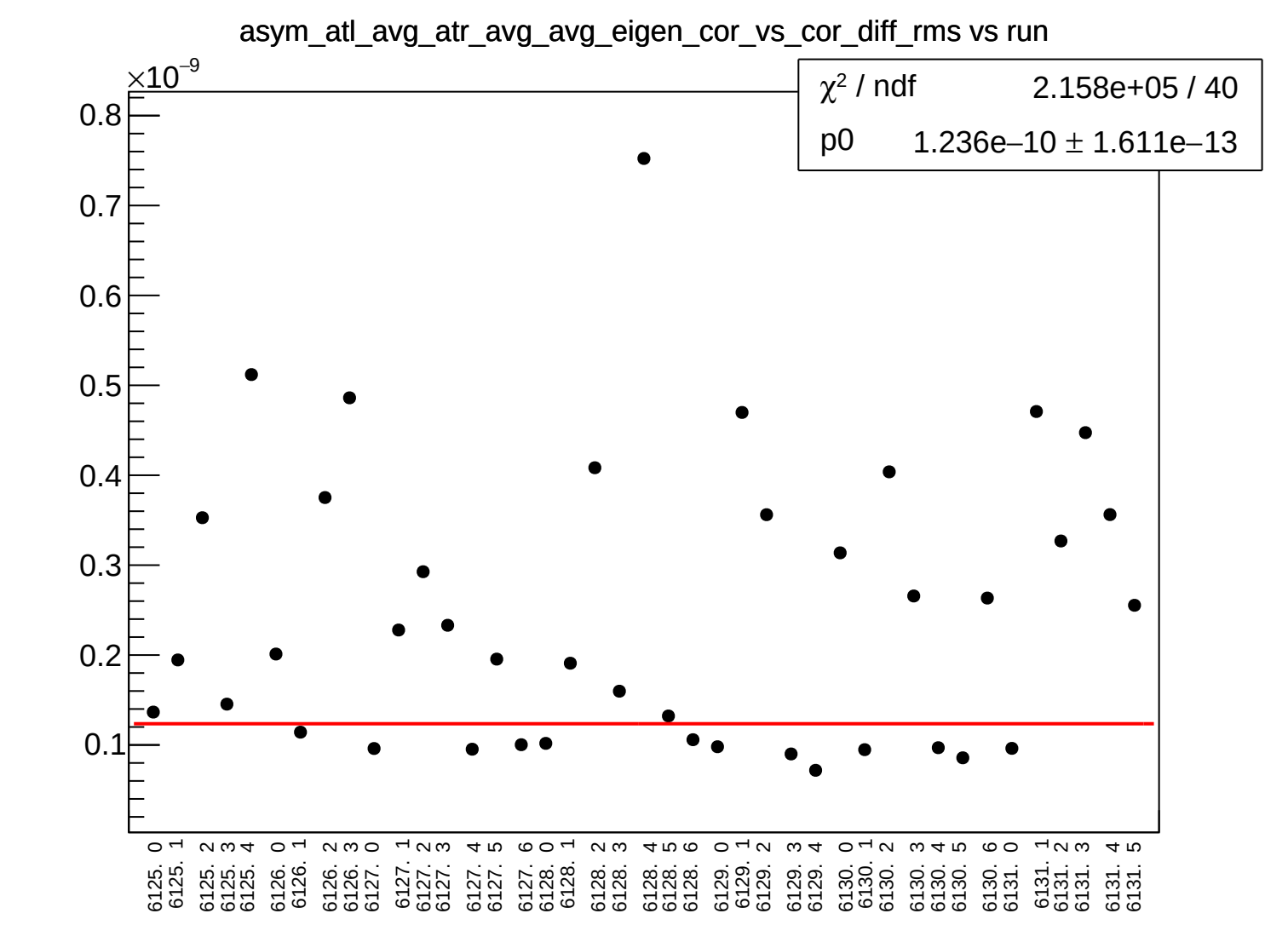

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.69 / 40
p0 0.02351 ± 0.2135
pull
Entries 41
Mean 9.446
Std Dev 27.04

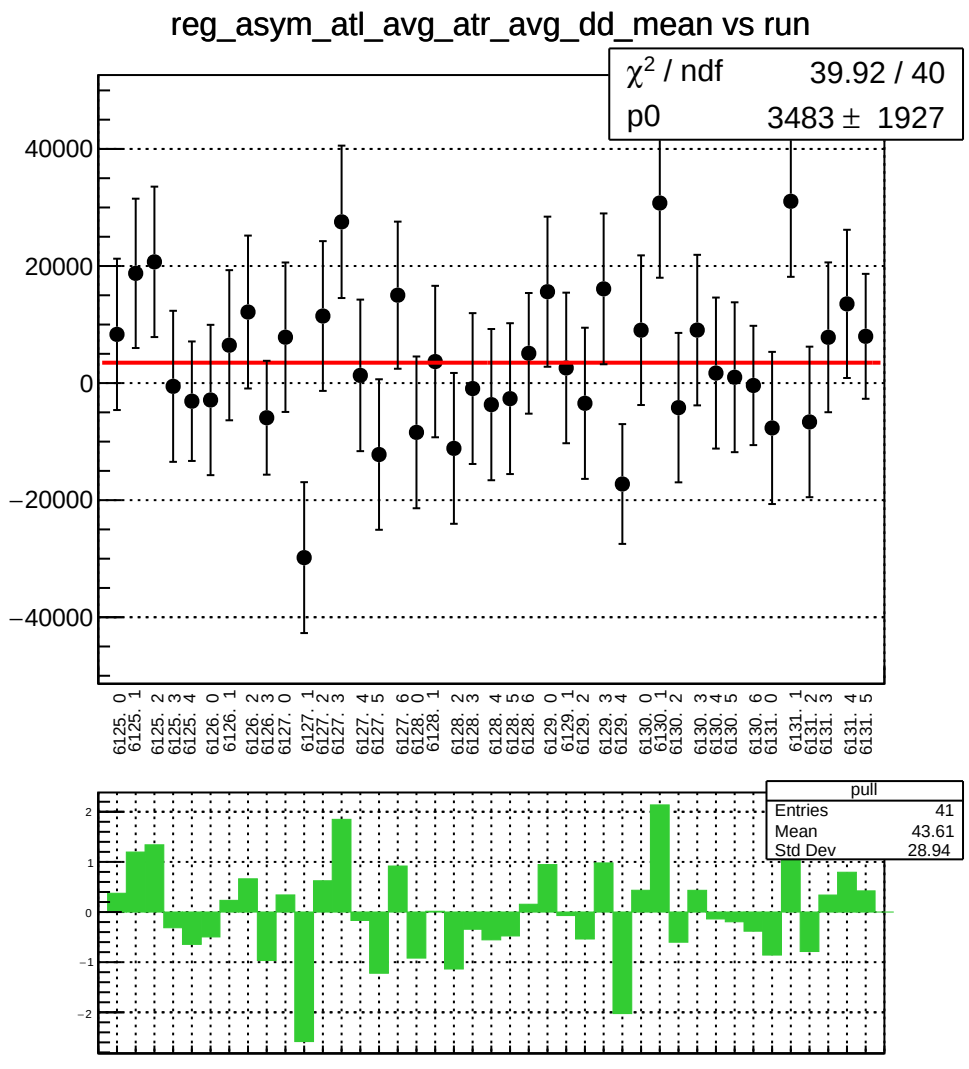

pull1D
Entries 41
Mean −0.01922
Std Dev 0.9712

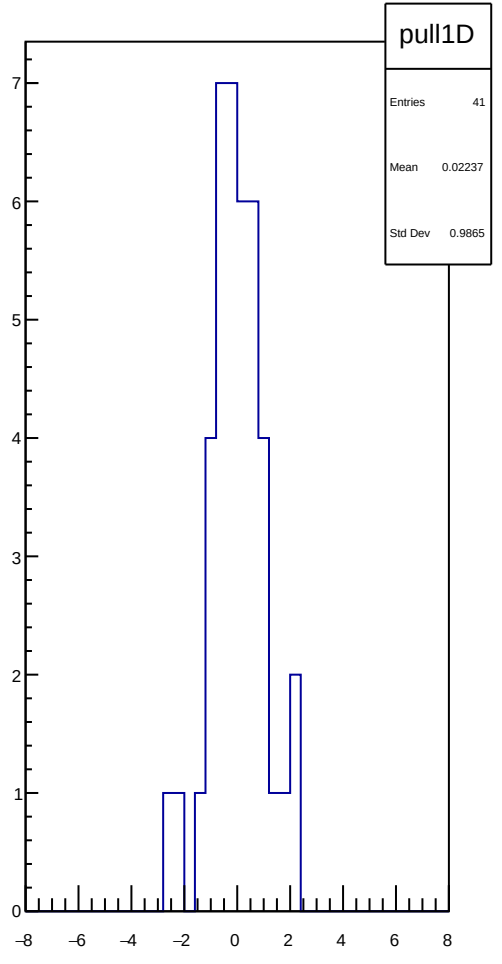

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9666 / 40
p0 134.5 ± 0.1509
180
170
160
150
140
130
120
110
100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

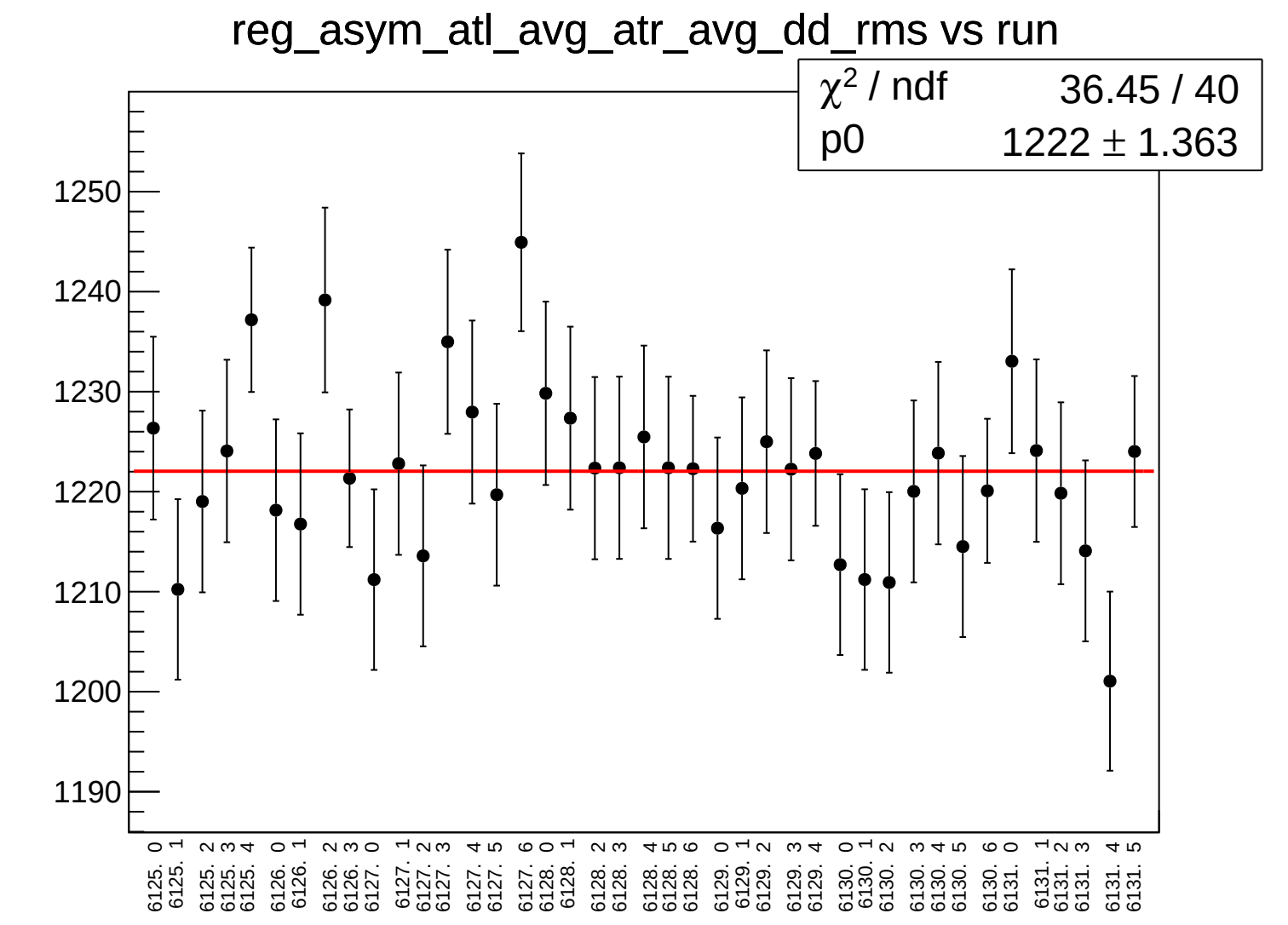

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 36.88 / 40
p0 −3.815e−13 ± 2.279e−13
pull
Entries 41
Mean 2.022e+04
Std Dev 0

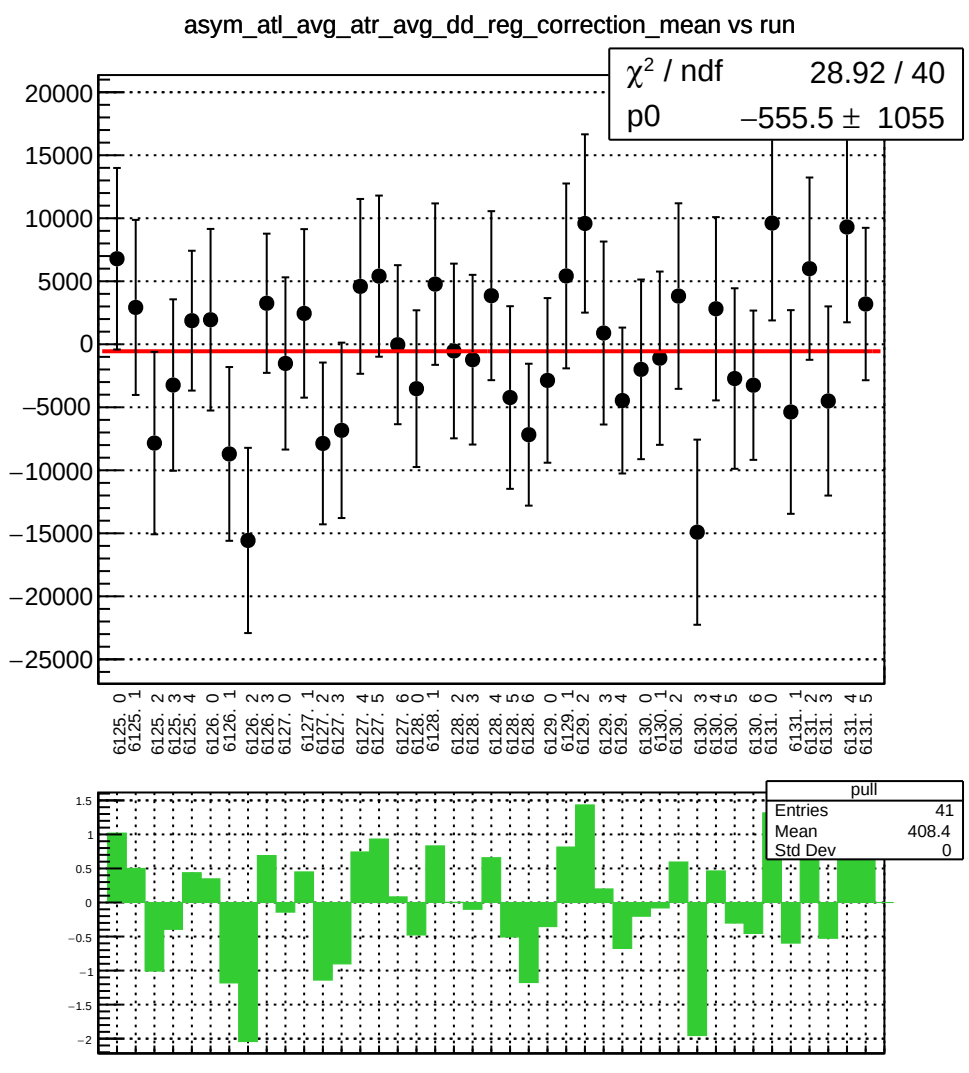

pull1D
Entries 41
Mean 6.417e−05
Std Dev 0.9484

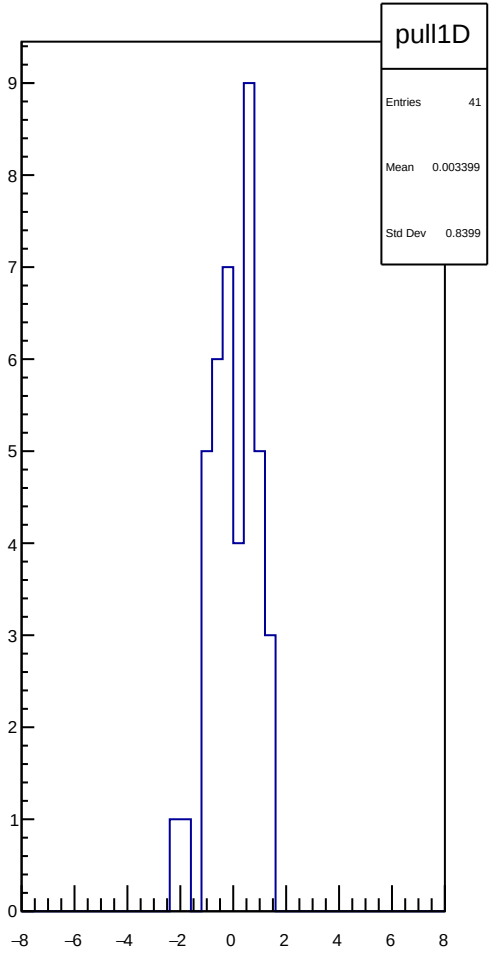

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.158e+05 / 40
p0 1.236e−10 ± 1.611e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

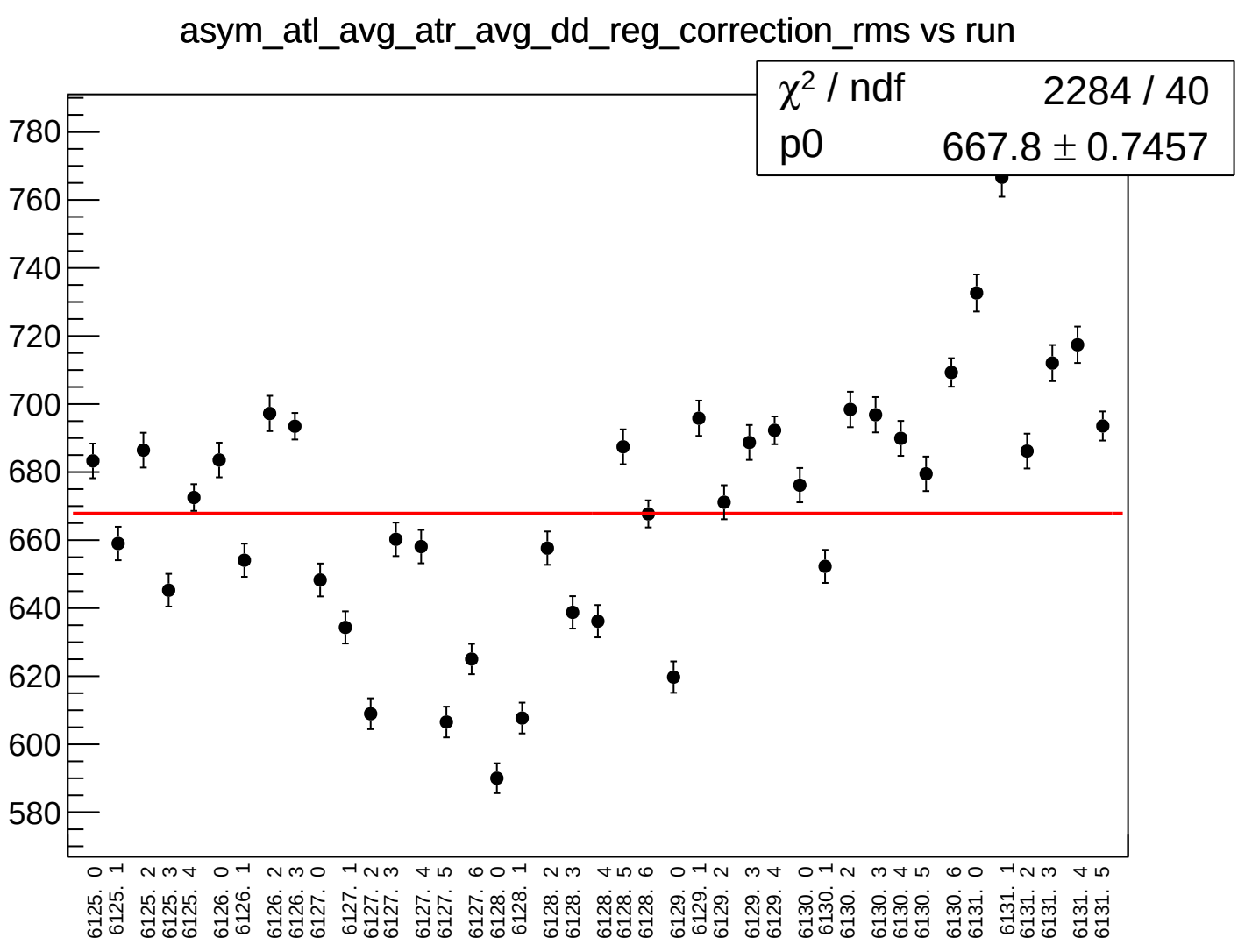

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 39.92 / 40
p0 3483 ± 1927
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 43.61
Std Dev 28.94
2
1
0
−1
−2

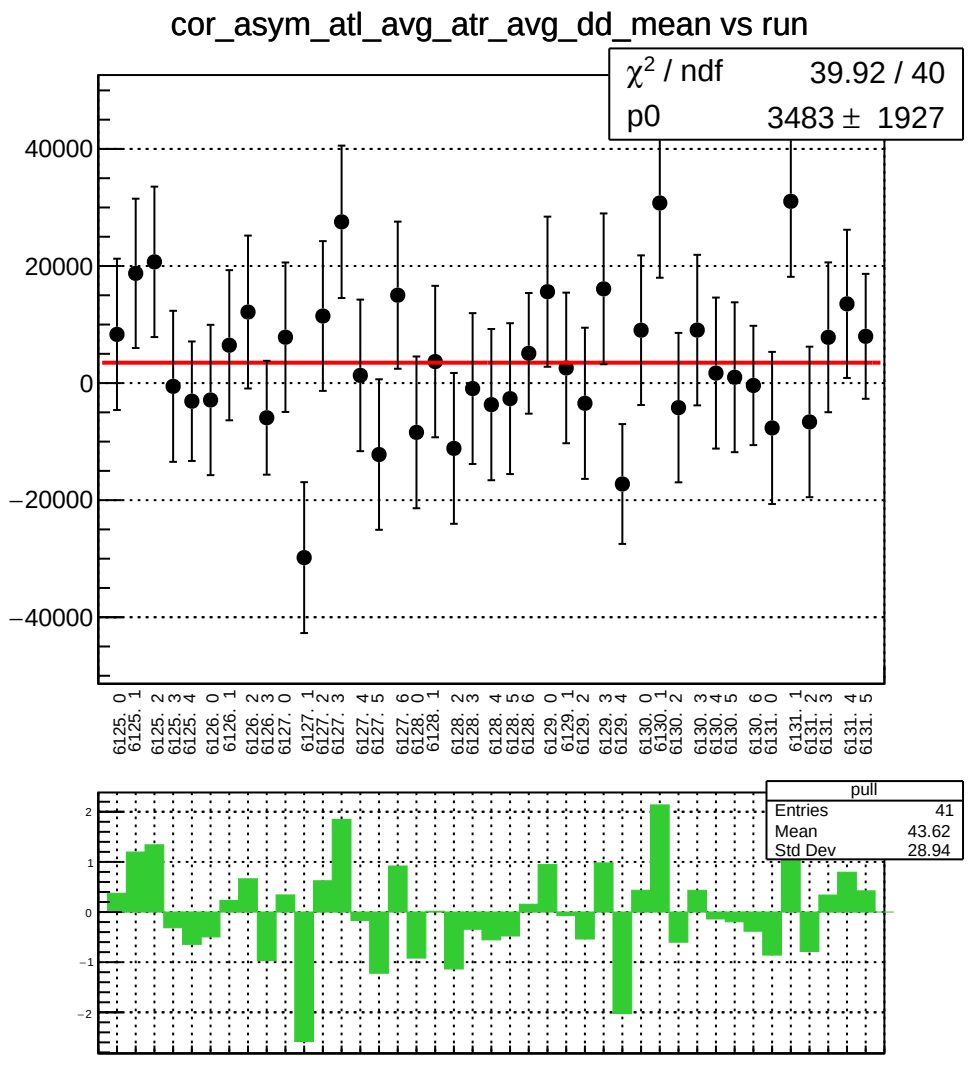

pull1D
Entries 41
Mean 0.02237
Std Dev 0.9865
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

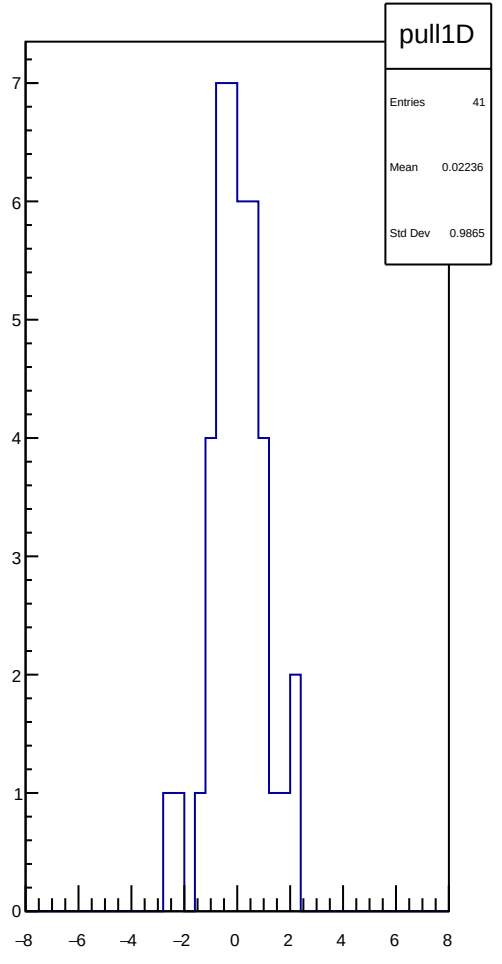

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 36.45 / 40
p0 1222 ± 1.363
1250
1240
1230
1220
1210
1200
1190
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

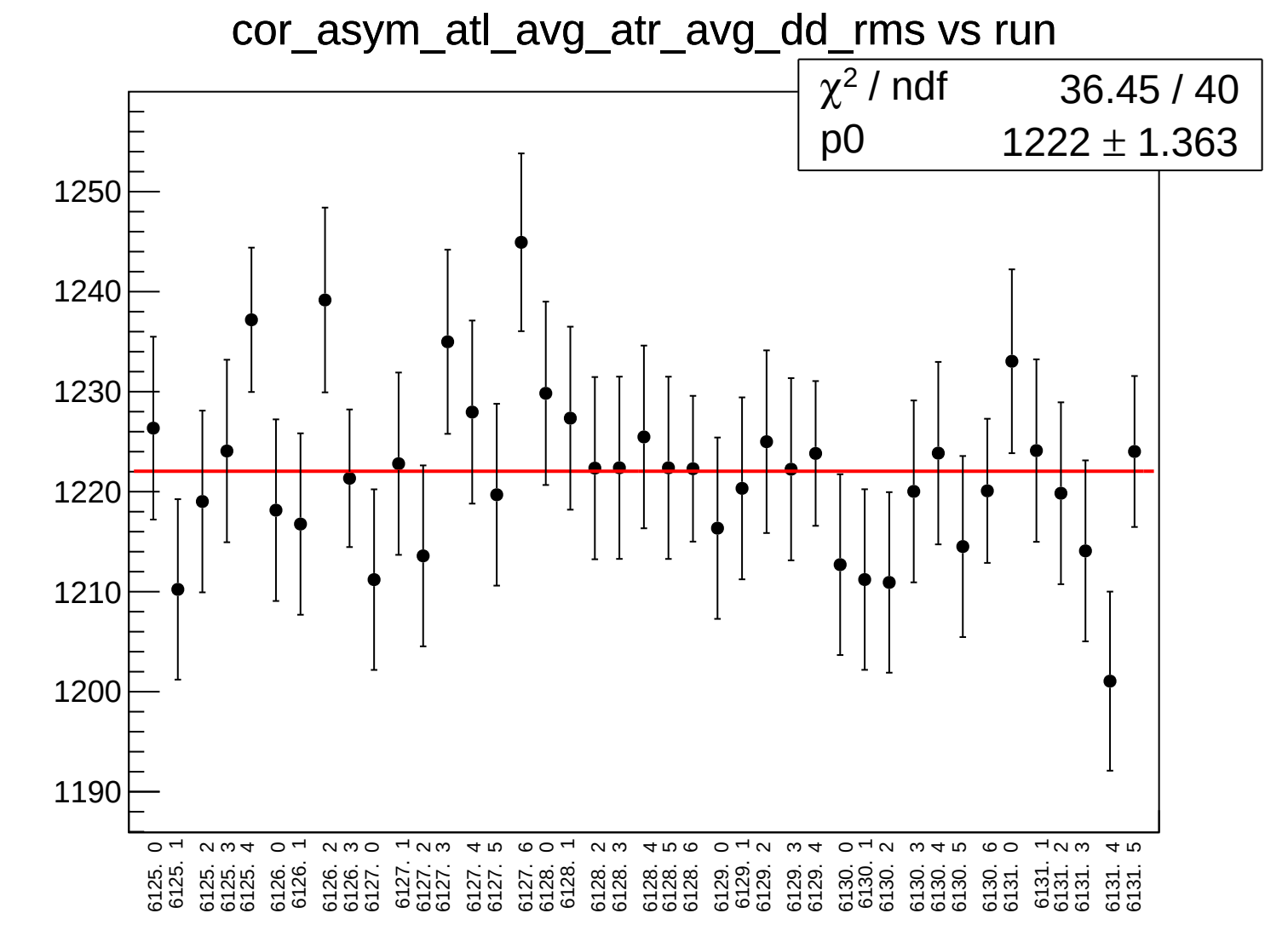

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 28.92 / 40
p0 −555.5 ± 1055
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 408.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

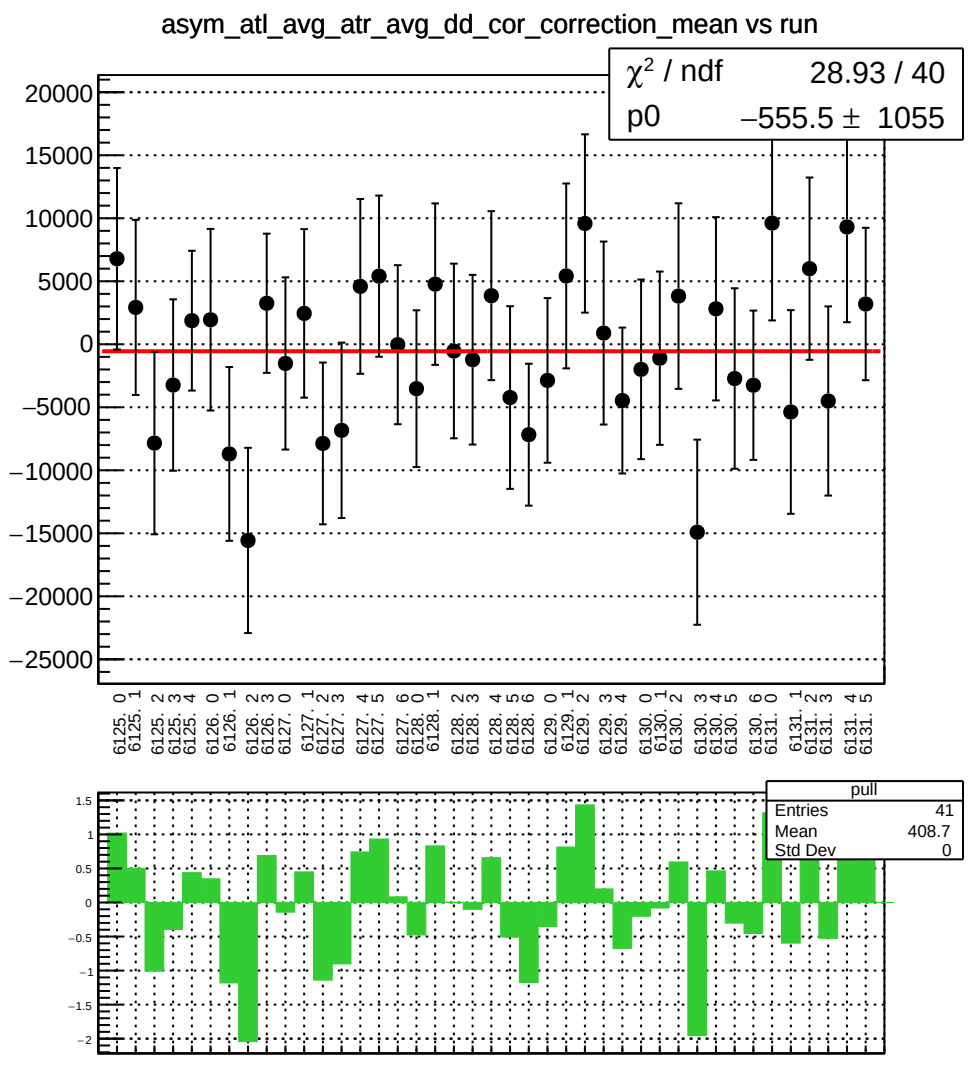

pull1D
Entries 41
Mean 0.003399
Std Dev 0.8399
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

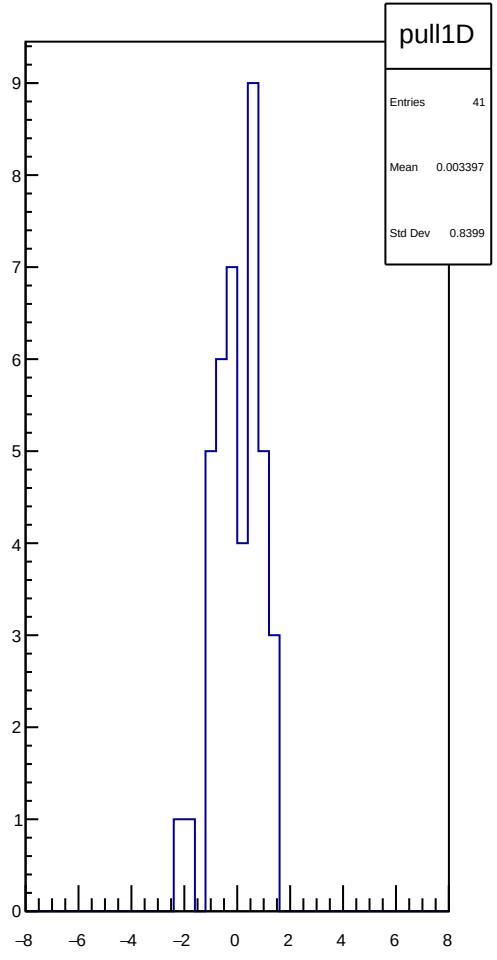

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 2284 / 40
p0 667.8 ± 0.7457
780
760
740
720
700
680
660
640
620
600
580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

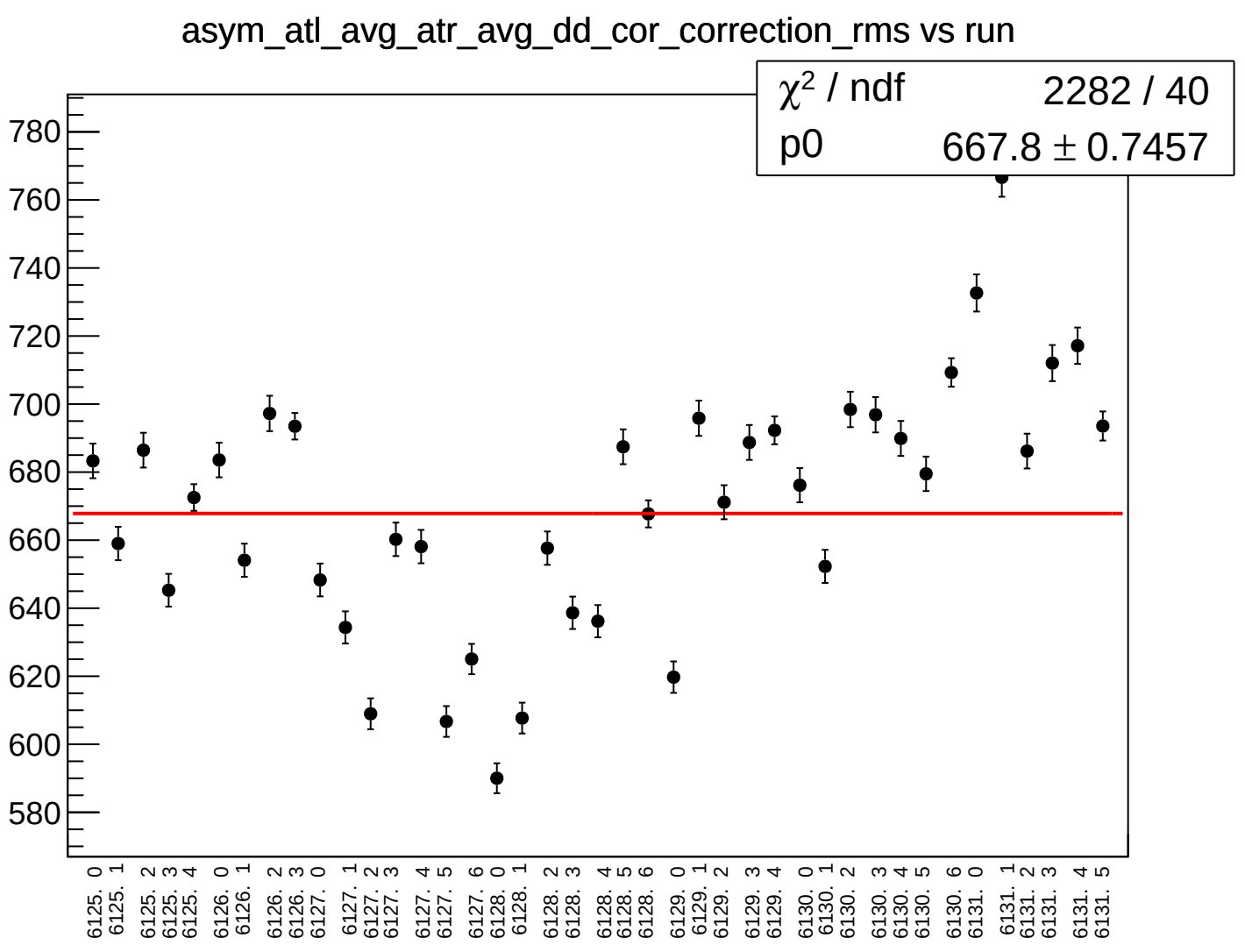

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 39.92 / 40
p0 3483 ± 1927
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 43.62
Std Dev 28.94
2
1
0
−1
−2

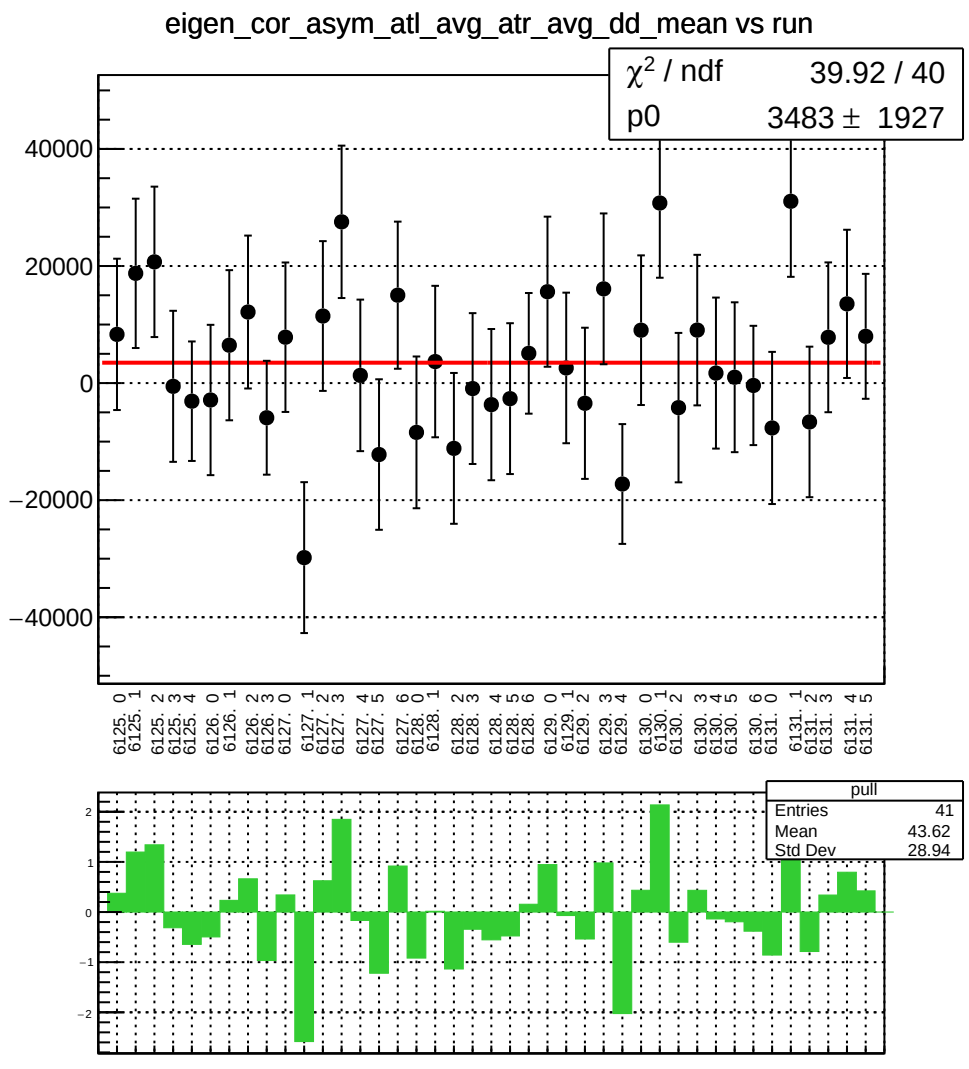

pull1D
Entries 41
Mean 0.02236
Std Dev 0.9865
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

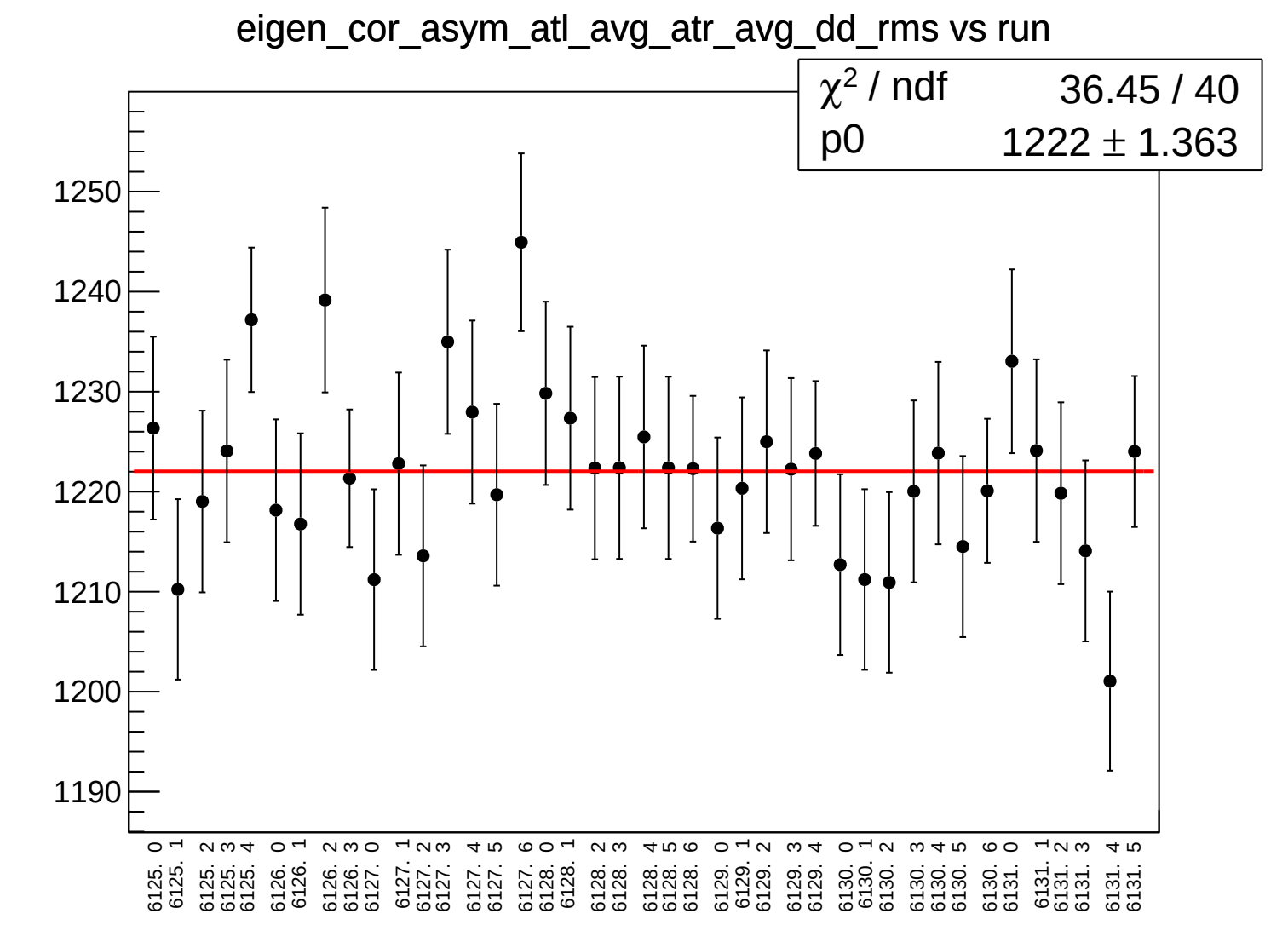

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 36.45 / 40
p0 1222 ± 1.363
1250
1240
1230
1220
1210
1200
1190
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

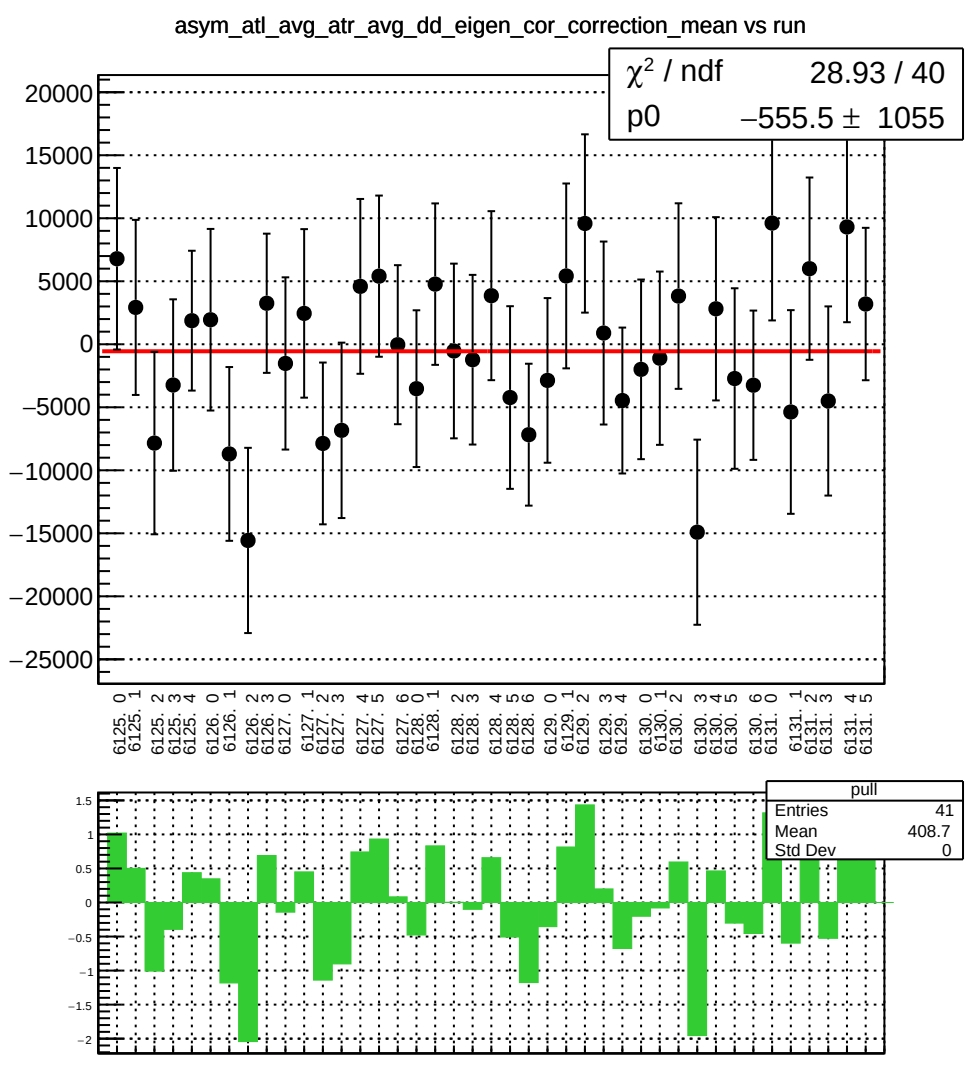

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 28.93 / 40
p0 −555.5 ± 1055
pull
Entries 41
Mean 408.7
Std Dev 0

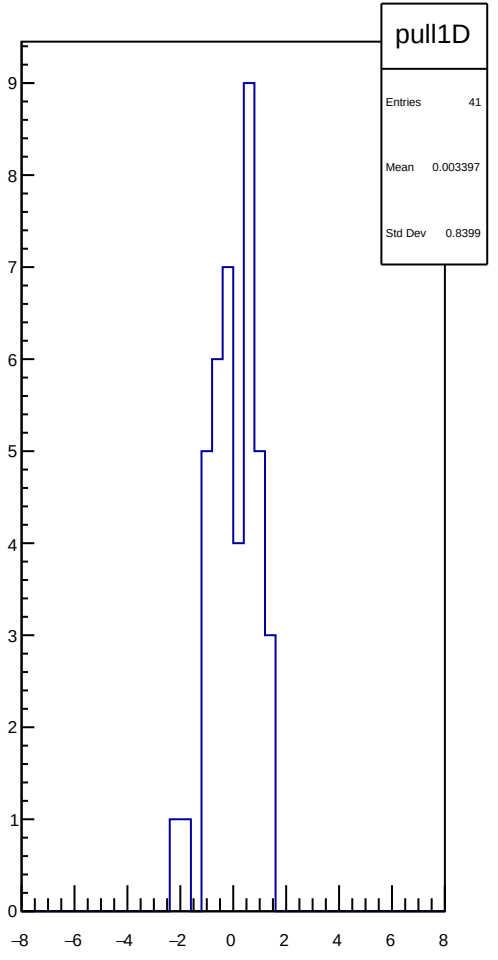

pull1D
Entries 41
Mean 0.003397
Std Dev 0.8399

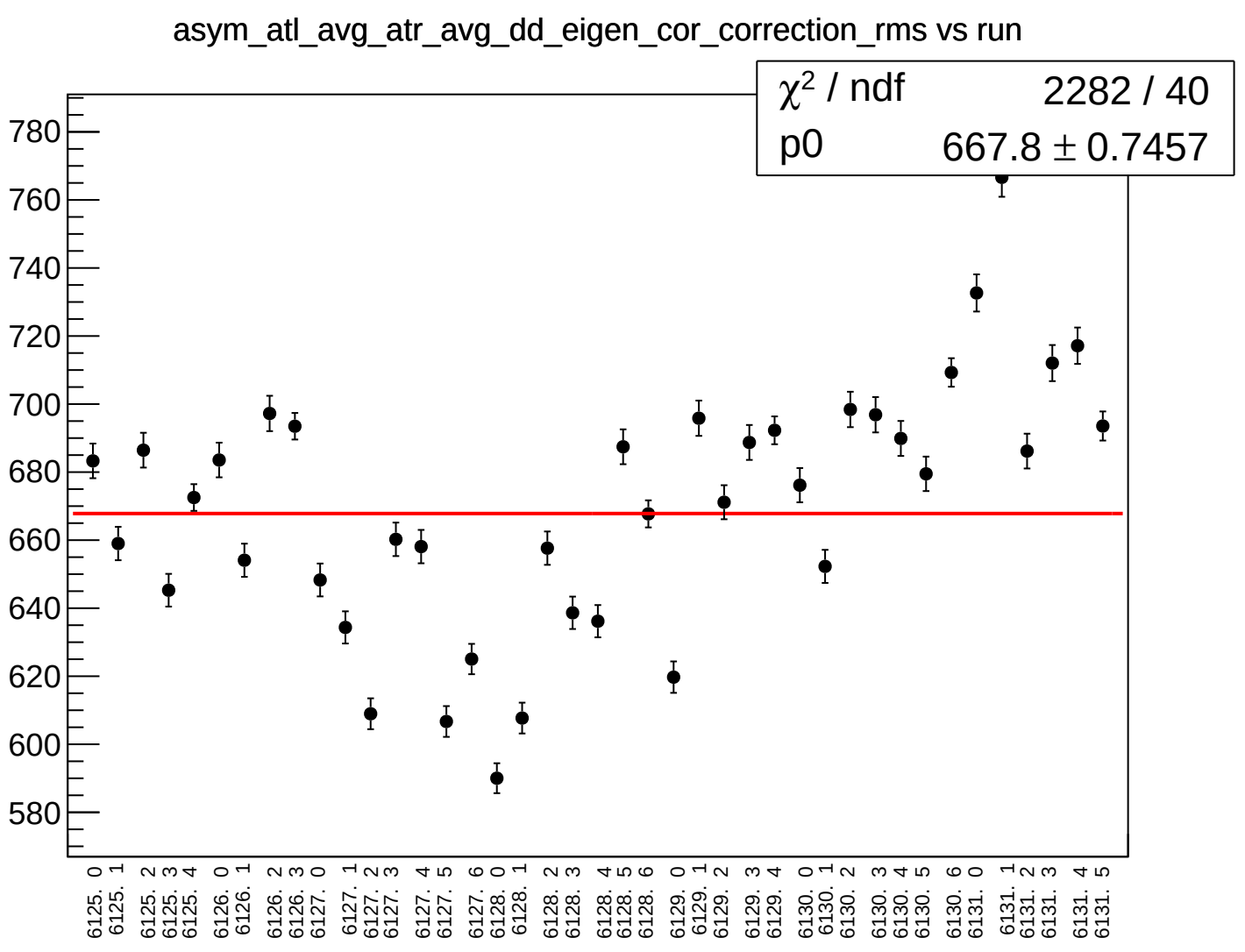

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 2282 / 40
p0 667.8 ± 0.7457
780
760
740
720
700
680
660
640
620
600
580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

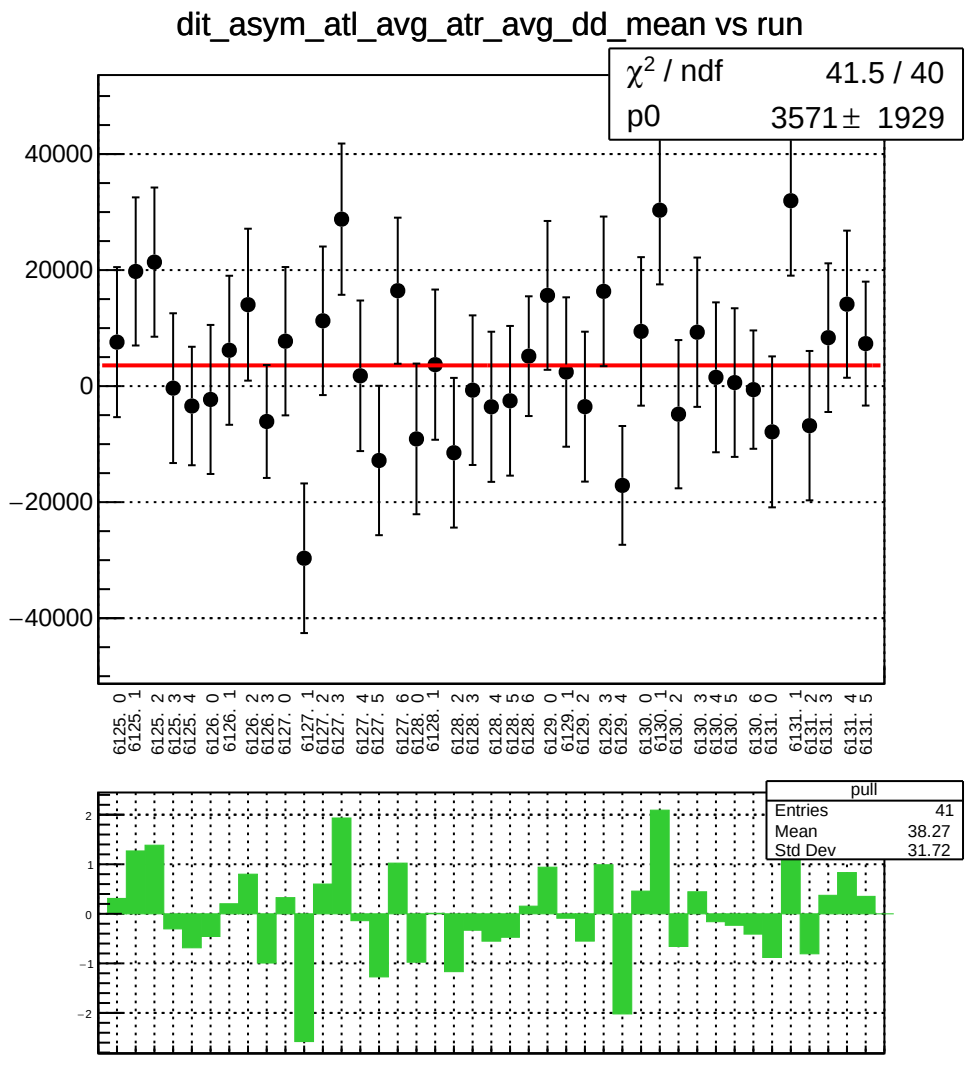

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 39.92 / 40
p0 3483 ± 1927
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 43.62
Std Dev 28.94
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.02236
Std Dev 0.9865
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

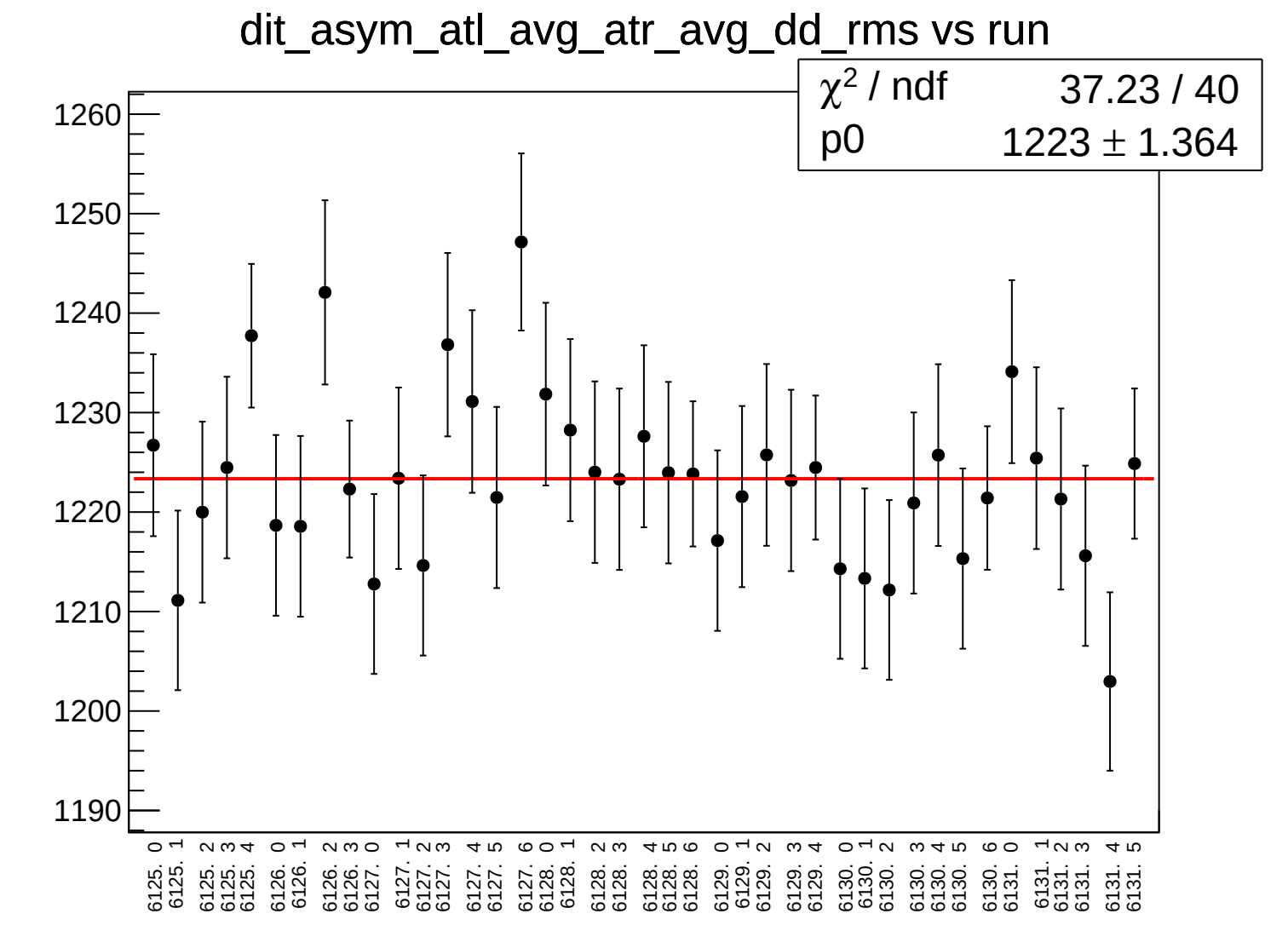

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 36.45 / 40
p0 1222 ± 1.363
1250
1240
1230
1220
1210
1200
1190
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

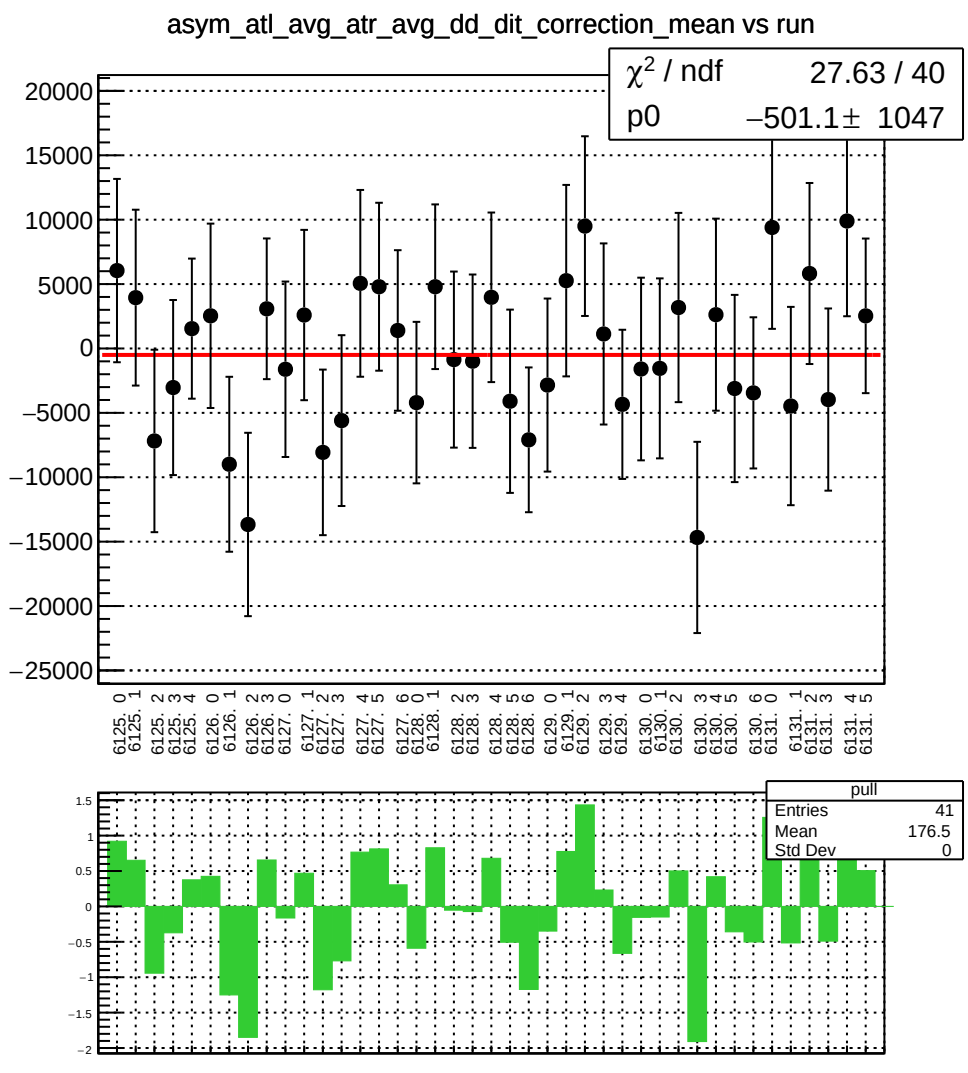

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 28.93 / 40
p0 −555.5 ± 1055
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 408.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

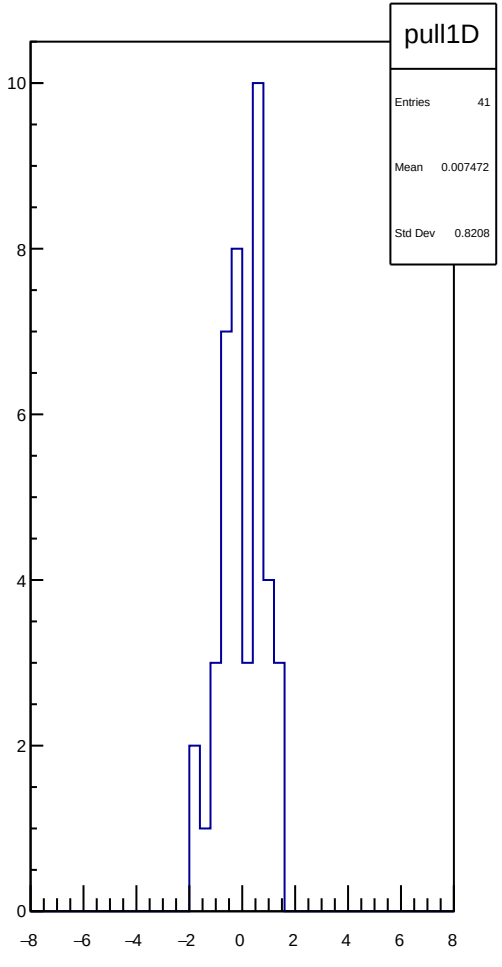

pull1D
Entries 41
Mean 0.003397
Std Dev 0.8399
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

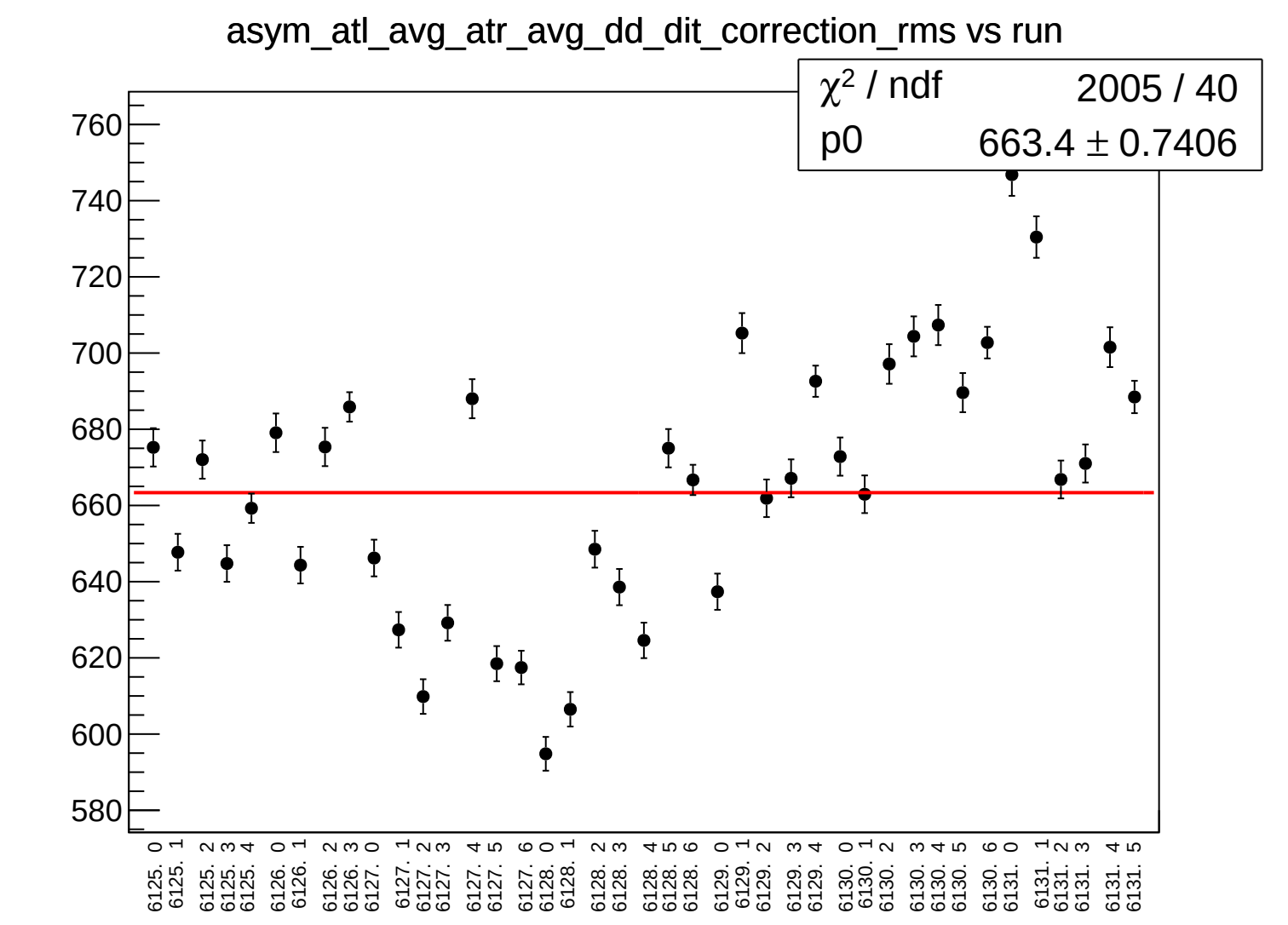

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2282 / 40
p0 667.8 ± 0.7457
780
760
740
720
700
680
660
640
620
600
580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

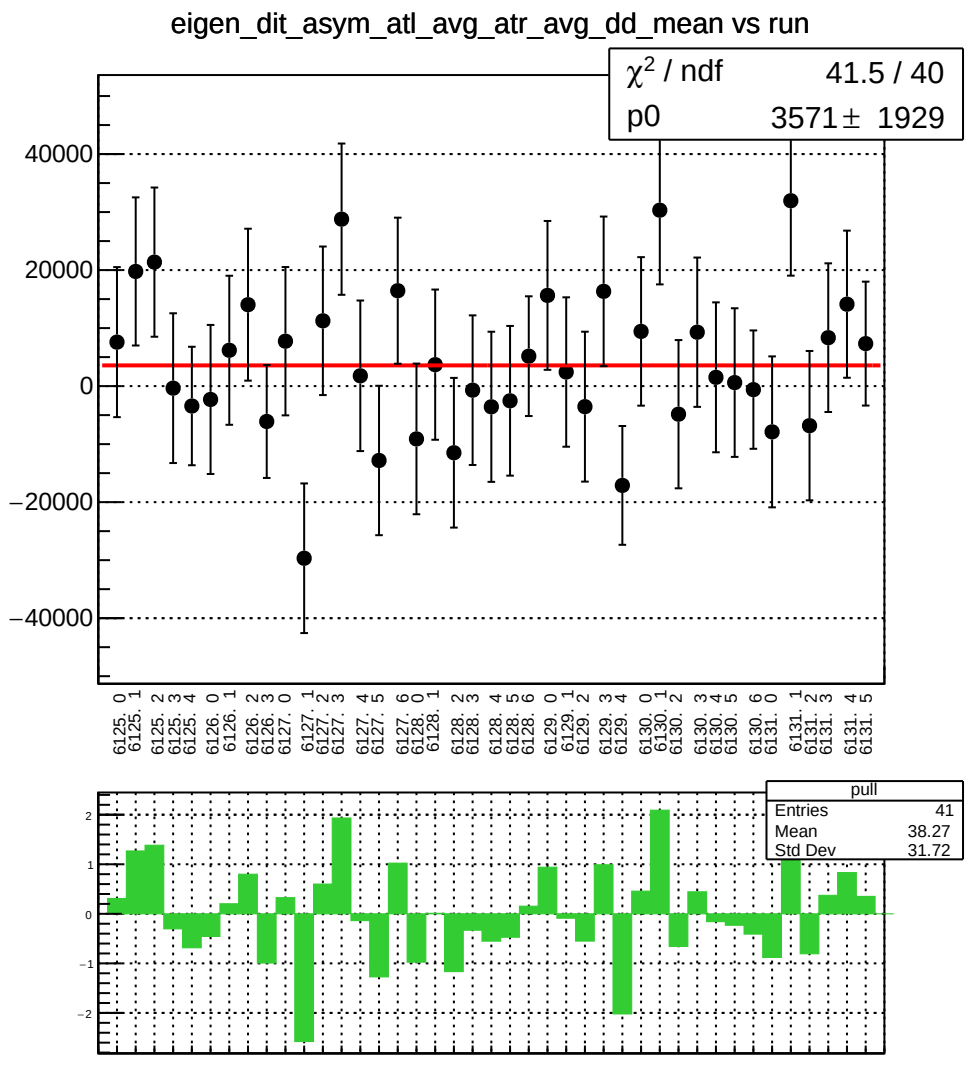

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 41.5 / 40
p0 3571 ± 1929
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 38.27
Std Dev 31.72
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.02345
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

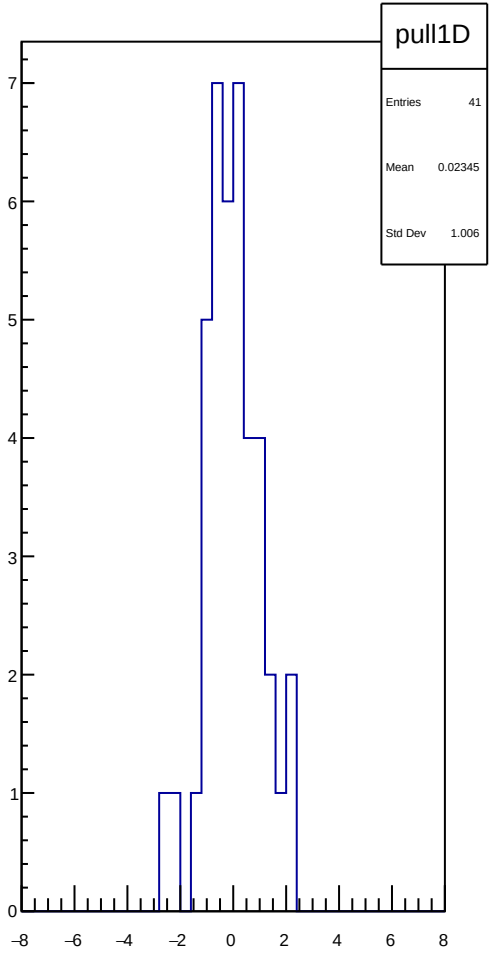

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 37.23 / 40
p0 1223 ± 1.364
1260
1250
1240
1230
1220
1210
1200
1190
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

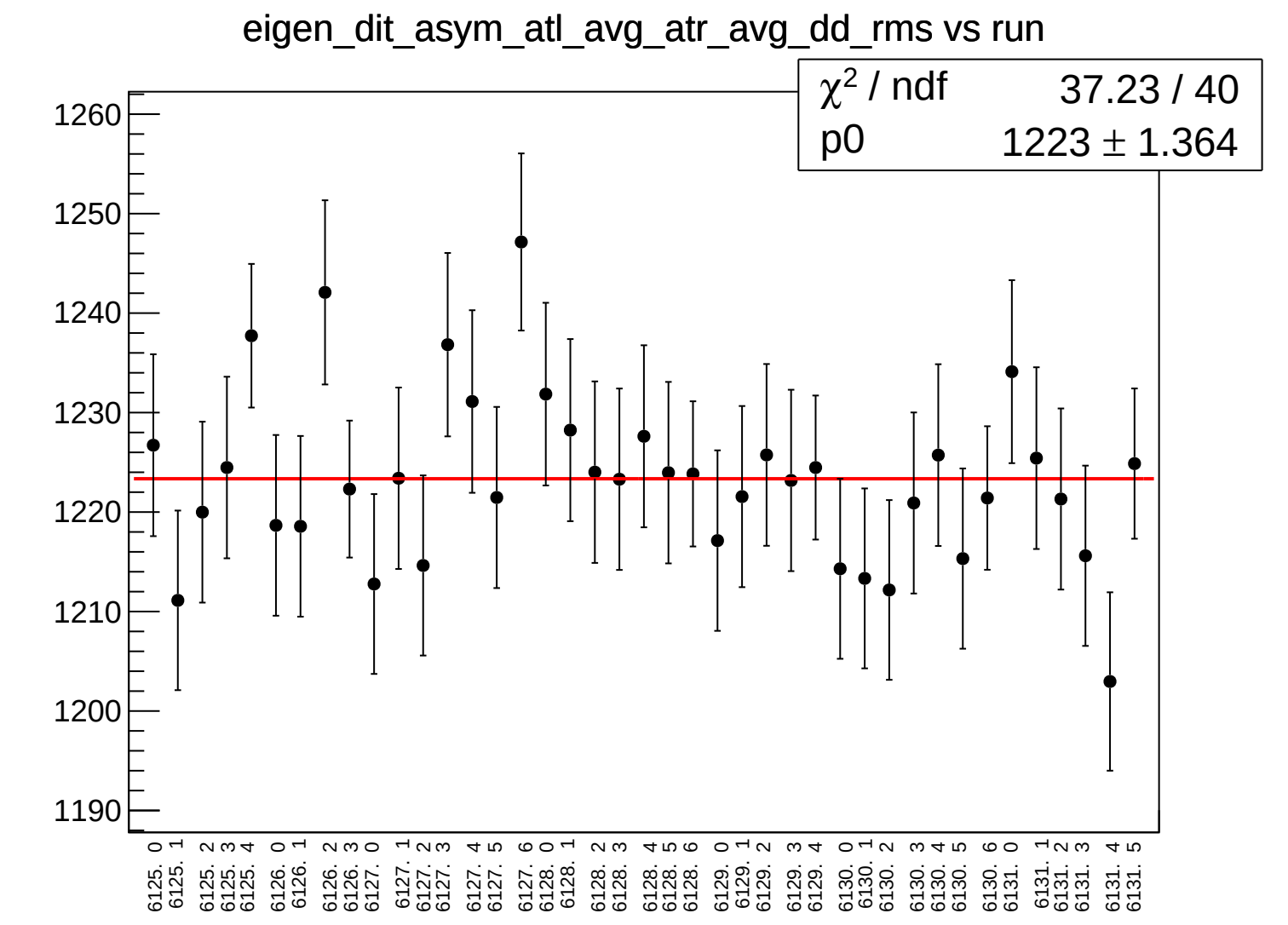

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 27.63 / 40
p0 −501.1± 1047
pull
Entries 41
Mean 176.5
Std Dev 0

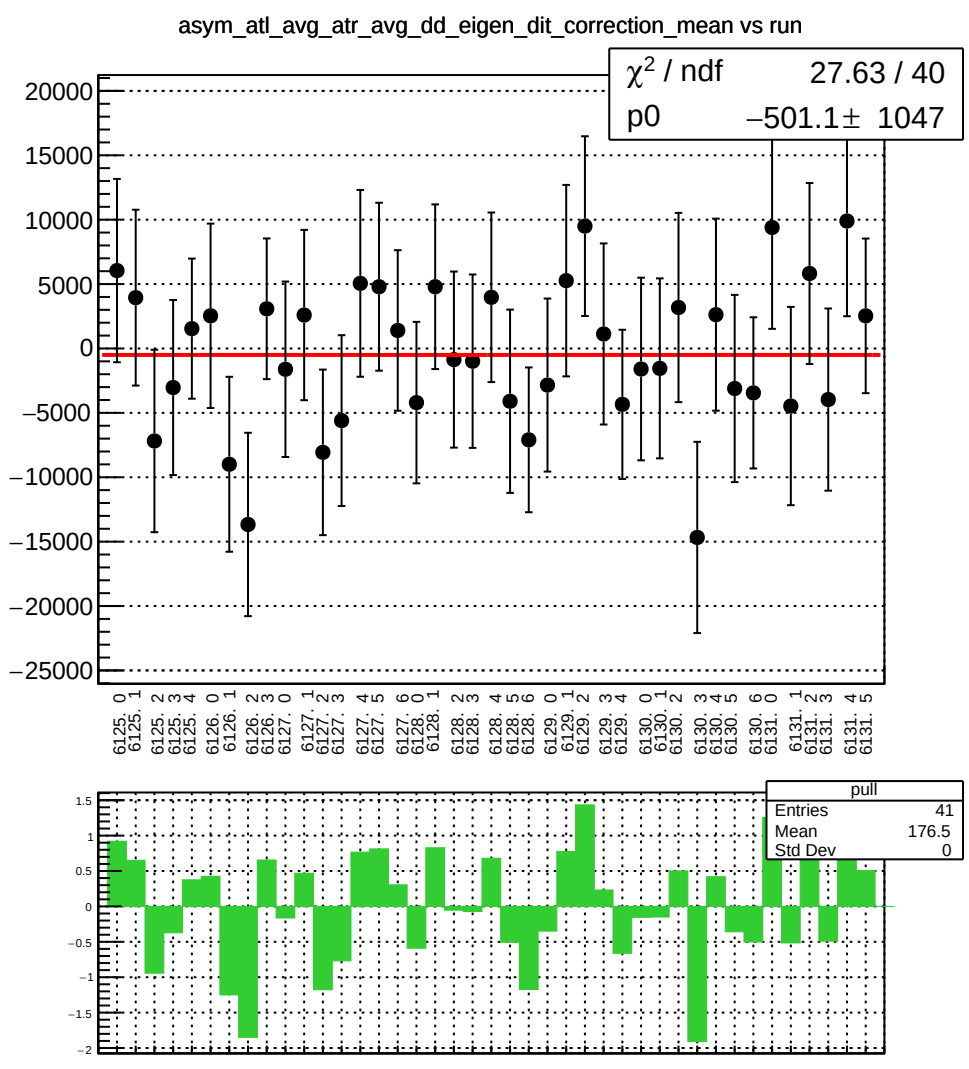

pull1D
Entries 41
Mean 0.007472
Std Dev 0.8208

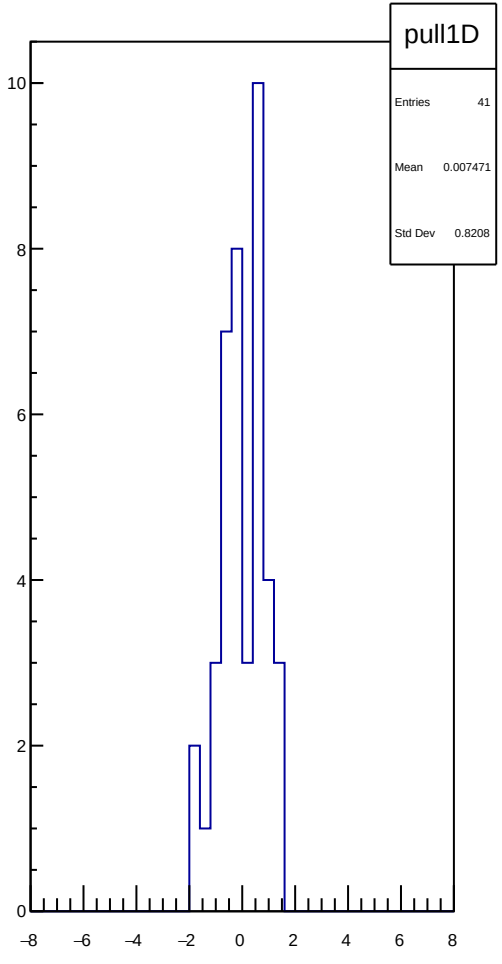

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 2005 / 40
p0 663.4 ± 0.7406
760
740
720
700
680
660
640
620
600
580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

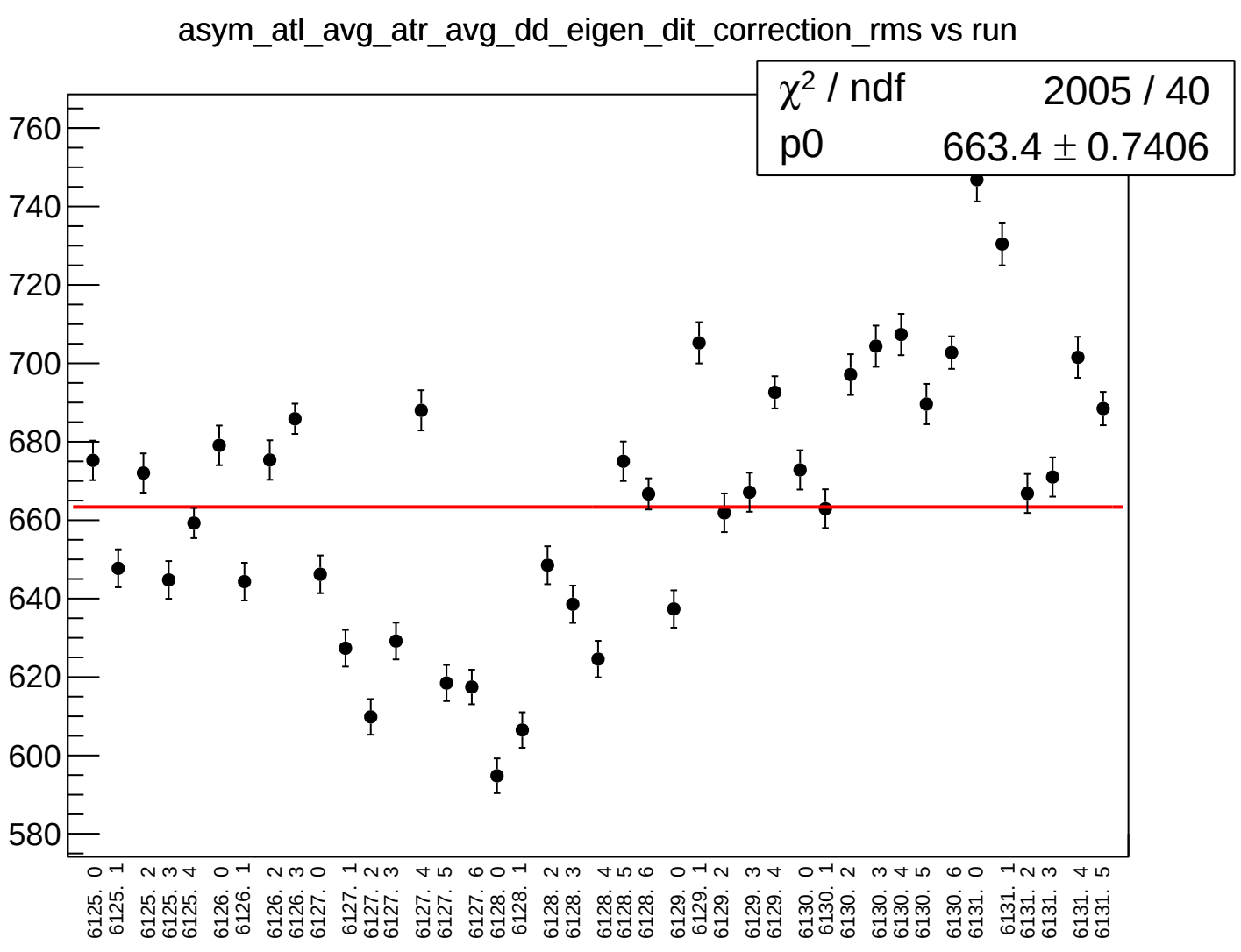

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 41.5 / 40
p0 3571 ± 1929
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 38.27
Std Dev 31.72
2
1
0
−1
−2

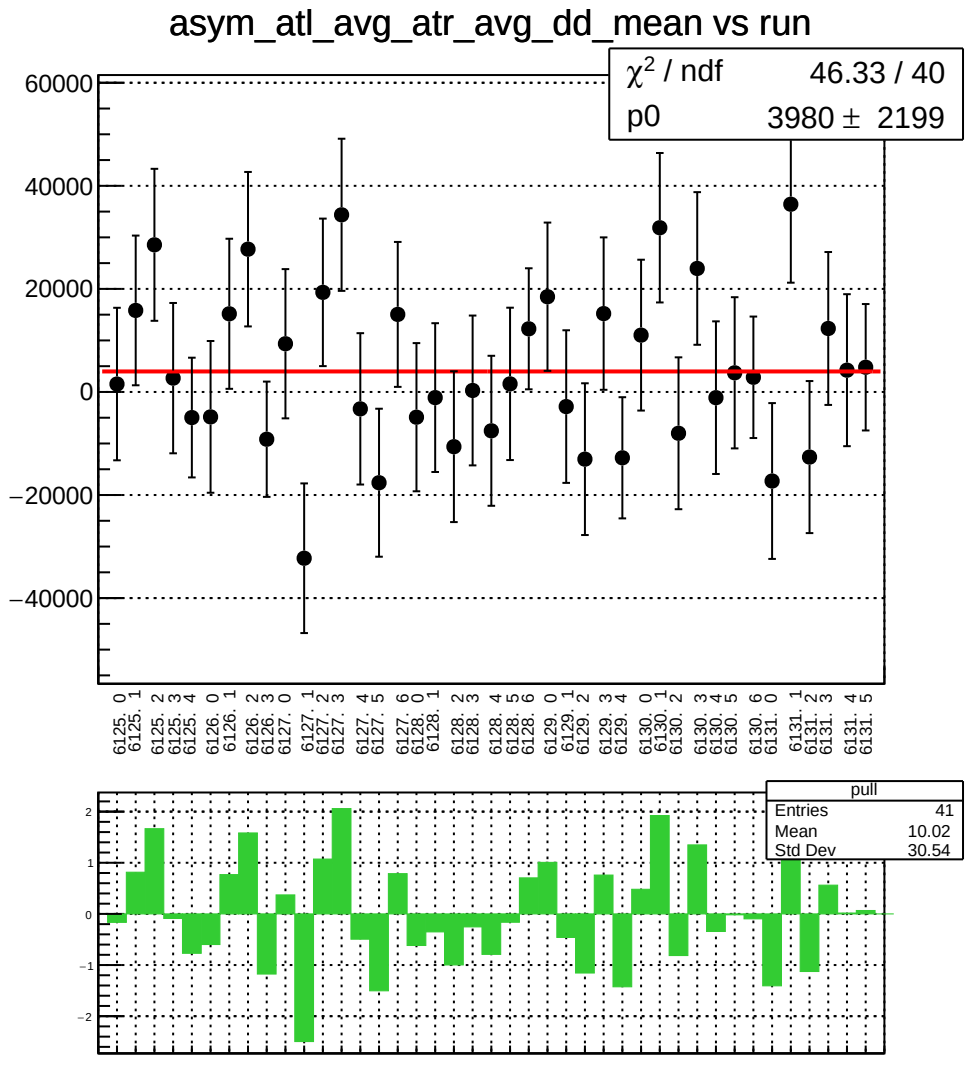

pull1D
Entries 41
Mean 0.02345
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

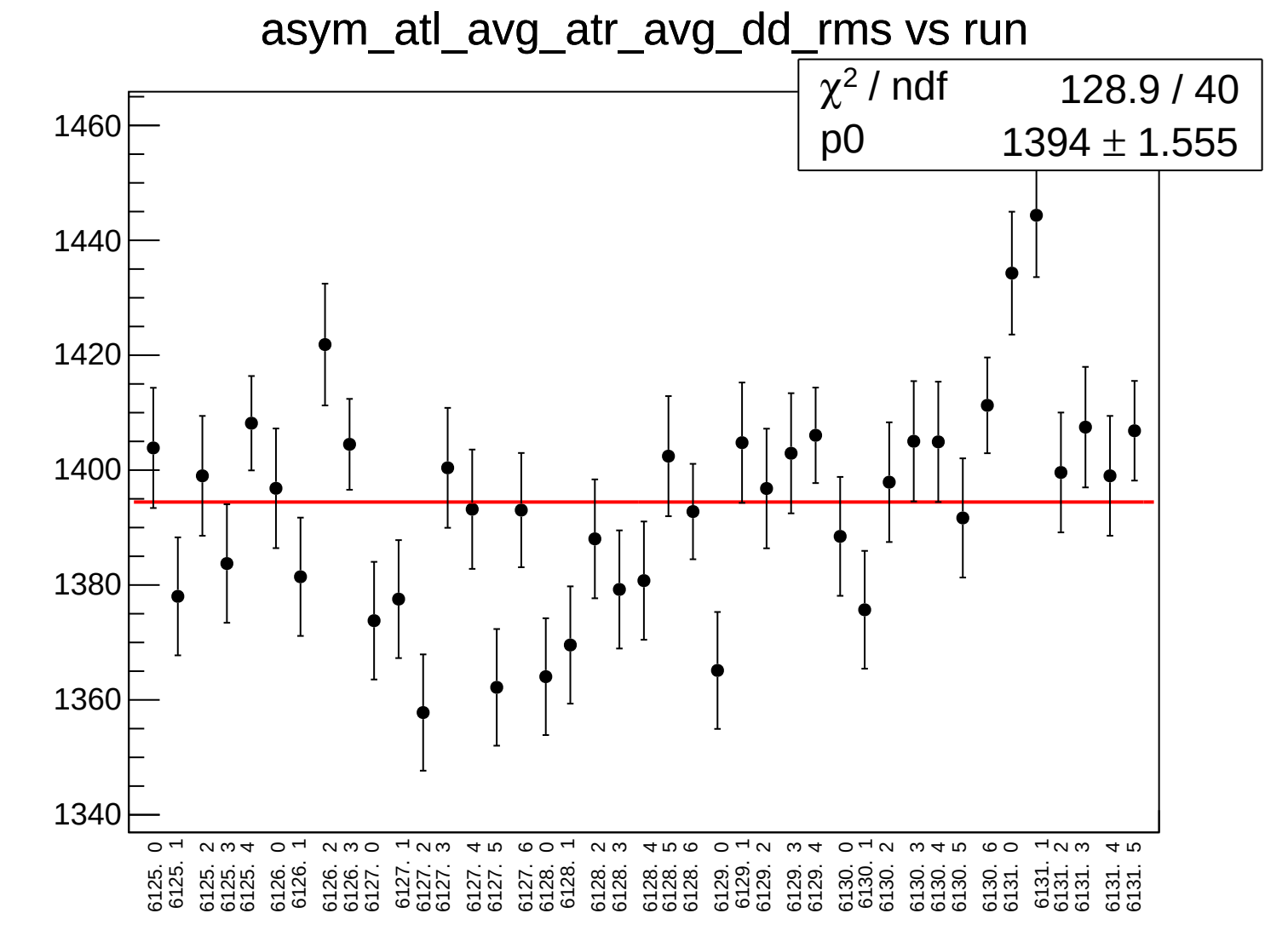

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 37.23 / 40
p0 1223 ± 1.364
1260
1250
1240
1230
1220
1210
1200
1190
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

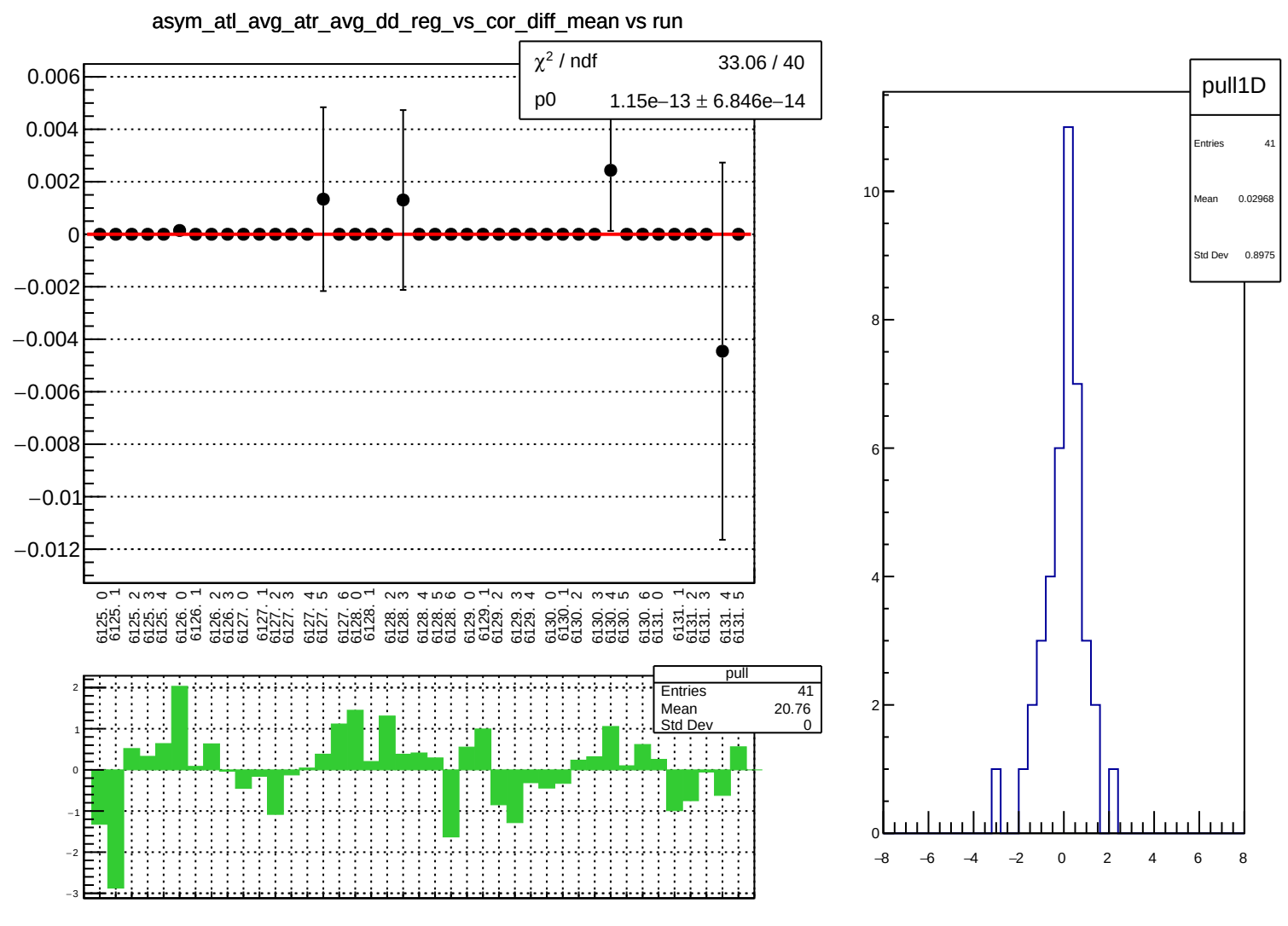

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 27.63 / 40
p0 −501.1± 1047
pull
Entries 41
Mean 176.5
Std Dev 0

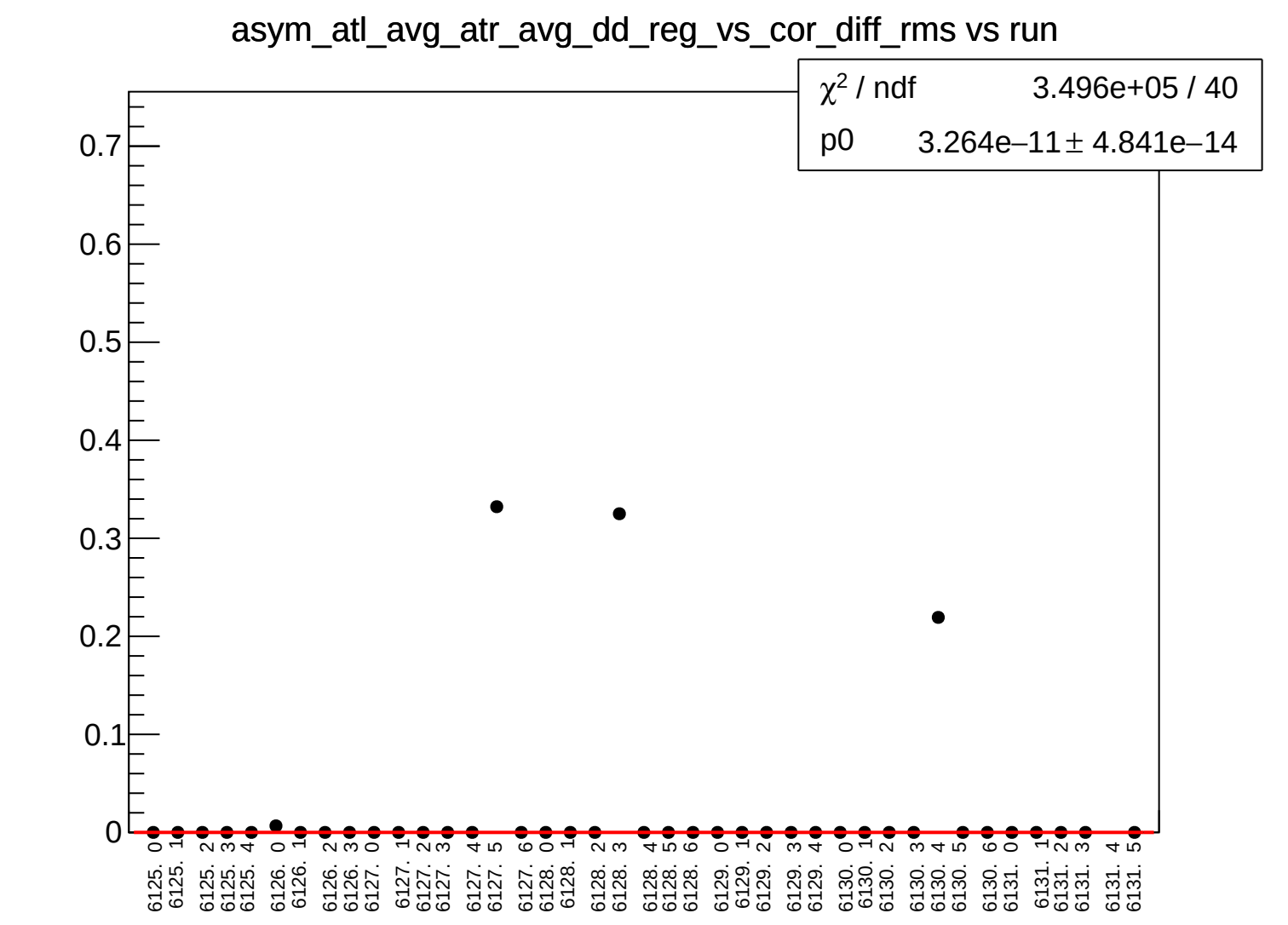

pull1D
Entries 41
Mean 0.007471
Std Dev 0.8208


asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2005 / 40
p0 663.4 ± 0.7406
760
740
720
700
680
660
640
620
600
580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

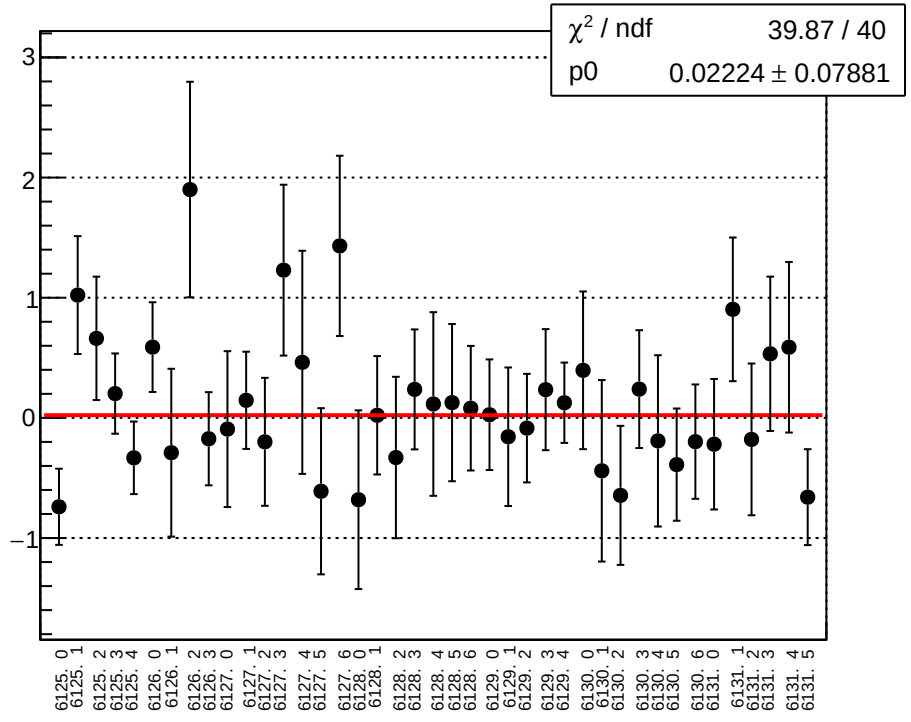

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 46.33 / 40
p0 3980 ± 2199
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 10.02
Std Dev 30.54
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01979
Std Dev 1.063
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

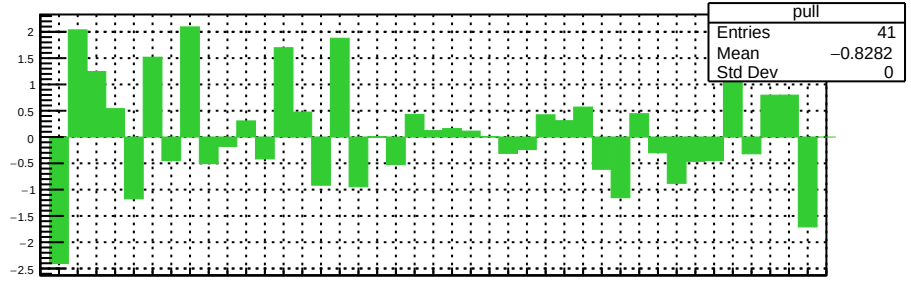

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 128.9 / 40
p0 1394 ± 1.555
1460
1440
1420
1400
1380
1360
1340
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

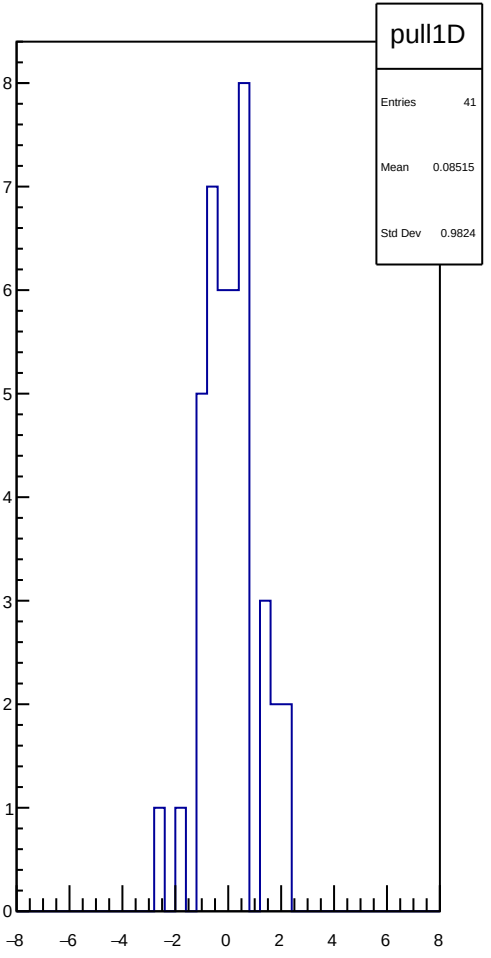

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 33.06 / 40
p0 1.15e−13 ± 6.846e−14
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
−0.012
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 20.76
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.02968
Std Dev 0.8975
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

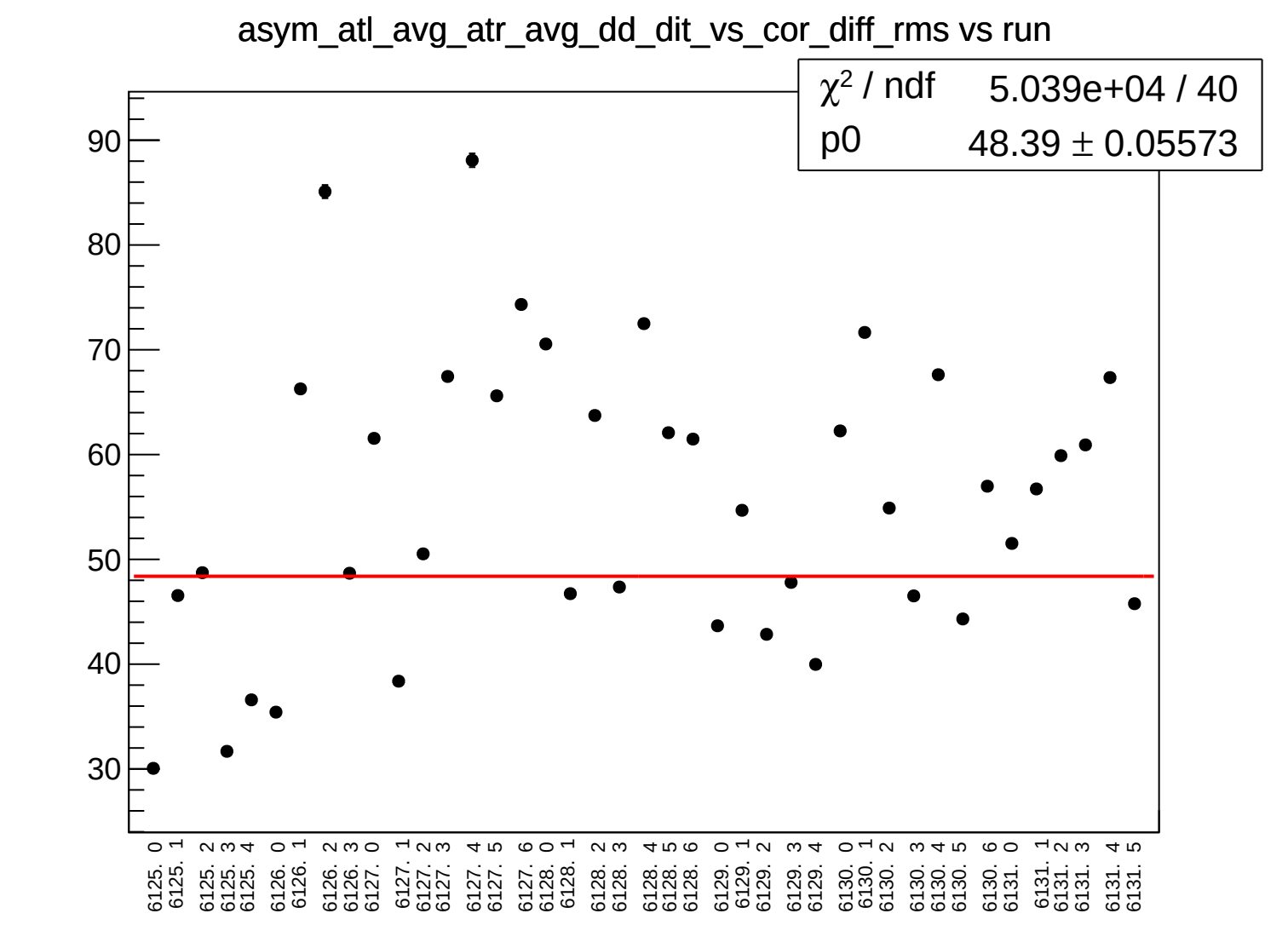

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.496e+05 / 40
p0 3.264e−11 ± 4.841e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

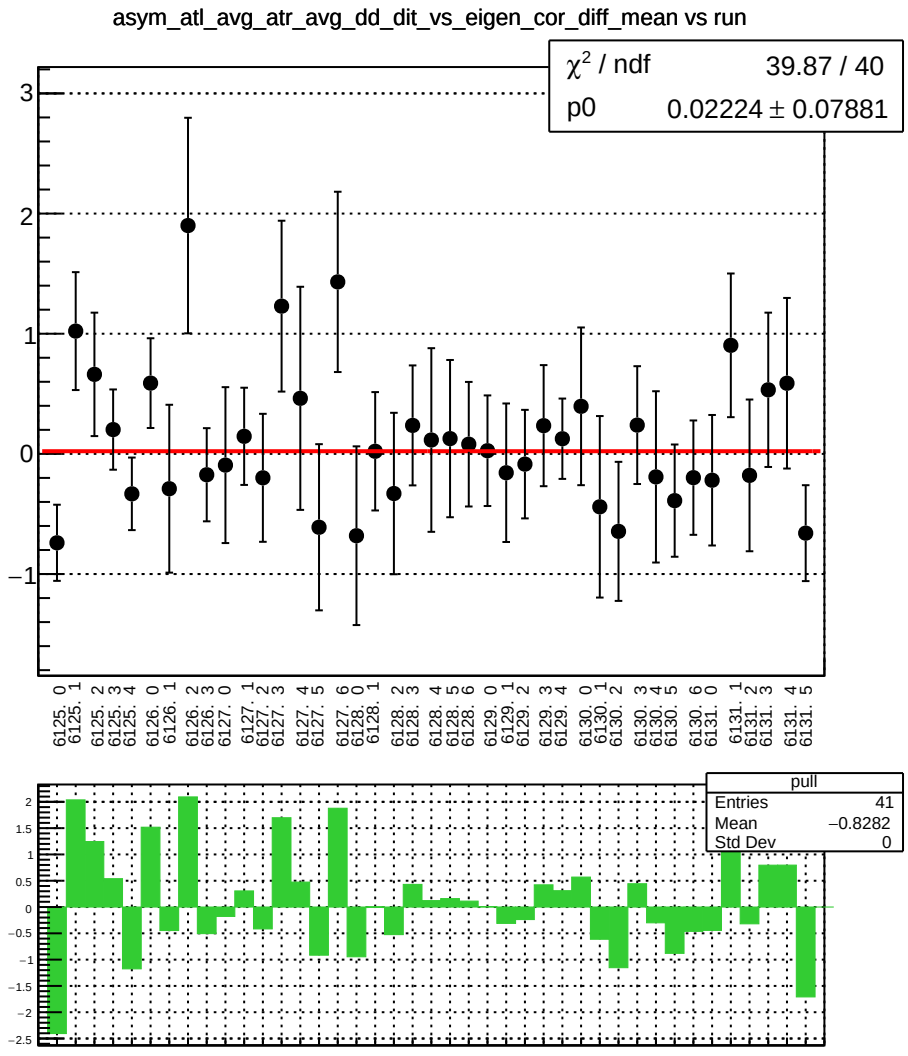
asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run

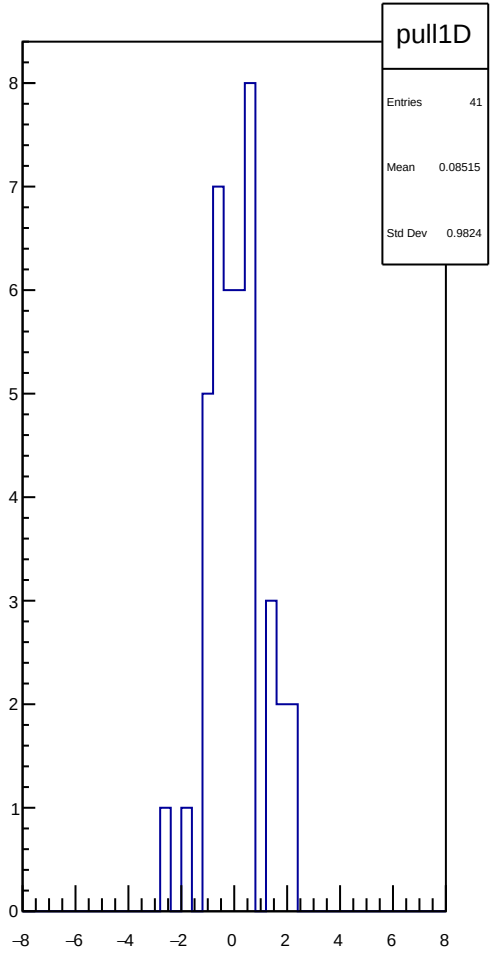


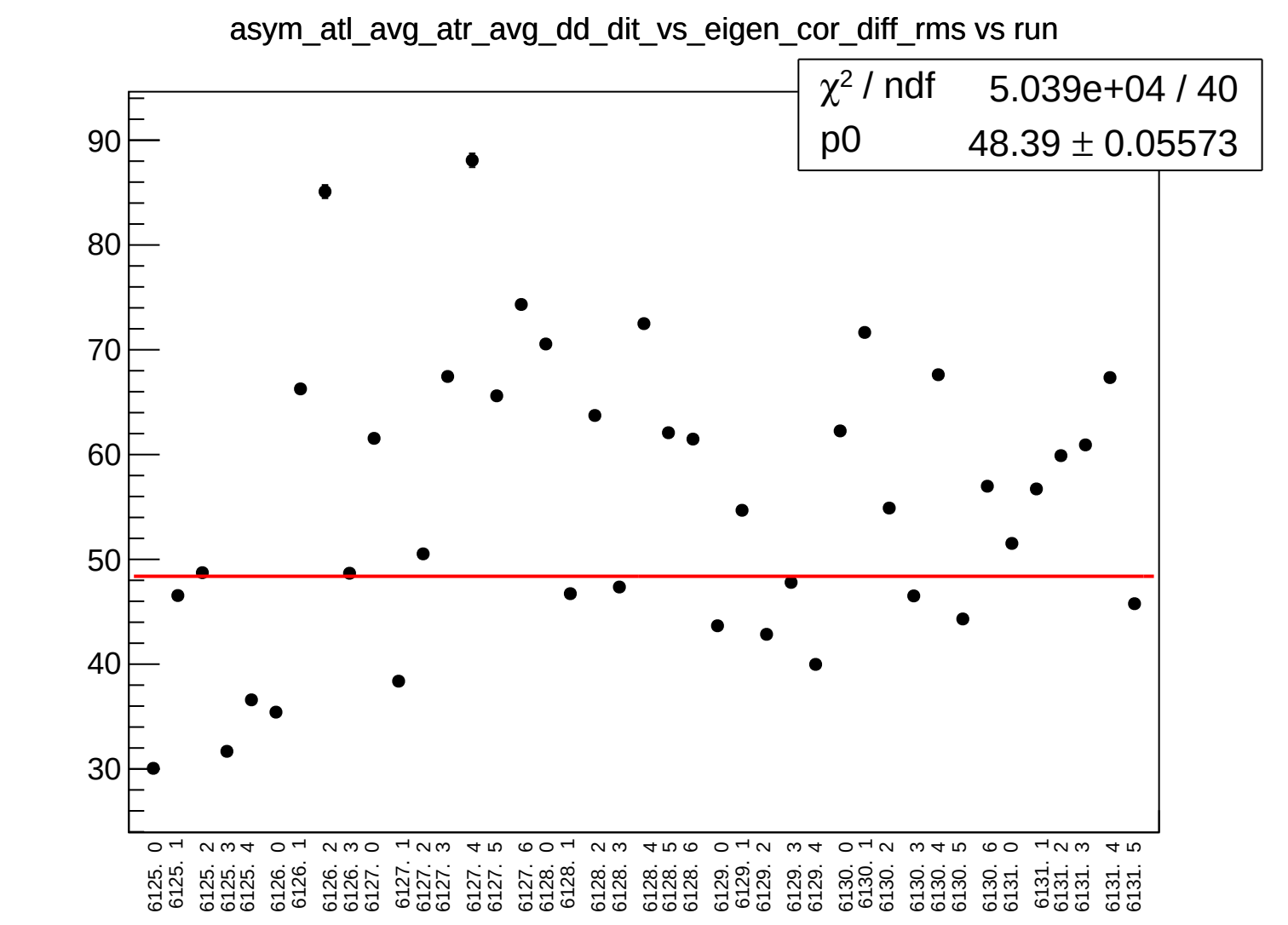


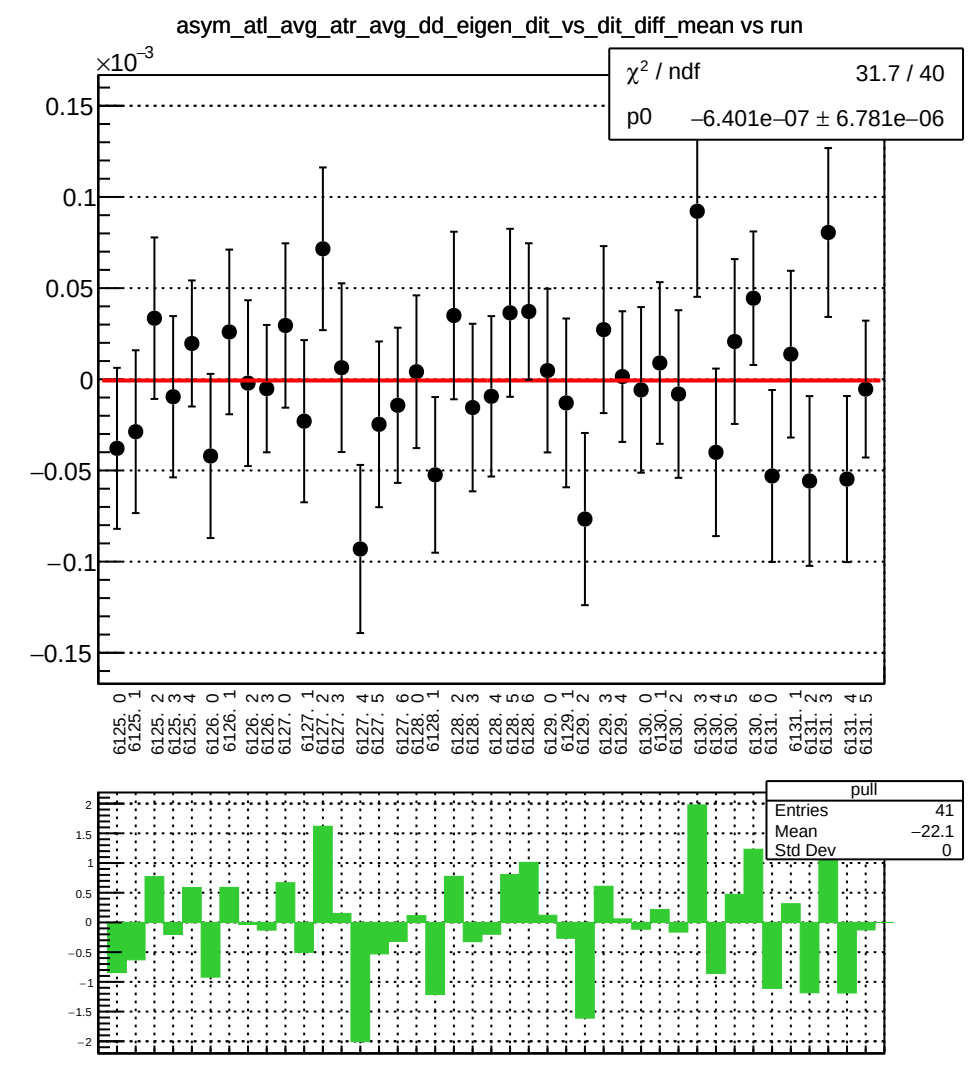


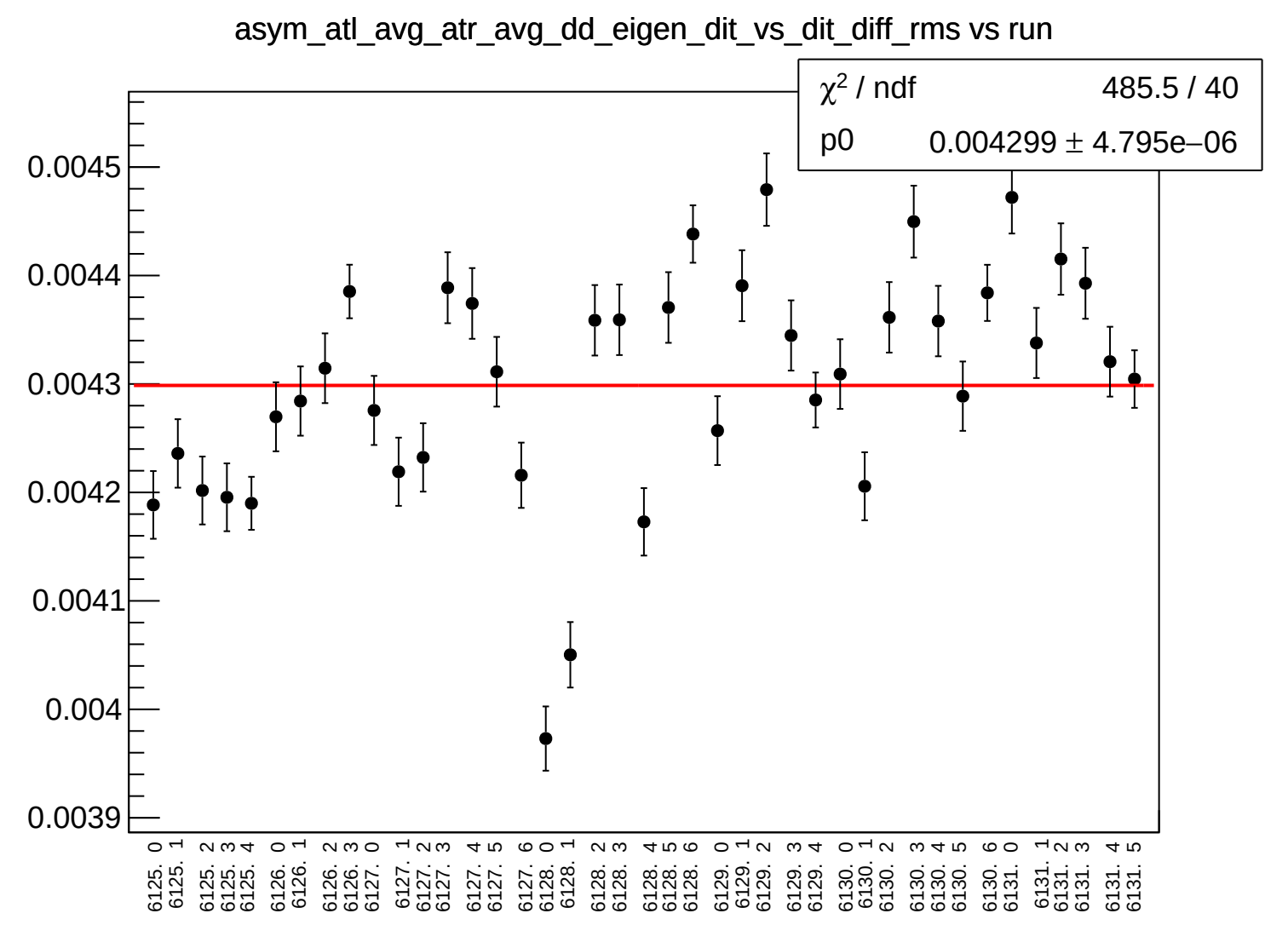

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.039e+04 / 40
p0 48.39 ± 0.05573
90
80
70
60
50
40
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

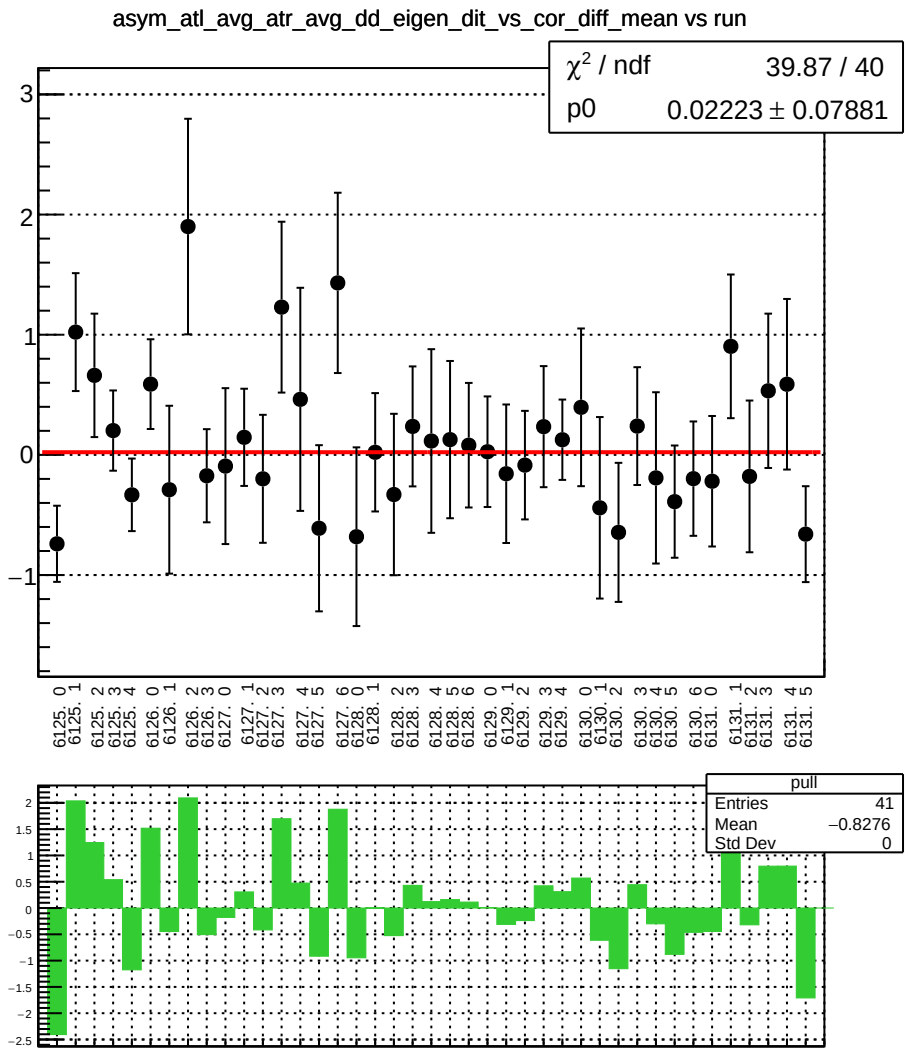

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.87 / 40
p0 0.02224 ± 0.07881
pull
Entries 41
Mean −0.8282
Std Dev 0

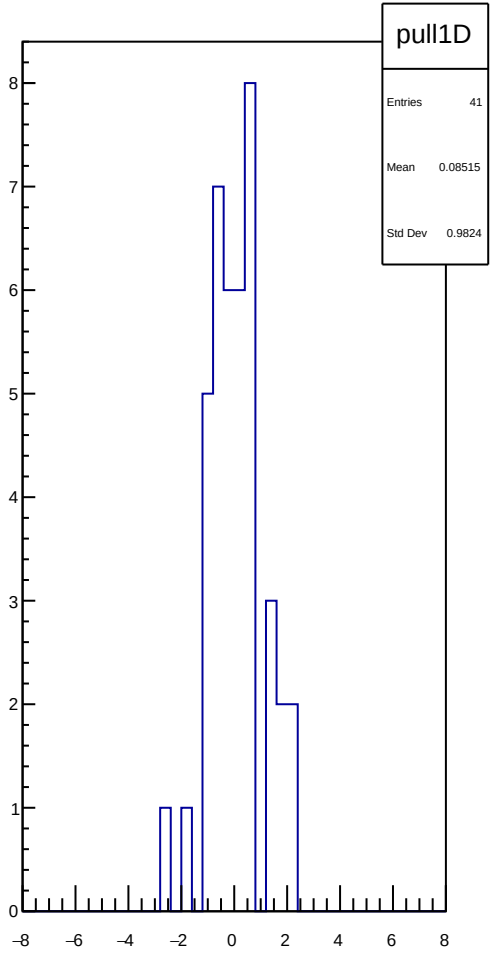

pull1D
Entries 41
Mean 0.08515
Std Dev 0.9824

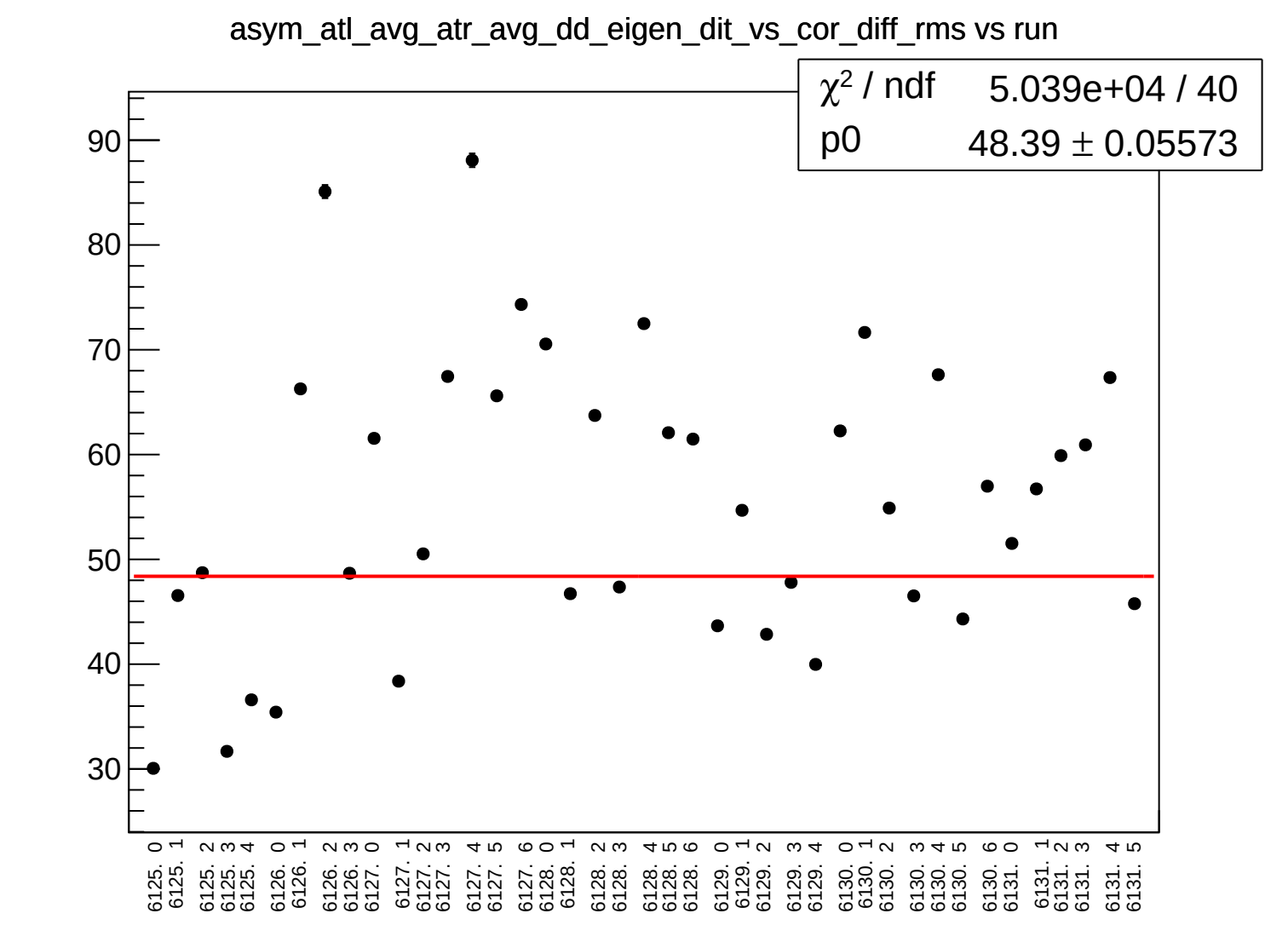

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.039e+04 / 40
p0 48.39 ± 0.05573
90
80
70
60
50
40
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

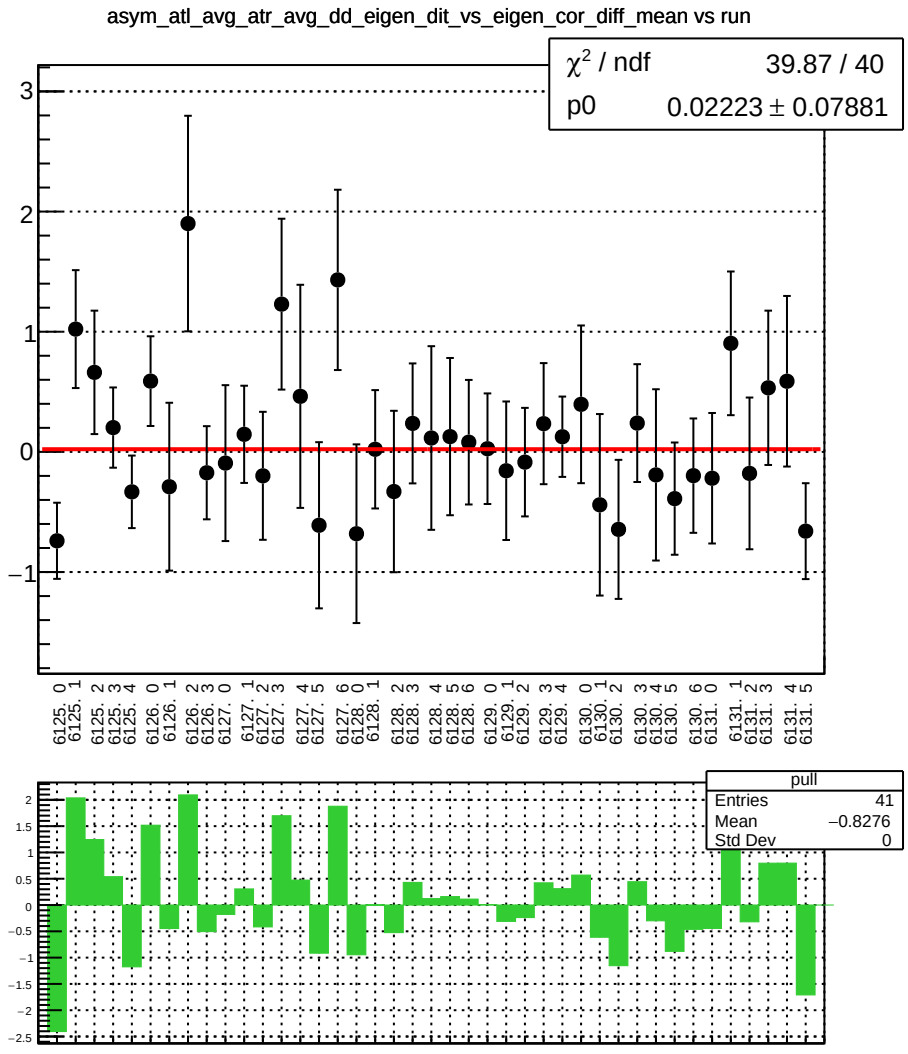

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 31.7 / 40
p0 −6.401e−07 ± 6.781e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −22.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.01503
Std Dev 0.8792
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

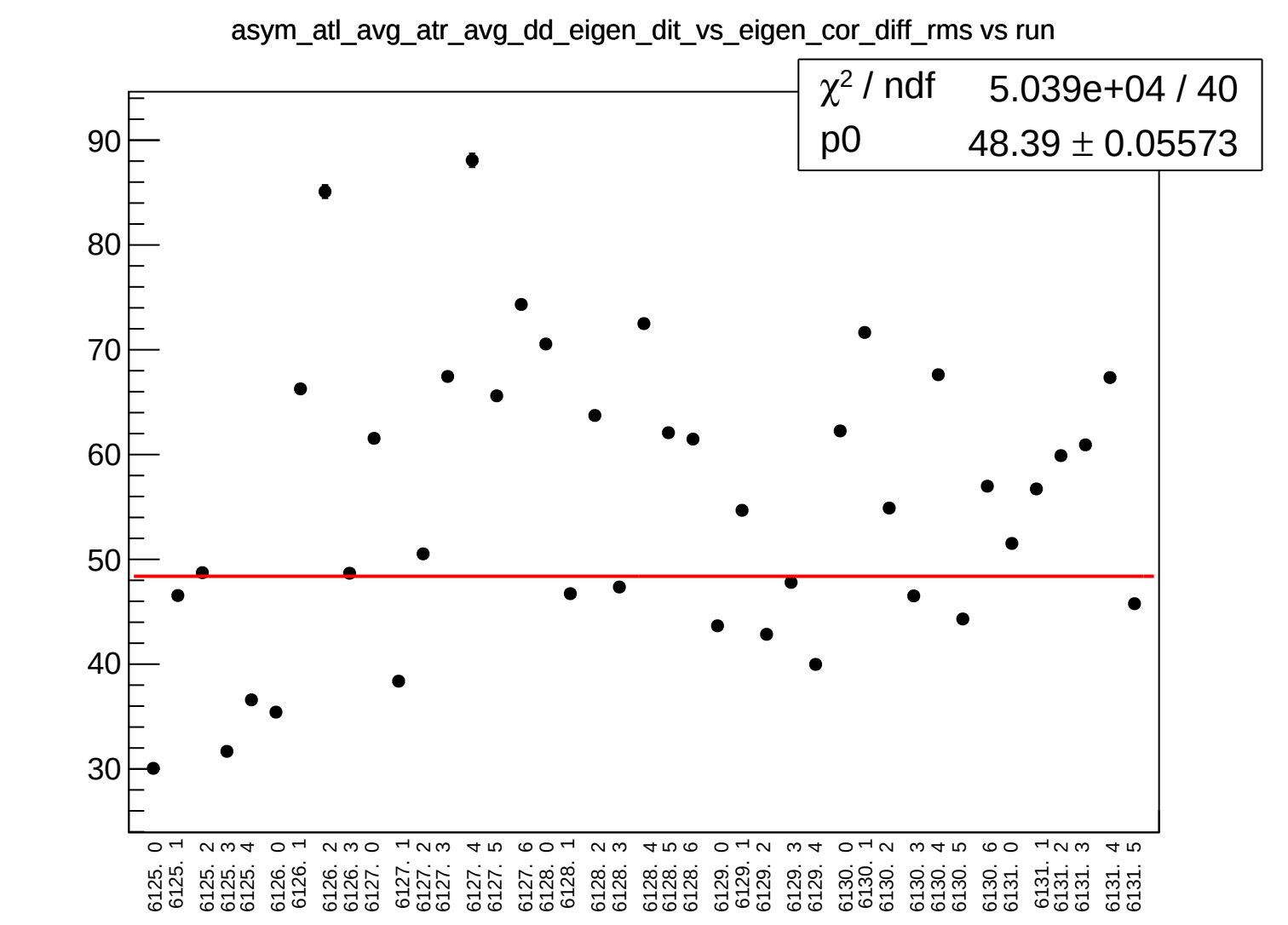

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 485.5 / 40
p0 0.004299 ± 4.795e−06
0.0045
0.0044
0.0043
0.0042
0.0041
0.004
0.0039
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

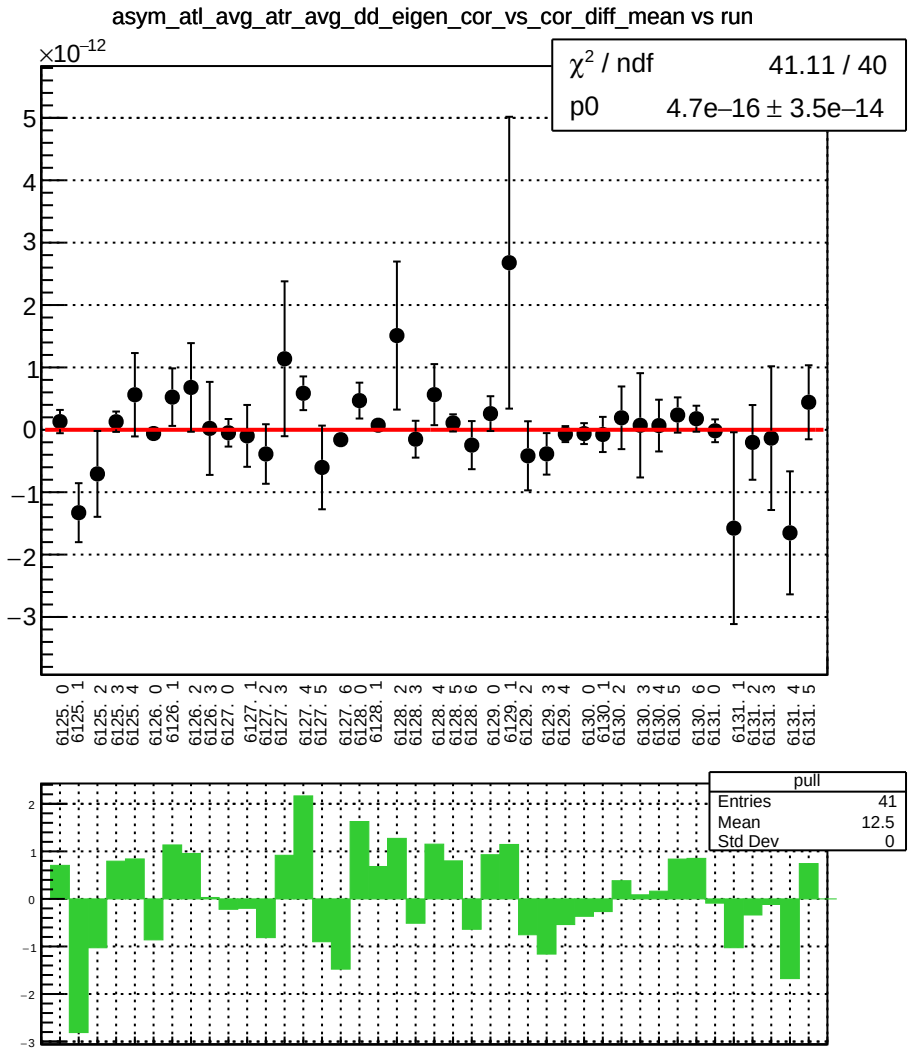

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 39.87 / 40
p0 0.02223 ± 0.07881
pull
Entries 41
Mean −0.8276
Std Dev 0

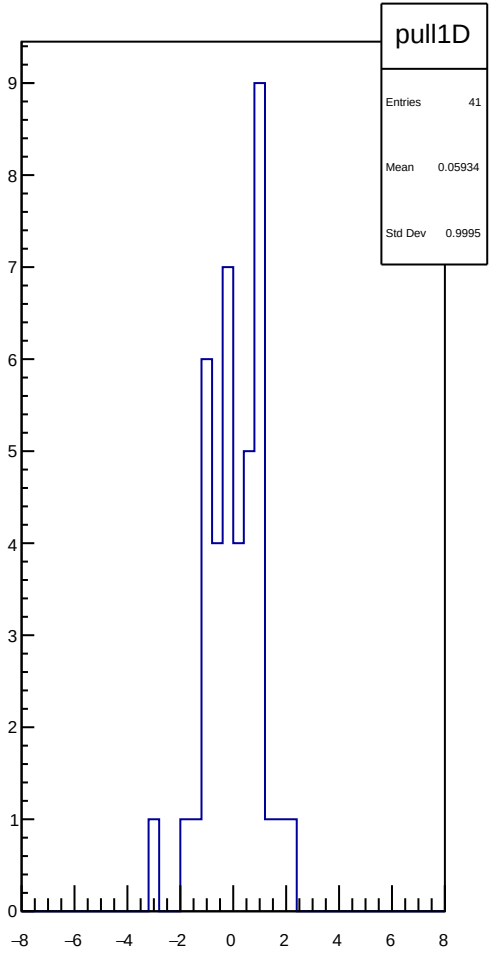

pull1D
Entries 41
Mean 0.08515
Std Dev 0.9824

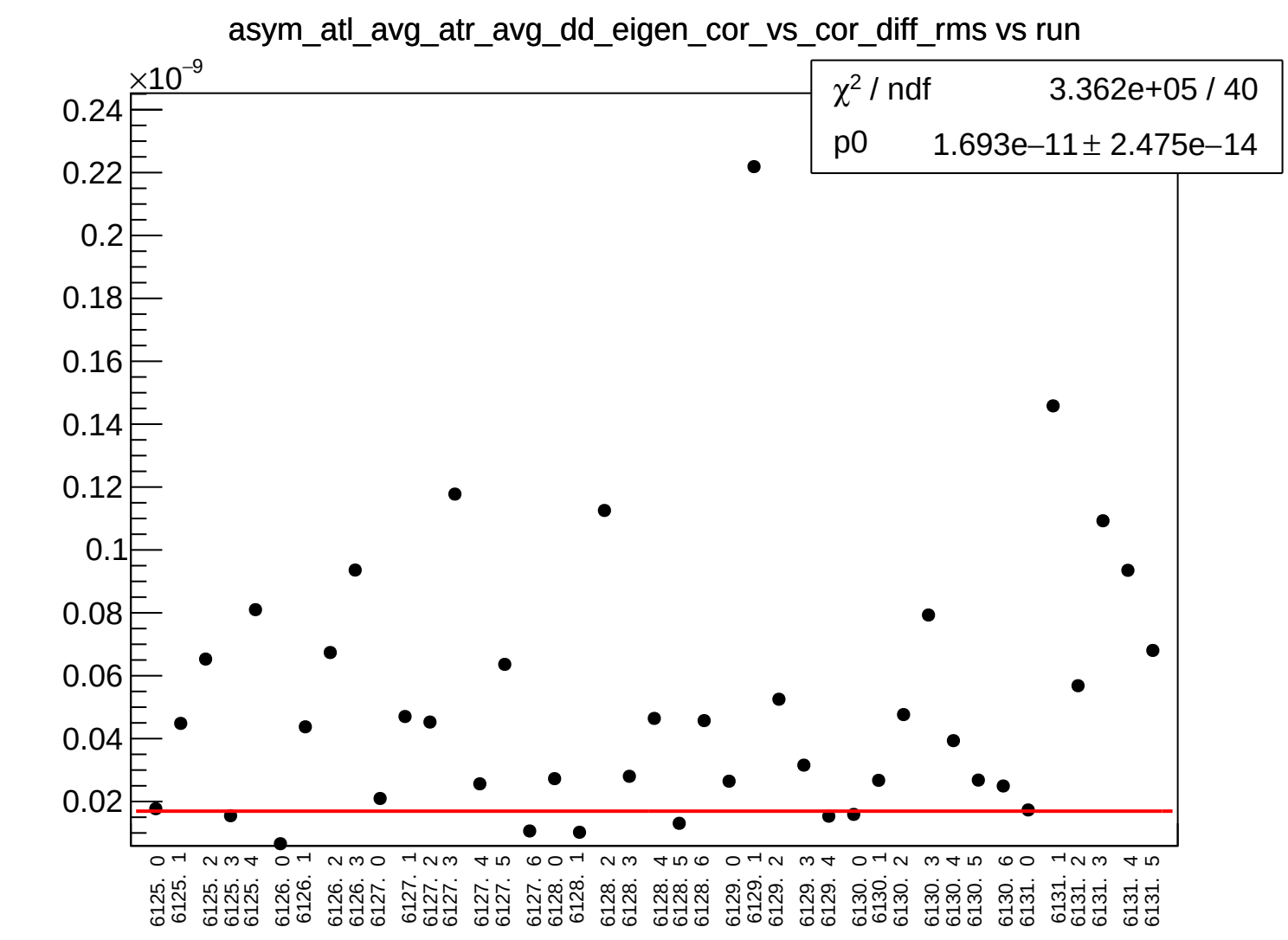

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.039e+04 / 40
p0 48.39 ± 0.05573
90
80
70
60
50
40
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

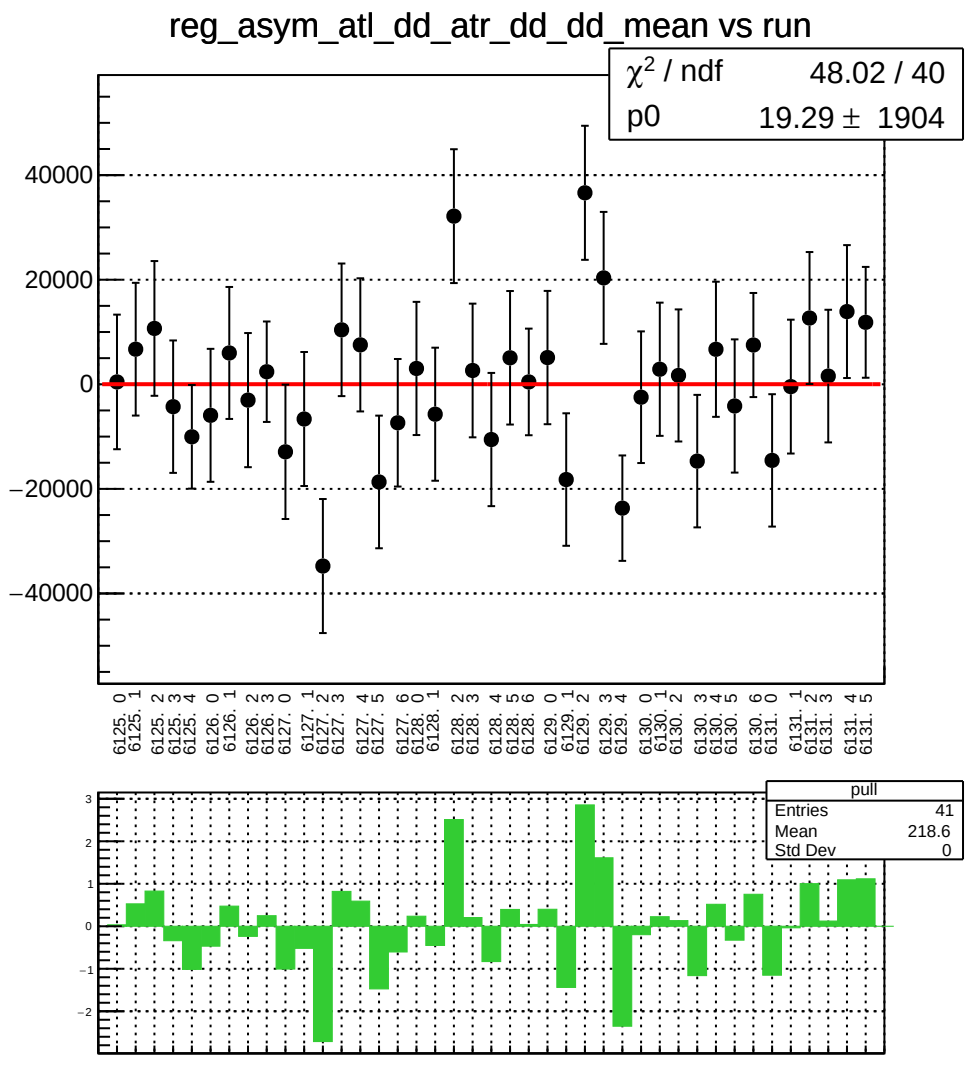

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.87 / 40
p0 0.02223 ± 0.07881
pull
Entries 41
Mean −0.8276
Std Dev 0
pull1D
Entries 41
Mean 0.08515
Std Dev 0.9824

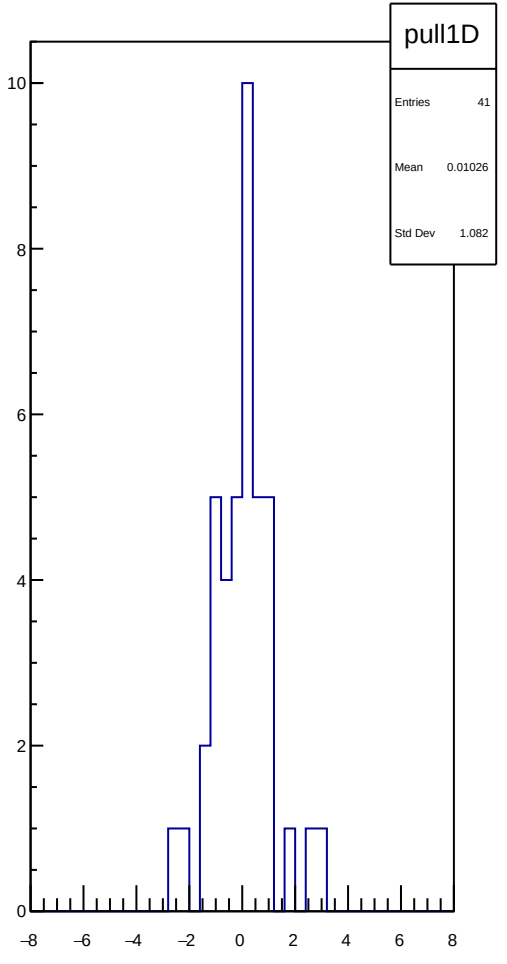

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.039e+04 / 40
p0 48.39 ± 0.05573
90
80
70
60
50
40
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

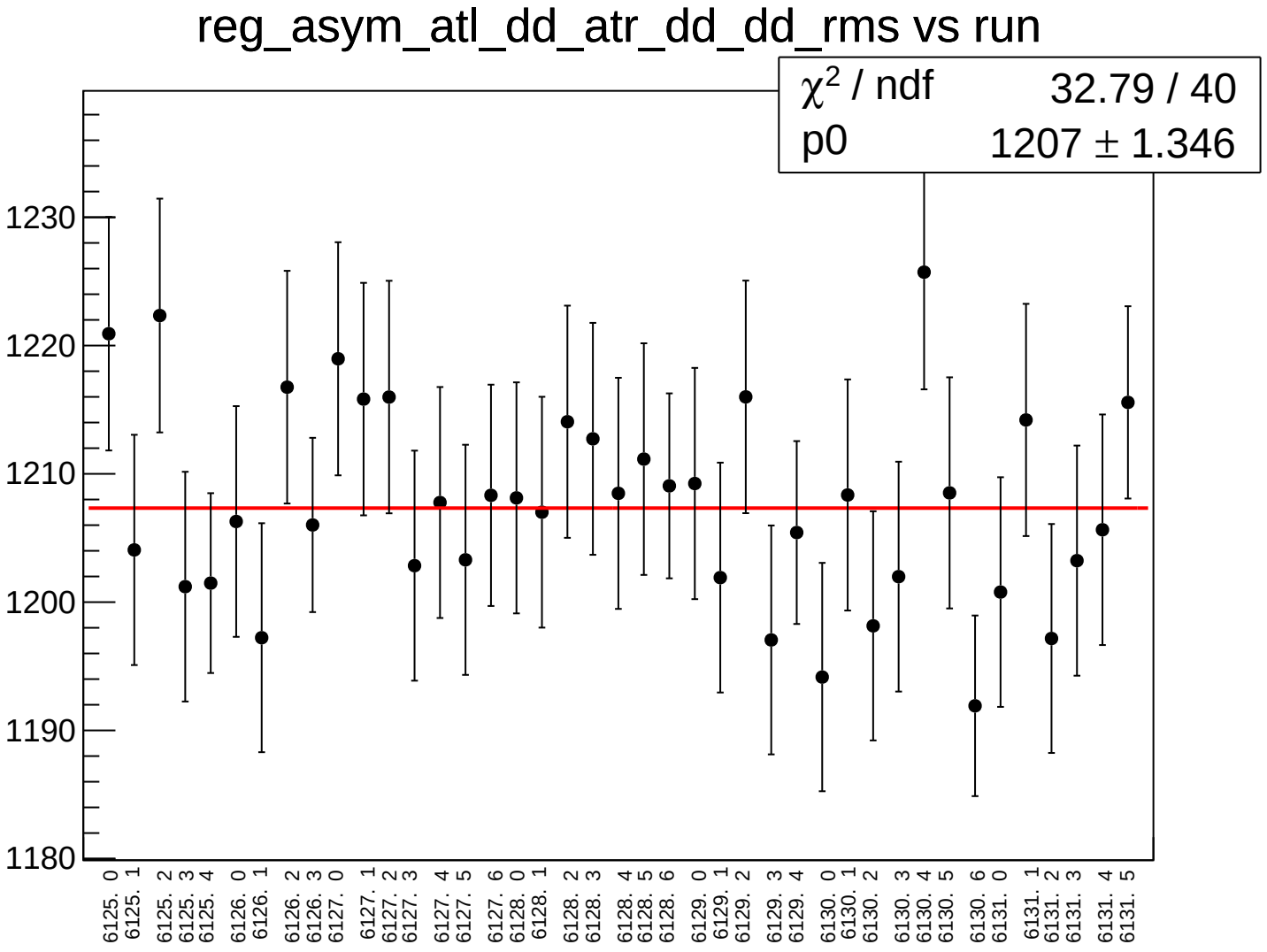

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 41.11 / 40
p0 4.7e−16 ± 3.5e−14
pull
Entries 41
Mean 12.5
Std Dev 0

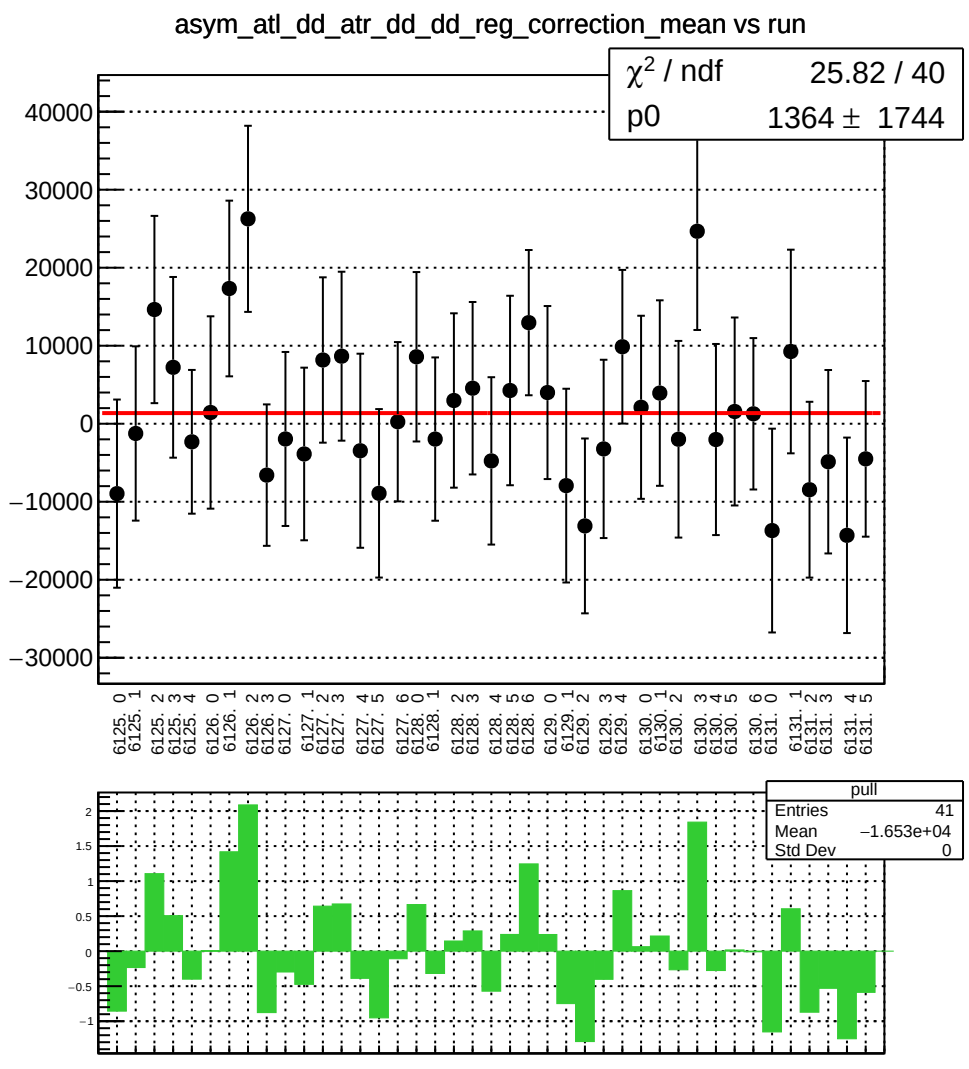

pull1D
Entries 41
Mean 0.05934
Std Dev 0.9995

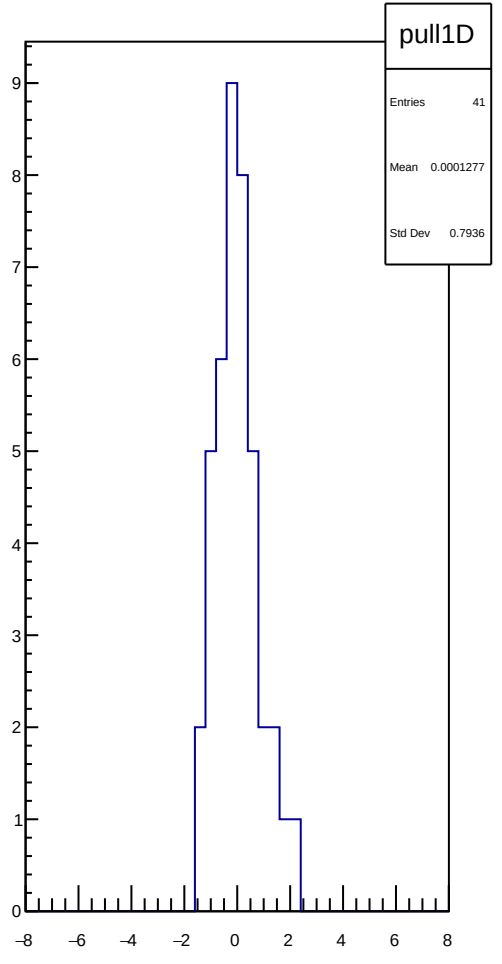

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.362e+05 / 40
p0 1.693e−11 ± 2.475e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

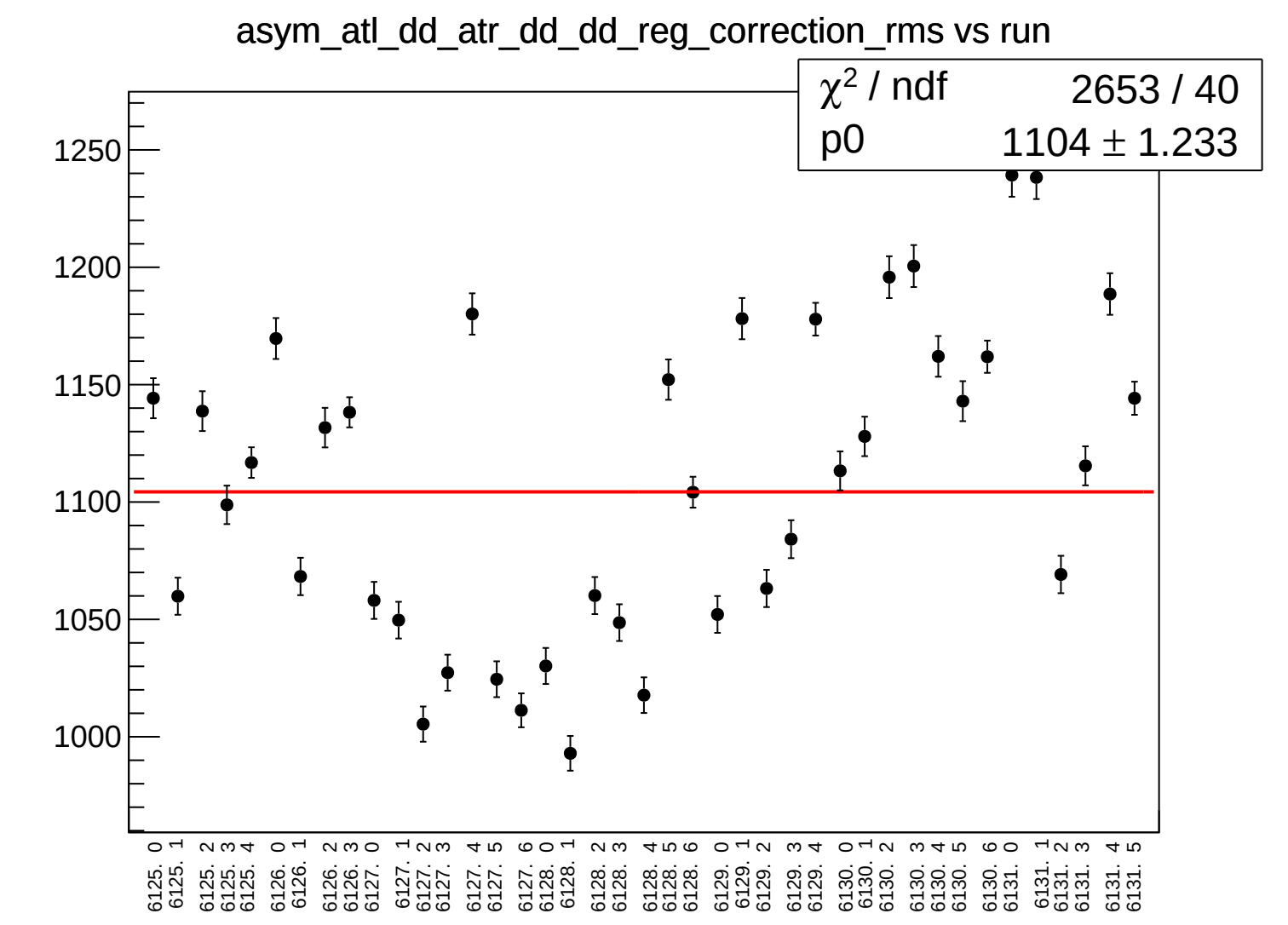

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 48.02 / 40
p0 19.29 ± 1904
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 218.6
Std Dev 0
3
2
1
0
−1
−2

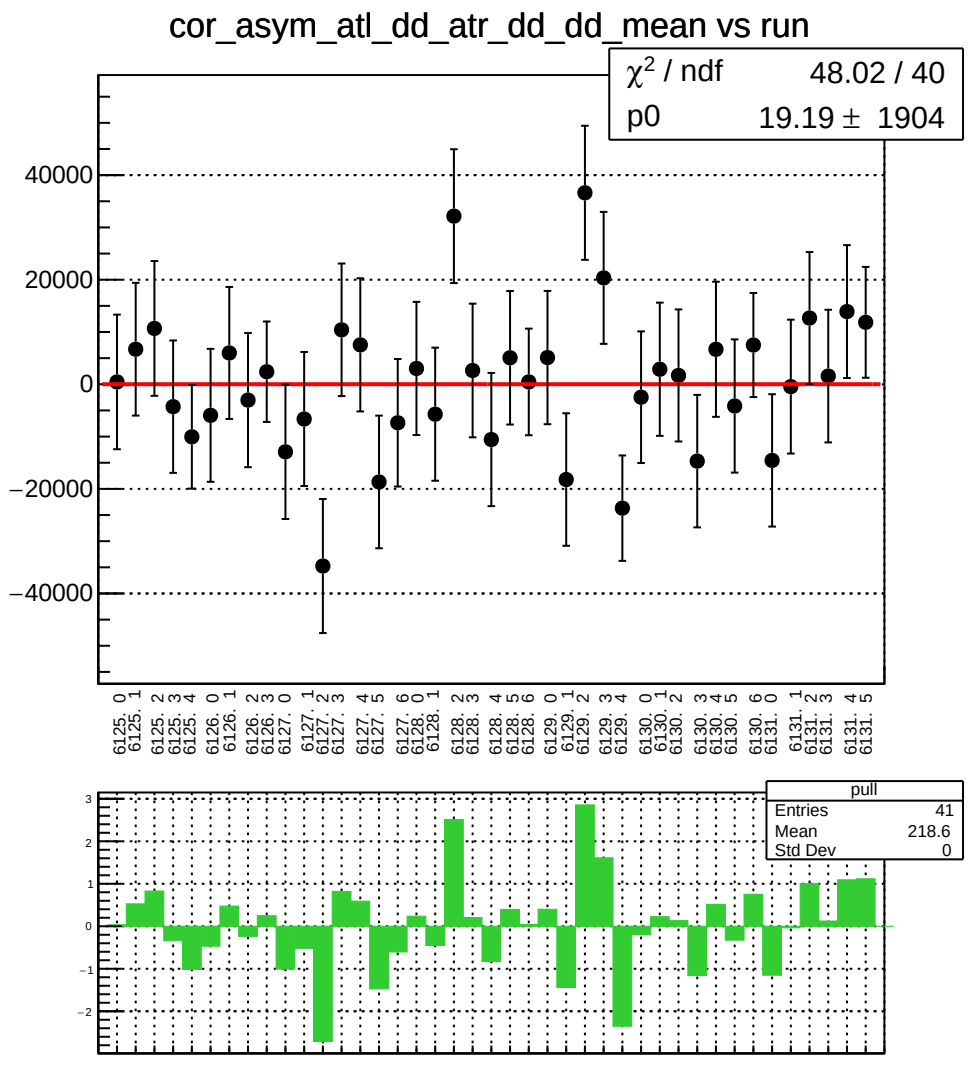

pull1D
Entries 41
Mean 0.01026
Std Dev 1.082
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

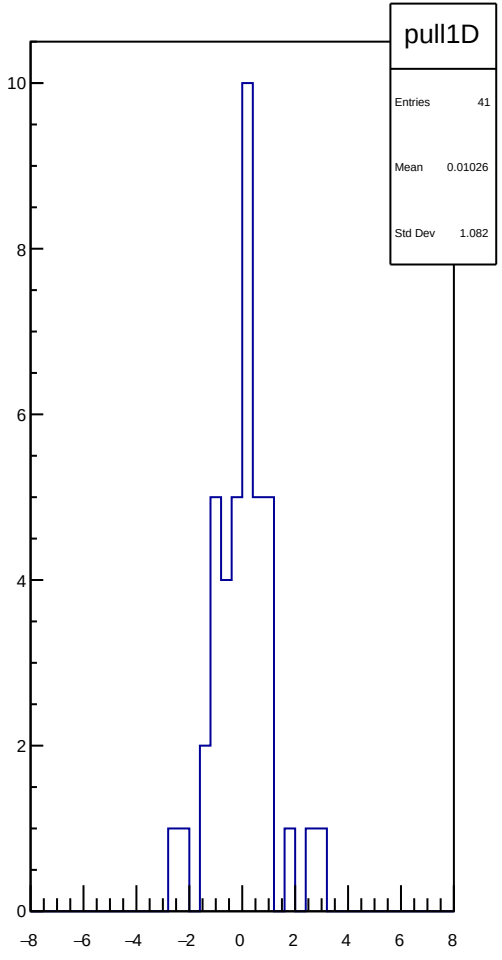

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 32.79 / 40
p0 1207 ± 1.346
1230
1220
1210
1200
1190
1180
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

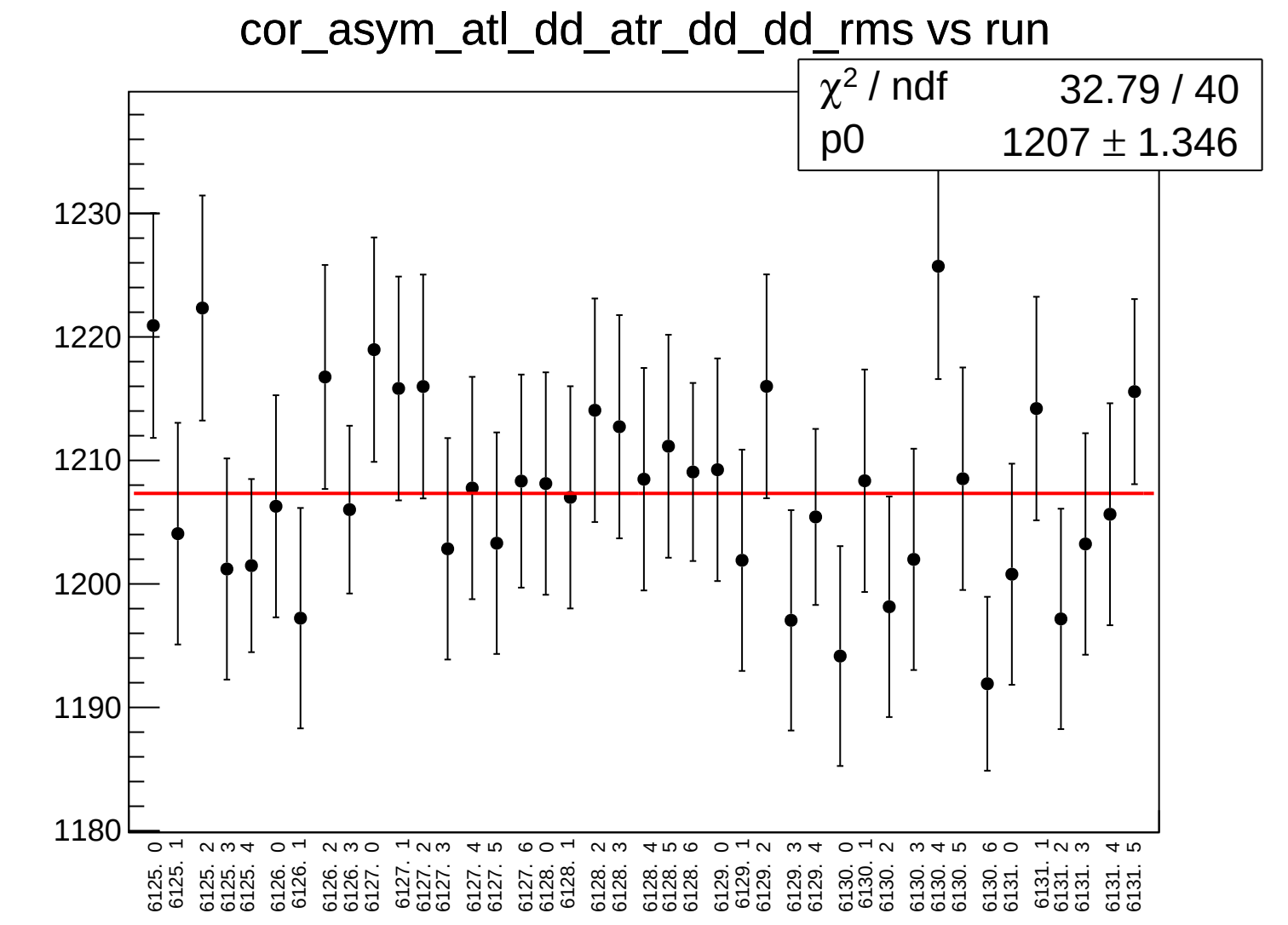

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 25.82 / 40
p0 1364 ± 1744
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1.653e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

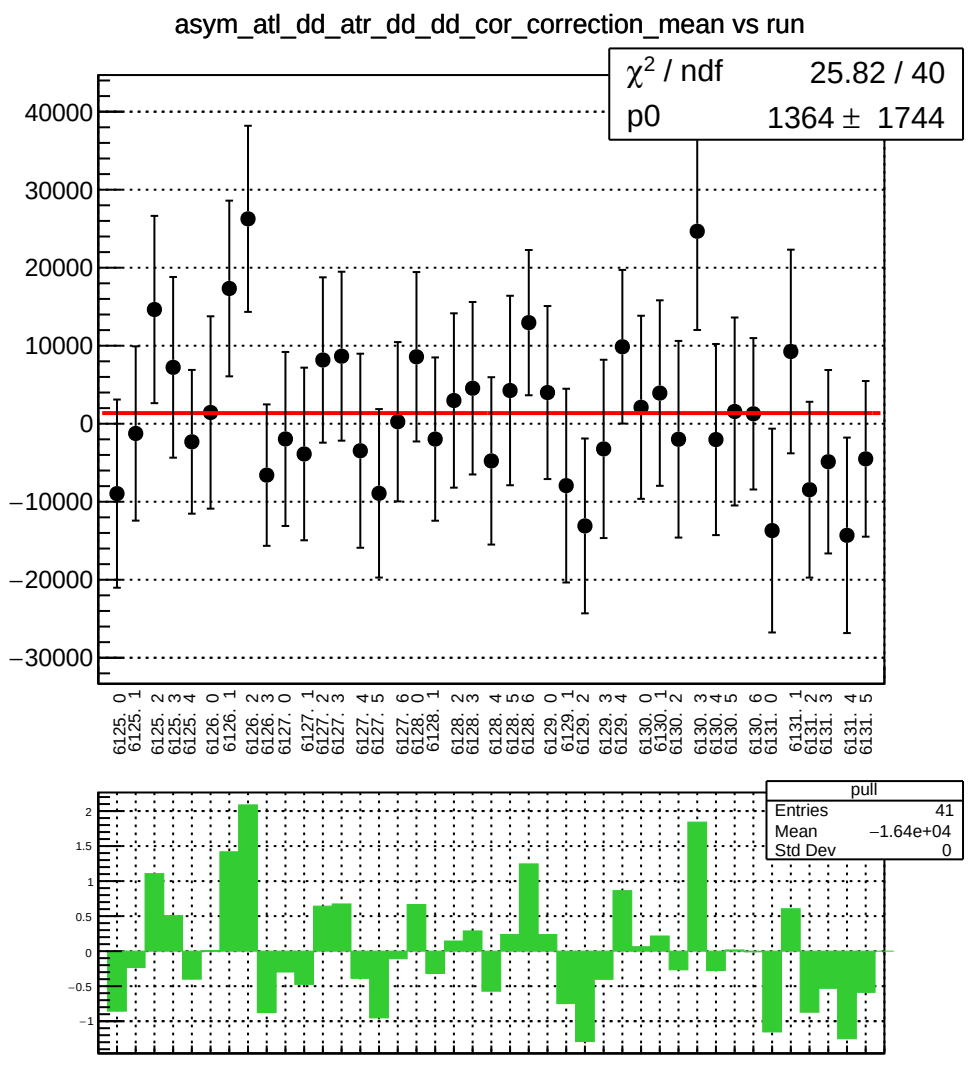

pull1D
Entries 41
Mean 0.0001277
Std Dev 0.7936
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 2653 / 40
p0 1104 ± 1.233
1250
1200
1150
1100
1050
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 48.02 / 40
p0 19.19 ± 1904
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 218.6
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 41
Mean 0.01026
Std Dev 1.082
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 32.79 / 40
p0 1207 ± 1.346
1230
1220
1210
1200
1190
1180
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 25.82 / 40
p0 1364 ± 1744
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
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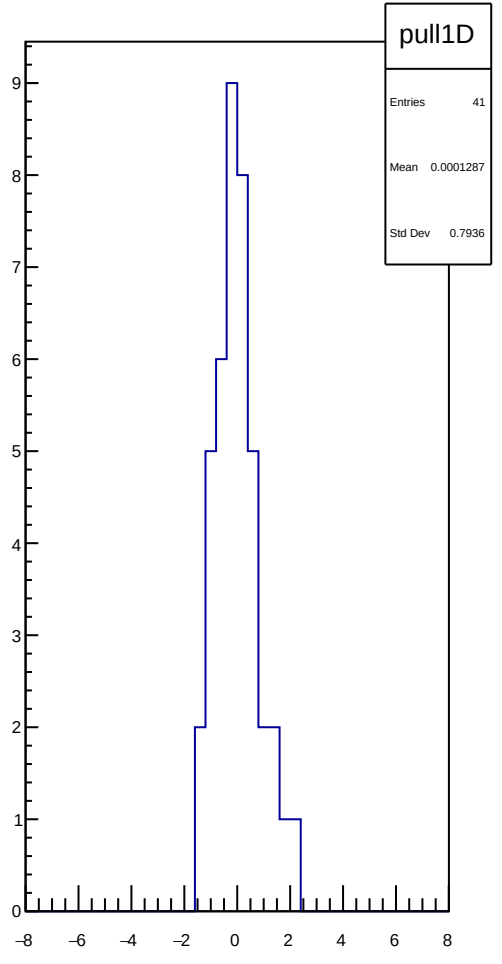
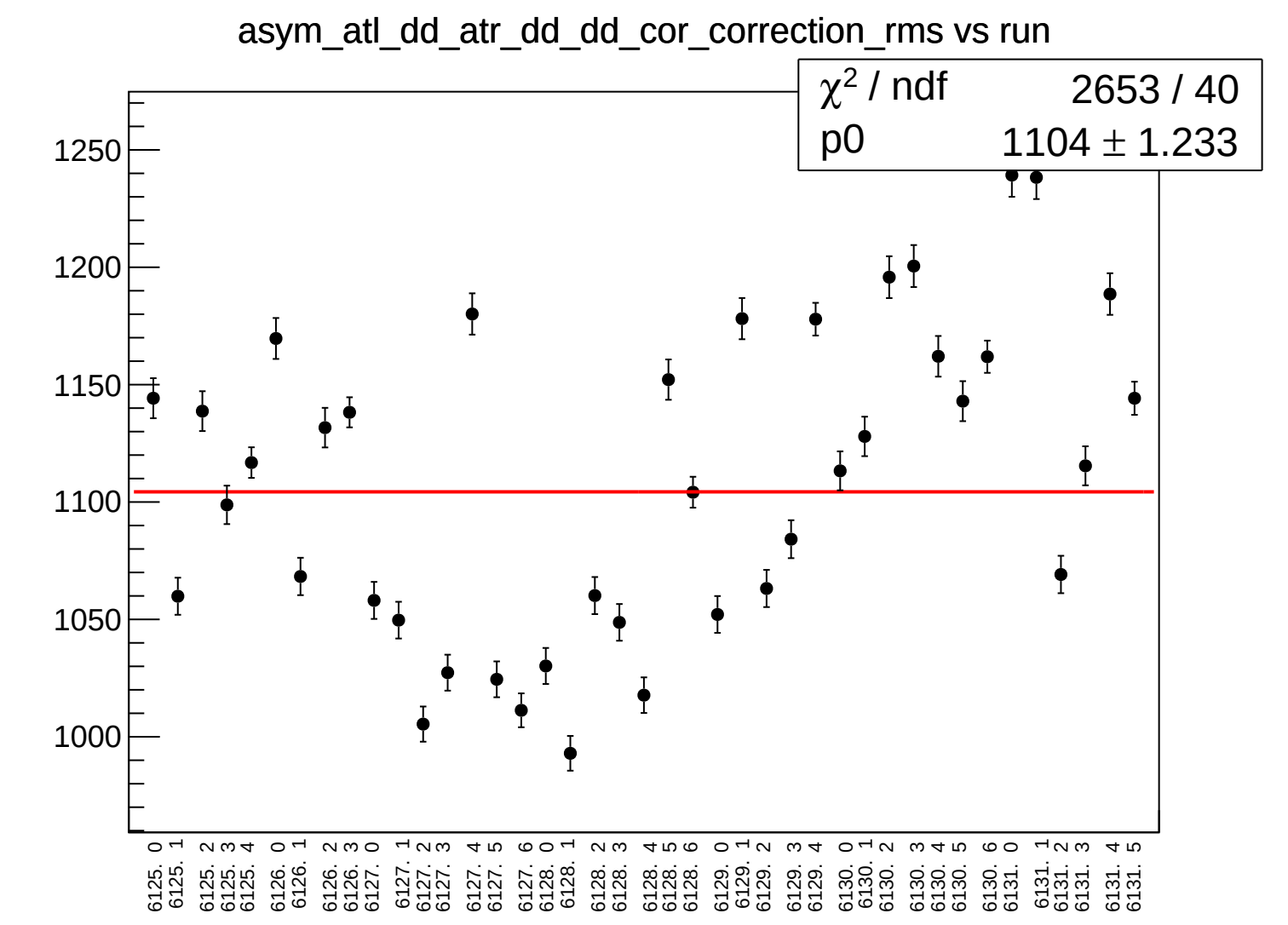
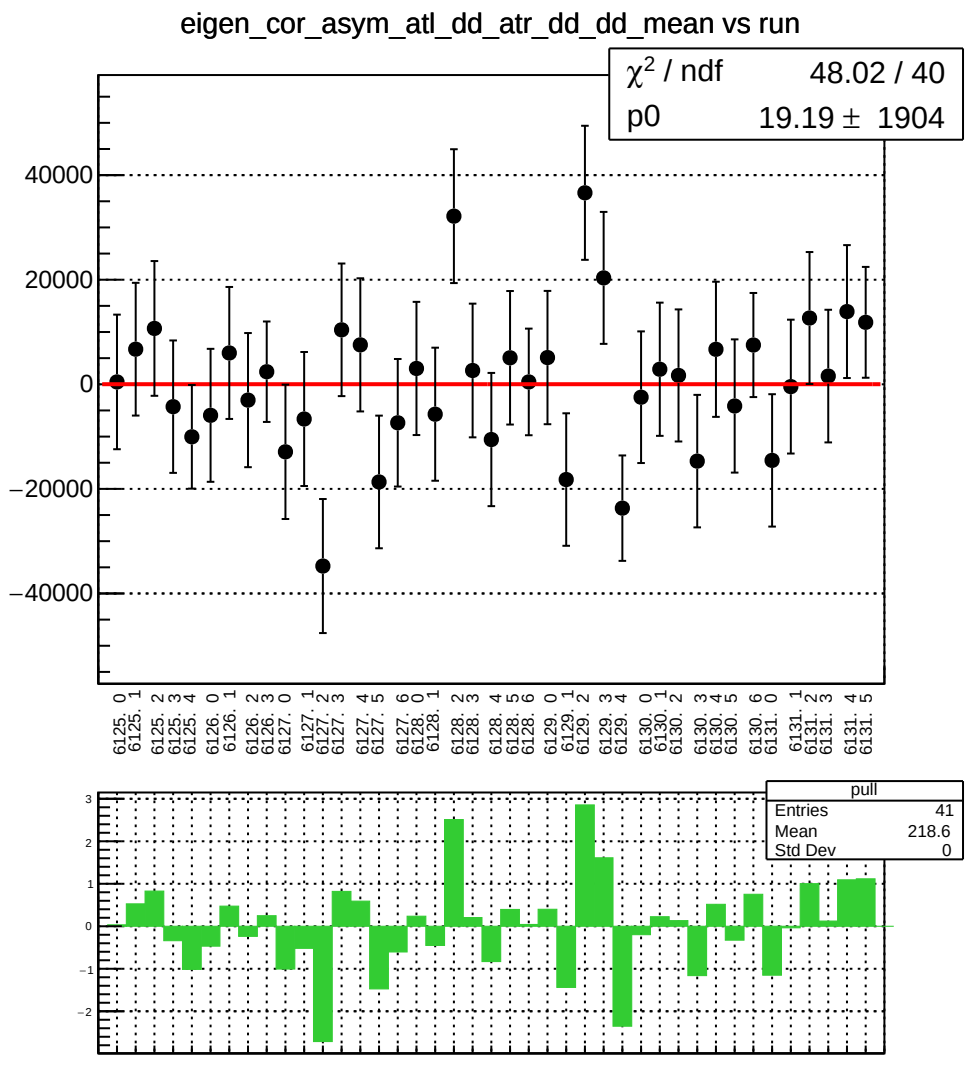
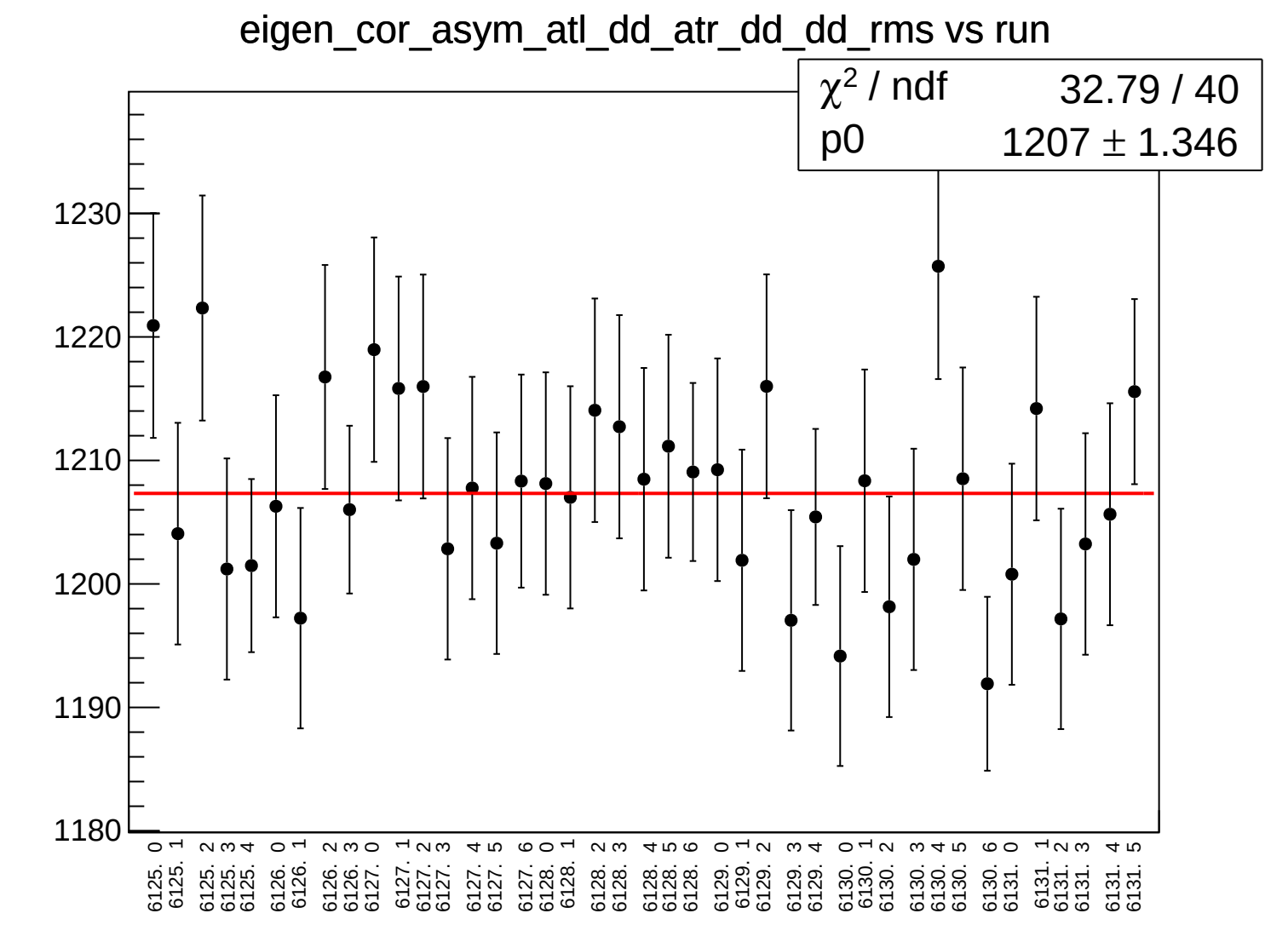
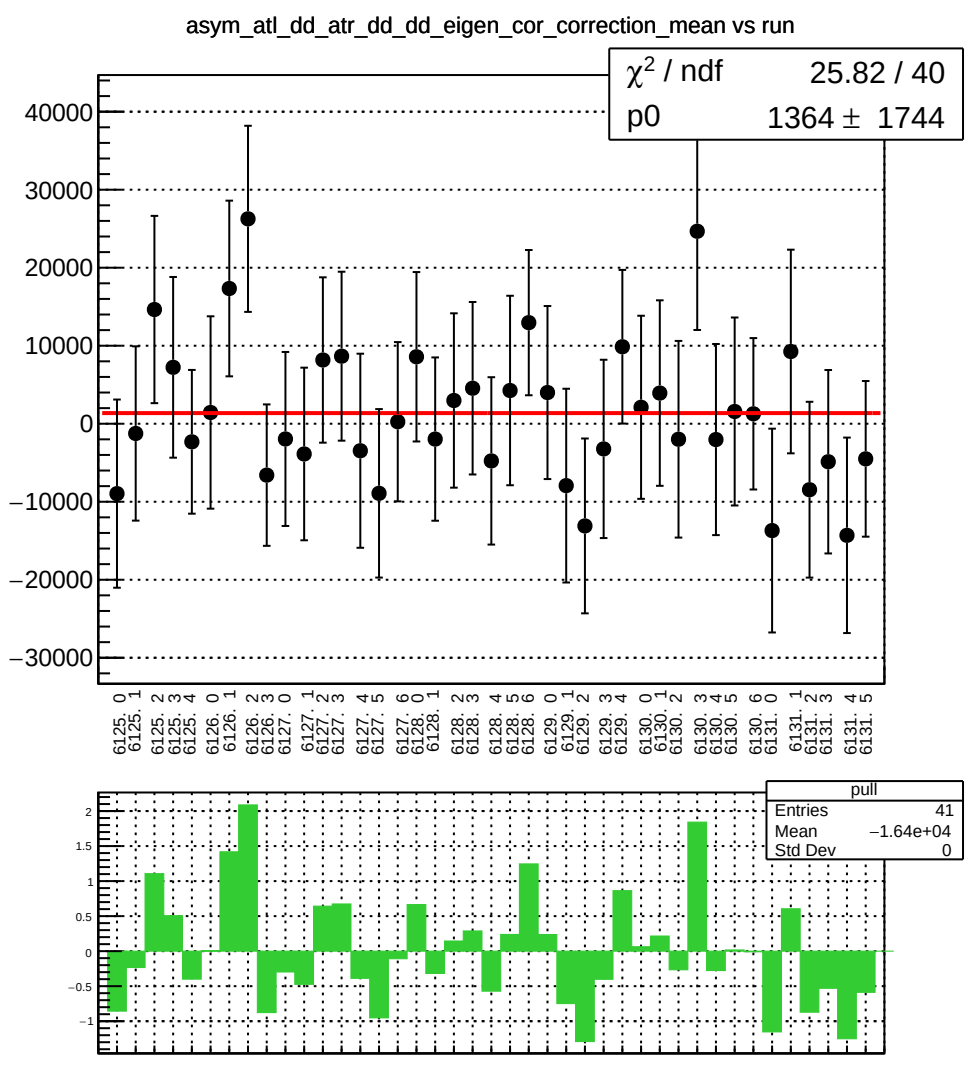
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1.64e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

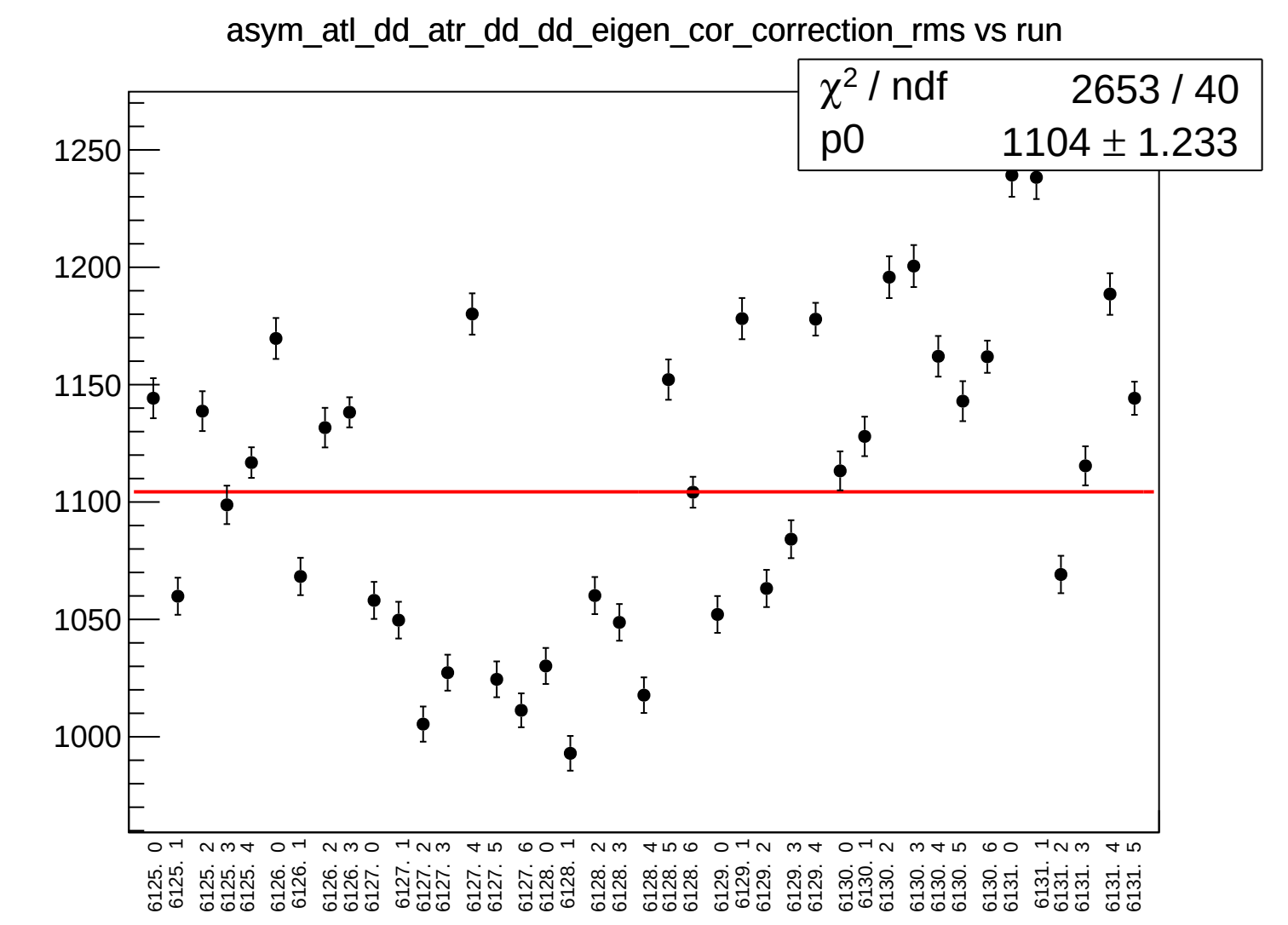

pull1D
Entries 41
Mean 0.0001287
Std Dev 0.7936
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

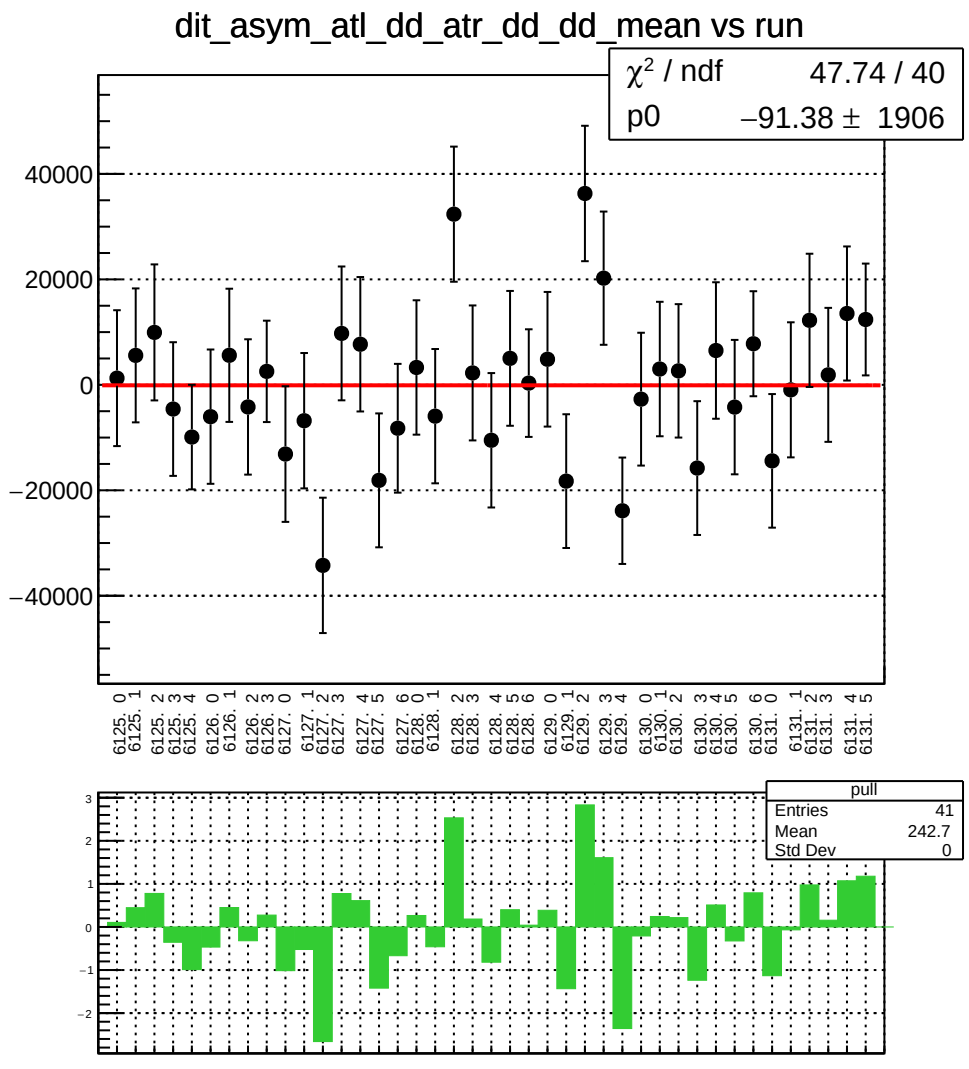

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 2653 / 40
p0 1104 ± 1.233
1250
1200
1150
1100
1050
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

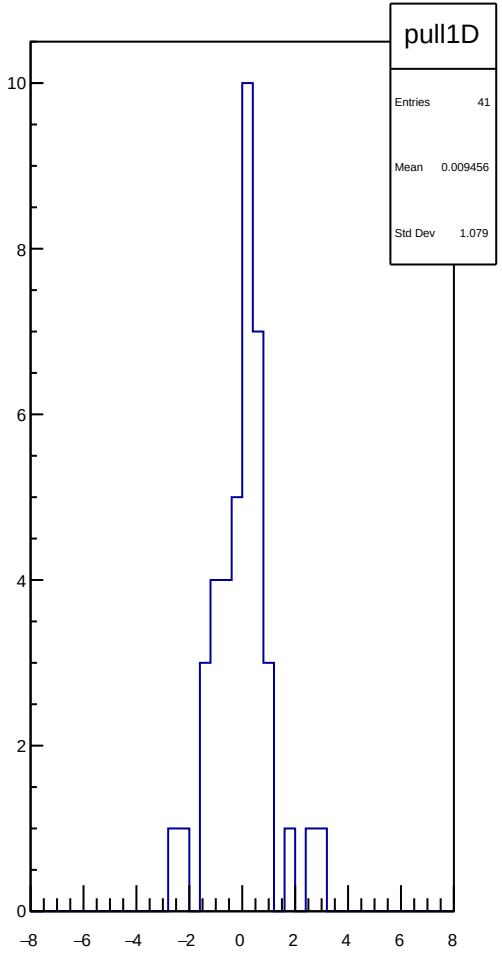

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 48.02 / 40
p0 19.19 ± 1904
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 218.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01026
Std Dev 1.082
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

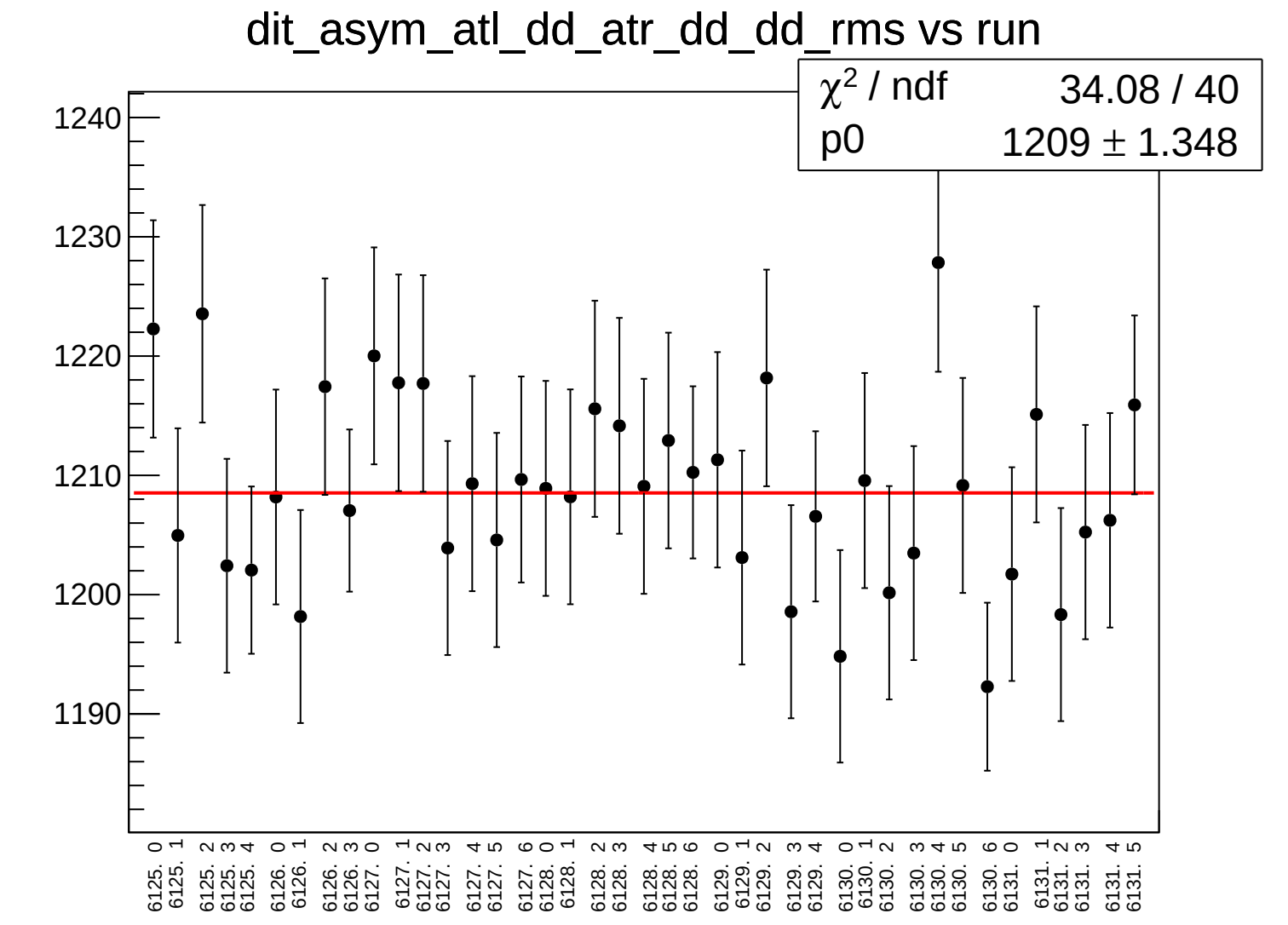

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 32.79 / 40
p0 1207 ± 1.346
1230
1220
1210
1200
1190
1180
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

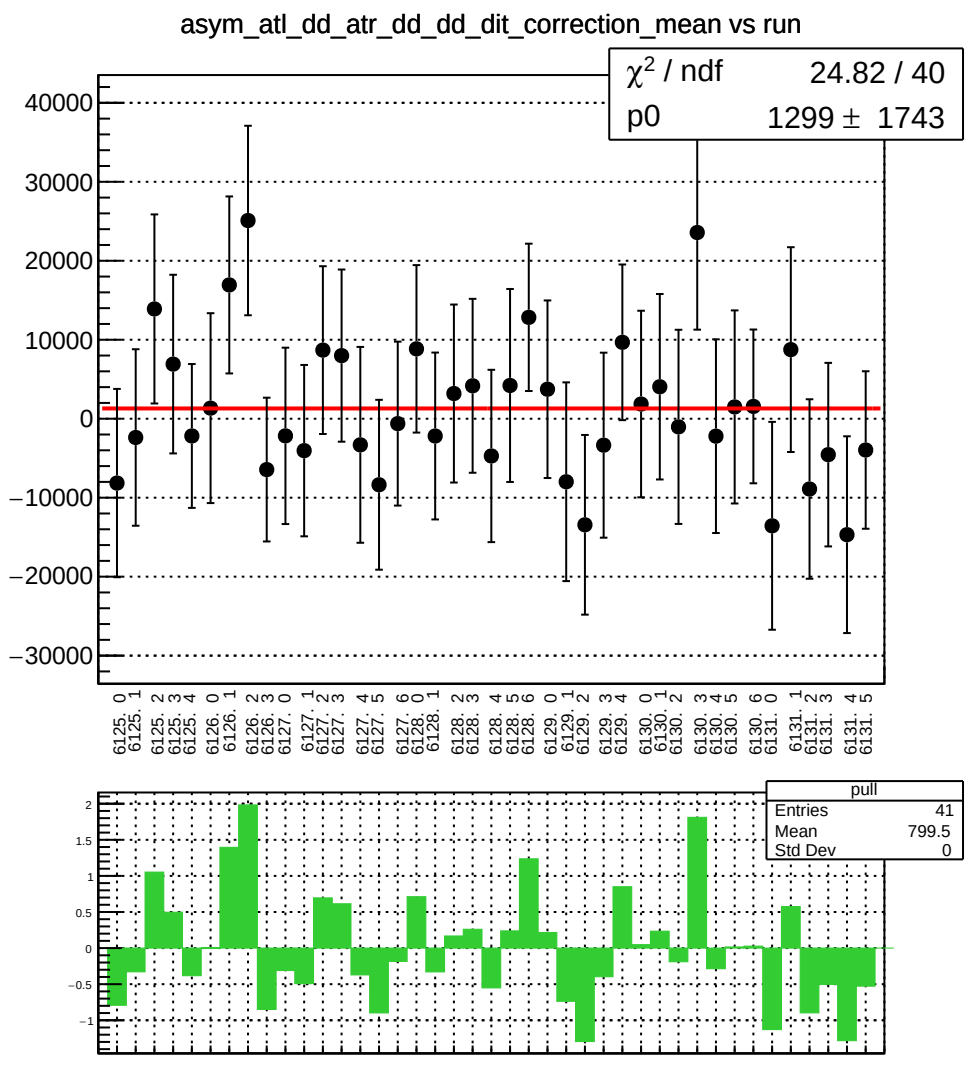

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 25.82 / 40
p0 1364 ± 1744
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1.64e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.0001287
Std Dev 0.7936
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

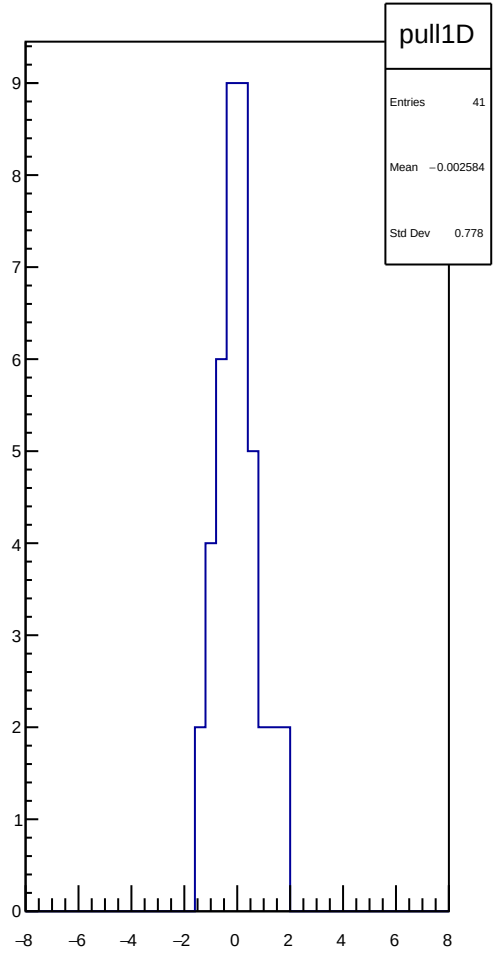

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2653 / 40
p0 1104 ± 1.233
1250
1200
1150
1100
1050
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

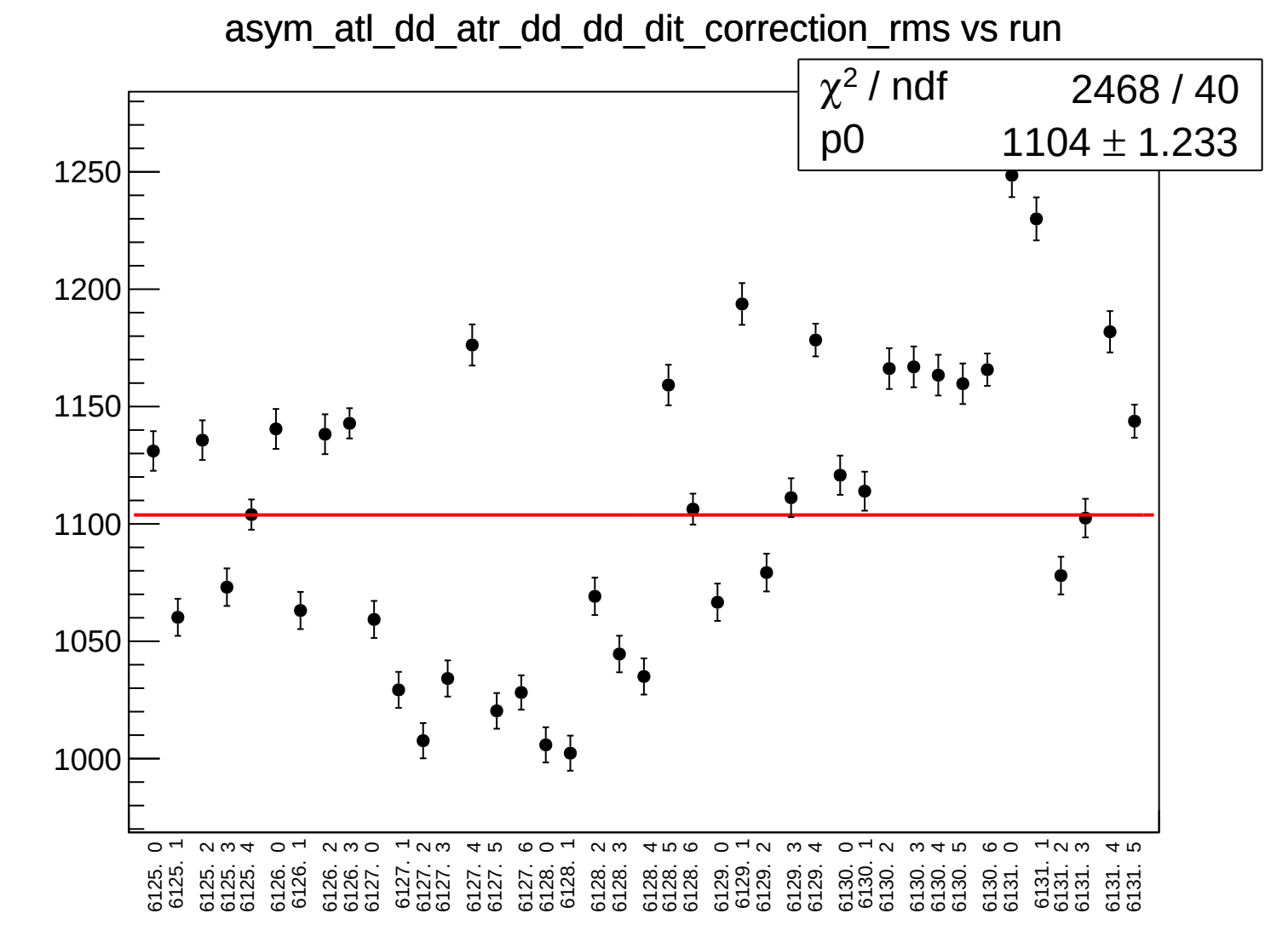

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 47.74 / 40
p0 −91.38 ± 1906
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 242.7
Std Dev 0
3
2
1
0
−1
−2

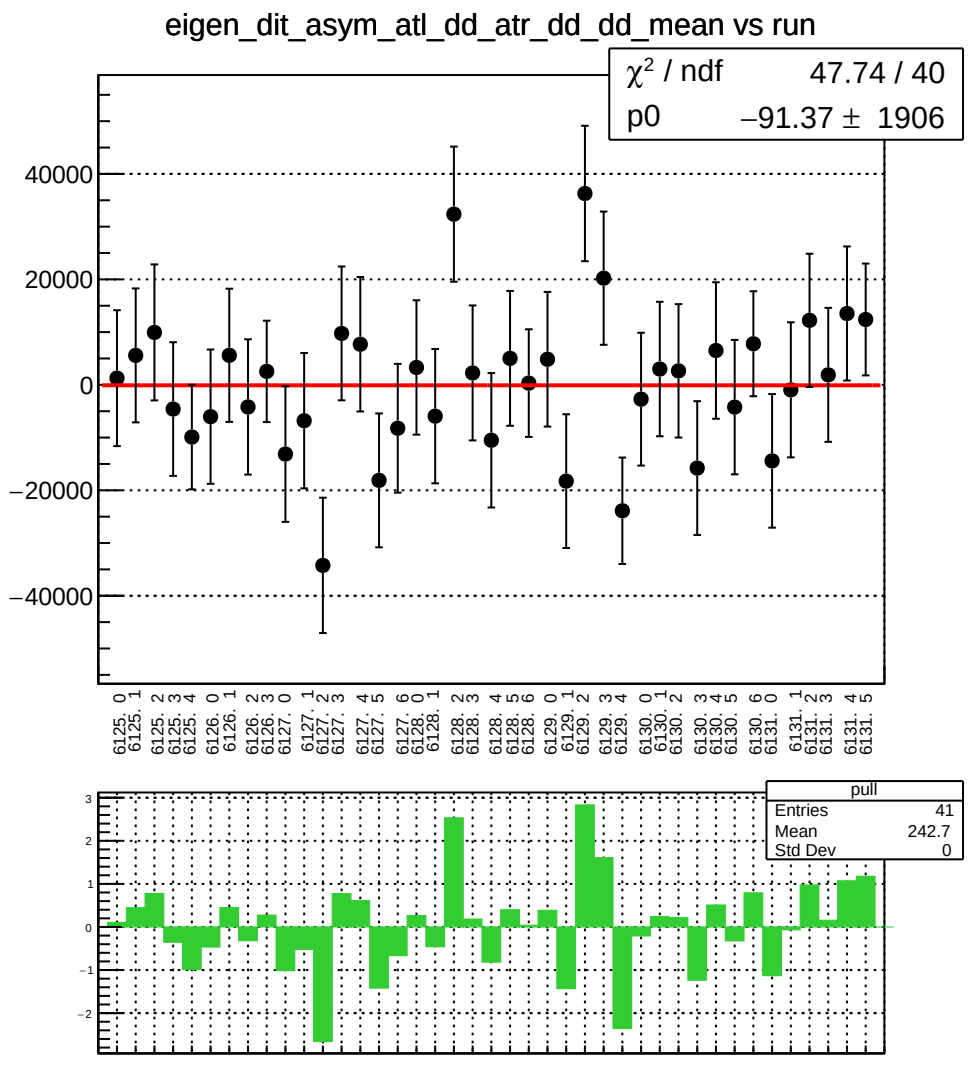


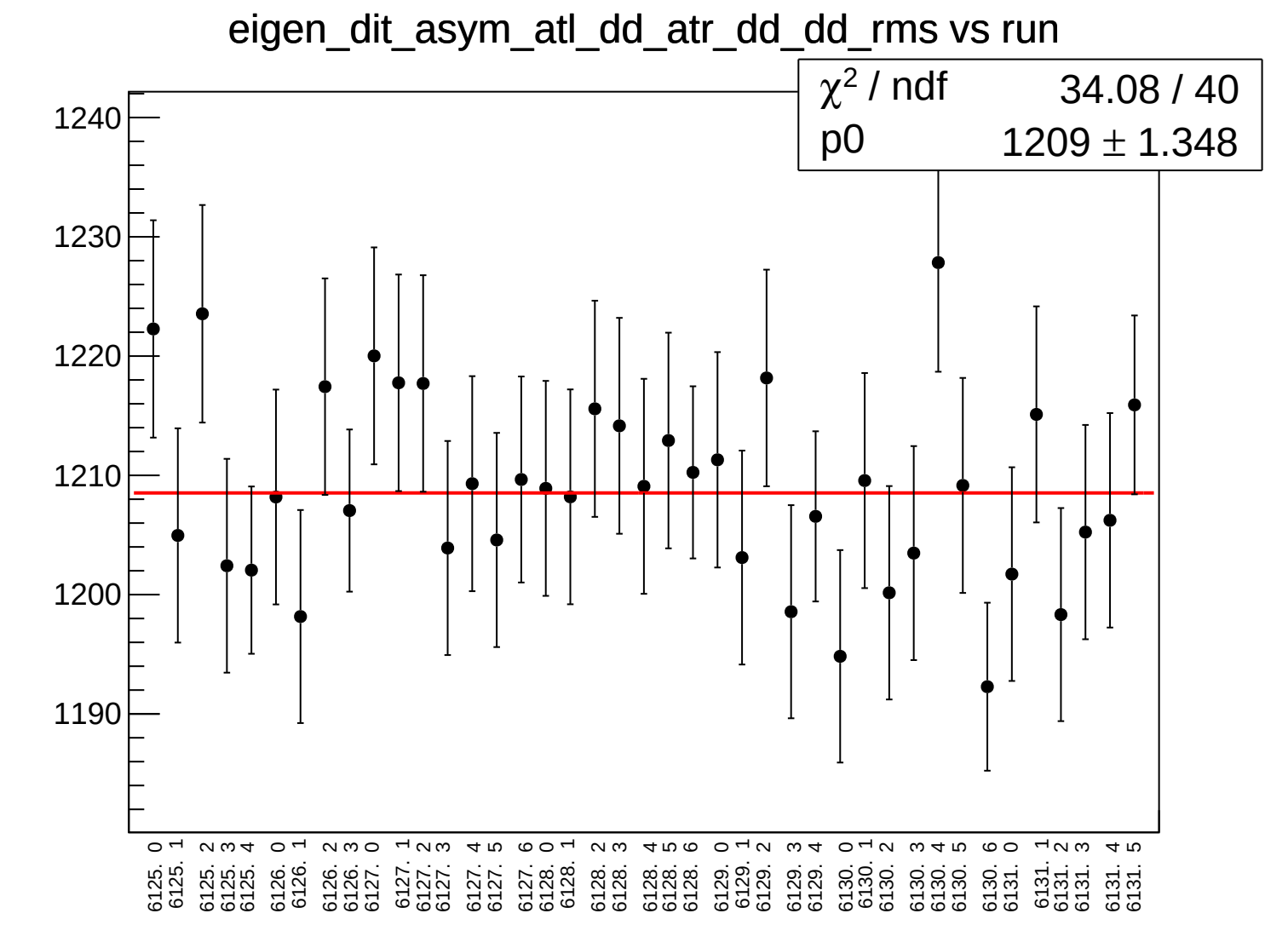

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 34.08 / 40
p0 1209 ± 1.348
1240
1230
1220
1210
1200
1190
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

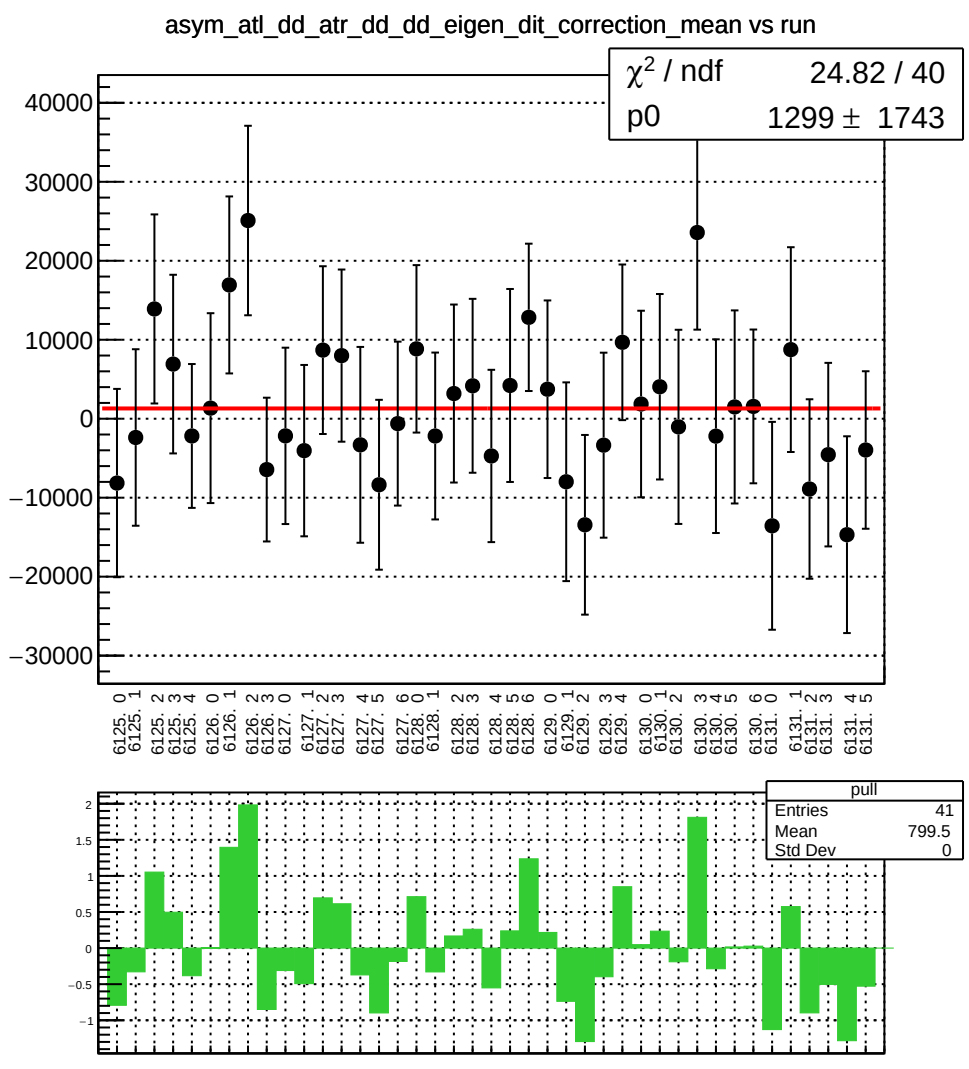

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 24.82 / 40
p0 1299 ± 1743
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 799.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

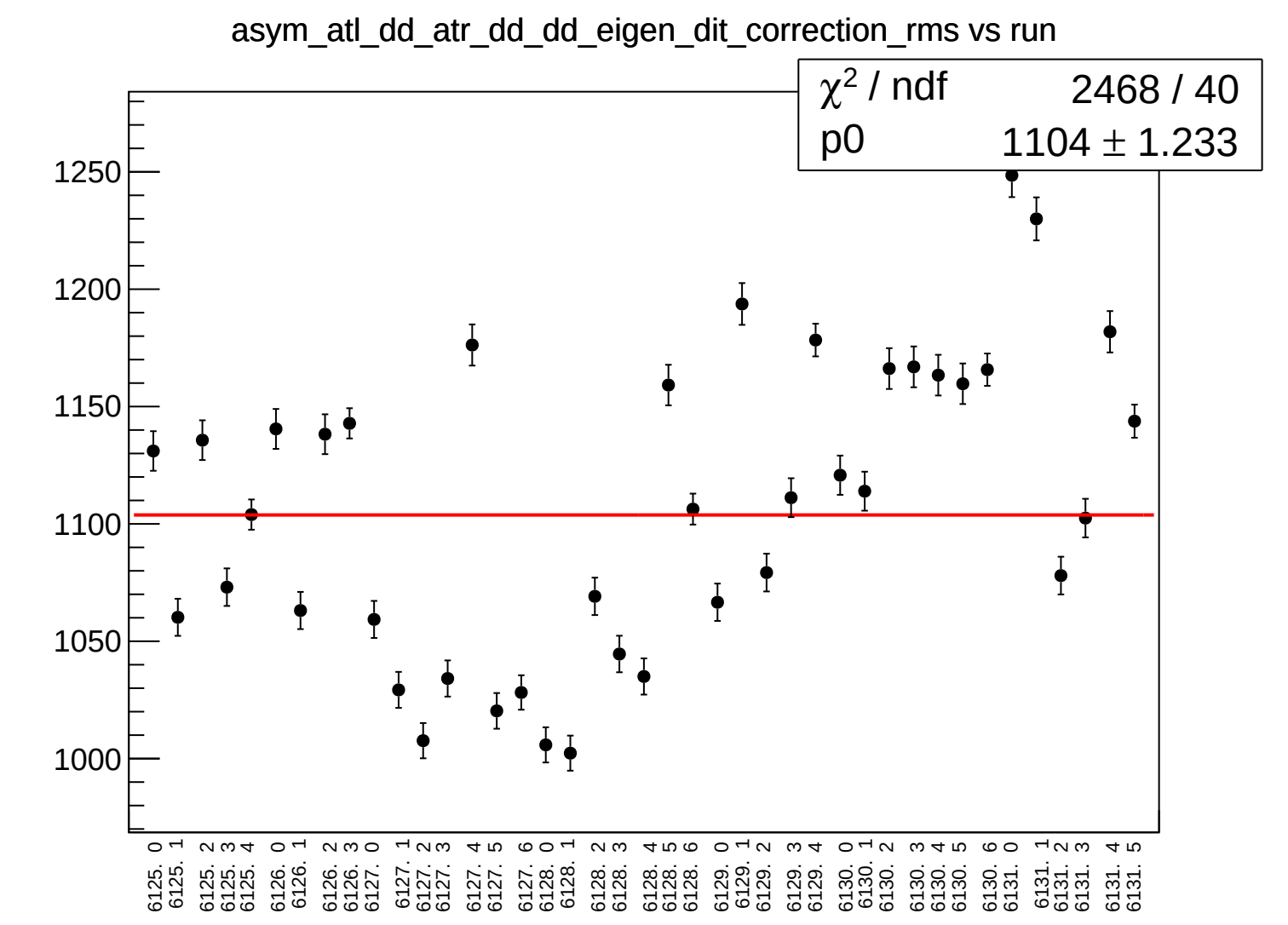

pull1D
Entries 41
Mean −0.002584
Std Dev 0.778
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

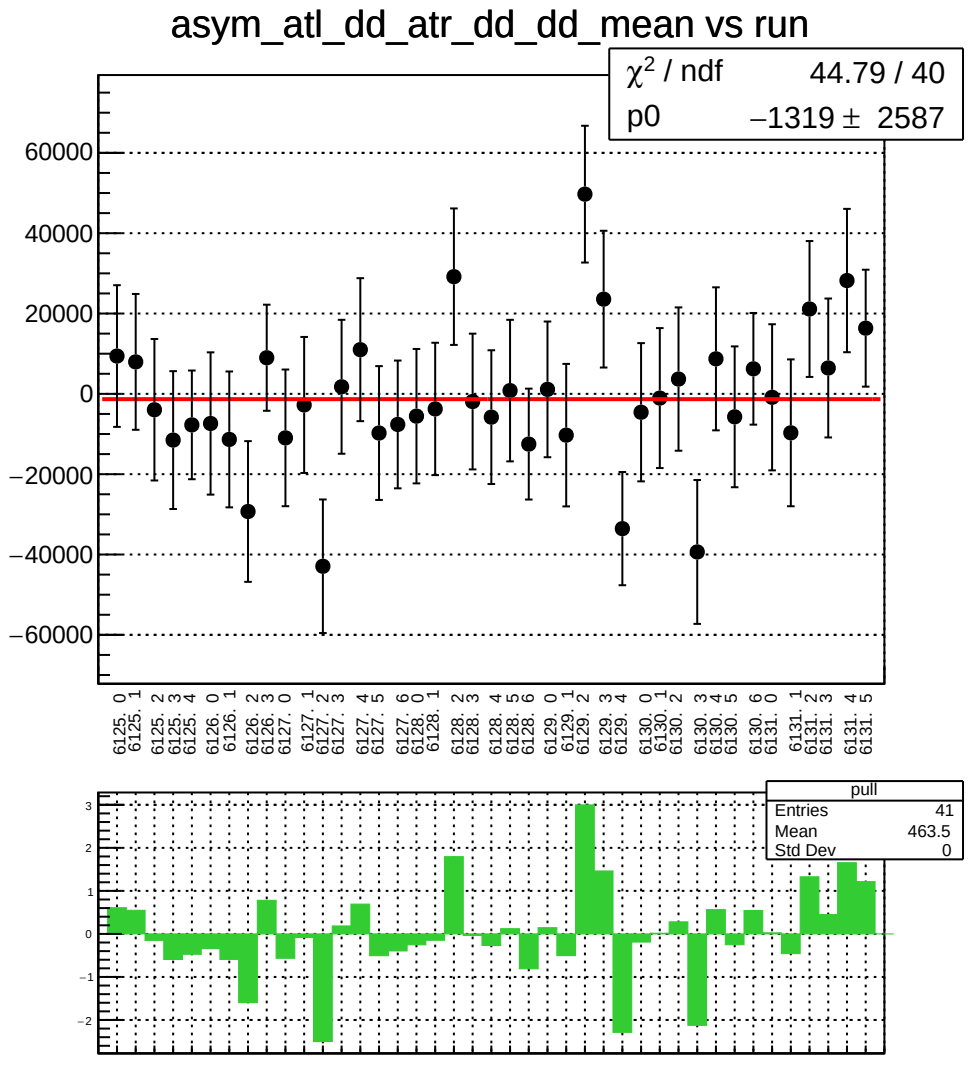

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 2468 / 40
p0 1104 ± 1.233
1250
1200
1150
1100
1050
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

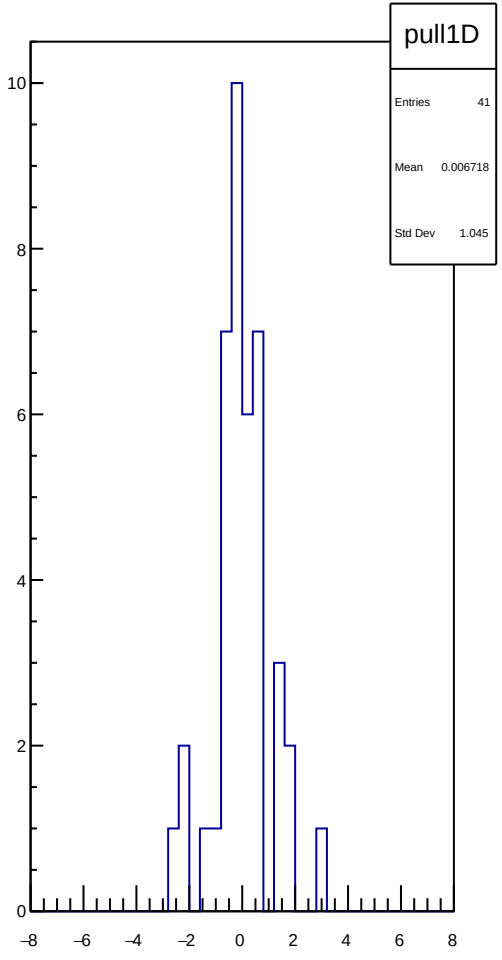

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 47.74 / 40
p0 −91.37 ± 1906
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 242.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.009456
Std Dev 1.079
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

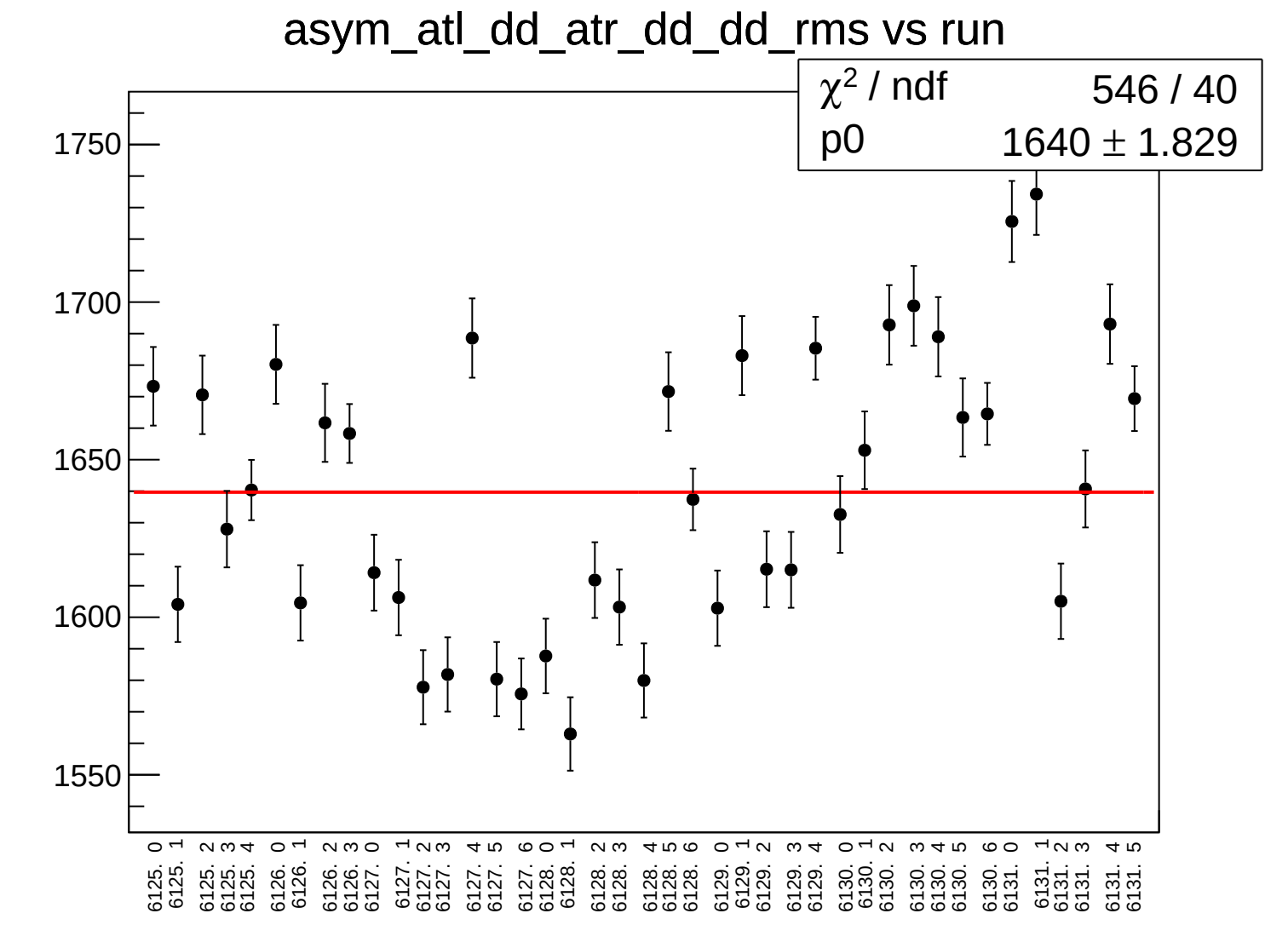

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 34.08 / 40
p0 1209 ± 1.348
1240
1230
1220
1210
1200
1190
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

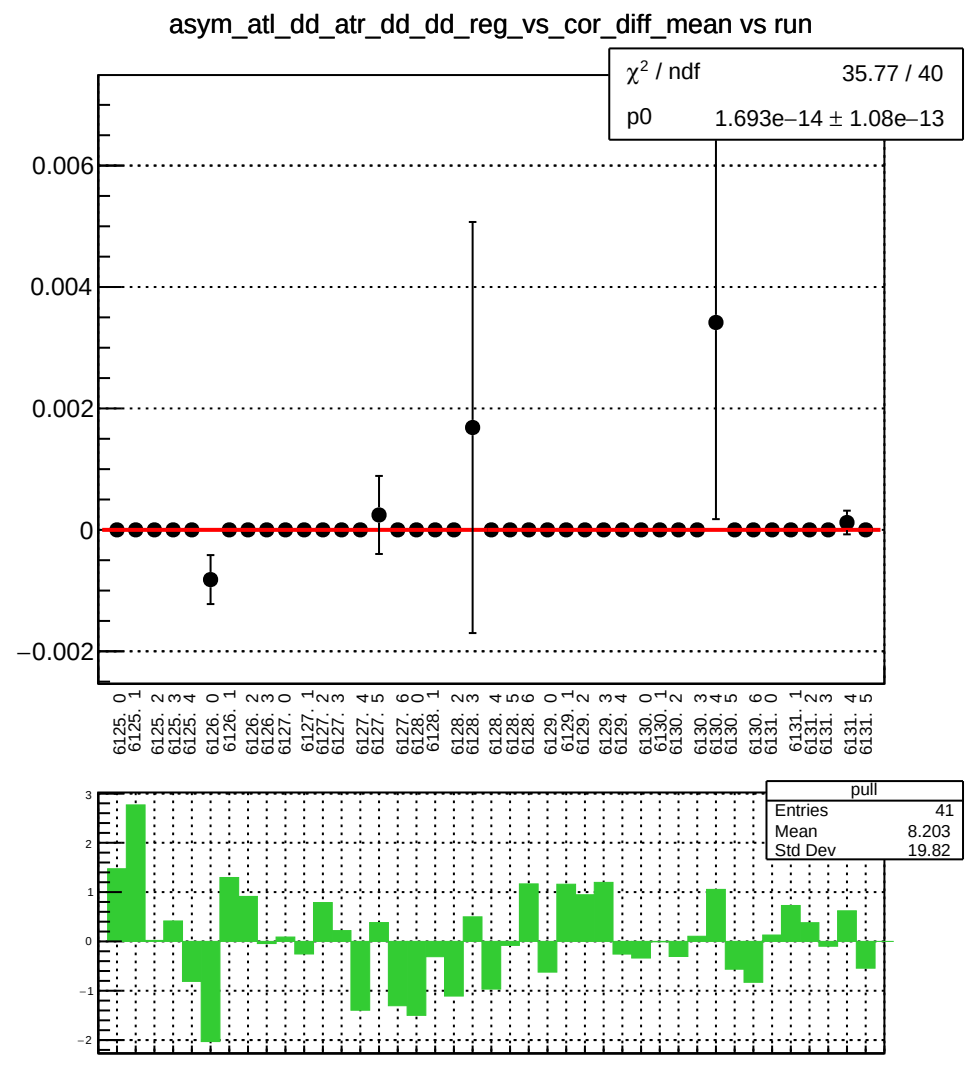

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 24.82 / 40
p0 1299 ± 1743
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 799.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.002584
Std Dev 0.778
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

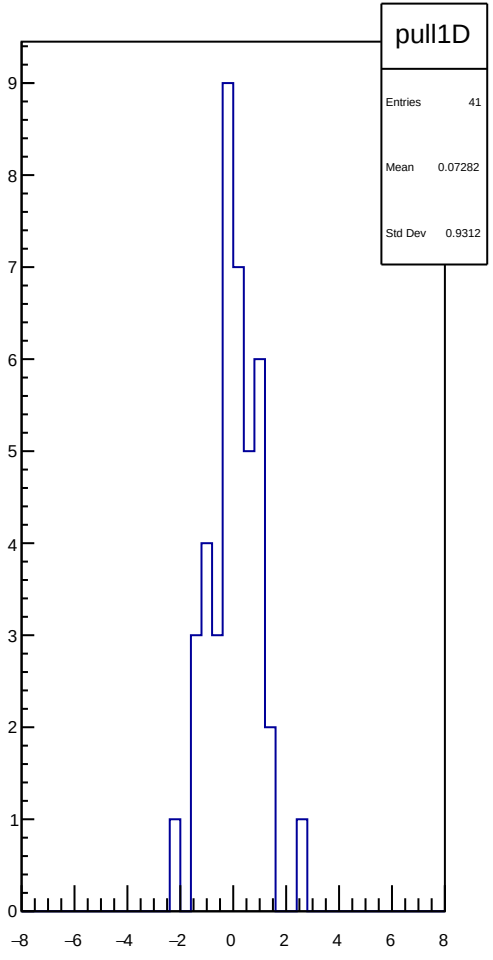

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2468 / 40
p0 1104 ± 1.233
1250
1200
1150
1100
1050
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

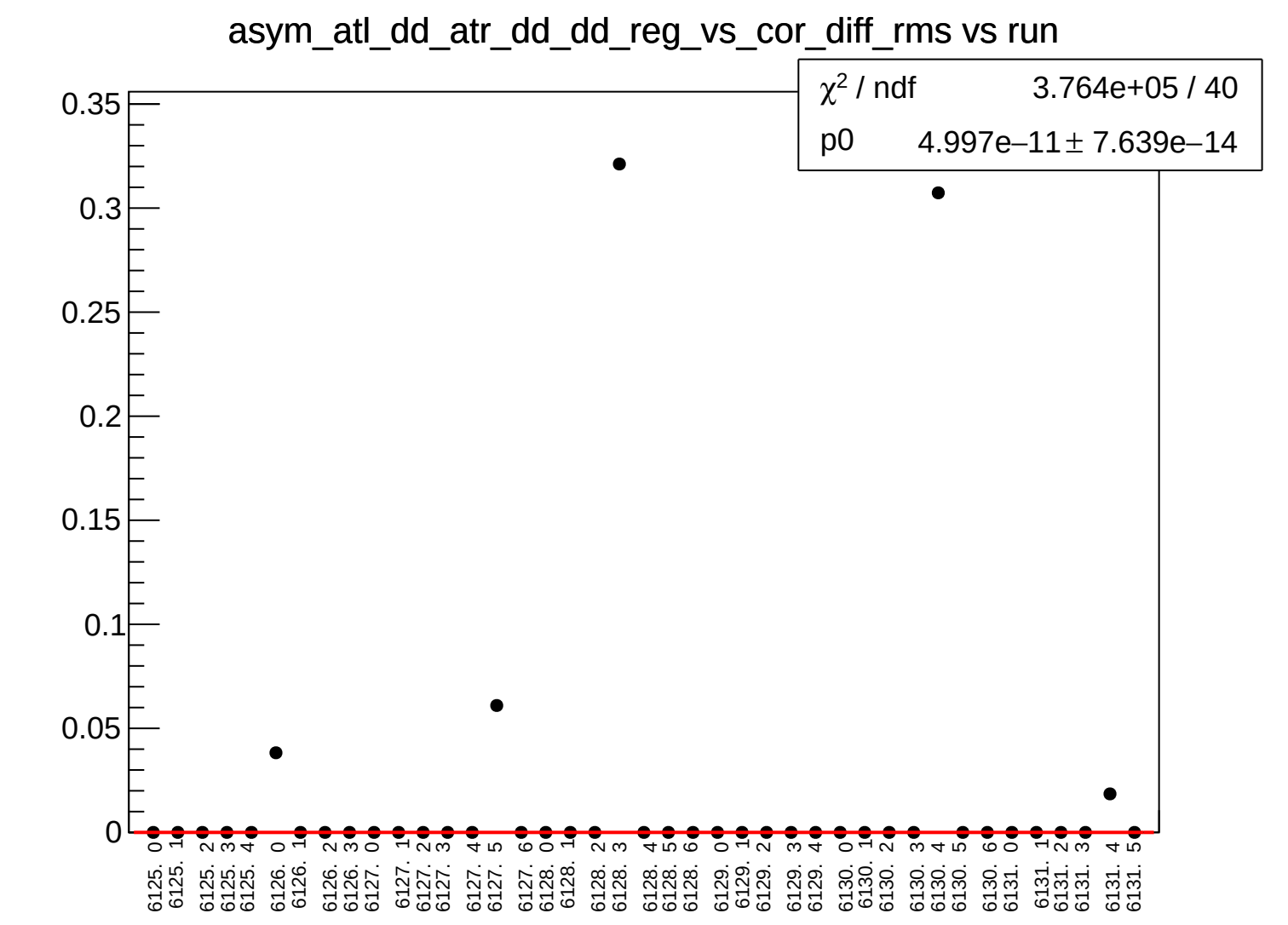

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 44.79 / 40
p0 −1319 ± 2587
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 463.5
Std Dev 0
3
2
1
0
−1
−2

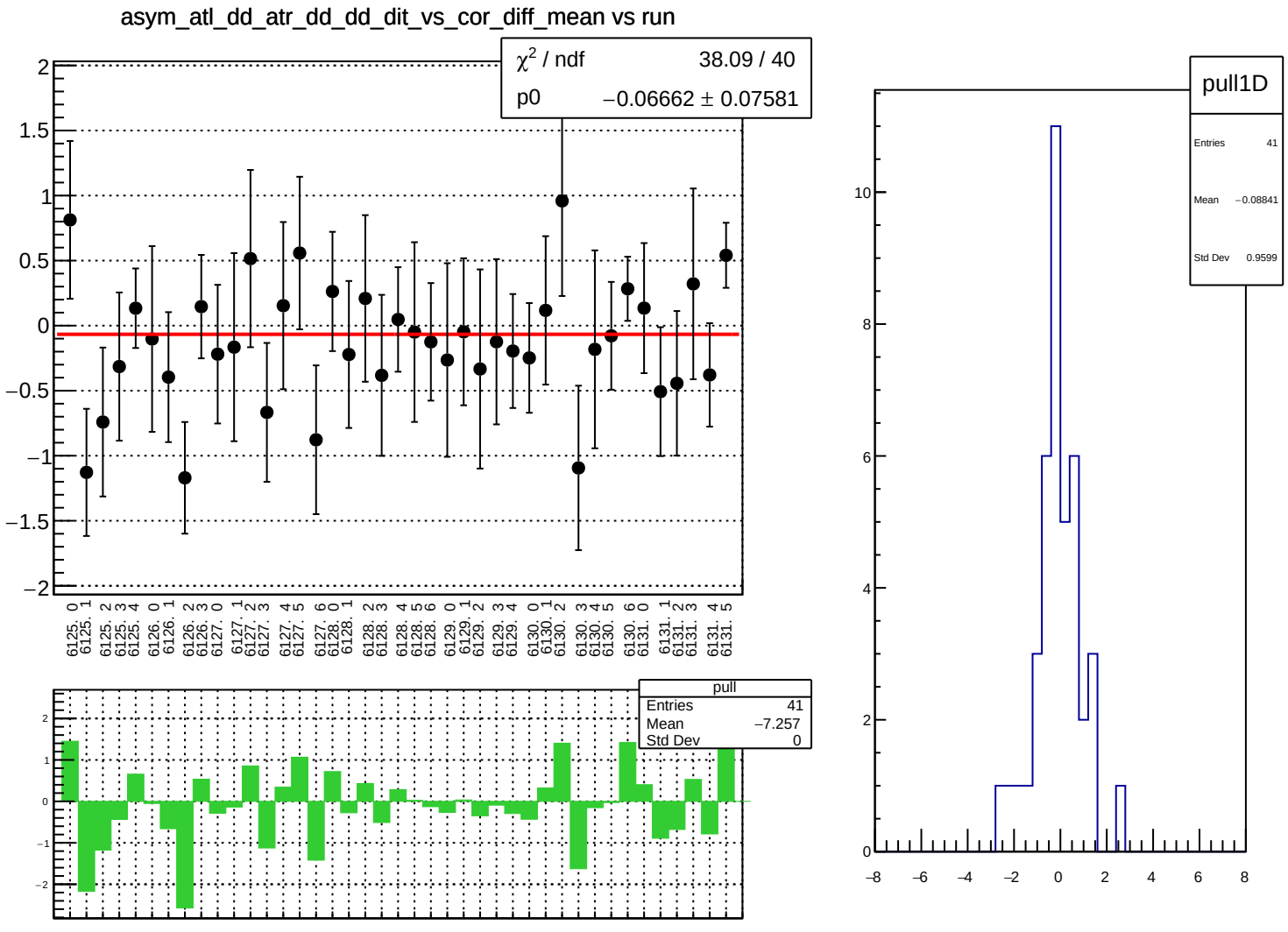

pull1D
Entries 41
Mean 0.006718
Std Dev 1.045
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

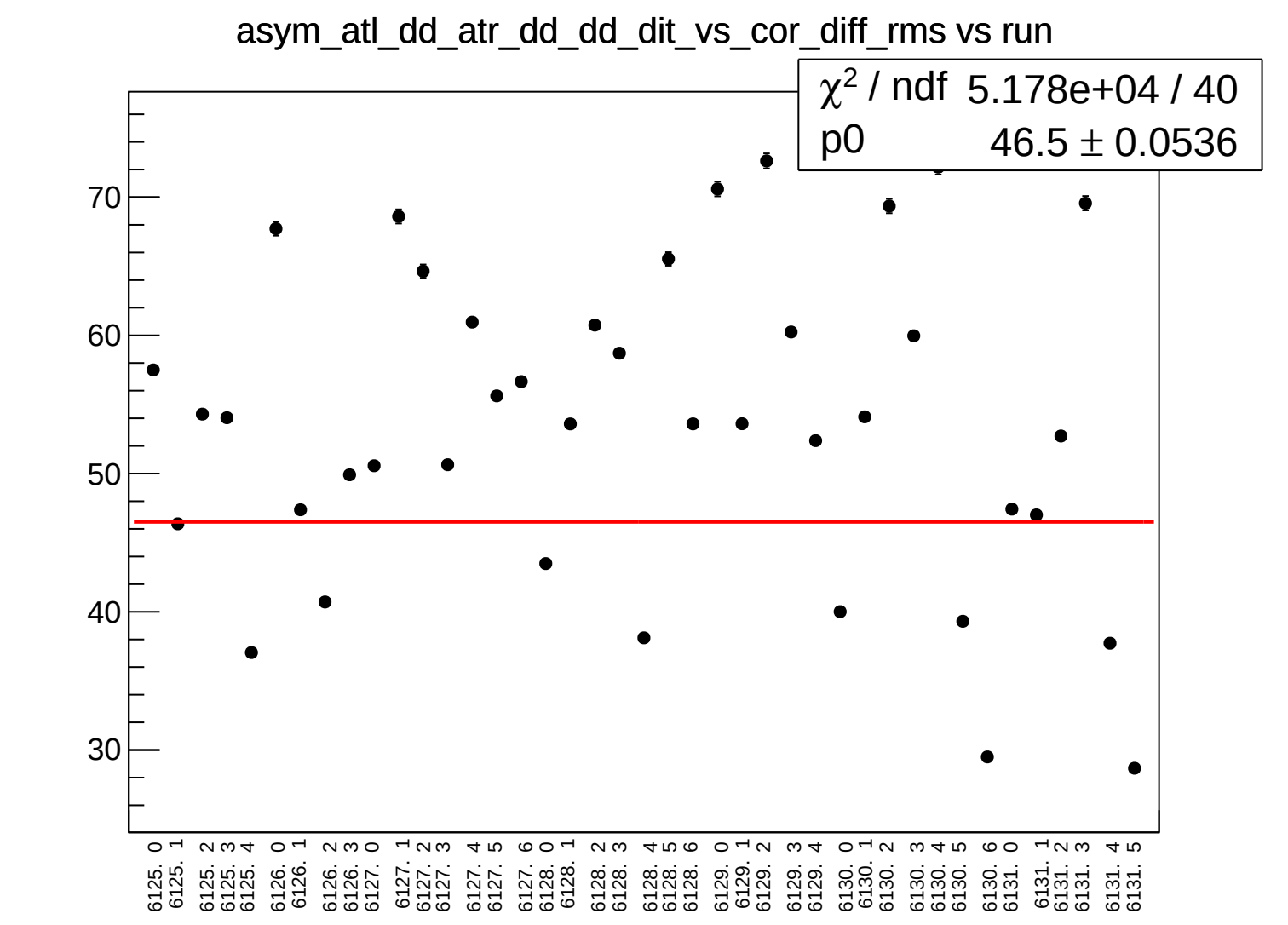

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 546 / 40
p0 1640 ± 1.829
1750
1700
1650
1600
1550
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

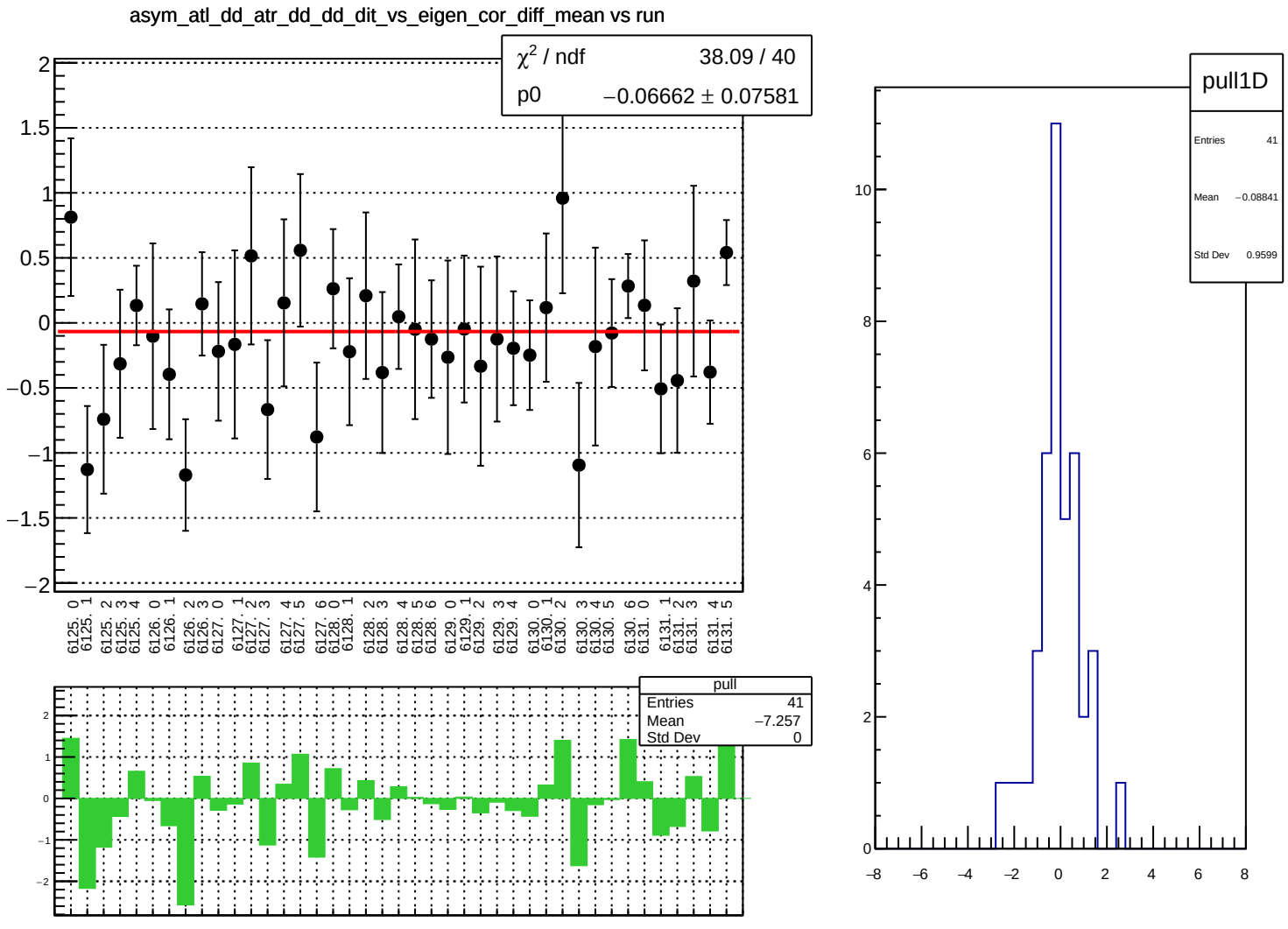

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 35.77 / 40
p0 1.693e−14 ± 1.08e−13
0.006
0.004
0.002
0
−0.002
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 8.203
Std Dev 19.82
3
2
1
0
−1
−2

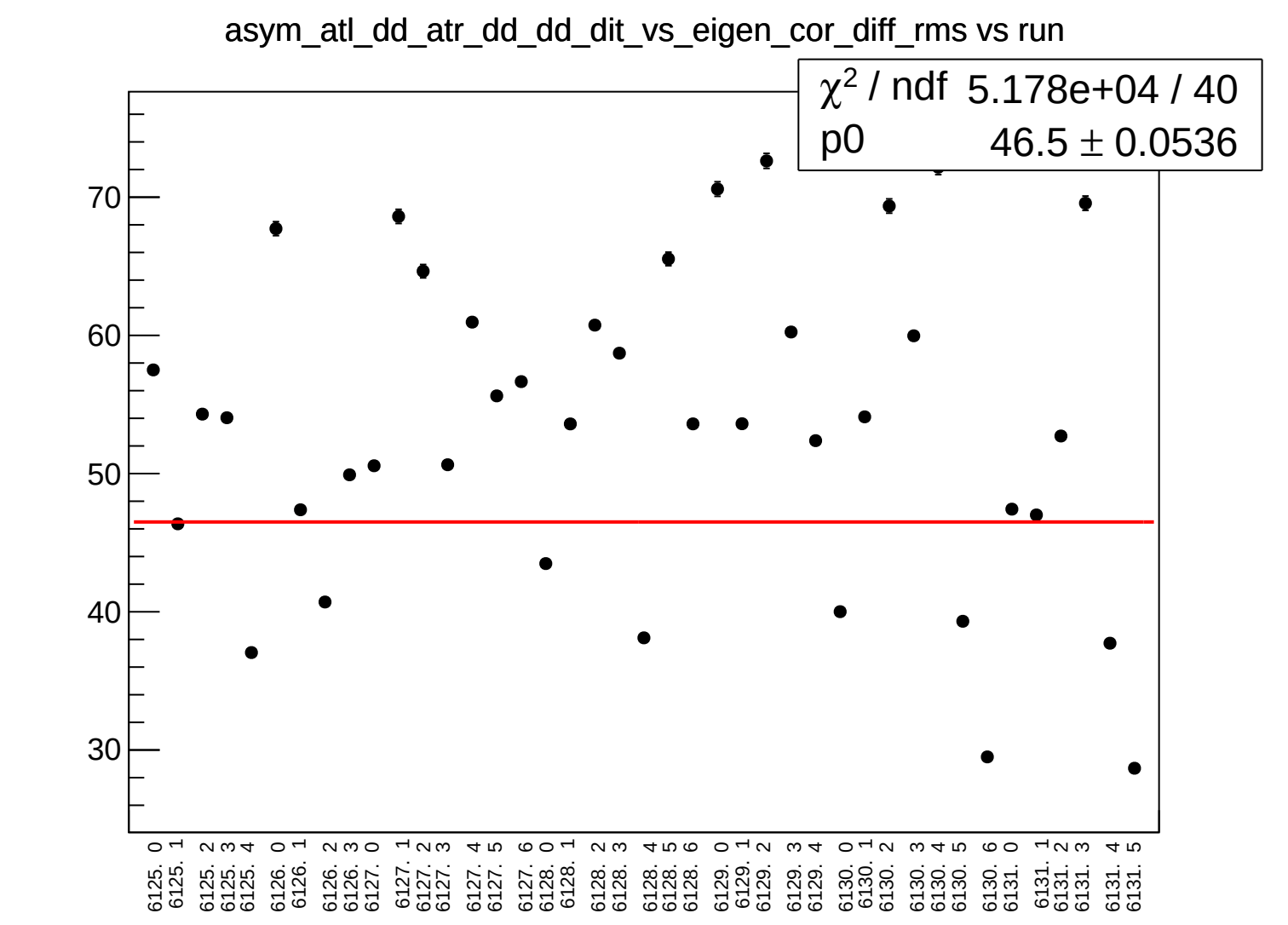

pull1D
Entries 41
Mean 0.07282
Std Dev 0.9312
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

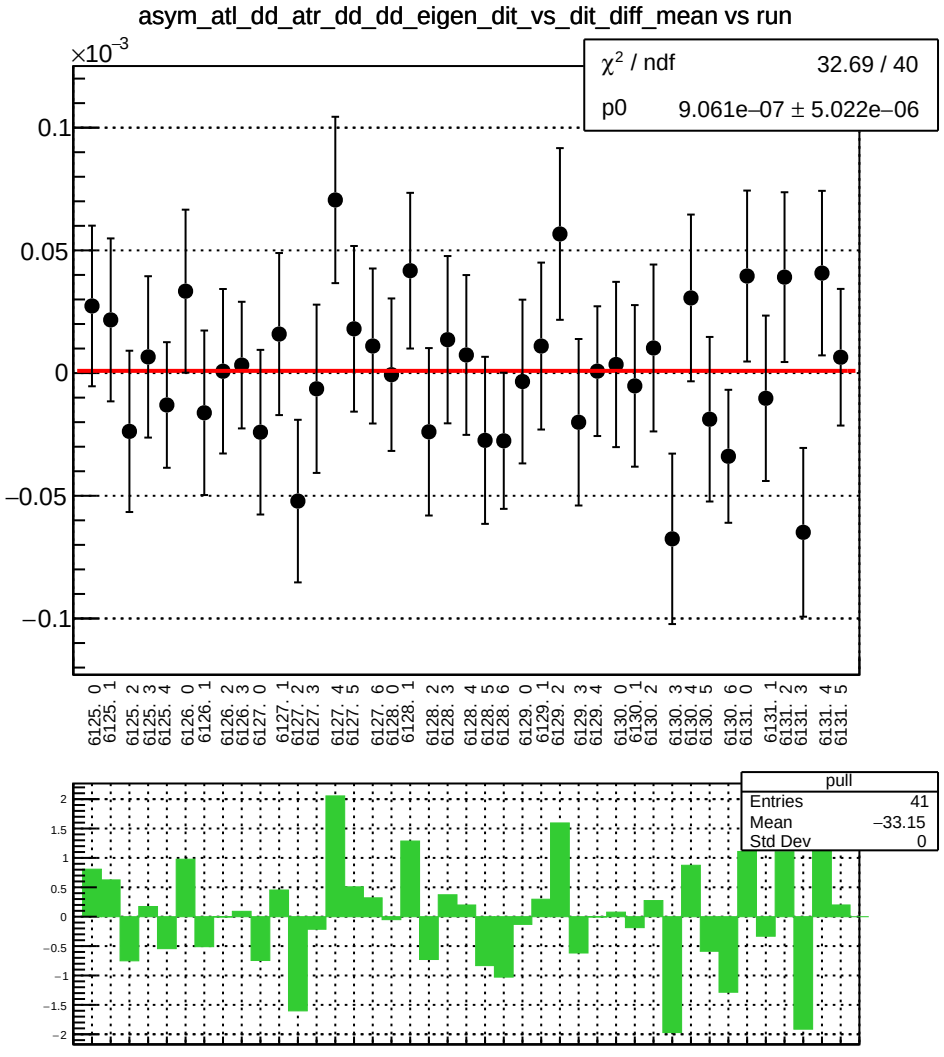

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.764e+05 / 40
p0 4.997e−11 ± 7.639e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

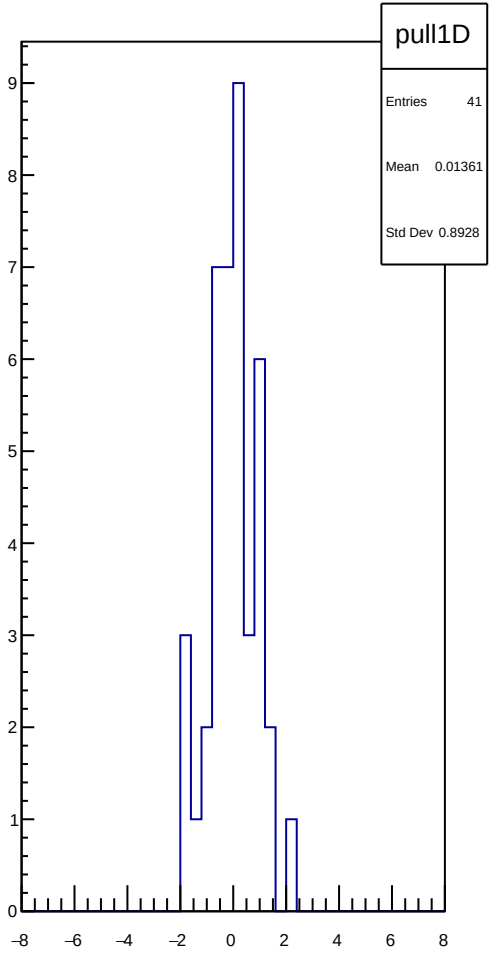

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 38.09 / 40
p0 −0.06662 ± 0.07581
pull
Entries 41
Mean −7.257
Std Dev 0
pull1D
Entries 41
Mean −0.08841
Std Dev 0.9599

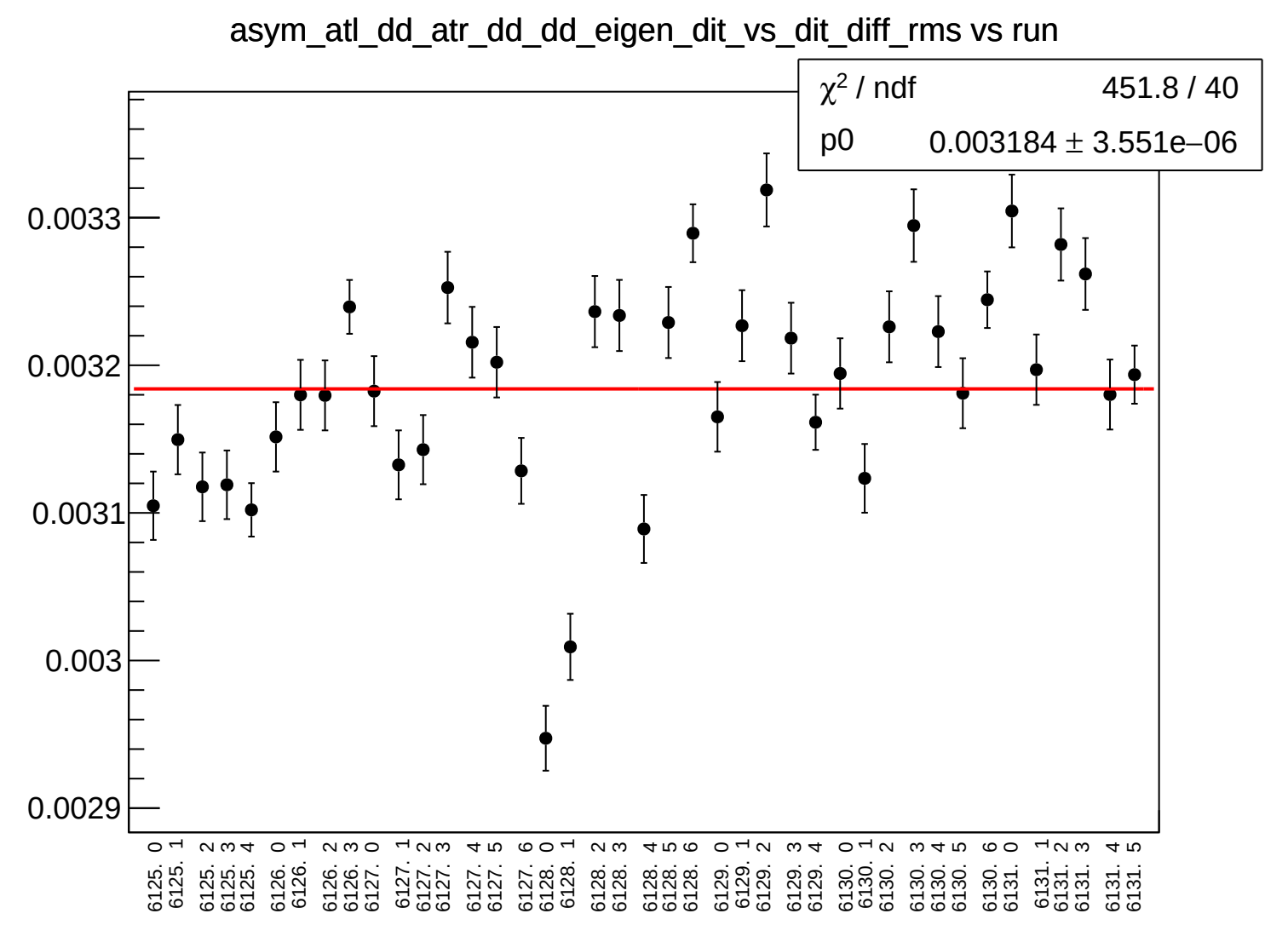

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.178e+04 / 40
p0 46.5 ± 0.0536
70
60
50
40
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

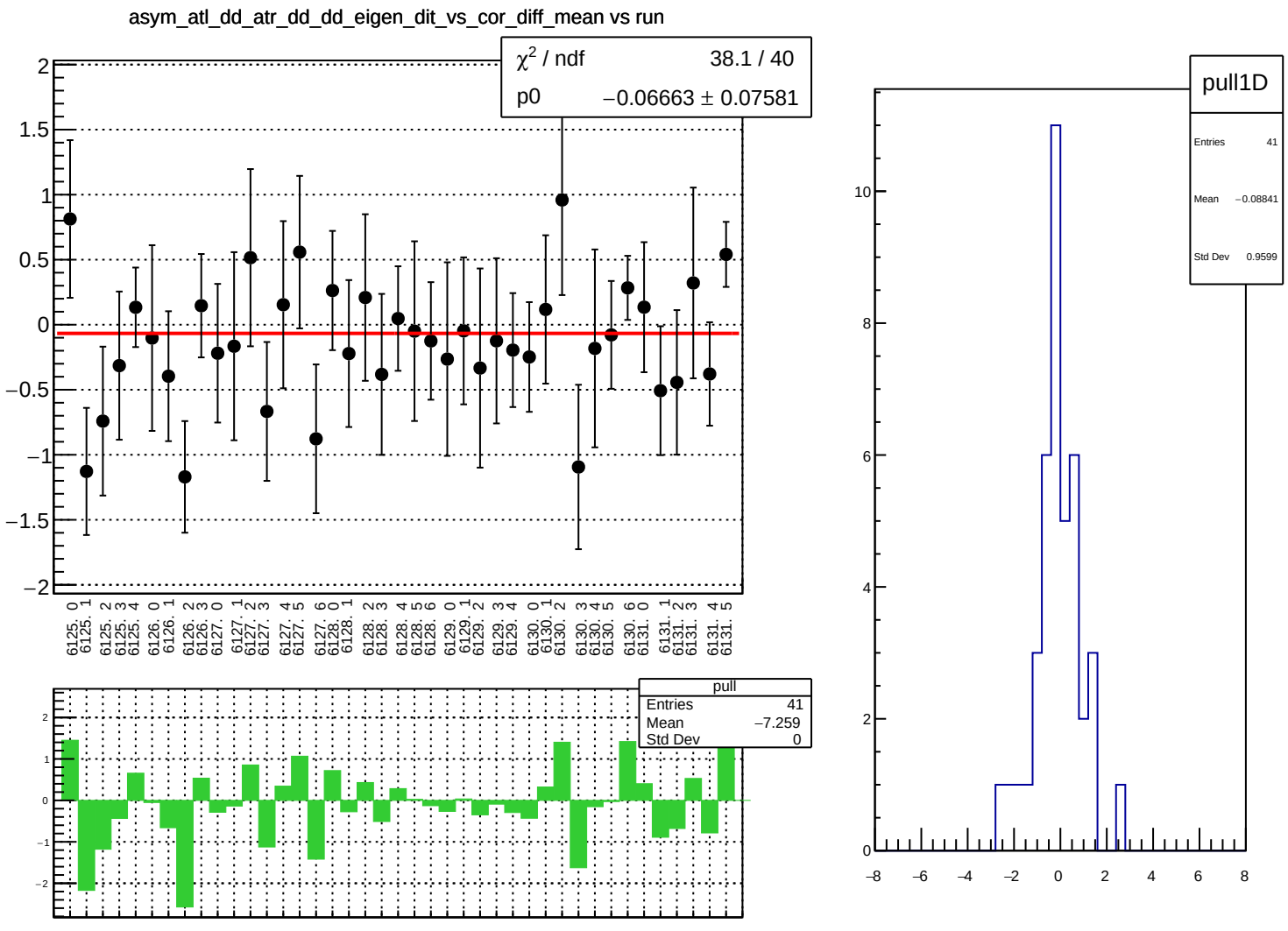

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.09 / 40
p0 −0.06662 ± 0.07581
pull
Entries 41
Mean −7.257
Std Dev 0
pull1D
Entries 41
Mean −0.08841
Std Dev 0.9599

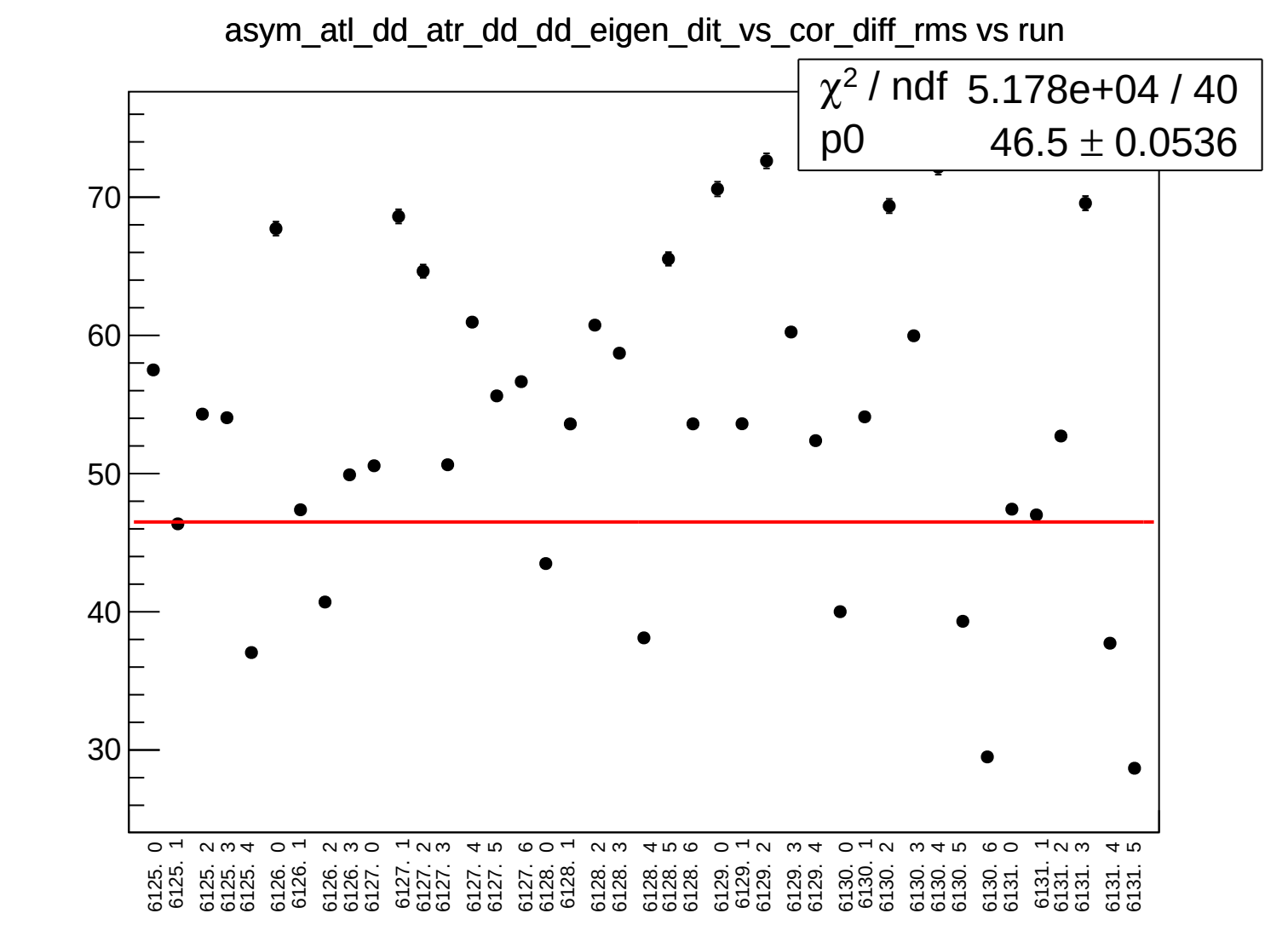

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.178e+04 / 40
p0 46.5 ± 0.0536
70
60
50
40
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

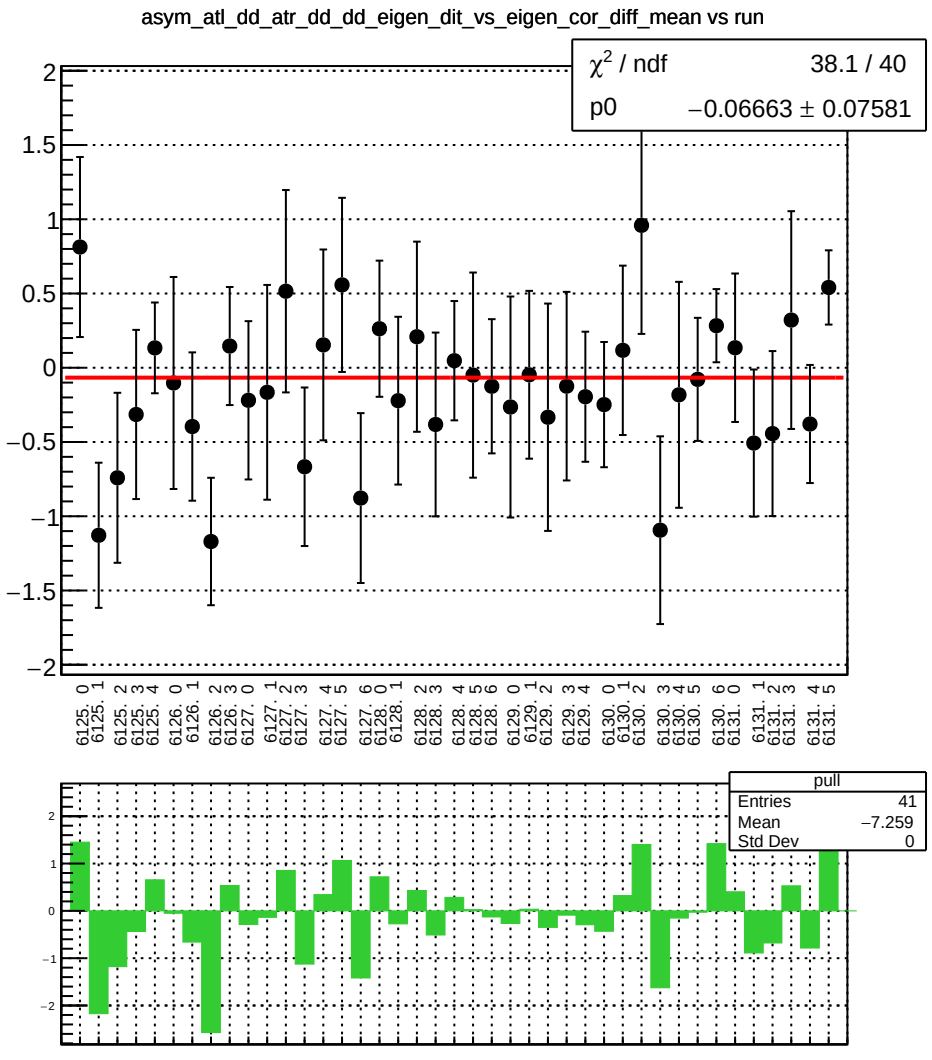

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.69 / 40
p0 9.061e−07 ± 5.022e−06
0.1
0.05
0
−0.05
−0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −33.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

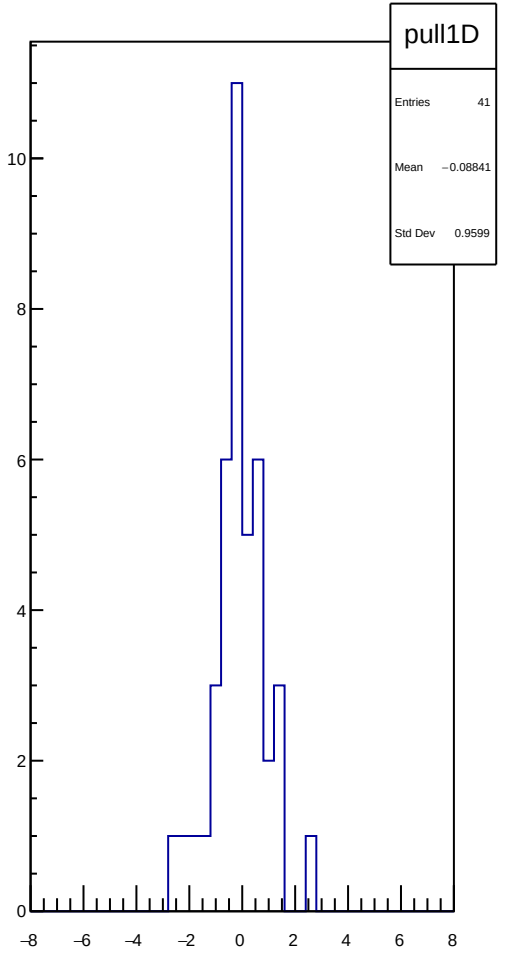

pull1D
Entries 41
Mean 0.01361
Std Dev 0.8928
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

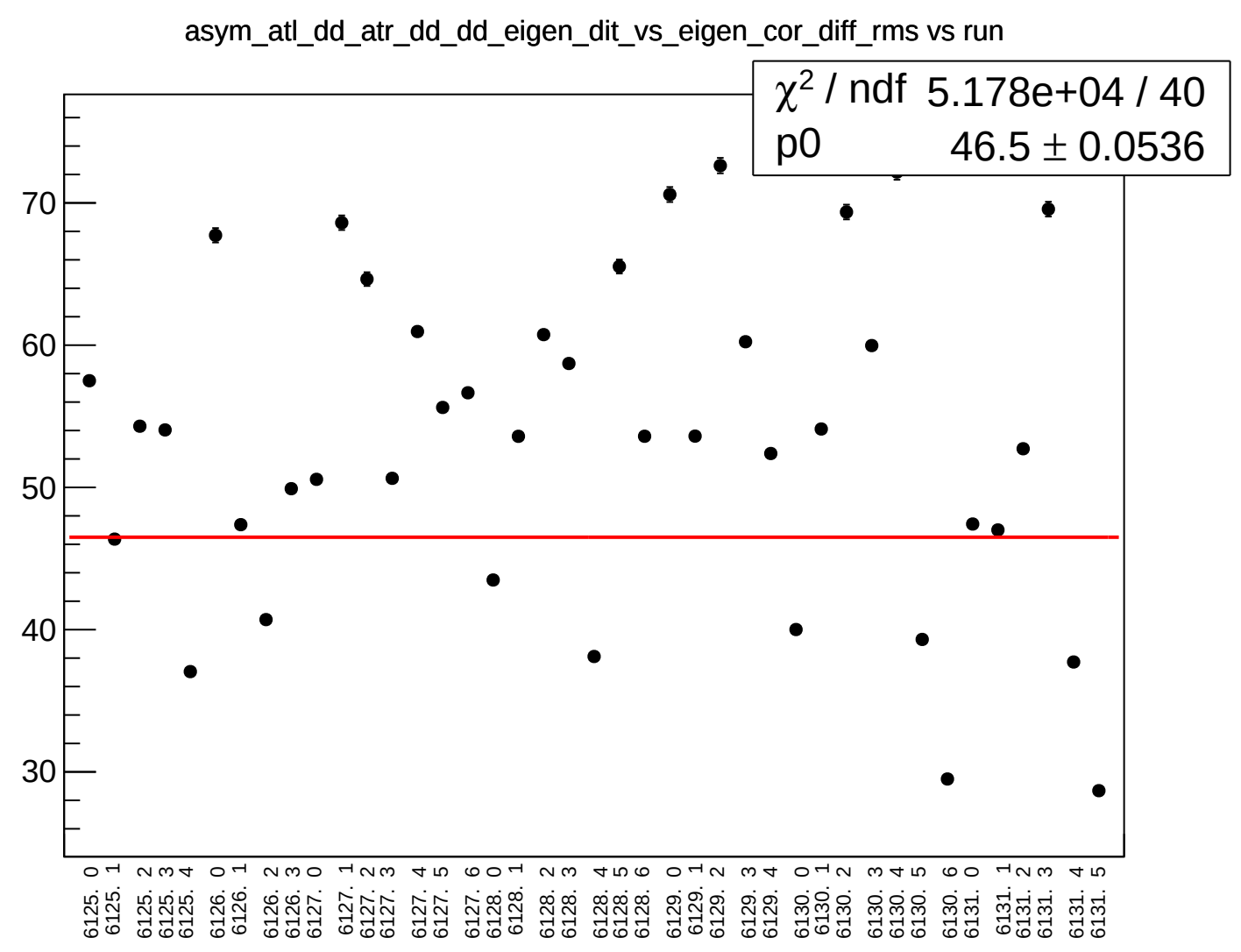

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 451.8 / 40
p0 0.003184 ± 3.551e−06
0.0033
0.0032
0.0031
0.003
0.0029
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

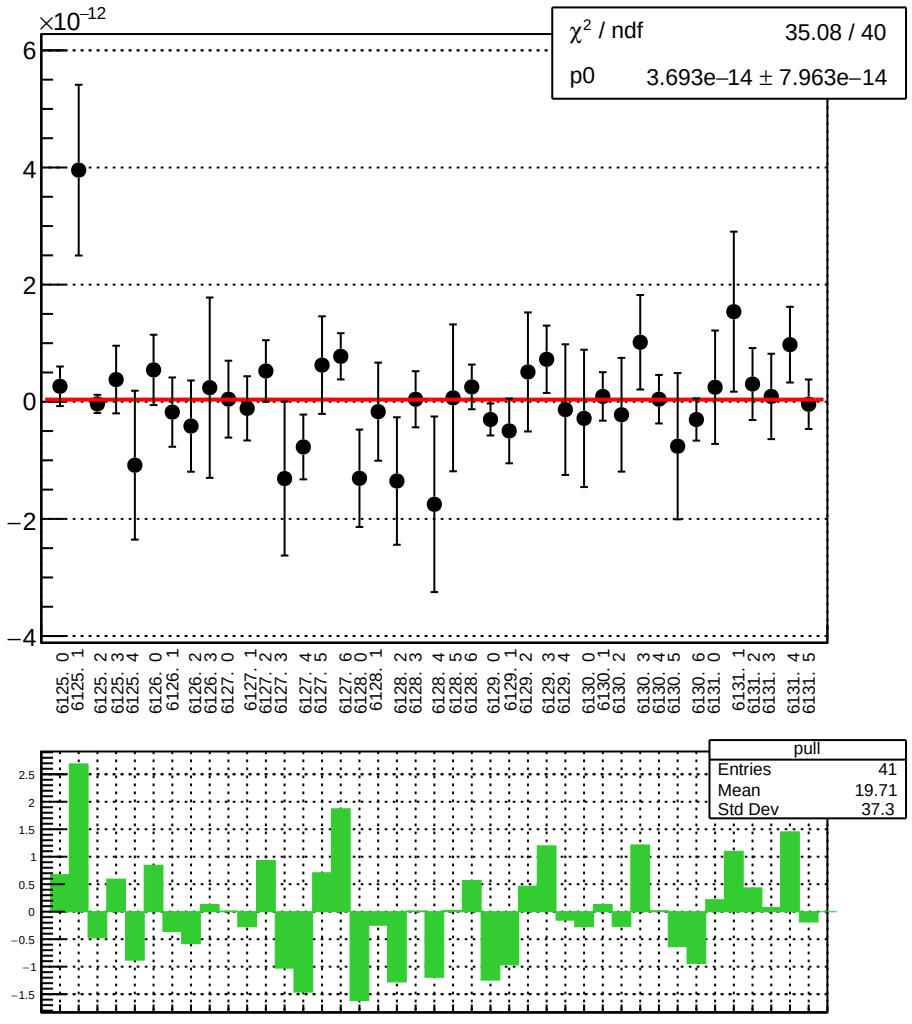

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.1 / 40
p0 −0.06663 ± 0.07581
pull
Entries 41
Mean −7.259
Std Dev 0
pull1D
Entries 41
Mean −0.08841
Std Dev 0.9599

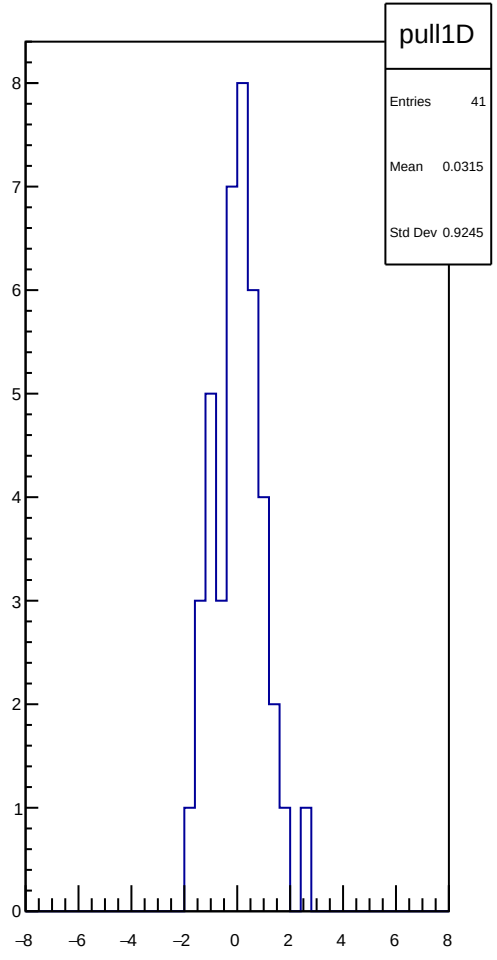

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.178e+04 / 40
p0 46.5 ± 0.0536
70
60
50
40
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

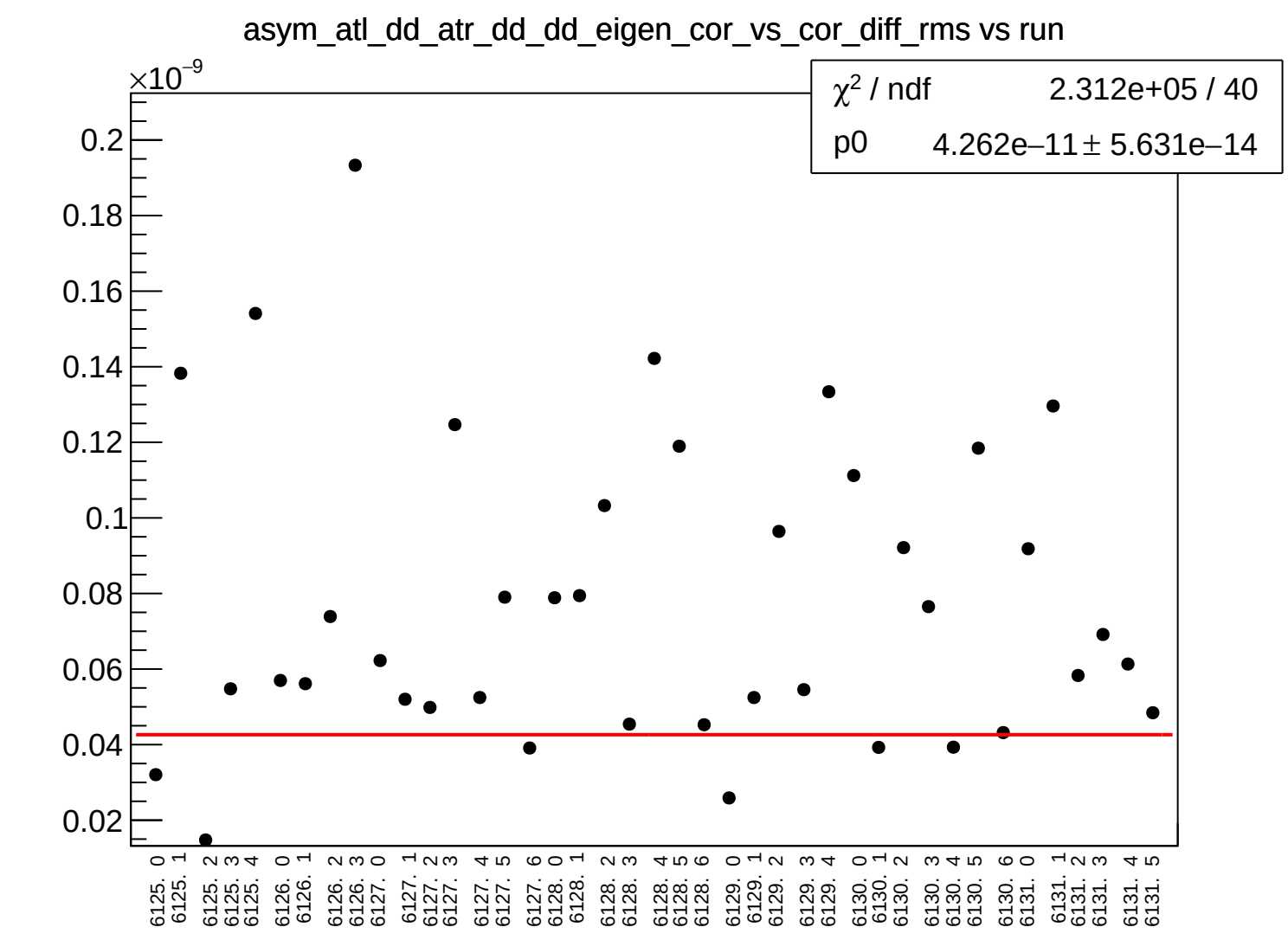

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.1 / 40
p0 −0.06663 ± 0.07581
pull
Entries 41
Mean −7.259
Std Dev 0

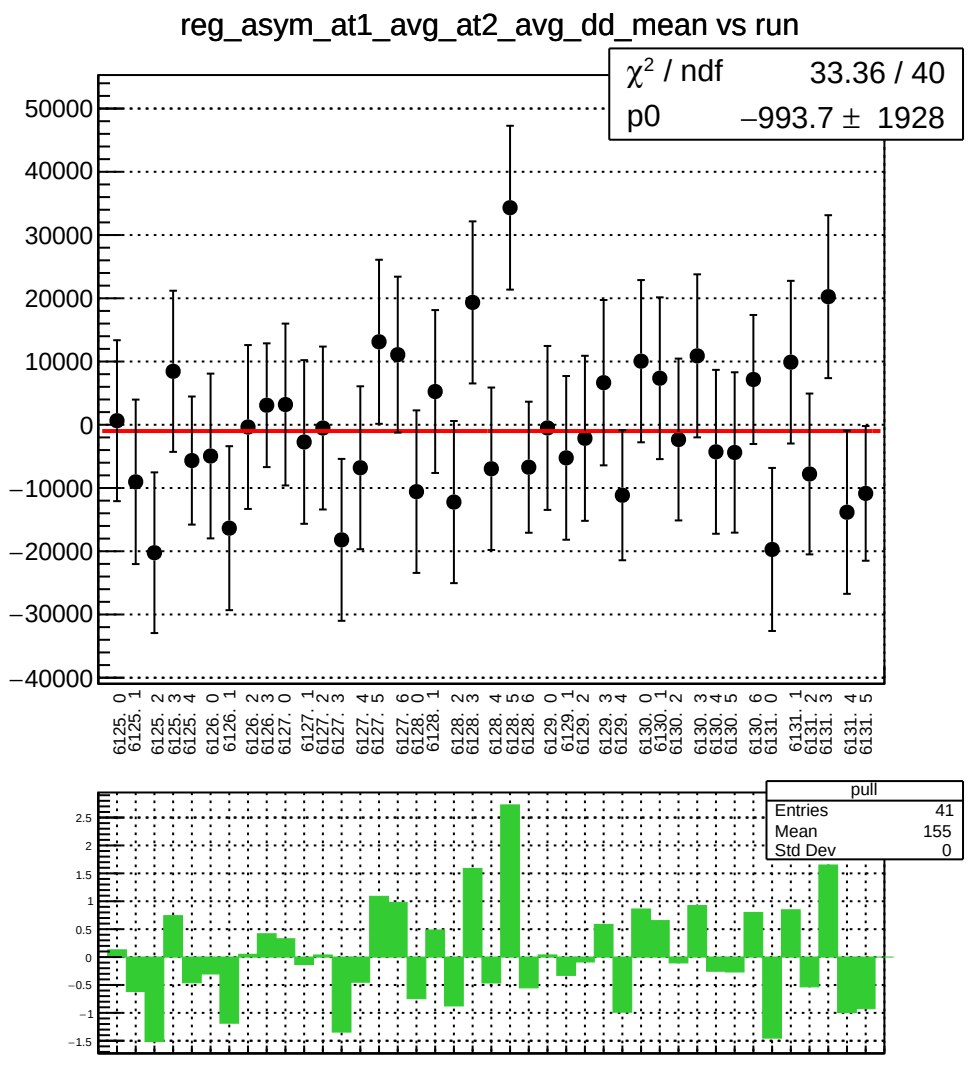

pull1D
Entries 41
Mean −0.08841
Std Dev 0.9599

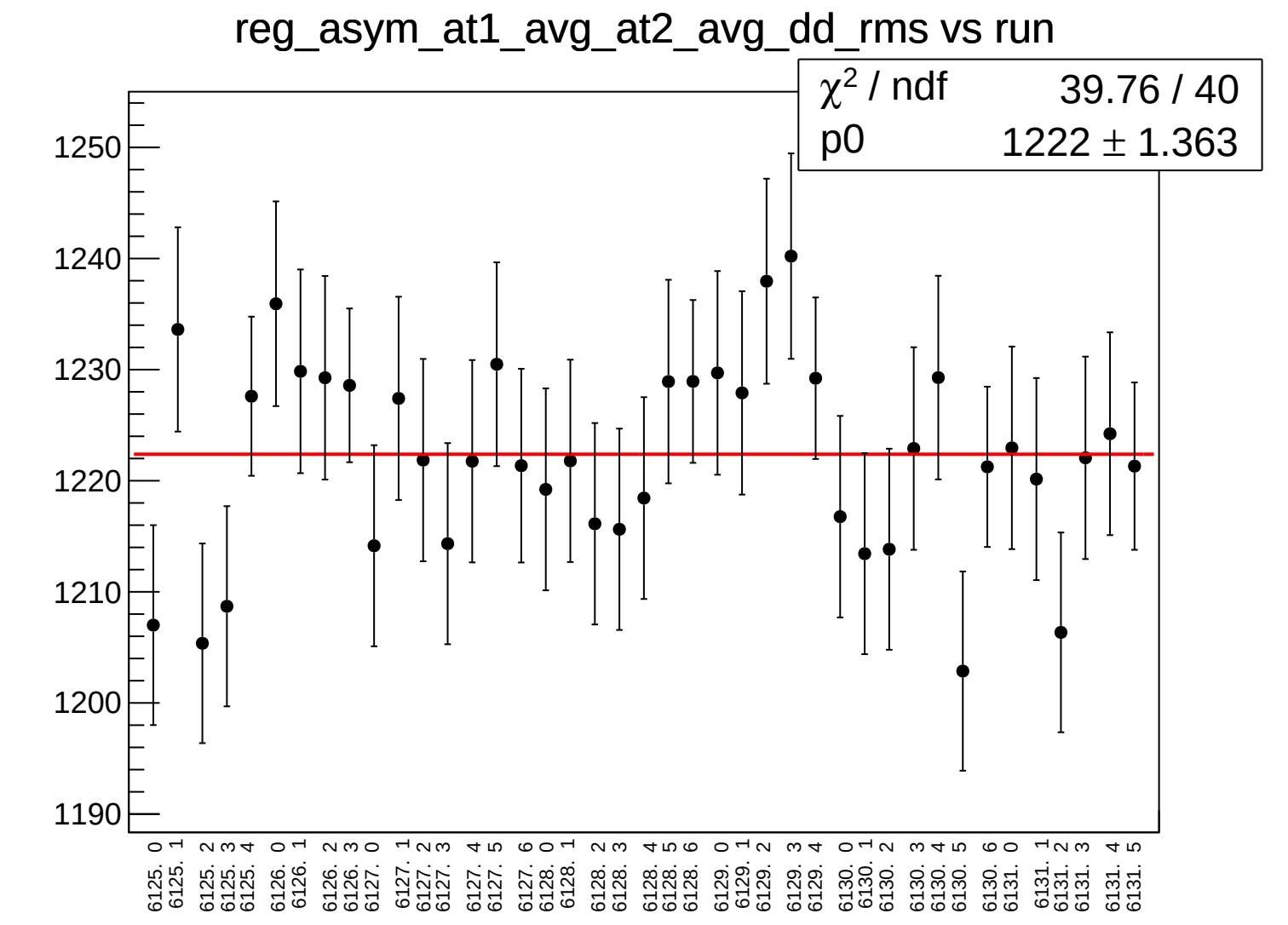

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.178e+04 / 40
p0 46.5 ± 0.0536
70
60
50
40
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

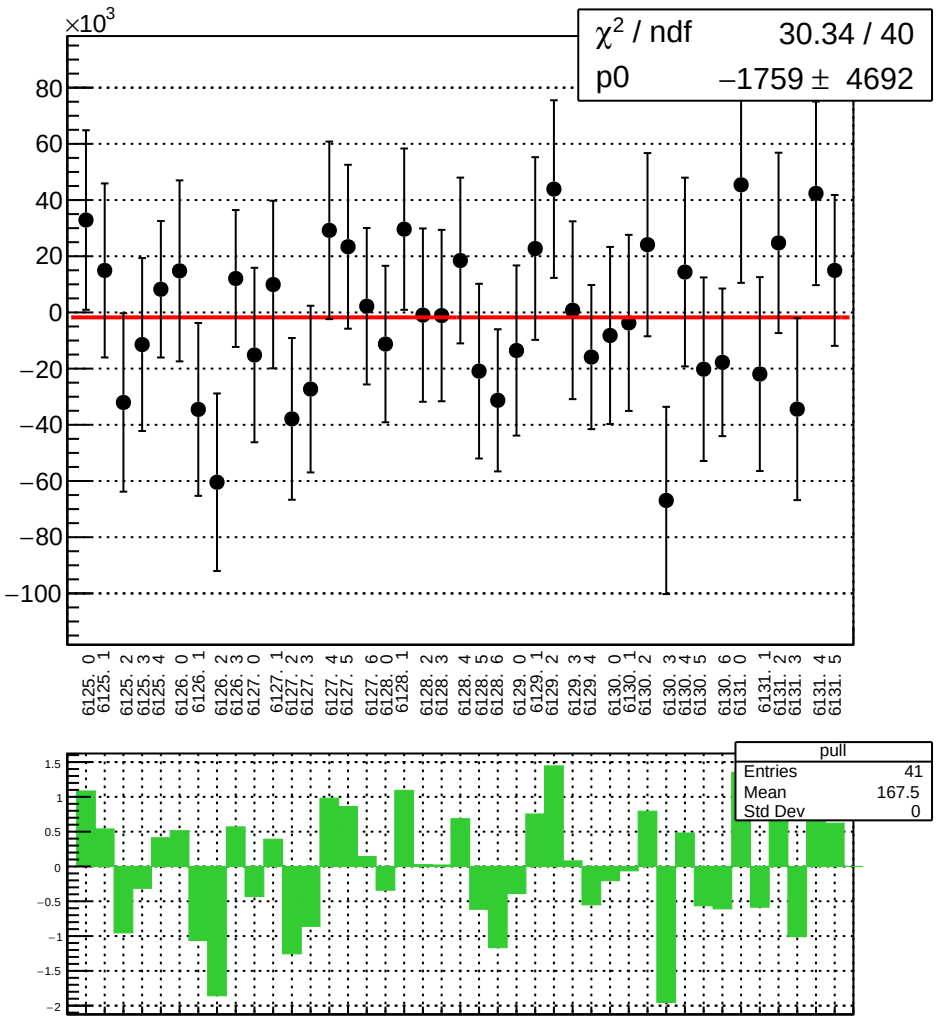

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 35.08 / 40
p0 3.693e−14 ± 7.963e−14
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 19.71
Std Dev 37.3

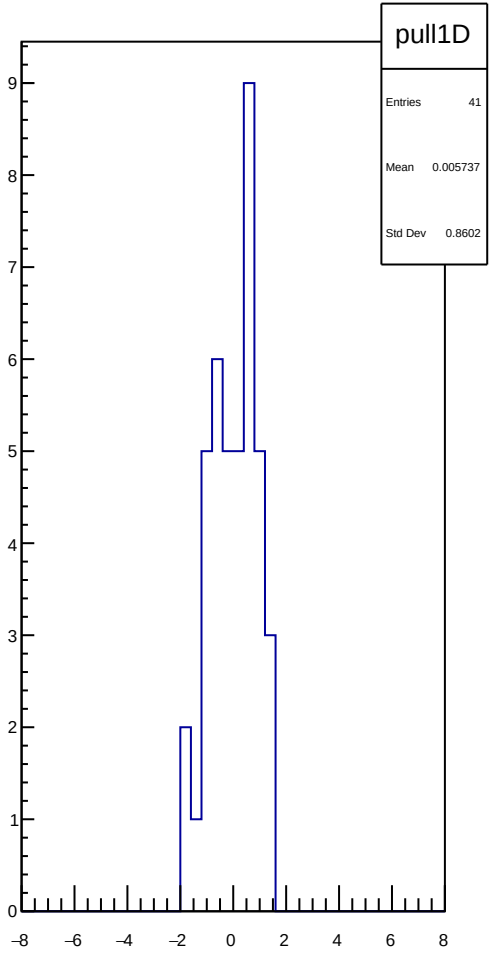

pull1D
Entries 41
Mean 0.0315
Std Dev 0.9245

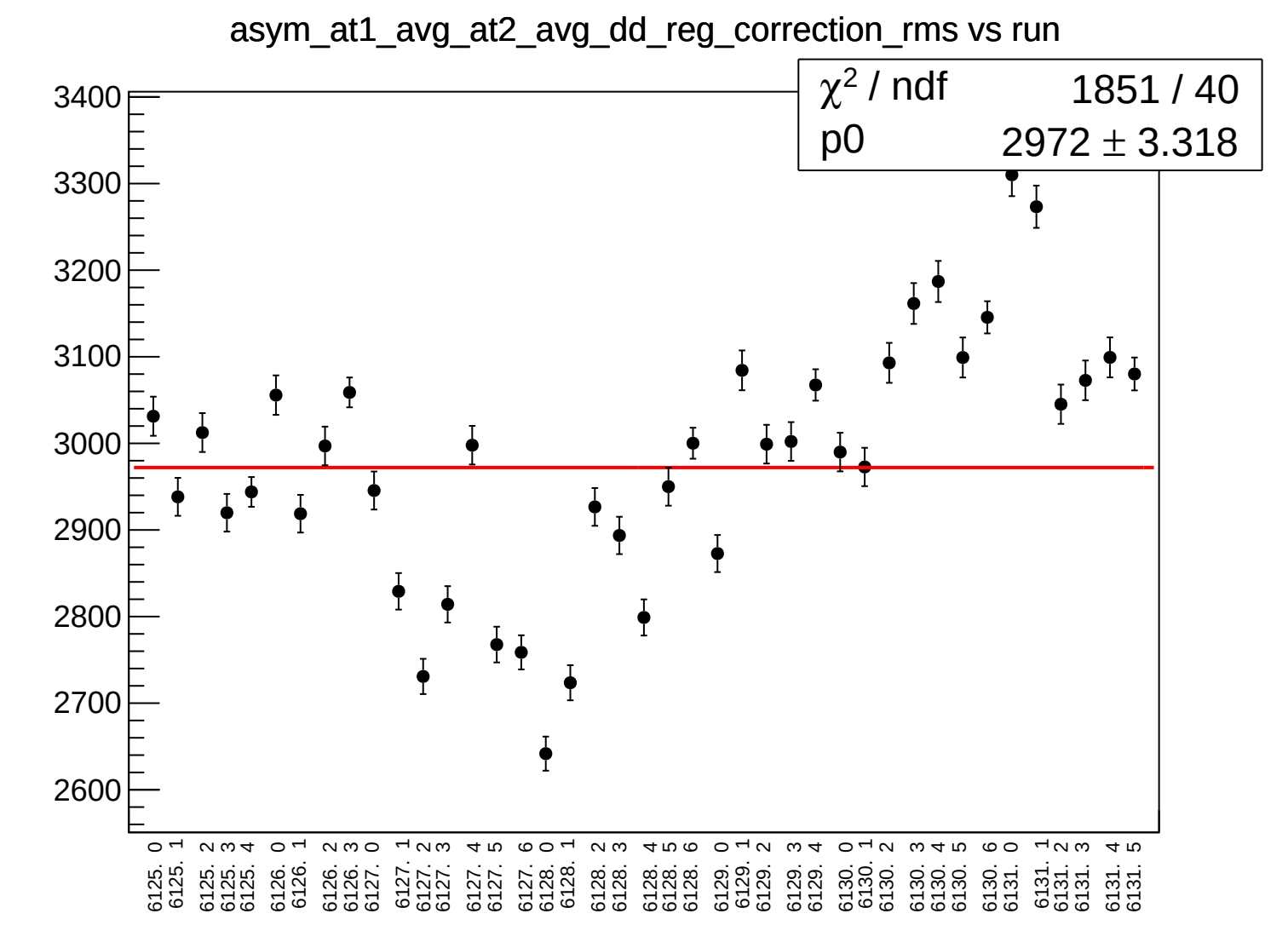

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.312e+05 / 40
p0 4.262e−11 ± 5.631e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

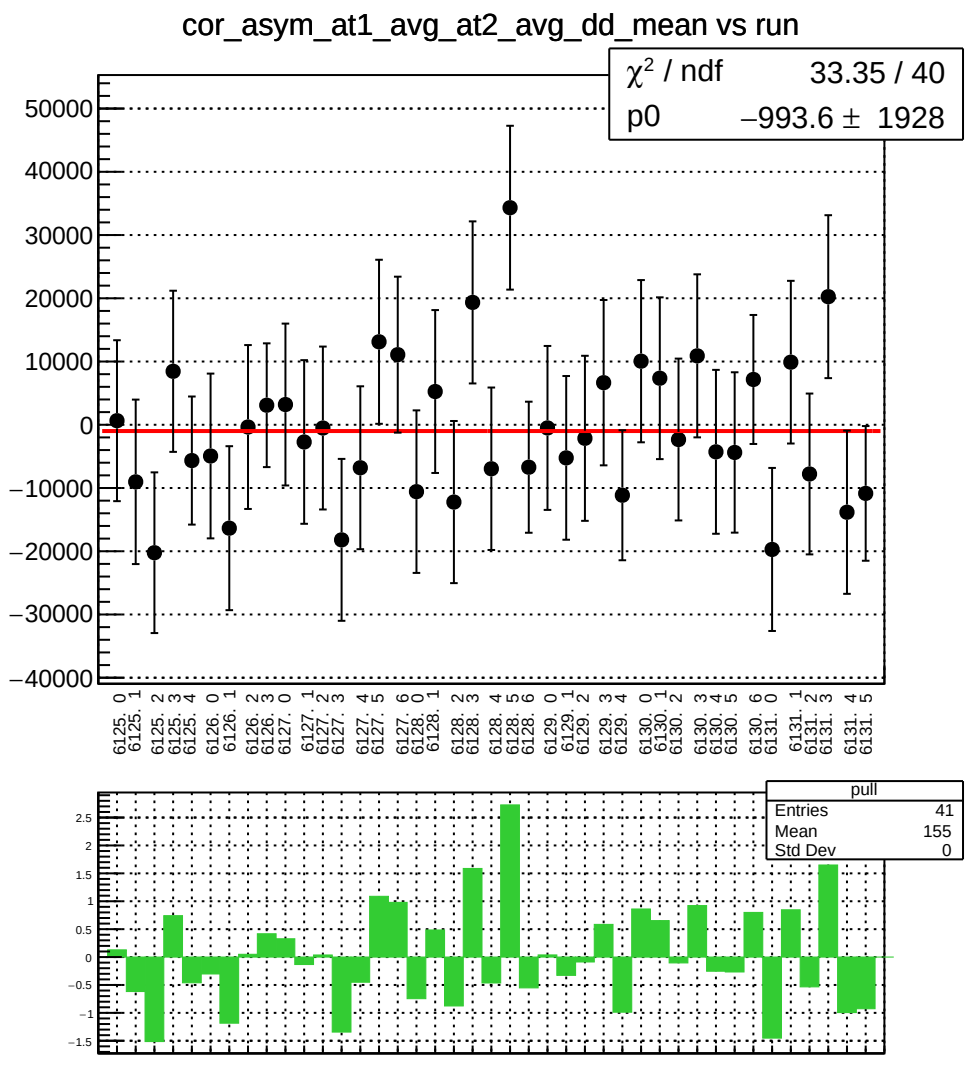

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 33.36 / 40
p0 −993.7 ± 1928
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 155
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.008402
Std Dev 0.9019
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

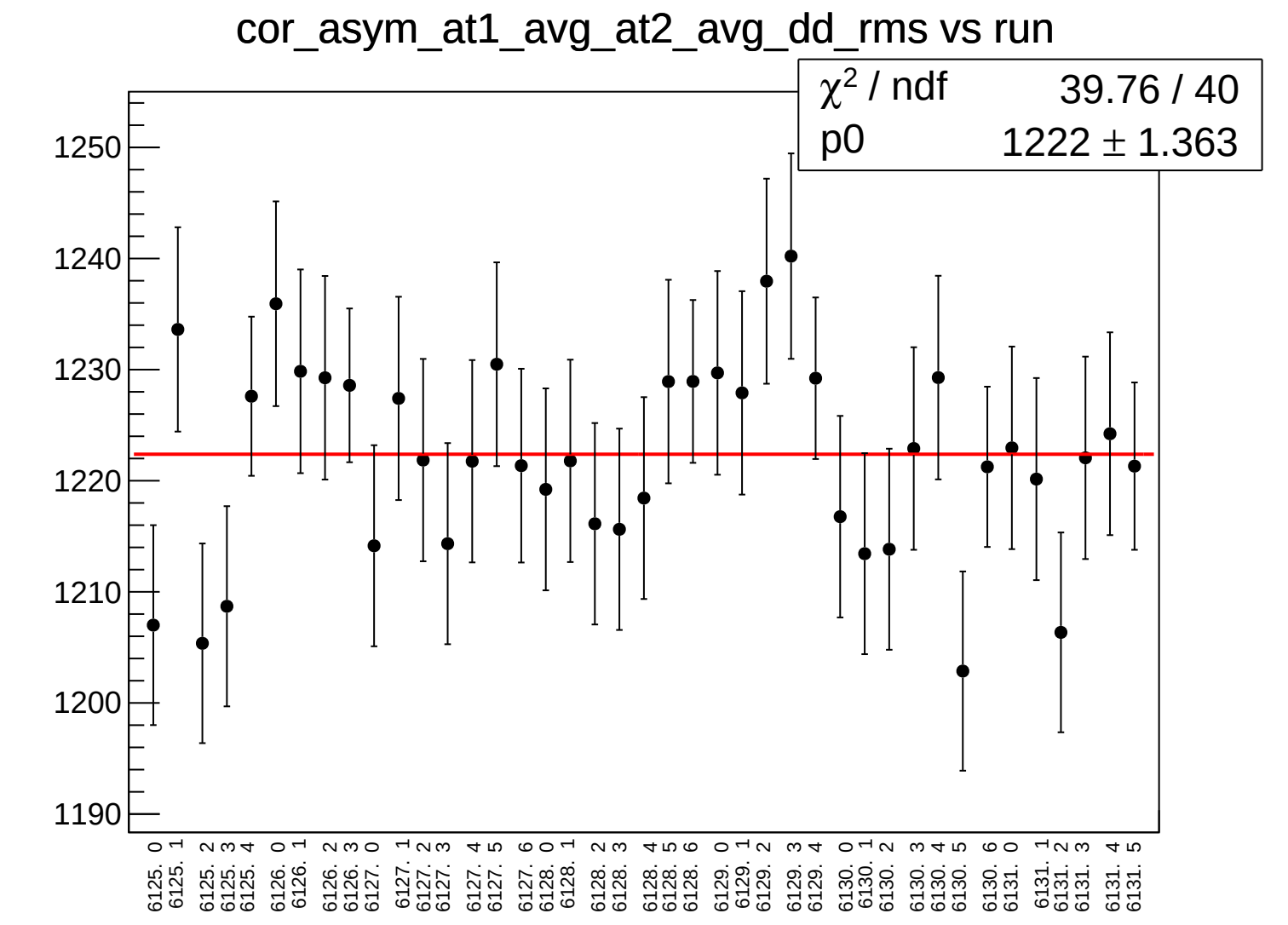

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 39.76 / 40
p0 1222 ± 1.363
1250
1240
1230
1220
1210
1200
1190
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

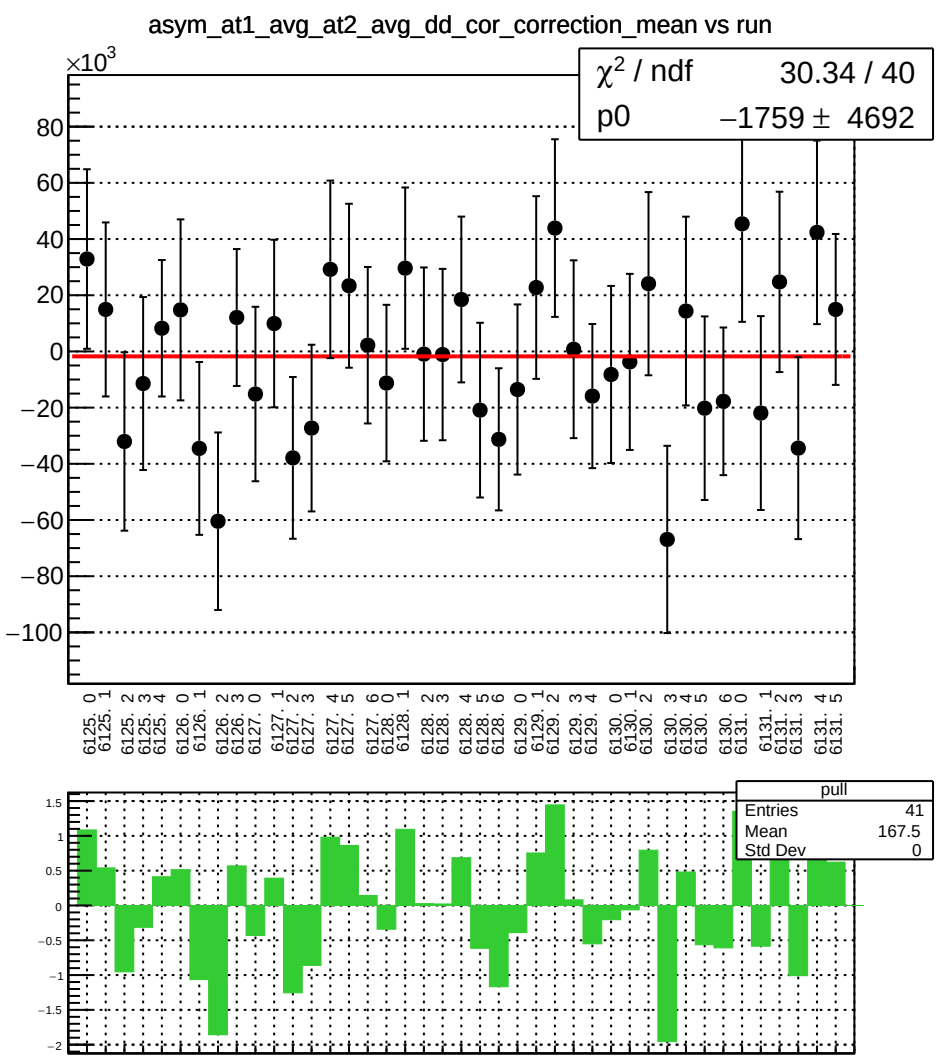

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
χ² / ndf 30.34 / 40
p0 −1759 ± 4692
pull
Entries 41
Mean 167.5
Std Dev 0

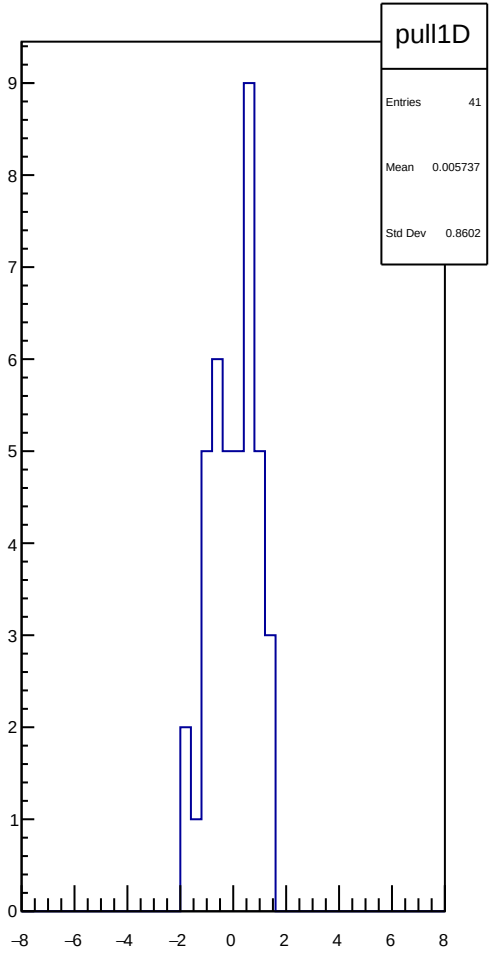

pull1D
Entries 41
Mean 0.005737
Std Dev 0.8602

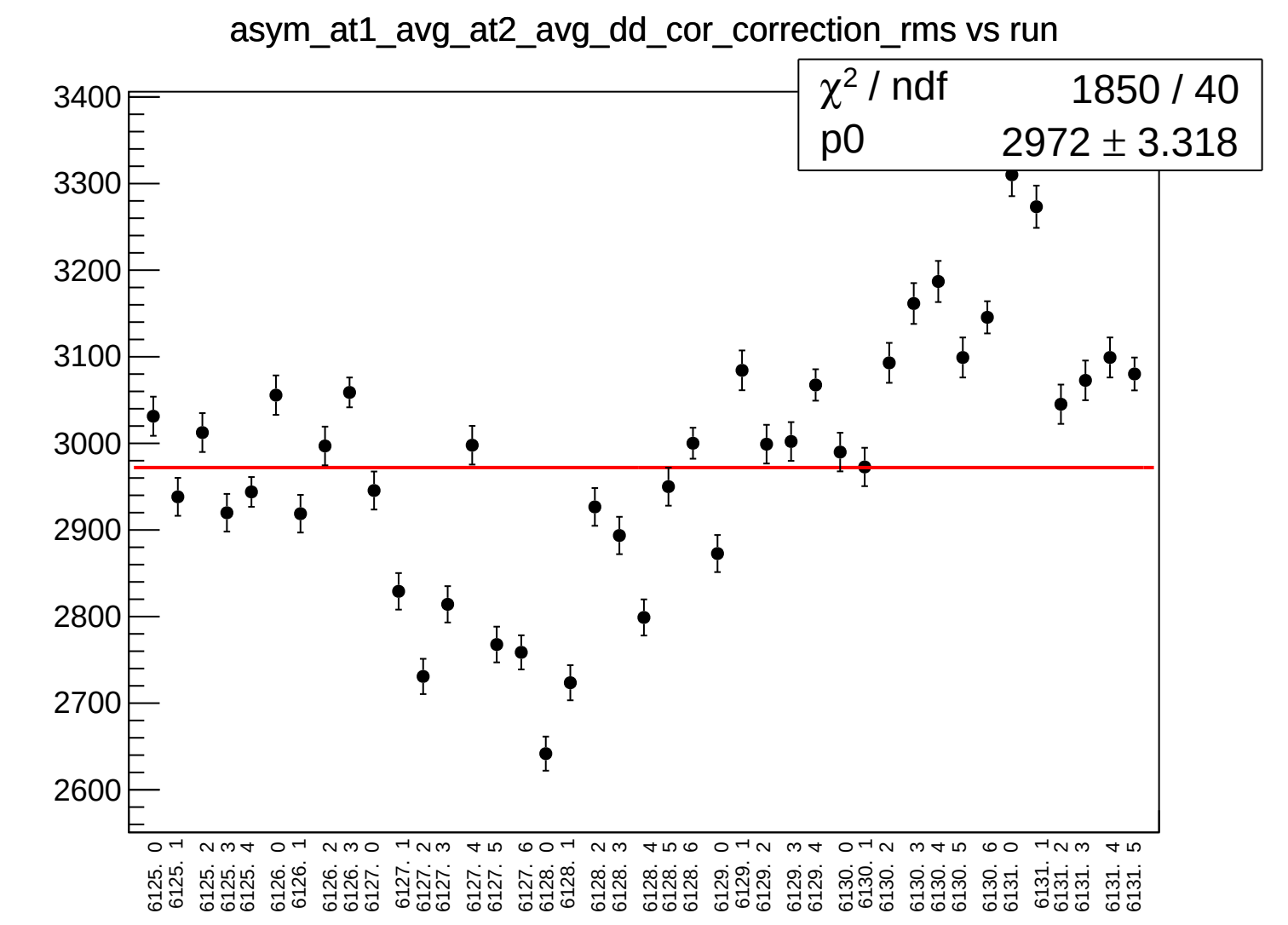

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 1851 / 40
p0 2972 ± 3.318
3400
3300
3200
3100
3000
2900
2800
2700
2600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

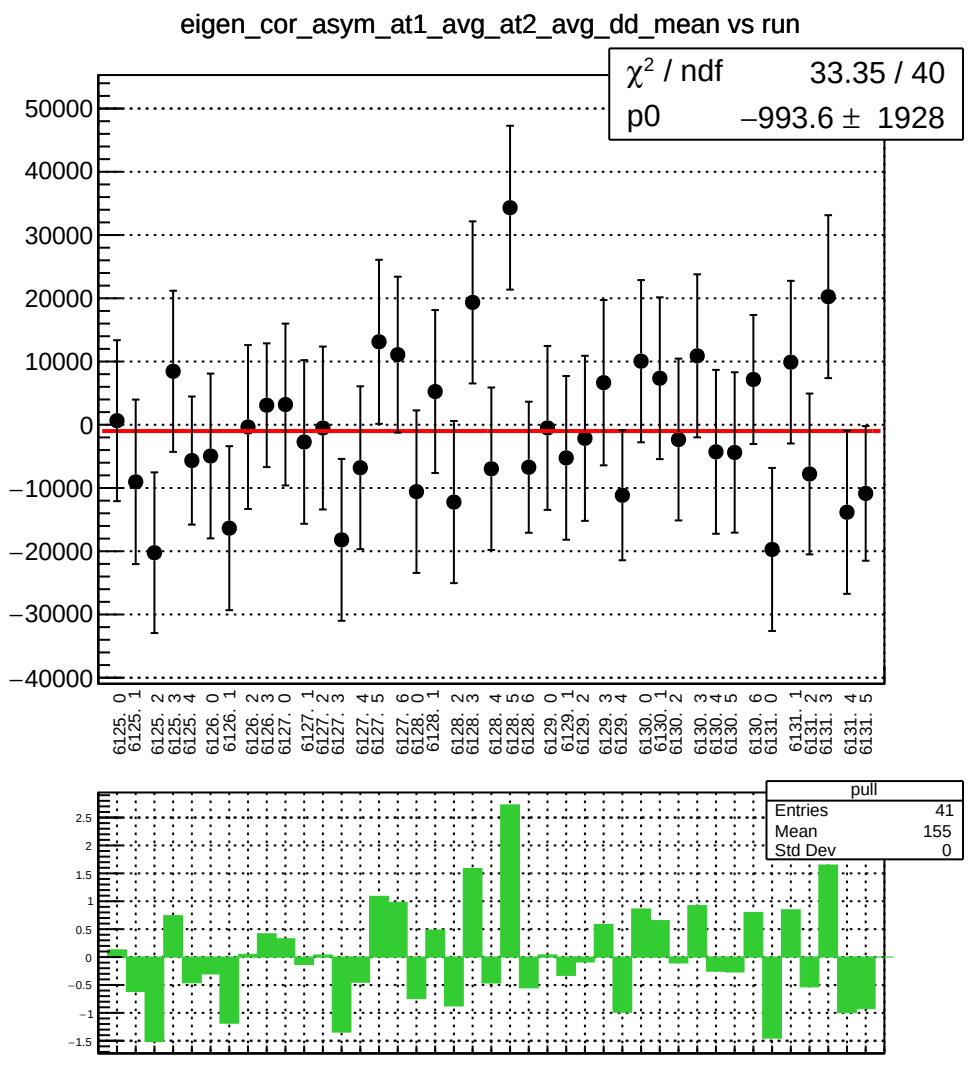

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 33.35 / 40
p0 −993.6 ± 1928
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 155
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.008402
Std Dev 0.9019
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

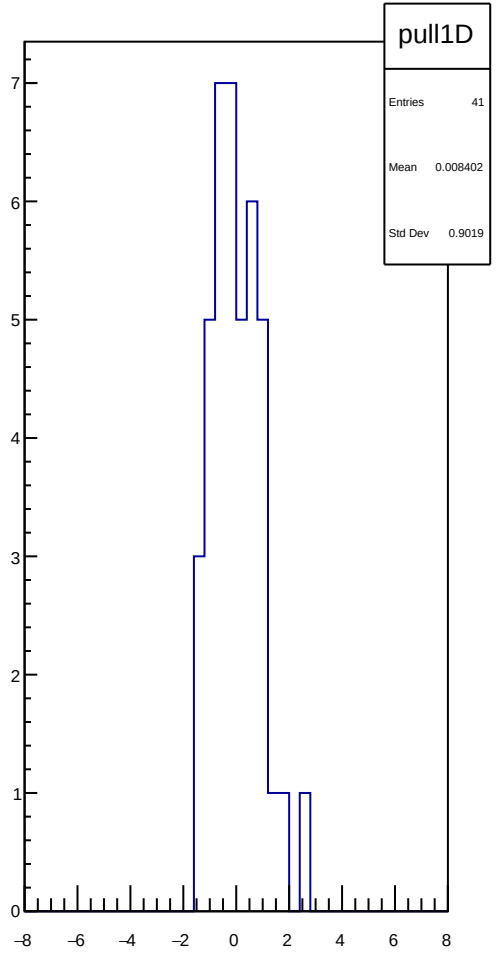

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 39.76 / 40
p0 1222 ± 1.363
1250
1240
1230
1220
1210
1200
1190
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

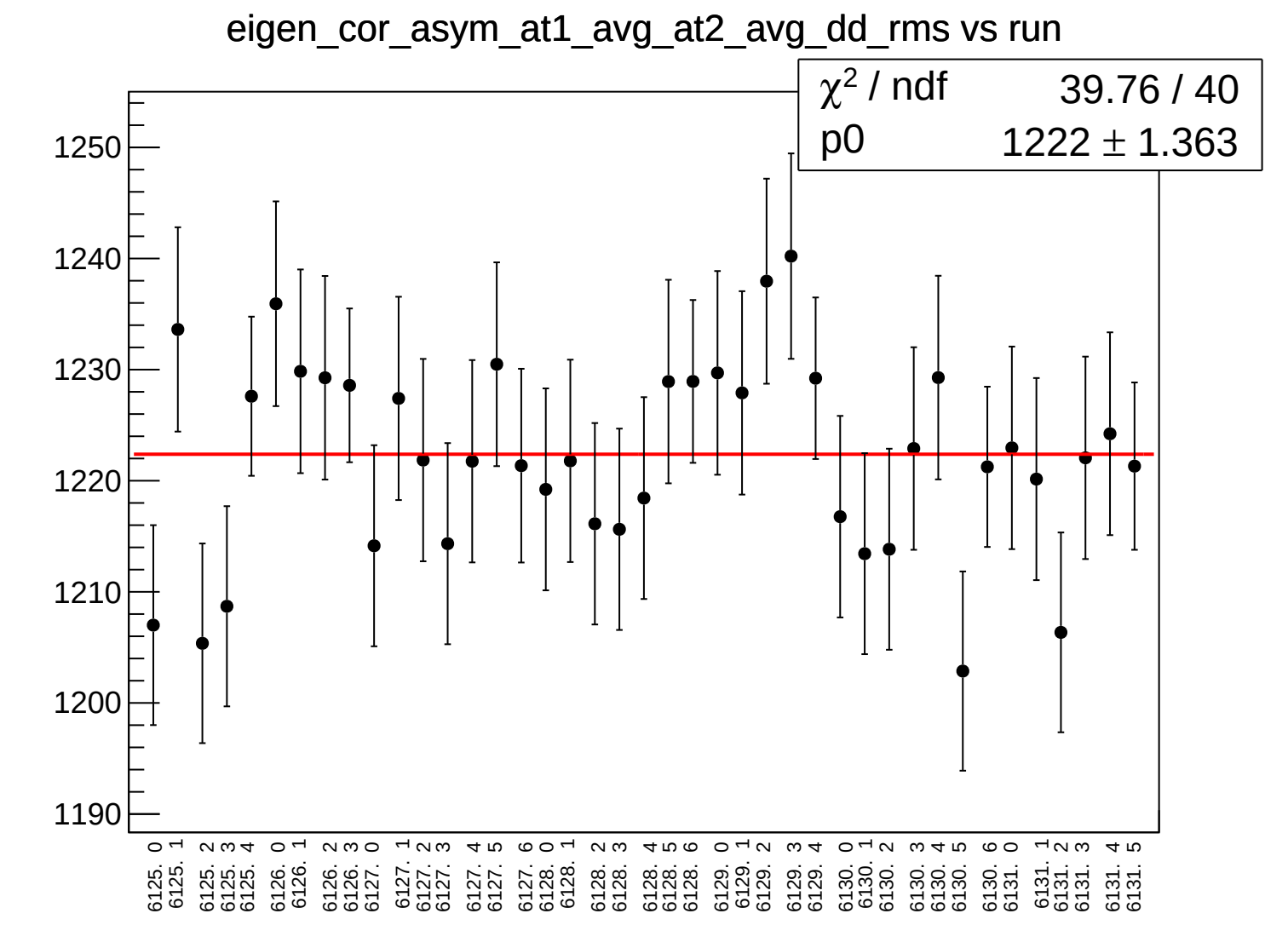

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
χ² / ndf 30.34 / 40
p0 −1759 ± 4692
pull
Entries 41
Mean 167.5
Std Dev 0

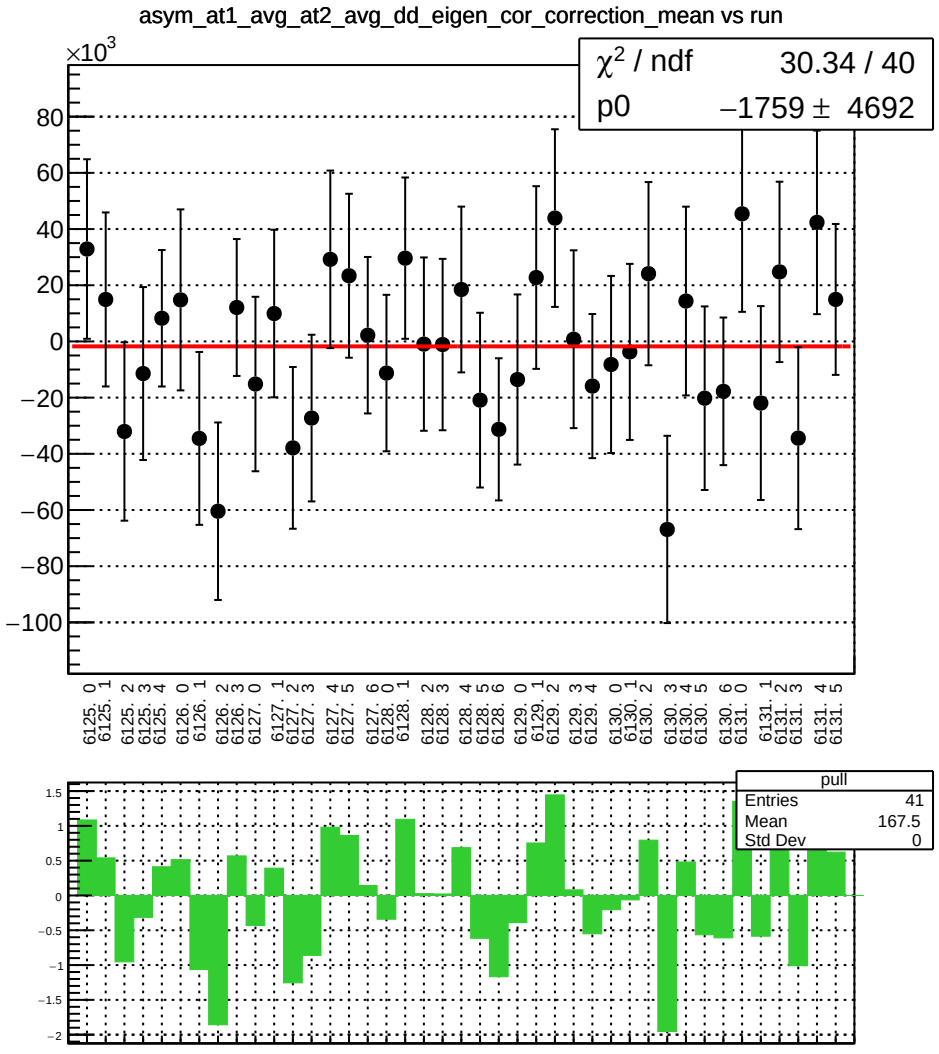

pull1D
Entries 41
Mean 0.005737
Std Dev 0.8602

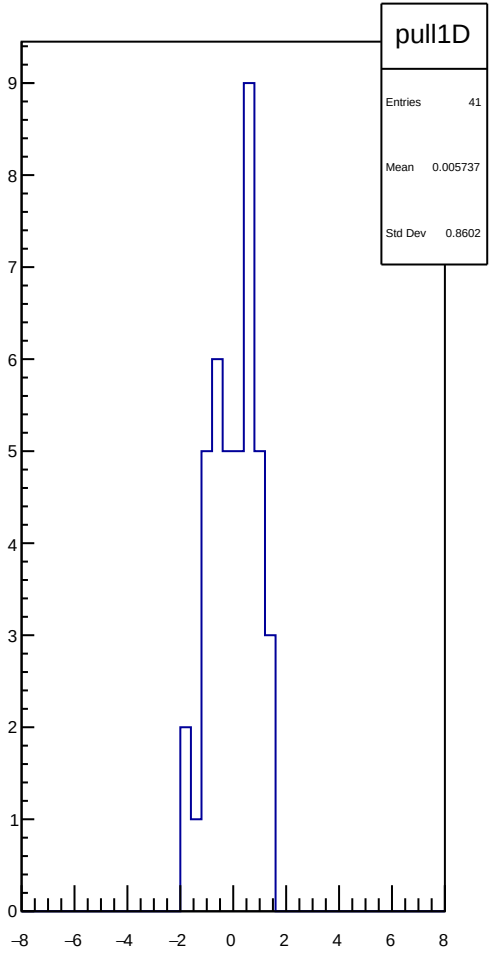

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 1850 / 40
p0 2972 ± 3.318
3400
3300
3200
3100
3000
2900
2800
2700
2600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

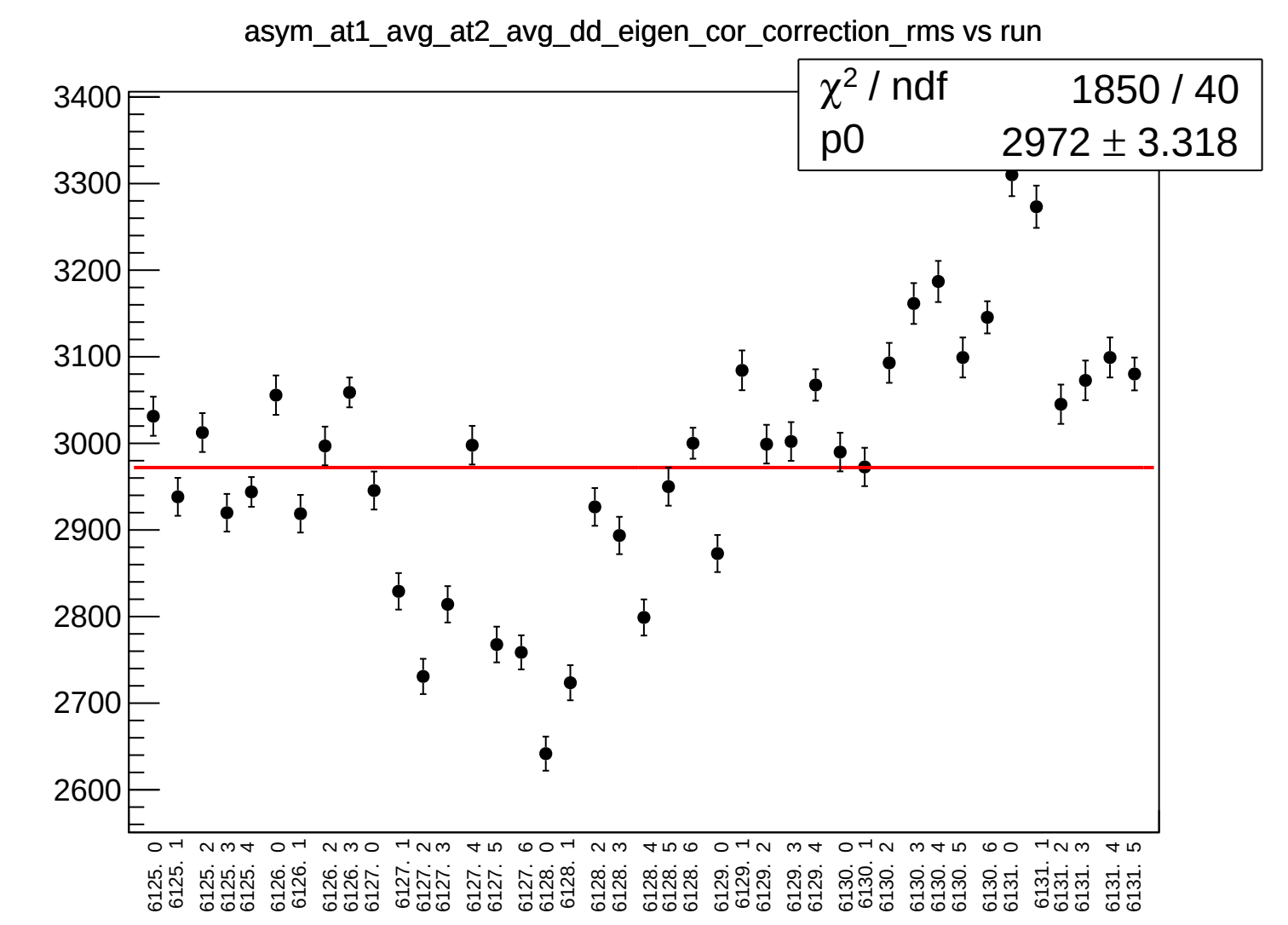

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 33.35 / 40
p0 −993.6 ± 1928
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 155
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

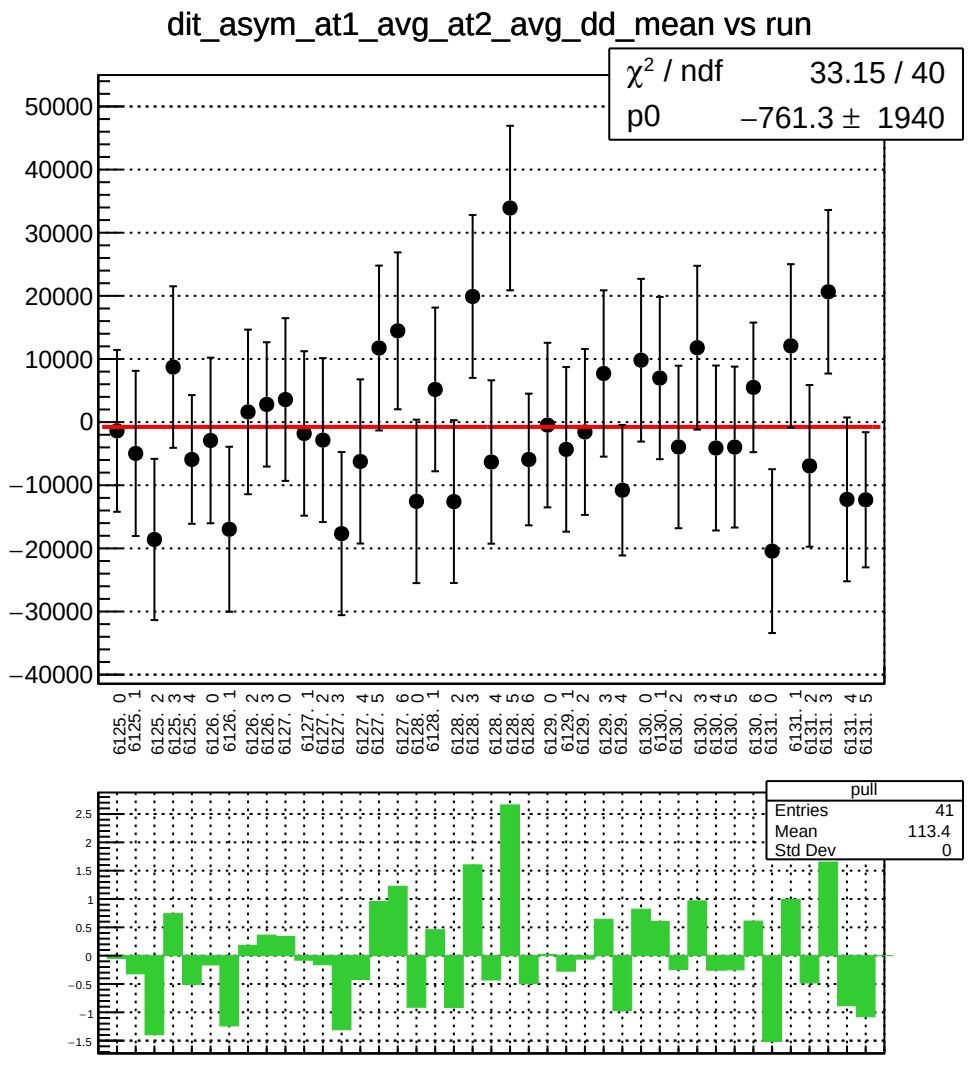

pull1D
Entries 41
Mean 0.008402
Std Dev 0.9019
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

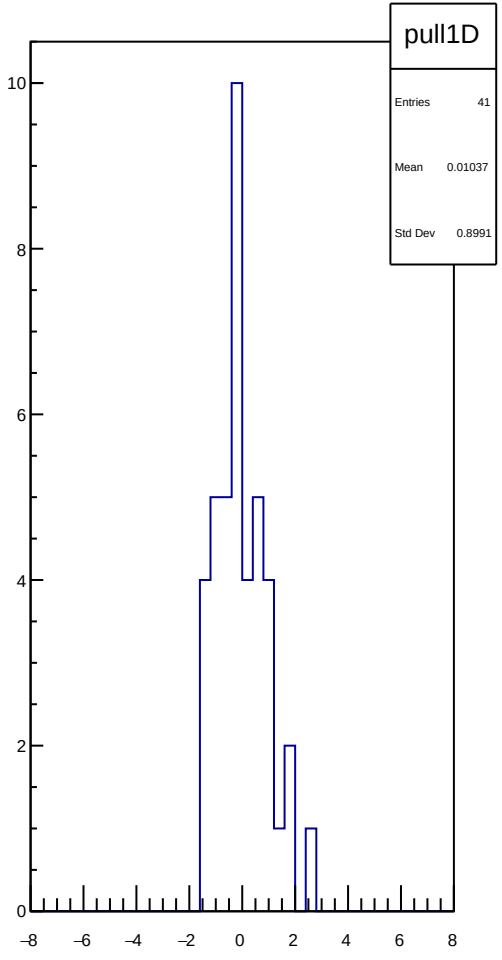

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 39.76 / 40
p0 1222 ± 1.363
1250
1240
1230
1220
1210
1200
1190
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

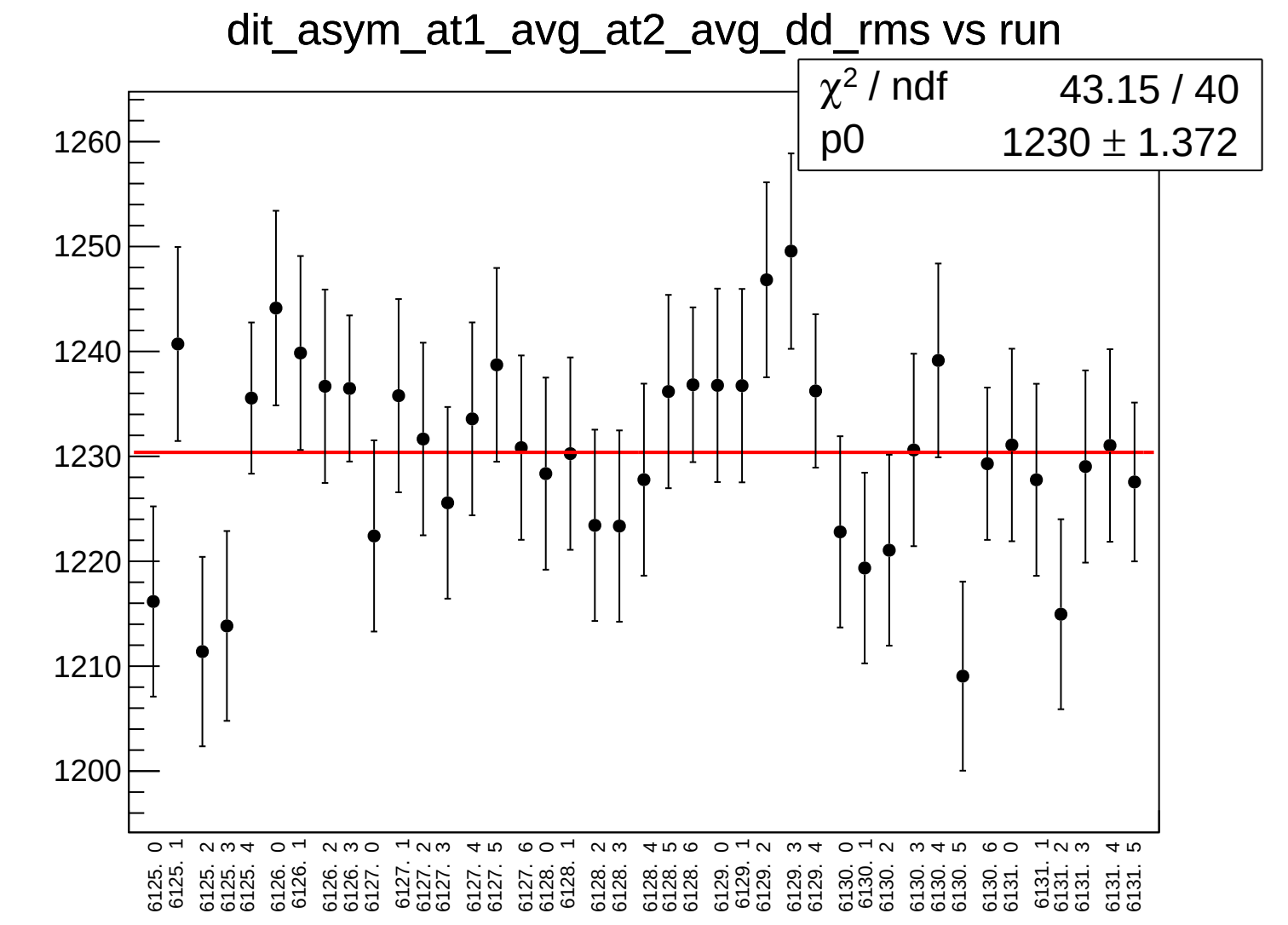

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 30.34 / 40
p0 −1759 ± 4692
80
60
40
20
0
−20
−40
−60
−80
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 167.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

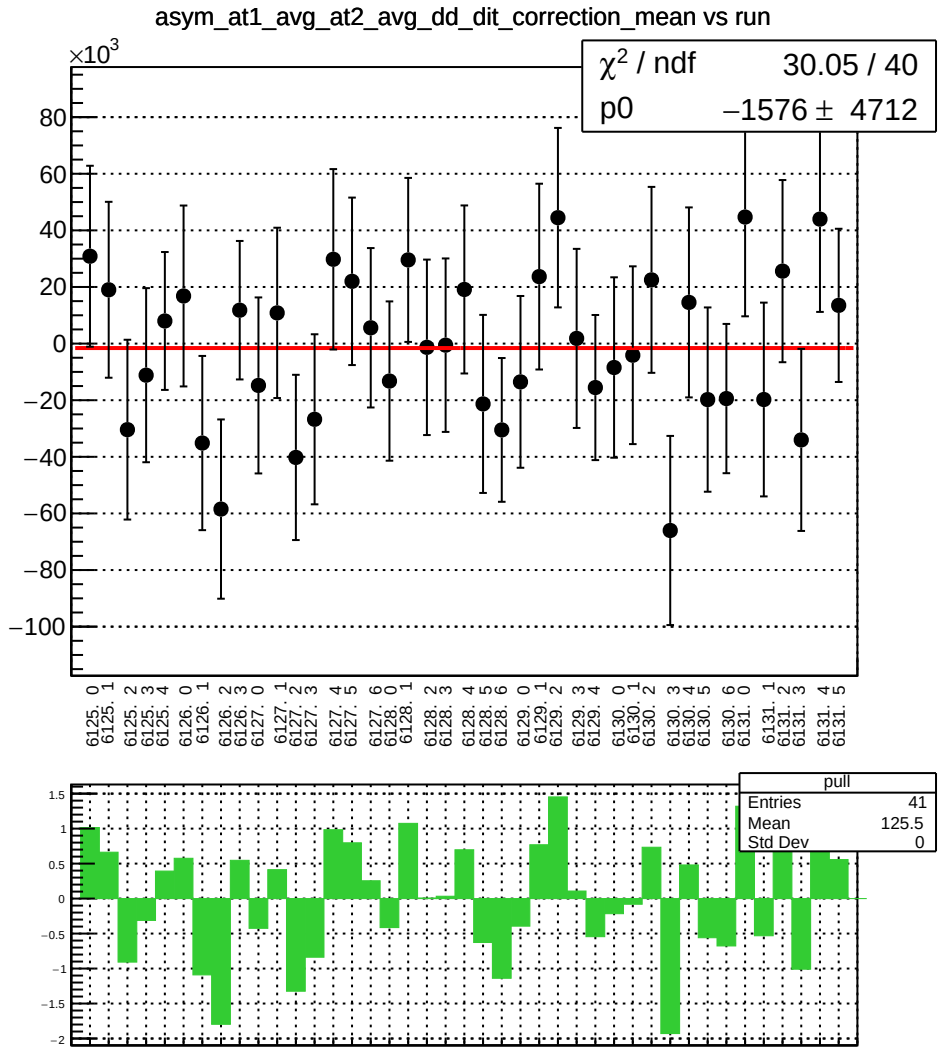

pull1D
Entries 41
Mean 0.005737
Std Dev 0.8602
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

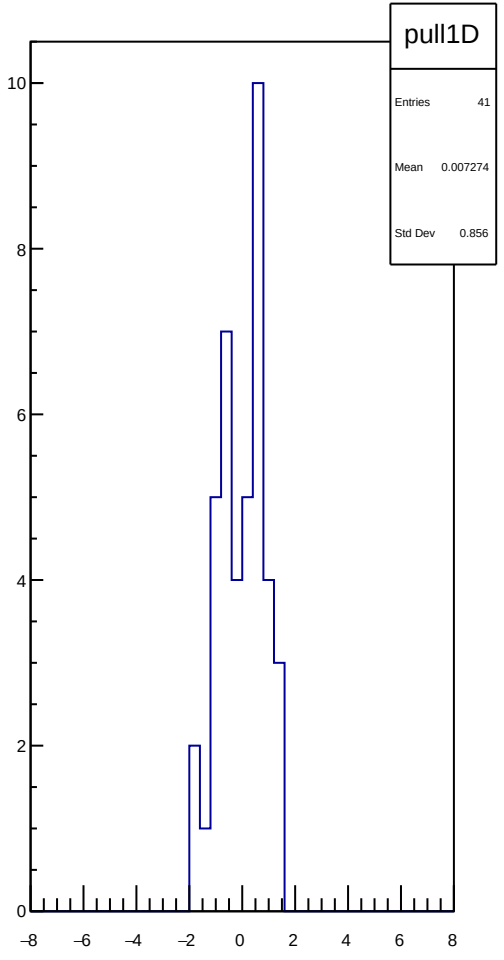

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1850 / 40
p0 2972 ± 3.318
3400
3300
3200
3100
3000
2900
2800
2700
2600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

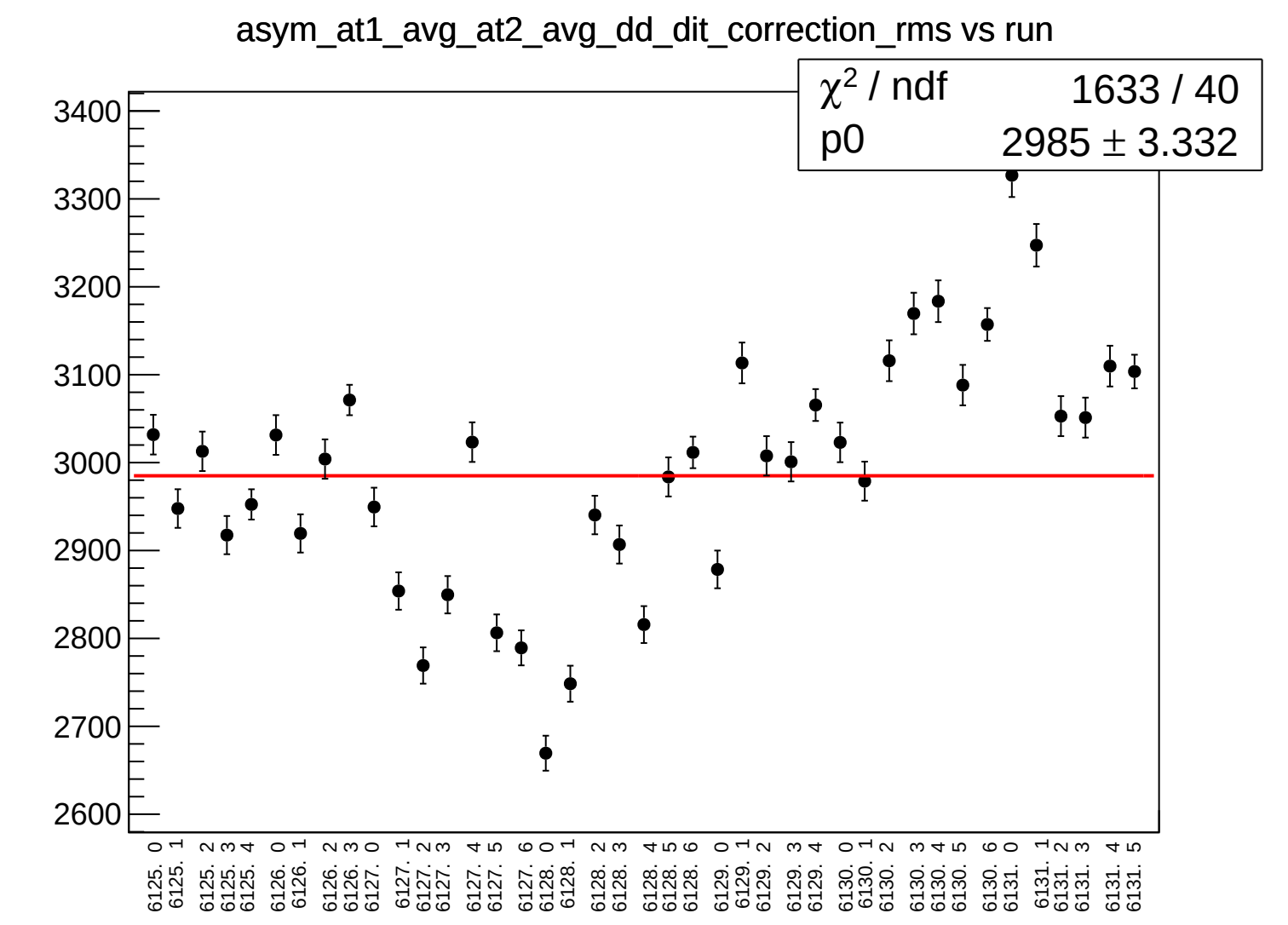

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 33.15 / 40
p0 −761.3 ± 1940
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 113.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

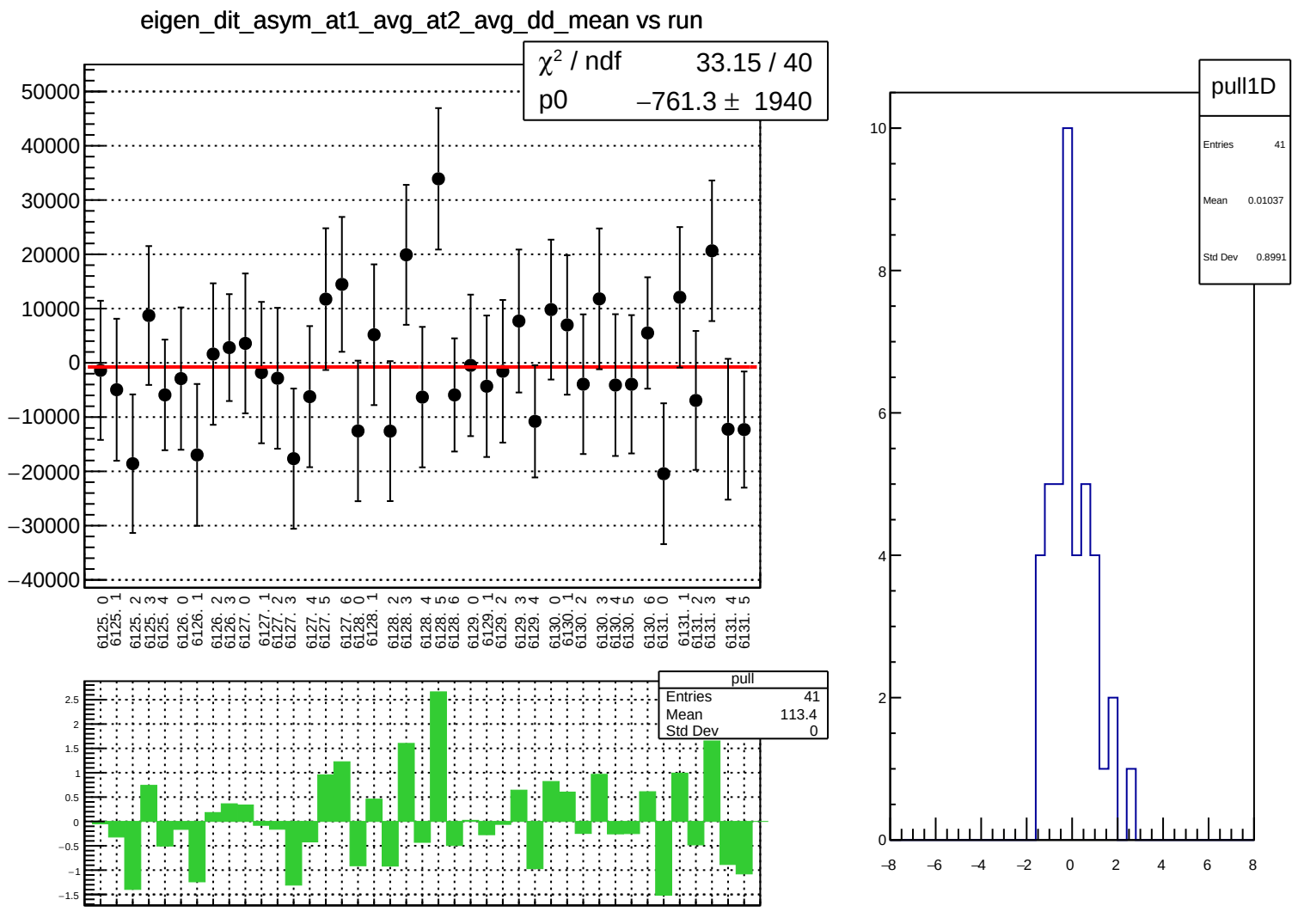

pull1D
Entries 41
Mean 0.01037
Std Dev 0.8991
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

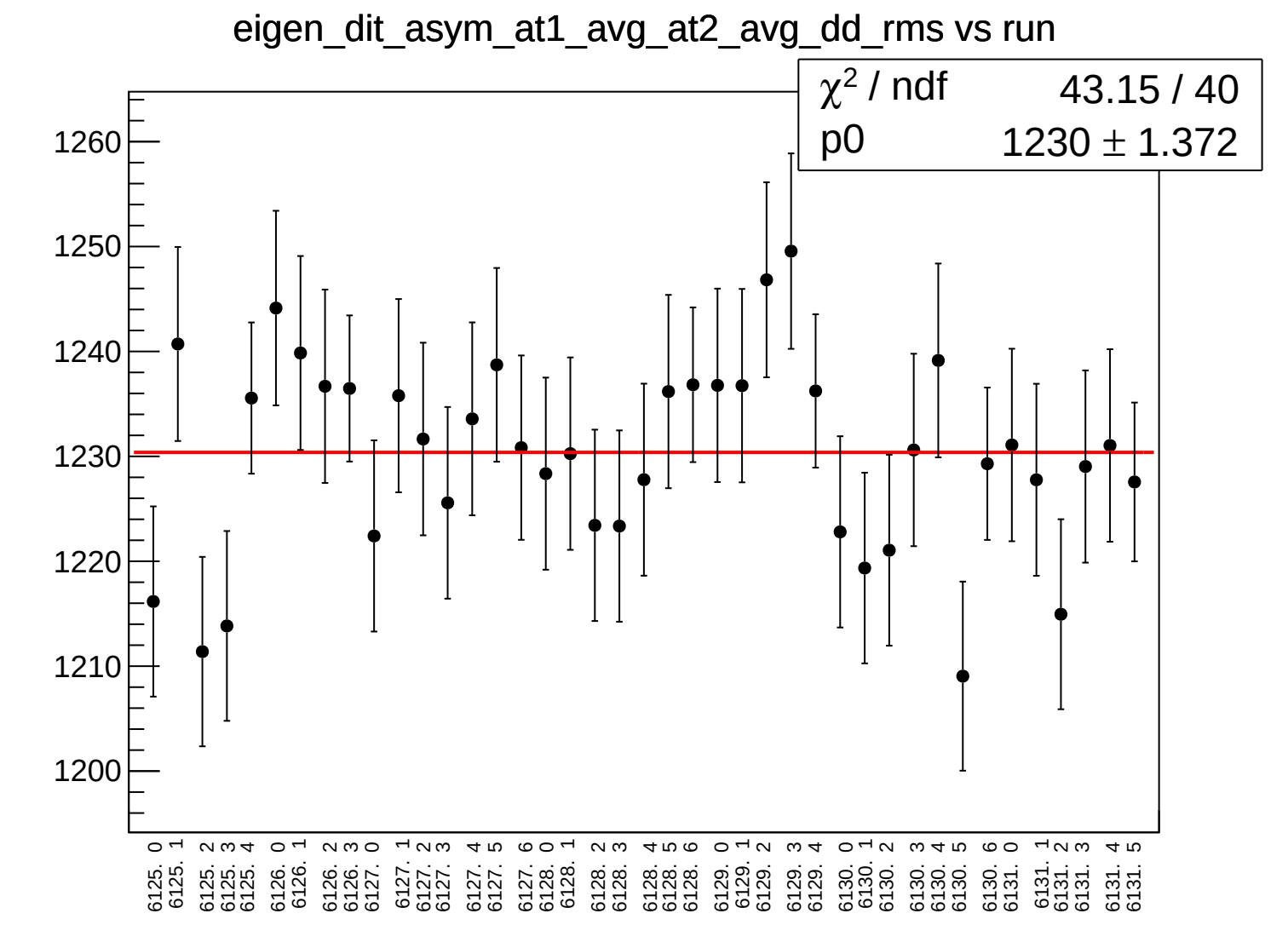

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 43.15 / 40
p0 1230 ± 1.372
1260
1250
1240
1230
1220
1210
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 30.05 / 40
p0 −1576 ± 4712
pull
Entries 41
Mean 125.5
Std Dev 0


pull1D
Entries 41
Mean 0.007274
Std Dev 0.856


asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 1633 / 40
p0 2985 ± 3.332
3400
3300
3200
3100
3000
2900
2800
2700
2600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 33.15 / 40
p0 −761.3 ± 1940
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 113.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.01037
Std Dev 0.8991
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 43.15 / 40
p0 1230 ± 1.372
1260
1250
1240
1230
1220
1210
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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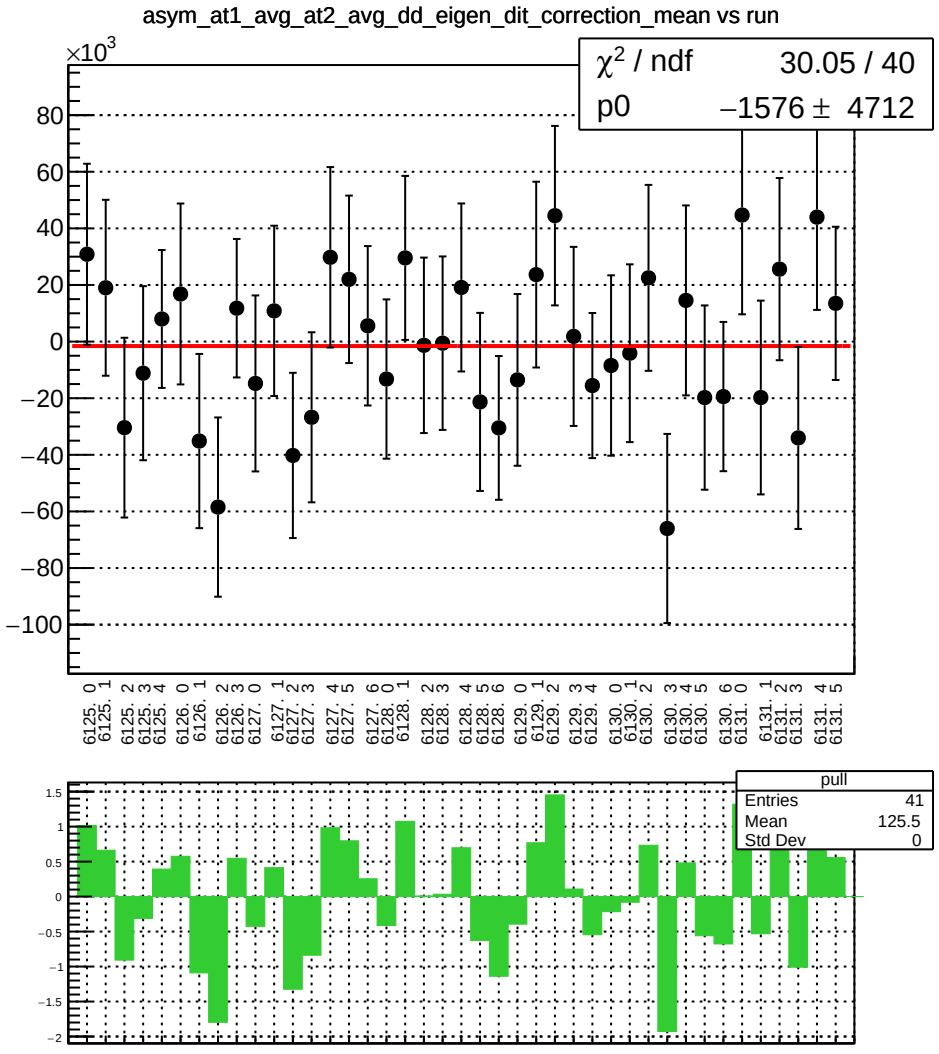
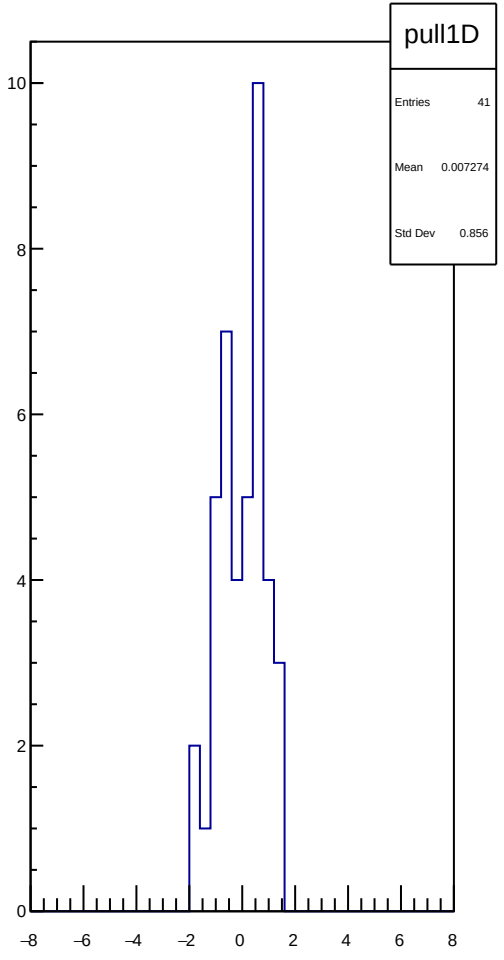
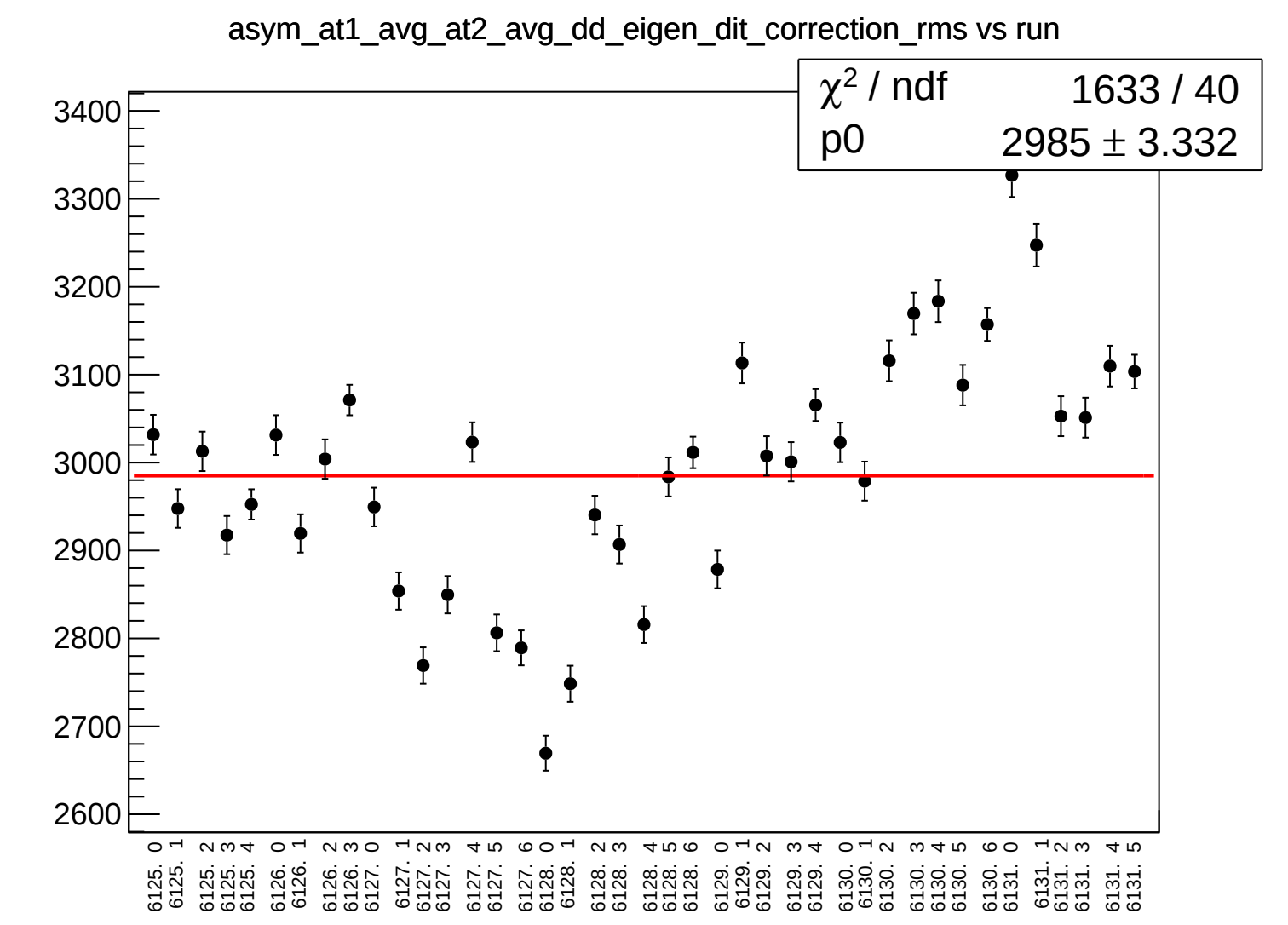
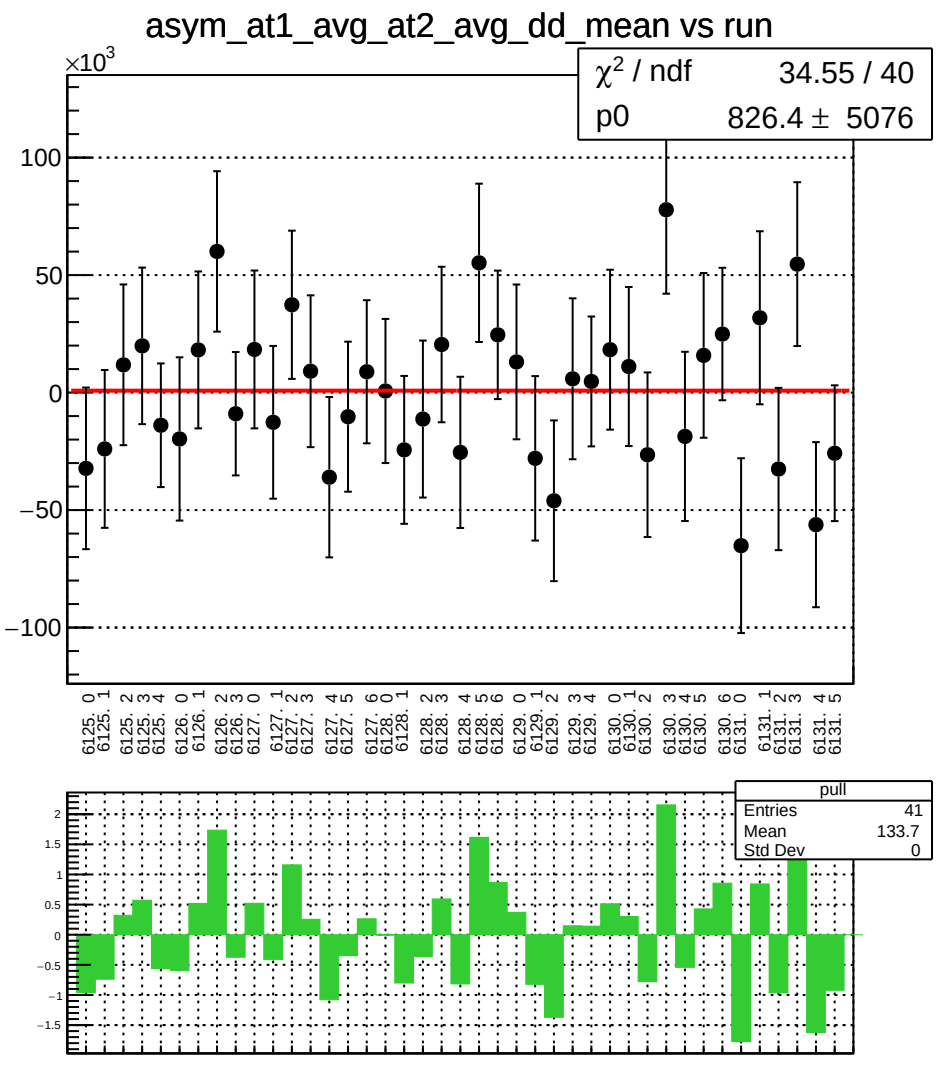
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 30.05 / 40
p0 −1576 ± 4712
pull
Entries 41
Mean 125.5
Std Dev 0


pull1D
Entries 41
Mean 0.007274
Std Dev 0.856


asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1633 / 40
p0 2985 ± 3.332
3400
3300
3200
3100
3000
2900
2800
2700
2600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 34.55 / 40
p0 826.4 ± 5076
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6127. 4
6127. 5
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6128. 0
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6130. 6
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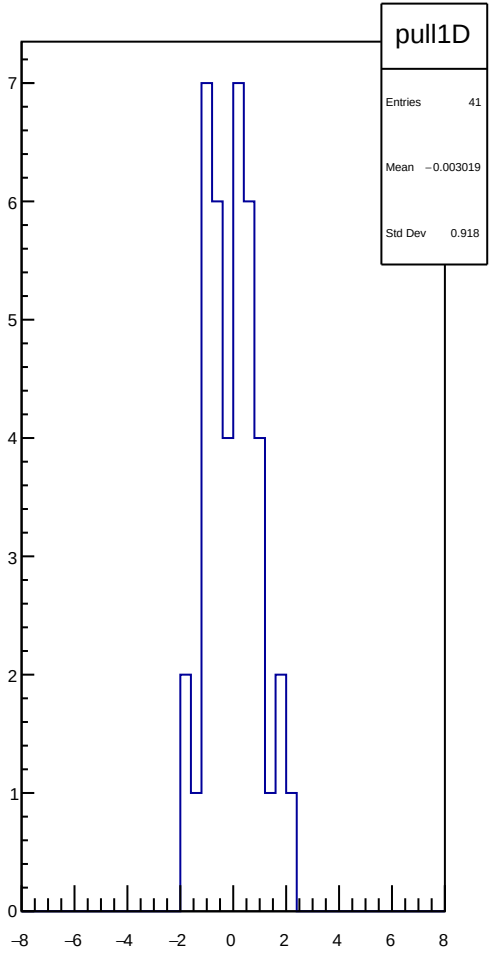
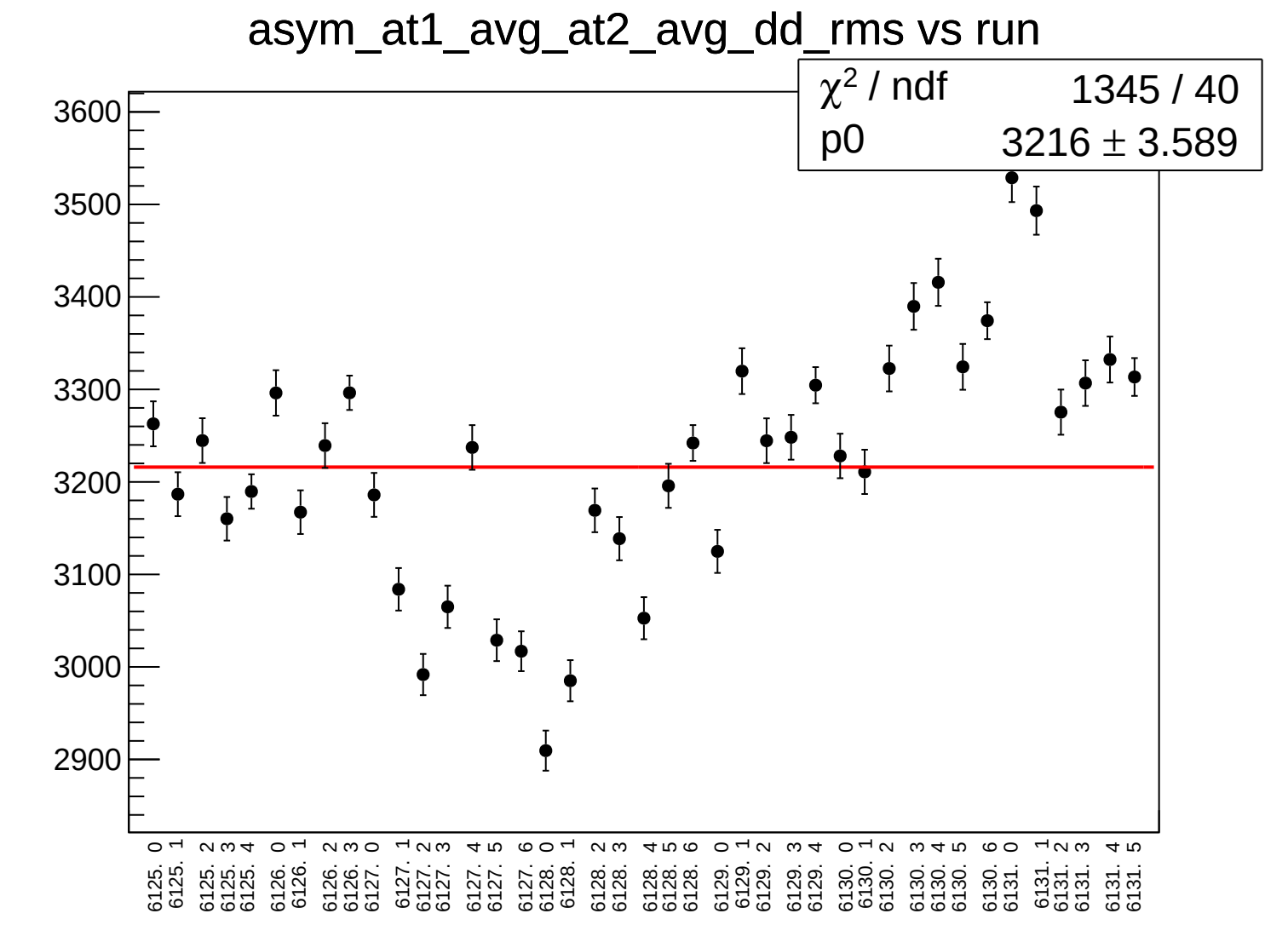
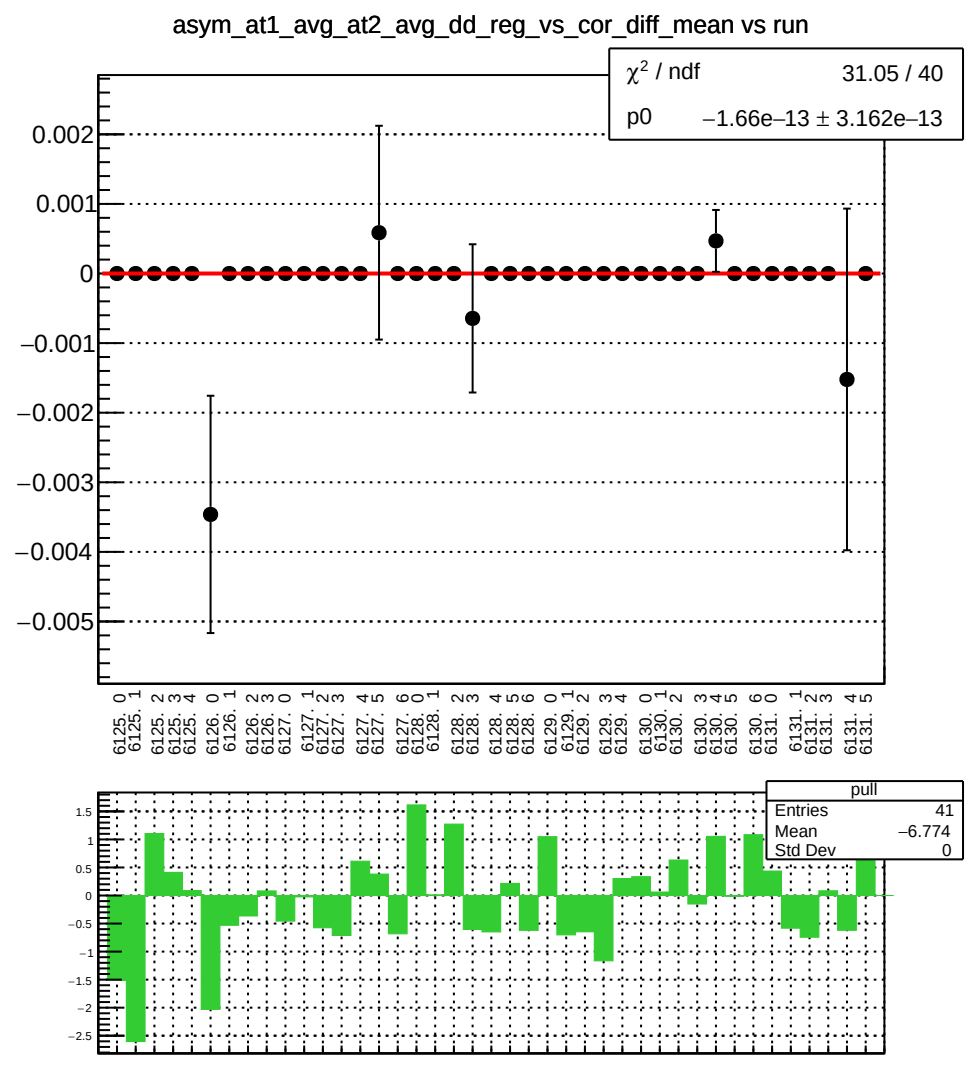
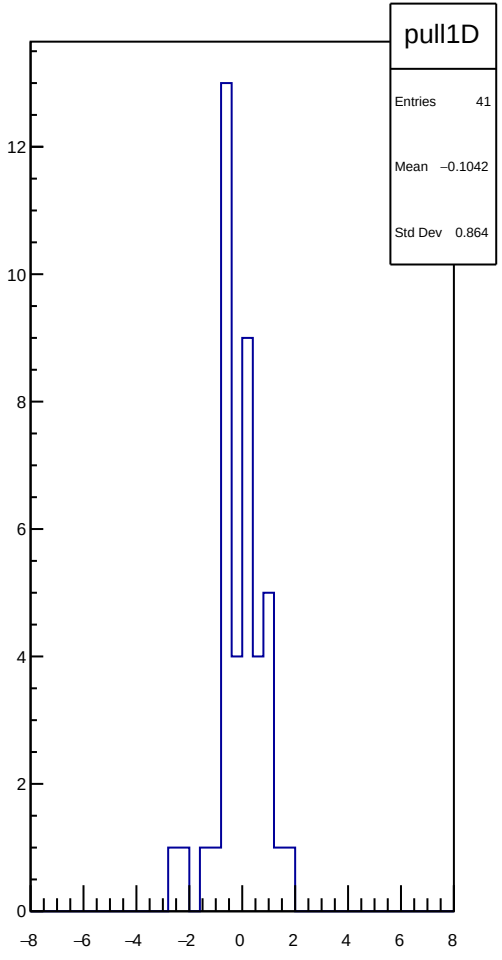
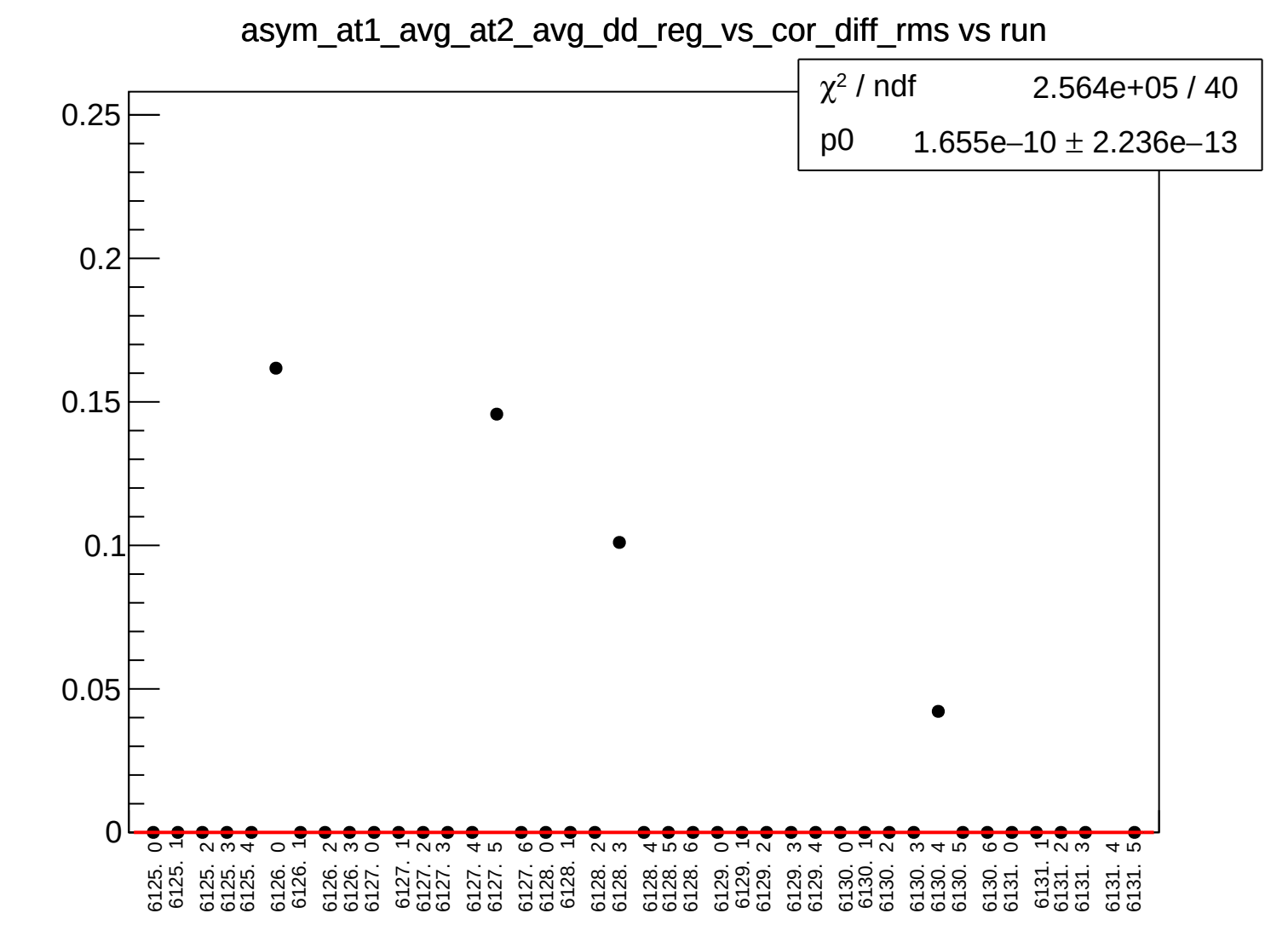
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 133.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

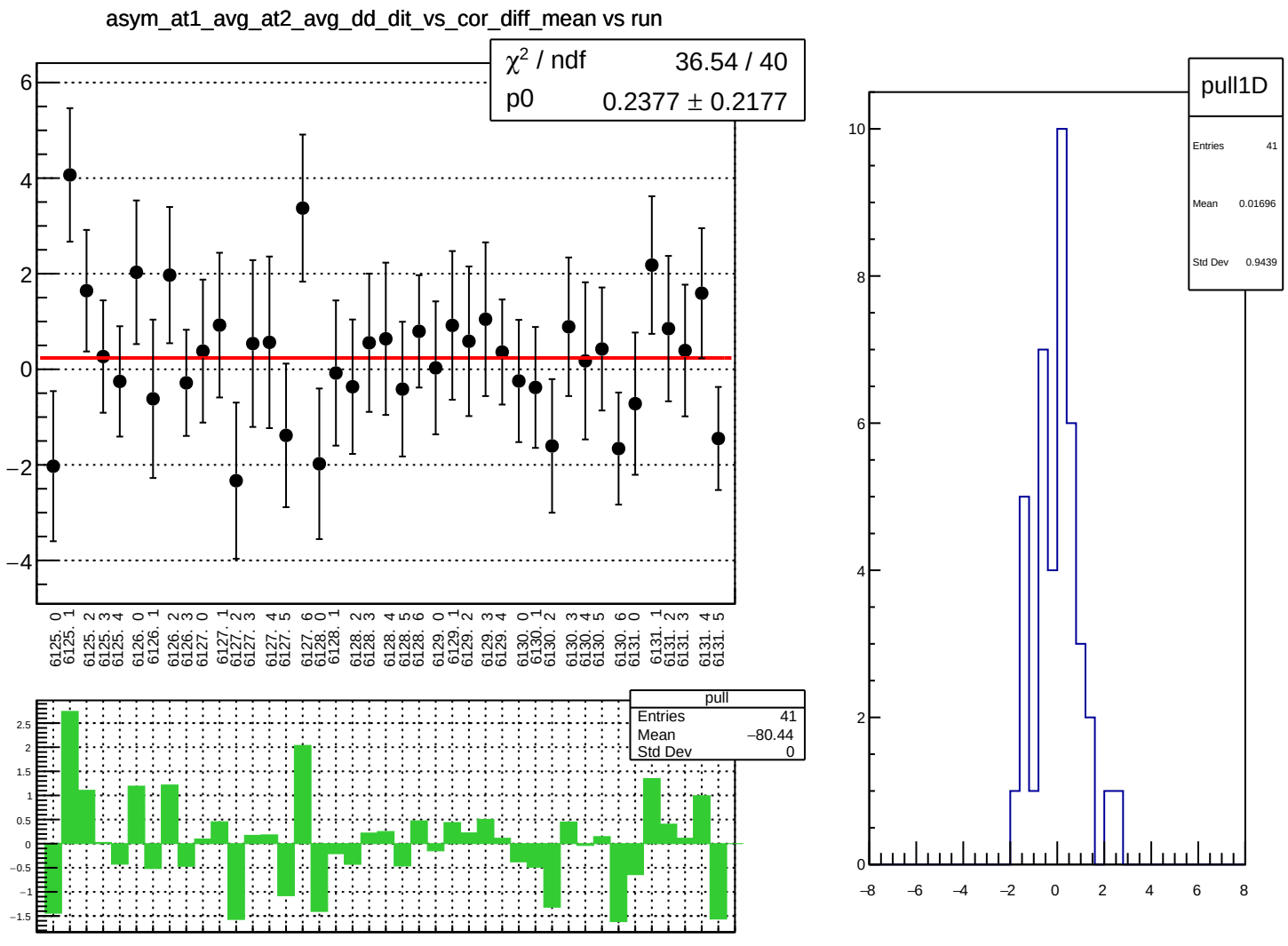

pull1D
Entries 41
Mean −0.003019
Std Dev 0.918
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

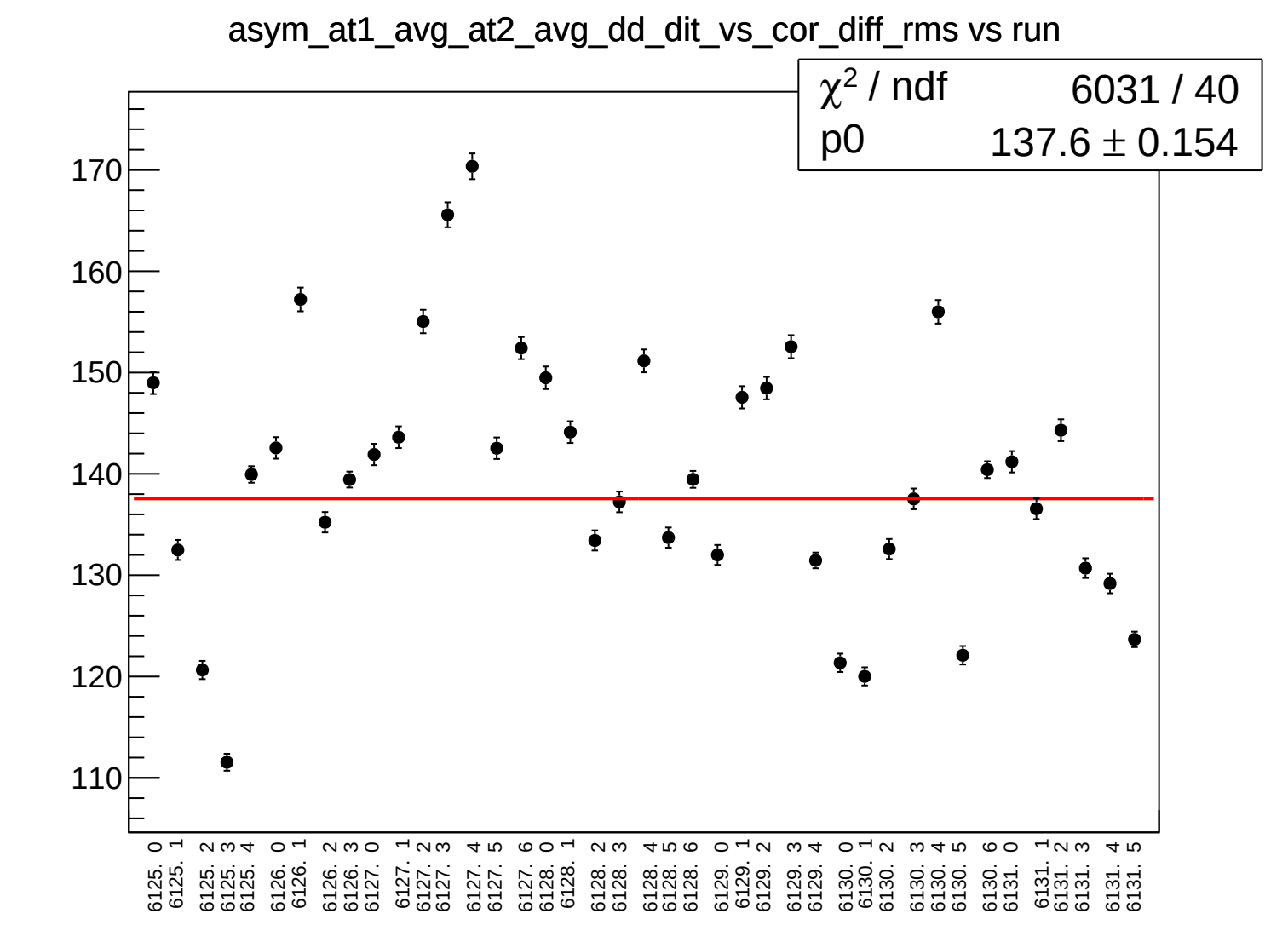

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1345 / 40
p0 3216 ± 3.589
3600
3500
3400
3300
3200
3100
3000
2900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

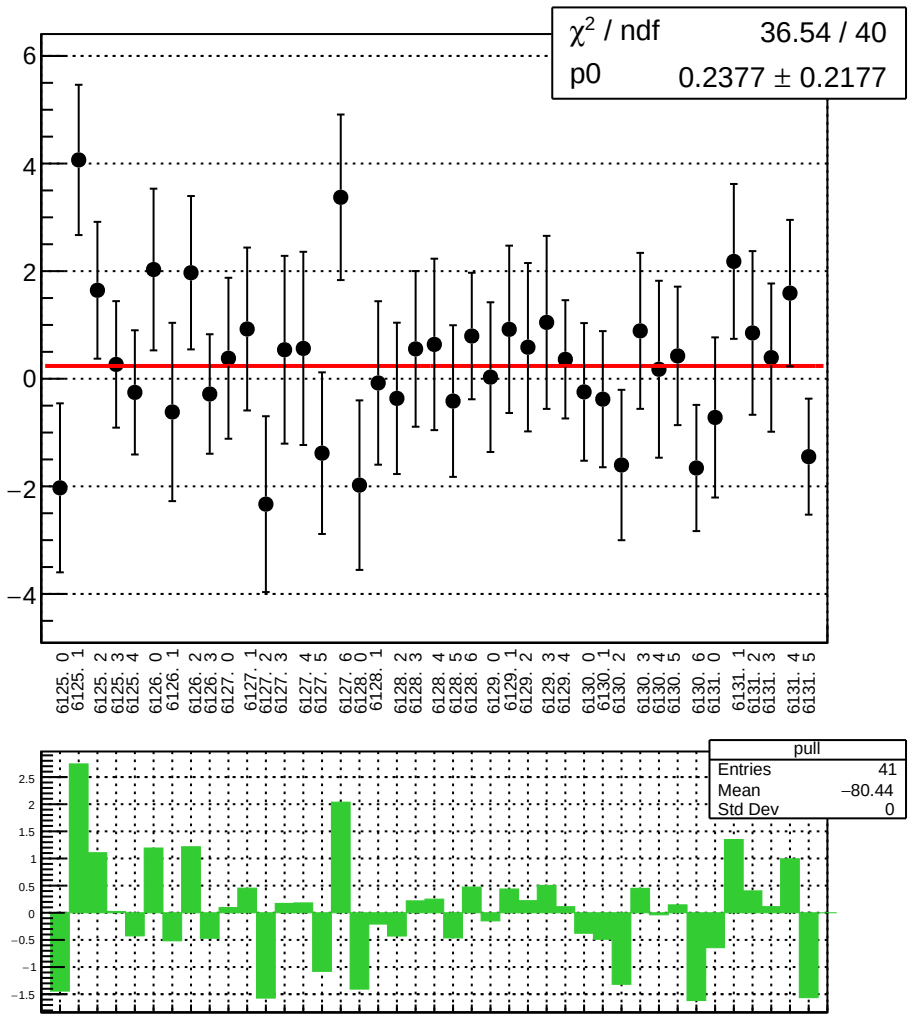

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 31.05 / 40
p0 −1.66e−13 ± 3.162e−13
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
−0.005
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −6.774
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

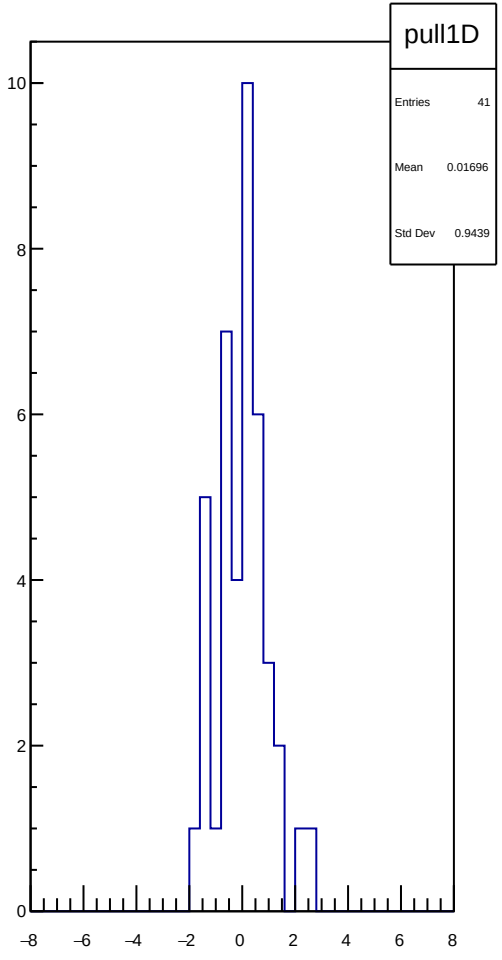

pull1D
Entries 41
Mean −0.1042
Std Dev 0.864
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

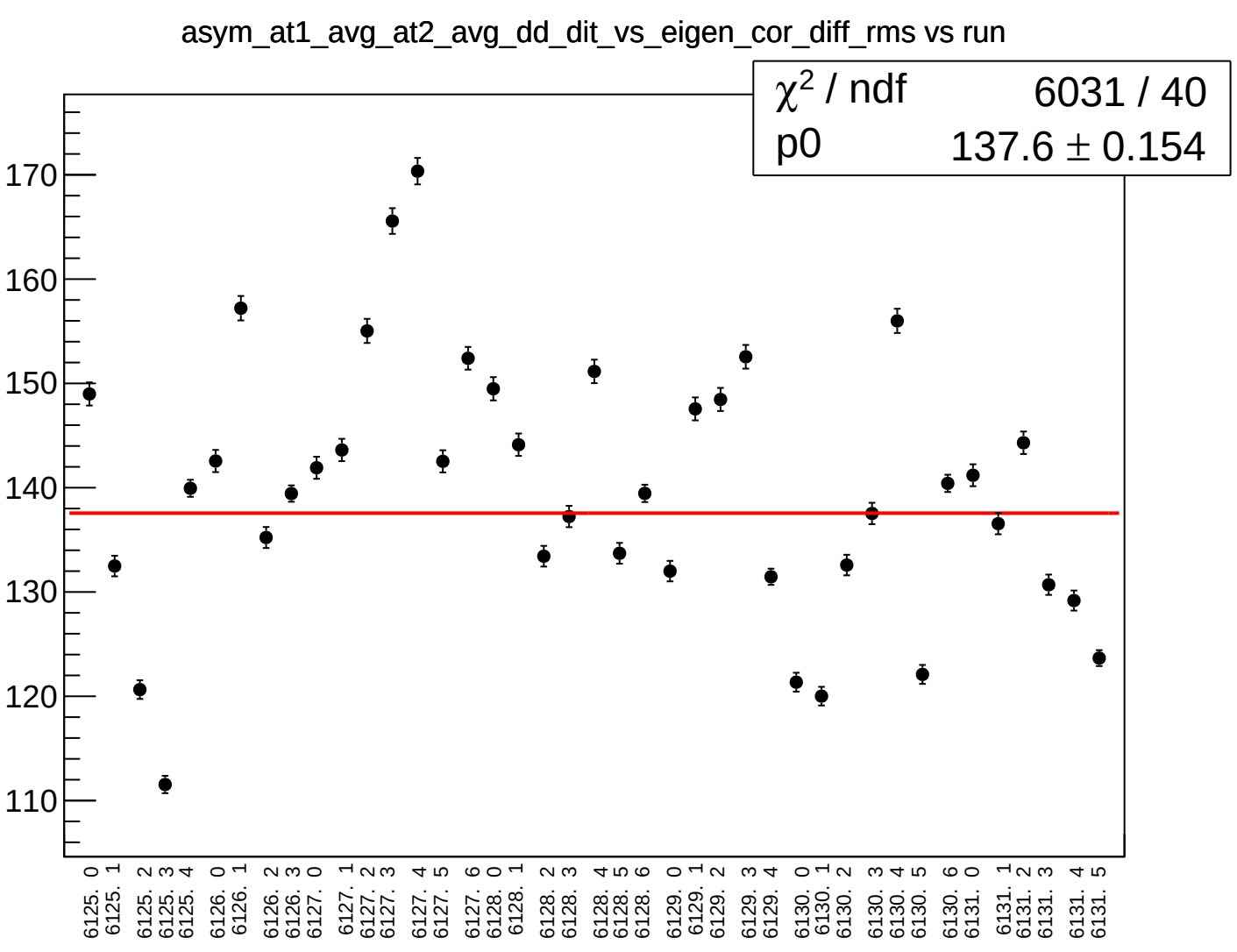

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.564e+05 / 40
p0 1.655e−10 ± 2.236e−13
0.25
0.2
0.15
0.1
0.05
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

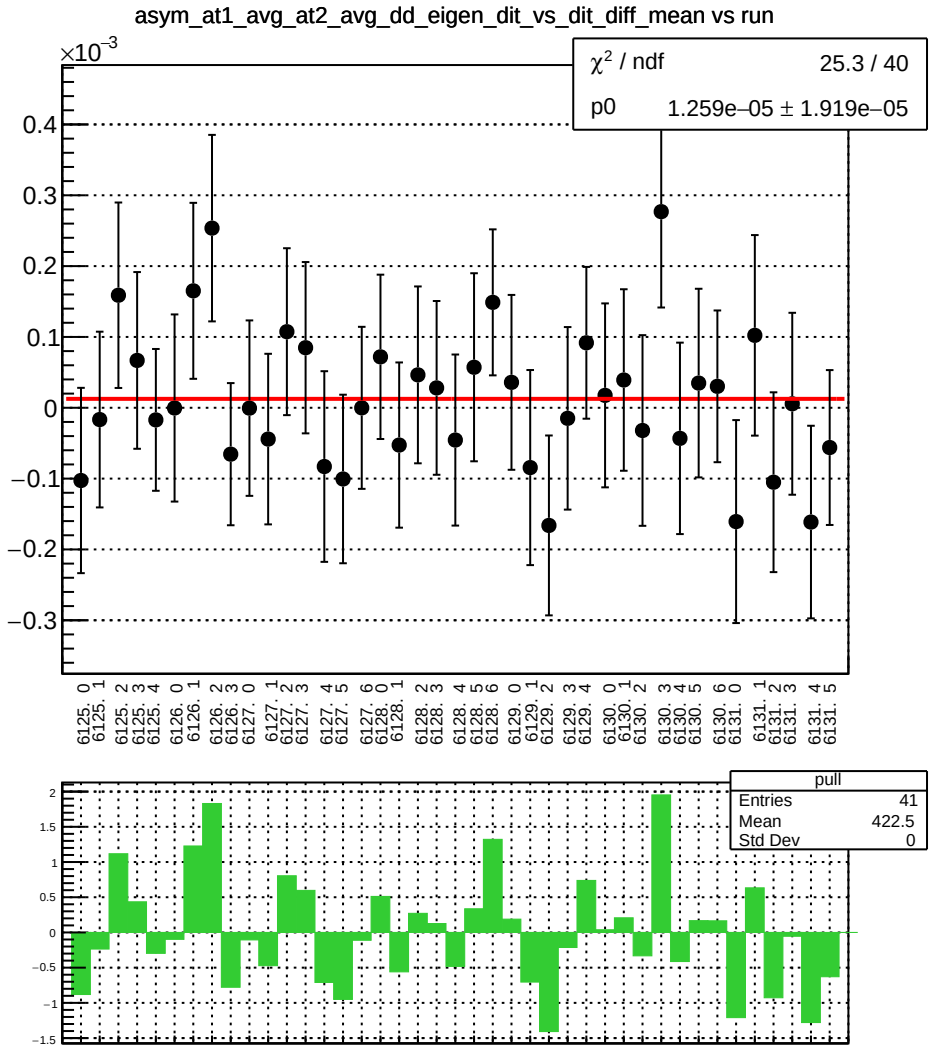

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 36.54 / 40
p0 0.2377 ± 0.2177
pull
Entries 41
Mean −80.44
Std Dev 0
pull1D
Entries 41
Mean 0.01696
Std Dev 0.9439

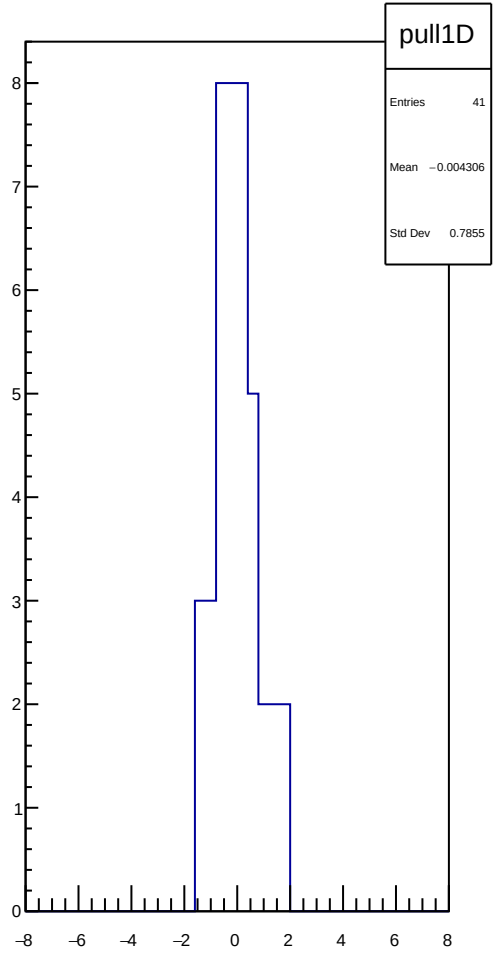

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6031 / 40
p0 137.6 ± 0.154
170
160
150
140
130
120
110
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

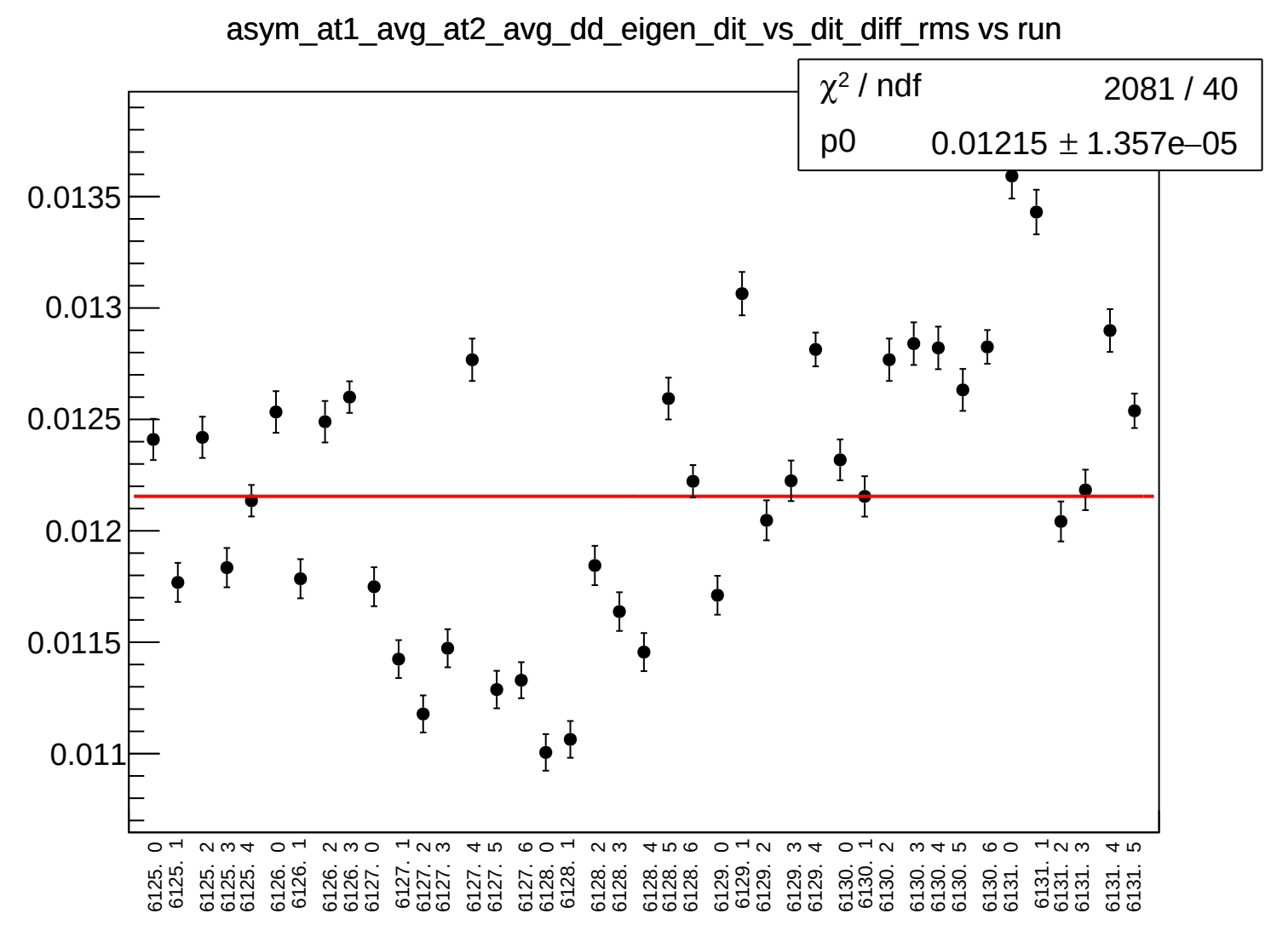

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.54 / 40
p0 0.2377 ± 0.2177
pull
Entries 41
Mean −80.44
Std Dev 0

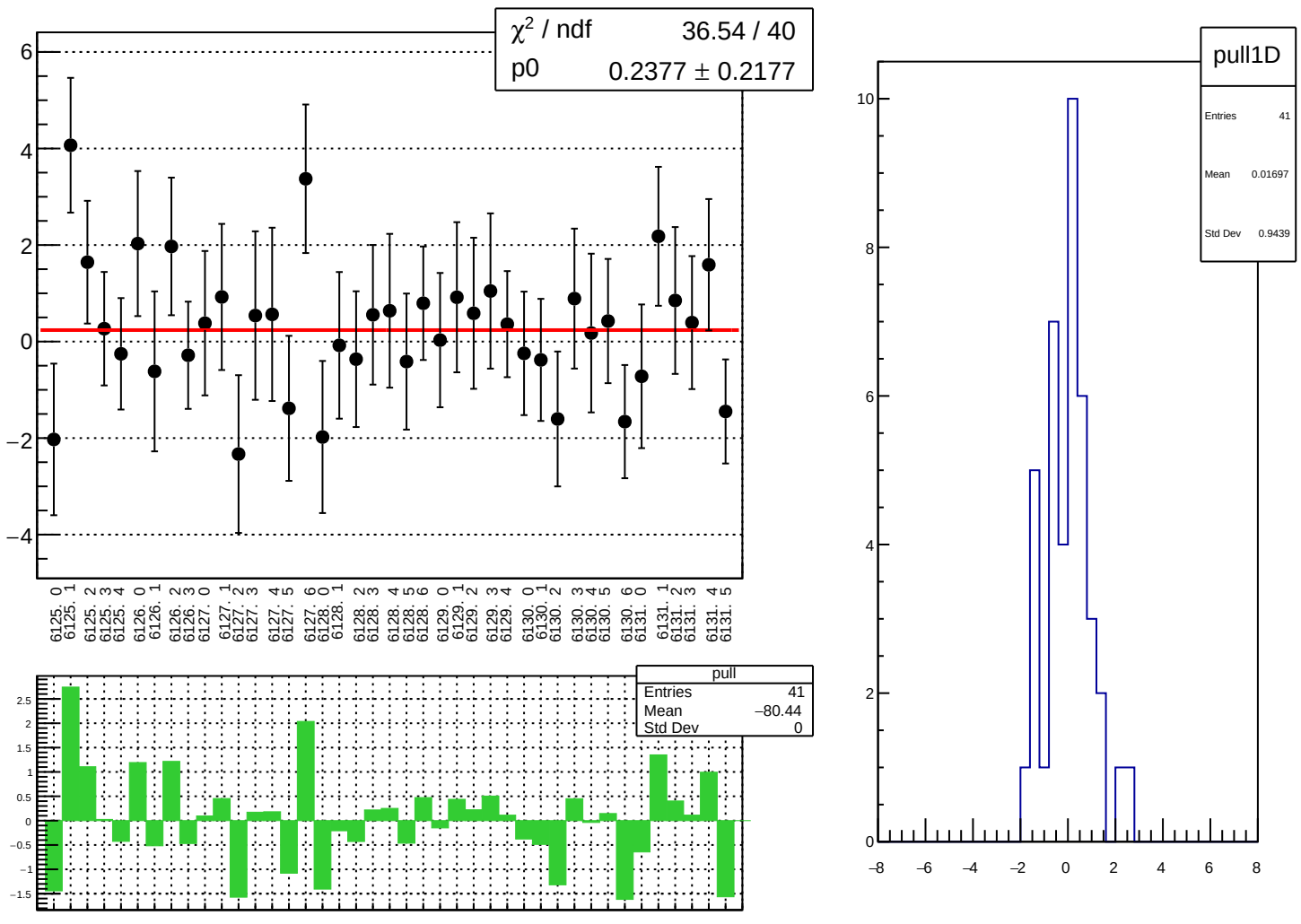

pull1D
Entries 41
Mean 0.01696
Std Dev 0.9439

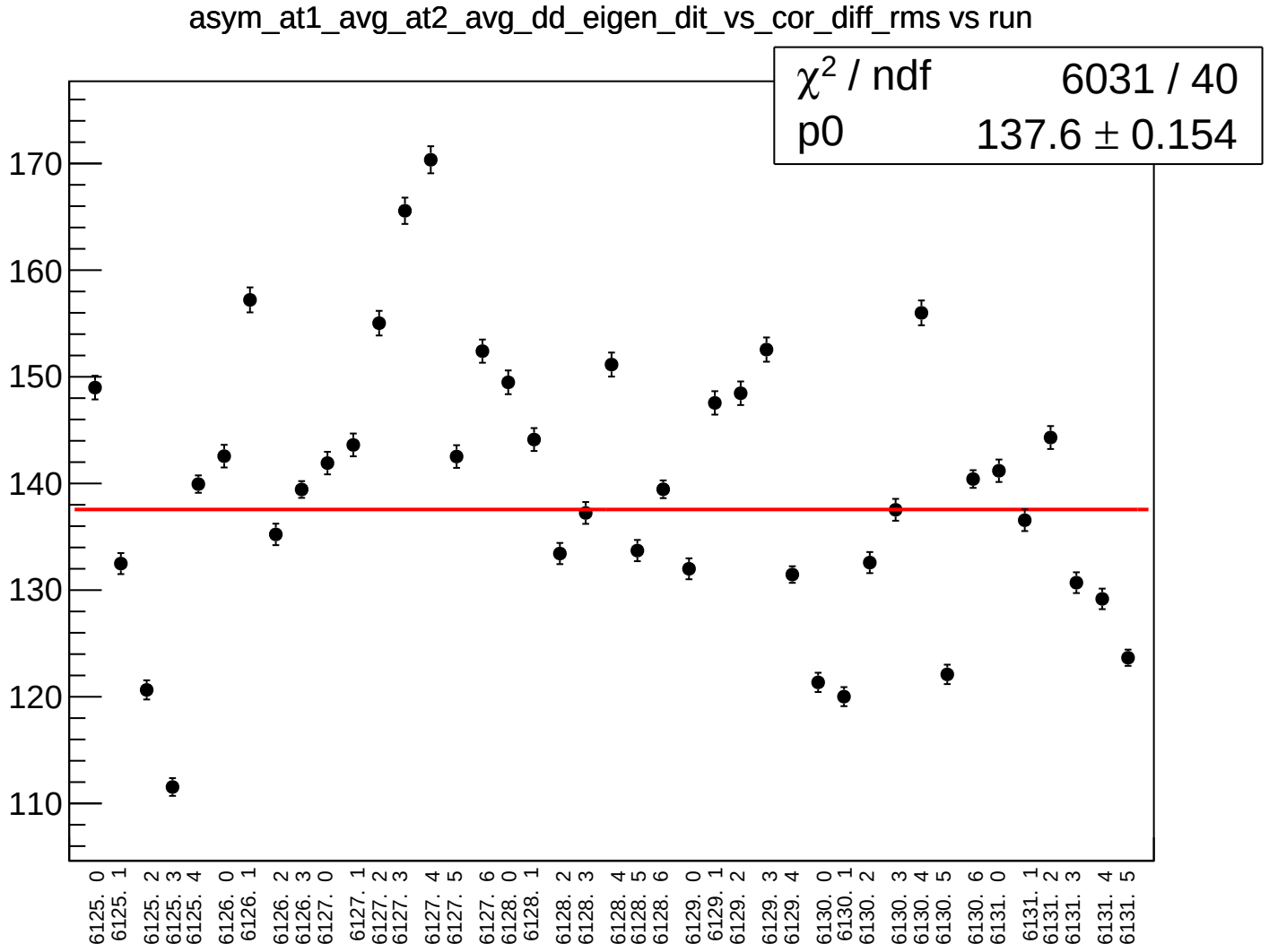

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6031 / 40
p0 137.6 ± 0.154
170
160
150
140
130
120
110
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

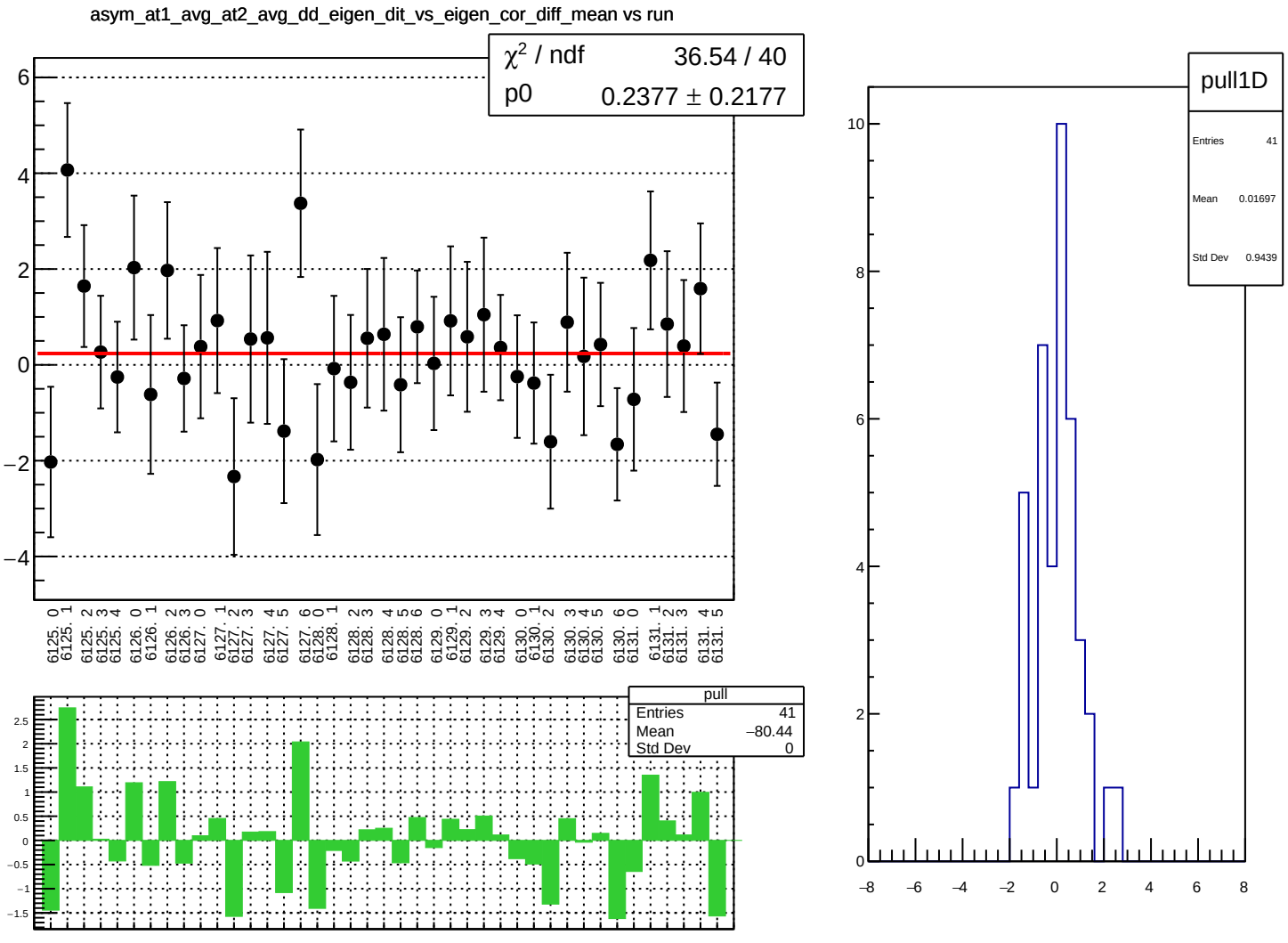

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 25.3 / 40
p0 1.259e−05 ± 1.919e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 422.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

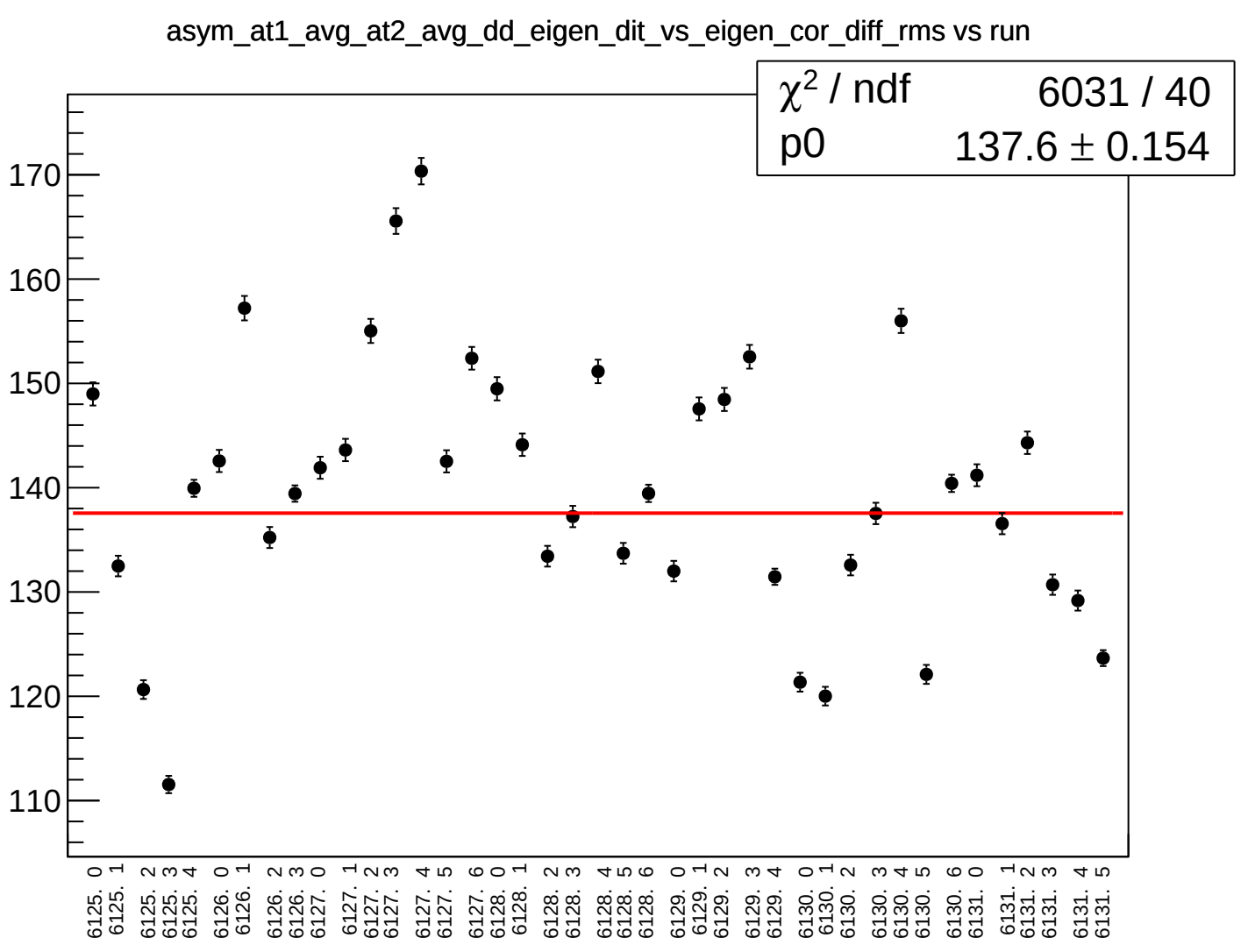

pull1D
Entries 41
Mean −0.004306
Std Dev 0.7855
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

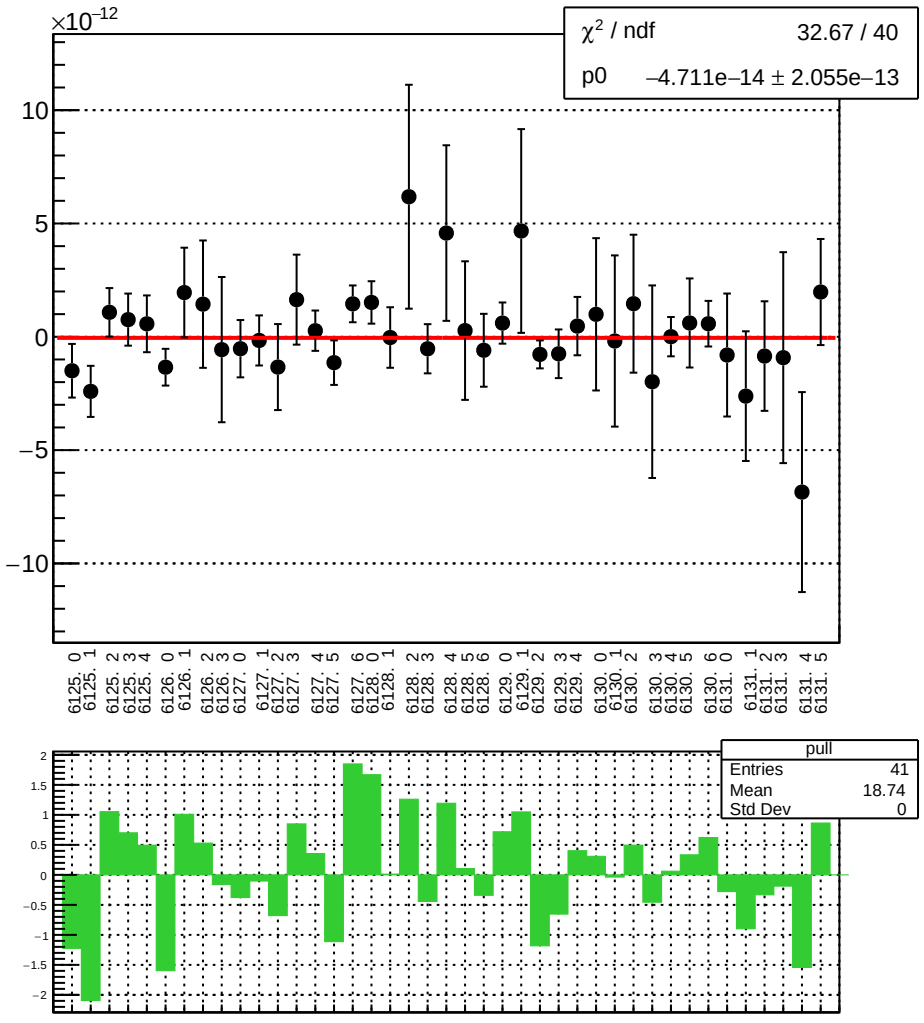

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2081 / 40
p0 0.01215 ± 1.357e−05
0.0135
0.013
0.0125
0.012
0.0115
0.011
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

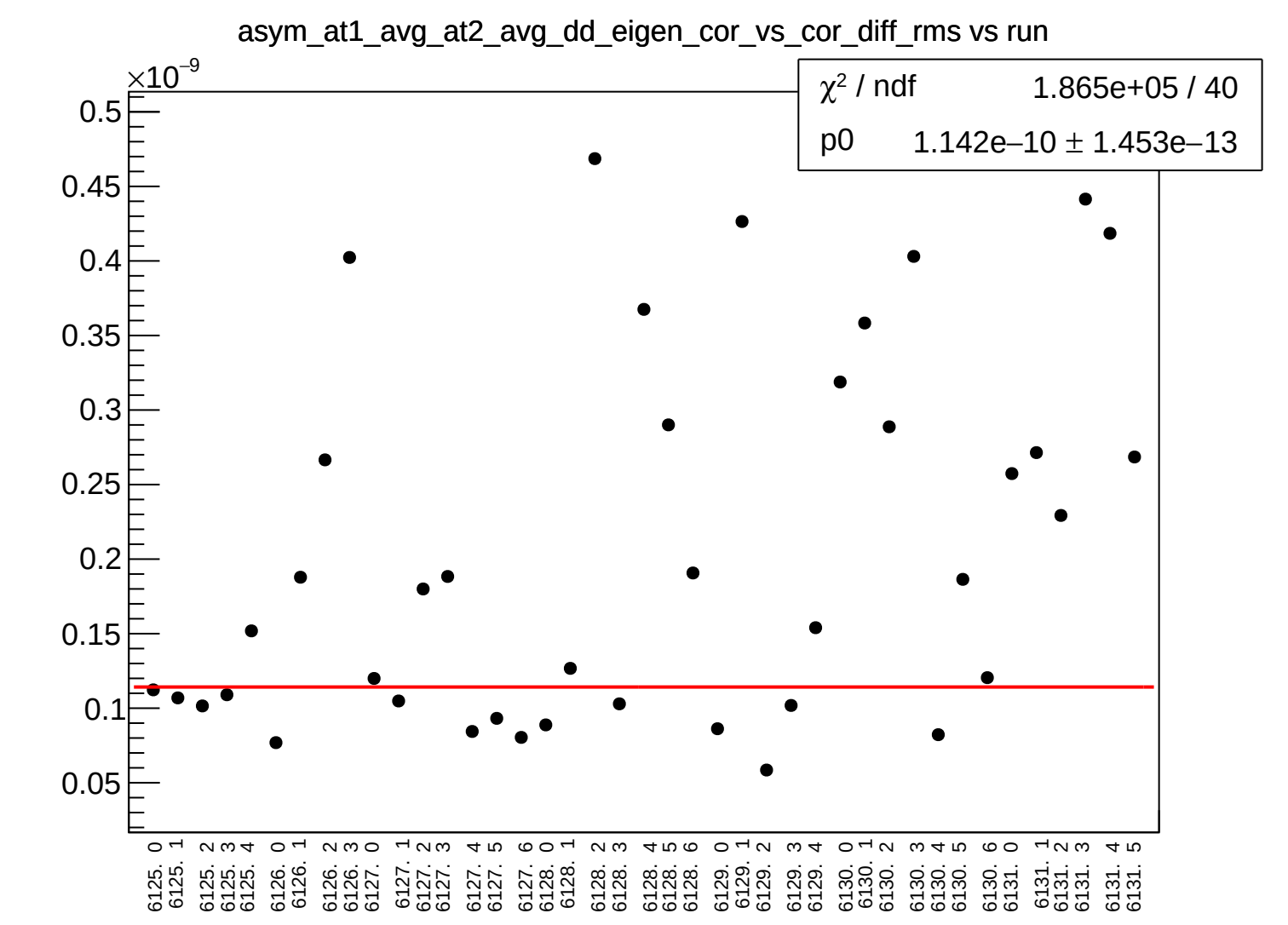

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.54 / 40
p0 0.2377 ± 0.2177
pull
Entries 41
Mean −80.44
Std Dev 0
pull1D
Entries 41
Mean 0.01697
Std Dev 0.9439

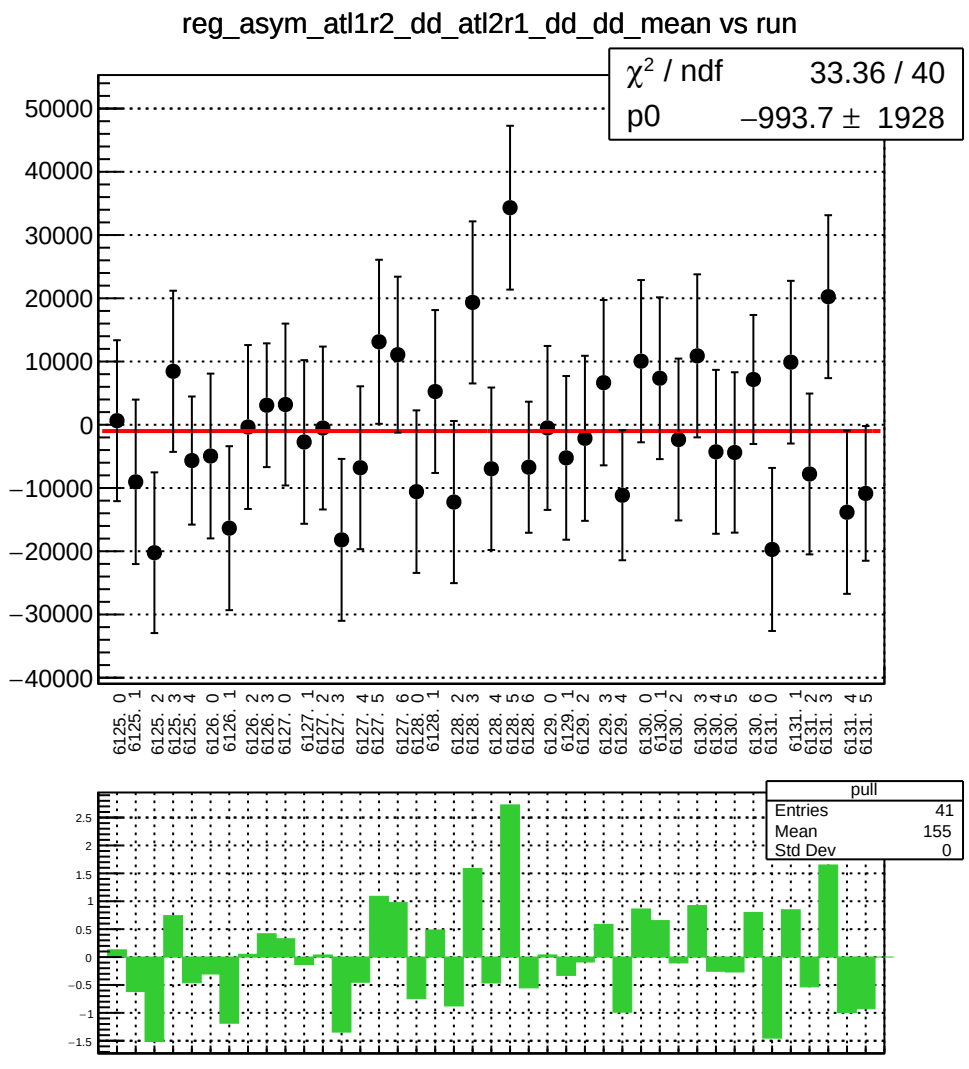

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6031 / 40
p0 137.6 ± 0.154
170
160
150
140
130
120
110
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

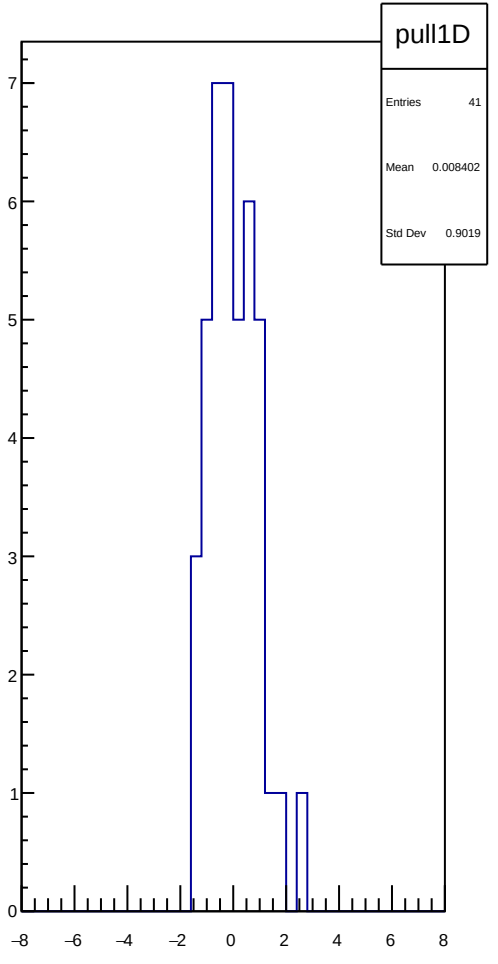

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.54 / 40
p0 0.2377 ± 0.2177
pull
Entries 41
Mean −80.44
Std Dev 0
pull1D
Entries 41
Mean 0.01697
Std Dev 0.9439

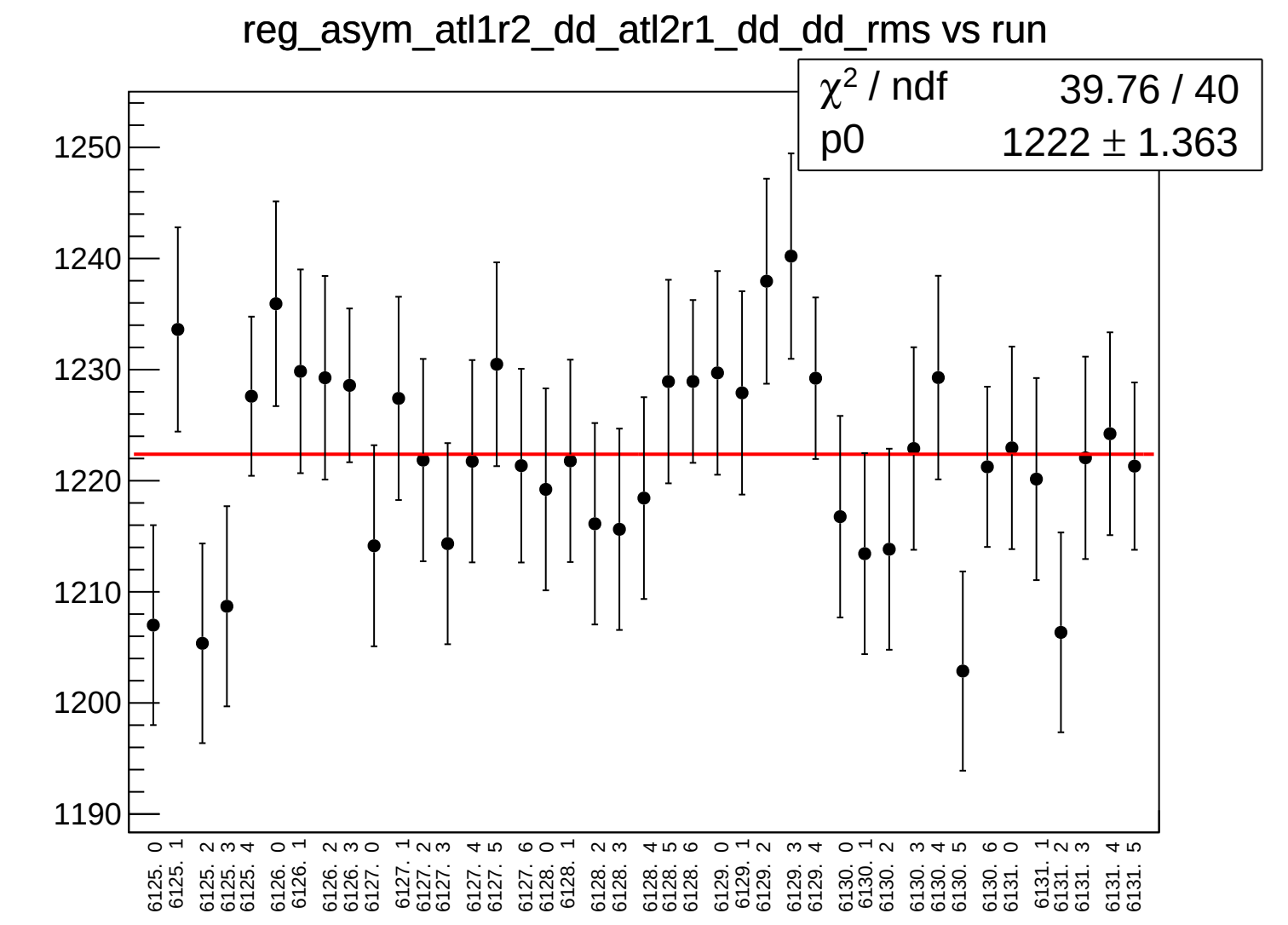

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6031 / 40
p0 137.6 ± 0.154
170
160
150
140
130
120
110
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

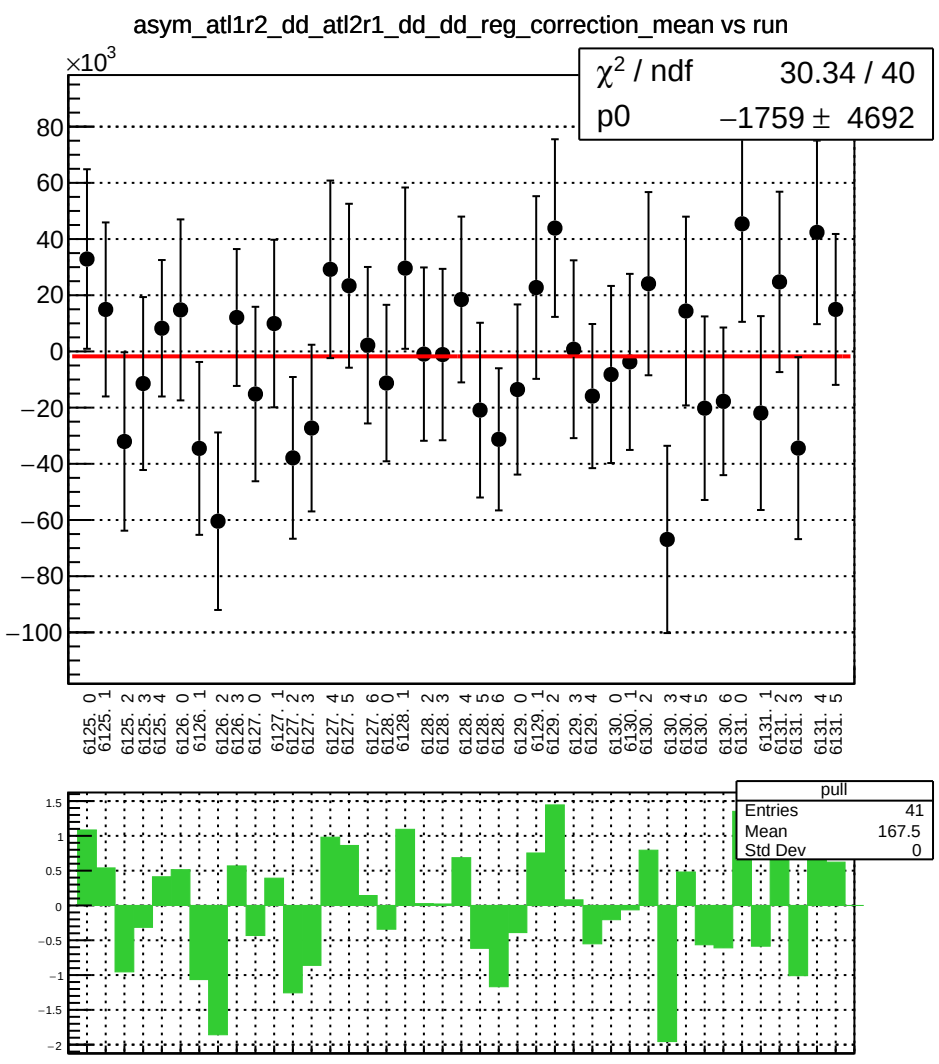

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 32.67 / 40
p0 −4.711e−14 ± 2.055e−13
10
5
0
−5
−10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 18.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.0546
Std Dev 0.891
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

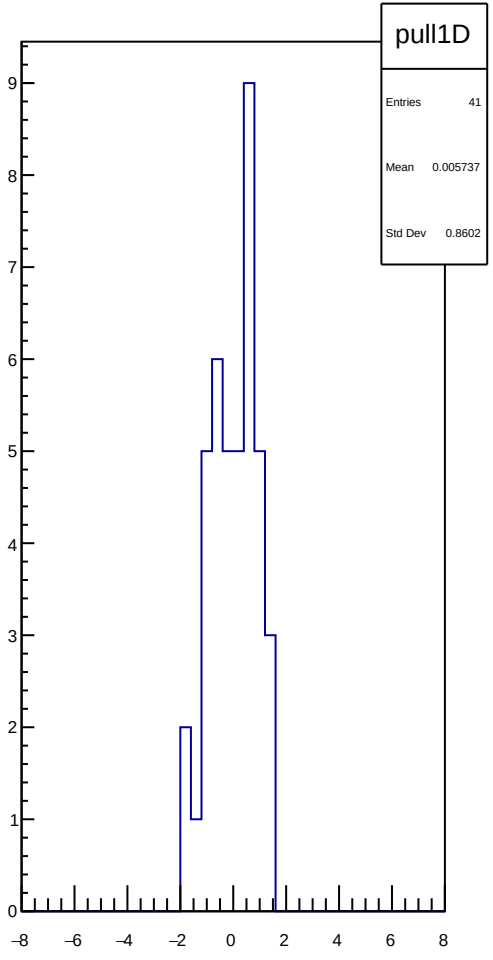

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.865e+05 / 40
p0 1.142e−10 ± 1.453e−13
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

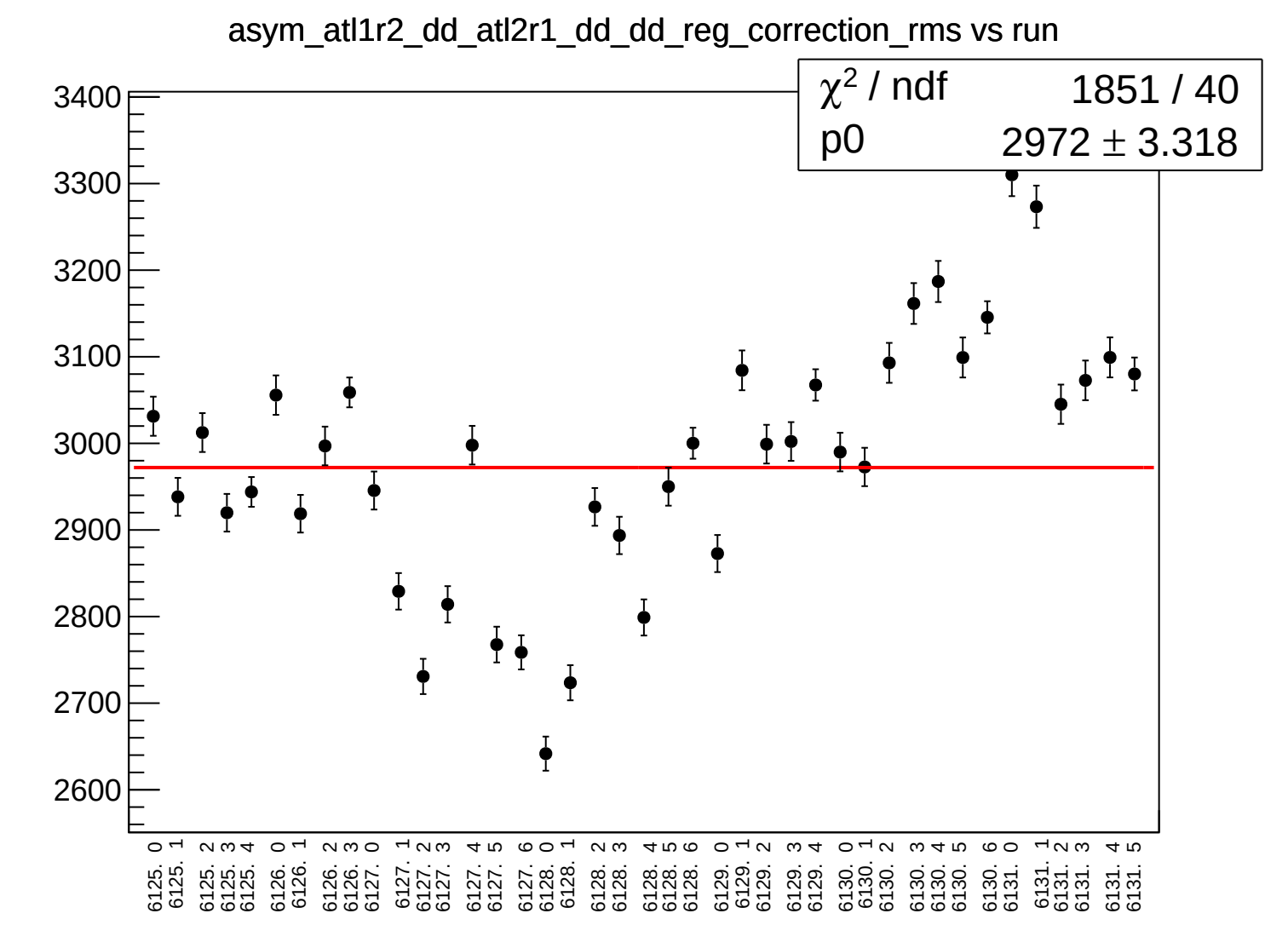

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 33.36 / 40
p0 −993.7 ± 1928
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 155
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

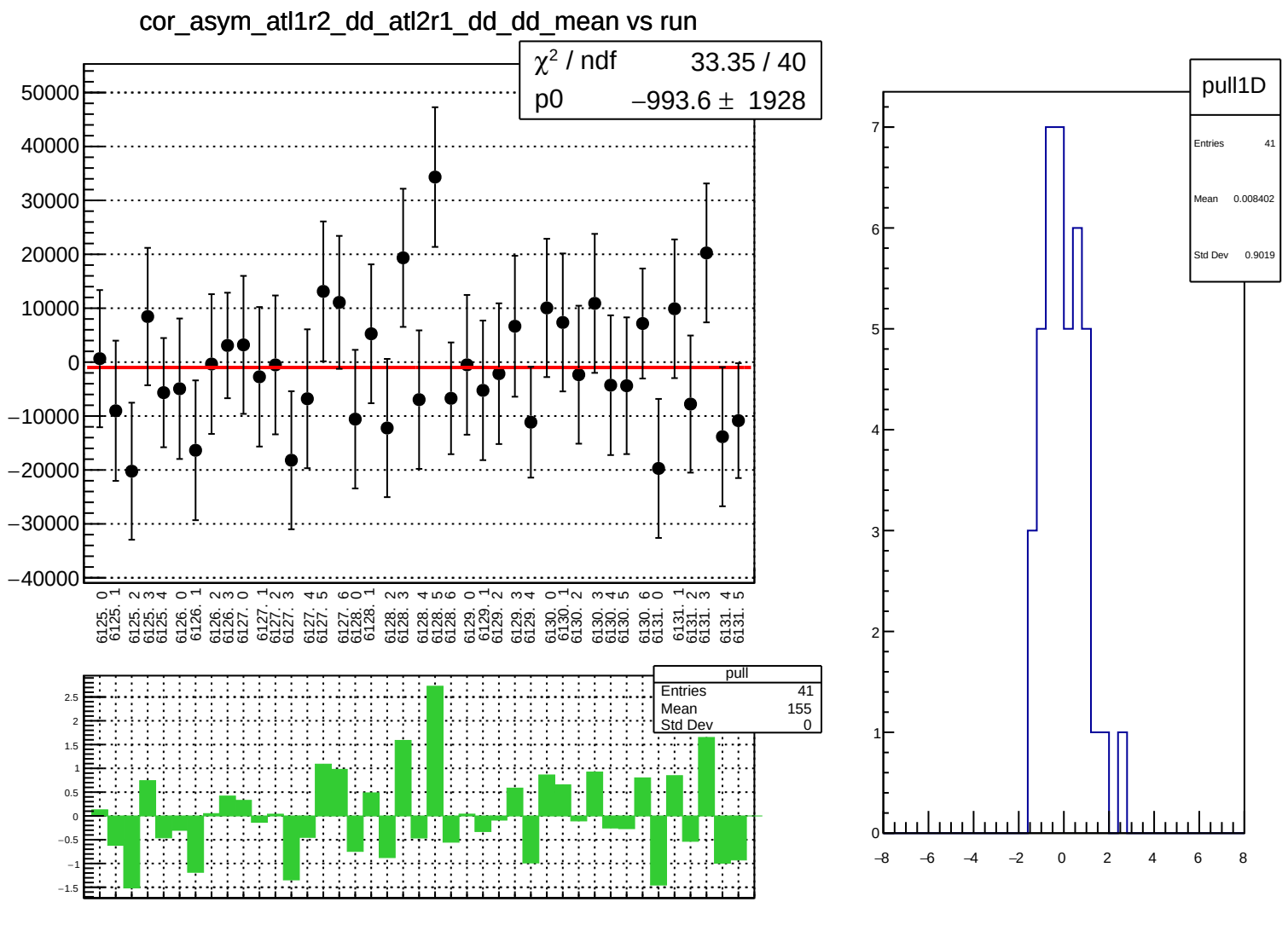

pull1D
Entries 41
Mean 0.008402
Std Dev 0.9019
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

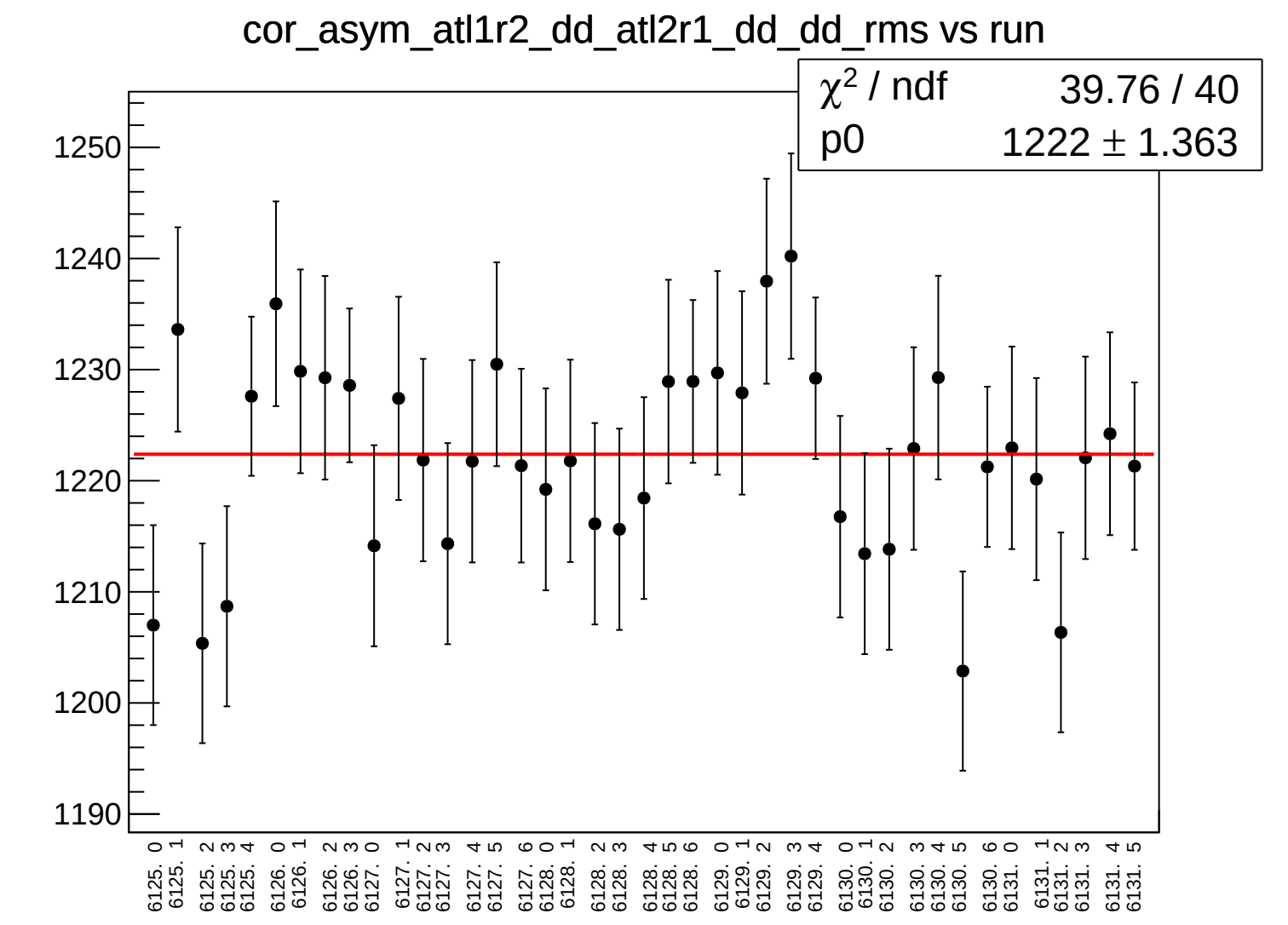

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 39.76 / 40
p0 1222 ± 1.363
1250
1240
1230
1220
1210
1200
1190
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

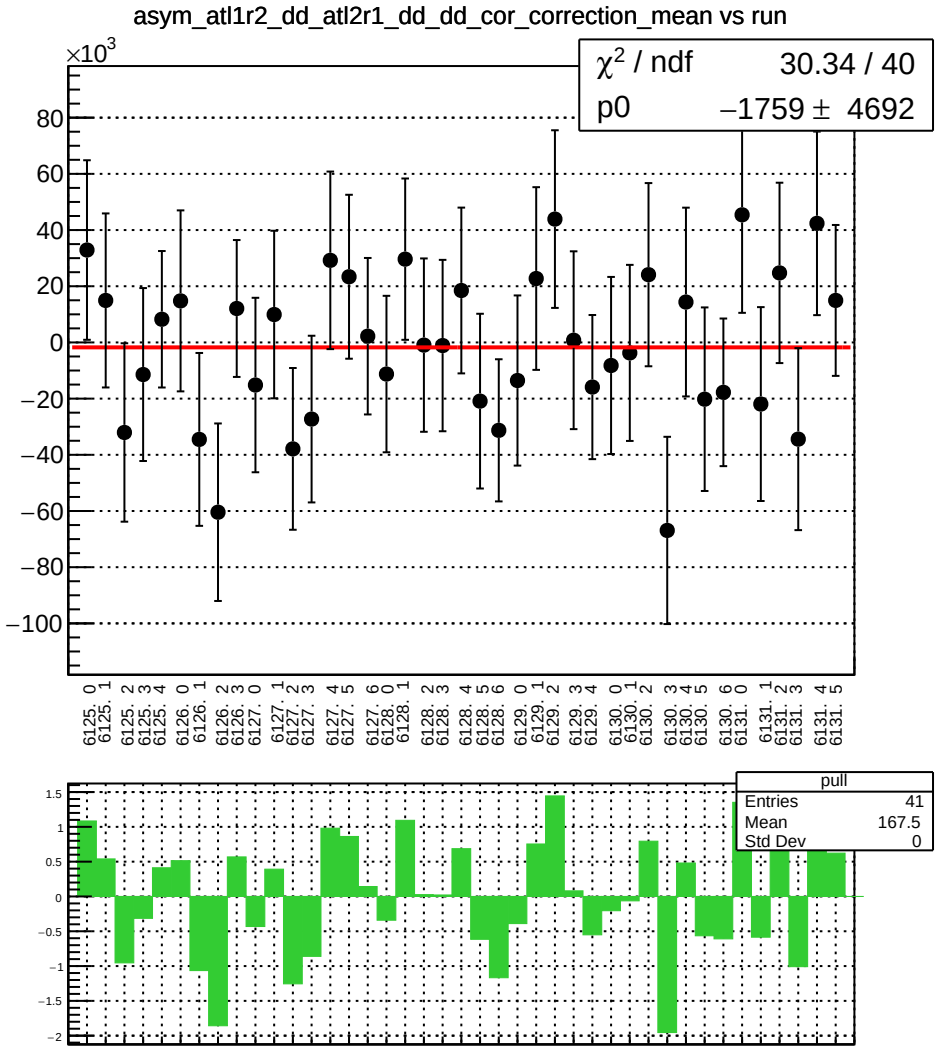

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 30.34 / 40
p0 −1759 ± 4692
80
60
40
20
0
−20
−40
−60
−80
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6126. 4
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 167.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

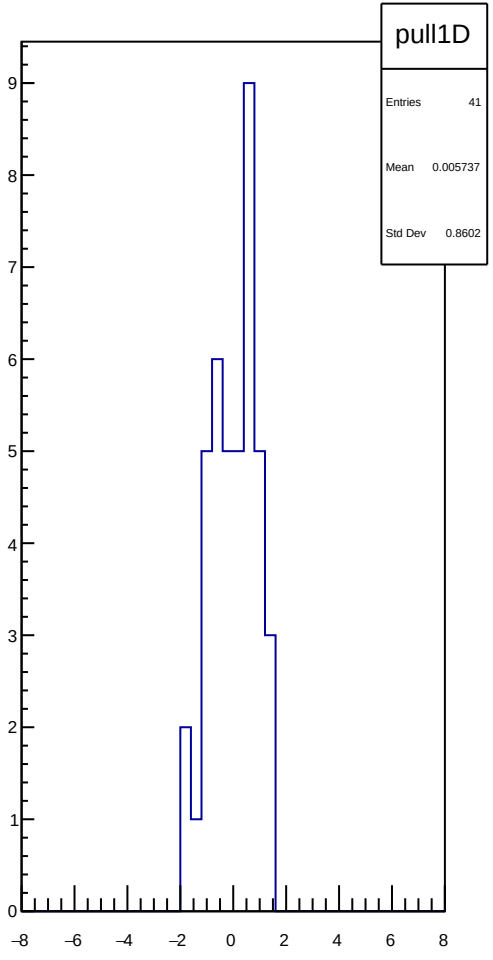

pull1D
Entries 41
Mean 0.005737
Std Dev 0.8602
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

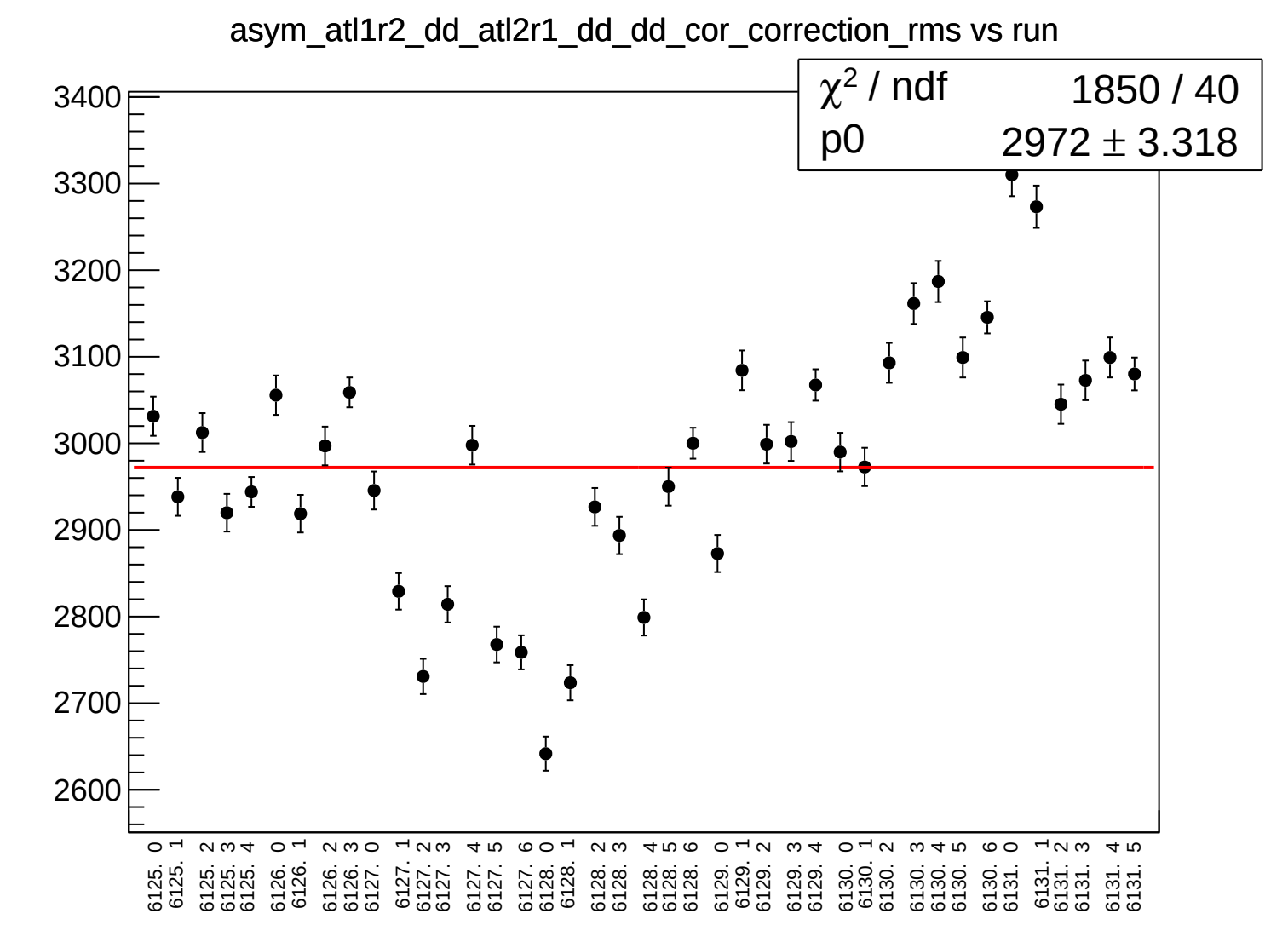

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 1851 / 40
p0 2972 ± 3.318
3400
3300
3200
3100
3000
2900
2800
2700
2600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

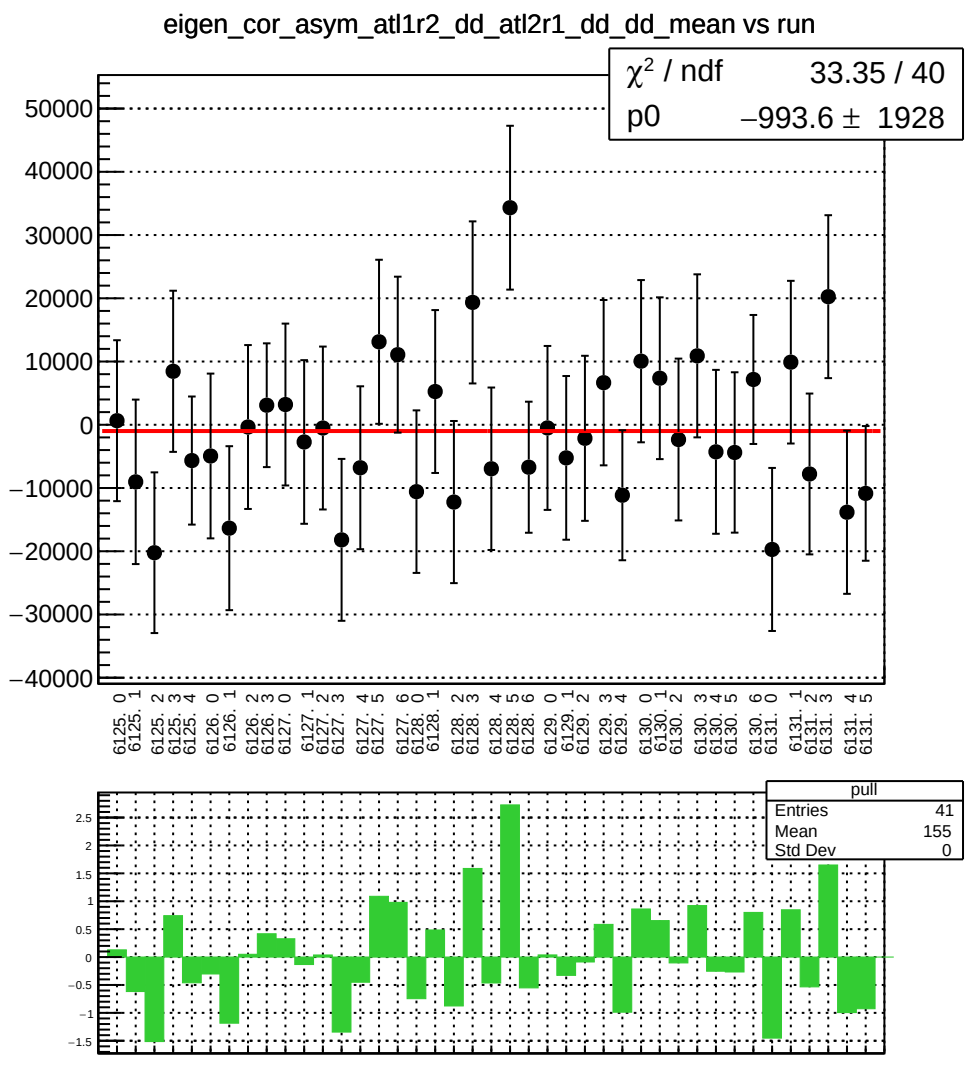

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 33.35 / 40
p0 −993.6 ± 1928
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 155
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.008402
Std Dev 0.9019
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

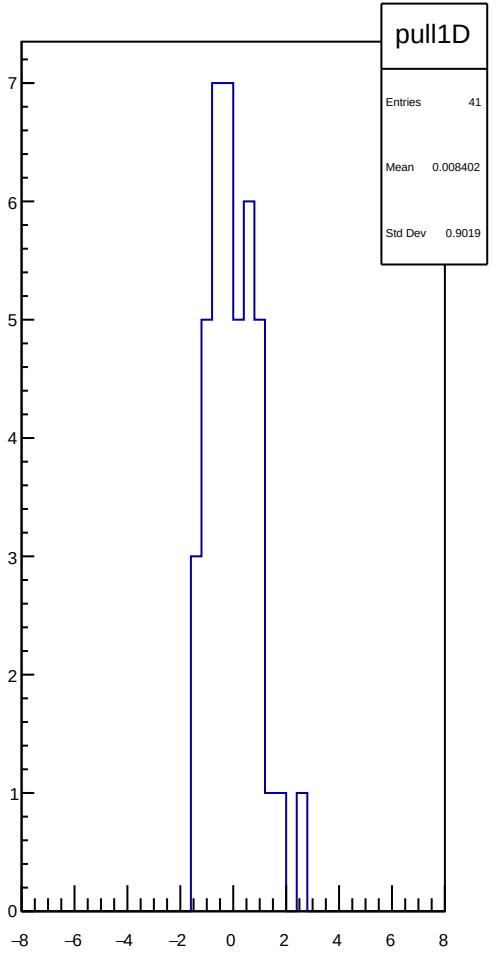

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 39.76 / 40
p0 1222 ± 1.363
1250
1240
1230
1220
1210
1200
1190
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

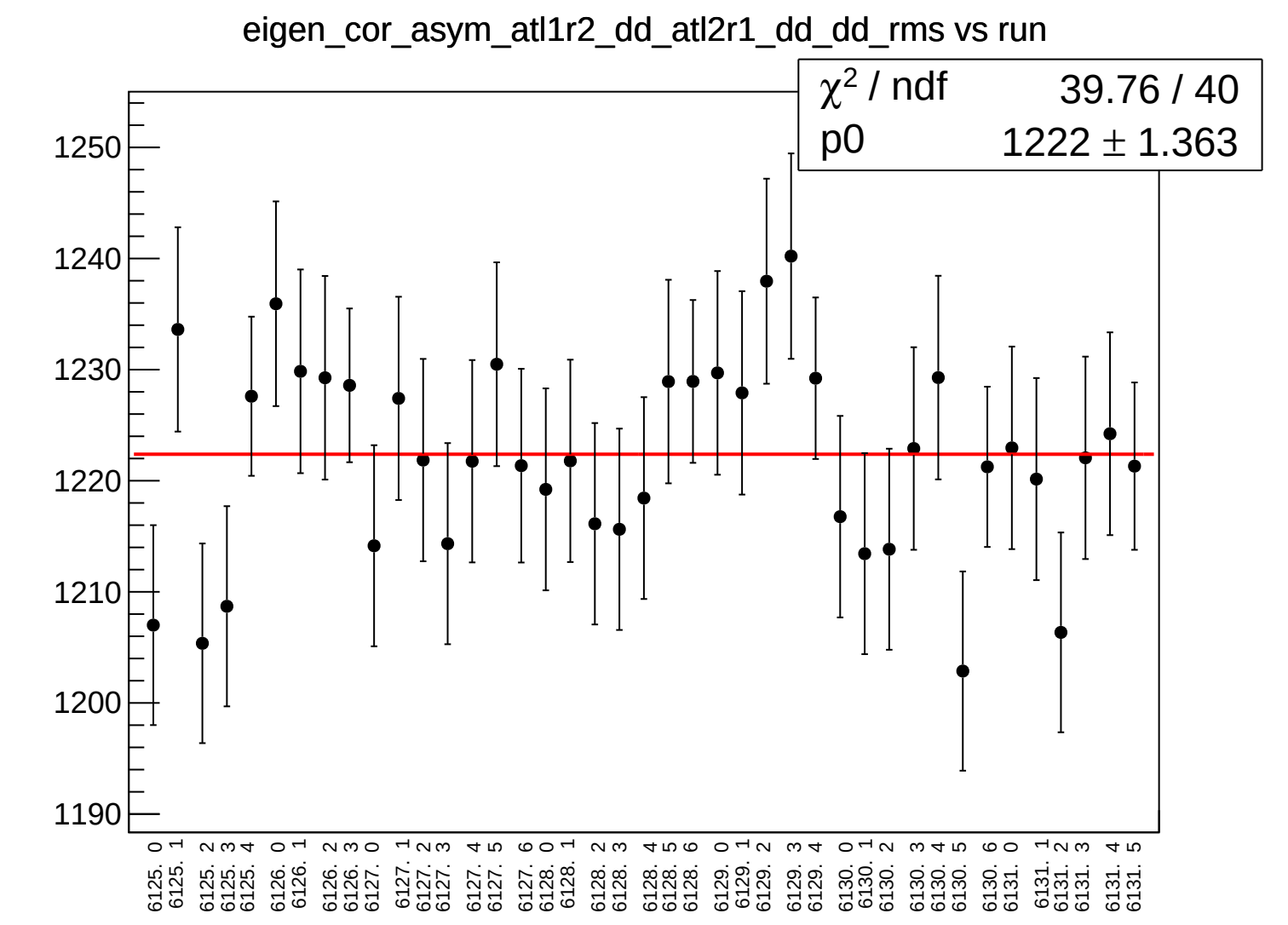

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 30.34 / 40
p0 −1759 ± 4692
pull
Entries 41
Mean 167.5
Std Dev 0

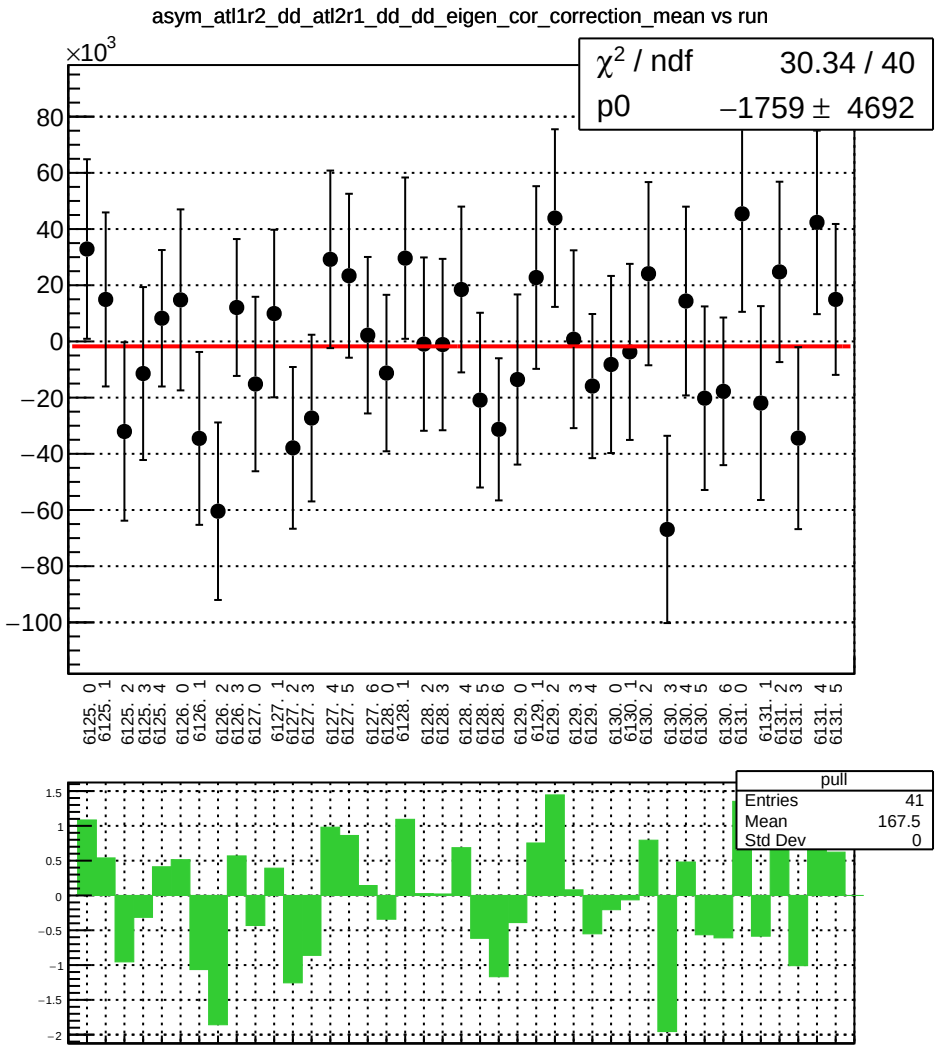

pull1D
Entries 41
Mean 0.005737
Std Dev 0.8602

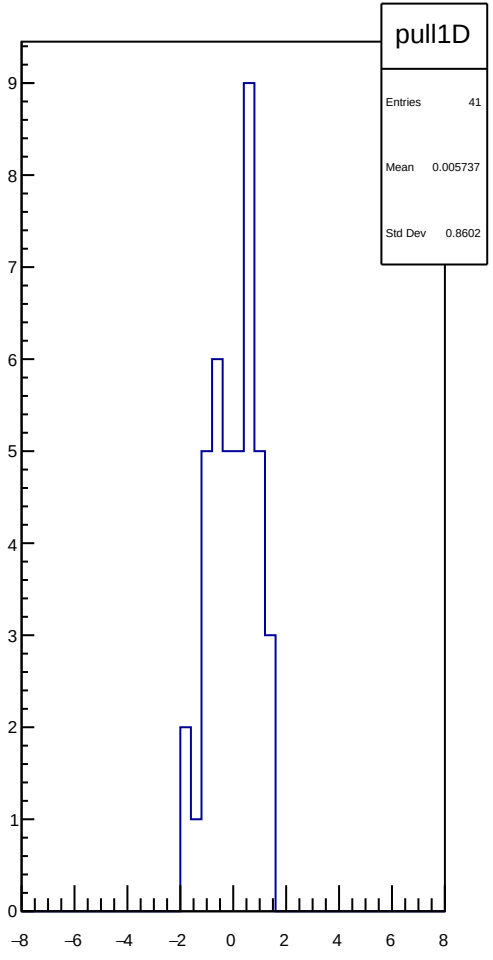

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 1850 / 40
p0 2972 ± 3.318
3400
3300
3200
3100
3000
2900
2800
2700
2600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

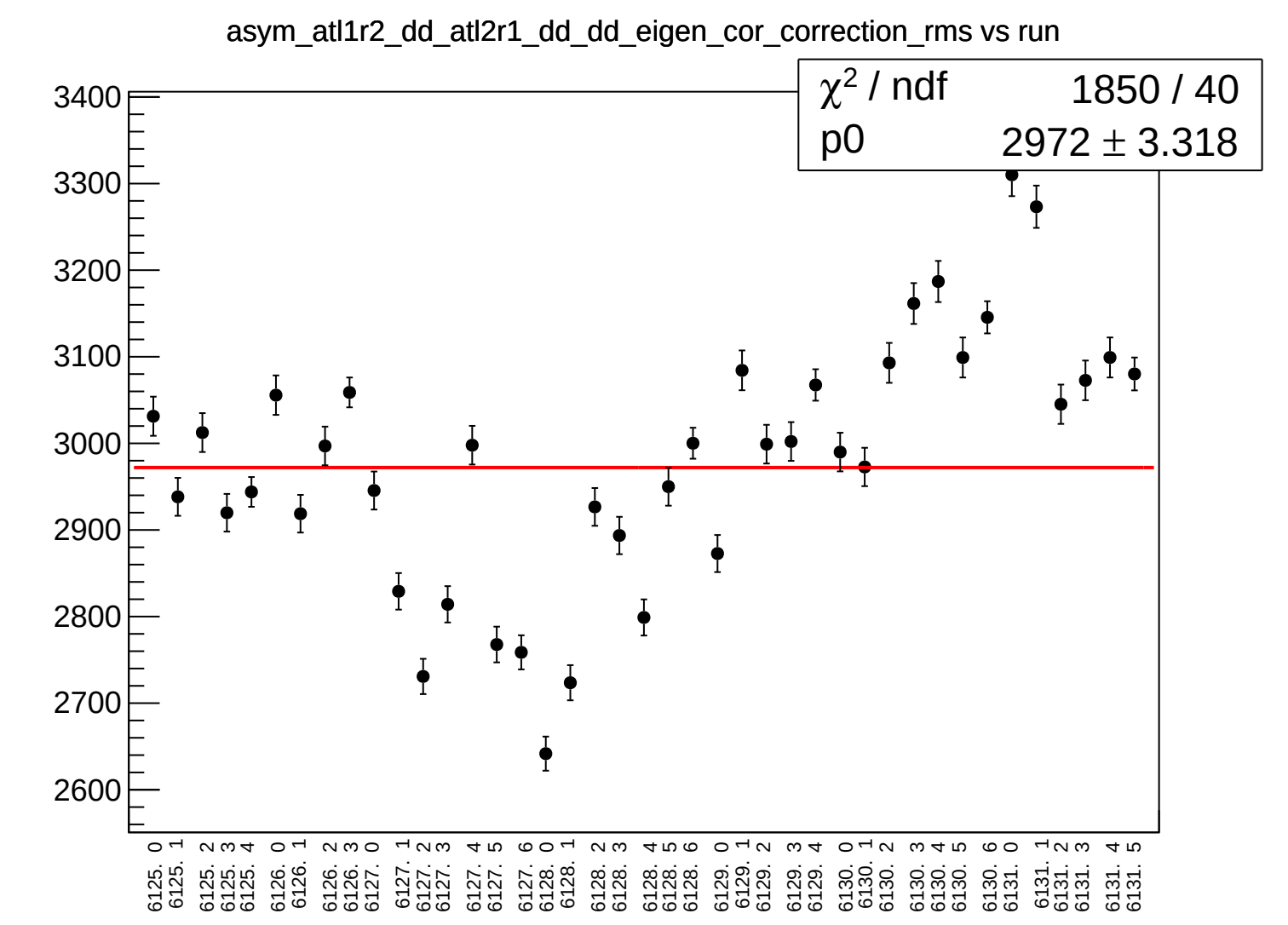

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 33.35 / 40
p0 −993.6 ± 1928
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 155
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

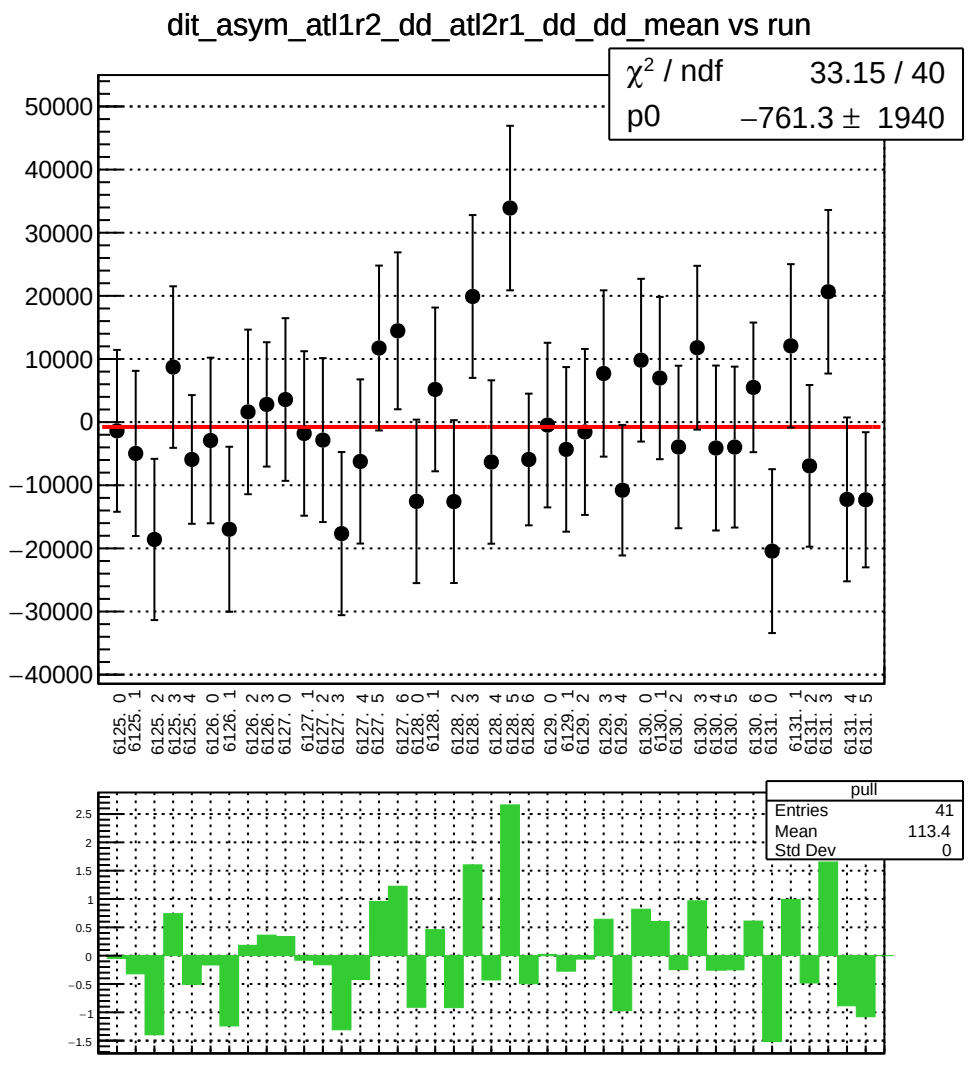

pull1D
Entries 41
Mean 0.008402
Std Dev 0.9019
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

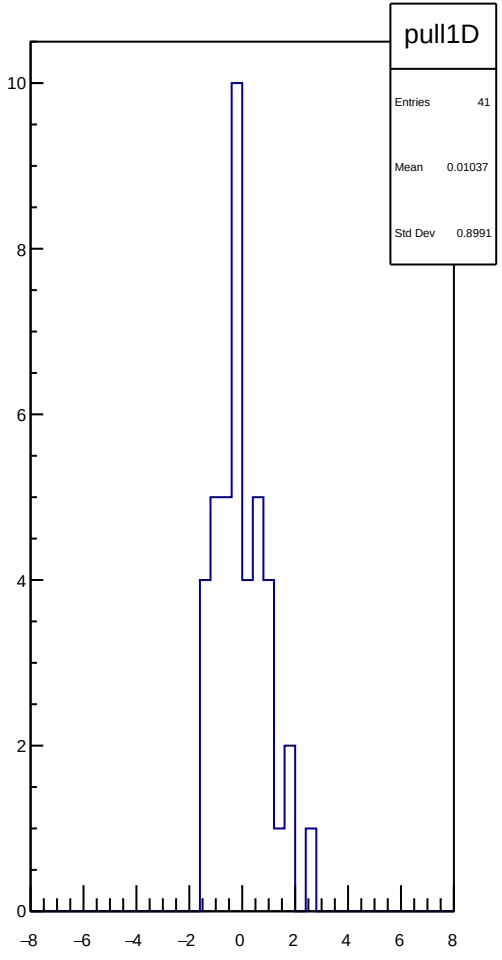

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 39.76 / 40
p0 1222 ± 1.363
1250
1240
1230
1220
1210
1200
1190
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

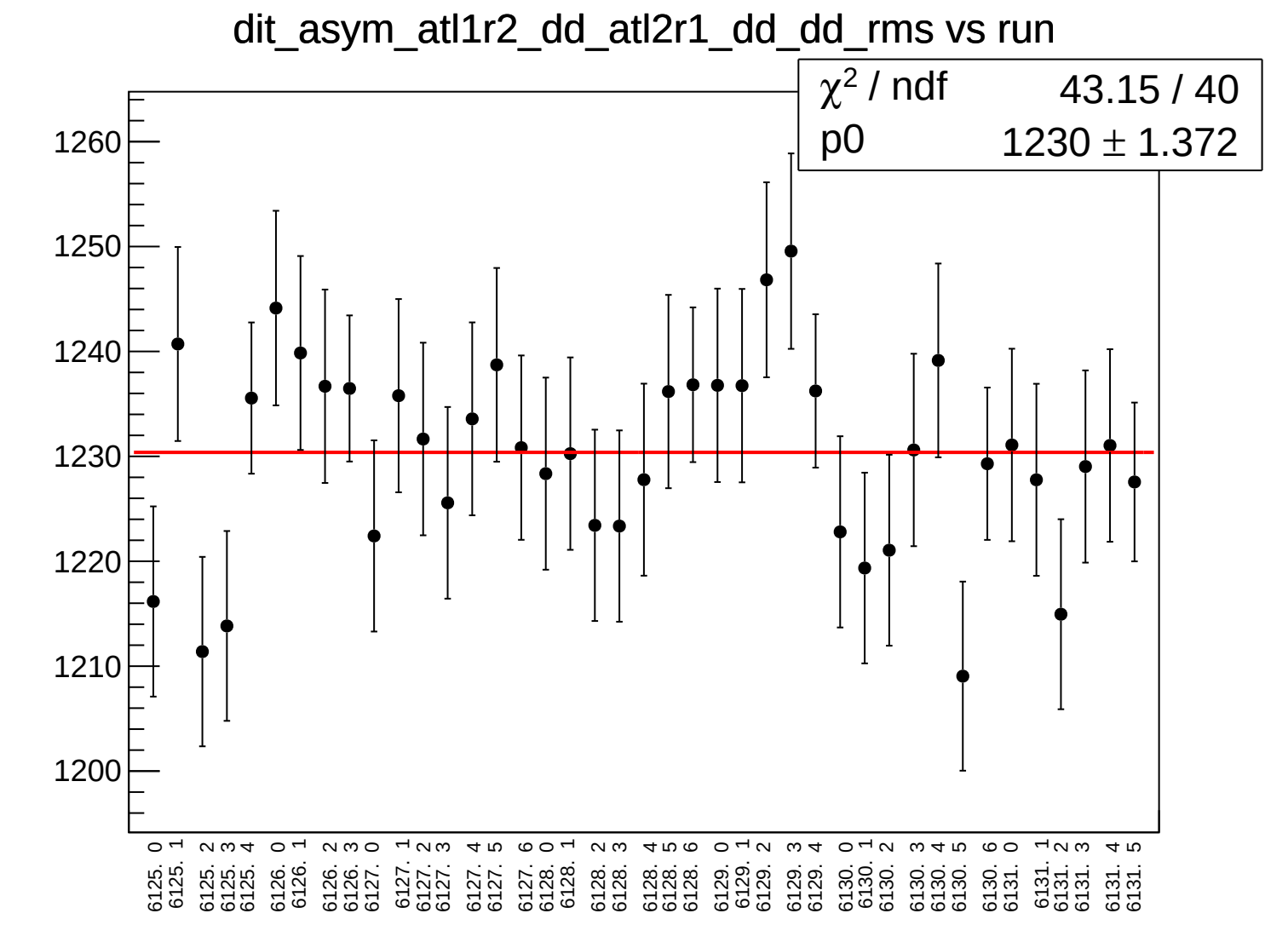

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 30.34 / 40
p0 −1759 ± 4692
80
60
40
20
0
−20
−40
−60
−80
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 167.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

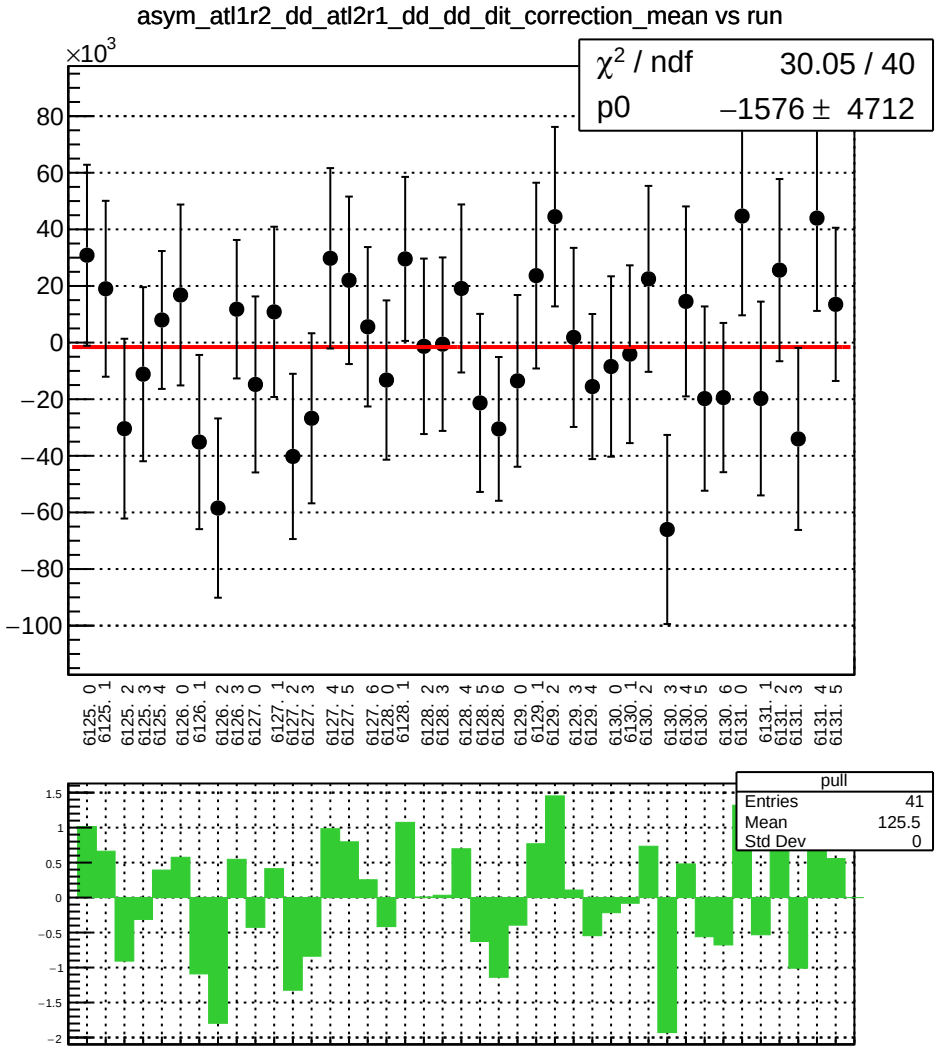

pull1D
Entries 41
Mean 0.005737
Std Dev 0.8602
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

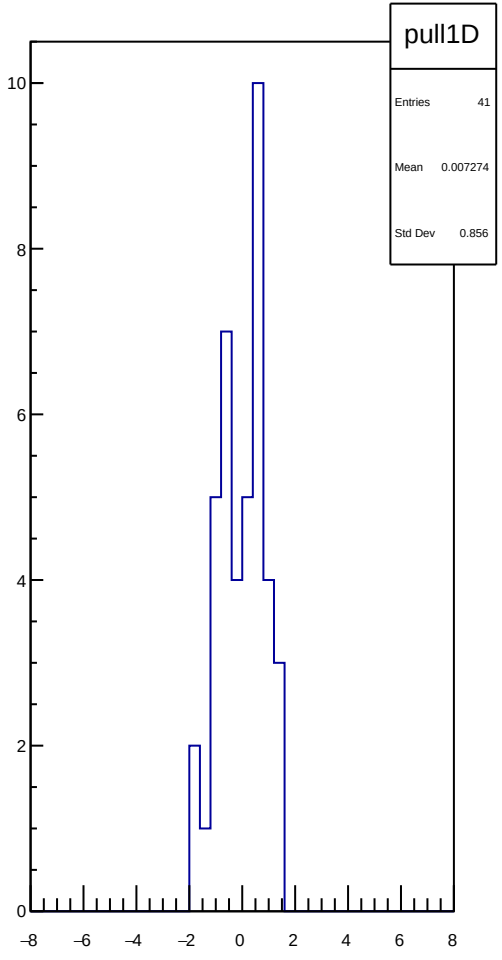

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1850 / 40
p0 2972 ± 3.318
3400
3300
3200
3100
3000
2900
2800
2700
2600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

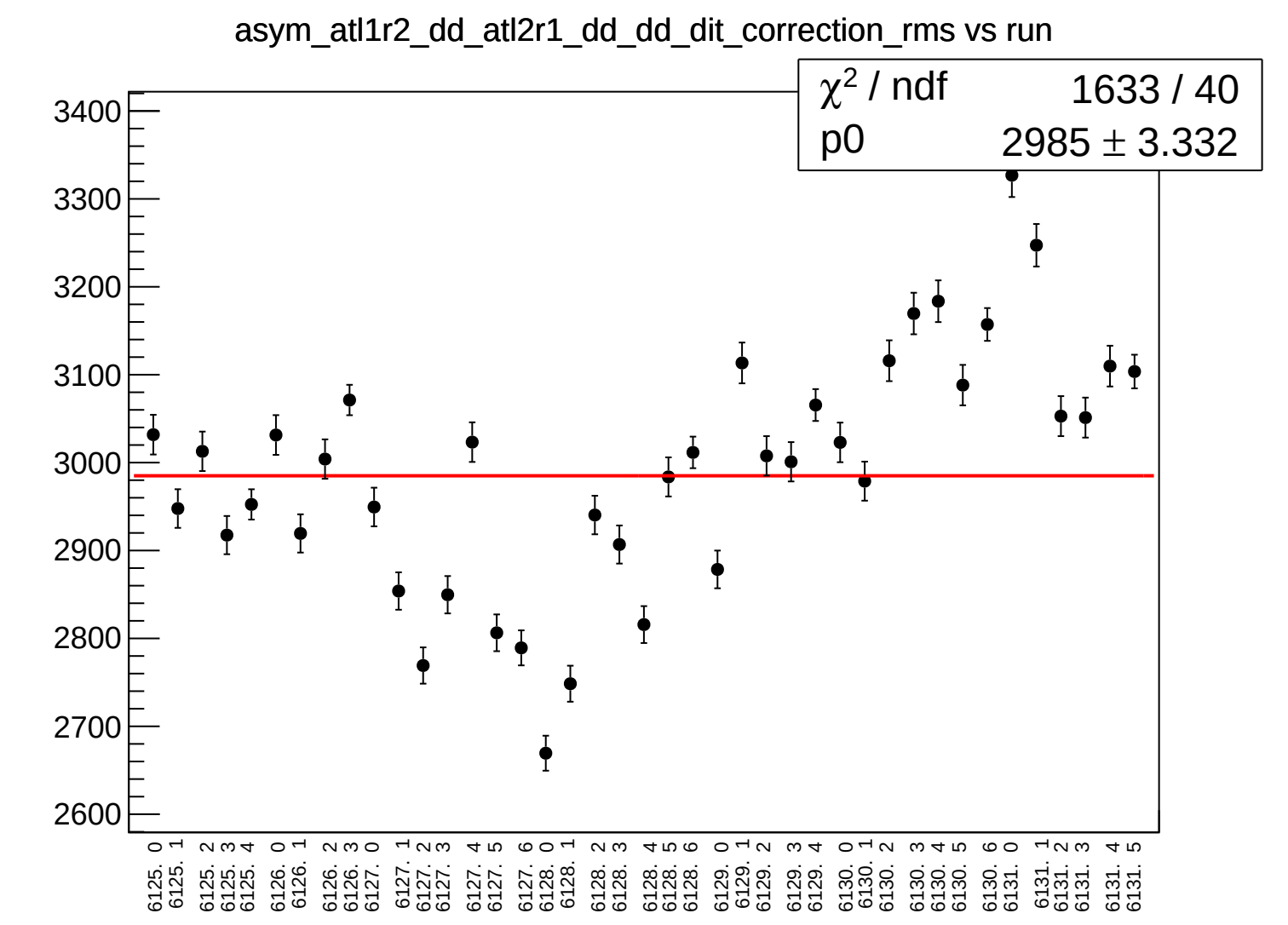

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 33.15 / 40
p0 −761.3 ± 1940
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 113.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

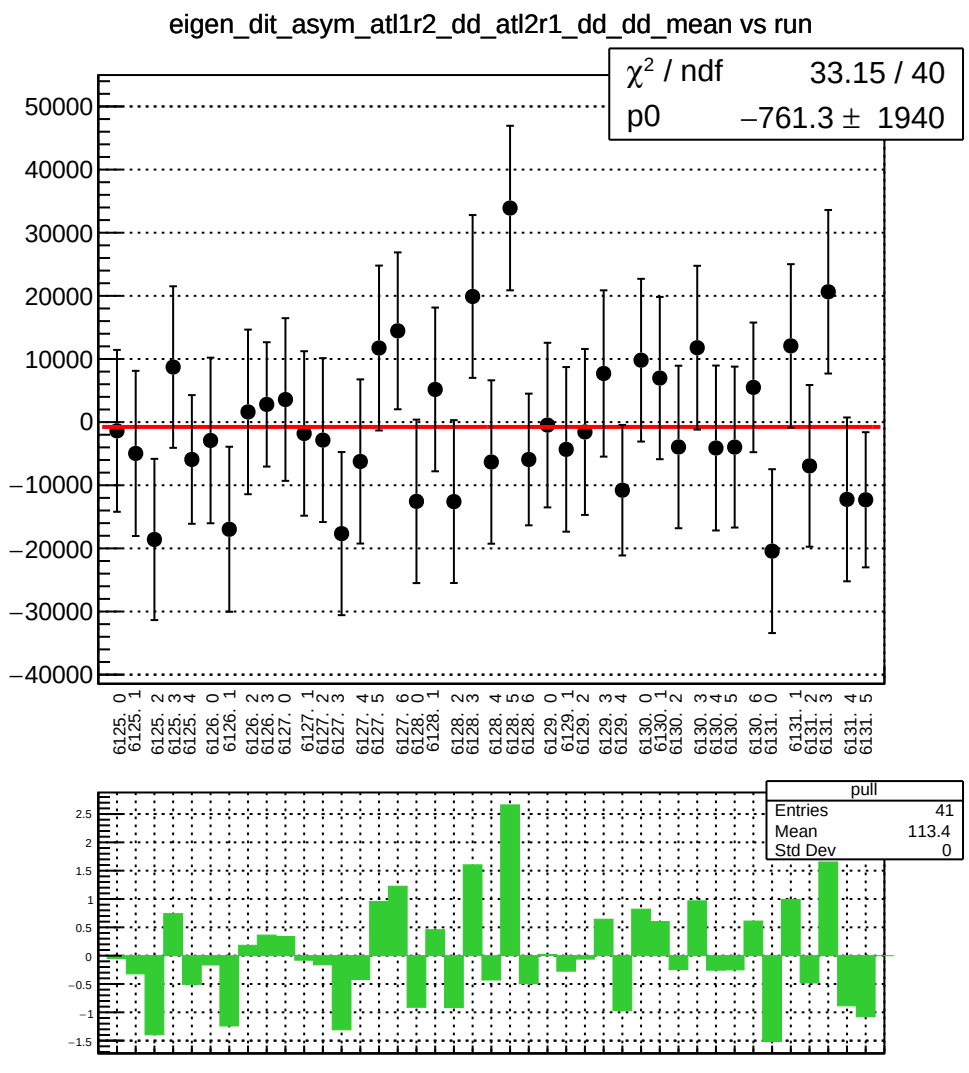

pull1D
Entries 41
Mean 0.01037
Std Dev 0.8991
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

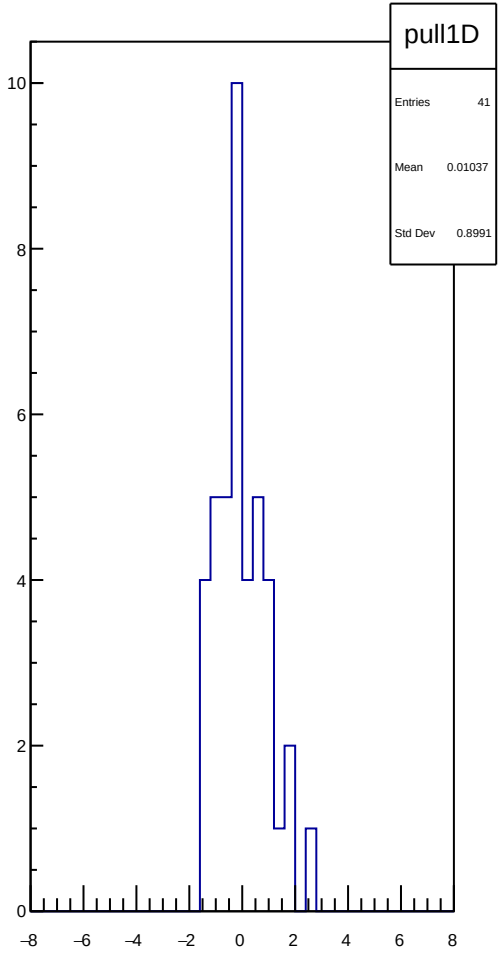

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 43.15 / 40
p0 1230 ± 1.372
1260
1250
1240
1230
1220
1210
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

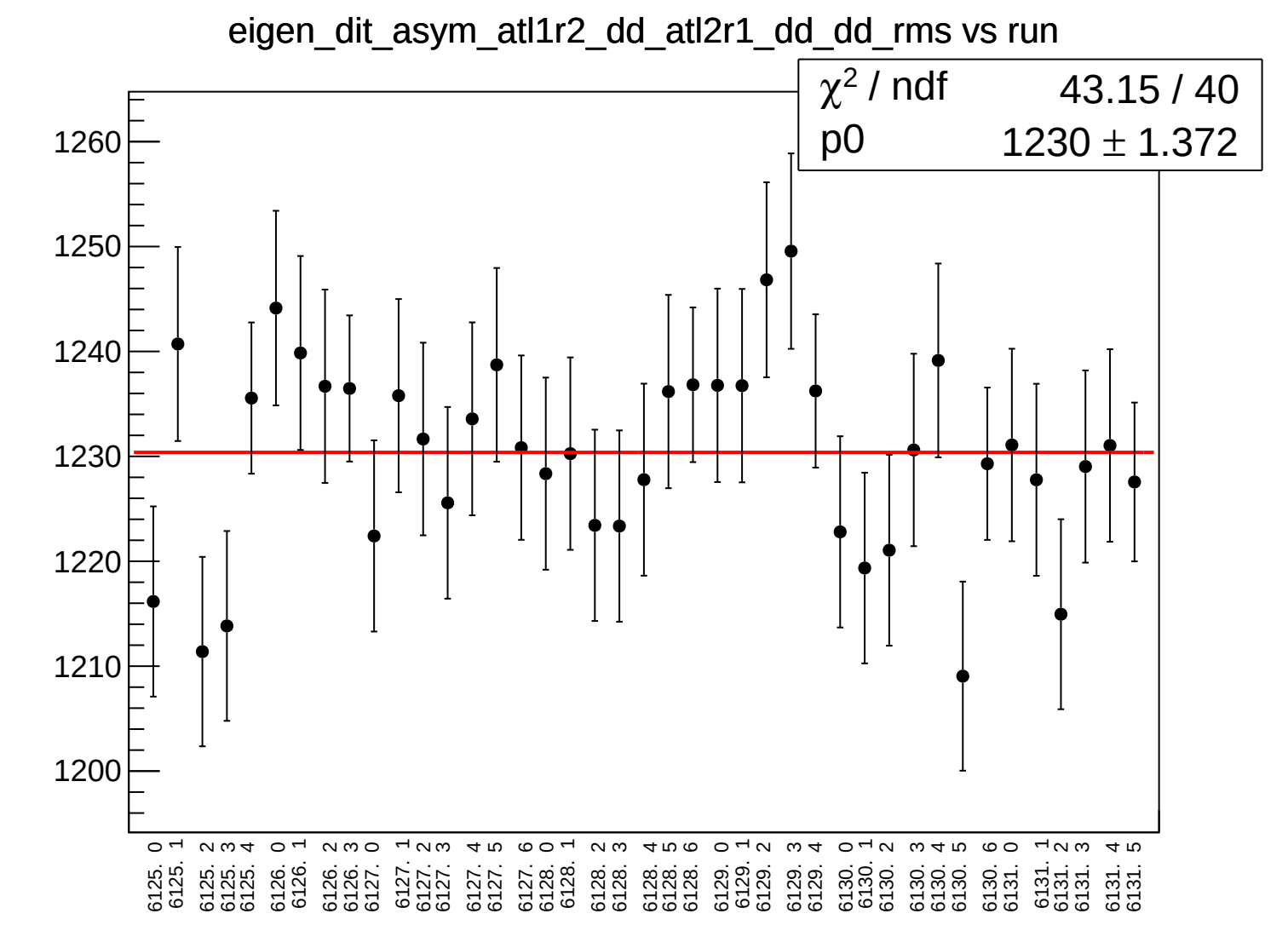

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 30.05 / 40
p0 −1576 ± 4712
pull
Entries 41
Mean 125.5
Std Dev 0

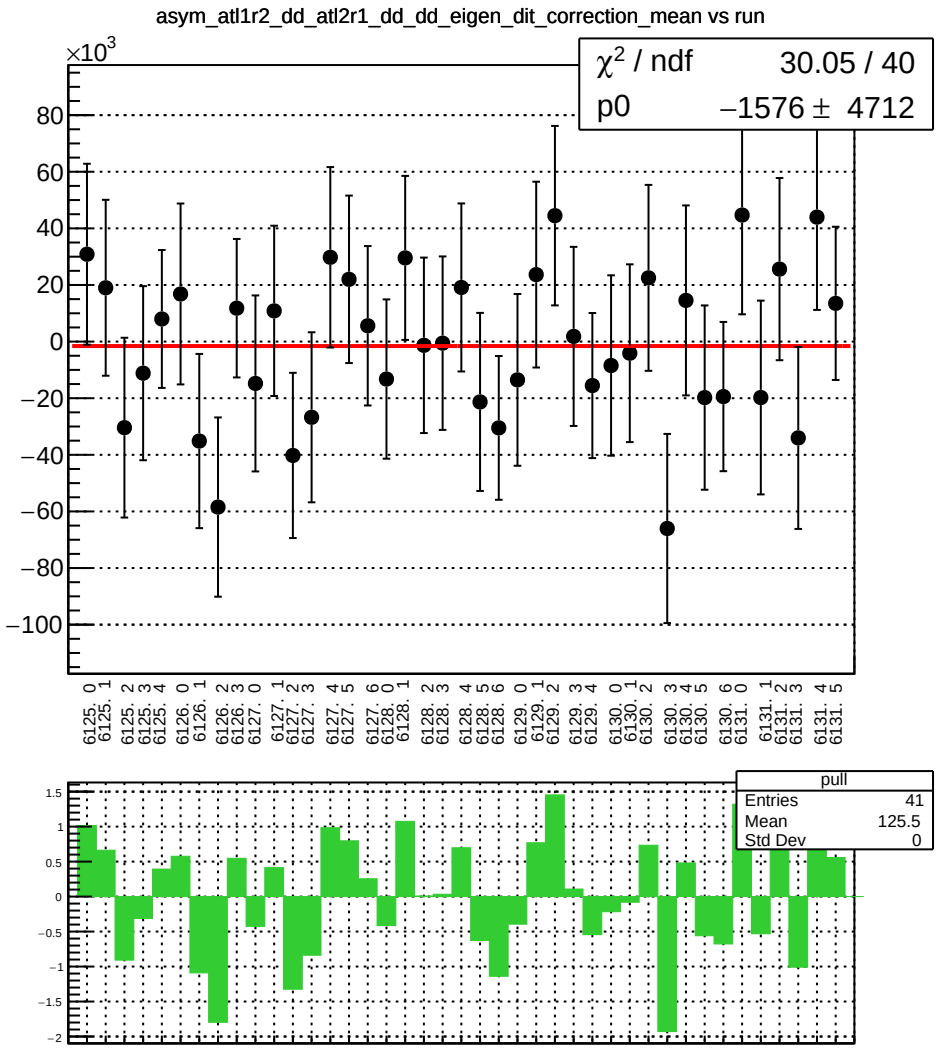

pull1D
Entries 41
Mean 0.007274
Std Dev 0.856

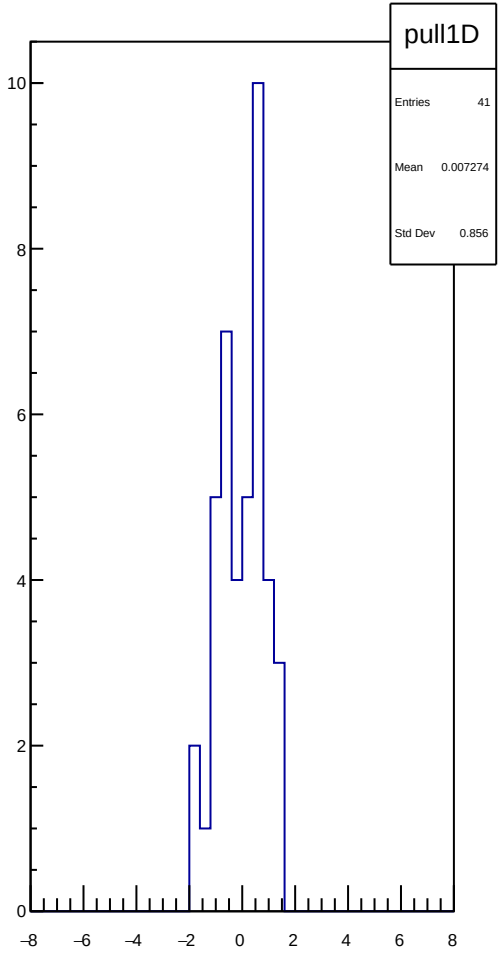

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 1633 / 40
p0 2985 ± 3.332
3400
3300
3200
3100
3000
2900
2800
2700
2600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

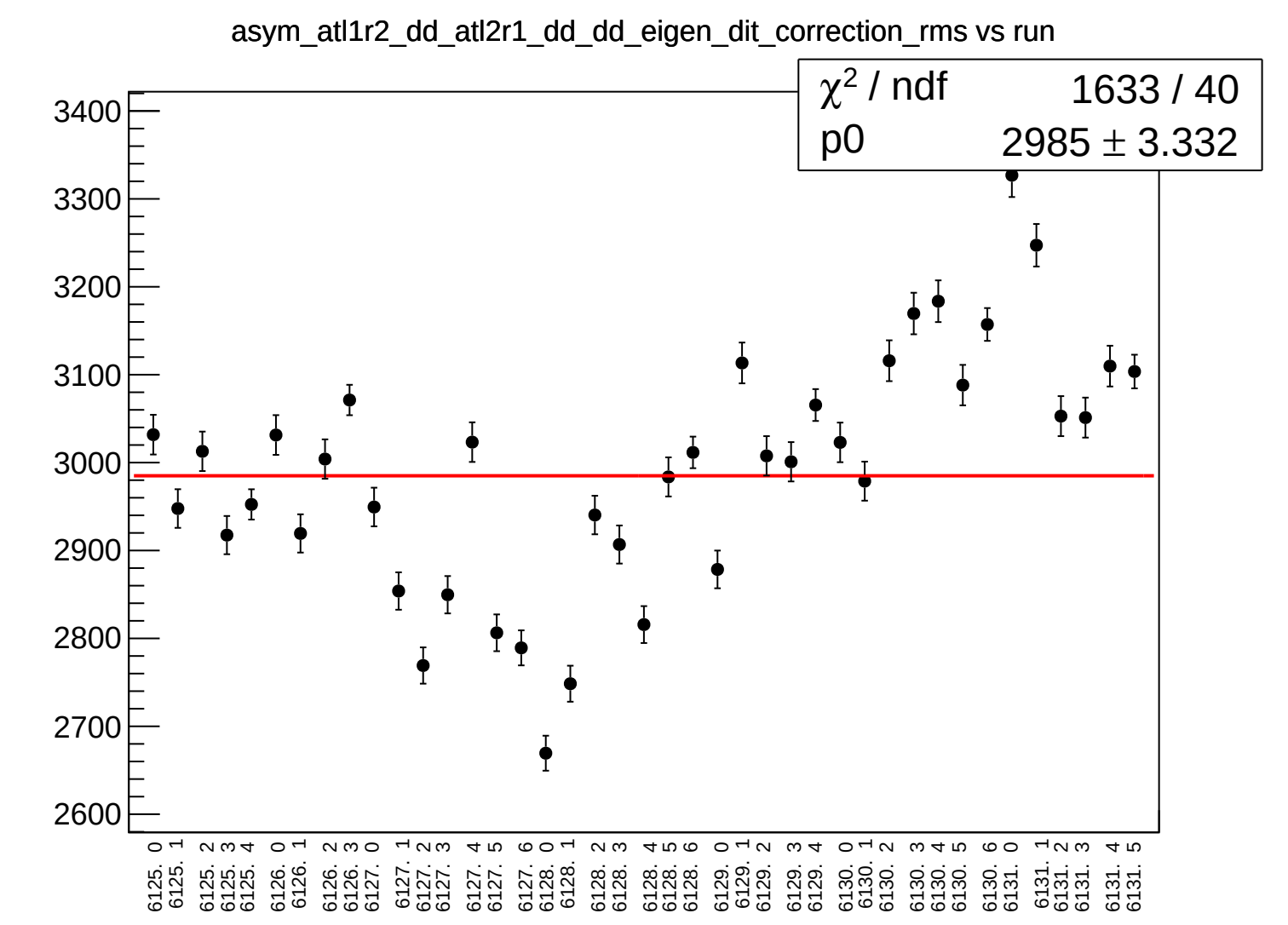

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 33.15 / 40
p0 −761.3 ± 1940
pull
Entries 41
Mean 113.4
Std Dev 0

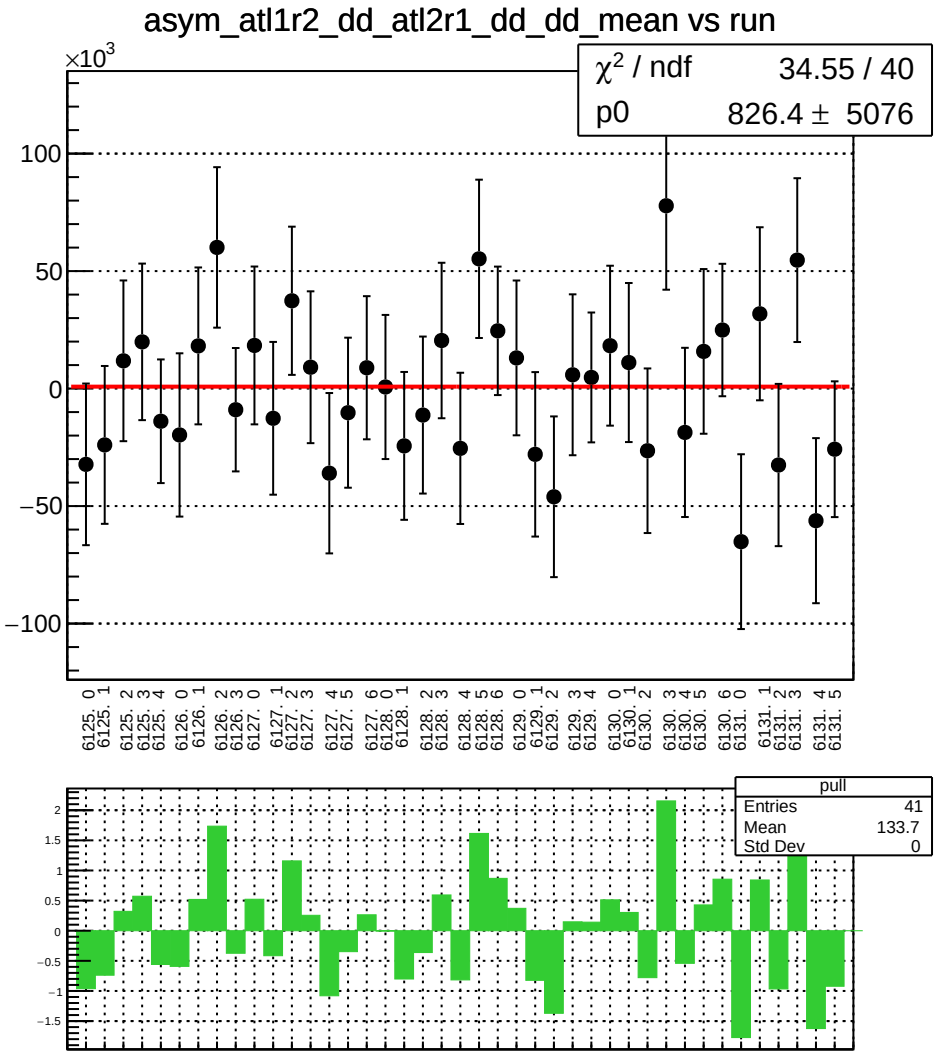

pull1D
Entries 41
Mean 0.01037
Std Dev 0.8991

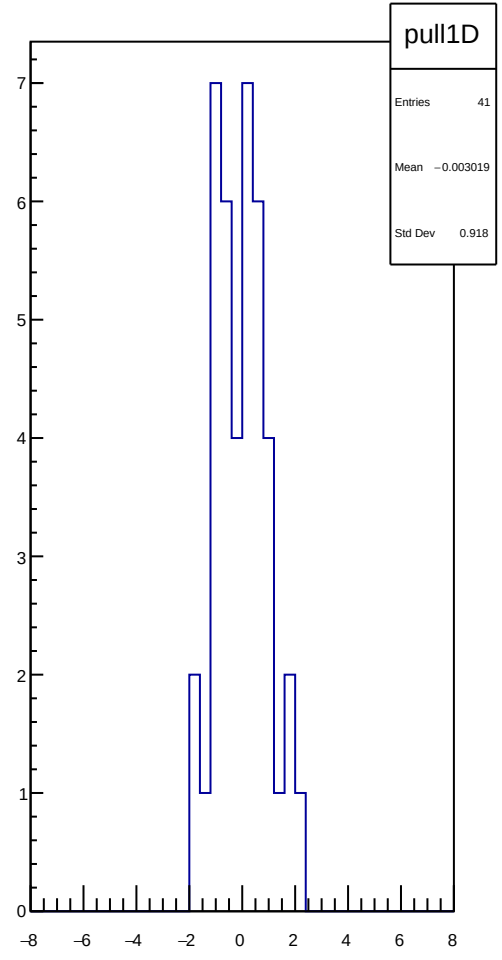

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 43.15 / 40
p0 1230 ± 1.372
1260
1250
1240
1230
1220
1210
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

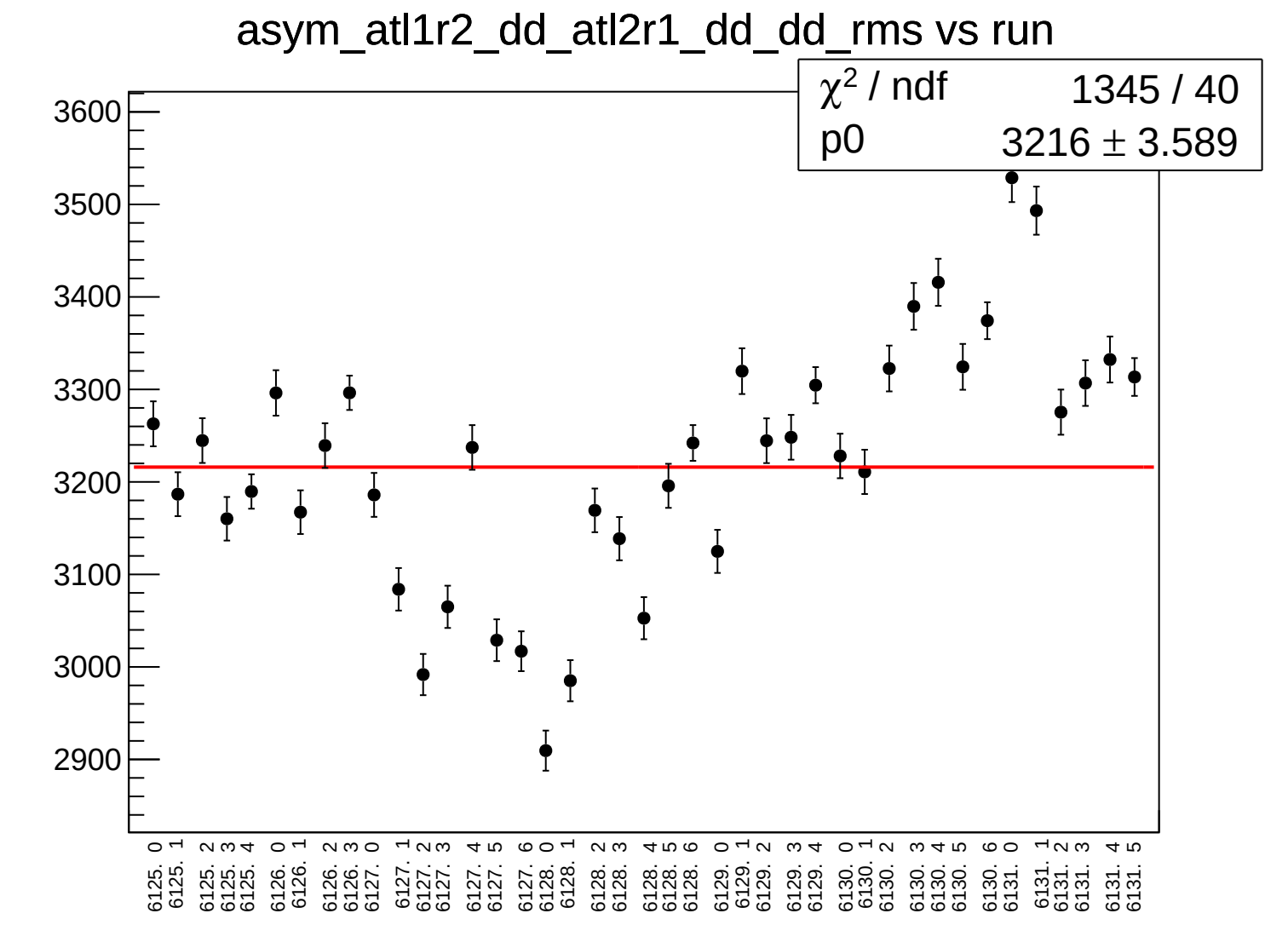

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 30.05 / 40
p0 −1576 ± 4712
pull
Entries 41
Mean 125.5
Std Dev 0

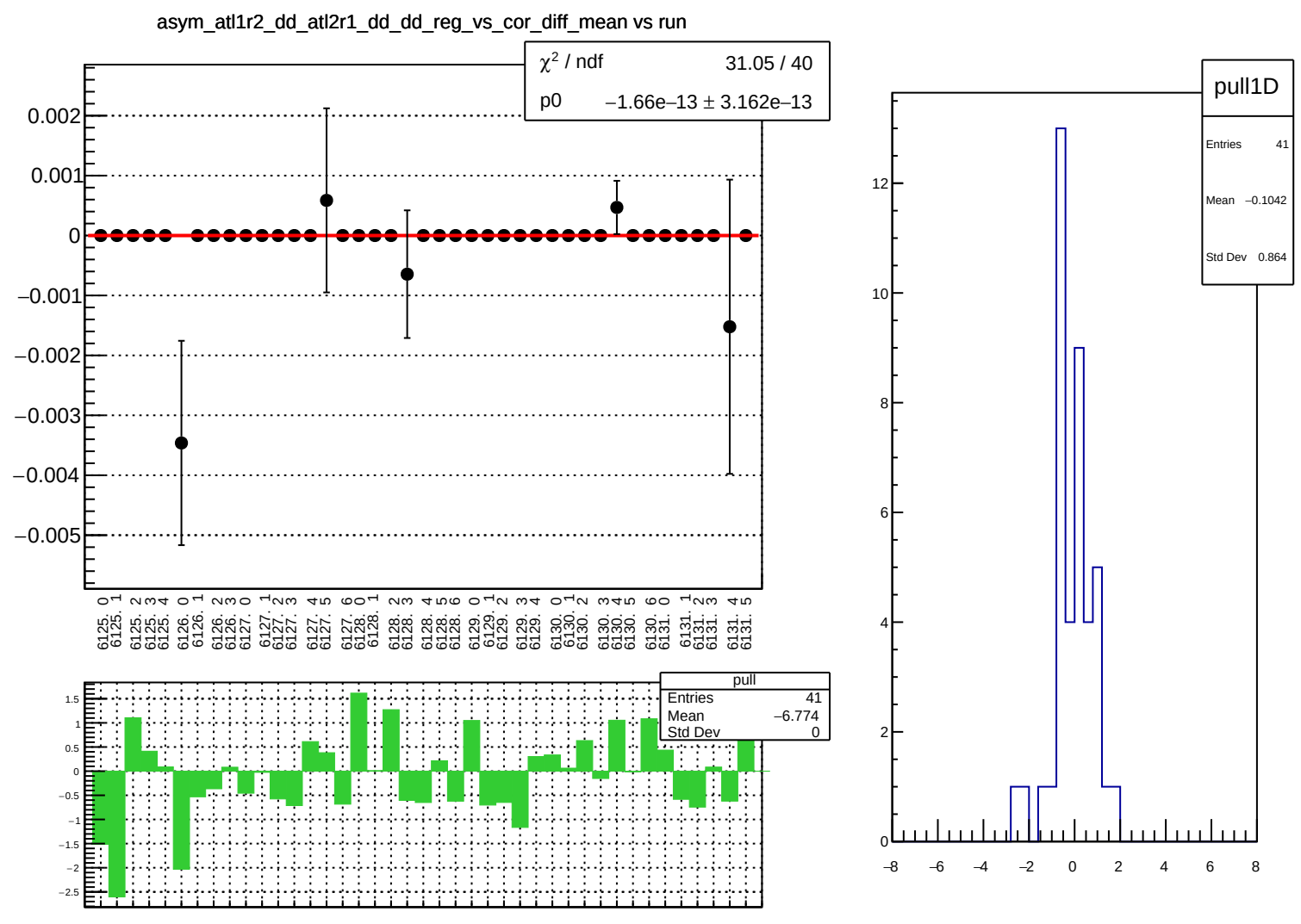

pull1D
Entries 41
Mean 0.007274
Std Dev 0.856

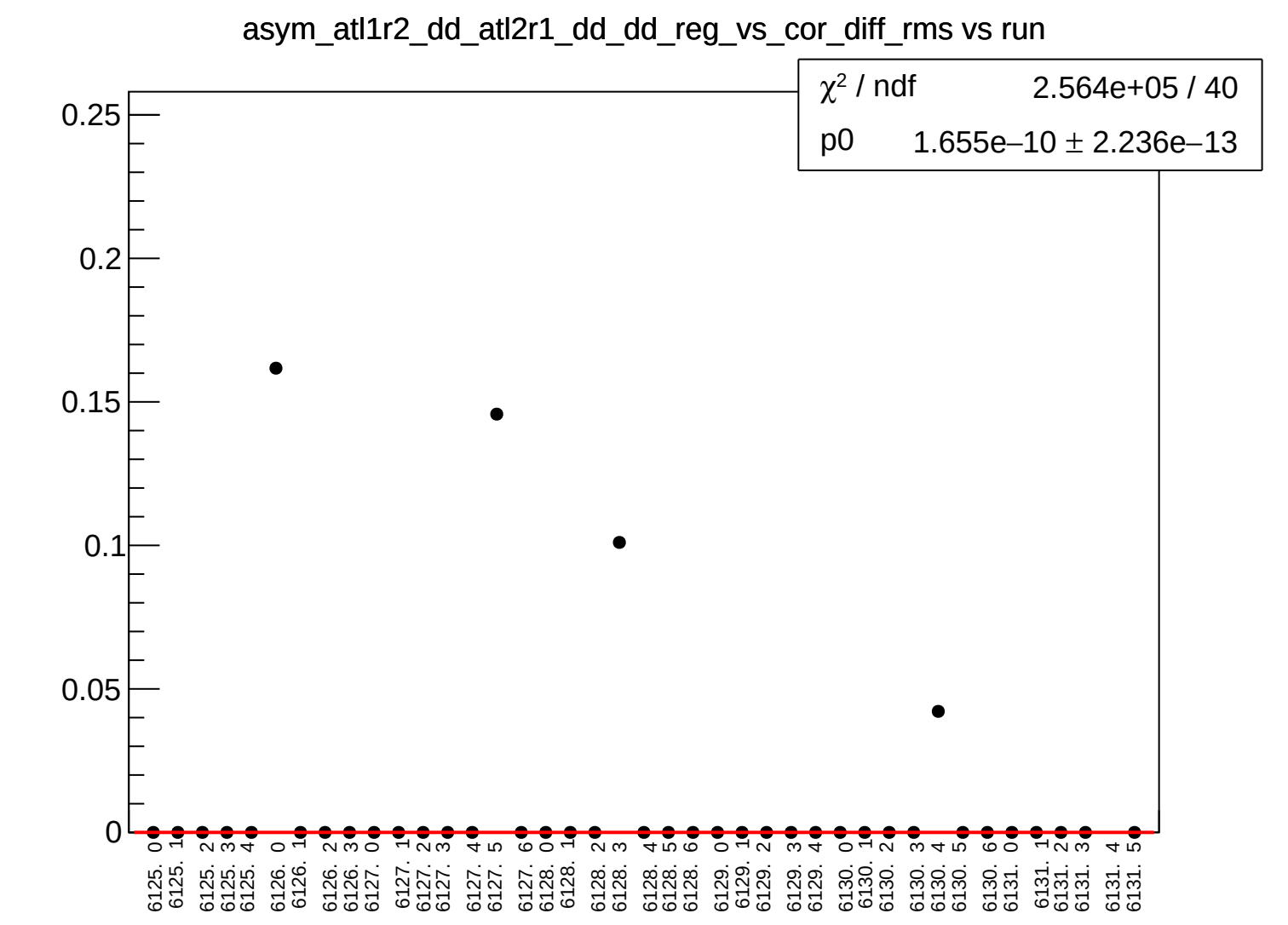

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1633 / 40
p0 2985 ± 3.332
3400
3300
3200
3100
3000
2900
2800
2700
2600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 34.55 / 40
p0 826.4 ± 5076
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 133.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

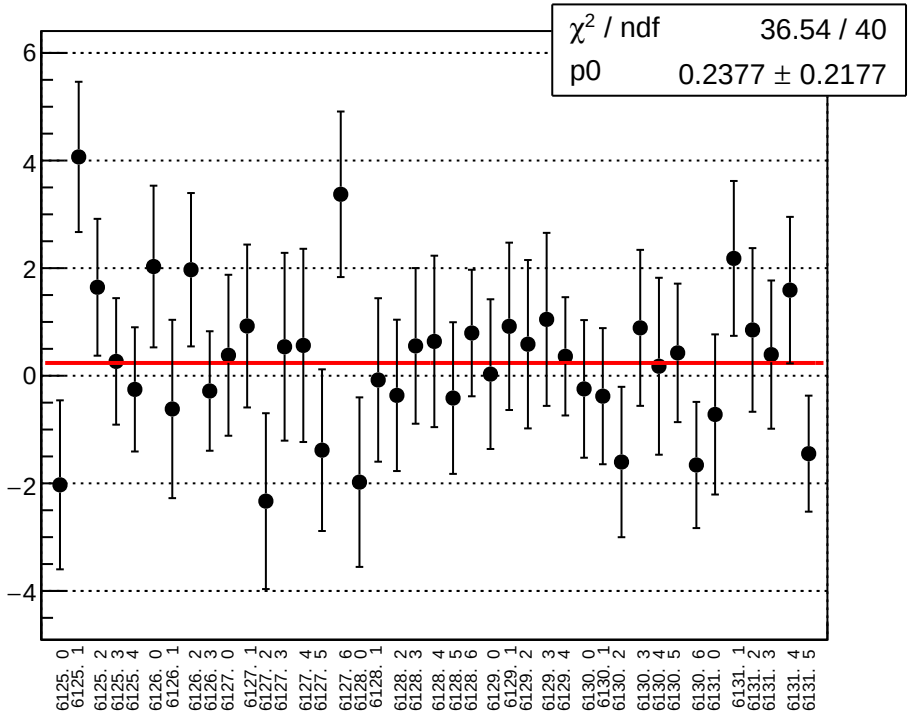

pull1D
Entries 41
Mean −0.003019
Std Dev 0.918
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

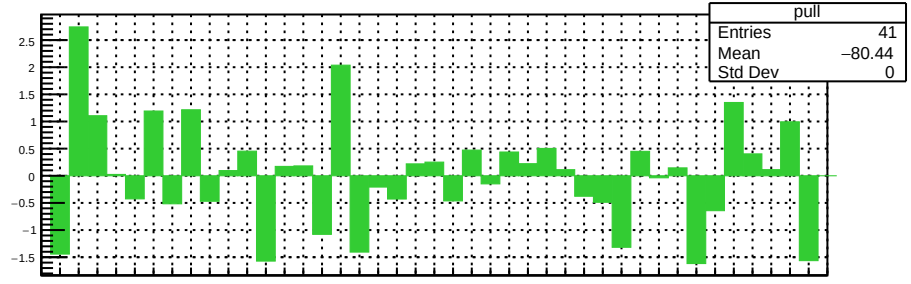

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1345 / 40
p0 3216 ± 3.589
3600
3500
3400
3300
3200
3100
3000
2900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

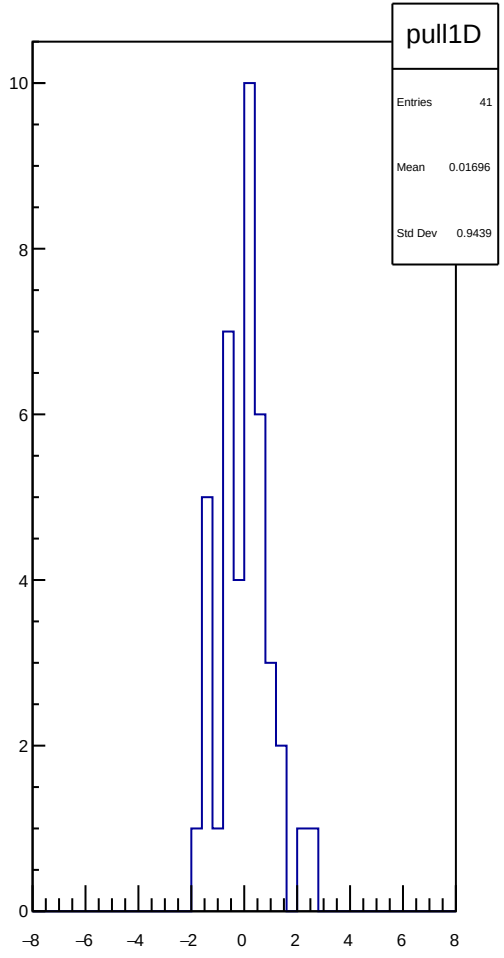

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 31.05 / 40
p0 −1.66e−13 ± 3.162e−13
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
−0.005
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −6.774
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean −0.1042
Std Dev 0.864
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

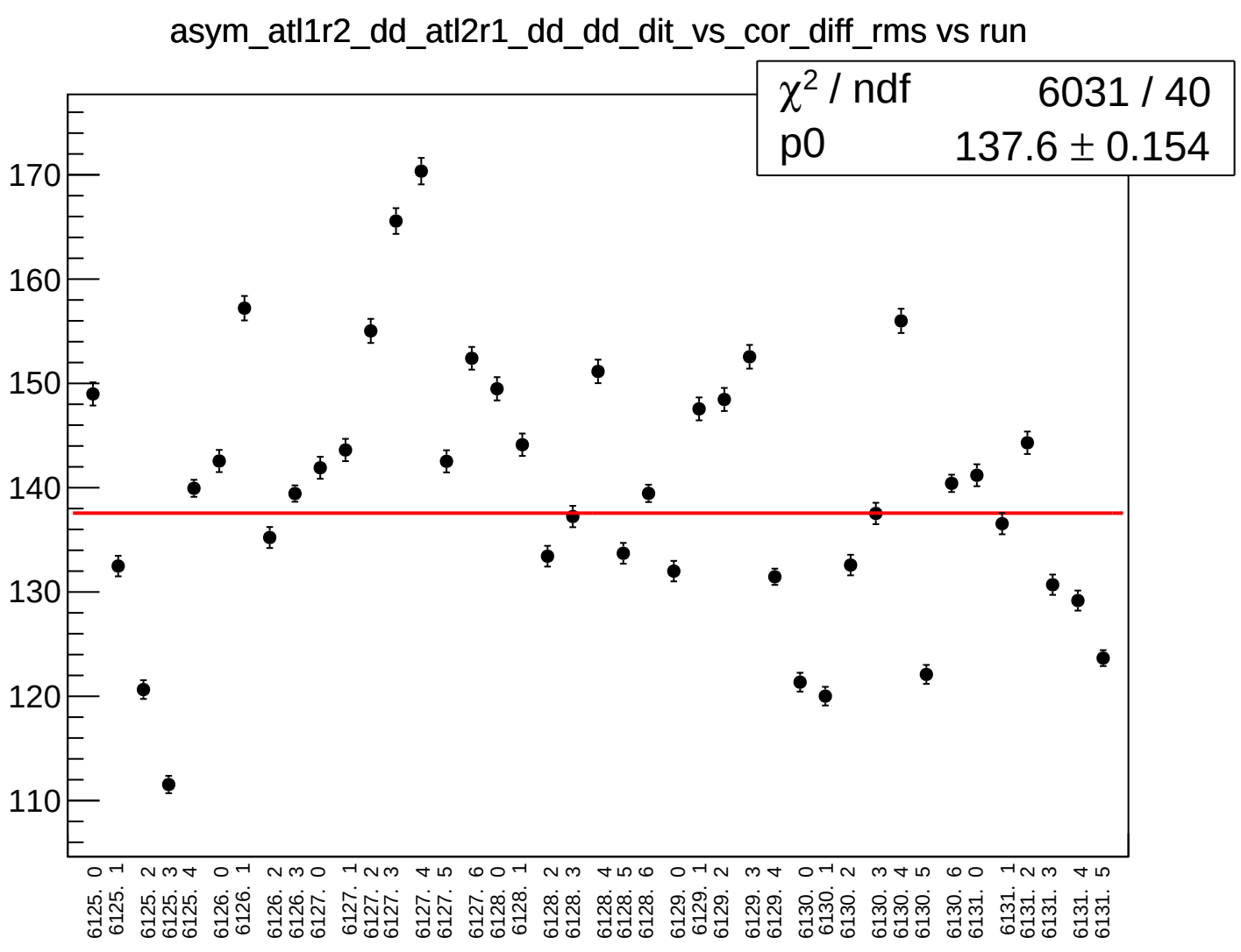

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.564e+05 / 40
p0 1.655e−10 ± 2.236e−13
0.25
0.2
0.15
0.1
0.05
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

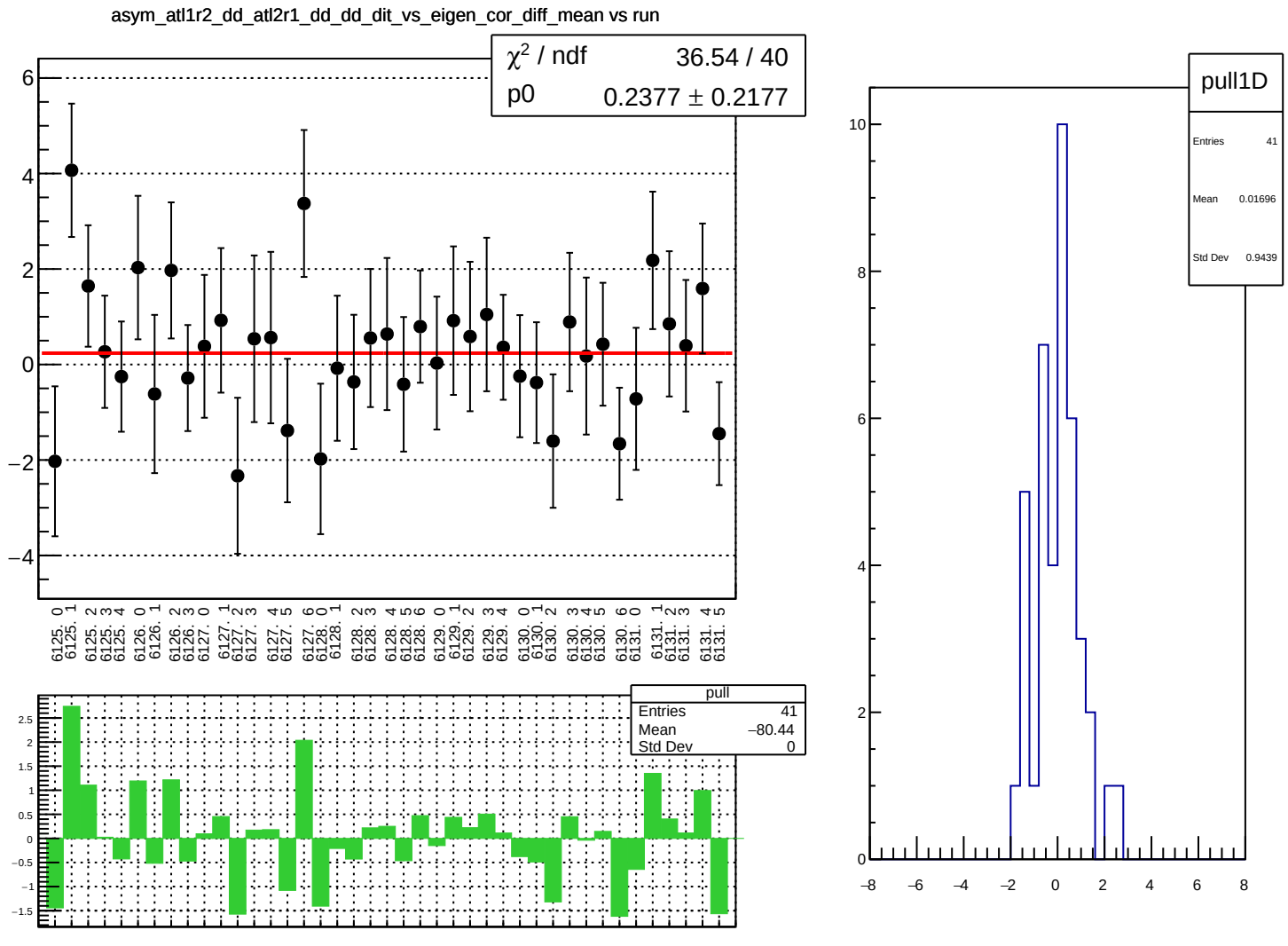
asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run

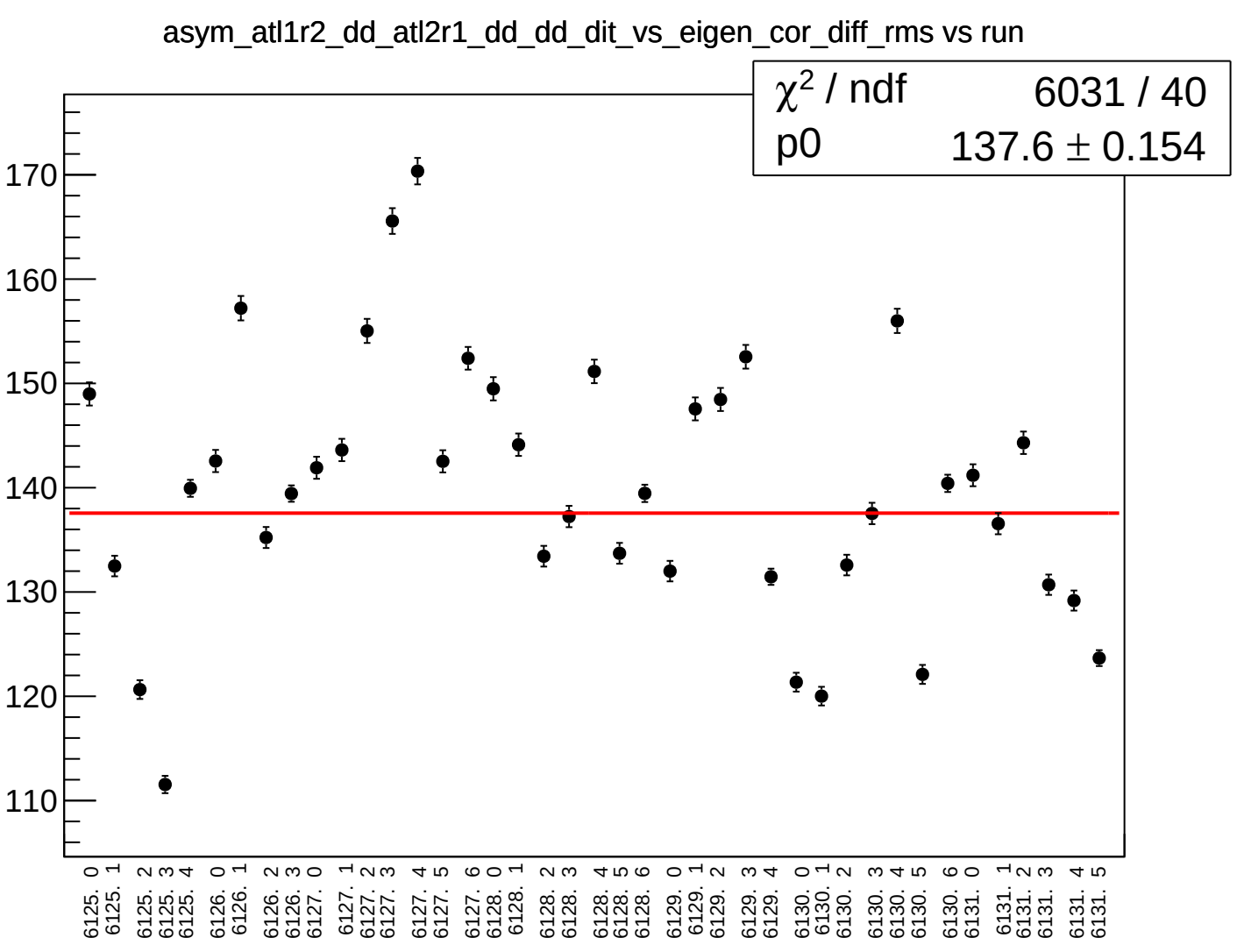


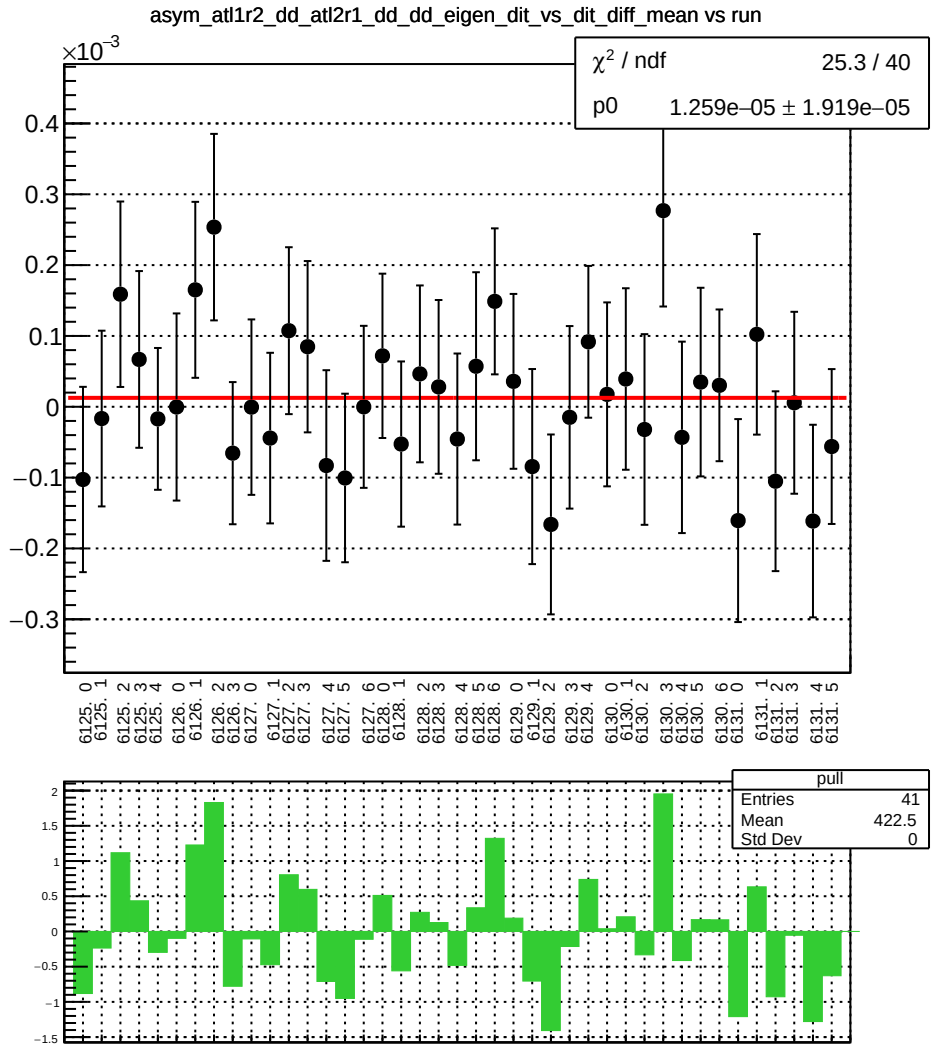


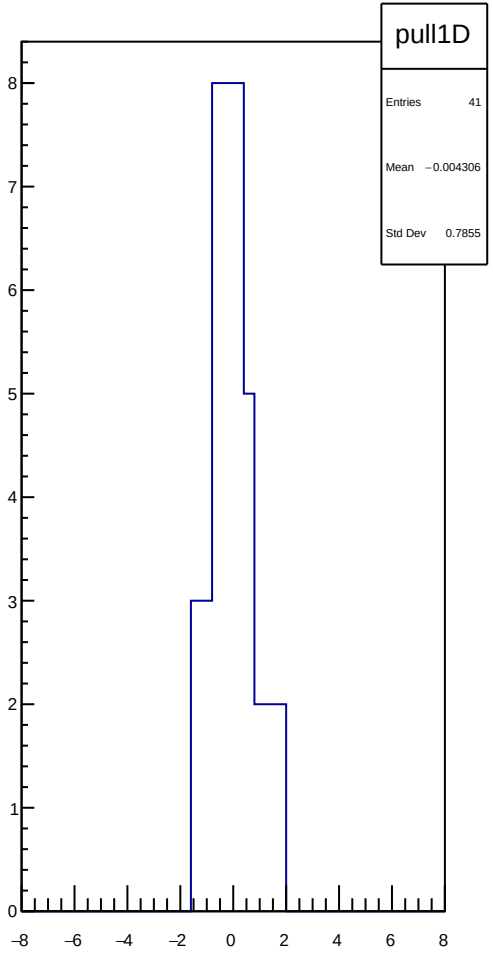


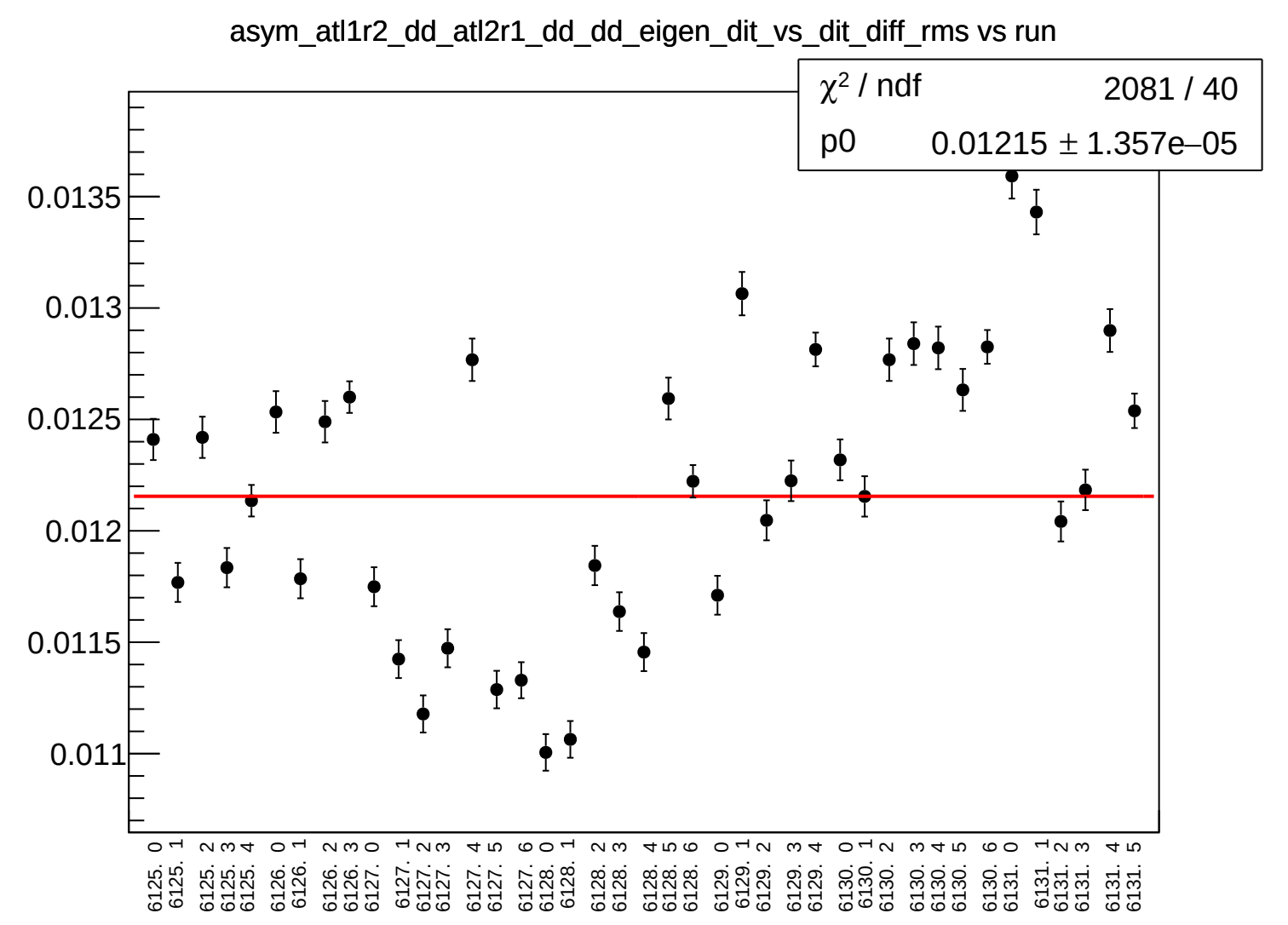

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6031 / 40
p0 137.6 ± 0.154
170
160
150
140
130
120
110
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

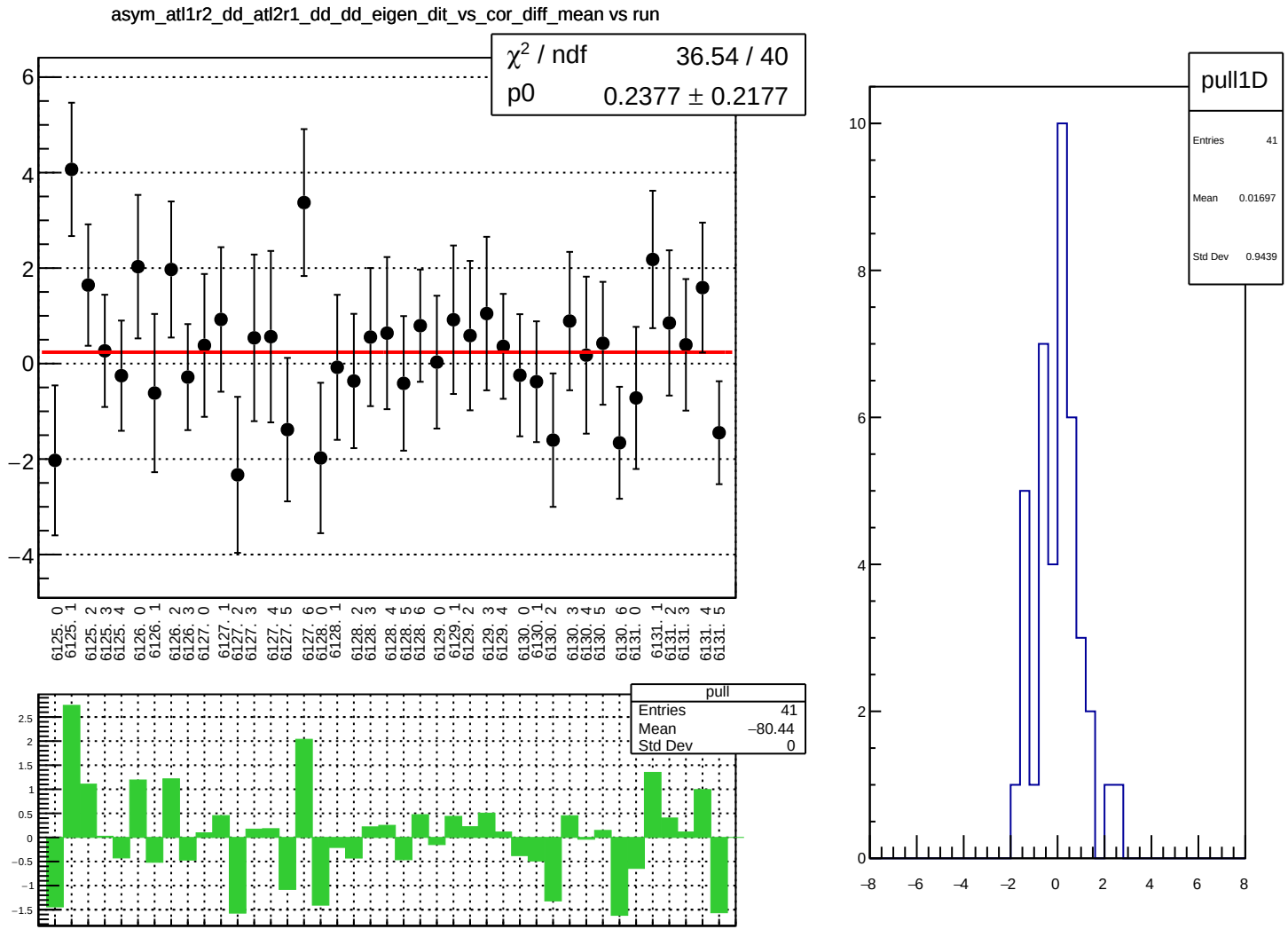

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.54 / 40
p0 0.2377 ± 0.2177
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −80.44
Std Dev 0
pull1D
Entries 41
Mean 0.01696
Std Dev 0.9439

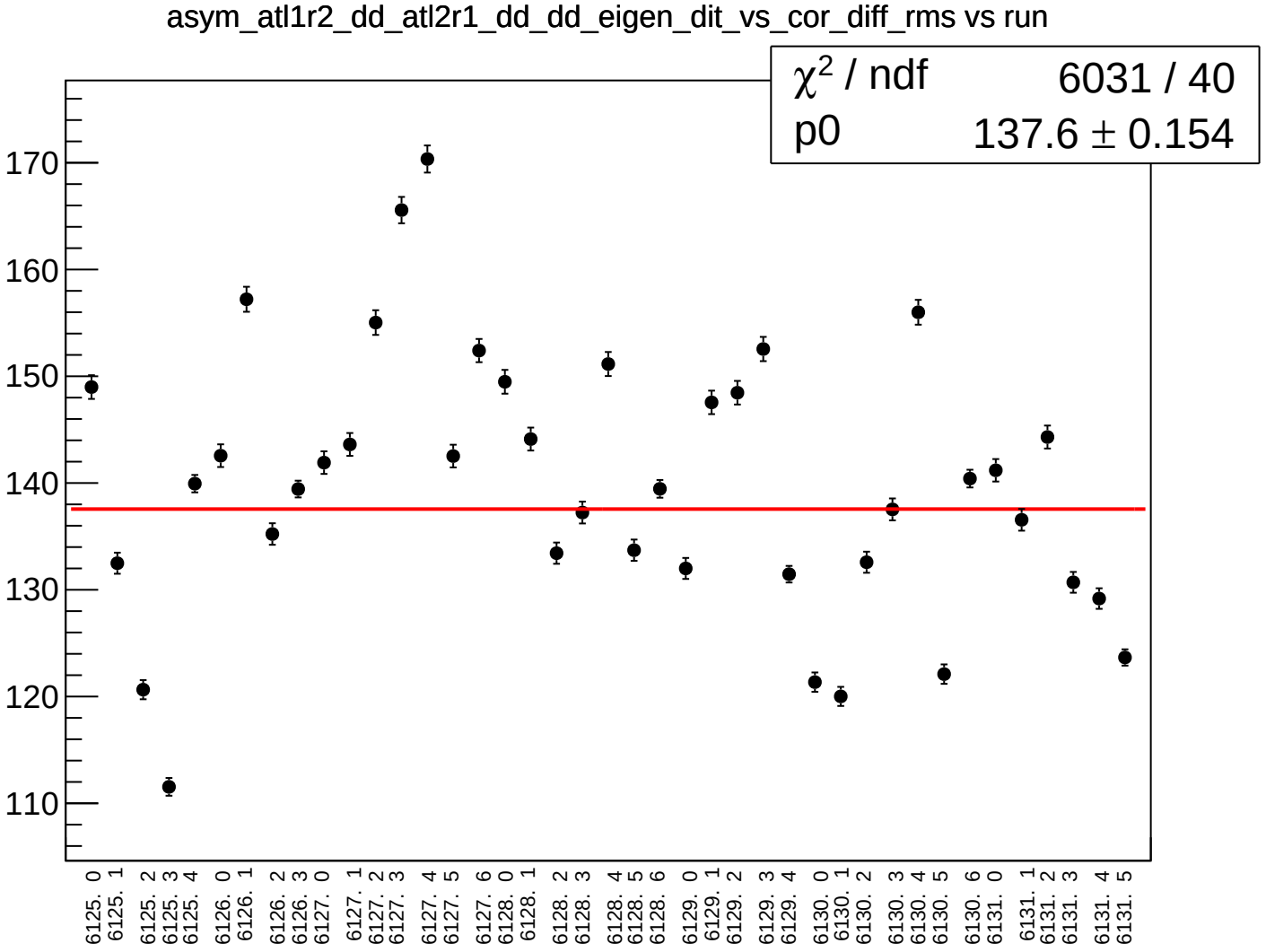

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6031 / 40
p0 137.6 ± 0.154
170
160
150
140
130
120
110
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

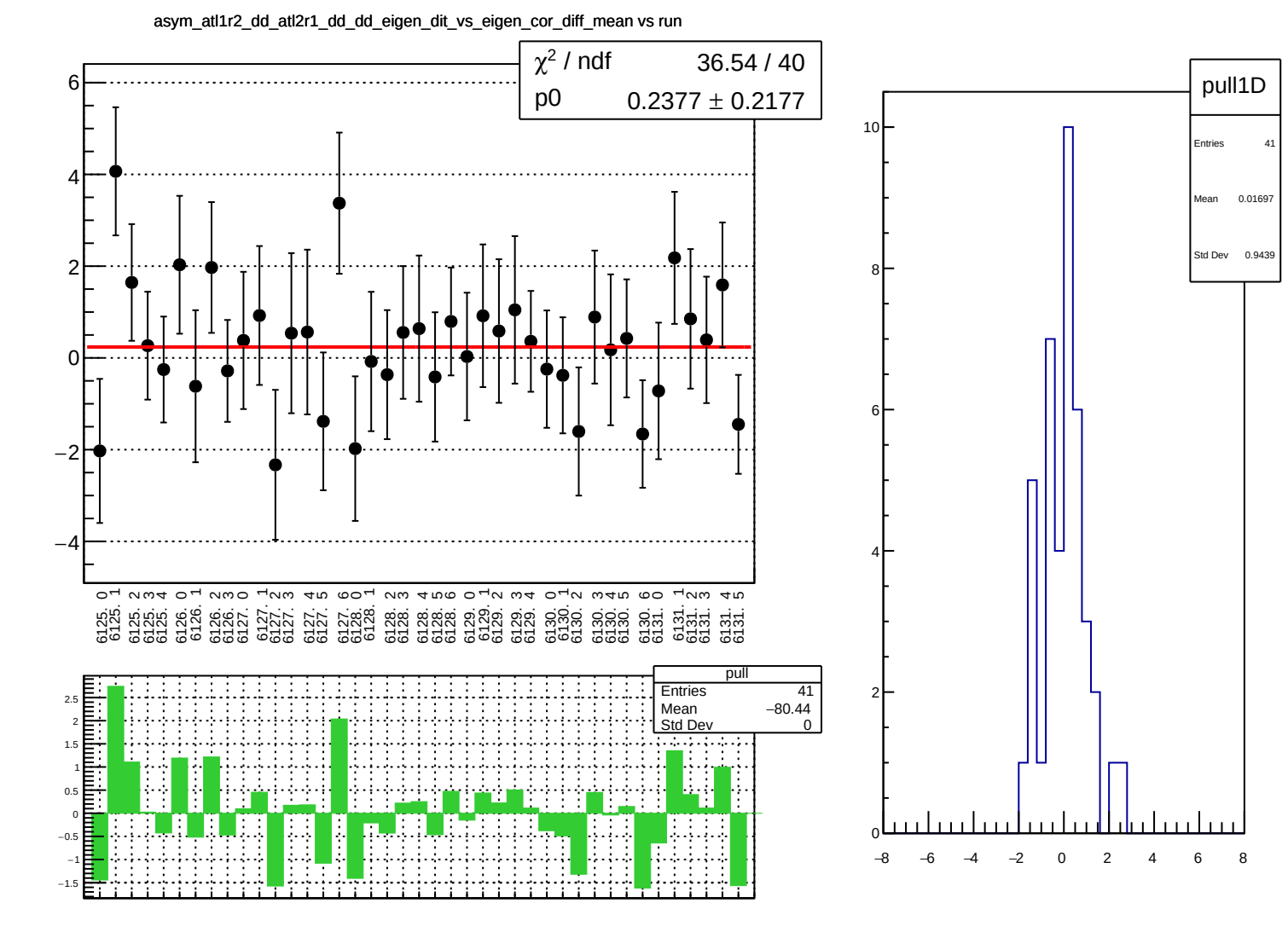

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 25.3 / 40
p0 1.259e−05 ± 1.919e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 422.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

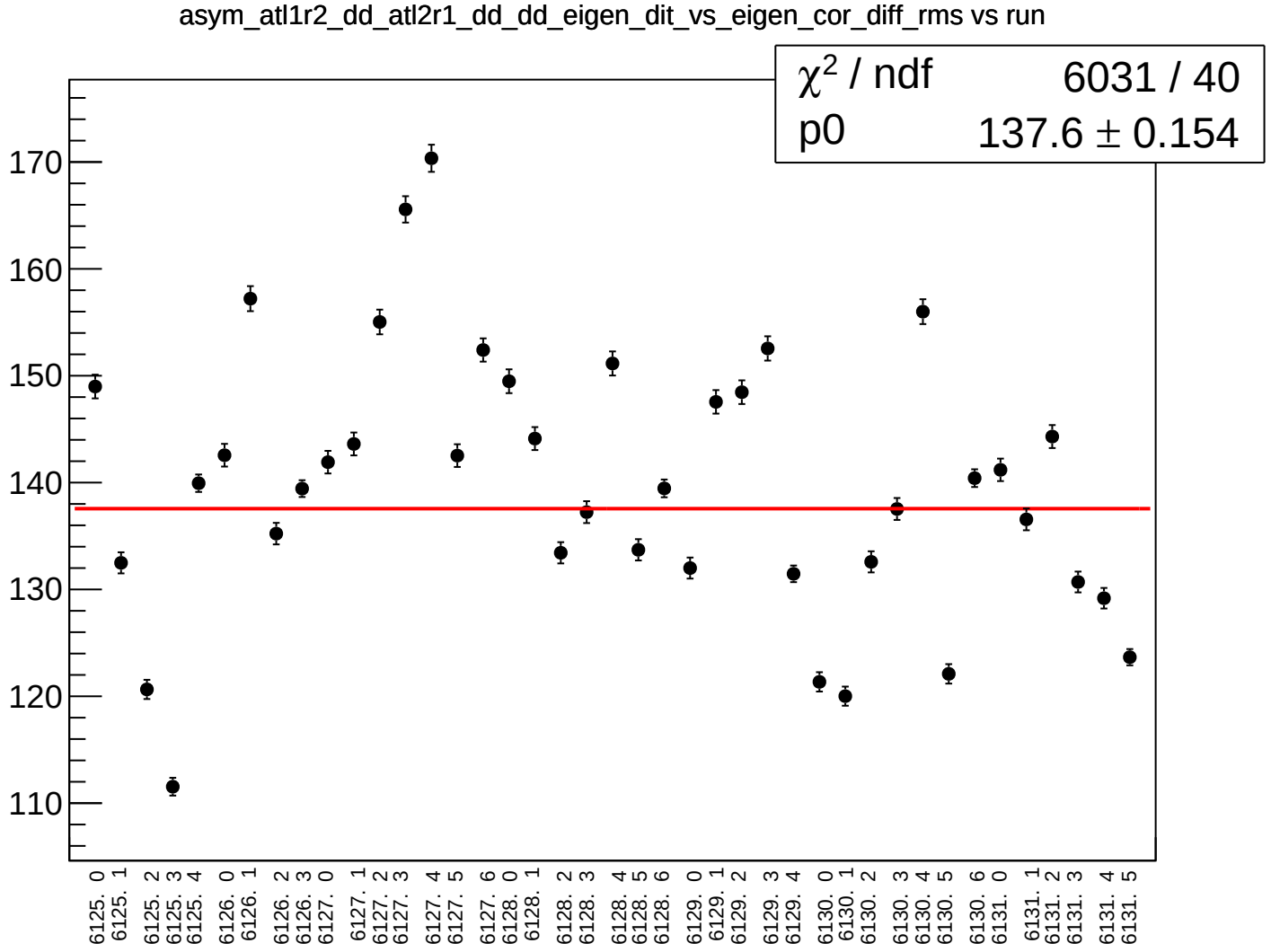

pull1D
Entries 41
Mean −0.004306
Std Dev 0.7855
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

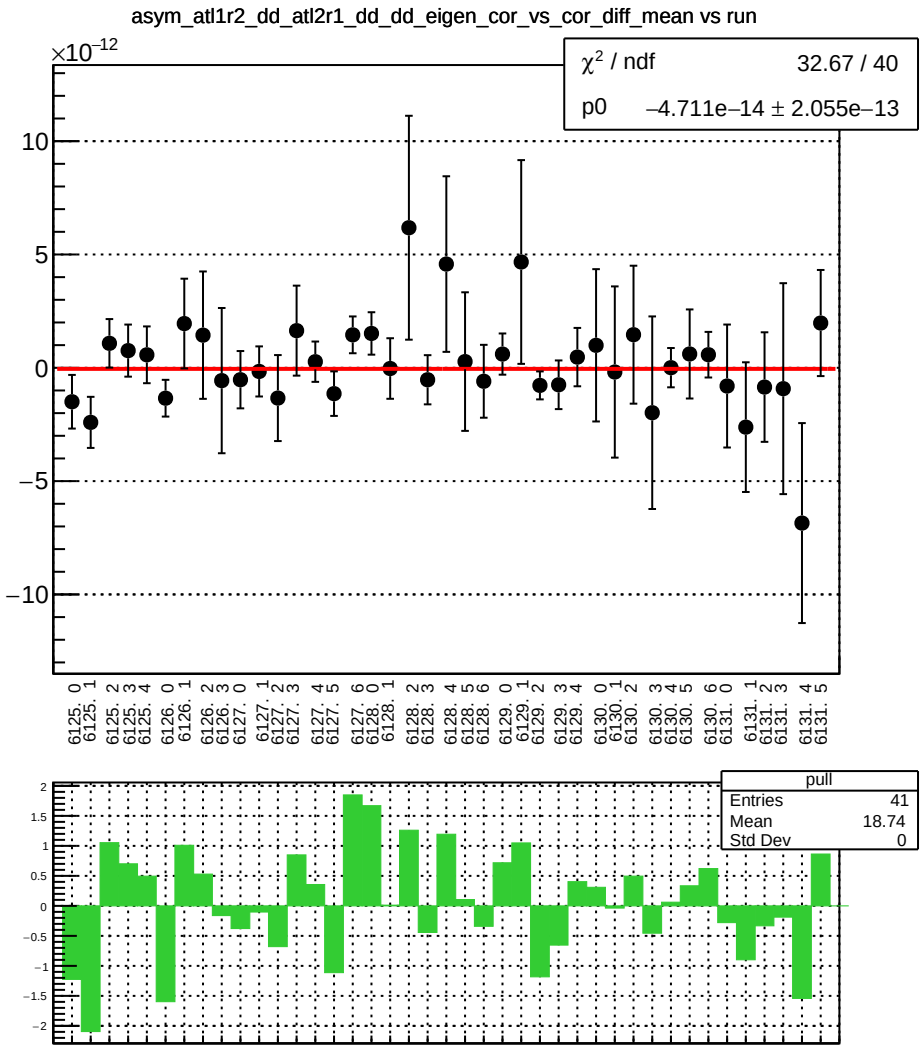

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2081 / 40
p0 0.01215 ± 1.357e−05
0.0135
0.013
0.0125
0.012
0.0115
0.011
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

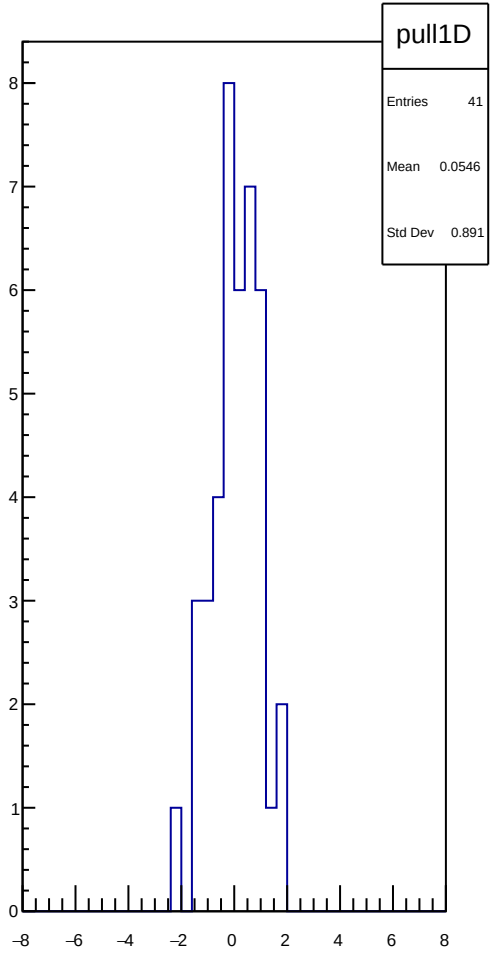

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.54 / 40
p0 0.2377 ± 0.2177
pull
Entries 41
Mean −80.44
Std Dev 0
pull1D
Entries 41
Mean 0.01697
Std Dev 0.9439

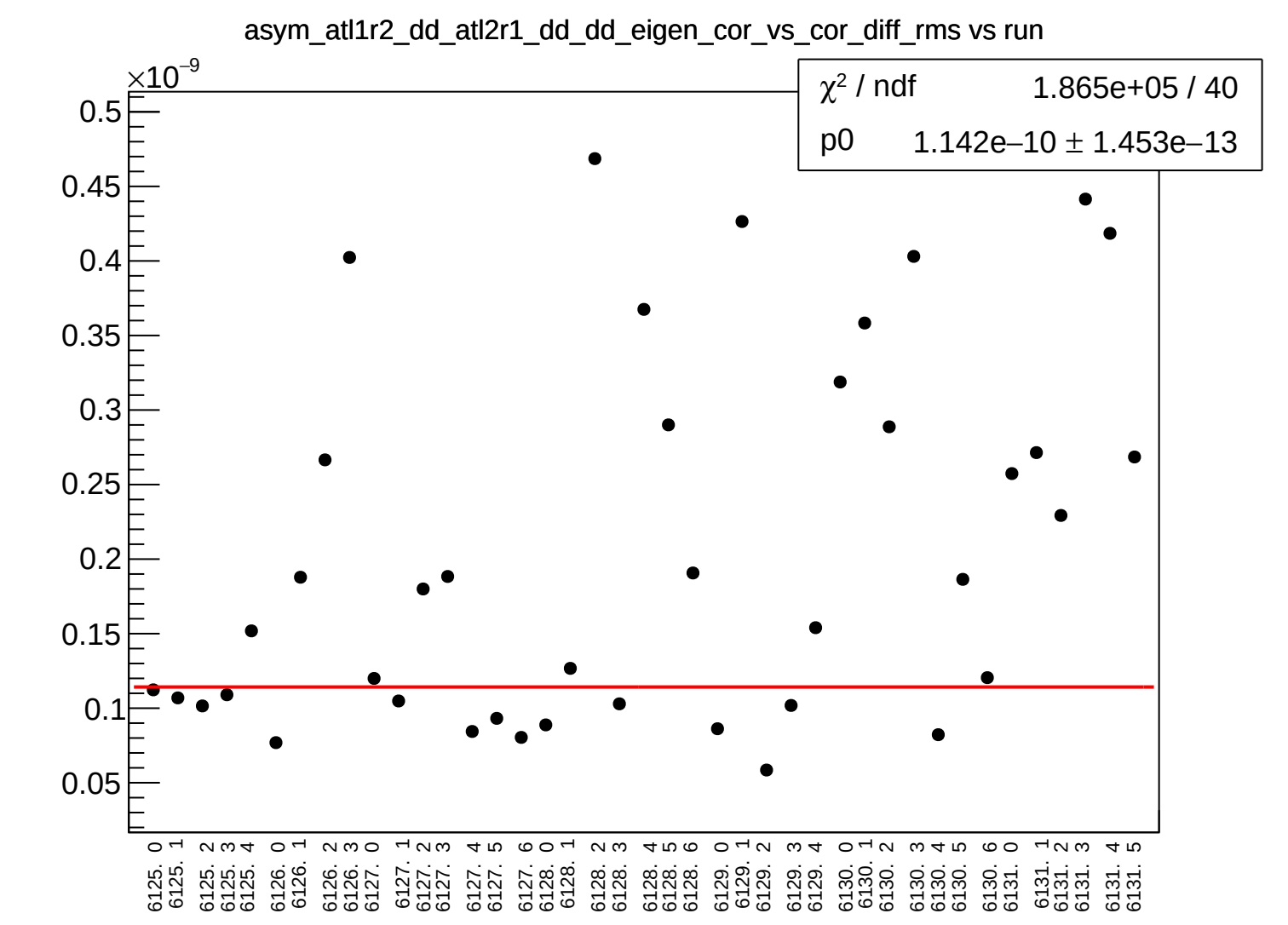

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6031 / 40
p0 137.6 ± 0.154
170
160
150
140
130
120
110
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

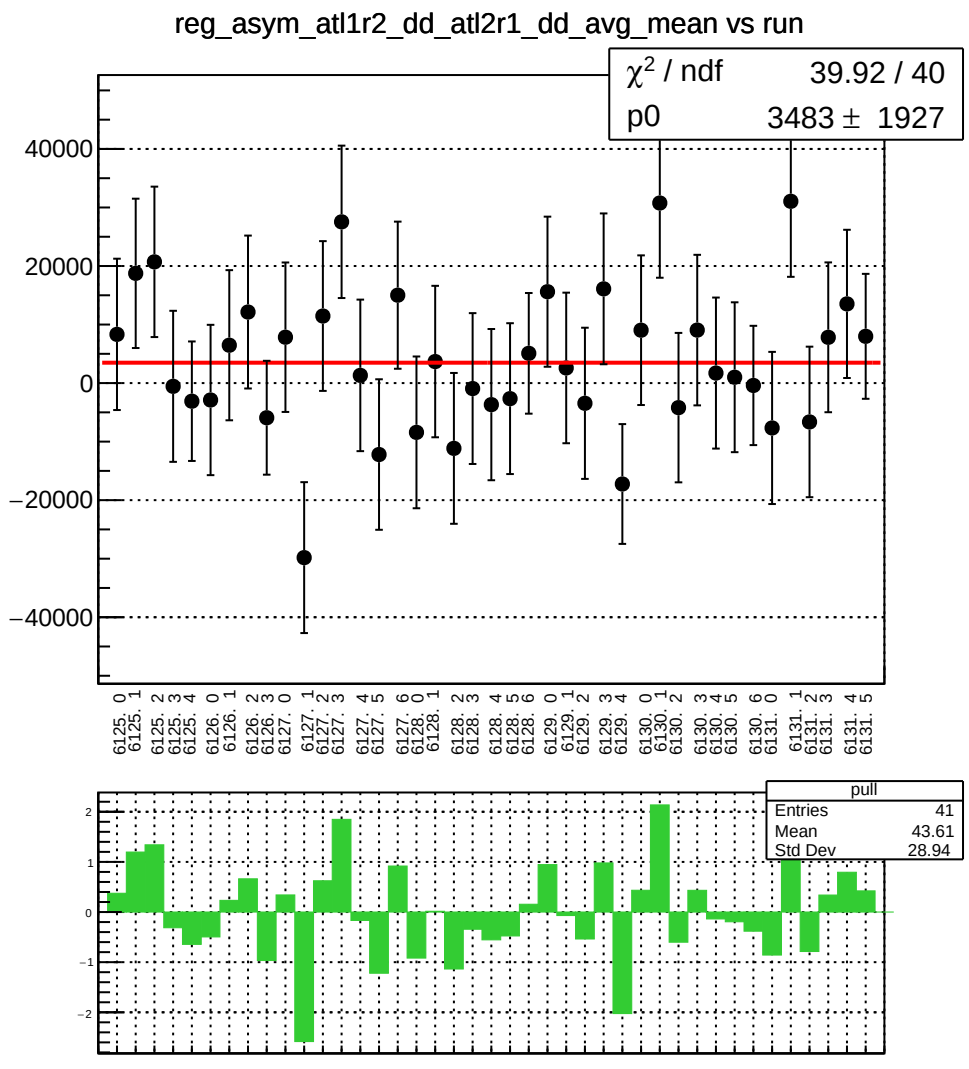

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.54 / 40
p0 0.2377 ± 0.2177
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −80.44
Std Dev 0
pull1D
Entries 41
Mean 0.01697
Std Dev 0.9439

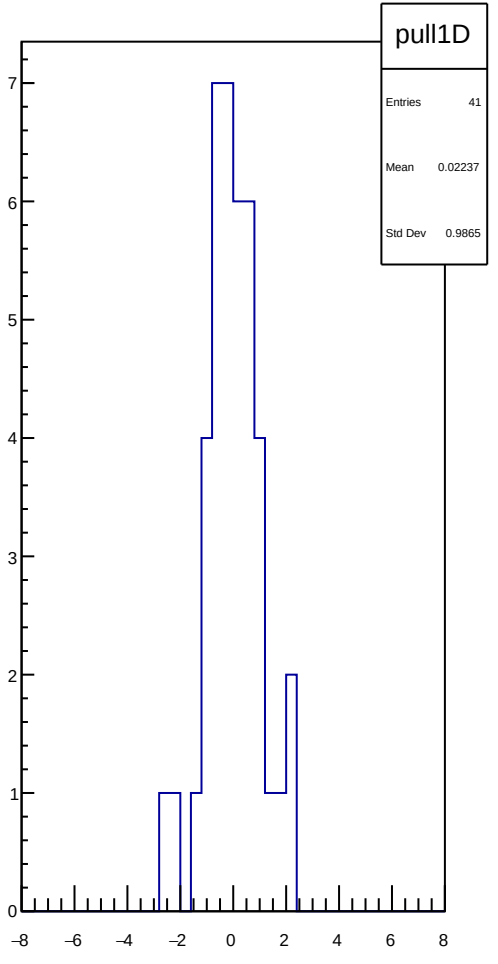

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6031 / 40
p0 137.6 ± 0.154
170
160
150
140
130
120
110
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

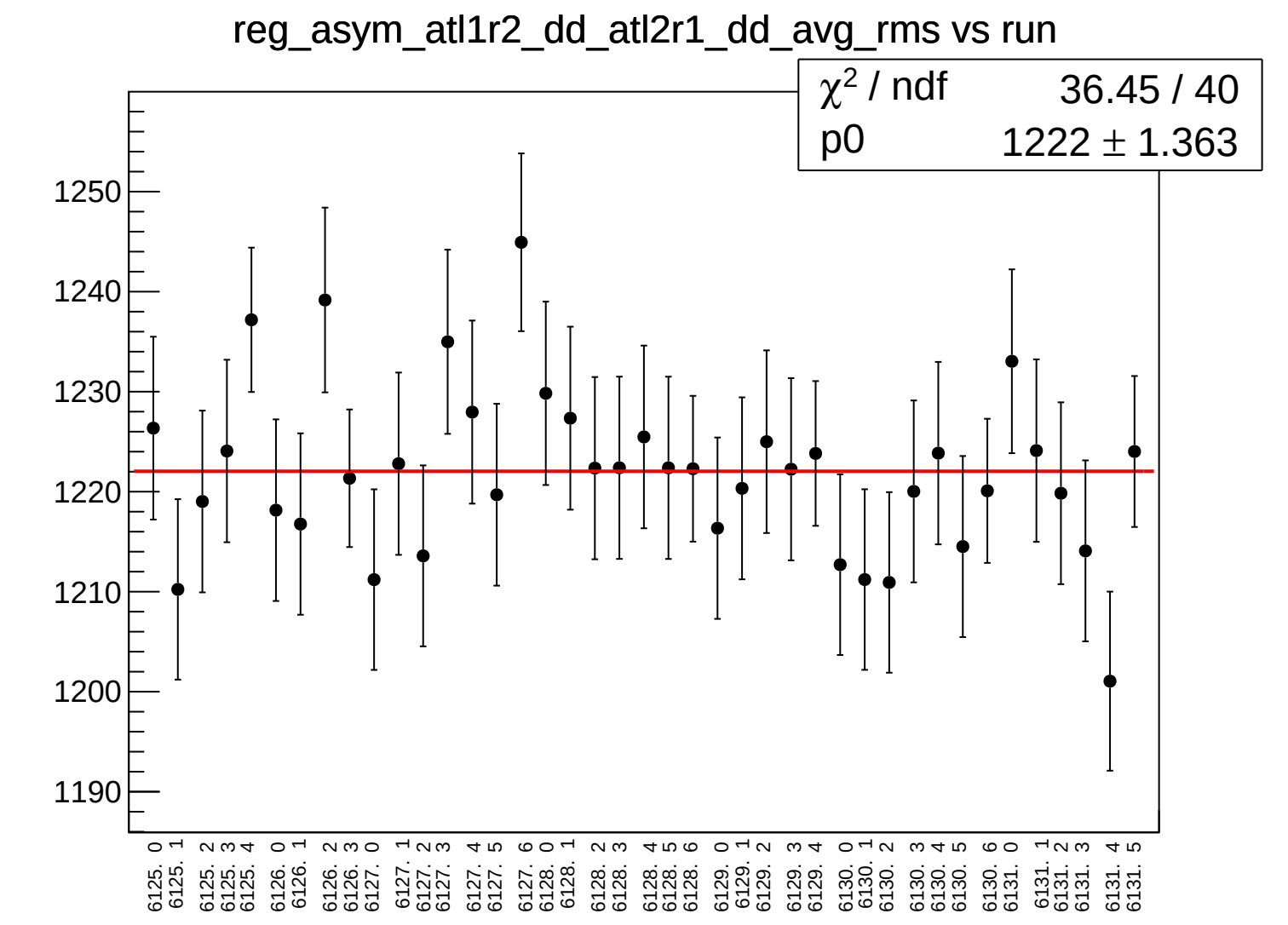

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 32.67 / 40
p0 −4.711e−14 ± 2.055e−13
pull
Entries 41
Mean 18.74
Std Dev 0

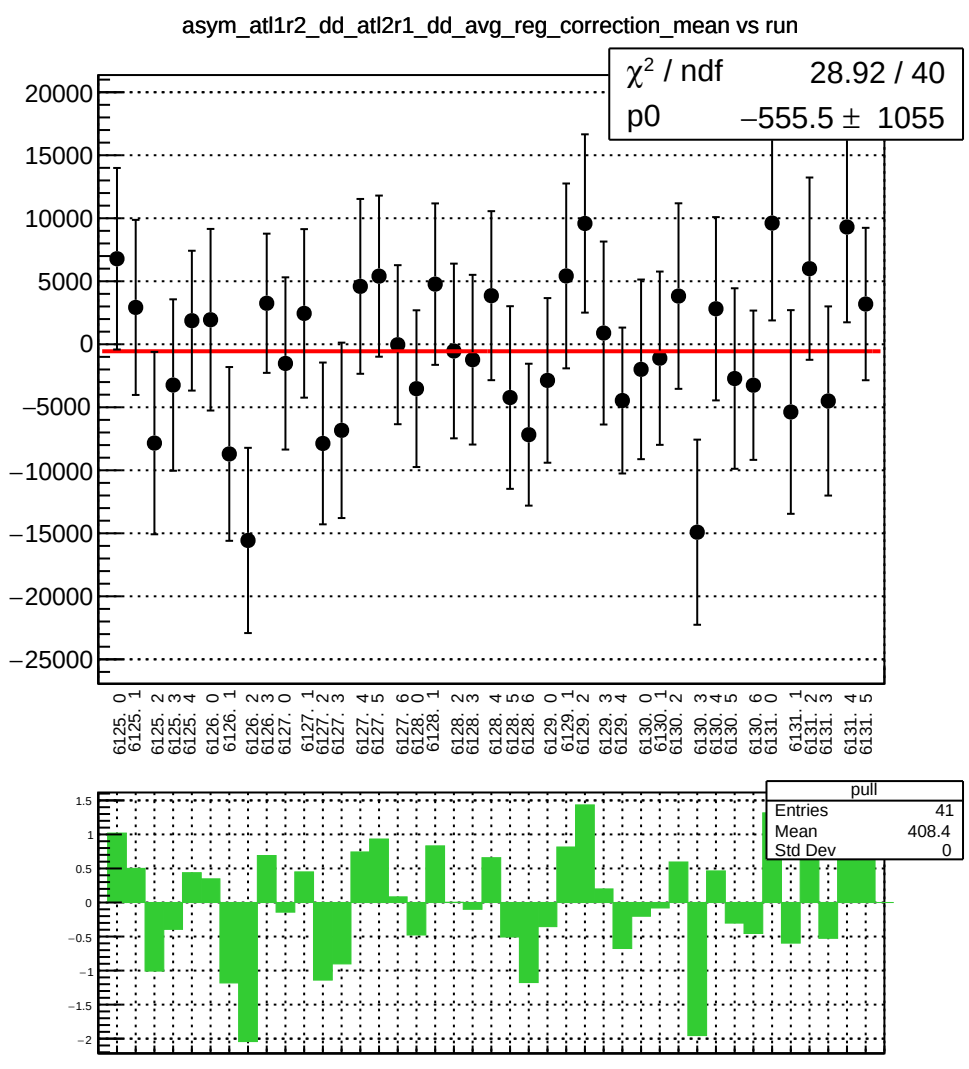

pull1D
Entries 41
Mean 0.0546
Std Dev 0.891

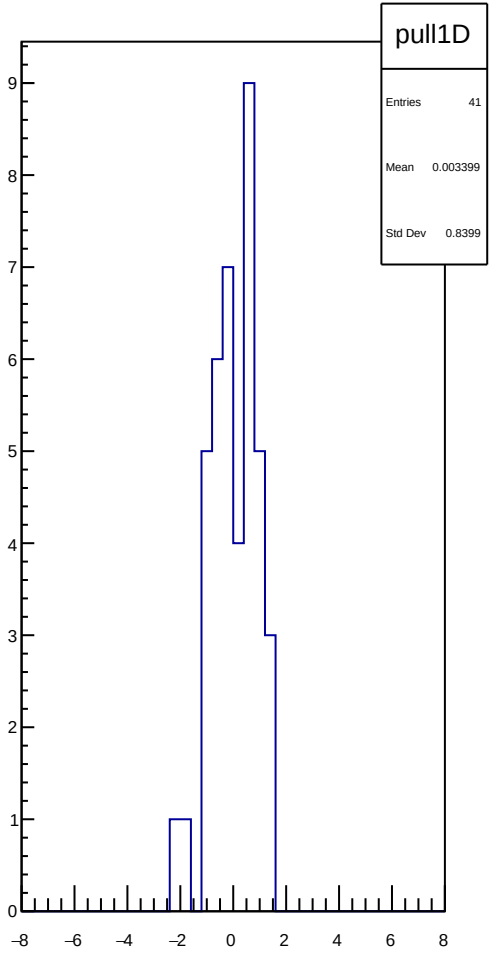

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.865e+05 / 40
p0 1.142e−10 ± 1.453e−13
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

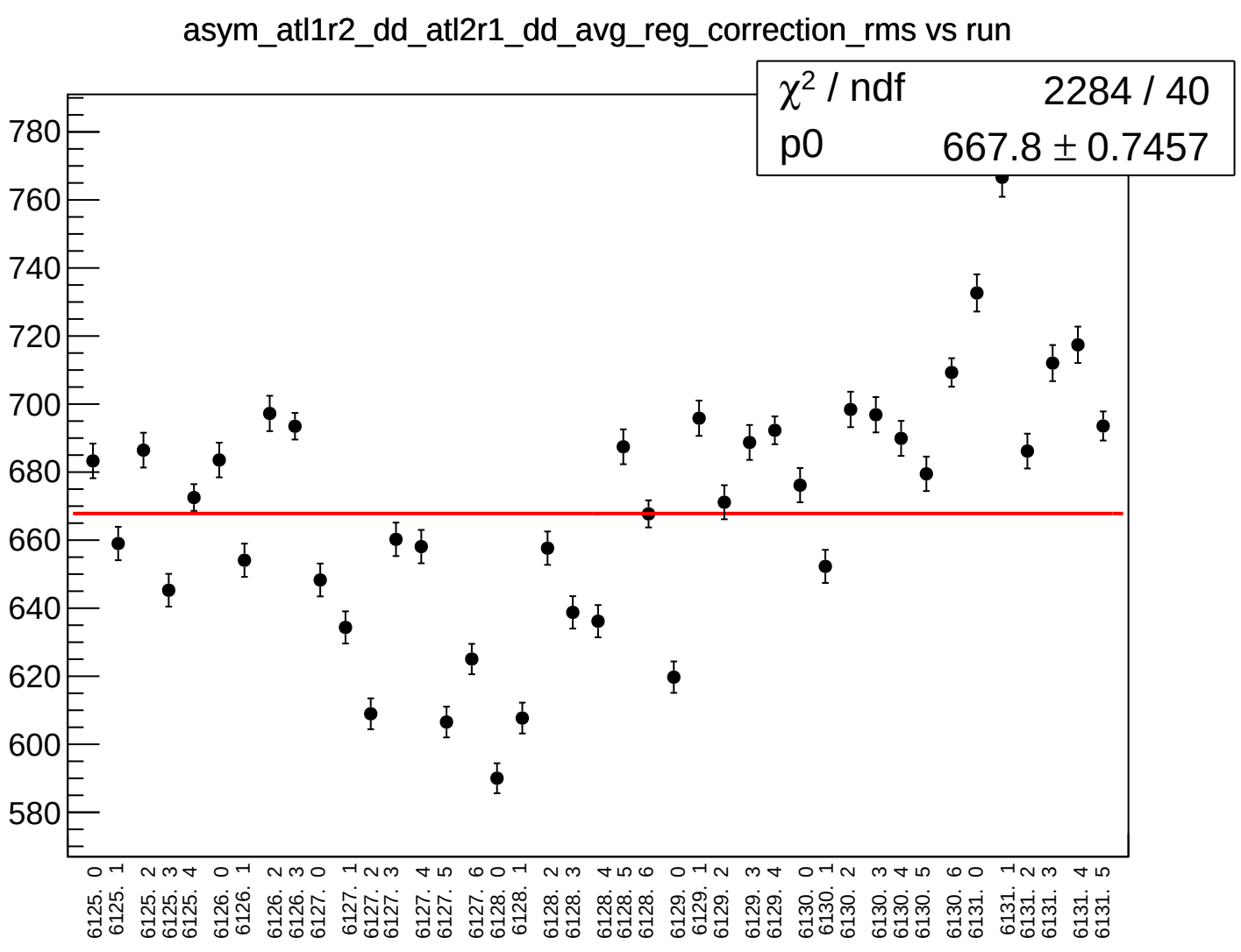

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 39.92 / 40
p0 3483 ± 1927
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 43.61
Std Dev 28.94
2
1
0
−1
−2

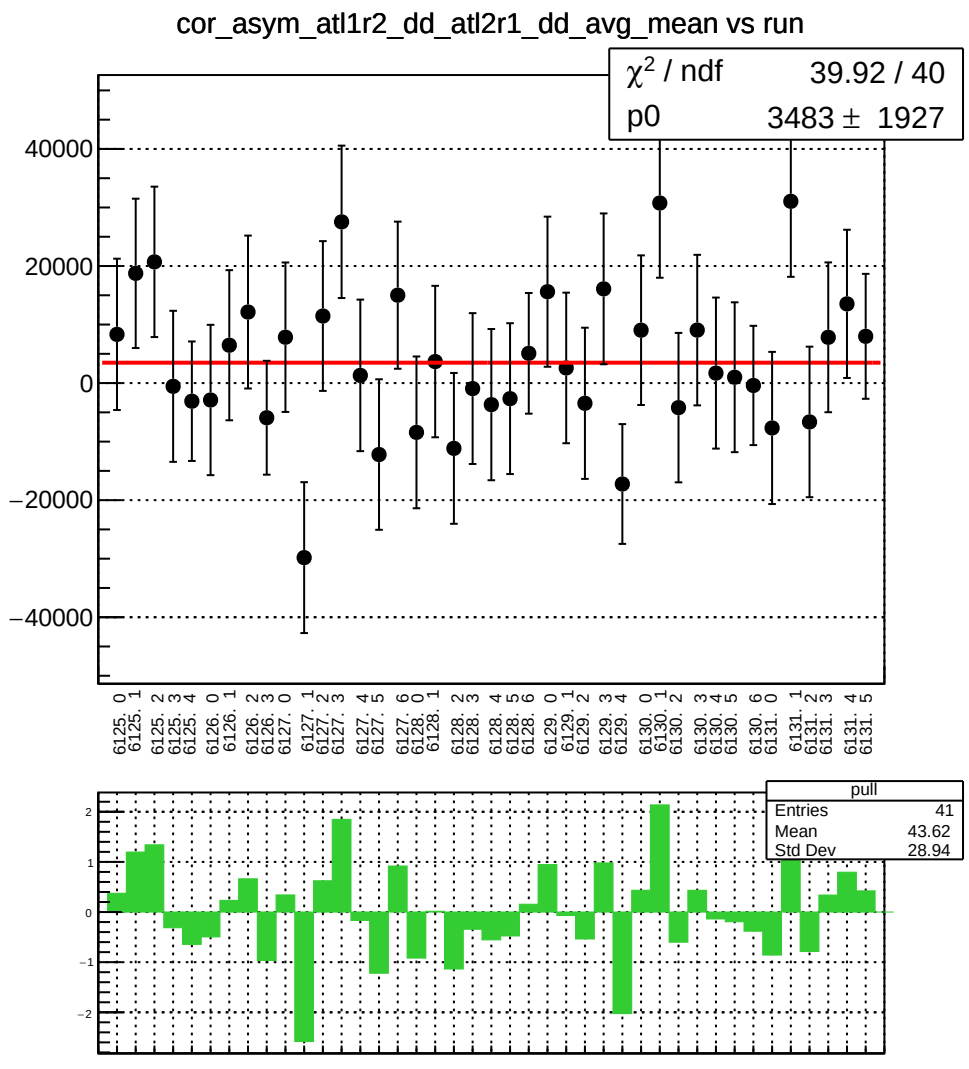

pull1D
Entries 41
Mean 0.02237
Std Dev 0.9865
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

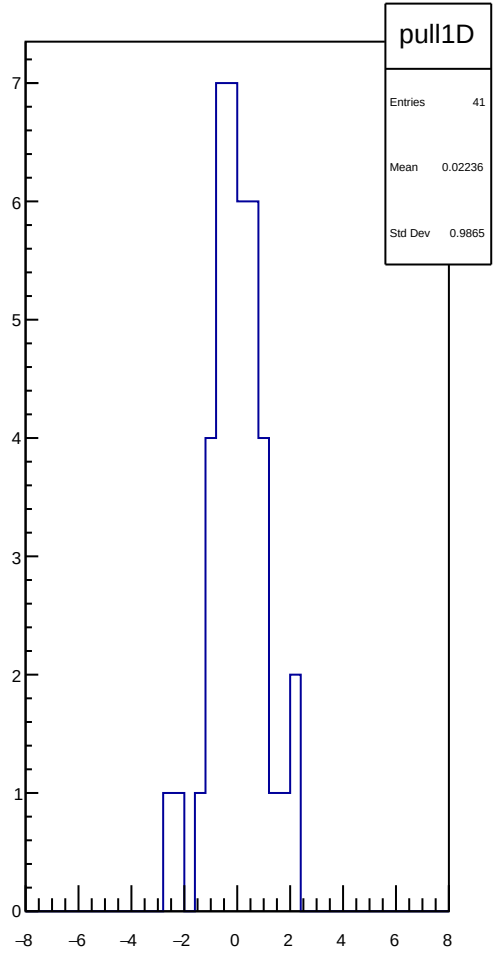

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 36.45 / 40
p0 1222 ± 1.363
1250
1240
1230
1220
1210
1200
1190
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

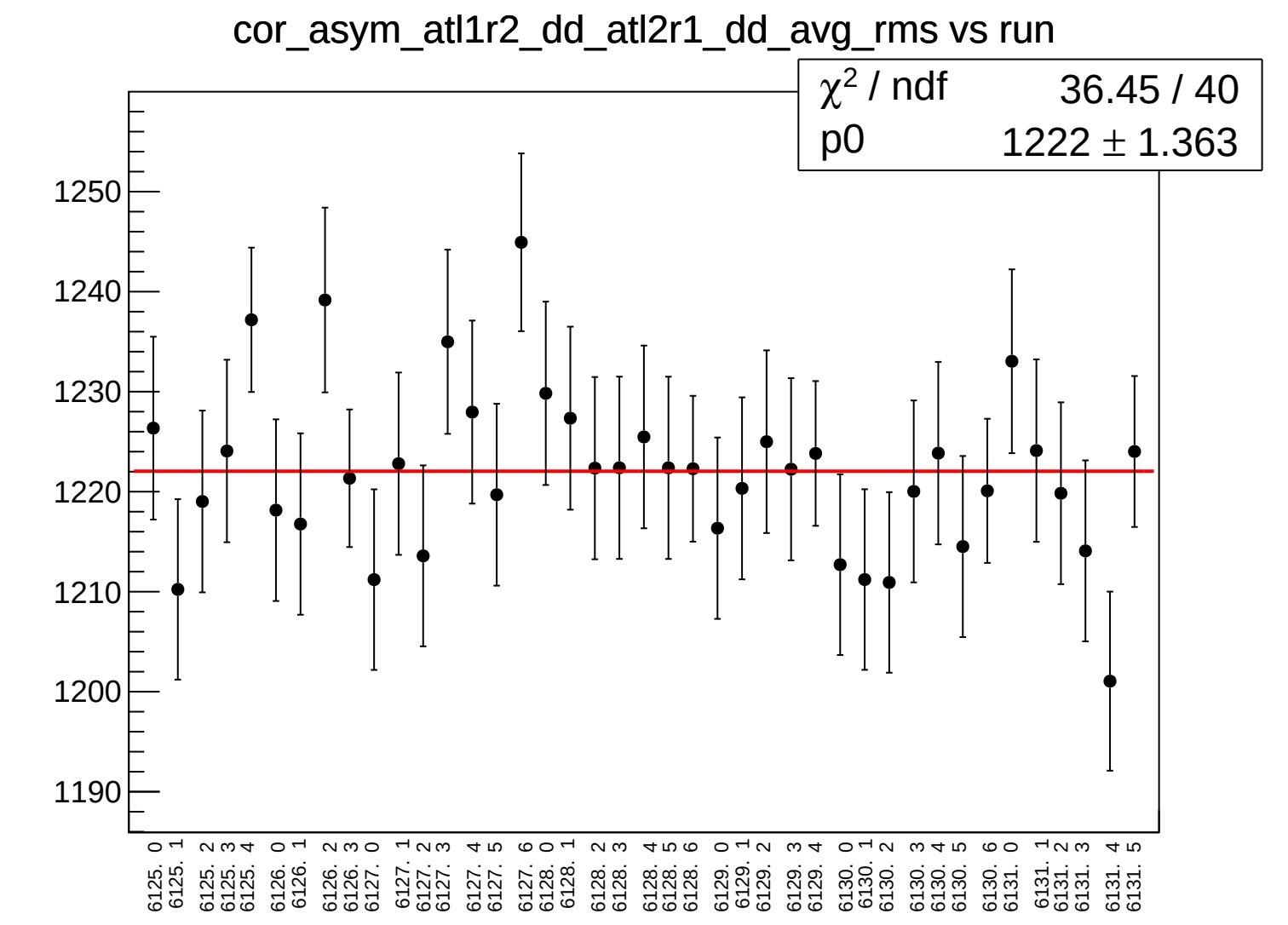

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 28.92 / 40
p0 −555.5 ± 1055
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 408.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

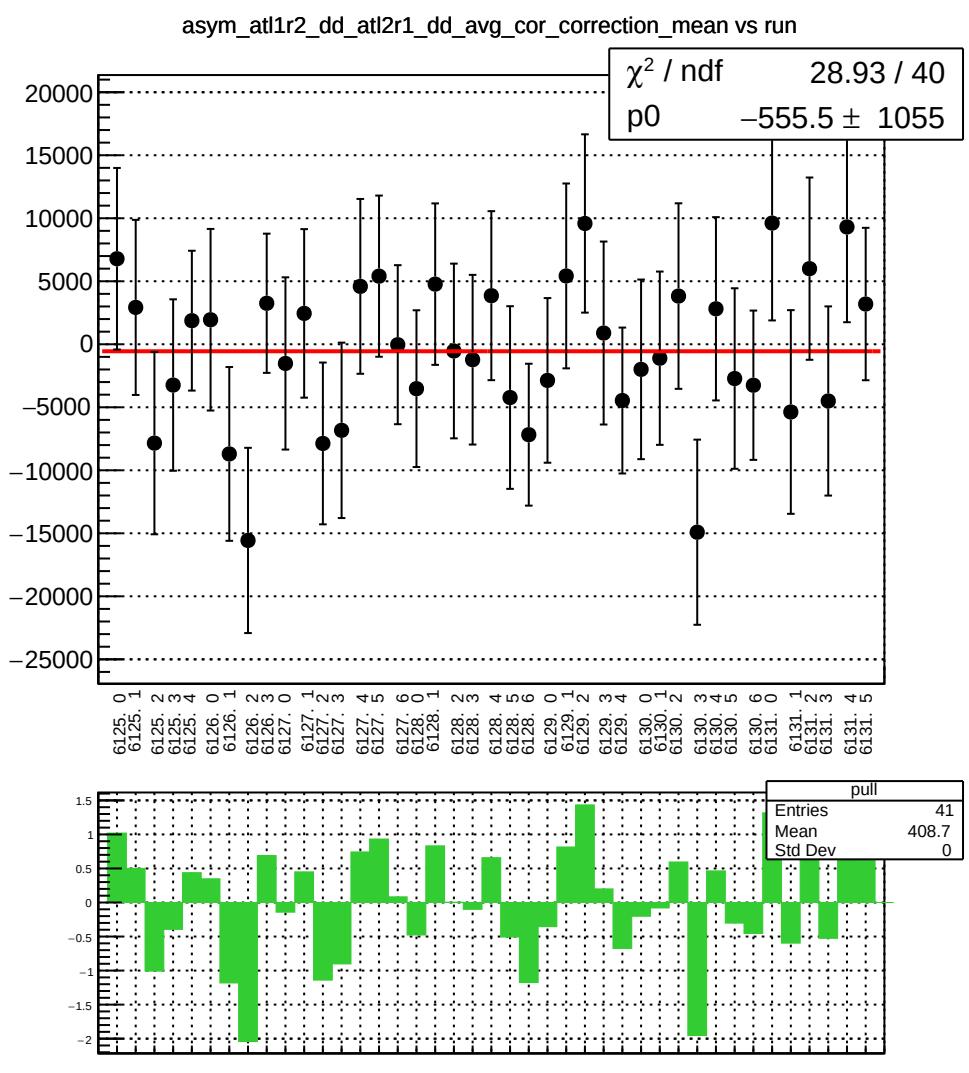

pull1D
Entries 41
Mean 0.003399
Std Dev 0.8399
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

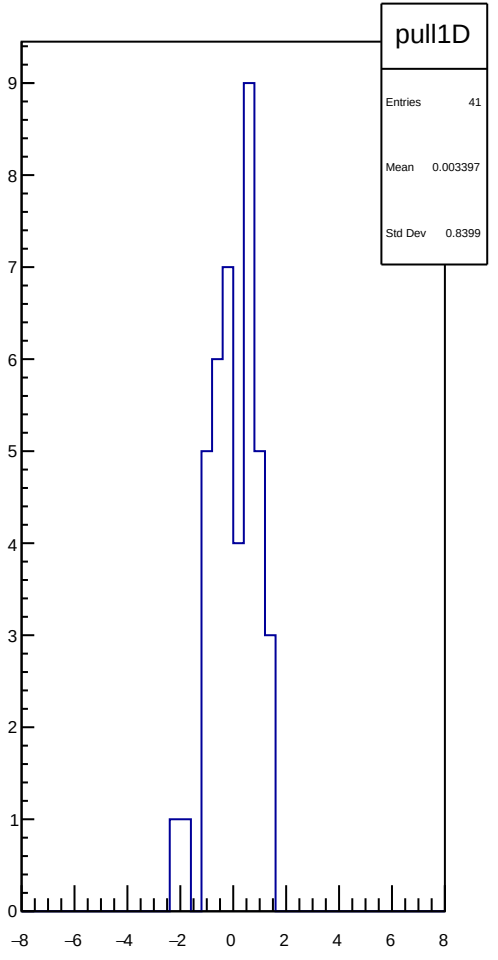

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 2284 / 40
p0 667.8 ± 0.7457
780
760
740
720
700
680
660
640
620
600
580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

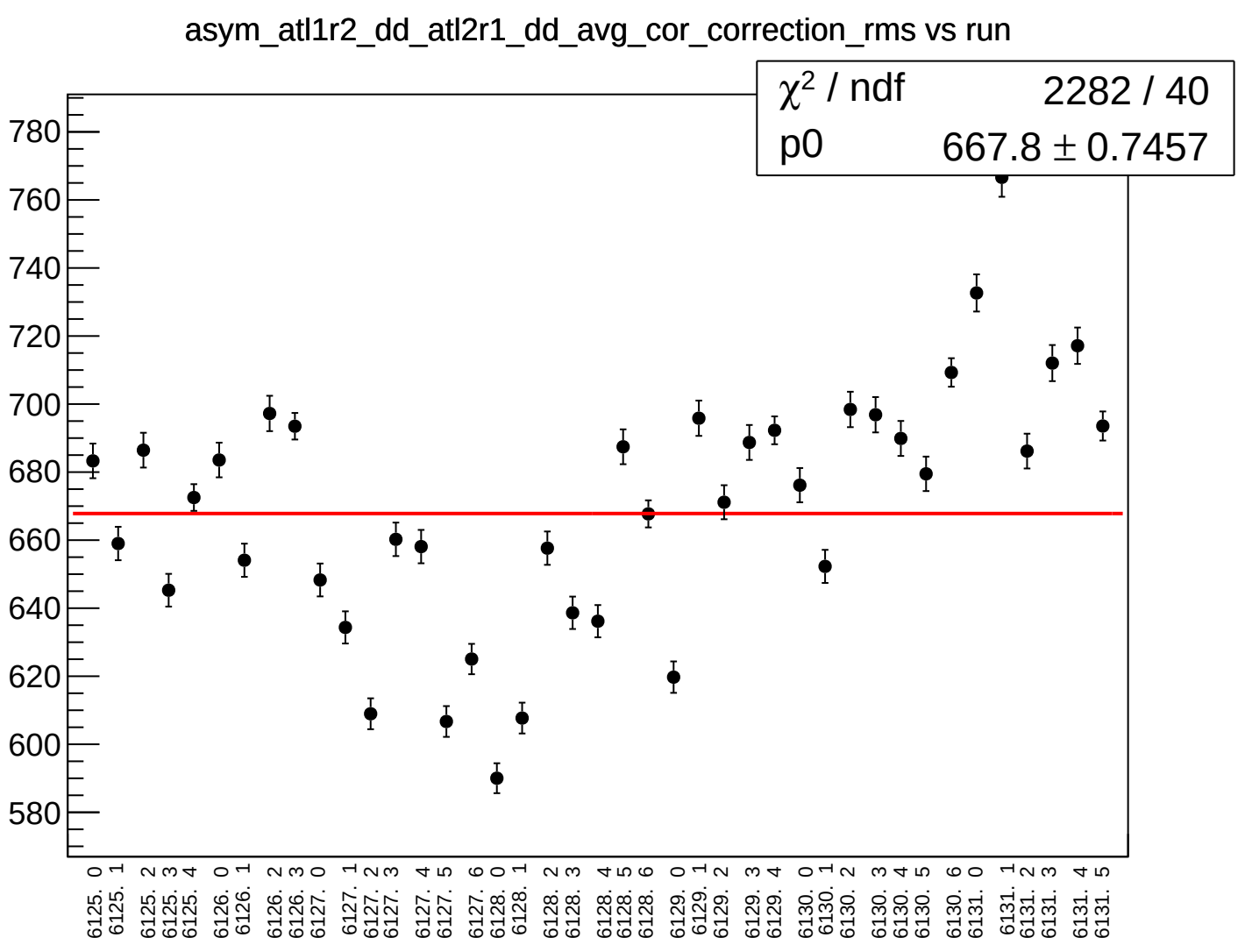

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 39.92 / 40
p0 3483 ± 1927
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 43.62
Std Dev 28.94
2
1
0
−1
−2

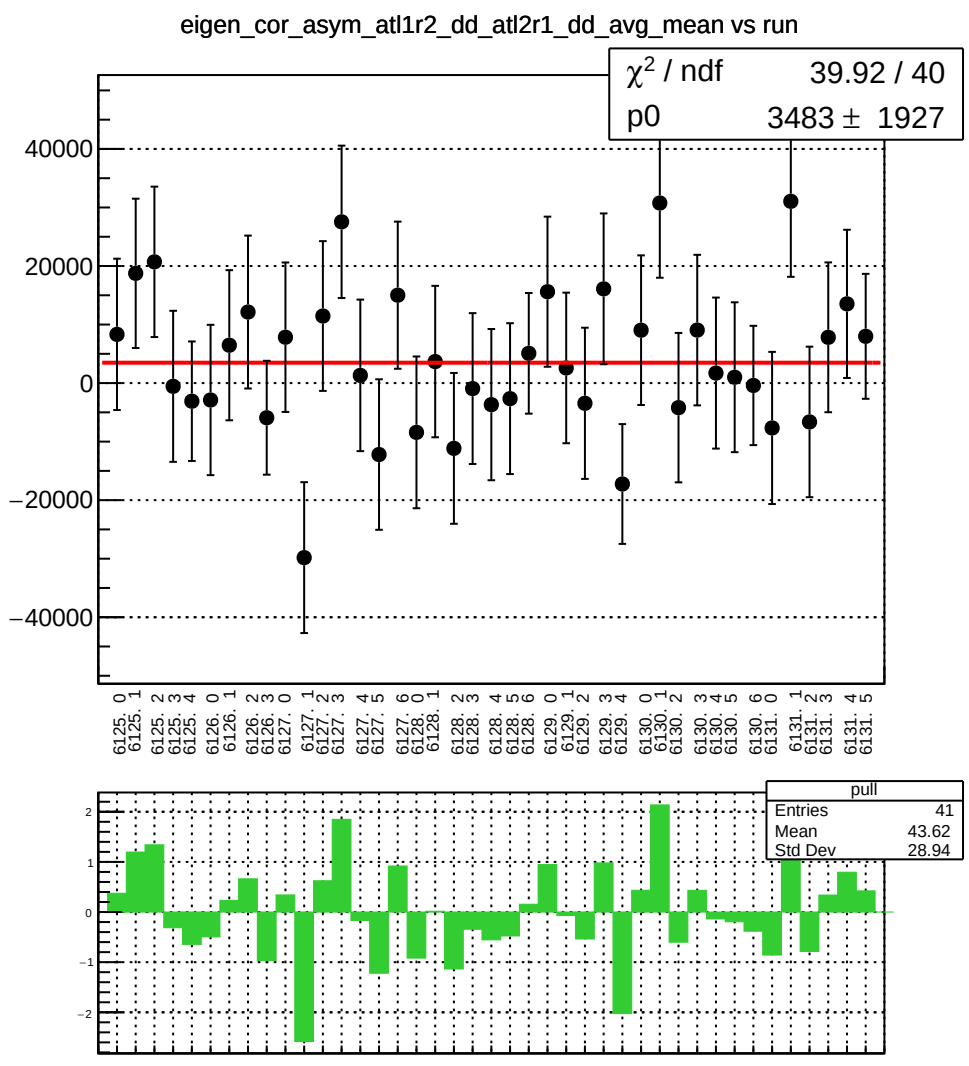

pull1D
Entries 41
Mean 0.02236
Std Dev 0.9865
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

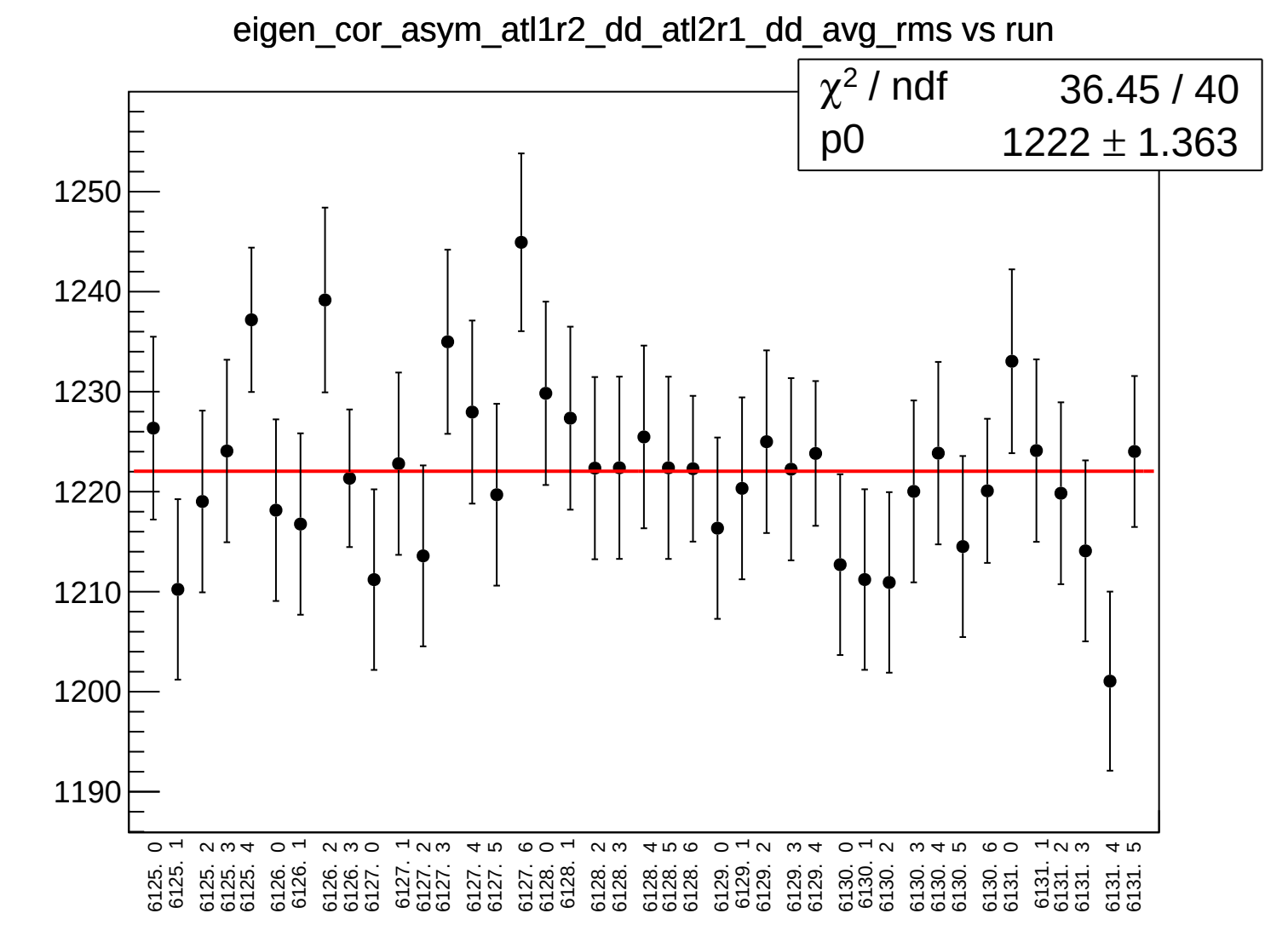

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 36.45 / 40
p0 1222 ± 1.363
1250
1240
1230
1220
1210
1200
1190
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

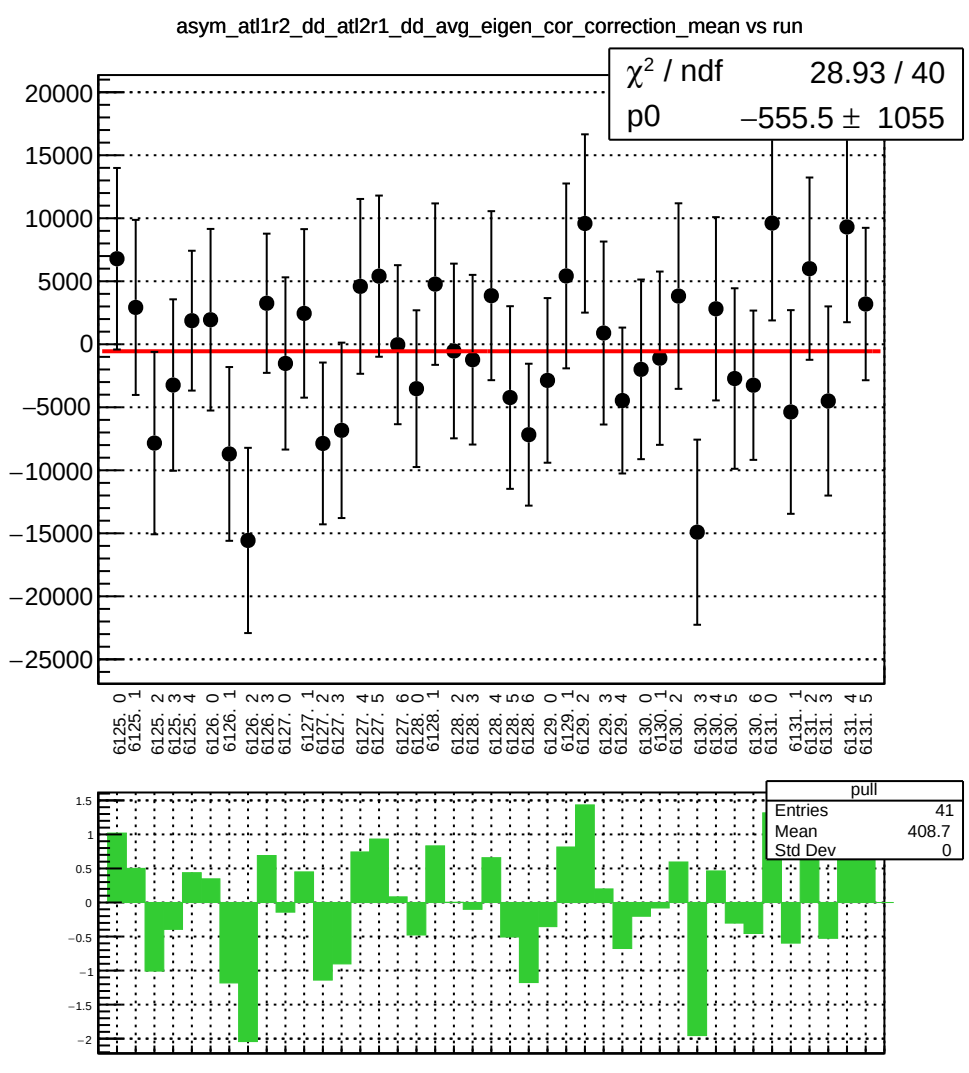

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 28.93 / 40
p0 −555.5 ± 1055
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 408.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

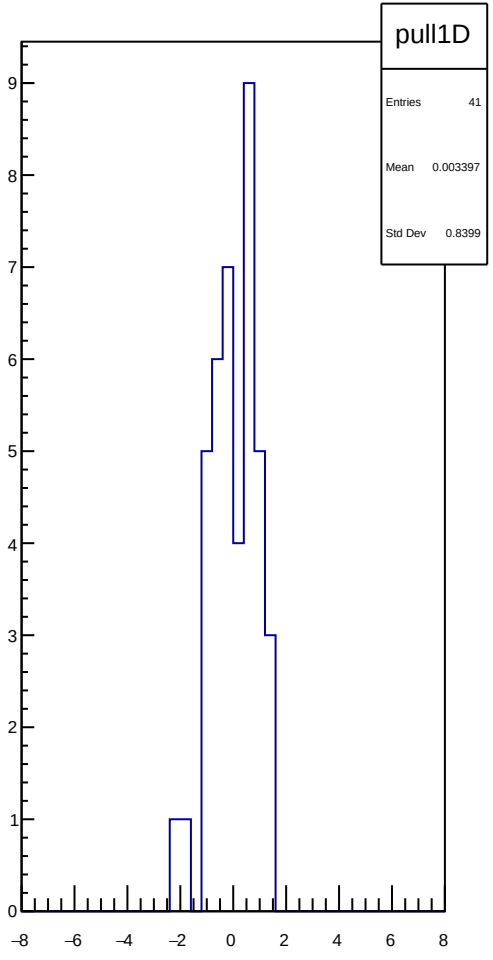

pull1D
Entries 41
Mean 0.003397
Std Dev 0.8399
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

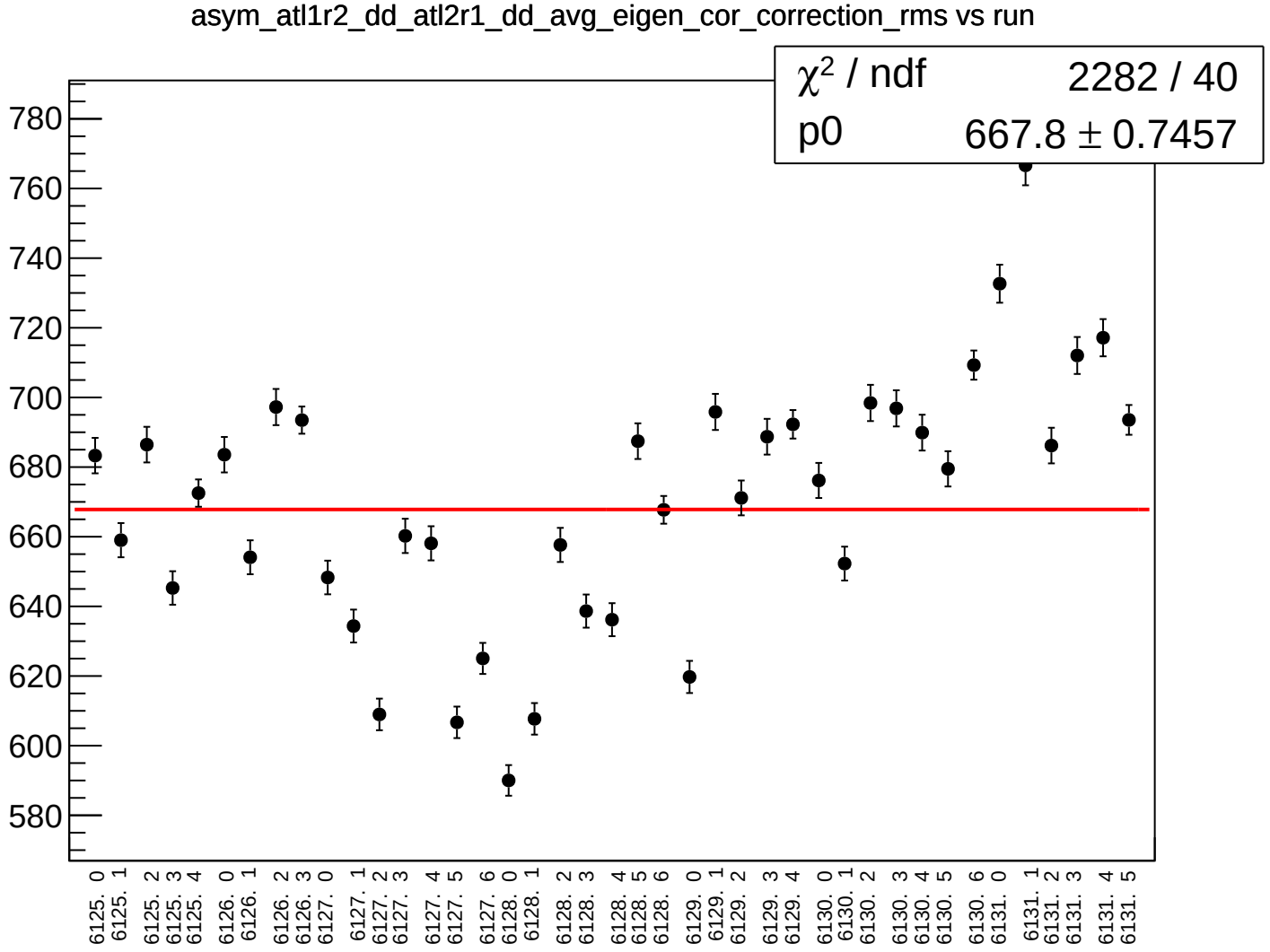

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 2282 / 40
p0 667.8 ± 0.7457
780
760
740
720
700
680
660
640
620
600
580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

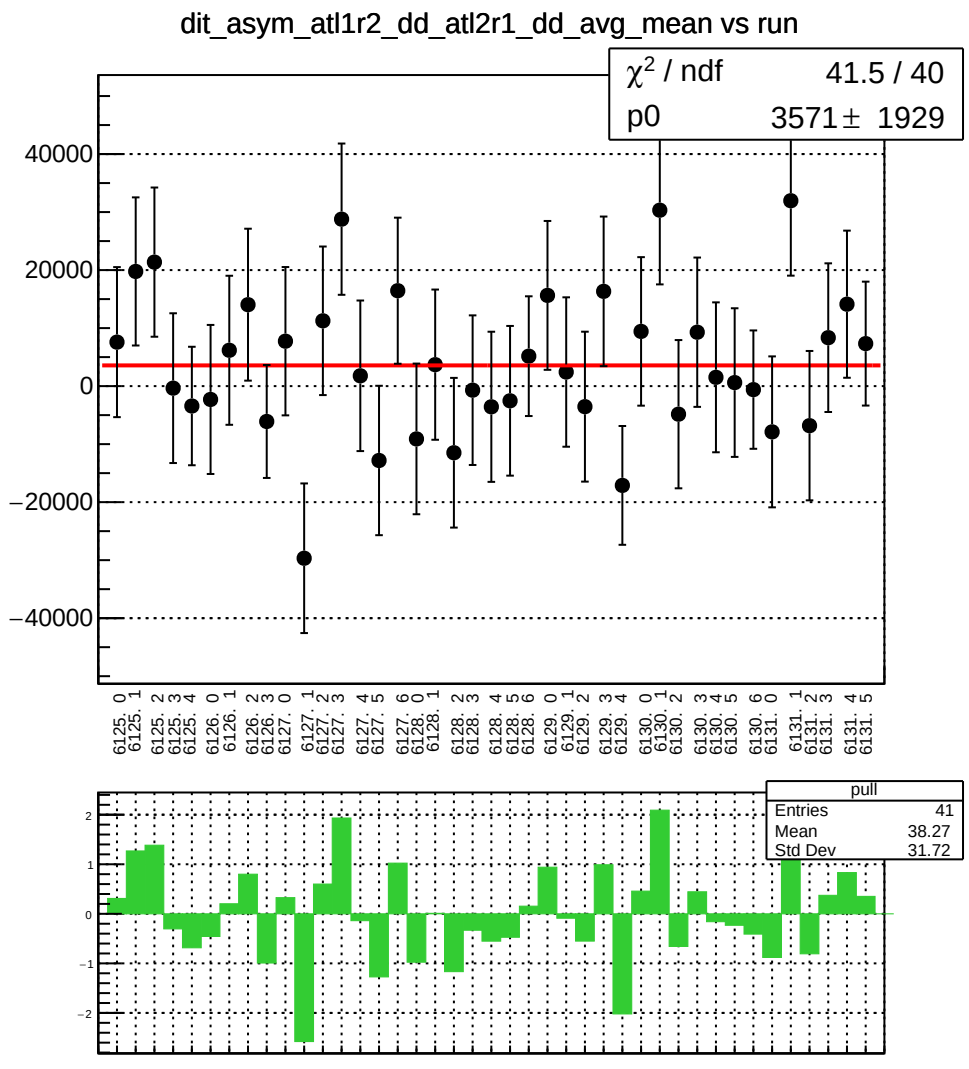

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 39.92 / 40
p0 3483 ± 1927
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 43.62
Std Dev 28.94
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.02236
Std Dev 0.9865
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

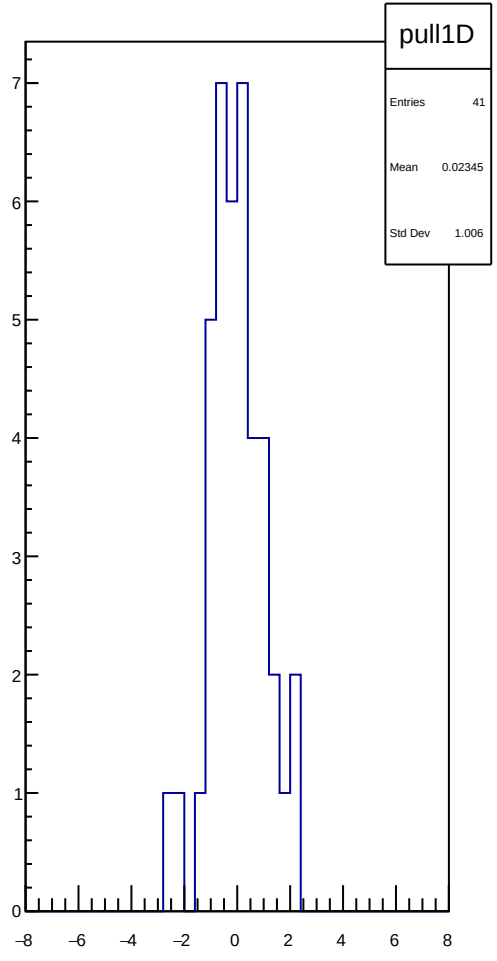

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 36.45 / 40
p0 1222 ± 1.363
1250
1240
1230
1220
1210
1200
1190
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

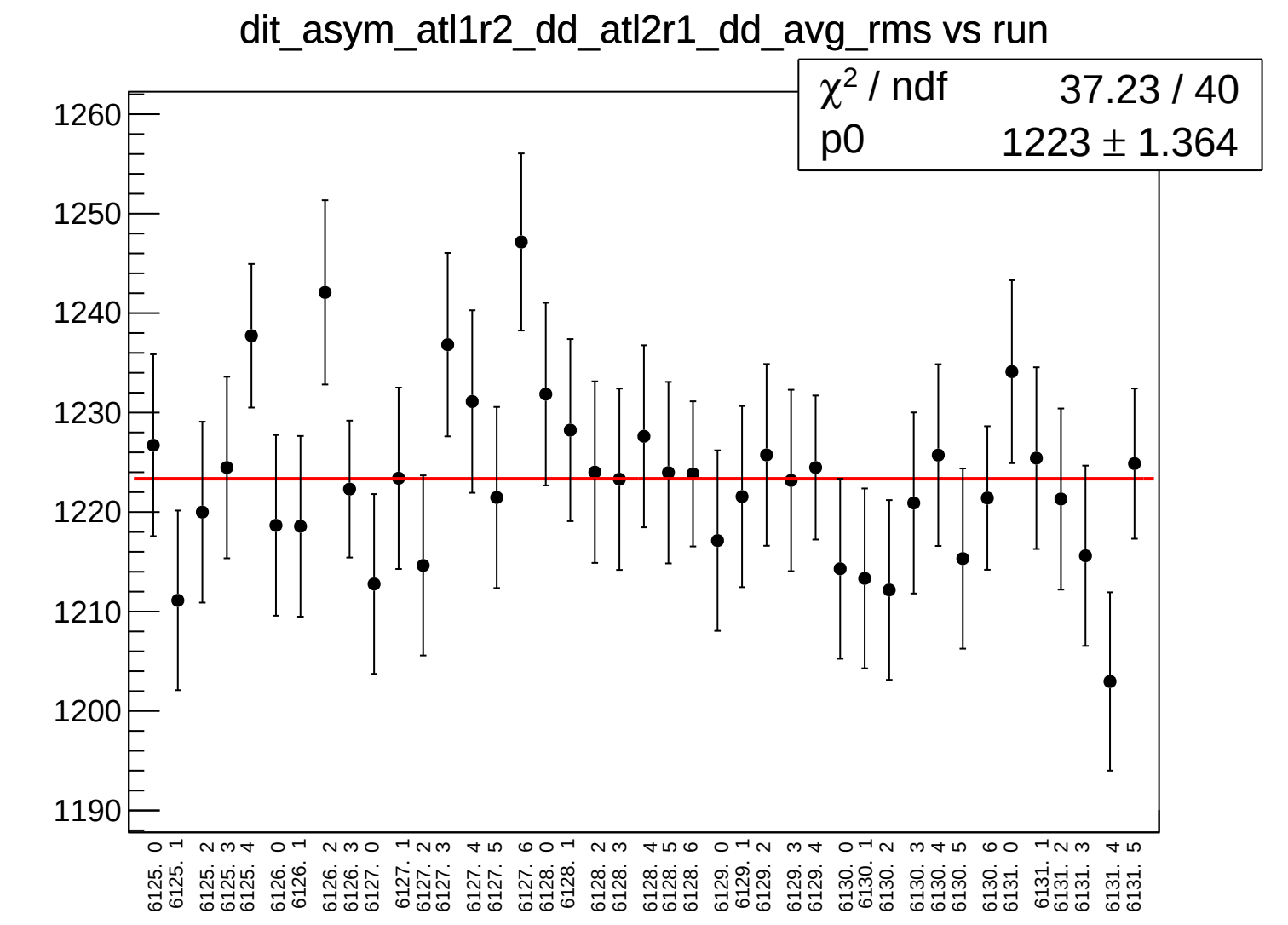

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 28.93 / 40
p0 −555.5 ± 1055
pull
Entries 41
Mean 408.7
Std Dev 0

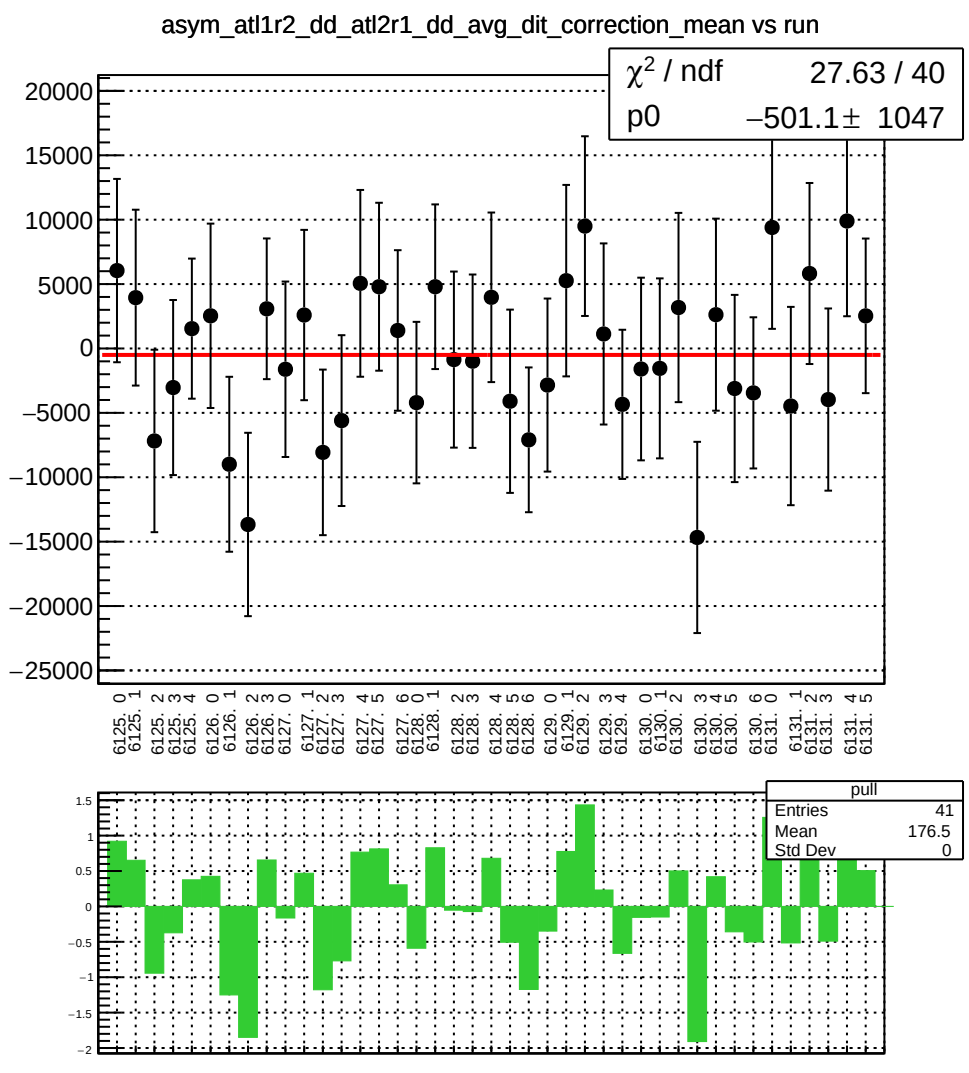

pull1D
Entries 41
Mean 0.003397
Std Dev 0.8399

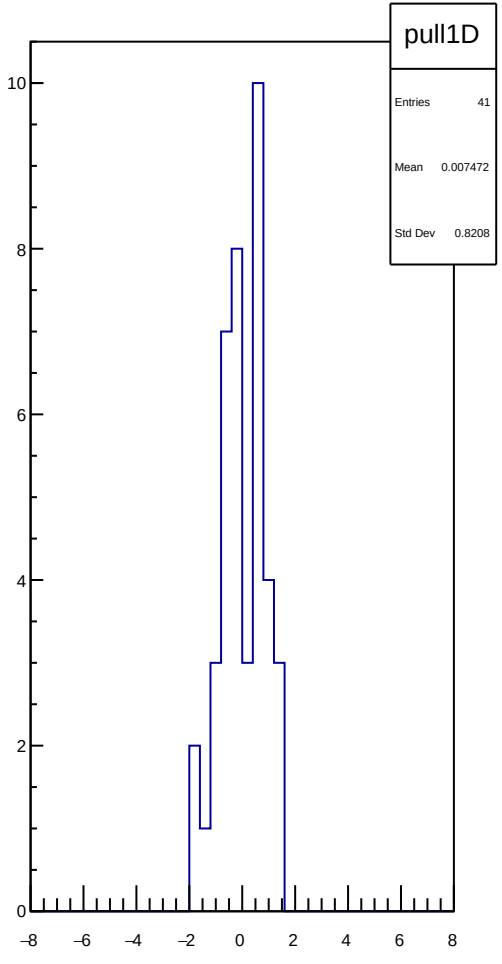

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2282 / 40
p0 667.8 ± 0.7457
780
760
740
720
700
680
660
640
620
600
580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

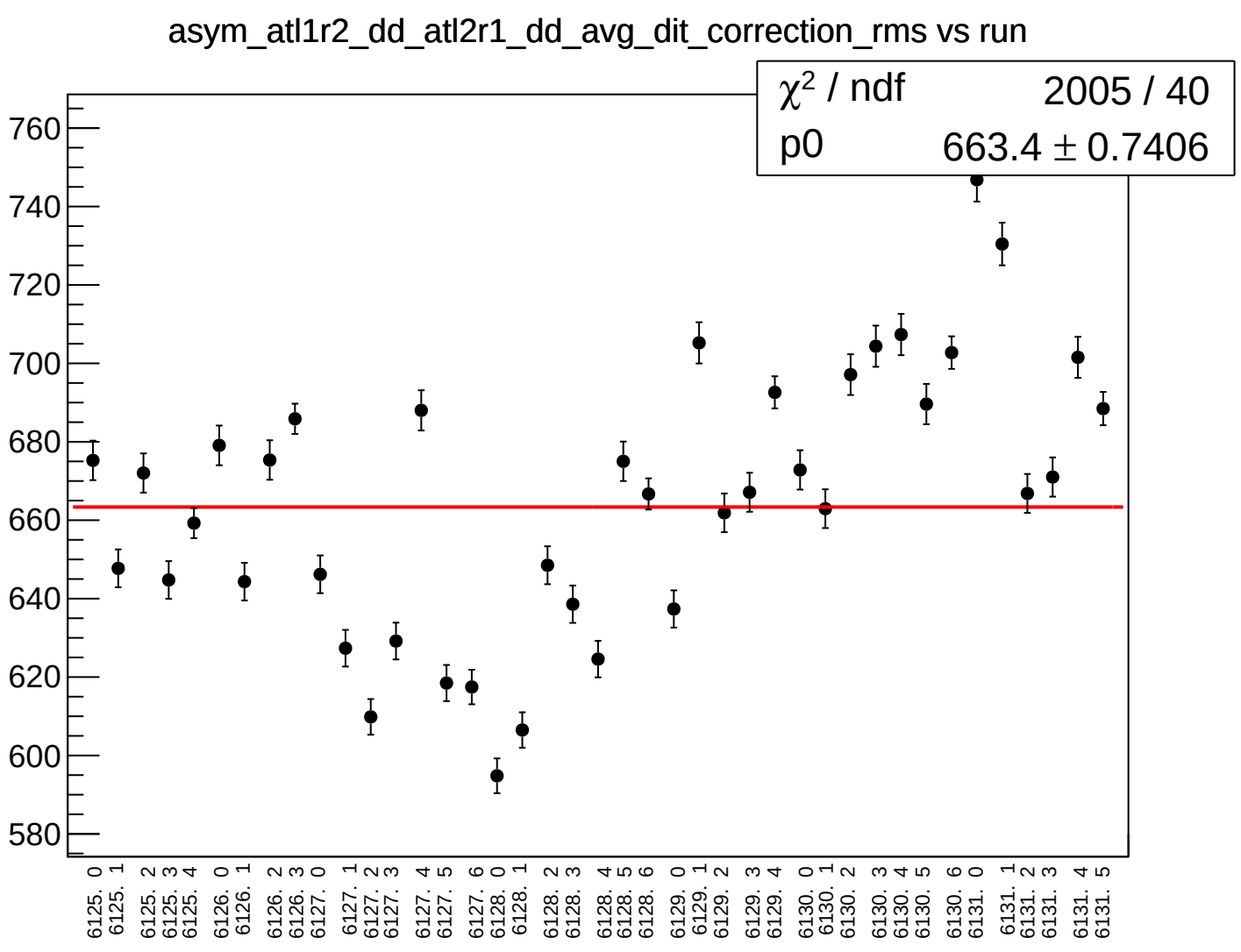

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 41.5 / 40
p0 3571 ± 1929
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 38.27
Std Dev 31.72
2
1
0
−1
−2

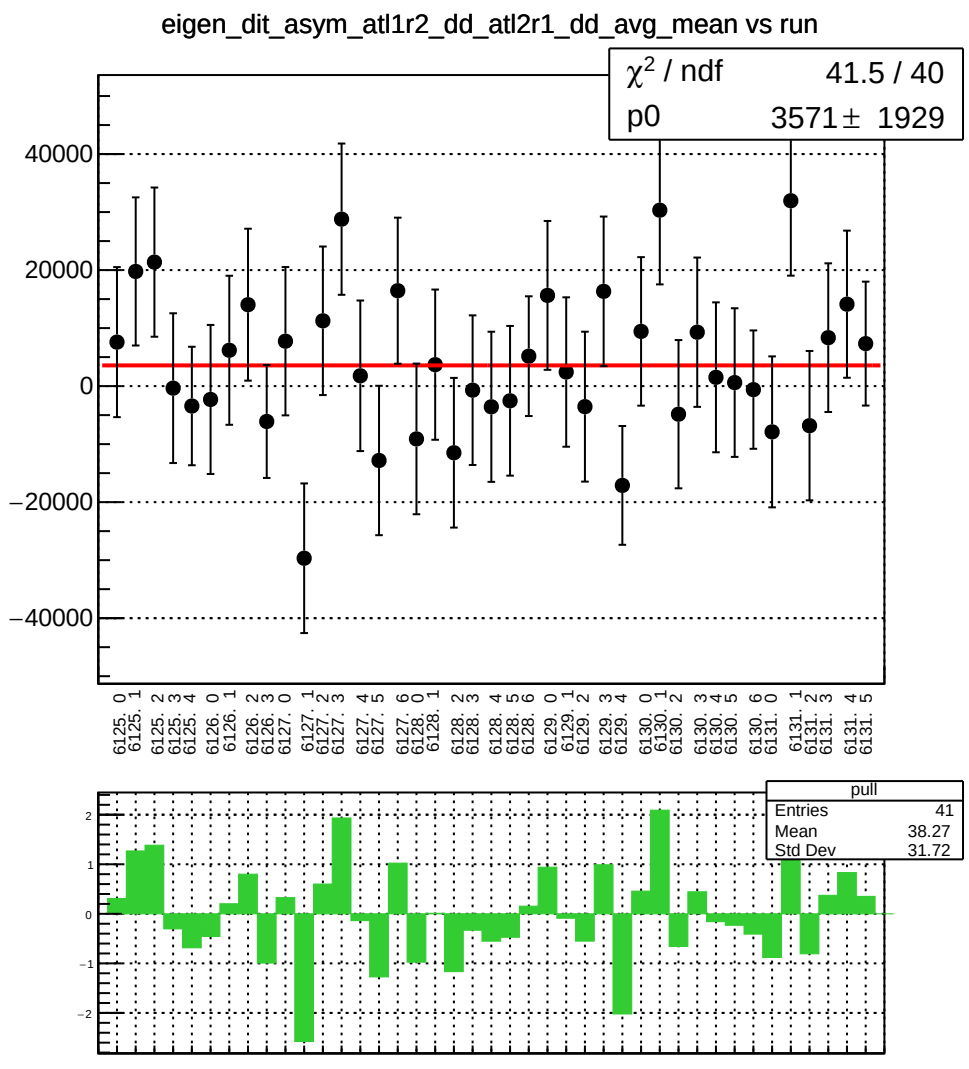

pull1D
Entries 41
Mean 0.02345
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

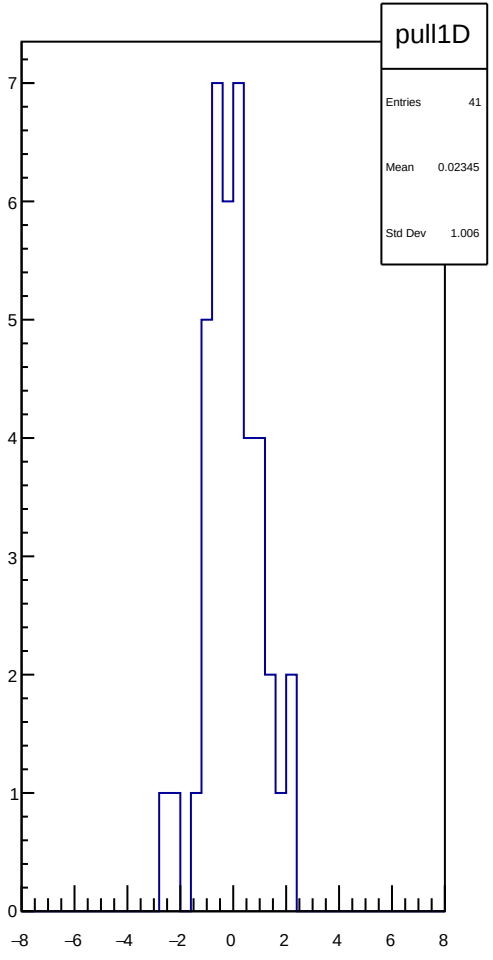

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 37.23 / 40
p0 1223 ± 1.364
1260
1250
1240
1230
1220
1210
1200
1190
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

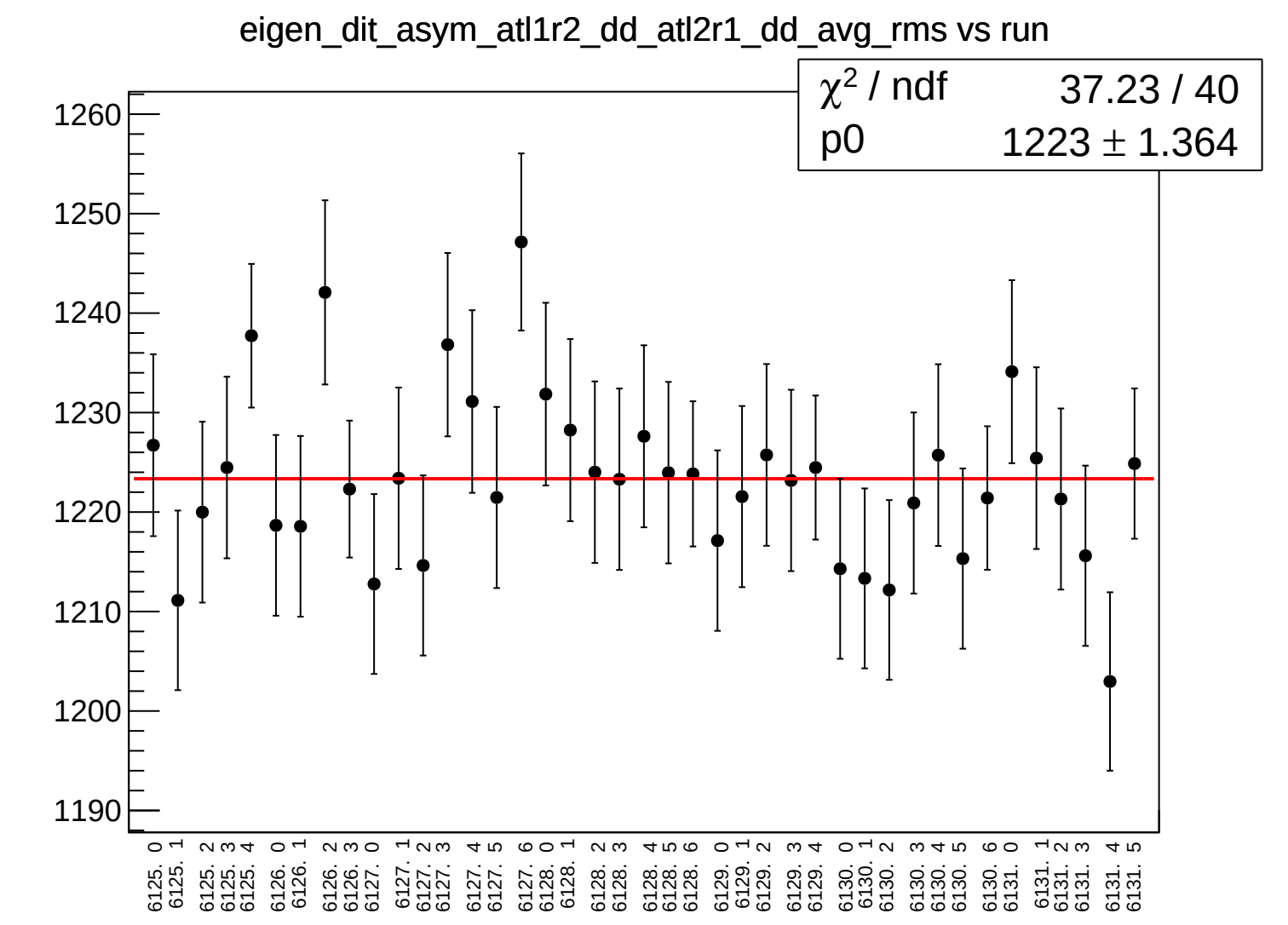

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 27.63 / 40
p0 −501.1± 1047
pull
Entries 41
Mean 176.5
Std Dev 0

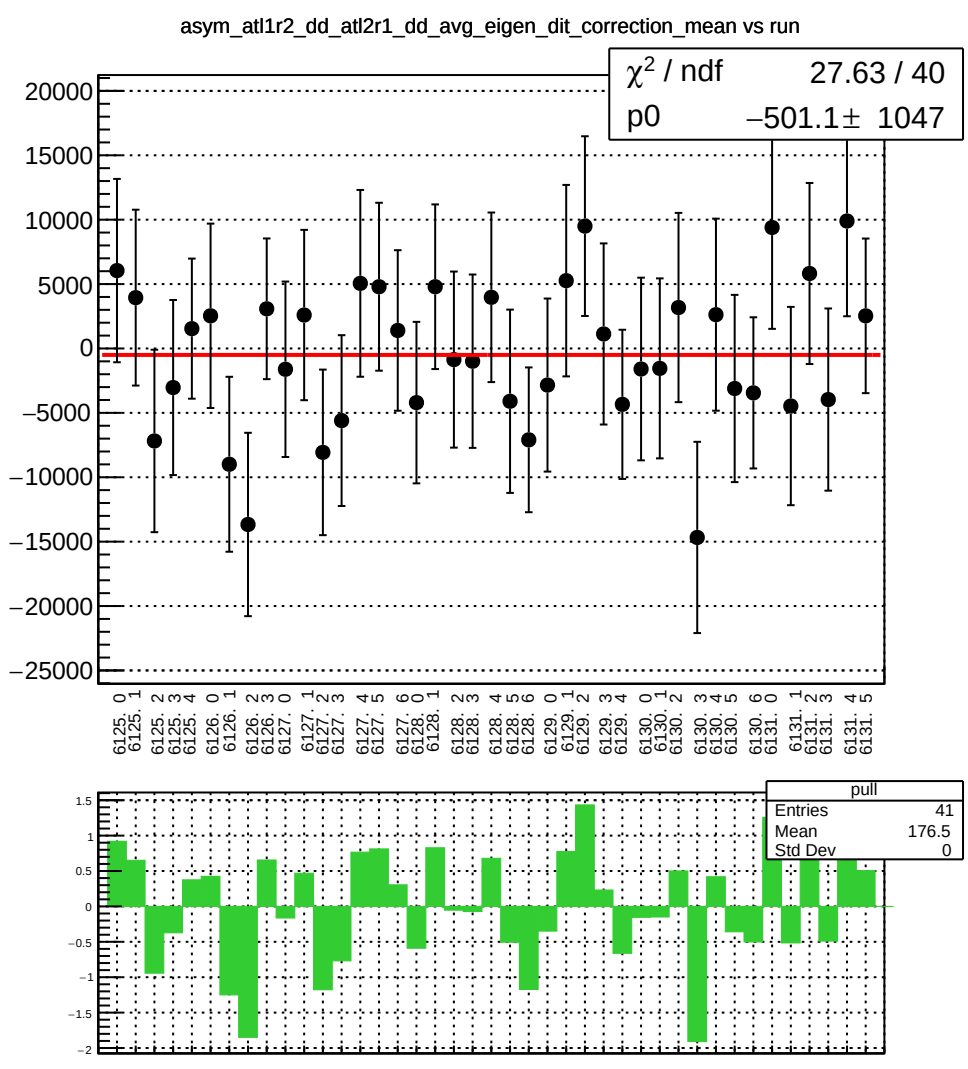

pull1D
Entries 41
Mean 0.007472
Std Dev 0.8208

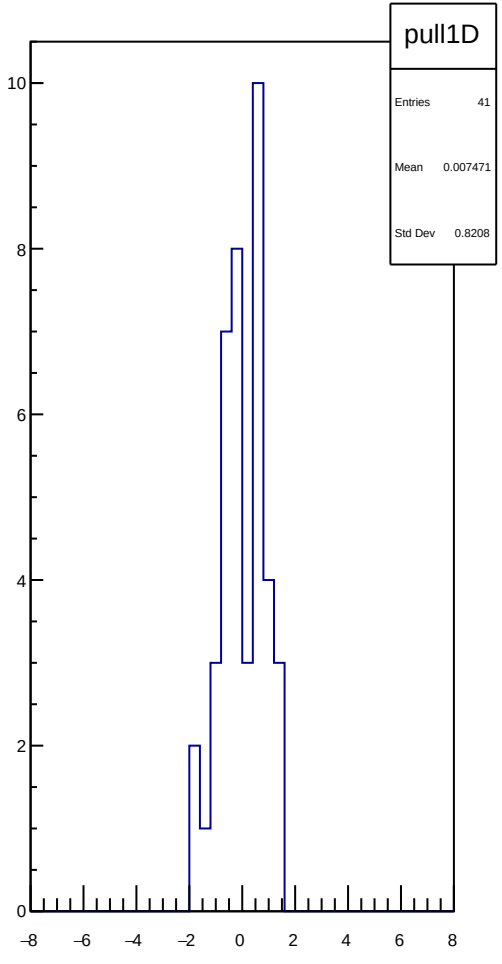

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 2005 / 40
p0 663.4 ± 0.7406
760
740
720
700
680
660
640
620
600
580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

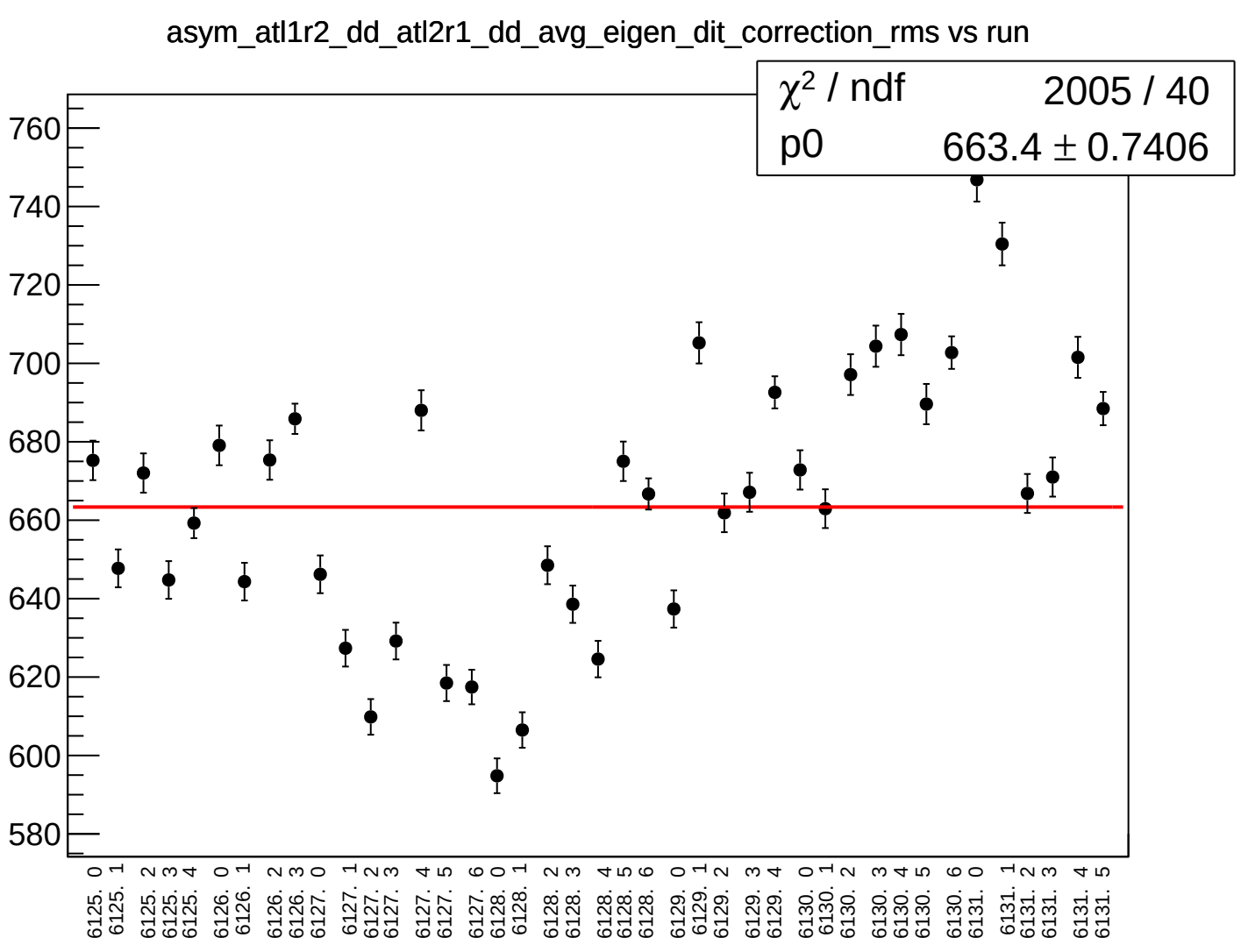

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 41.5 / 40
p0 3571 ± 1929
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 38.27
Std Dev 31.72
2
1
0
−1
−2

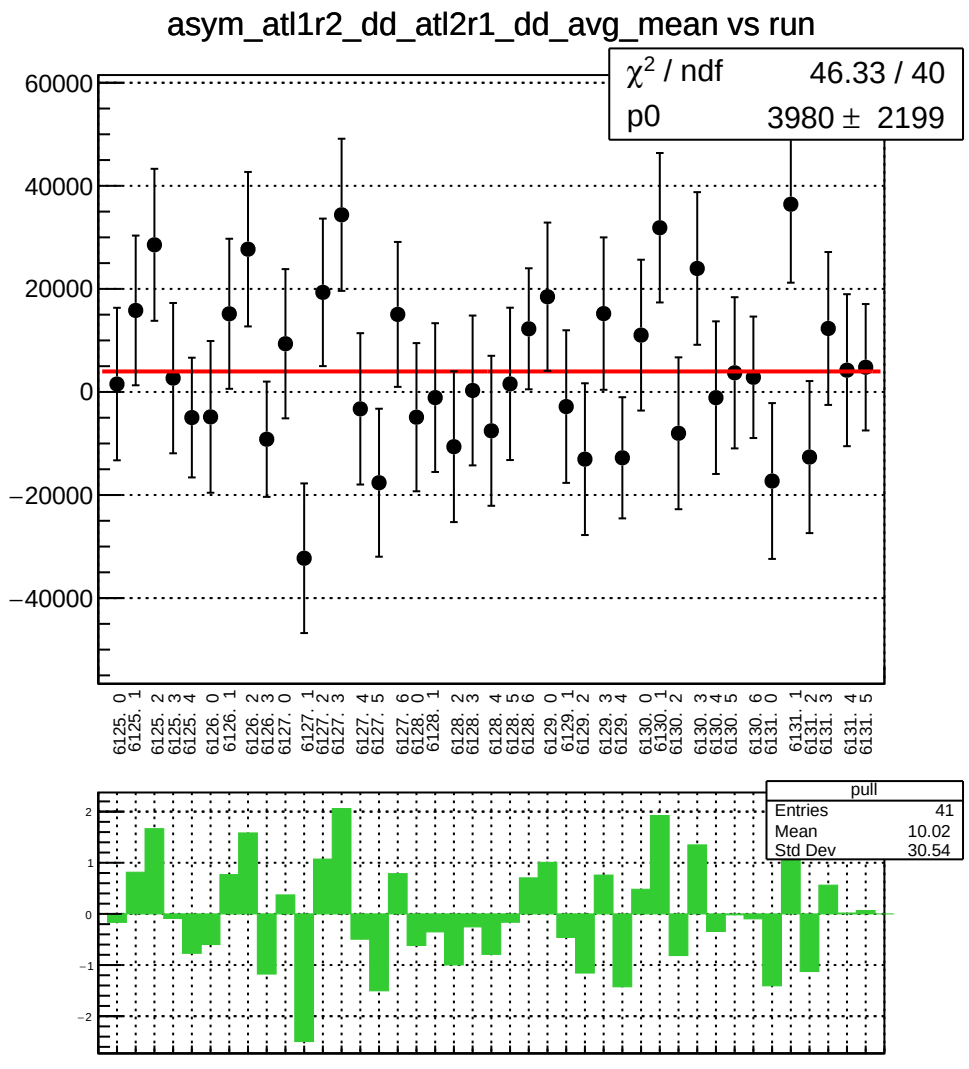

pull1D
Entries 41
Mean 0.02345
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

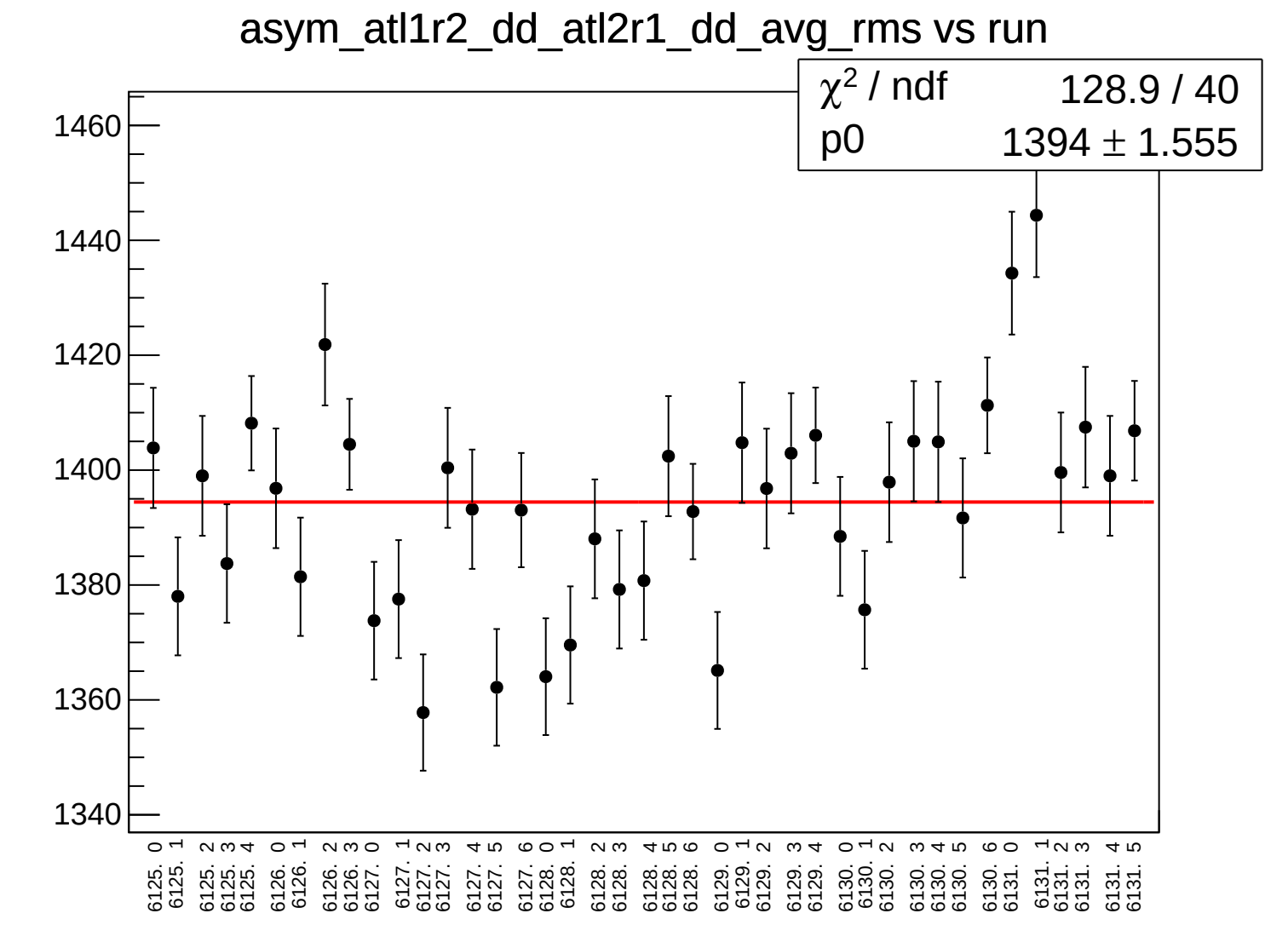

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 37.23 / 40
p0 1223 ± 1.364
1260
1250
1240
1230
1220
1210
1200
1190
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

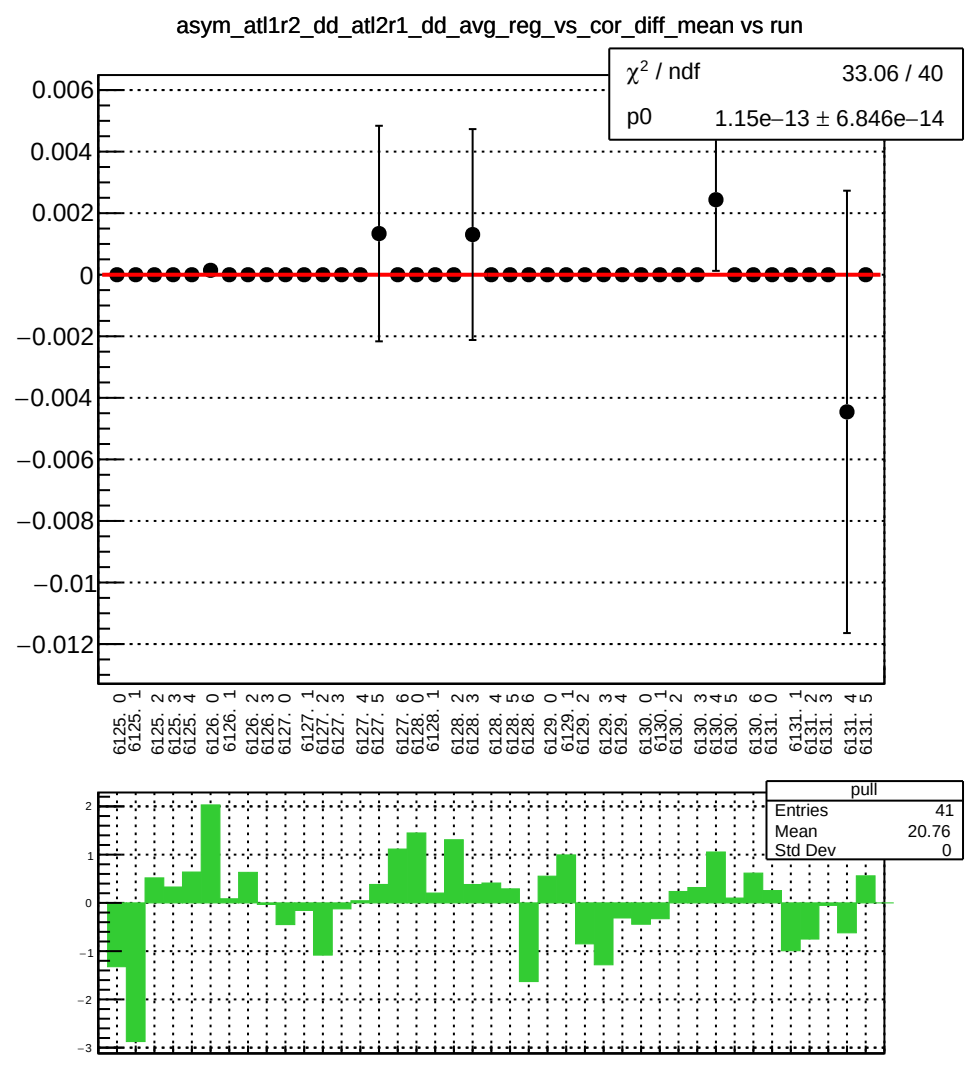

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 27.63 / 40
p0 −501.1± 1047
pull
Entries 41
Mean 176.5
Std Dev 0

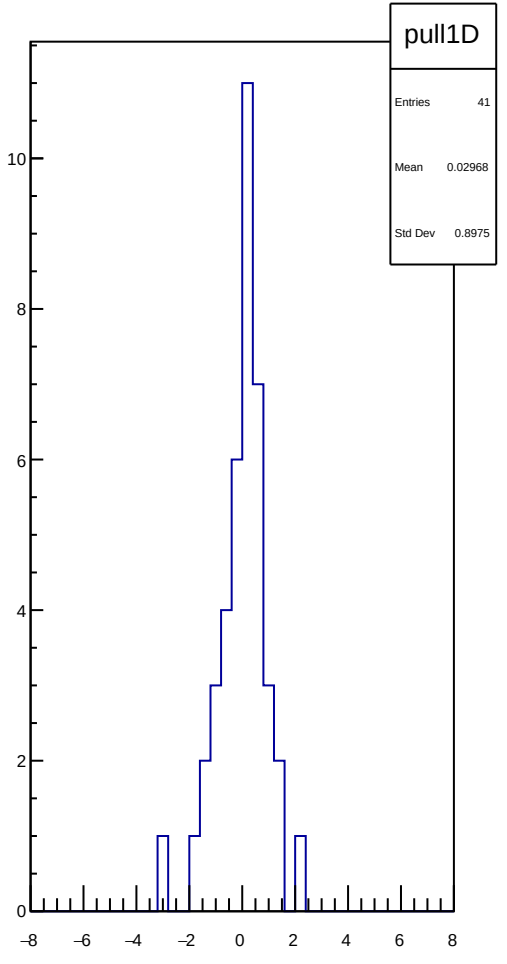

pull1D
Entries 41
Mean 0.007471
Std Dev 0.8208

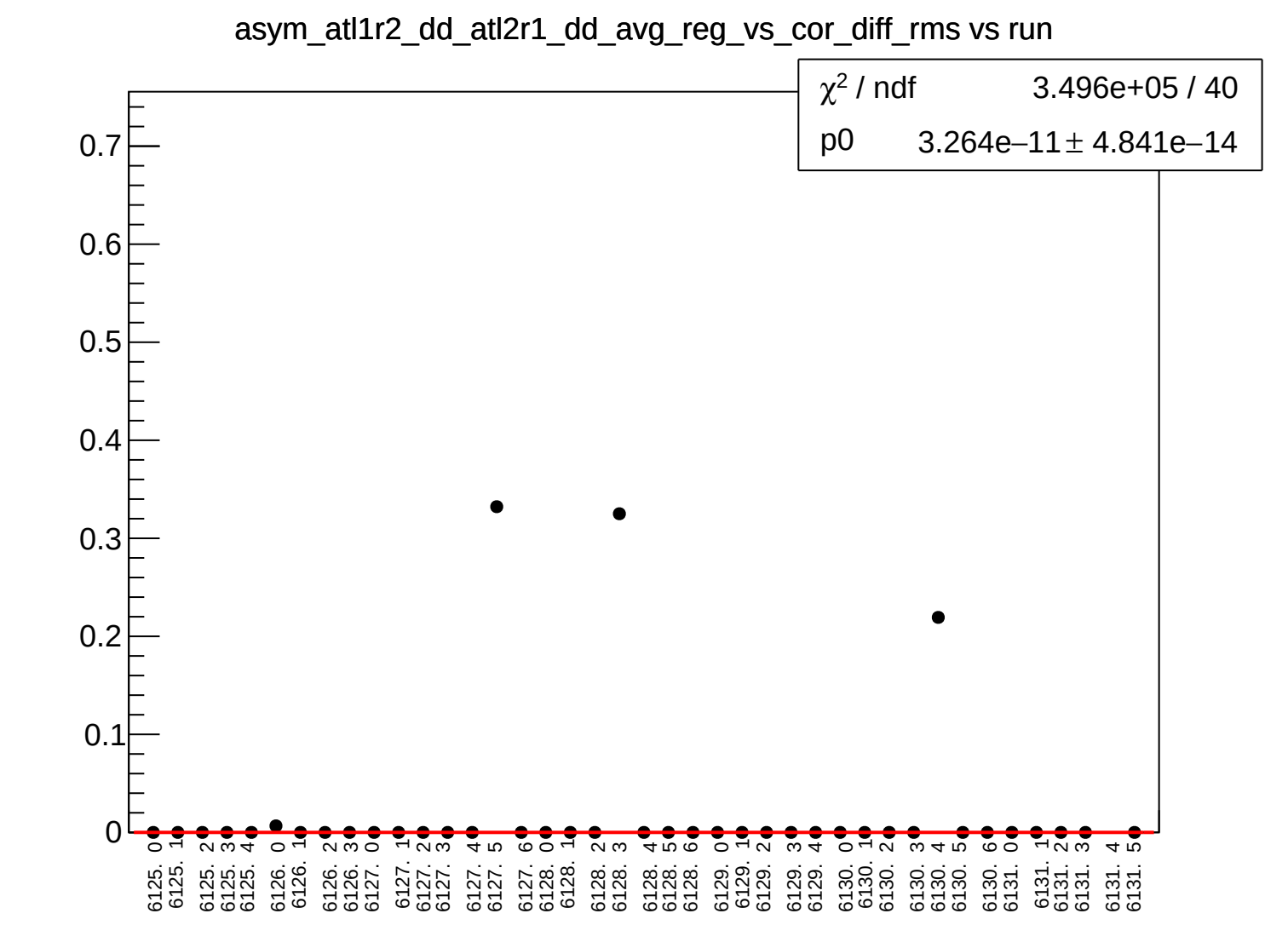

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2005 / 40
p0 663.4 ± 0.7406
760
740
720
700
680
660
640
620
600
580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

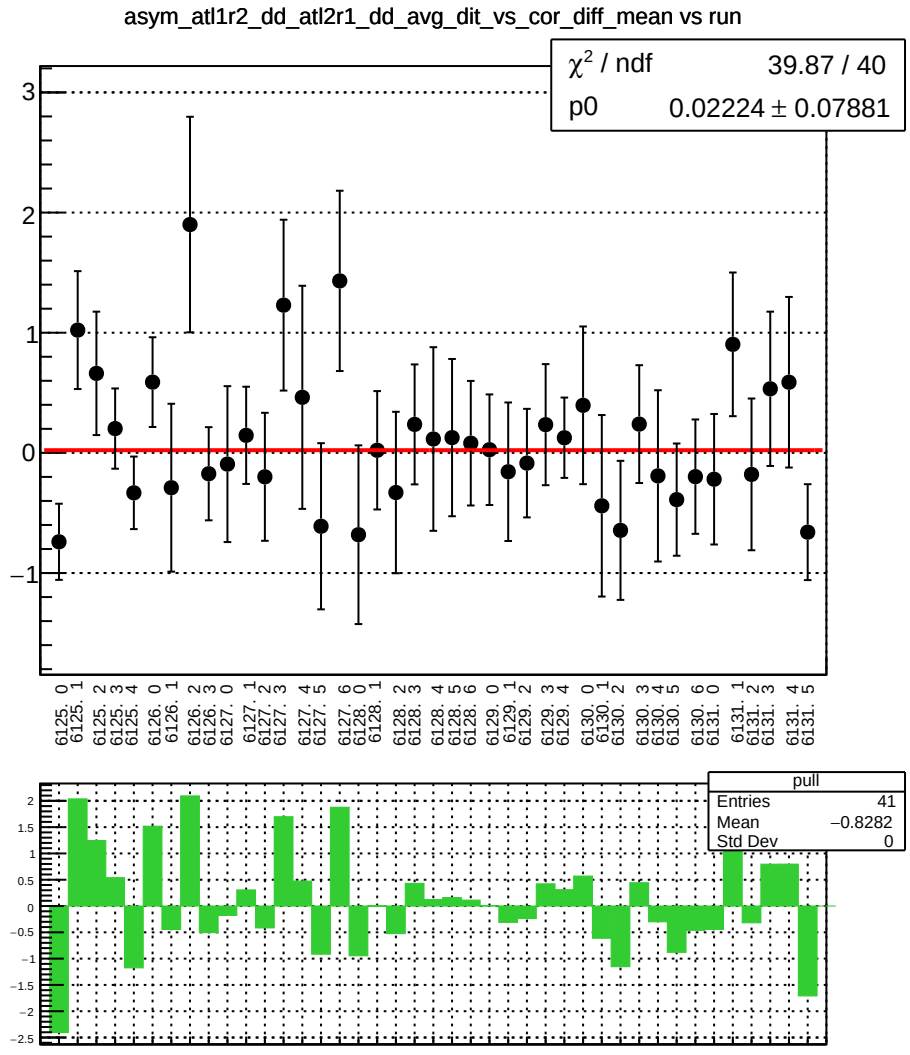

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 46.33 / 40
p0 3980 ± 2199
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 10.02
Std Dev 30.54
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01979
Std Dev 1.063
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

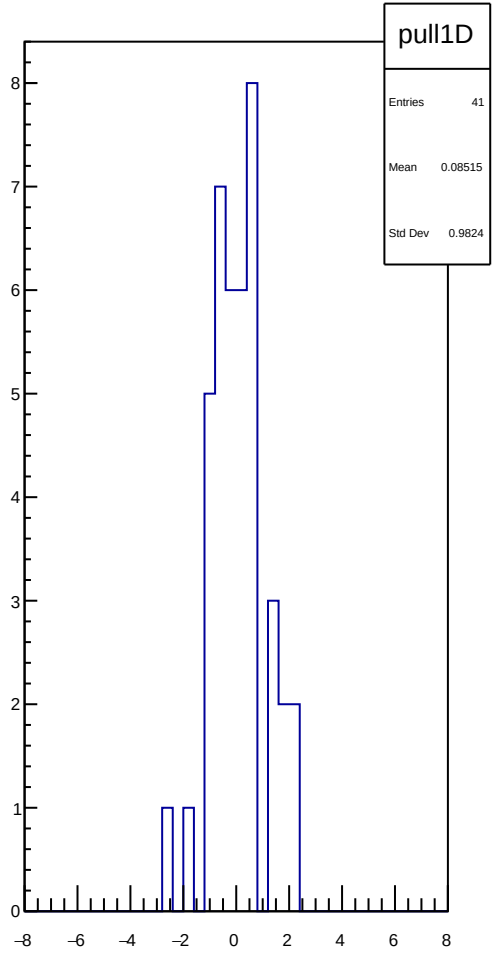

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 128.9 / 40
p0 1394 ± 1.555
1460
1440
1420
1400
1380
1360
1340
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

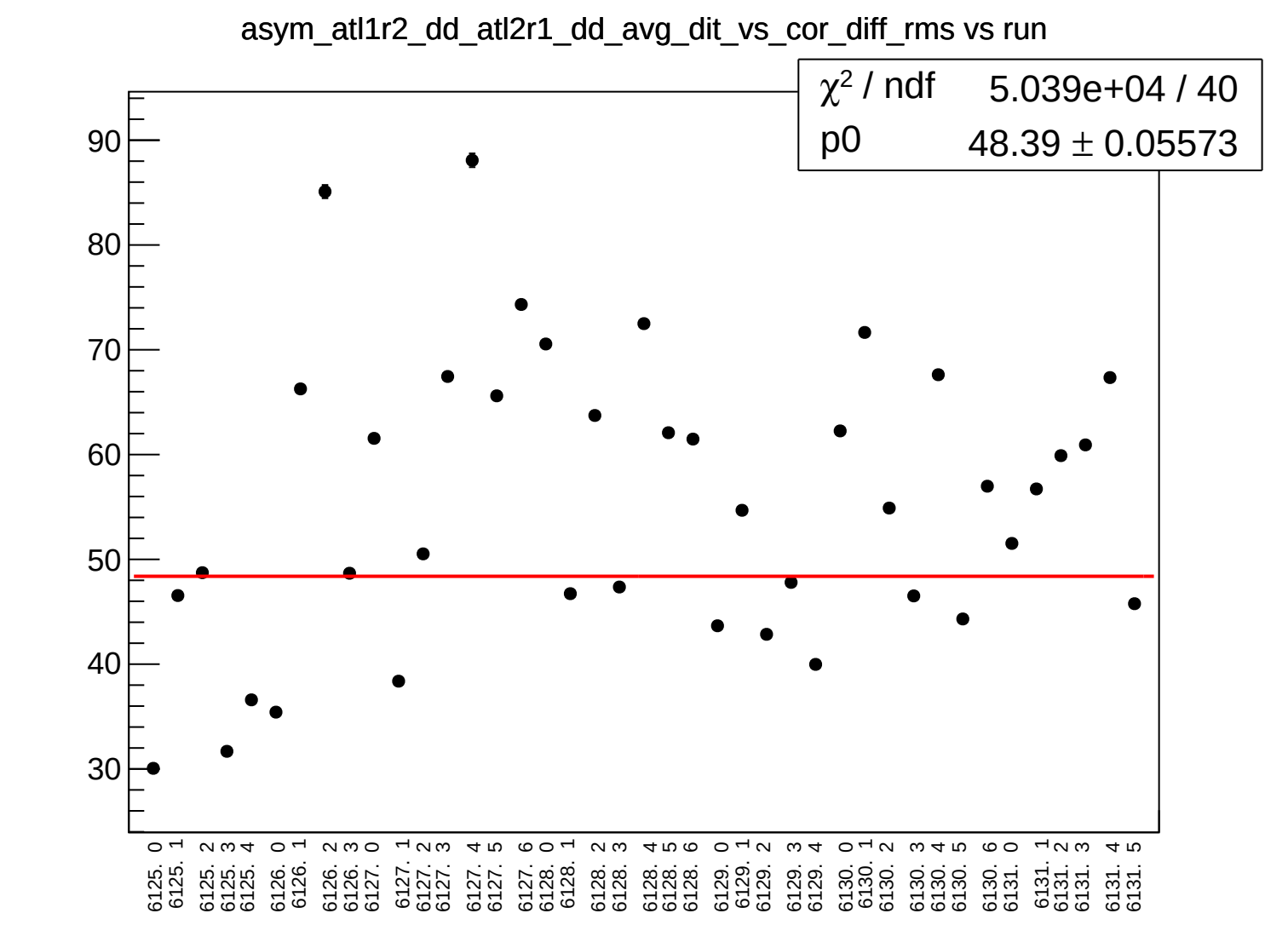

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 33.06 / 40
p0 1.15e−13 ± 6.846e−14
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
−0.012
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 20.76
Std Dev 0
2
1
0
−1
−2
−3

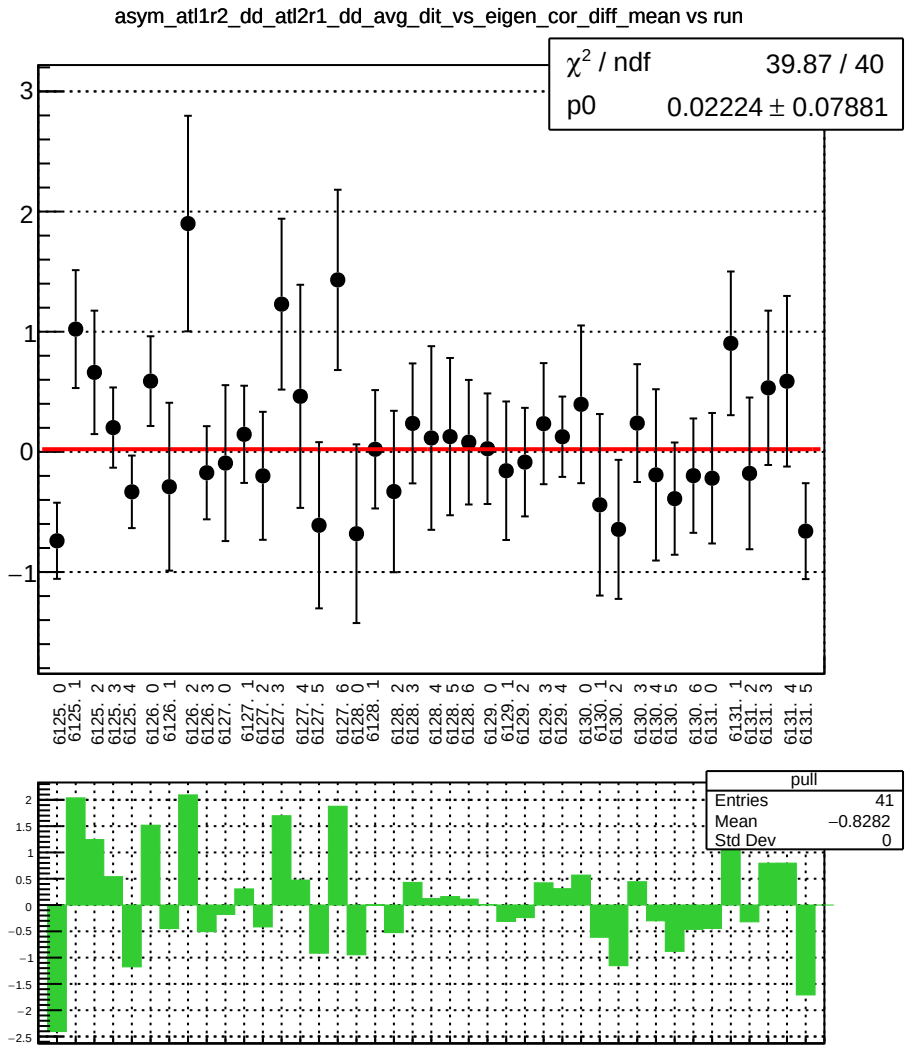

pull1D
Entries 41
Mean 0.02968
Std Dev 0.8975
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

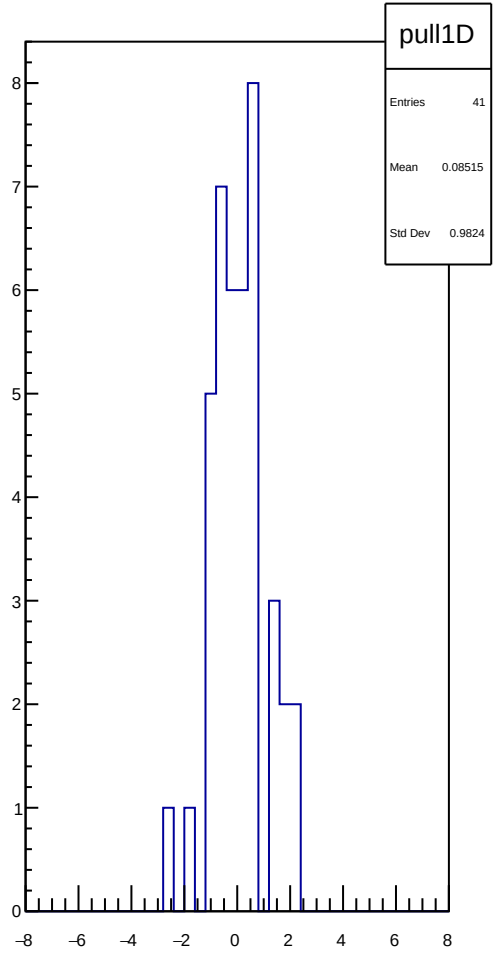

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.496e+05 / 40
p0 3.264e−11 ± 4.841e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

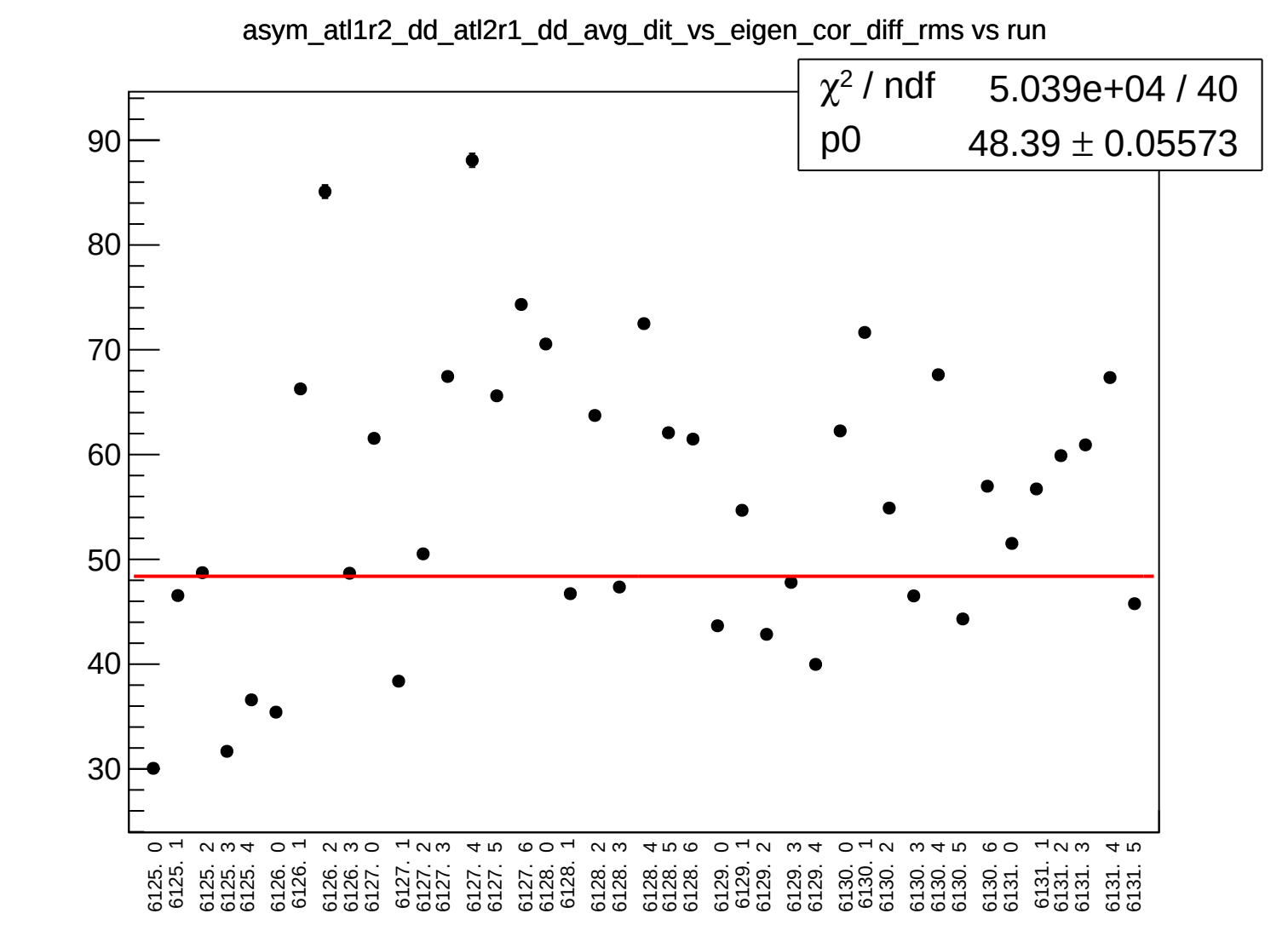

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 39.87 / 40
p0 0.02224 ± 0.07881
pull
Entries 41
Mean −0.8282
Std Dev 0

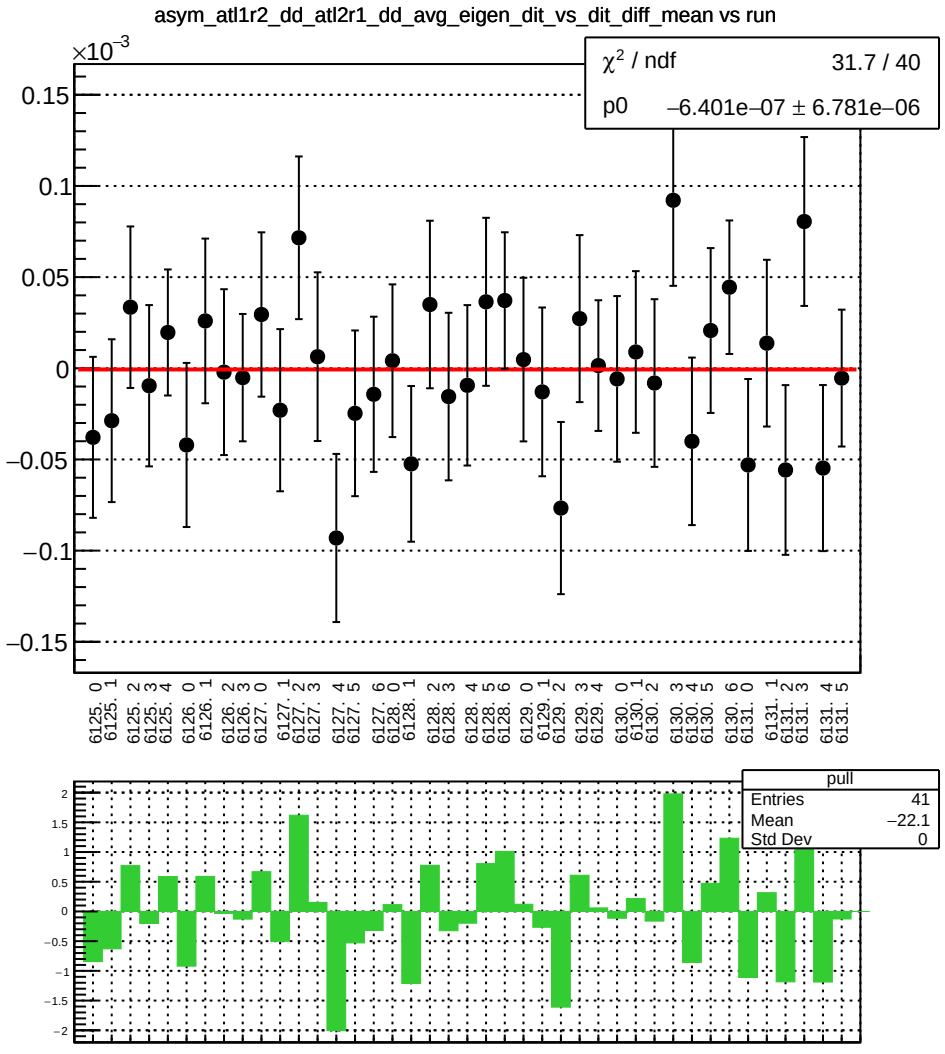

pull1D
Entries 41
Mean 0.08515
Std Dev 0.9824

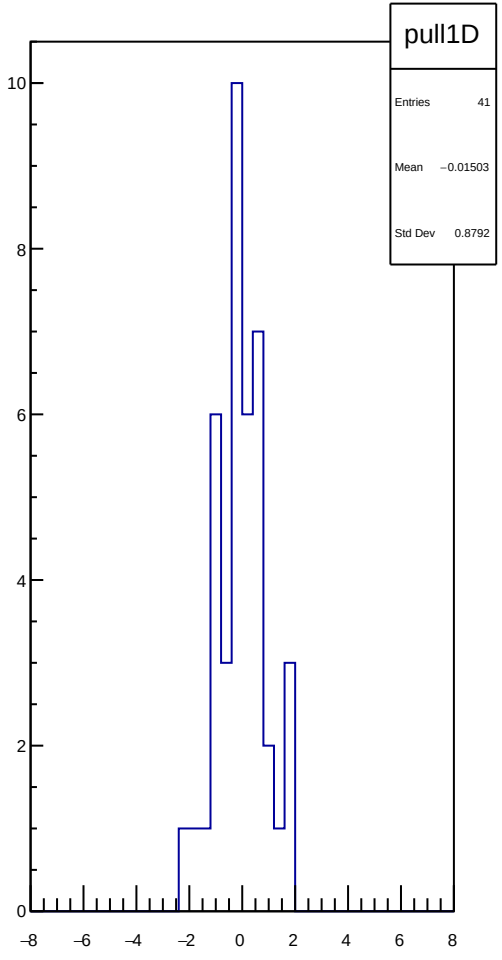

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.039e+04 / 40
p0 48.39 ± 0.05573
90
80
70
60
50
40
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

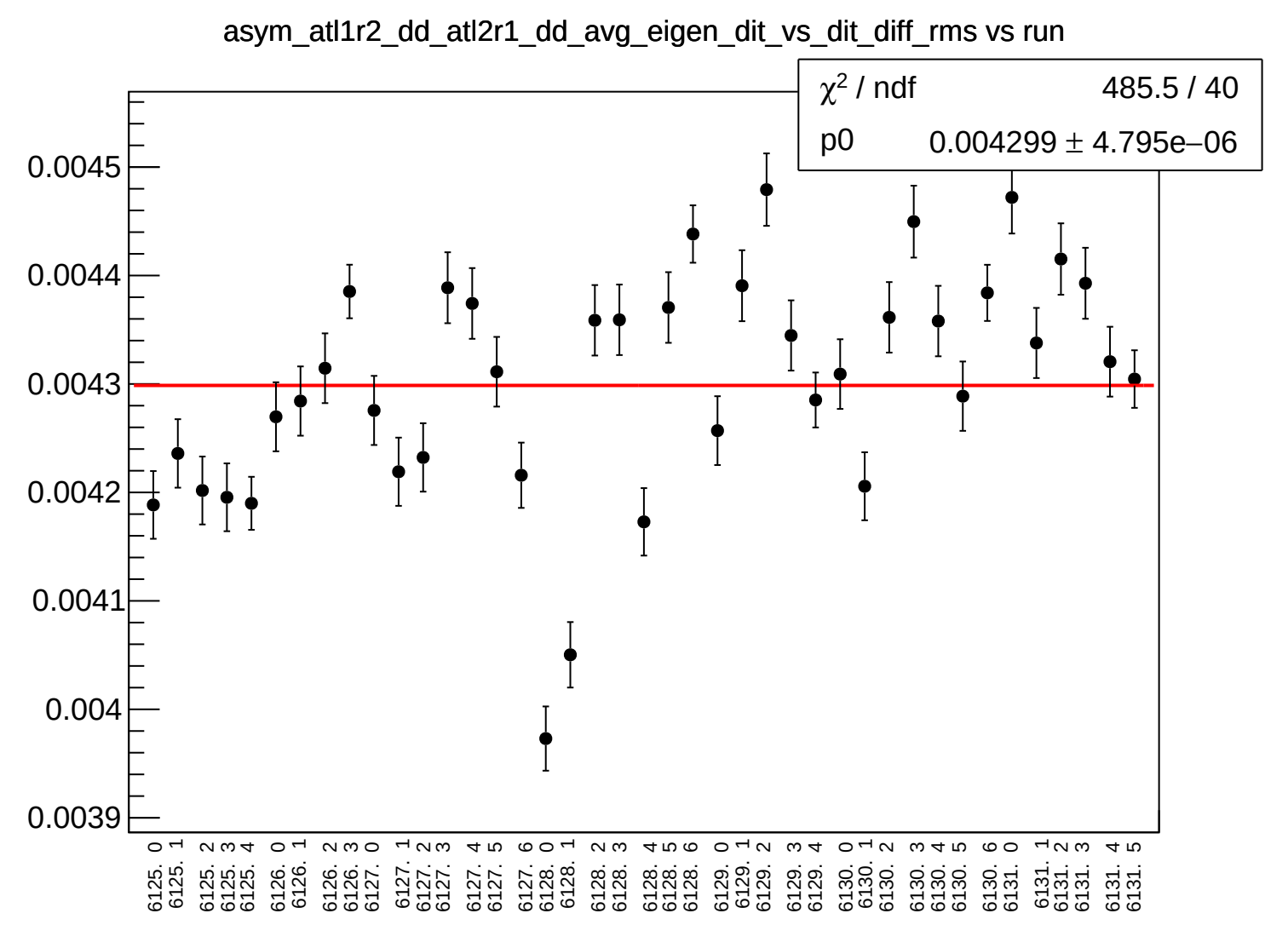

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.87 / 40
p0 0.02224 ± 0.07881
pull
Entries 41
Mean −0.8282
Std Dev 0

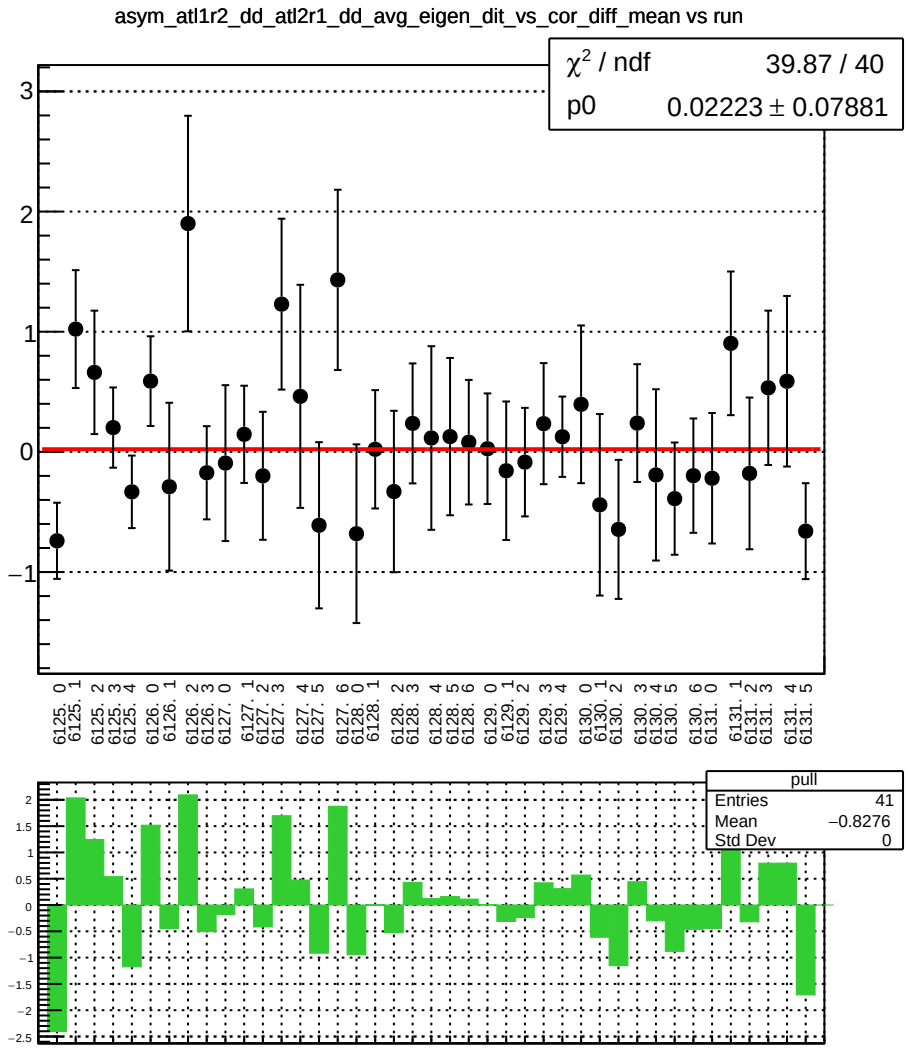

pull1D
Entries 41
Mean 0.08515
Std Dev 0.9824

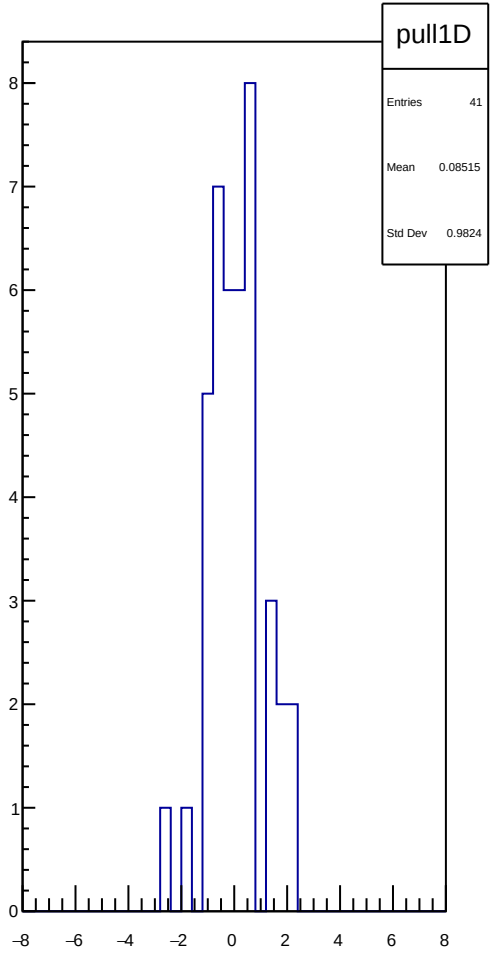

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.039e+04 / 40
p0 48.39 ± 0.05573
90
80
70
60
50
40
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

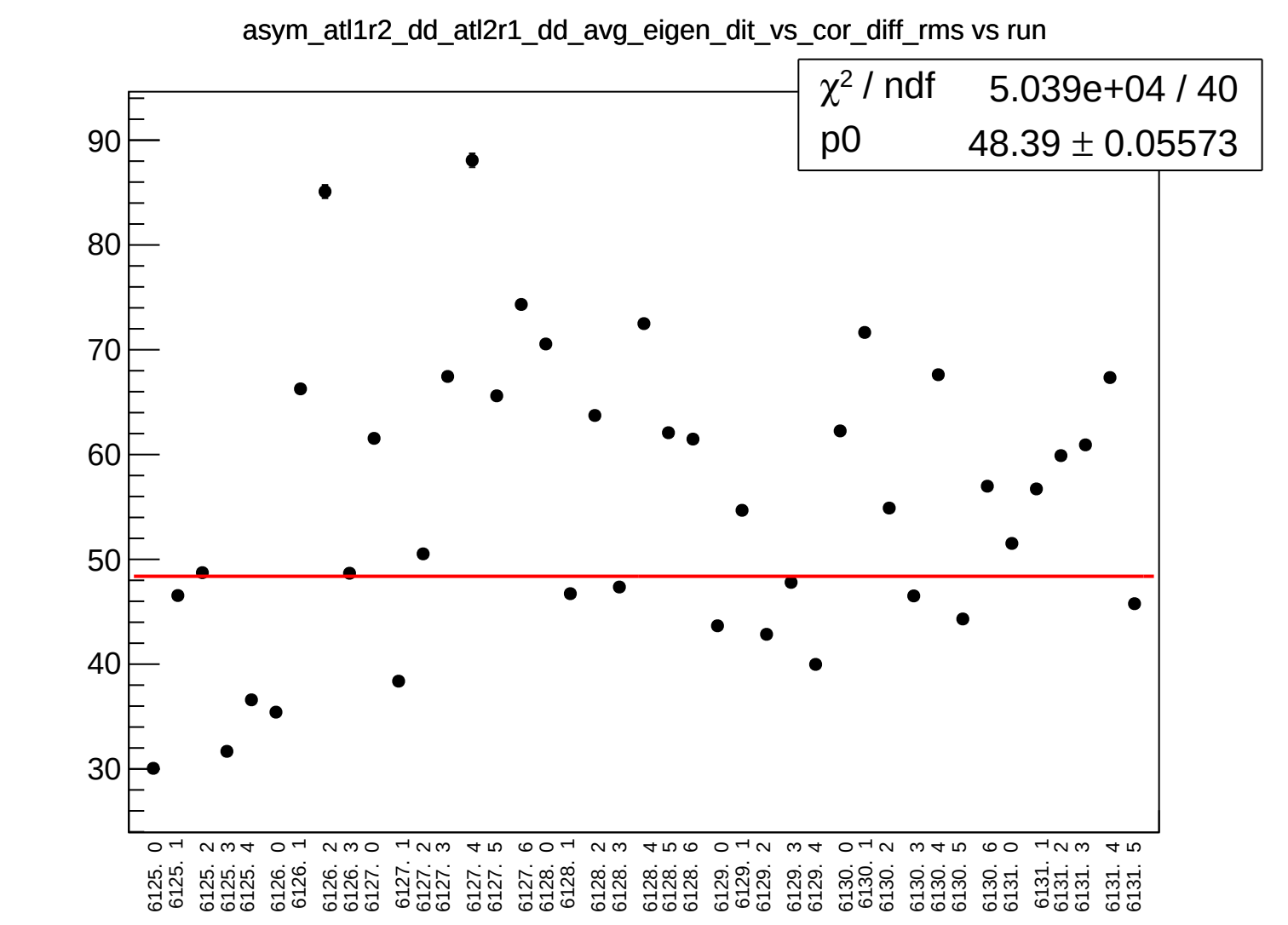

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 31.7 / 40
p0 −6.401e−07 ± 6.781e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −22.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

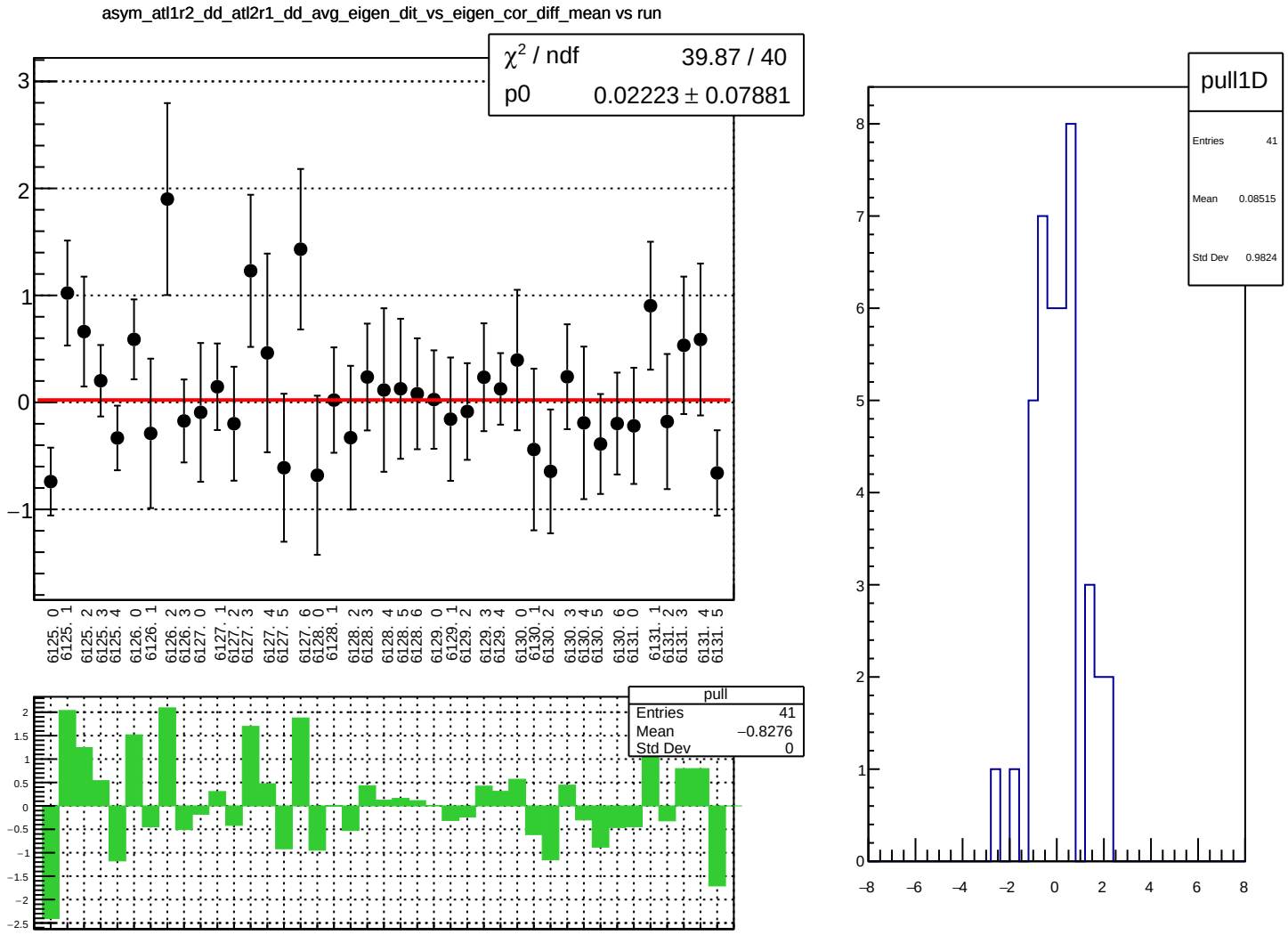

pull1D
Entries 41
Mean −0.01503
Std Dev 0.8792
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

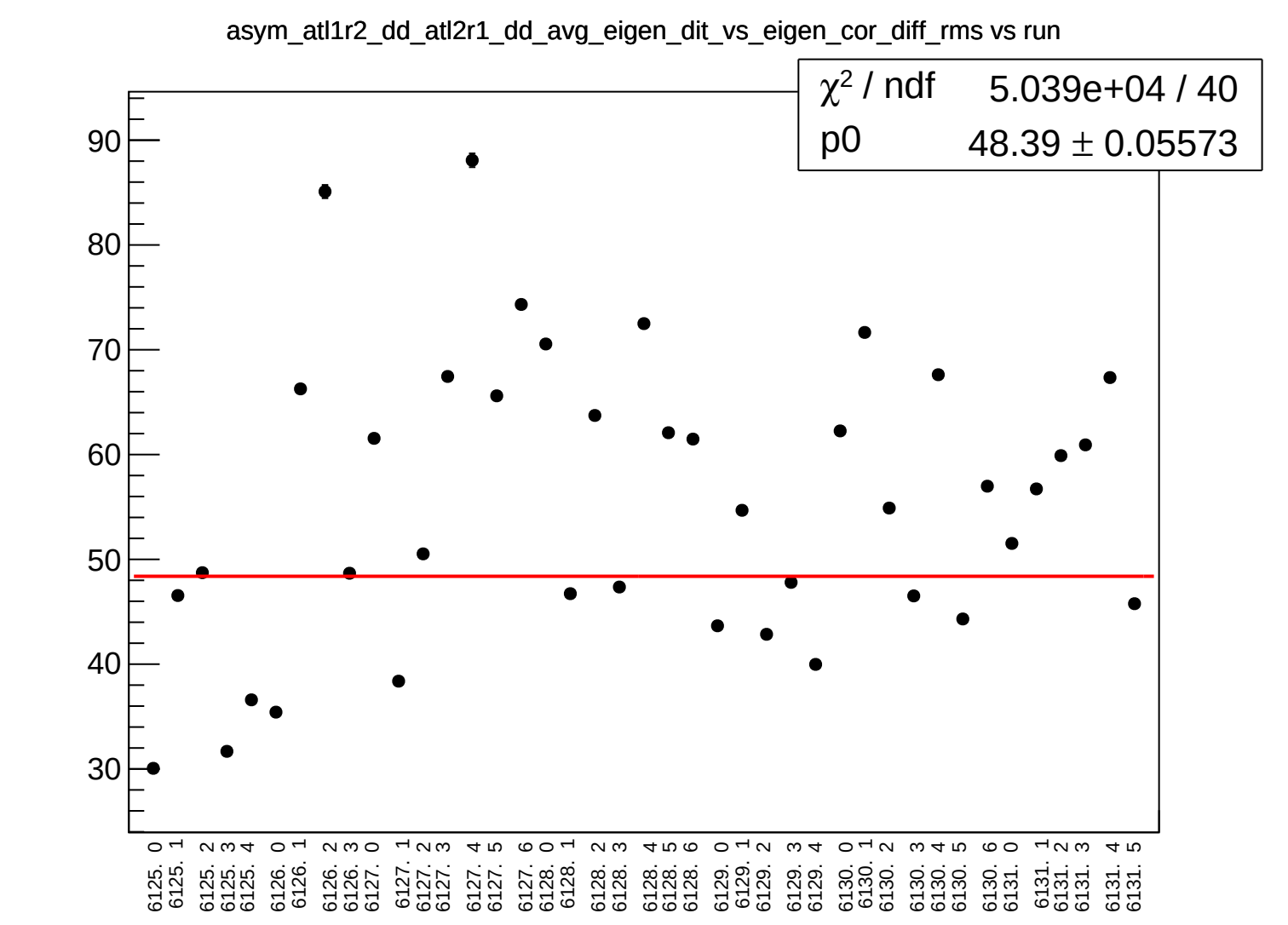

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 485.5 / 40
p0 0.004299 ± 4.795e−06
0.0045
0.0044
0.0043
0.0042
0.0041
0.004
0.0039
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

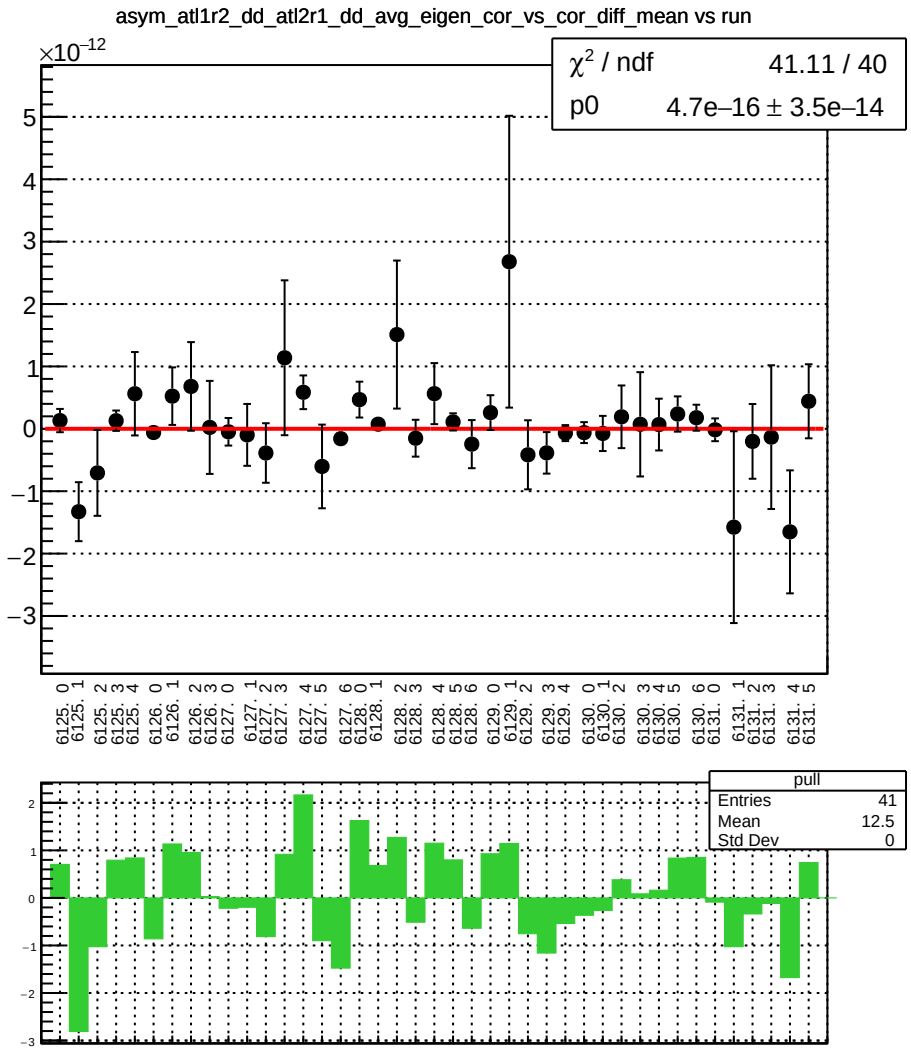

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 39.87 / 40
p0 0.02223 ± 0.07881
pull
Entries 41
Mean −0.8276
Std Dev 0

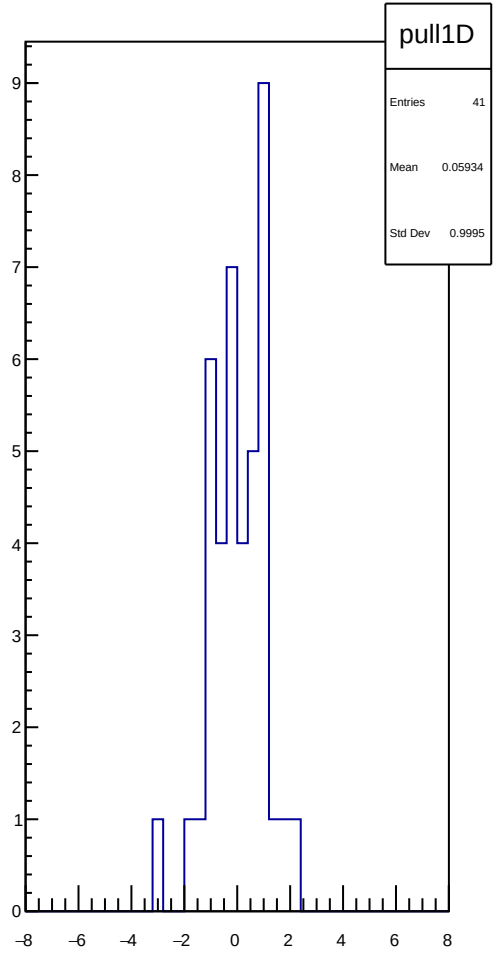

pull1D
Entries 41
Mean 0.08515
Std Dev 0.9824

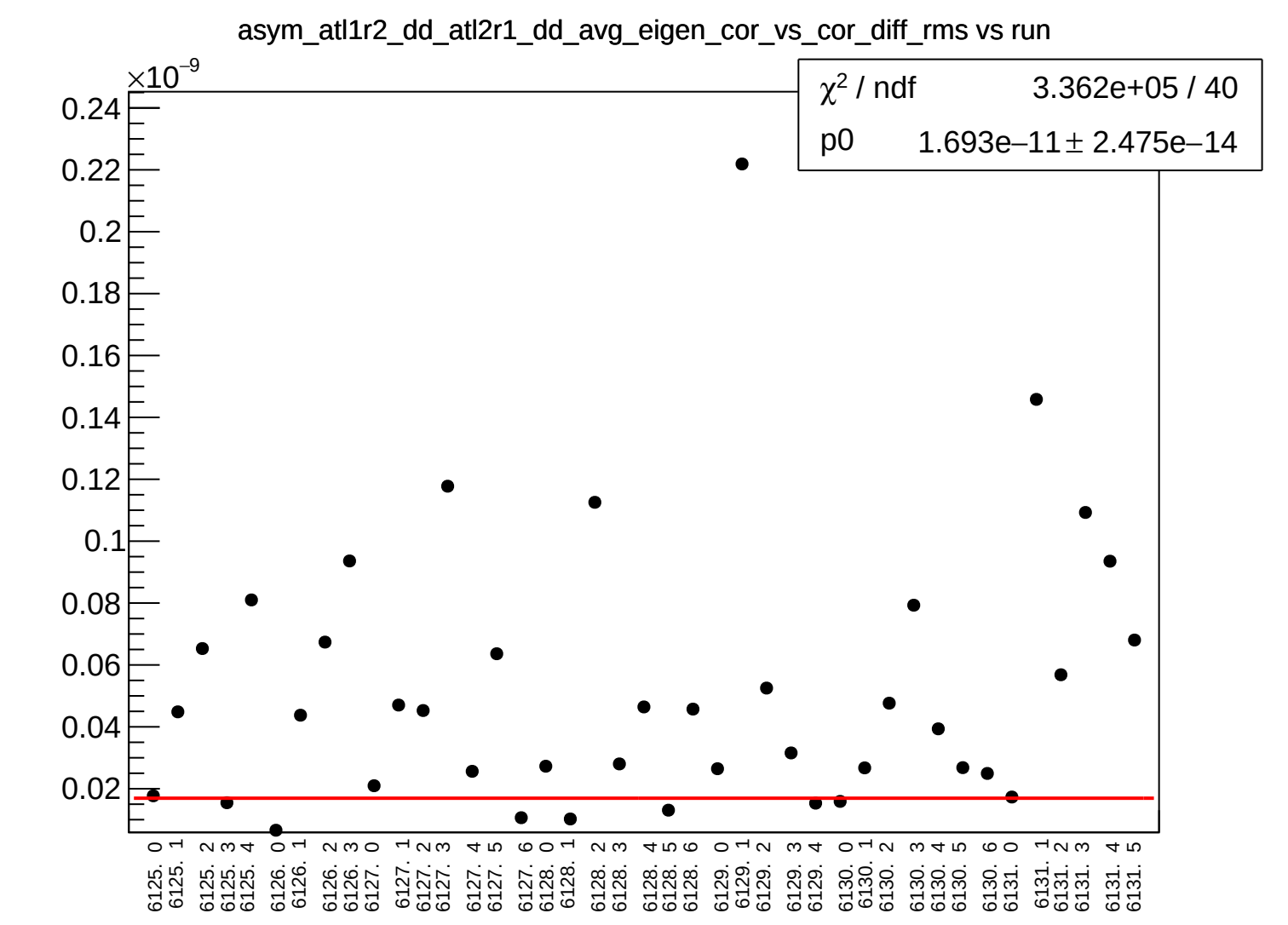

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.039e+04 / 40
p0 48.39 ± 0.05573
90
80
70
60
50
40
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

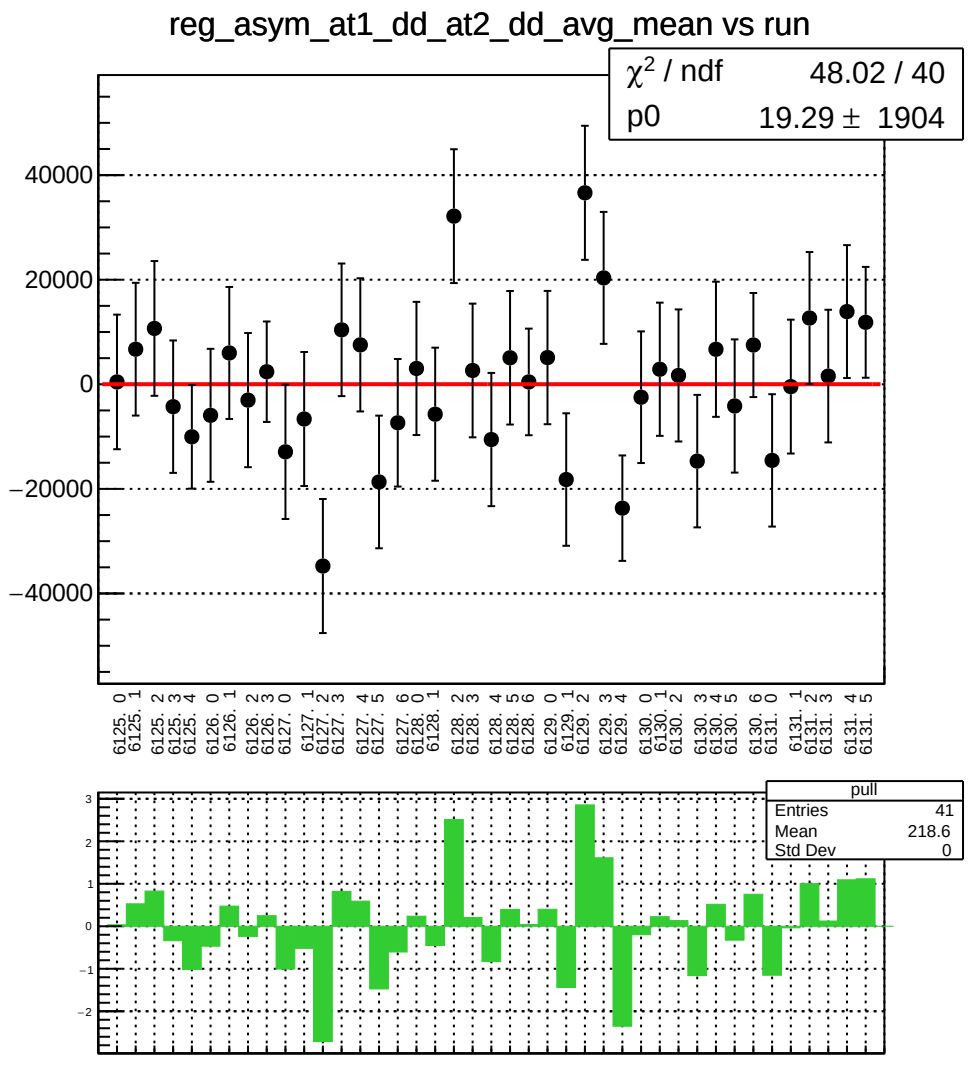

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.87 / 40
p0 0.02223 ± 0.07881
pull
Entries 41
Mean −0.8276
Std Dev 0
pull1D
Entries 41
Mean 0.08515
Std Dev 0.9824

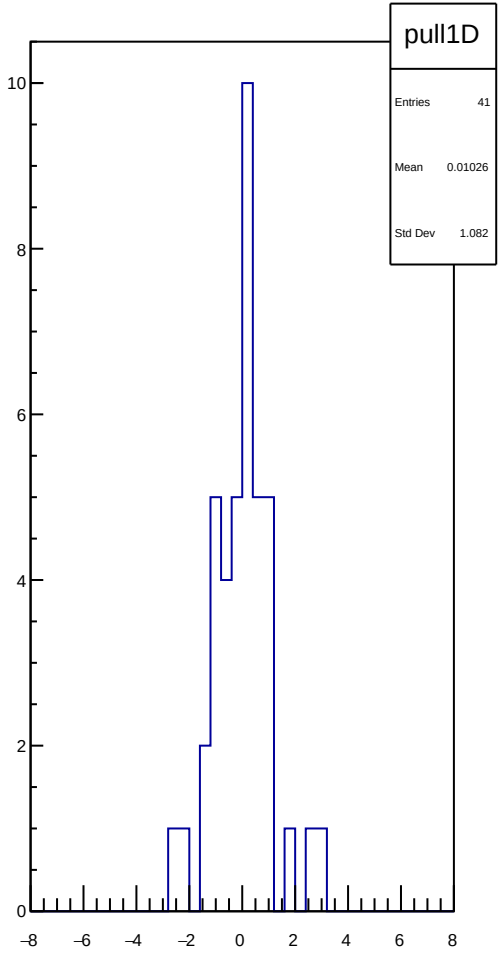

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.039e+04 / 40
p0 48.39 ± 0.05573
90
80
70
60
50
40
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

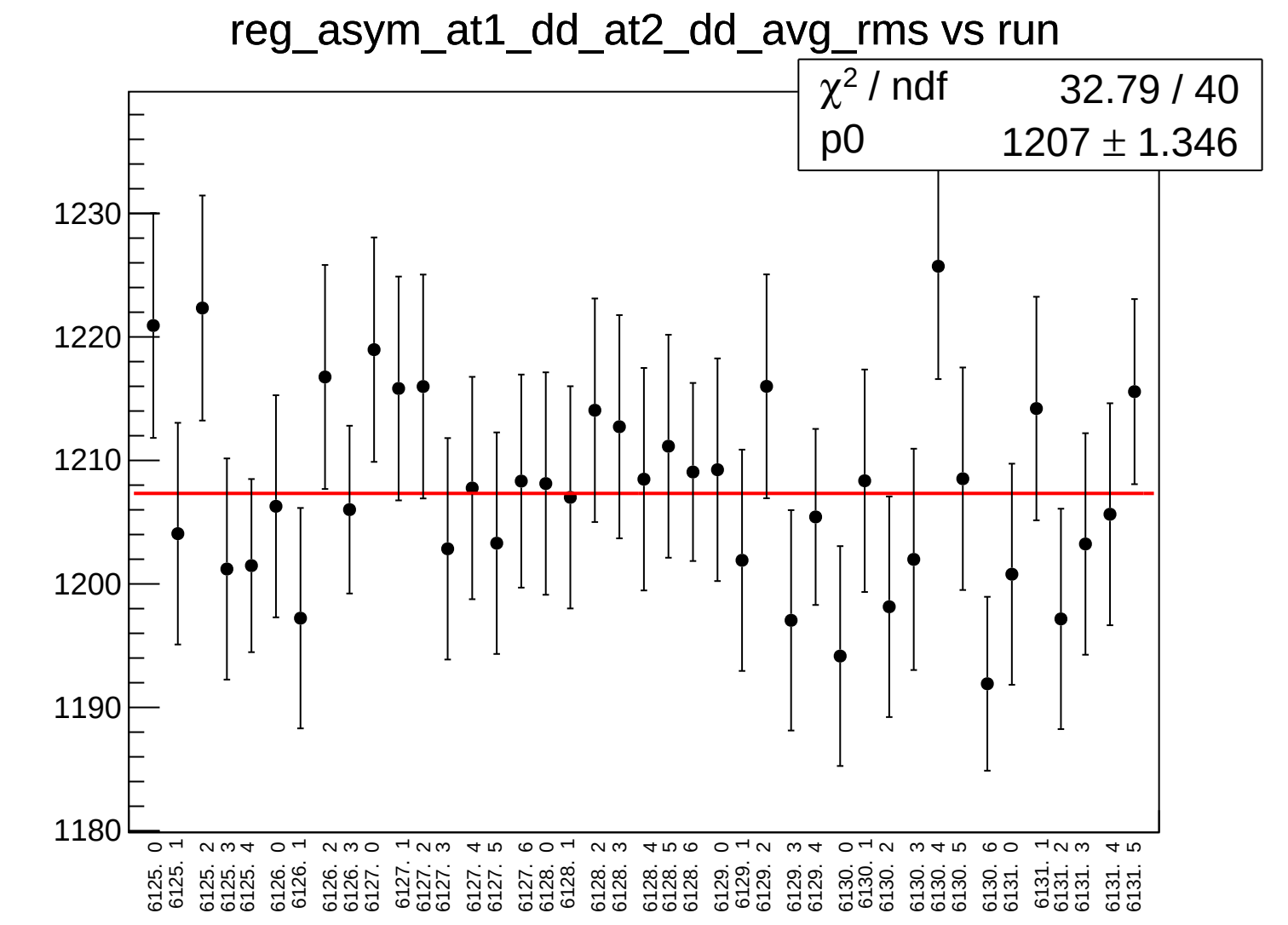

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 41.11 / 40
p0 4.7e−16 ± 3.5e−14
pull
Entries 41
Mean 12.5
Std Dev 0

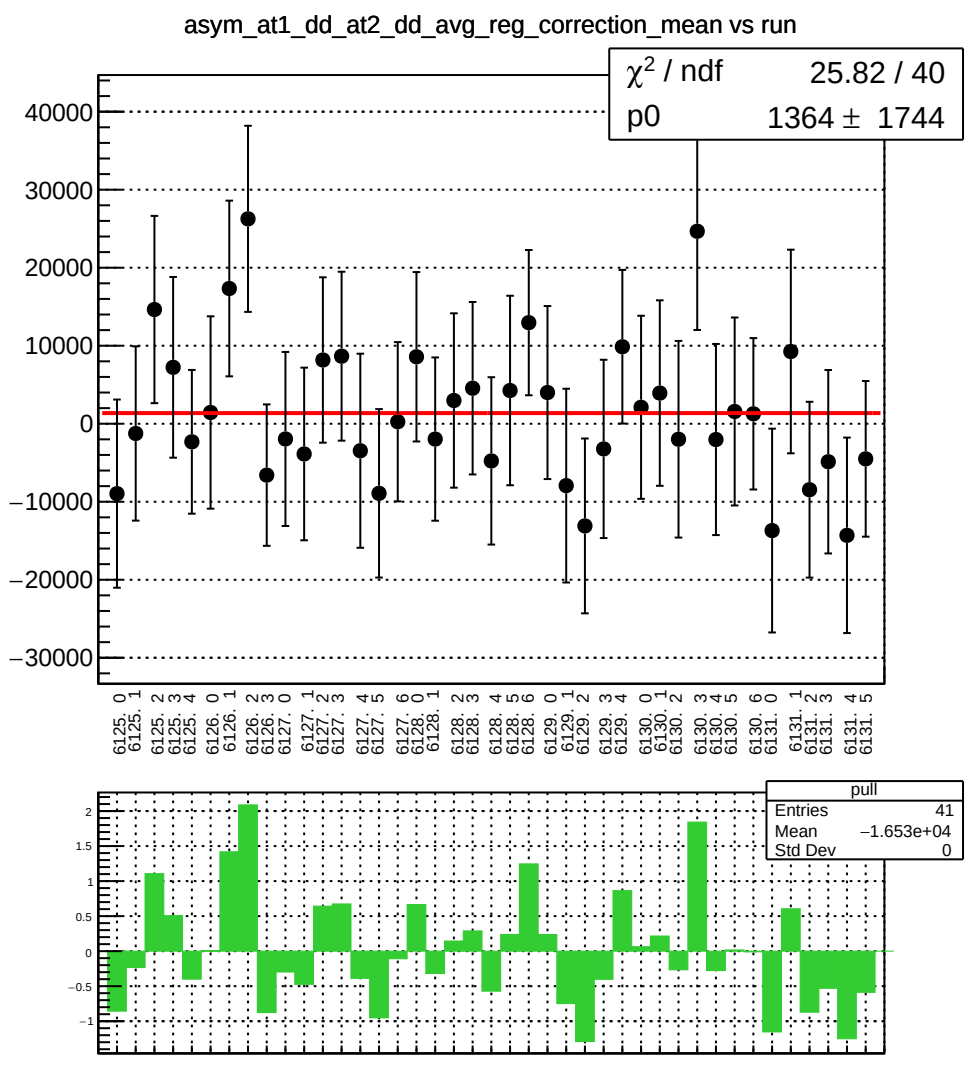

pull1D
Entries 41
Mean 0.05934
Std Dev 0.9995

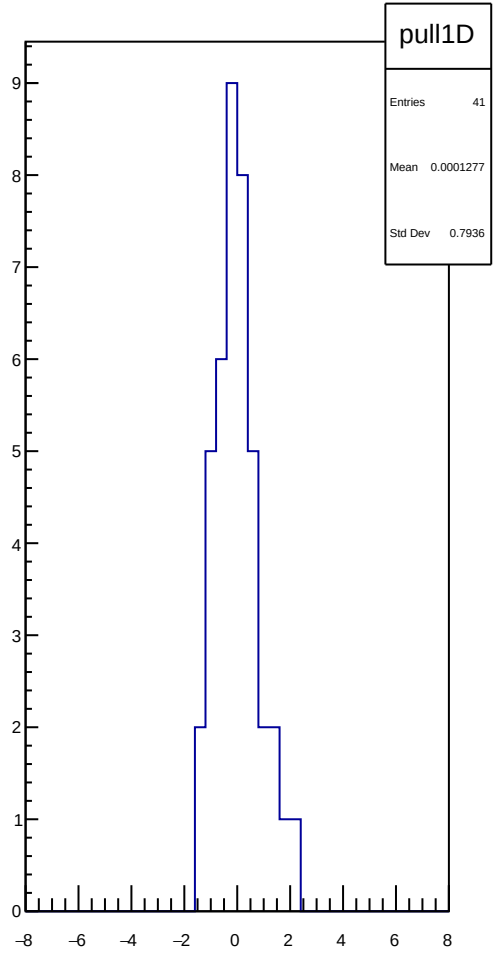

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.362e+05 / 40
p0 1.693e−11 ± 2.475e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

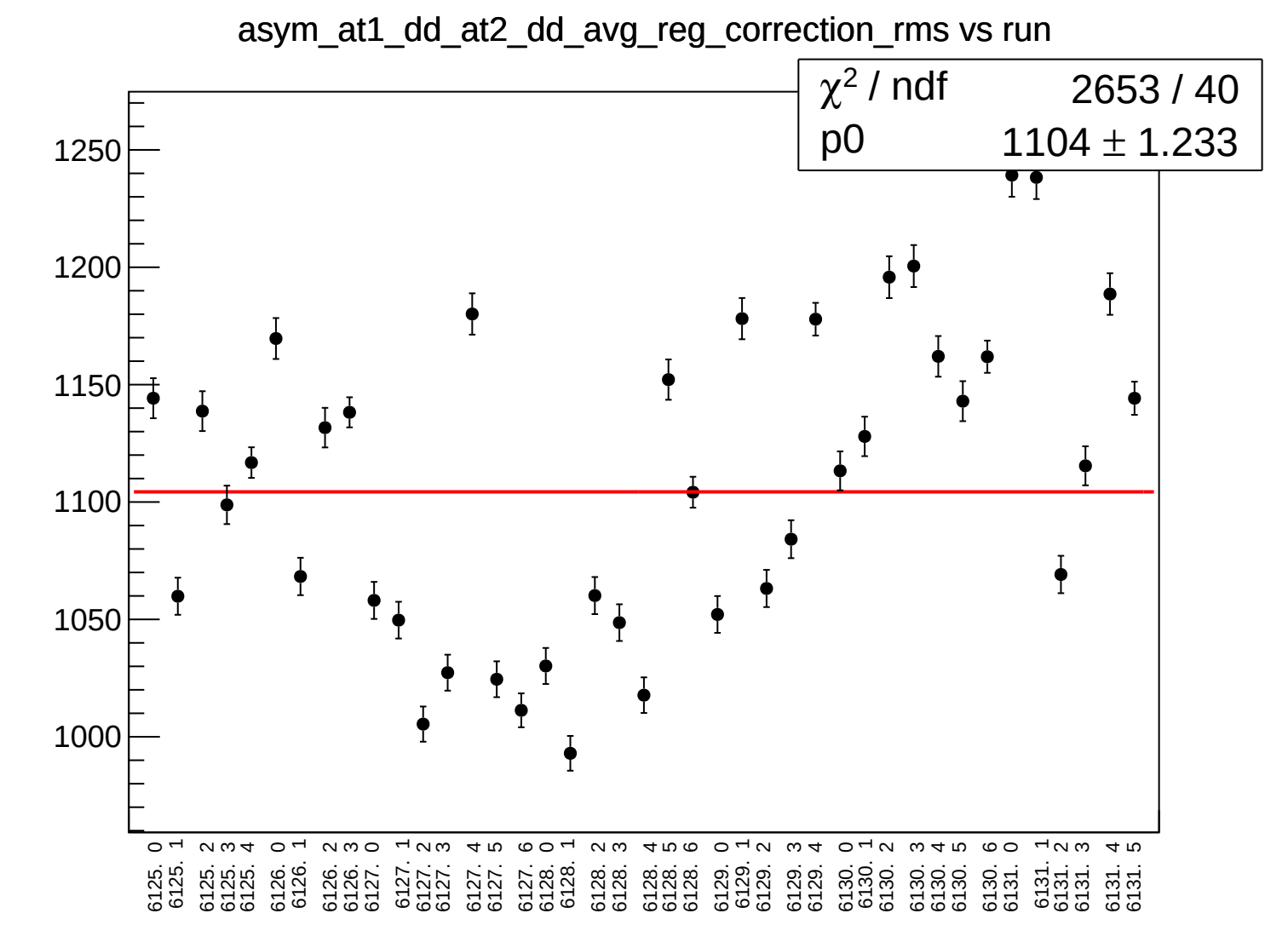

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 48.02 / 40
p0 19.29 ± 1904
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 218.6
Std Dev 0
3
2
1
0
−1
−2

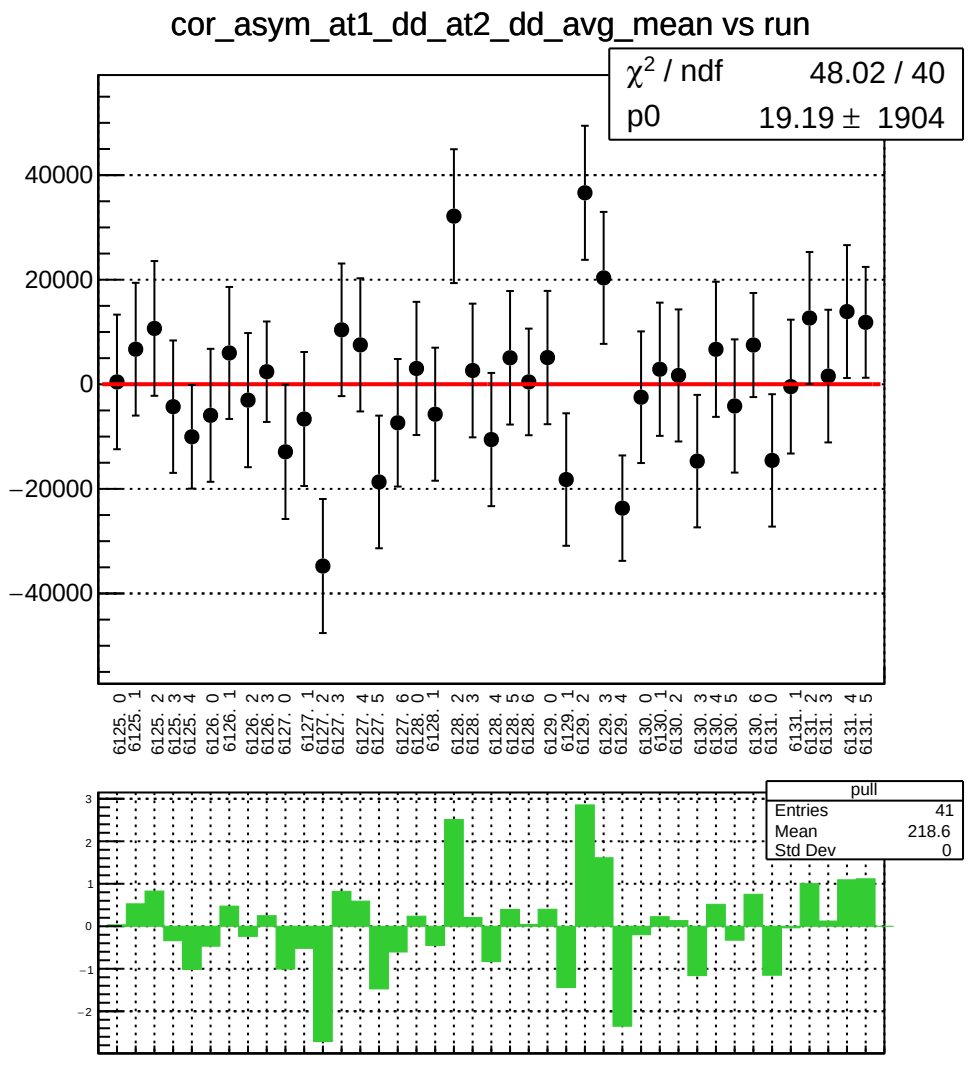

pull1D
Entries 41
Mean 0.01026
Std Dev 1.082
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

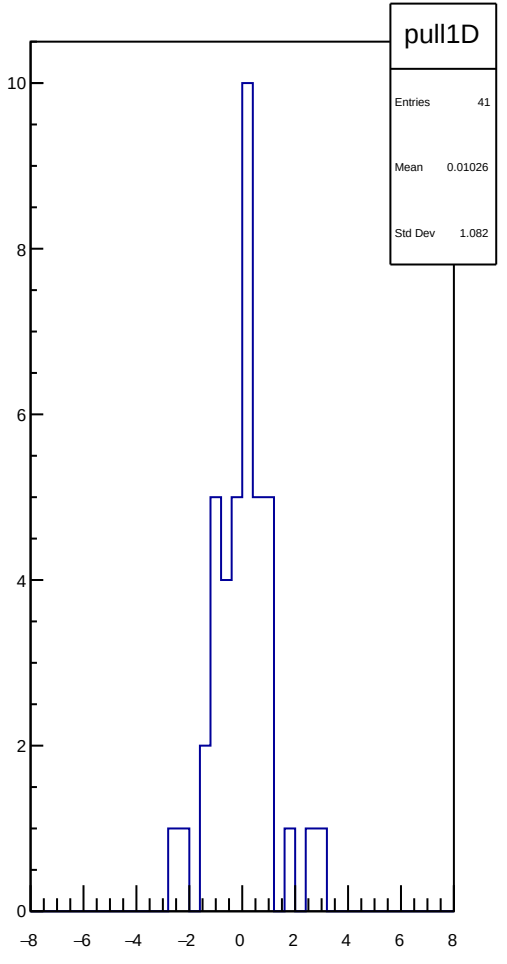

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 32.79 / 40
p0 1207 ± 1.346
1230
1220
1210
1200
1190
1180
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

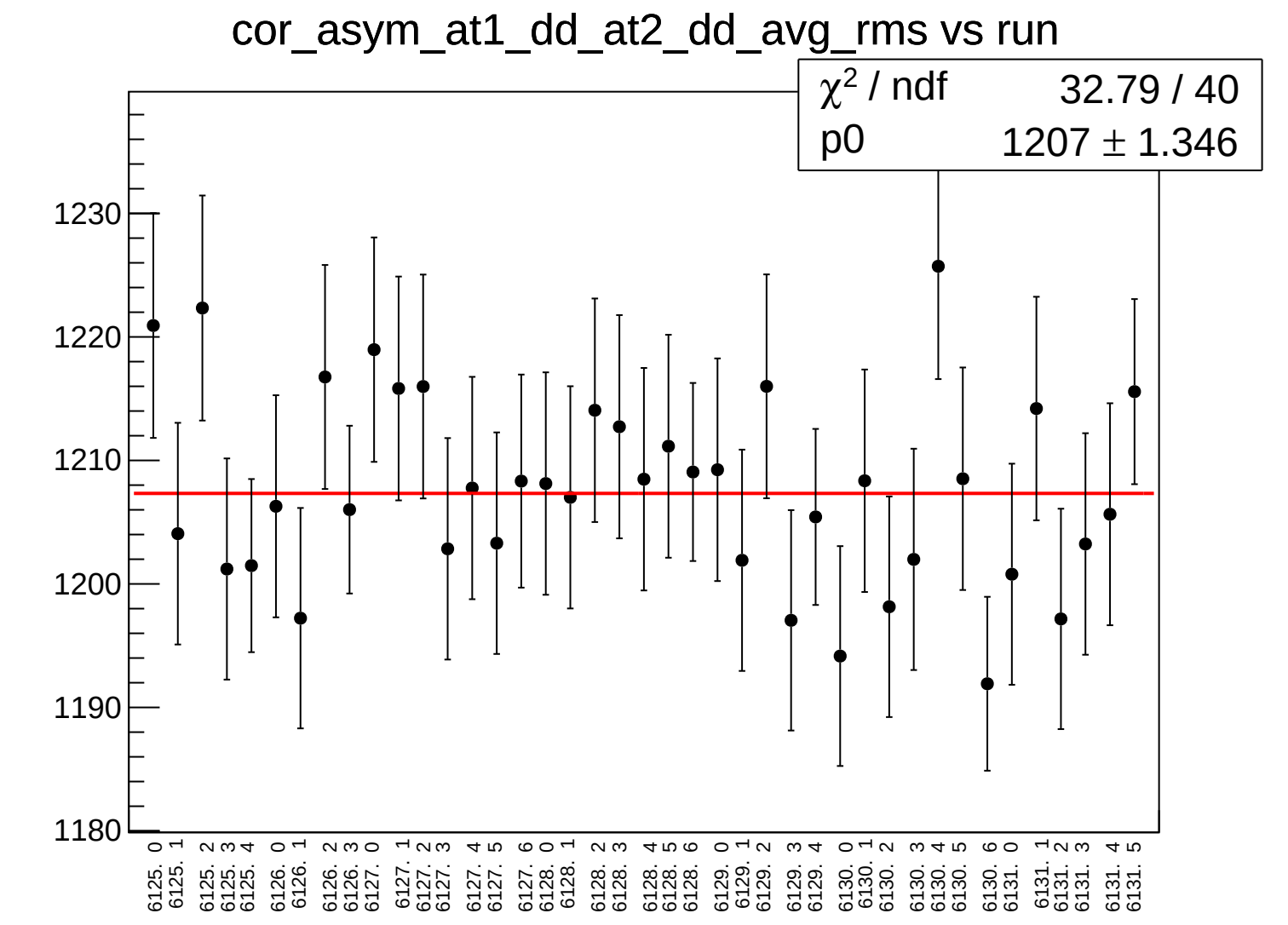

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 25.82 / 40
p0 1364 ± 1744
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1.653e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

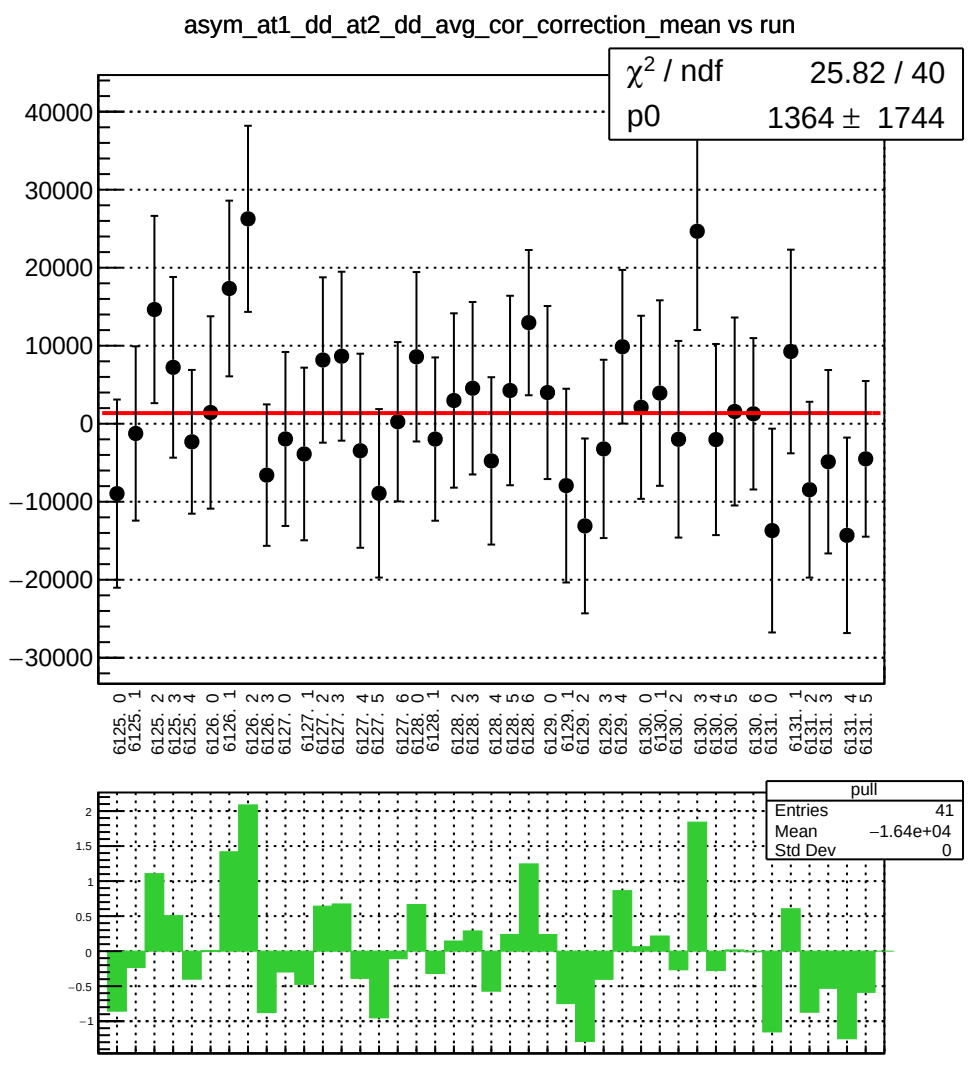

pull1D
Entries 41
Mean 0.0001277
Std Dev 0.7936
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

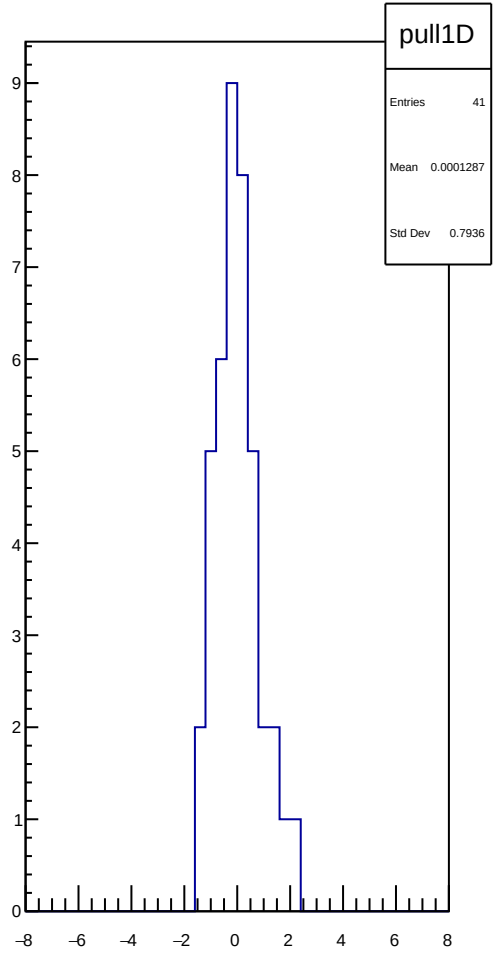

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 2653 / 40
p0 1104 ± 1.233
1250
1200
1150
1100
1050
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

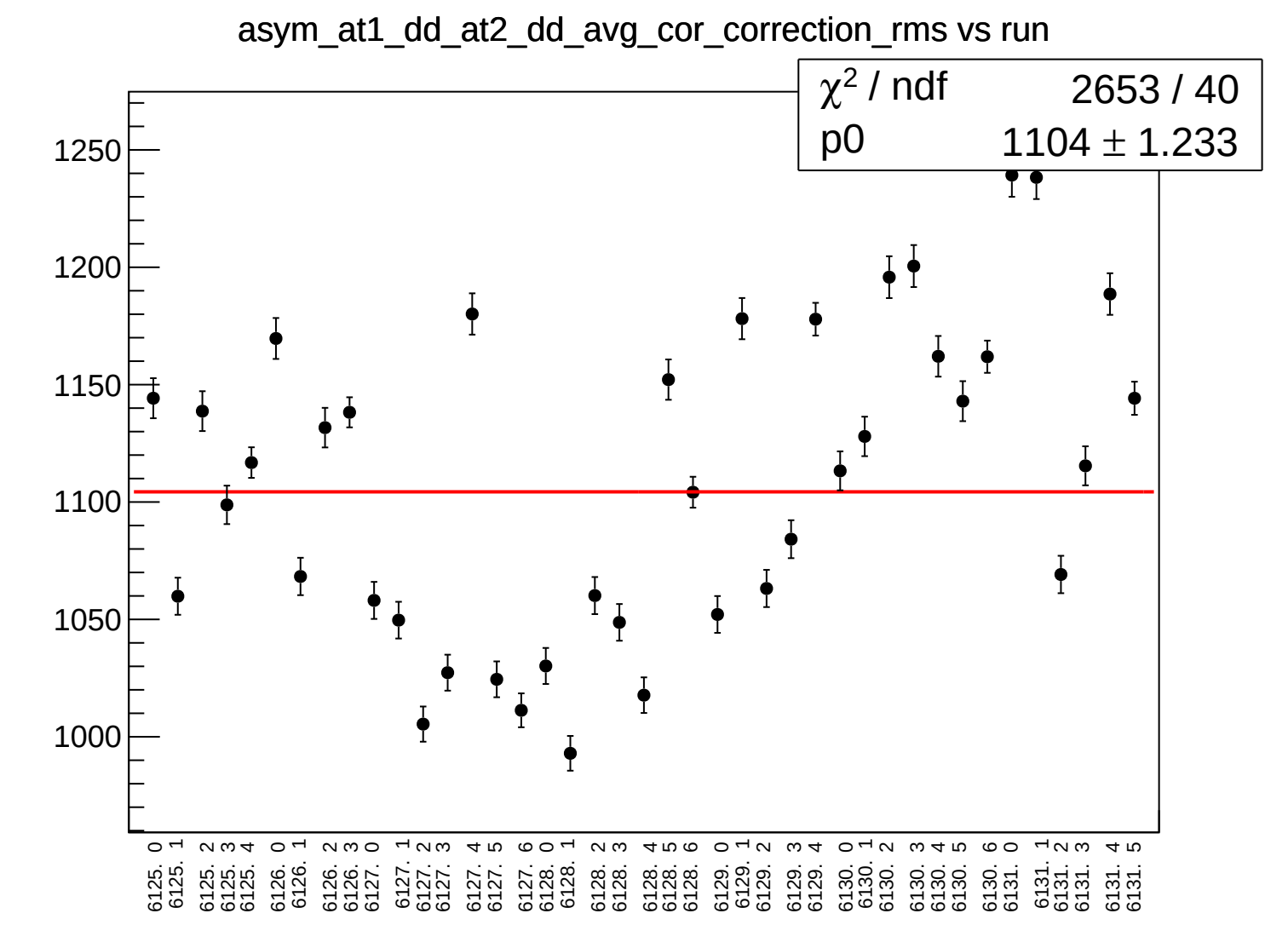

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 48.02 / 40
p0 19.19 ± 1904
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 218.6
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 41
Mean 0.01026
Std Dev 1.082
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 32.79 / 40
p0 1207 ± 1.346
1230
1220
1210
1200
1190
1180
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 25.82 / 40
p0 1364 ± 1744
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1.64e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 41
Mean 0.0001287
Std Dev 0.7936
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_cor_correction_rms vs run
χ² / ndf 2653 / 40
p0 1104 ± 1.233
1250
1200
1150
1100
1050
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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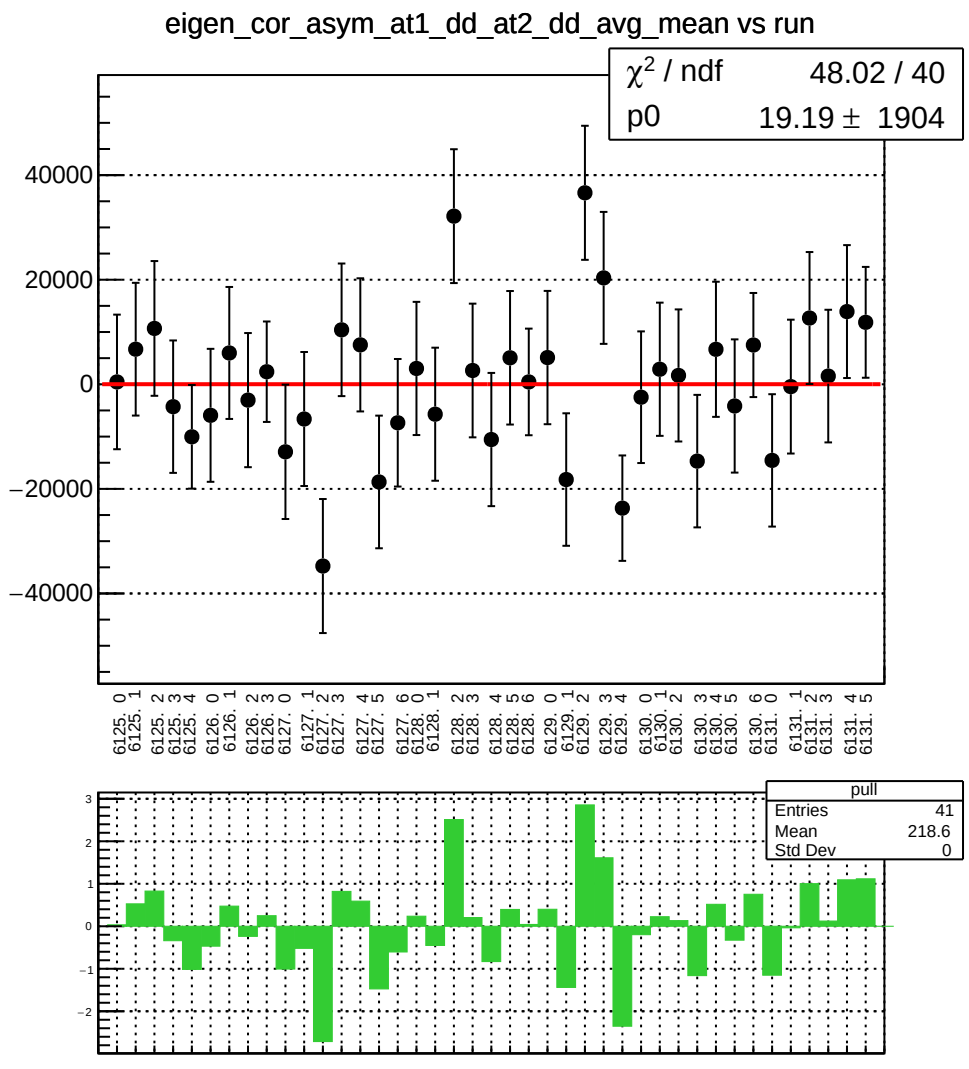
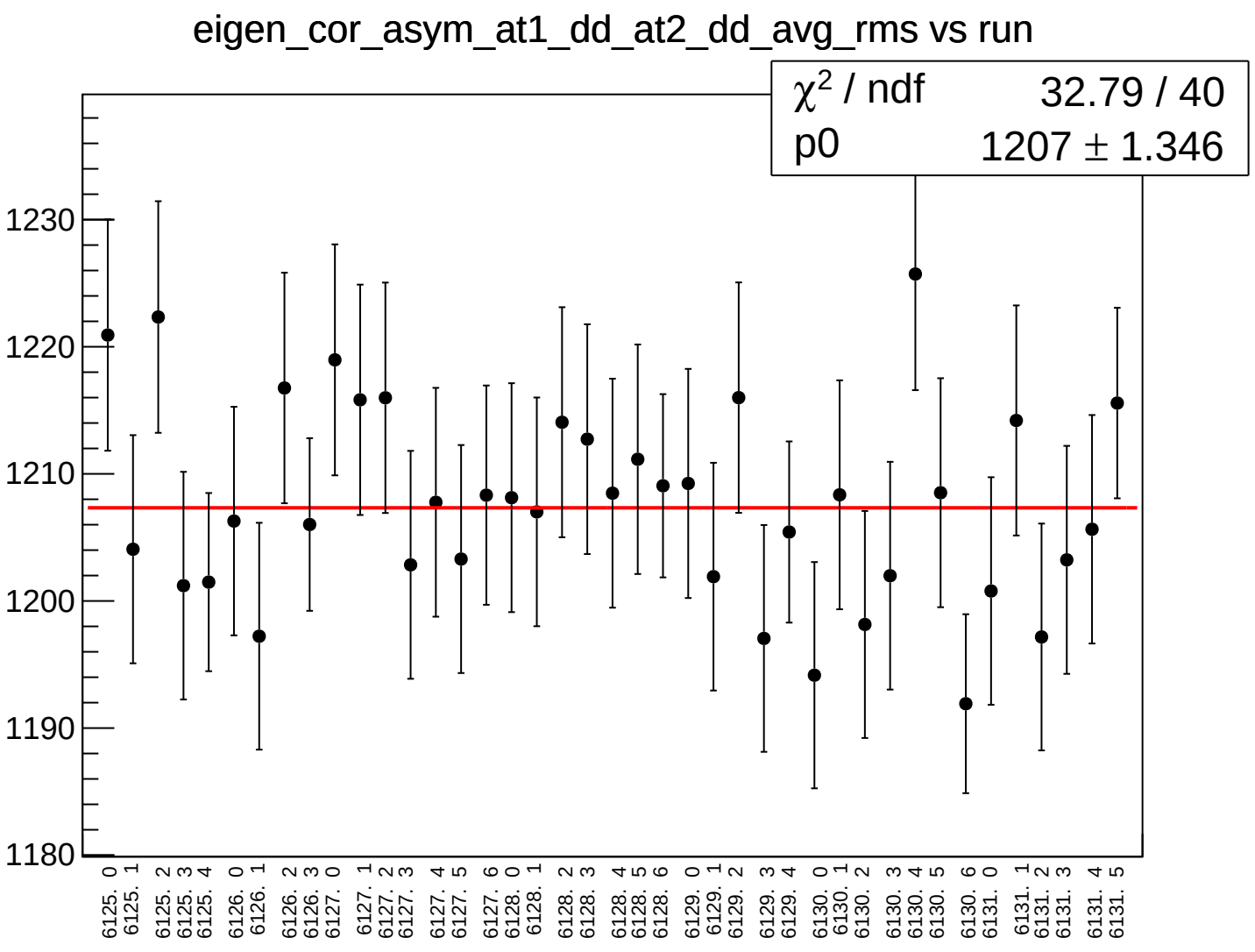
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 48.02 / 40
p0 19.19 ± 1904
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 218.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01026
Std Dev 1.082
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 32.79 / 40
p0 1207 ± 1.346
1230
1220
1210
1200
1190
1180
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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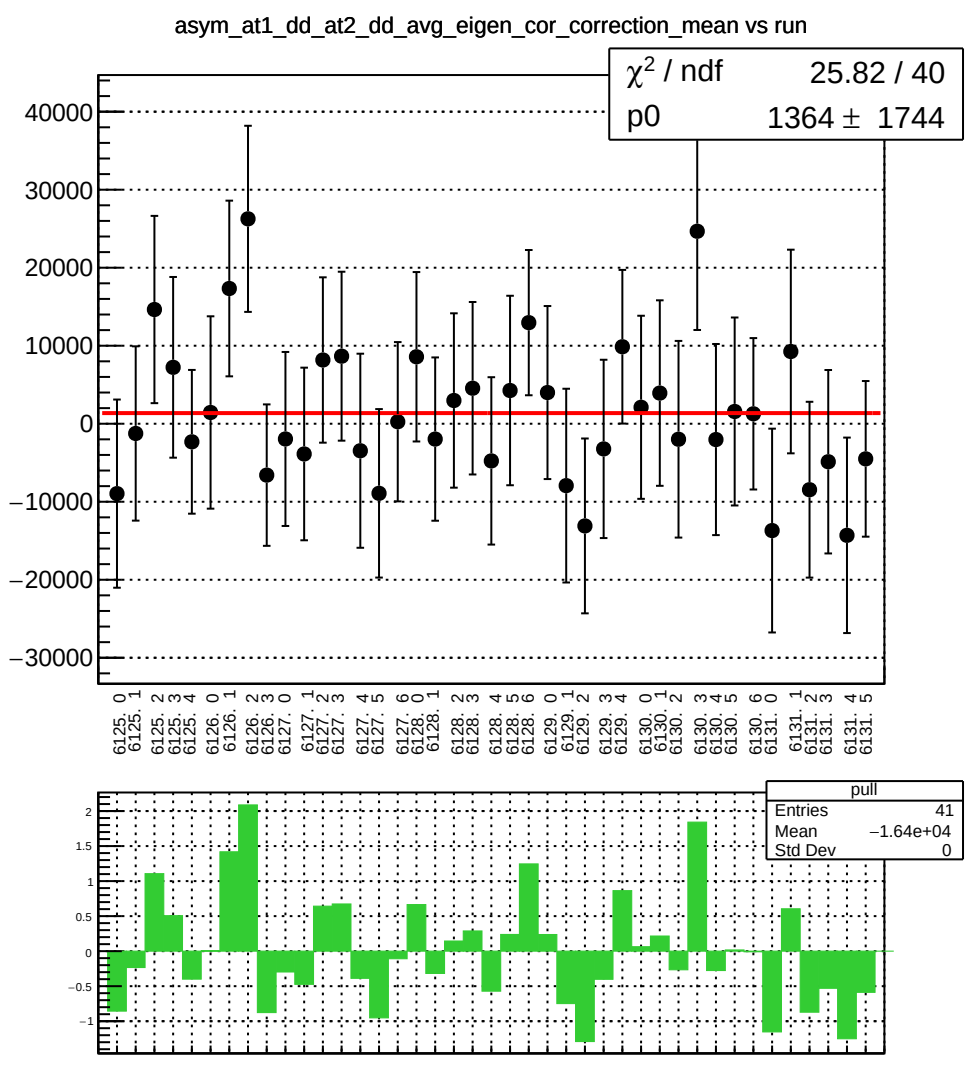
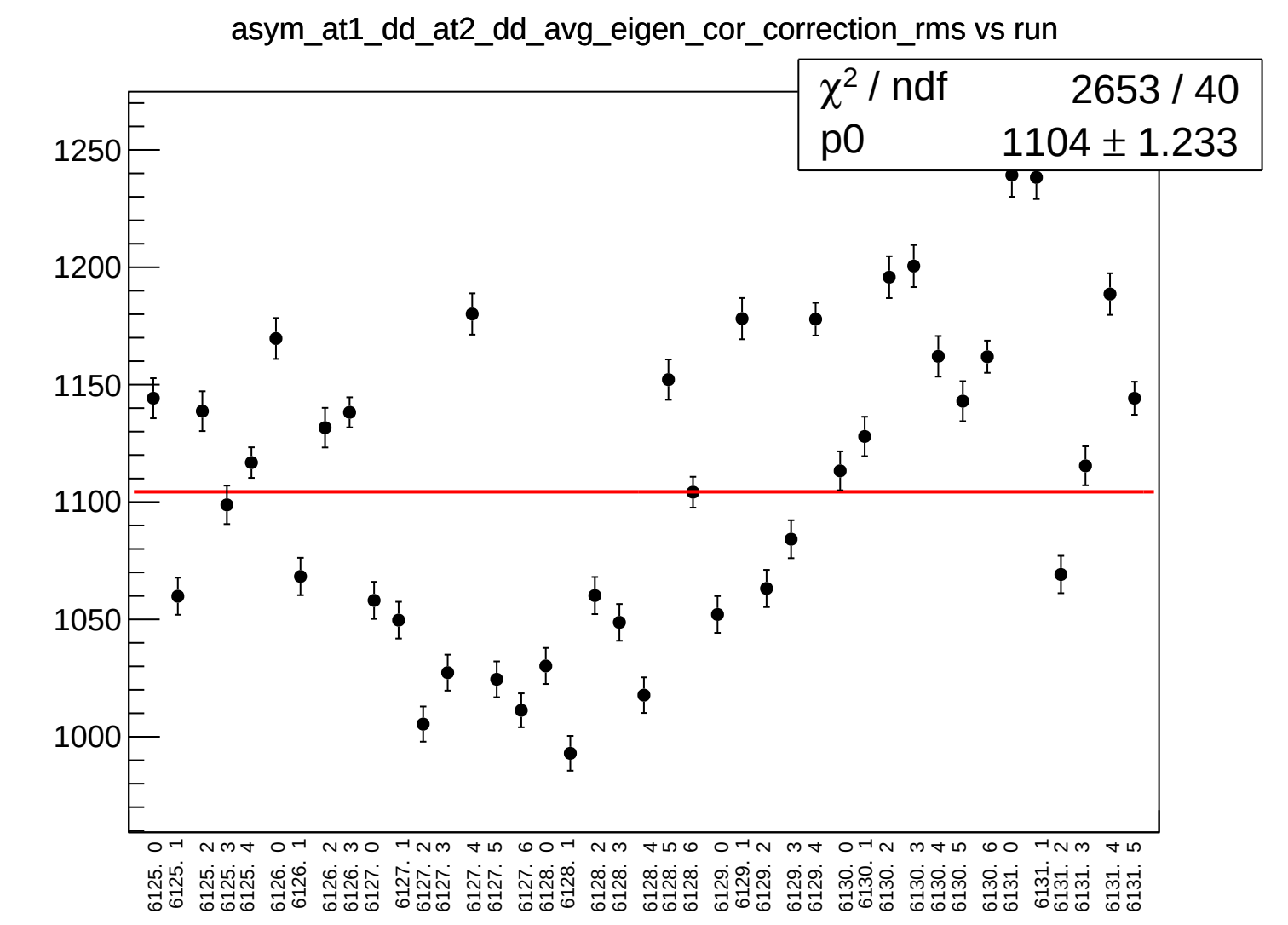
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 25.82 / 40
p0 1364 ± 1744
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1.64e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.0001287
Std Dev 0.7936
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_eigen_cor_correction_rms vs run
χ² / ndf 2653 / 40
p0 1104 ± 1.233
1250
1200
1150
1100
1050
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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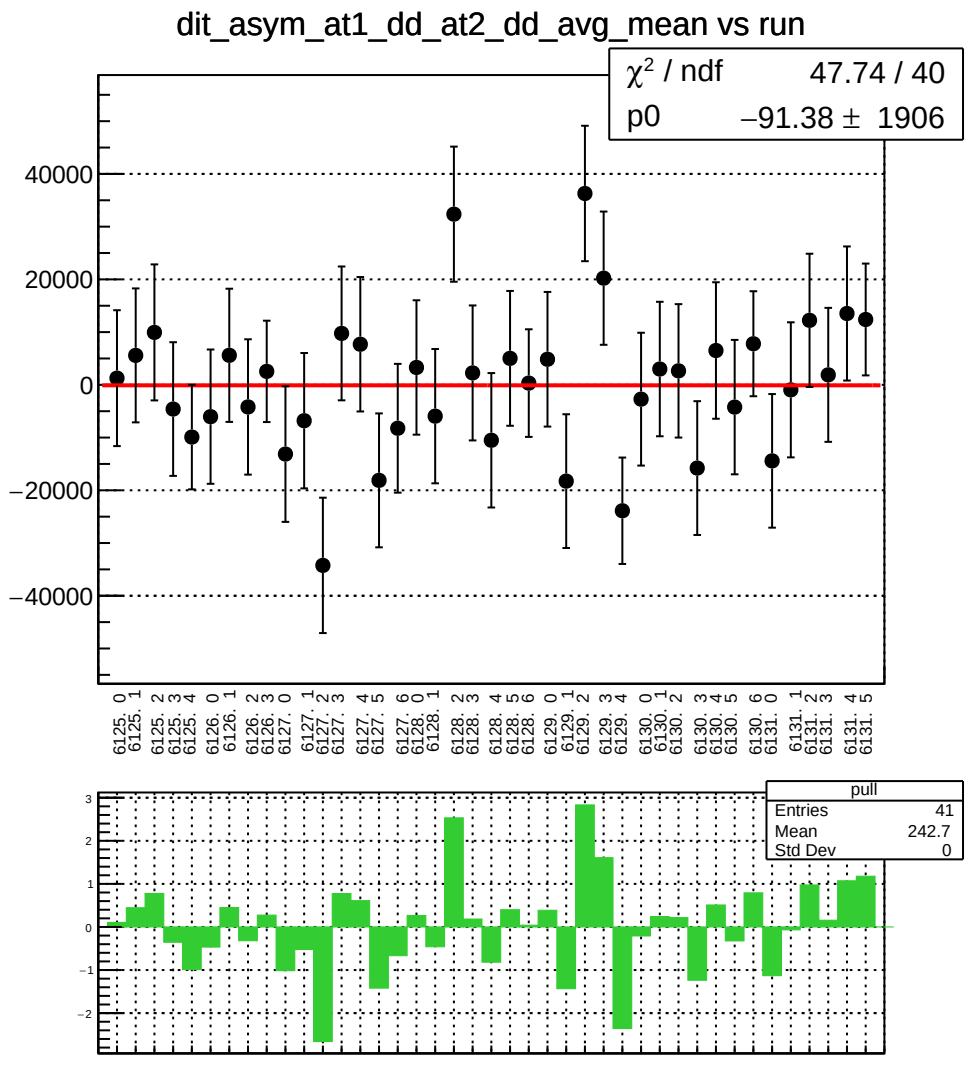
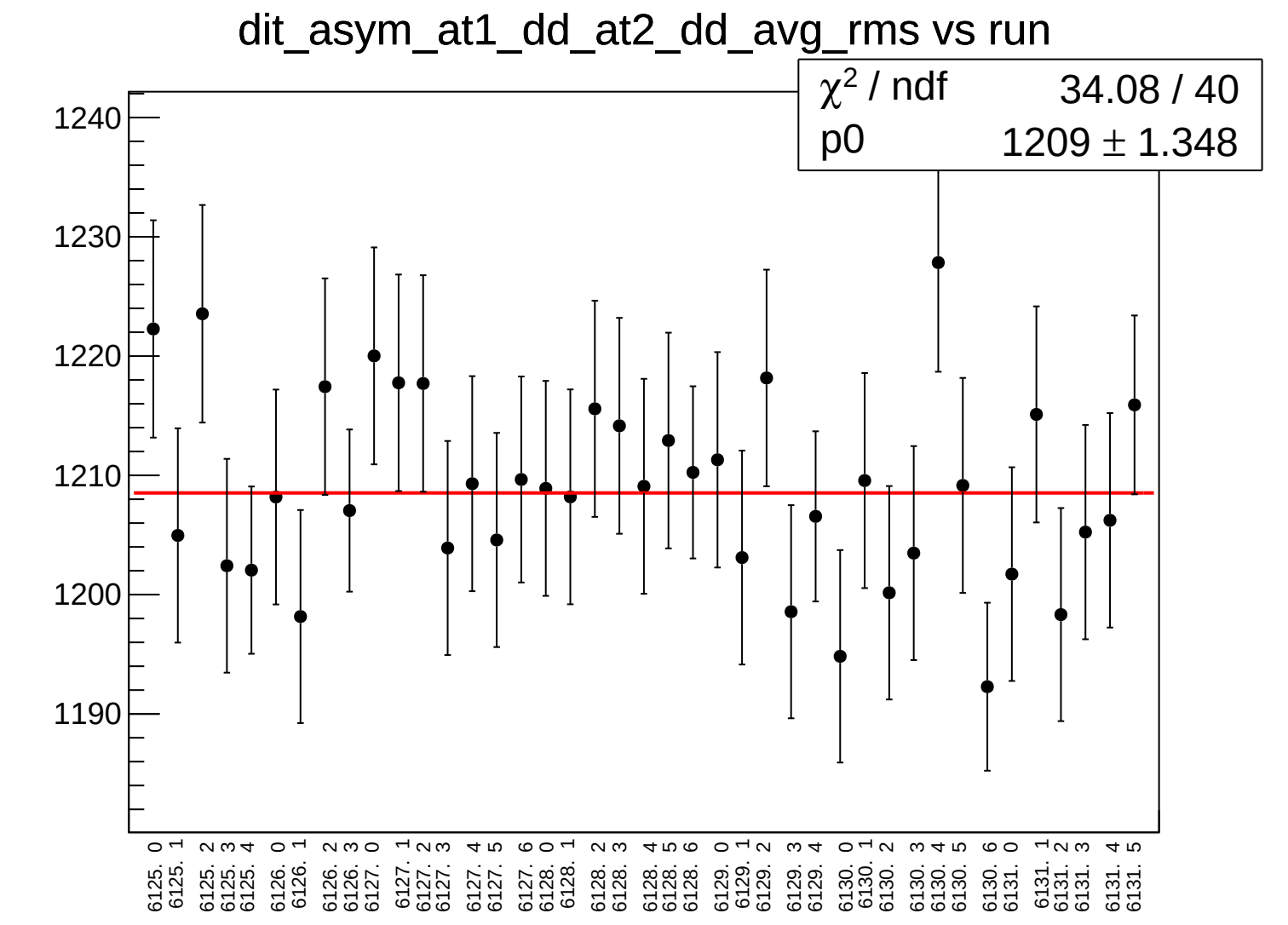
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 47.74 / 40
p0 −91.38 ± 1906
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 242.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.009456
Std Dev 1.079
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 34.08 / 40
p0 1209 ± 1.348
1240
1230
1220
1210
1200
1190
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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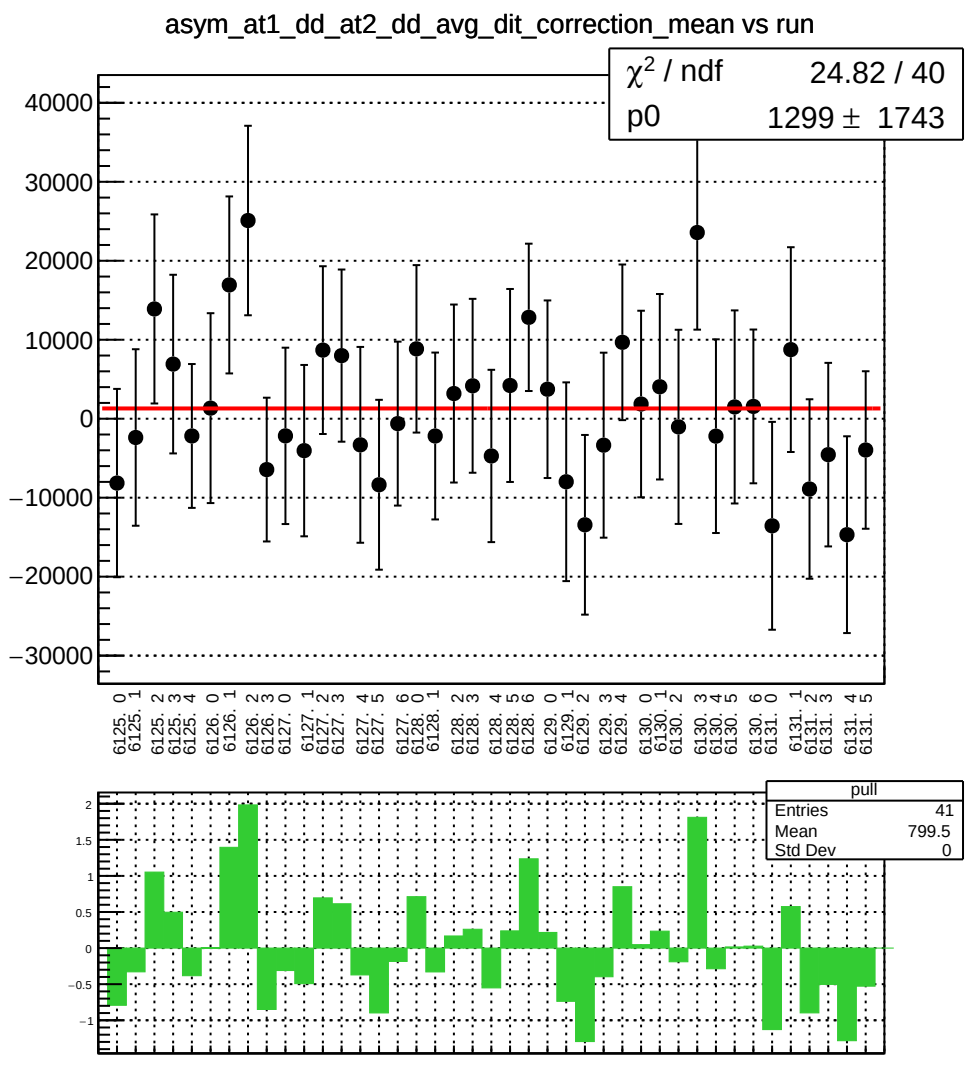
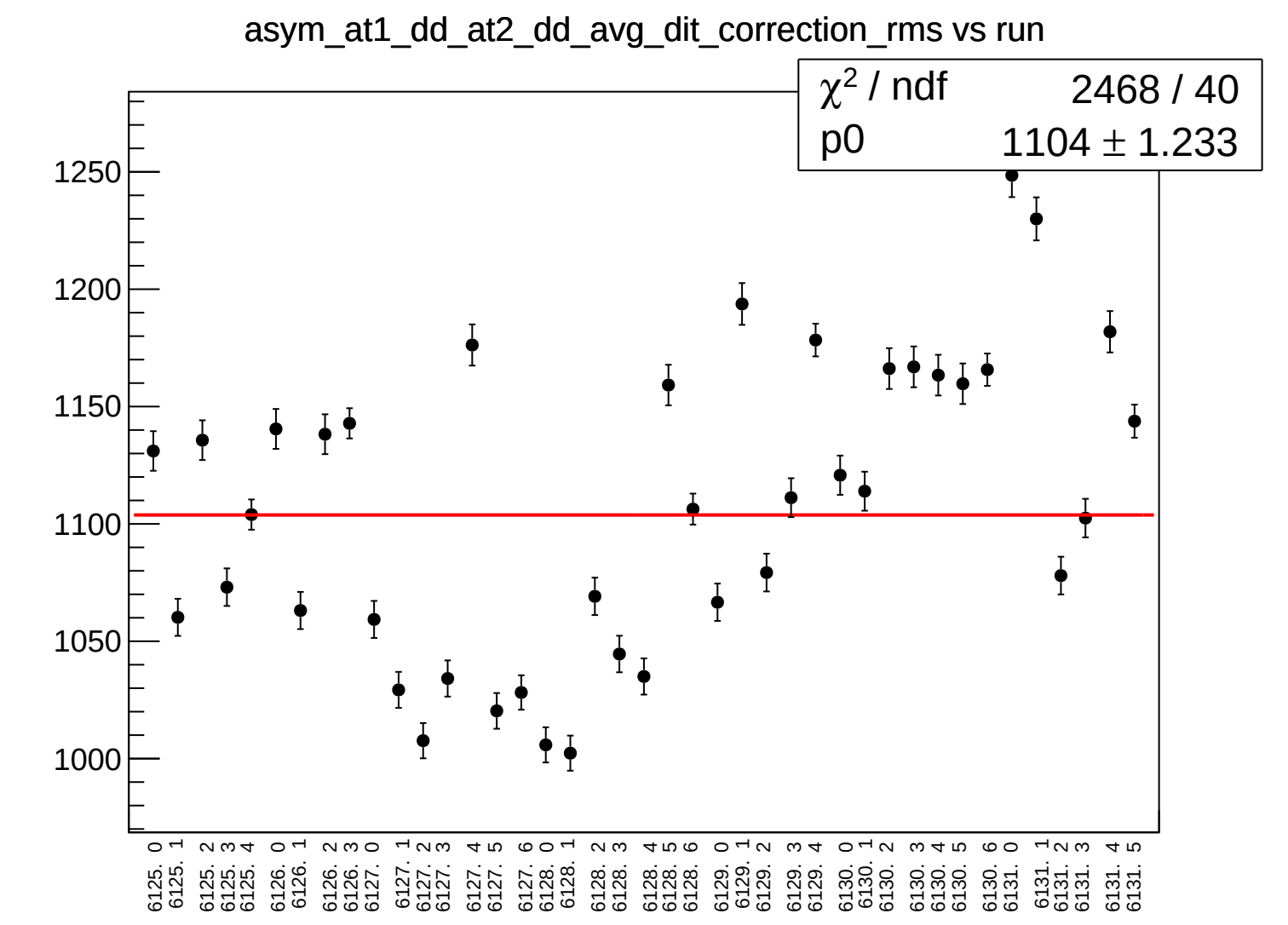
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 24.82 / 40
p0 1299 ± 1743
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 799.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.002584
Std Dev 0.778
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_dit_correction_rms vs run
χ² / ndf 2468 / 40
p0 1104 ± 1.233
1250
1200
1150
1100
1050
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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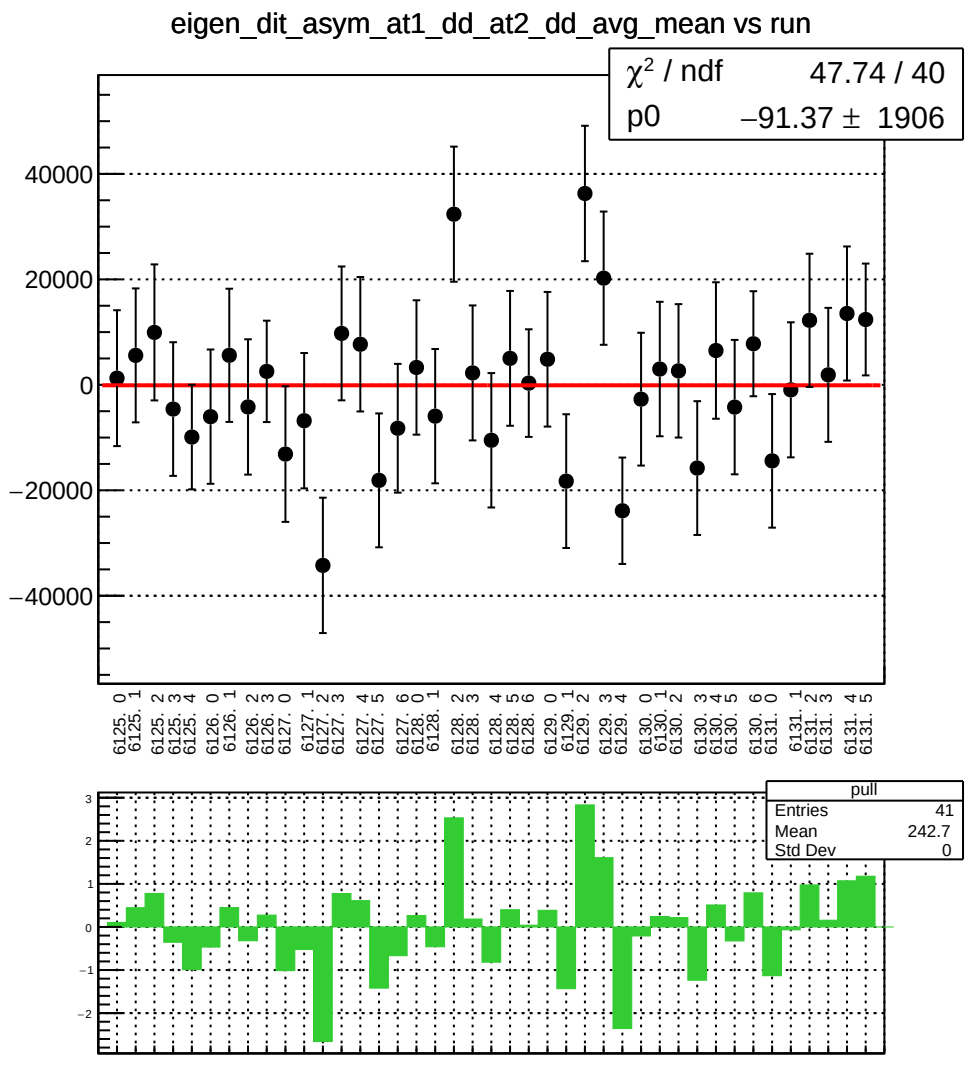
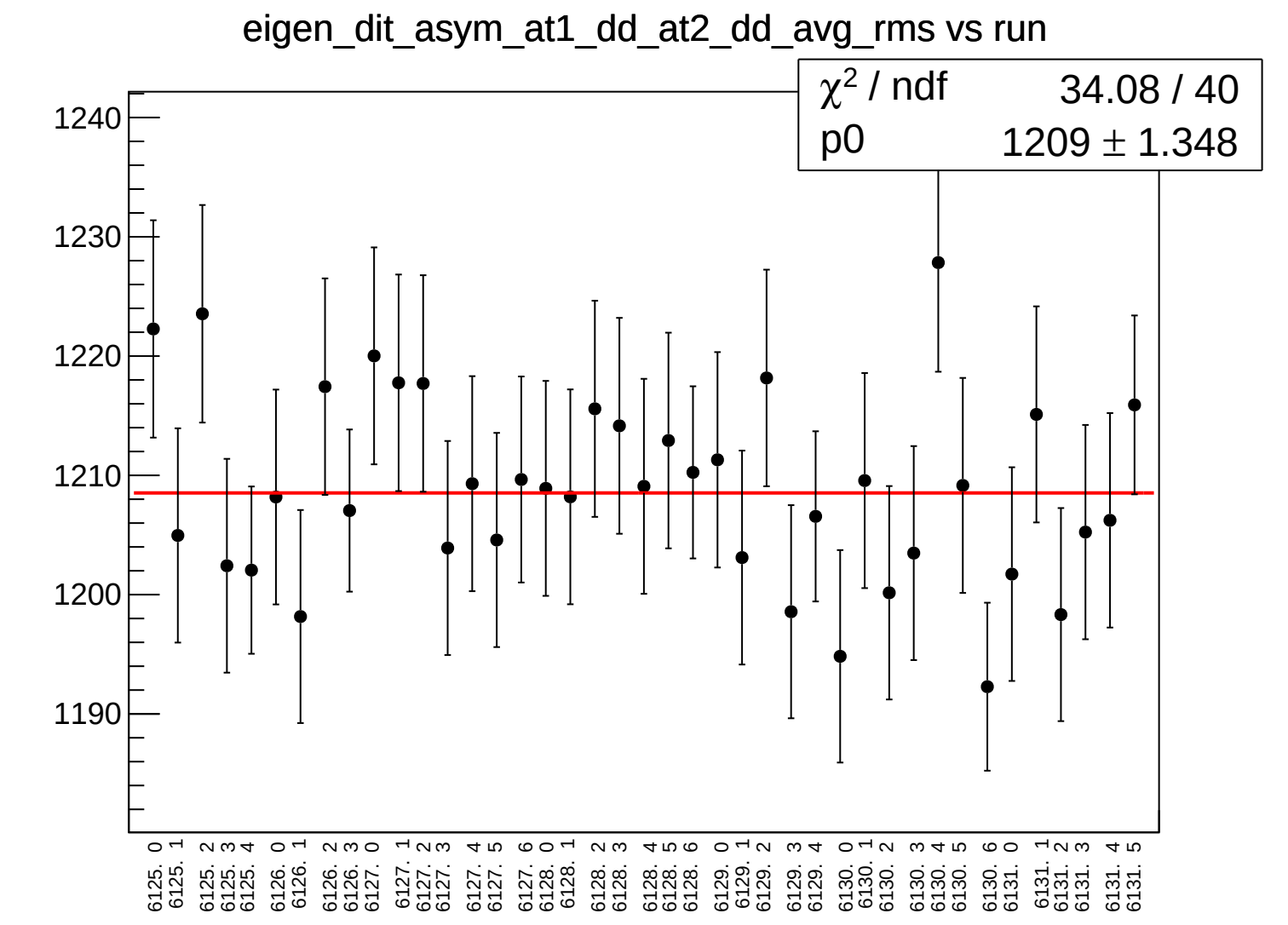
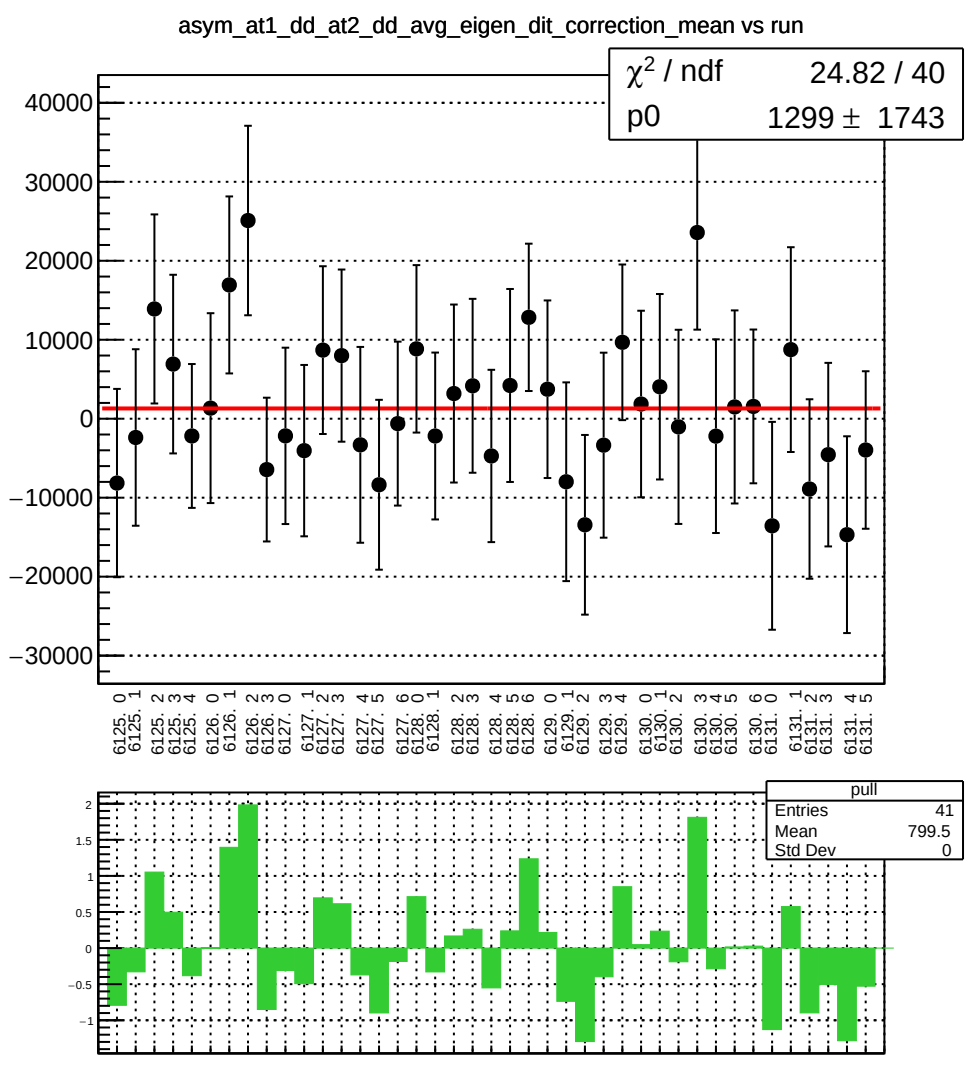
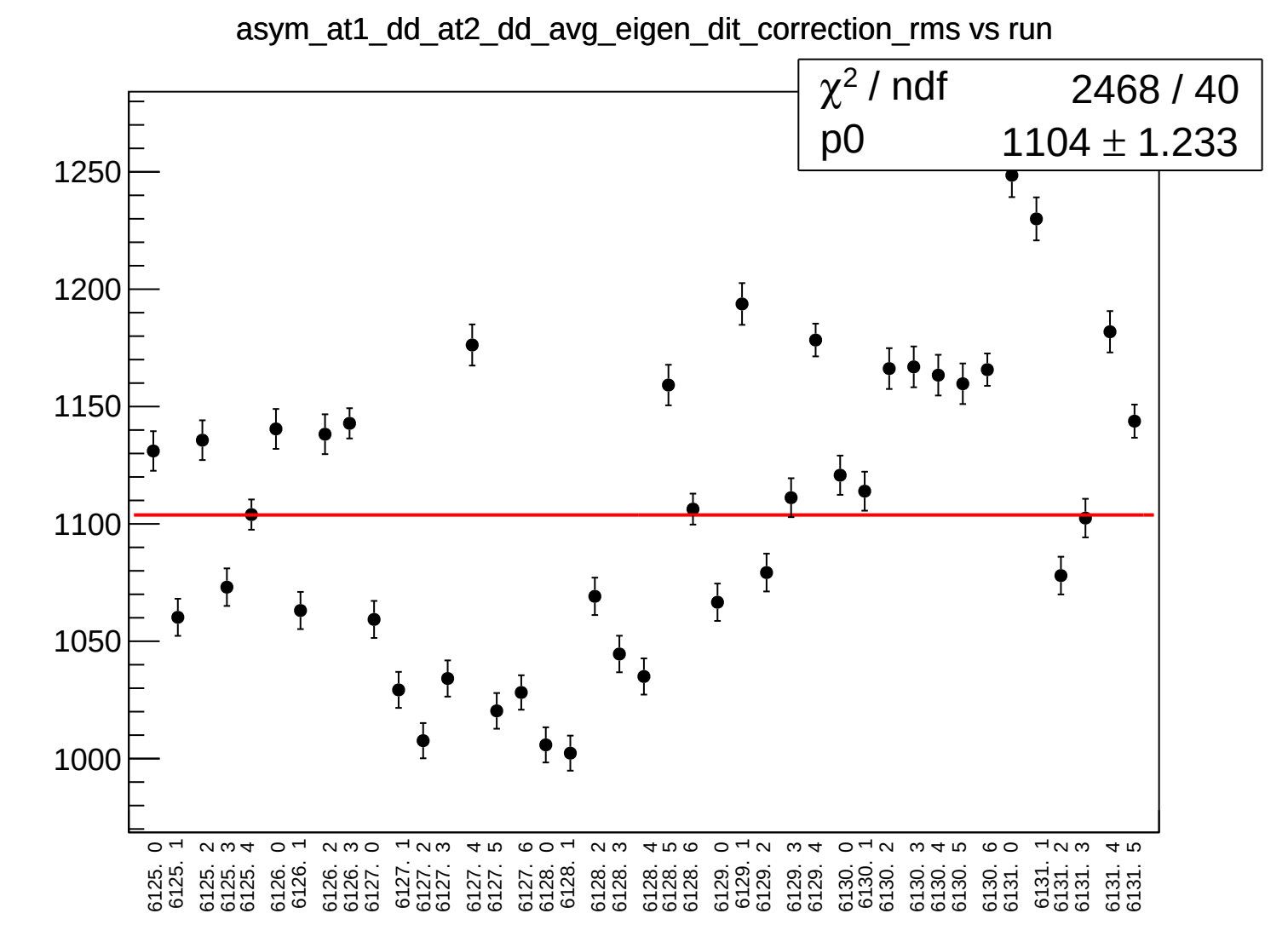
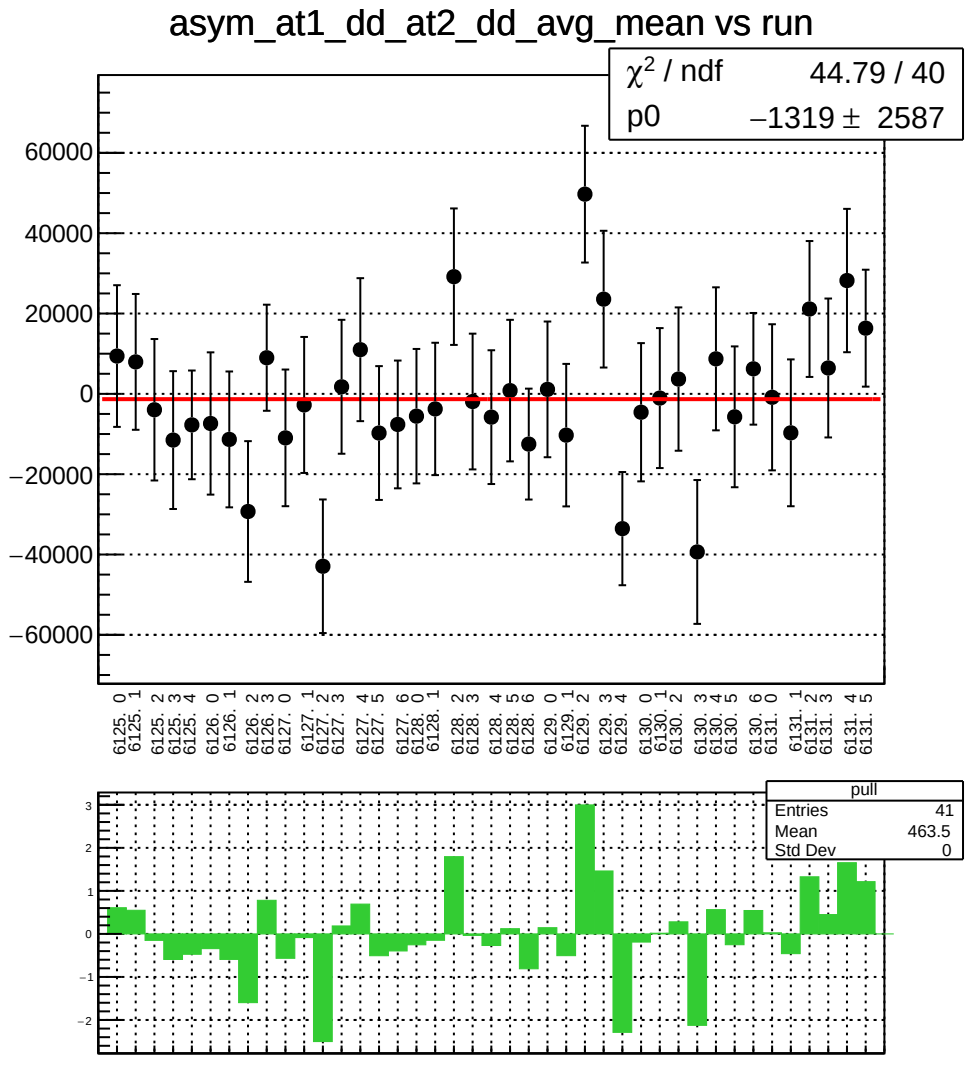
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

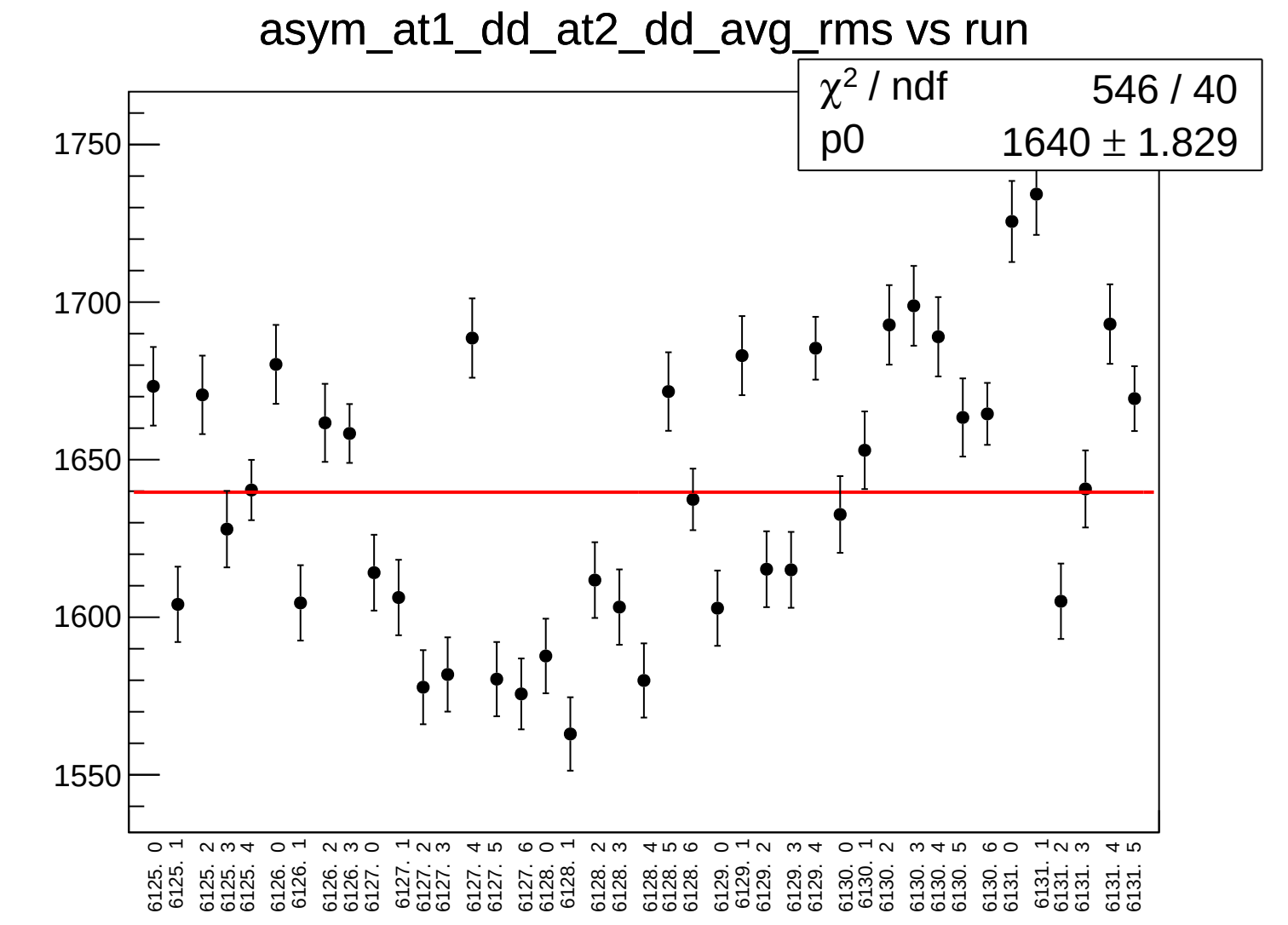

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 47.74 / 40
p0 −91.37 ± 1906
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 242.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.009456
Std Dev 1.079
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

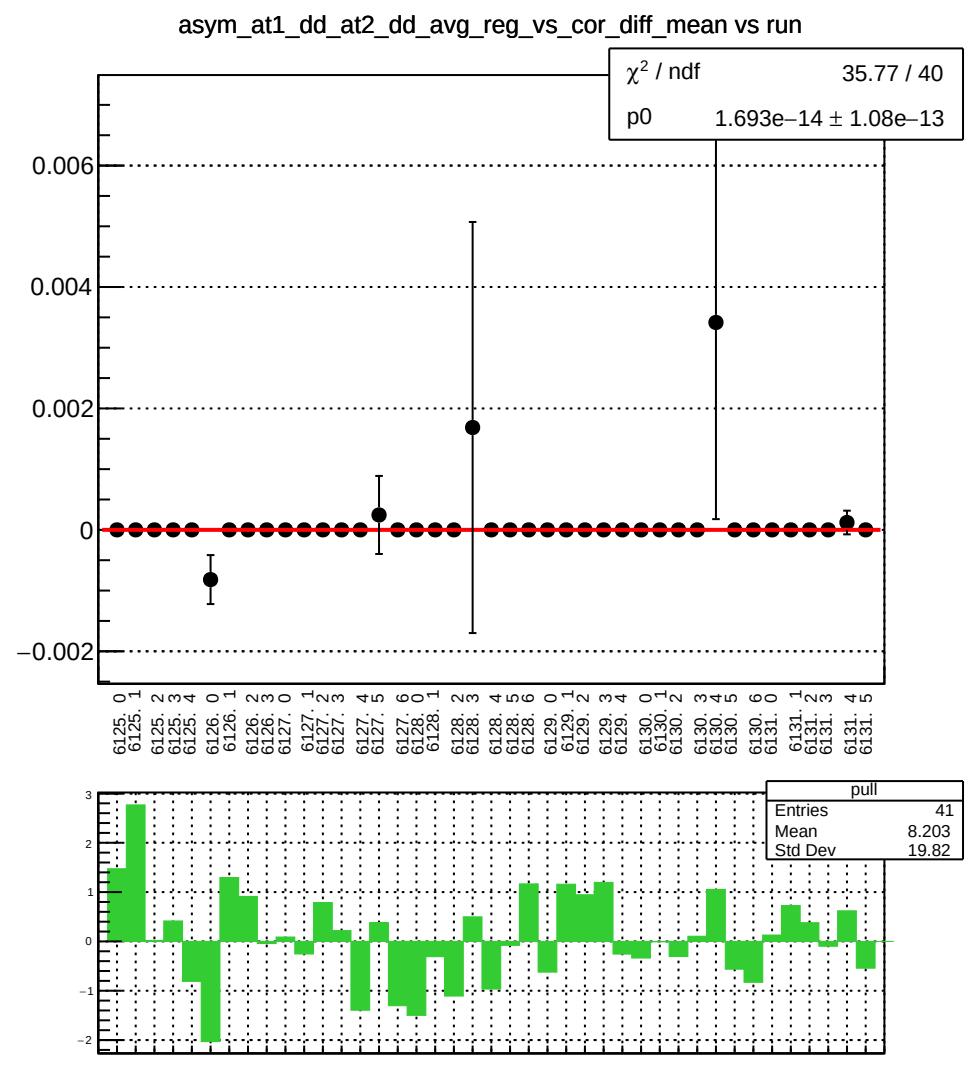

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 34.08 / 40
p0 1209 ± 1.348
1240
1230
1220
1210
1200
1190
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

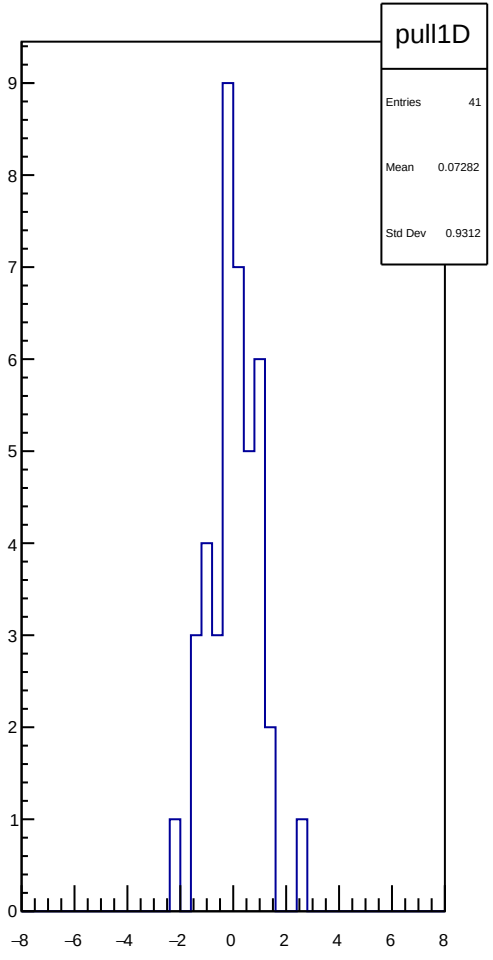

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 24.82 / 40
p0 1299 ± 1743
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 799.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.002584
Std Dev 0.778
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

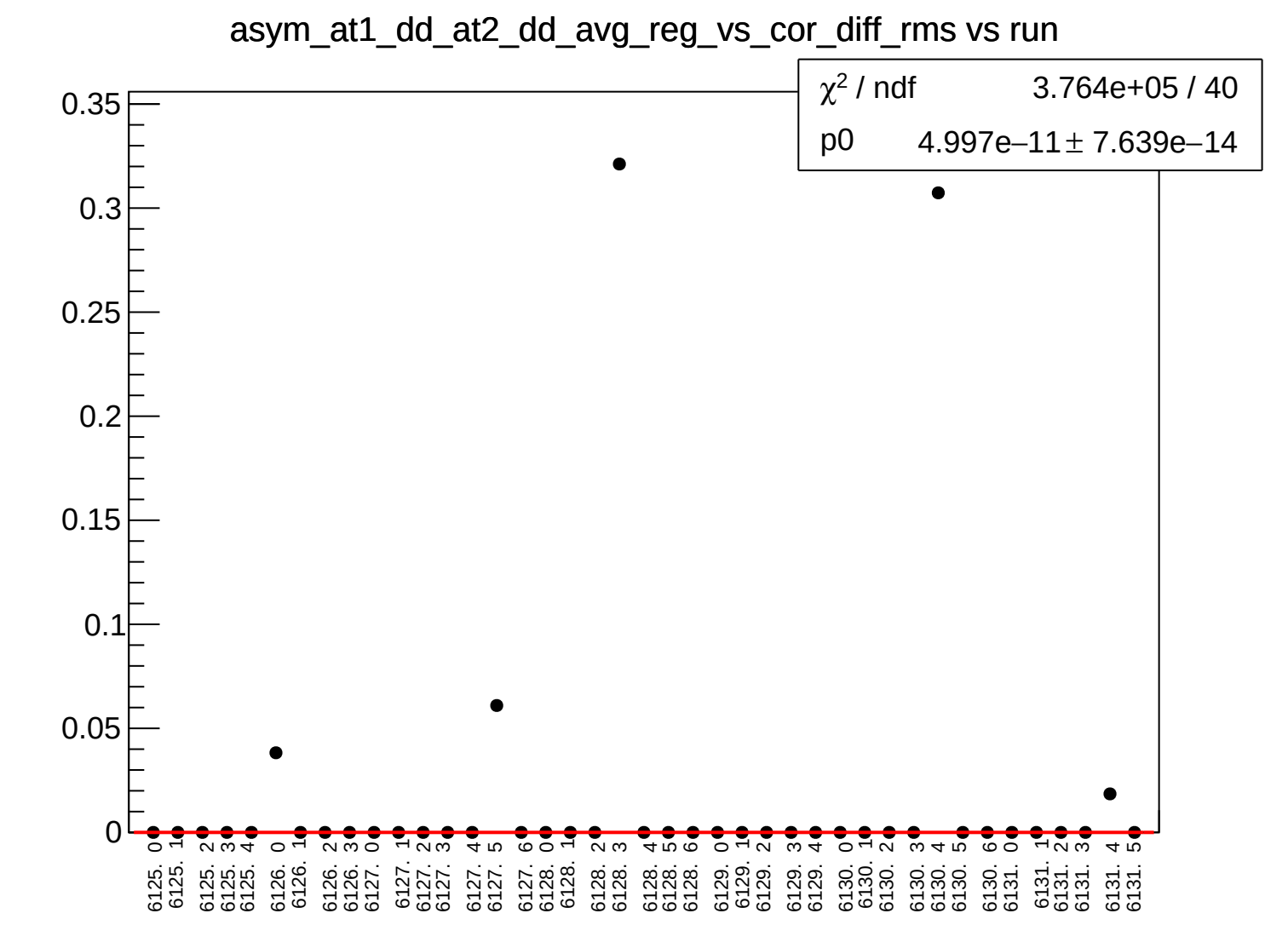

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2468 / 40
p0 1104 ± 1.233
1250
1200
1150
1100
1050
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

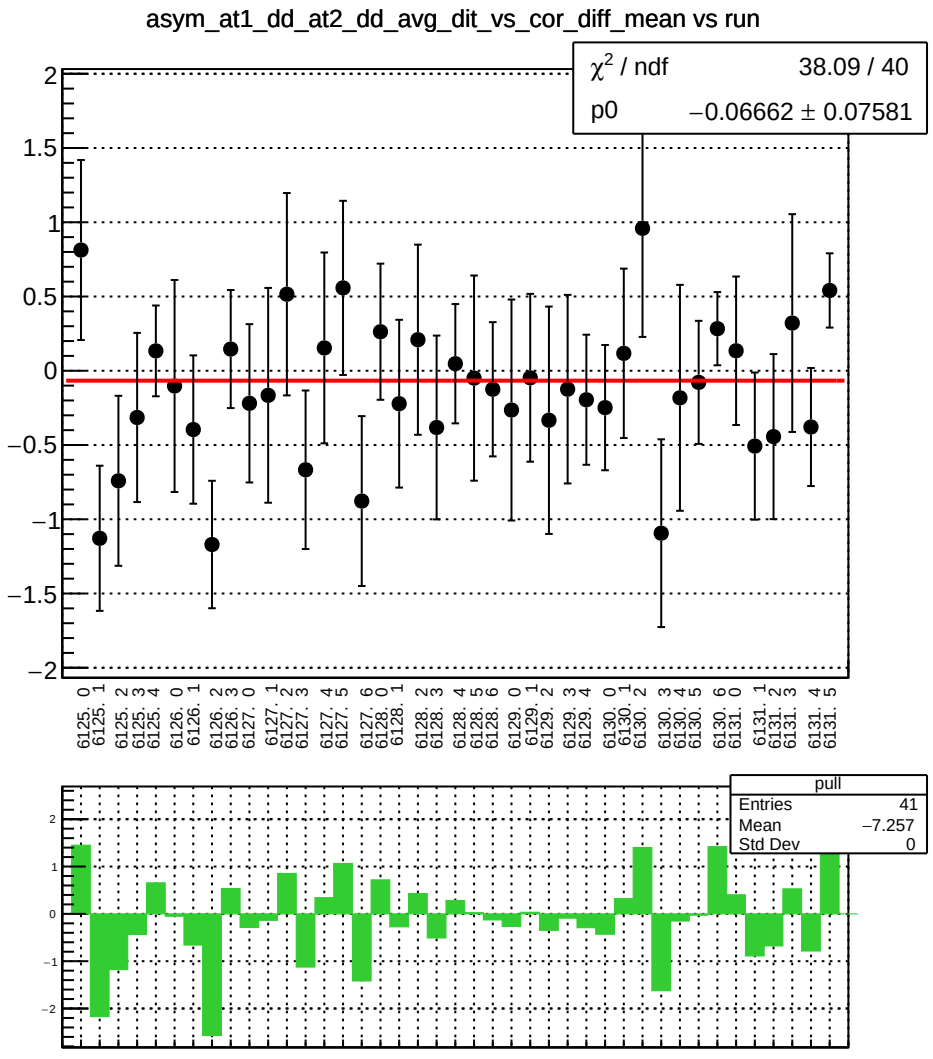

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 44.79 / 40
p0 −1319 ± 2587
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 463.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.006718
Std Dev 1.045
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

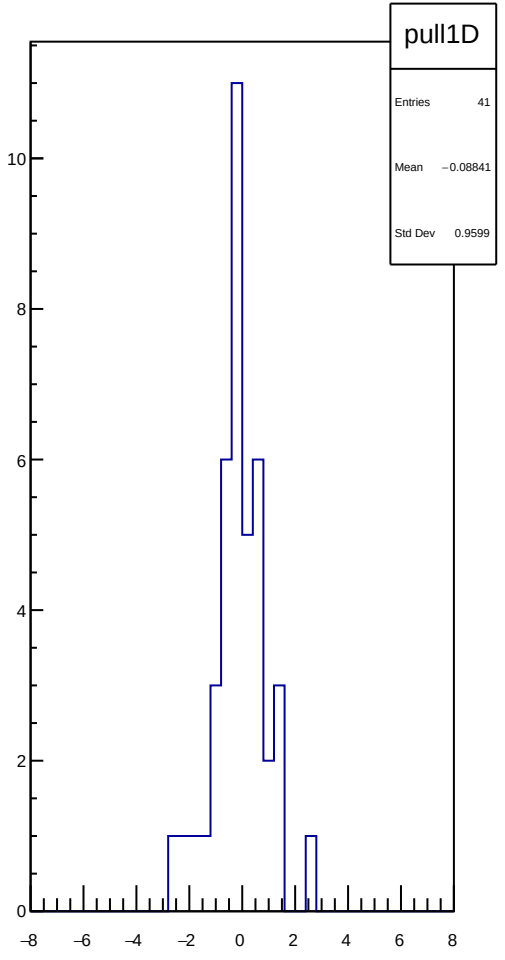

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 546 / 40
p0 1640 ± 1.829
1750
1700
1650
1600
1550
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

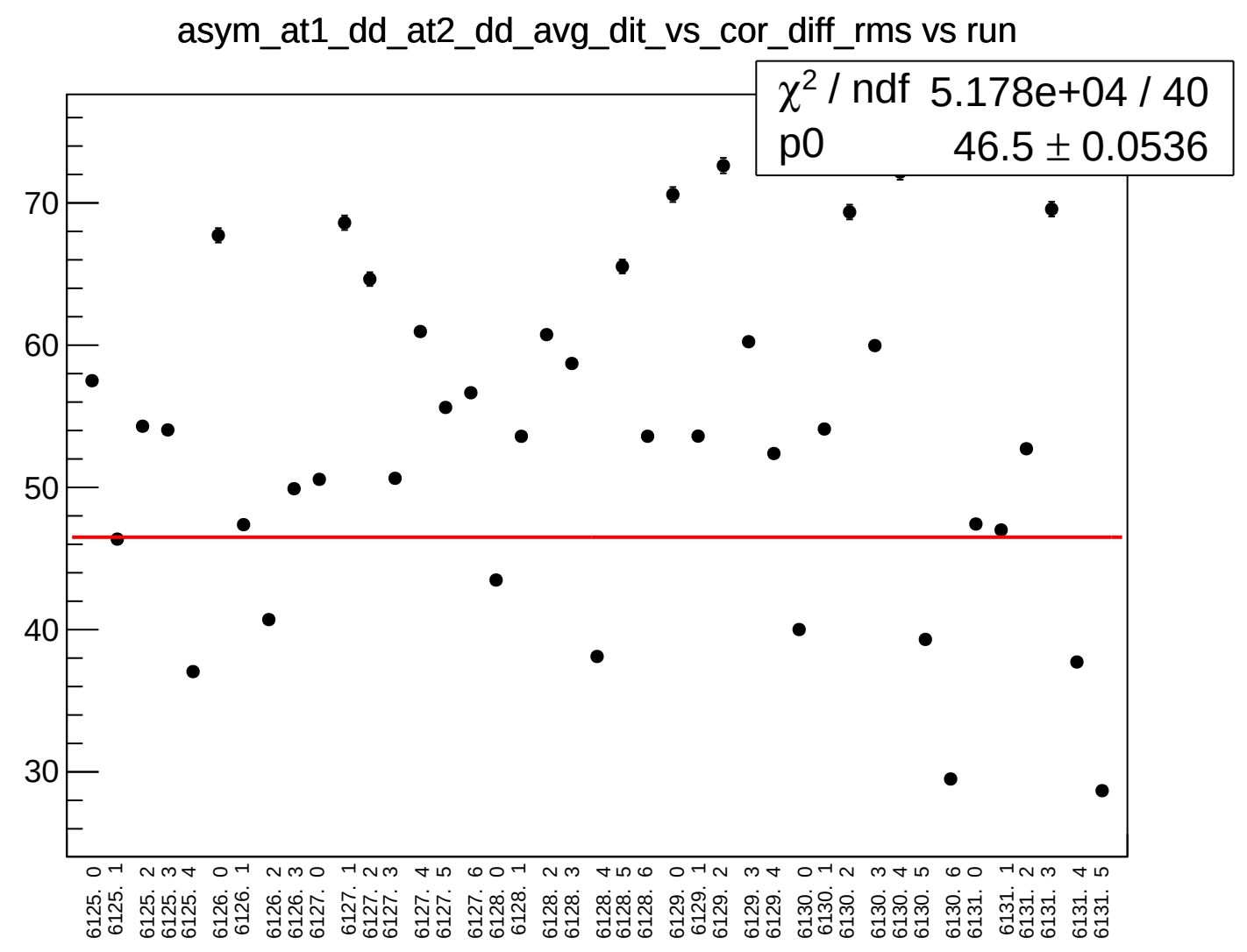

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 35.77 / 40
p0 1.693e−14 ± 1.08e−13
0.006
0.004
0.002
0
−0.002
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 8.203
Std Dev 19.82
3
2
1
0
−1
−2

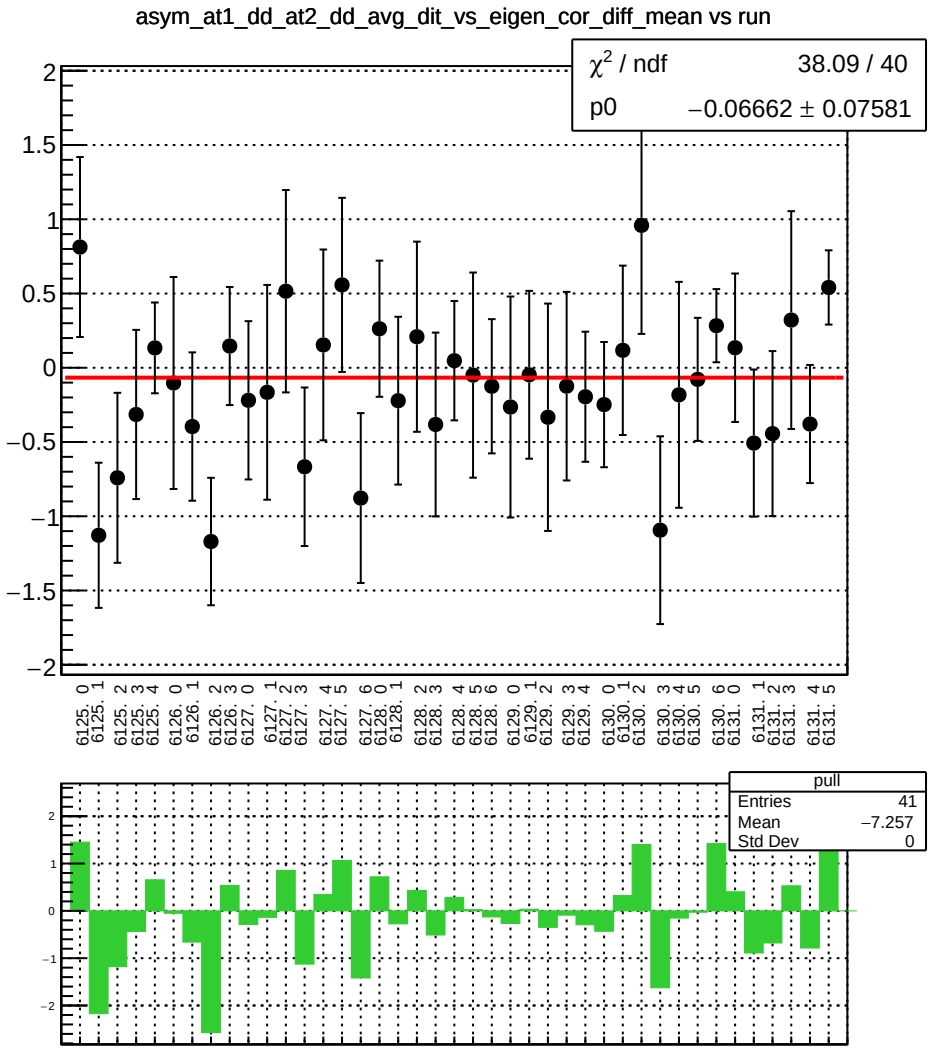

pull1D
Entries 41
Mean 0.07282
Std Dev 0.9312
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

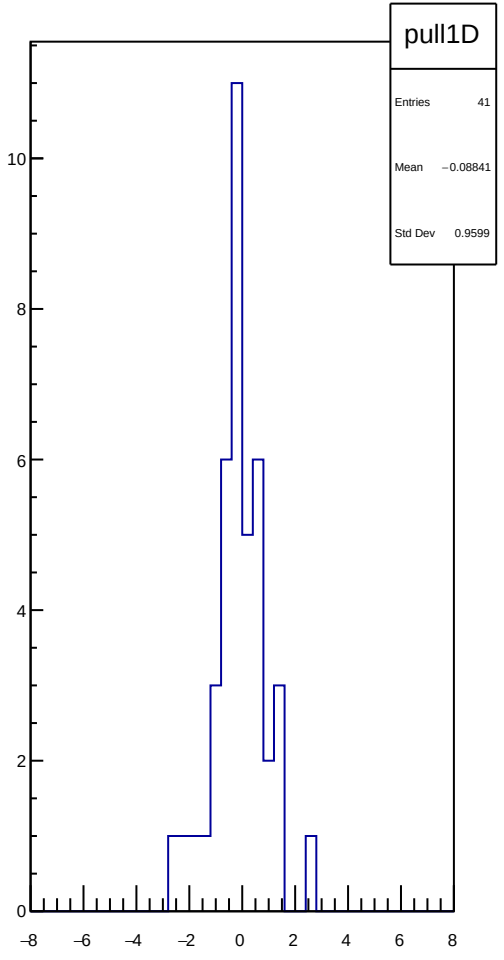

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.764e+05 / 40
p0 4.997e−11 ± 7.639e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

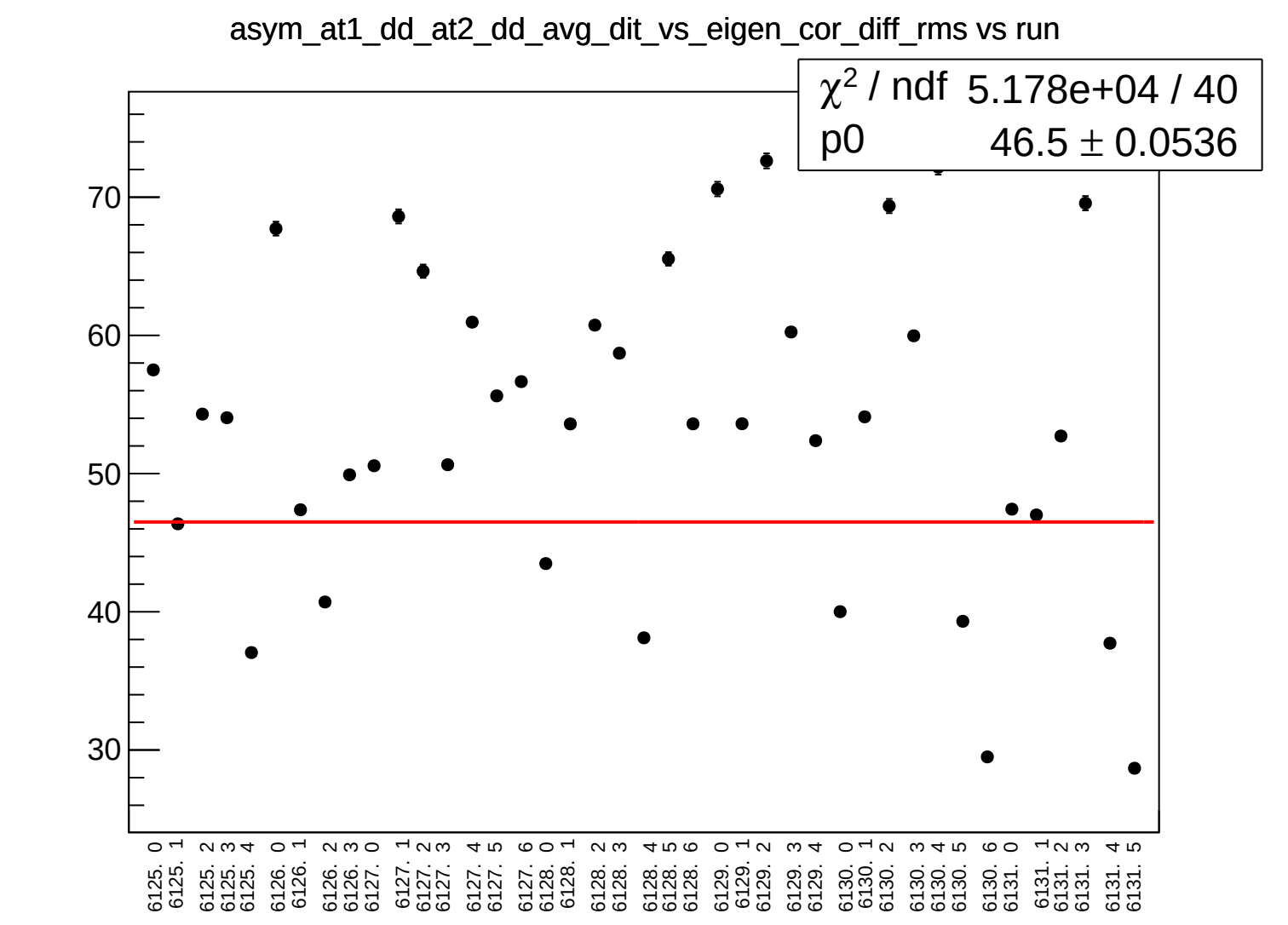

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 38.09 / 40
p0 −0.06662 ± 0.07581
pull
Entries 41
Mean −7.257
Std Dev 0

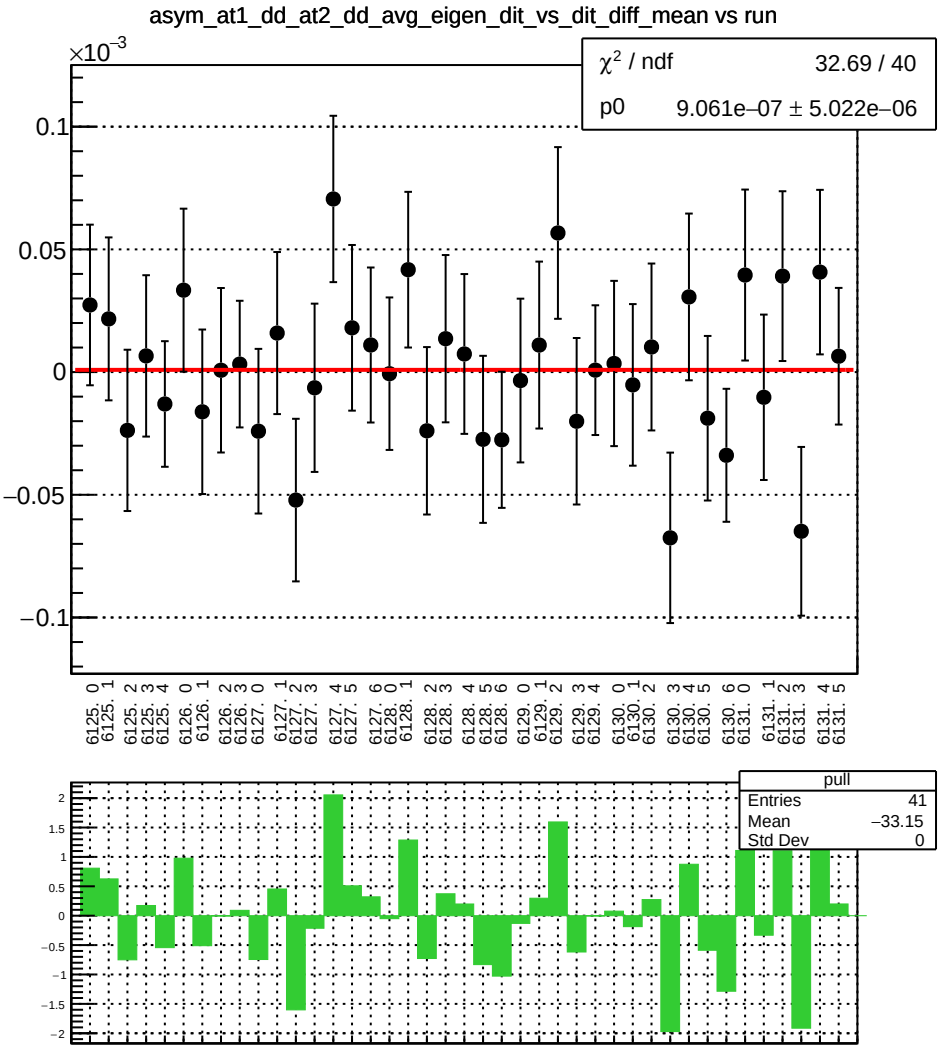

pull1D
Entries 41
Mean −0.08841
Std Dev 0.9599

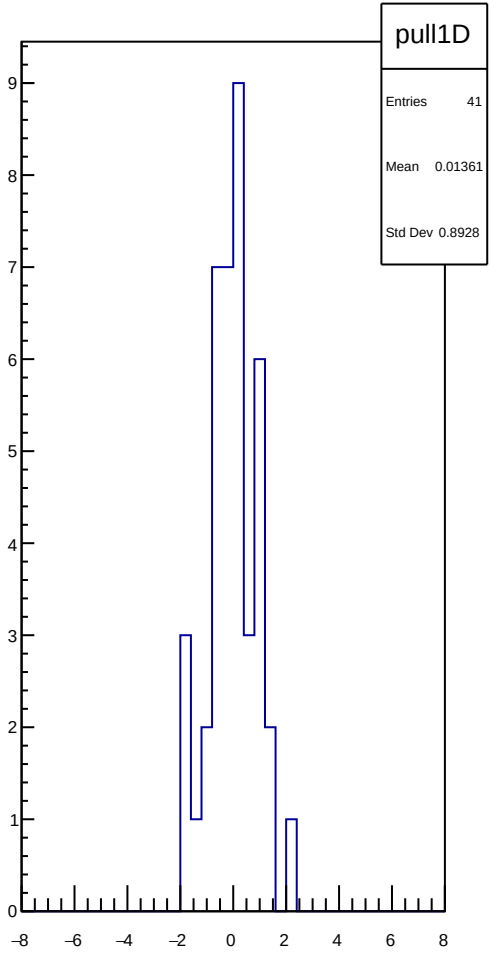

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.178e+04 / 40
p0 46.5 ± 0.0536
70
60
50
40
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

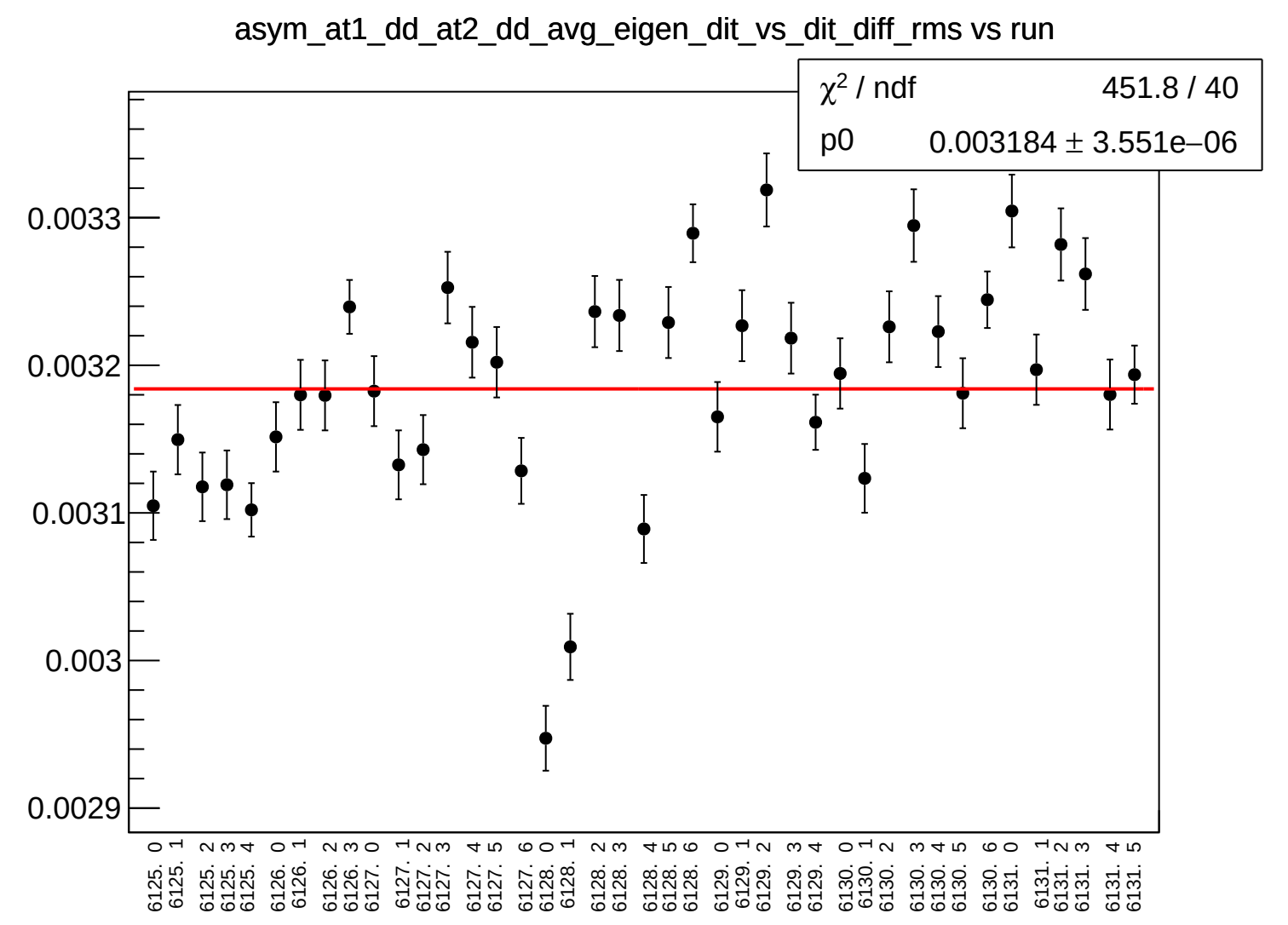

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.09 / 40
p0 −0.06662 ± 0.07581
pull
Entries 41
Mean −7.257
Std Dev 0

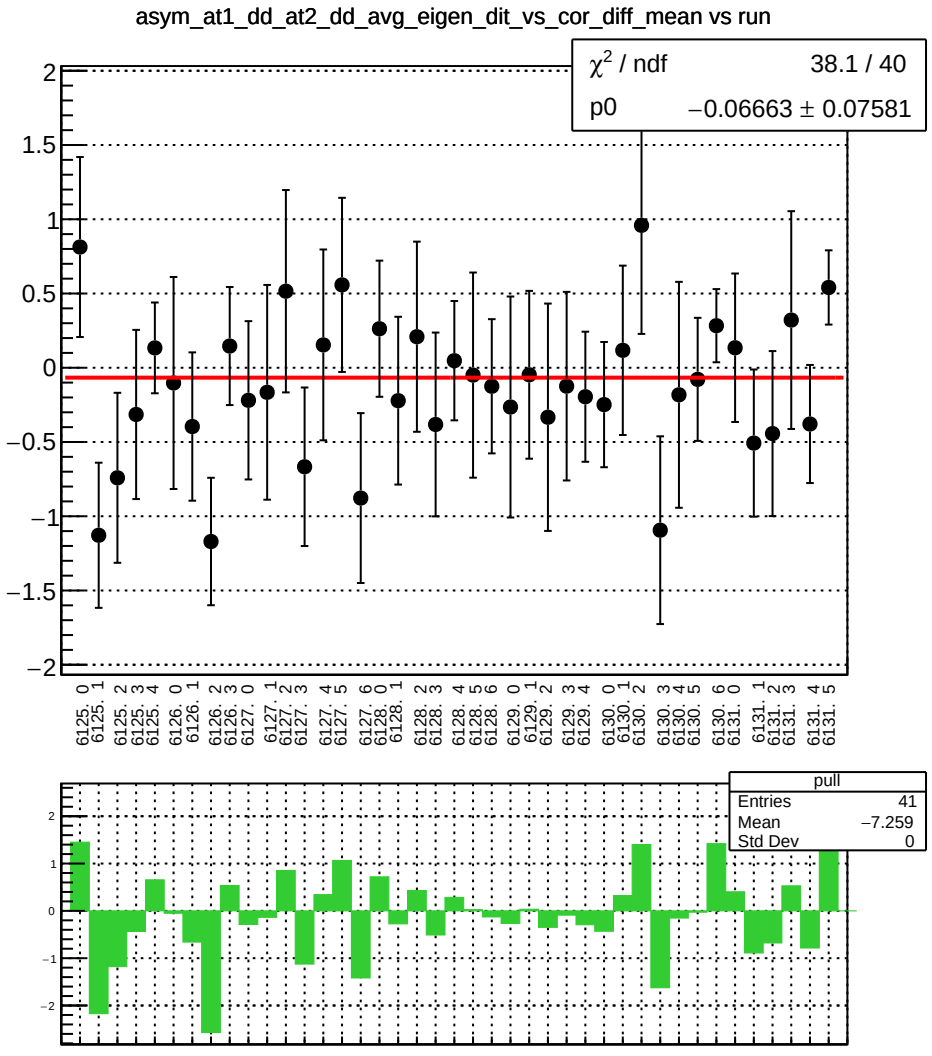

pull1D
Entries 41
Mean −0.08841
Std Dev 0.9599

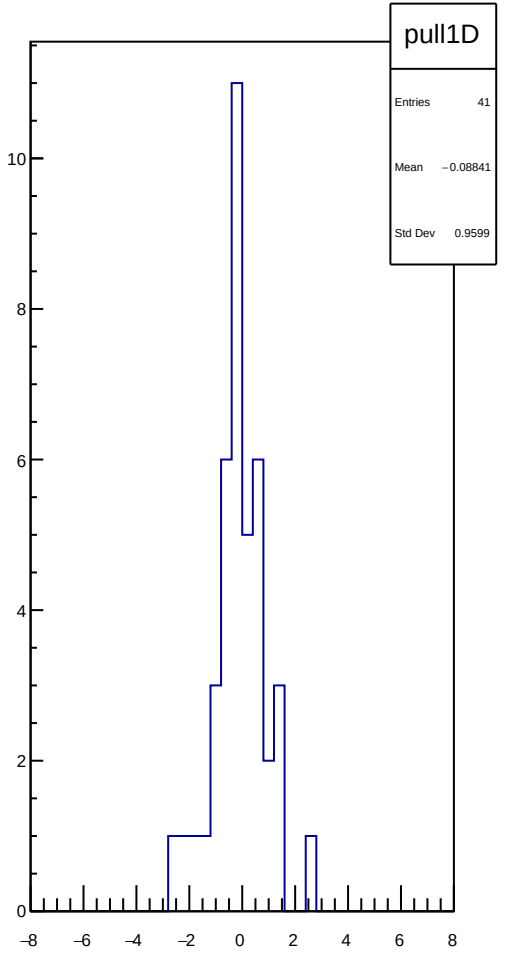

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.178e+04 / 40
p0 46.5 ± 0.0536
70
60
50
40
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

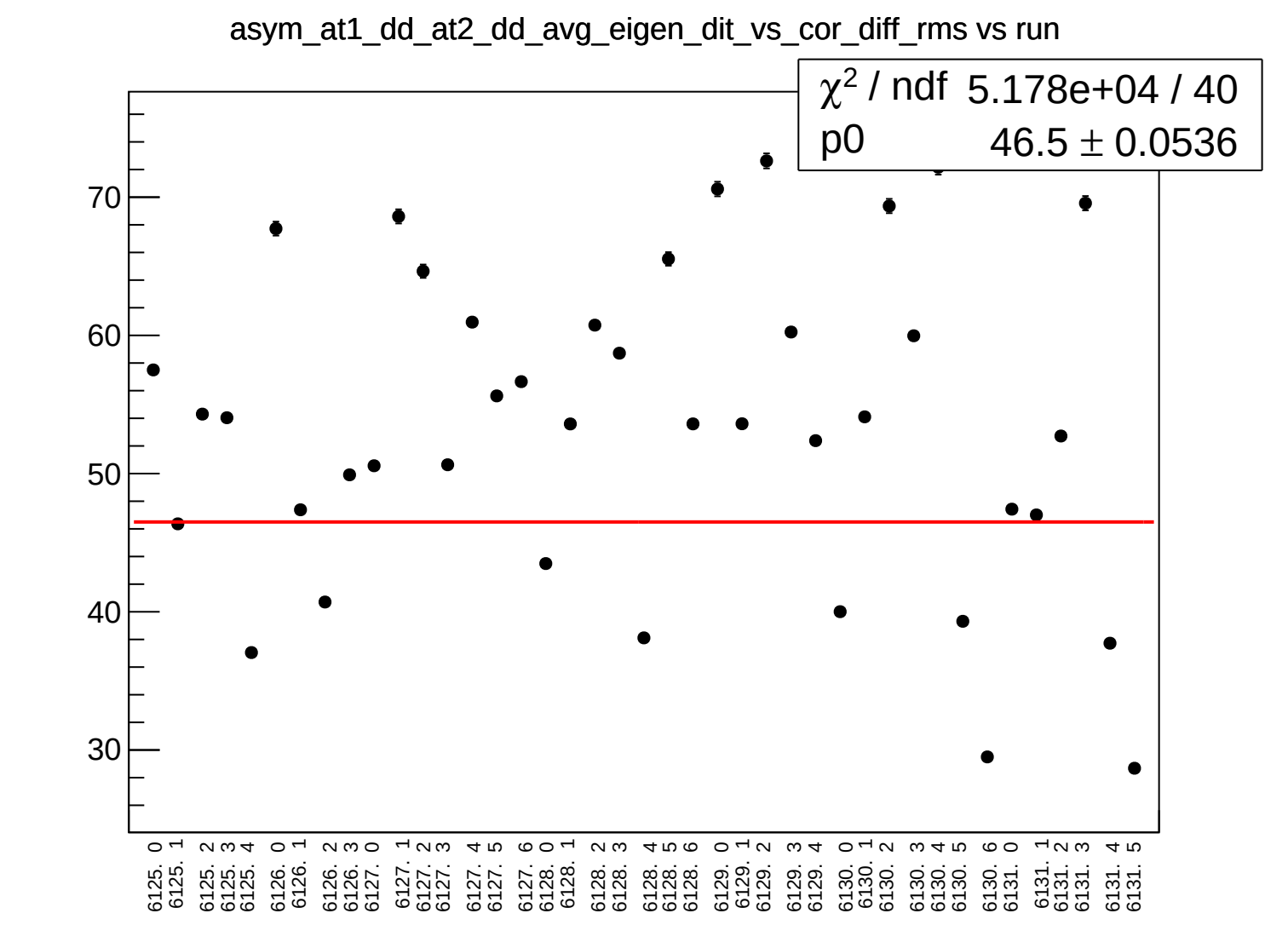

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.69 / 40
p0 9.061e−07 ± 5.022e−06
0.1
0.05
0
−0.05
−0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −33.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

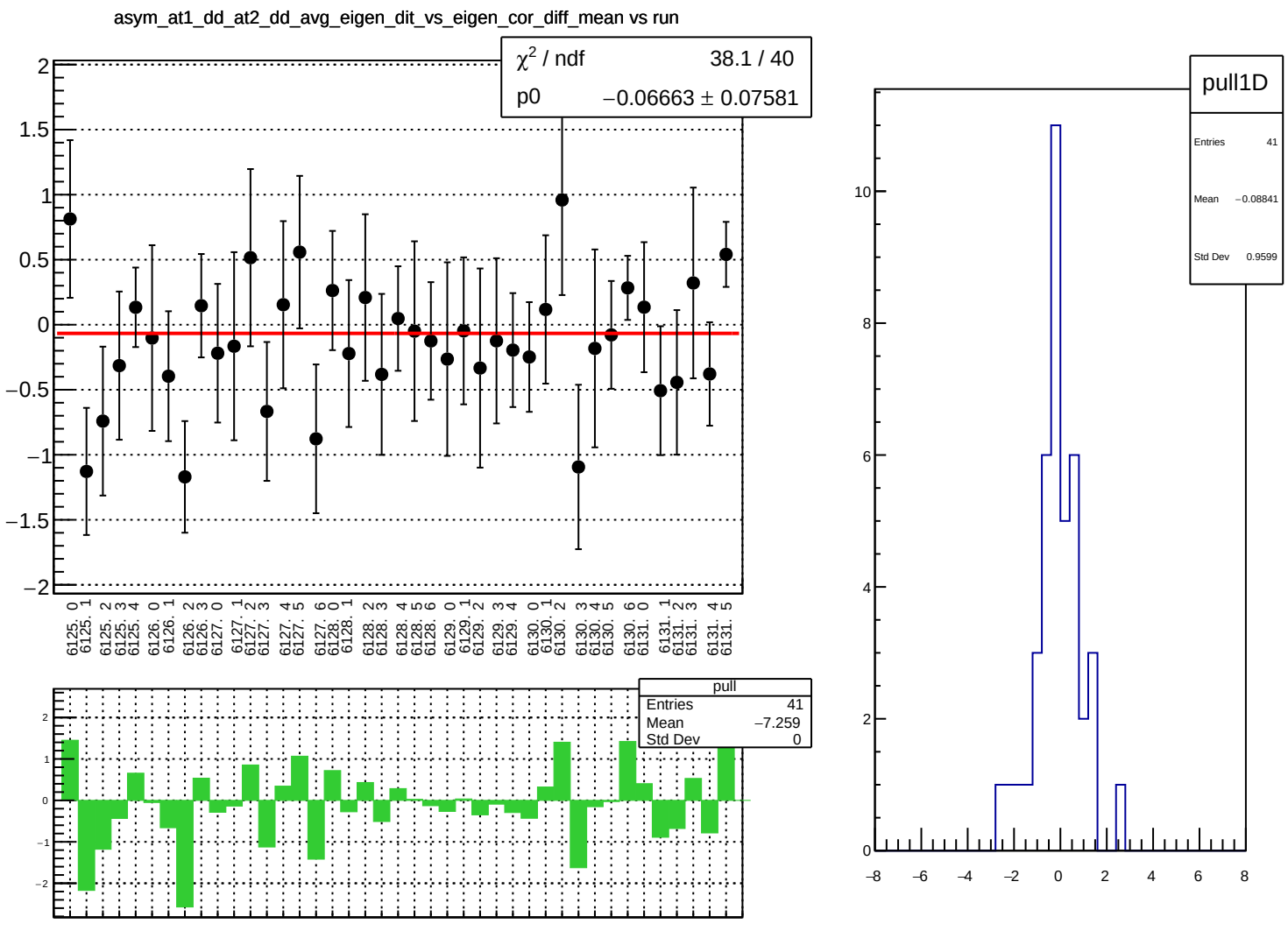

pull1D
Entries 41
Mean 0.01361
Std Dev 0.8928
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

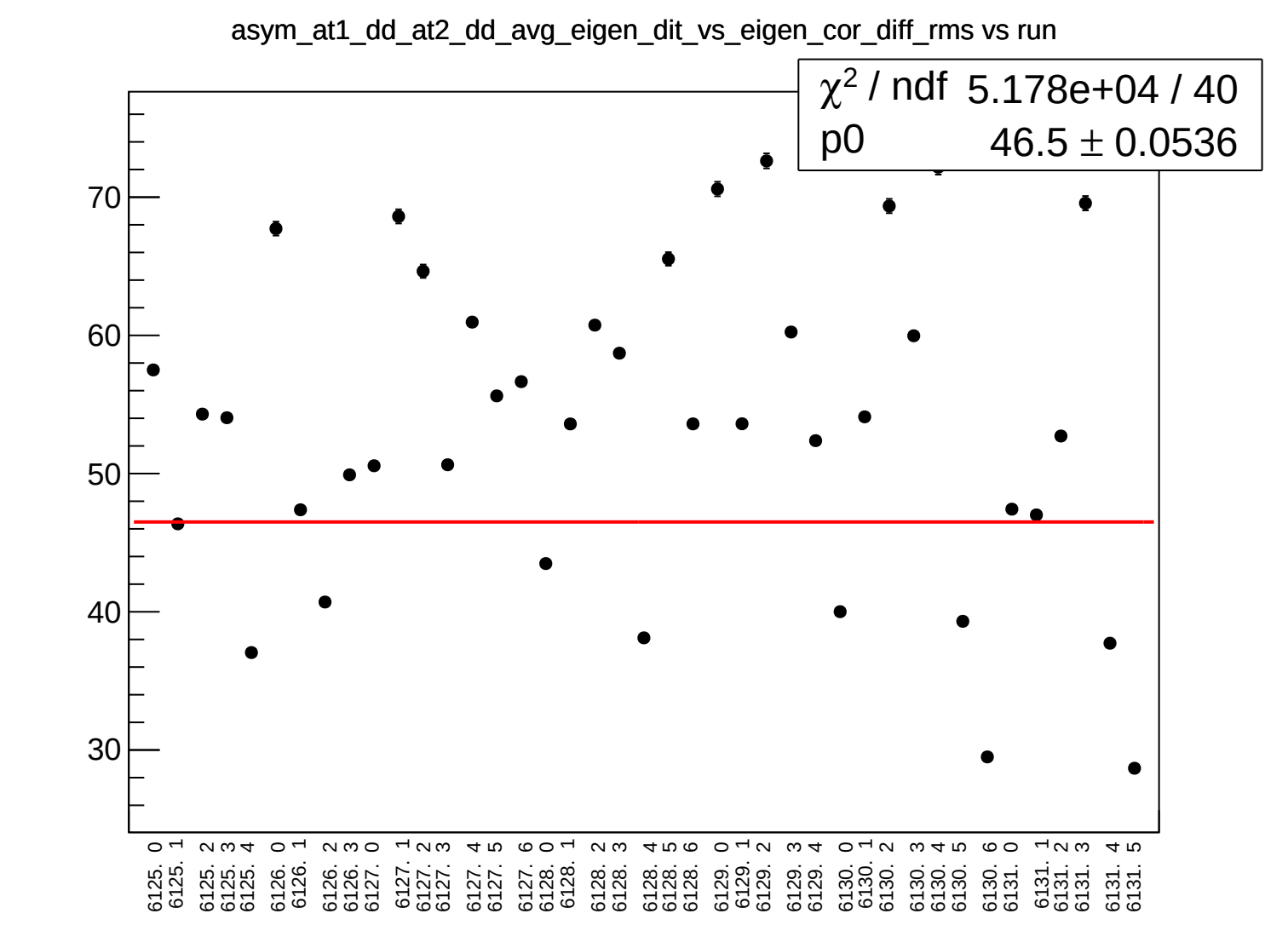

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 451.8 / 40
p0 0.003184 ± 3.551e−06
0.0033
0.0032
0.0031
0.003
0.0029
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

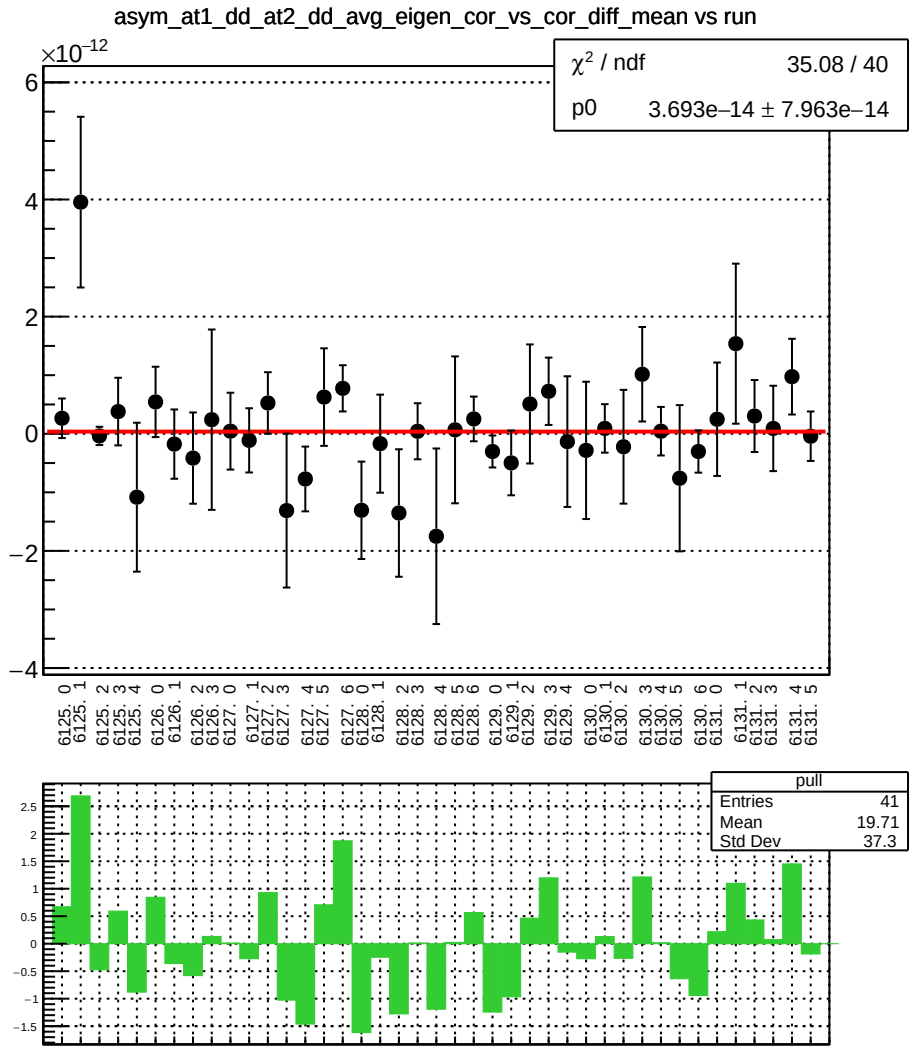

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.1 / 40
p0 −0.06663 ± 0.07581
pull
Entries 41
Mean −7.259
Std Dev 0

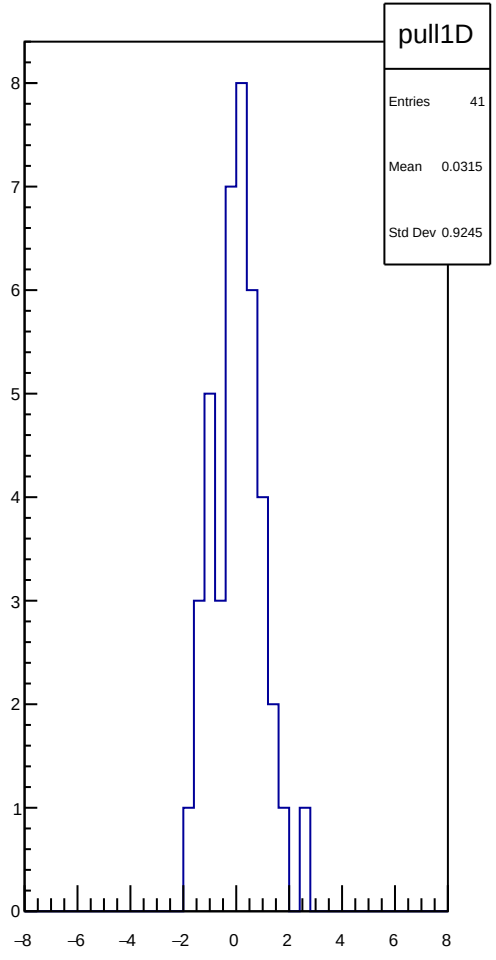

pull1D
Entries 41
Mean −0.08841
Std Dev 0.9599

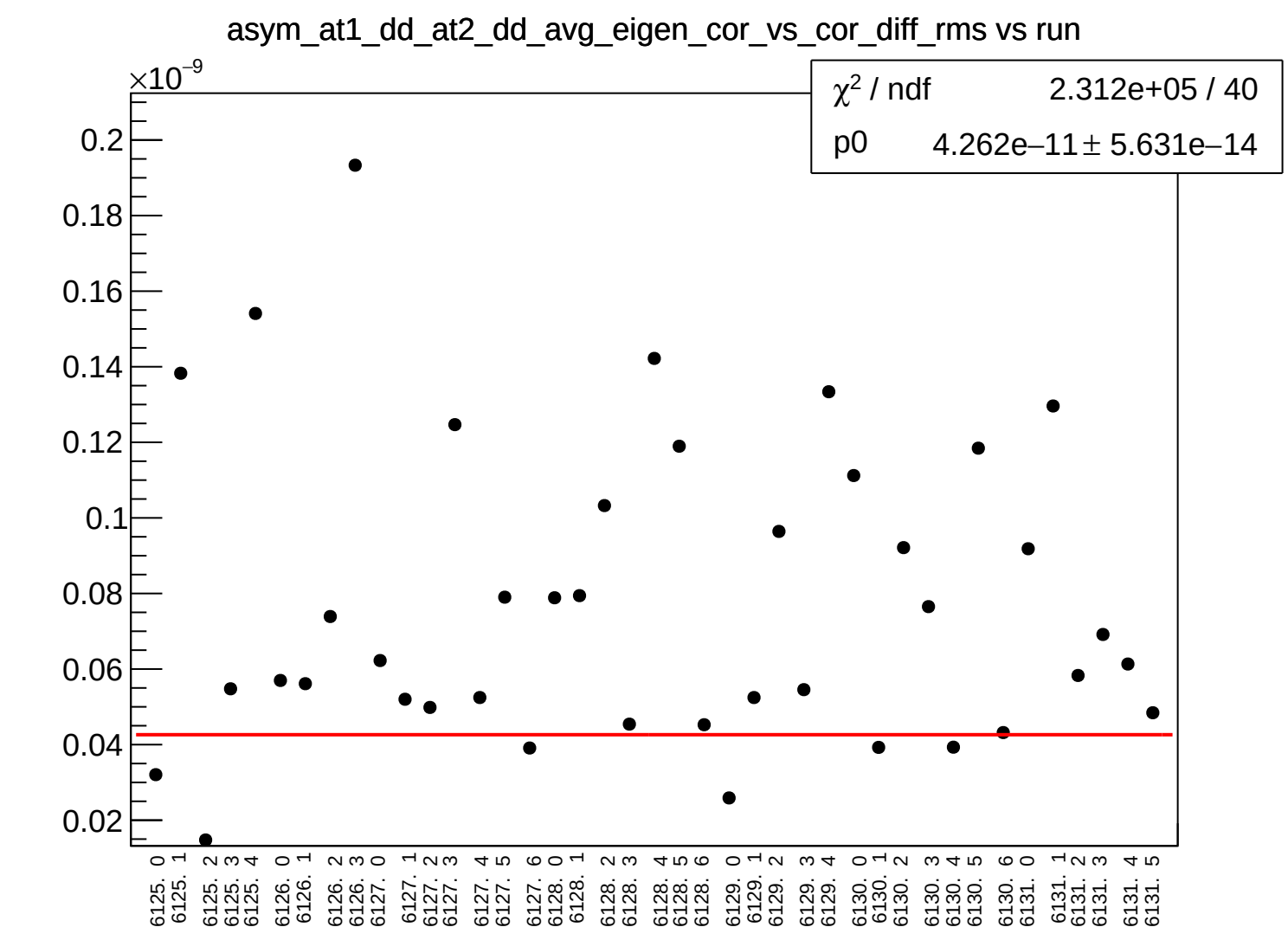

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.178e+04 / 40
p0 46.5 ± 0.0536
70
60
50
40
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

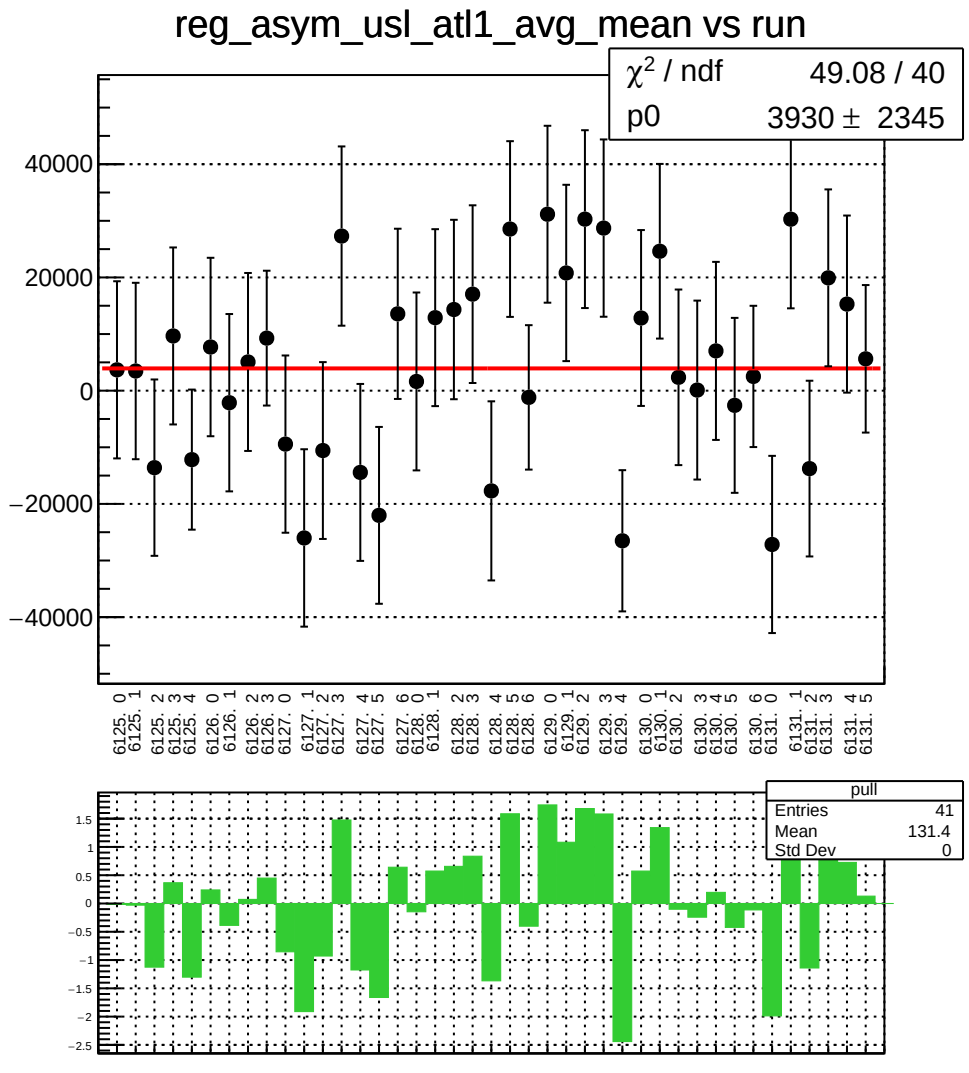

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.1 / 40
p0 −0.06663 ± 0.07581
pull
Entries 41
Mean −7.259
Std Dev 0
pull1D
Entries 41
Mean −0.08841
Std Dev 0.9599

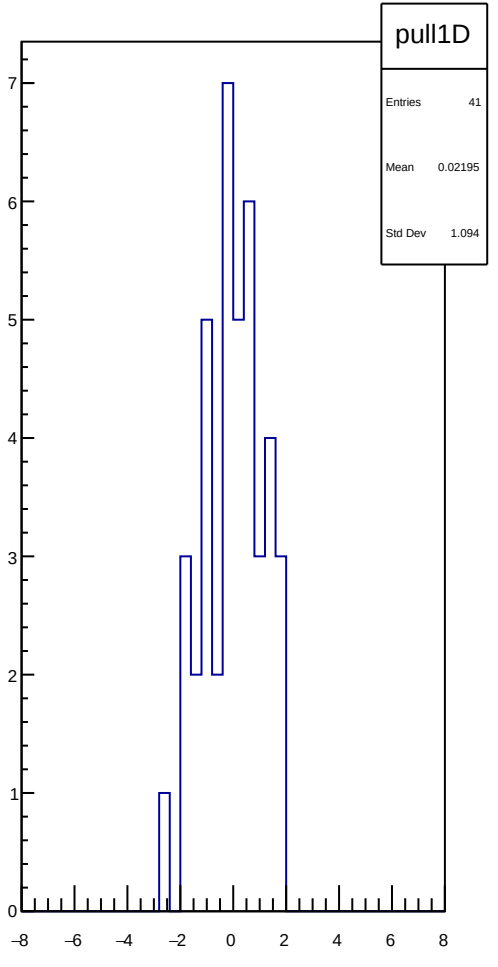

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.178e+04 / 40
p0 46.5 ± 0.0536
70
60
50
40
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

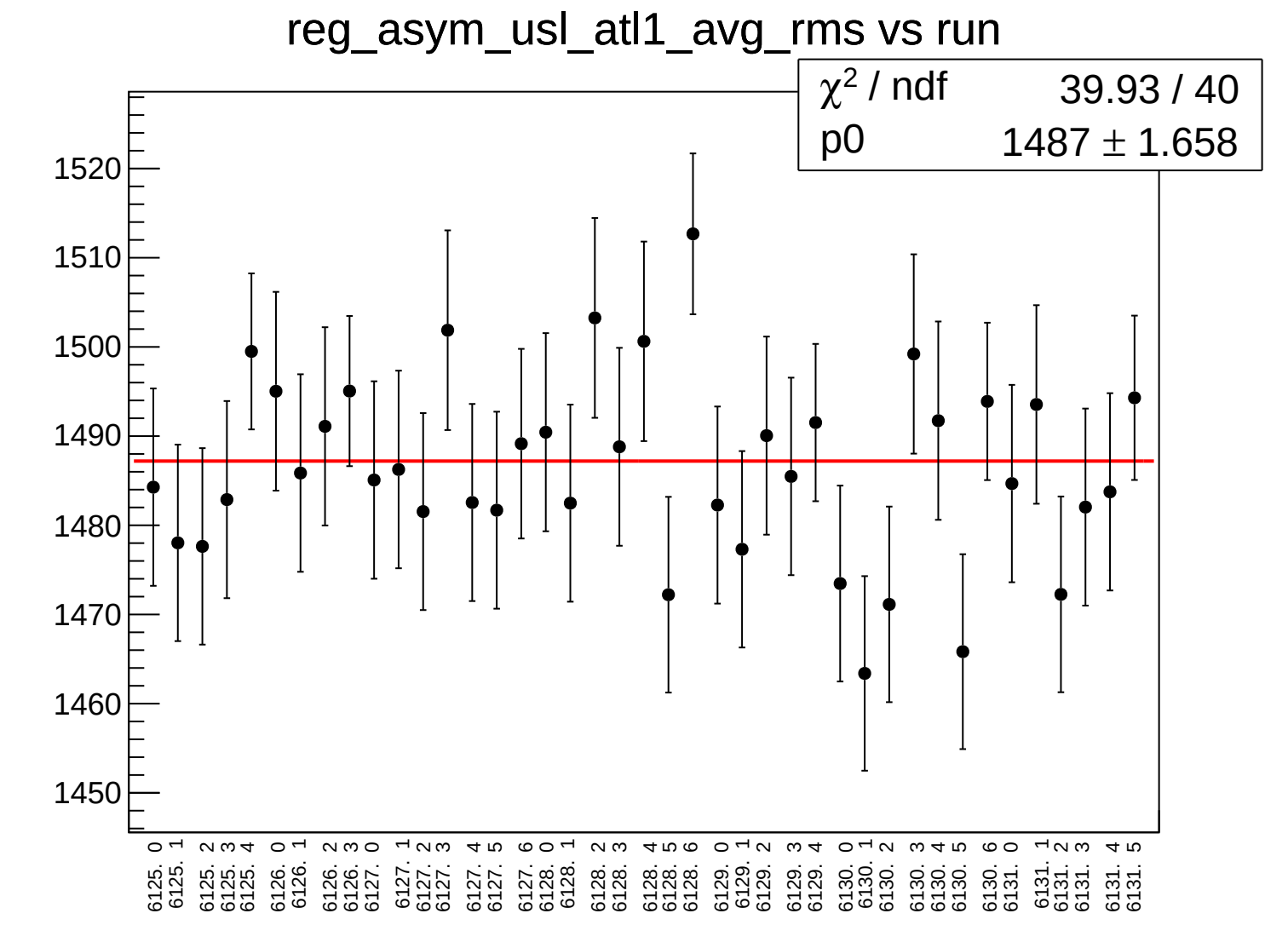

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.08 / 40
p0 3.693e−14 ± 7.963e−14
pull
Entries 41
Mean 19.71
Std Dev 37.3

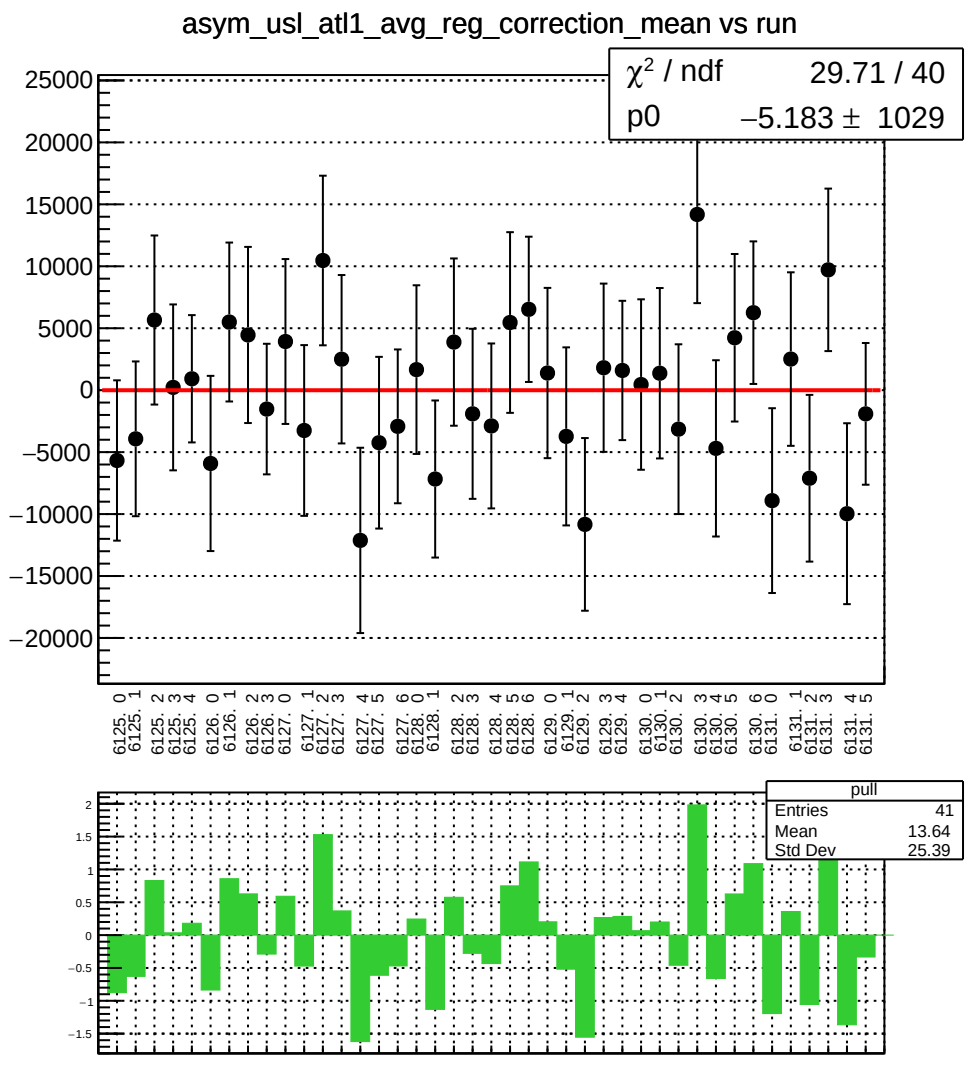

pull1D
Entries 41
Mean 0.0315
Std Dev 0.9245

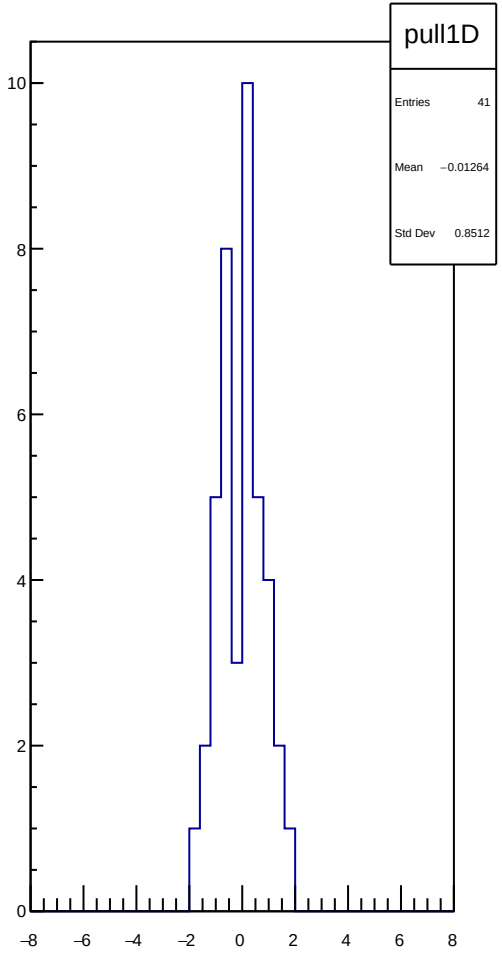

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.312e+05 / 40
p0 4.262e−11 ± 5.631e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

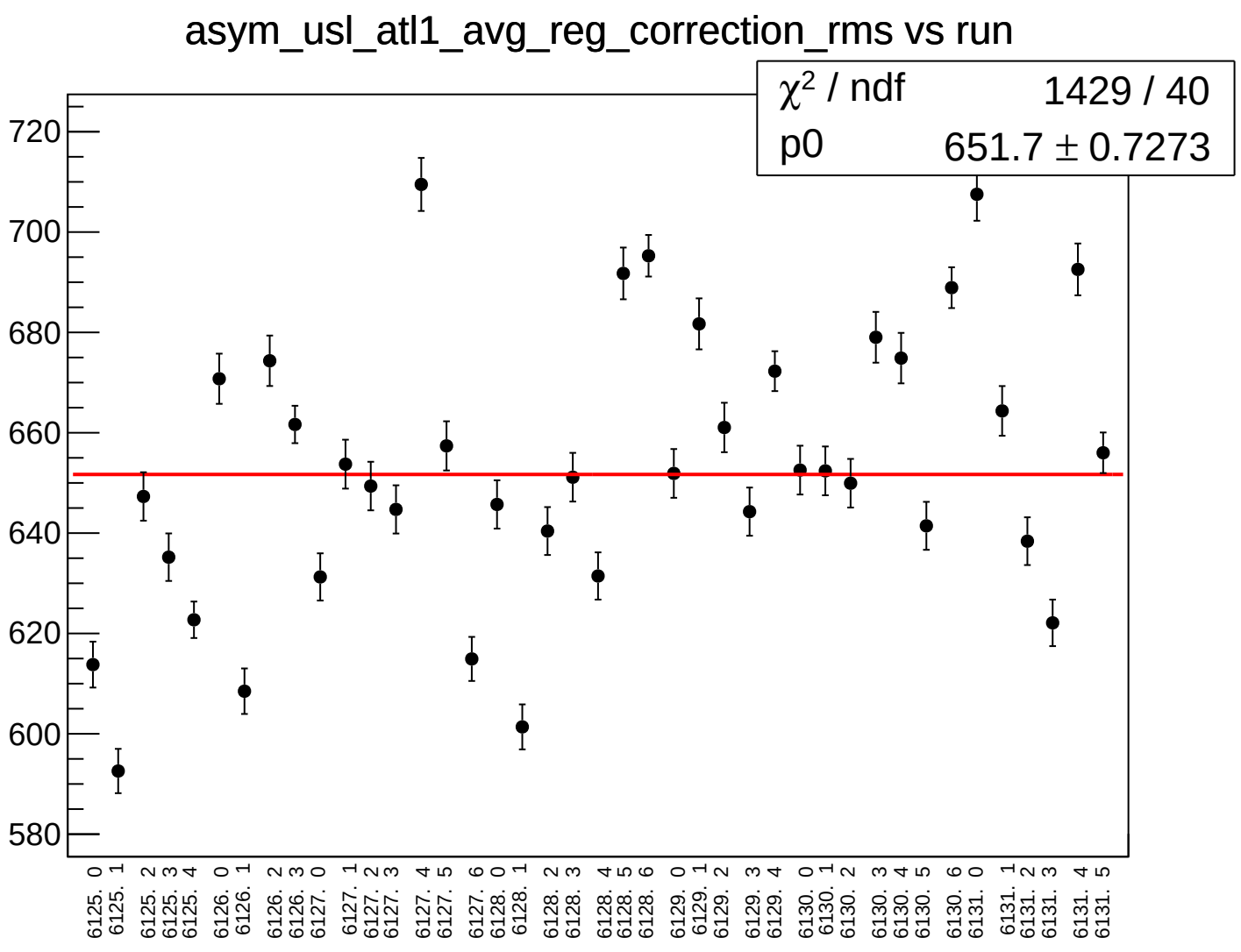

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 49.08 / 40
p0 3930 ± 2345
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 131.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

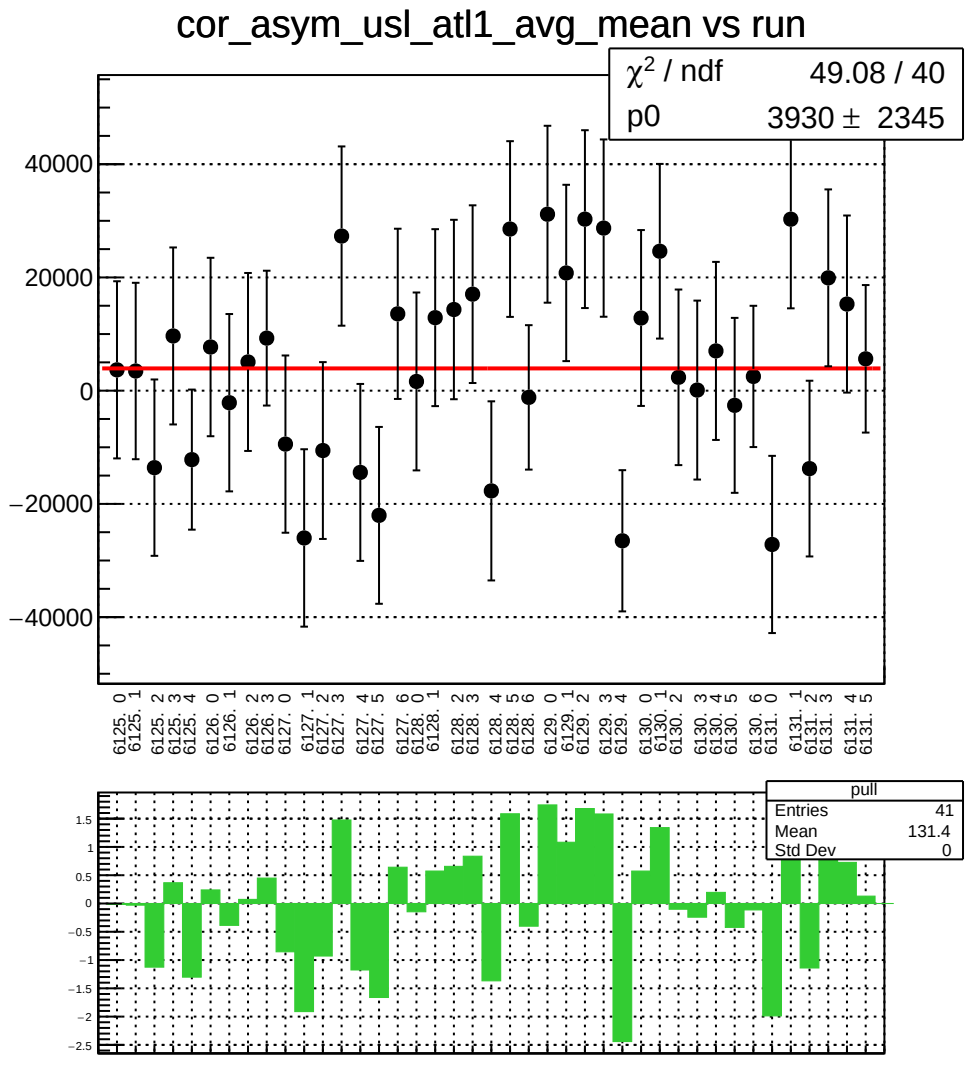

pull1D
Entries 41
Mean 0.02195
Std Dev 1.094
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

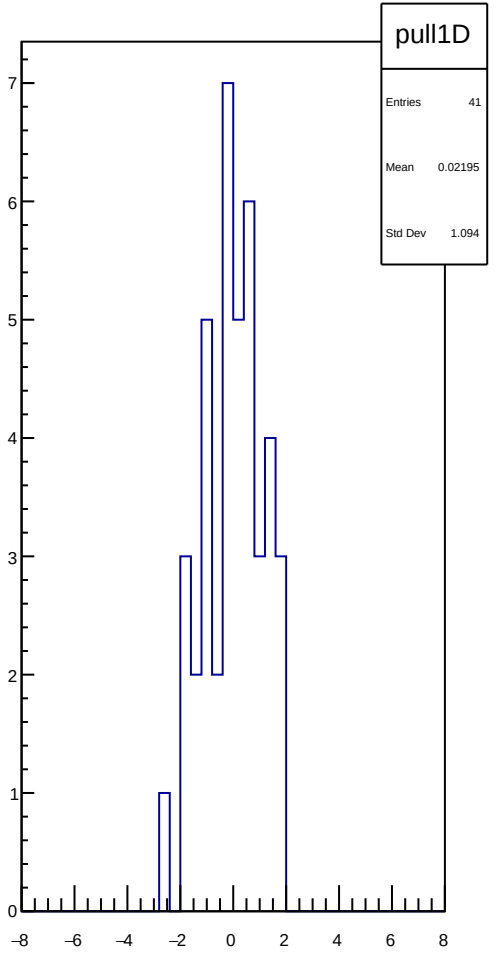

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 39.93 / 40
p0 1487 ± 1.658
1520
1510
1500
1490
1480
1470
1460
1450
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

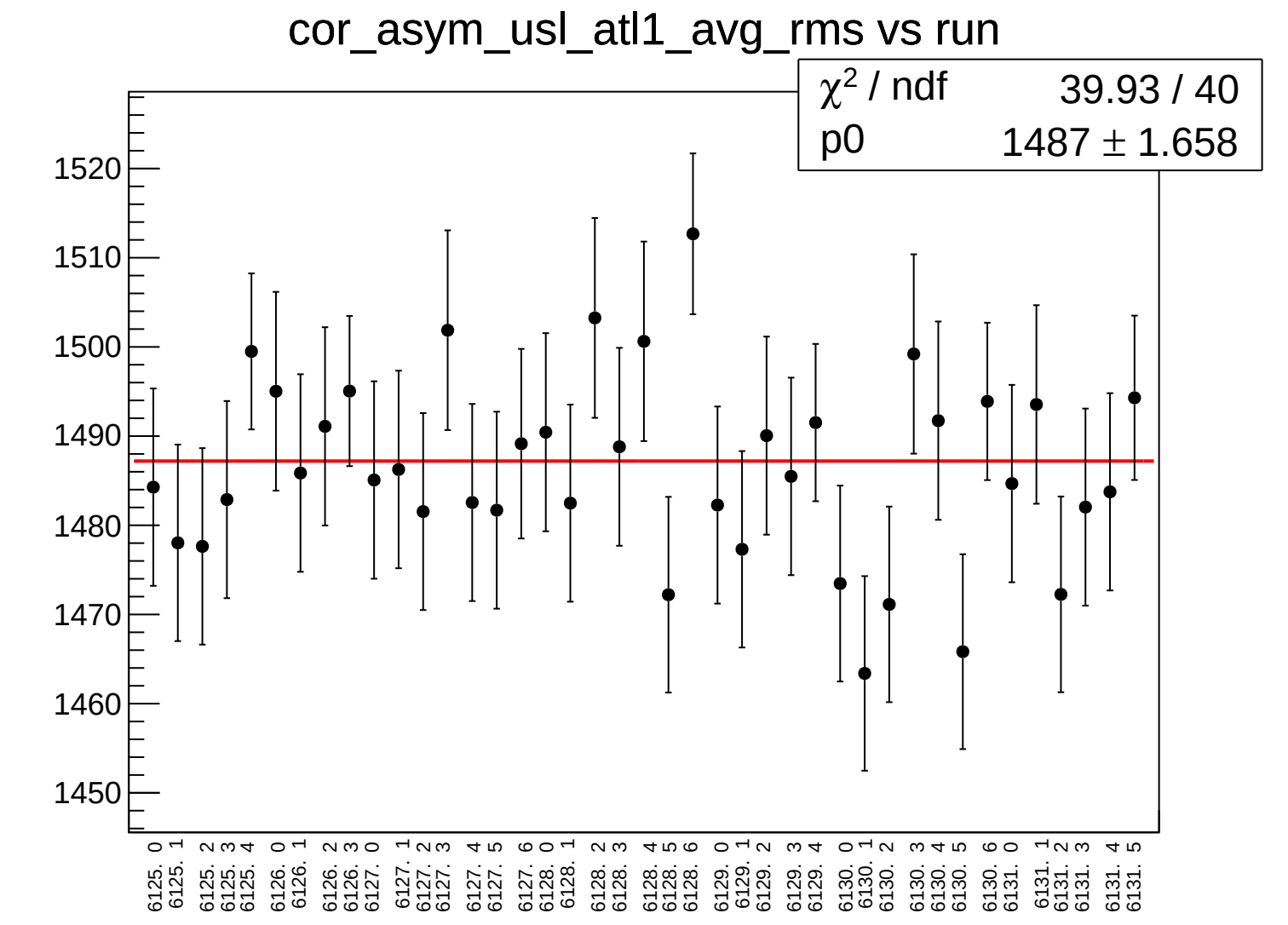

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 29.71 / 40
p0 −5.183 ± 1029
pull
Entries 41
Mean 13.64
Std Dev 25.39

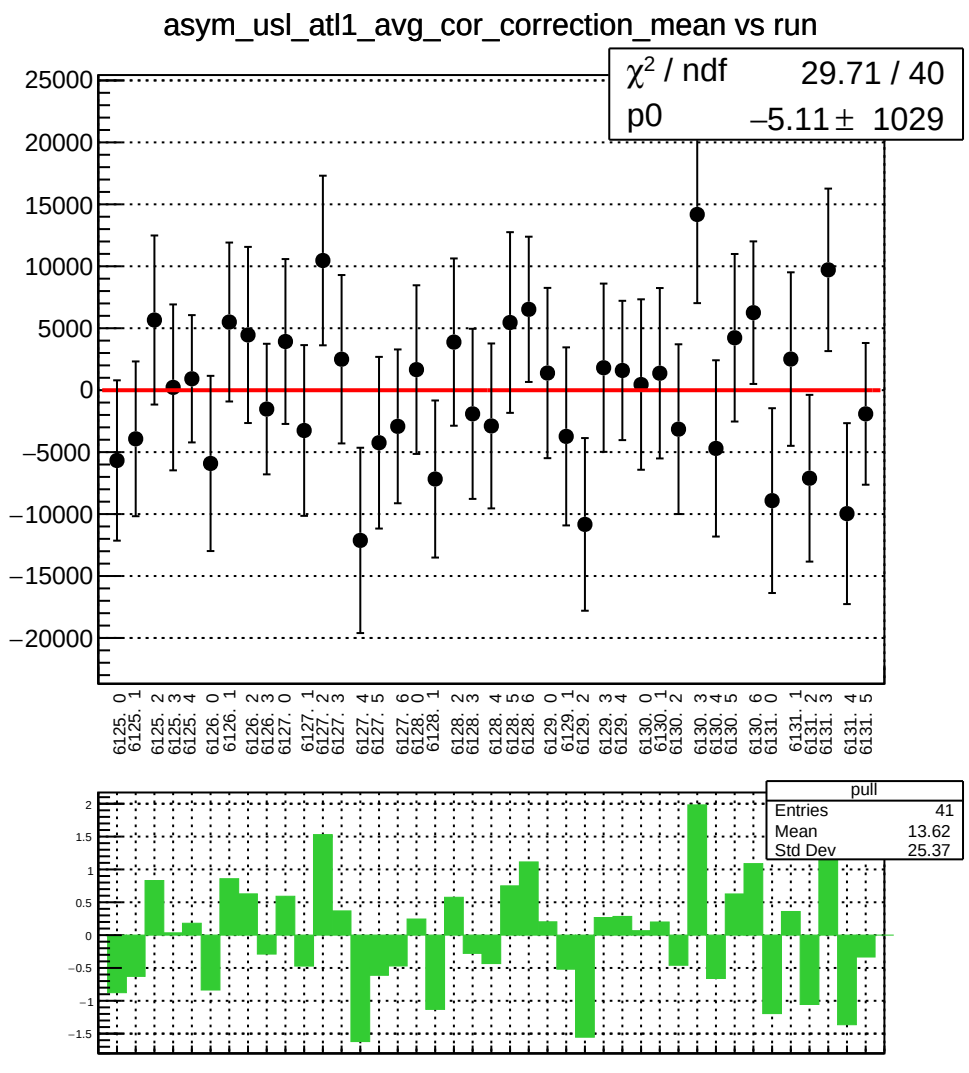

pull1D
Entries 41
Mean −0.01264
Std Dev 0.8512

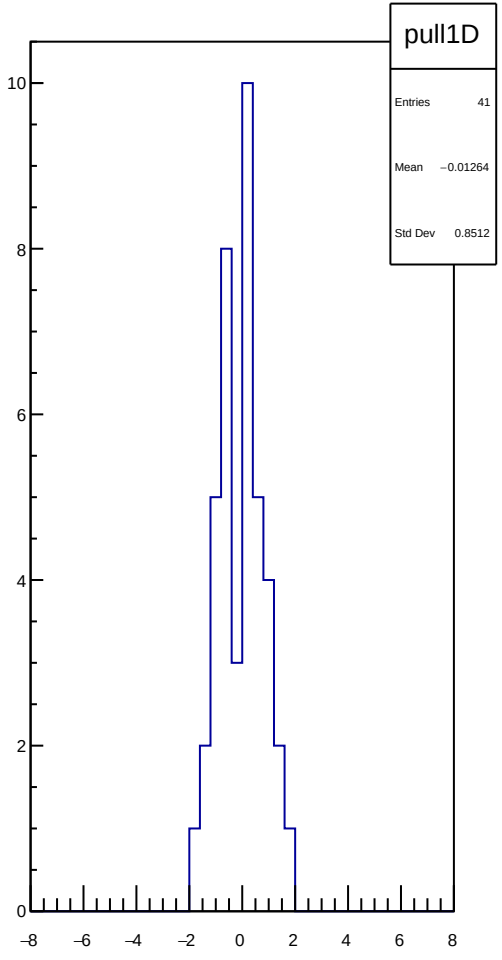

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 1429 / 40
p0 651.7 ± 0.7273
720
700
680
660
640
620
600
580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

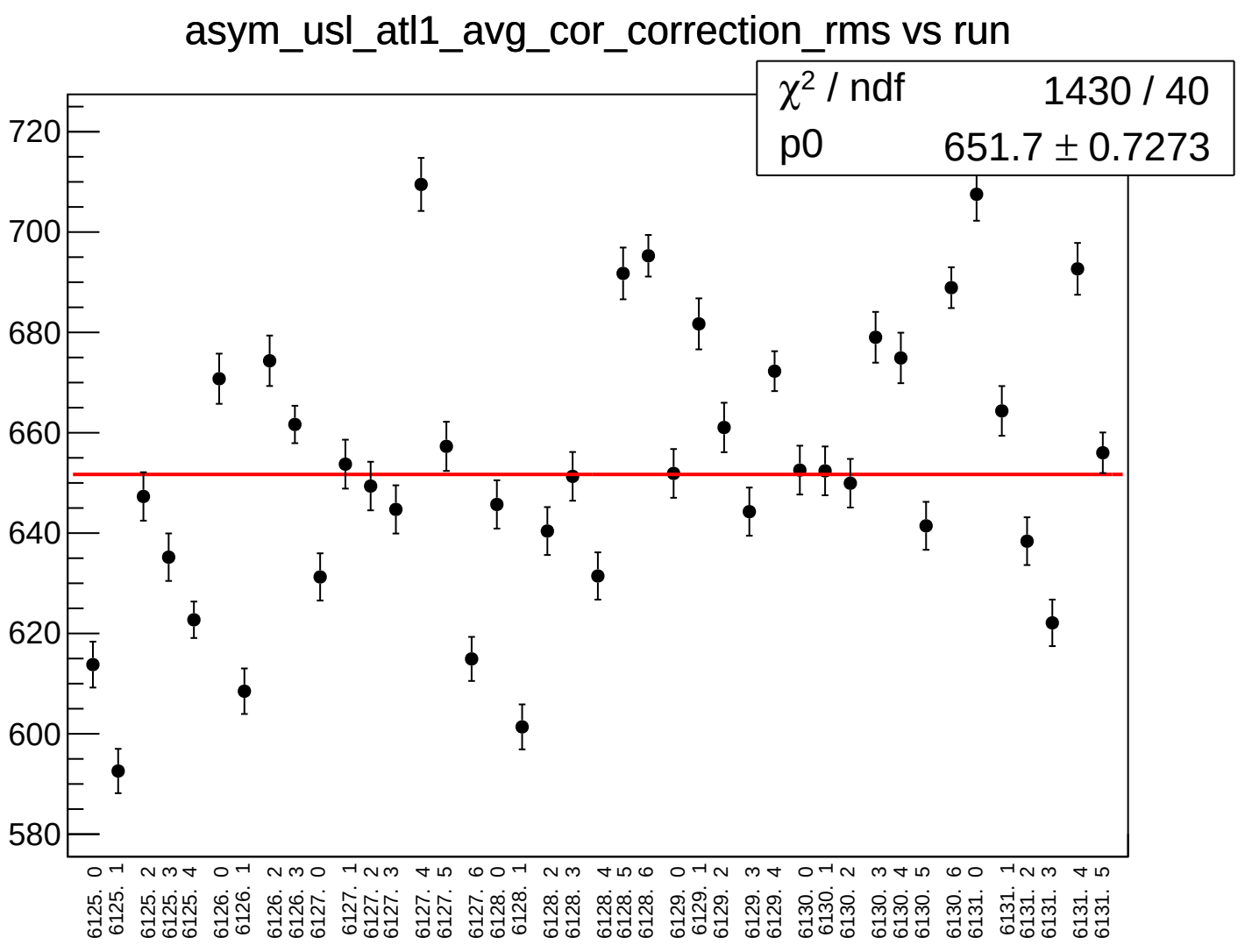

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 49.08 / 40
p0 3930 ± 2345
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 131.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

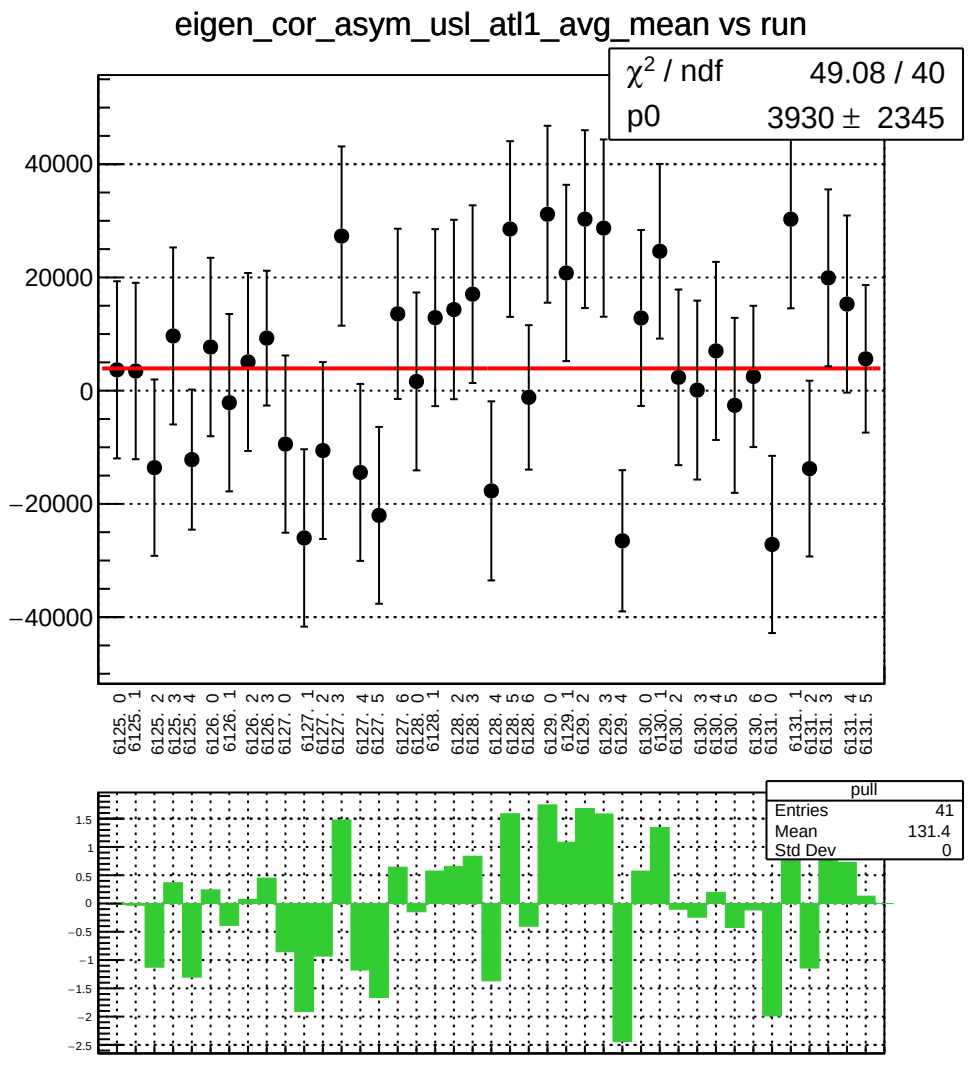

pull1D
Entries 41
Mean 0.02195
Std Dev 1.094
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

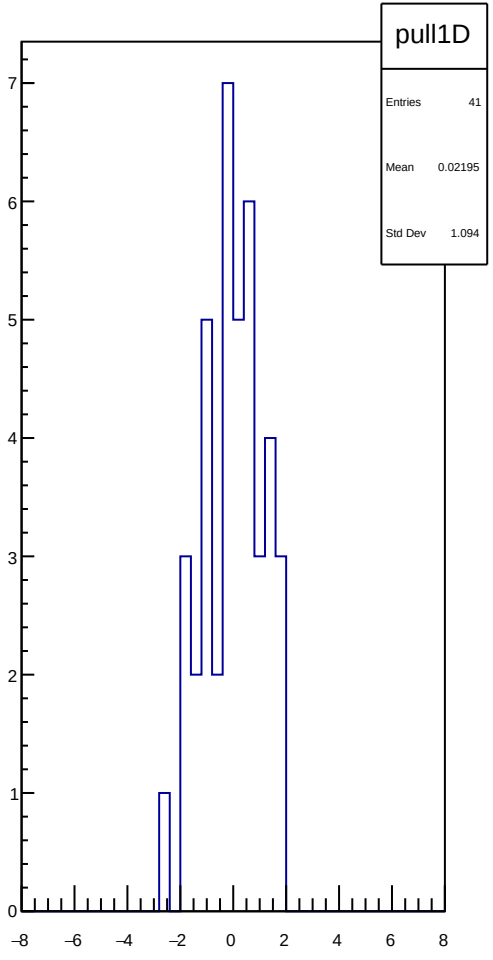

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 39.93 / 40
p0 1487 ± 1.658
1520
1510
1500
1490
1480
1470
1460
1450
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

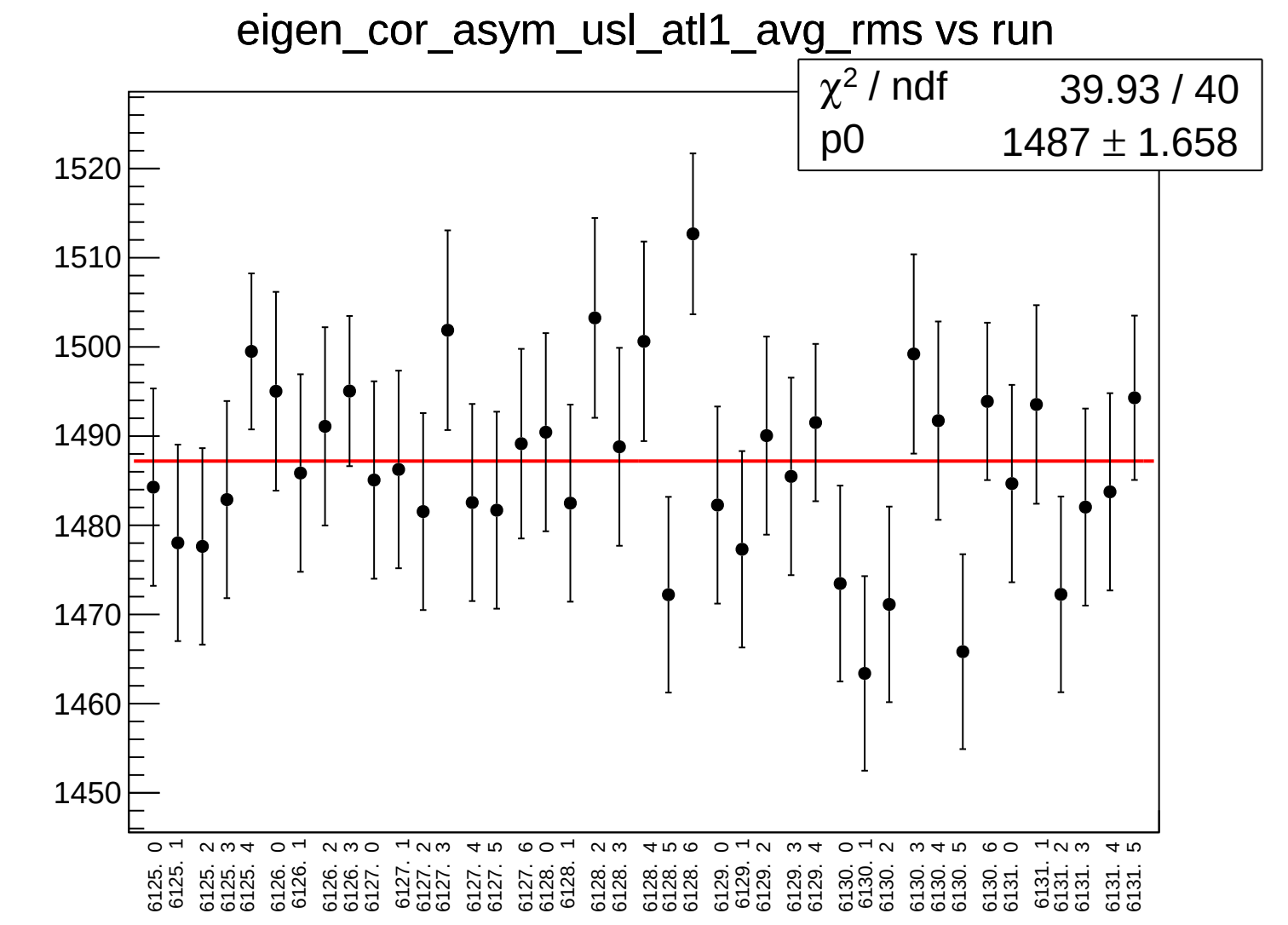

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 29.71 / 40
p0 −5.11 ± 1029
pull
Entries 41
Mean 13.62
Std Dev 25.37

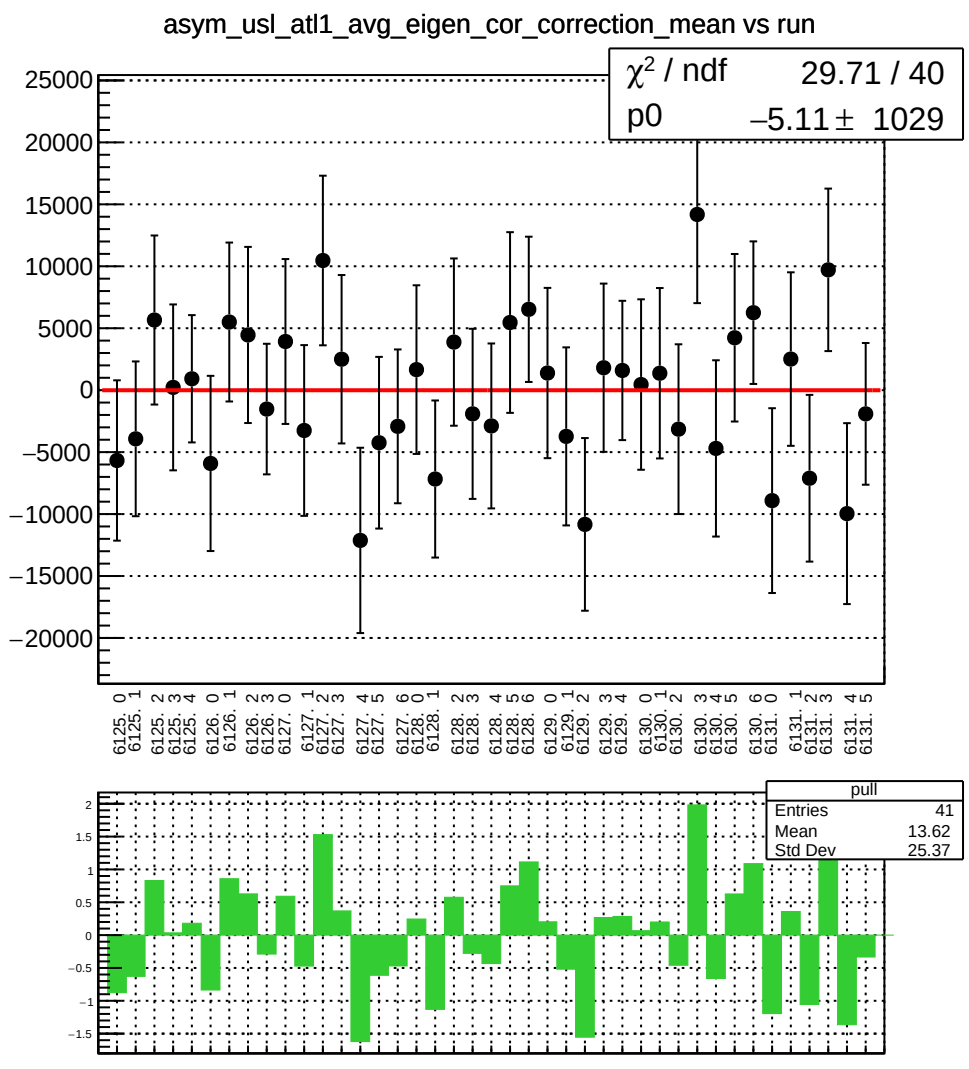

pull1D
Entries 41
Mean −0.01264
Std Dev 0.8512

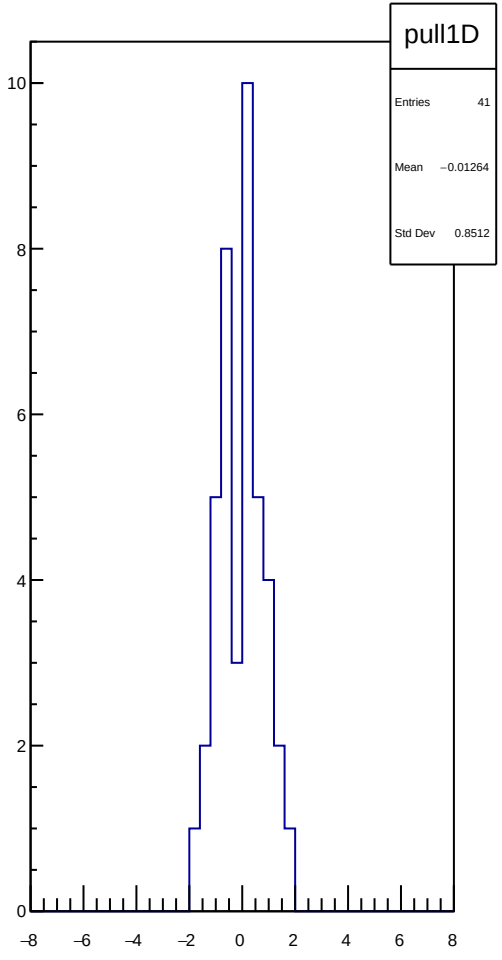

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 1430 / 40
p0 651.7 ± 0.7273
720
700
680
660
640
620
600
580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

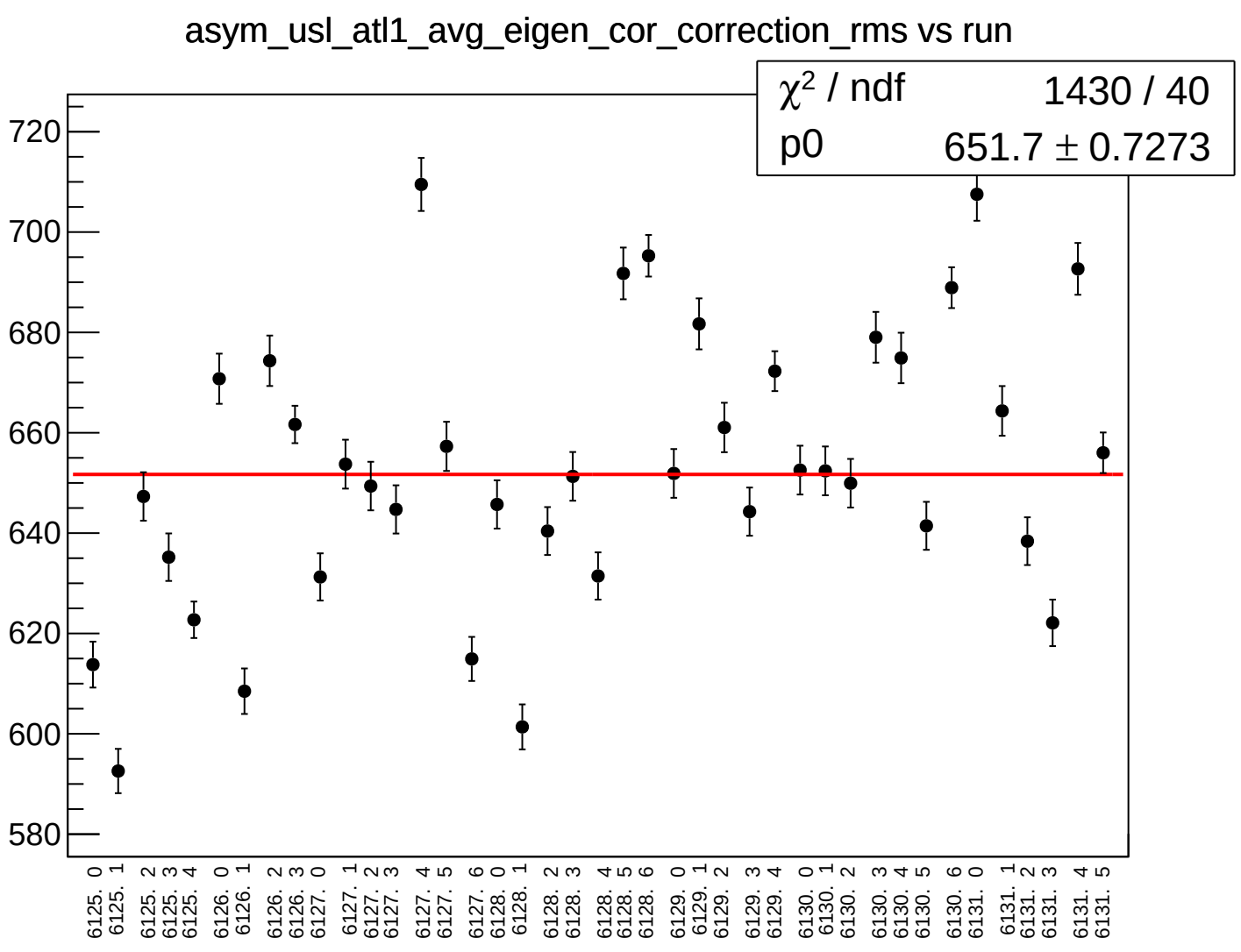

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 49.08 / 40
p0 3930 ± 2345
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 131.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 41
Mean 0.02195
Std Dev 1.094
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 39.93 / 40
p0 1487 ± 1.658
1520
1510
1500
1490
1480
1470
1460
1450
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 29.71 / 40
p0 −5.11 ± 1029
pull
Entries 41
Mean 13.62
Std Dev 25.37


pull1D
Entries 41
Mean −0.01264
Std Dev 0.8512


asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1430 / 40
p0 651.7 ± 0.7273
720
700
680
660
640
620
600
580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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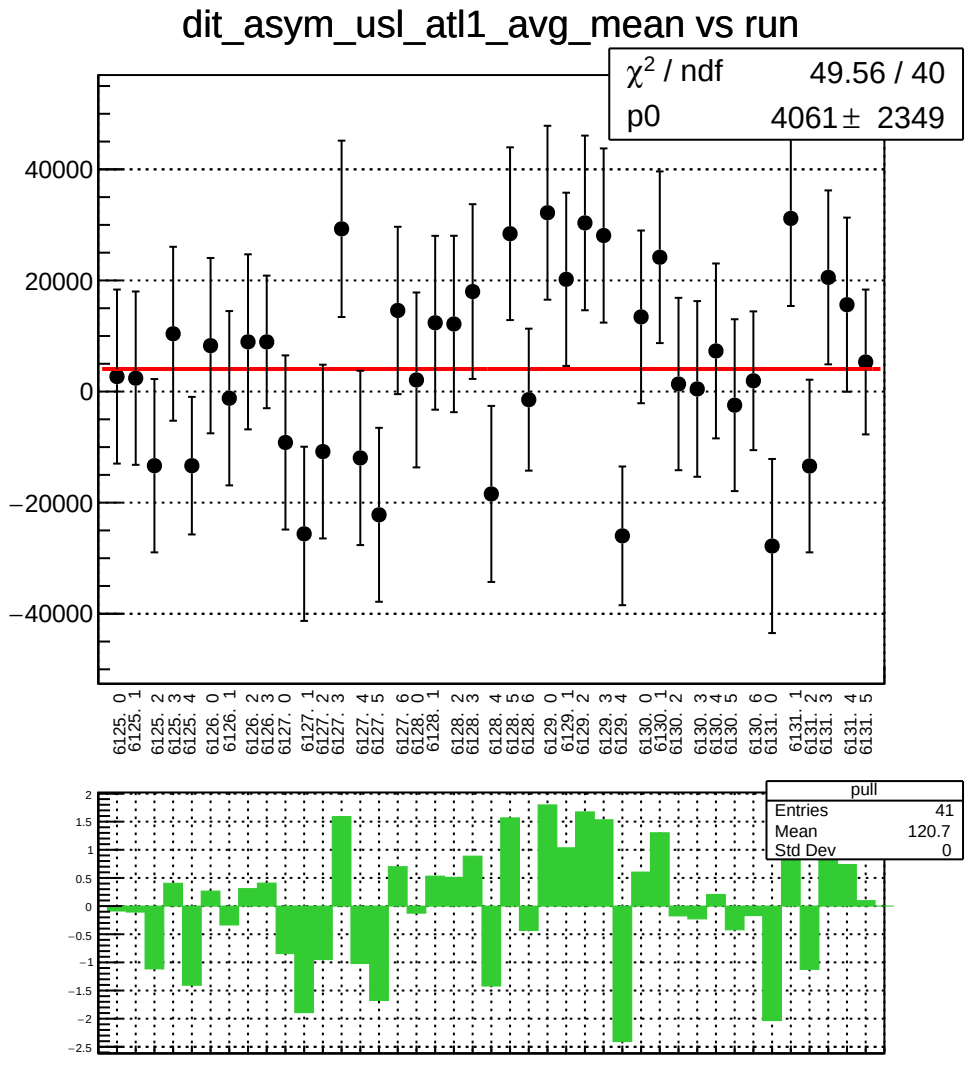
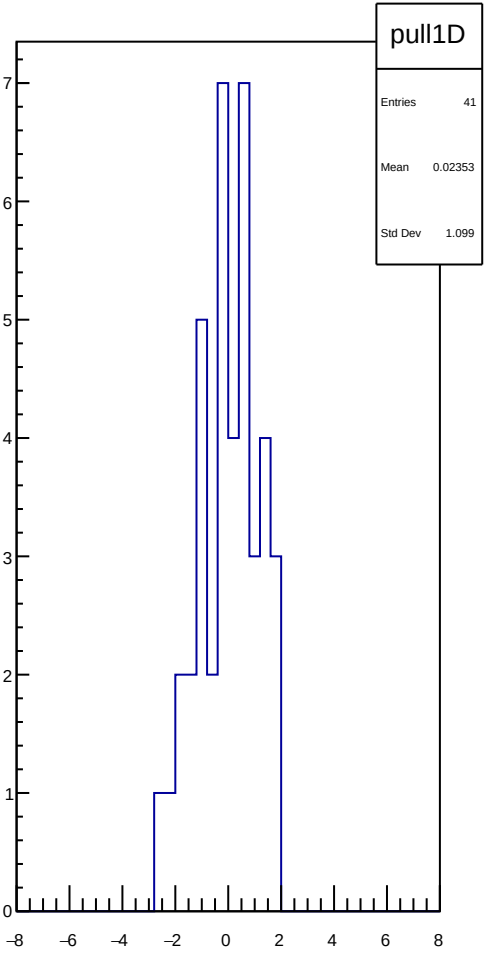
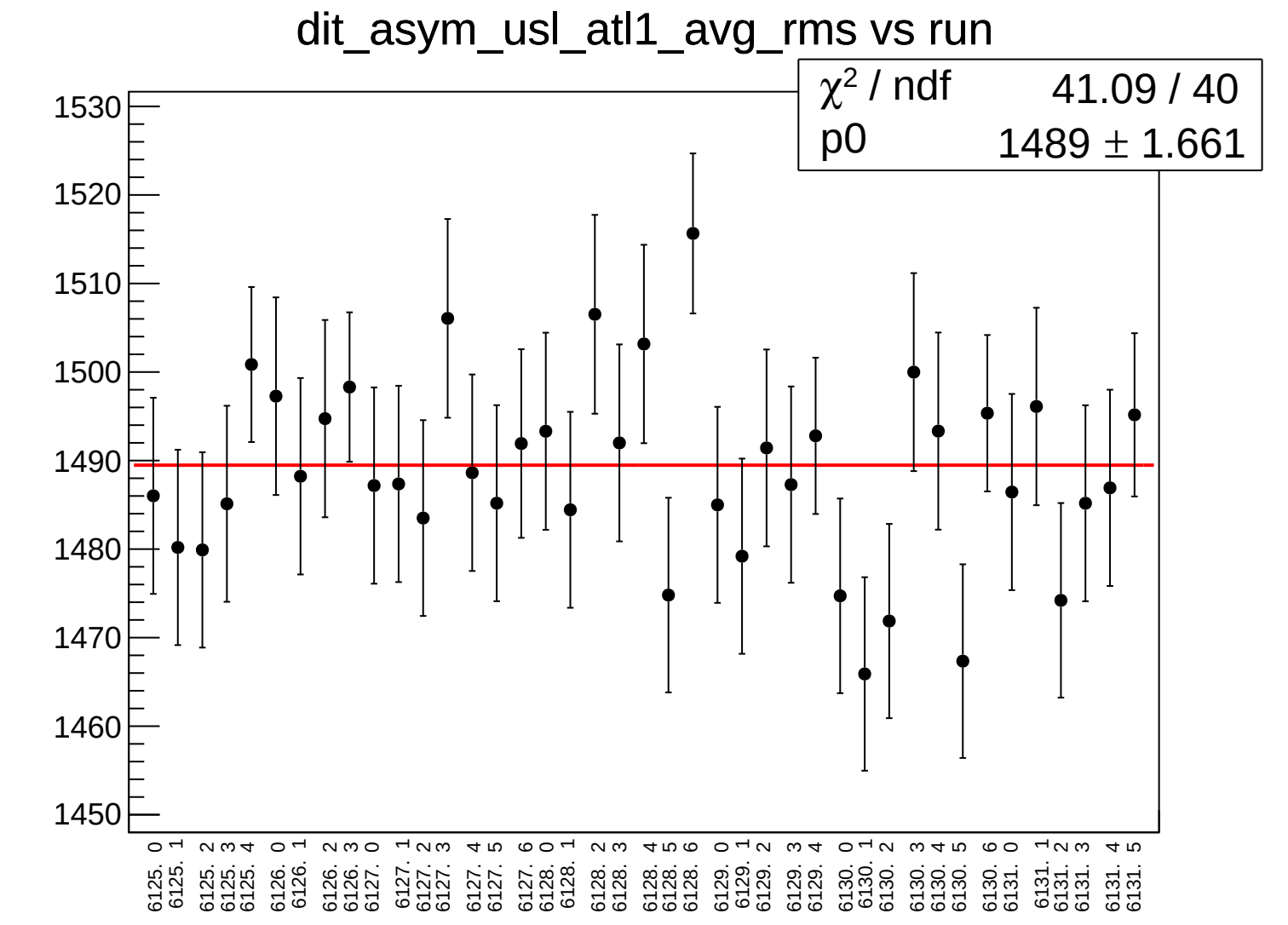
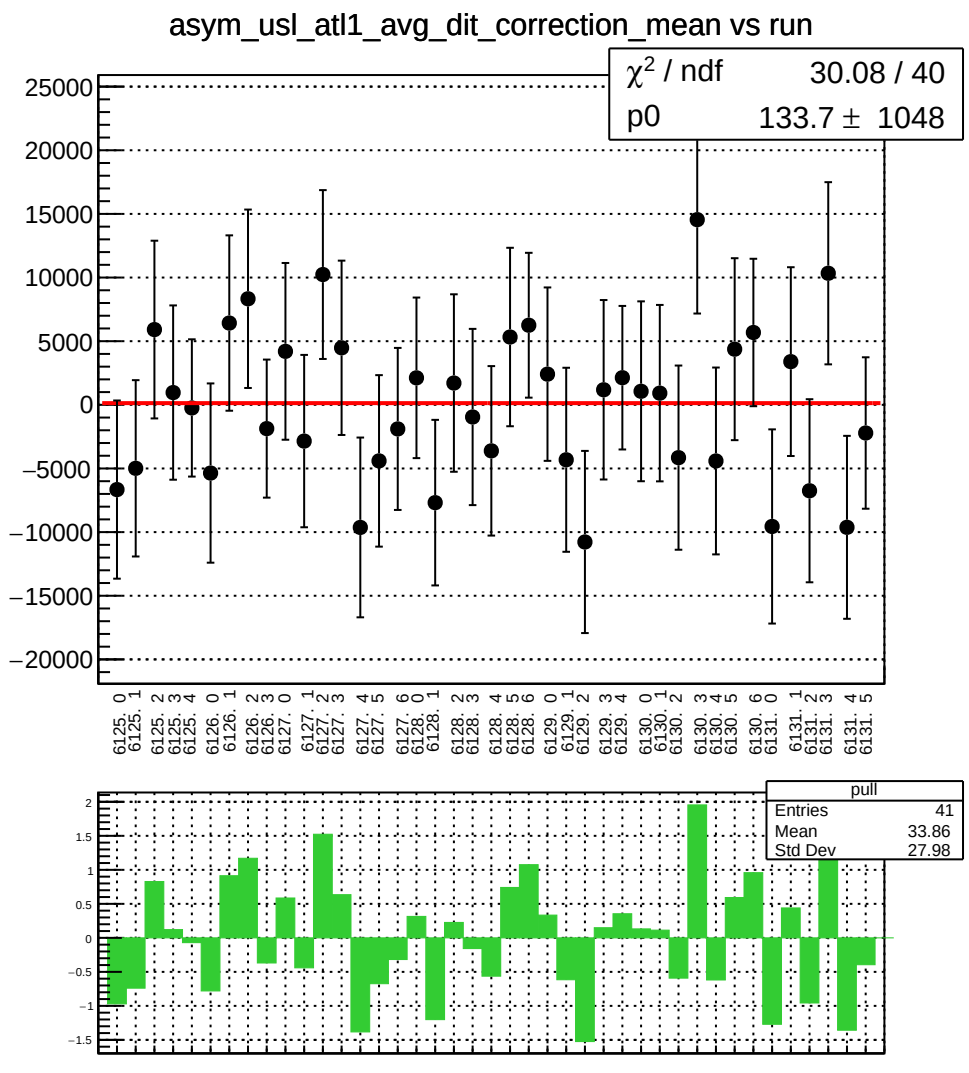
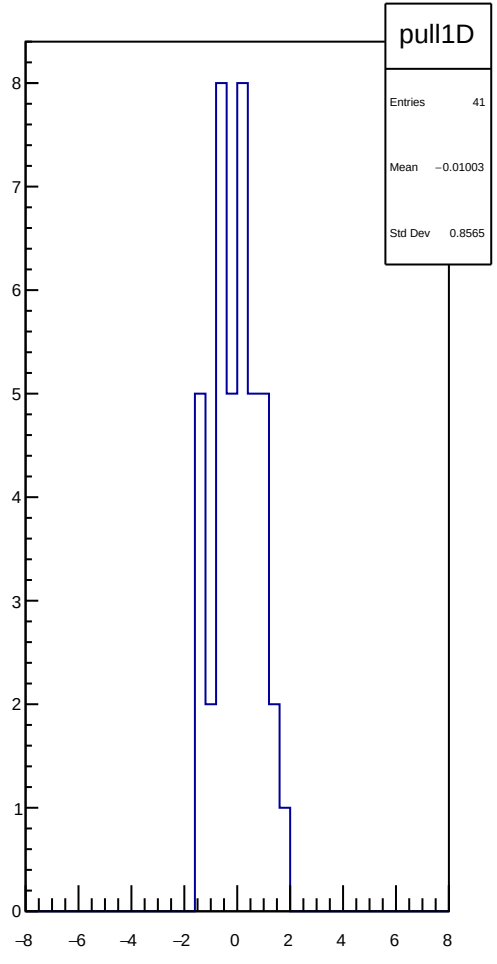
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

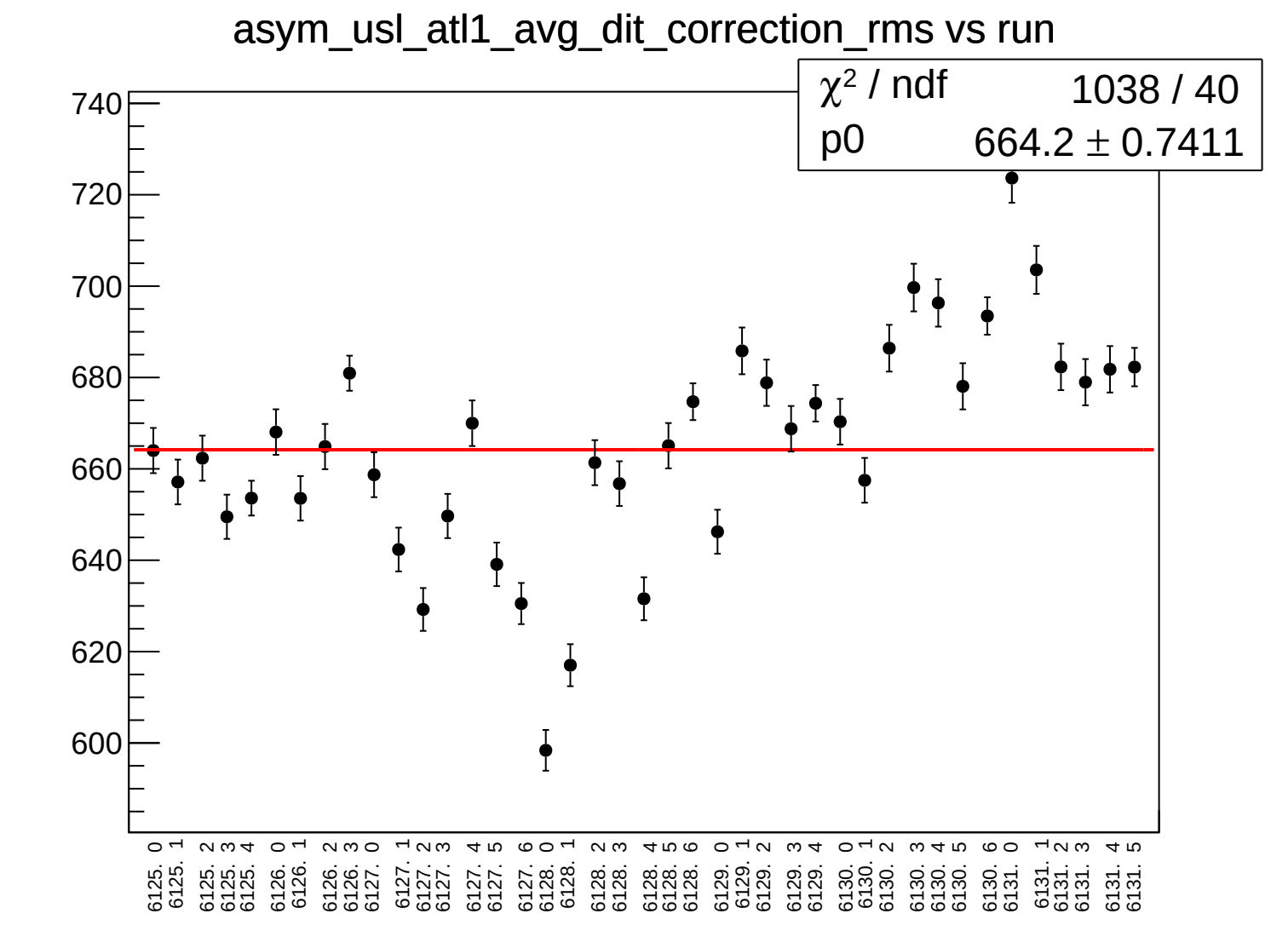

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 49.56 / 40
p0 4061 ± 2349
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 120.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

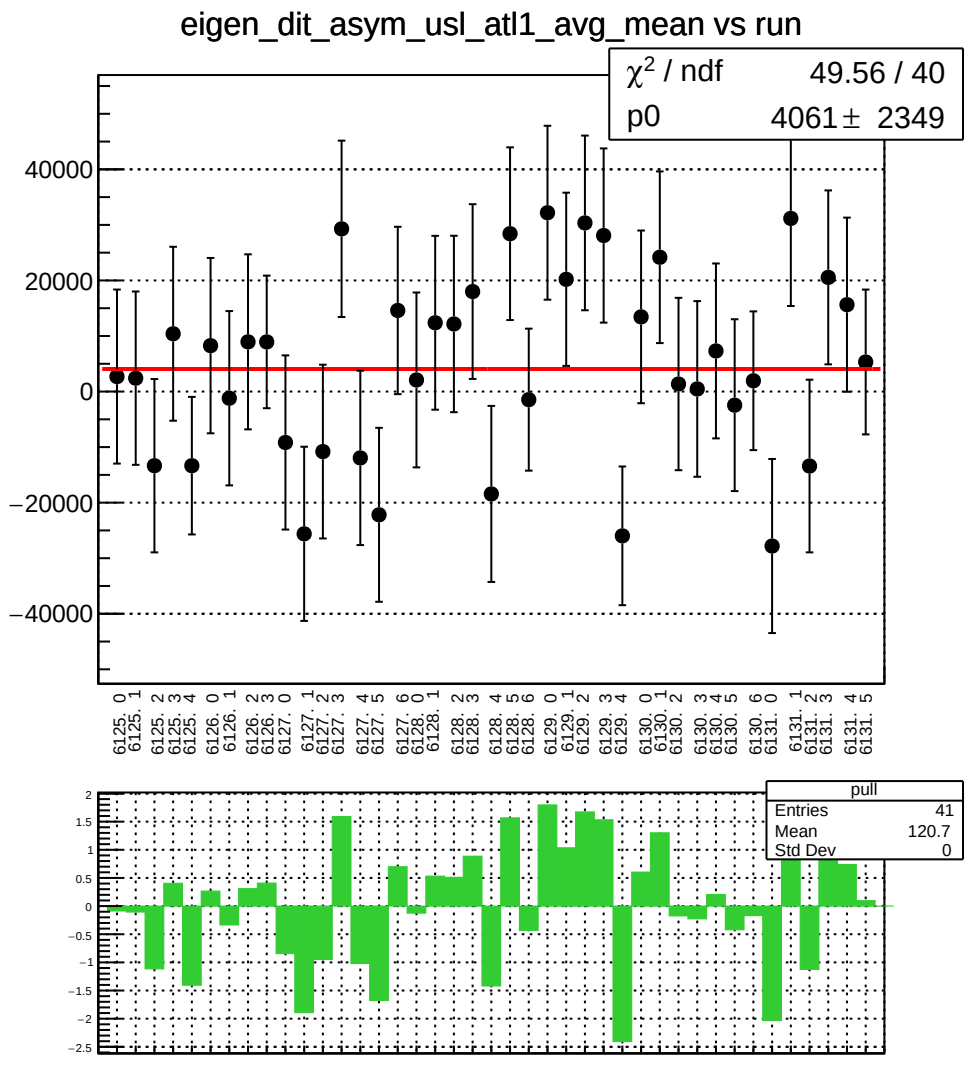

pull1D
Entries 41
Mean 0.02353
Std Dev 1.099
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

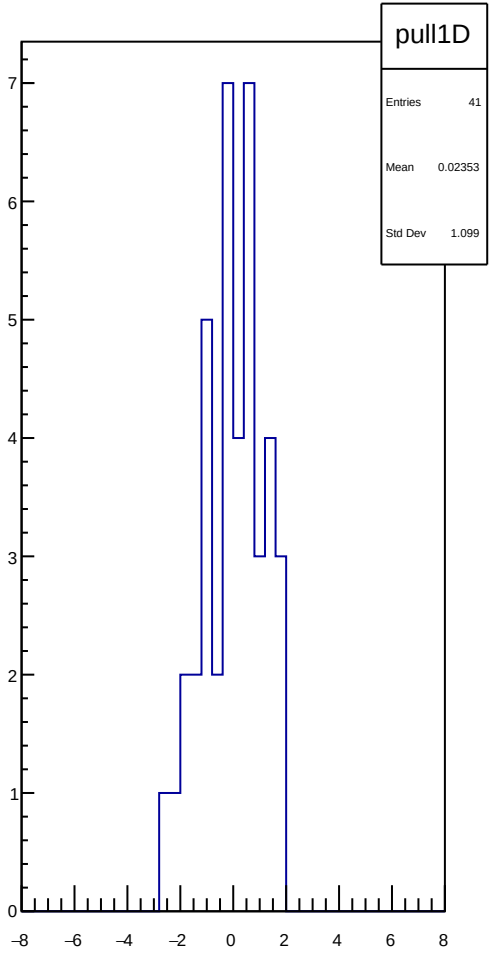

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 41.09 / 40
p0 1489 ± 1.661
1530
1520
1510
1500
1490
1480
1470
1460
1450
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 30.08 / 40
p0 133.7 ± 1048
pull
Entries 41
Mean 33.86
Std Dev 27.98


pull1D
Entries 41
Mean −0.01003
Std Dev 0.8565


asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 1038 / 40
p0 664.2 ± 0.7411
740
720
700
680
660
640
620
600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 49.56 / 40
p0 4061 ± 2349
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 120.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 41
Mean 0.02353
Std Dev 1.099
7
6
5
4
3
2
1
0
−8
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−4
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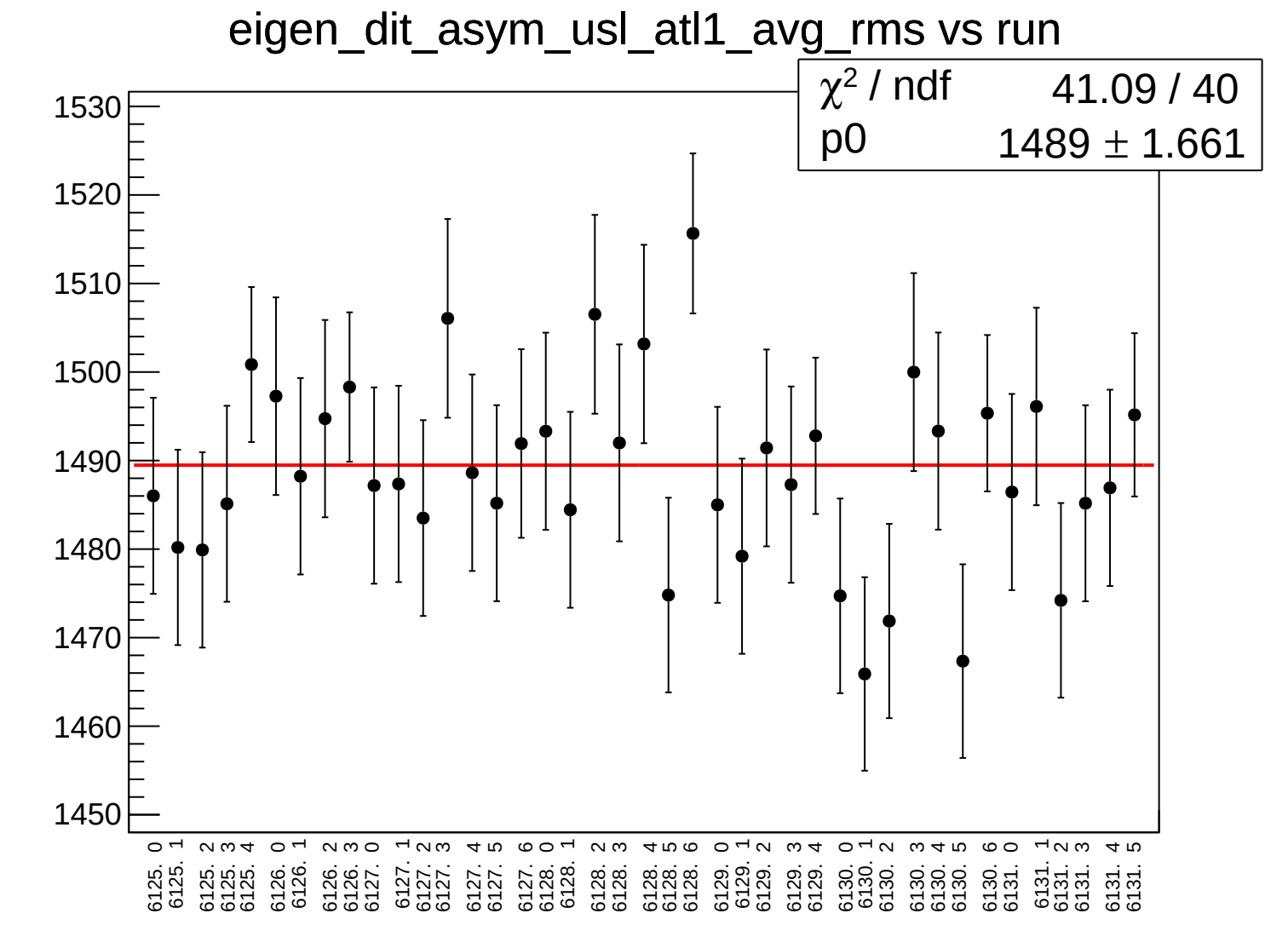
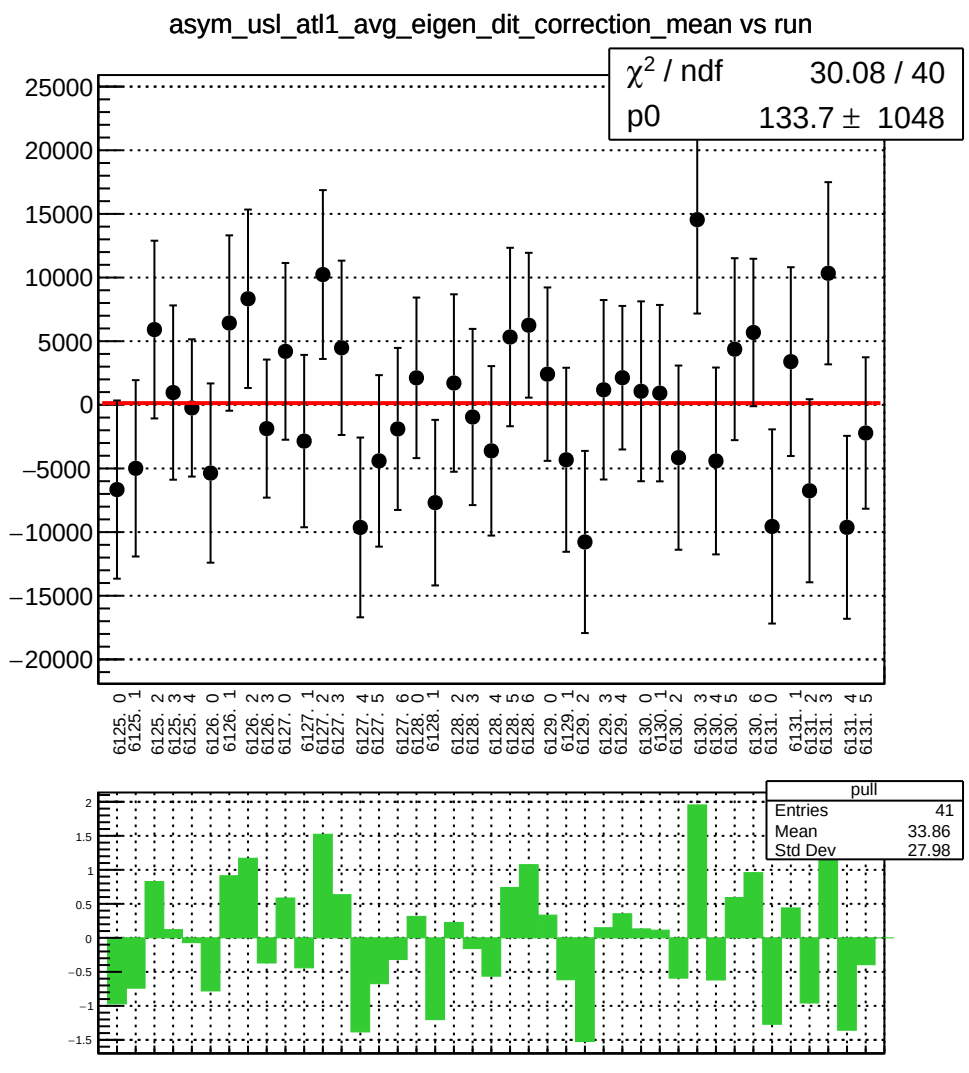
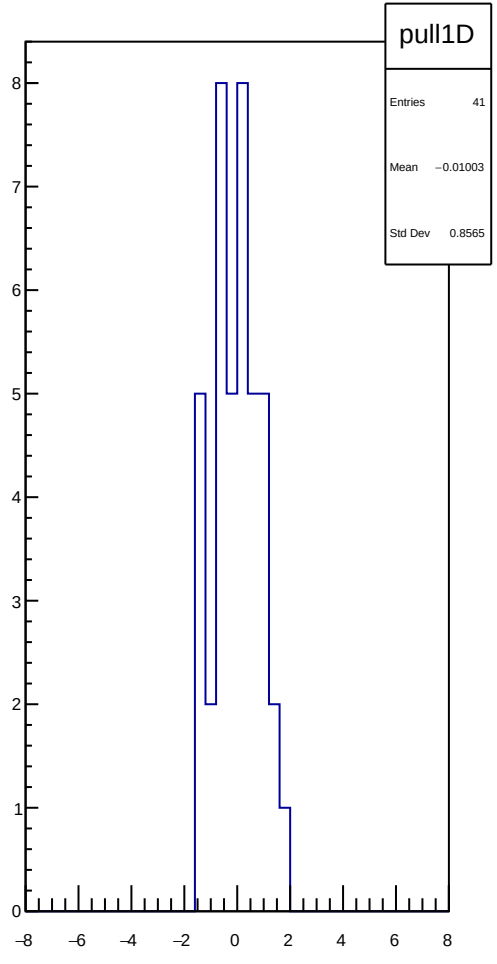
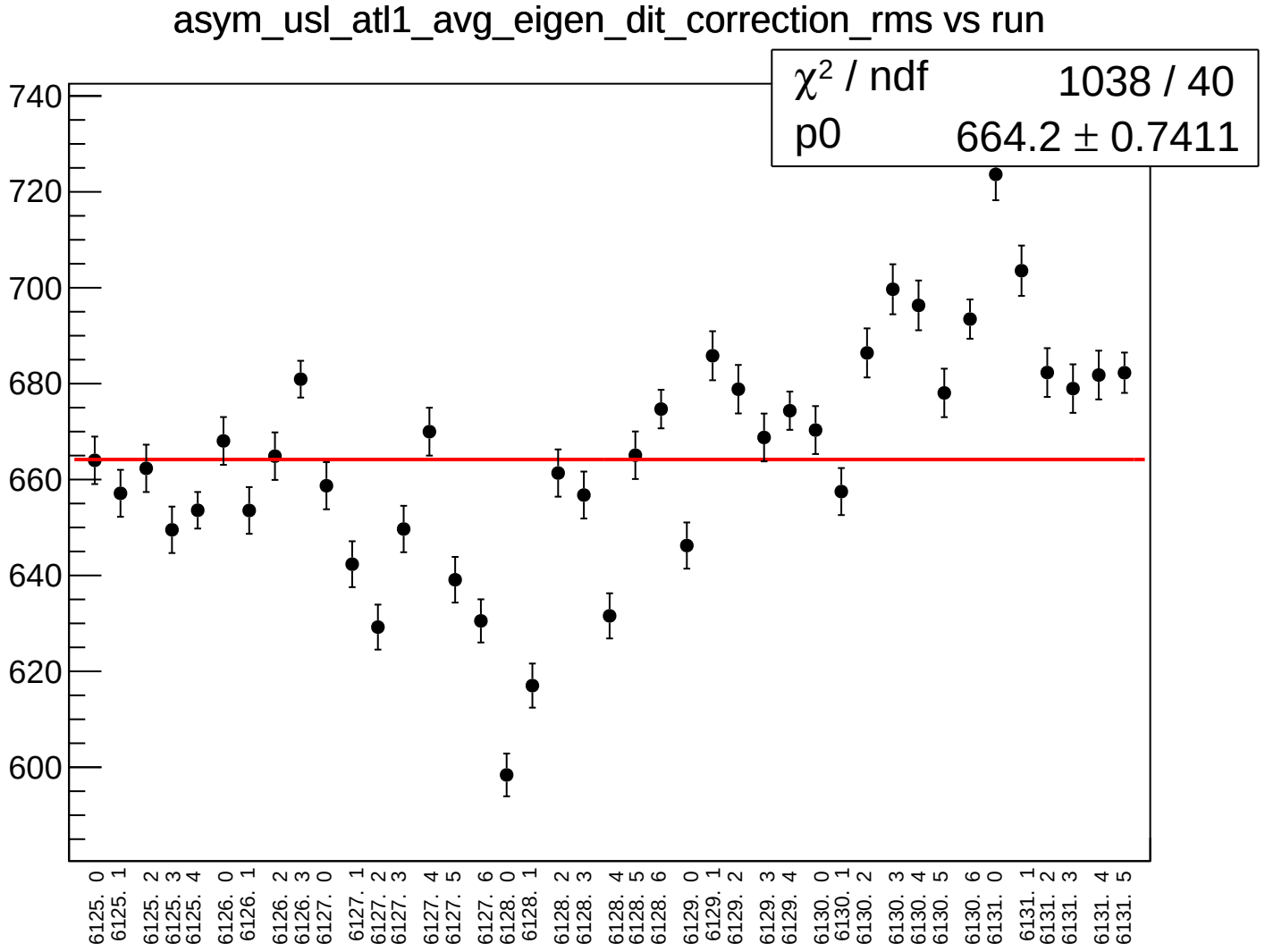
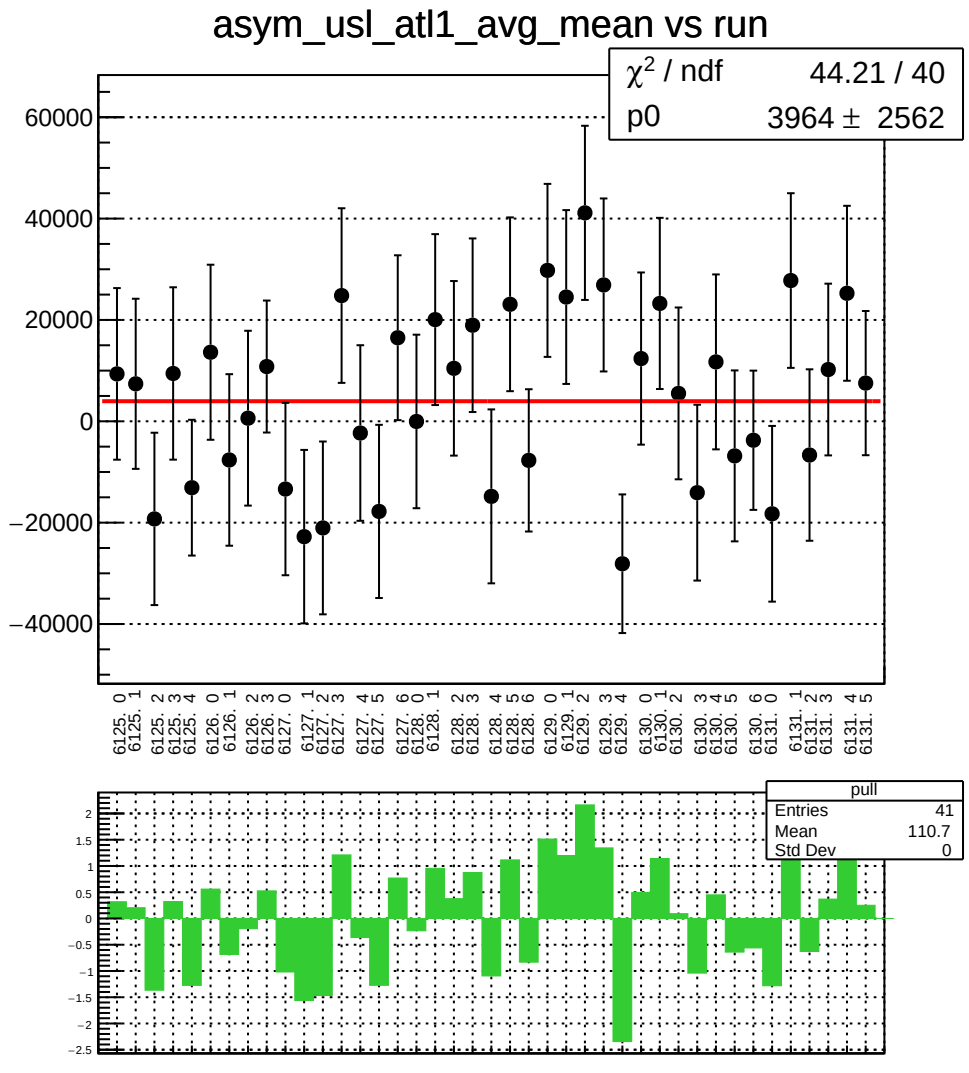
2
4
6
8


eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 41.09 / 40
p0 1489 ± 1.661
1530
1520
1510
1500
1490
1480
1470
1460
1450
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 30.08 / 40
p0 133.7 ± 1048
pull
Entries 41
Mean 33.86
Std Dev 27.98


pull1D
Entries 41
Mean −0.01003
Std Dev 0.8565


asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1038 / 40
p0 664.2 ± 0.7411
740
720
700
680
660
640
620
600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_usl_atl1_avg_mean vs run
χ² / ndf 44.21 / 40
p0 3964 ± 2562
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
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6129. 0
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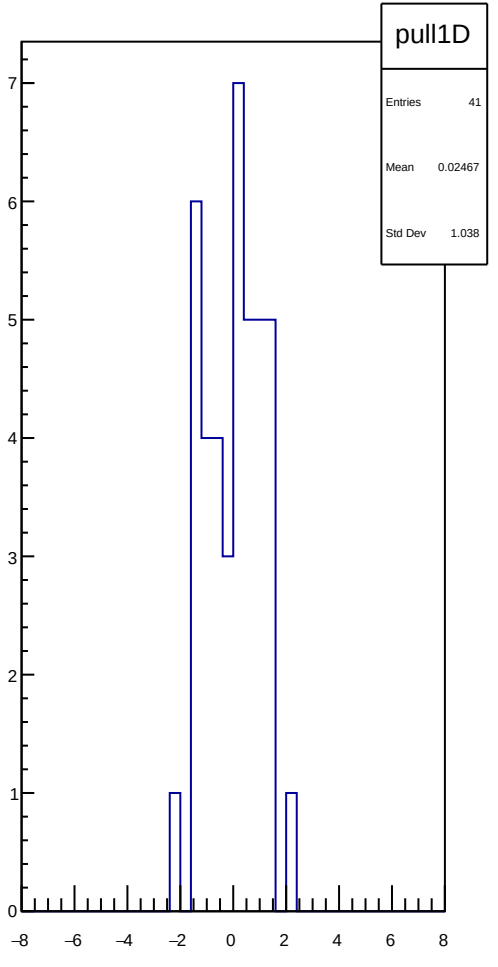
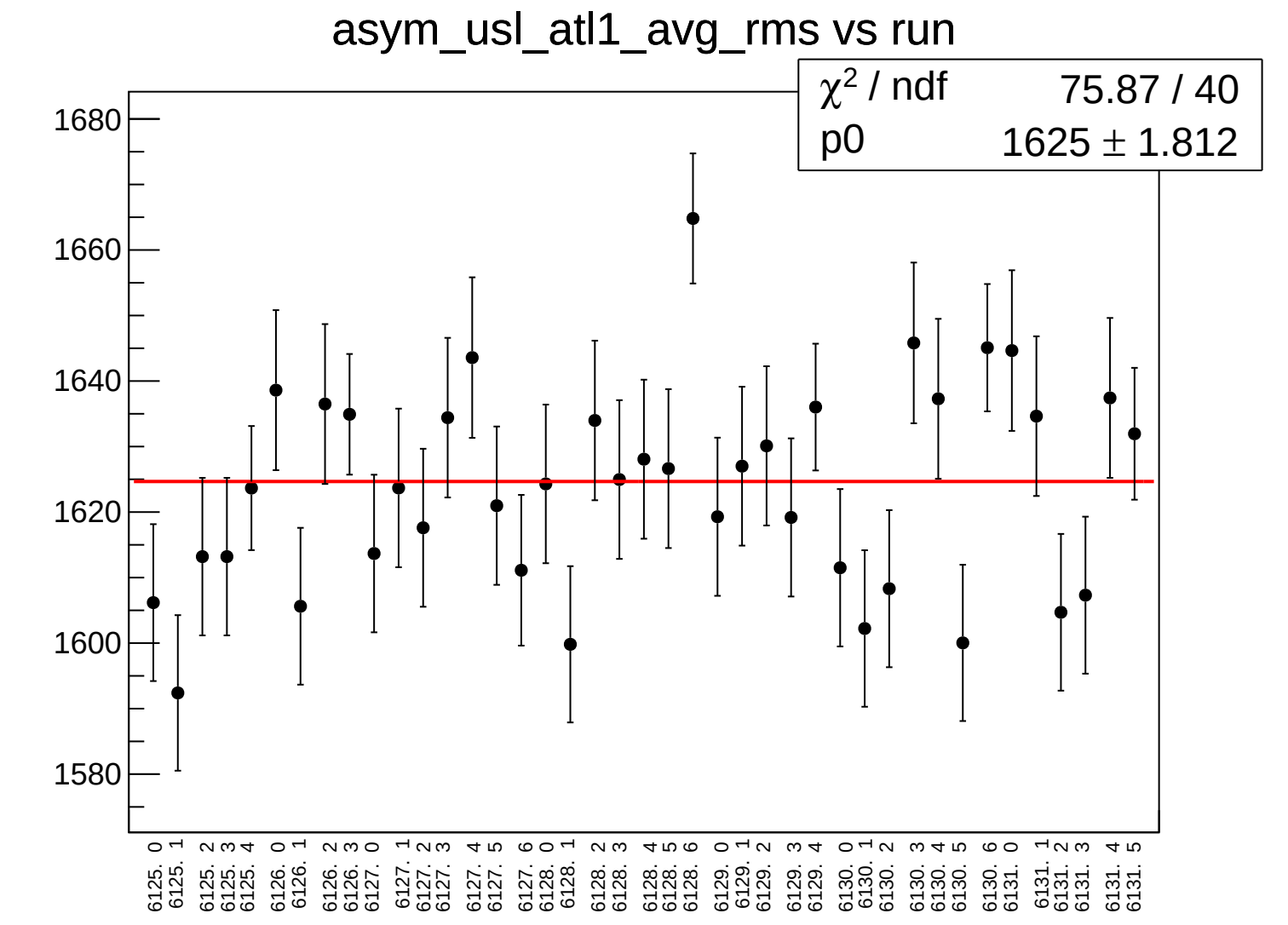
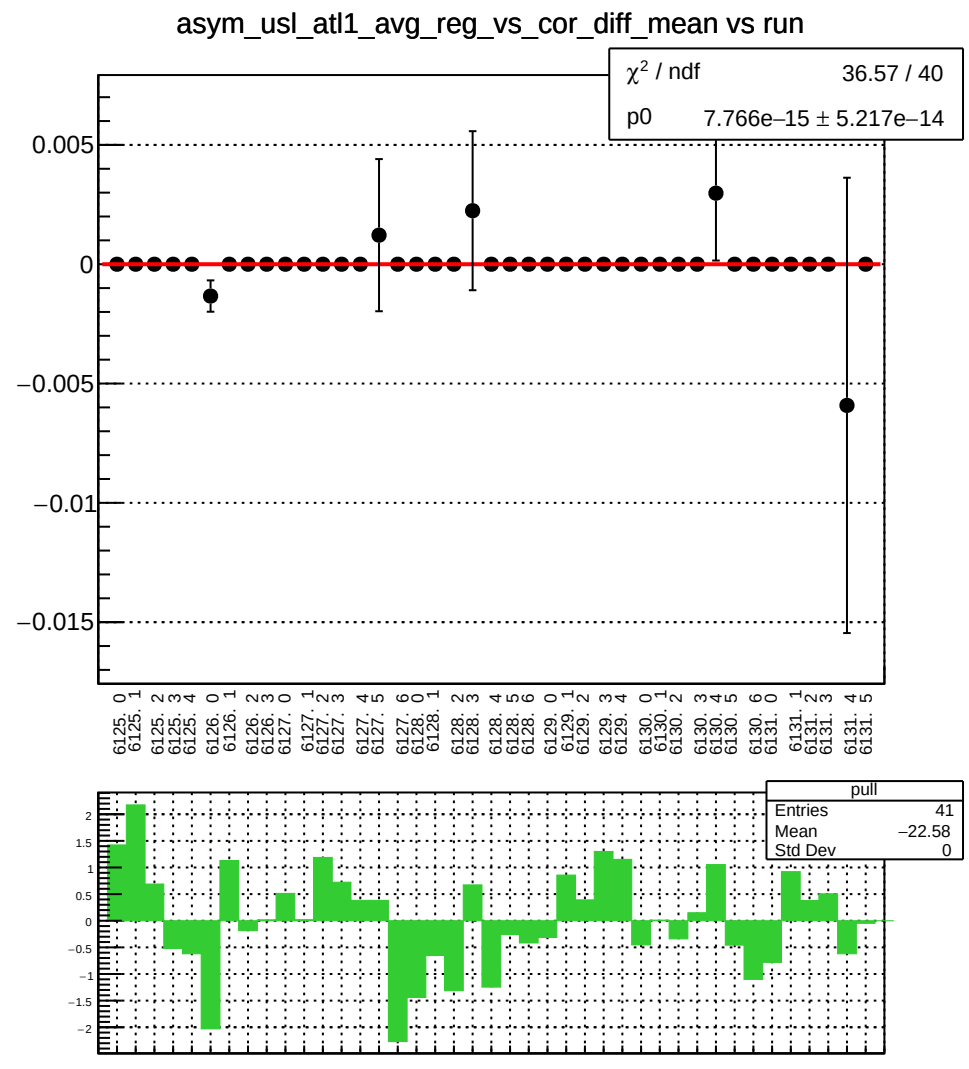
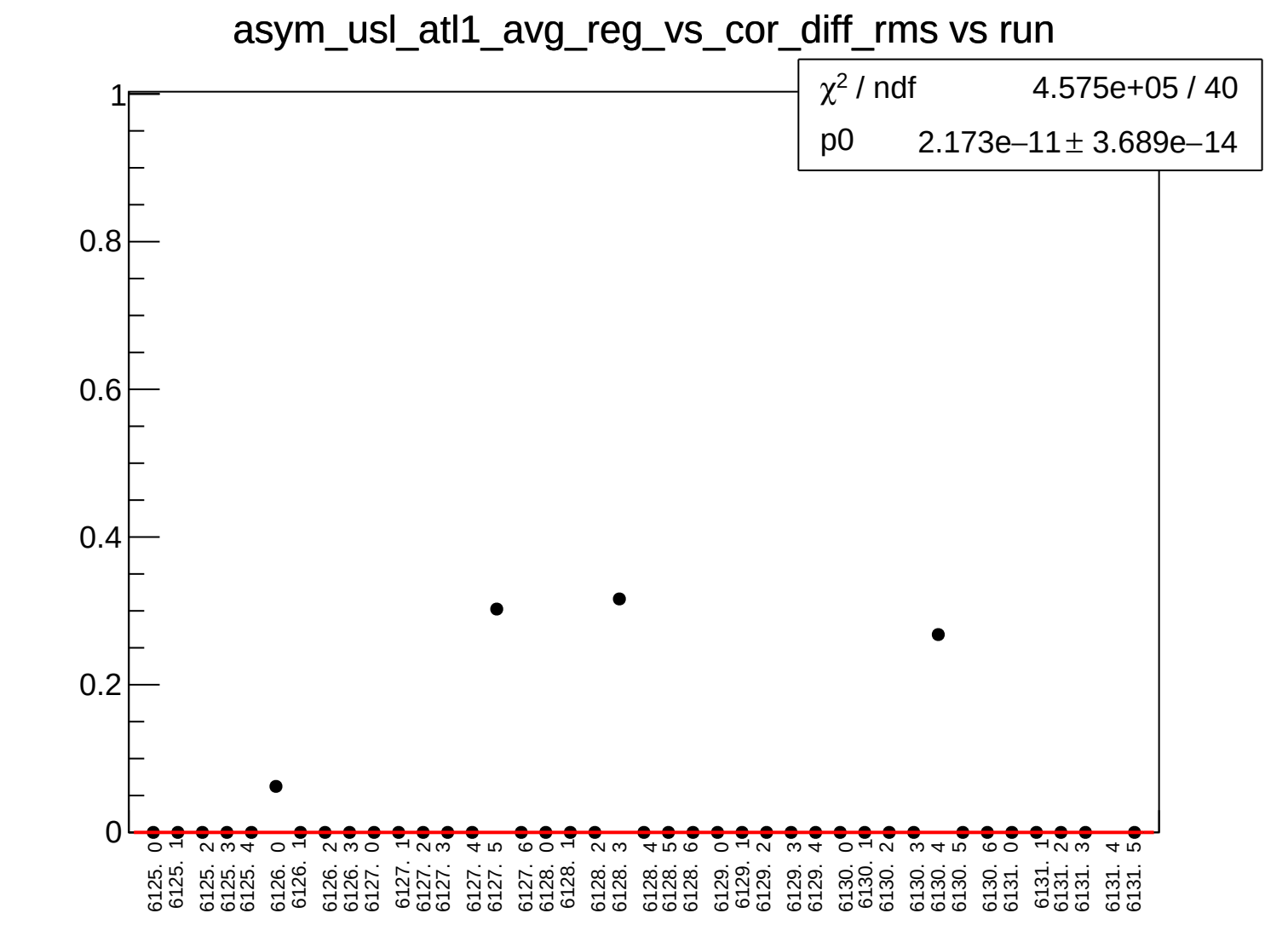
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 110.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

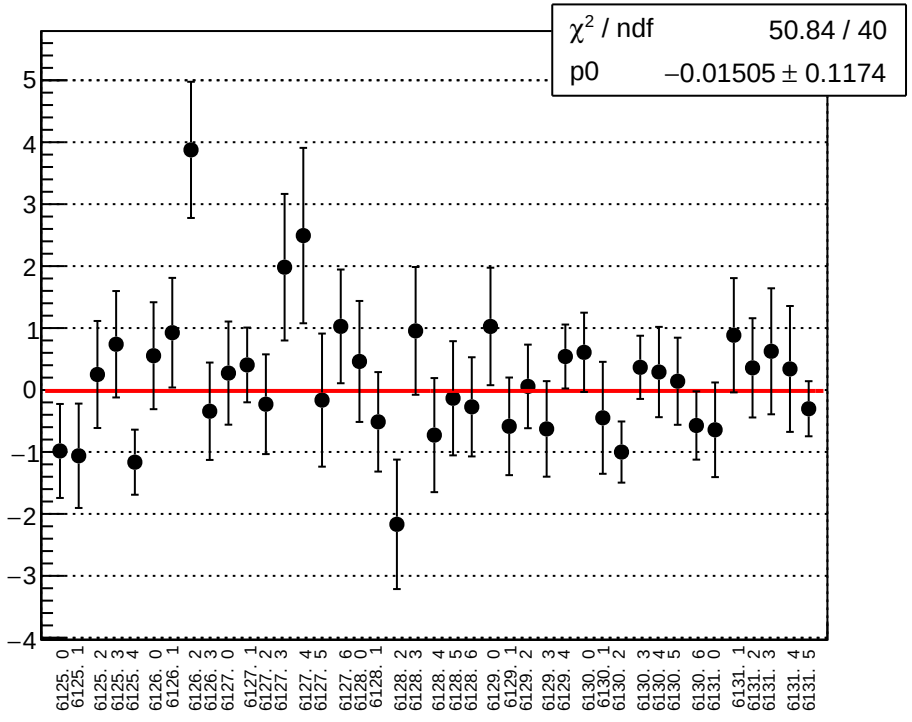

pull1D
Entries 41
Mean 0.02467
Std Dev 1.038
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

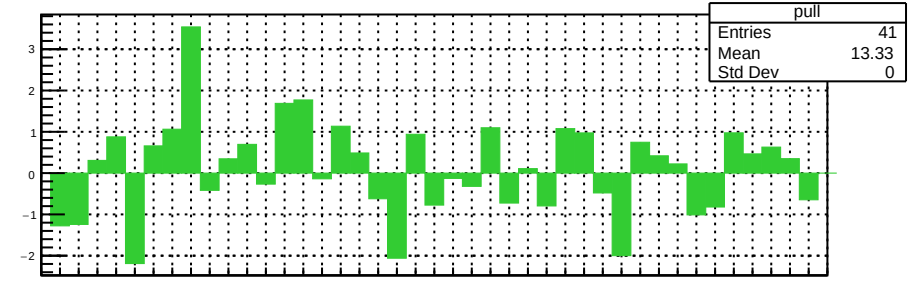

asym_usl_atl1_avg_rms vs run
χ² / ndf 75.87 / 40
p0 1625 ± 1.812
1680
1660
1640
1620
1600
1580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

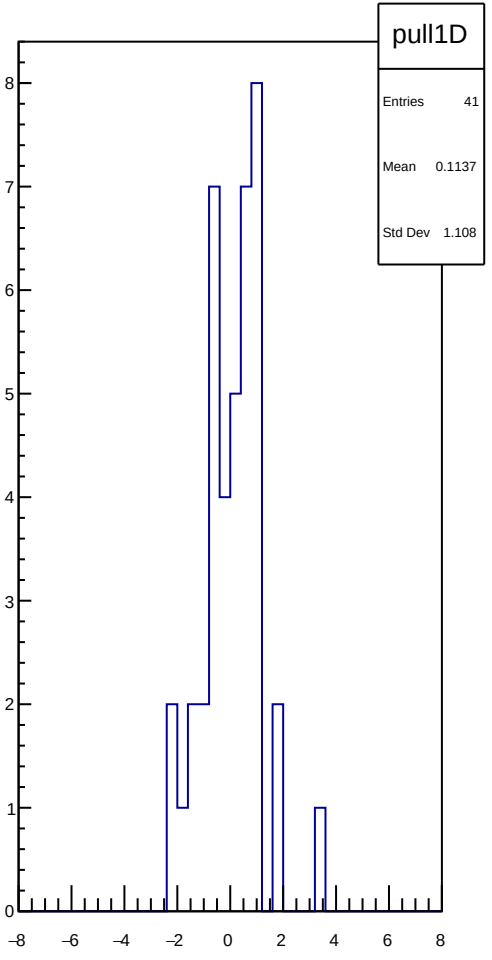

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 36.57 / 40
p0 7.766e−15 ± 5.217e−14
0.005
0
−0.005
−0.01
−0.015
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −22.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.02366
Std Dev 0.9441
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

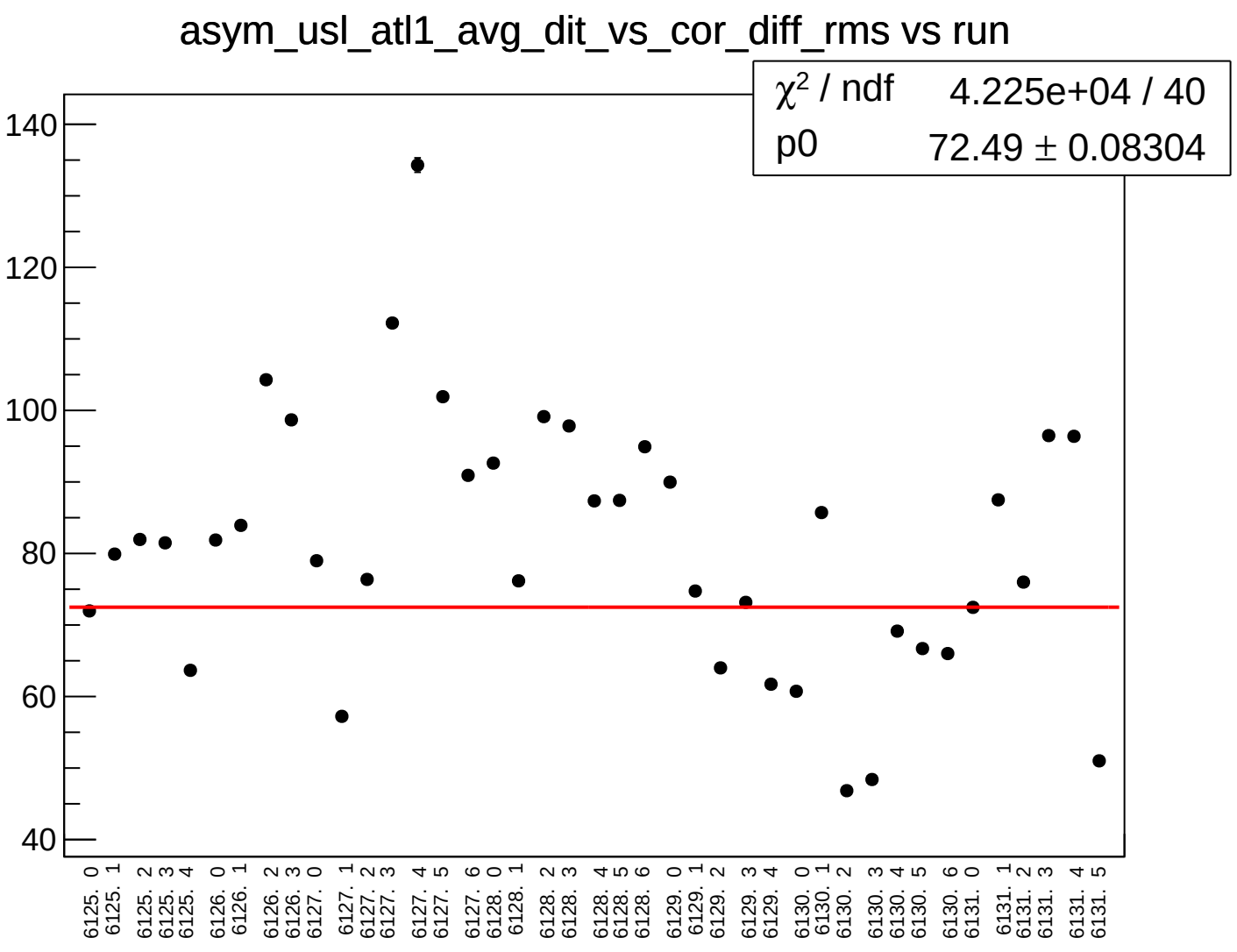

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.575e+05 / 40
p0 2.173e−11 ± 3.689e−14
1
0.8
0.6
0.4
0.2
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

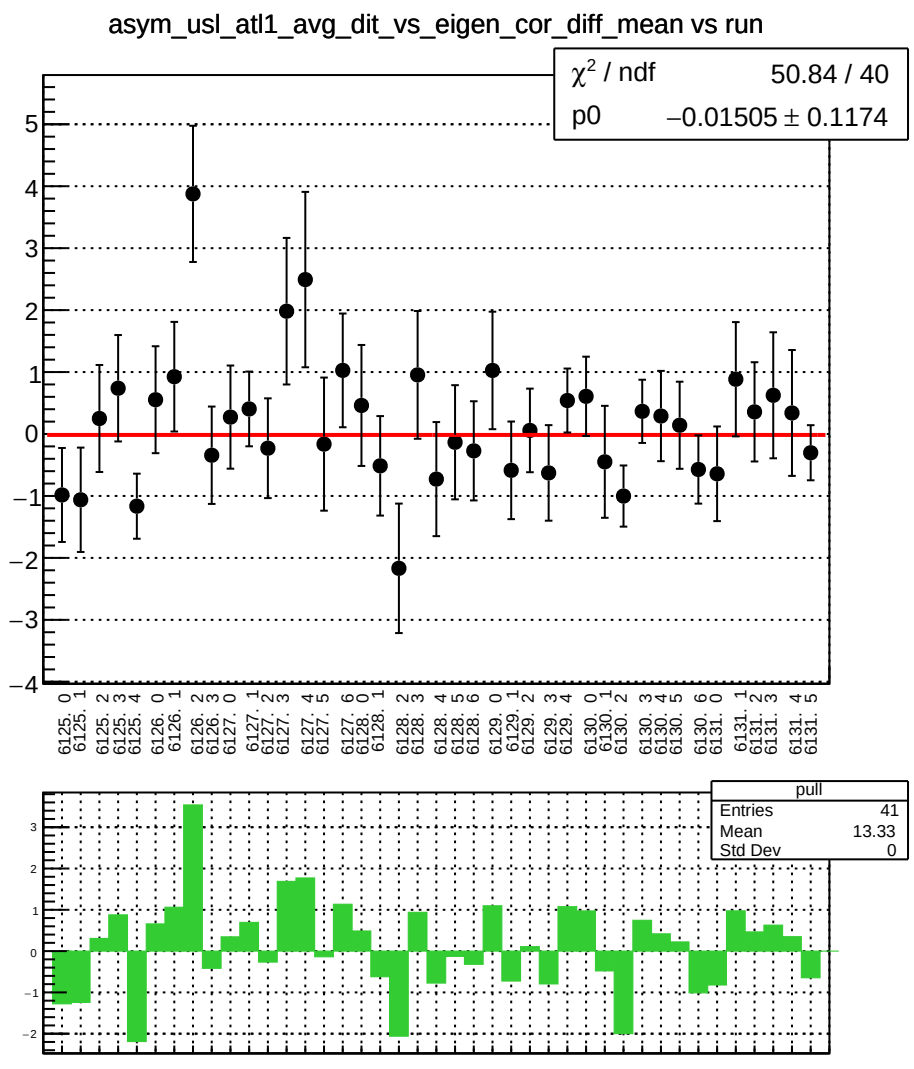
asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run

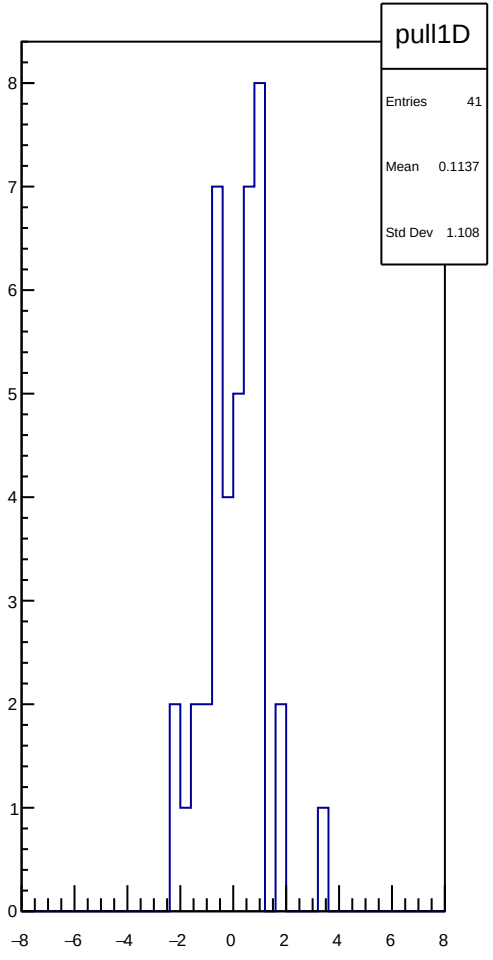


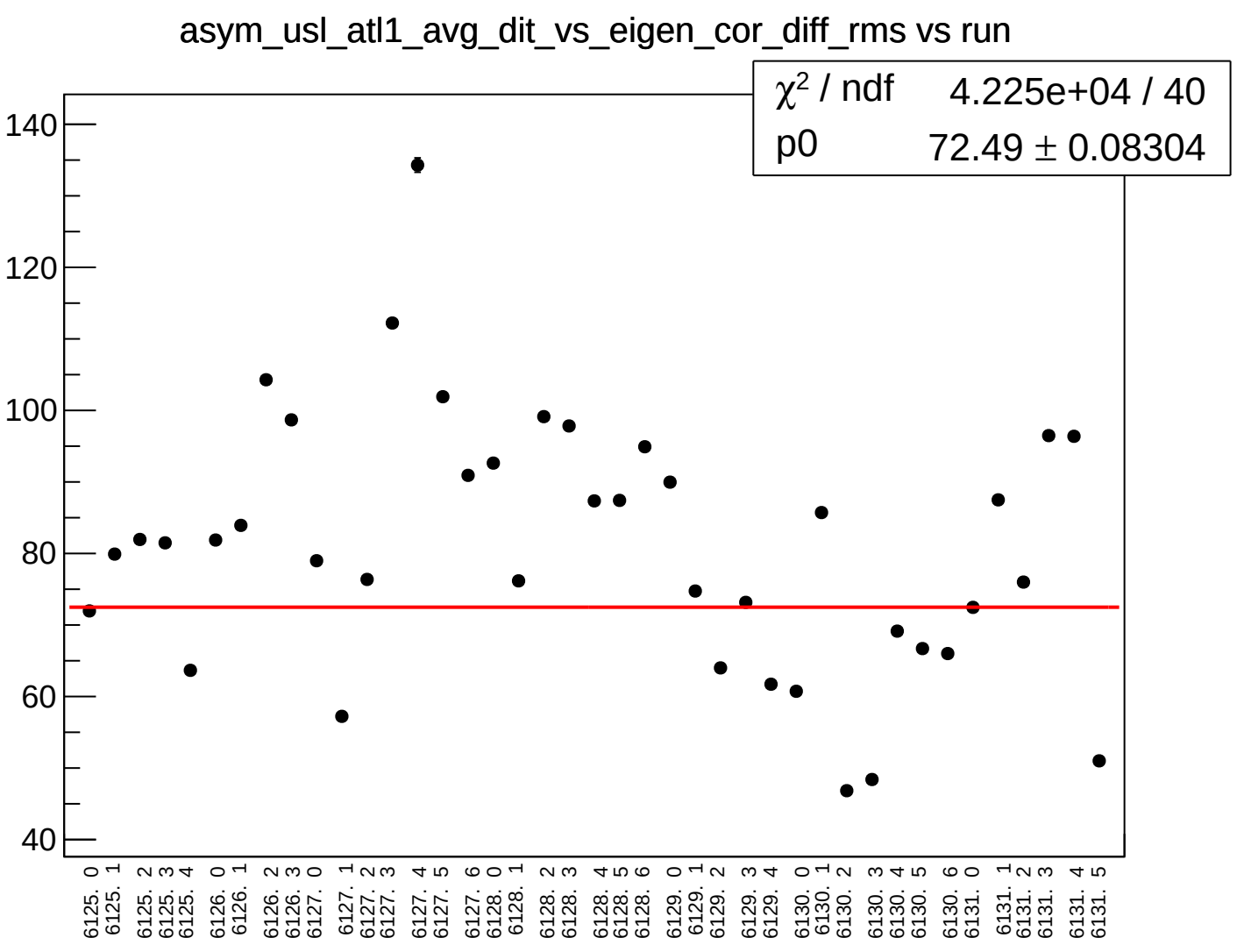


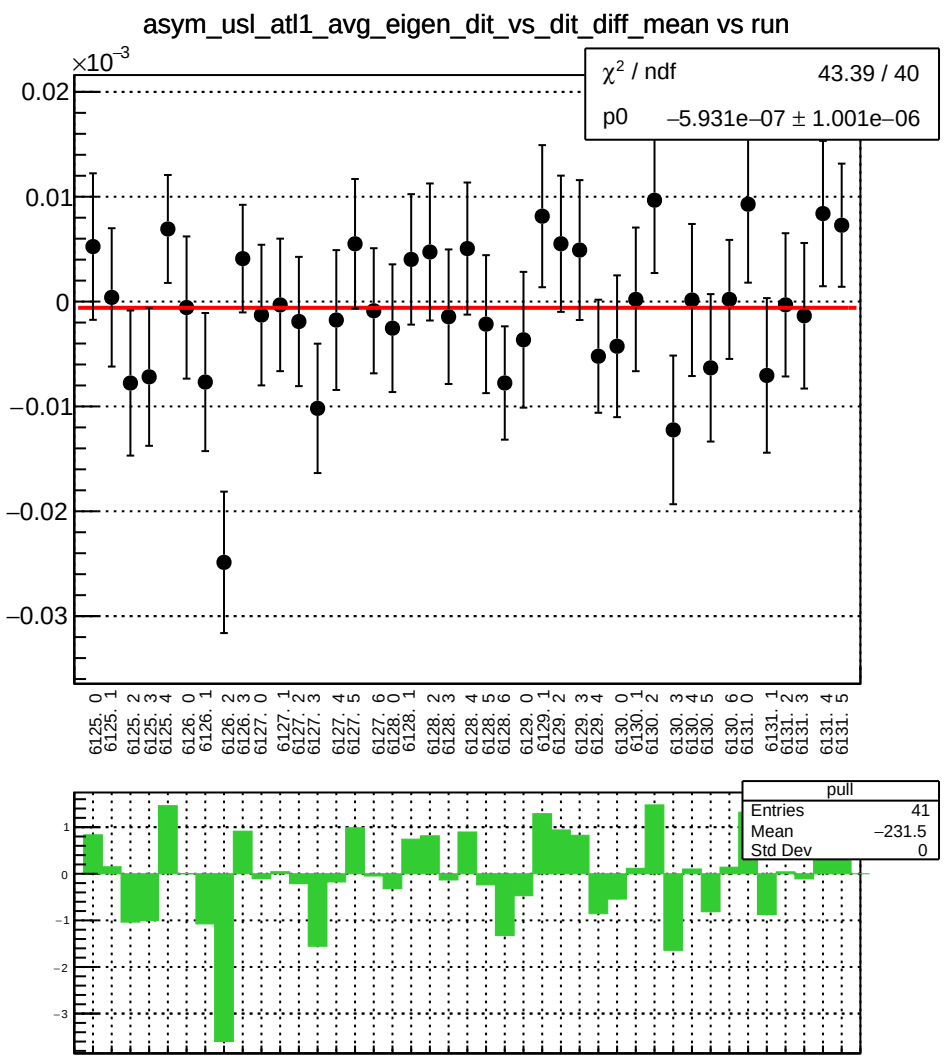


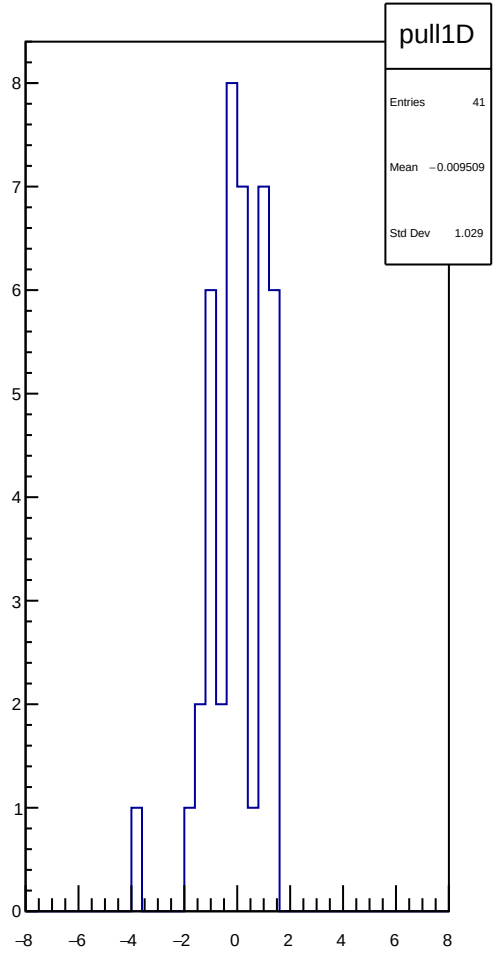

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.225e+04 / 40
p0 72.49 ± 0.08304
140
120
100
80
60
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

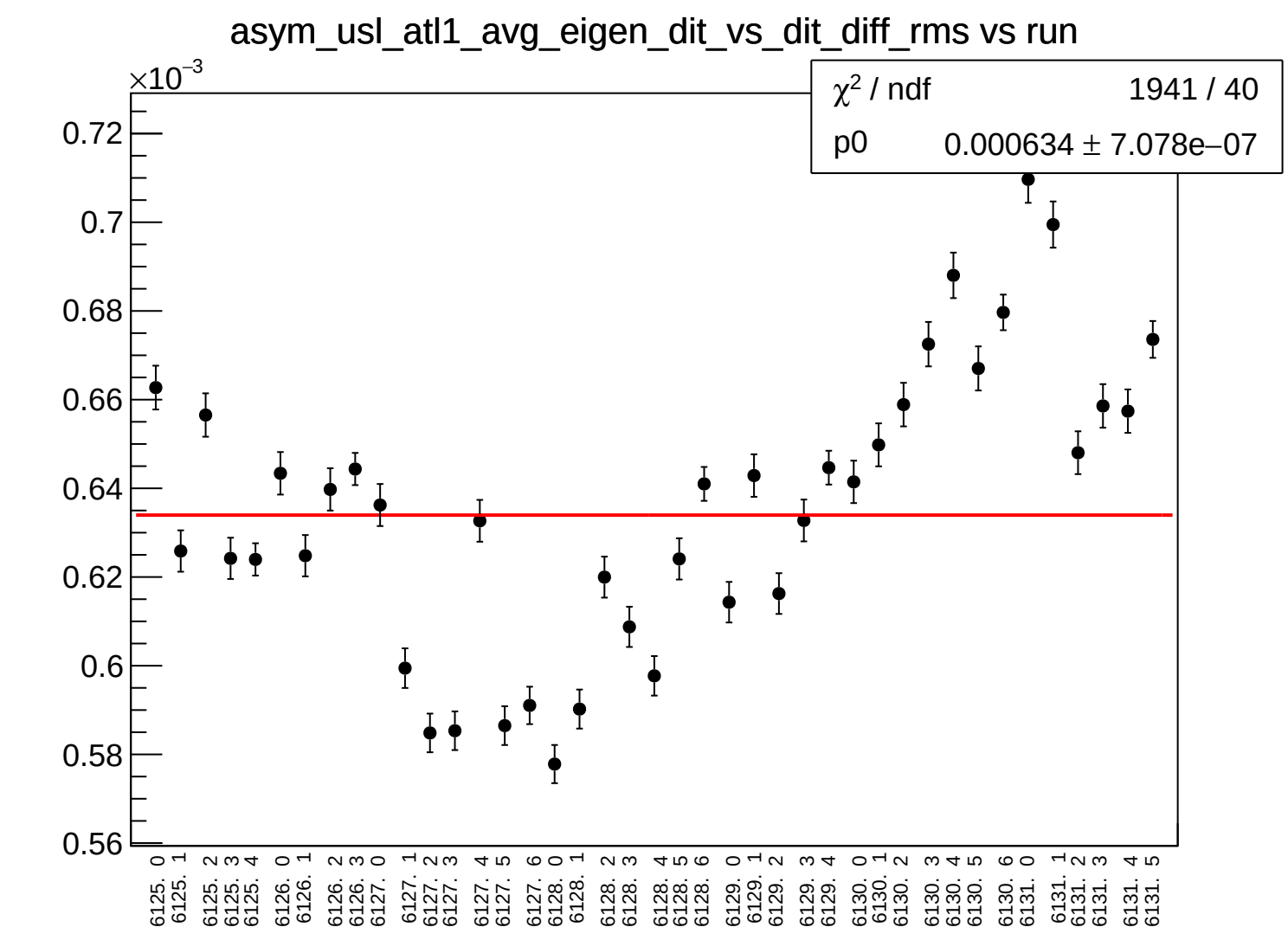

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.84 / 40
p0 −0.01505 ± 0.1174
pull
Entries 41
Mean 13.33
Std Dev 0

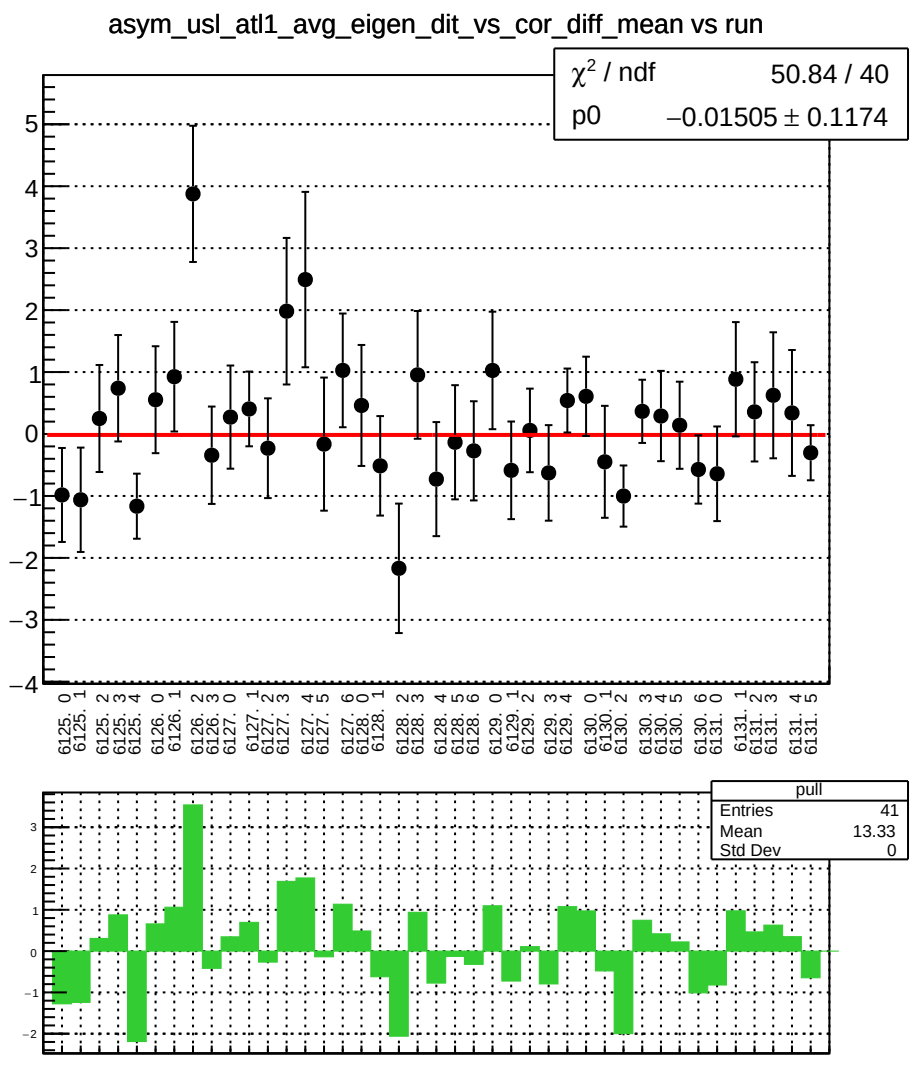

pull1D
Entries 41
Mean 0.1137
Std Dev 1.108

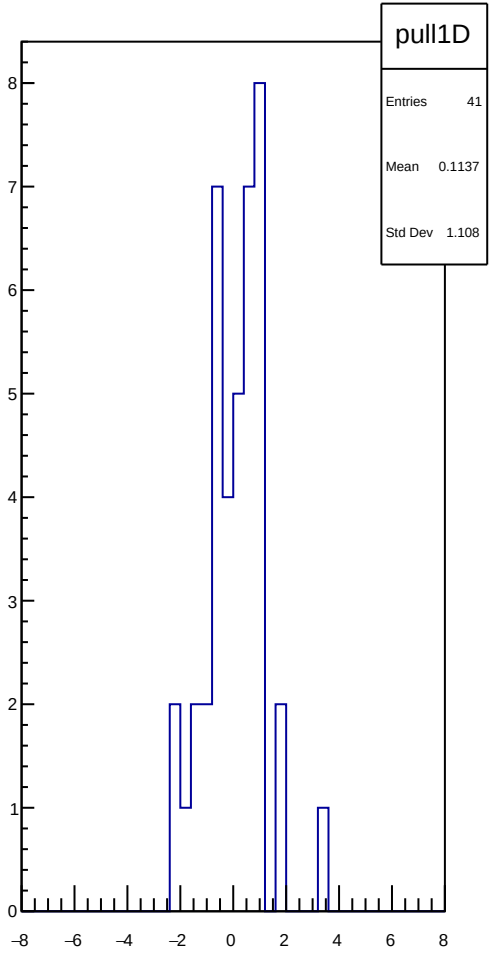

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.225e+04 / 40
p0 72.49 ± 0.08304
140
120
100
80
60
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

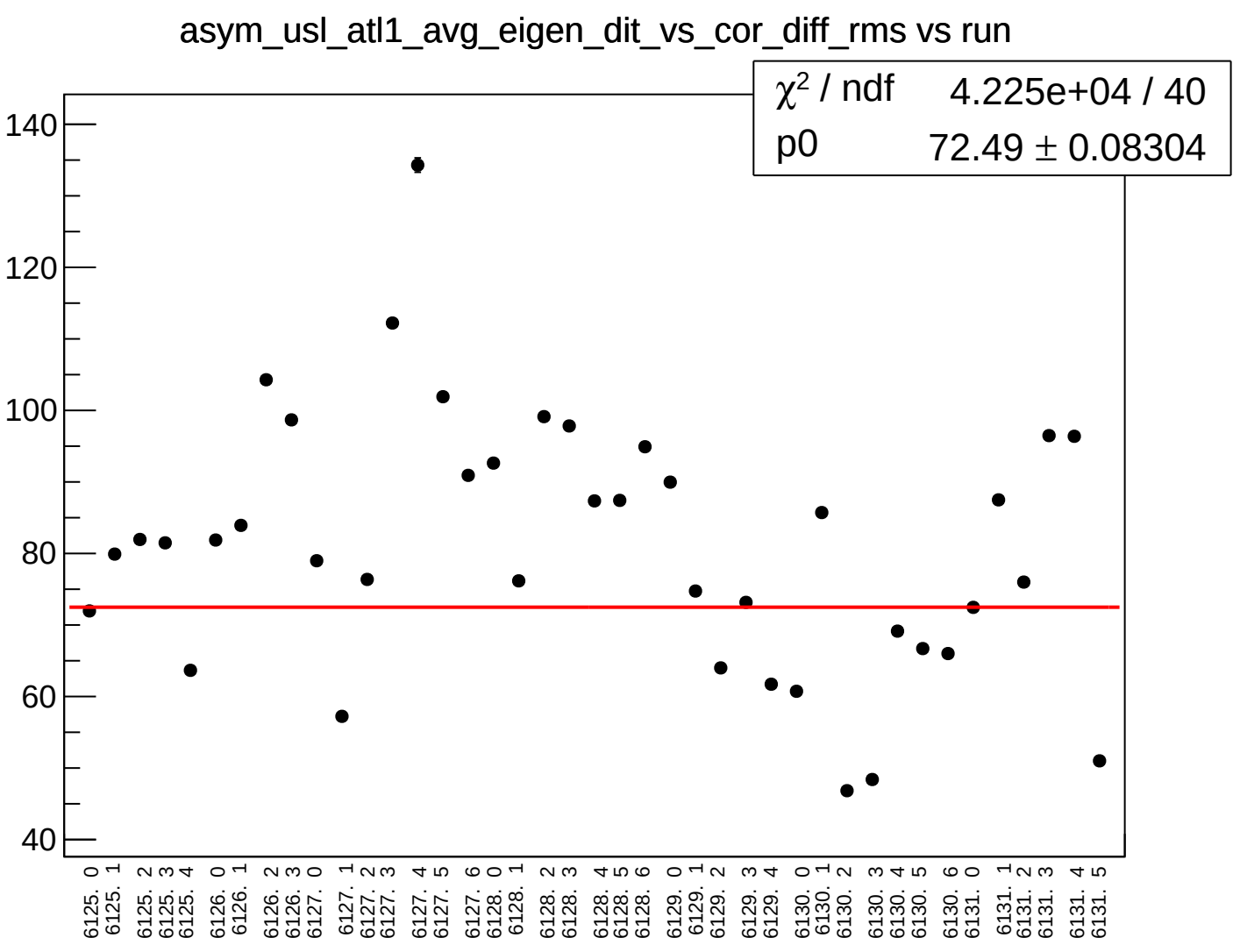

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 43.39 / 40
p0 −5.931e−07 ± 1.001e−06
0.02
0.01
0
−0.01
−0.02
−0.03
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −231.5
Std Dev 0
1
0
−1
−2
−3

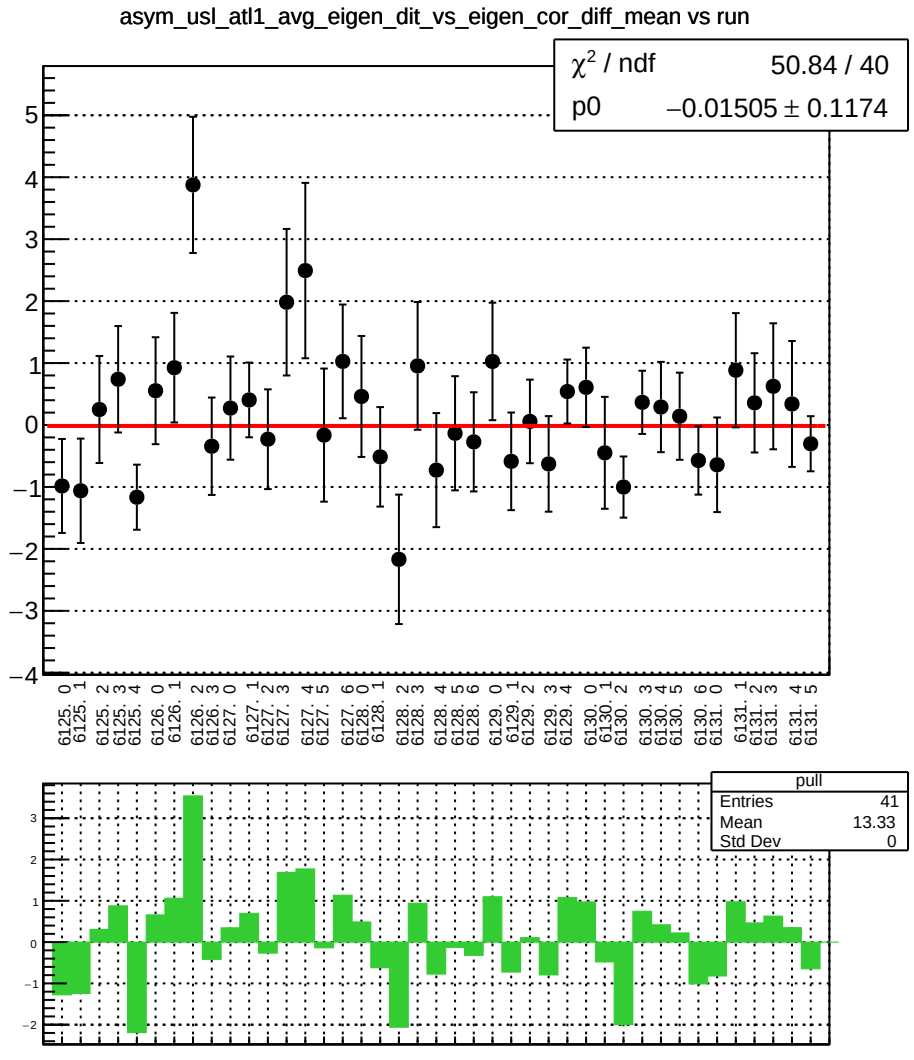

pull1D
Entries 41
Mean −0.009509
Std Dev 1.029
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

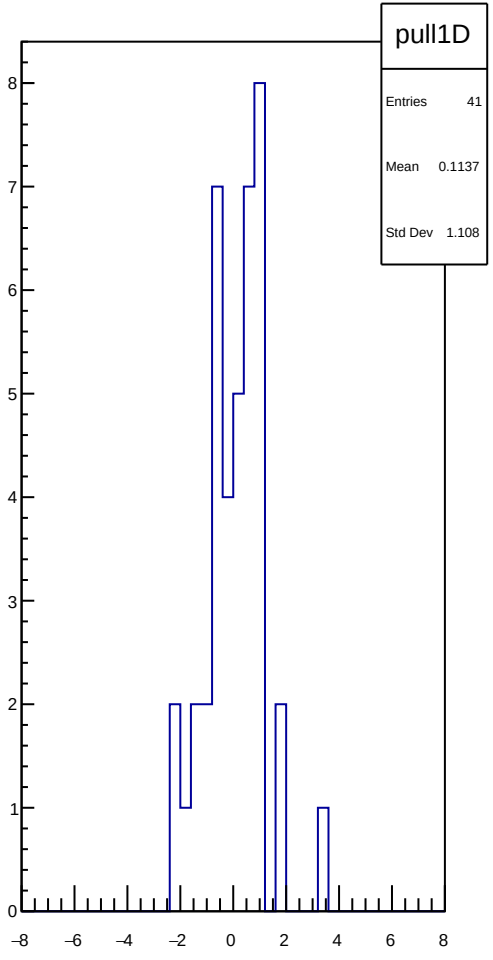

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1941 / 40
p0 0.000634 ± 7.078e−07
0.72
0.7
0.68
0.66
0.64
0.62
0.6
0.58
0.56
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

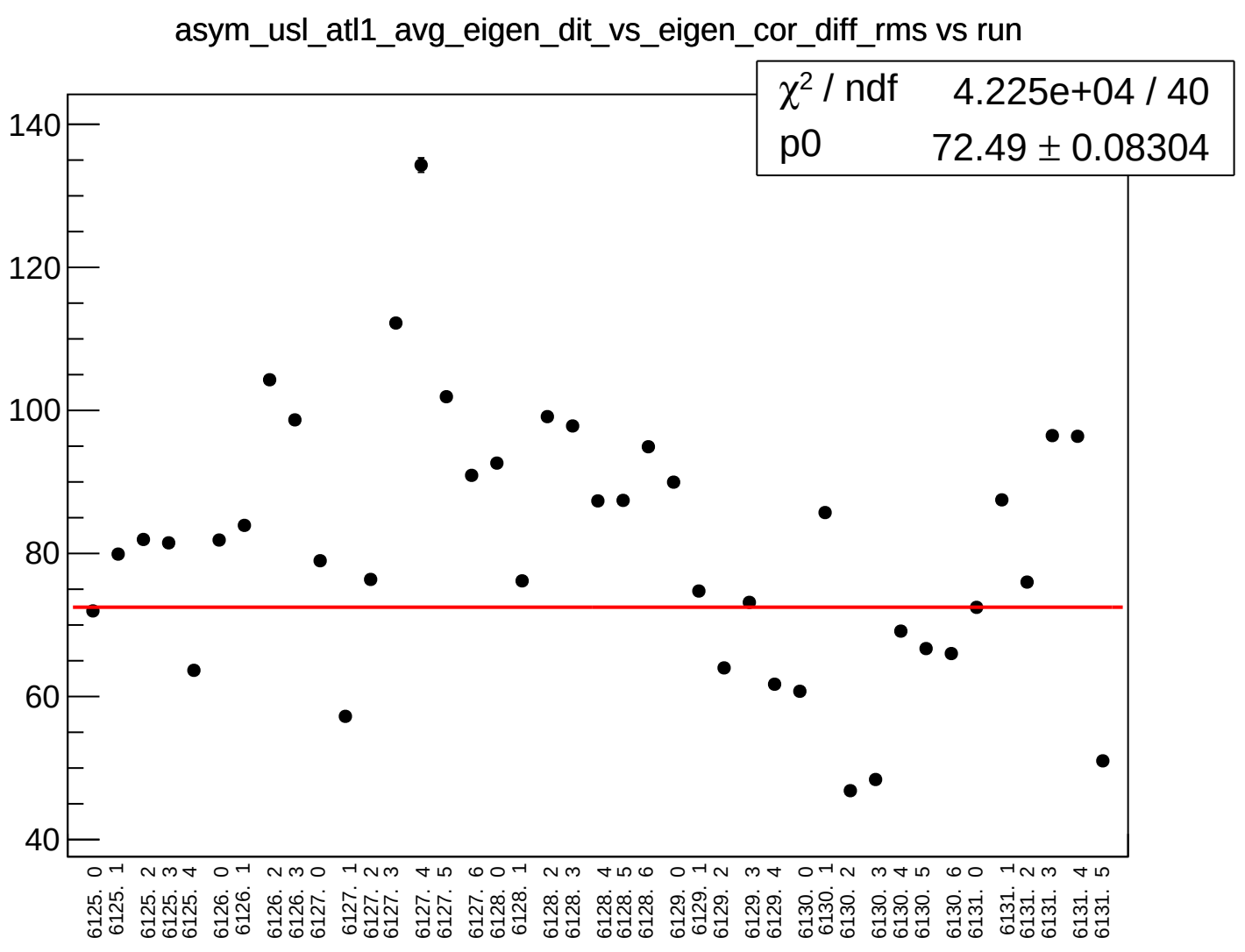

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 50.84 / 40
p0 −0.01505 ± 0.1174
pull
Entries 41
Mean 13.33
Std Dev 0

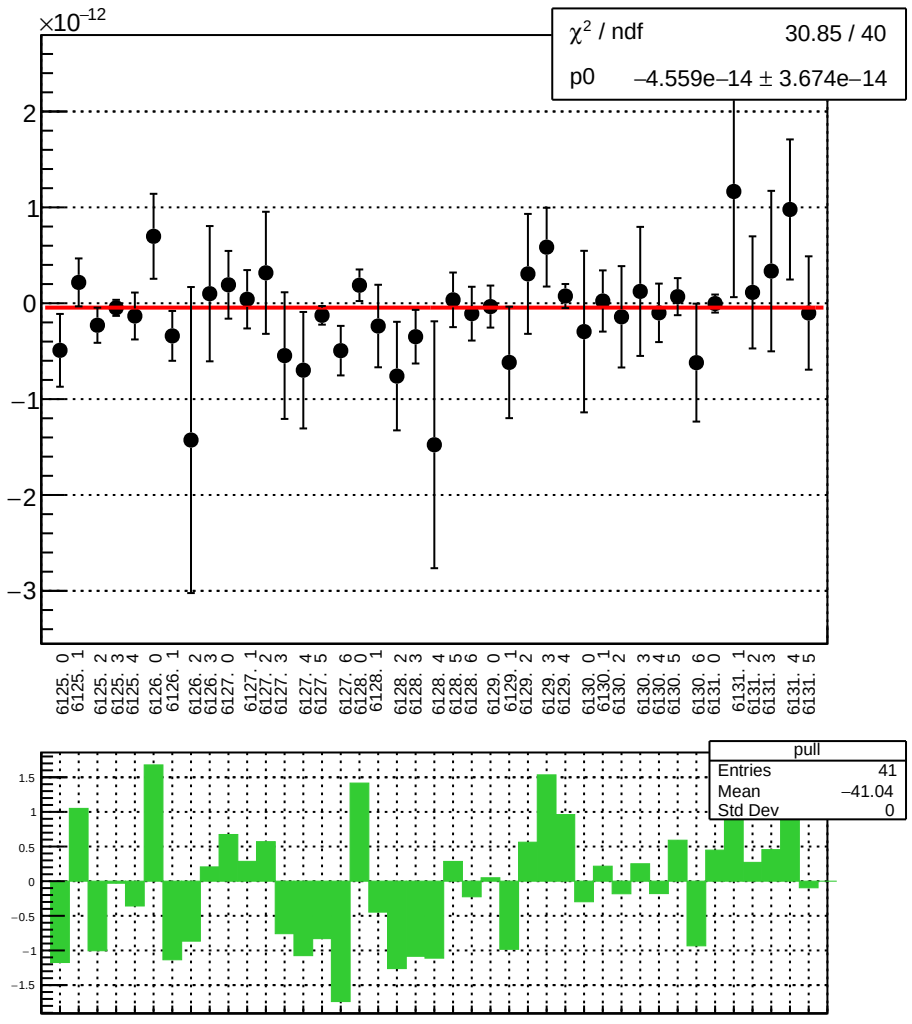

pull1D
Entries 41
Mean 0.1137
Std Dev 1.108

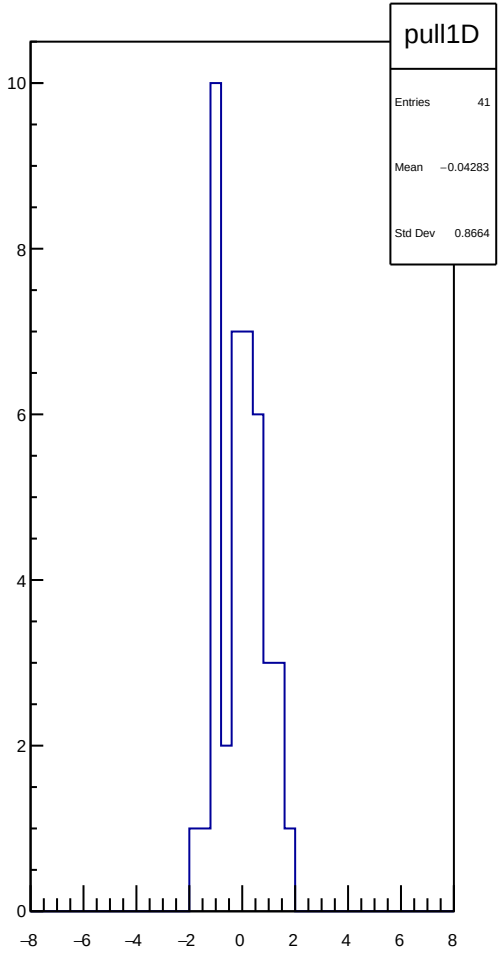

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.225e+04 / 40
p0 72.49 ± 0.08304
140
120
100
80
60
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

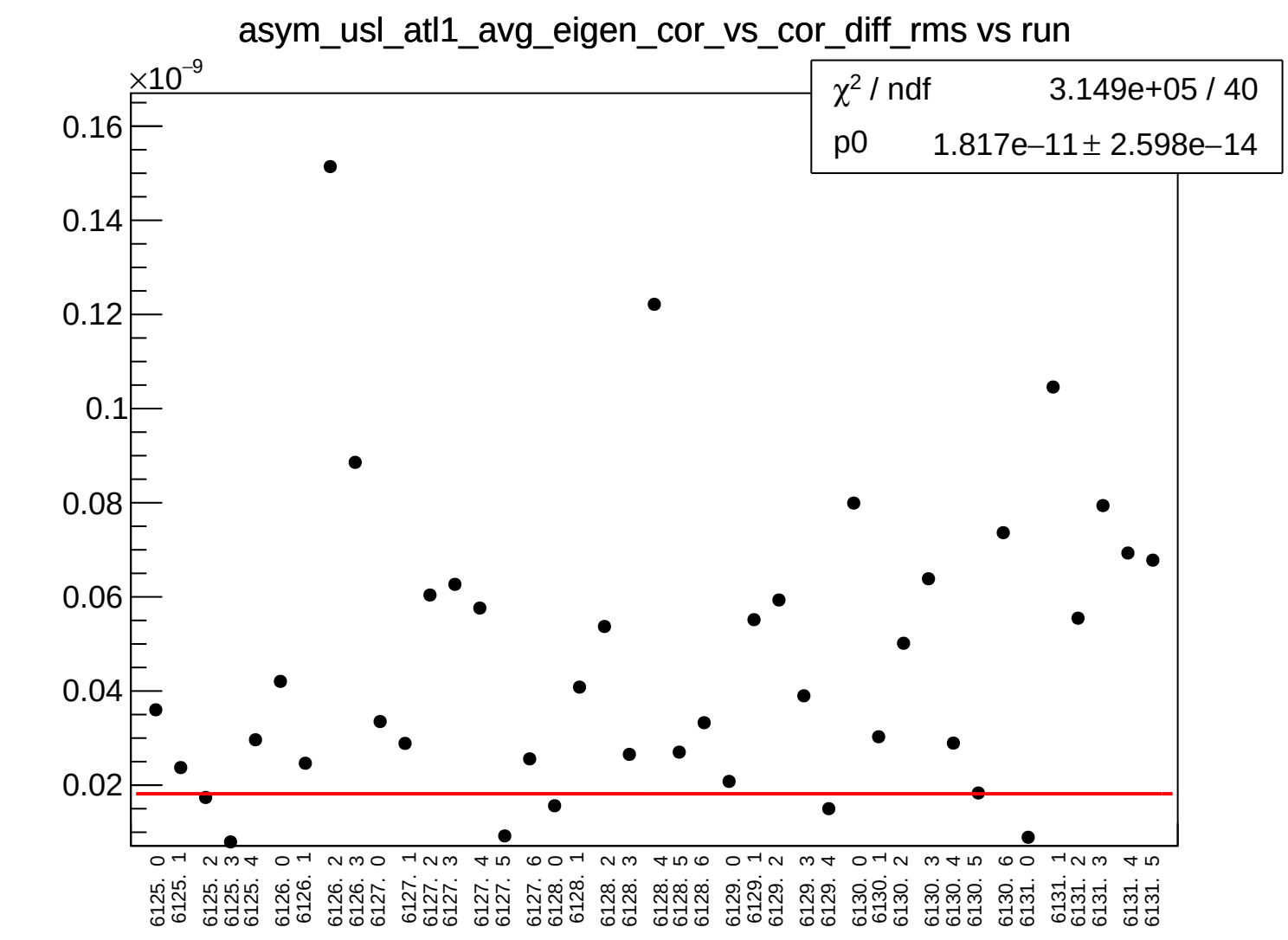

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.84 / 40
p0 −0.01505 ± 0.1174
pull
Entries 41
Mean 13.33
Std Dev 0

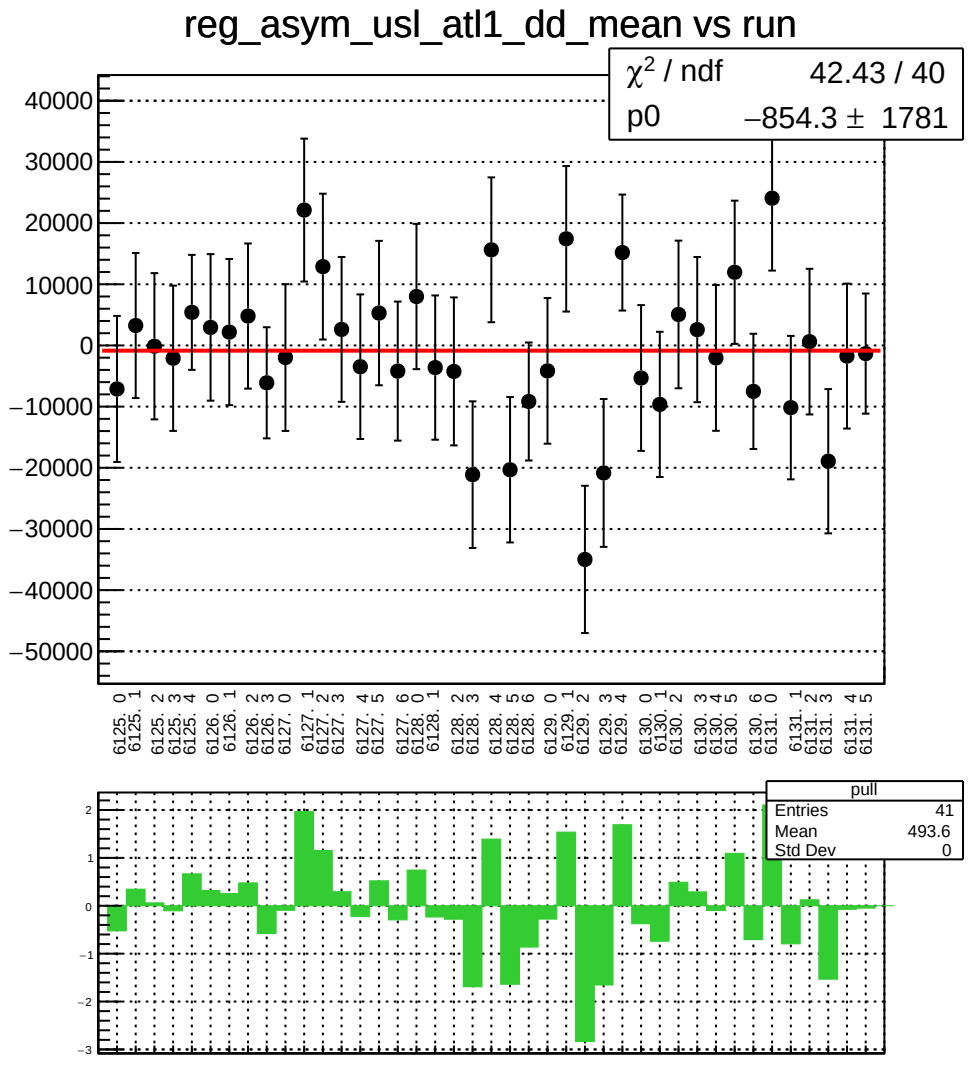

pull1D
Entries 41
Mean 0.1137
Std Dev 1.108

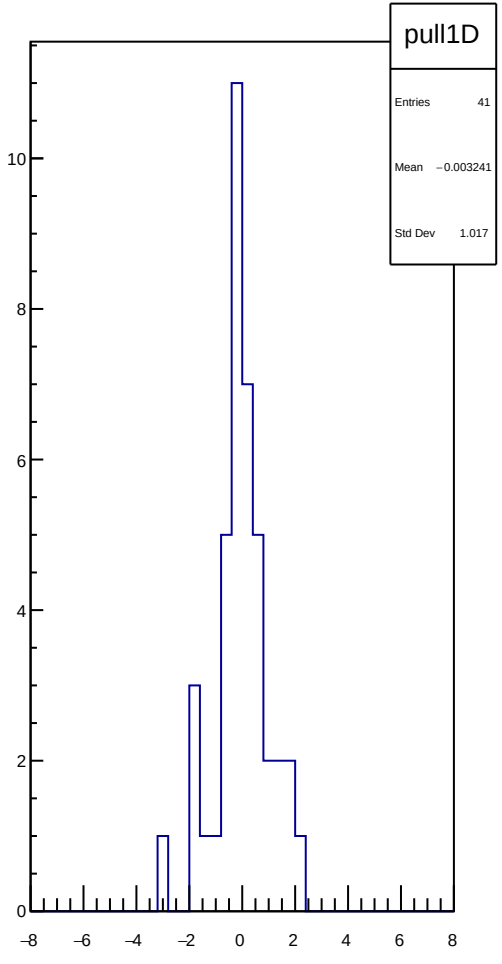

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.225e+04 / 40
p0 72.49 ± 0.08304
140
120
100
80
60
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

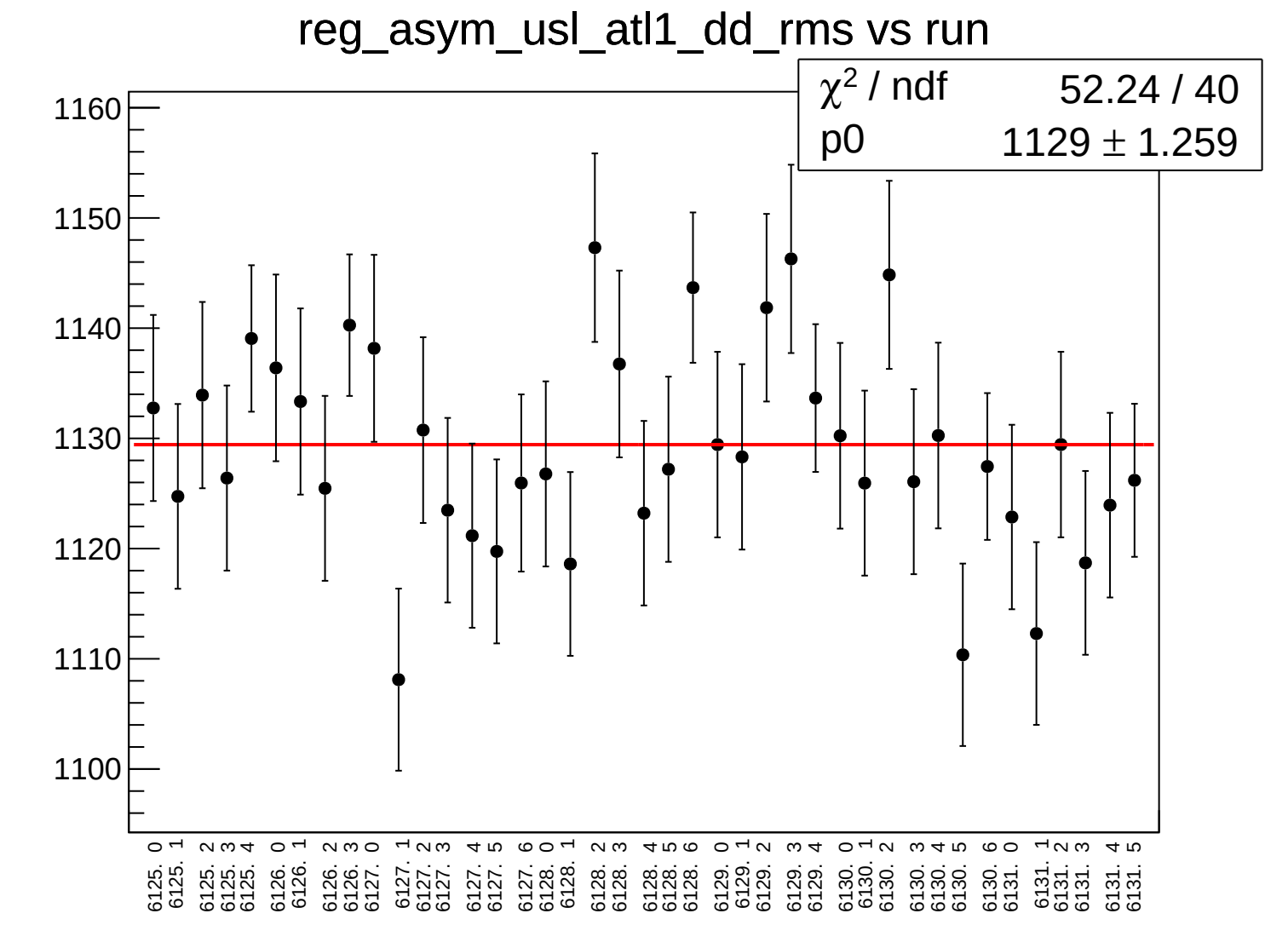

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 30.85 / 40
p0 −4.559e−14 ± 3.674e−14
pull
Entries 41
Mean −41.04
Std Dev 0

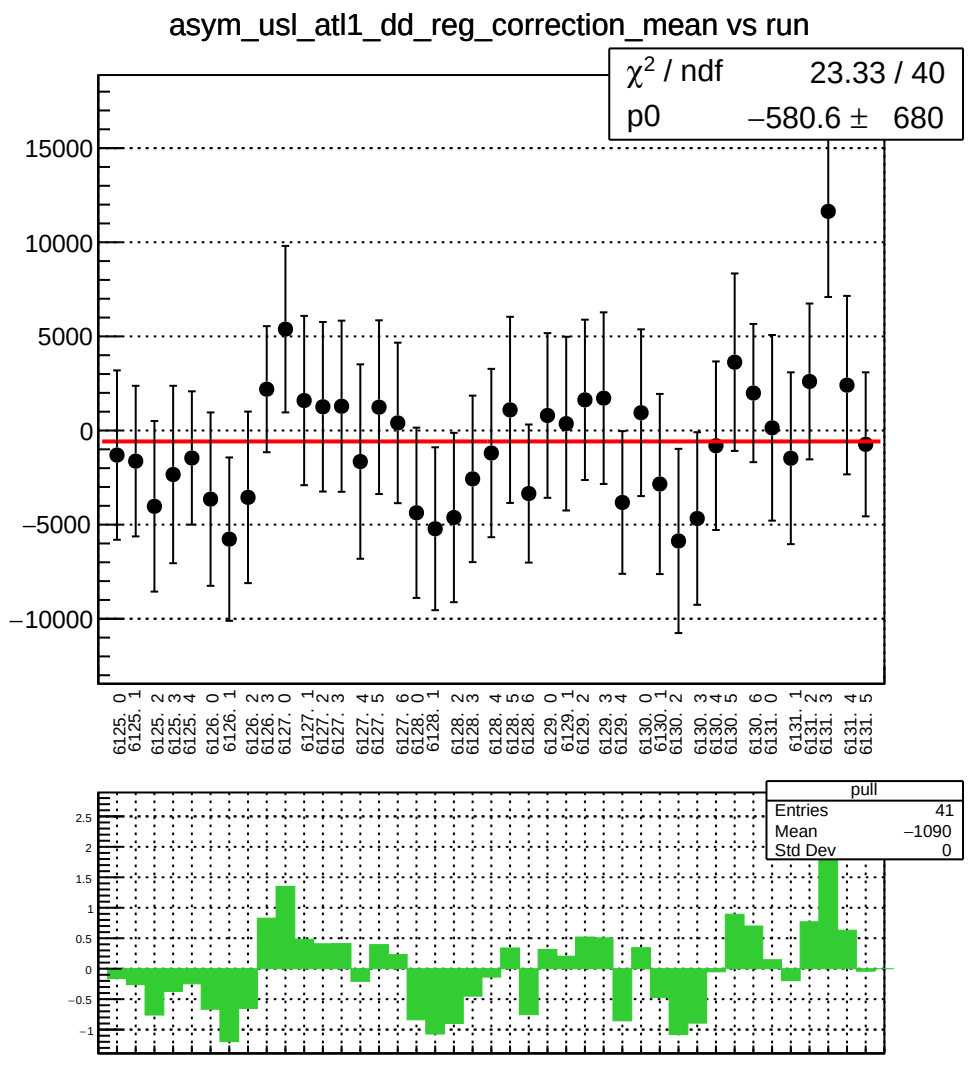

pull1D
Entries 41
Mean −0.04283
Std Dev 0.8664

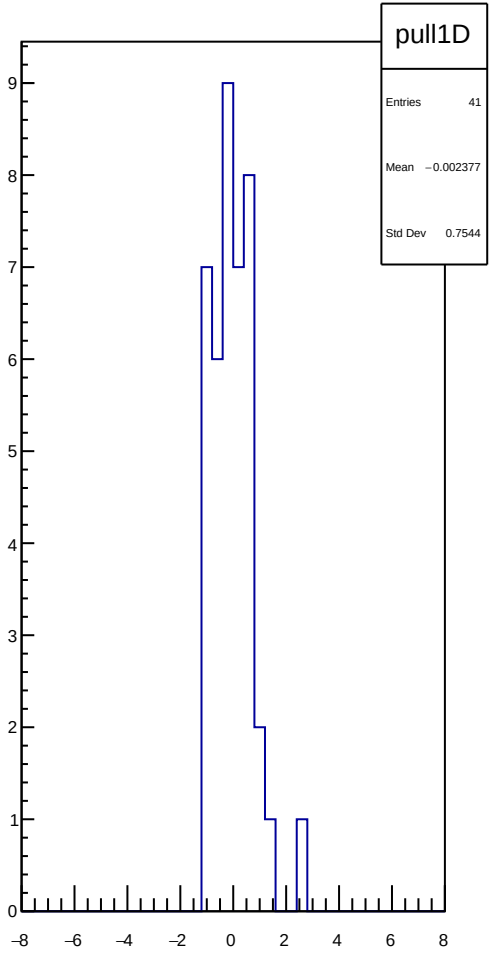

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.149e+05 / 40
p0 1.817e−11 ± 2.598e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

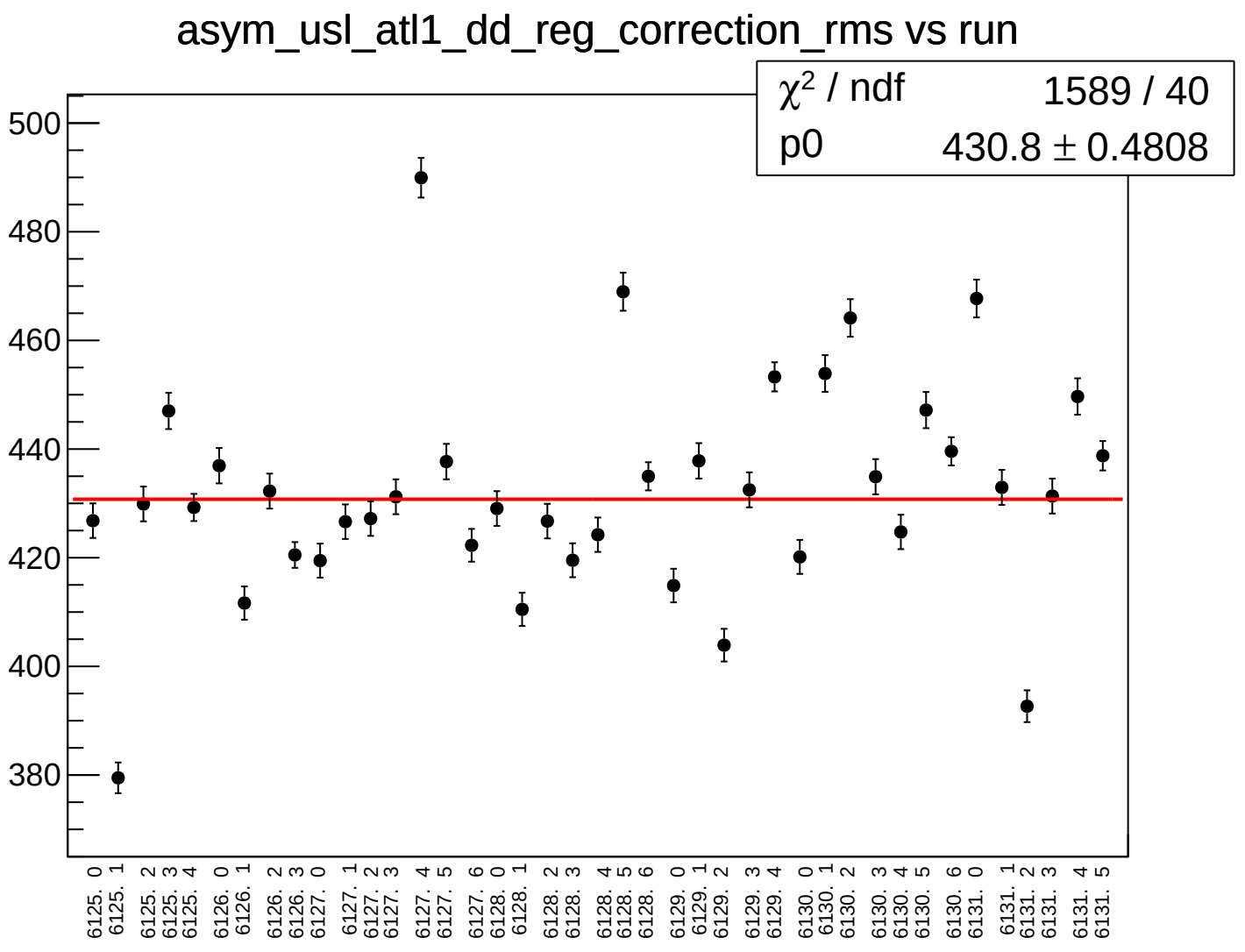

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 42.43 / 40
p0 −854.3 ± 1781
pull
Entries 41
Mean 493.6
Std Dev 0


pull1D
Entries 41
Mean −0.003241
Std Dev 1.017


reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 52.24 / 40
p0 1129 ± 1.259
1160
1150
1140
1130
1120
1110
1100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 23.33 / 40
p0 −580.6 ± 680
15000
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1090
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 41
Mean −0.002377
Std Dev 0.7544
9
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 1589 / 40
p0 430.8 ± 0.4808
500
480
460
440
420
400
380
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6130. 5
6130. 6
6131. 0
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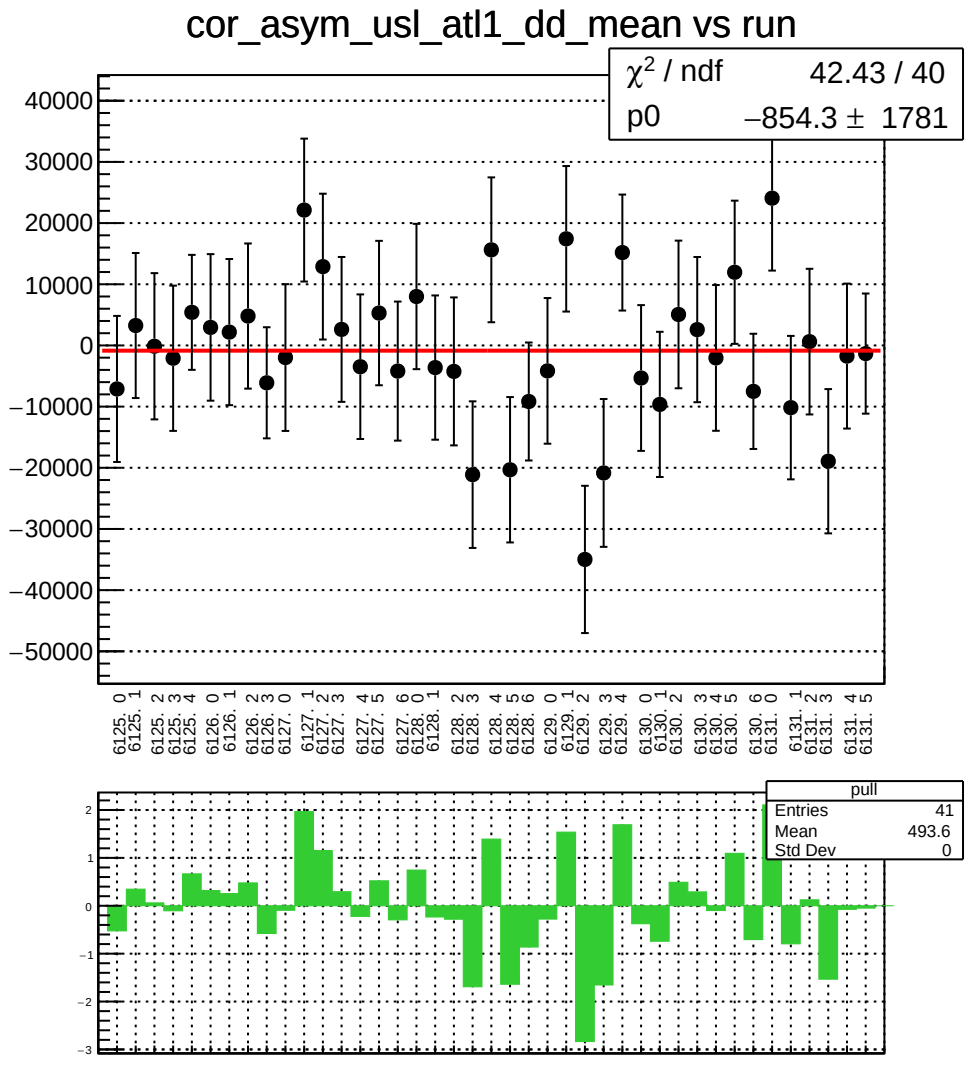
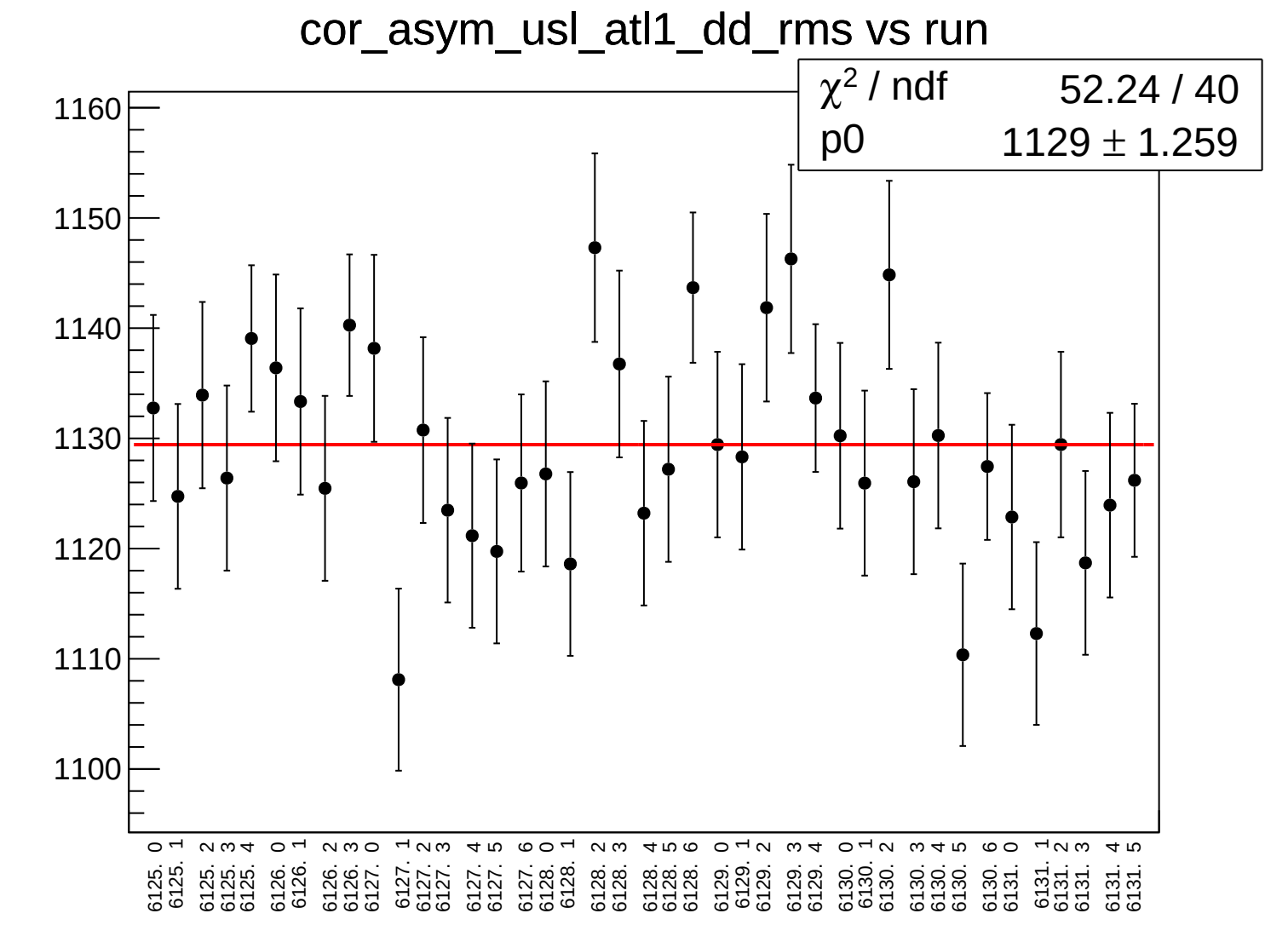
6131. 2
6131. 3
6131. 4
6131. 5


cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 42.43 / 40
p0 −854.3 ± 1781
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 493.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean −0.003241
Std Dev 1.017
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 52.24 / 40
p0 1129 ± 1.259
1160
1150
1140
1130
1120
1110
1100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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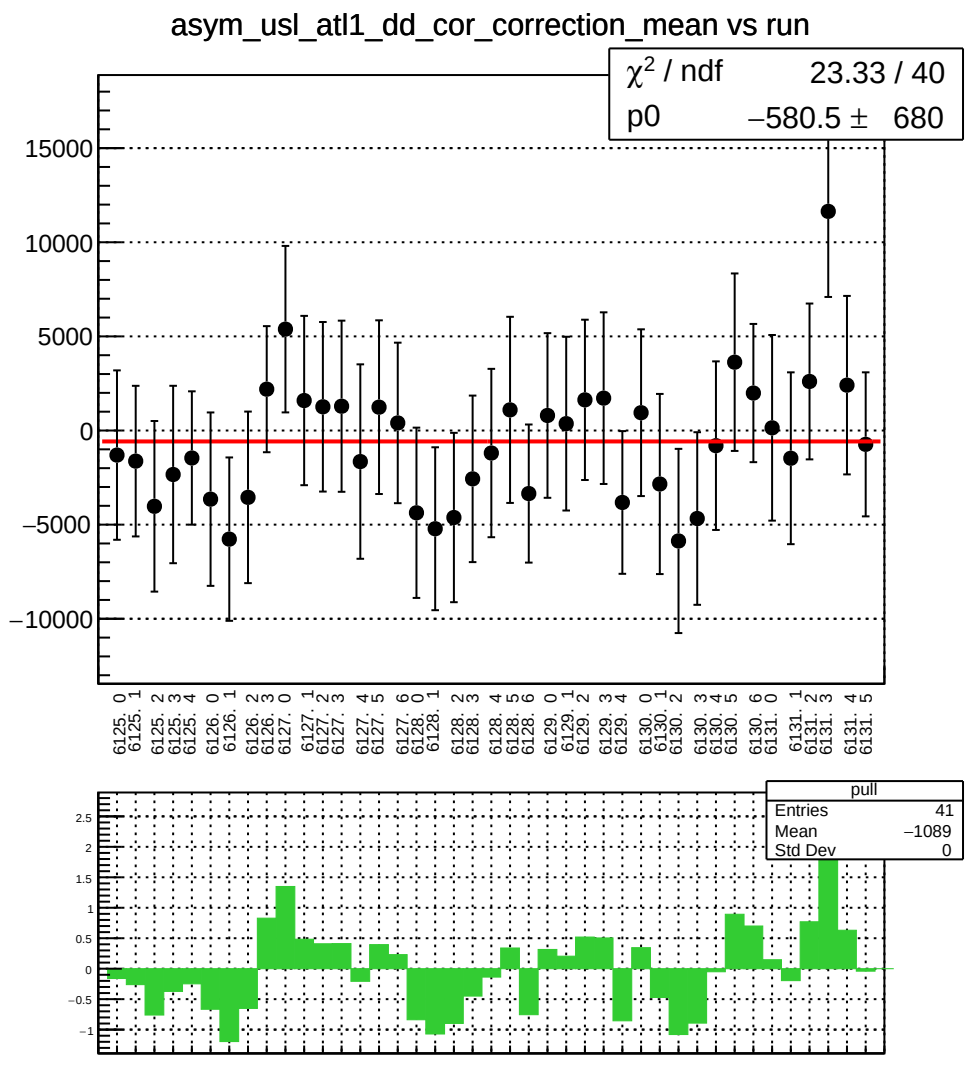
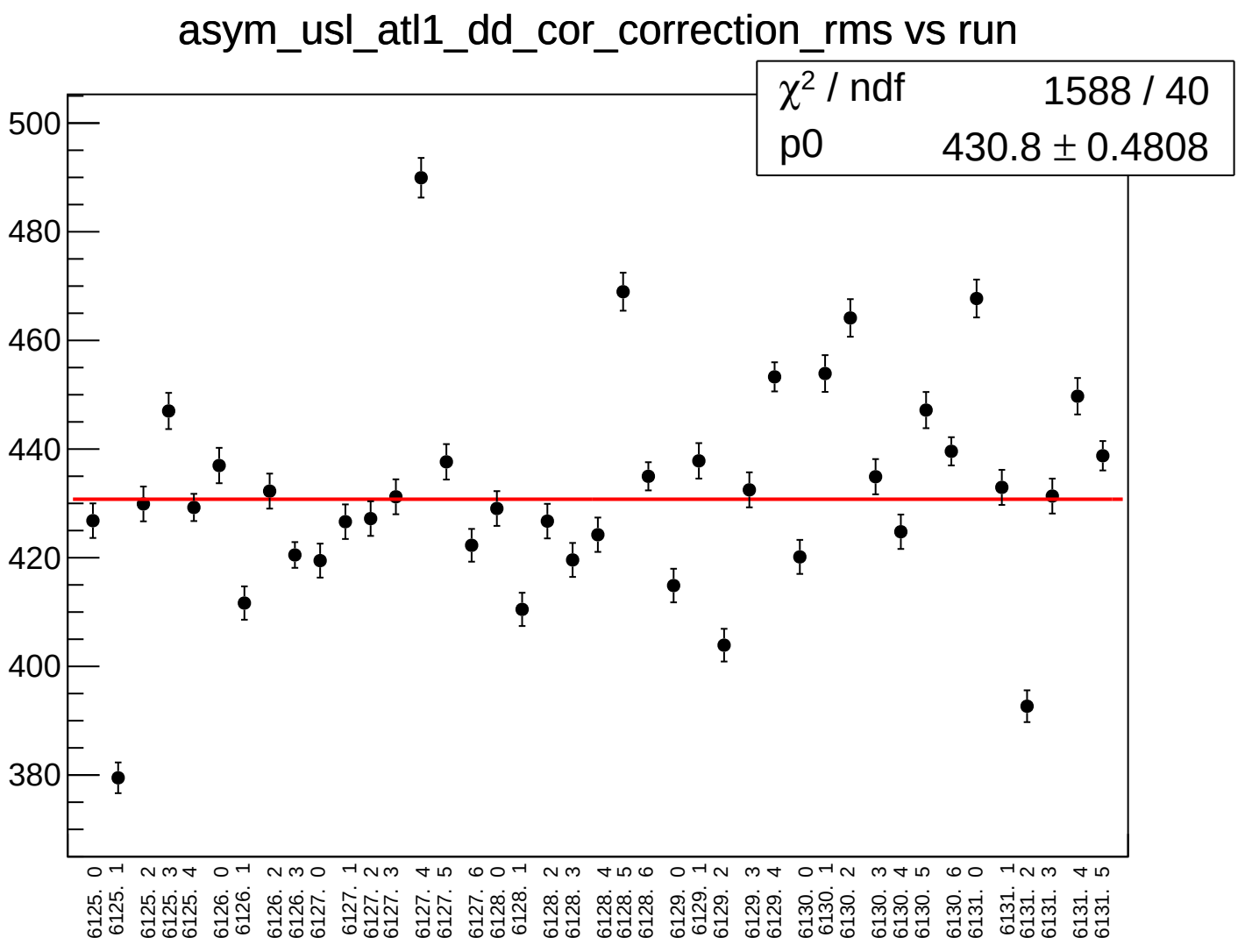
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 23.33 / 40
p0 −580.5 ± 680
15000
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1089
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.002379
Std Dev 0.7544
9
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 1588 / 40
p0 430.8 ± 0.4808
500
480
460
440
420
400
380
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6130. 5
6130. 6
6131. 0
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6131. 2
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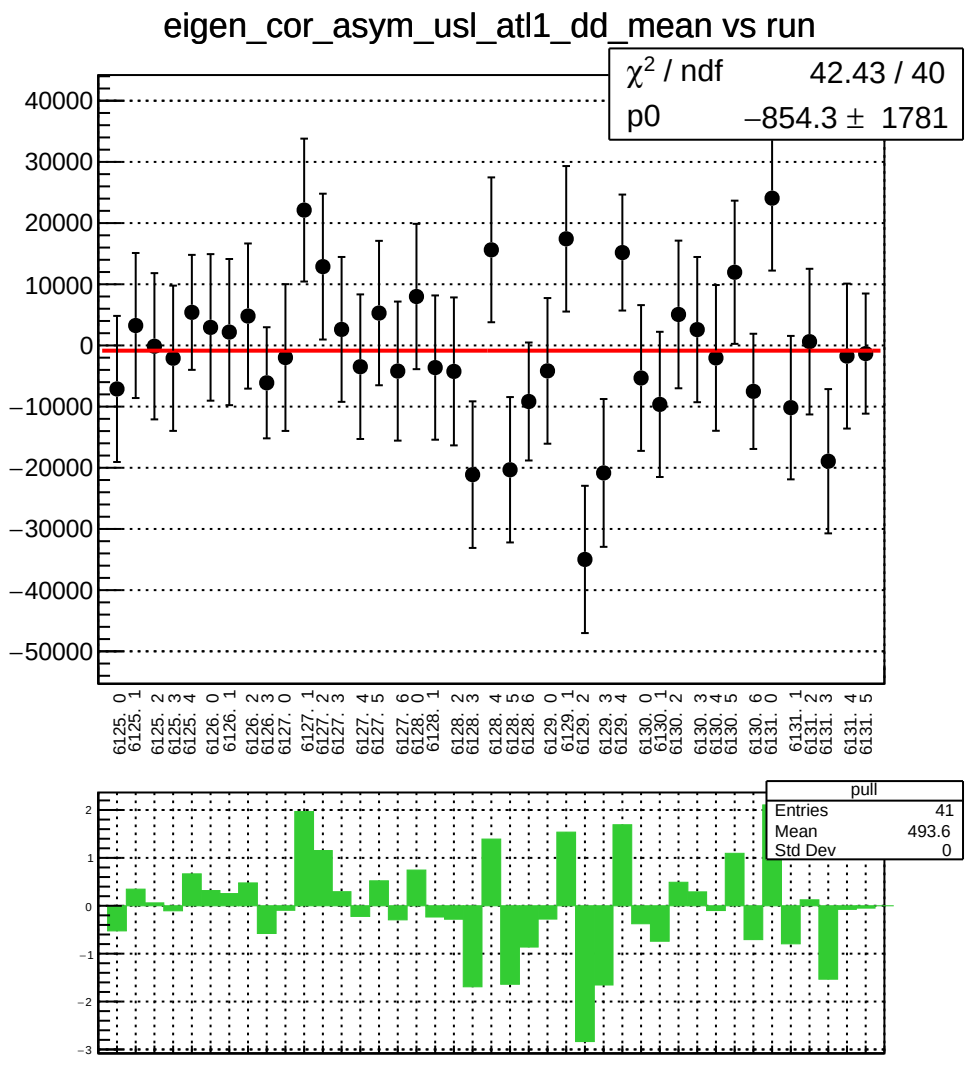
6131. 4
6131. 5


eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 42.43 / 40
p0 −854.3 ± 1781
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
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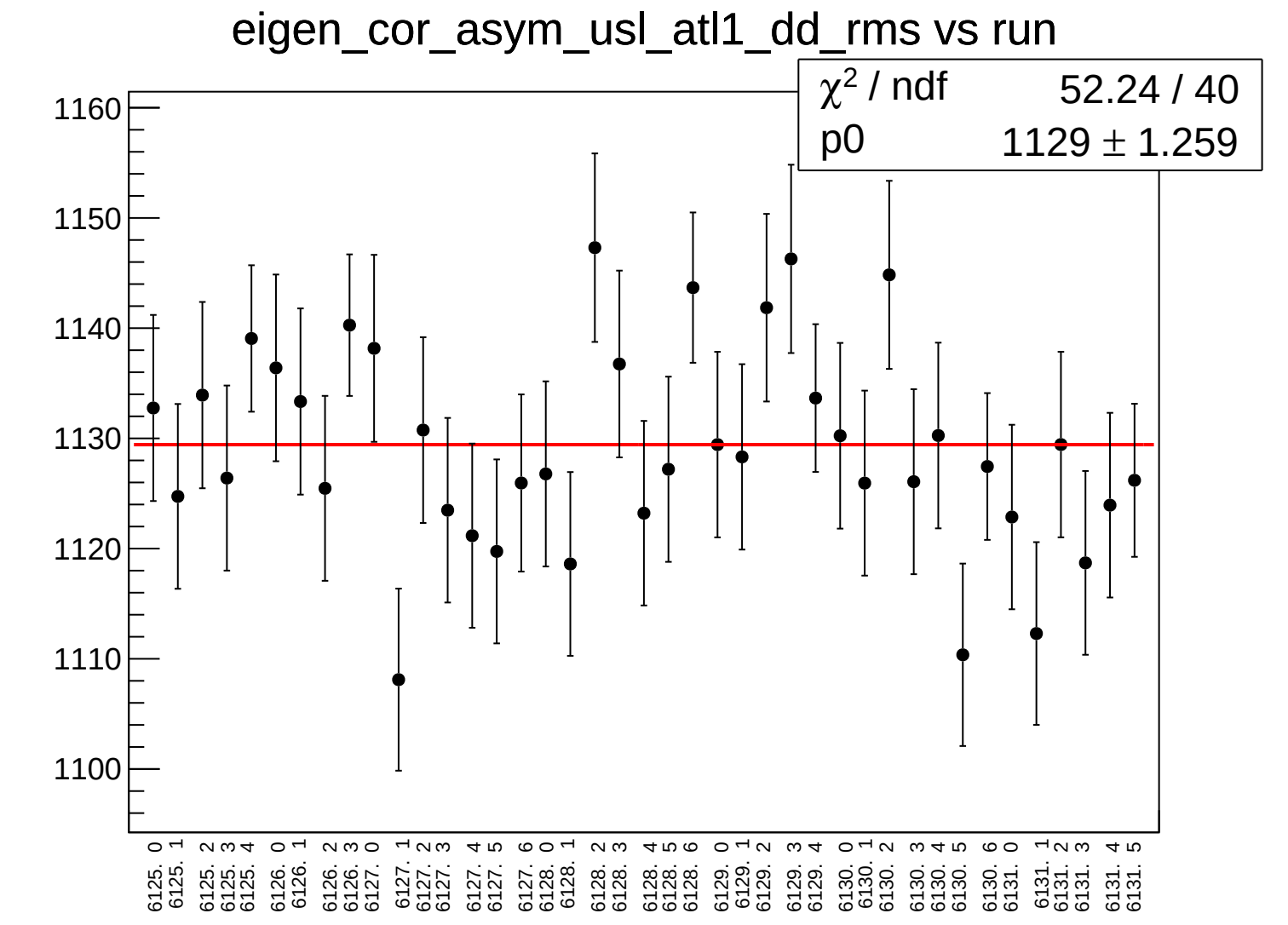
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 493.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean −0.003241
Std Dev 1.017
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 52.24 / 40
p0 1129 ± 1.259
1160
1150
1140
1130
1120
1110
1100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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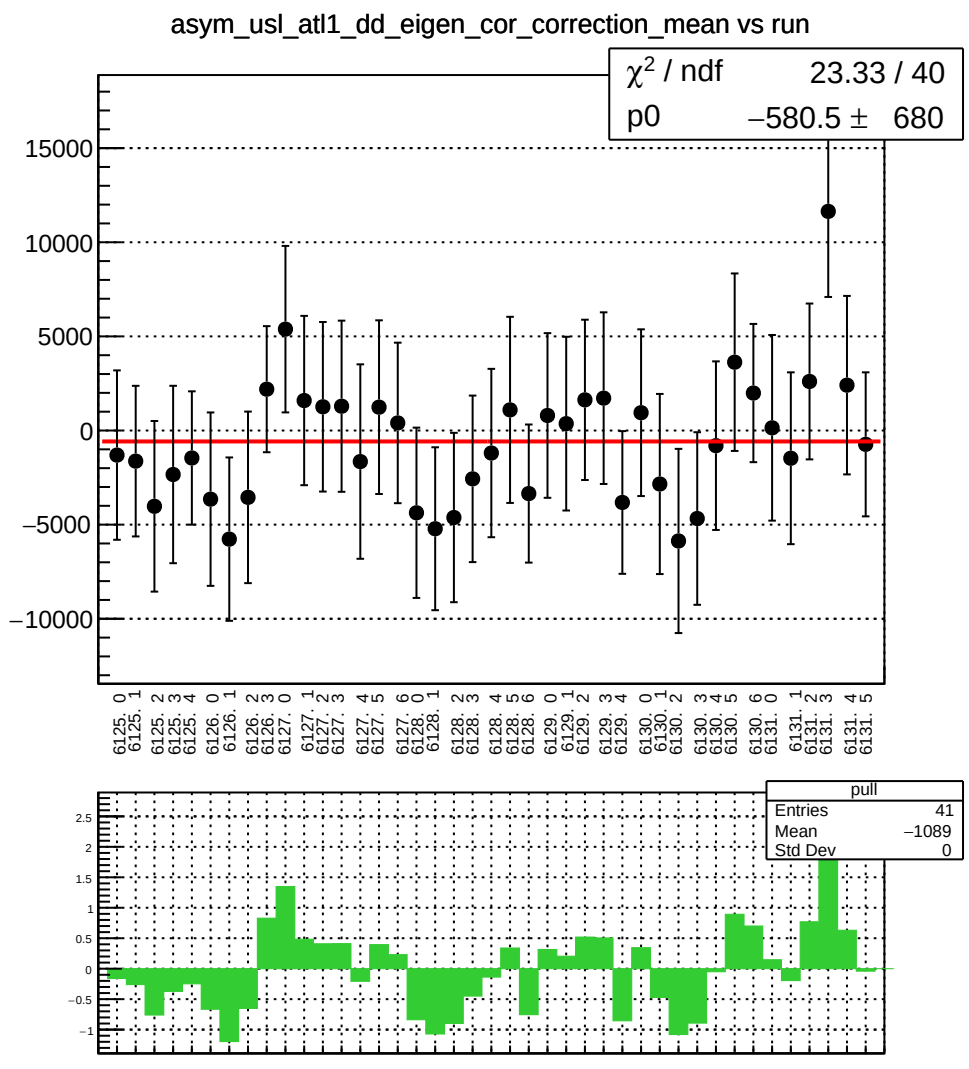
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 23.33 / 40
p0 −580.5 ± 680
15000
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1089
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.002379
Std Dev 0.7544
9
8
7
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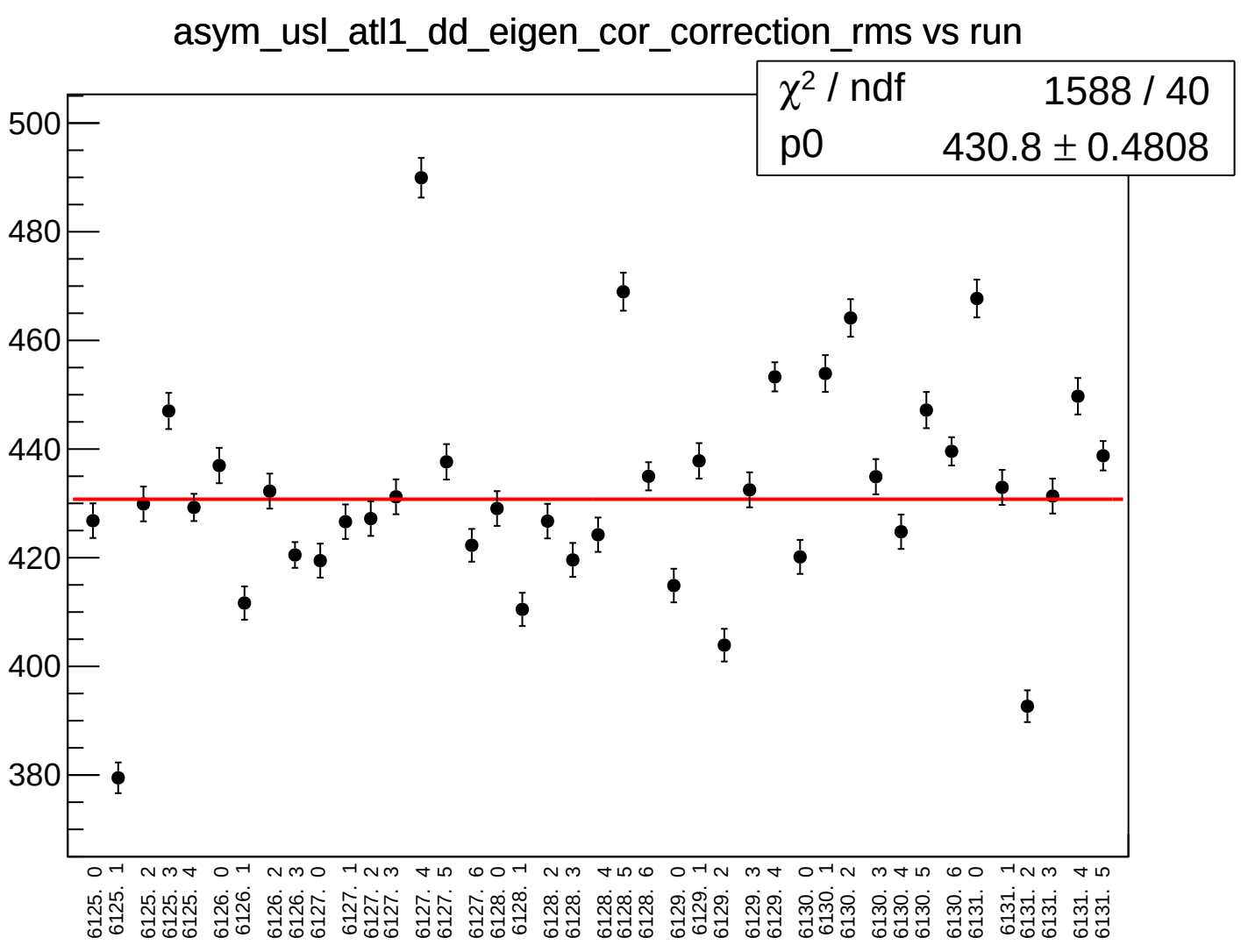
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1588 / 40
p0 430.8 ± 0.4808
500
480
460
440
420
400
380
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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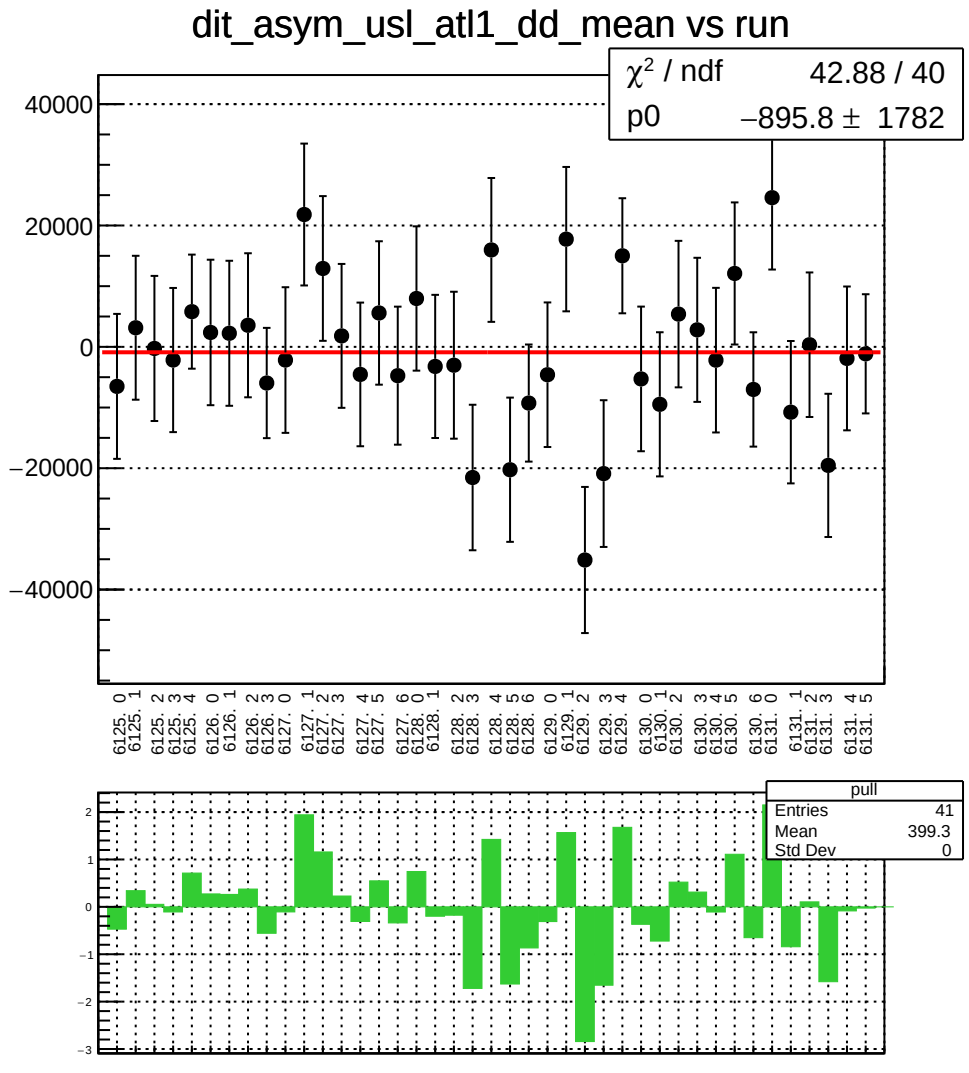
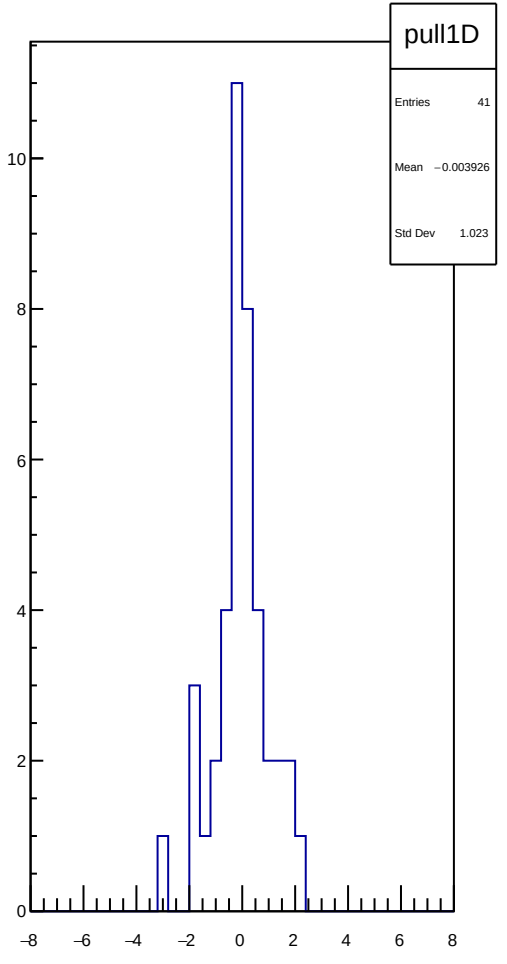
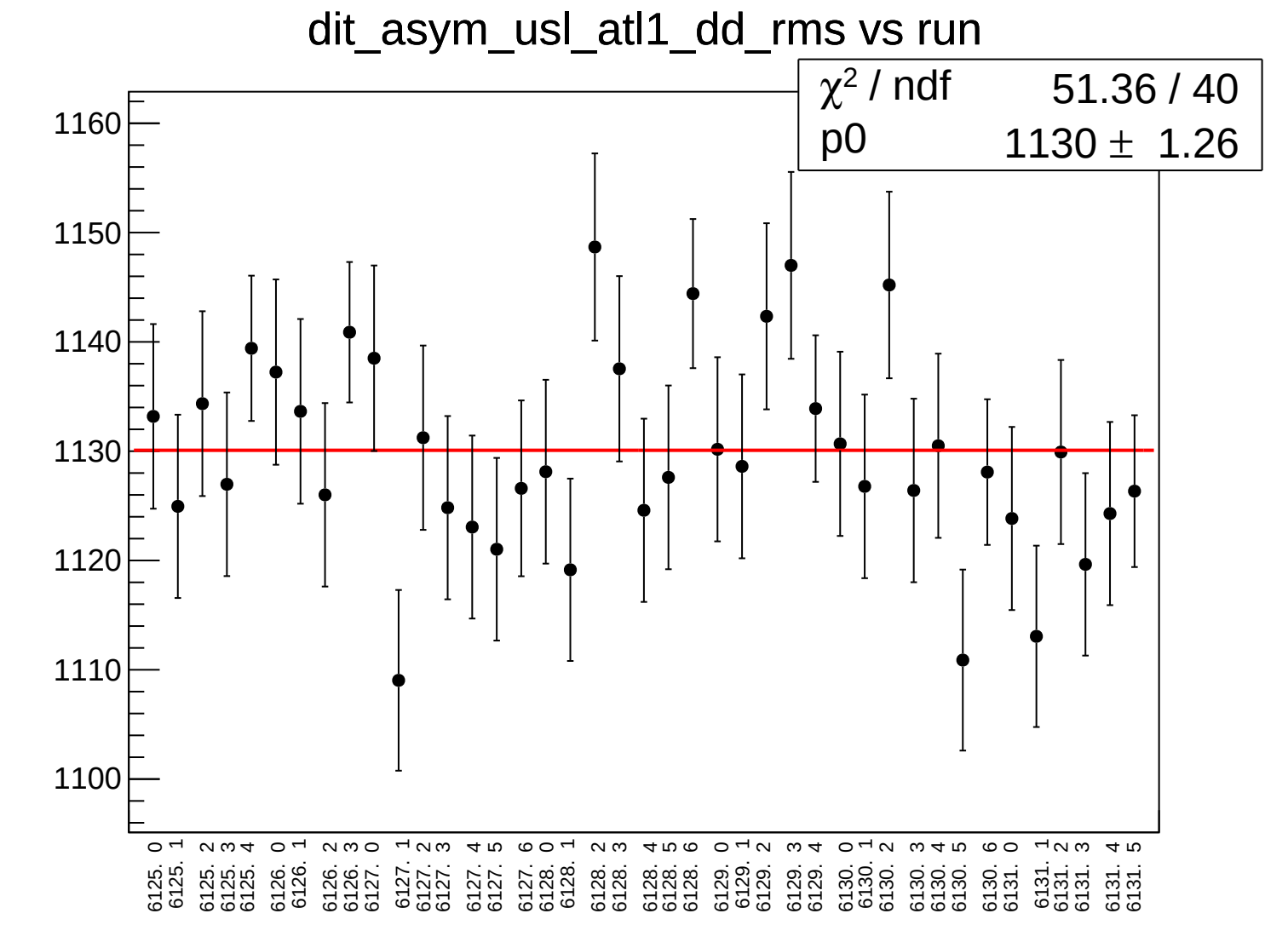
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 42.88 / 40
p0 −895.8 ± 1782
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 399.3
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean −0.003926
Std Dev 1.023
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 51.36 / 40
p0 1130 ± 1.26
1160
1150
1140
1130
1120
1110
1100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
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6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
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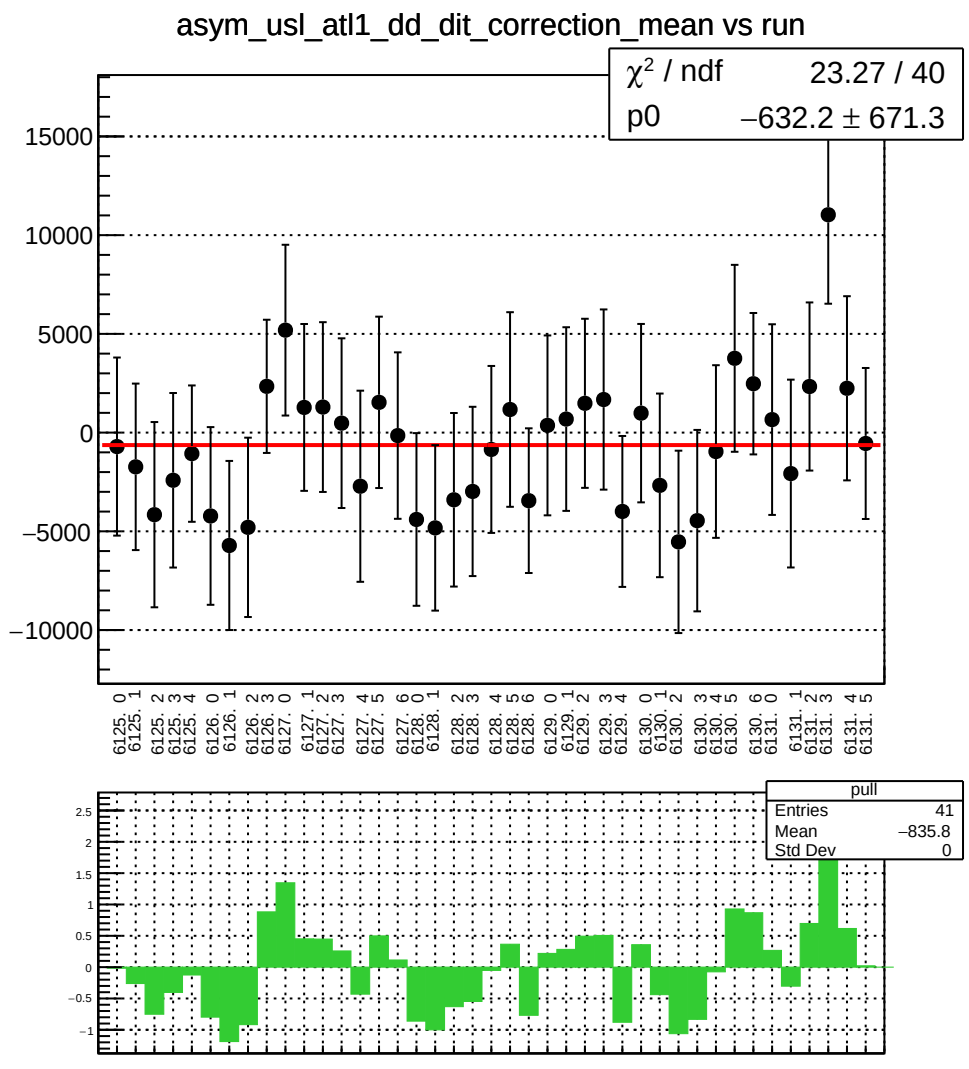
6131. 4
6131. 5


asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 23.27 / 40
p0 −632.2 ± 671.3
15000
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
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6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
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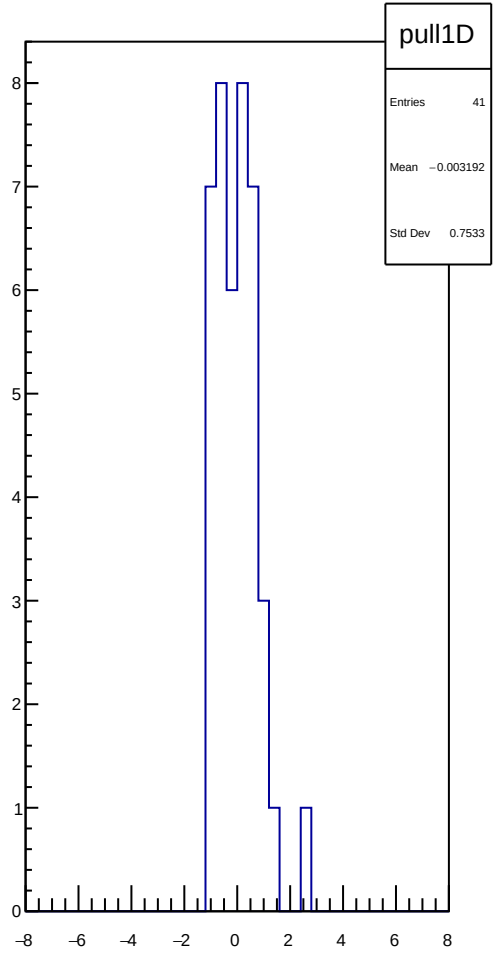
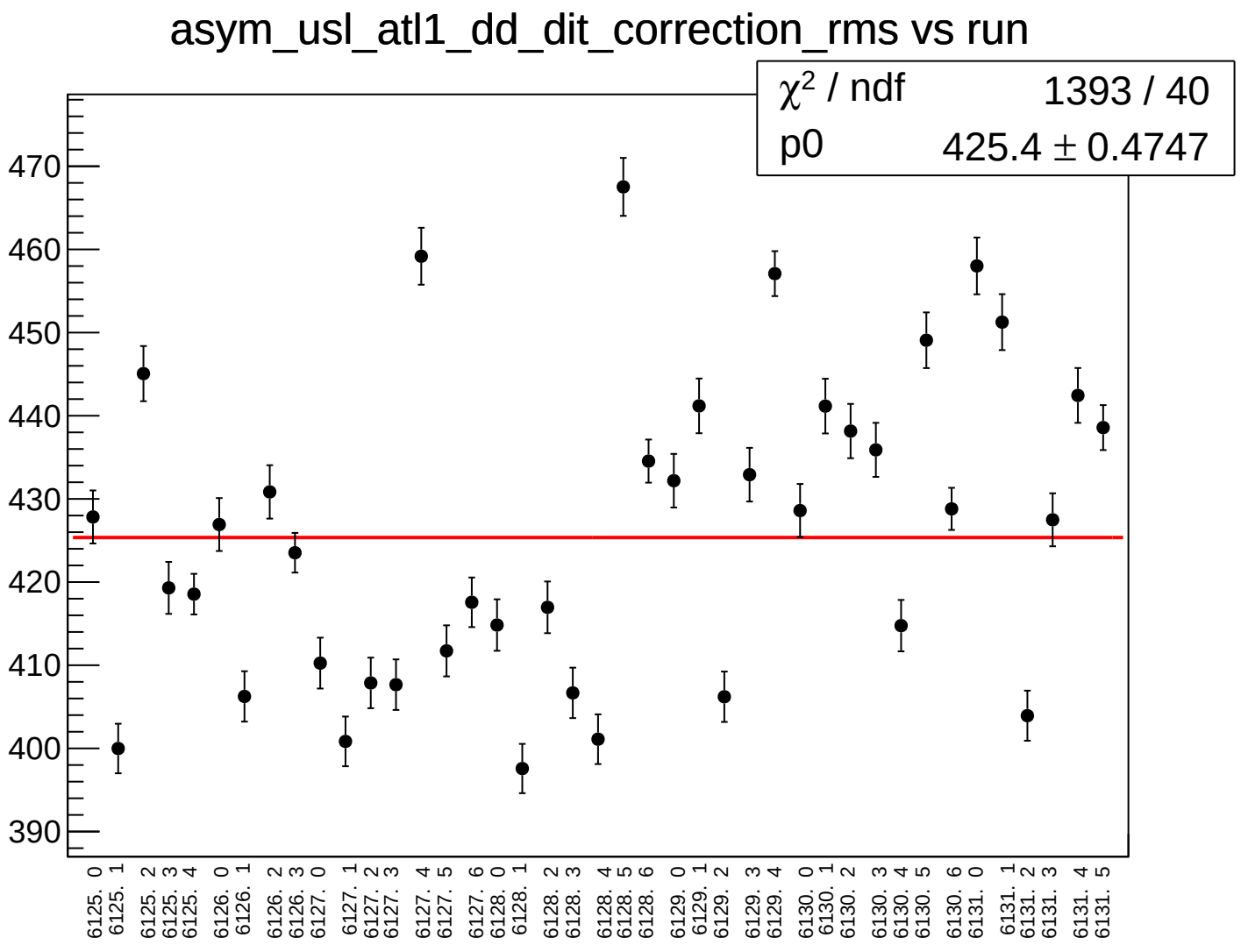
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −835.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 41
Mean −0.003192
Std Dev 0.7533
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 1393 / 40
p0 425.4 ± 0.4747
470
460
450
440
430
420
410
400
390
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6127. 5
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6128. 1
6128. 2
6128. 3
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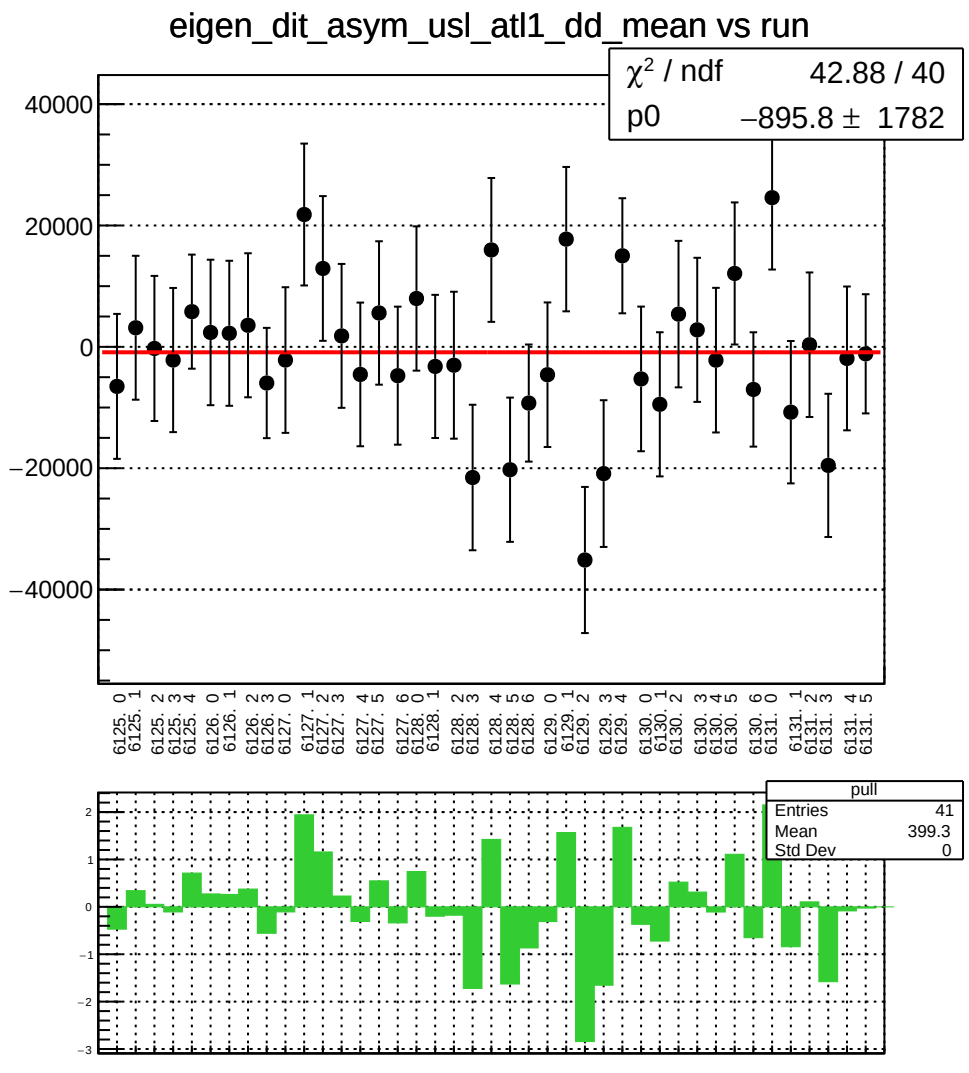
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 42.88 / 40
p0 −895.8 ± 1782
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
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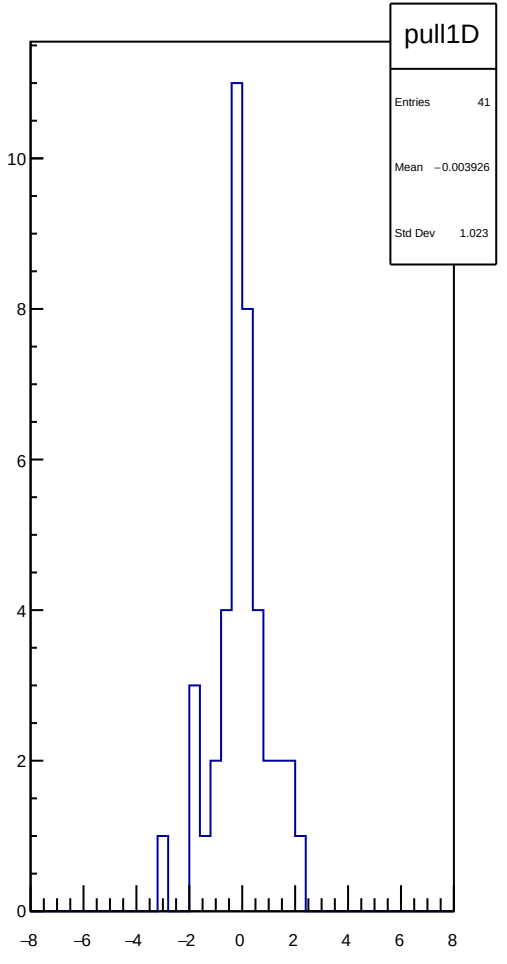
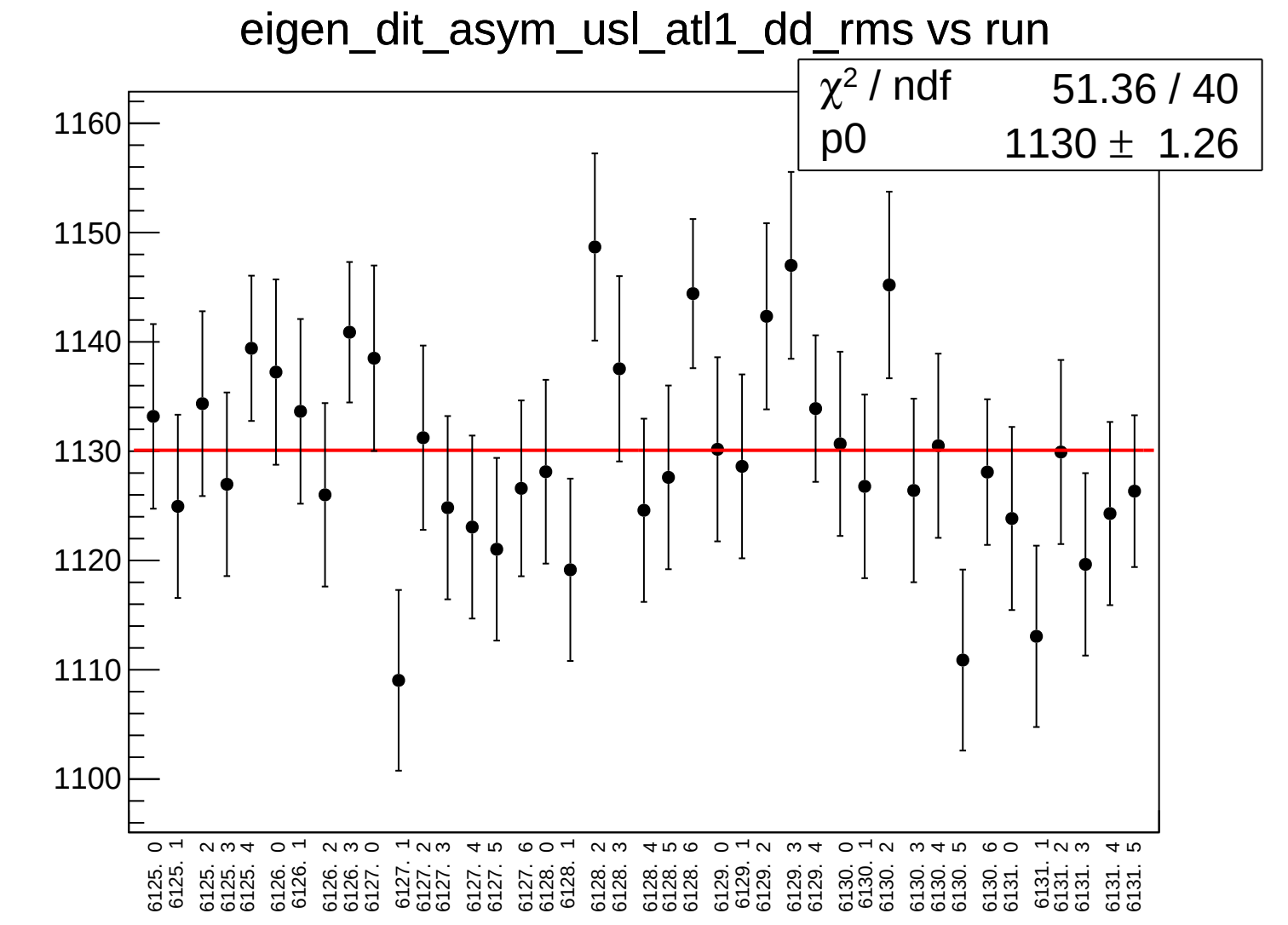
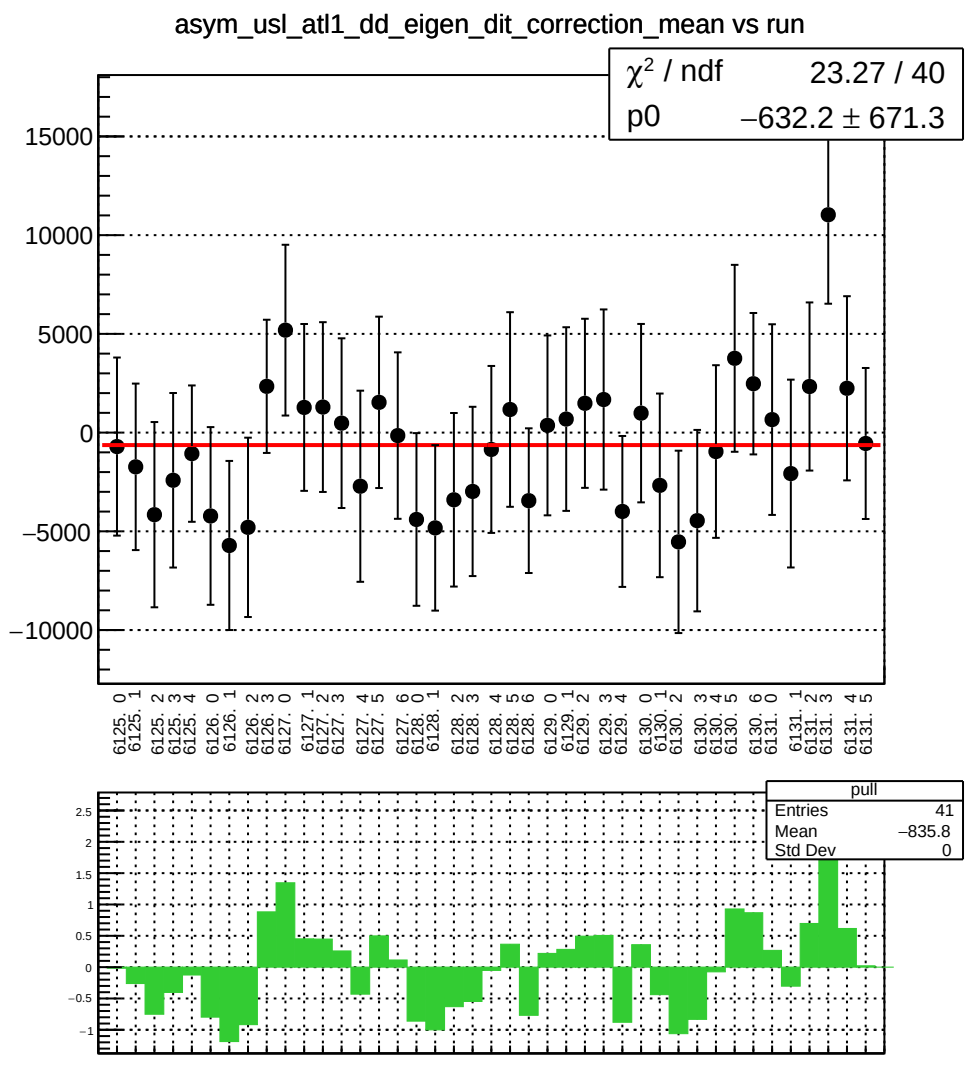
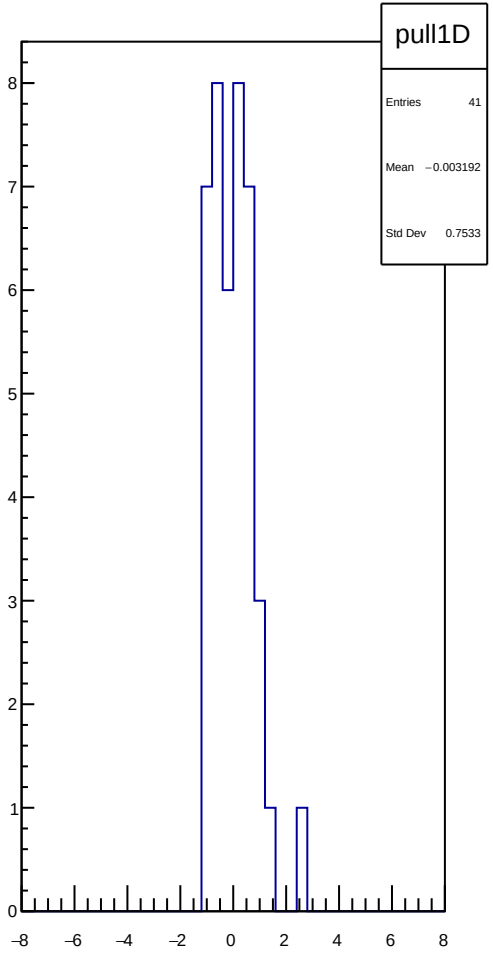
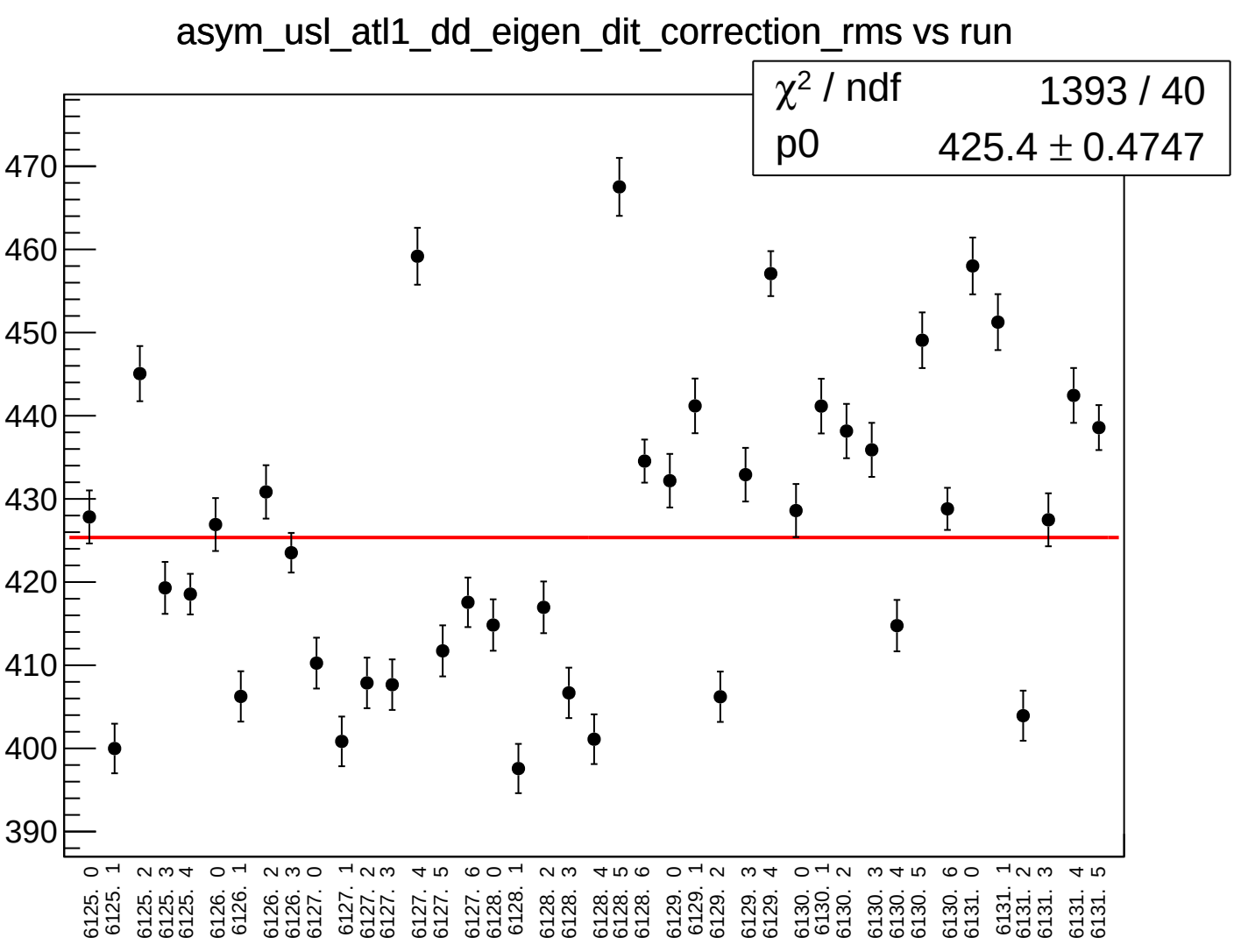
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 399.3
Std Dev 0
2
1
0
−1
−2
−3

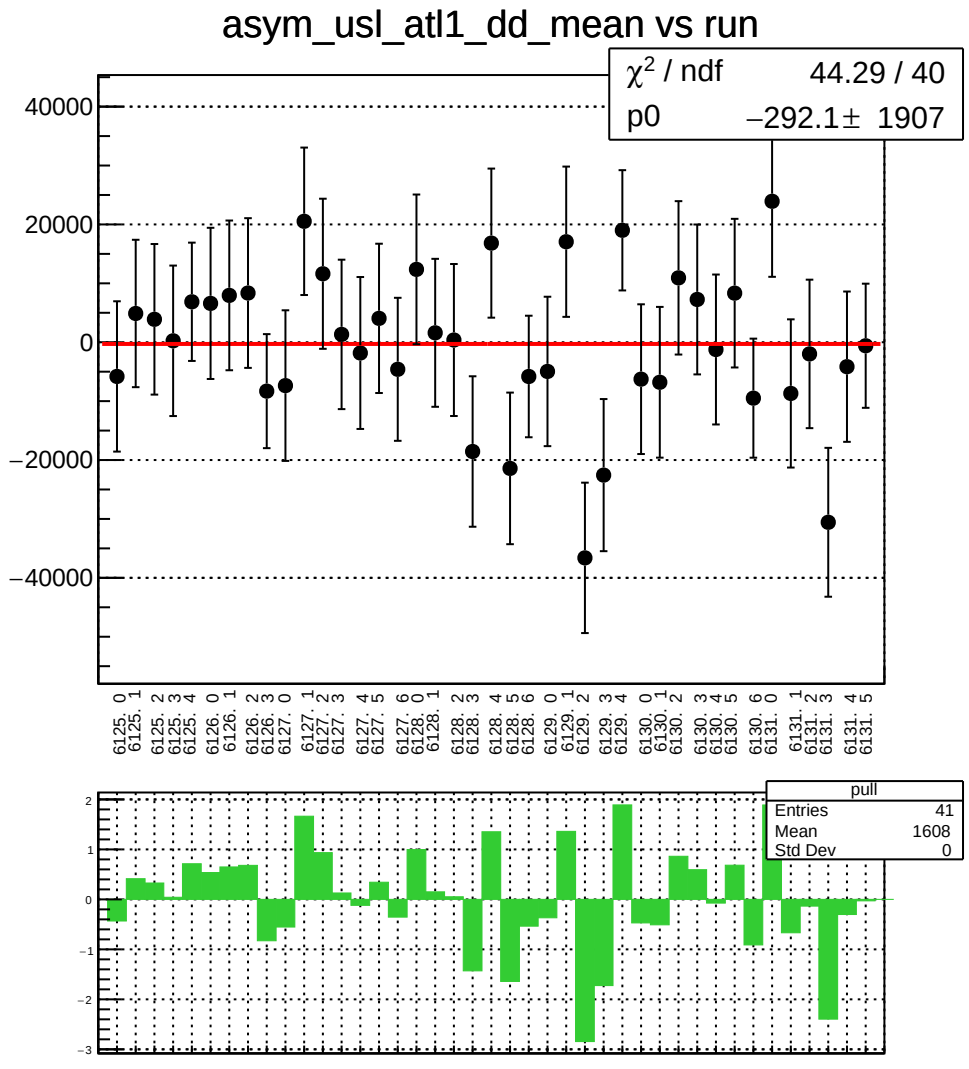

pull1D
Entries 41
Mean −0.003926
Std Dev 1.023
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

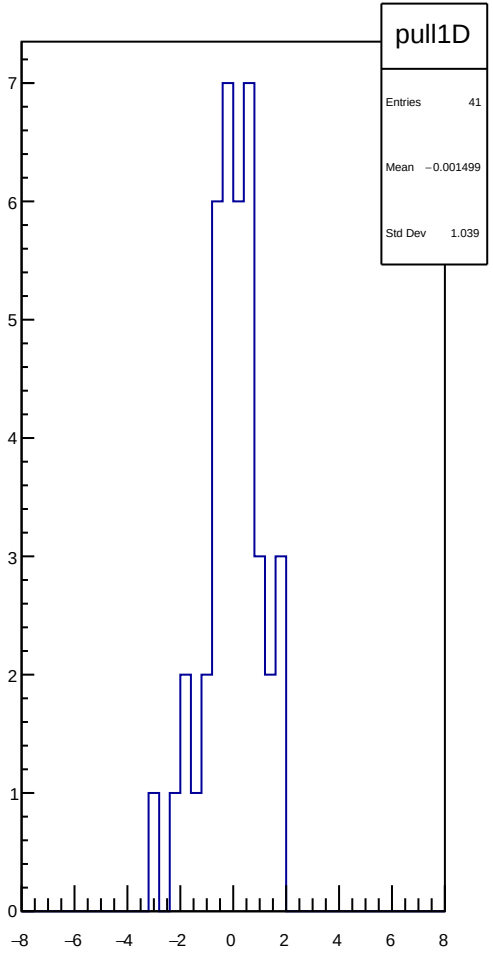

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 51.36 / 40
p0 1130 ± 1.26
1160
1150
1140
1130
1120
1110
1100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

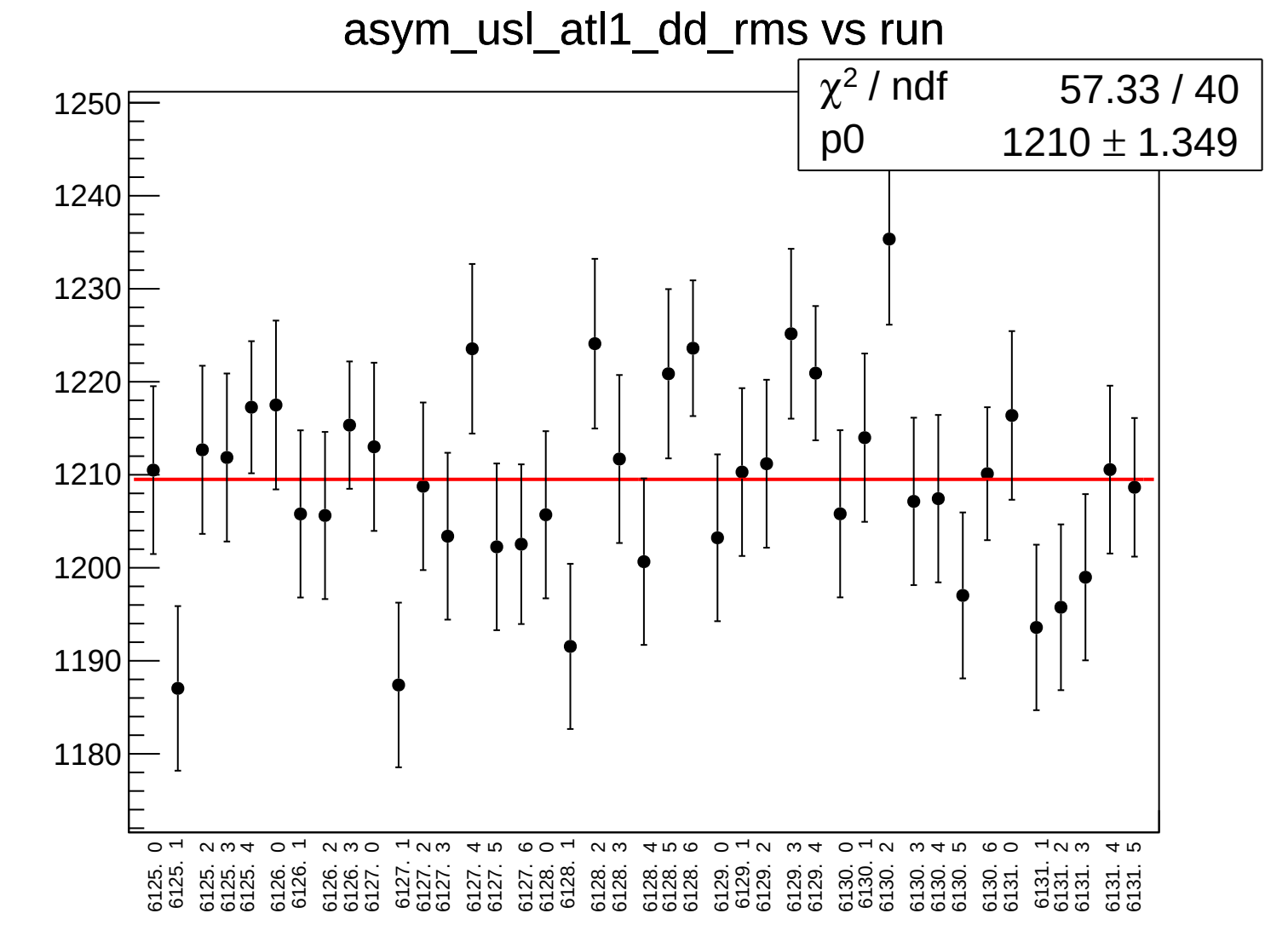

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 23.27 / 40
p0 −632.2 ± 671.3
15000
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −835.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

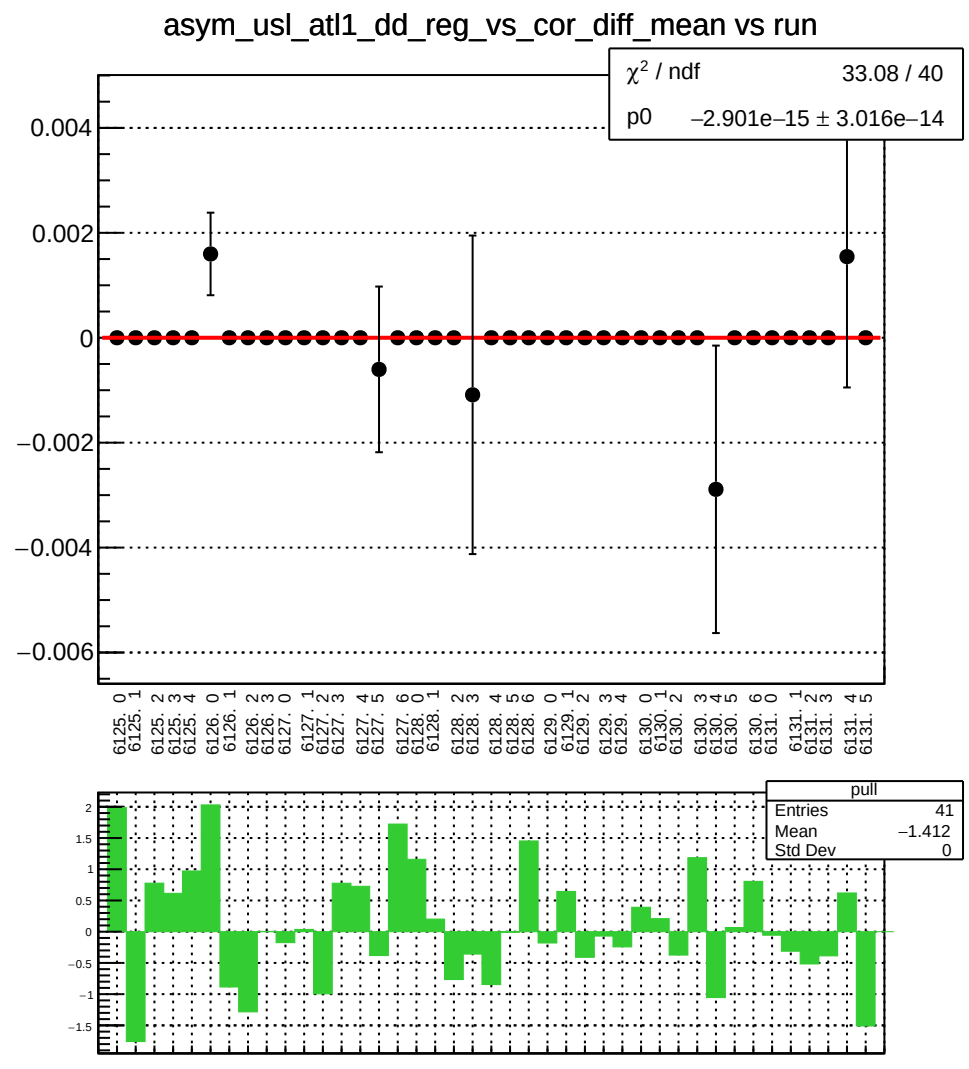

pull1D
Entries 41
Mean −0.003192
Std Dev 0.7533
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

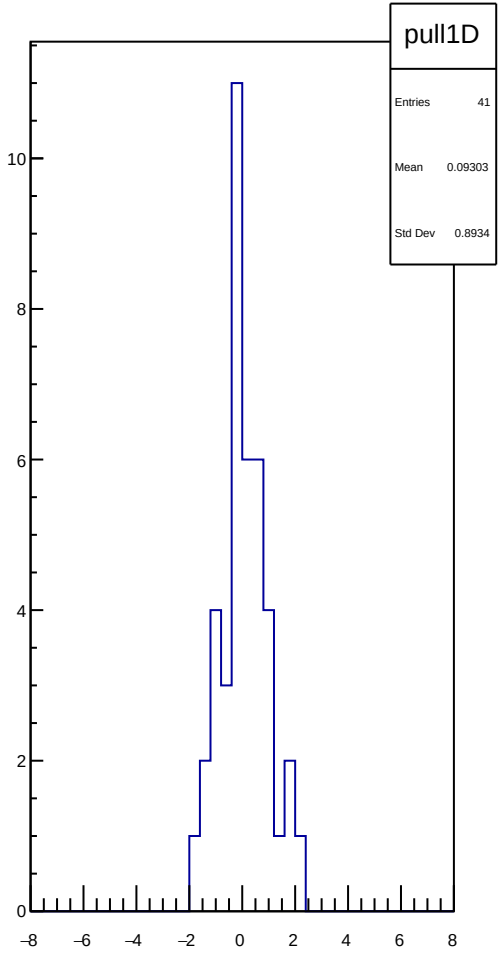

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1393 / 40
p0 425.4 ± 0.4747
470
460
450
440
430
420
410
400
390
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

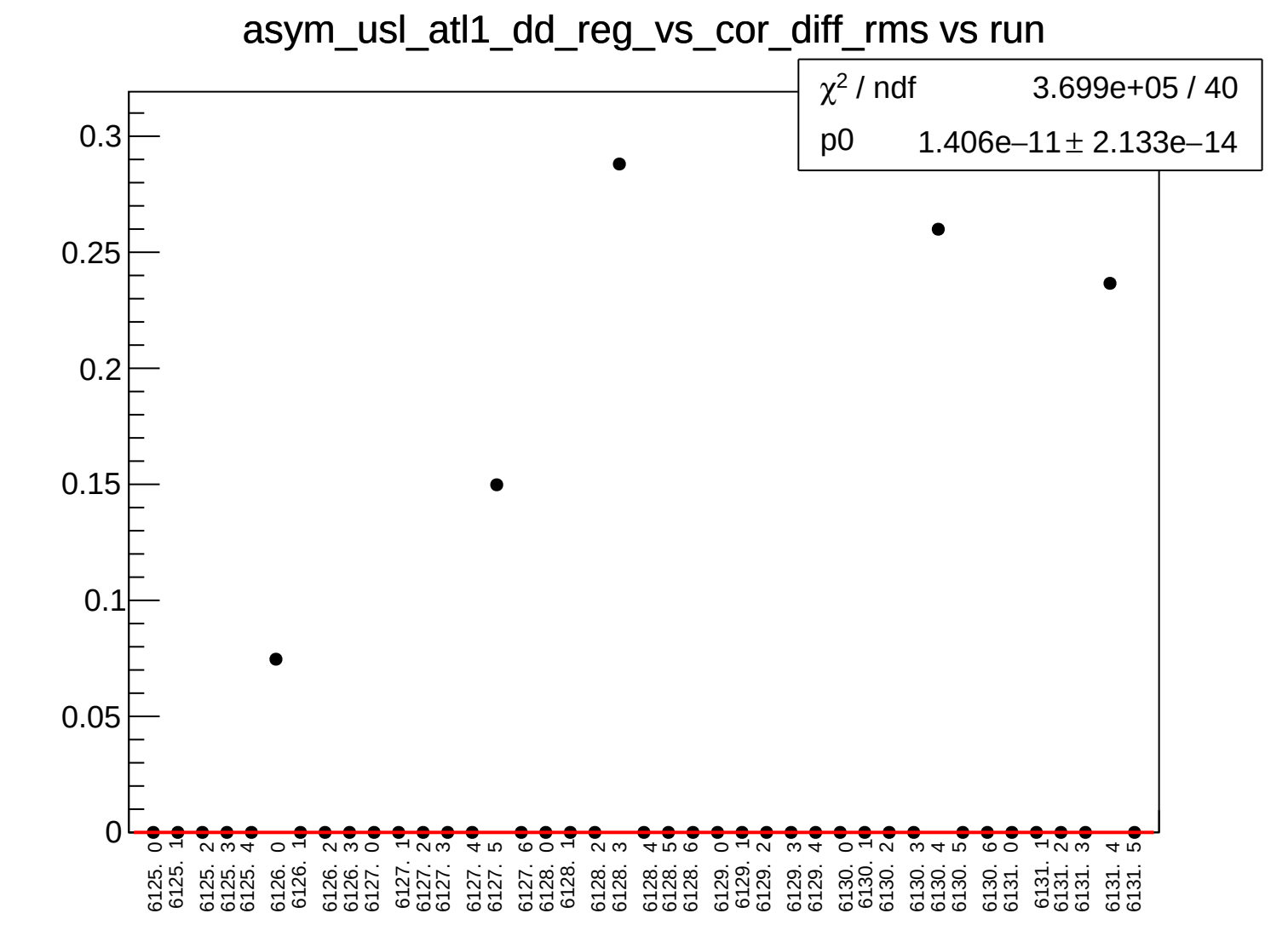

asym_usl_atl1_dd_mean vs run
χ² / ndf 44.29 / 40
p0 −292.1± 1907
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1608
Std Dev 0
2
1
0
−1
−2
−3

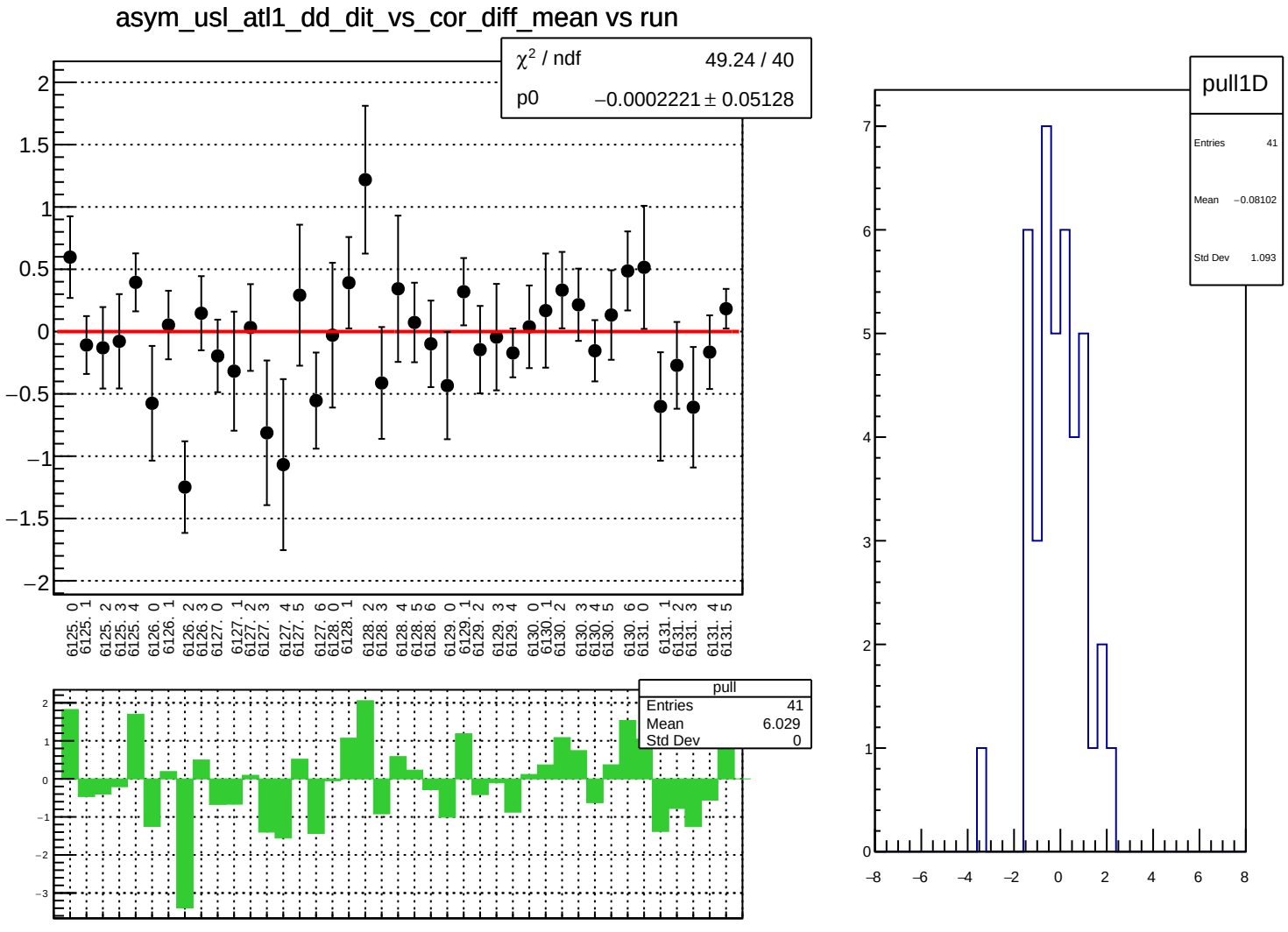

pull1D
Entries 41
Mean −0.001499
Std Dev 1.039
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

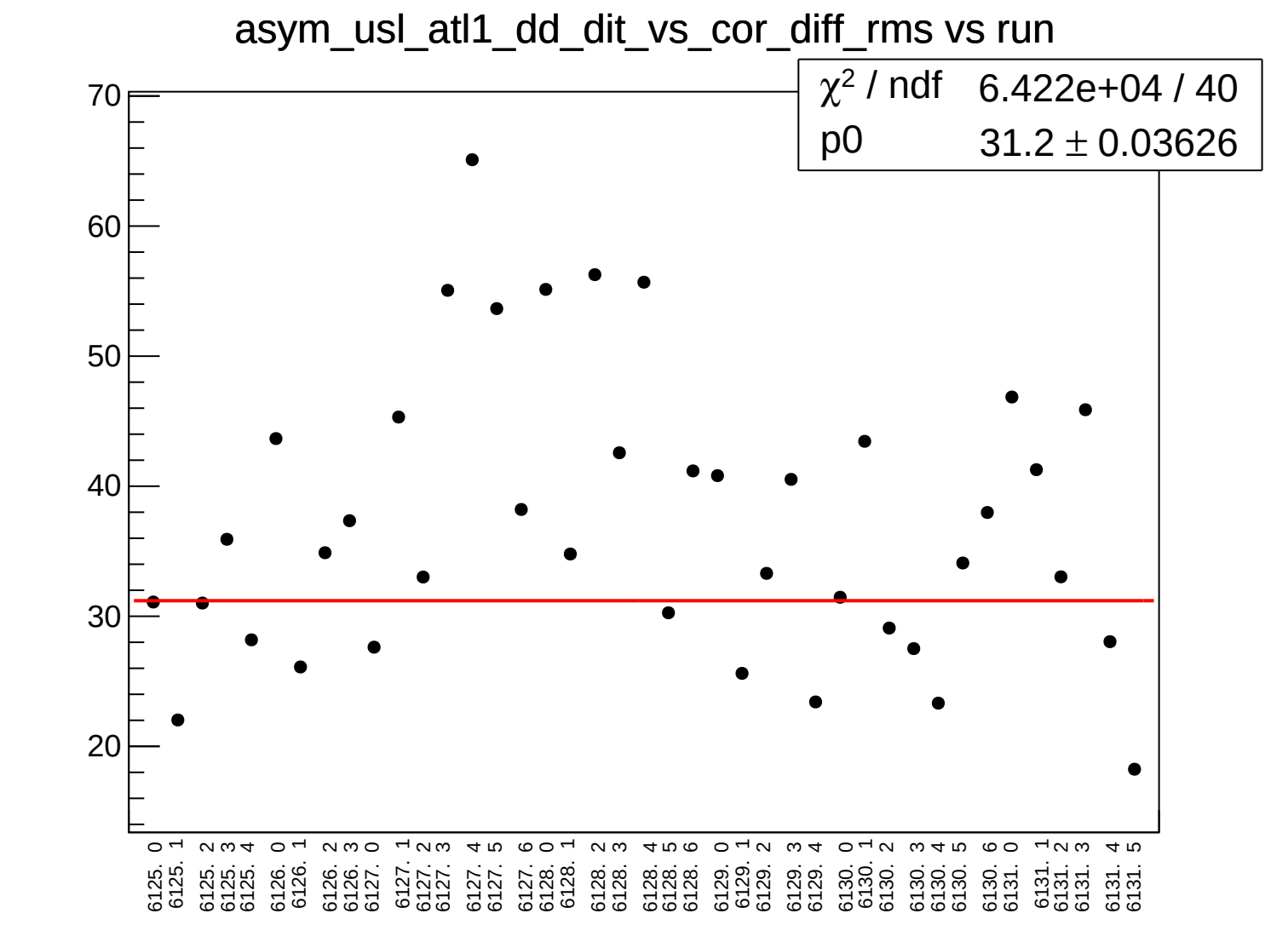

asym_usl_atl1_dd_rms vs run
χ² / ndf 57.33 / 40
p0 1210 ± 1.349
1250
1240
1230
1220
1210
1200
1190
1180
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

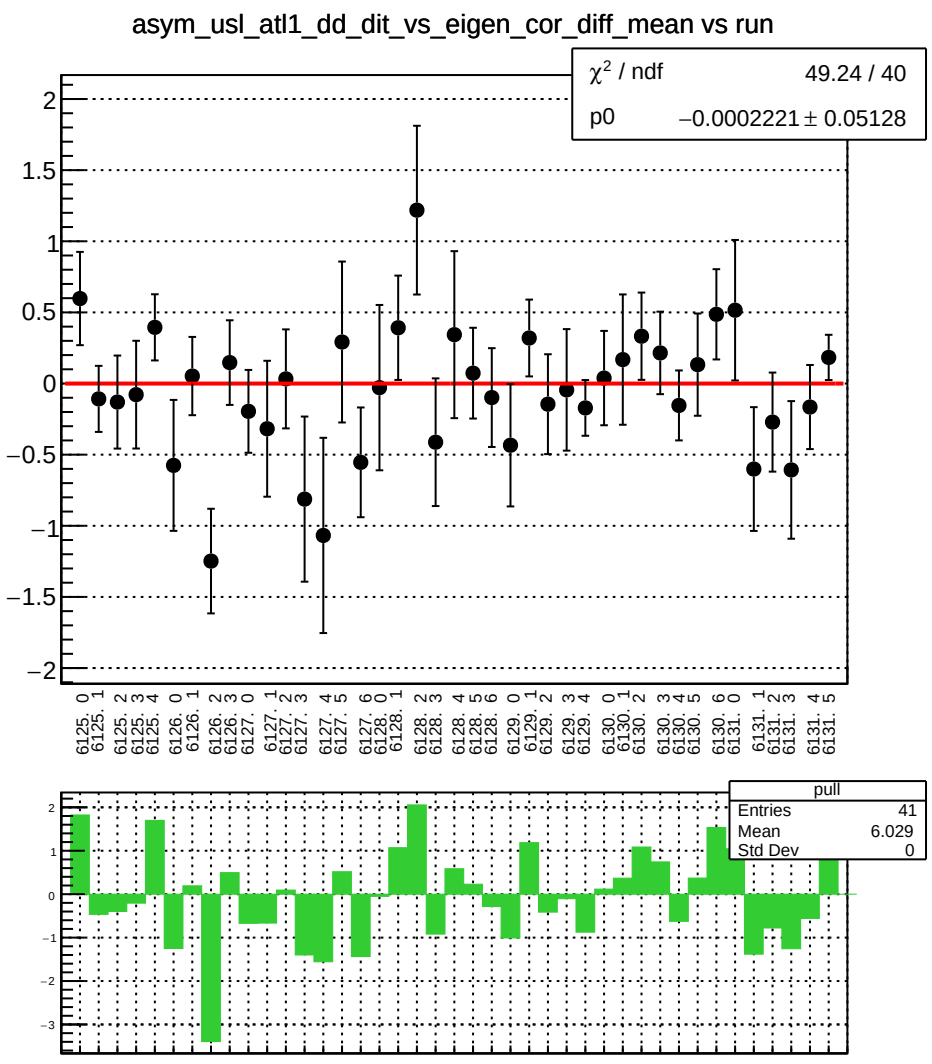

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 33.08 / 40
p0 −2.901e−15 ± 3.016e−14
0.004
0.002
0
−0.002
−0.004
−0.006
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1.412
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

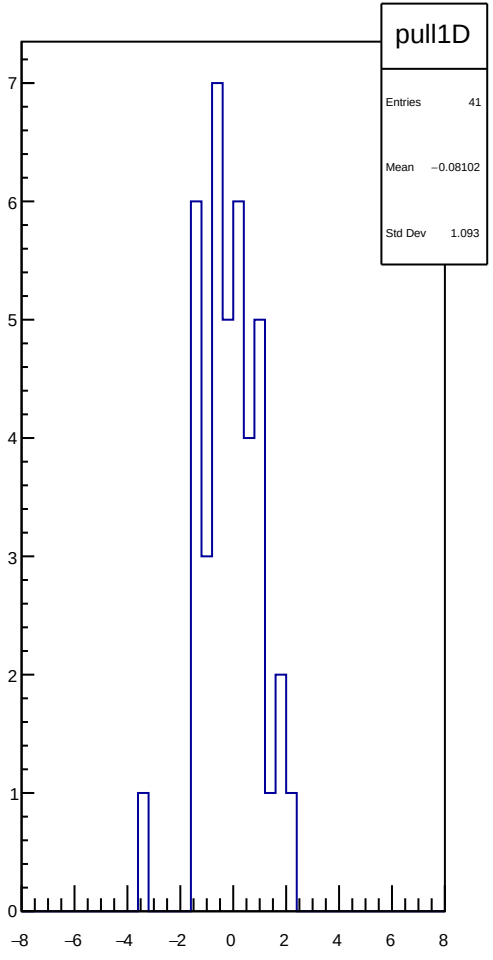

pull1D
Entries 41
Mean 0.09303
Std Dev 0.8934
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

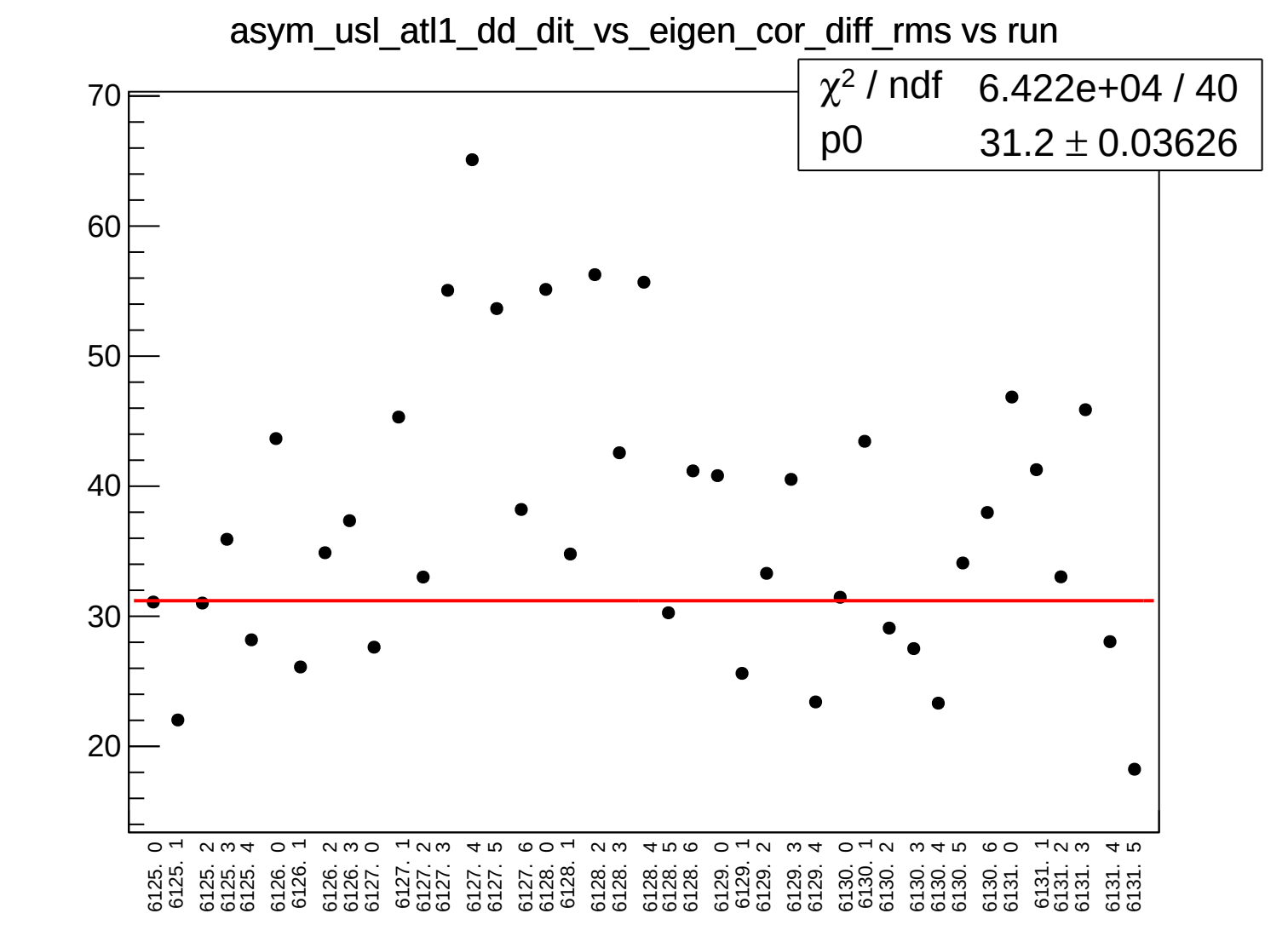

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.699e+05 / 40
p0 1.406e−11 ± 2.133e−14
0.3
0.25
0.2
0.15
0.1
0.05
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

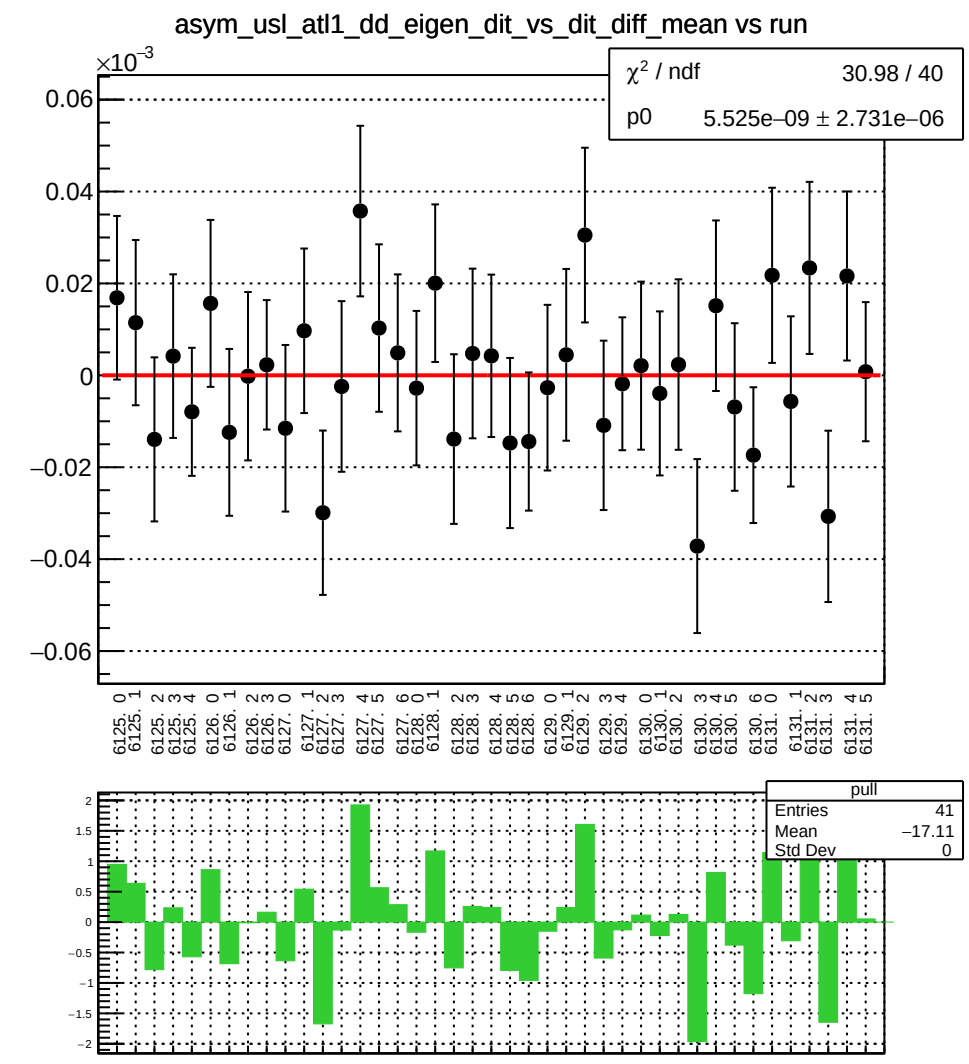

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 49.24 / 40
p0 −0.0002221 ± 0.05128
pull
Entries 41
Mean 6.029
Std Dev 0
pull1D
Entries 41
Mean −0.08102
Std Dev 1.093

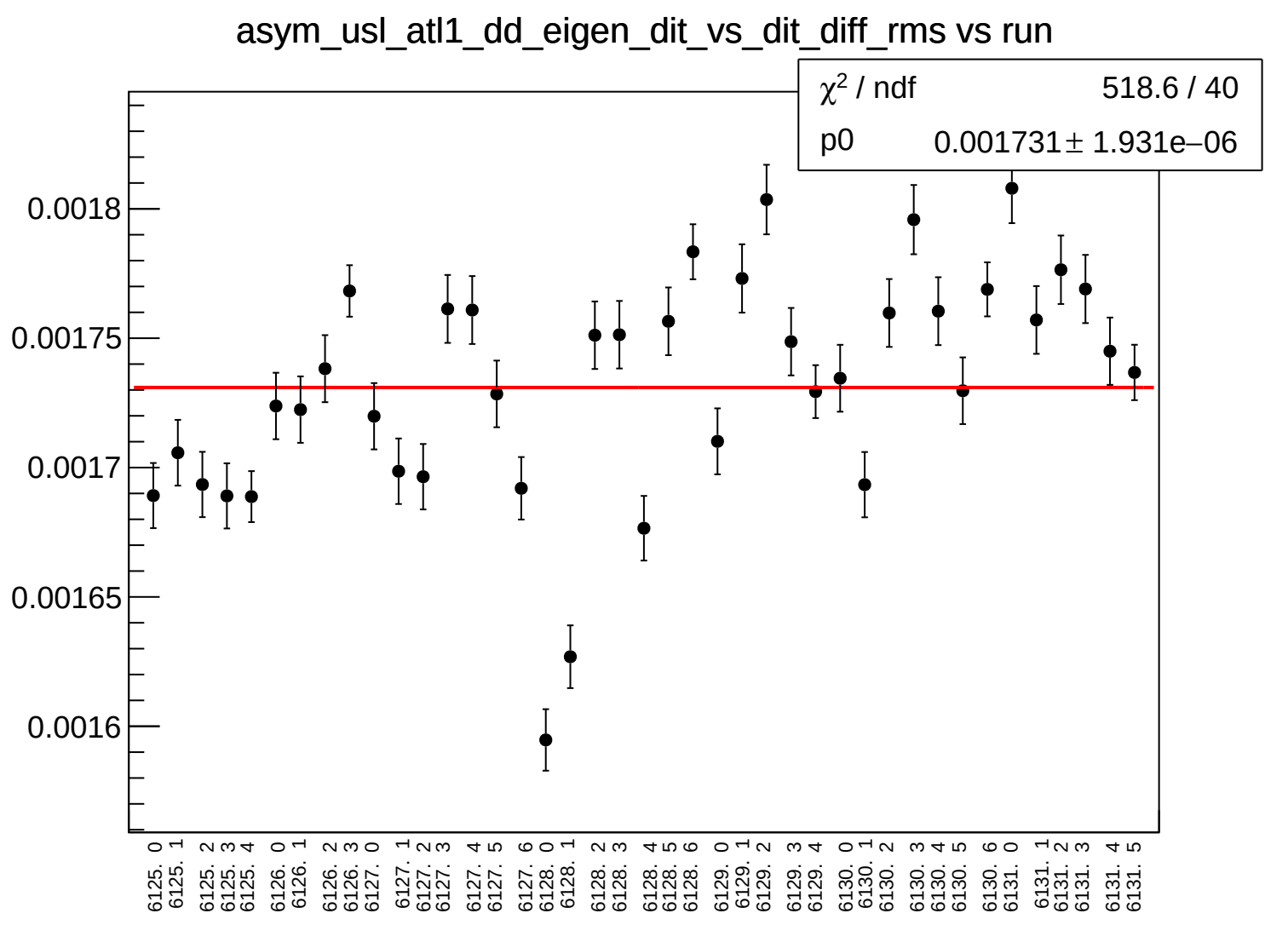

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.422e+04 / 40
p0 31.2 ± 0.03626
70
60
50
40
30
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

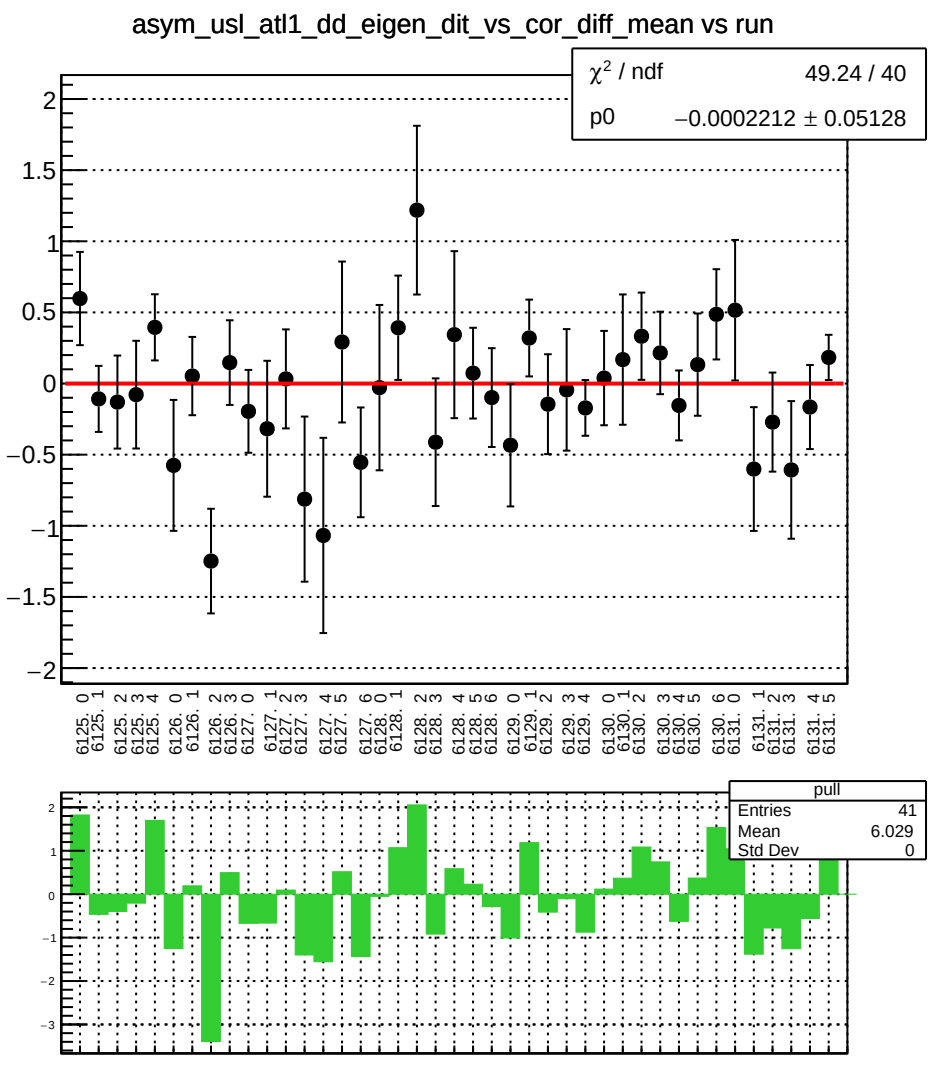

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.24 / 40
p0 −0.0002221 ± 0.05128
pull
Entries 41
Mean 6.029
Std Dev 0

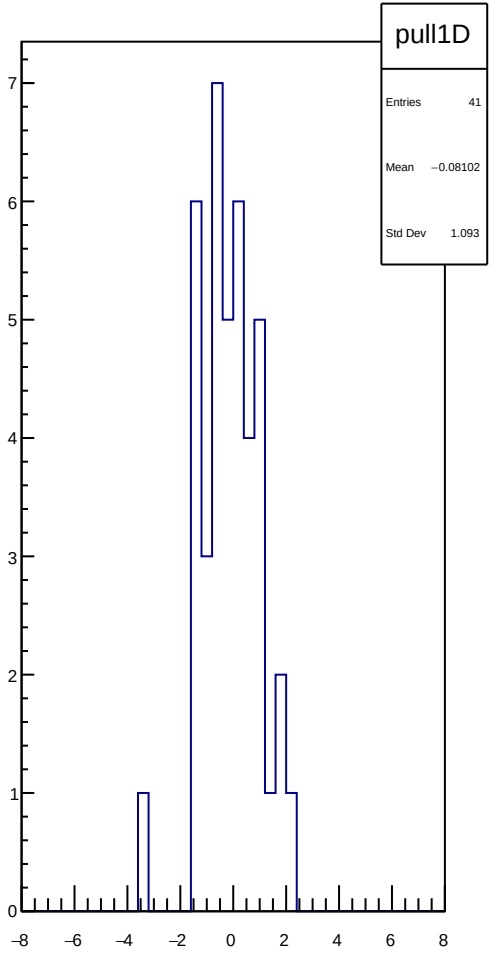

pull1D
Entries 41
Mean −0.08102
Std Dev 1.093

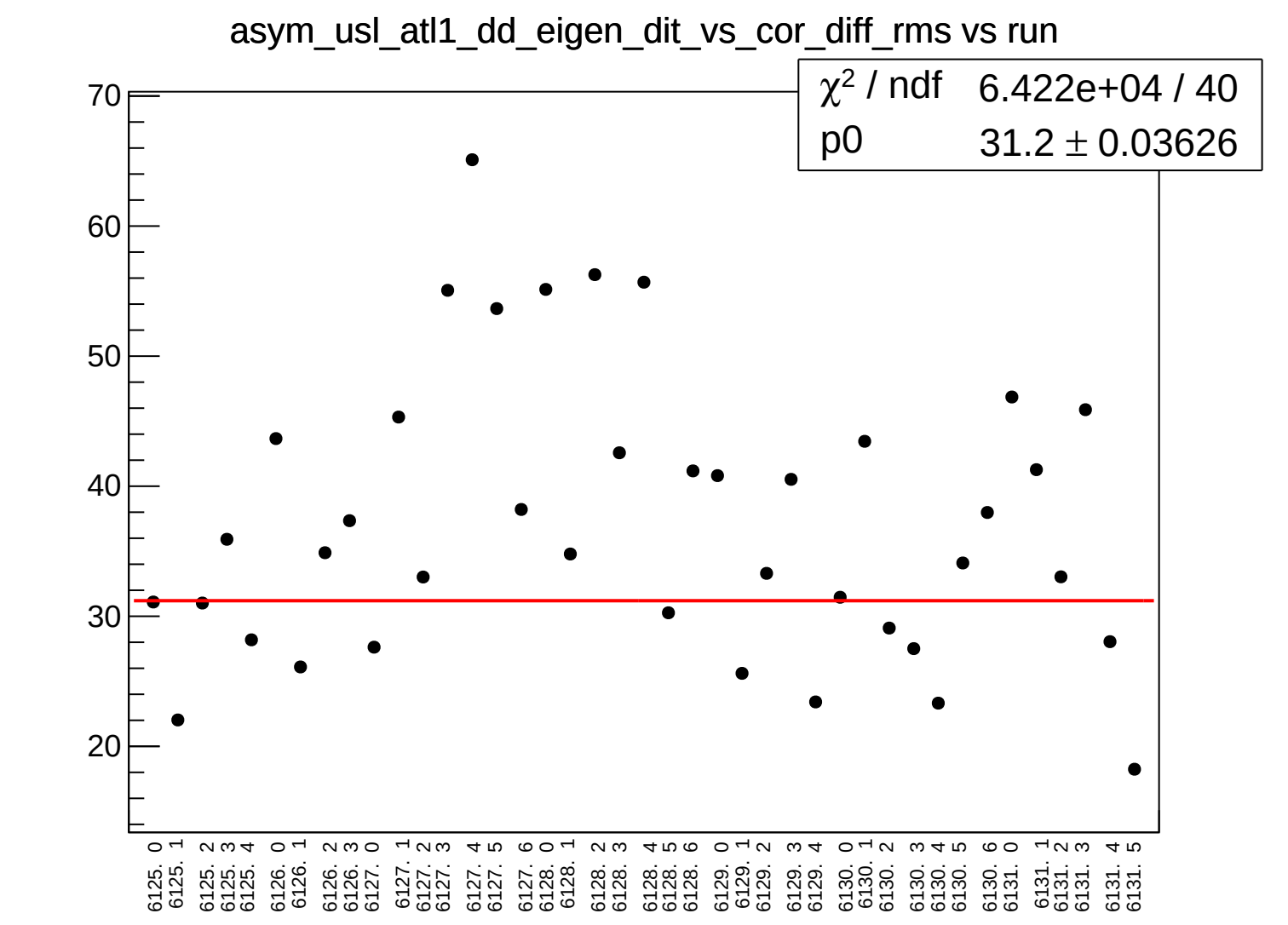

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.422e+04 / 40
p0 31.2 ± 0.03626
70
60
50
40
30
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

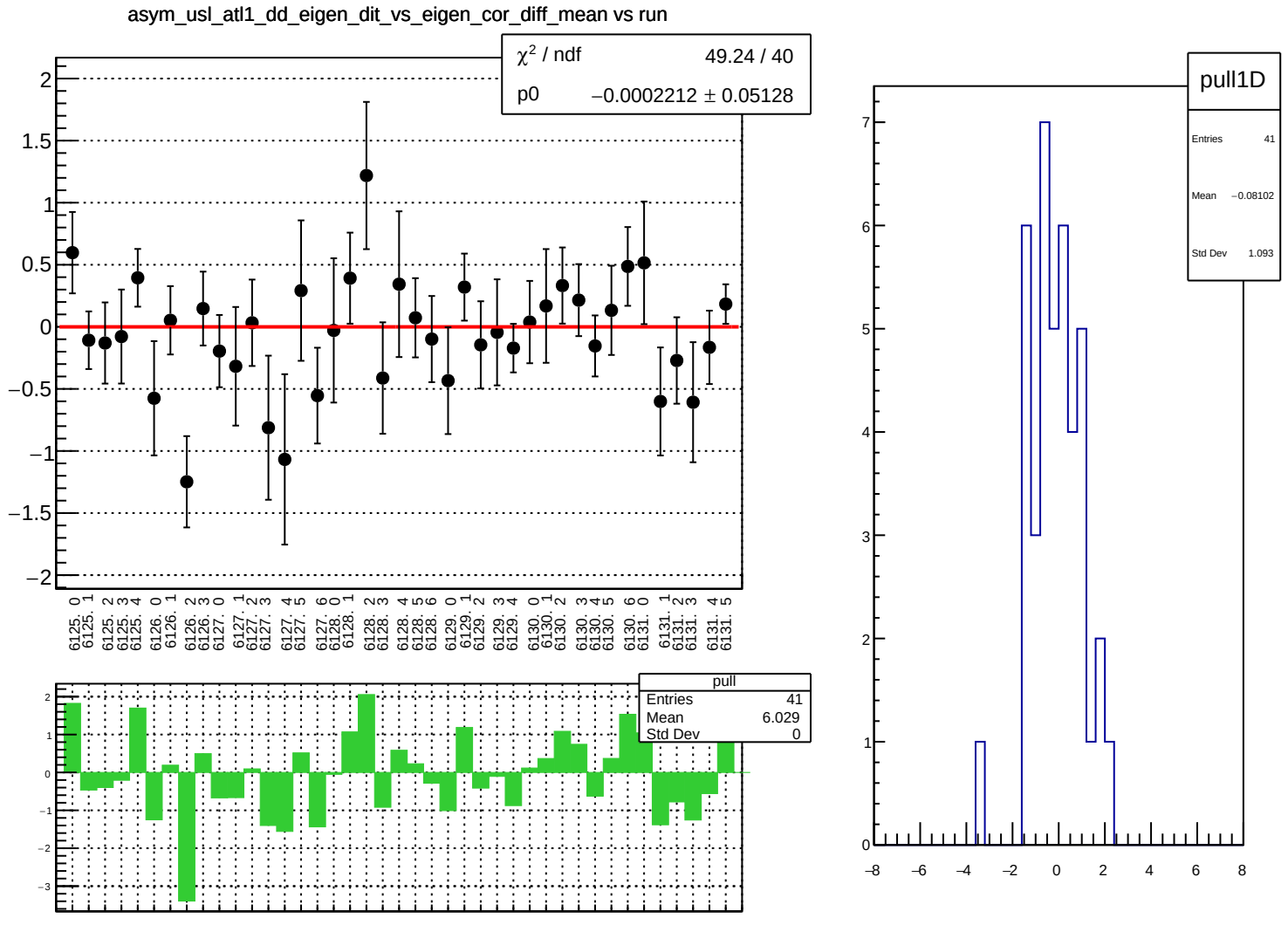

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 30.98 / 40
p0 5.525e−09 ± 2.731e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −17.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.01535
Std Dev 0.8691
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

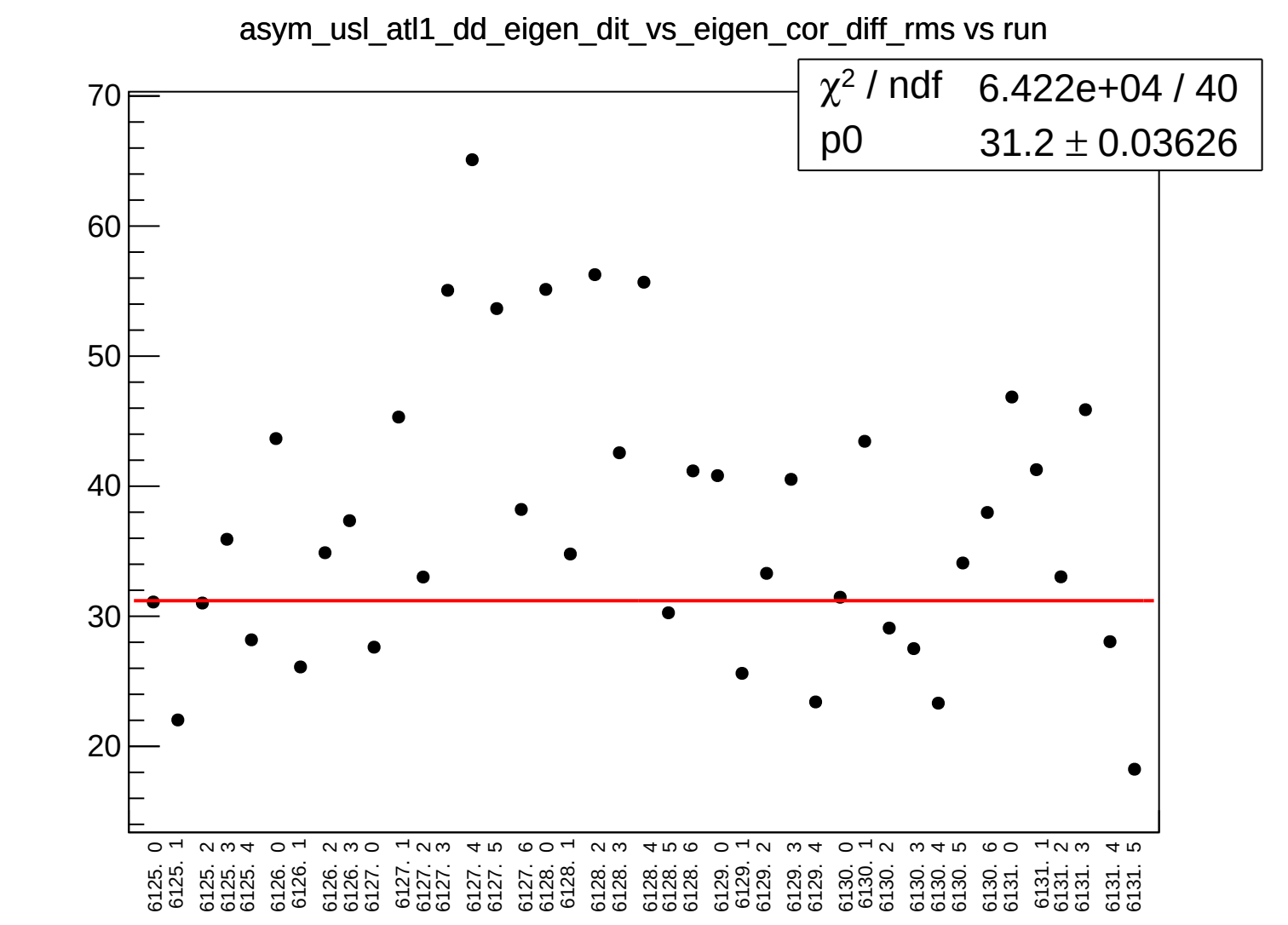

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 518.6 / 40
p0 0.001731 ± 1.931e−06
0.0018
0.00175
0.0017
0.00165
0.0016
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

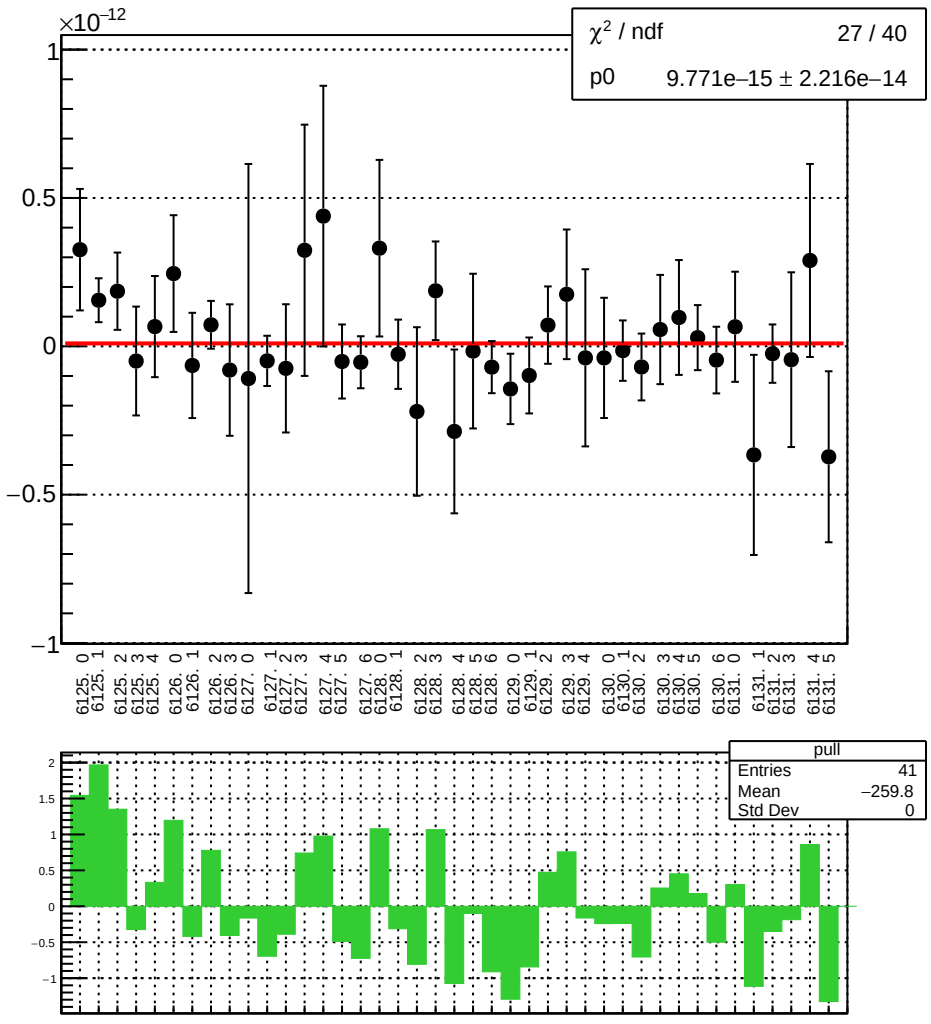

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 49.24 / 40
p0 −0.0002212 ± 0.05128
pull
Entries 41
Mean 6.029
Std Dev 0

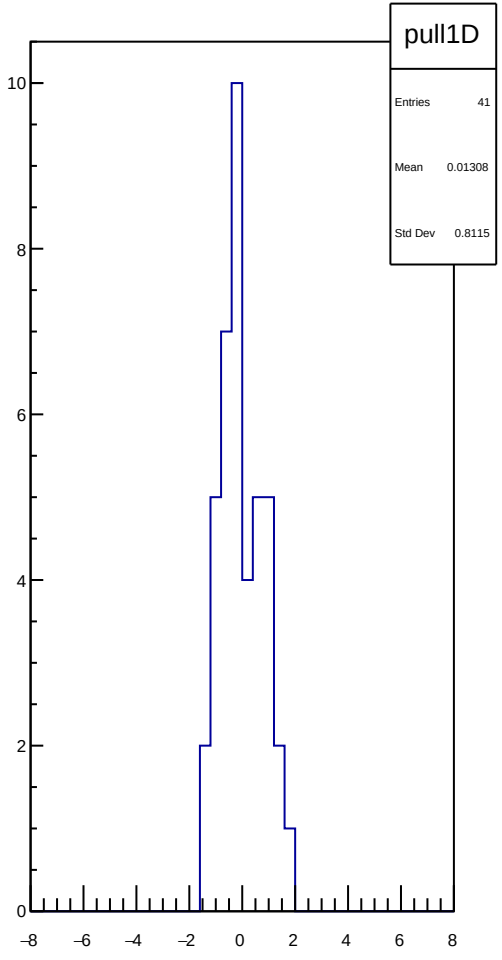

pull1D
Entries 41
Mean −0.08102
Std Dev 1.093

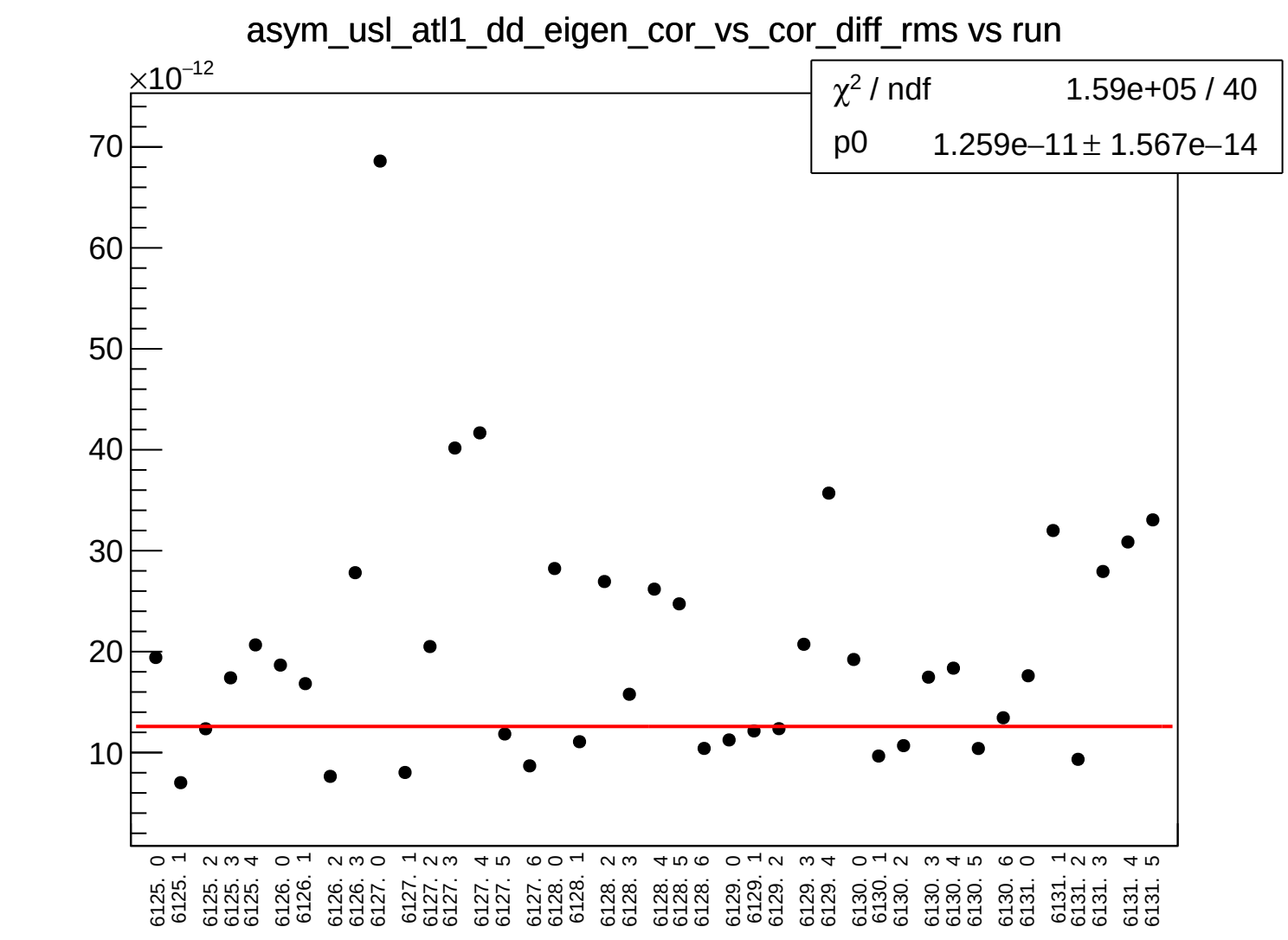

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.422e+04 / 40
p0 31.2 ± 0.03626
70
60
50
40
30
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

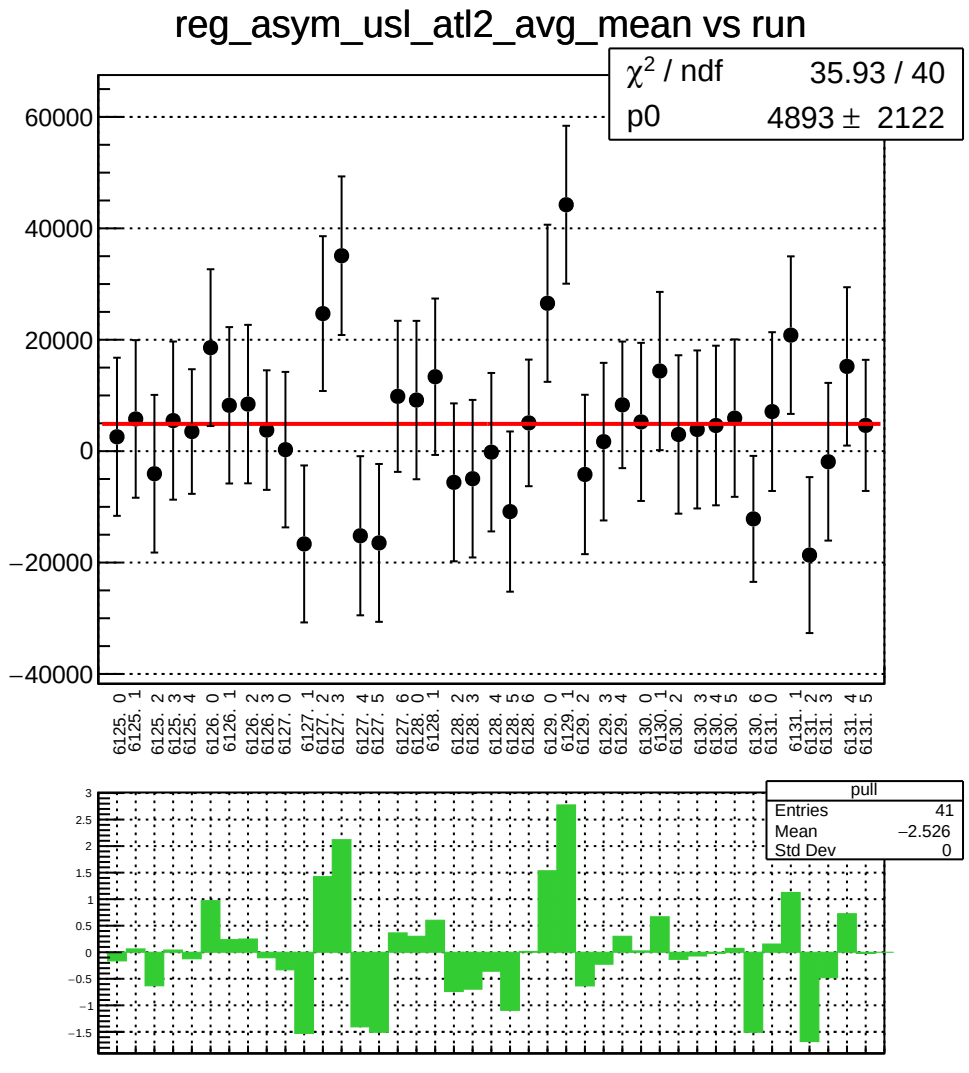

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.24 / 40
p0 −0.0002212 ± 0.05128
pull
Entries 41
Mean 6.029
Std Dev 0
pull1D
Entries 41
Mean −0.08102
Std Dev 1.093

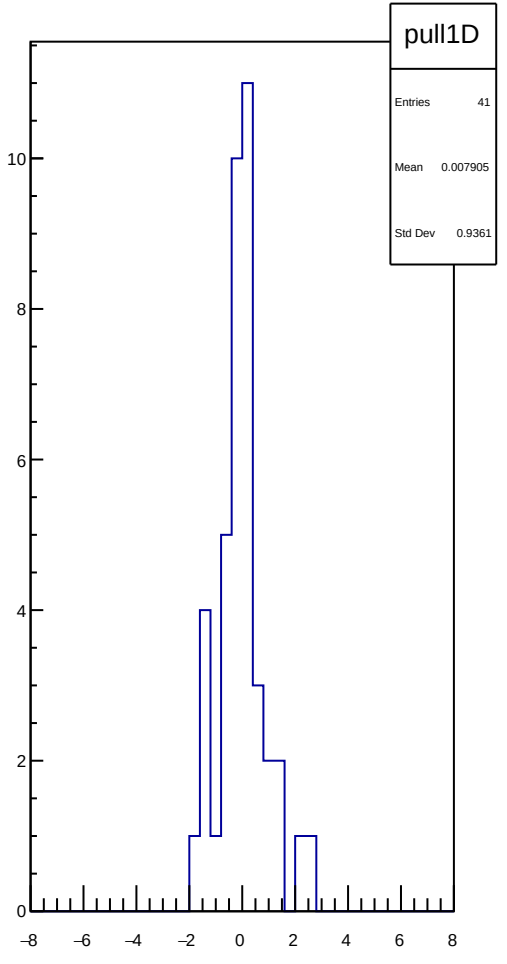

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.422e+04 / 40
p0 31.2 ± 0.03626
70
60
50
40
30
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

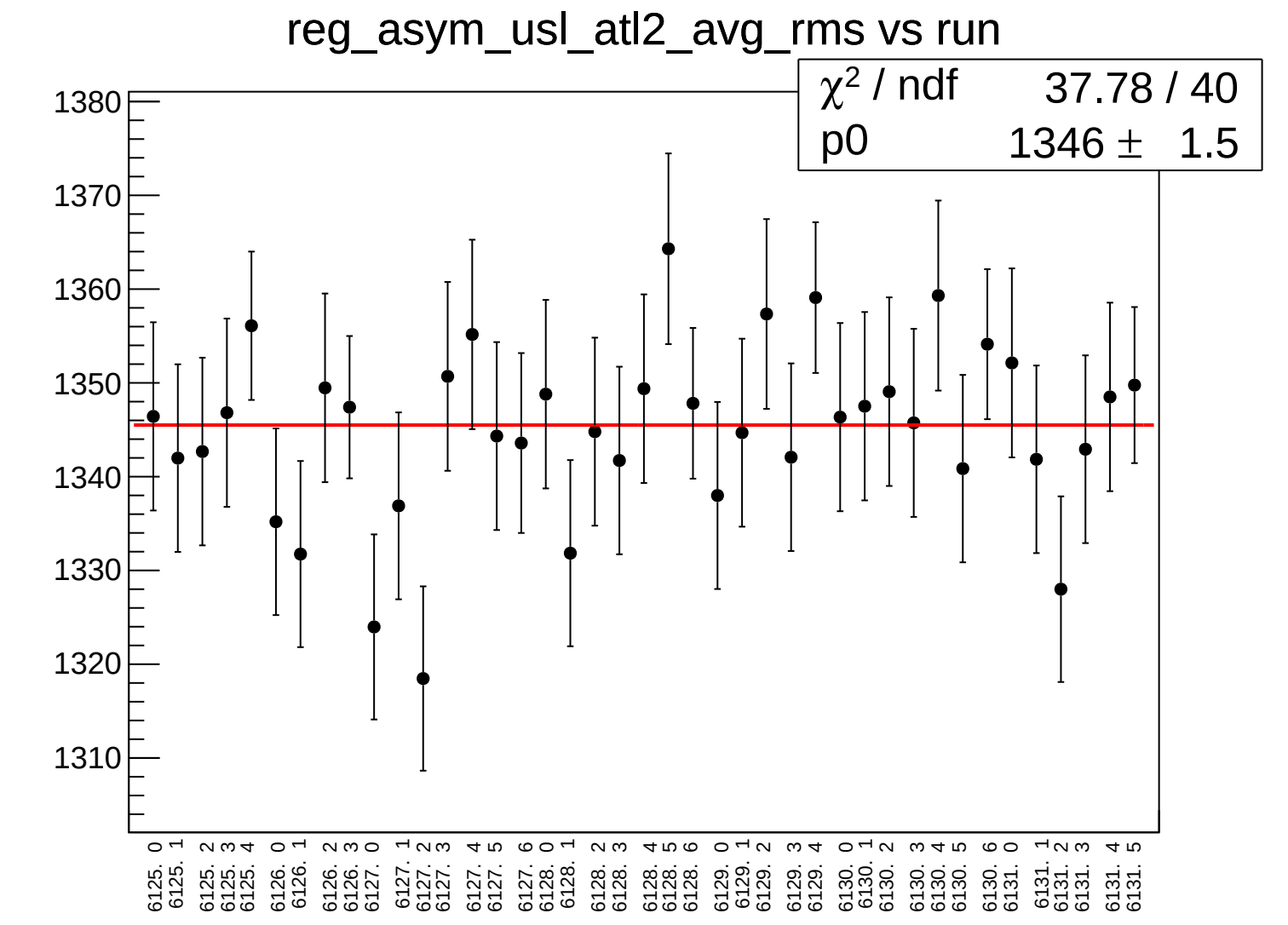

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 27 / 40
p0 9.771e−15 ± 2.216e−14
pull
Entries 41
Mean −259.8
Std Dev 0

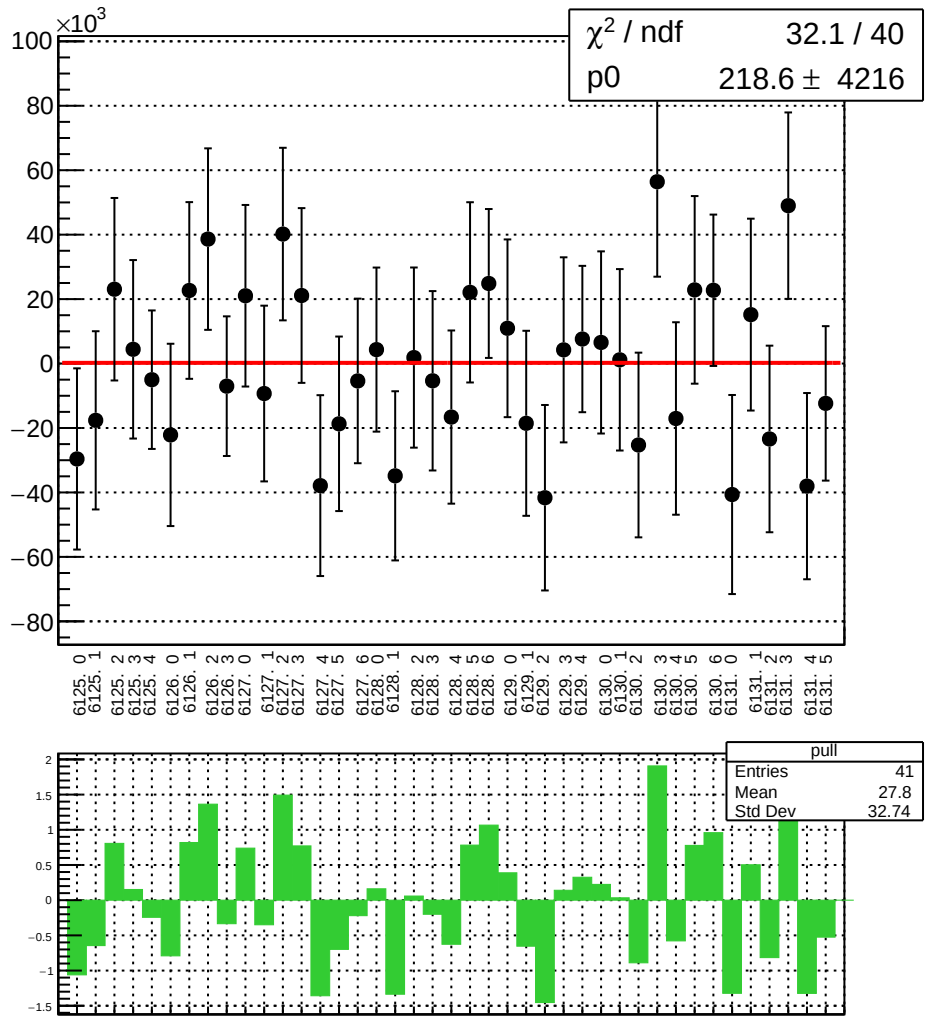

pull1D
Entries 41
Mean 0.01308
Std Dev 0.8115

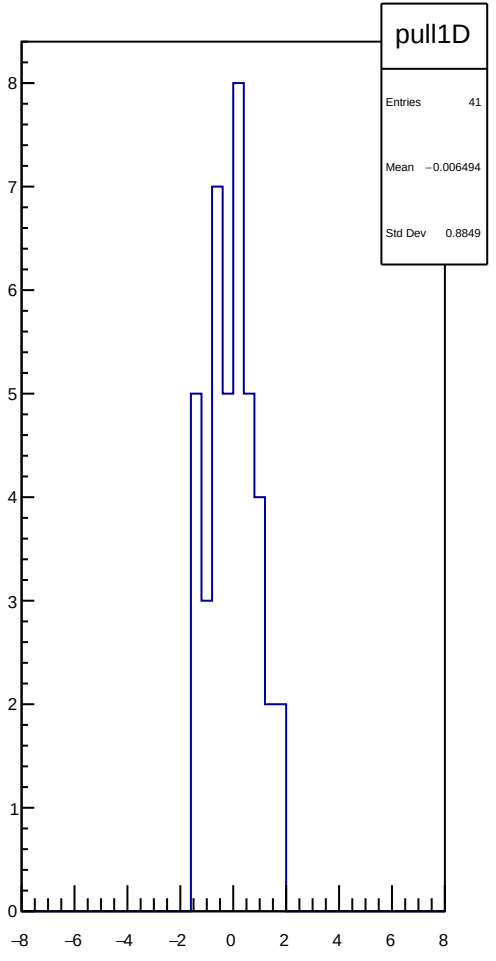

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.59e+05 / 40
p0 1.259e−11 ± 1.567e−14
70
60
50
40
30
20
10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

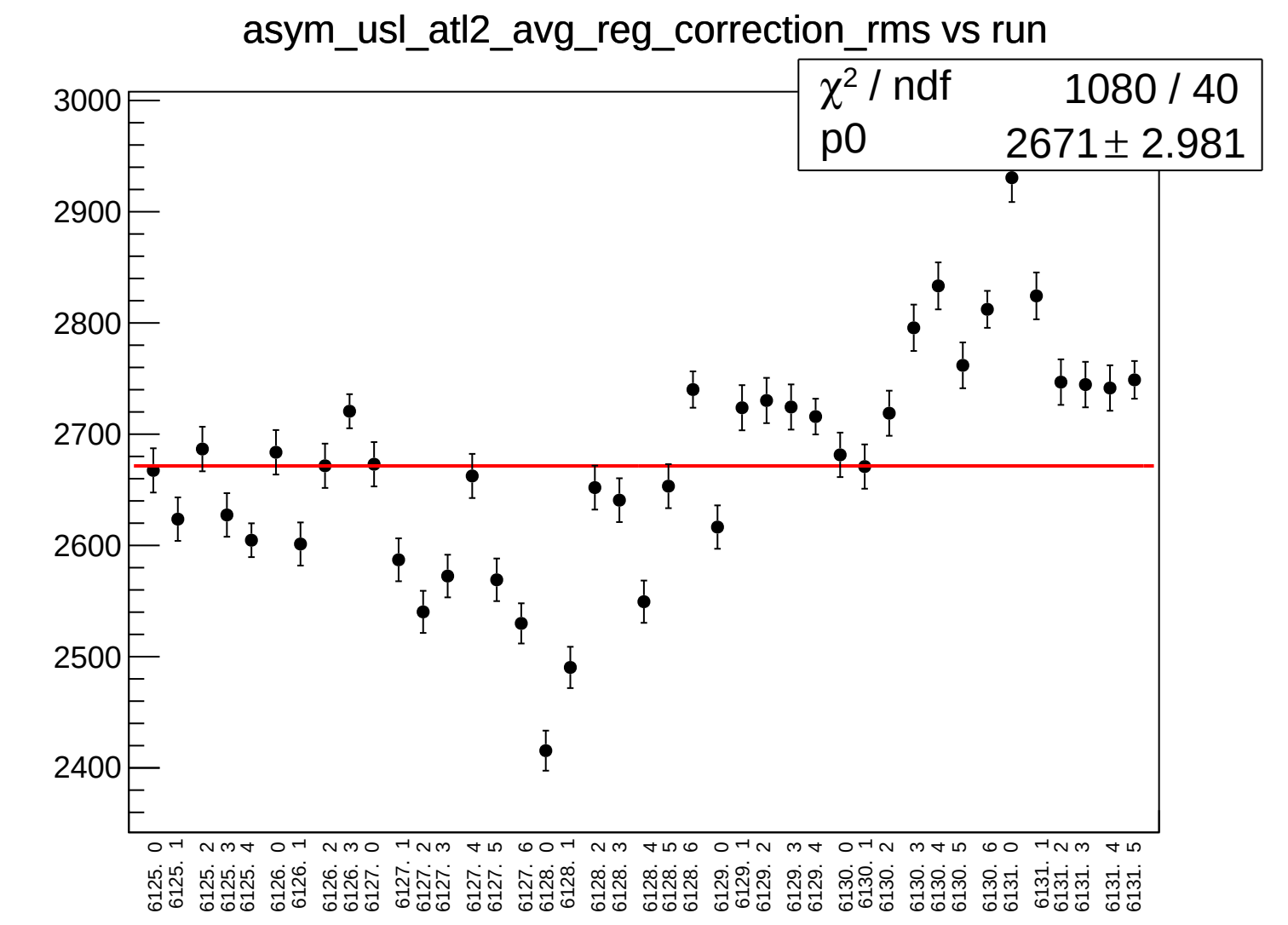

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 35.93 / 40
p0 4893 ± 2122
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −2.526
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

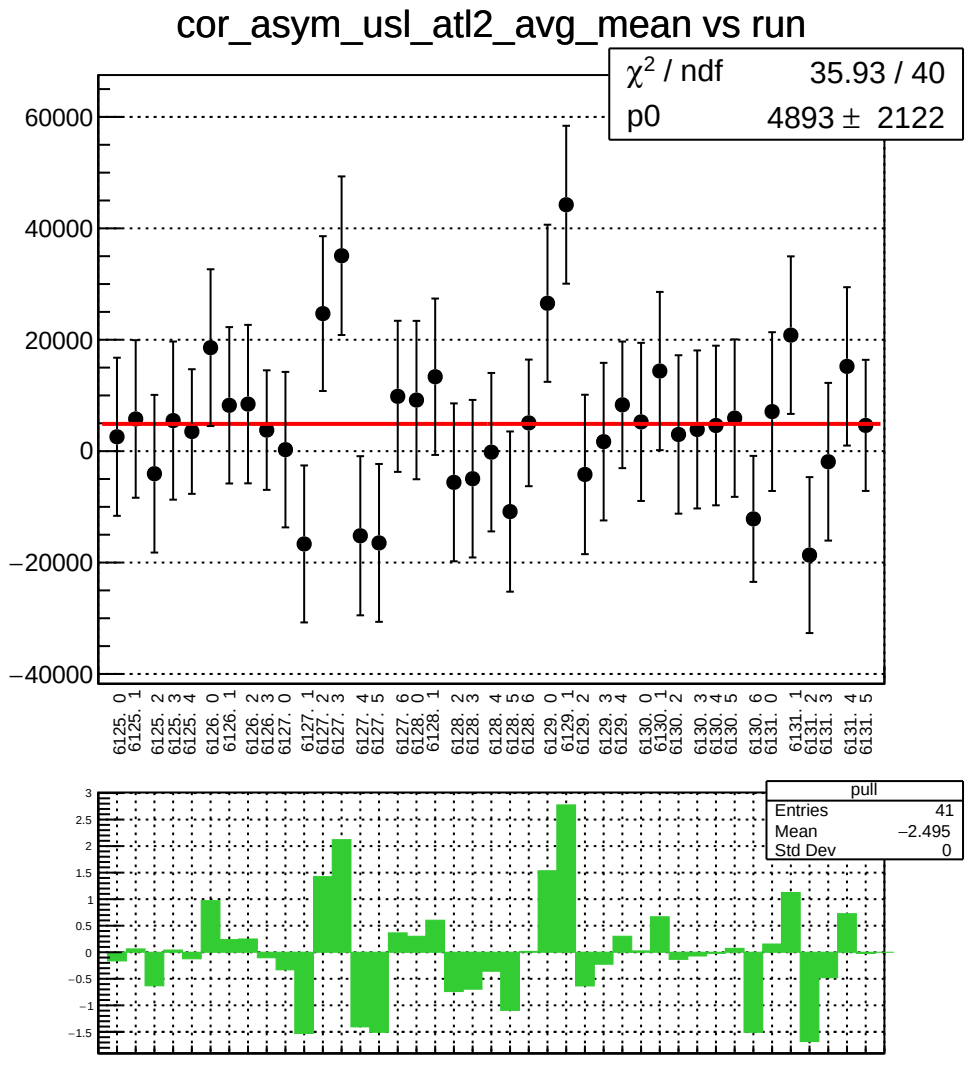

pull1D
Entries 41
Mean 0.007905
Std Dev 0.9361
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

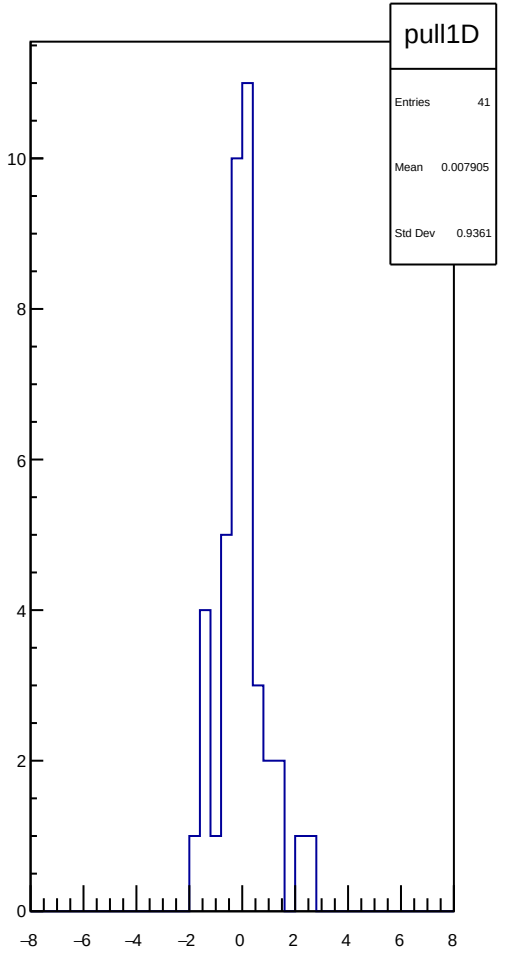

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 37.78 / 40
p0 1346 ± 1.5
1380
1370
1360
1350
1340
1330
1320
1310
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

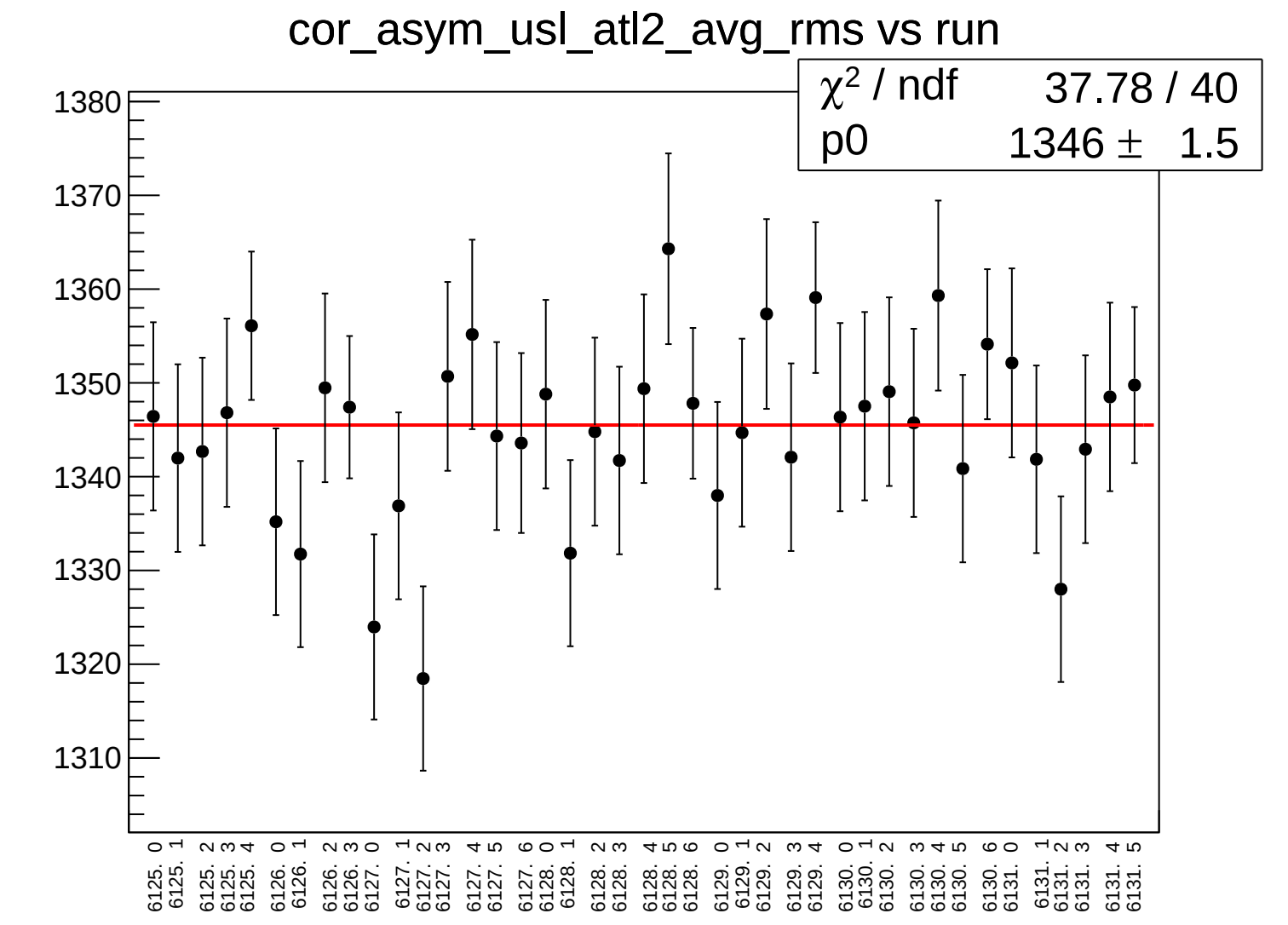

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 32.1 / 40
p0 218.6 ± 4216
pull
Entries 41
Mean 27.8
Std Dev 32.74

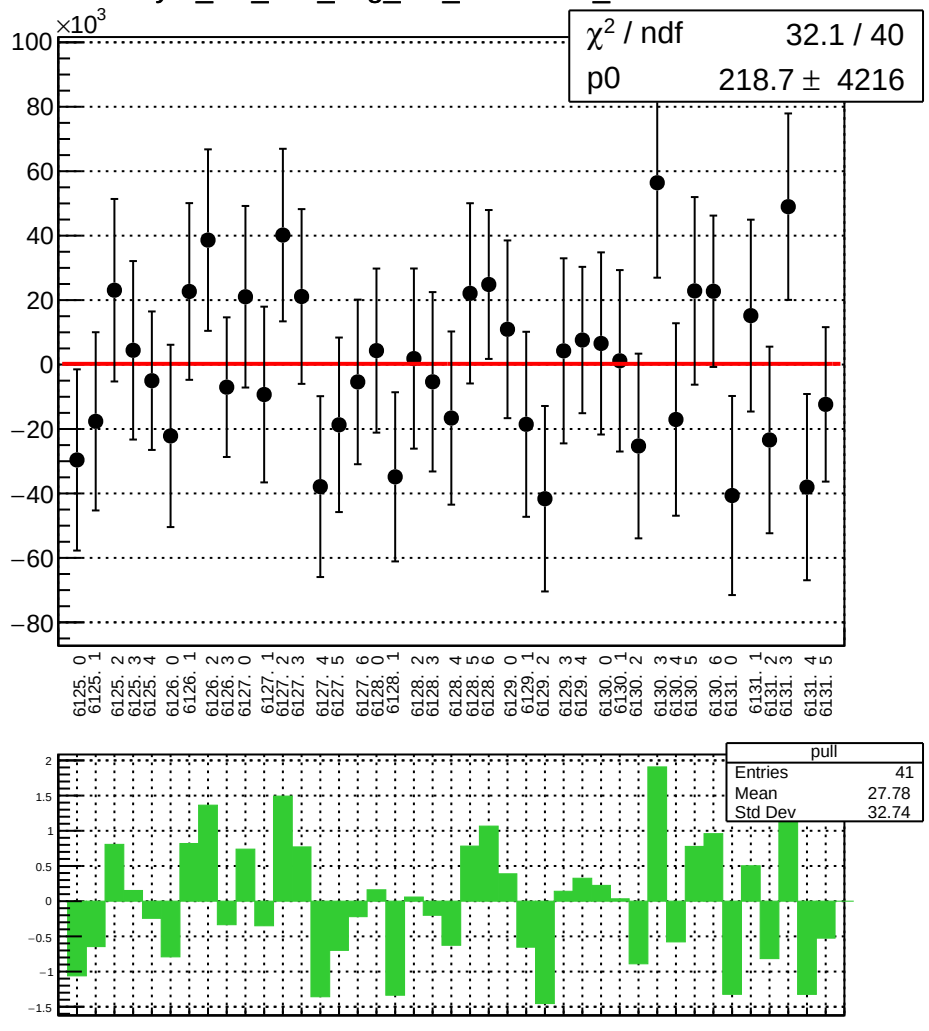

pull1D
Entries 41
Mean −0.006494
Std Dev 0.8849

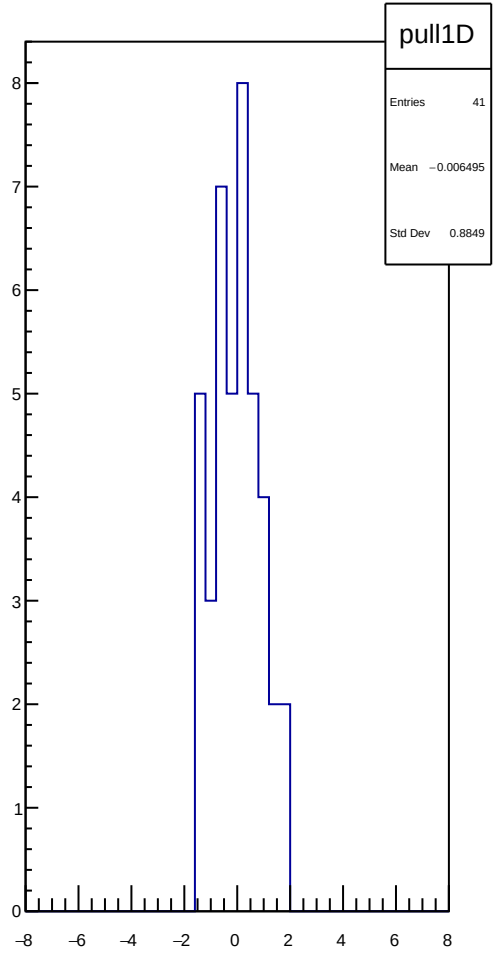

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 1080 / 40
p0 2671 ± 2.981
3000
2900
2800
2700
2600
2500
2400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

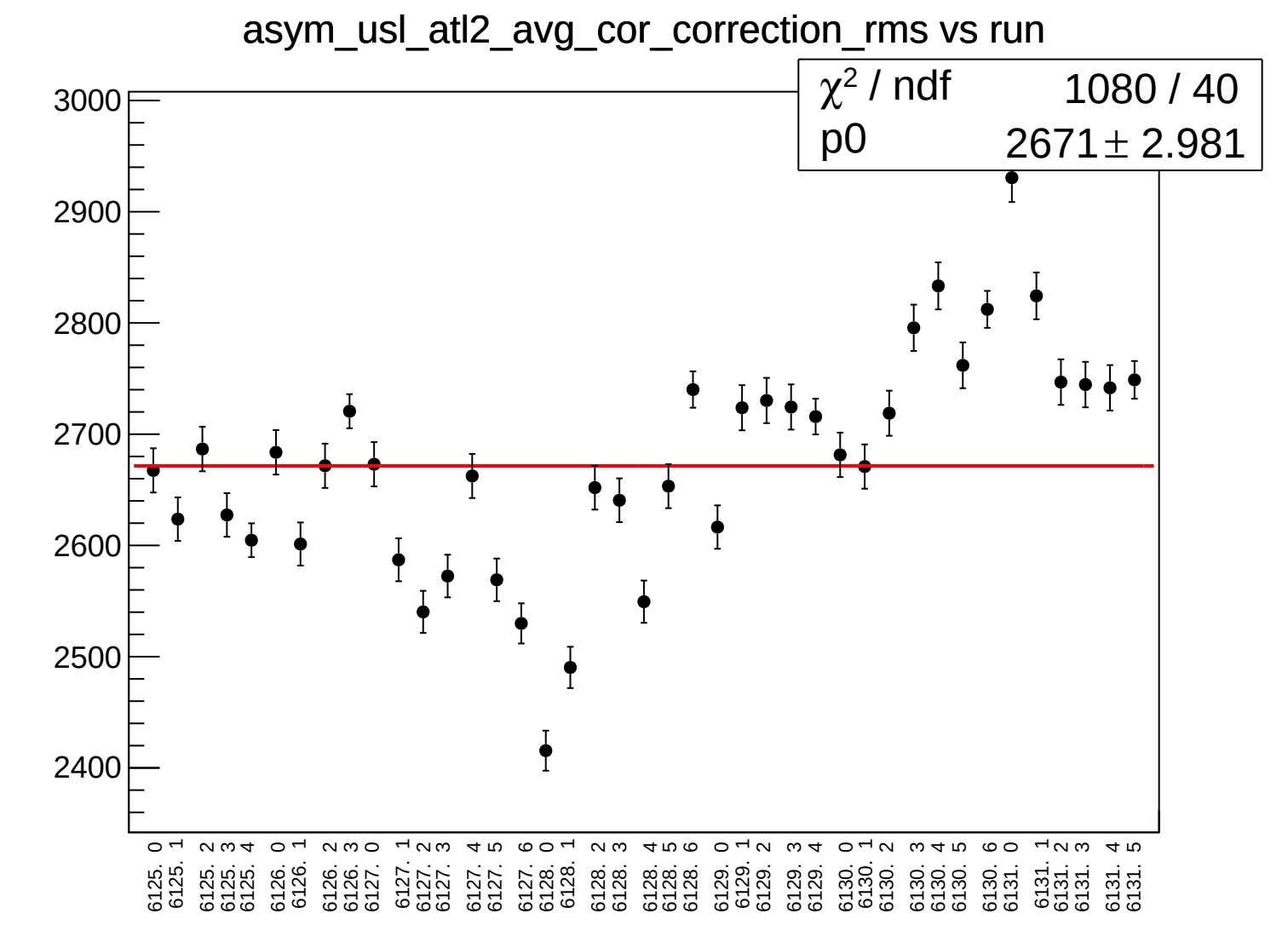

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 35.93 / 40
p0 4893 ± 2122
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −2.495
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

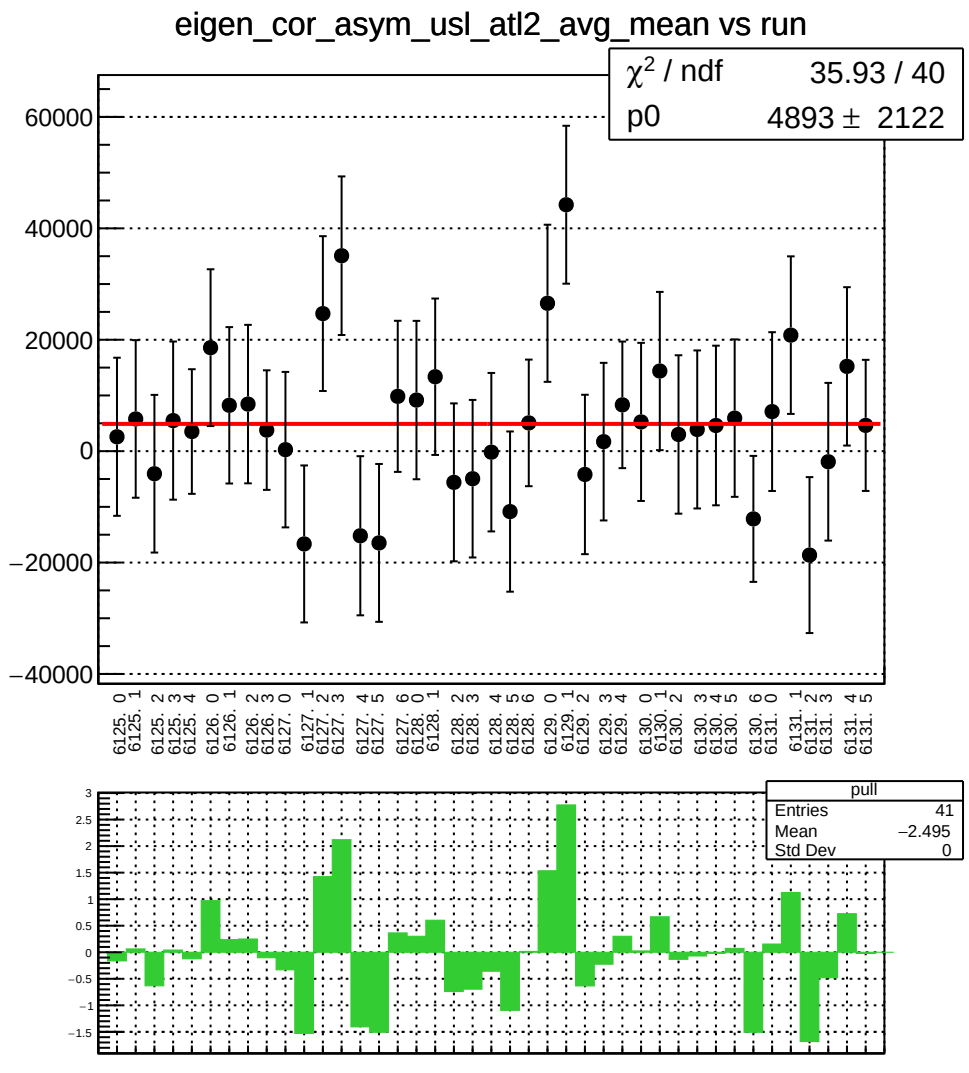

pull1D
Entries 41
Mean 0.007905
Std Dev 0.9361
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

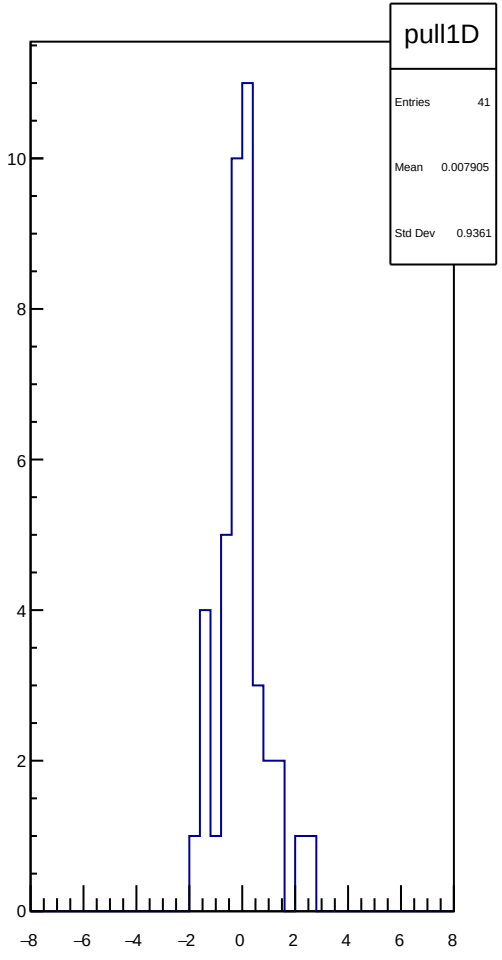

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 37.78 / 40
p0 1346 ± 1.5
1380
1370
1360
1350
1340
1330
1320
1310
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

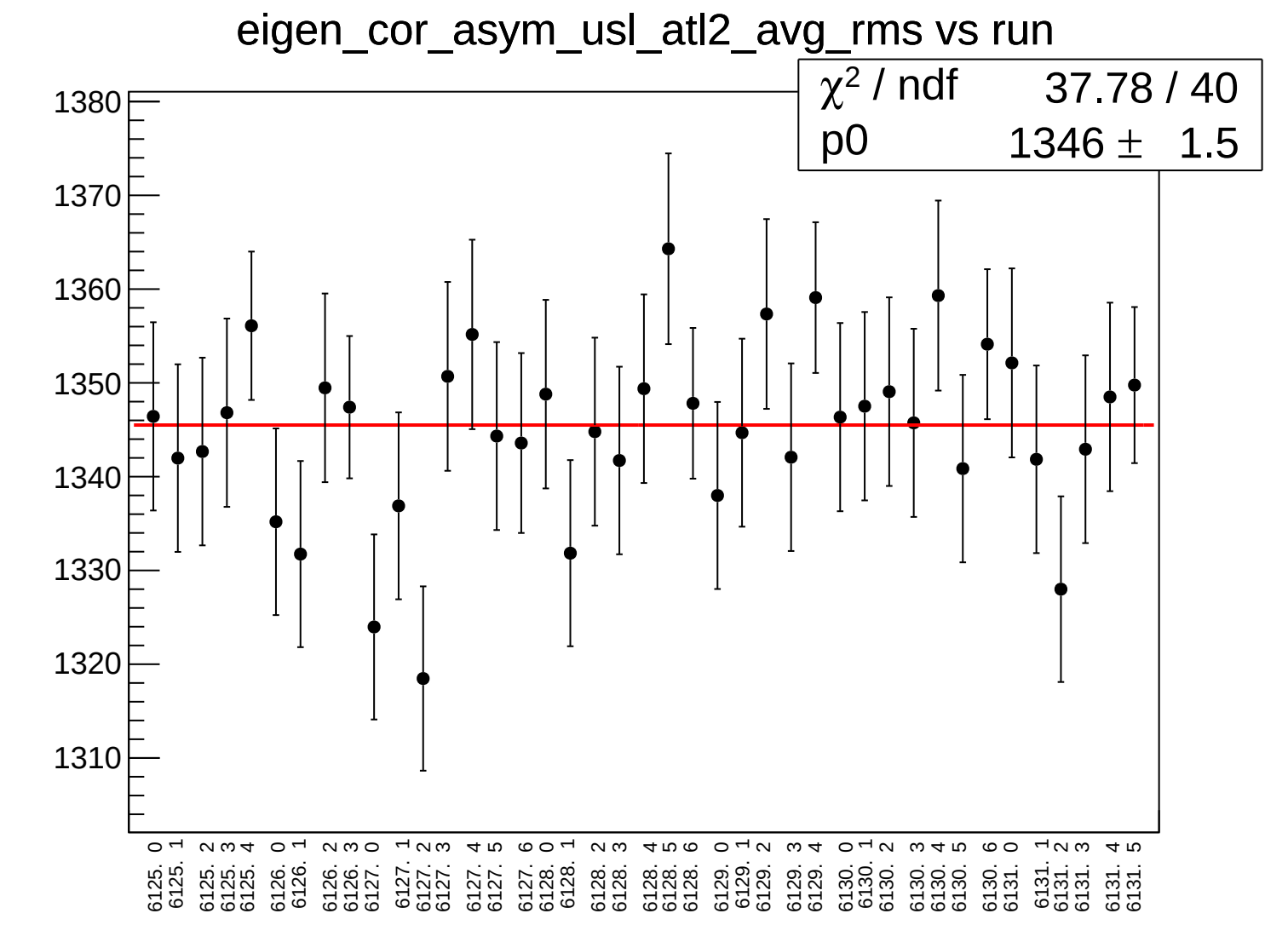

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 32.1 / 40
p0 218.7 ± 4216
pull
Entries 41
Mean 27.78
Std Dev 32.74

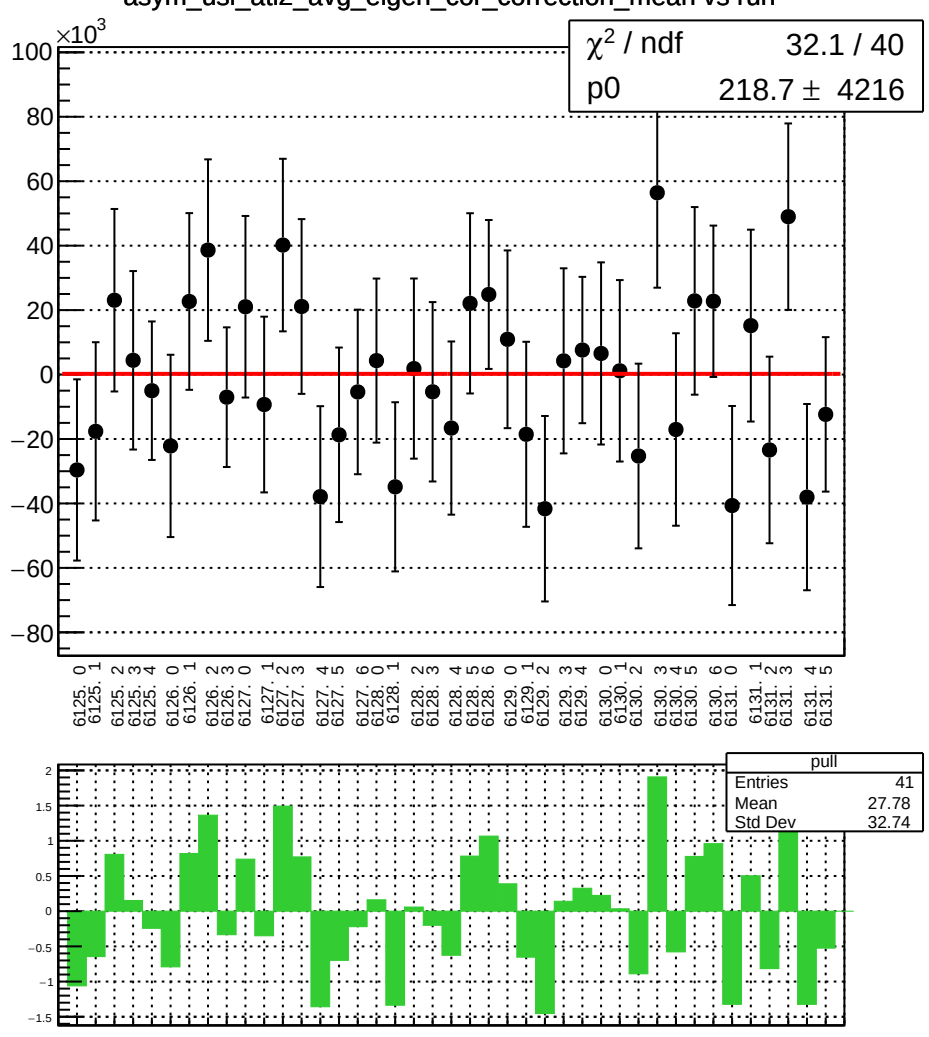

pull1D
Entries 41
Mean −0.006495
Std Dev 0.8849

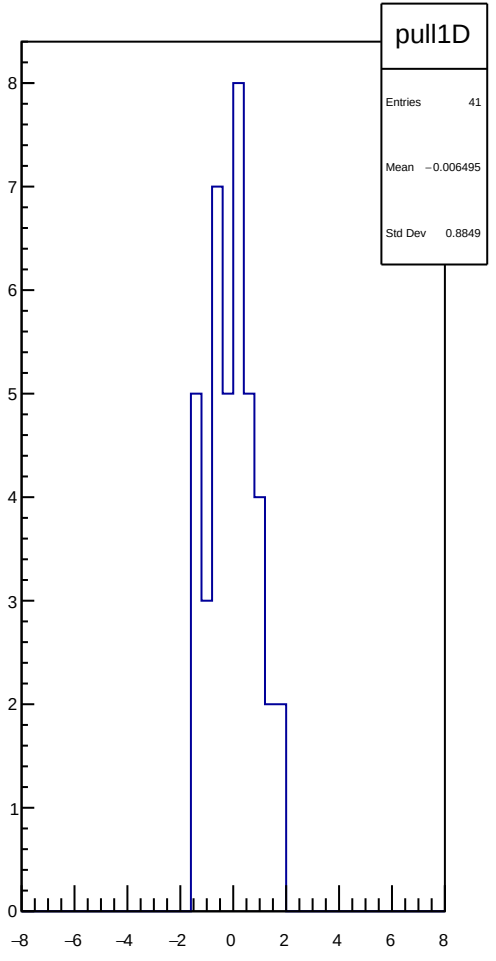

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 1080 / 40
p0 2671 ± 2.981
3000
2900
2800
2700
2600
2500
2400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

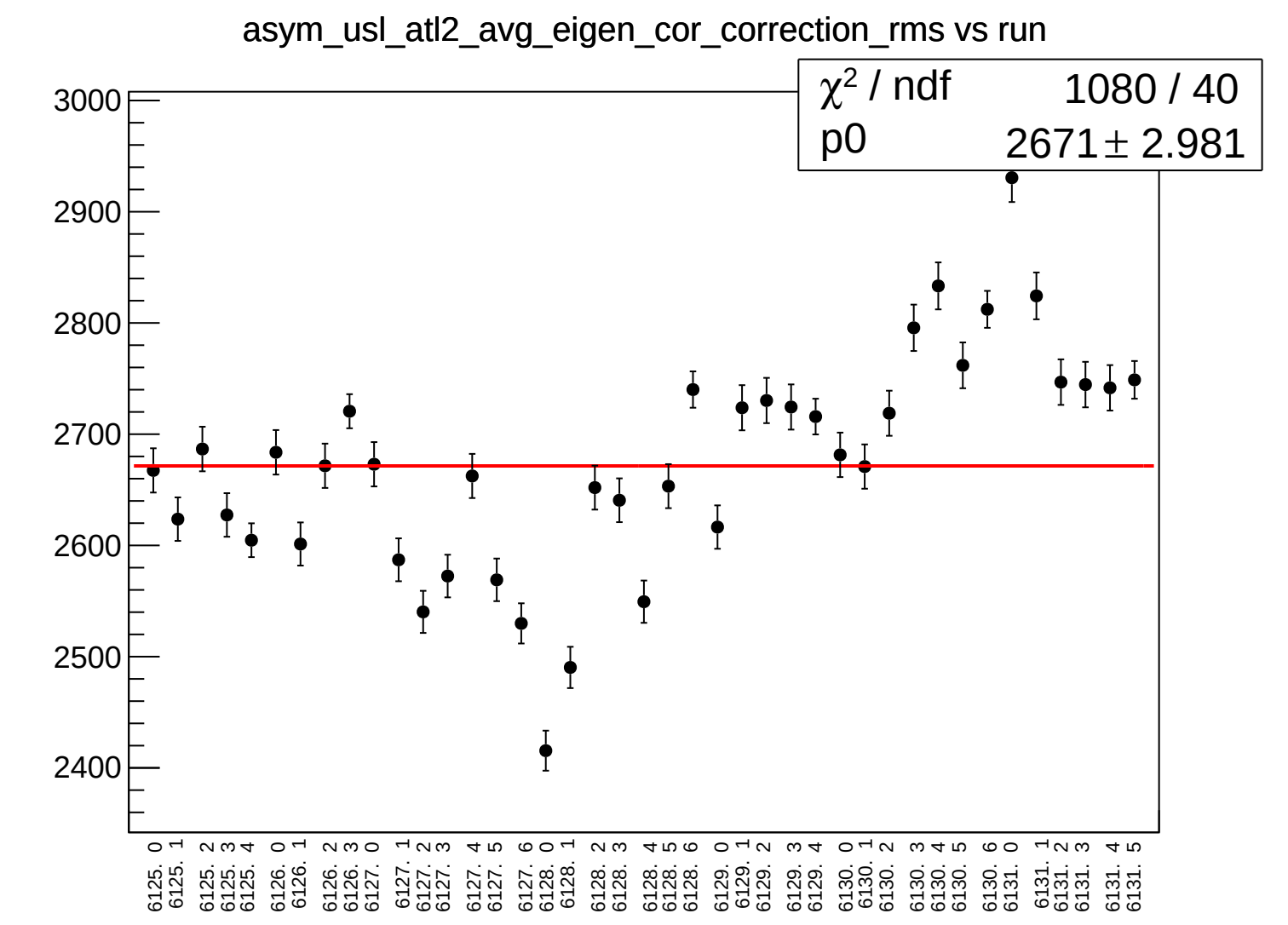

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 35.93 / 40
p0 4893 ± 2122
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −2.495
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

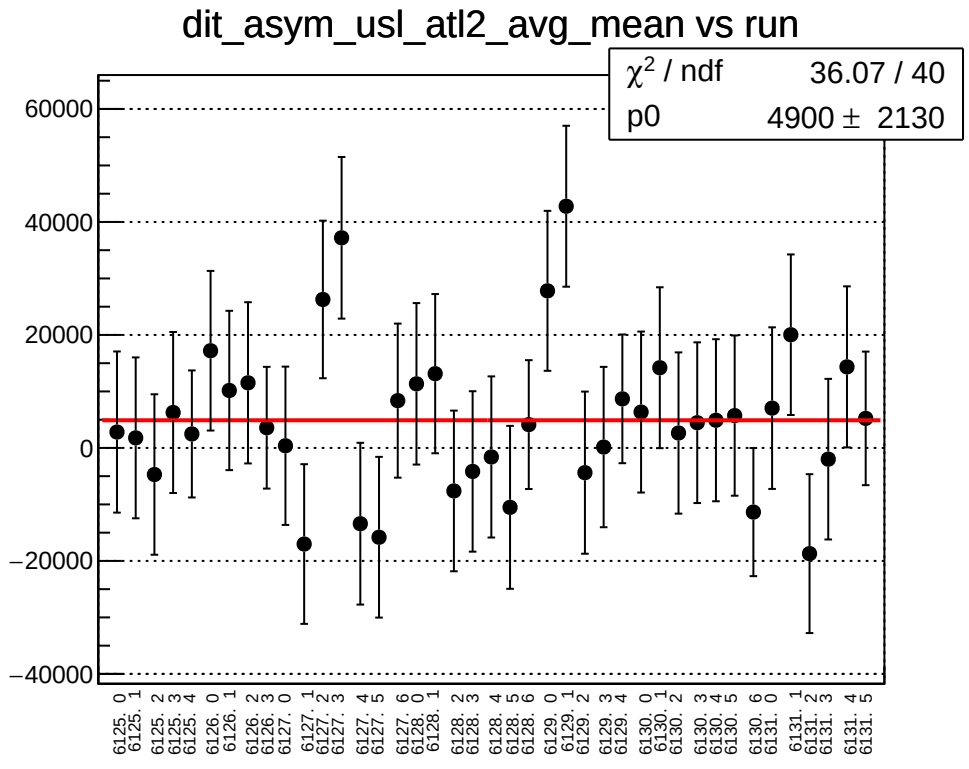

pull1D
Entries 41
Mean 0.007905
Std Dev 0.9361
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

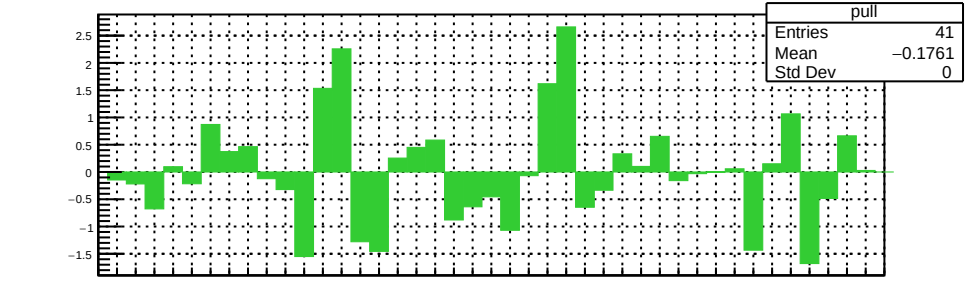

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 37.78 / 40
p0 1346 ± 1.5
1380
1370
1360
1350
1340
1330
1320
1310
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

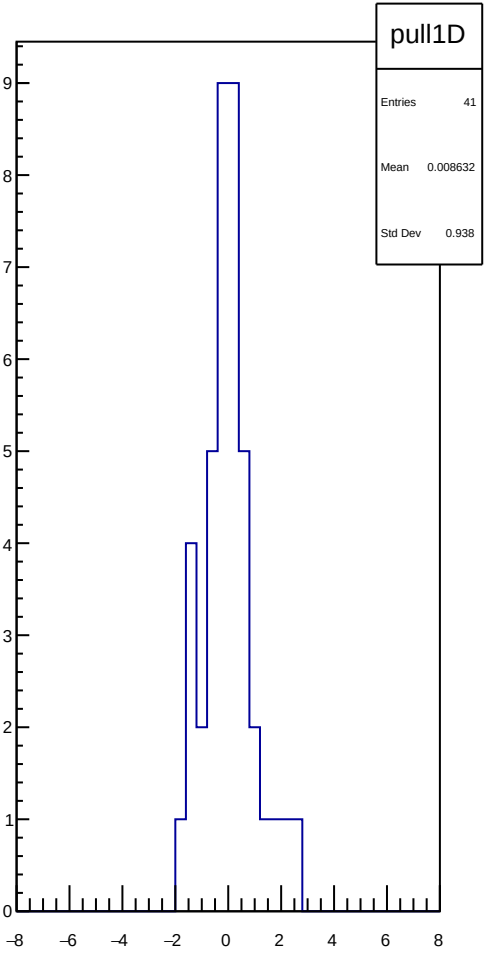

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 32.1 / 40
p0 218.7 ± 4216
pull
Entries 41
Mean 27.78
Std Dev 32.74

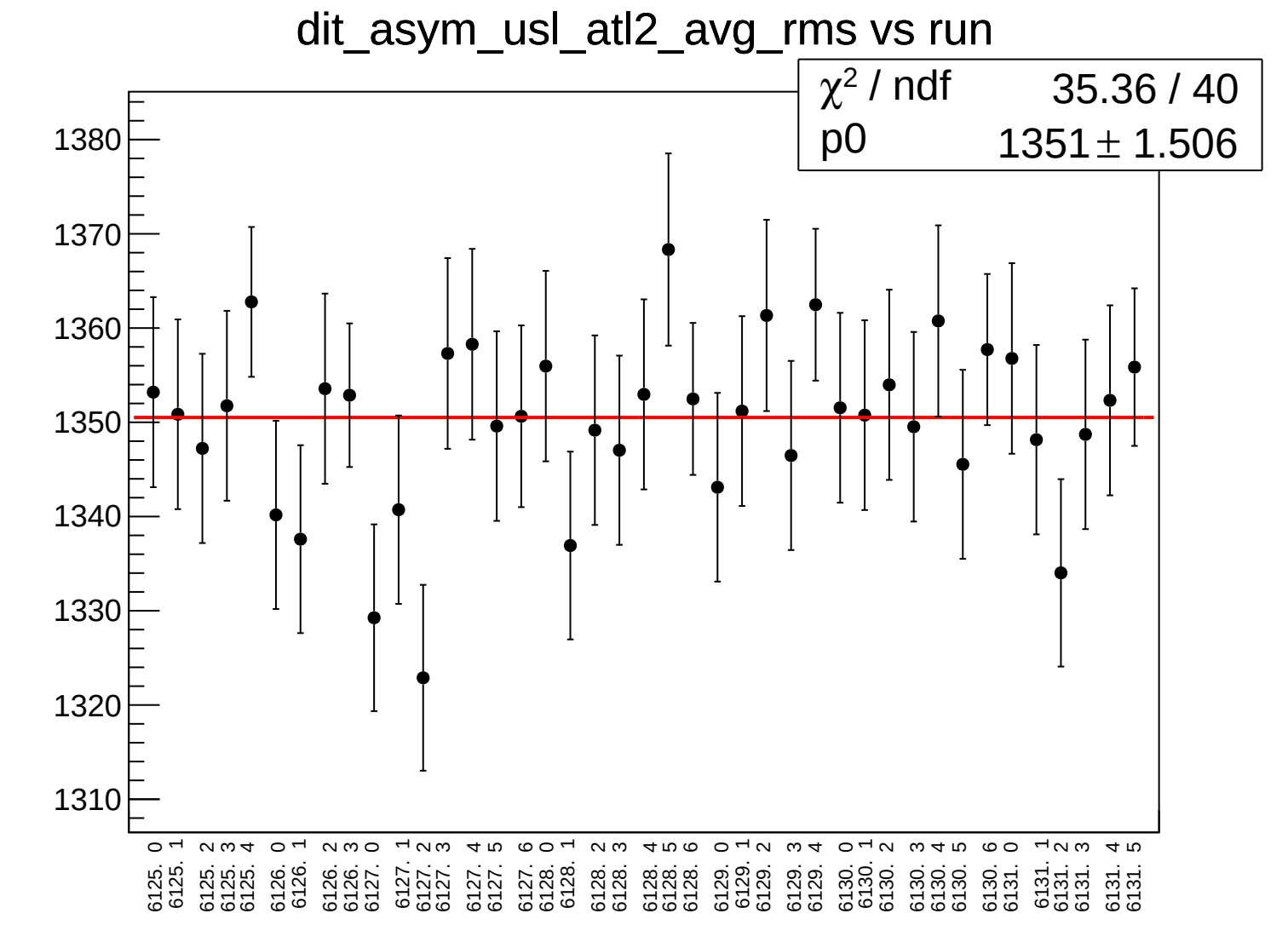

pull1D
Entries 41
Mean −0.006495
Std Dev 0.8849

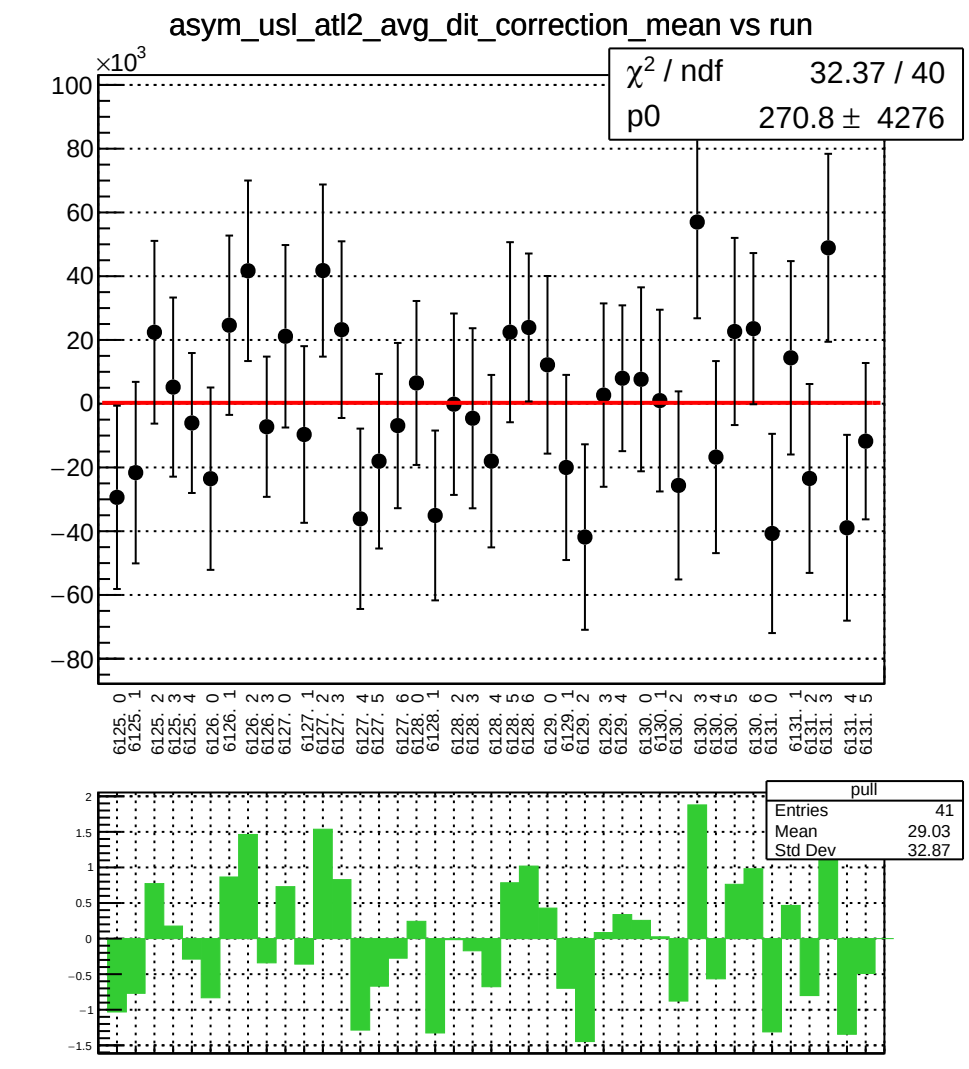

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1080 / 40
p0 2671 ± 2.981
3000
2900
2800
2700
2600
2500
2400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

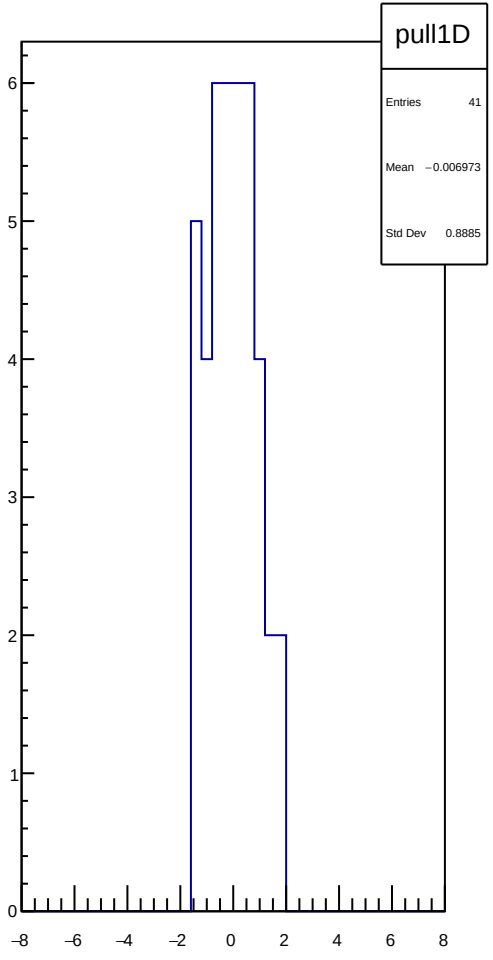

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 36.07 / 40
p0 4900 ± 2130
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

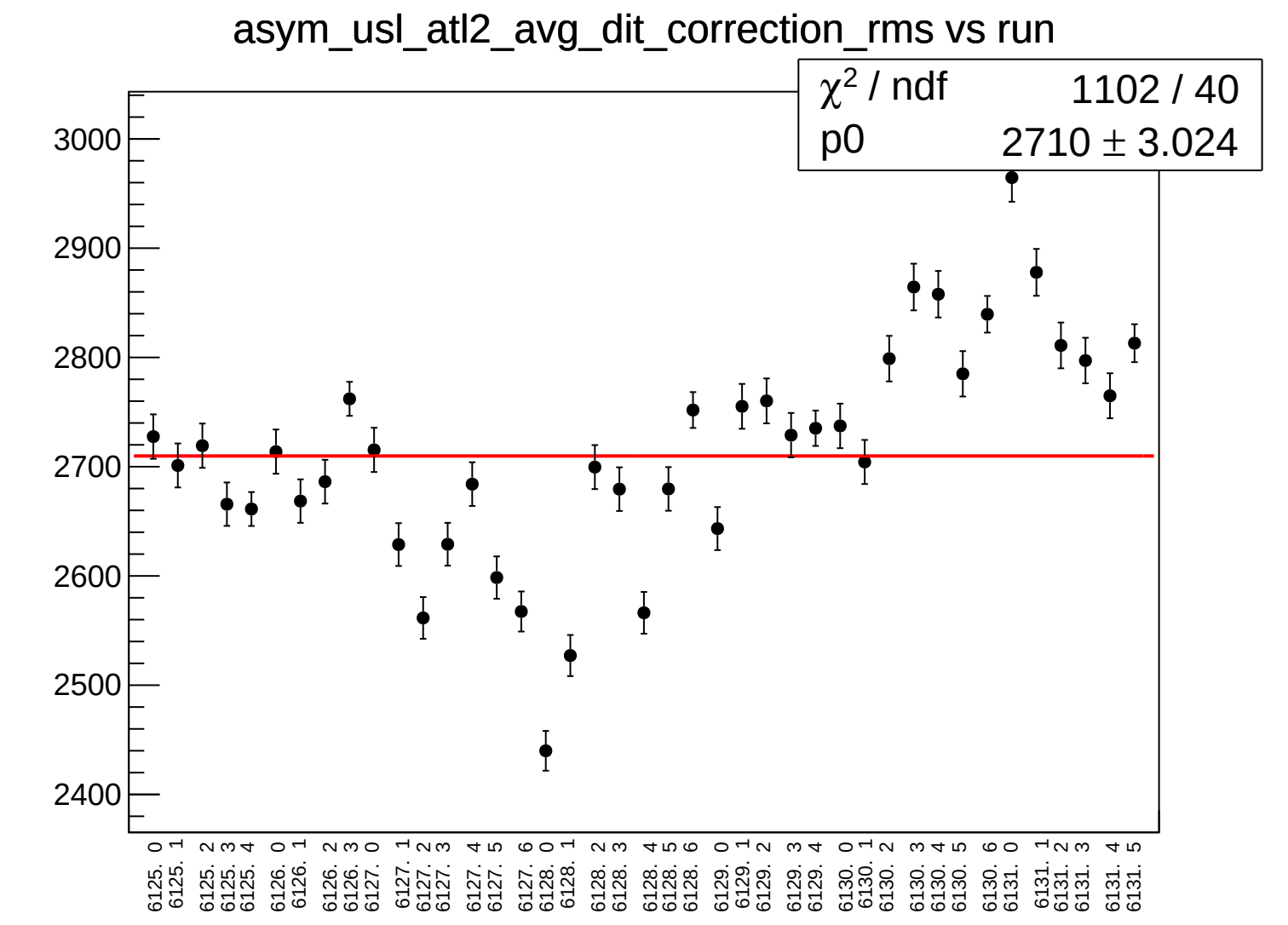

pull
Entries 41
Mean −0.1761
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

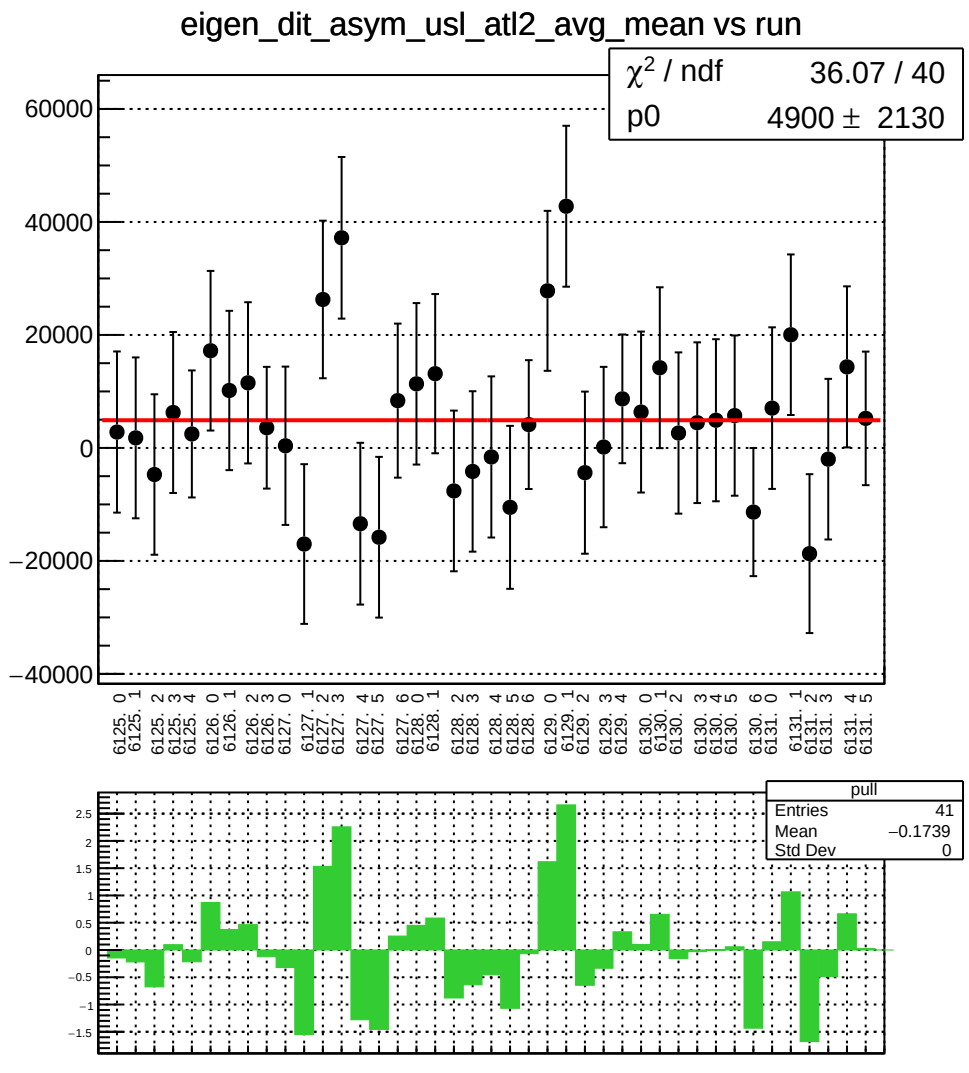

pull1D
Entries 41
Mean 0.008632
Std Dev 0.938
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

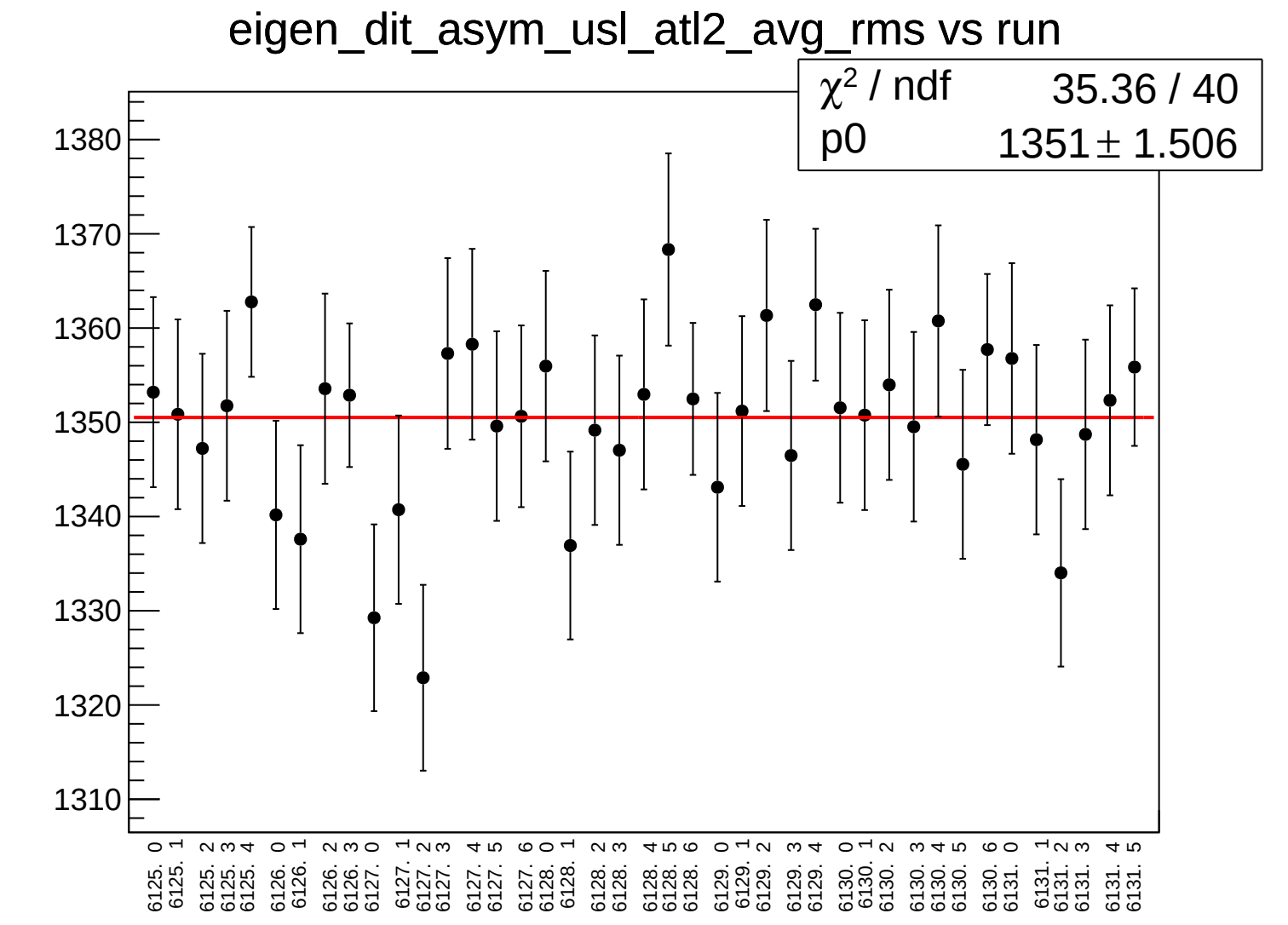

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 35.36 / 40
p0 1351 ± 1.506
1380
1370
1360
1350
1340
1330
1320
1310
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

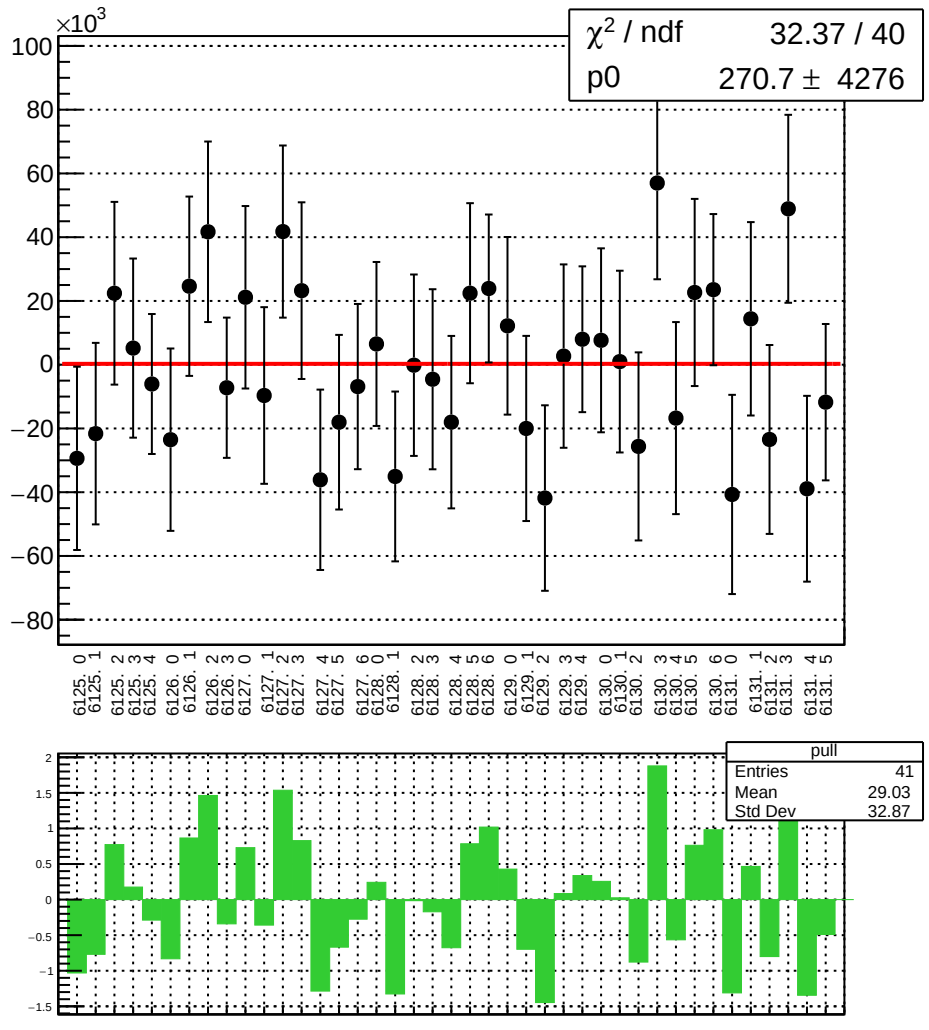

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 32.37 / 40
p0 270.8 ± 4276
100
80
60
40
20
0
−20
−40
−60
−80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 29.03
Std Dev 32.87
2
1.5
1
0.5
0
−0.5
−1
−1.5

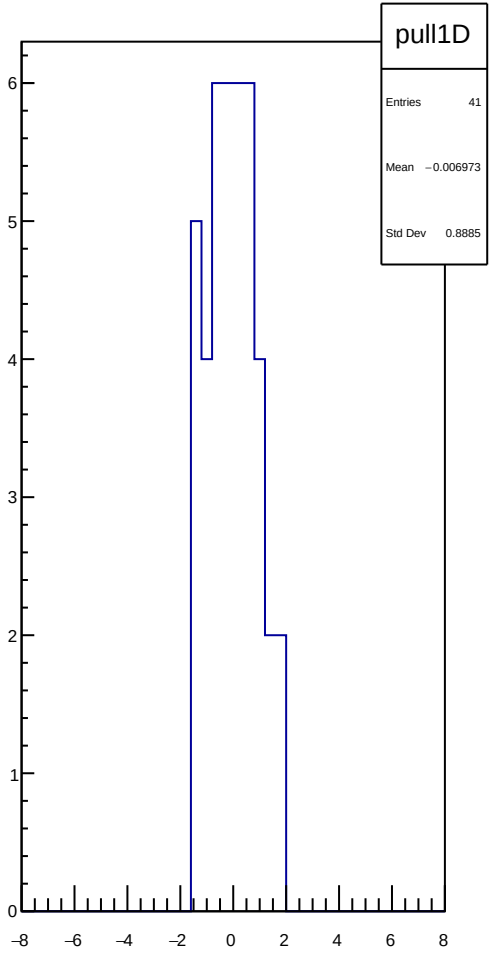

pull1D
Entries 41
Mean −0.006973
Std Dev 0.8885
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

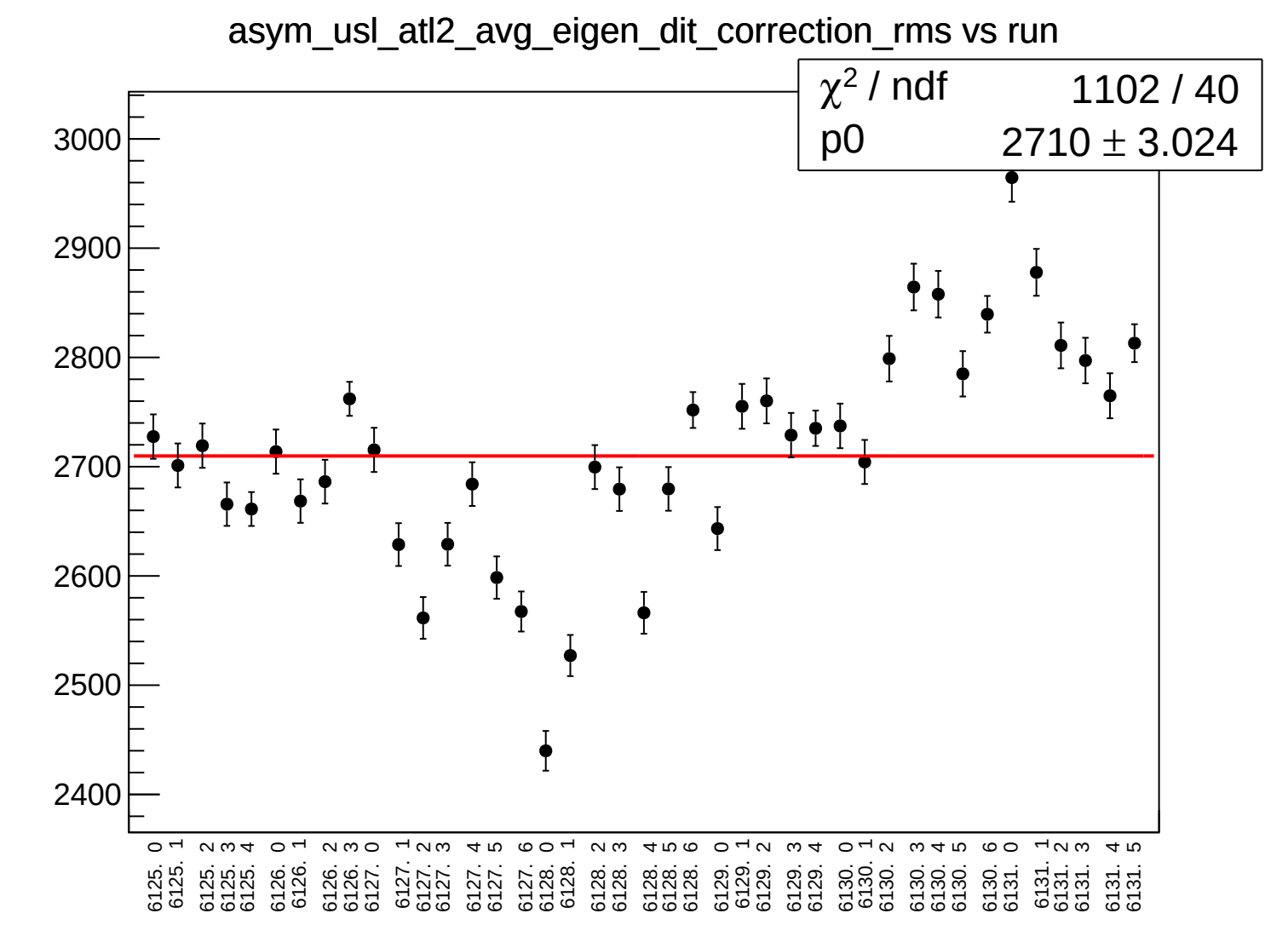

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 1102 / 40
p0 2710 ± 3.024
3000
2900
2800
2700
2600
2500
2400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

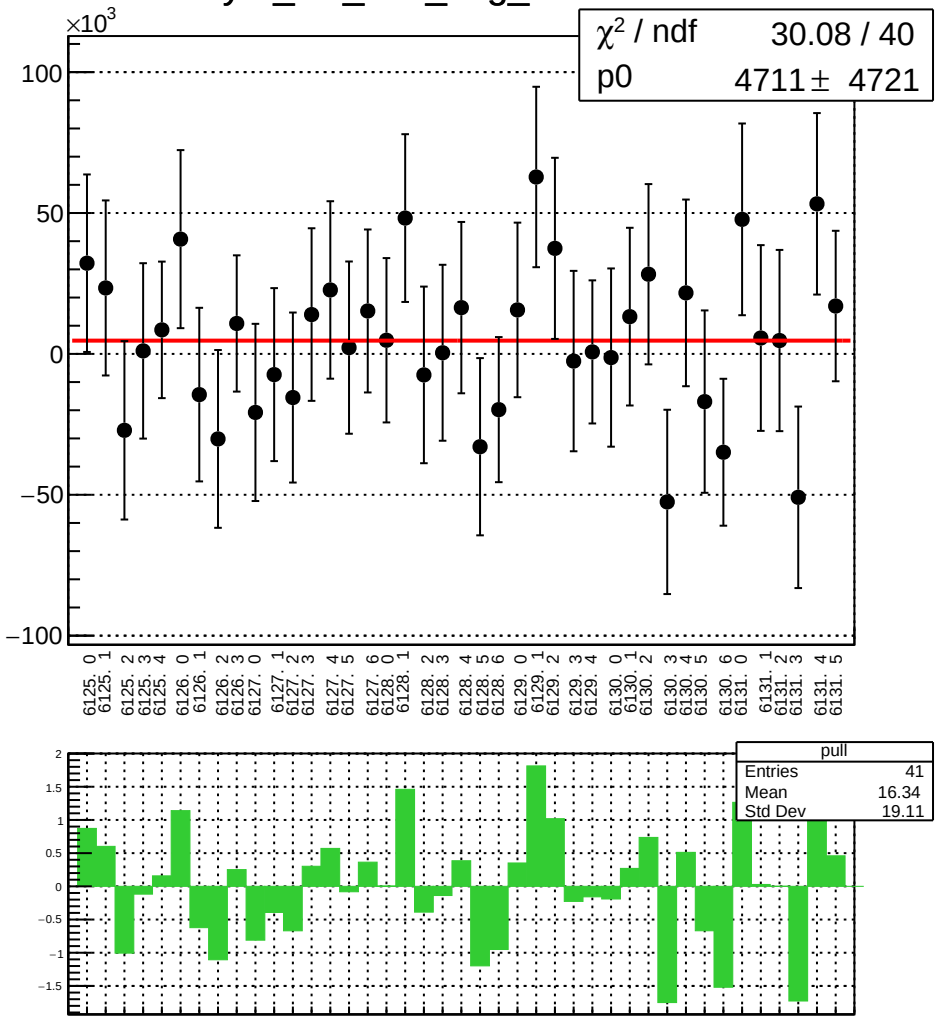

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 36.07 / 40
p0 4900 ± 2130
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −0.1739
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.008632
Std Dev 0.938
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

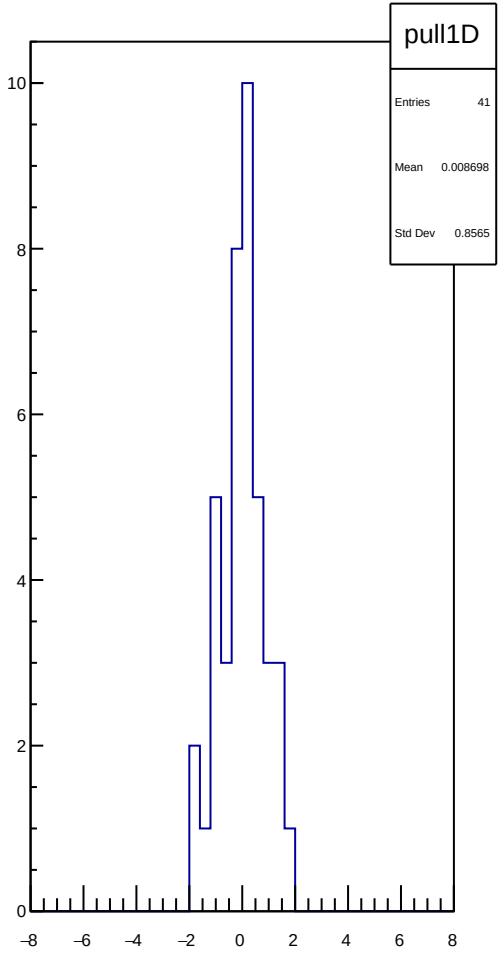

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 35.36 / 40
p0 1351 ± 1.506
1380
1370
1360
1350
1340
1330
1320
1310
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

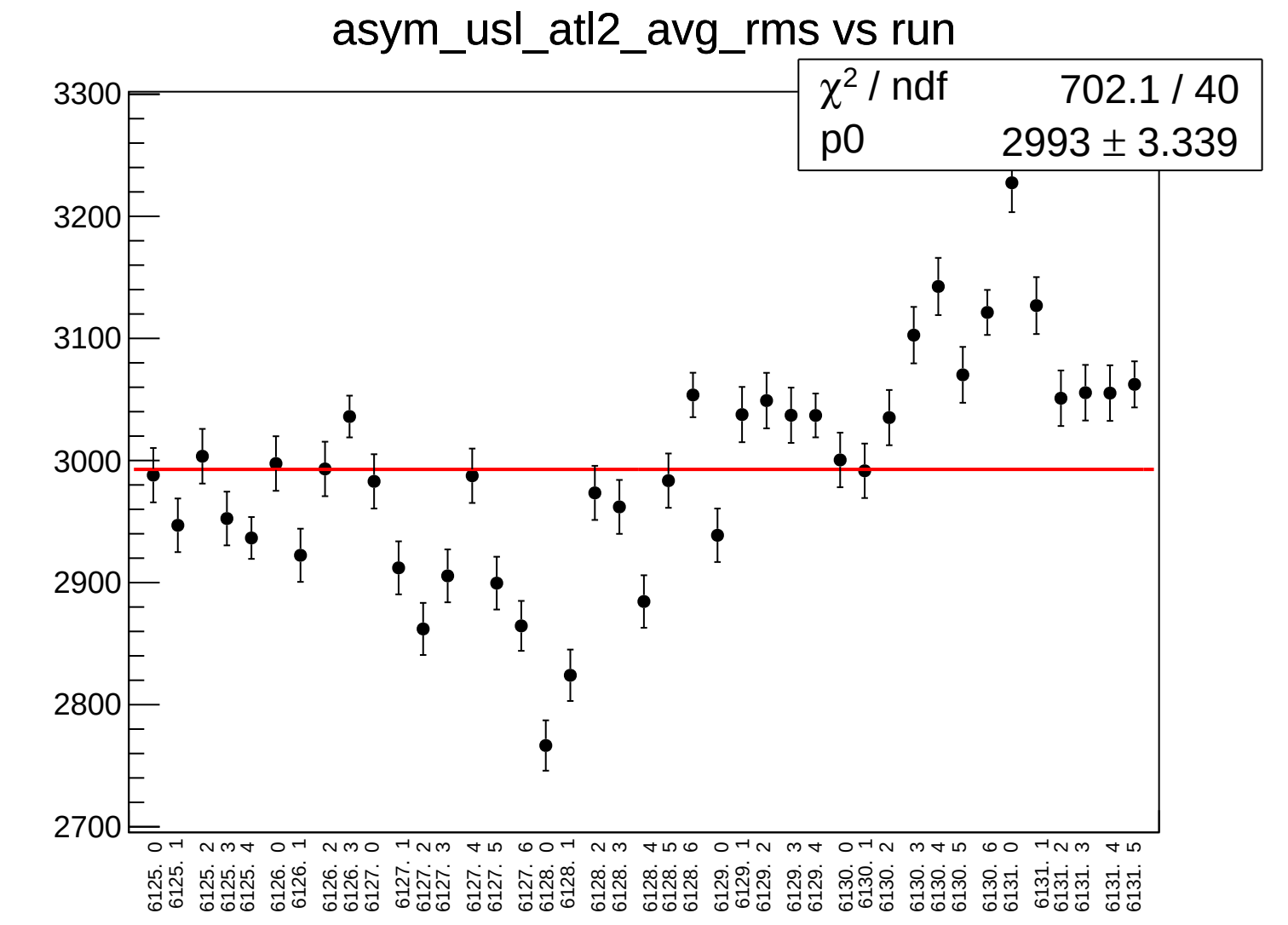

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 32.37 / 40
p0 270.7 ± 4276
pull
Entries 41
Mean 29.03
Std Dev 32.87

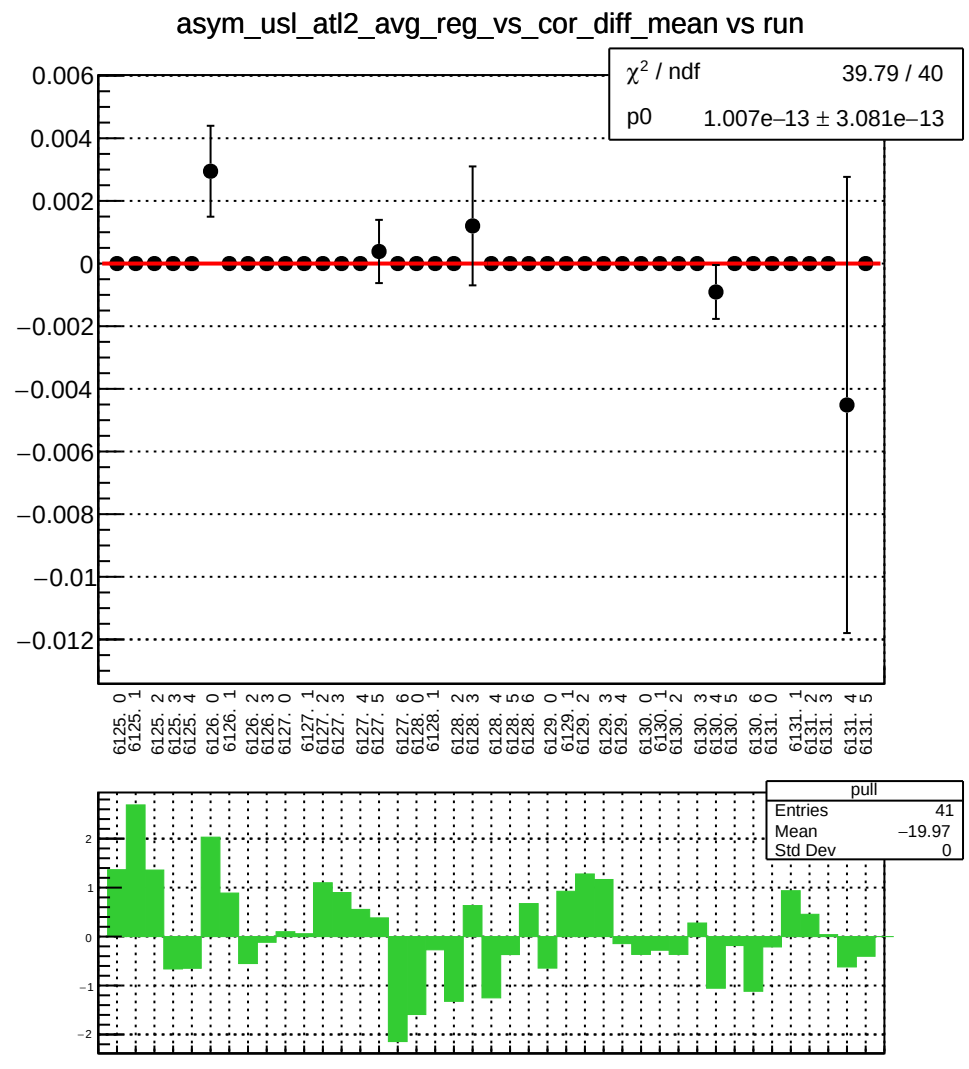

pull1D
Entries 41
Mean −0.006973
Std Dev 0.8885

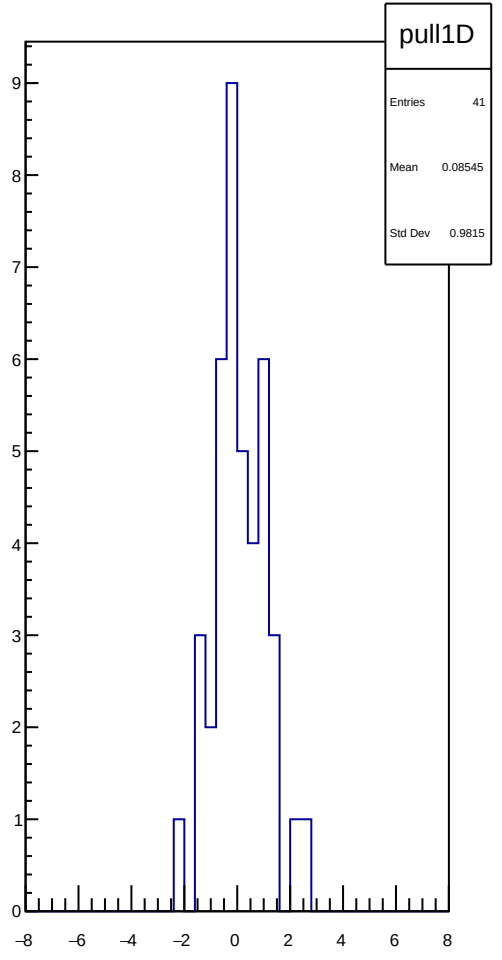

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1102 / 40
p0 2710 ± 3.024
3000
2900
2800
2700
2600
2500
2400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

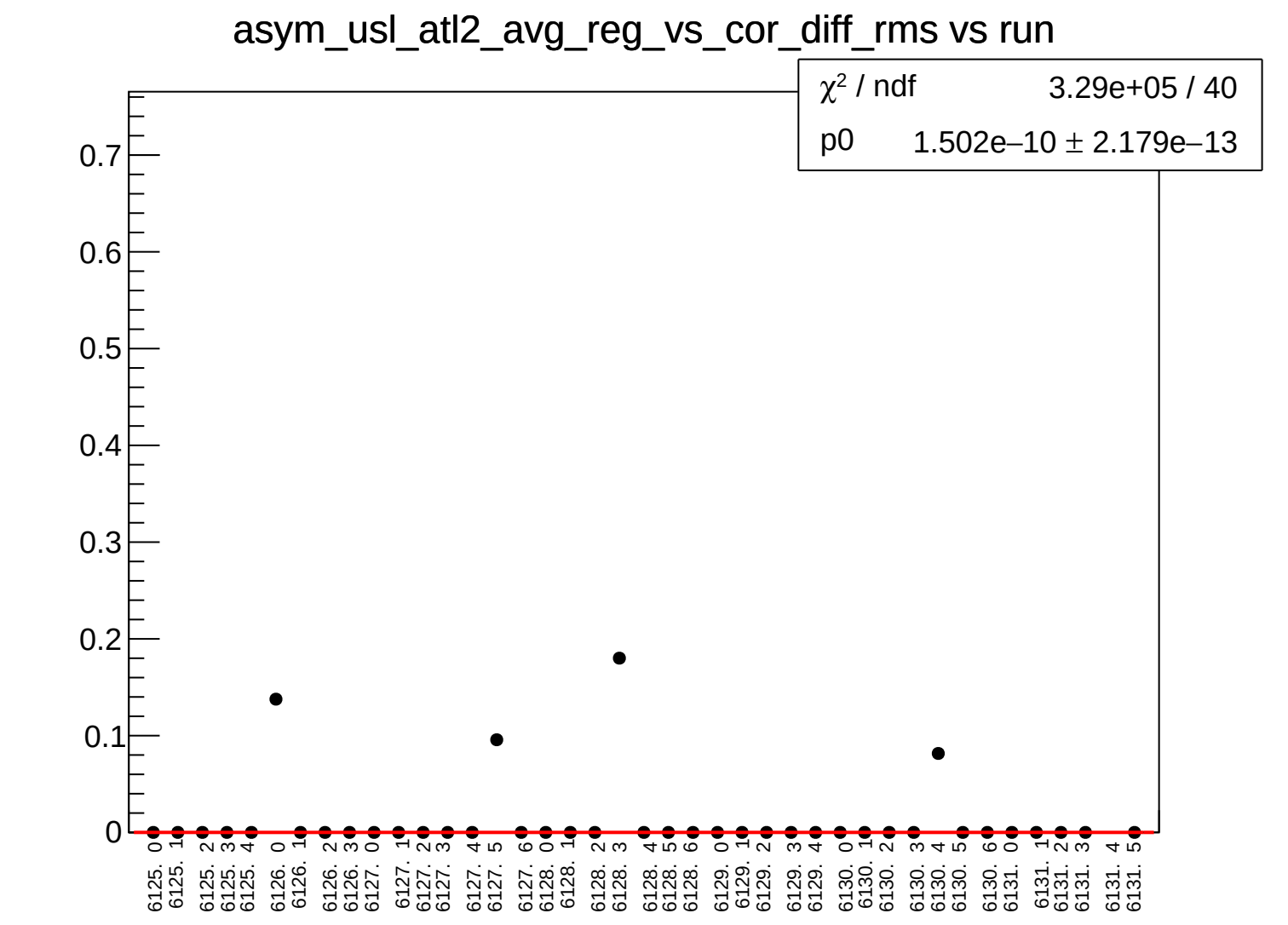

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 30.08 / 40
p0 4711 ± 4721
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 16.34
Std Dev 19.11
2
1.5
1
0.5
0
−0.5
−1
−1.5

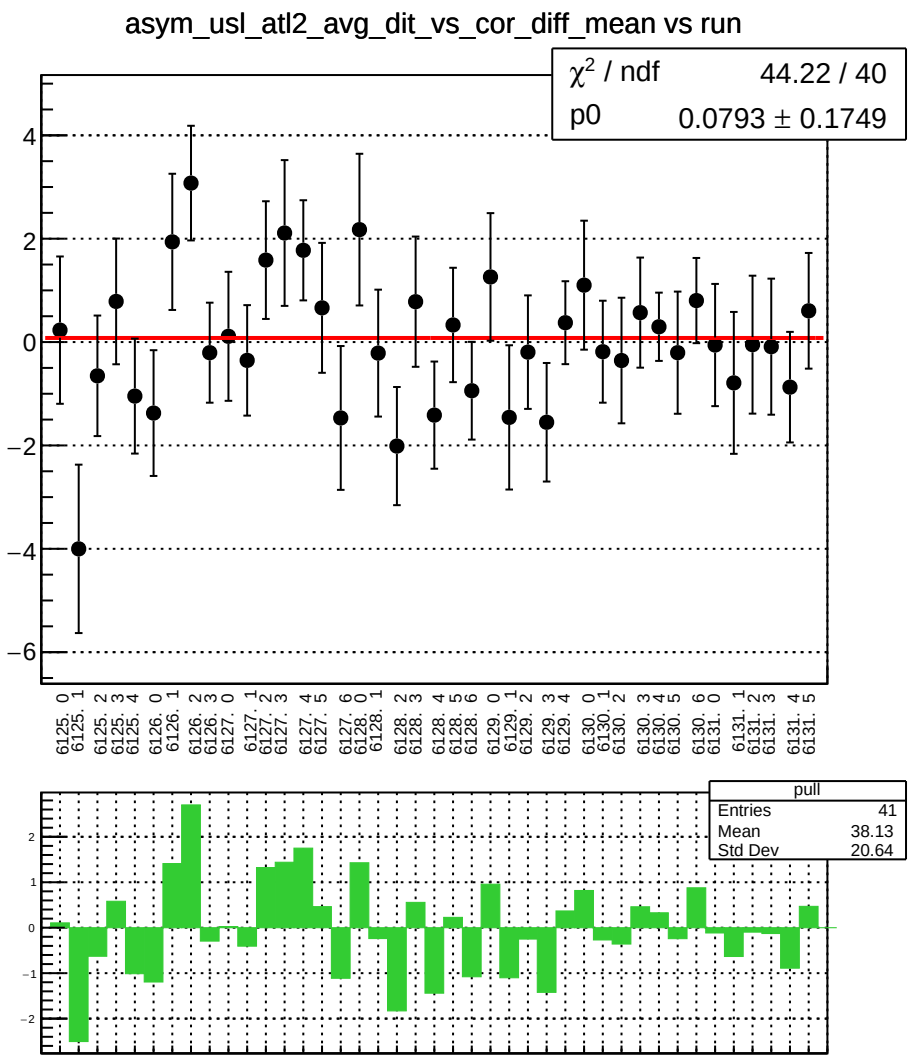

pull1D
Entries 41
Mean 0.008698
Std Dev 0.8565
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

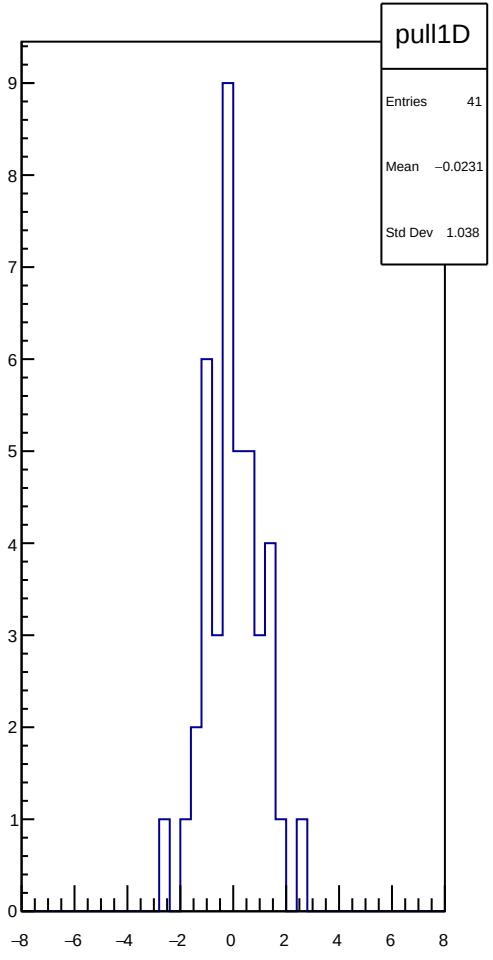

asym_usl_atl2_avg_rms vs run
χ² / ndf 702.1 / 40
p0 2993 ± 3.339
3300
3200
3100
3000
2900
2800
2700
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

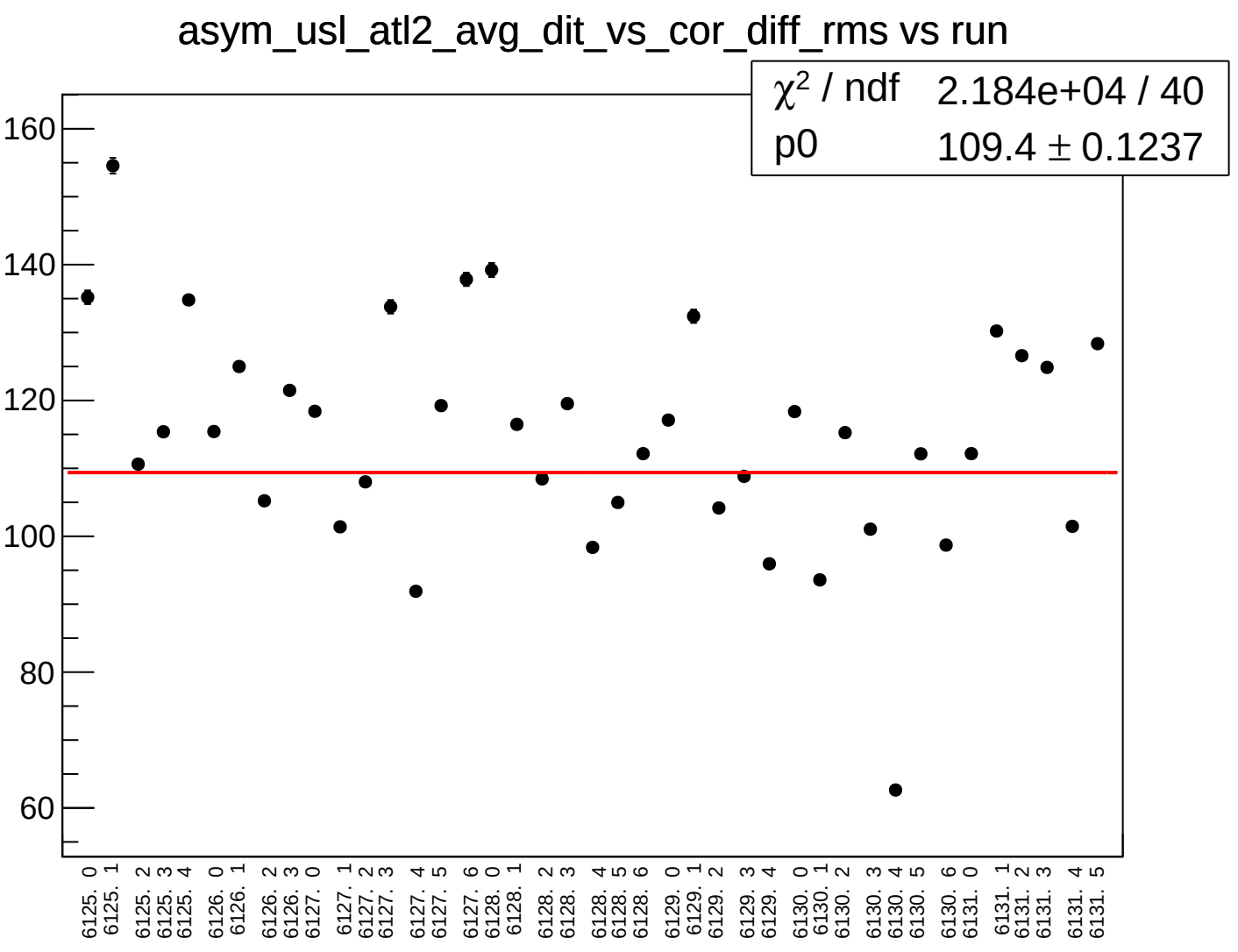

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 39.79 / 40
p0 1.007e−13 ± 3.081e−13
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
−0.012
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −19.97
Std Dev 0
2
1
0
−1
−2

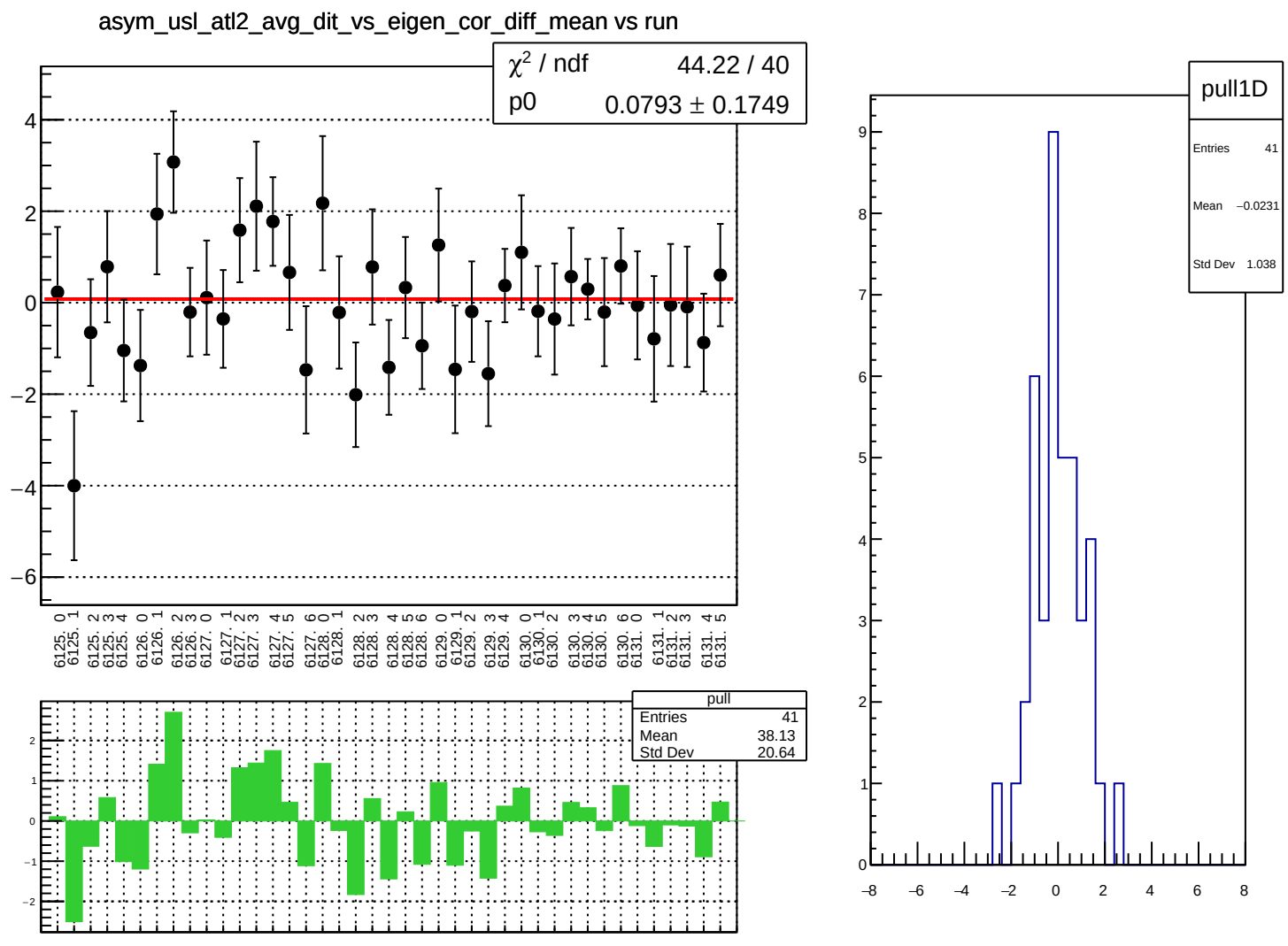

pull1D
Entries 41
Mean 0.08545
Std Dev 0.9815
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

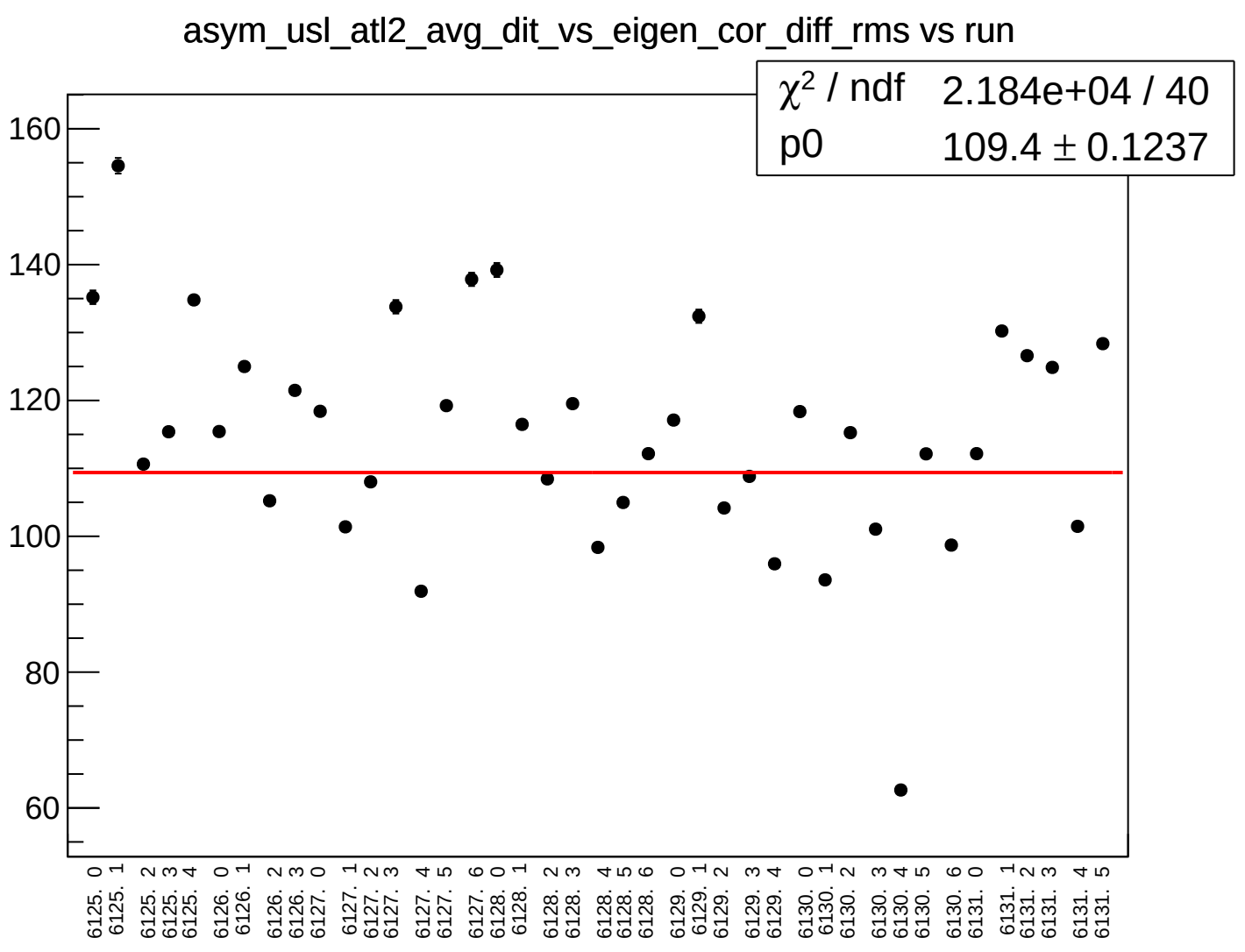

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.29e+05 / 40
p0 1.502e−10 ± 2.179e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

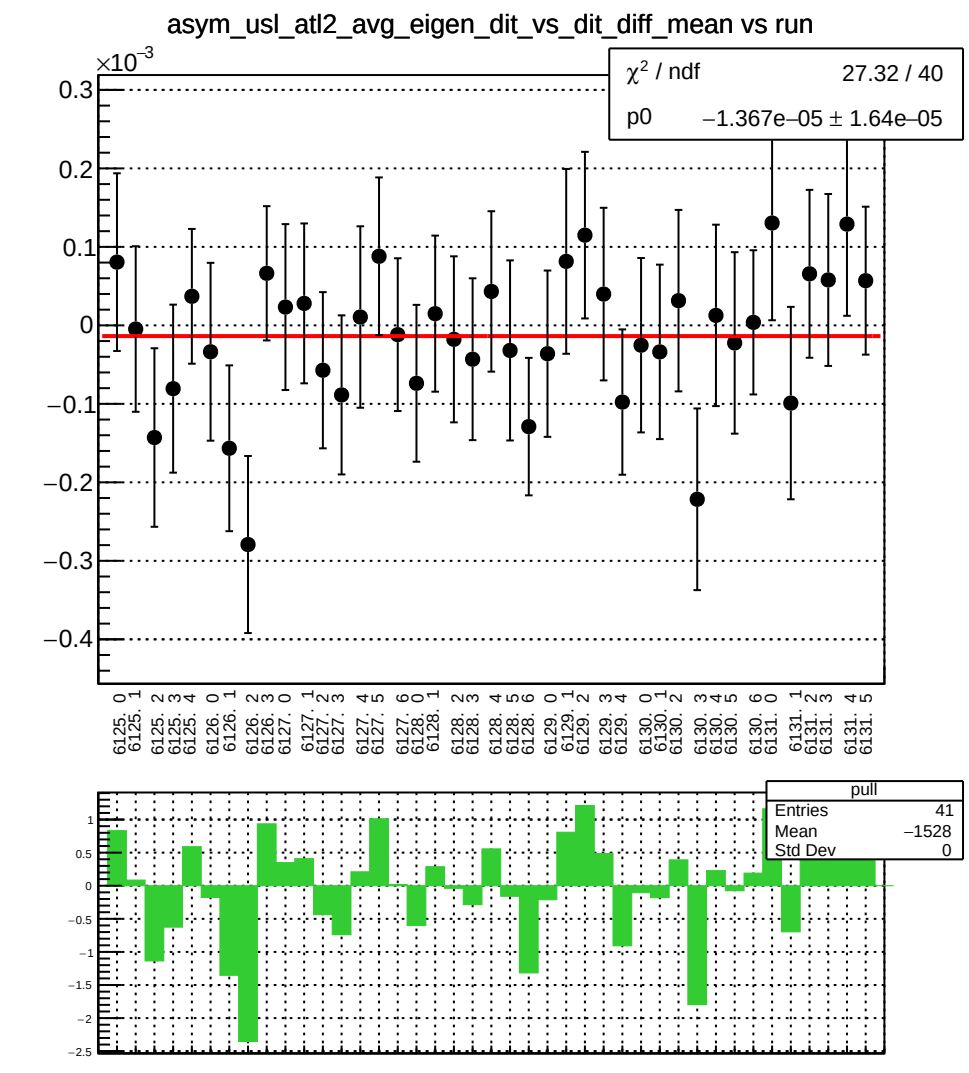

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 44.22 / 40
p0 0.0793 ± 0.1749
pull
Entries 41
Mean 38.13
Std Dev 20.64

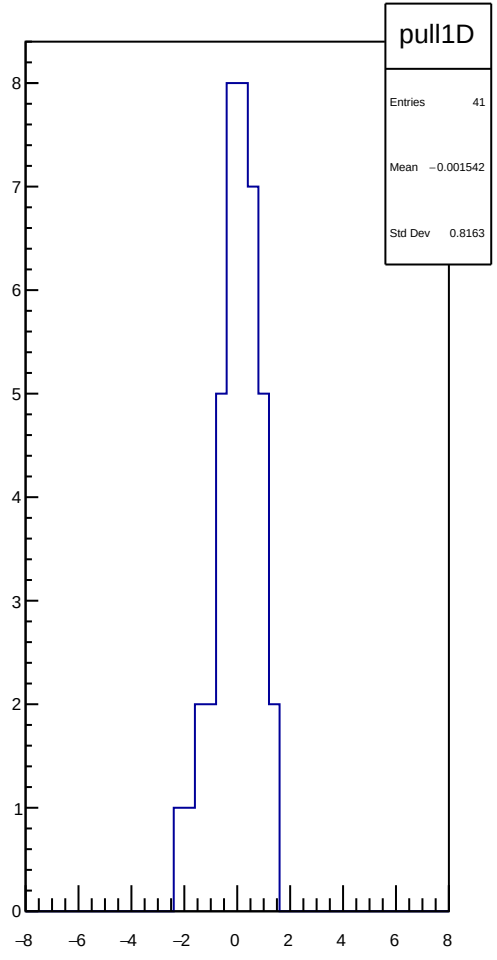

pull1D
Entries 41
Mean −0.0231
Std Dev 1.038

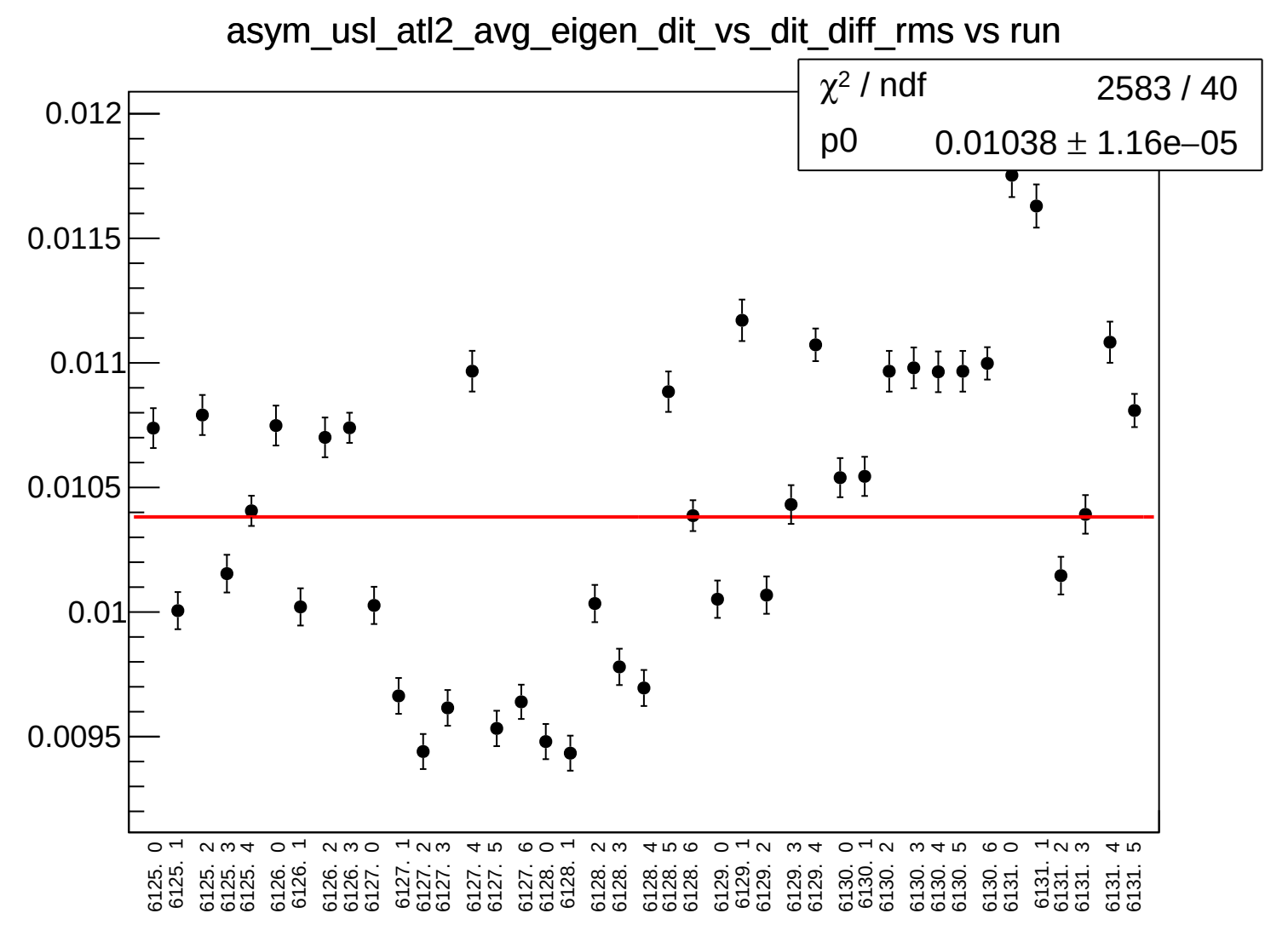

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.184e+04 / 40
p0 109.4 ± 0.1237
160
140
120
100
80
60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

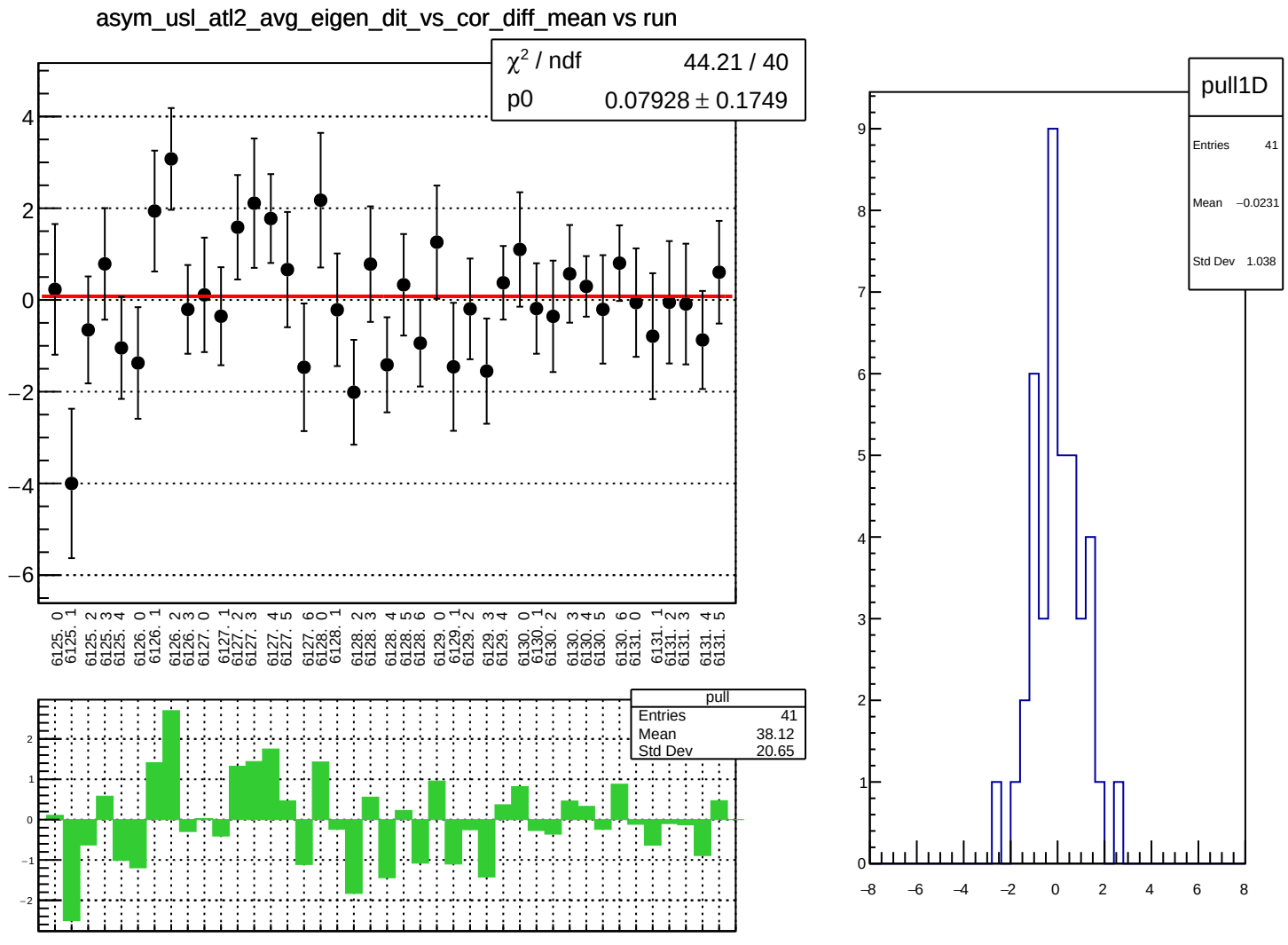

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.22 / 40
p0 0.0793 ± 0.1749
pull
Entries 41
Mean 38.13
Std Dev 20.64
pull1D
Entries 41
Mean −0.0231
Std Dev 1.038

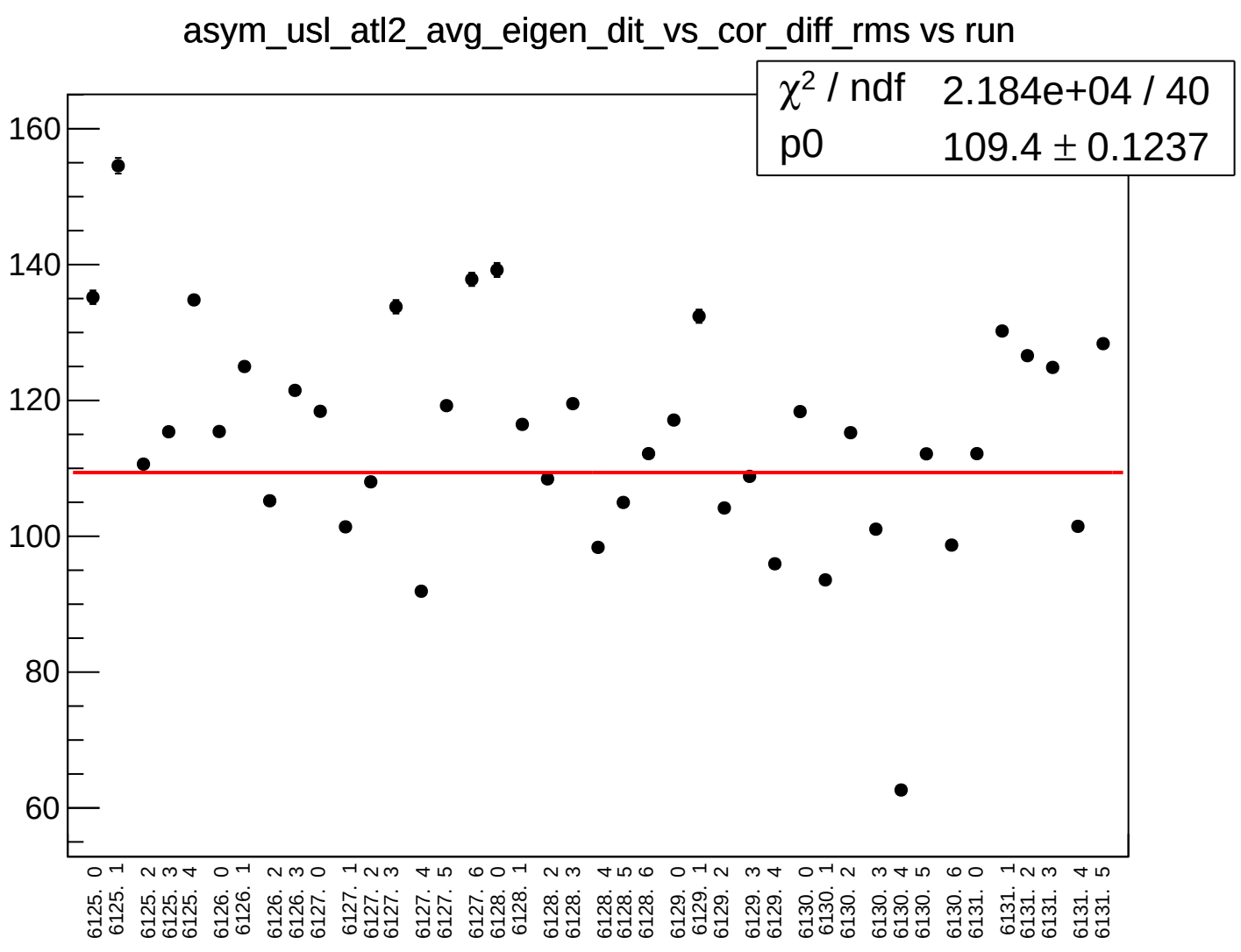

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.184e+04 / 40
p0 109.4 ± 0.1237
160
140
120
100
80
60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

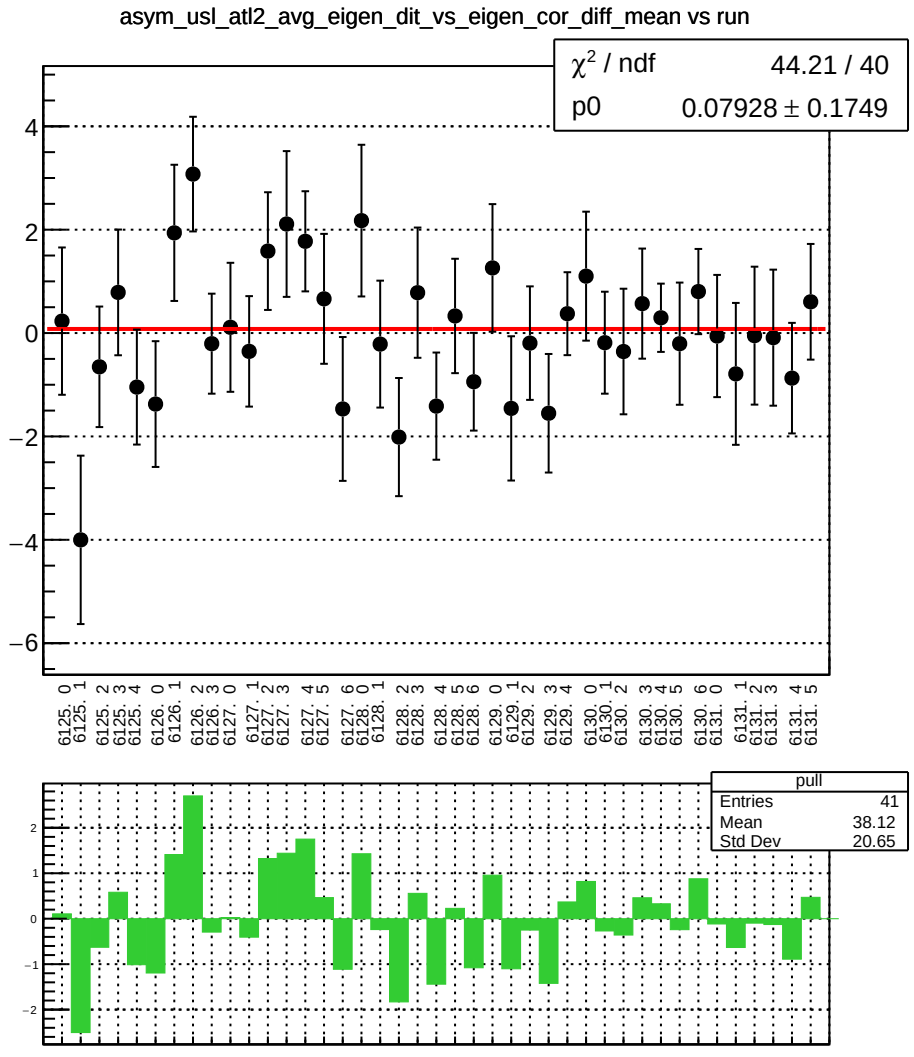

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 27.32 / 40
p0 −1.367e−05 ± 1.64e−05
pull
Entries 41
Mean −1528
Std Dev 0

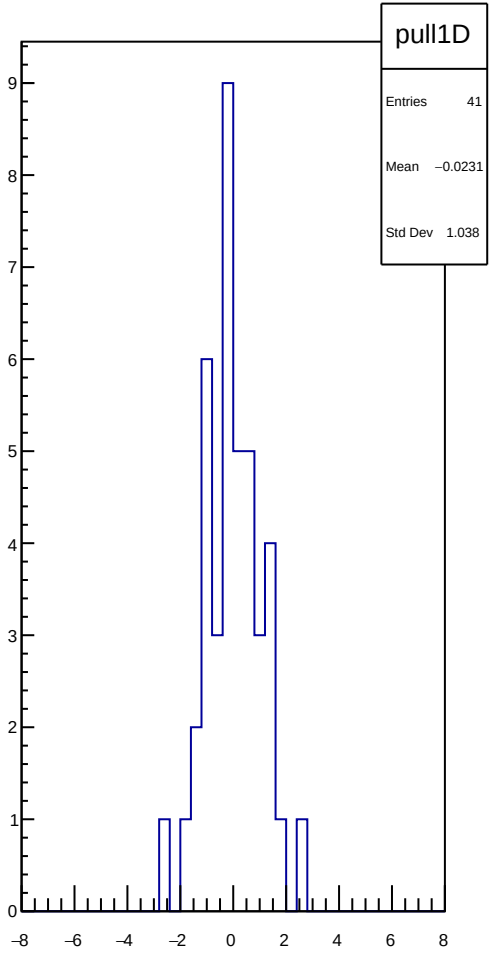

pull1D
Entries 41
Mean −0.001542
Std Dev 0.8163

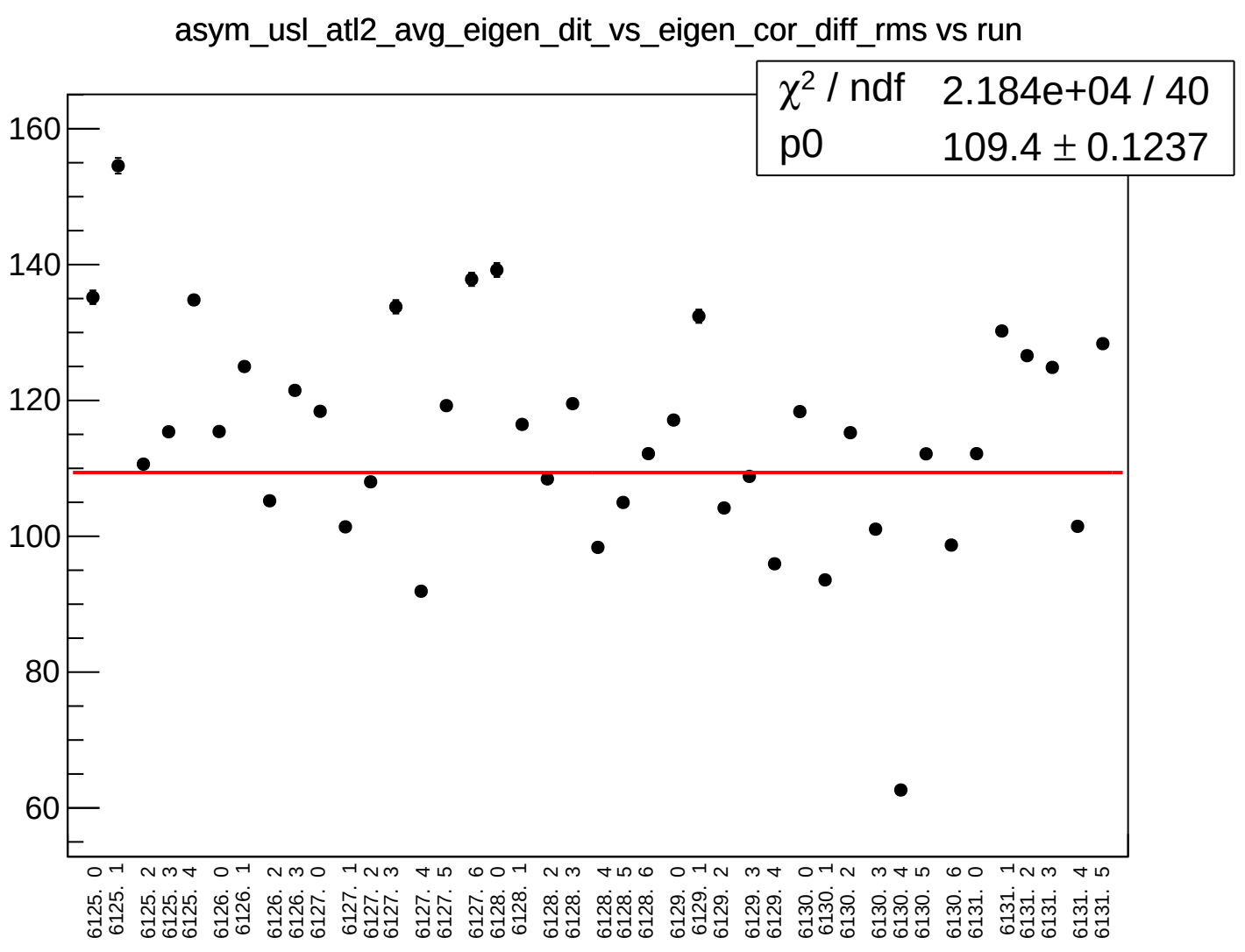

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2583 / 40
p0 0.01038 ± 1.16e−05
0.012
0.0115
0.011
0.0105
0.01
0.0095
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

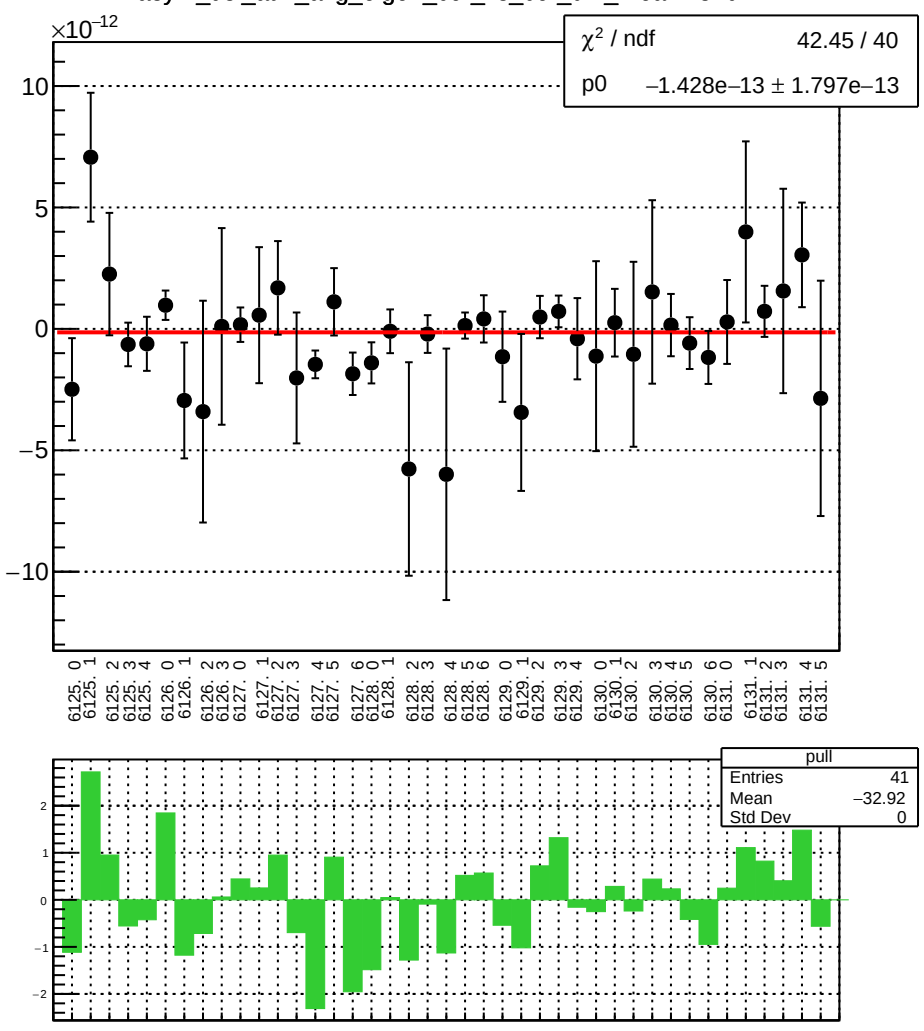

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 44.21 / 40
p0 0.07928 ± 0.1749
pull
Entries 41
Mean 38.12
Std Dev 20.65
pull1D
Entries 41
Mean −0.0231
Std Dev 1.038

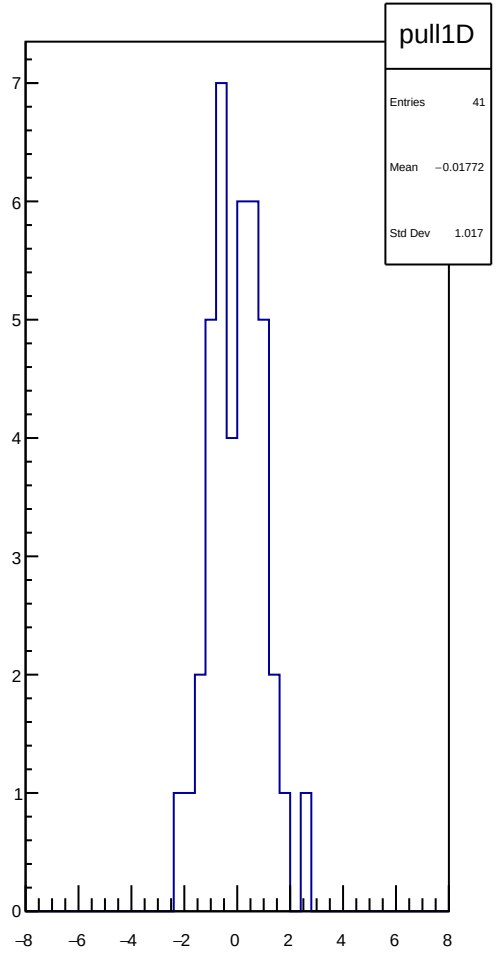

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.184e+04 / 40
p0 109.4 ± 0.1237
160
140
120
100
80
60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

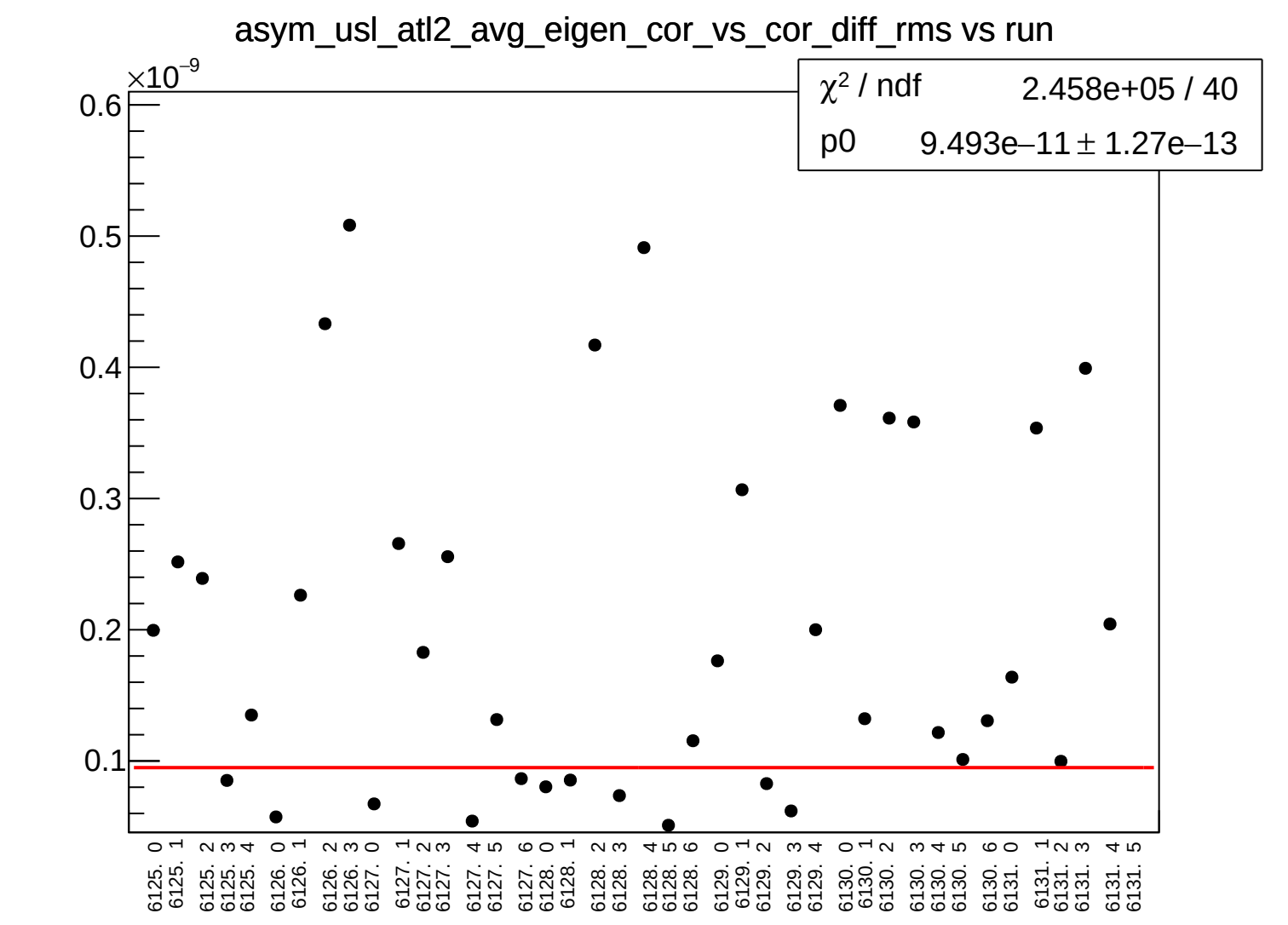

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.21 / 40
p0 0.07928 ± 0.1749
pull
Entries 41
Mean 38.12
Std Dev 20.65

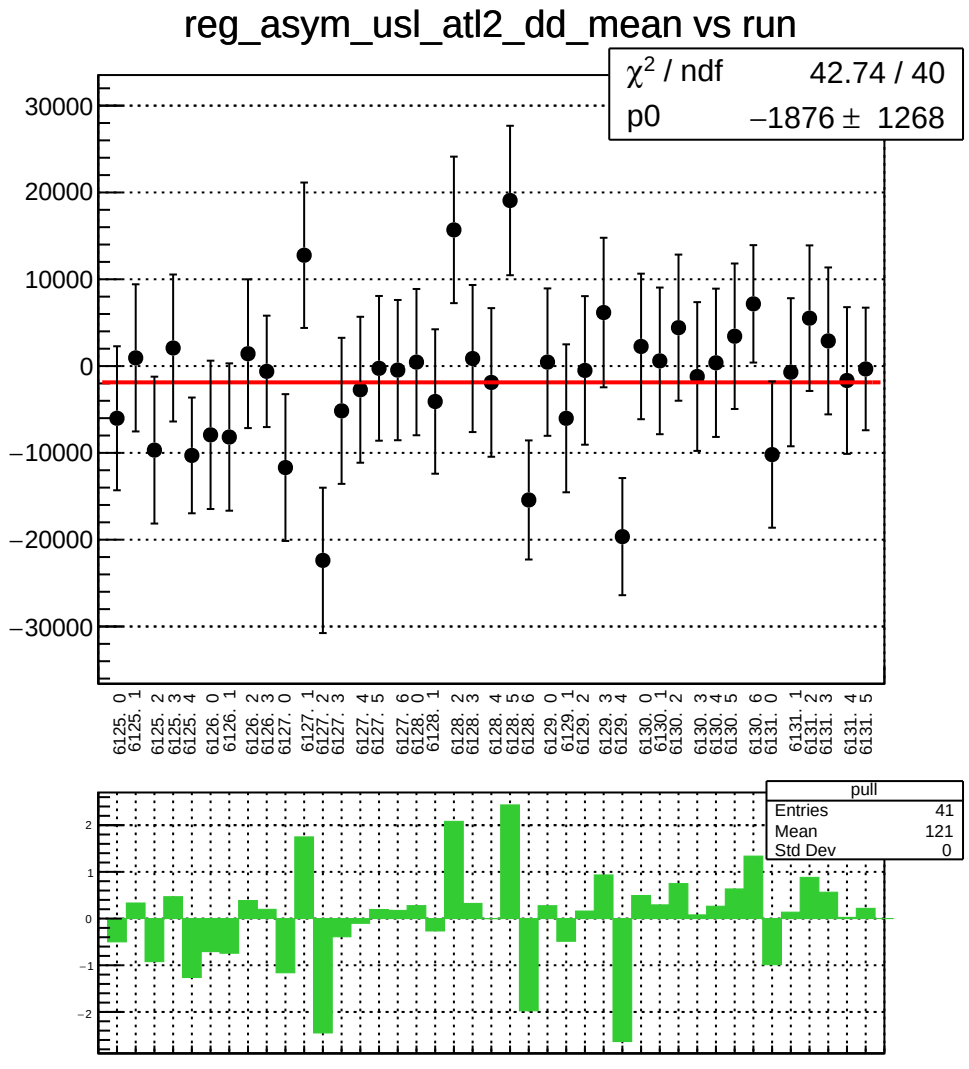

pull1D
Entries 41
Mean −0.0231
Std Dev 1.038

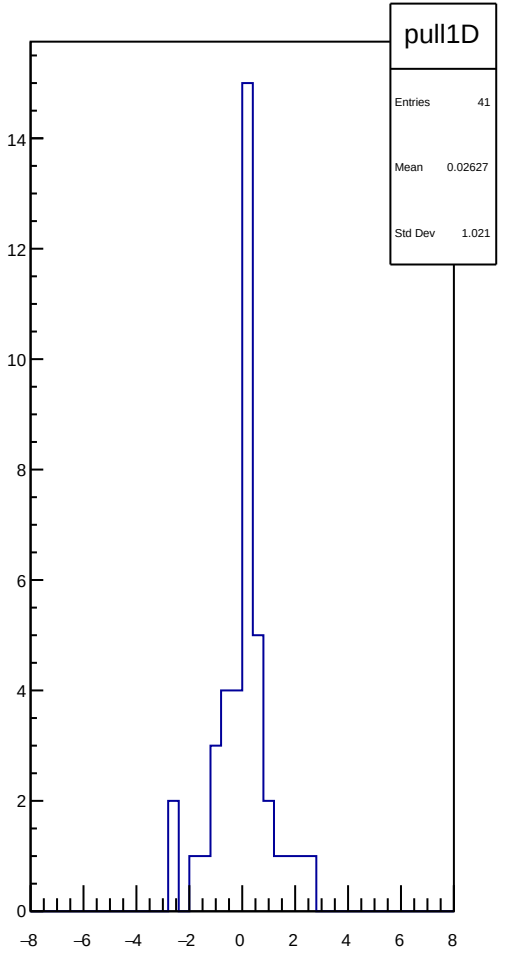

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.184e+04 / 40
p0 109.4 ± 0.1237
160
140
120
100
80
60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

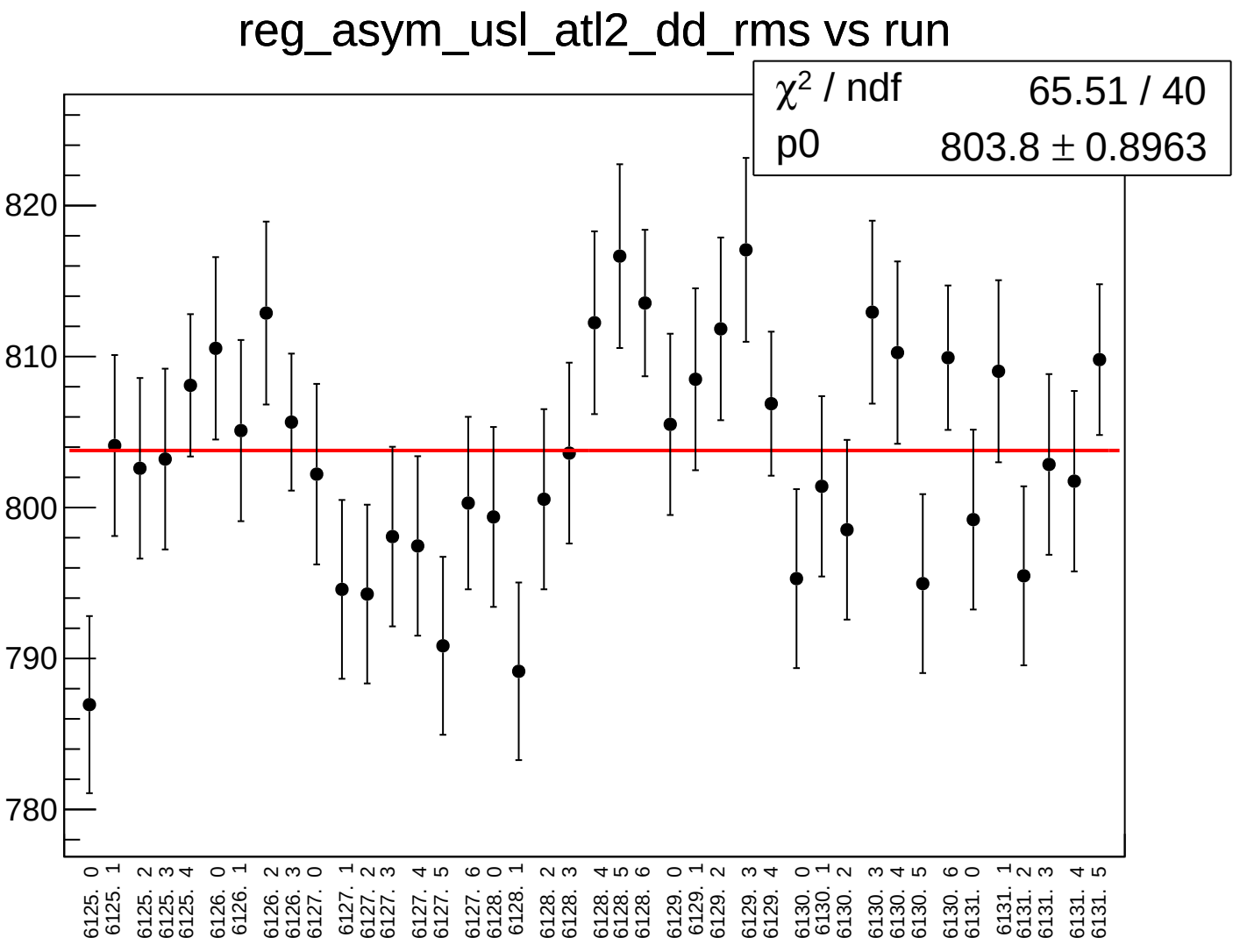

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 42.45 / 40
p0 −1.428e−13 ± 1.797e−13
10
5
0
−5
−10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −32.92
Std Dev 0
2
1
0
−1
−2

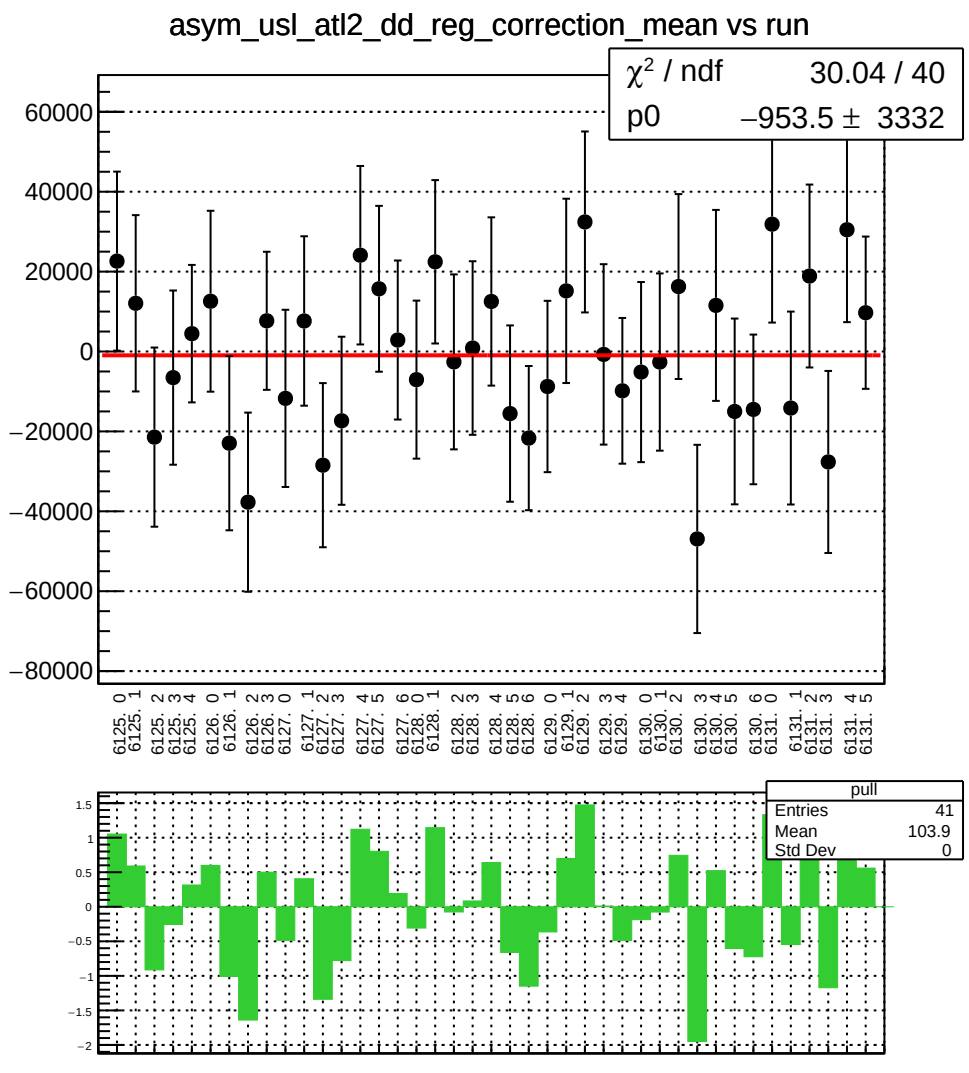

pull1D
Entries 41
Mean −0.01772
Std Dev 1.017
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

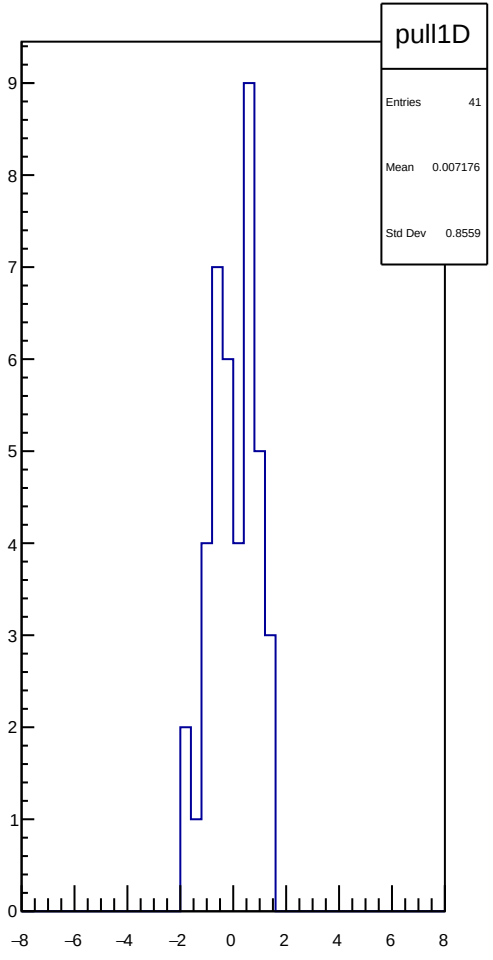

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.458e+05 / 40
p0 9.493e−11 ± 1.27e−13
0.6
0.5
0.4
0.3
0.2
0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

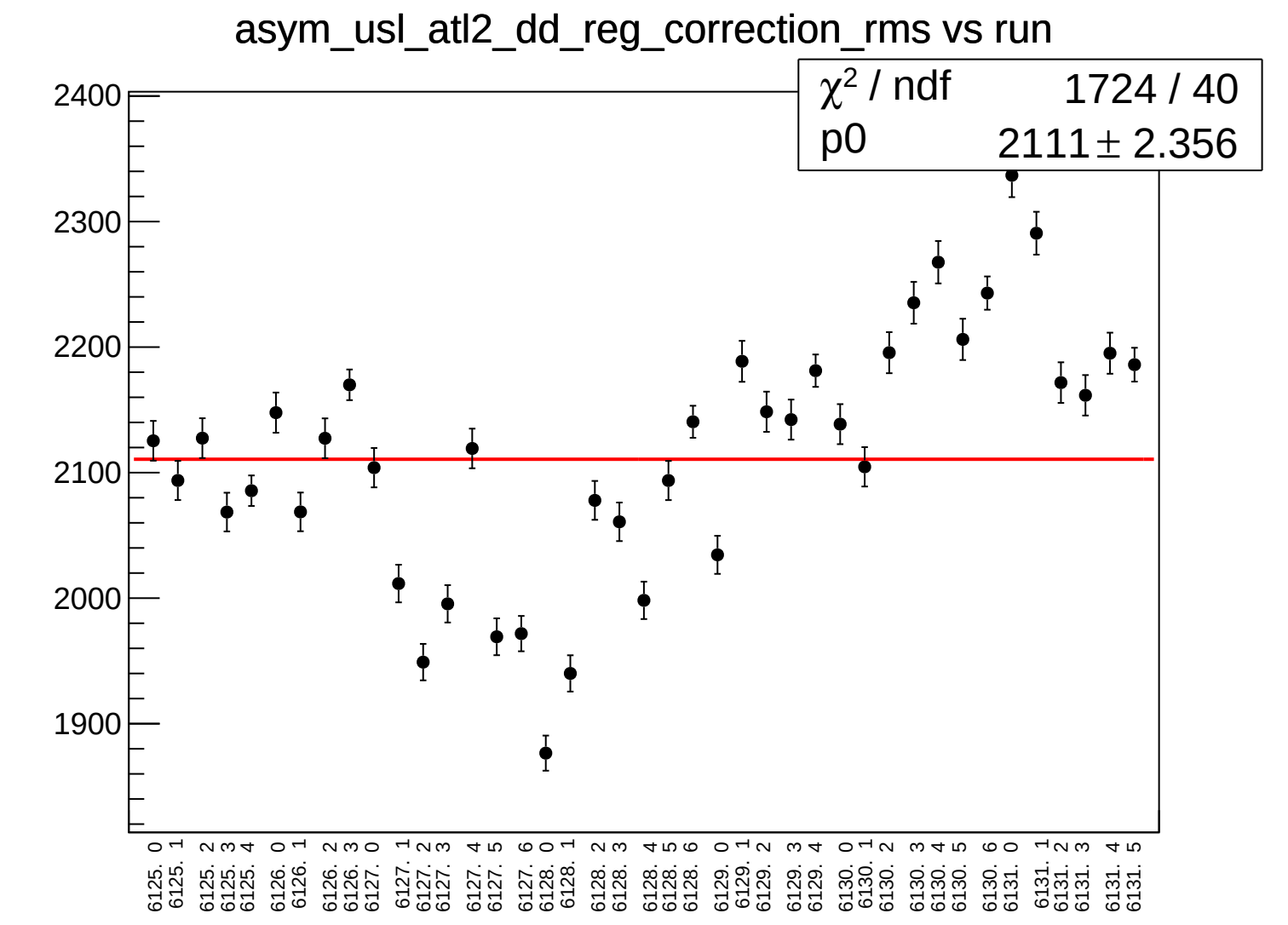

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 42.74 / 40
p0 −1876 ± 1268
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 121
Std Dev 0
2
1
0
−1
−2

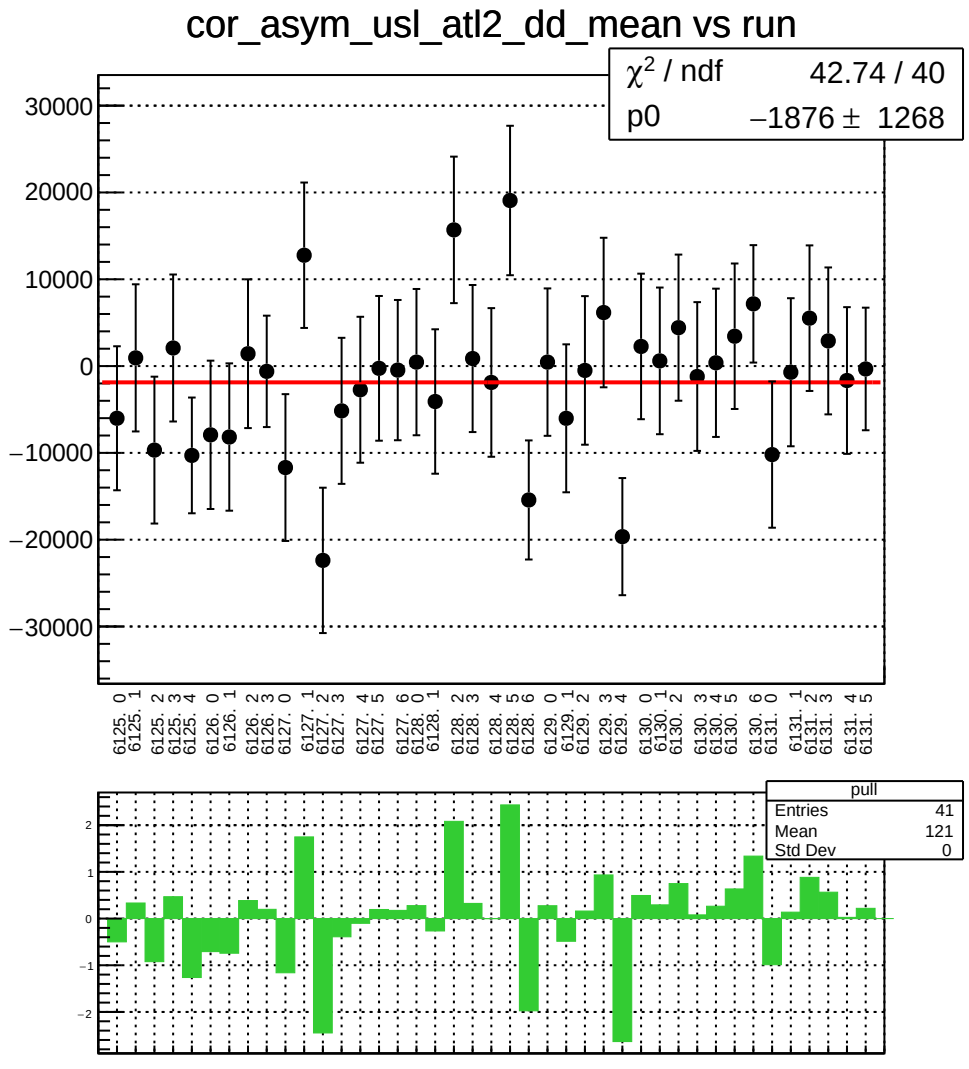

pull1D
Entries 41
Mean 0.02627
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

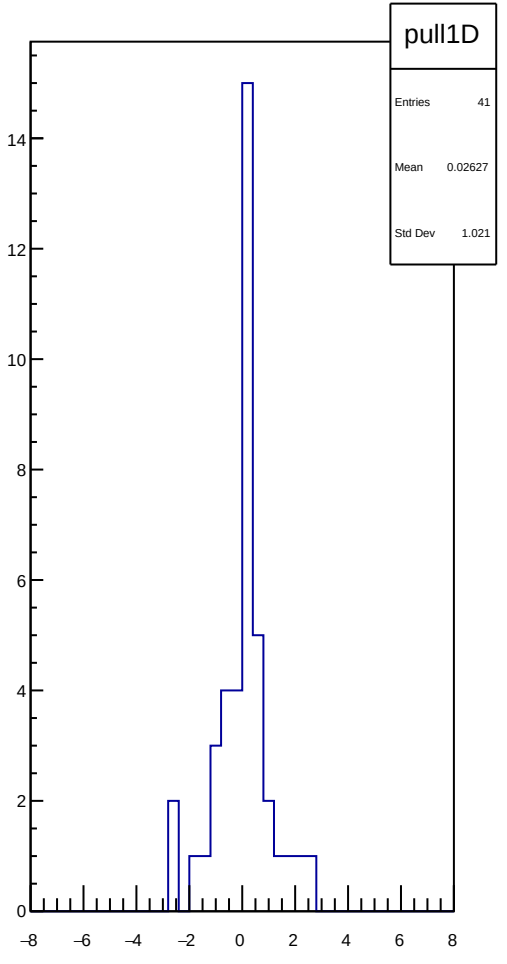

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 65.51 / 40
p0 803.8 ± 0.8963
820
810
800
790
780
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

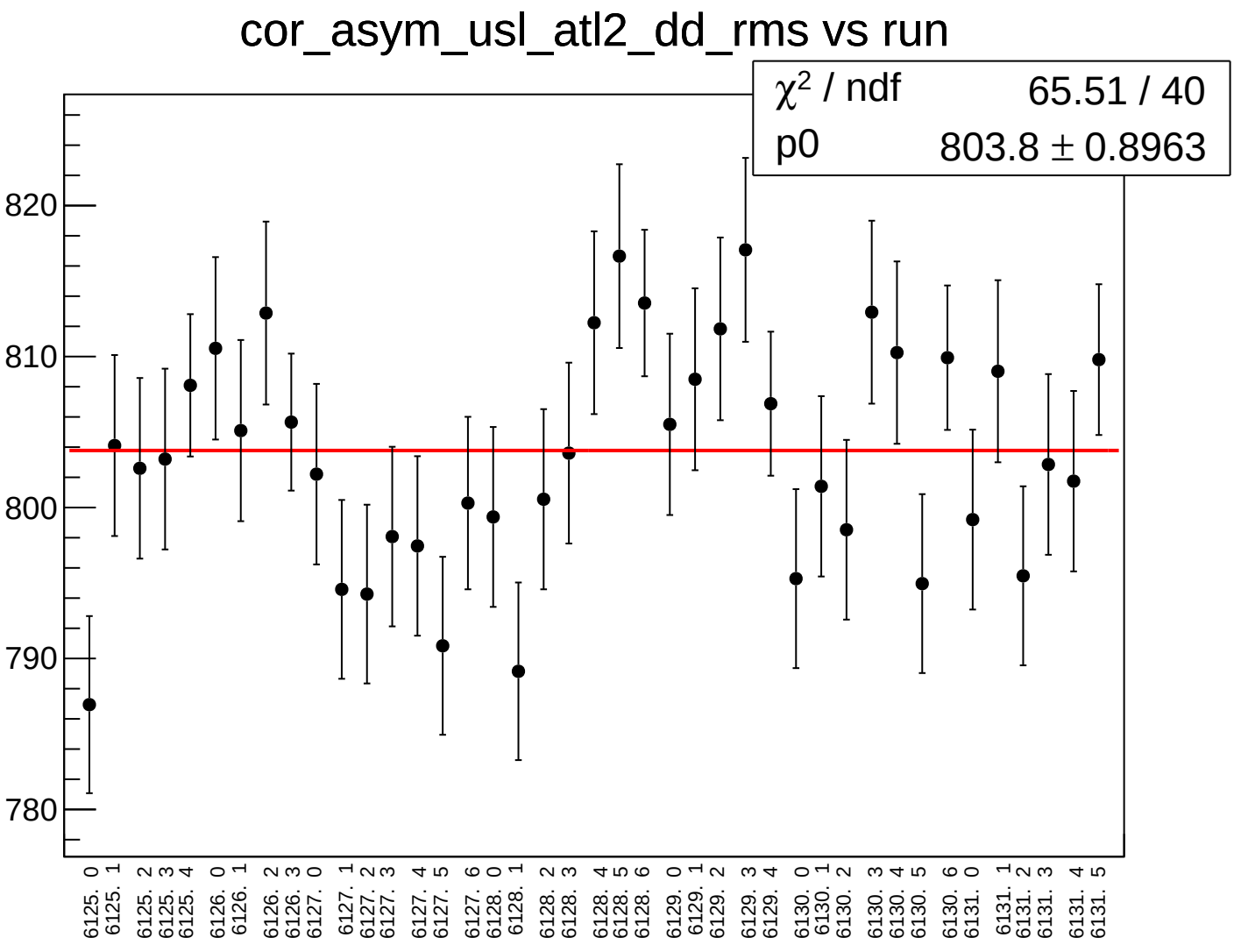

asym_usl_atl2_dd_reg_correction_mean vs run
χ² / ndf 30.04 / 40
p0 −953.5 ± 3332
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 103.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.007176
Std Dev 0.8559
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 1724 / 40
p0 2111 ± 2.356
2400
2300
2200
2100
2000
1900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 42.74 / 40
p0 −1876 ± 1268
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 121
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean 0.02627
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 65.51 / 40
p0 803.8 ± 0.8963
820
810
800
790
780
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
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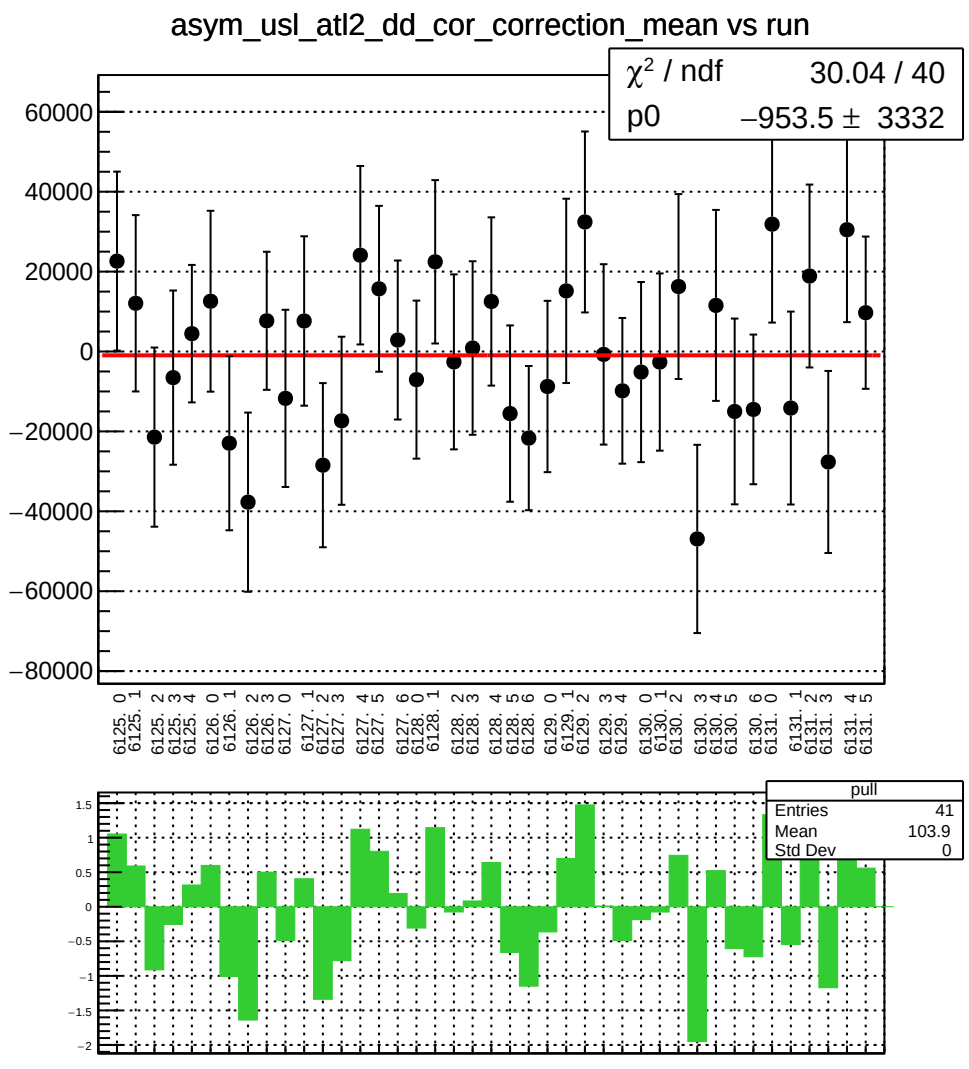
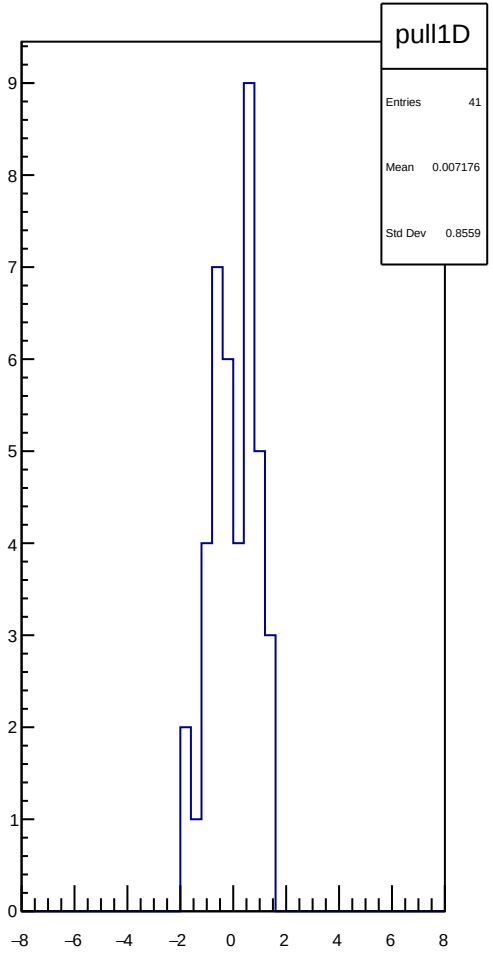
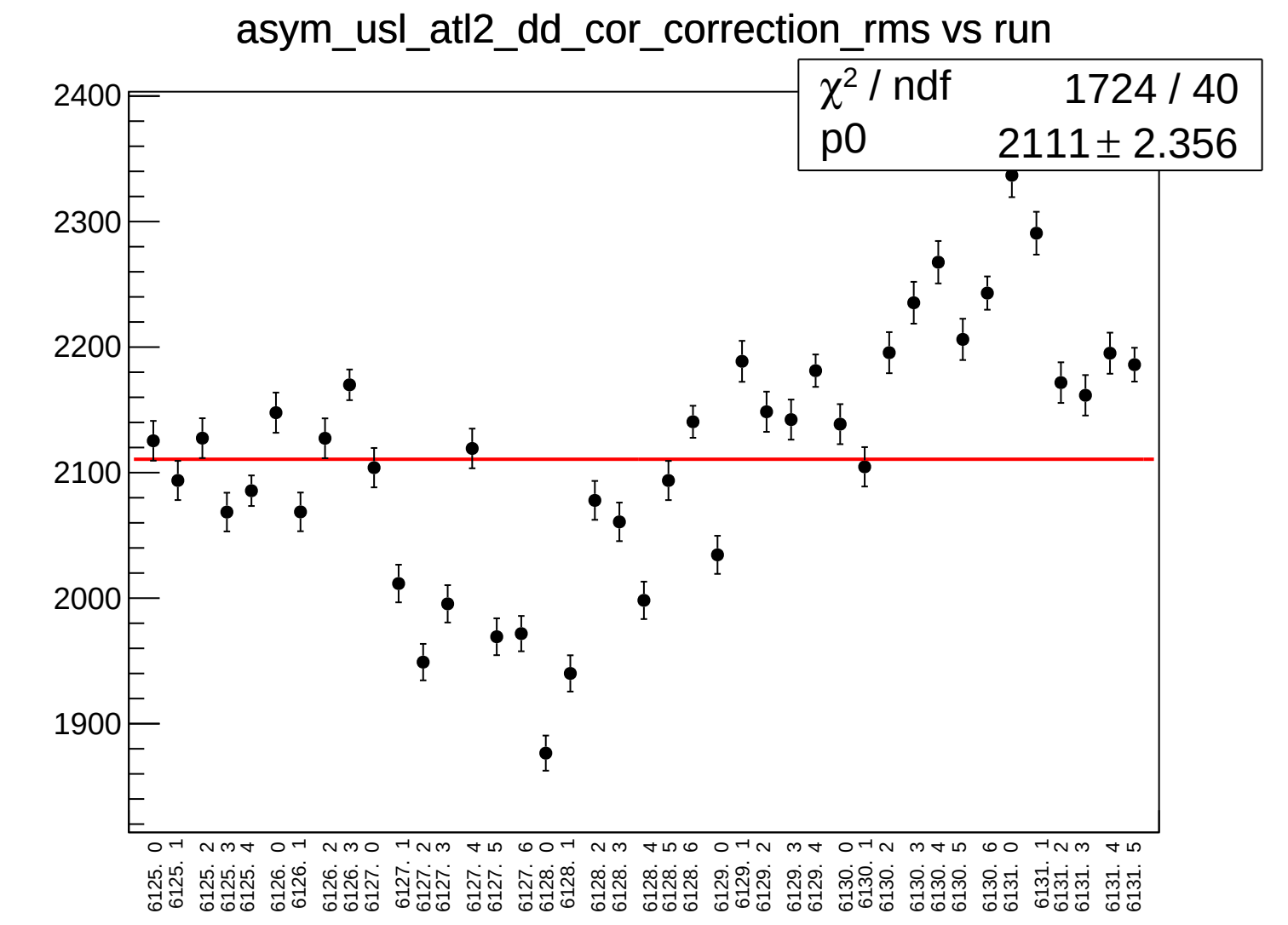
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_usl_atl2_dd_cor_correction_mean vs run
χ² / ndf 30.04 / 40
p0 −953.5 ± 3332
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 103.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.007176
Std Dev 0.8559
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 1724 / 40
p0 2111 ± 2.356
2400
2300
2200
2100
2000
1900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6130. 5
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6131. 0
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6131. 2
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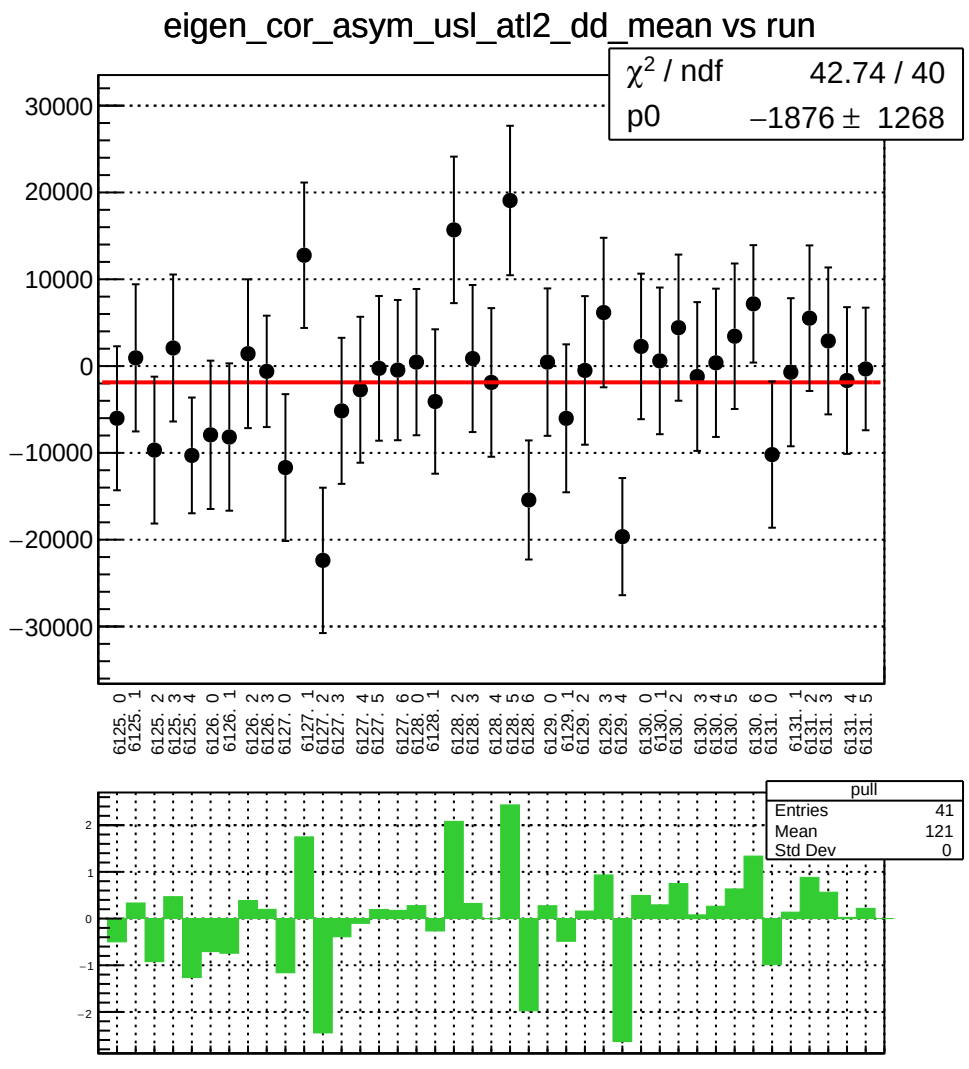
6131. 4
6131. 5


eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 42.74 / 40
p0 −1876 ± 1268
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
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6127. 1
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6127. 5
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6128. 0
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6128. 6
6129. 0
6129. 1
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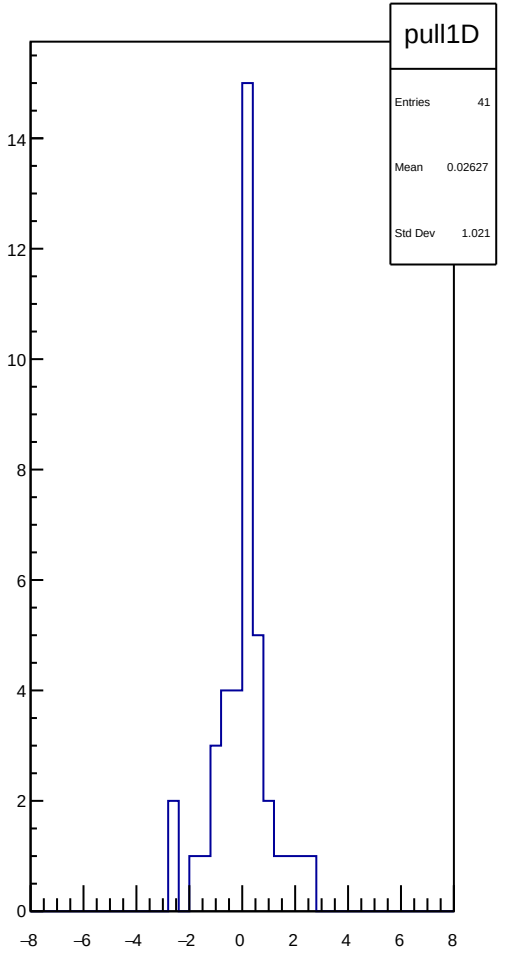
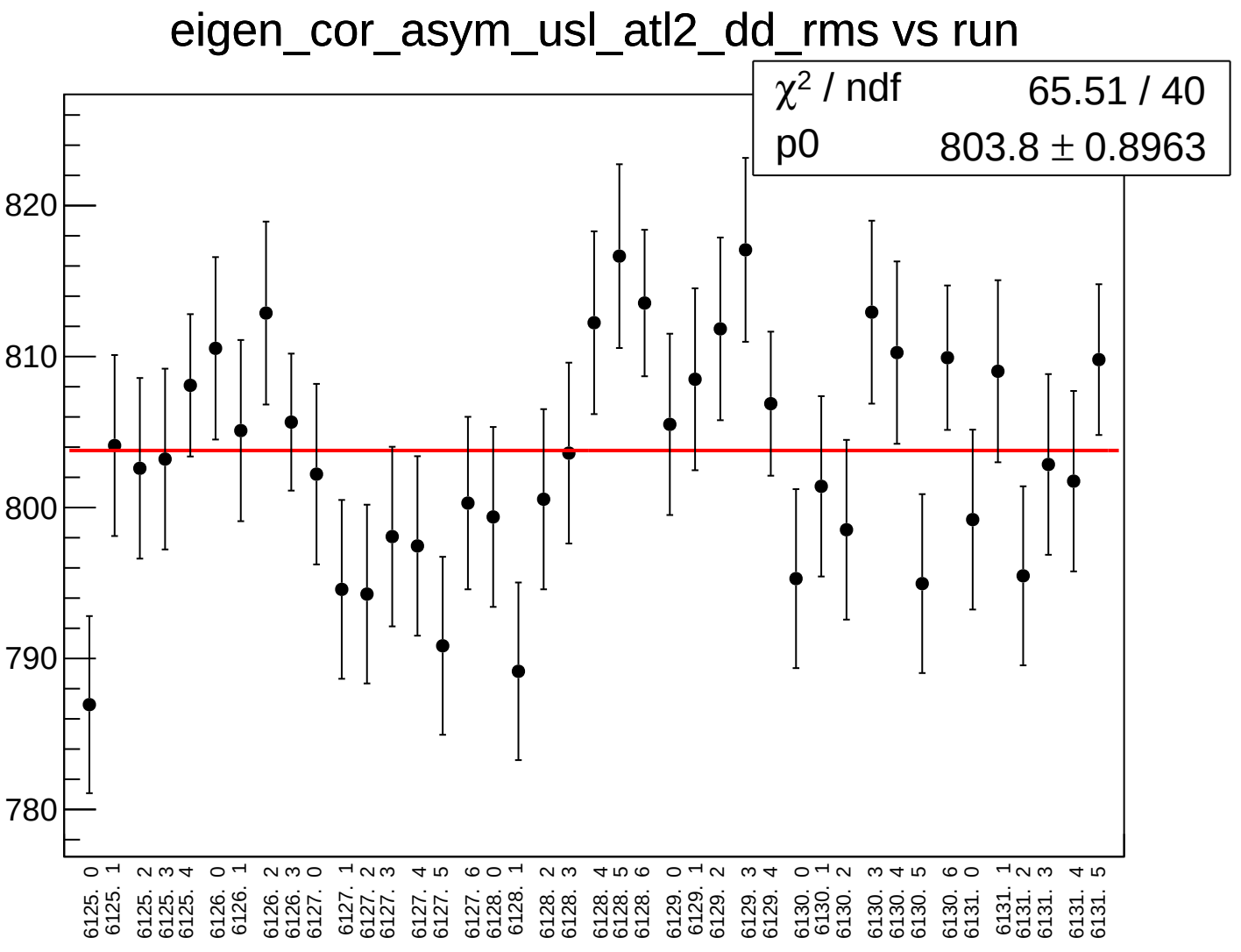
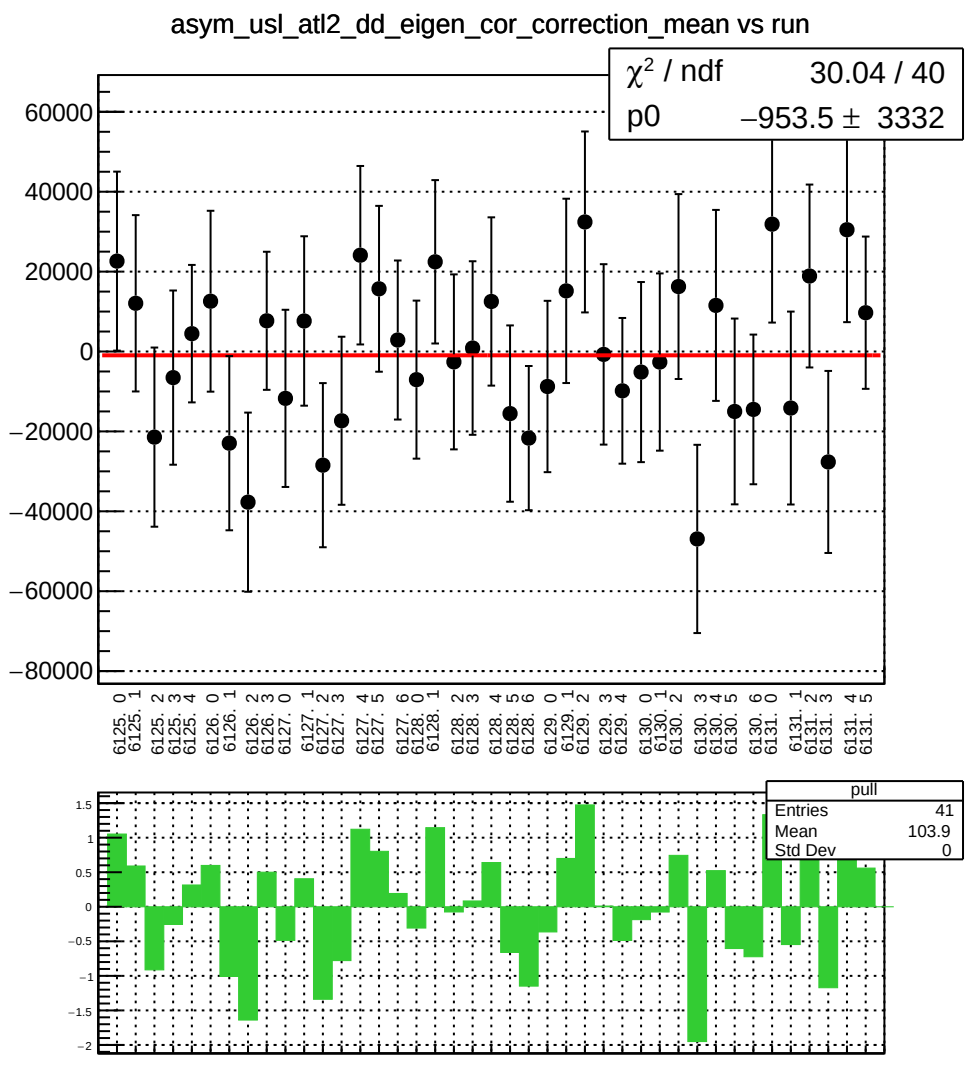
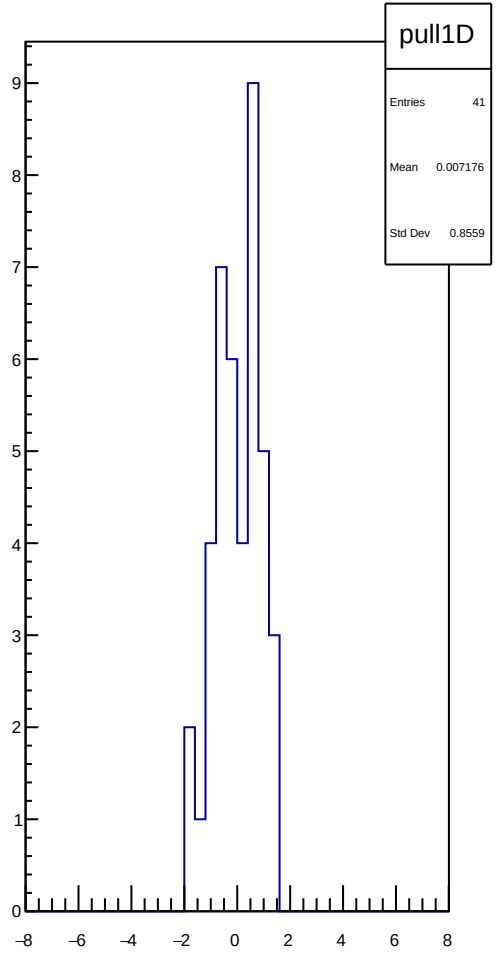
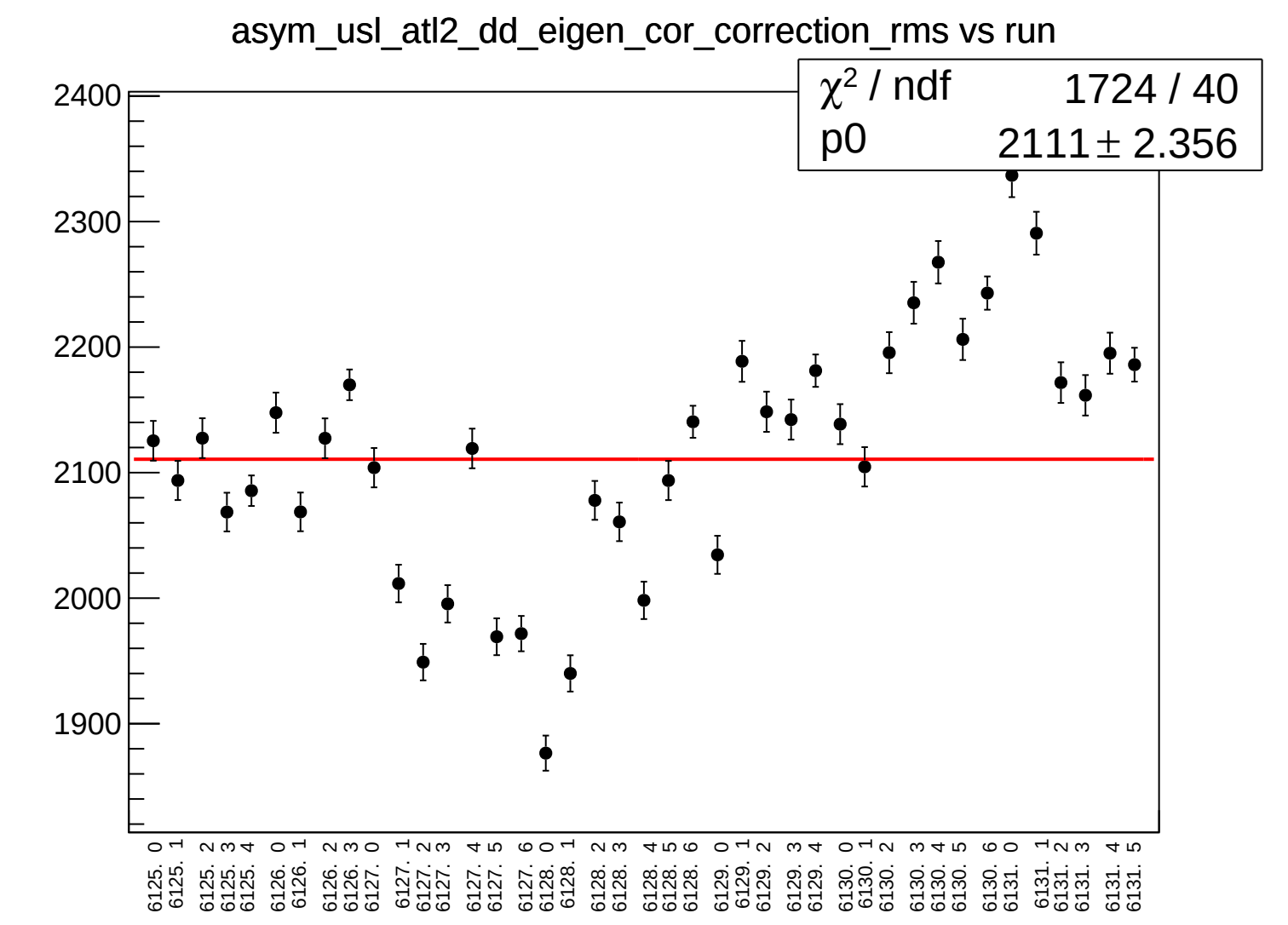
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 121
Std Dev 0
2
1
0
−1
−2

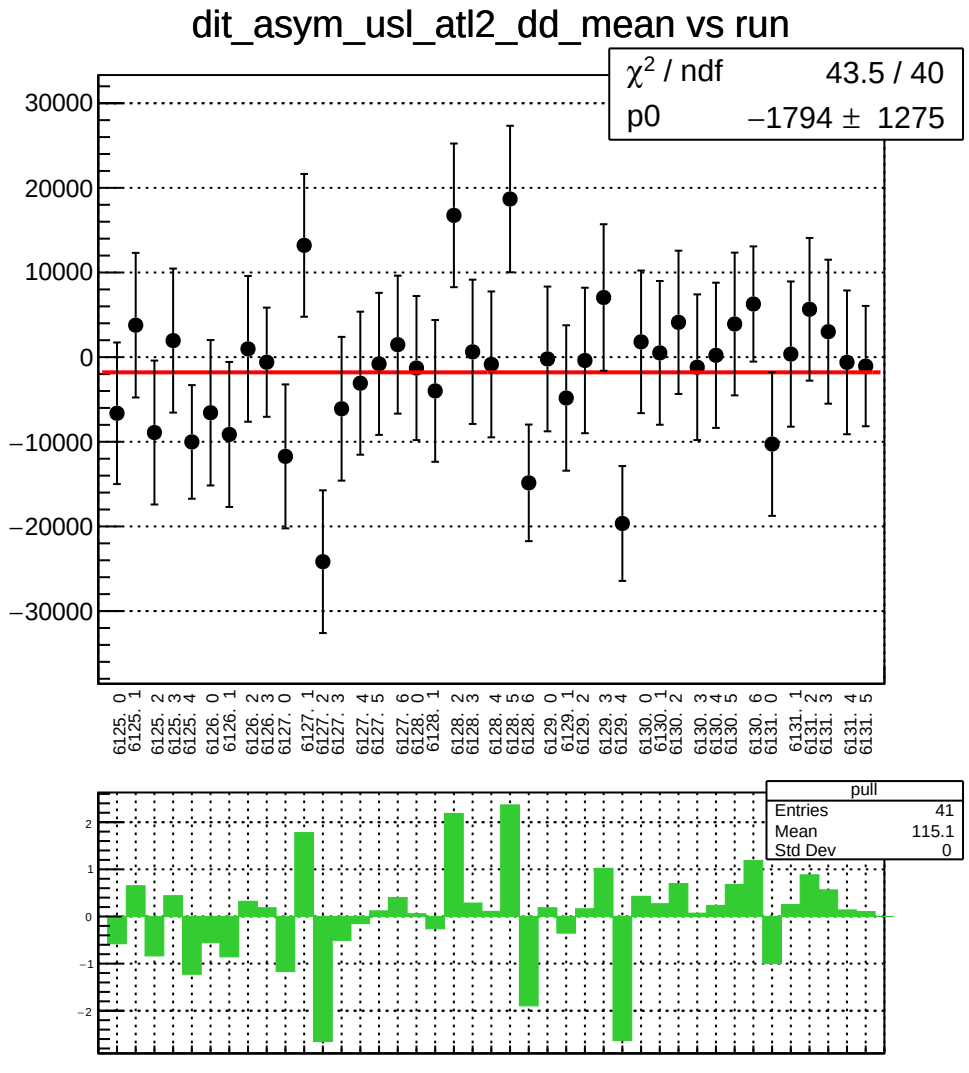

pull1D
Entries 41
Mean 0.02627
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

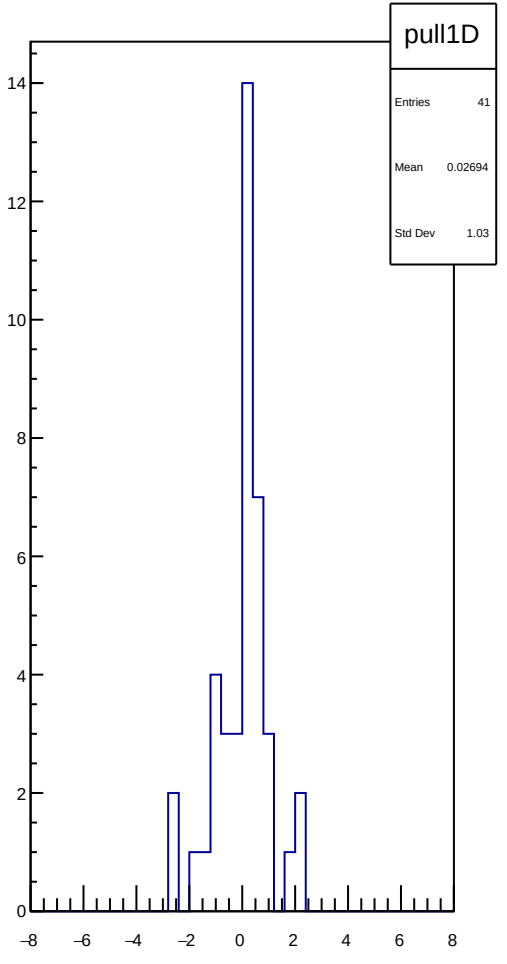

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 65.51 / 40
p0 803.8 ± 0.8963
820
810
800
790
780
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

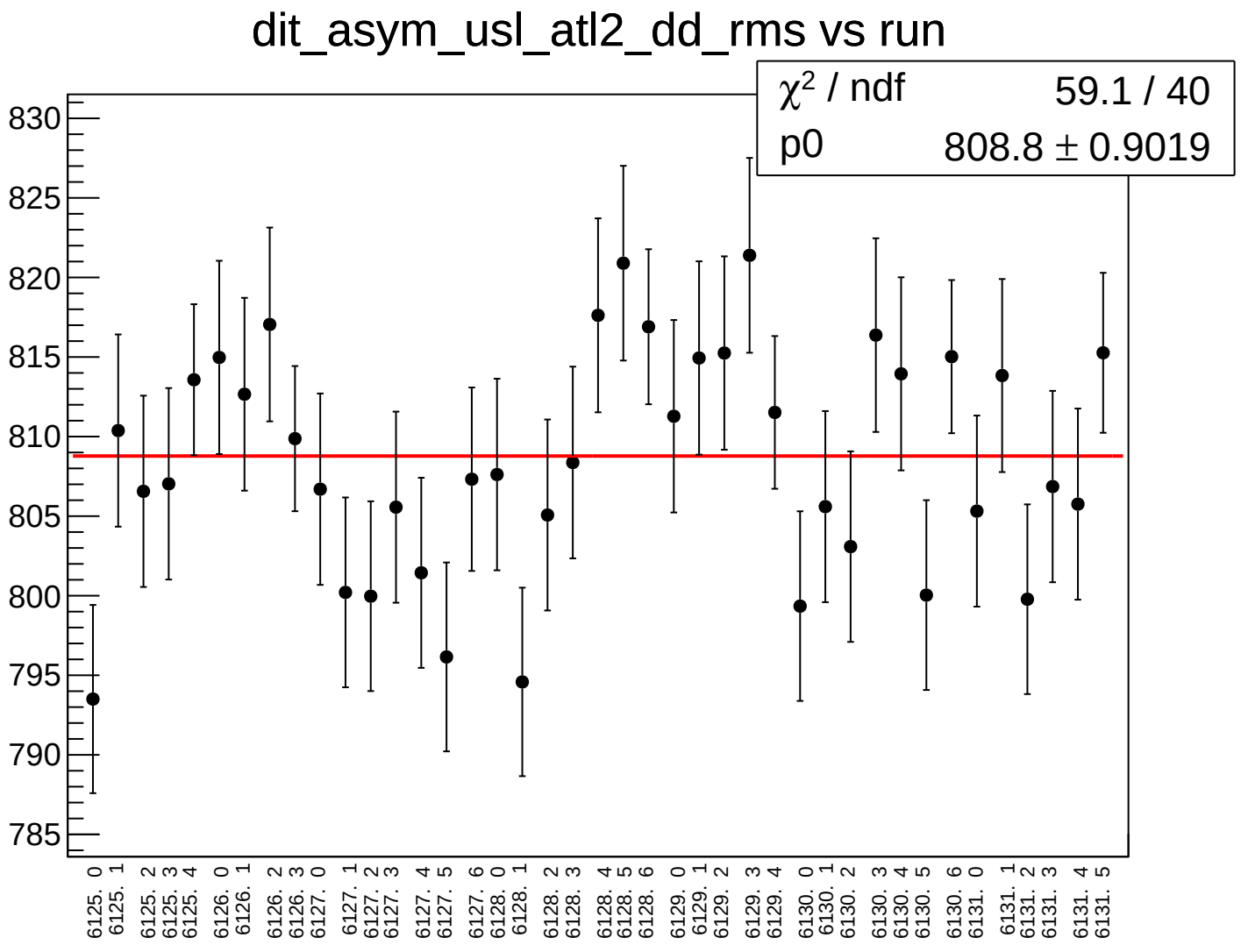

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
χ² / ndf 30.04 / 40
p0 −953.5 ± 3332
pull
Entries 41
Mean 103.9
Std Dev 0

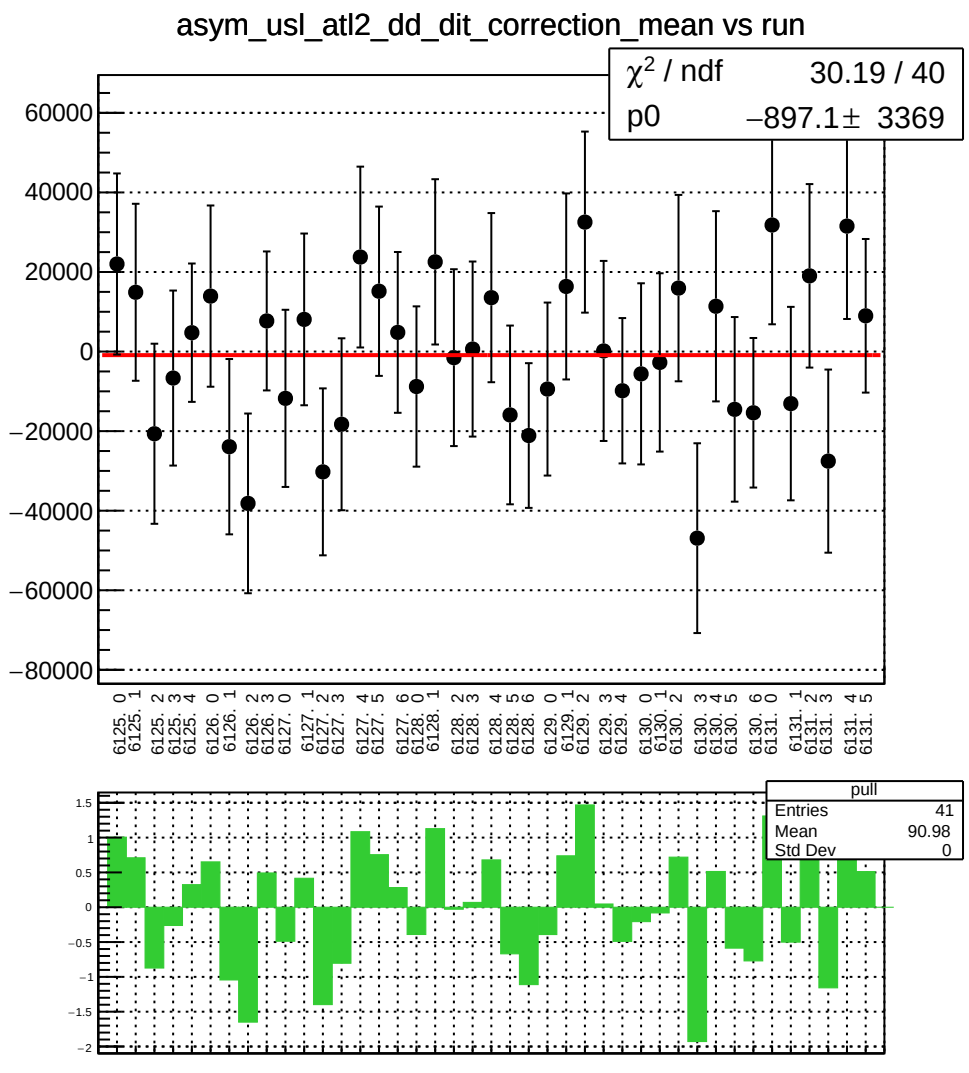

pull1D
Entries 41
Mean 0.007176
Std Dev 0.8559

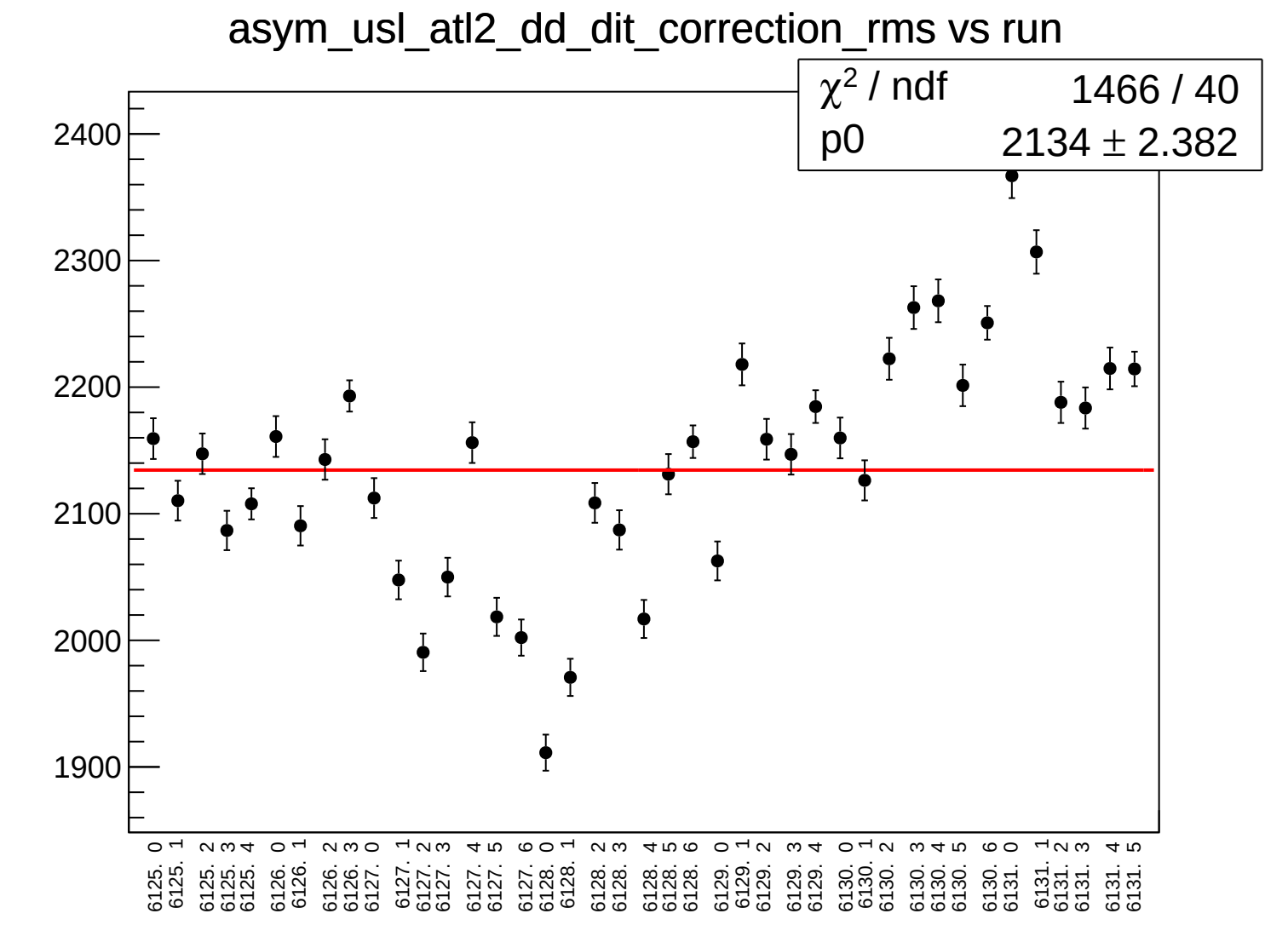

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1724 / 40
p0 2111 ± 2.356
2400
2300
2200
2100
2000
1900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

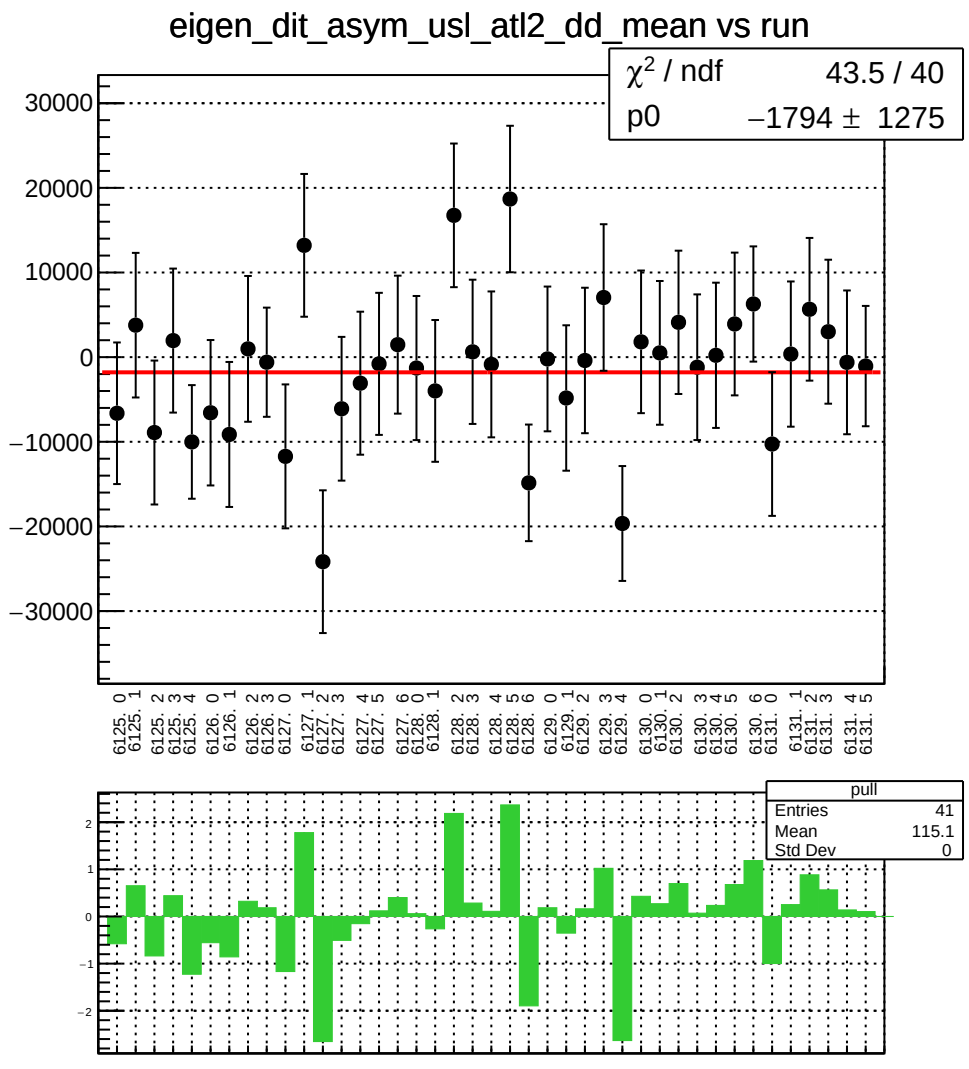

dit_asym_usl_atl2_dd_mean vs run
χ^2 / ndf 43.5 / 40
p0 −1794 ± 1275
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 115.1
Std Dev 0
2
1
0
−1
−2

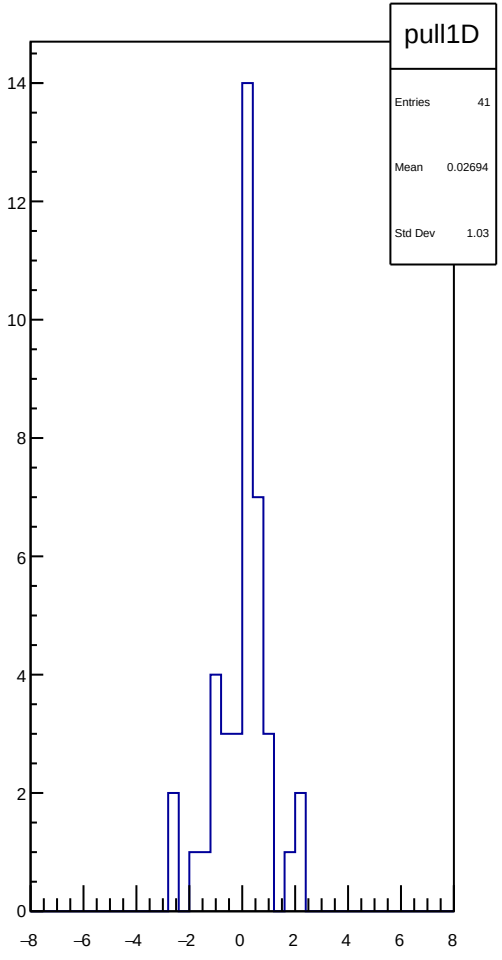

pull1D
Entries 41
Mean 0.02694
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

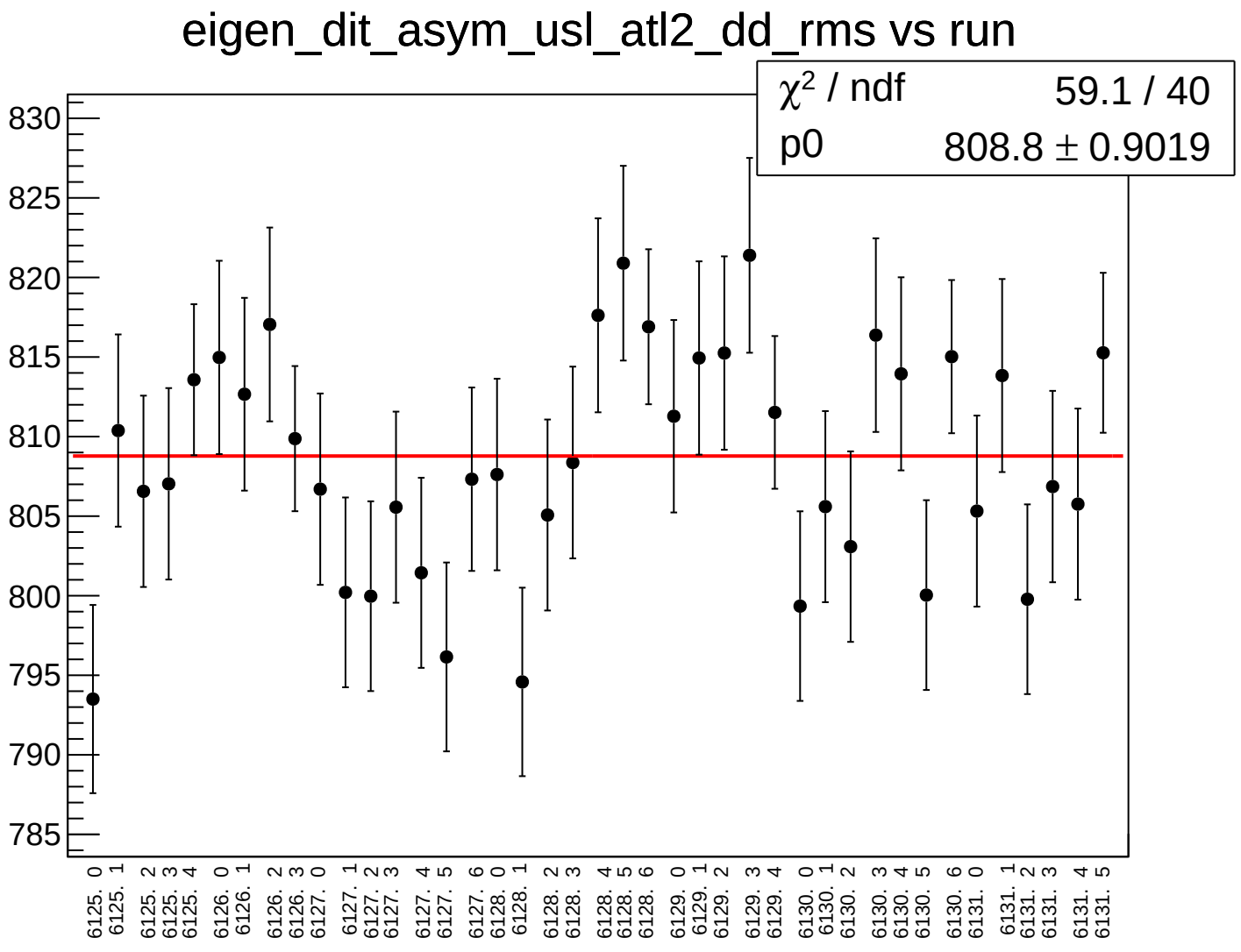

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 59.1 / 40
p0 808.8 ± 0.9019
830
825
820
815
810
805
800
795
790
785
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

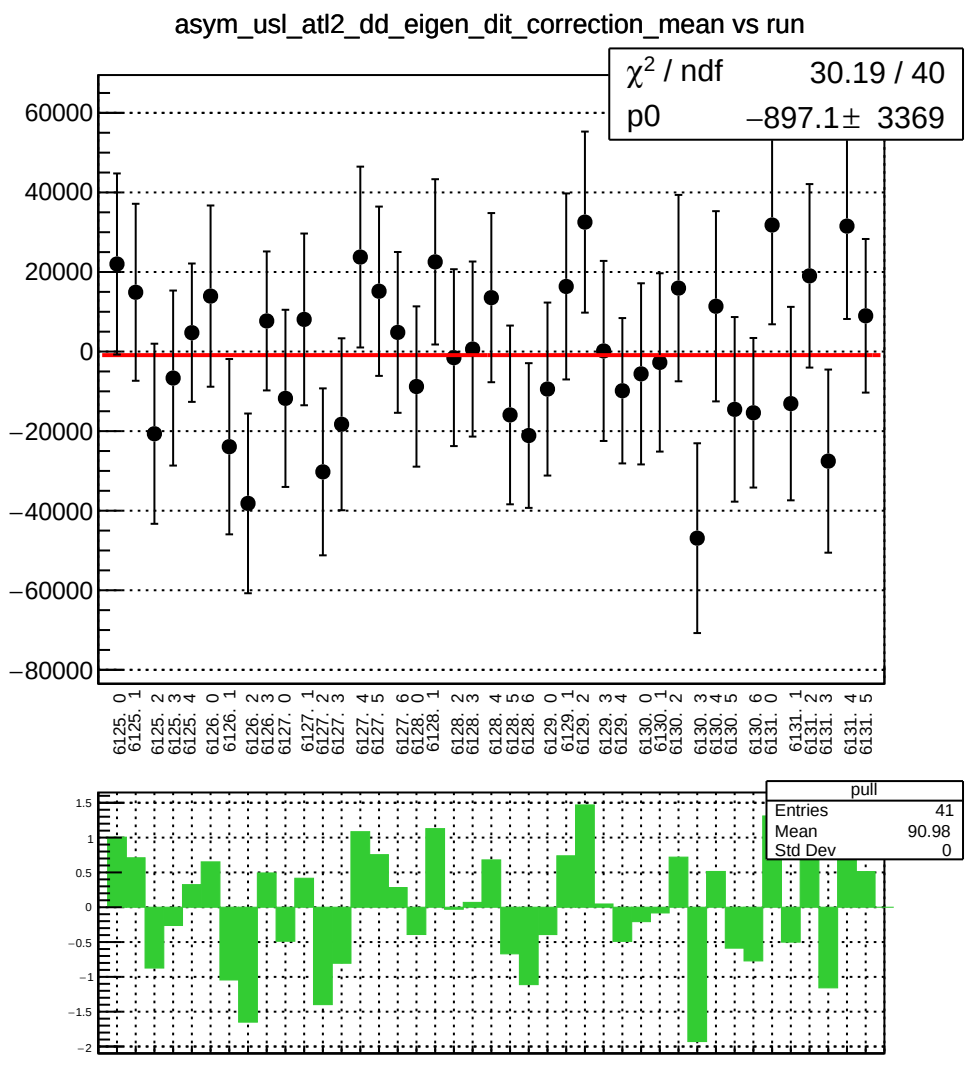

asym_usl_atl2_dd_dit_correction_mean vs run
χ² / ndf 30.19 / 40
p0 −897.1± 3369
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 90.98
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.008011
Std Dev 0.858
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

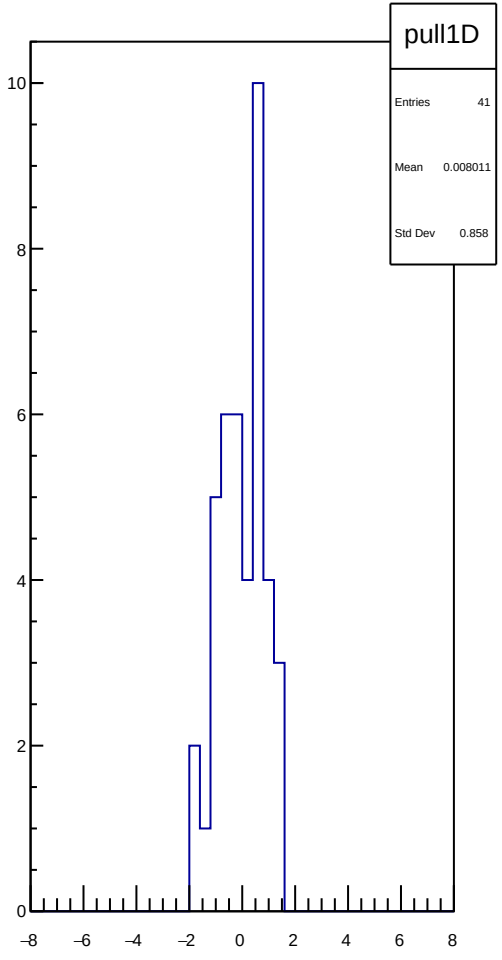

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 1466 / 40
p0 2134 ± 2.382
2400
2300
2200
2100
2000
1900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

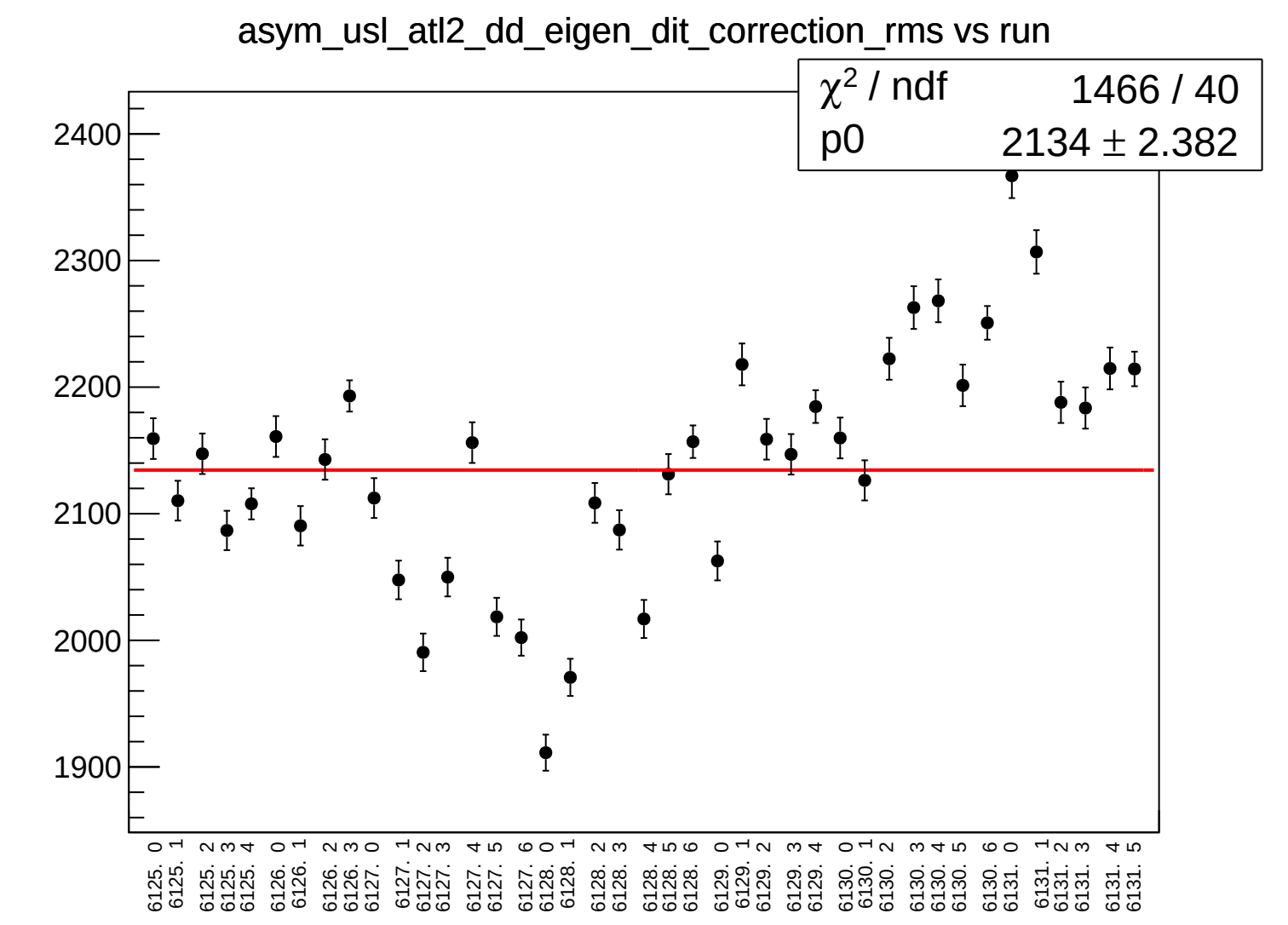

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 43.5 / 40
p0 −1794 ± 1275
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 115.1
Std Dev 0
2
1
0
−1
−2

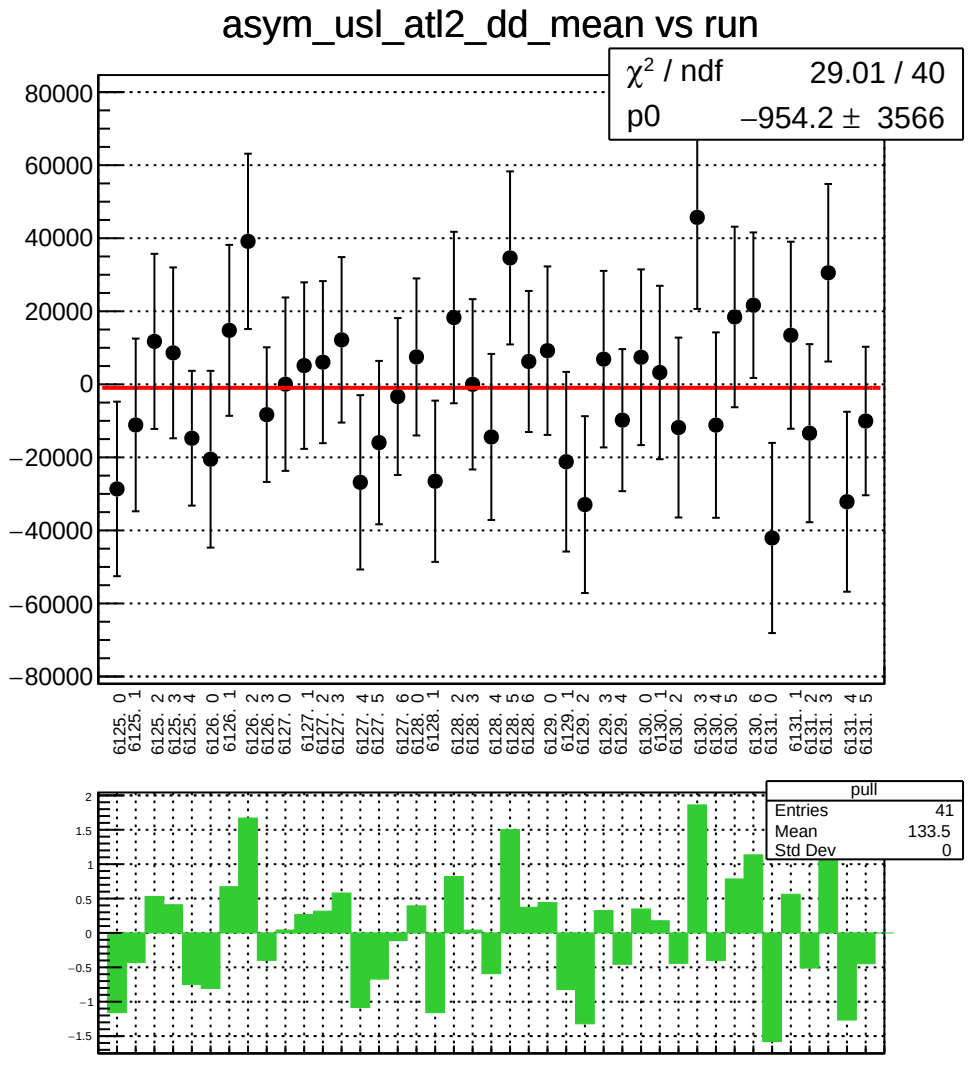

pull1D
Entries 41
Mean 0.02694
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

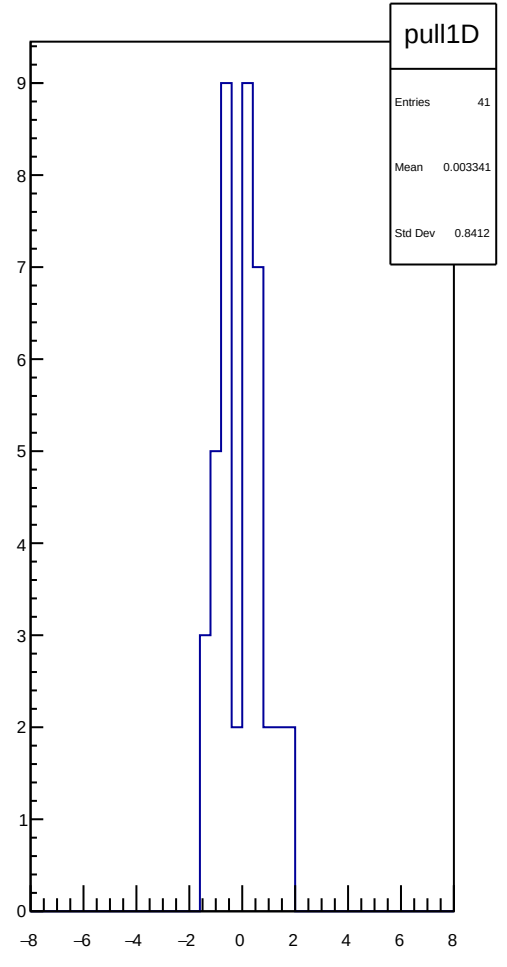

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 59.1 / 40
p0 808.8 ± 0.9019
830
825
820
815
810
805
800
795
790
785
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

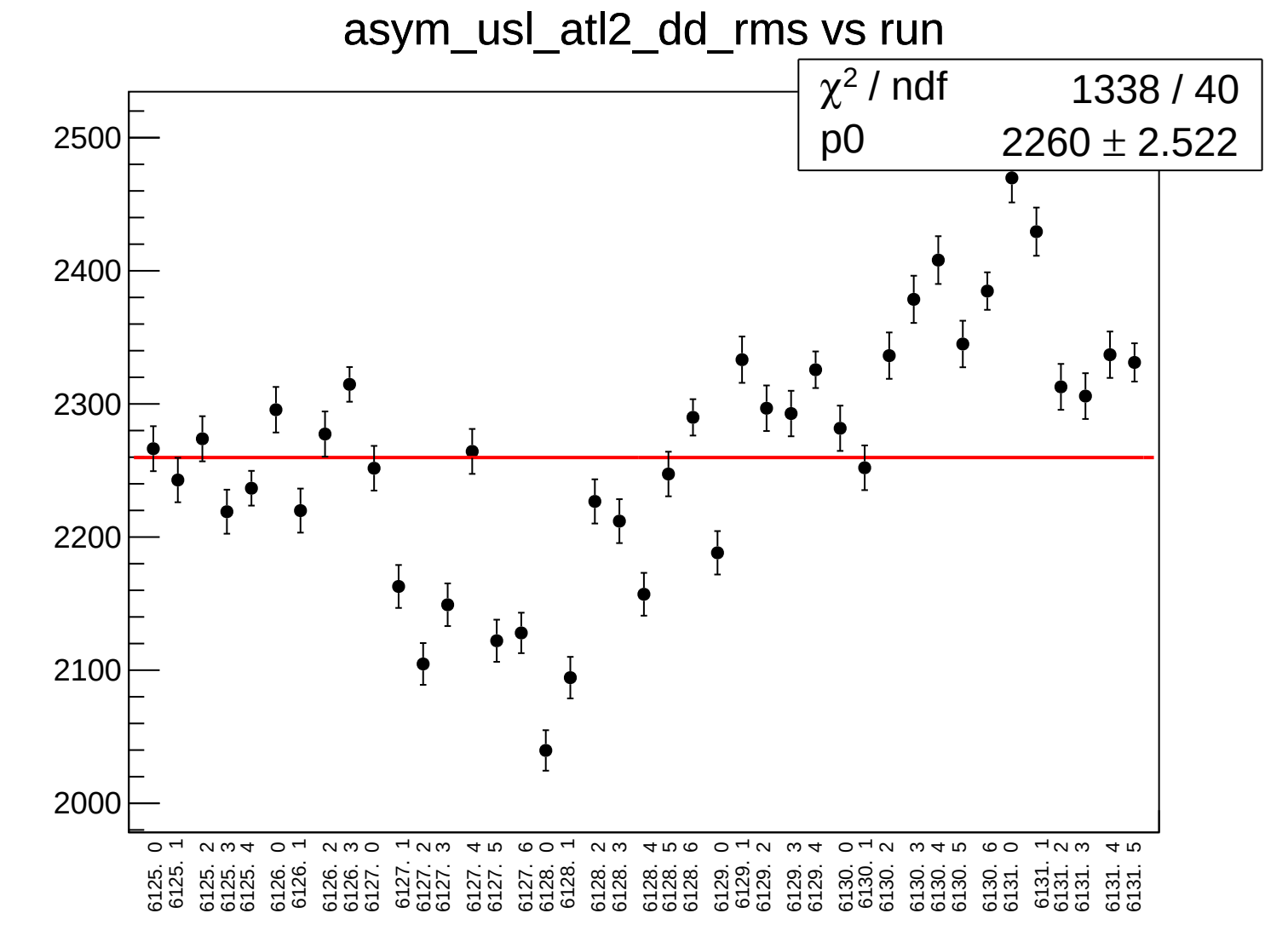

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
χ² / ndf 30.19 / 40
p0 −897.1± 3369
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 90.98
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

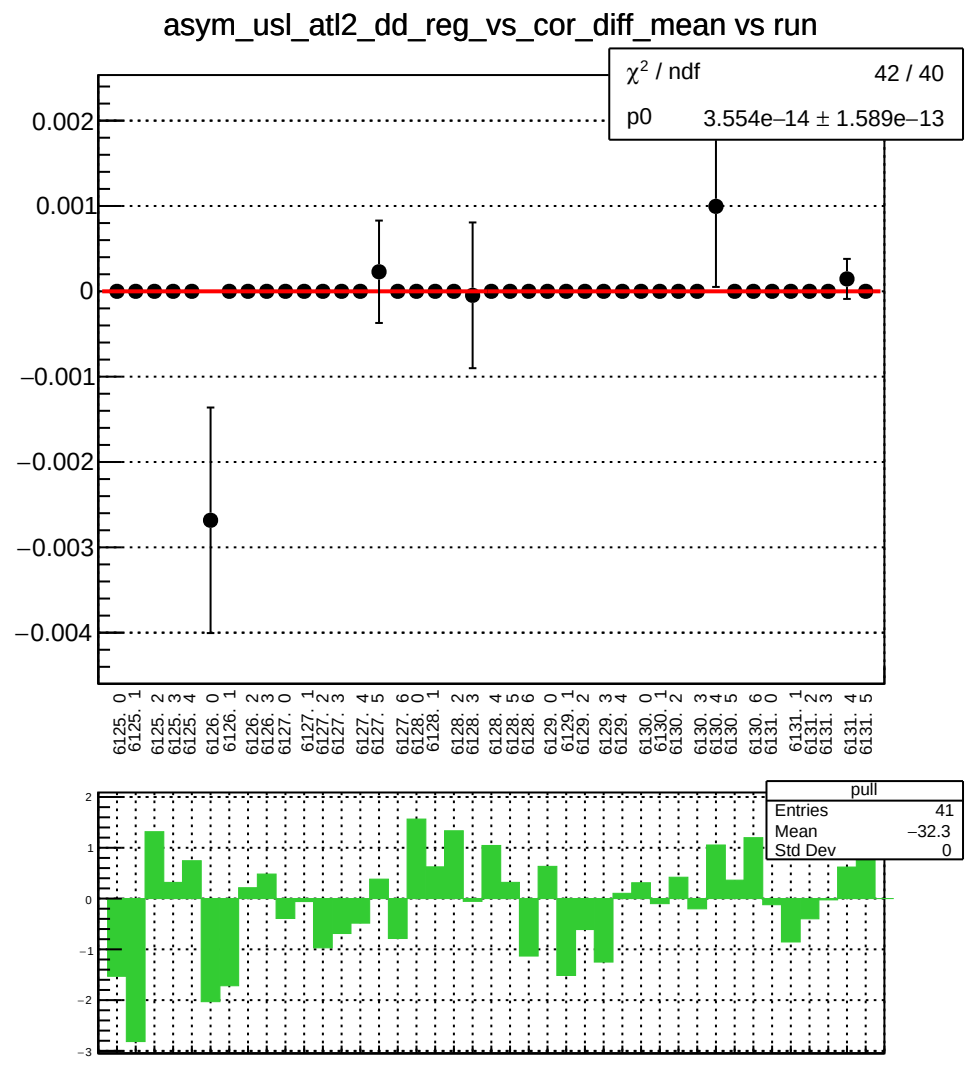

pull1D
Entries 41
Mean 0.008011
Std Dev 0.858
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

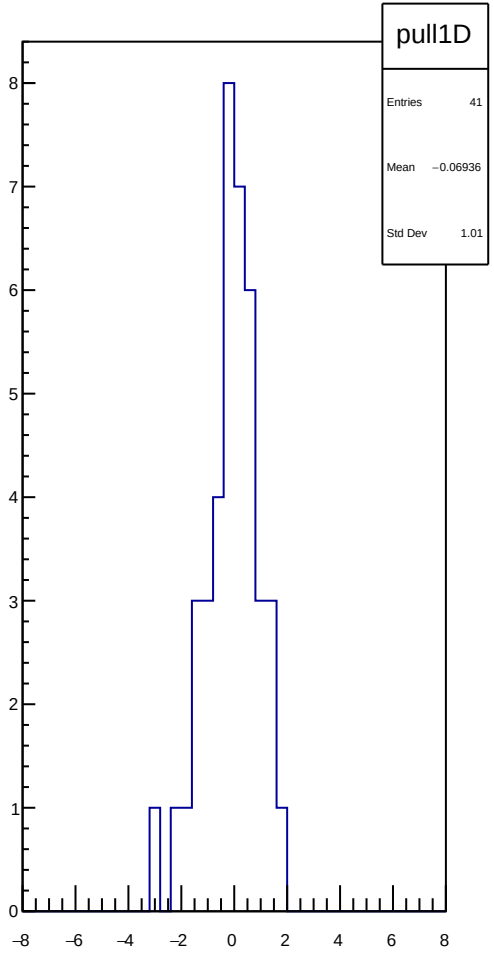

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1466 / 40
p0 2134 ± 2.382
2400
2300
2200
2100
2000
1900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

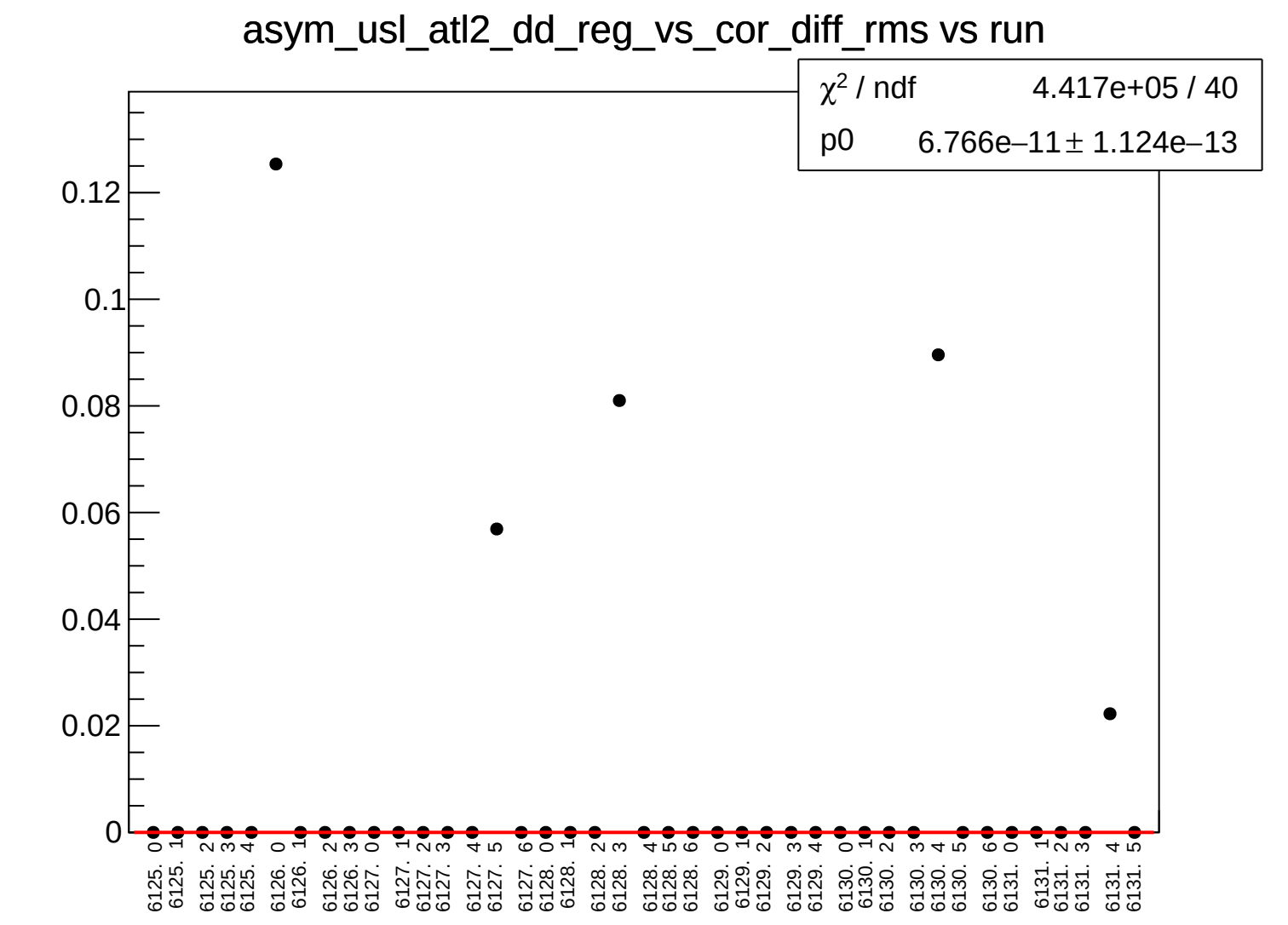

asym_usl_atl2_dd_mean vs run
χ² / ndf 29.01 / 40
p0 −954.2 ± 3566
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 133.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

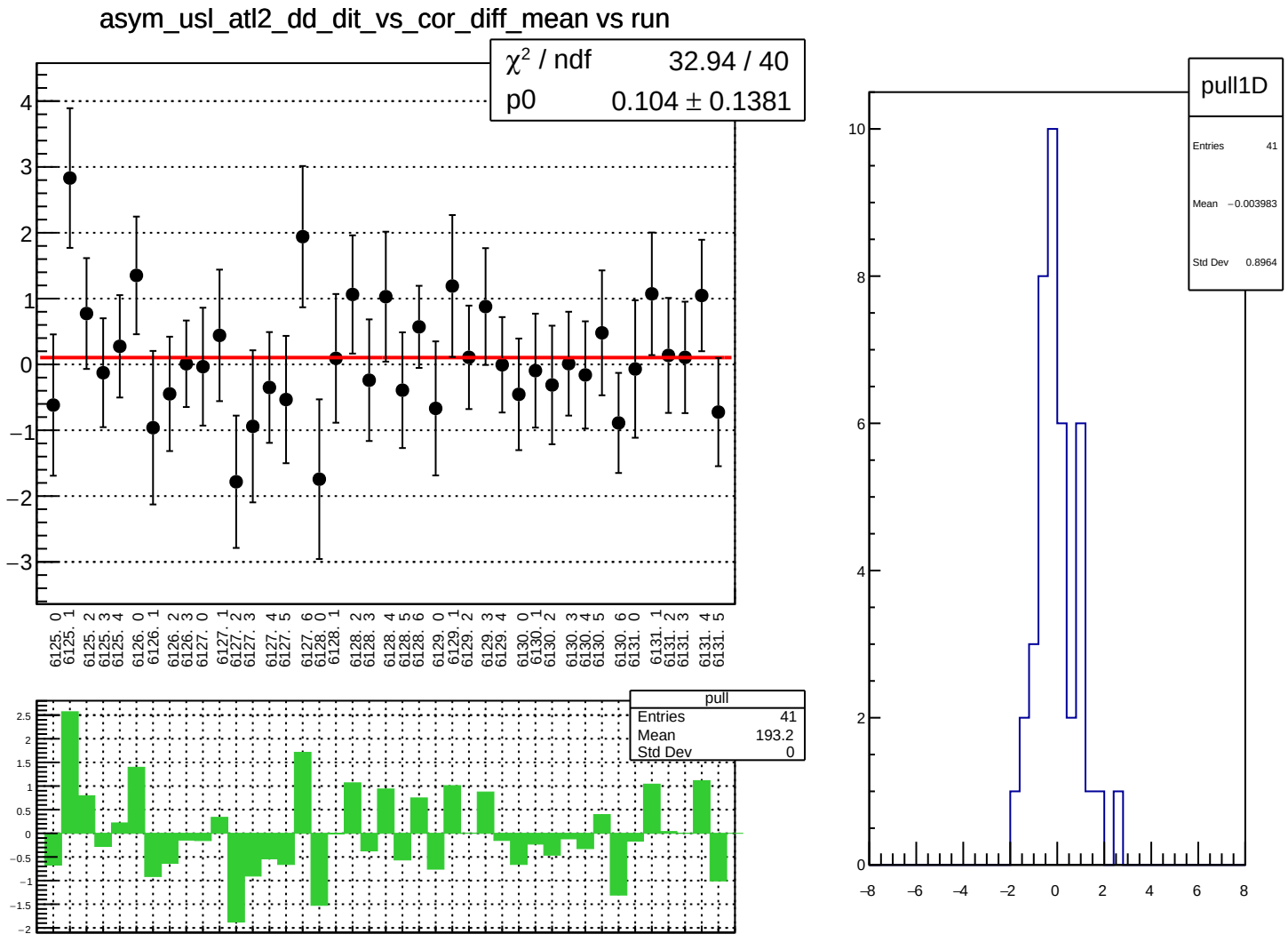

pull1D
Entries 41
Mean 0.003341
Std Dev 0.8412
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

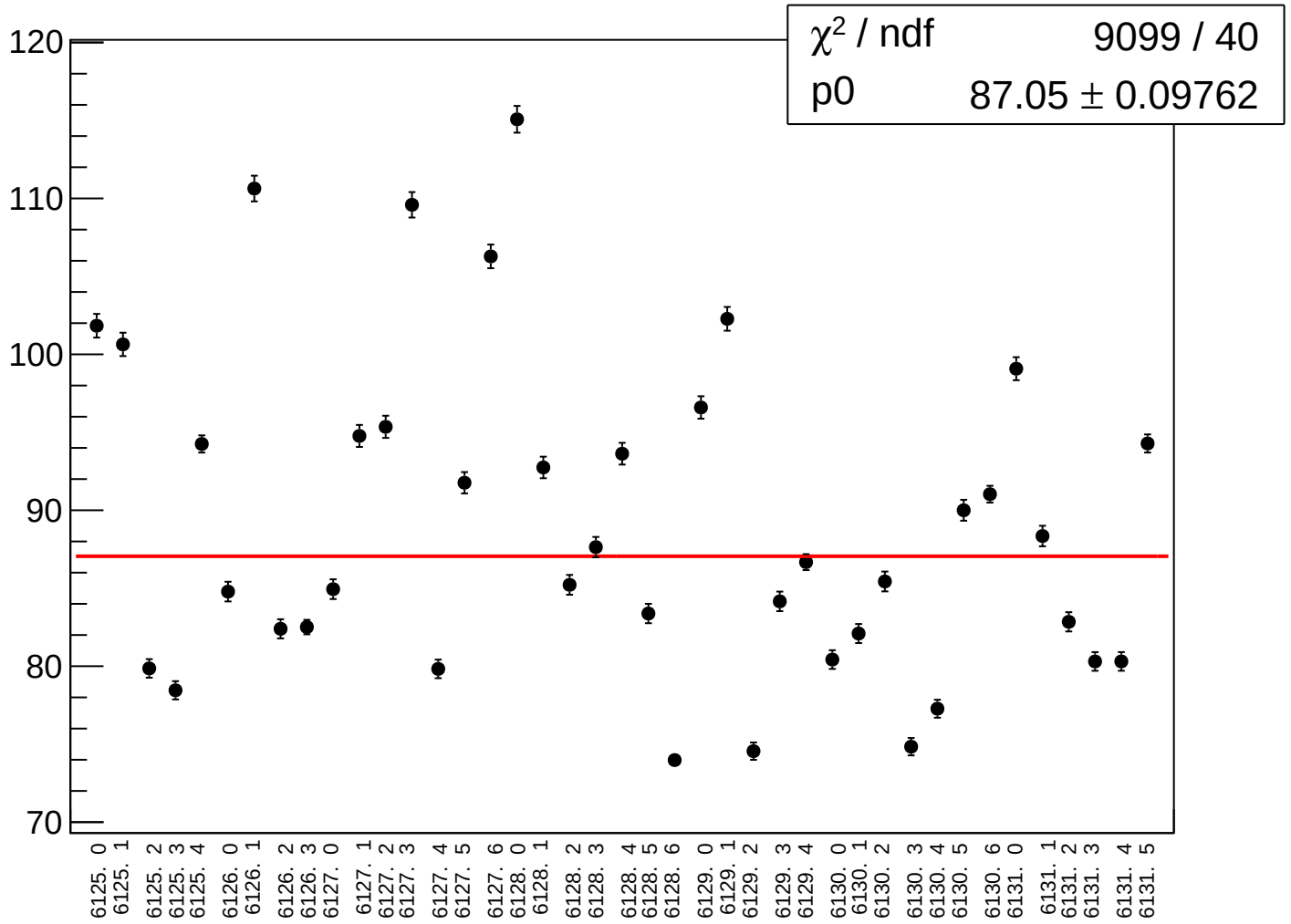

asym_usl_atl2_dd_rms vs run
χ² / ndf 1338 / 40
p0 2260 ± 2.522
2500
2400
2300
2200
2100
2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

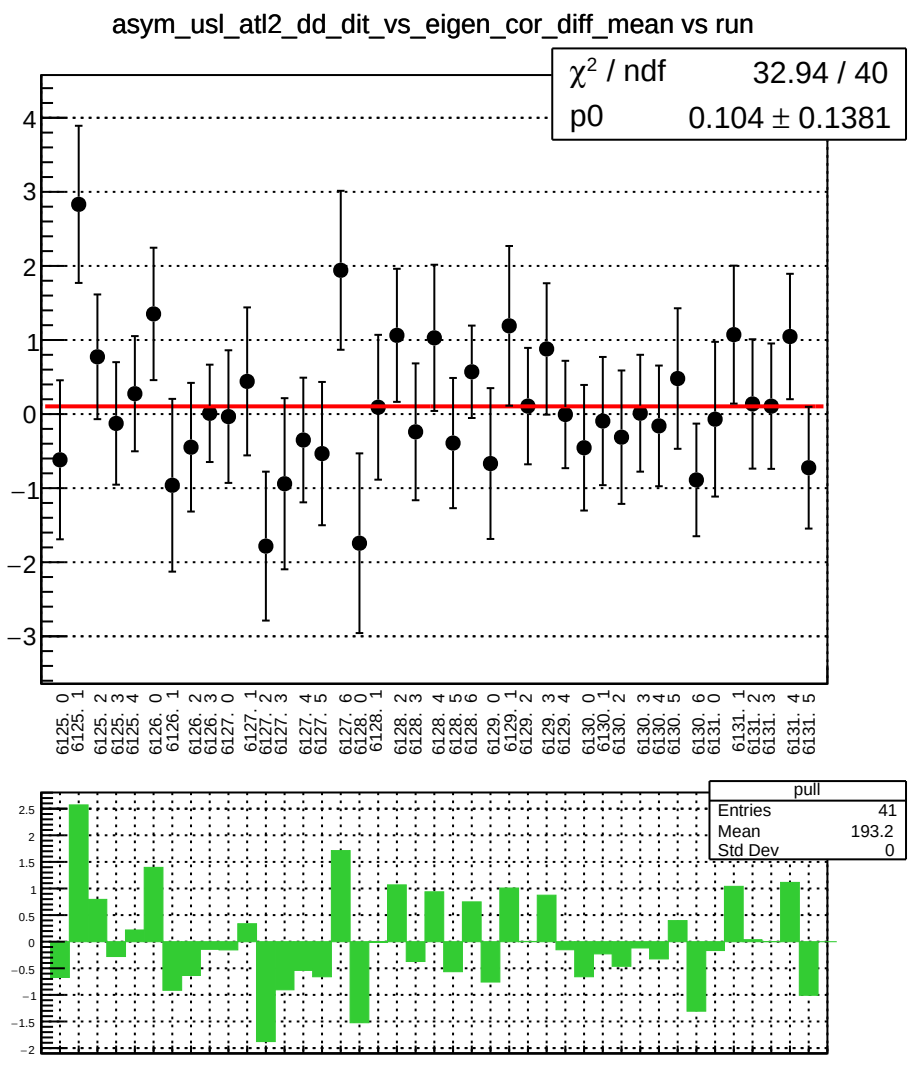

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 42 / 40
p0 3.554e−14 ± 1.589e−13
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −32.3
Std Dev 0
2
1
0
−1
−2
−3

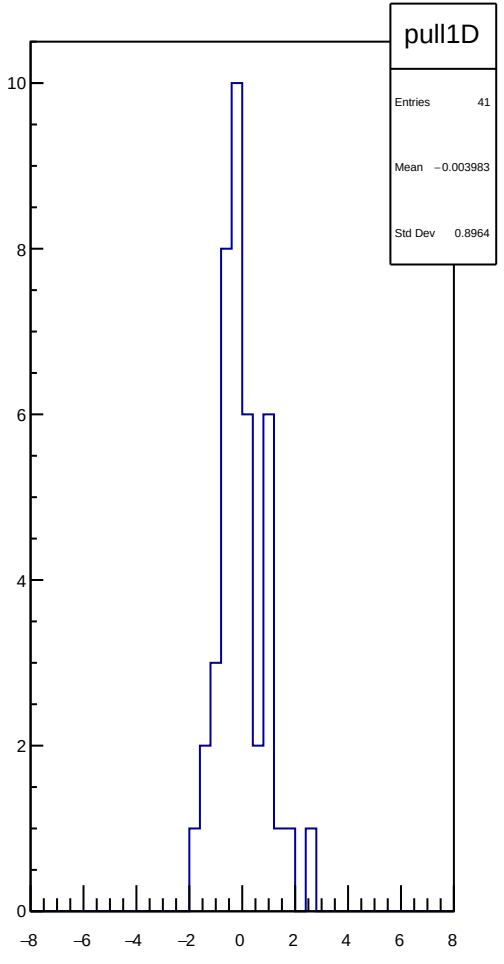

pull1D
Entries 41
Mean −0.06936
Std Dev 1.01
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

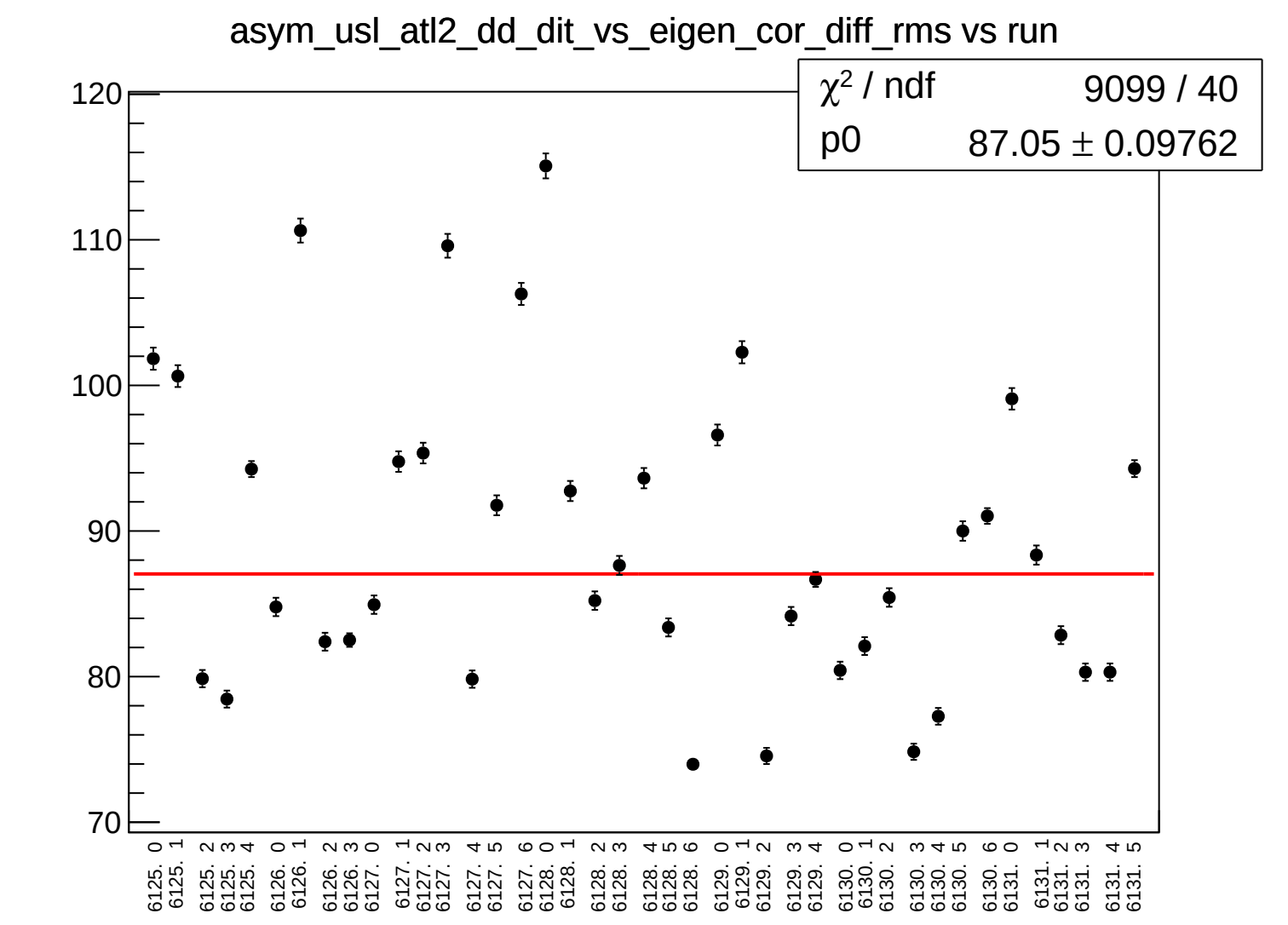

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.417e+05 / 40
p0 6.766e−11 ± 1.124e−13
0.12
0.1
0.08
0.06
0.04
0.02
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

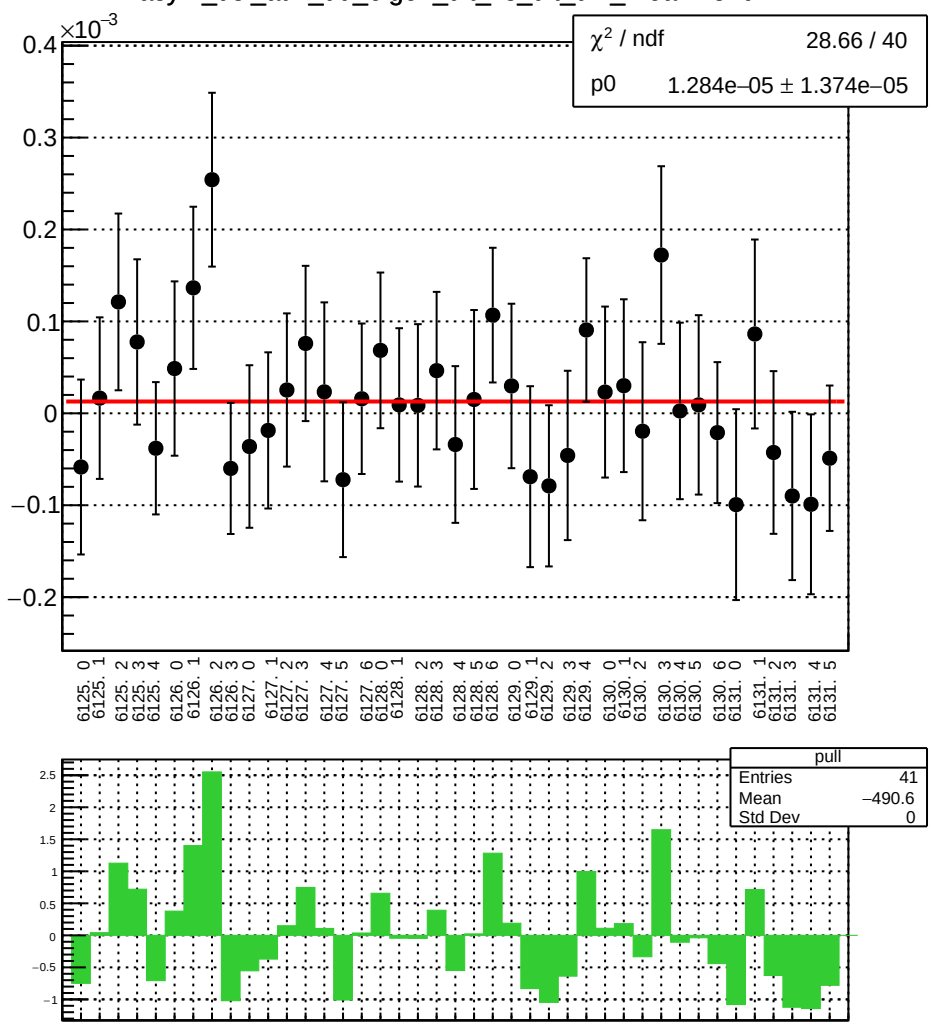

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 32.94 / 40
p0 0.104 ± 0.1381
pull
Entries 41
Mean 193.2
Std Dev 0
pull1D
Entries 41
Mean −0.003983
Std Dev 0.8964

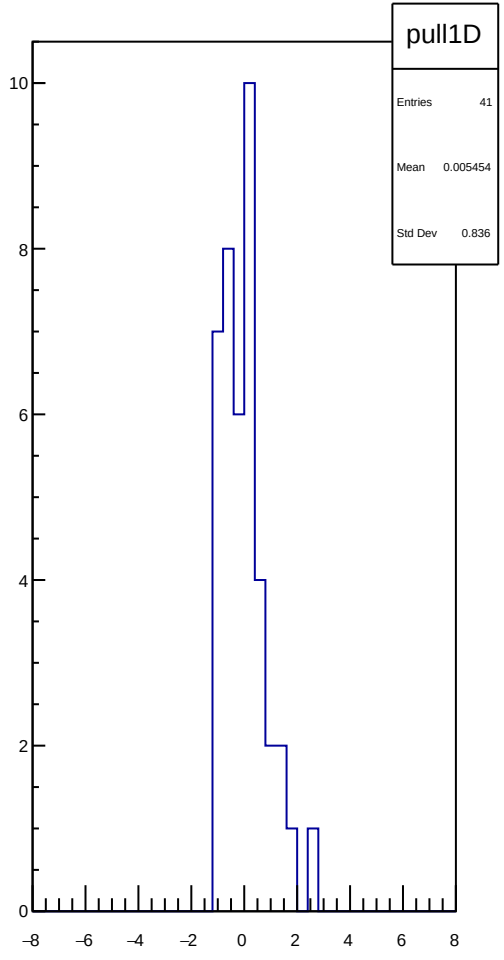

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9099 / 40
p0 87.05 ± 0.09762
120
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

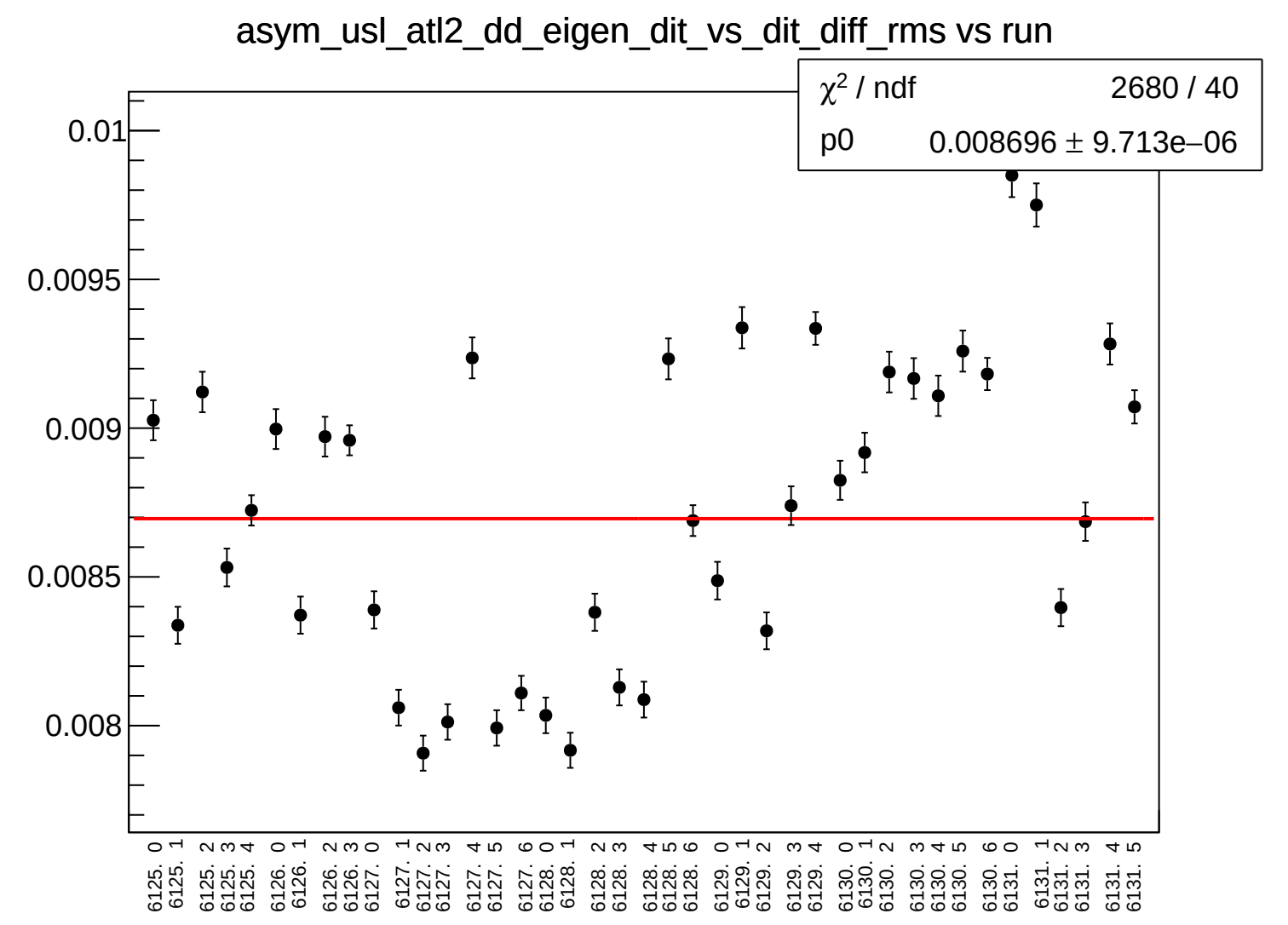

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.94 / 40
p0 0.104 ± 0.1381
pull
Entries 41
Mean 193.2
Std Dev 0

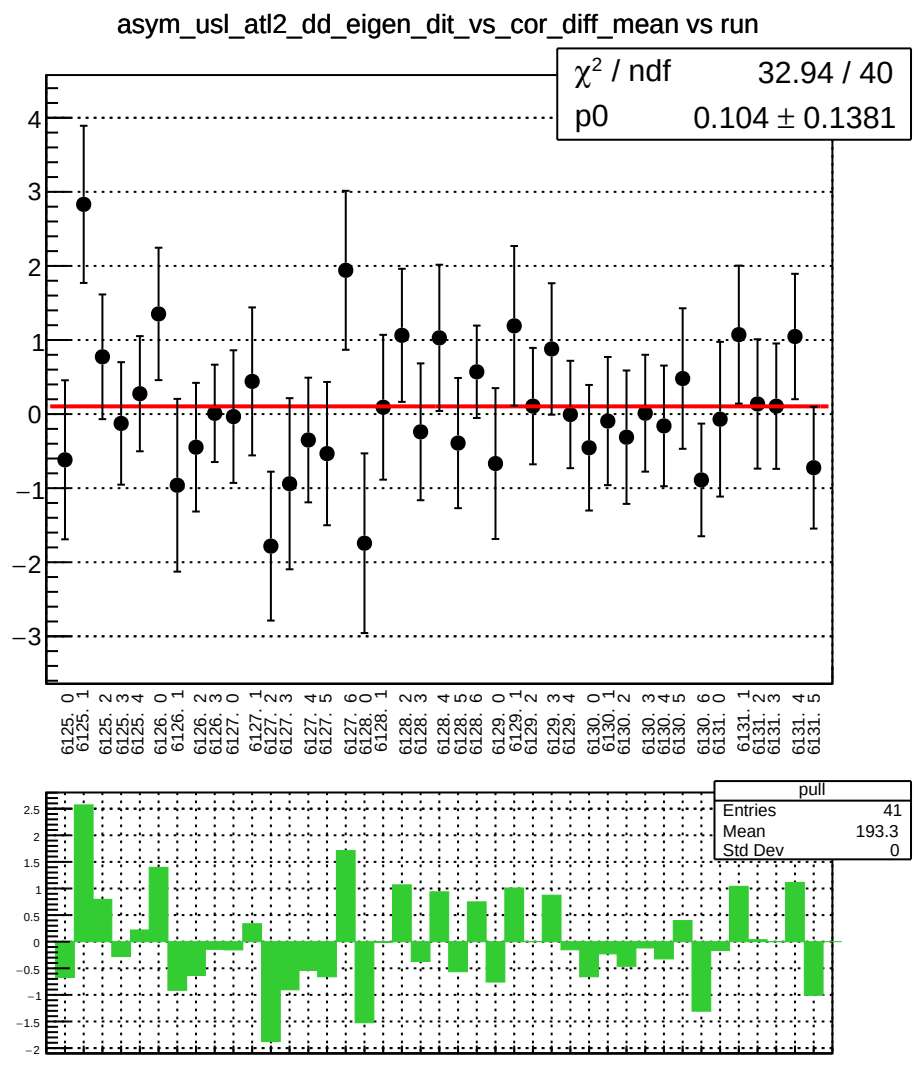

pull1D
Entries 41
Mean −0.003983
Std Dev 0.8964

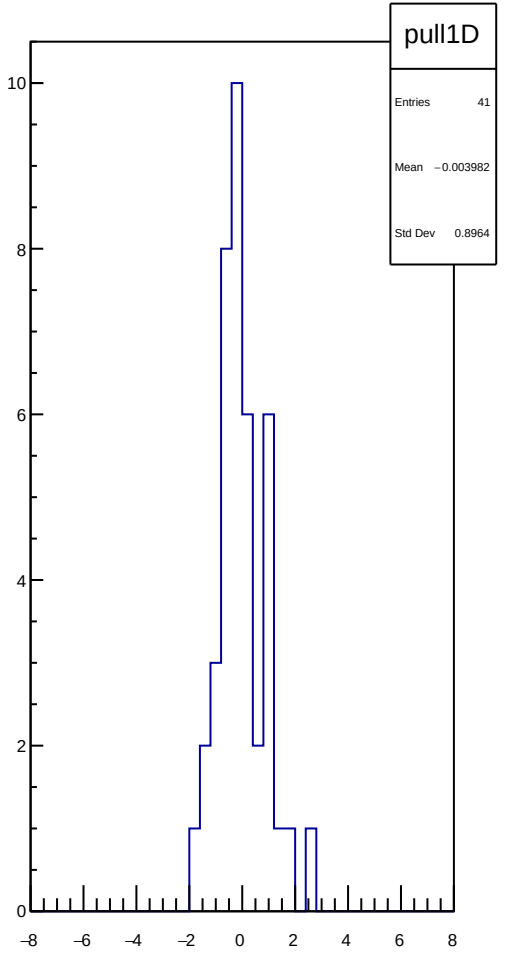

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9099 / 40
p0 87.05 ± 0.09762
120
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

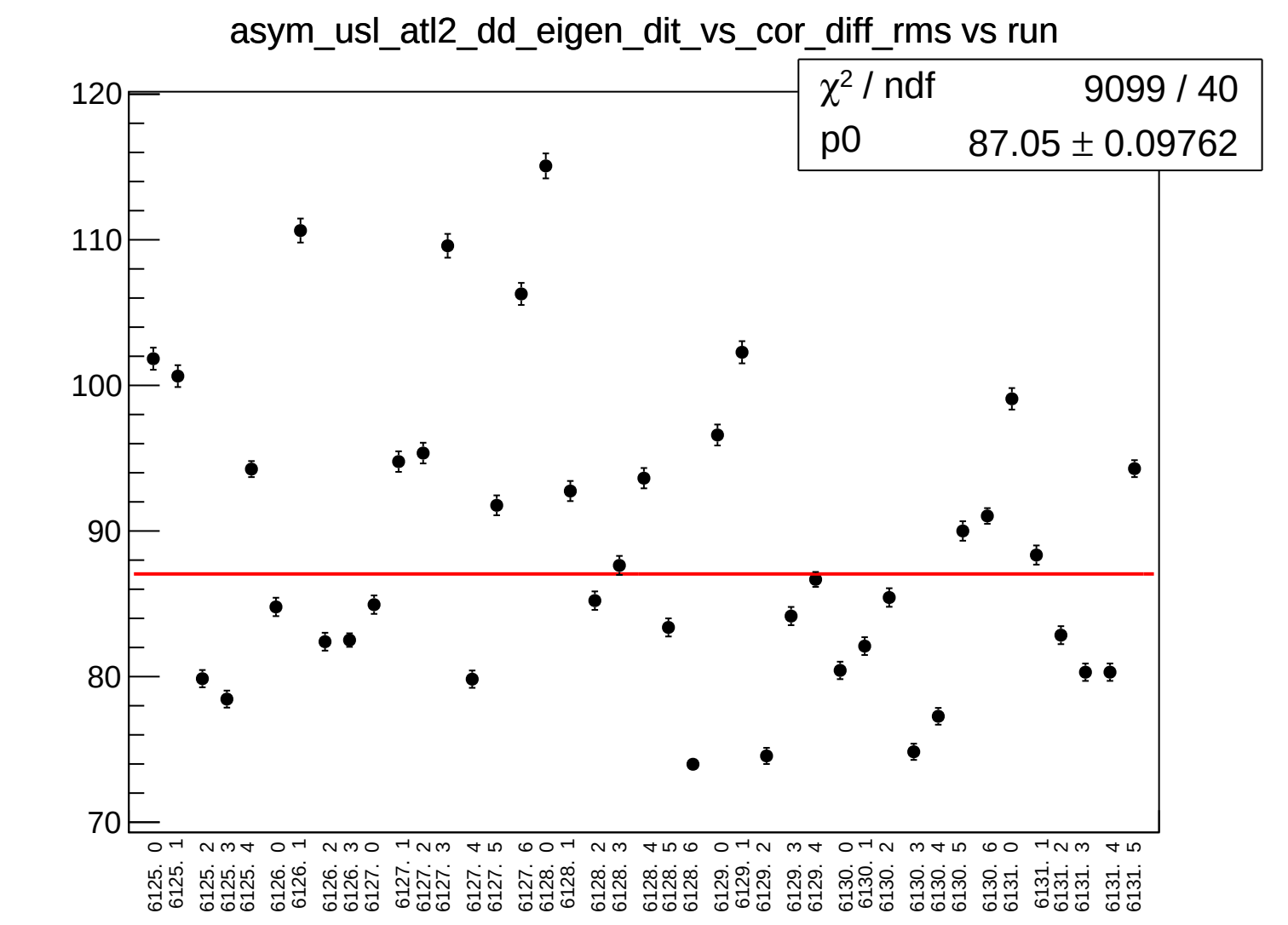

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 28.66 / 40
p0 1.284e−05 ± 1.374e−05
pull
Entries 41
Mean −490.6
Std Dev 0

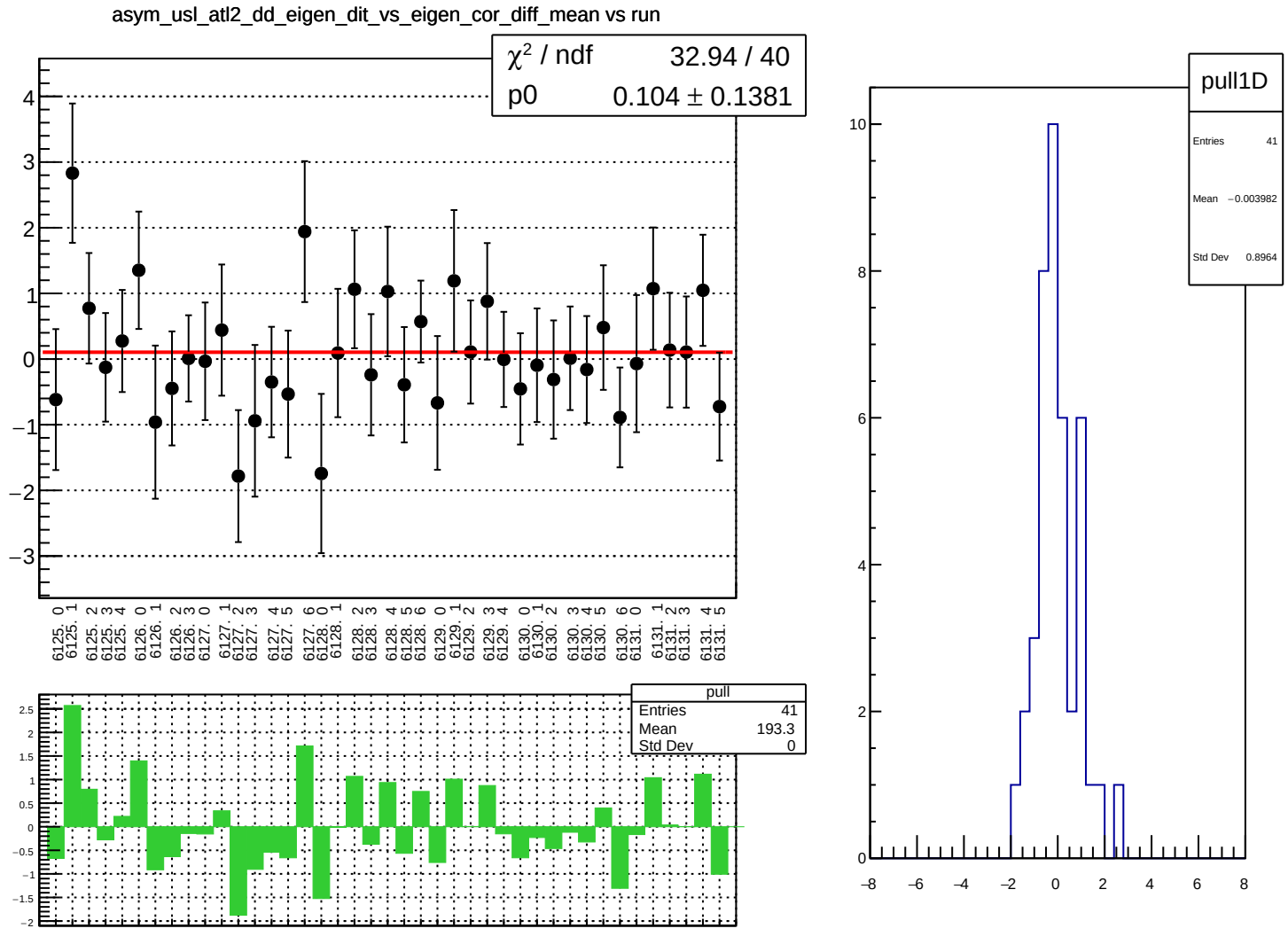

pull1D
Entries 41
Mean 0.005454
Std Dev 0.836

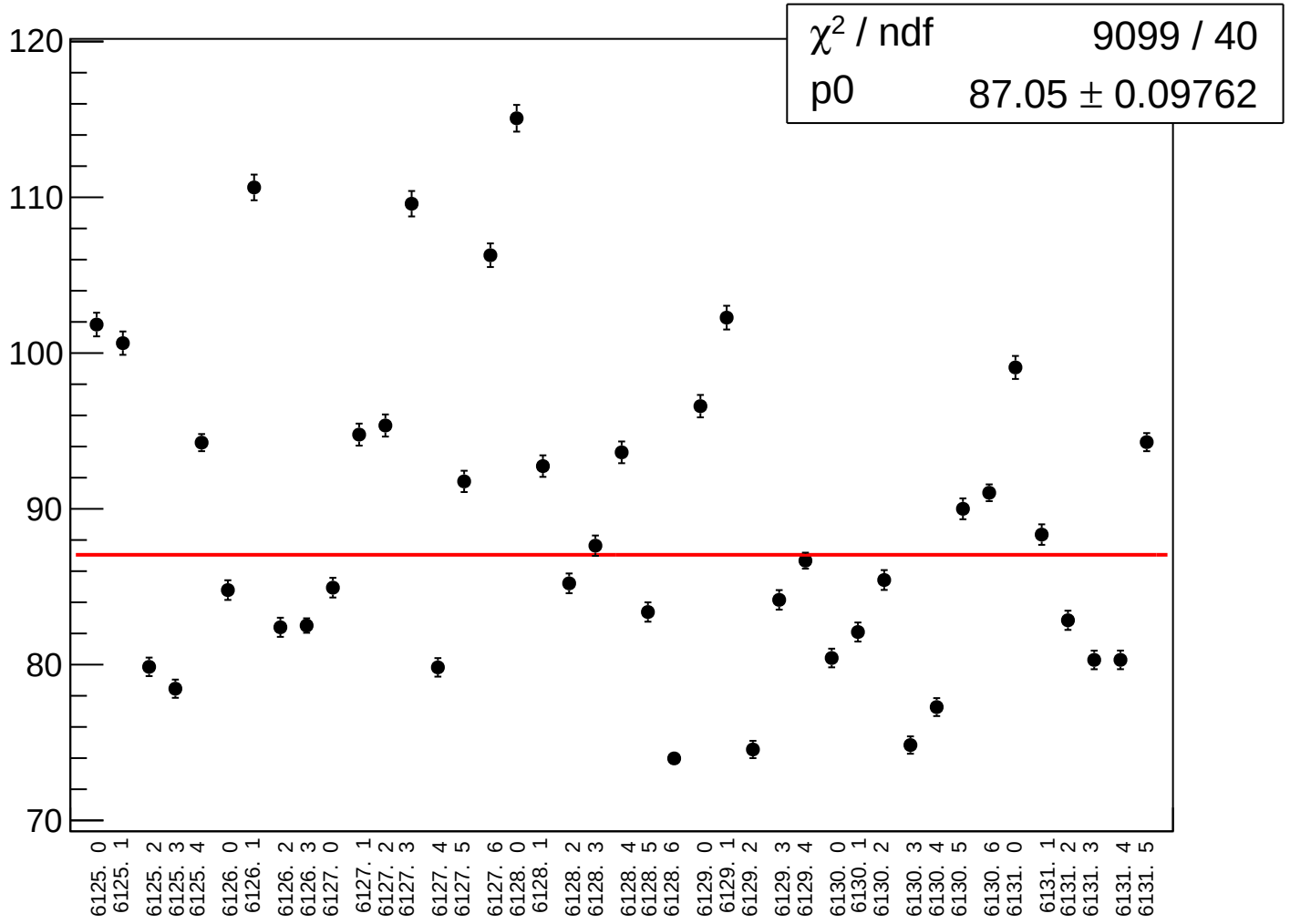

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2680 / 40
p0 0.008696 ± 9.713e−06
0.01
0.0095
0.009
0.0085
0.008
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

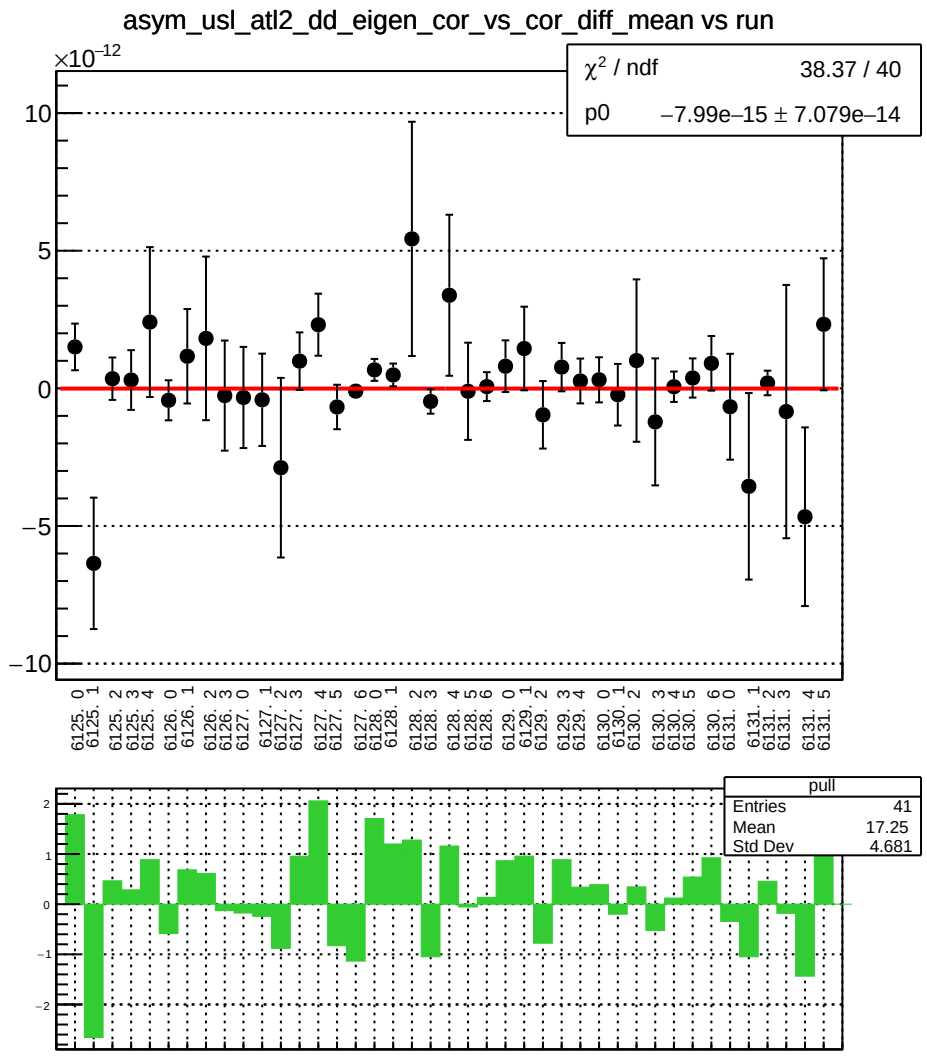

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 32.94 / 40
p0 0.104 ± 0.1381
pull
Entries 41
Mean 193.3
Std Dev 0

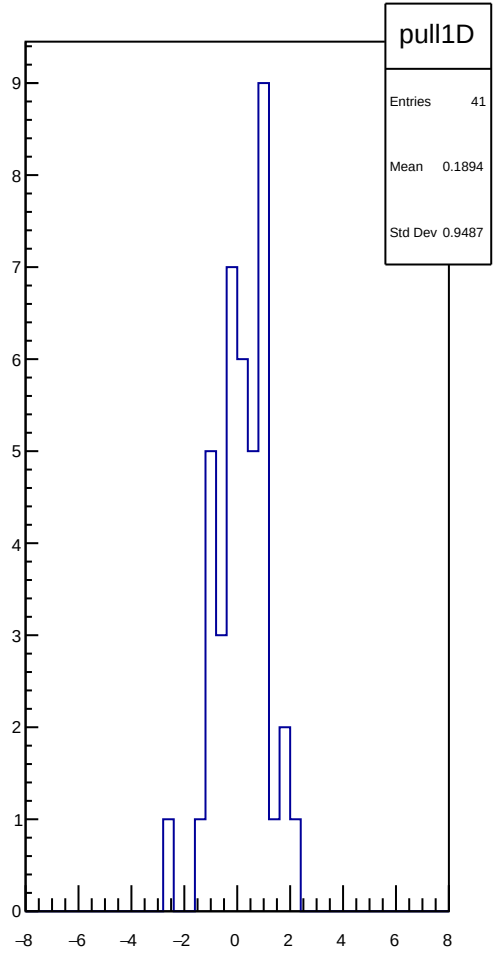

pull1D
Entries 41
Mean −0.003982
Std Dev 0.8964

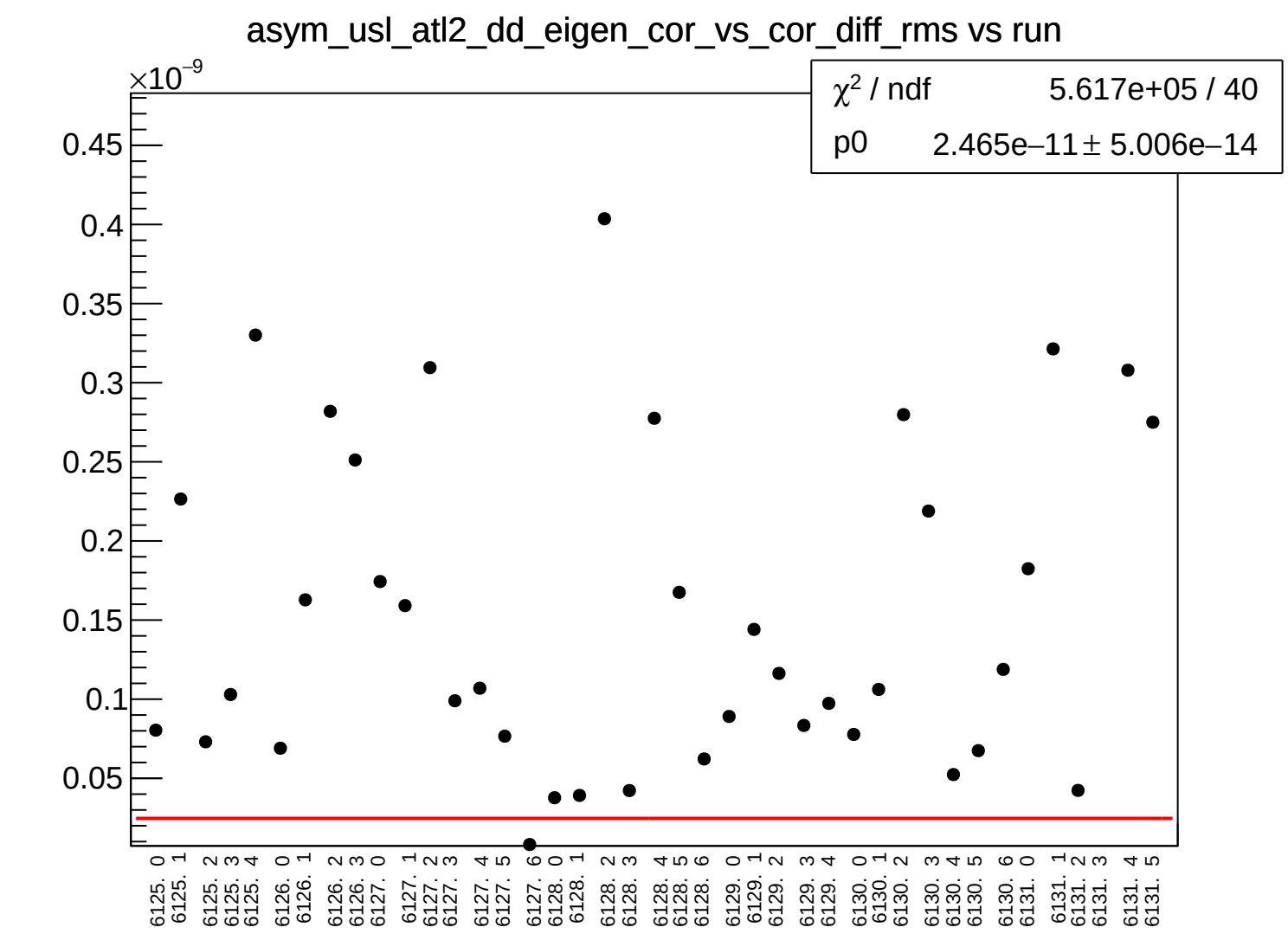

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9099 / 40
p0 87.05 ± 0.09762
120
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

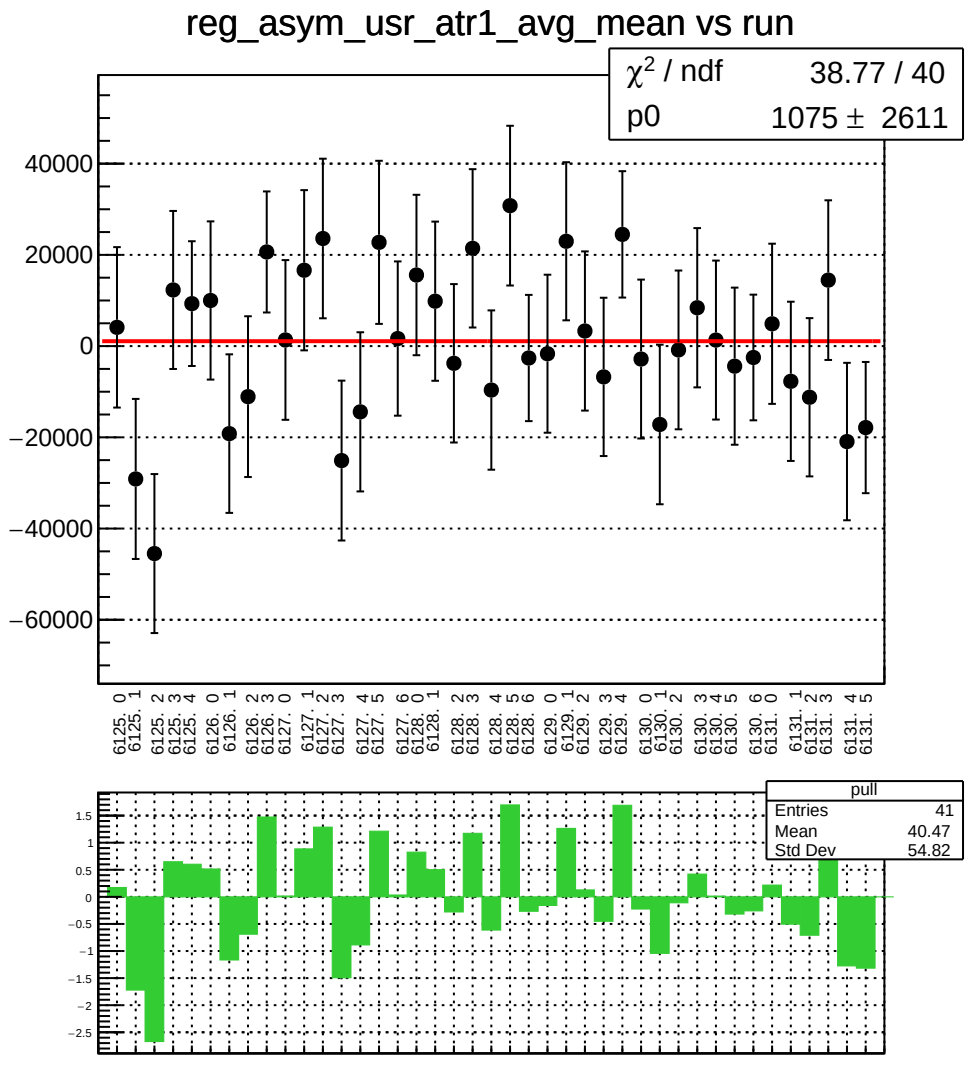

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.94 / 40
p0 0.104 ± 0.1381
pull
Entries 41
Mean 193.3
Std Dev 0
pull1D
Entries 41
Mean −0.003982
Std Dev 0.8964

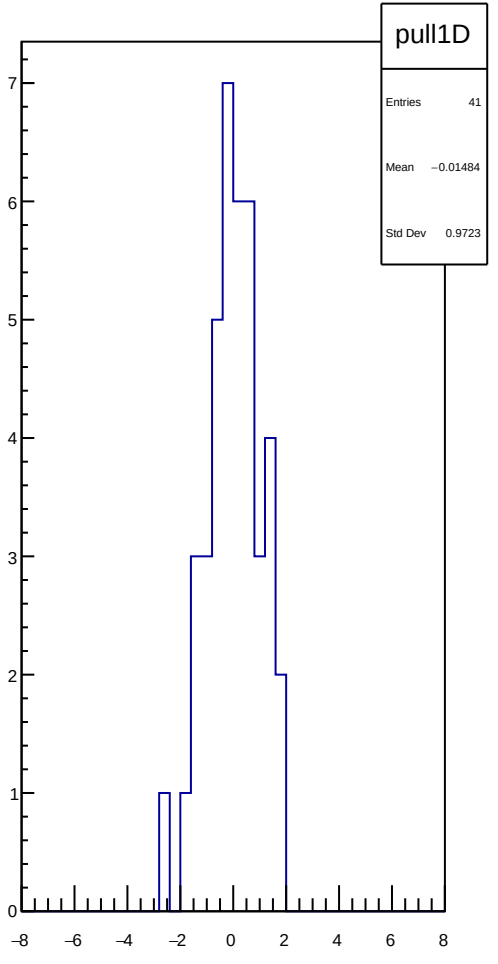

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9099 / 40
p0 87.05 ± 0.09762
120
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

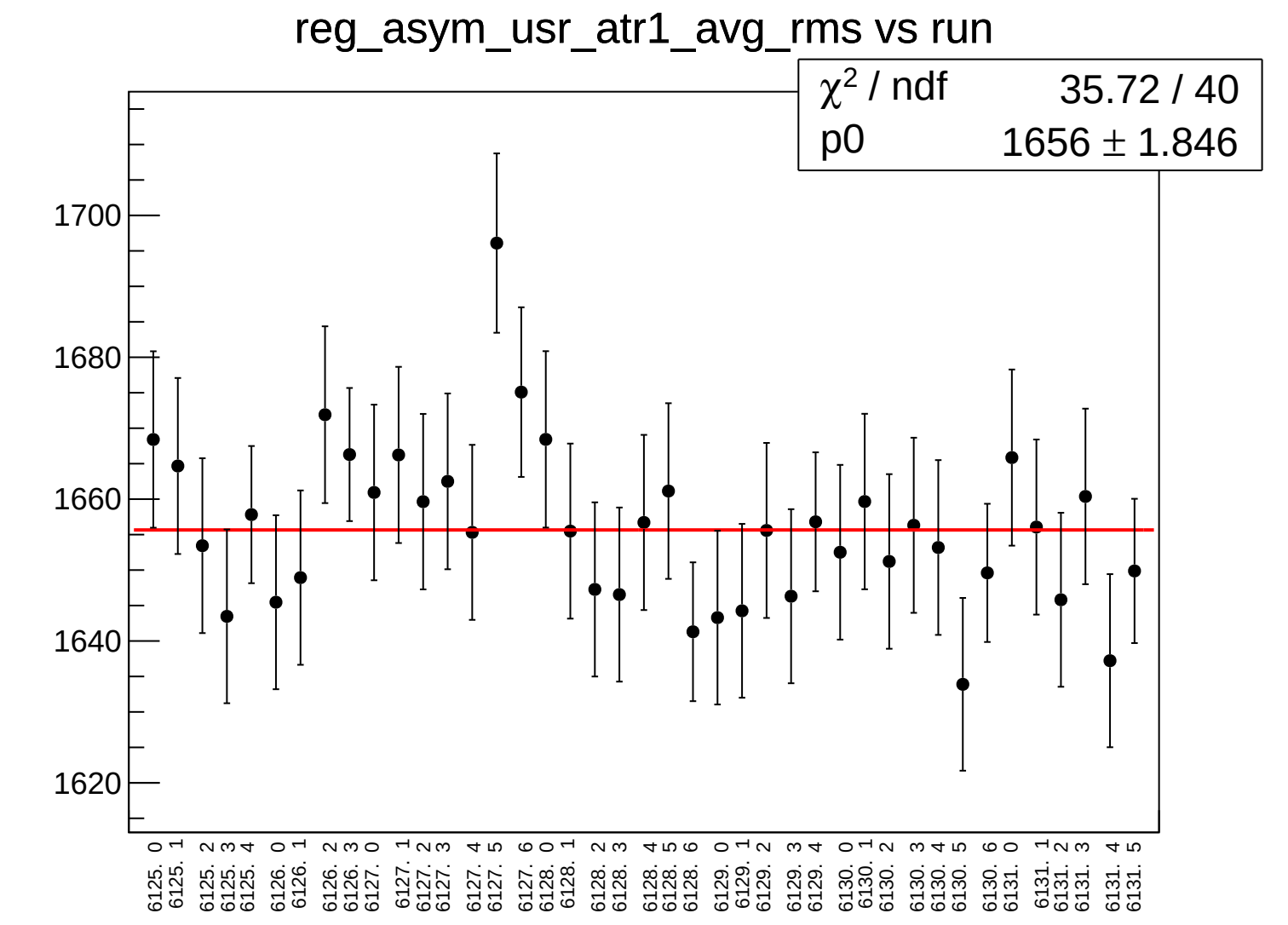

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.37 / 40
p0 −7.99e−15 ± 7.079e−14
10
5
0
−5
−10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 17.25
Std Dev 4.681
2
1
0
−1
−2

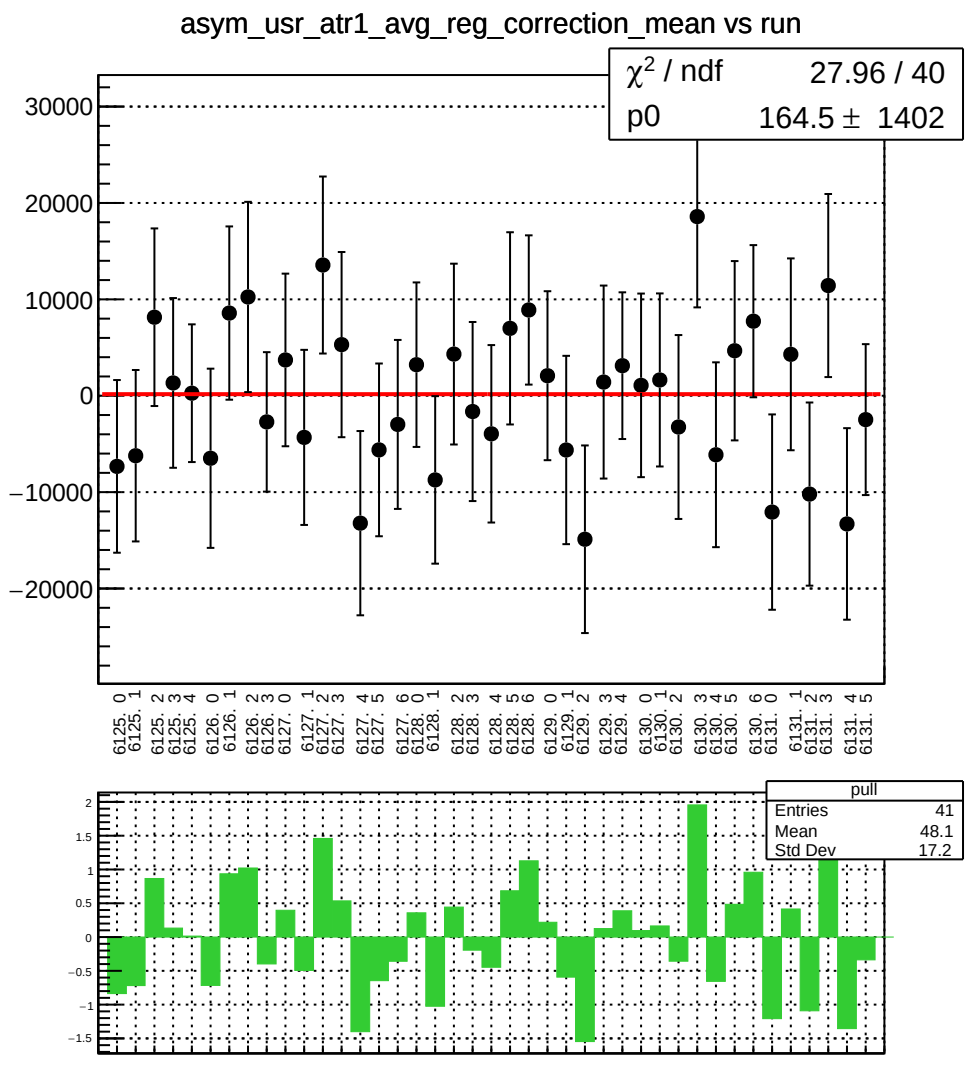

pull1D
Entries 41
Mean 0.1894
Std Dev 0.9487
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

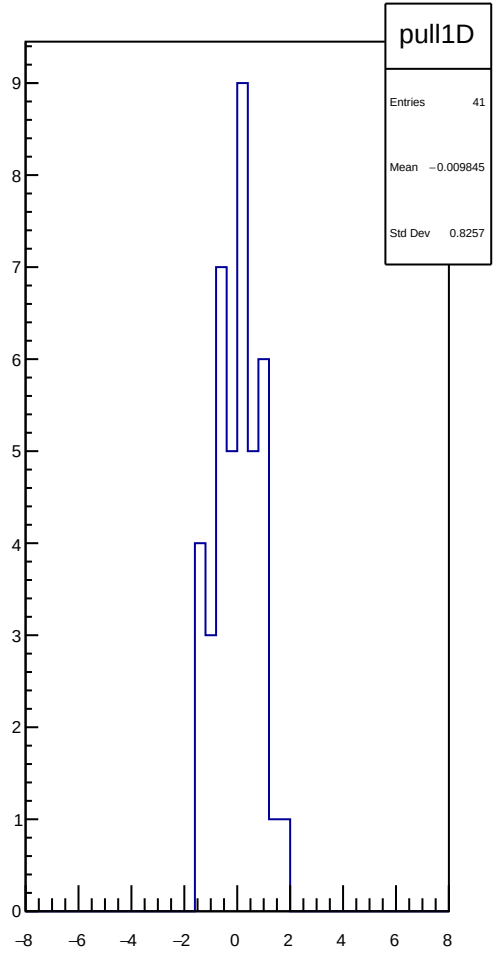

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.617e+05 / 40
p0 2.465e−11 ± 5.006e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

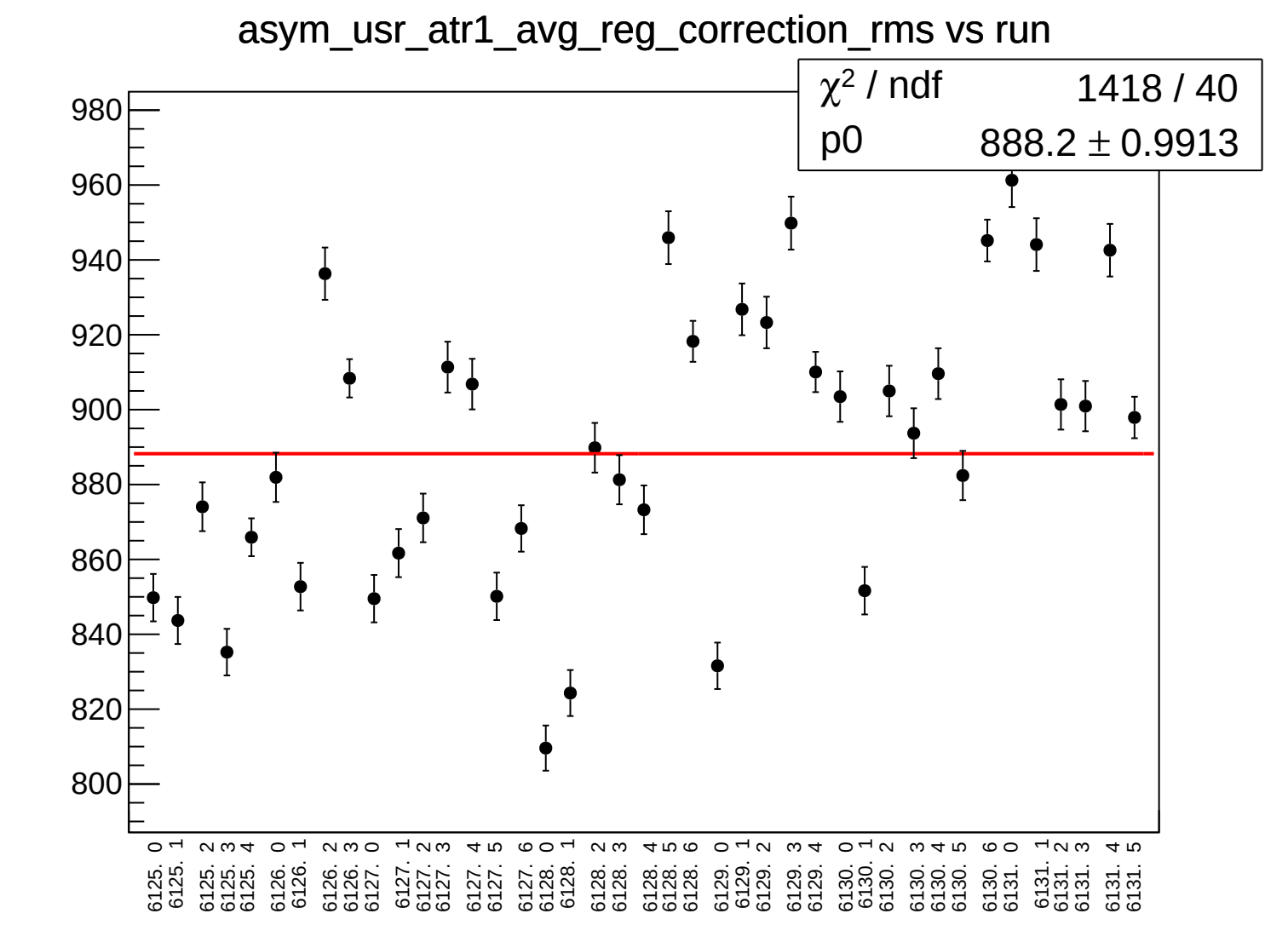

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 38.77 / 40
p0 1075 ± 2611
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 40.47
Std Dev 54.82
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

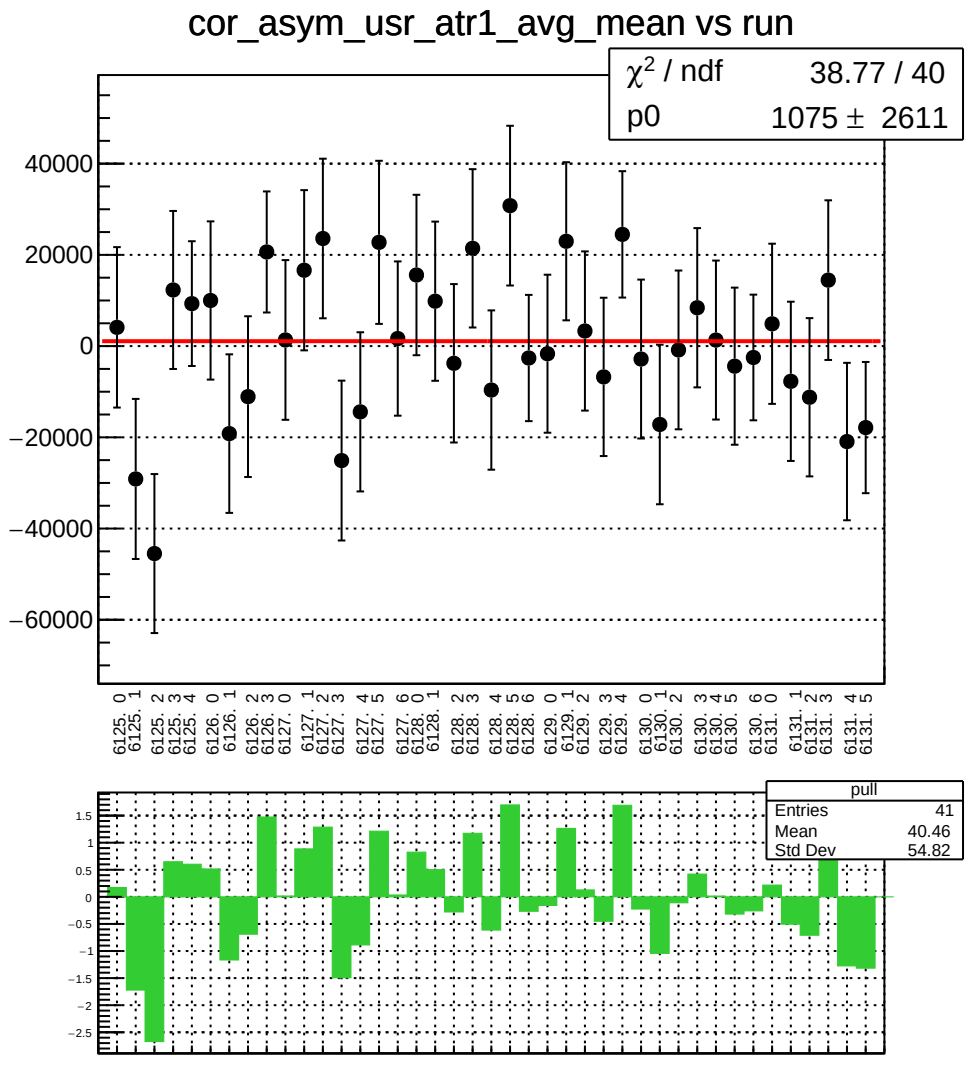

pull1D
Entries 41
Mean −0.01484
Std Dev 0.9723
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

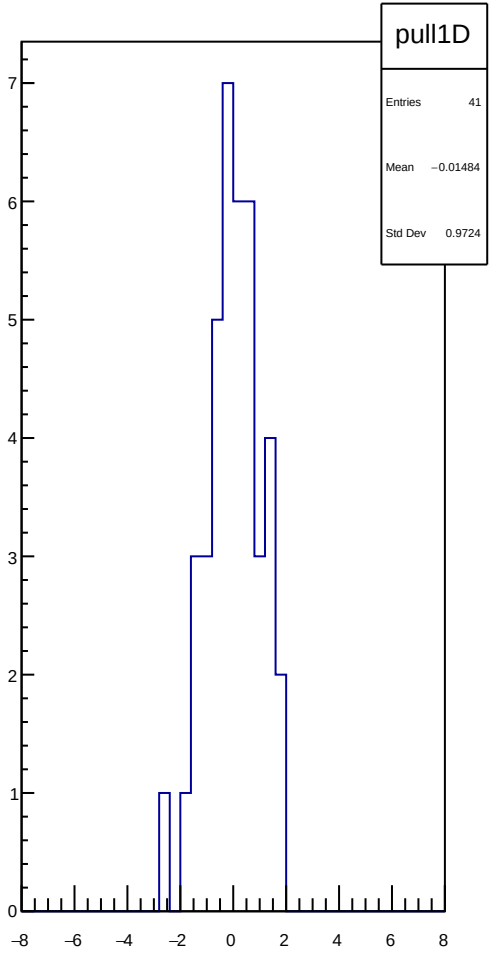

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 35.72 / 40
p0 1656 ± 1.846
1700
1680
1660
1640
1620
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 27.96 / 40
p0 164.5 ± 1402
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 48.1
Std Dev 17.2
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.009845
Std Dev 0.8257
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 1418 / 40
p0 888.2 ± 0.9913
980
960
940
920
900
880
860
840
820
800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 38.77 / 40
p0 1075 ± 2611
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 40.46
Std Dev 54.82
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 41
Mean −0.01484
Std Dev 0.9724
7
6
5
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−4
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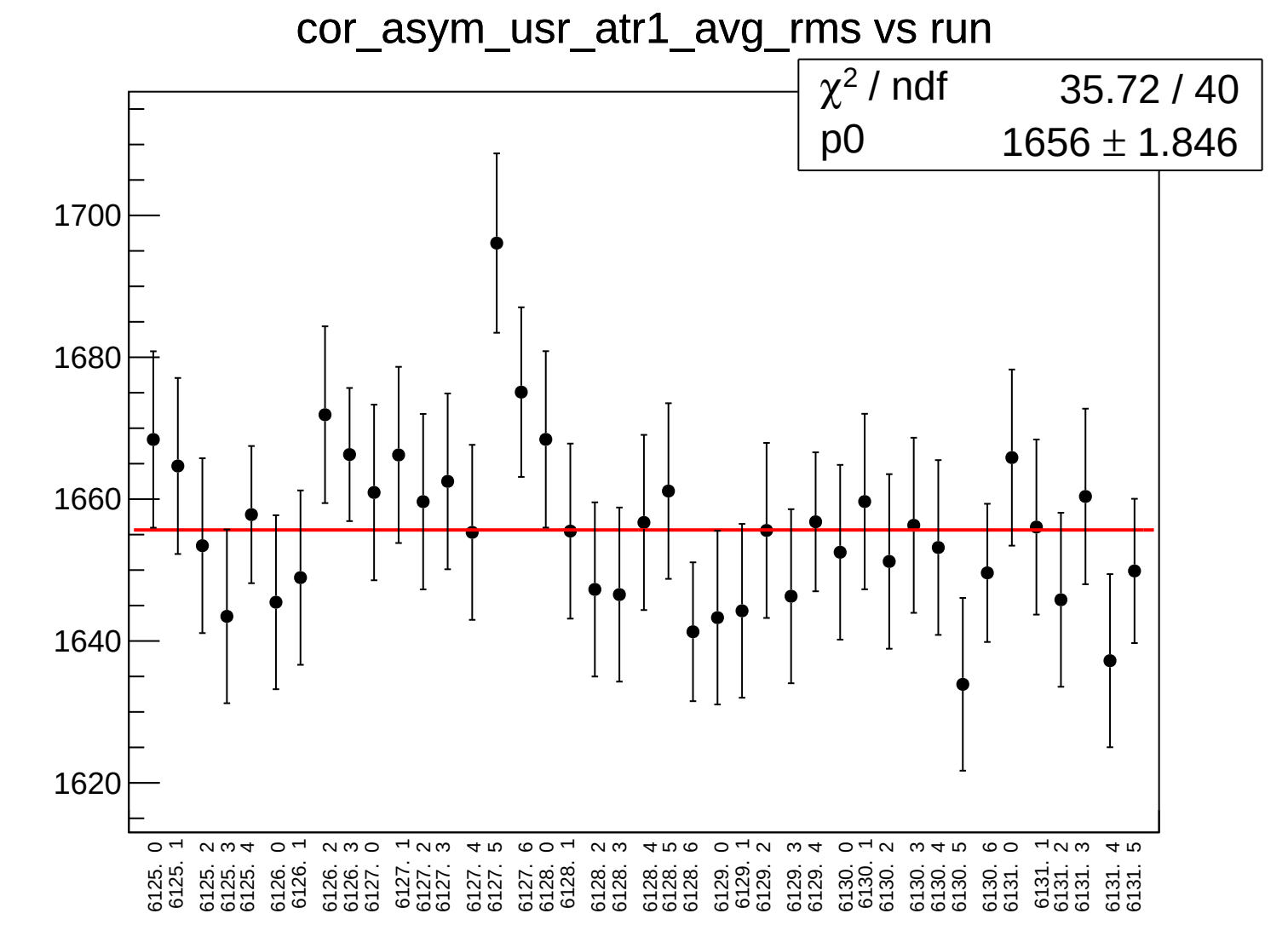
cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 35.72 / 40
p0 1656 ± 1.846
1700
1680
1660
1640
1620
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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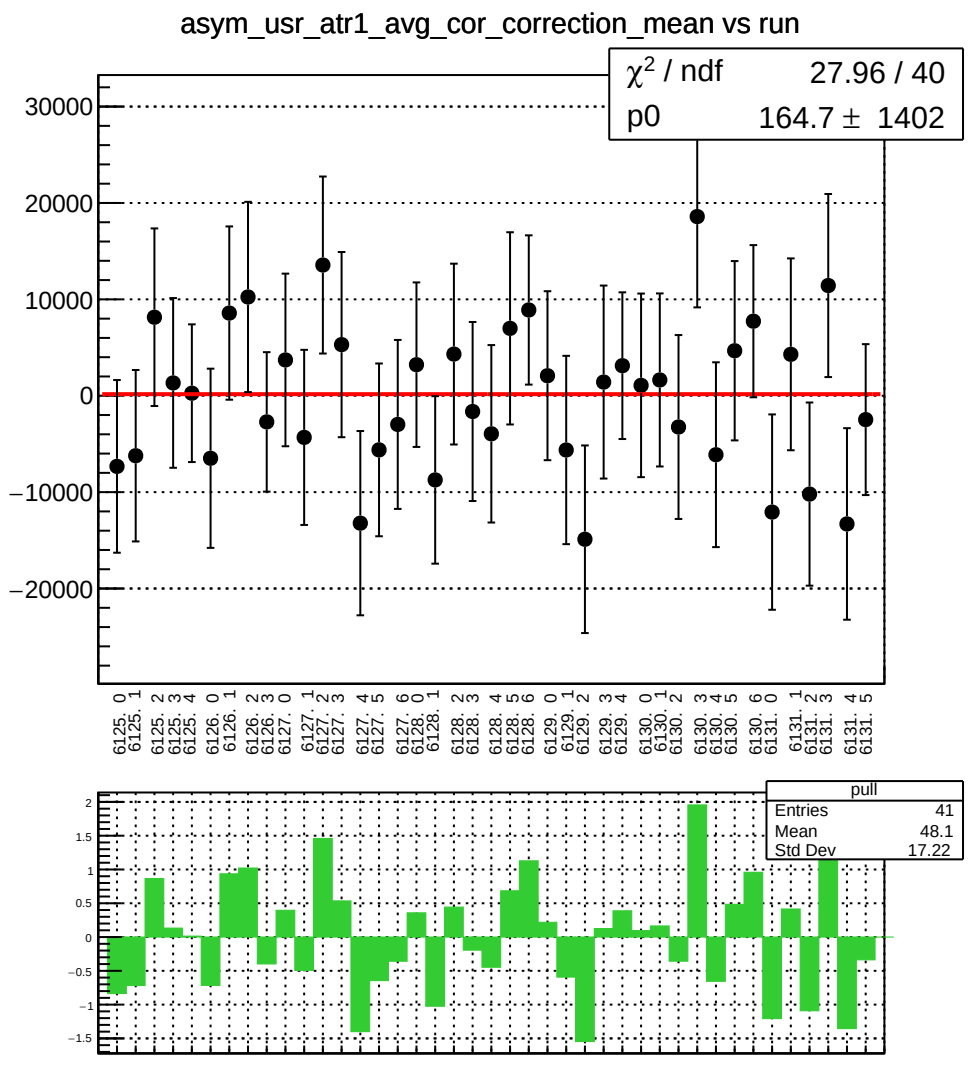
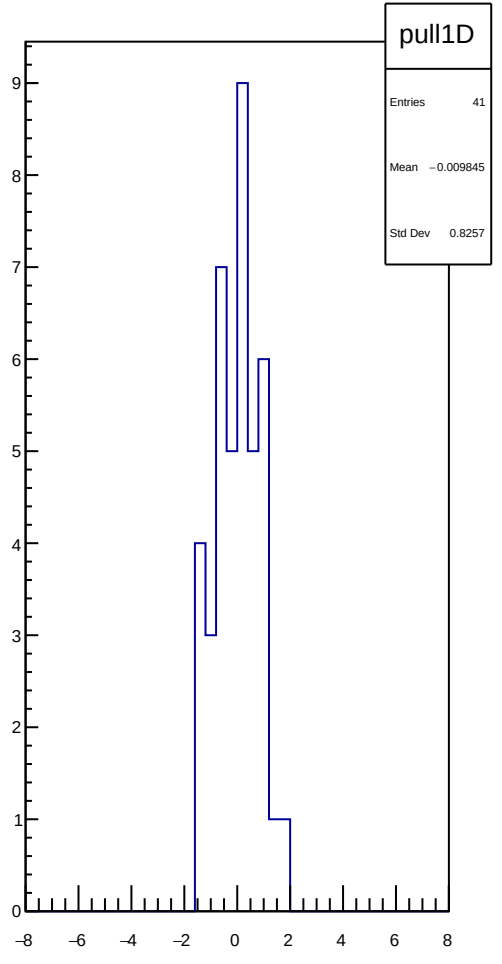
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 27.96 / 40
p0 164.7 ± 1402
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 48.1
Std Dev 17.22
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.009845
Std Dev 0.8257
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7
6
5
4
3
2
1
0
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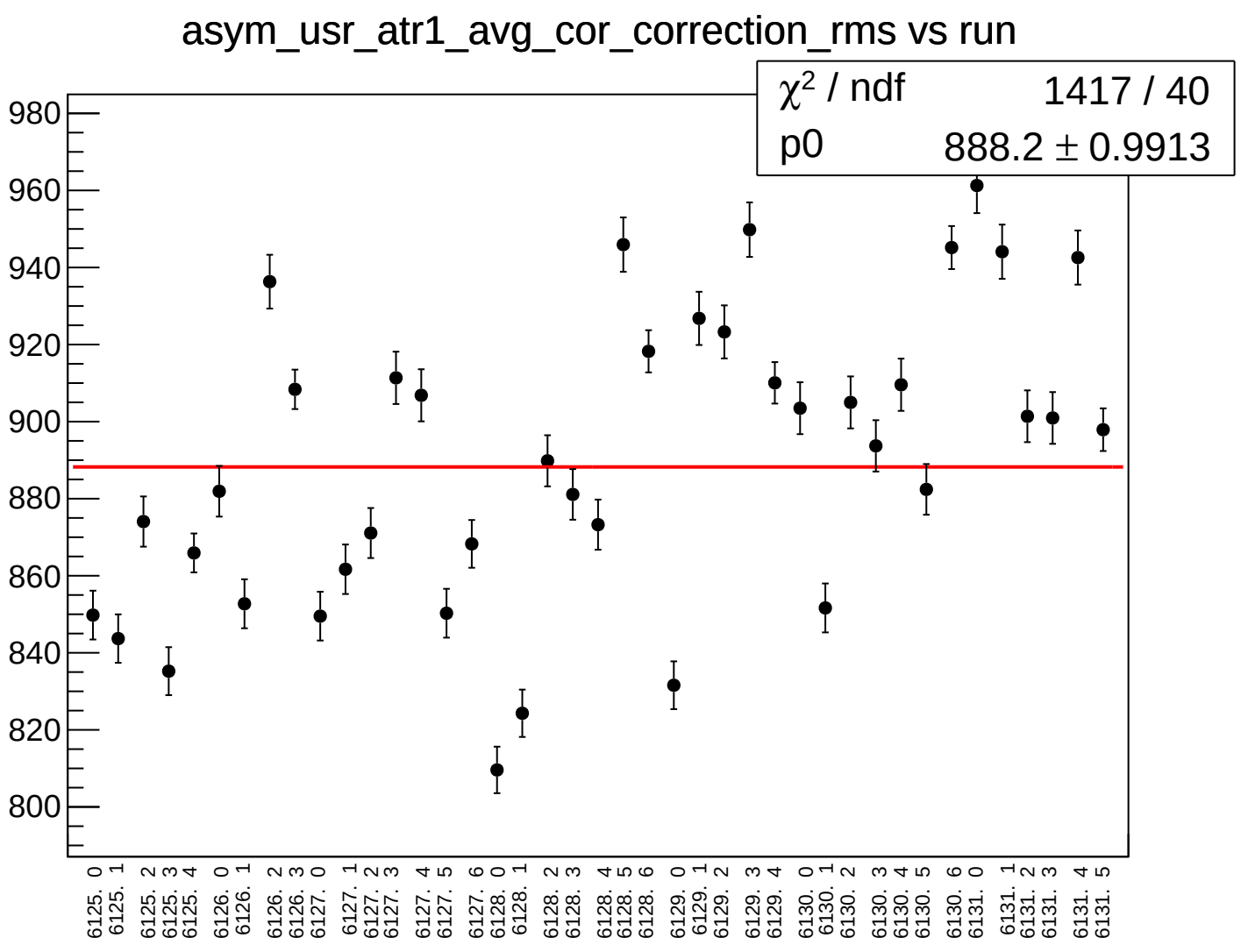
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 1417 / 40
p0 888.2 ± 0.9913
980
960
940
920
900
880
860
840
820
800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6131. 2
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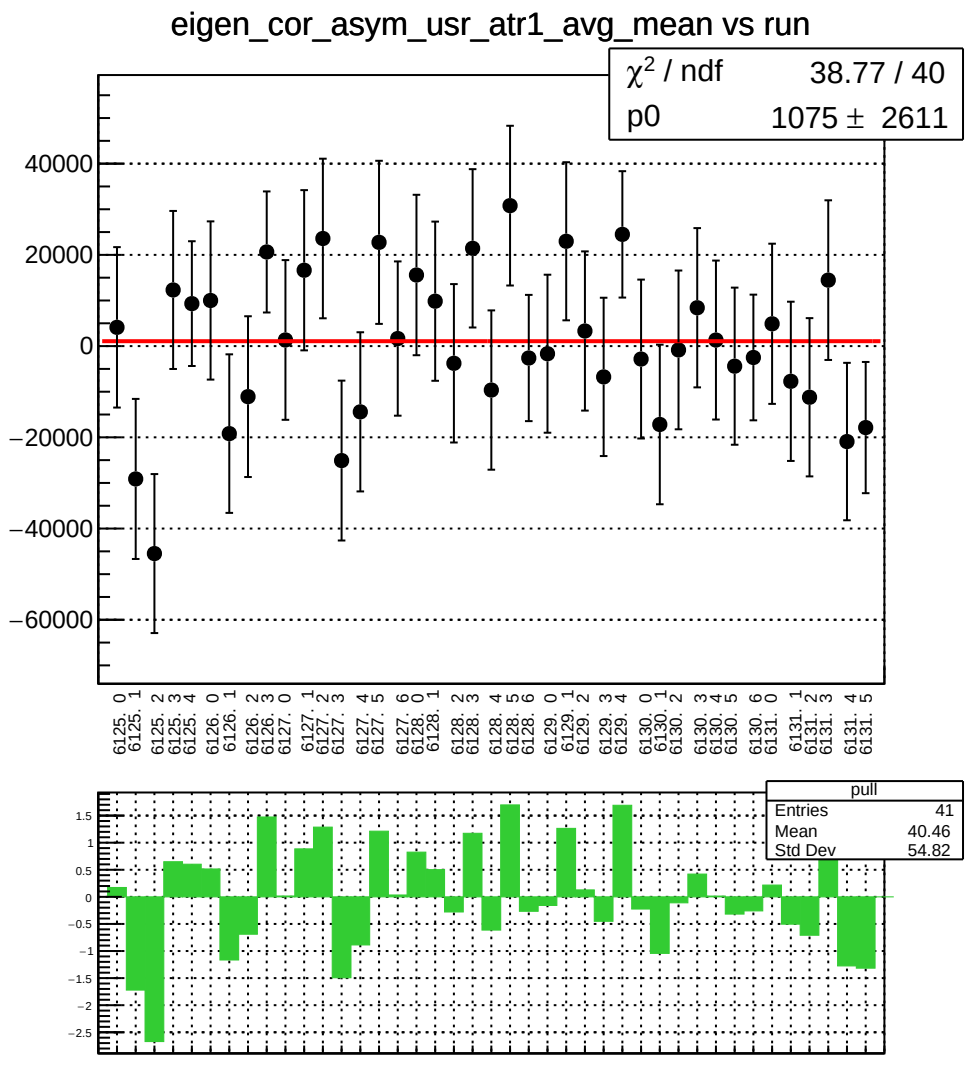
6131. 4
6131. 5


eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 38.77 / 40
p0 1075 ± 2611
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 40.46
Std Dev 54.82
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean −0.01484
Std Dev 0.9724
7
6
5
4
3
2
1
0
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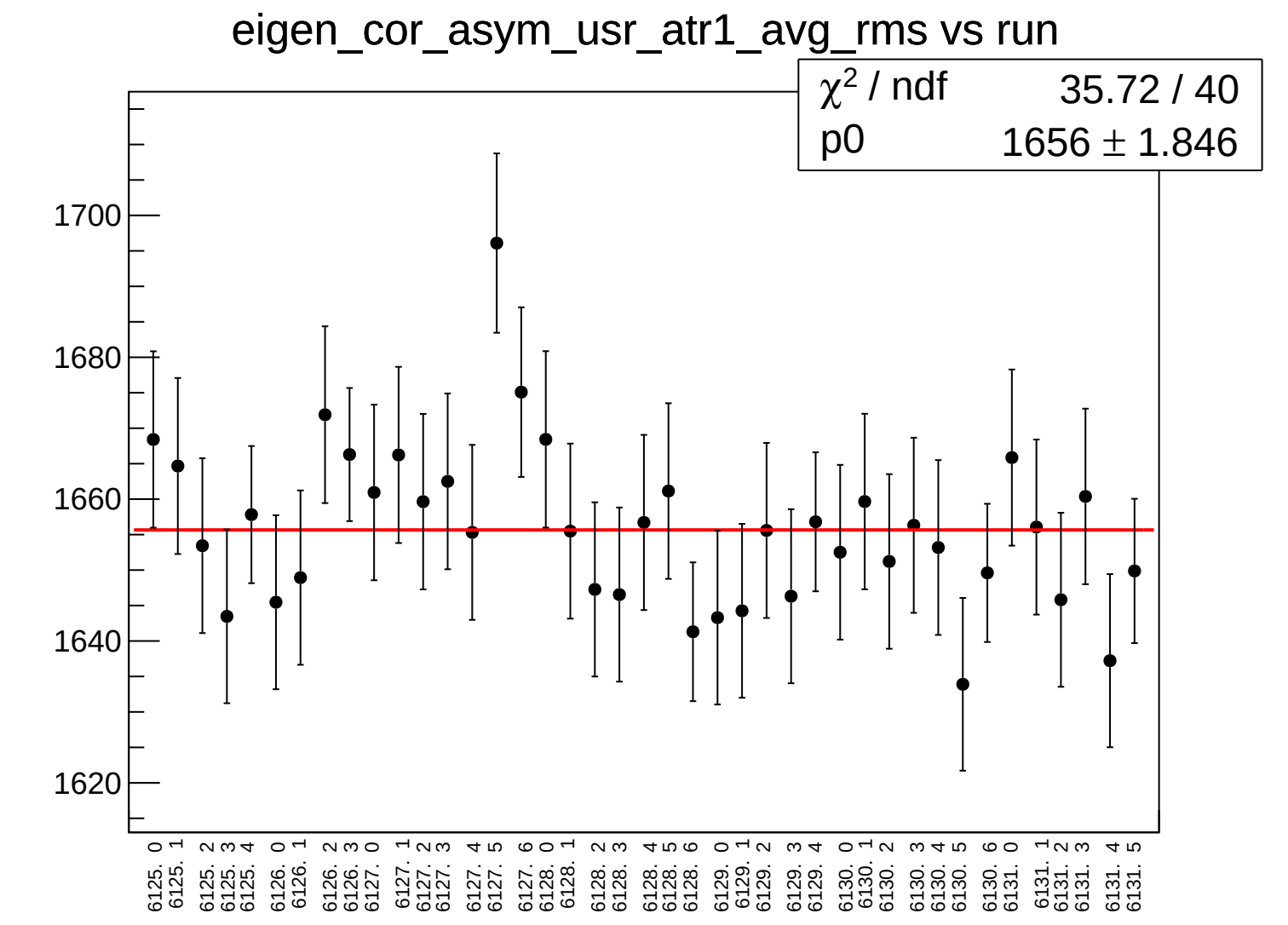
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 35.72 / 40
p0 1656 ± 1.846
1700
1680
1660
1640
1620
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
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6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6130. 5
6130. 6
6131. 0
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6131. 2
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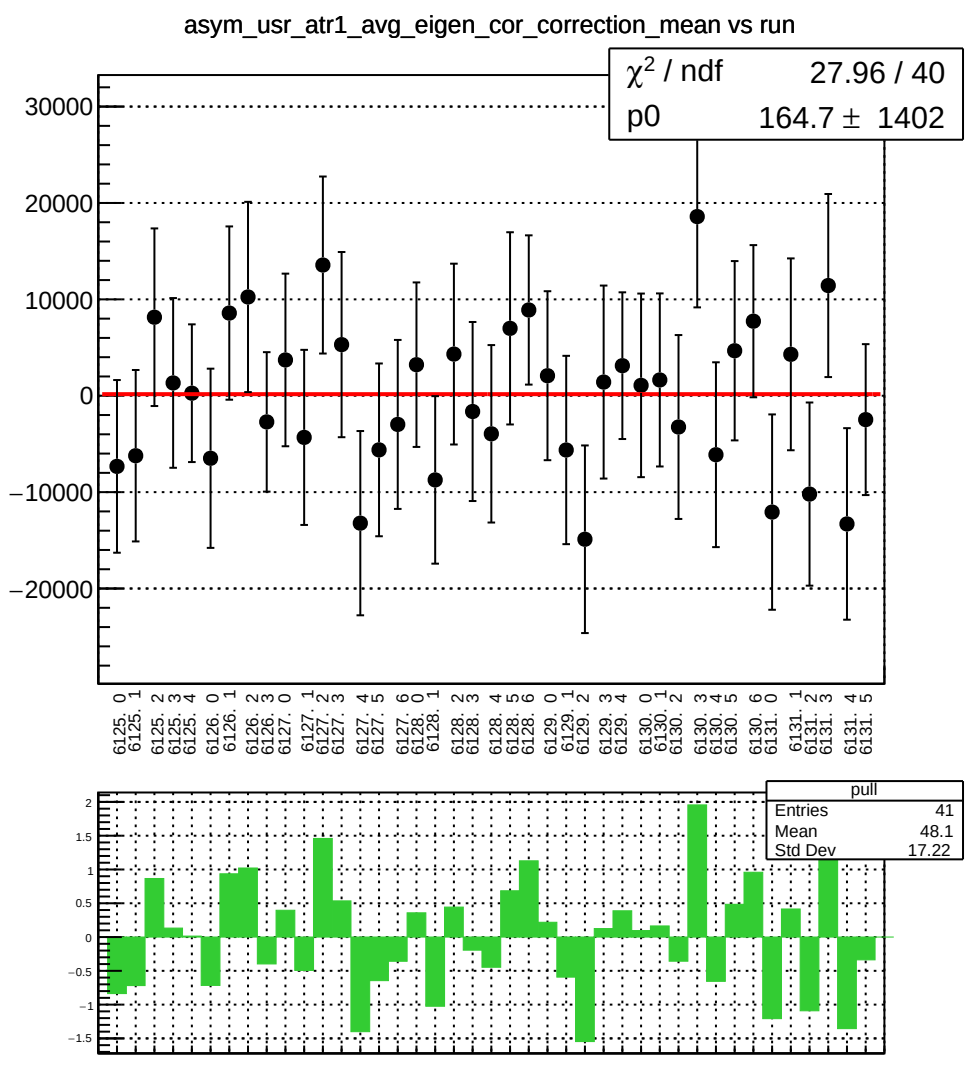
6131. 4
6131. 5


asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 27.96 / 40
p0 164.7 ± 1402
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
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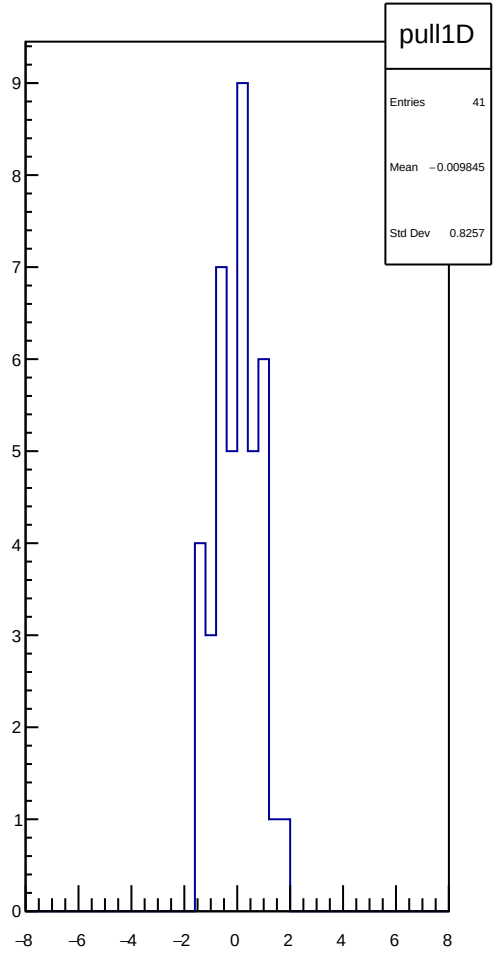
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 48.1
Std Dev 17.22
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.009845
Std Dev 0.8257
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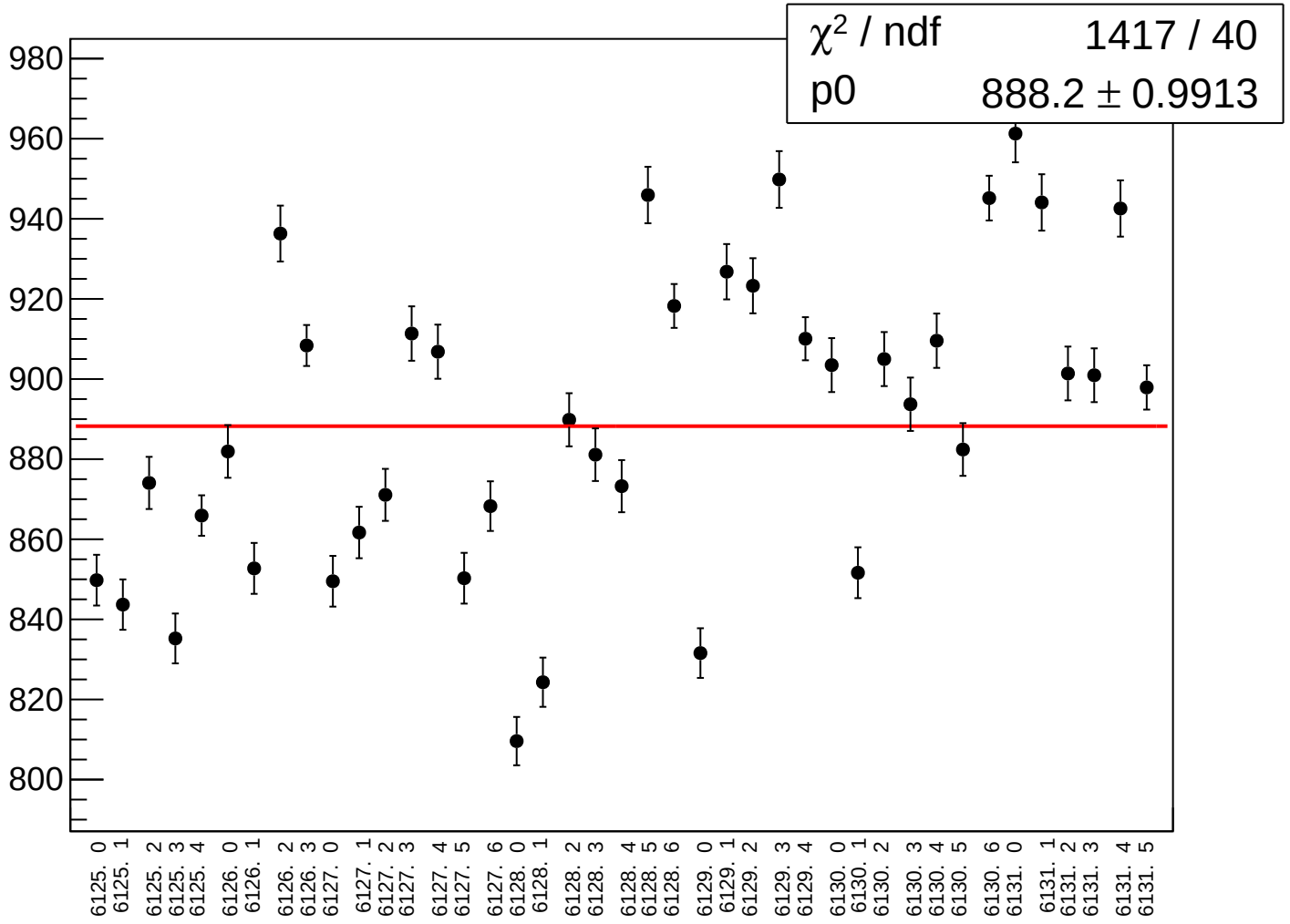
asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1417 / 40
p0 888.2 ± 0.9913
980
960
940
920
900
880
860
840
820
800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
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6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6130. 5
6130. 6
6131. 0
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6131. 2
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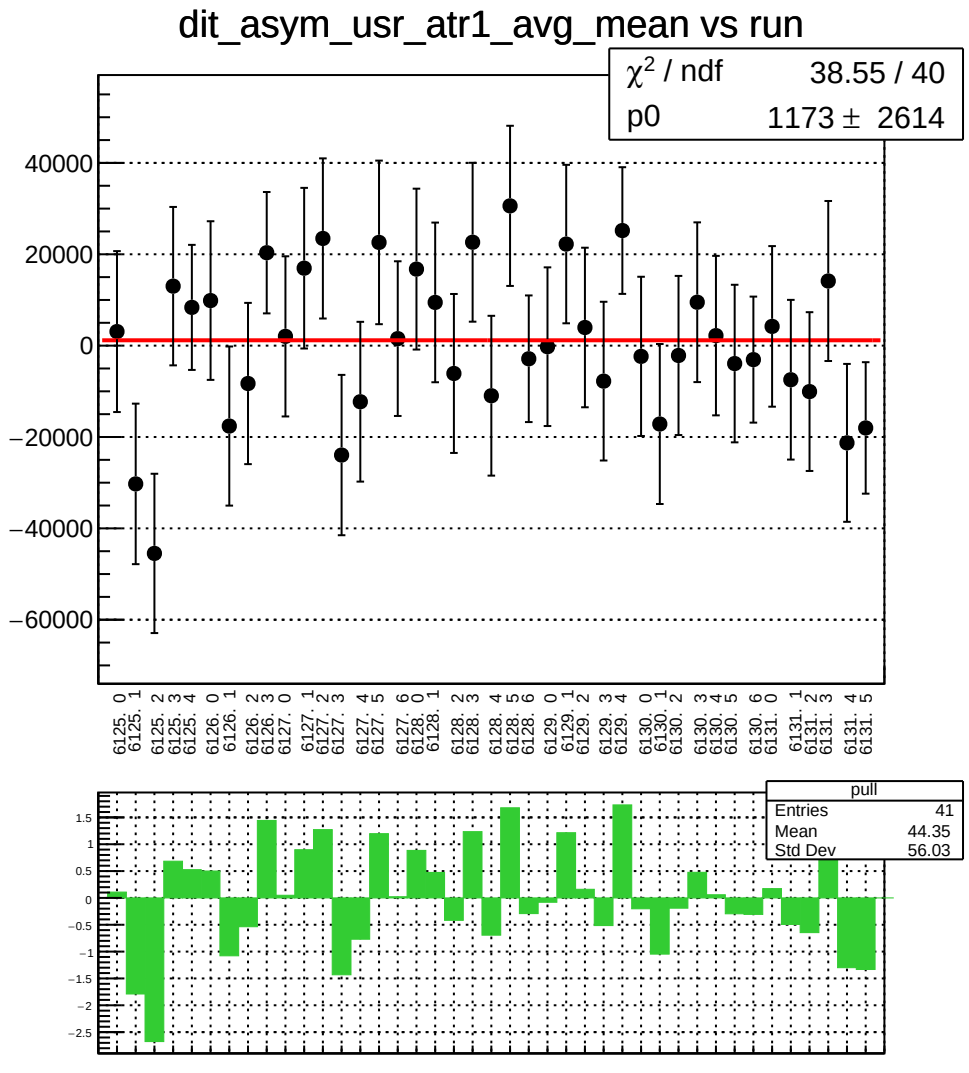
6131. 5


dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 38.55 / 40
p0 1173 ± 2614
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6127. 4
6127. 5
6127. 6
6128. 0
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6128. 2
6128. 3
6128. 4
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6129. 0
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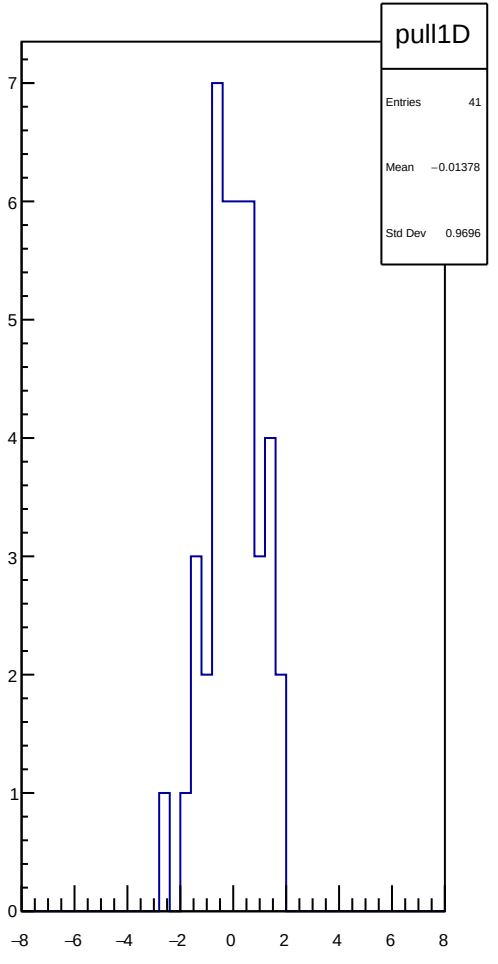
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 44.35
Std Dev 56.03
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 41
Mean −0.01378
Std Dev 0.9696
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6
5
4
3
2
1
0
−8
−6
−4
−2
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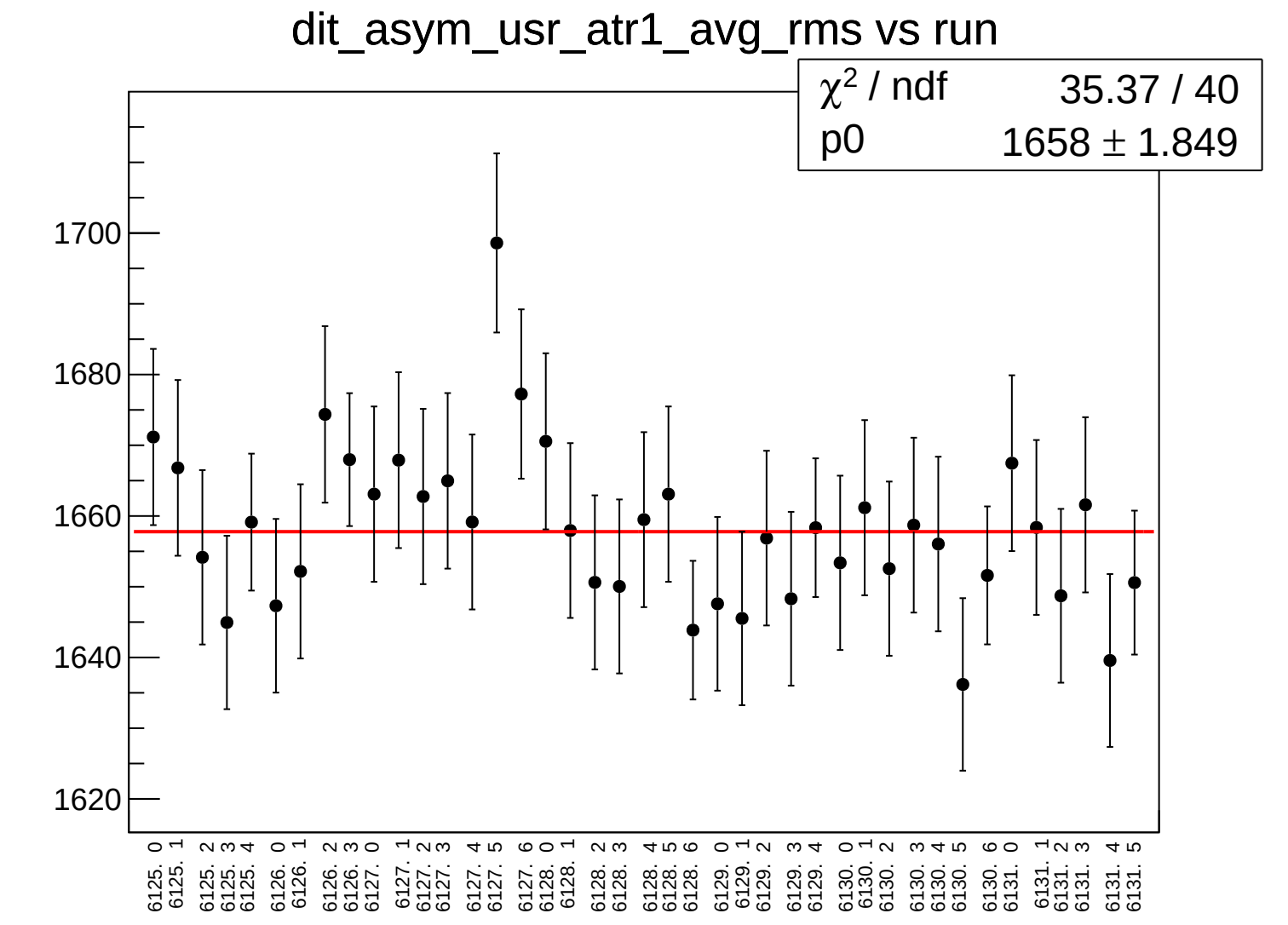
2
4
6
8


dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 35.37 / 40
p0 1658 ± 1.849
1700
1680
1660
1640
1620
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
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6127. 0
6127. 1
6127. 2
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6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
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6130. 0
6130. 1
6130. 2
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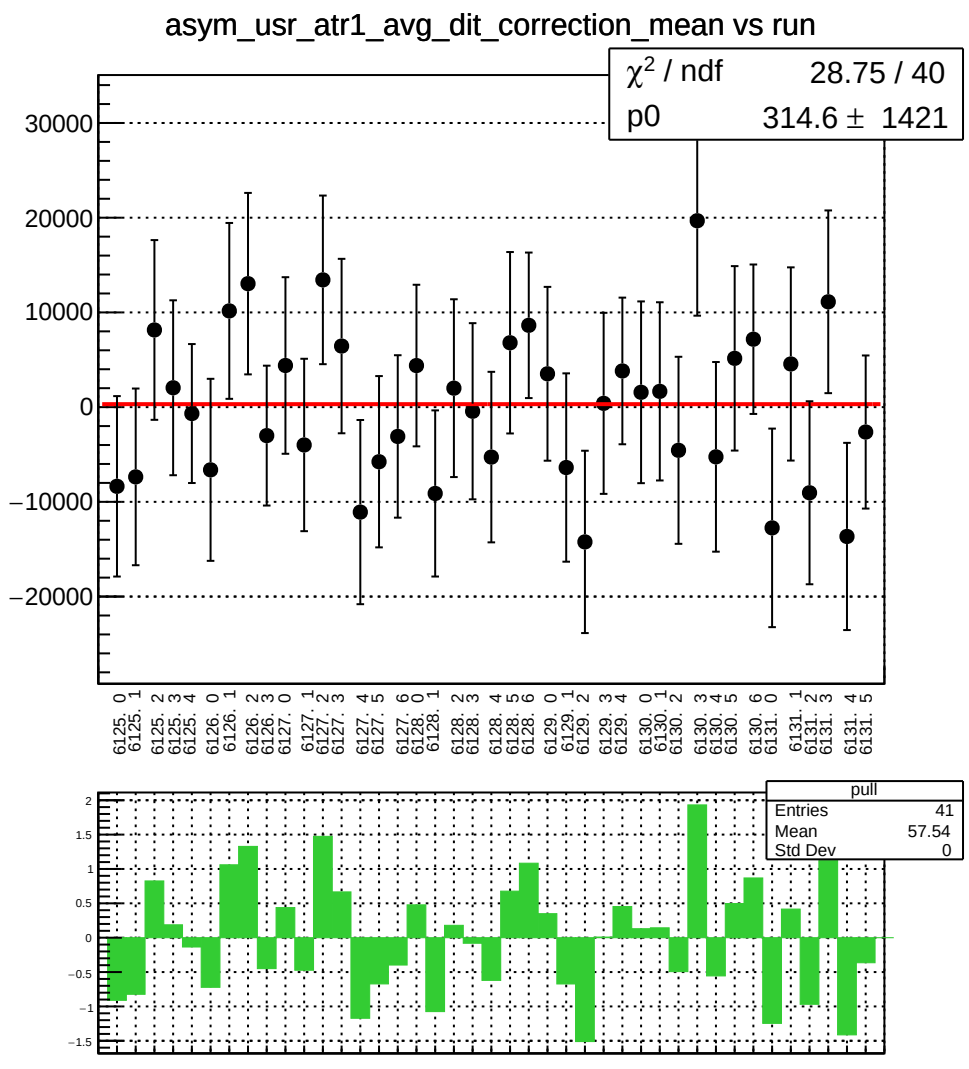
6131. 5


asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 28.75 / 40
p0 314.6 ± 1421
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
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6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 57.54
Std Dev 0
2
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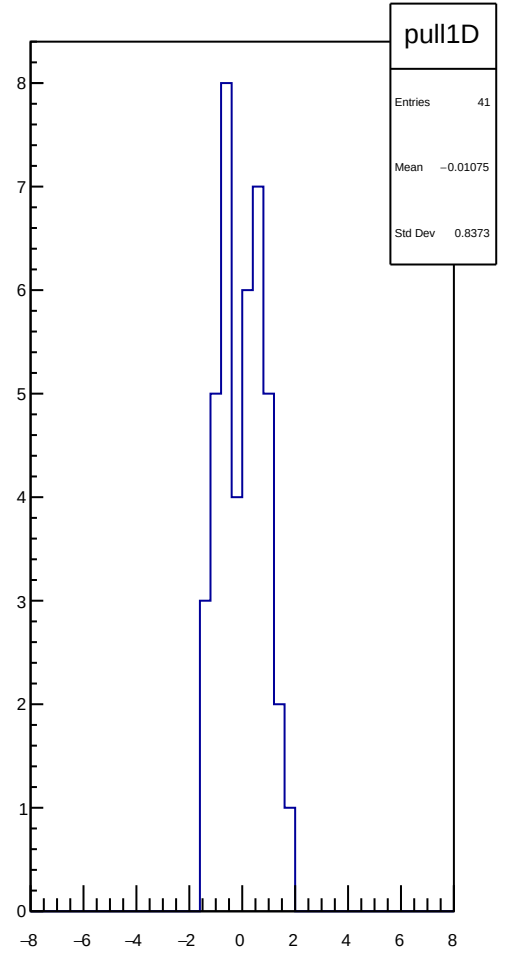
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.01075
Std Dev 0.8373
8
7
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5
4
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−4
−2
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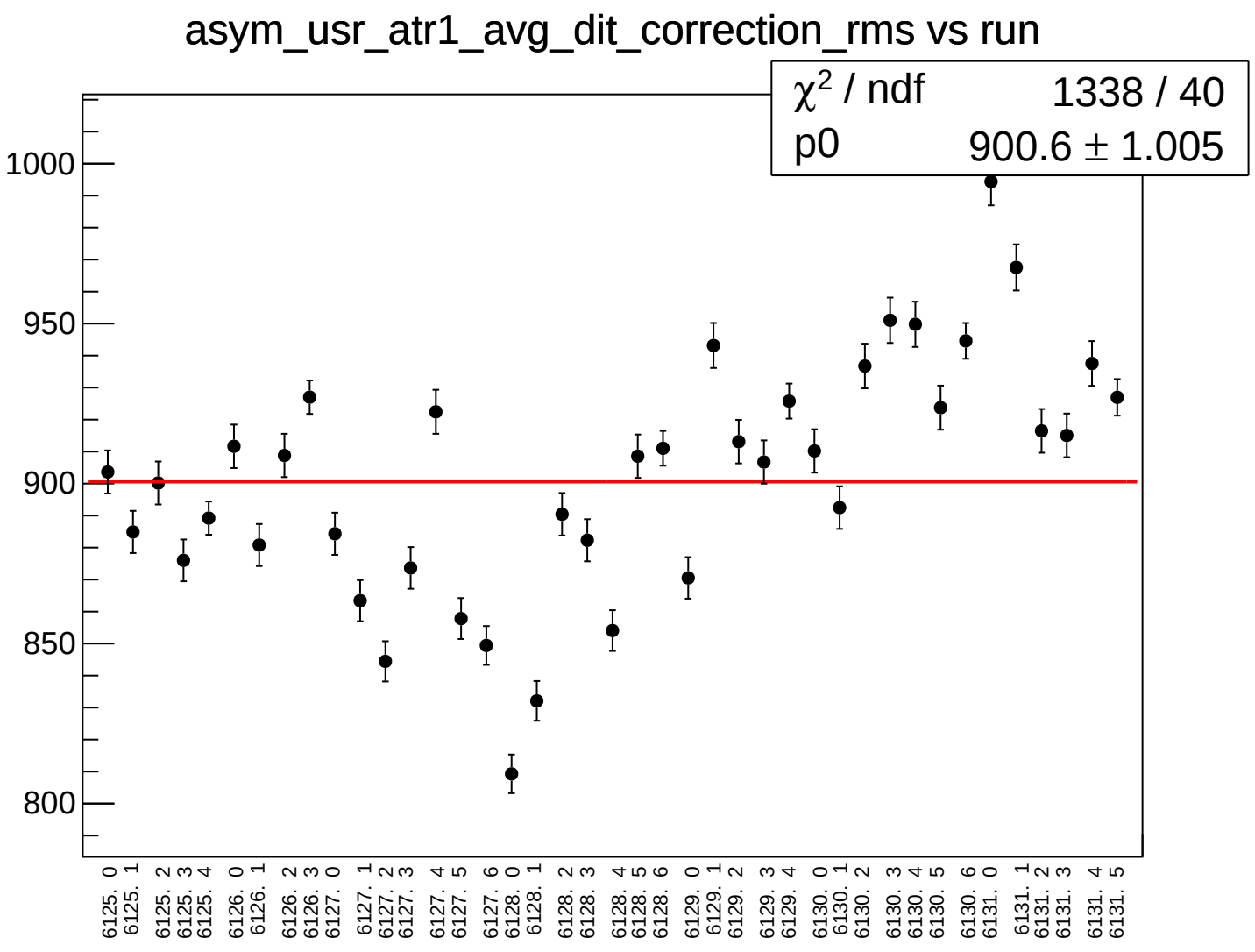
2
4
6
8


asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 1338 / 40
p0 900.6 ± 1.005
1000
950
900
850
800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
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6127. 6
6128. 0
6128. 1
6128. 2
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6129. 0
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6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6131. 0
6131. 1
6131. 2
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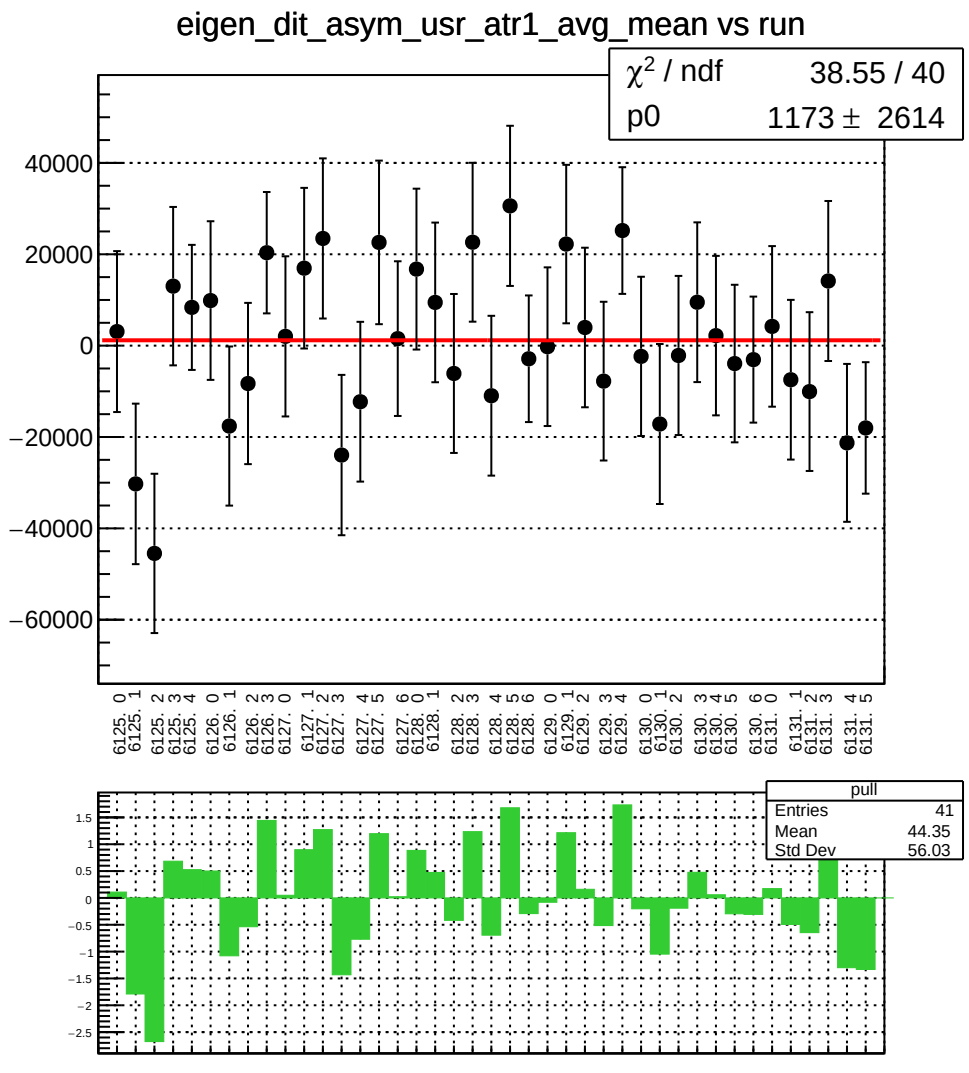
6131. 4
6131. 5


eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 38.55 / 40
p0 1173 ± 2614
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
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6130. 0
6130. 1
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6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 44.35
Std Dev 56.03
1.5
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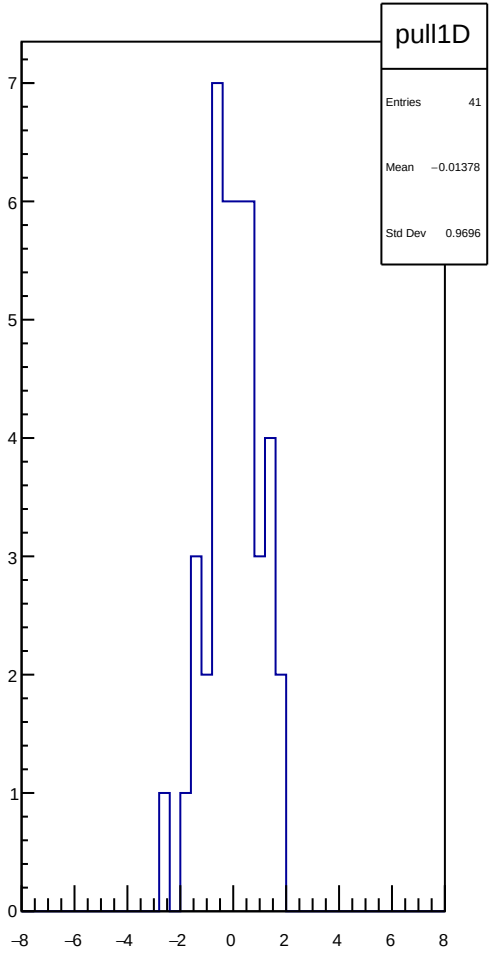
−1.5
−2
−2.5


pull1D
Entries 41
Mean −0.01378
Std Dev 0.9696
7
6
5
4
3
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0
−8
−6
−4
−2
0
2
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6
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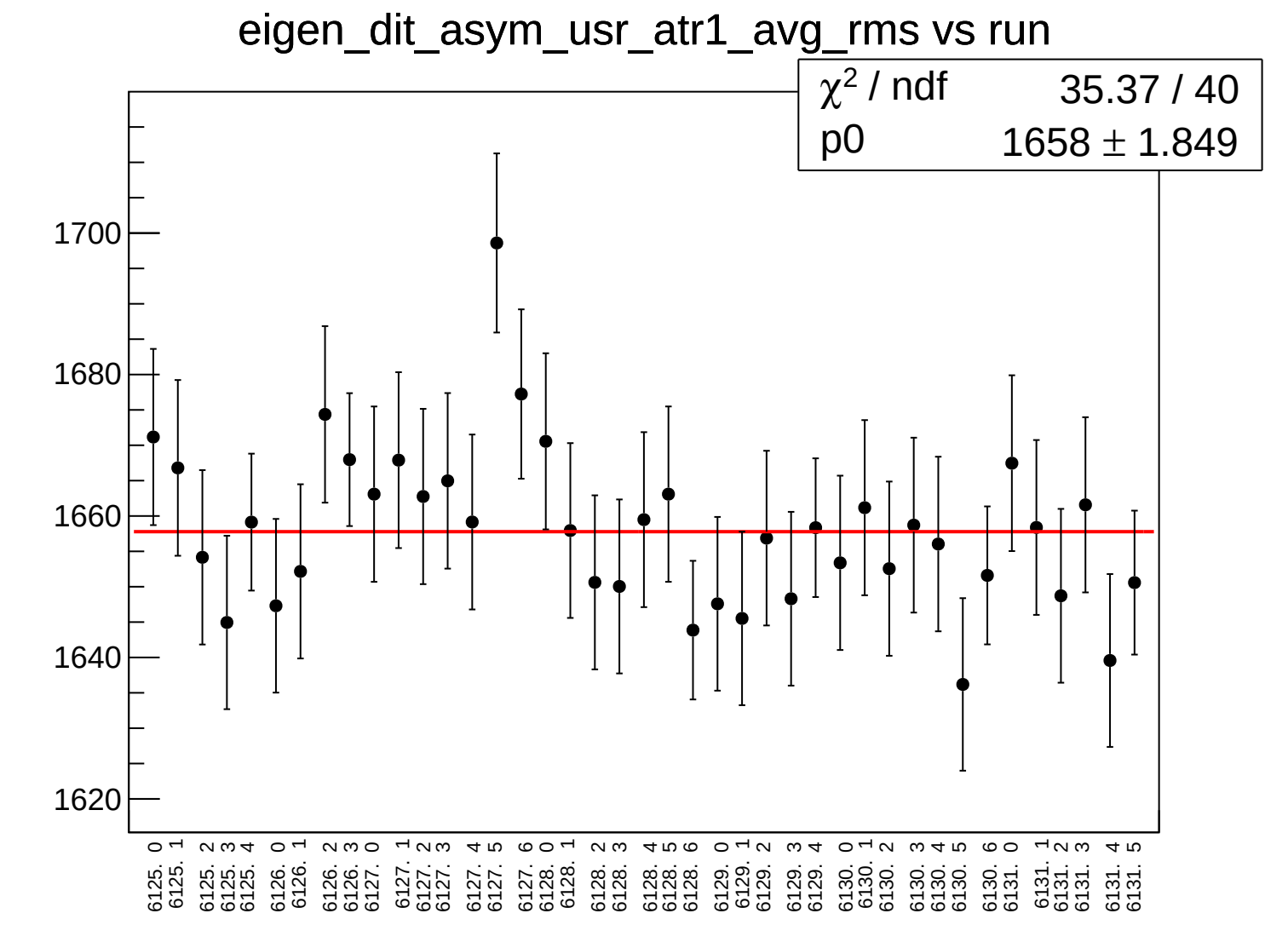
eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 35.37 / 40
p0 1658 ± 1.849
1700
1680
1660
1640
1620
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
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6127. 6
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6128. 2
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6128. 4
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6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
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6130. 1
6130. 2
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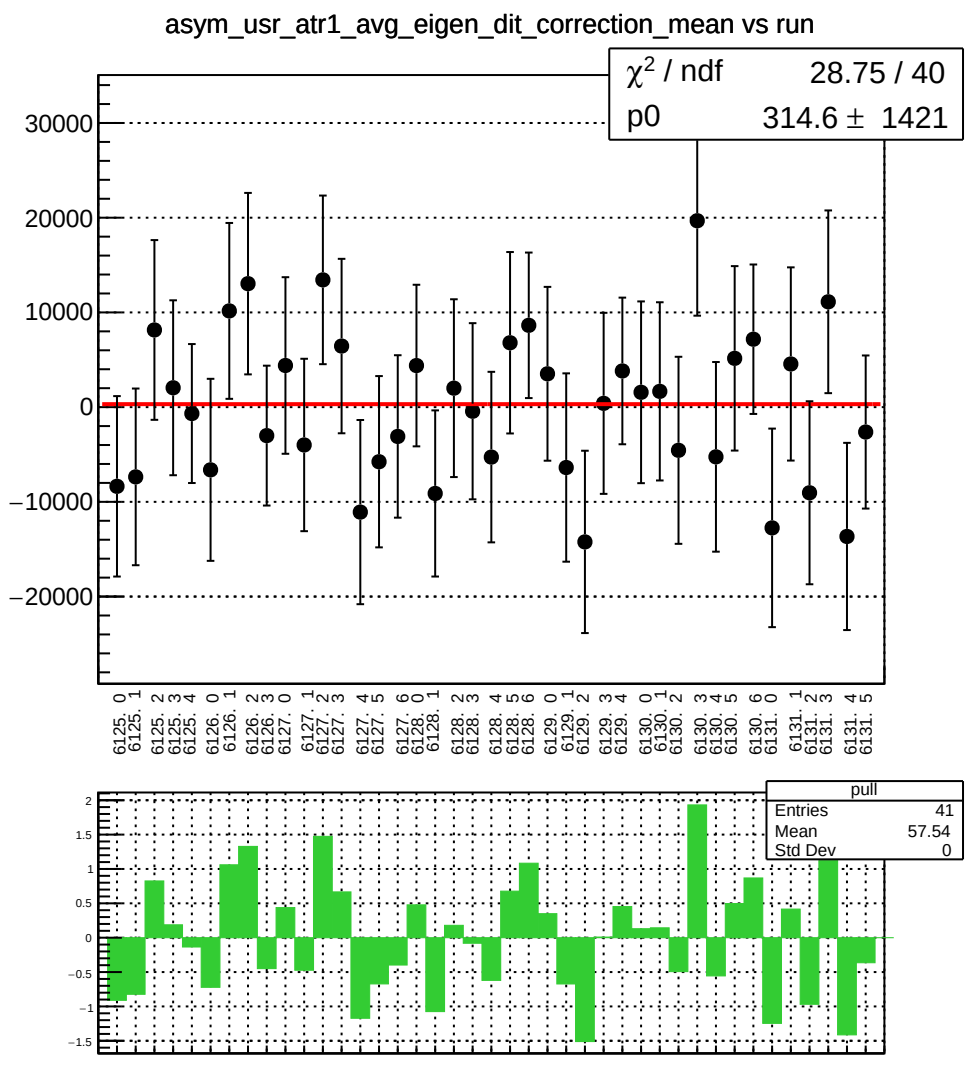
asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 28.75 / 40
p0 314.6 ± 1421
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
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6126. 3
6127. 0
6127. 1
6127. 2
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6127. 5
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6129. 2
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6130. 0
6130. 1
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6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
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6131. 2
6131. 3
6131. 4
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pull
Entries 41
Mean 57.54
Std Dev 0
2
1.5
1
0.5
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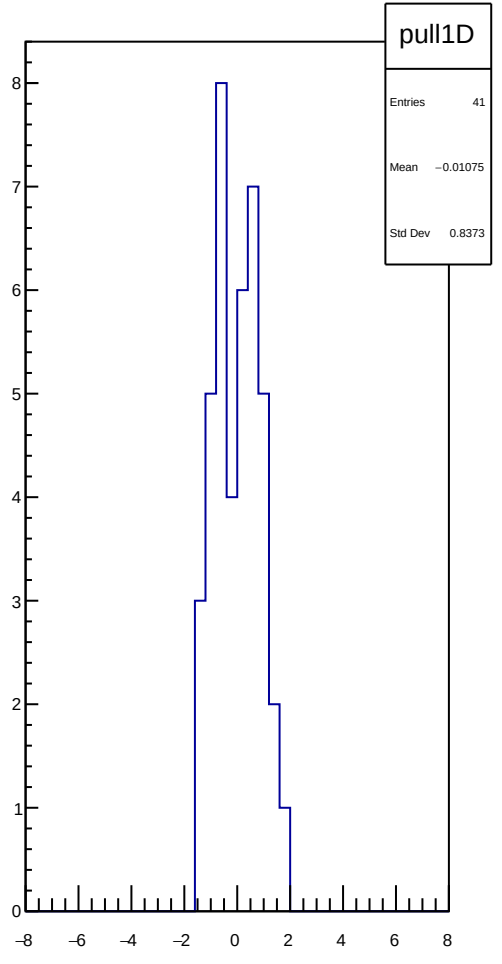
−1
−1.5


pull1D
Entries 41
Mean −0.01075
Std Dev 0.8373
8
7
6
5
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3
2
1
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−8
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−4
−2
0
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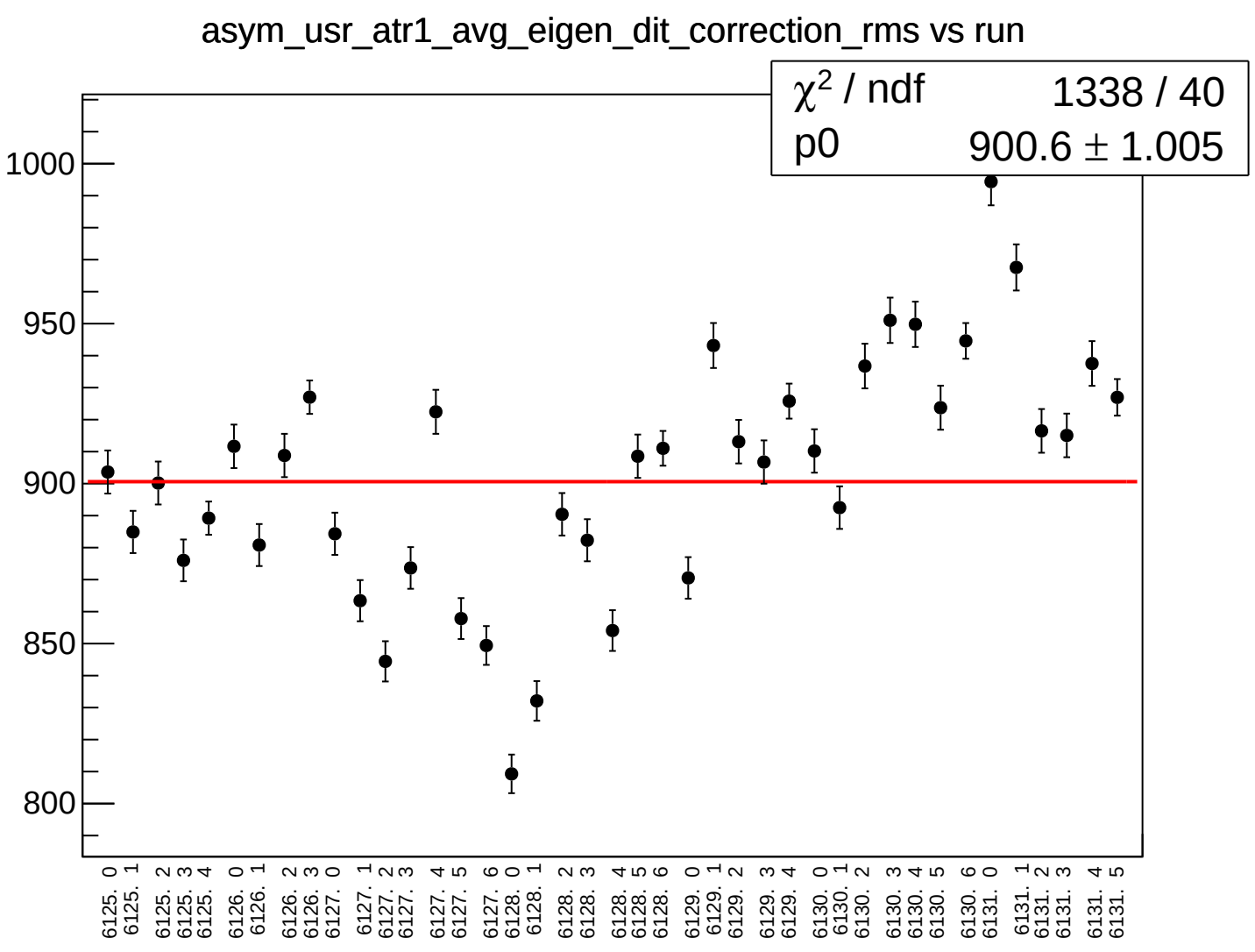
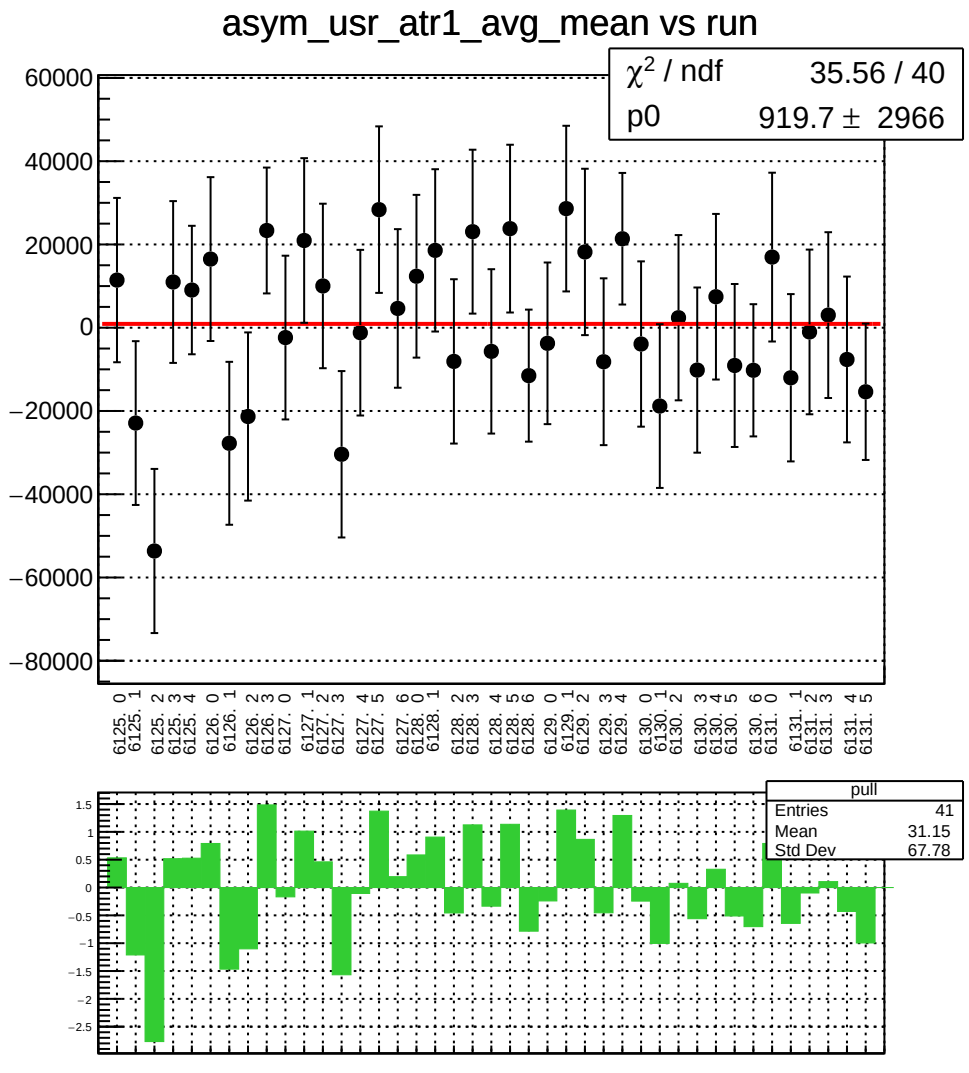
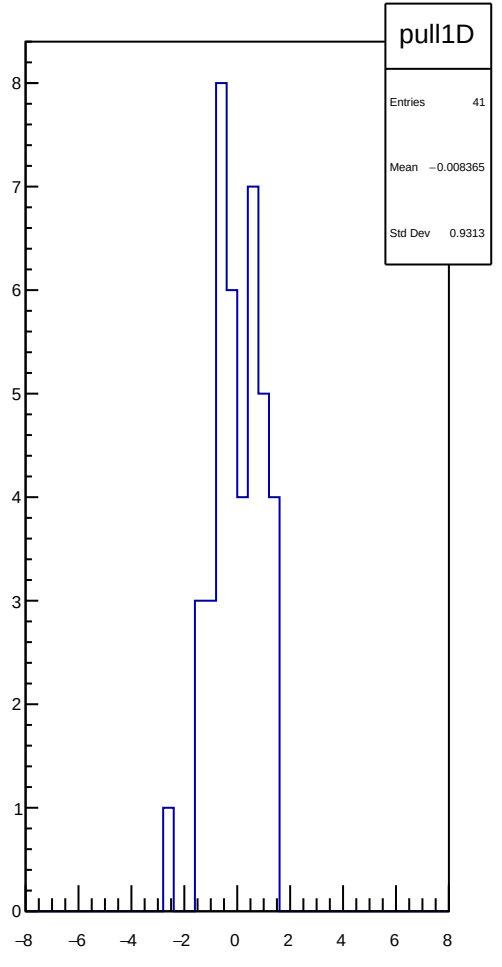
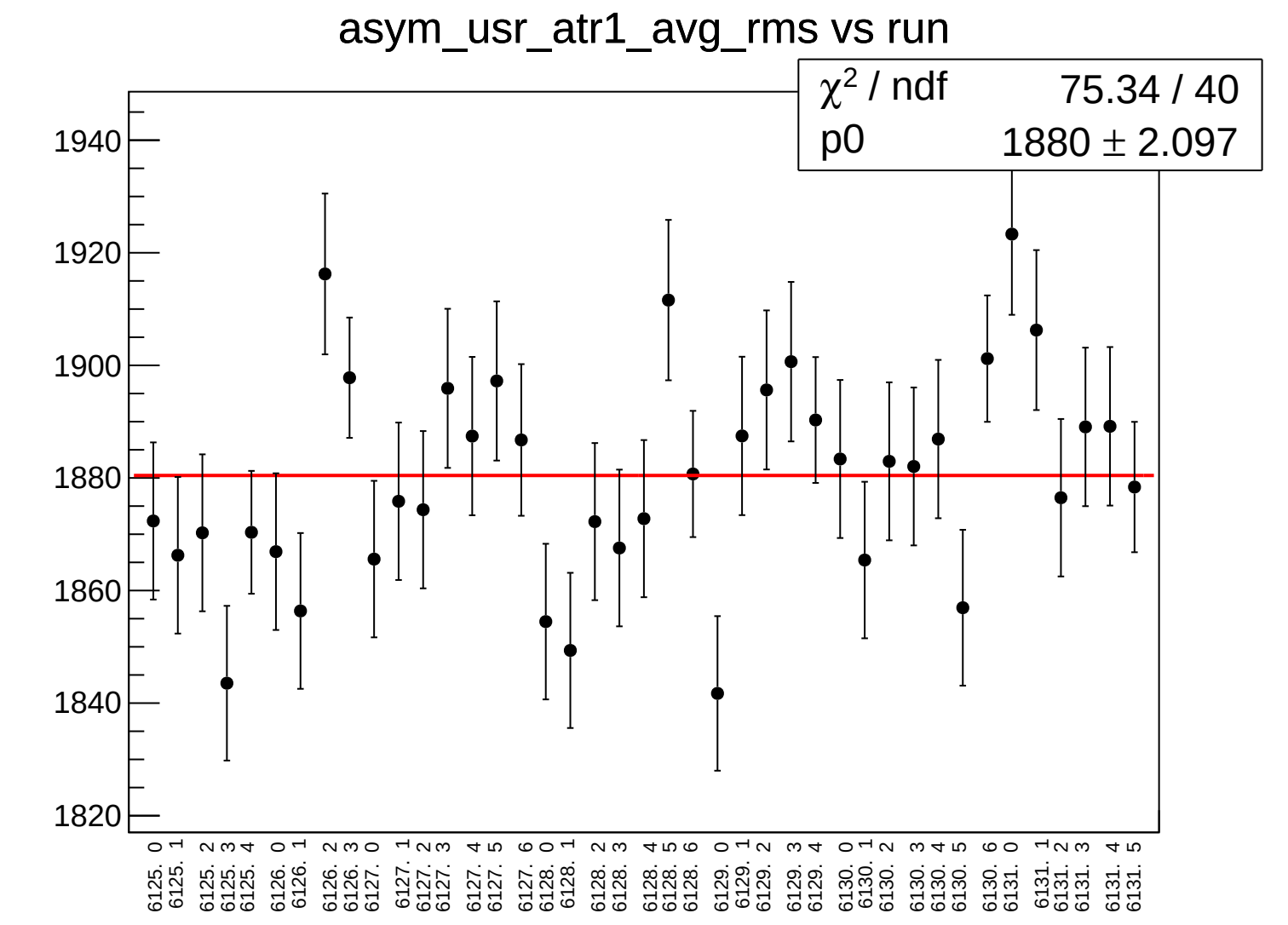
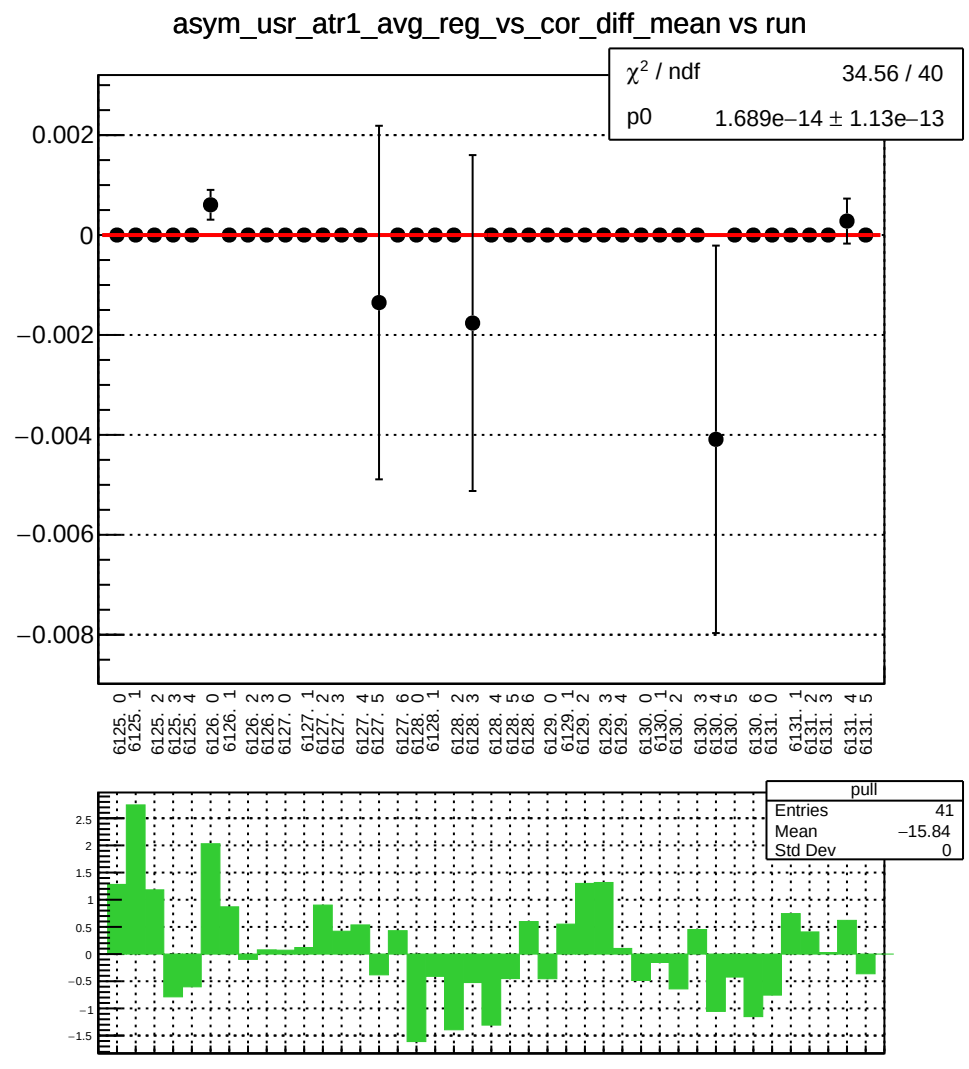
6
8

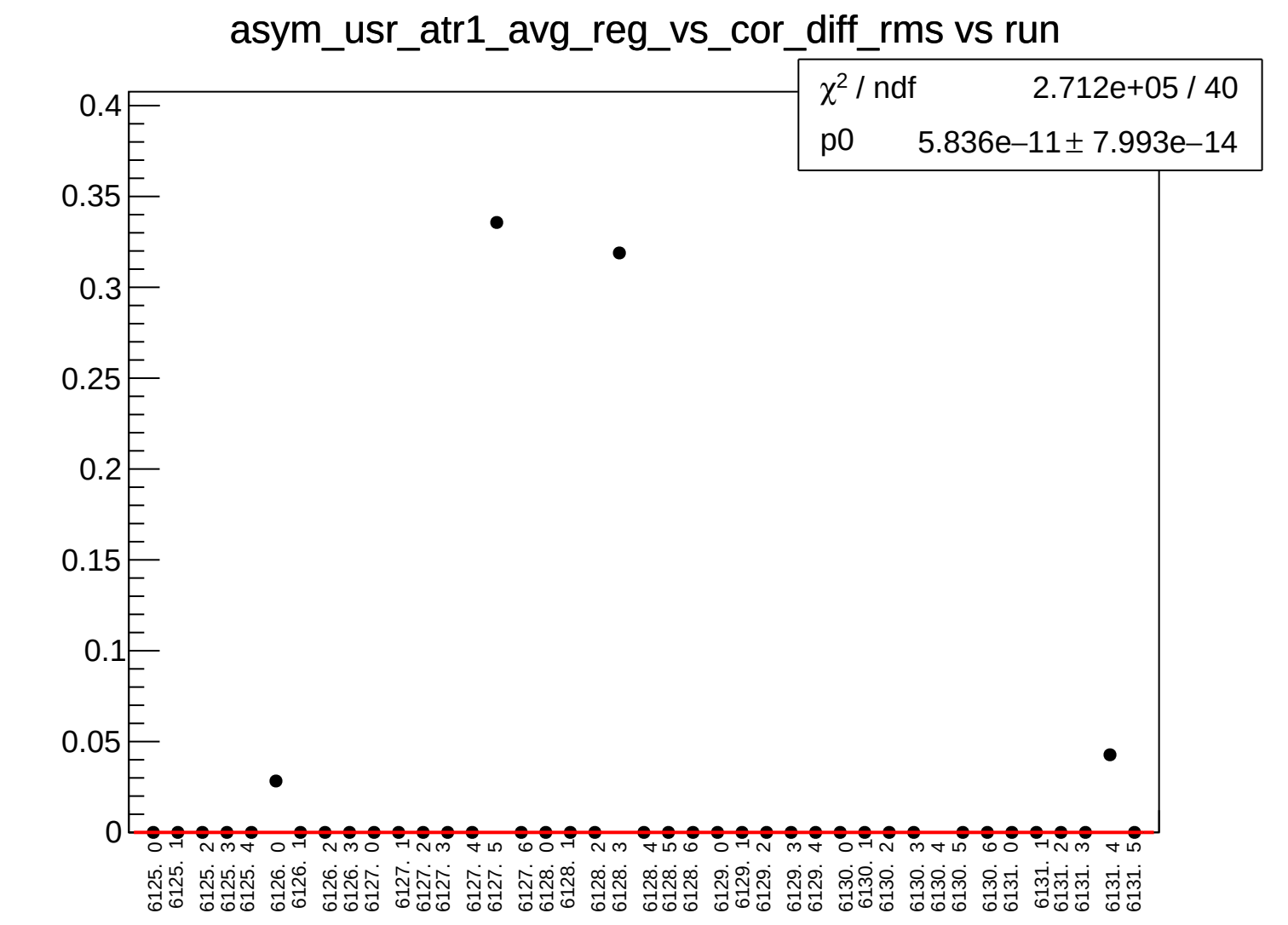

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1338 / 40
p0 900.6 ± 1.005
1000
950
900
850
800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

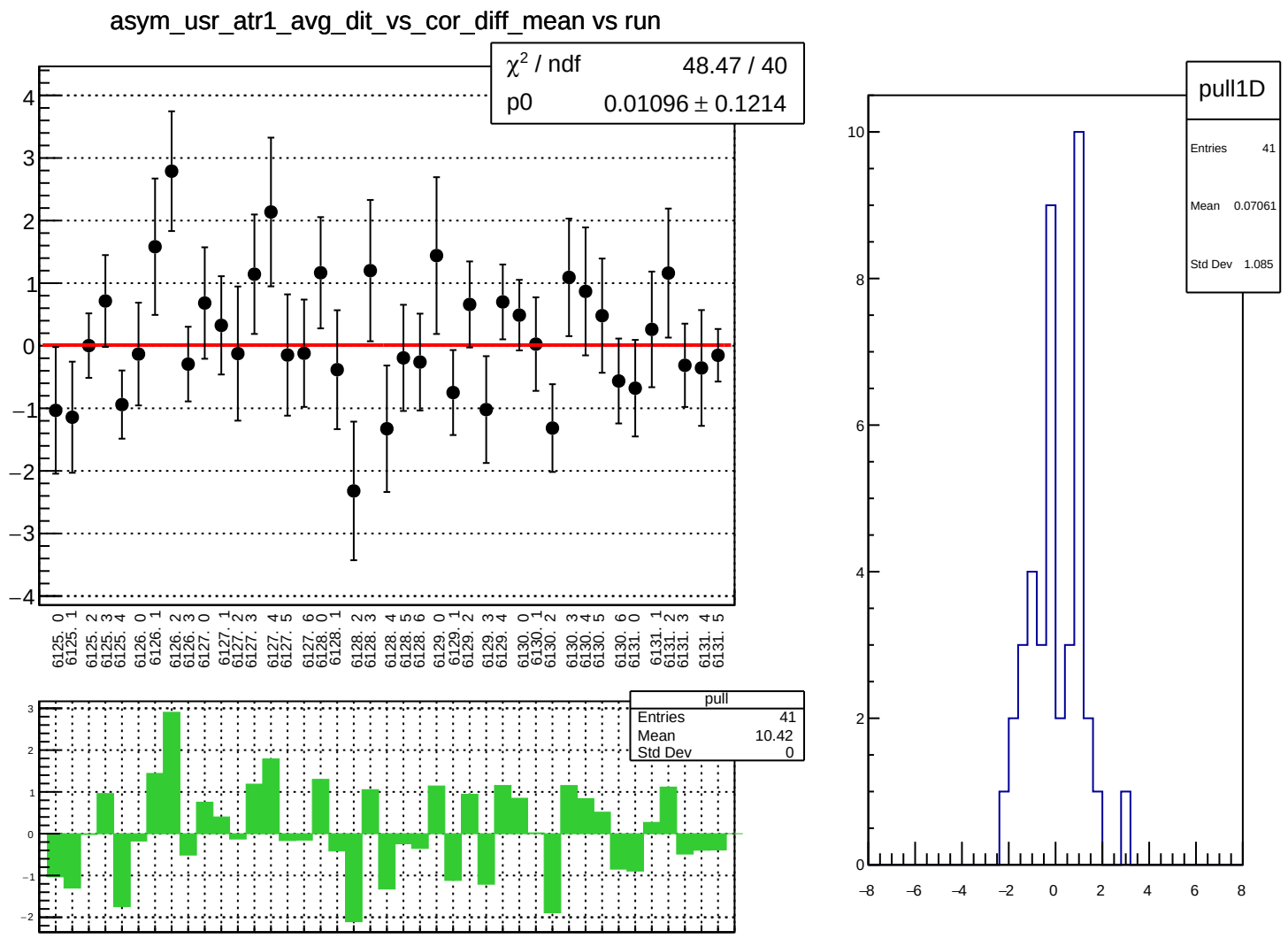

asym_usr_atr1_avg_mean vs run
χ² / ndf 35.56 / 40
p0 919.7 ± 2966
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 31.15
Std Dev 67.78
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

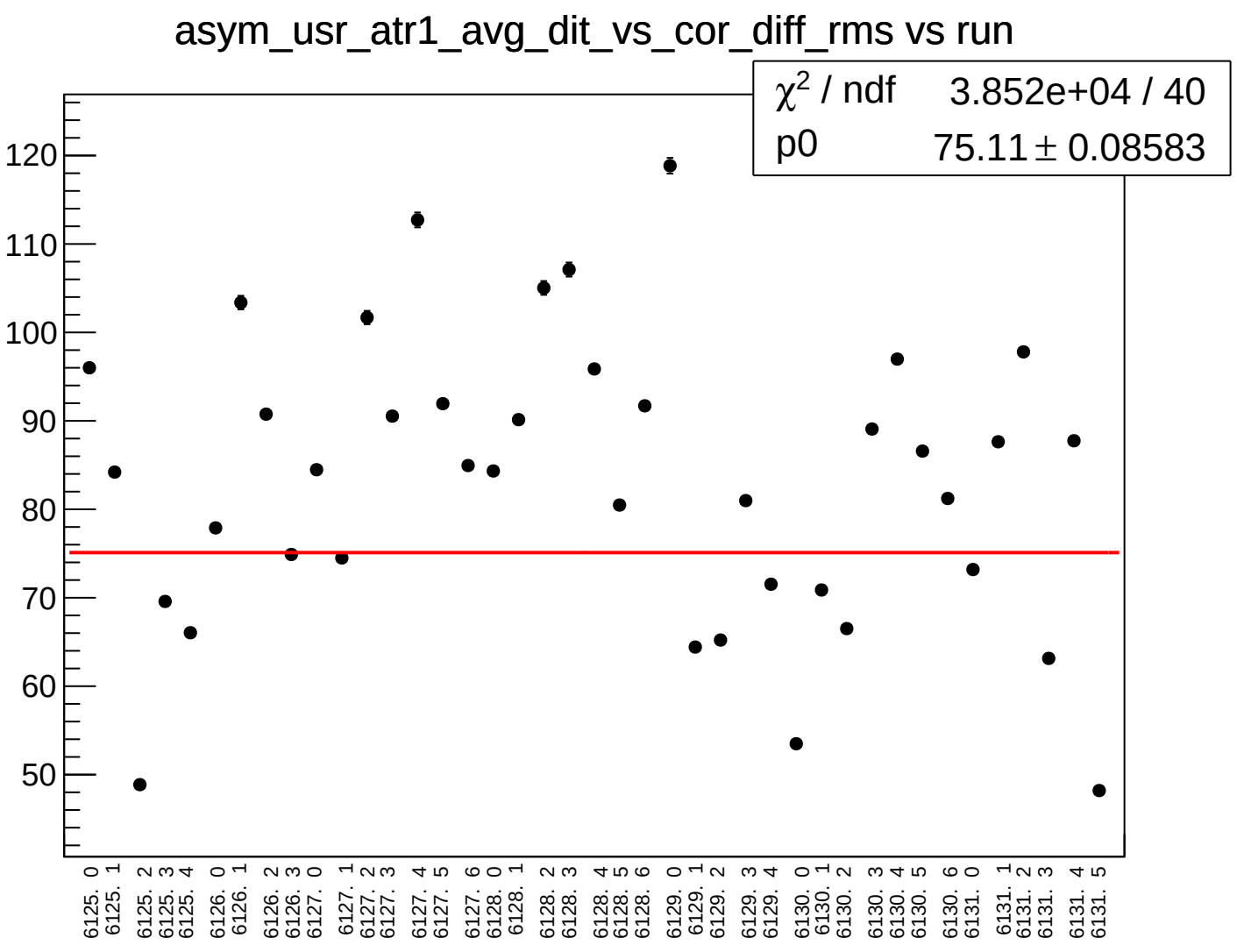

pull1D
Entries 41
Mean −0.008365
Std Dev 0.9313
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

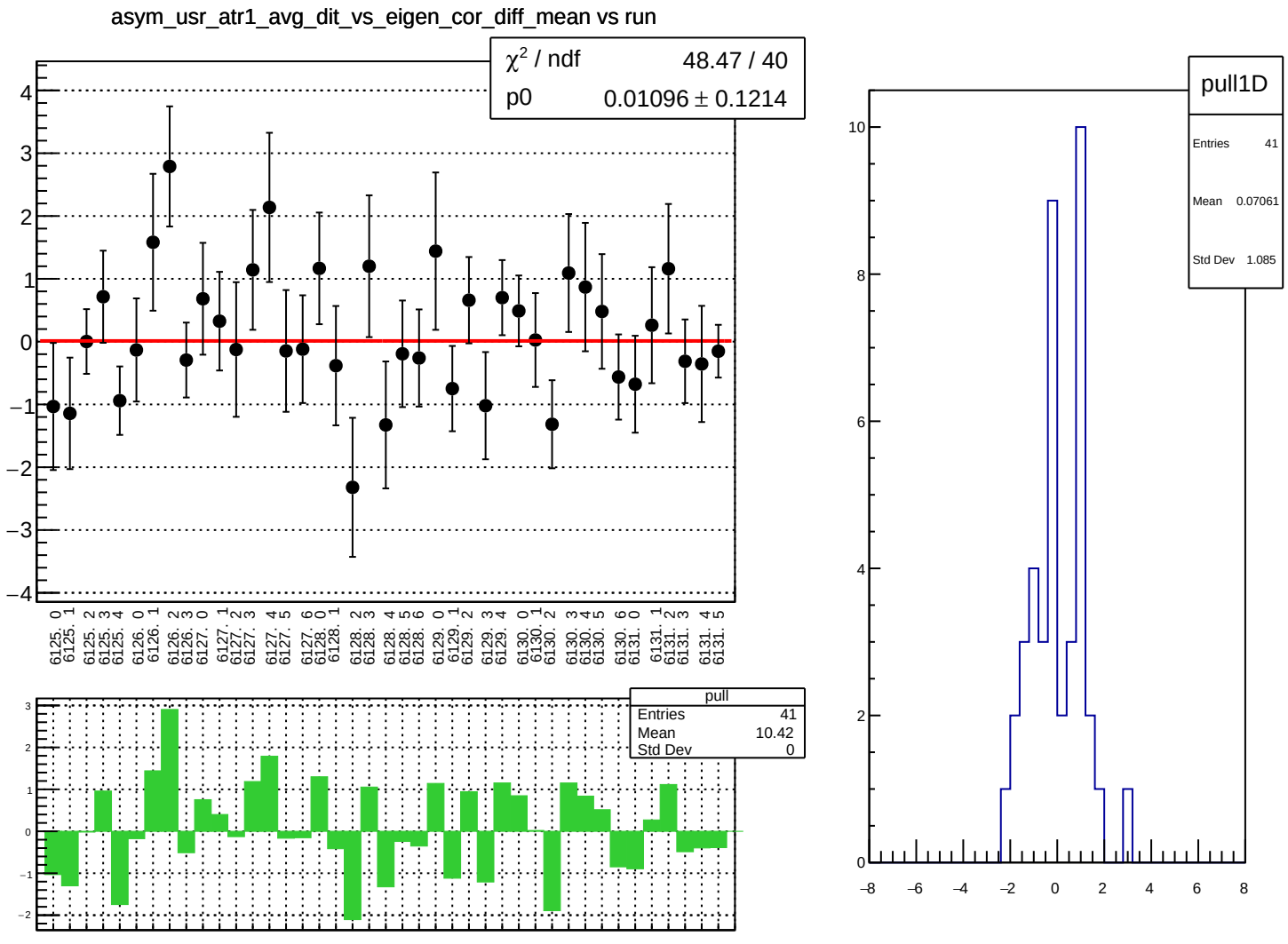

asym_usr_atr1_avg_rms vs run
χ² / ndf 75.34 / 40
p0 1880 ± 2.097
1940
1920
1900
1880
1860
1840
1820
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

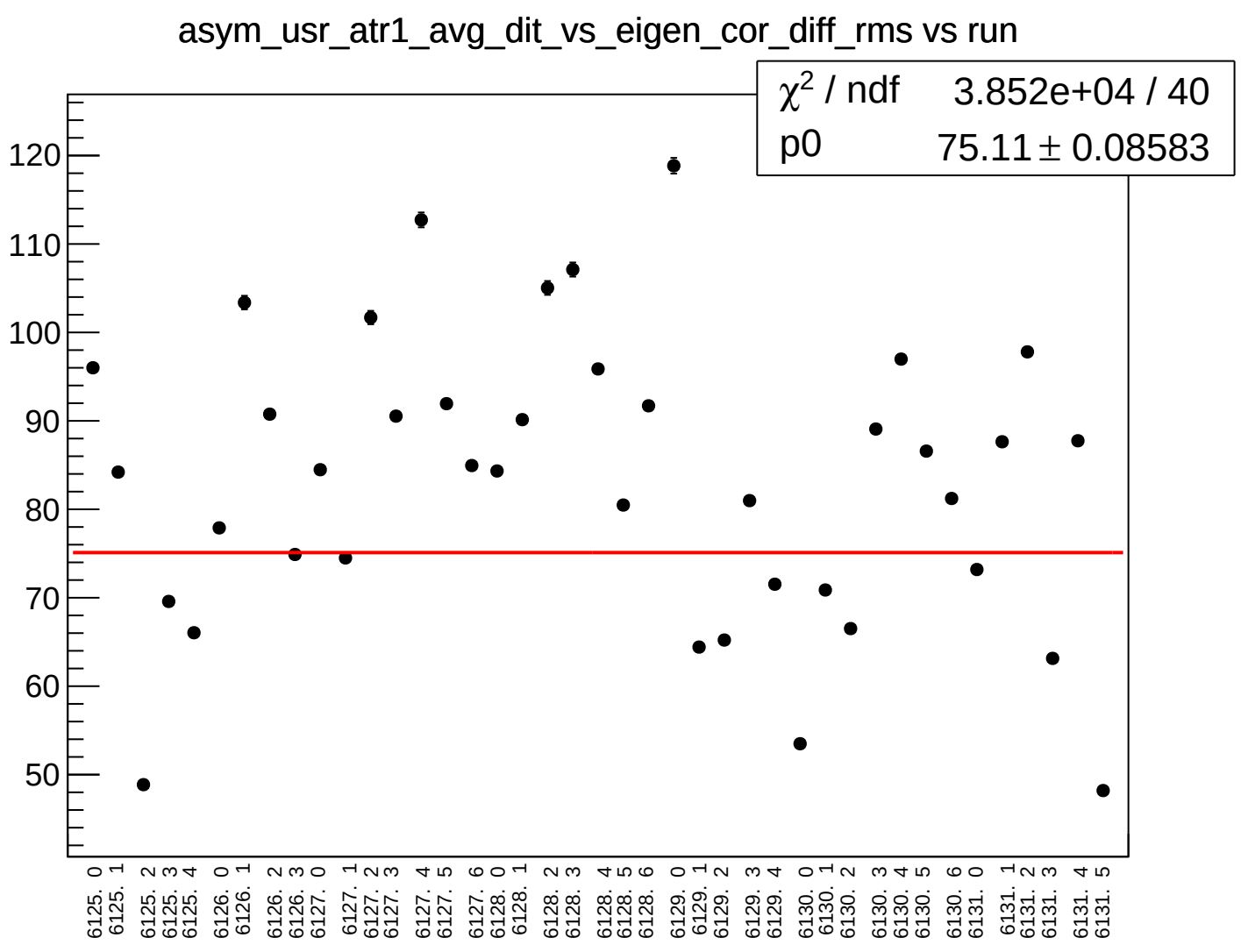

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 34.56 / 40
p0 1.689e−14 ± 1.13e−13
0.002
0
−0.002
−0.004
−0.006
−0.008
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −15.84
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.09136
Std Dev 0.9136
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

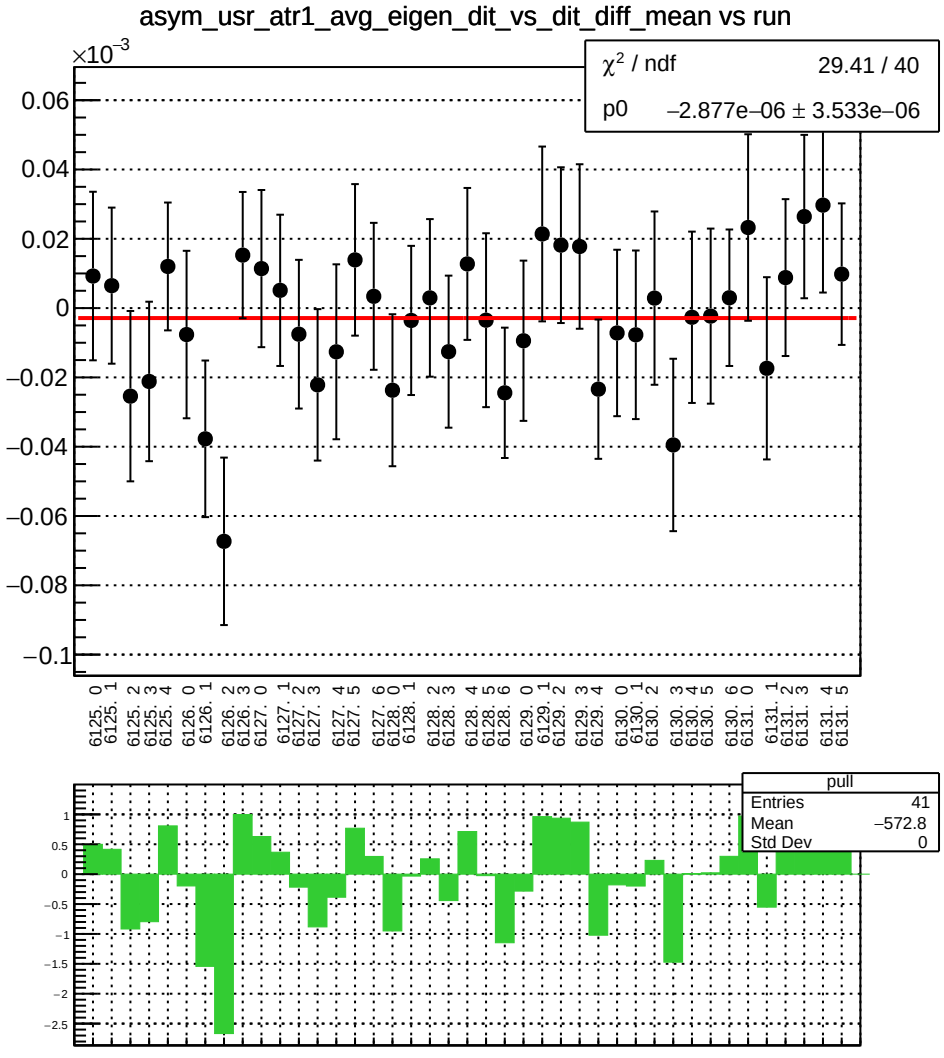

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.712e+05 / 40
p0 5.836e−11 ± 7.993e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

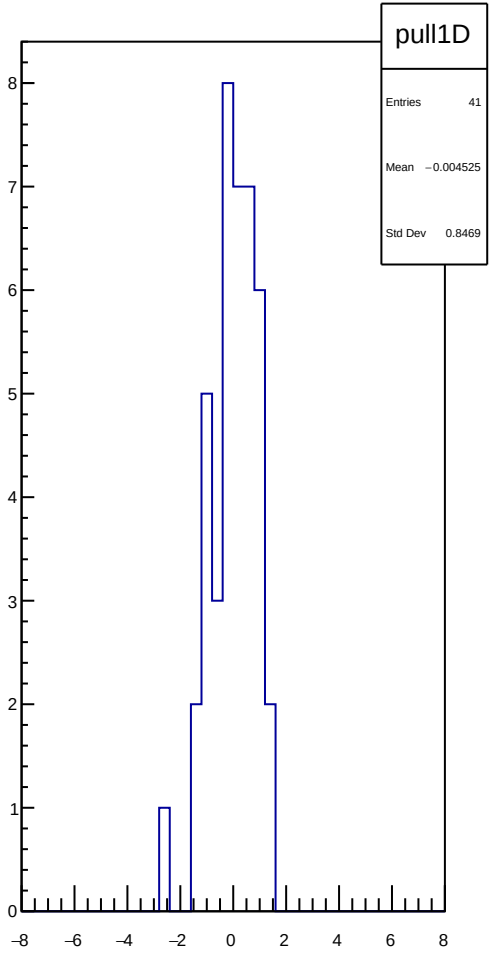

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 48.47 / 40
p0 0.01096 ± 0.1214
pull
Entries 41
Mean 10.42
Std Dev 0
pull1D
Entries 41
Mean 0.07061
Std Dev 1.085

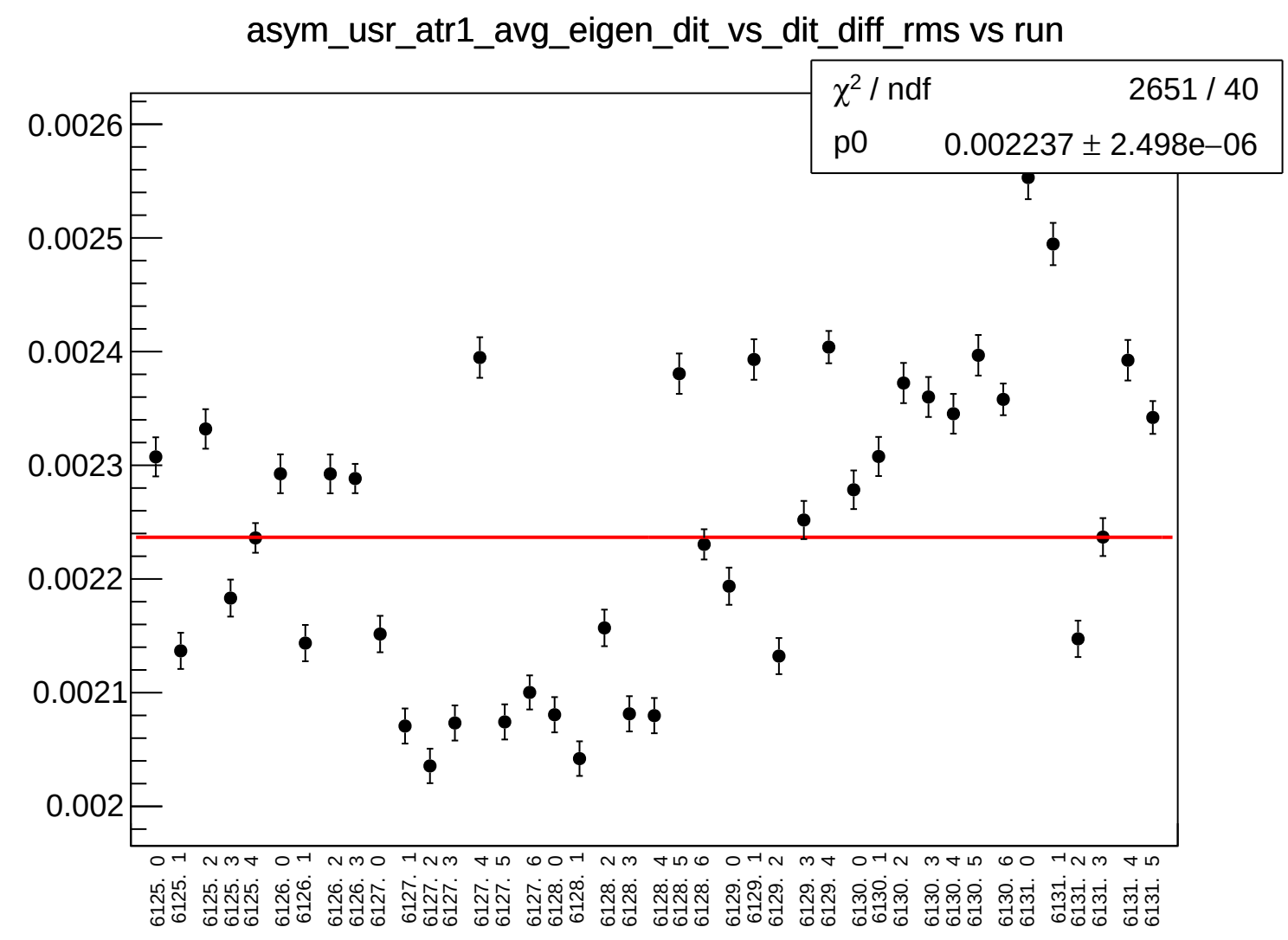

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.852e+04 / 40
p0 75.11 ± 0.08583
120
110
100
90
80
70
60
50
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

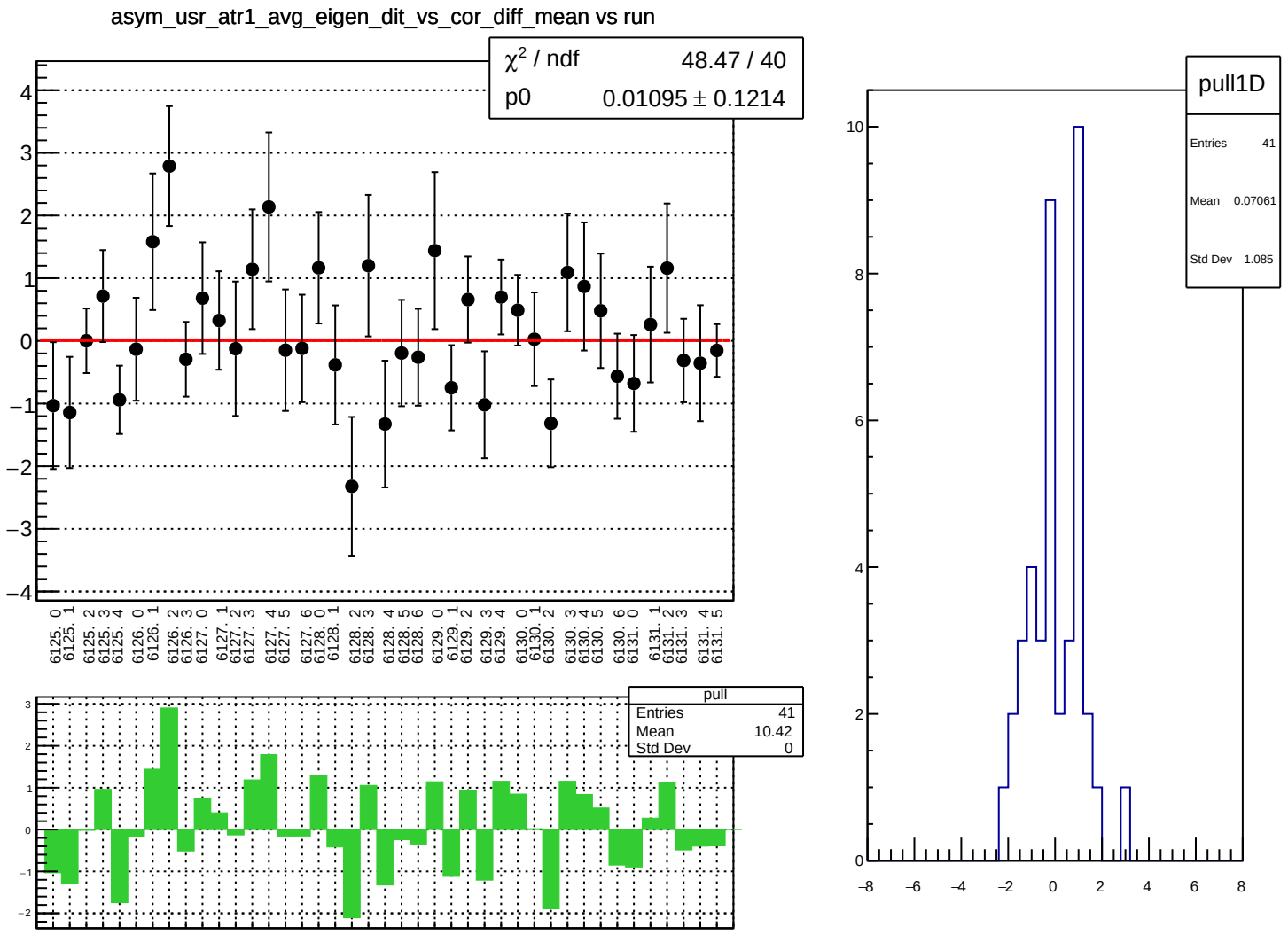

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.47 / 40
p0 0.01096 ± 0.1214
pull
Entries 41
Mean 10.42
Std Dev 0
pull1D
Entries 41
Mean 0.07061
Std Dev 1.085

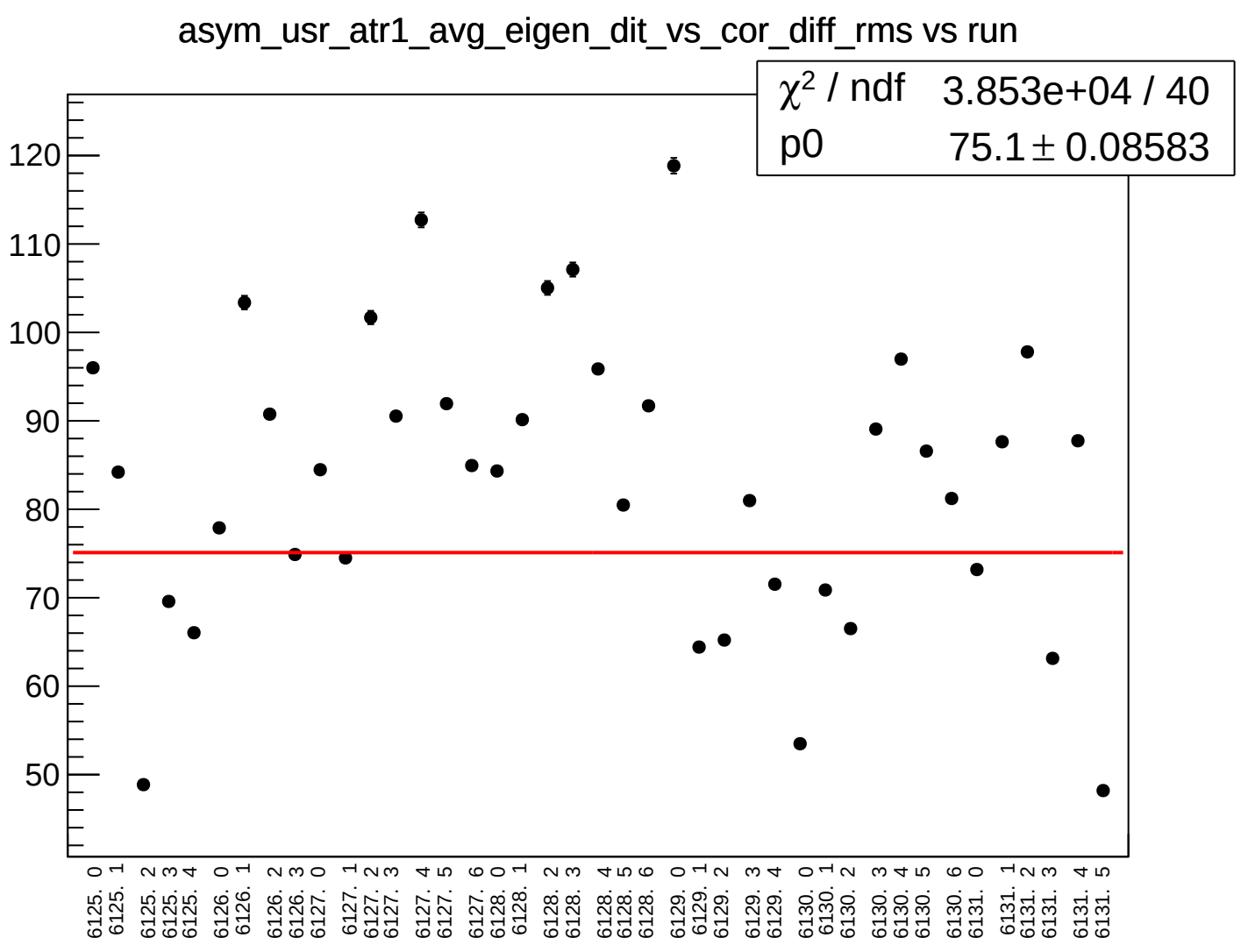

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.852e+04 / 40
p0 75.11 ± 0.08583
120
110
100
90
80
70
60
50
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

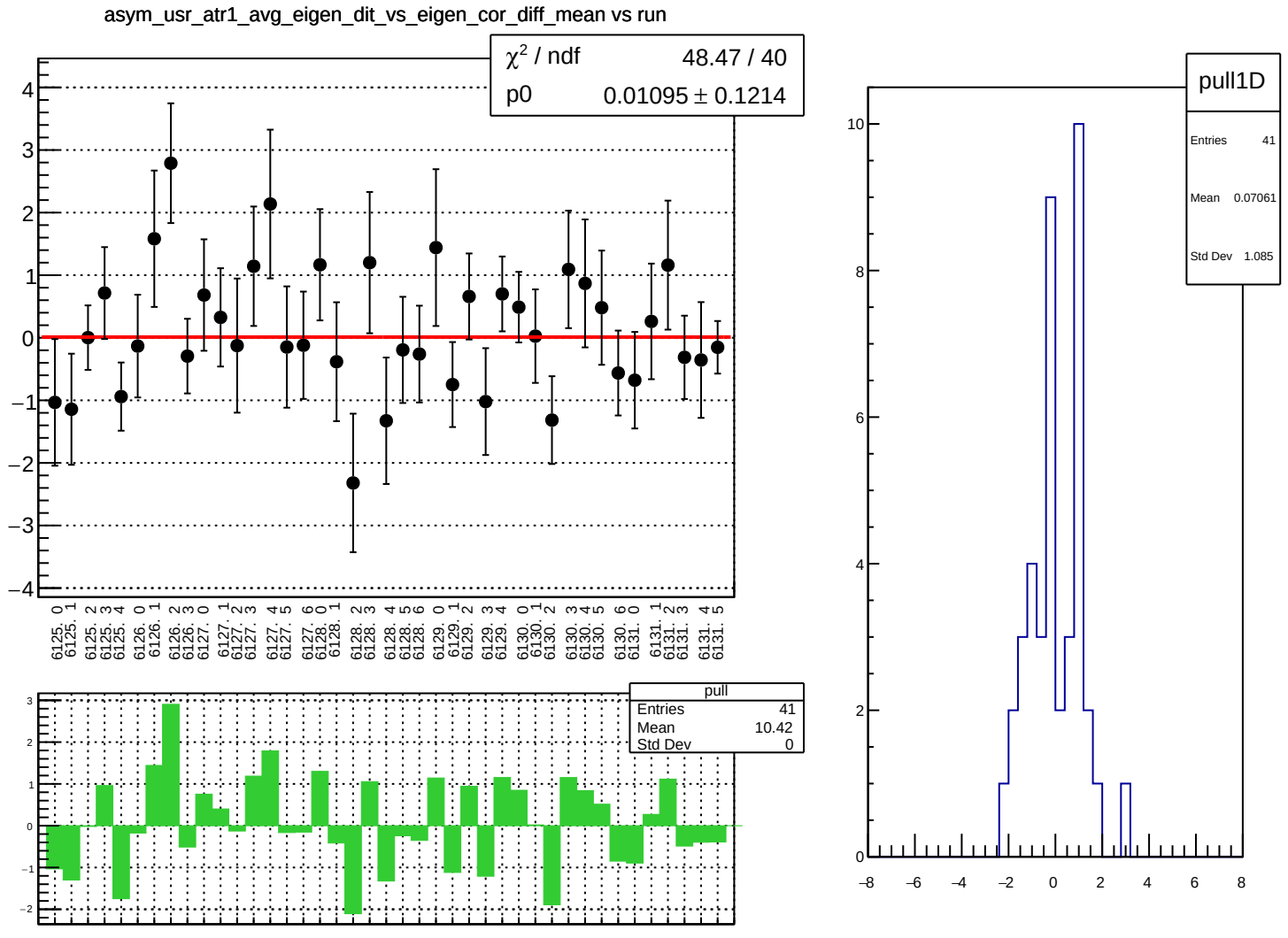

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 29.41 / 40
p0 −2.877e−06 ± 3.533e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −572.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

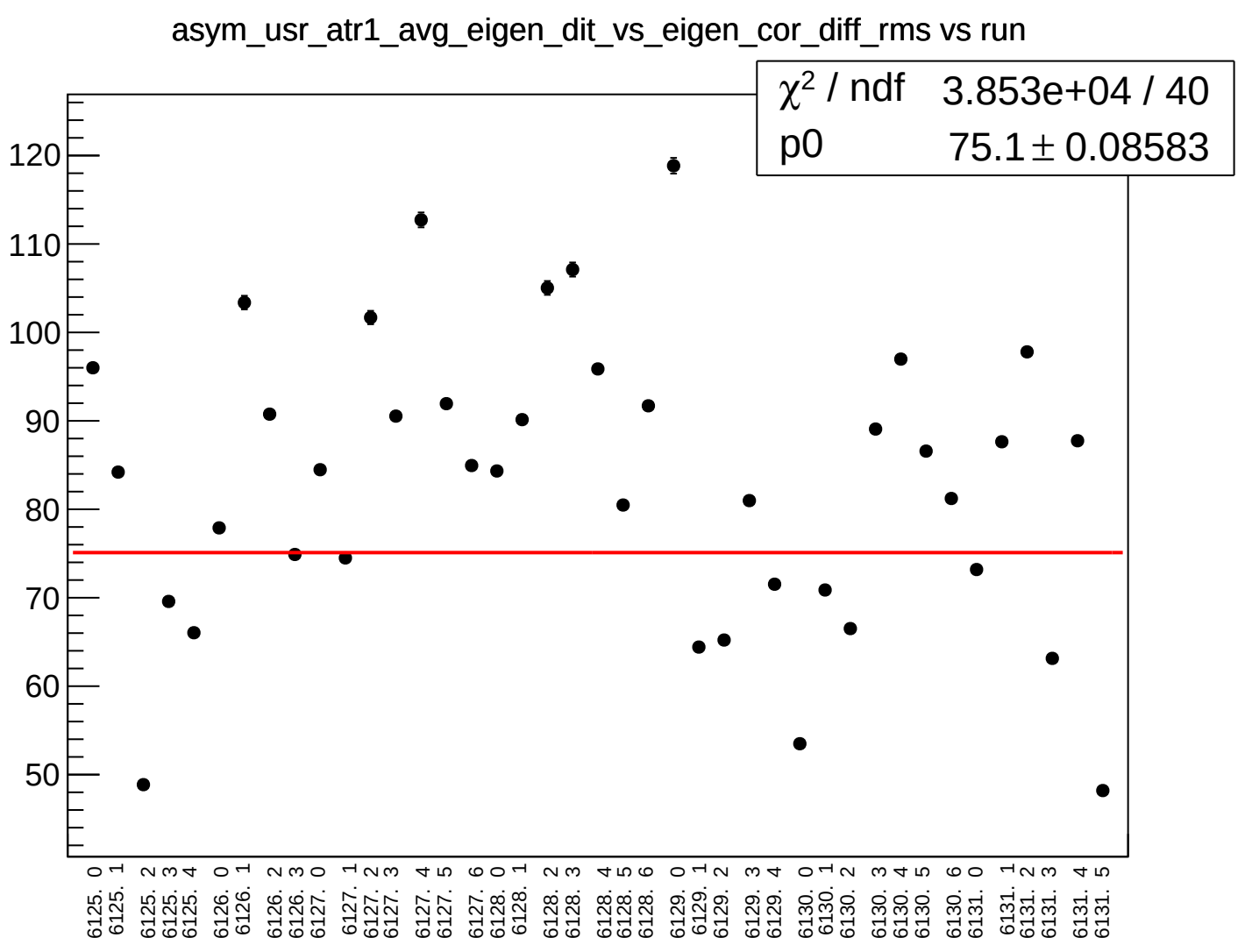

pull1D
Entries 41
Mean −0.004525
Std Dev 0.8469
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

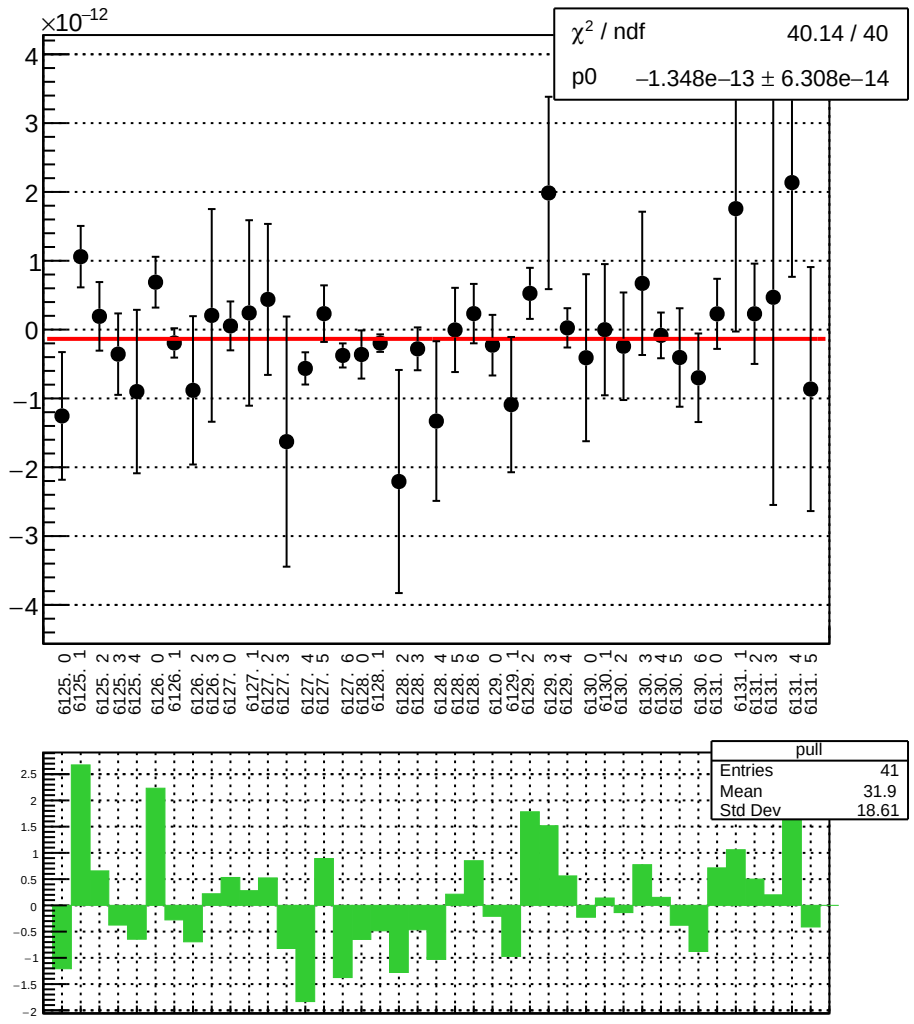

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2651 / 40
p0 0.002237 ± 2.498e−06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

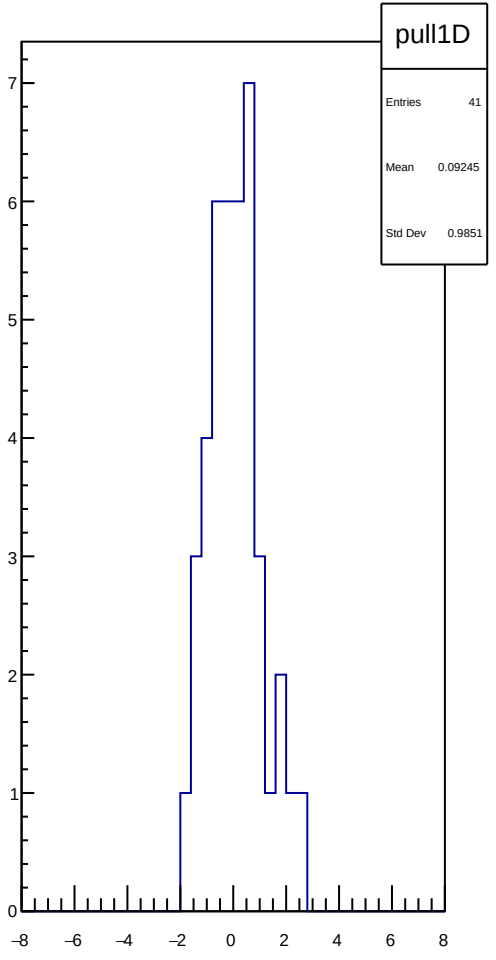

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 48.47 / 40
p0 0.01095 ± 0.1214
pull
Entries 41
Mean 10.42
Std Dev 0
pull1D
Entries 41
Mean 0.07061
Std Dev 1.085

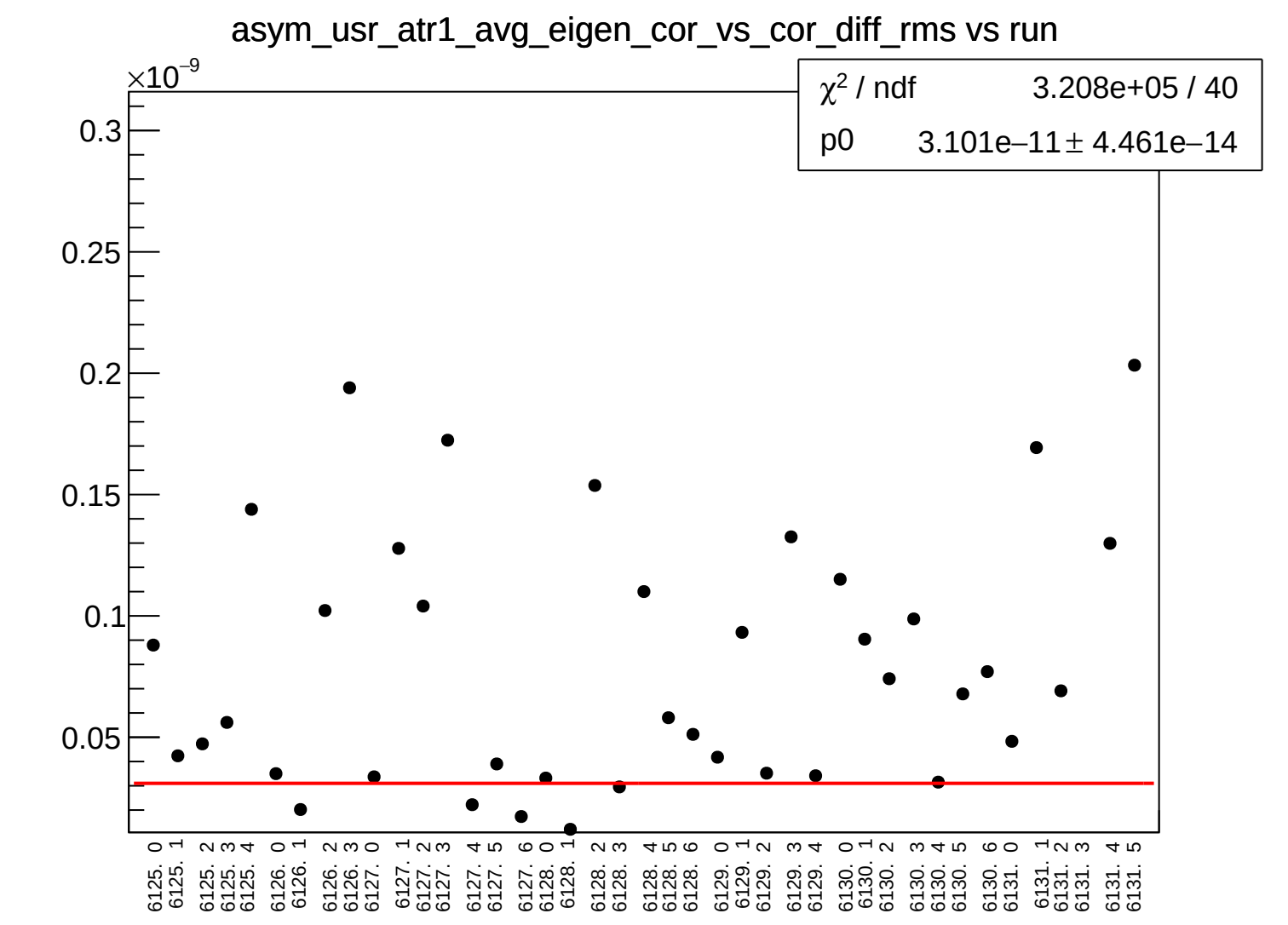

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.853e+04 / 40
p0 75.1 ± 0.08583
120
110
100
90
80
70
60
50
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

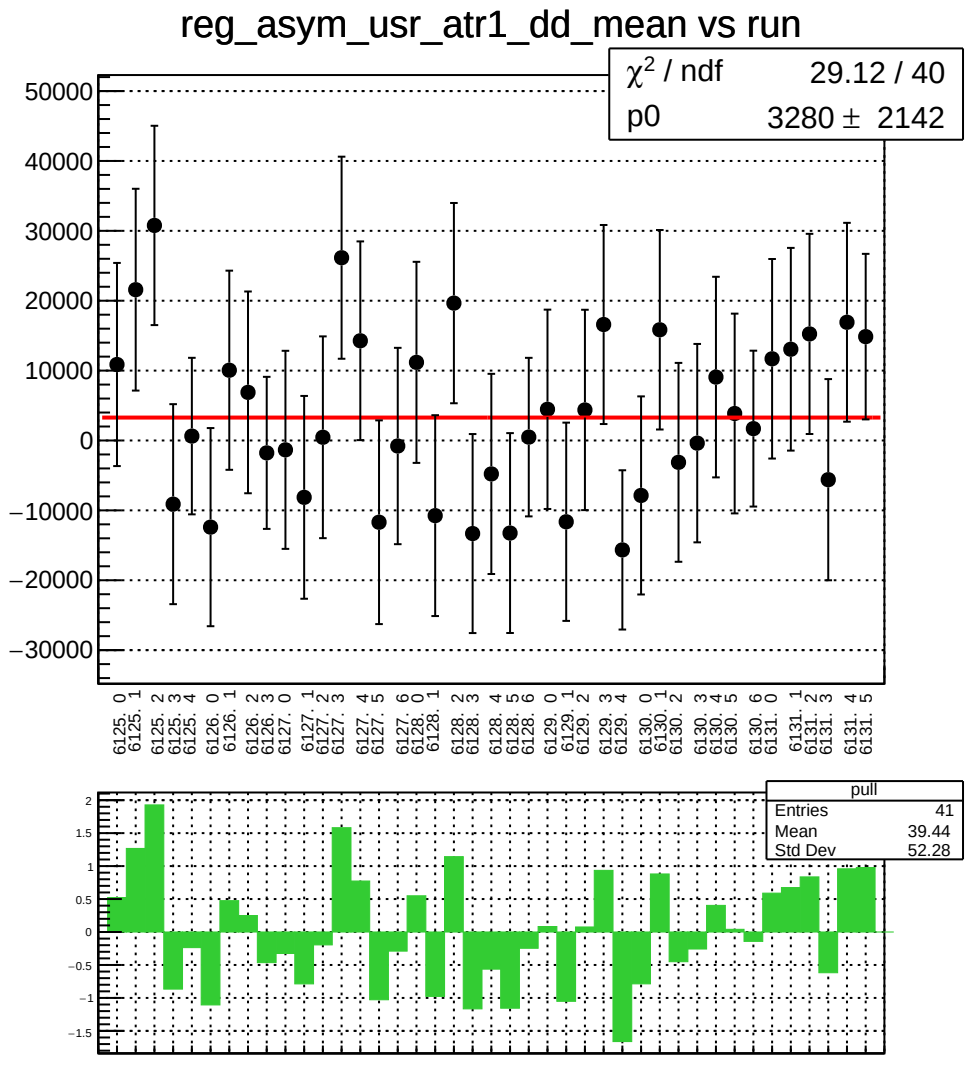

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.47 / 40
p0 0.01095 ± 0.1214
pull
Entries 41
Mean 10.42
Std Dev 0
pull1D
Entries 41
Mean 0.07061
Std Dev 1.085


asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.853e+04 / 40
p0 75.1 ± 0.08583
120
110
100
90
80
70
60
50
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.14 / 40
p0 −1.348e−13 ± 6.308e−14
pull
Entries 41
Mean 31.9
Std Dev 18.61


pull1D
Entries 41
Mean 0.09245
Std Dev 0.9851


asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.208e+05 / 40
p0 3.101e−11 ± 4.461e−14
0.3
0.25
0.2
0.15
0.1
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 29.12 / 40
p0 3280 ± 2142
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 39.44
Std Dev 52.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.01393
Std Dev 0.8427
7
6
5
4
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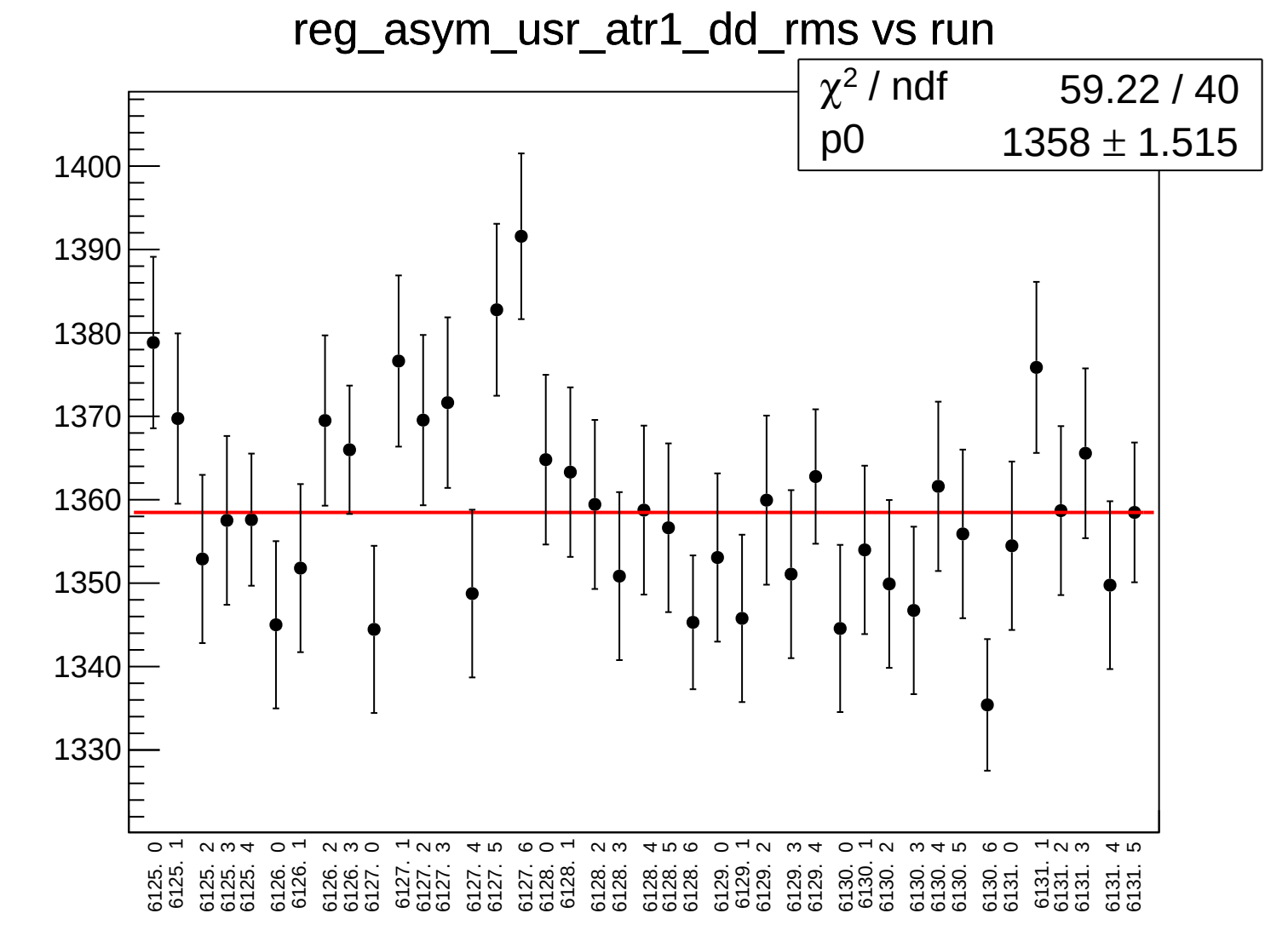
−4
−2
0
2
4
6
8


reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 59.22 / 40
p0 1358 ± 1.515
1400
1390
1380
1370
1360
1350
1340
1330
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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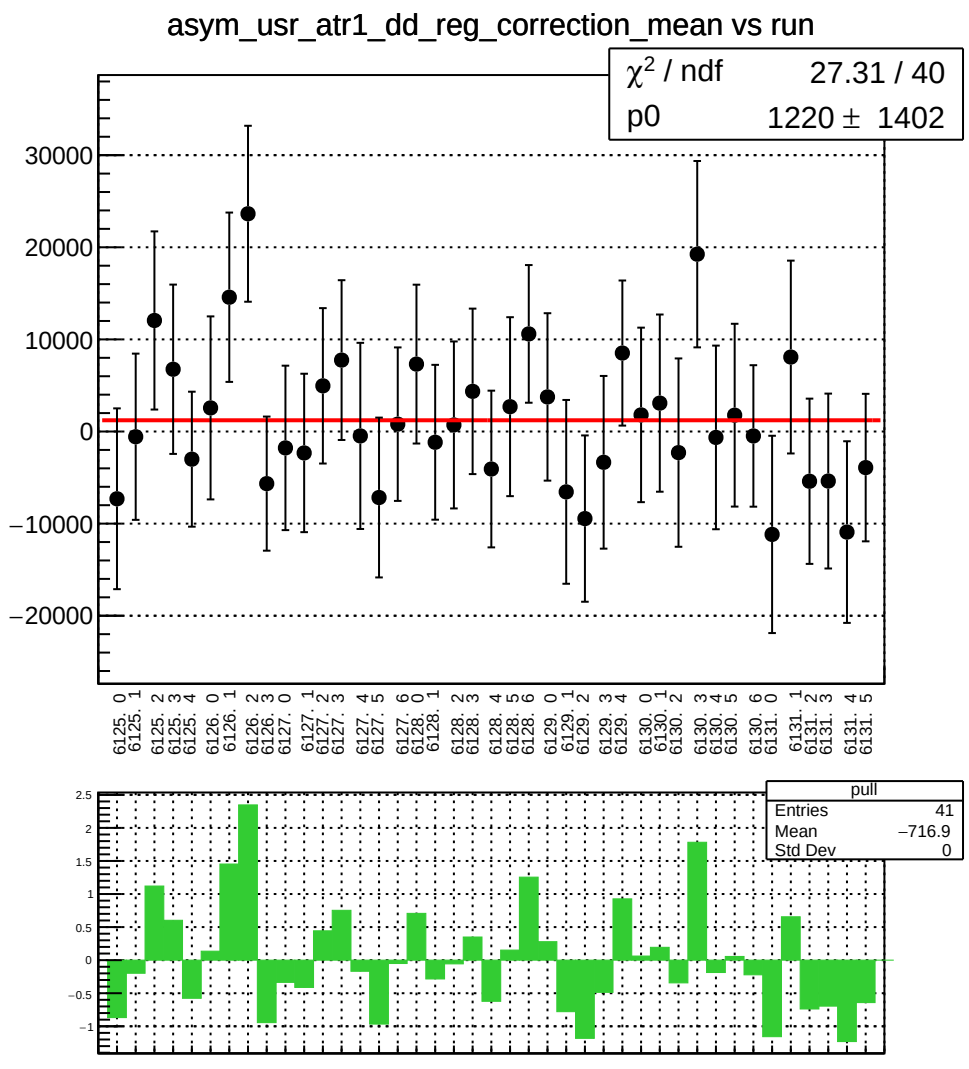
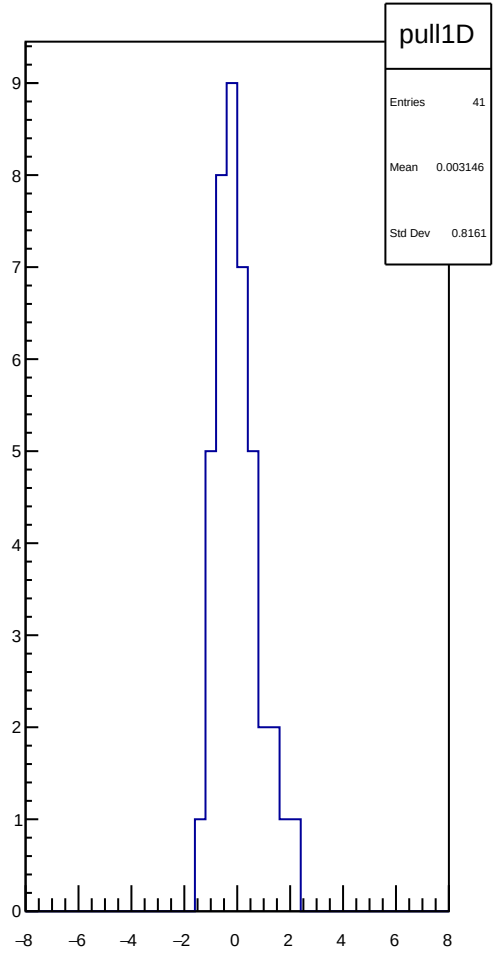
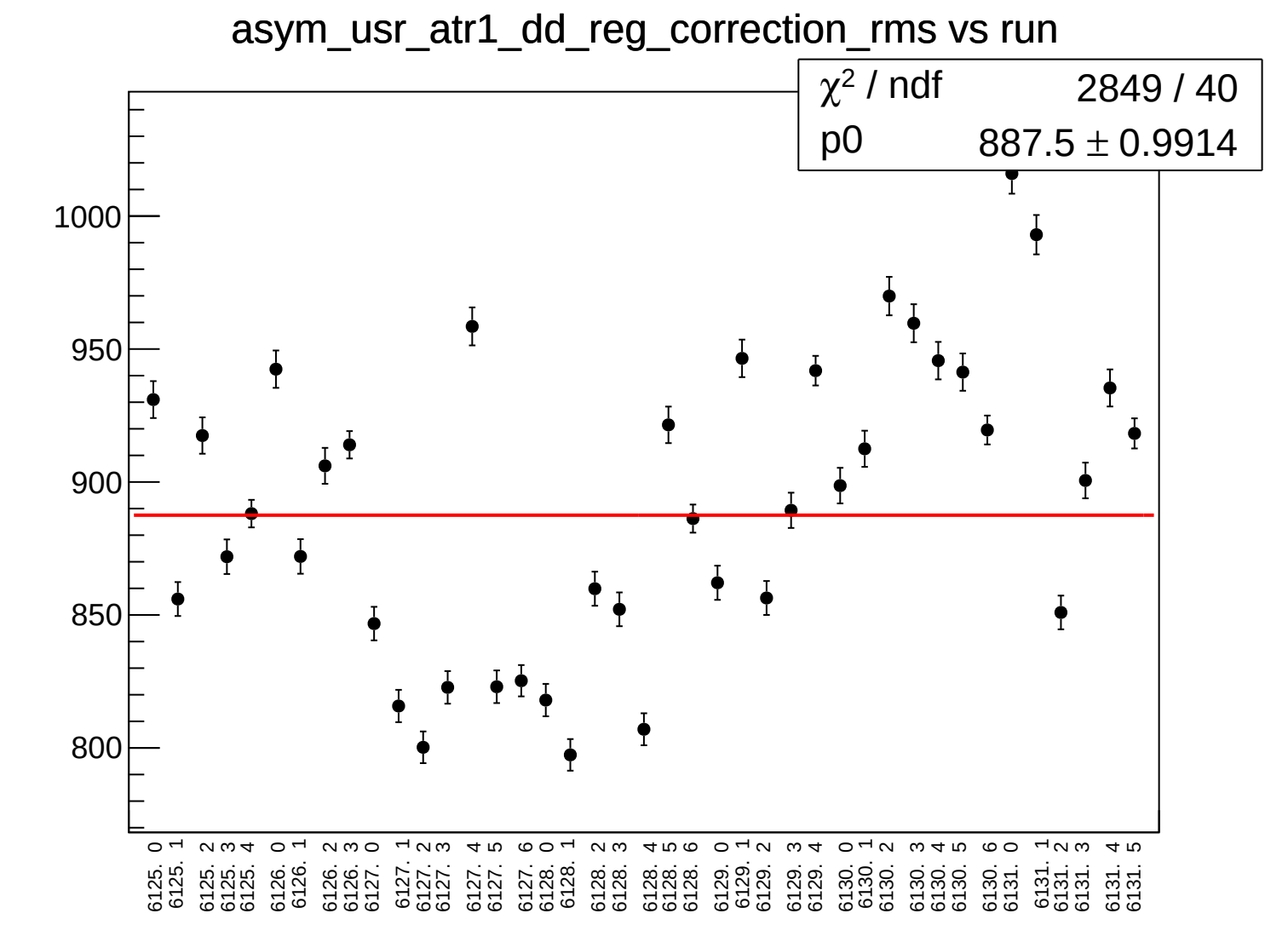
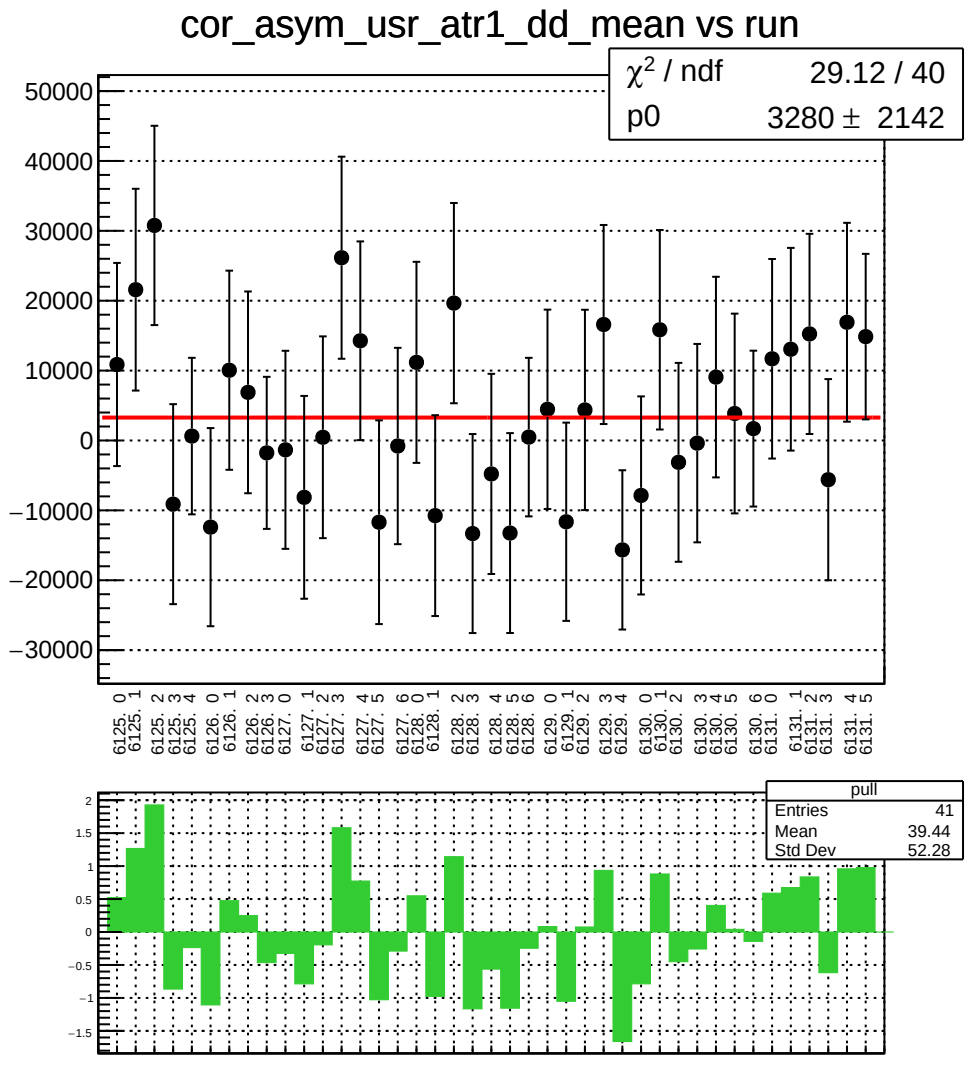
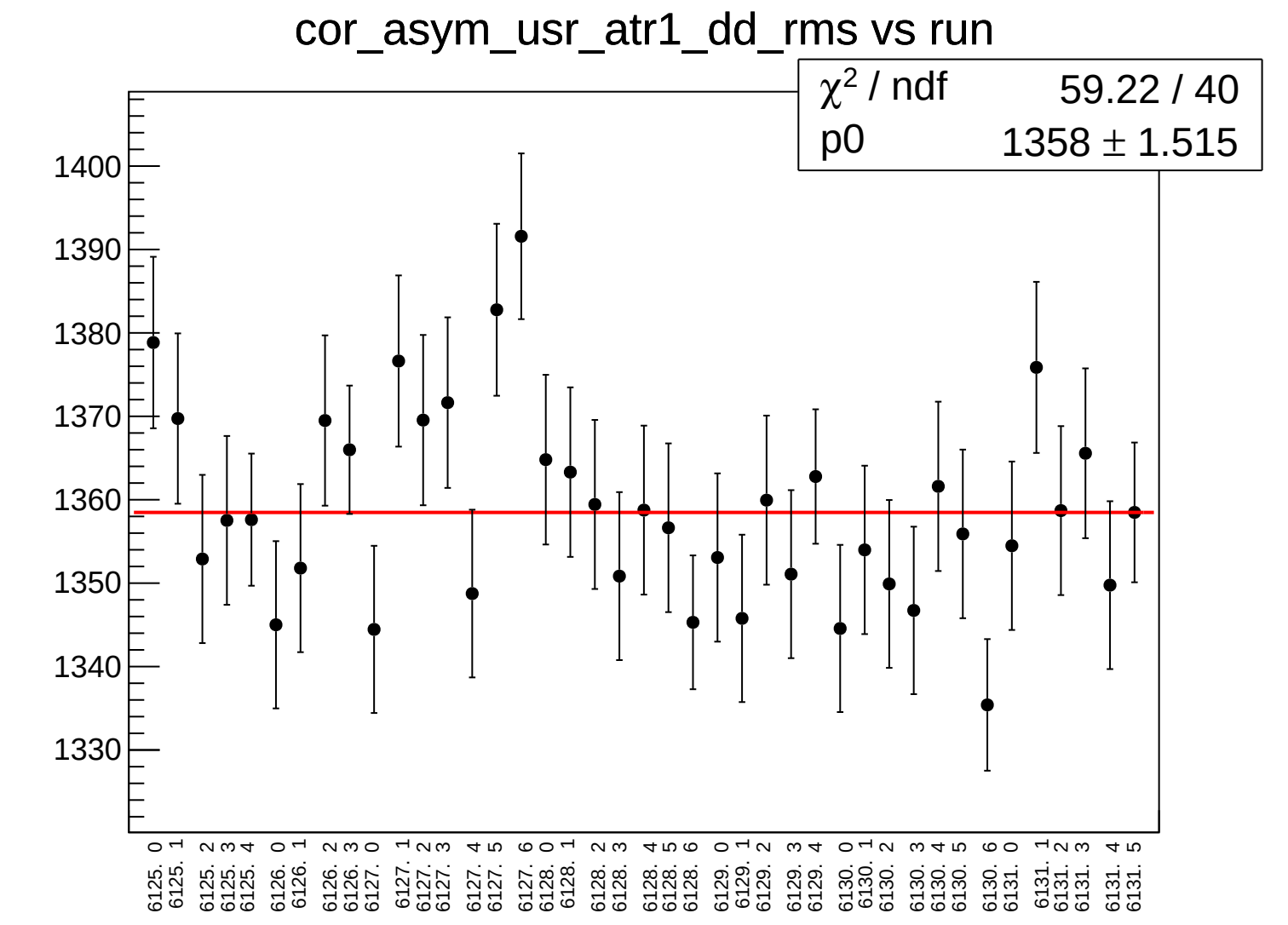
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

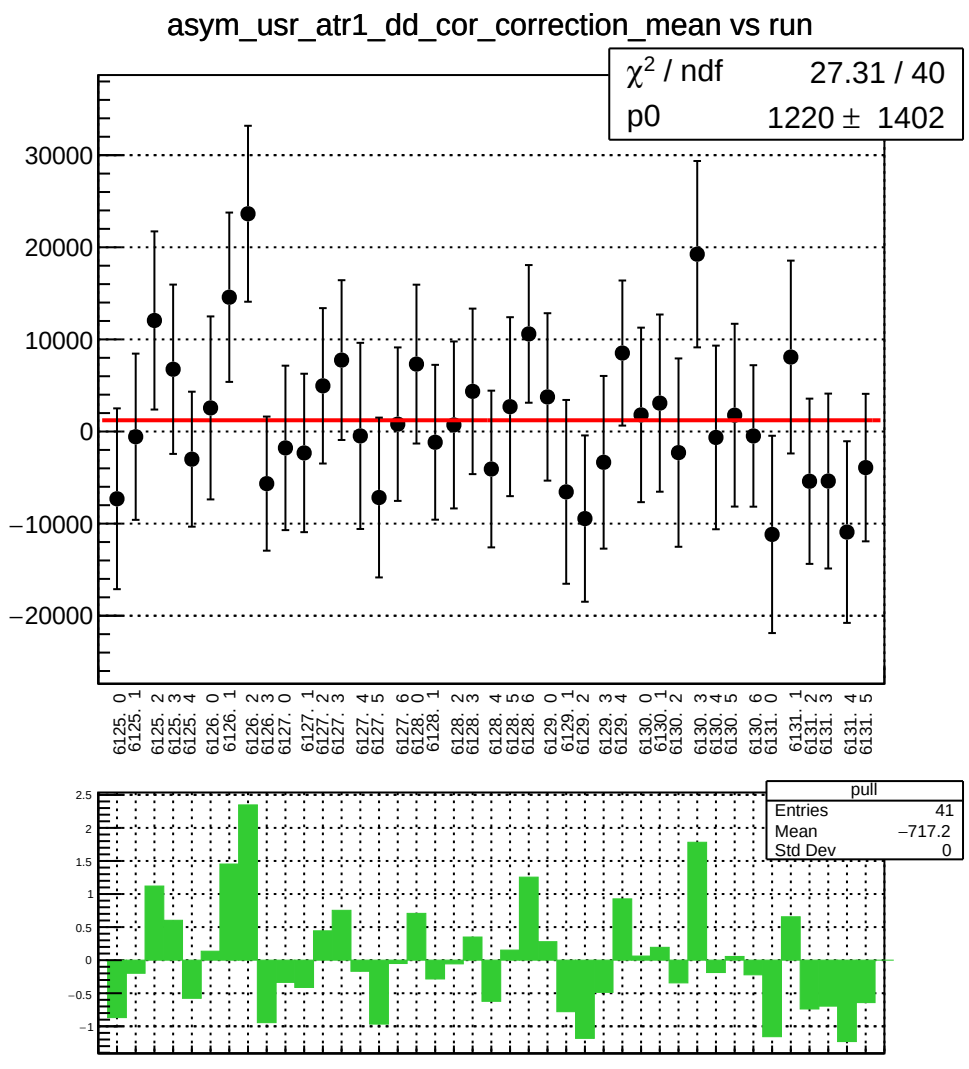

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 27.31 / 40
p0 1220 ± 1402
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −716.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

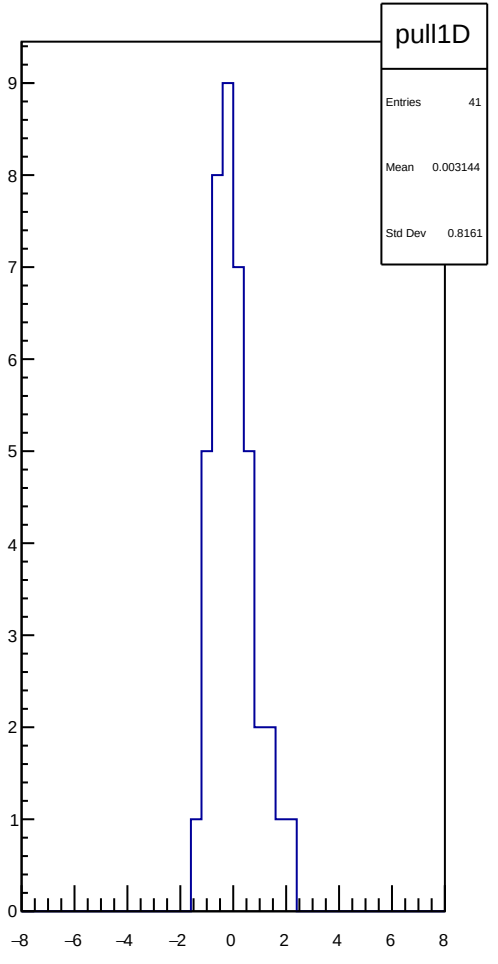

pull1D
Entries 41
Mean 0.003146
Std Dev 0.8161
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 2849 / 40
p0 887.5 ± 0.9914
1000
950
900
850
800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 29.12 / 40
p0 3280 ± 2142
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 39.44
Std Dev 52.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.01393
Std Dev 0.8427
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 59.22 / 40
p0 1358 ± 1.515
1400
1390
1380
1370
1360
1350
1340
1330
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 27.31 / 40
p0 1220 ± 1402
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −717.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 41
Mean 0.003144
Std Dev 0.8161
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
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6
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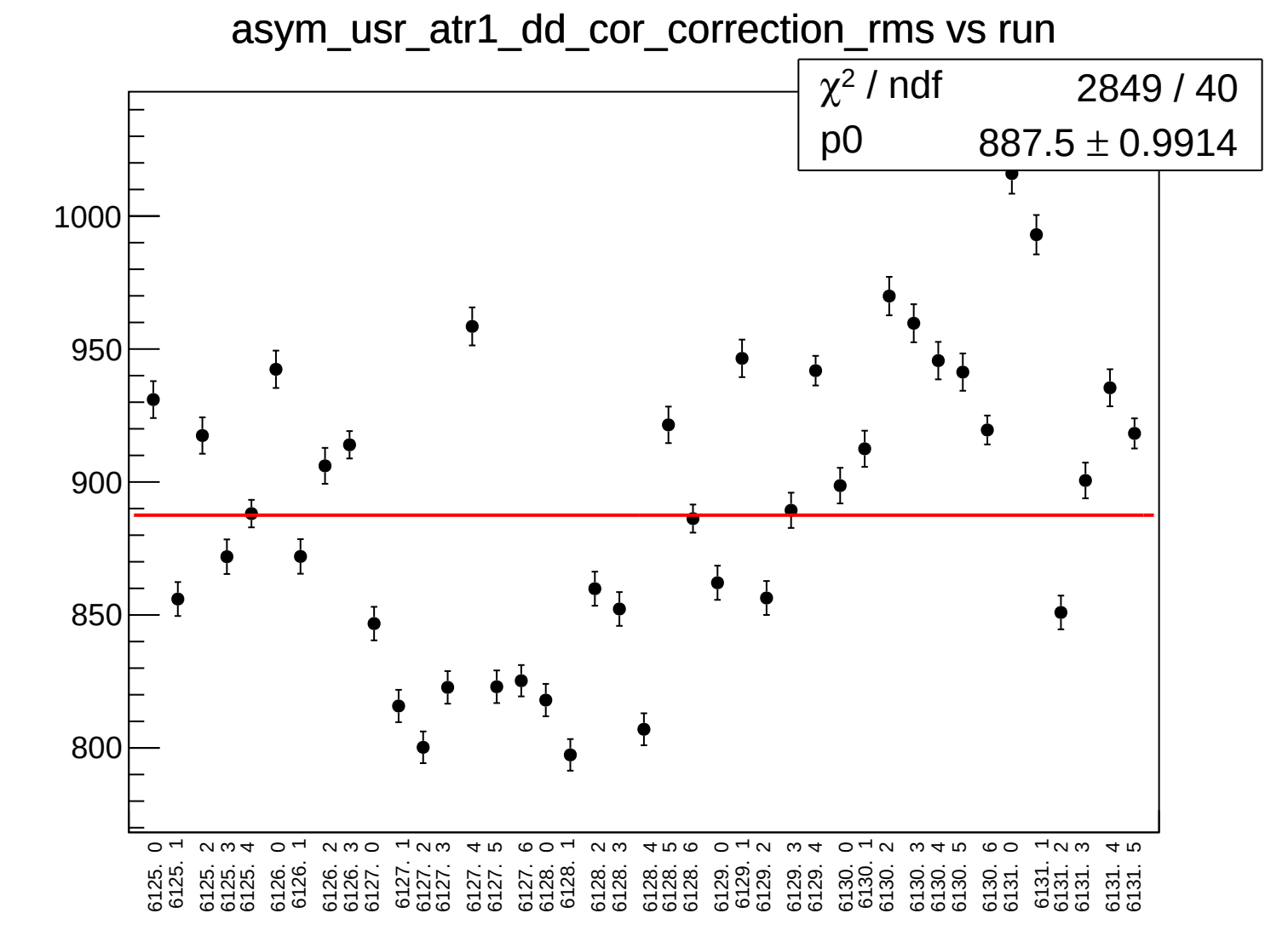
asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 2849 / 40
p0 887.5 ± 0.9914
1000
950
900
850
800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6131. 0
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6131. 2
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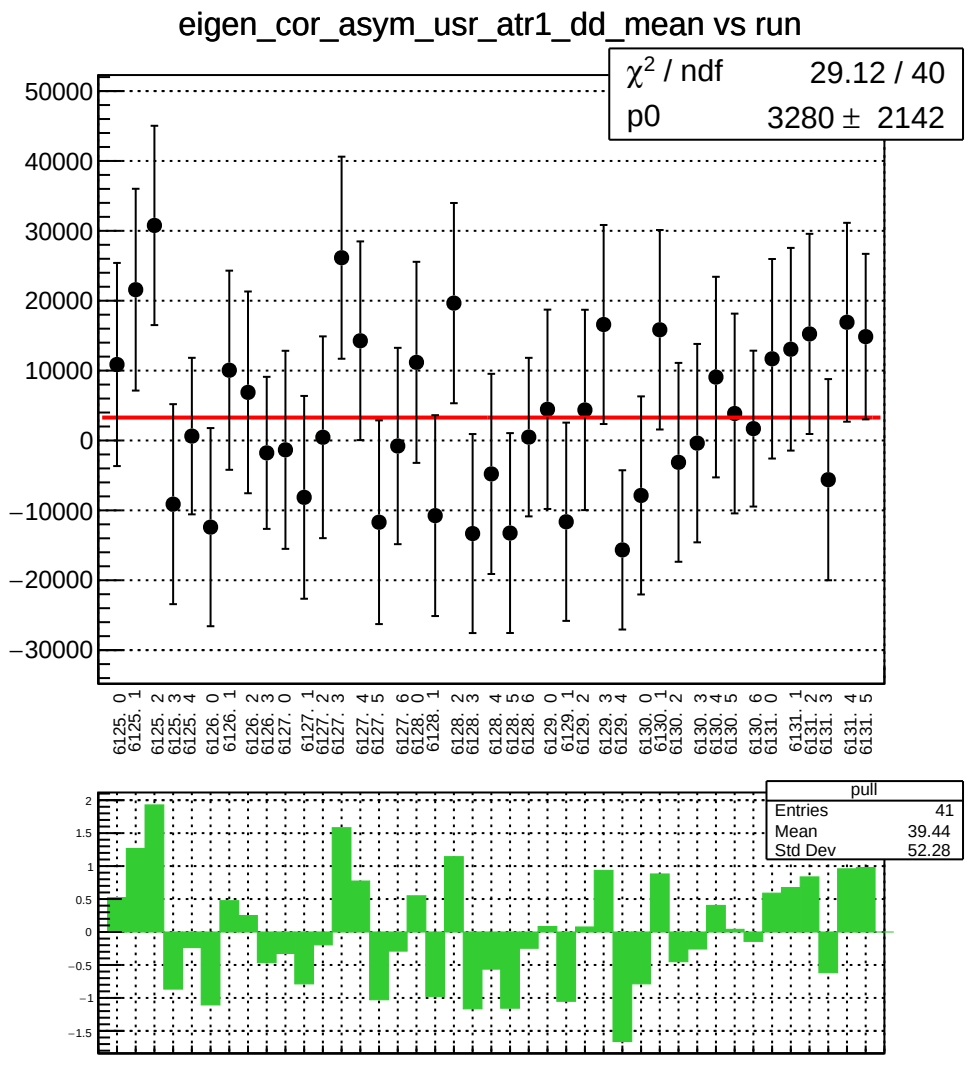
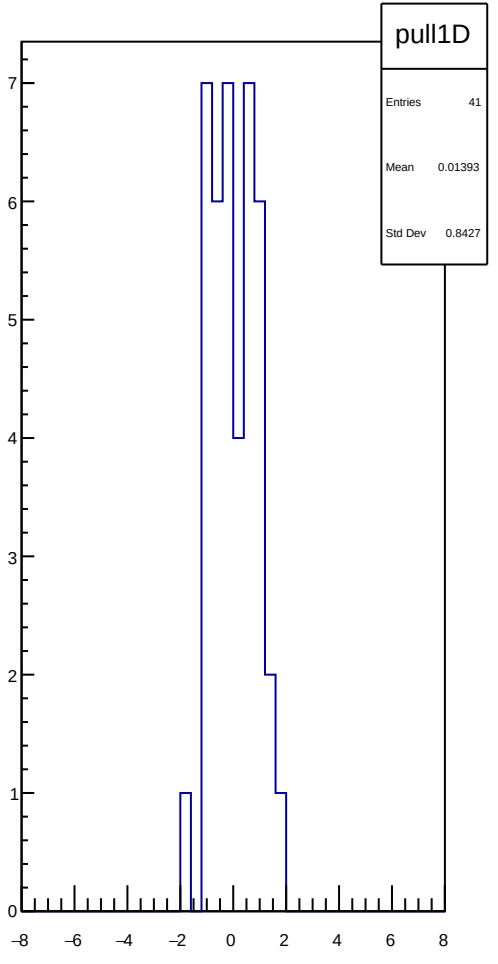
6131. 4
6131. 5


eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 29.12 / 40
p0 3280 ± 2142
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 39.44
Std Dev 52.28
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.01393
Std Dev 0.8427
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
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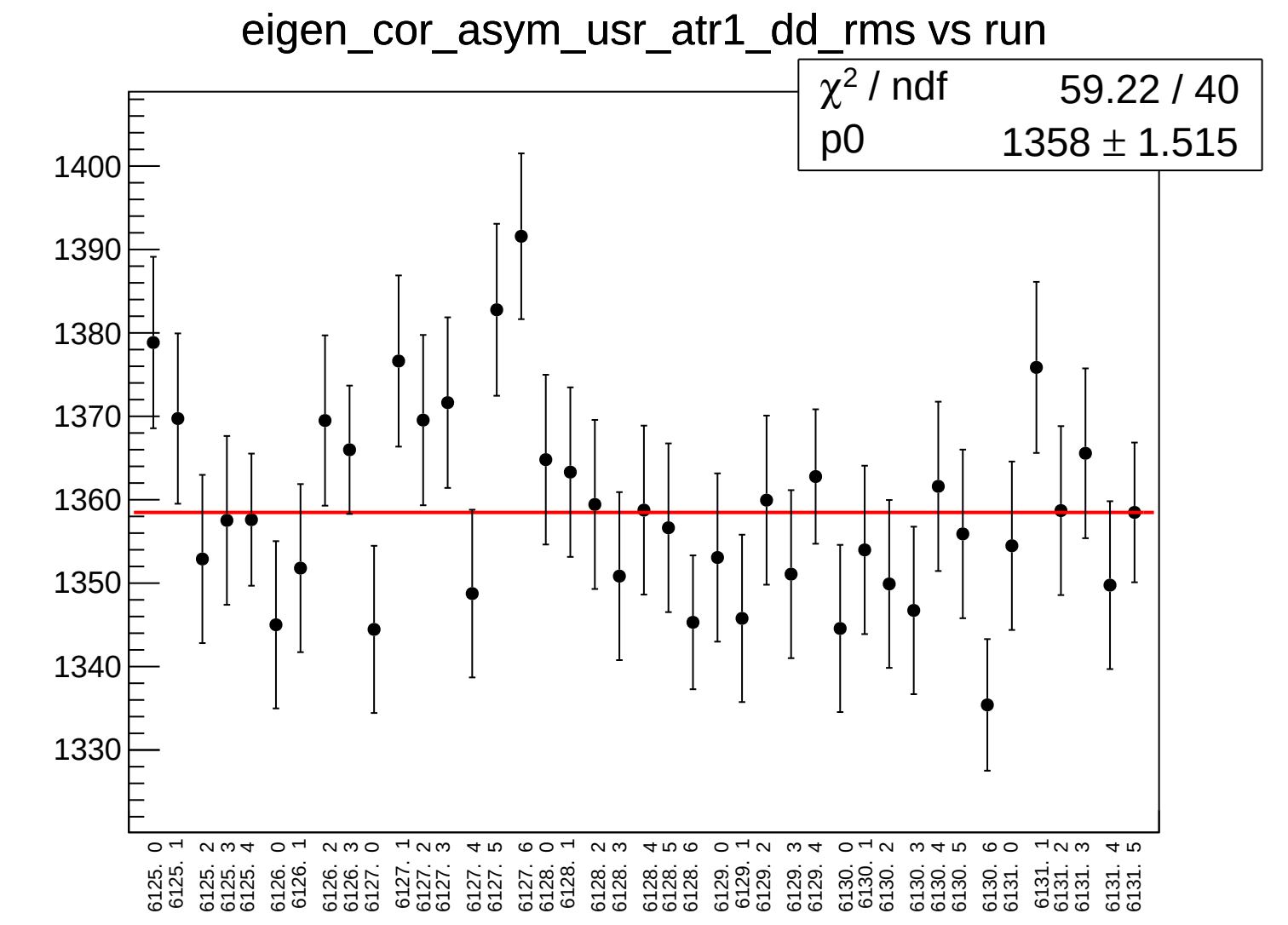
6
8


eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 59.22 / 40
p0 1358 ± 1.515
1400
1390
1380
1370
1360
1350
1340
1330
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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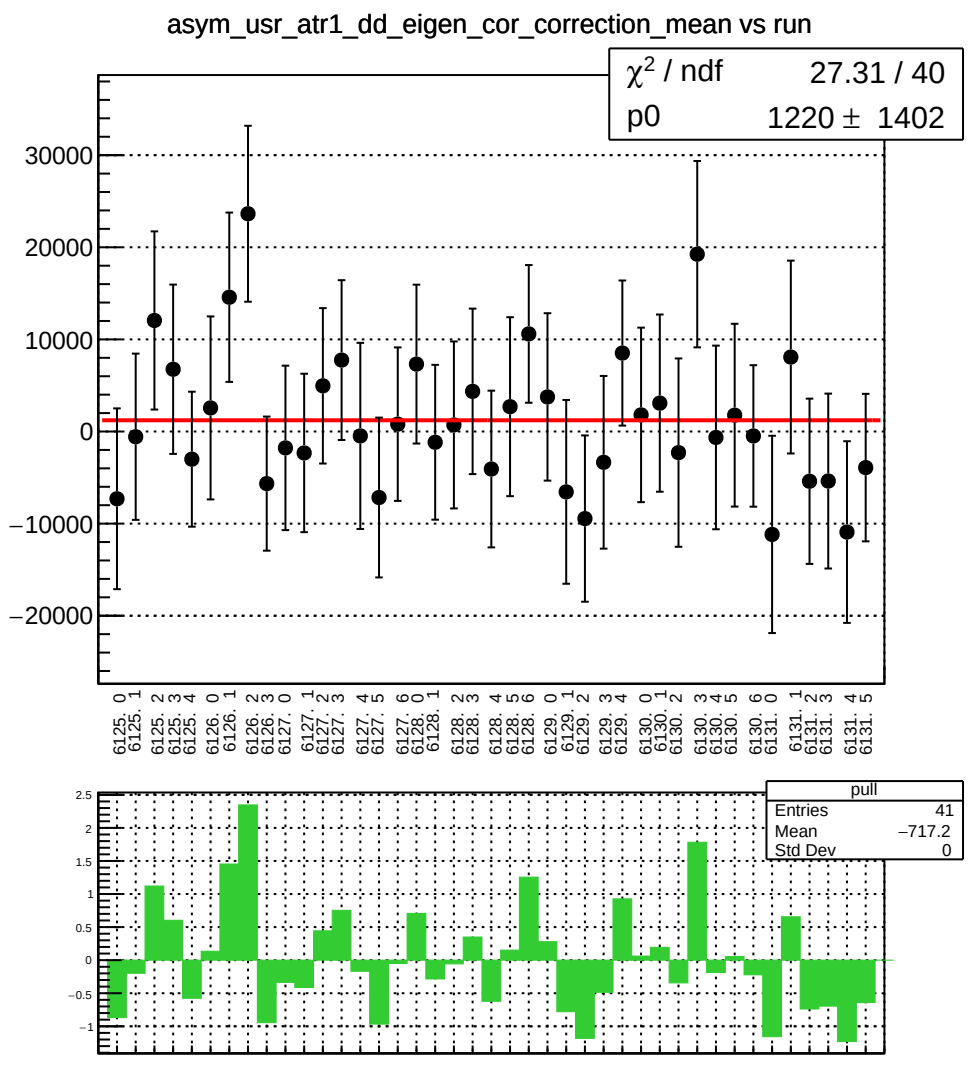
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 27.31 / 40
p0 1220 ± 1402
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6128. 0
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6128. 2
6128. 3
6128. 4
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6129. 2
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6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −717.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.003144
Std Dev 0.8161
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
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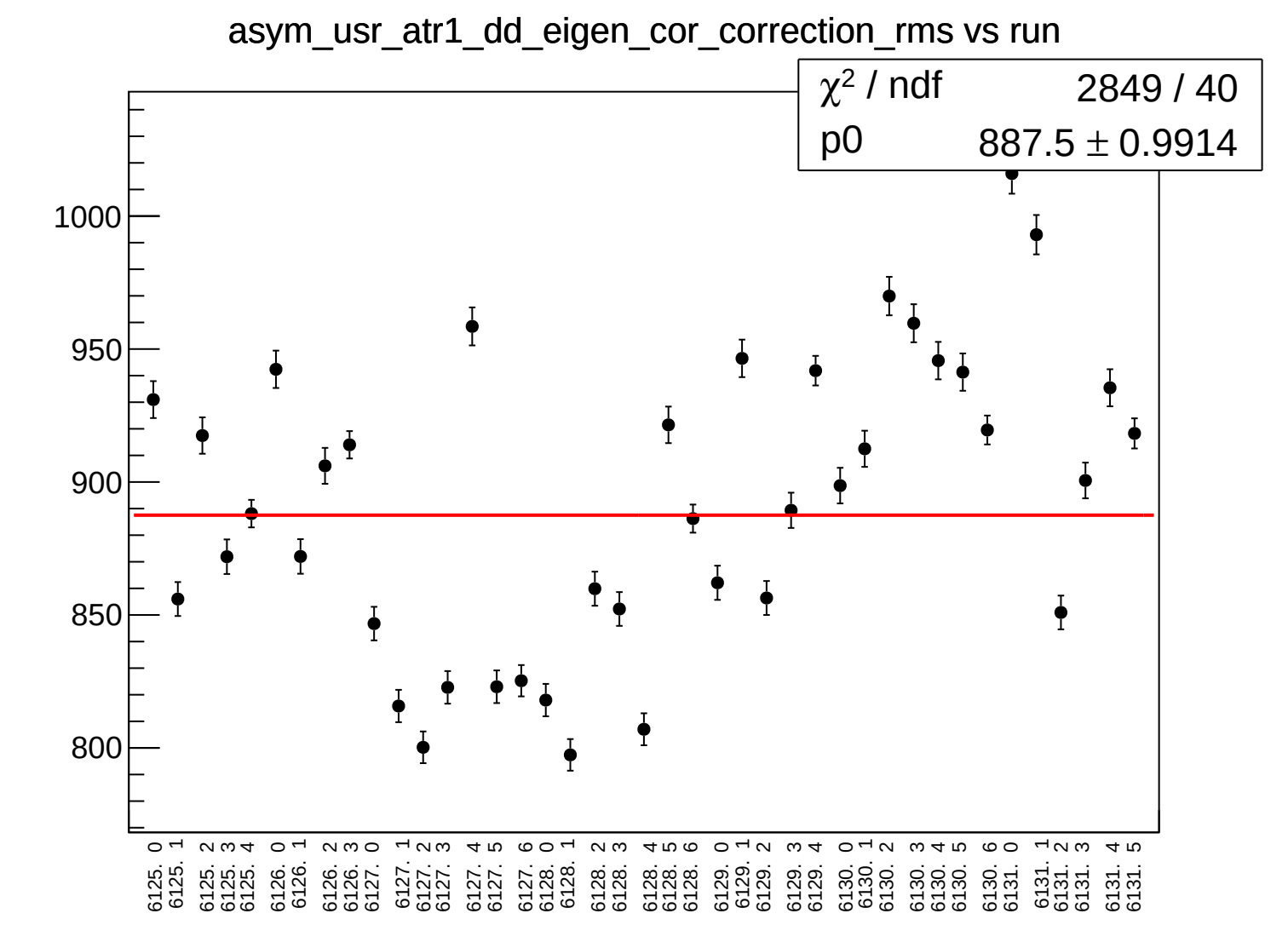
2
4
6
8


asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2849 / 40
p0 887.5 ± 0.9914
1000
950
900
850
800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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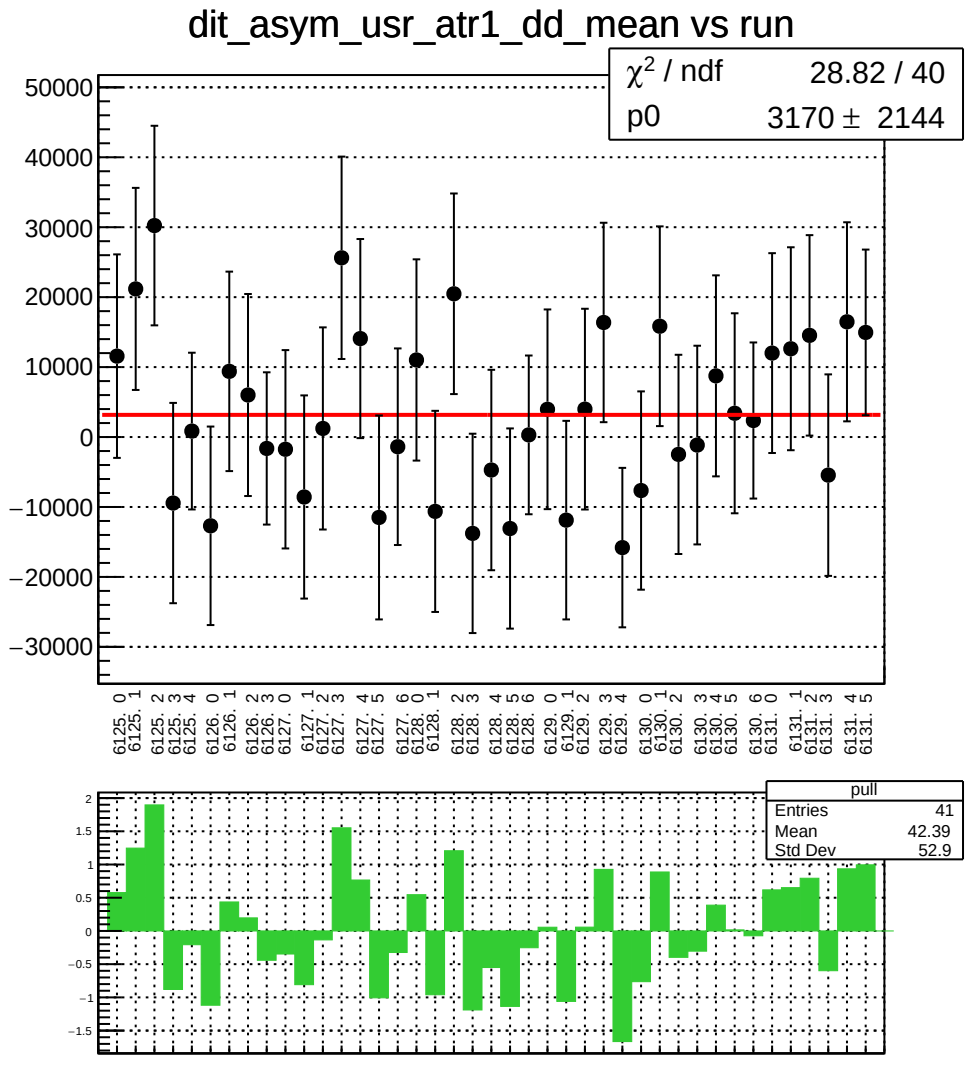
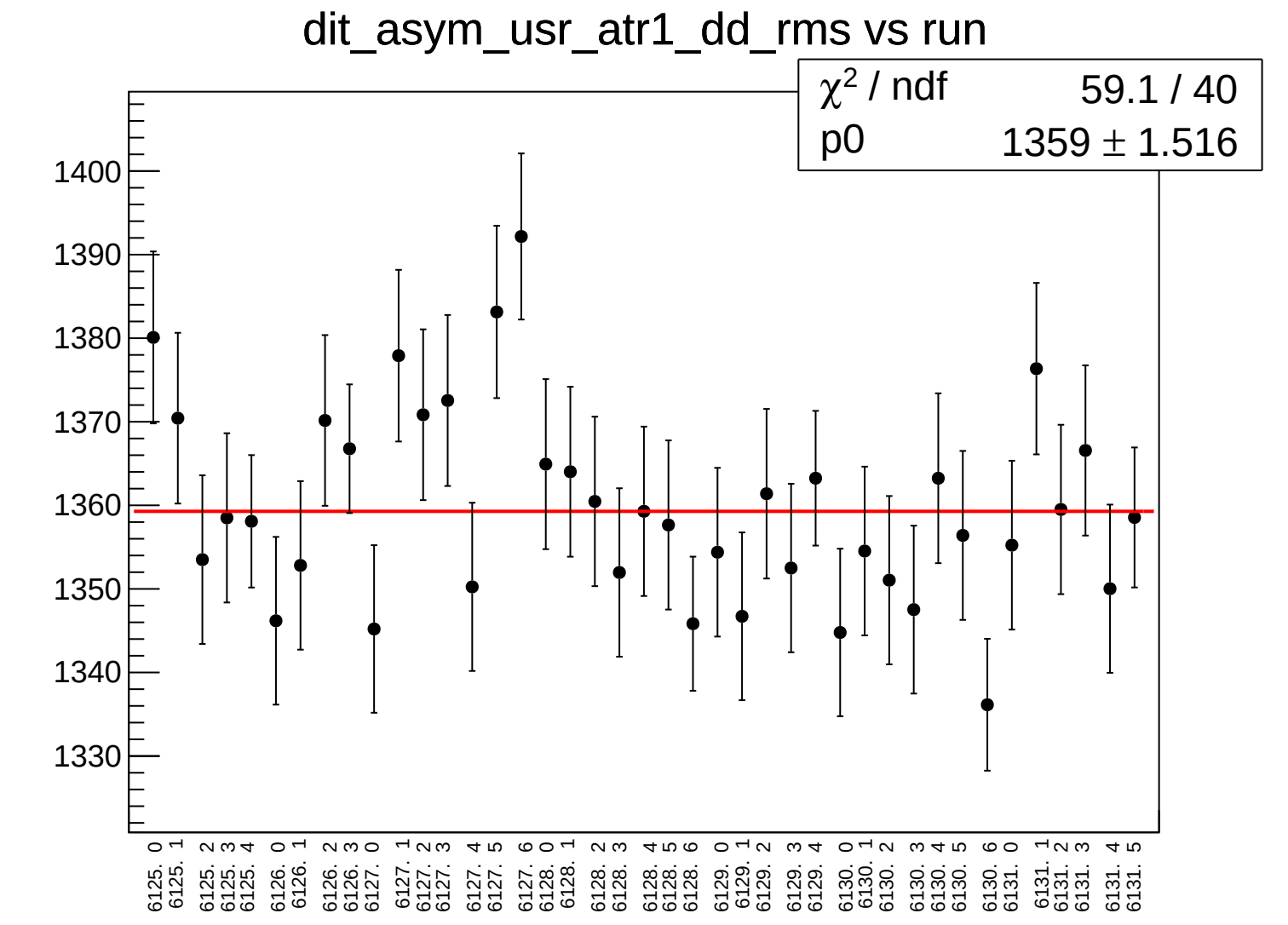
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 28.82 / 40
p0 3170 ± 2144
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 42.39
Std Dev 52.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.01307
Std Dev 0.8383
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 59.1 / 40
p0 1359 ± 1.516
1400
1390
1380
1370
1360
1350
1340
1330
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
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6127. 2
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6127. 6
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6128. 5
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6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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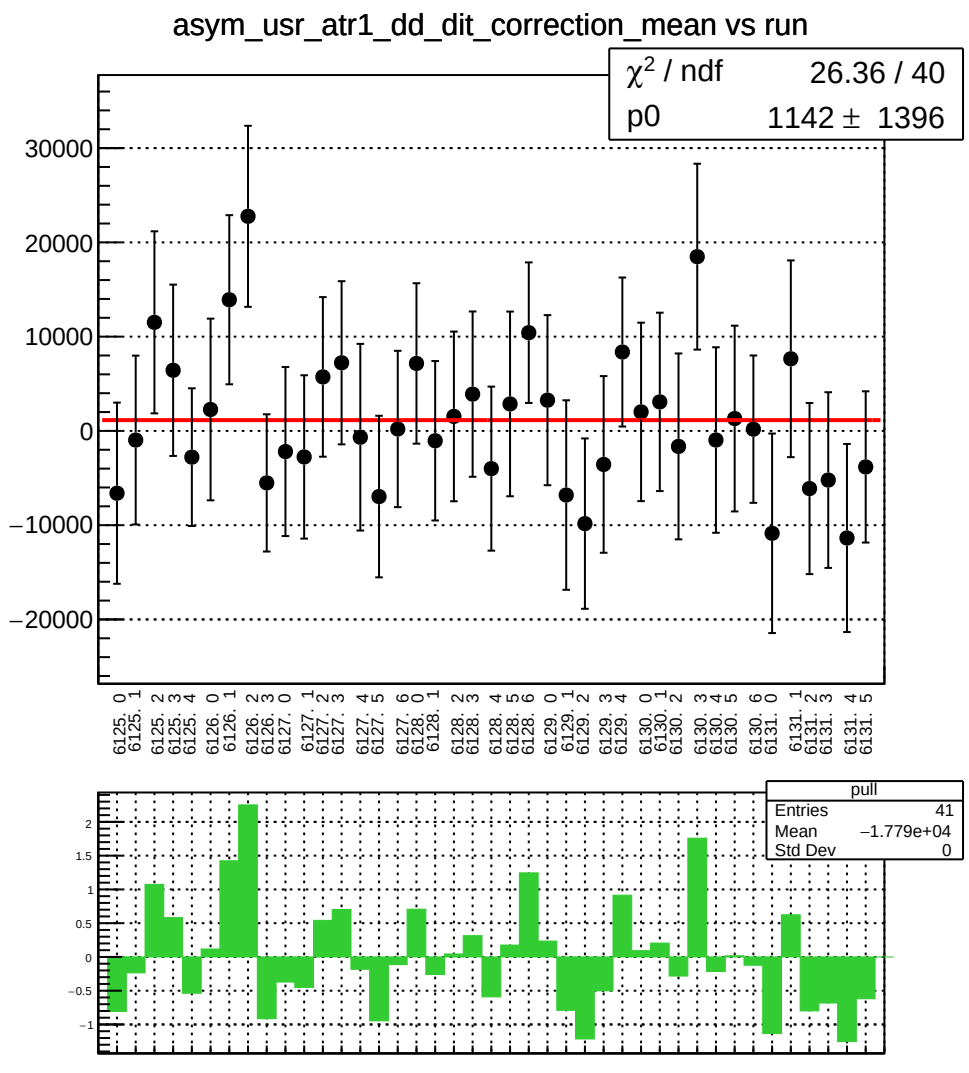
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 26.36 / 40
p0 1142 ± 1396
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
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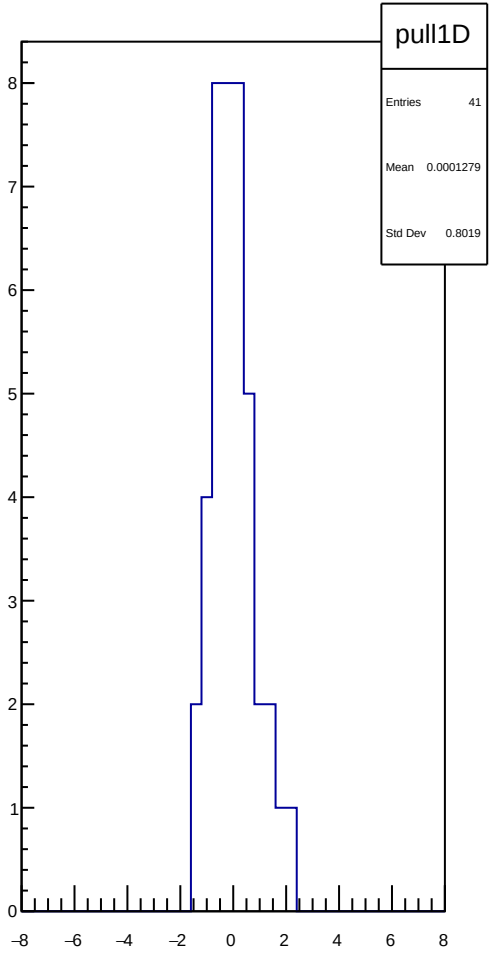
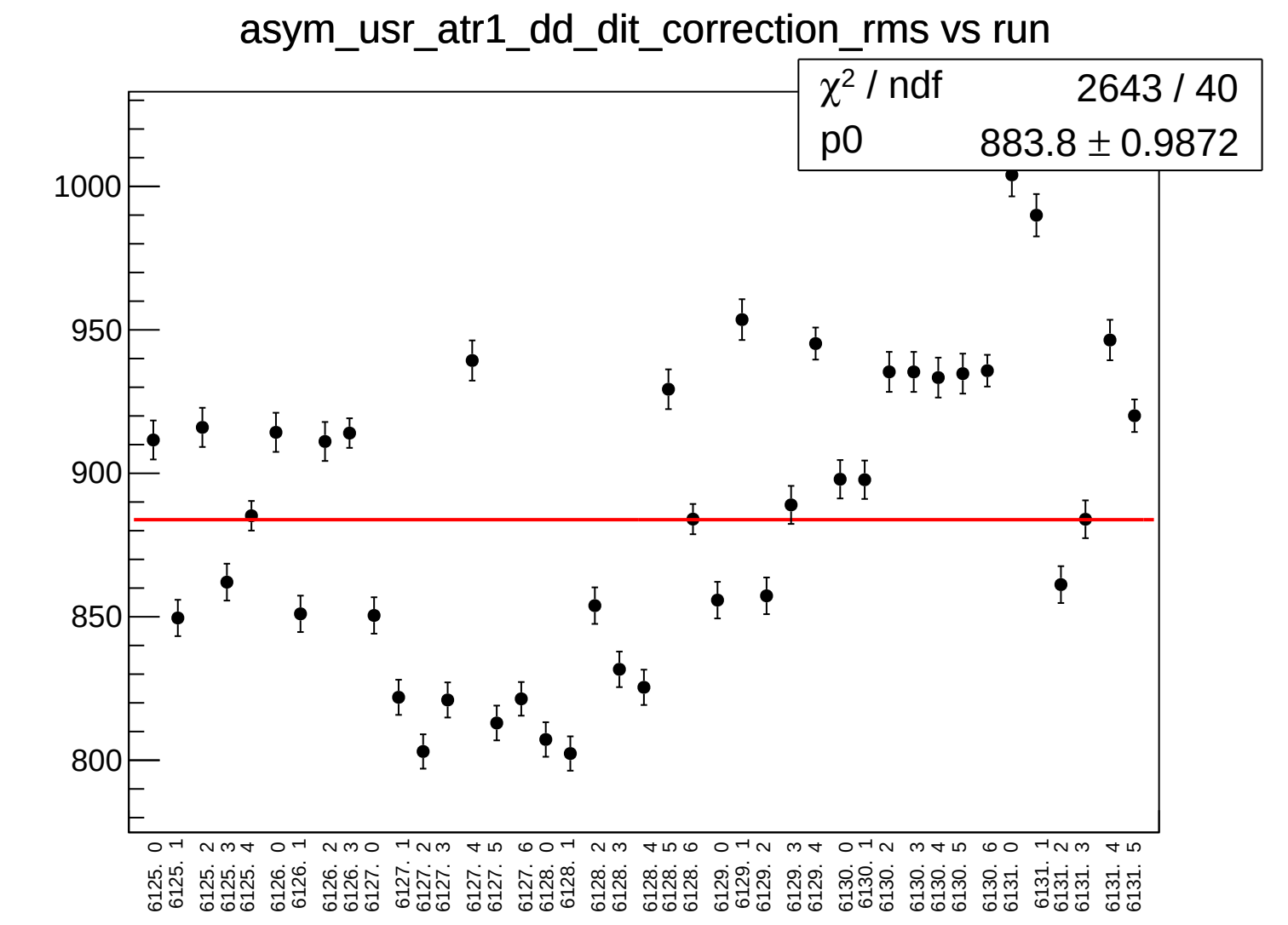
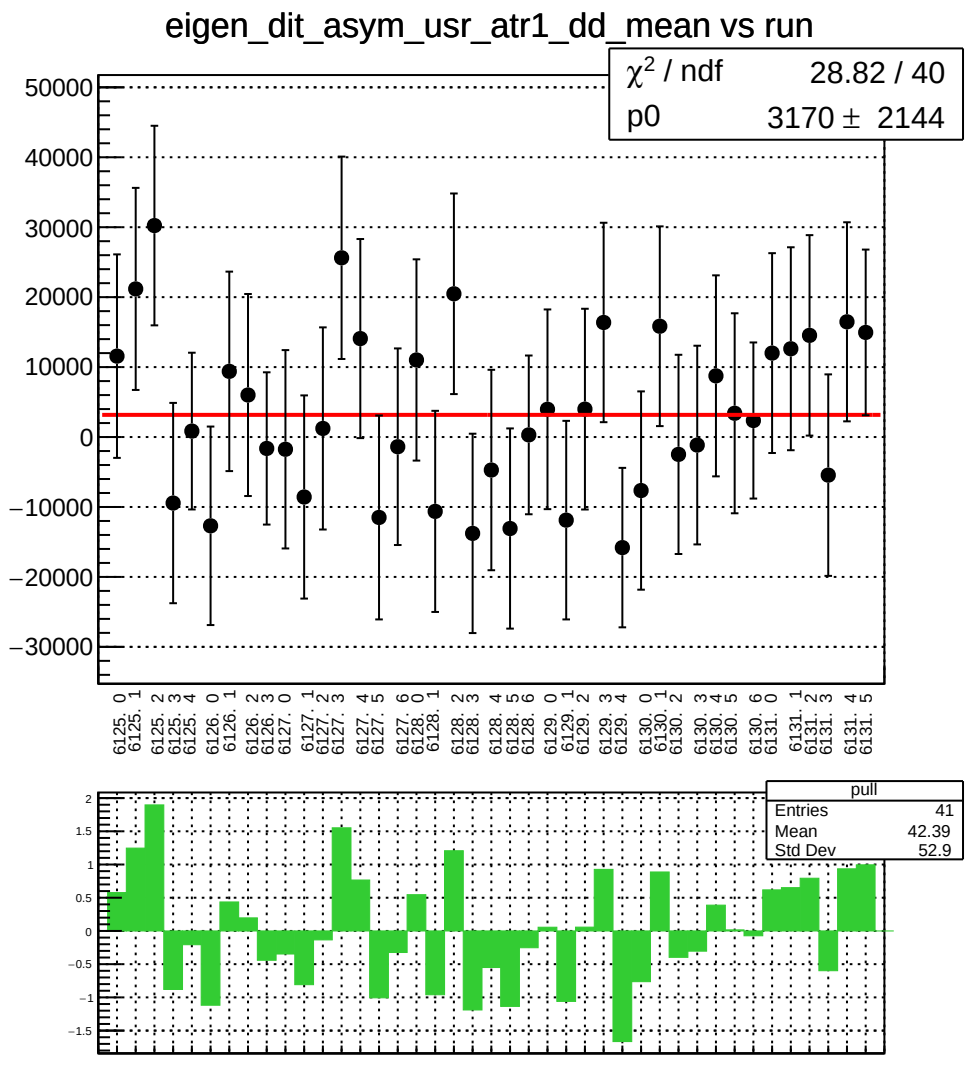
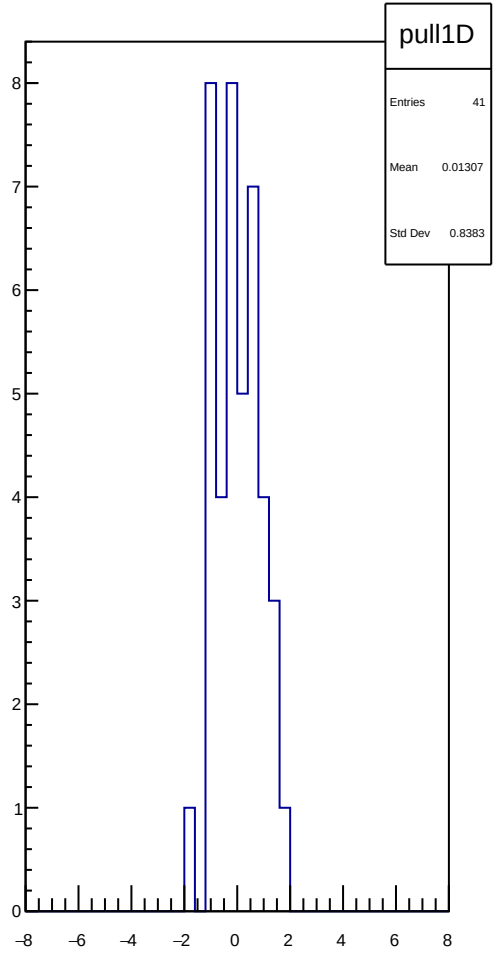
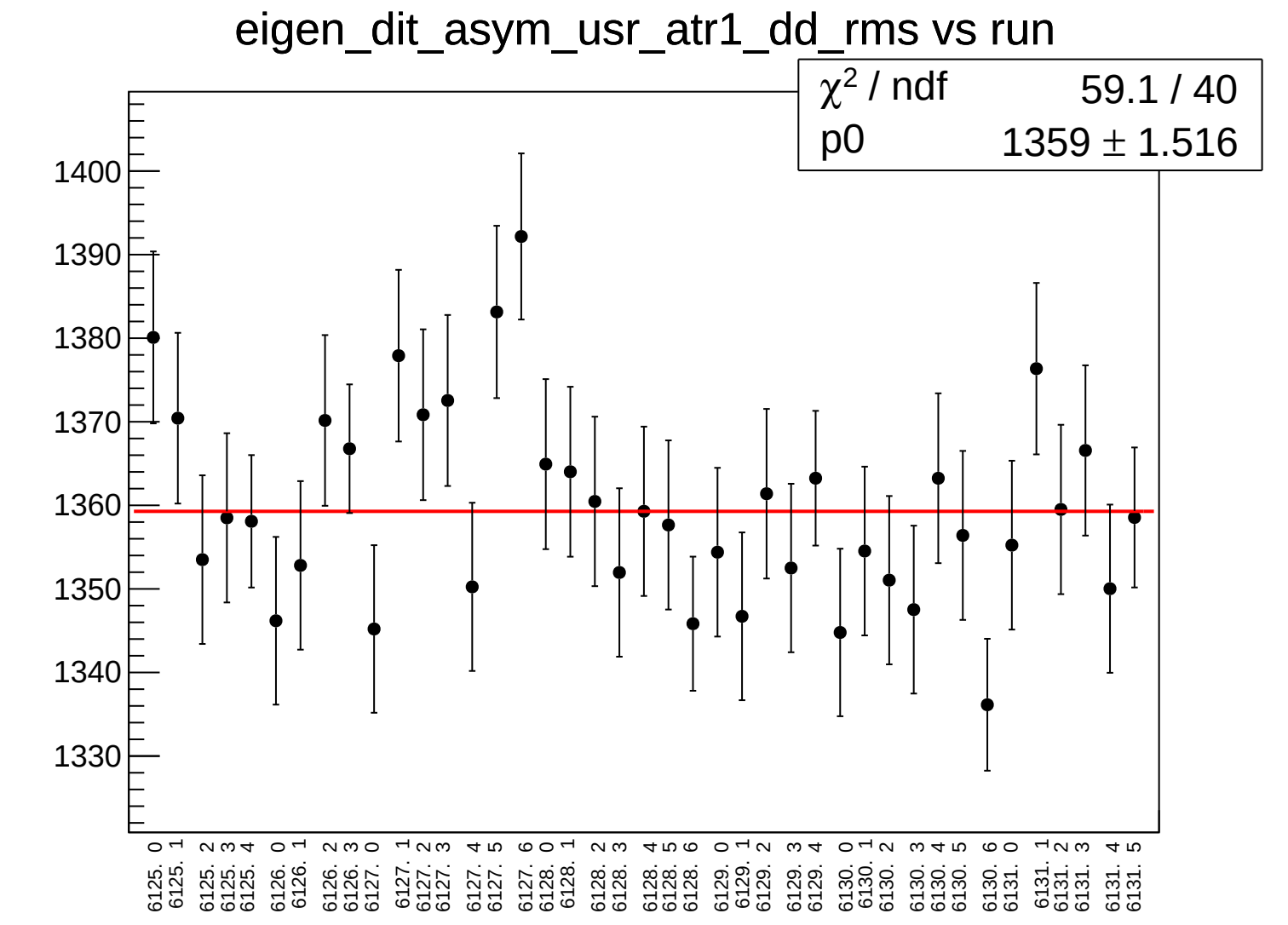
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1.779e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

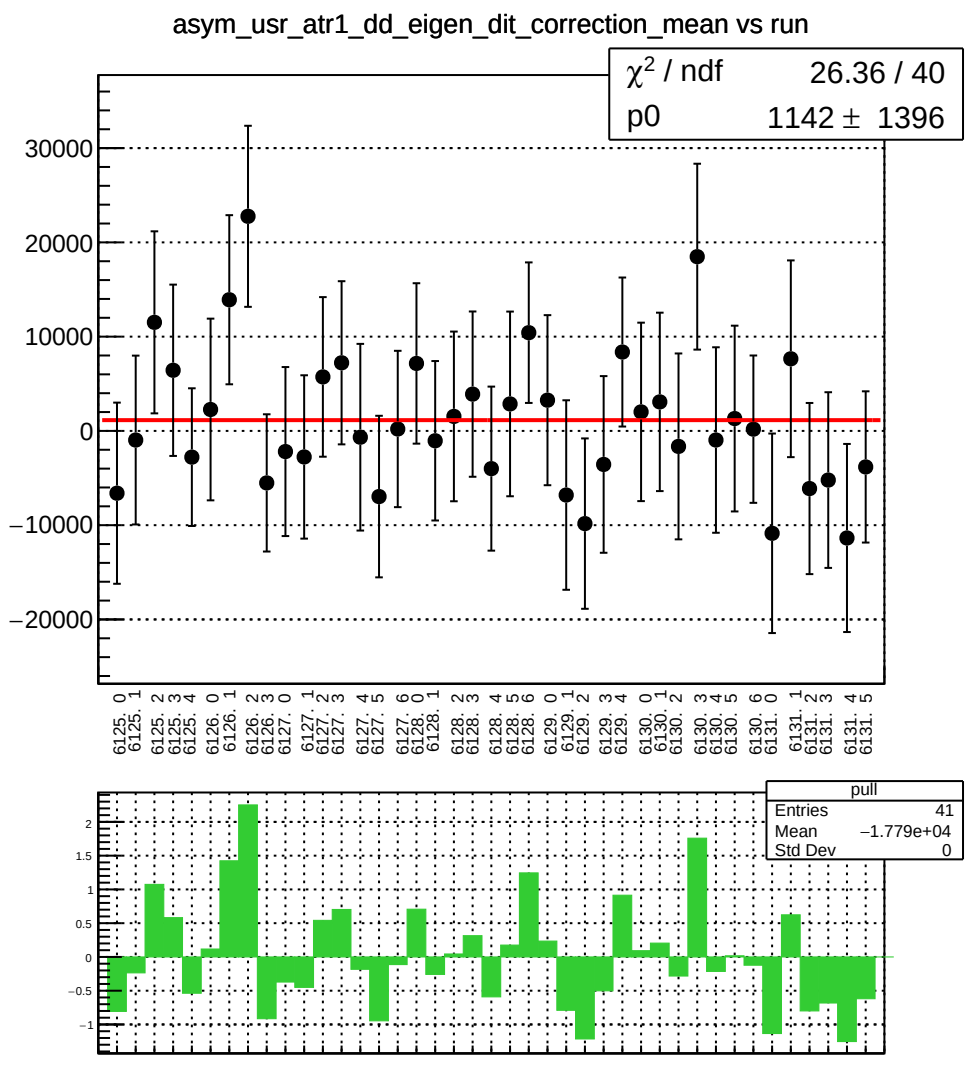

pull1D
Entries 41
Mean 0.0001279
Std Dev 0.8019
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

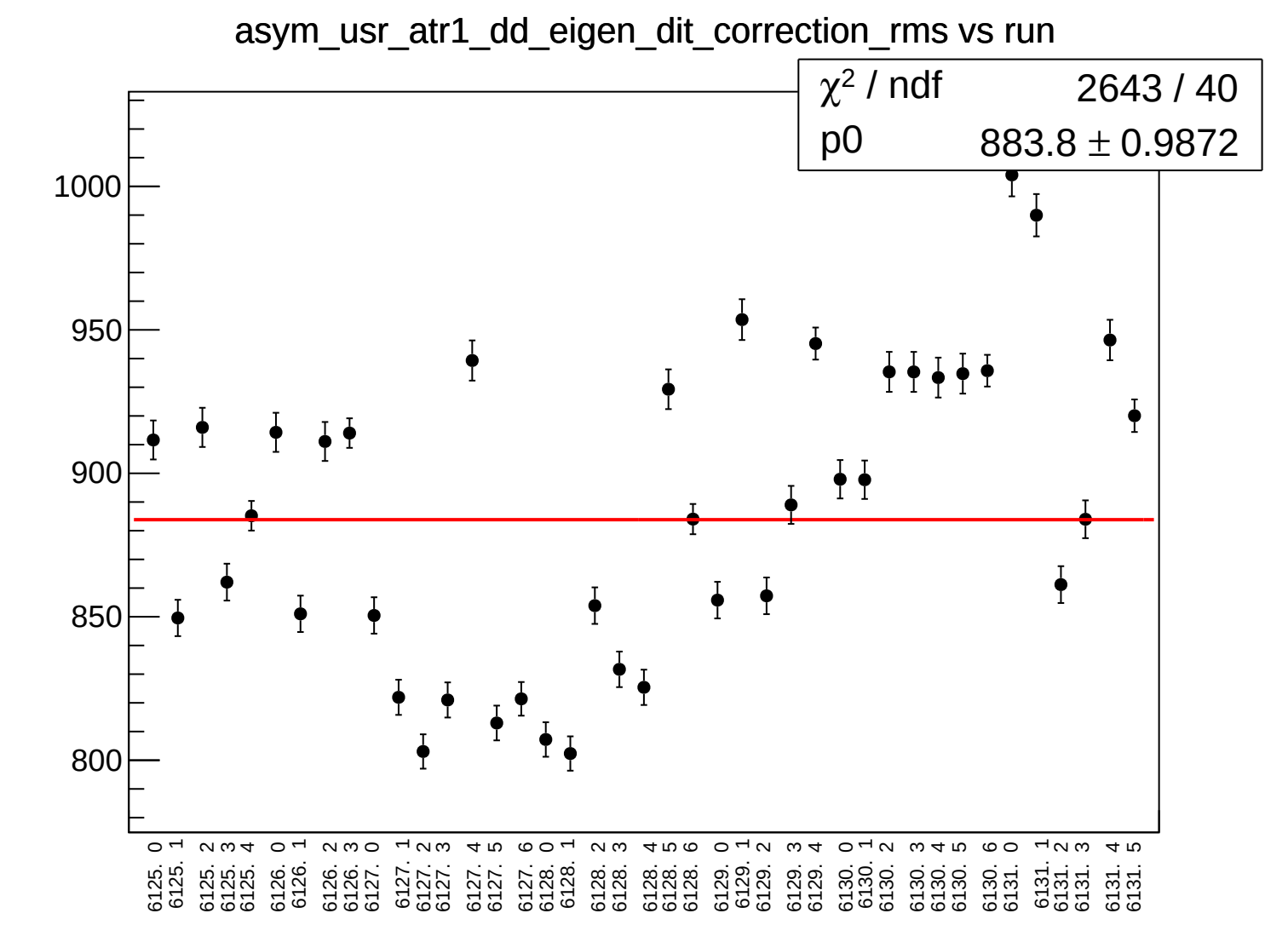

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 2643 / 40
p0 883.8 ± 0.9872
1000
950
900
850
800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

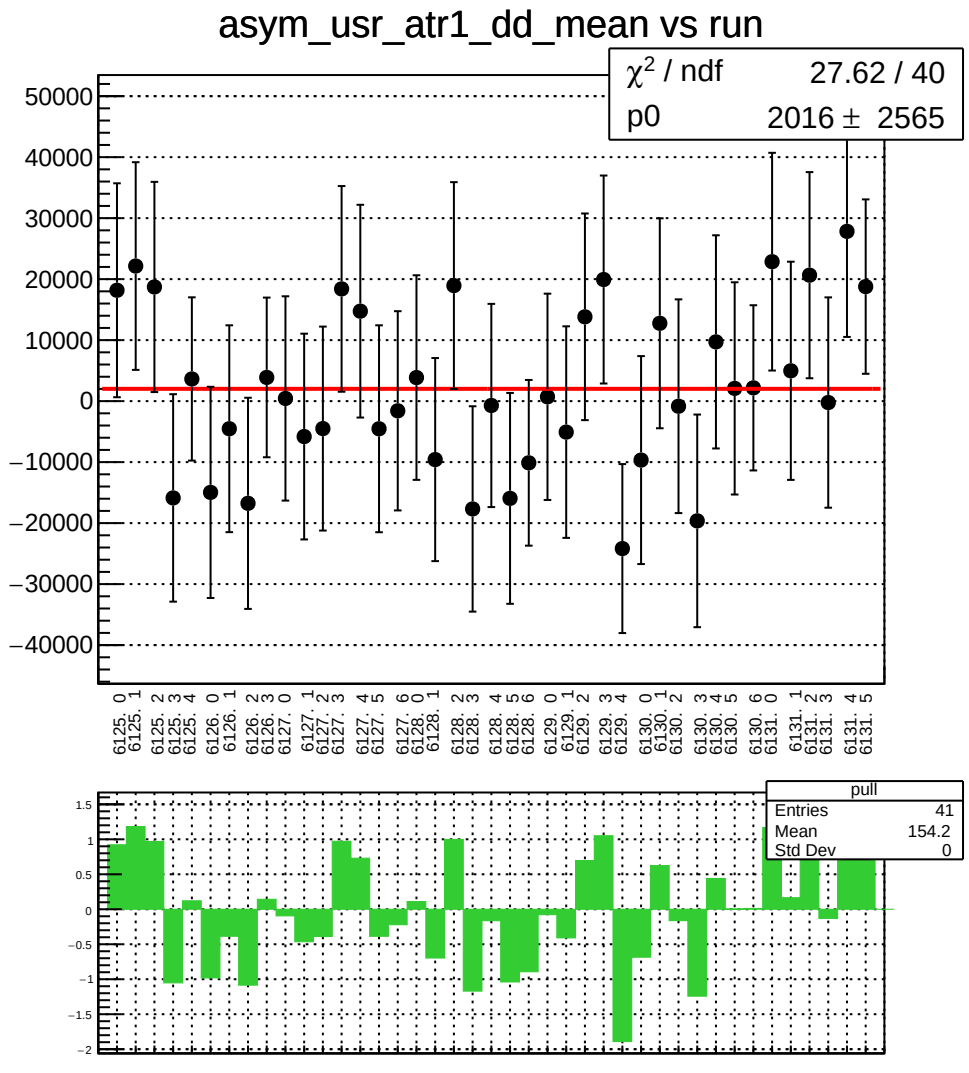

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 28.82 / 40
p0 3170 ± 2144
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 42.39
Std Dev 52.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

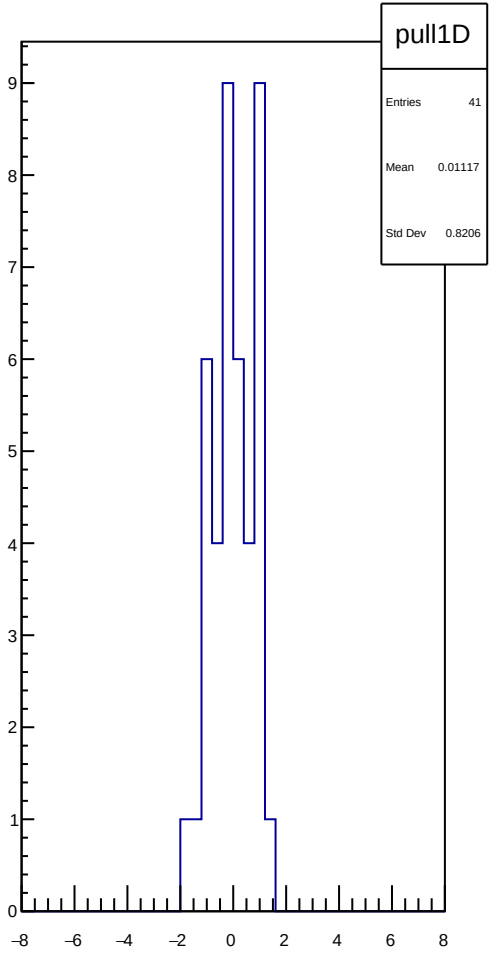

pull1D
Entries 41
Mean 0.01307
Std Dev 0.8383
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

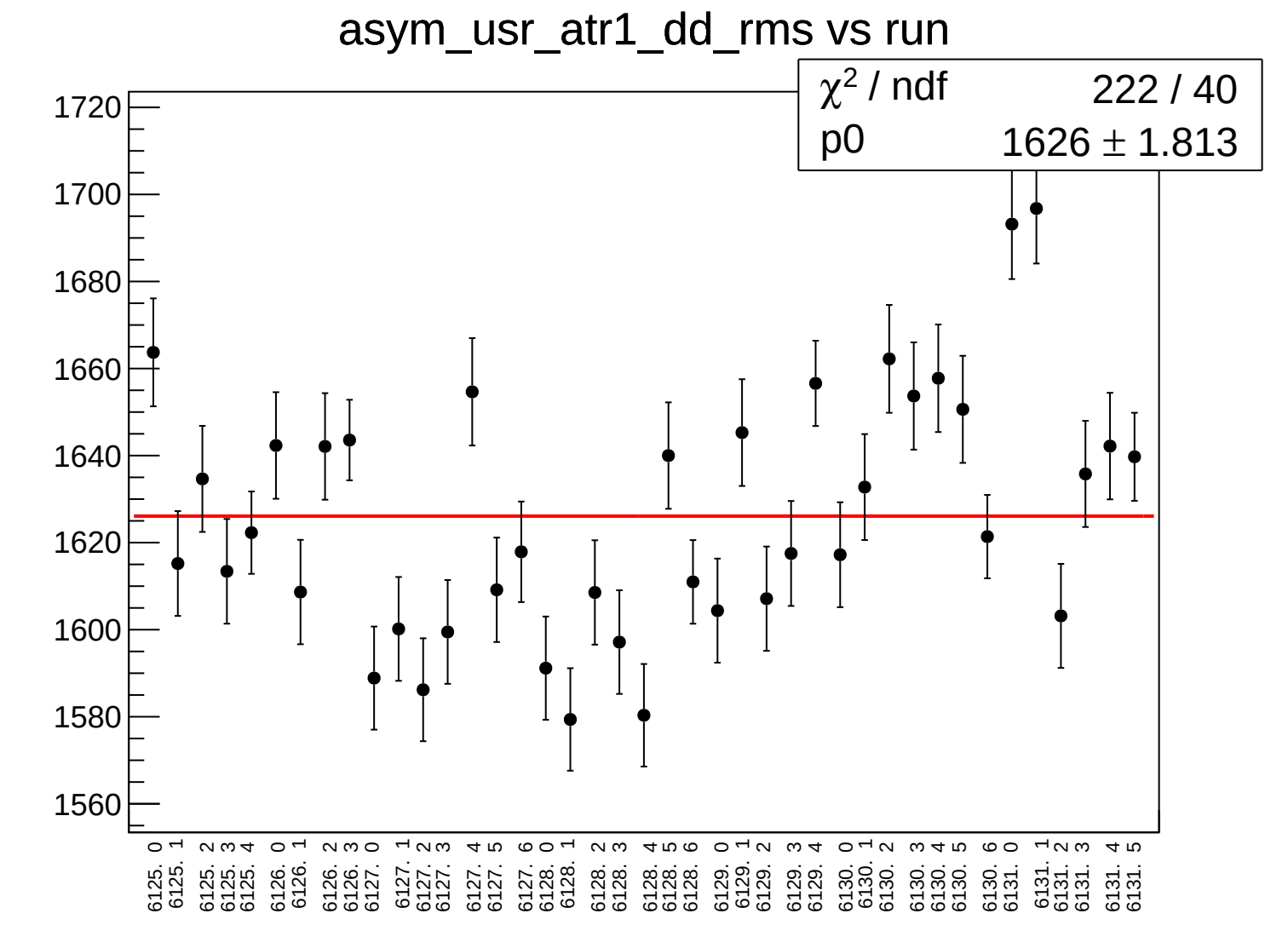

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 59.1 / 40
p0 1359 ± 1.516
1400
1390
1380
1370
1360
1350
1340
1330
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

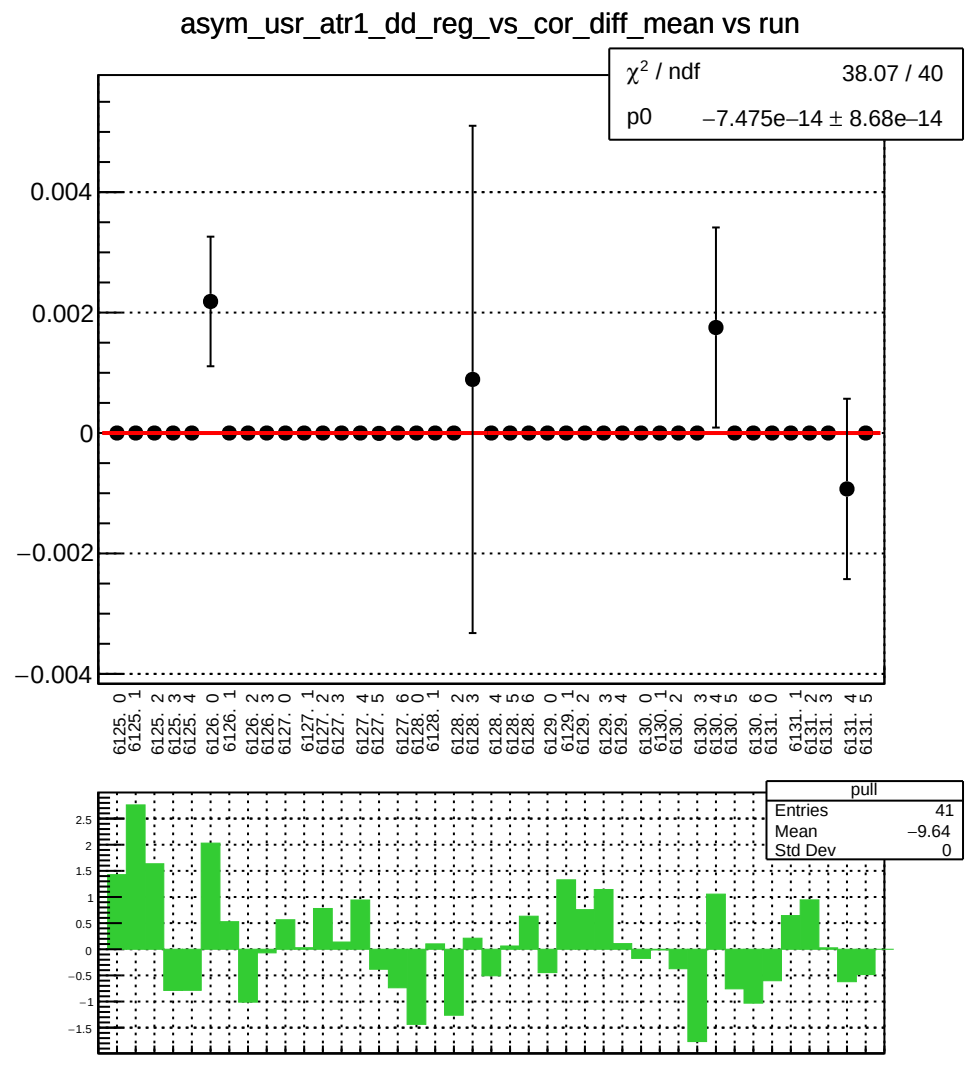

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 26.36 / 40
p0 1142 ± 1396
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1.779e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.0001279
Std Dev 0.8019
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

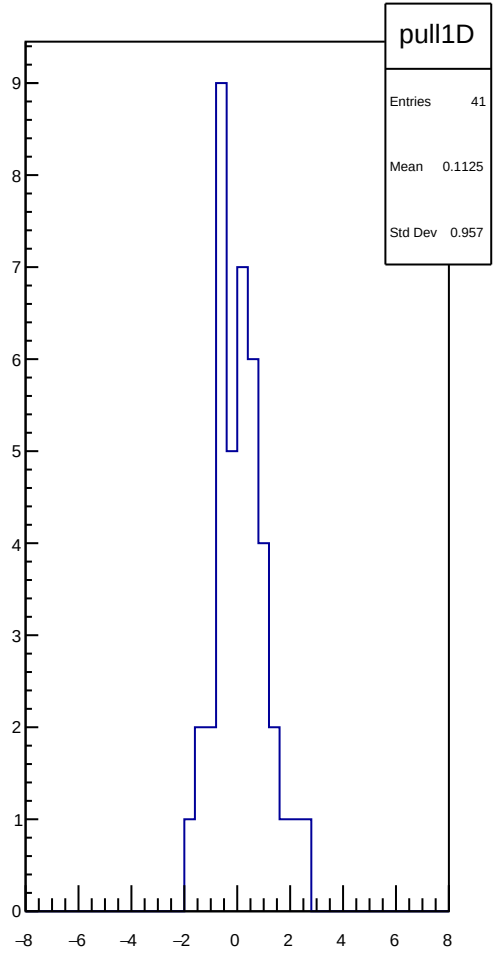

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2643 / 40
p0 883.8 ± 0.9872
1000
950
900
850
800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

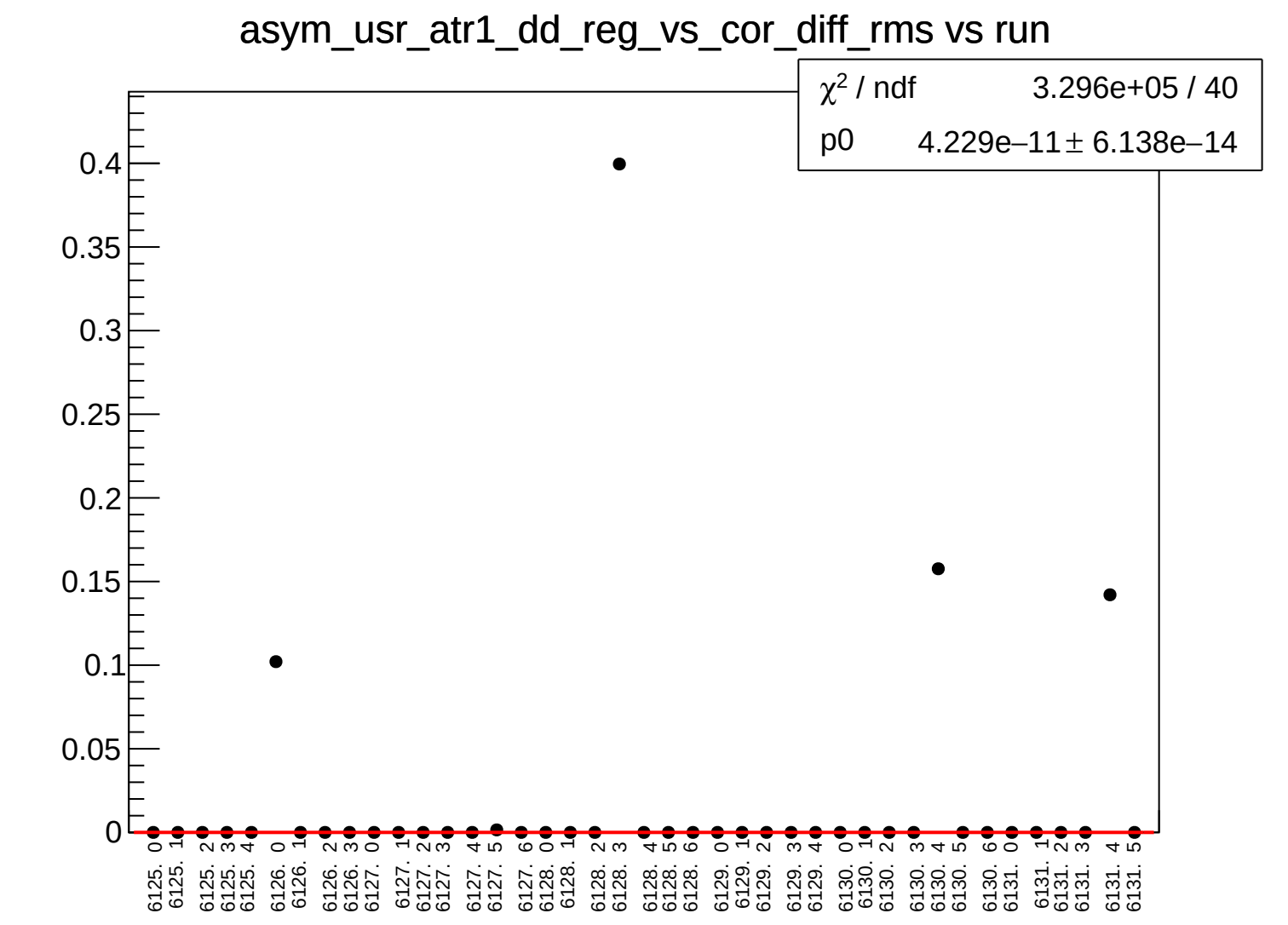

asym_usr_atr1_dd_mean vs run
χ² / ndf 27.62 / 40
p0 2016 ± 2565
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 154.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

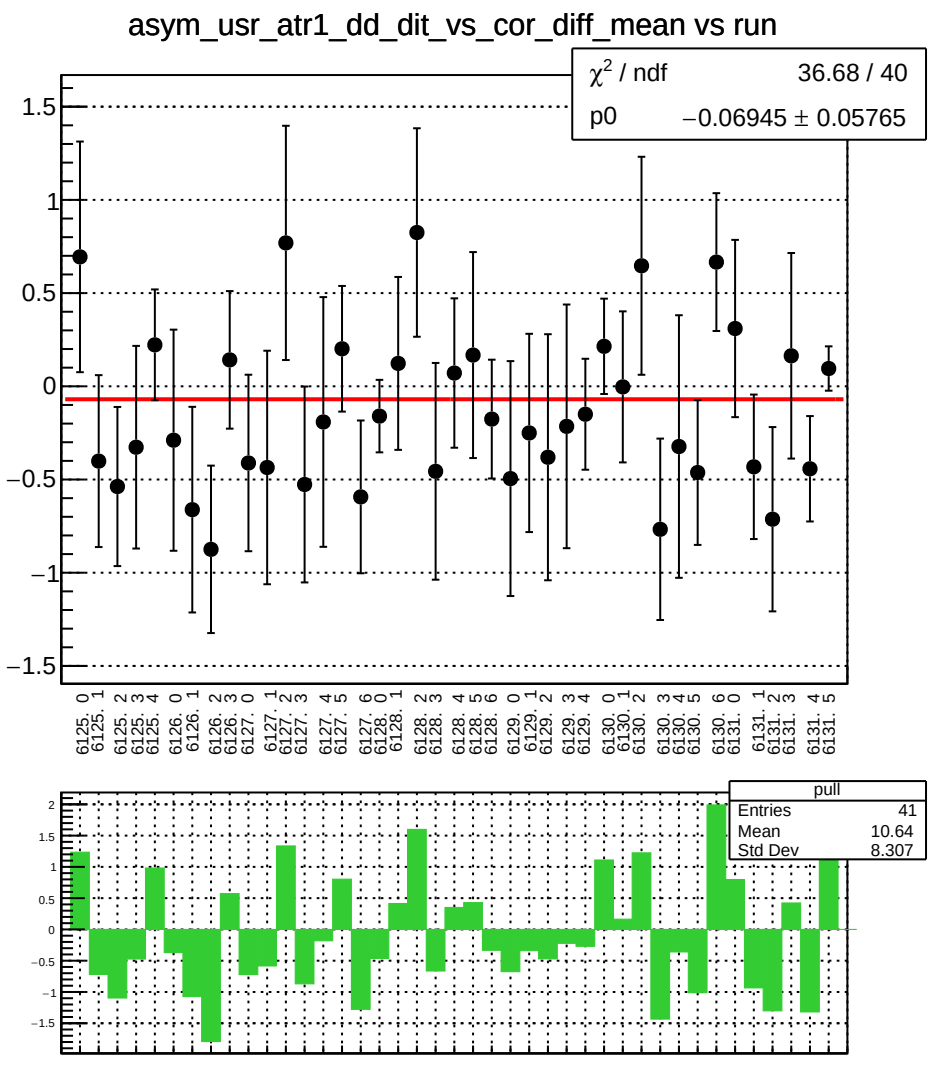

pull1D
Entries 41
Mean 0.01117
Std Dev 0.8206
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

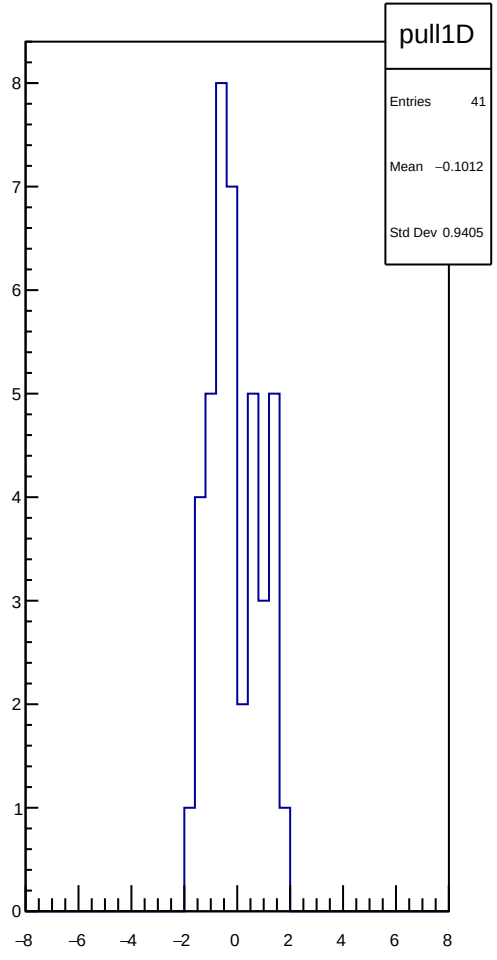

asym_usr_atr1_dd_rms vs run
χ² / ndf 222 / 40
p0 1626 ± 1.813
1720
1700
1680
1660
1640
1620
1600
1580
1560
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

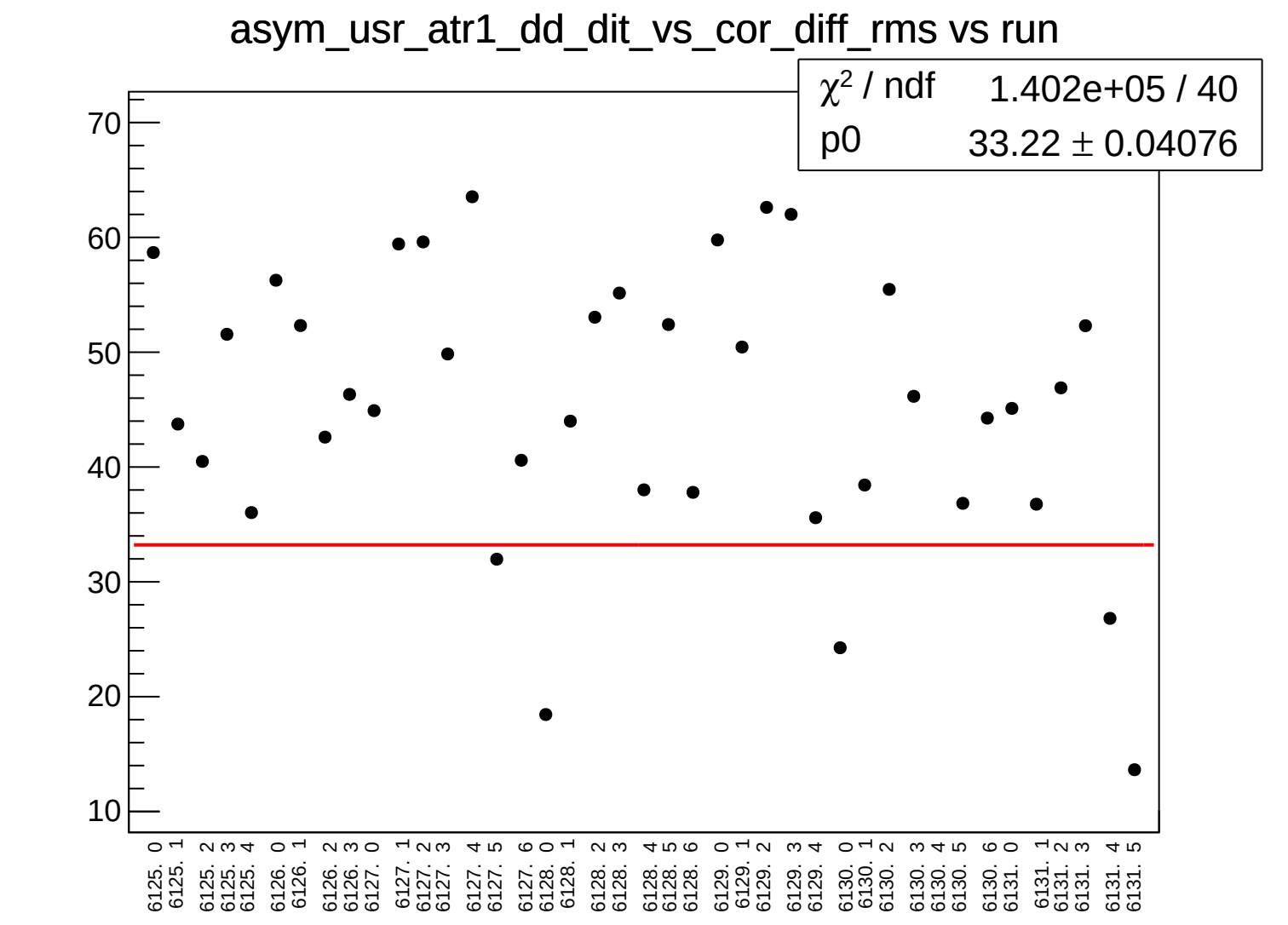

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 38.07 / 40
p0 −7.475e−14 ± 8.68e−14
0.004
0.002
0
−0.002
−0.004
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −9.64
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

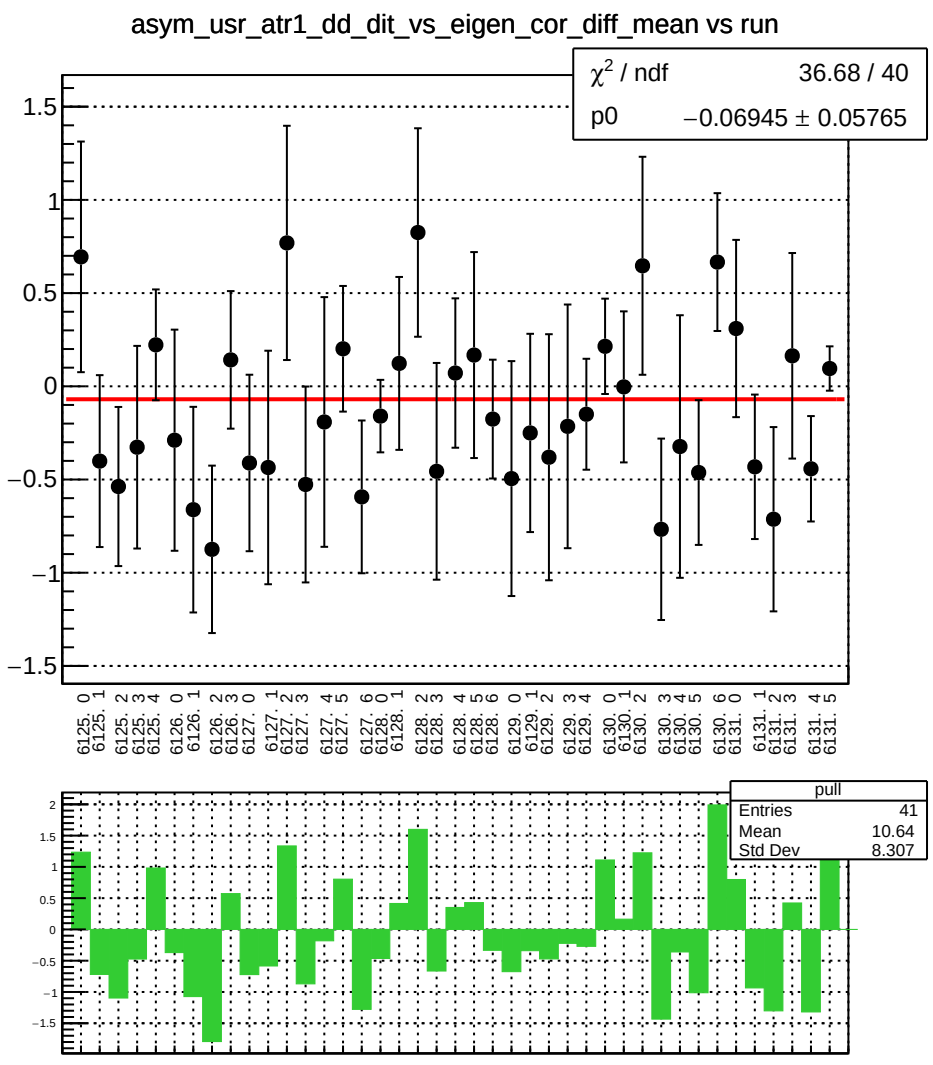

pull1D
Entries 41
Mean 0.1125
Std Dev 0.957
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

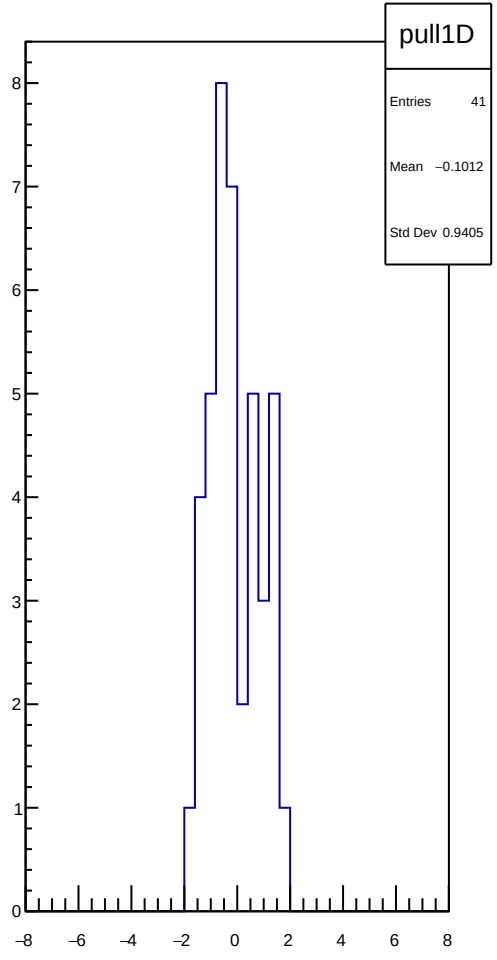

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.296e+05 / 40
p0 4.229e−11 ± 6.138e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

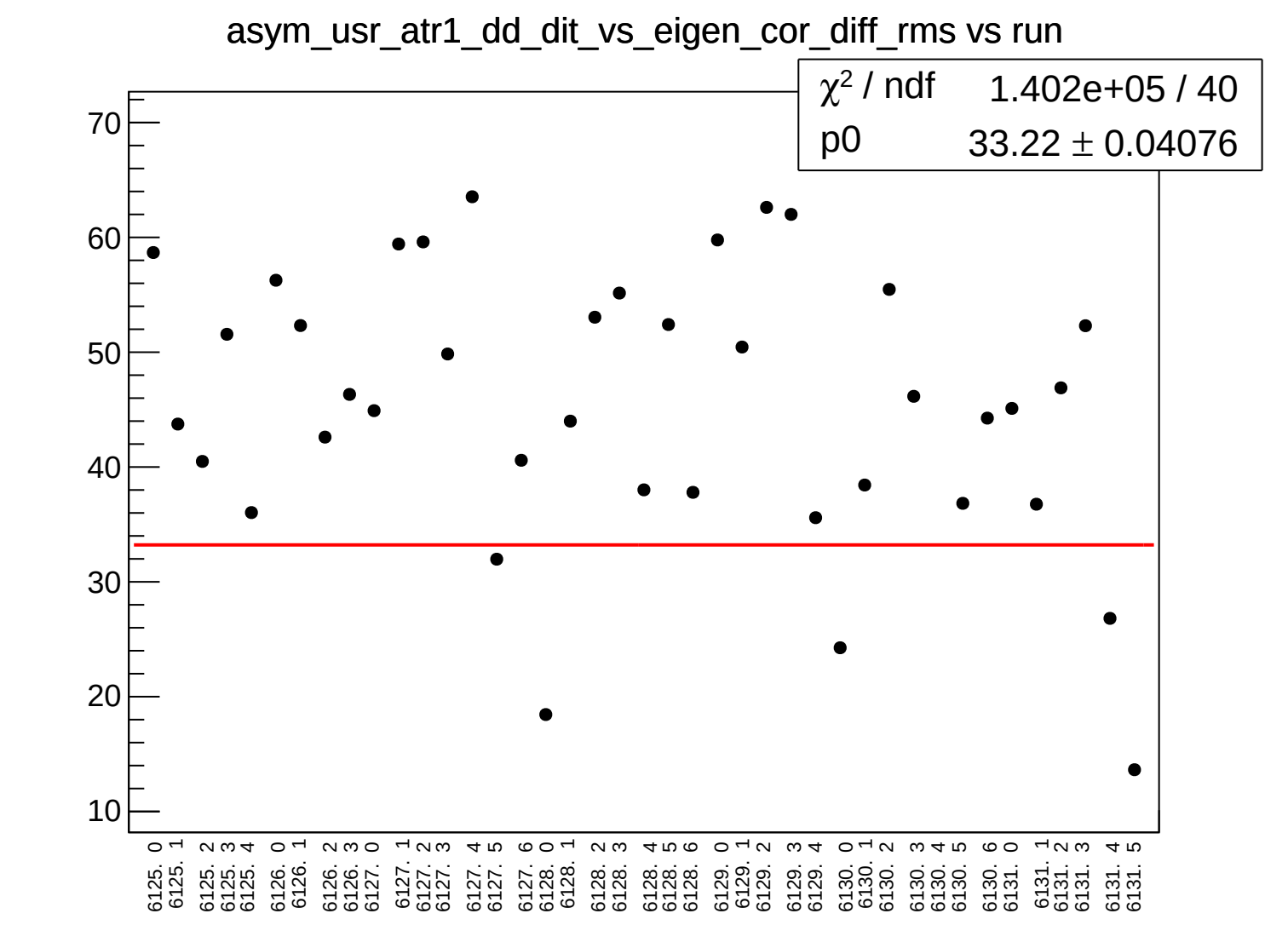

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 36.68 / 40
p0 −0.06945 ± 0.05765
pull
Entries 41
Mean 10.64
Std Dev 8.307

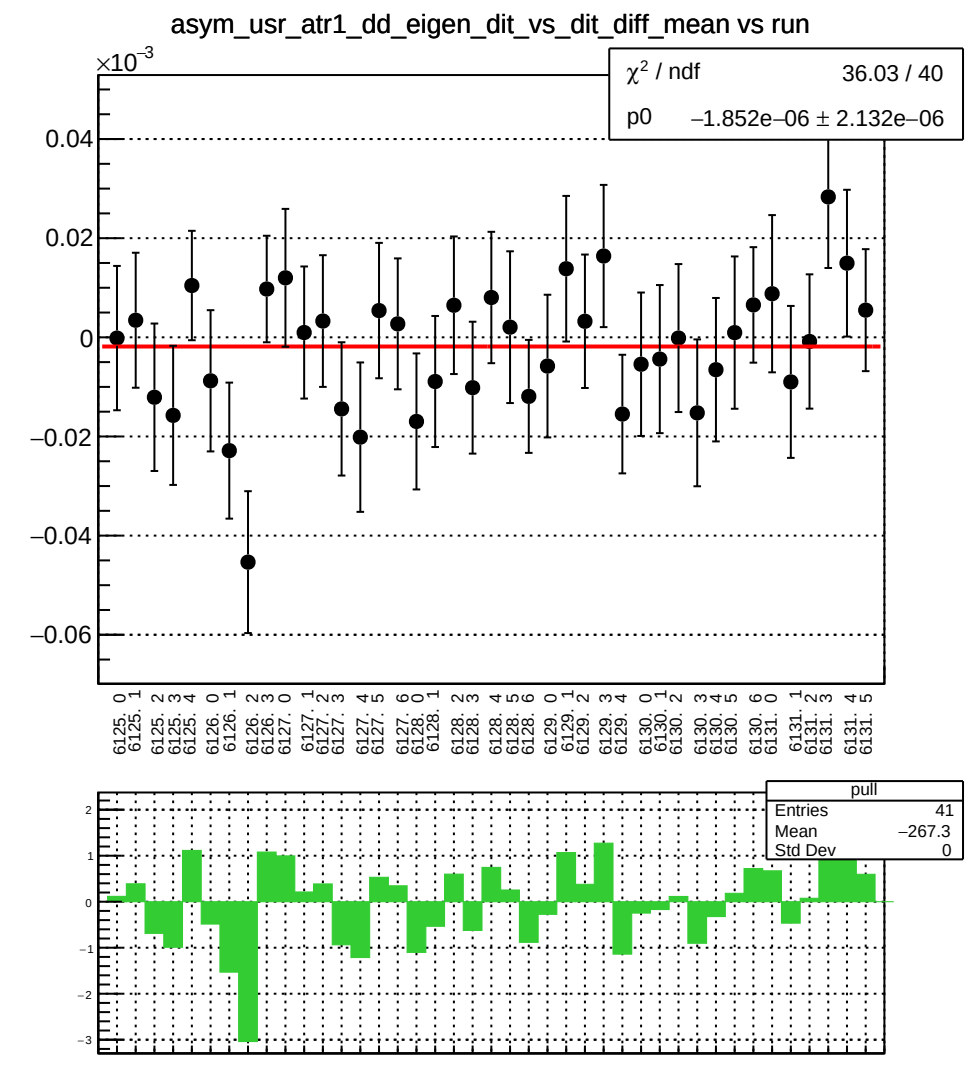

pull1D
Entries 41
Mean −0.1012
Std Dev 0.9405

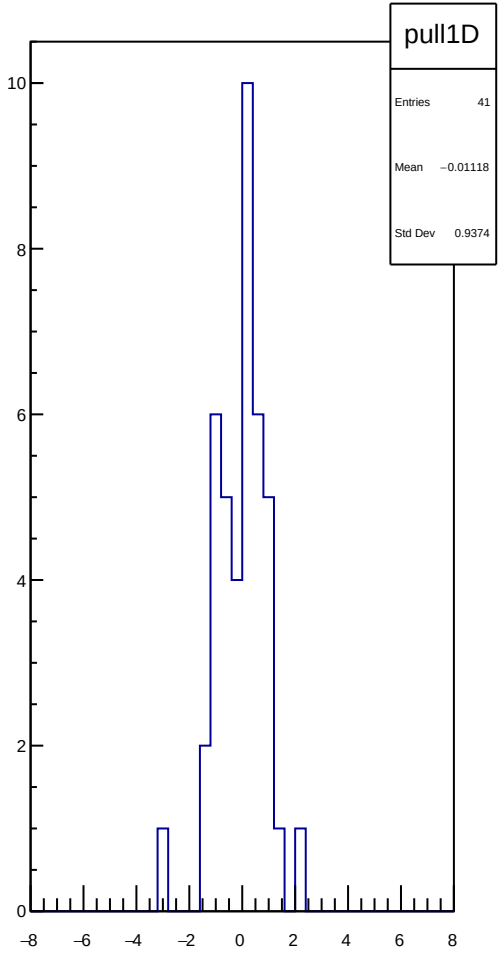

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.402e+05 / 40
p0 33.22 ± 0.04076
70
60
50
40
30
20
10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

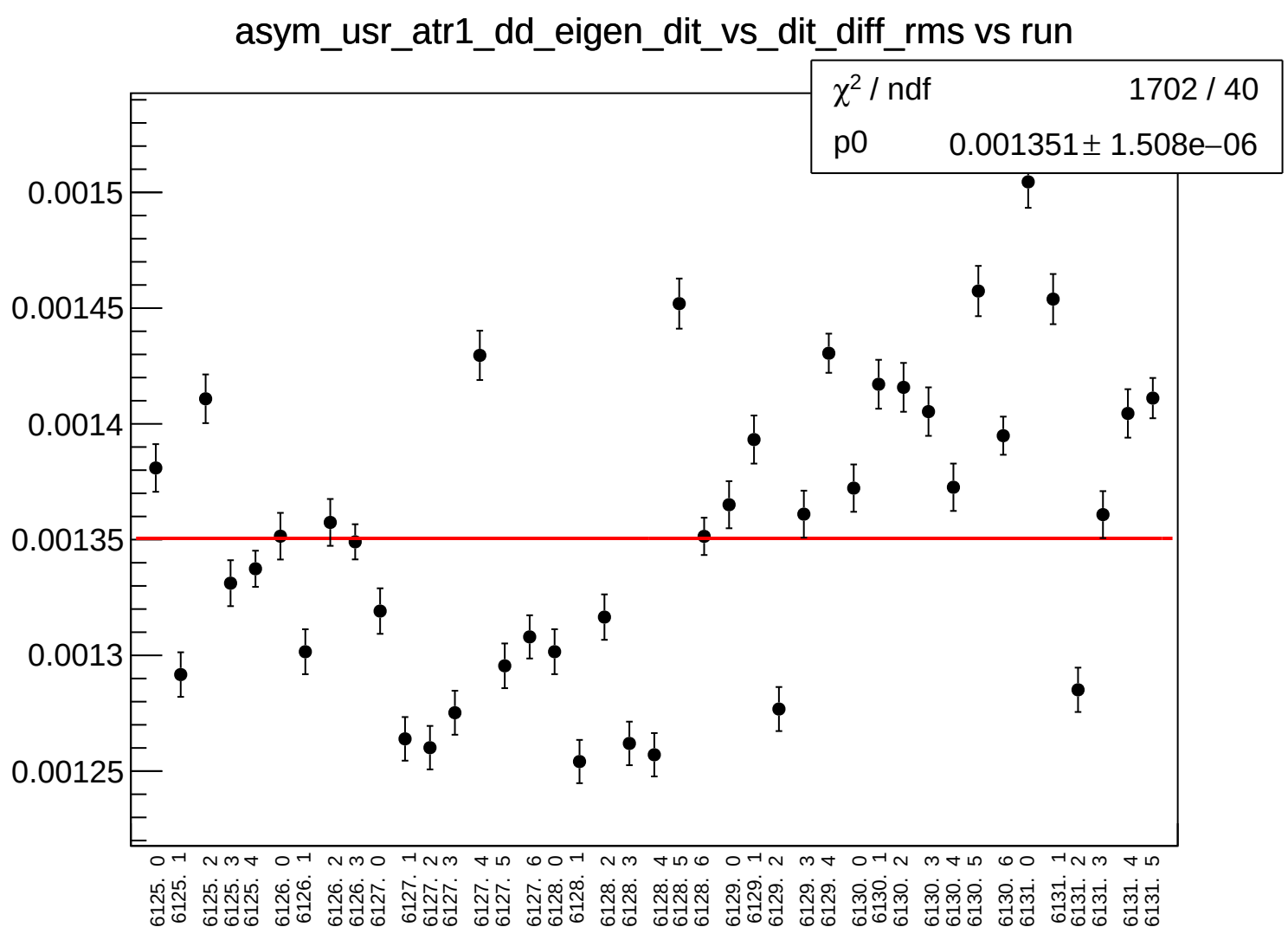

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.68 / 40
p0 −0.06945 ± 0.05765
pull
Entries 41
Mean 10.64
Std Dev 8.307

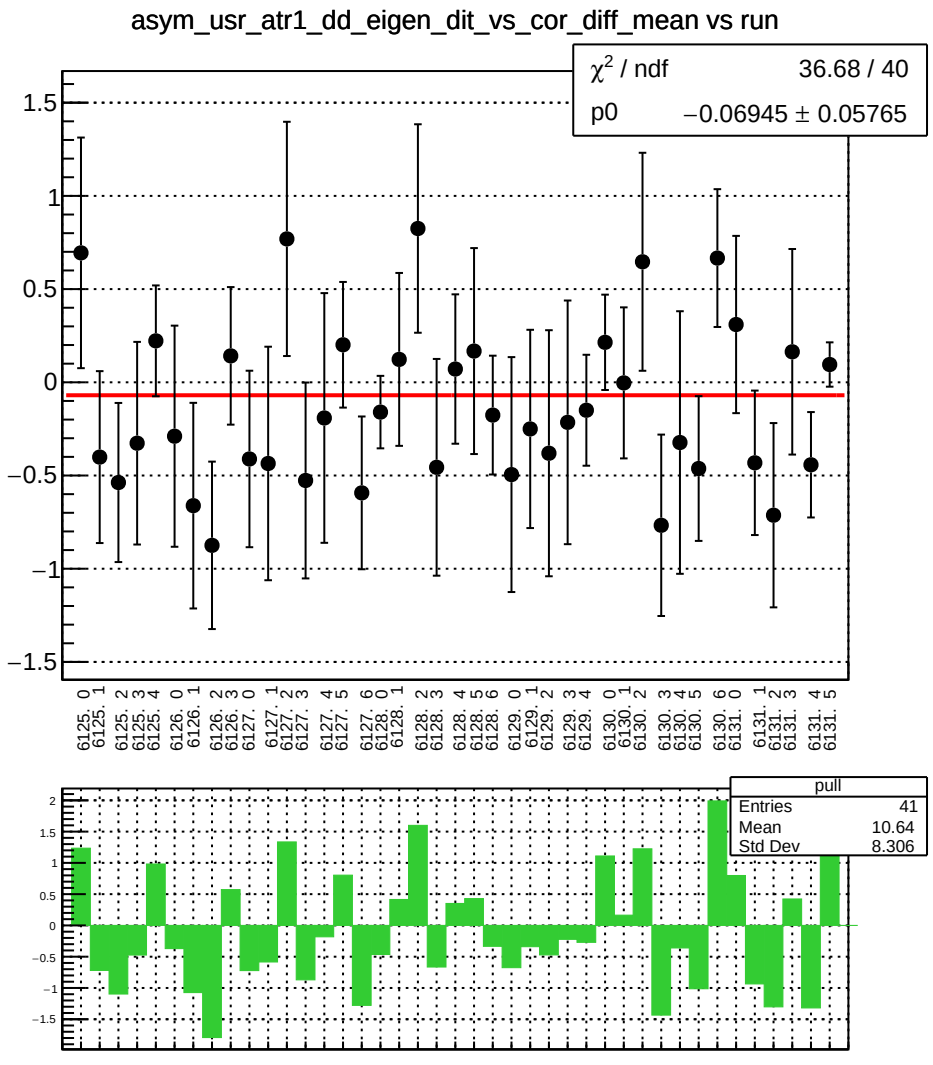

pull1D
Entries 41
Mean −0.1012
Std Dev 0.9405

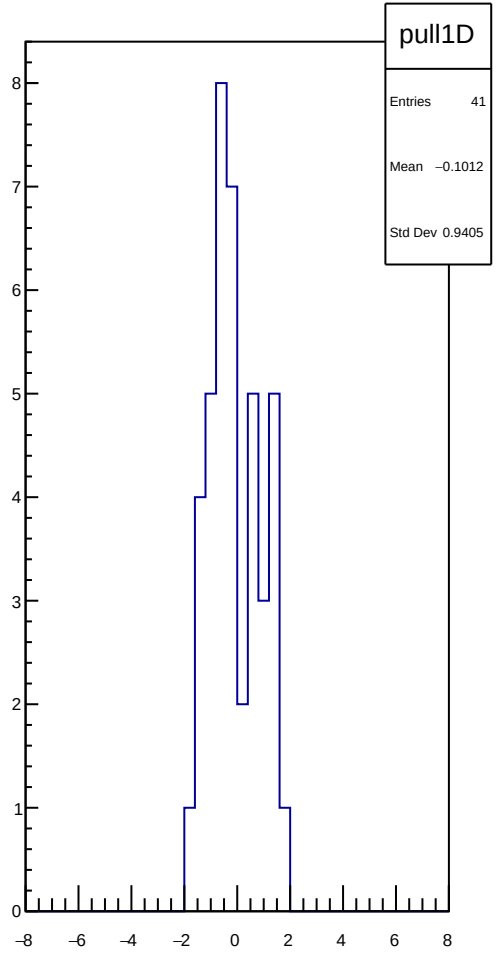

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.402e+05 / 40
p0 33.22 ± 0.04076
70
60
50
40
30
20
10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

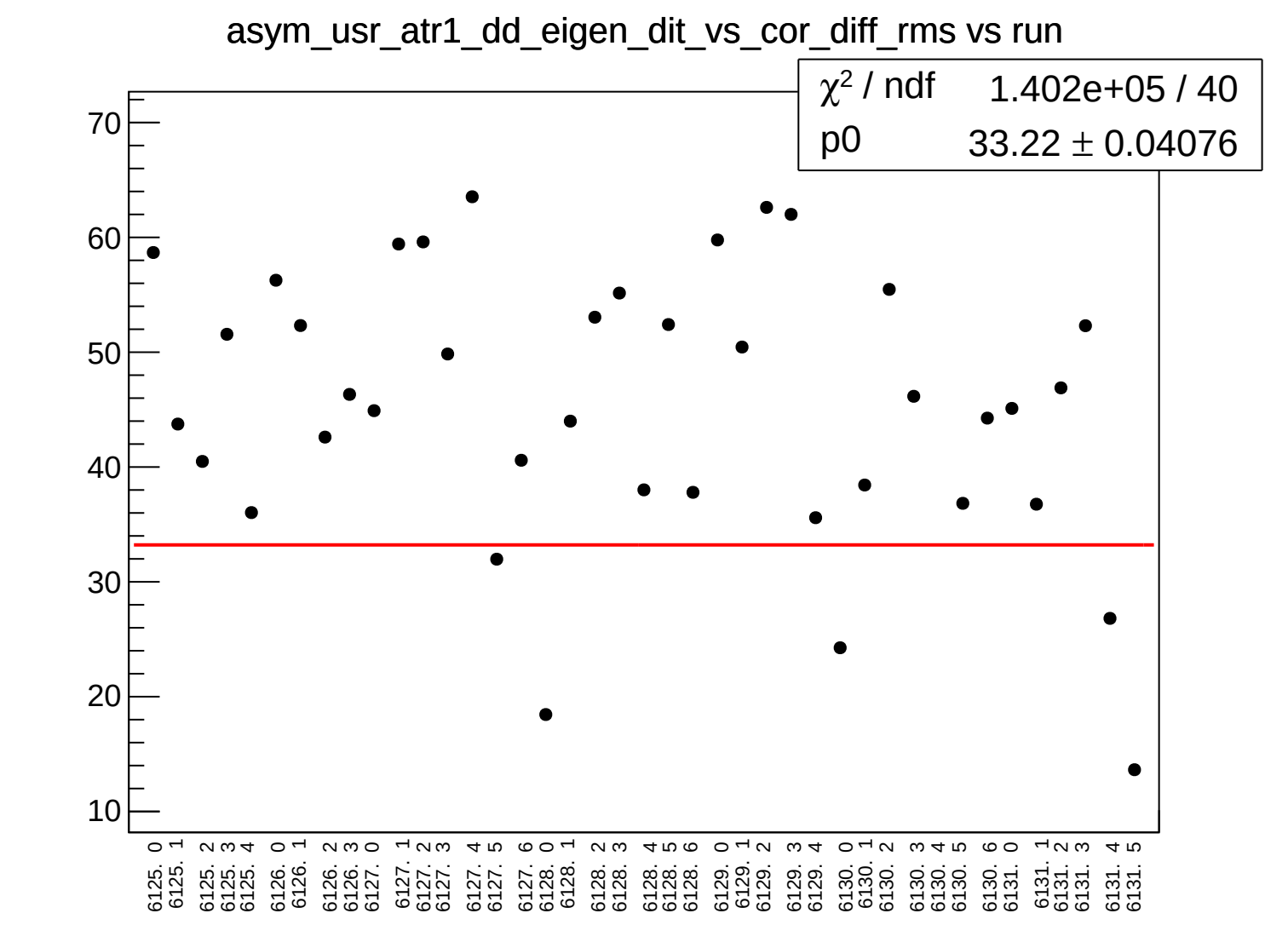

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 36.03 / 40
p0 −1.852e−06 ± 2.132e−06
0.04
0.02
0
−0.02
−0.04
−0.06
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −267.3
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean −0.01118
Std Dev 0.9374
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

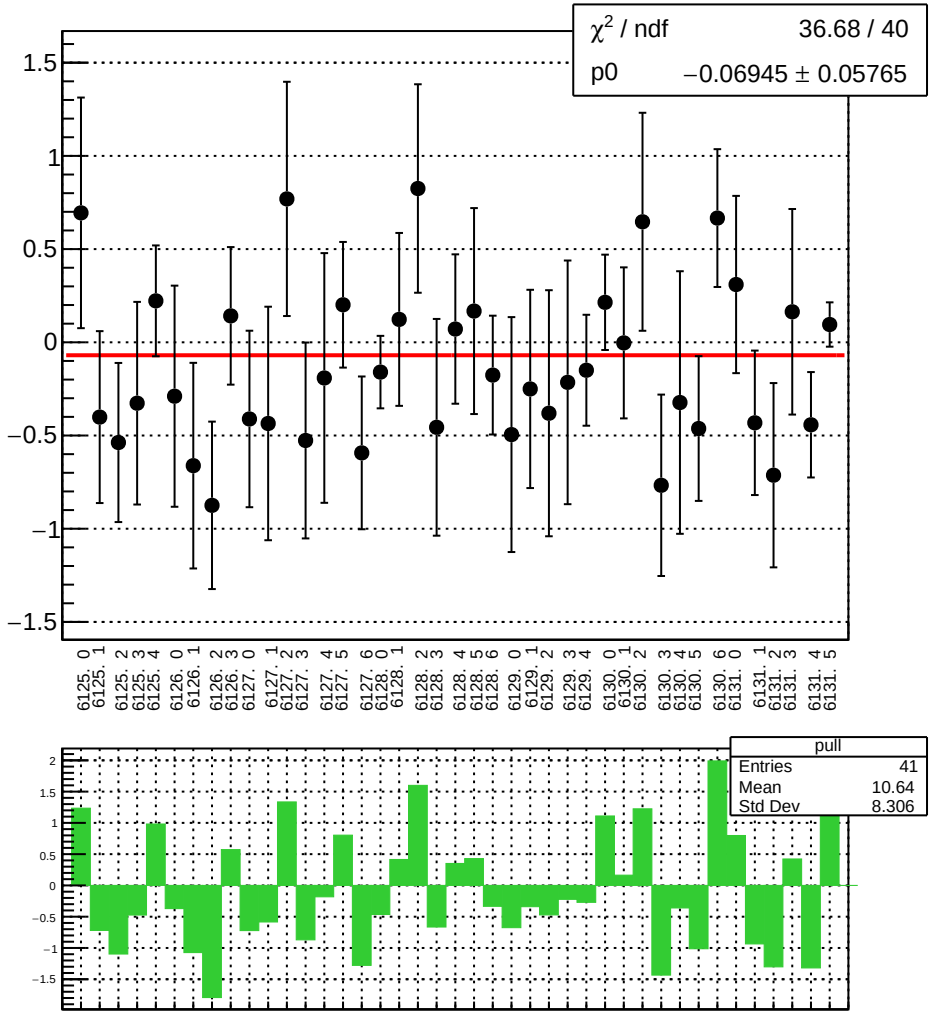

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1702 / 40
p0 0.001351 ± 1.508e−06
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

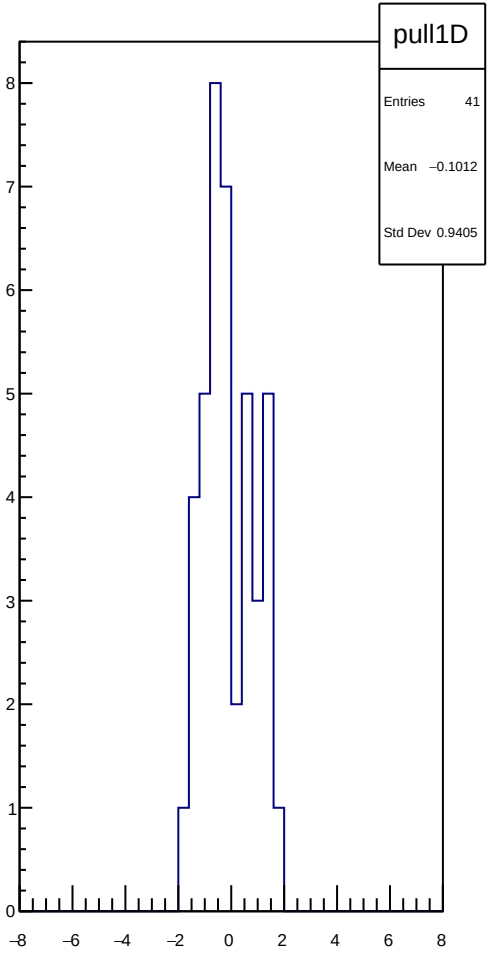

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.68 / 40
p0 −0.06945 ± 0.05765
pull
Entries 41
Mean 10.64
Std Dev 8.306

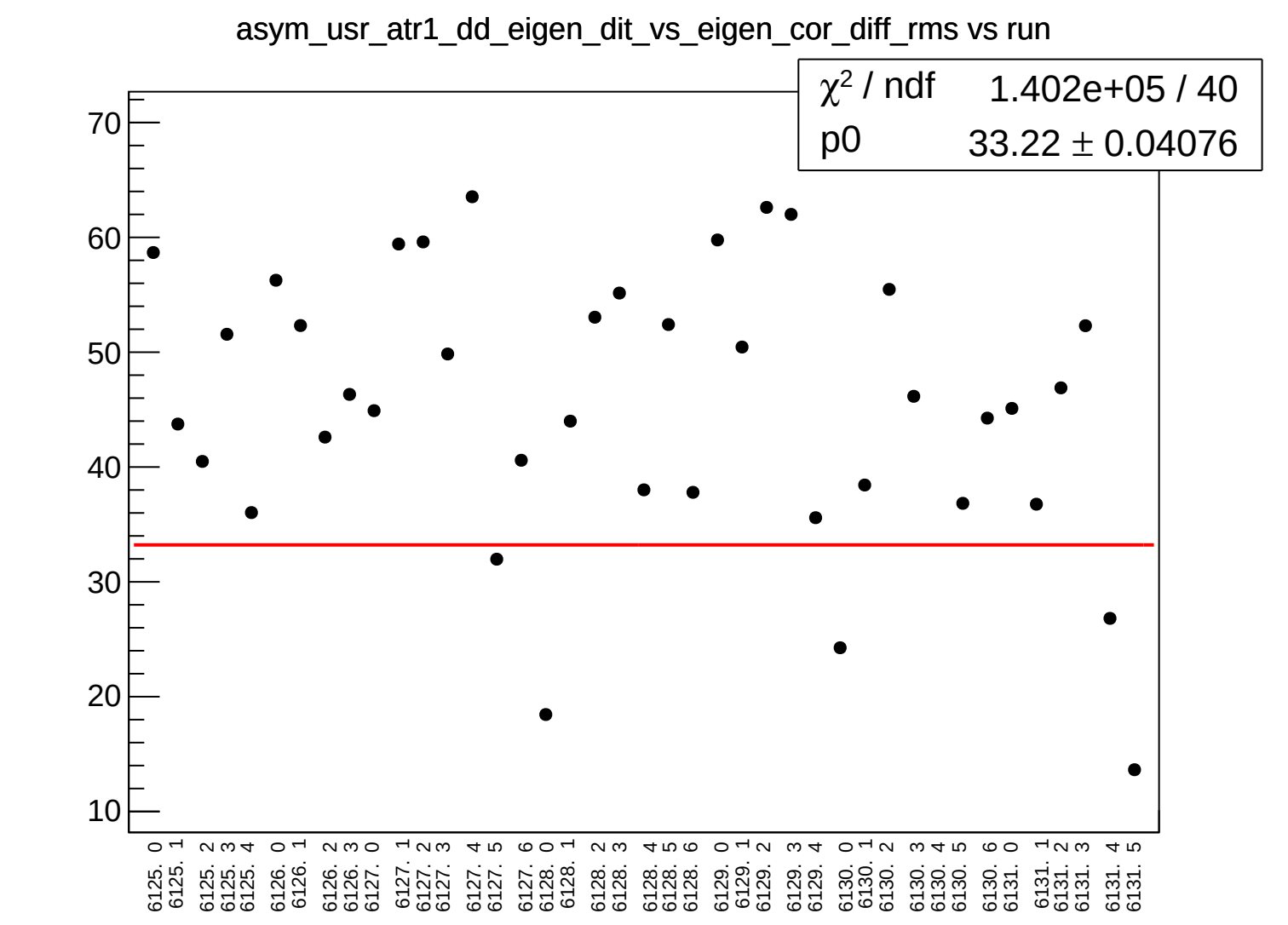

pull1D
Entries 41
Mean −0.1012
Std Dev 0.9405

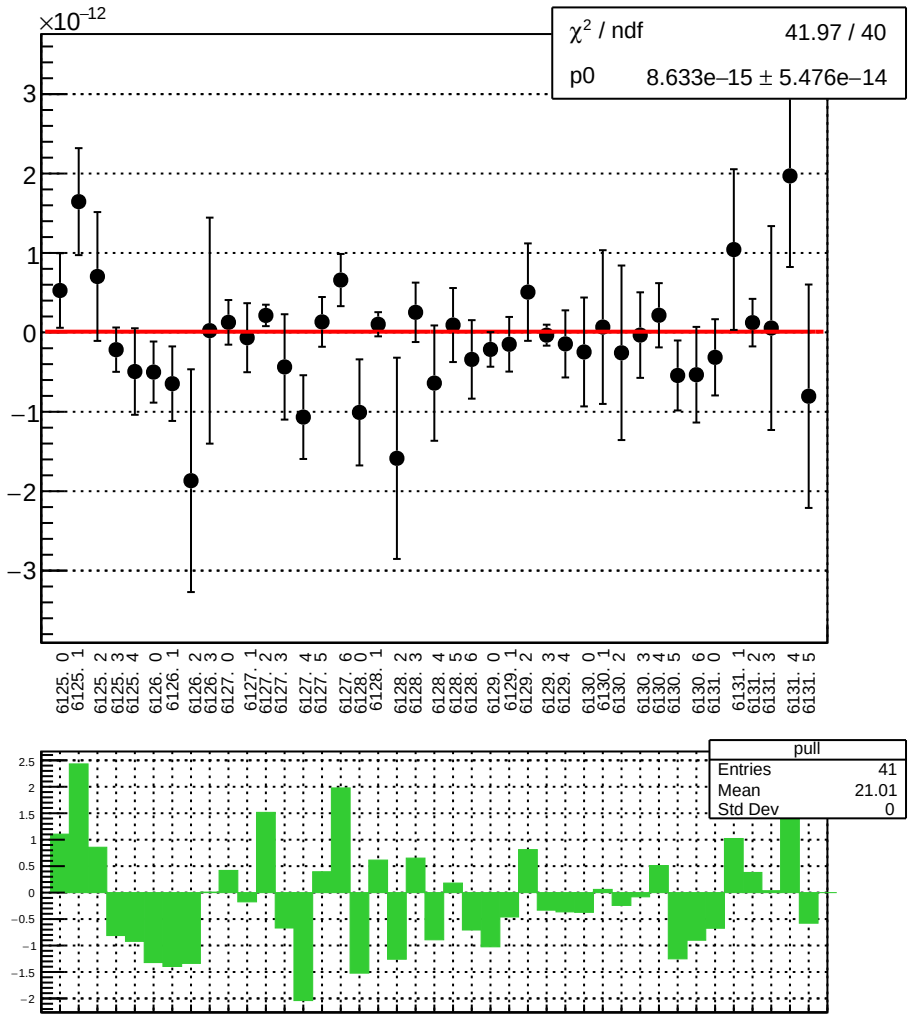

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.402e+05 / 40
p0 33.22 ± 0.04076
70
60
50
40
30
20
10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

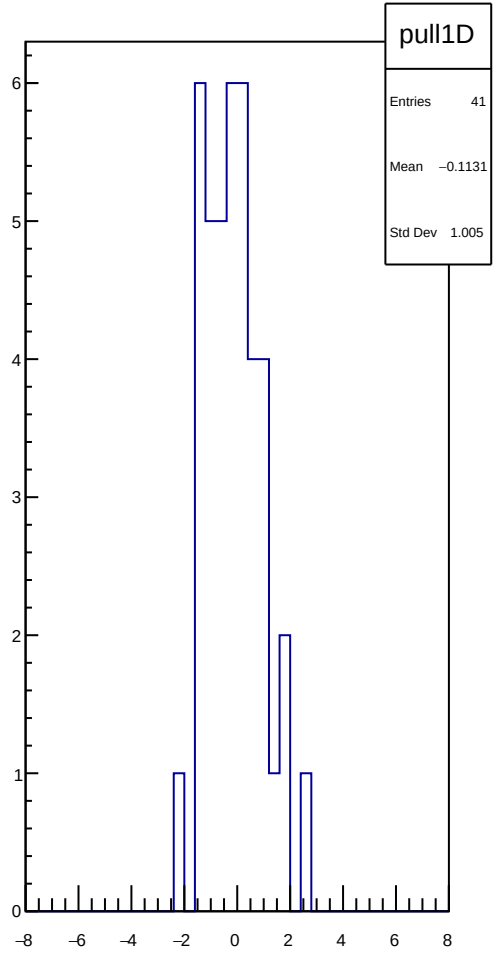
asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

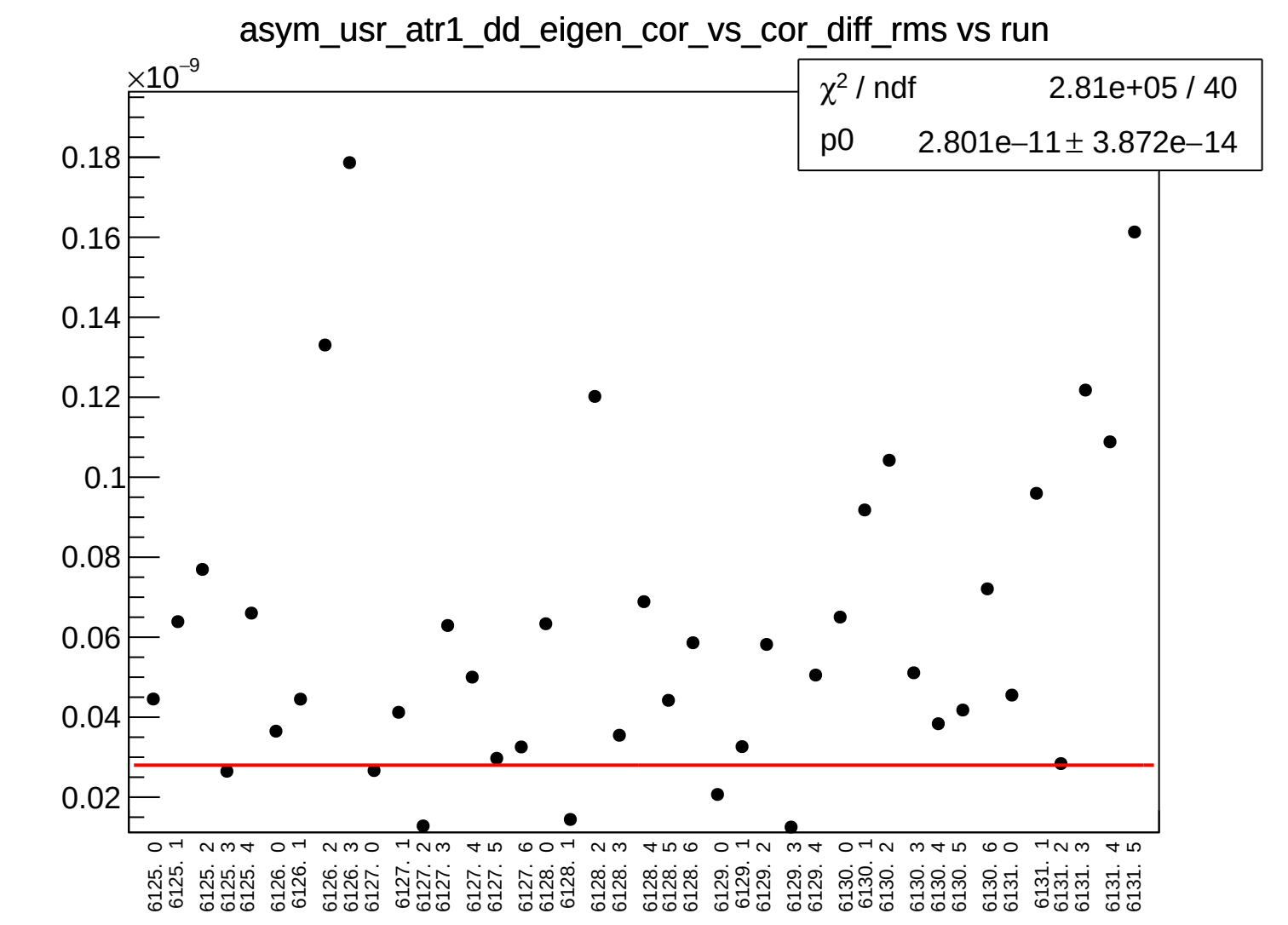


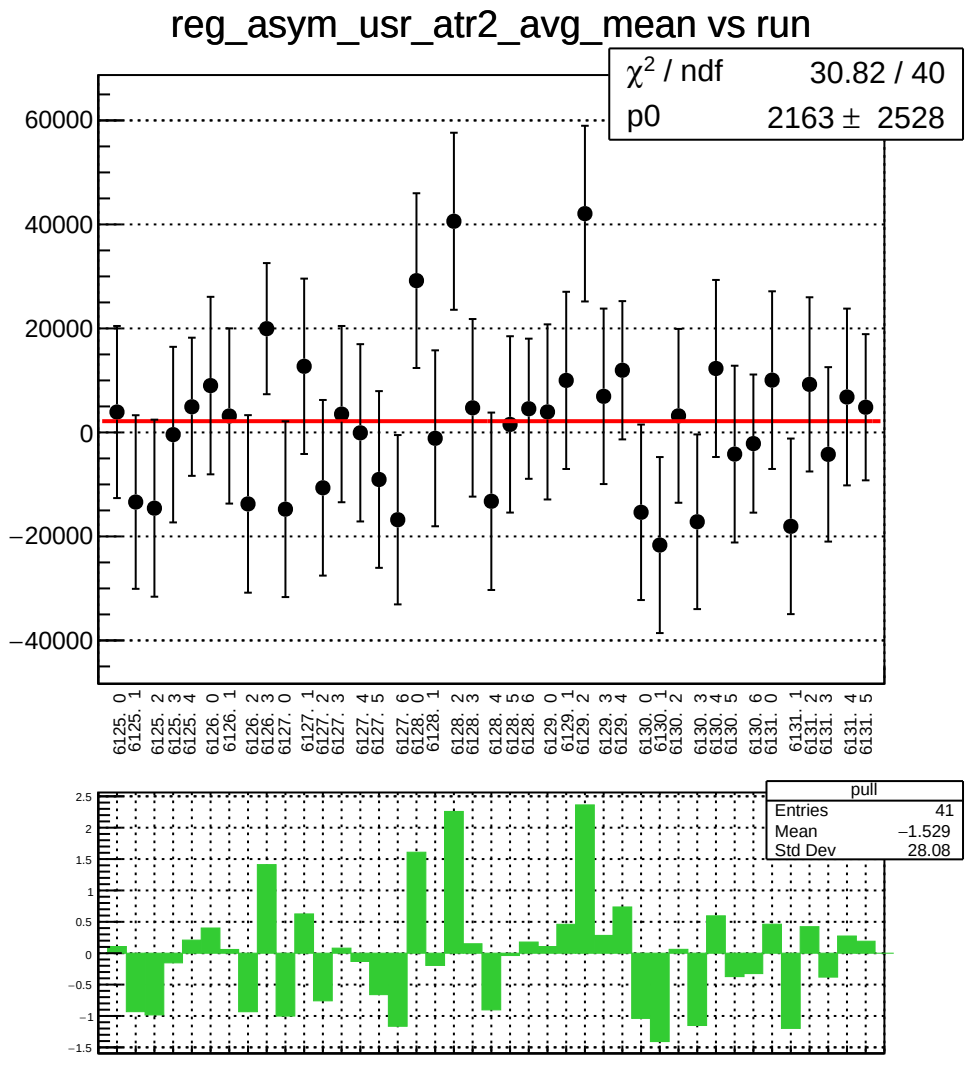


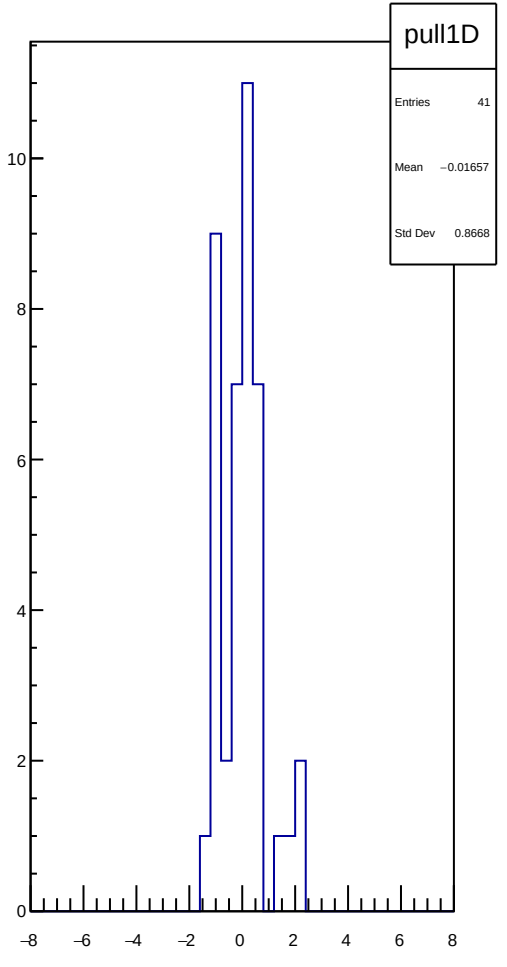

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.402e+05 / 40
p0 33.22 ± 0.04076
70
60
50
40
30
20
10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

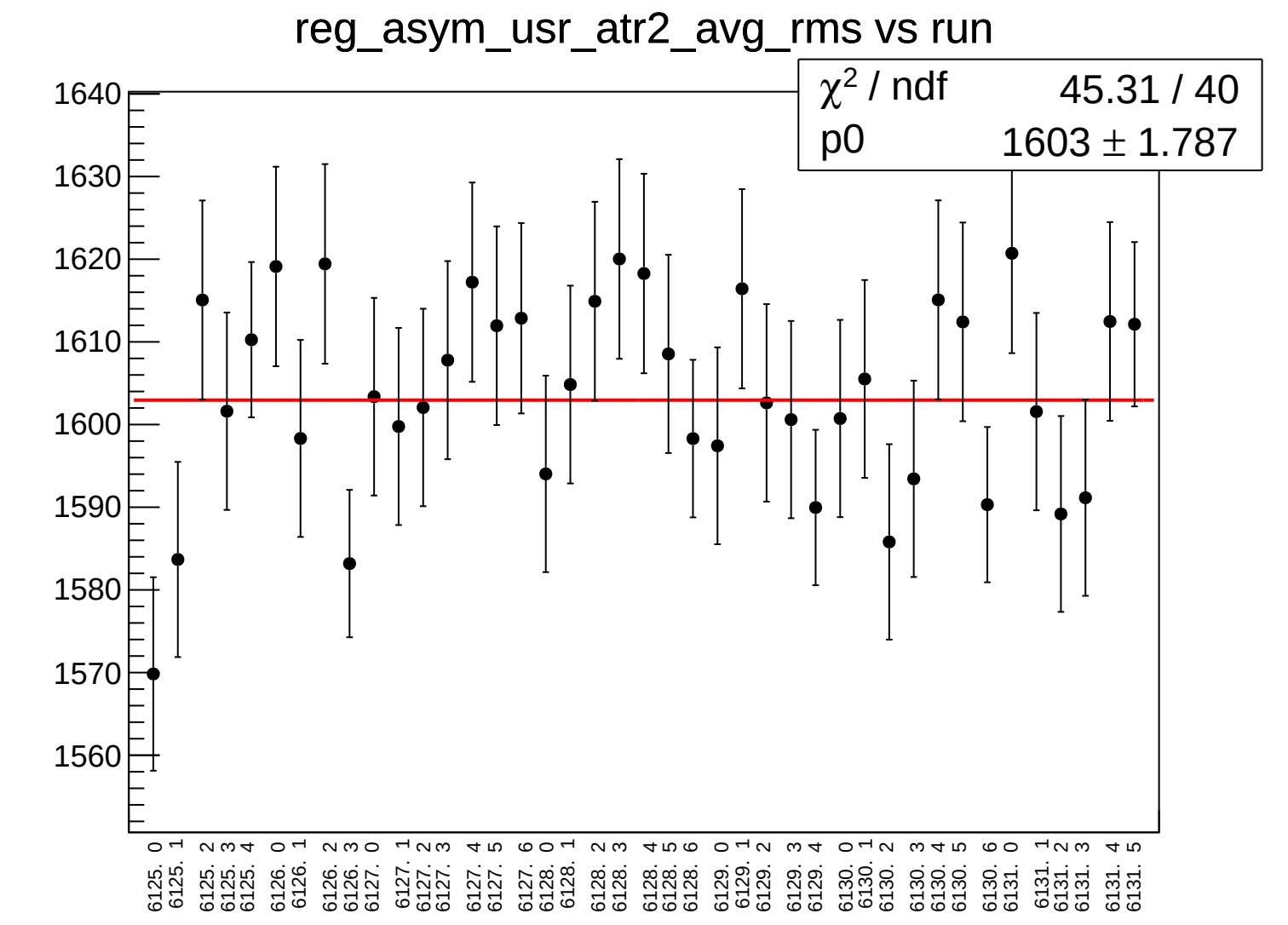

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 41.97 / 40
p0 8.633e−15 ± 5.476e−14
pull
Entries 41
Mean 21.01
Std Dev 0

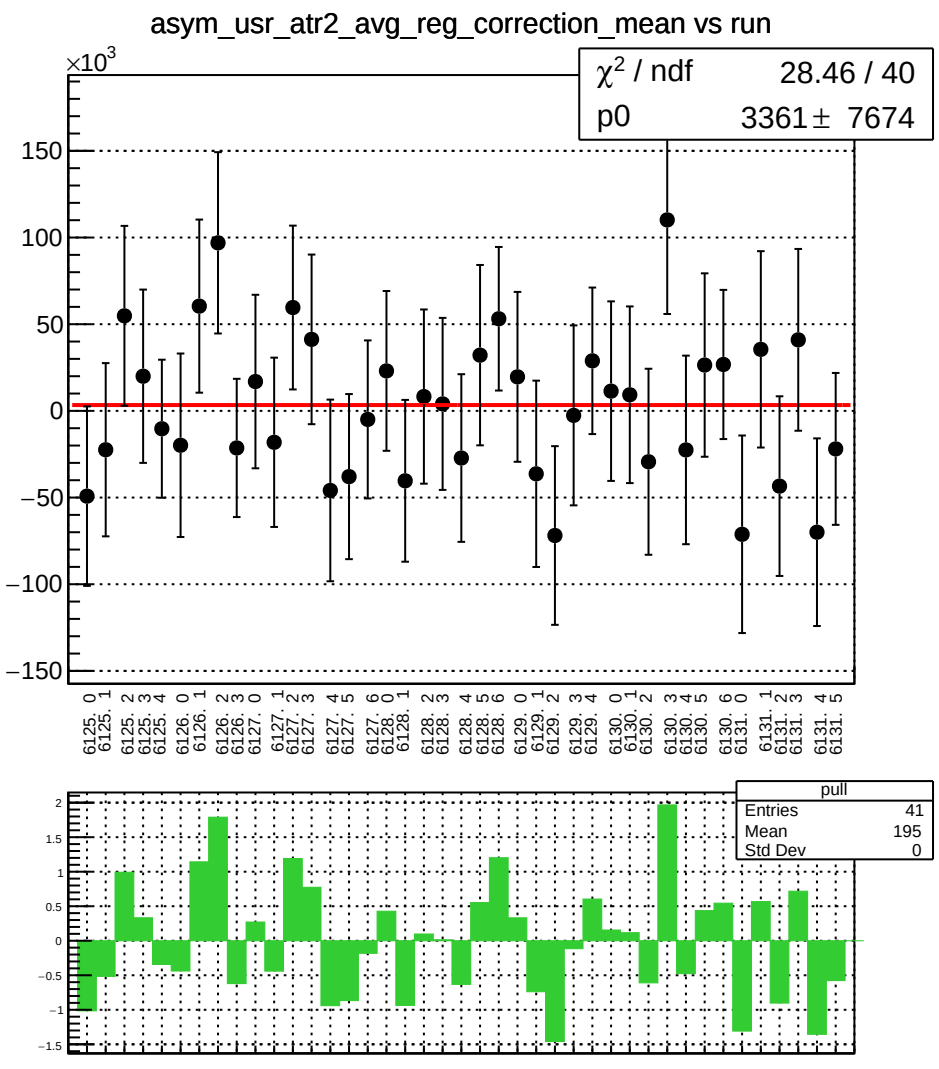

pull1D
Entries 41
Mean −0.1131
Std Dev 1.005

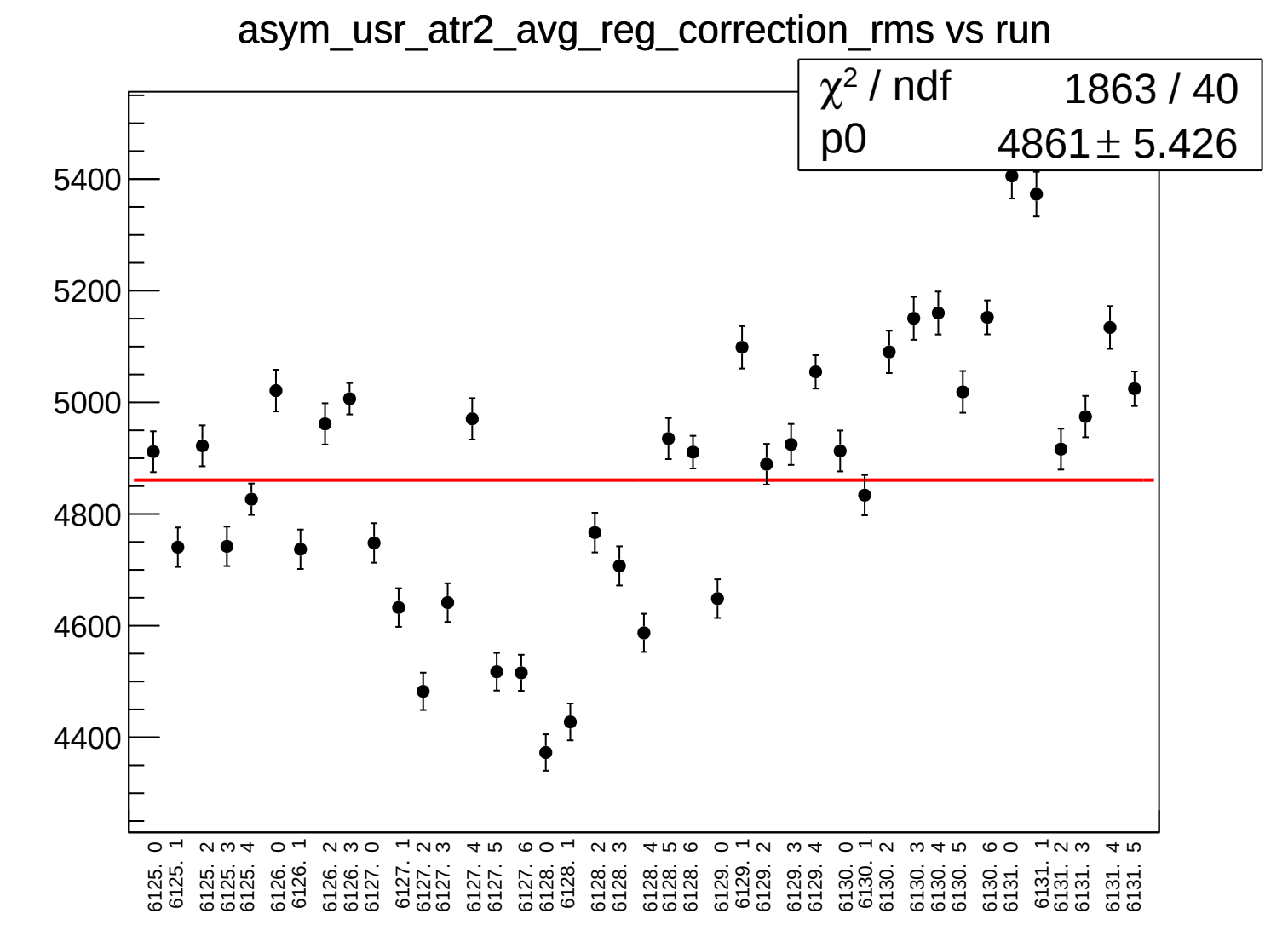

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.81e+05 / 40
p0 2.801e−11 ± 3.872e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

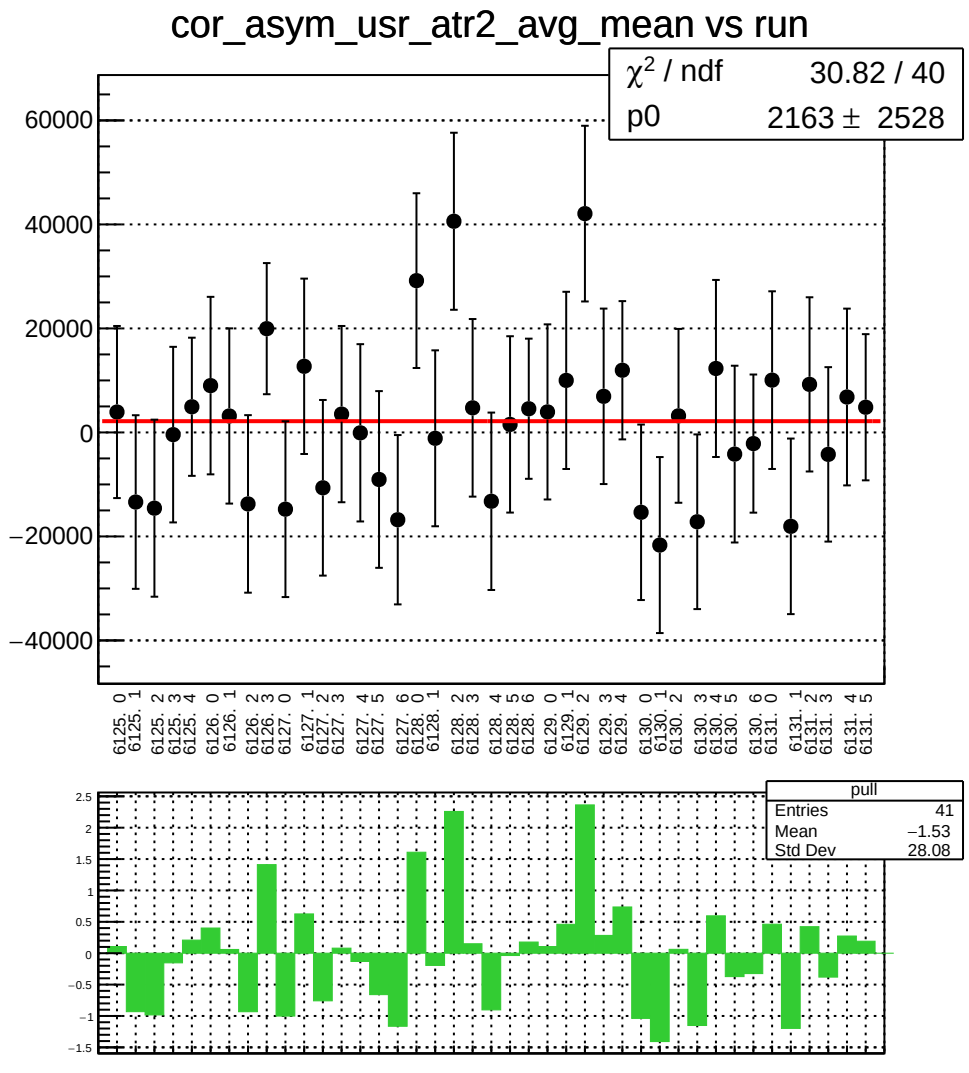

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 30.82 / 40
p0 2163 ± 2528
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1.529
Std Dev 28.08
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

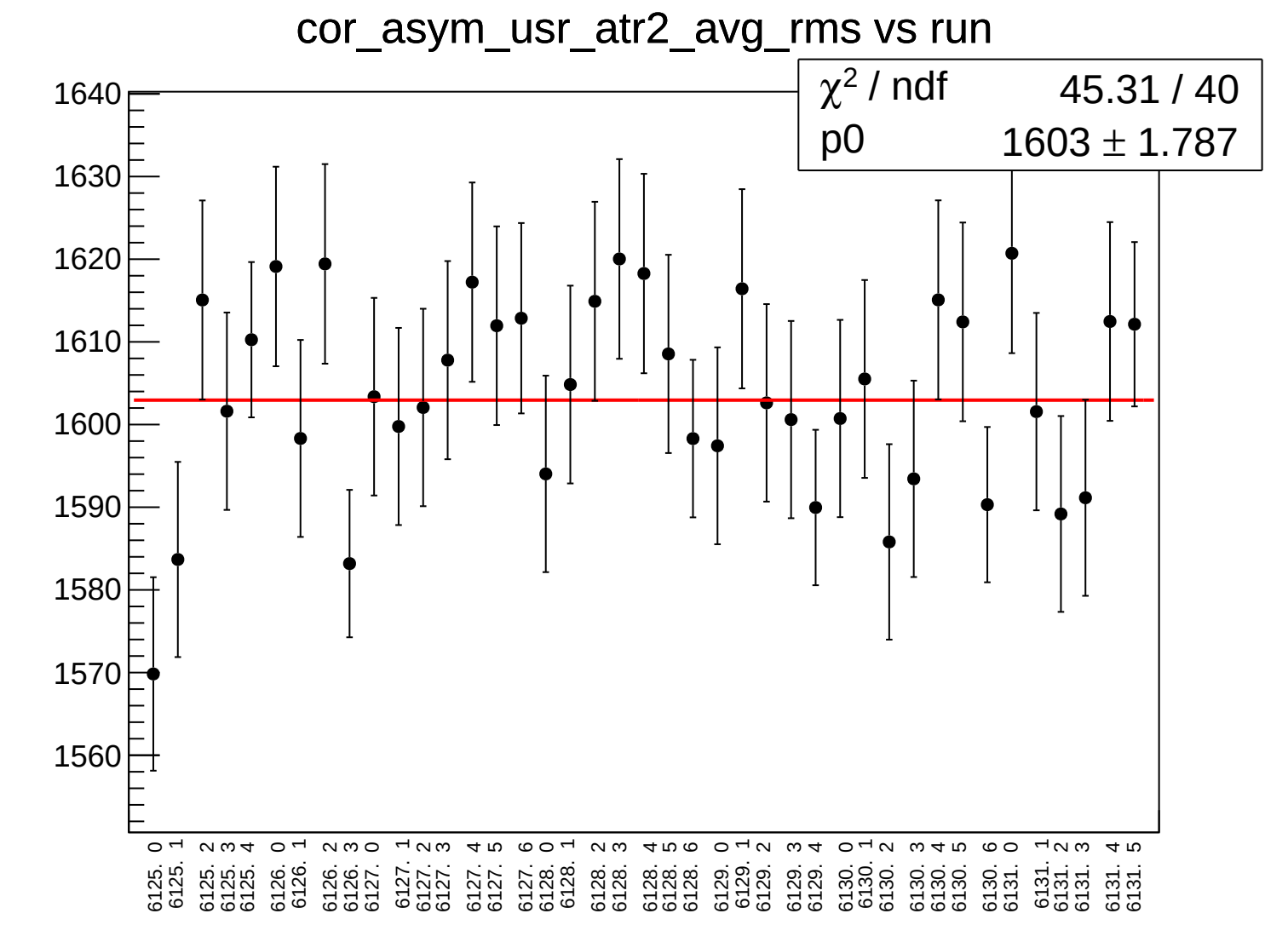

pull1D
Entries 41
Mean −0.01657
Std Dev 0.8668
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 45.31 / 40
p0 1603 ± 1.787
1640
1630
1620
1610
1600
1590
1580
1570
1560
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 28.46 / 40
p0 3361 ± 7674
150
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 195
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.005969
Std Dev 0.8331
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 1863 / 40
p0 4861 ± 5.426
5400
5200
5000
4800
4600
4400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 30.82 / 40
p0 2163 ± 2528
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1.53
Std Dev 28.08
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.01657
Std Dev 0.8668
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 45.31 / 40
p0 1603 ± 1.787
1640
1630
1620
1610
1600
1590
1580
1570
1560
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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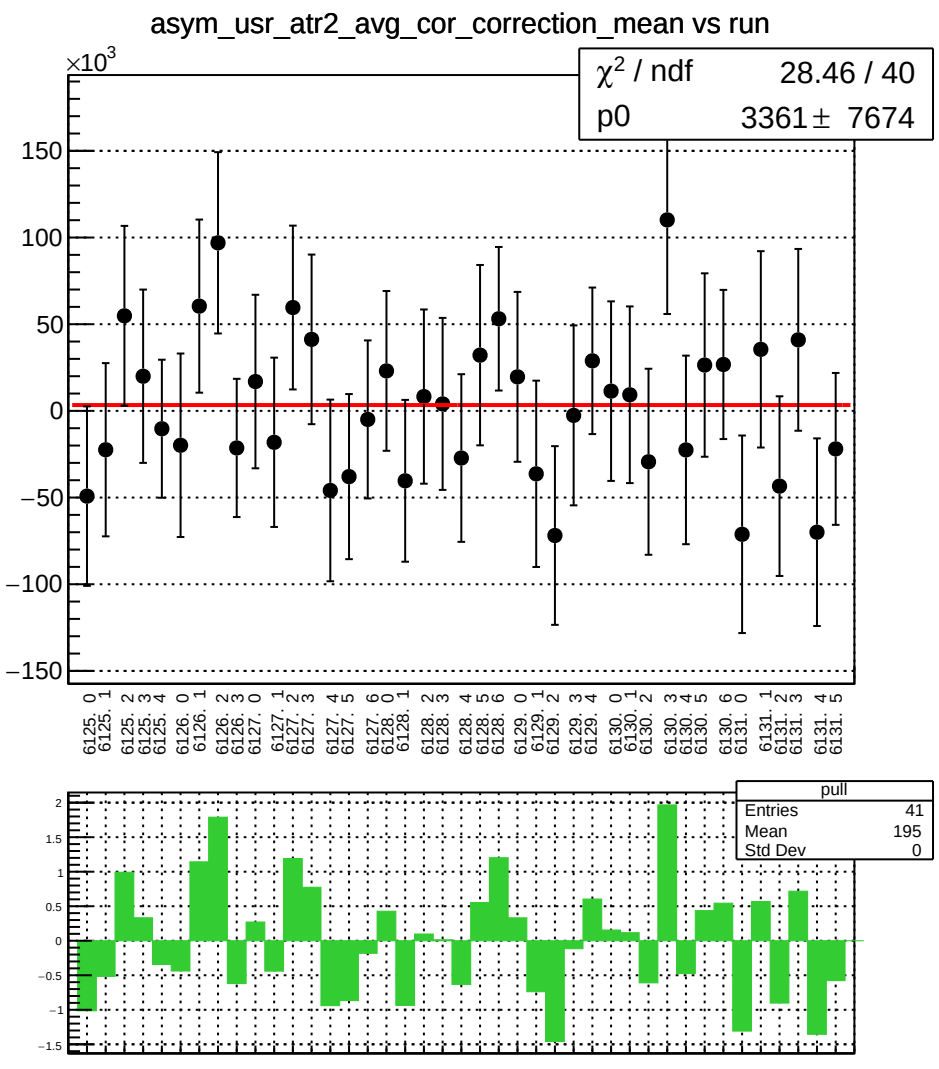
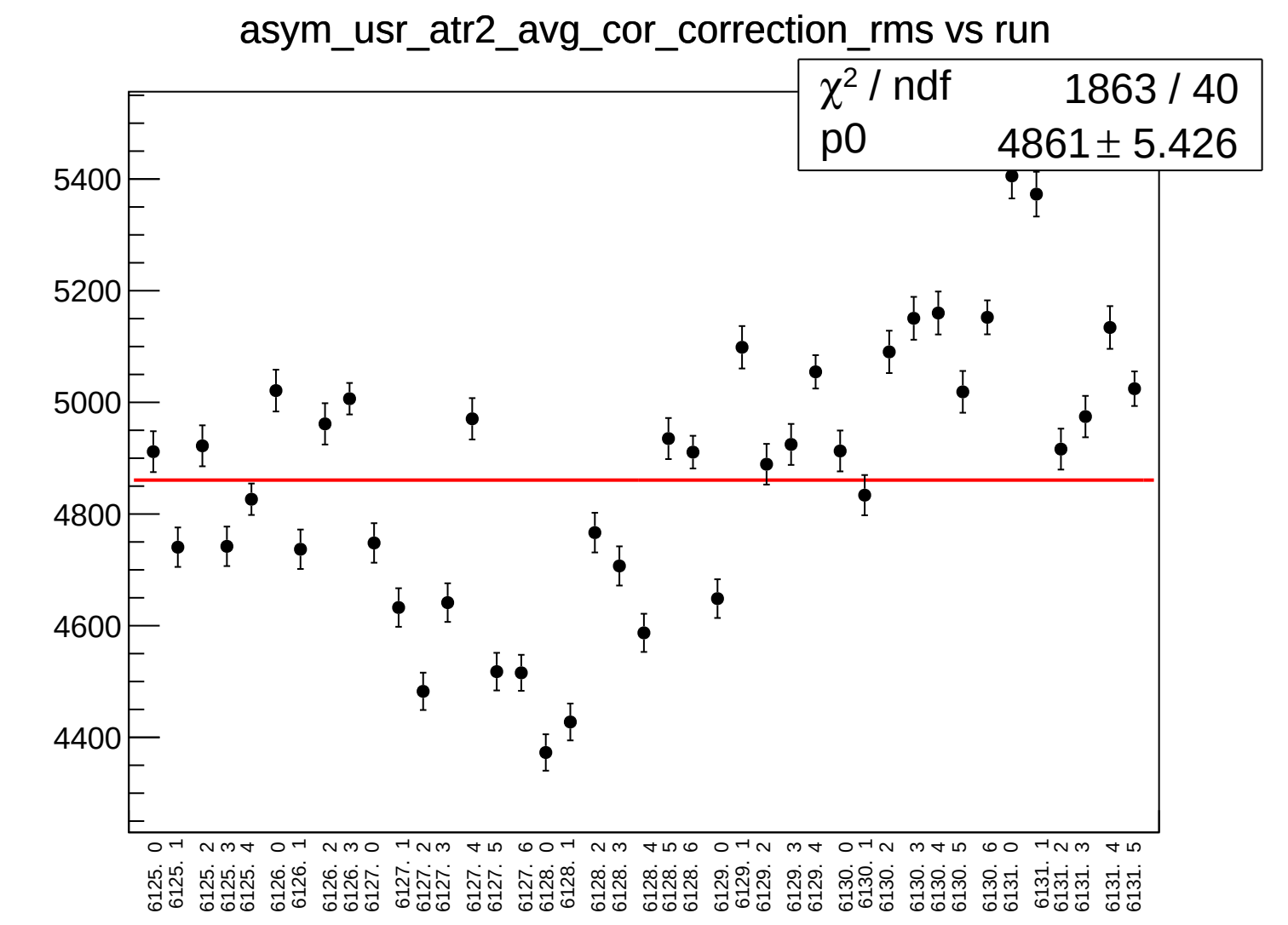
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 28.46 / 40
p0 3361 ± 7674
150
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 195
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.00597
Std Dev 0.8331
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 1863 / 40
p0 4861 ± 5.426
5400
5200
5000
4800
4600
4400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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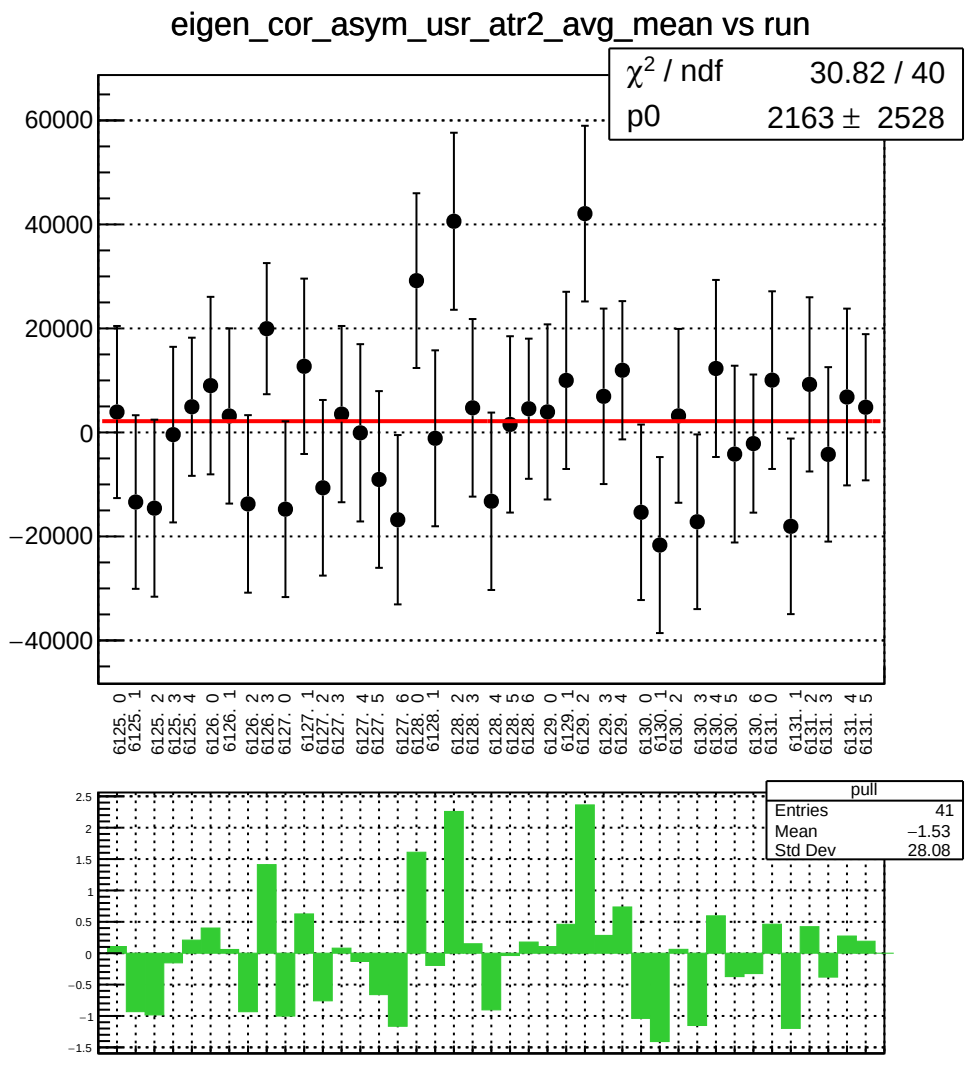
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 30.82 / 40
p0 2163 ± 2528
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
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6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
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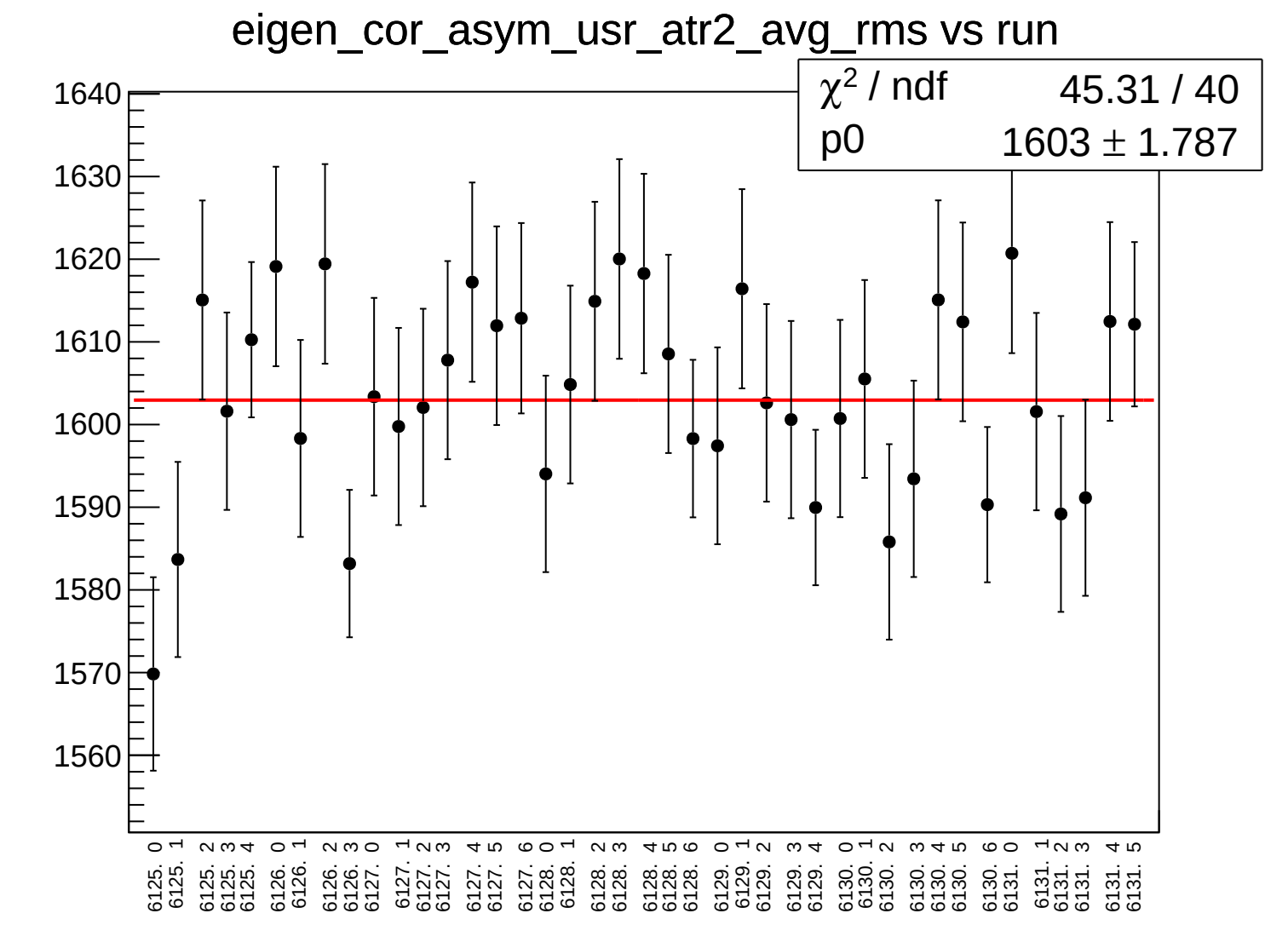
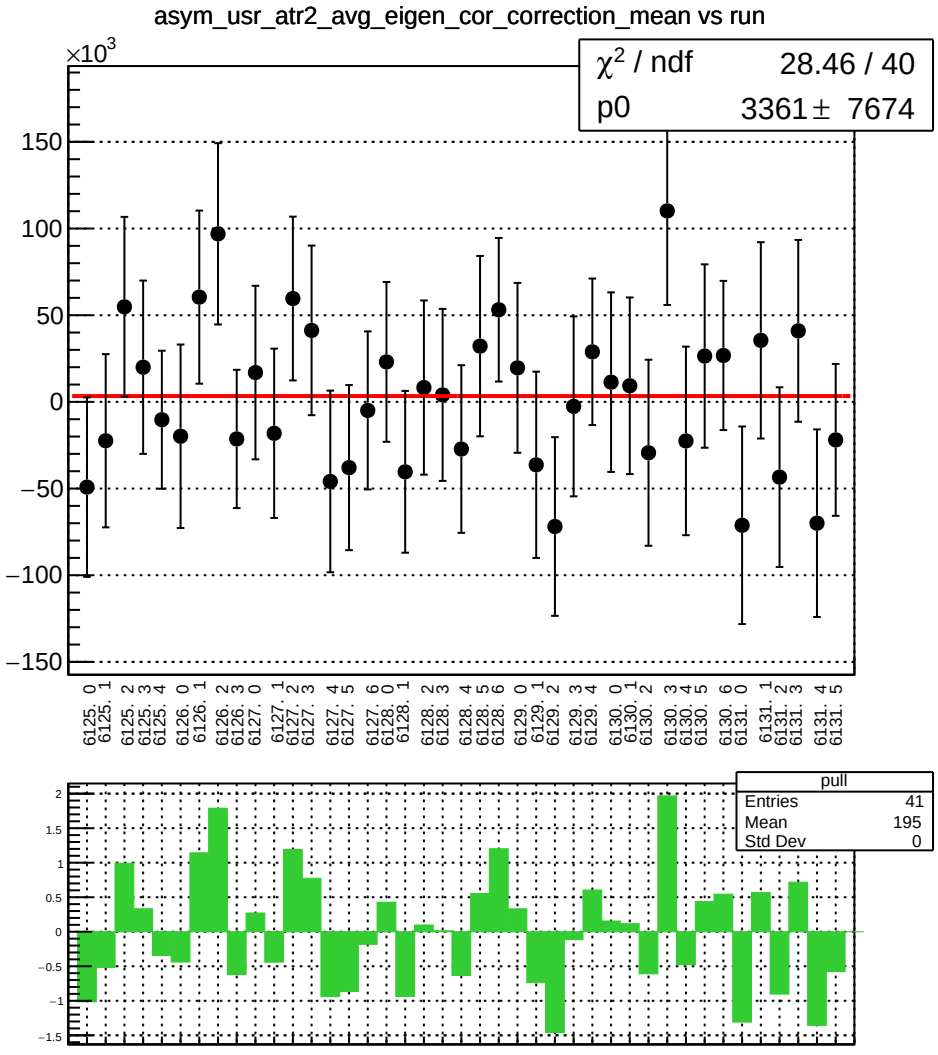
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1.53
Std Dev 28.08
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.01657
Std Dev 0.8668
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 45.31 / 40
p0 1603 ± 1.787
1640
1630
1620
1610
1600
1590
1580
1570
1560
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 28.46 / 40
p0 3361 ± 7674
150
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
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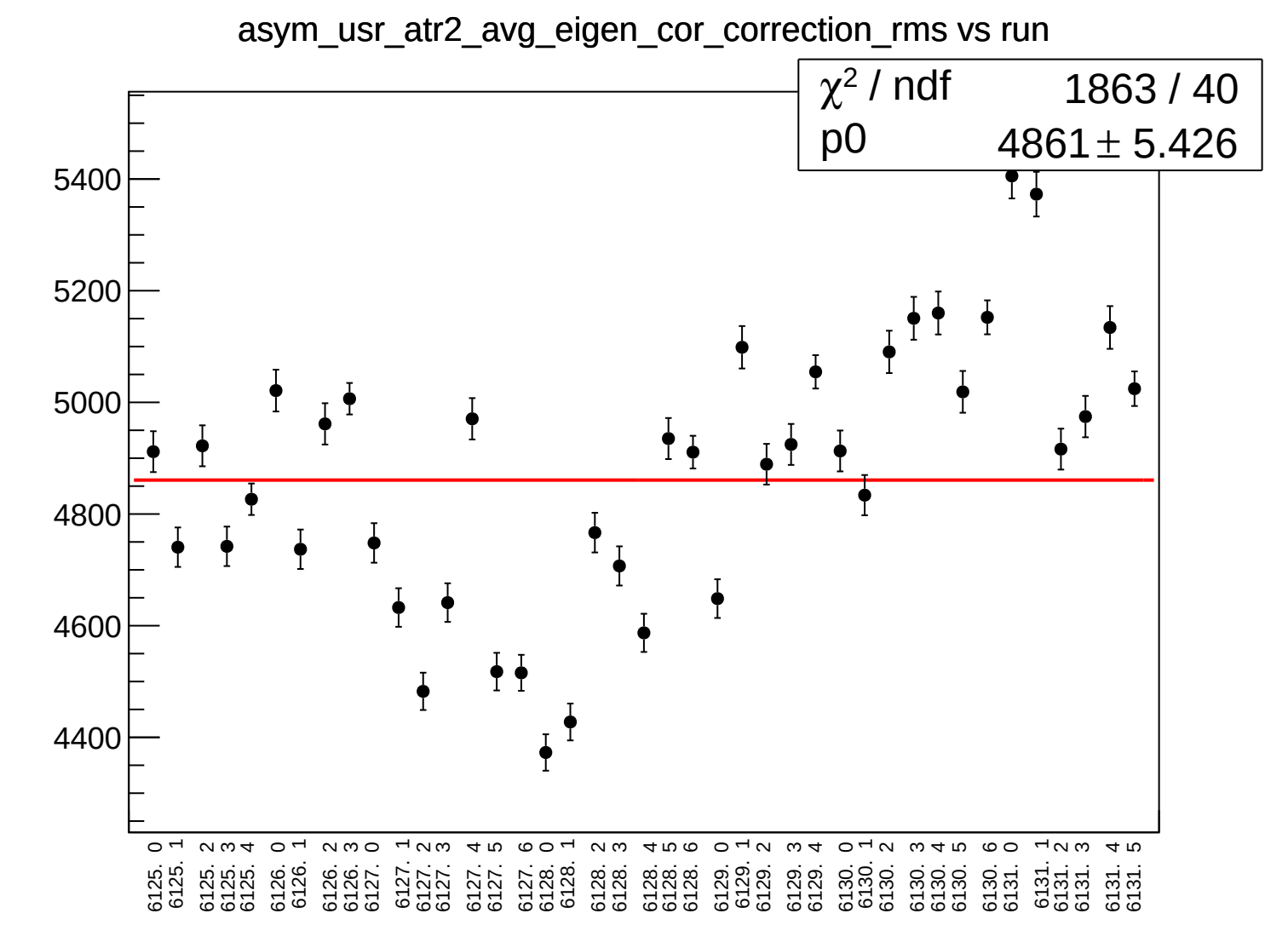
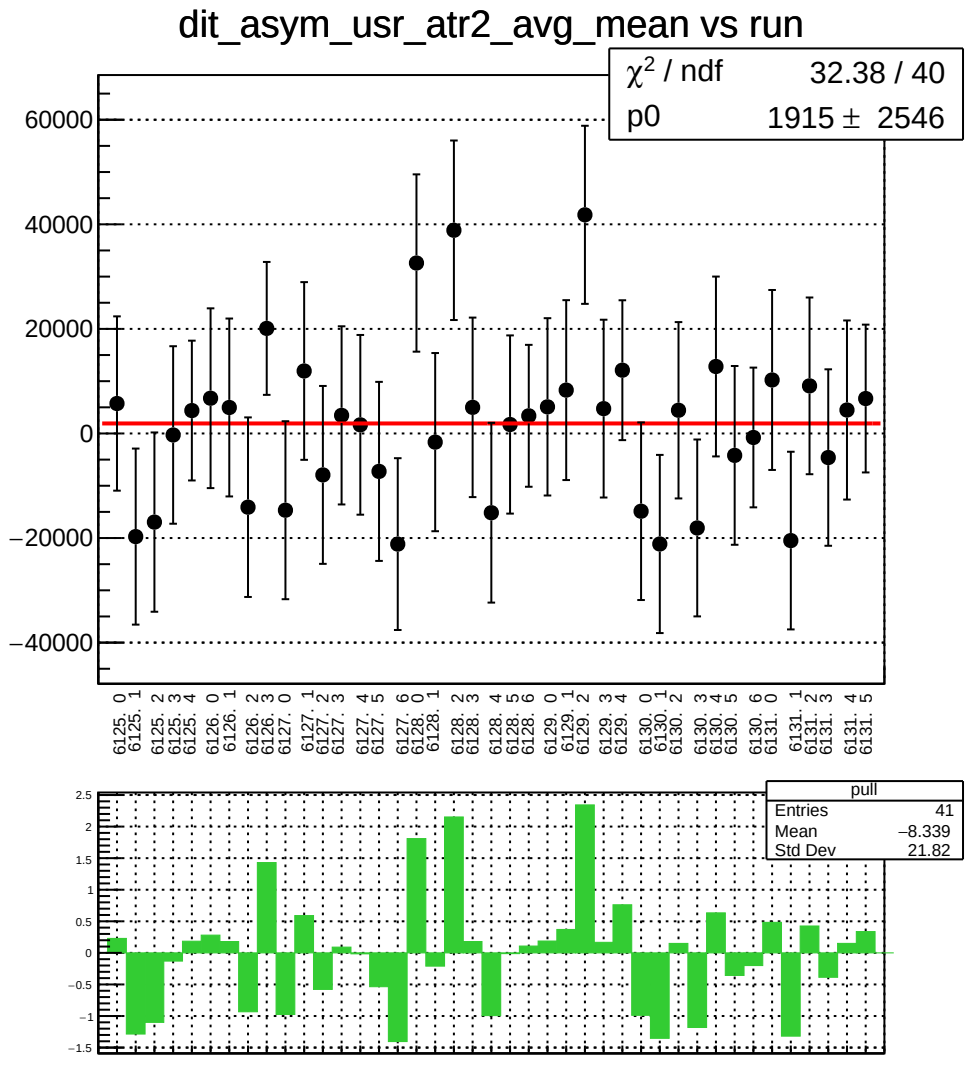
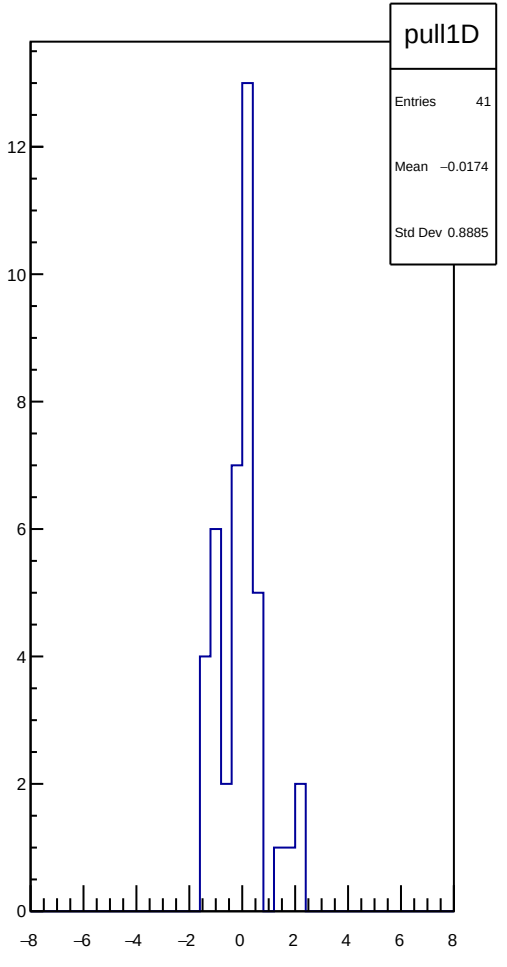
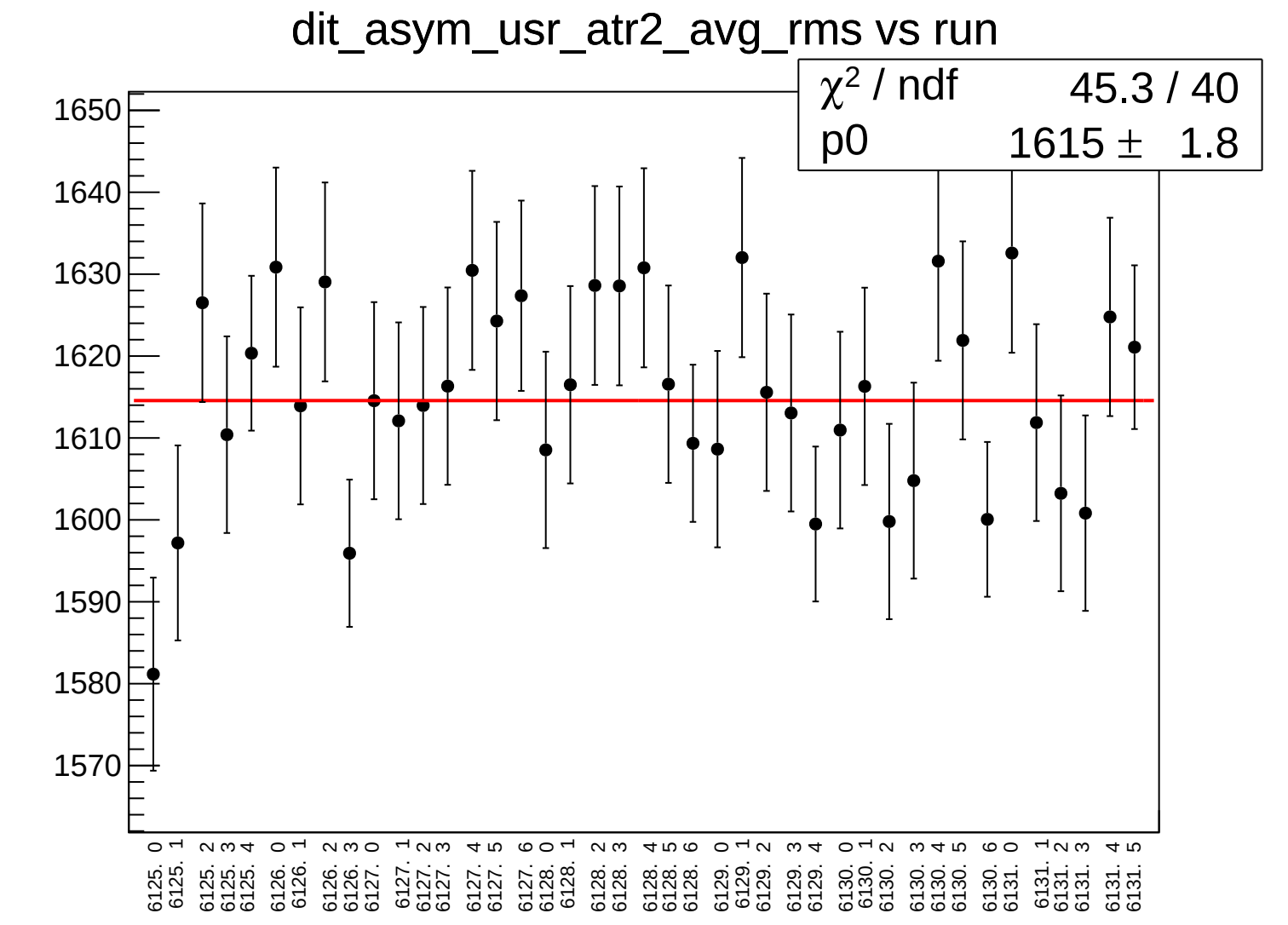
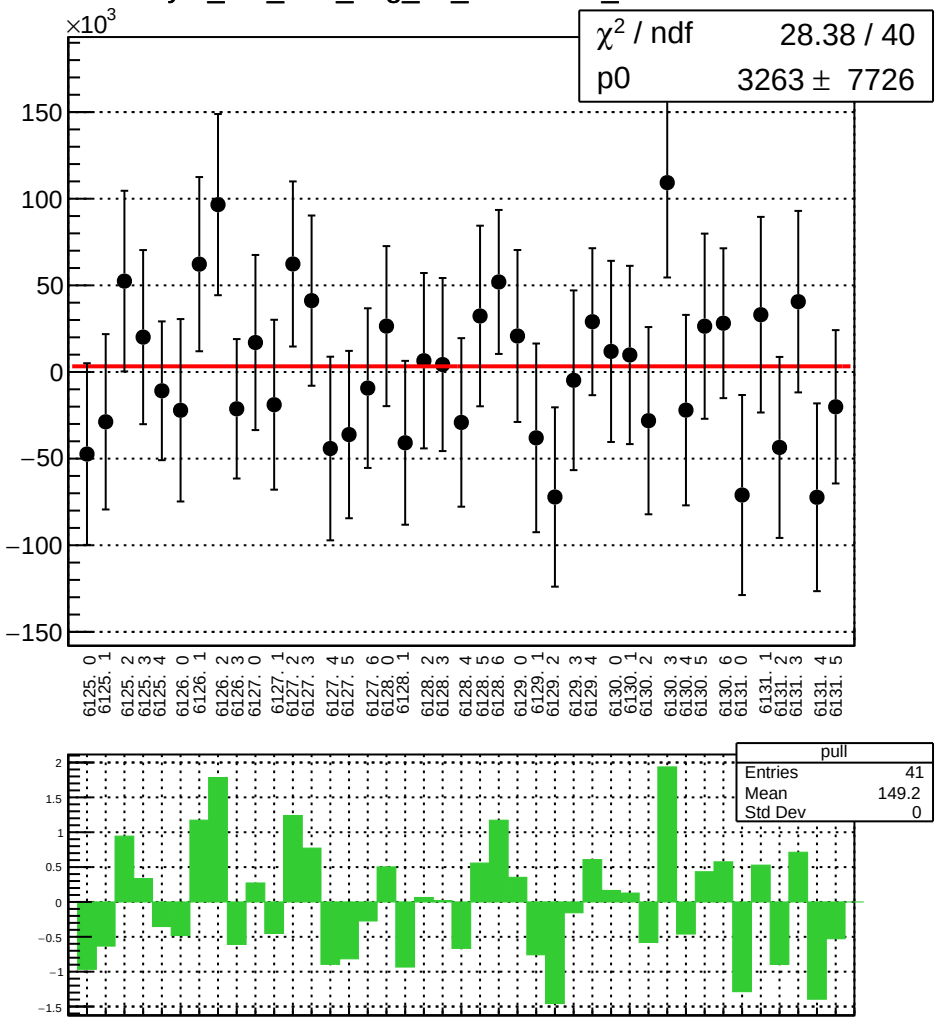
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 195
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.00597
Std Dev 0.8331
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

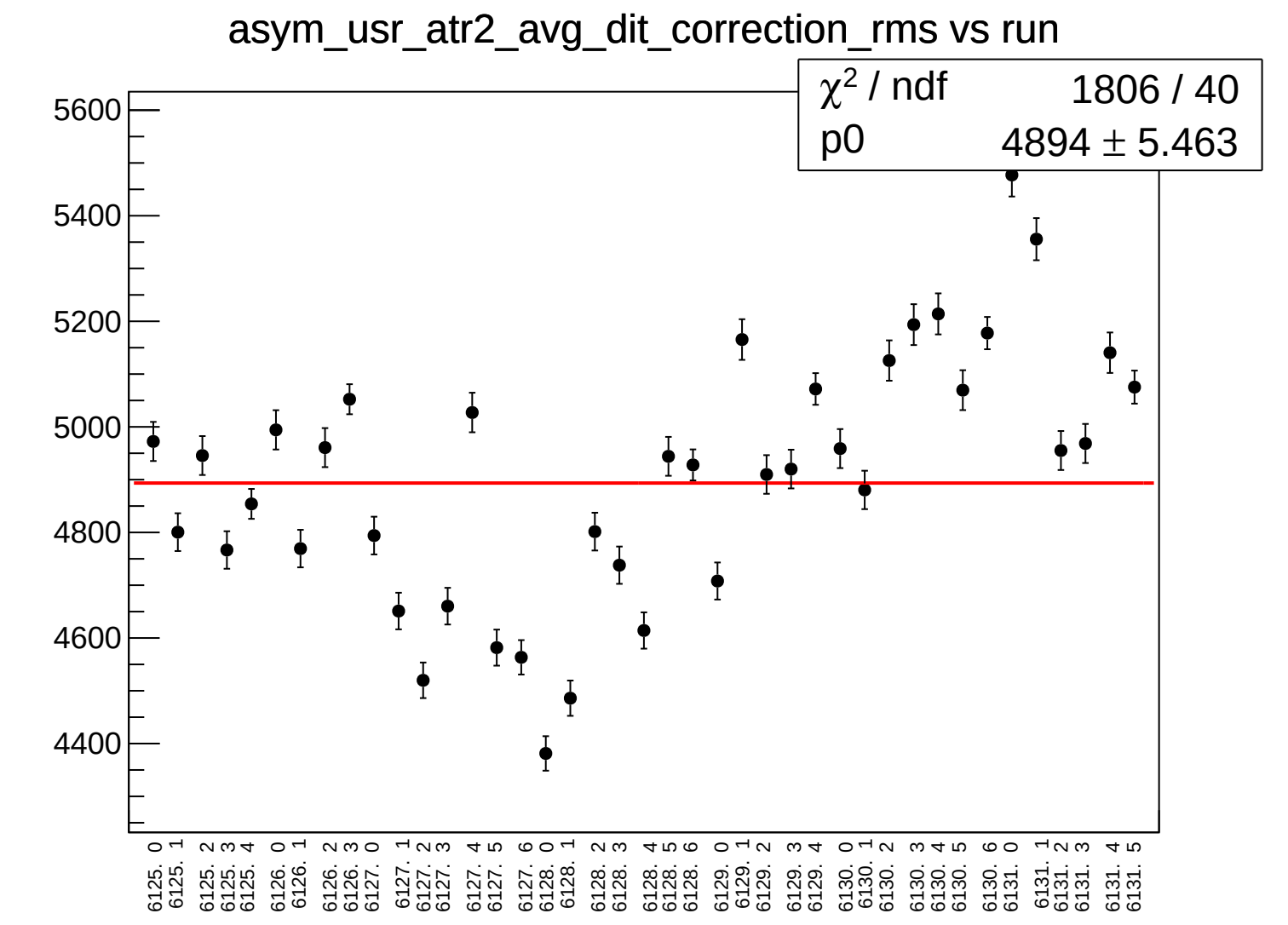

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1863 / 40
p0 4861 ± 5.426
5400
5200
5000
4800
4600
4400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

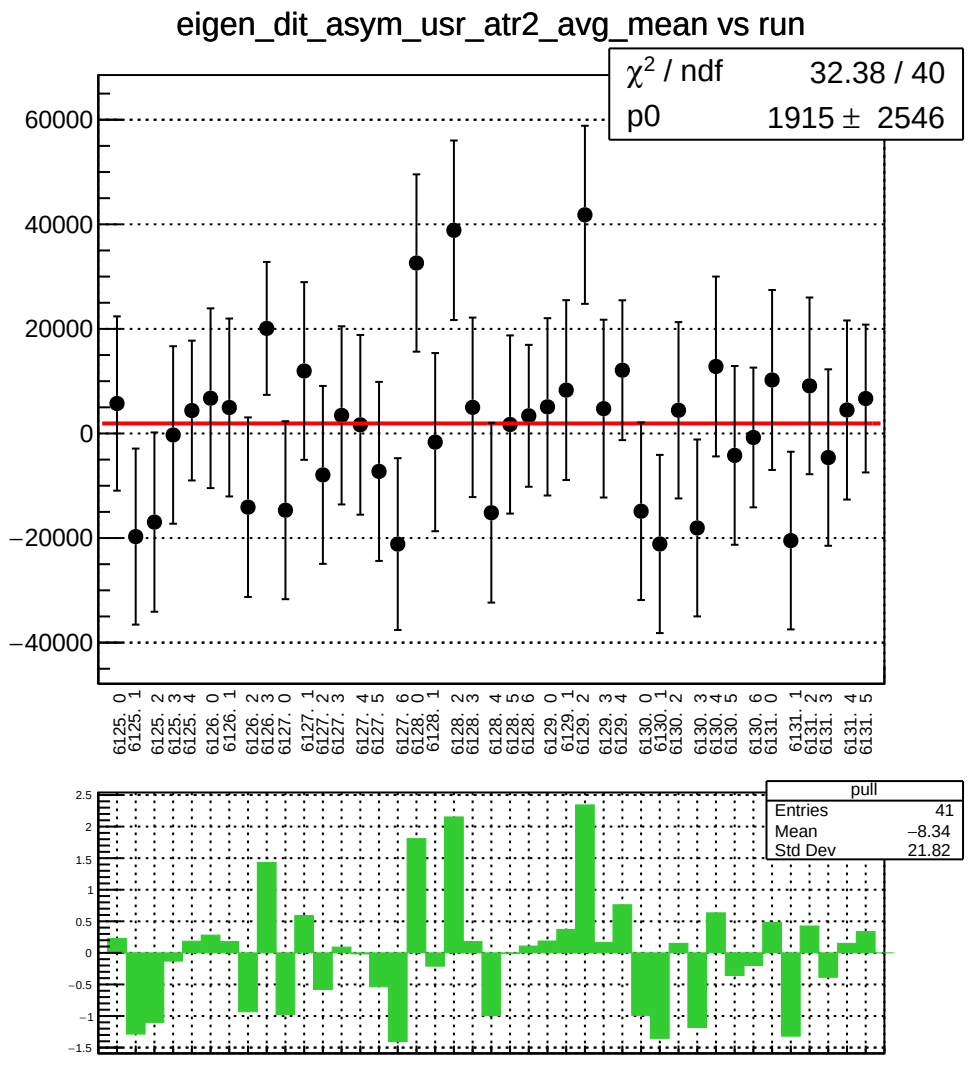

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 32.38 / 40
p0 1915 ± 2546
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −8.339
Std Dev 21.82
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

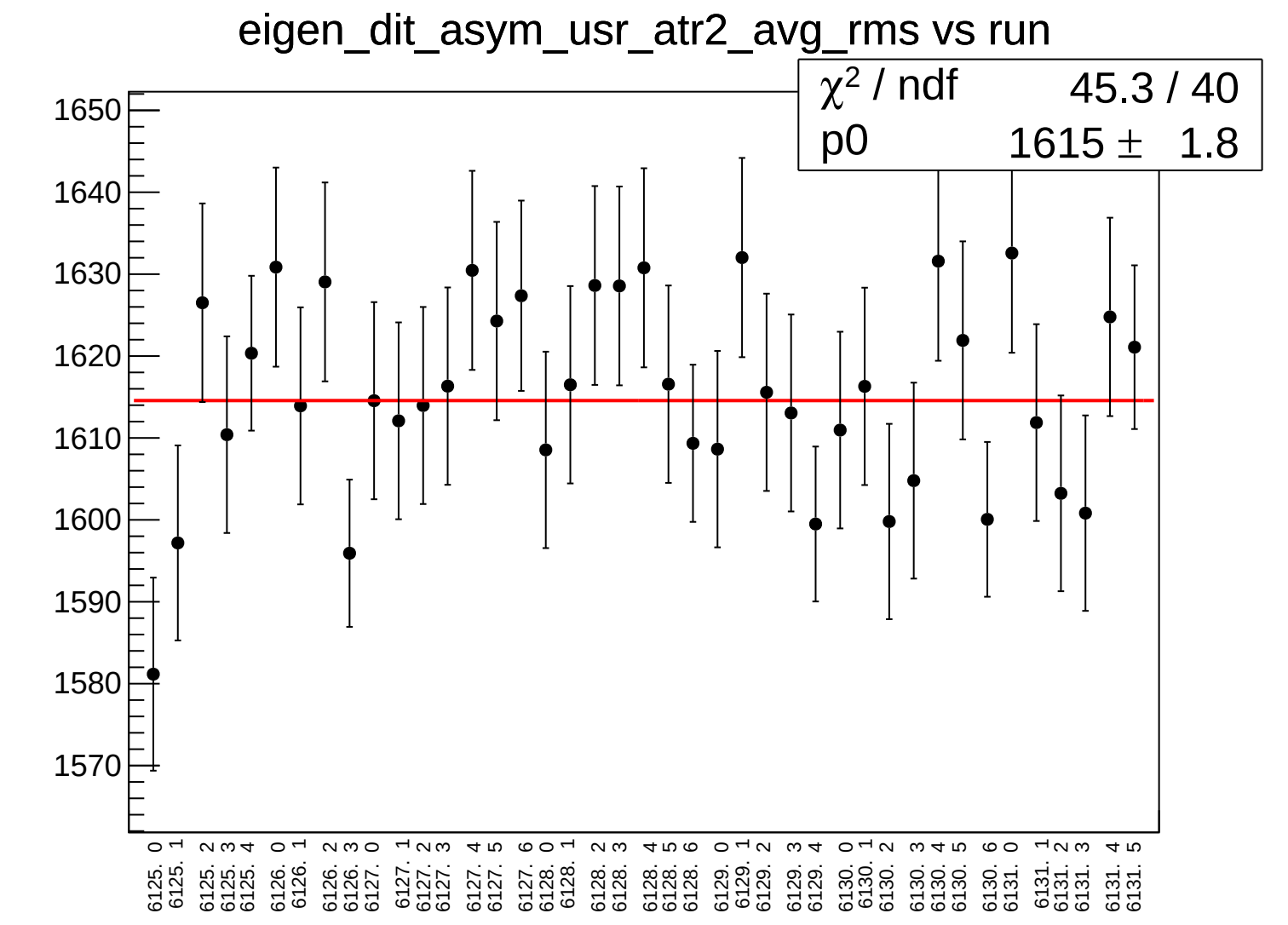

pull1D
Entries 41
Mean −0.0174
Std Dev 0.8885
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

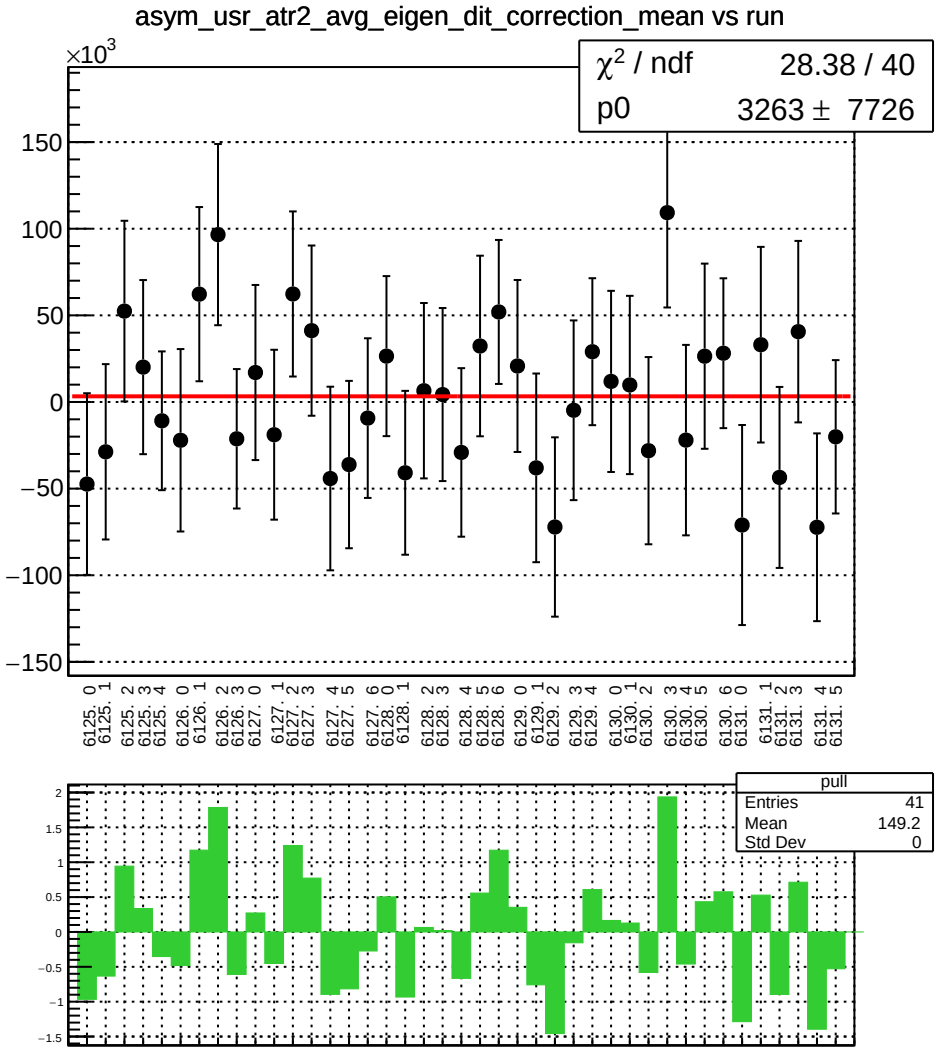

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 45.3 / 40
p0 1615 ± 1.8
1650
1640
1630
1620
1610
1600
1590
1580
1570
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

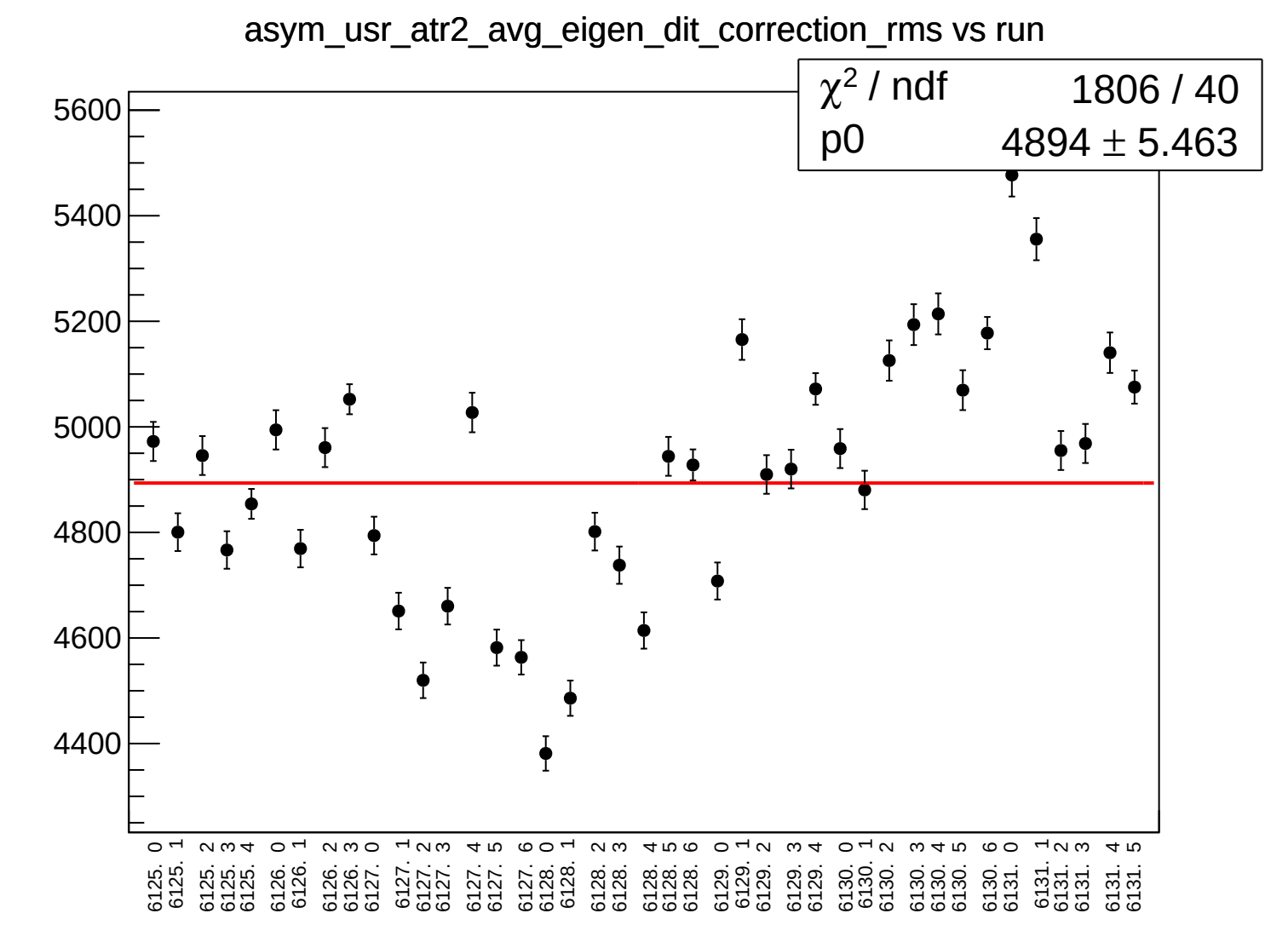

asym_usr_atr2_avg_dit_correction_mean vs run
χ² / ndf 28.38 / 40
p0 3263 ± 7726
pull
Entries 41
Mean 149.2
Std Dev 0
pull1D
Entries 41
Mean −0.007701
Std Dev 0.8319


asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 1806 / 40
p0 4894 ± 5.463
5600
5400
5200
5000
4800
4600
4400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 32.38 / 40
p0 1915 ± 2546
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −8.34
Std Dev 21.82
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.0174
Std Dev 0.8885
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 45.3 / 40
p0 1615 ± 1.8
1650
1640
1630
1620
1610
1600
1590
1580
1570
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 28.38 / 40
p0 3263 ± 7726
150
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 149.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.007701
Std Dev 0.8319
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1806 / 40
p0 4894 ± 5.463
5600
5400
5200
5000
4800
4600
4400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
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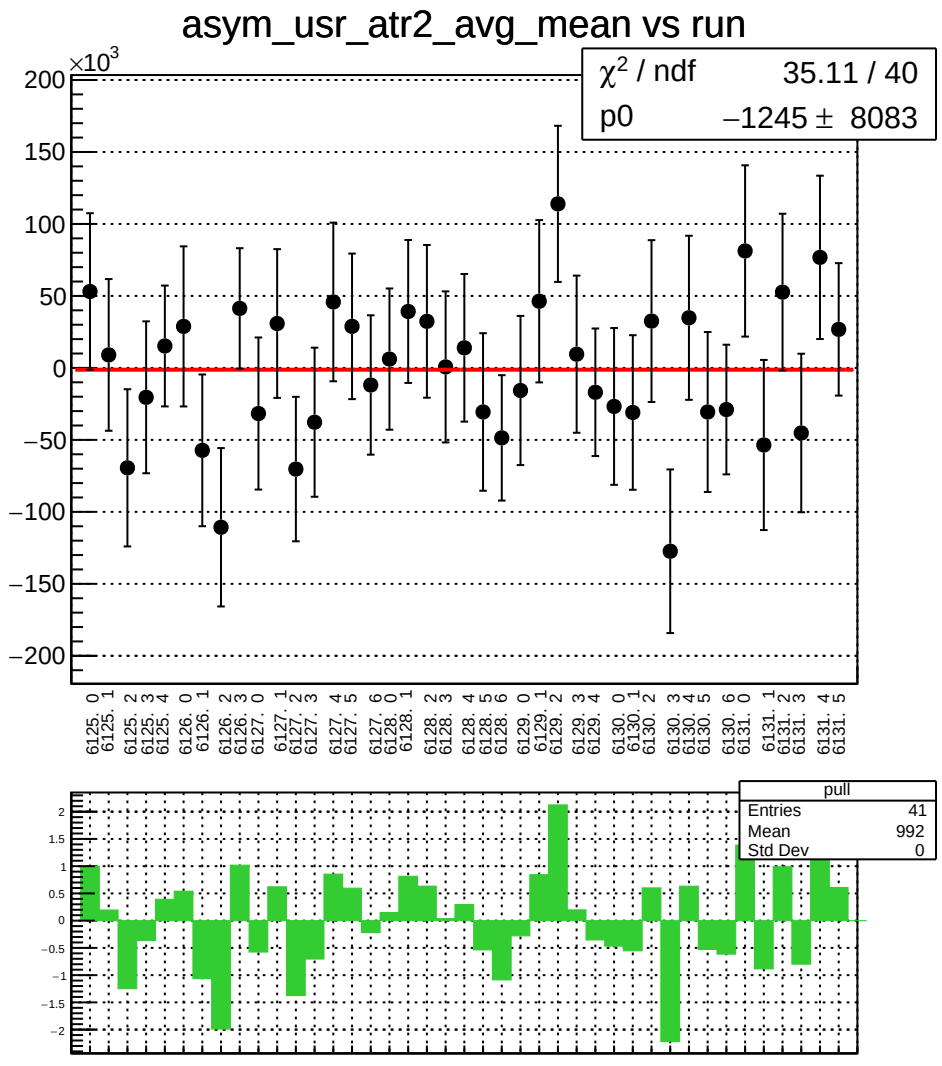
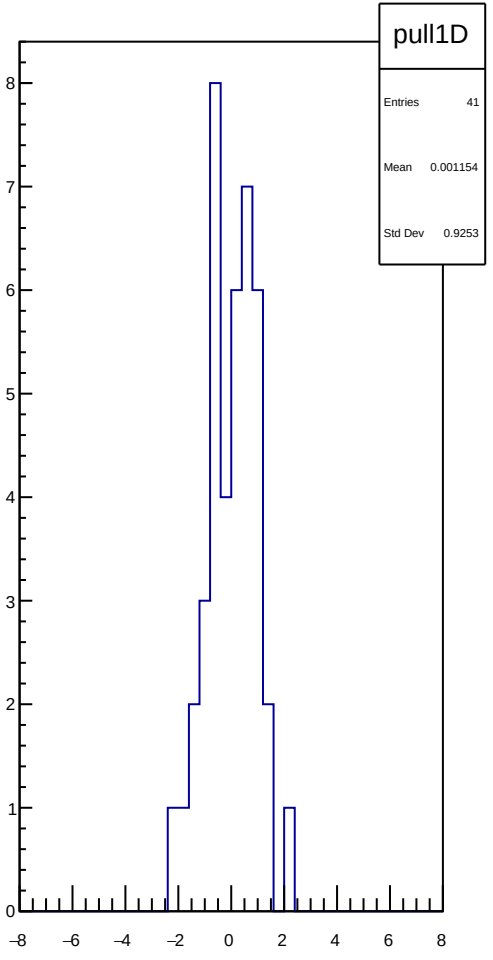
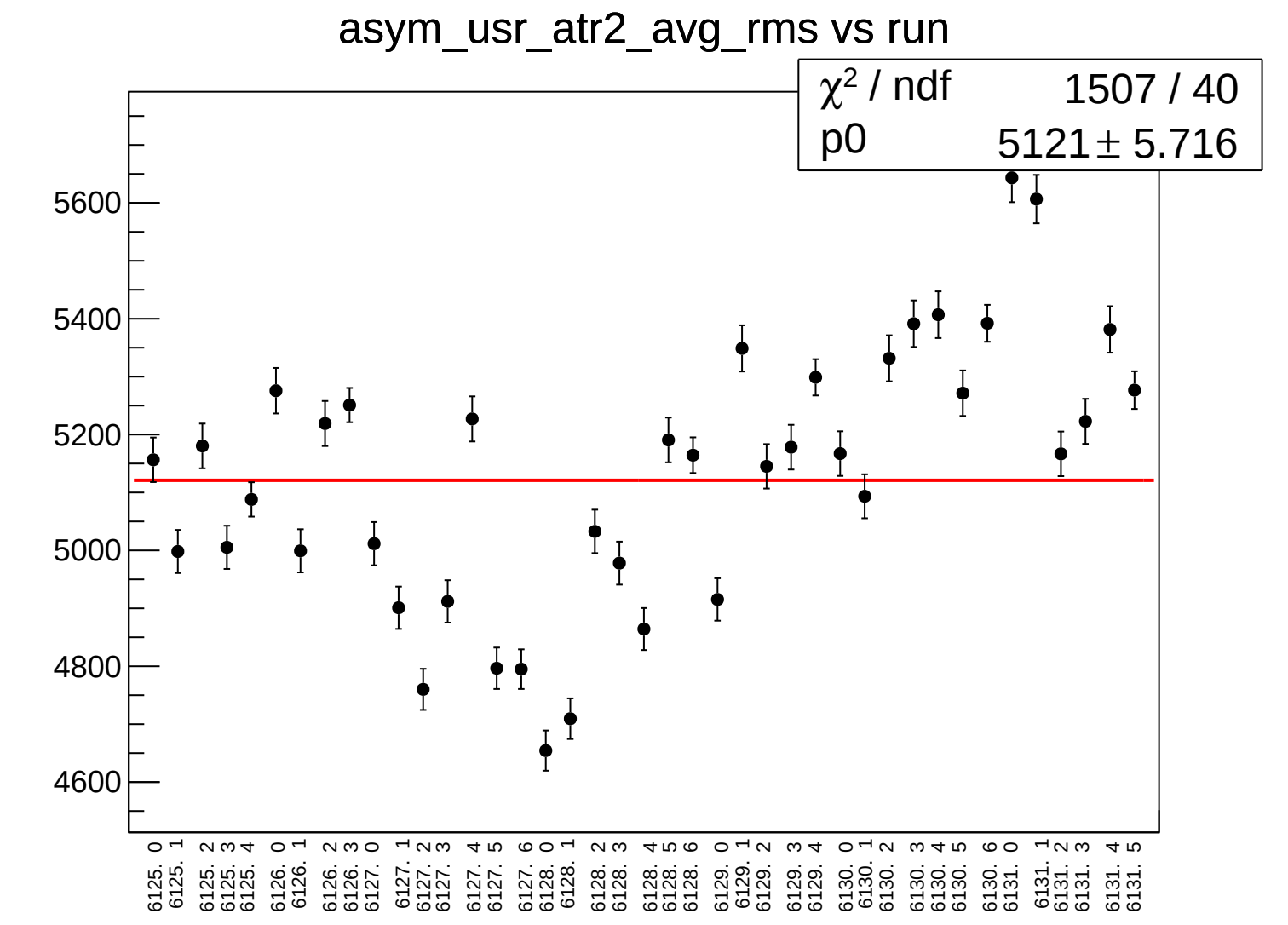
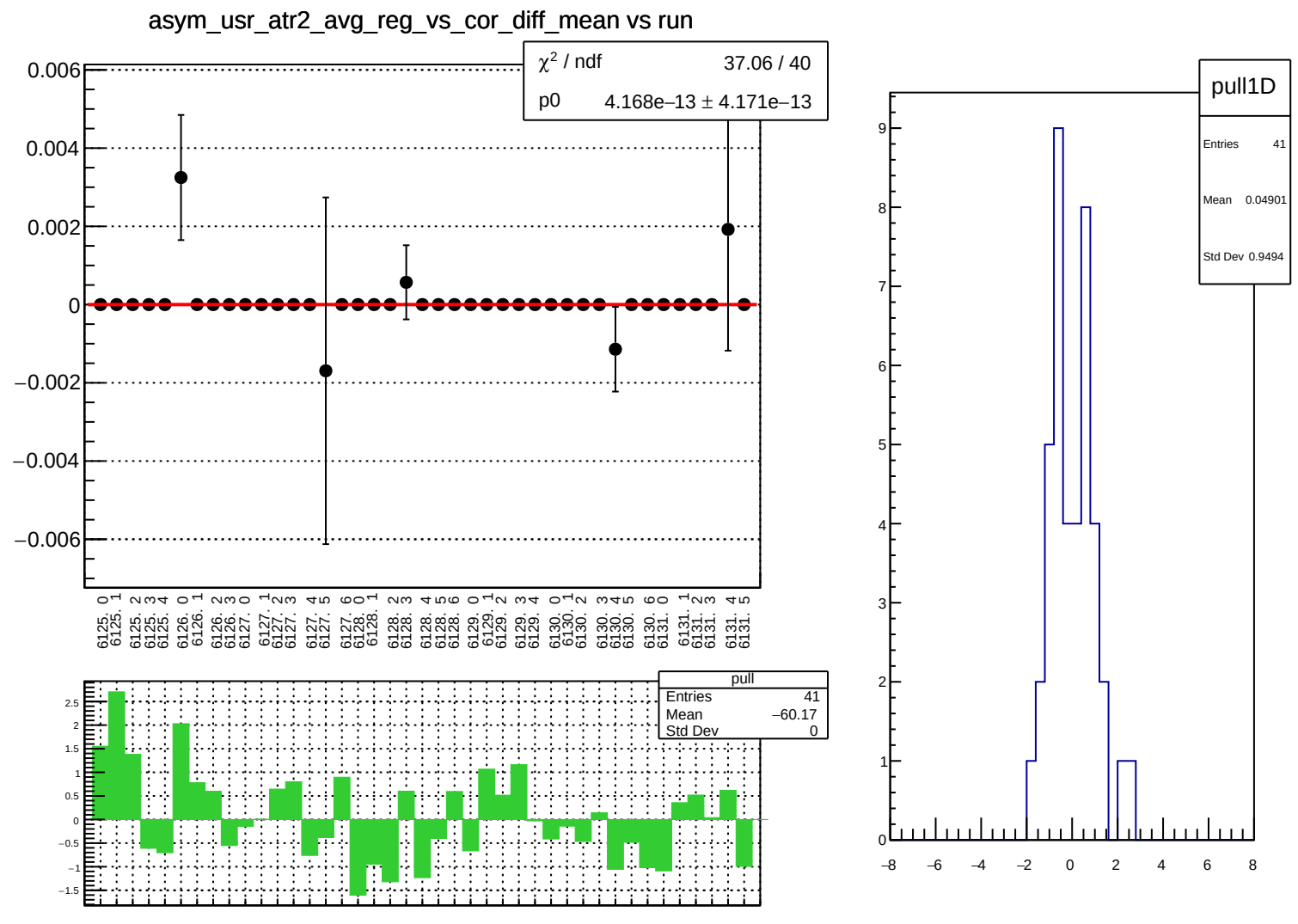
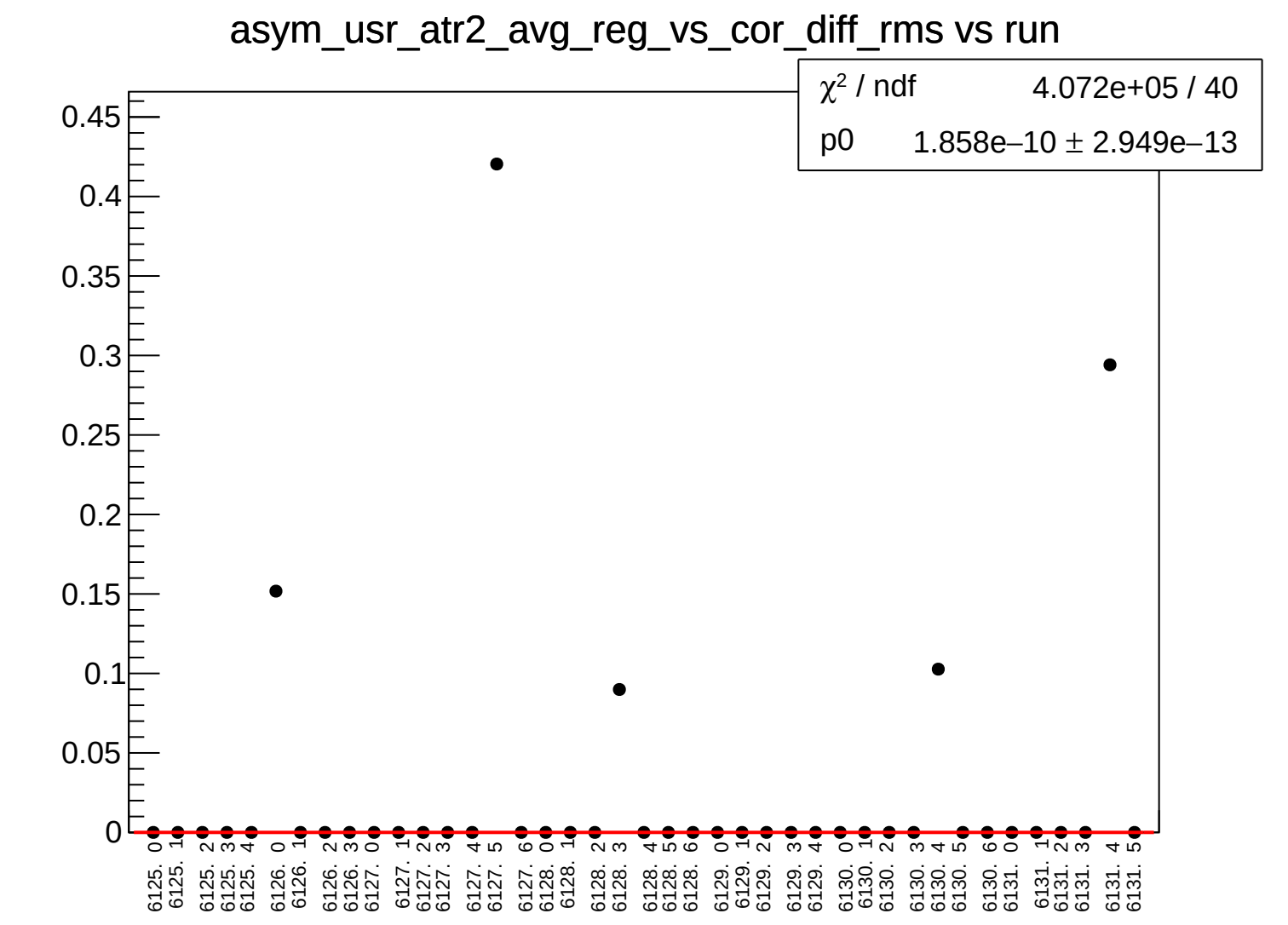
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

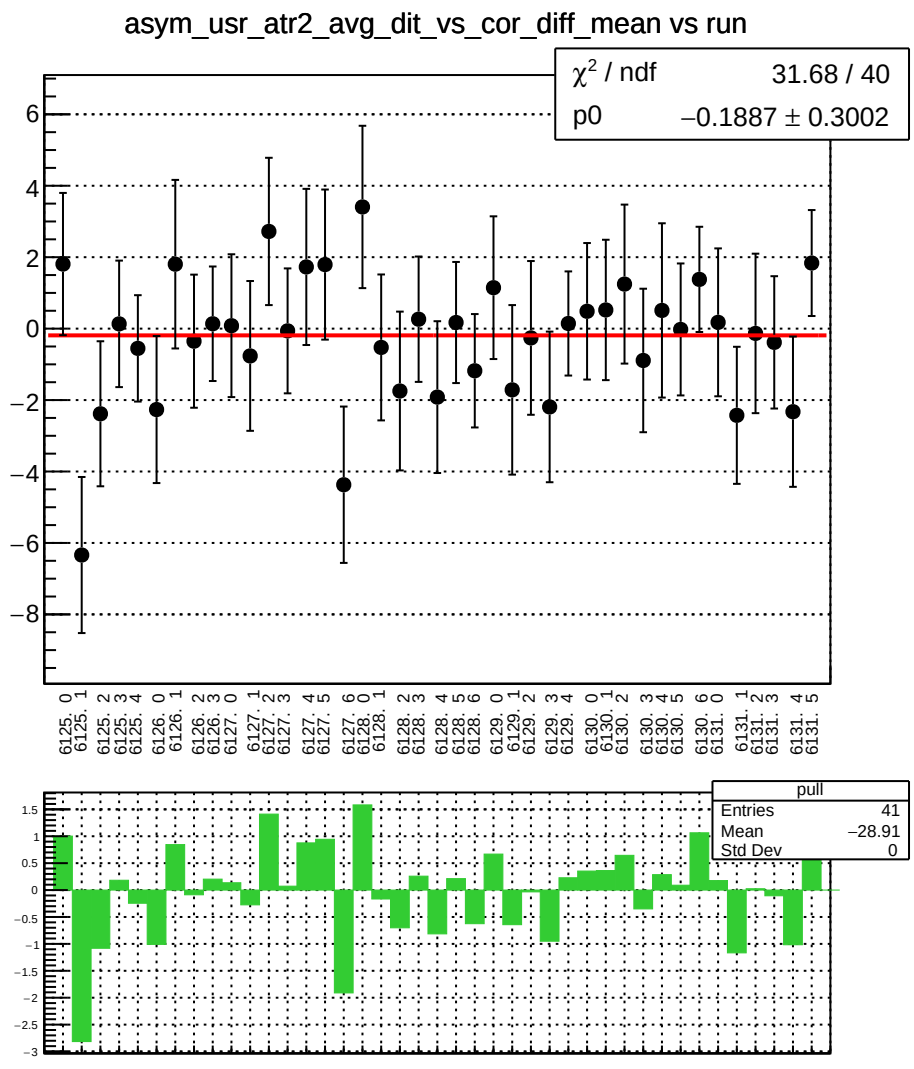

asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 35.11 / 40
p0 −1245 ± 8083
pull
Entries 41
Mean 992
Std Dev 0

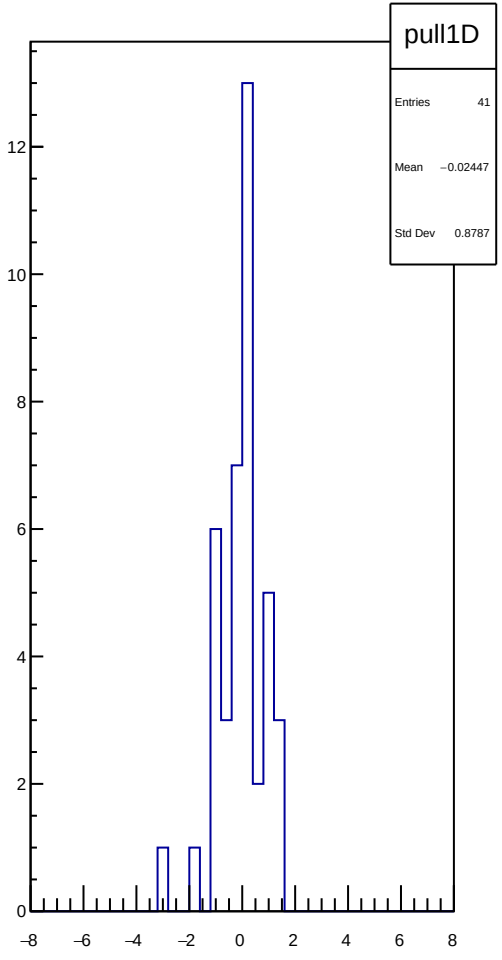

pull1D
Entries 41
Mean 0.001154
Std Dev 0.9253

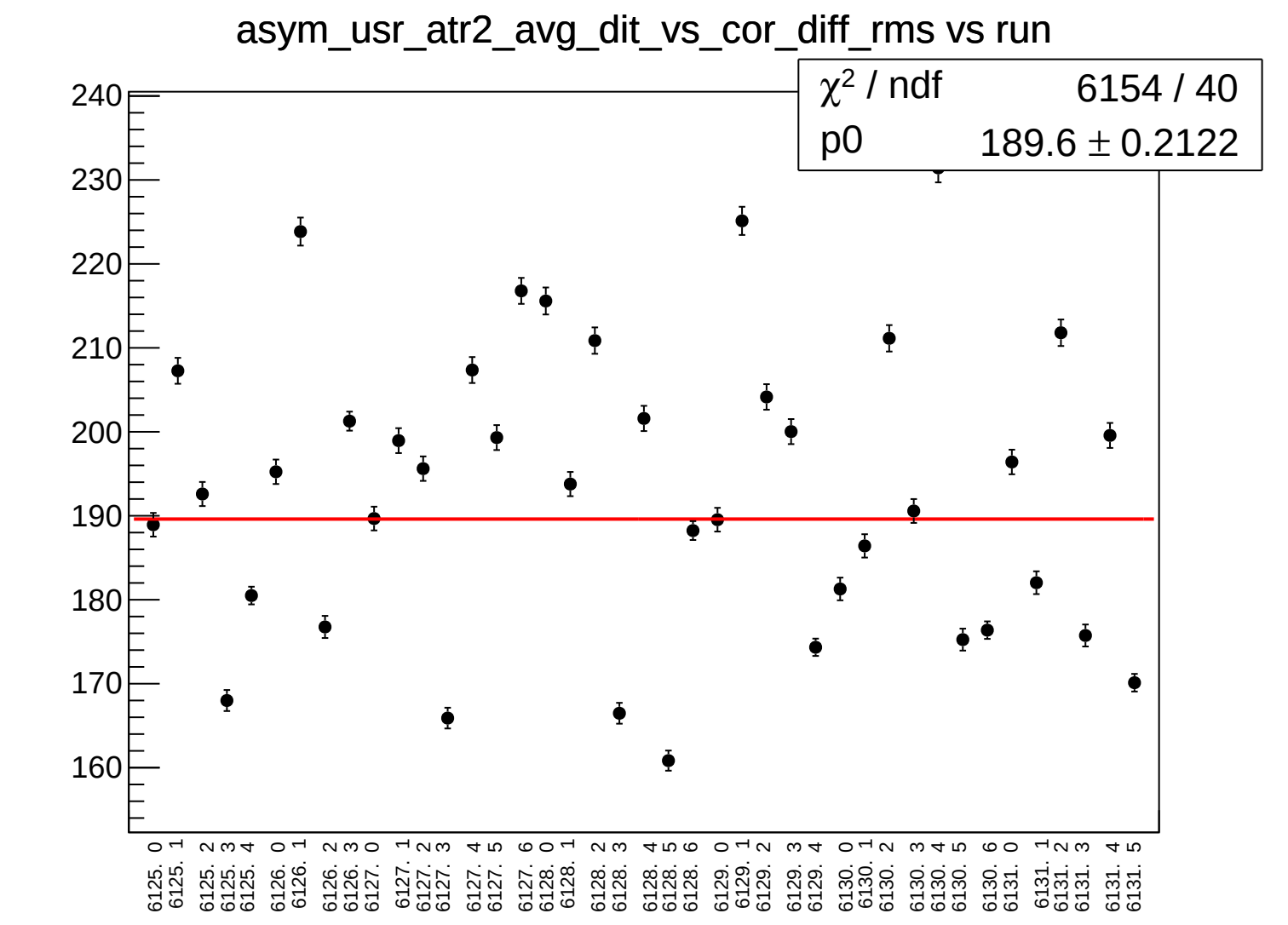

asym_usr_atr2_avg_rms vs run
χ² / ndf 1507 / 40
p0 5121 ± 5.716
5600
5400
5200
5000
4800
4600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 37.06 / 40
p0 4.168e−13 ± 4.171e−13
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −60.17
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.04901
Std Dev 0.9494
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 4.072e+05 / 40
p0 1.858e−10 ± 2.949e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 31.68 / 40
p0 −0.1887 ± 0.3002
pull
Entries 41
Mean −28.91
Std Dev 0


pull1D
Entries 41
Mean −0.02447
Std Dev 0.8787


asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6154 / 40
p0 189.6 ± 0.2122
240
230
220
210
200
190
180
170
160
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
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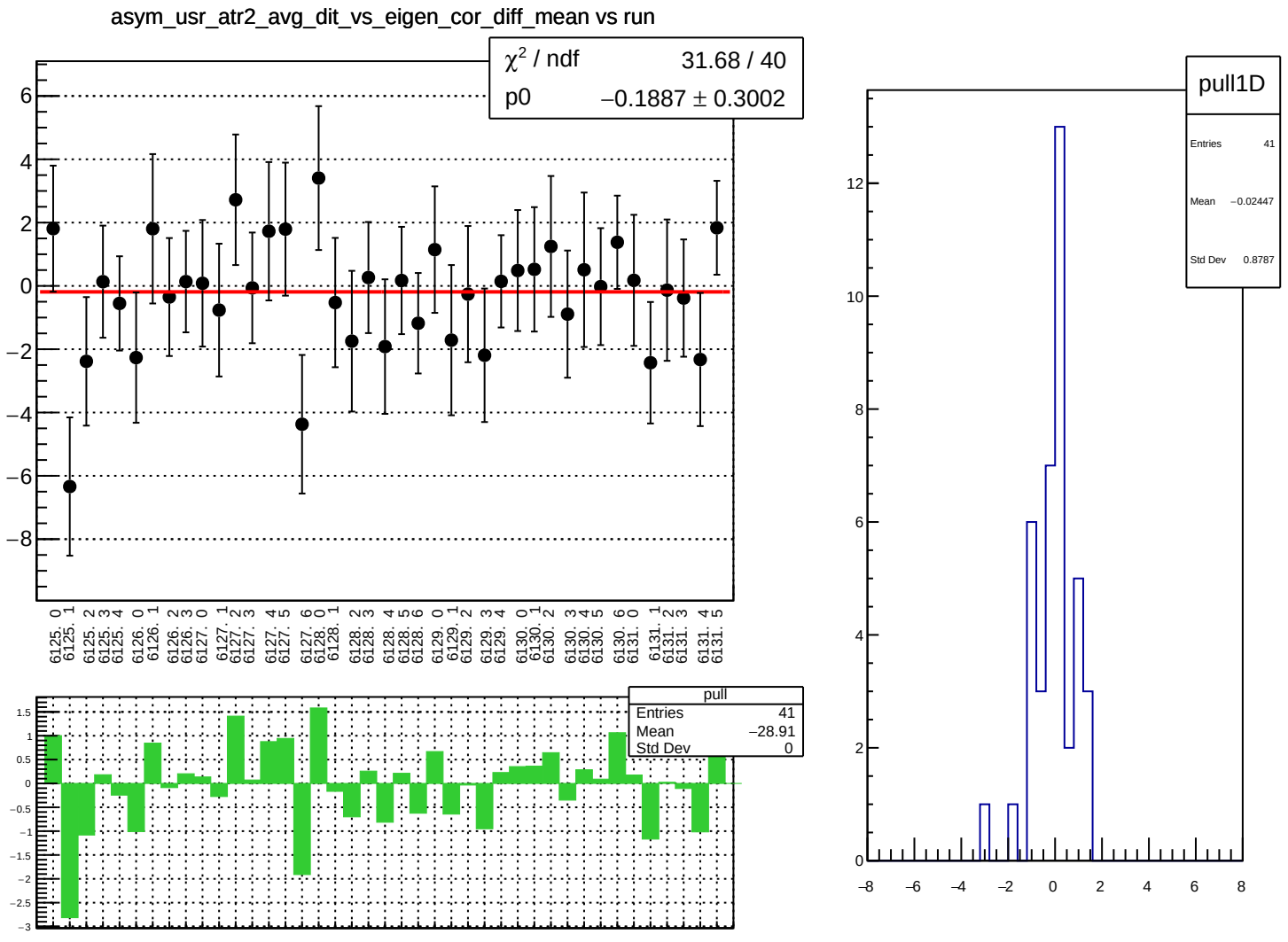
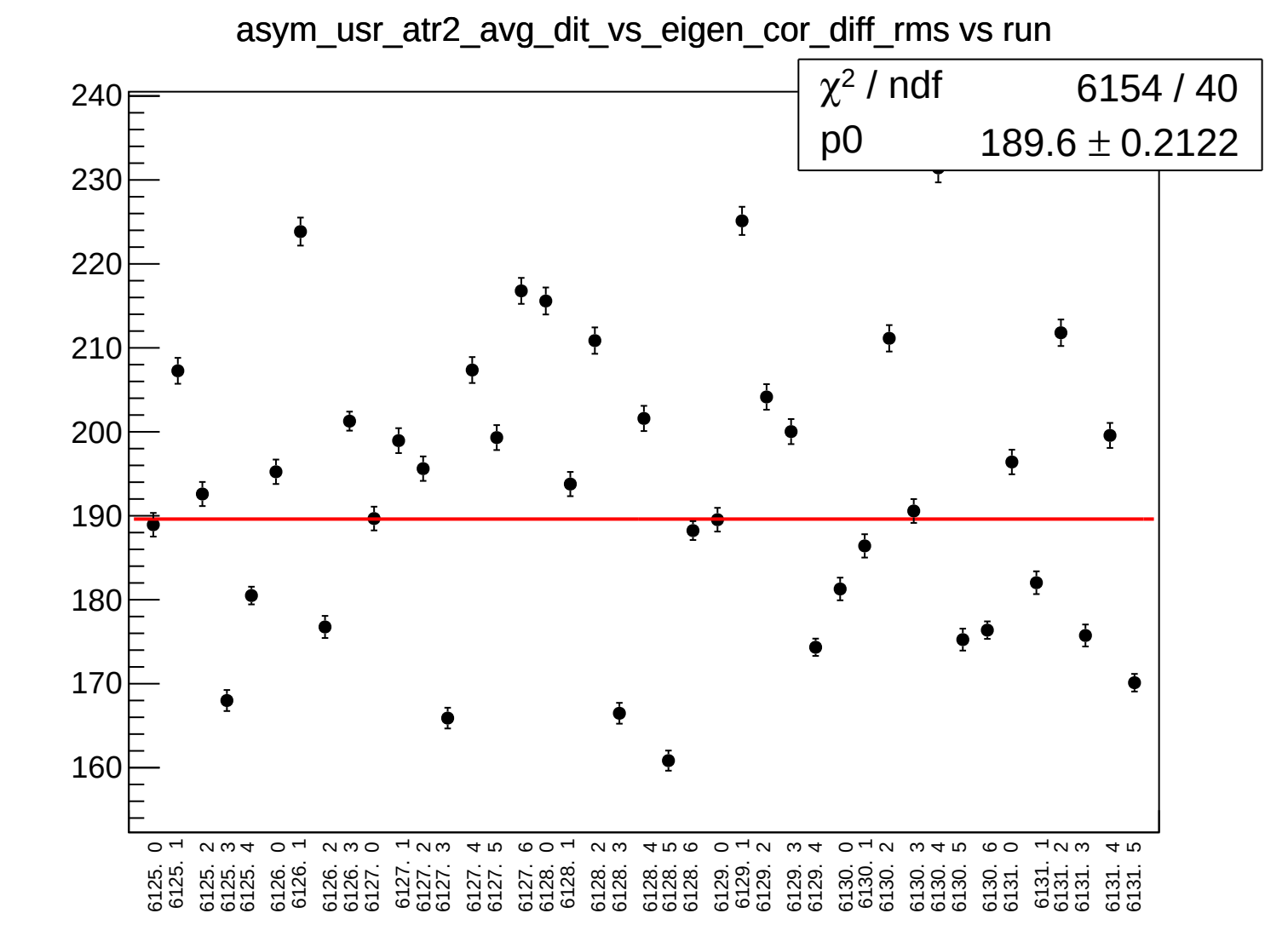
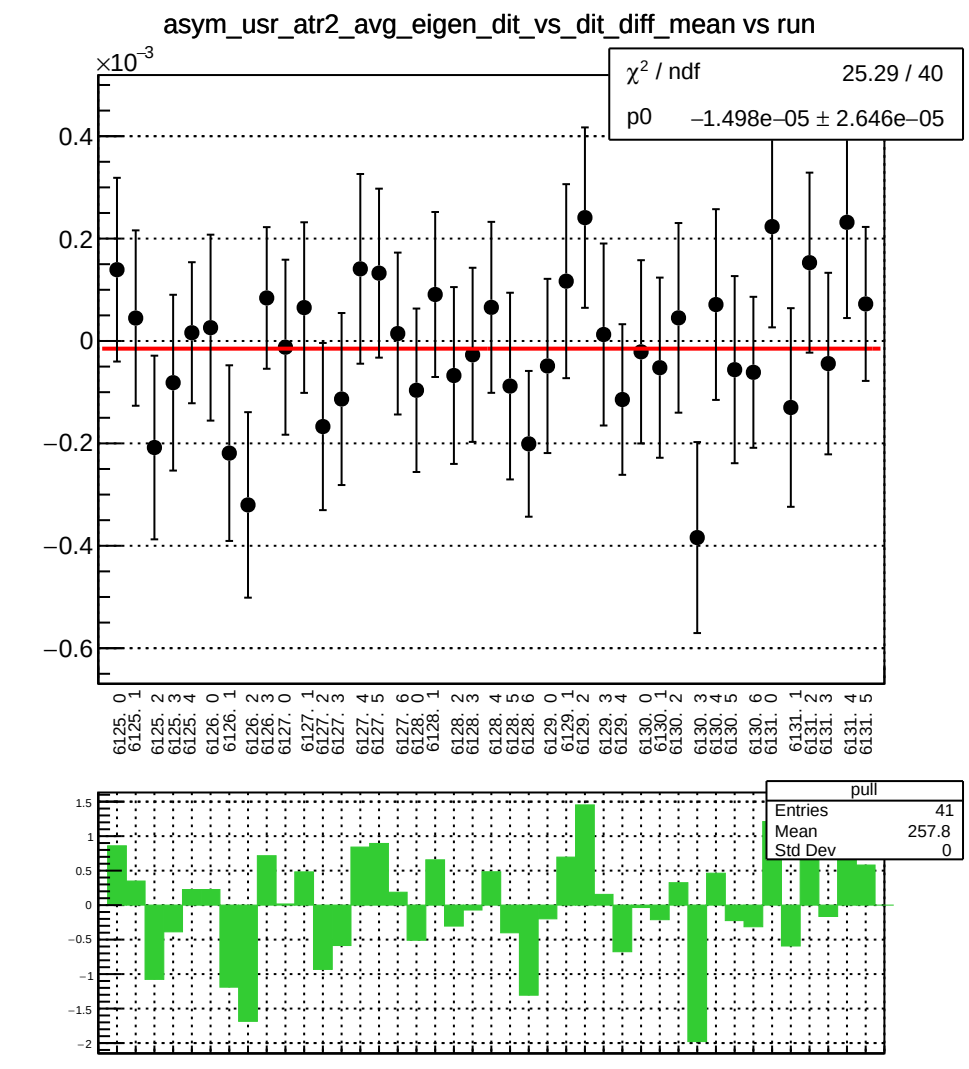
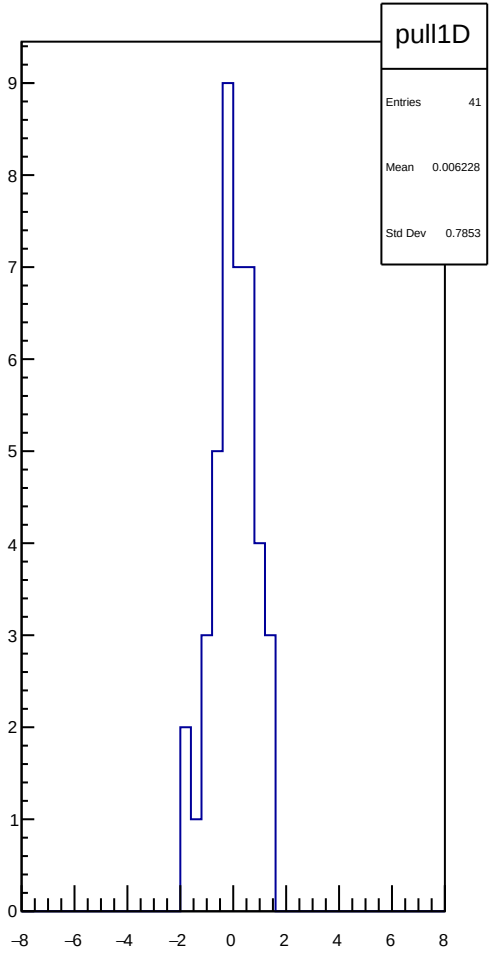
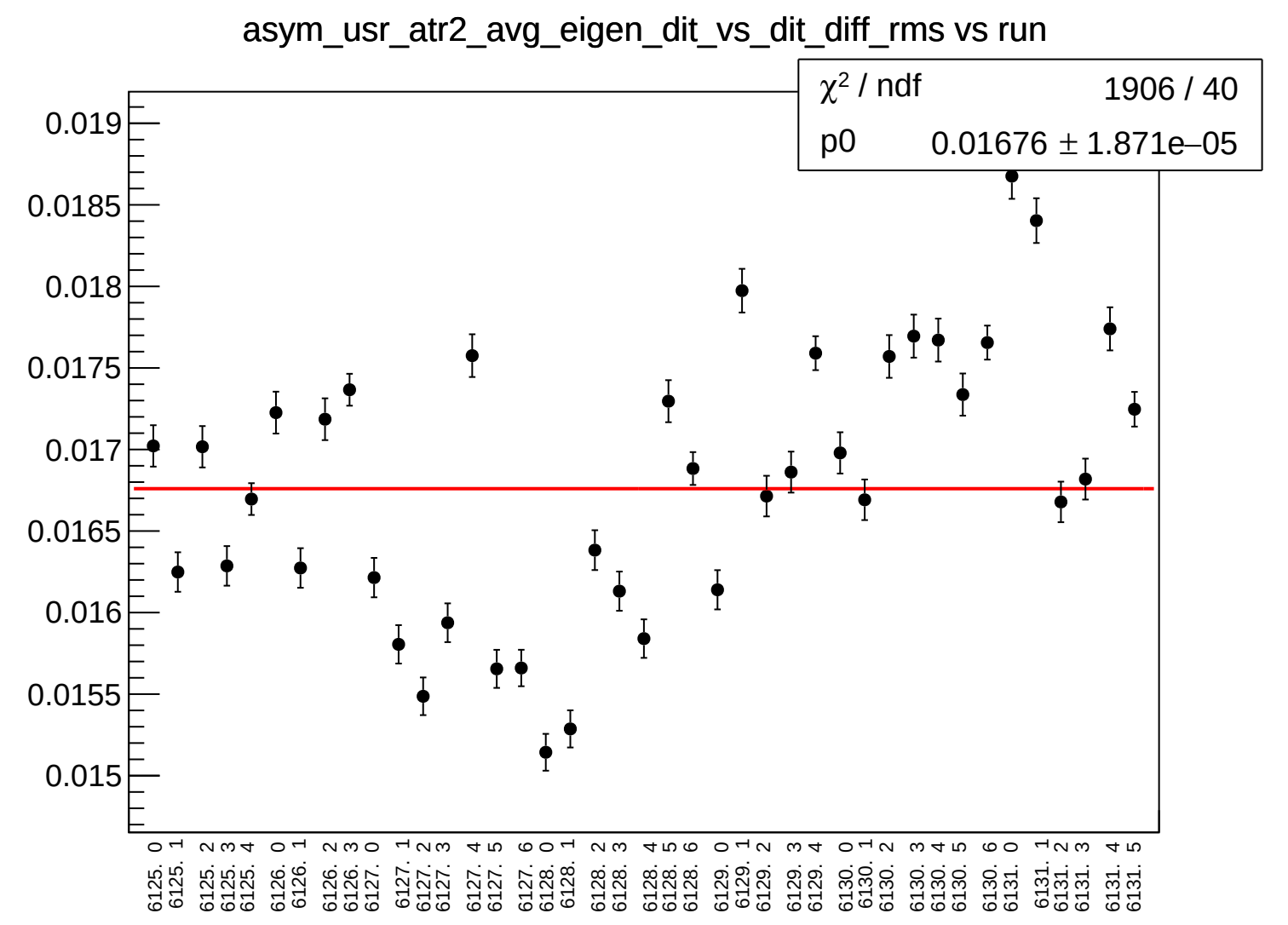
6131. 4
6131. 5

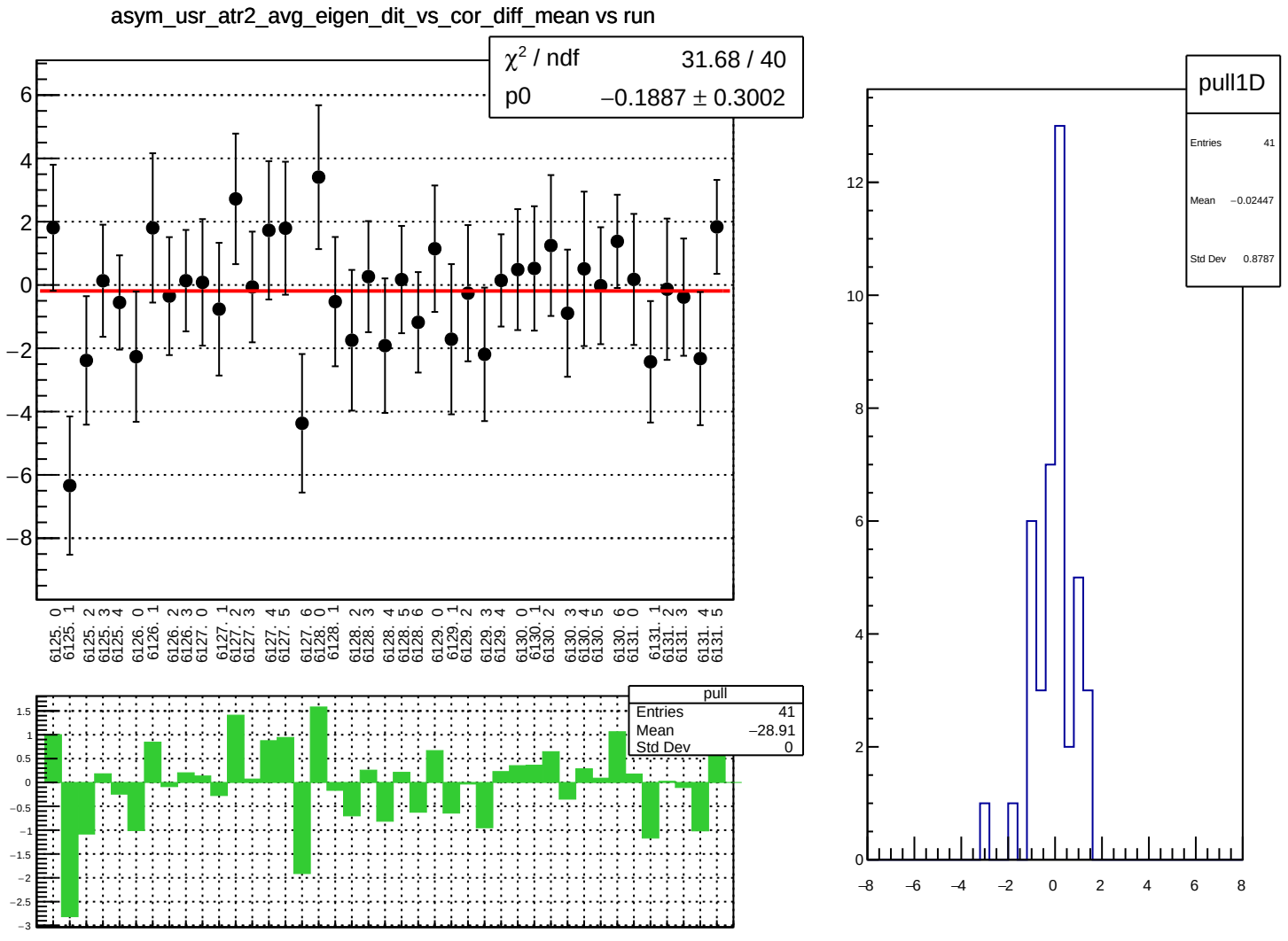

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.68 / 40
p0 −0.1887 ± 0.3002
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −28.91
Std Dev 0
pull1D
Entries 41
Mean −0.02447
Std Dev 0.8787

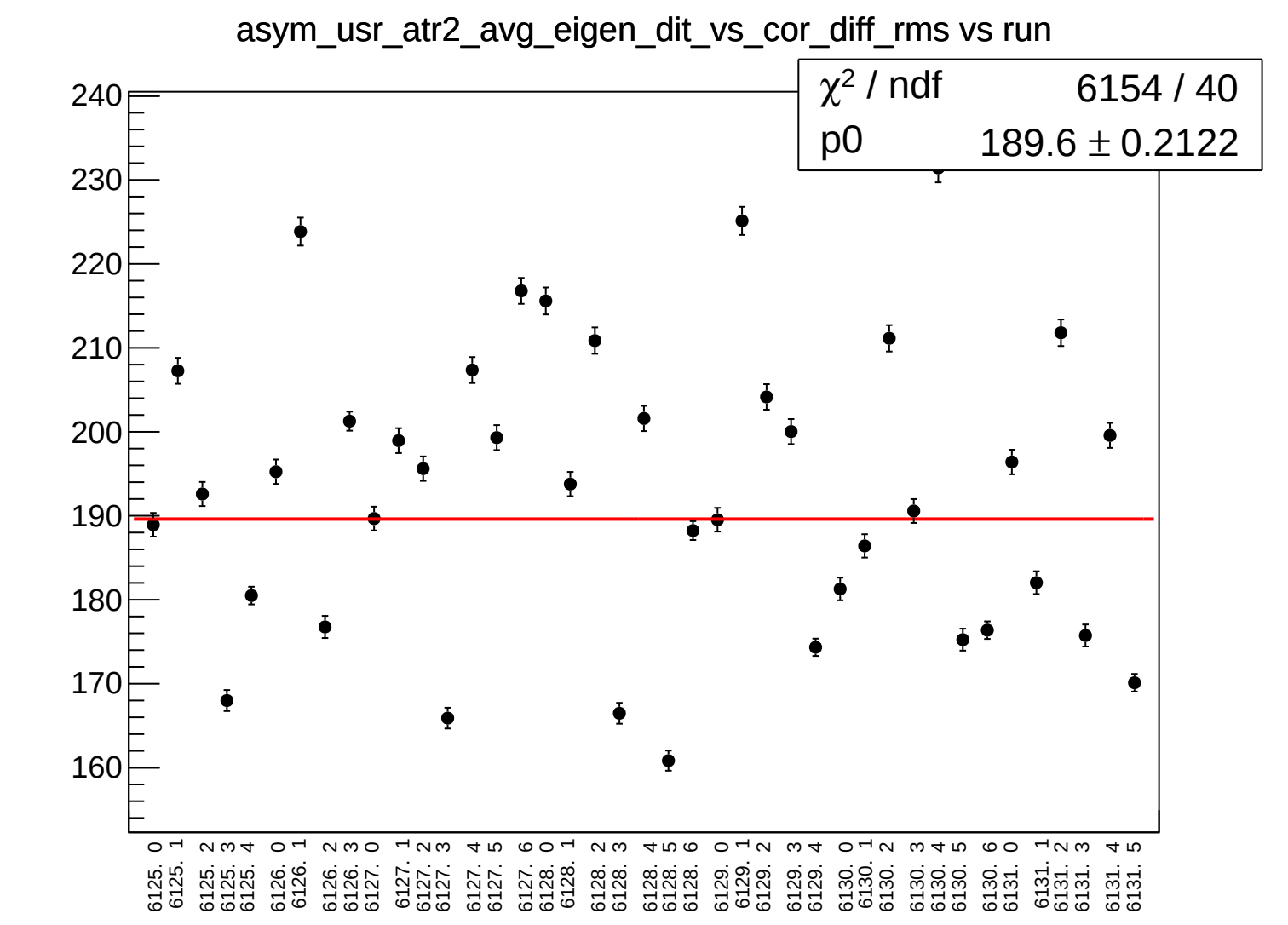

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6154 / 40
p0 189.6 ± 0.2122
240
230
220
210
200
190
180
170
160
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

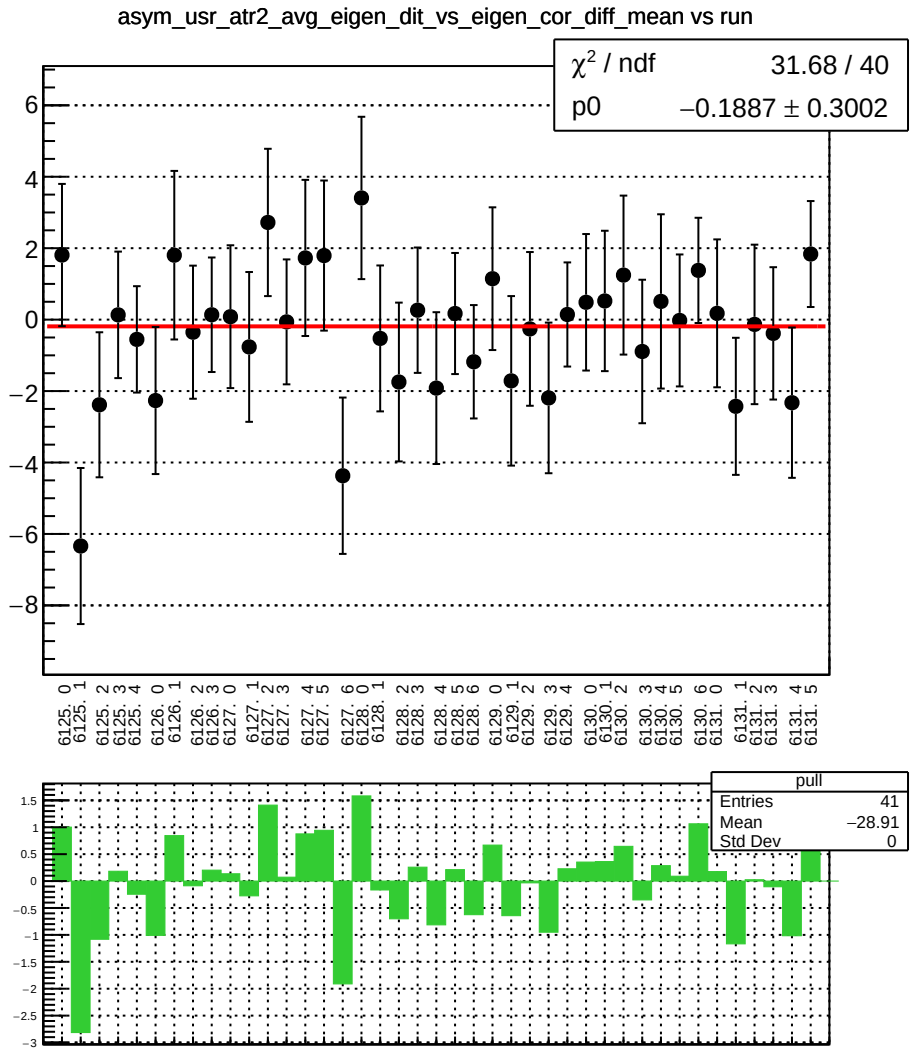

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 25.29 / 40
p0 −1.498e−05 ± 2.646e−05
0.4
0.2
0
−0.2
−0.4
−0.6
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 257.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

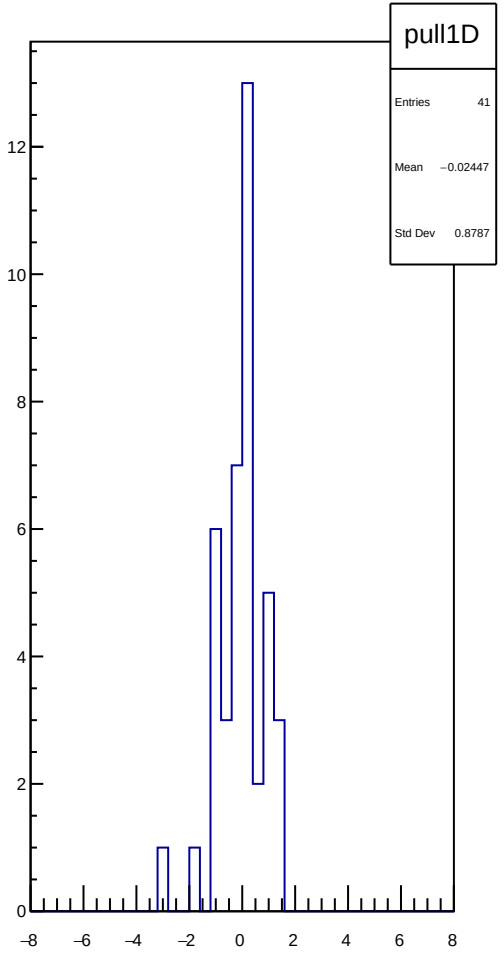

pull1D
Entries 41
Mean 0.006228
Std Dev 0.7853
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

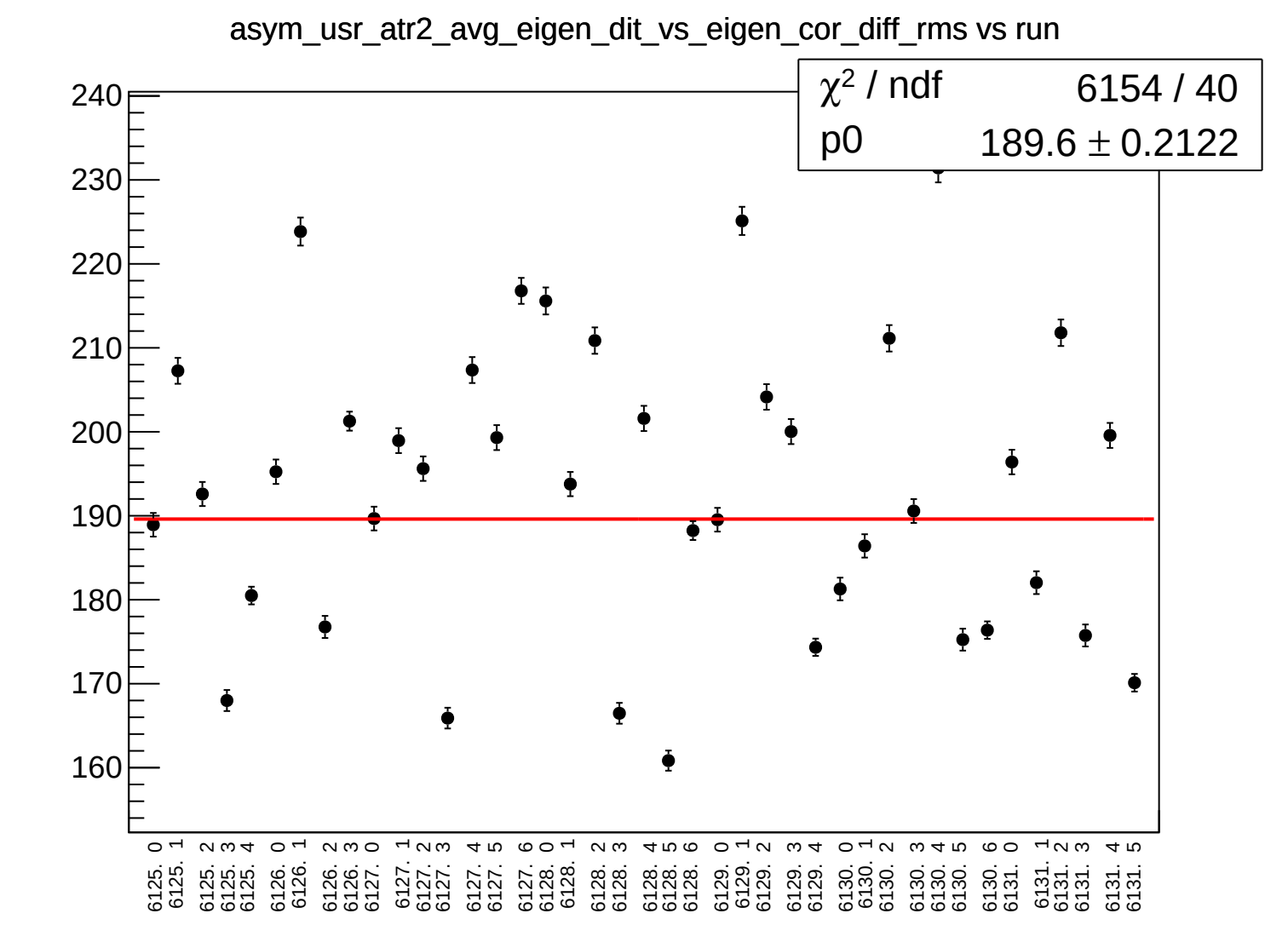

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1906 / 40
p0 0.01676 ± 1.871e−05
0.019
0.0185
0.018
0.0175
0.017
0.0165
0.016
0.0155
0.015
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

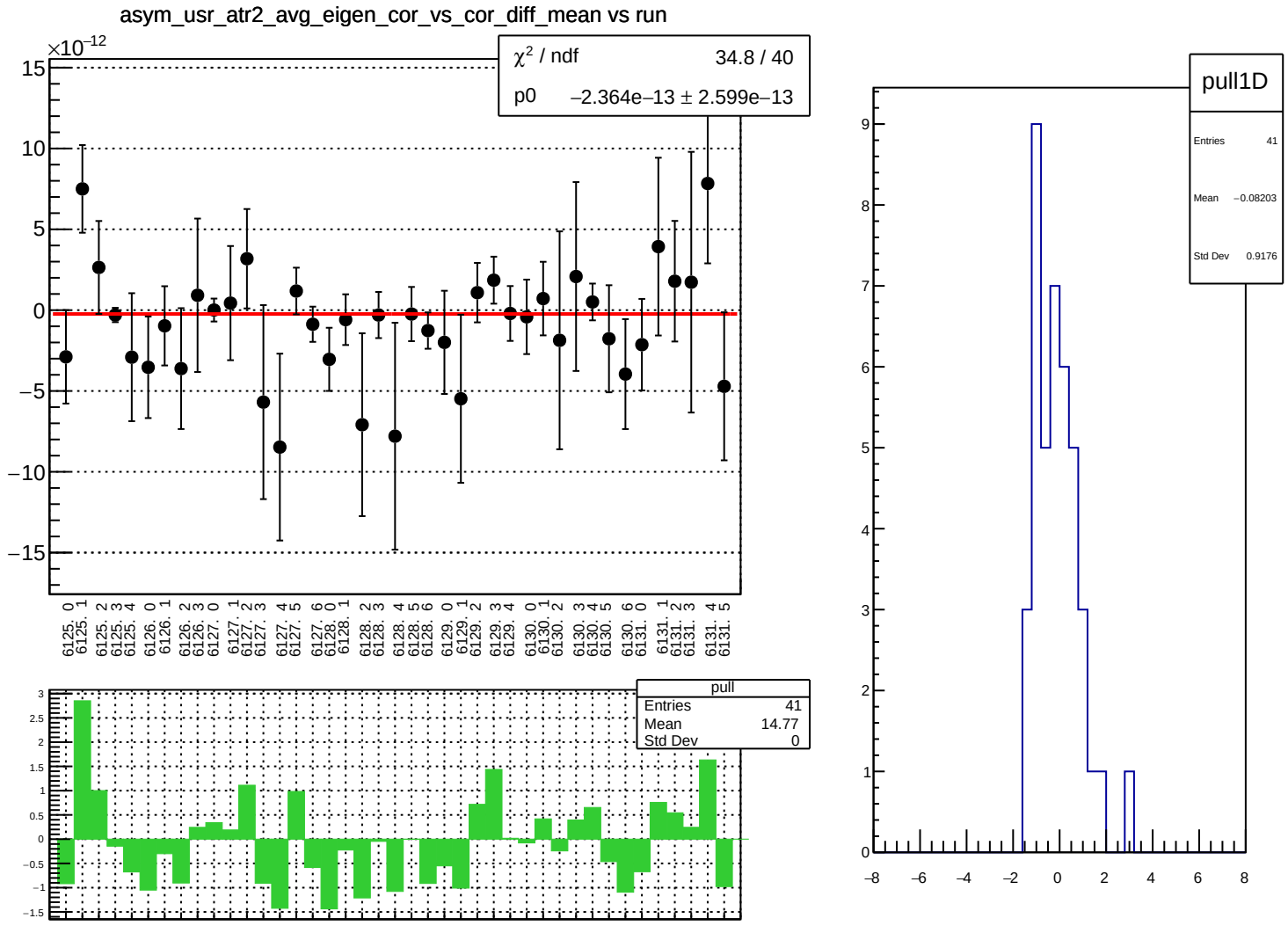

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 31.68 / 40
p0 −0.1887 ± 0.3002
pull
Entries 41
Mean −28.91
Std Dev 0
pull1D
Entries 41
Mean −0.02447
Std Dev 0.8787

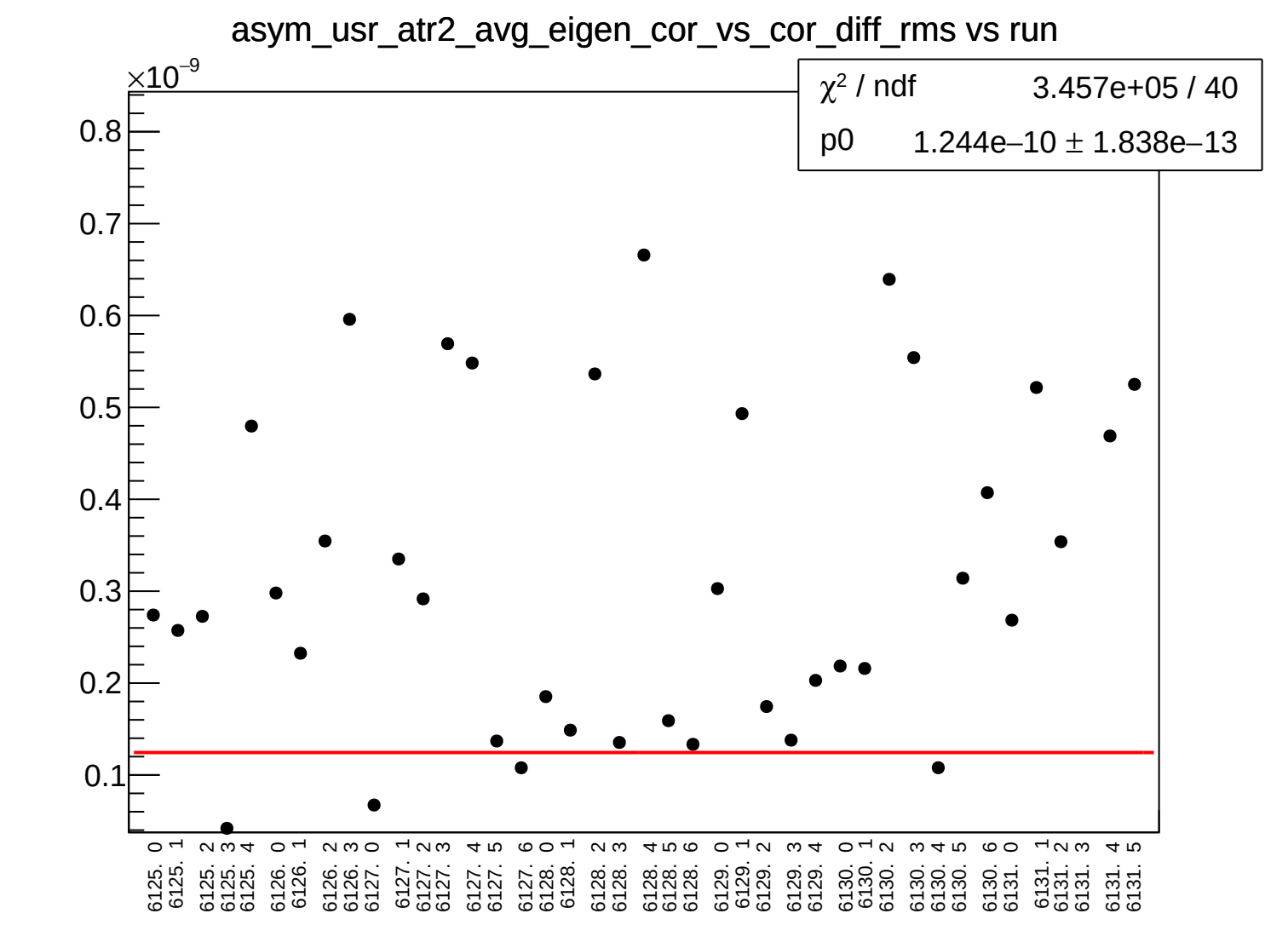

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6154 / 40
p0 189.6 ± 0.2122
240
230
220
210
200
190
180
170
160
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

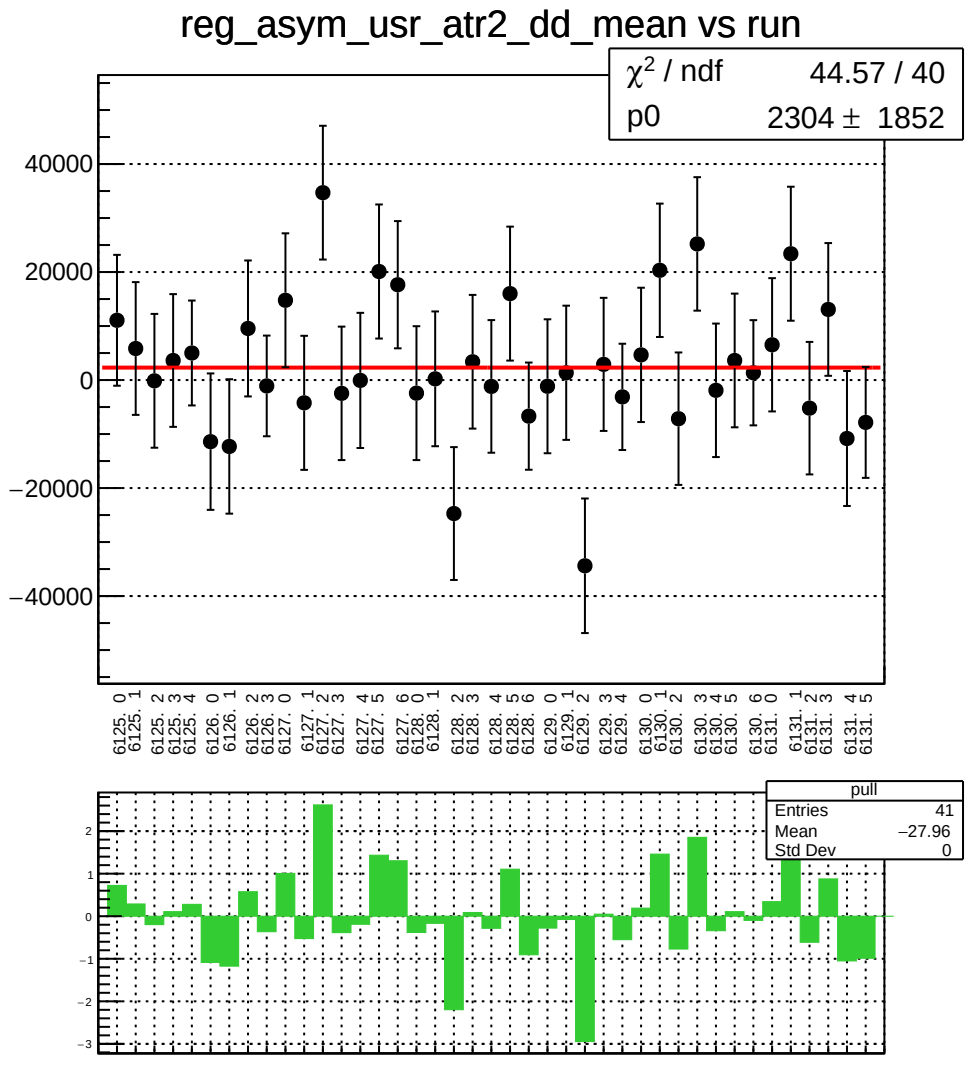

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.68 / 40
p0 −0.1887 ± 0.3002
pull
Entries 41
Mean −28.91
Std Dev 0

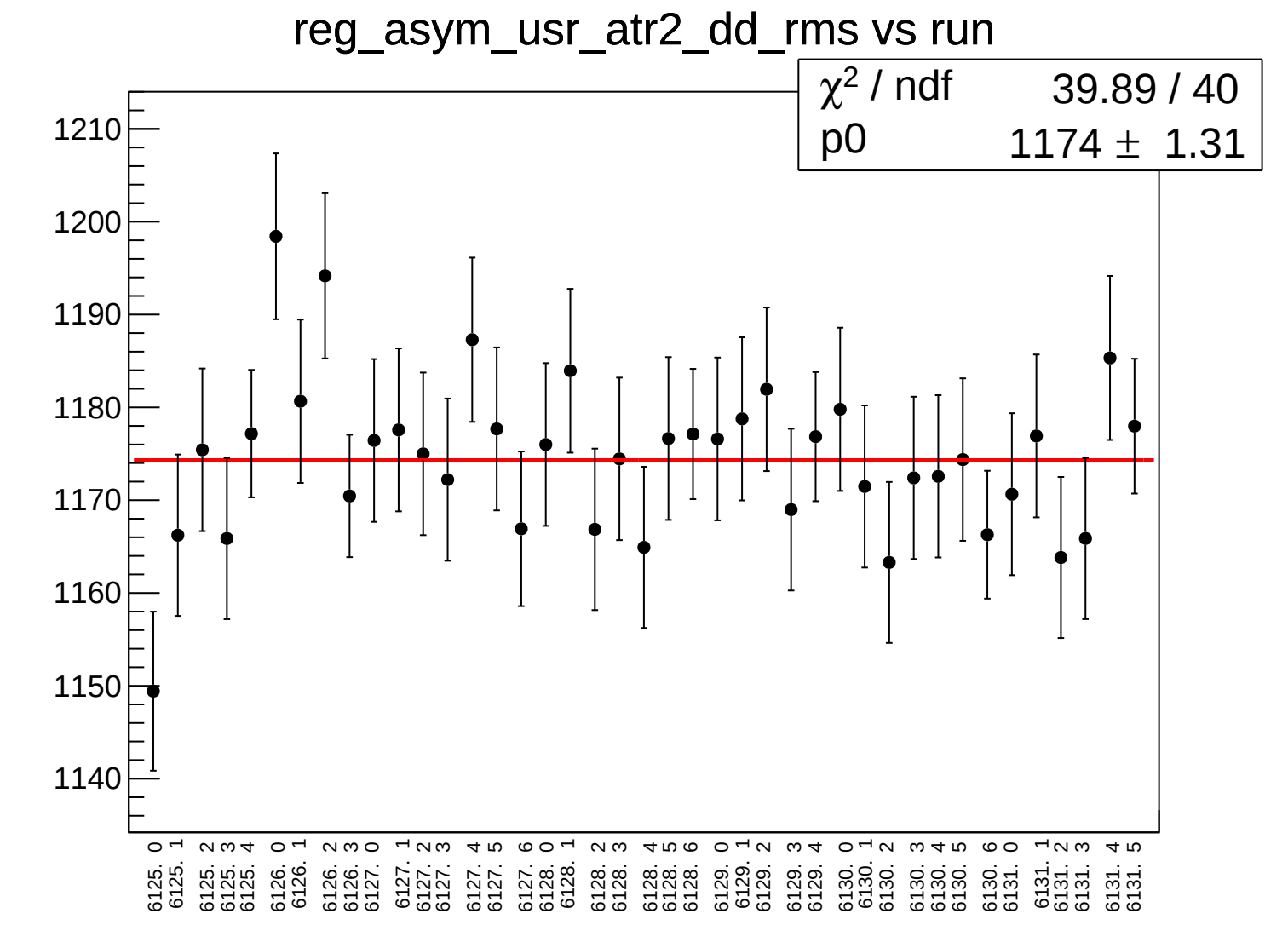

pull1D
Entries 41
Mean −0.02447
Std Dev 0.8787

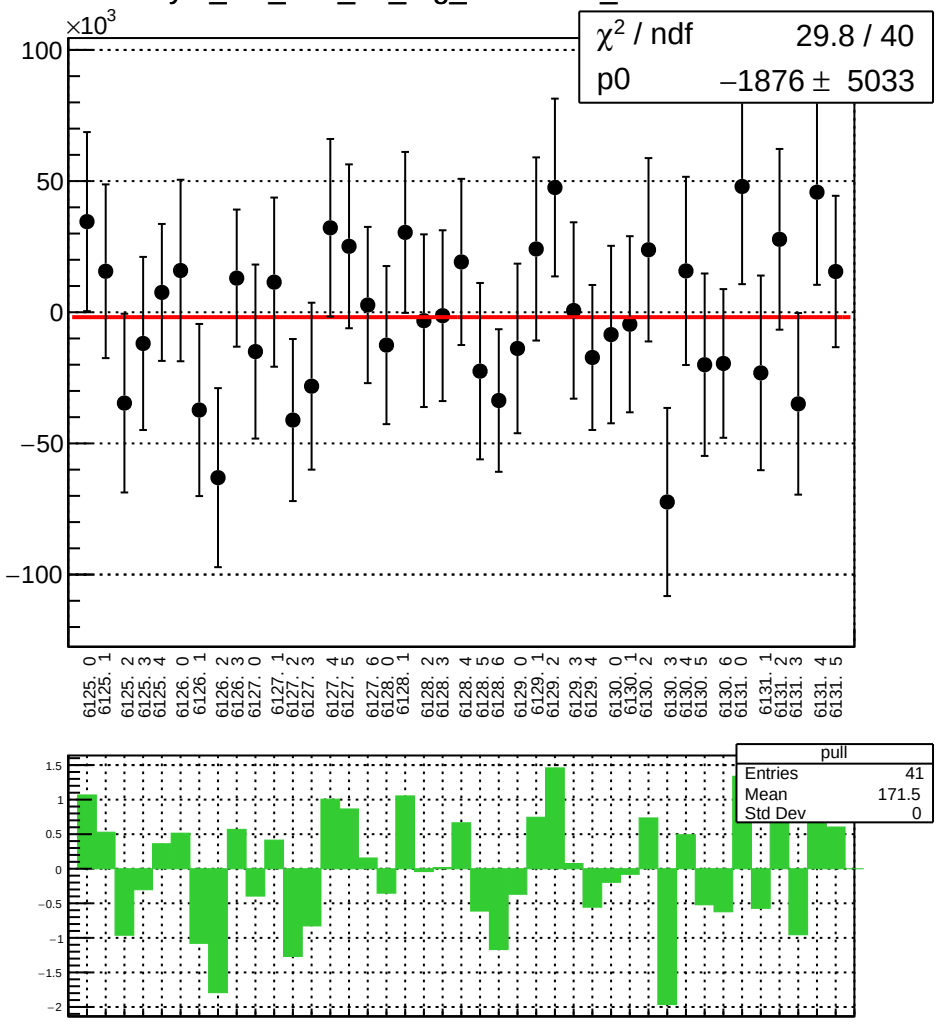

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6154 / 40
p0 189.6 ± 0.2122
240
230
220
210
200
190
180
170
160
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

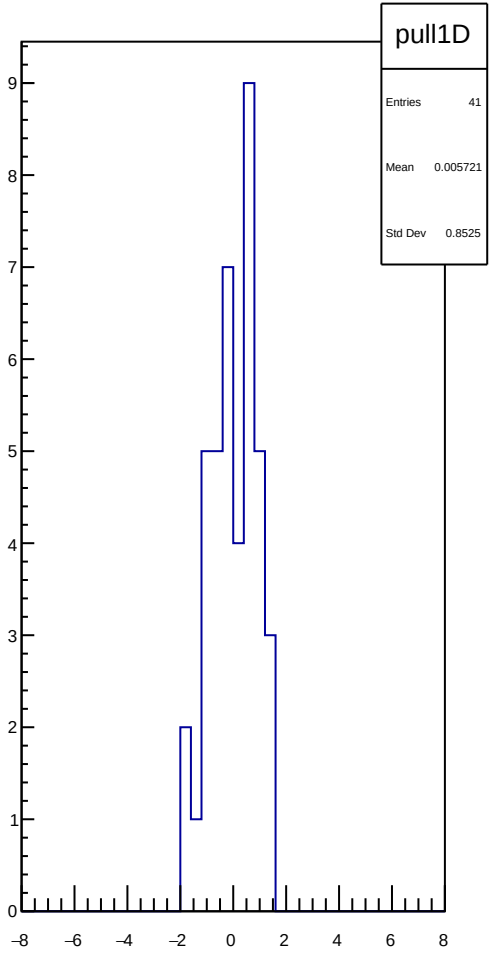

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.8 / 40
p0 −2.364e−13 ± 2.599e−13
pull
Entries 41
Mean 14.77
Std Dev 0
pull1D
Entries 41
Mean −0.08203
Std Dev 0.9176

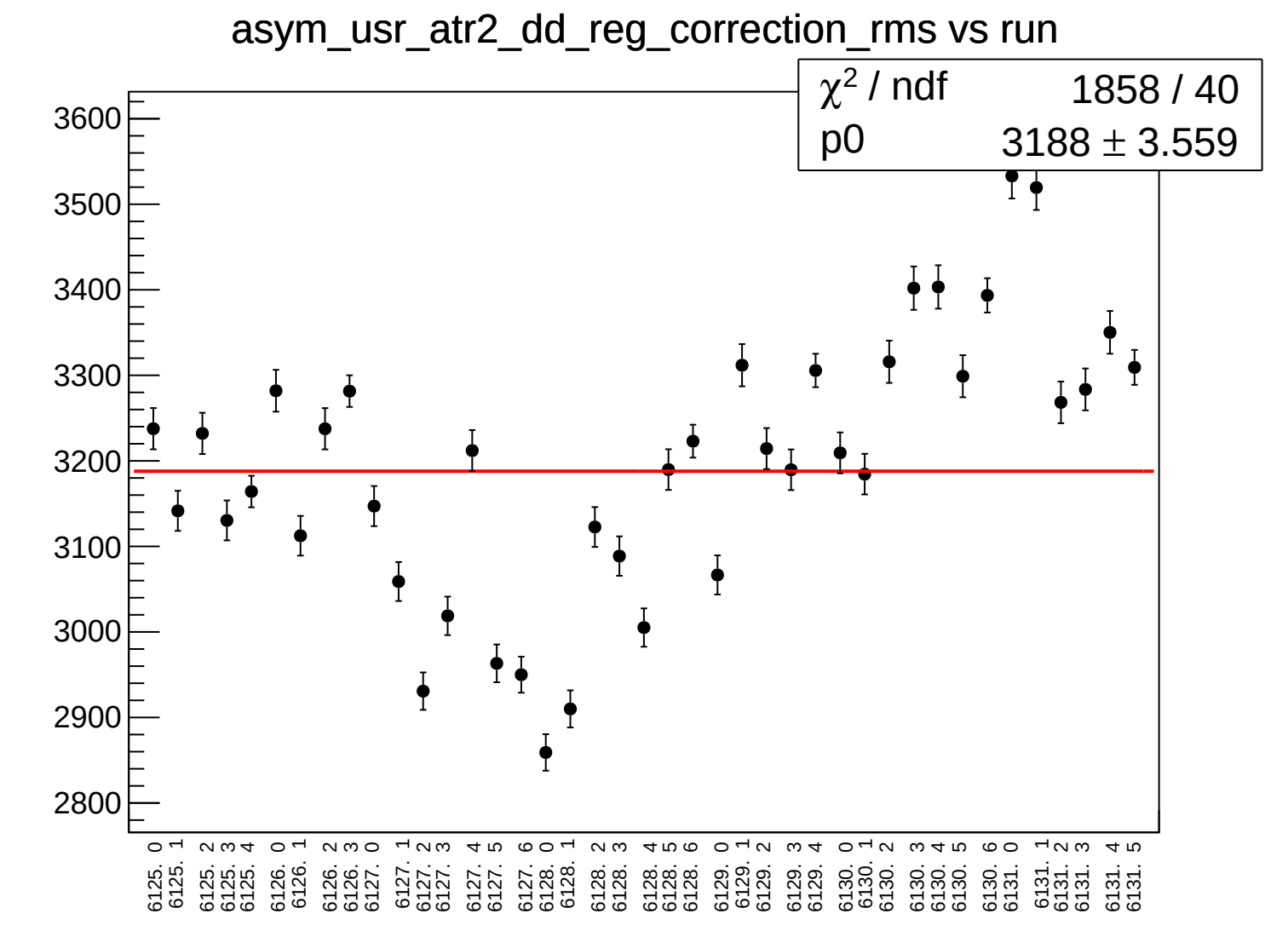

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.457e+05 / 40
p0 1.244e−10 ± 1.838e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

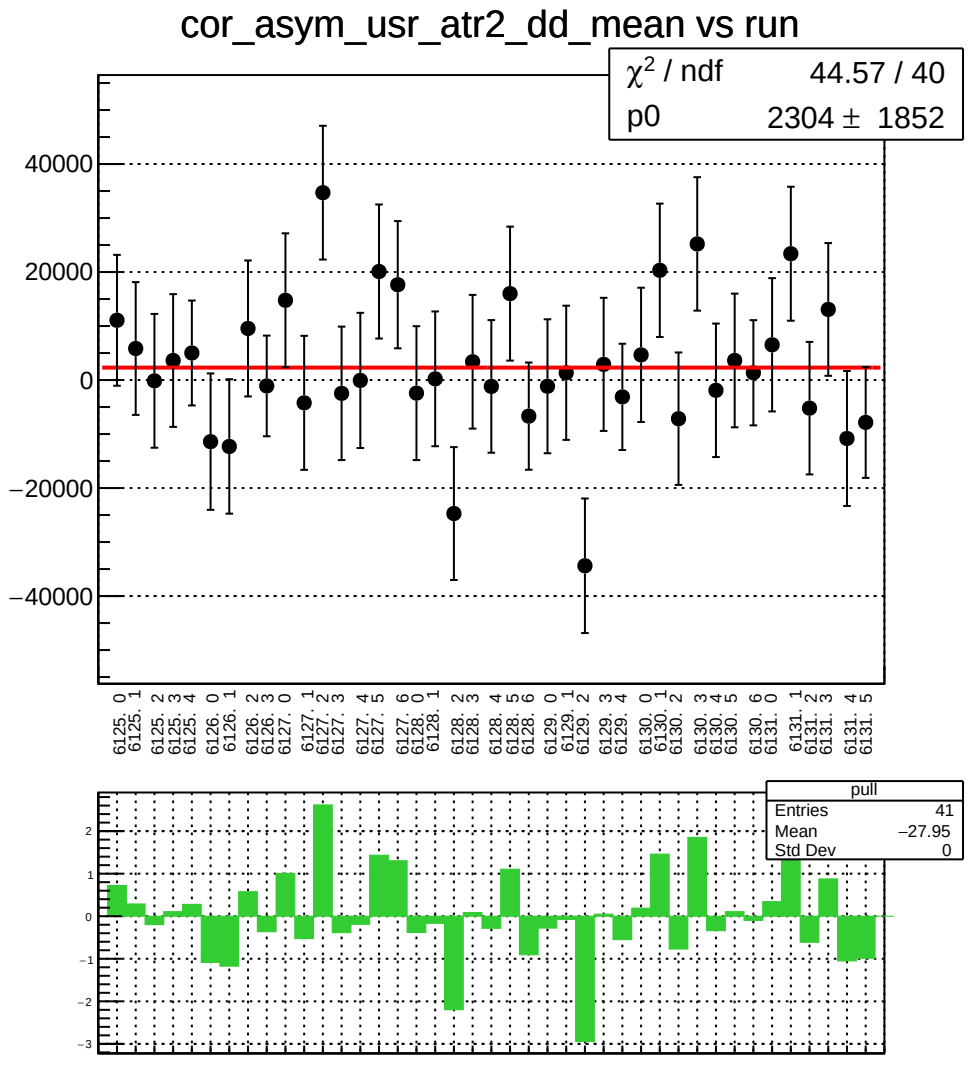

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 44.57 / 40
p0 2304 ± 1852
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −27.96
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.01293
Std Dev 1.043
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

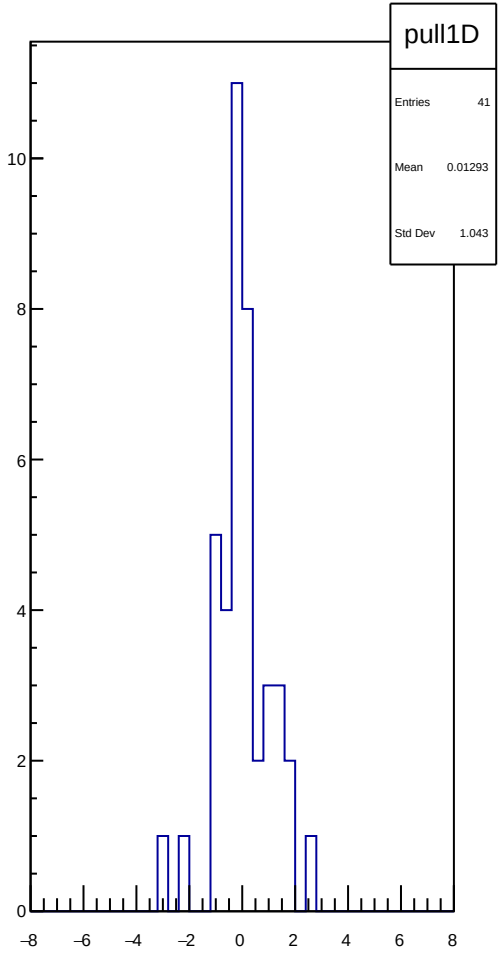

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 39.89 / 40
p0 1174 ± 1.31
1210
1200
1190
1180
1170
1160
1150
1140
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

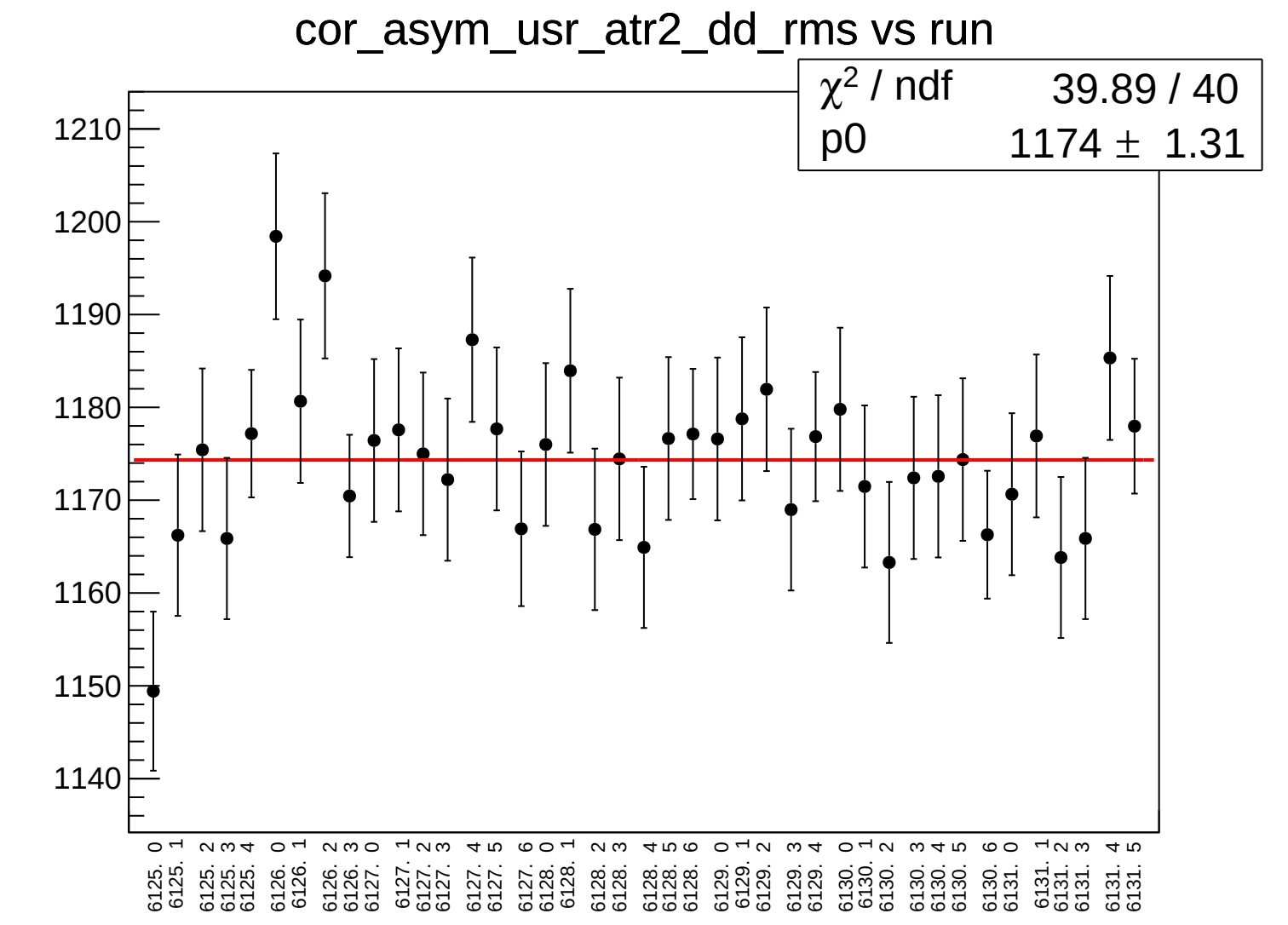

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 29.8 / 40
p0 −1876 ± 5033
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 171.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

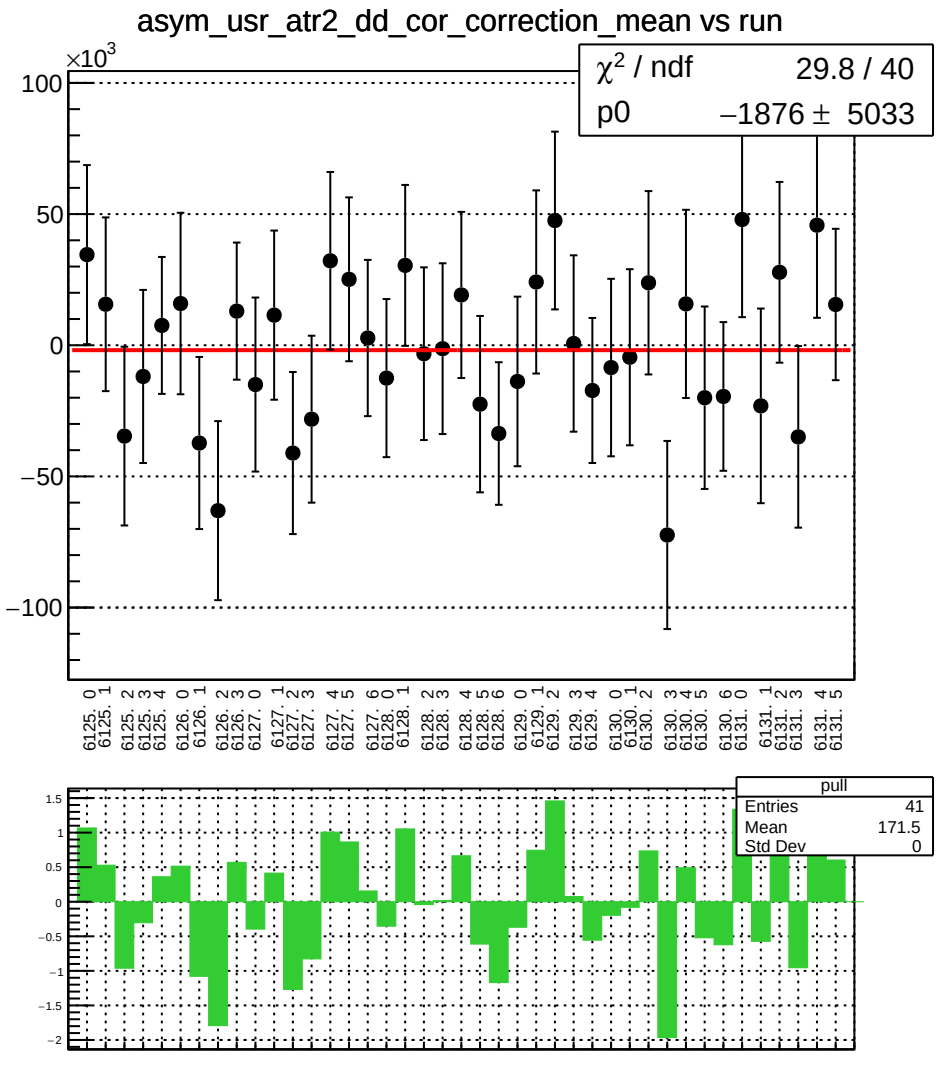

pull1D
Entries 41
Mean 0.005721
Std Dev 0.8525
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

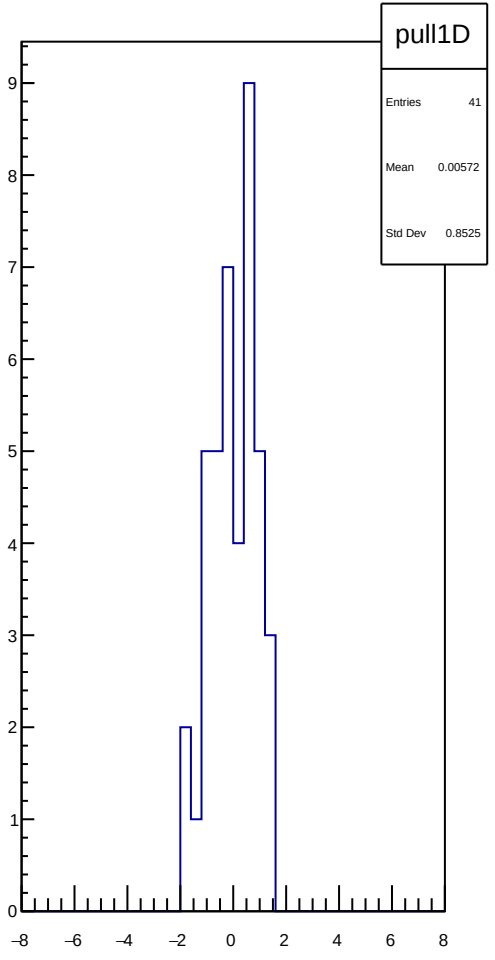

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 1858 / 40
p0 3188 ± 3.559
3600
3500
3400
3300
3200
3100
3000
2900
2800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

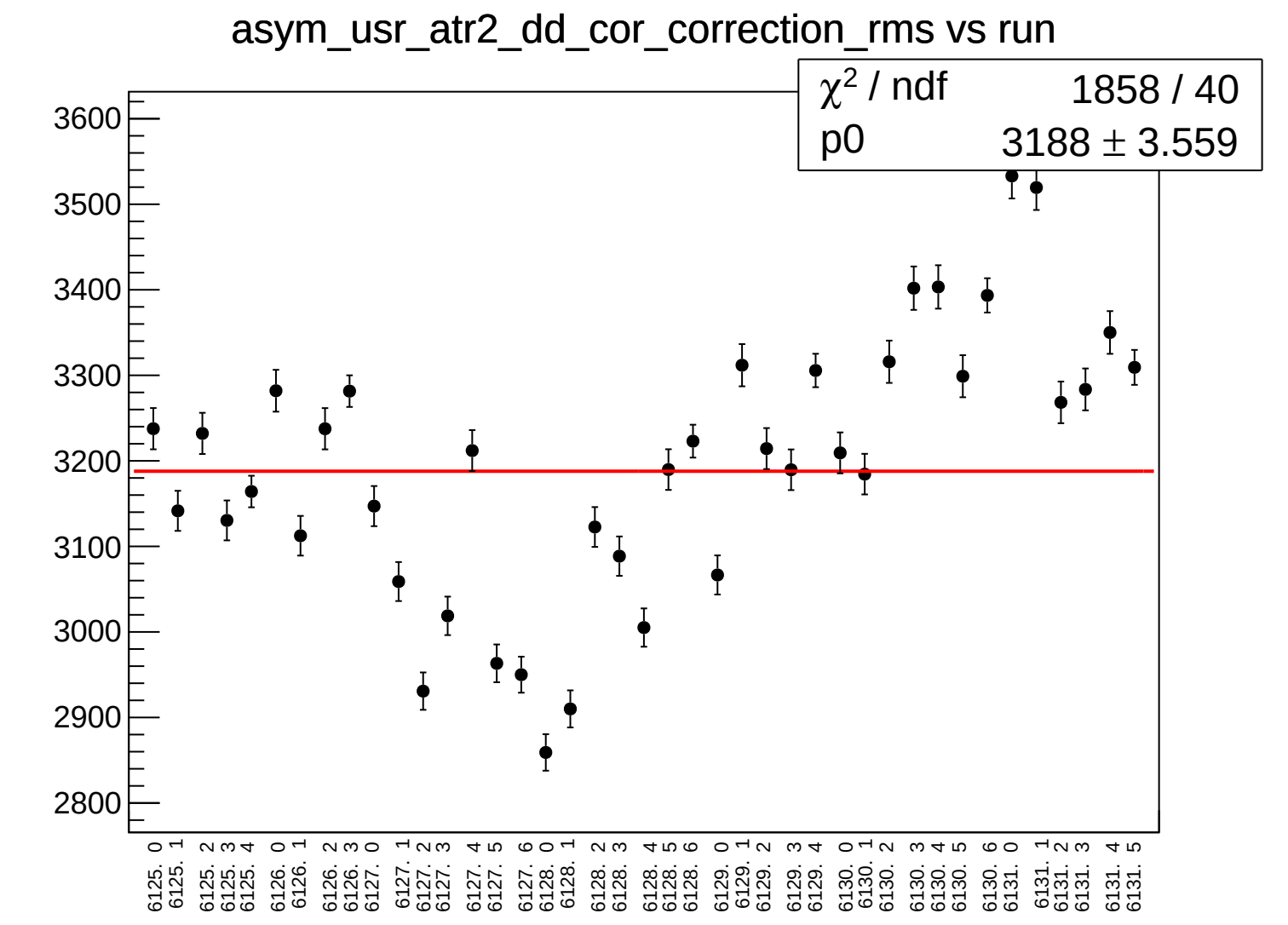

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 44.57 / 40
p0 2304 ± 1852
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −27.95
Std Dev 0
2
1
0
−1
−2
−3

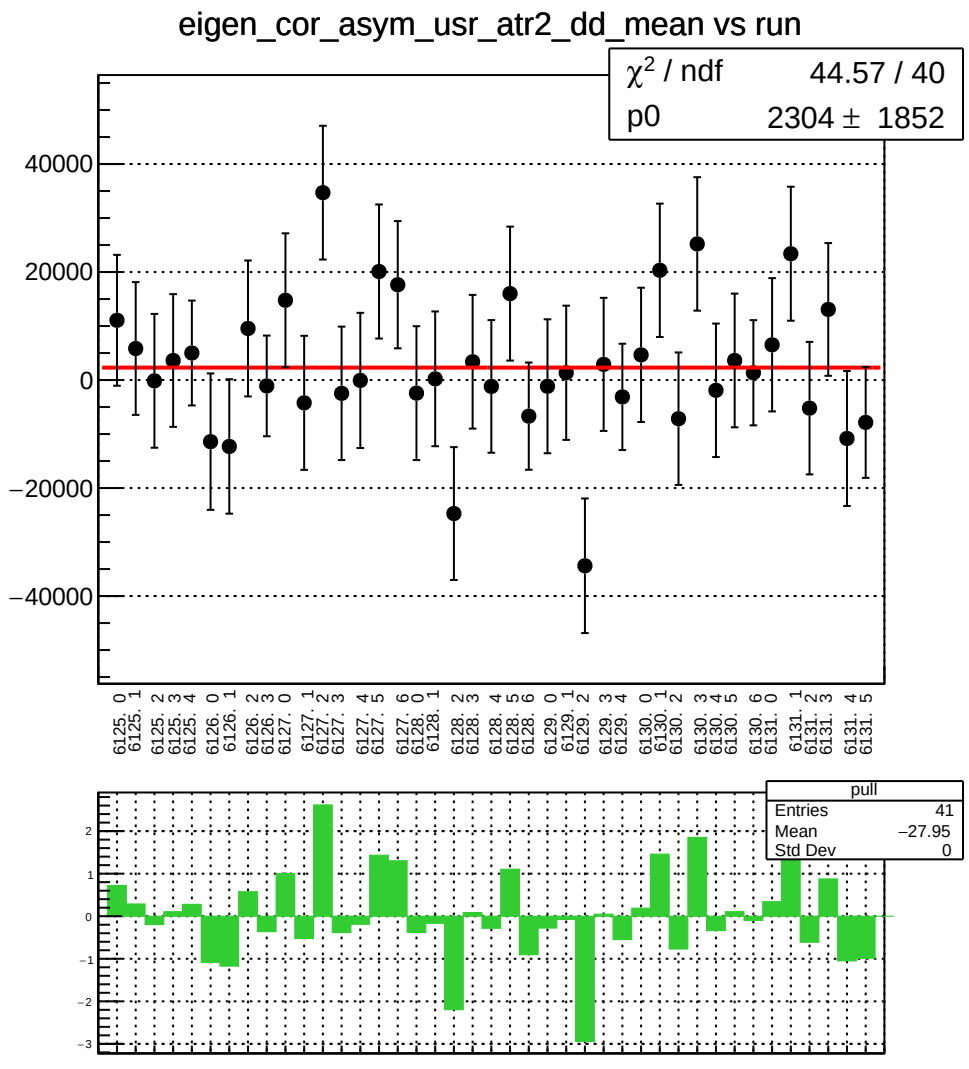

pull1D
Entries 41
Mean 0.01293
Std Dev 1.043
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

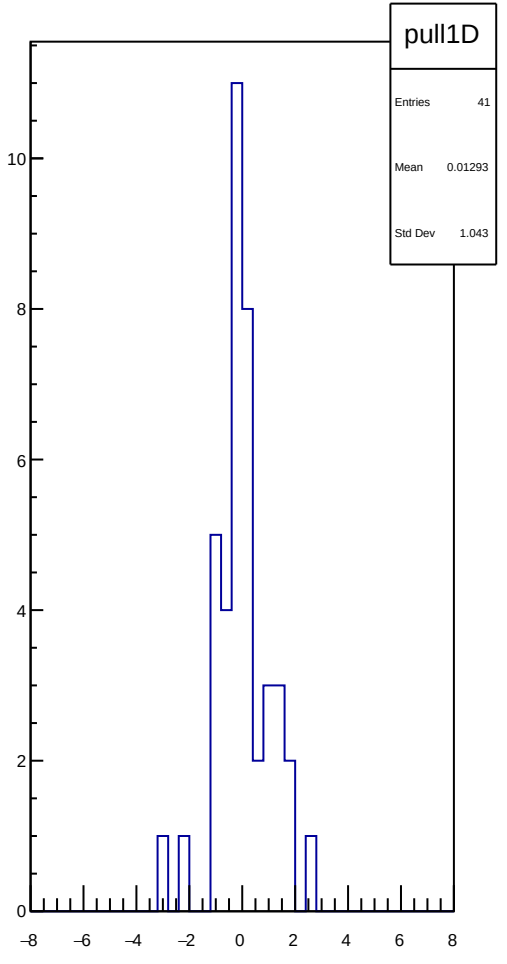

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 39.89 / 40
p0 1174 ± 1.31
1210
1200
1190
1180
1170
1160
1150
1140
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

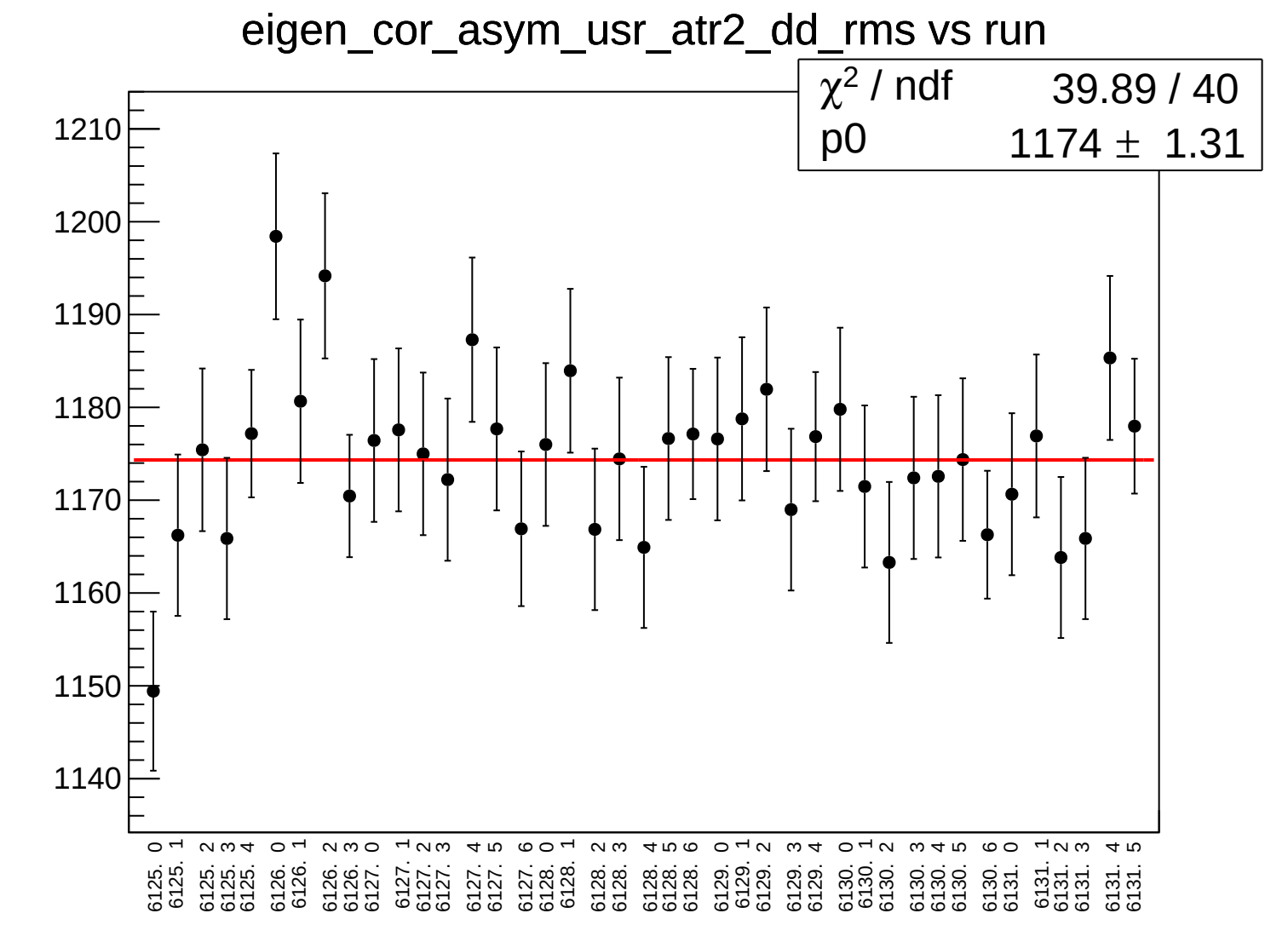

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 29.8 / 40
p0 −1876 ± 5033
pull
Entries 41
Mean 171.5
Std Dev 0

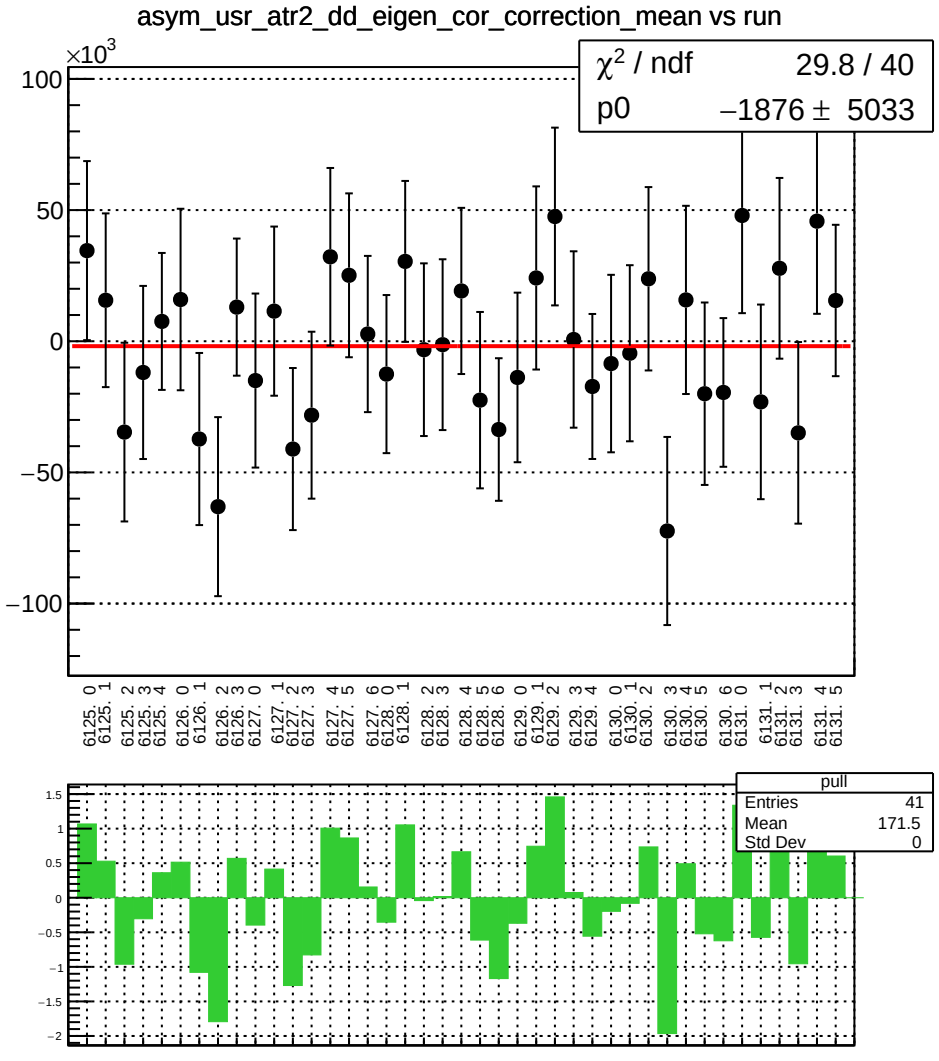

pull1D
Entries 41
Mean 0.00572
Std Dev 0.8525

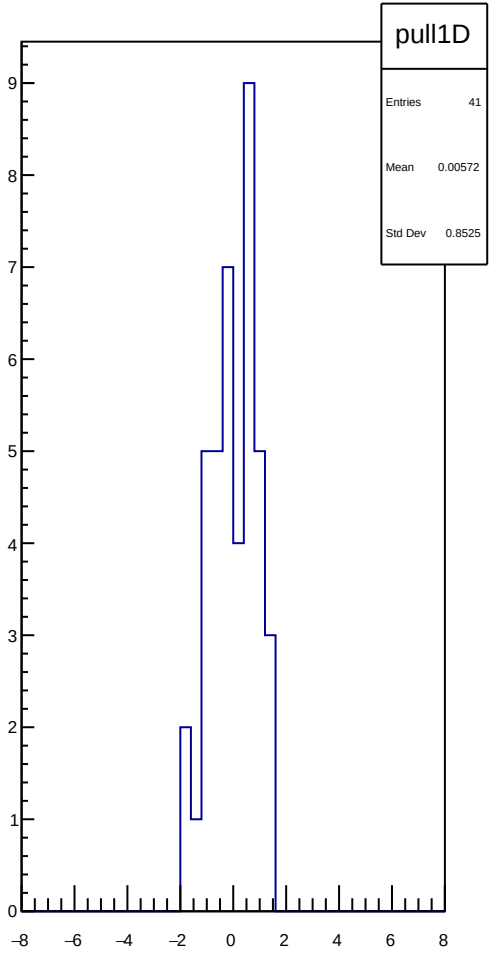

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 1858 / 40
p0 3188 ± 3.559
3600
3500
3400
3300
3200
3100
3000
2900
2800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

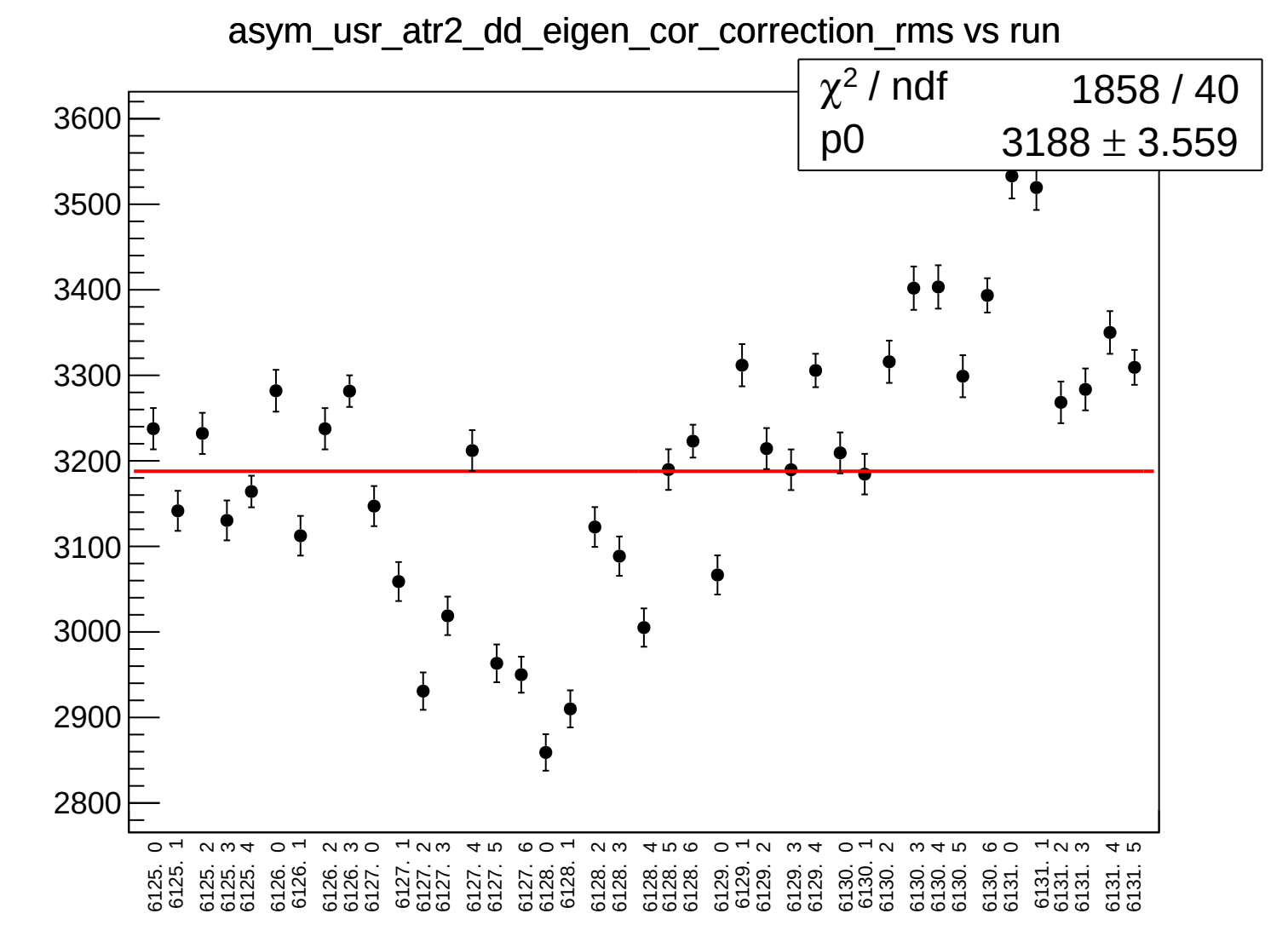

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 44.57 / 40
p0 2304 ± 1852
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −27.95
Std Dev 0
2
1
0
−1
−2
−3

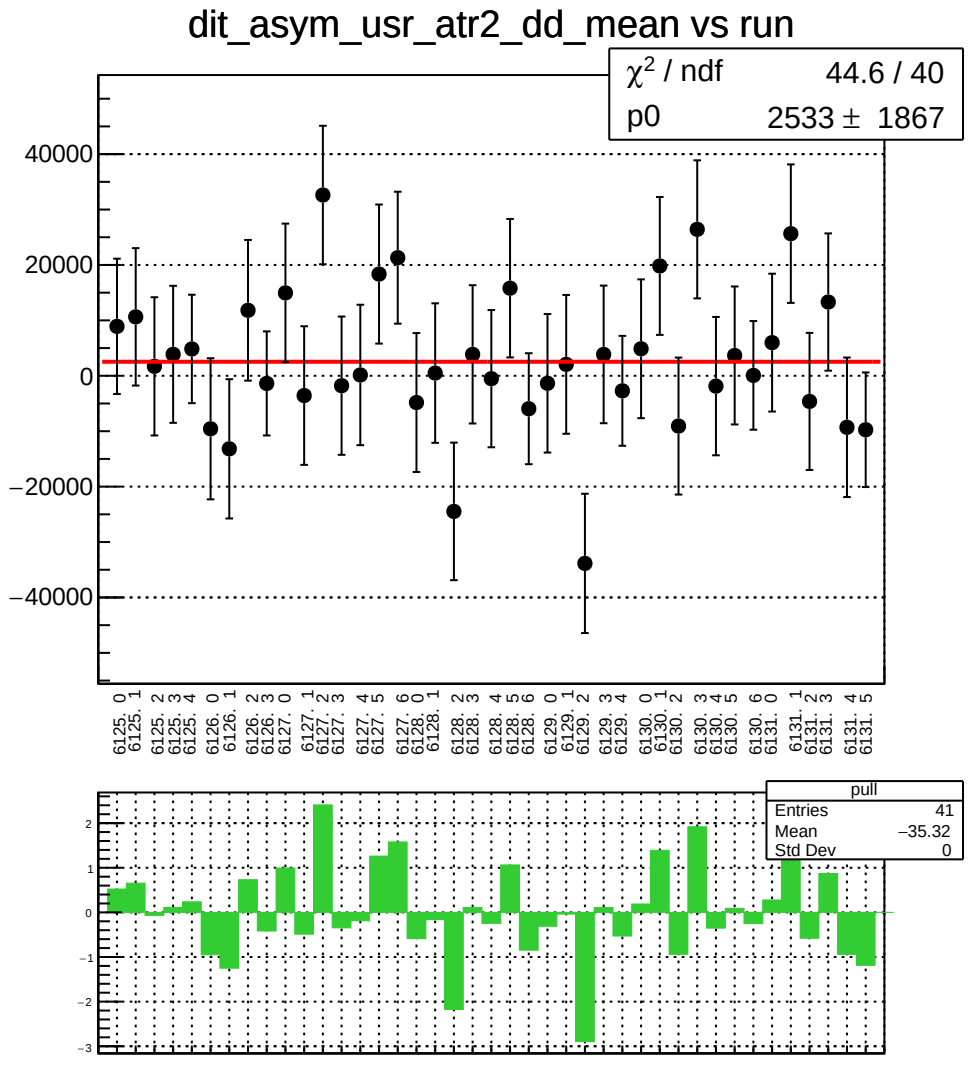

pull1D
Entries 41
Mean 0.01293
Std Dev 1.043
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

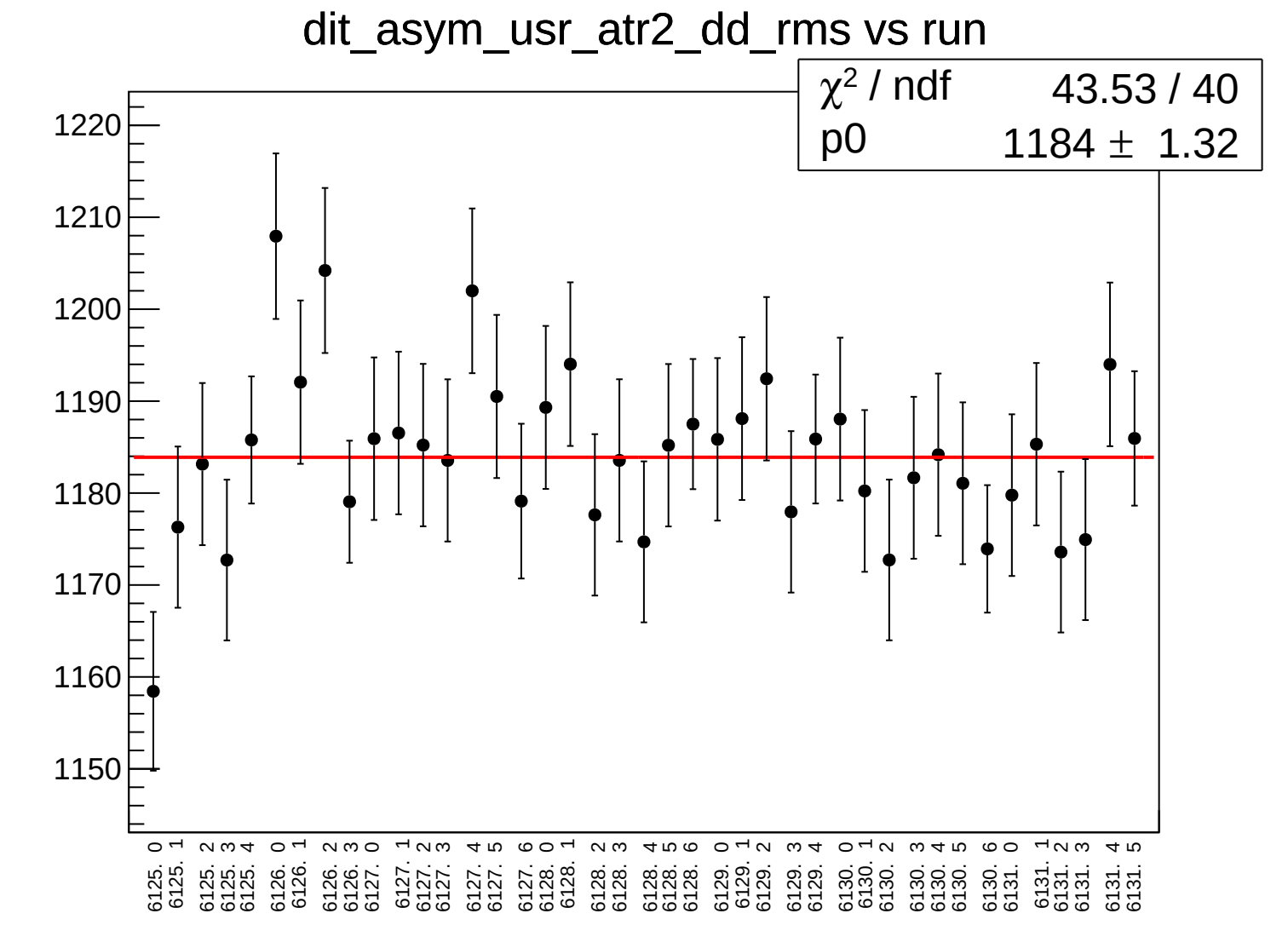

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 39.89 / 40
p0 1174 ± 1.31
1210
1200
1190
1180
1170
1160
1150
1140
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

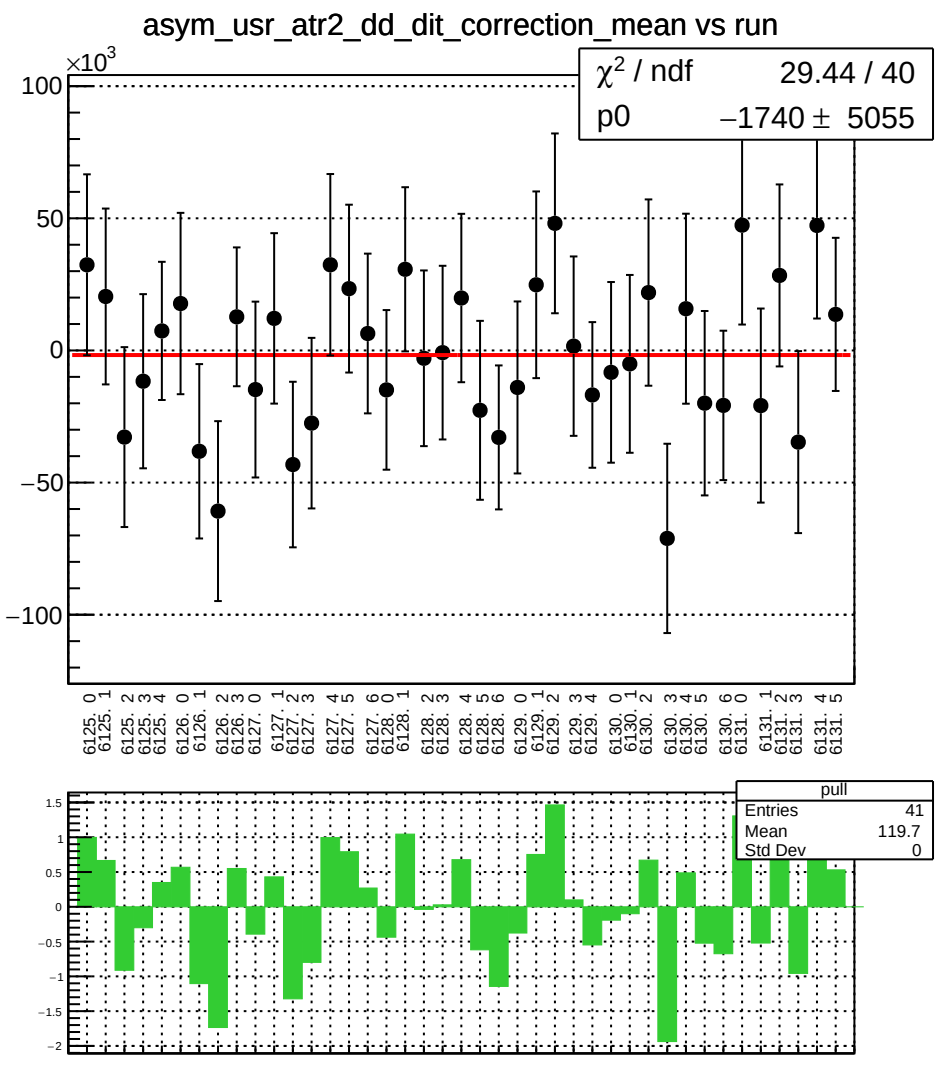

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 29.8 / 40
p0 −1876 ± 5033
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 171.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

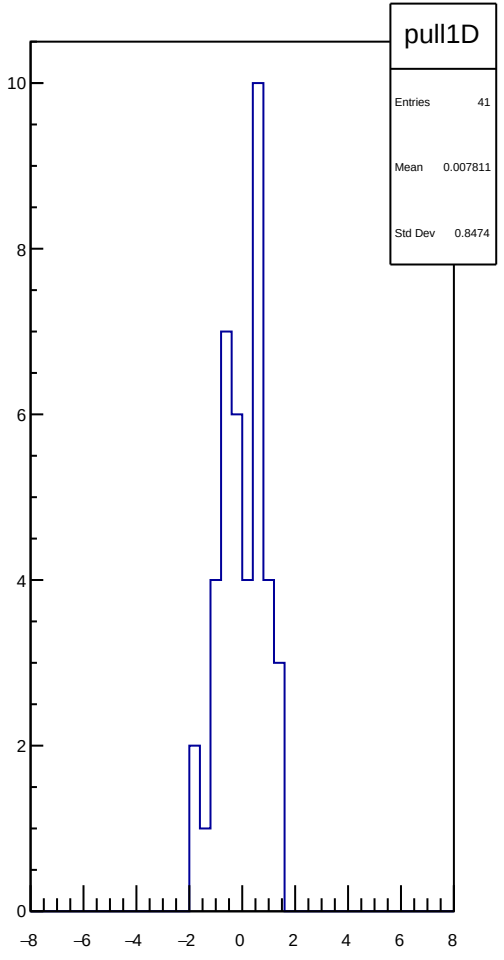

pull1D
Entries 41
Mean 0.00572
Std Dev 0.8525
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

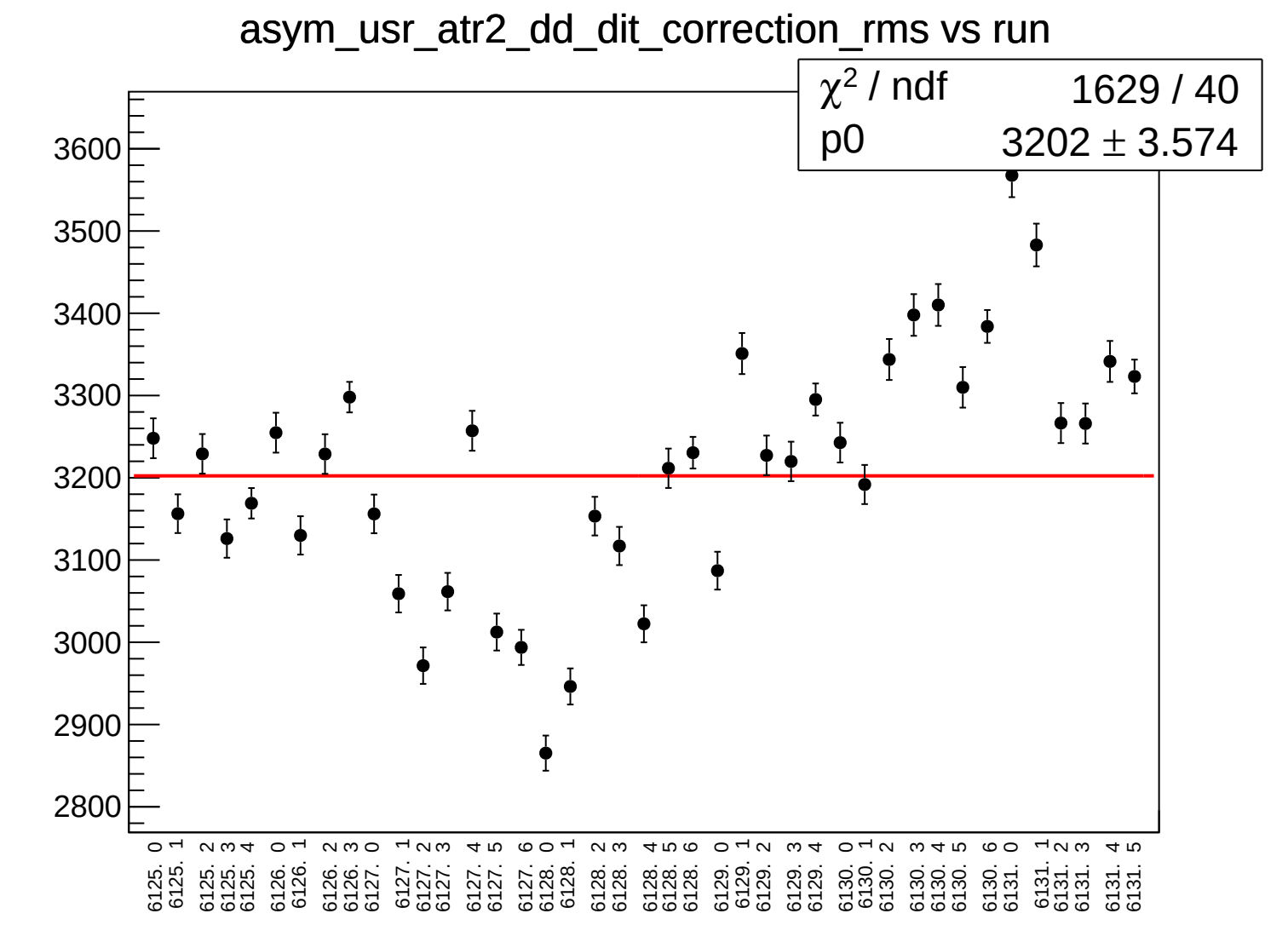

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1858 / 40
p0 3188 ± 3.559
3600
3500
3400
3300
3200
3100
3000
2900
2800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

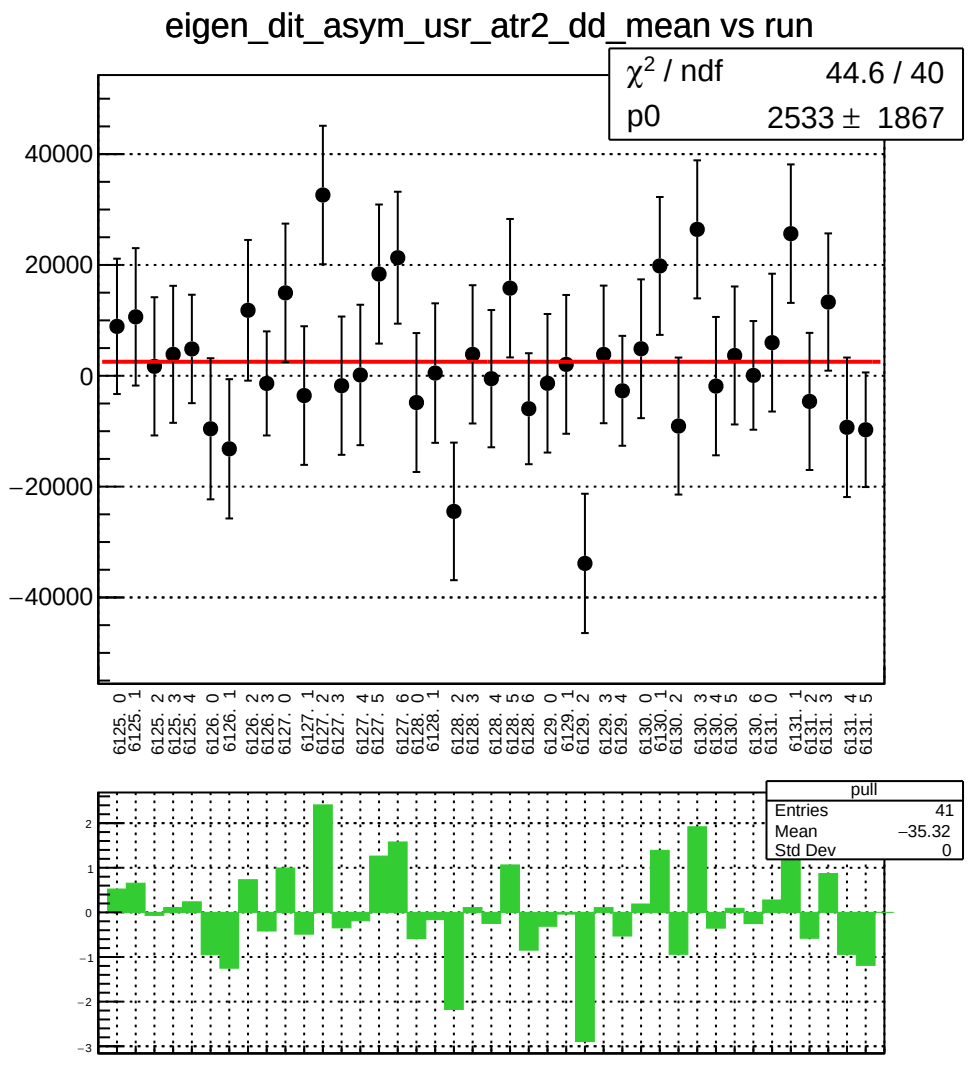

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 44.6 / 40
p0 2533 ± 1867
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −35.32
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.01493
Std Dev 1.043
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

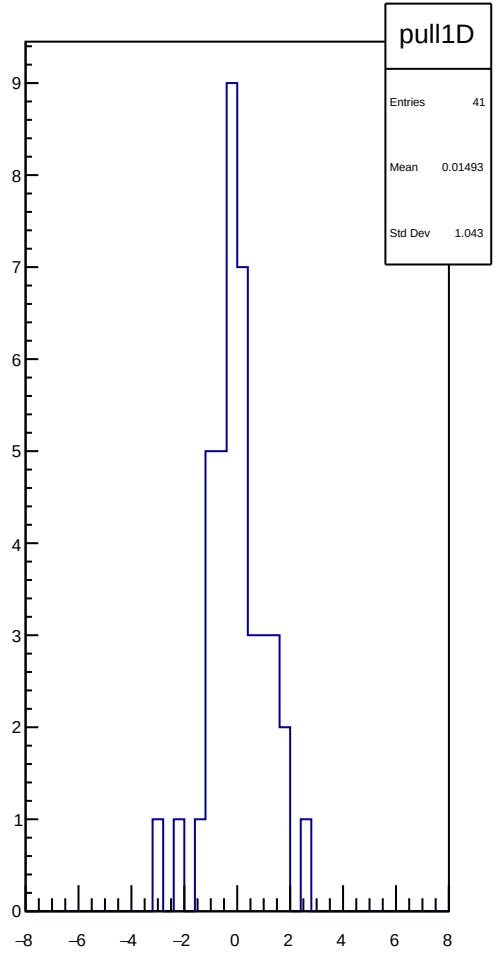

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 43.53 / 40
p0 1184 ± 1.32
1220
1210
1200
1190
1180
1170
1160
1150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

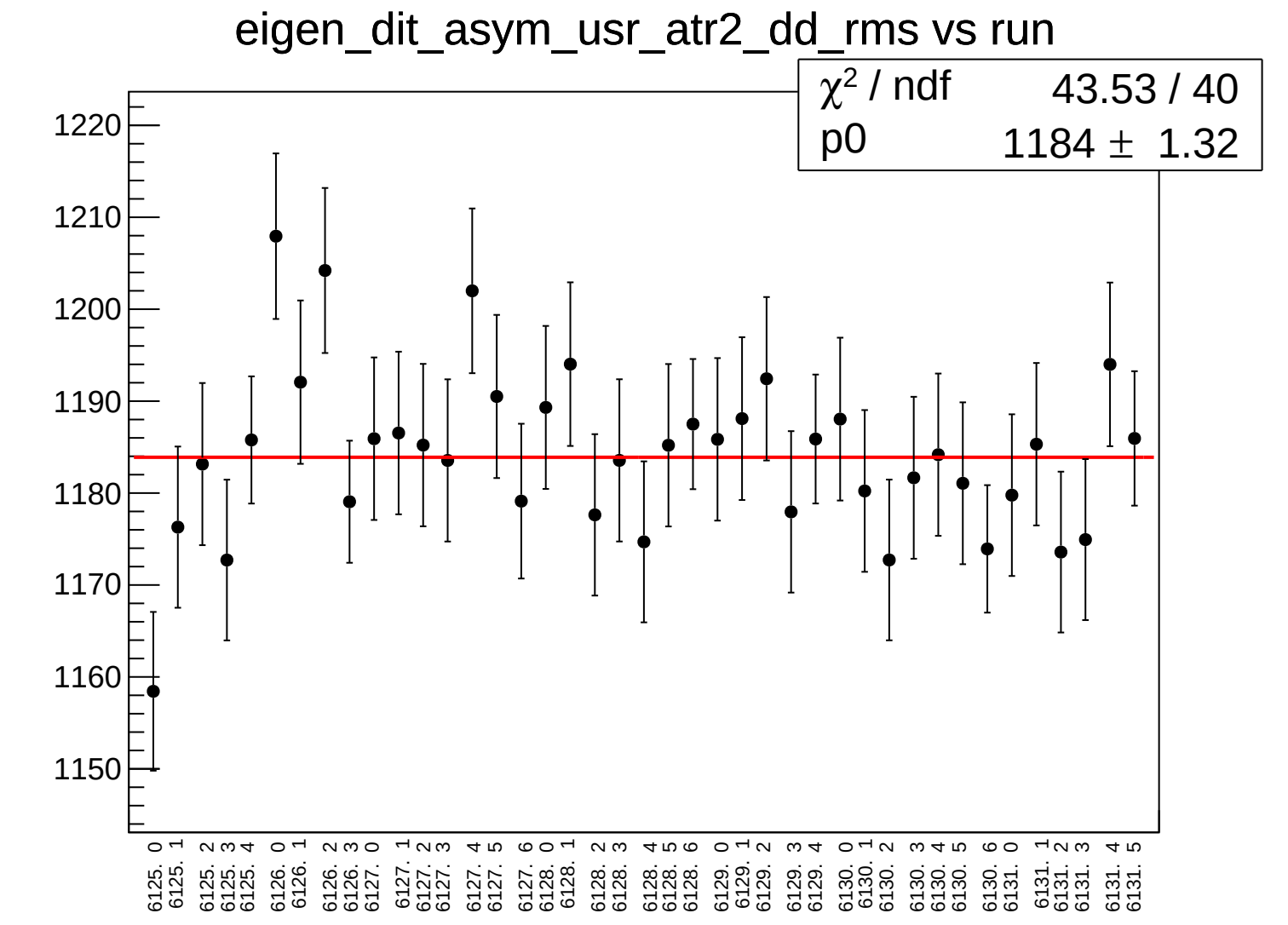

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 29.44 / 40
p0 −1740 ± 5055
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 119.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

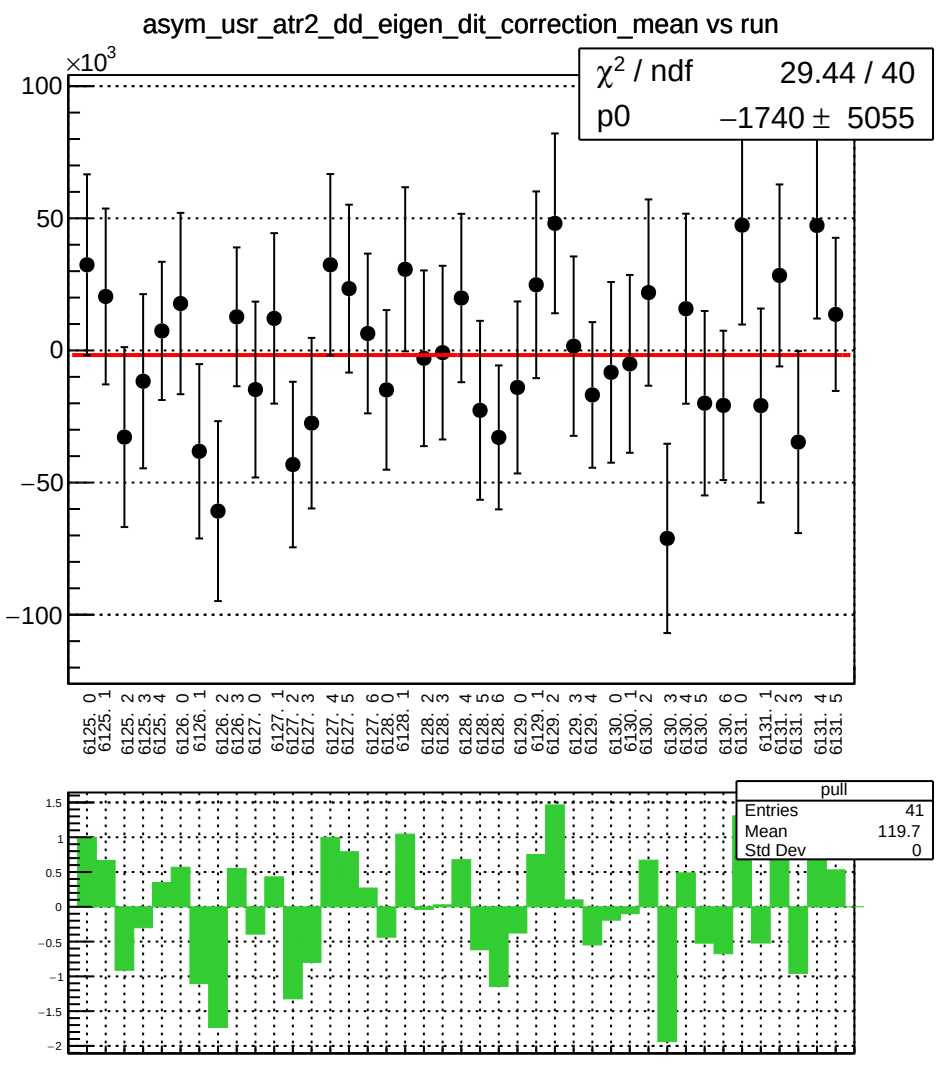

pull1D
Entries 41
Mean 0.007811
Std Dev 0.8474
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

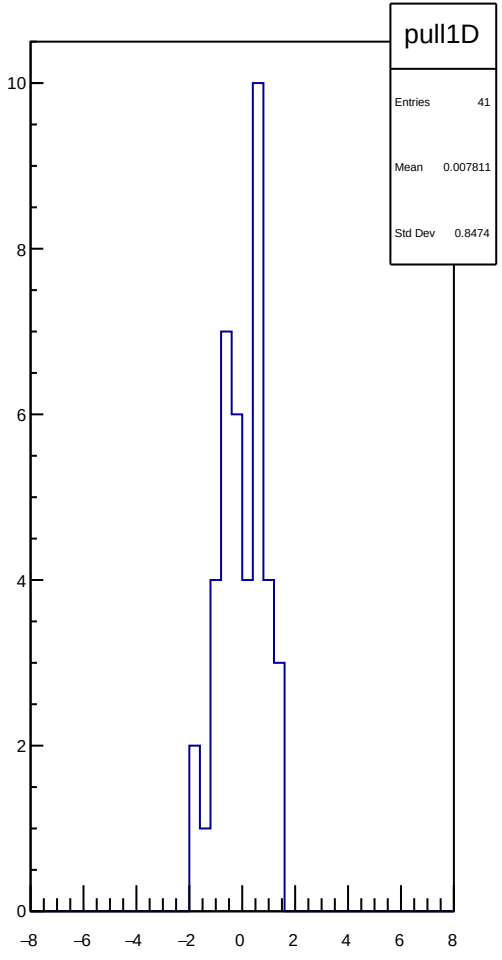

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 1629 / 40
p0 3202 ± 3.574
3600
3500
3400
3300
3200
3100
3000
2900
2800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

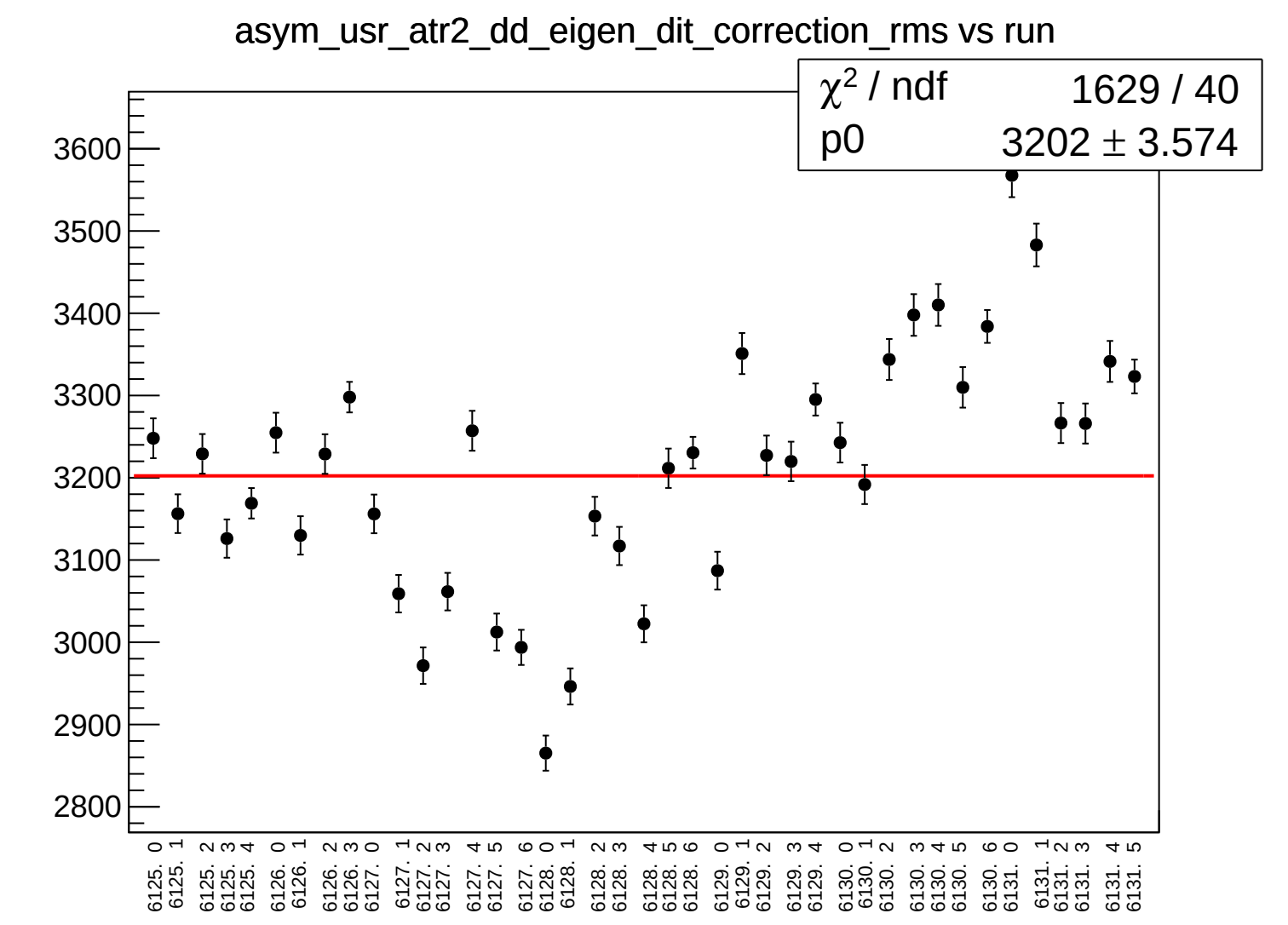

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 44.6 / 40
p0 2533 ± 1867
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −35.32
Std Dev 0
2
1
0
−1
−2
−3

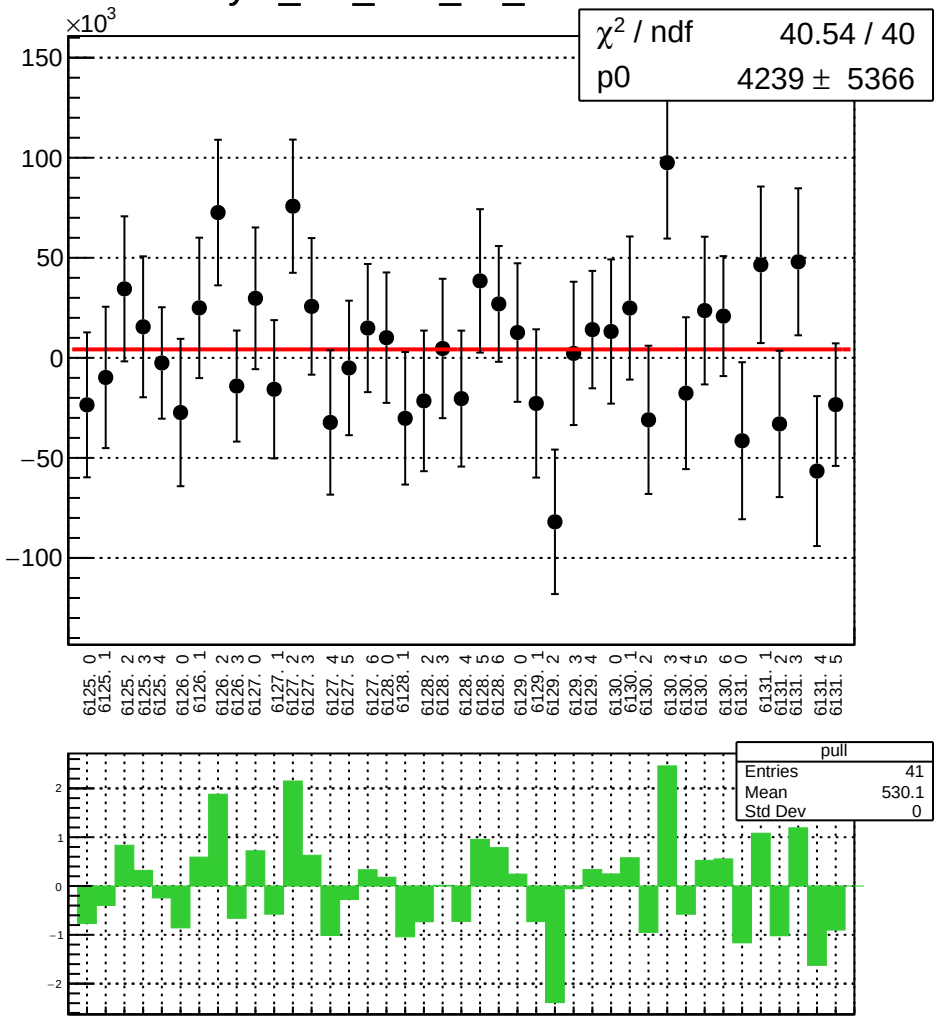

pull1D
Entries 41
Mean 0.01493
Std Dev 1.043
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

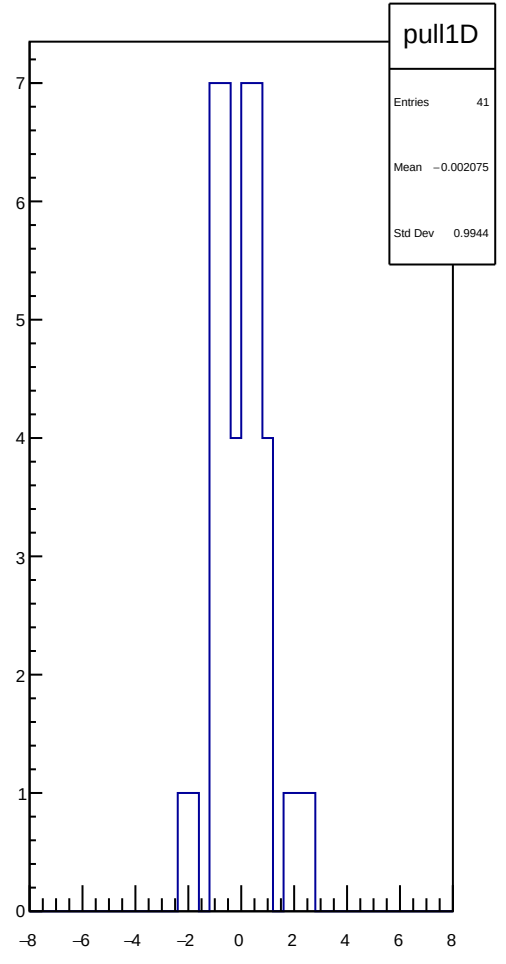

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 43.53 / 40
p0 1184 ± 1.32
1220
1210
1200
1190
1180
1170
1160
1150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

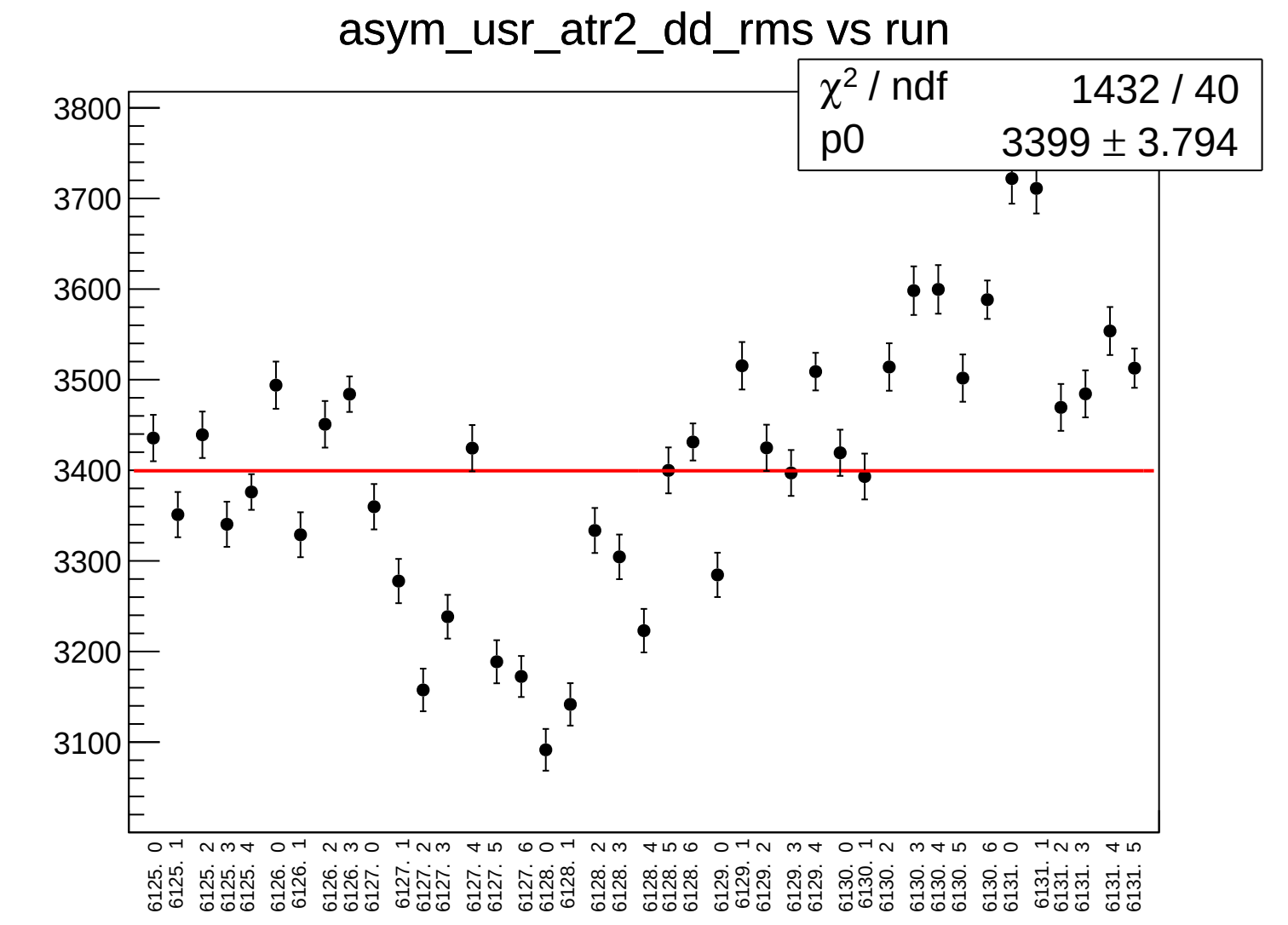

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 29.44 / 40
p0 −1740 ± 5055
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 119.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

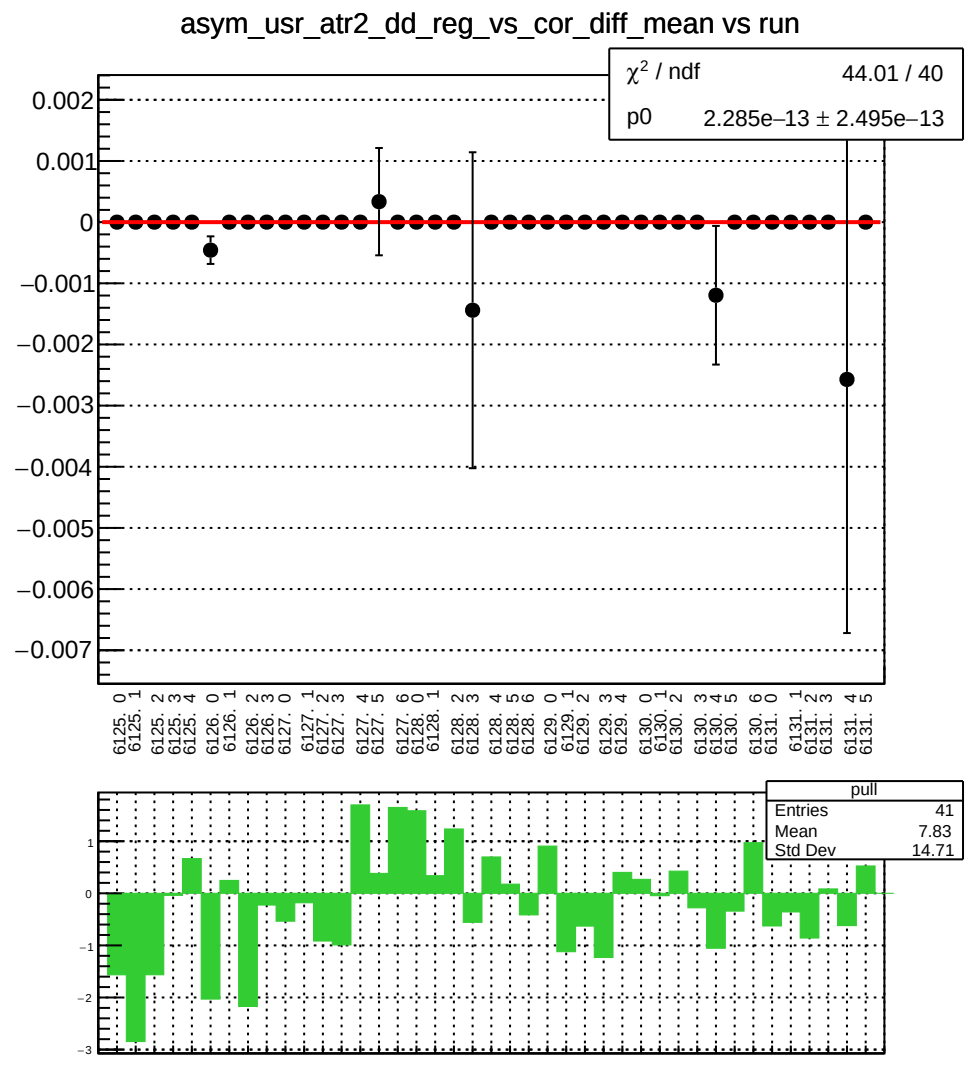

pull1D
Entries 41
Mean 0.007811
Std Dev 0.8474
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

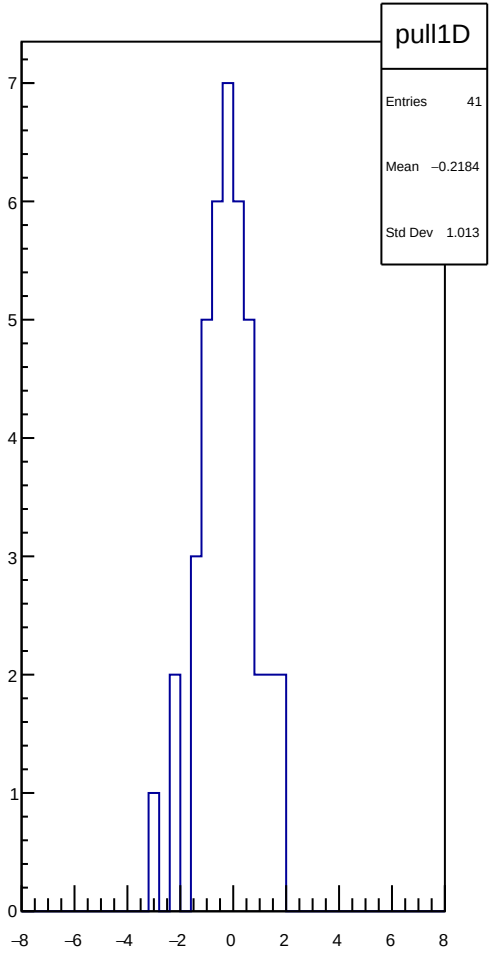

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1629 / 40
p0 3202 ± 3.574
3600
3500
3400
3300
3200
3100
3000
2900
2800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

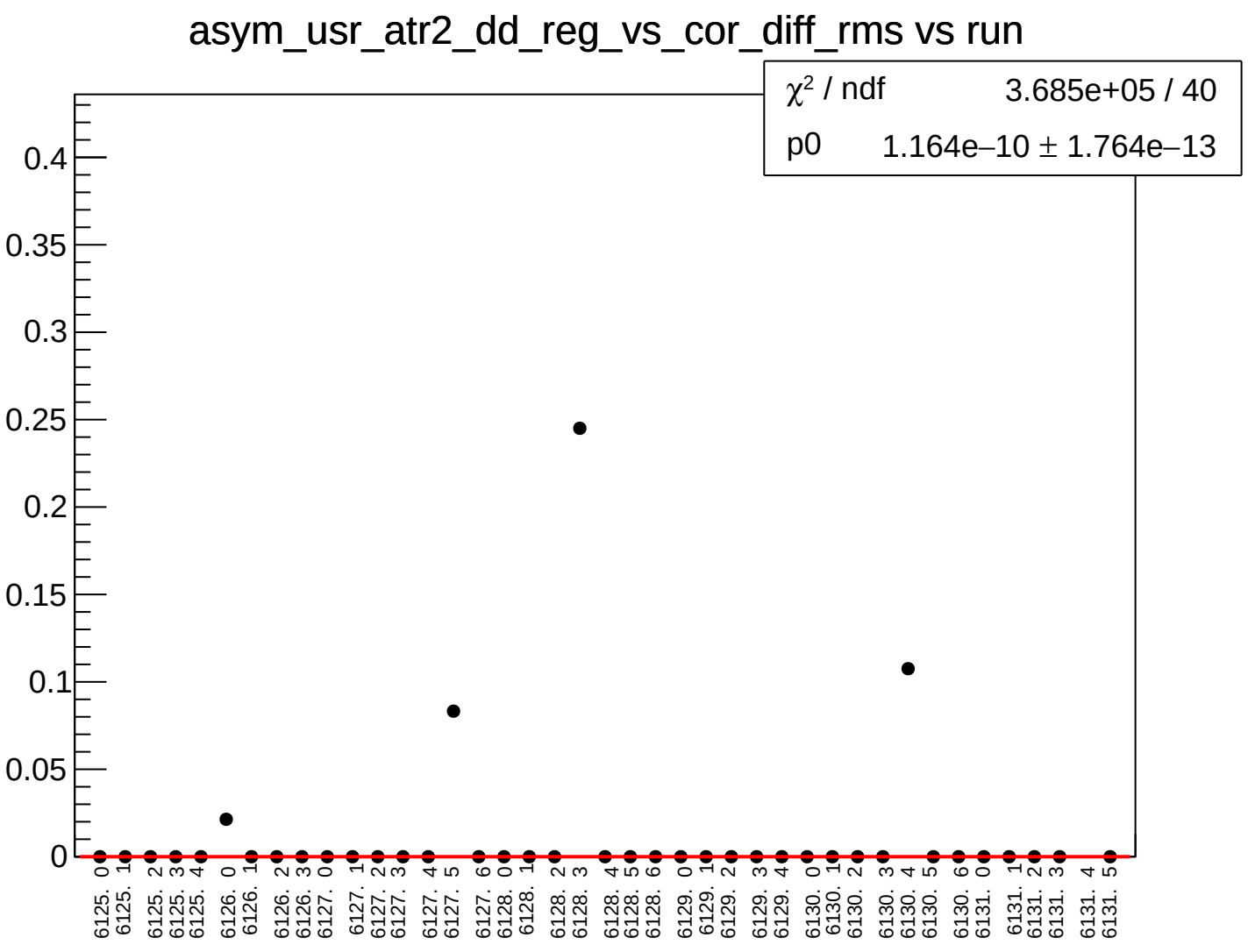

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 40.54 / 40
p0 4239 ± 5366
150
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 530.1
Std Dev 0
2
1
0
−1
−2

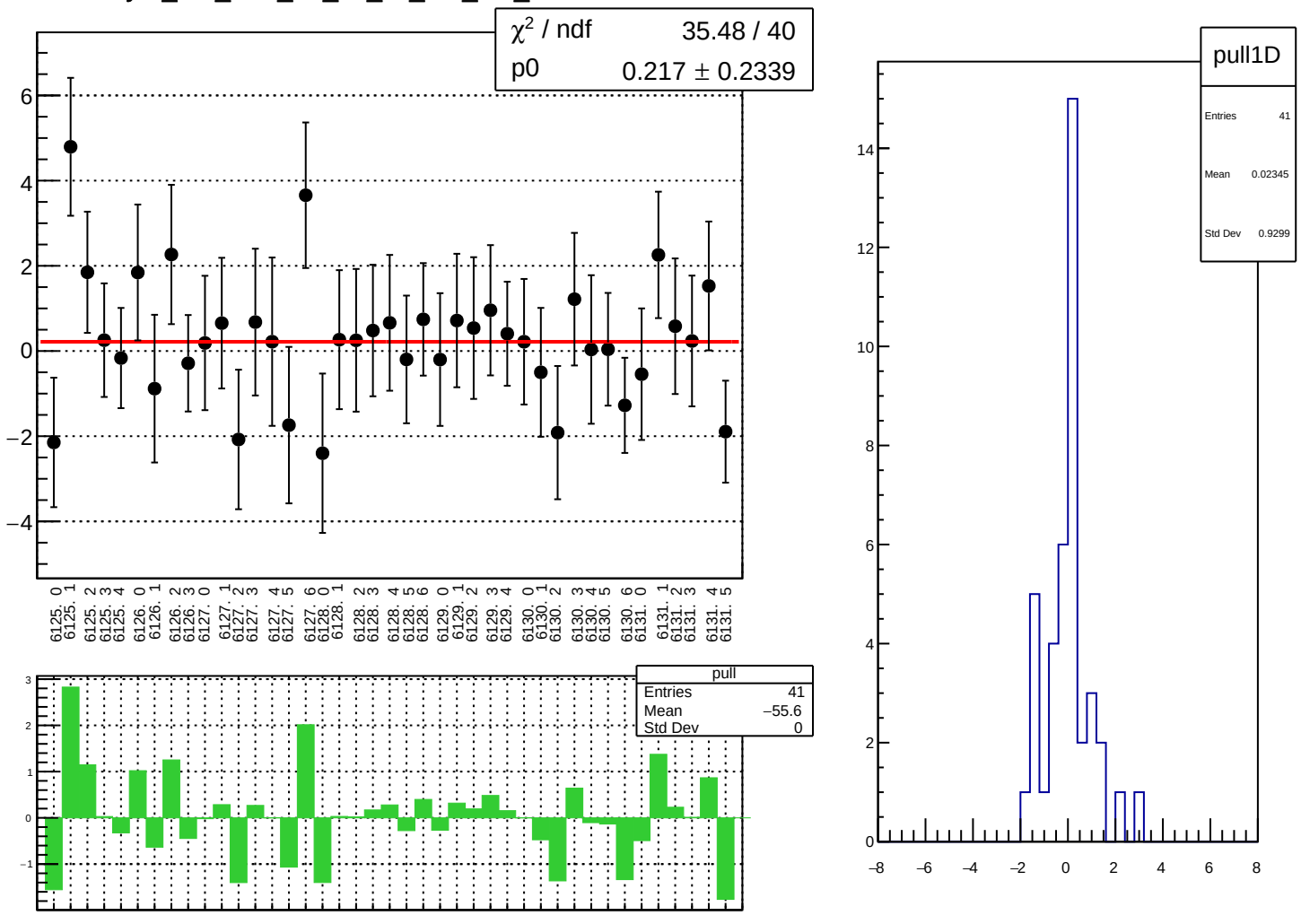

pull1D
Entries 41
Mean −0.002075
Std Dev 0.9944
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

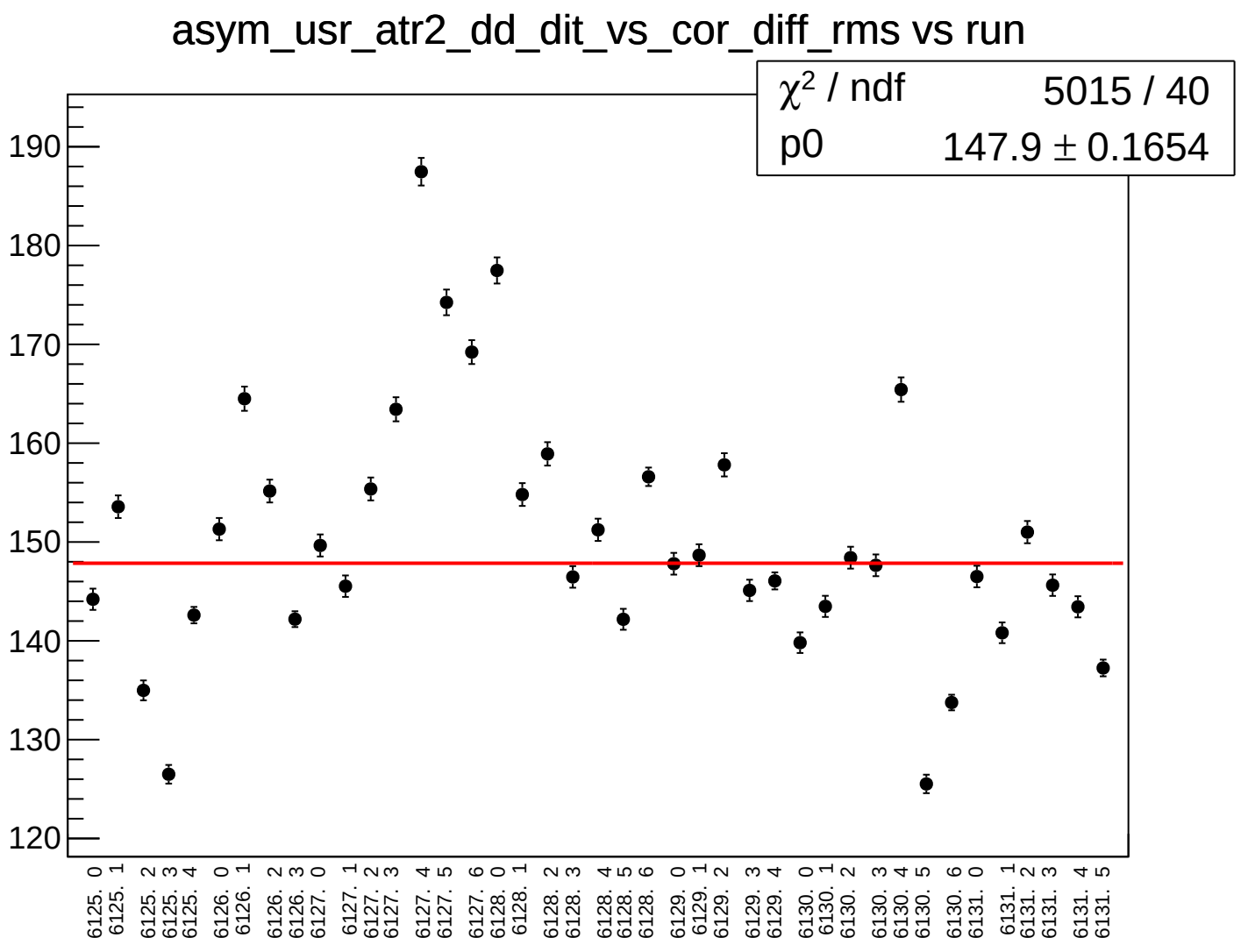

asym_usr_atr2_dd_rms vs run
χ² / ndf 1432 / 40
p0 3399 ± 3.794
3800
3700
3600
3500
3400
3300
3200
3100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

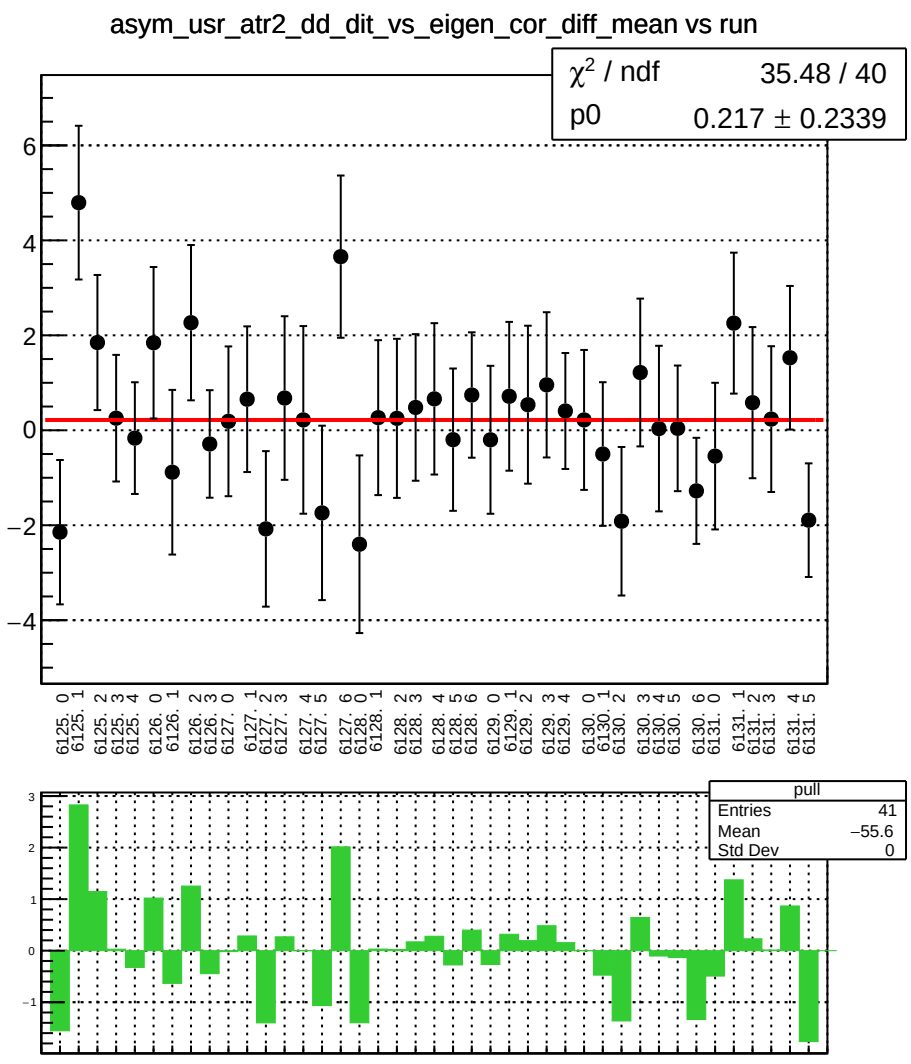

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 44.01 / 40
p0 2.285e−13 ± 2.495e−13
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
−0.005
−0.006
−0.007
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 7.83
Std Dev 14.71
1
0
−1
−2
−3

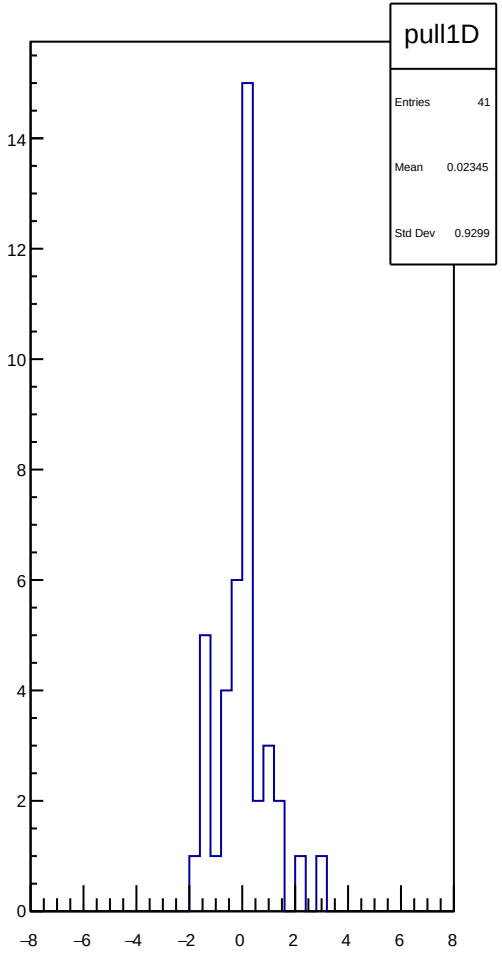

pull1D
Entries 41
Mean −0.2184
Std Dev 1.013
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

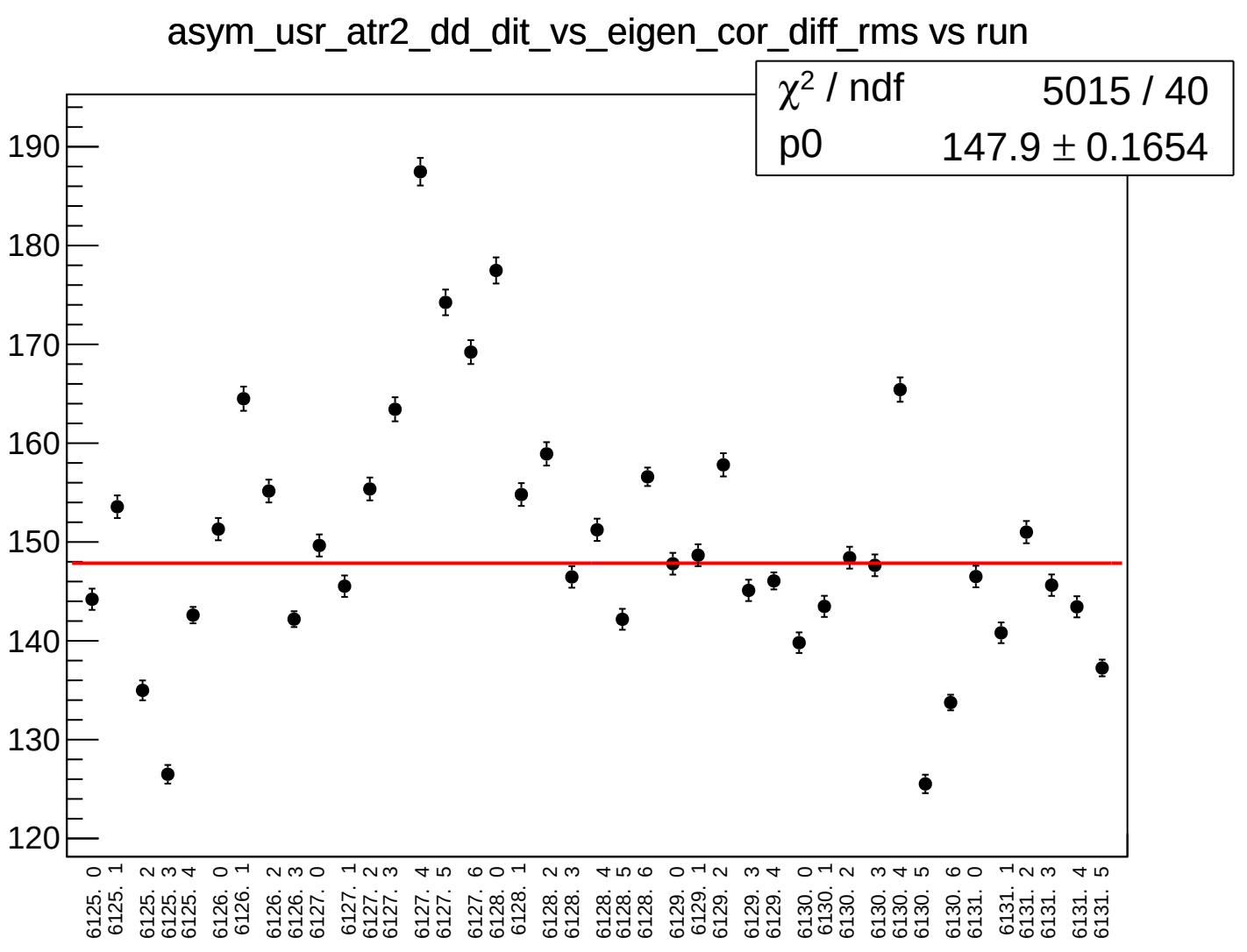

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.685e+05 / 40
p0 1.164e−10 ± 1.764e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

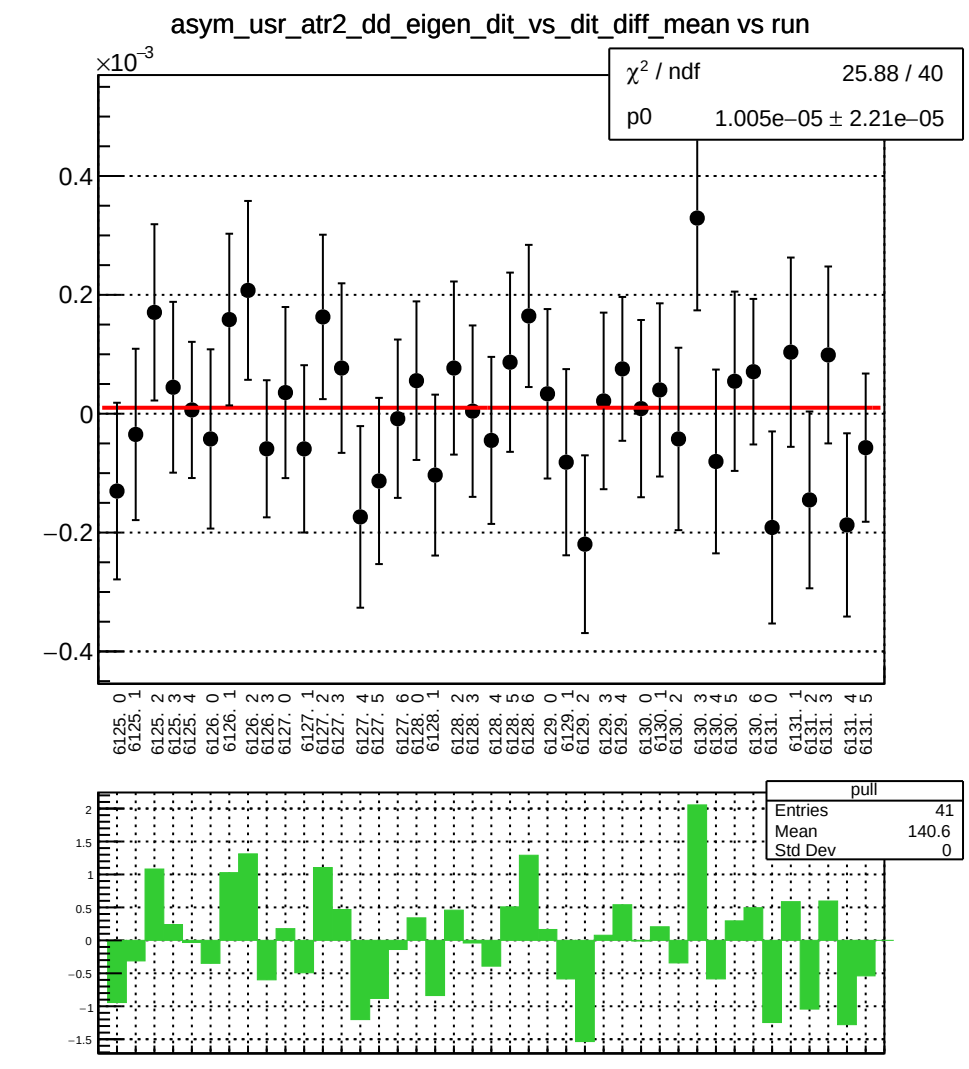

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 35.48 / 40
p0 0.217 ± 0.2339
pull
Entries 41
Mean −55.6
Std Dev 0
pull1D
Entries 41
Mean 0.02345
Std Dev 0.9299

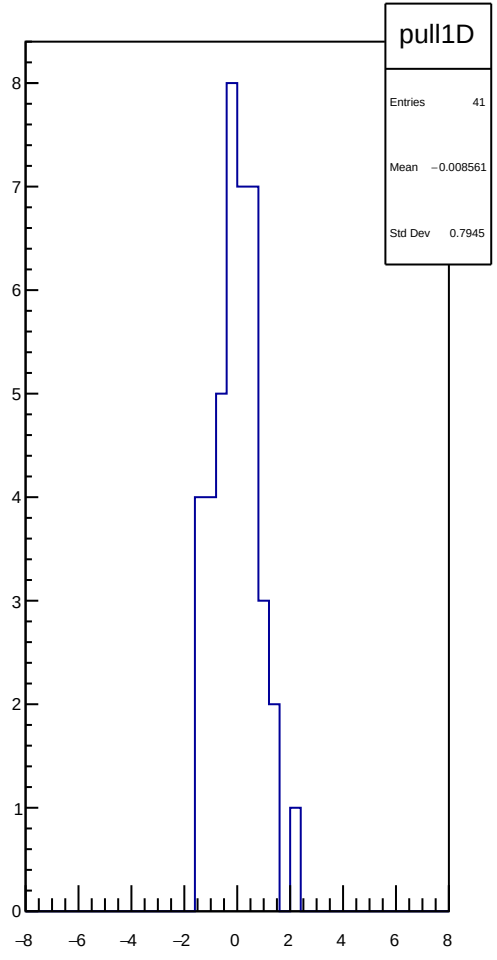

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5015 / 40
p0 147.9 ± 0.1654
190
180
170
160
150
140
130
120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

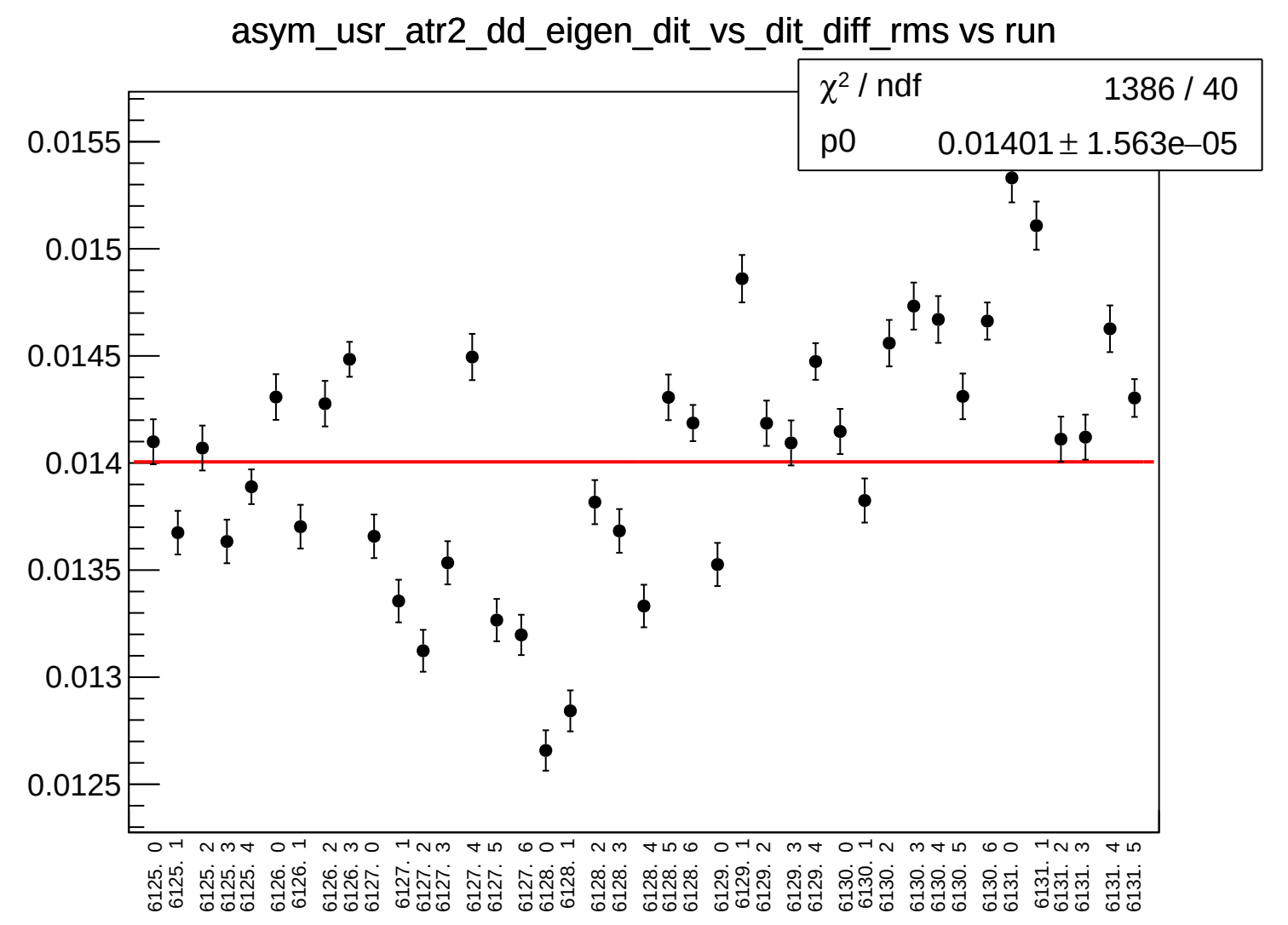

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.48 / 40
p0 0.217 ± 0.2339
6
4
2
0
−2
−4
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −55.6
Std Dev 0
3
2
1
0
−1

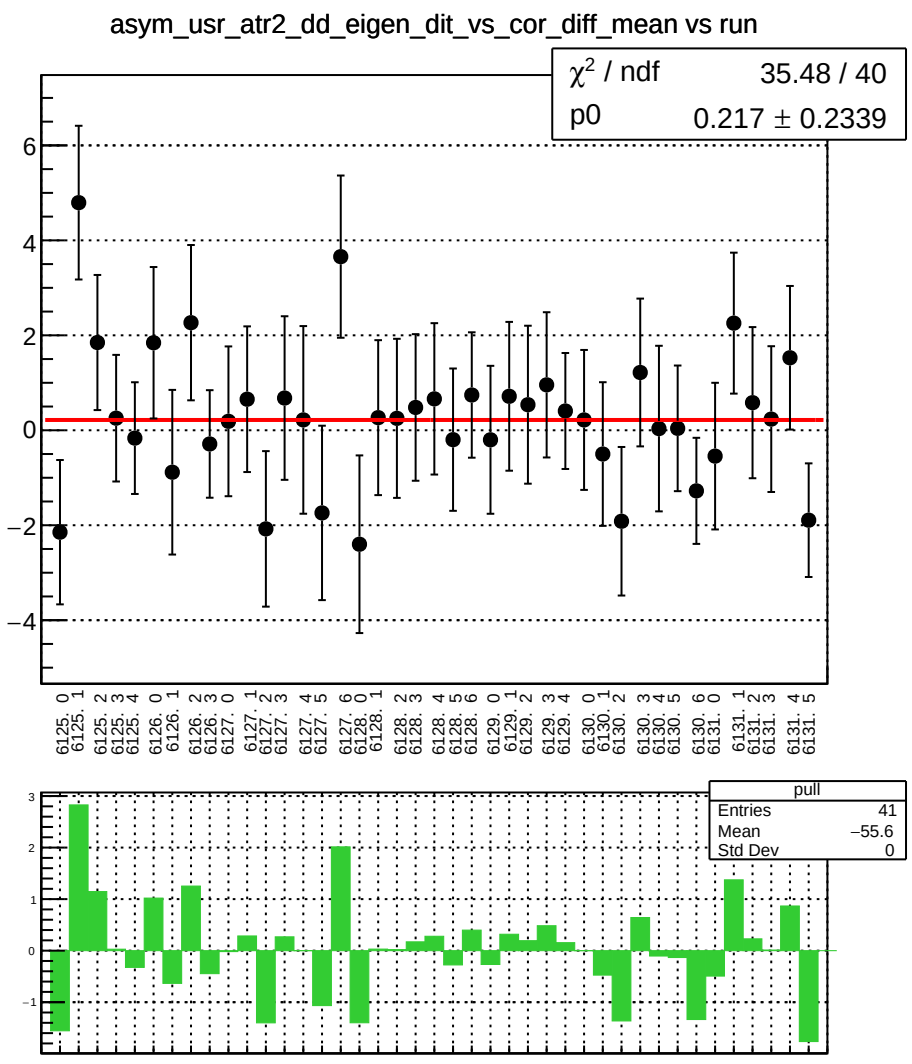

pull1D
Entries 41
Mean 0.02345
Std Dev 0.9299
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

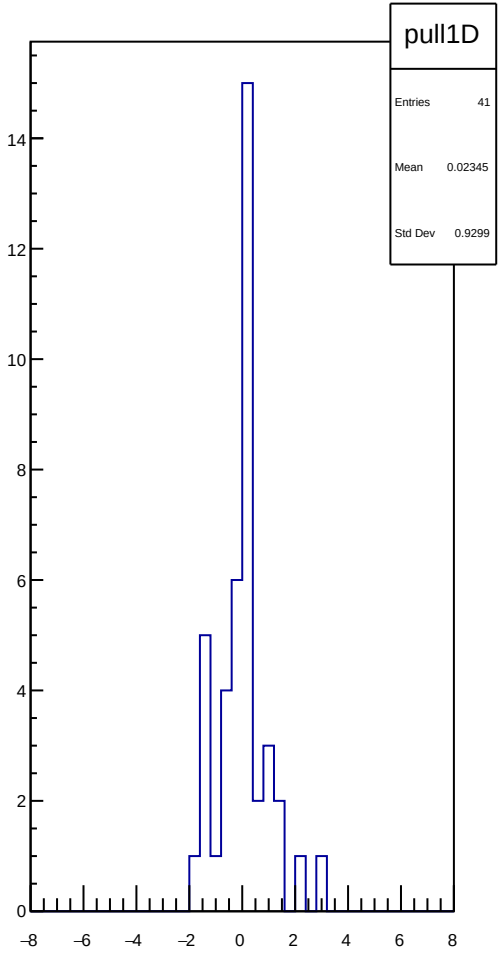

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5015 / 40
p0 147.9 ± 0.1654
190
180
170
160
150
140
130
120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

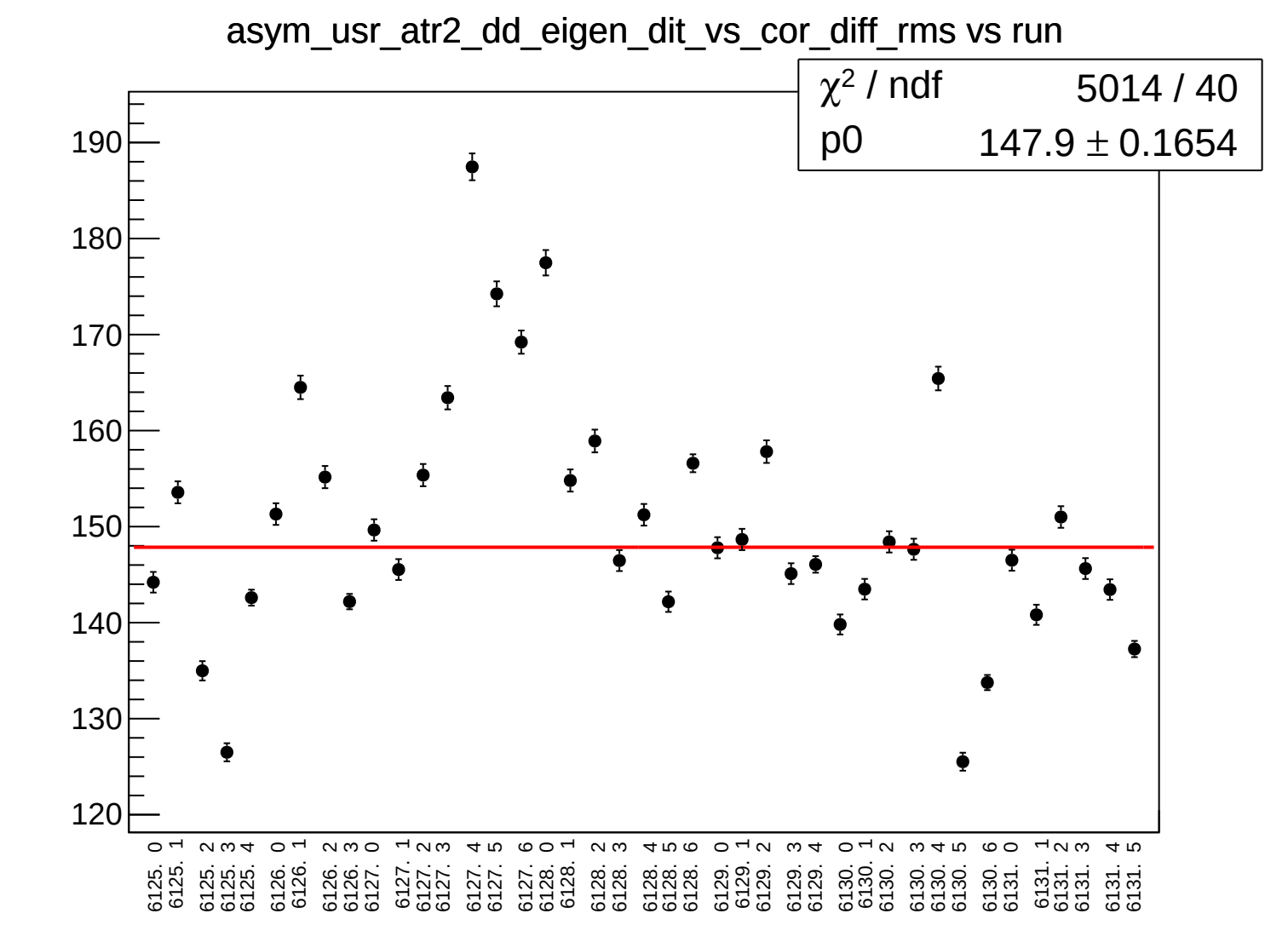

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 25.88 / 40
p0 1.005e−05 ± 2.21e−05
0.4
0.2
0
−0.2
−0.4
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 140.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

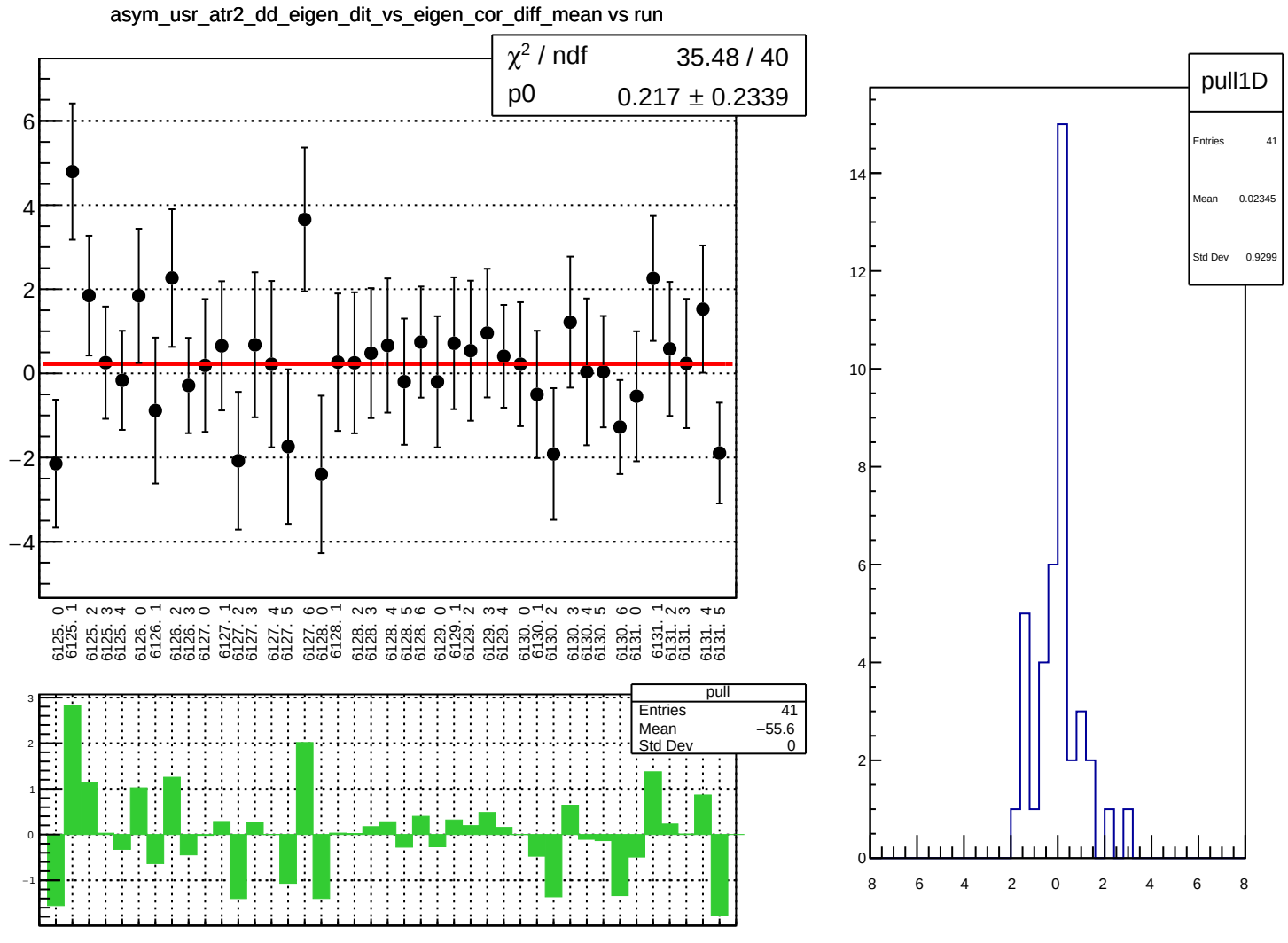

pull1D
Entries 41
Mean −0.008561
Std Dev 0.7945
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

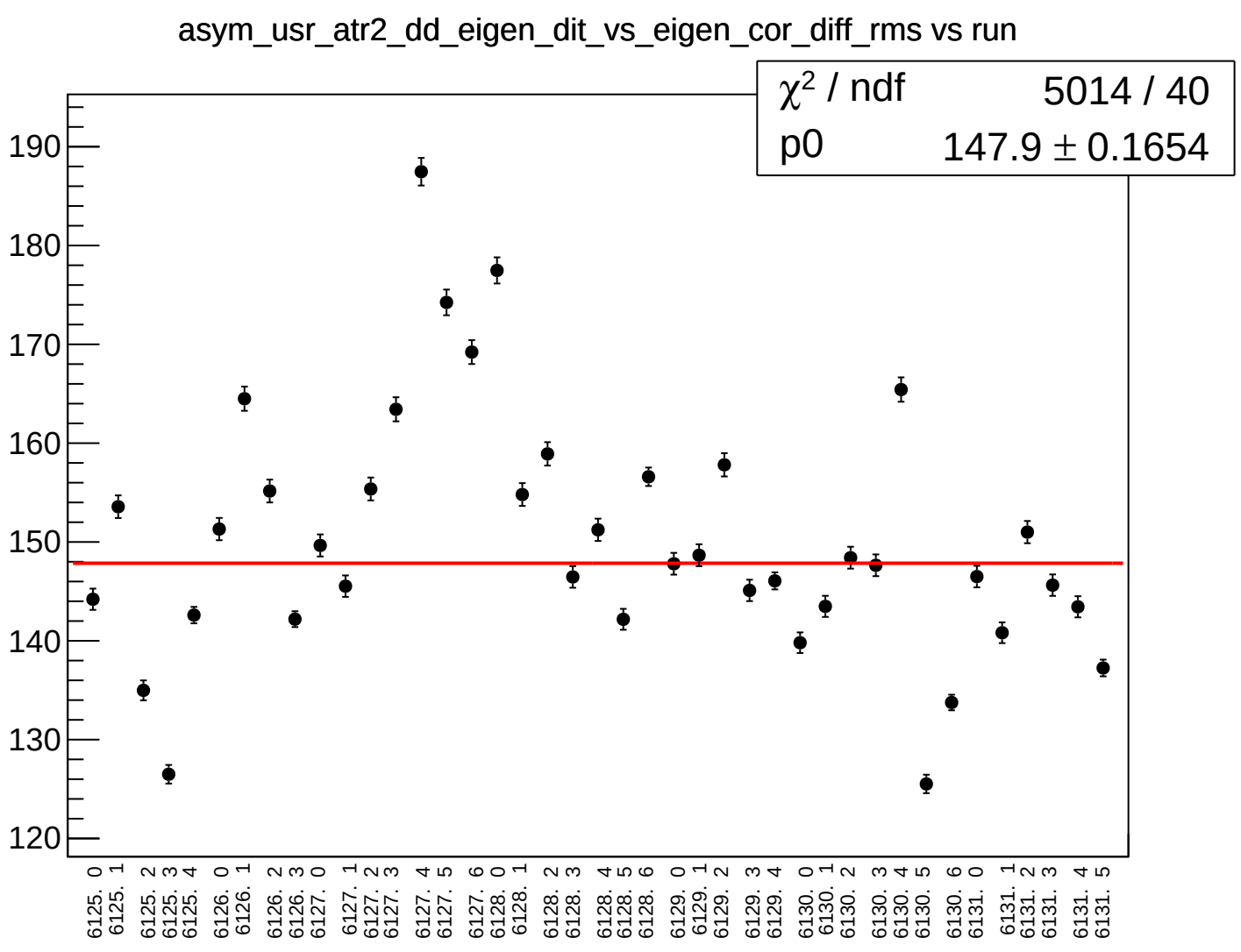

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1386 / 40
p0 0.01401 ± 1.563e–05
0.0155
0.015
0.0145
0.014
0.0135
0.013
0.0125
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

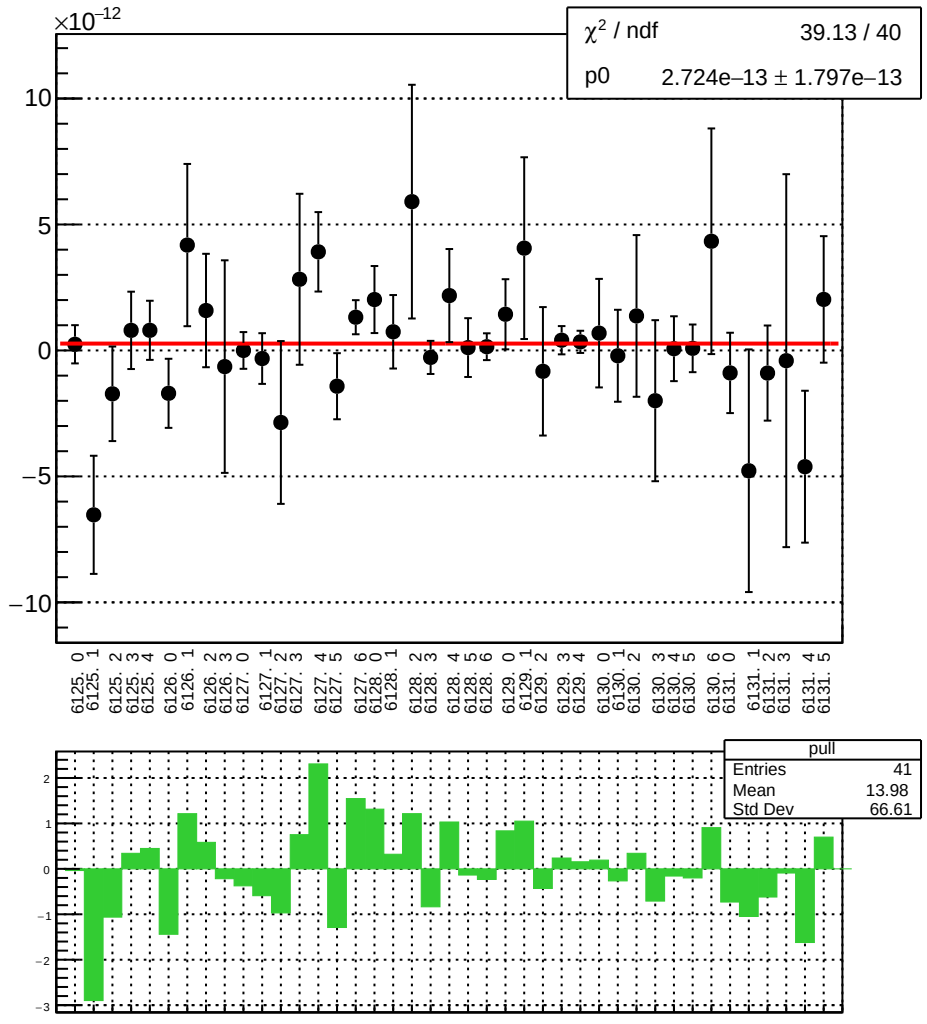

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.48 / 40
p0 0.217 ± 0.2339
pull
Entries 41
Mean −55.6
Std Dev 0

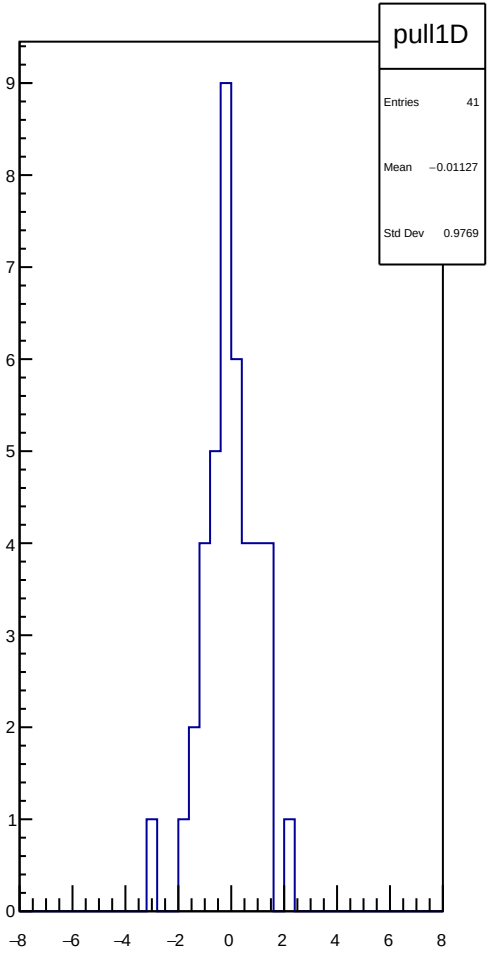

pull1D
Entries 41
Mean 0.02345
Std Dev 0.9299

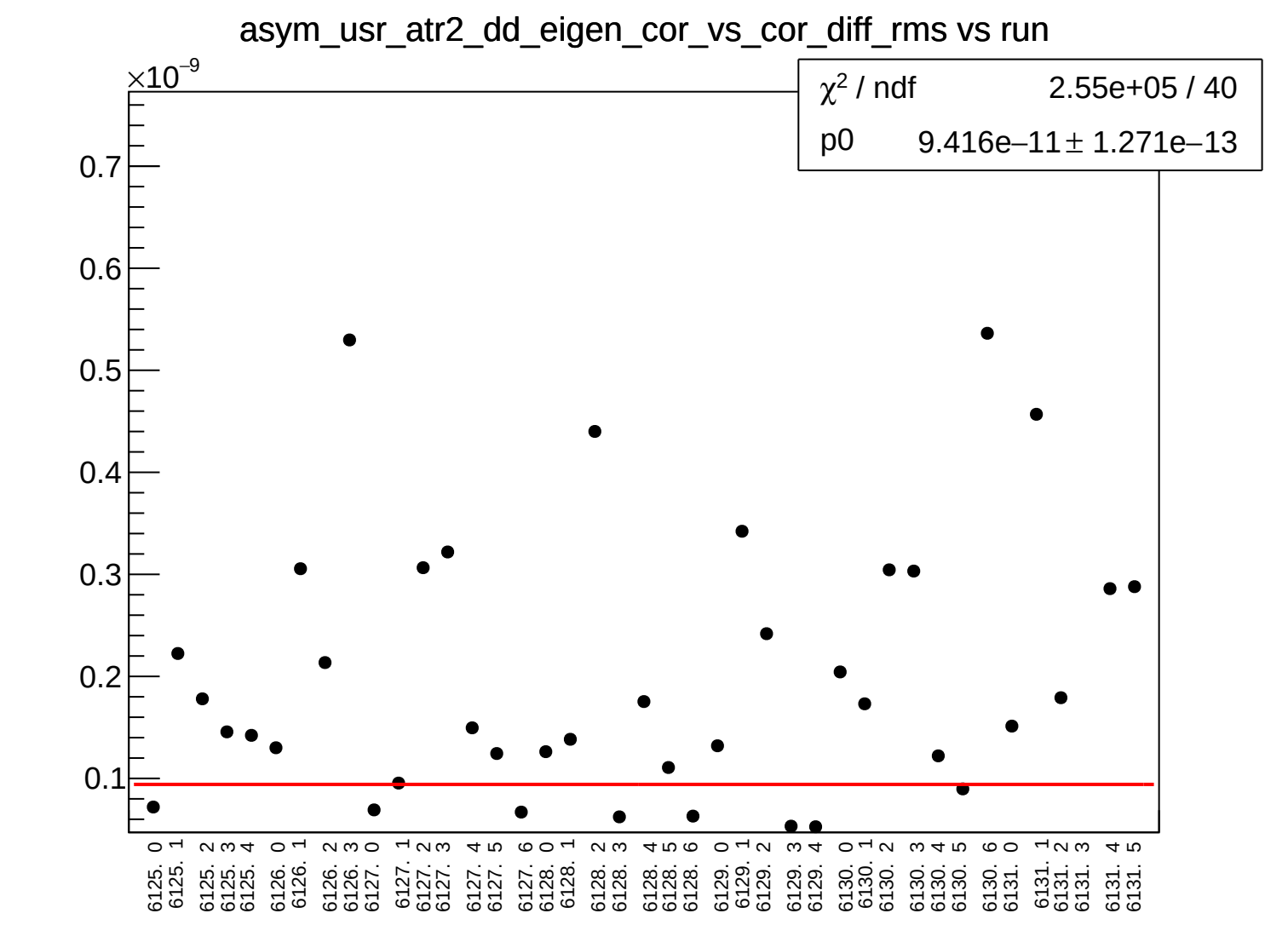

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5014 / 40
p0 147.9 ± 0.1654
190
180
170
160
150
140
130
120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

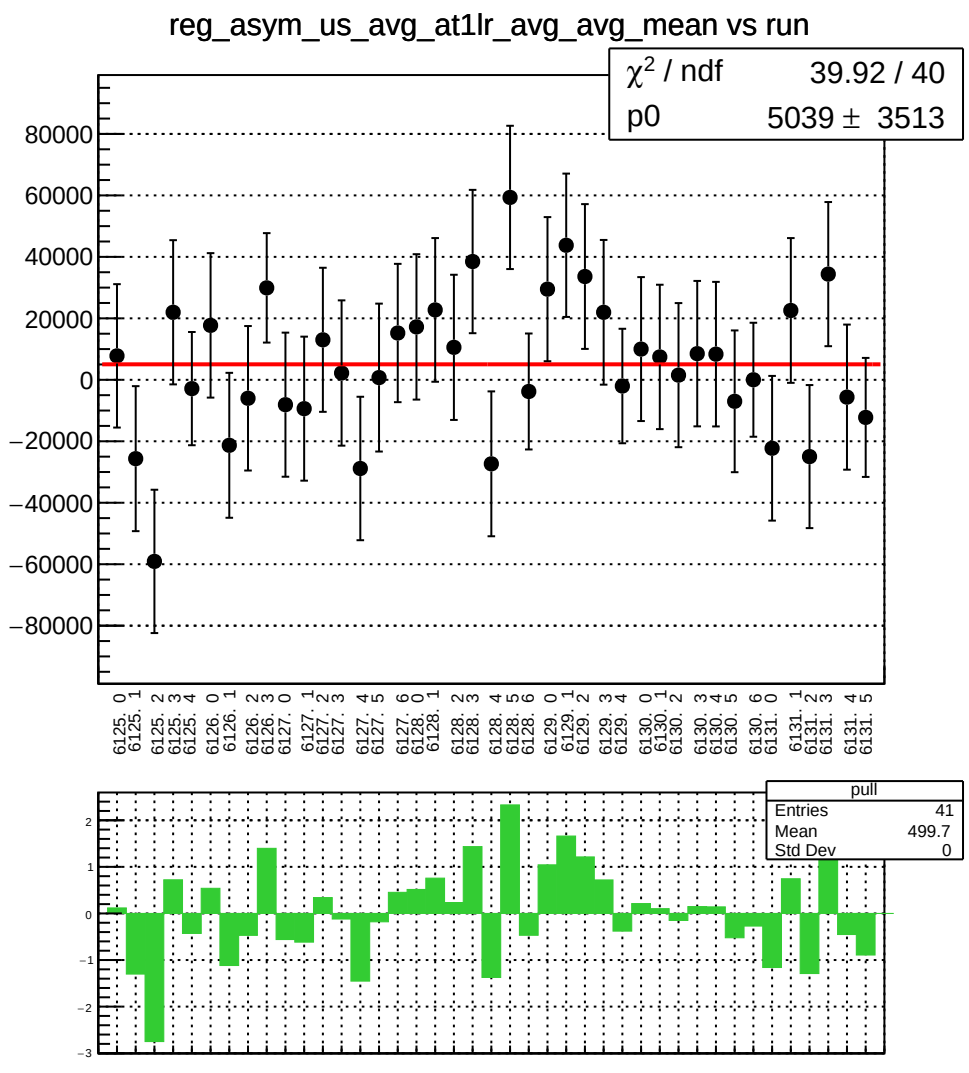

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.48 / 40
p0 0.217 ± 0.2339
pull
Entries 41
Mean −55.6
Std Dev 0
pull1D
Entries 41
Mean 0.02345
Std Dev 0.9299

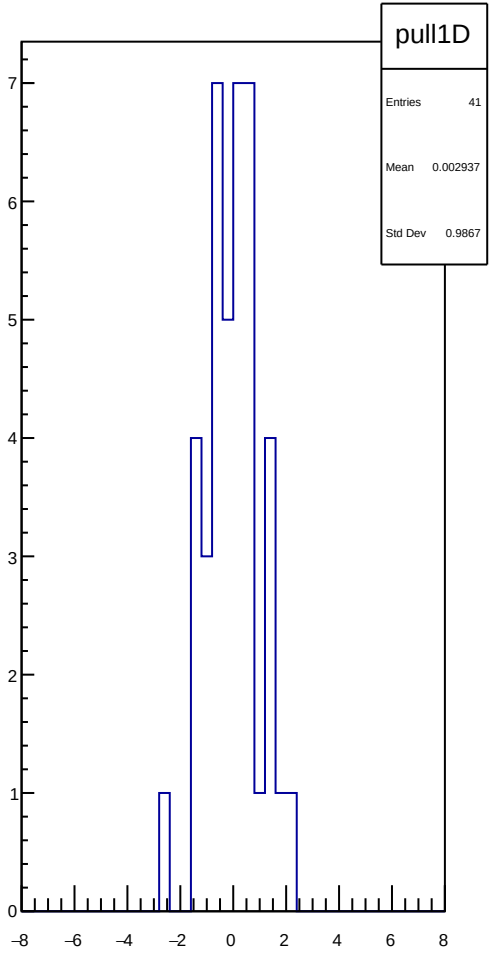

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5014 / 40
p0 147.9 ± 0.1654
190
180
170
160
150
140
130
120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

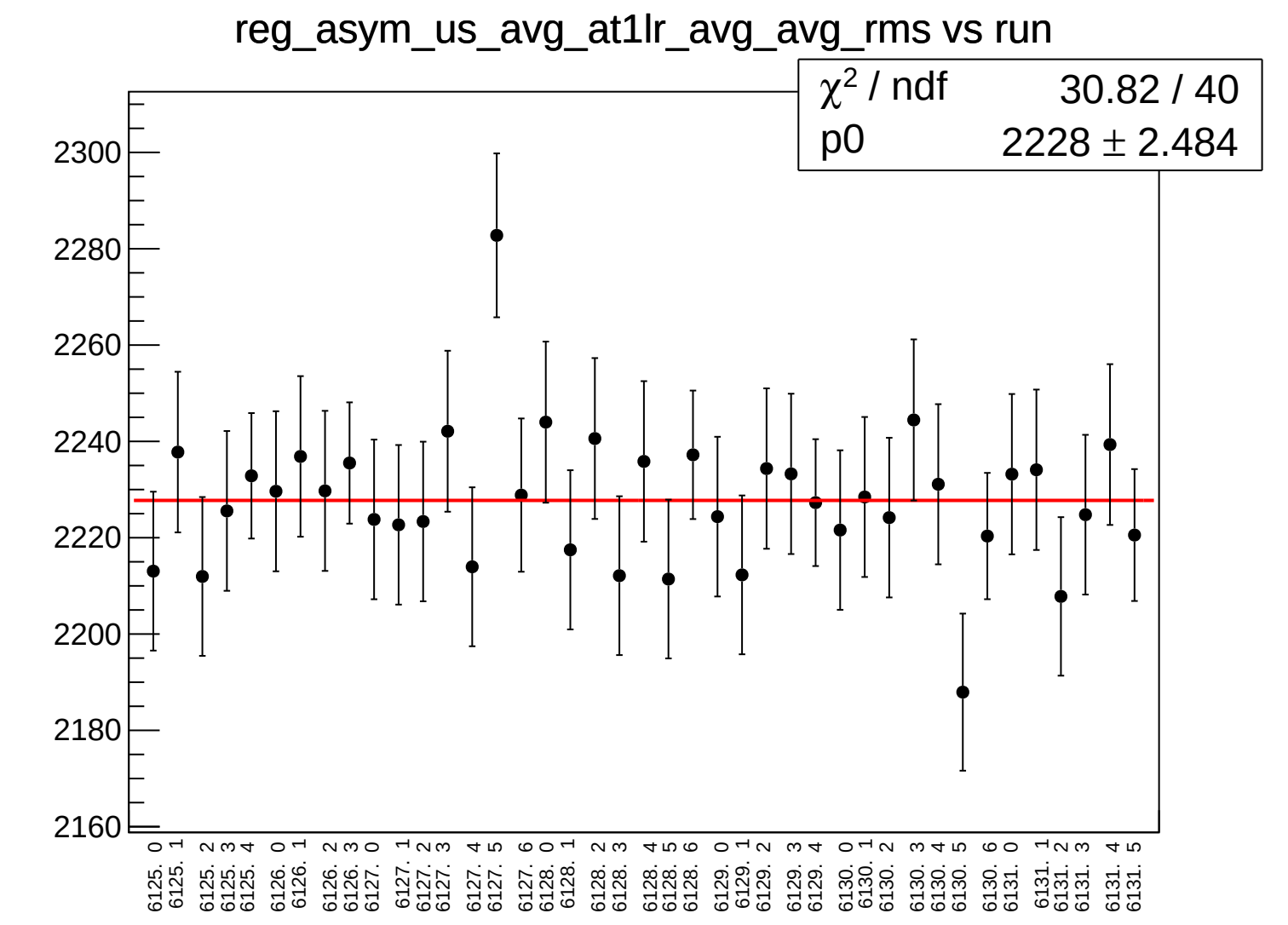

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 39.13 / 40
p0 2.724e−13 ± 1.797e−13
10
5
0
−5
−10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 13.98
Std Dev 66.61
2
1
0
−1
−2
−3

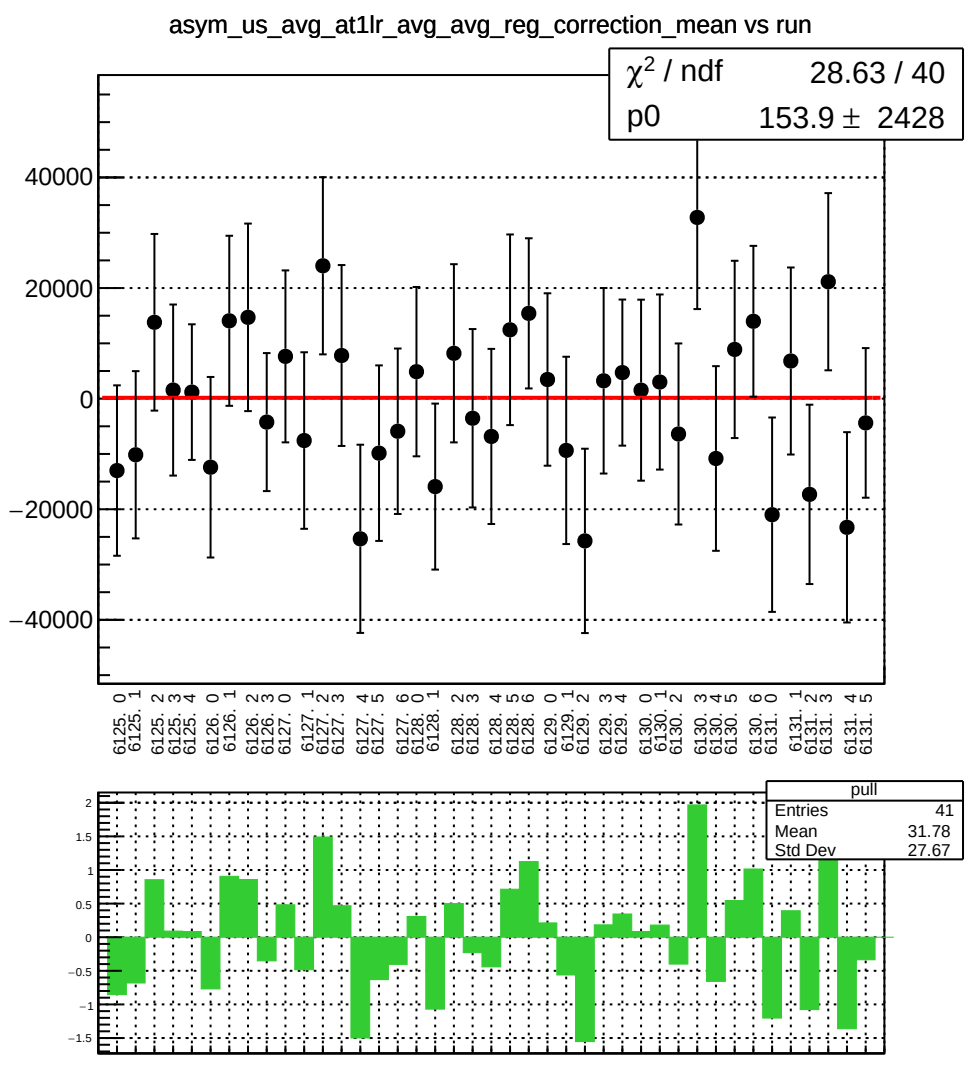

pull1D
Entries 41
Mean −0.01127
Std Dev 0.9769
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.55e+05 / 40
p0 9.416e−11 ± 1.271e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 39.92 / 40
p0 5039 ± 3513
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 499.7
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean 0.002937
Std Dev 0.9867
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 30.82 / 40
p0 2228 ± 2.484
2300
2280
2260
2240
2220
2200
2180
2160
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 28.63 / 40
p0 153.9 ± 2428
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 31.78
Std Dev 27.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.01086
Std Dev 0.8356
9
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−6
−4
−2
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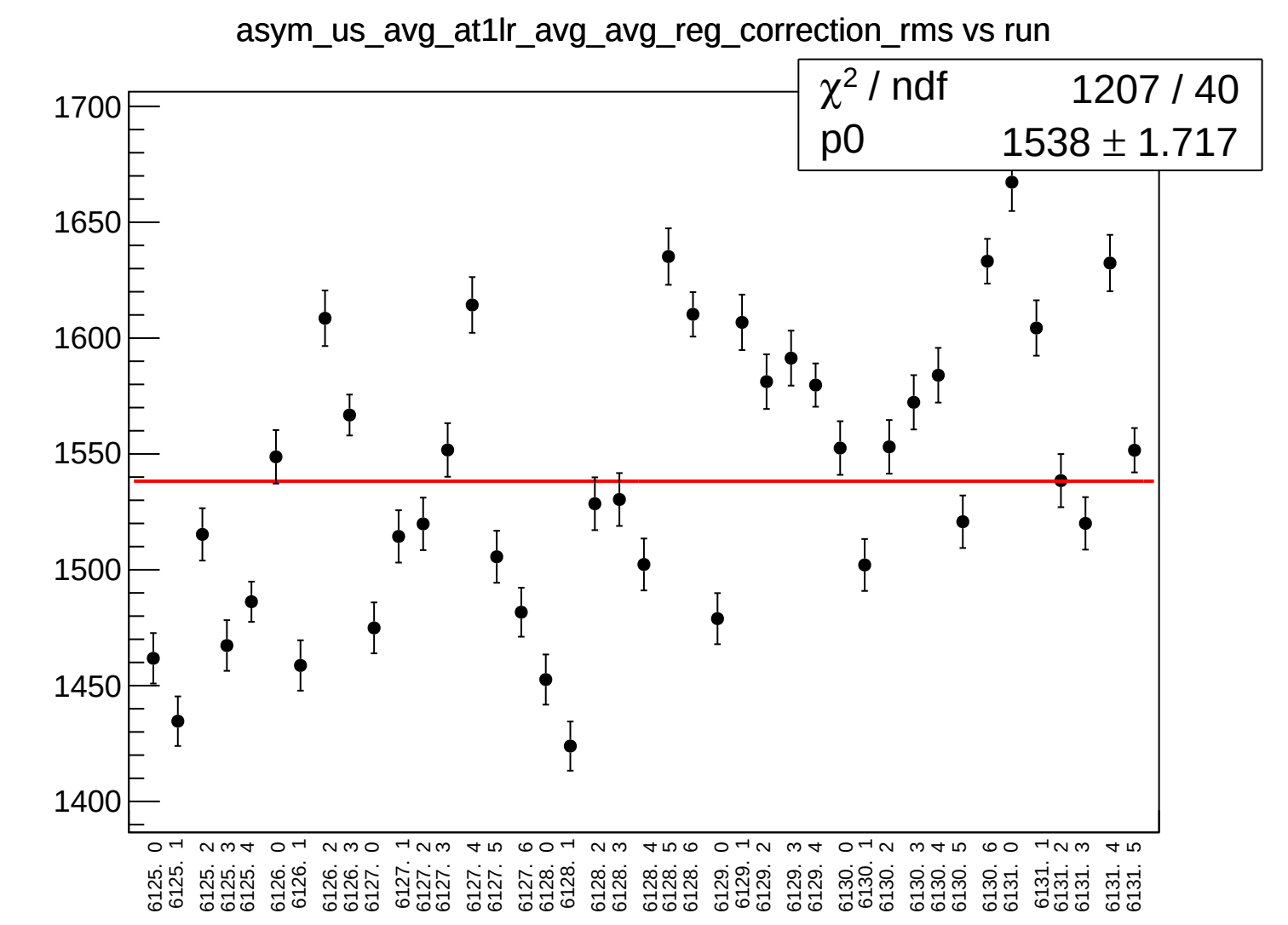
2
4
6
8


asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1207 / 40
p0 1538 ± 1.717
1700
1650
1600
1550
1500
1450
1400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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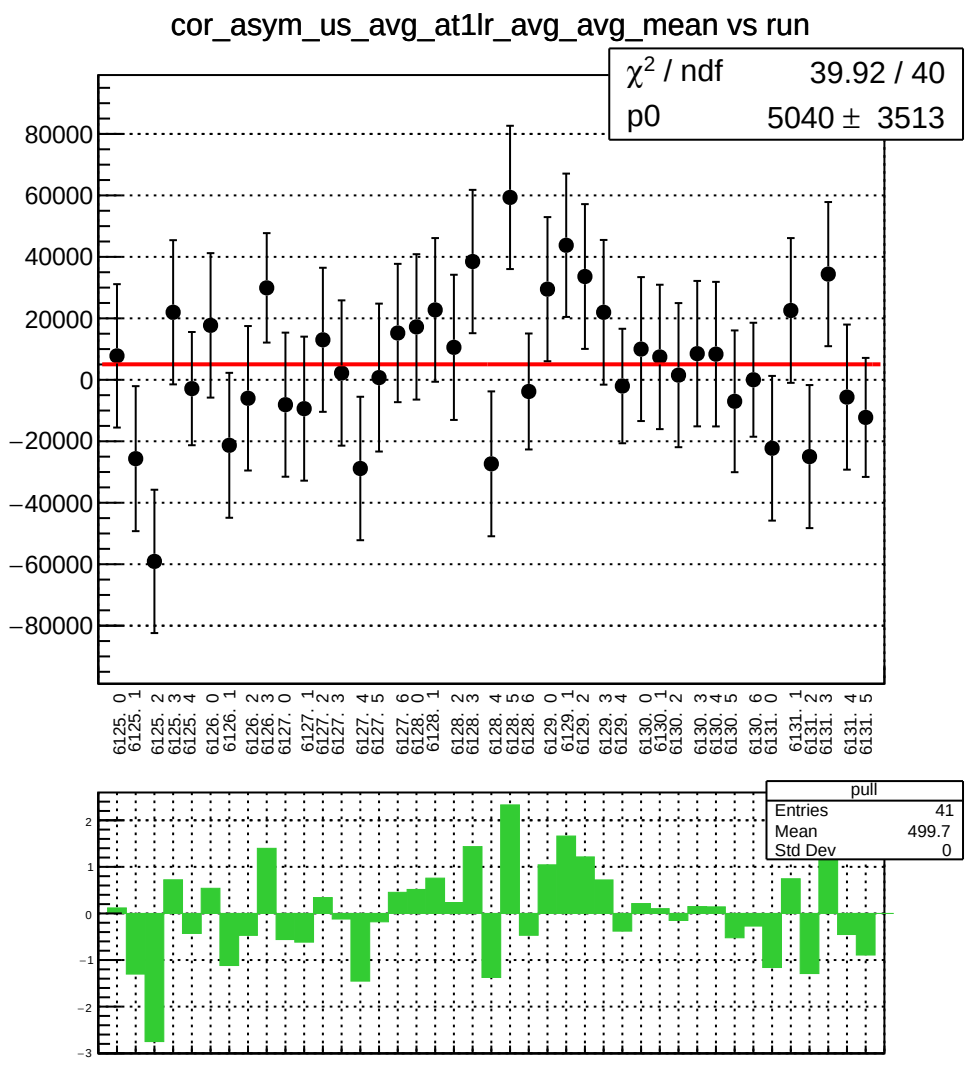
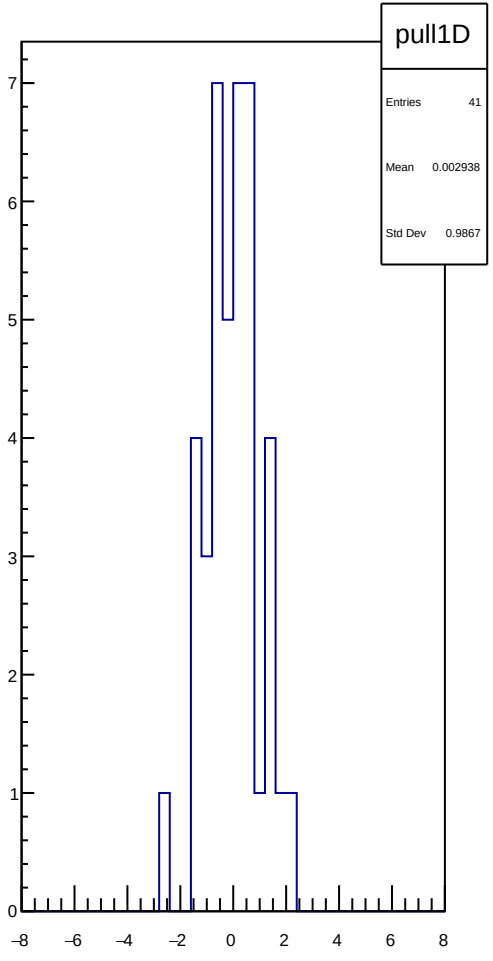
6131. 4
6131. 5


cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 39.92 / 40
p0 5040 ± 3513
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 499.7
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean 0.002938
Std Dev 0.9867
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6
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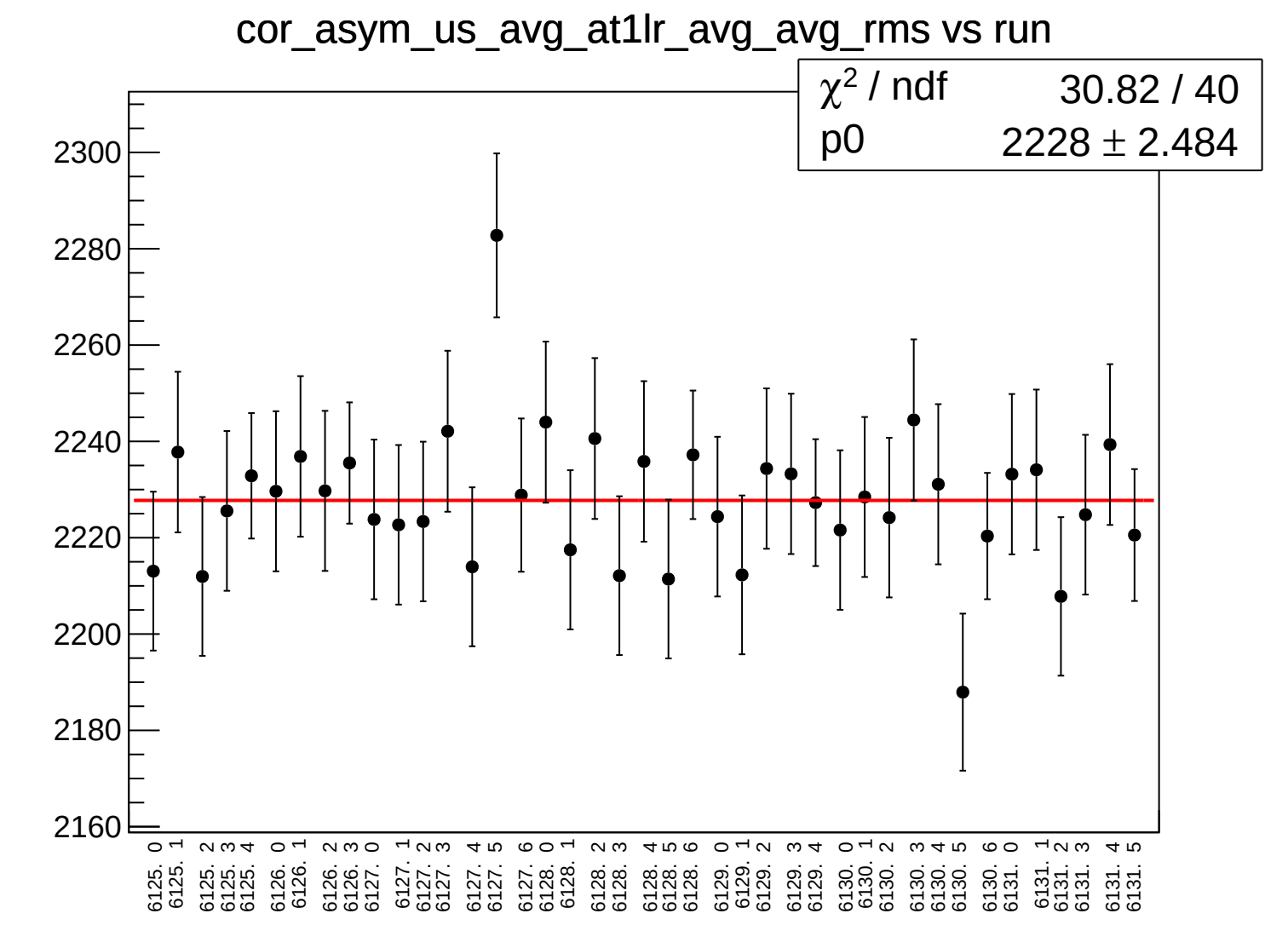
cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 30.82 / 40
p0 2228 ± 2.484
2300
2280
2260
2240
2220
2200
2180
2160
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
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6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
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6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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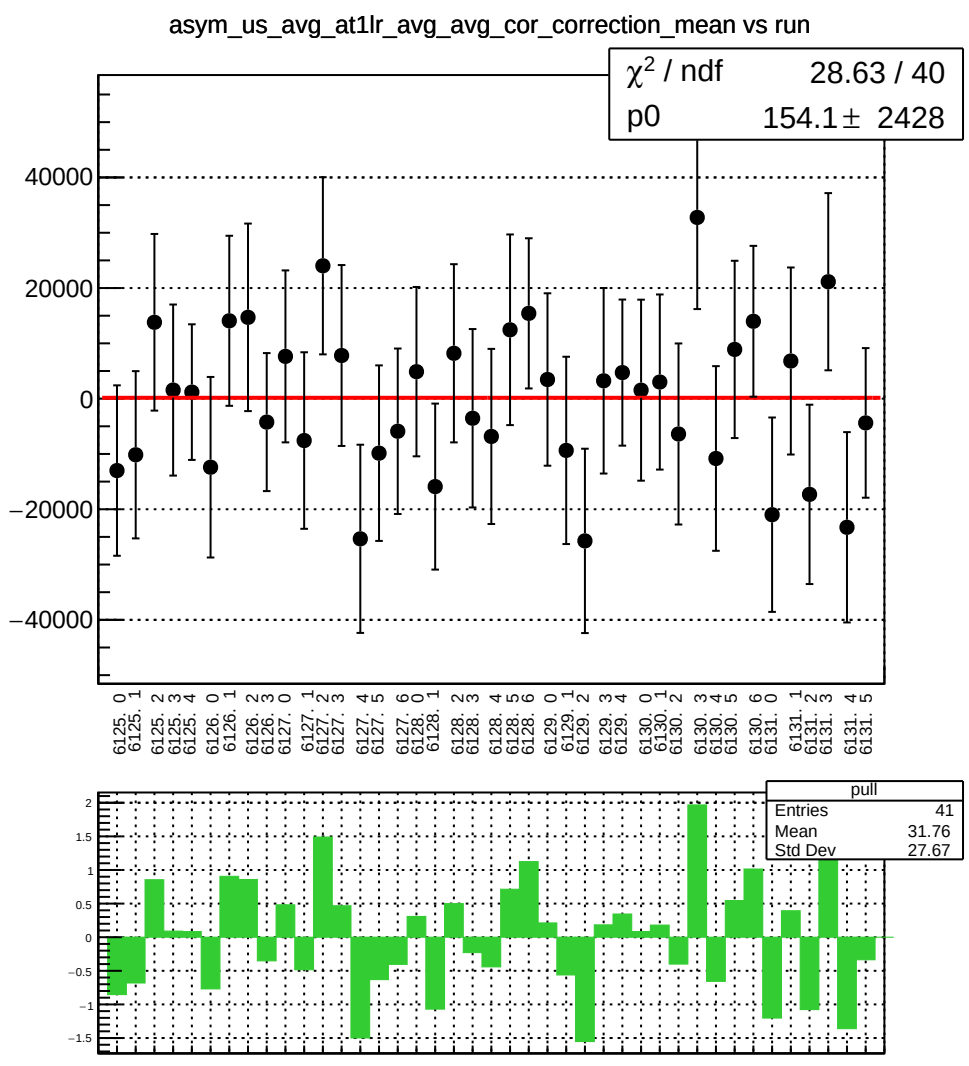
6131. 5


asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 28.63 / 40
p0 154.1 ± 2428
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
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6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
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6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 31.76
Std Dev 27.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.01086
Std Dev 0.8356
9
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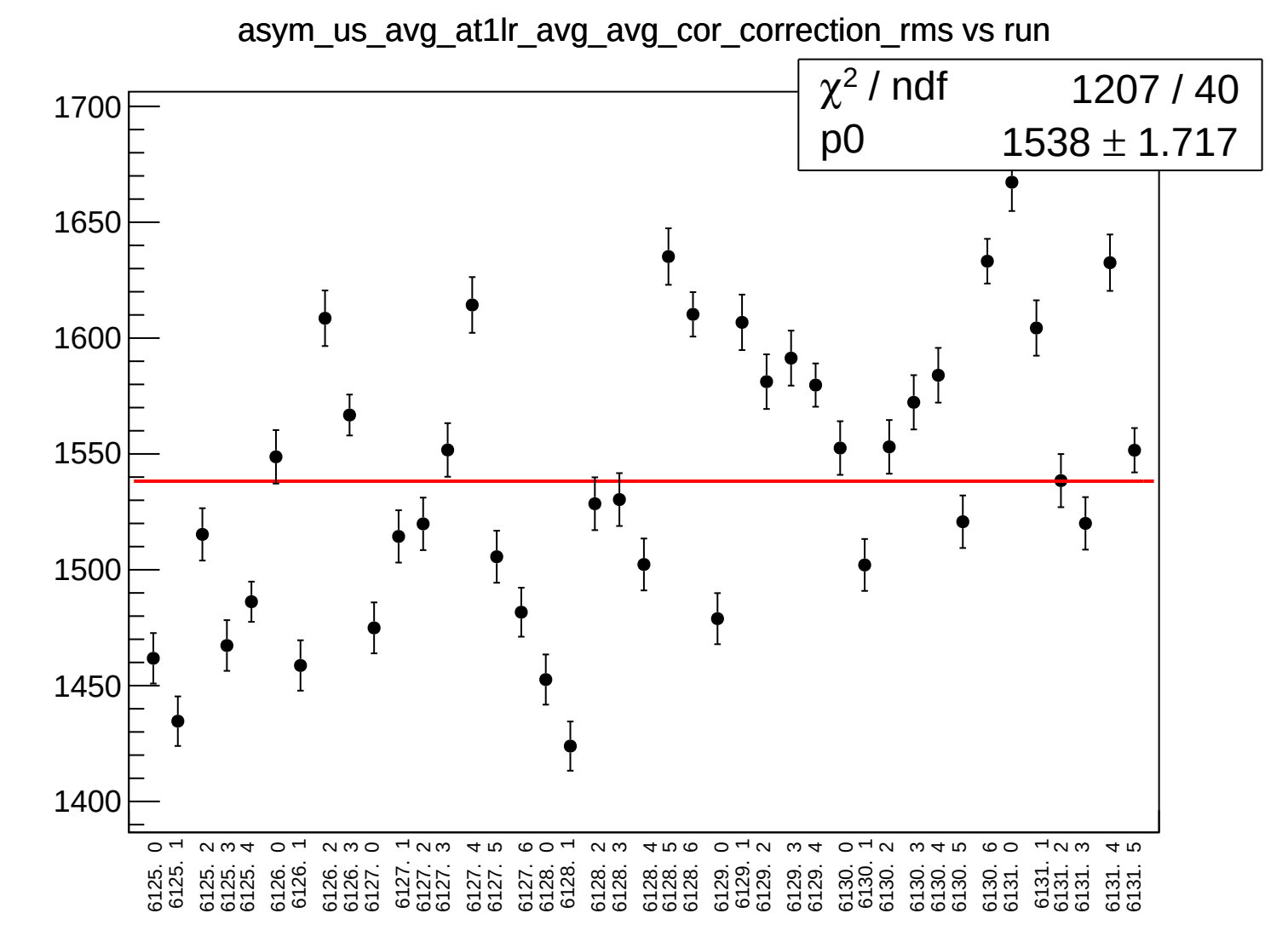
asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1207 / 40
p0 1538 ± 1.717
1700
1650
1600
1550
1500
1450
1400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6131. 0
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6131. 2
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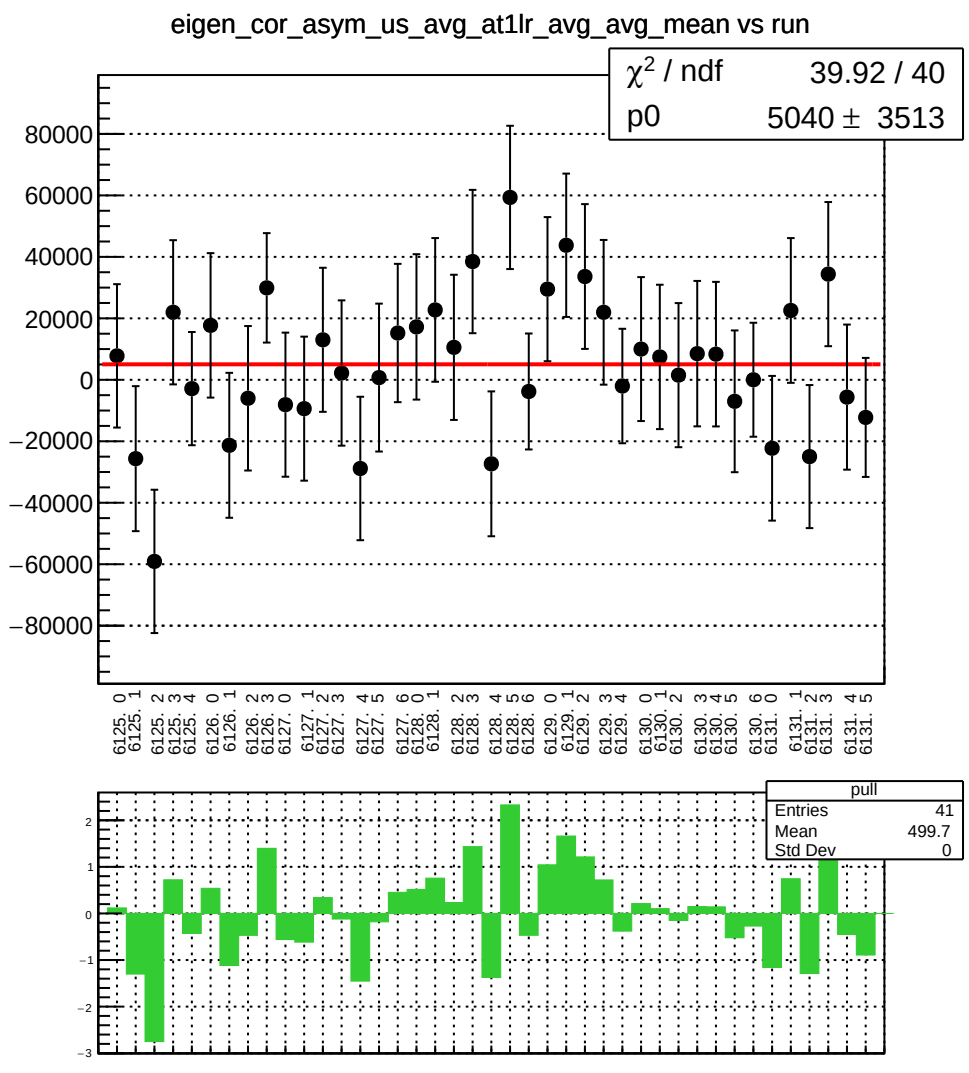
6131. 4
6131. 5


eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 39.92 / 40
p0 5040 ± 3513
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
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6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
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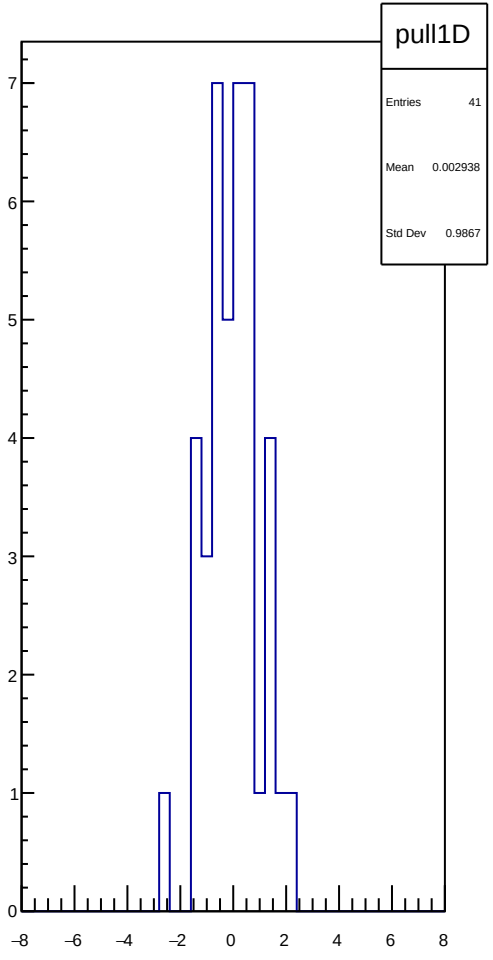
6131. 5
pull
Entries 41
Mean 499.7
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean 0.002938
Std Dev 0.9867
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−8
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−4
−2
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2
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6
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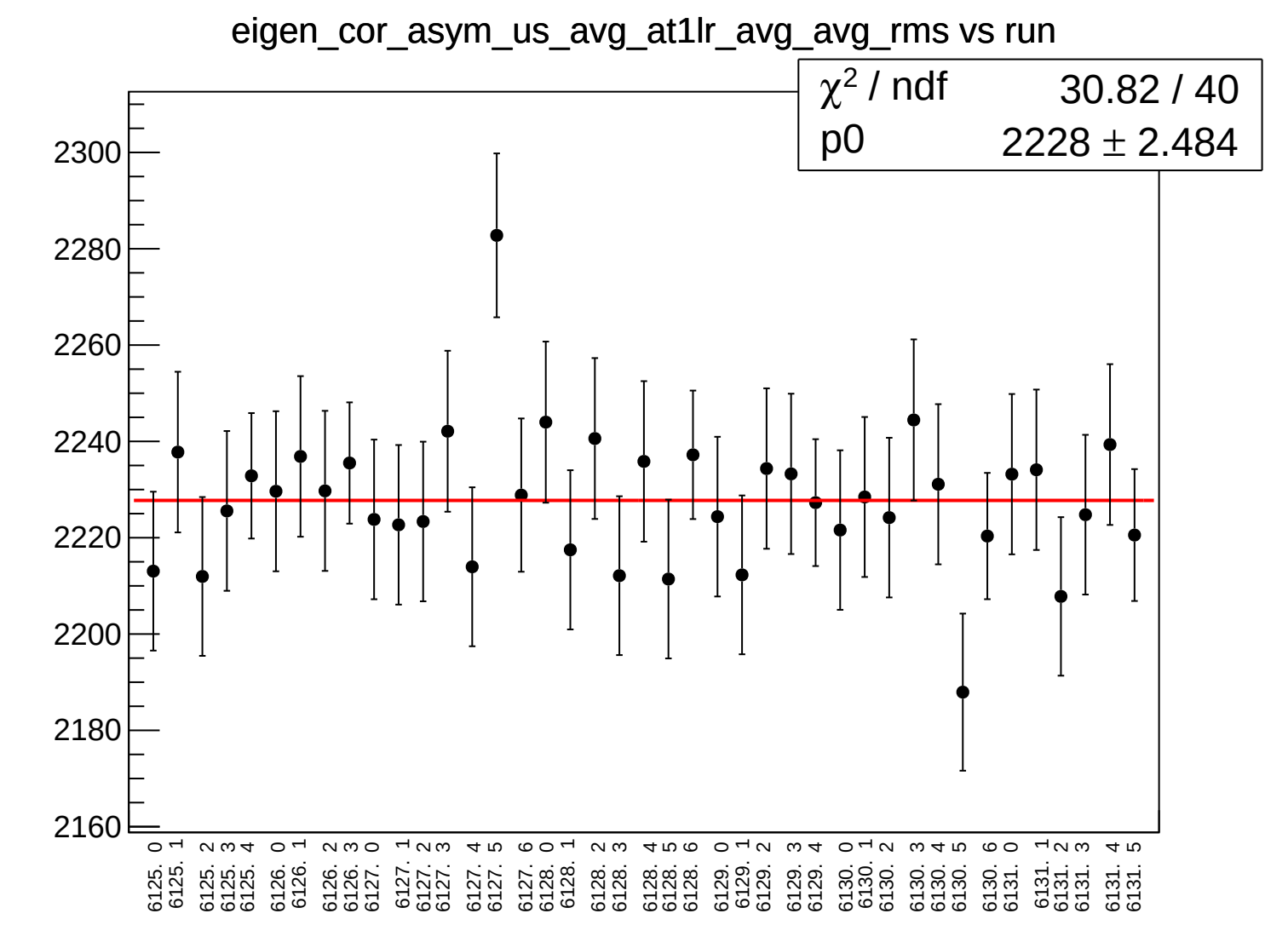
eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 30.82 / 40
p0 2228 ± 2.484
2300
2280
2260
2240
2220
2200
2180
2160
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
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6126. 3
6127. 0
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6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
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6129. 2
6129. 3
6129. 4
6130. 0
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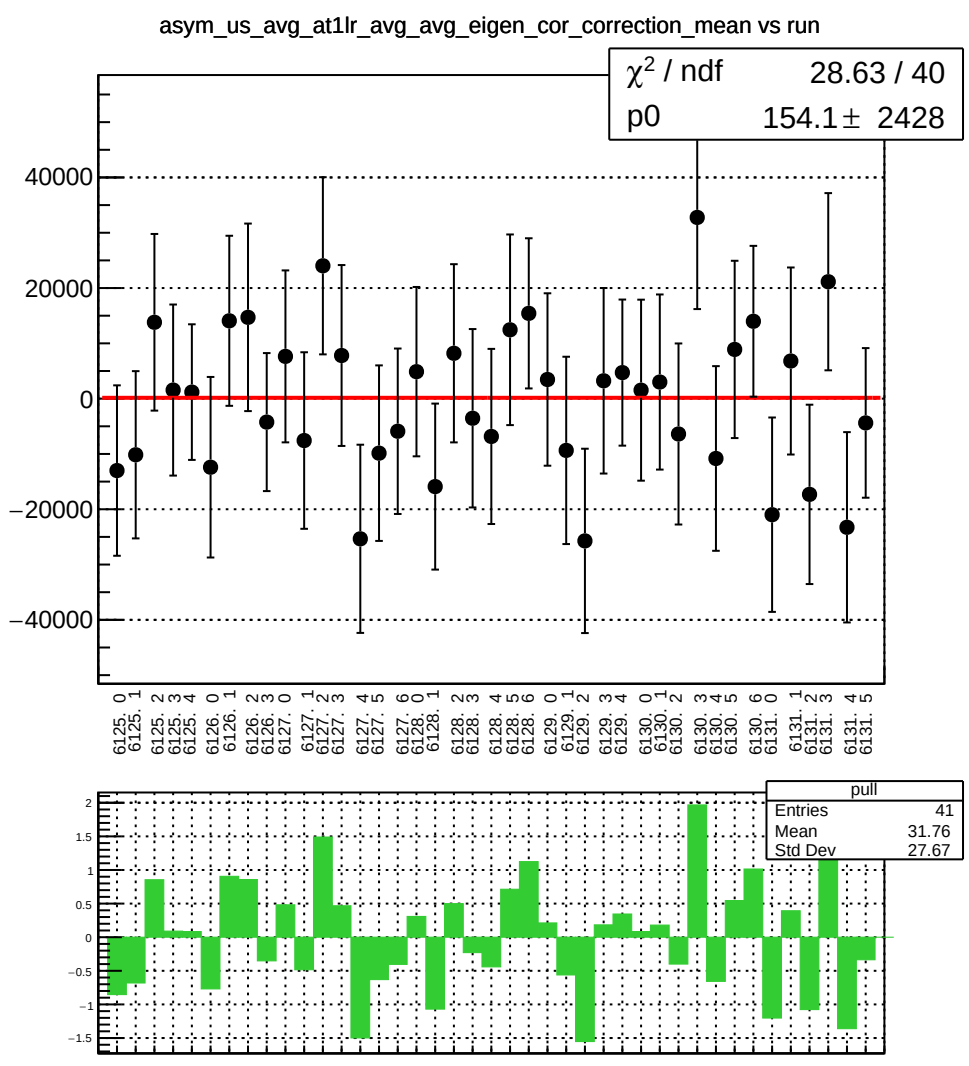
asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 28.63 / 40
p0 154.1± 2428
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
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6127. 0
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6130. 0
6130. 1
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6130. 3
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6131. 1
6131. 2
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6131. 4
6131. 5
pull
Entries 41
Mean 31.76
Std Dev 27.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.01086
Std Dev 0.8356
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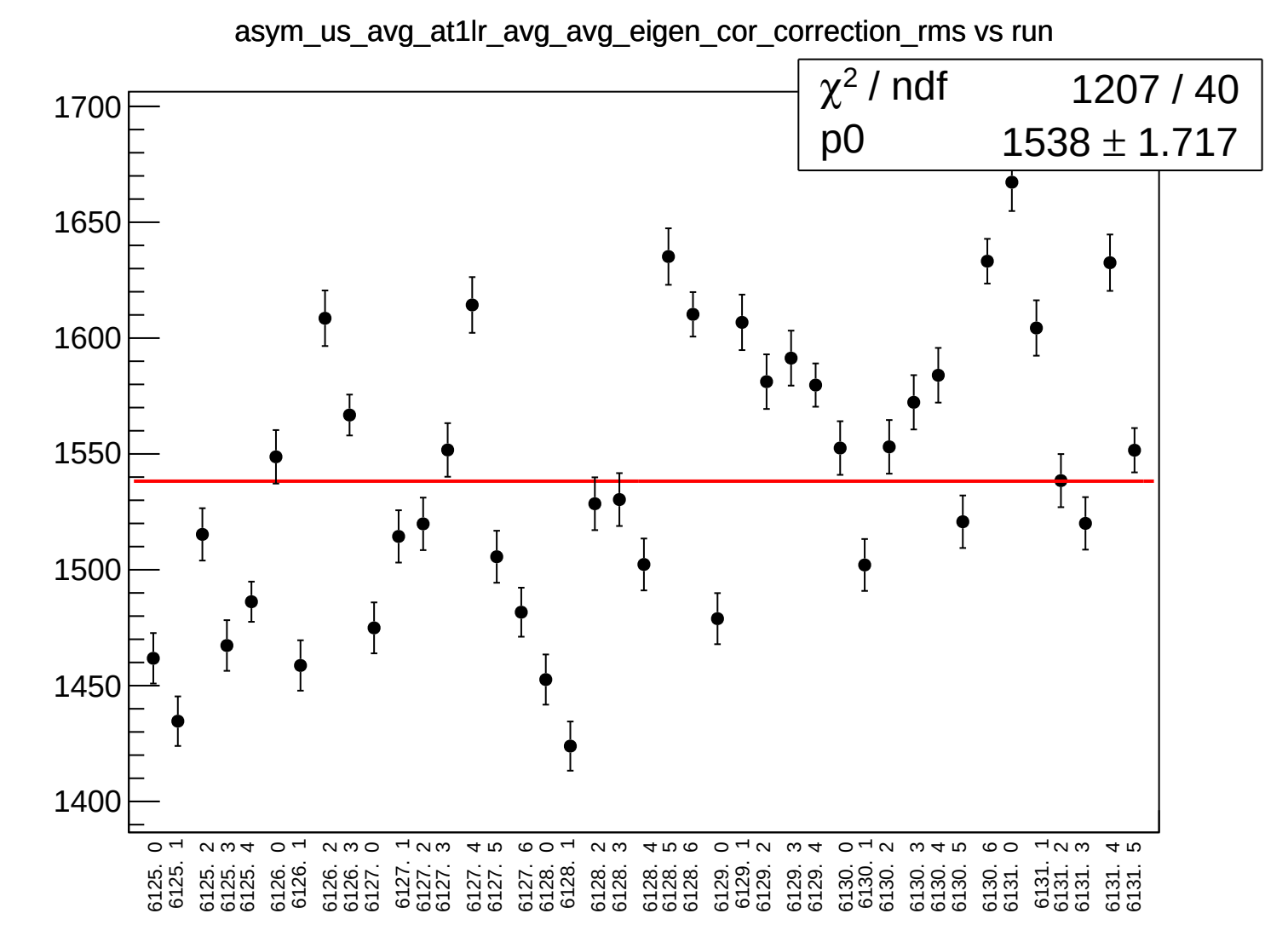
asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1207 / 40
p0 1538 ± 1.717
1700
1650
1600
1550
1500
1450
1400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6127. 5
6127. 6
6128. 0
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6128. 2
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6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6131. 0
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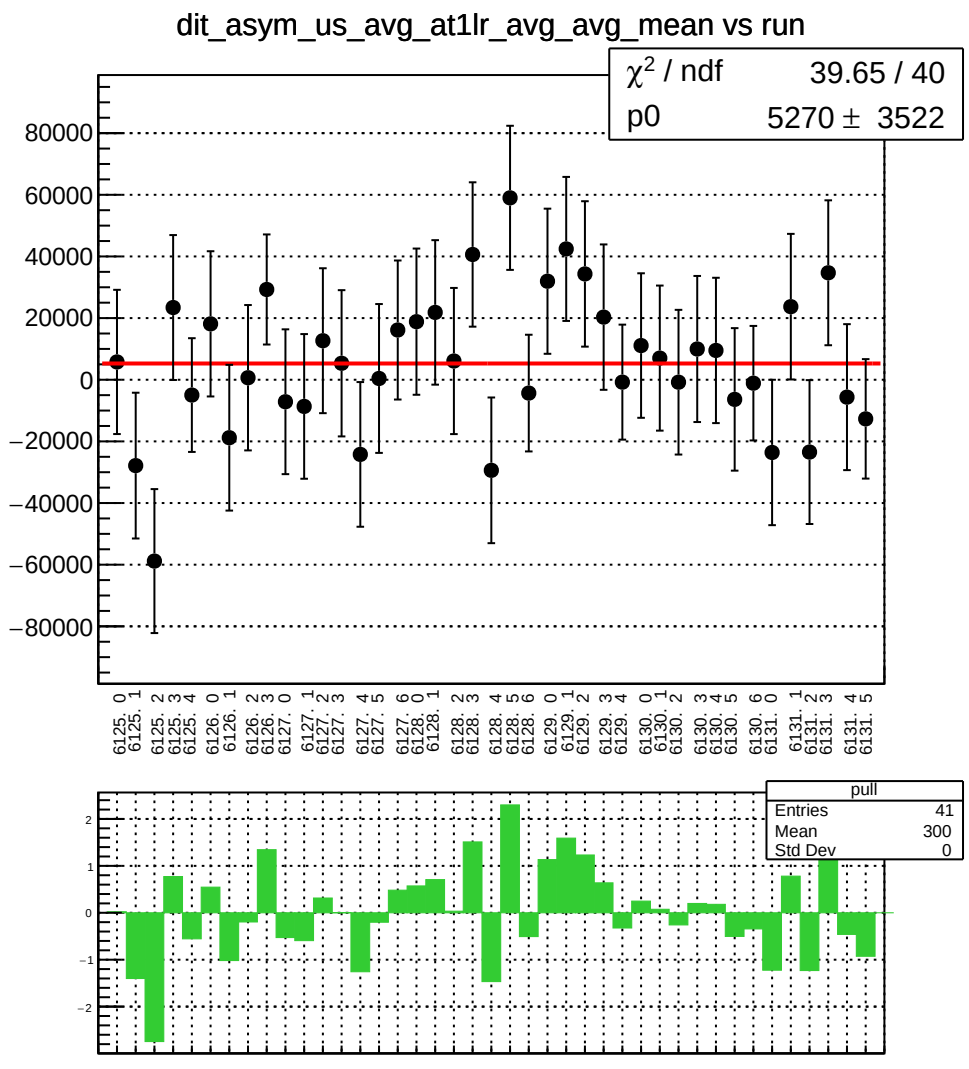
6131. 4
6131. 5


dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 39.65 / 40
p0 5270 ± 3522
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
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6128. 2
6128. 3
6128. 4
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6128. 6
6129. 0
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6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
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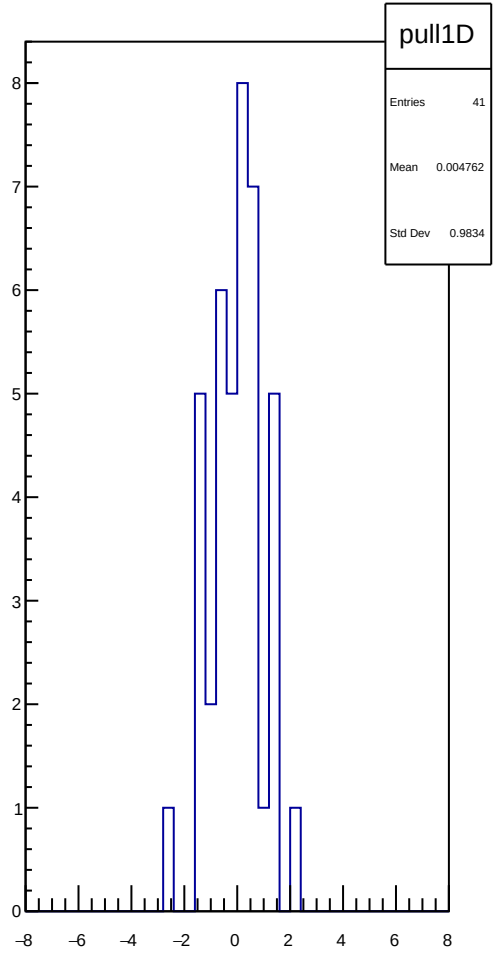
6131. 4
6131. 5
pull
Entries 41
Mean 300
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean 0.004762
Std Dev 0.9834
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7
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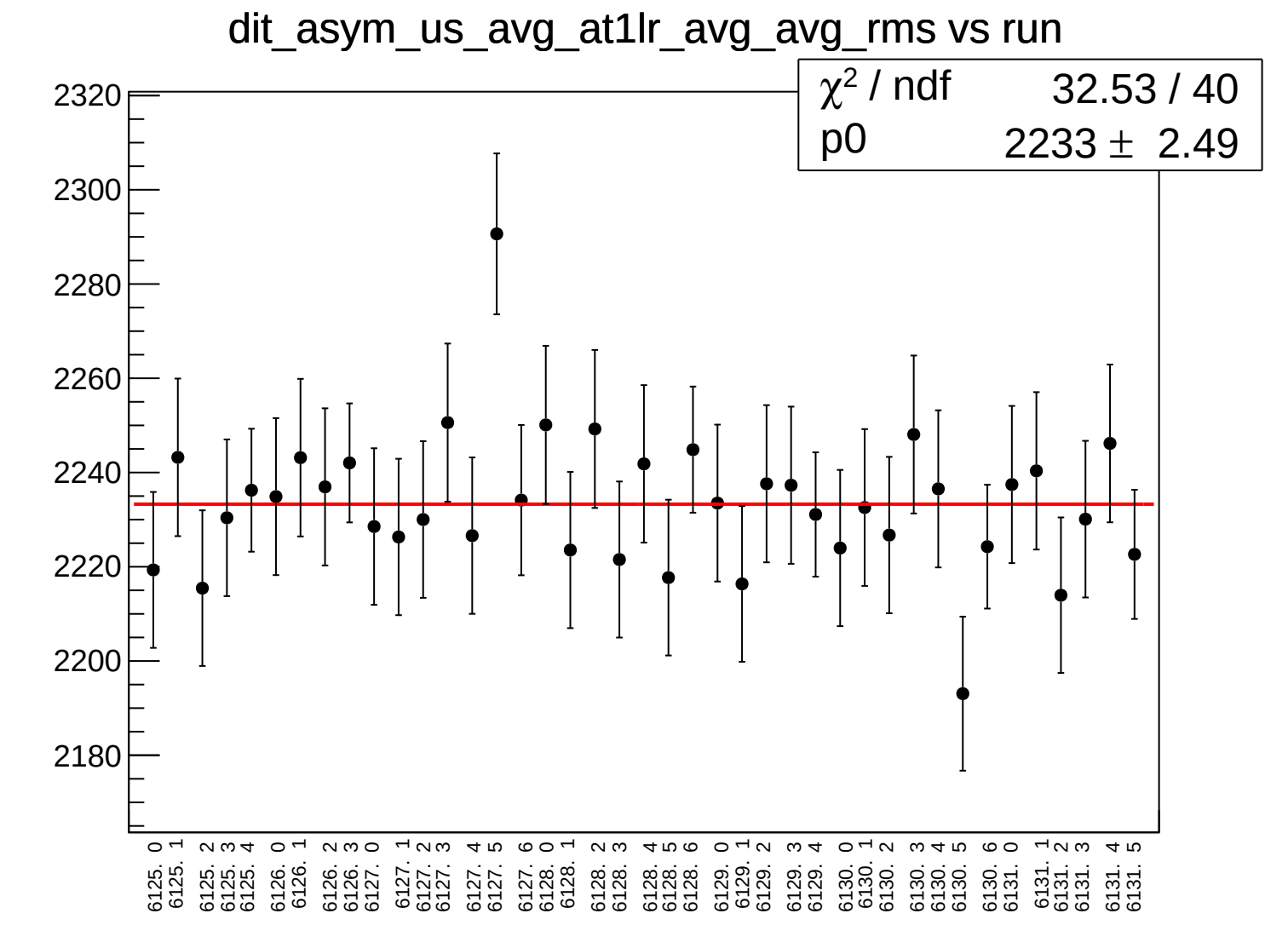
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 32.53 / 40
p0 2233 ± 2.49
2320
2300
2280
2260
2240
2220
2200
2180
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
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6128. 5
6128. 6
6129. 0
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6129. 2
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6129. 4
6130. 0
6130. 1
6130. 2
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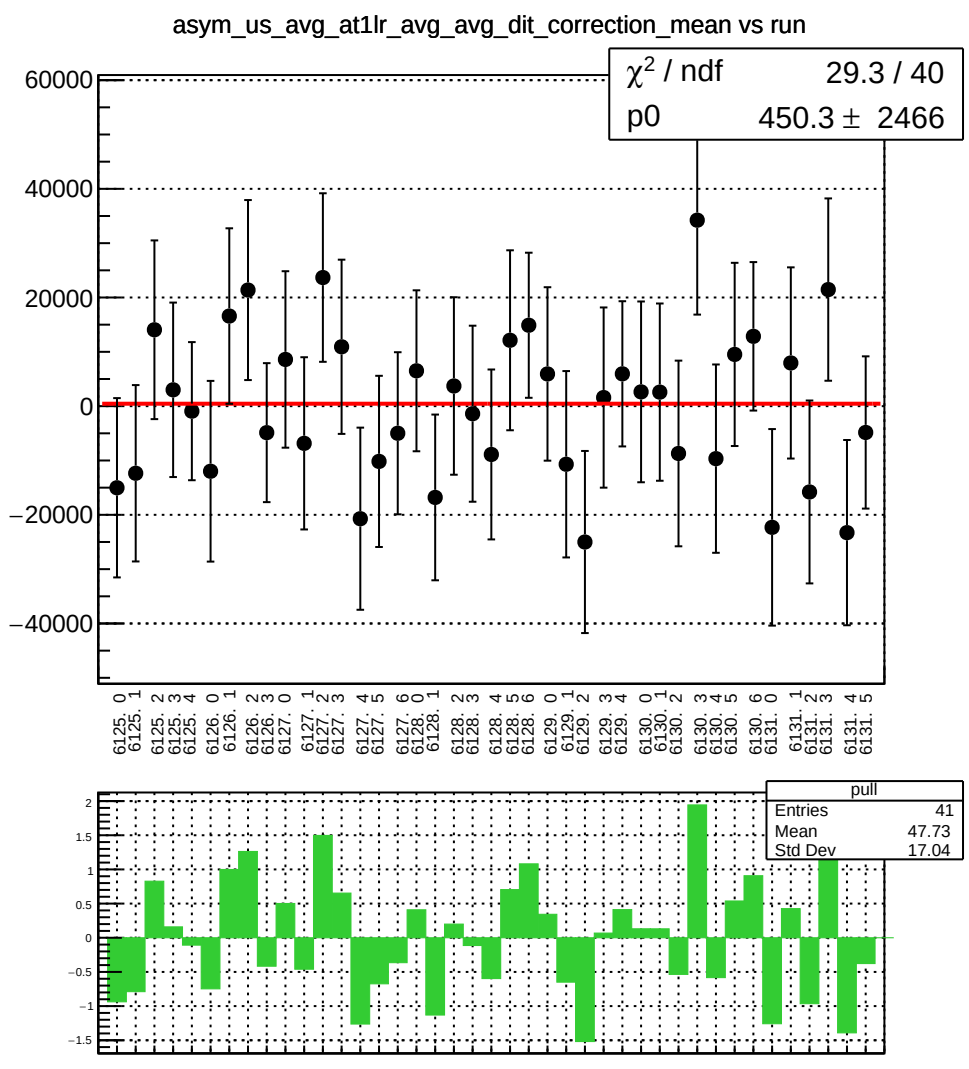
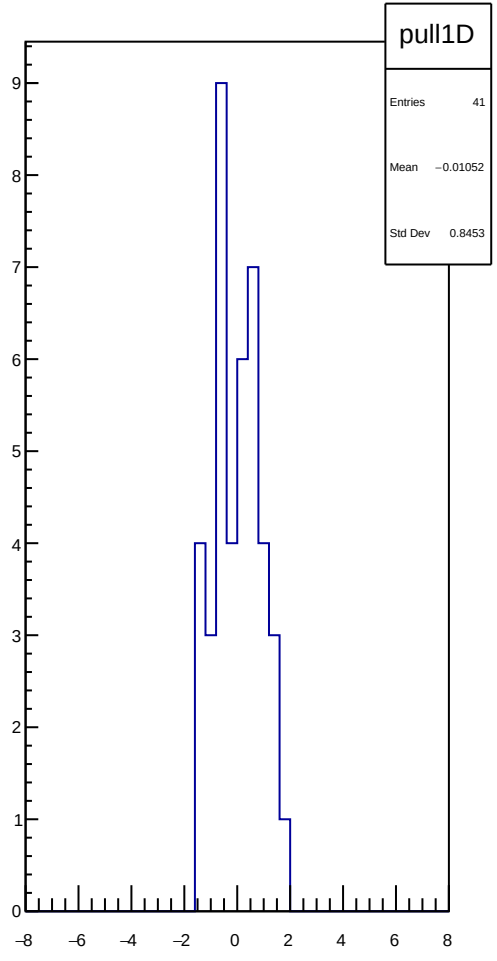
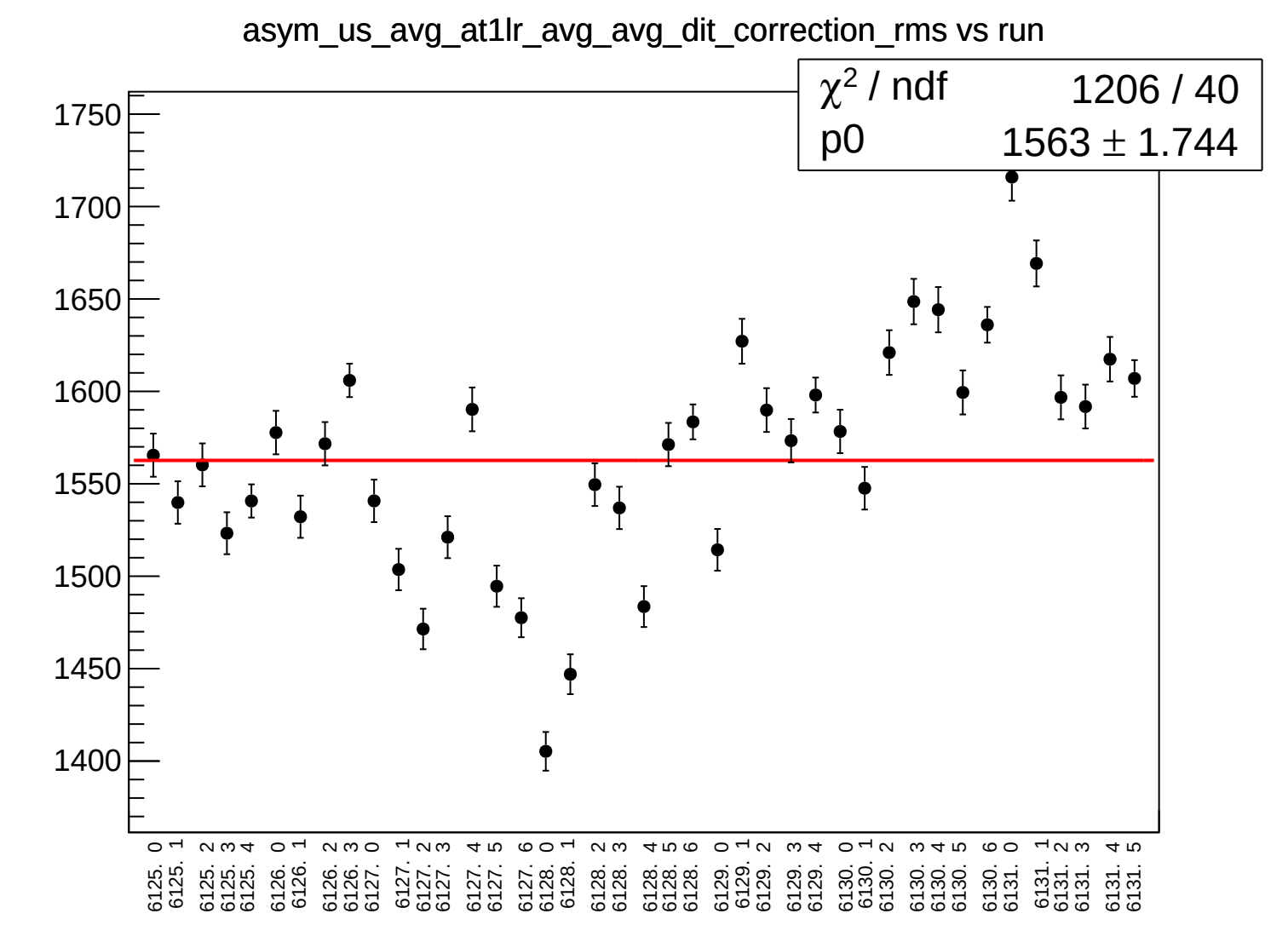
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
χ² / ndf 29.3 / 40
p0 450.3 ± 2466
pull
Entries 41
Mean 47.73
Std Dev 17.04


pull1D
Entries 41
Mean −0.01052
Std Dev 0.8453


asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1206 / 40
p0 1563 ± 1.744
1750
1700
1650
1600
1550
1500
1450
1400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6130. 1
6130. 2
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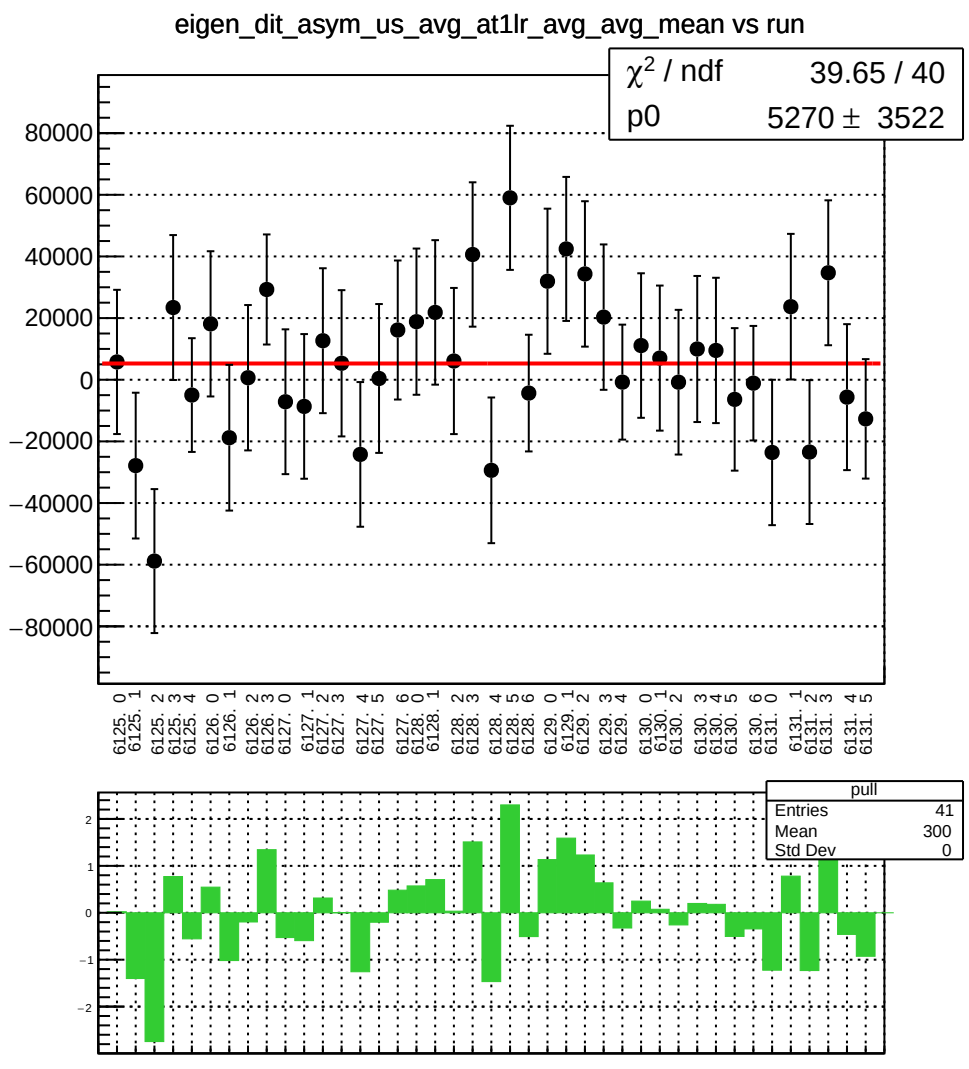
eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 39.65 / 40
p0 5270 ± 3522
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
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6127. 0
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6127. 2
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6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
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6128. 6
6129. 0
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6130. 1
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6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
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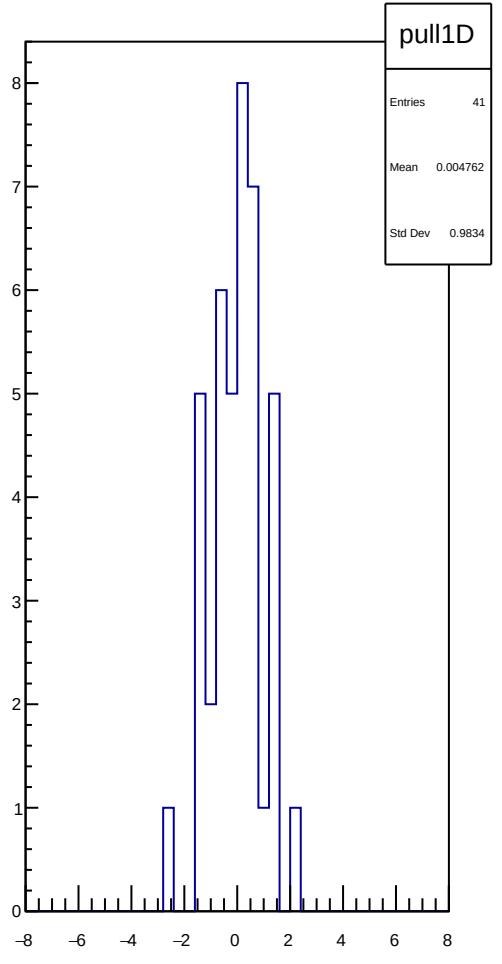
6131. 4
6131. 5
pull
Entries 41
Mean 300
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean 0.004762
Std Dev 0.9834
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7
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5
4
3
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1
0
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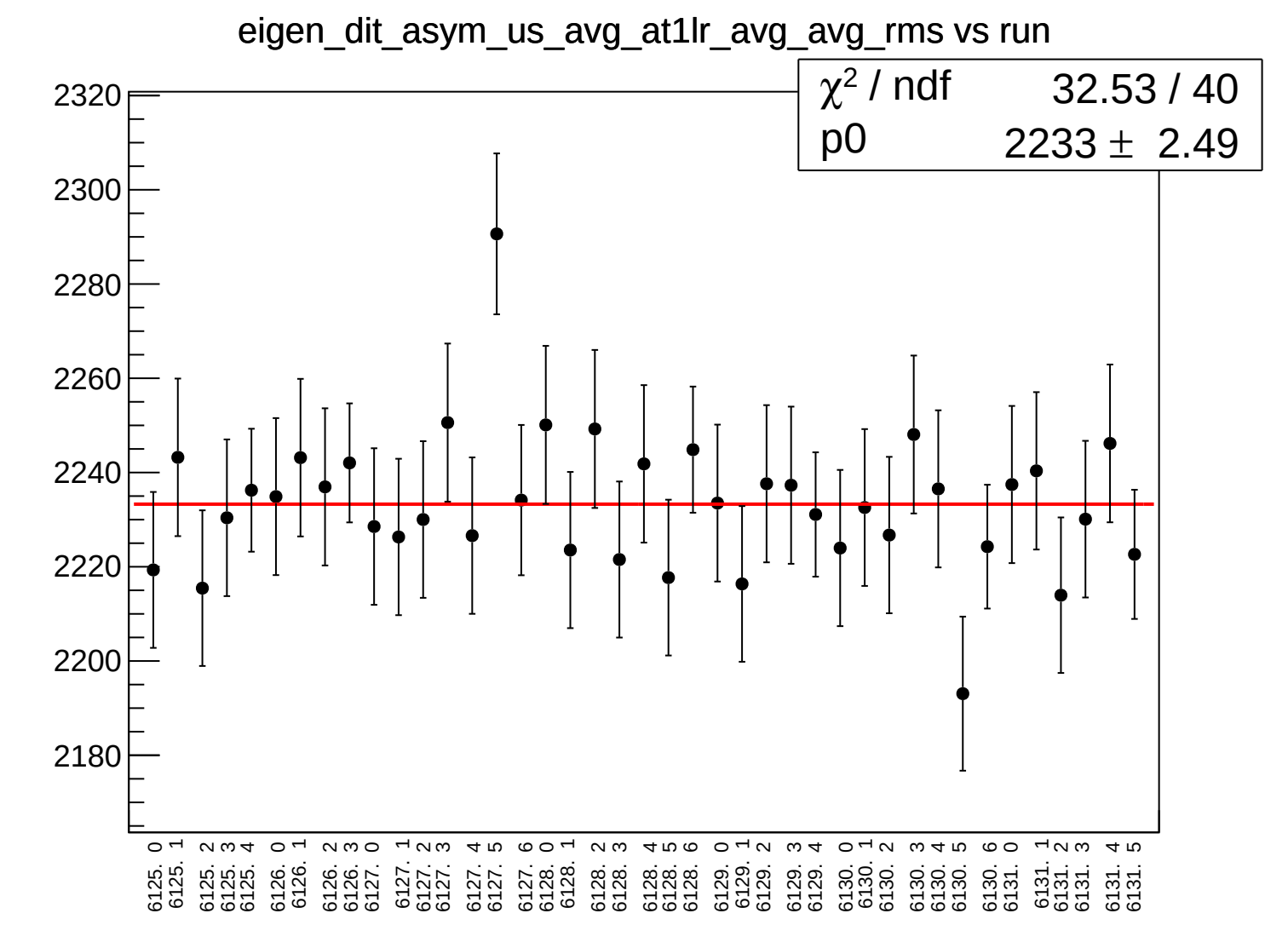
−4
−2
0
2
4
6
8


eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 32.53 / 40
p0 2233 ± 2.49
2320
2300
2280
2260
2240
2220
2200
2180
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
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6128. 2
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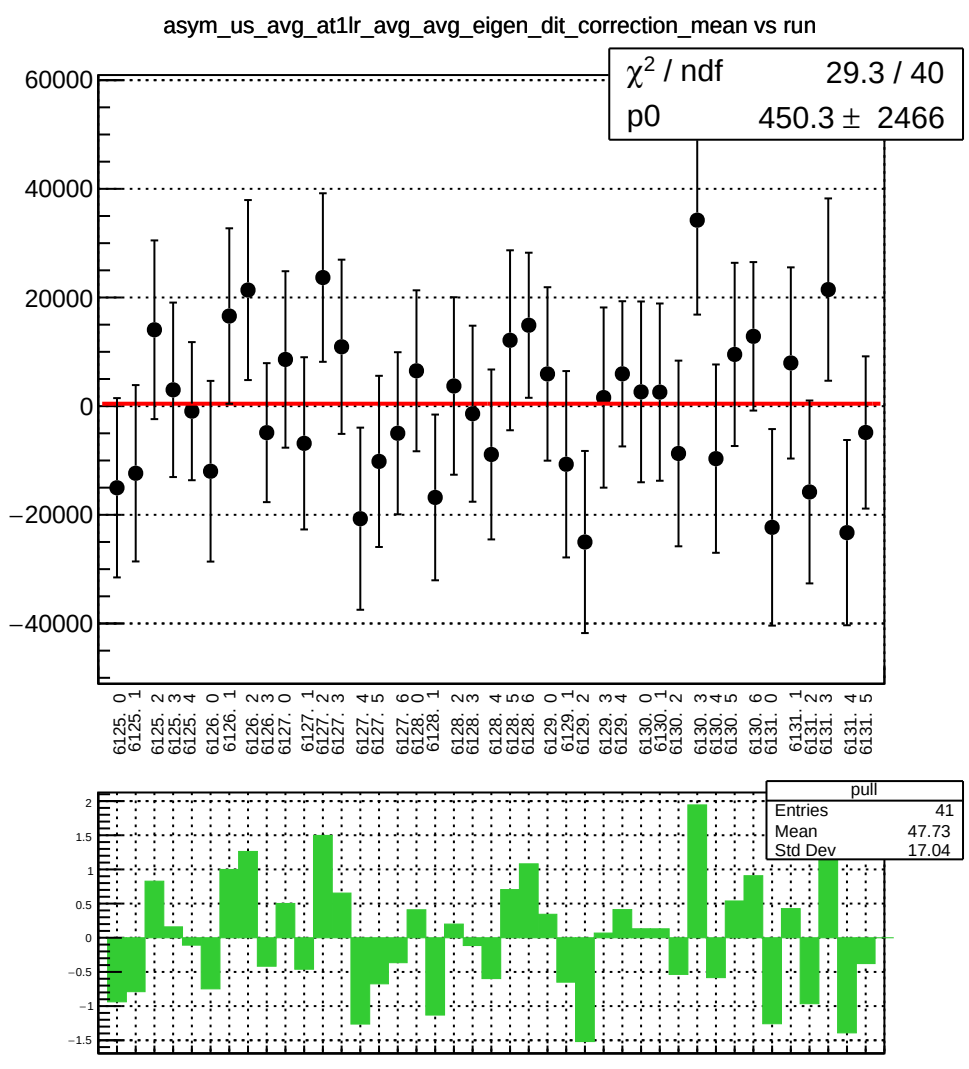
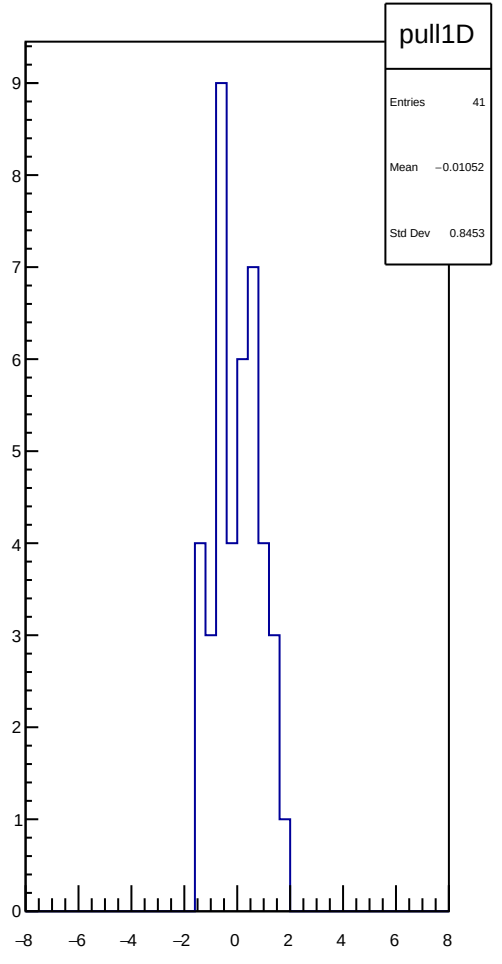
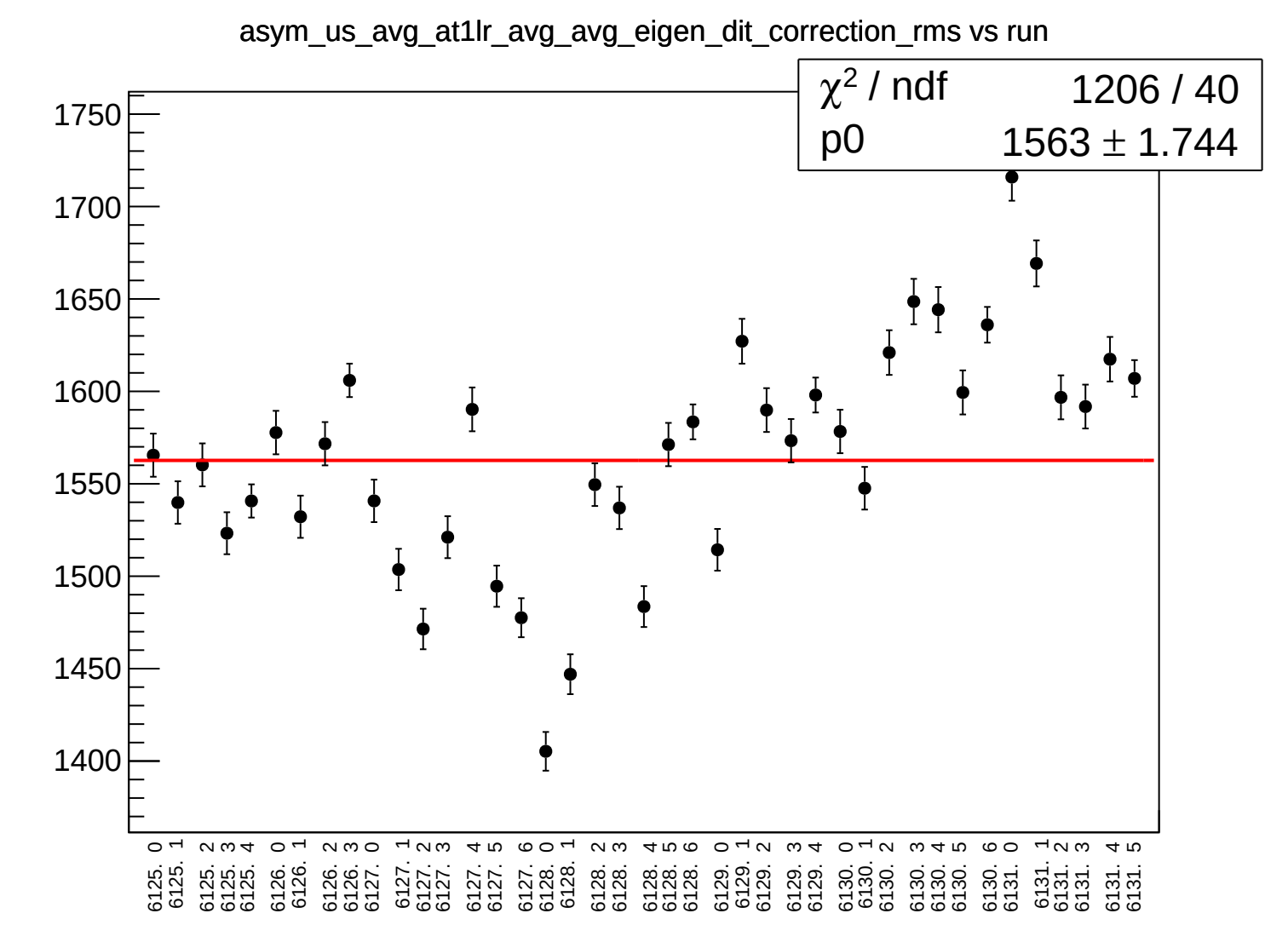
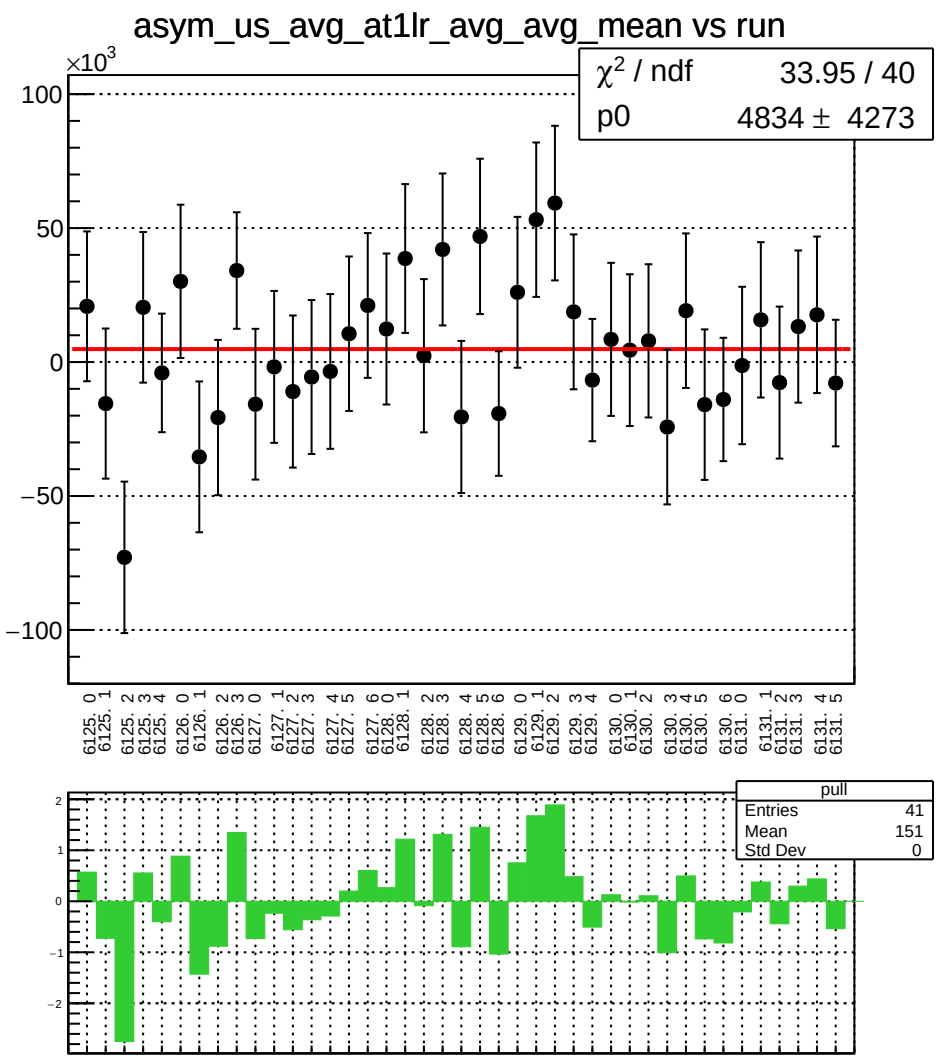
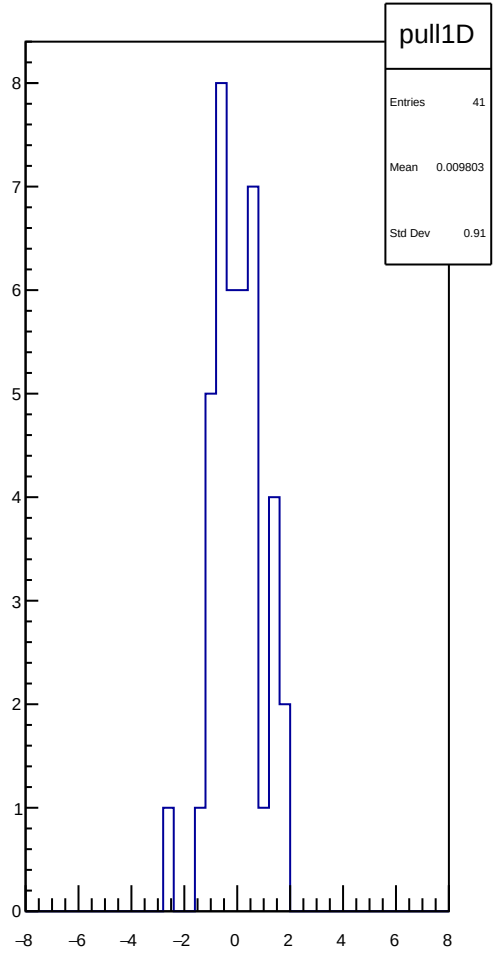
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

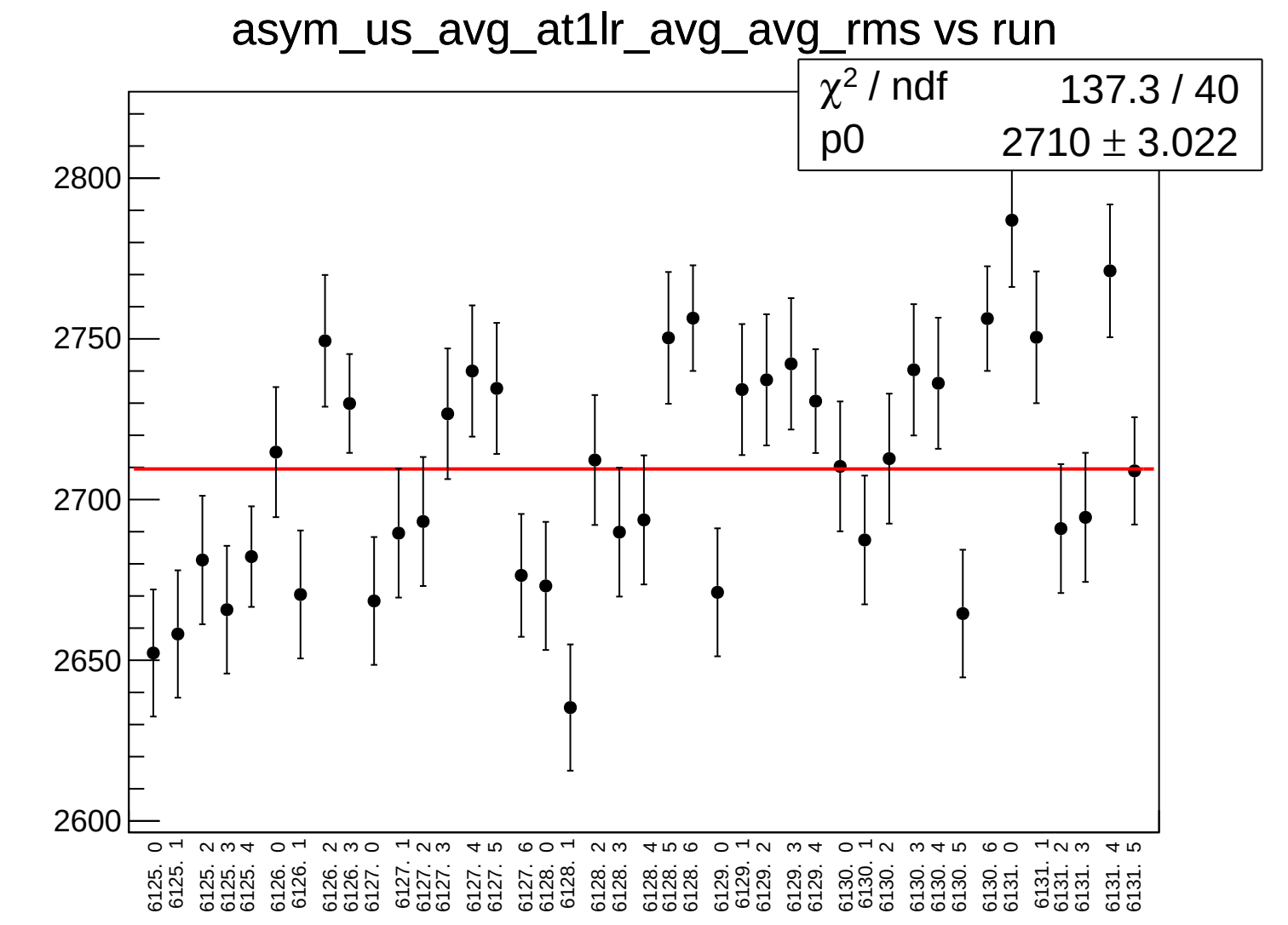

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 29.3 / 40
p0 450.3 ± 2466
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 47.73
Std Dev 17.04
2
1.5
1
0.5
0
−0.5
−1
−1.5

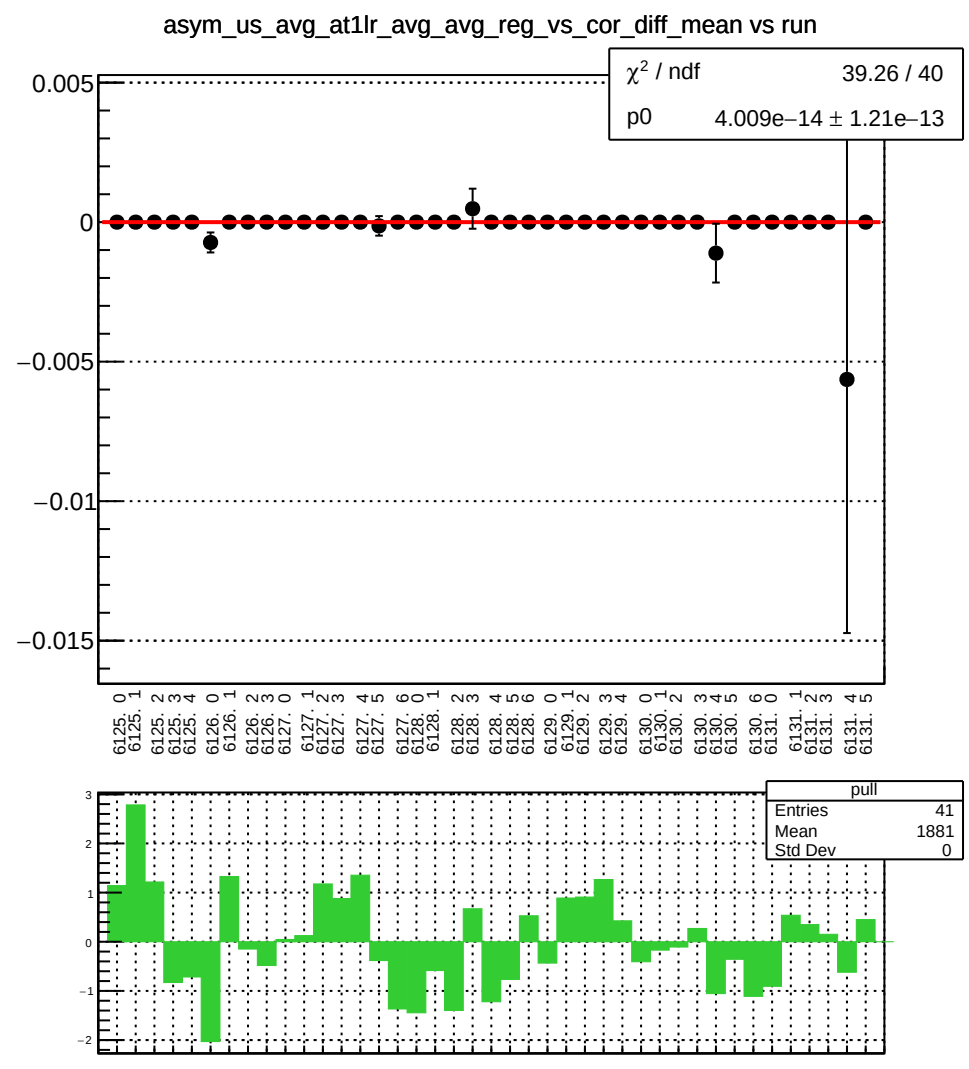

pull1D
Entries 41
Mean −0.01052
Std Dev 0.8453
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

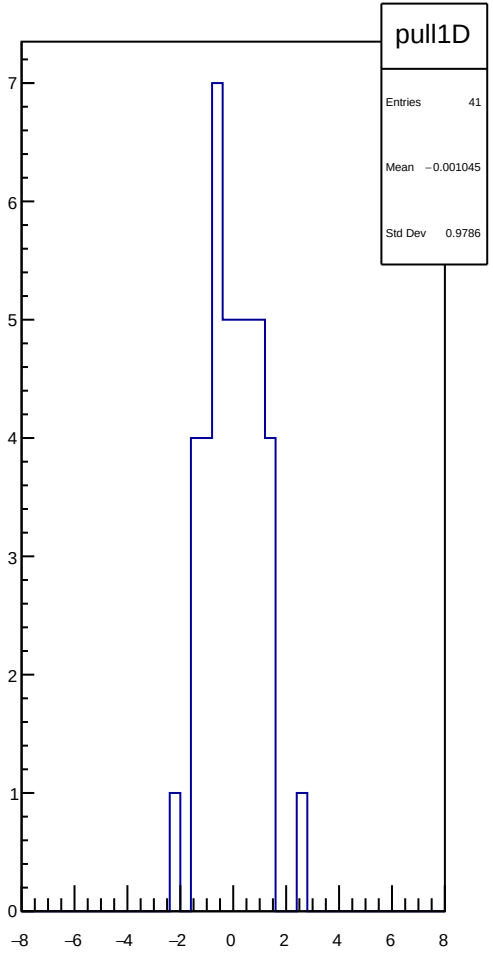

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1206 / 40
p0 1563 ± 1.744
1750
1700
1650
1600
1550
1500
1450
1400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

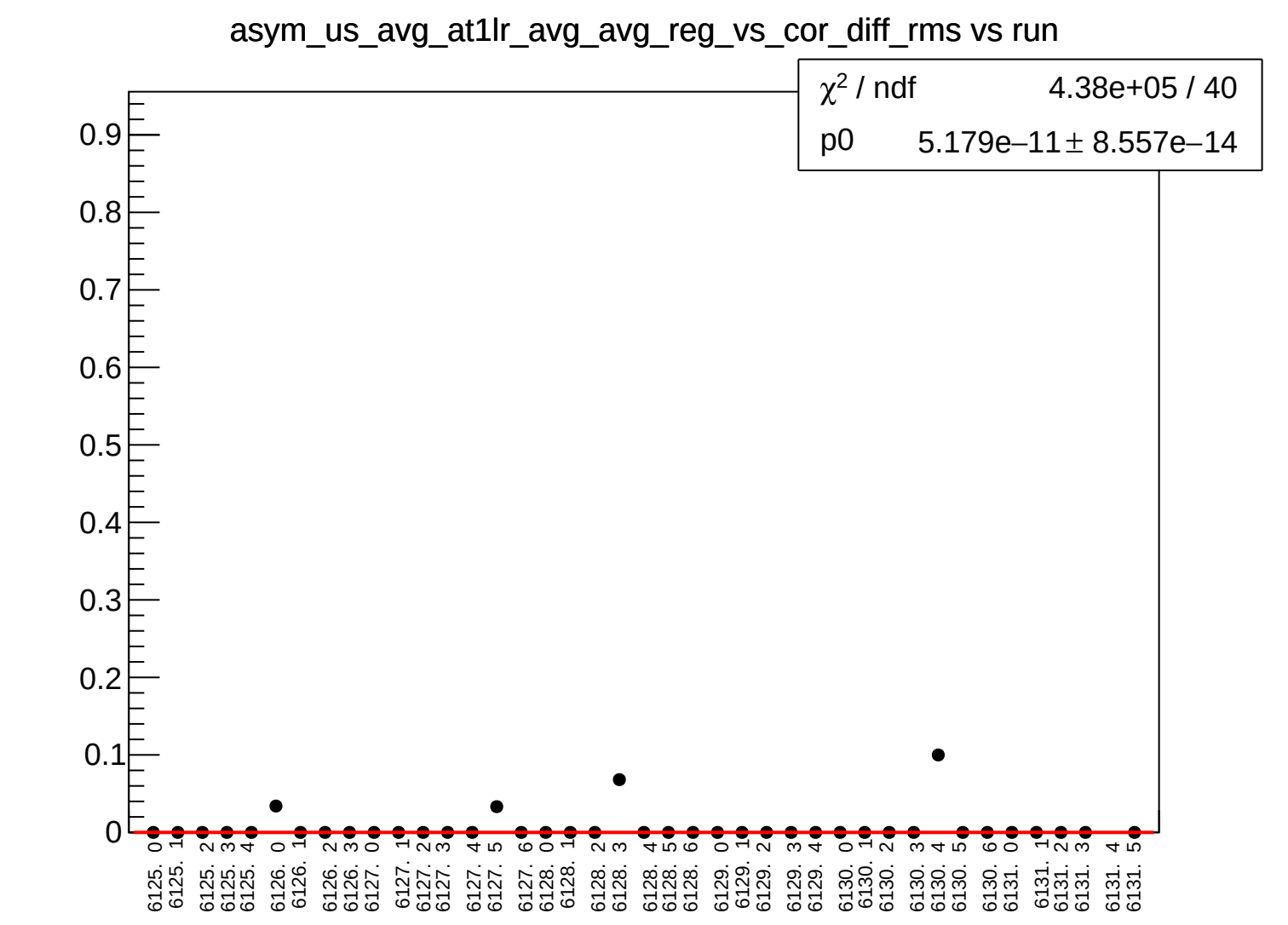

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 33.95 / 40
p0 4834 ± 4273
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 151
Std Dev 0
2
1
0
−1
−2

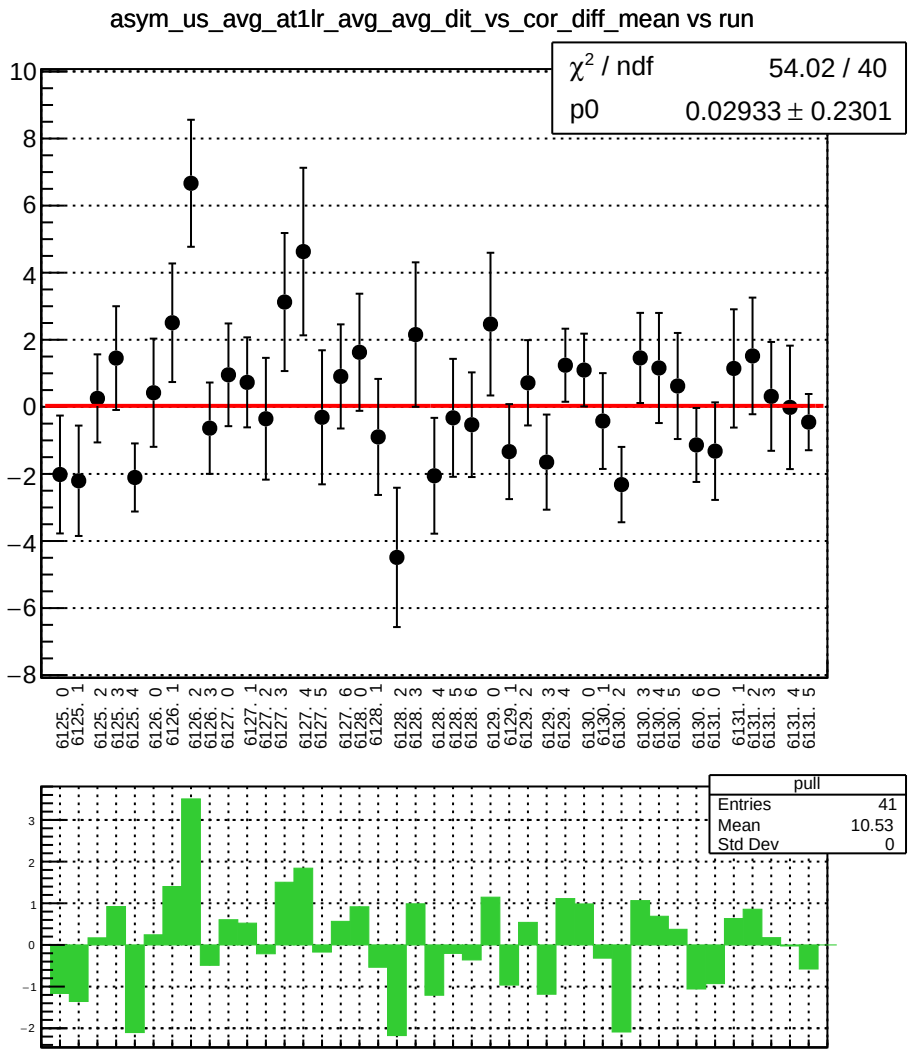

pull1D
Entries 41
Mean 0.009803
Std Dev 0.91
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

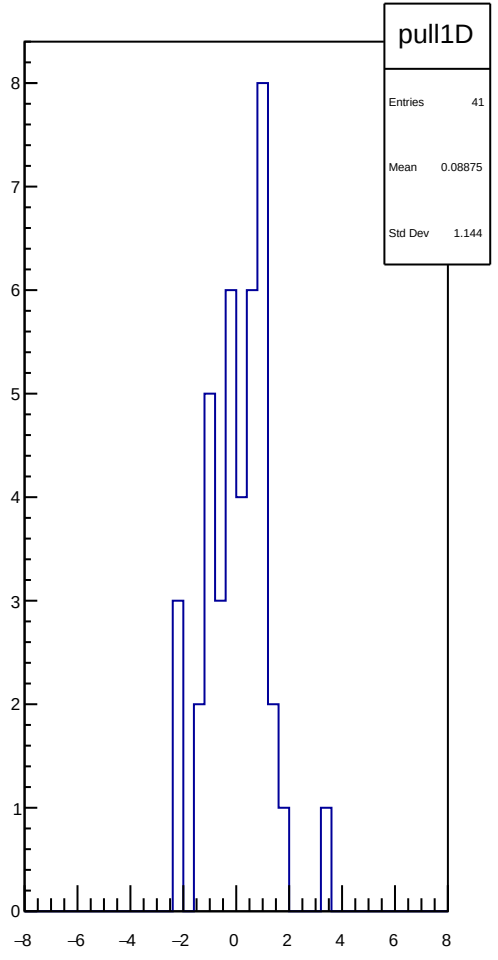

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 137.3 / 40
p0 2710 ± 3.022
2800
2750
2700
2650
2600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

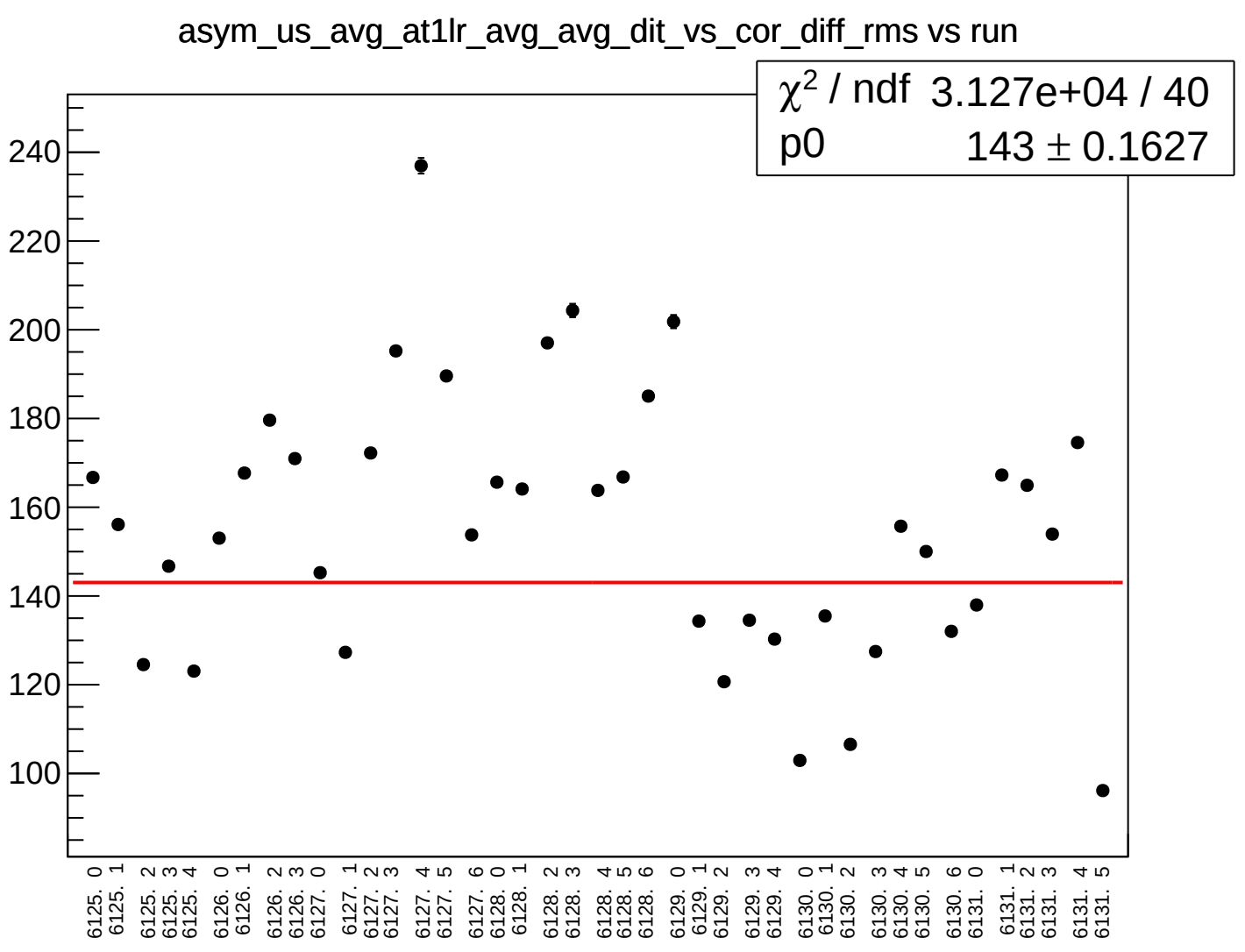

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 39.26 / 40
p0 4.009e−14 ± 1.21e−13
0.005
0
−0.005
−0.01
−0.015
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1881
Std Dev 0
3
2
1
0
−1
−2

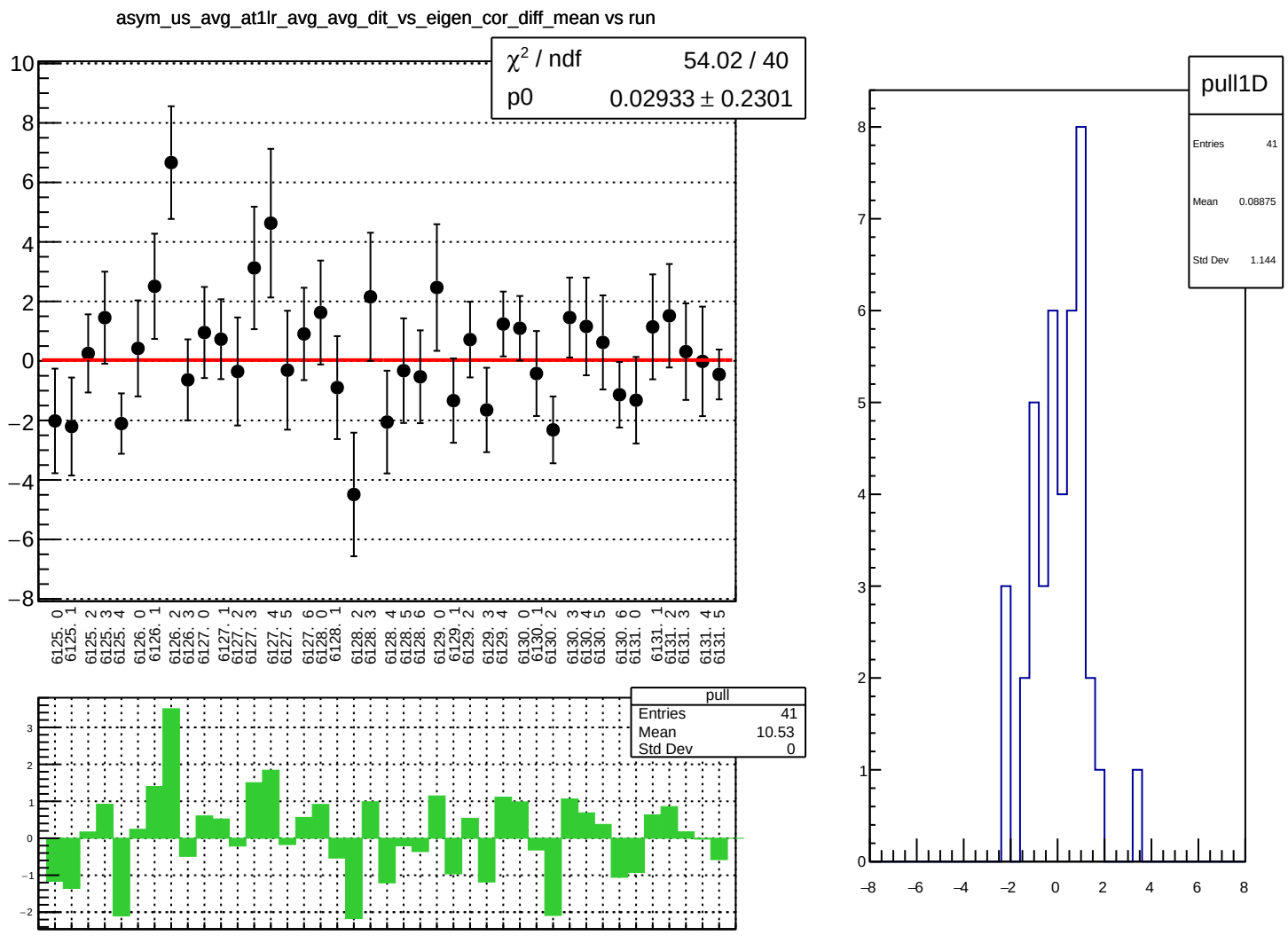

pull1D
Entries 41
Mean −0.001045
Std Dev 0.9786
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

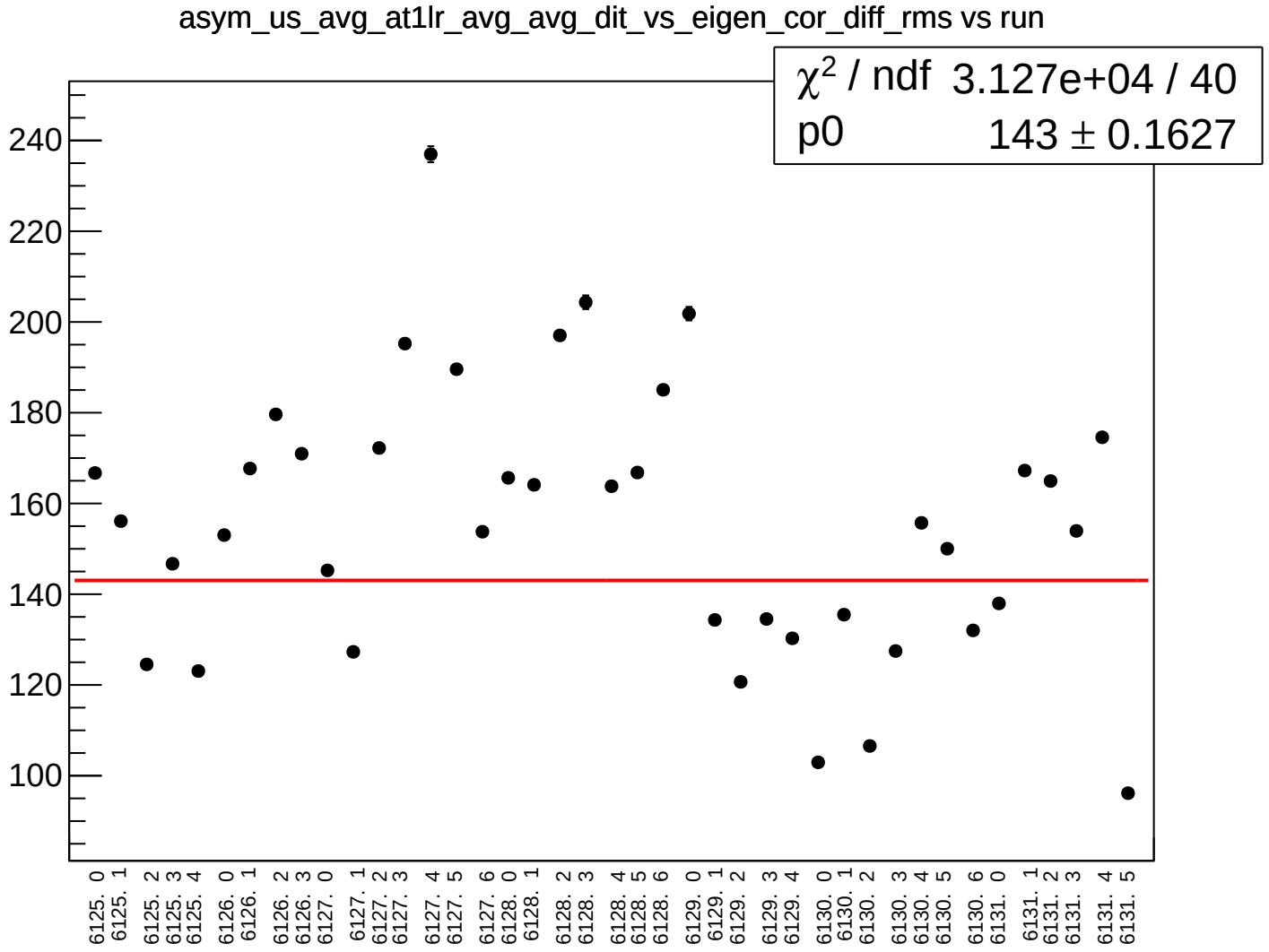

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.38e+05 / 40
p0 5.179e−11 ± 8.557e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

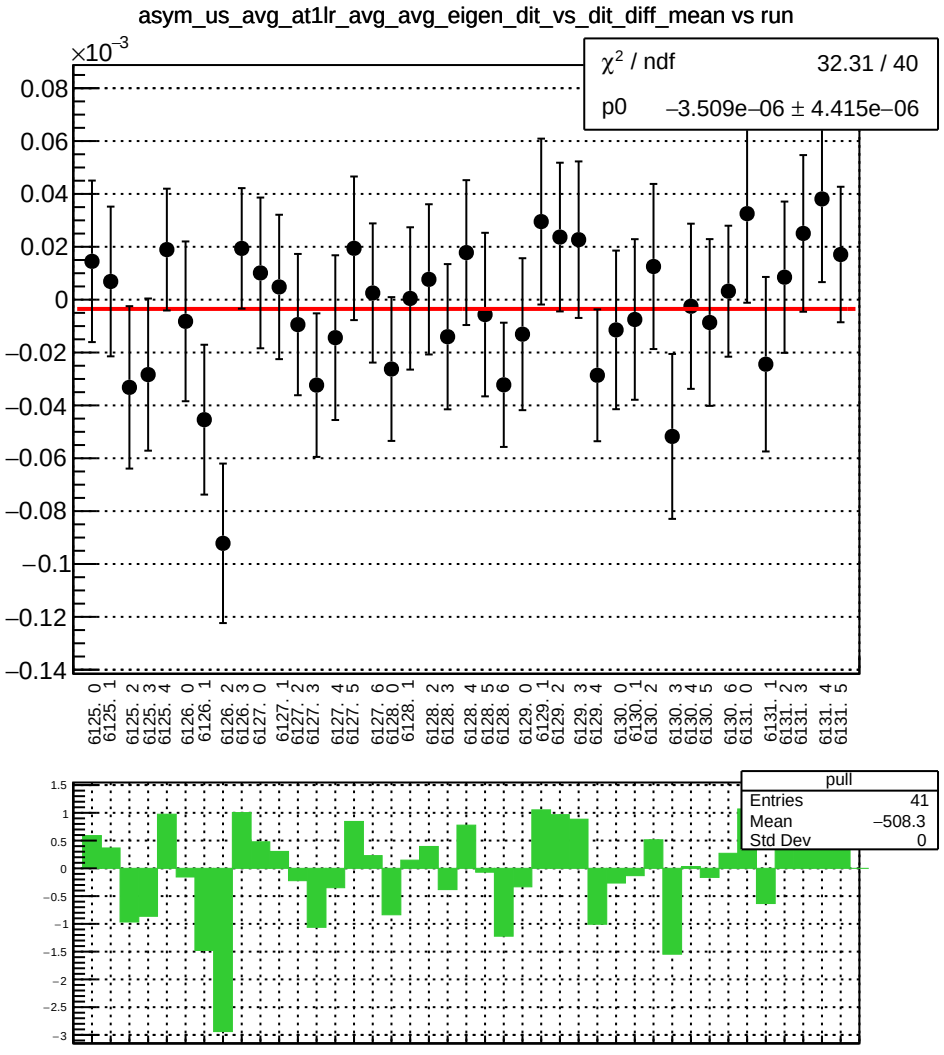

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 54.02 / 40
p0 0.02933 ± 0.2301
pull
Entries 41
Mean 10.53
Std Dev 0

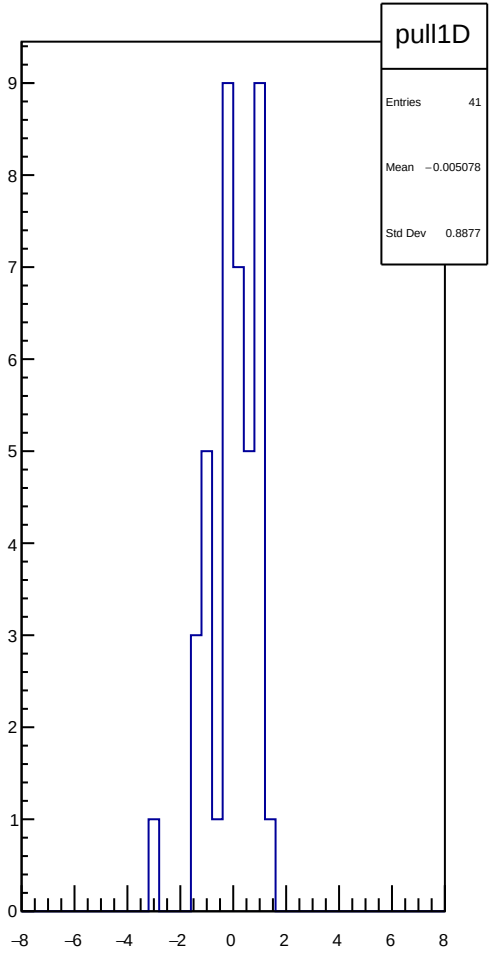

pull1D
Entries 41
Mean 0.08875
Std Dev 1.144

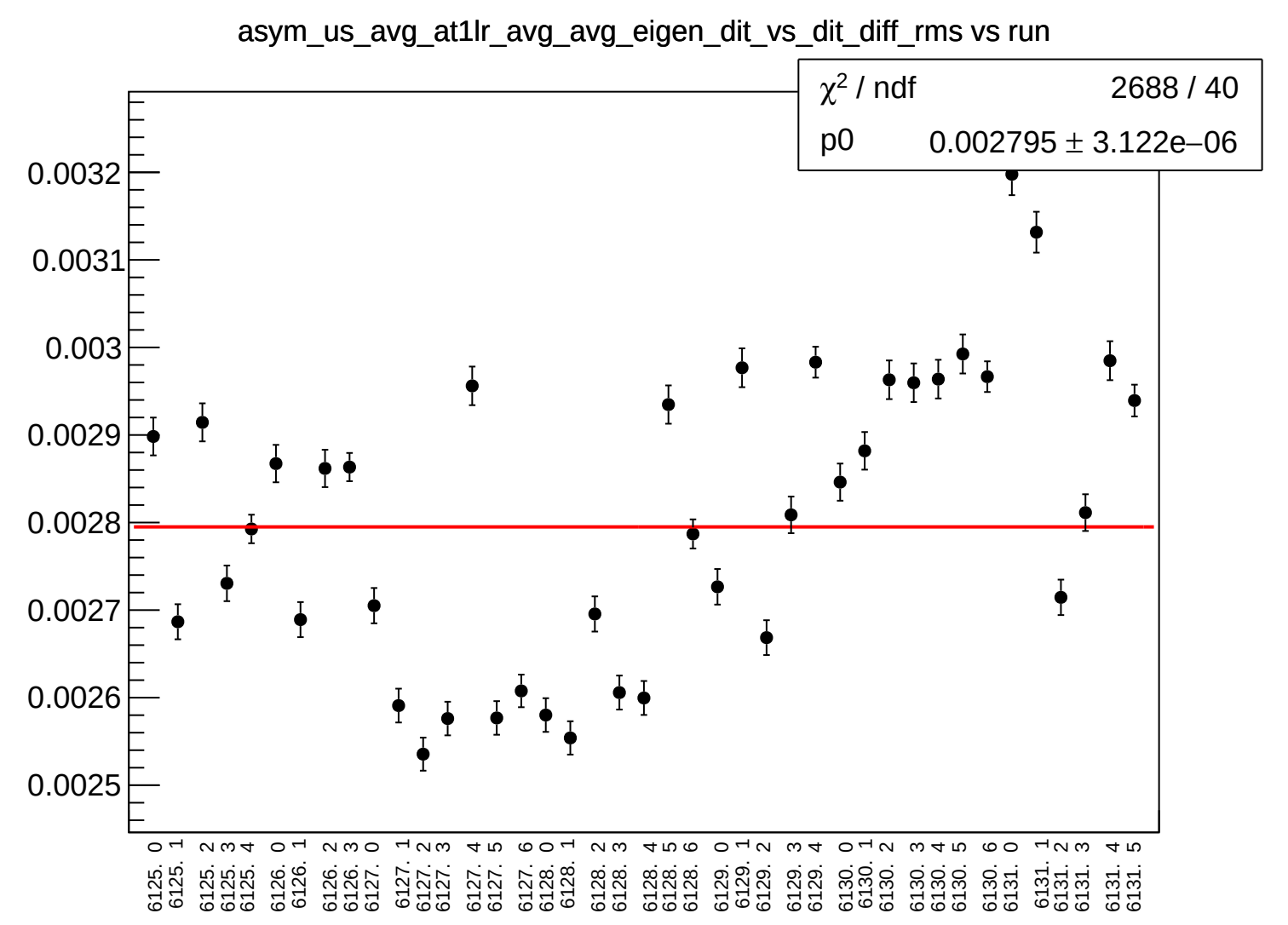

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.127e+04 / 40
p0 143 ± 0.1627
240
220
200
180
160
140
120
100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

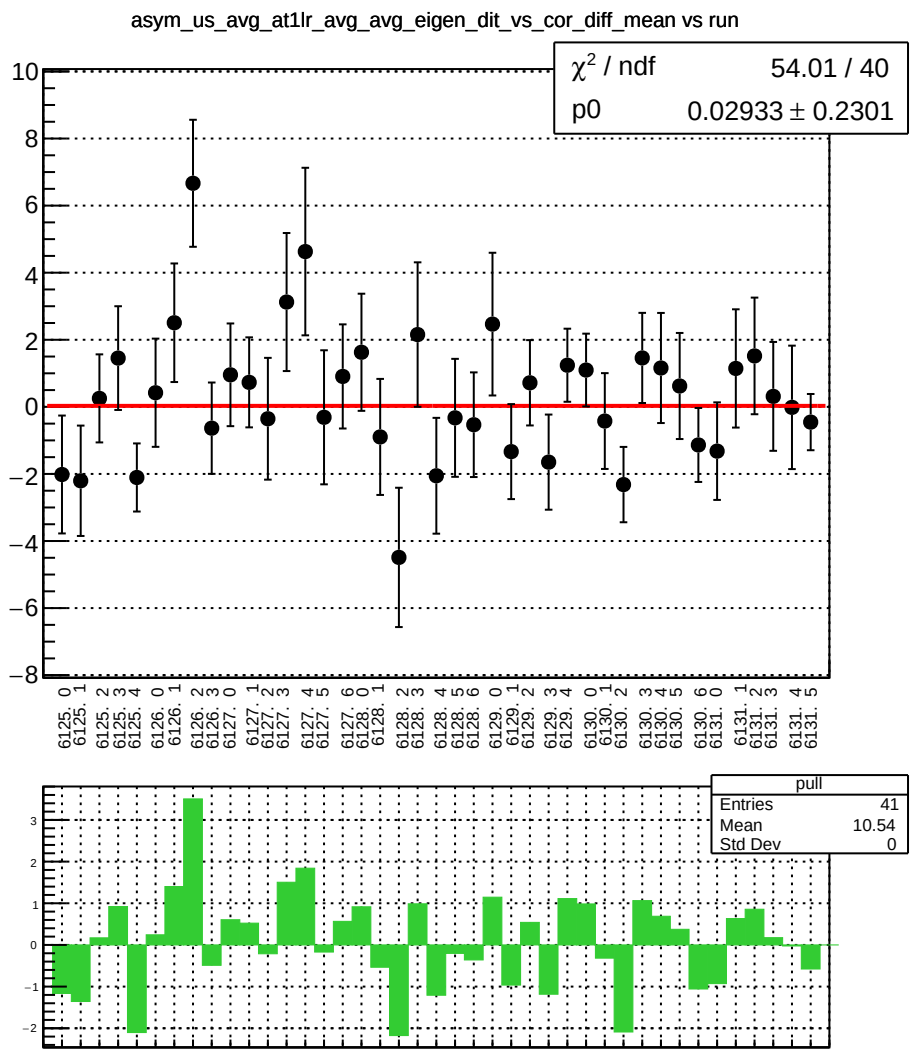

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.02 / 40
p0 0.02933 ± 0.2301
pull
Entries 41
Mean 10.53
Std Dev 0
pull1D
Entries 41
Mean 0.08875
Std Dev 1.144

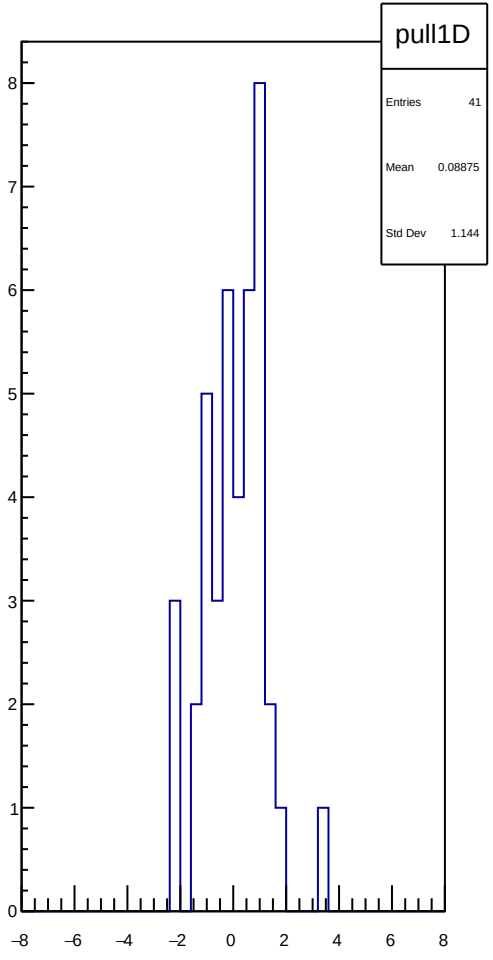

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.127e+04 / 40
p0 143 ± 0.1627
240
220
200
180
160
140
120
100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

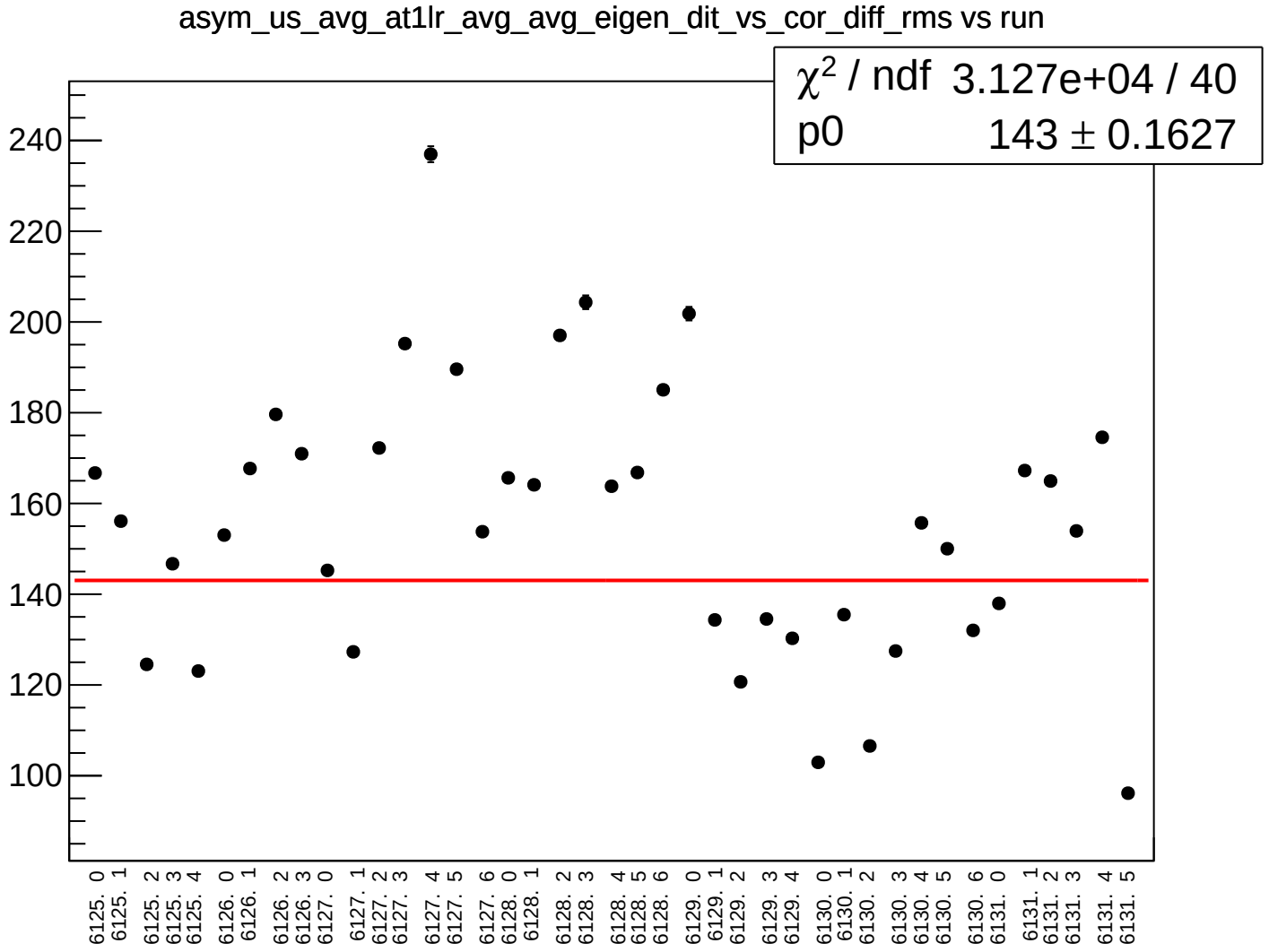

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 32.31 / 40
p0 −3.509e−06 ± 4.415e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −508.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

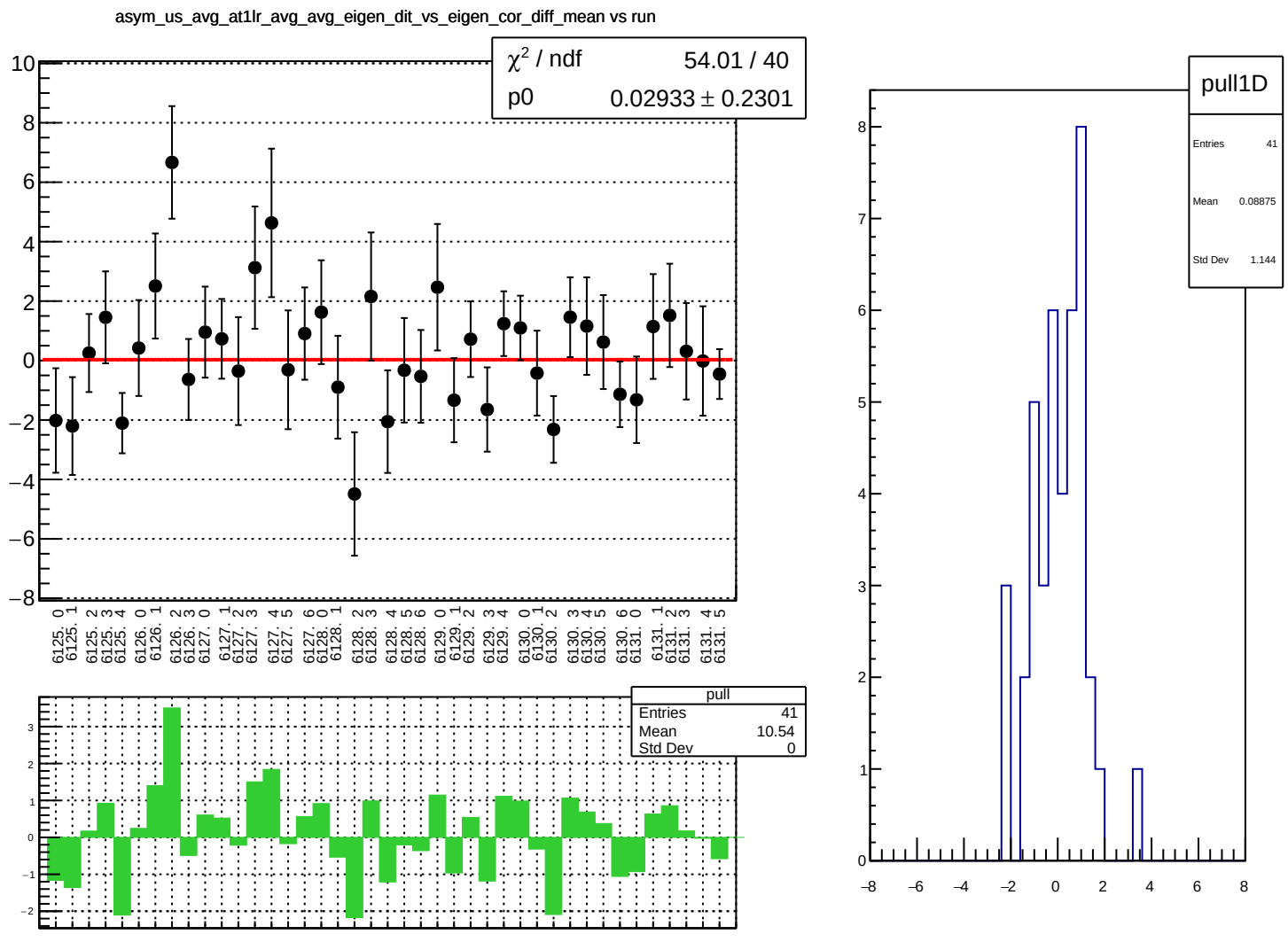

pull1D
Entries 41
Mean −0.005078
Std Dev 0.8877
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

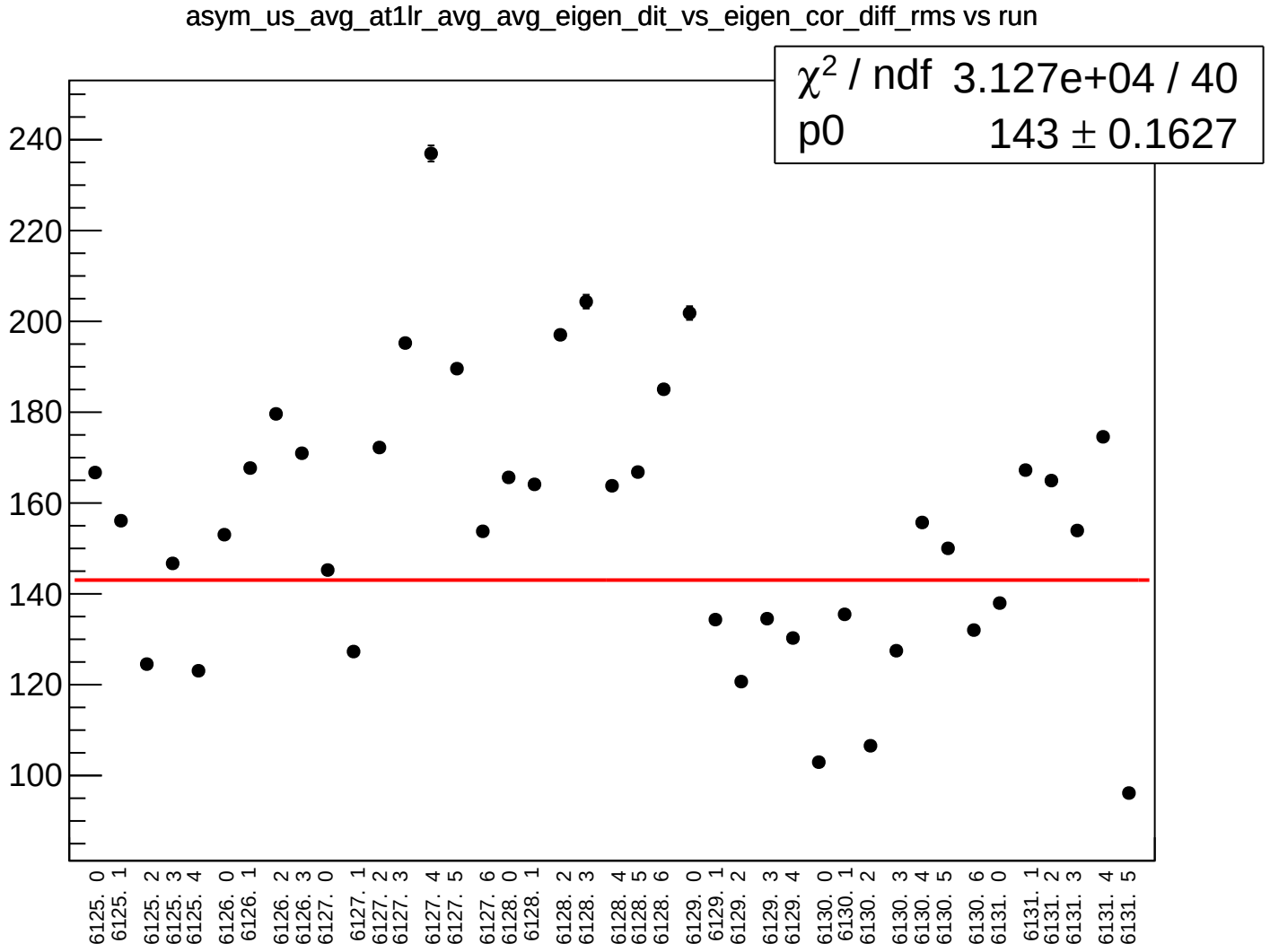

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2688 / 40
p0 0.002795 ± 3.122e−06
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

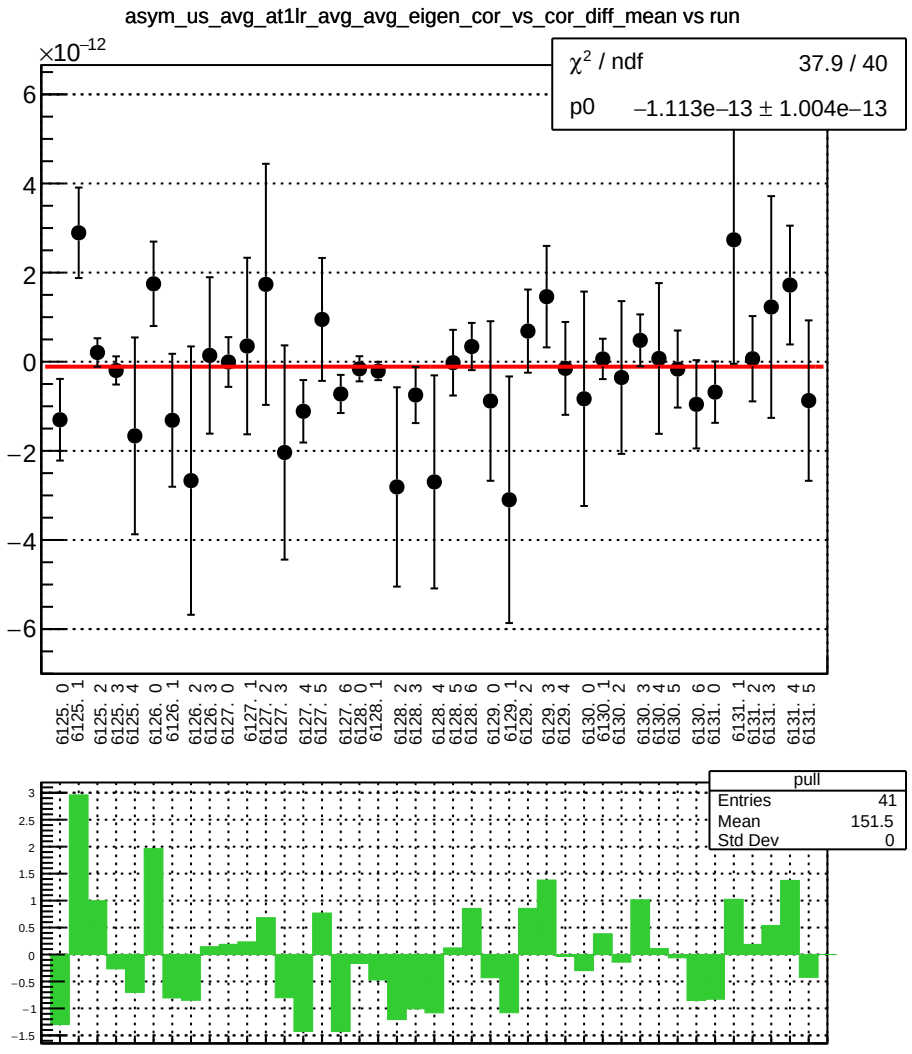

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 54.01 / 40
p0 0.02933 ± 0.2301
pull
Entries 41
Mean 10.54
Std Dev 0

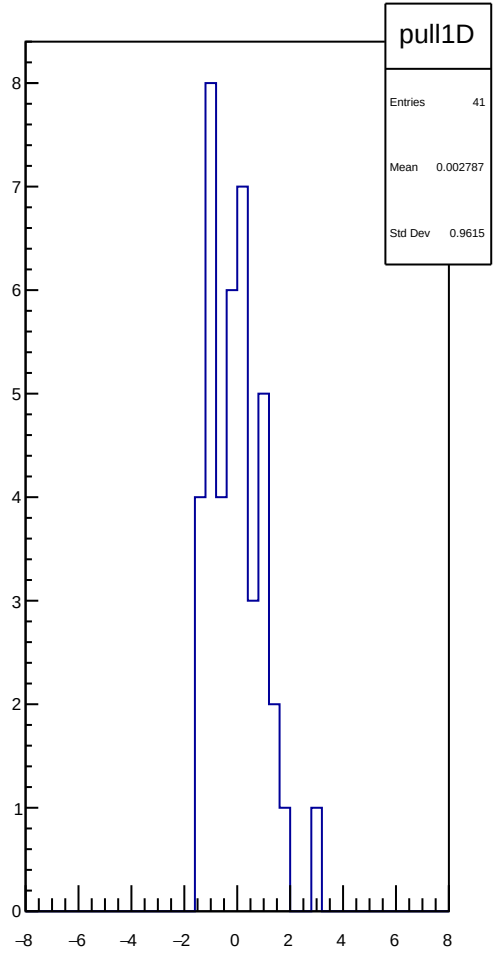

pull1D
Entries 41
Mean 0.08875
Std Dev 1.144

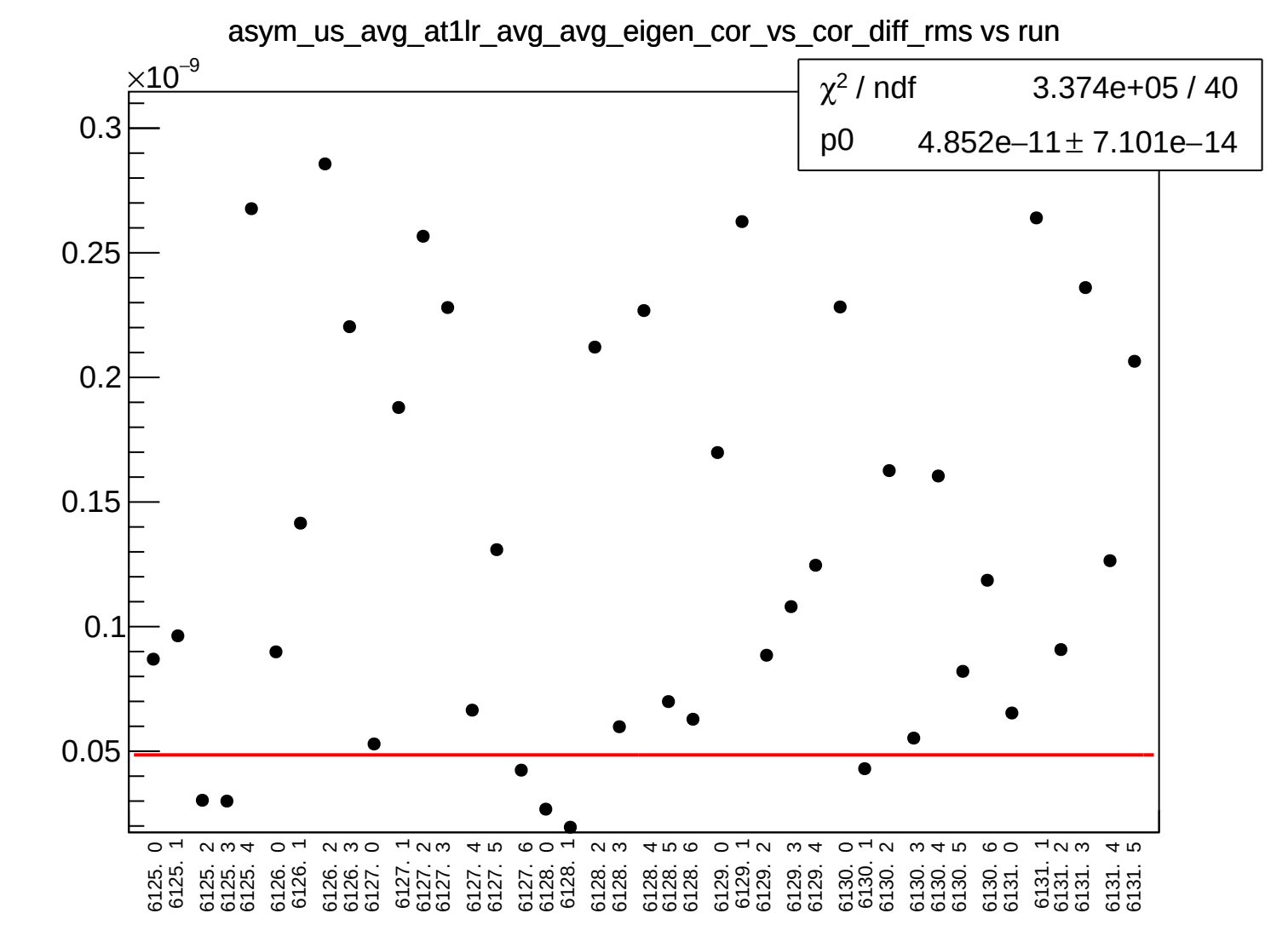

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.127e+04 / 40
p0 143 ± 0.1627
240
220
200
180
160
140
120
100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

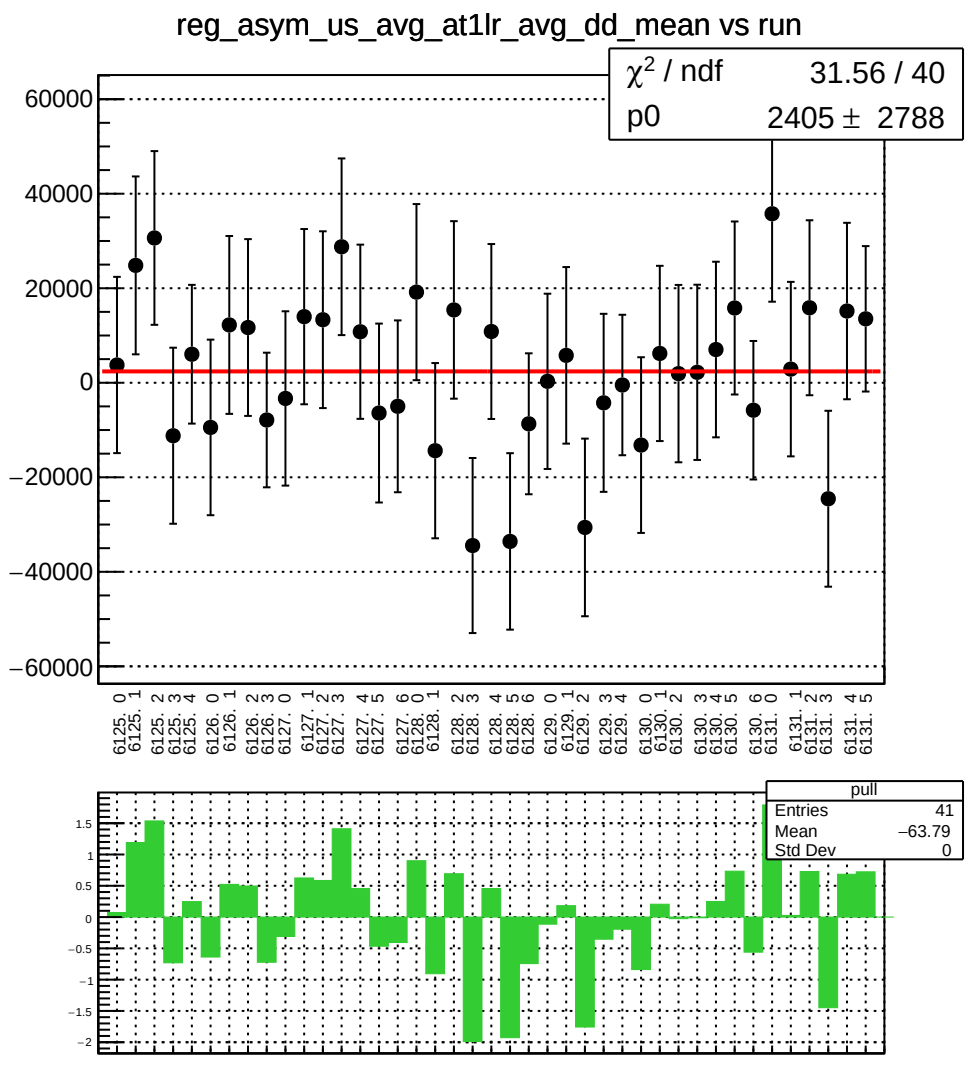

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.01 / 40
p0 0.02933 ± 0.2301
pull
Entries 41
Mean 10.54
Std Dev 0
pull1D
Entries 41
Mean 0.08875
Std Dev 1.144

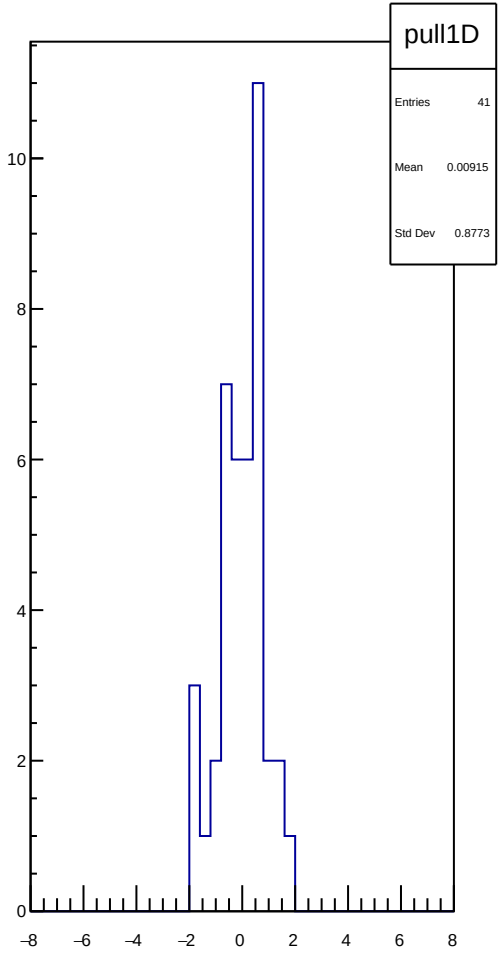

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.127e+04 / 40
p0 143 ± 0.1627
240
220
200
180
160
140
120
100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

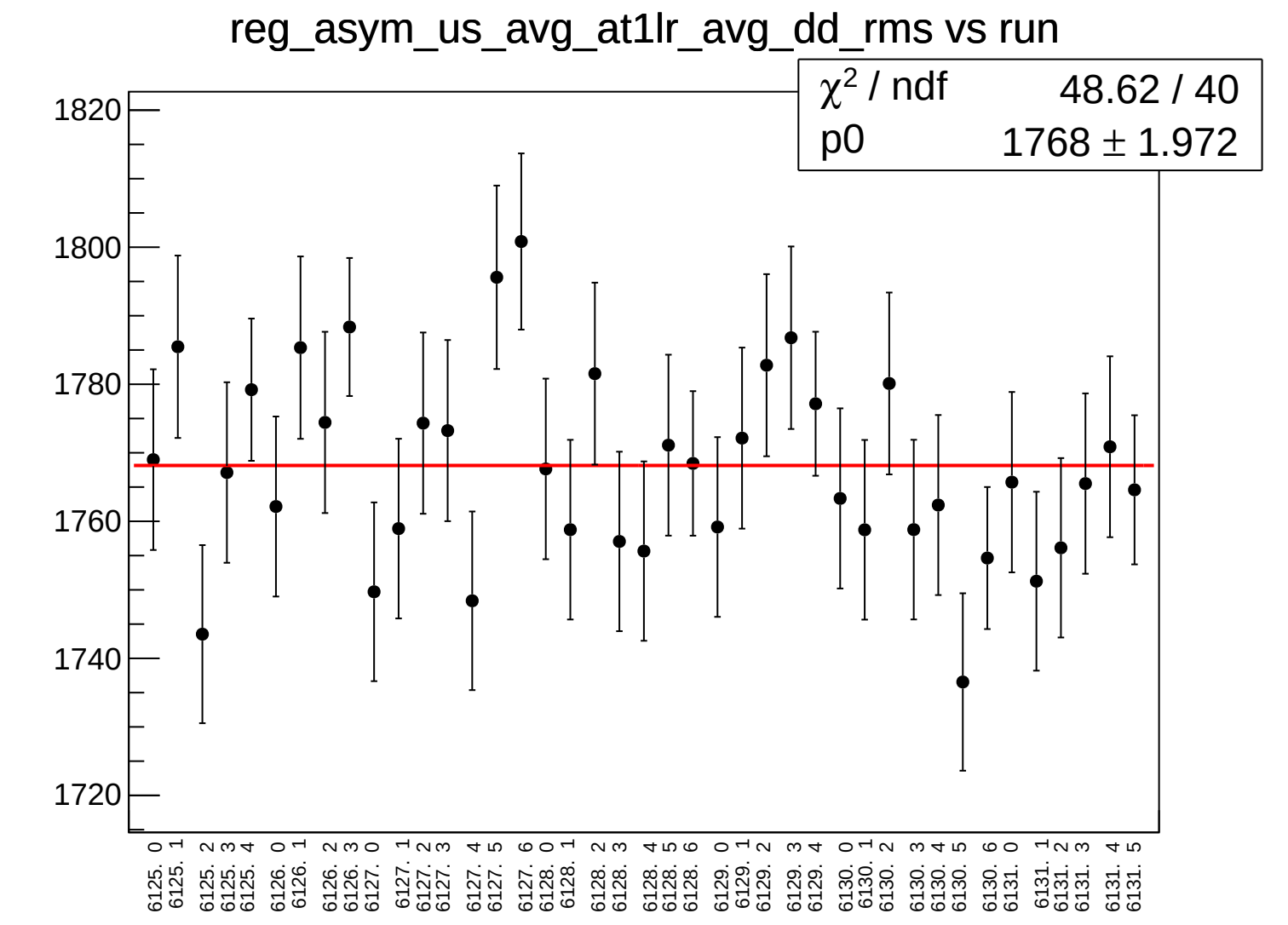

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 37.9 / 40
p0 −1.113e−13 ± 1.004e−13
pull
Entries 41
Mean 151.5
Std Dev 0

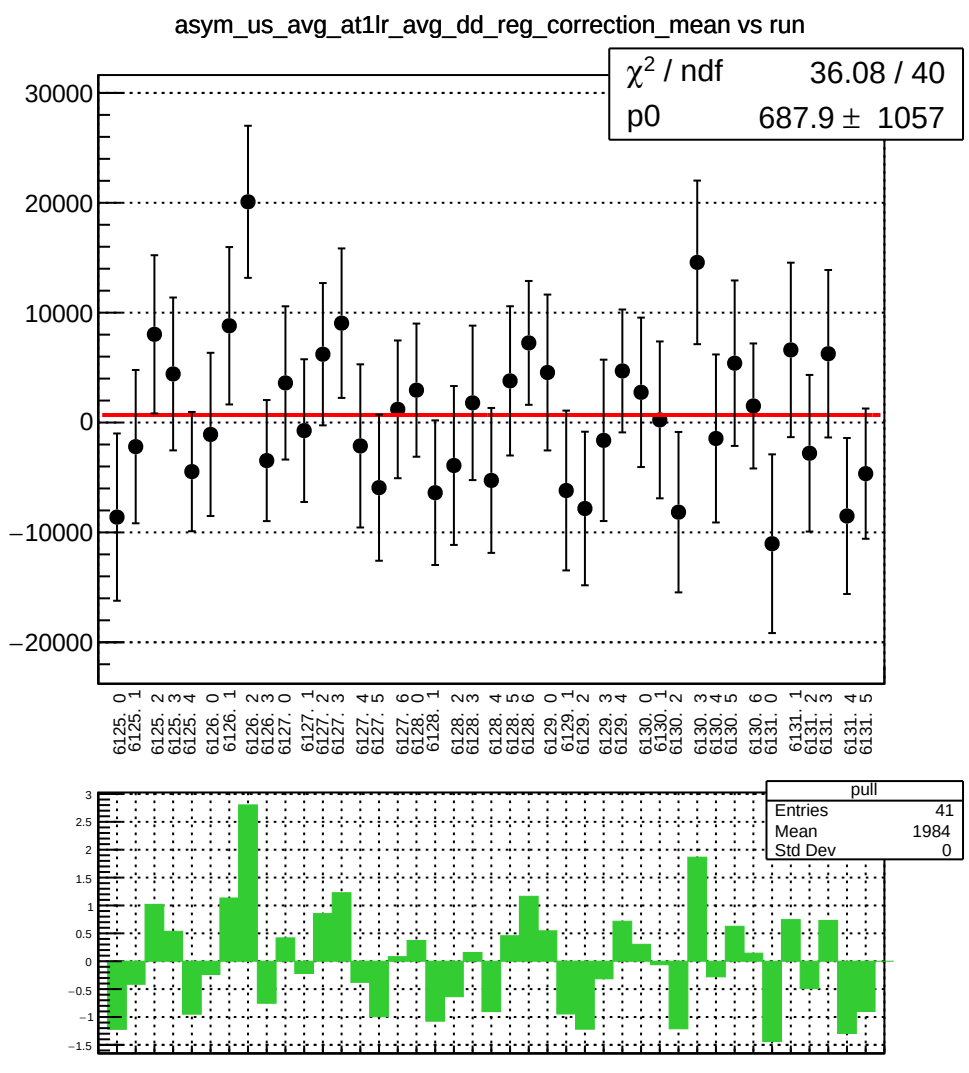

pull1D
Entries 41
Mean 0.002787
Std Dev 0.9615

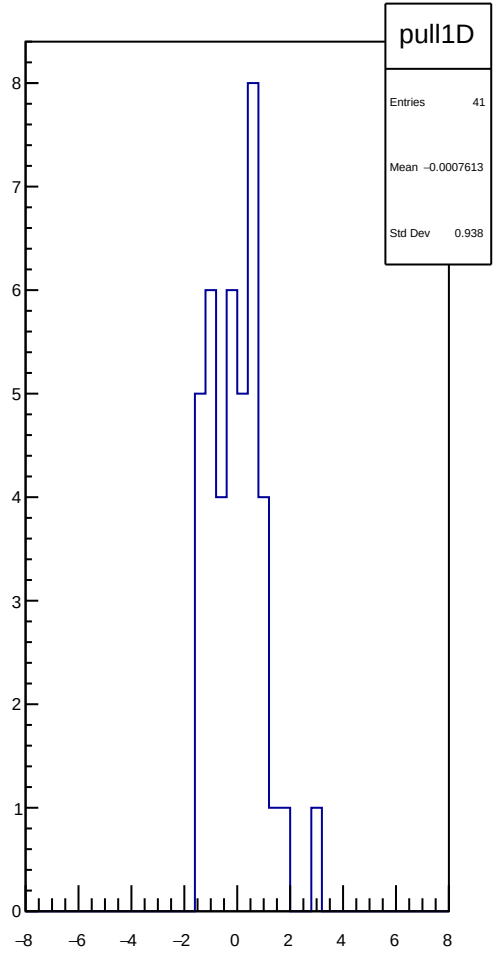

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.374e+05 / 40
p0 4.852e−11 ± 7.101e−14
0.3
0.25
0.2
0.15
0.1
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

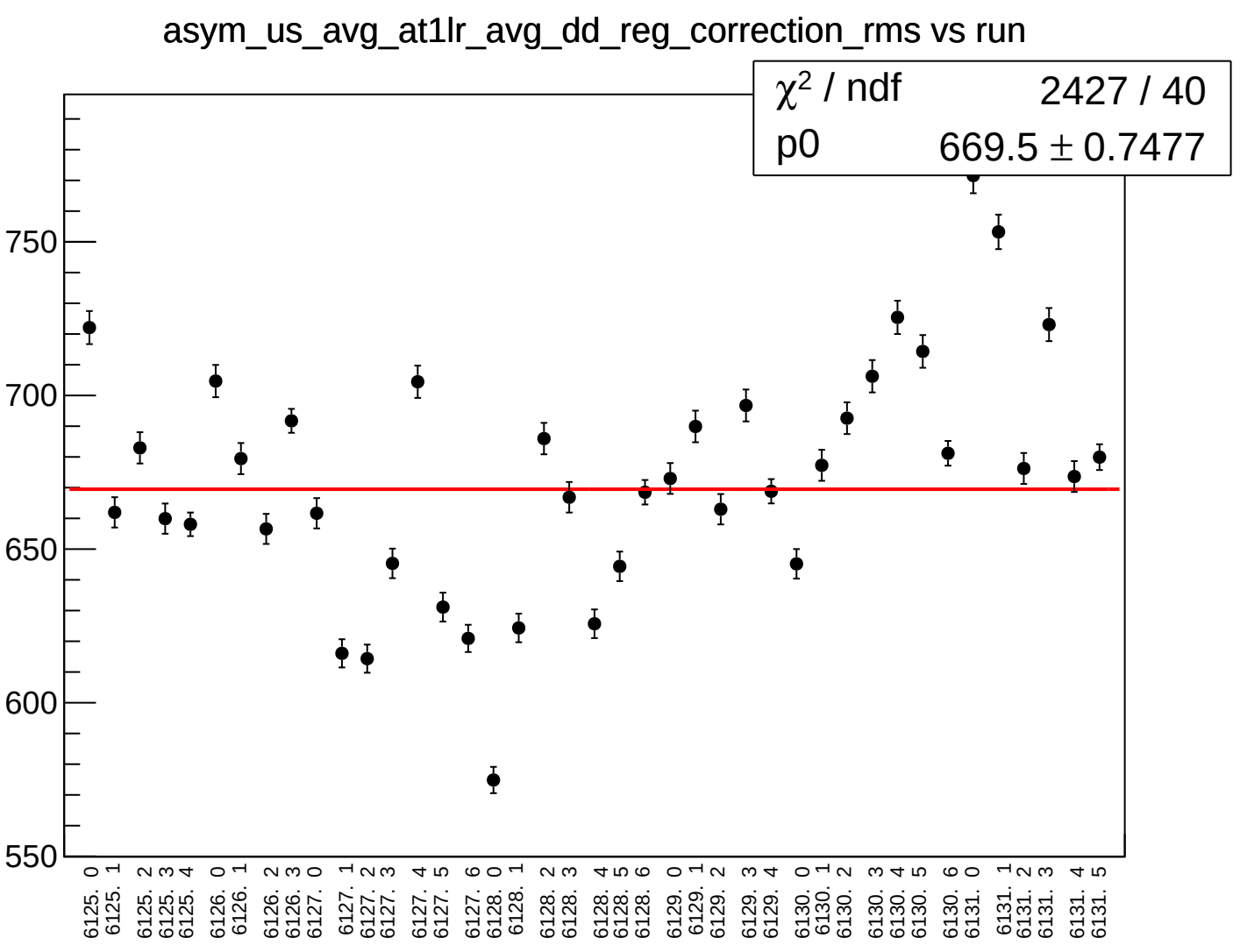

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 31.56 / 40
p0 2405 ± 2788
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −63.79
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

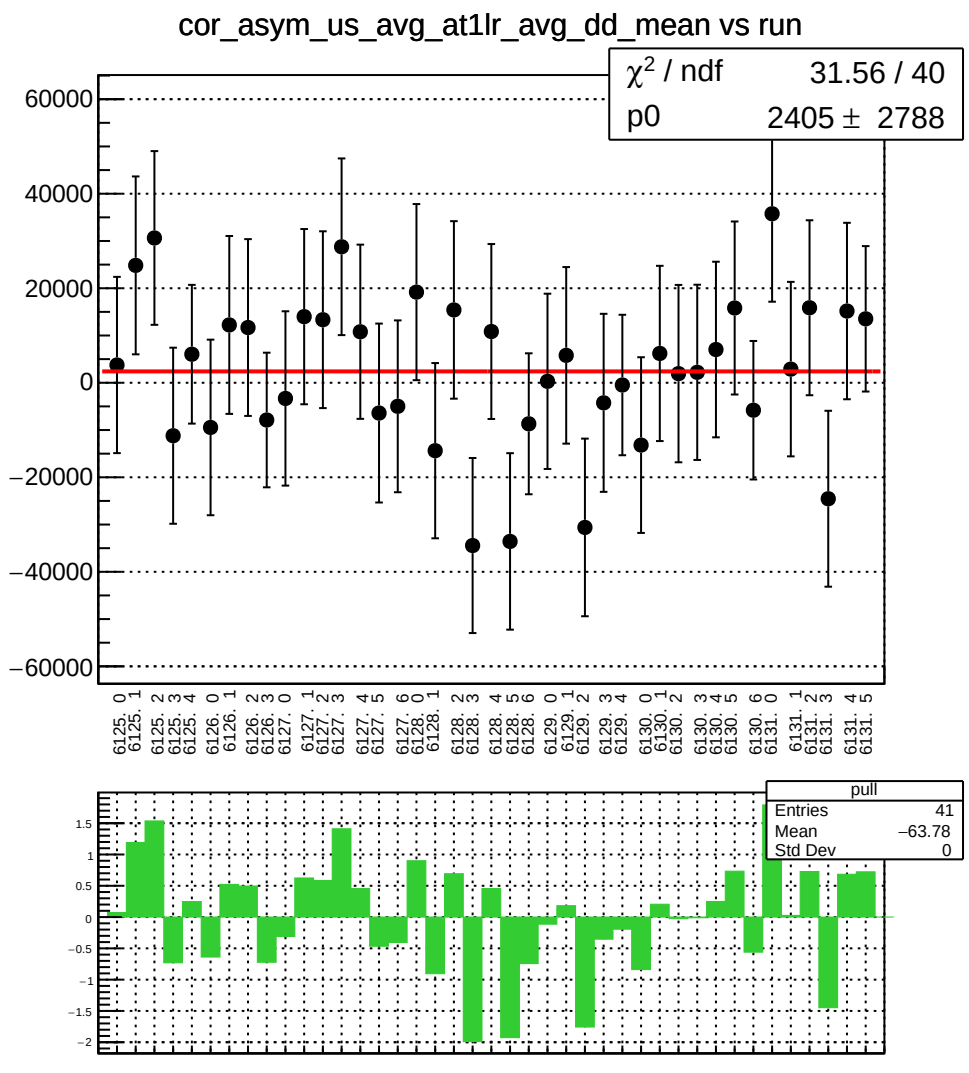

pull1D
Entries 41
Mean 0.00915
Std Dev 0.8773
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

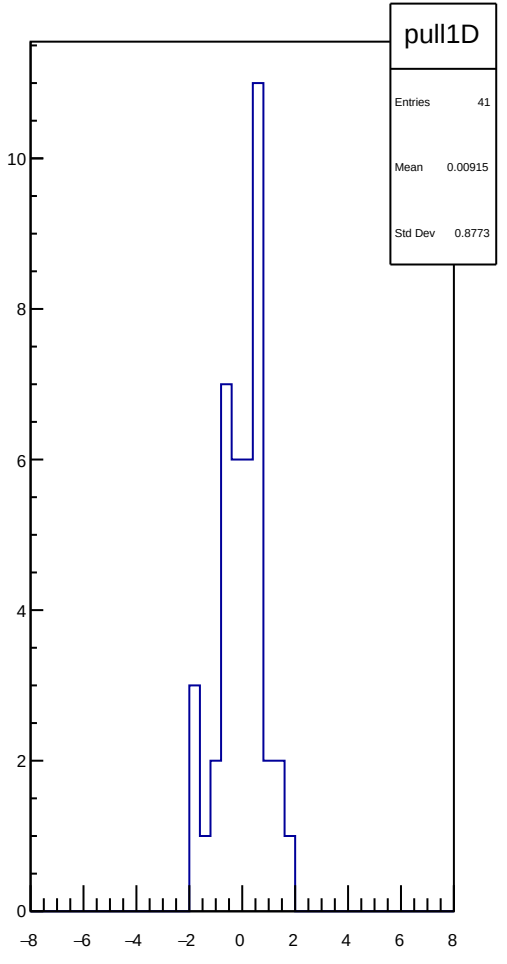

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 48.62 / 40
p0 1768 ± 1.972
1820
1800
1780
1760
1740
1720
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

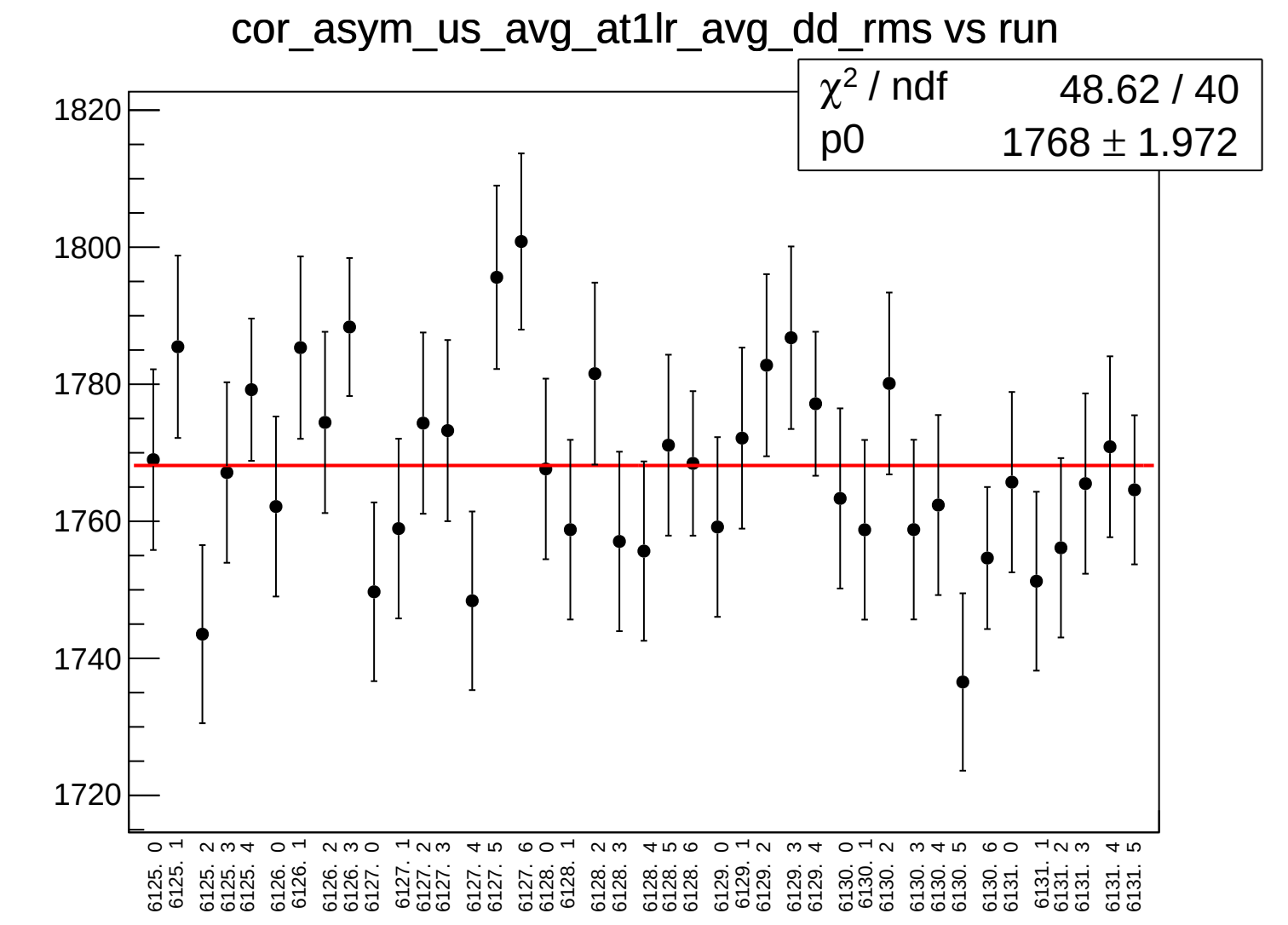

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 36.08 / 40
p0 687.9 ± 1057
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6126. 4
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1984
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

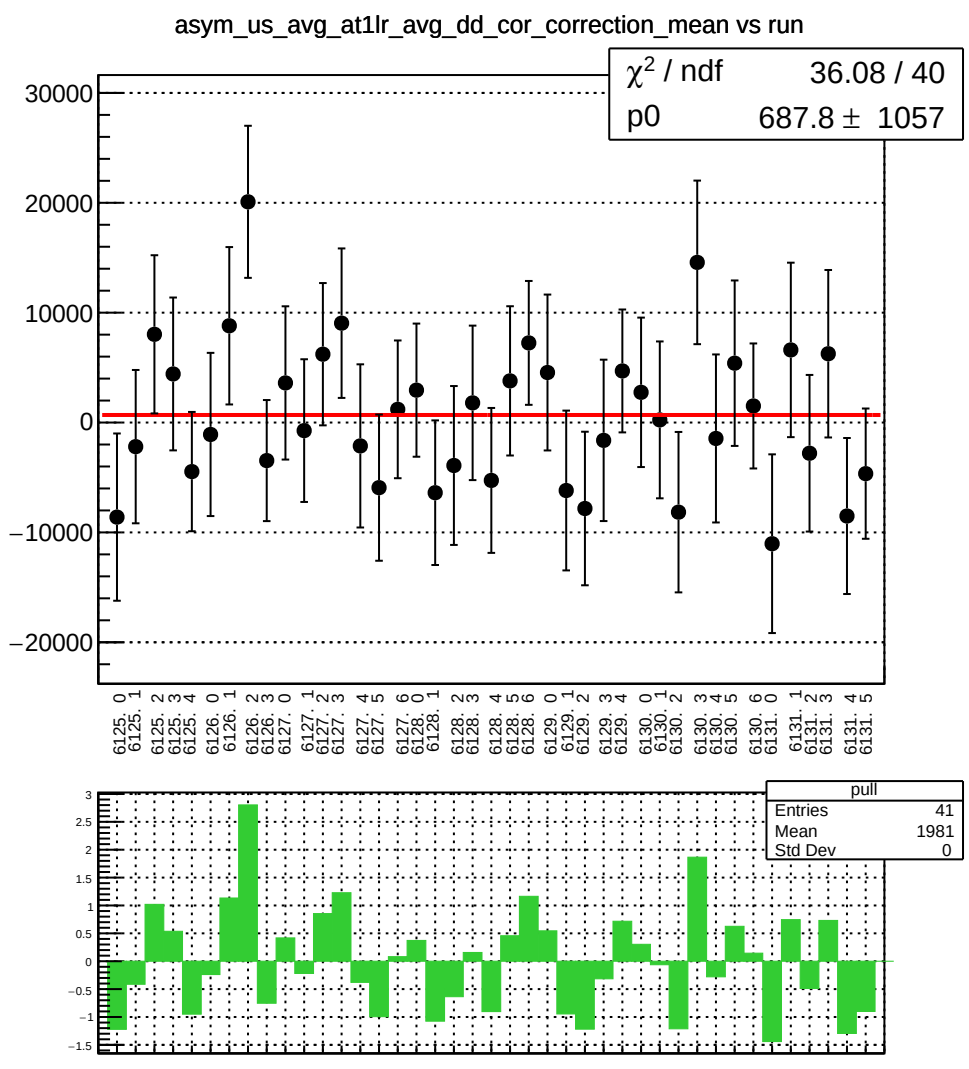

pull1D
Entries 41
Mean −0.0007613
Std Dev 0.938
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

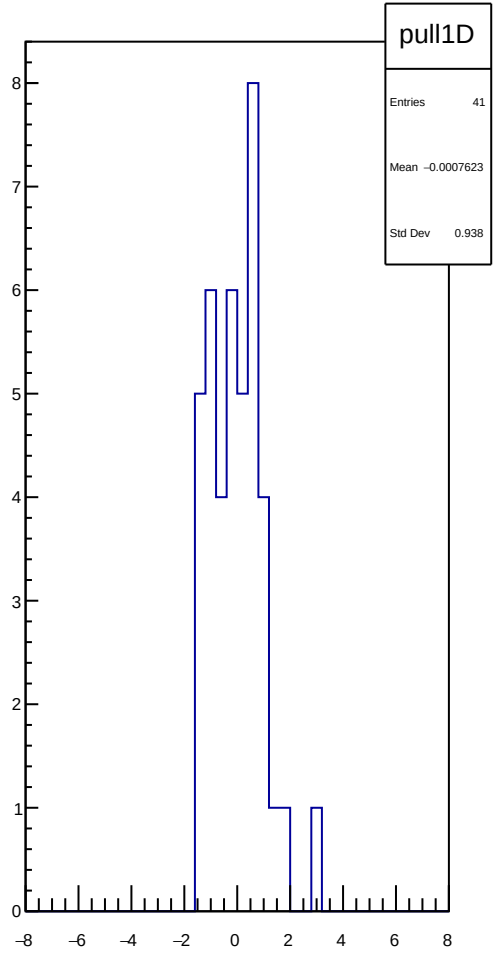

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 2427 / 40
p0 669.5 ± 0.7477
750
700
650
600
550
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

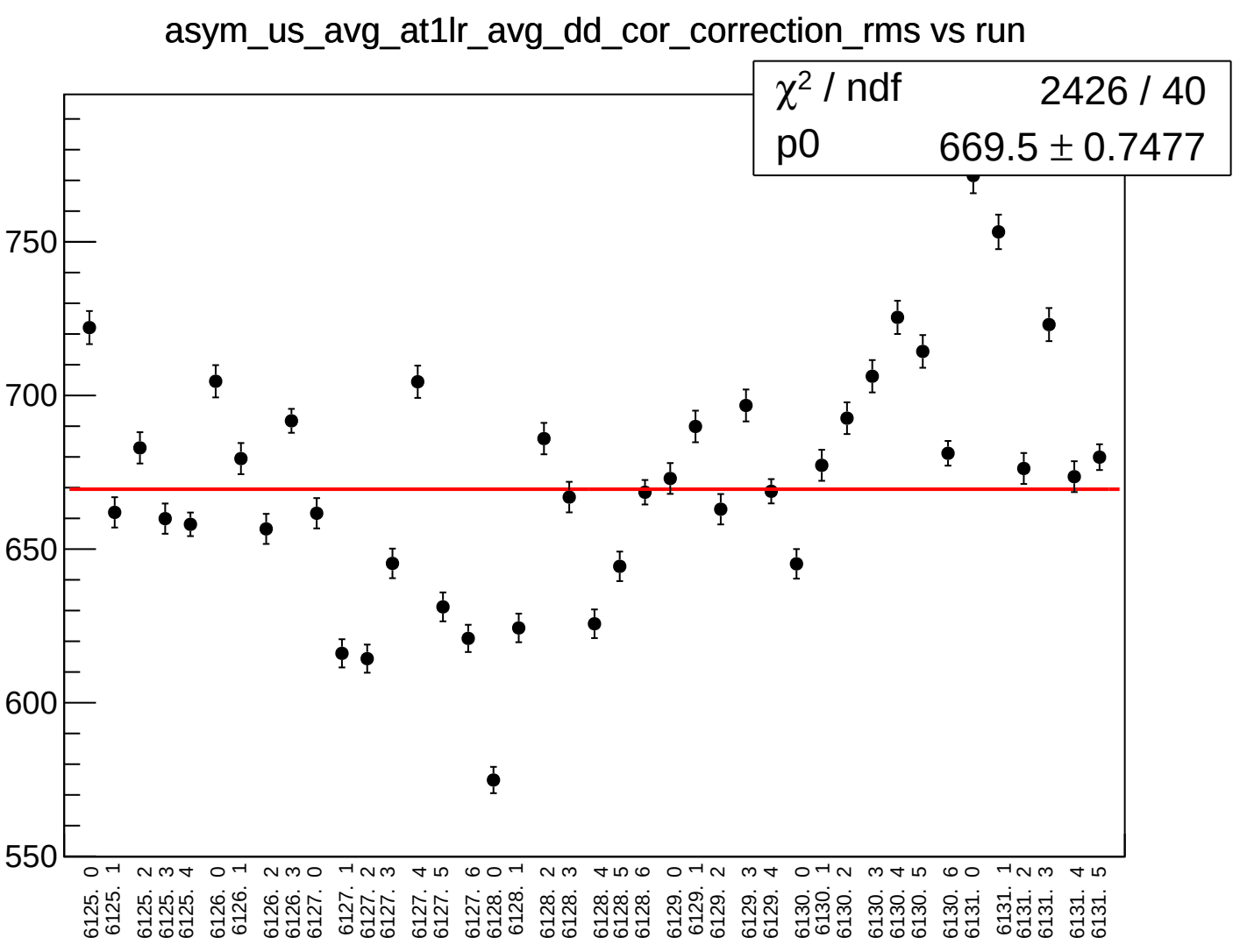

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 31.56 / 40
p0 2405 ± 2788
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −63.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

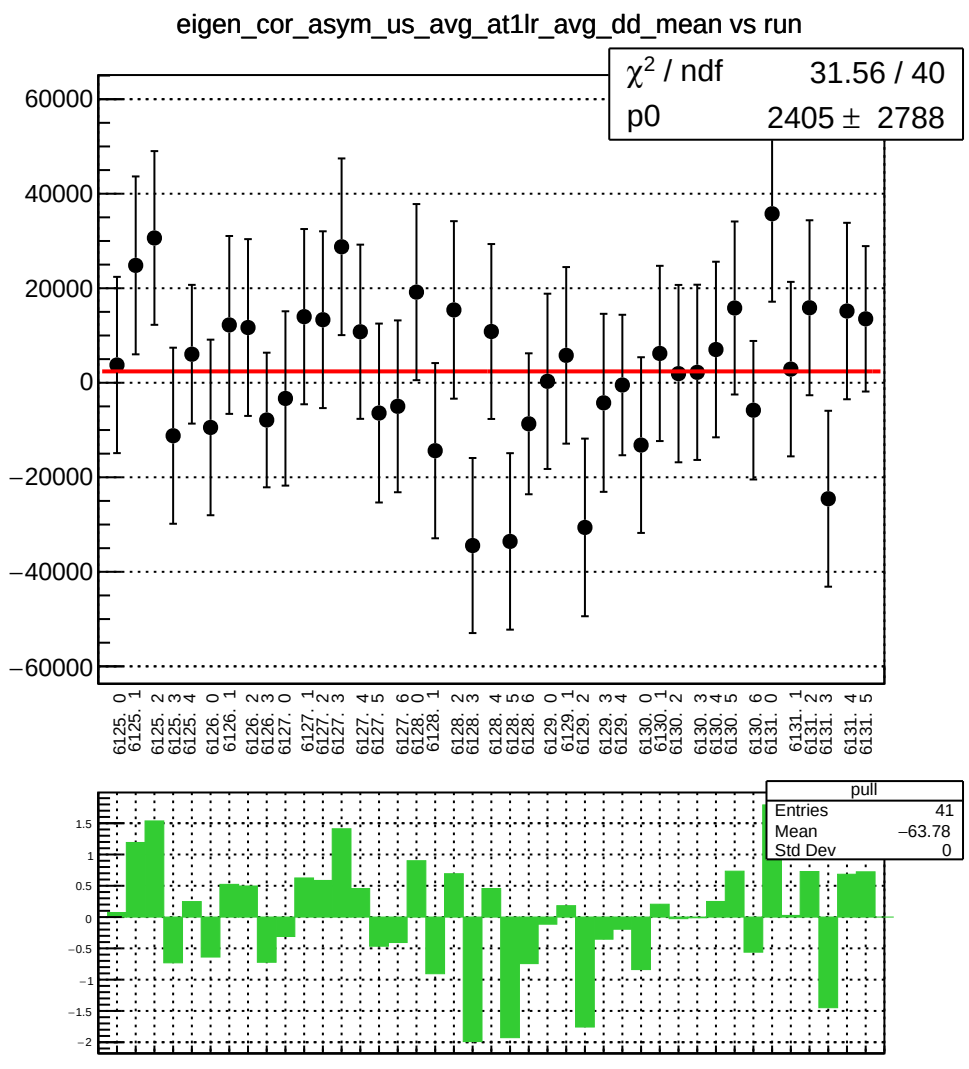

pull1D
Entries 41
Mean 0.00915
Std Dev 0.8773
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

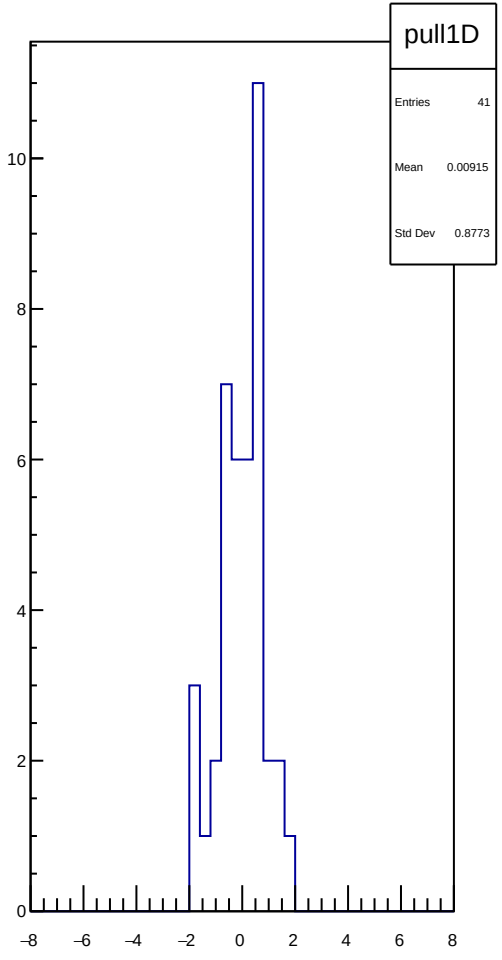

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 48.62 / 40
p0 1768 ± 1.972
1820
1800
1780
1760
1740
1720
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

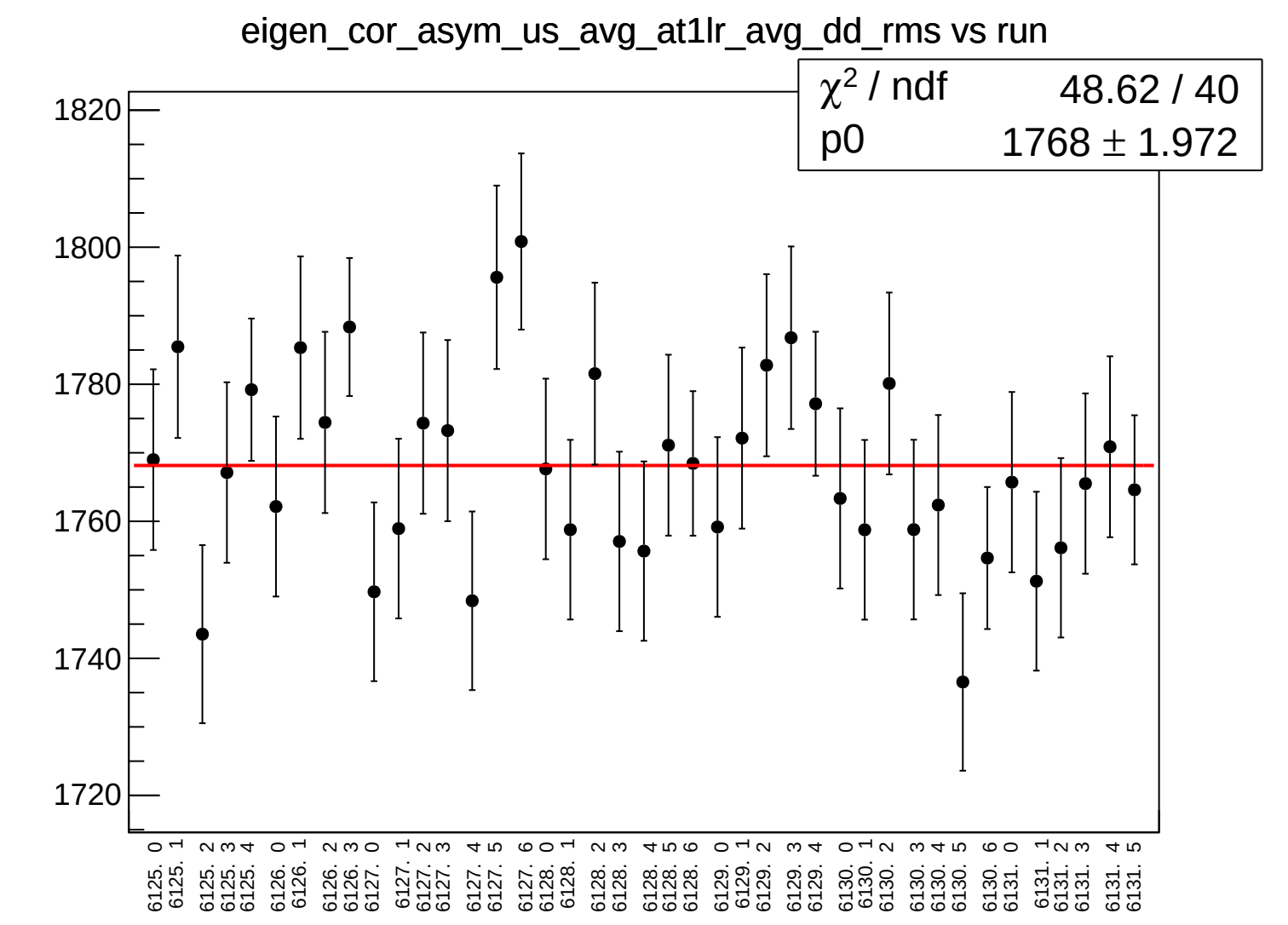

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 36.08 / 40
p0 687.8 ± 1057
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1981
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.0007623
Std Dev 0.938
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 2426 / 40
p0 669.5 ± 0.7477
750
700
650
600
550
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 31.56 / 40
p0 2405 ± 2788
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −63.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.00915
Std Dev 0.8773
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 48.62 / 40
p0 1768 ± 1.972
1820
1800
1780
1760
1740
1720
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
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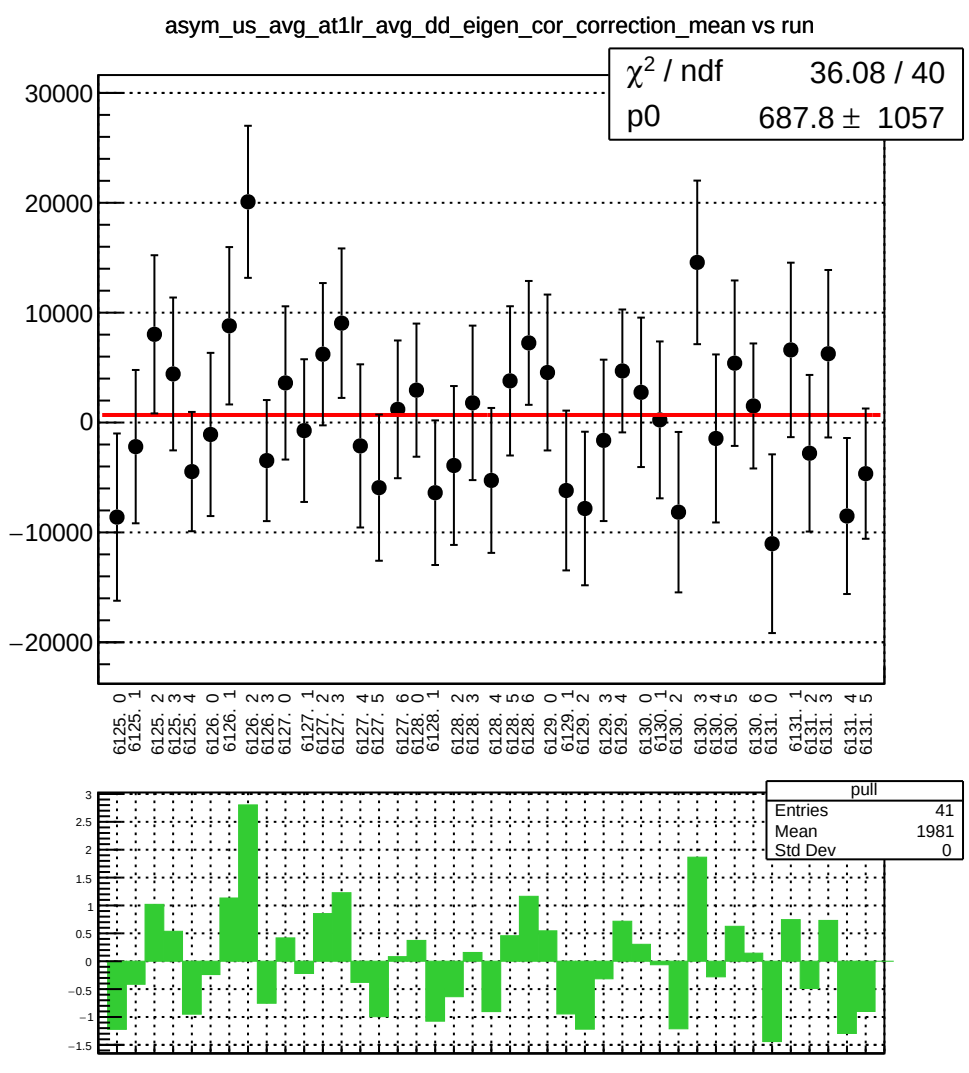
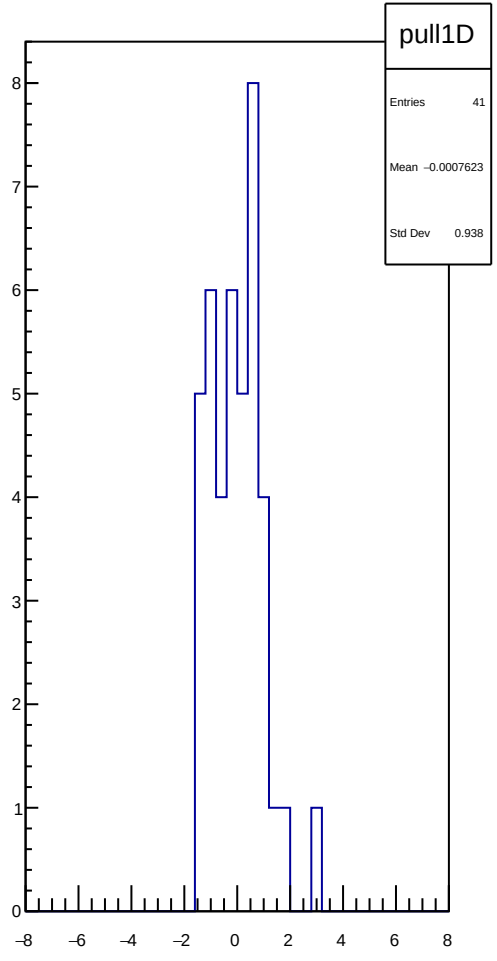
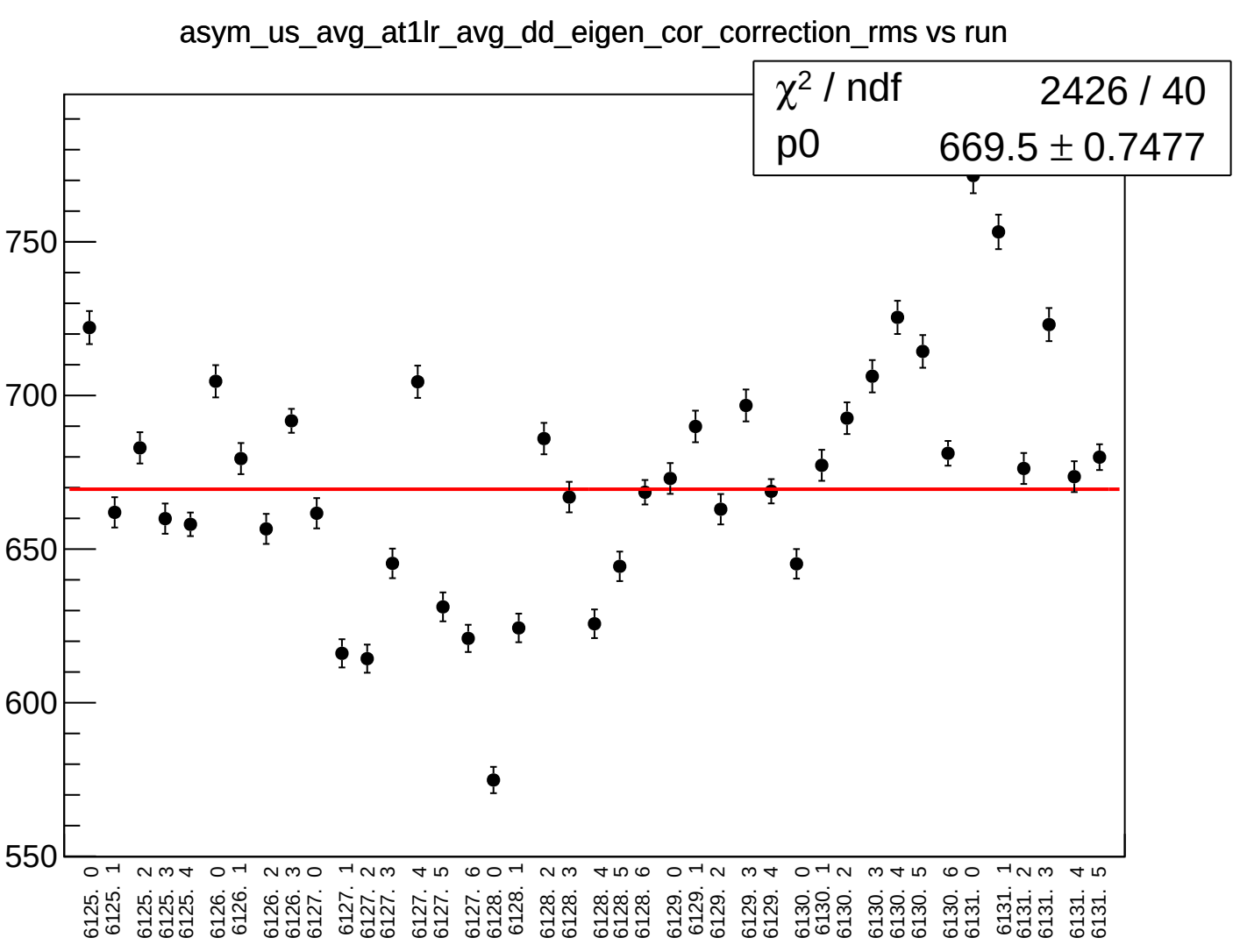
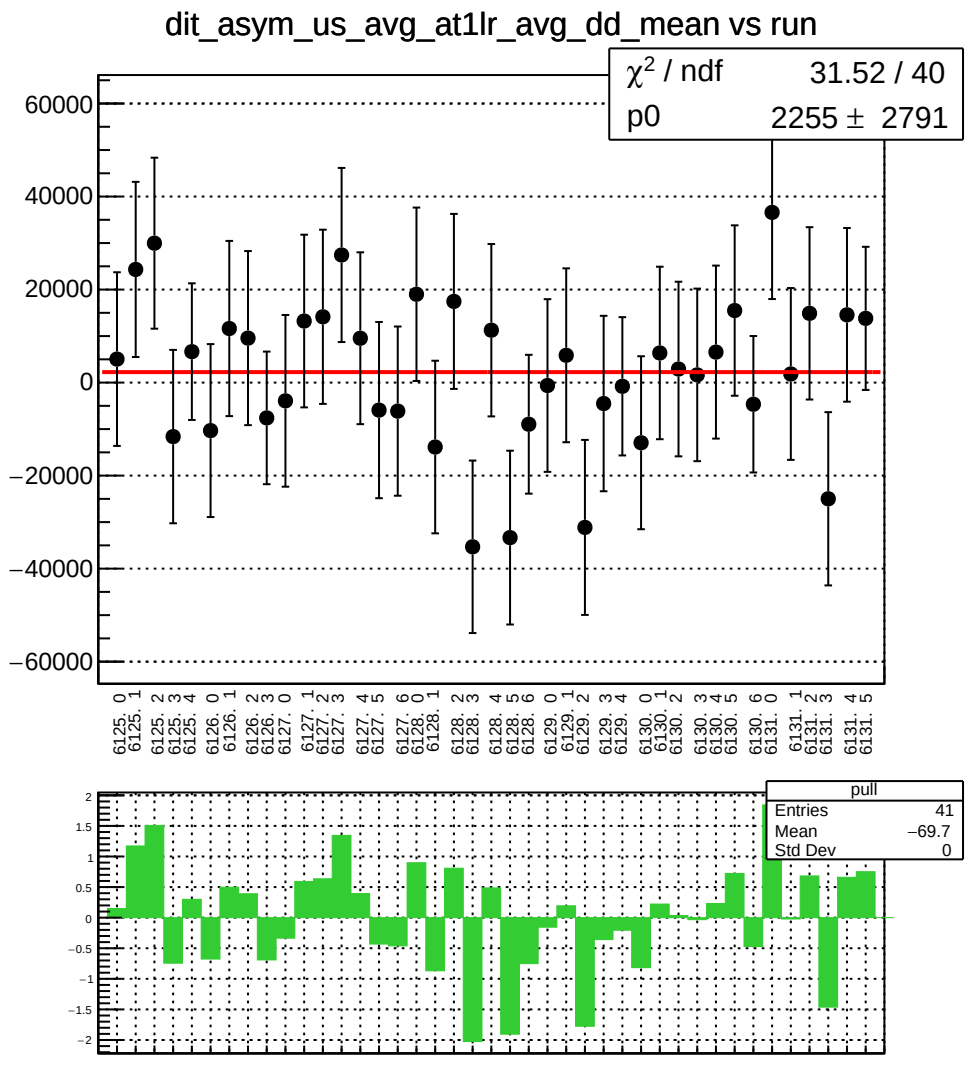
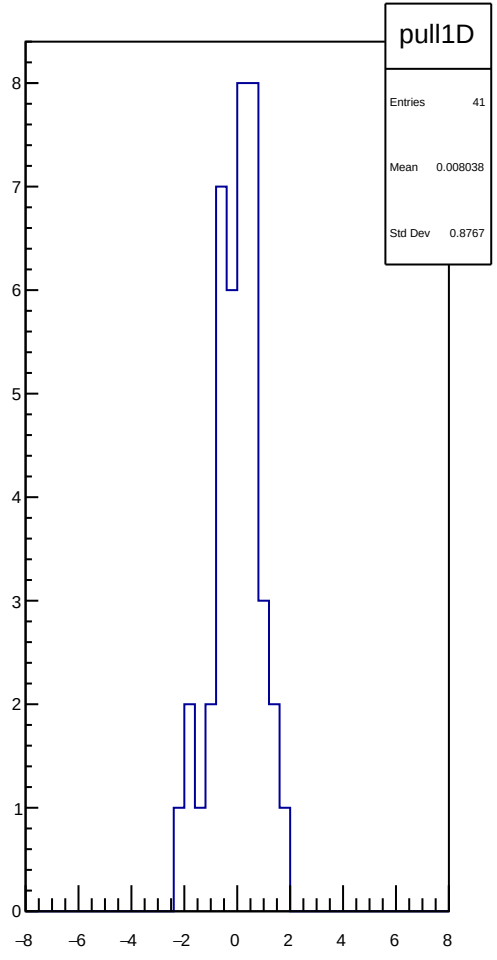
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

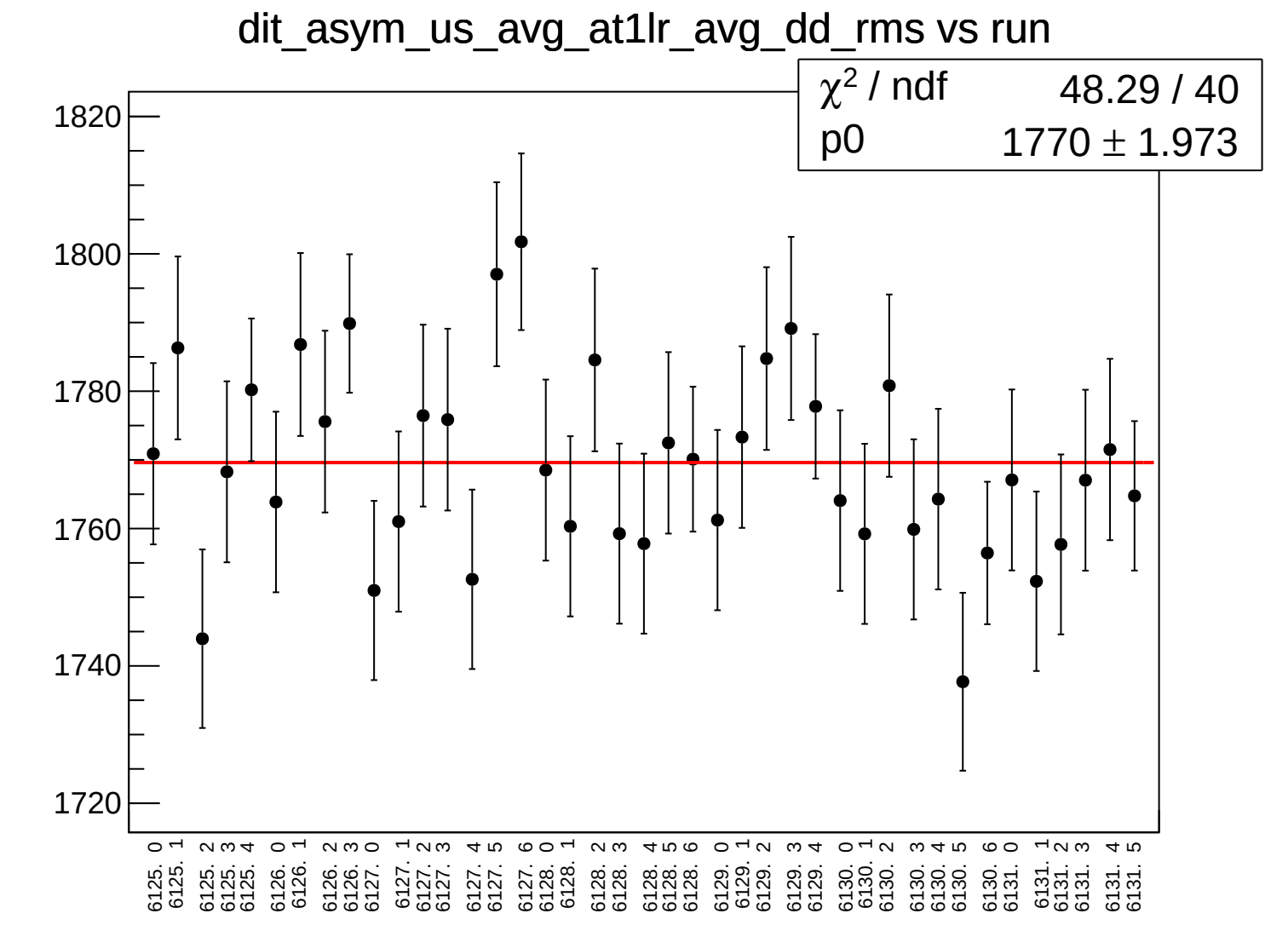

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 36.08 / 40
p0 687.8 ± 1057
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1981
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

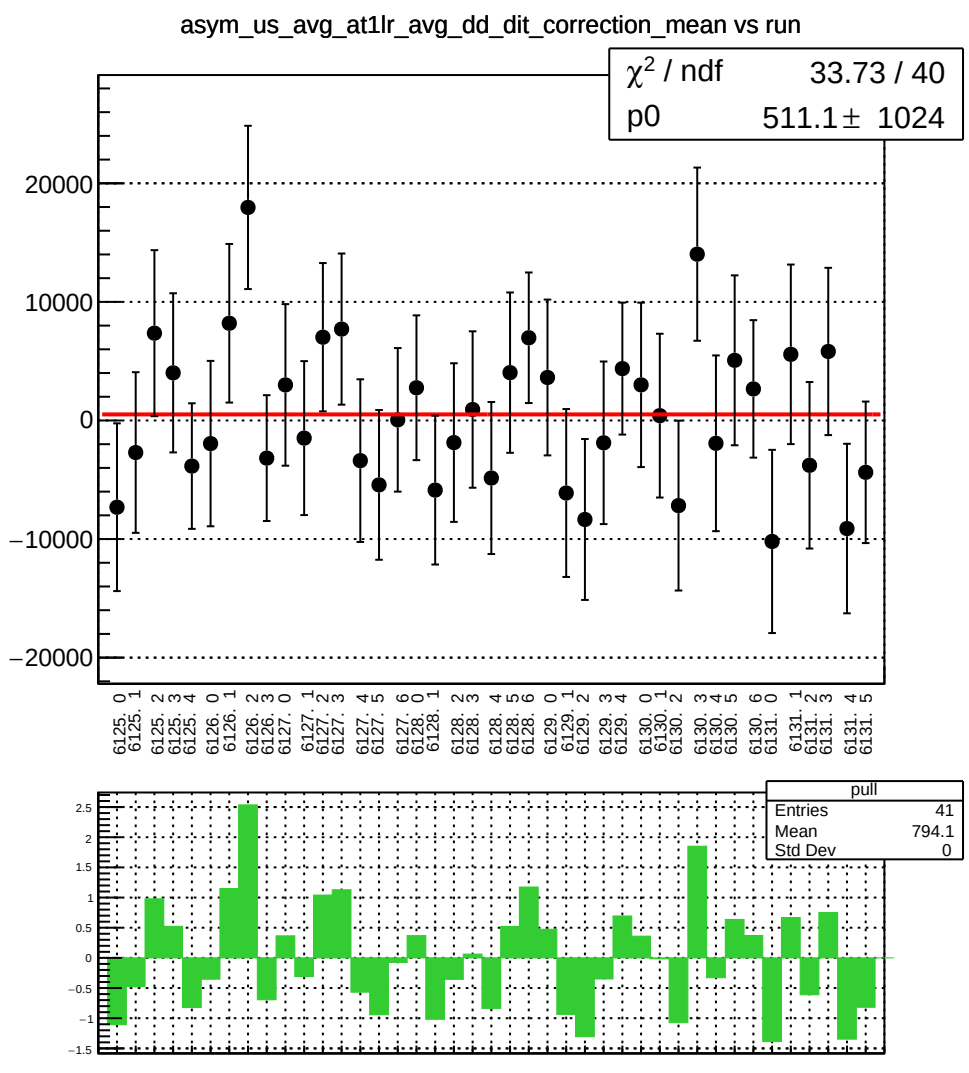

pull1D
Entries 41
Mean −0.0007623
Std Dev 0.938
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

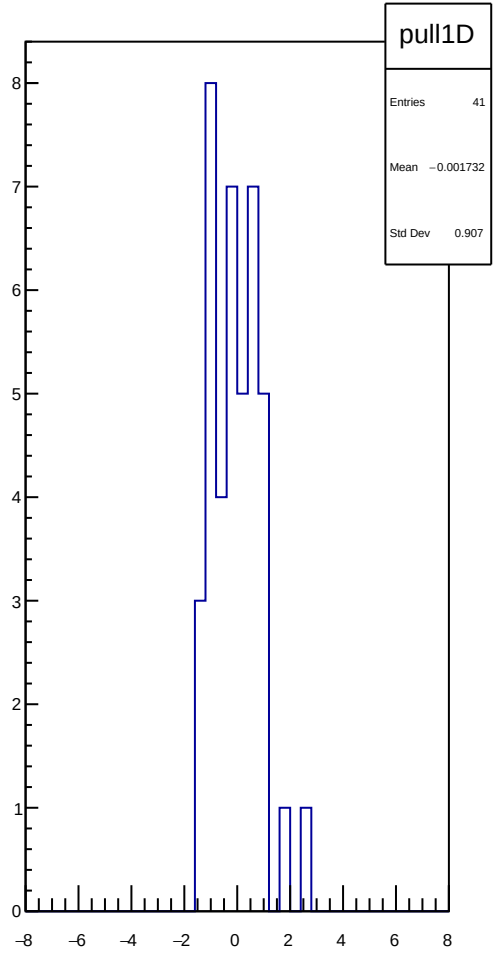

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2426 / 40
p0 669.5 ± 0.7477
750
700
650
600
550
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

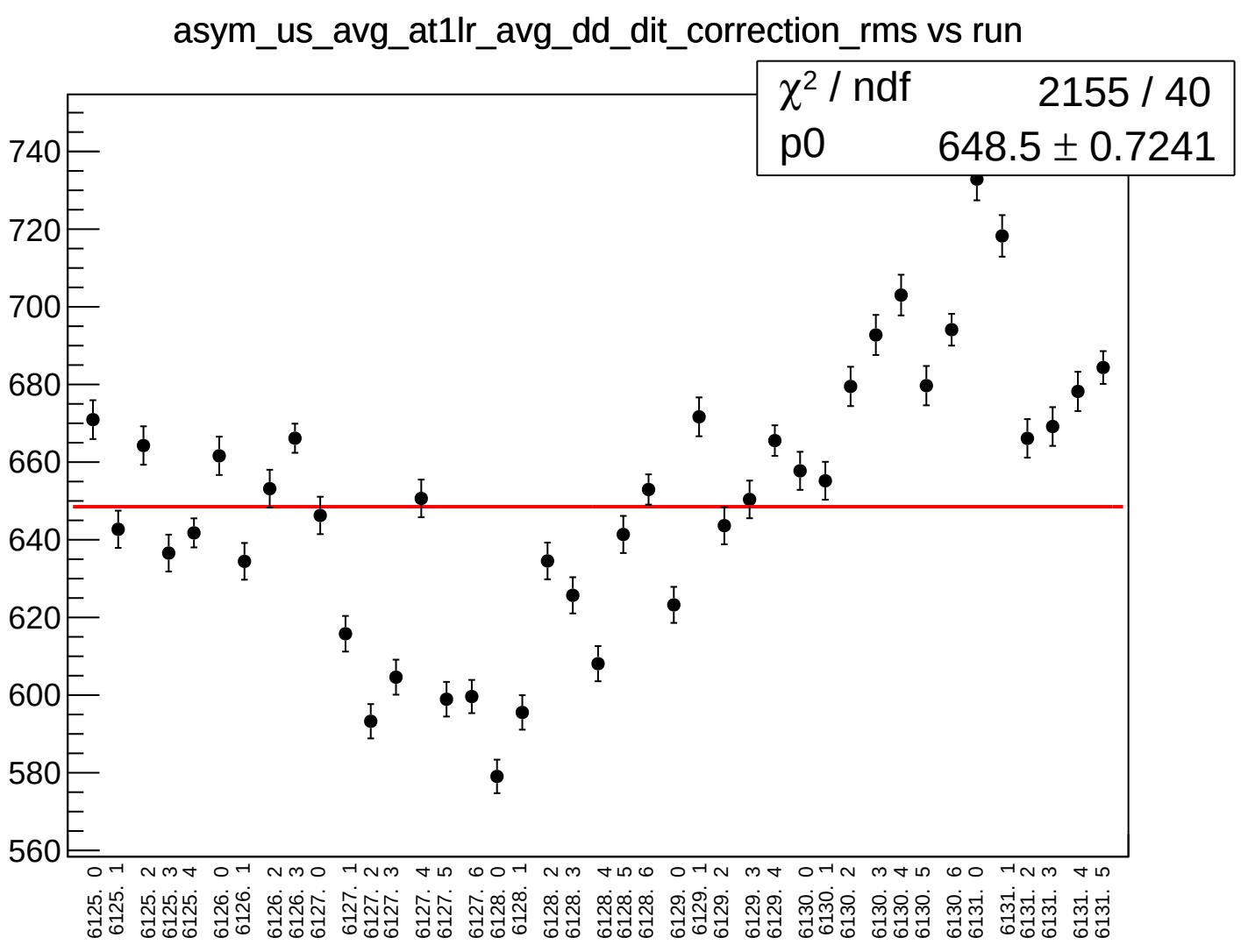

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 31.52 / 40
p0 2255 ± 2791
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −69.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

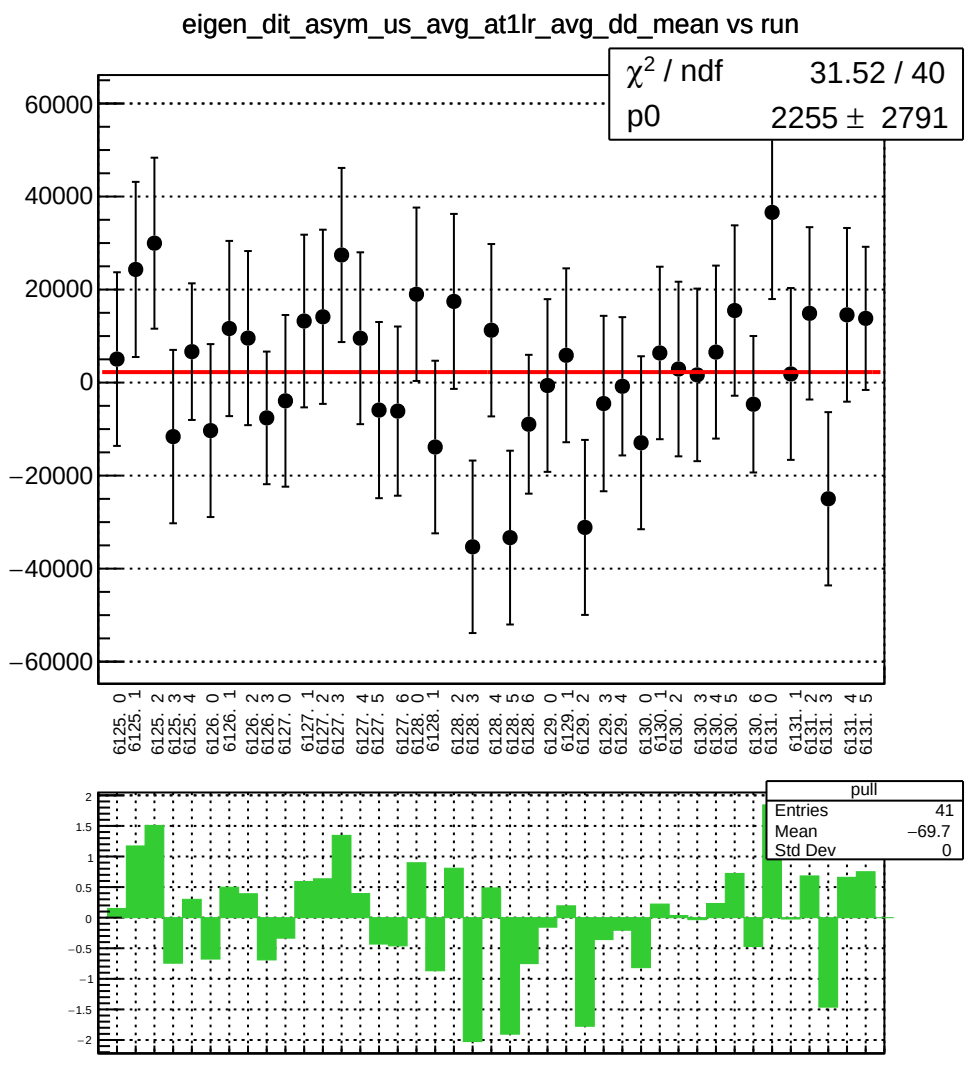

pull1D
Entries 41
Mean 0.008038
Std Dev 0.8767
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

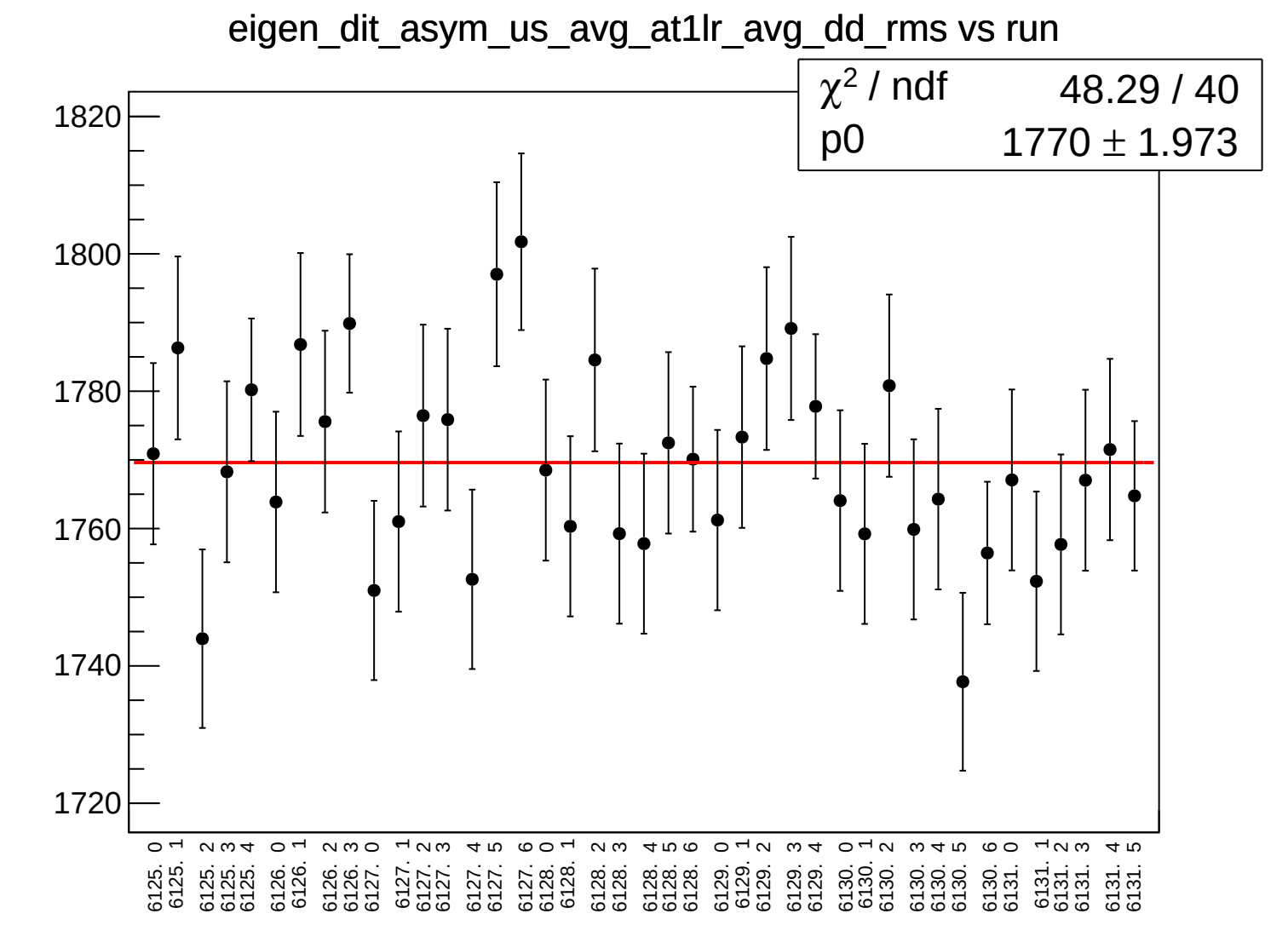

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 48.29 / 40
p0 1770 ± 1.973
1820
1800
1780
1760
1740
1720
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

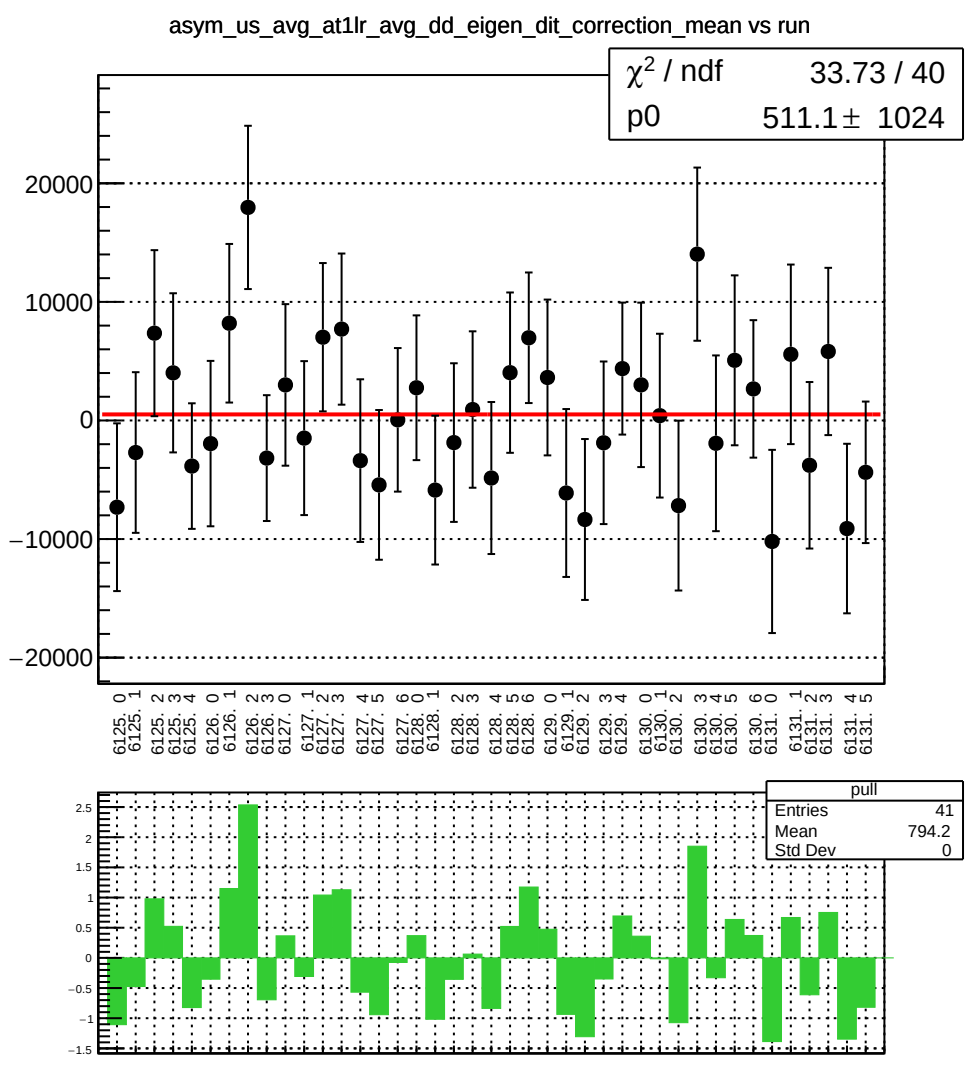

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 33.73 / 40
p0 511.1± 1024
pull
Entries 41
Mean 794.1
Std Dev 0

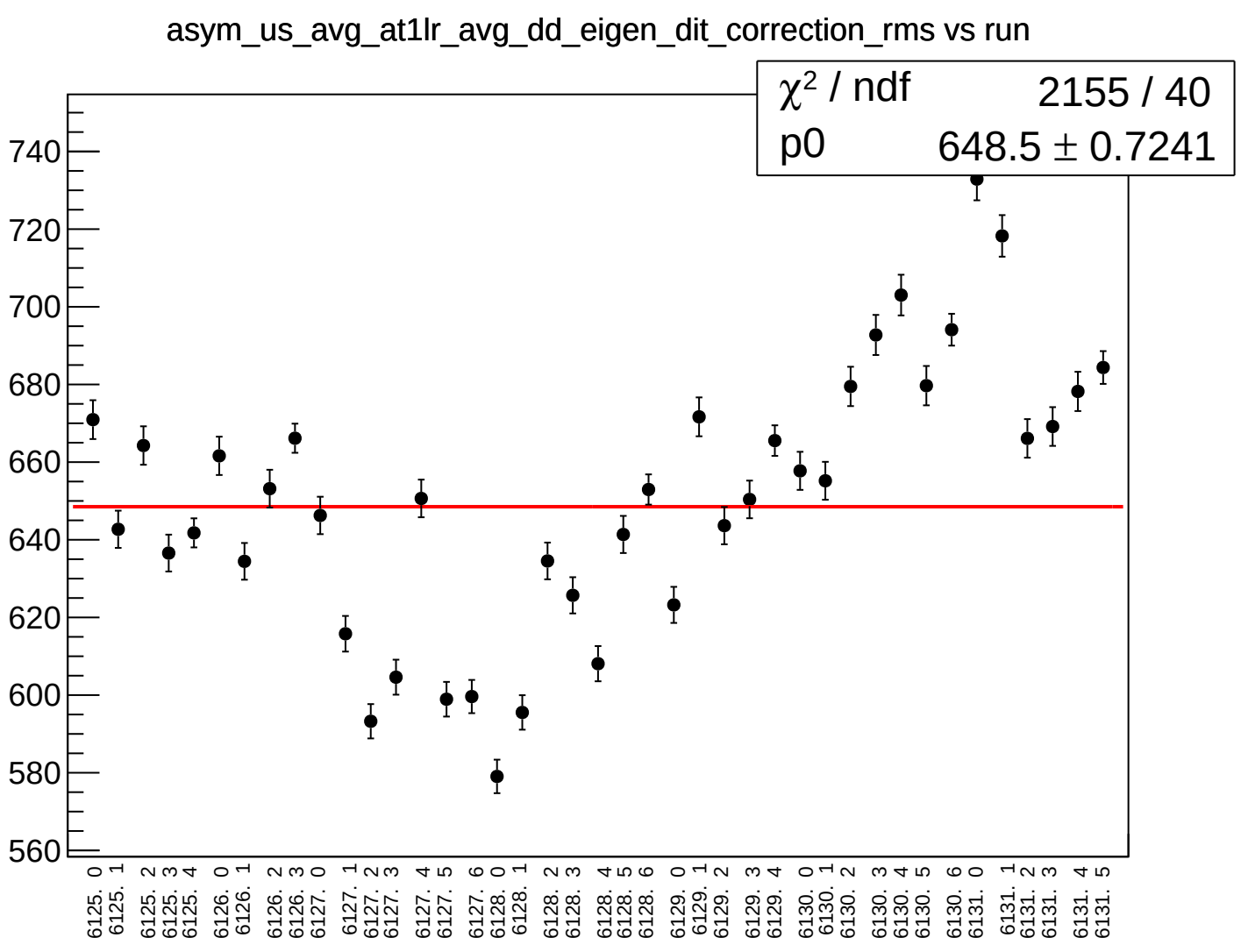

pull1D
Entries 41
Mean −0.001732
Std Dev 0.907

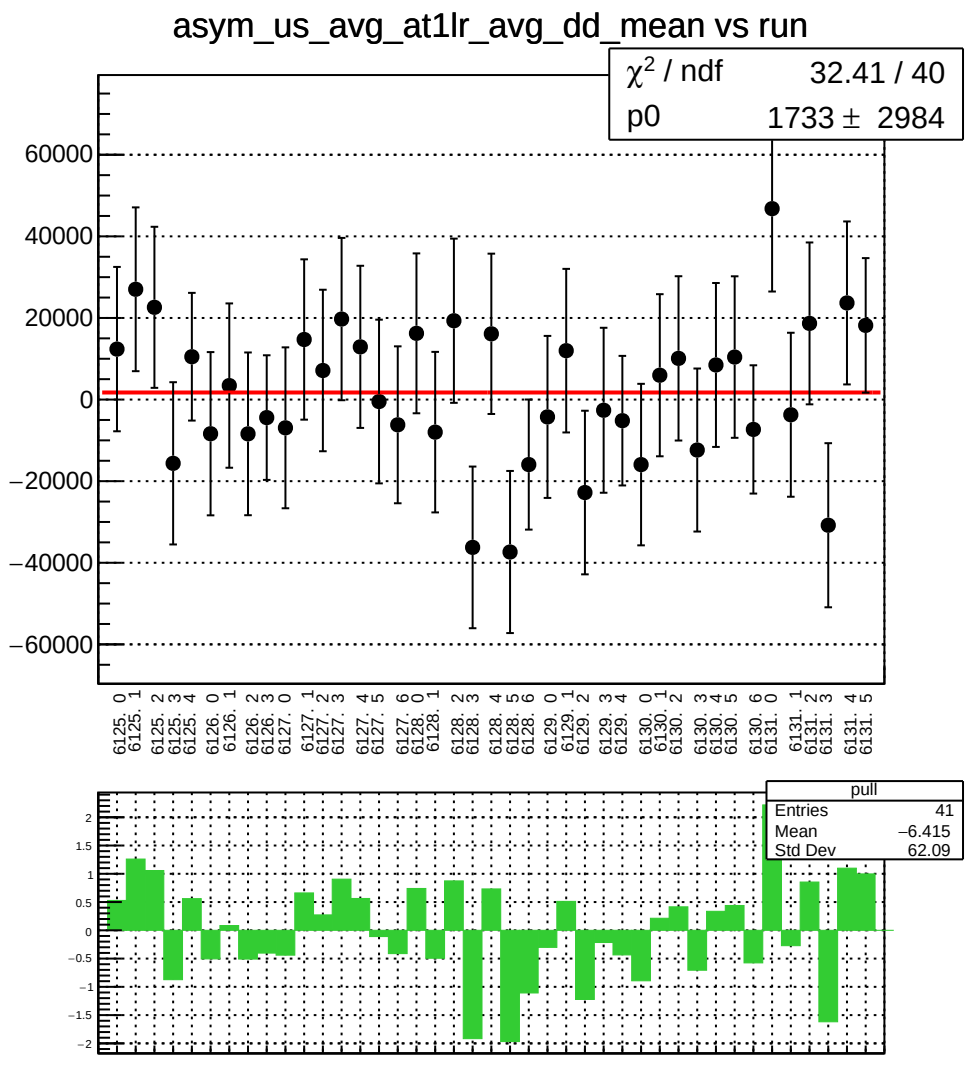

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 2155 / 40
p0 648.5 ± 0.7241
740
720
700
680
660
640
620
600
580
560
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

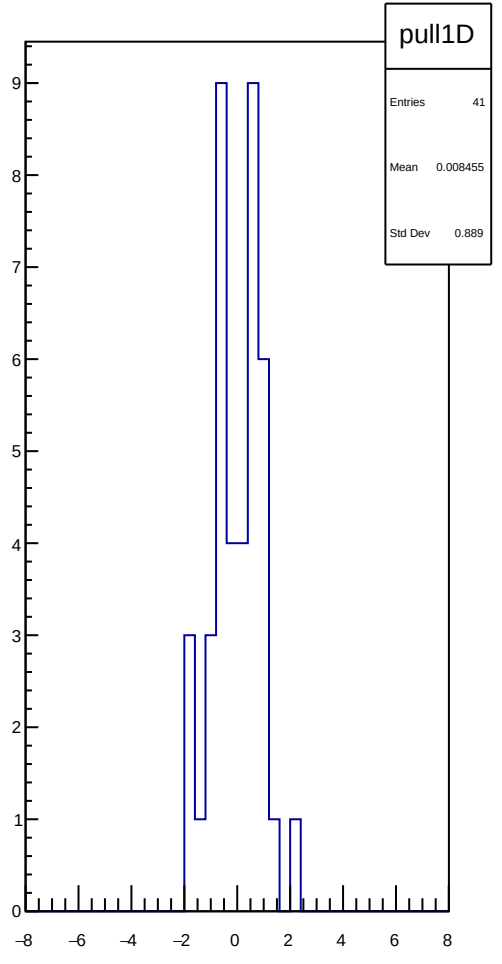

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 31.52 / 40
p0 2255 ± 2791
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −69.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.008038
Std Dev 0.8767
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

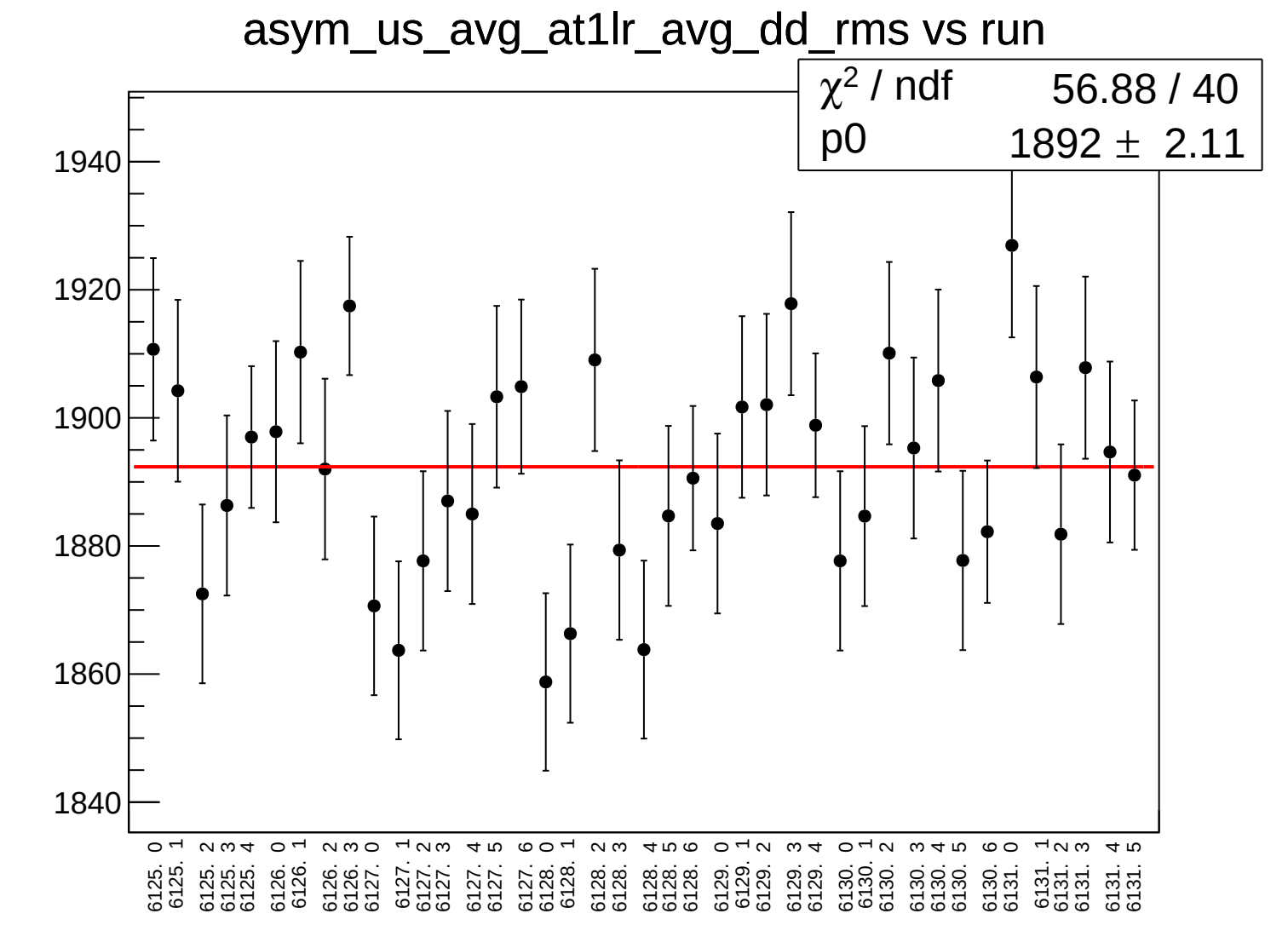

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 48.29 / 40
p0 1770 ± 1.973
1820
1800
1780
1760
1740
1720
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

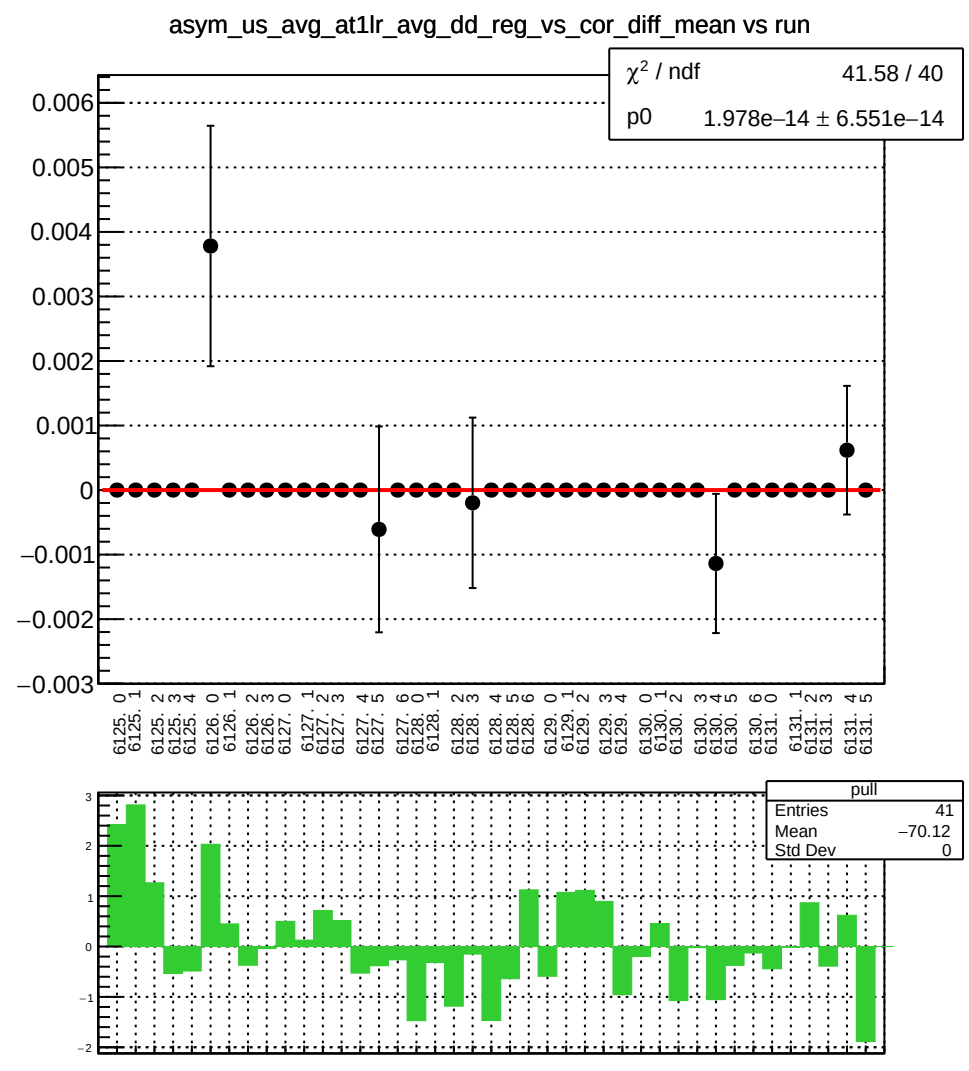

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 33.73 / 40
p0 511.1± 1024
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 794.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.001732
Std Dev 0.907
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

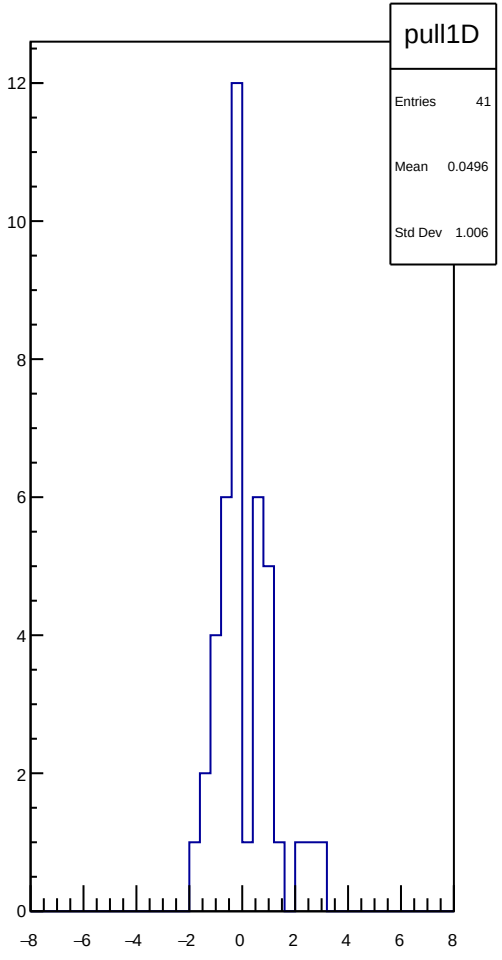

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2155 / 40
p0 648.5 ± 0.7241
740
720
700
680
660
640
620
600
580
560
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

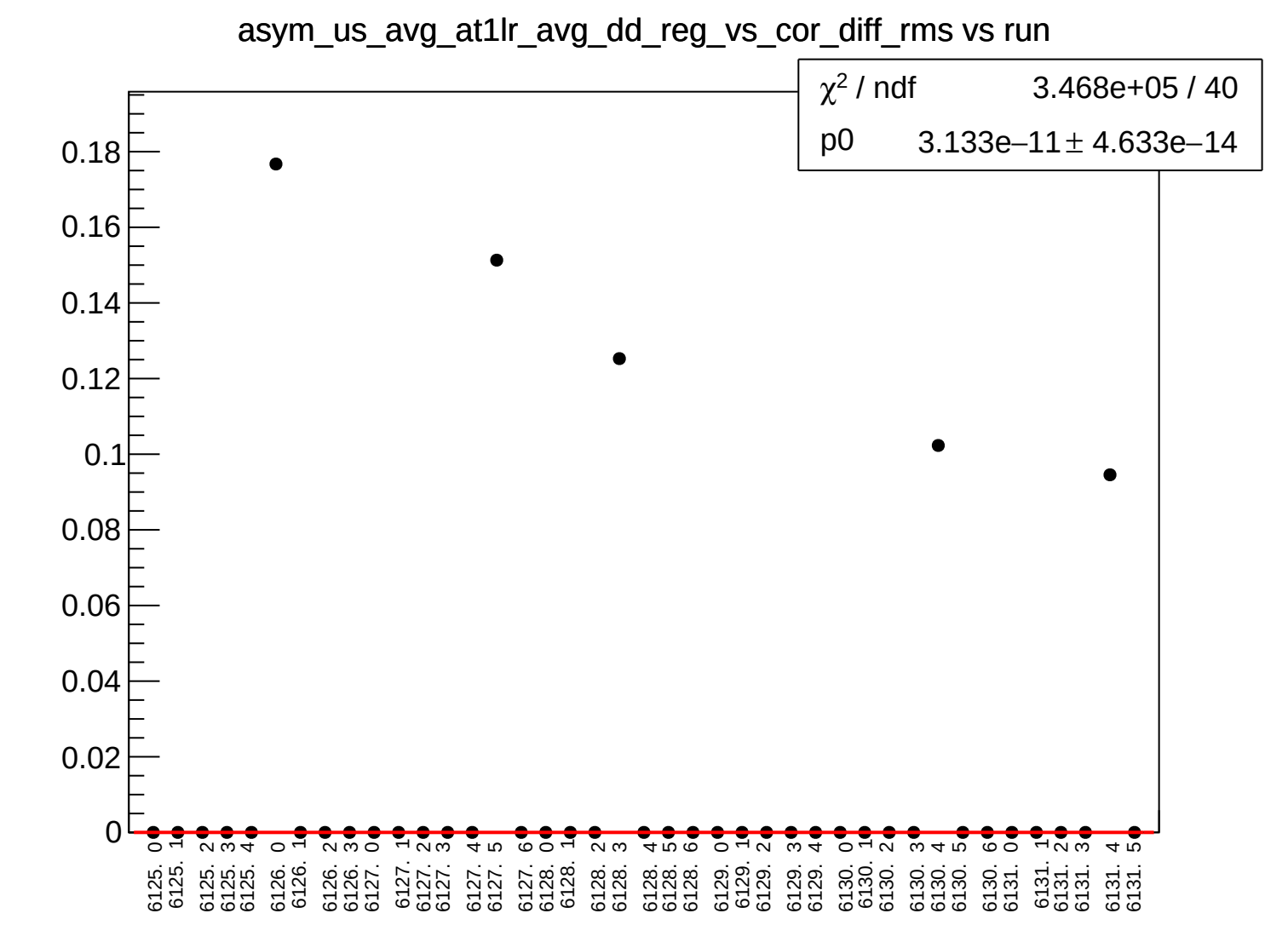

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 32.41 / 40
p0 1733 ± 2984
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −6.415
Std Dev 62.09
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

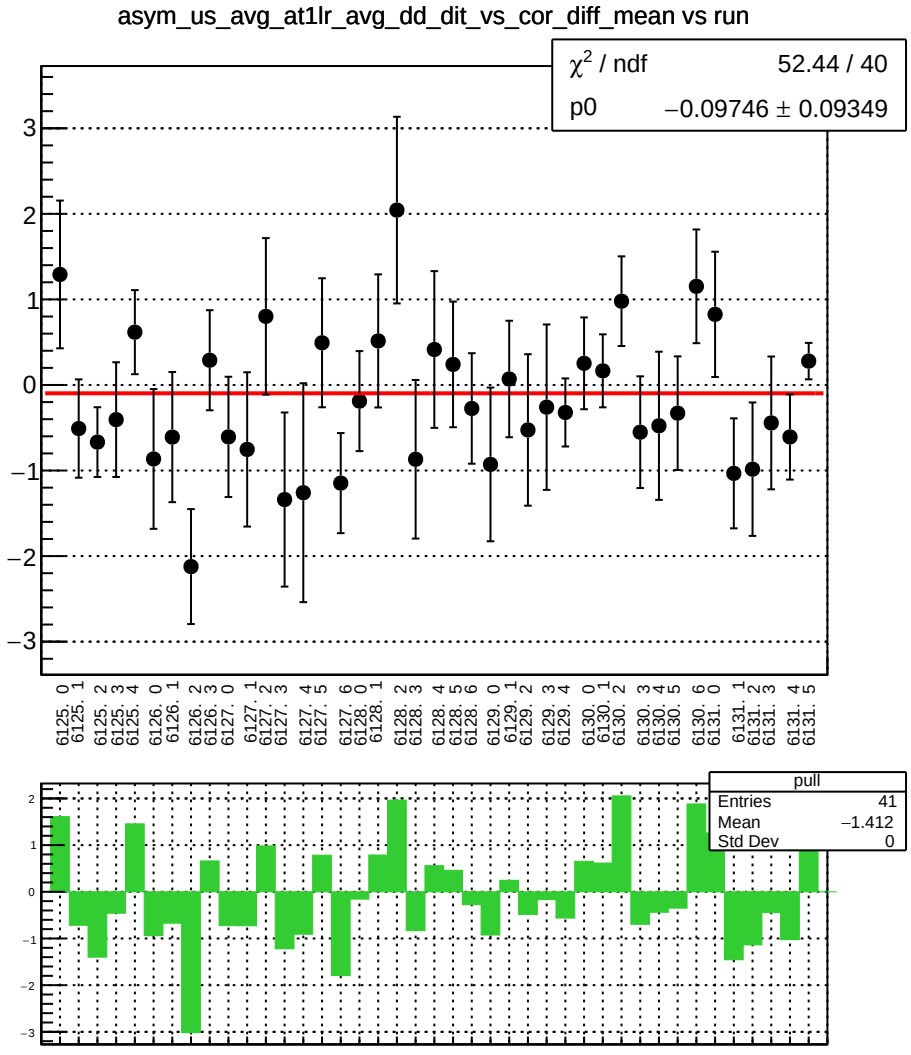

pull1D
Entries 41
Mean 0.008455
Std Dev 0.889
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

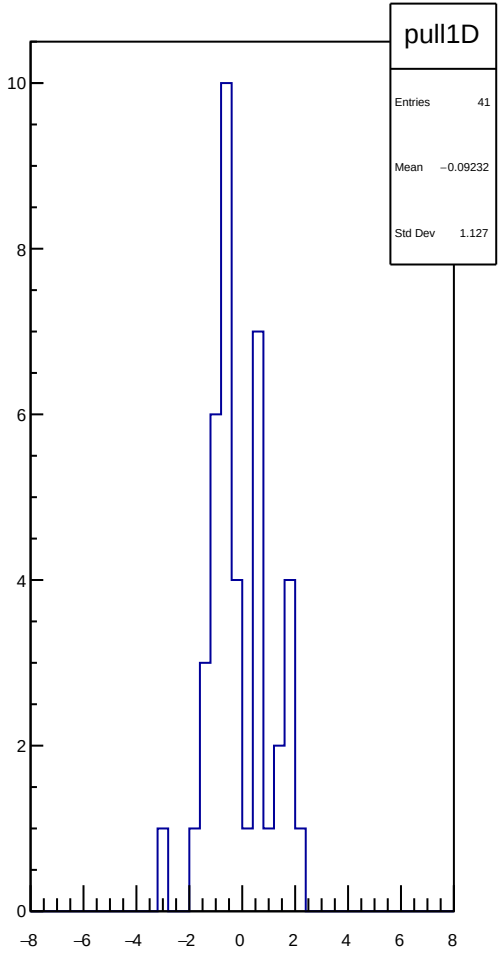

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 56.88 / 40
p0 1892 ± 2.11
1940
1920
1900
1880
1860
1840
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

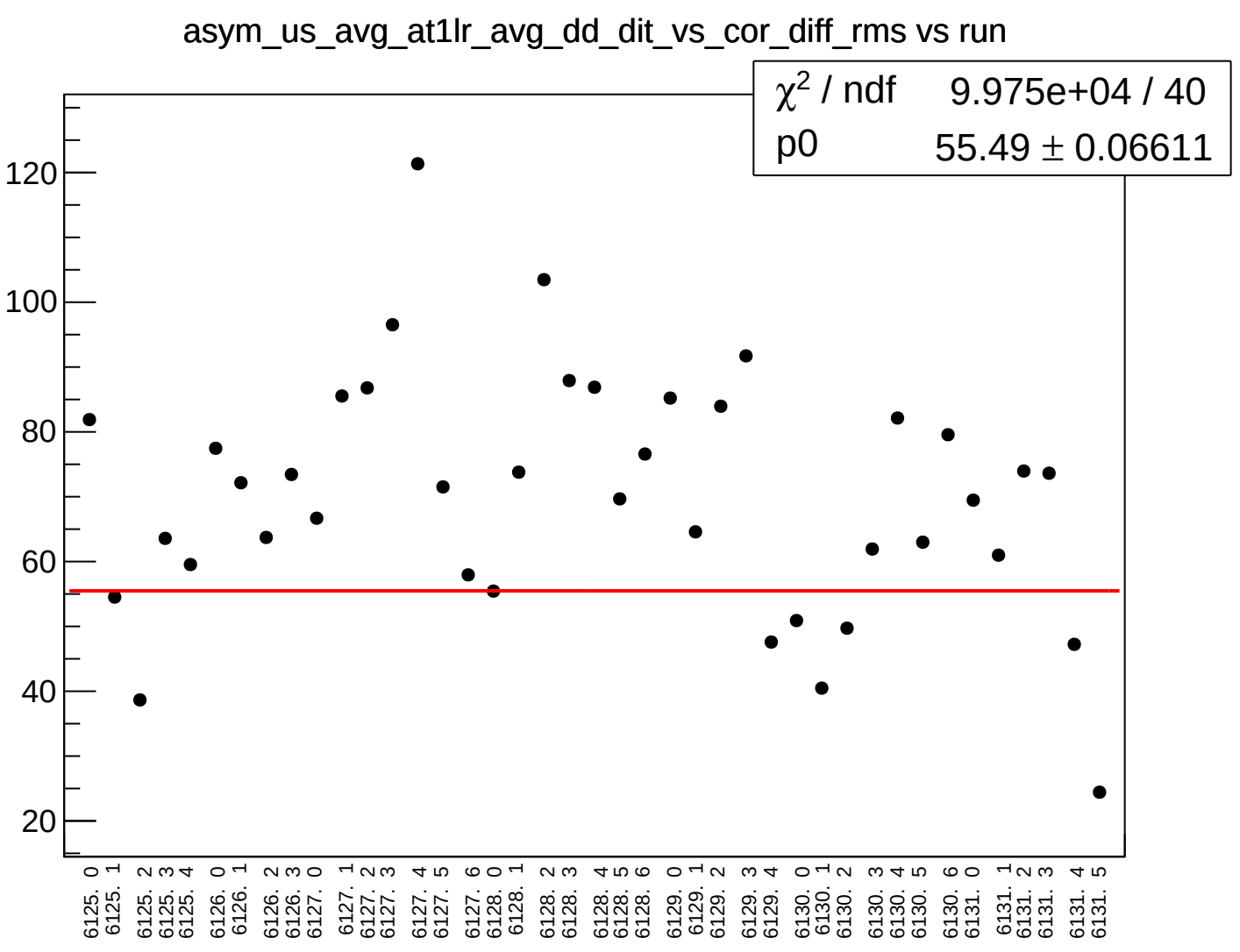

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 41.58 / 40
p0 1.978e−14 ± 6.551e−14
pull
Entries 41
Mean −70.12
Std Dev 0


pull1D
Entries 41
Mean 0.0496
Std Dev 1.006

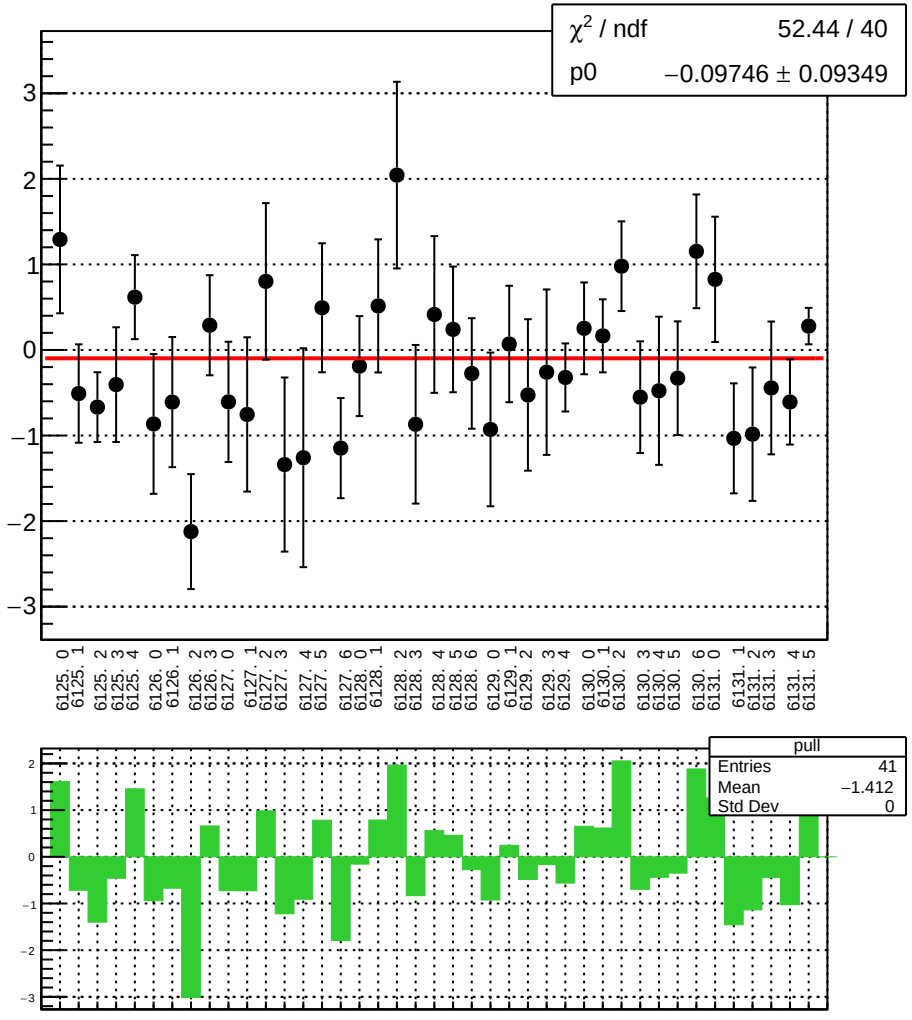

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.468e+05 / 40
p0 3.133e−11 ± 4.633e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

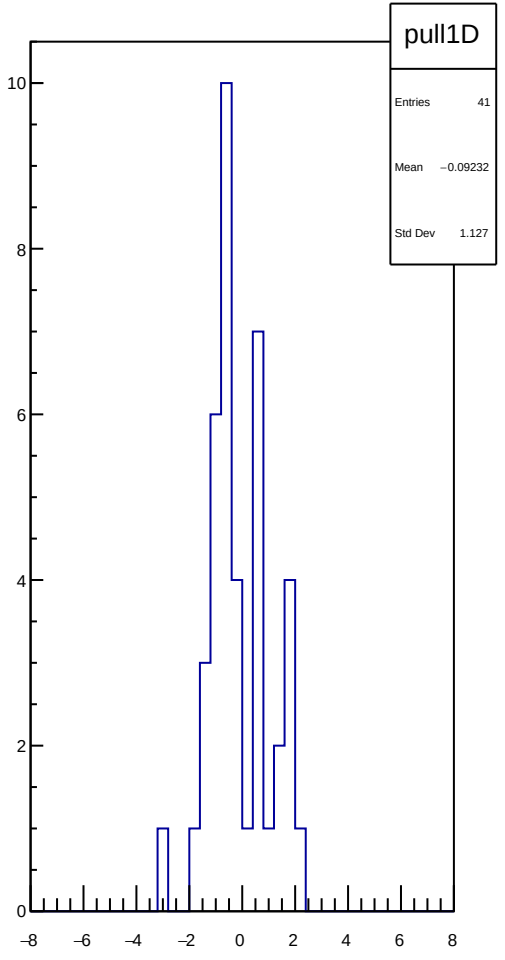

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 52.44 / 40
p0 −0.09746 ± 0.09349
pull
Entries 41
Mean −1.412
Std Dev 0

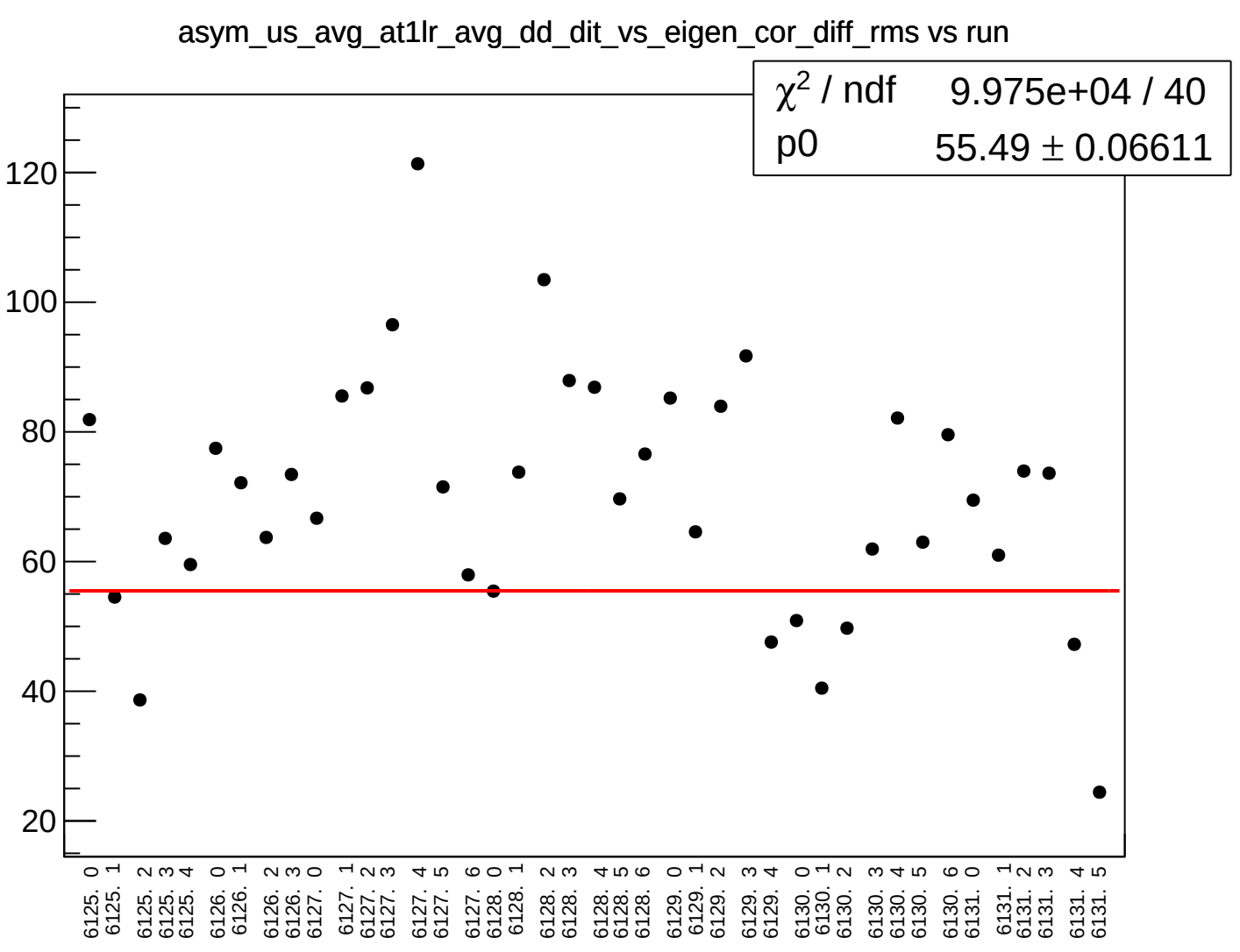

pull1D
Entries 41
Mean −0.09232
Std Dev 1.127

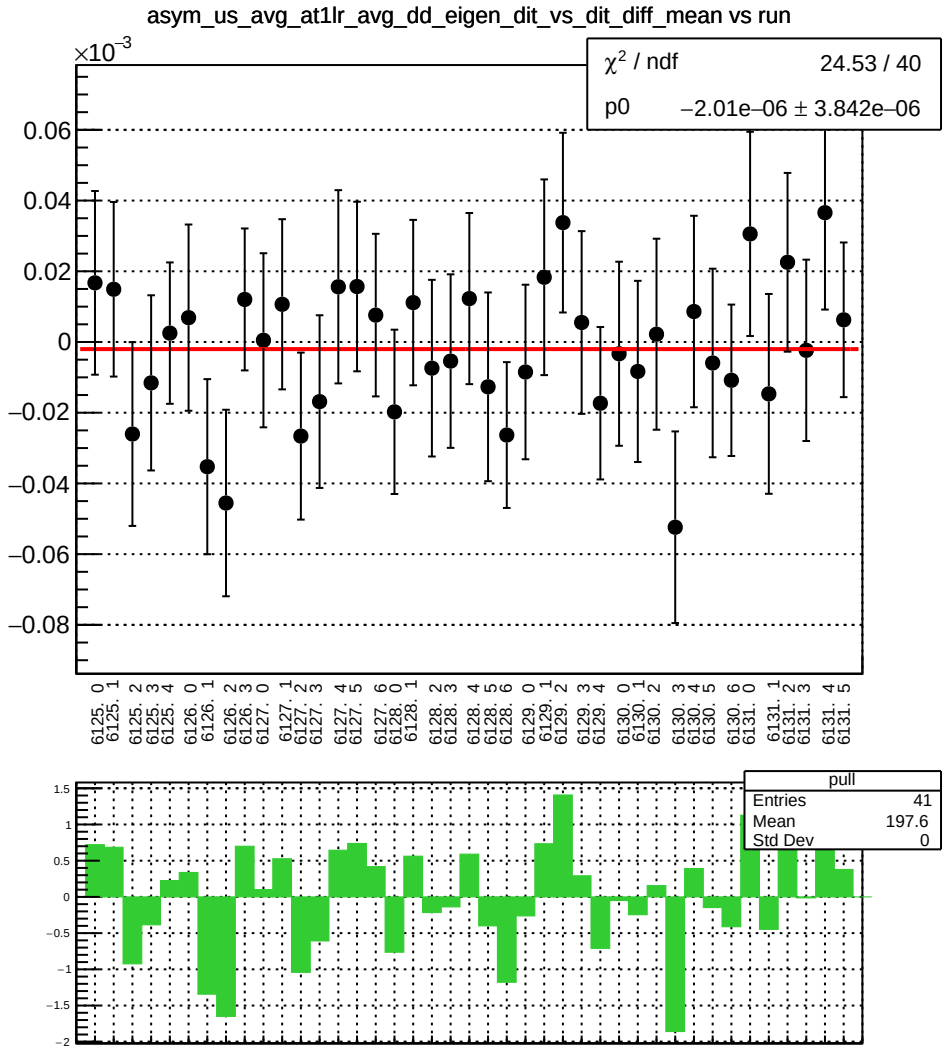

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.975e+04 / 40
p0 55.49 ± 0.06611
120
100
80
60
40
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

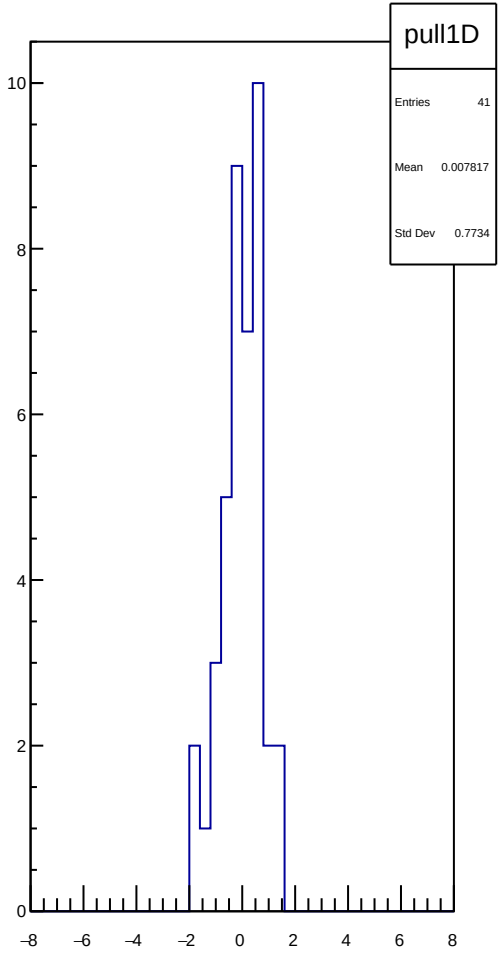
asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run

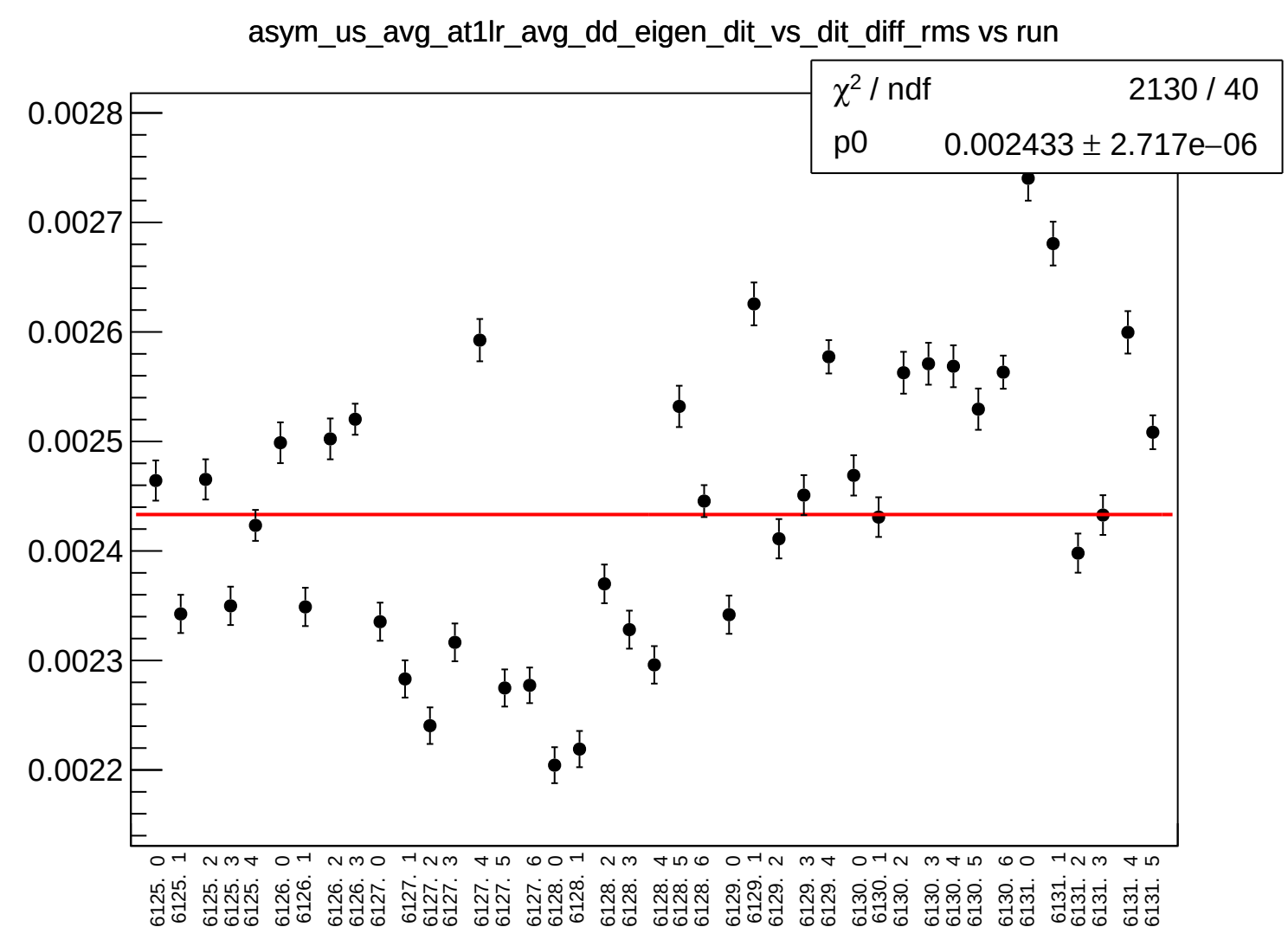


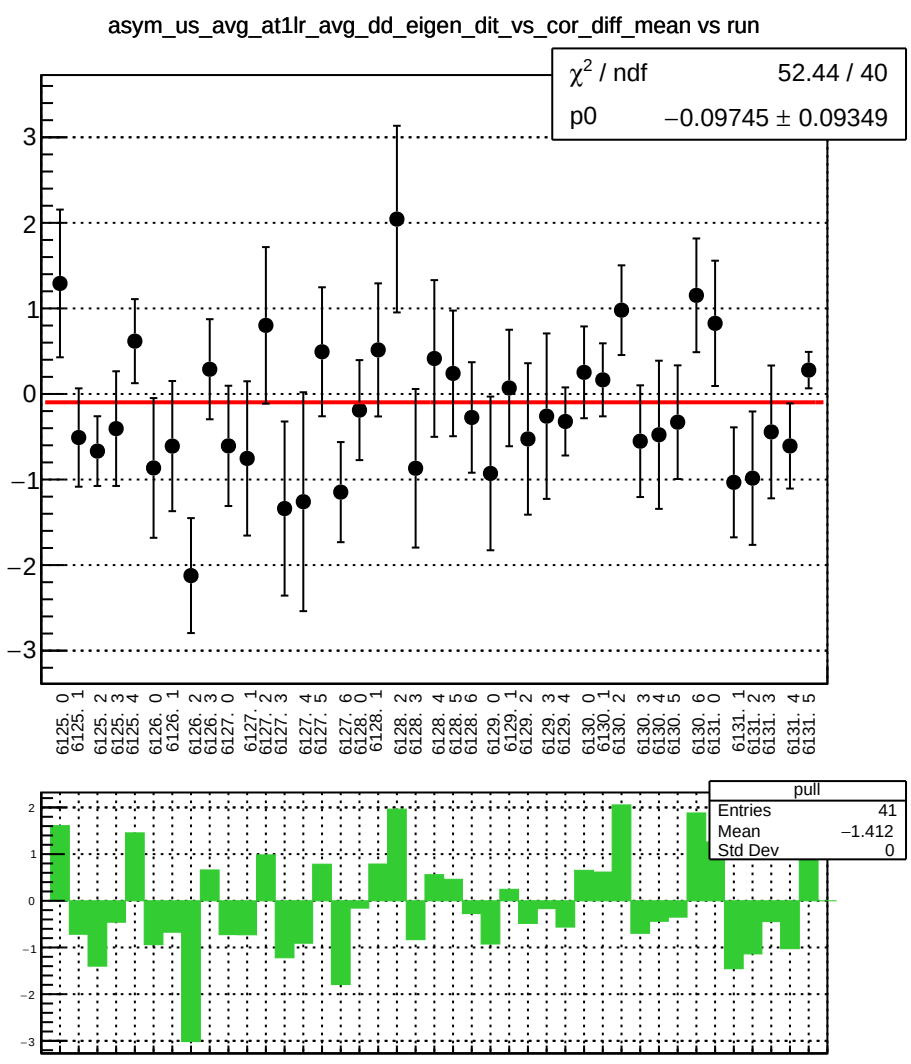


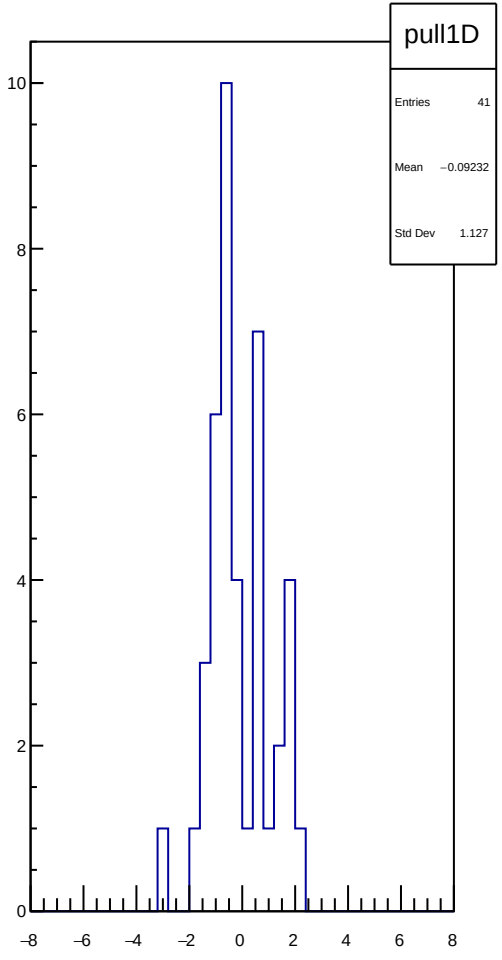

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.975e+04 / 40
p0 55.49 ± 0.06611
120
100
80
60
40
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

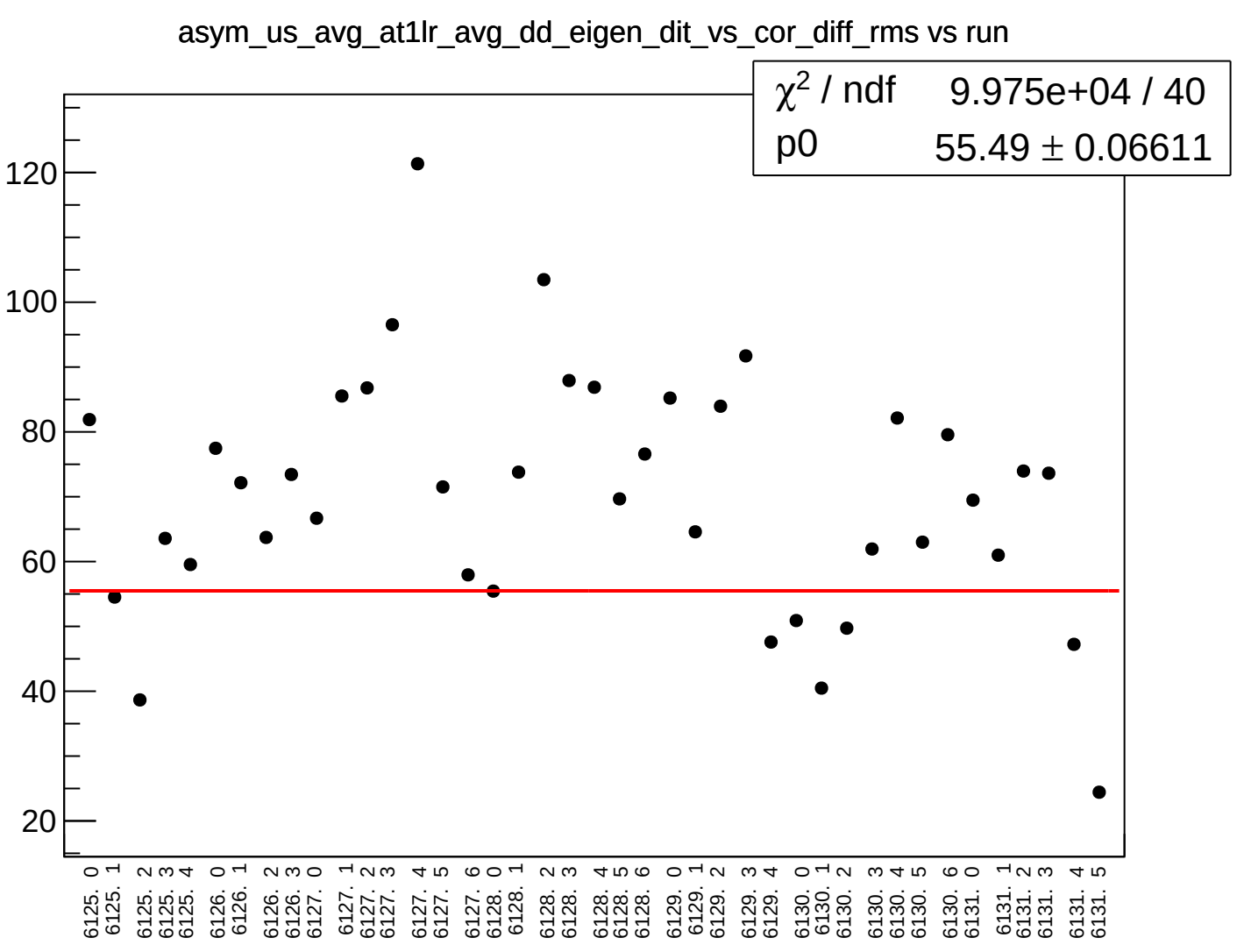

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 24.53 / 40
p0 −2.01e−06 ± 3.842e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 197.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.007817
Std Dev 0.7734
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

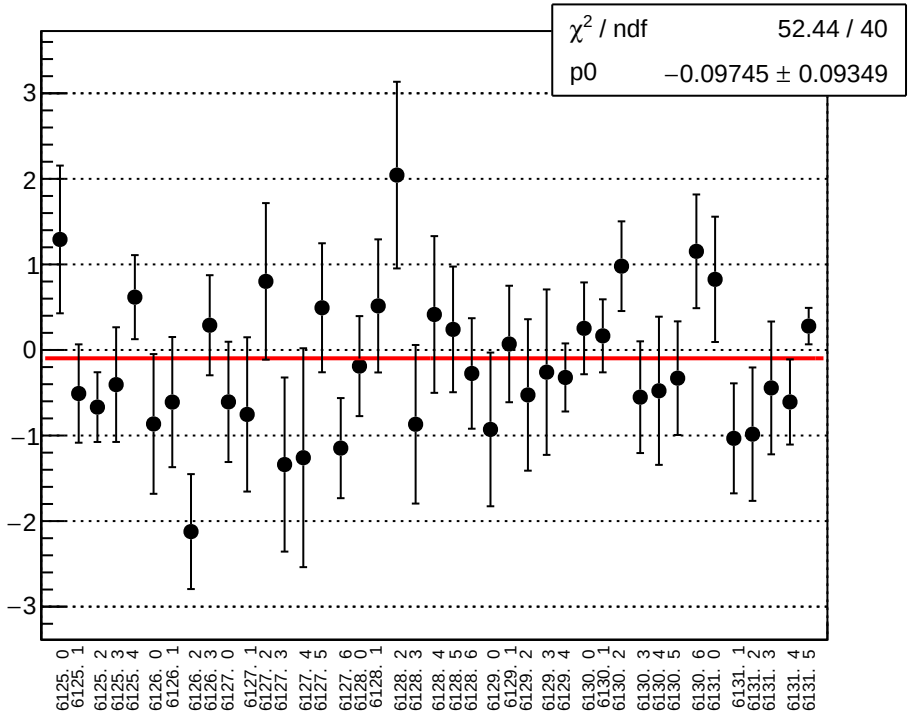

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2130 / 40
p0 0.002433 ± 2.717e−06
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

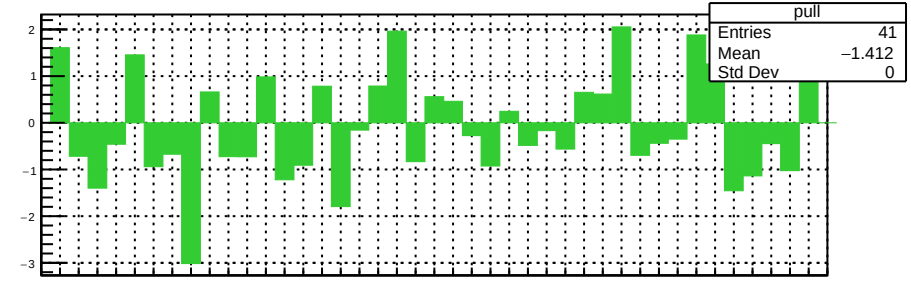

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 52.44 / 40
p0 −0.09745 ± 0.09349
pull
Entries 41
Mean −1.412
Std Dev 0

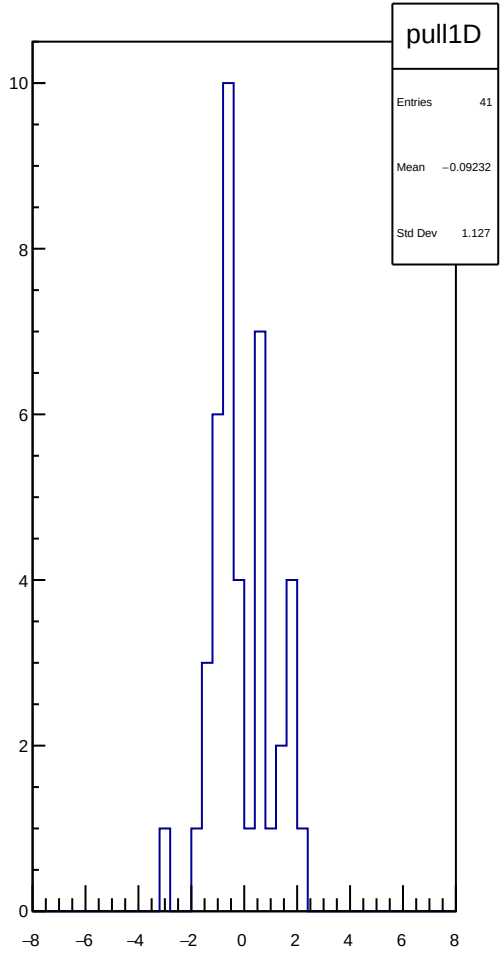

pull1D
Entries 41
Mean −0.09232
Std Dev 1.127

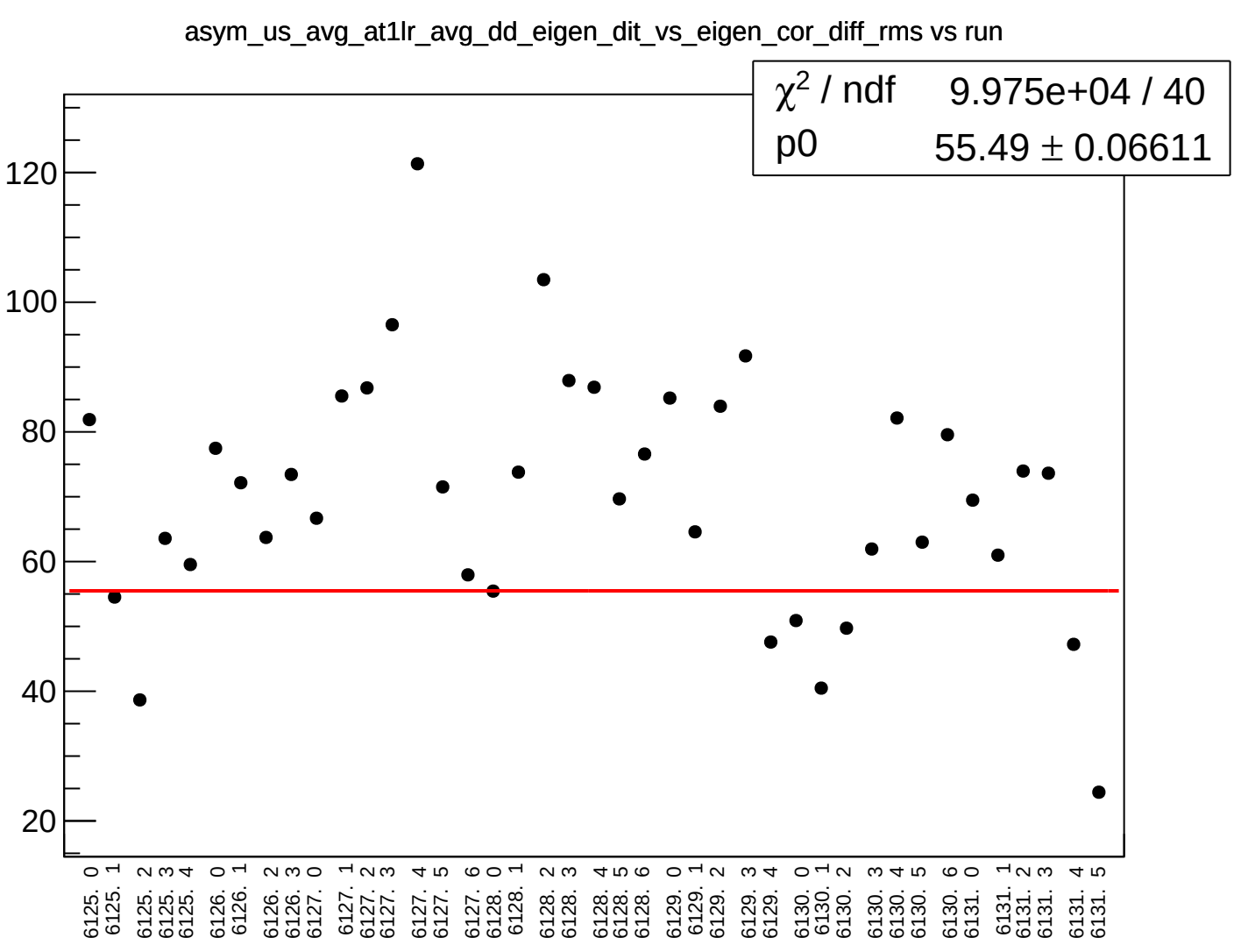

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.975e+04 / 40
p0 55.49 ± 0.06611
120
100
80
60
40
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

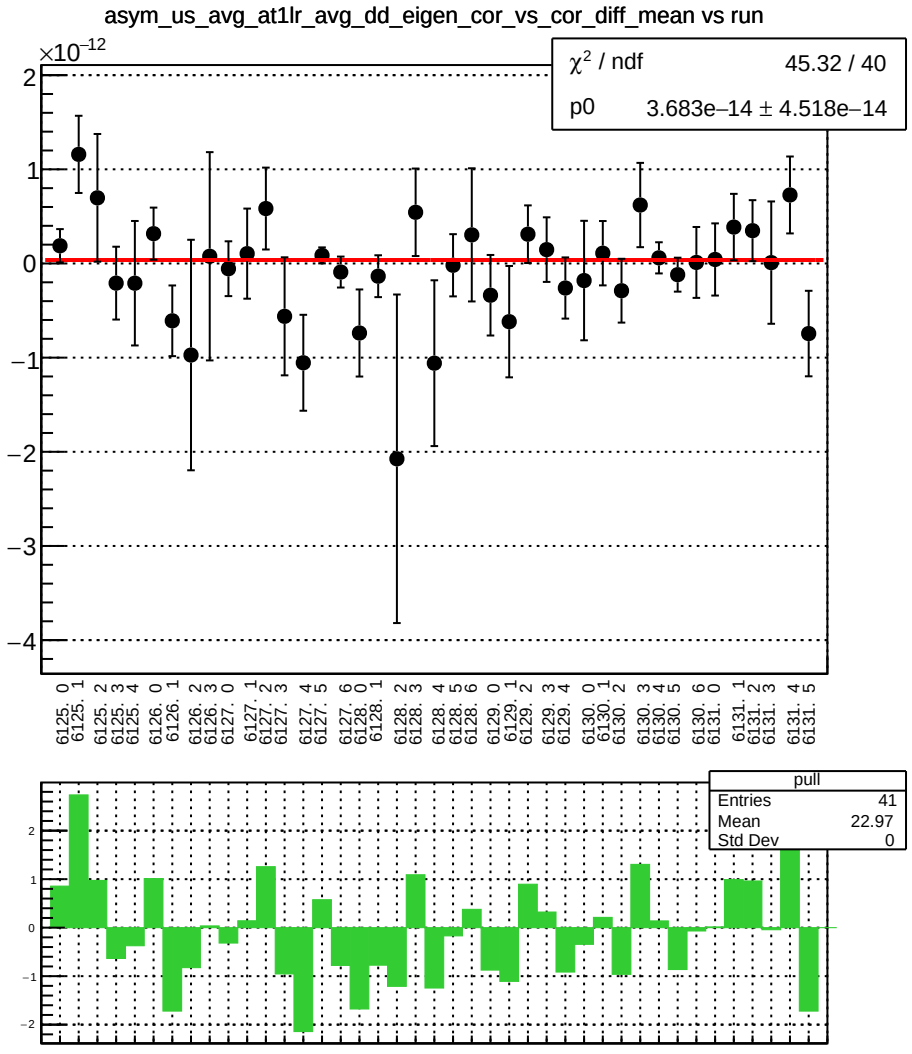
asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

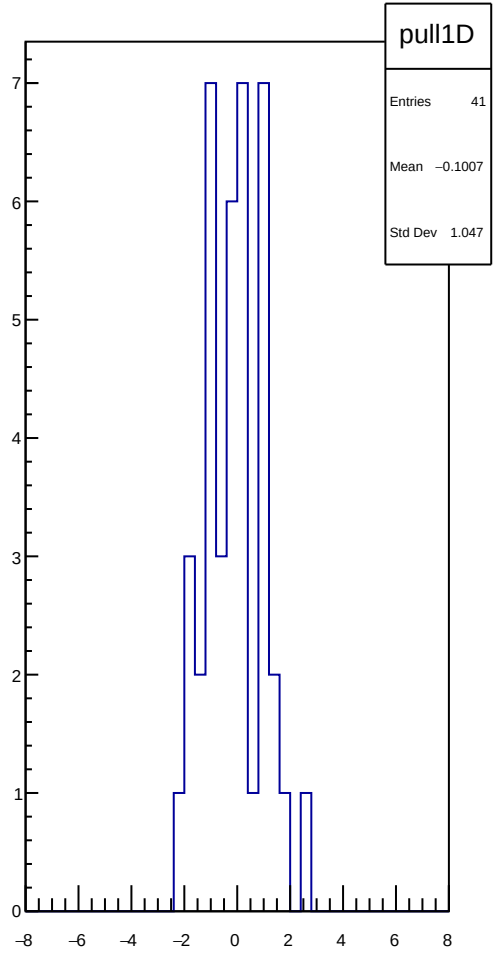


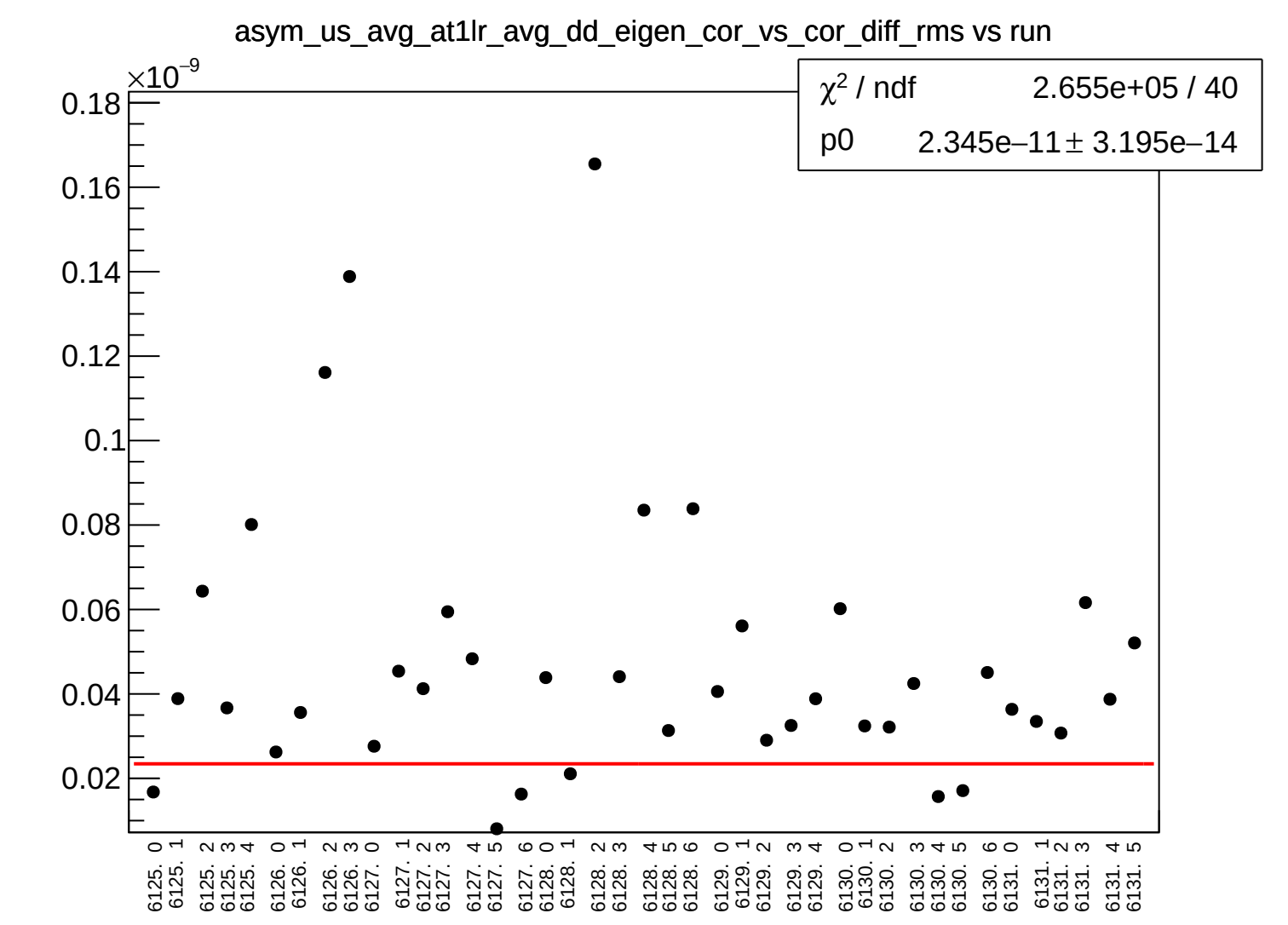


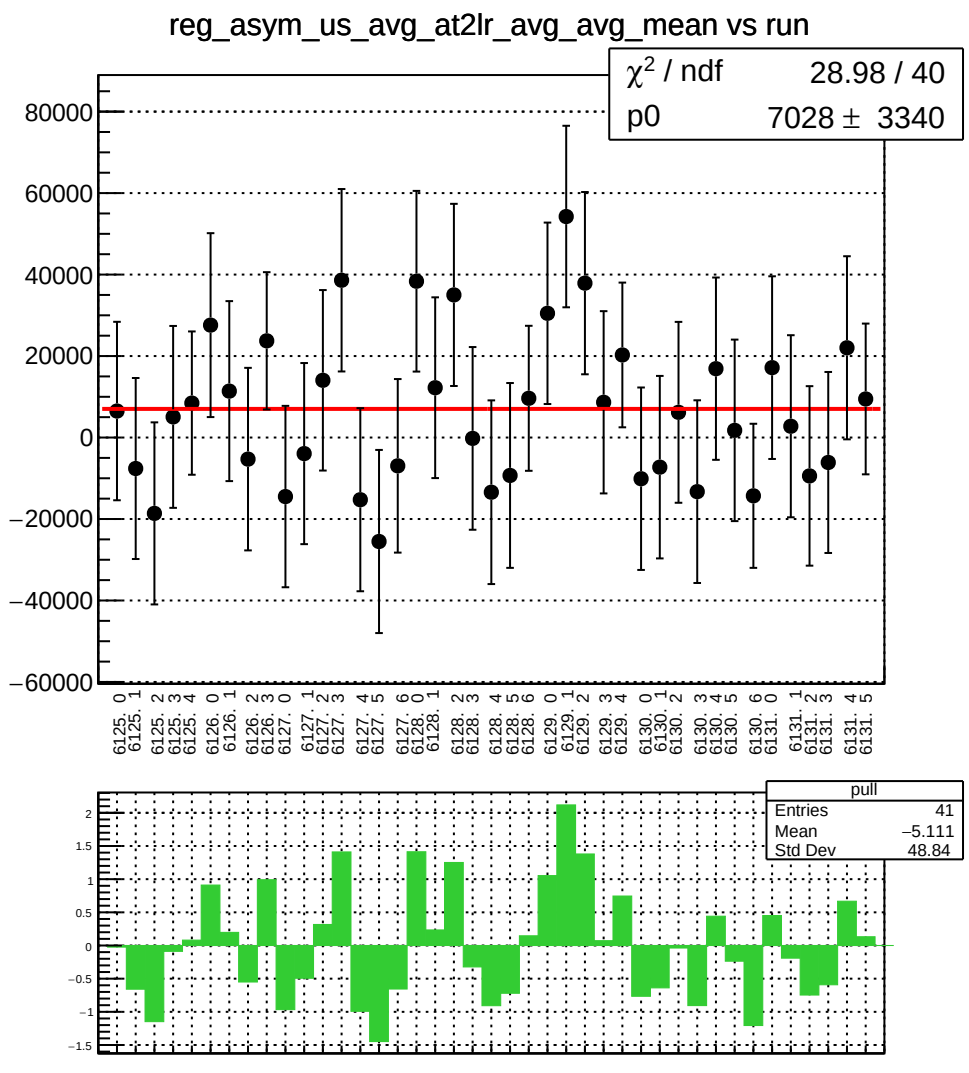


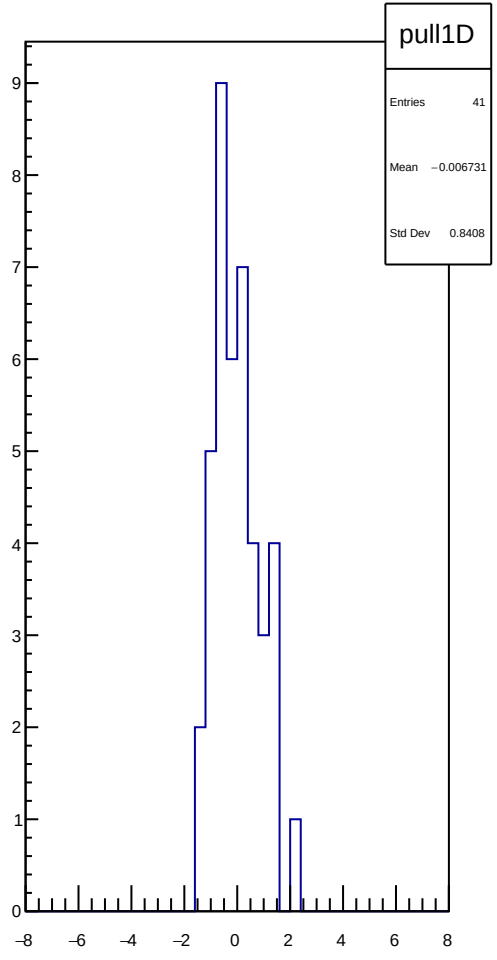

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ2 / ndf 9.975e+04 / 40
p0 55.49 ± 0.06611
120
100
80
60
40
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

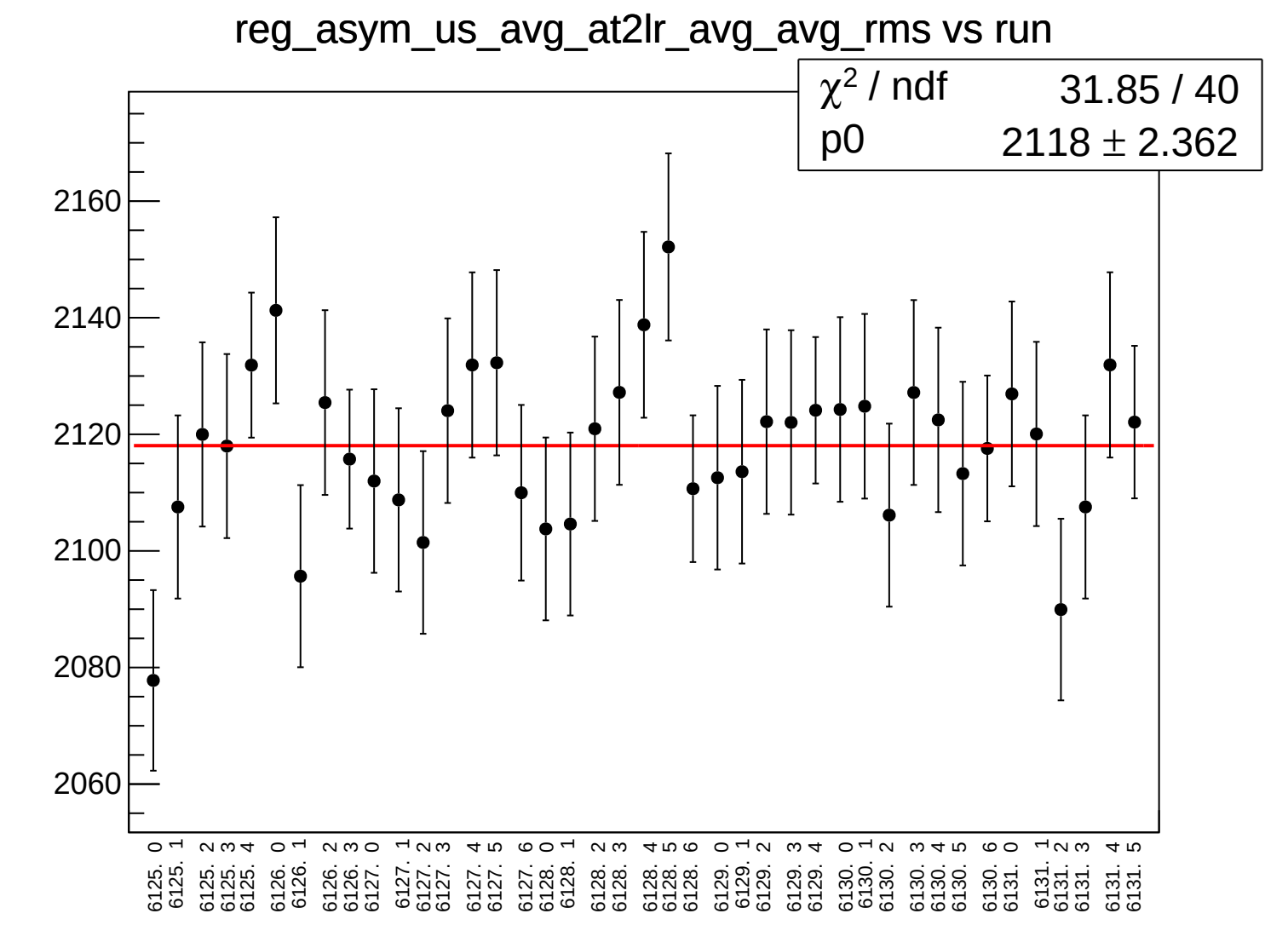

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 45.32 / 40
p0 3.683e−14 ± 4.518e−14
pull
Entries 41
Mean 22.97
Std Dev 0

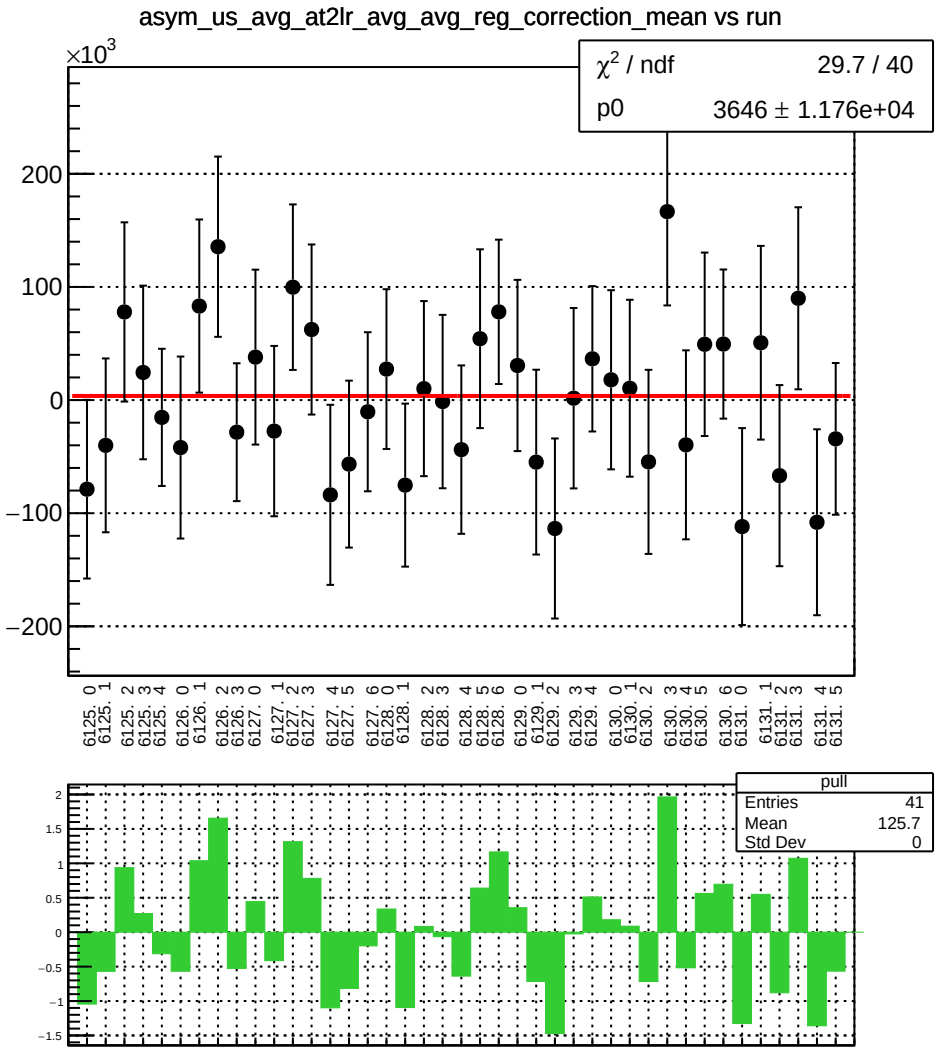

pull1D
Entries 41
Mean −0.1007
Std Dev 1.047

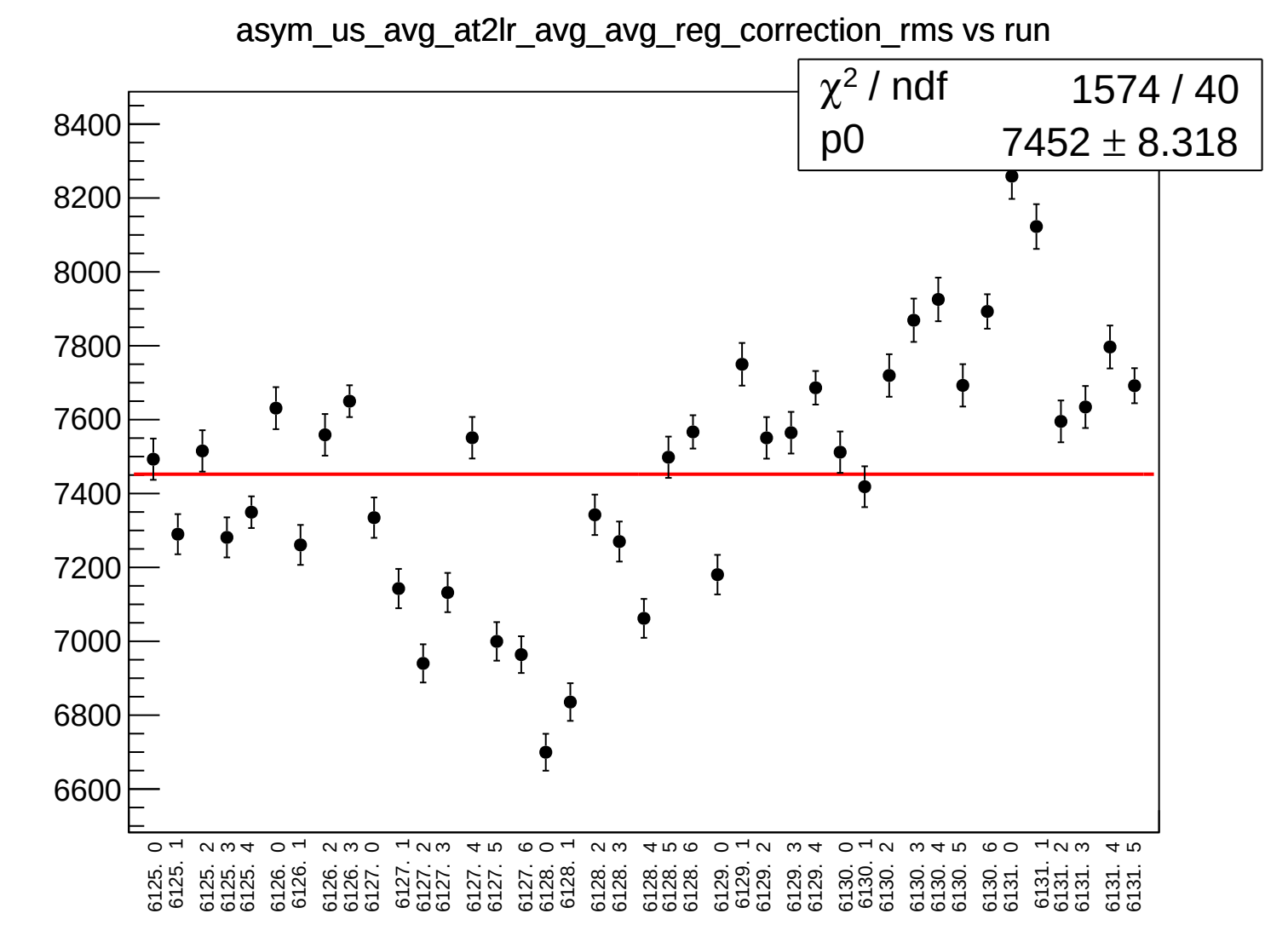

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.655e+05 / 40
p0 2.345e−11 ± 3.195e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

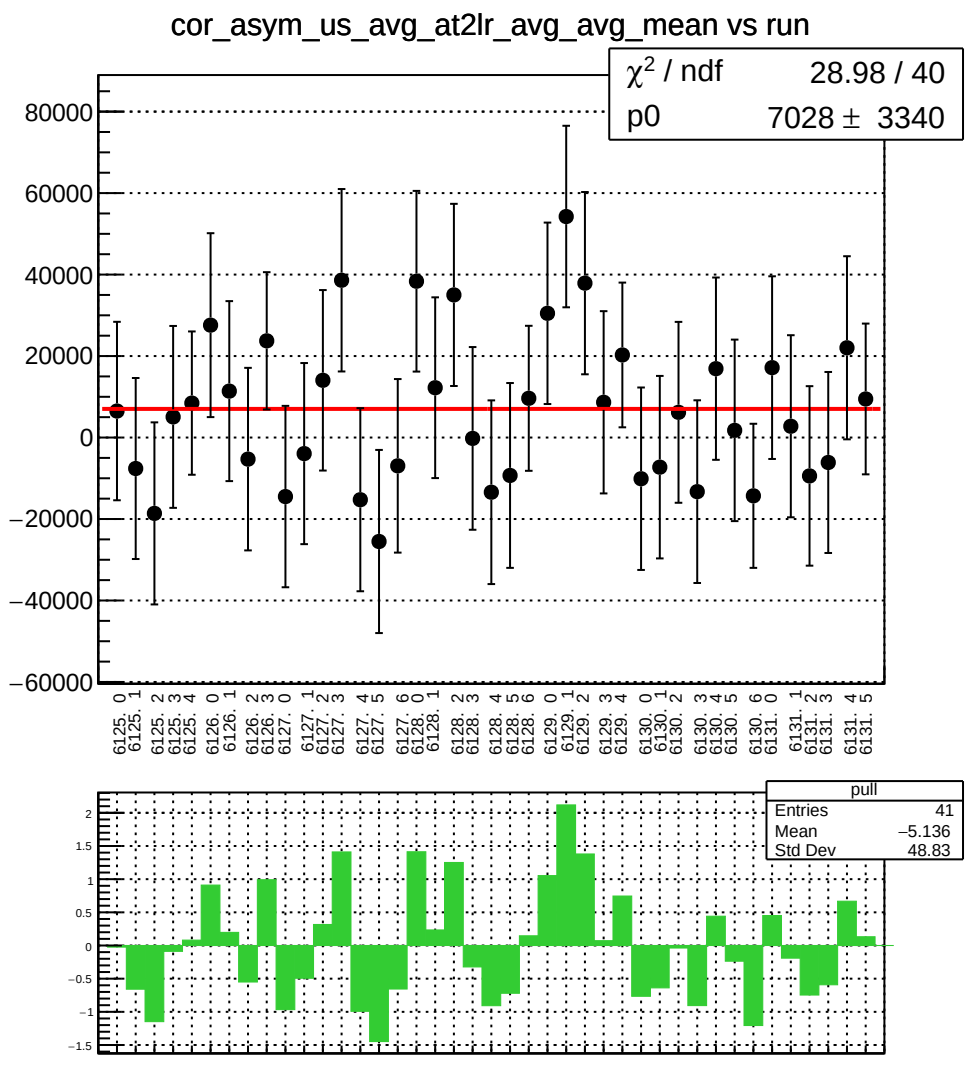

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 28.98 / 40
p0 7028 ± 3340
80000
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −5.111
Std Dev 48.84
2
1.5
1
0.5
0
−0.5
−1
−1.5

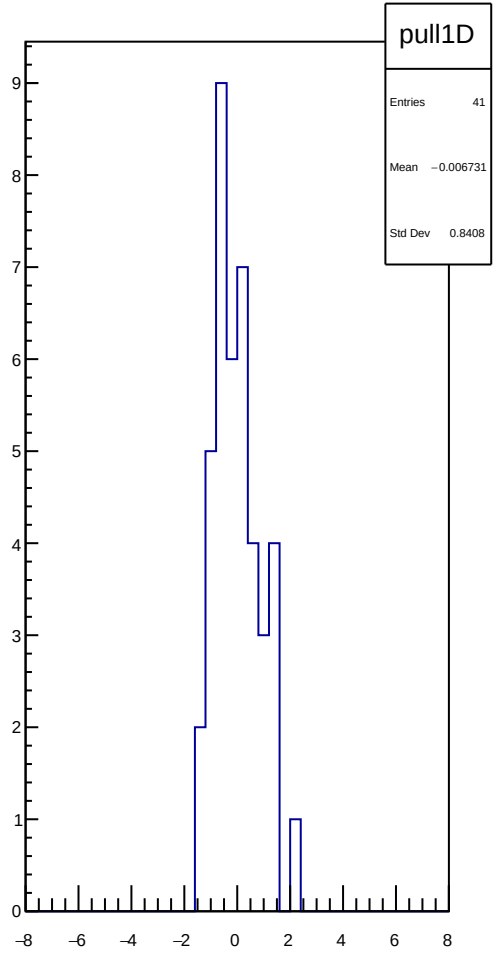

pull1D
Entries 41
Mean −0.006731
Std Dev 0.8408
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

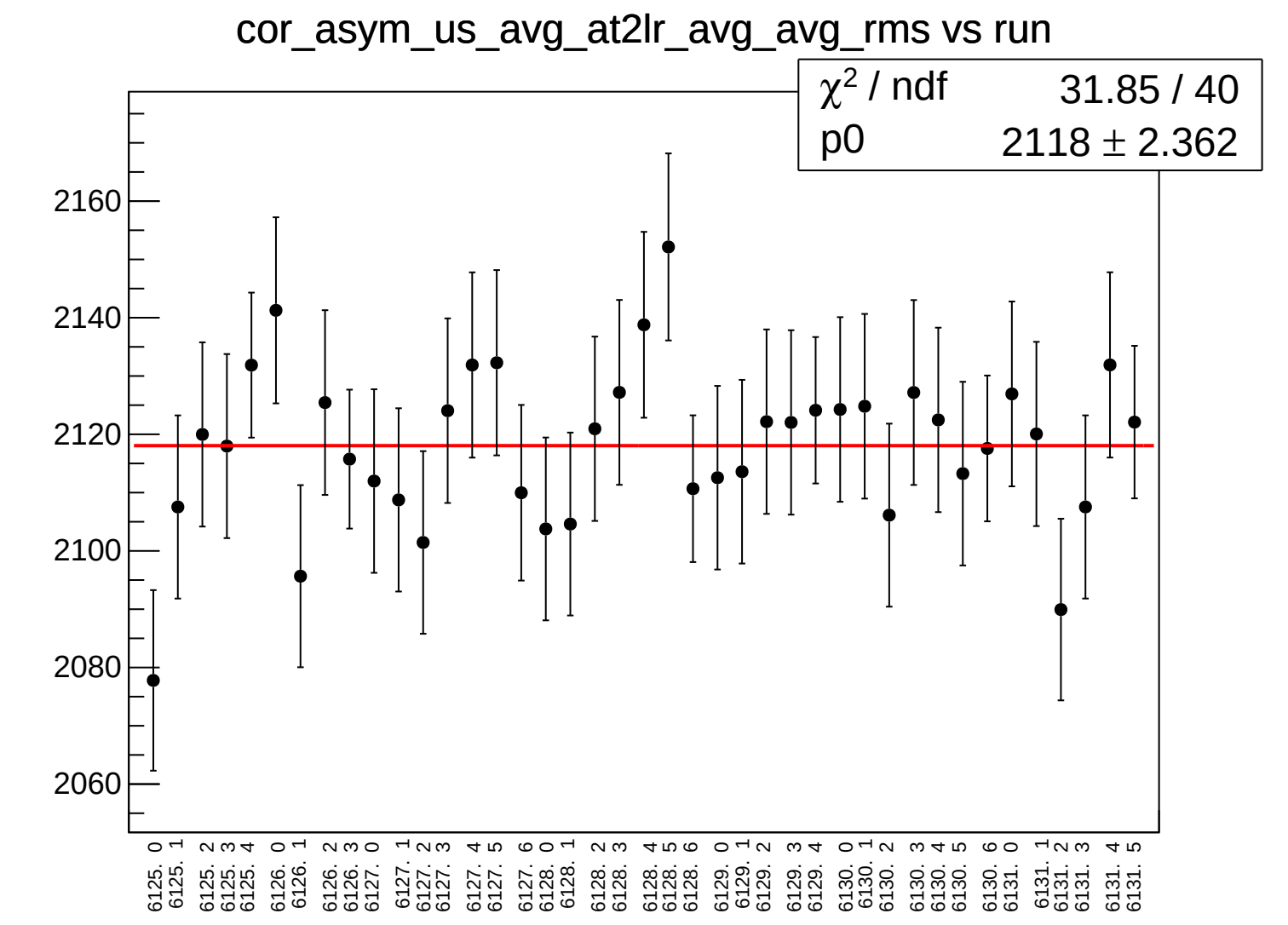

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 31.85 / 40
p0 2118 ± 2.362
2160
2140
2120
2100
2080
2060
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

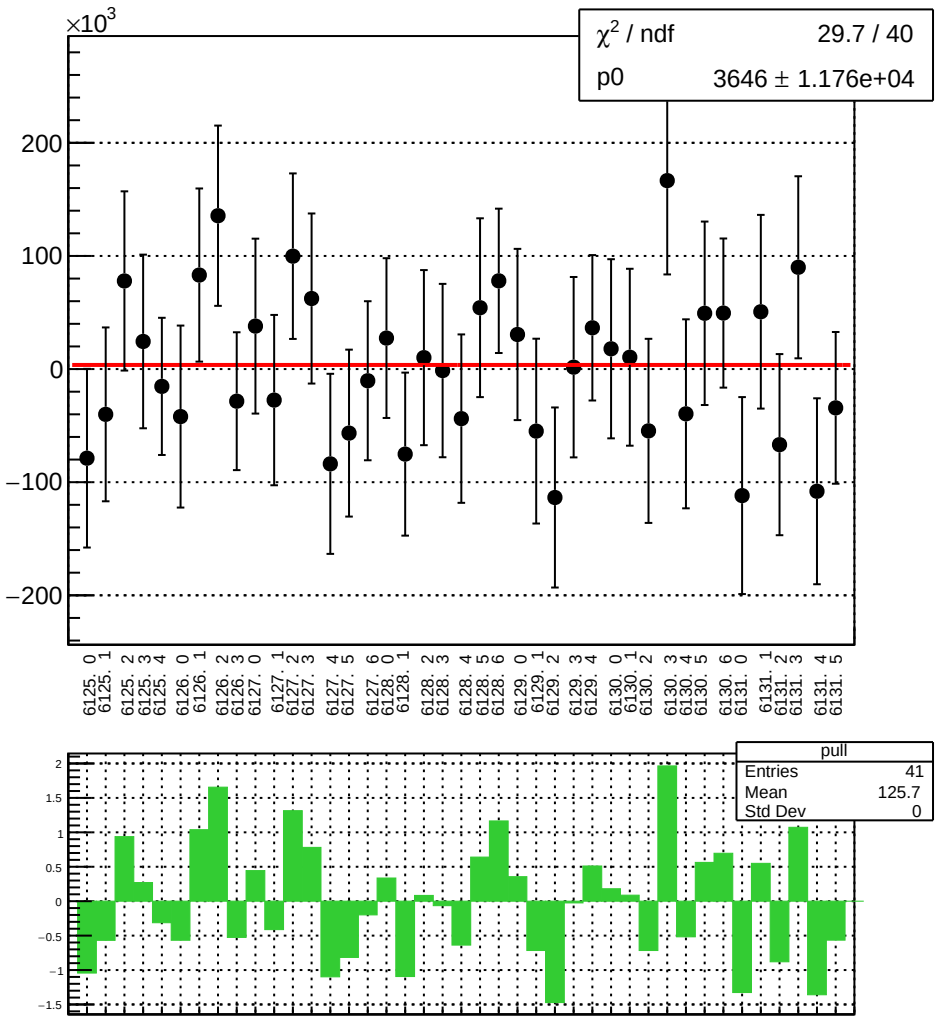

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 29.7 / 40
p0 3646 ± 1.176e+04
200
100
0
−100
−200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 125.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.006623
Std Dev 0.851
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

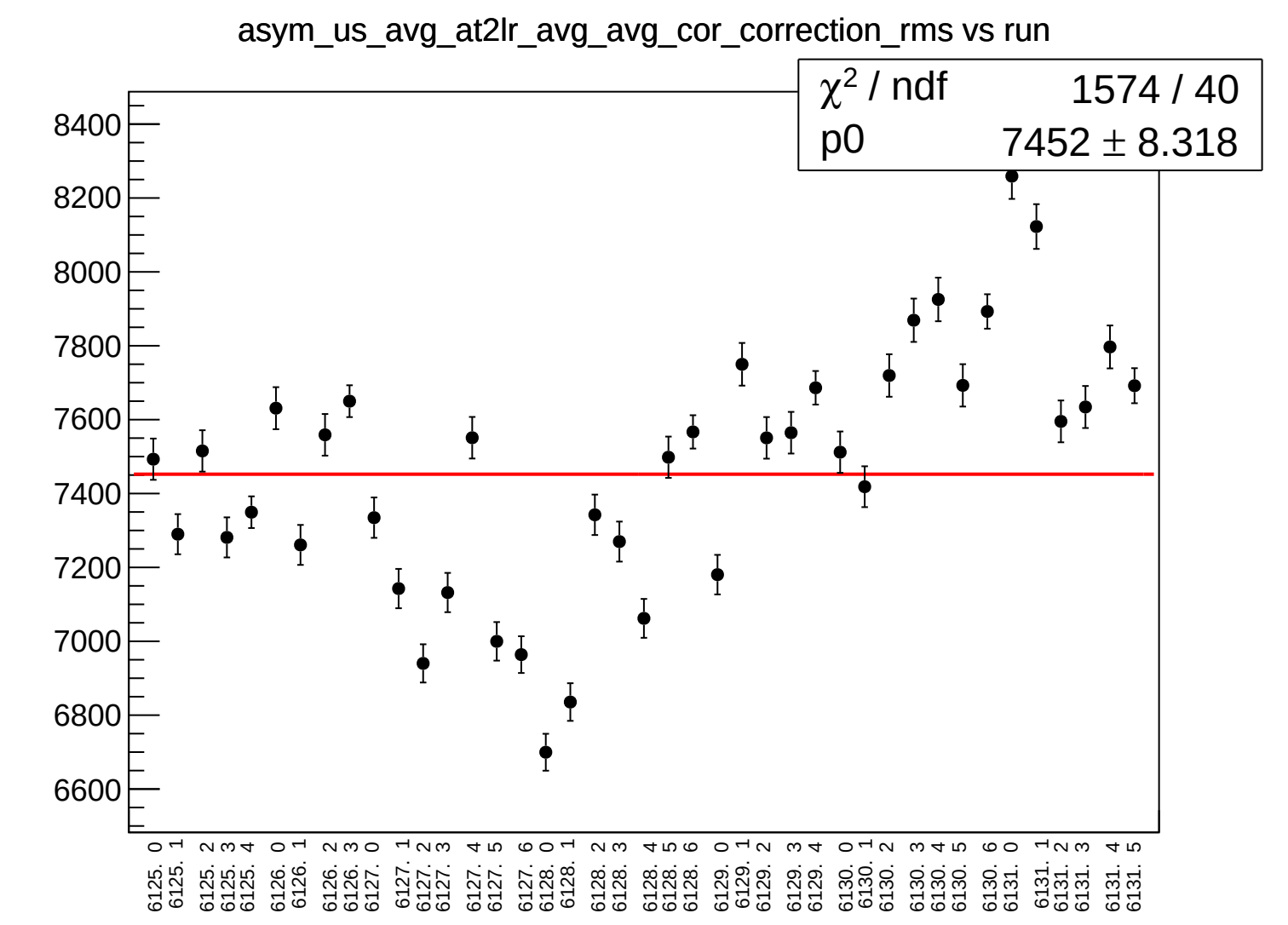

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1574 / 40
p0 7452 ± 8.318
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

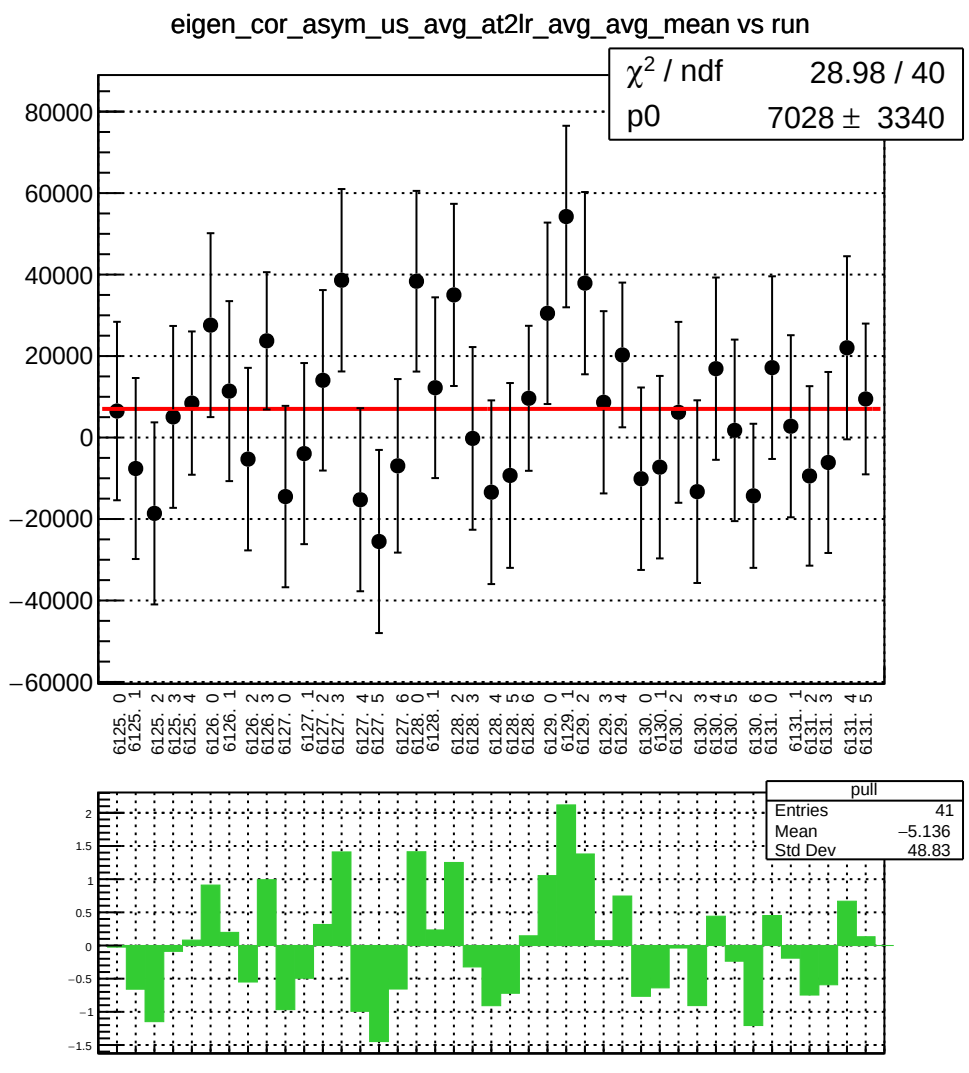

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 28.98 / 40
p0 7028 ± 3340
80000
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −5.136
Std Dev 48.83
2
1.5
1
0.5
0
−0.5
−1
−1.5

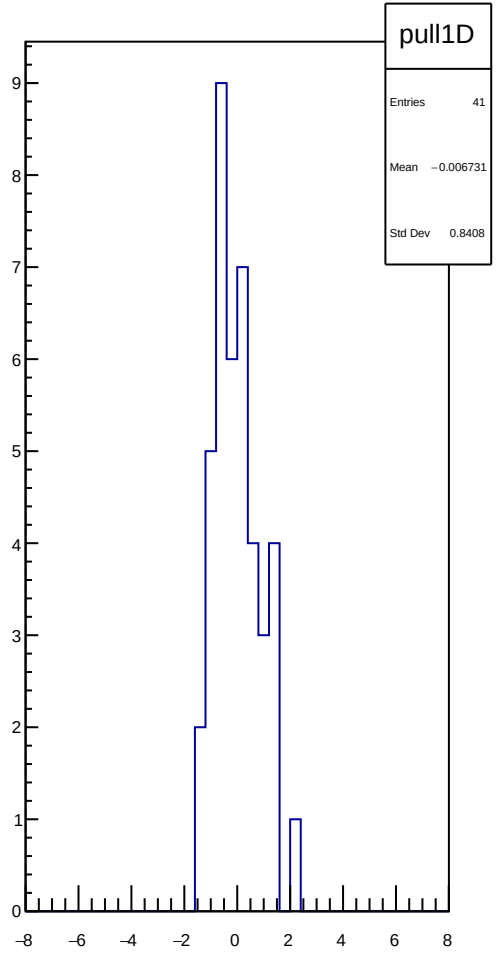

pull1D
Entries 41
Mean −0.006731
Std Dev 0.8408
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

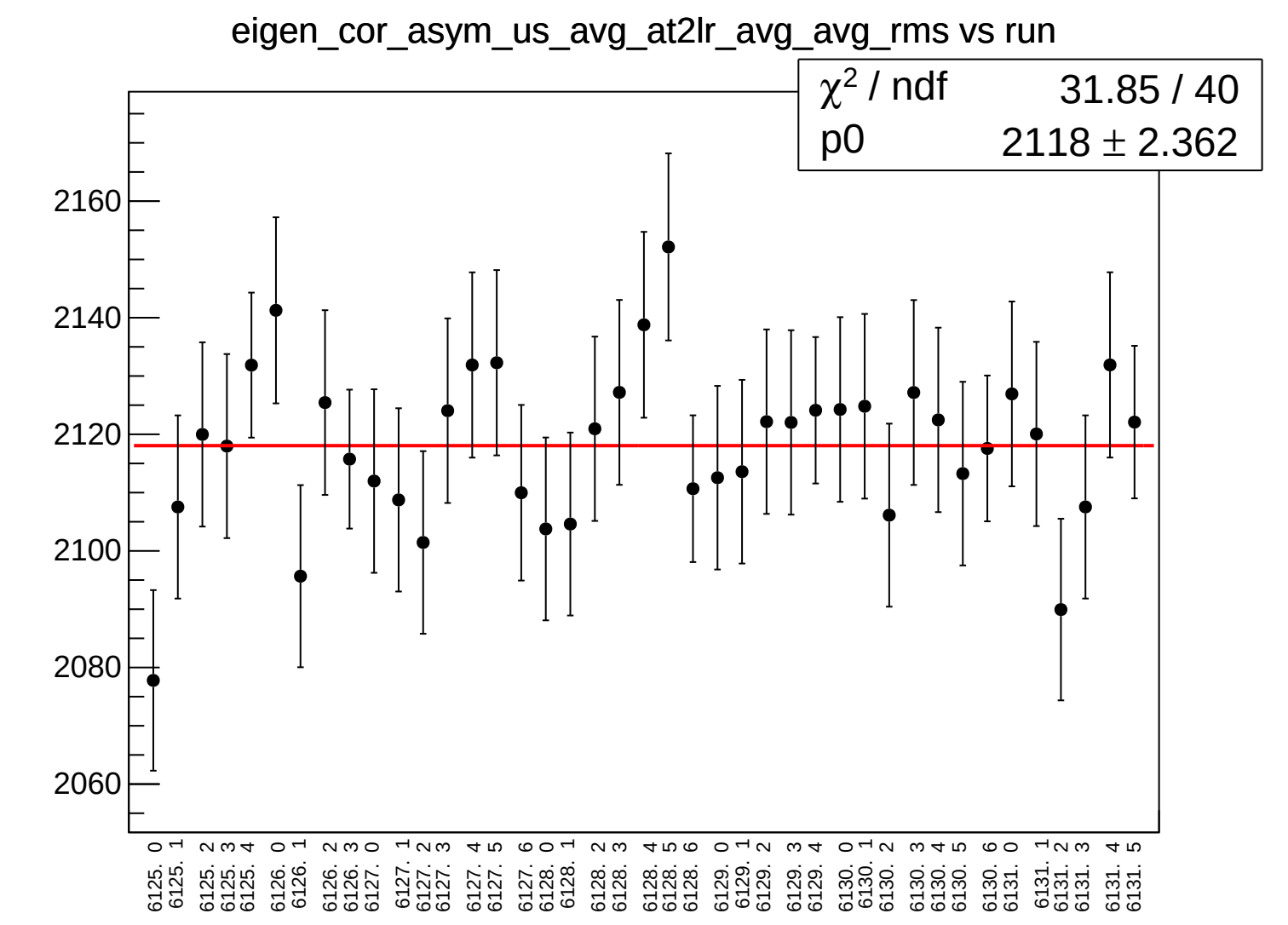

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 31.85 / 40
p0 2118 ± 2.362
2160
2140
2120
2100
2080
2060
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

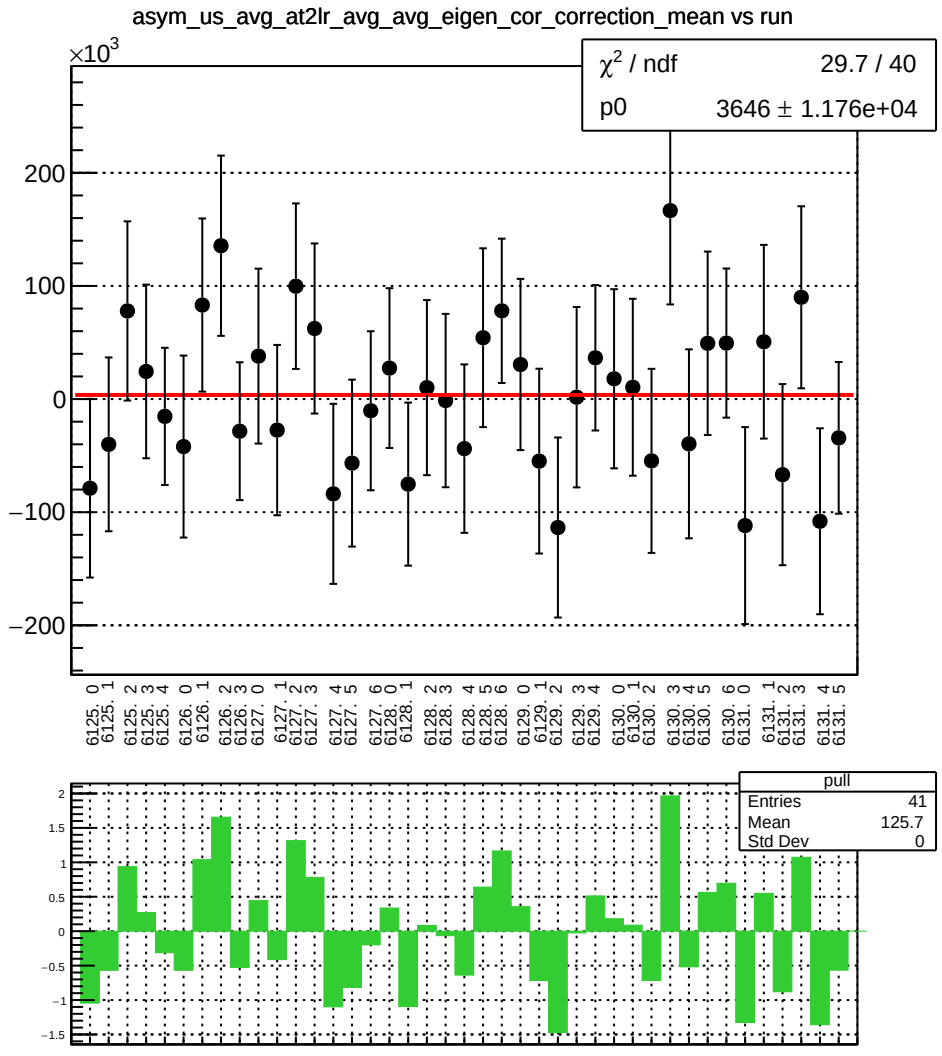

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 29.7 / 40
p0 3646 ± 1.176e+04
200
100
0
−100
−200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 125.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.006623
Std Dev 0.851
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

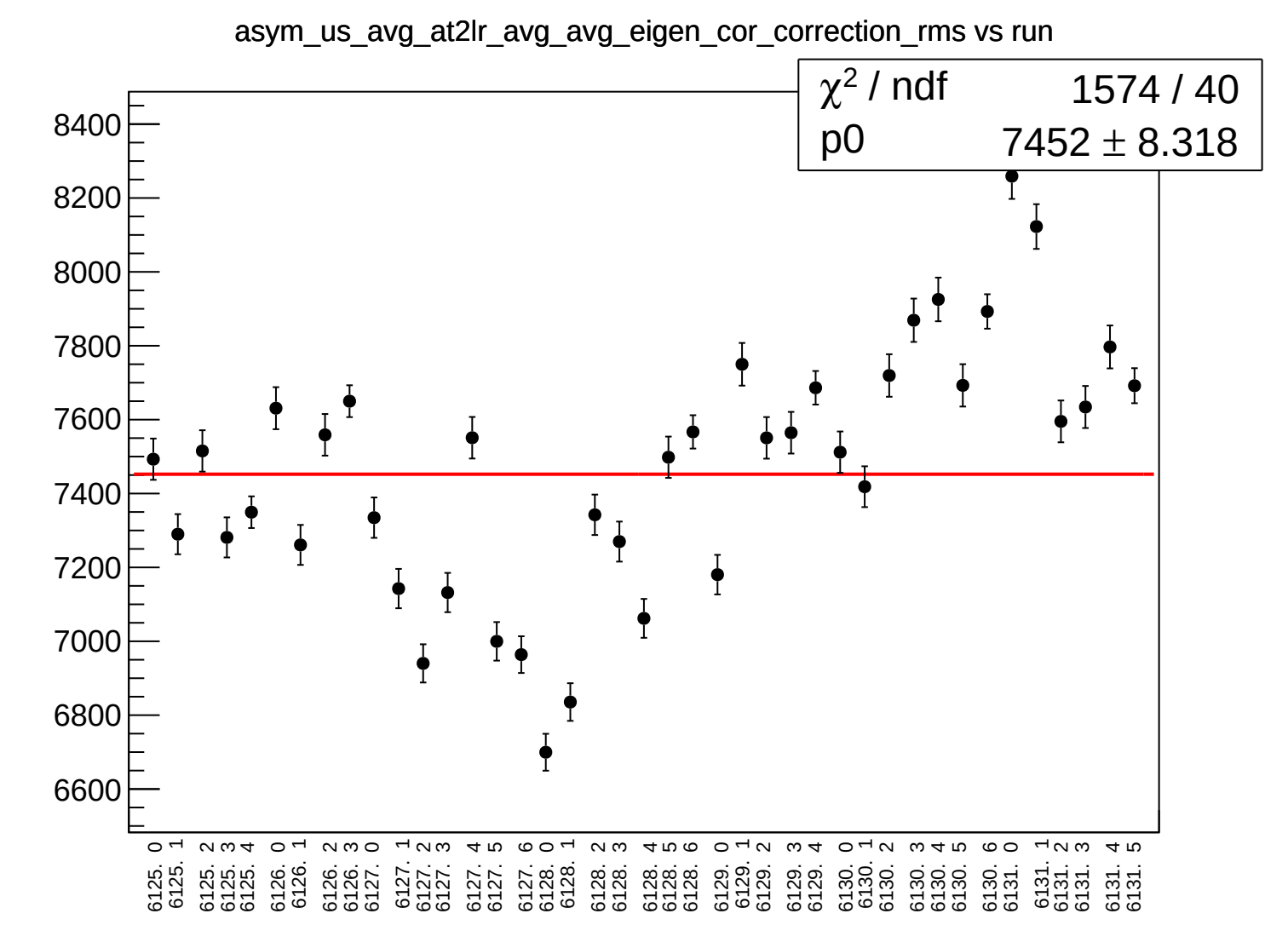

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1574 / 40
p0 7452 ± 8.318
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

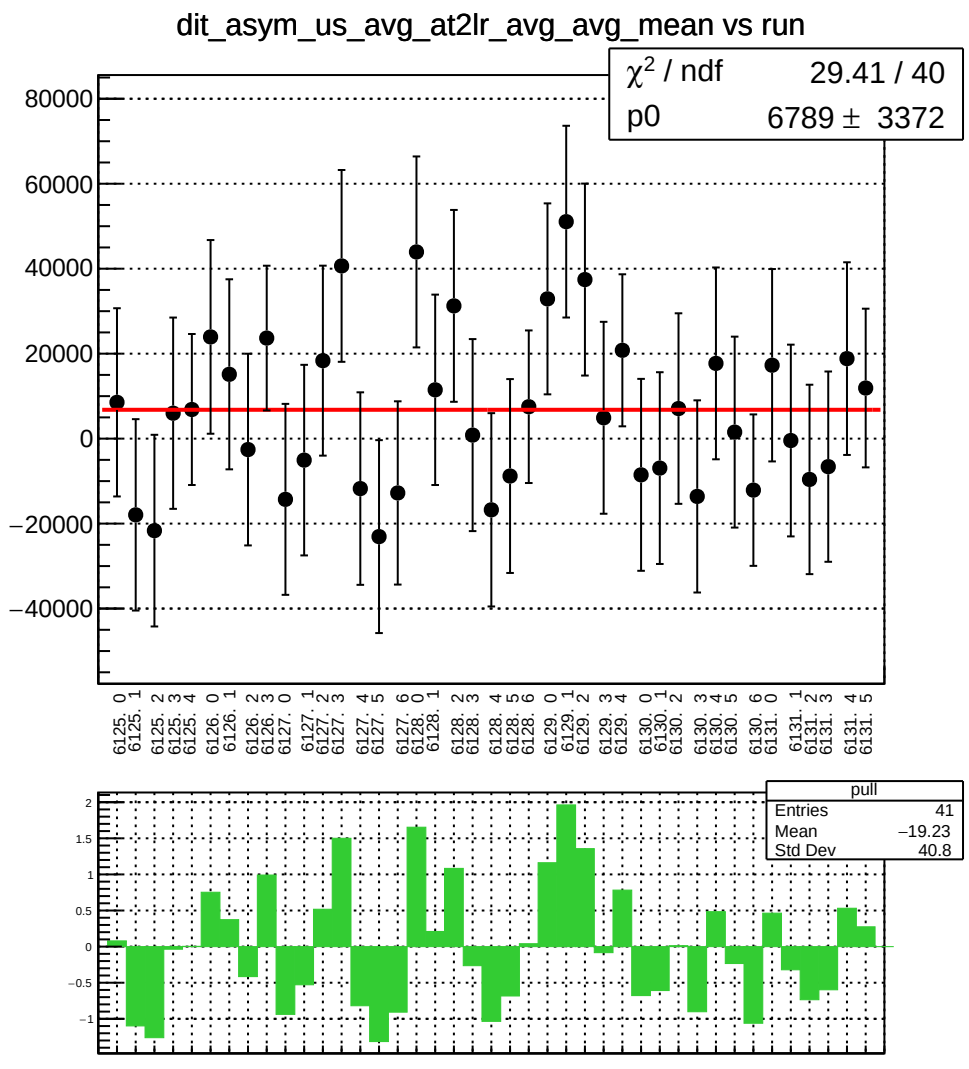

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 28.98 / 40
p0 7028 ± 3340
pull
Entries 41
Mean −5.136
Std Dev 48.83

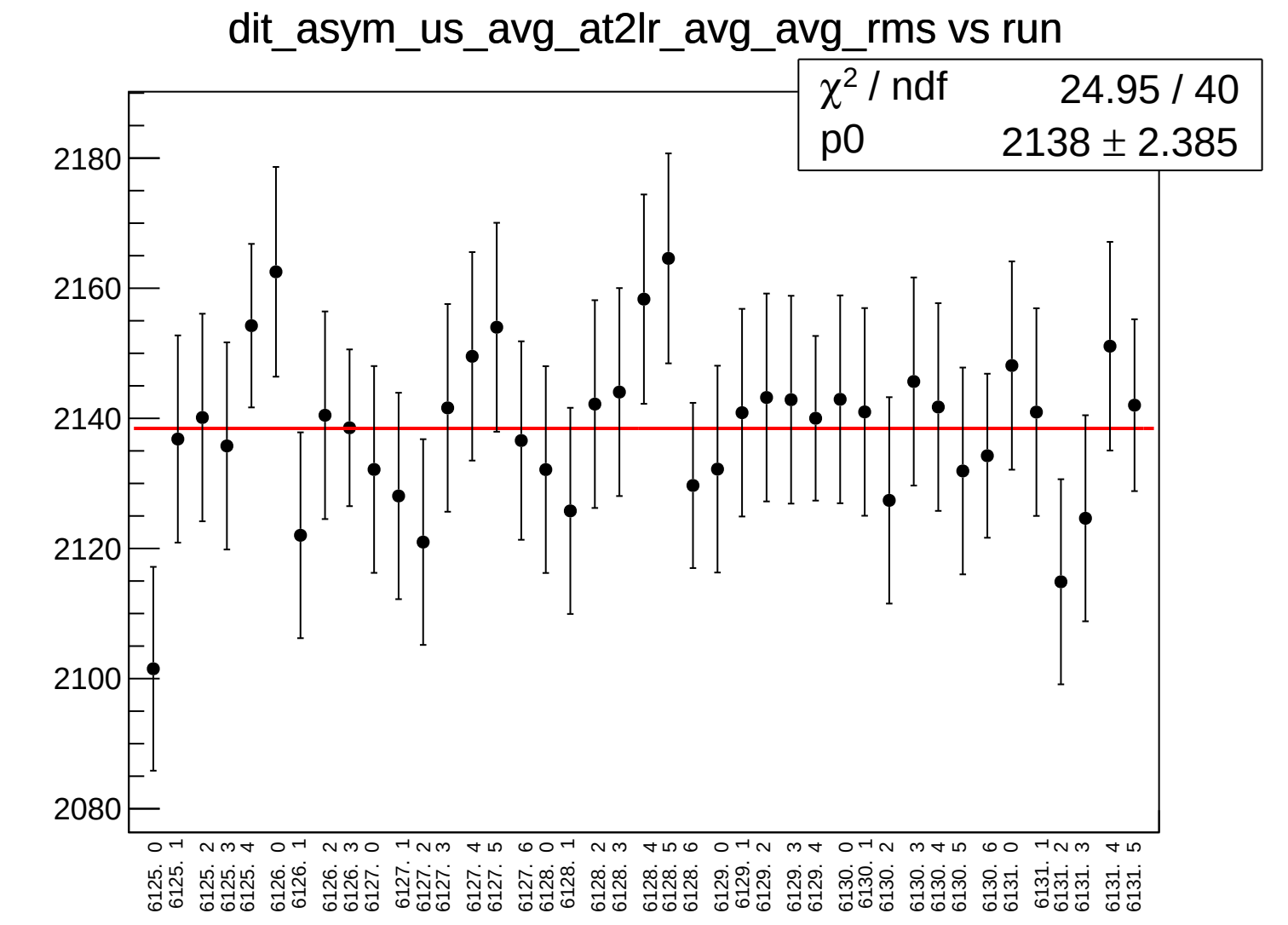

pull1D
Entries 41
Mean −0.006731
Std Dev 0.8408

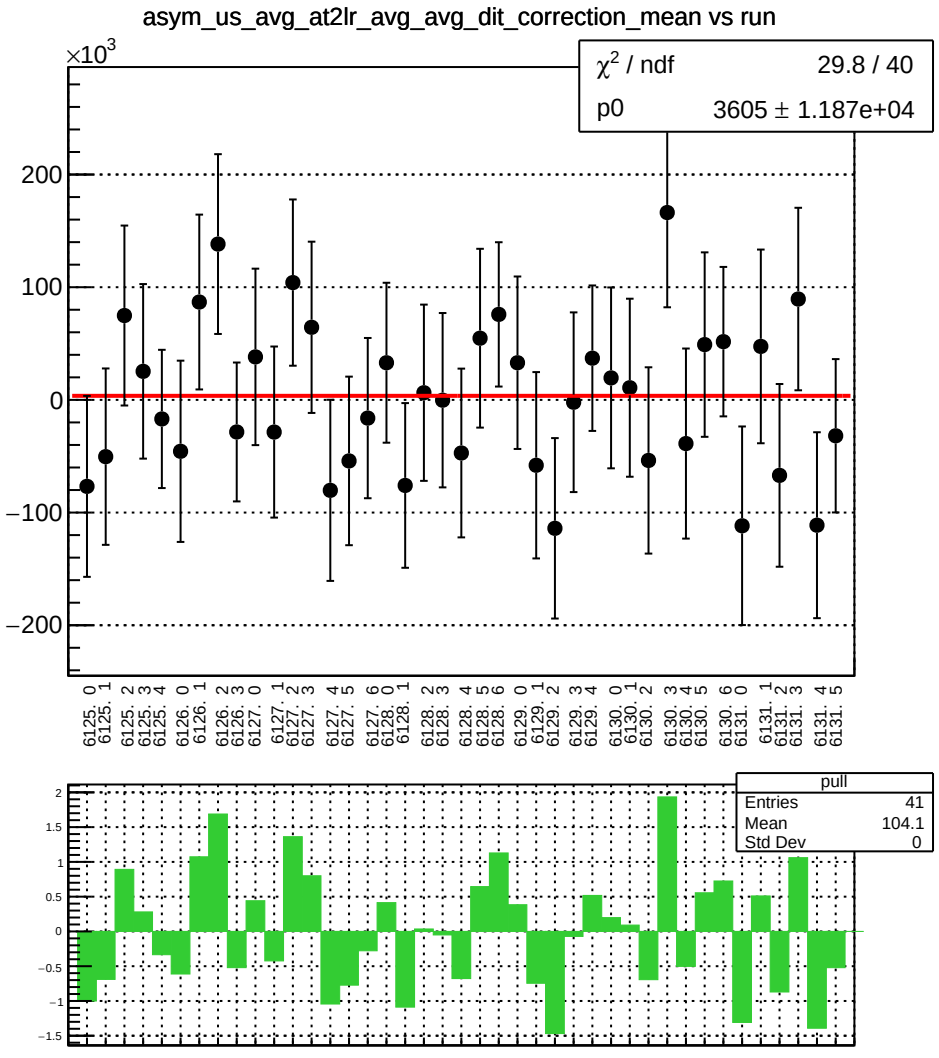

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 31.85 / 40
p0 2118 ± 2.362
2160
2140
2120
2100
2080
2060
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

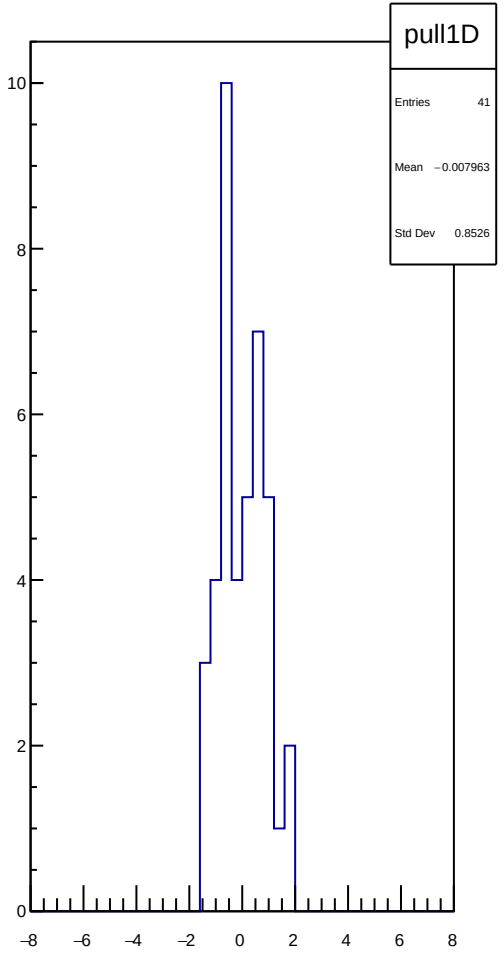

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 29.7 / 40
p0 3646 ± 1.176e+04
200
100
0
−100
−200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 125.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.006623
Std Dev 0.851
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

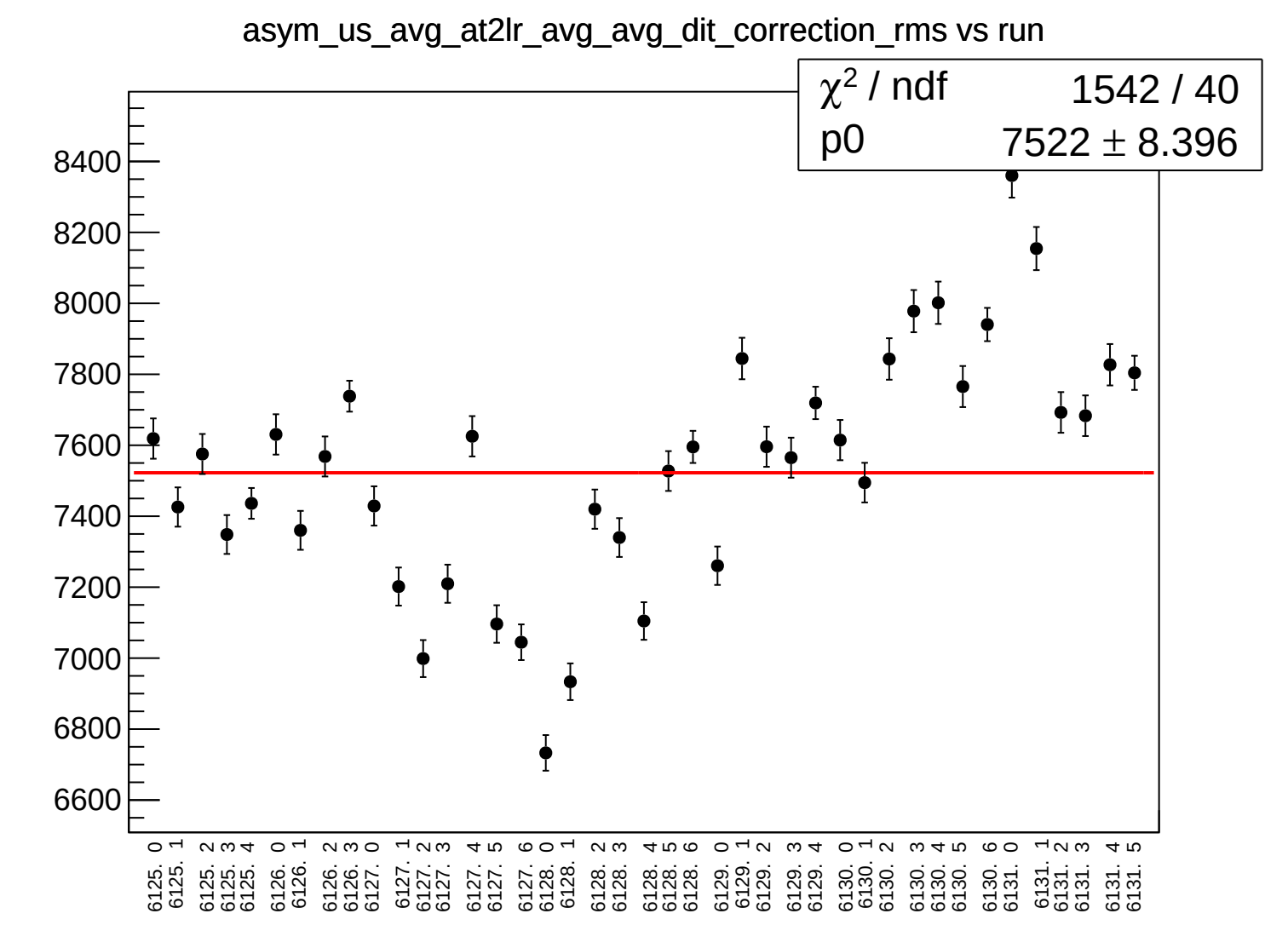

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1574 / 40
p0 7452 ± 8.318
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

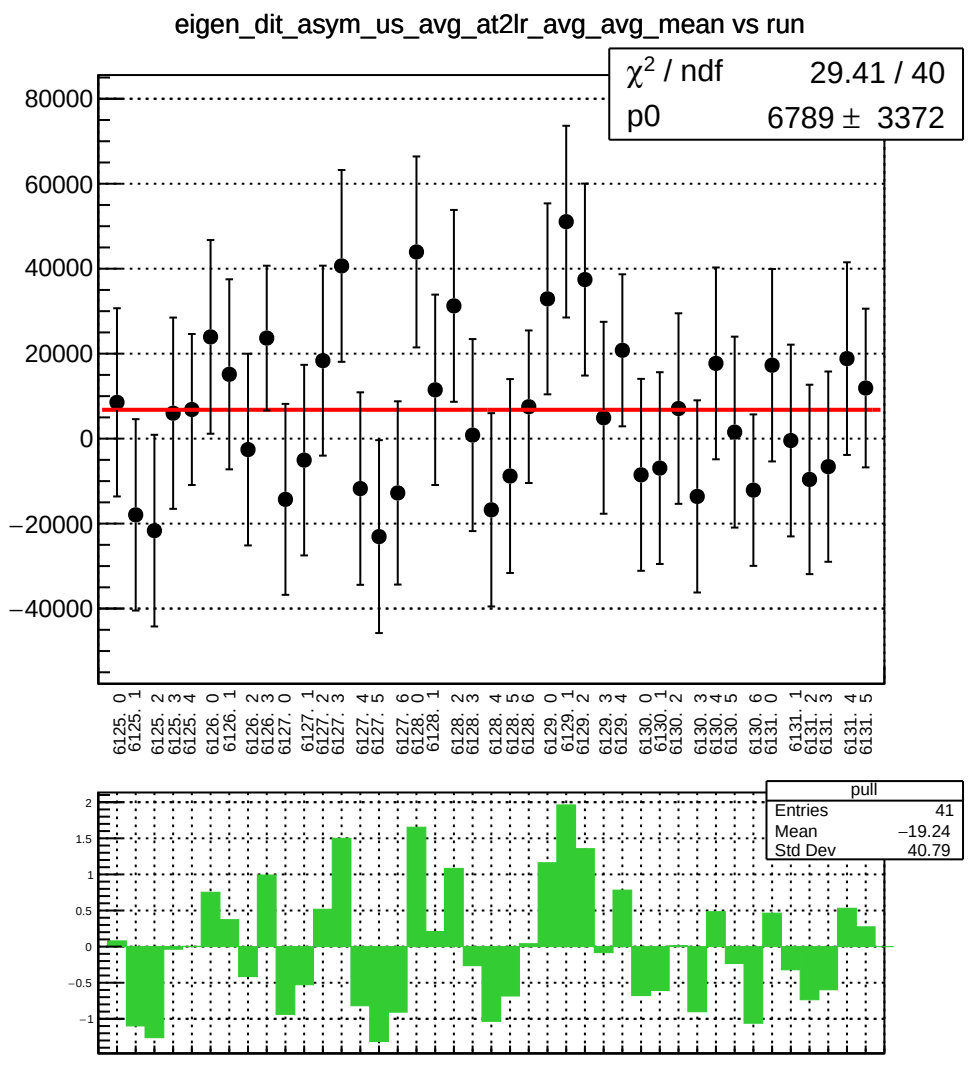

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 29.41 / 40
p0 6789 ± 3372
80000
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −19.23
Std Dev 40.8
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.006948
Std Dev 0.847
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

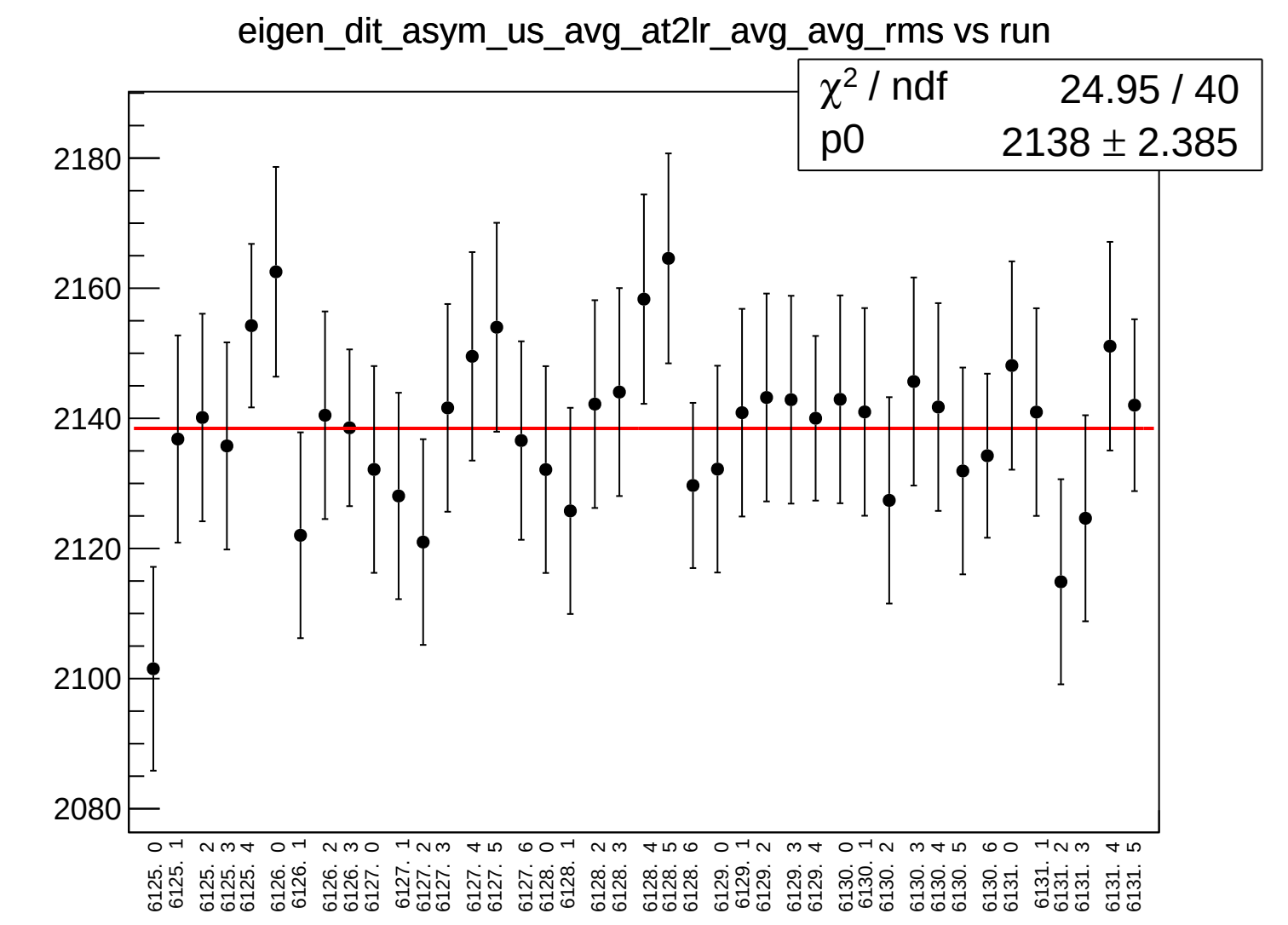

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 24.95 / 40
p0 2138 ± 2.385
2180
2160
2140
2120
2100
2080
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

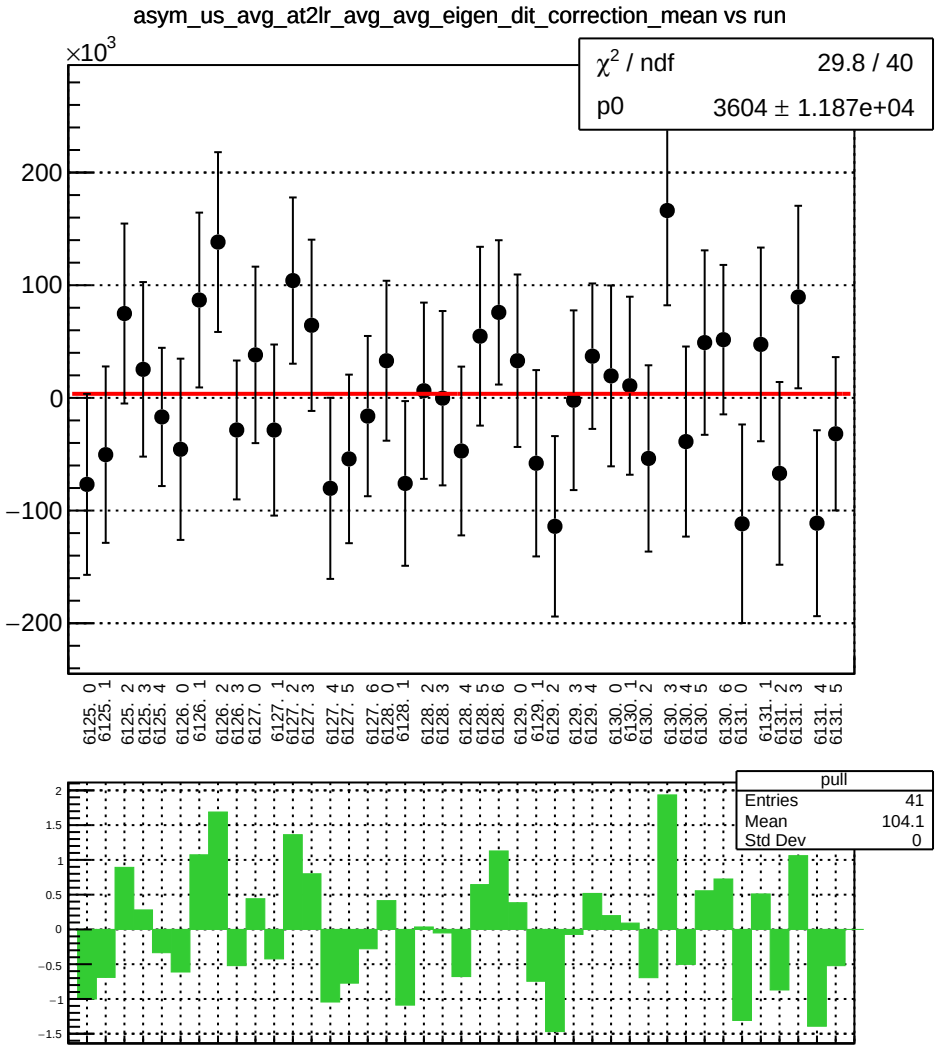

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 29.8 / 40
p0 3605 ± 1.187e+04
200
100
0
−100
−200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 104.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

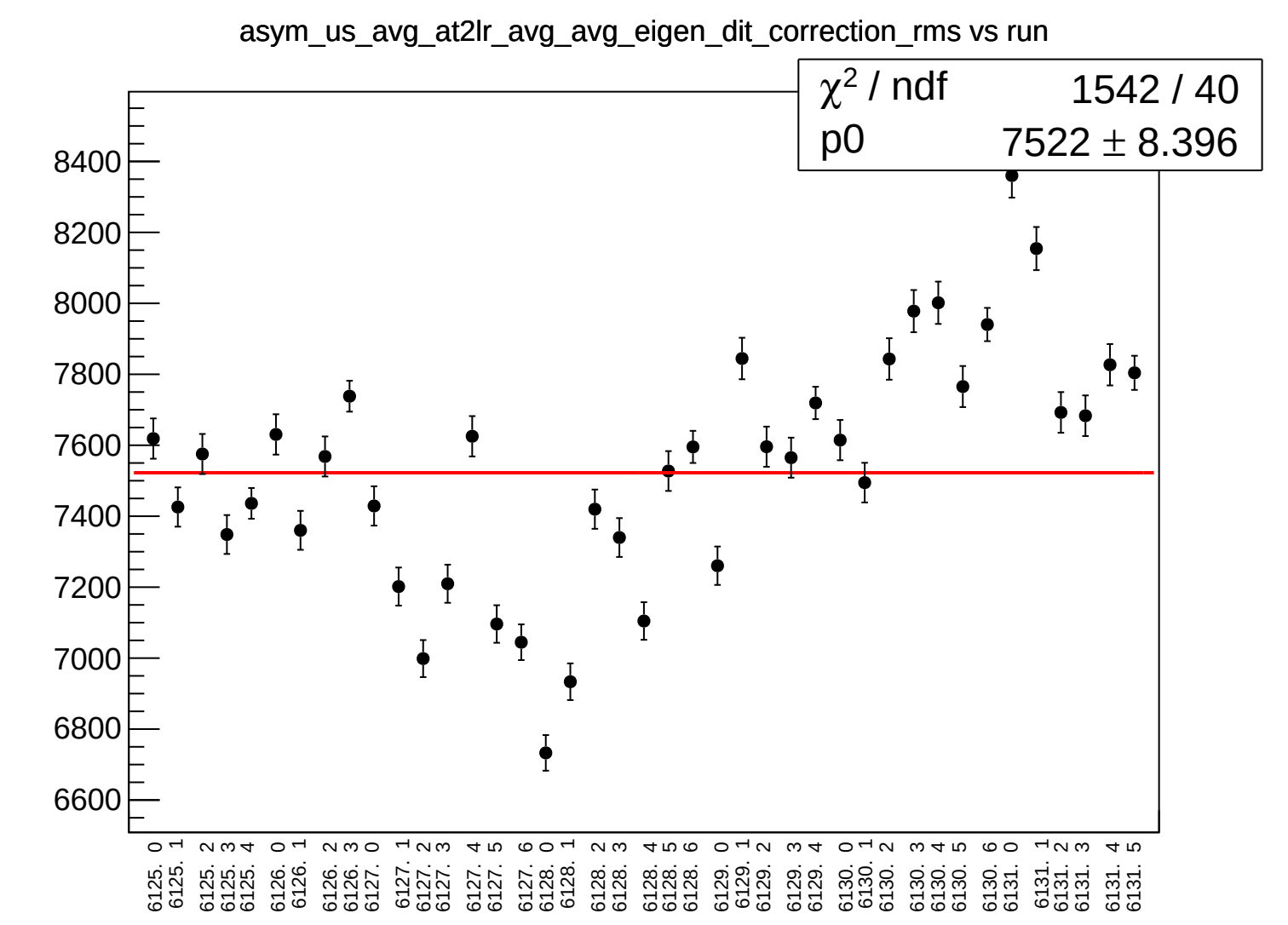

pull1D
Entries 41
Mean −0.007963
Std Dev 0.8526
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

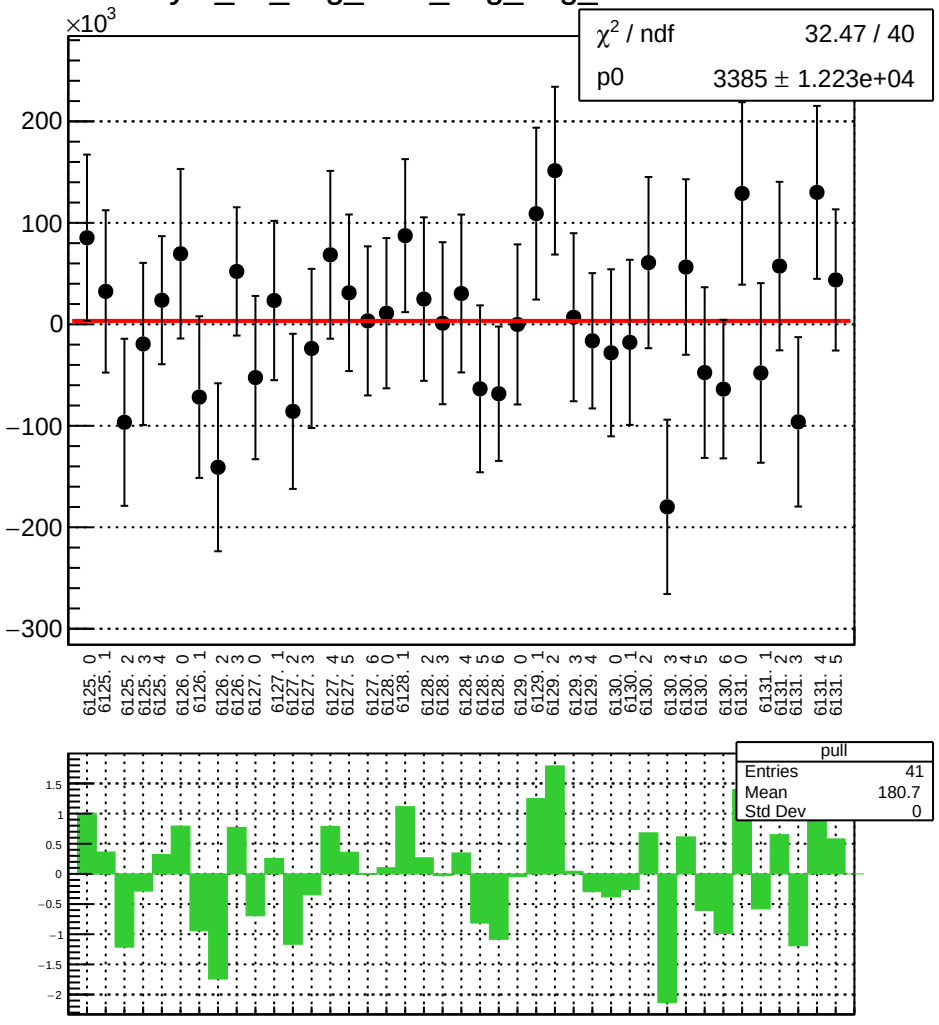

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1542 / 40
p0 7522 ± 8.396
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

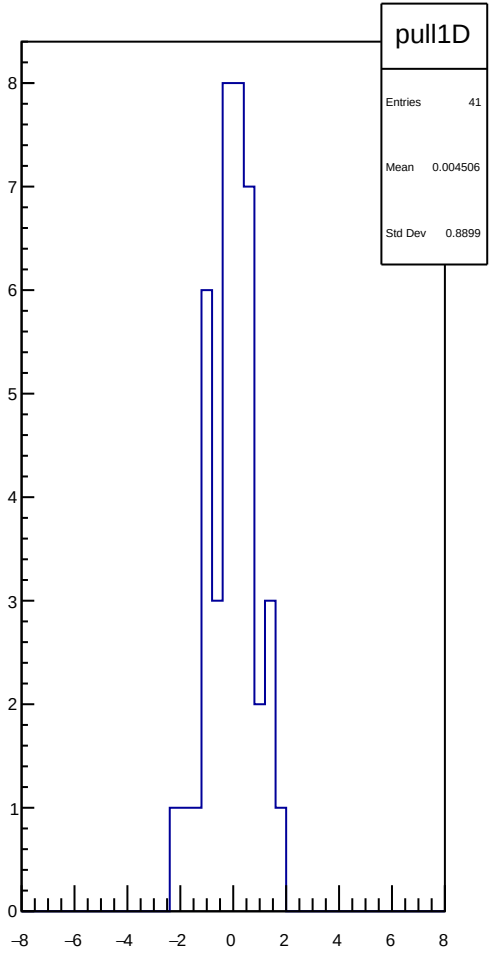

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 29.41 / 40
p0 6789 ± 3372
80000
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −19.24
Std Dev 40.79
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.006948
Std Dev 0.847
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

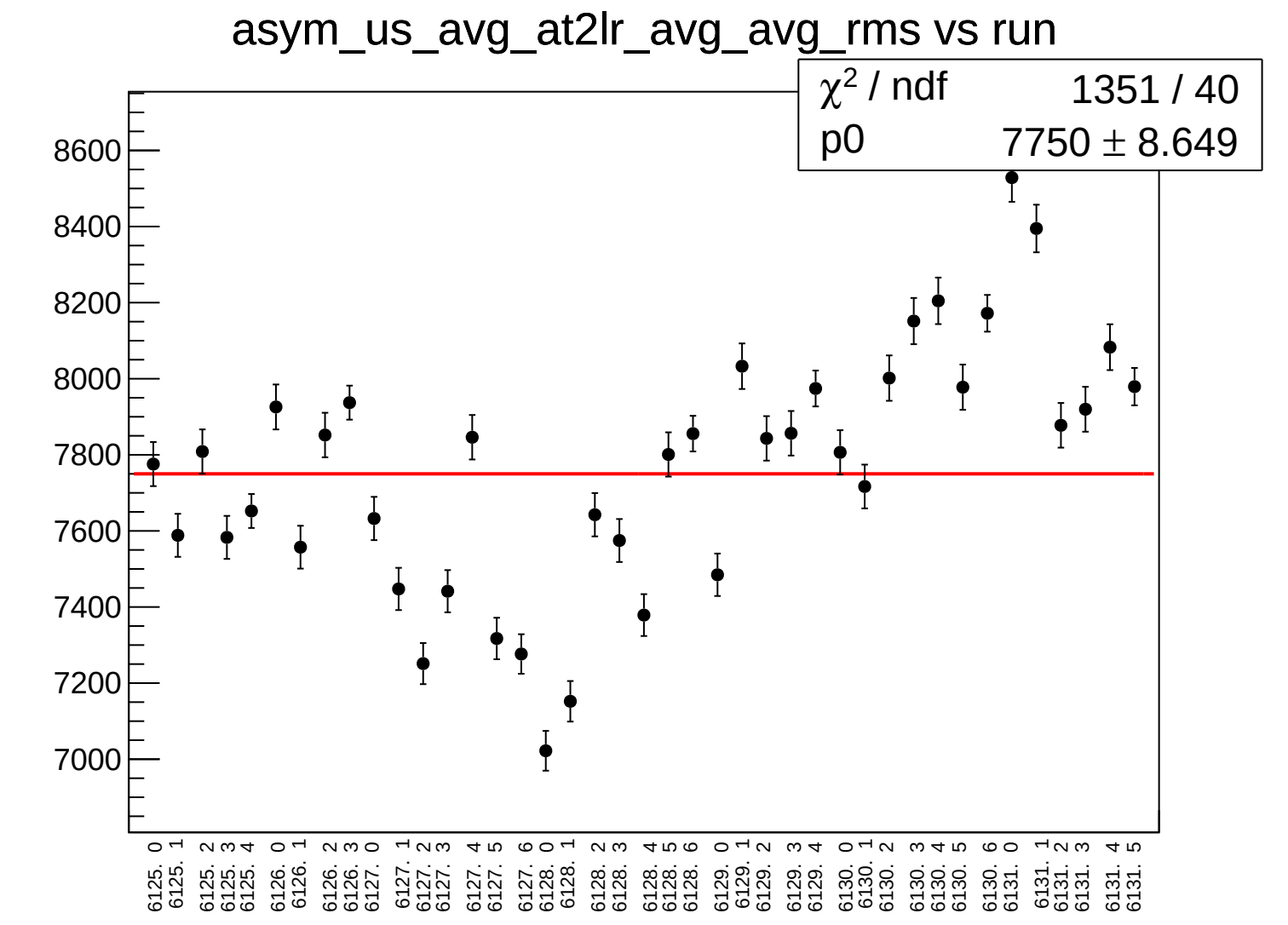

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 24.95 / 40
p0 2138 ± 2.385
2180
2160
2140
2120
2100
2080
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

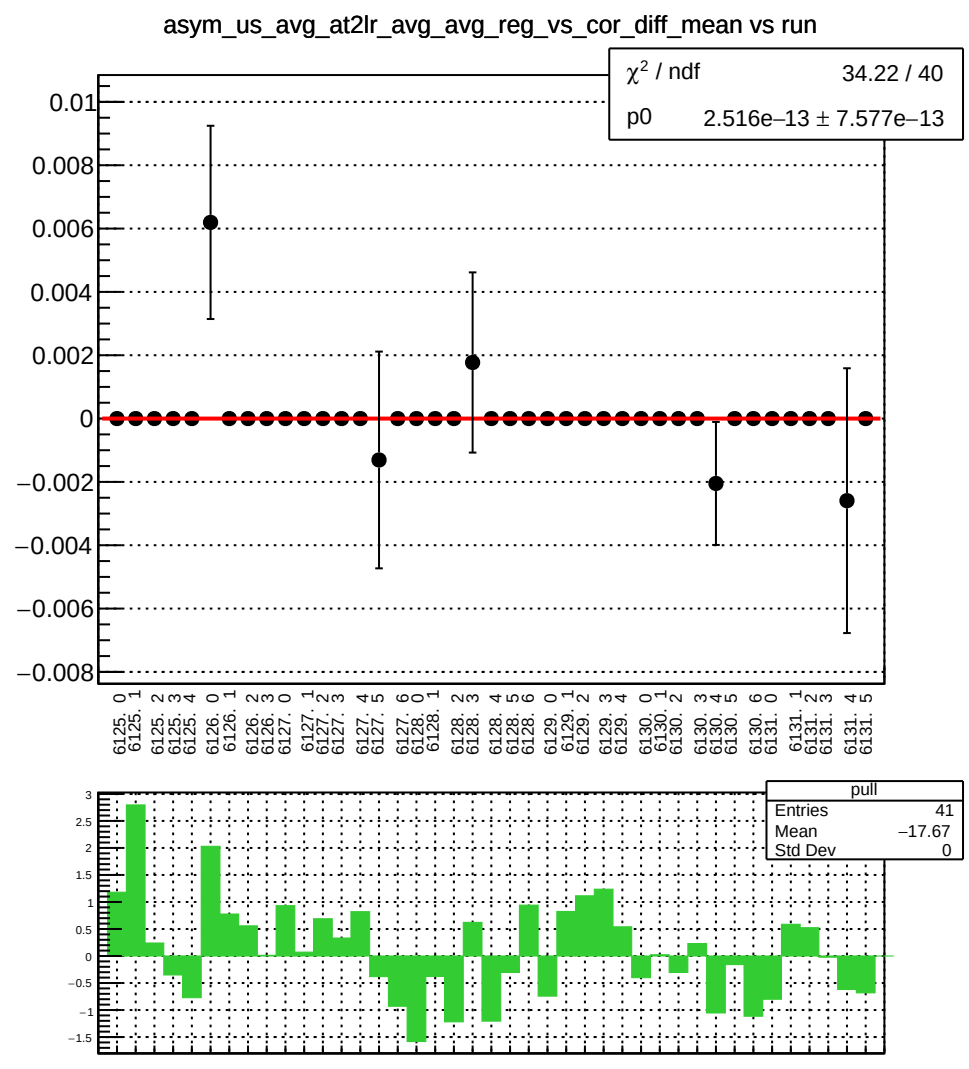

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 29.8 / 40
p0 3604 ± 1.187e+04
200
100
0
−100
−200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 104.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.007963
Std Dev 0.8526
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

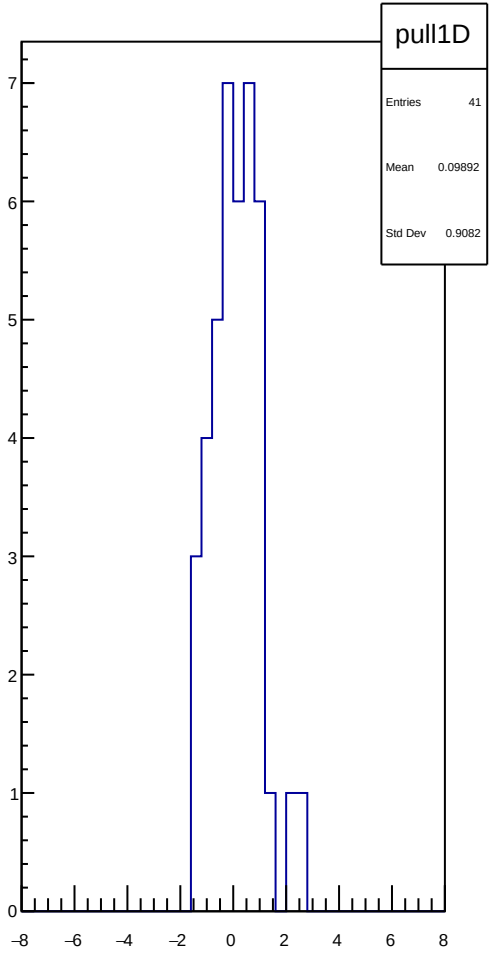

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1542 / 40
p0 7522 ± 8.396
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

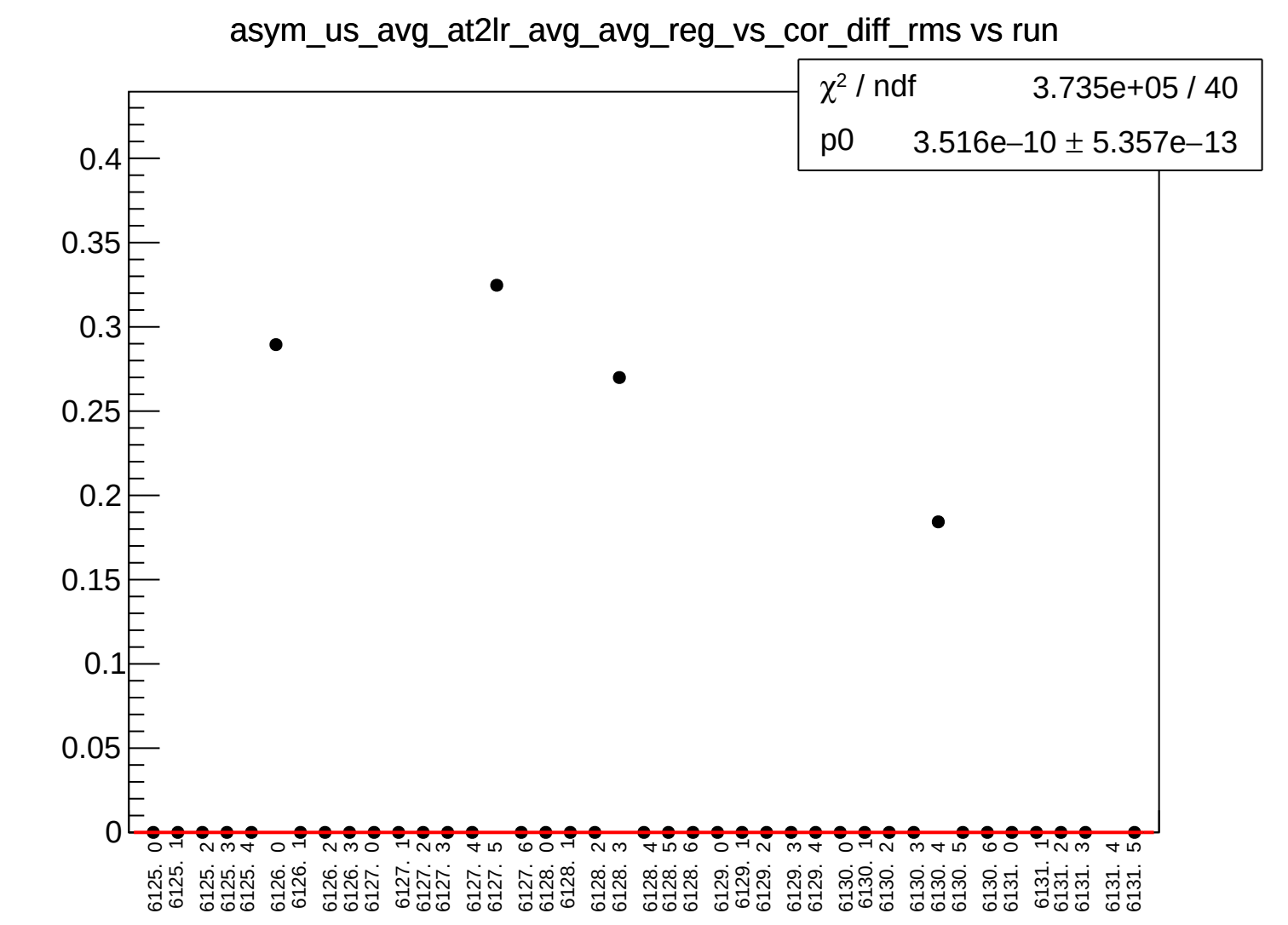

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 32.47 / 40
p0 3385 ± 1.223e+04
200
100
0
−100
−200
−300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 180.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

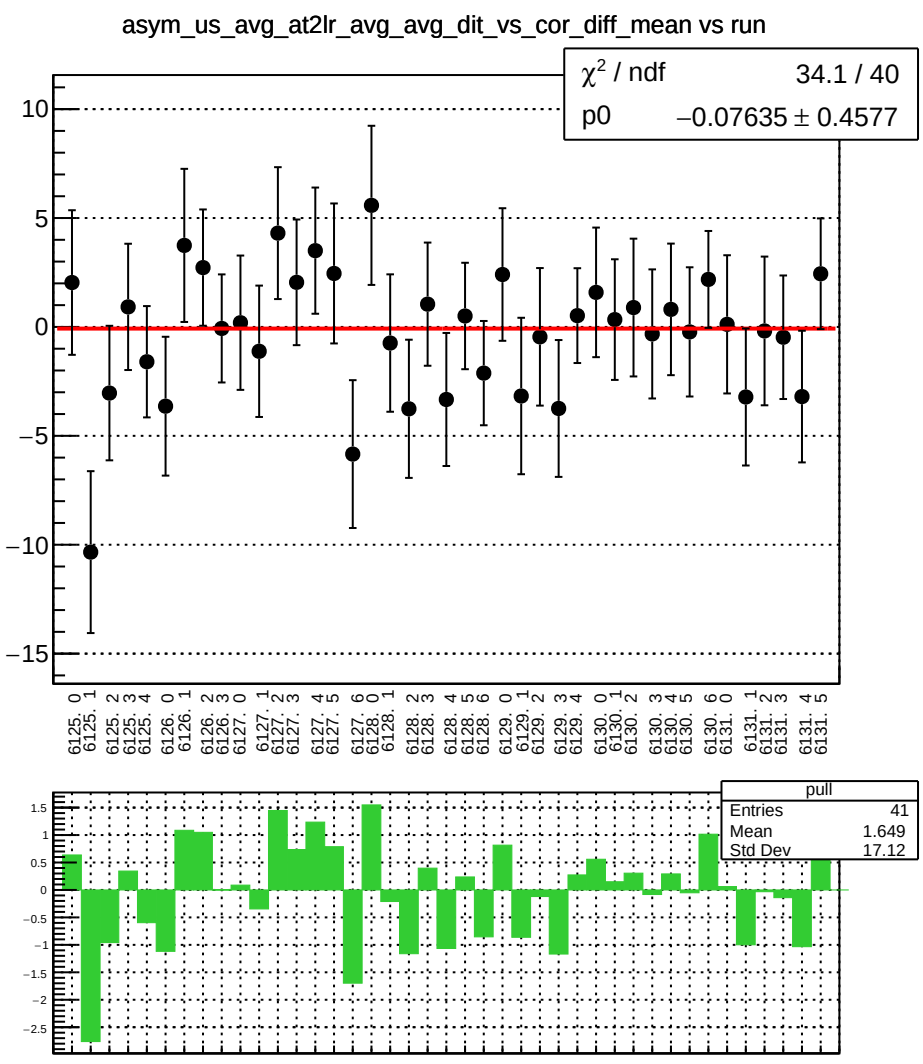

pull1D
Entries 41
Mean 0.004506
Std Dev 0.8899
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

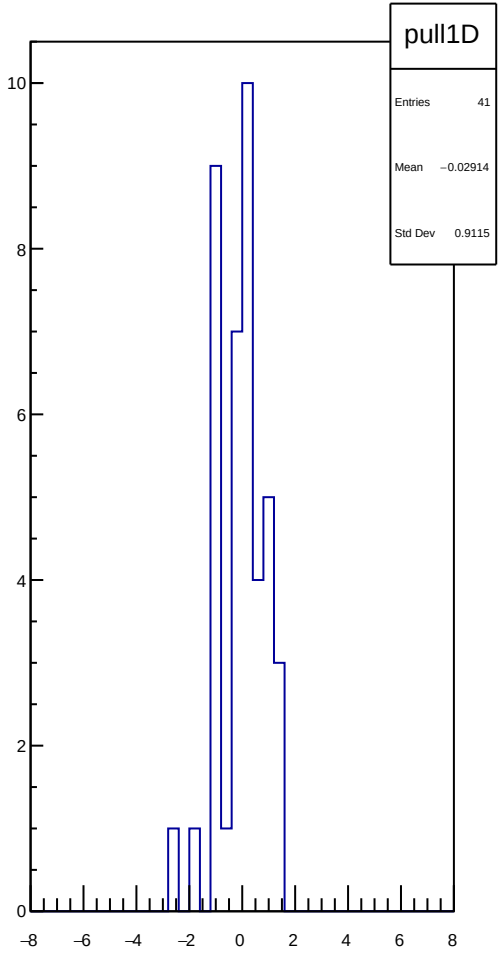

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1351 / 40
p0 7750 ± 8.649
8600
8400
8200
8000
7800
7600
7400
7200
7000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

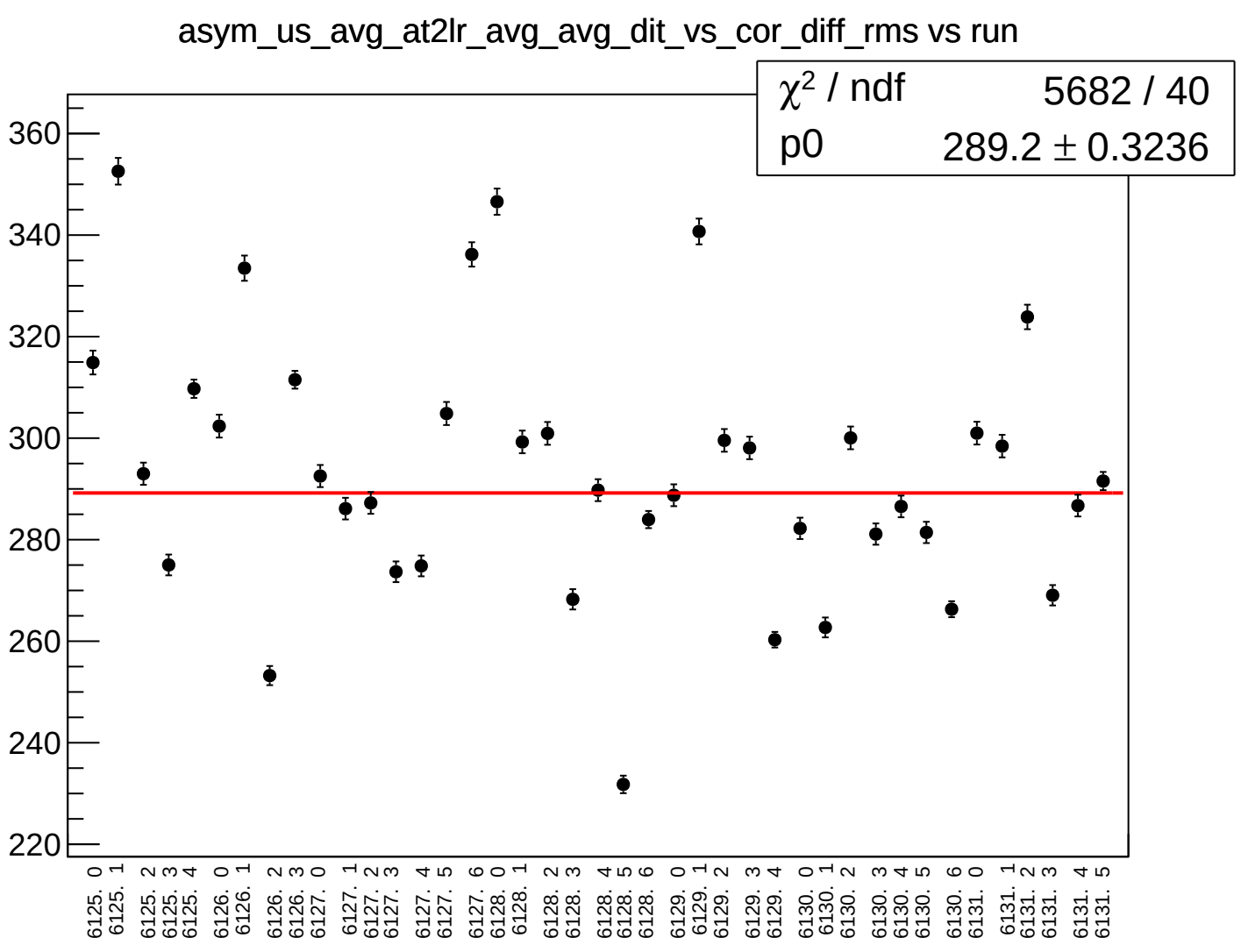

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 34.22 / 40
p0 2.516e−13 ± 7.577e−13
0.01
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −17.67
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

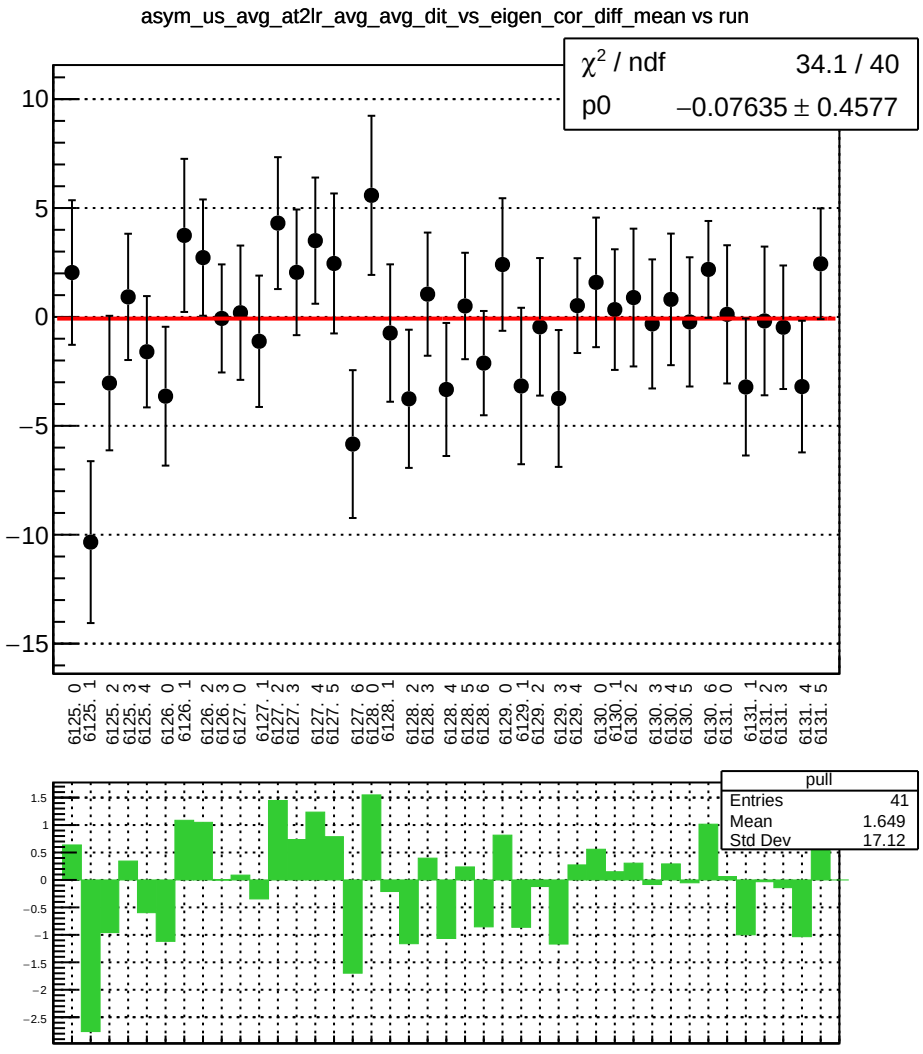

pull1D
Entries 41
Mean 0.09892
Std Dev 0.9082
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

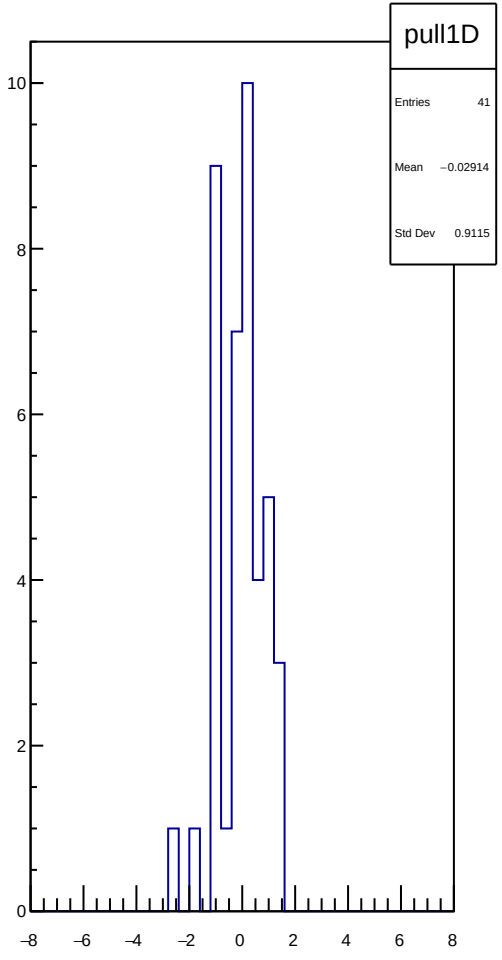

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.735e+05 / 40
p0 3.516e−10 ± 5.357e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

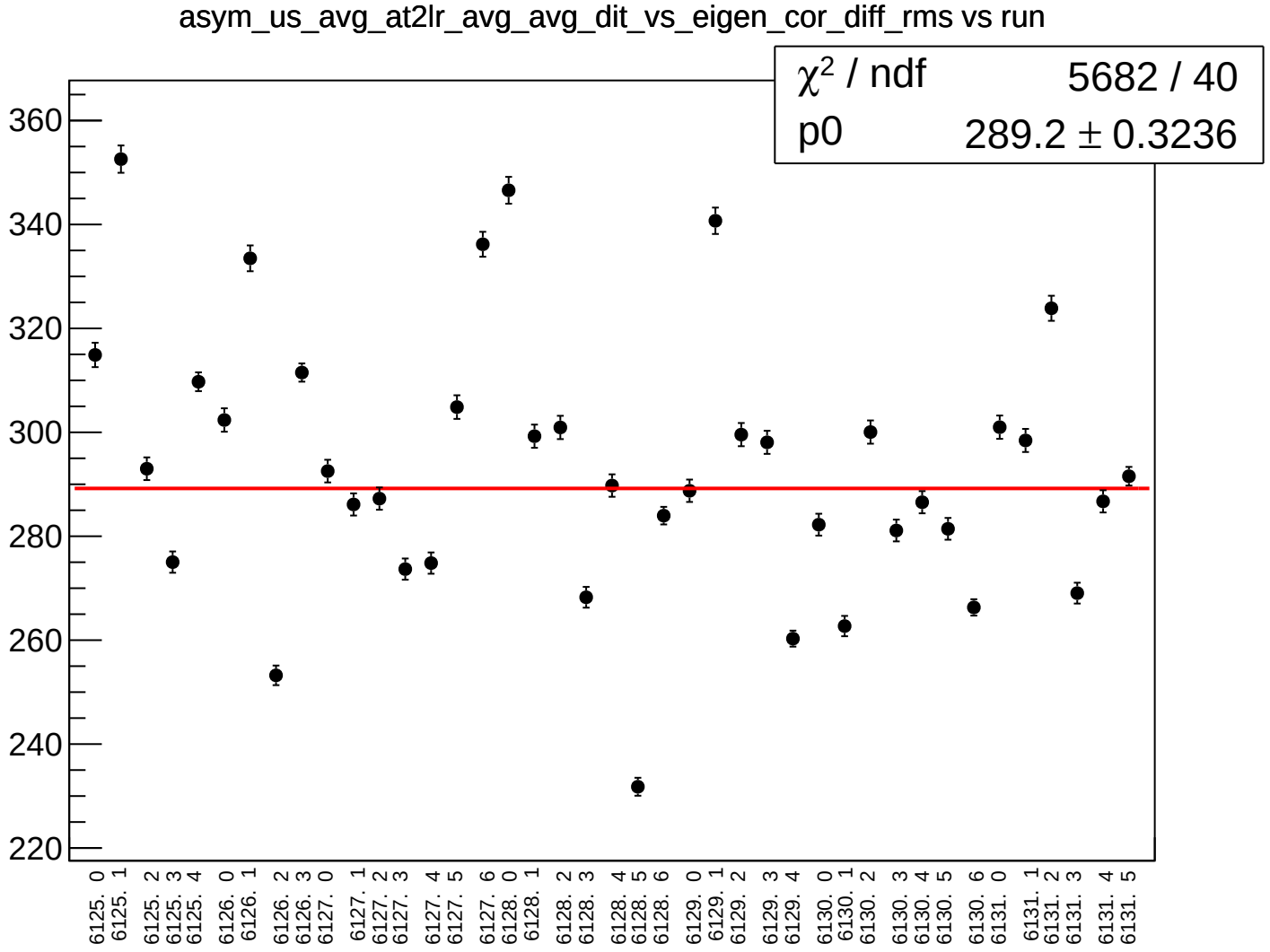

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 34.1 / 40
p0 −0.07635 ± 0.4577
pull
Entries 41
Mean 1.649
Std Dev 17.12

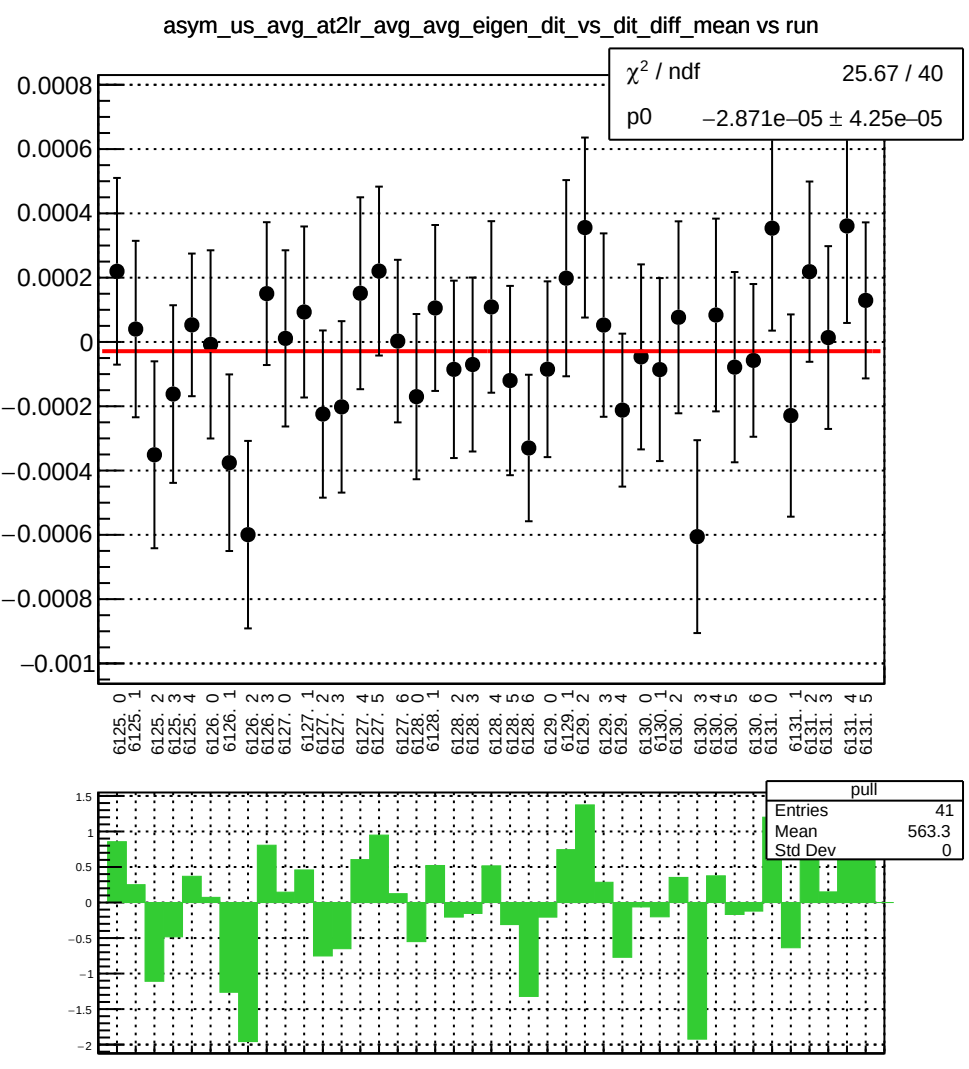

pull1D
Entries 41
Mean −0.02914
Std Dev 0.9115

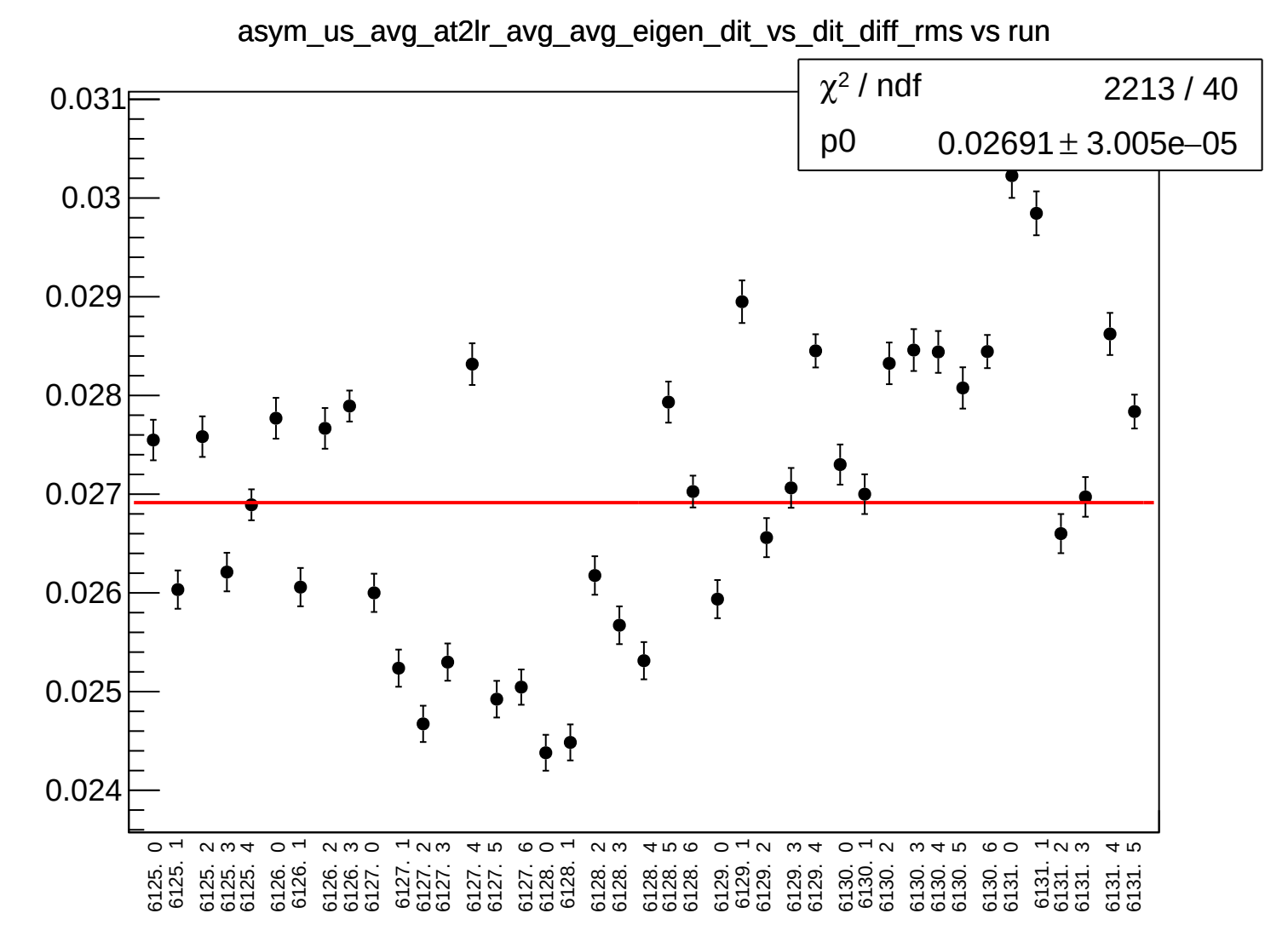

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5682 / 40
p0 289.2 ± 0.3236
360
340
320
300
280
260
240
220
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

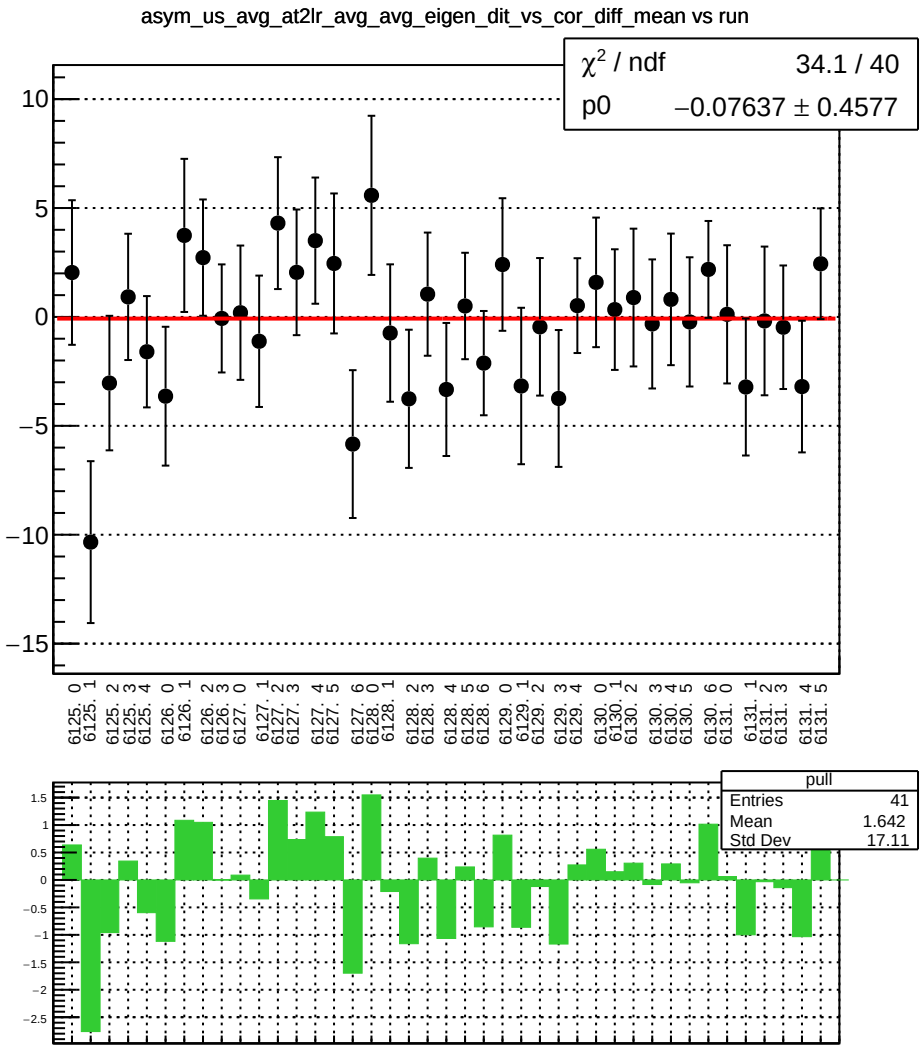

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.1 / 40
p0 −0.07635 ± 0.4577
pull
Entries 41
Mean 1.649
Std Dev 17.12

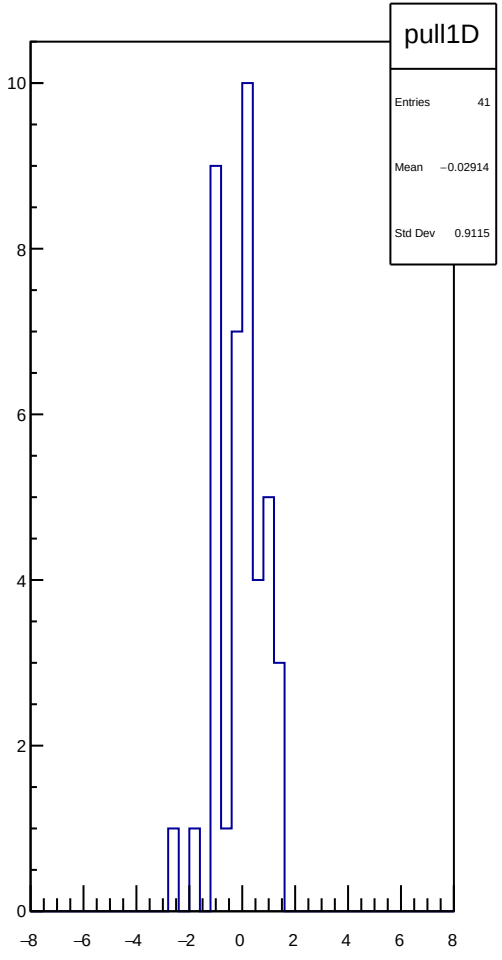

pull1D
Entries 41
Mean −0.02914
Std Dev 0.9115

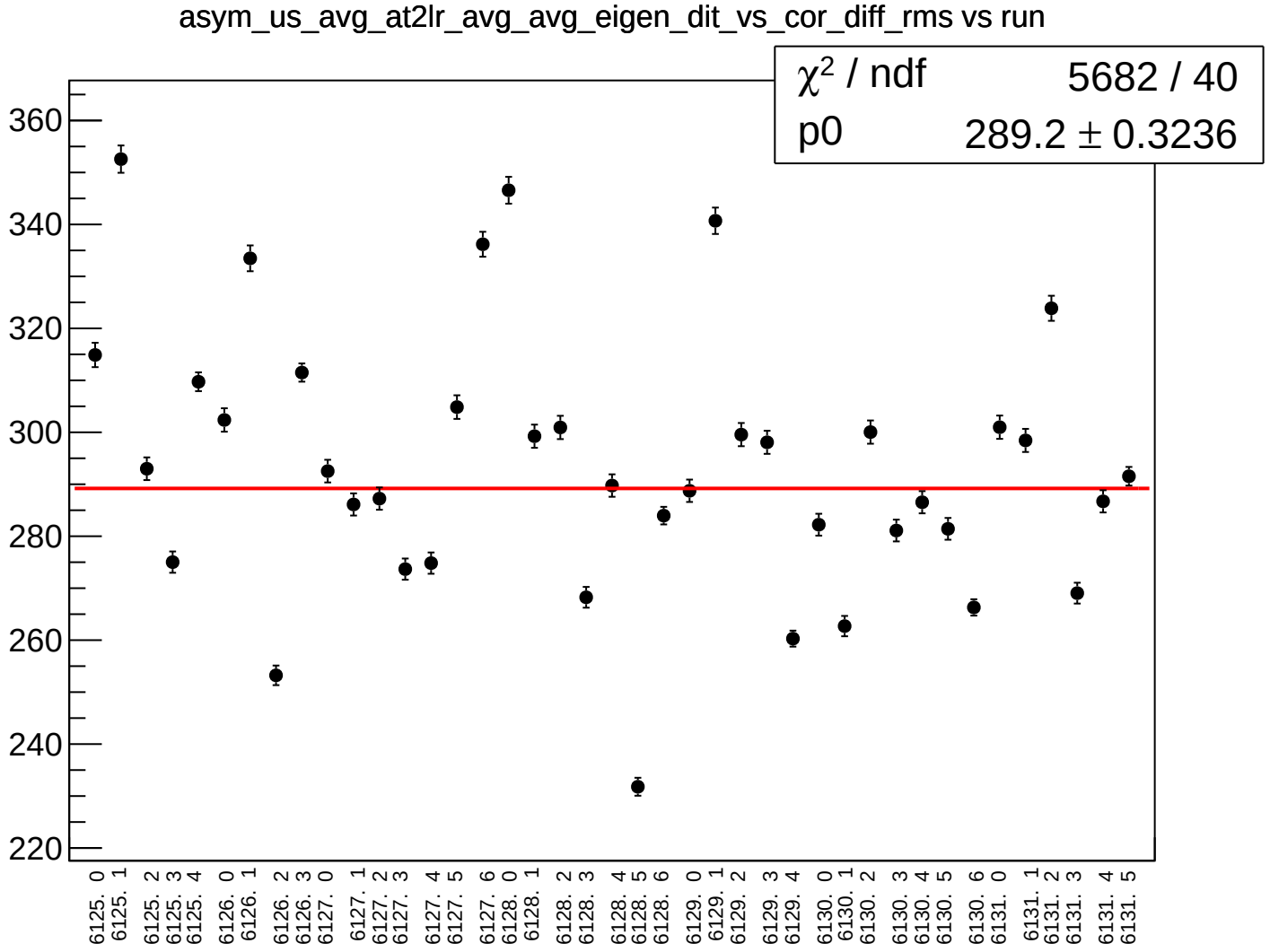

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5682 / 40
p0 289.2 ± 0.3236
360
340
320
300
280
260
240
220
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

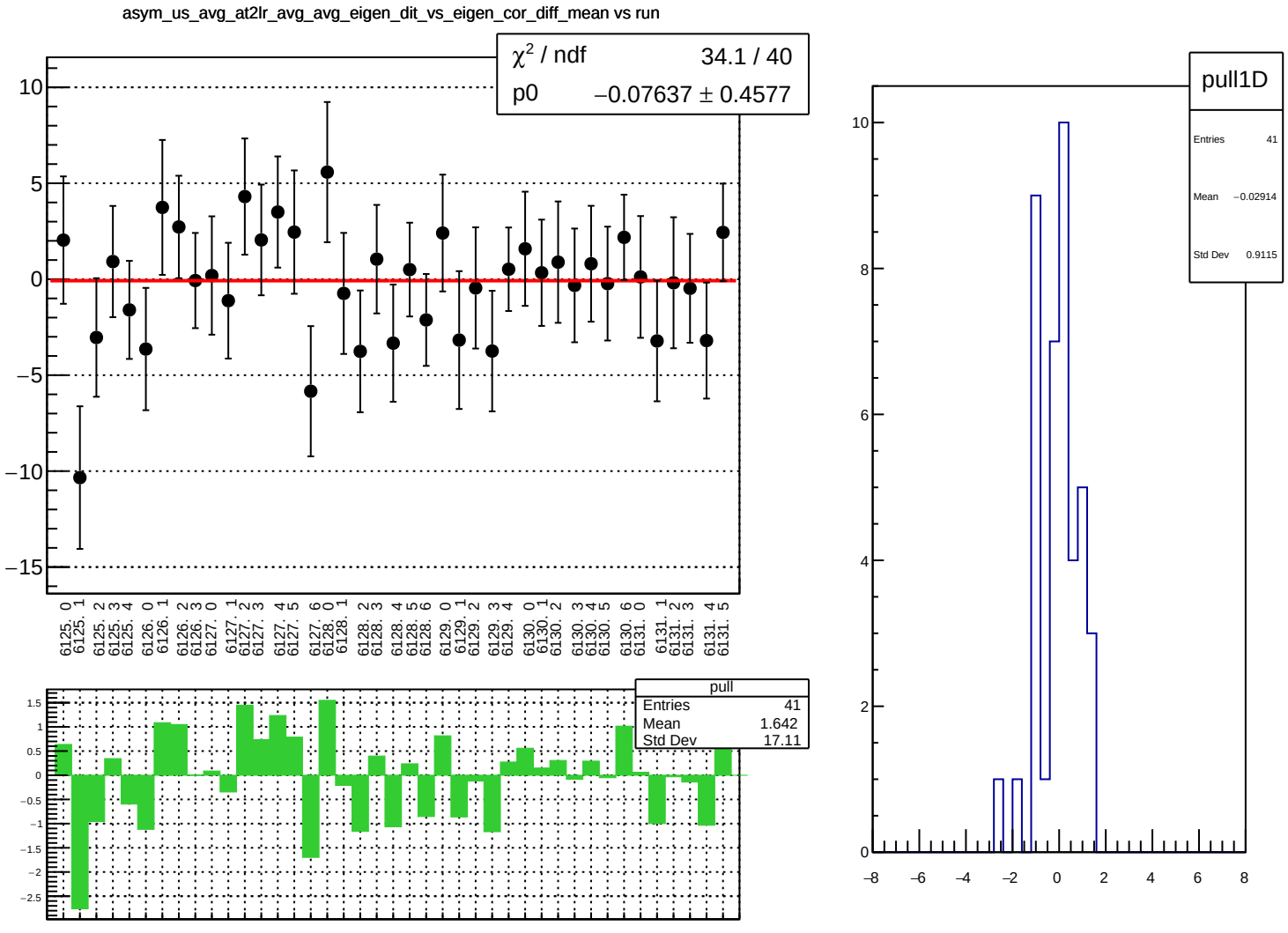

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 25.67 / 40
p0 −2.871e−05 ± 4.25e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 563.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.003395
Std Dev 0.7912
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

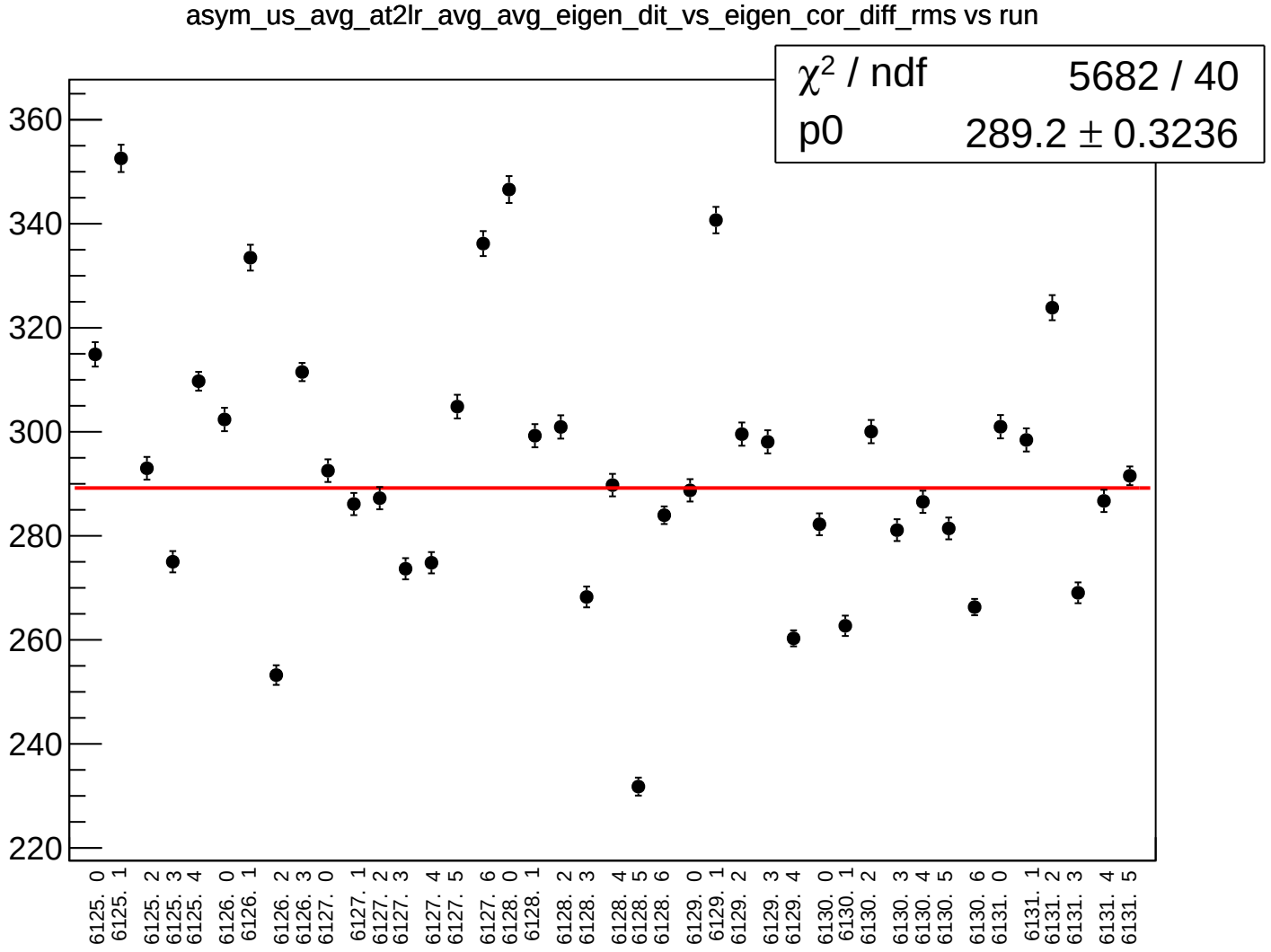

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2213 / 40
p0 0.02691 ± 3.005e–05
0.031
0.03
0.029
0.028
0.027
0.026
0.025
0.024
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

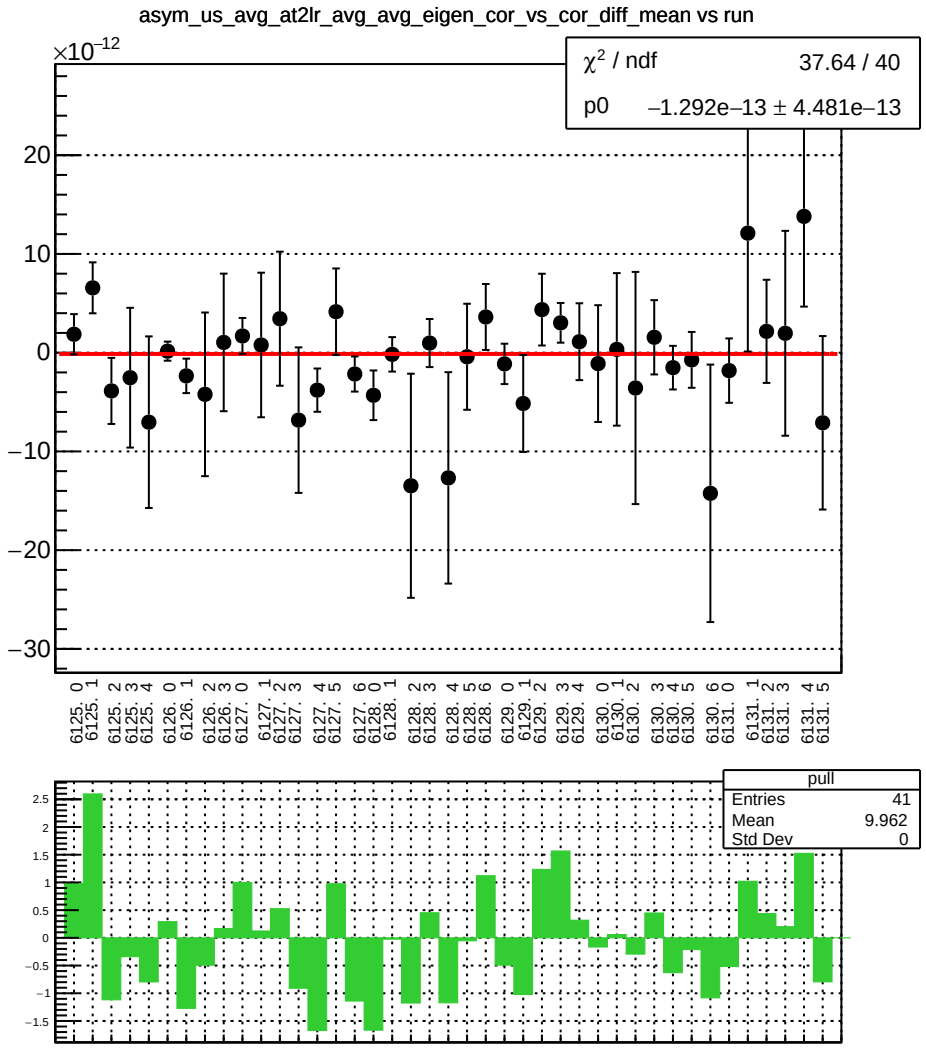

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 34.1 / 40
p0 −0.07637 ± 0.4577
pull
Entries 41
Mean 1.642
Std Dev 17.11

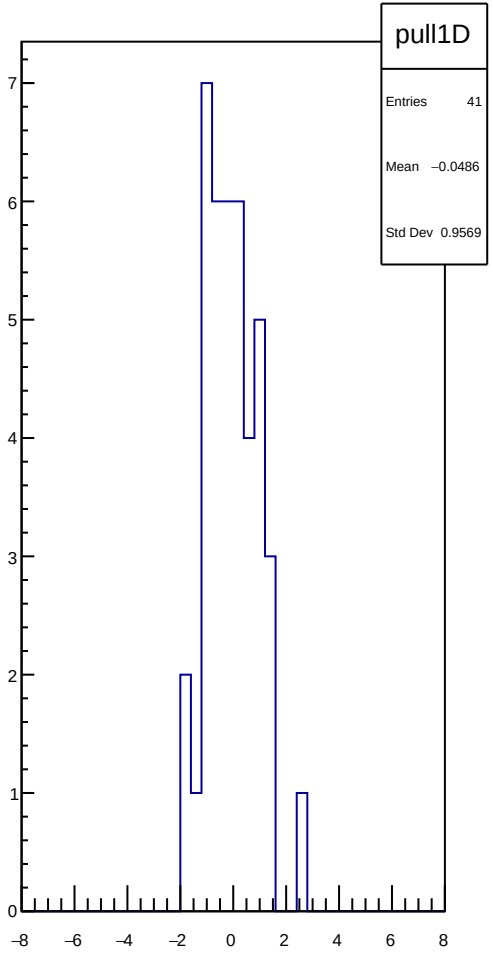

pull1D
Entries 41
Mean −0.02914
Std Dev 0.9115

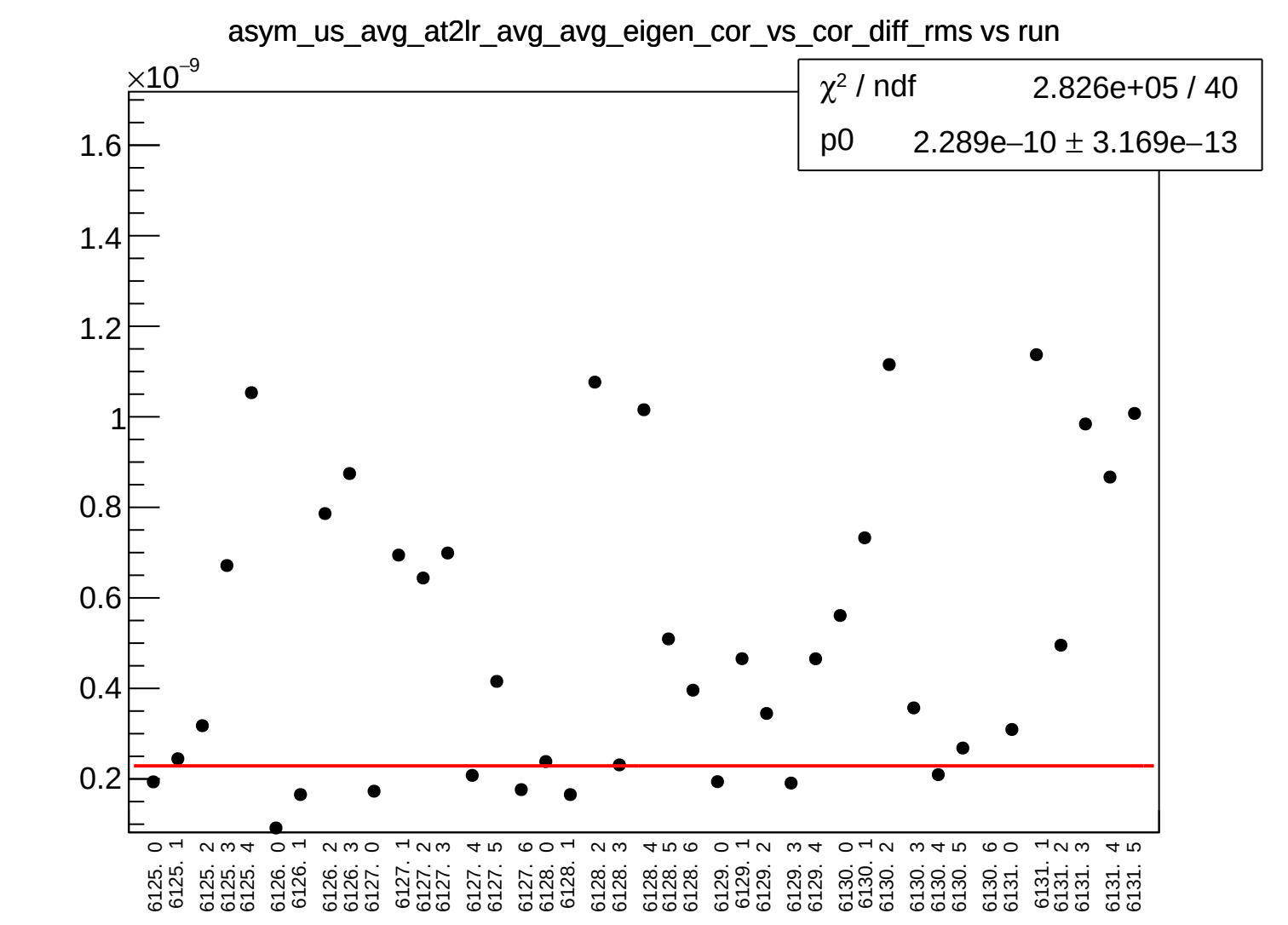

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5682 / 40
p0 289.2 ± 0.3236
360
340
320
300
280
260
240
220
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

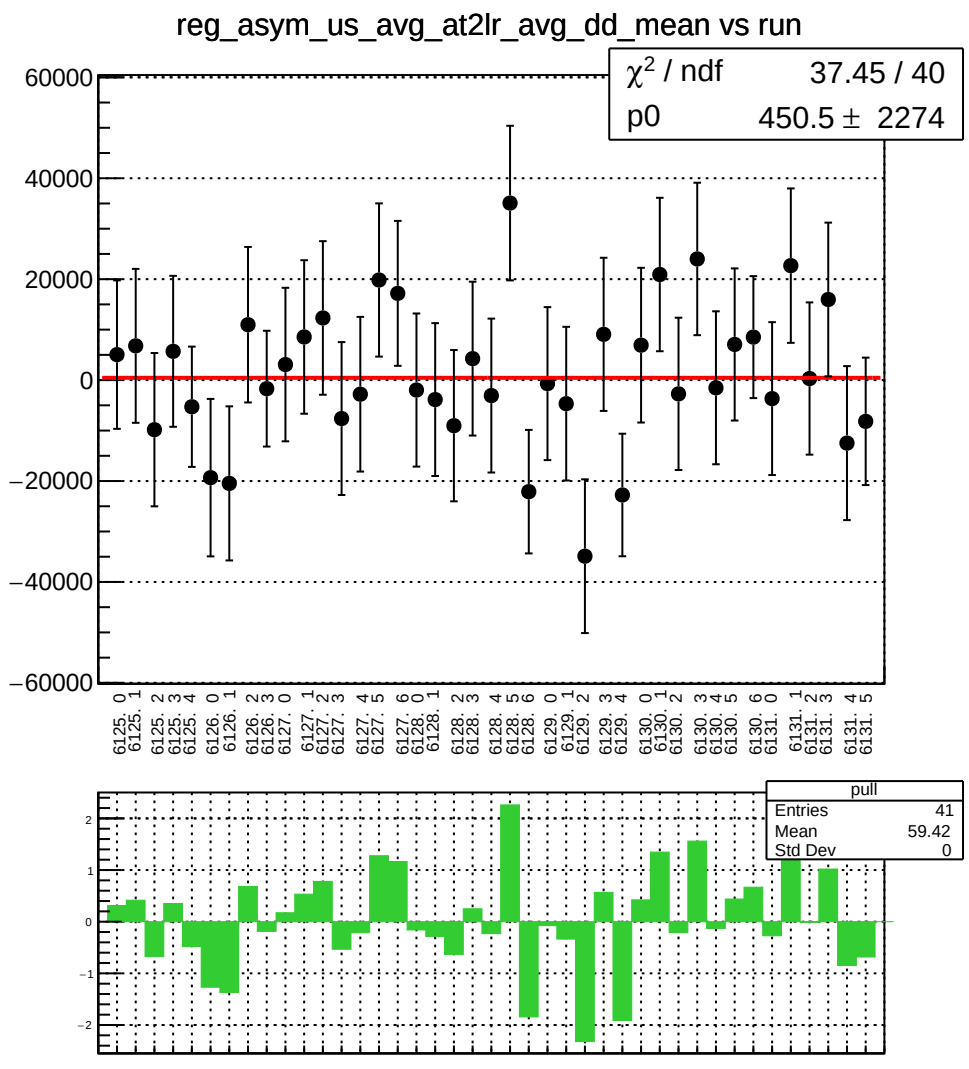

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.1 / 40
p0 −0.07637 ± 0.4577
10
5
0
−5
−10
−15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1.642
Std Dev 17.11
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean −0.02914
Std Dev 0.9115
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

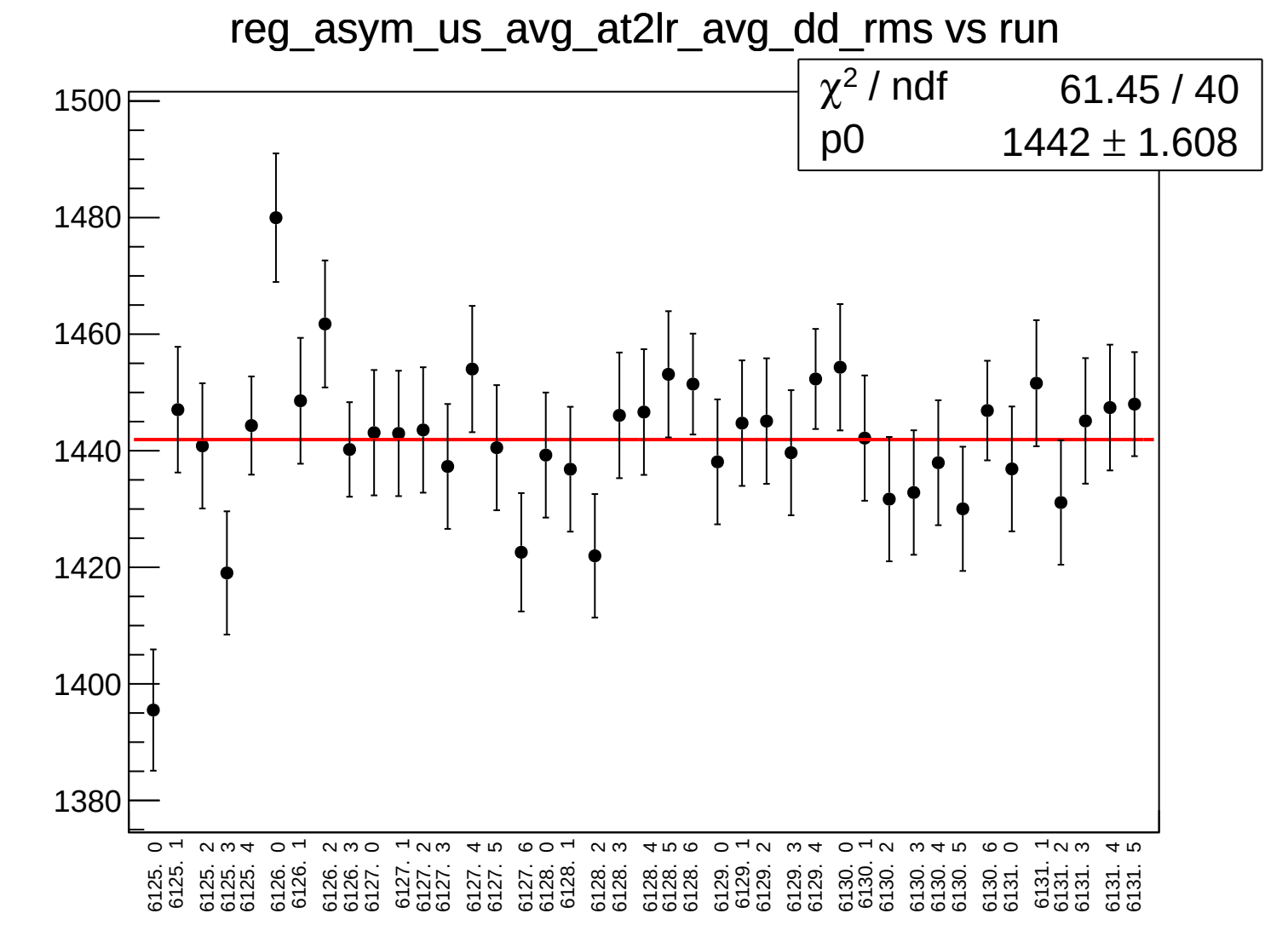

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5682 / 40
p0 289.2 ± 0.3236
360
340
320
300
280
260
240
220
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

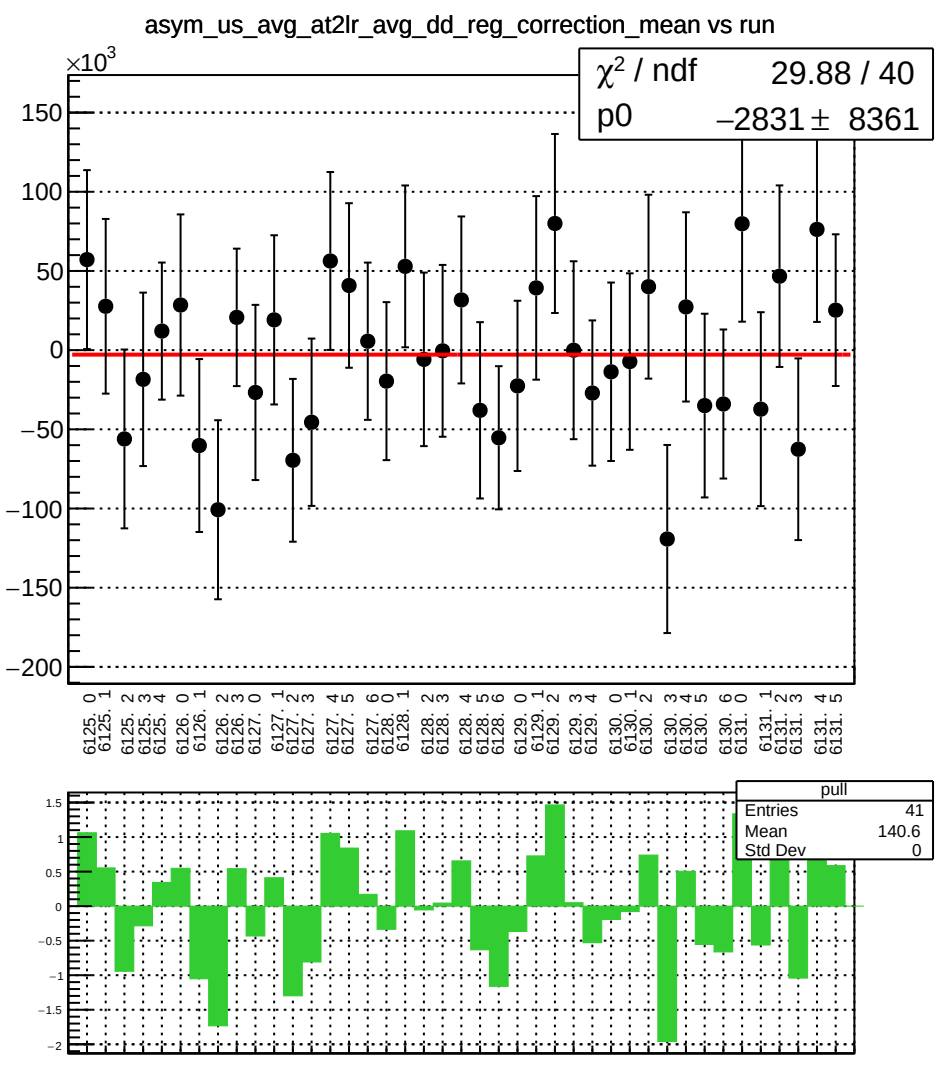

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 37.64 / 40
p0 −1.292e−13 ± 4.481e−13
20
10
0
−10
−20
−30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 9.962
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

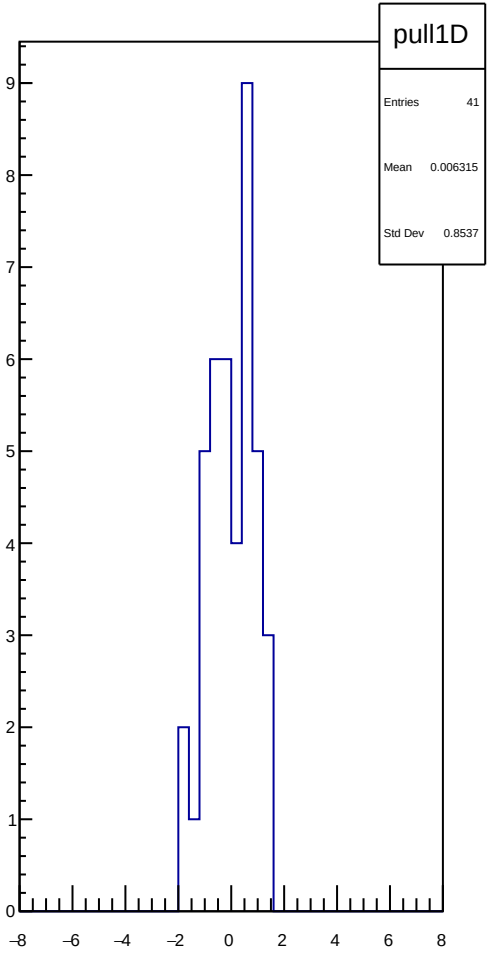

pull1D
Entries 41
Mean −0.0486
Std Dev 0.9569
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.826e+05 / 40
p0 2.289e−10 ± 3.169e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 37.45 / 40
p0 450.5 ± 2274
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 59.42
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.02437
Std Dev 0.9554
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 61.45 / 40
p0 1442 ± 1.608
1500
1480
1460
1440
1420
1400
1380
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 29.88 / 40
p0 −2831 ± 8361
150
100
50
0
−50
−100
−150
−200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 140.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.006315
Std Dev 0.8537
9
8
7
6
5
4
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1
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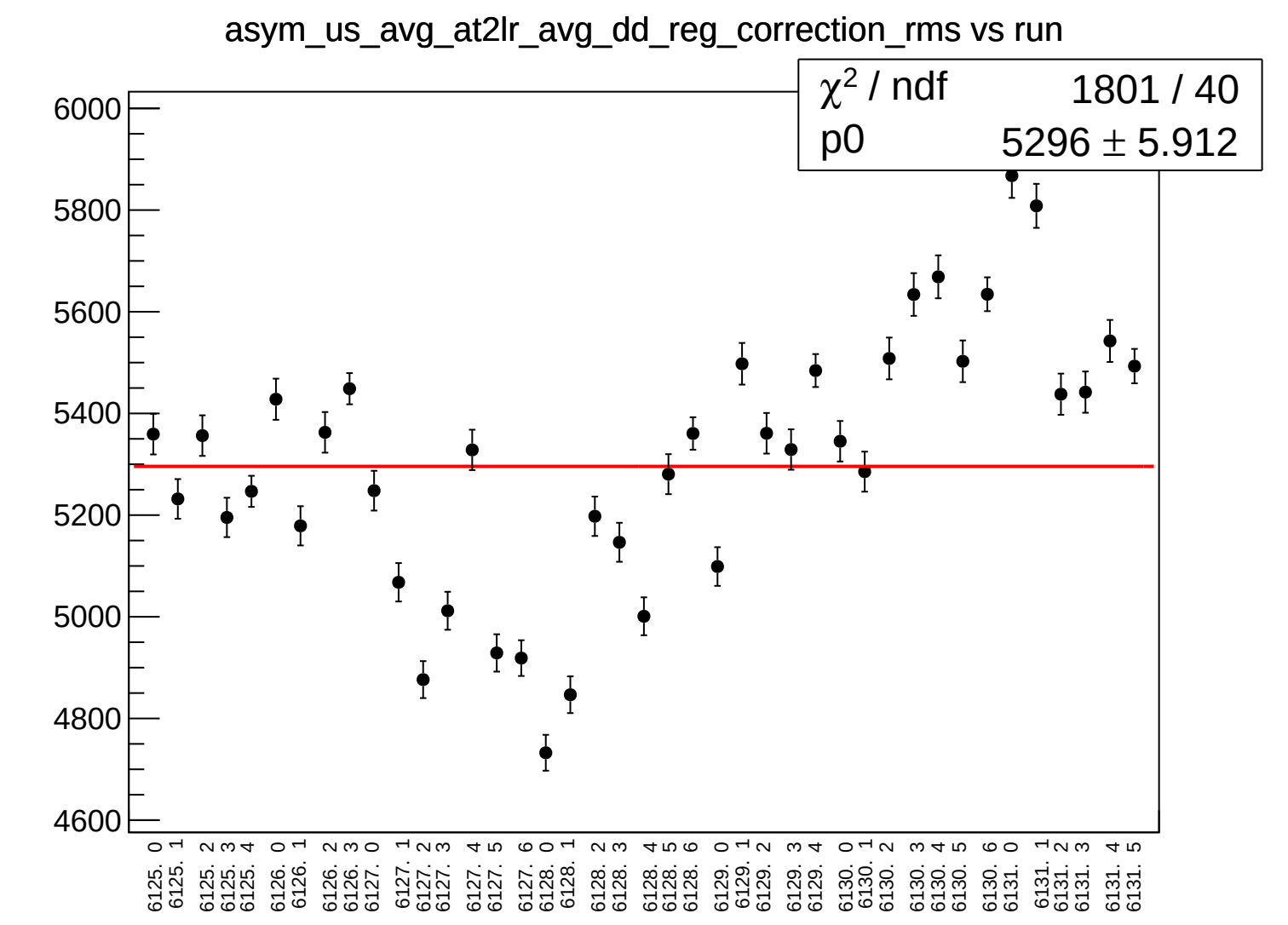
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1801 / 40
p0 5296 ± 5.912
6000
5800
5600
5400
5200
5000
4800
4600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
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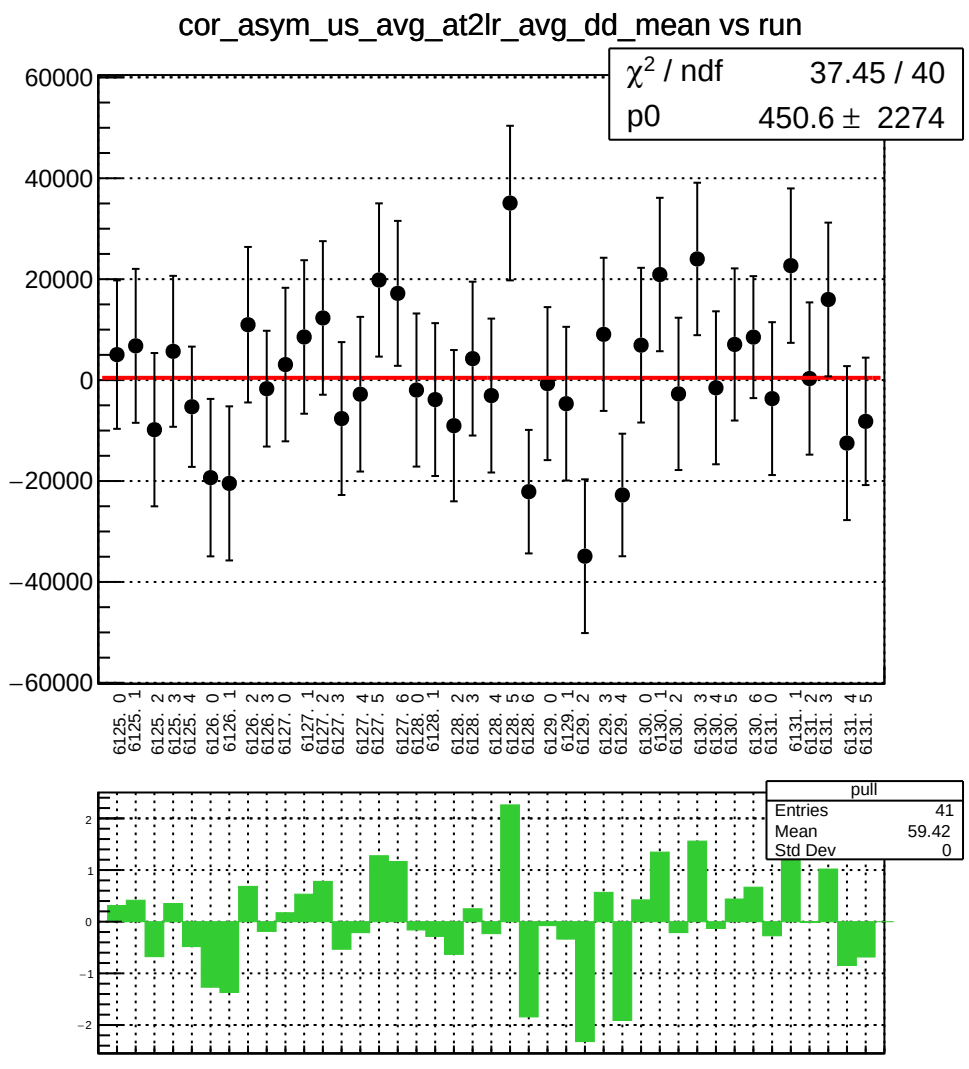
6131. 4
6131. 5


cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 37.45 / 40
p0 450.6 ± 2274
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
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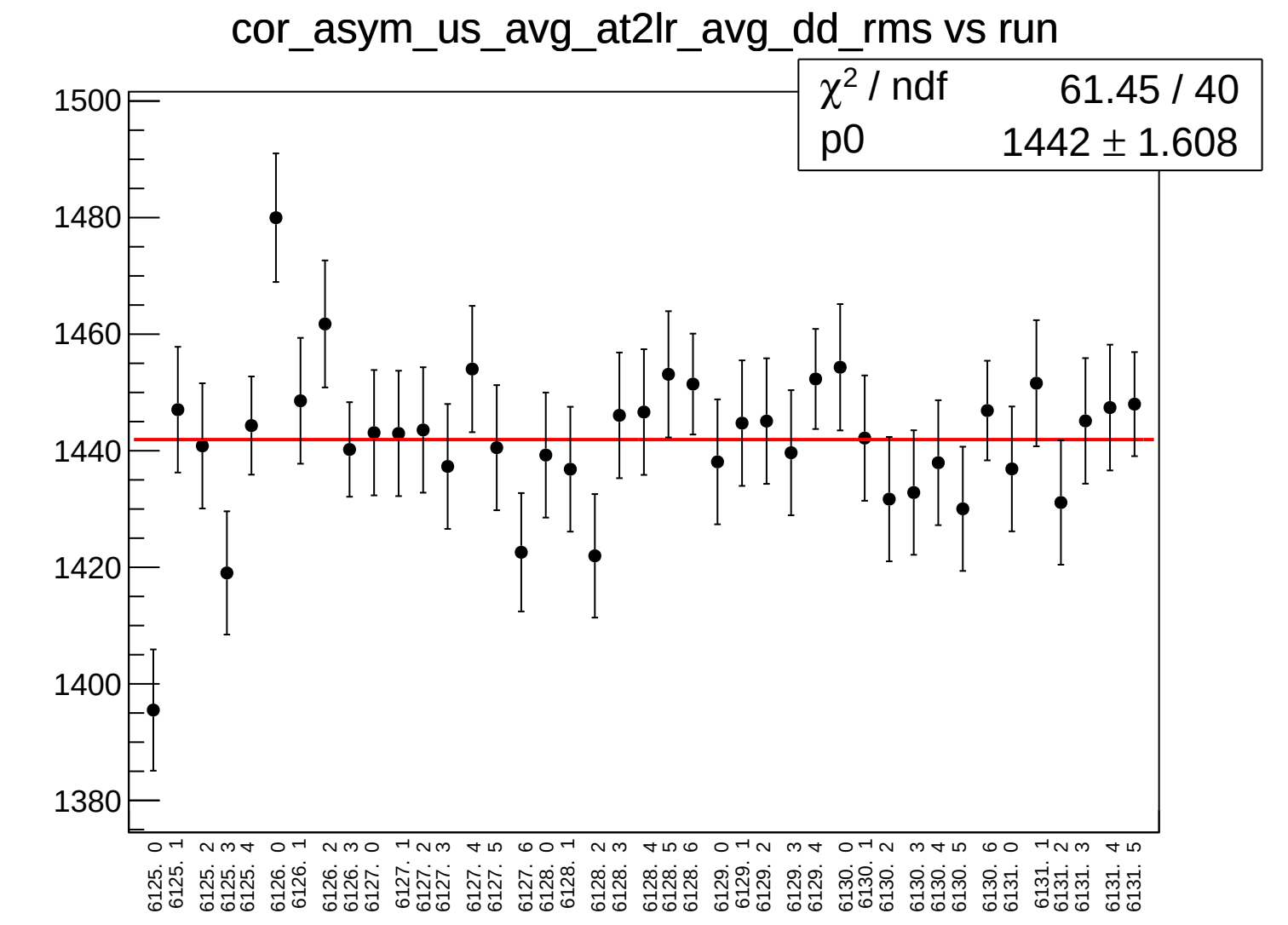
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 59.42
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.02437
Std Dev 0.9554
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 61.45 / 40
p0 1442 ± 1.608
1500
1480
1460
1440
1420
1400
1380
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6130. 5
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6131. 0
6131. 1
6131. 2
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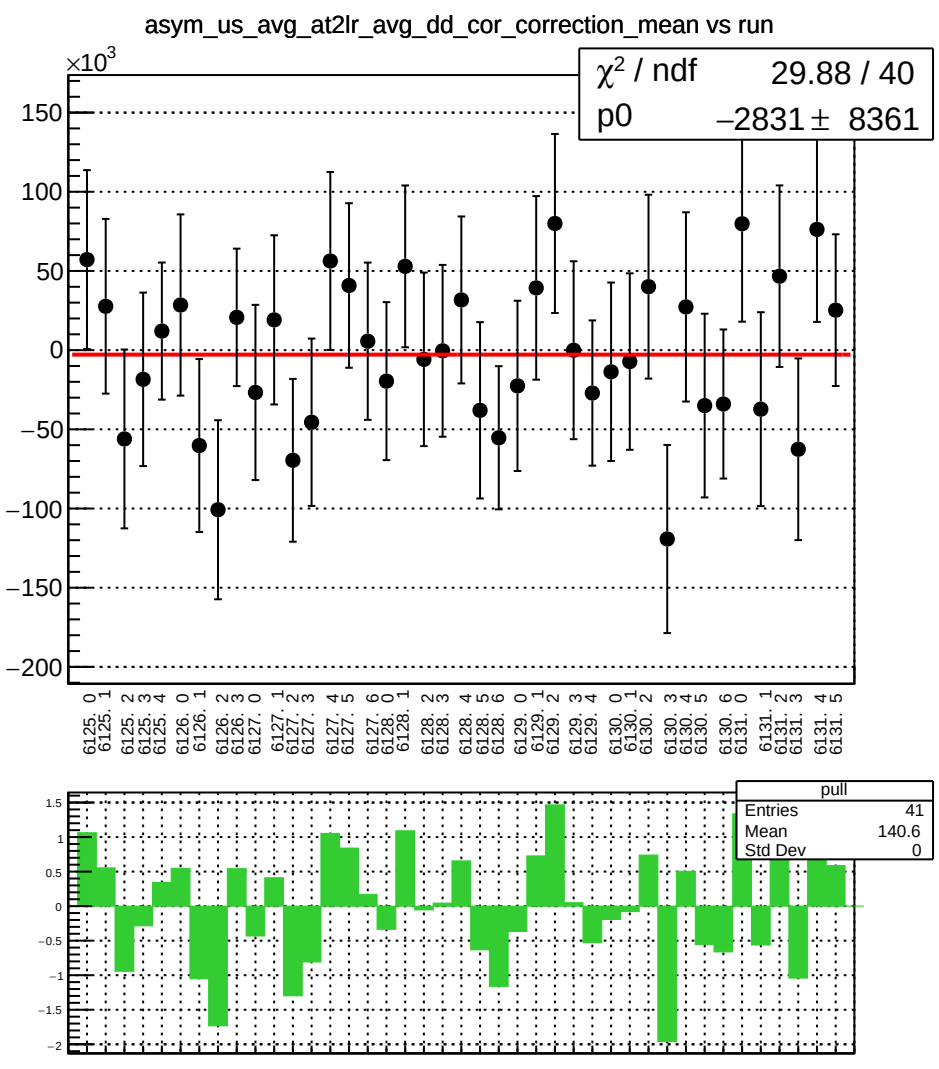
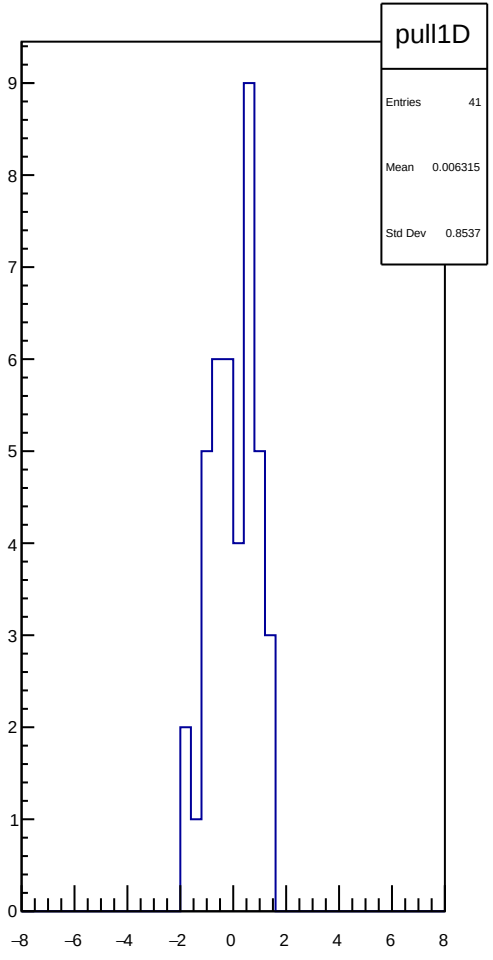
6131. 5


asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 29.88 / 40
p0 −2831 ± 8361
150
100
50
0
−50
−100
−150
−200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 140.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.006315
Std Dev 0.8537
9
8
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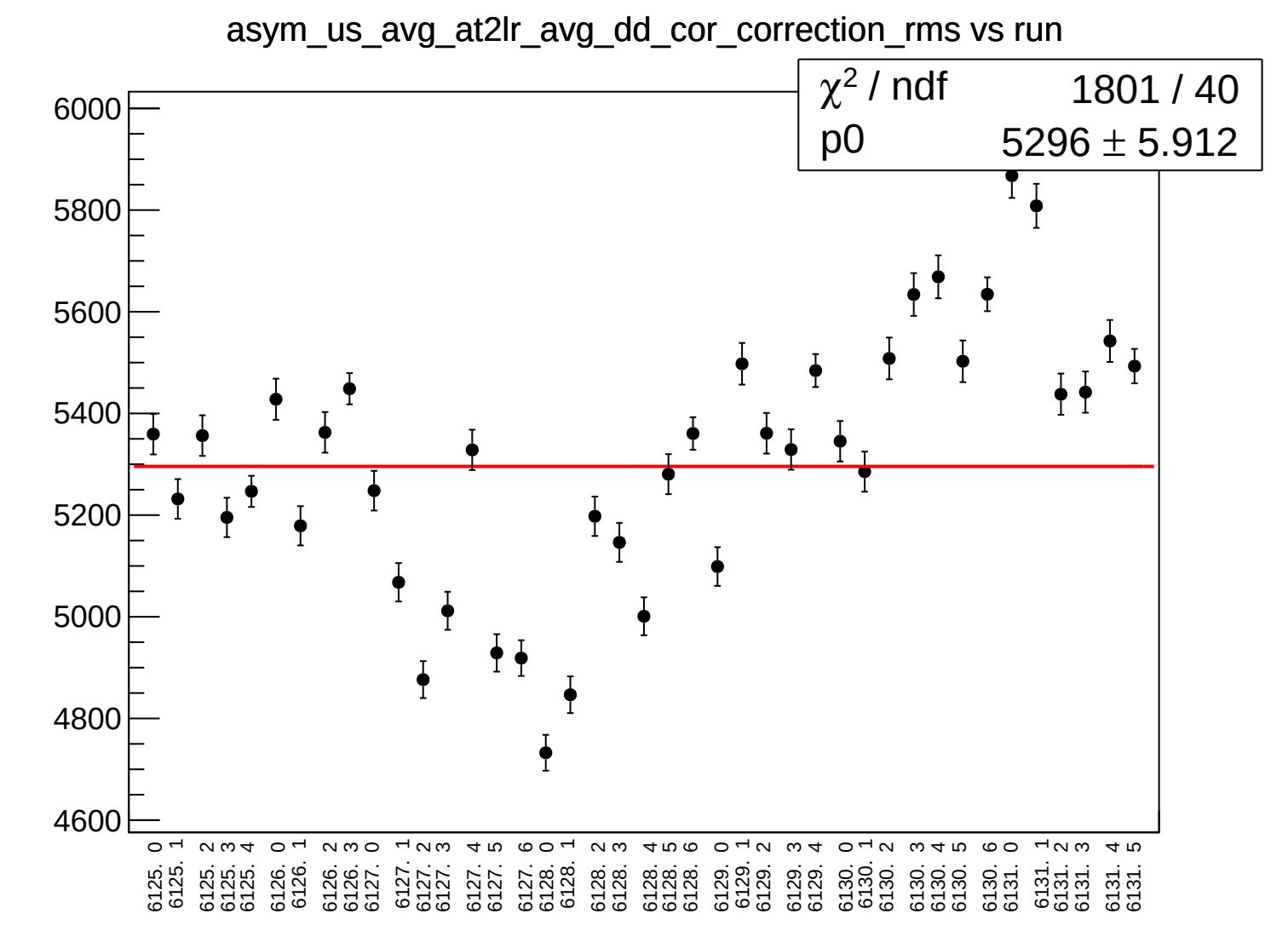
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1801 / 40
p0 5296 ± 5.912
6000
5800
5600
5400
5200
5000
4800
4600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
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6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
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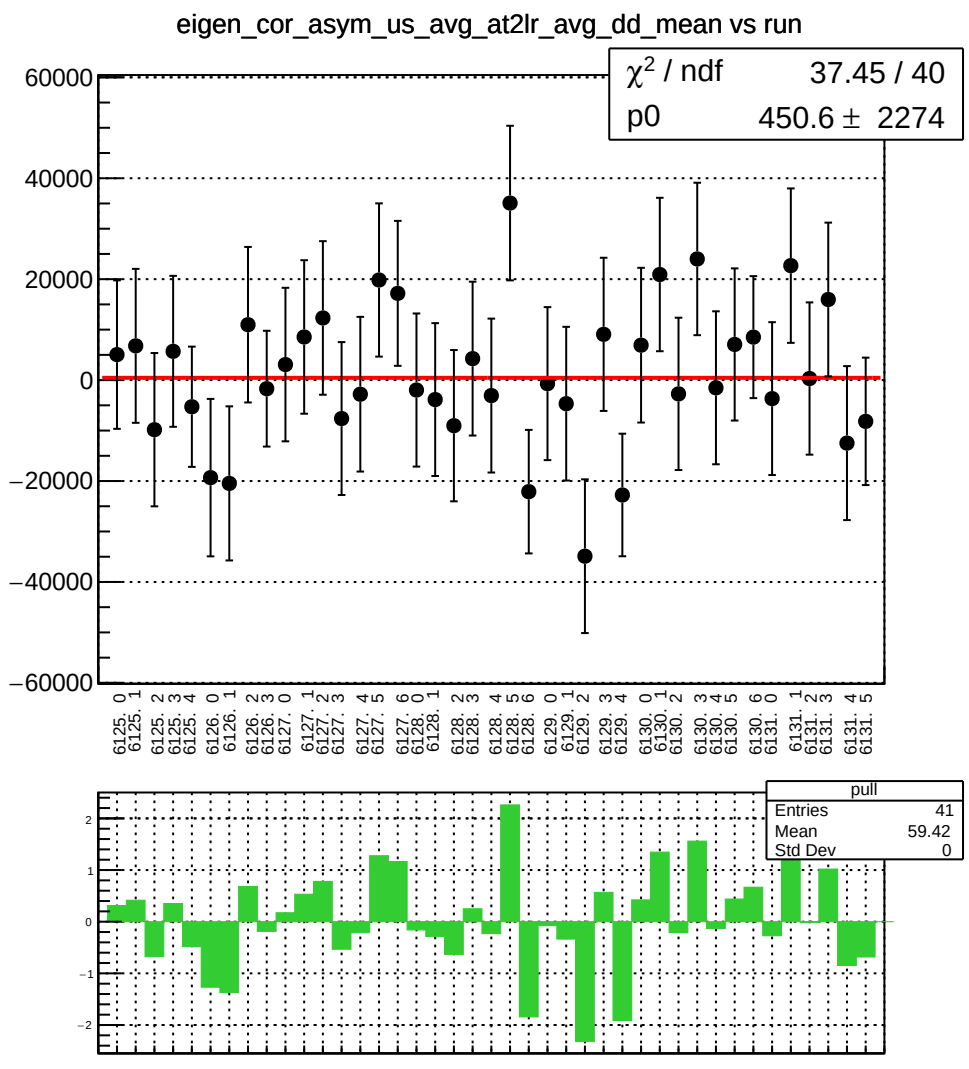
6131. 4
6131. 5


eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 37.45 / 40
p0 450.6 ± 2274
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
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6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 59.42
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.02437
Std Dev 0.9554
10
8
6
4
2
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−4
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2
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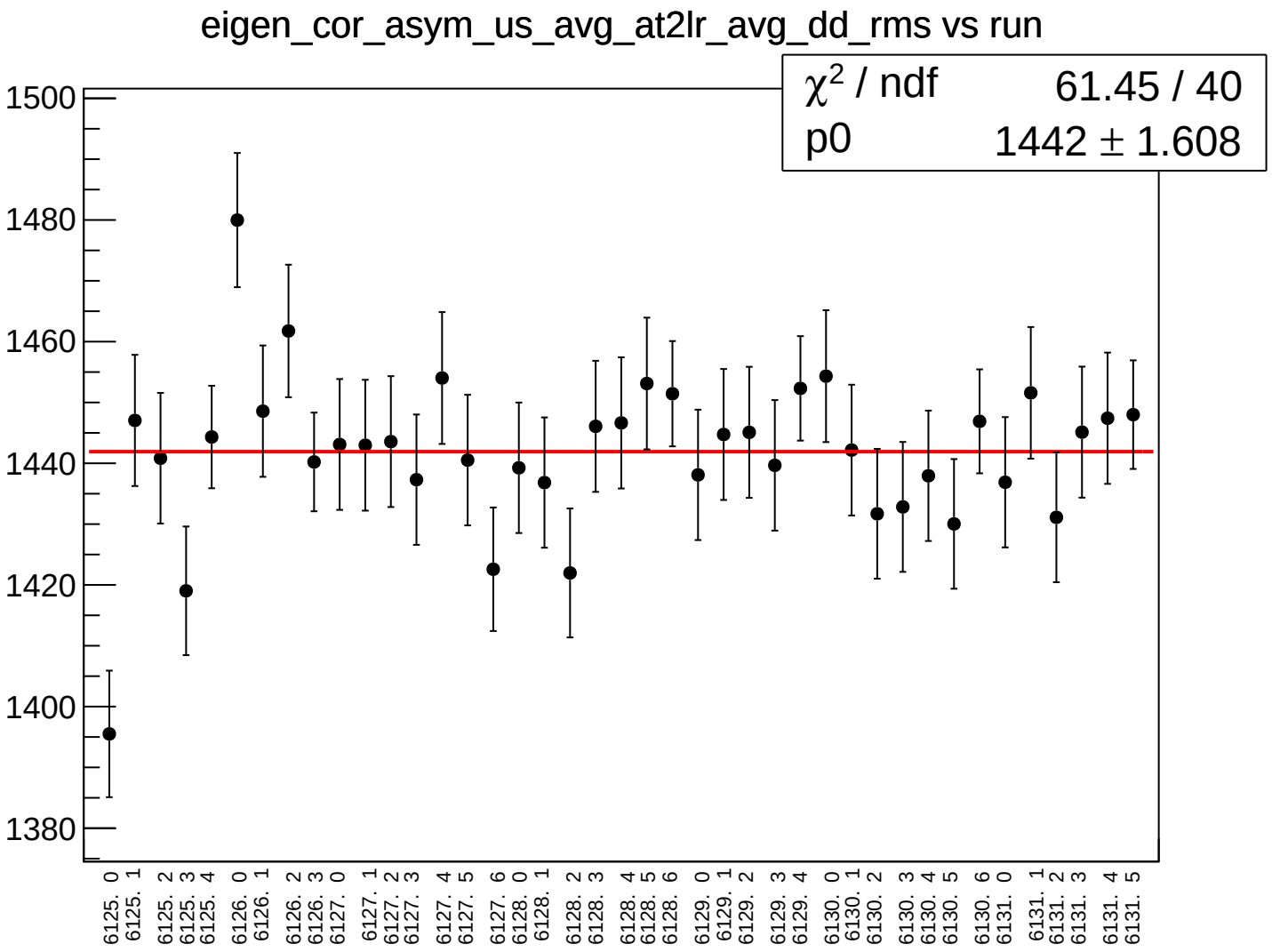
eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 61.45 / 40
p0 1442 ± 1.608
1500
1480
1460
1440
1420
1400
1380
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
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6128. 0
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6128. 2
6128. 3
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6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
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6130. 2
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6130. 5
6130. 6
6131. 0
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6131. 2
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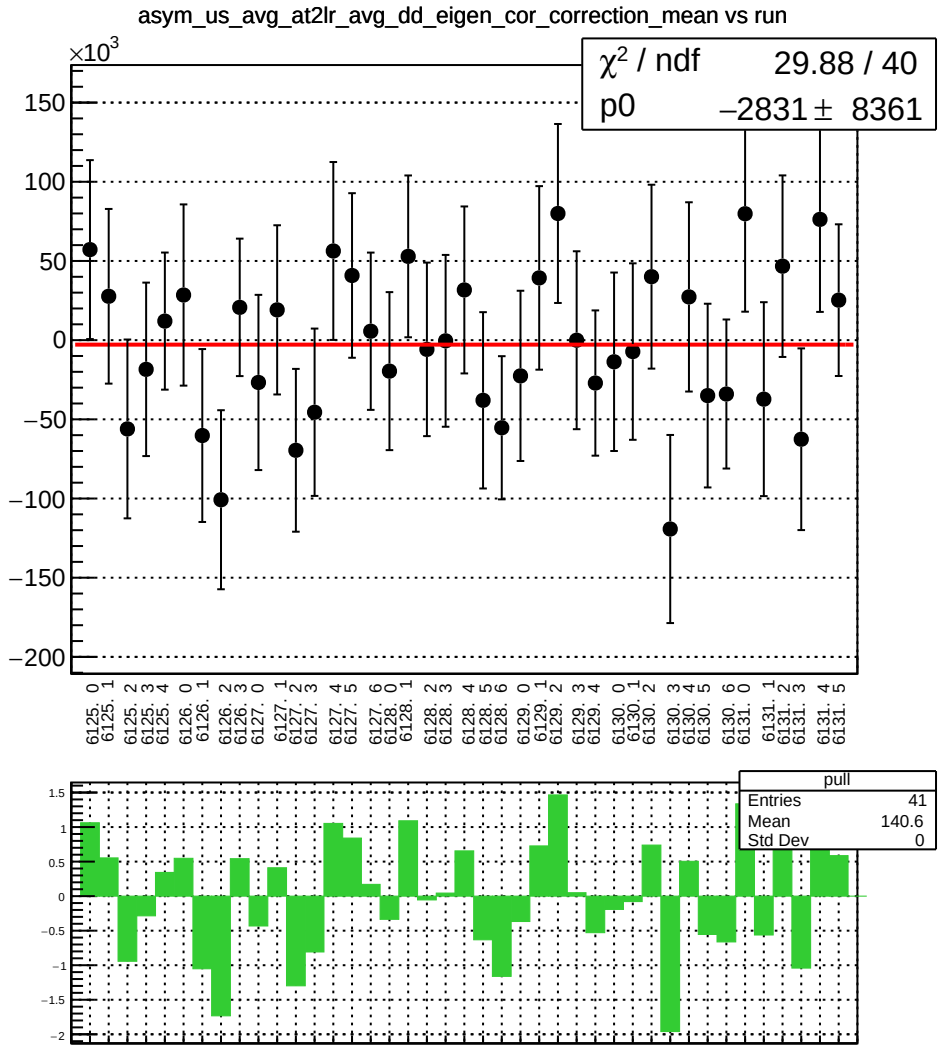
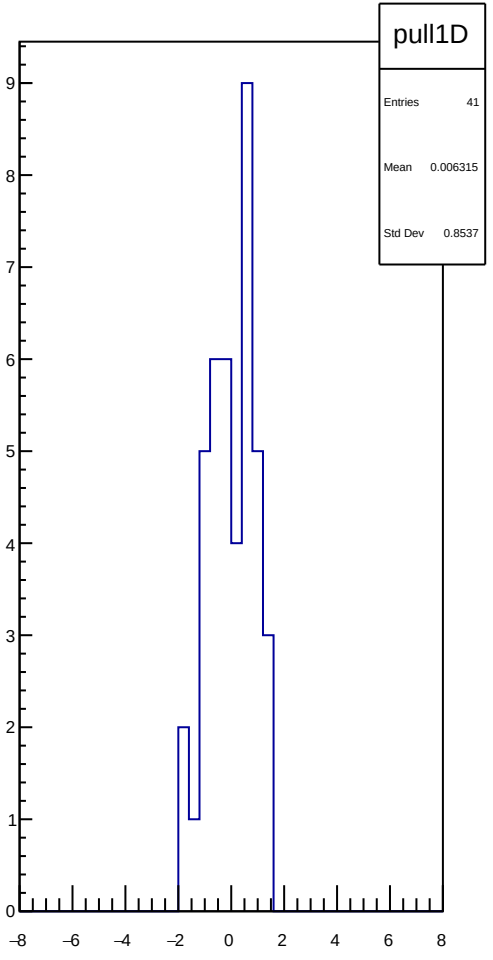
6131. 4
6131. 5


asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 29.88 / 40
p0 −2831 ± 8361
150
100
50
0
−50
−100
−150
−200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 140.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.006315
Std Dev 0.8537
9
8
7
6
5
4
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2
1
0
−8
−6
−4
−2
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2
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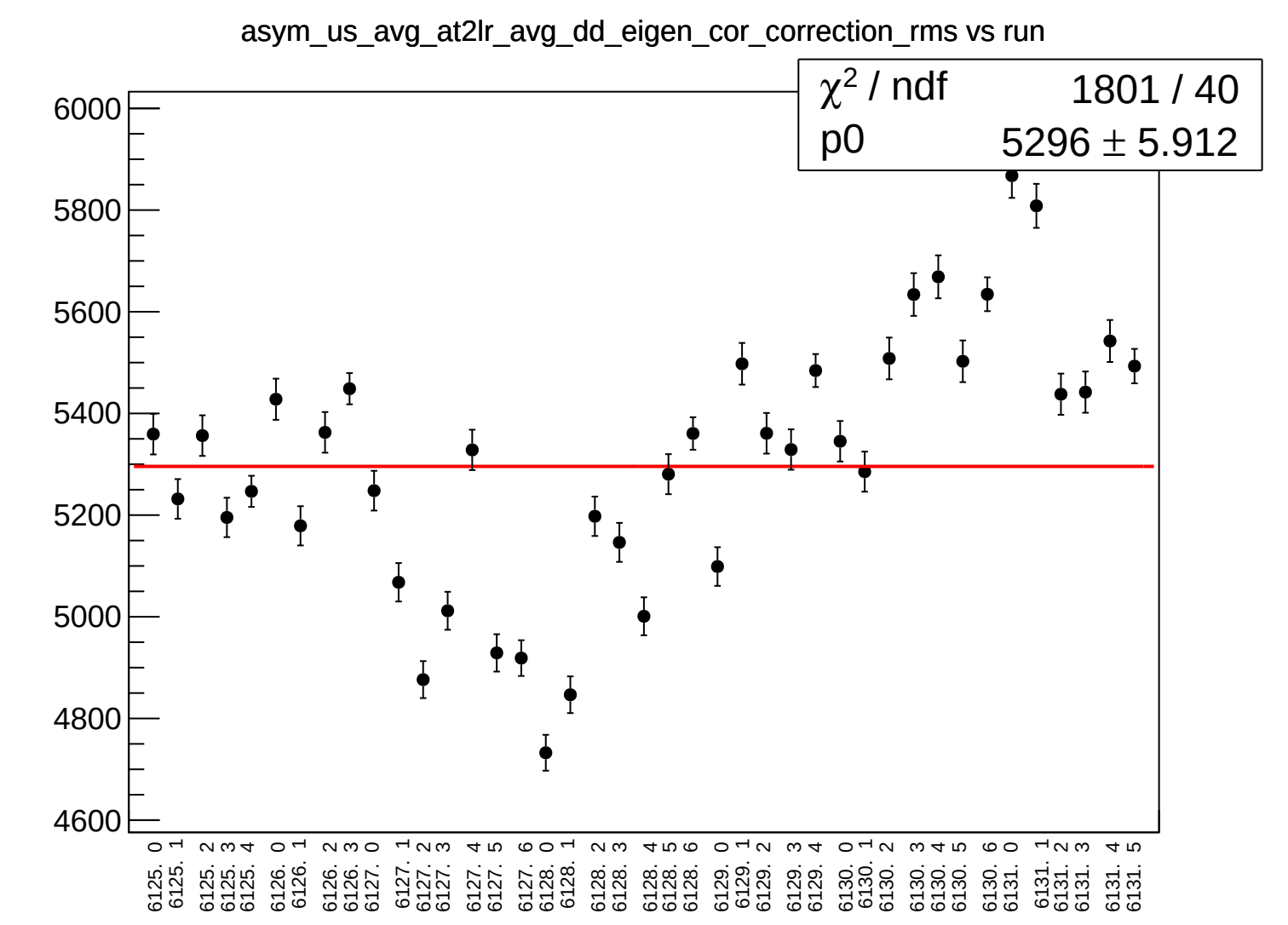
asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1801 / 40
p0 5296 ± 5.912
6000
5800
5600
5400
5200
5000
4800
4600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
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6128. 2
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6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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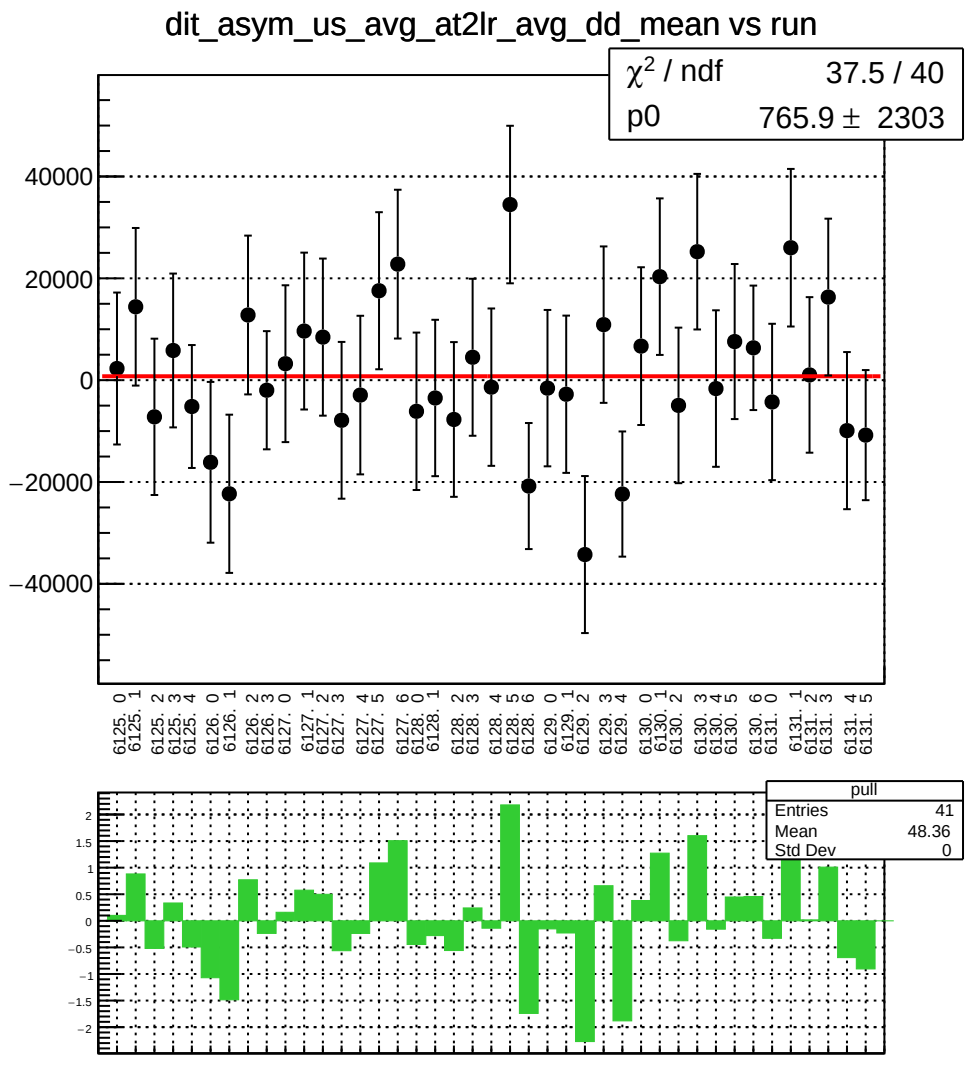
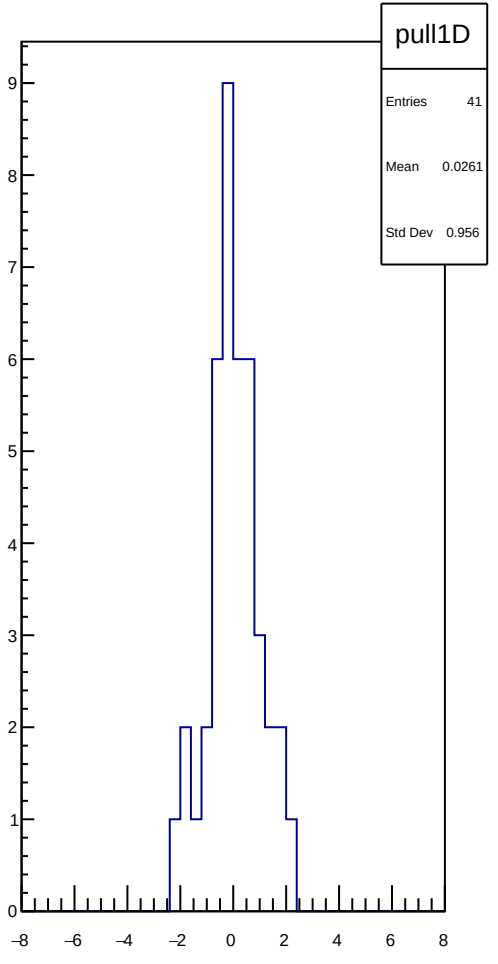
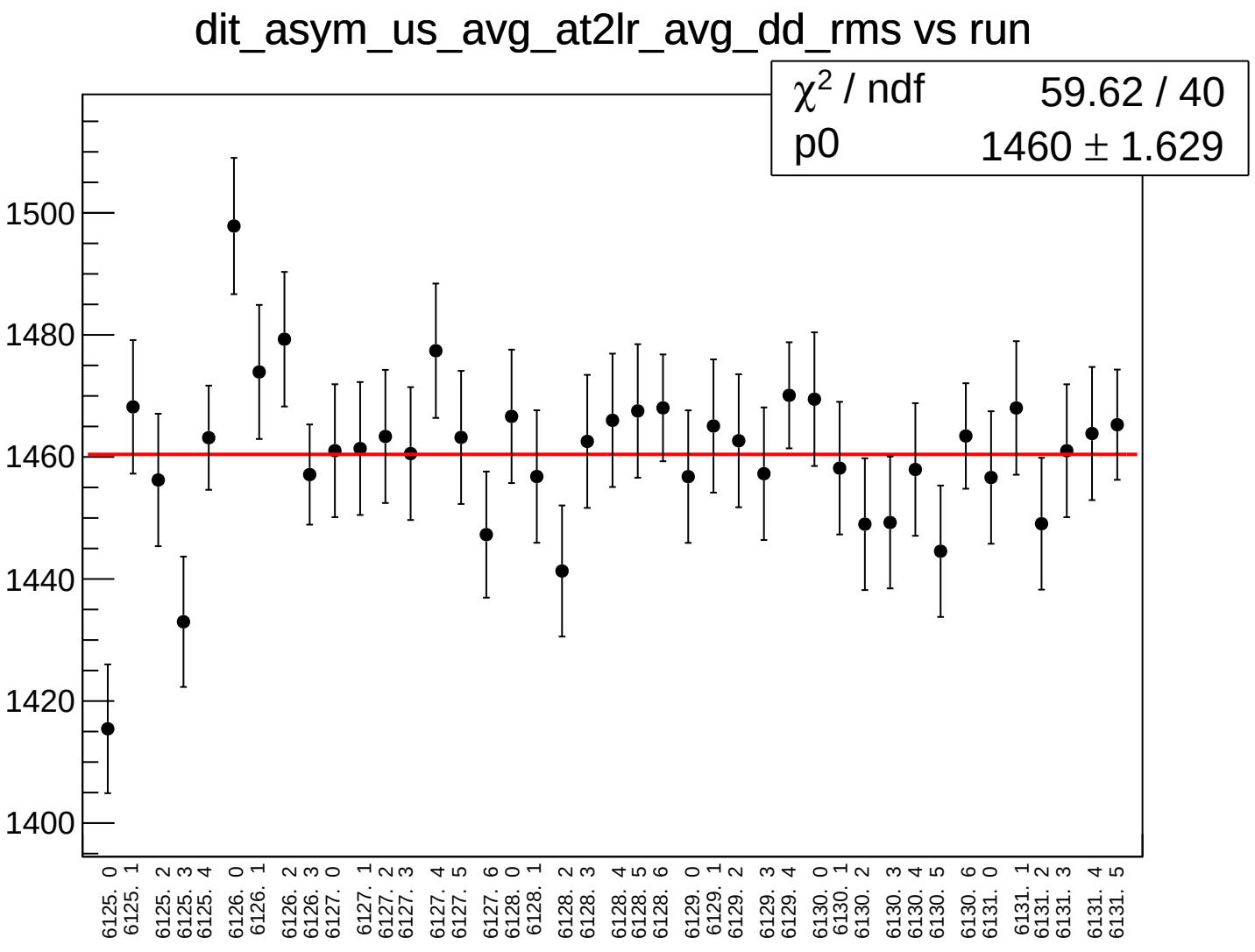
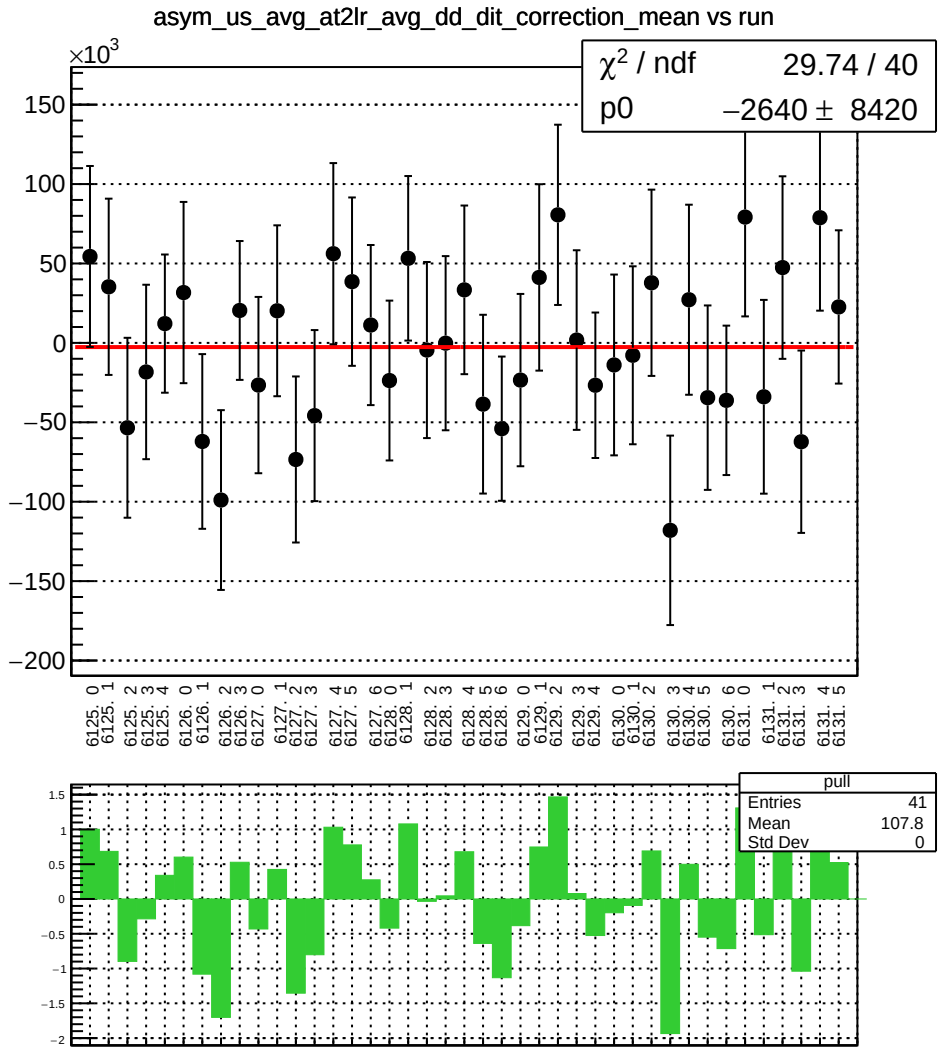
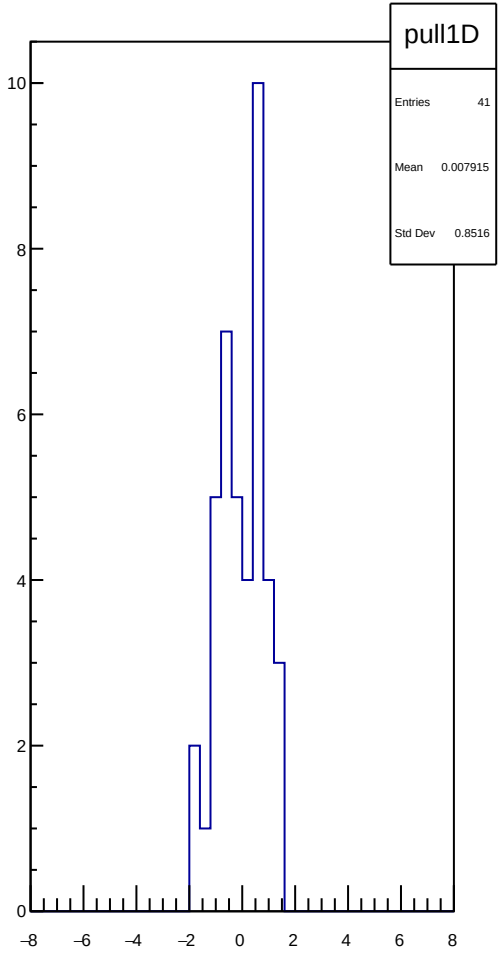
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 37.5 / 40
p0 765.9 ± 2303
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 48.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.0261
Std Dev 0.956
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 59.62 / 40
p0 1460 ± 1.629
1500
1480
1460
1440
1420
1400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 29.74 / 40
p0 −2640 ± 8420
150
100
50
0
−50
−100
−150
−200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 107.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.007915
Std Dev 0.8516
10
8
6
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2
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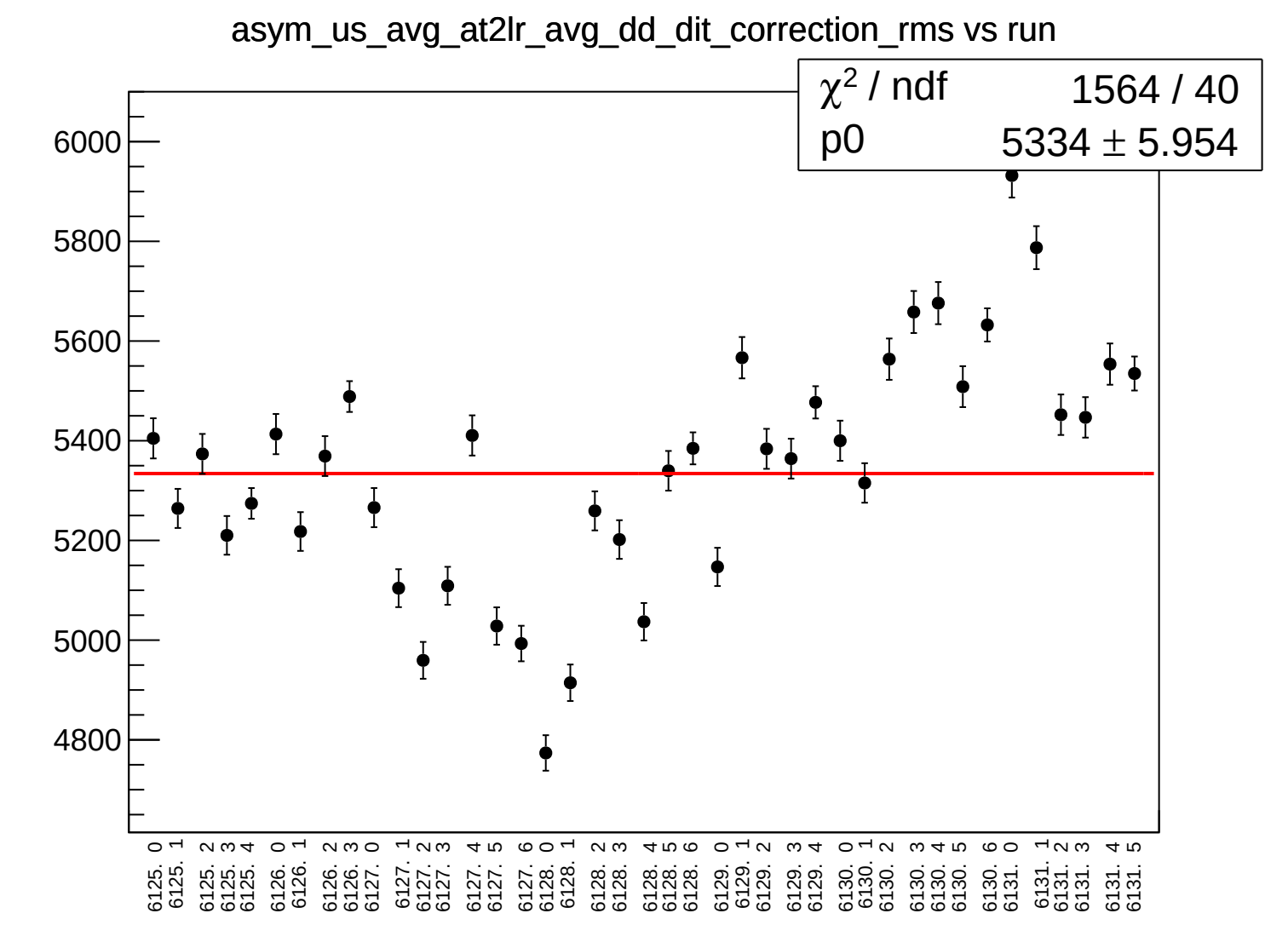
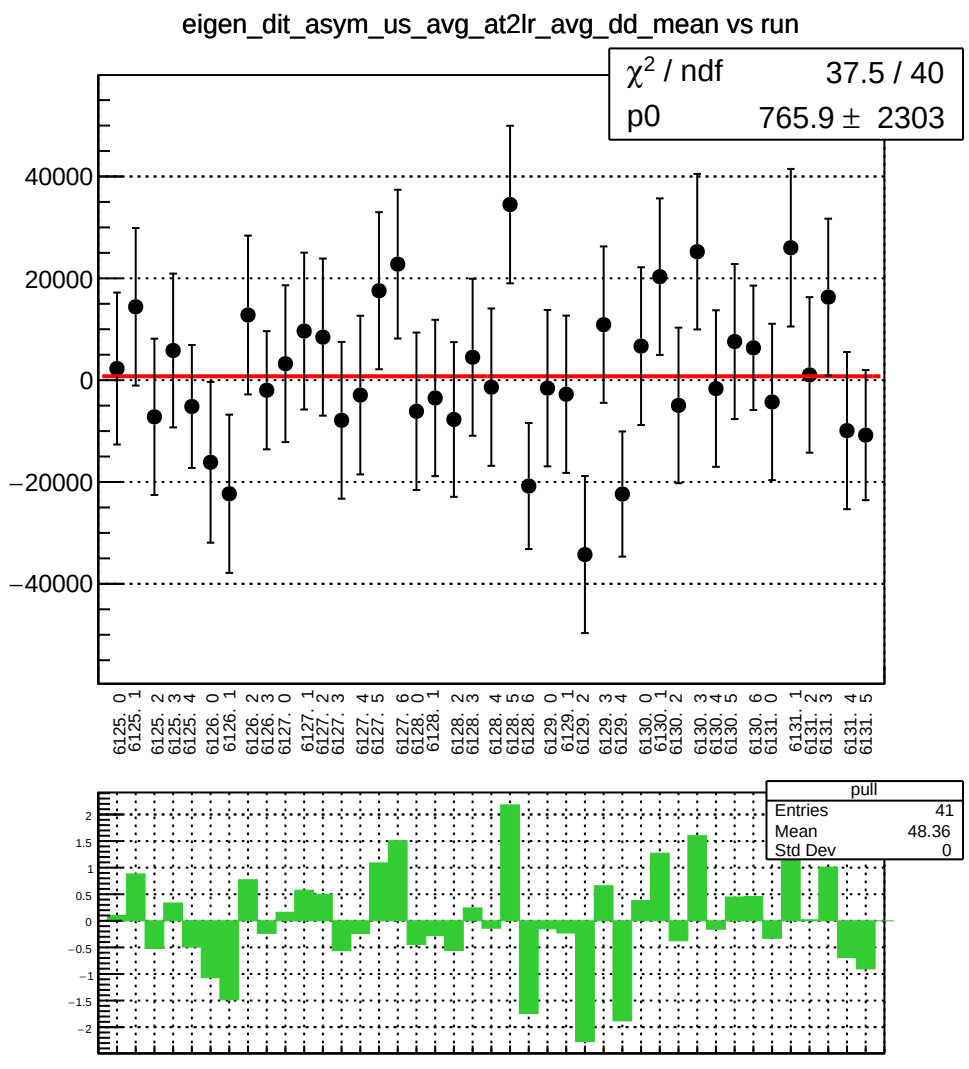
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1564 / 40
p0 5334 ± 5.954
6000
5800
5600
5400
5200
5000
4800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 37.5 / 40
p0 765.9 ± 2303
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
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6129. 0
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6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 48.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.0261
Std Dev 0.956
9
8
7
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5
4
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−8
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−4
−2
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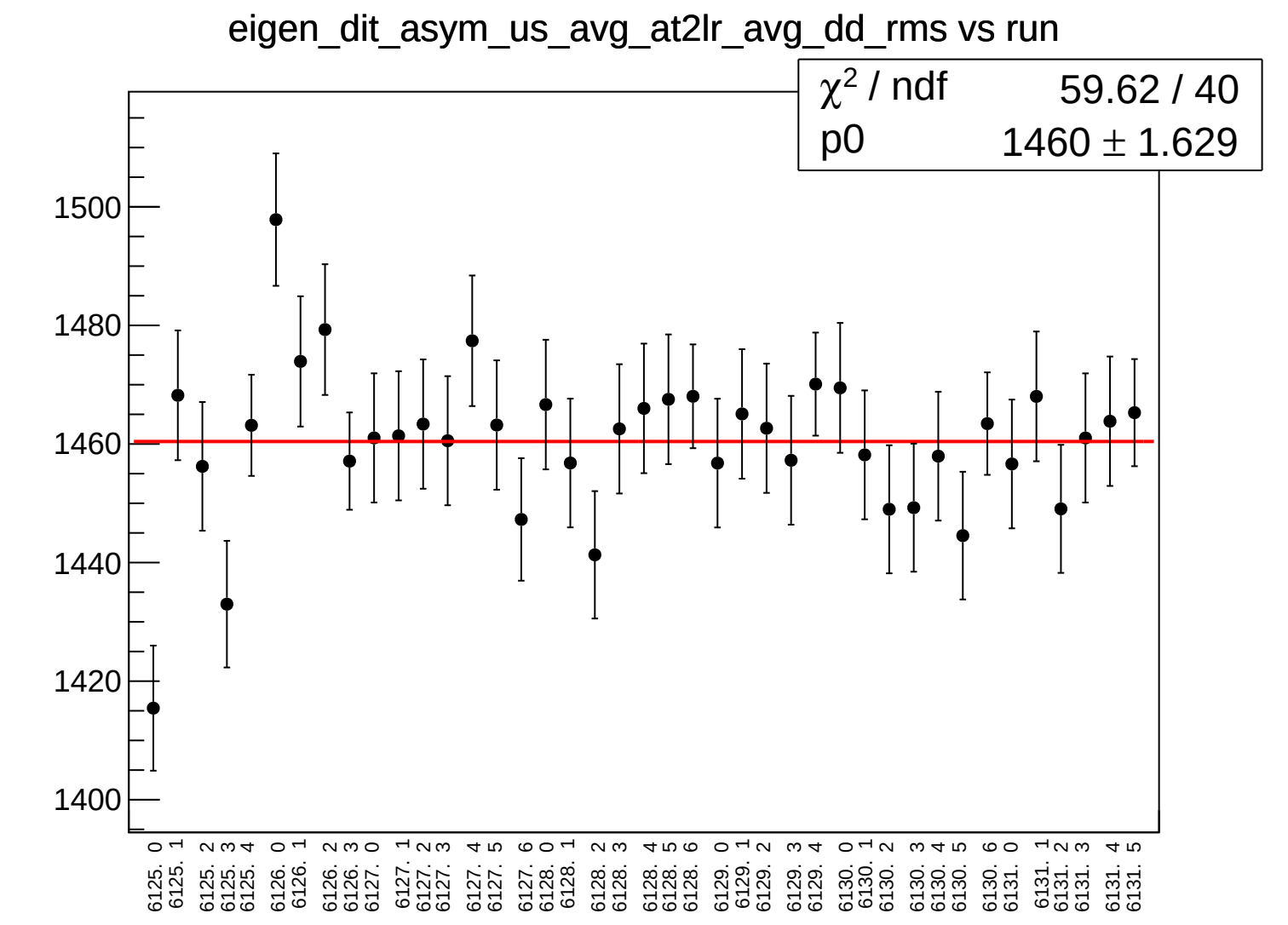
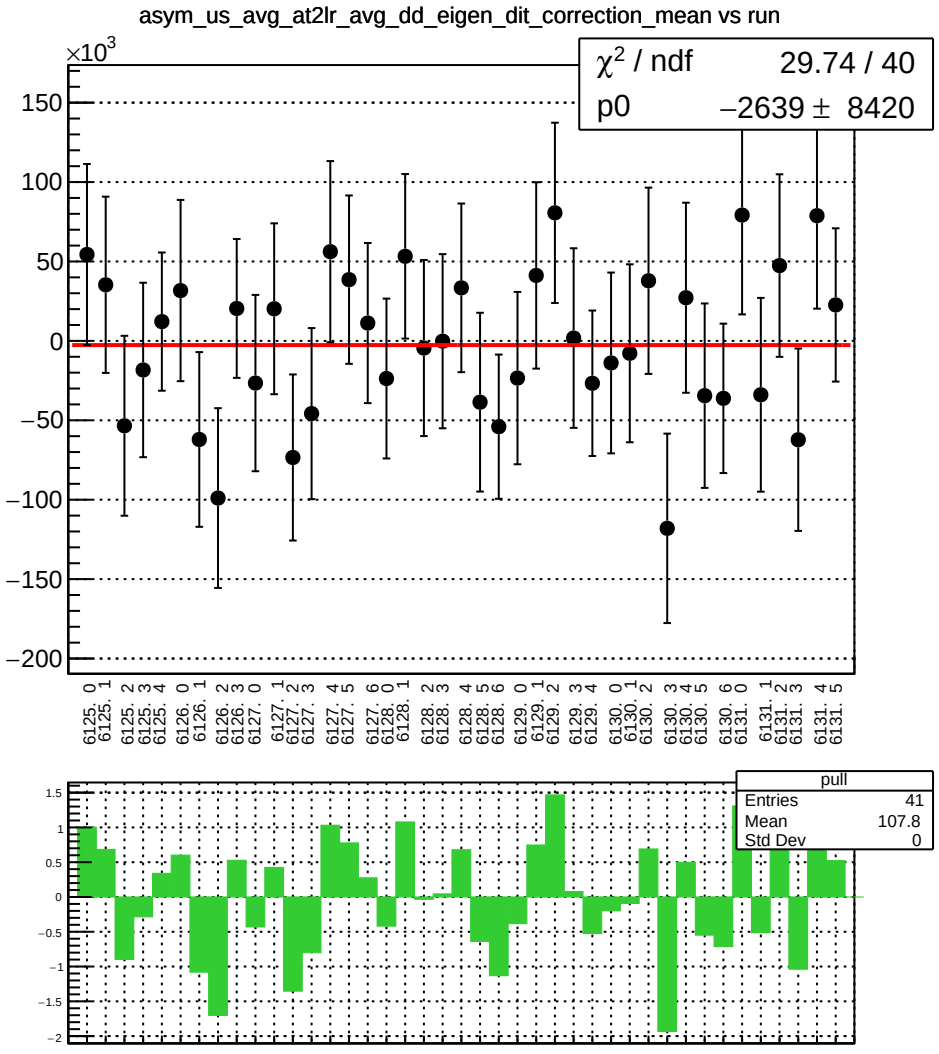
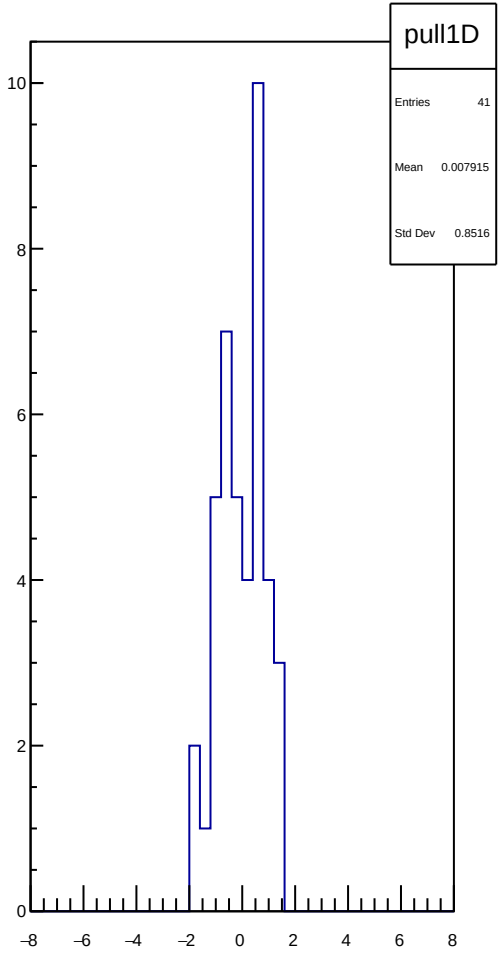
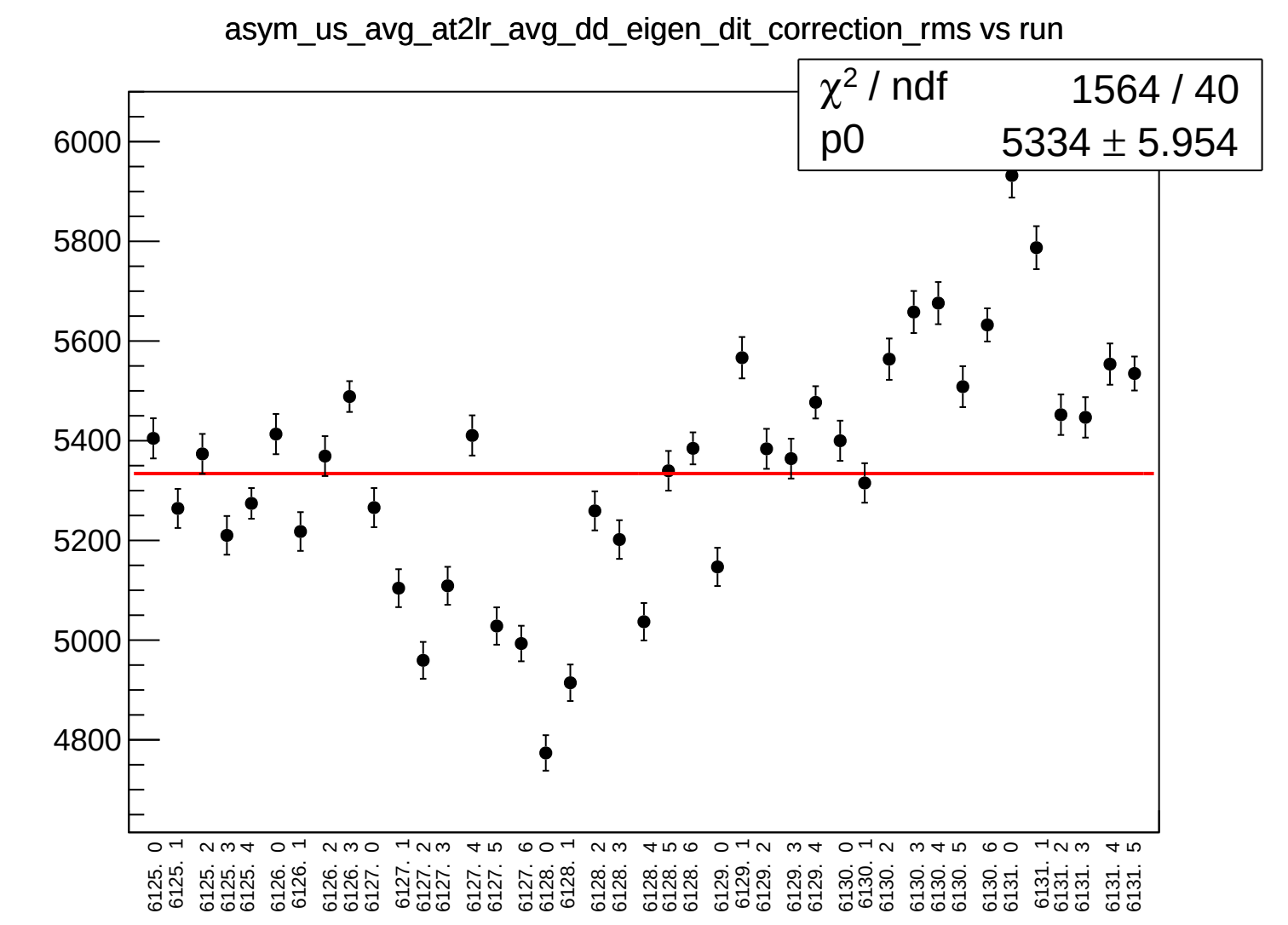
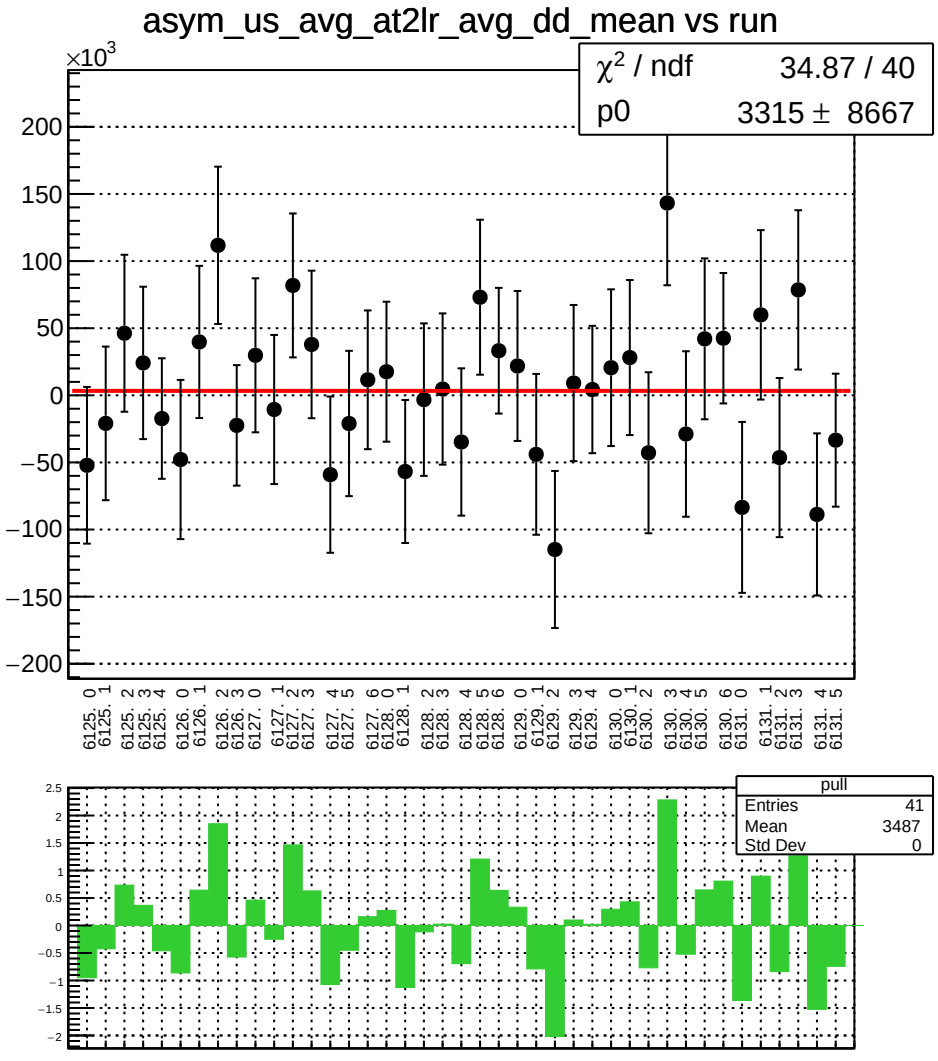
2
4
6
8

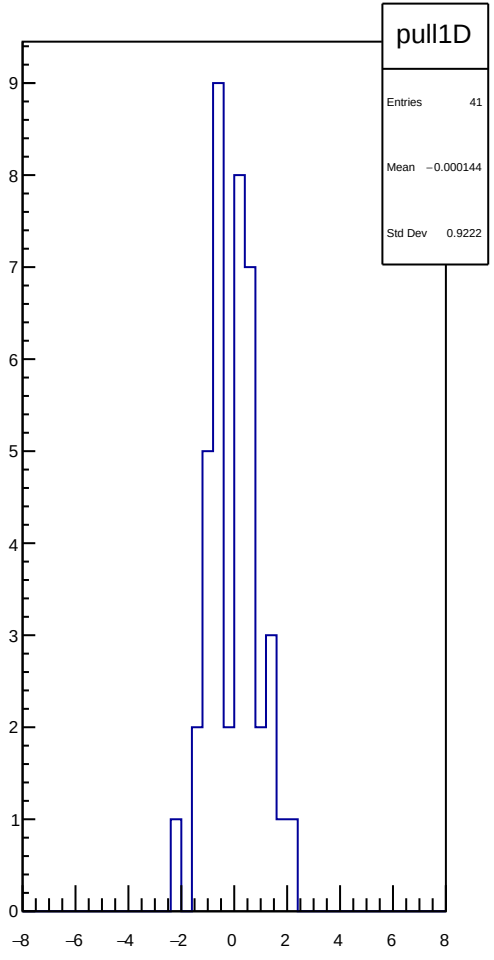

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 59.62 / 40
p0 1460 ± 1.629
1500
1480
1460
1440
1420
1400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

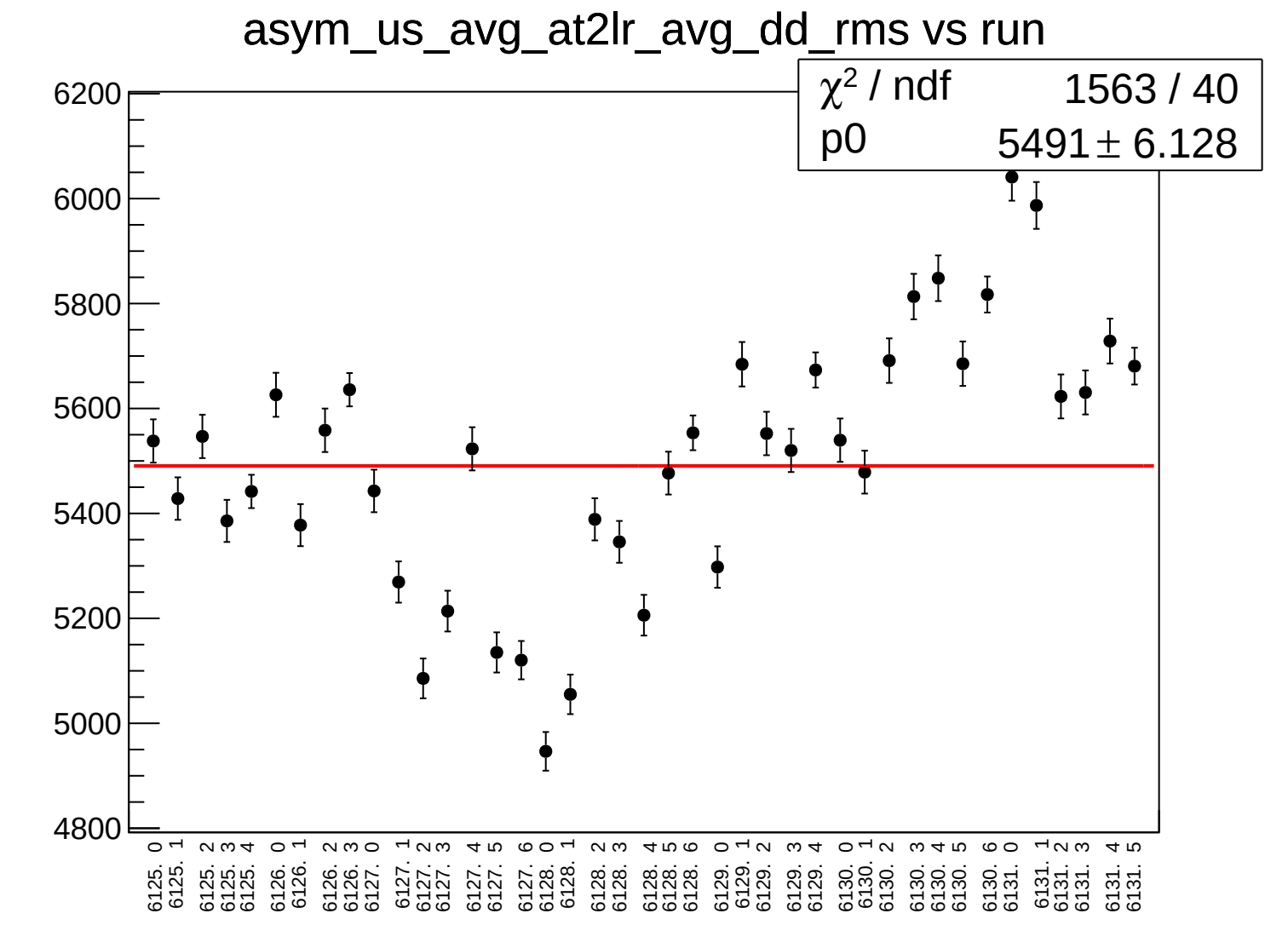

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 29.74 / 40
p0 −2639 ± 8420
150
100
50
0
−50
−100
−150
−200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 107.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

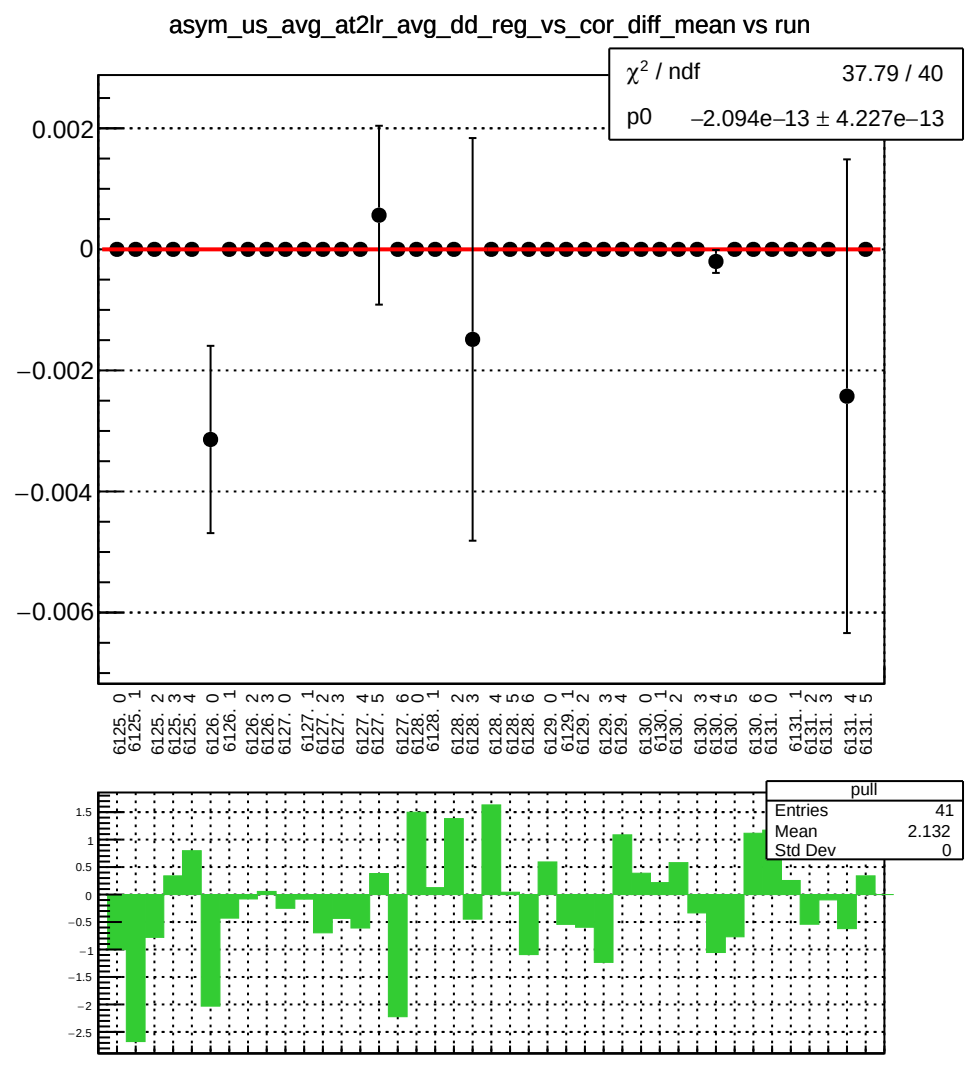

pull1D
Entries 41
Mean 0.007915
Std Dev 0.8516
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

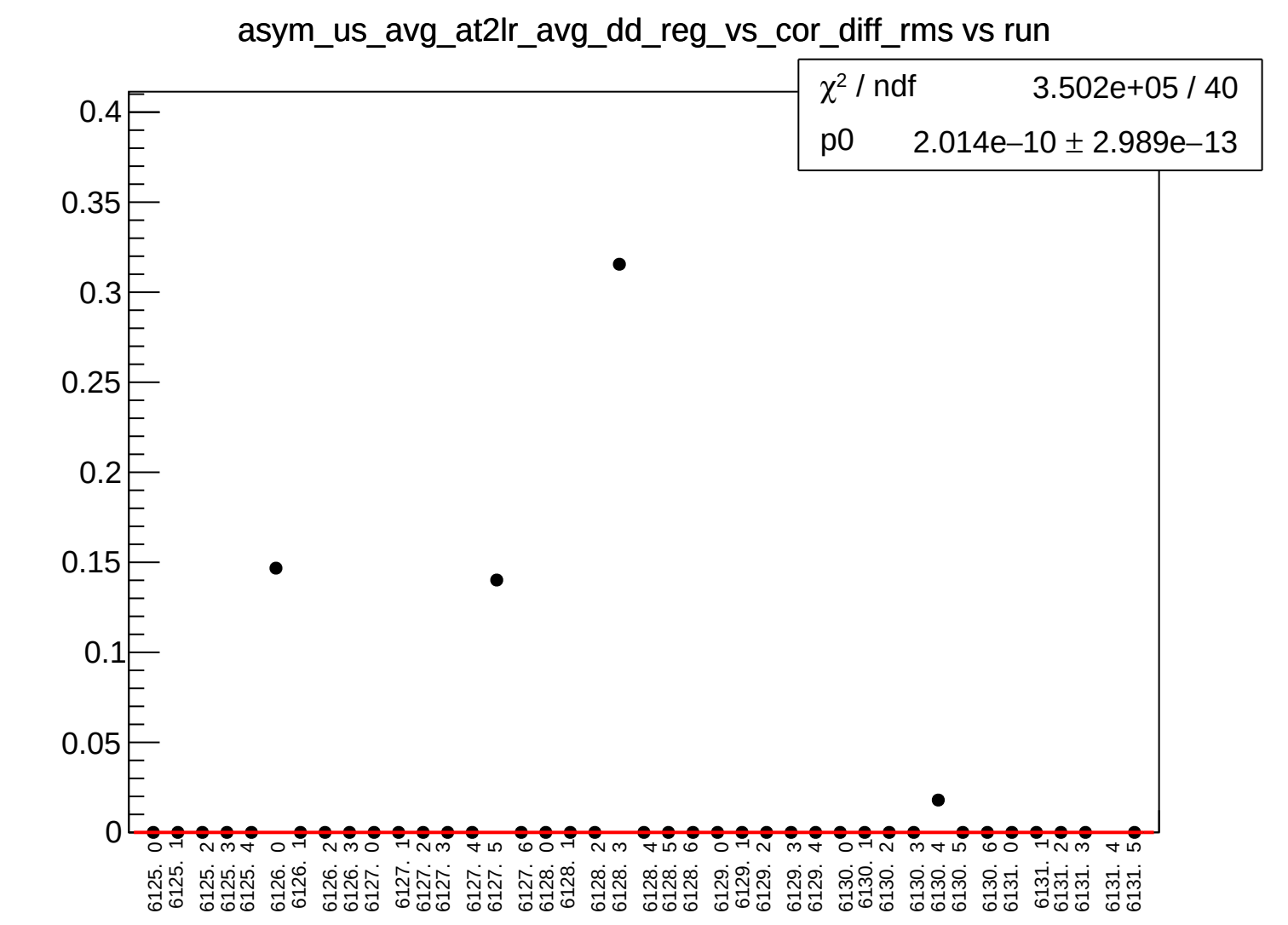

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1564 / 40
p0 5334 ± 5.954
6000
5800
5600
5400
5200
5000
4800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

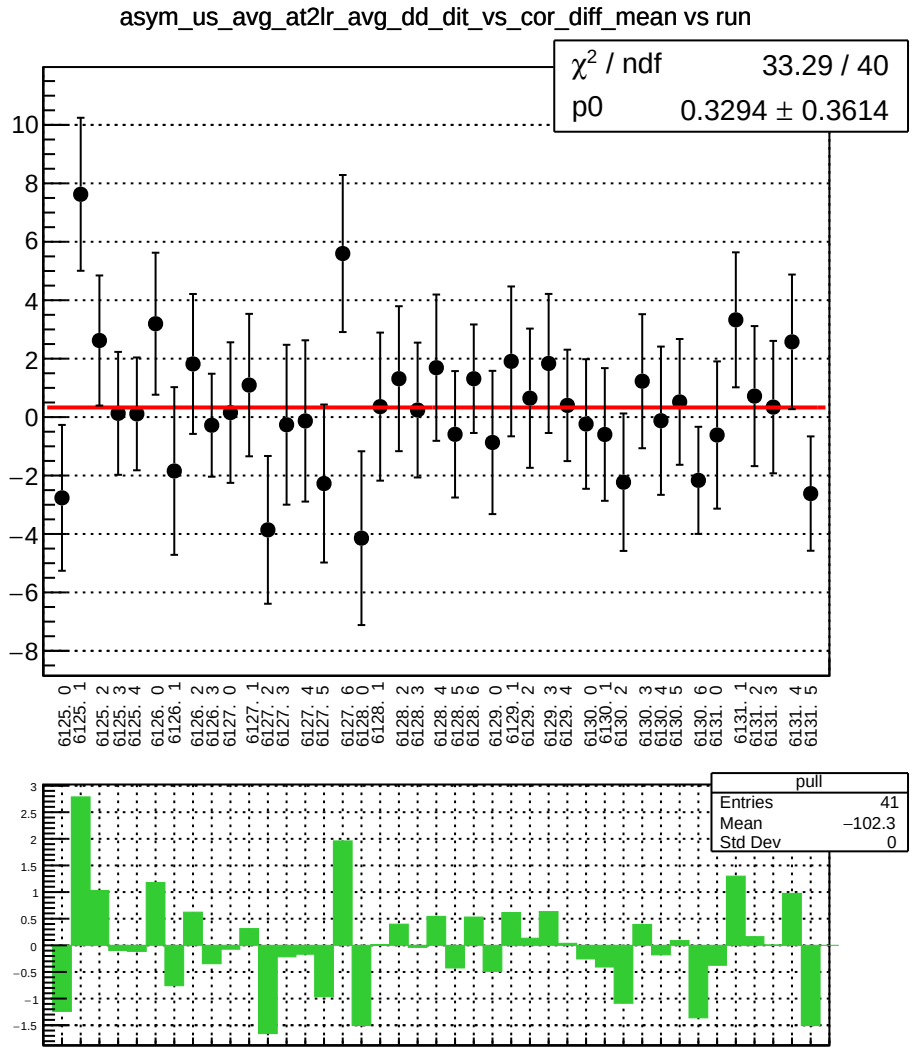

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ^2 / ndf 34.87 / 40
p0 3315 ± 8667
200
150
100
50
0
−50
−100
−150
−200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 3487
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

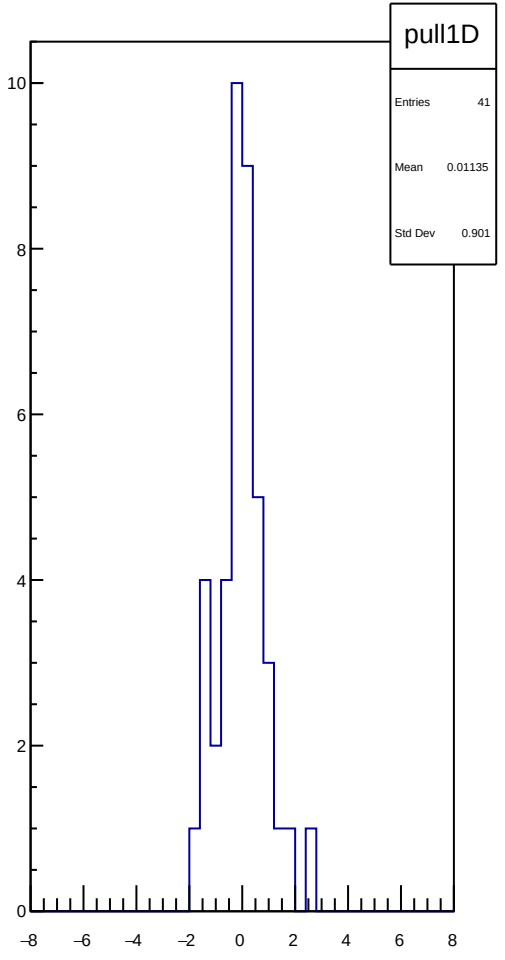

pull1D
Entries 41
Mean −0.000144
Std Dev 0.9222
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

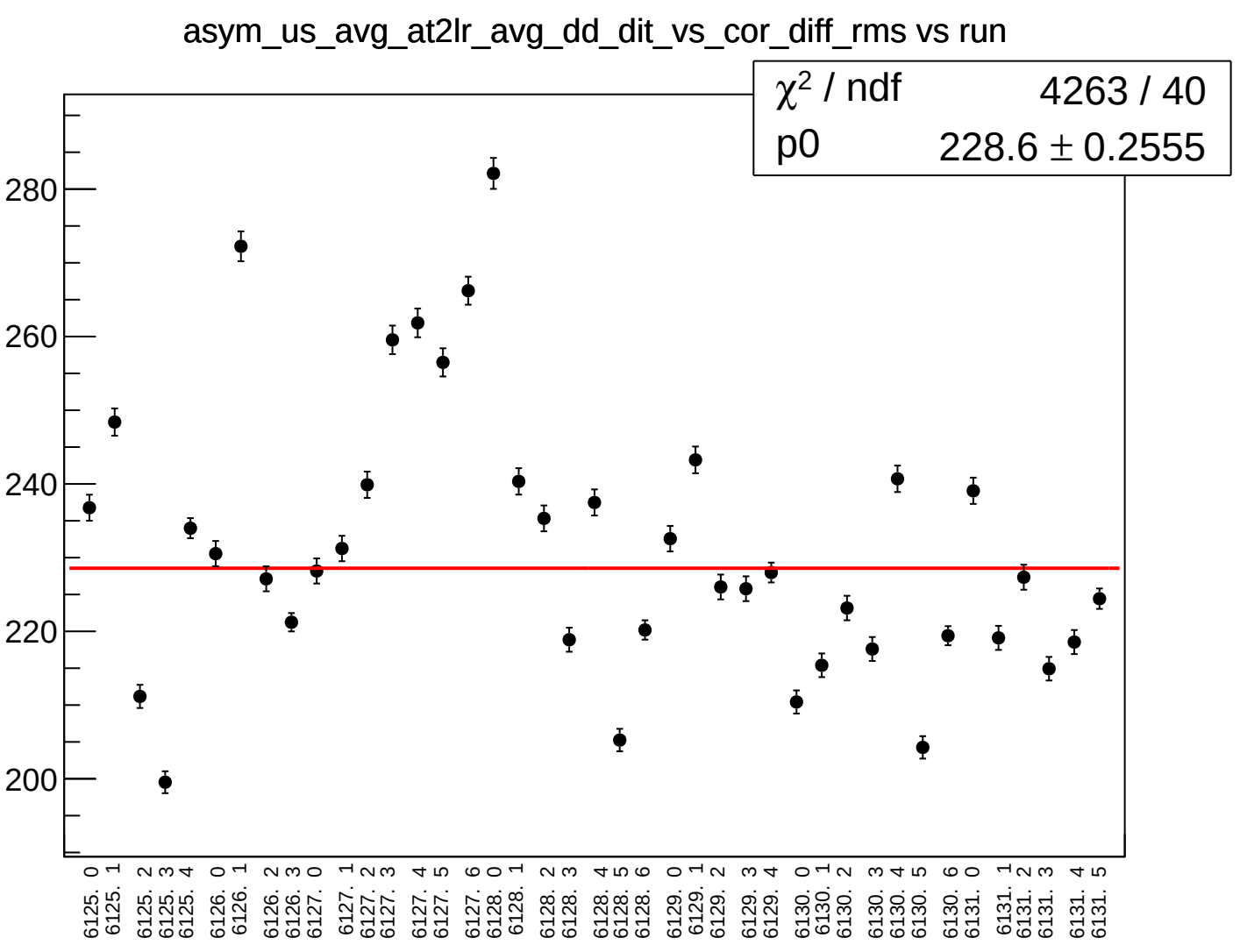

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1563 / 40
p0 5491 ± 6.128
6200
6000
5800
5600
5400
5200
5000
4800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

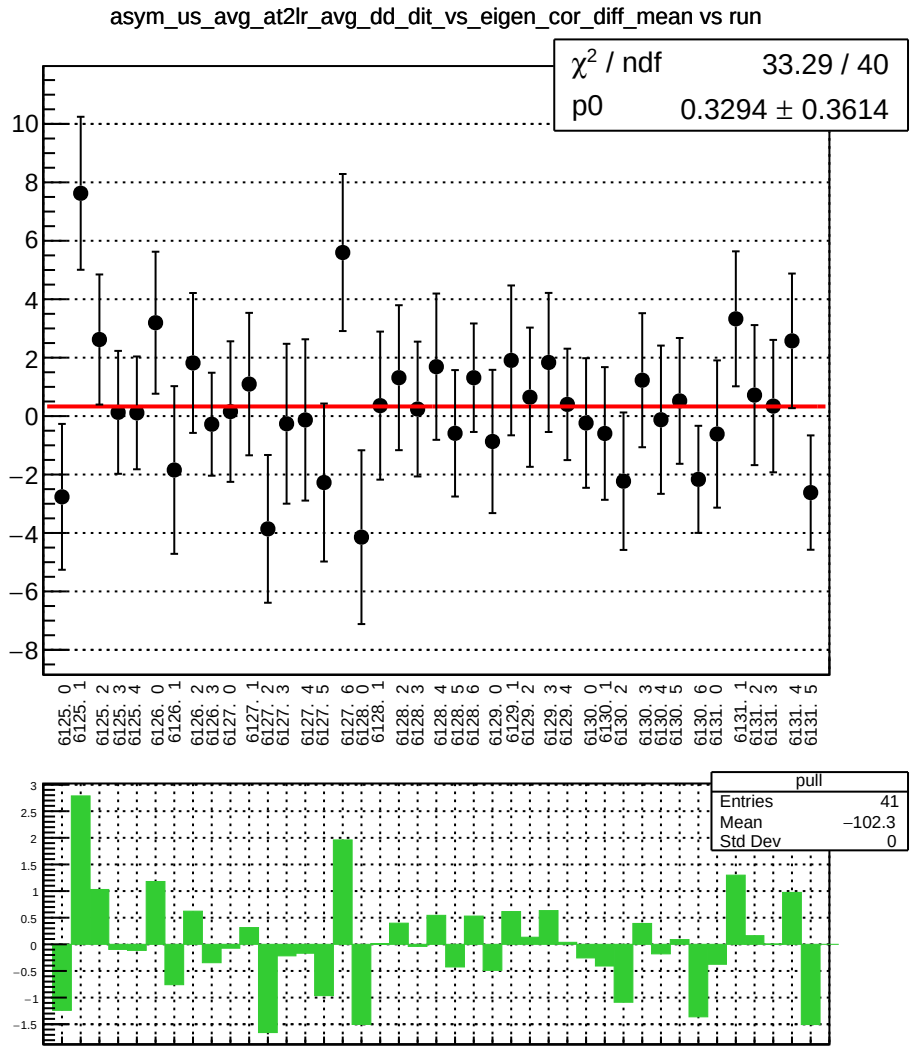

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 37.79 / 40
p0 −2.094e−13 ± 4.227e−13
0.002
0
−0.002
−0.004
−0.006
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 2.132
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean −0.1613
Std Dev 0.9464
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

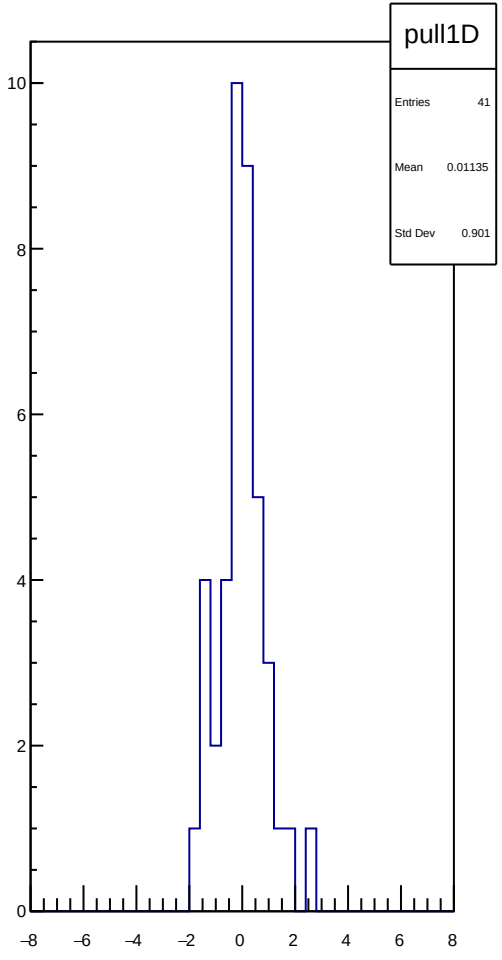

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.502e+05 / 40
p0 2.014e−10 ± 2.989e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

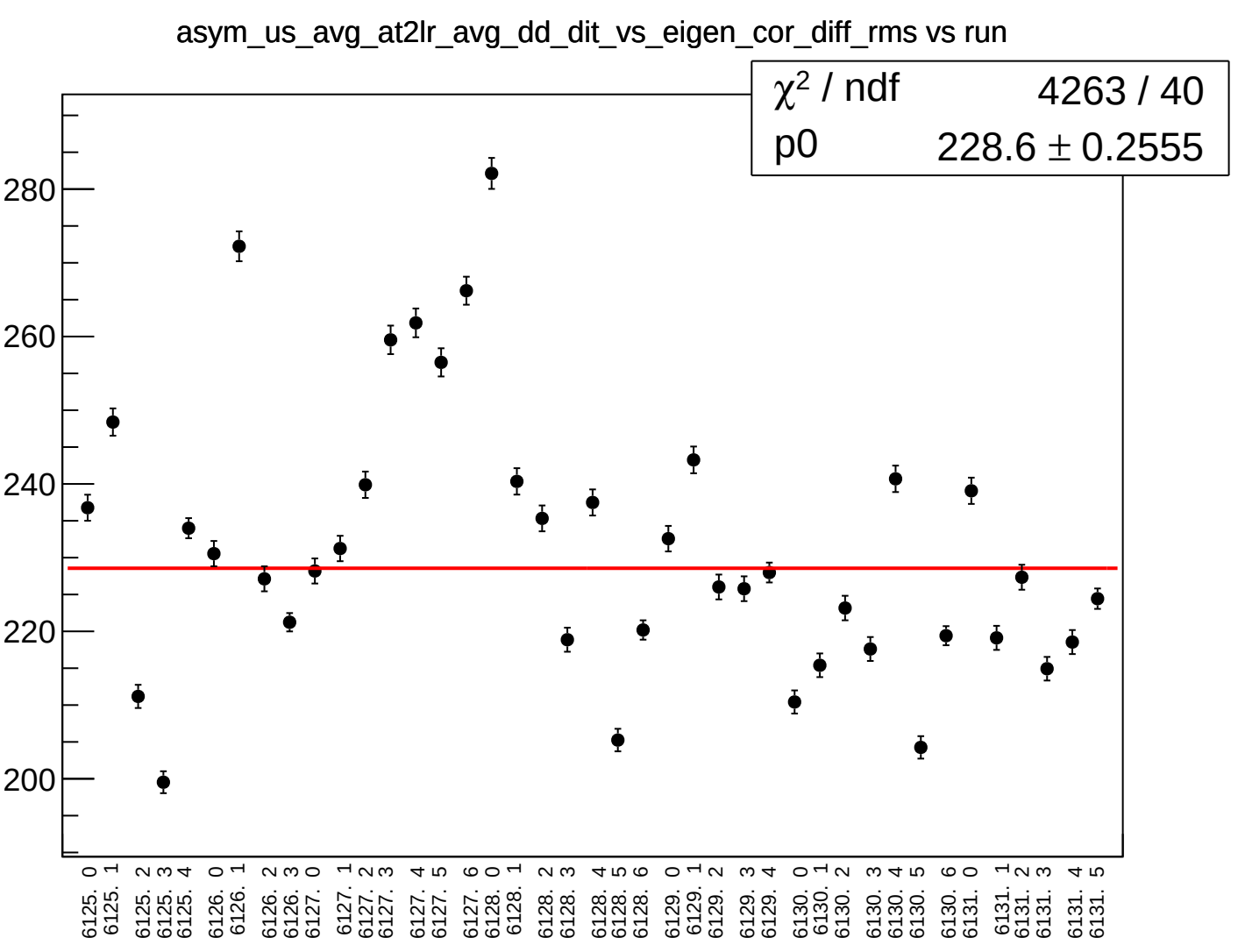

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 33.29 / 40
p0 0.3294 ± 0.3614
pull
Entries 41
Mean −102.3
Std Dev 0

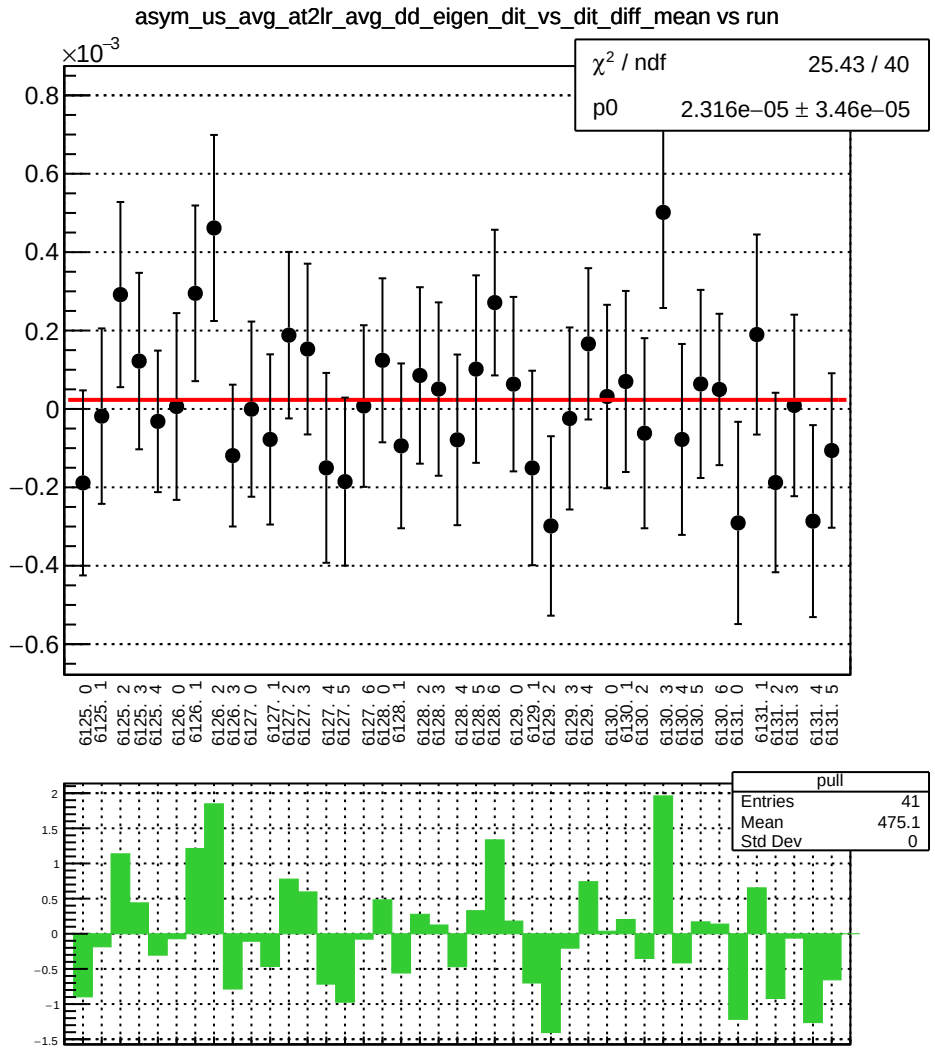

pull1D
Entries 41
Mean 0.01135
Std Dev 0.901

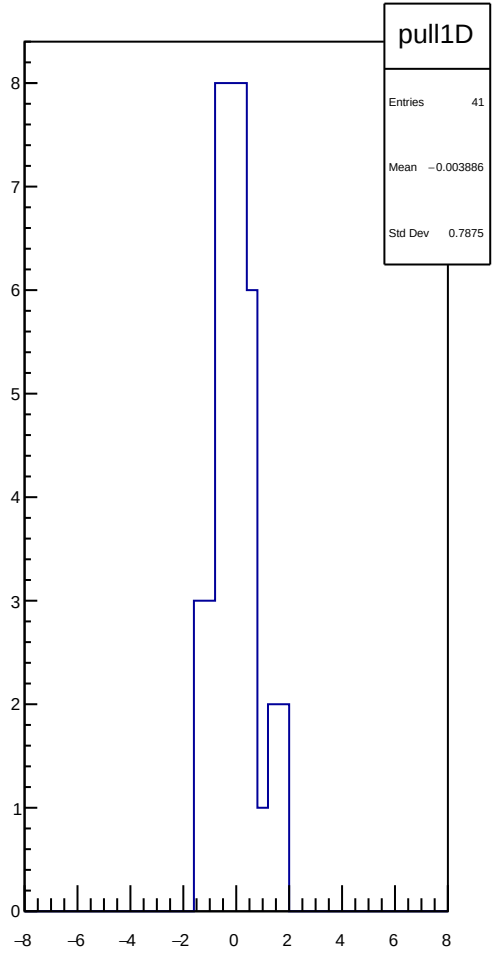

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4263 / 40
p0 228.6 ± 0.2555
280
260
240
220
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

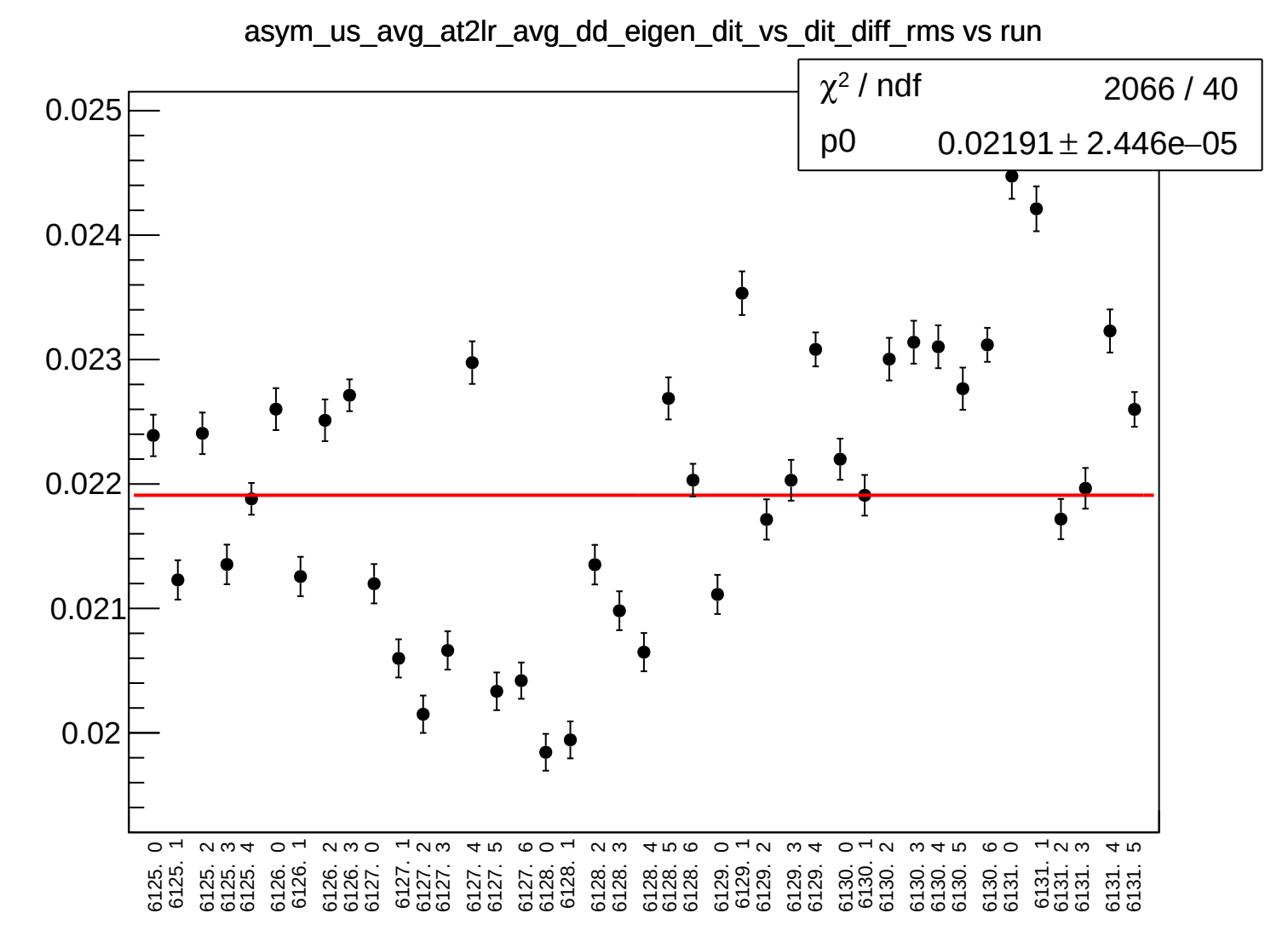

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.29 / 40
p0 0.3294 ± 0.3614
pull
Entries 41
Mean −102.3
Std Dev 0

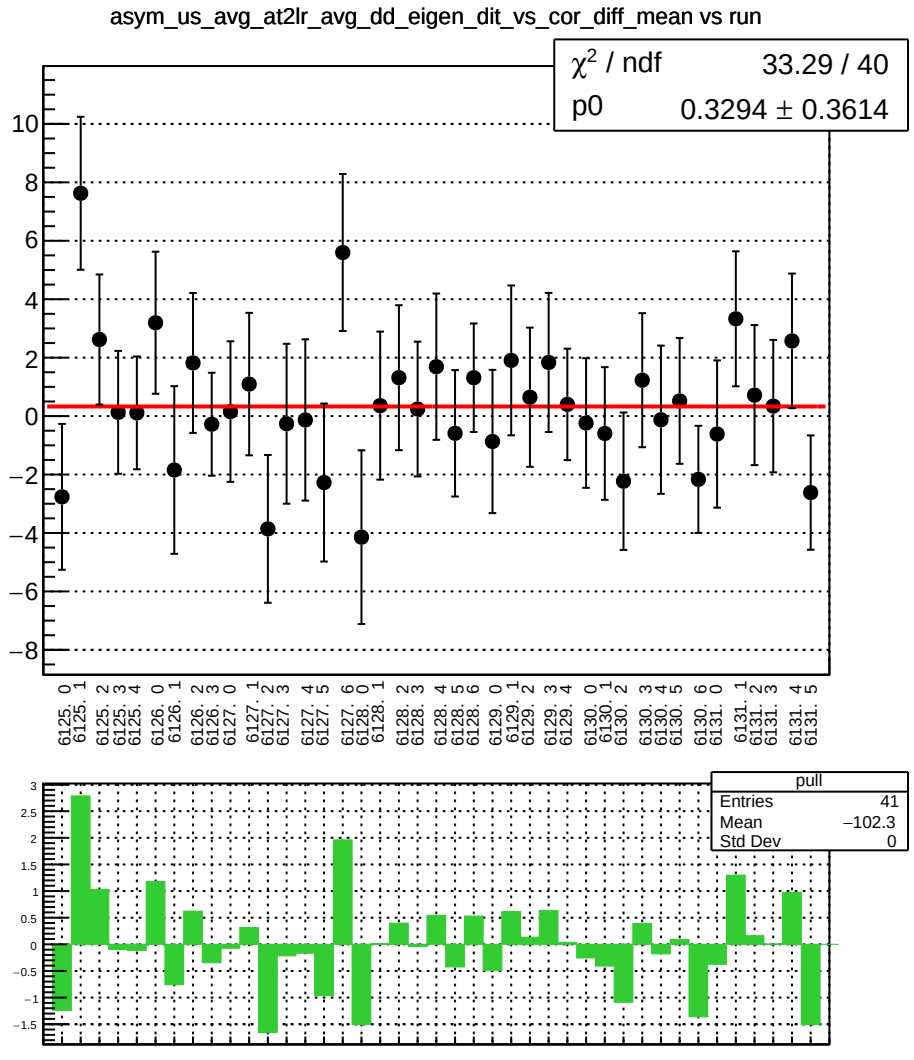

pull1D
Entries 41
Mean 0.01135
Std Dev 0.901

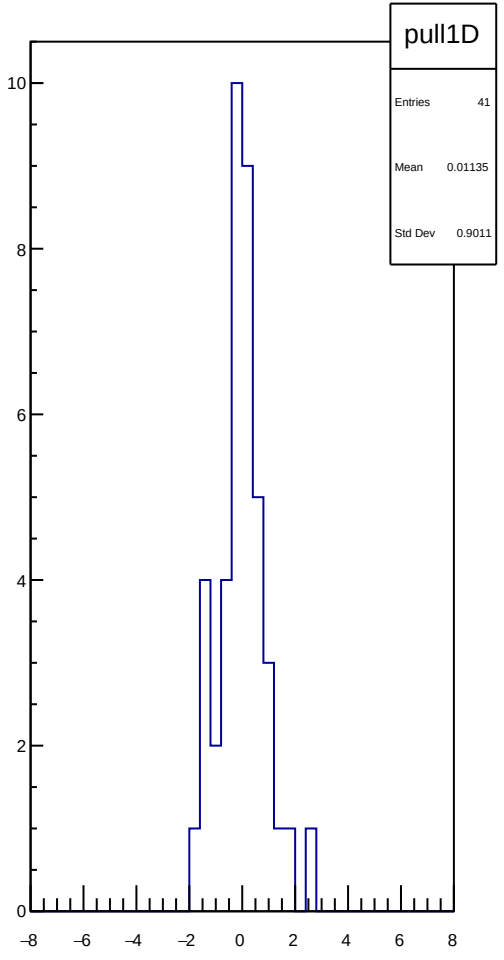

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4263 / 40
p0 228.6 ± 0.2555
280
260
240
220
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

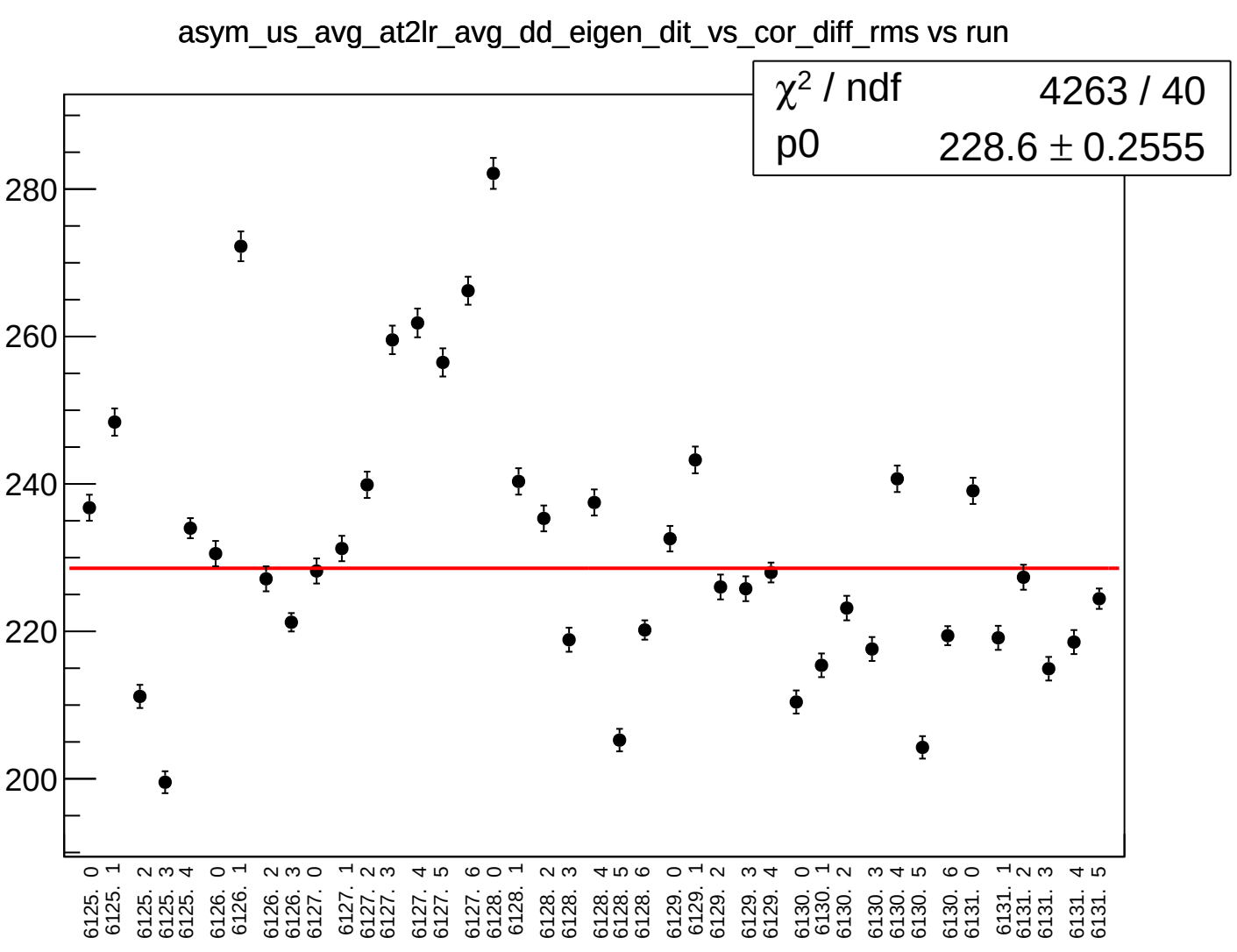

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 25.43 / 40
p0 2.316e−05 ± 3.46e−05
pull
Entries 41
Mean 475.1
Std Dev 0

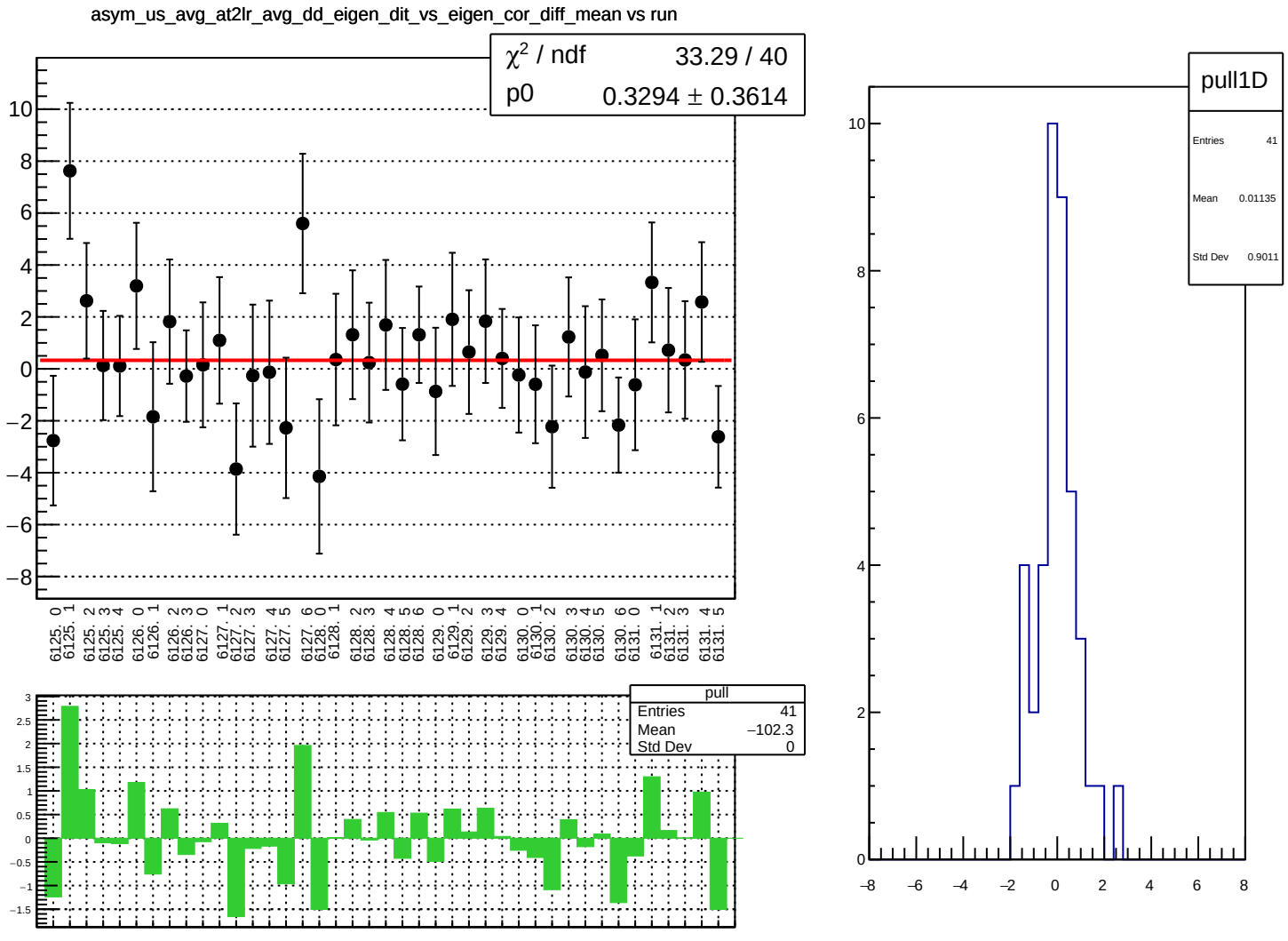

pull1D
Entries 41
Mean −0.003886
Std Dev 0.7875

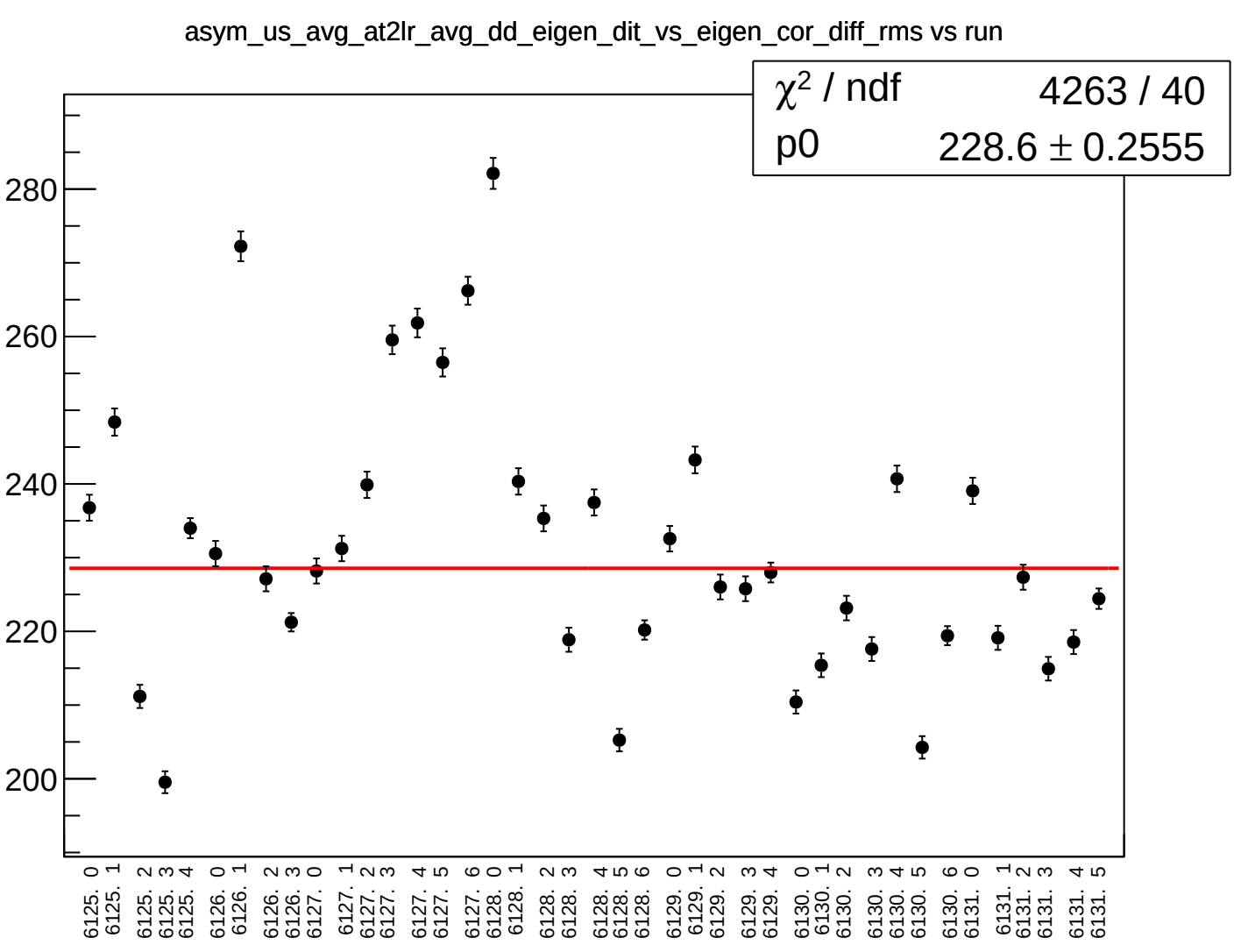

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2066 / 40
p0 0.02191 ± 2.446e−05
0.025
0.024
0.023
0.022
0.021
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

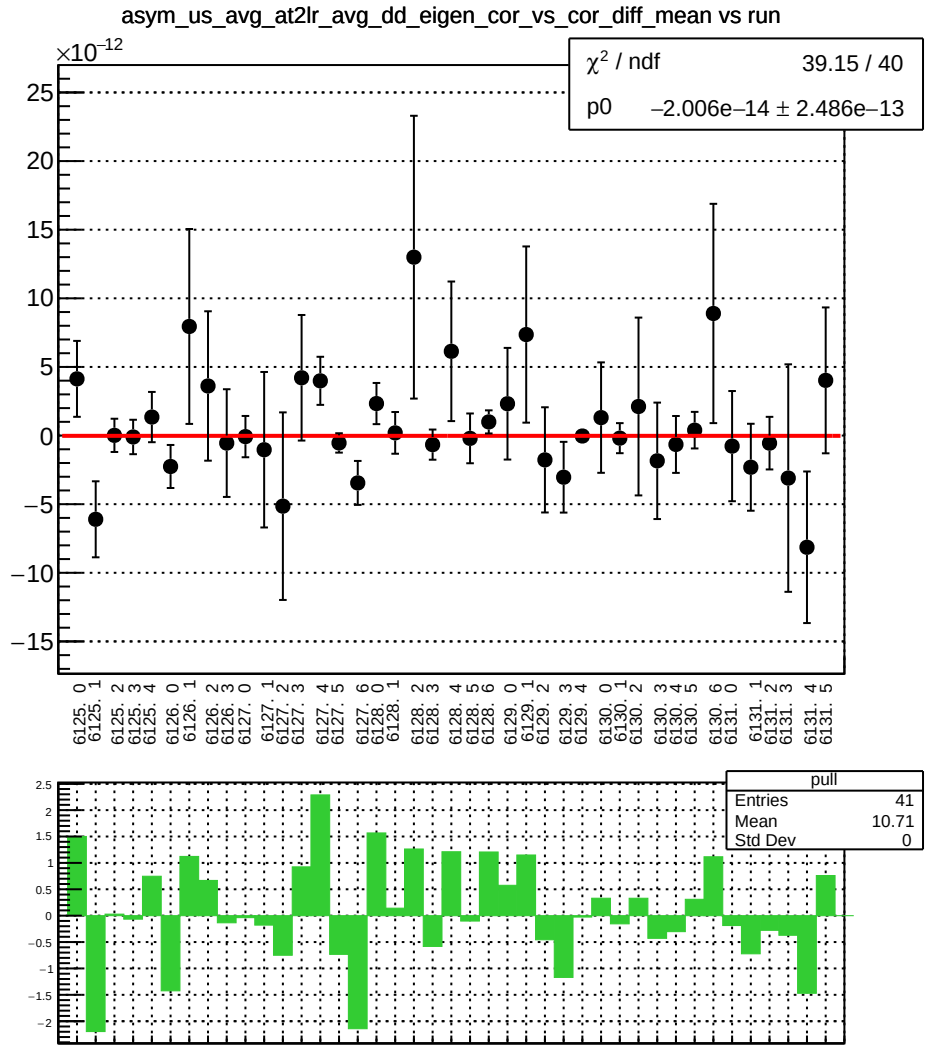

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 33.29 / 40
p0 0.3294 ± 0.3614
pull
Entries 41
Mean −102.3
Std Dev 0

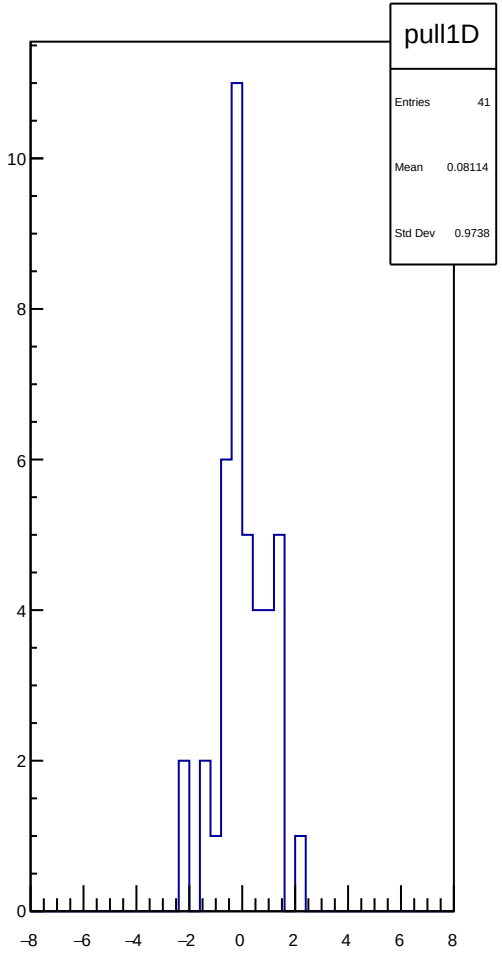

pull1D
Entries 41
Mean 0.01135
Std Dev 0.9011

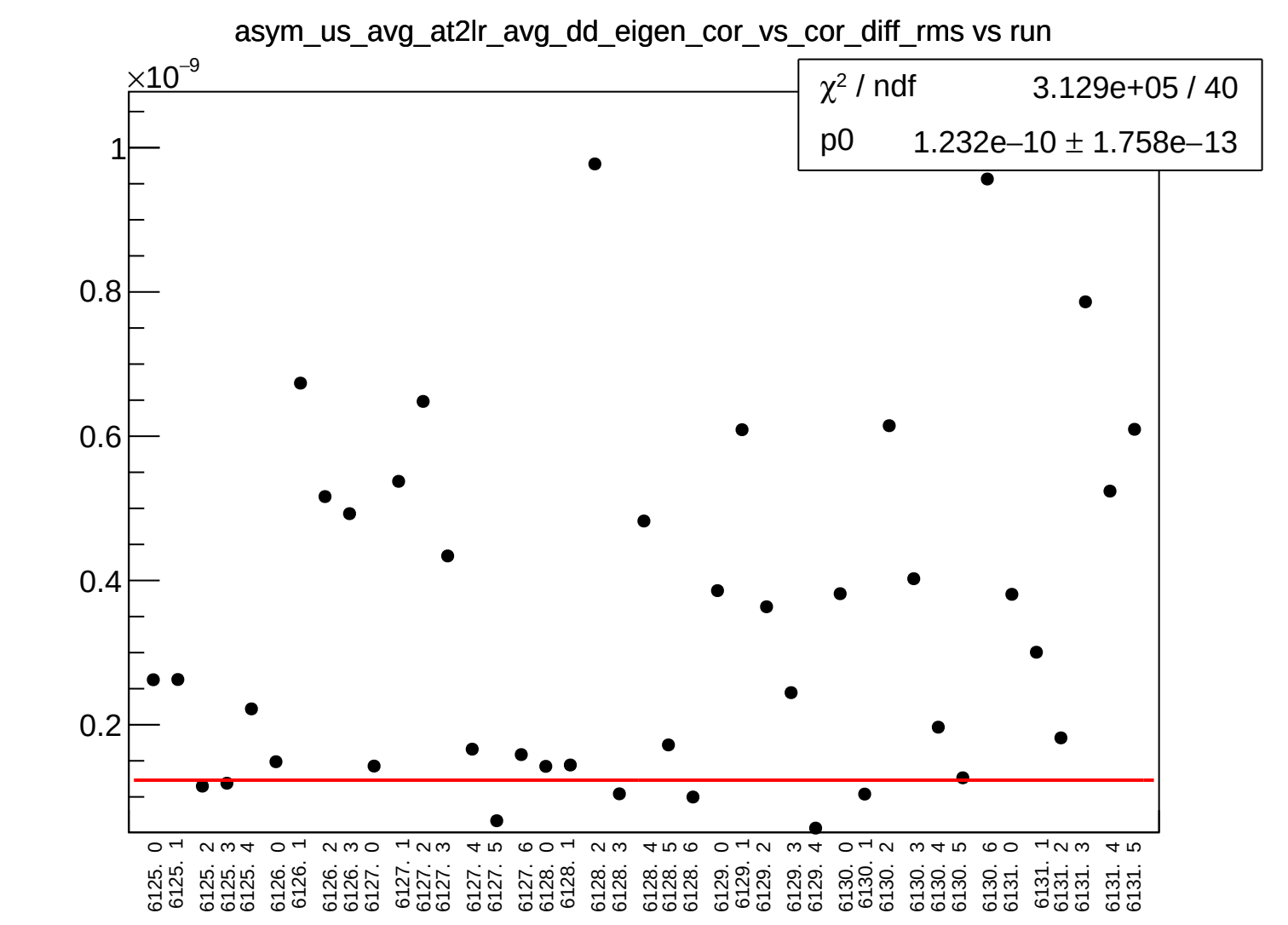

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4263 / 40
p0 228.6 ± 0.2555
280
260
240
220
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

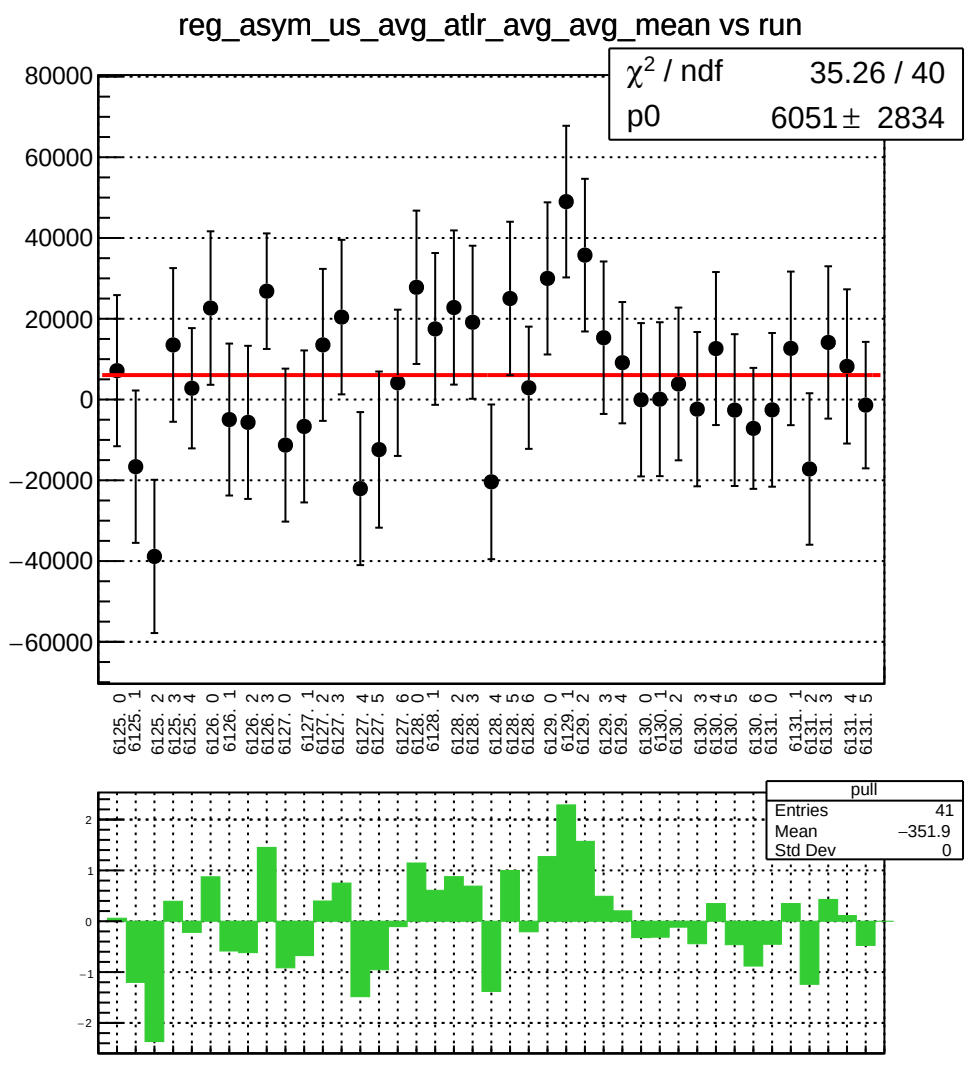

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.29 / 40
p0 0.3294 ± 0.3614
pull
Entries 41
Mean −102.3
Std Dev 0
pull1D
Entries 41
Mean 0.01135
Std Dev 0.9011

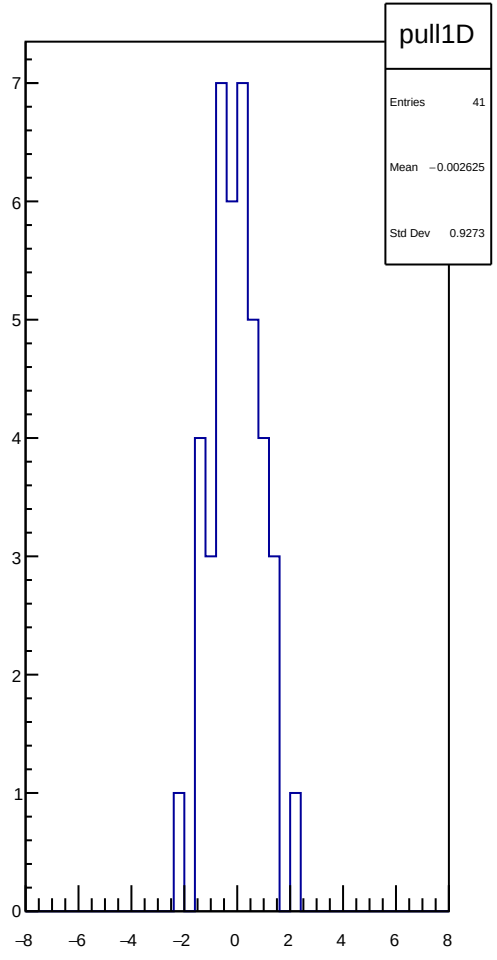

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4263 / 40
p0 228.6 ± 0.2555
280
260
240
220
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

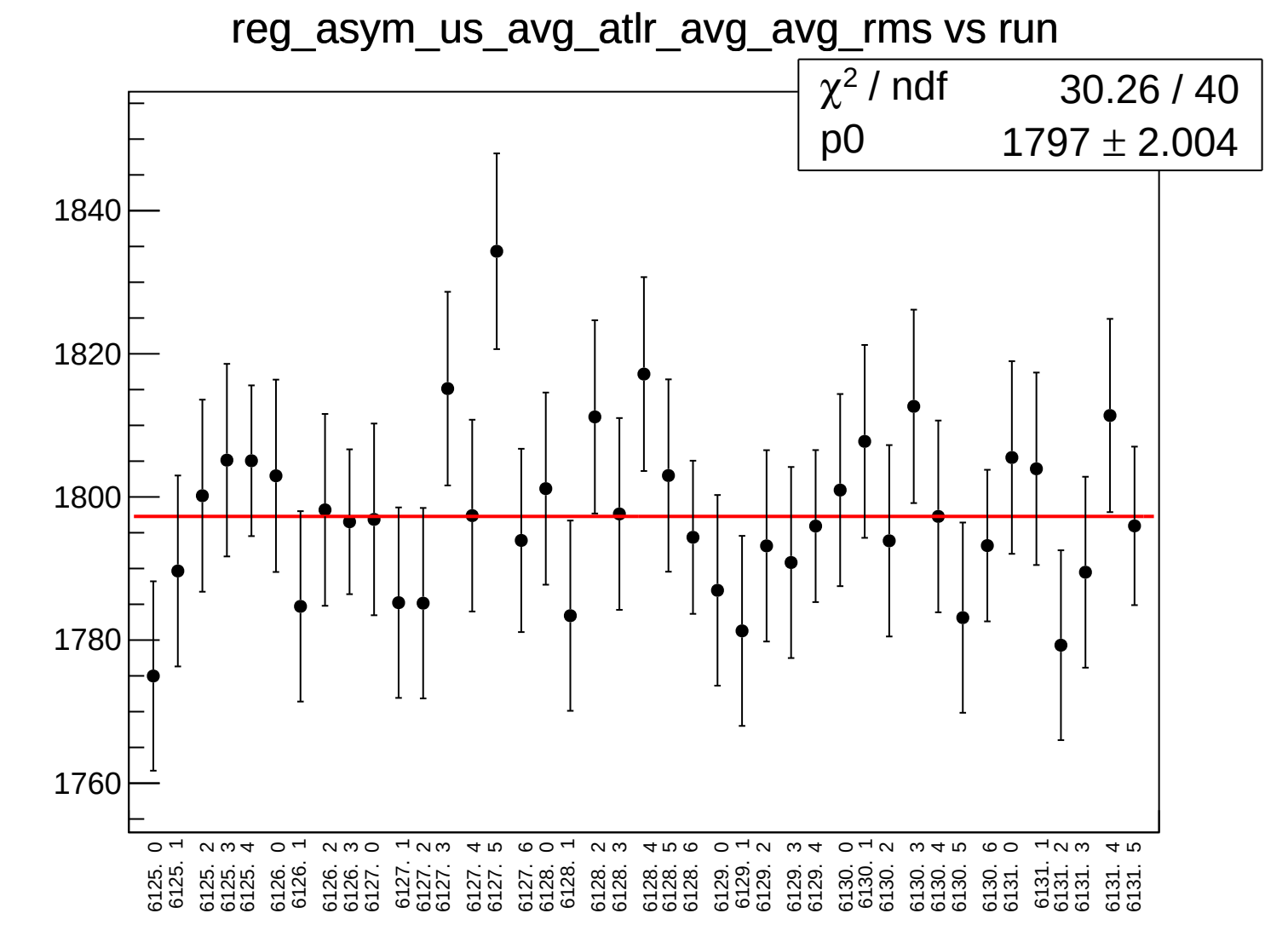

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 39.15 / 40
p0 −2.006e−14 ± 2.486e−13
pull
Entries 41
Mean 10.71
Std Dev 0

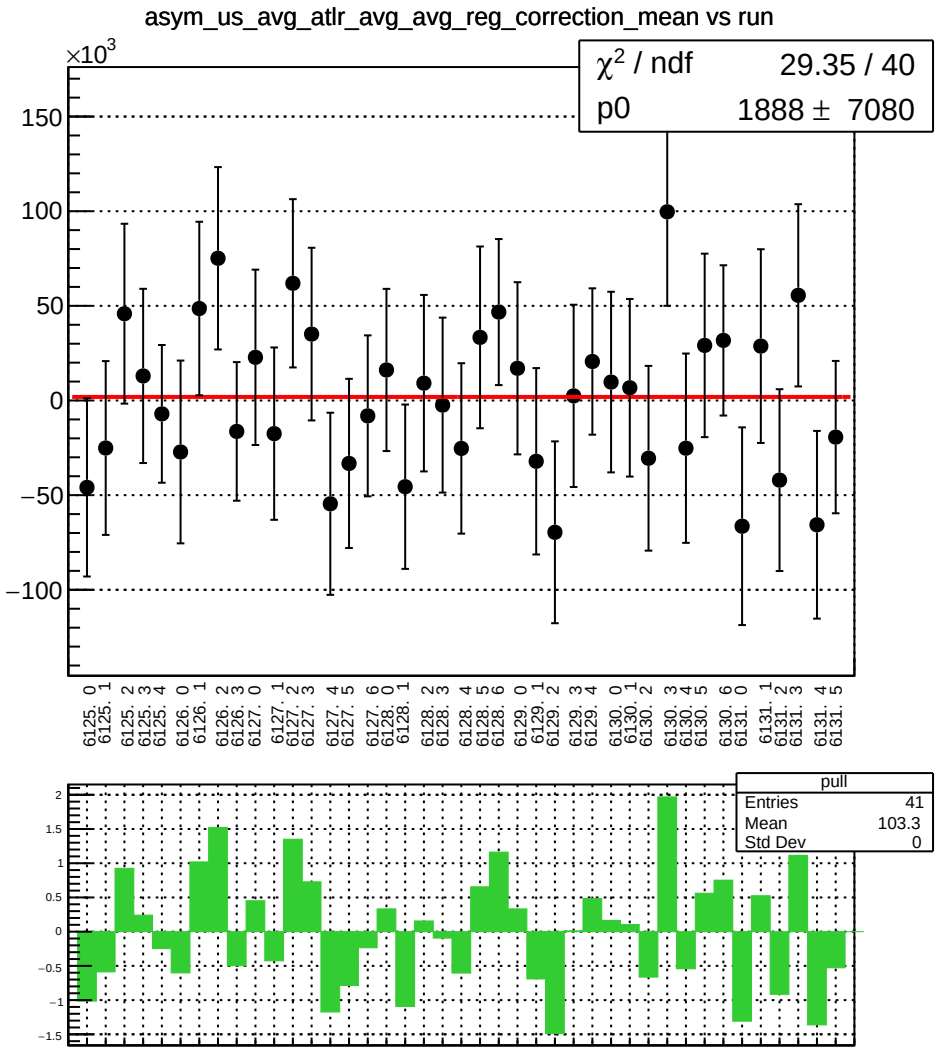

pull1D
Entries 41
Mean 0.08114
Std Dev 0.9738

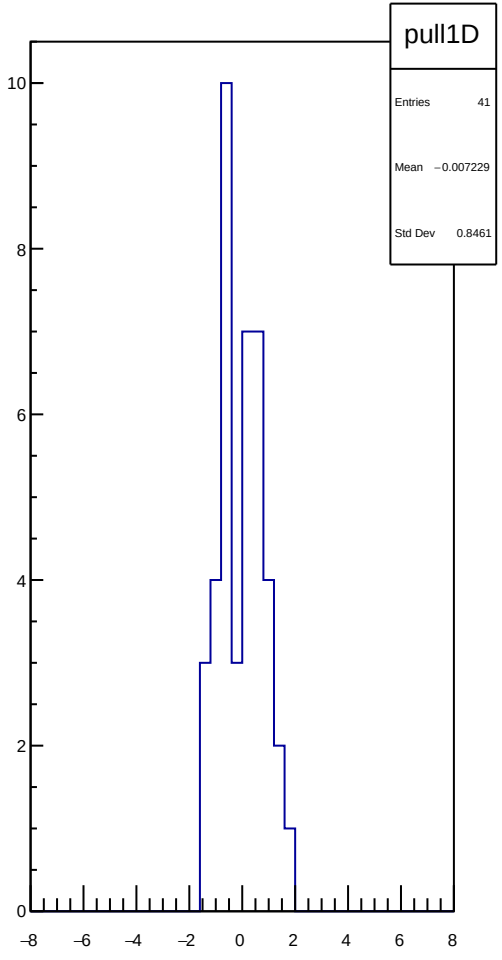

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.129e+05 / 40
p0 1.232e−10 ± 1.758e−13
1
0.8
0.6
0.4
0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

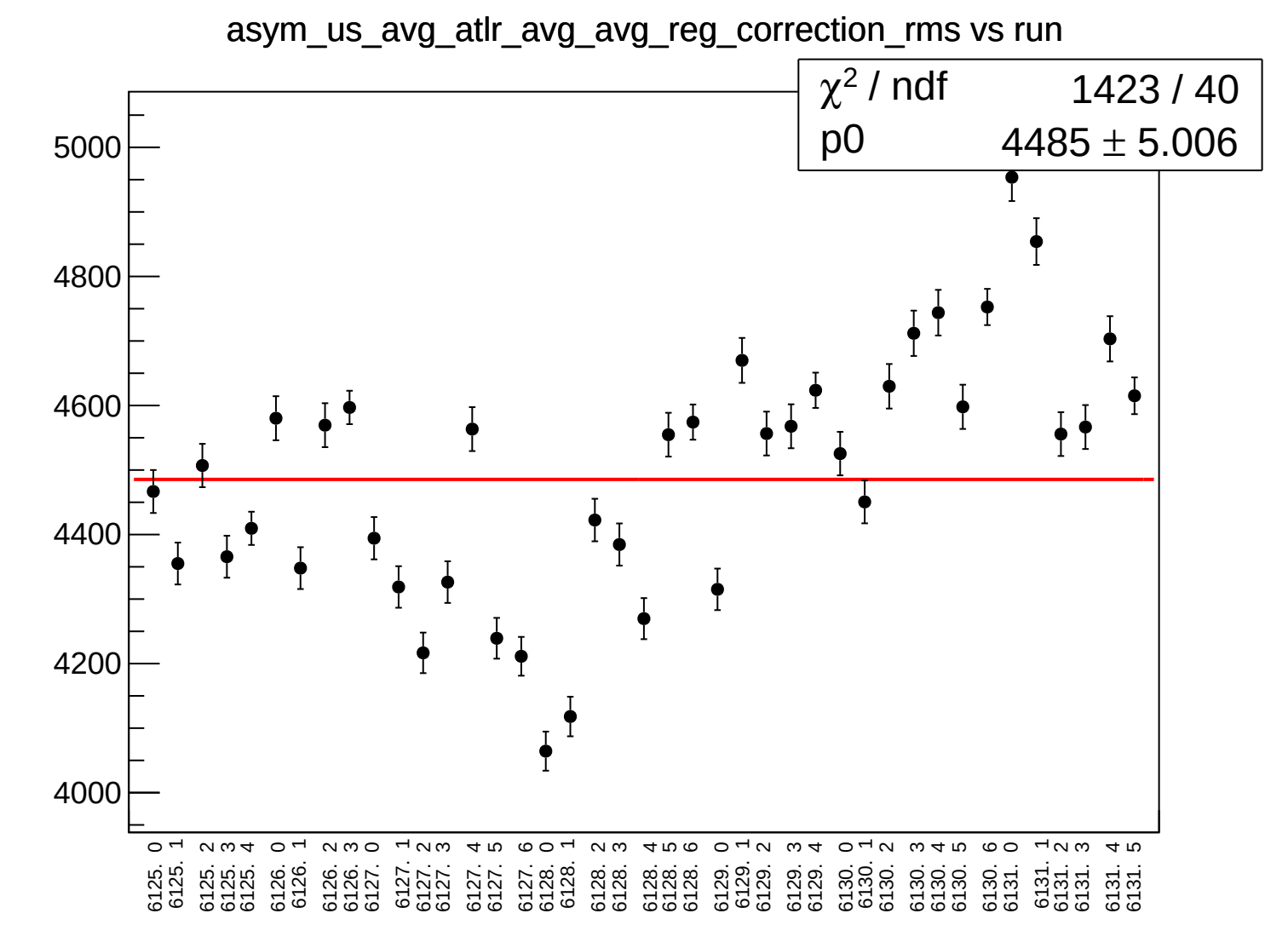

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 35.26 / 40
p0 6051 ± 2834
pull
Entries 41
Mean −351.9
Std Dev 0

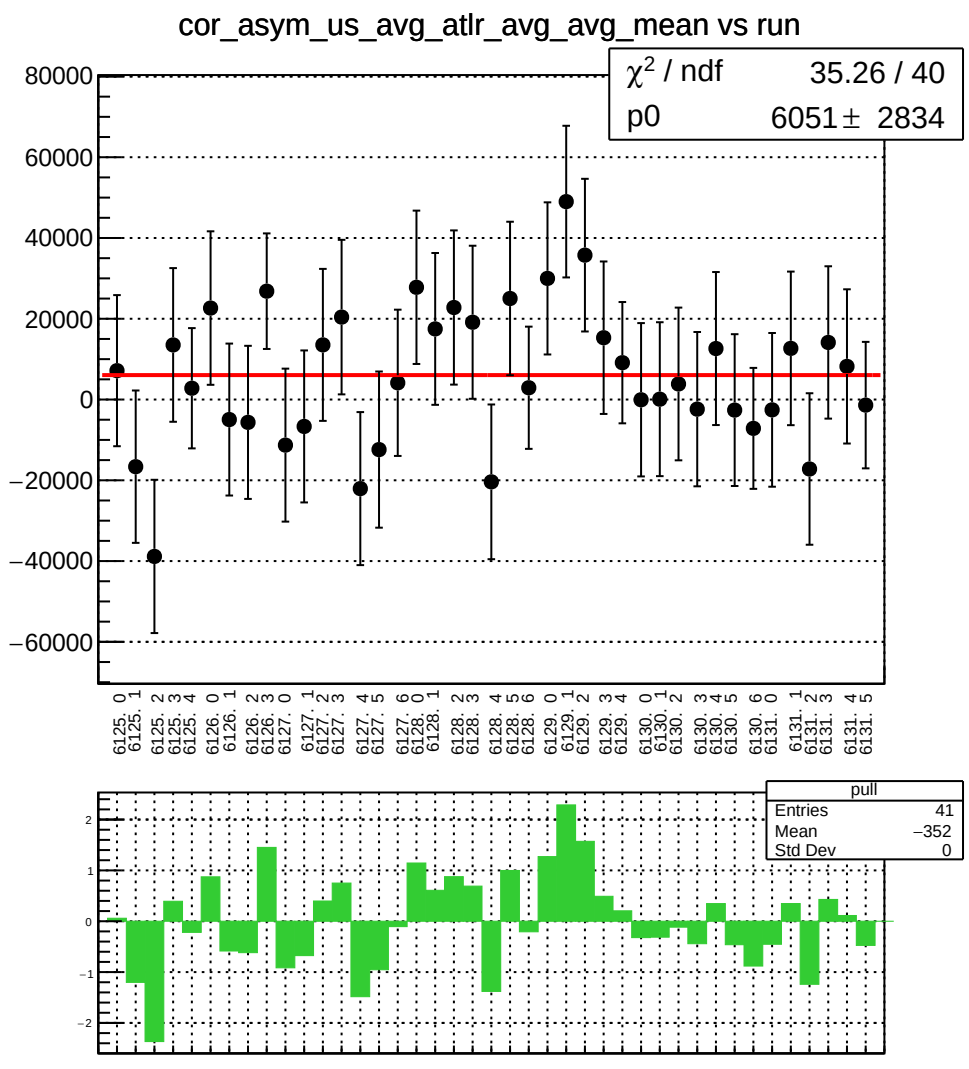

pull1D
Entries 41
Mean −0.002625
Std Dev 0.9273

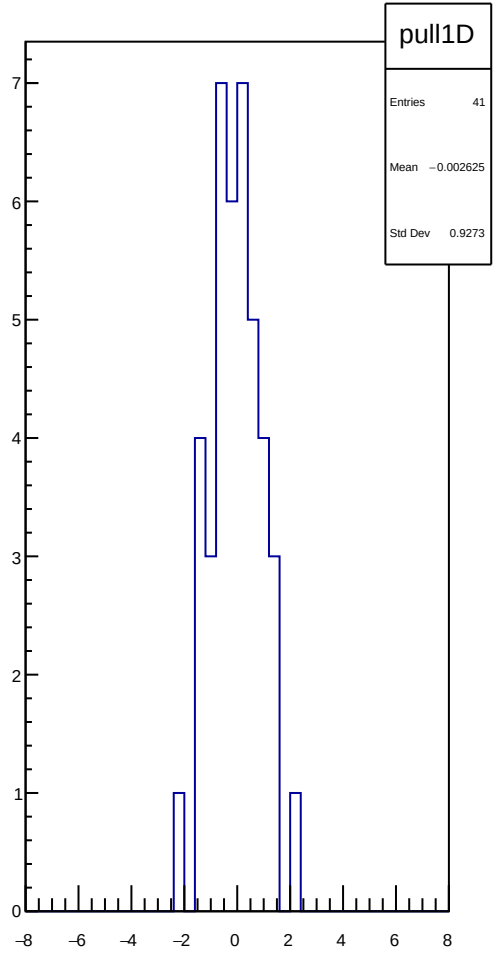

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 30.26 / 40
p0 1797 ± 2.004
1840
1820
1800
1780
1760
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

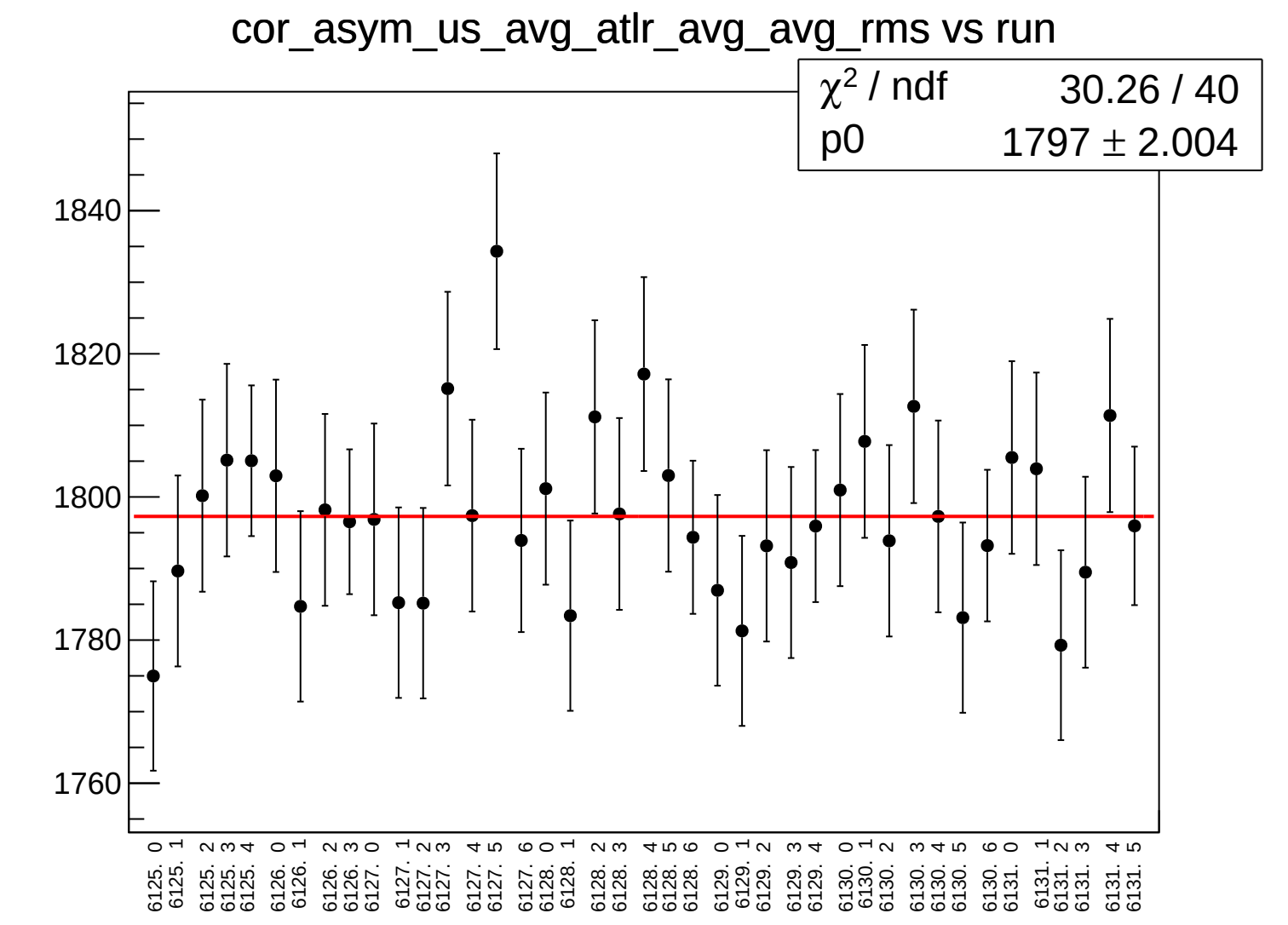

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 29.35 / 40
p0 1888 ± 7080
150
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 103.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

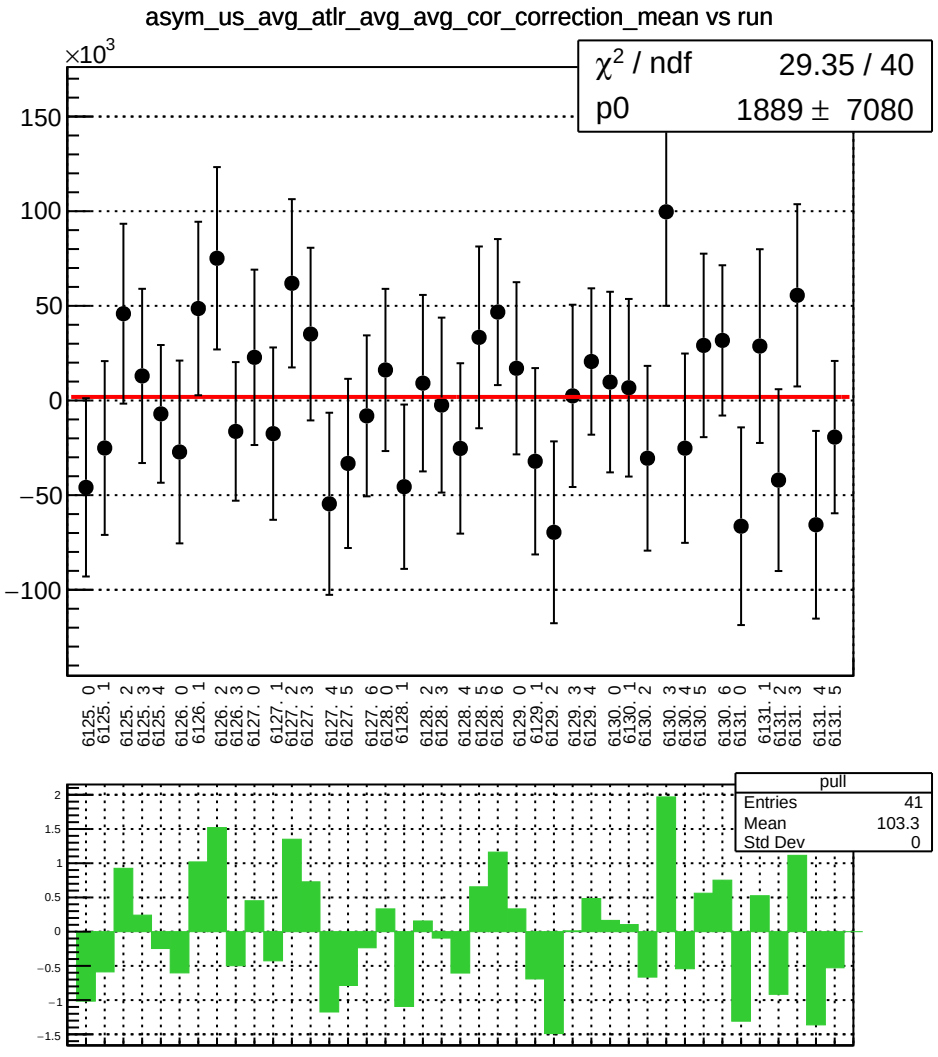

pull1D
Entries 41
Mean −0.007229
Std Dev 0.8461
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

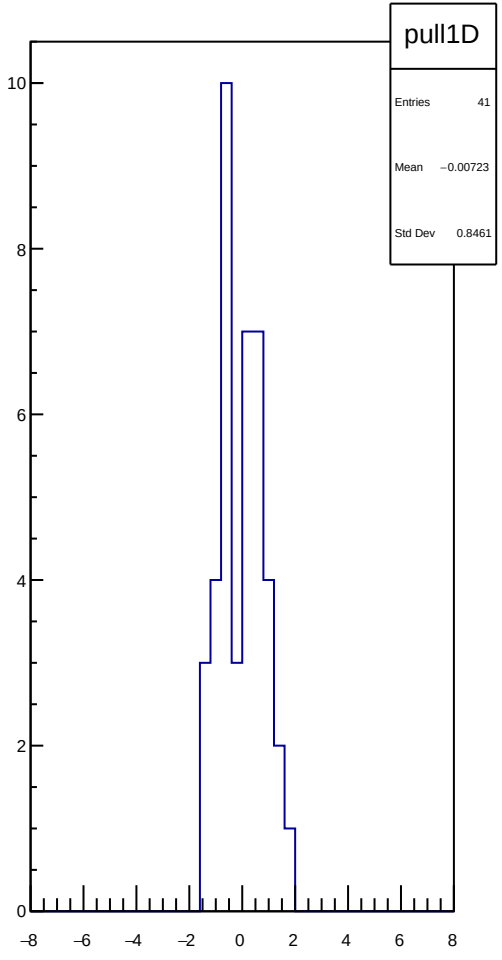

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 1423 / 40
p0 4485 ± 5.006
5000
4800
4600
4400
4200
4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

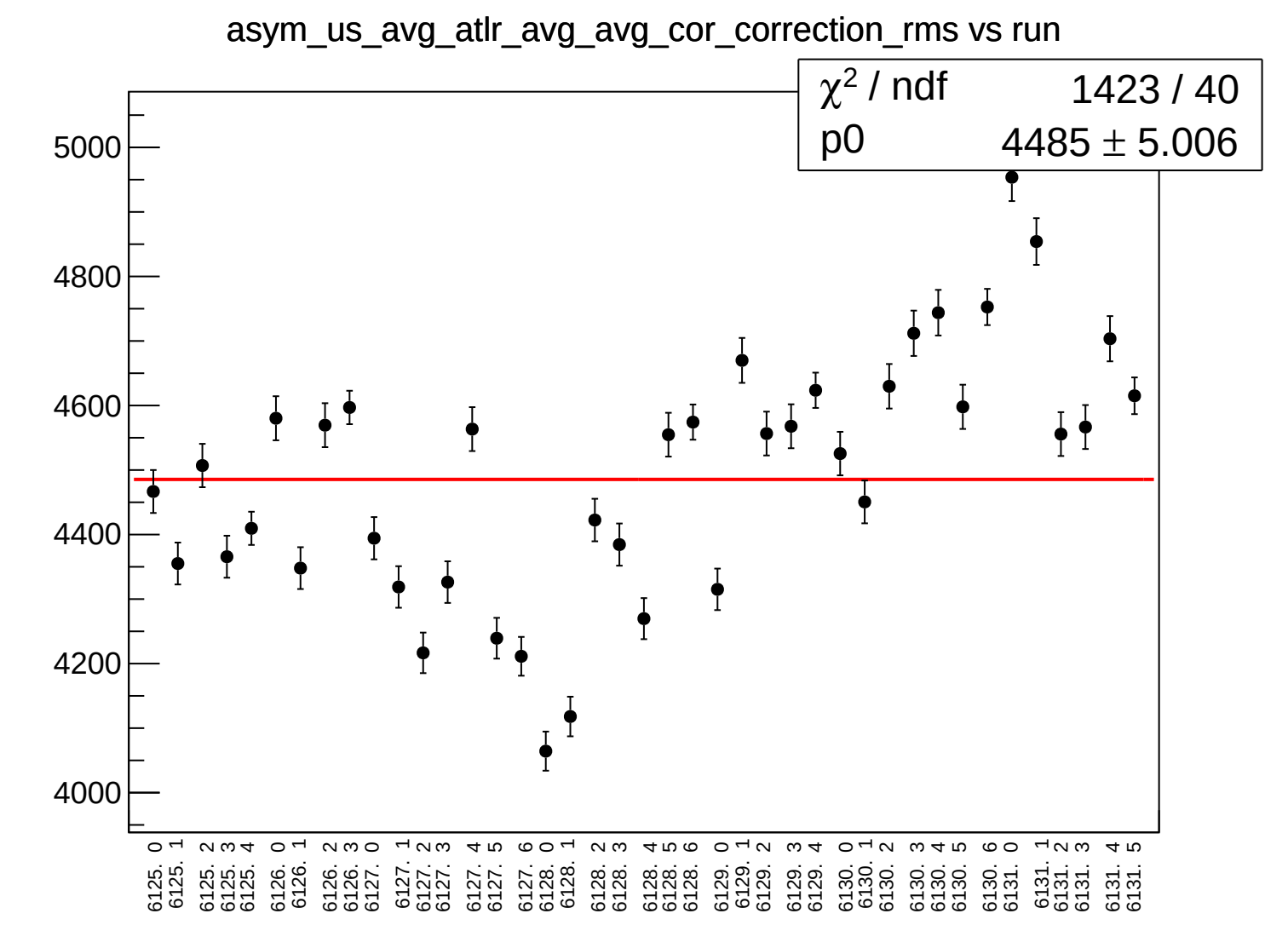

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 35.26 / 40
p0 6051 ± 2834
pull
Entries 41
Mean −352
Std Dev 0

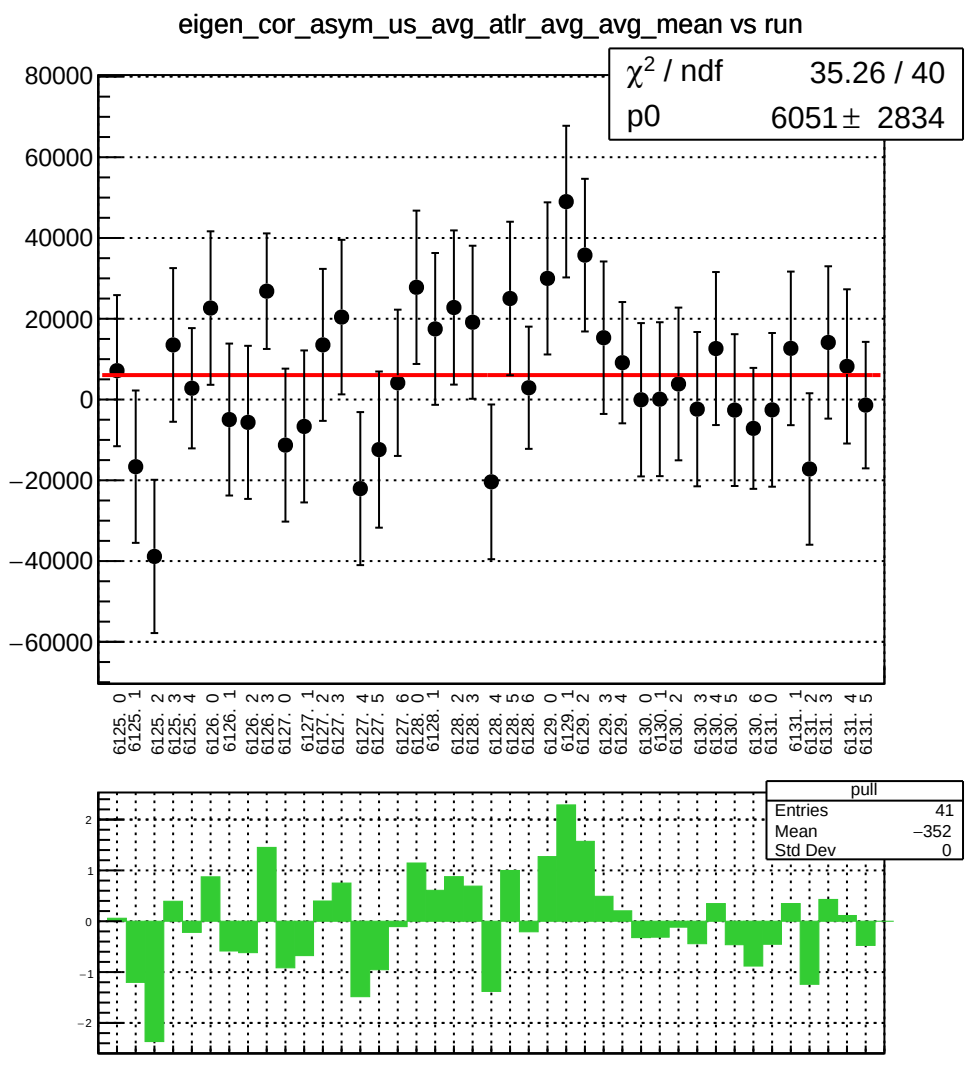

pull1D
Entries 41
Mean −0.002625
Std Dev 0.9273

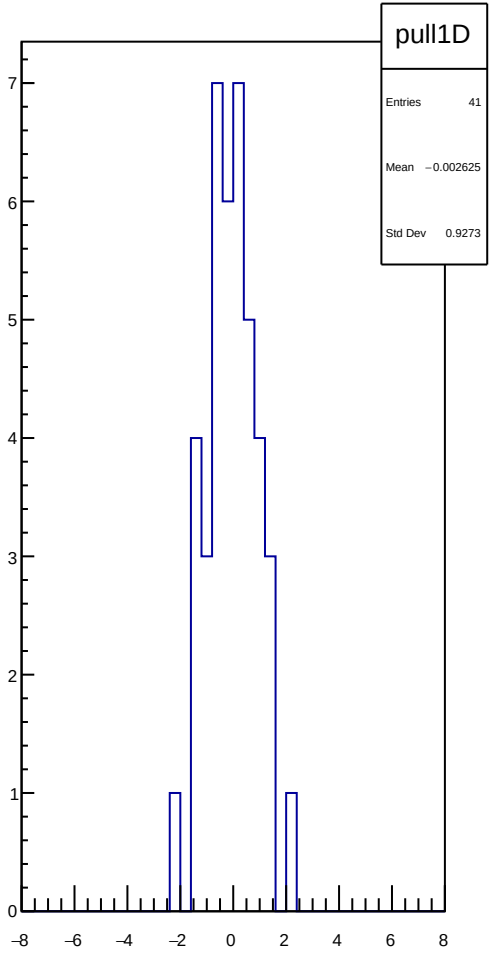

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 30.26 / 40
p0 1797 ± 2.004
1840
1820
1800
1780
1760
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

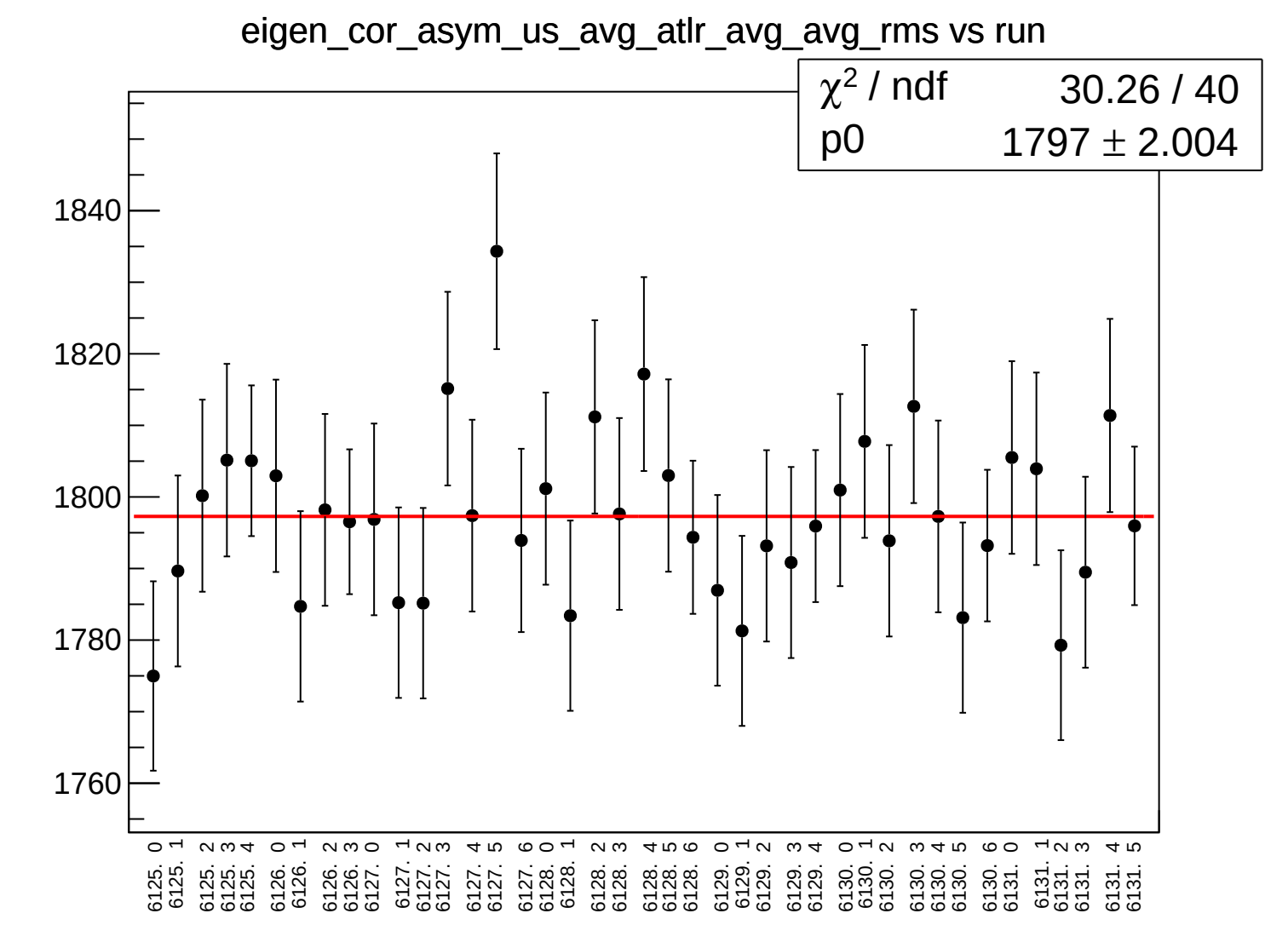

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 29.35 / 40
p0 1889 ± 7080
150
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 103.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

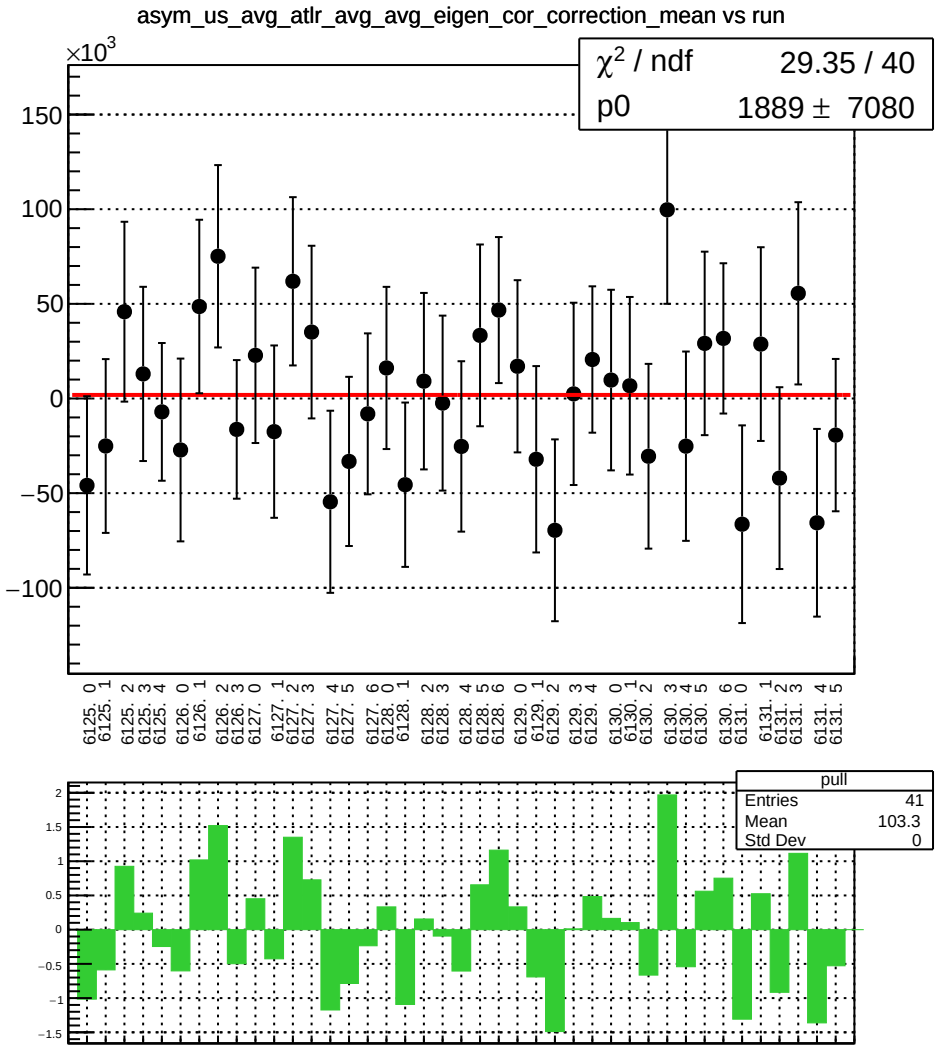

pull1D
Entries 41
Mean −0.00723
Std Dev 0.8461
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

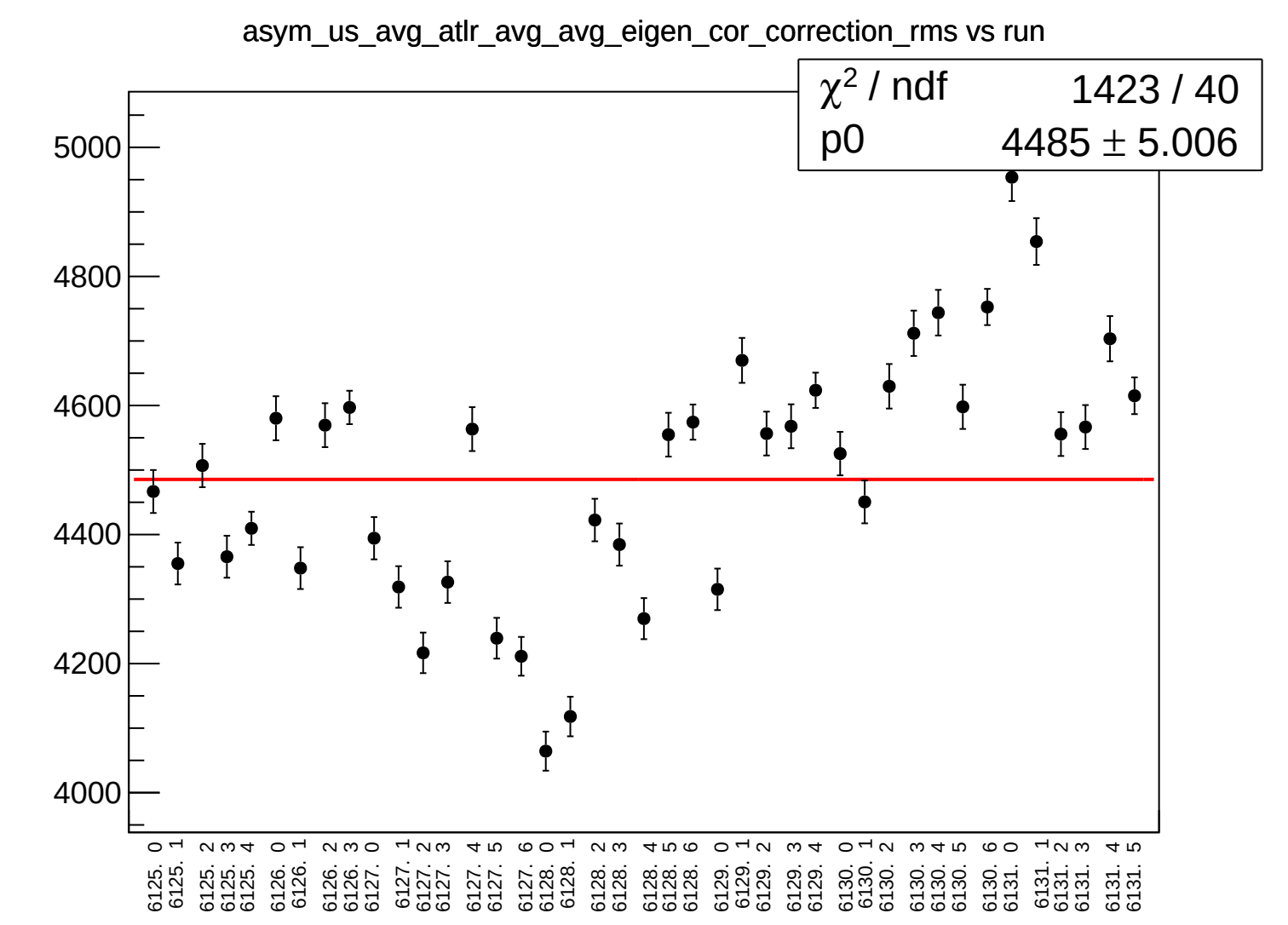

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 1423 / 40
p0 4485 ± 5.006
5000
4800
4600
4400
4200
4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

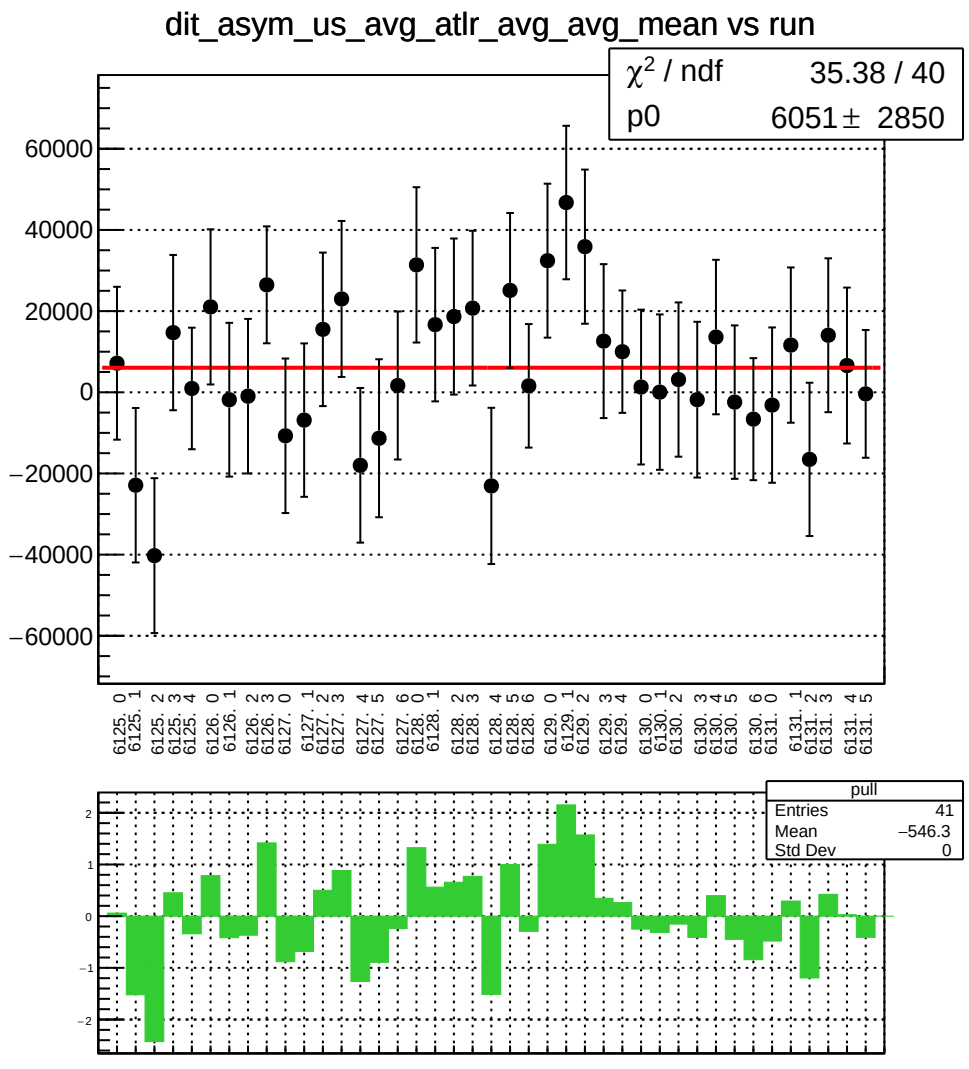

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 35.26 / 40
p0 6051 ± 2834
pull
Entries 41
Mean −352
Std Dev 0

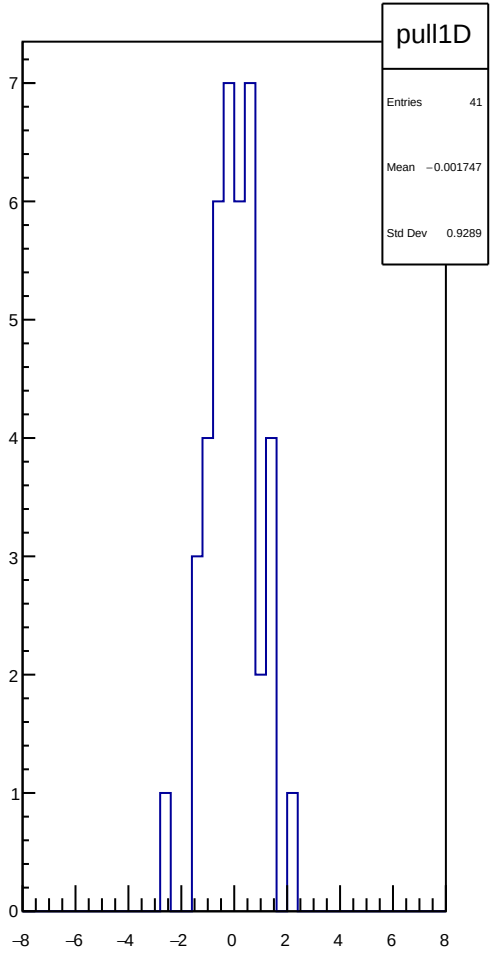

pull1D
Entries 41
Mean −0.002625
Std Dev 0.9273

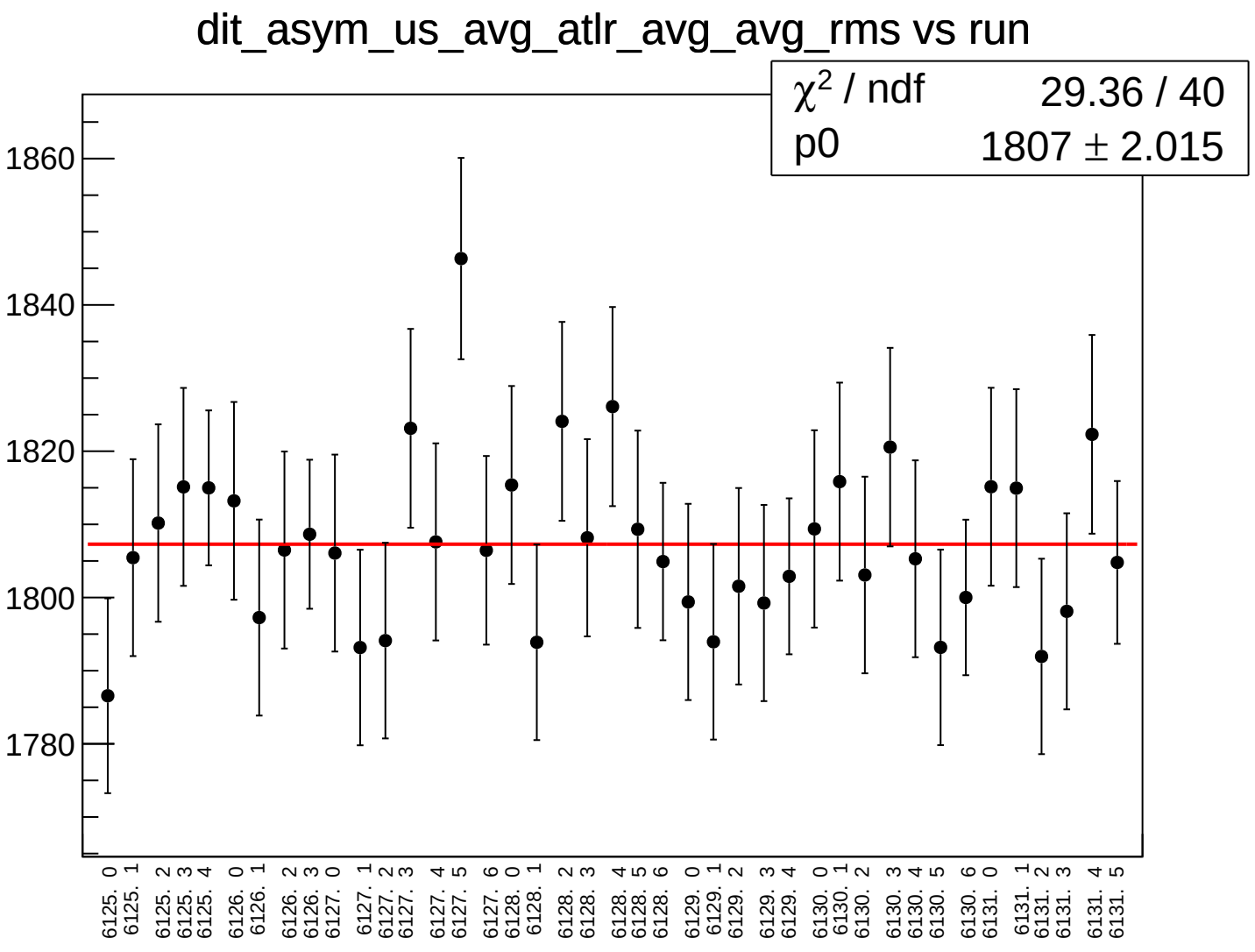

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 30.26 / 40
p0 1797 ± 2.004
1840
1820
1800
1780
1760
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

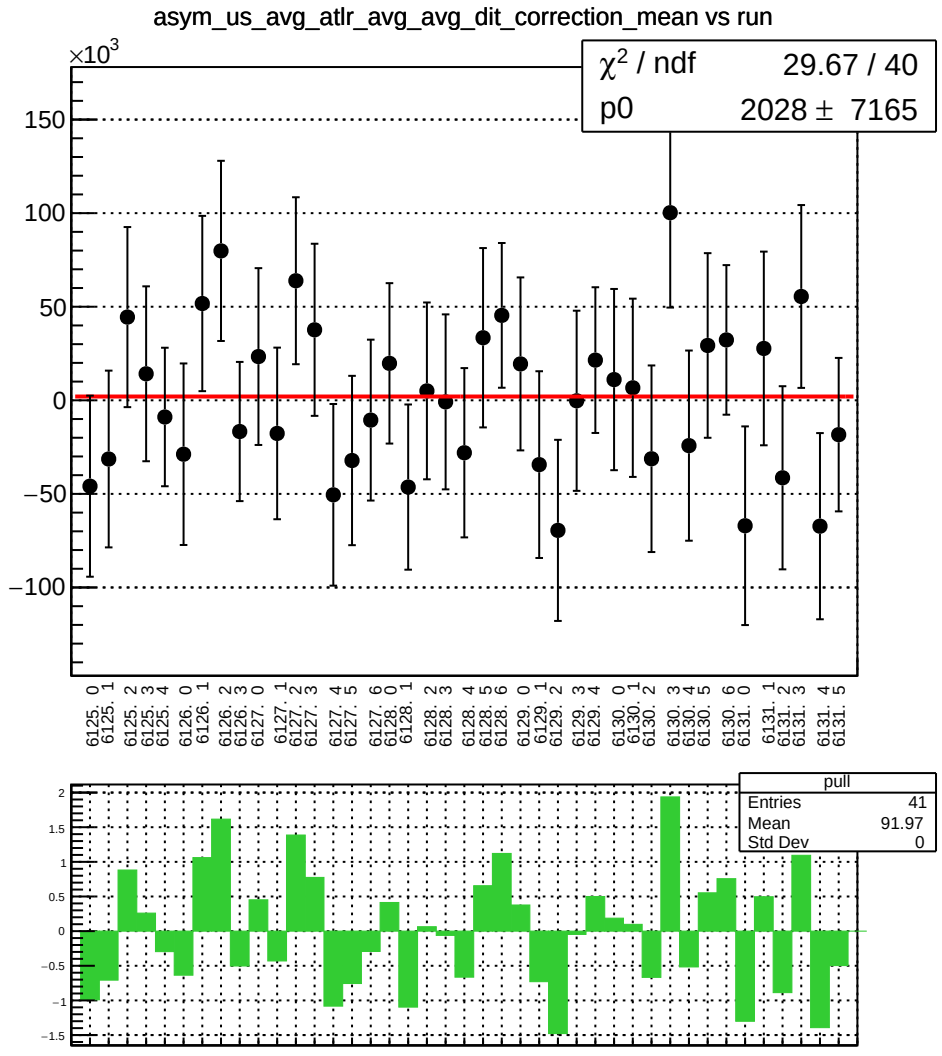

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 29.35 / 40
p0 1889 ± 7080
150
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 103.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.00723
Std Dev 0.8461
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

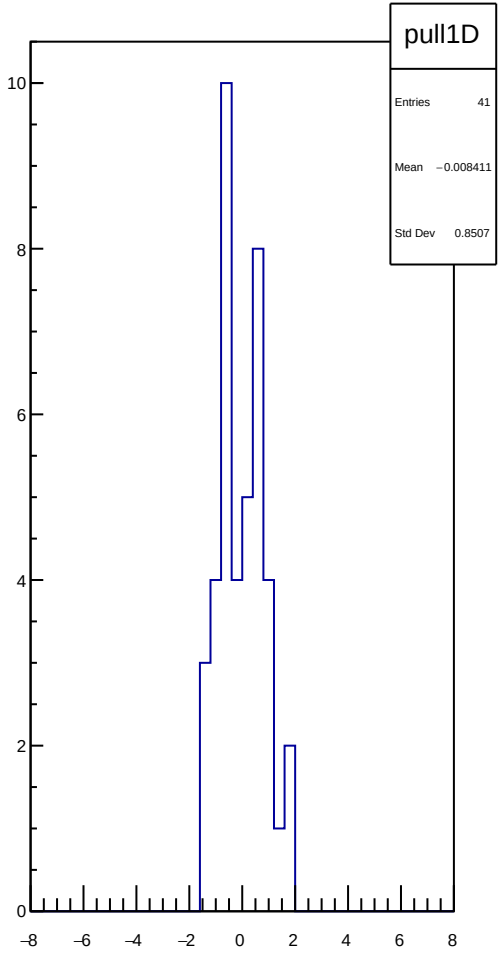

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1423 / 40
p0 4485 ± 5.006
5000
4800
4600
4400
4200
4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

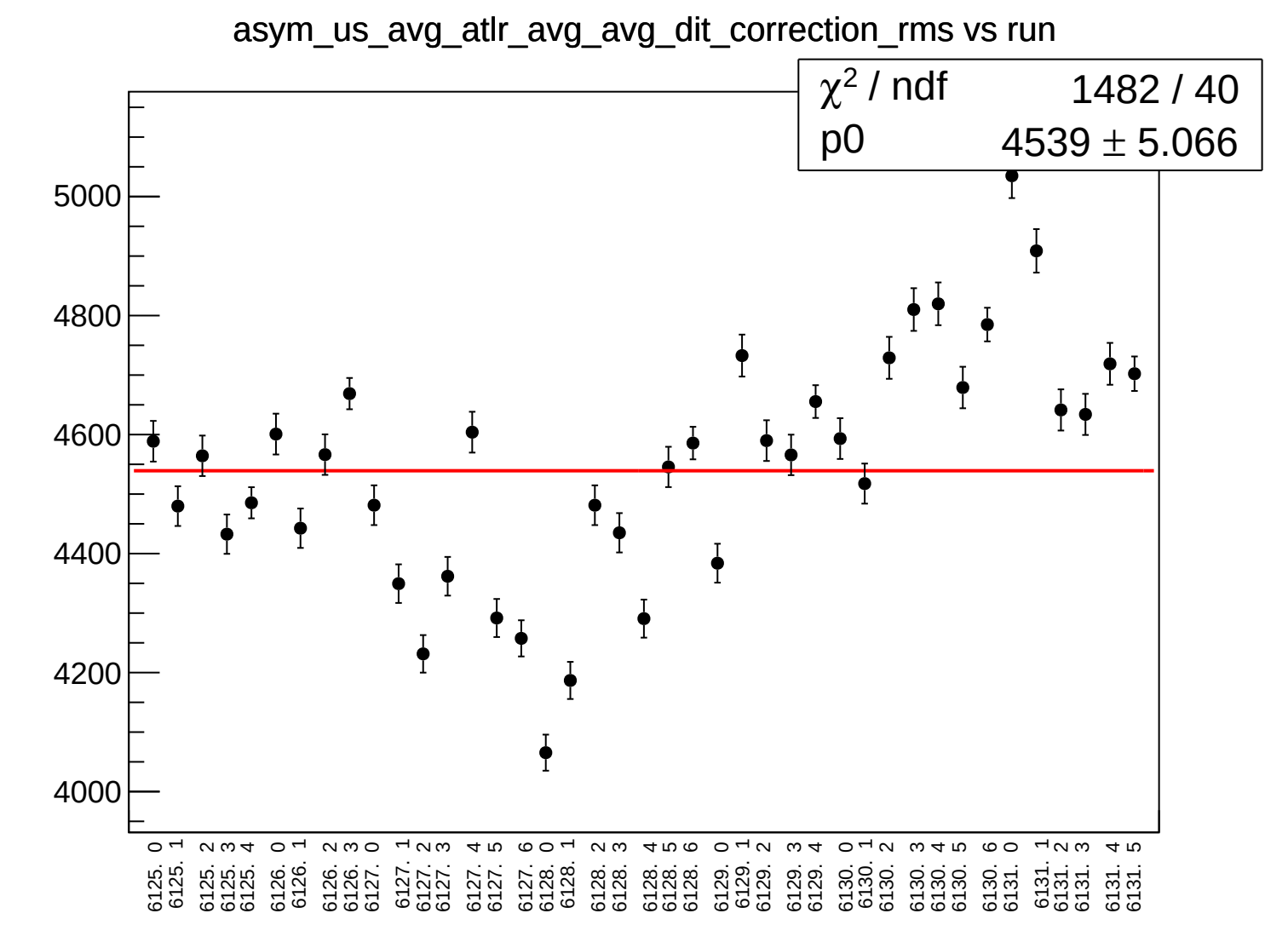

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 35.38 / 40
p0 6051 ± 2850
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −546.3
Std Dev 0
2
1
0
−1
−2

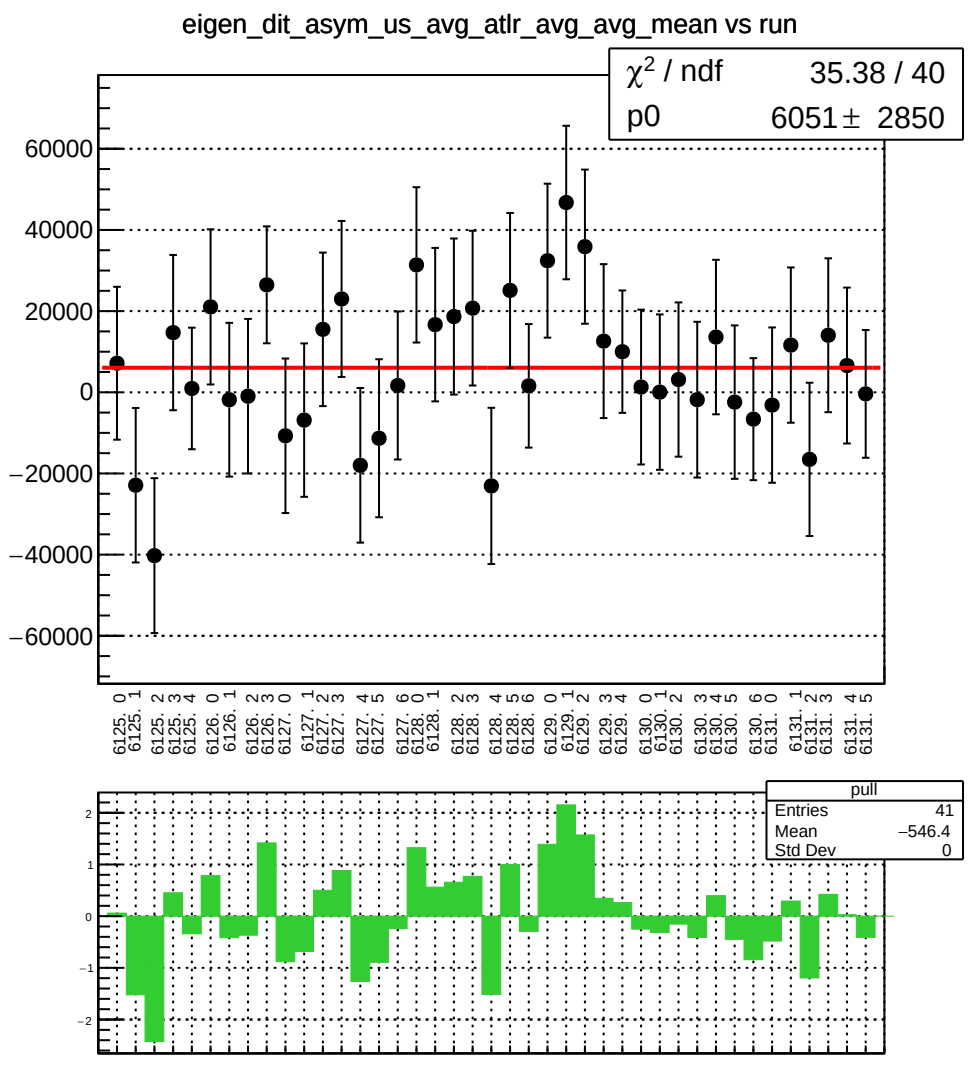

pull1D
Entries 41
Mean −0.001747
Std Dev 0.9289
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

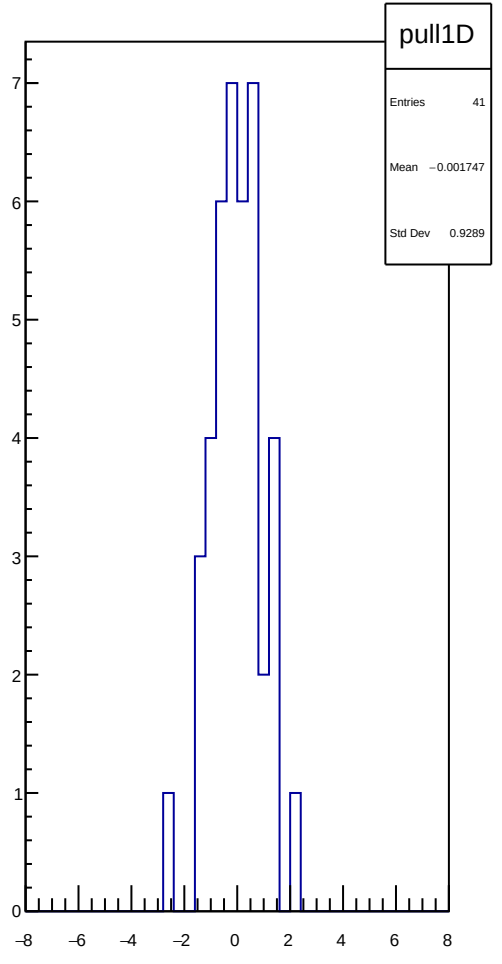

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 29.36 / 40
p0 1807 ± 2.015
1860
1840
1820
1800
1780
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

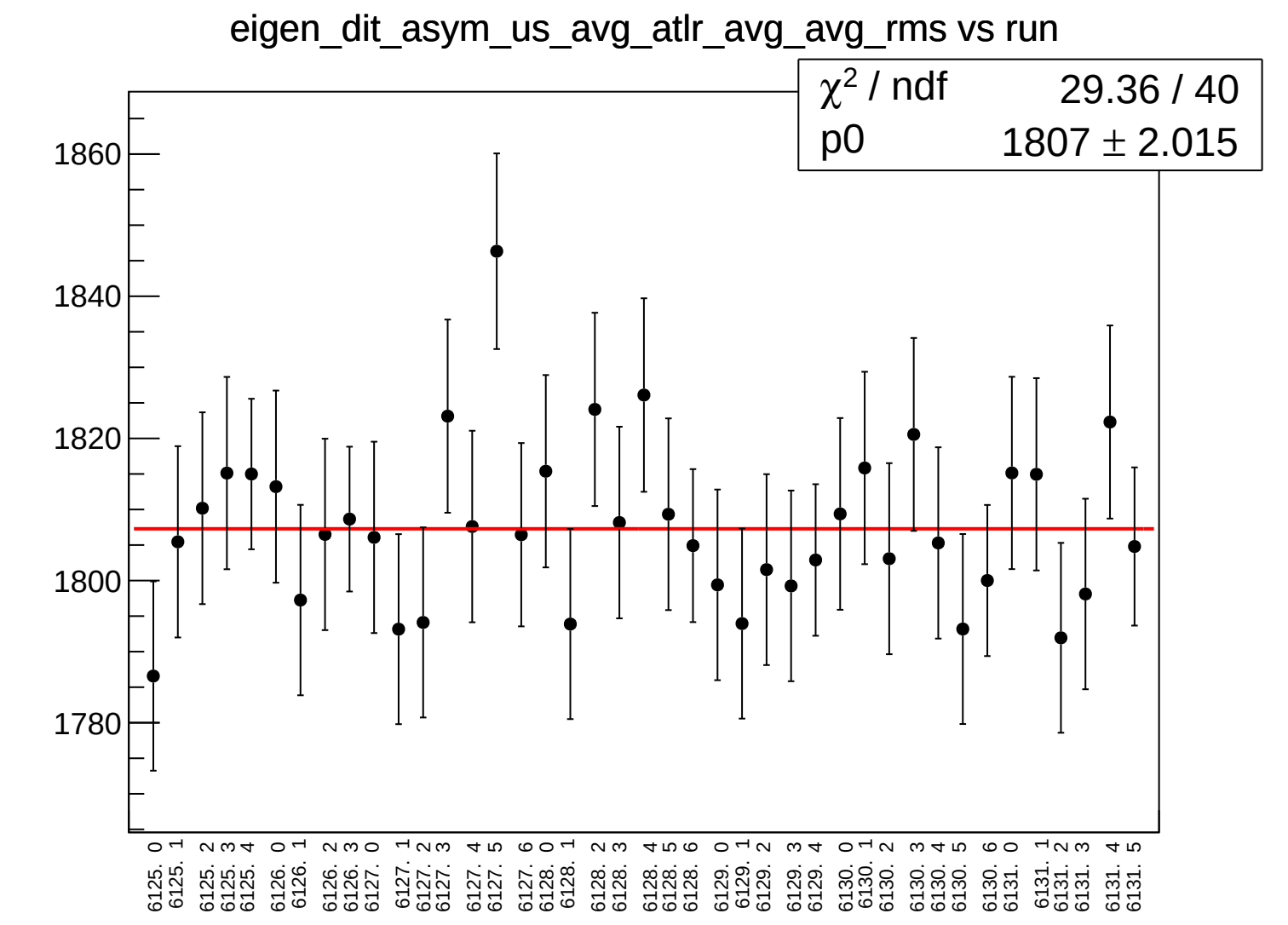

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 29.67 / 40
p0 2028 ± 7165
150
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 91.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

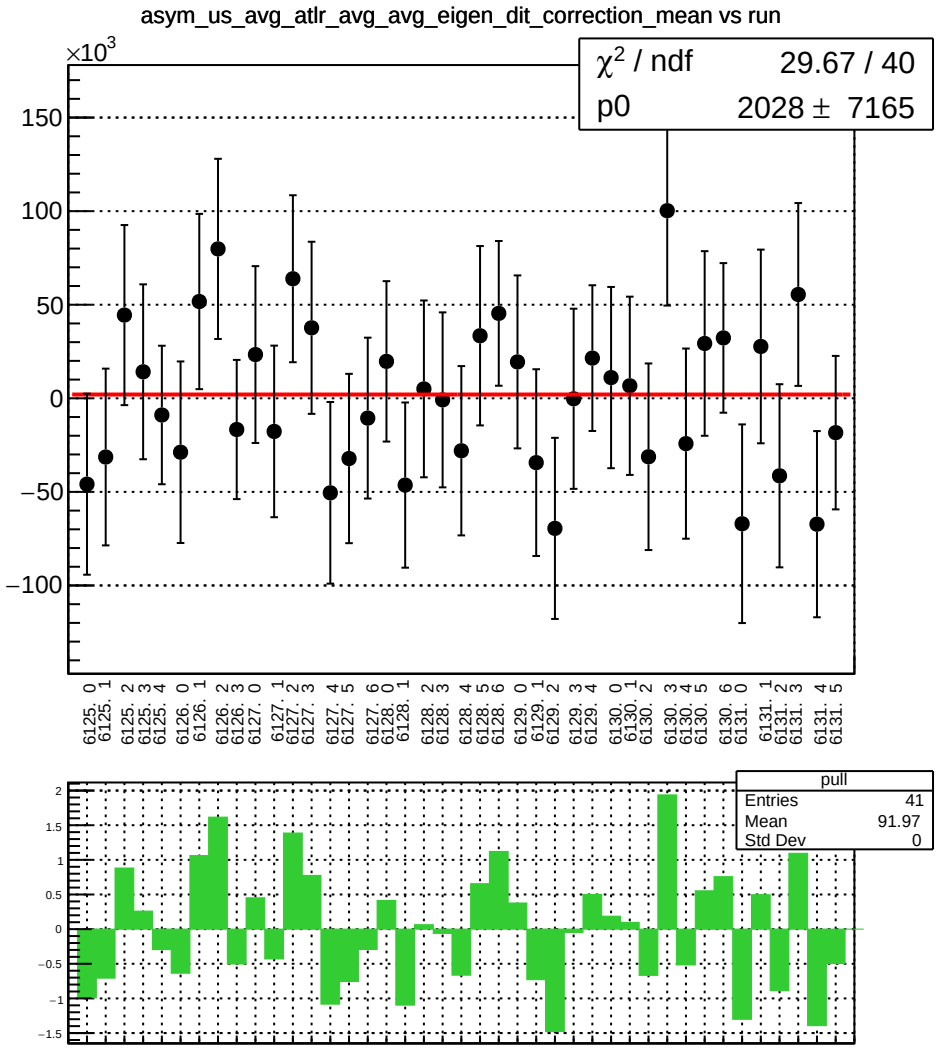

pull1D
Entries 41
Mean −0.008411
Std Dev 0.8507
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

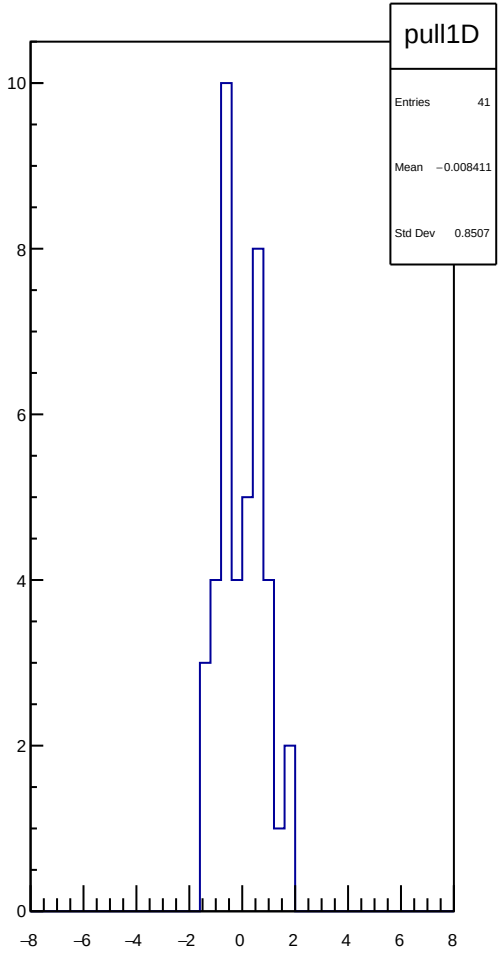

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 1482 / 40
p0 4539 ± 5.066
5000
4800
4600
4400
4200
4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

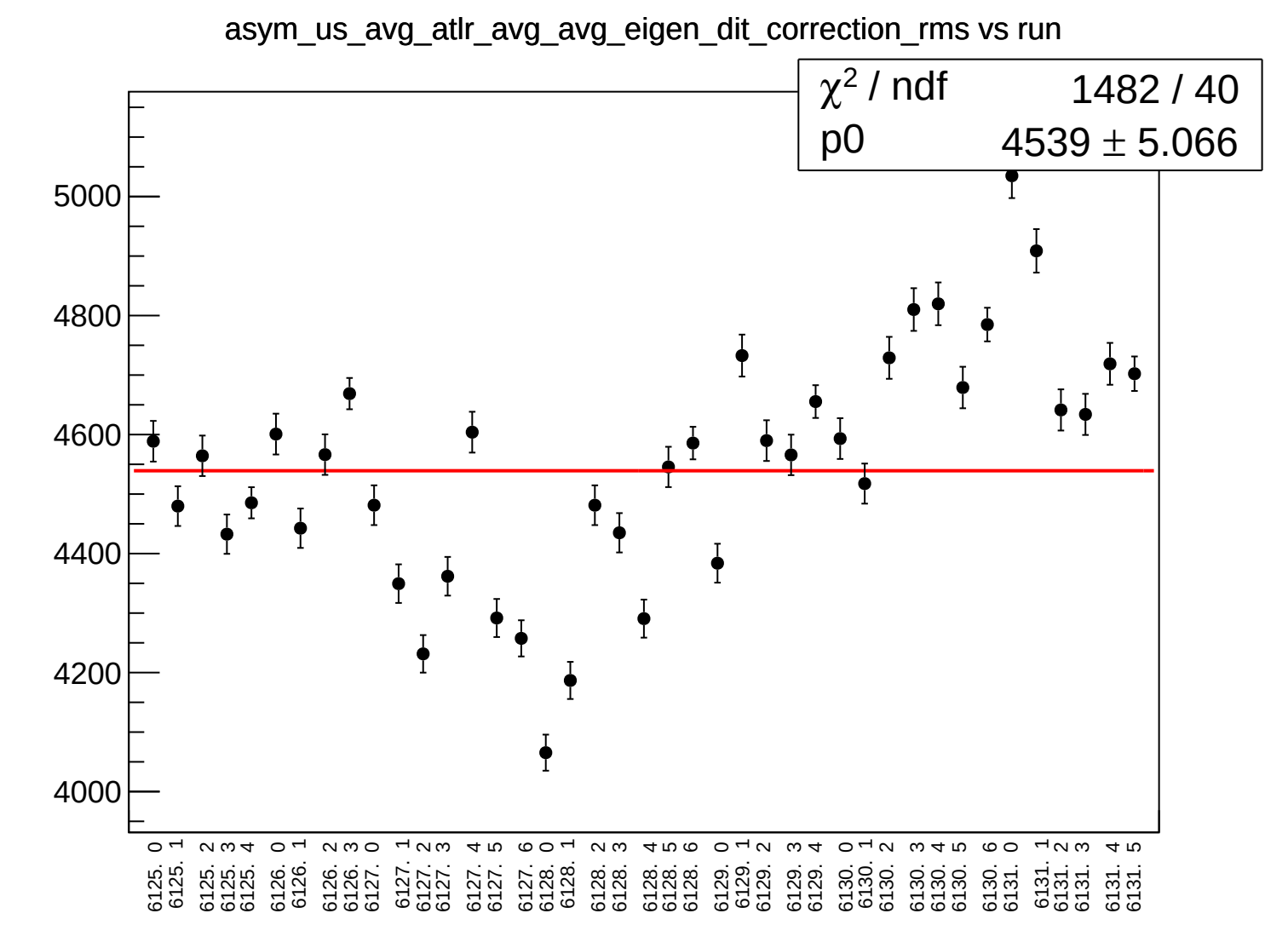

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 35.38 / 40
p0 6051 ± 2850
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −546.4
Std Dev 0
2
1
0
−1
−2

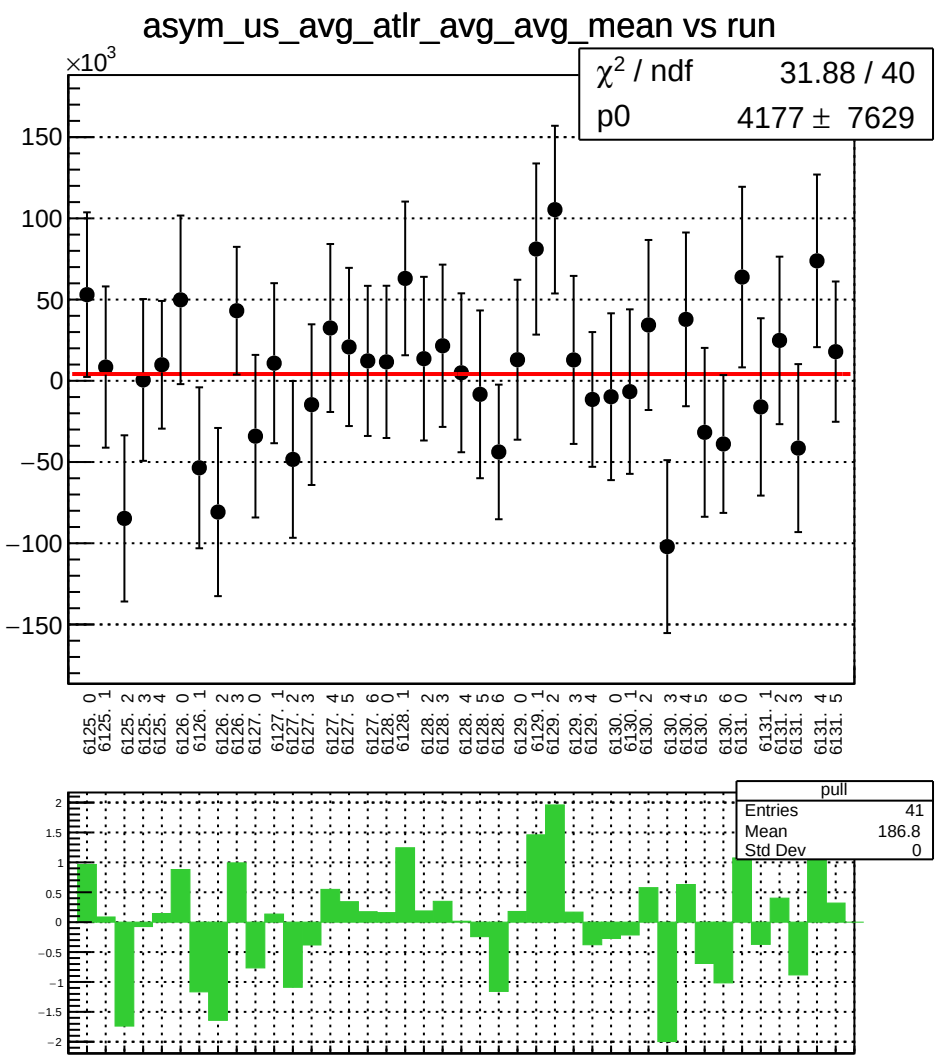

pull1D
Entries 41
Mean −0.001747
Std Dev 0.9289
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

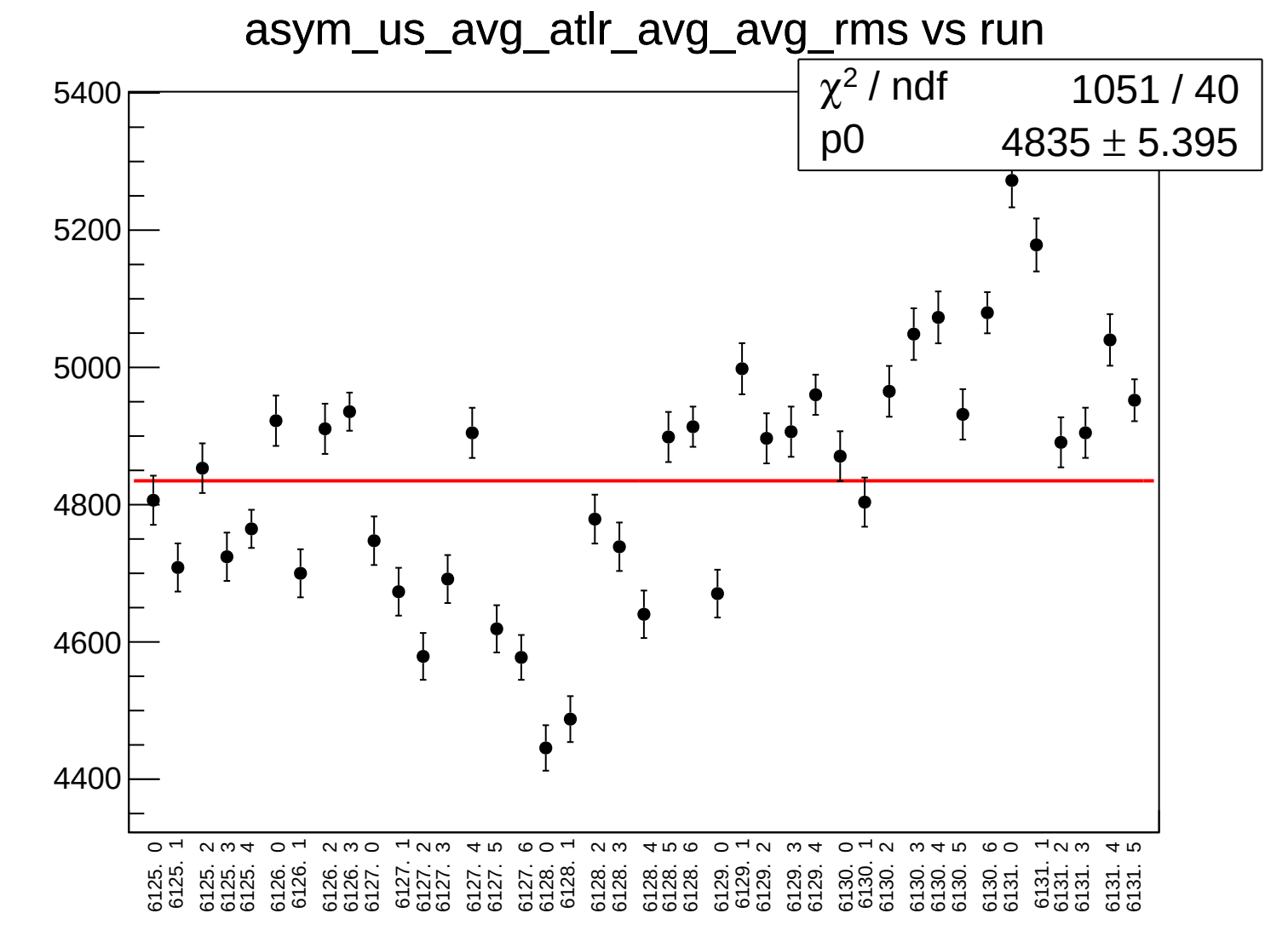

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 29.36 / 40
p0 1807 ± 2.015
1860
1840
1820
1800
1780
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

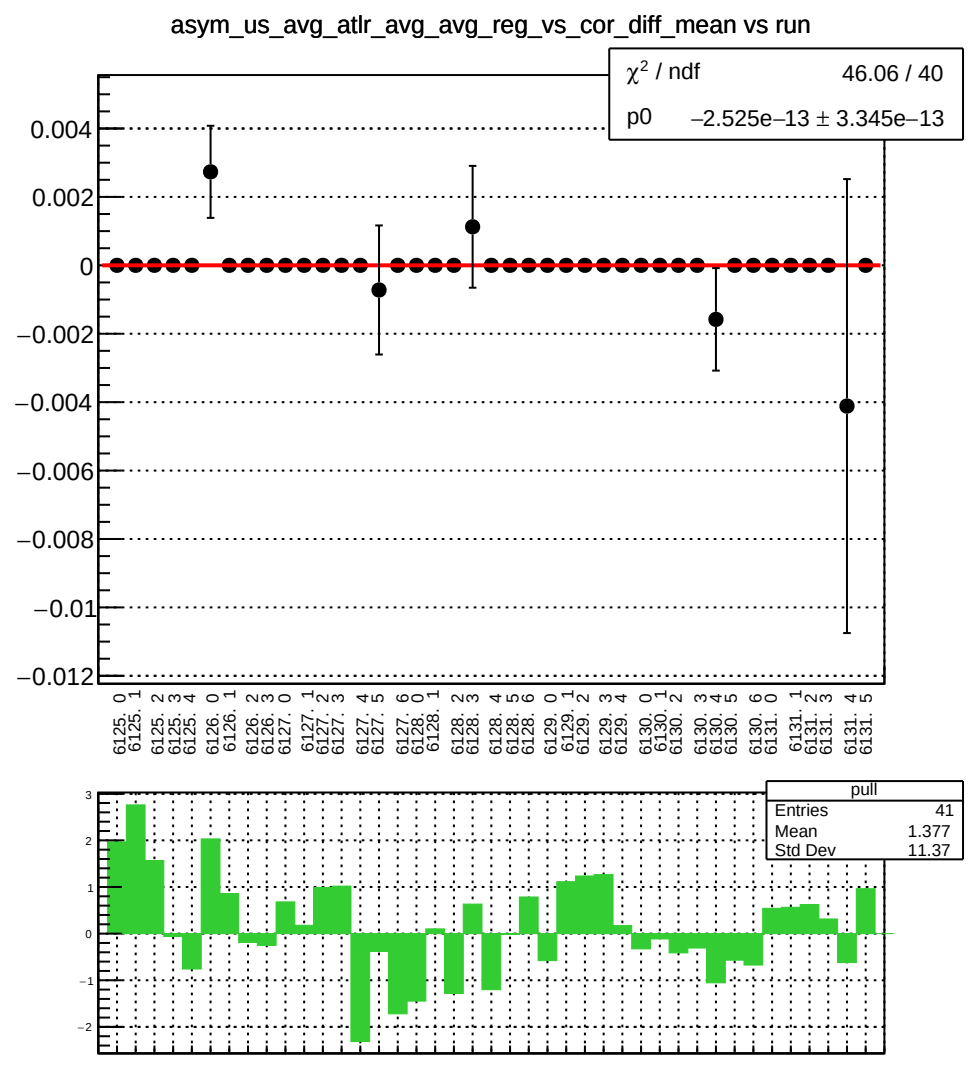

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 29.67 / 40
p0 2028 ± 7165
150
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 91.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

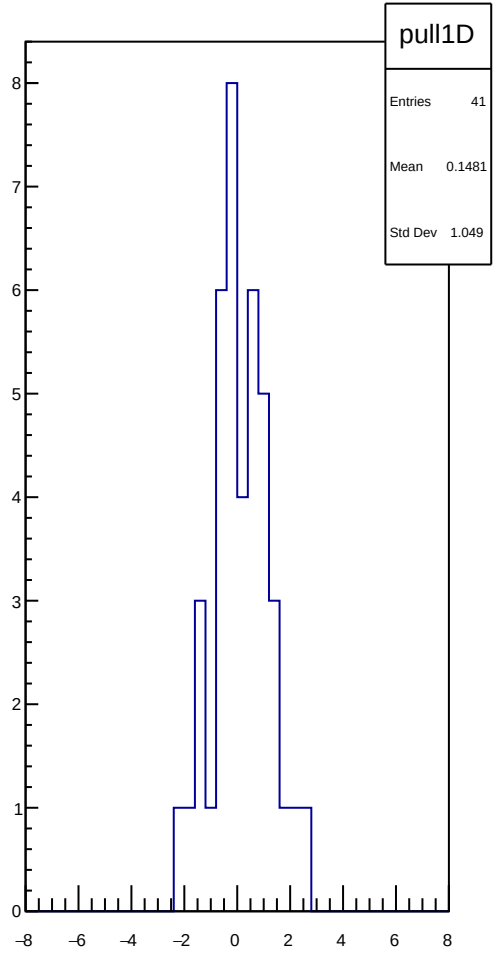

pull1D
Entries 41
Mean −0.008411
Std Dev 0.8507
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

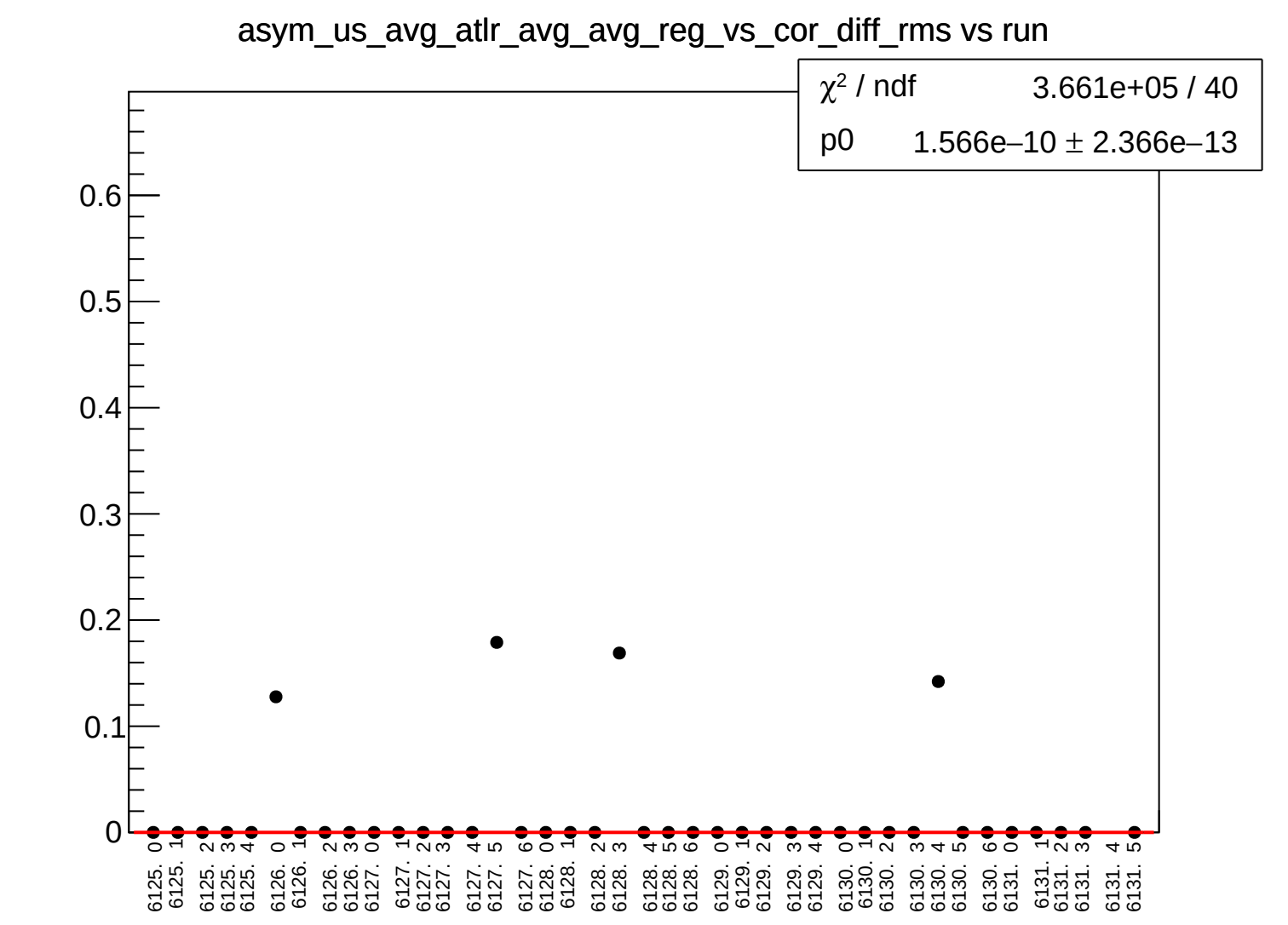

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1482 / 40
p0 4539 ± 5.066
5000
4800
4600
4400
4200
4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

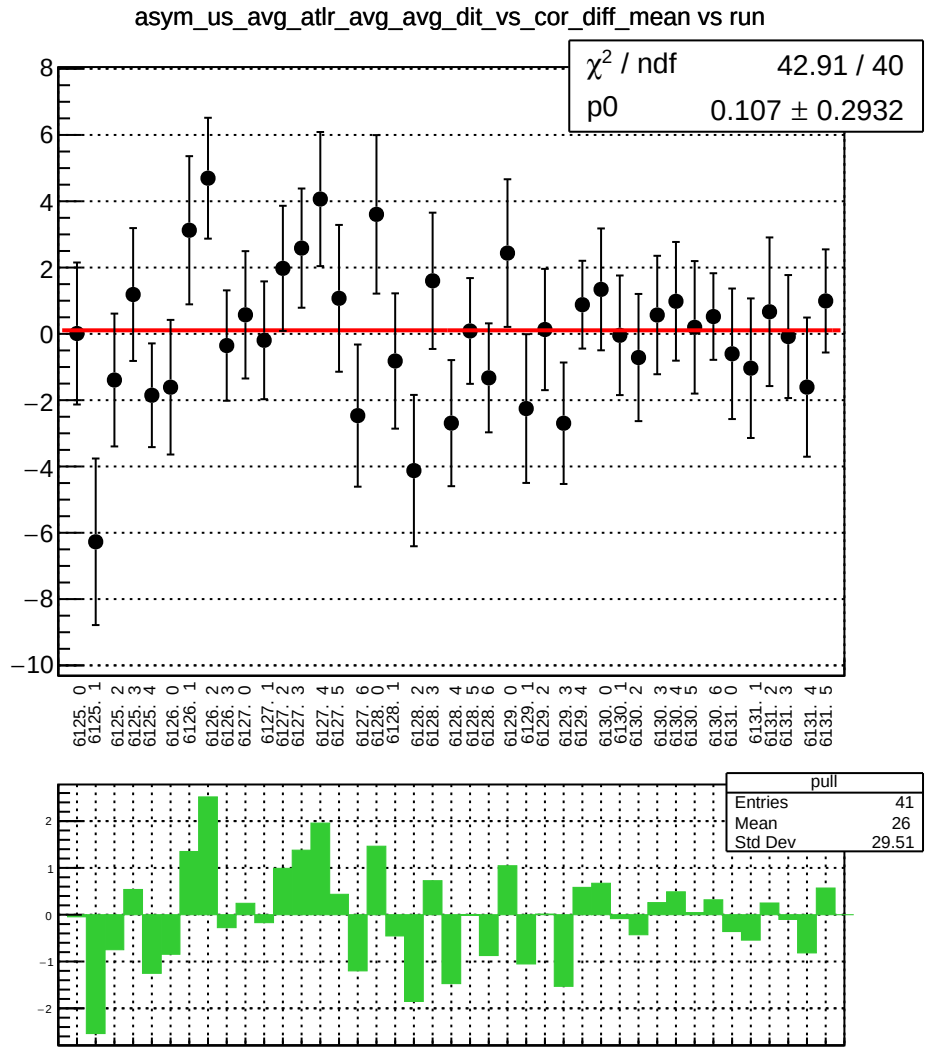

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ^2 / ndf 31.88 / 40
p0 4177 ± 7629
150
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 186.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.005623
Std Dev 0.8817
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

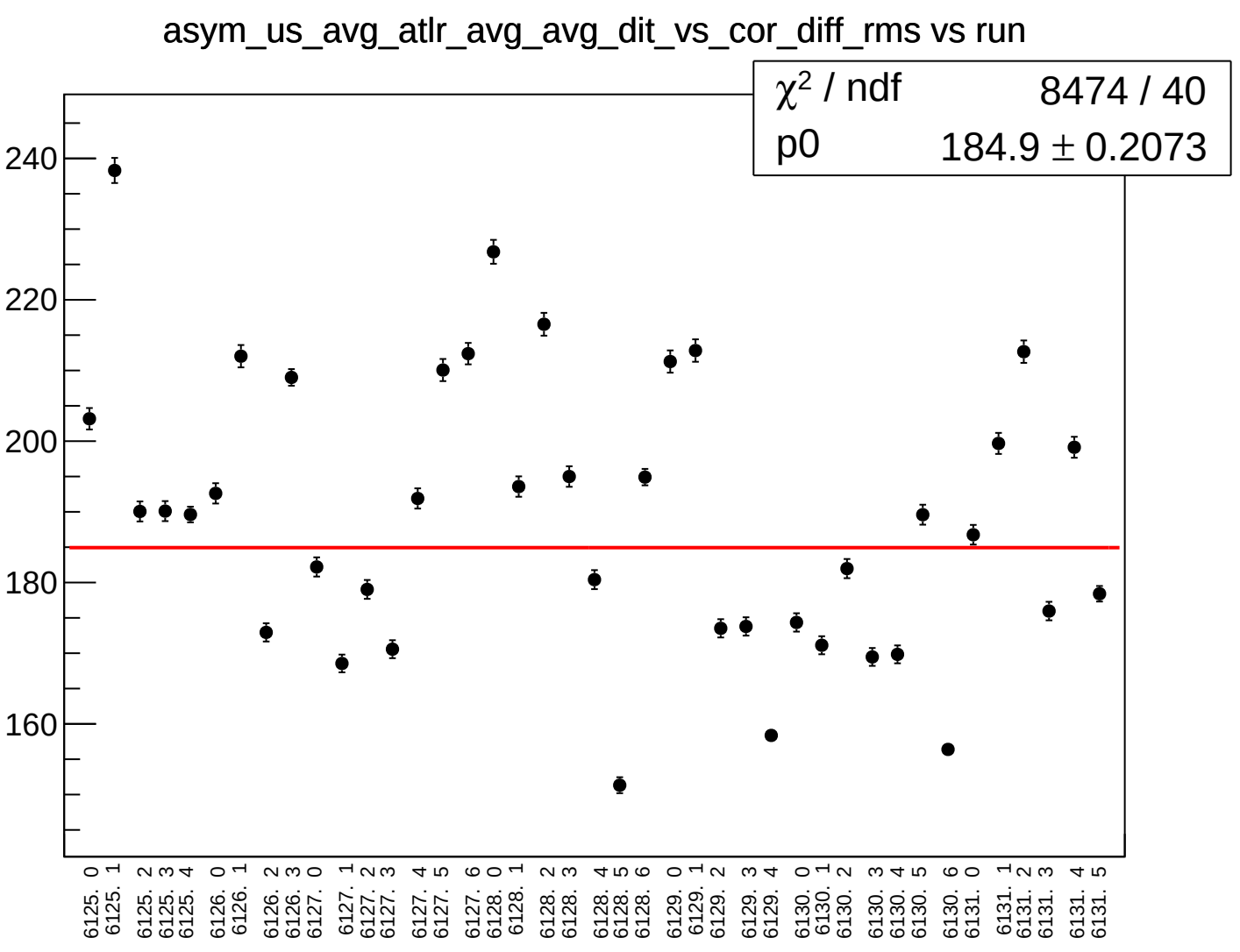

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 1051 / 40
p0 4835 ± 5.395
5400
5200
5000
4800
4600
4400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

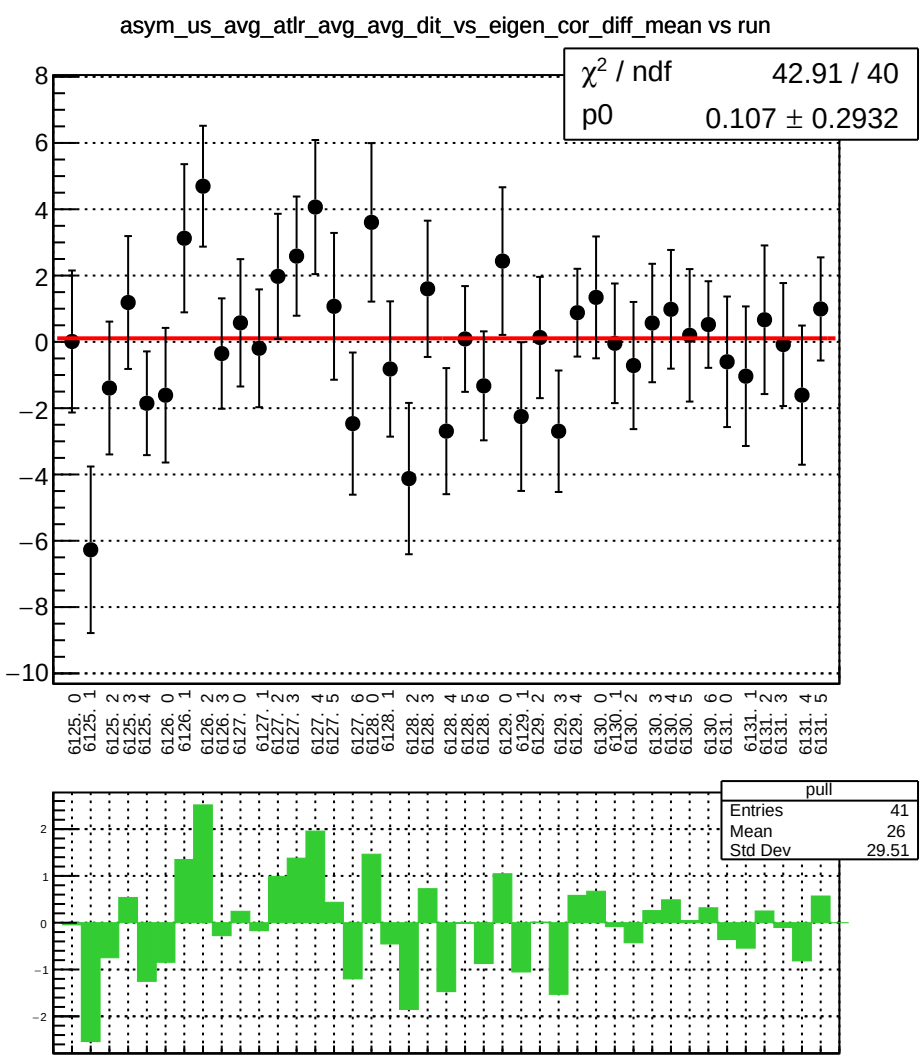

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 46.06 / 40
p0 −2.525e−13 ± 3.345e−13
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
−0.012
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1.377
Std Dev 11.37
3
2
1
0
−1
−2

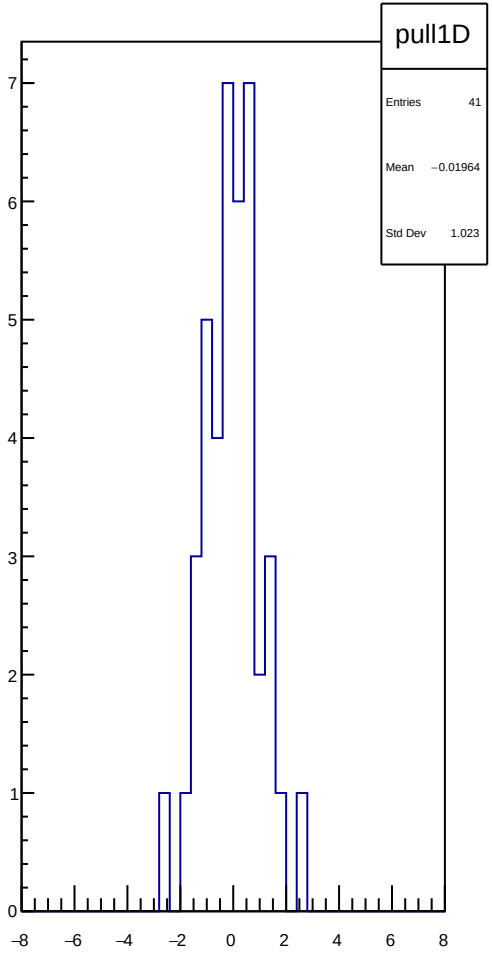

pull1D
Entries 41
Mean 0.1481
Std Dev 1.049
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

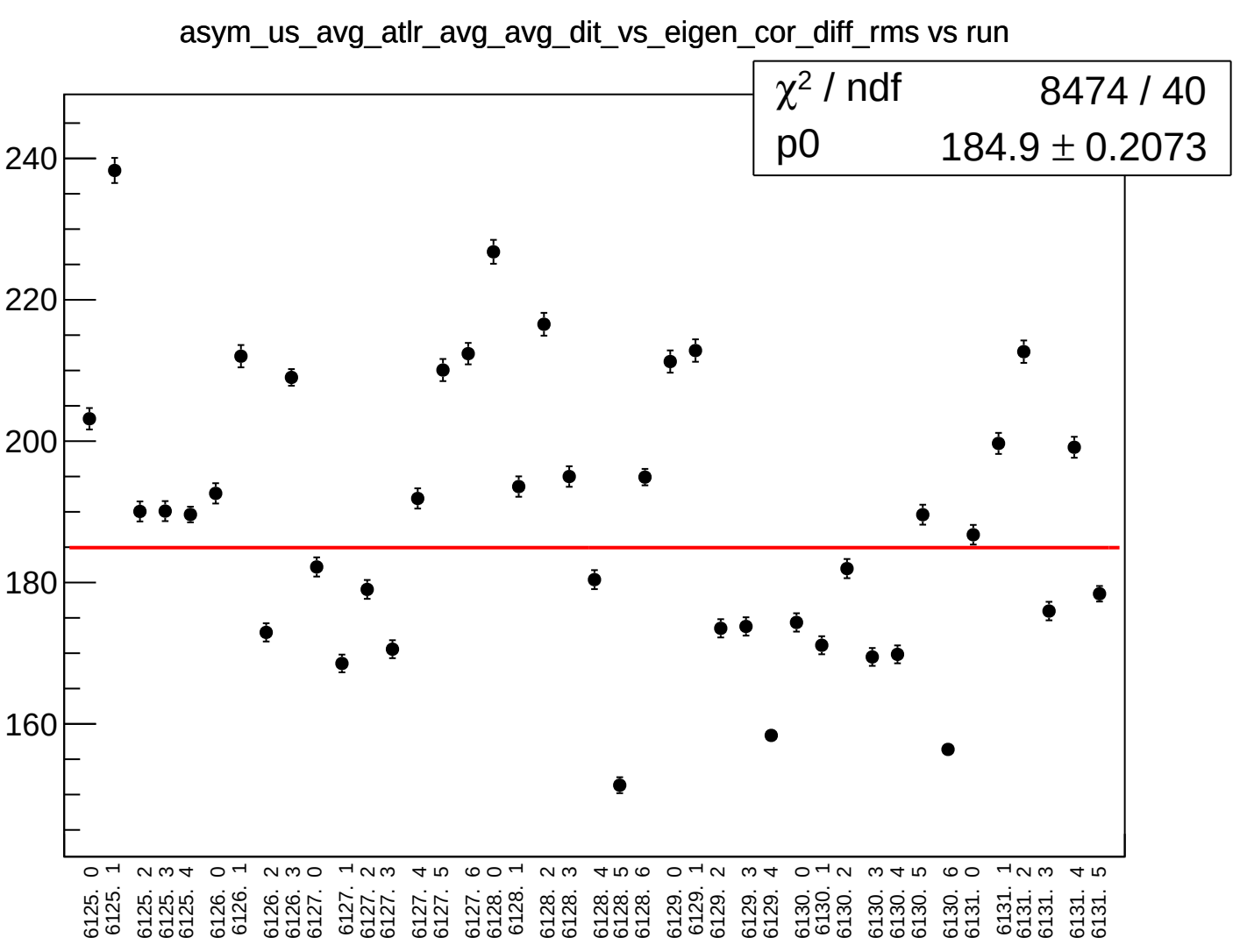

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.661e+05 / 40
p0 1.566e−10 ± 2.366e−13
0.6
0.5
0.4
0.3
0.2
0.1
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

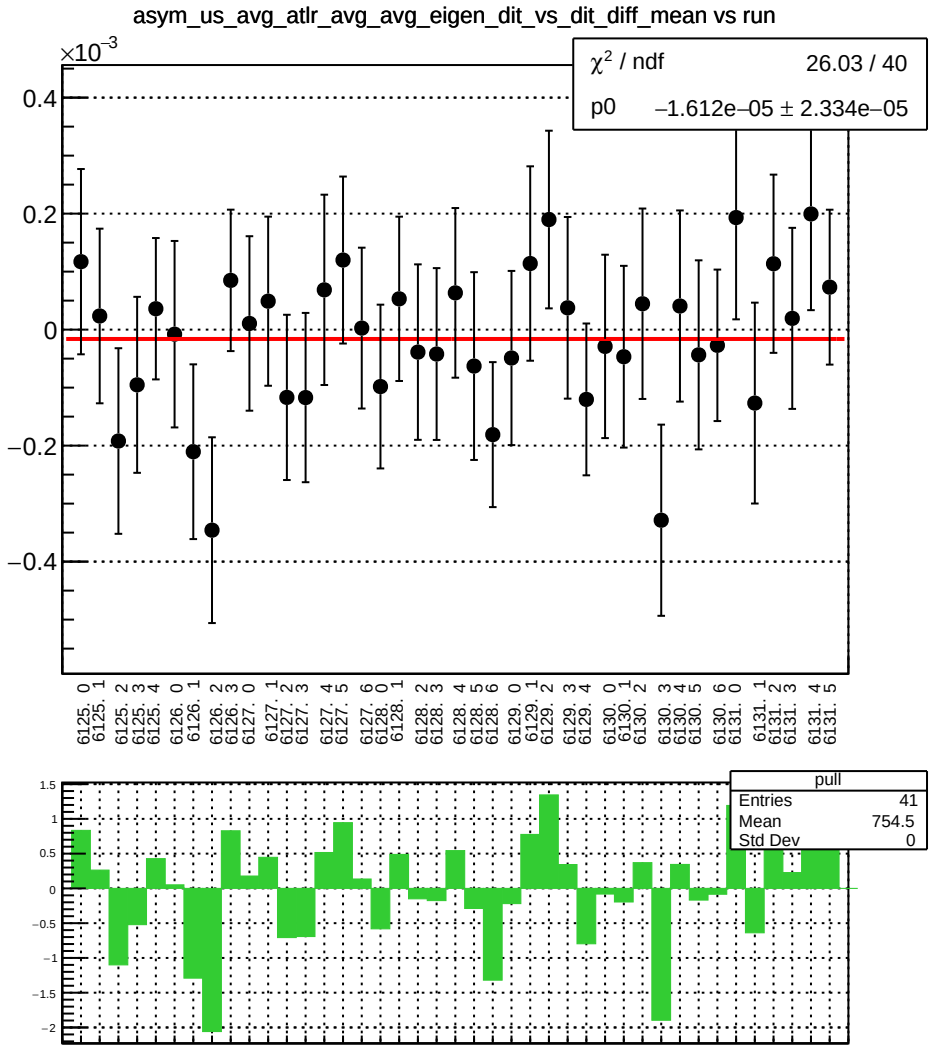

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 42.91 / 40
p0 0.107 ± 0.2932
pull
Entries 41
Mean 26
Std Dev 29.51
pull1D
Entries 41
Mean −0.01964
Std Dev 1.023

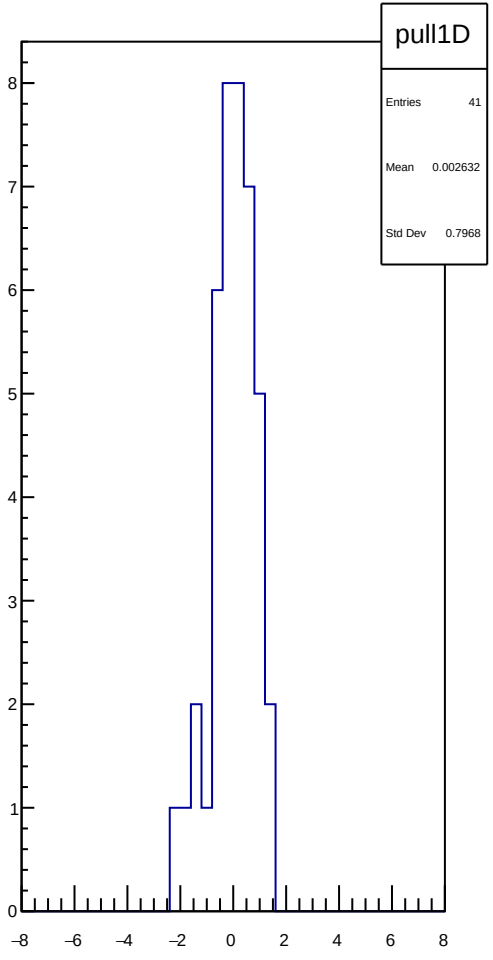

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8474 / 40
p0 184.9 ± 0.2073
240
220
200
180
160
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

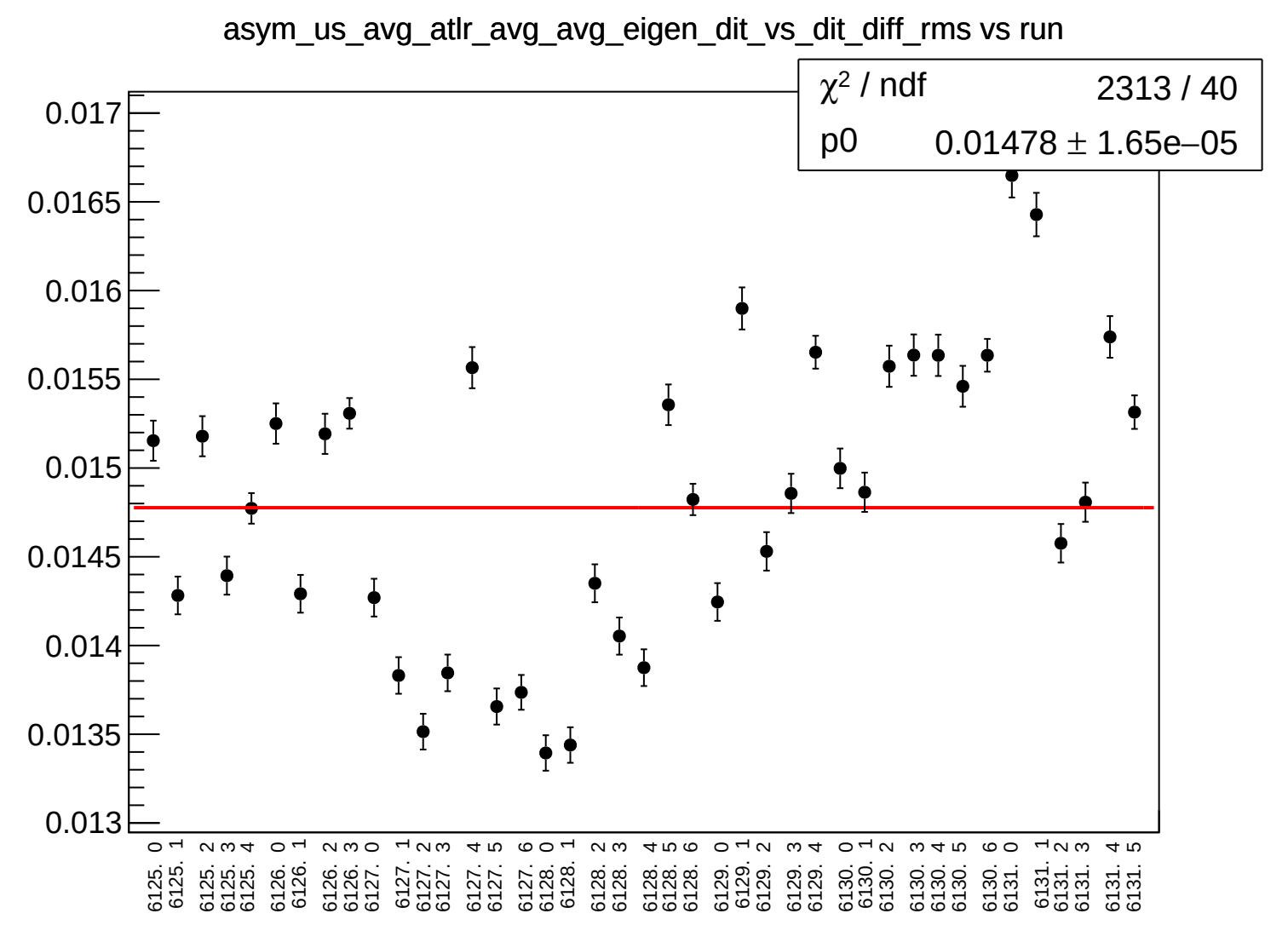

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.91 / 40
p0 0.107 ± 0.2932
pull
Entries 41
Mean 26
Std Dev 29.51

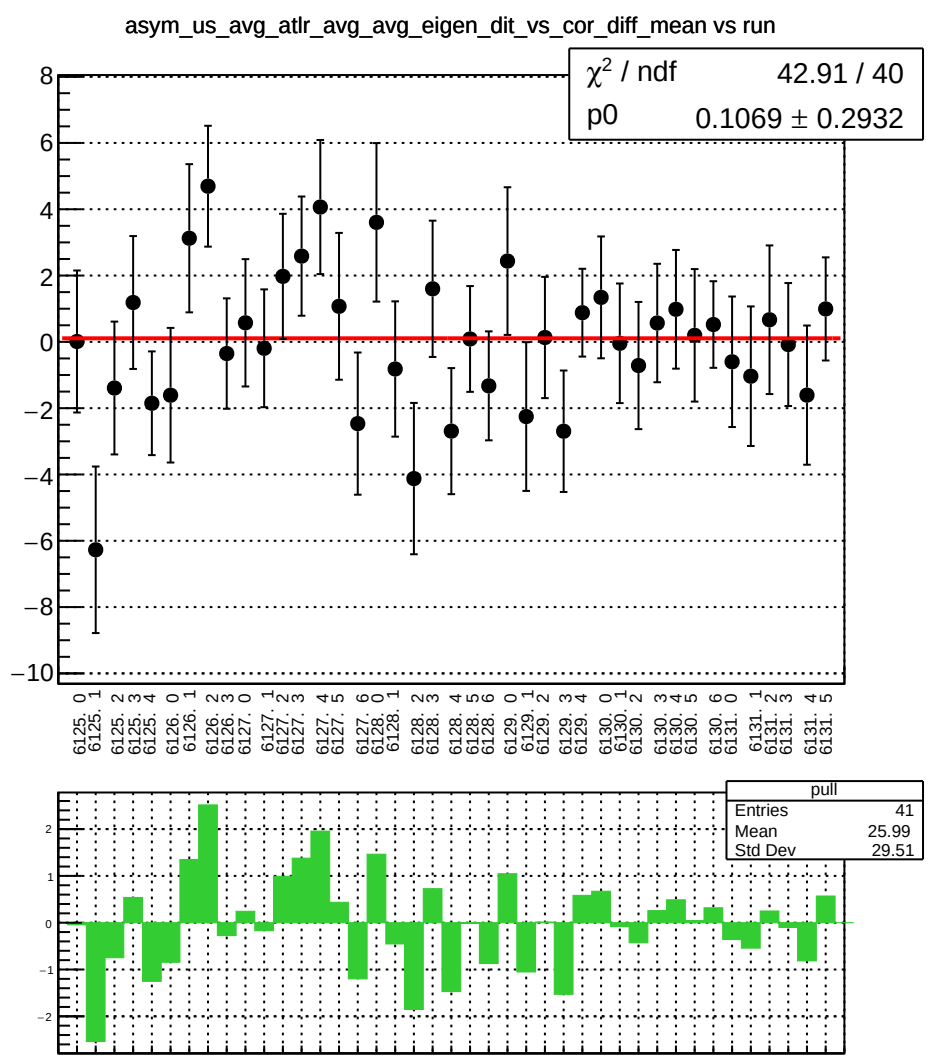

pull1D
Entries 41
Mean −0.01964
Std Dev 1.023

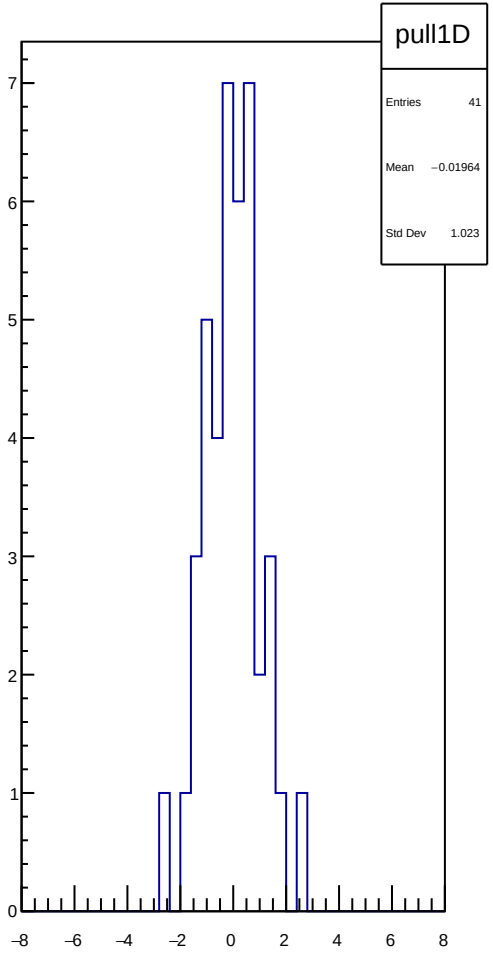

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8474 / 40
p0 184.9 ± 0.2073
240
220
200
180
160
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

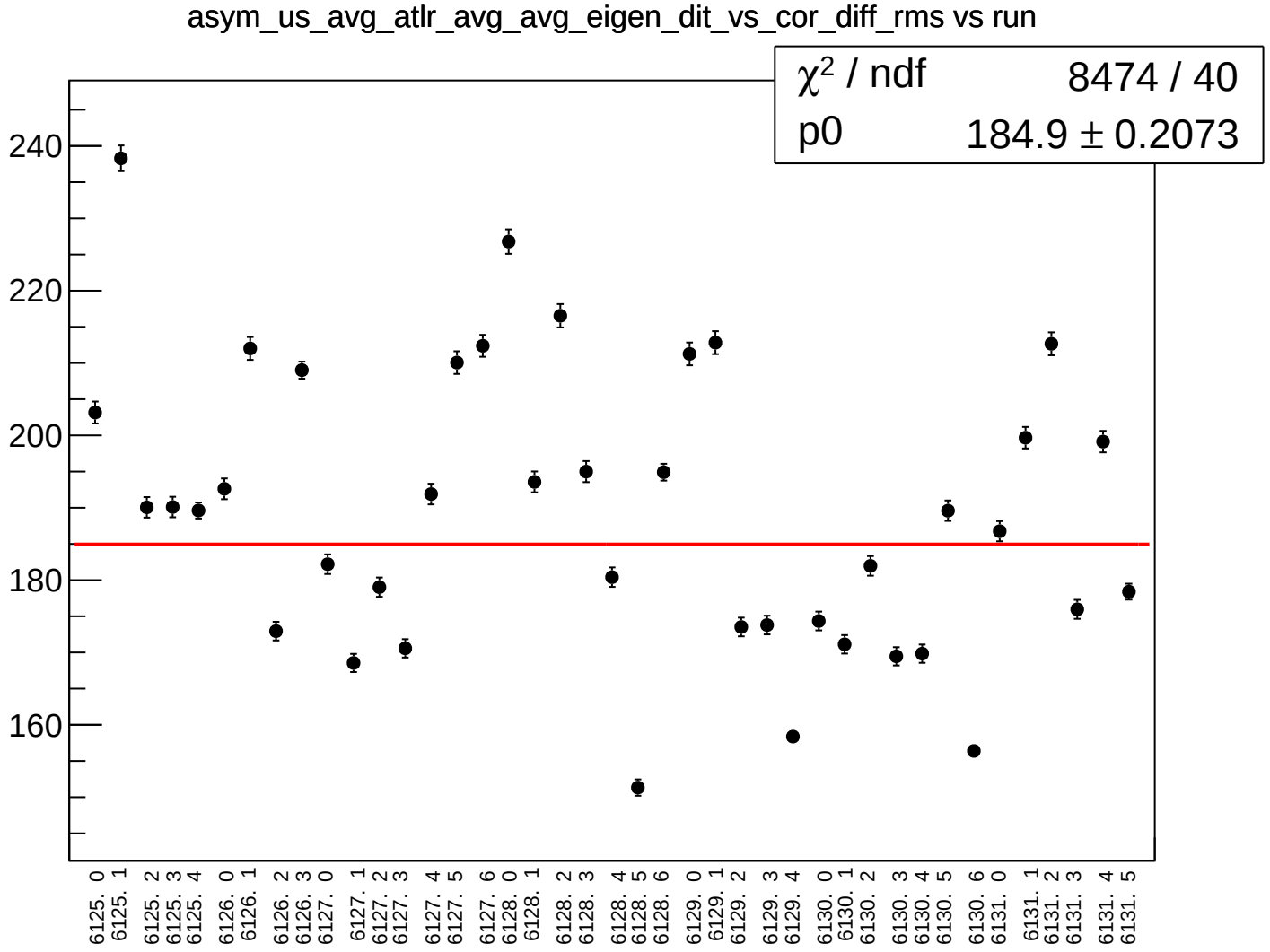

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 26.03 / 40
p0 −1.612e−05 ± 2.334e−05
0.4
0.2
0
−0.2
−0.4
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 754.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

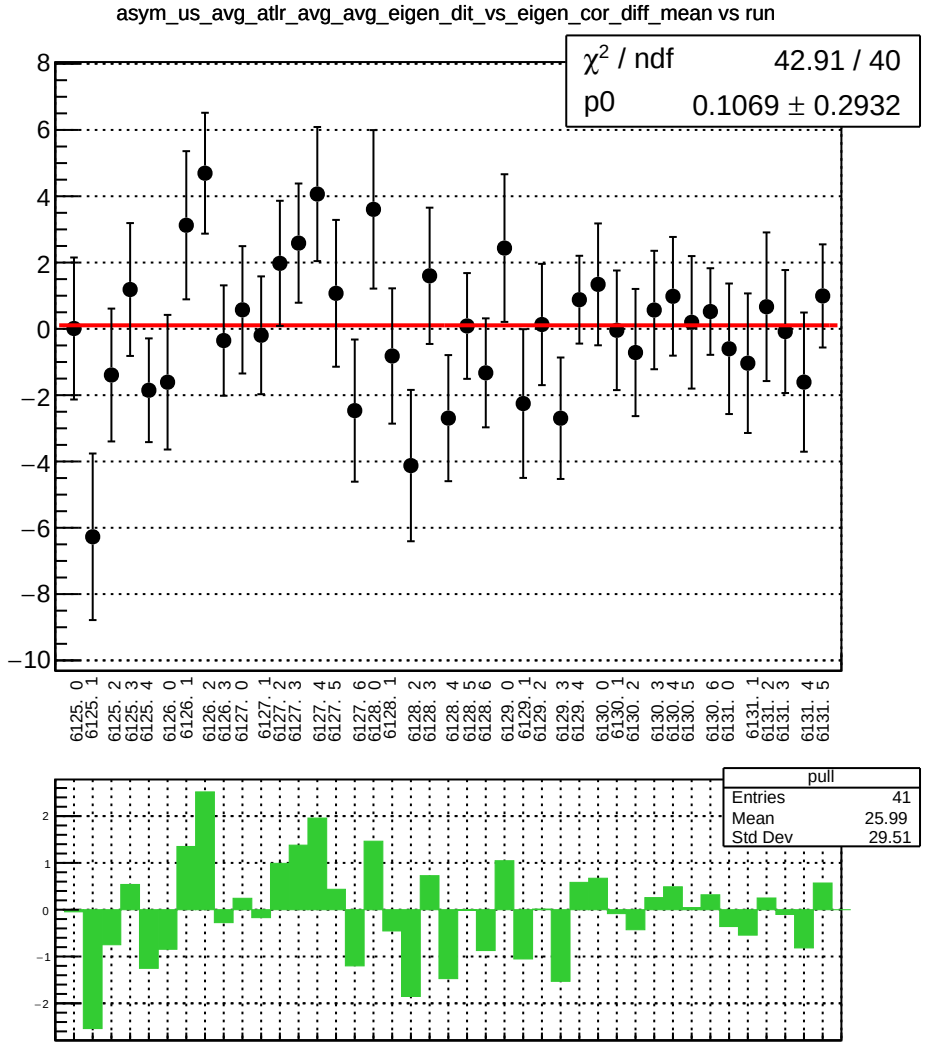

pull1D
Entries 41
Mean 0.002632
Std Dev 0.7968
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

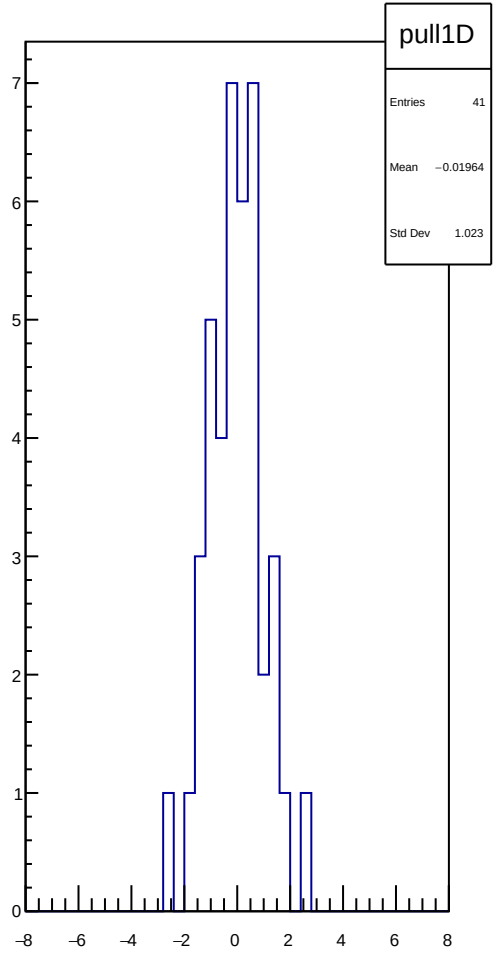

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2313 / 40
p0 0.01478 ± 1.65e−05
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014
0.0135
0.013
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

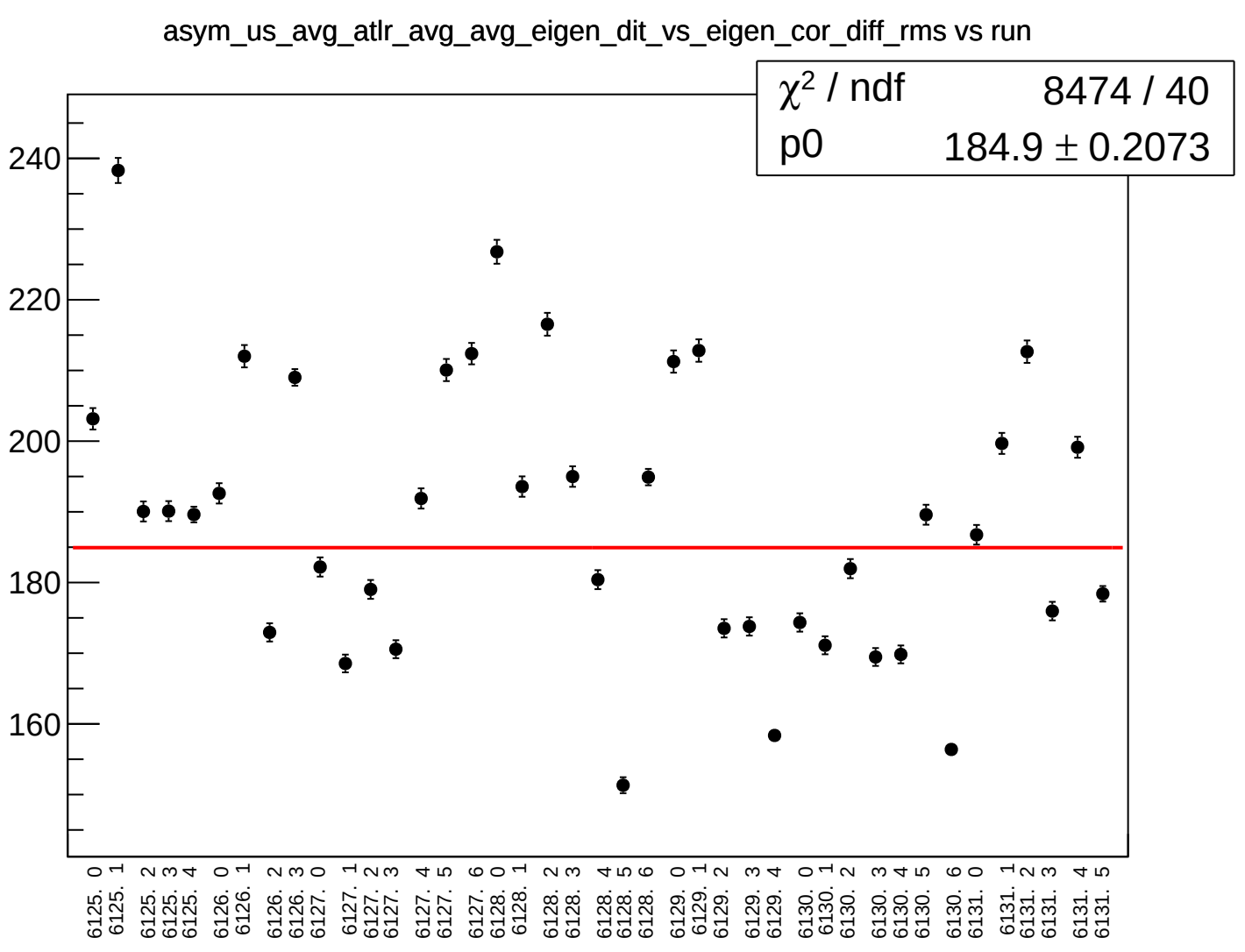

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 42.91 / 40
p0 0.1069 ± 0.2932
pull
Entries 41
Mean 25.99
Std Dev 29.51


pull1D
Entries 41
Mean −0.01964
Std Dev 1.023


asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8474 / 40
p0 184.9 ± 0.2073
240
220
200
180
160
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.91 / 40
p0 0.1069 ± 0.2932
pull
Entries 41
Mean 25.99
Std Dev 29.51


pull1D
Entries 41
Mean −0.01964
Std Dev 1.023


asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8474 / 40
p0 184.9 ± 0.2073
240
220
200
180
160
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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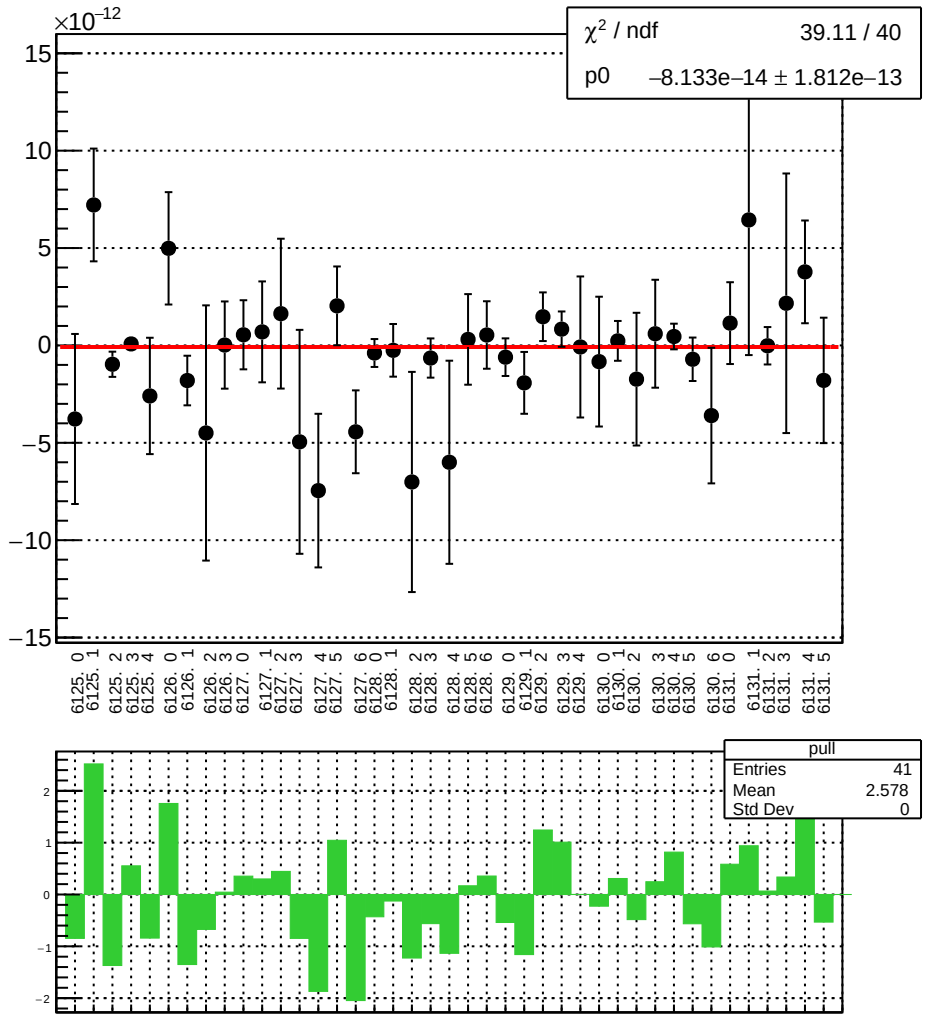
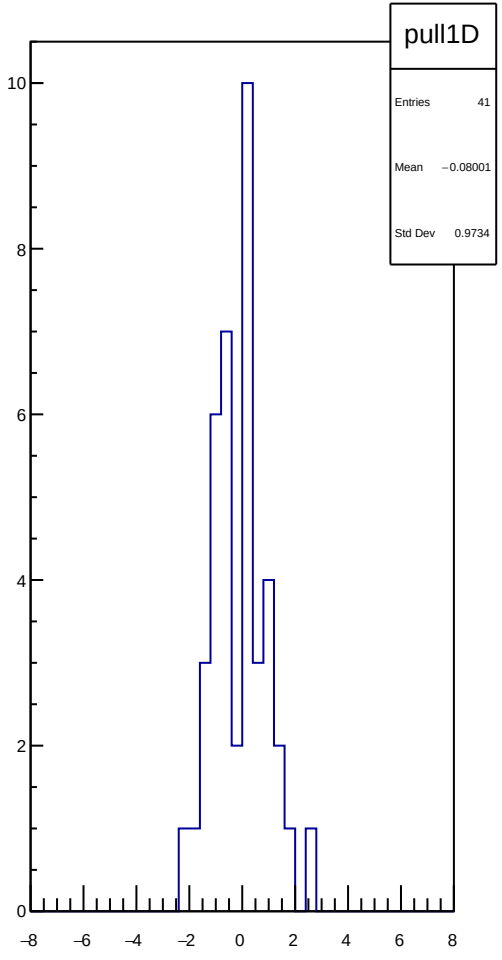
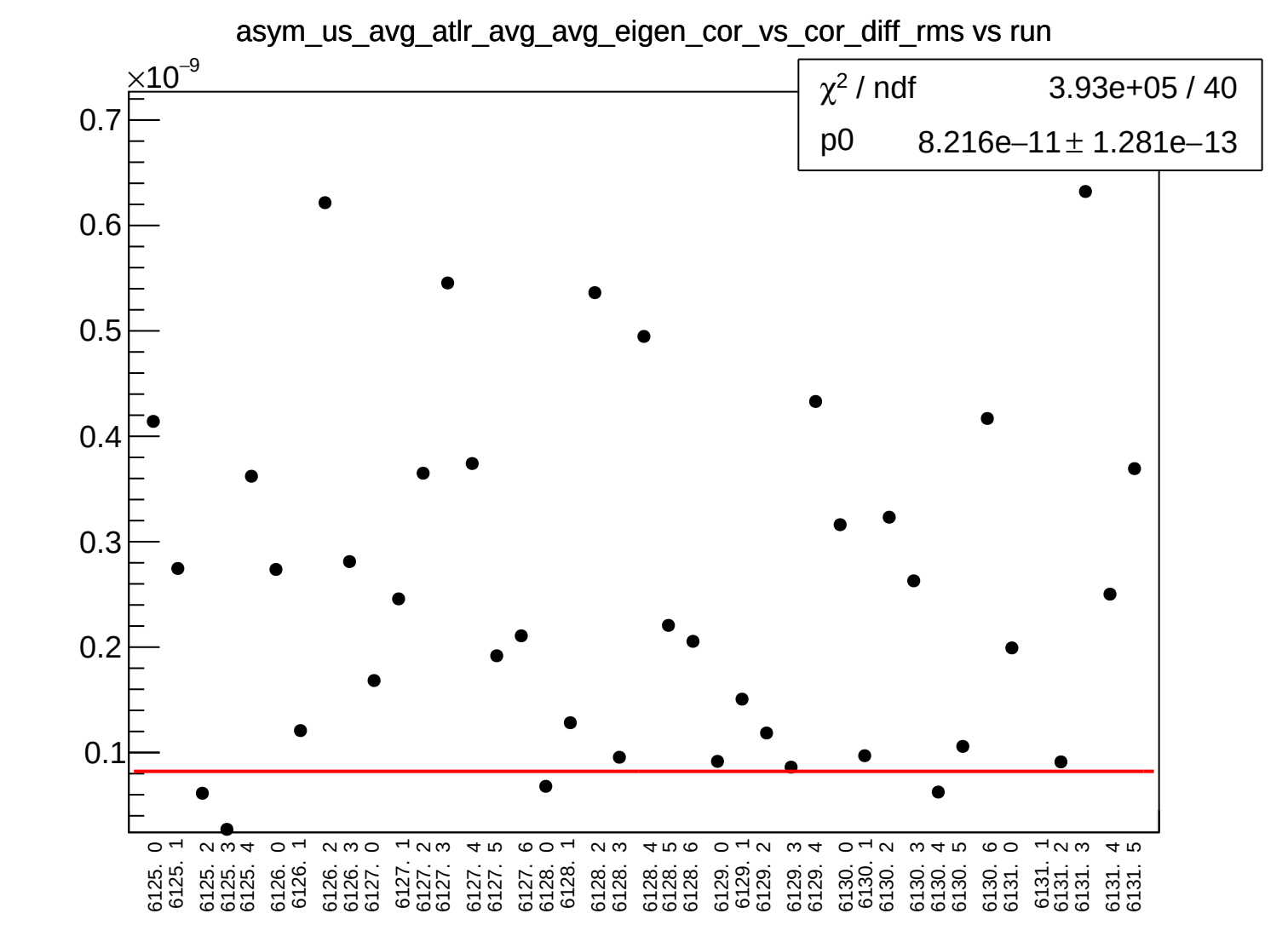
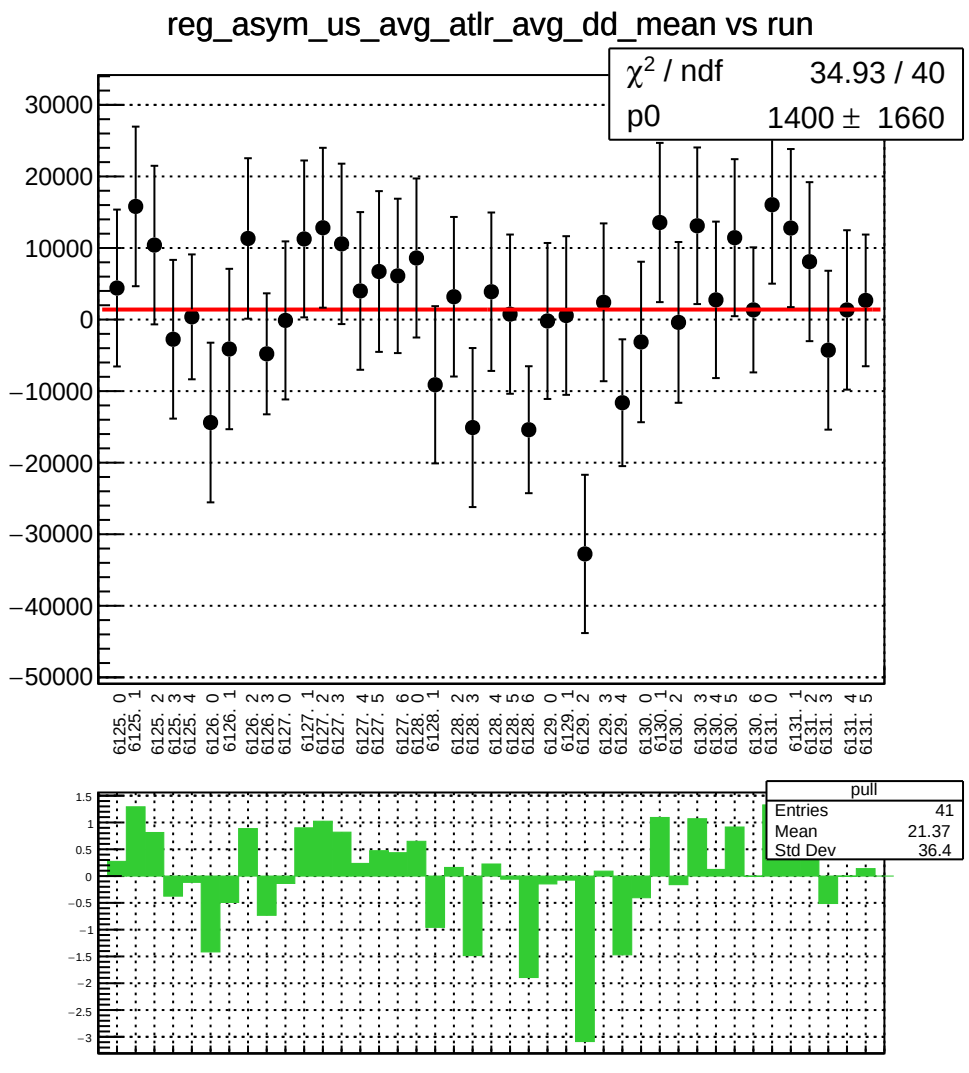
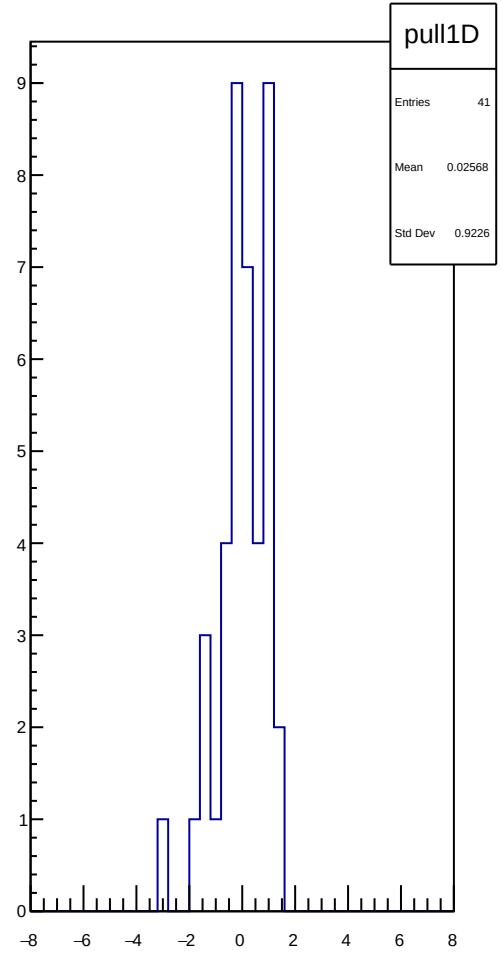
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

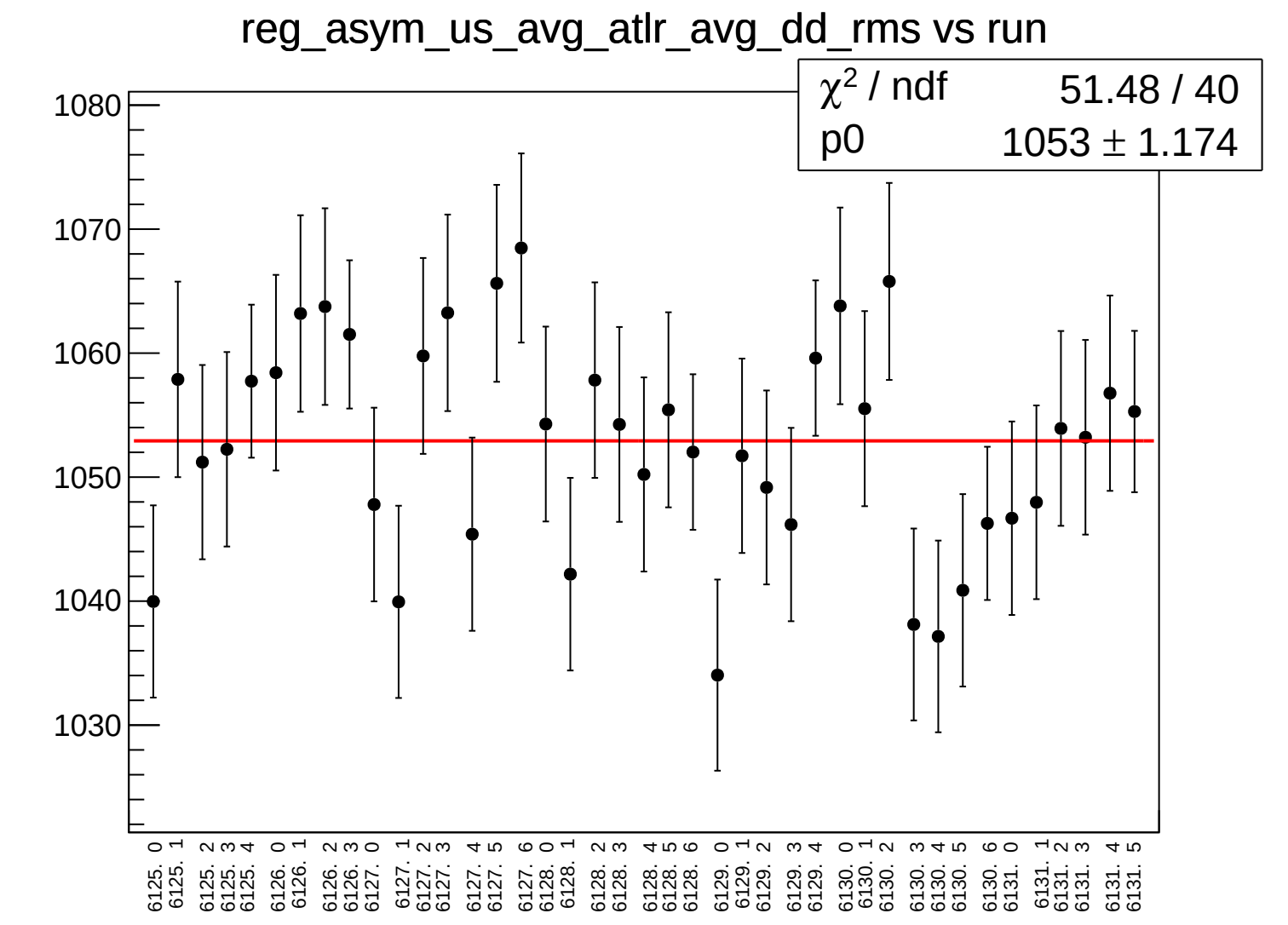

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 39.11 / 40
p0 −8.133e−14 ± 1.812e−13
pull
Entries 41
Mean 2.578
Std Dev 0

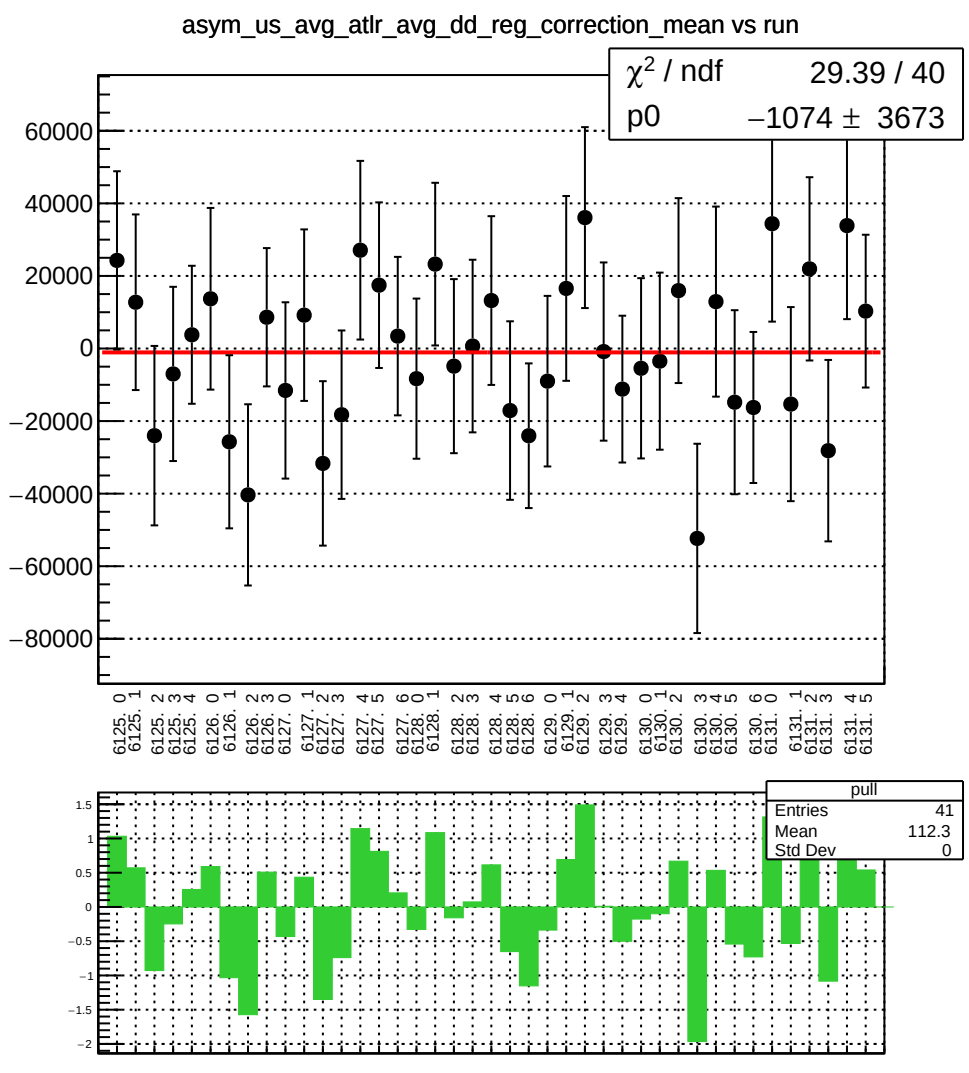

pull1D
Entries 41
Mean −0.08001
Std Dev 0.9734

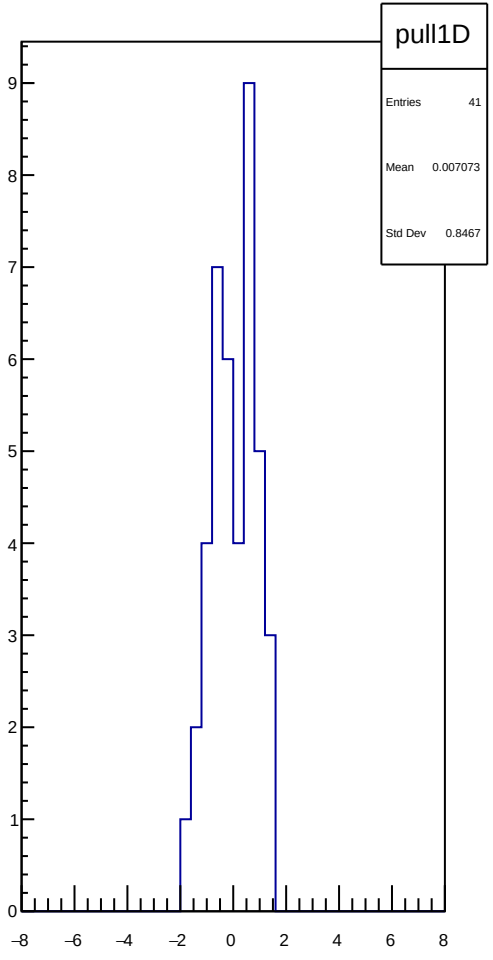

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.93e+05 / 40
p0 8.216e−11 ± 1.281e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

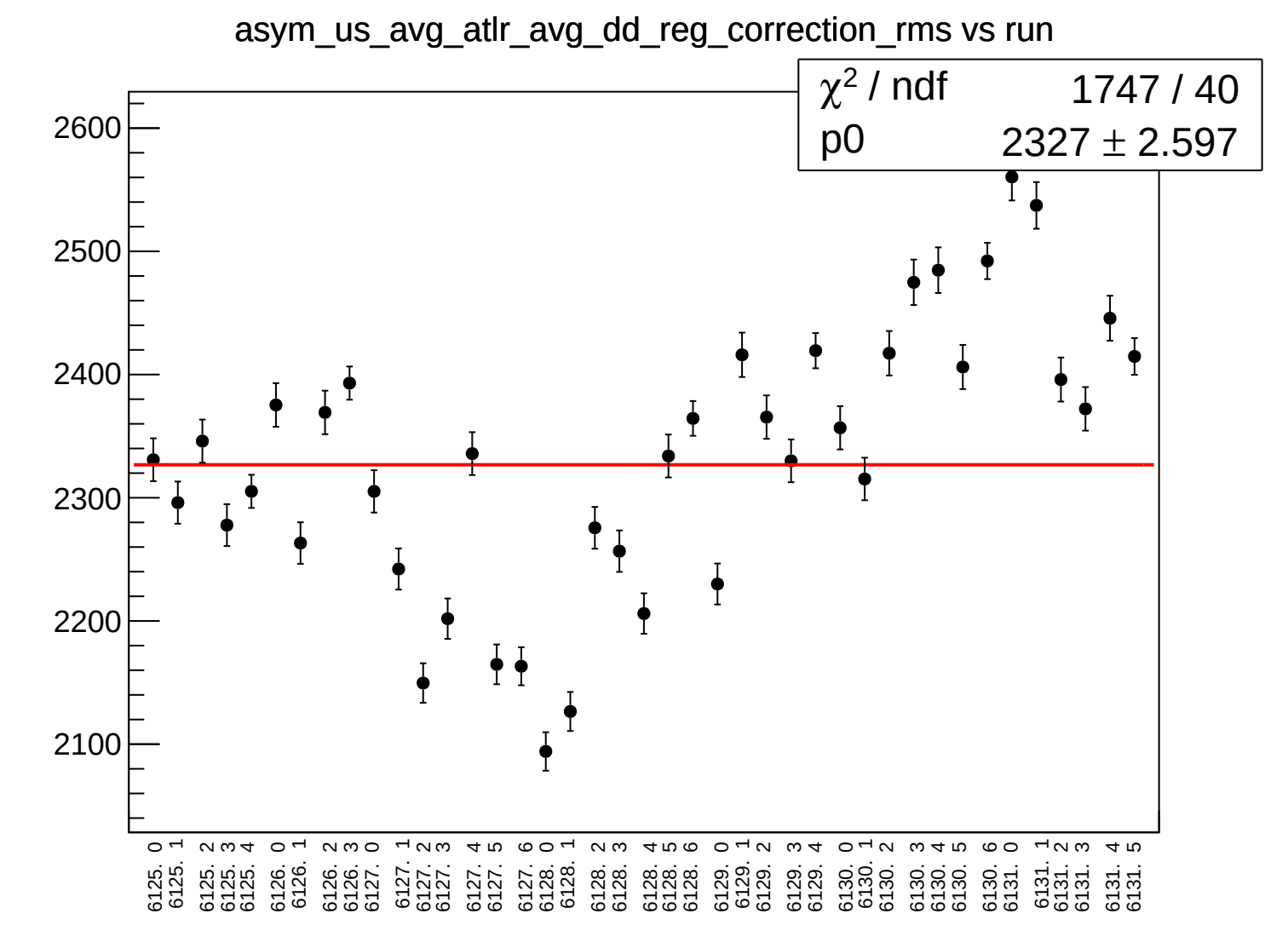

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 34.93 / 40
p0 1400 ± 1660
pull
Entries 41
Mean 21.37
Std Dev 36.4

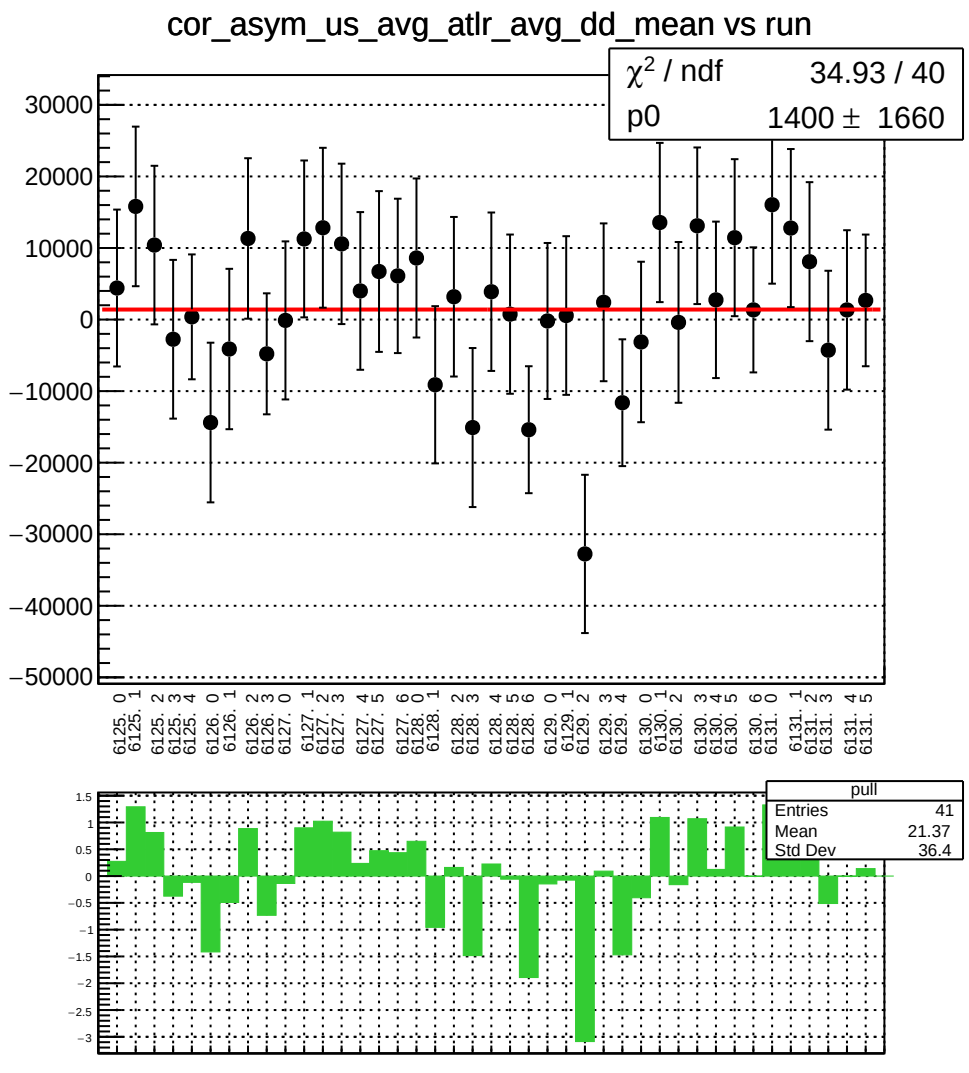

pull1D
Entries 41
Mean 0.02568
Std Dev 0.9226

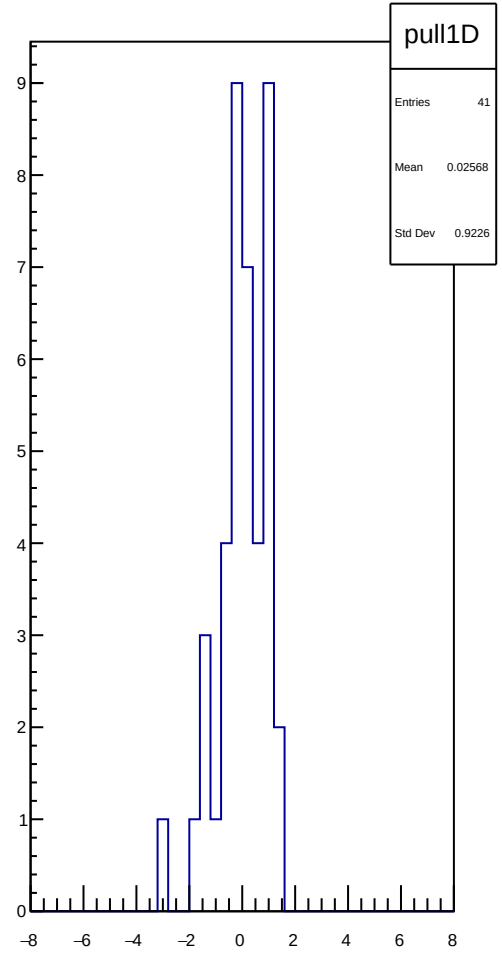

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 51.48 / 40
p0 1053 ± 1.174
1080
1070
1060
1050
1040
1030
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

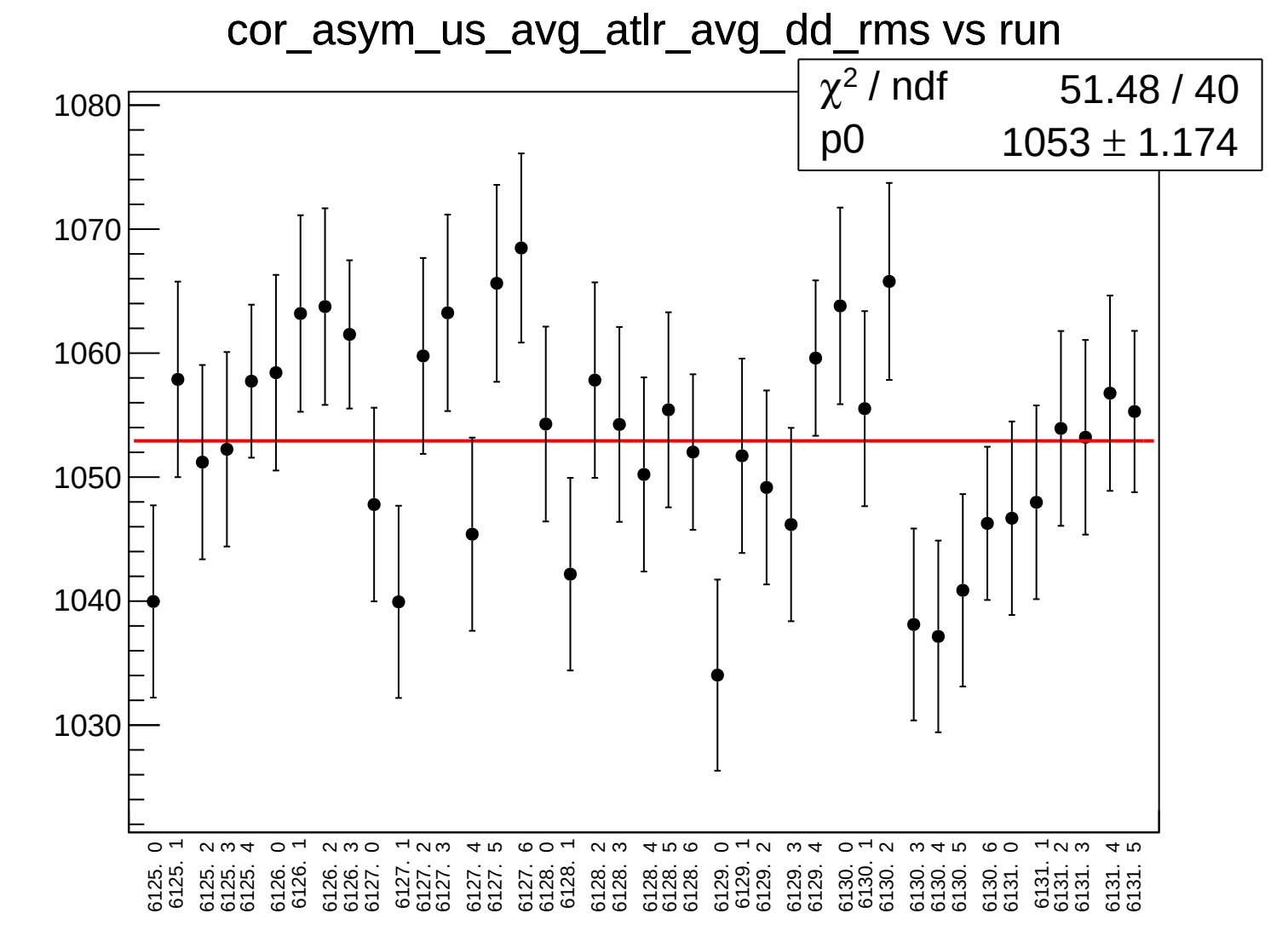

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
χ² / ndf 29.39 / 40
p0 −1074 ± 3673
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 112.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

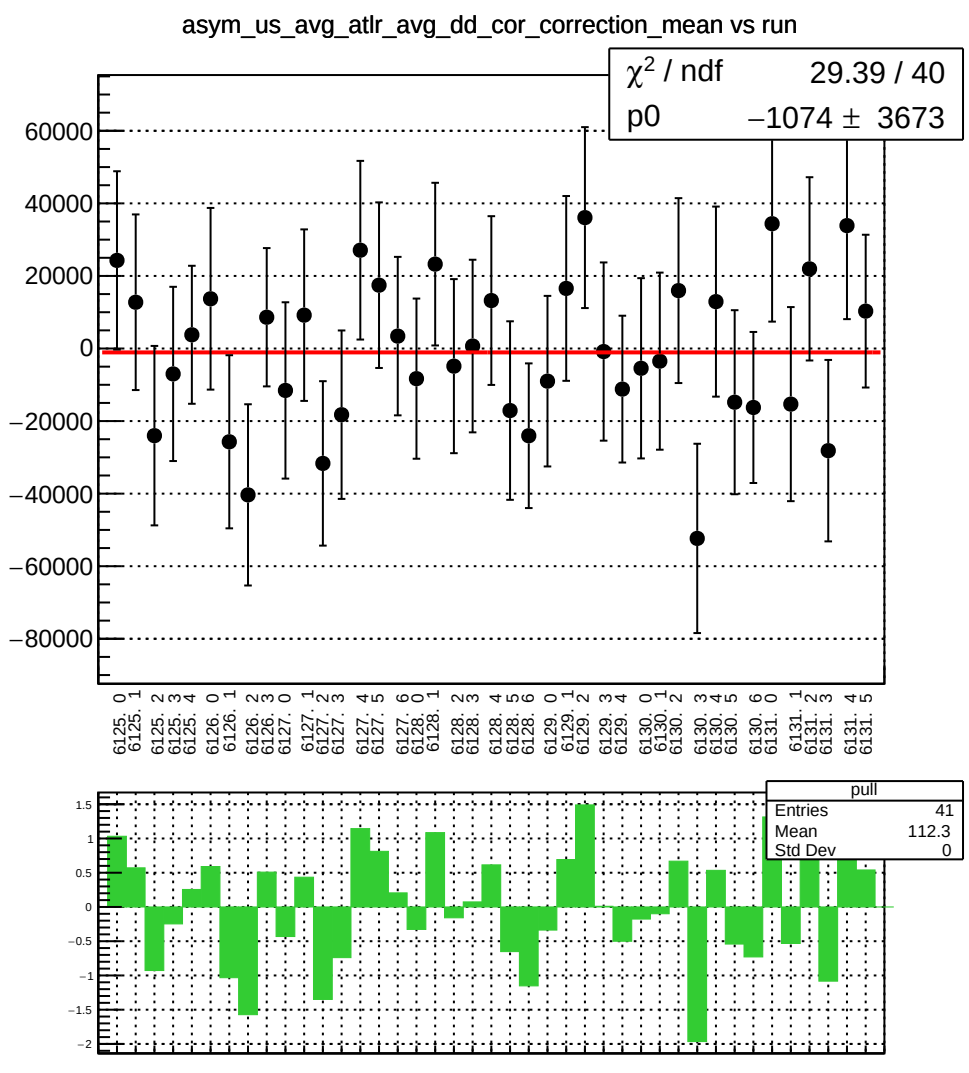

pull1D
Entries 41
Mean 0.007073
Std Dev 0.8467
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

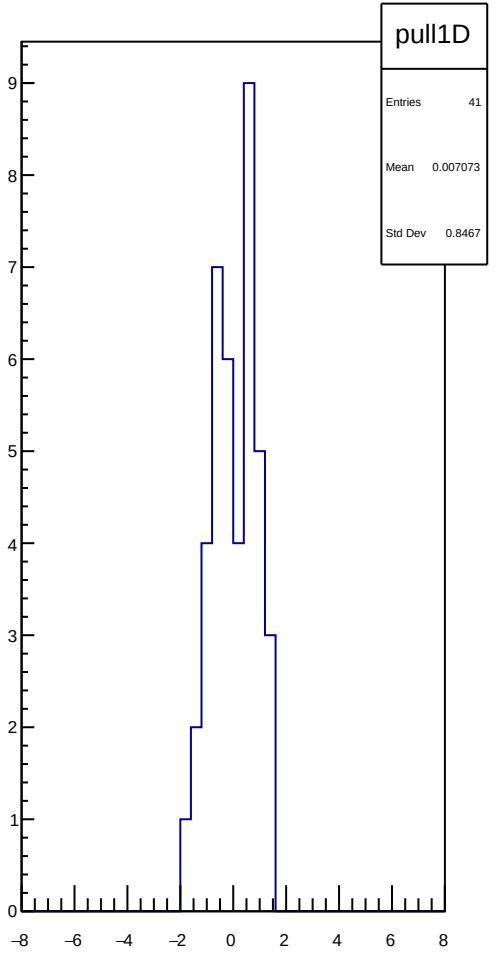

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 1747 / 40
p0 2327 ± 2.597
2600
2500
2400
2300
2200
2100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

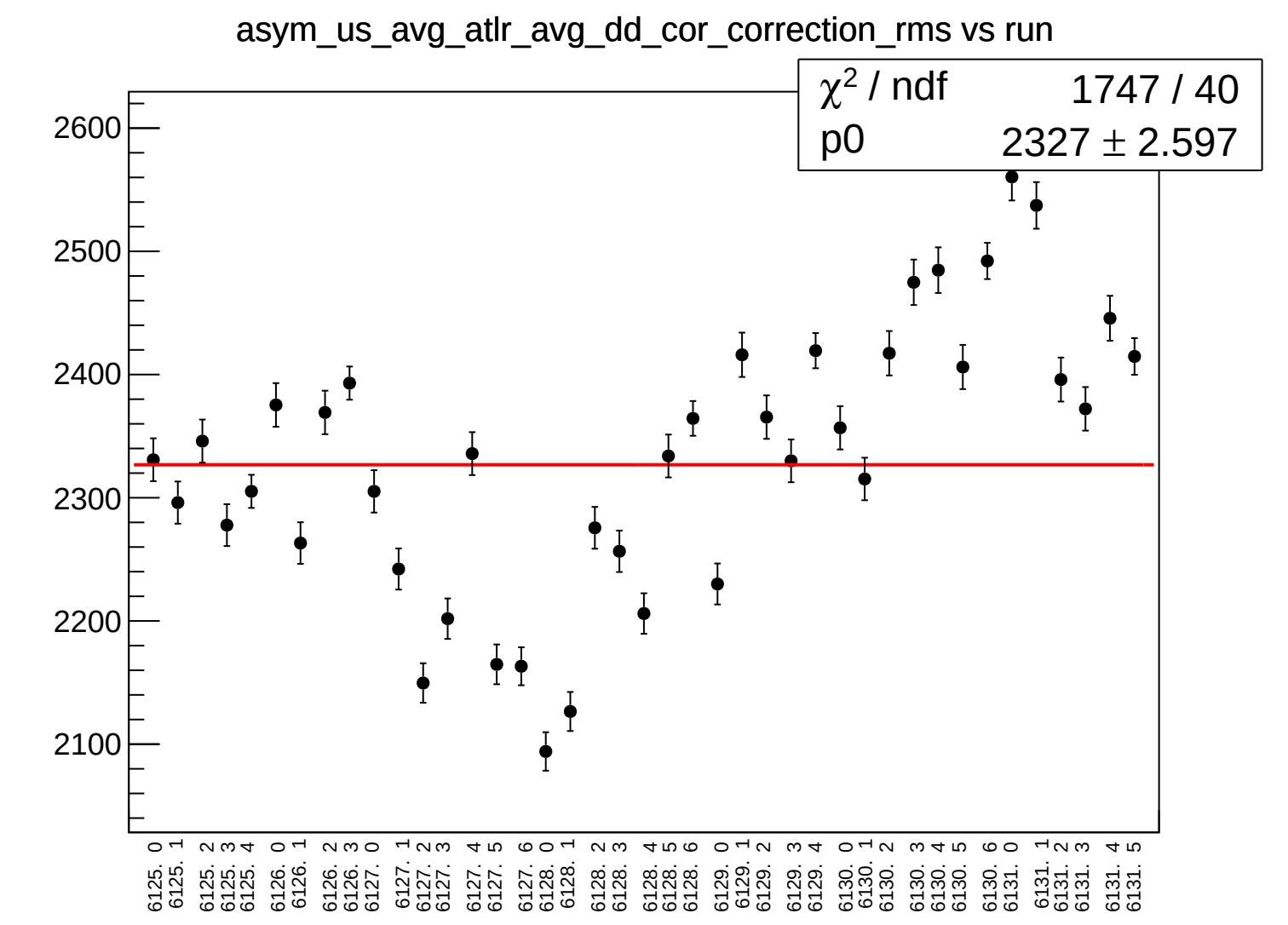

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 34.93 / 40
p0 1400 ± 1660
pull
Entries 41
Mean 21.37
Std Dev 36.4

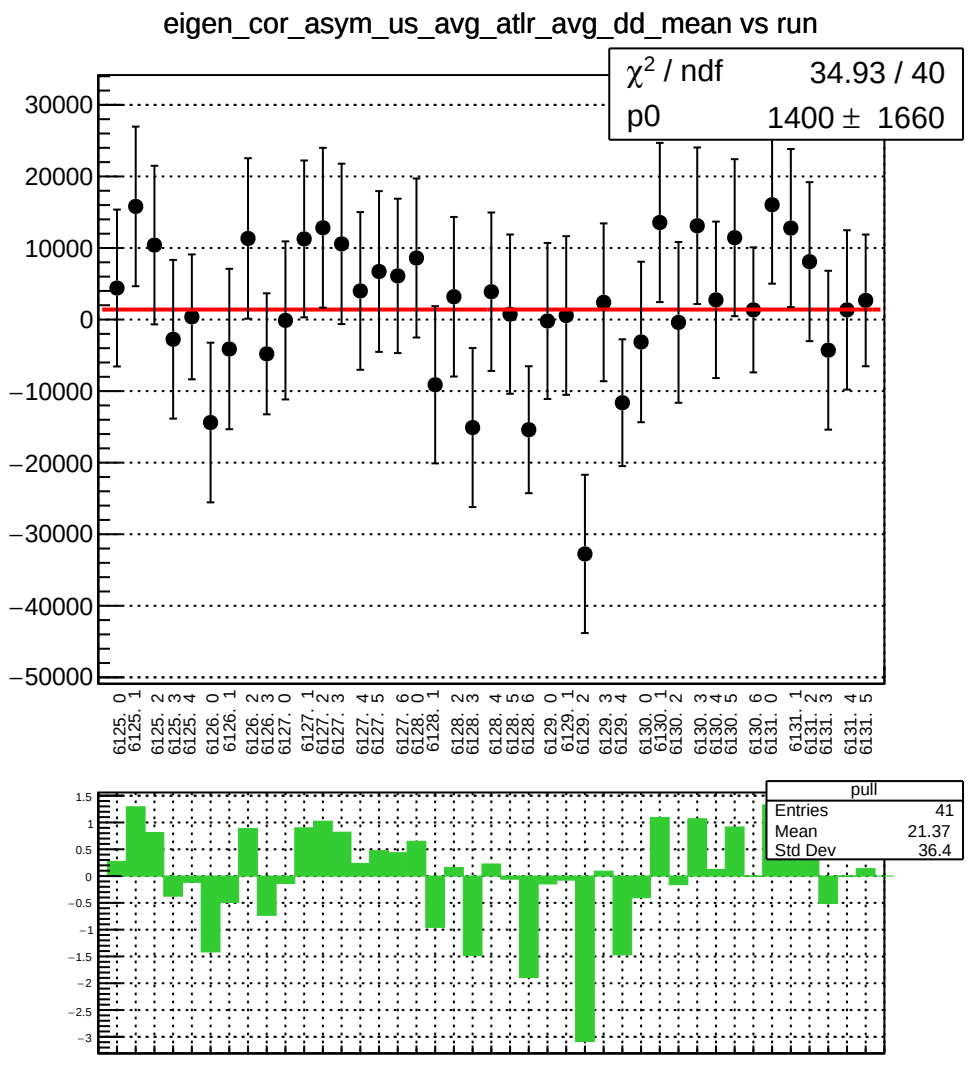

pull1D
Entries 41
Mean 0.02568
Std Dev 0.9226

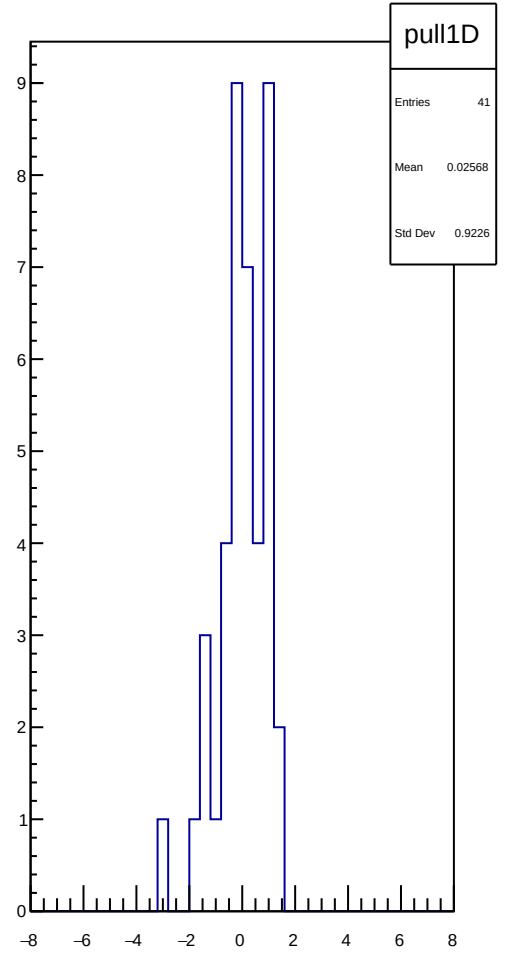

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 51.48 / 40
p0 1053 ± 1.174
1080
1070
1060
1050
1040
1030
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

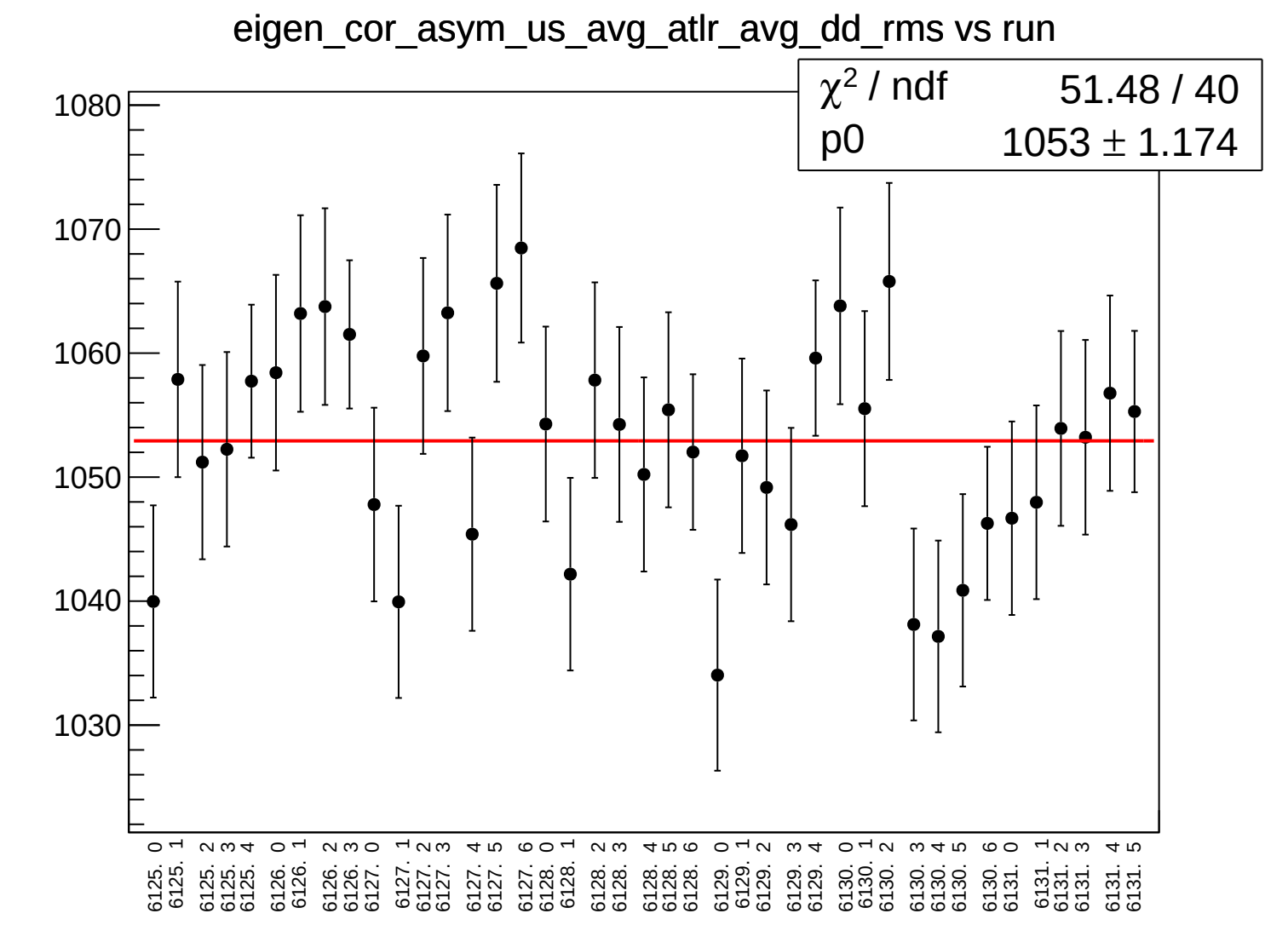

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
χ² / ndf 29.39 / 40
p0 −1074 ± 3673
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 112.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

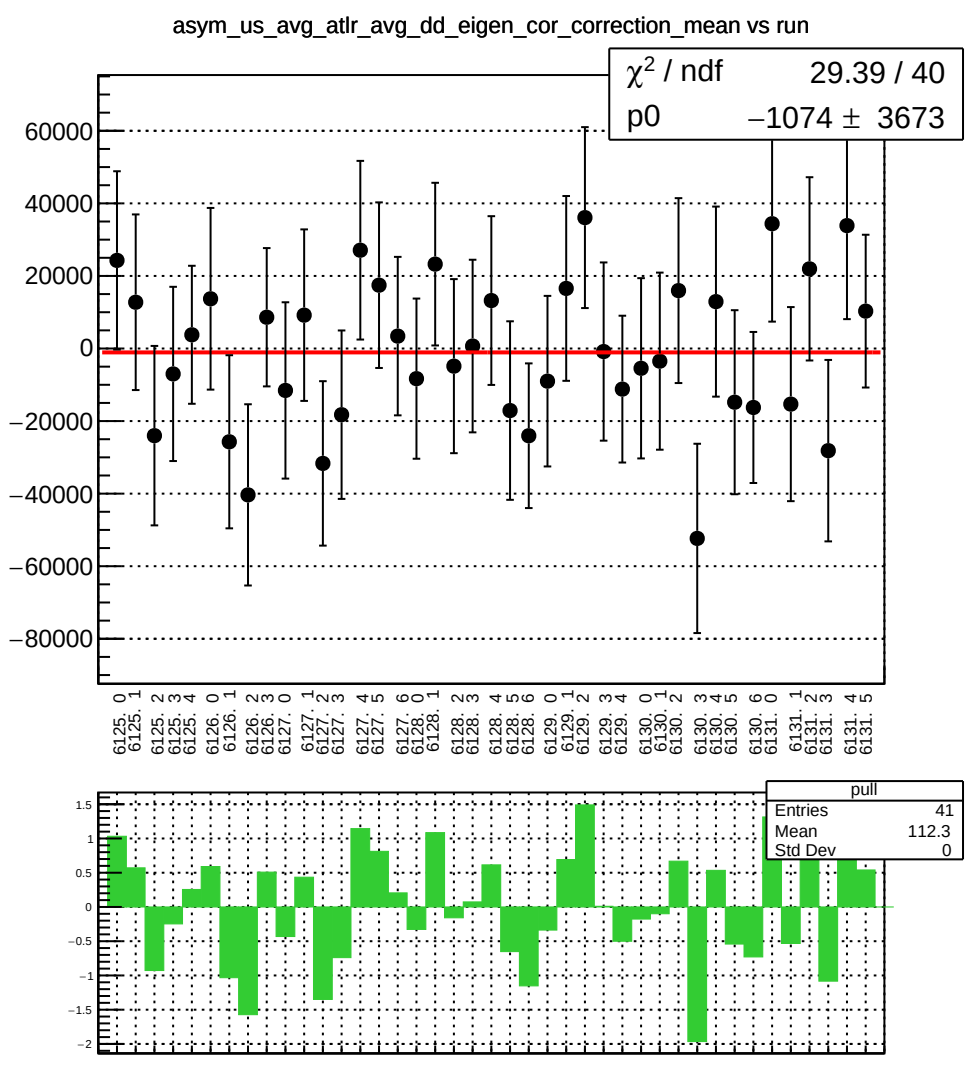

pull1D
Entries 41
Mean 0.007073
Std Dev 0.8467
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

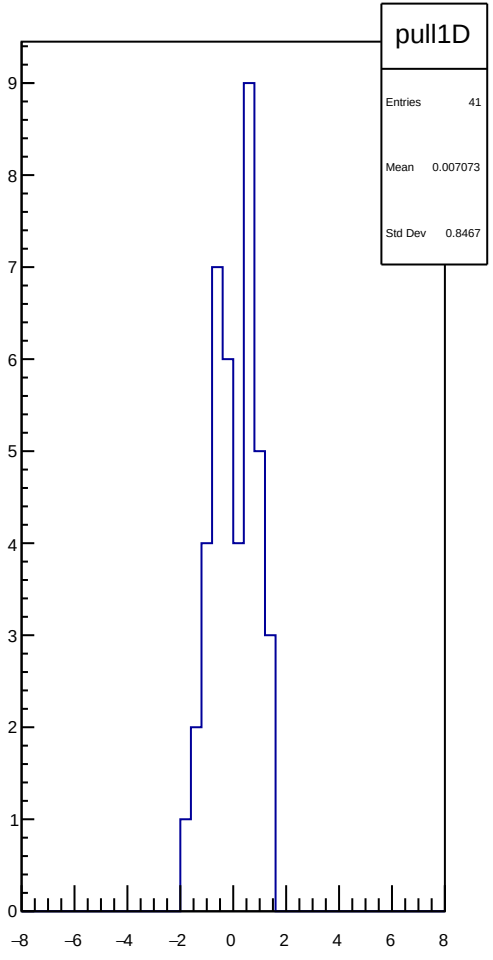

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 1747 / 40
p0 2327 ± 2.597
2600
2500
2400
2300
2200
2100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

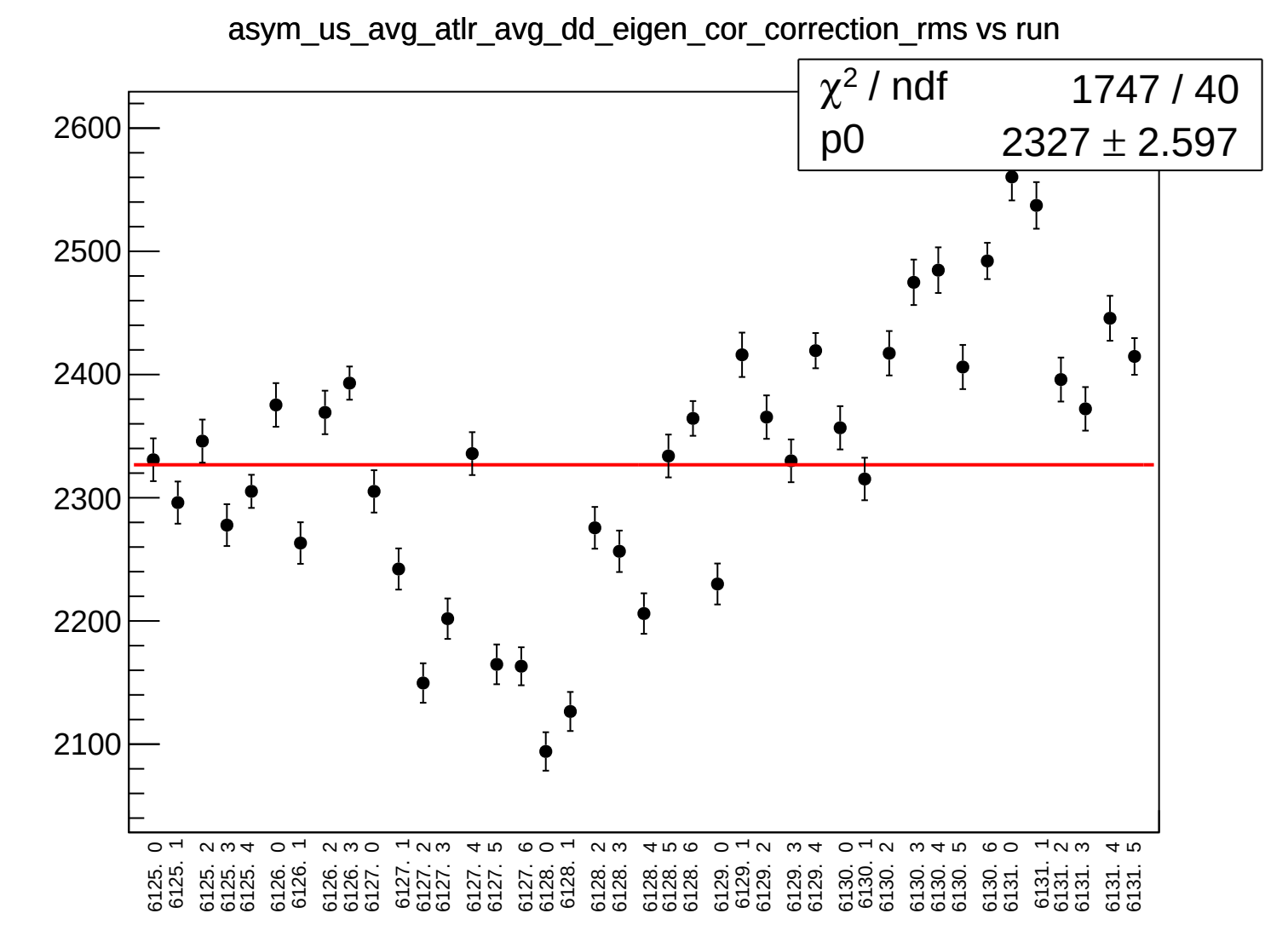

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 34.93 / 40
p0 1400 ± 1660
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 21.37
Std Dev 36.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

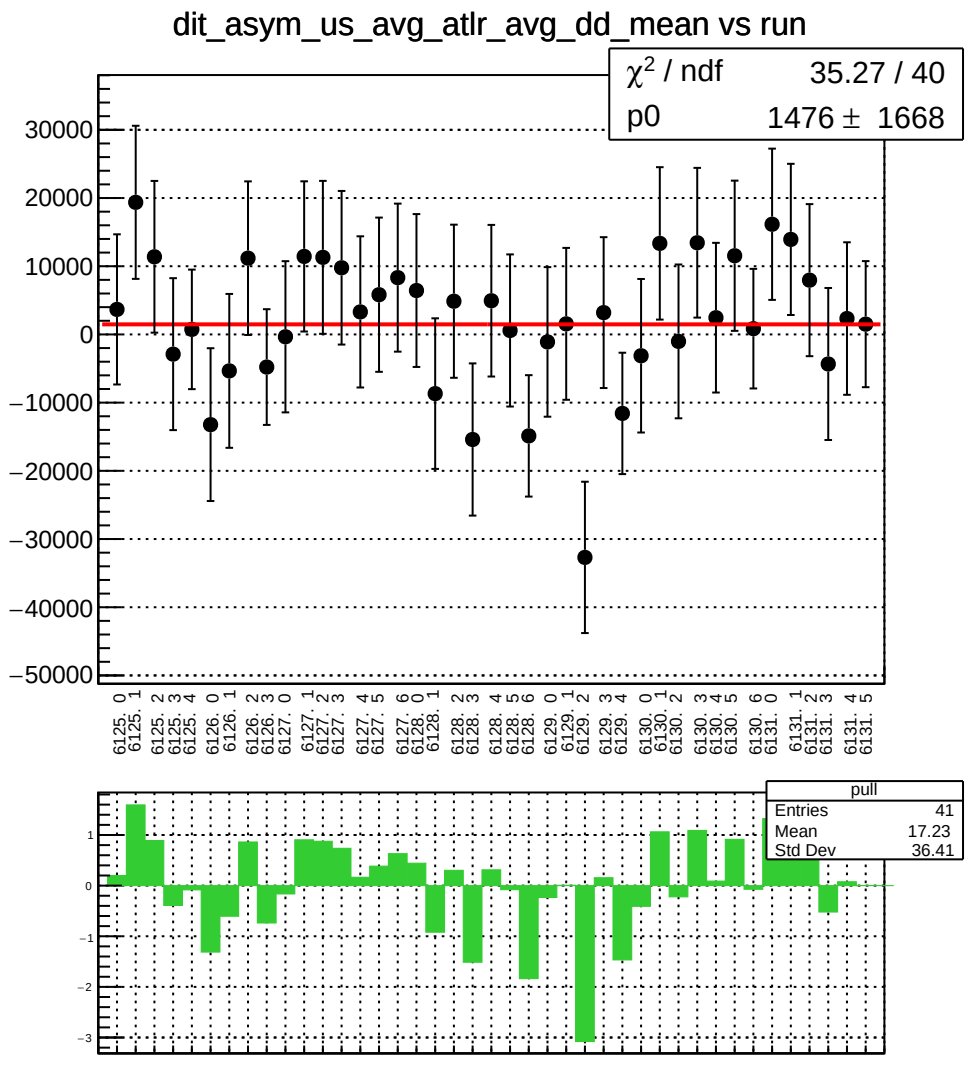

pull1D
Entries 41
Mean 0.02568
Std Dev 0.9226
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

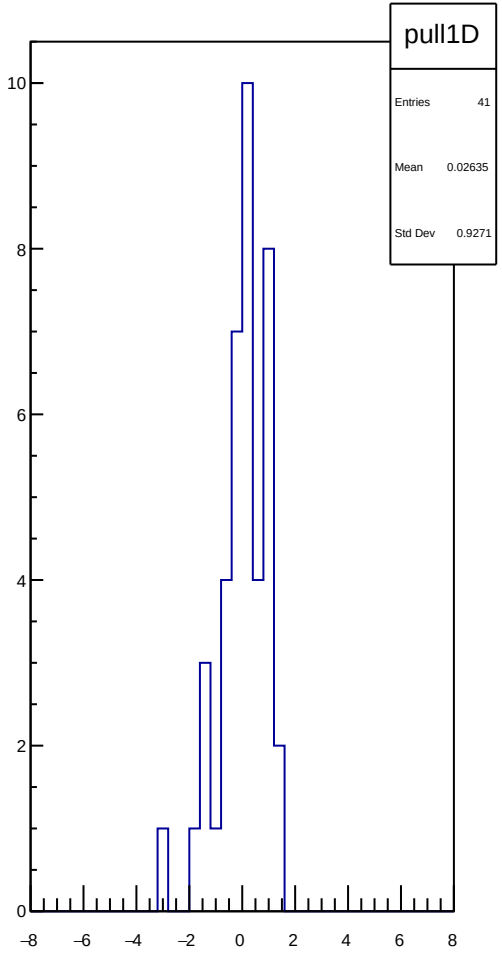

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 51.48 / 40
p0 1053 ± 1.174
1080
1070
1060
1050
1040
1030
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

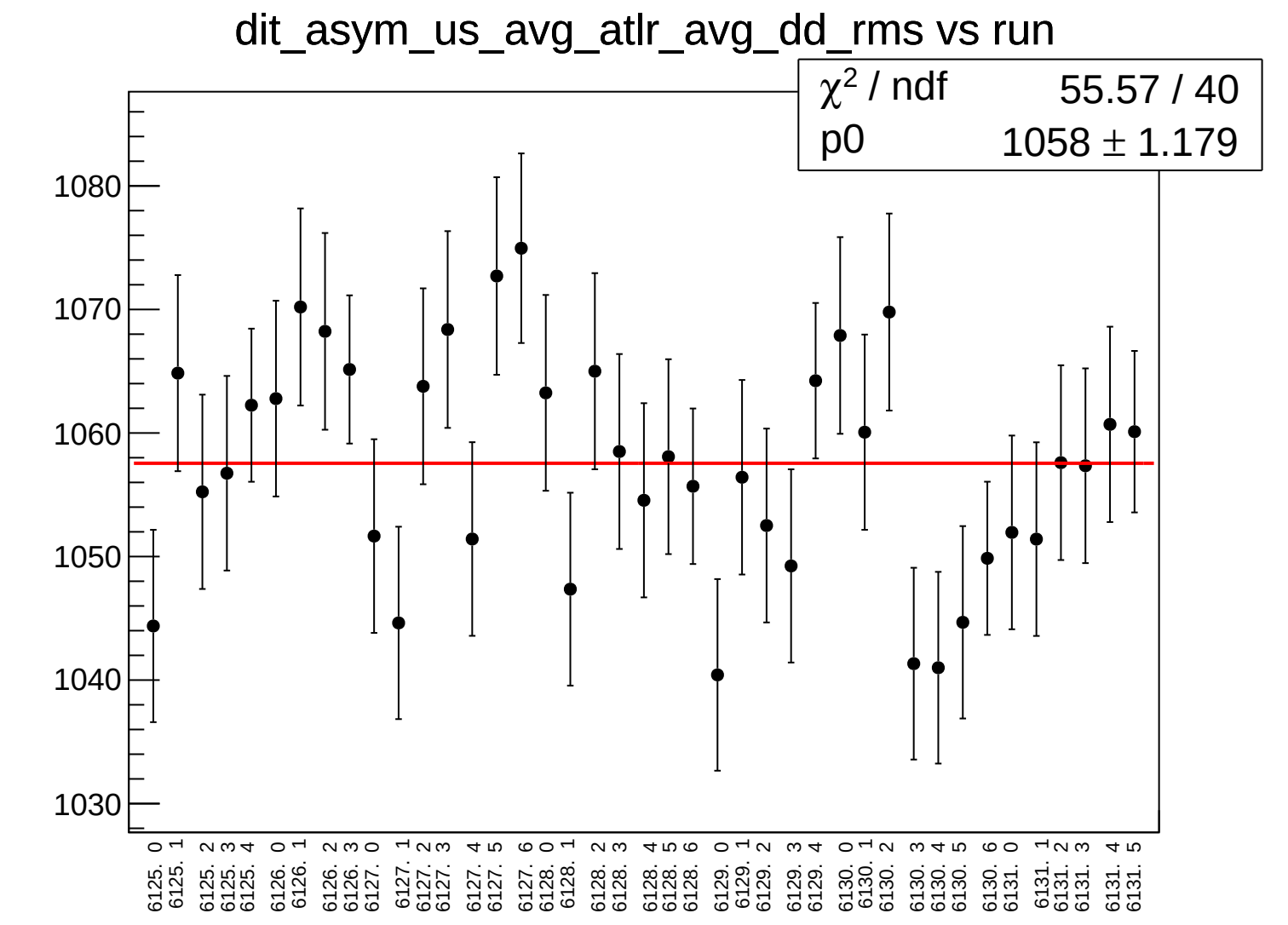

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 29.39 / 40
p0 −1074 ± 3673
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 112.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

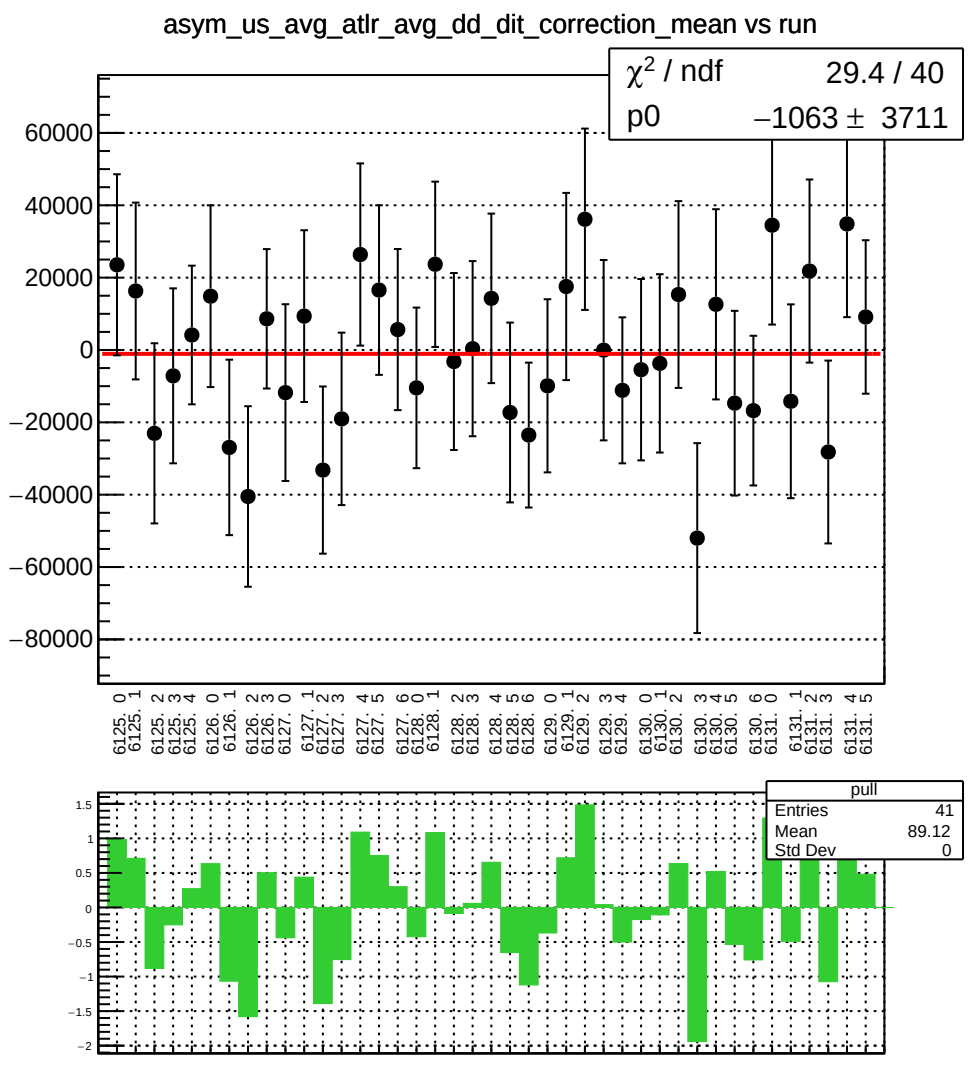

pull1D
Entries 41
Mean 0.007073
Std Dev 0.8467
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

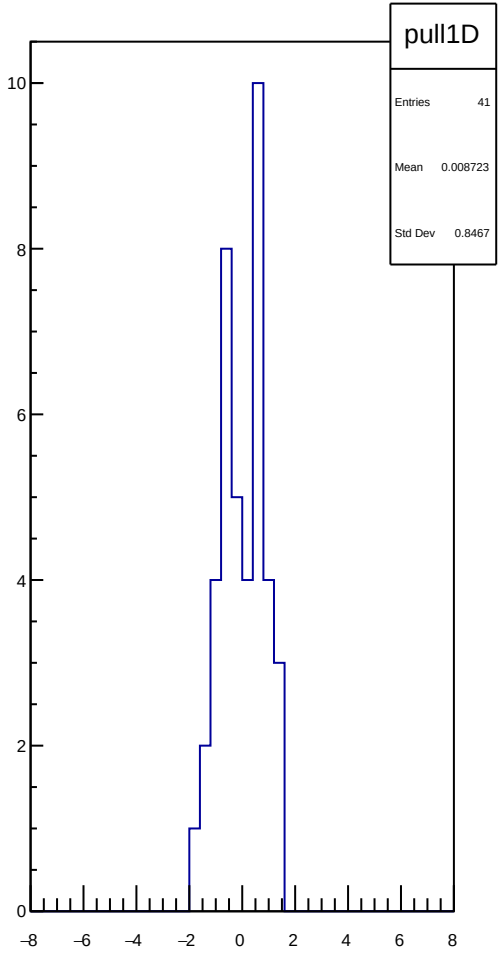

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1747 / 40
p0 2327 ± 2.597
2600
2500
2400
2300
2200
2100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

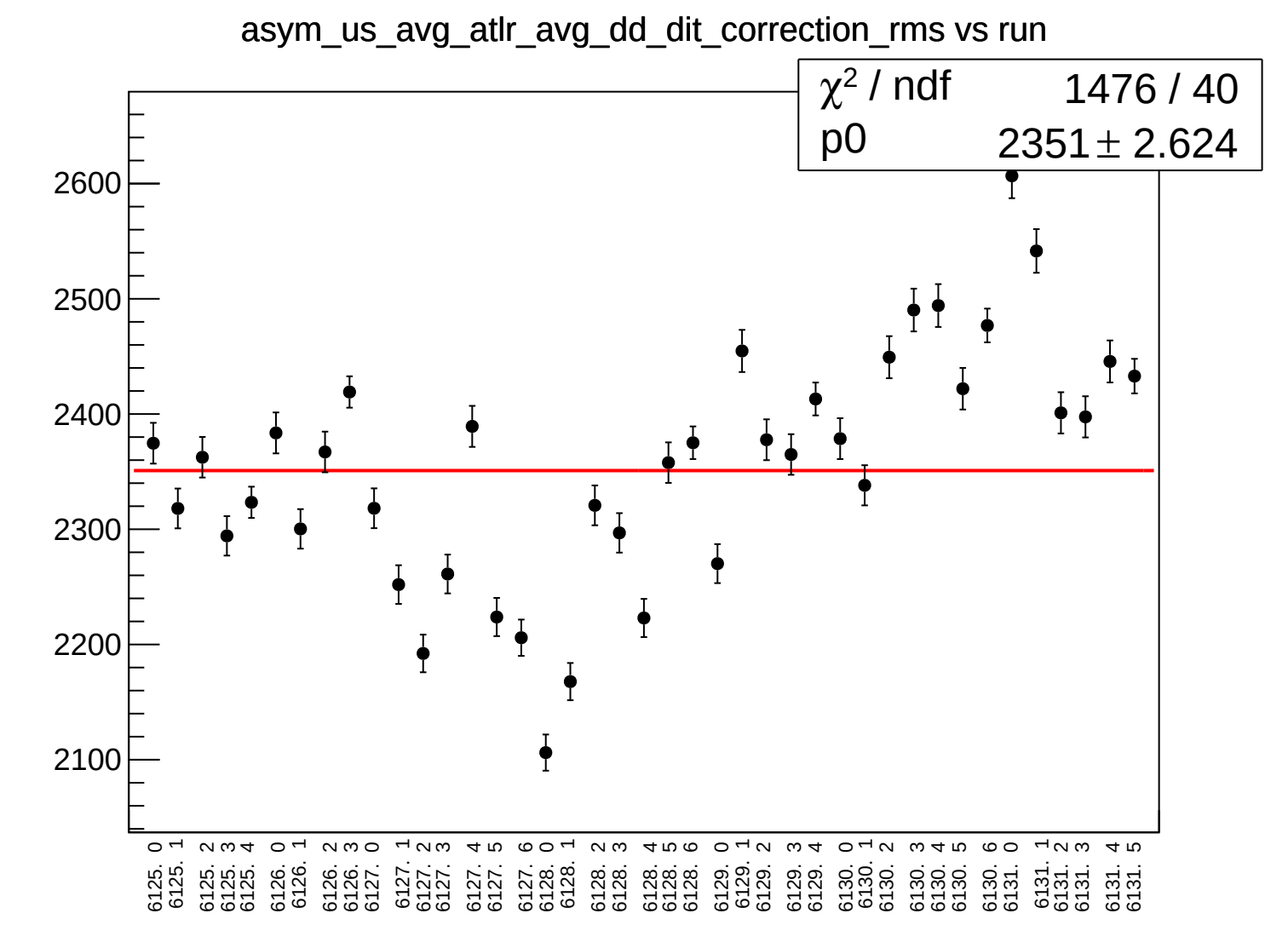

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 35.27 / 40
p0 1476 ± 1668
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 17.23
Std Dev 36.41
1
0
−1
−2
−3

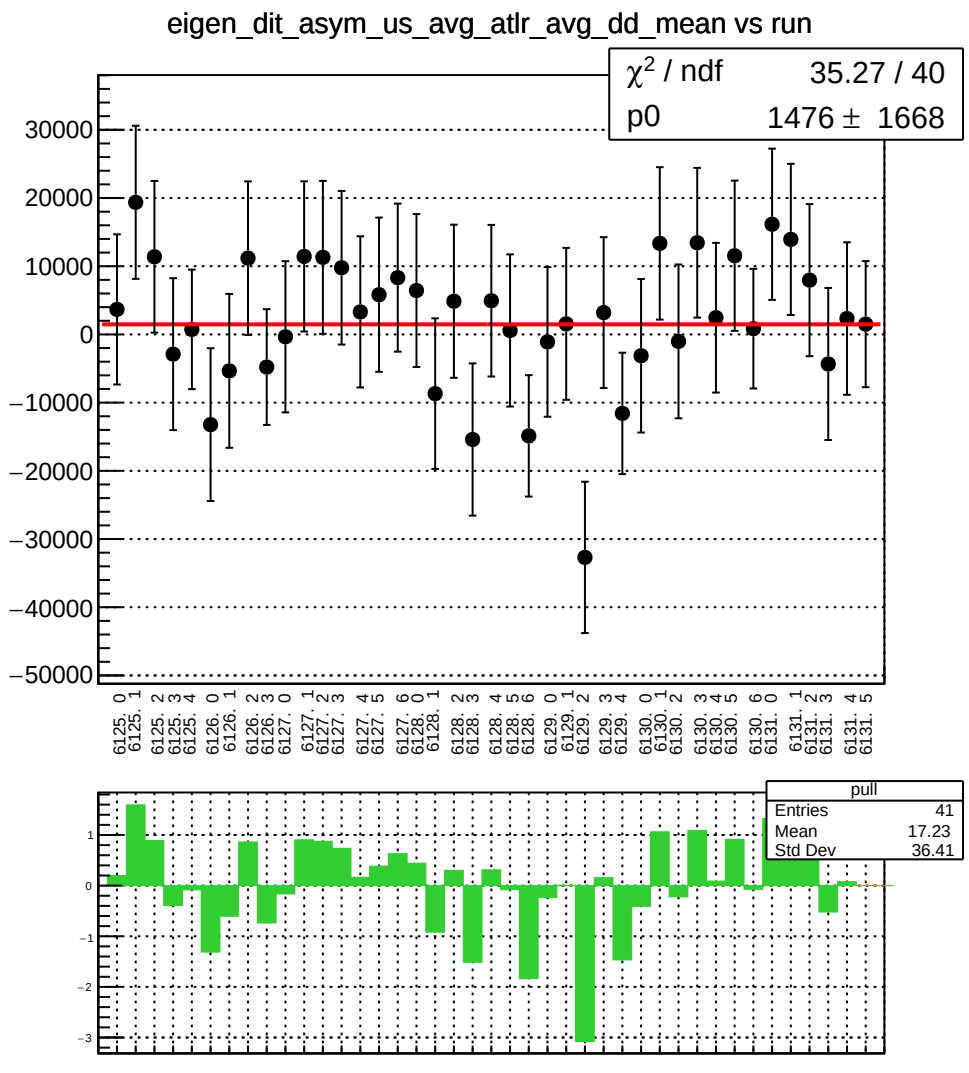

pull1D
Entries 41
Mean 0.02635
Std Dev 0.9271
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

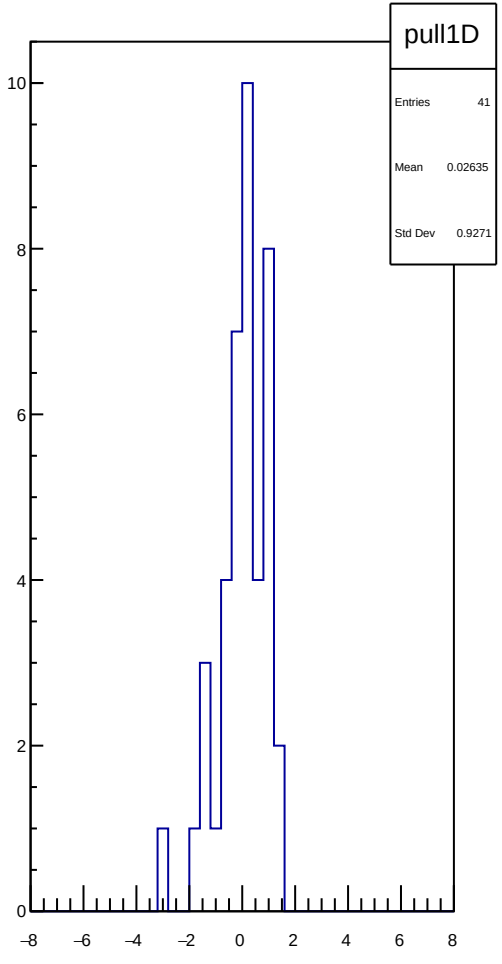

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 55.57 / 40
p0 1058 ± 1.179
1080
1070
1060
1050
1040
1030
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

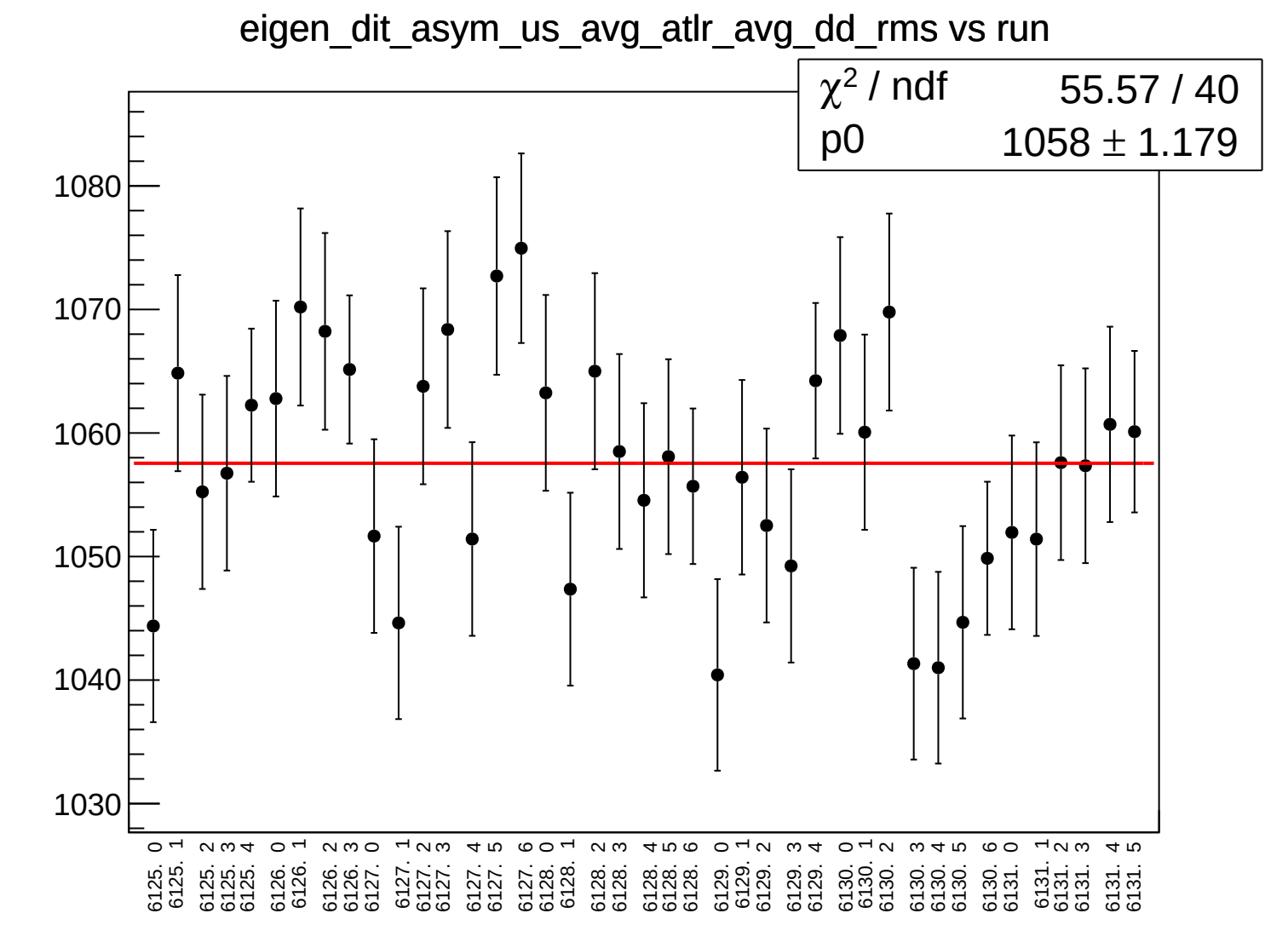

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
χ² / ndf 29.4 / 40
p0 −1063 ± 3711
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 89.12
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

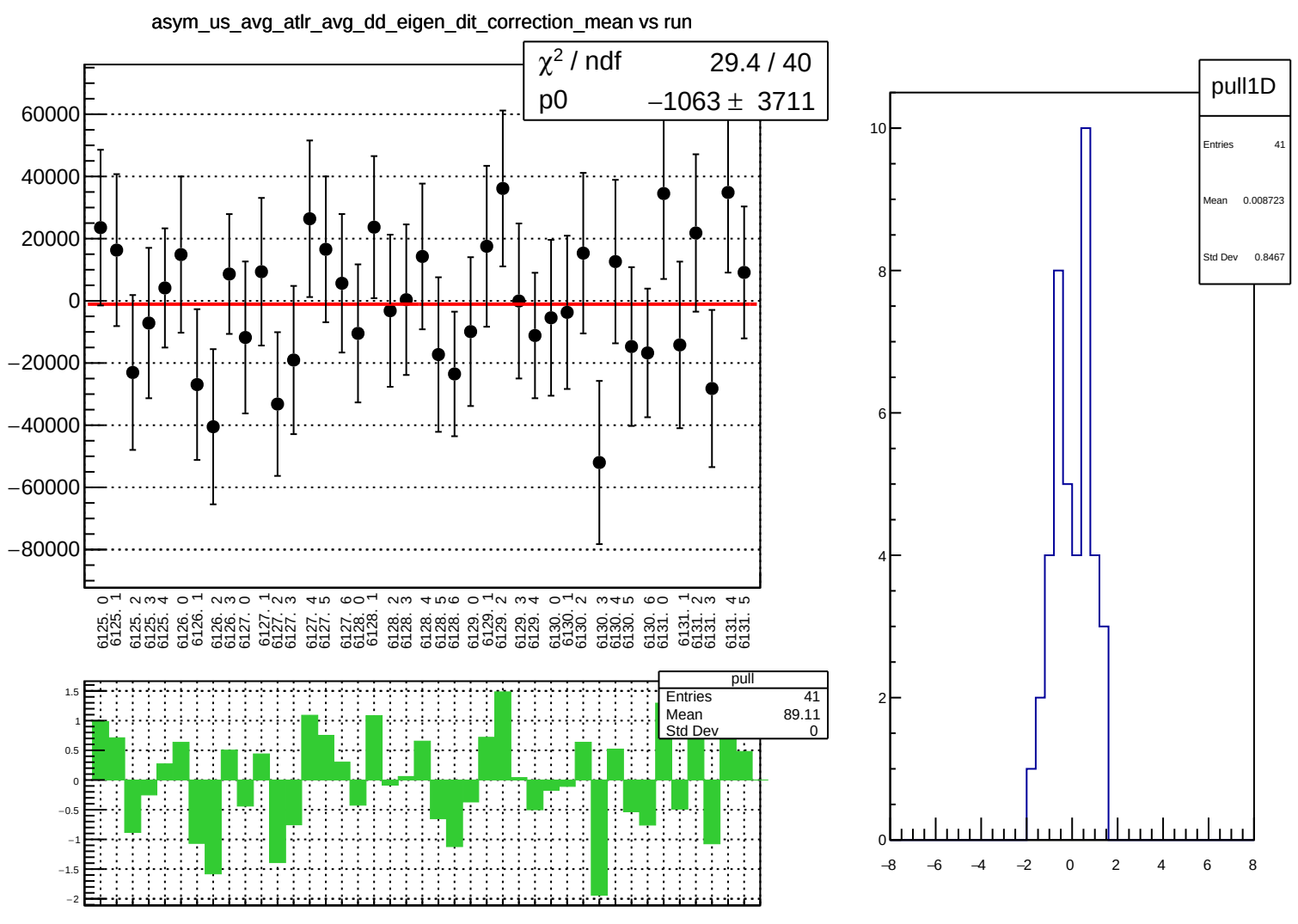

pull1D
Entries 41
Mean 0.008723
Std Dev 0.8467
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

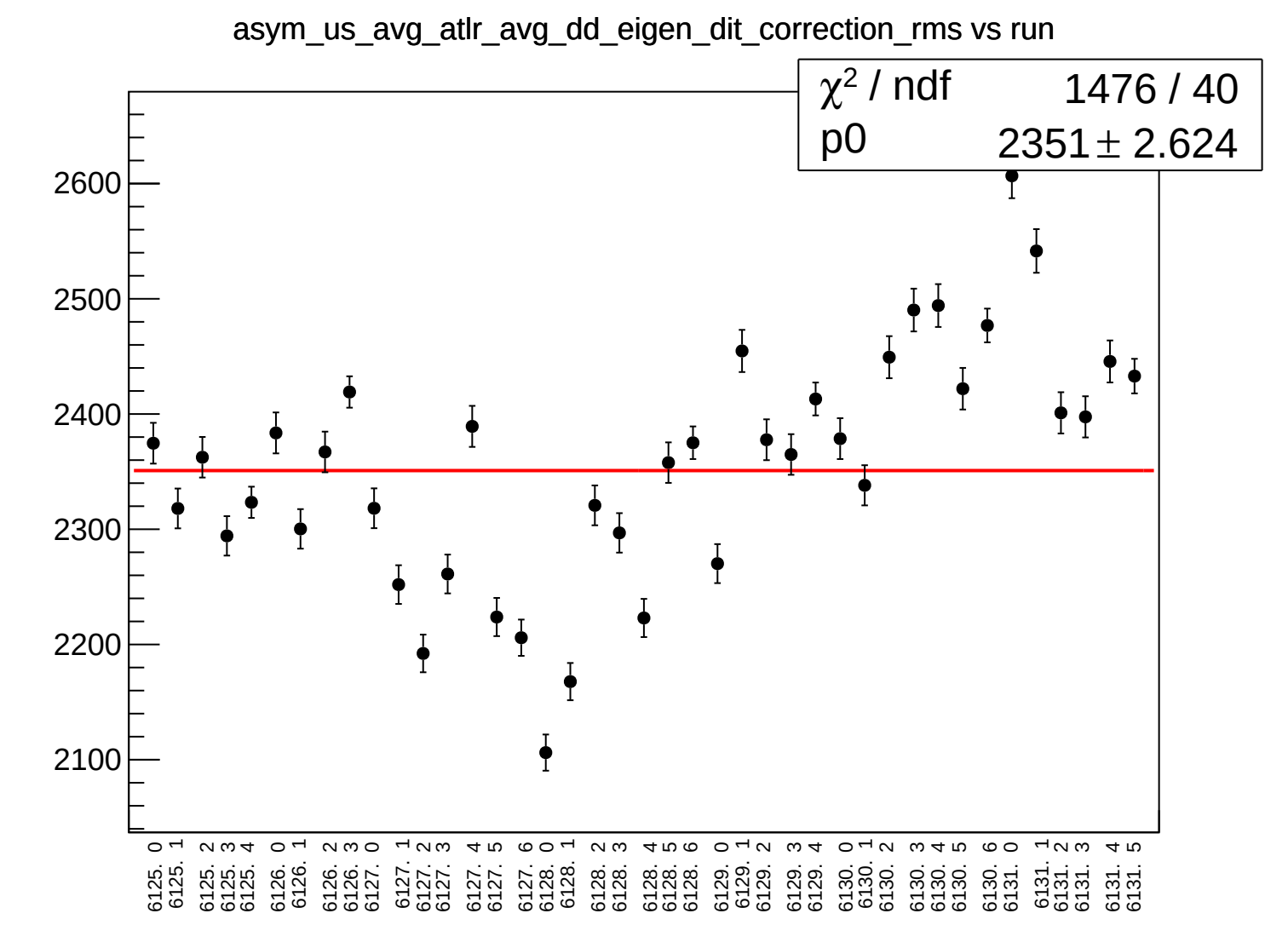

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 1476 / 40
p0 2351 ± 2.624
2600
2500
2400
2300
2200
2100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

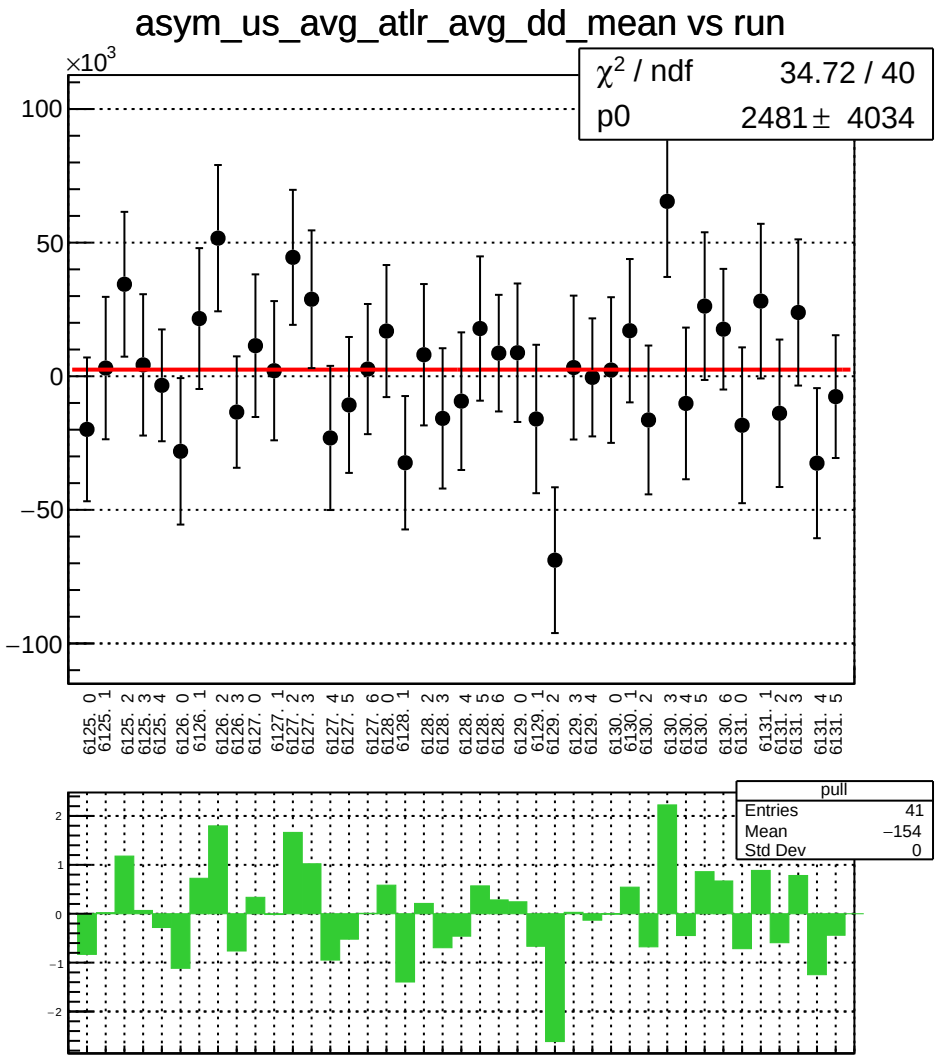

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 35.27 / 40
p0 1476 ± 1668
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 17.23
Std Dev 36.41
1
0
−1
−2
−3

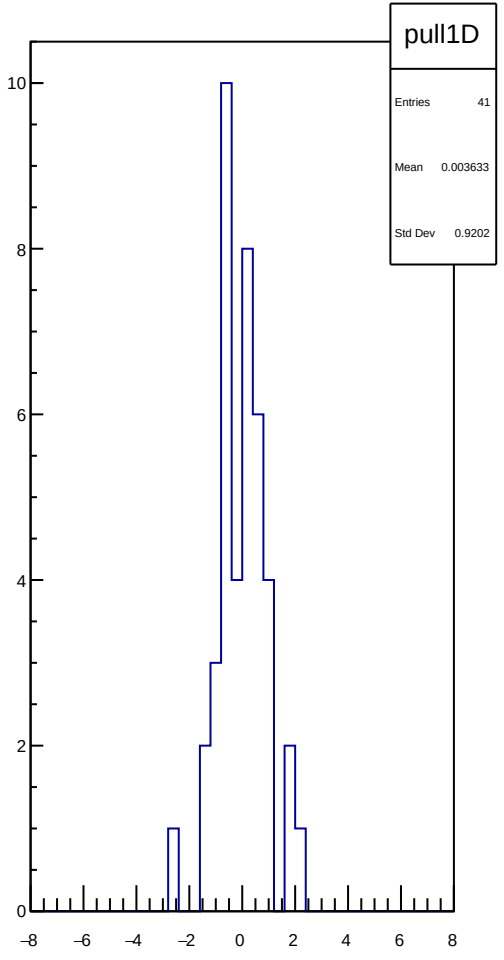

pull1D
Entries 41
Mean 0.02635
Std Dev 0.9271
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

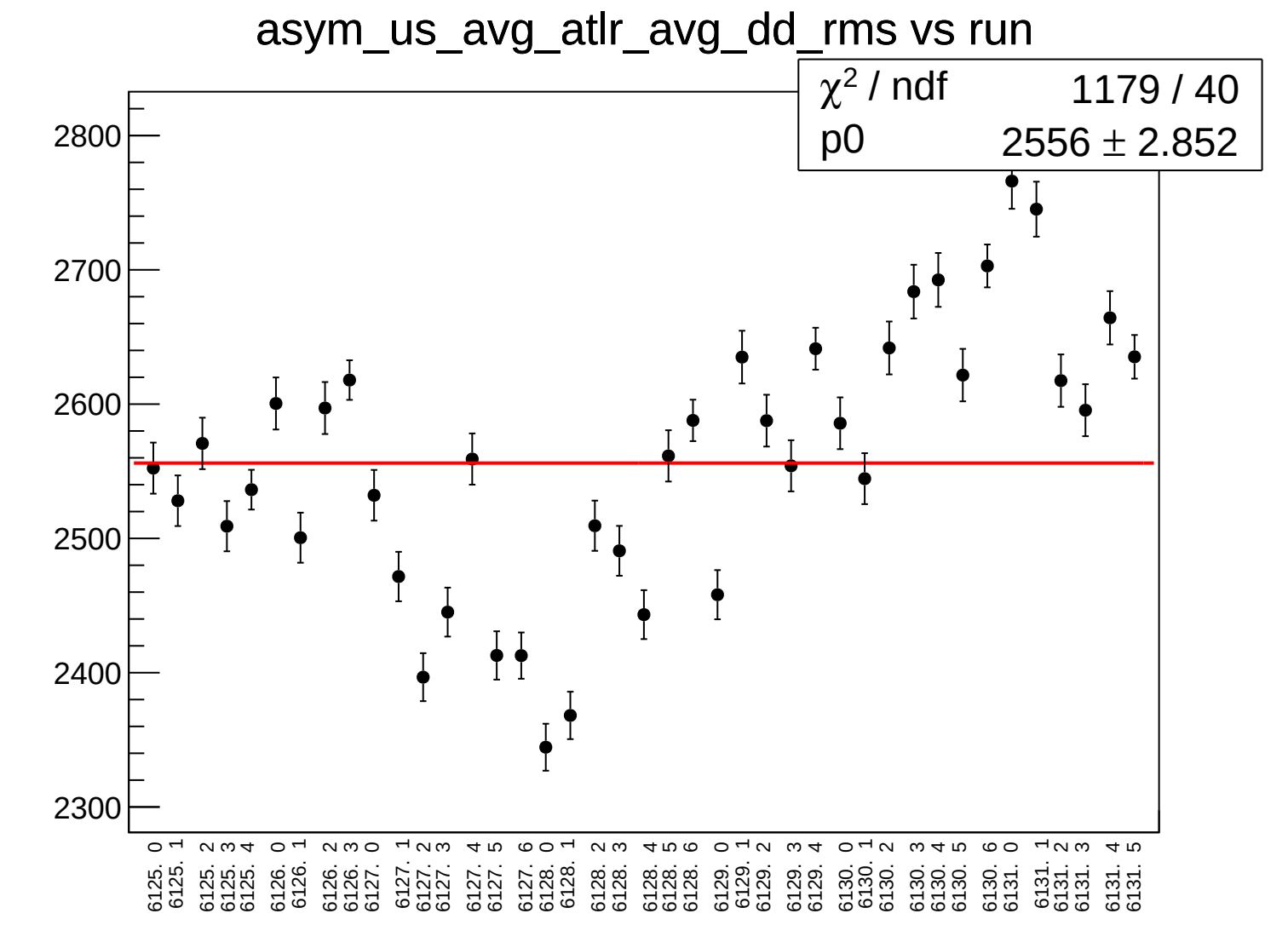

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 55.57 / 40
p0 1058 ± 1.179
1080
1070
1060
1050
1040
1030
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

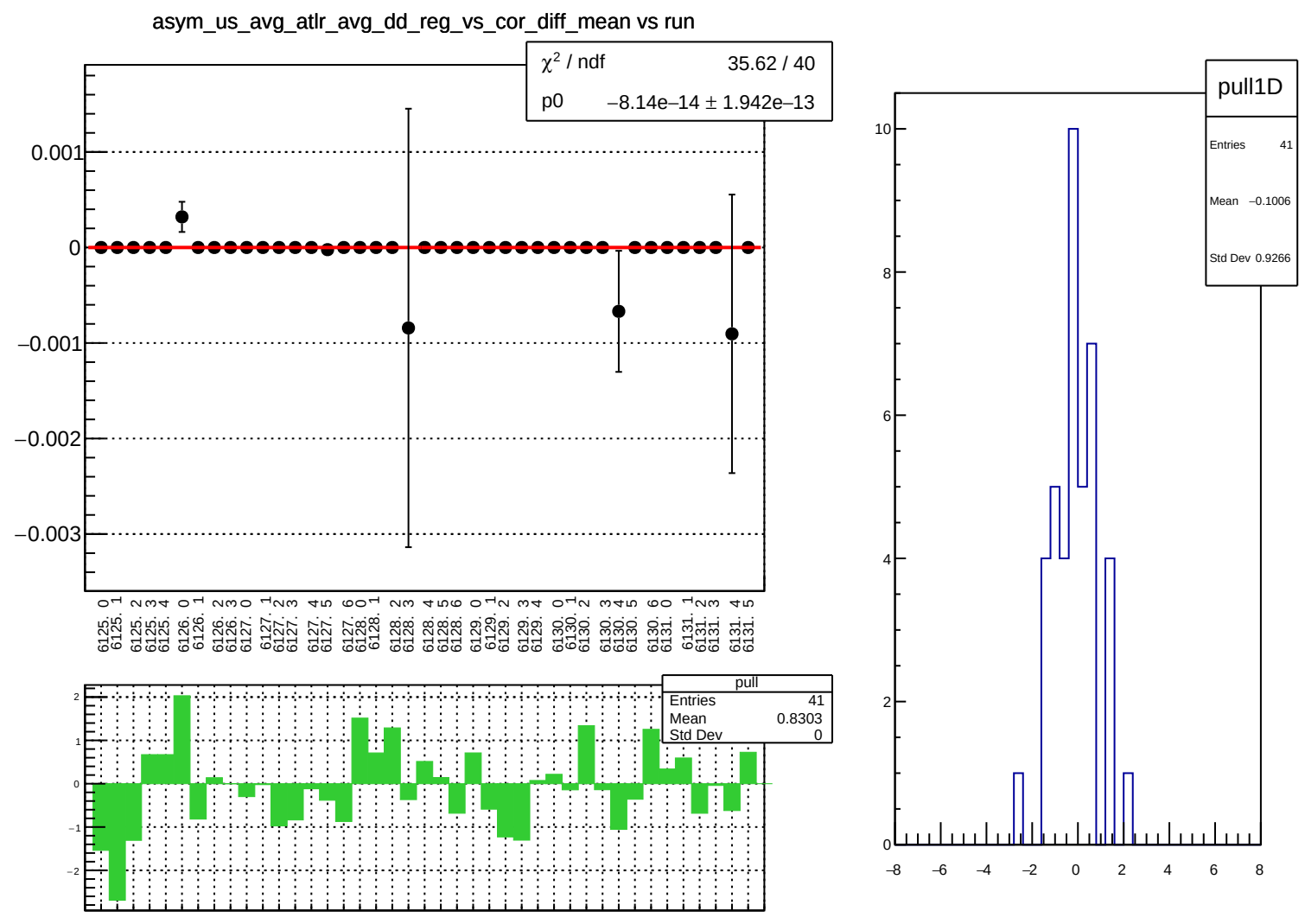

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 29.4 / 40
p0 −1063 ± 3711
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 89.11
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.008723
Std Dev 0.8467
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

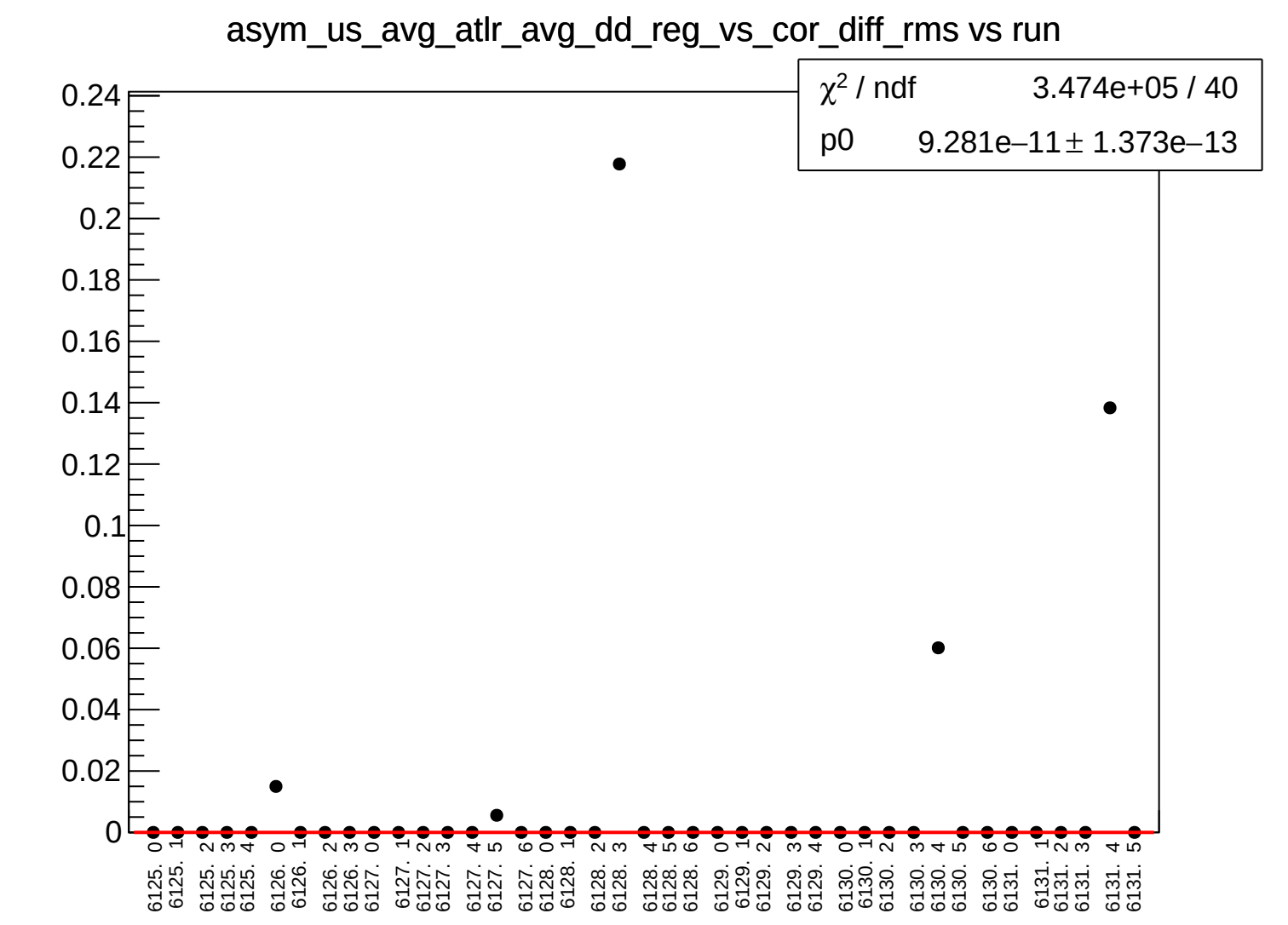

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1476 / 40
p0 2351 ± 2.624
2600
2500
2400
2300
2200
2100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

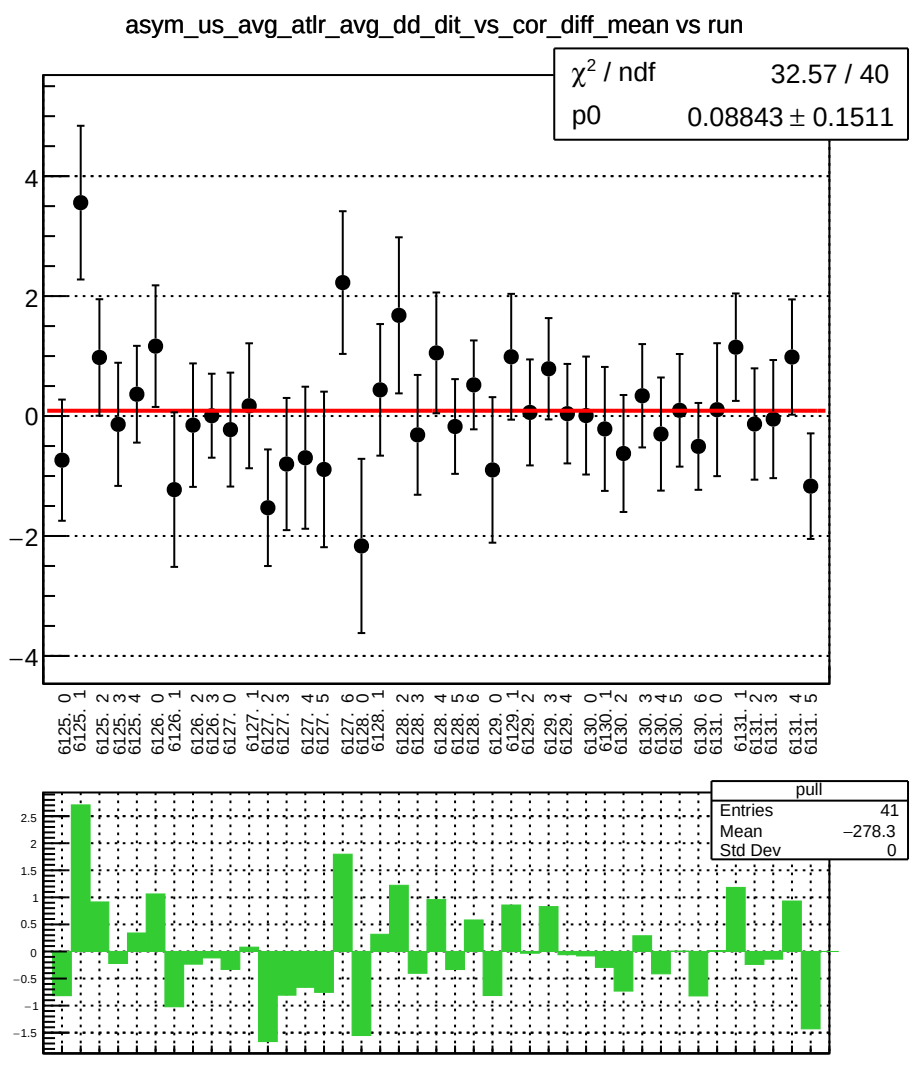

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 34.72 / 40
p0 2481 ± 4034
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −154
Std Dev 0
2
1
0
−1
−2

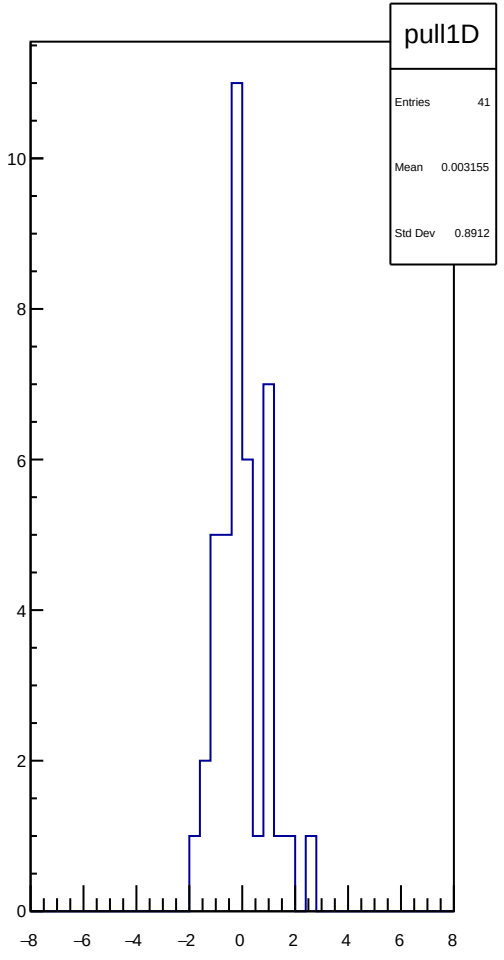

pull1D
Entries 41
Mean 0.003633
Std Dev 0.9202
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

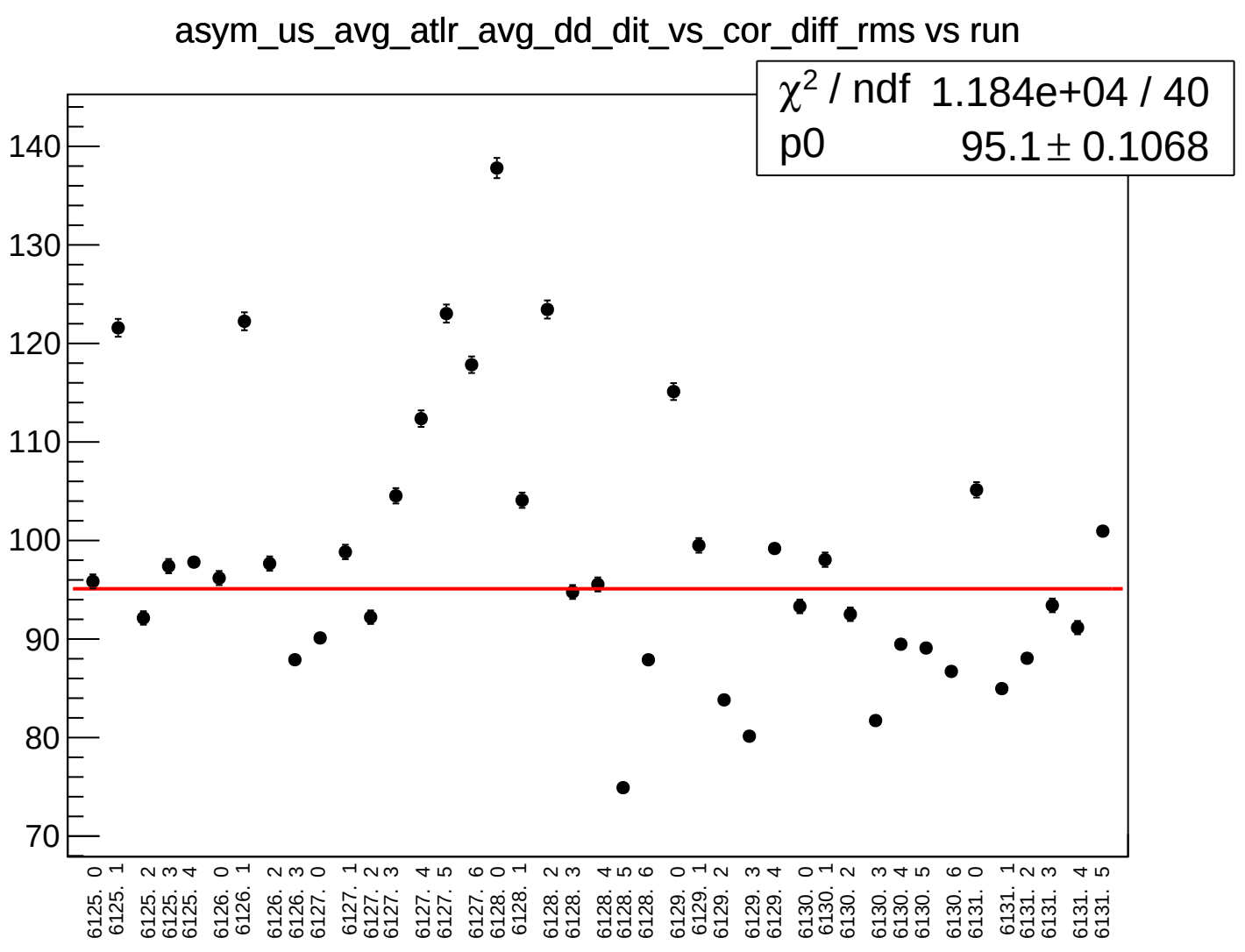

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1179 / 40
p0 2556 ± 2.852
2800
2700
2600
2500
2400
2300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

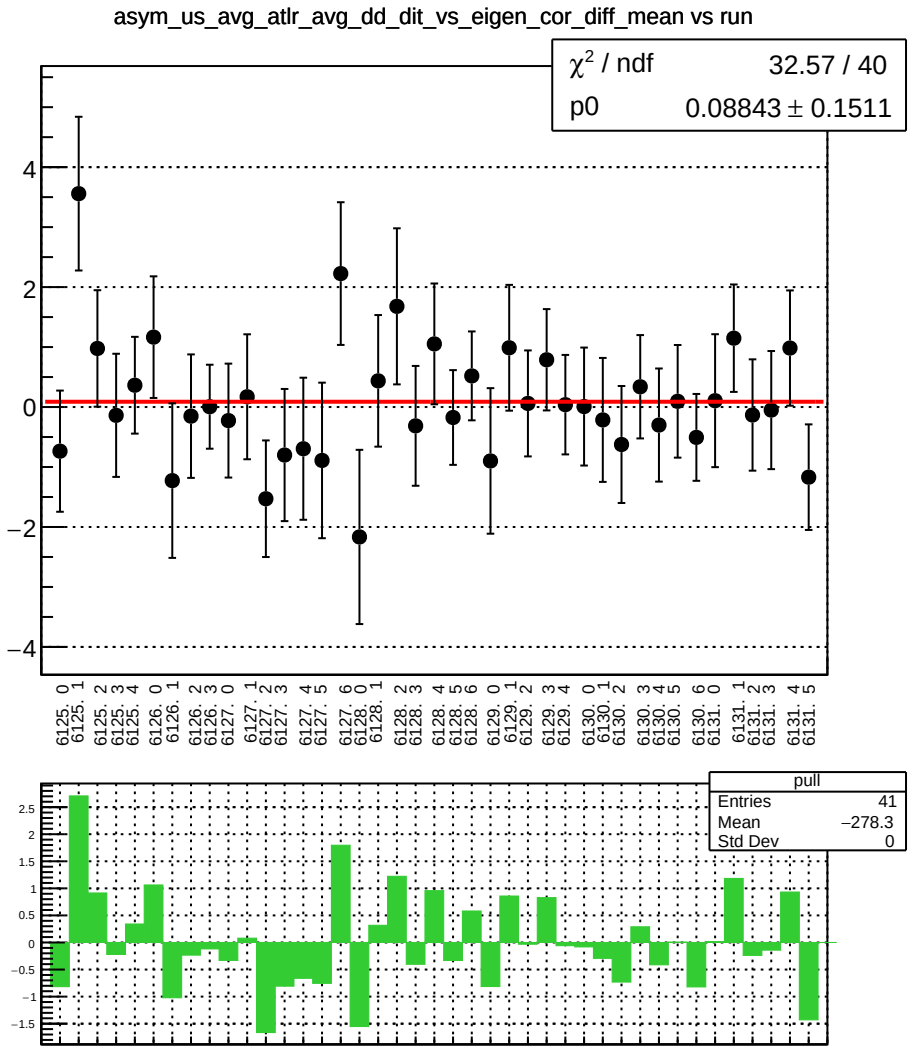

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 35.62 / 40
p0 −8.14e−14 ± 1.942e−13
0.001
0
−0.001
−0.002
−0.003
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 0.8303
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.1006
Std Dev 0.9266
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

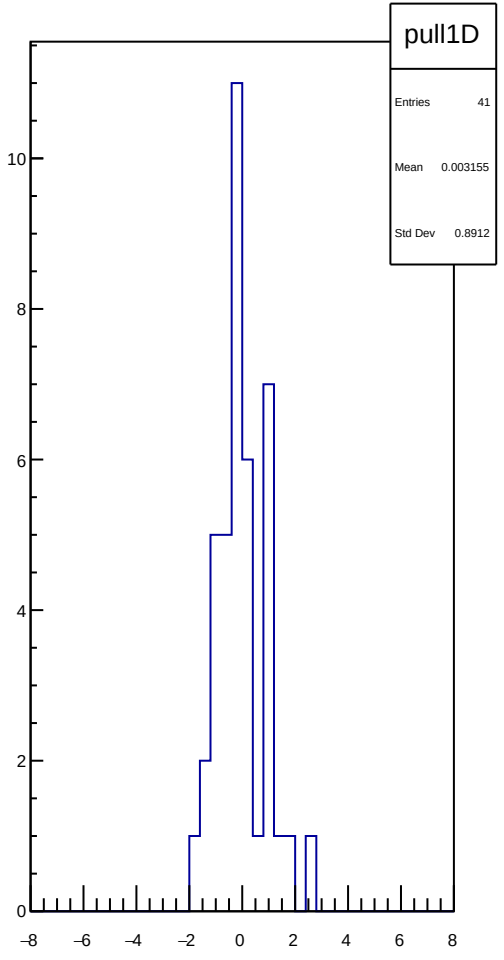

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.474e+05 / 40
p0 9.281e−11 ± 1.373e−13
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

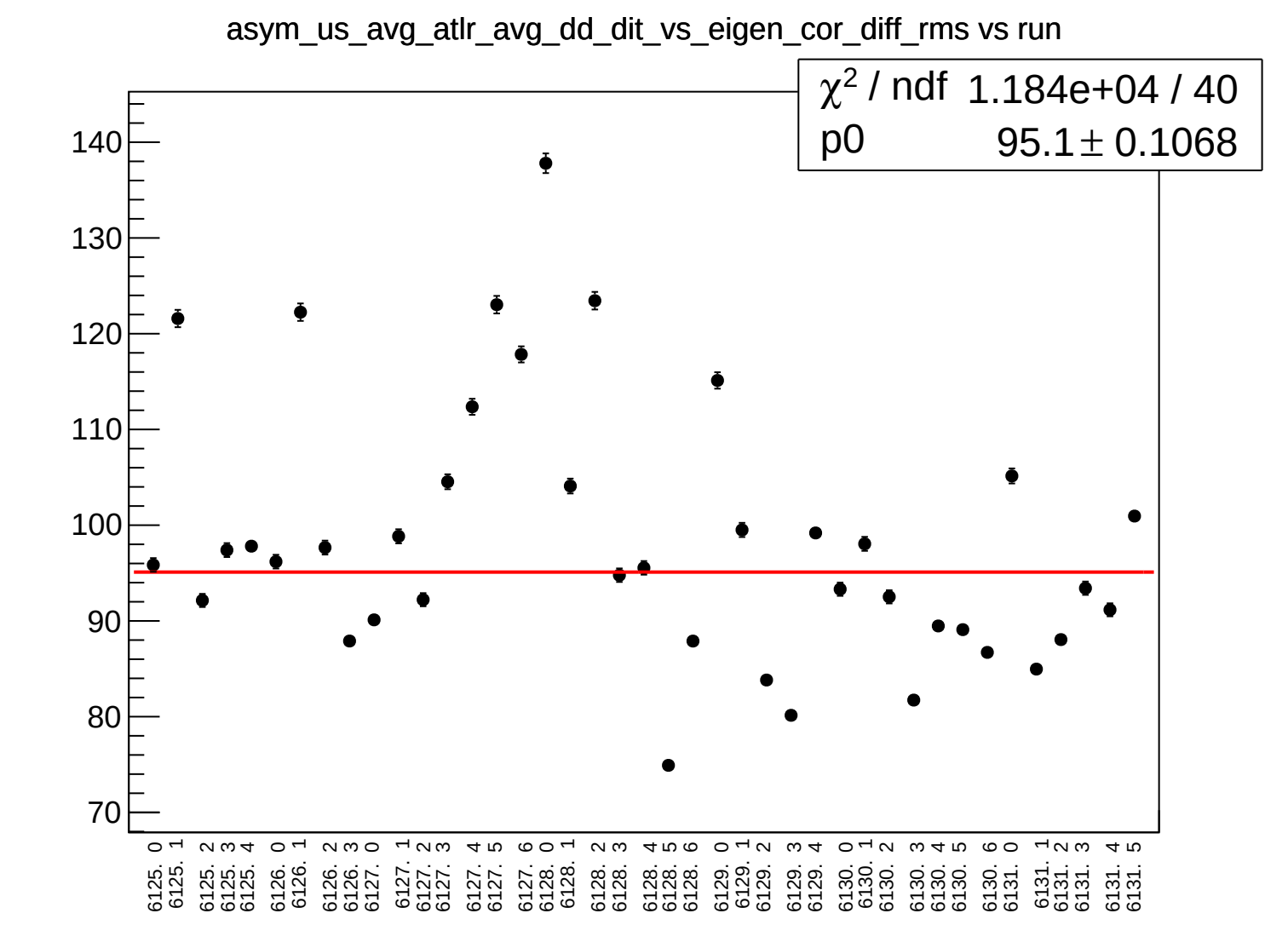

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 32.57 / 40
p0 0.08843 ± 0.1511
4
2
0
−2
−4
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −278.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

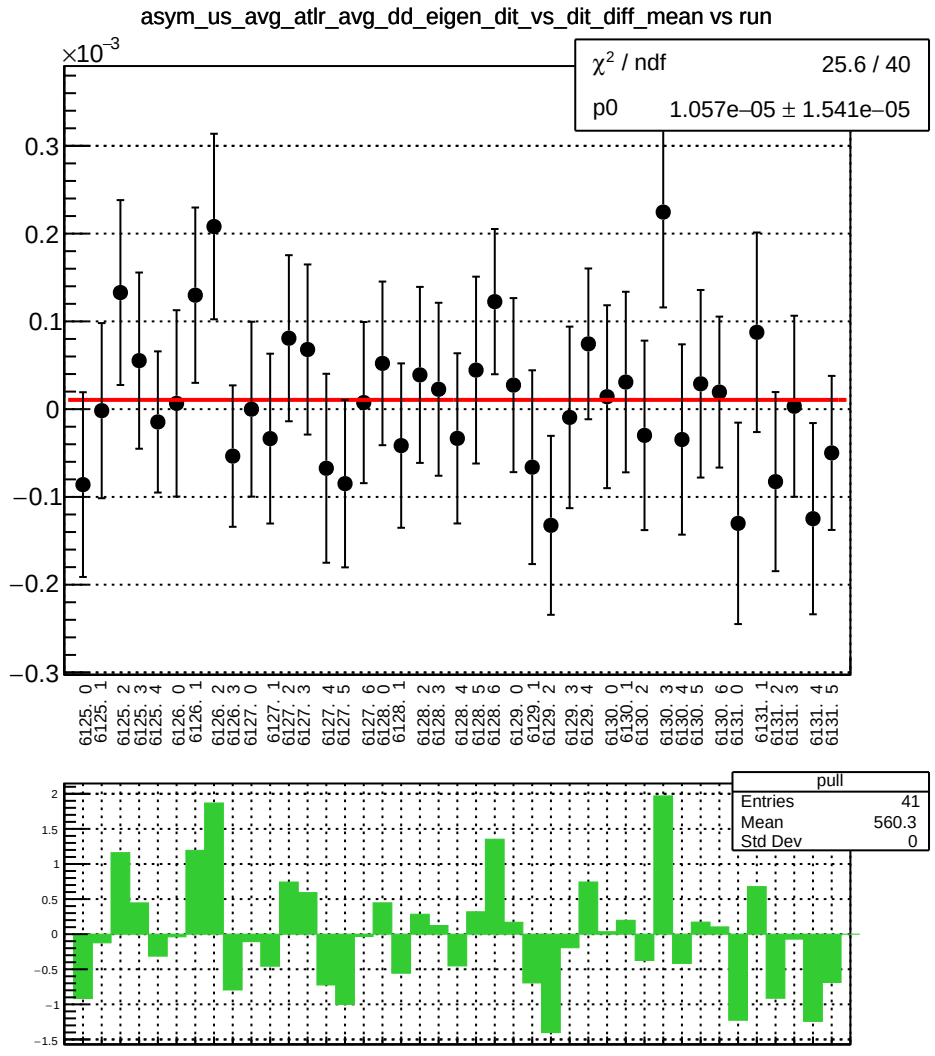

pull1D
Entries 41
Mean 0.003155
Std Dev 0.8912
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

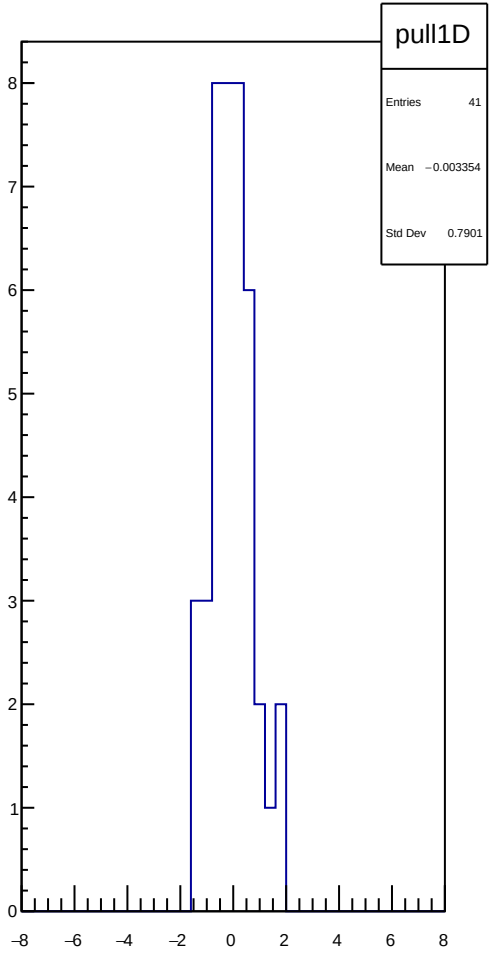

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.184e+04 / 40
p0 95.1 ± 0.1068
140
130
120
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

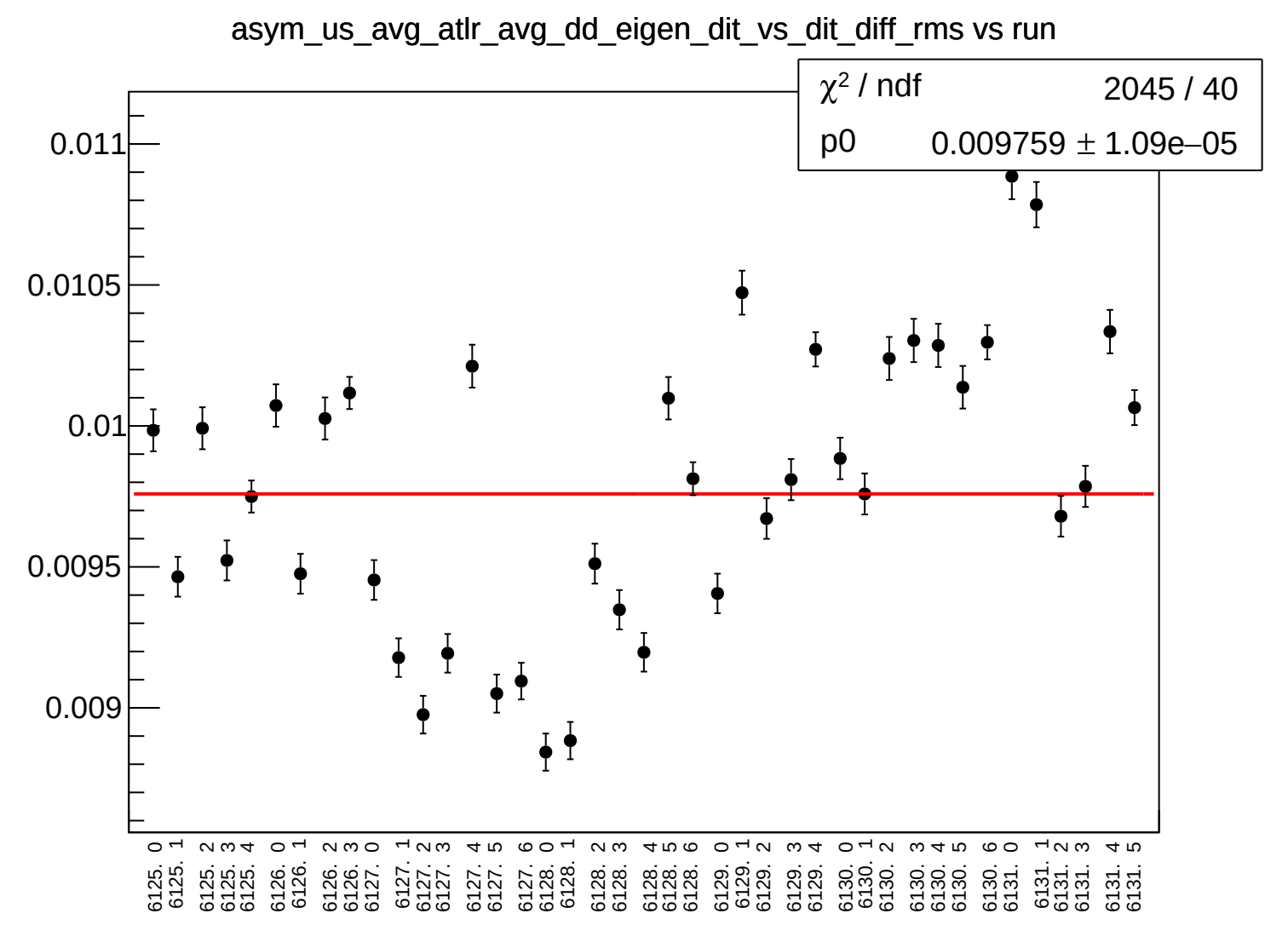

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.57 / 40
p0 0.08843 ± 0.1511
4
2
0
−2
−4
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −278.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

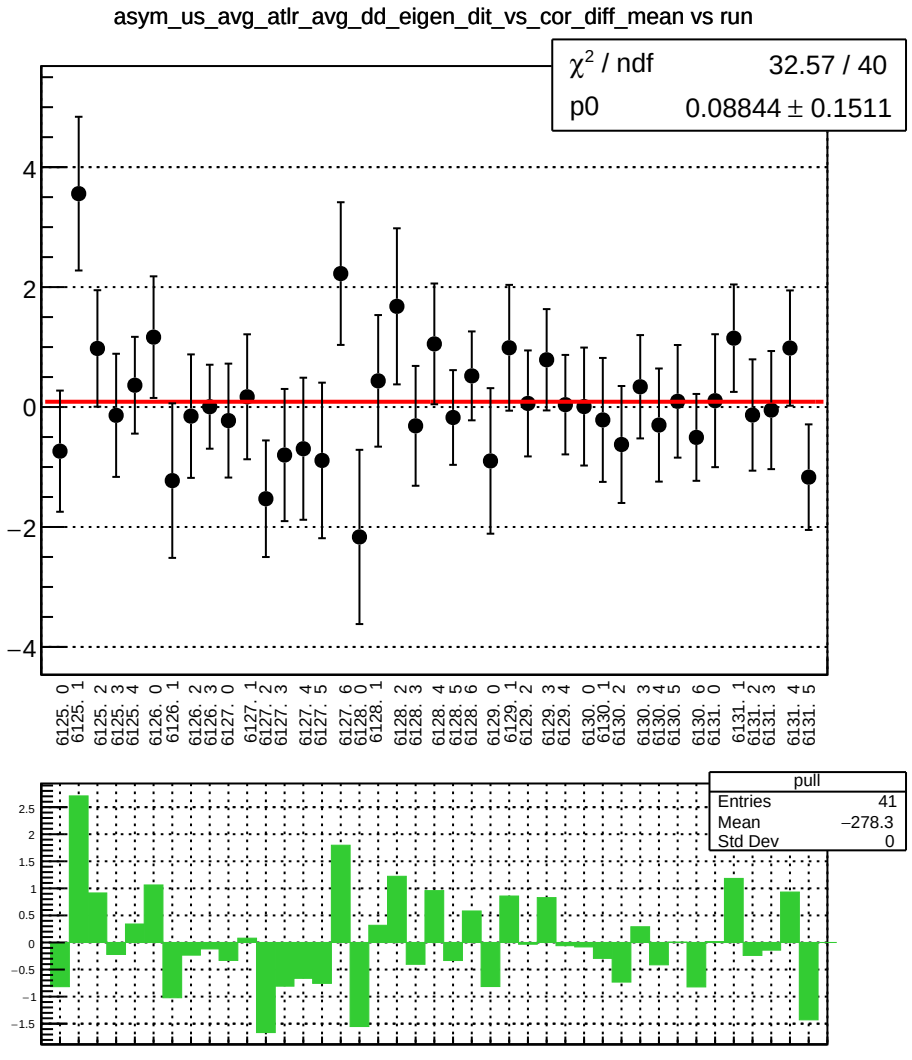

pull1D
Entries 41
Mean 0.003155
Std Dev 0.8912
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

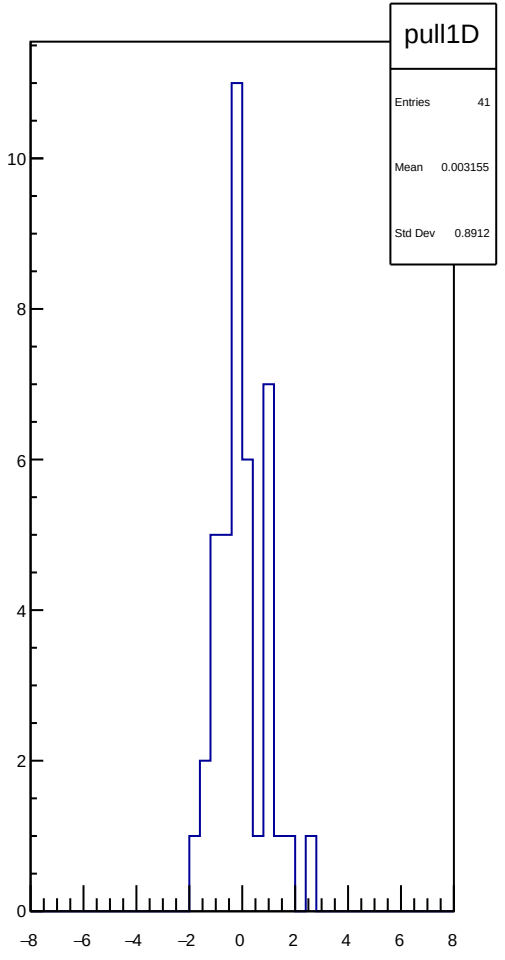

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.184e+04 / 40
p0 95.1 ± 0.1068
140
130
120
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

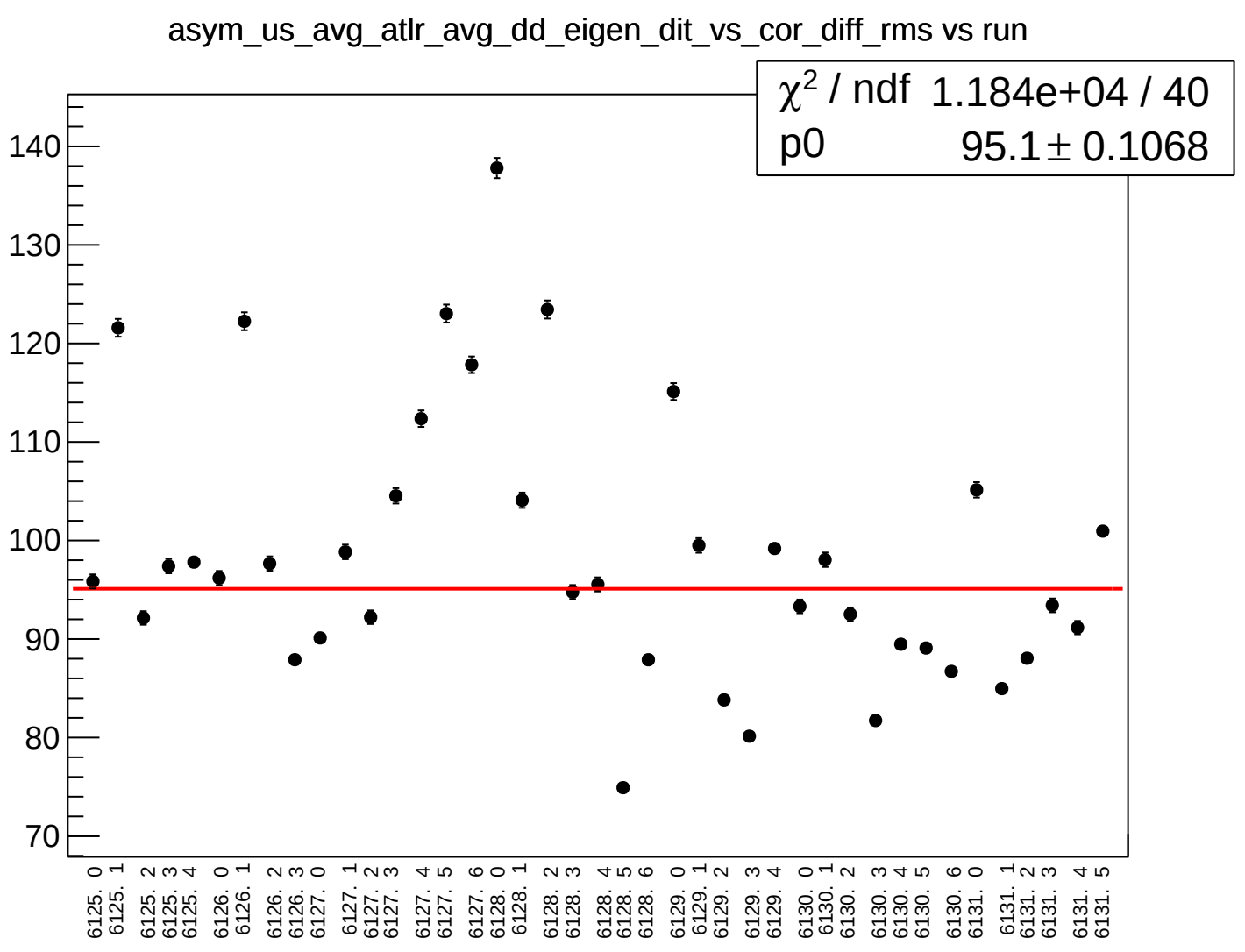

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 25.6 / 40
p0 1.057e−05 ± 1.541e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 560.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

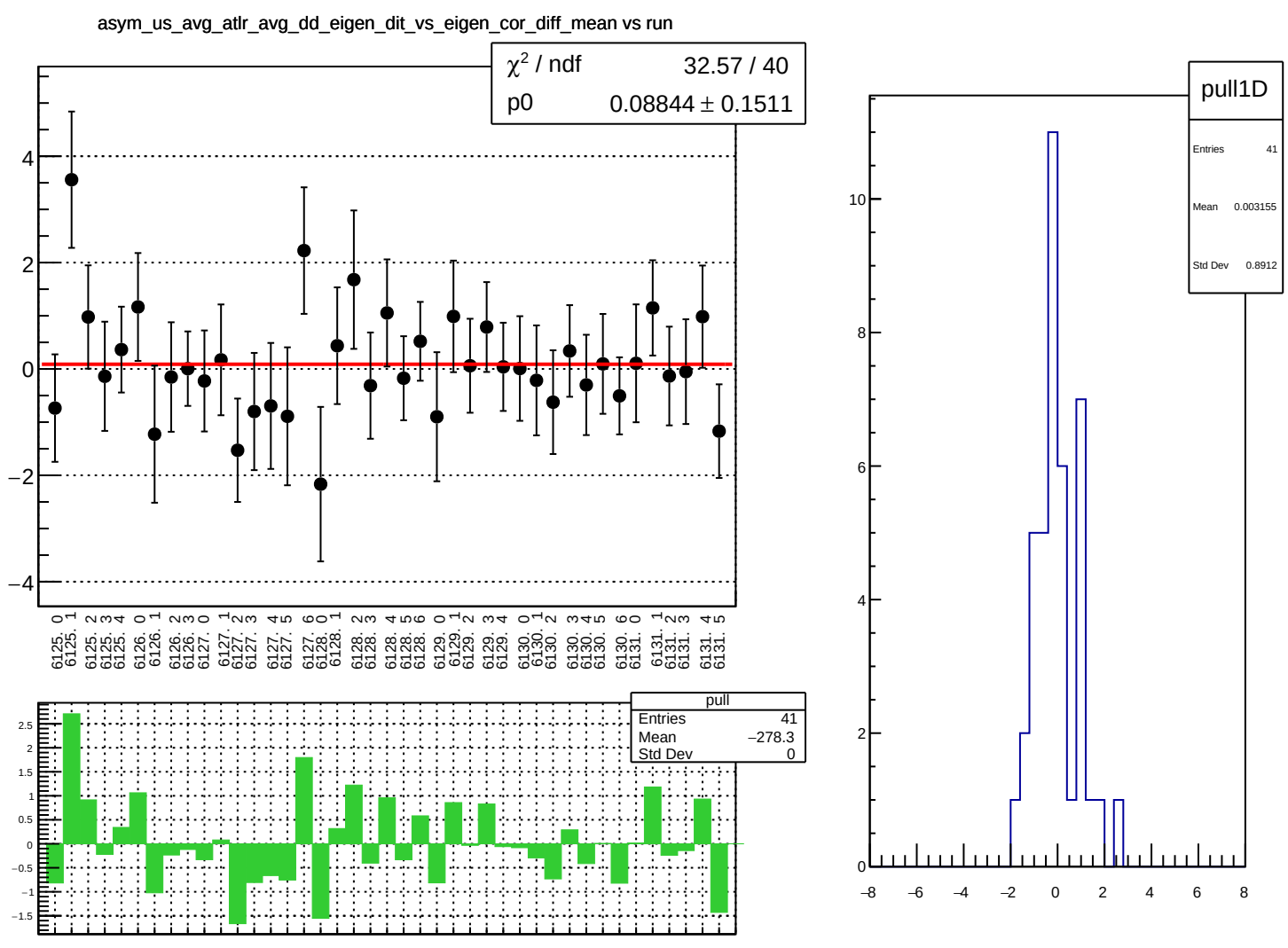

pull1D
Entries 41
Mean −0.003354
Std Dev 0.7901
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

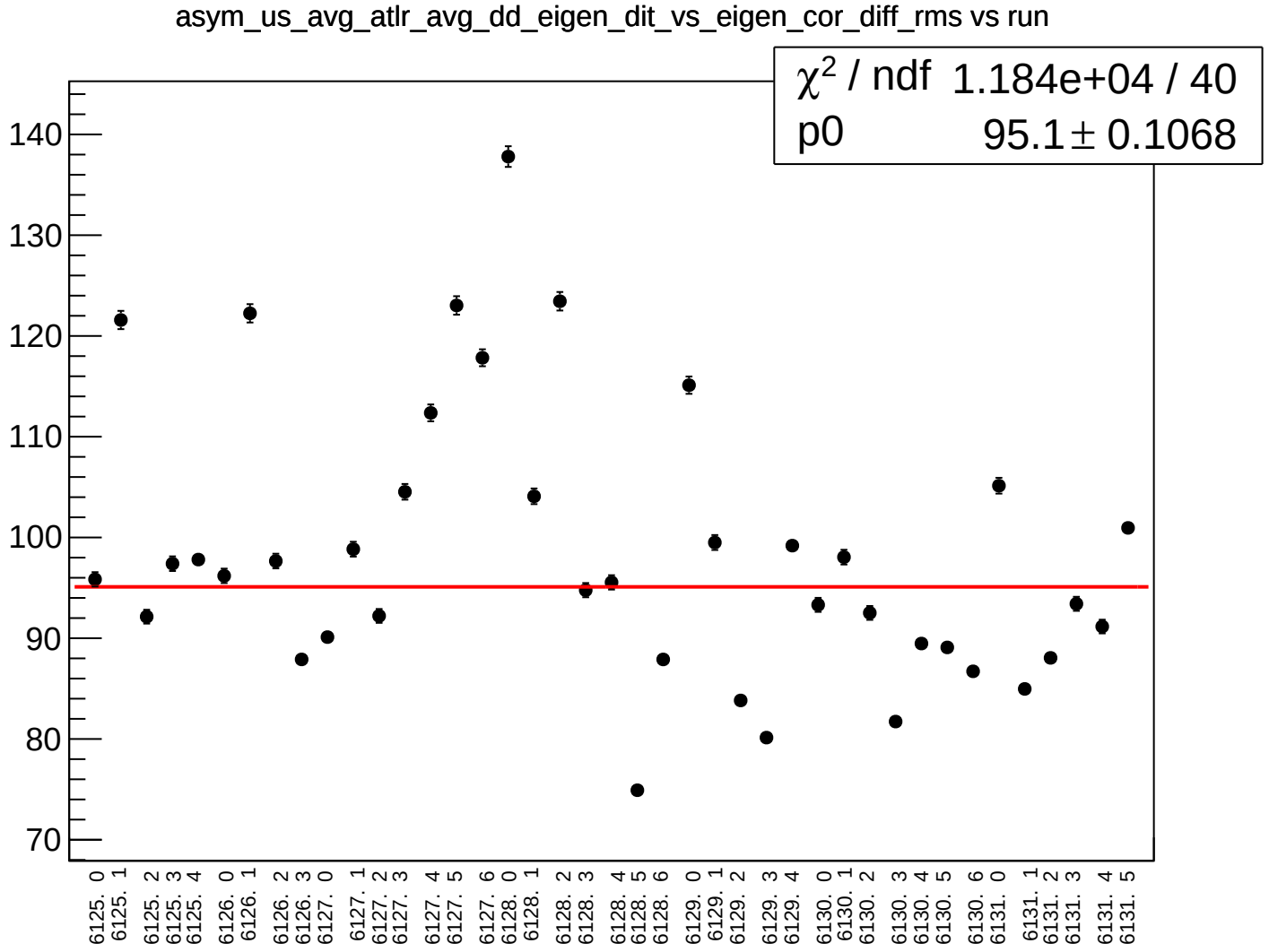

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2045 / 40
p0 0.009759 ± 1.09e–05
0.011
0.0105
0.01
0.0095
0.009
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

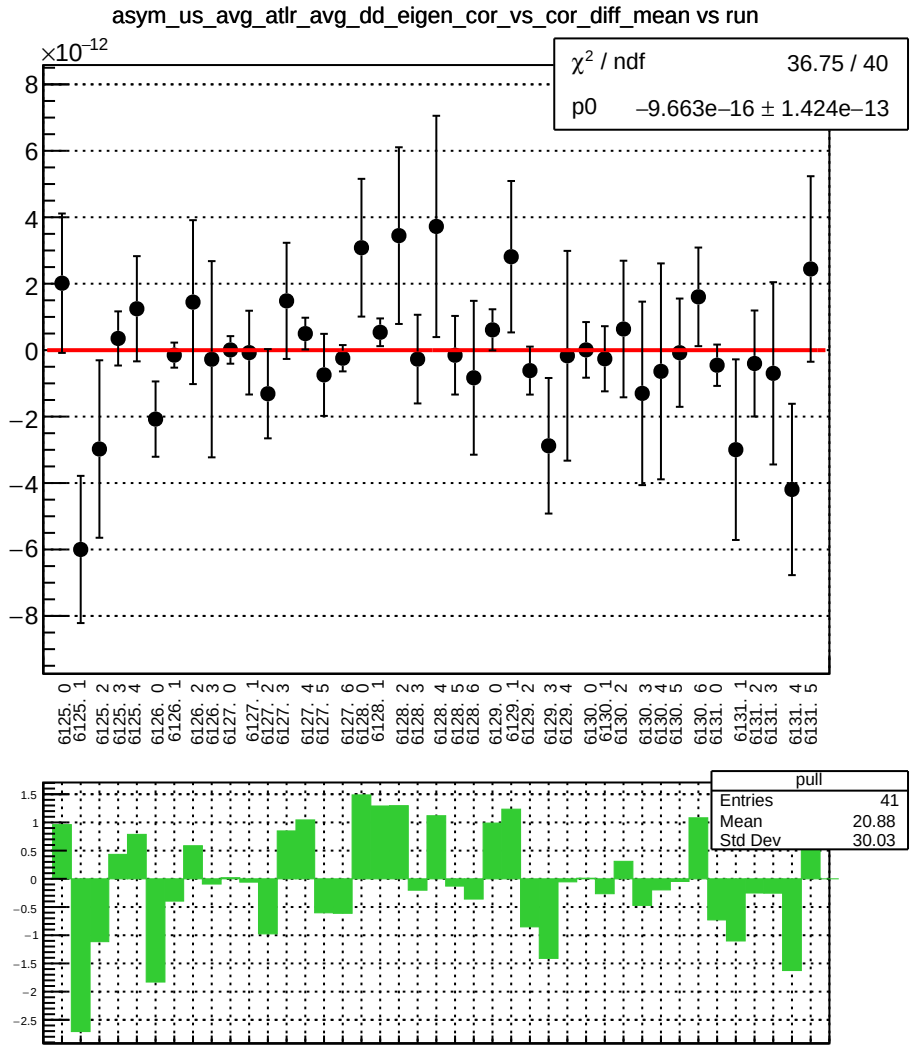

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 32.57 / 40
p0 0.08844 ± 0.1511
pull
Entries 41
Mean −278.3
Std Dev 0

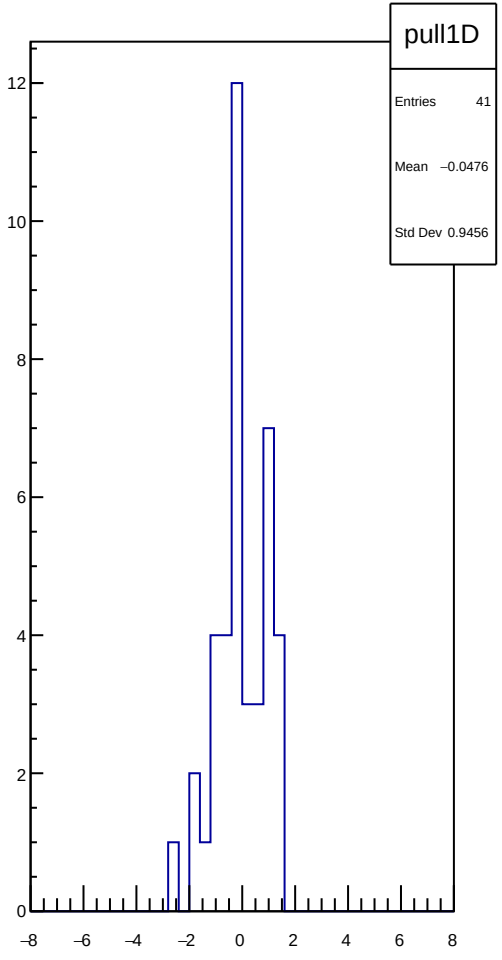

pull1D
Entries 41
Mean 0.003155
Std Dev 0.8912

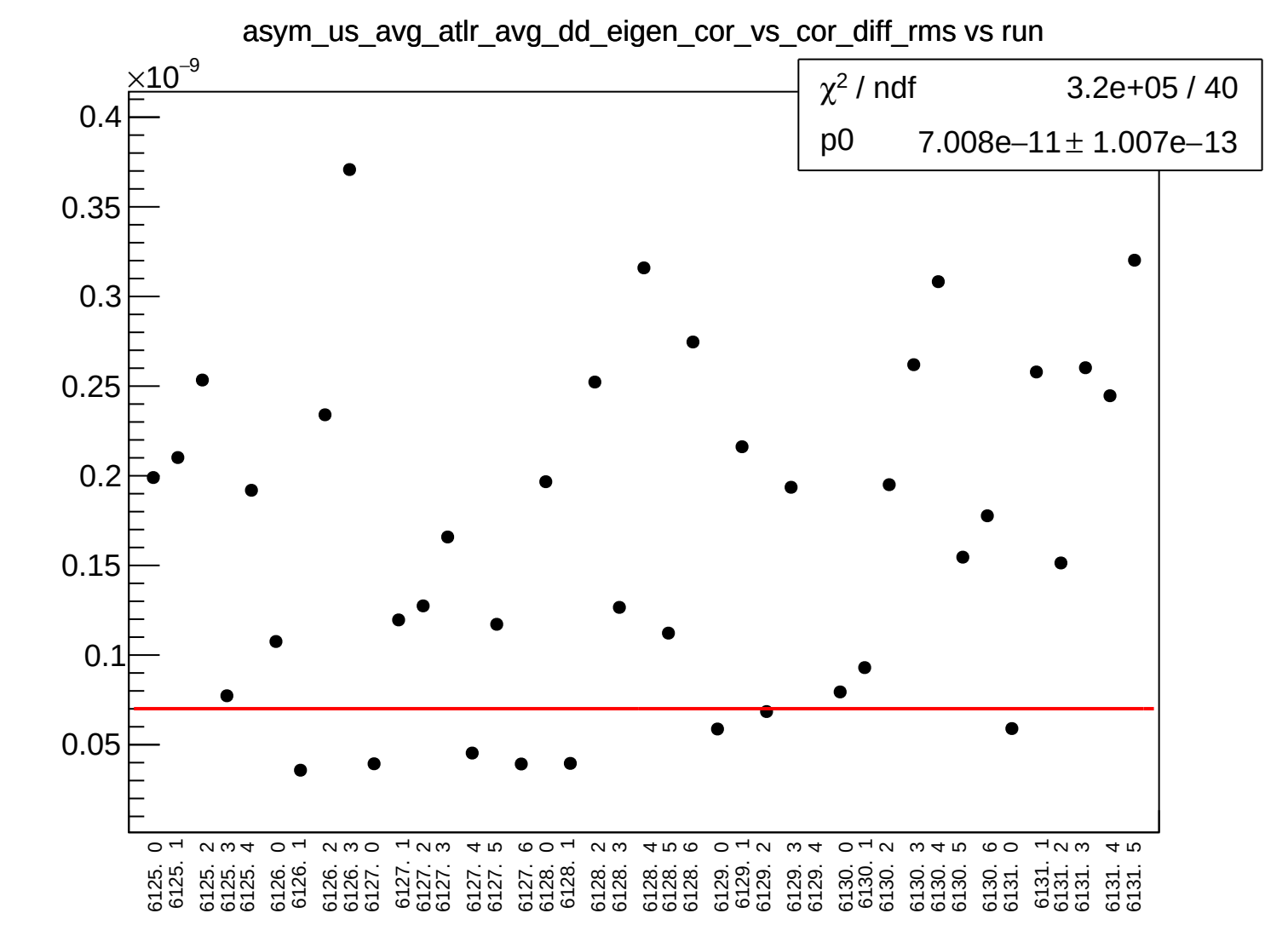

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.184e+04 / 40
p0 95.1 ± 0.1068
140
130
120
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

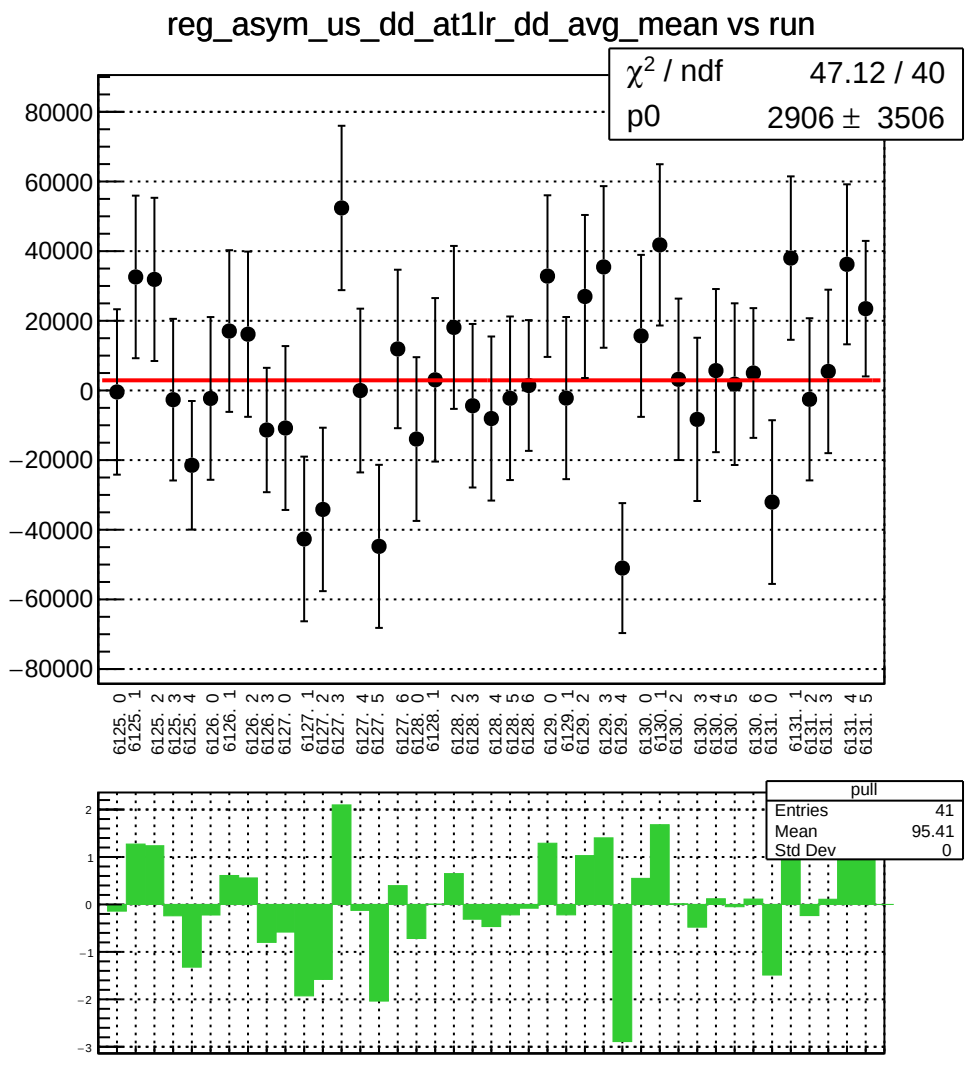

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.57 / 40
p0 0.08844 ± 0.1511
pull
Entries 41
Mean −278.3
Std Dev 0
pull1D
Entries 41
Mean 0.003155
Std Dev 0.8912

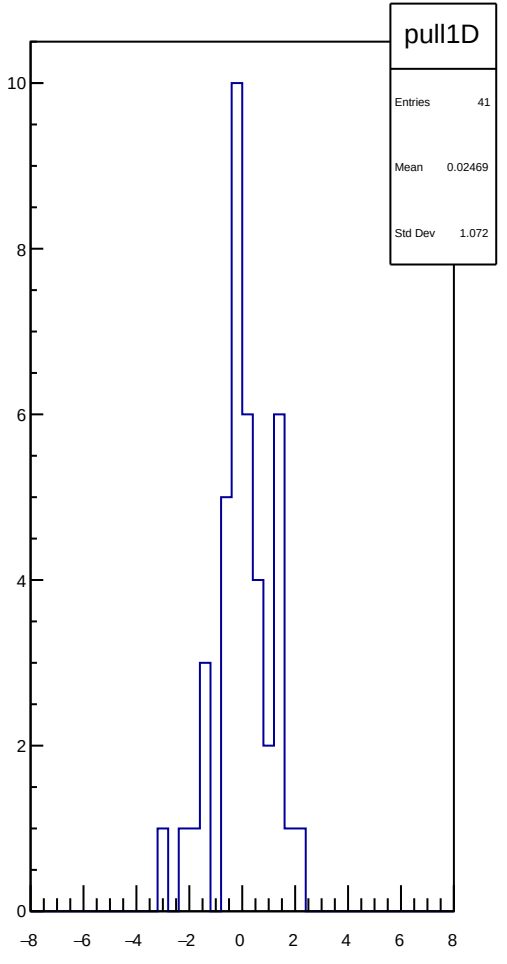

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.184e+04 / 40
p0 95.1 ± 0.1068
140
130
120
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

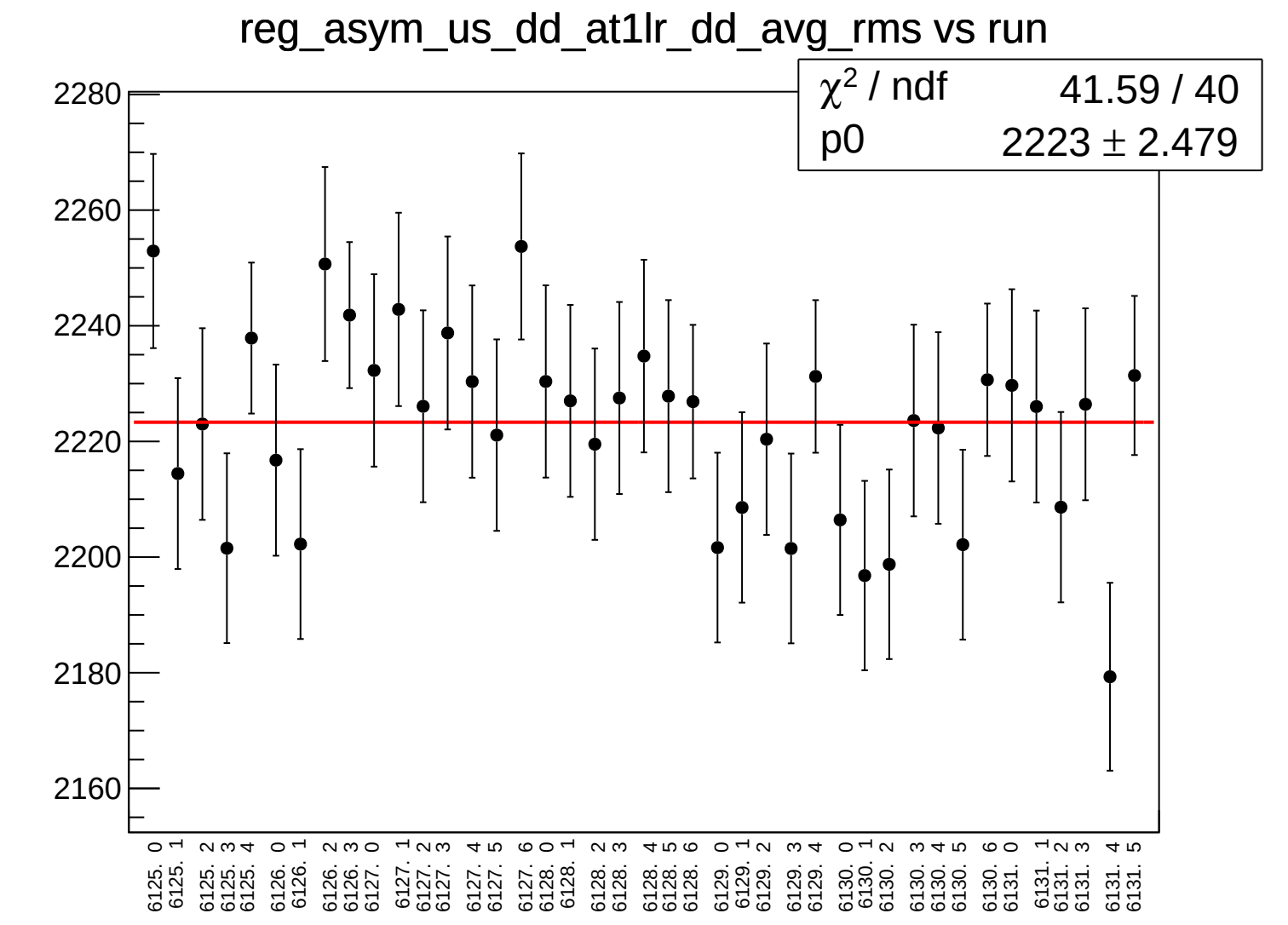

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 36.75 / 40
p0 −9.663e−16 ± 1.424e−13
pull
Entries 41
Mean 20.88
Std Dev 30.03

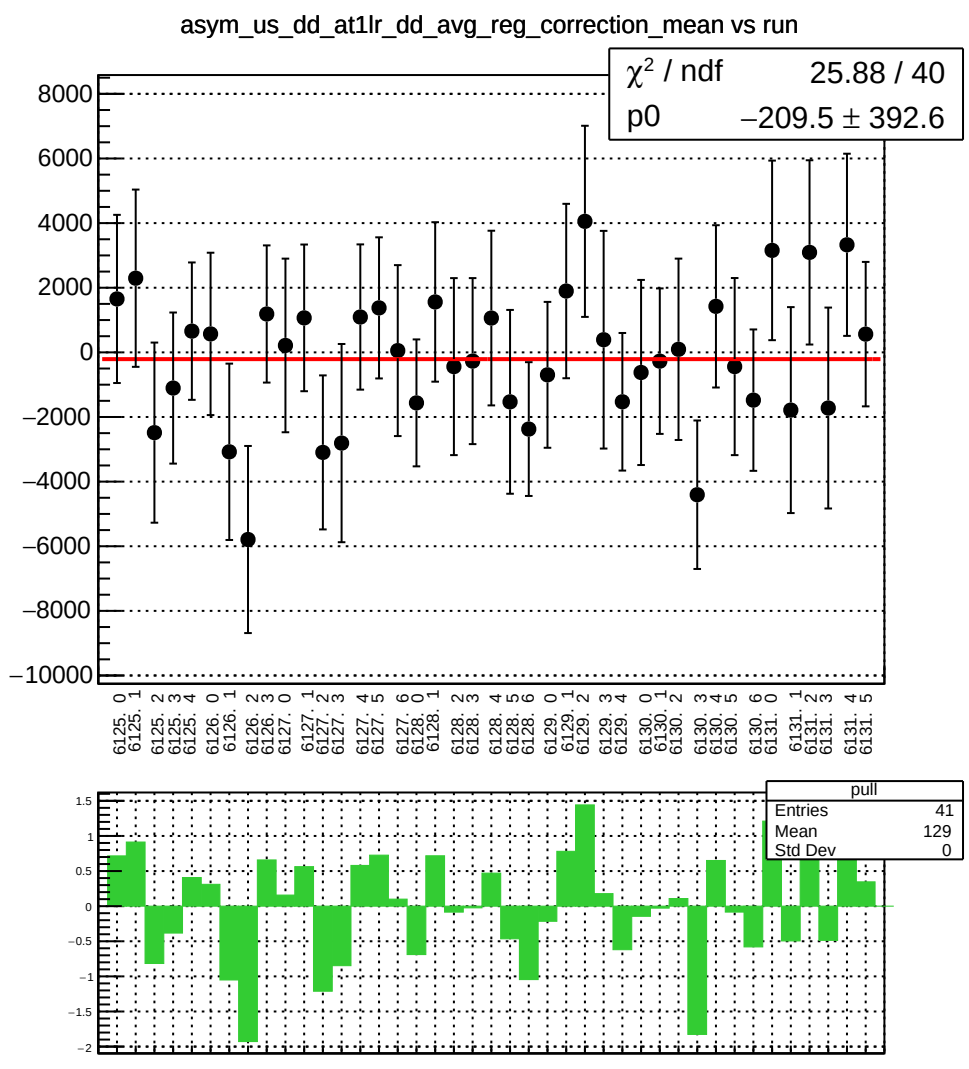

pull1D
Entries 41
Mean −0.0476
Std Dev 0.9456

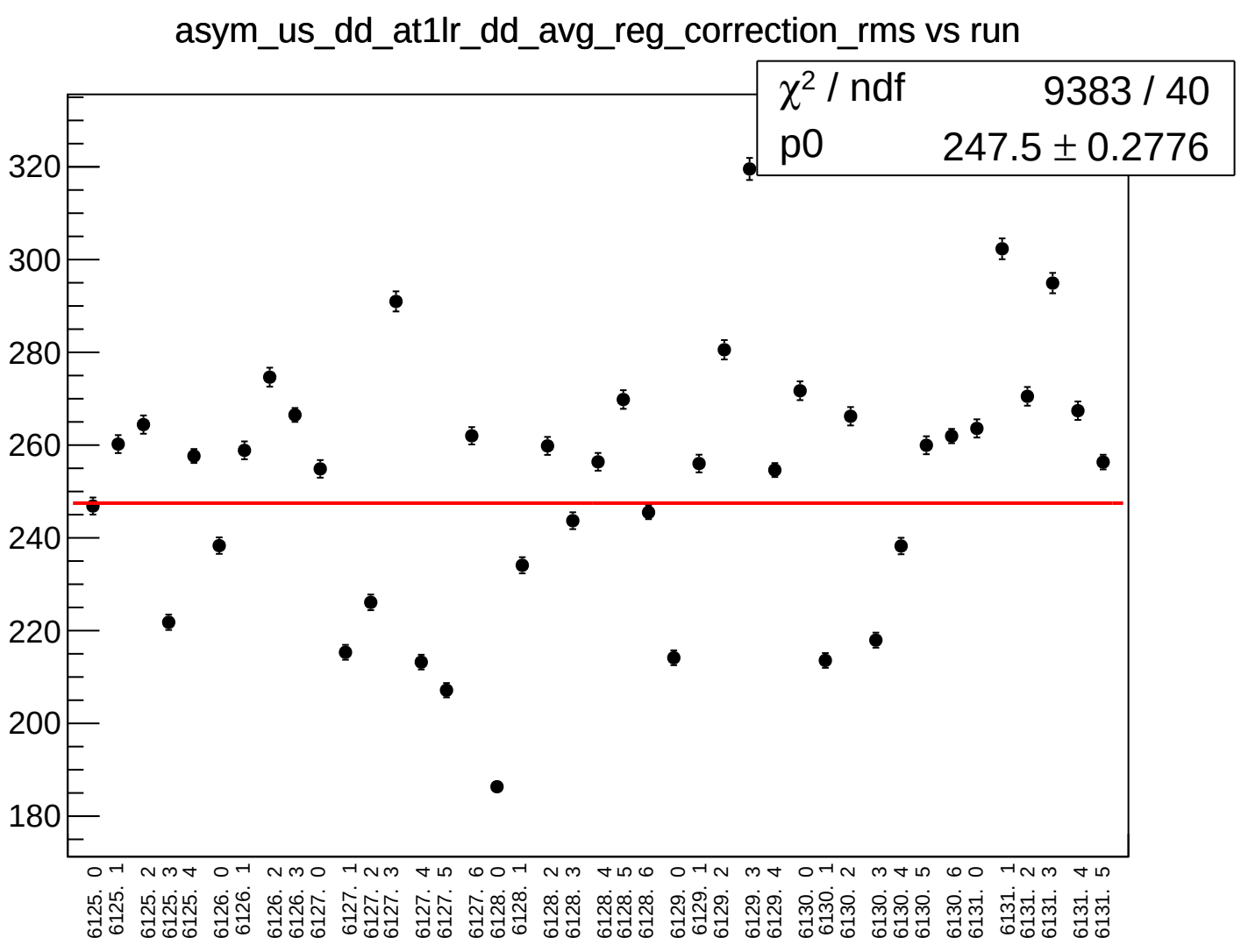

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.2e+05 / 40
p0 7.008e−11 ± 1.007e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

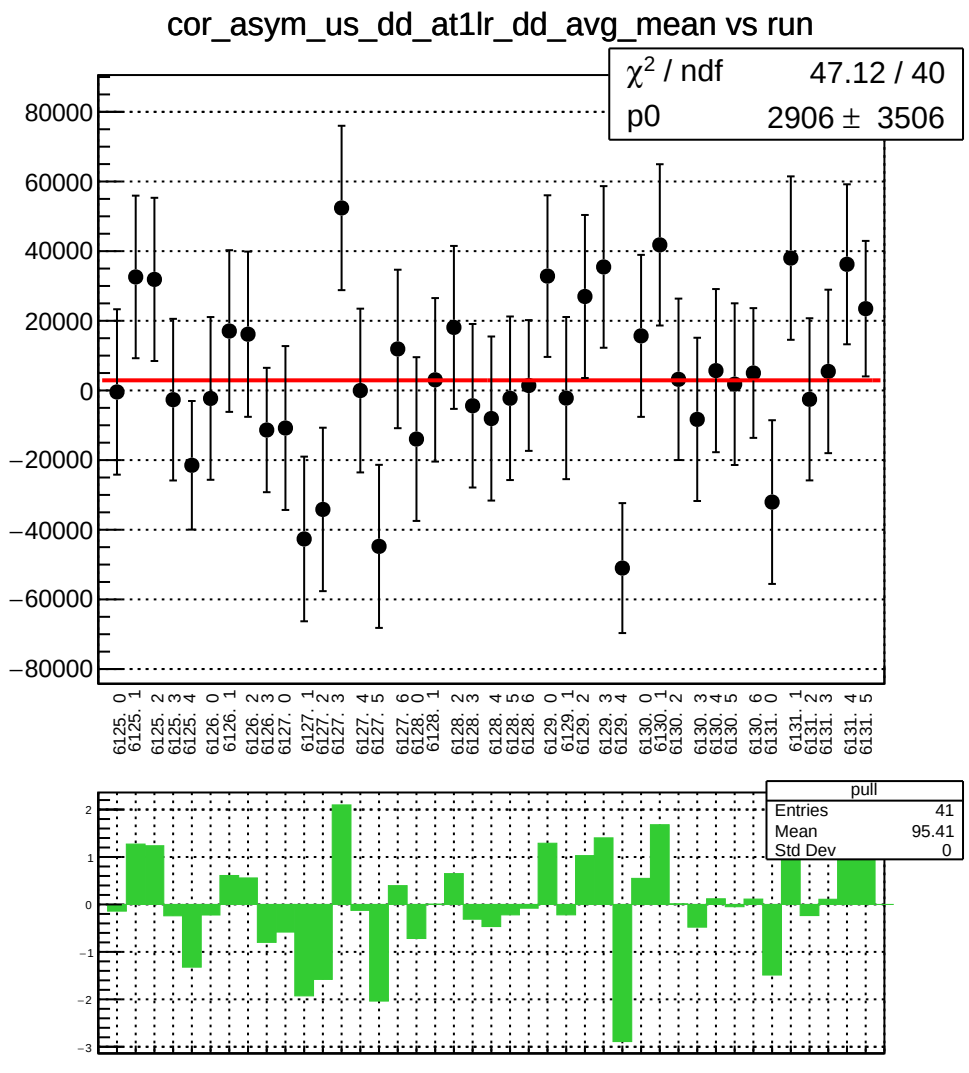

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 47.12 / 40
p0 2906 ± 3506
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 95.41
Std Dev 0
2
1
0
−1
−2
−3

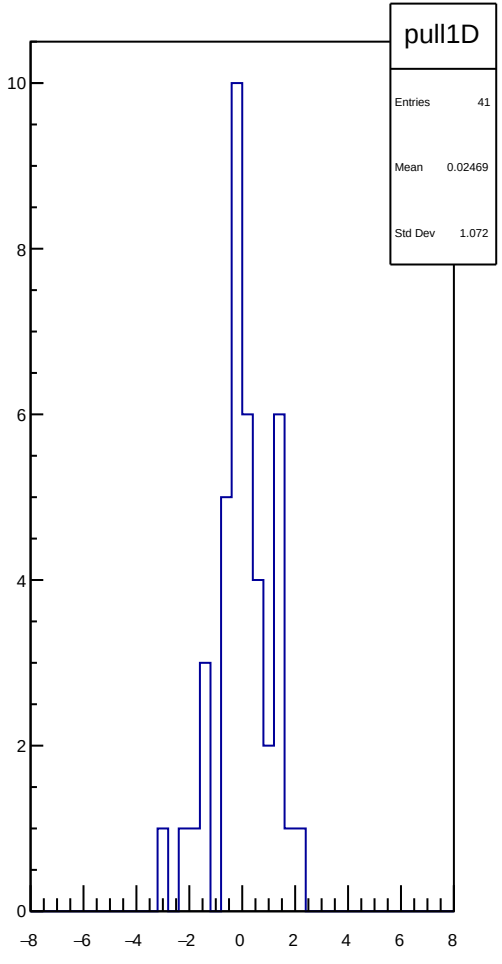

pull1D
Entries 41
Mean 0.02469
Std Dev 1.072
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

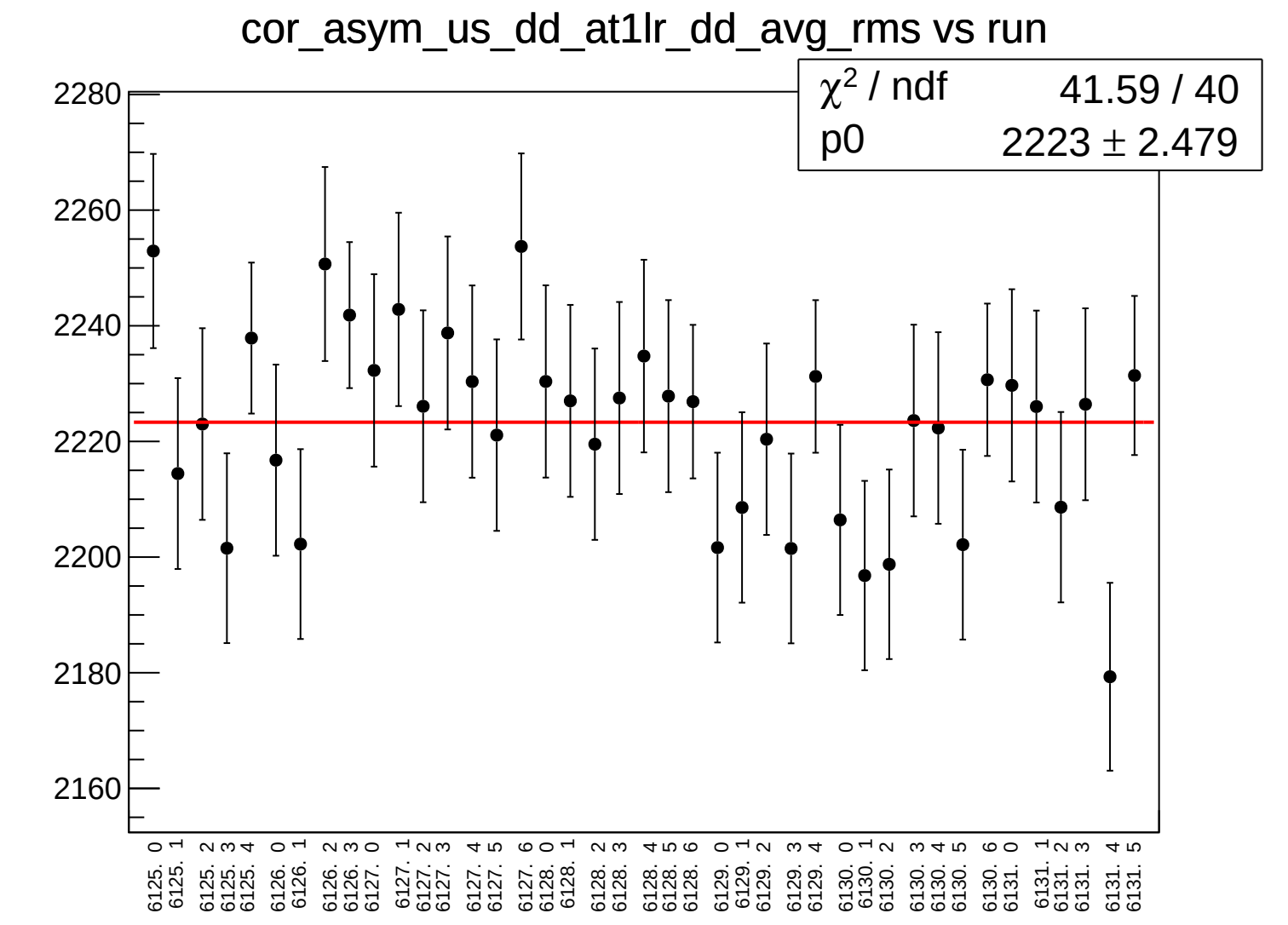

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 41.59 / 40
p0 2223 ± 2.479
2280
2260
2240
2220
2200
2180
2160
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

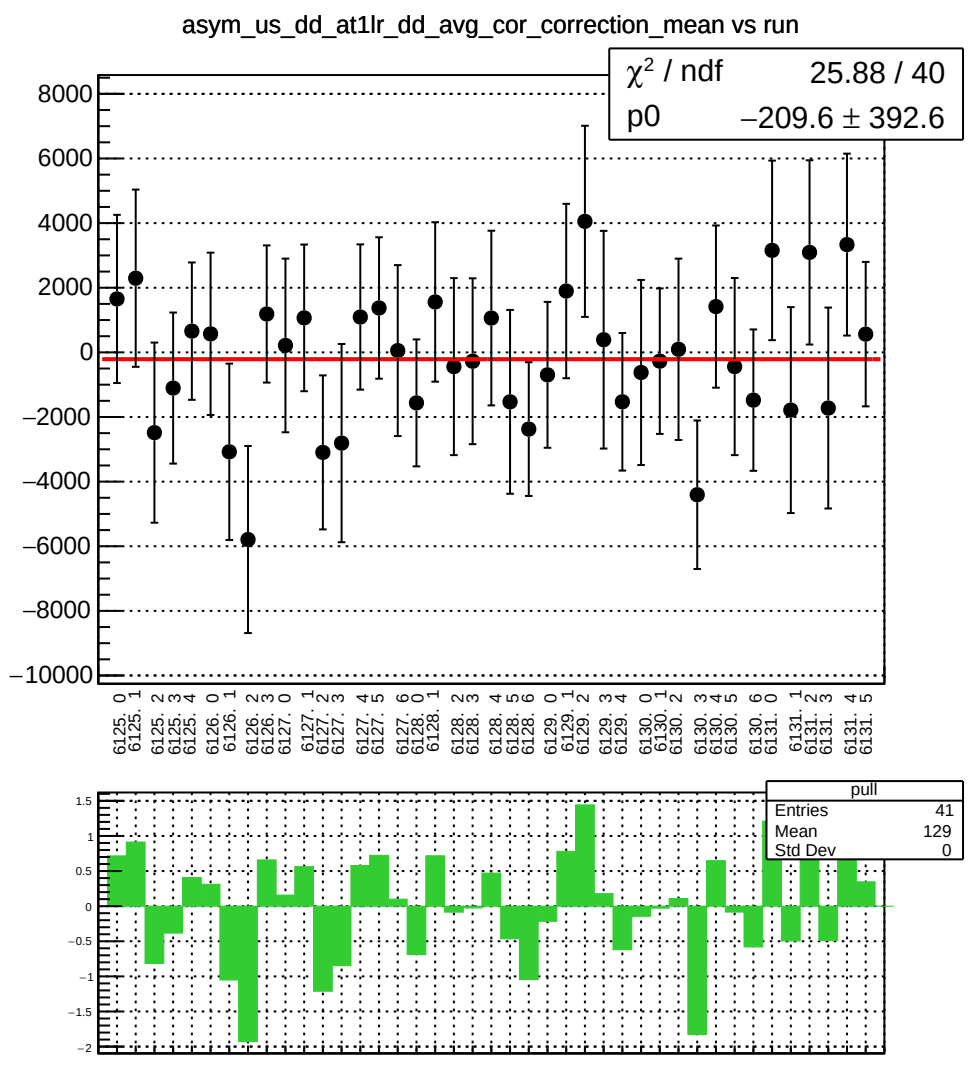

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 25.88 / 40
p0 −209.5 ± 392.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 129
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.01044
Std Dev 0.7944
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

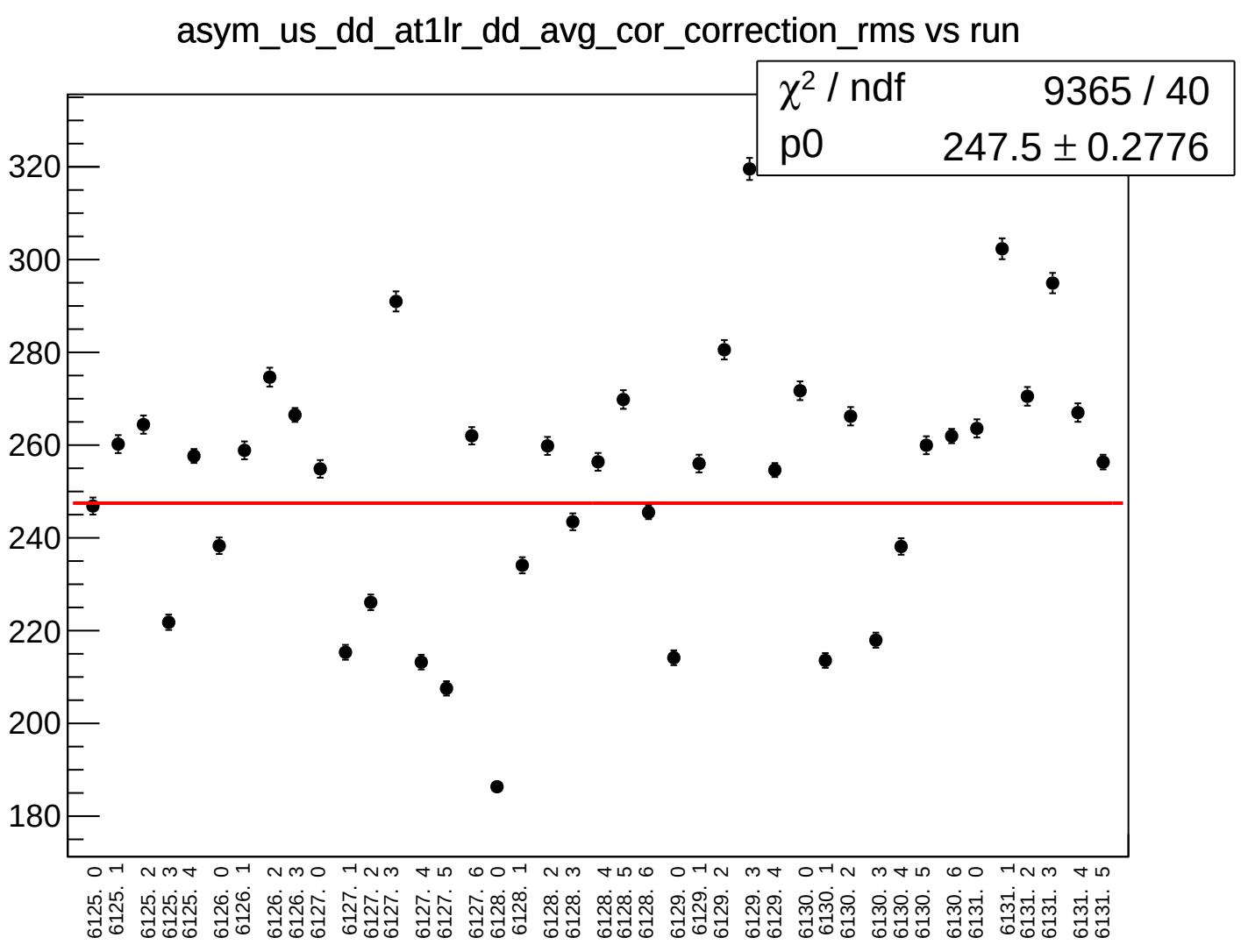

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 9383 / 40
p0 247.5 ± 0.2776
320
300
280
260
240
220
200
180
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

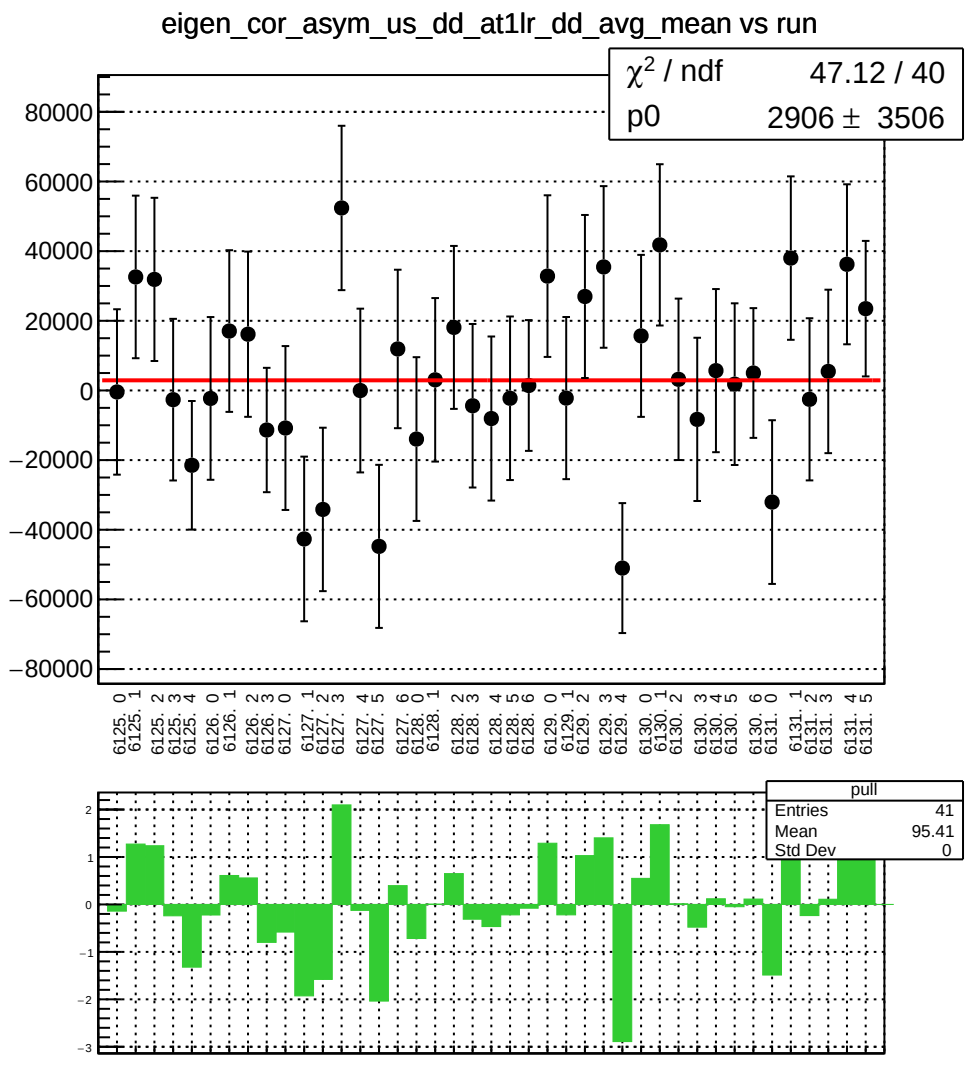

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 47.12 / 40
p0 2906 ± 3506
pull
Entries 41
Mean 95.41
Std Dev 0

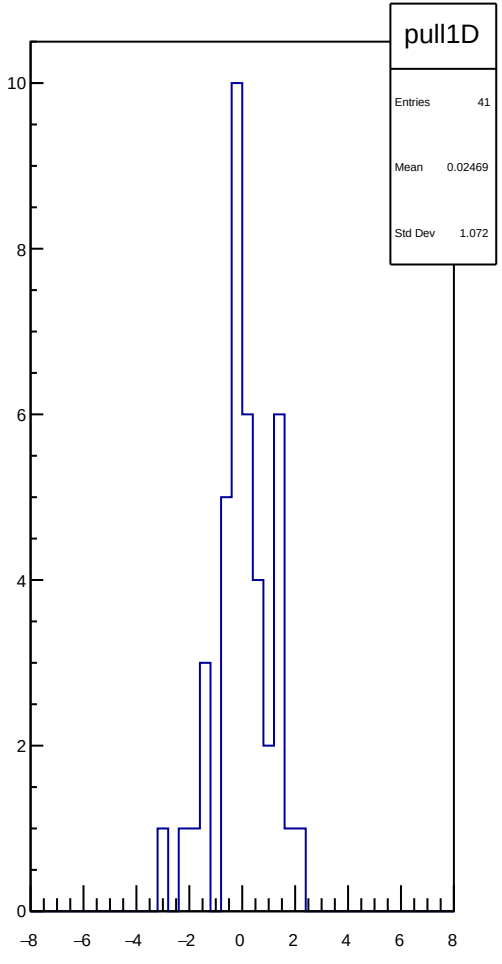

pull1D
Entries 41
Mean 0.02469
Std Dev 1.072

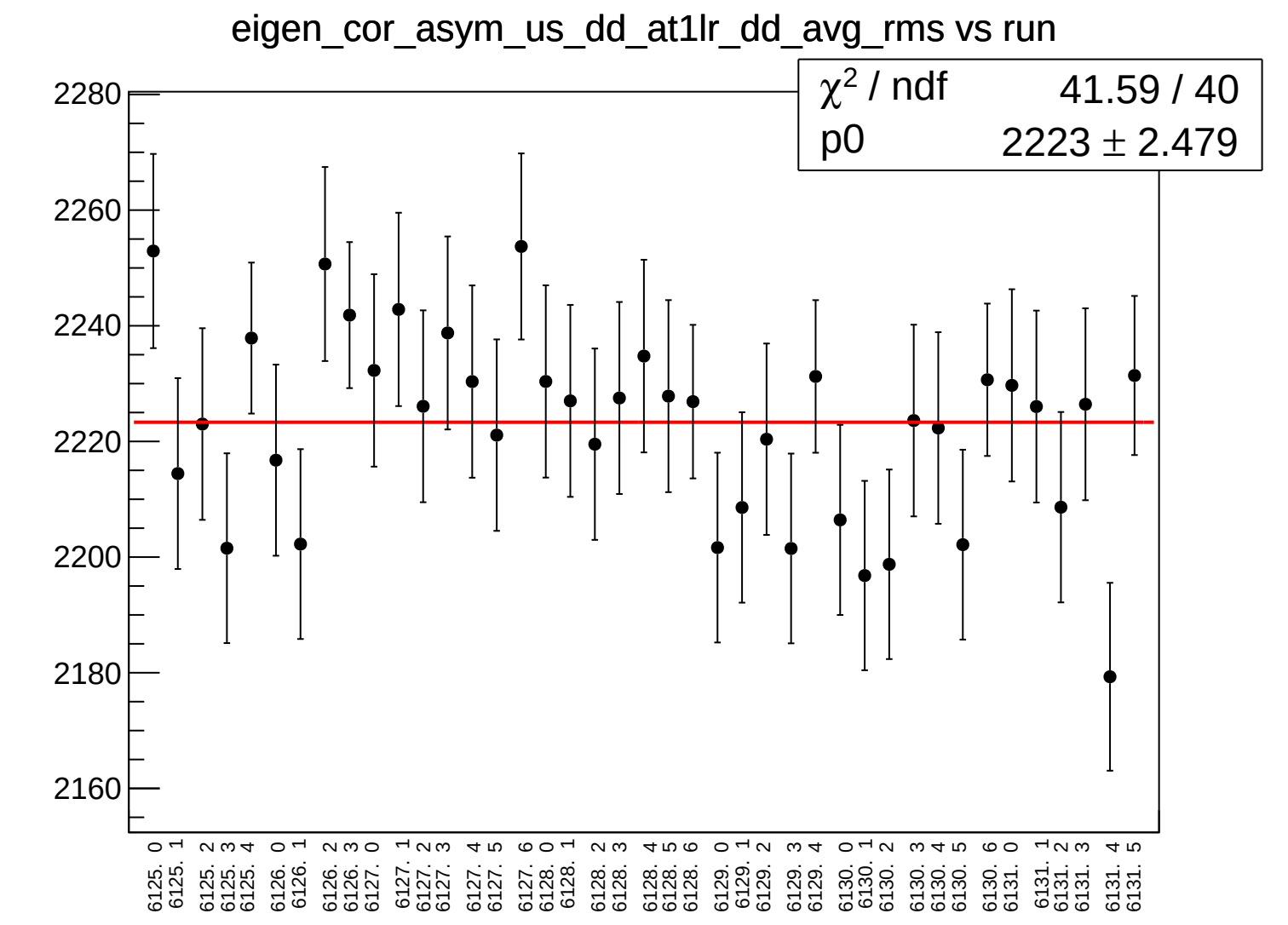

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 41.59 / 40
p0 2223 ± 2.479
2280
2260
2240
2220
2200
2180
2160
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

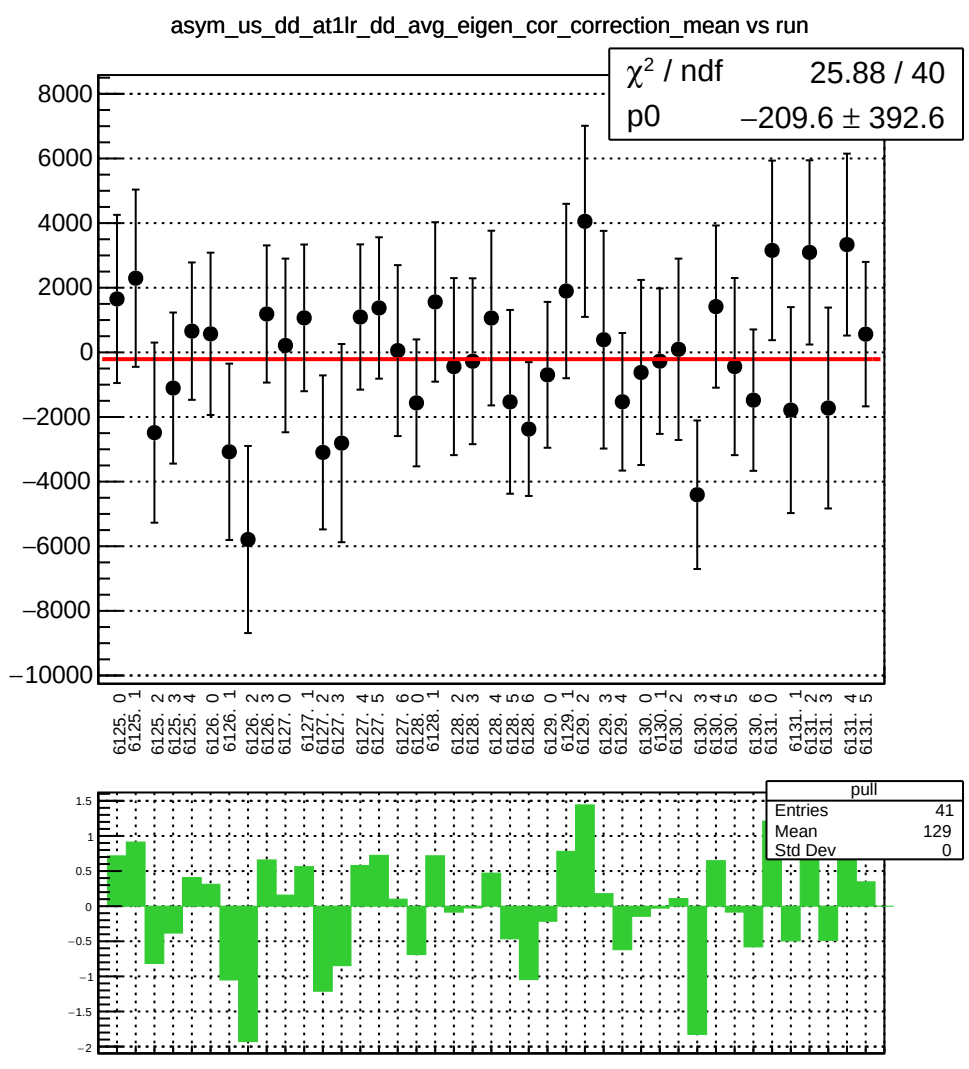

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 25.88 / 40
p0 −209.6 ± 392.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 129
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.01045
Std Dev 0.7945
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

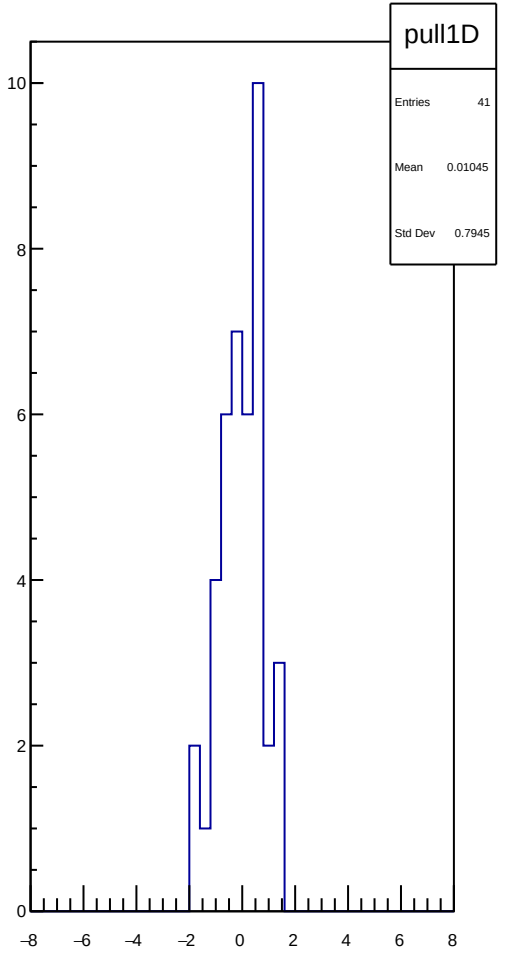

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 9365 / 40
p0 247.5 ± 0.2776
320
300
280
260
240
220
200
180
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

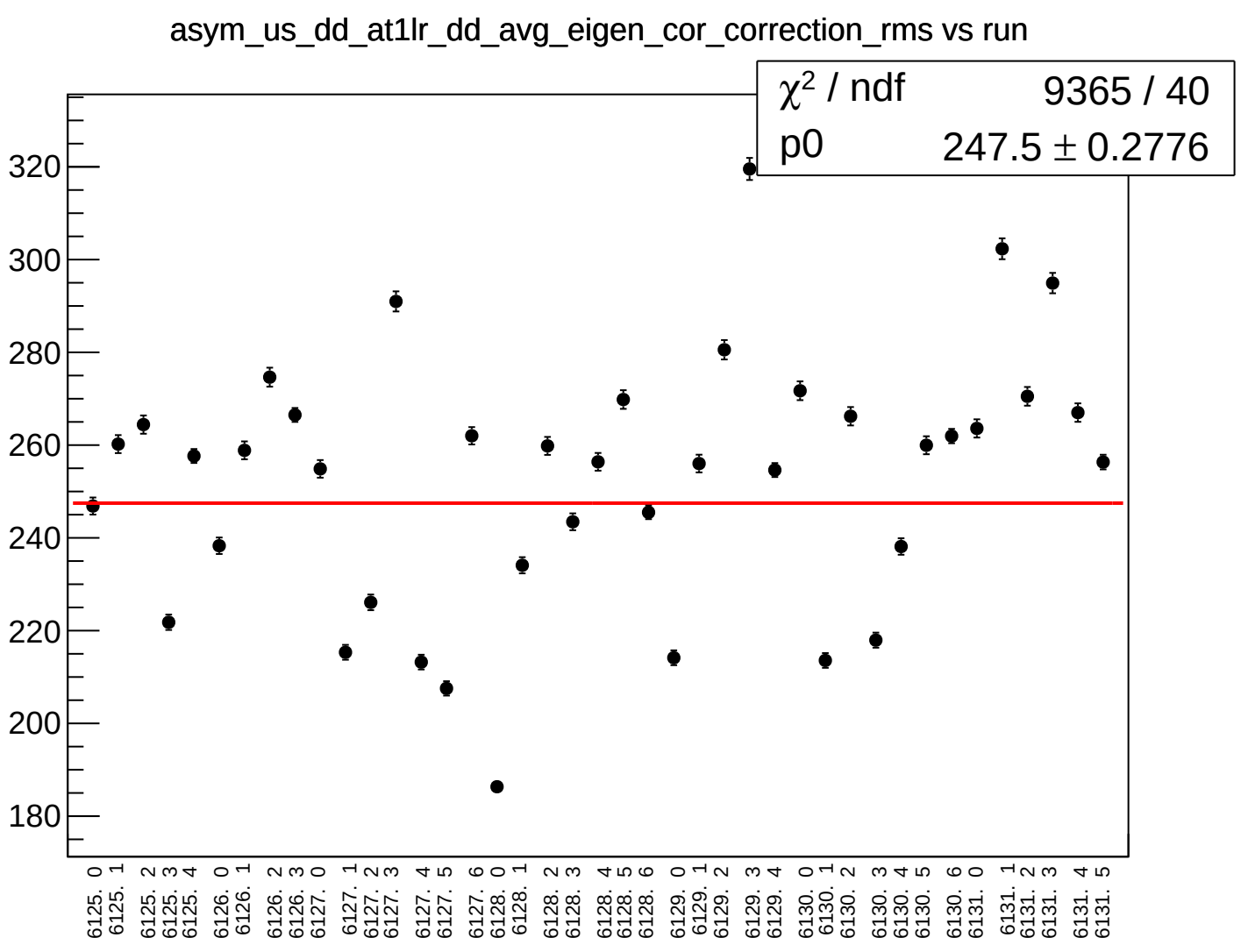

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 47.12 / 40
p0 2906 ± 3506
pull
Entries 41
Mean 95.41
Std Dev 0

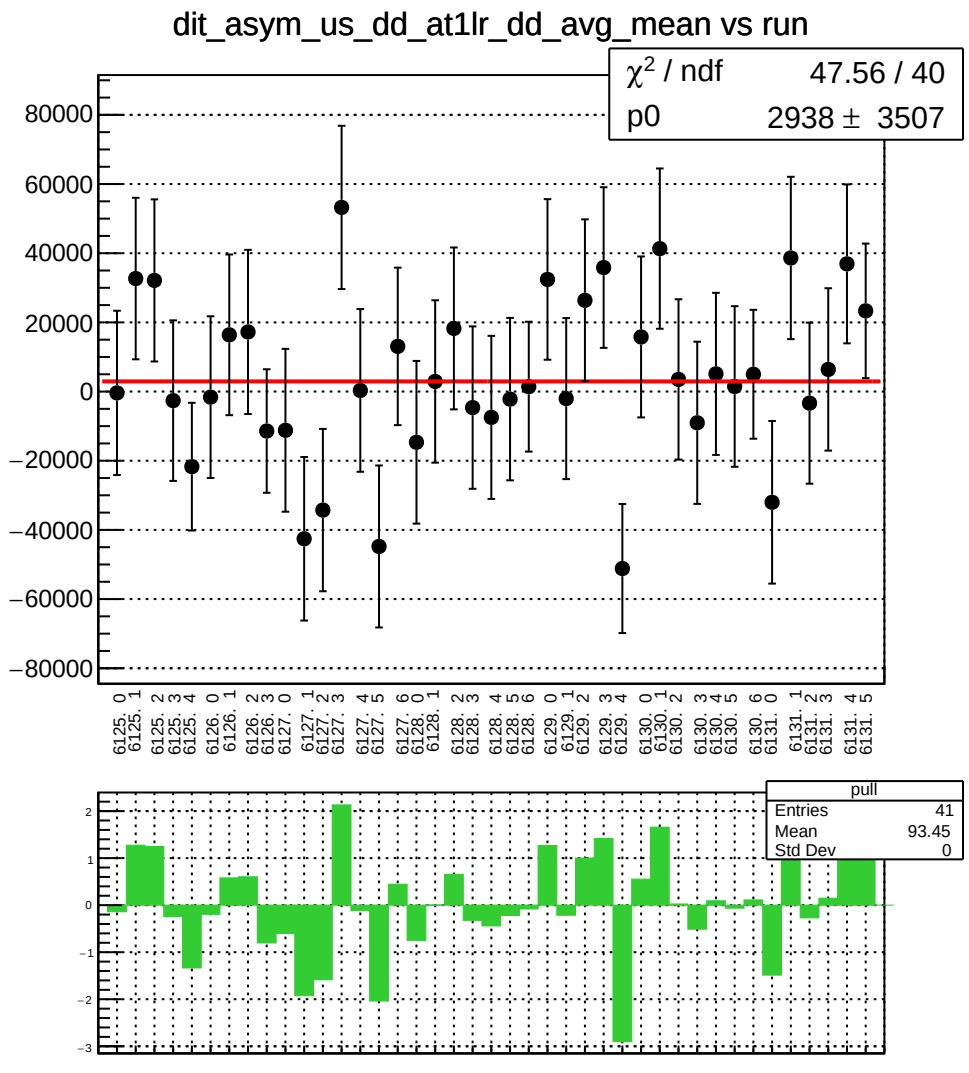

pull1D
Entries 41
Mean 0.02469
Std Dev 1.072

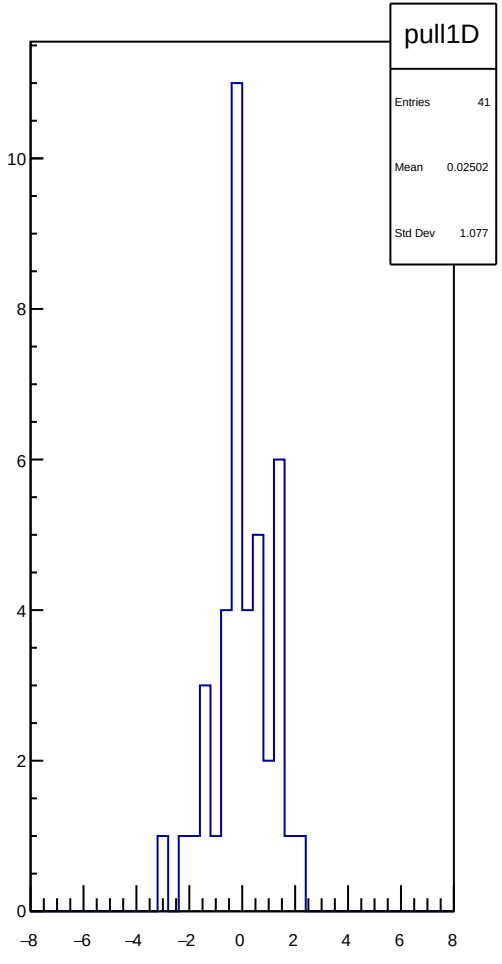

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 41.59 / 40
p0 2223 ± 2.479
2280
2260
2240
2220
2200
2180
2160
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

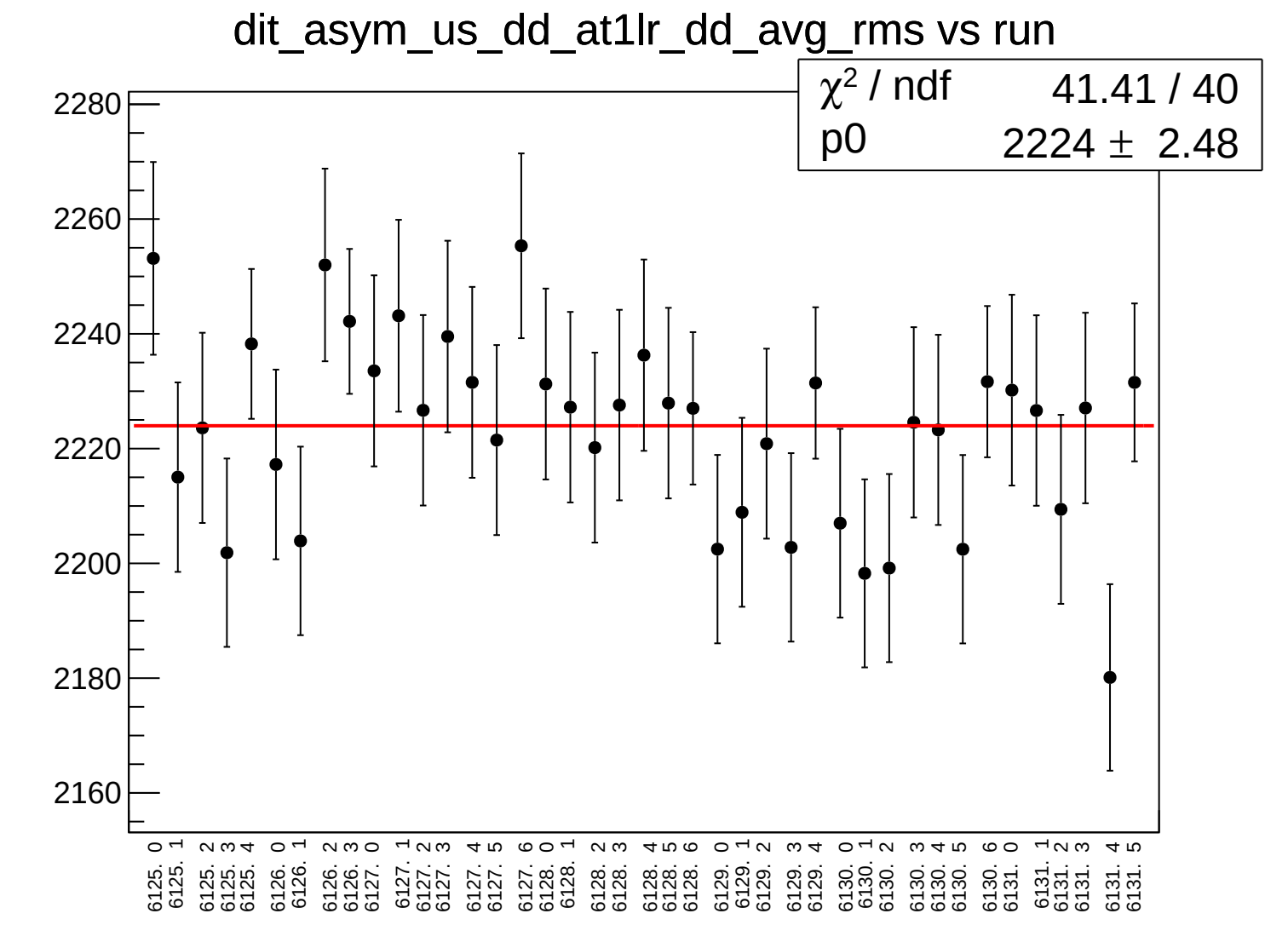

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 25.88 / 40
p0 −209.6 ± 392.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 129
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

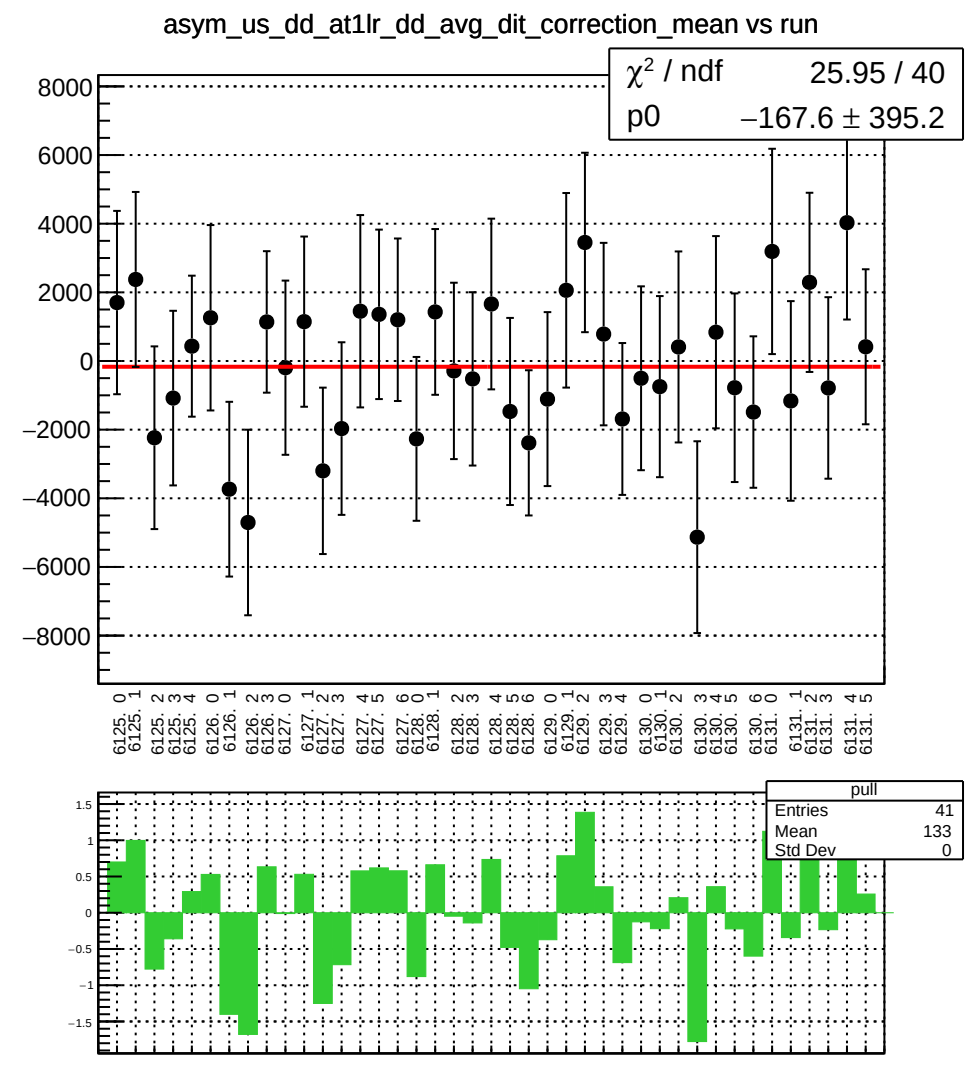

pull1D
Entries 41
Mean 0.01045
Std Dev 0.7945
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

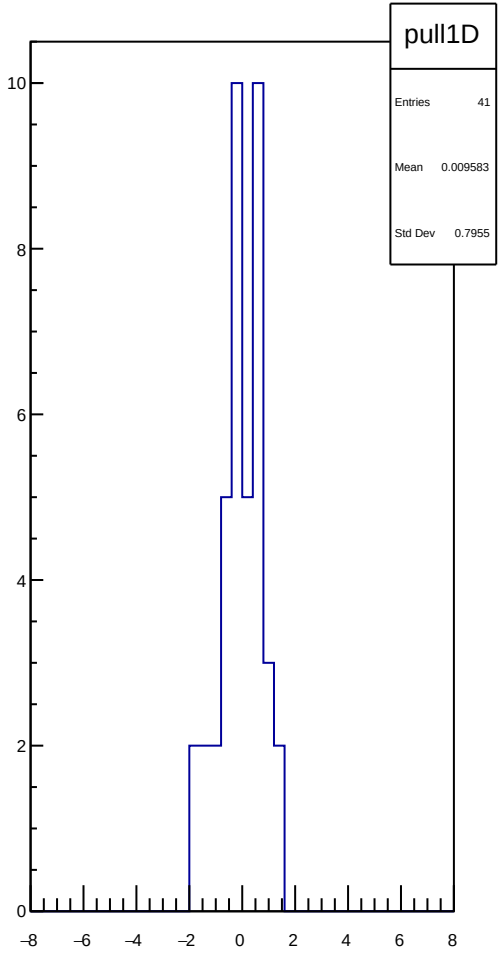

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 9365 / 40
p0 247.5 ± 0.2776
320
300
280
260
240
220
200
180
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

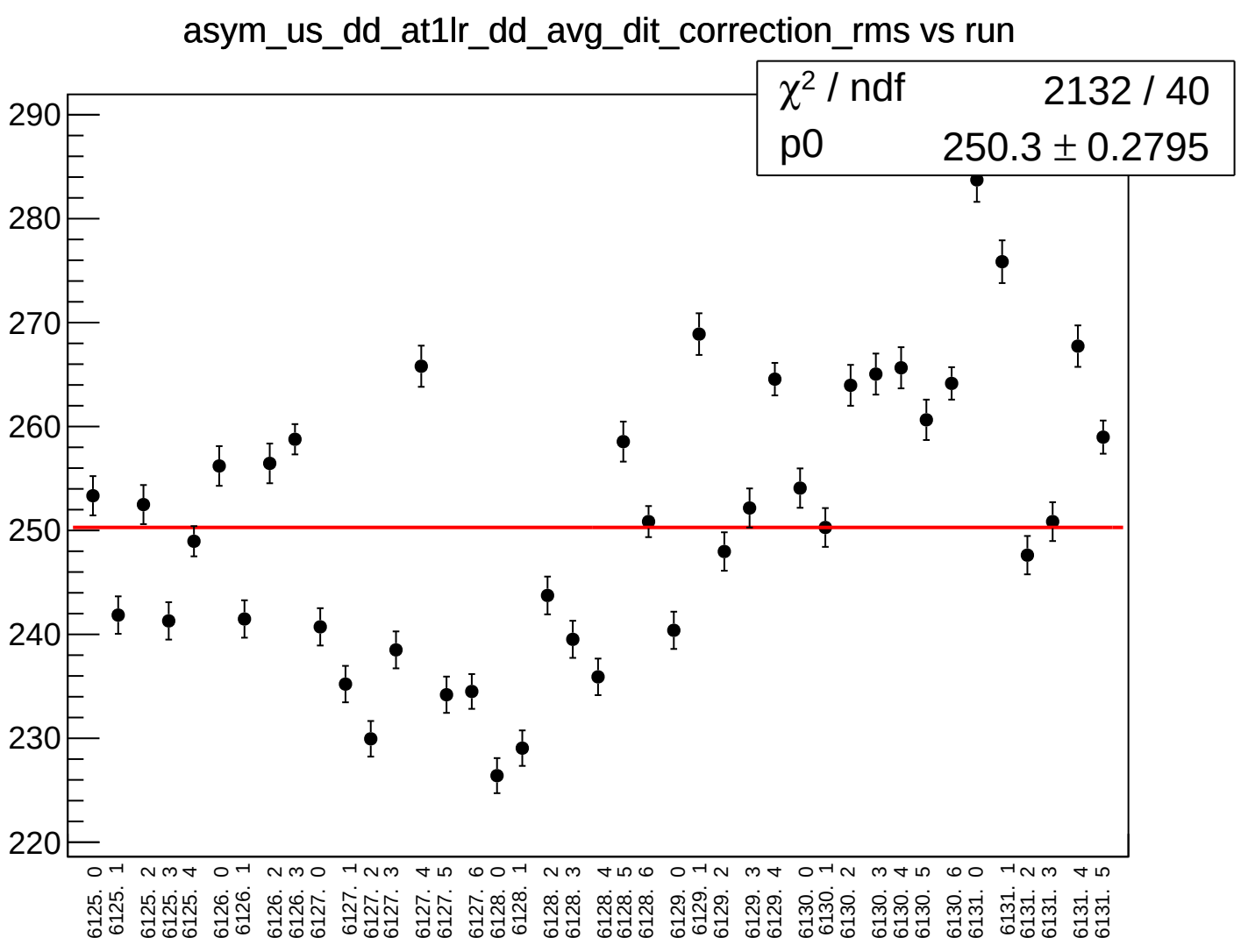

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 47.56 / 40
p0 2938 ± 3507
pull
Entries 41
Mean 93.45
Std Dev 0

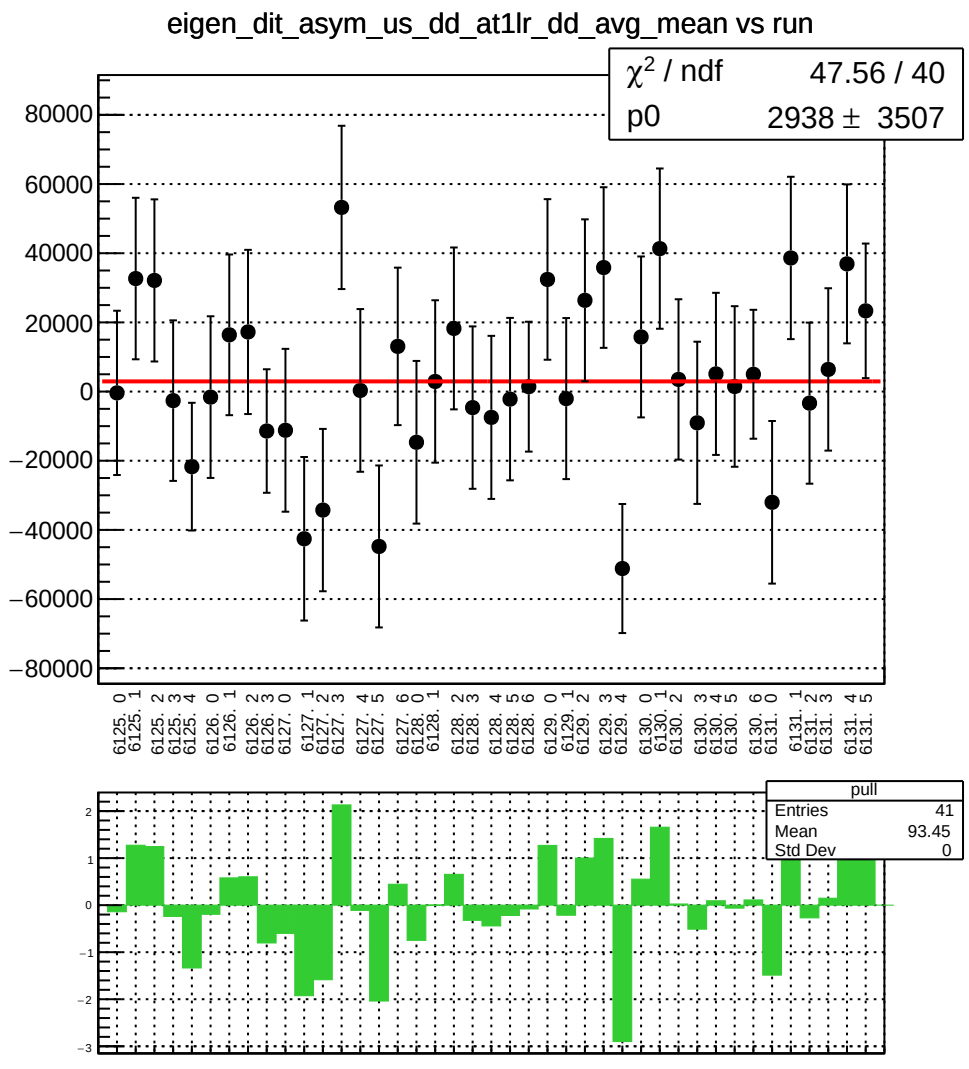

pull1D
Entries 41
Mean 0.02502
Std Dev 1.077

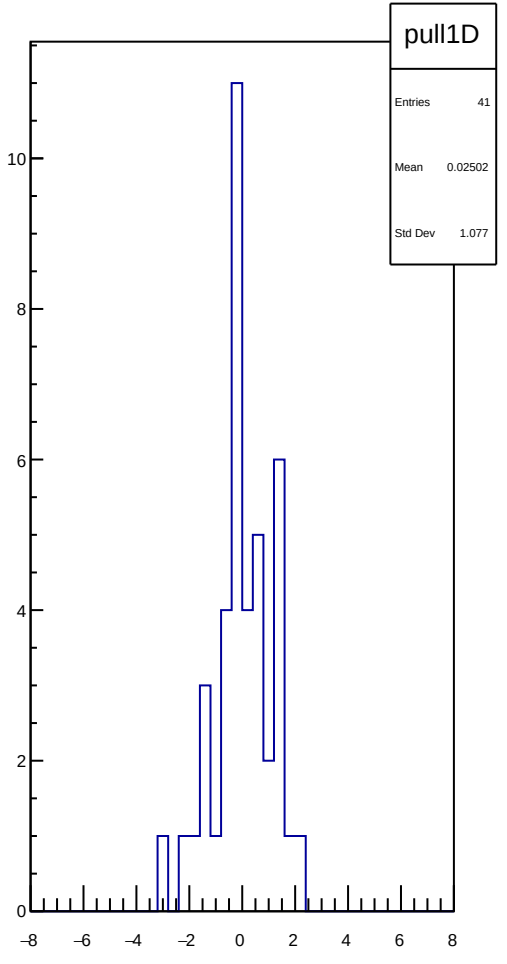

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 41.41 / 40
p0 2224 ± 2.48
2280
2260
2240
2220
2200
2180
2160
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

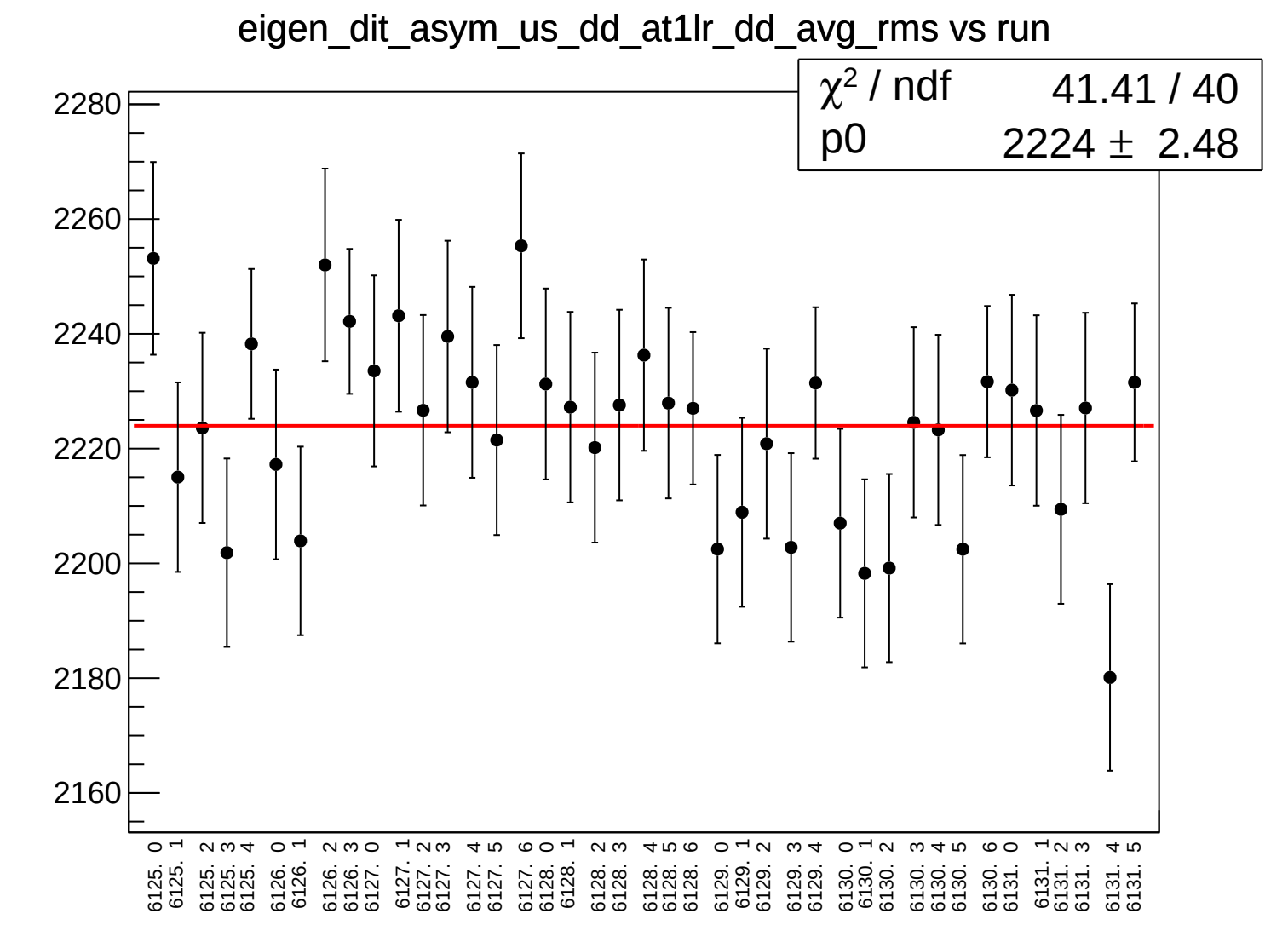

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 25.95 / 40
p0 −167.6 ± 395.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 133
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

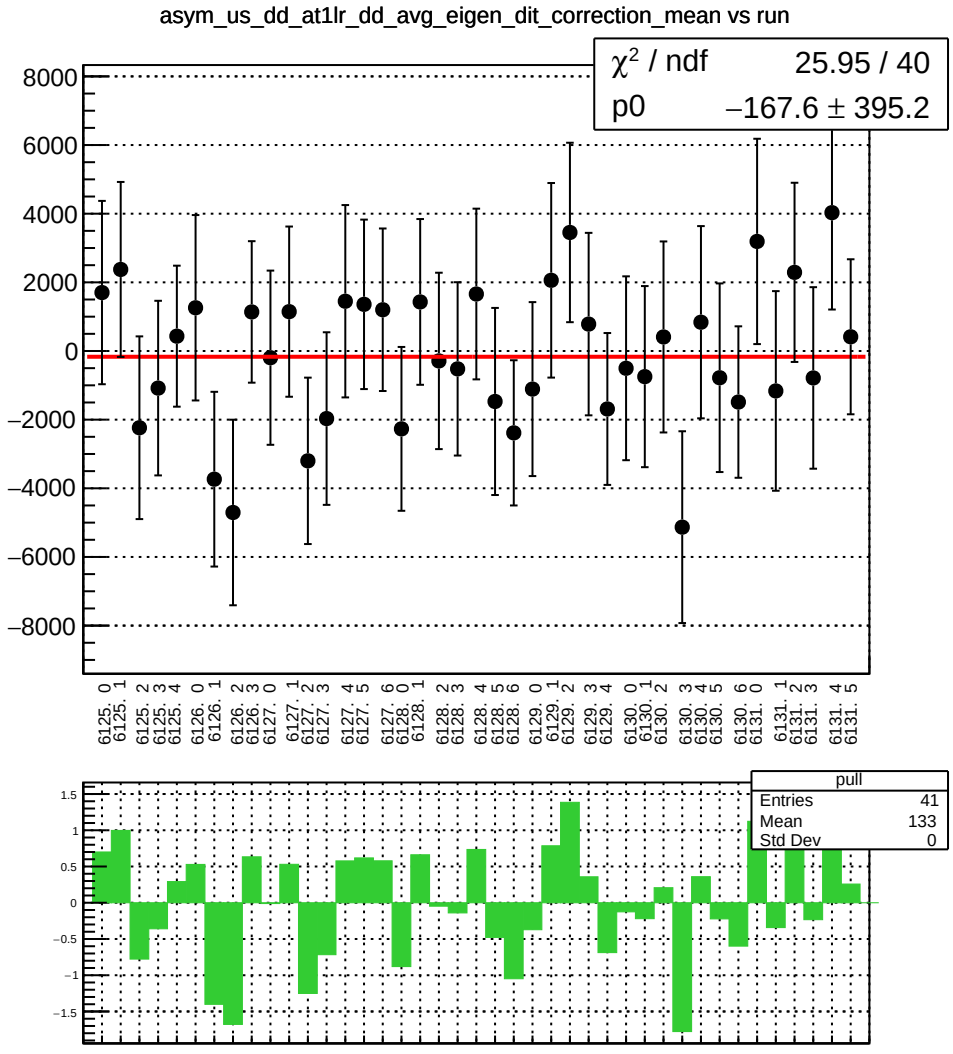

pull1D
Entries 41
Mean 0.009583
Std Dev 0.7955
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

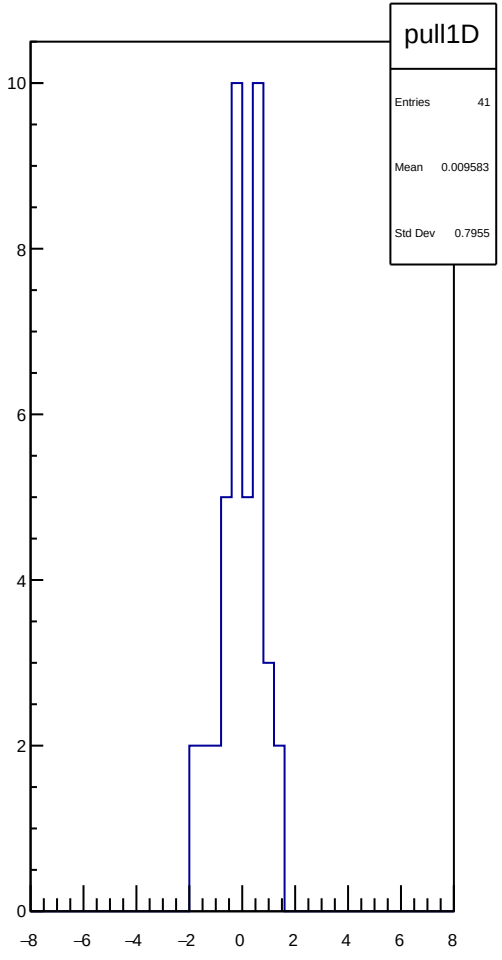

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2132 / 40
p0 250.3 ± 0.2795
290
280
270
260
250
240
230
220
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

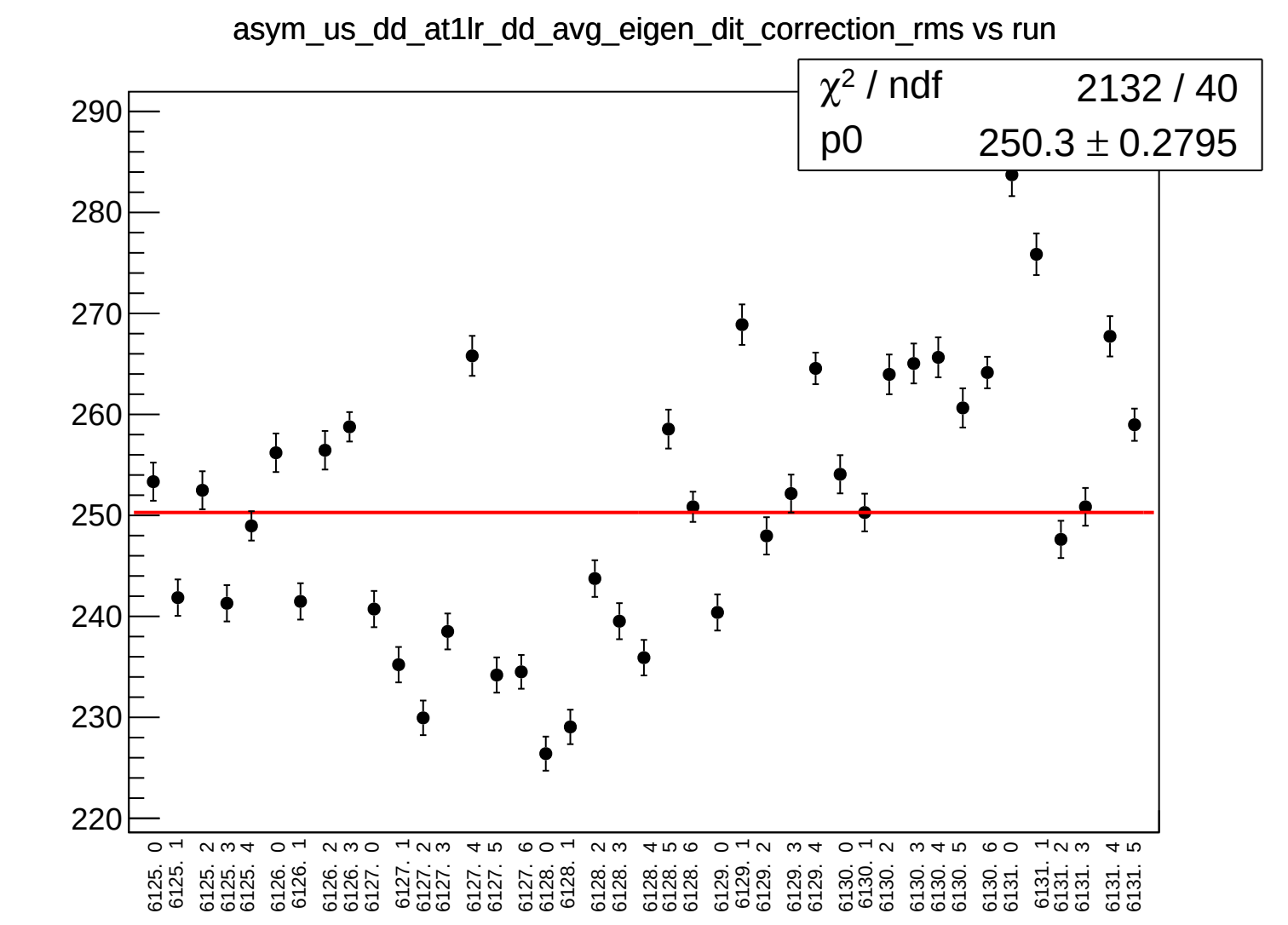

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 47.56 / 40
p0 2938 ± 3507
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 93.45
Std Dev 0
2
1
0
−1
−2
−3

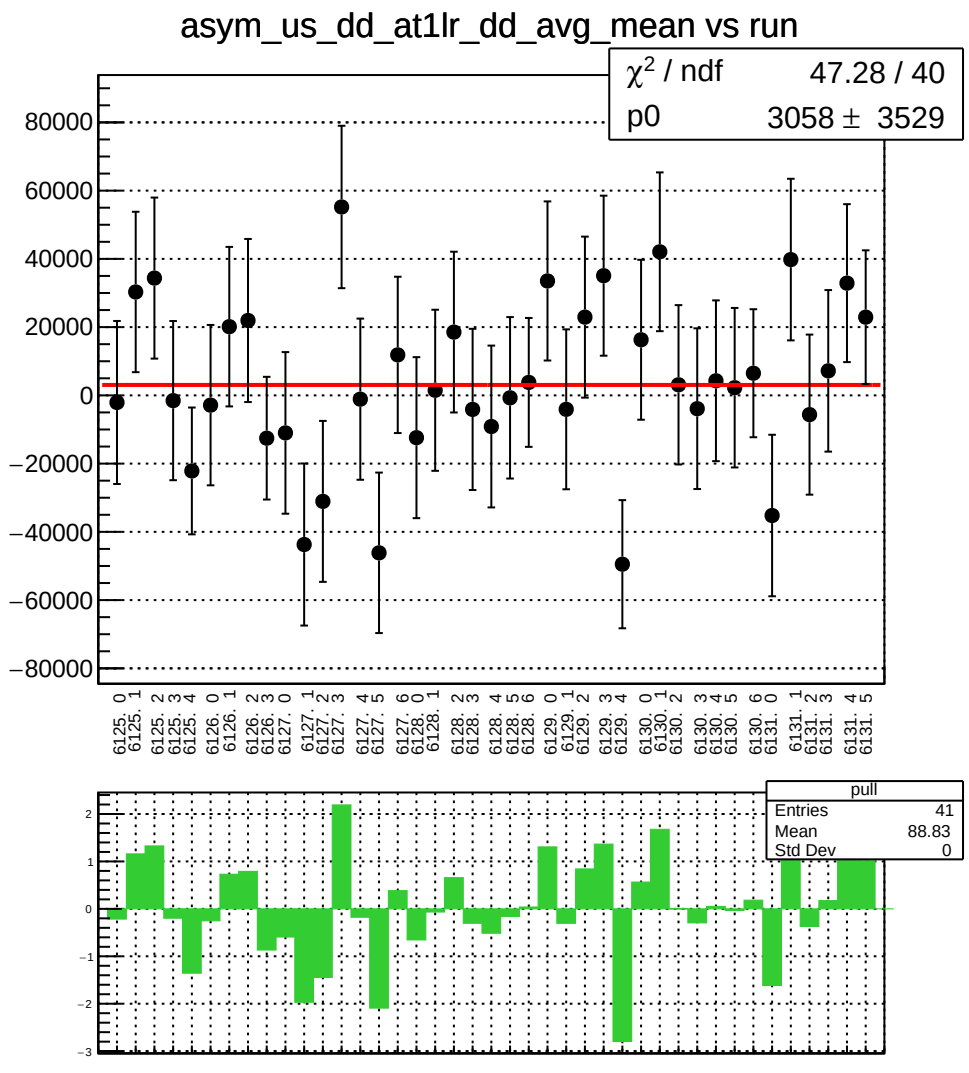

pull1D
Entries 41
Mean 0.02502
Std Dev 1.077
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

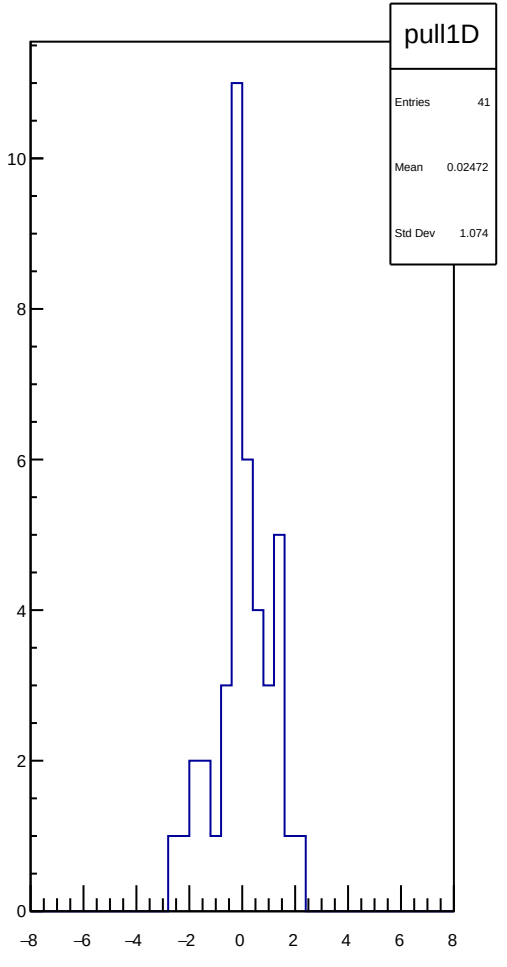

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 41.41 / 40
p0 2224 ± 2.48
2280
2260
2240
2220
2200
2180
2160
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

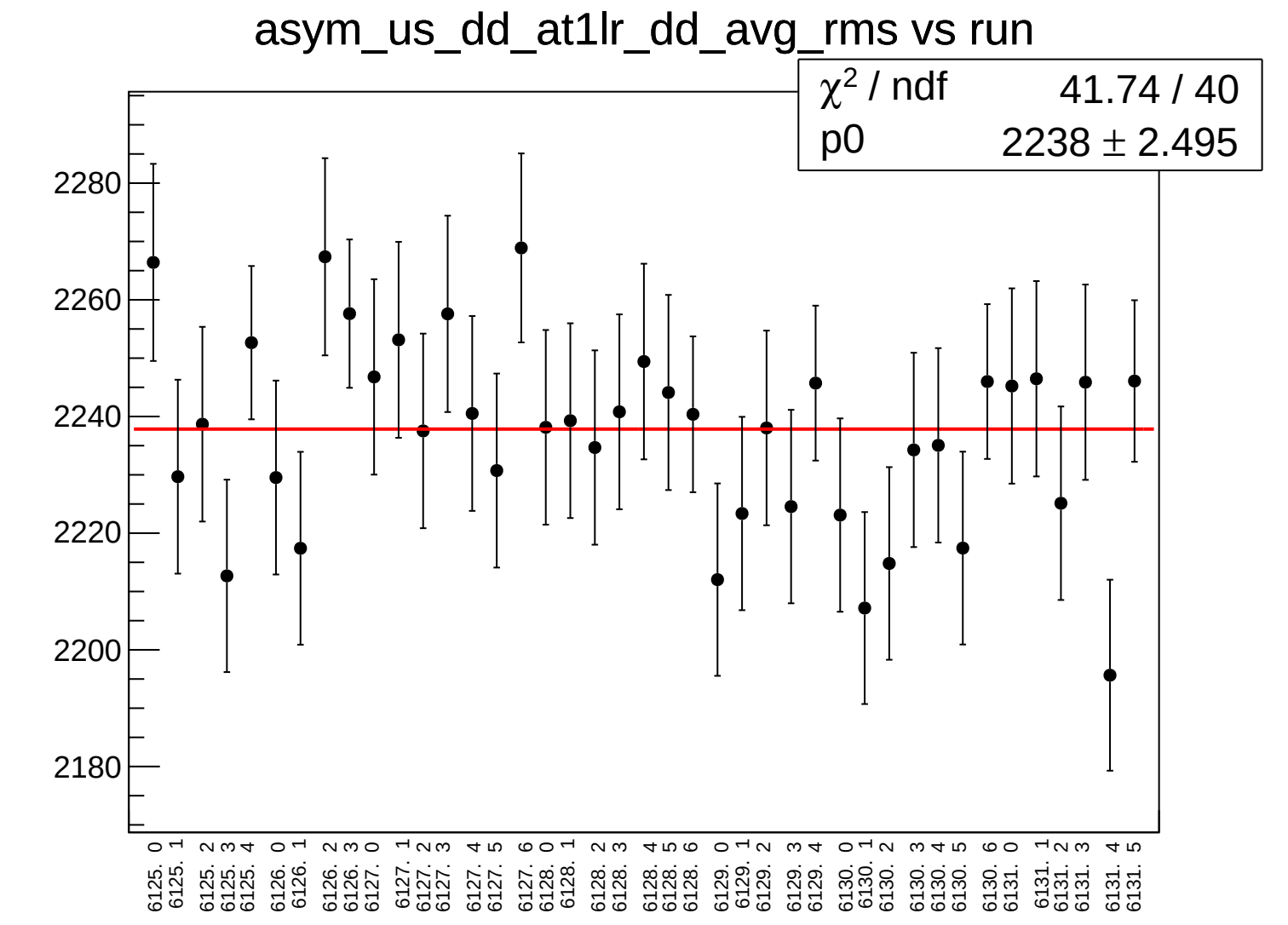

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 25.95 / 40
p0 −167.6 ± 395.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 133
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

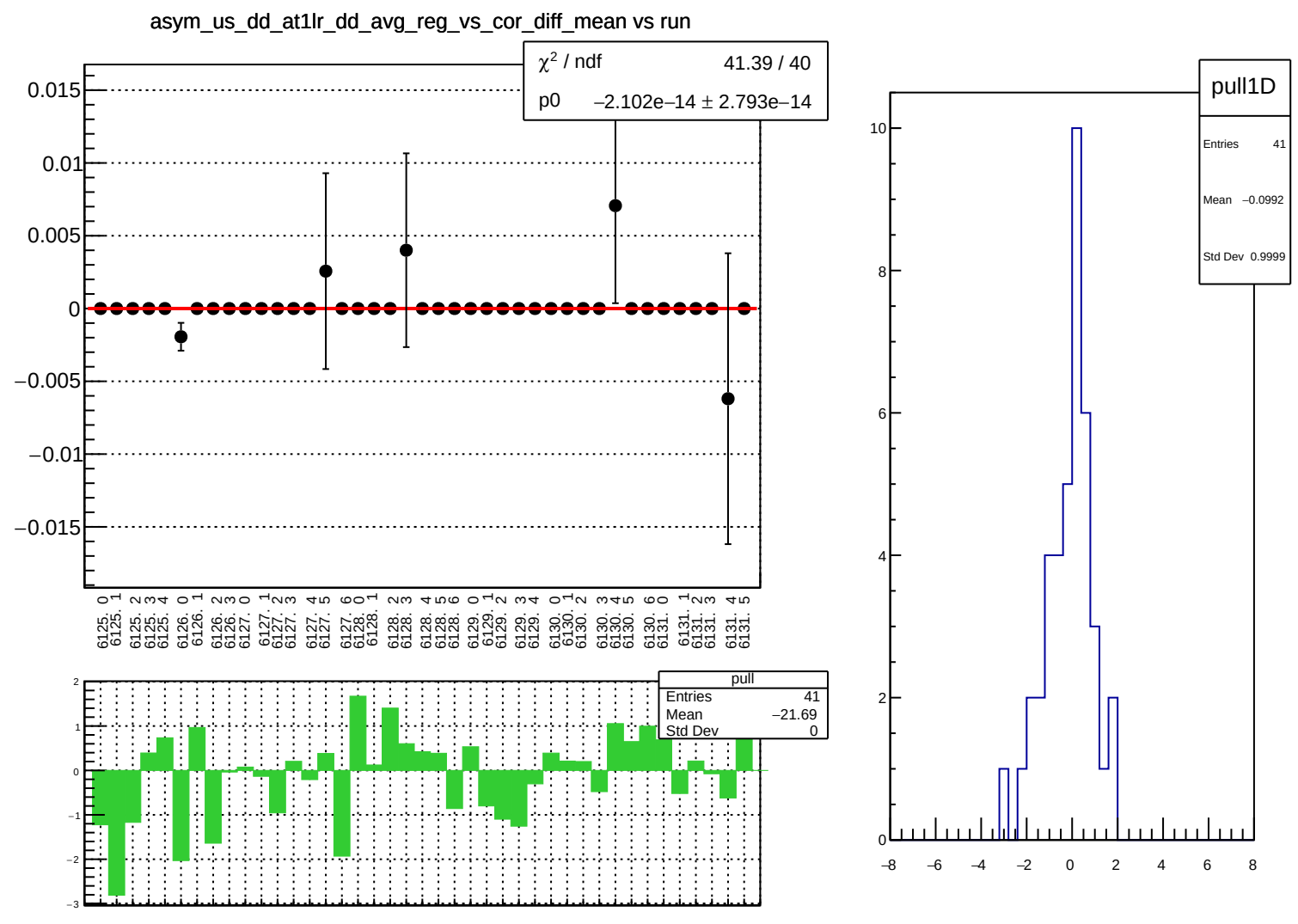

pull1D
Entries 41
Mean 0.009583
Std Dev 0.7955
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

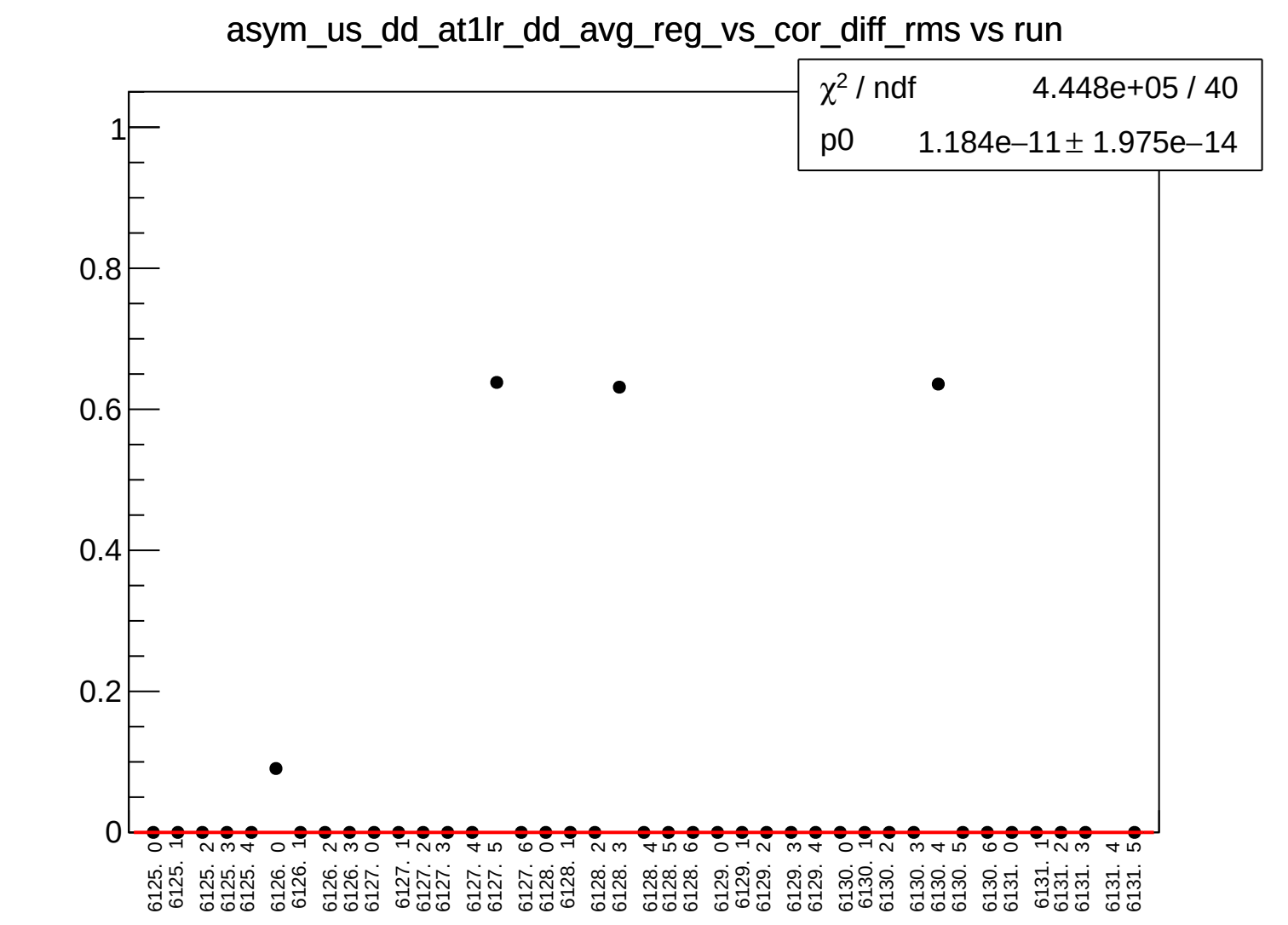

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2132 / 40
p0 250.3 ± 0.2795
290
280
270
260
250
240
230
220
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

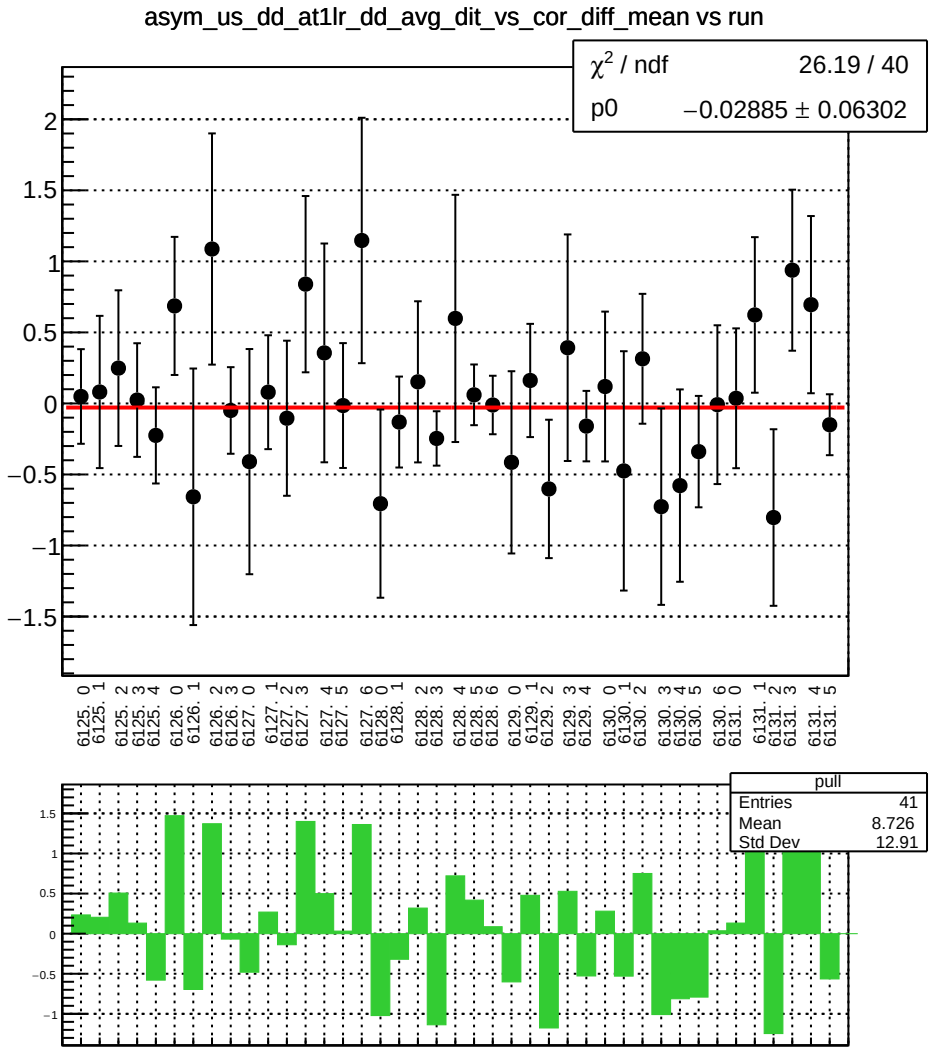

asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 47.28 / 40
p0 3058 ± 3529
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 88.83
Std Dev 0
2
1
0
−1
−2
−3

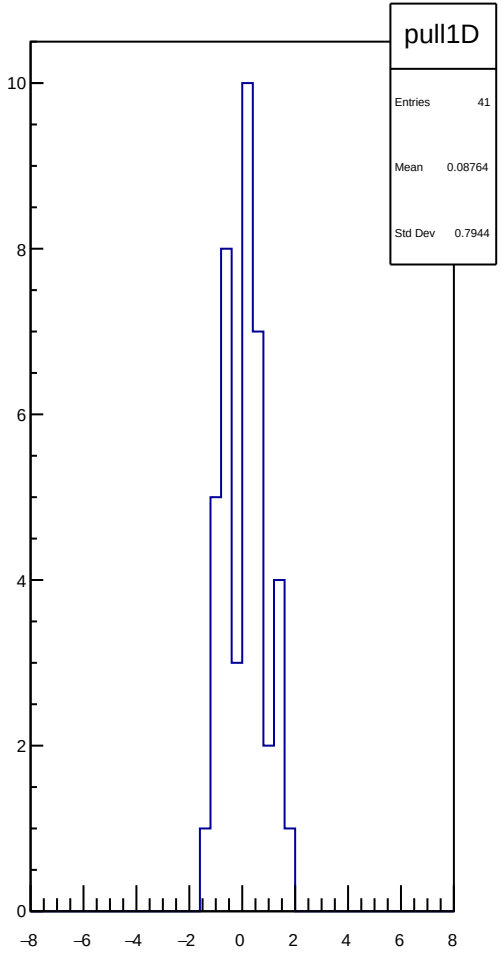

pull1D
Entries 41
Mean 0.02472
Std Dev 1.074
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

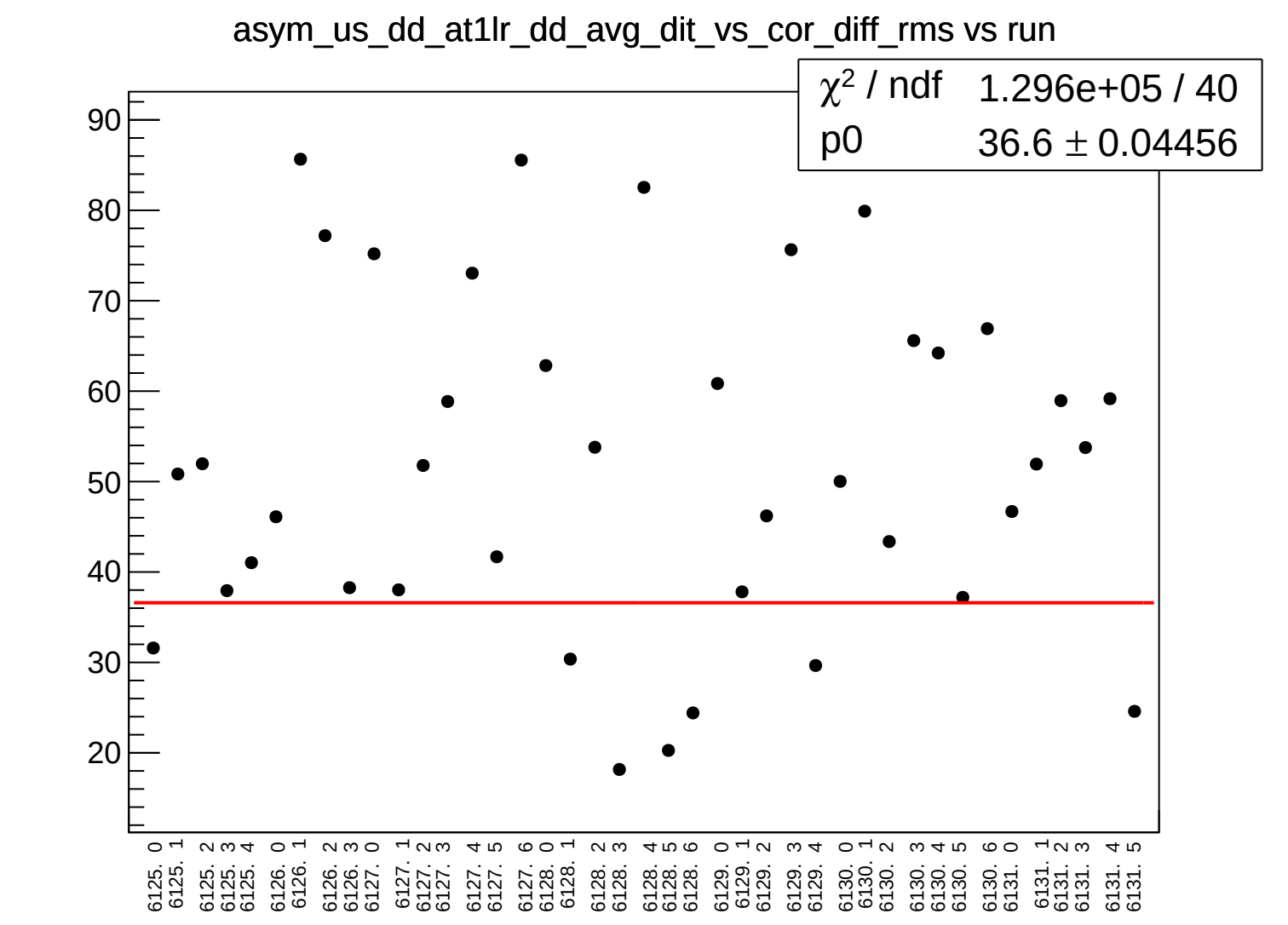

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 41.74 / 40
p0 2238 ± 2.495
2280
2260
2240
2220
2200
2180
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

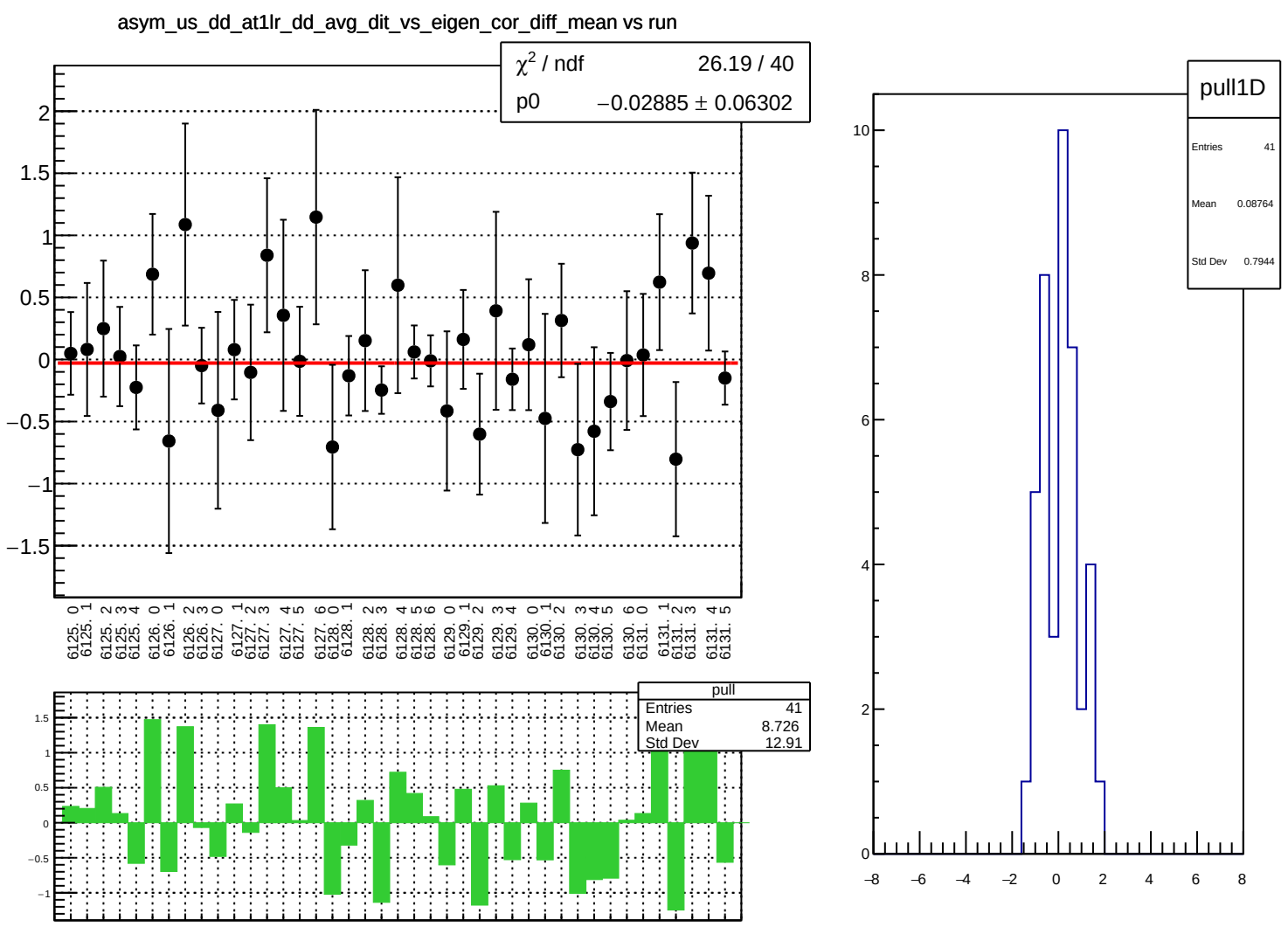

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 41.39 / 40
p0 −2.102e−14 ± 2.793e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −21.69
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean −0.0992
Std Dev 0.9999
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

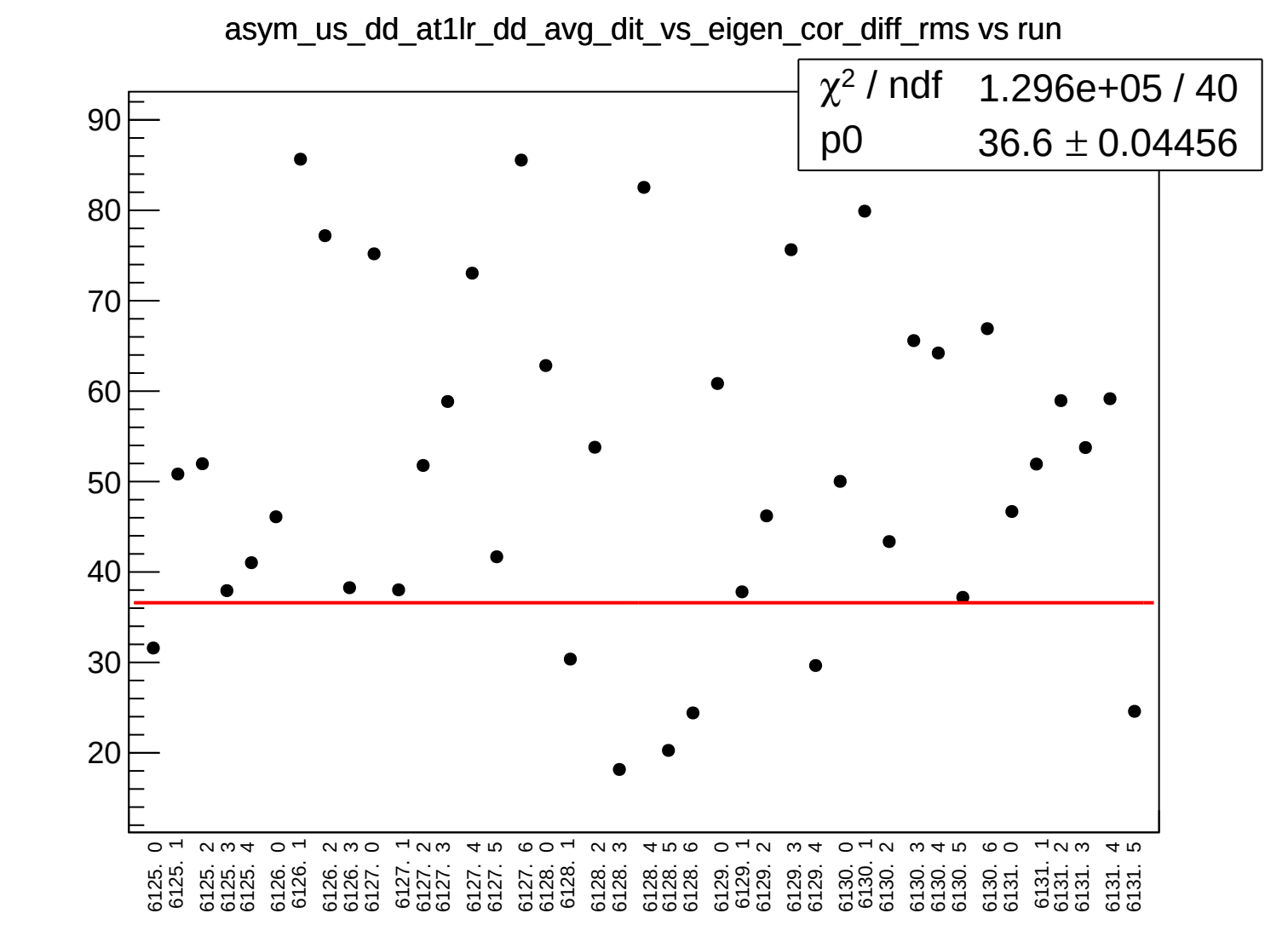

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.448e+05 / 40
p0 1.184e−11 ± 1.975e−14
1
0.8
0.6
0.4
0.2
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

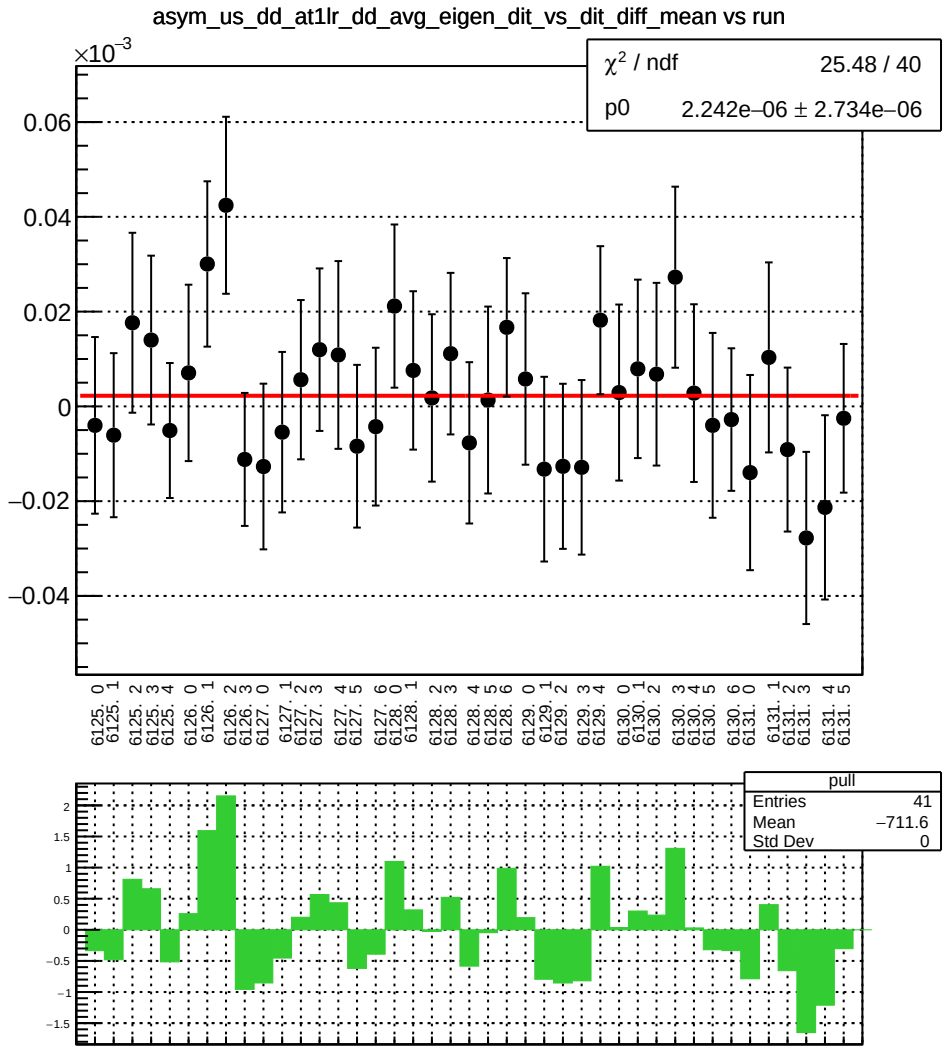

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 26.19 / 40
p0 −0.02885 ± 0.06302
pull
Entries 41
Mean 8.726
Std Dev 12.91

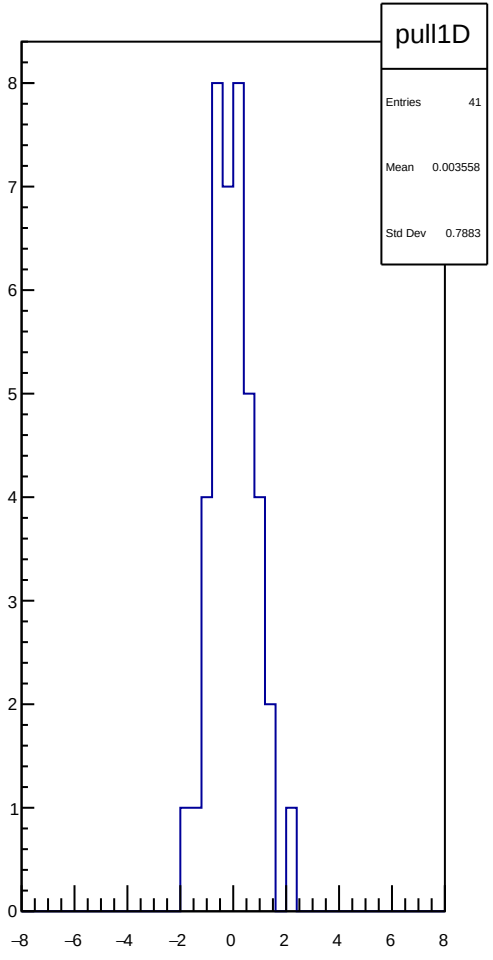

pull1D
Entries 41
Mean 0.08764
Std Dev 0.7944

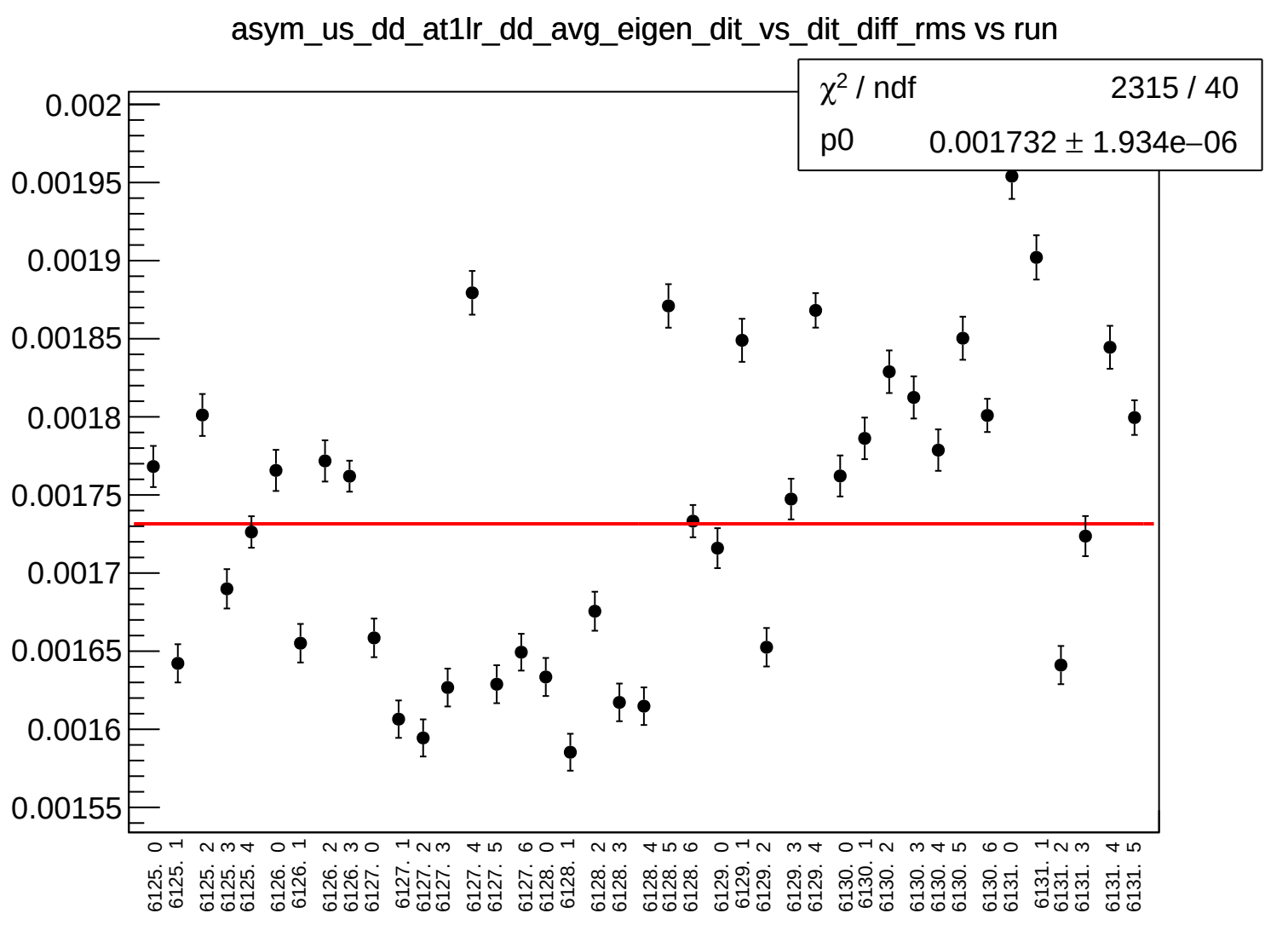

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.296e+05 / 40
p0 36.6 ± 0.04456
90
80
70
60
50
40
30
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

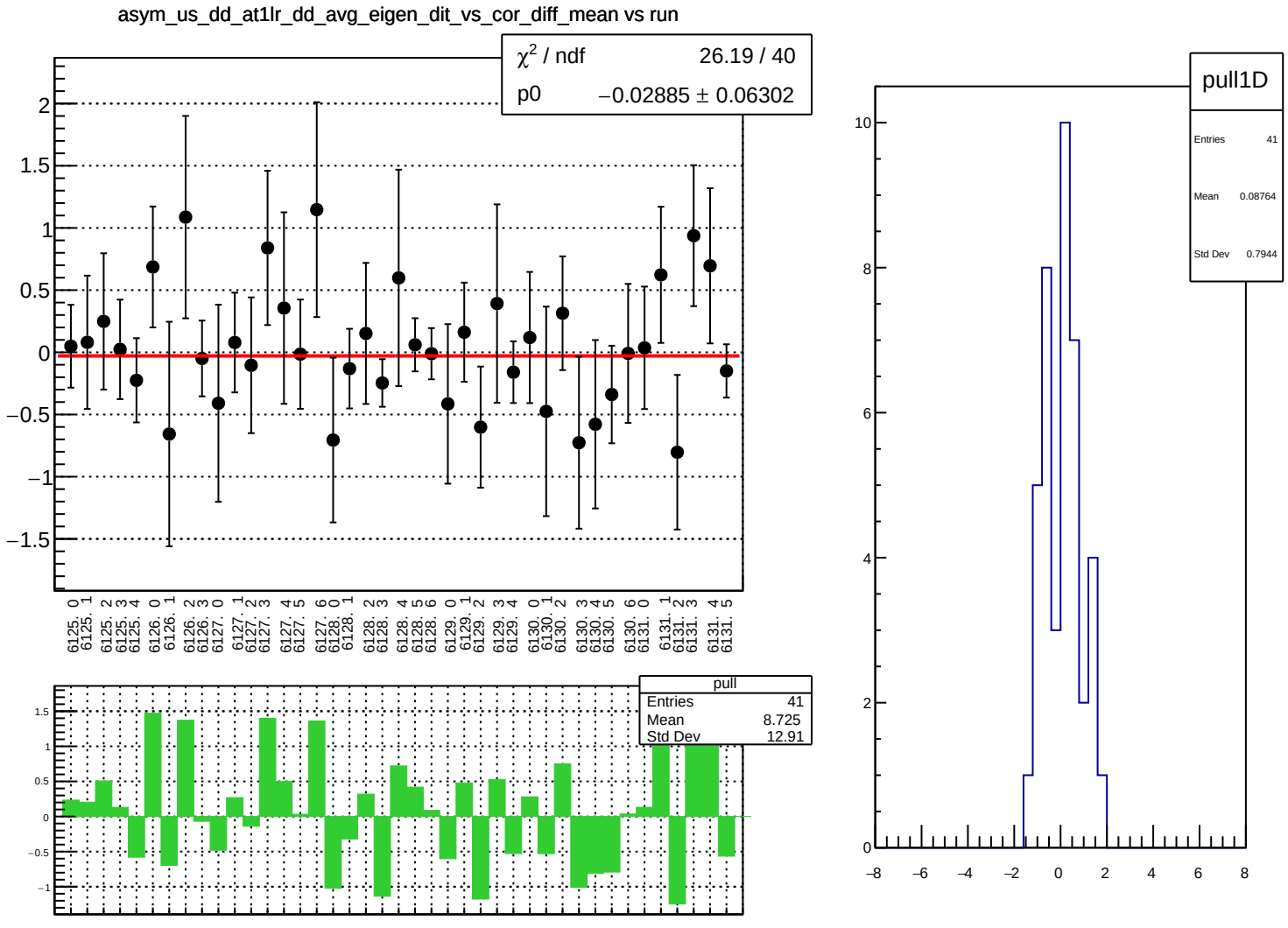

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 26.19 / 40
p0 −0.02885 ± 0.06302
pull
Entries 41
Mean 8.726
Std Dev 12.91
pull1D
Entries 41
Mean 0.08764
Std Dev 0.7944

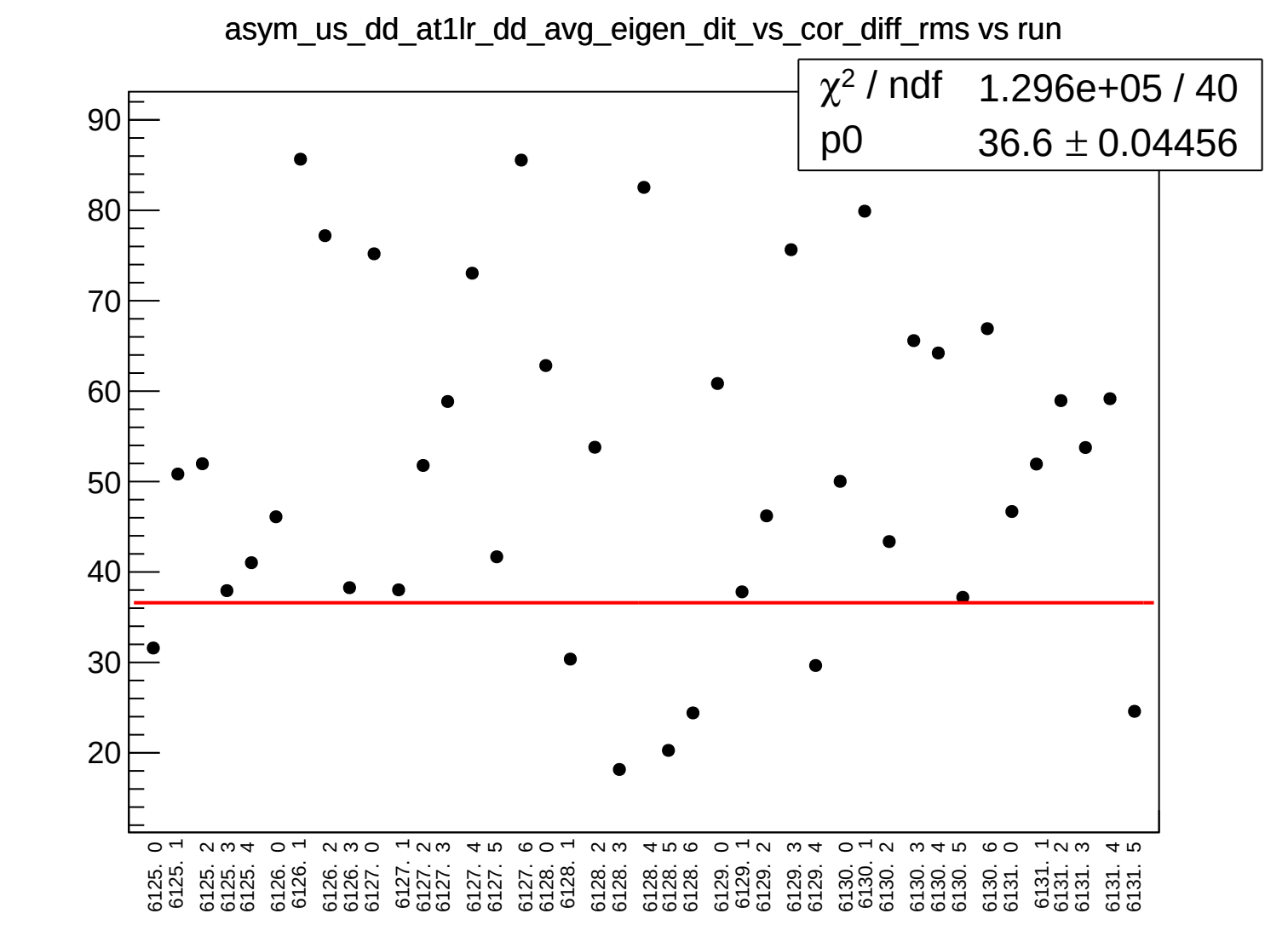

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.296e+05 / 40
p0 36.6 ± 0.04456
90
80
70
60
50
40
30
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

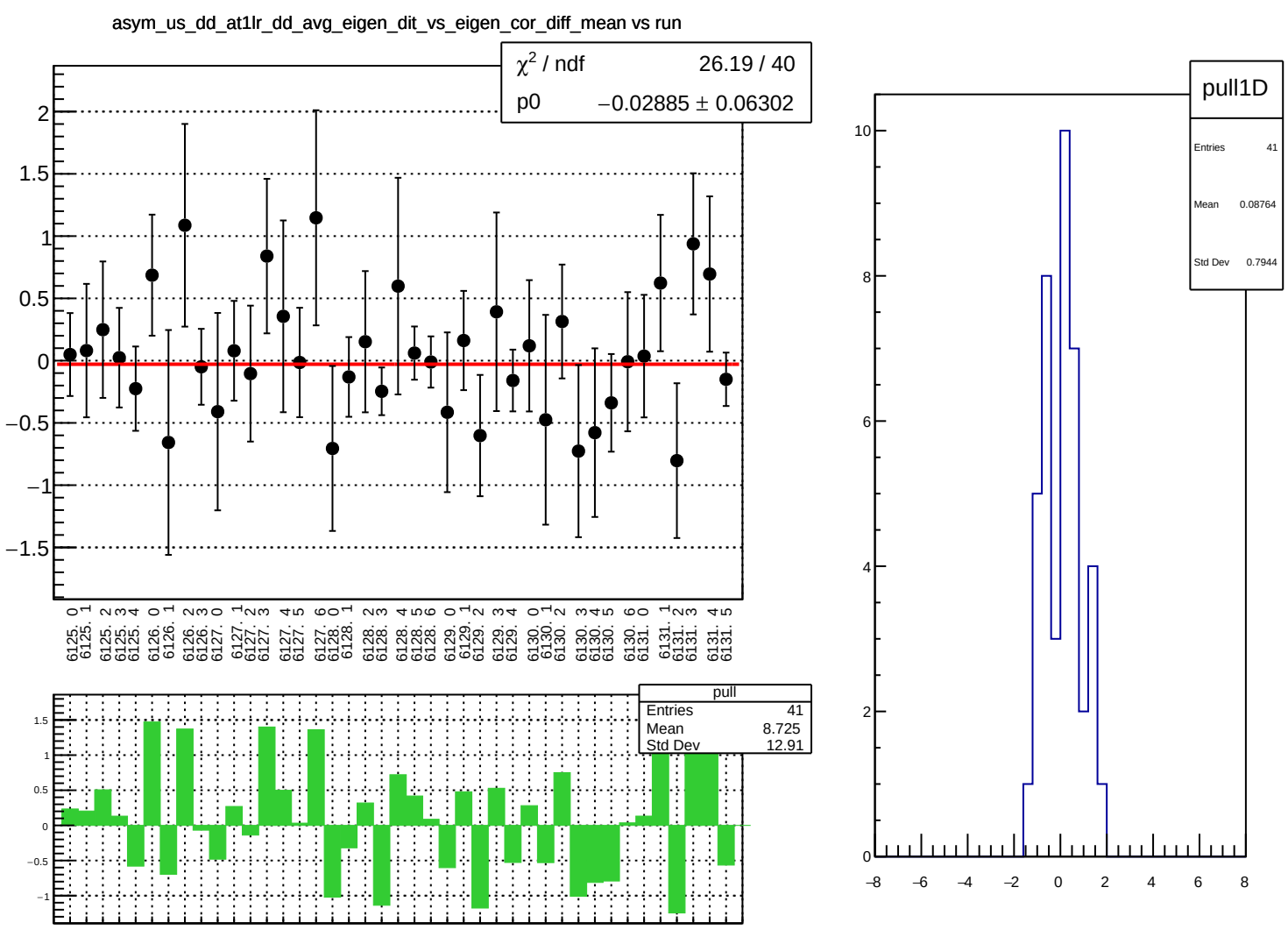

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 25.48 / 40
p0 2.242e−06 ± 2.734e−06
0.06
0.04
0.02
0
−0.02
−0.04
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −711.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

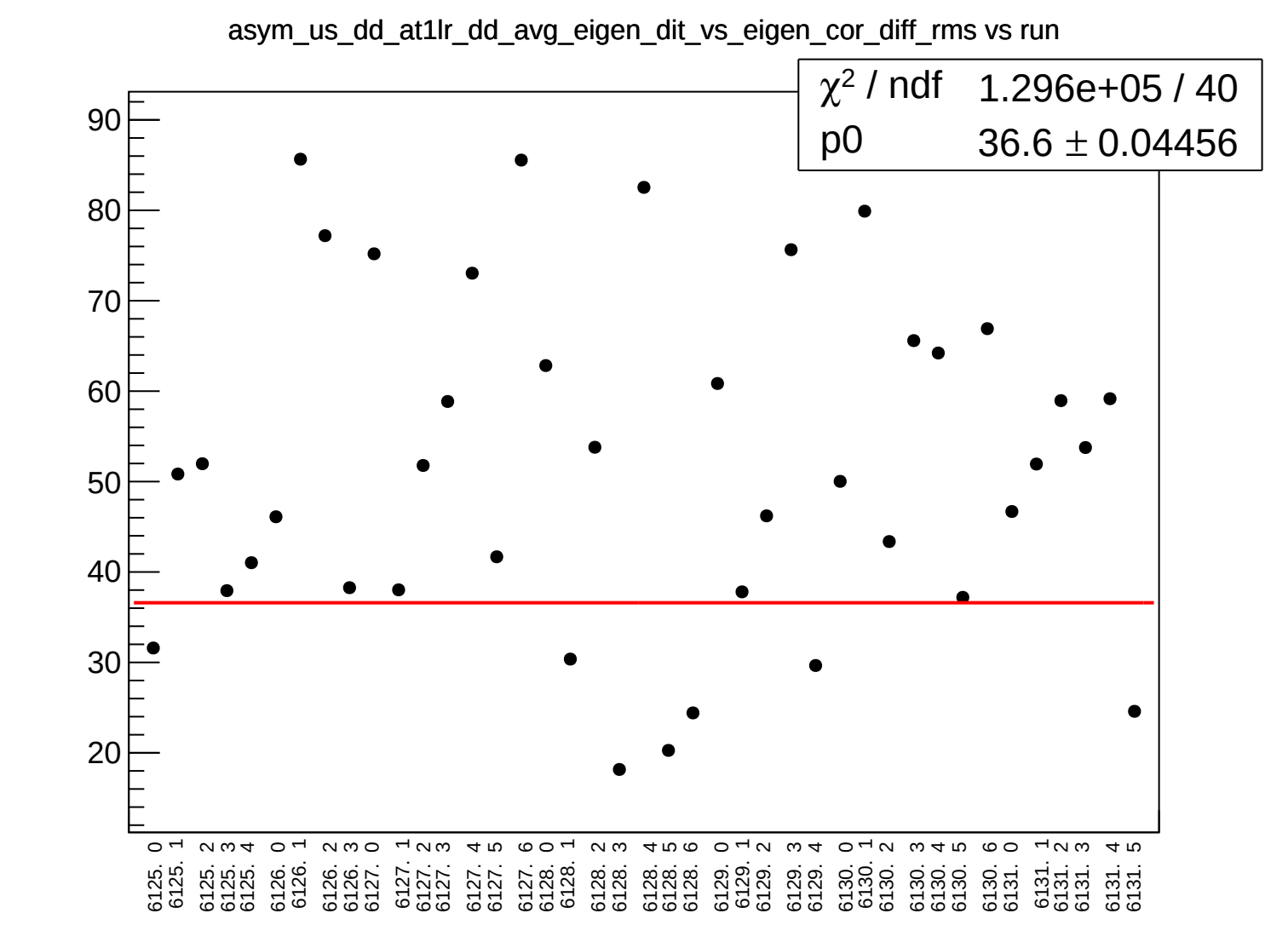

pull1D
Entries 41
Mean 0.003558
Std Dev 0.7883
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

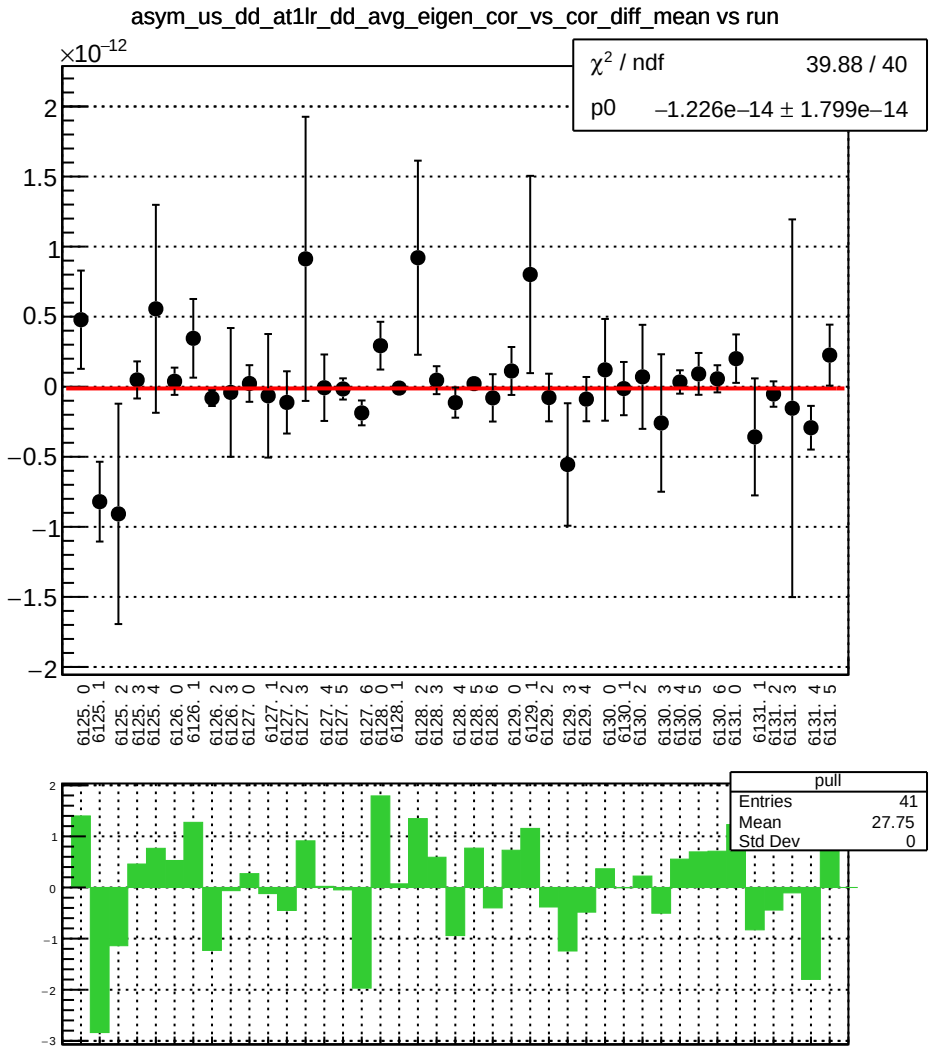

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2315 / 40
p0 0.001732 ± 1.934e−06
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

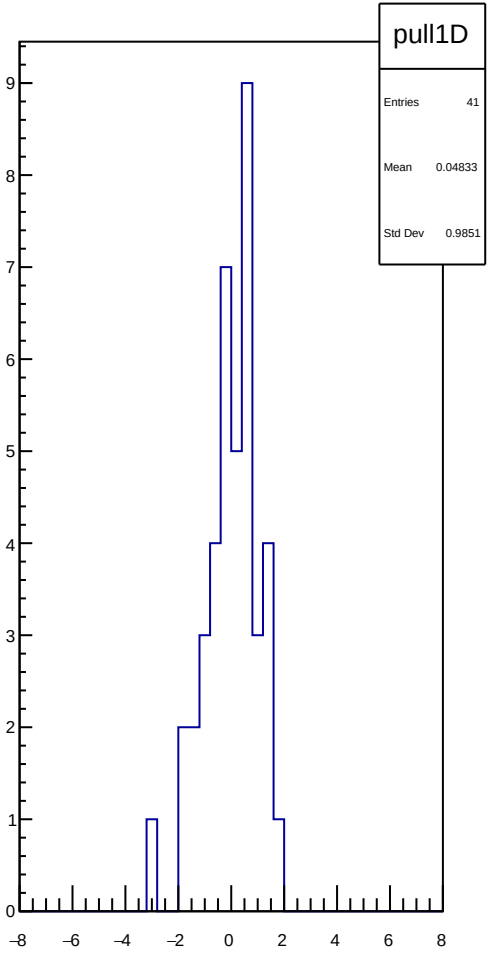

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 26.19 / 40
p0 −0.02885 ± 0.06302
pull
Entries 41
Mean 8.725
Std Dev 12.91
pull1D
Entries 41
Mean 0.08764
Std Dev 0.7944

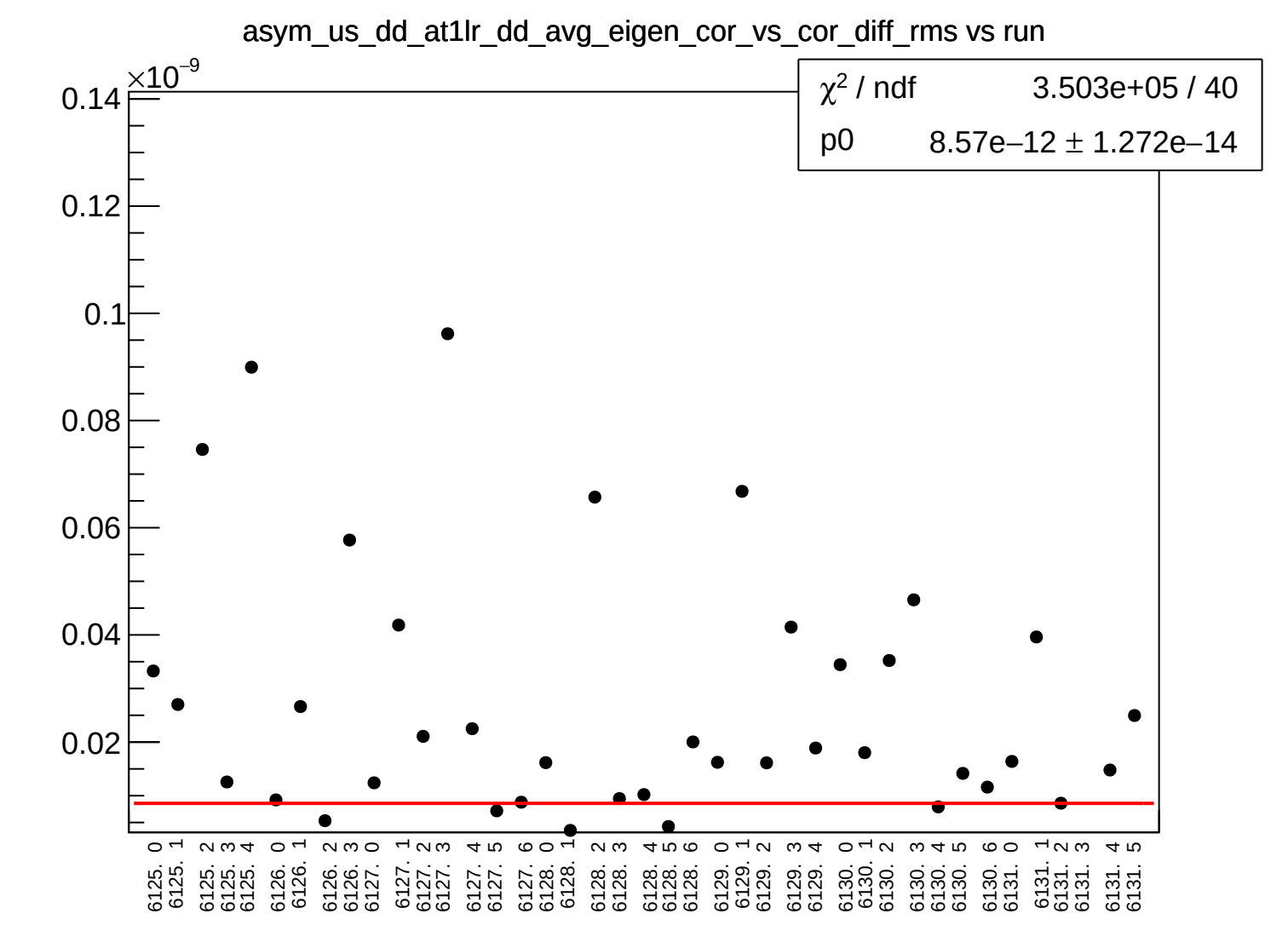

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.296e+05 / 40
p0 36.6 ± 0.04456
90
80
70
60
50
40
30
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

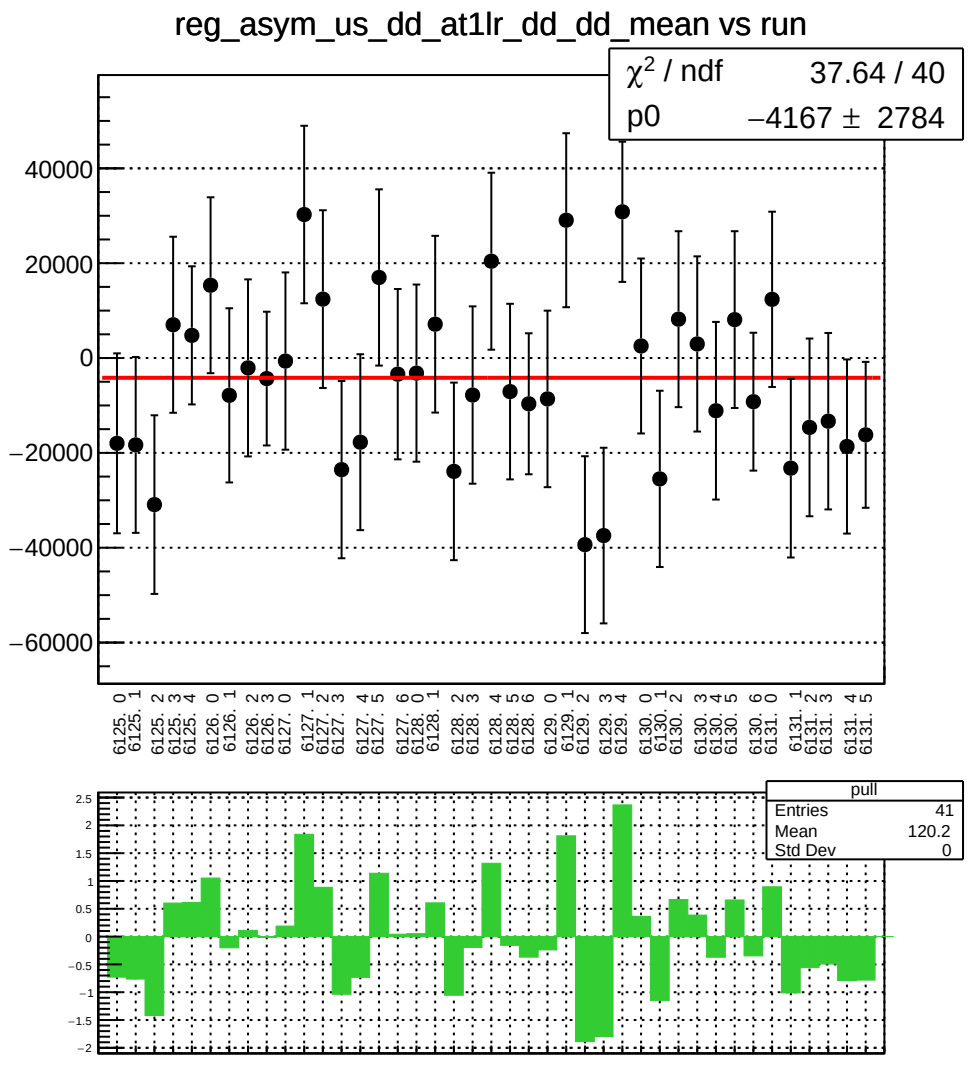

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 26.19 / 40
p0 −0.02885 ± 0.06302
pull
Entries 41
Mean 8.725
Std Dev 12.91
pull1D
Entries 41
Mean 0.08764
Std Dev 0.7944

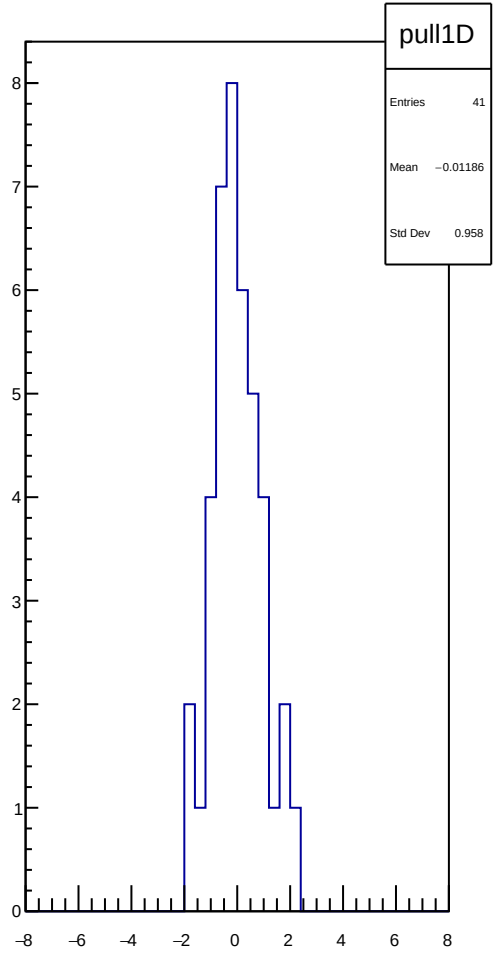

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.296e+05 / 40
p0 36.6 ± 0.04456
90
80
70
60
50
40
30
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

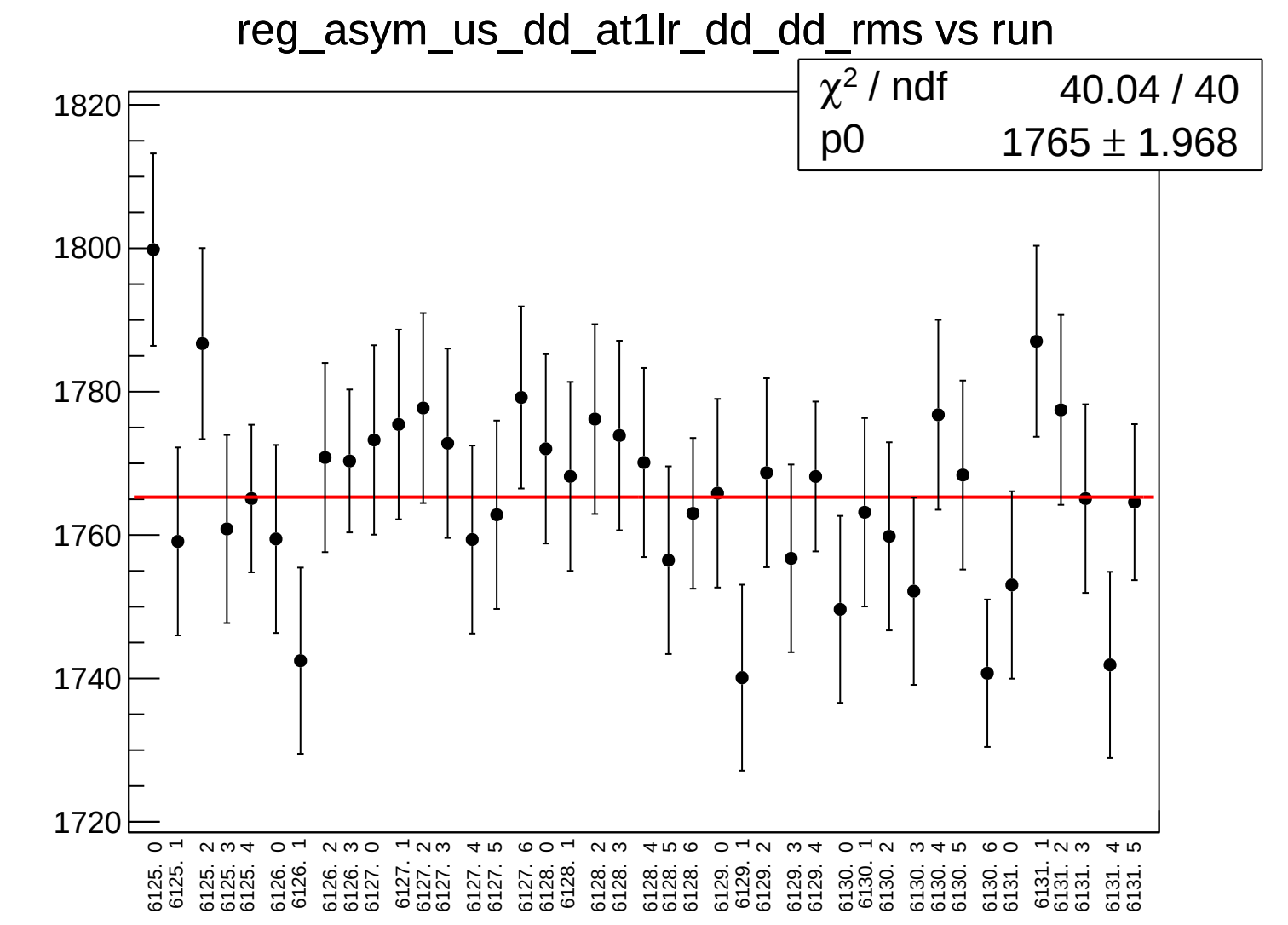

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 39.88 / 40
p0 −1.226e−14 ± 1.799e−14
pull
Entries 41
Mean 27.75
Std Dev 0

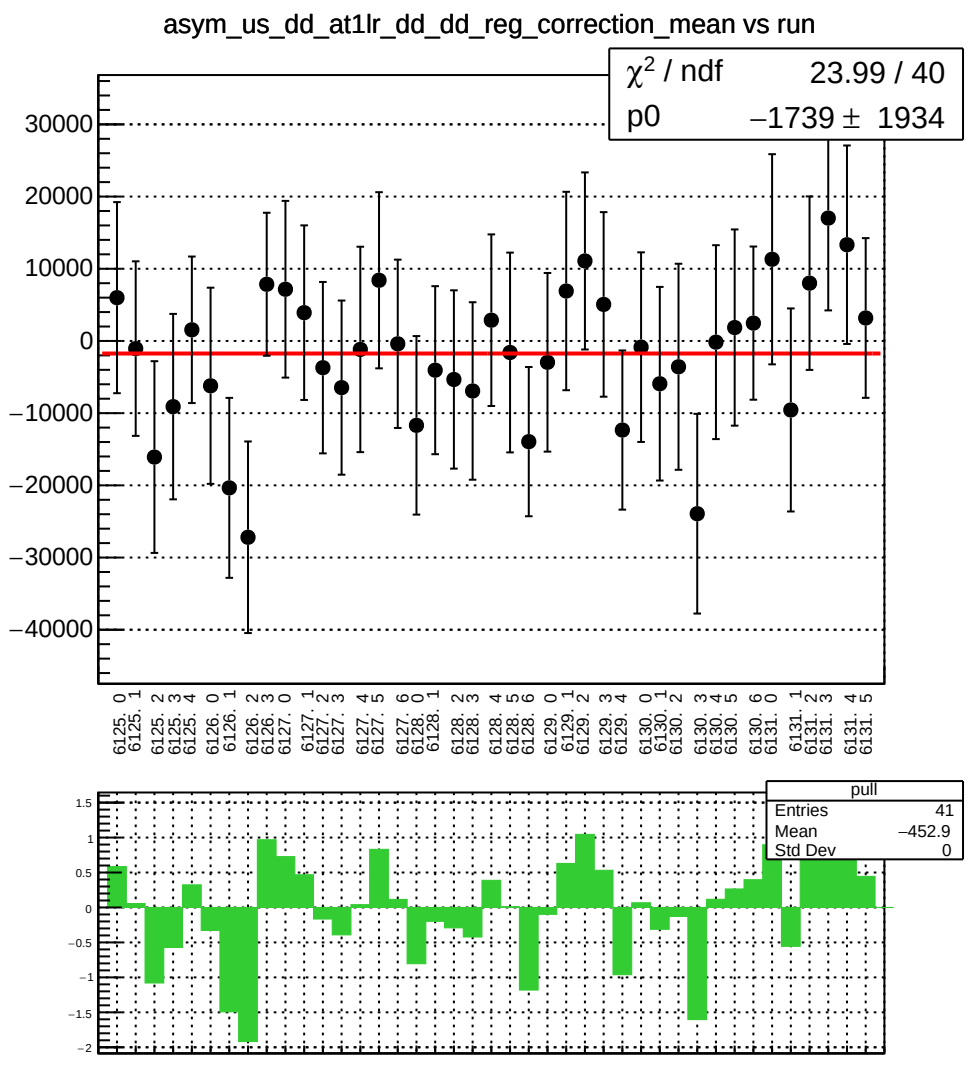

pull1D
Entries 41
Mean 0.04833
Std Dev 0.9851

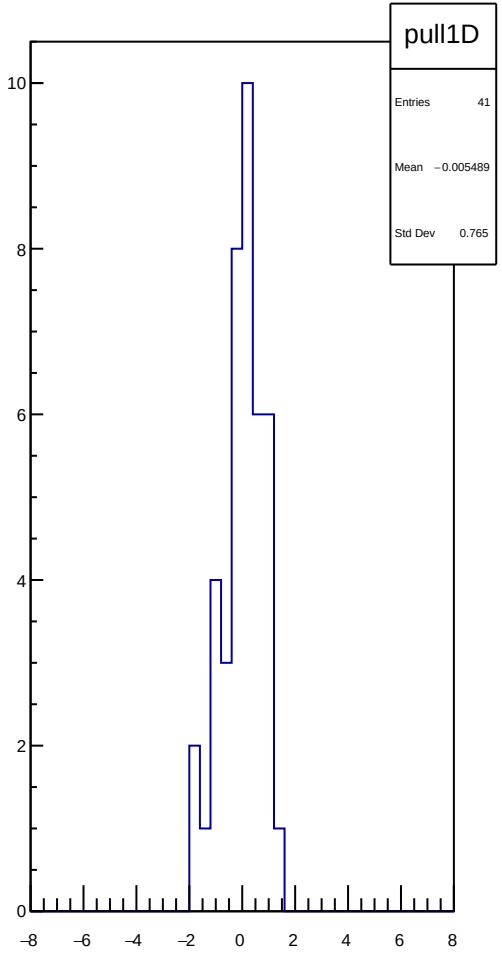

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.503e+05 / 40
p0 8.57e−12 ± 1.272e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

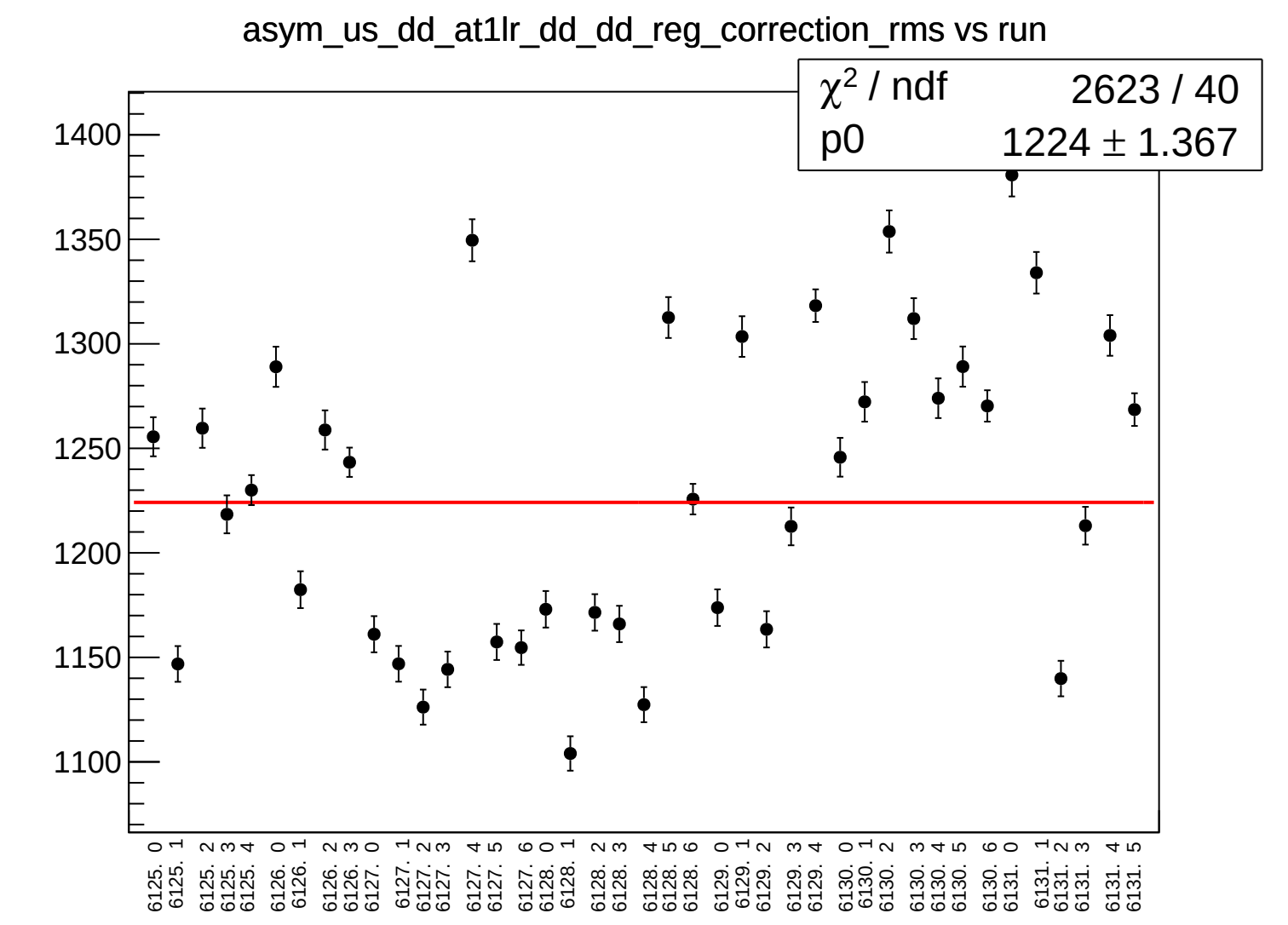

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 37.64 / 40
p0 −4167 ± 2784
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 120.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

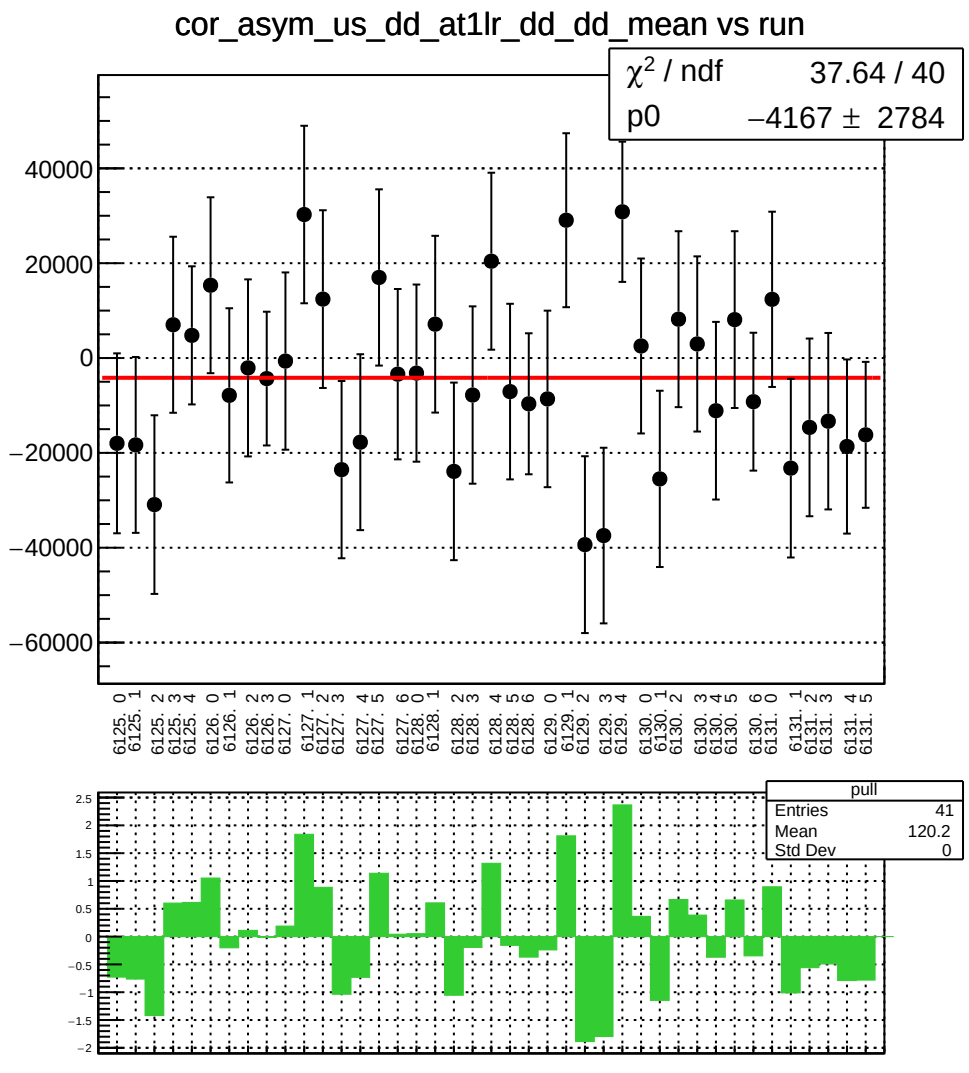

pull1D
Entries 41
Mean −0.01186
Std Dev 0.958
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

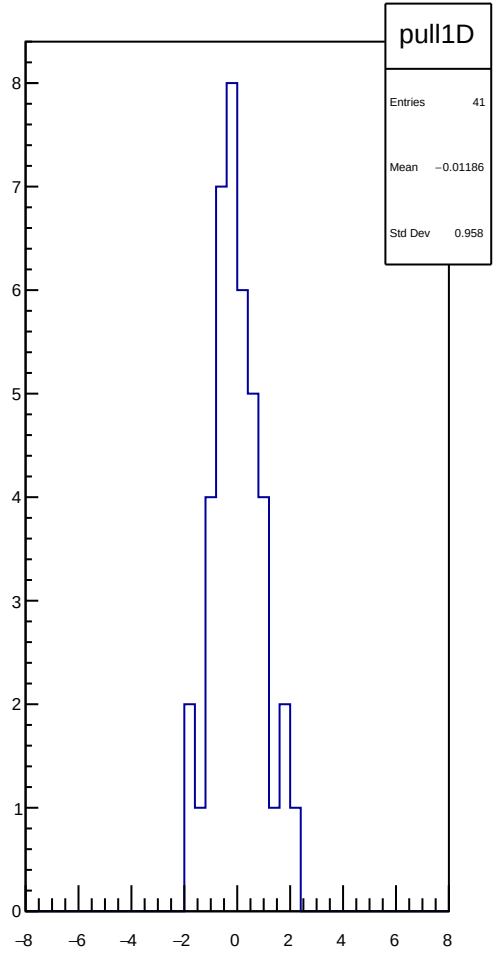

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 40.04 / 40
p0 1765 ± 1.968
1820
1800
1780
1760
1740
1720
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

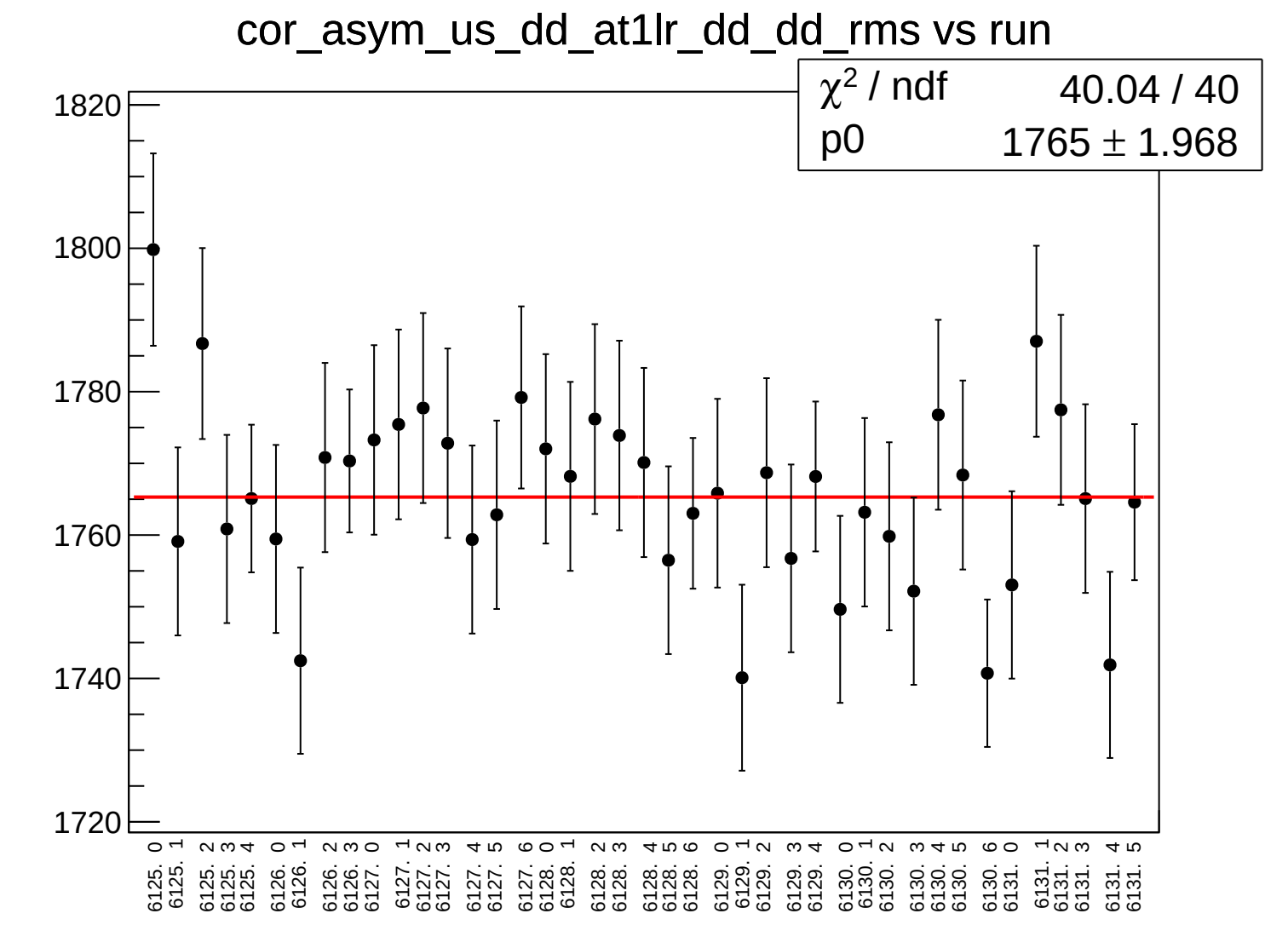

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 23.99 / 40
p0 −1739 ± 1934
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −452.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

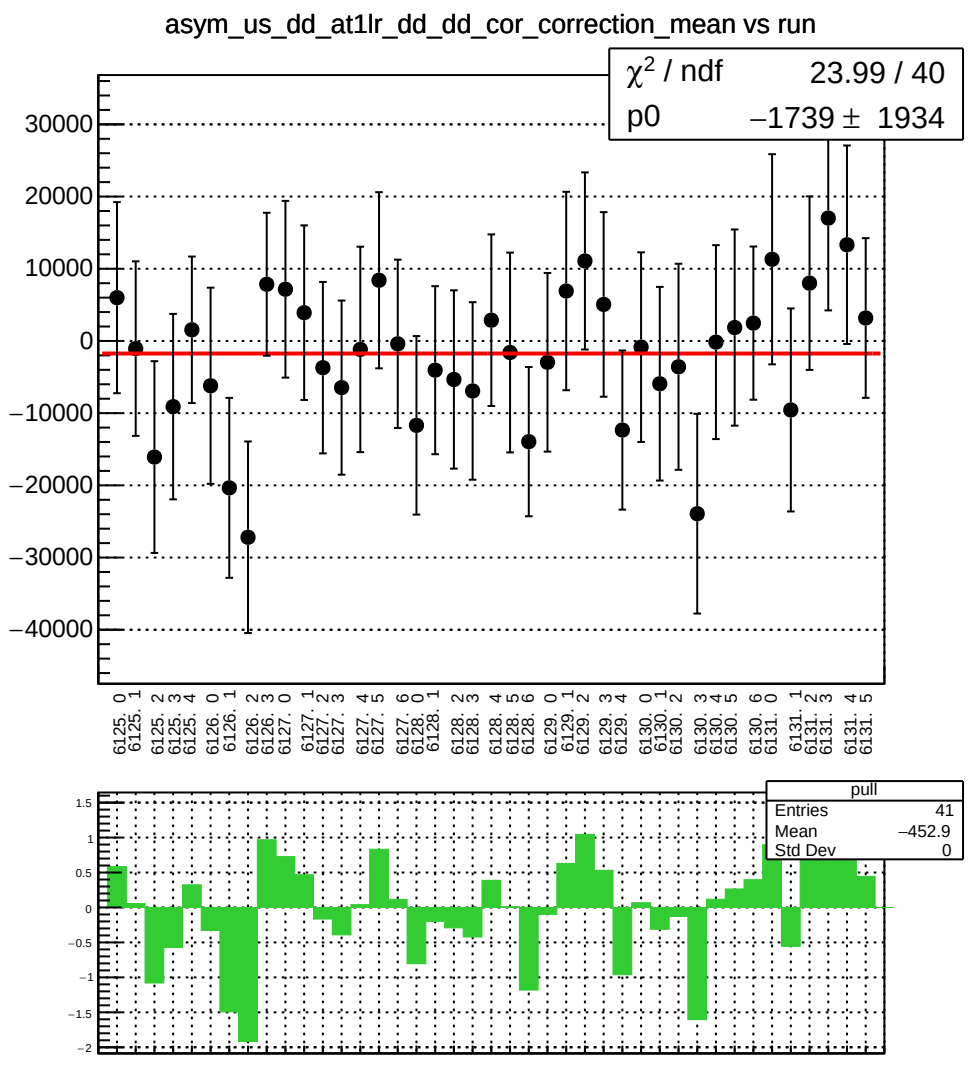

pull1D
Entries 41
Mean −0.005489
Std Dev 0.765
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

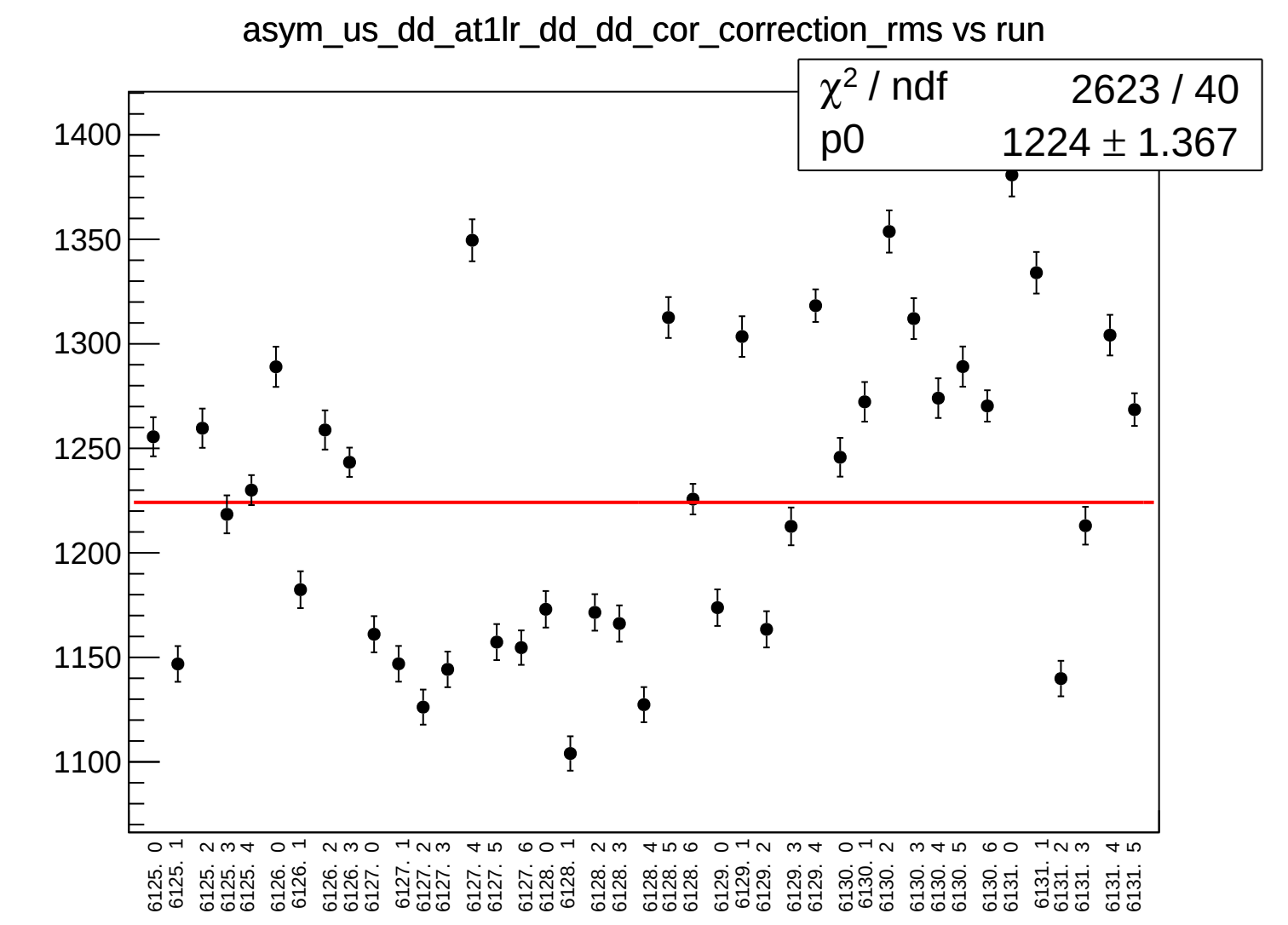

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 2623 / 40
p0 1224 ± 1.367
1400
1350
1300
1250
1200
1150
1100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

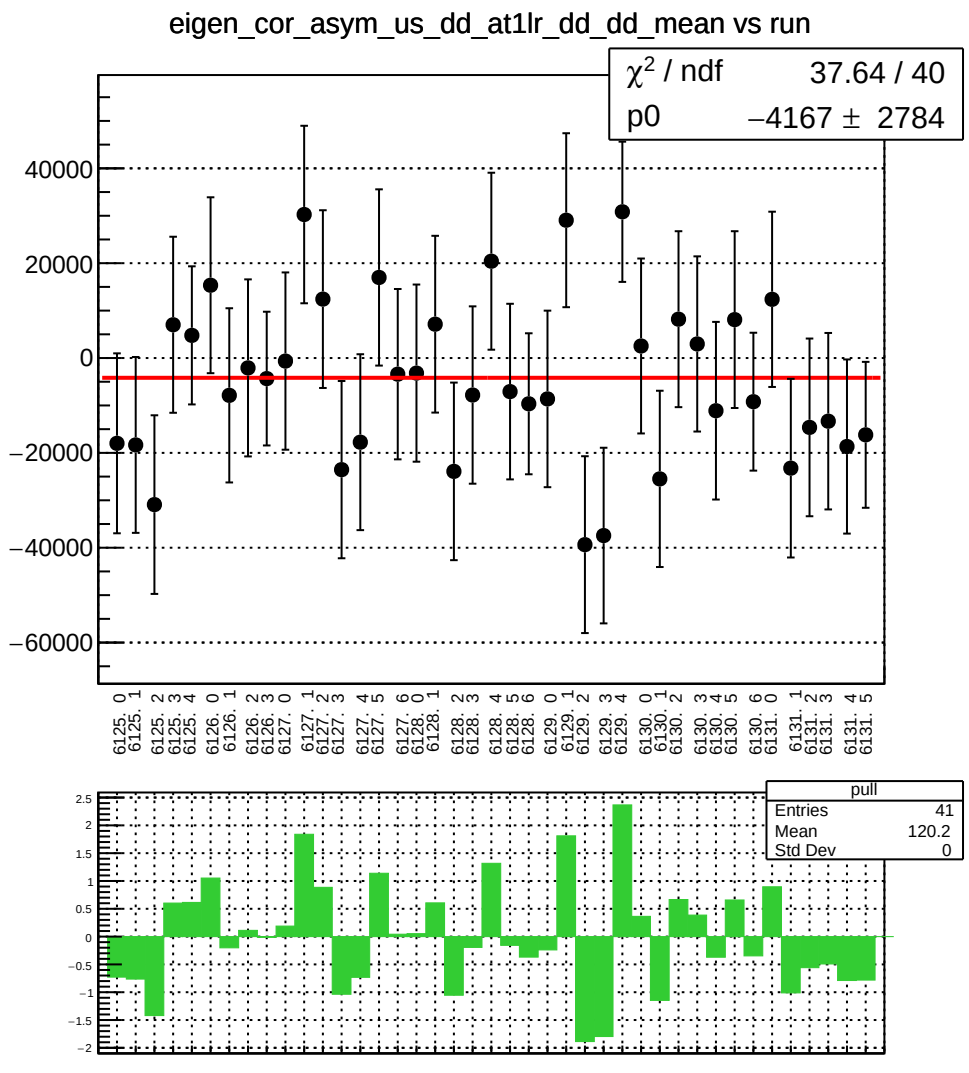

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 37.64 / 40
p0 −4167 ± 2784
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 120.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

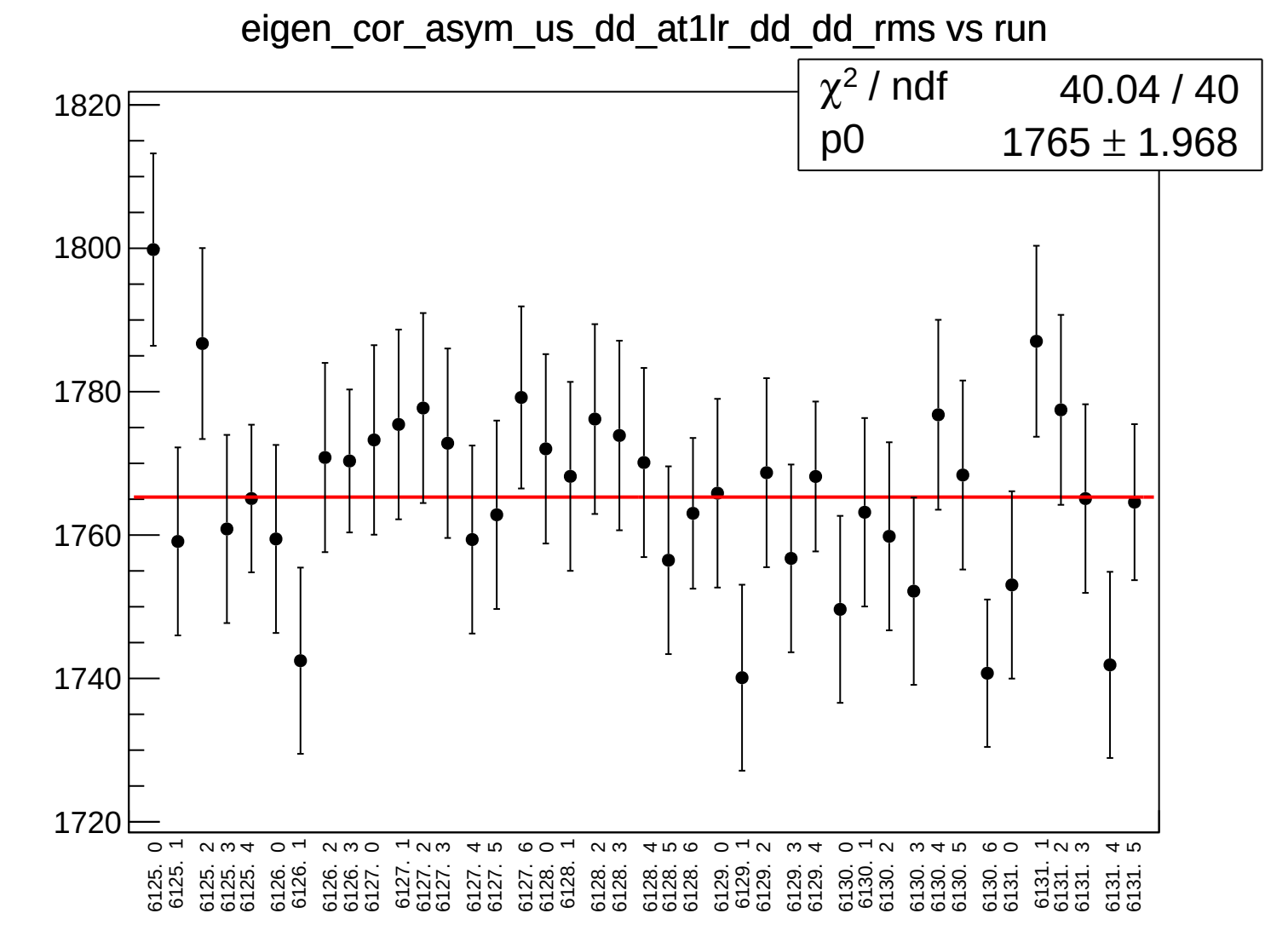

pull1D
Entries 41
Mean −0.01186
Std Dev 0.958
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

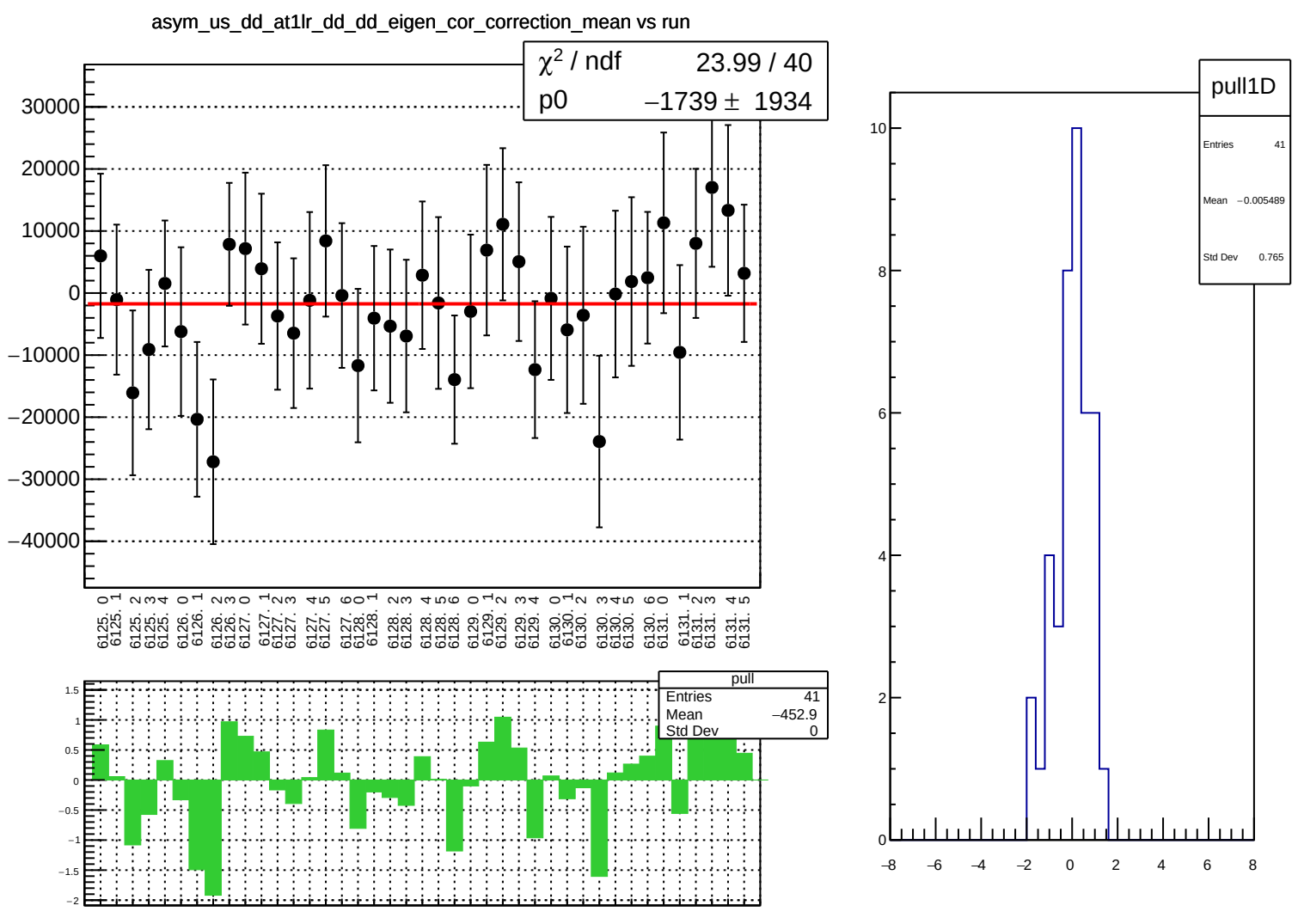

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 40.04 / 40
p0 1765 ± 1.968
1820
1800
1780
1760
1740
1720
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

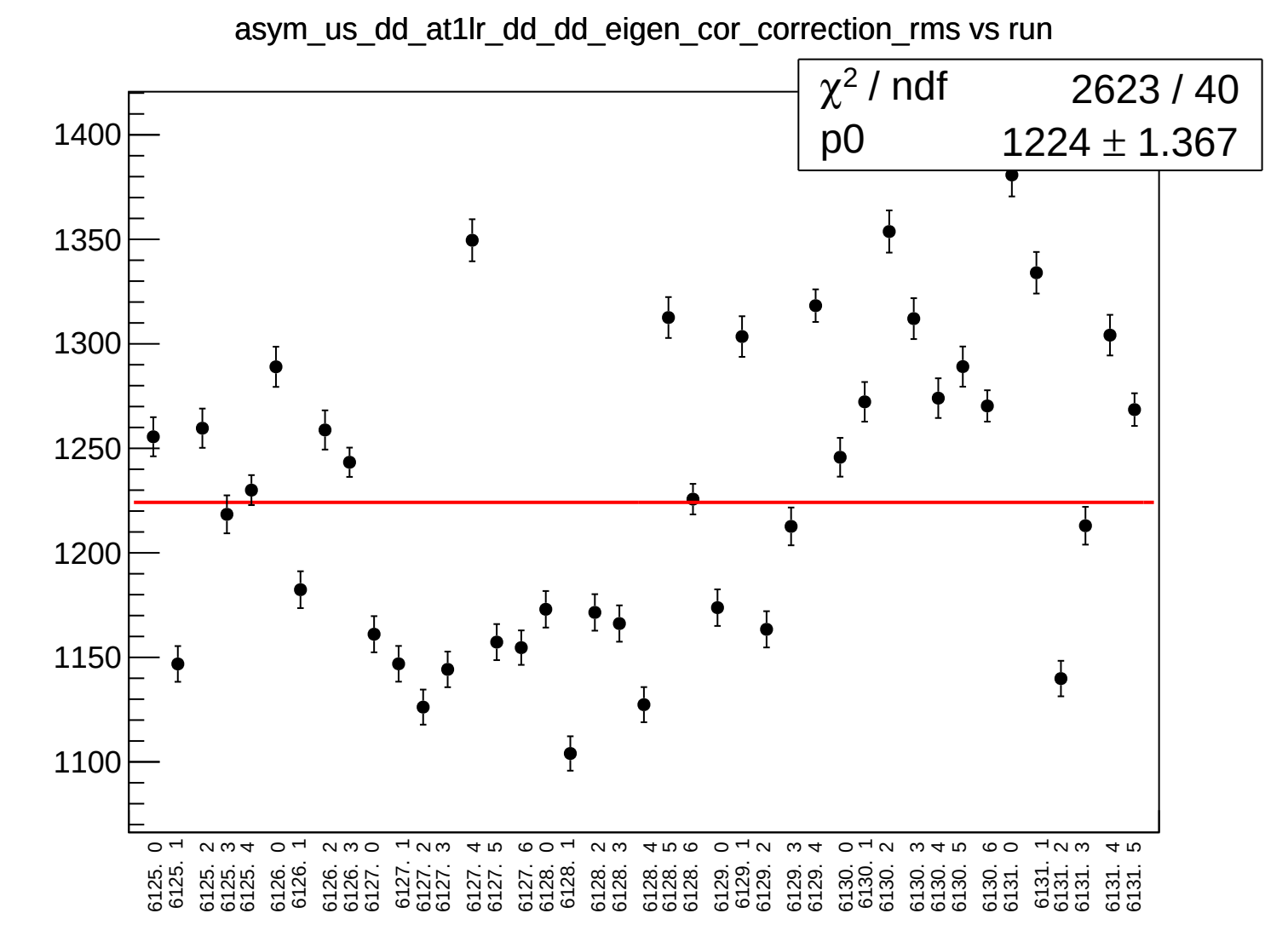

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 23.99 / 40
p0 −1739 ± 1934
pull
Entries 41
Mean −452.9
Std Dev 0
pull1D
Entries 41
Mean −0.005489
Std Dev 0.765

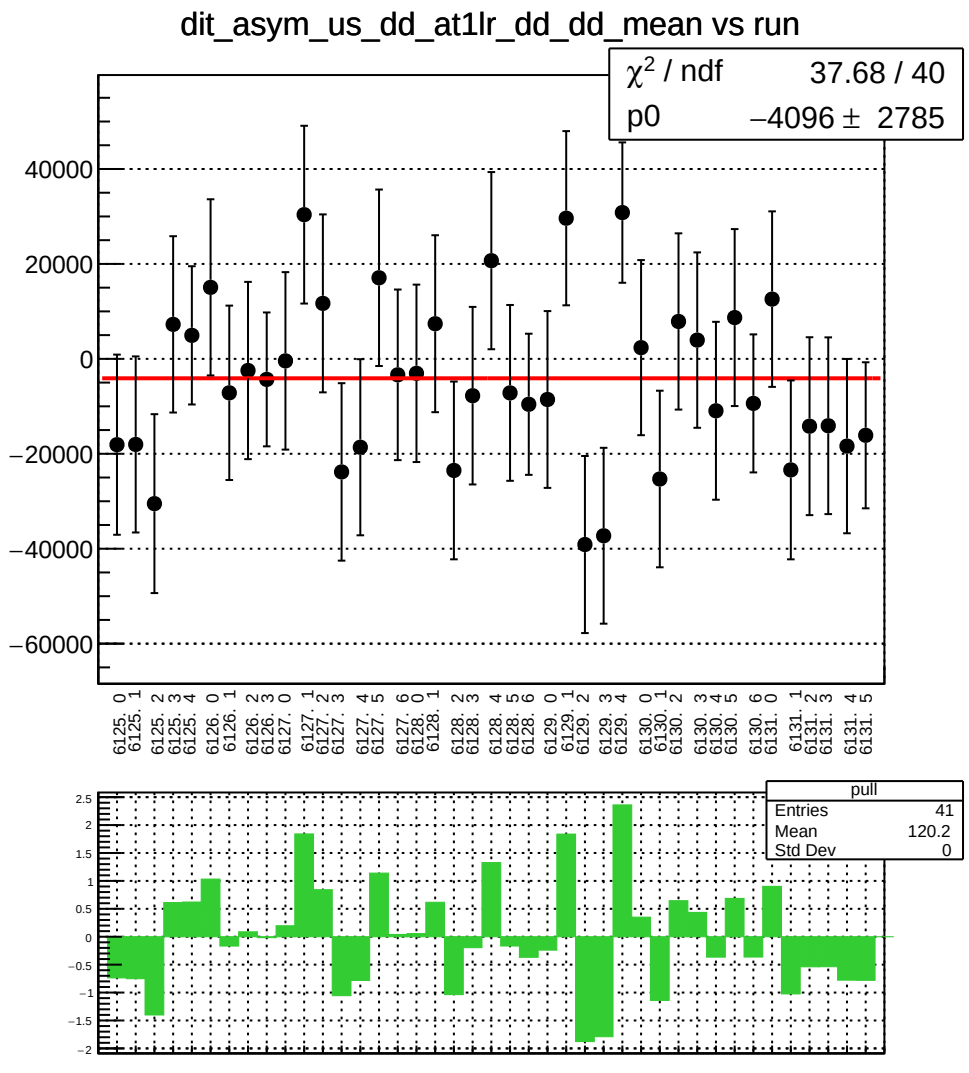

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 2623 / 40
p0 1224 ± 1.367
1400
1350
1300
1250
1200
1150
1100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

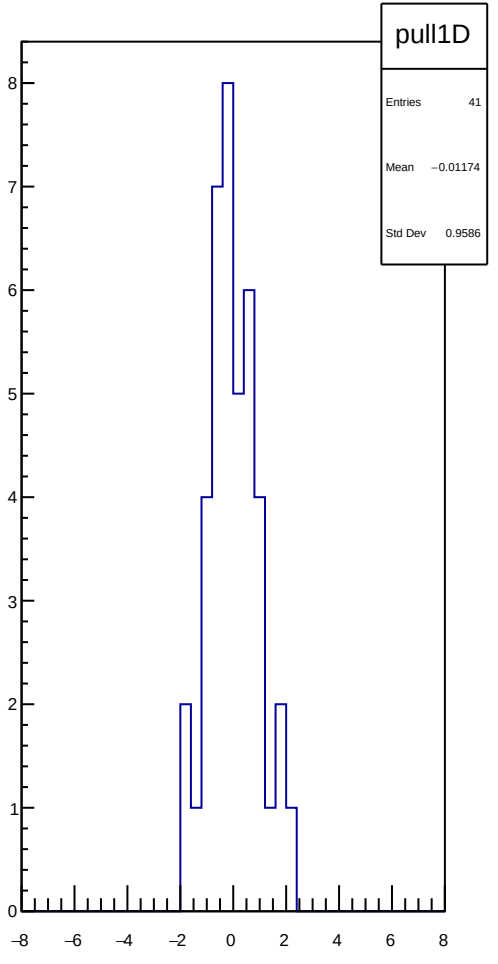

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 37.64 / 40
p0 −4167 ± 2784
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 120.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.01186
Std Dev 0.958
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

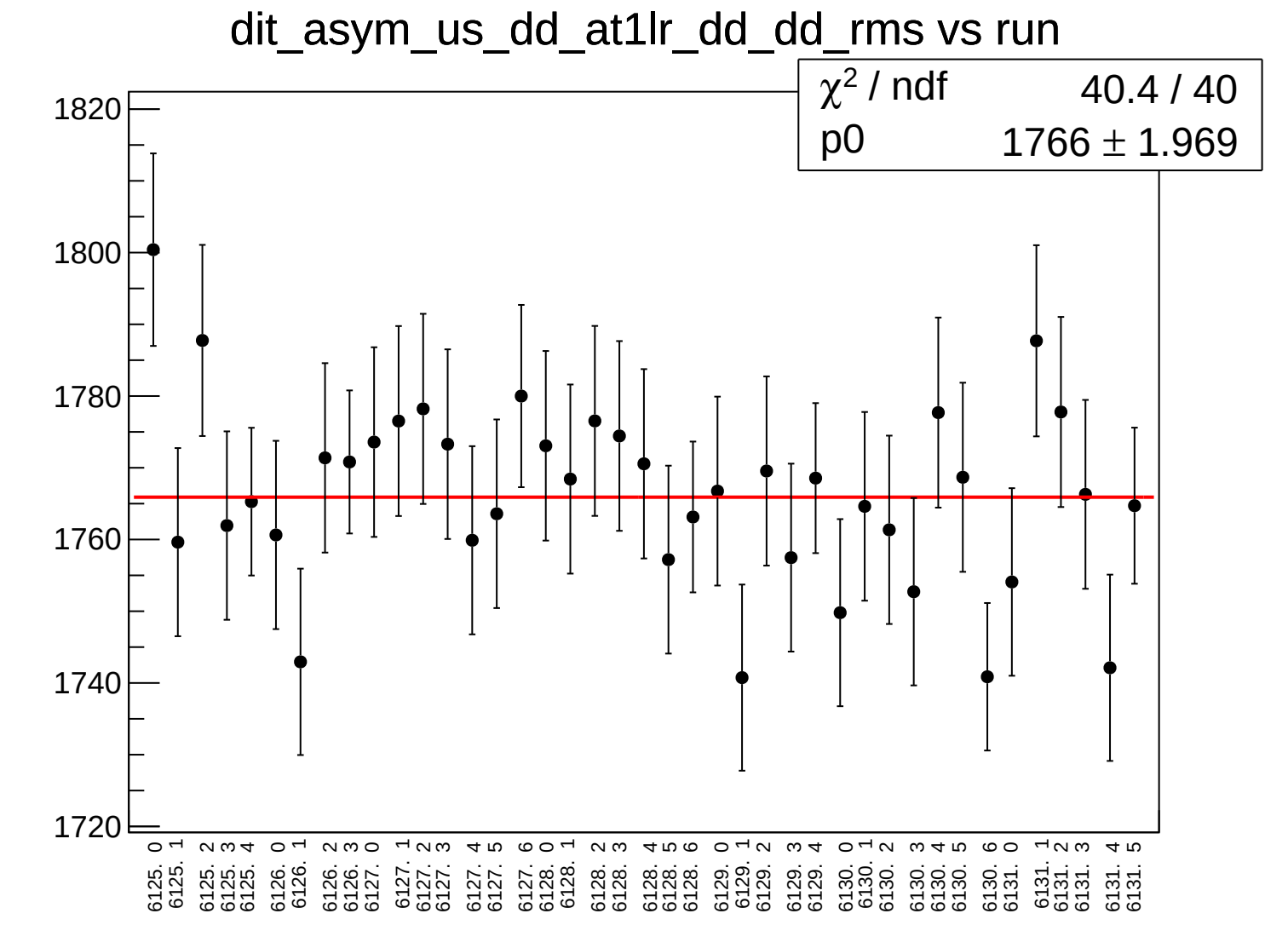

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 40.04 / 40
p0 1765 ± 1.968
1820
1800
1780
1760
1740
1720
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

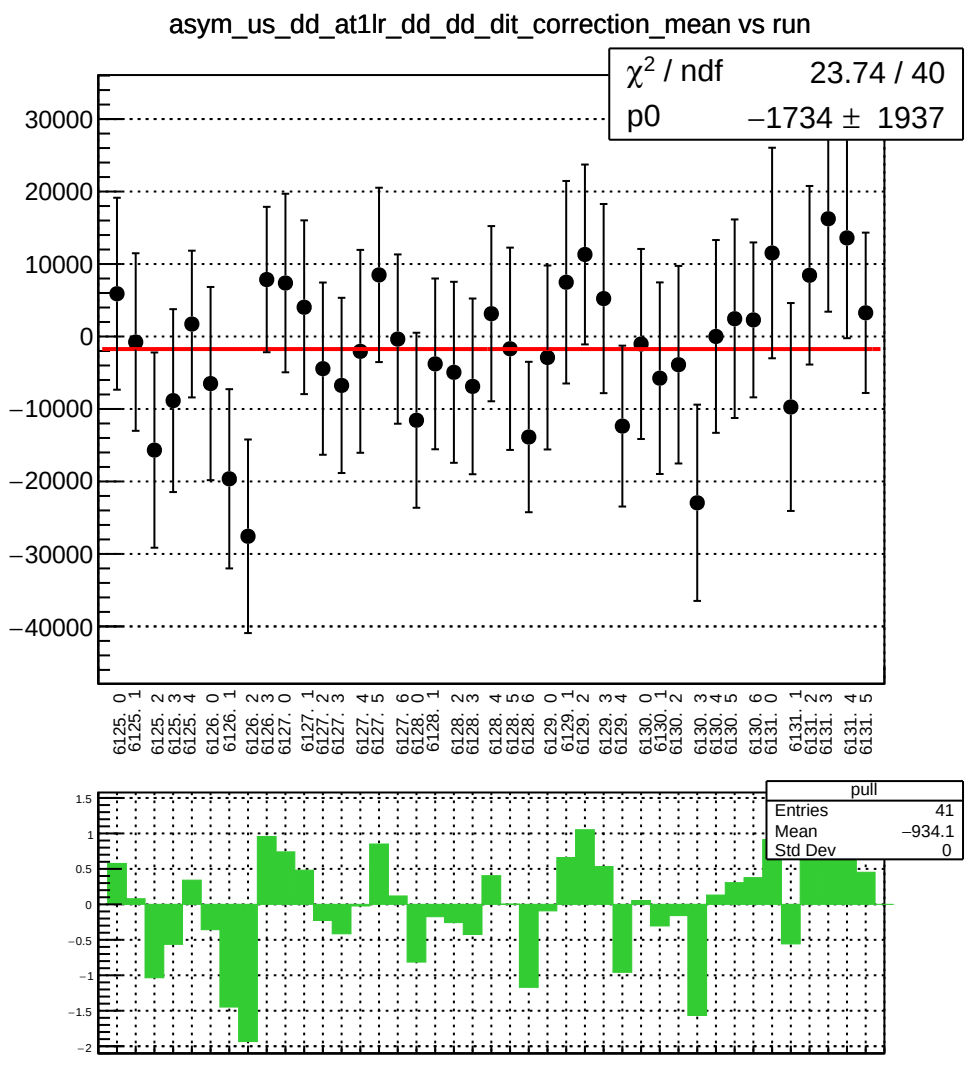

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 23.99 / 40
p0 −1739 ± 1934
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −452.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.005489
Std Dev 0.765
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

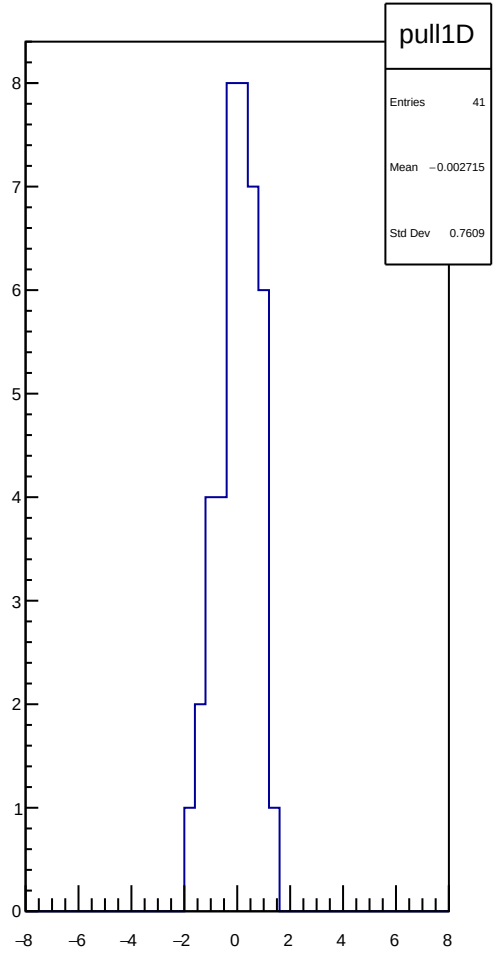

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2623 / 40
p0 1224 ± 1.367
1400
1350
1300
1250
1200
1150
1100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

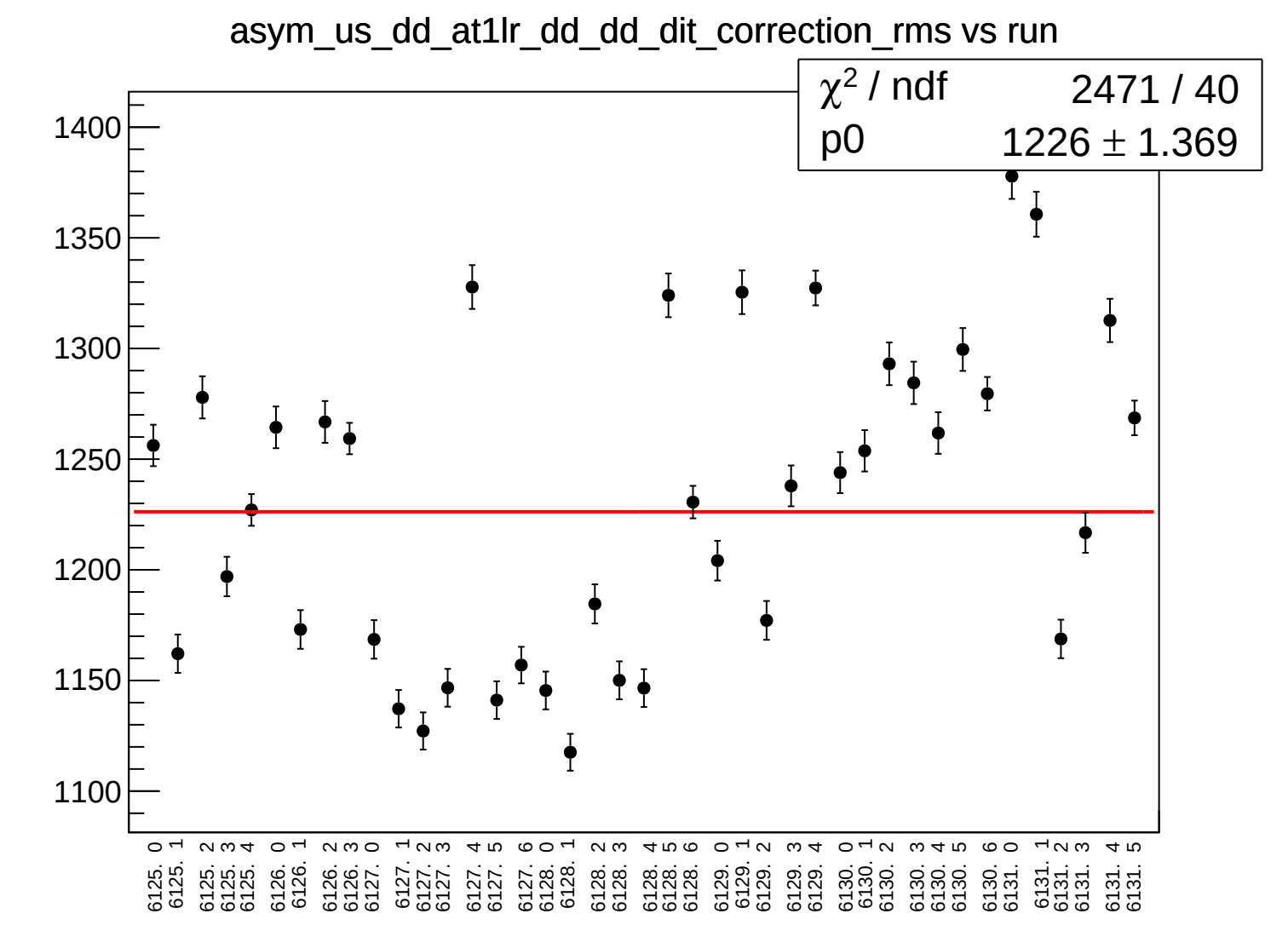

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 37.68 / 40
p0 −4096 ± 2785
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 120.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

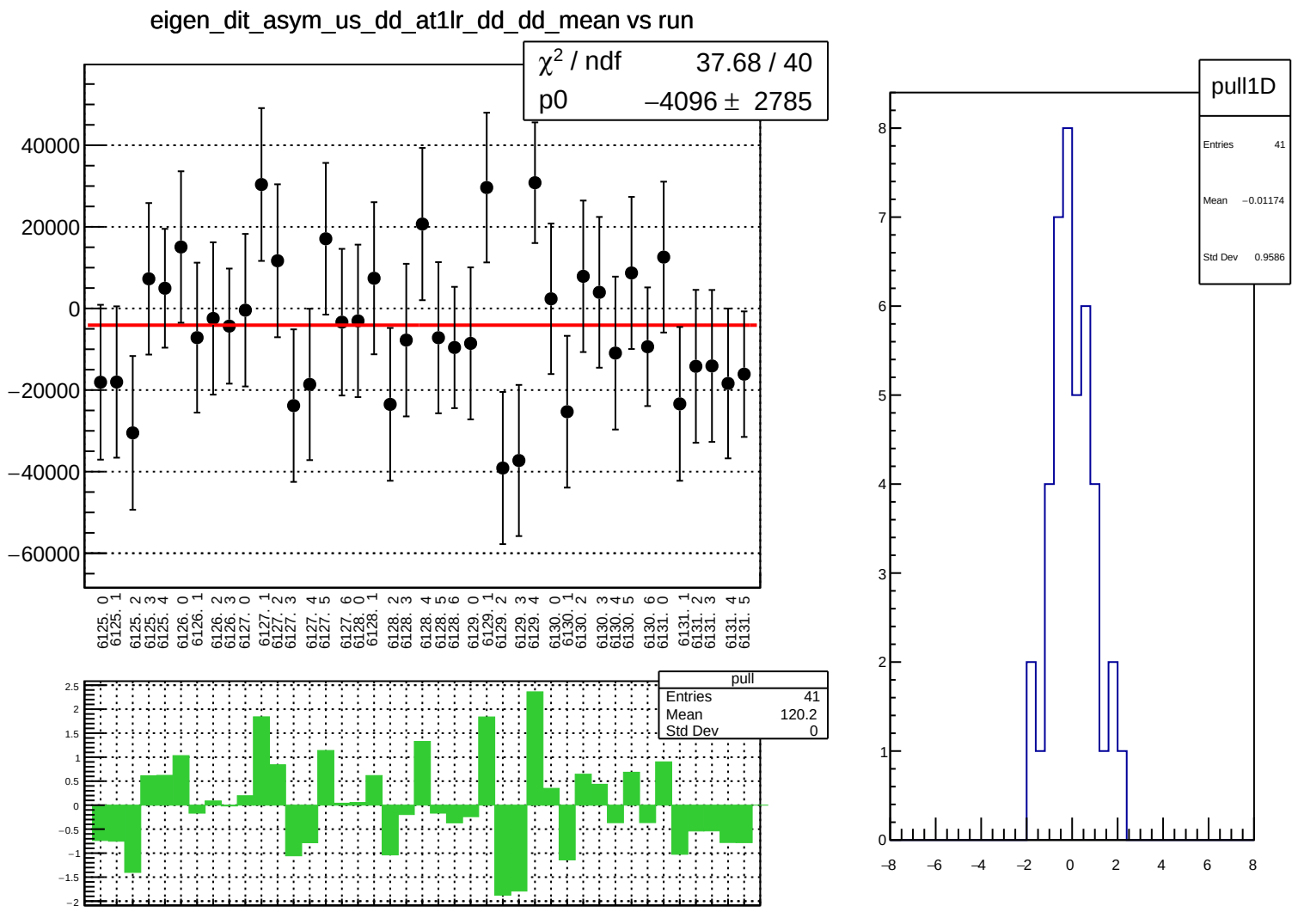

pull1D
Entries 41
Mean −0.01174
Std Dev 0.9586
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 40.4 / 40
p0 1766 ± 1.969
1820
1800
1780
1760
1740
1720
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 23.74 / 40
p0 −1734 ± 1937
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −934.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.002715
Std Dev 0.7609
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2471 / 40
p0 1226 ± 1.369
1400
1350
1300
1250
1200
1150
1100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 37.68 / 40
p0 −4096 ± 2785
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
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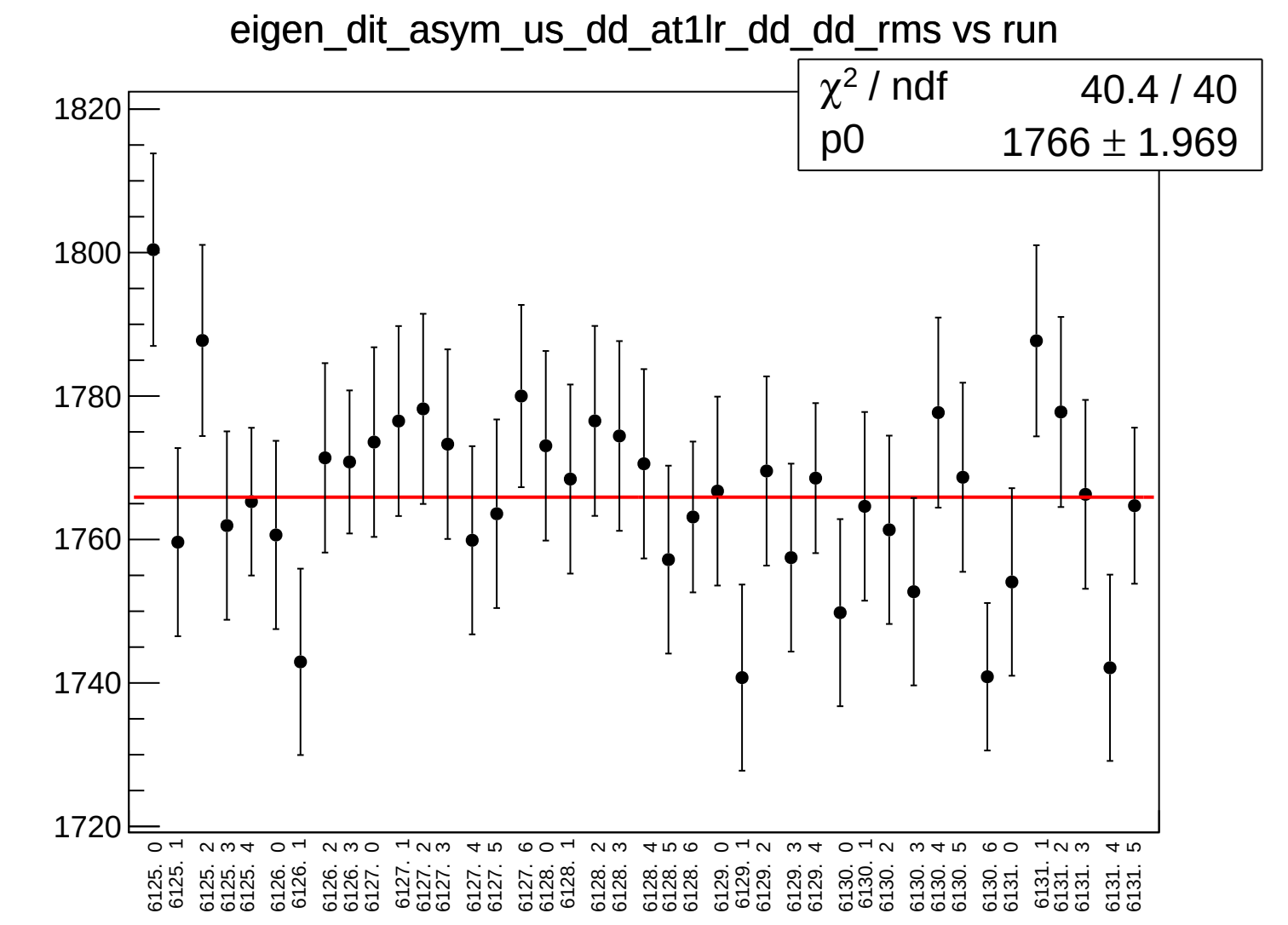
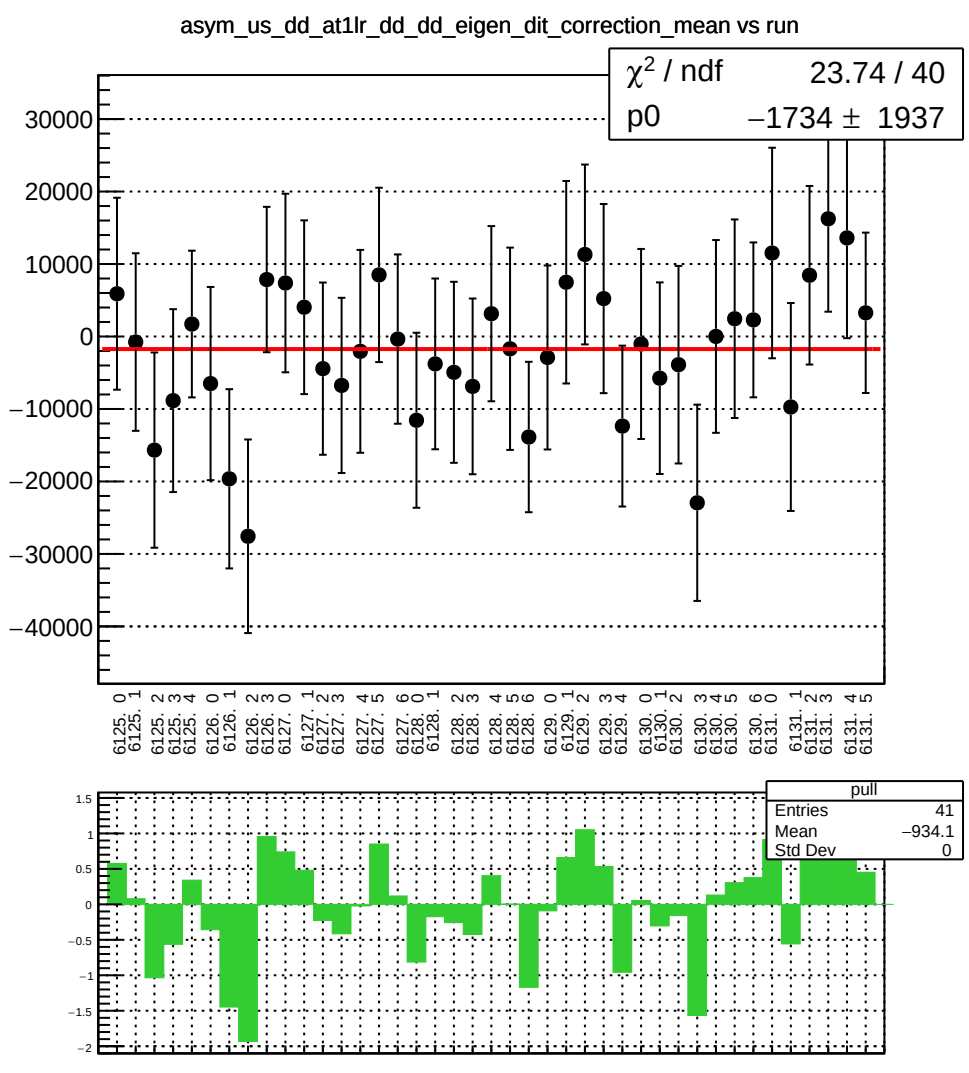
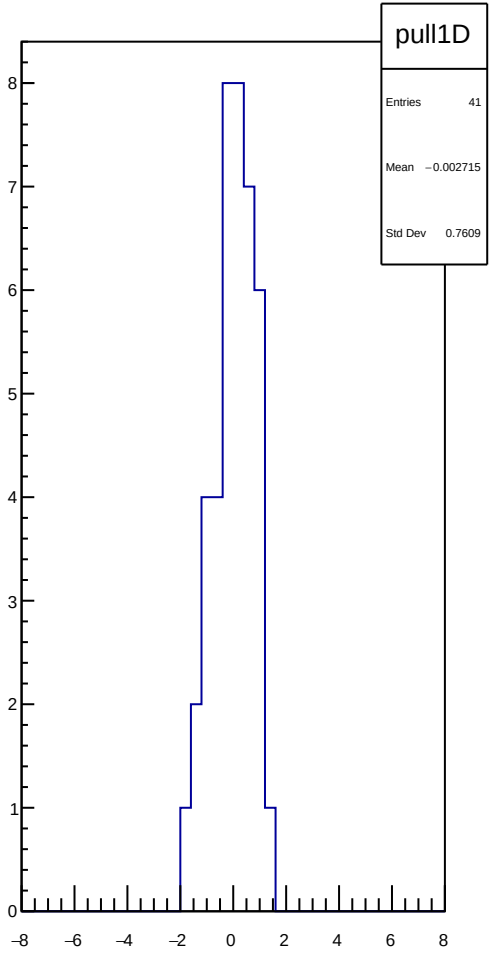
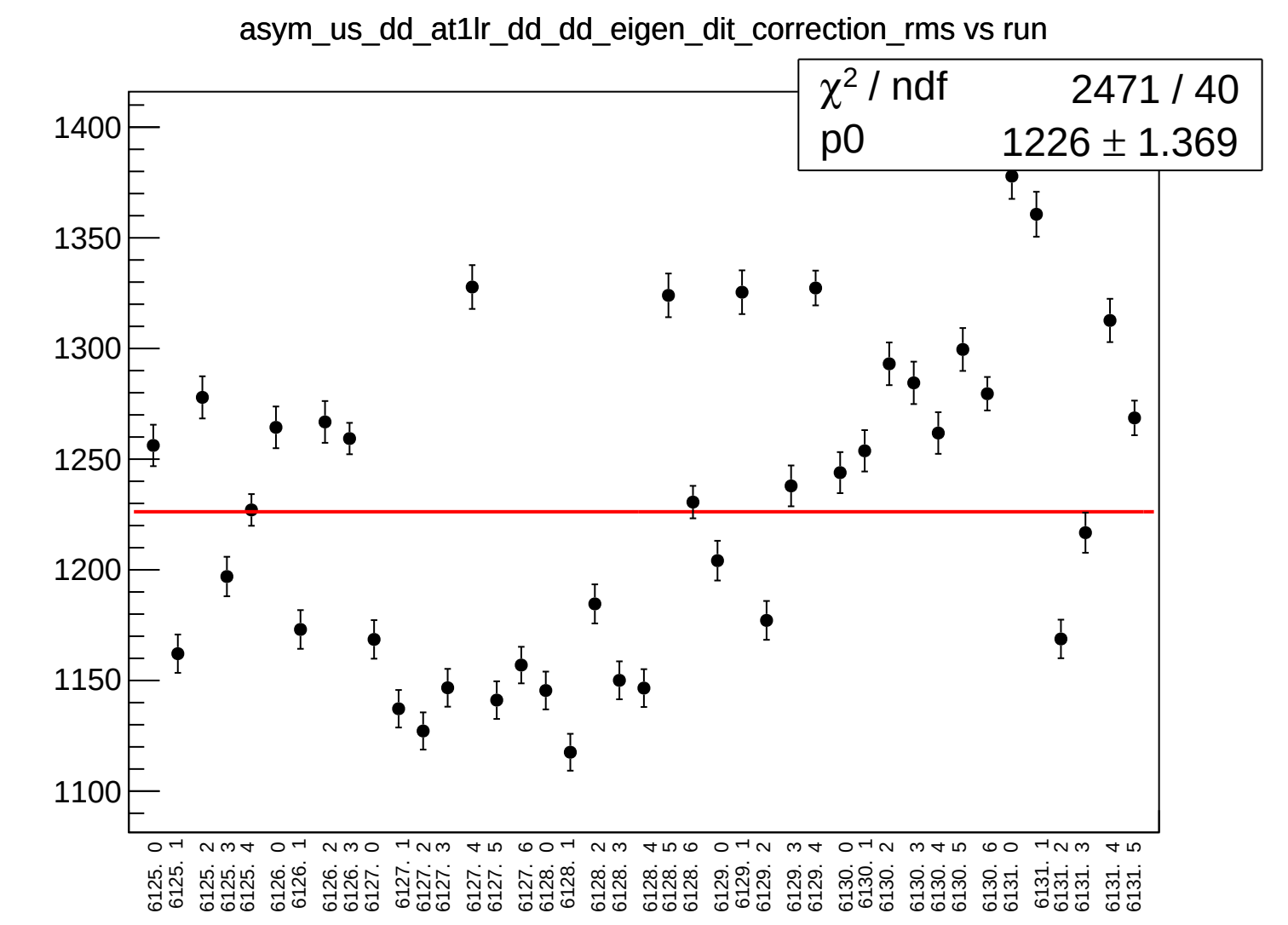
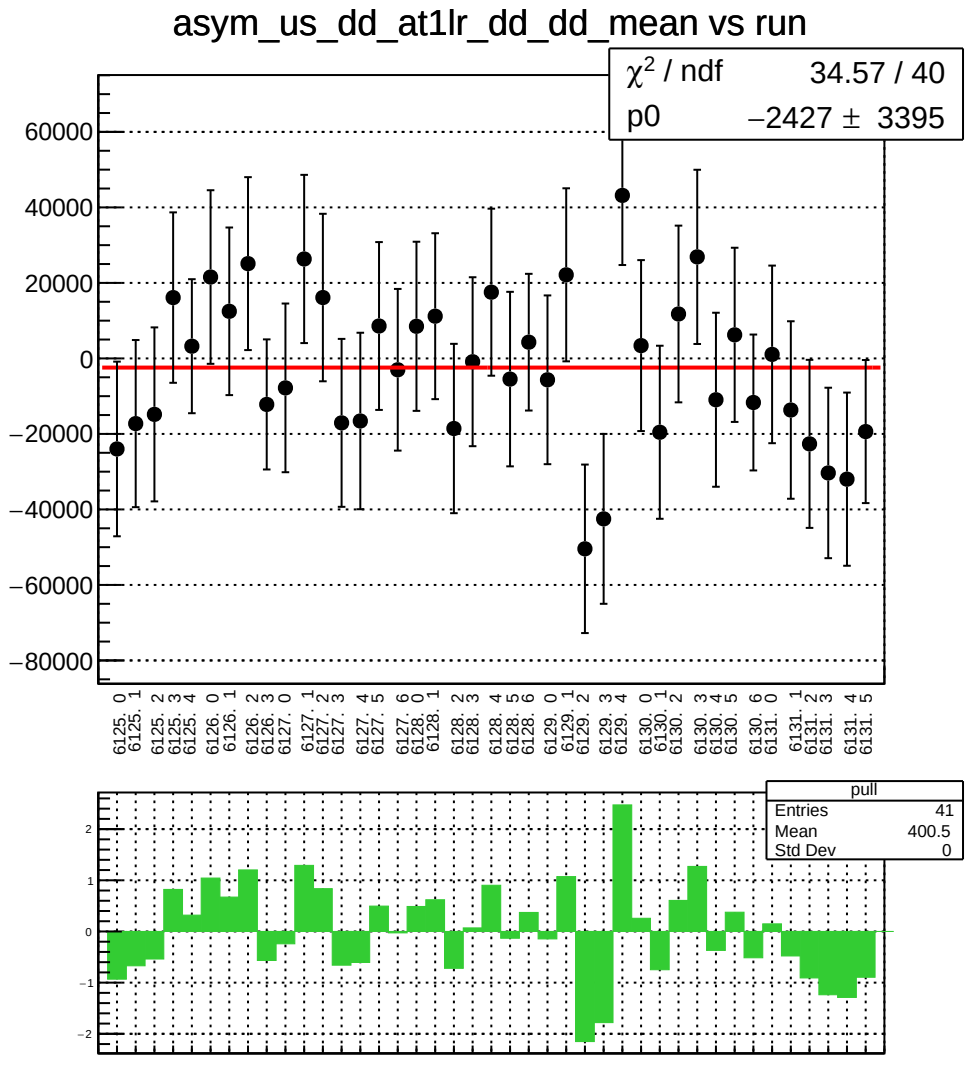
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 120.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.01174
Std Dev 0.9586
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

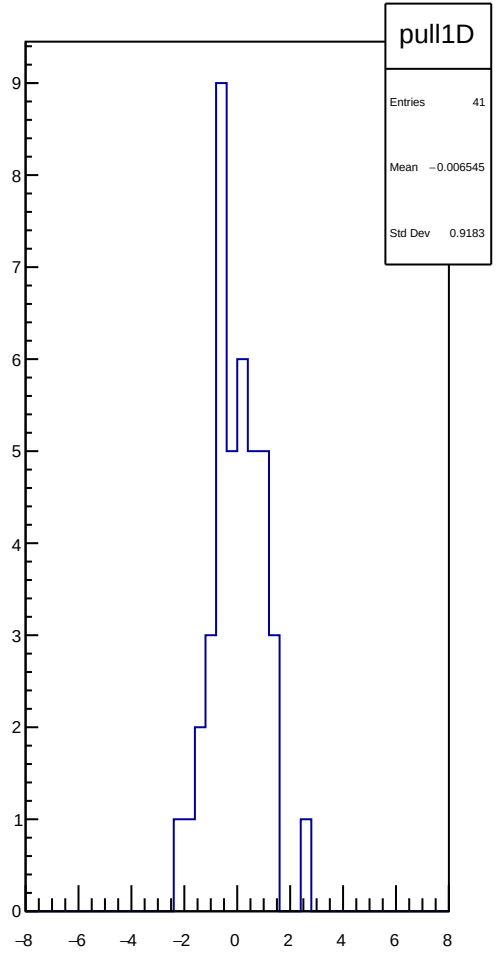

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 40.4 / 40
p0 1766 ± 1.969
1820
1800
1780
1760
1740
1720
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

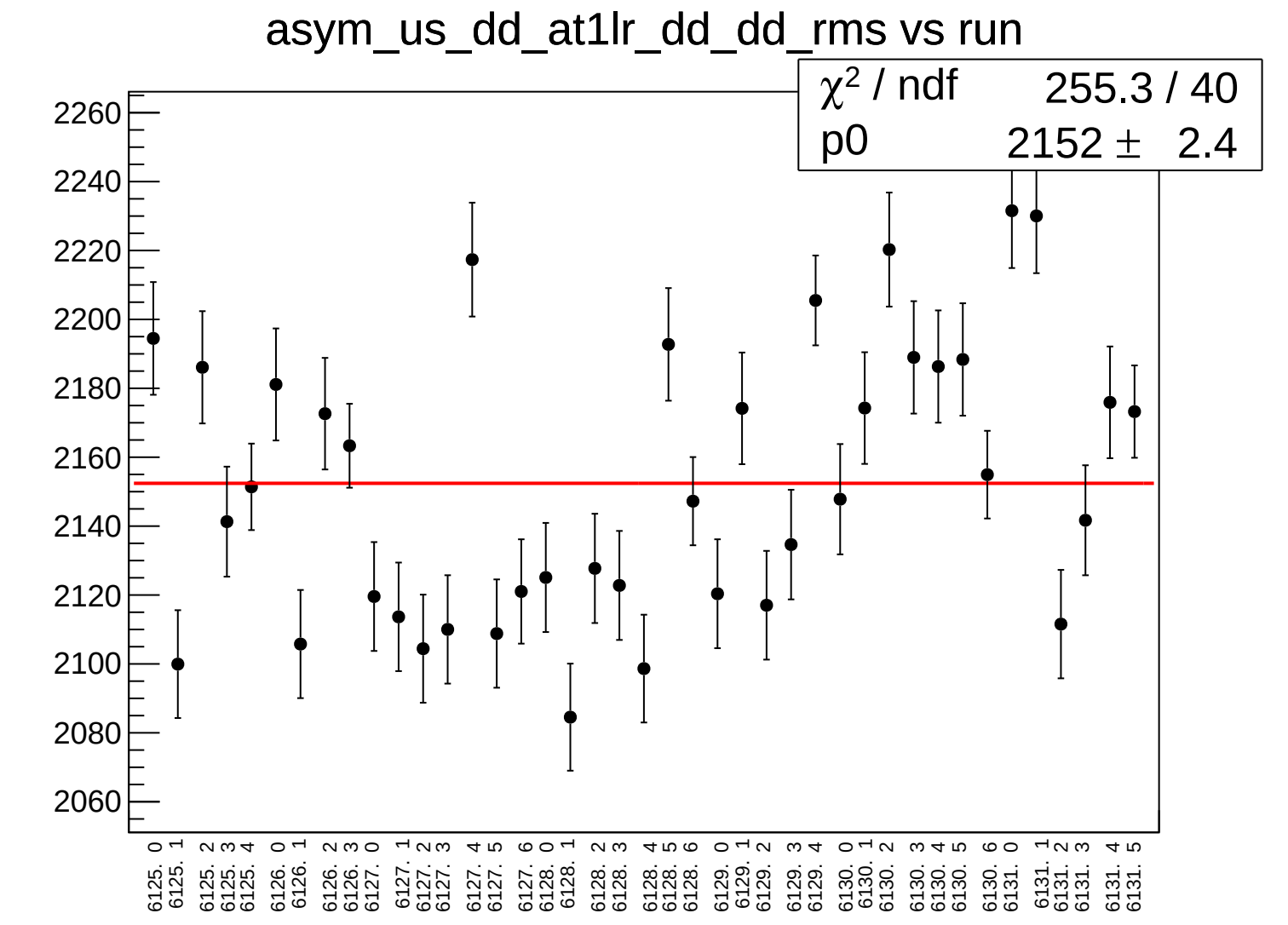

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 23.74 / 40
p0 −1734 ± 1937
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −934.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

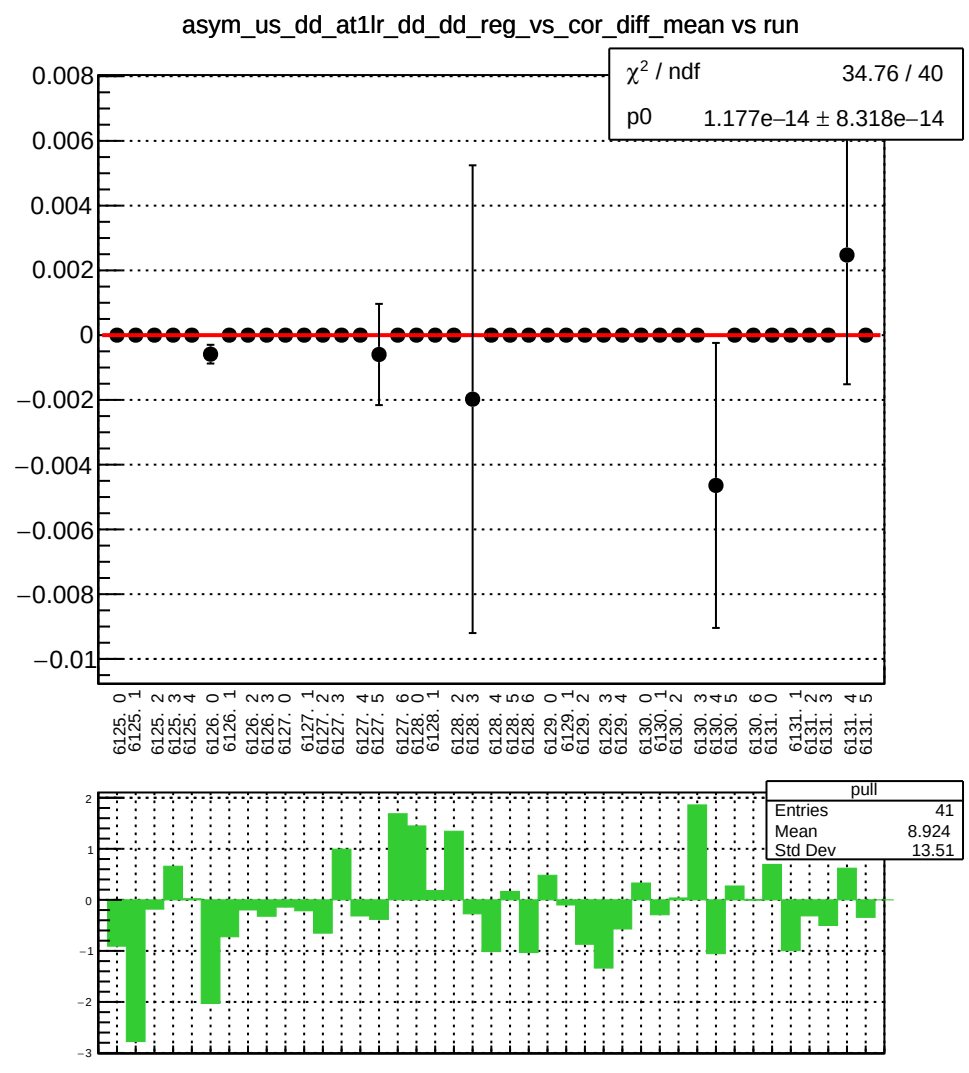

pull1D
Entries 41
Mean −0.002715
Std Dev 0.7609
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

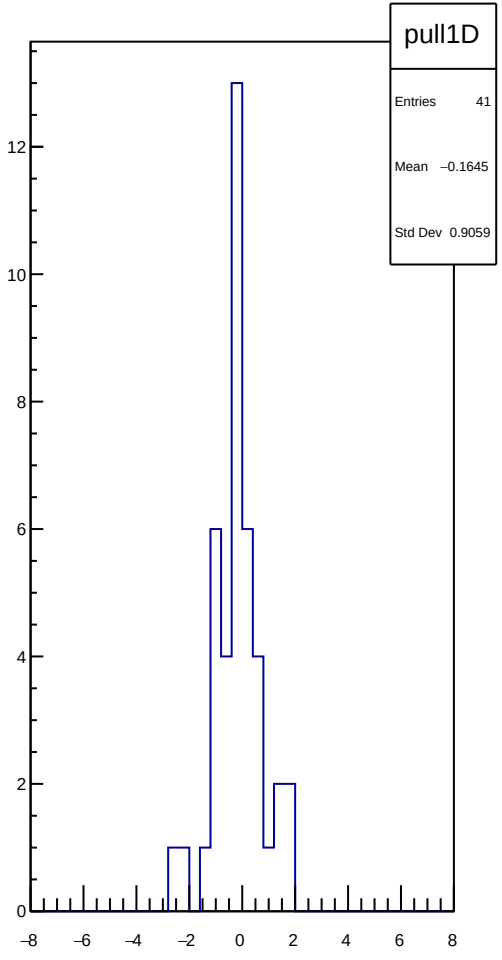

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2471 / 40
p0 1226 ± 1.369
1400
1350
1300
1250
1200
1150
1100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

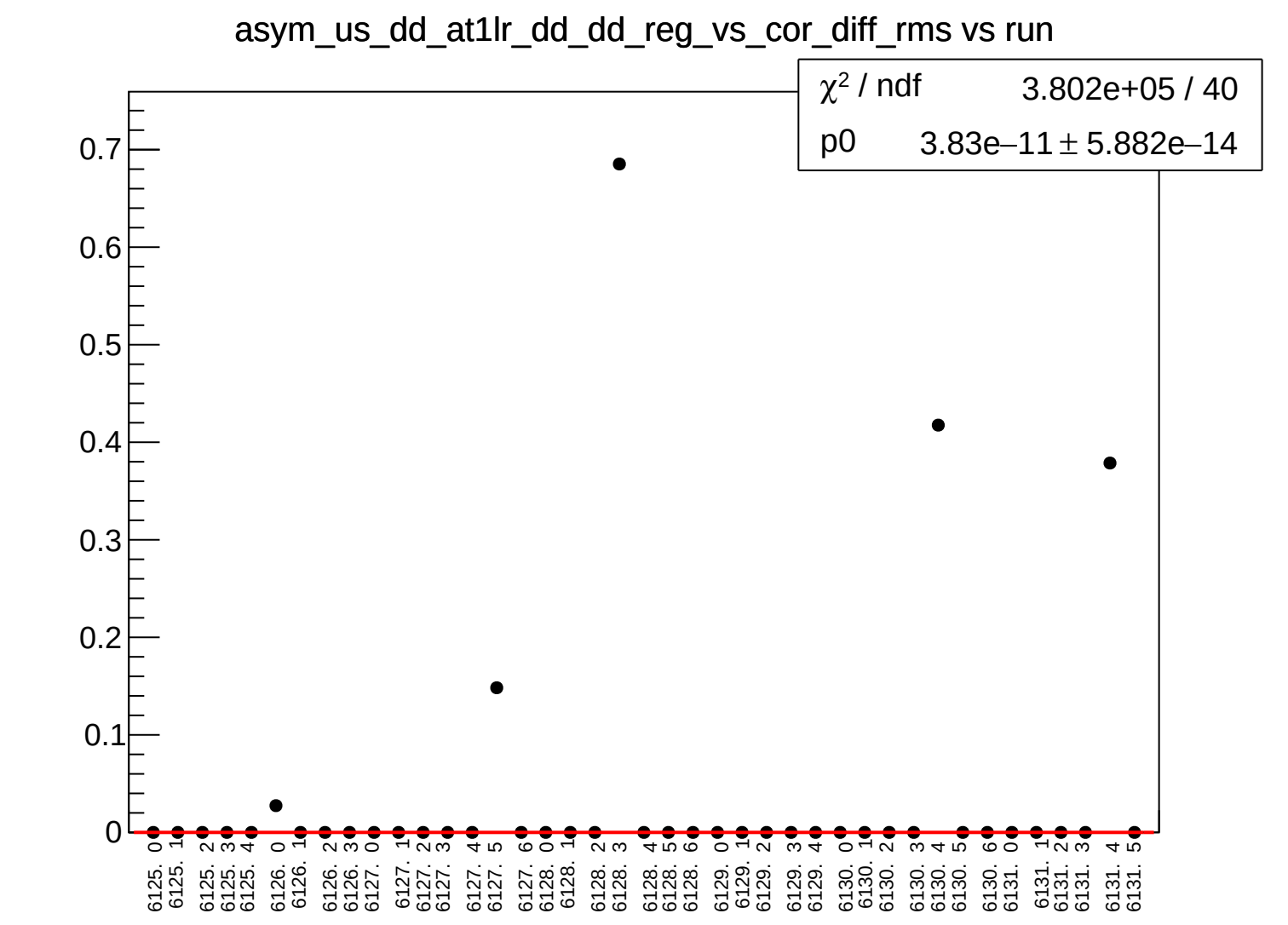

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 34.57 / 40
p0 −2427 ± 3395
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 400.5
Std Dev 0
2
1
0
−1
−2

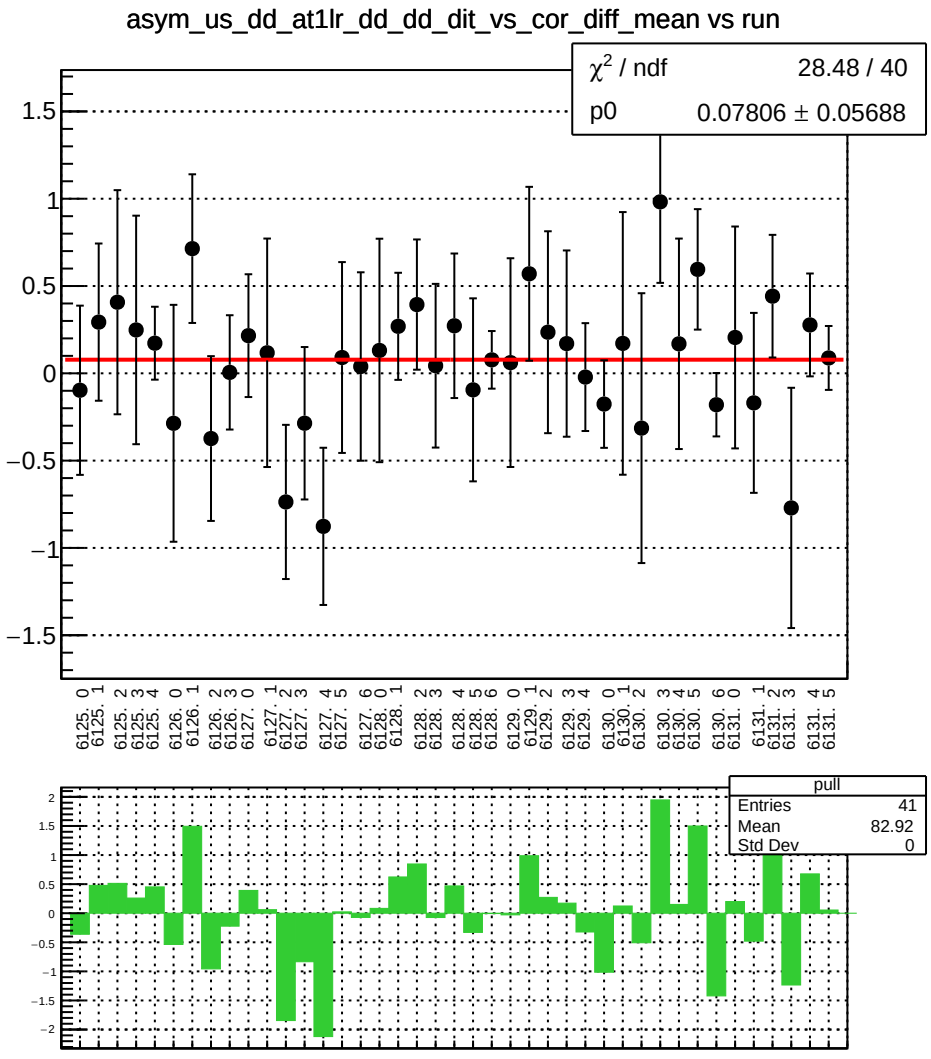

pull1D
Entries 41
Mean −0.006545
Std Dev 0.9183
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

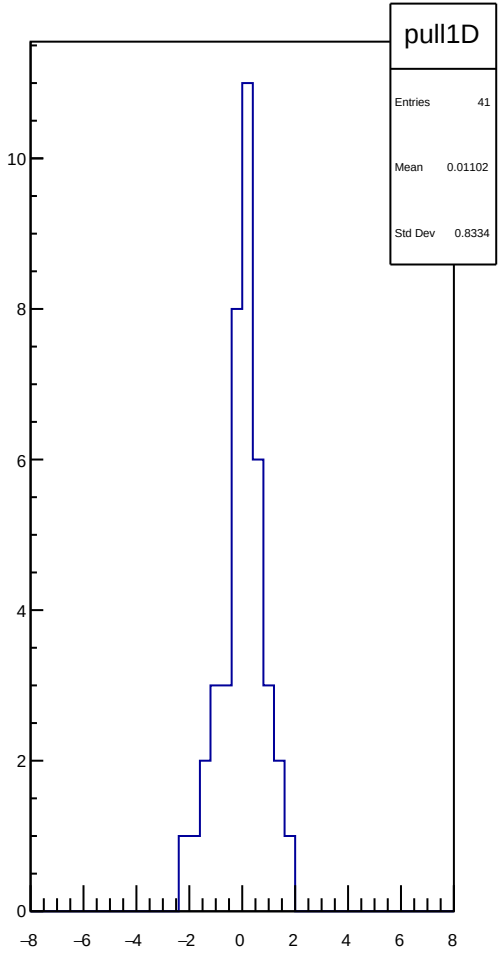

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 255.3 / 40
p0 2152 ± 2.4
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080
2060
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

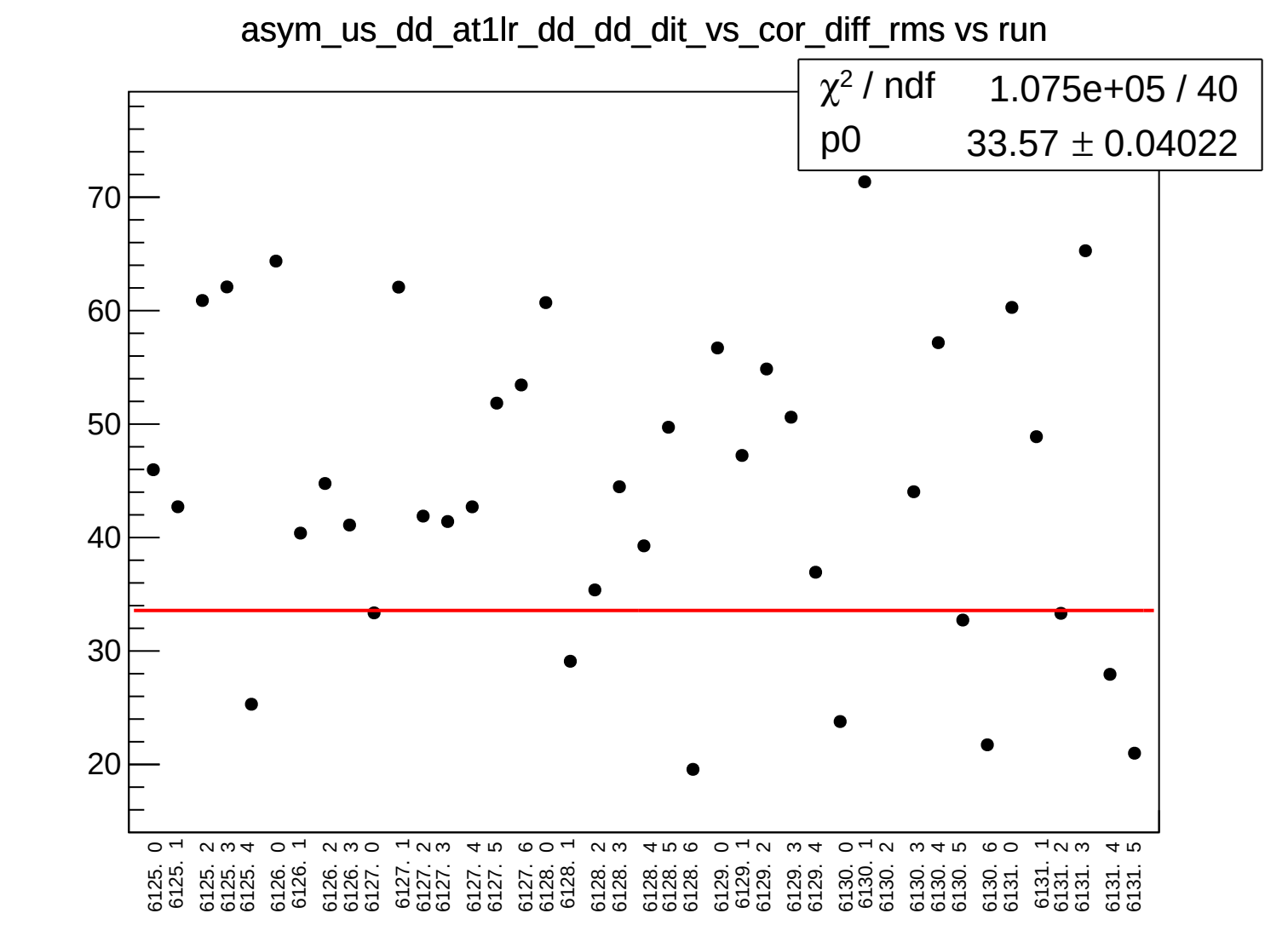

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 34.76 / 40
p0 1.177e−14 ± 8.318e−14
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6126. 4
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 8.924
Std Dev 13.51
2
1
0
−1
−2
−3

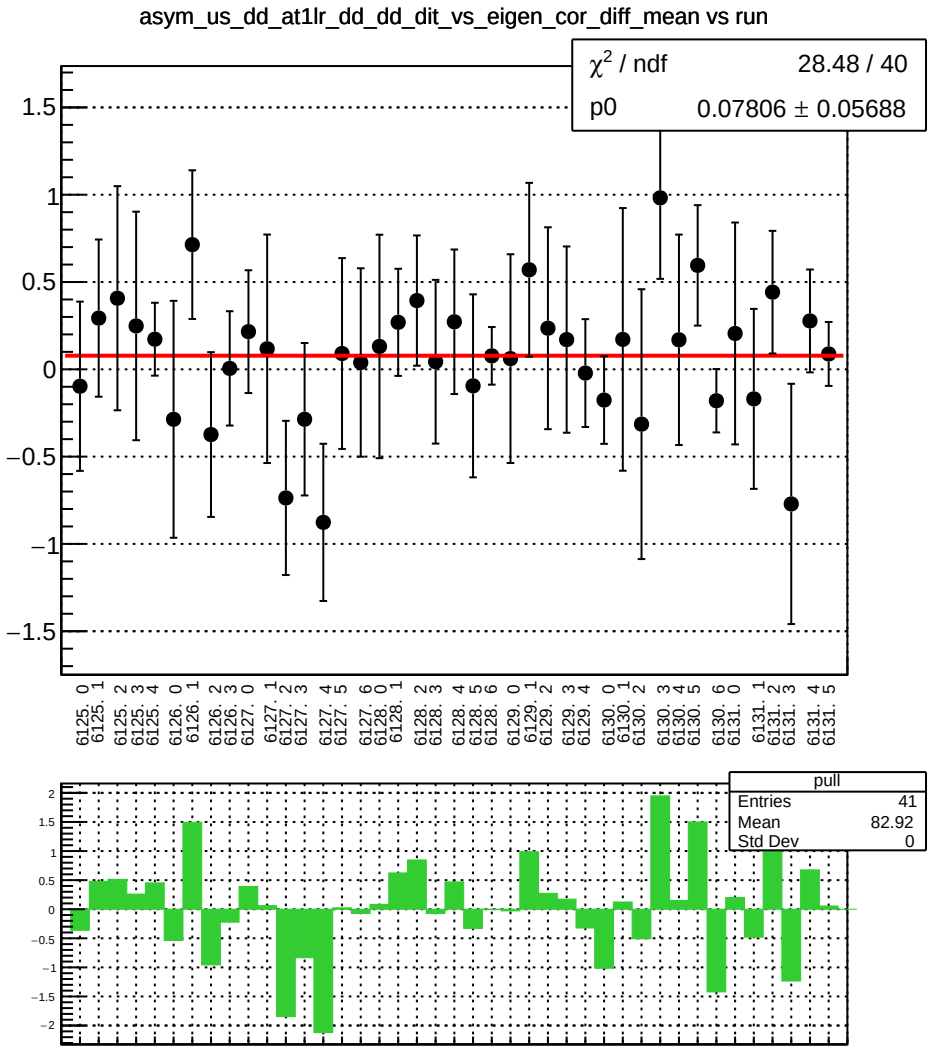

pull1D
Entries 41
Mean −0.1645
Std Dev 0.9059
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

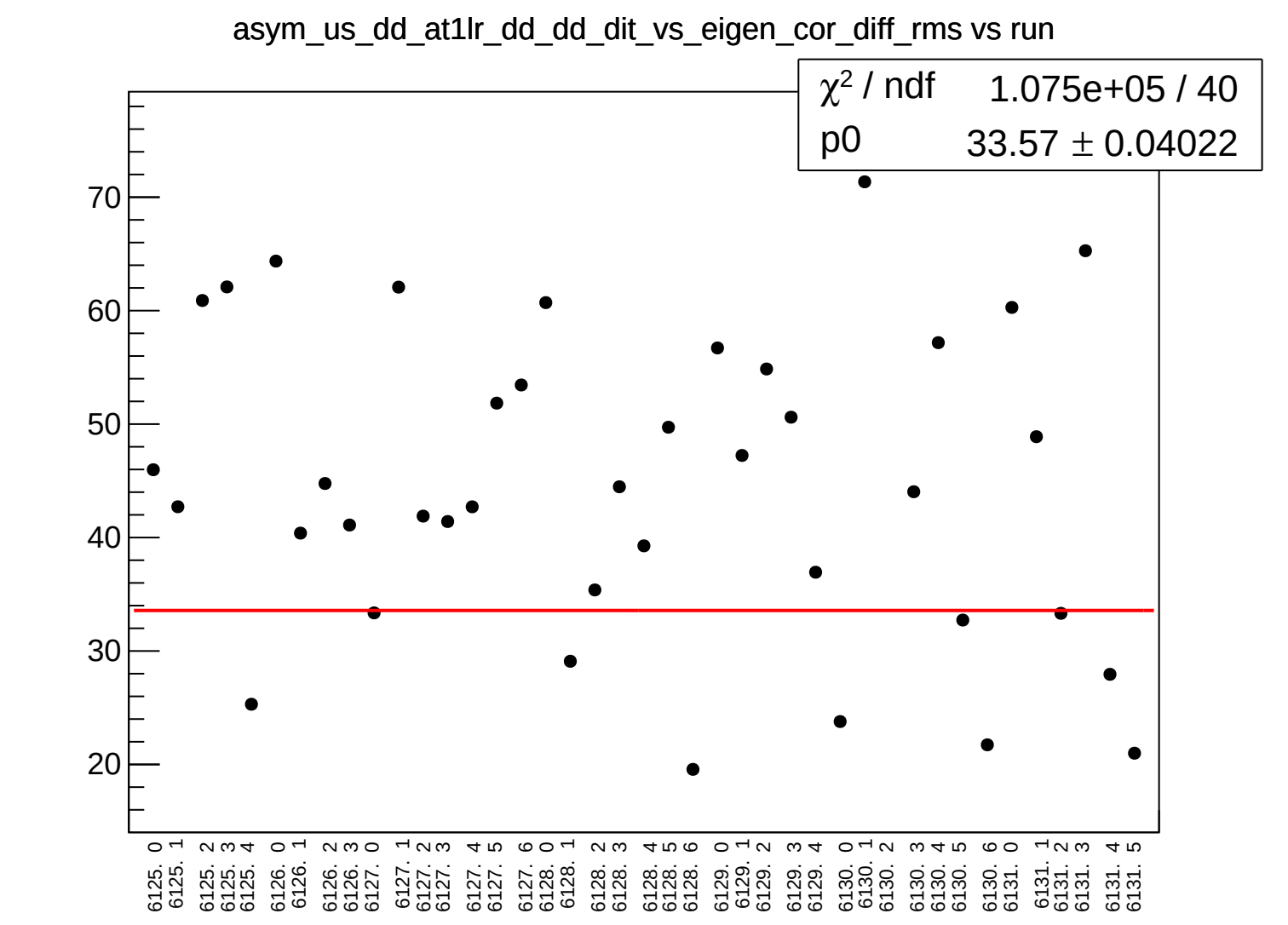

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.802e+05 / 40
p0 3.83e−11 ± 5.882e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

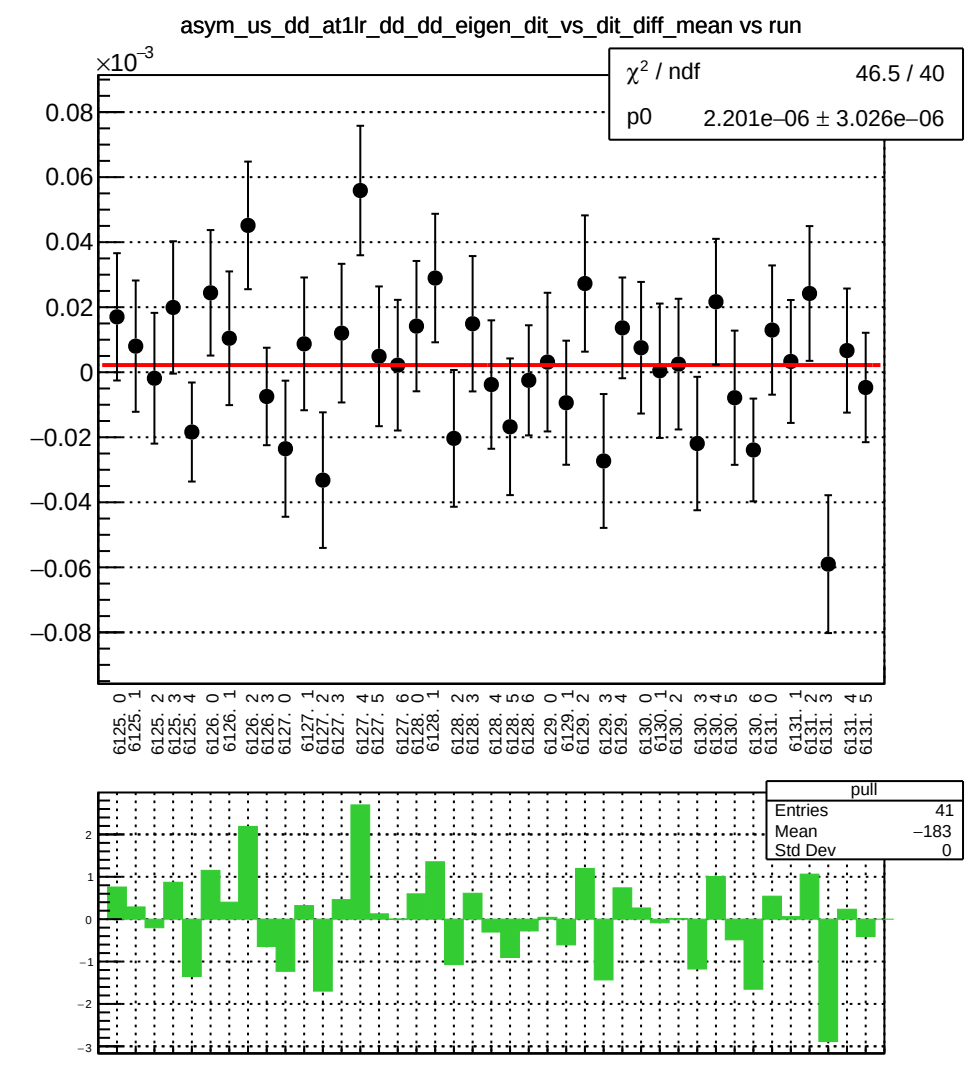

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 28.48 / 40
p0 0.07806 ± 0.05688
pull
Entries 41
Mean 82.92
Std Dev 0

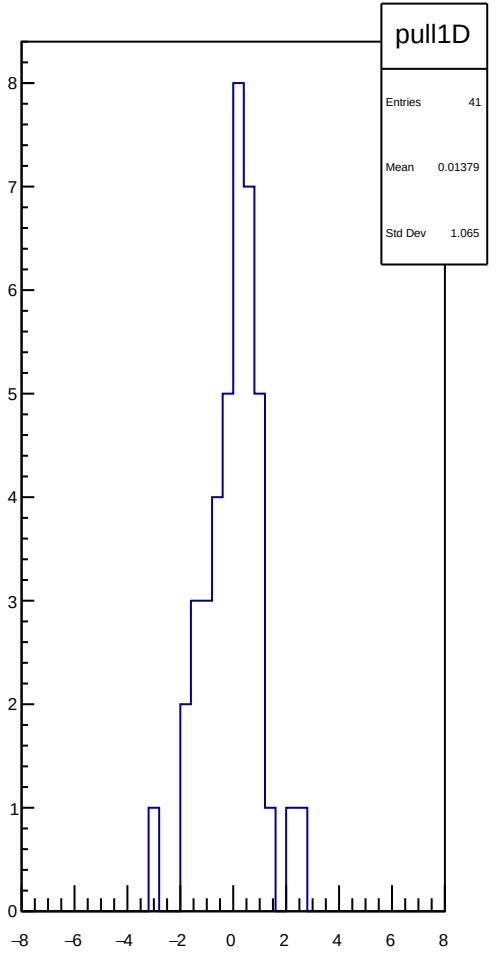

pull1D
Entries 41
Mean 0.01102
Std Dev 0.8334

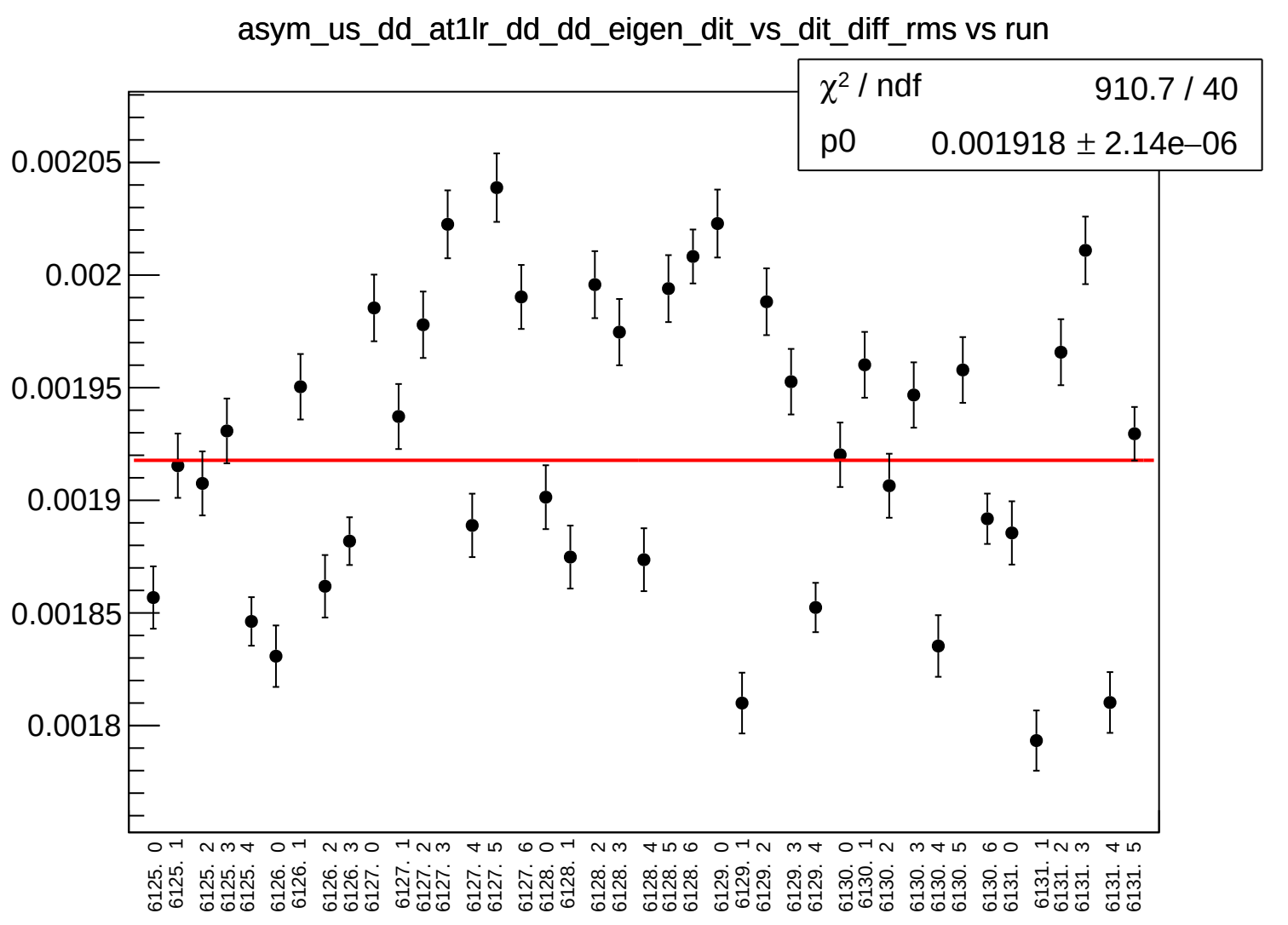

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.075e+05 / 40
p0 33.57 ± 0.04022
70
60
50
40
30
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

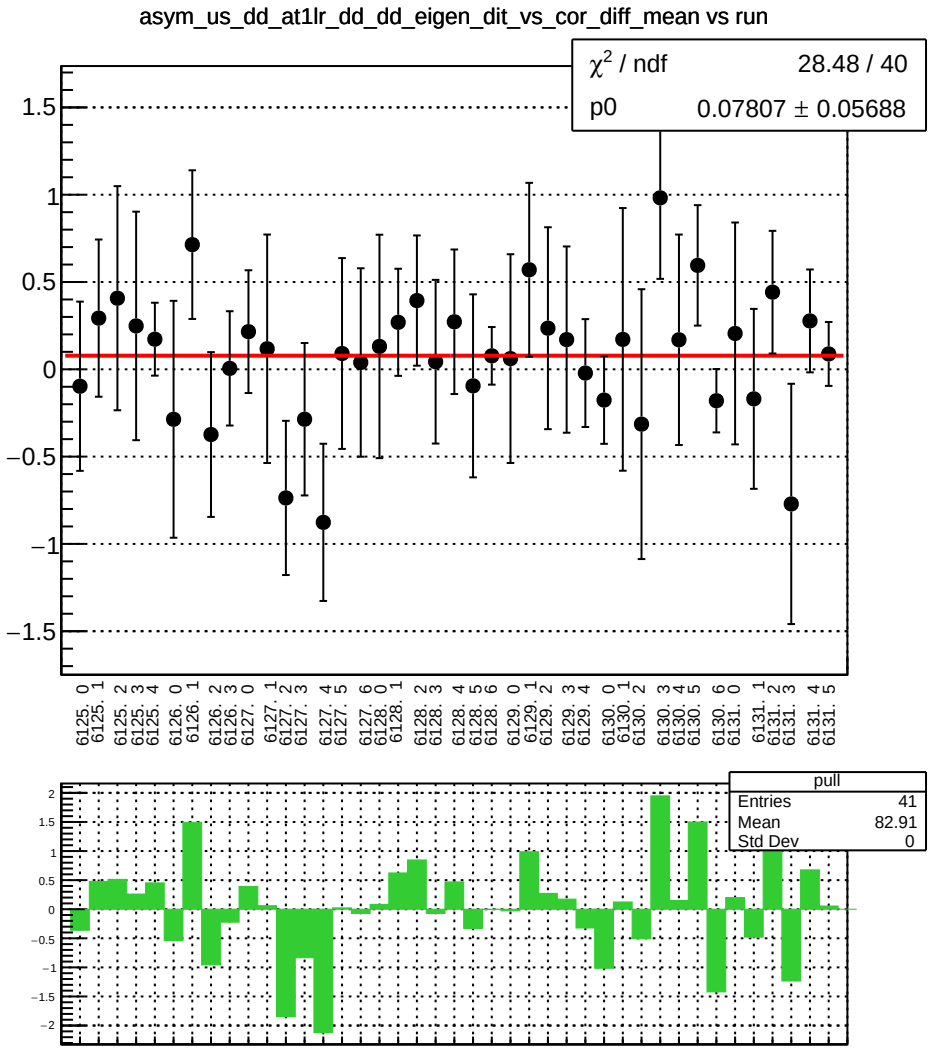

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.48 / 40
p0 0.07806 ± 0.05688
pull
Entries 41
Mean 82.92
Std Dev 0
pull1D
Entries 41
Mean 0.01102
Std Dev 0.8334

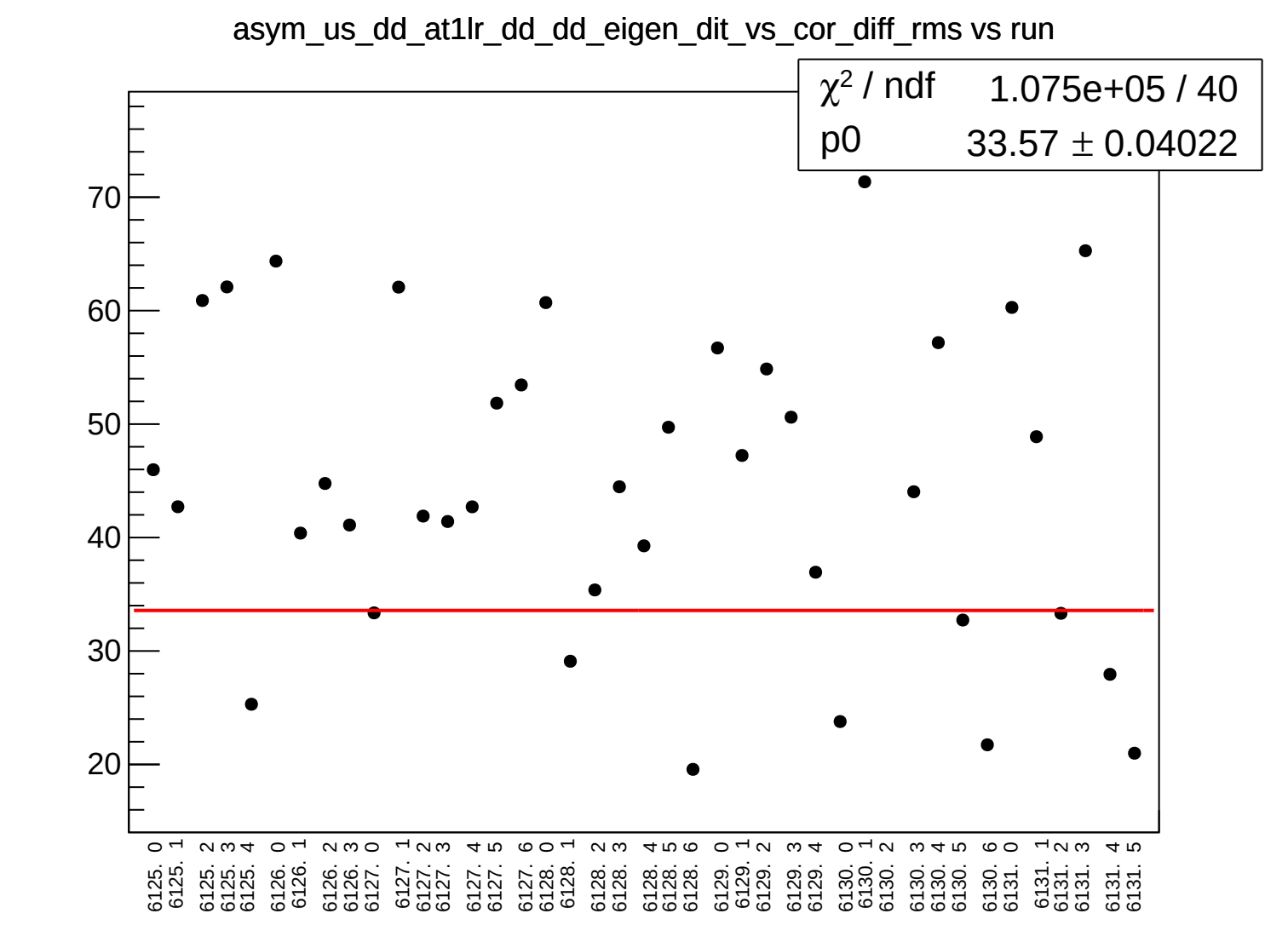

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.075e+05 / 40
p0 33.57 ± 0.04022
70
60
50
40
30
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

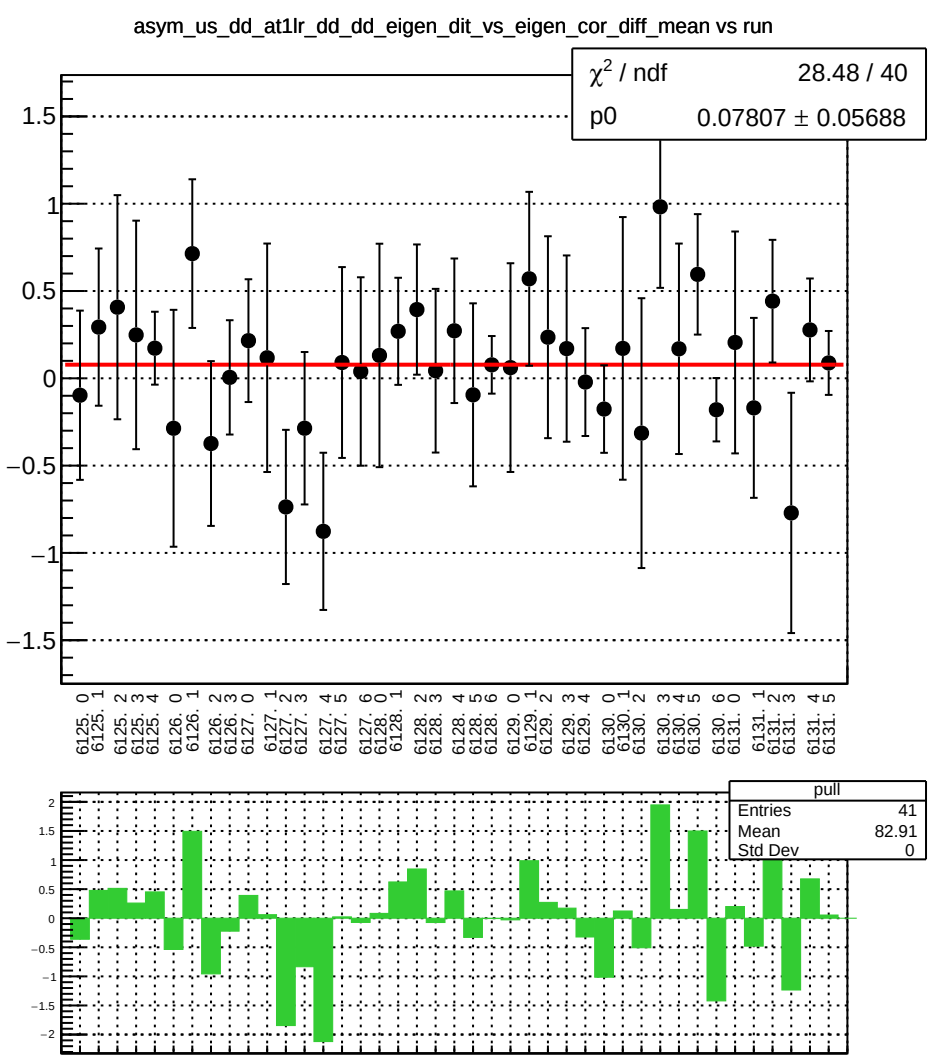

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 46.5 / 40
p0 2.201e−06 ± 3.026e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −183
Std Dev 0
2
1
0
−1
−2
−3

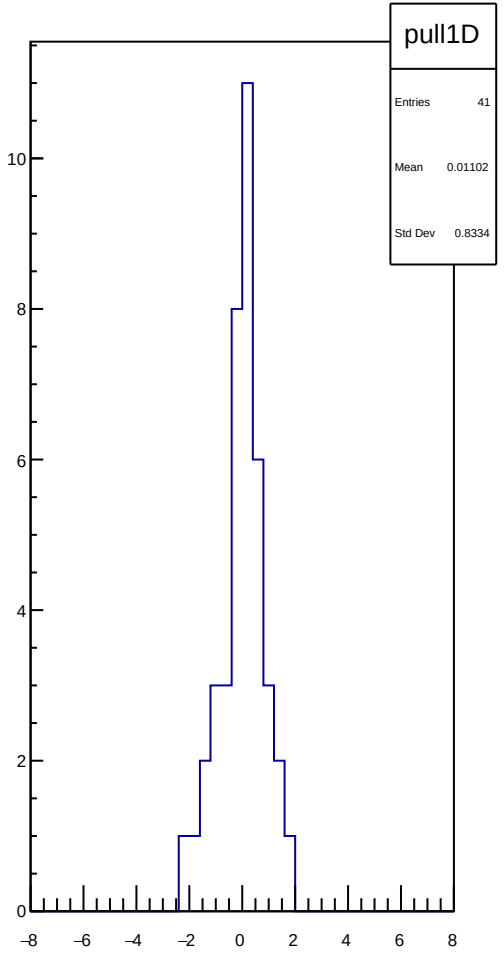

pull1D
Entries 41
Mean 0.01379
Std Dev 1.065
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

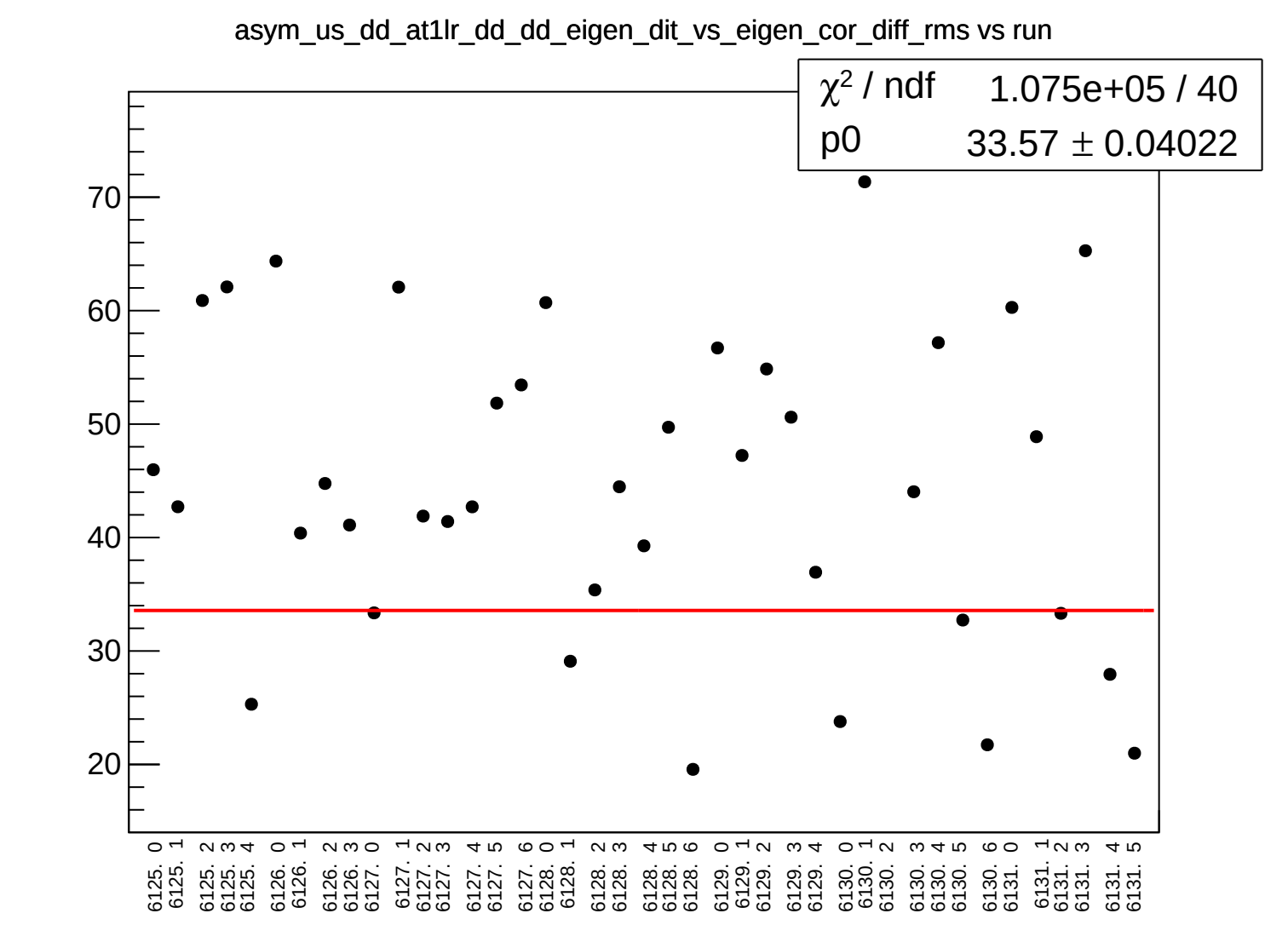

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 910.7 / 40
p0 0.001918 ± 2.14e−06
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 28.48 / 40
p0 0.07807 ± 0.05688
pull
Entries 41
Mean 82.91
Std Dev 0
pull1D
Entries 41
Mean 0.01102
Std Dev 0.8334


asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.075e+05 / 40
p0 33.57 ± 0.04022
70
60
50
40
30
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.48 / 40
p0 0.07807 ± 0.05688
pull
Entries 41
Mean 82.91
Std Dev 0


pull1D
Entries 41
Mean 0.01102
Std Dev 0.8334


asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.075e+05 / 40
p0 33.57 ± 0.04022
70
60
50
40
30
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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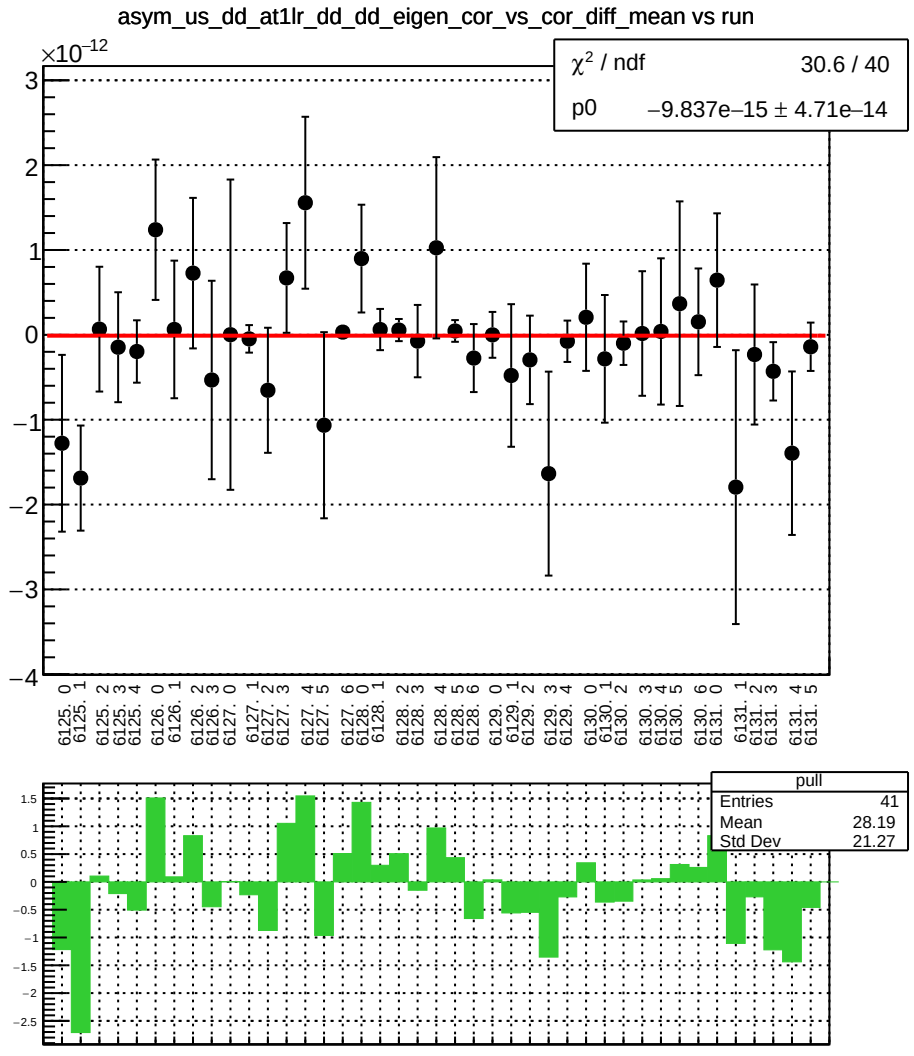
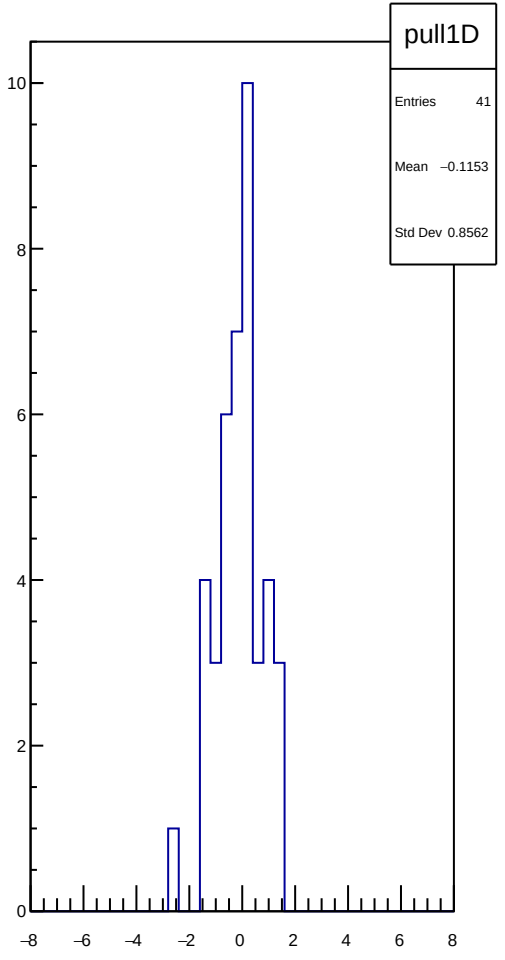
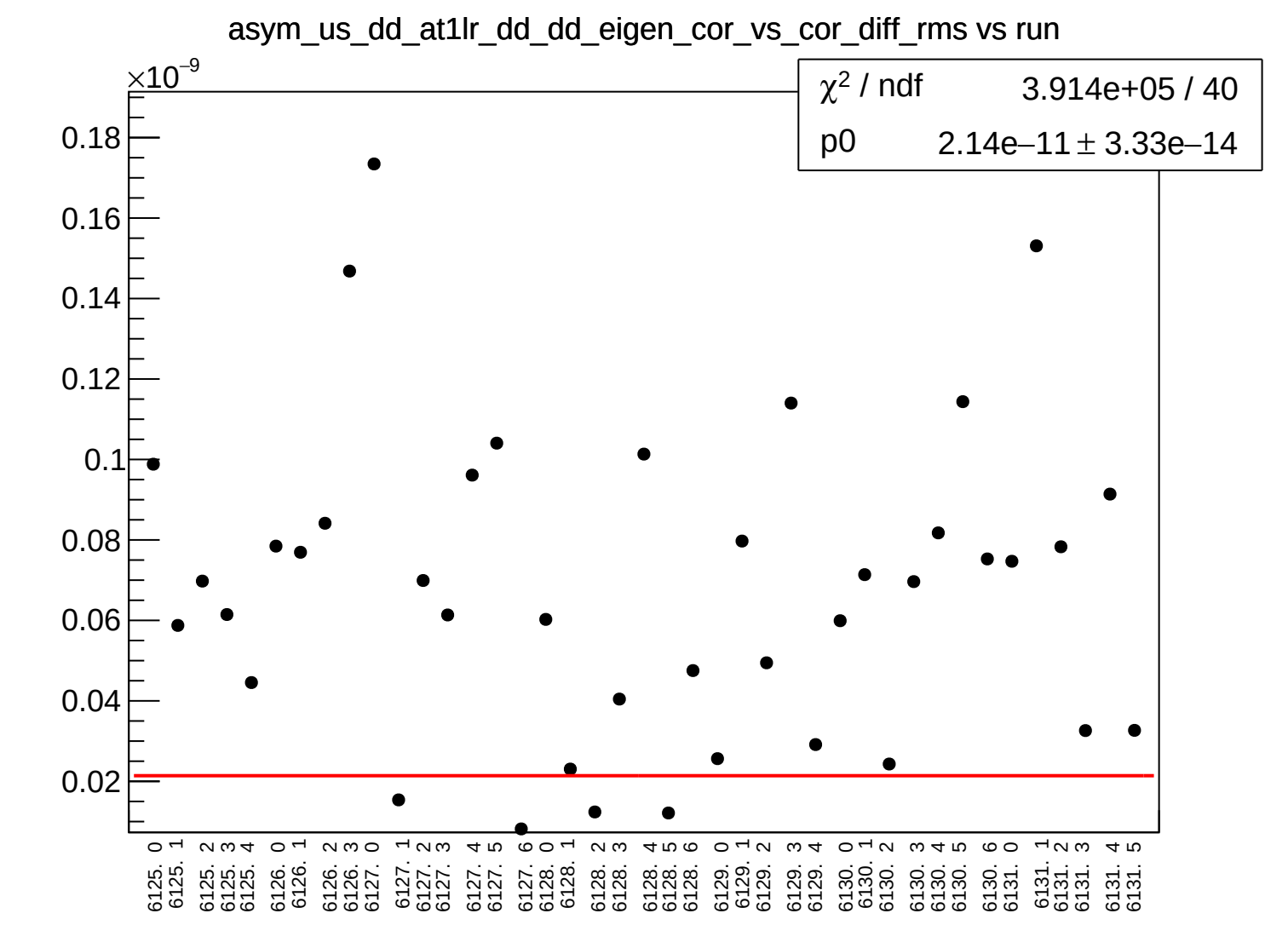
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 30.6 / 40
p0 −9.837e−15 ± 4.71e−14
pull
Entries 41
Mean 28.19
Std Dev 21.27


pull1D
Entries 41
Mean −0.1153
Std Dev 0.8562


asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.914e+05 / 40
p0 2.14e−11 ± 3.33e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6130. 5
6130. 6
6131. 0
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6131. 2
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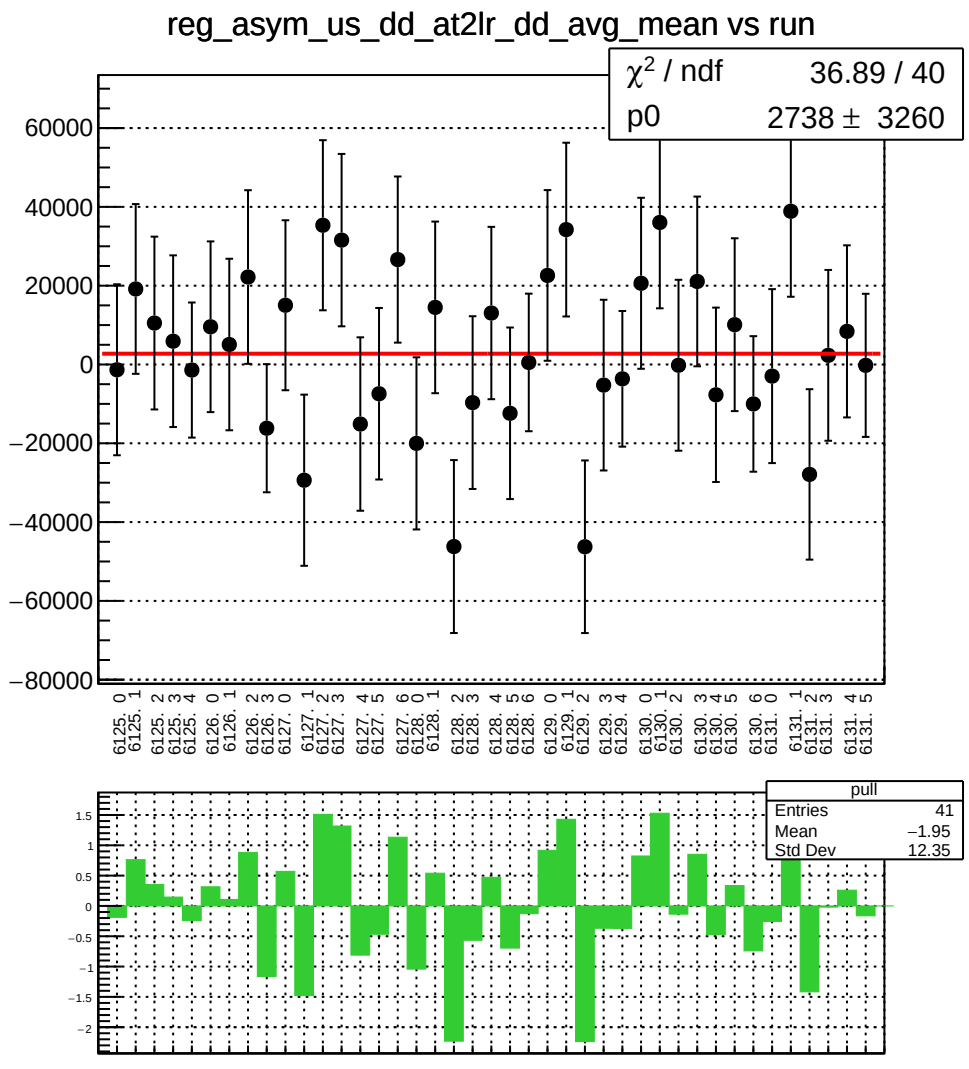
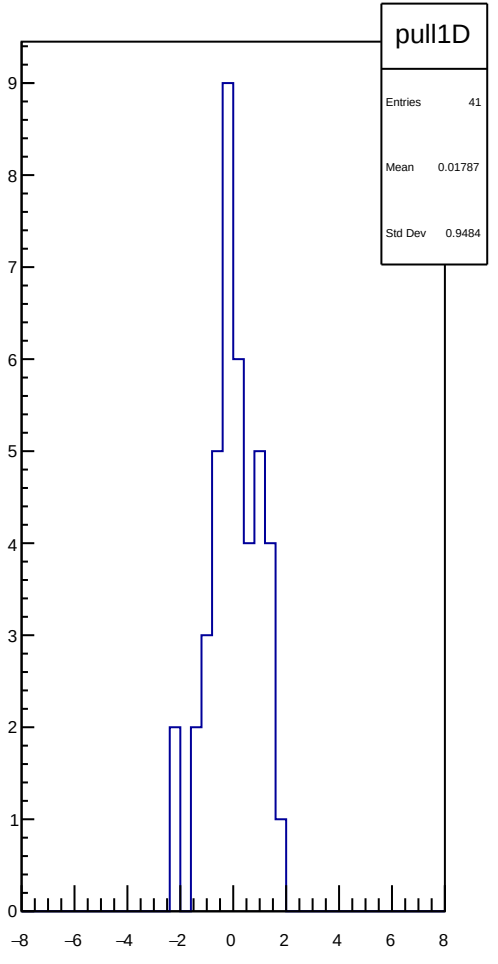
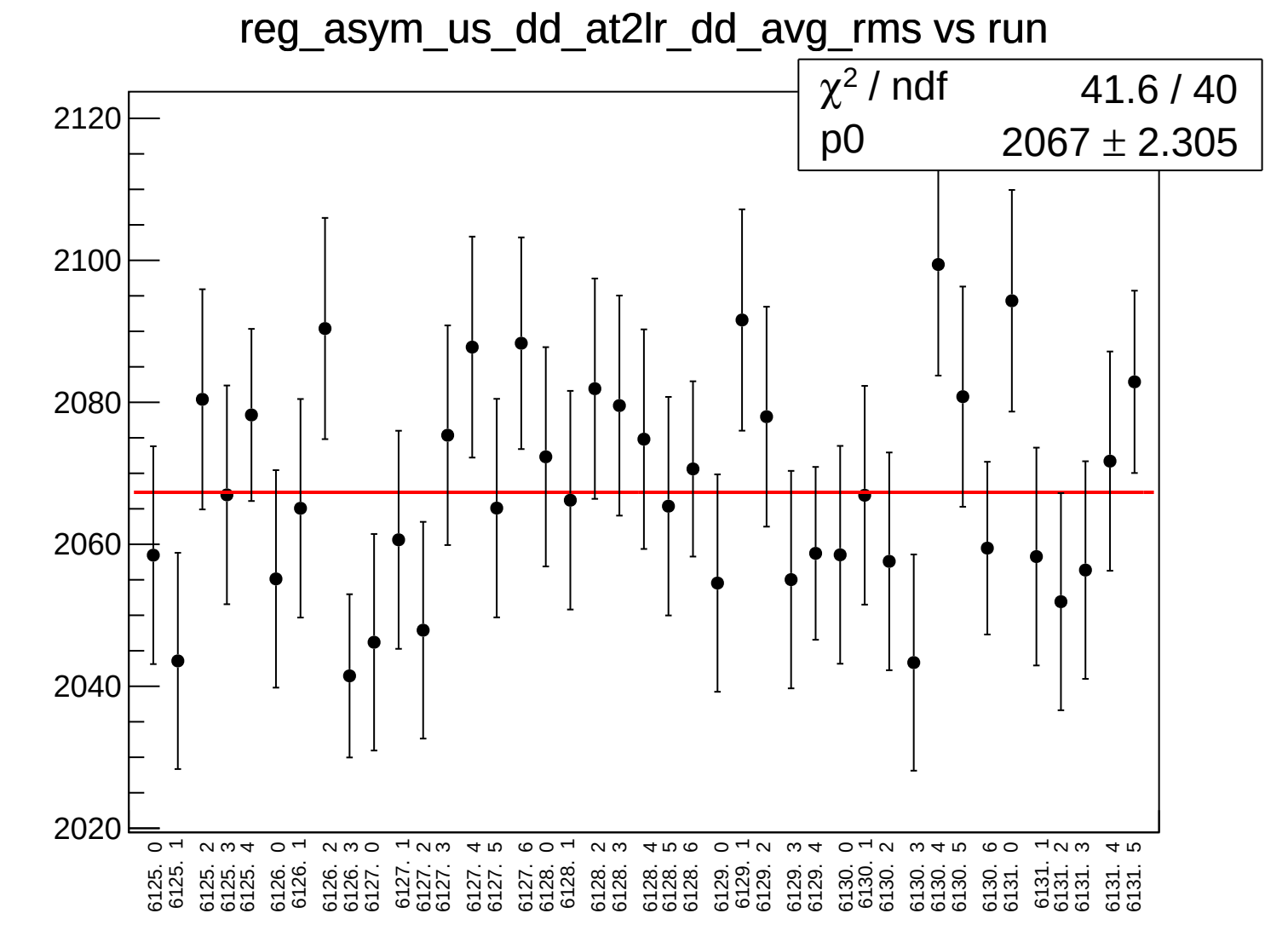
6131. 4
6131. 5


reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 36.89 / 40
p0 2738 ± 3260
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1.95
Std Dev 12.35
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.01787
Std Dev 0.9484
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_rms vs run
χ² / ndf 41.6 / 40
p0 2067 ± 2.305
2120
2100
2080
2060
2040
2020
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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6130. 5
6130. 6
6131. 0
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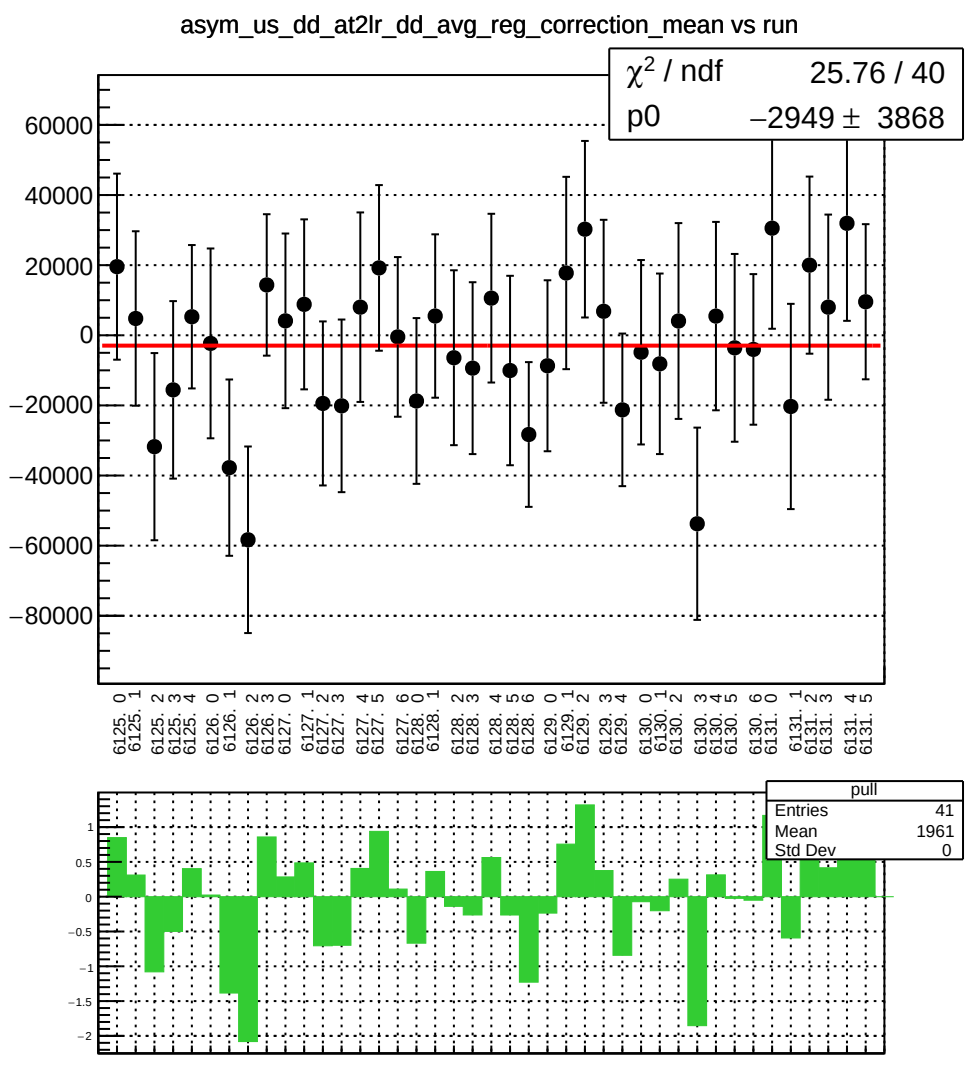
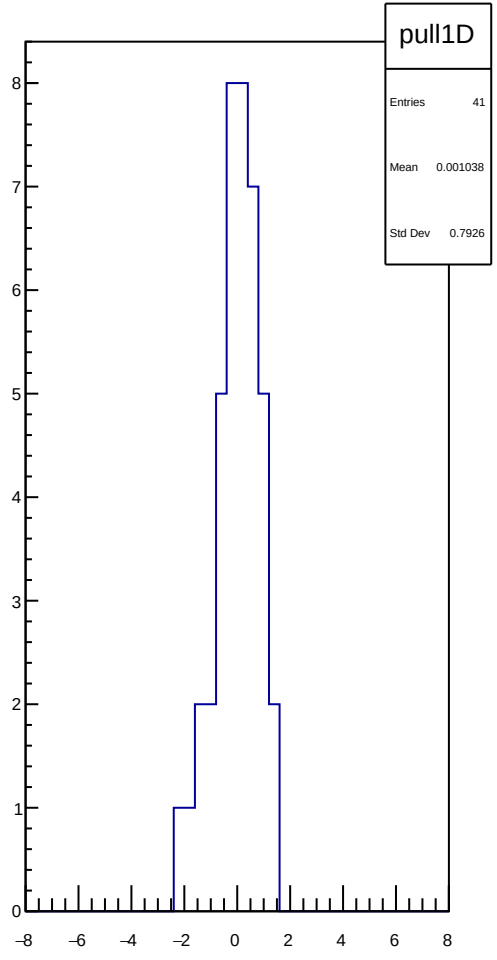
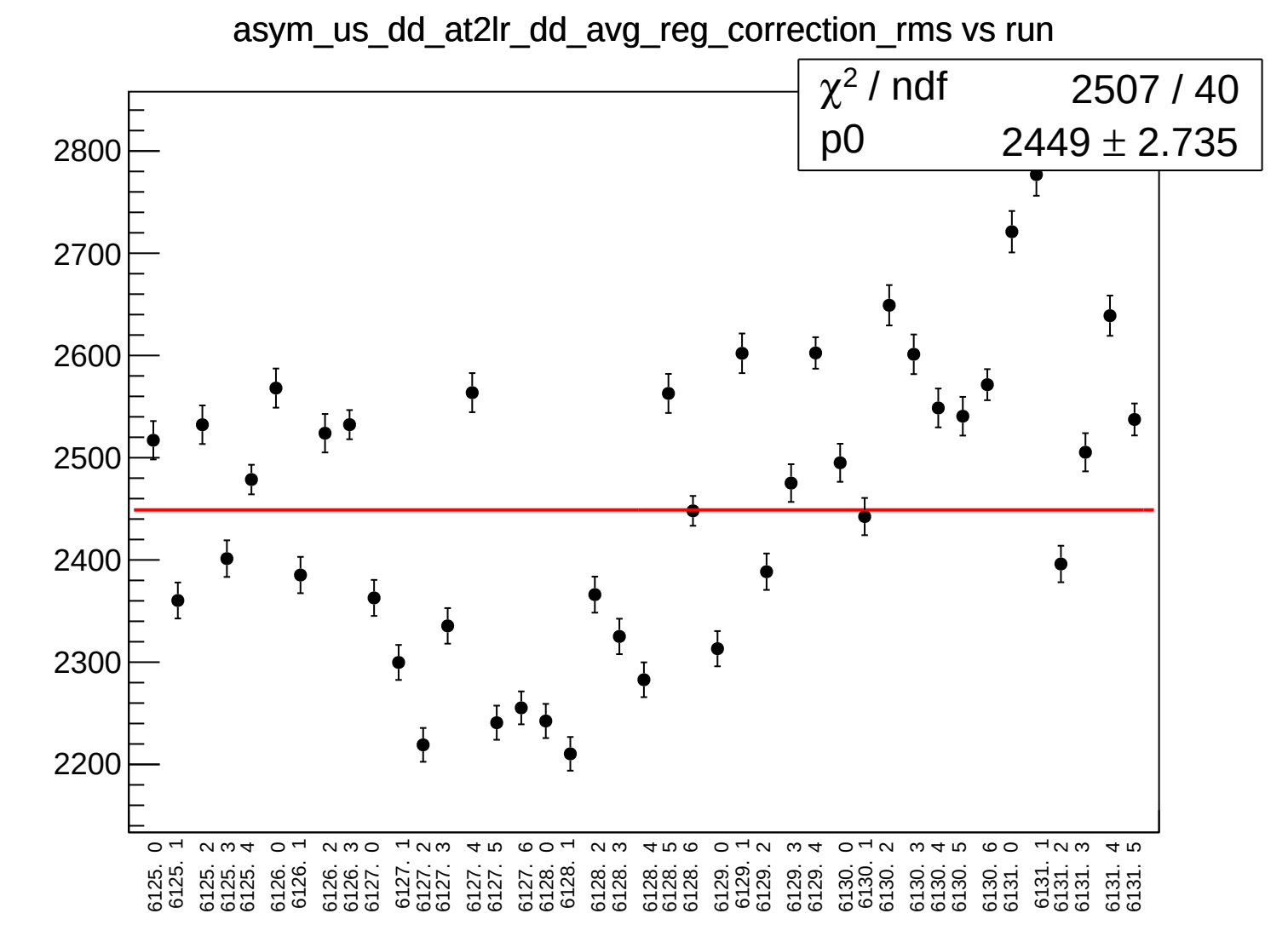
6131. 2
6131. 3
6131. 4
6131. 5


asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 25.76 / 40
p0 −2949 ± 3868
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1961
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.001038
Std Dev 0.7926
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 2507 / 40
p0 2449 ± 2.735
2800
2700
2600
2500
2400
2300
2200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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6130. 5
6130. 6
6131. 0
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6131. 2
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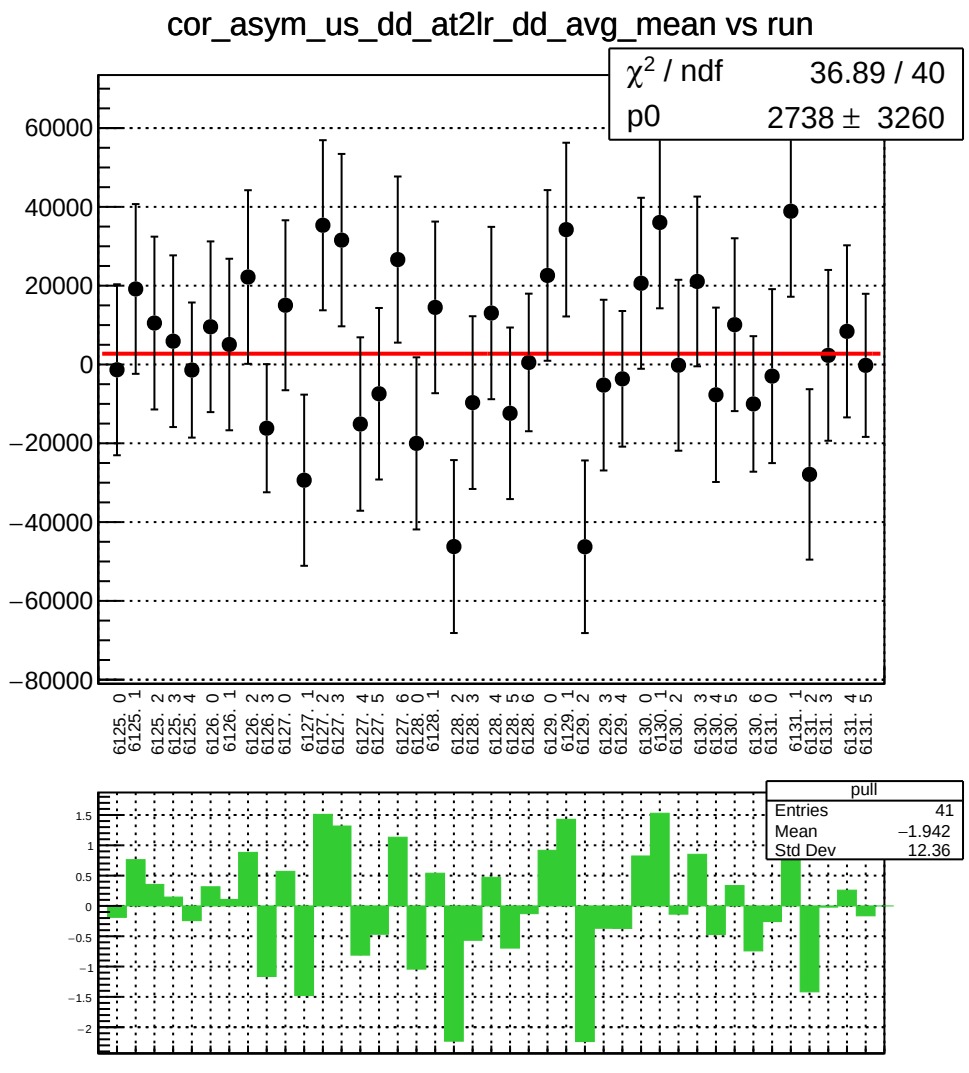
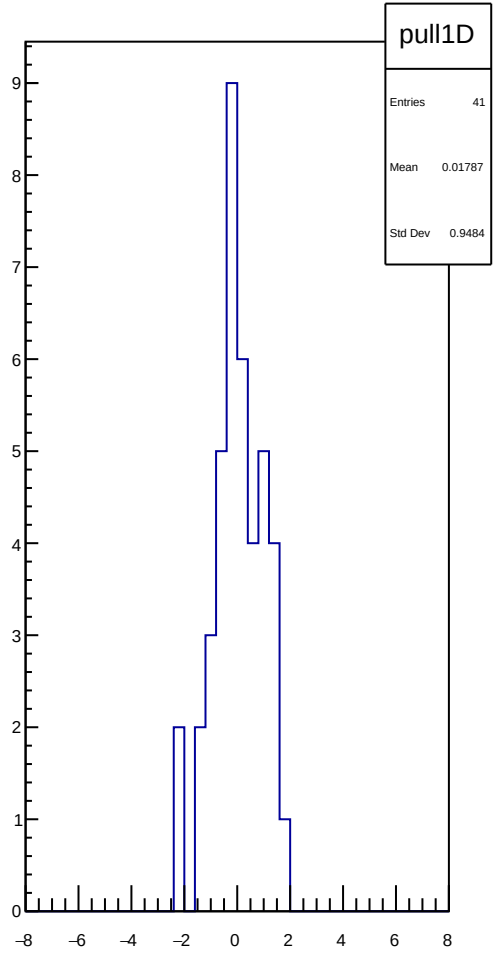
6131. 4
6131. 5


cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 36.89 / 40
p0 2738 ± 3260
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1.942
Std Dev 12.36
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.01787
Std Dev 0.9484
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
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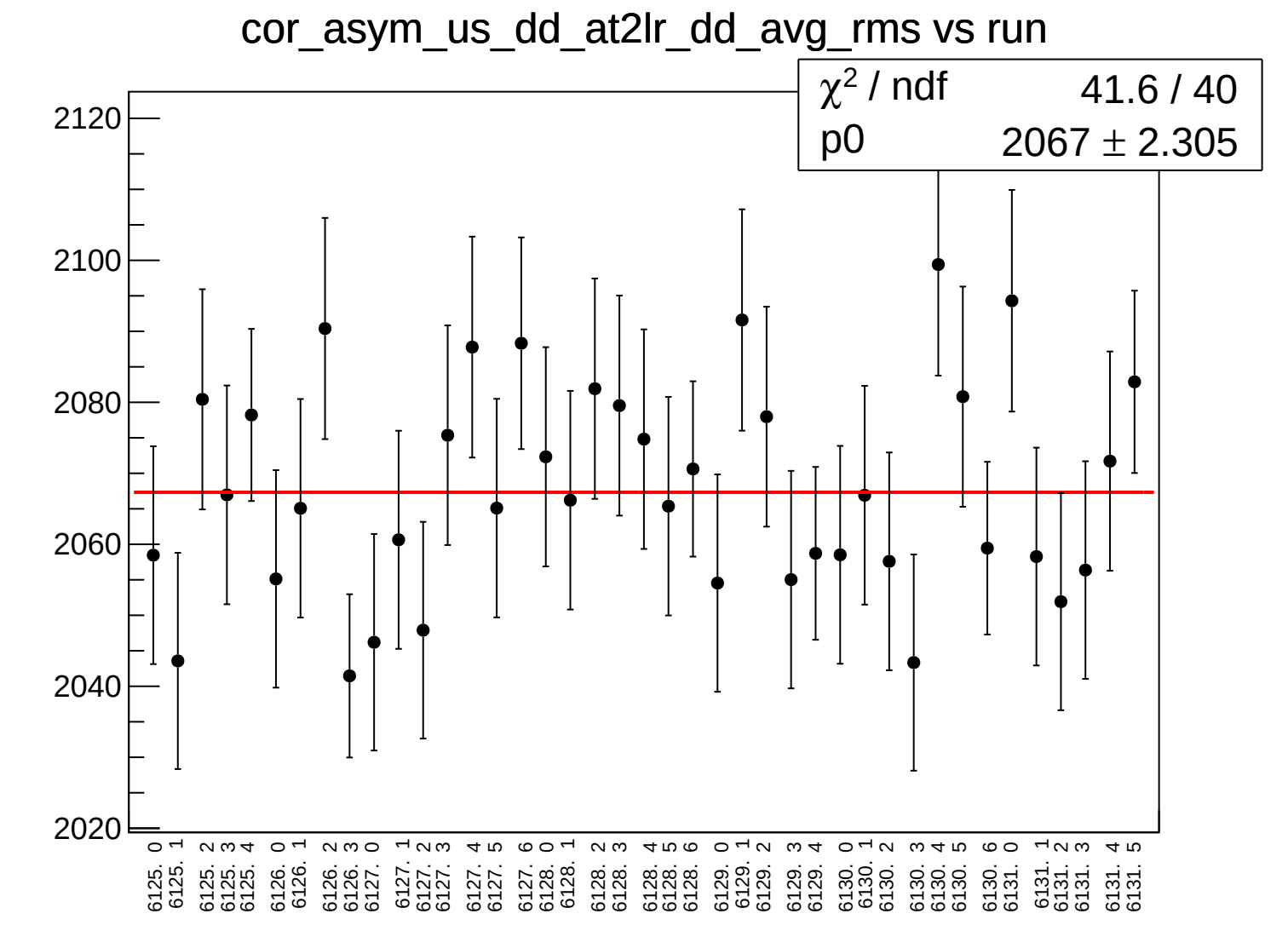
6
8


cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 41.6 / 40
p0 2067 ± 2.305
2120
2100
2080
2060
2040
2020
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
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6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6130. 5
6130. 6
6131. 0
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6131. 2
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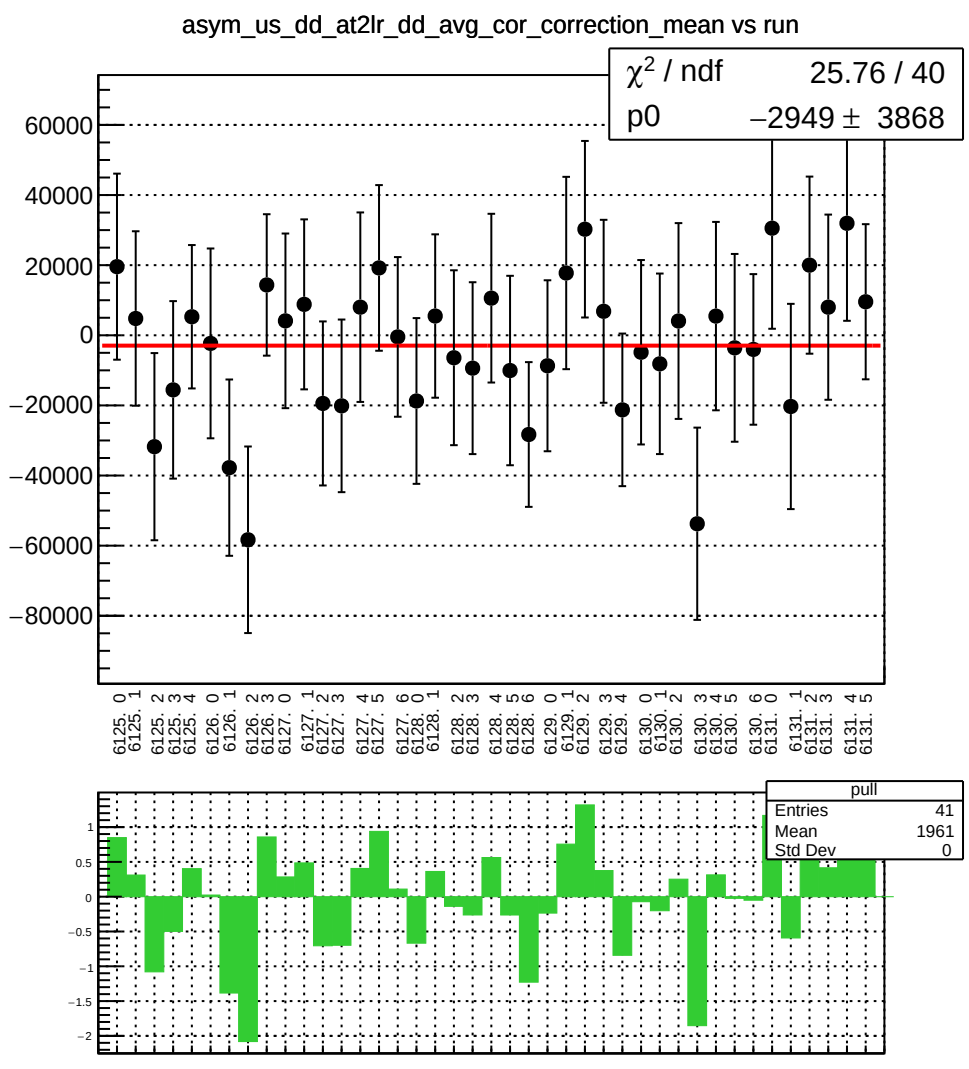
6131. 4
6131. 5


asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 25.76 / 40
p0 −2949 ± 3868
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1961
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.001038
Std Dev 0.7926
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
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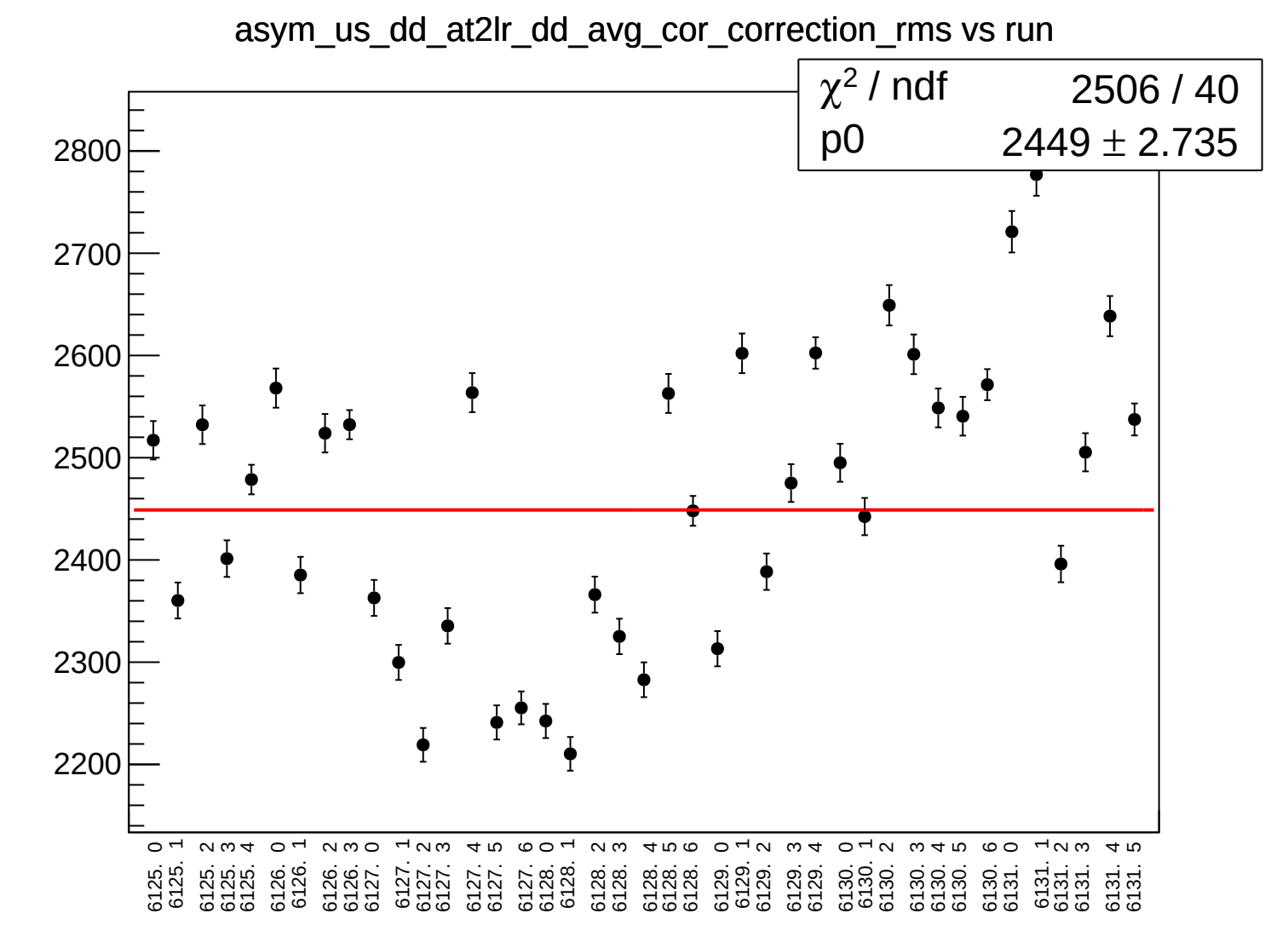
6
8


asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 2506 / 40
p0 2449 ± 2.735
2800
2700
2600
2500
2400
2300
2200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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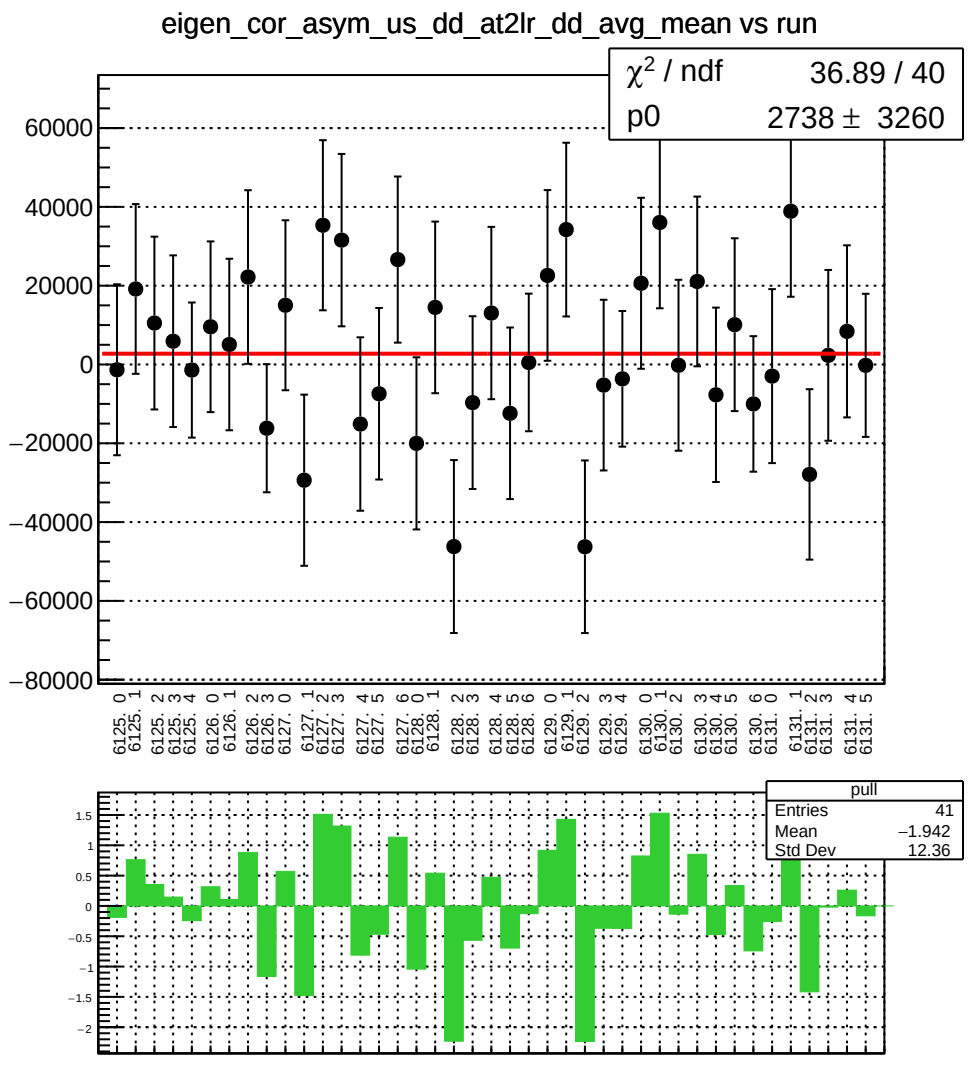
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 36.89 / 40
p0 2738 ± 3260
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1.942
Std Dev 12.36
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.01787
Std Dev 0.9484
9
8
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5
4
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2
1
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−6
−4
−2
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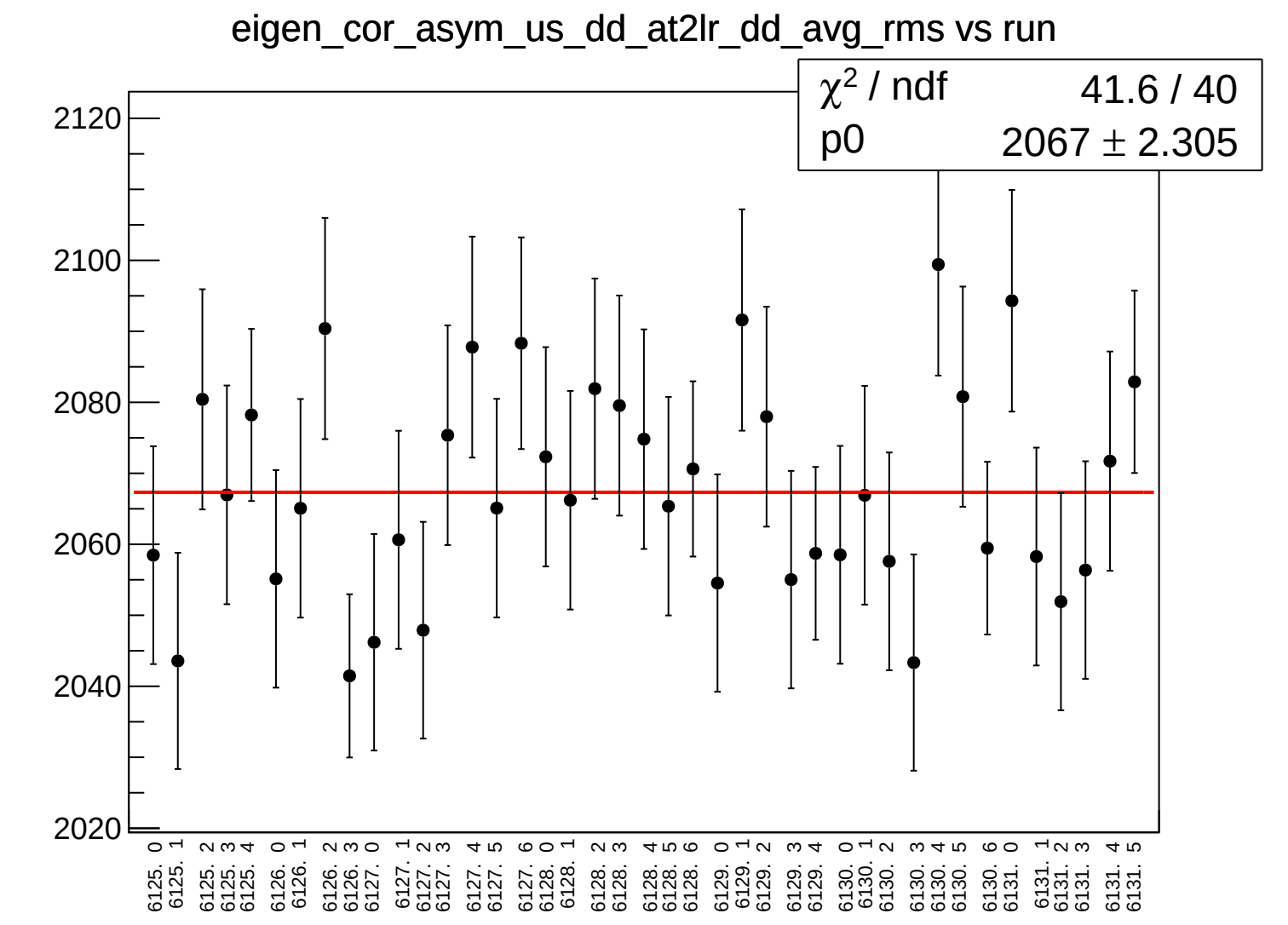
2
4
6
8


eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 41.6 / 40
p0 2067 ± 2.305
2120
2100
2080
2060
2040
2020
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
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6127. 2
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6127. 5
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6128. 0
6128. 1
6128. 2
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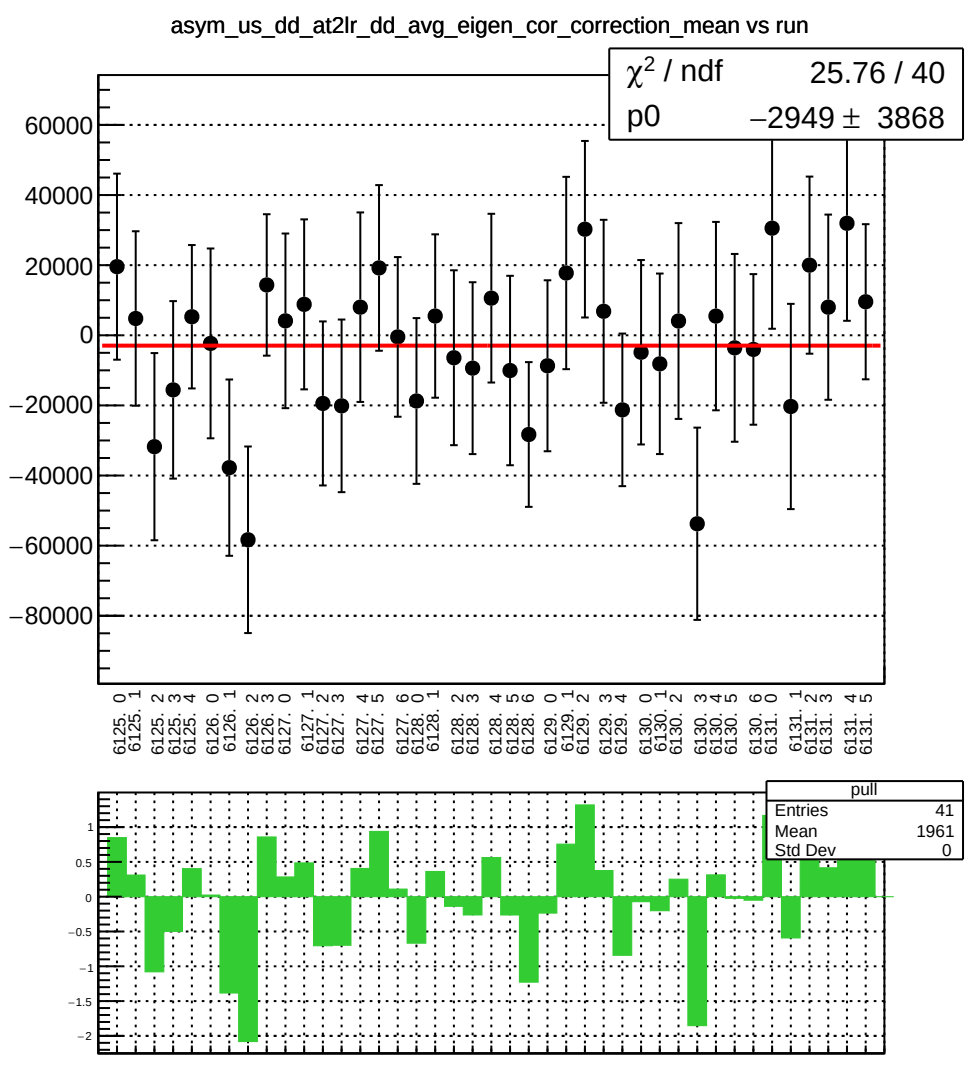
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 25.76 / 40
p0 −2949 ± 3868
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
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6127. 0
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6127. 5
6127. 6
6128. 0
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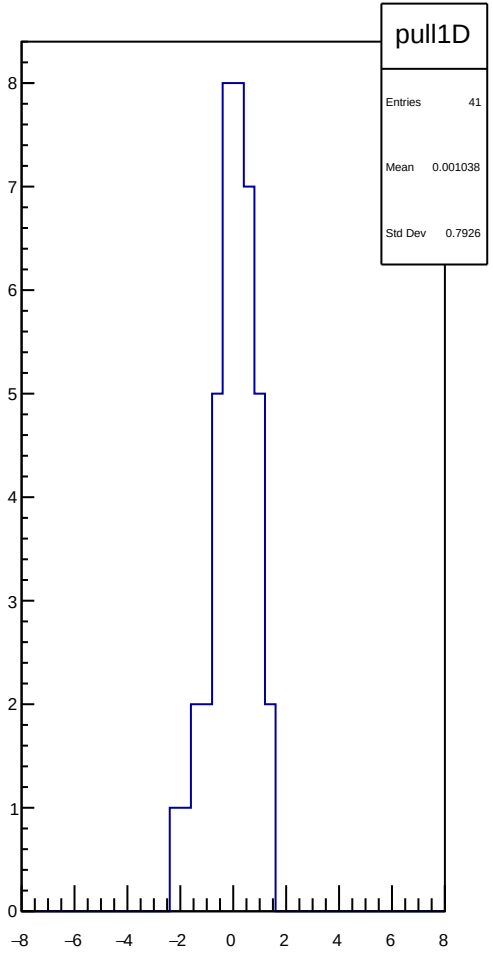
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1961
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.001038
Std Dev 0.7926
8
7
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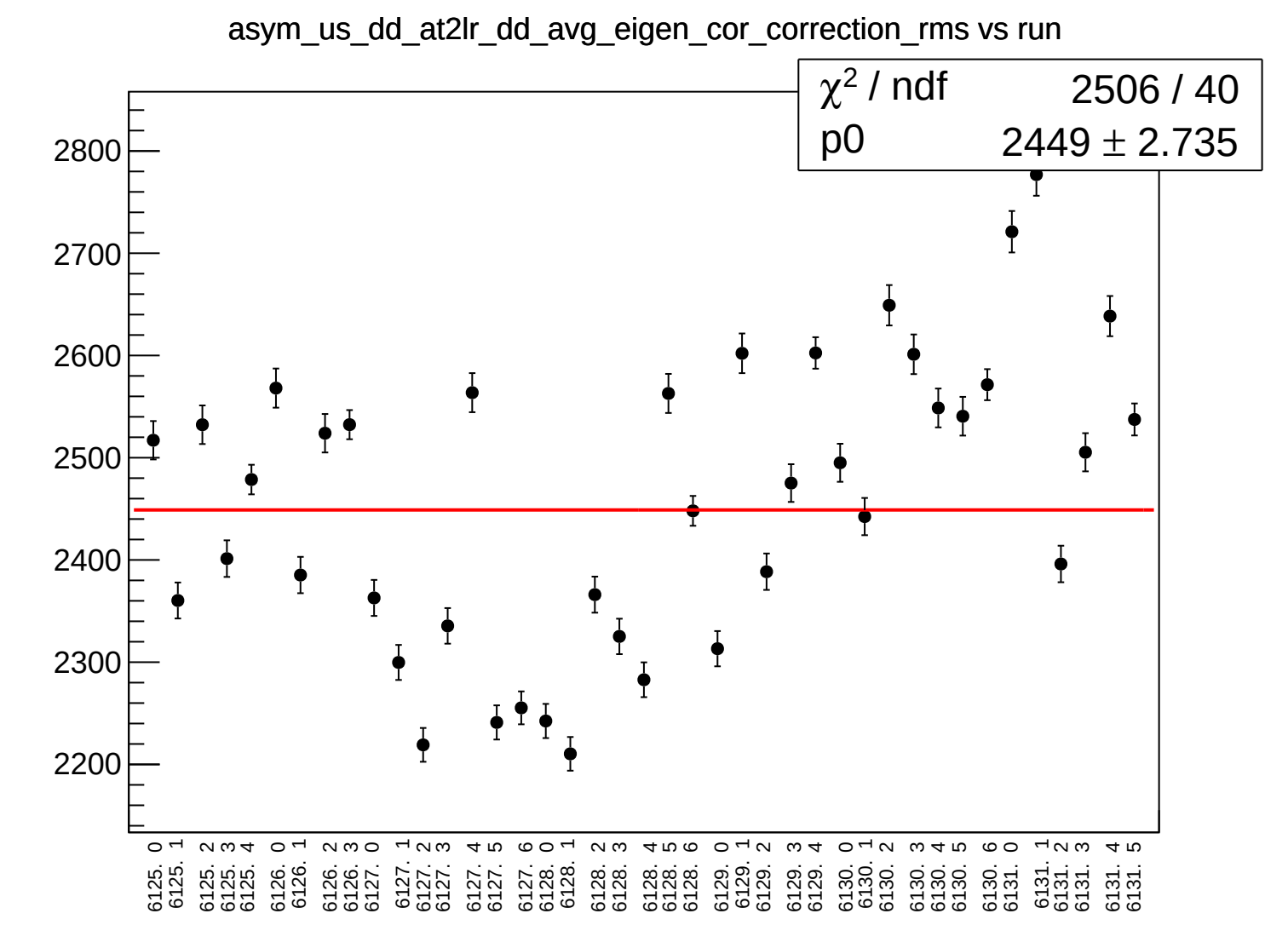
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2506 / 40
p0 2449 ± 2.735
2800
2700
2600
2500
2400
2300
2200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
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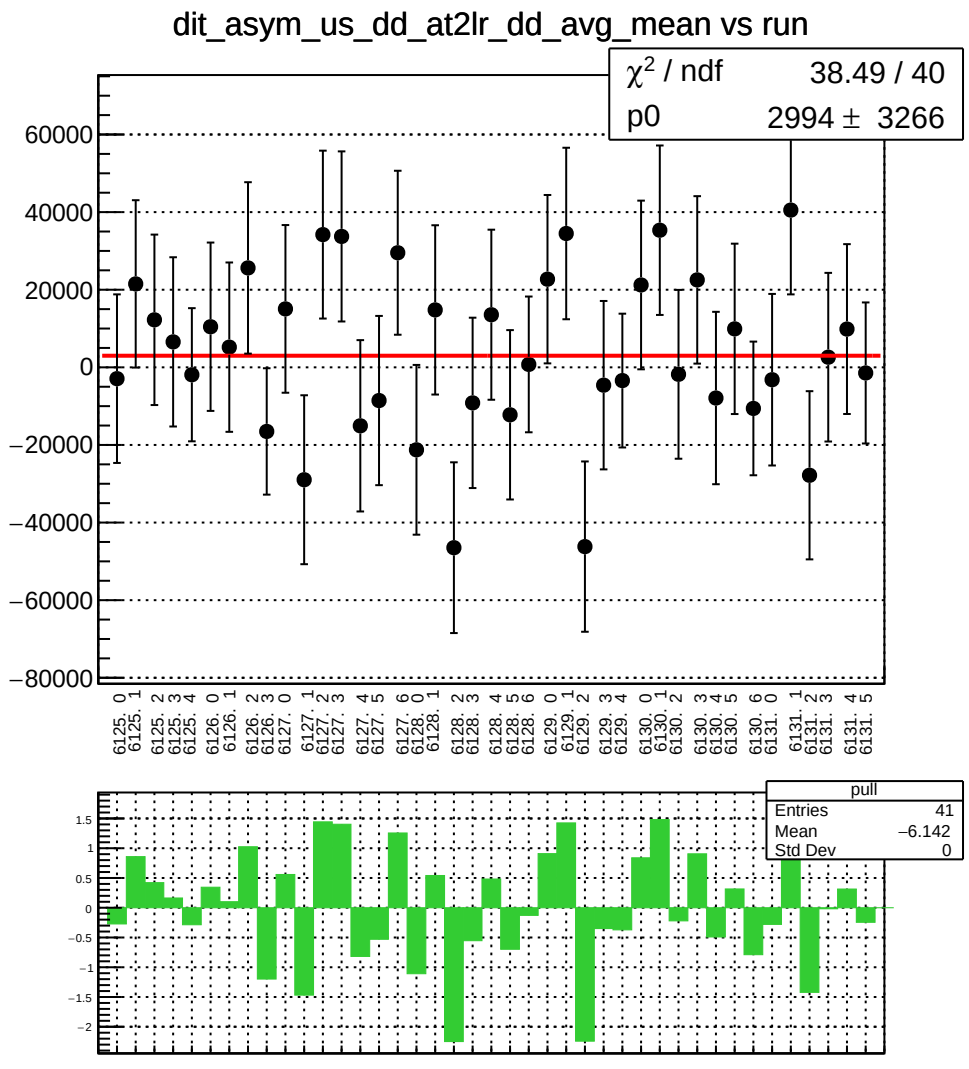
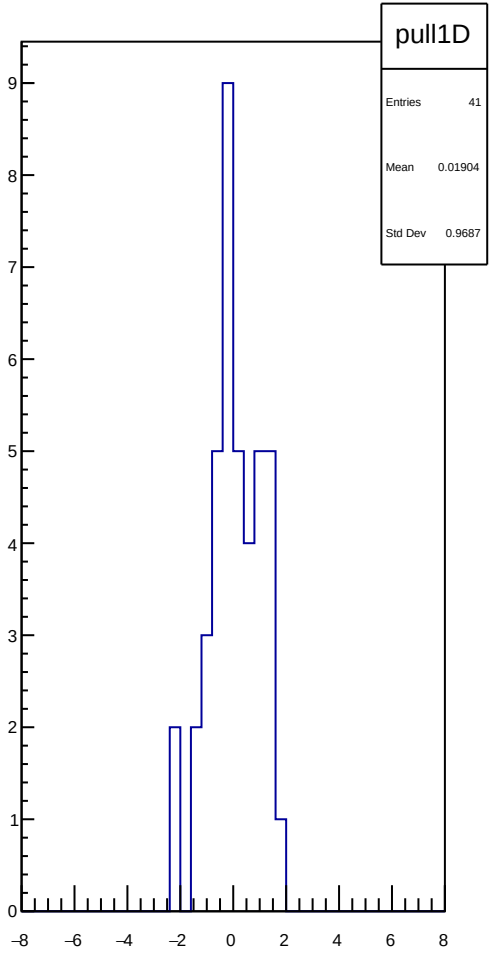
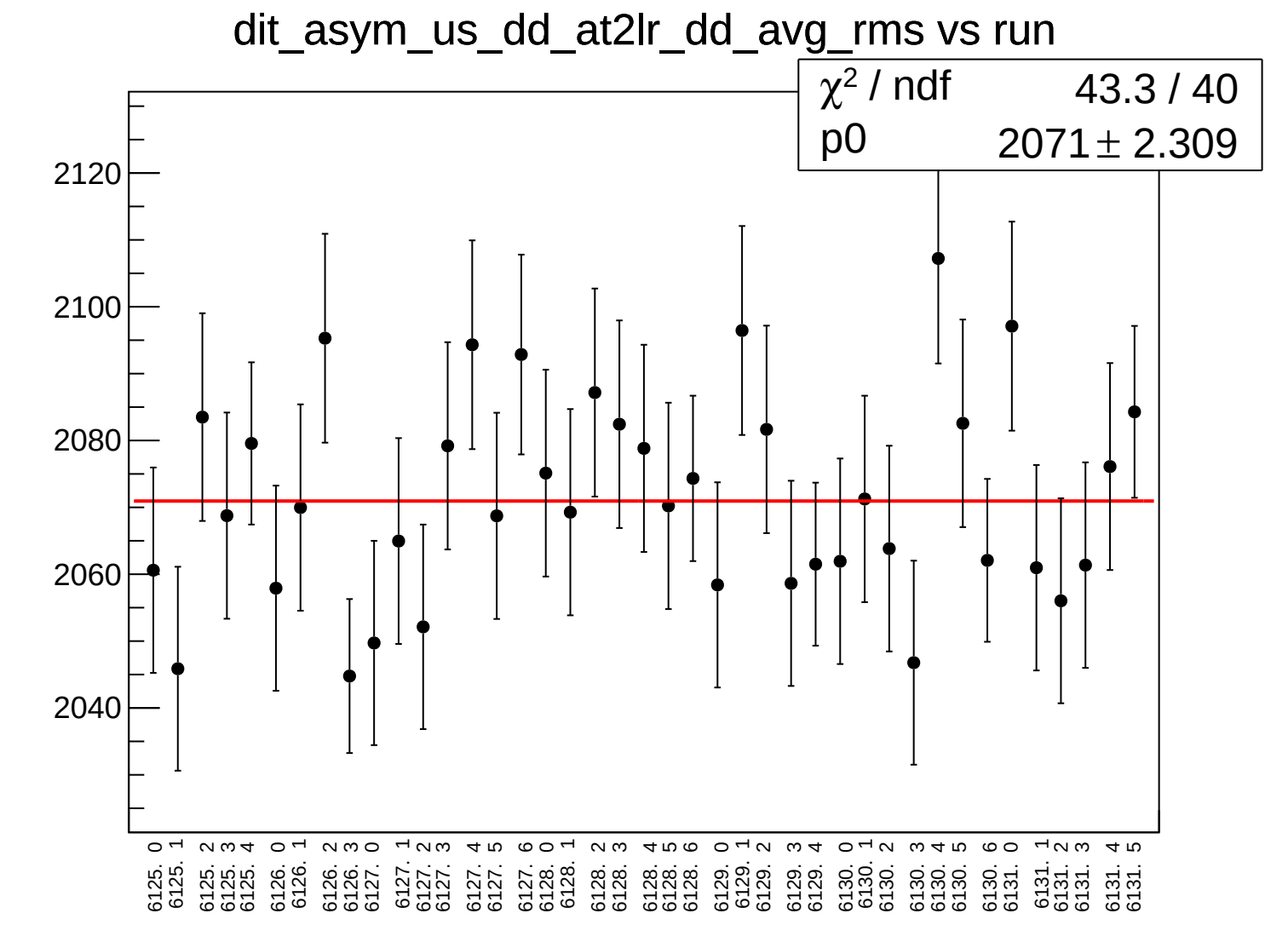
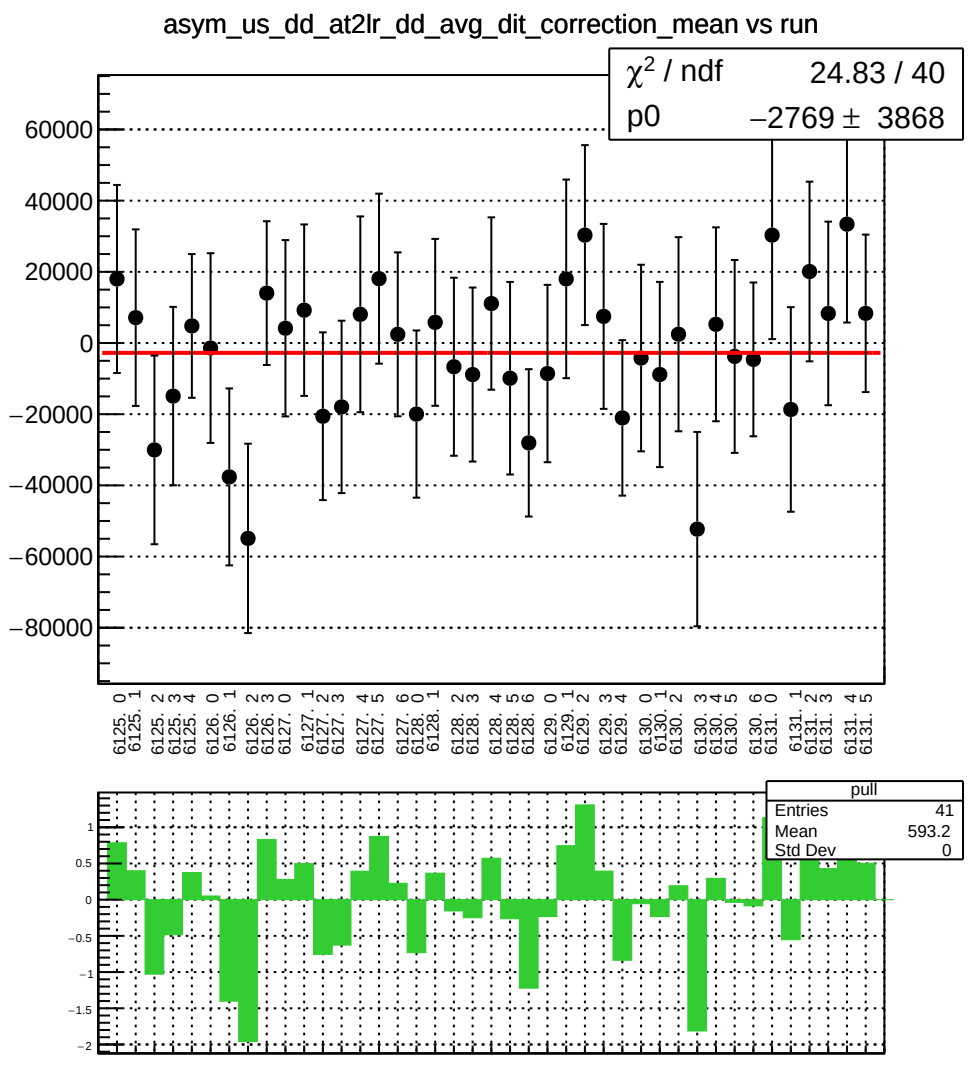
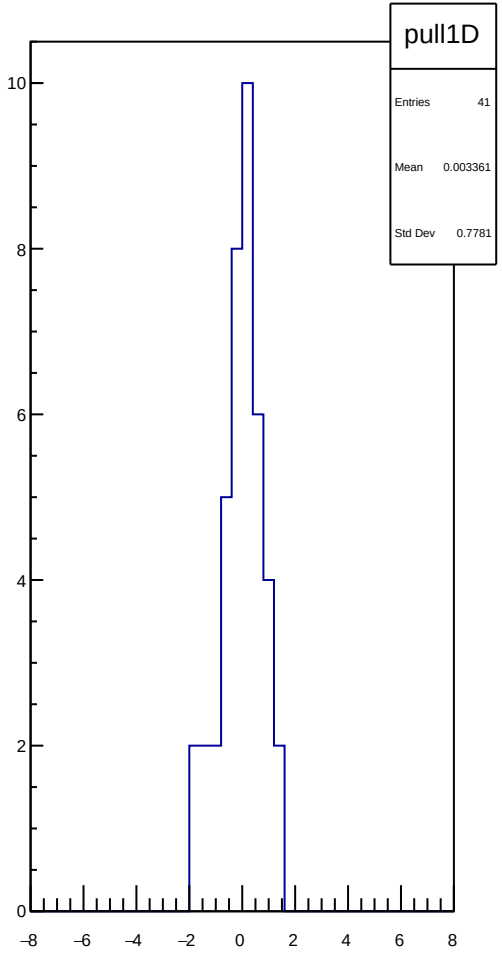
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

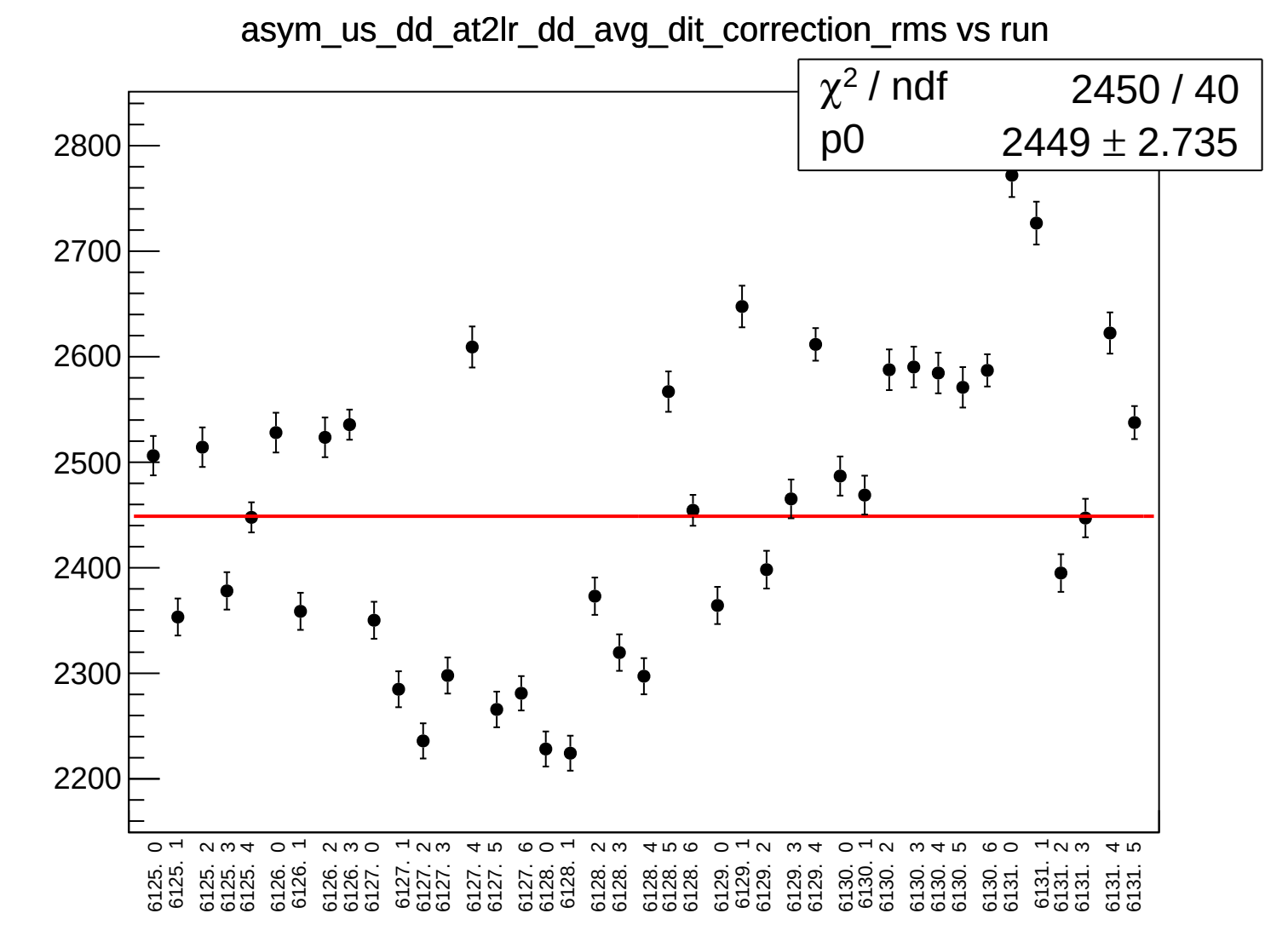

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 38.49 / 40
p0 2994 ± 3266
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −6.142
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

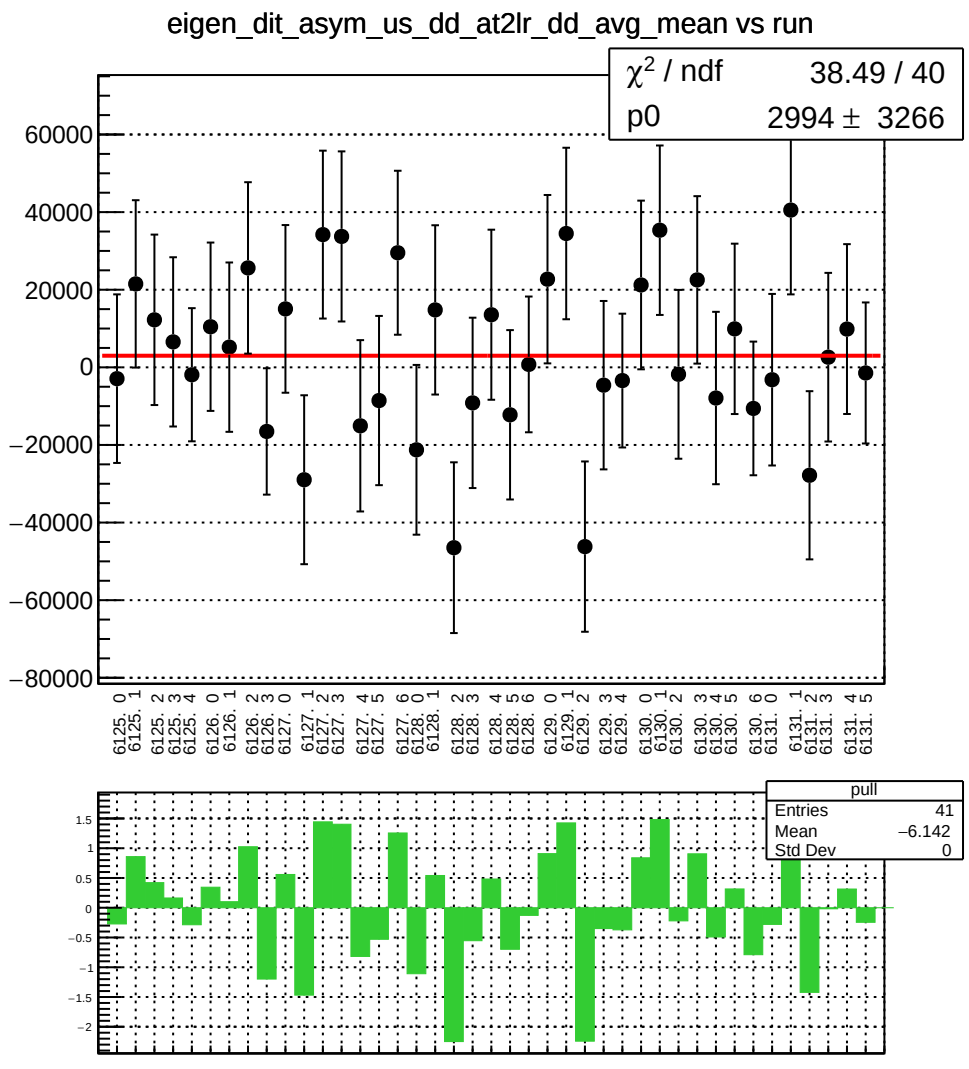

pull1D
Entries 41
Mean 0.01904
Std Dev 0.9687
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

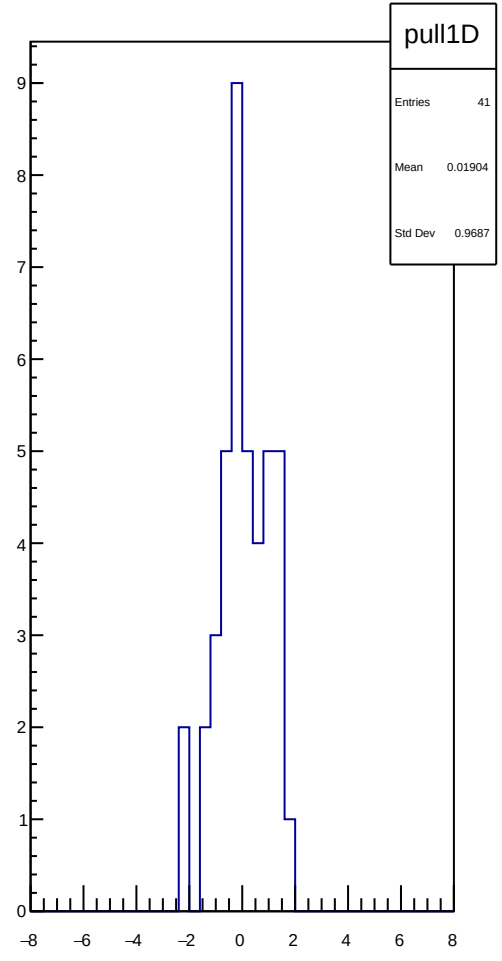

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 43.3 / 40
p0 2071 ± 2.309
2120
2100
2080
2060
2040
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

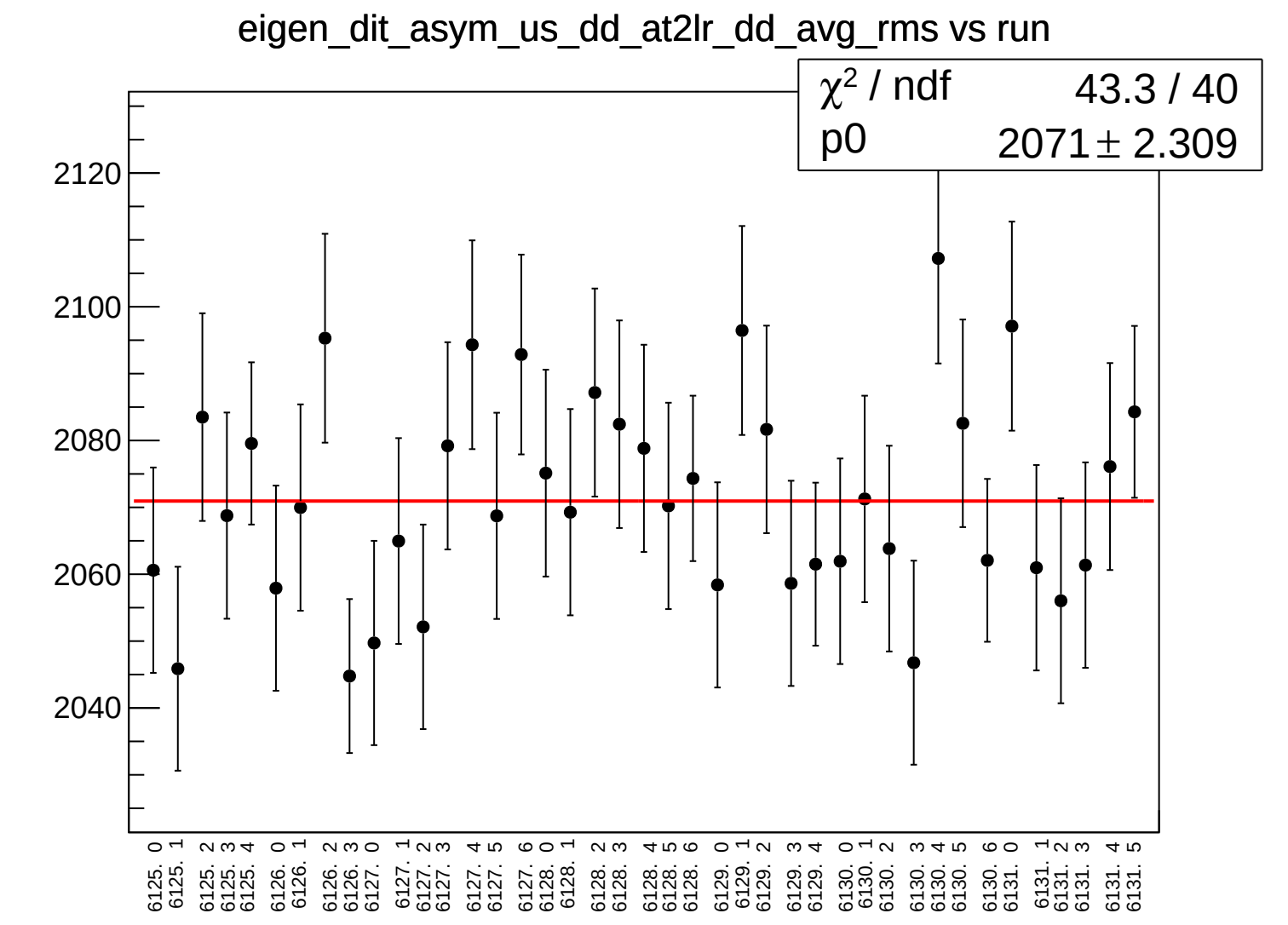

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 24.83 / 40
p0 −2769 ± 3868
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 593.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

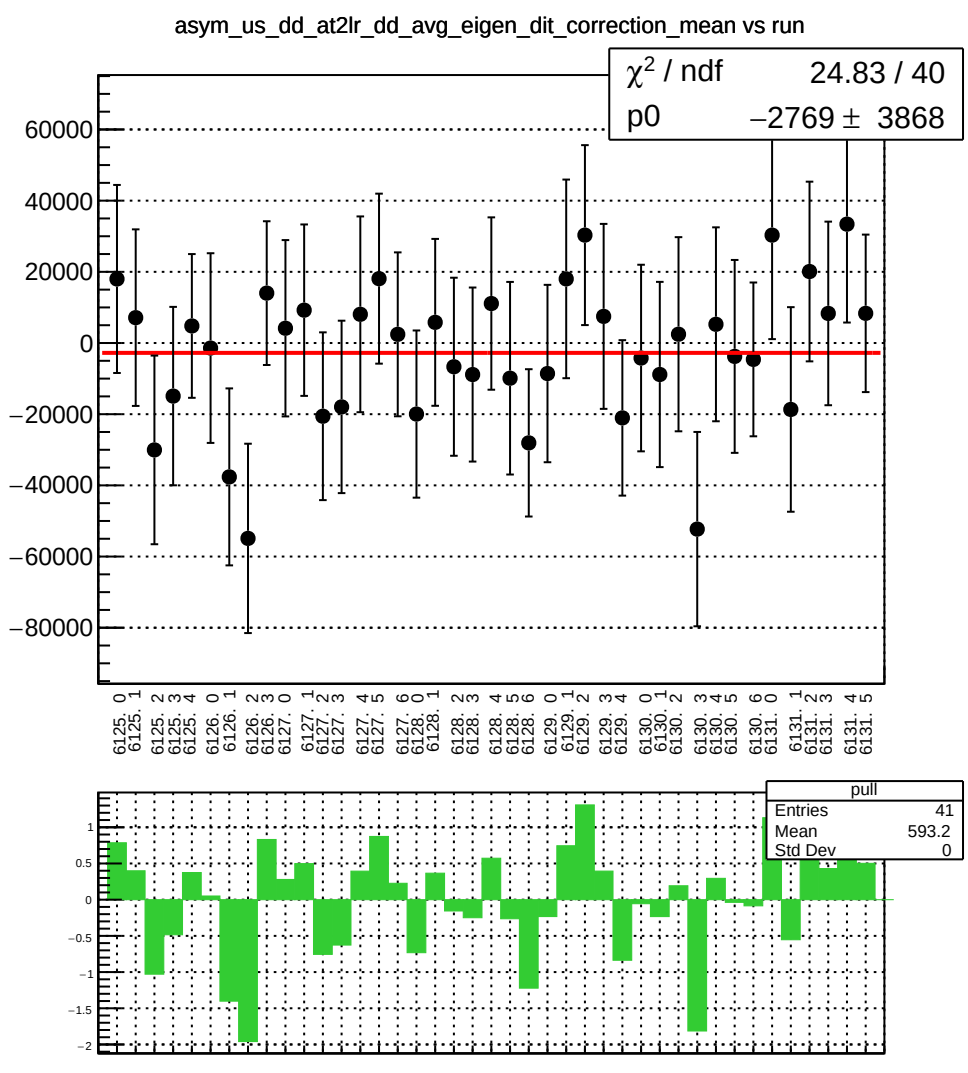

pull1D
Entries 41
Mean 0.003361
Std Dev 0.7781
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

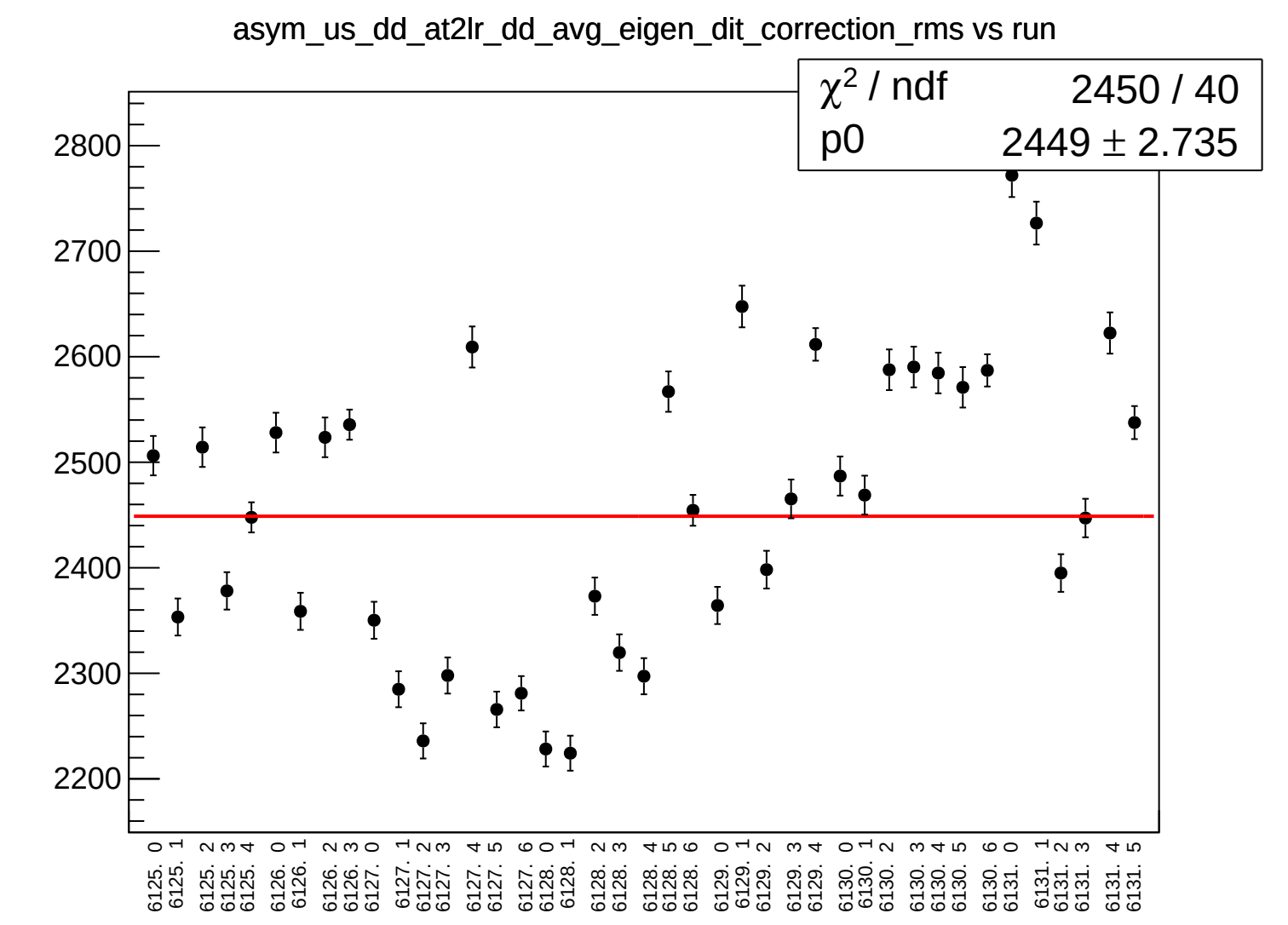

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2450 / 40
p0 2449 ± 2.735
2800
2700
2600
2500
2400
2300
2200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

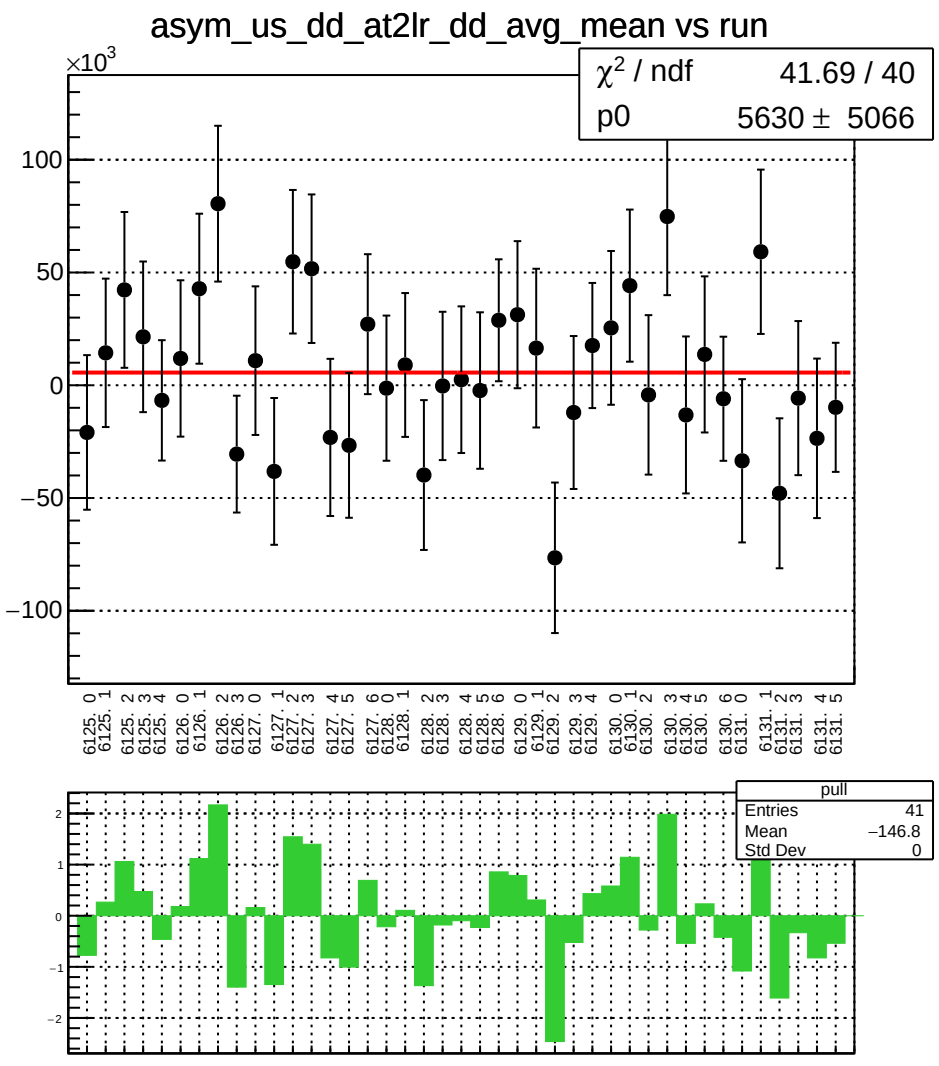

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 38.49 / 40
p0 2994 ± 3266
pull
Entries 41
Mean −6.142
Std Dev 0

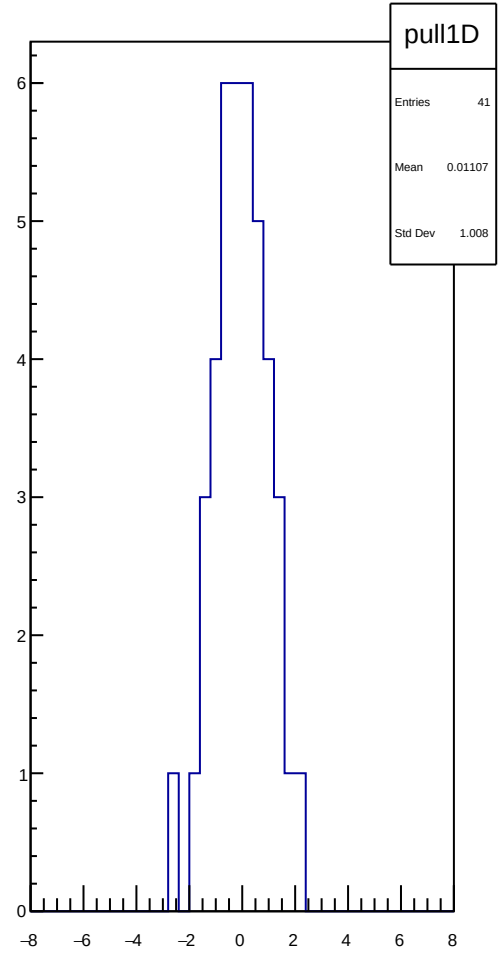

pull1D
Entries 41
Mean 0.01904
Std Dev 0.9687

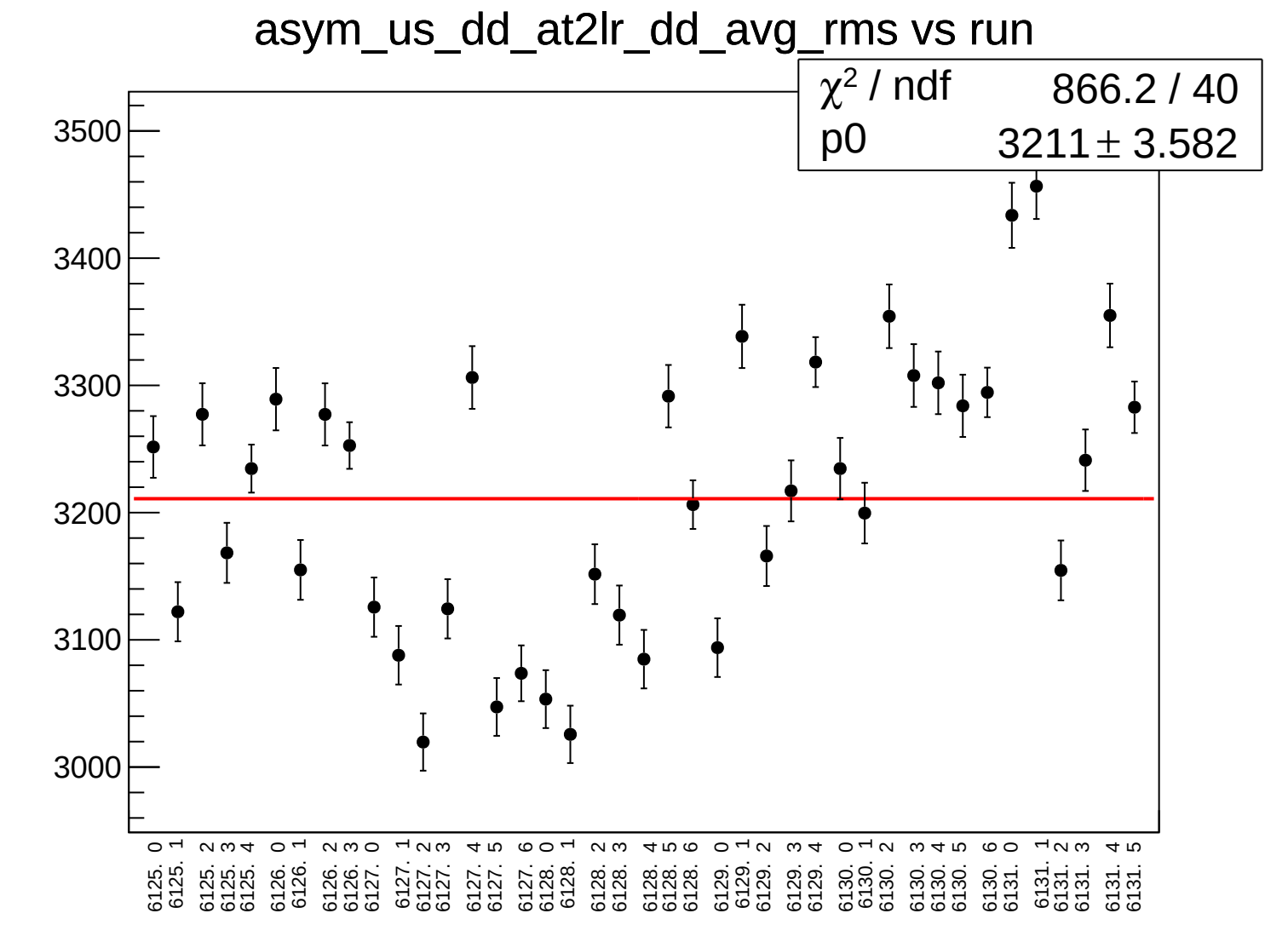

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 43.3 / 40
p0 2071 ± 2.309
2120
2100
2080
2060
2040
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

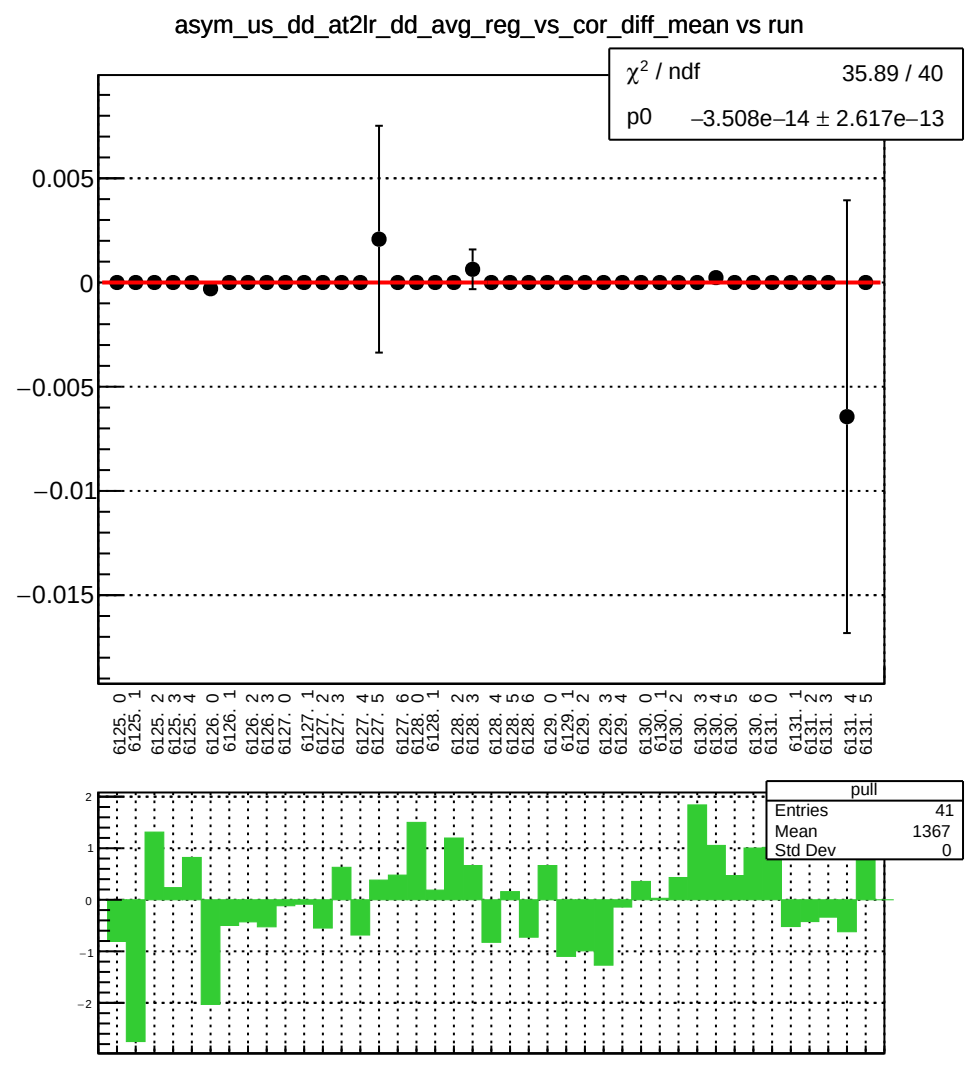

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 24.83 / 40
p0 −2769 ± 3868
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 593.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.003361
Std Dev 0.7781
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

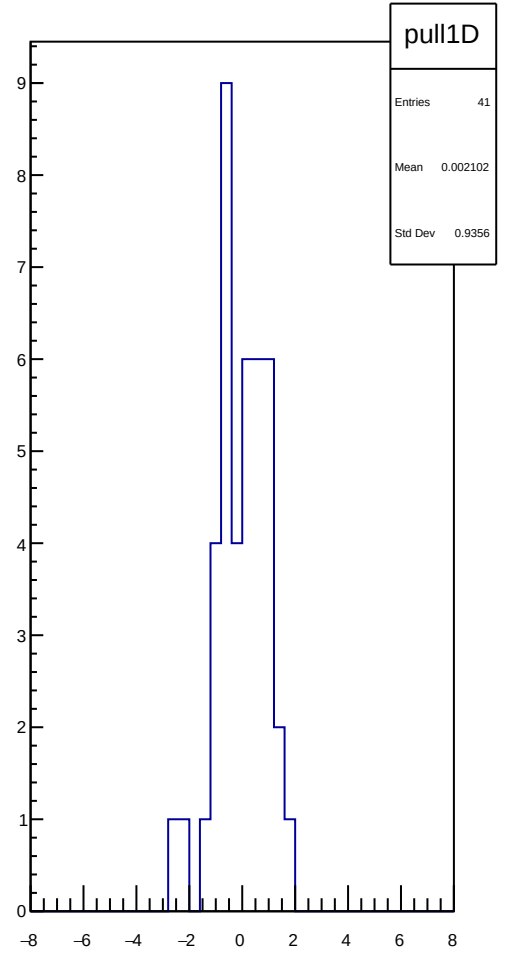

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2450 / 40
p0 2449 ± 2.735
2800
2700
2600
2500
2400
2300
2200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

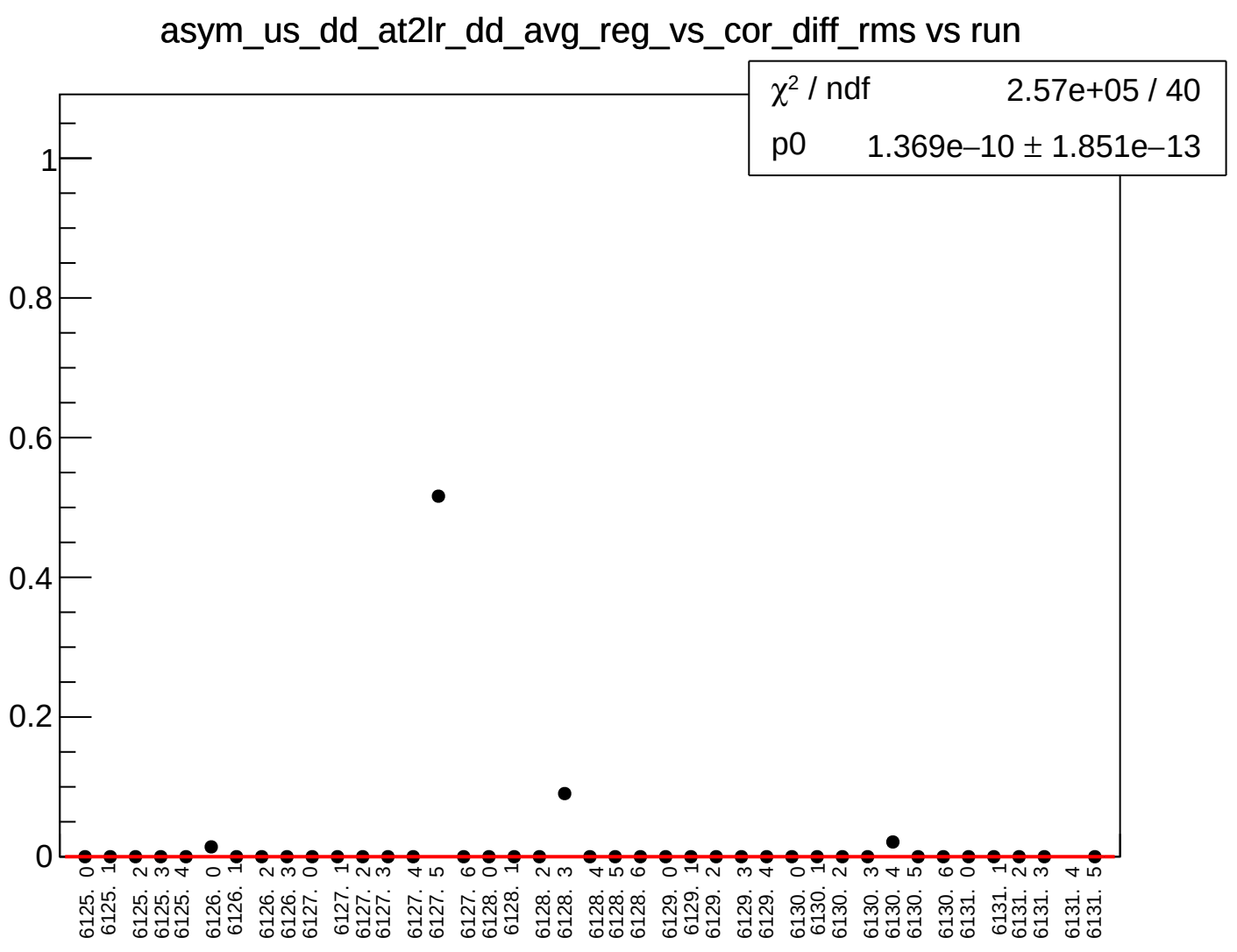

asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 41.69 / 40
p0 5630 ± 5066
×10³
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −146.8
Std Dev 0
2
1
0
−1
−2

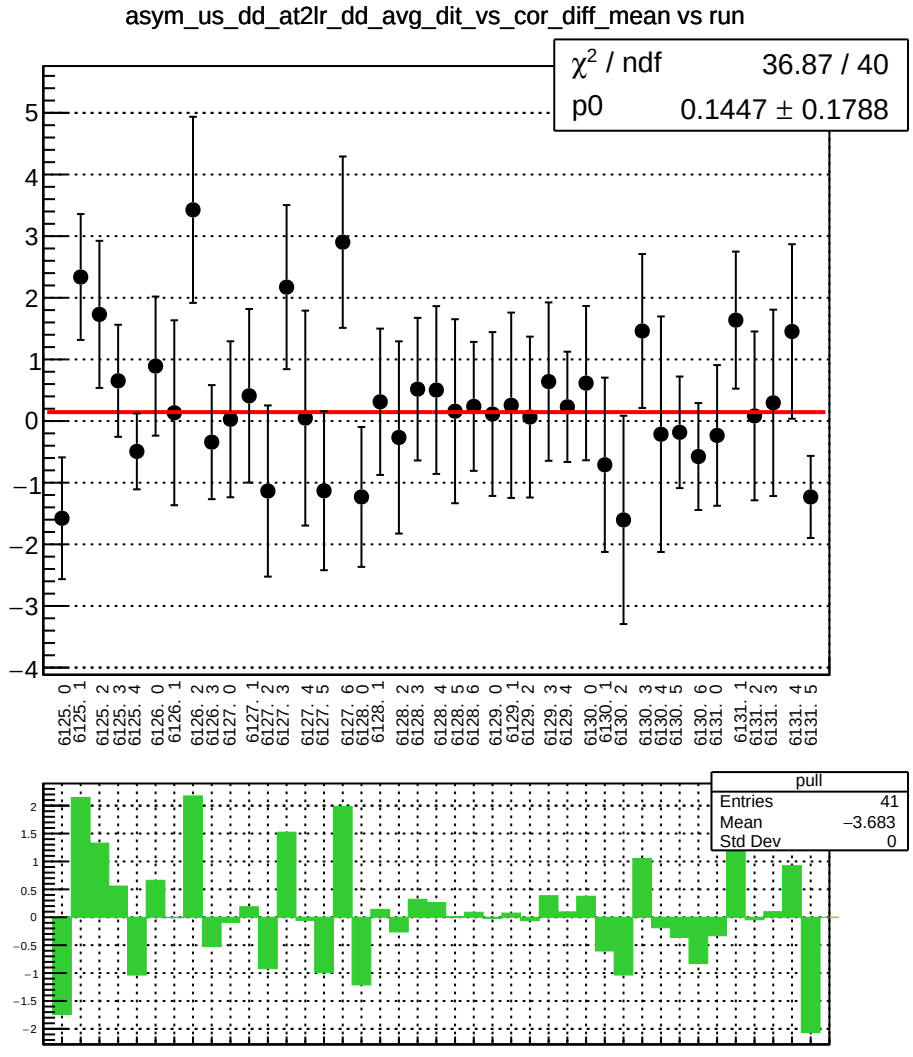

pull1D
Entries 41
Mean 0.01107
Std Dev 1.008
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

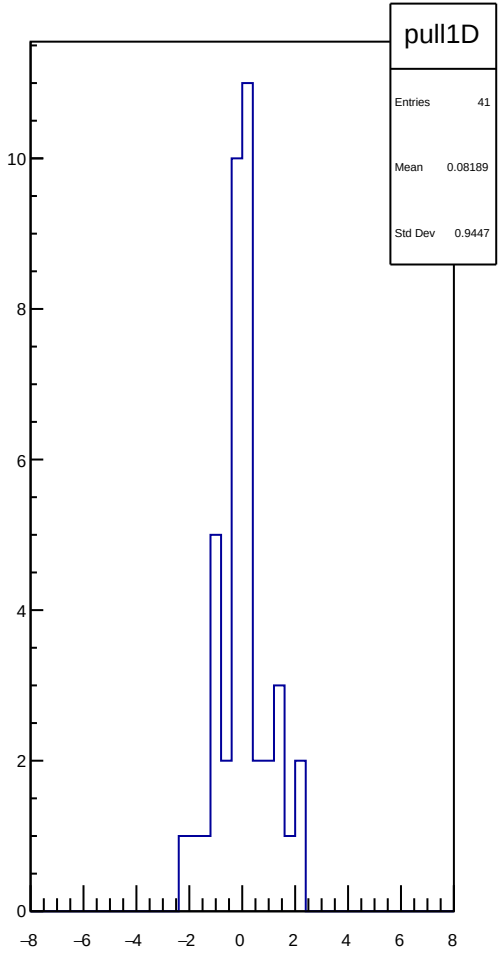

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 866.2 / 40
p0 3211 ± 3.582
3500
3400
3300
3200
3100
3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

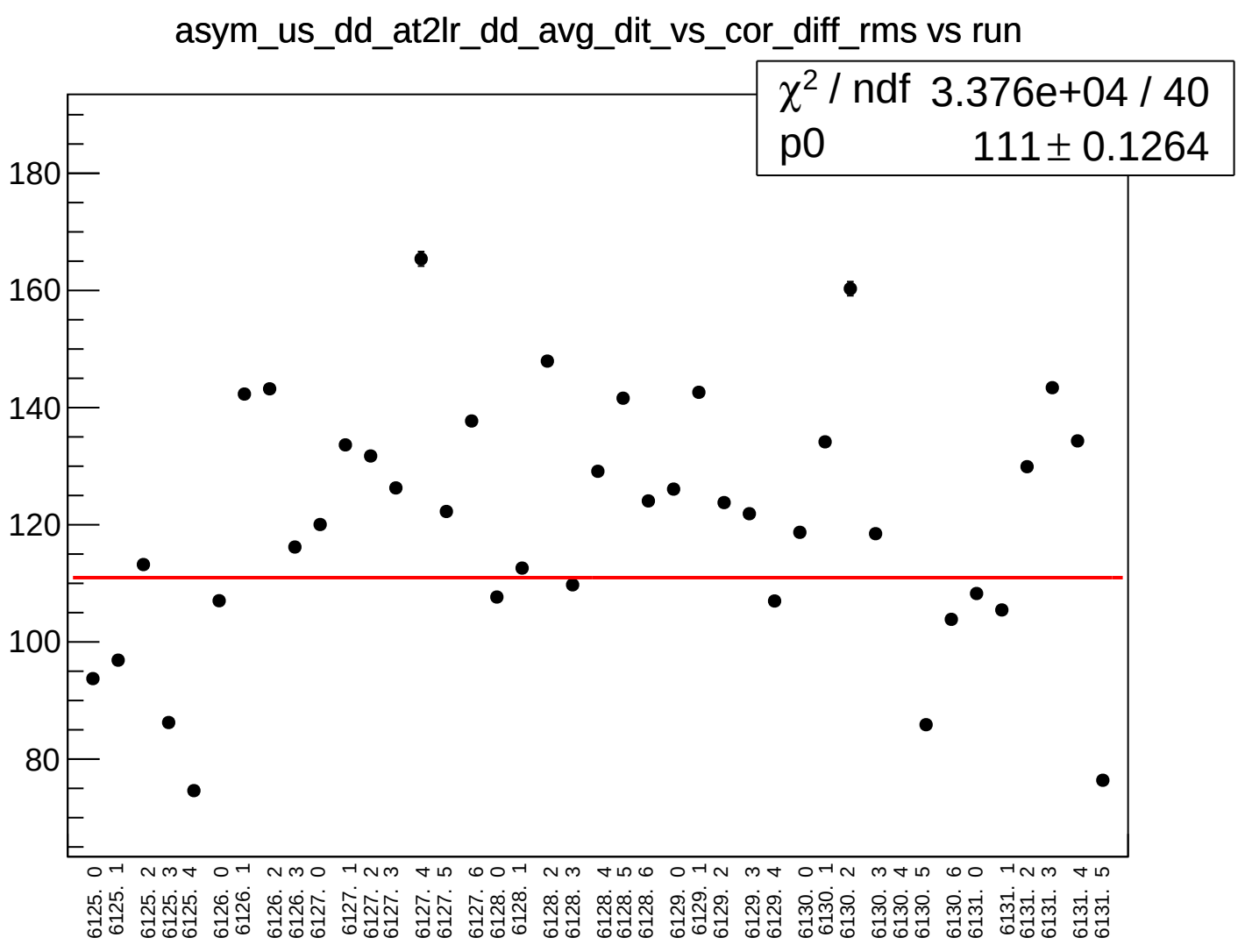

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 35.89 / 40
p0 −3.508e−14 ± 2.617e−13
0.005
0
−0.005
−0.01
−0.015
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1367
Std Dev 0
2
1
0
−1
−2

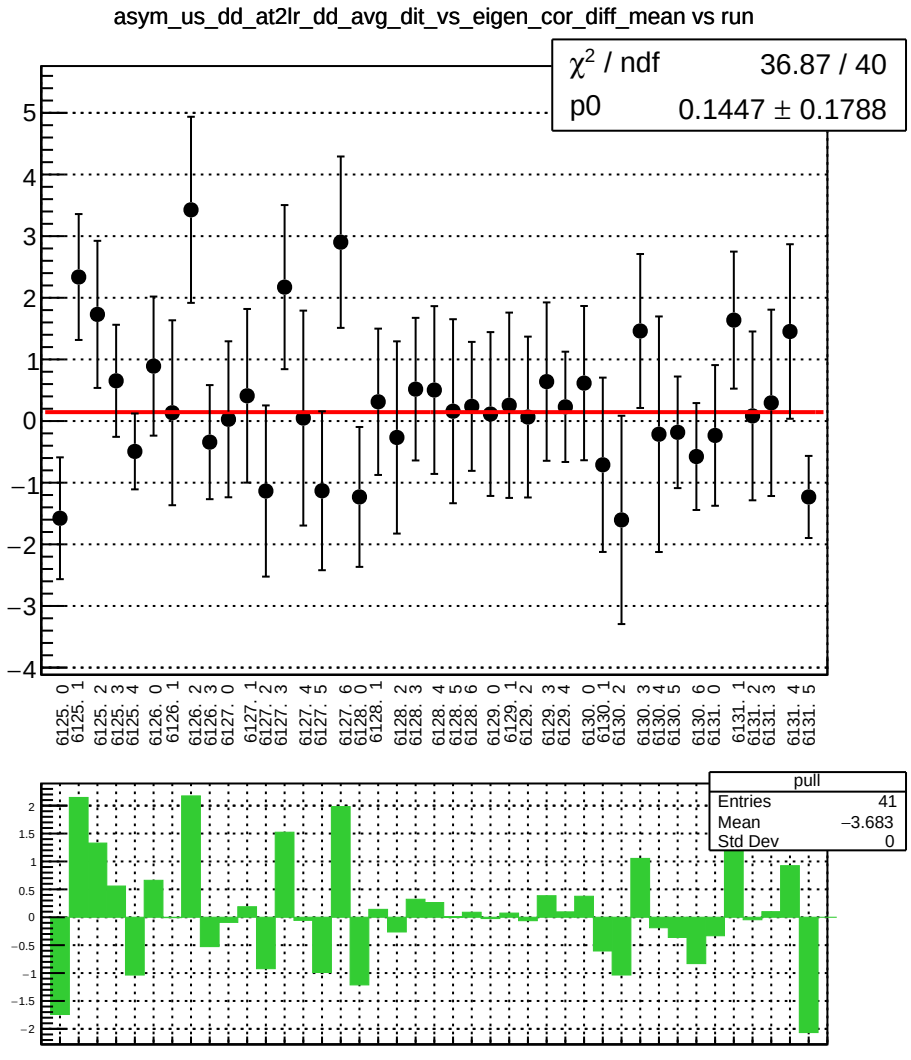

pull1D
Entries 41
Mean 0.002102
Std Dev 0.9356
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

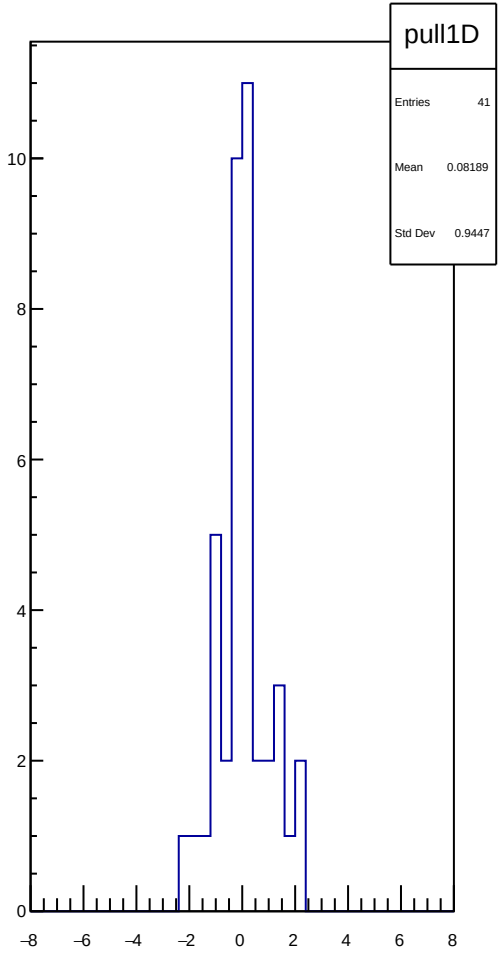

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.57e+05 / 40
p0 1.369e−10 ± 1.851e−13
1
0.8
0.6
0.4
0.2
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

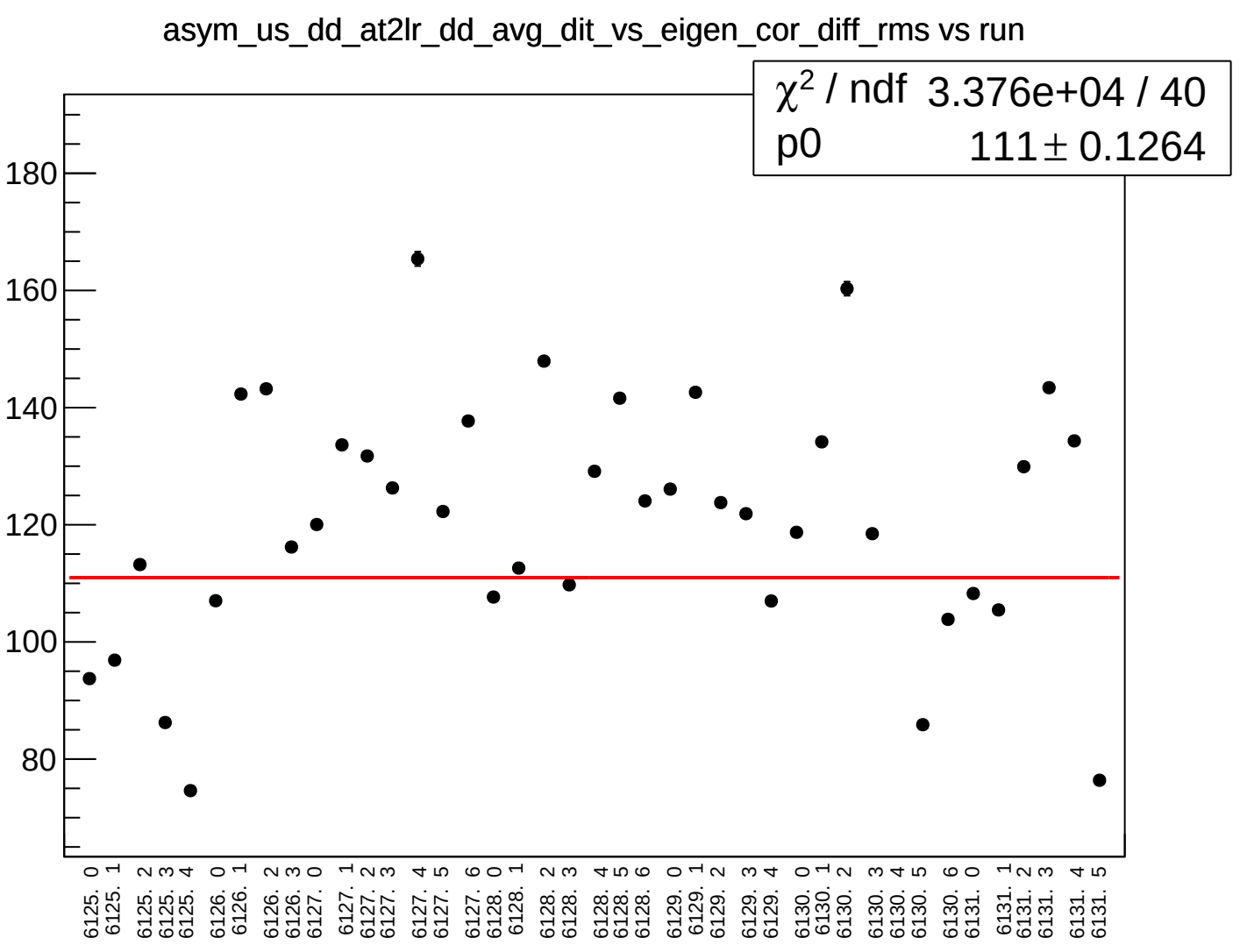

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 36.87 / 40
p0 0.1447 ± 0.1788
pull
Entries 41
Mean −3.683
Std Dev 0

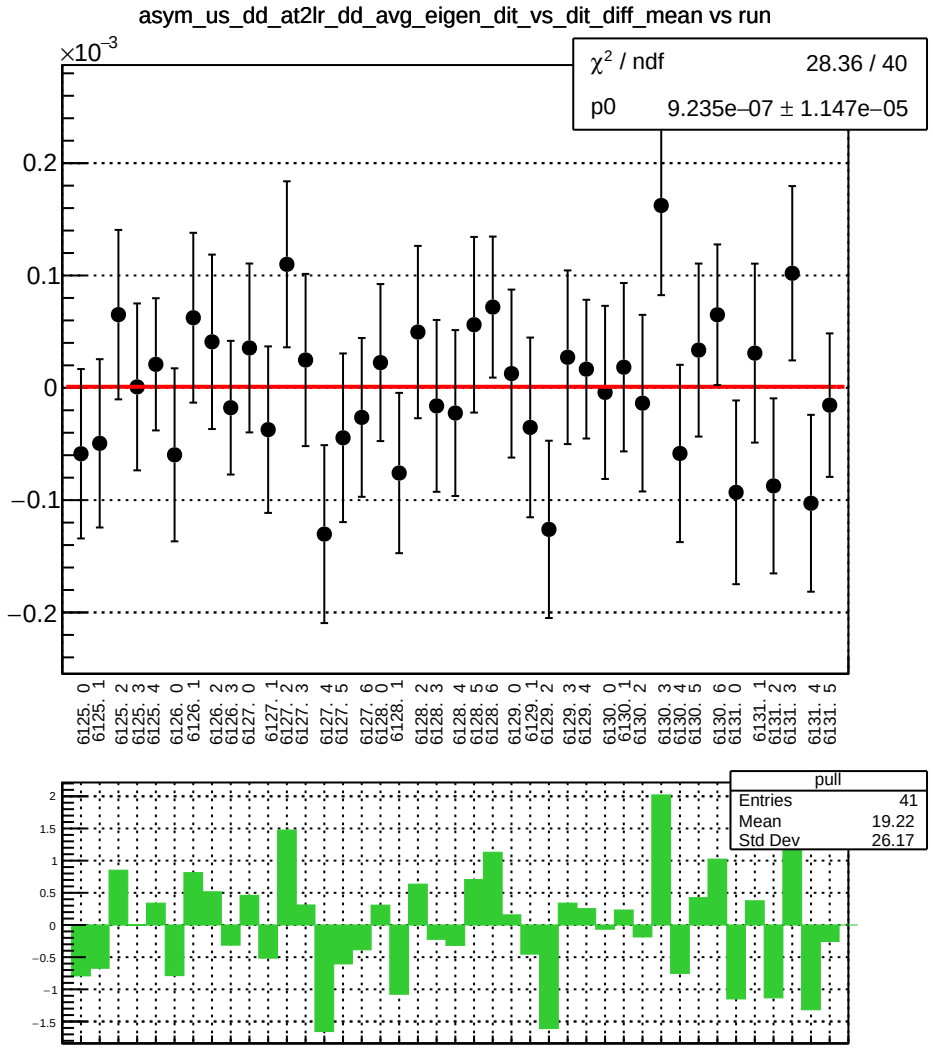

pull1D
Entries 41
Mean 0.08189
Std Dev 0.9447

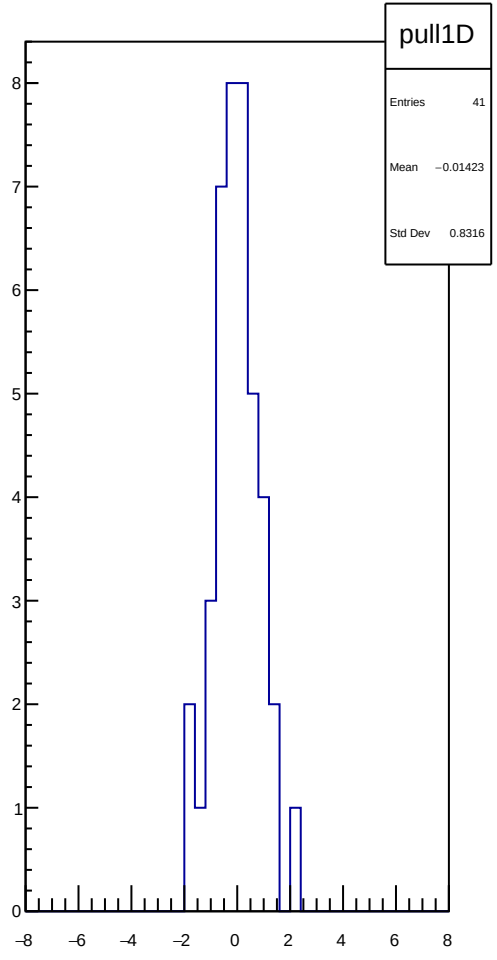

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.376e+04 / 40
p0 111 ± 0.1264
180
160
140
120
100
80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

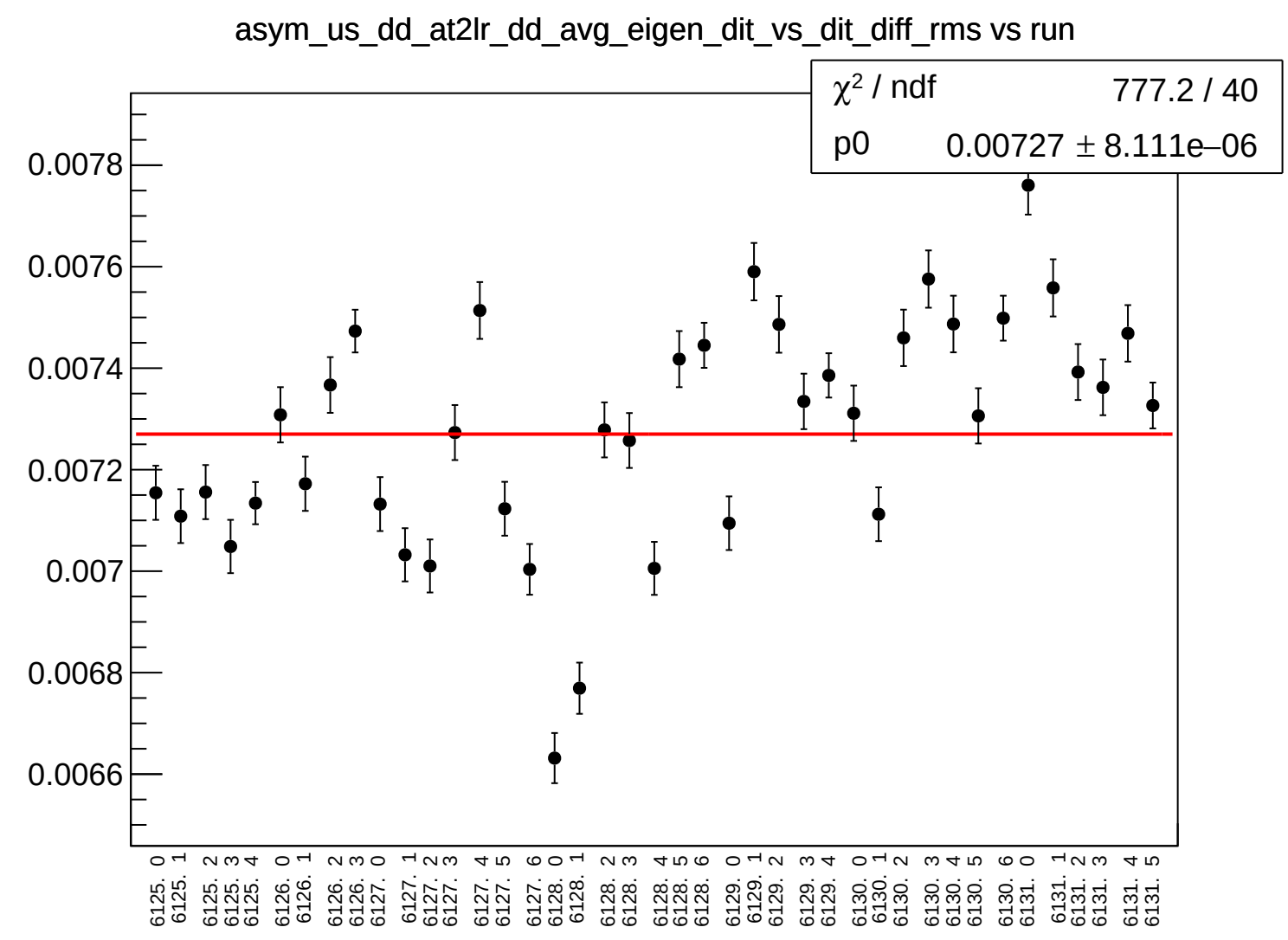

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.87 / 40
p0 0.1447 ± 0.1788
pull
Entries 41
Mean −3.683
Std Dev 0

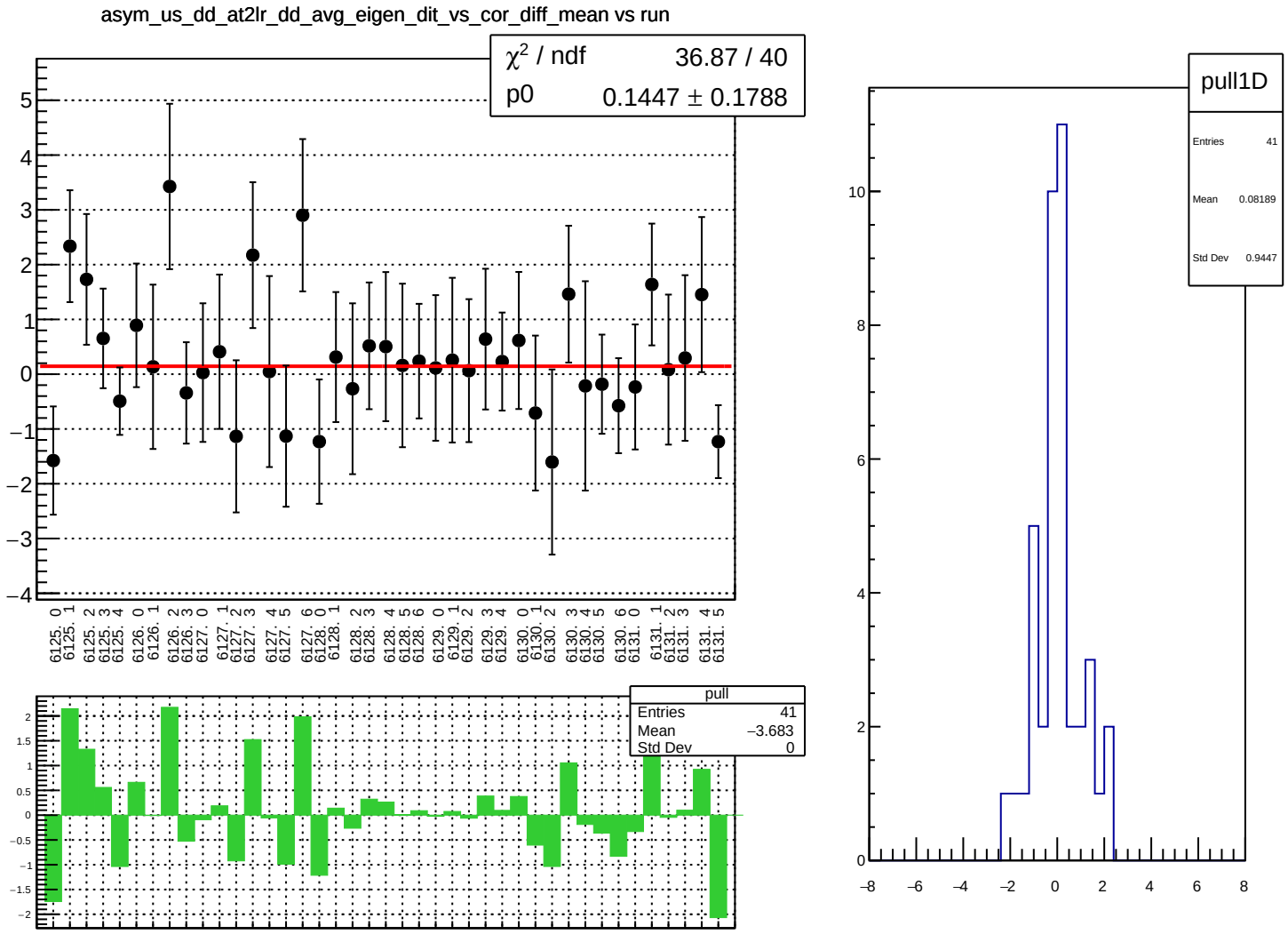

pull1D
Entries 41
Mean 0.08189
Std Dev 0.9447

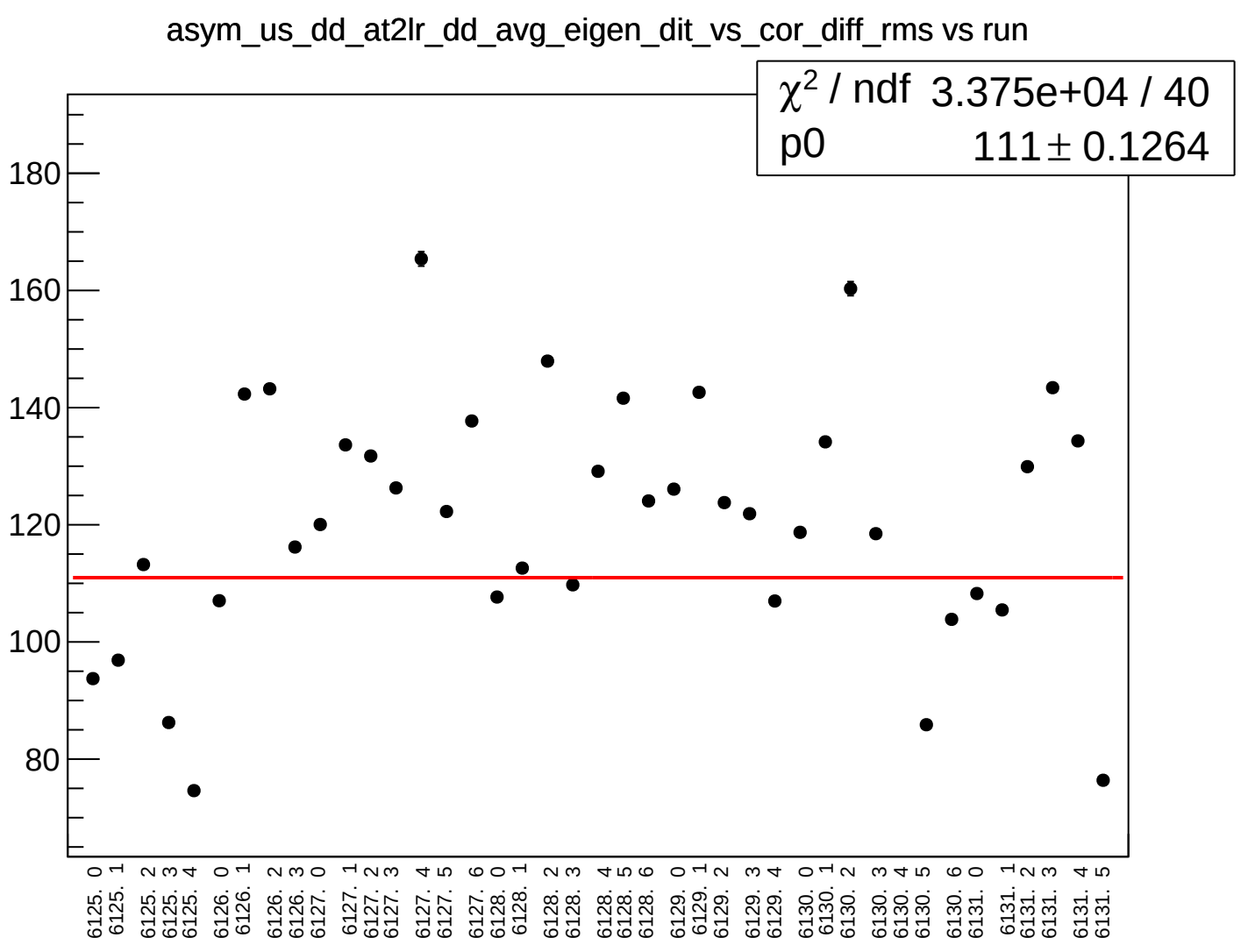

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.376e+04 / 40
p0 111 ± 0.1264
180
160
140
120
100
80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

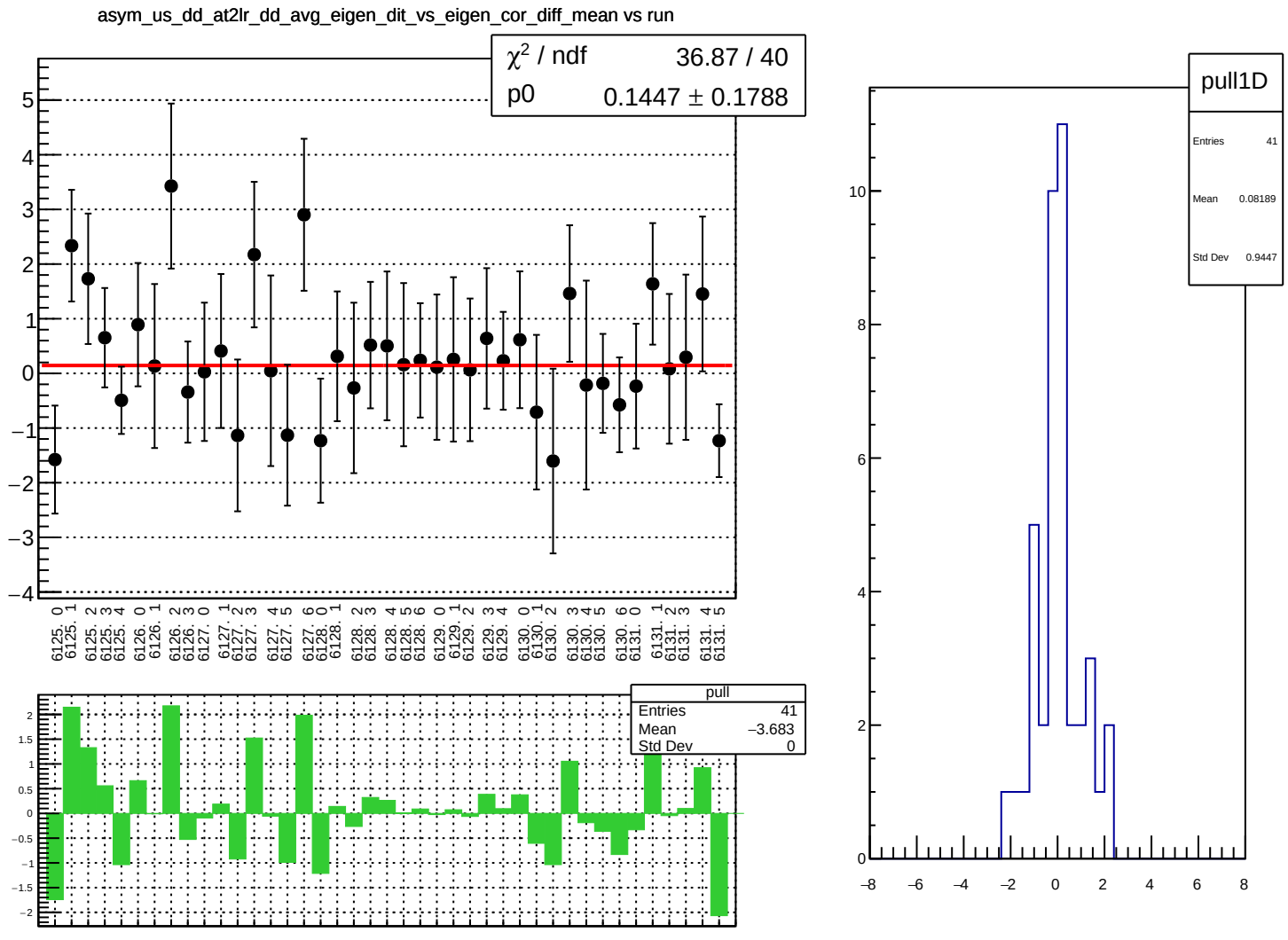

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 28.36 / 40
p0 9.235e−07 ± 1.147e−05
0.2
0.1
0
−0.1
−0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 19.22
Std Dev 26.17
2
1.5
1
0.5
0
−0.5
−1
−1.5

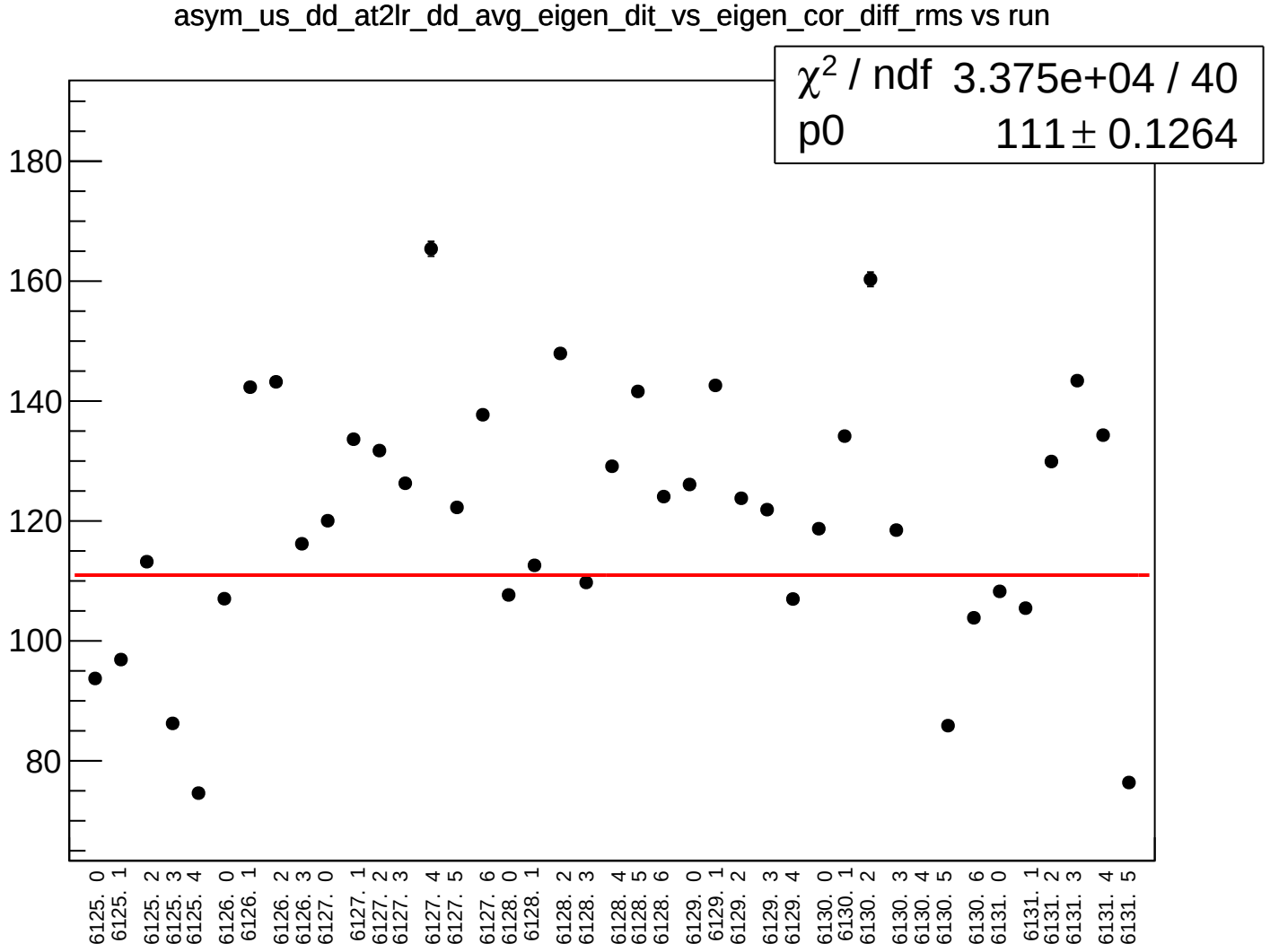

pull1D
Entries 41
Mean −0.01423
Std Dev 0.8316
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

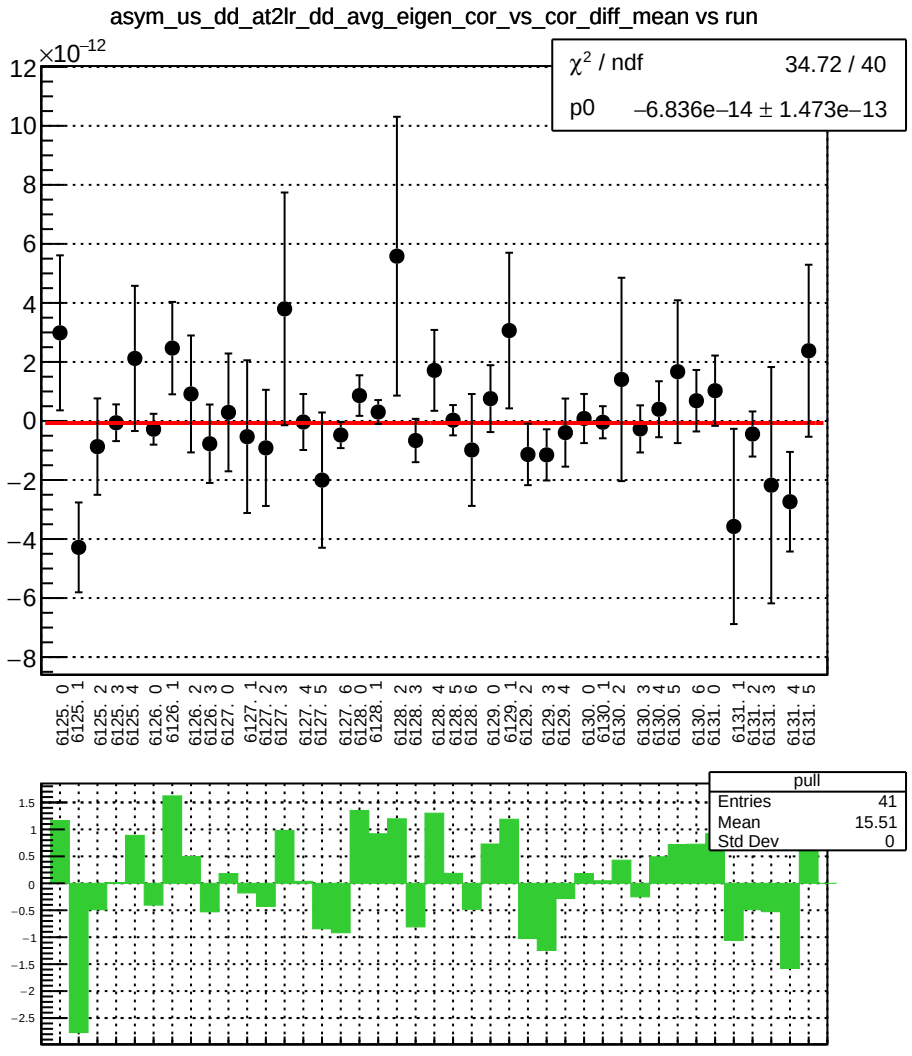

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 777.2 / 40
p0 0.00727 ± 8.111e–06
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

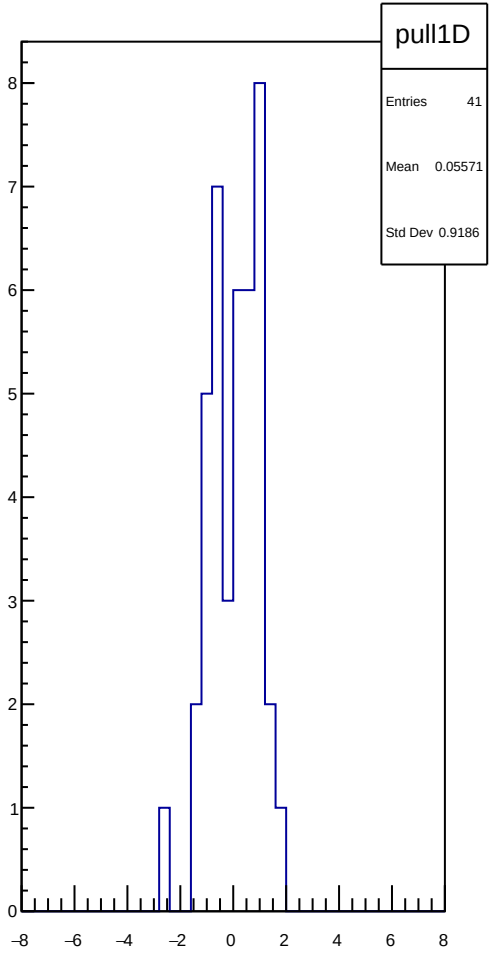

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.87 / 40
p0 0.1447 ± 0.1788
pull
Entries 41
Mean −3.683
Std Dev 0
pull1D
Entries 41
Mean 0.08189
Std Dev 0.9447

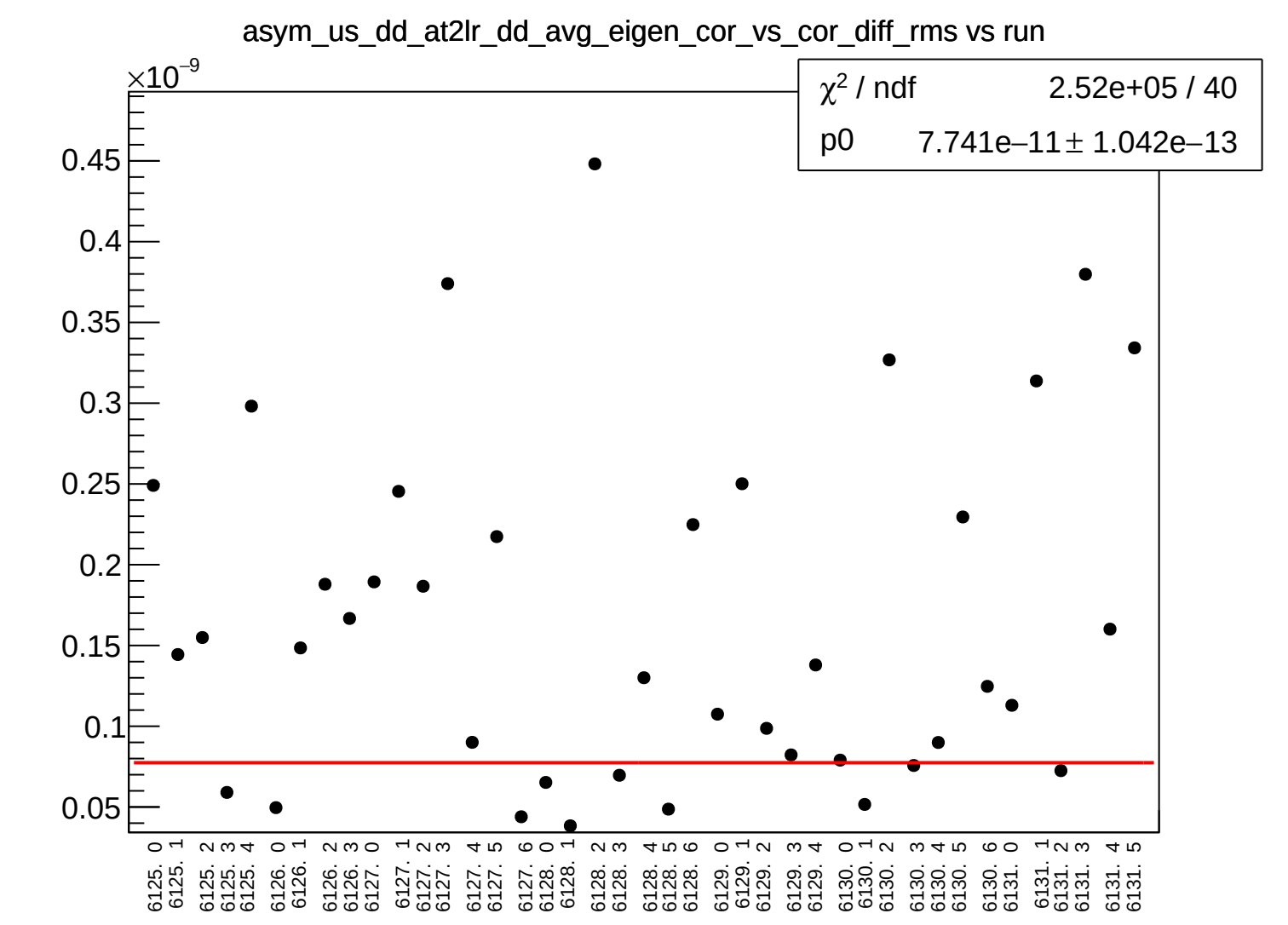

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.375e+04 / 40
p0 111 ± 0.1264
180
160
140
120
100
80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

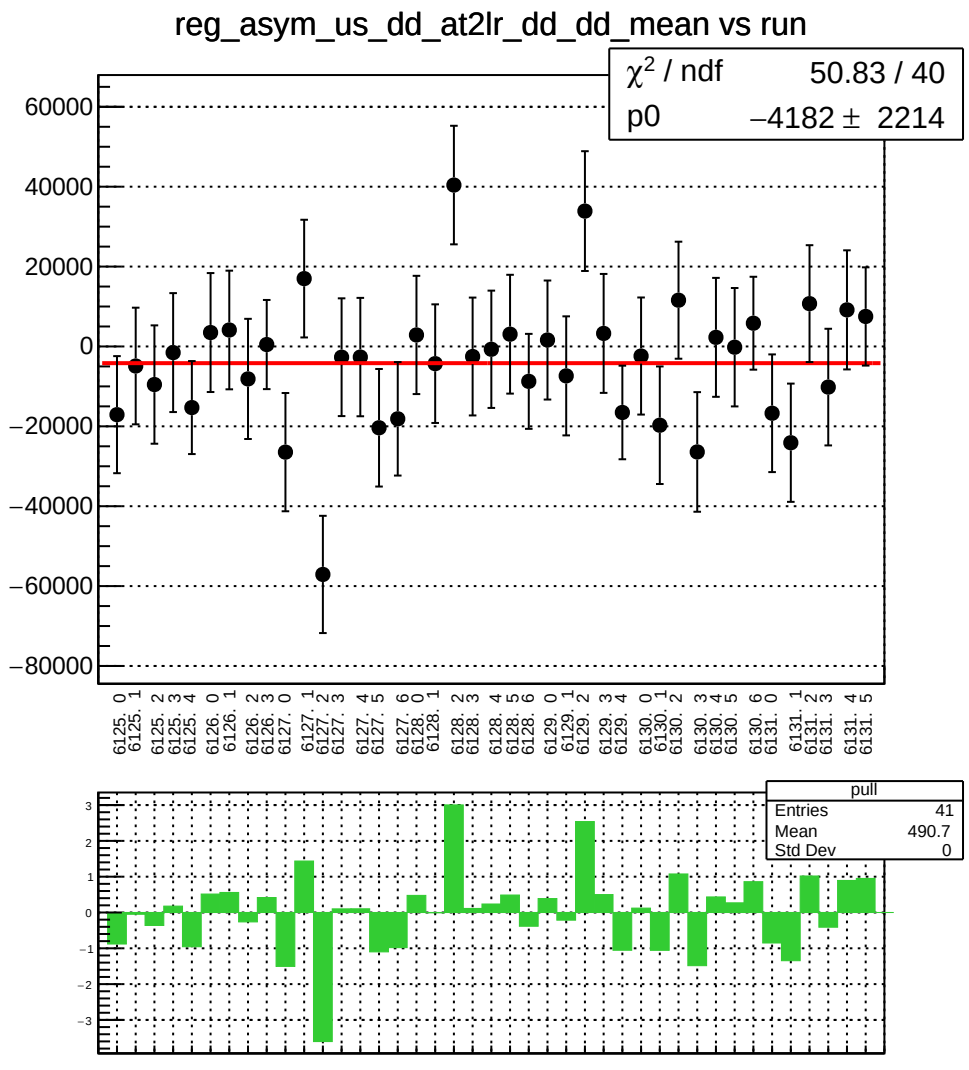

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.87 / 40
p0 0.1447 ± 0.1788
pull
Entries 41
Mean −3.683
Std Dev 0
pull1D
Entries 41
Mean 0.08189
Std Dev 0.9447

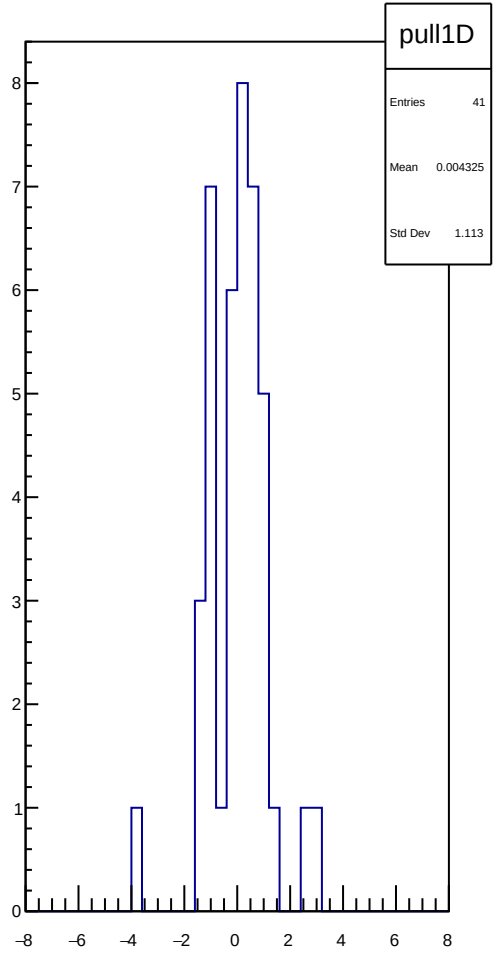

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.375e+04 / 40
p0 111 ± 0.1264
180
160
140
120
100
80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

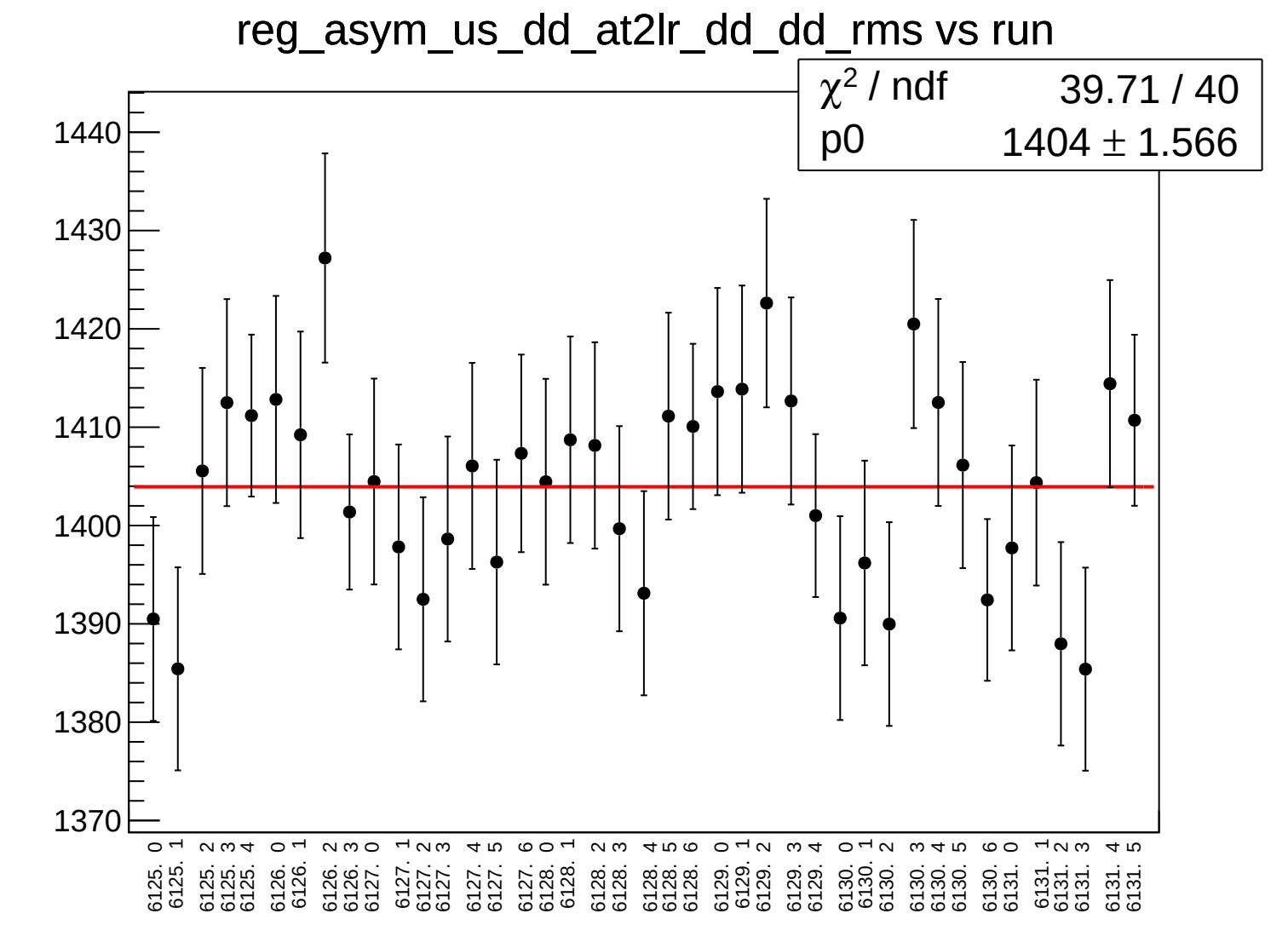

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.72 / 40
p0 −6.836e−14 ± 1.473e−13
pull
Entries 41
Mean 15.51
Std Dev 0

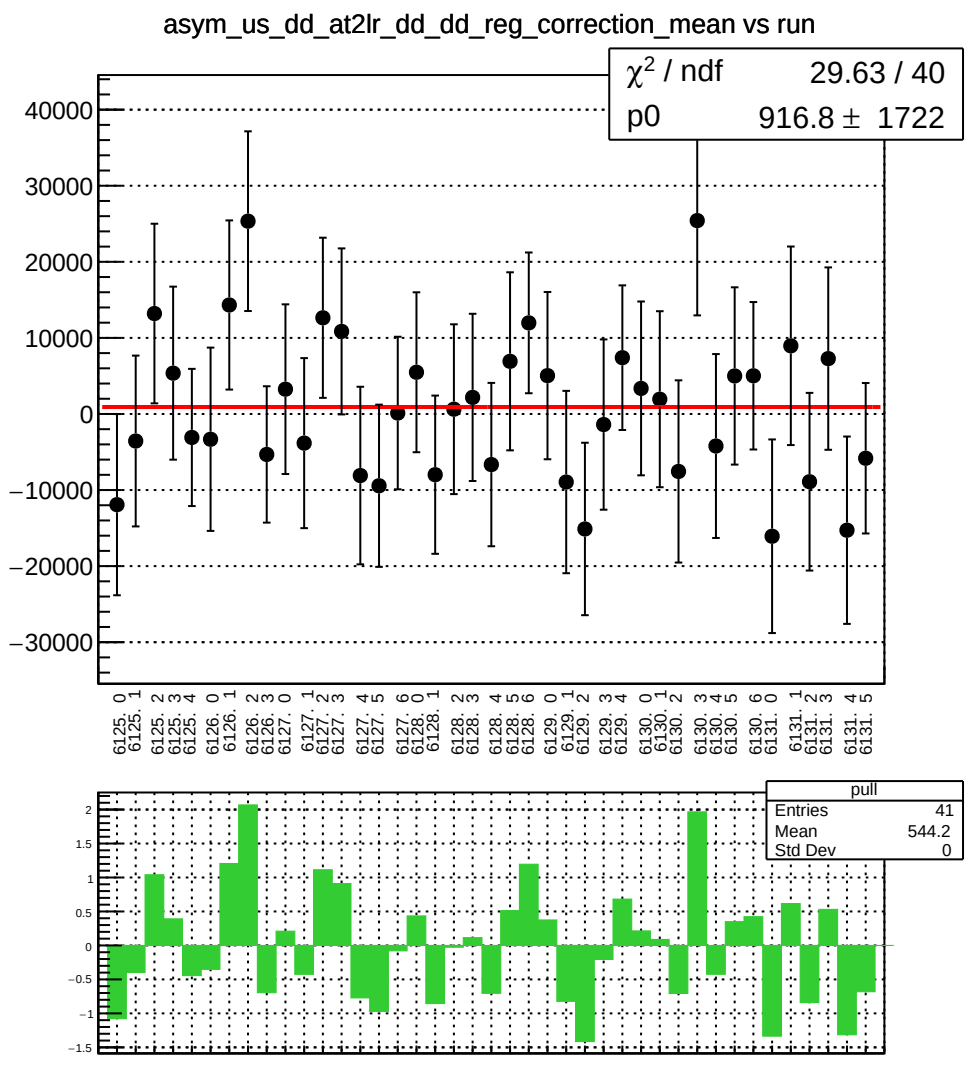

pull1D
Entries 41
Mean 0.05571
Std Dev 0.9186

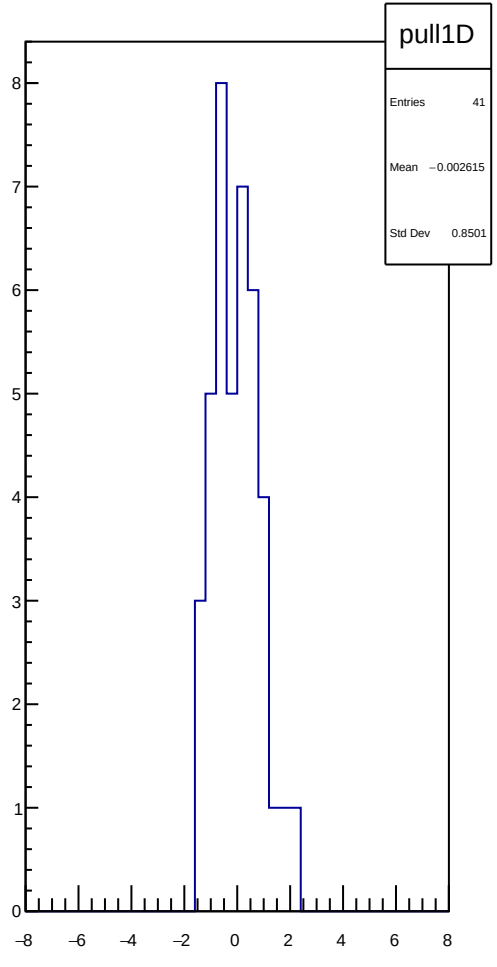

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.52e+05 / 40
p0 7.741e−11 ± 1.042e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

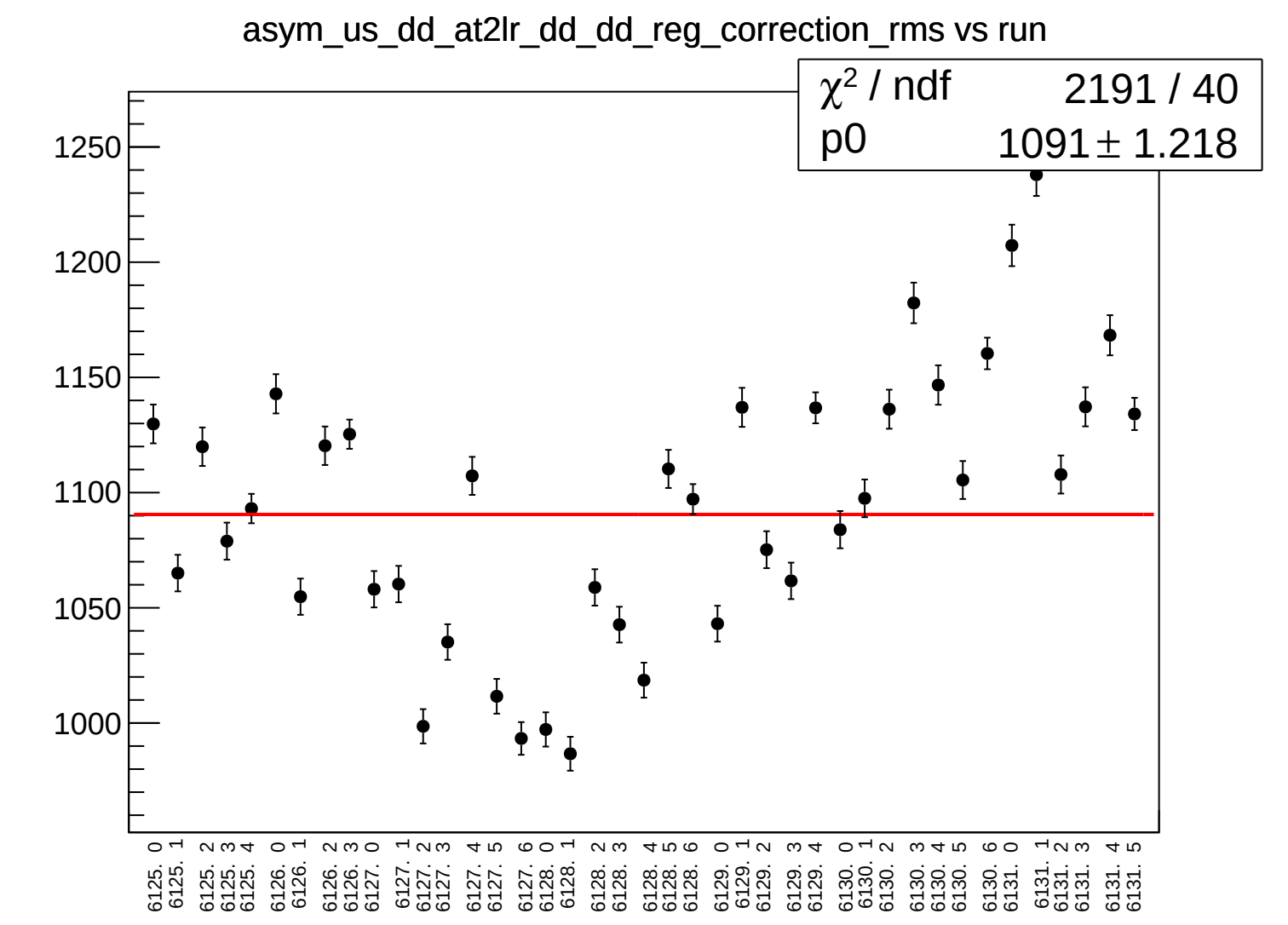

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 50.83 / 40
p0 −4182 ± 2214
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 490.7
Std Dev 0
3
2
1
0
−1
−2
−3

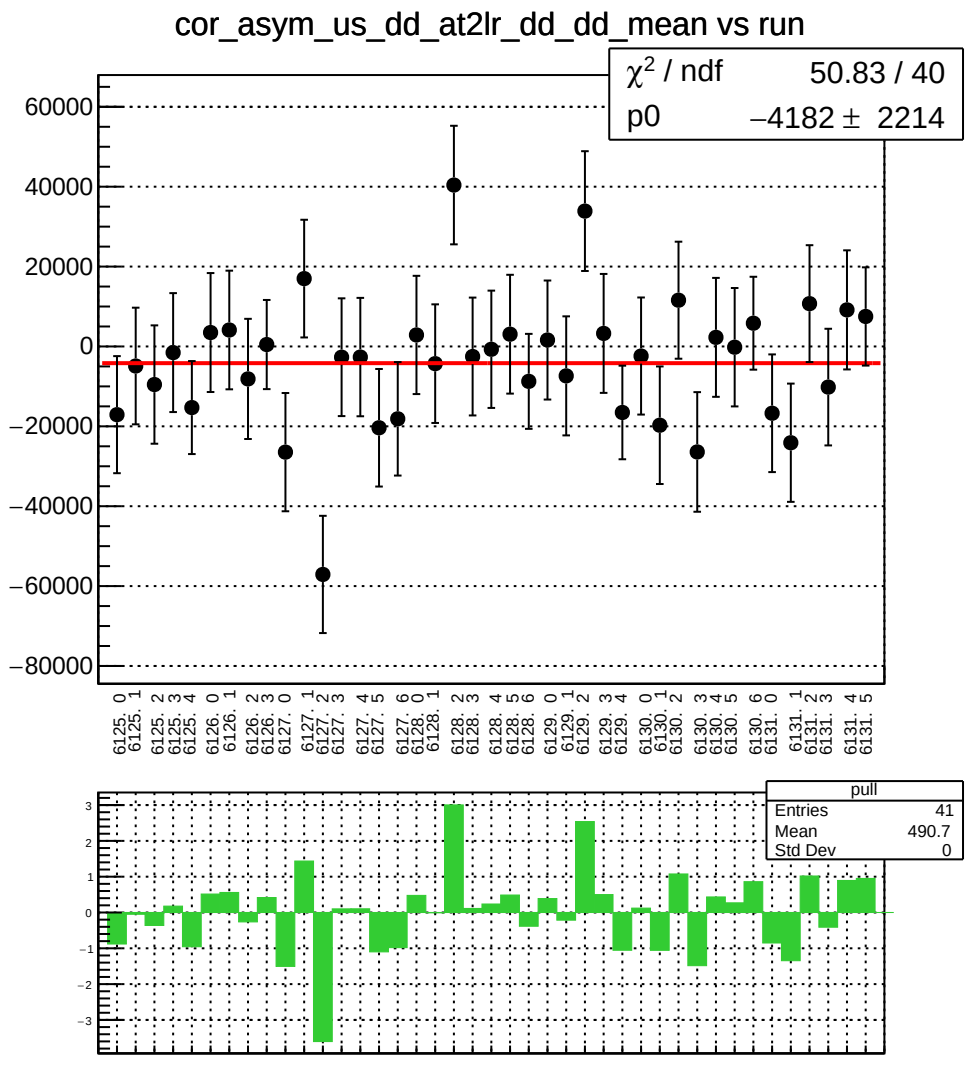

pull1D
Entries 41
Mean 0.004325
Std Dev 1.113
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

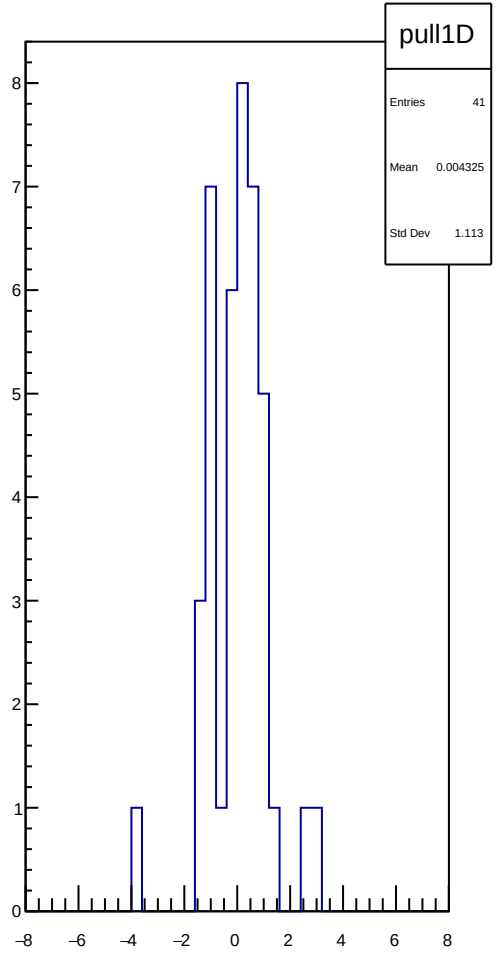

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 39.71 / 40
p0 1404 ± 1.566
1440
1430
1420
1410
1400
1390
1380
1370
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

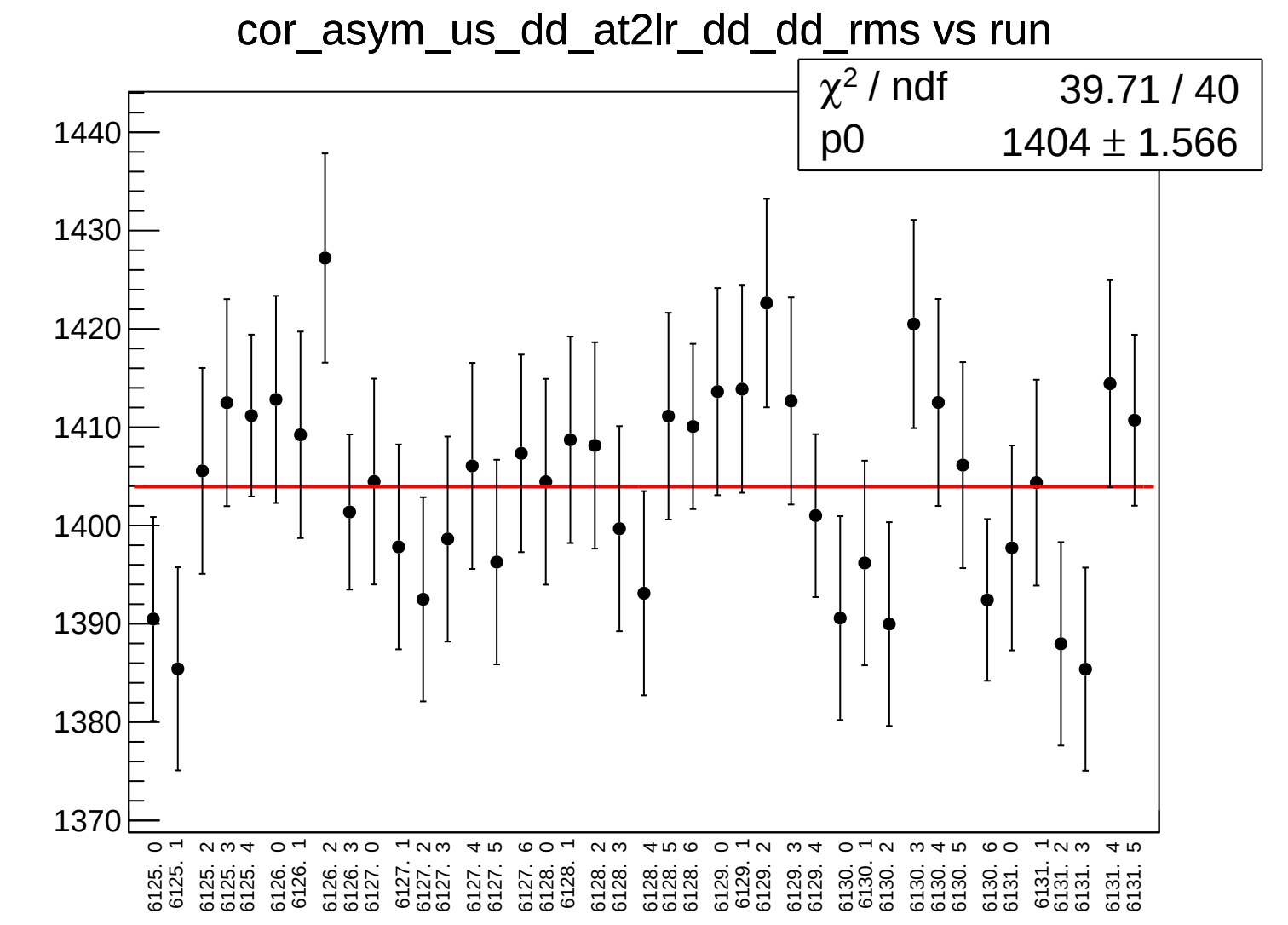

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 29.63 / 40
p0 916.8 ± 1722
pull
Entries 41
Mean 544.2
Std Dev 0

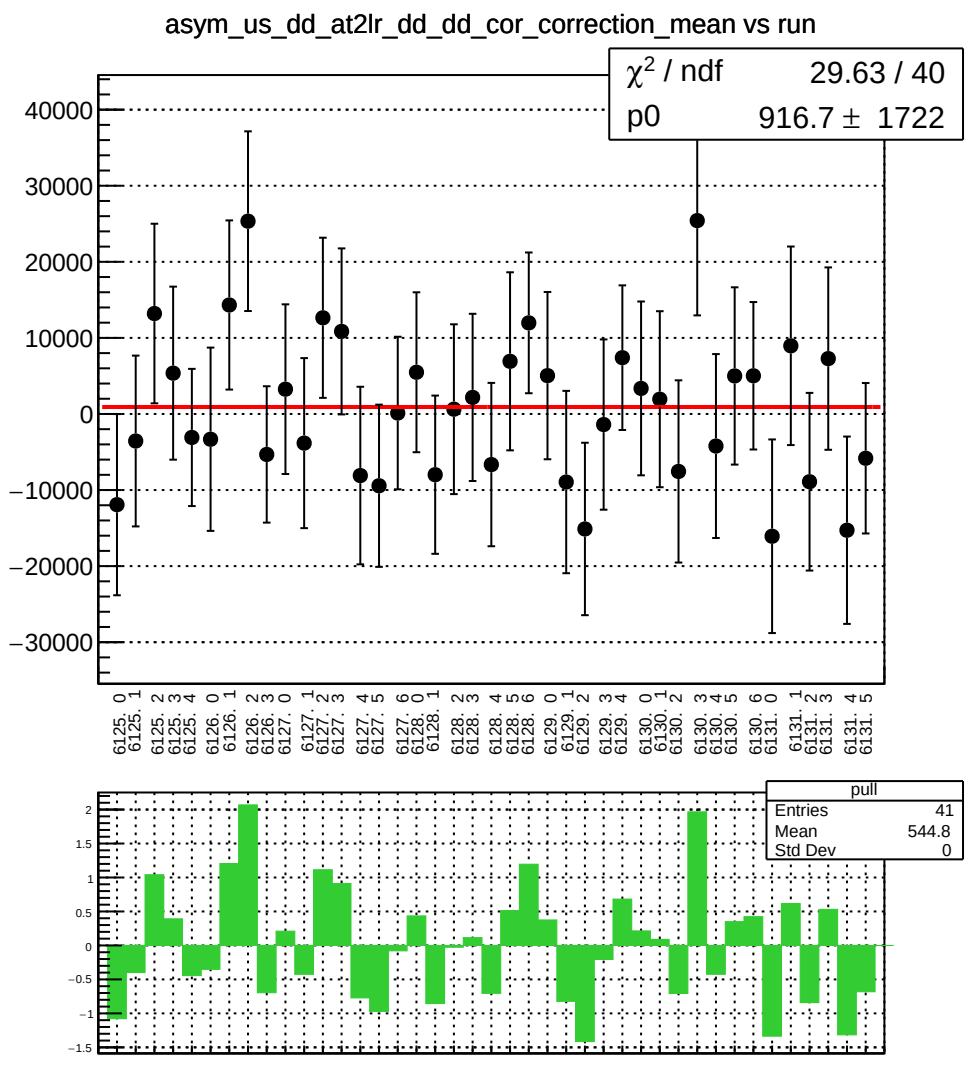

pull1D
Entries 41
Mean −0.002615
Std Dev 0.8501

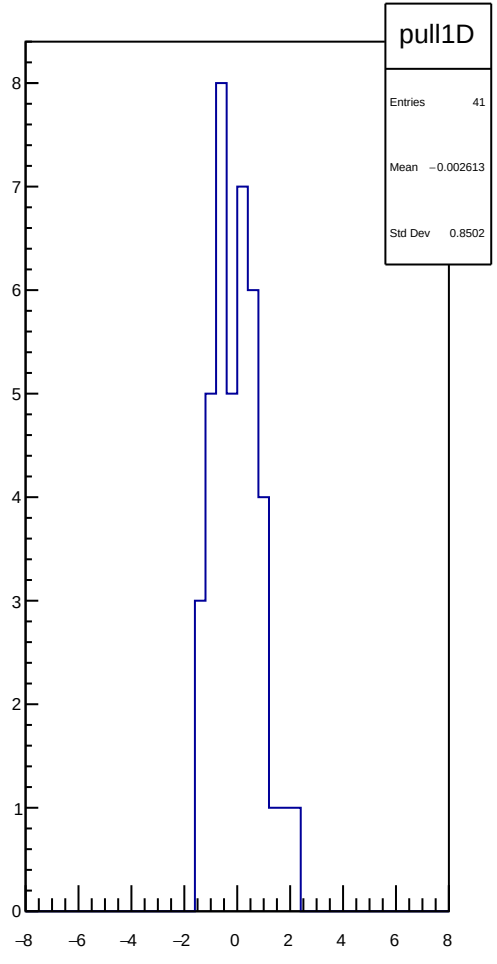

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 2191 / 40
p0 1091 ± 1.218
1250
1200
1150
1100
1050
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

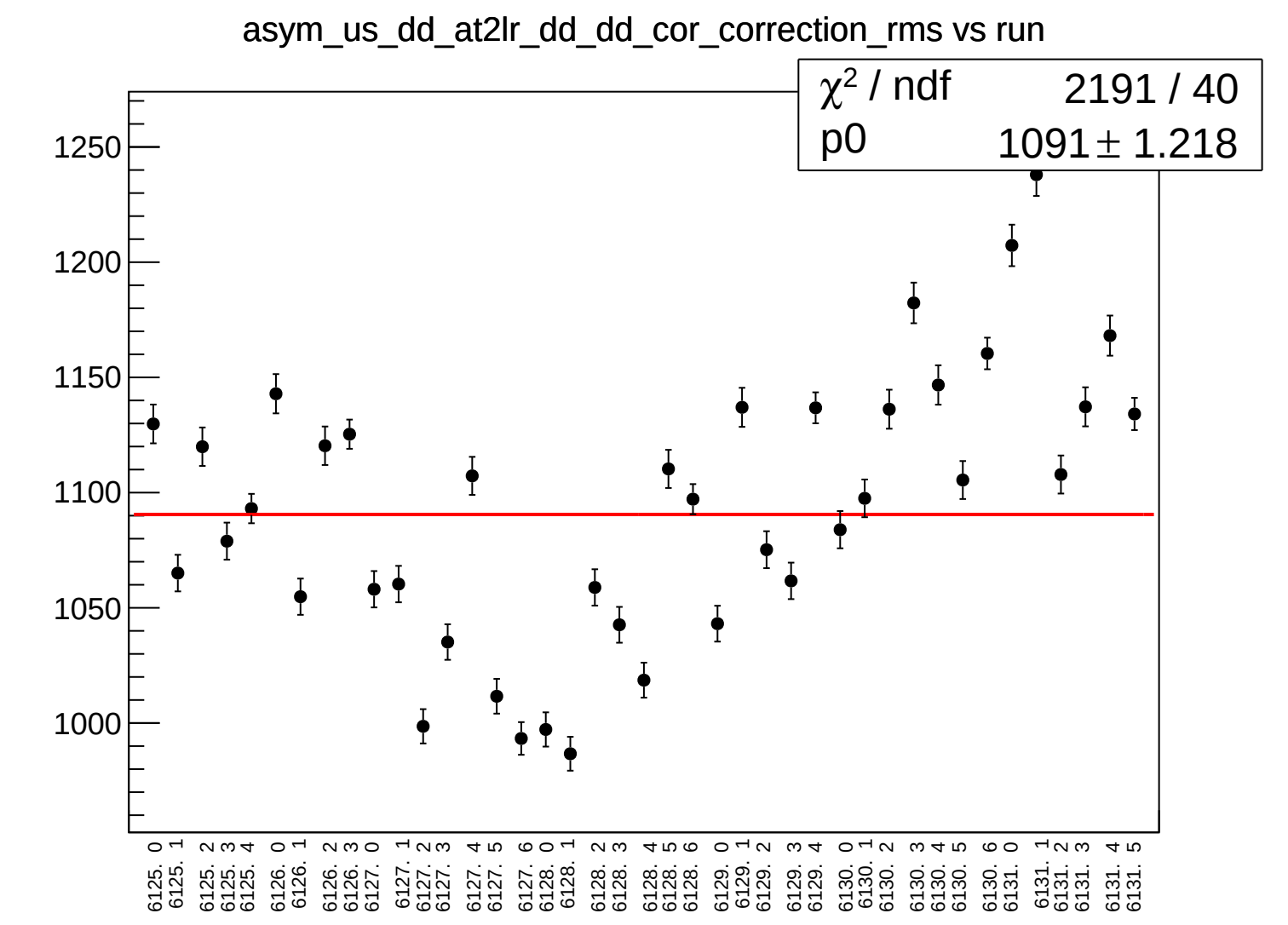

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 50.83 / 40
p0 −4182 ± 2214
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 490.7
Std Dev 0
3
2
1
0
−1
−2
−3

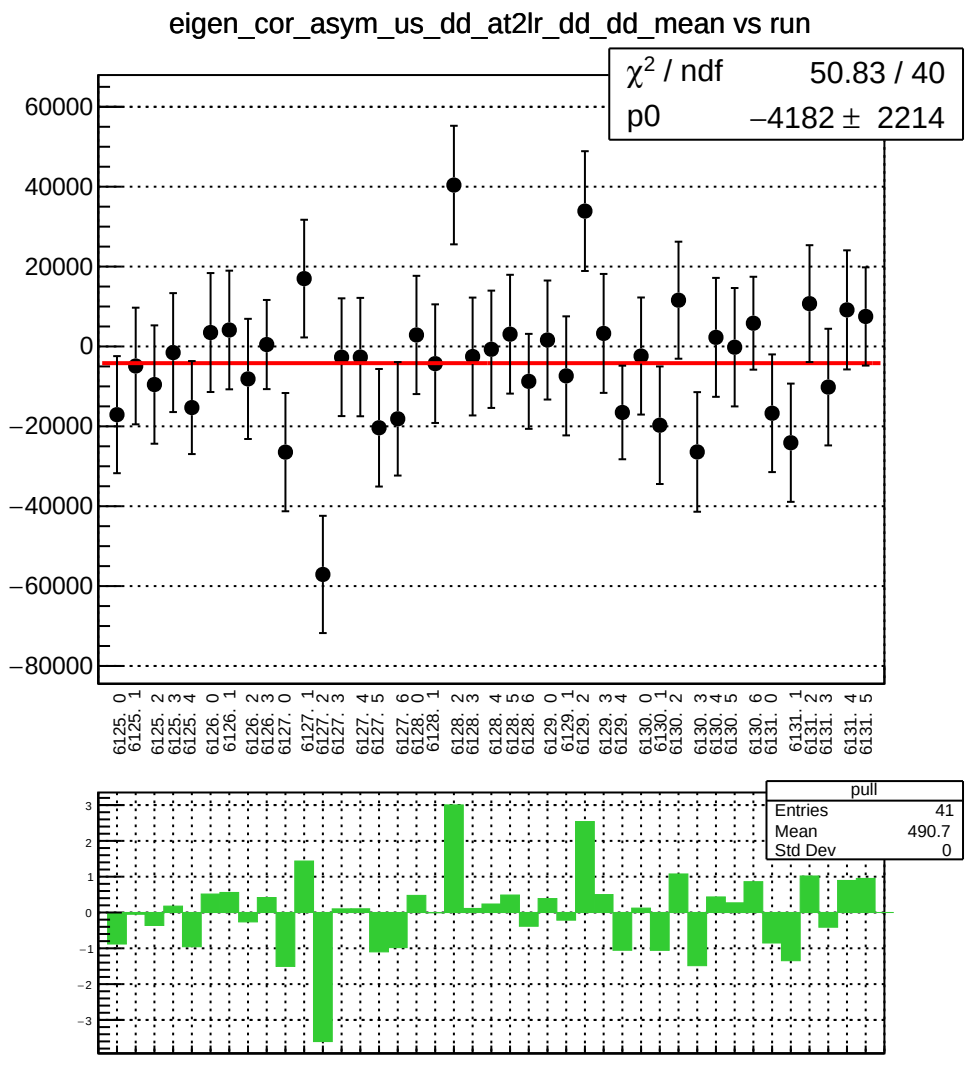

pull1D
Entries 41
Mean 0.004325
Std Dev 1.113
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 39.71 / 40
p0 1404 ± 1.566
1440
1430
1420
1410
1400
1390
1380
1370
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 29.63 / 40
p0 916.7 ± 1722
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 544.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.002613
Std Dev 0.8502
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 2191 / 40
p0 1091 ± 1.218
1250
1200
1150
1100
1050
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 50.83 / 40
p0 −4182 ± 2214
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 490.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.004325
Std Dev 1.113
8
7
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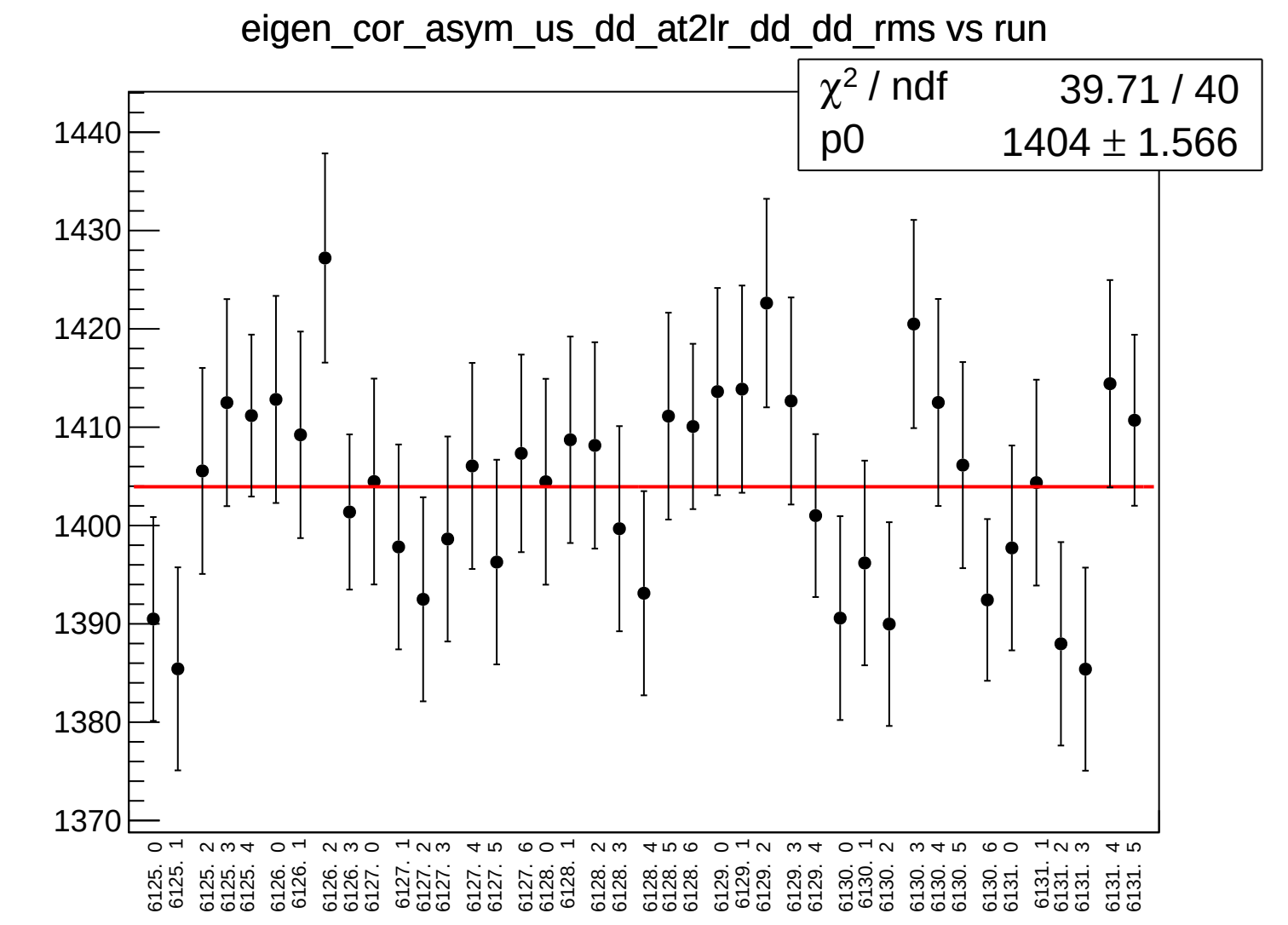
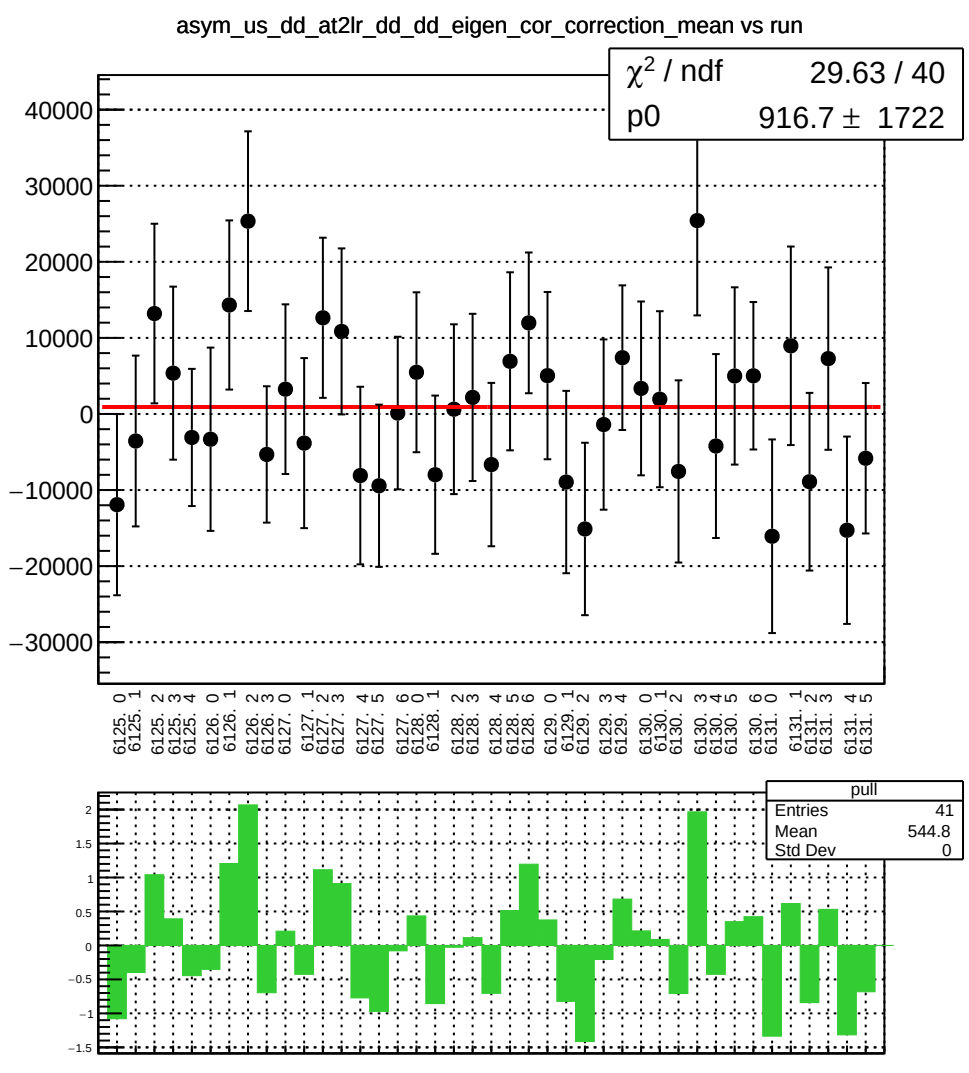
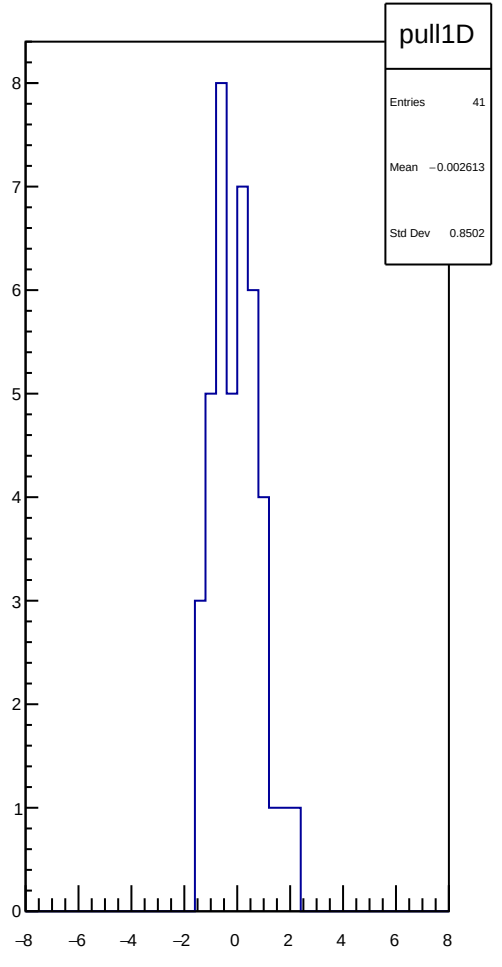
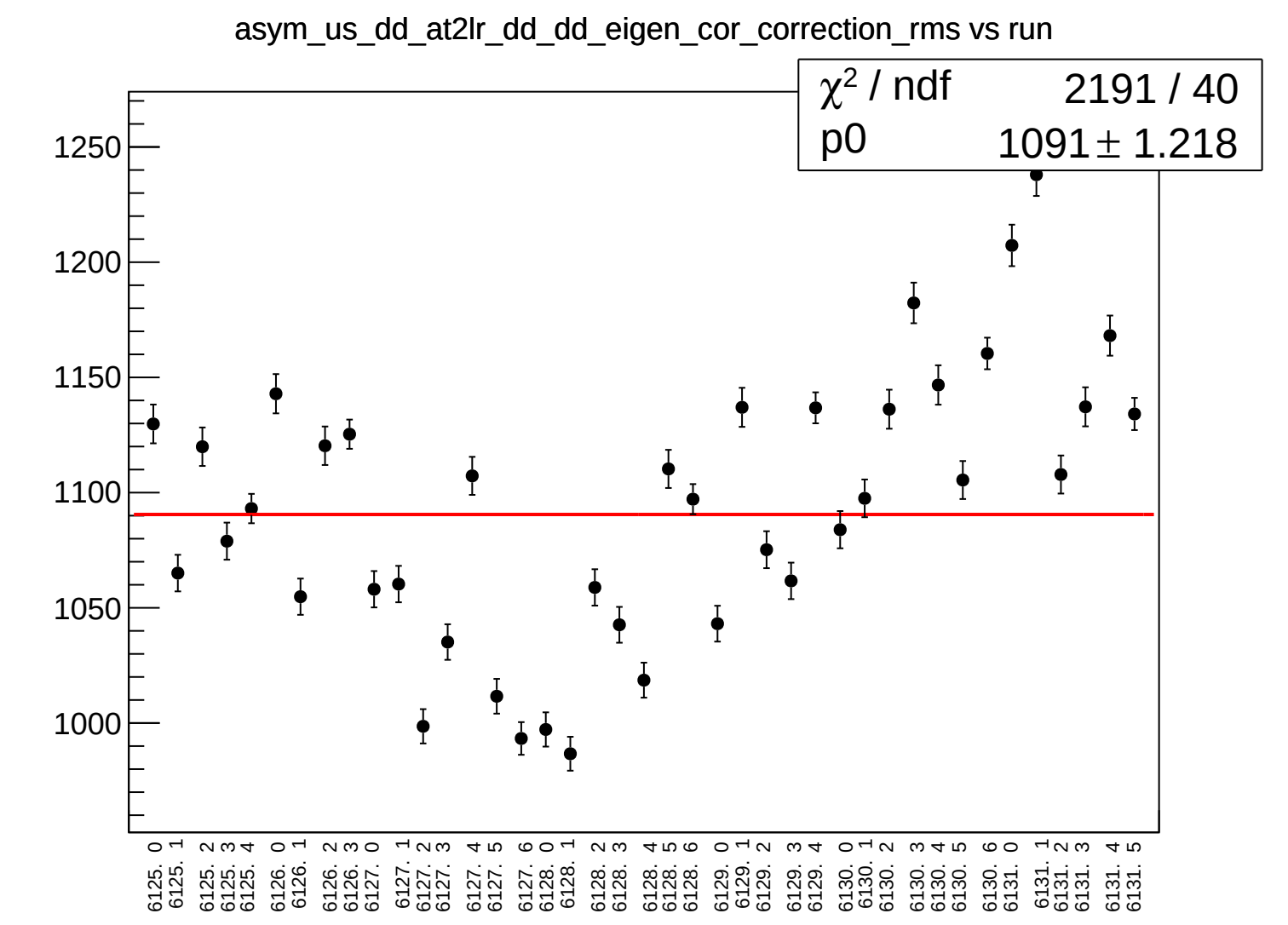
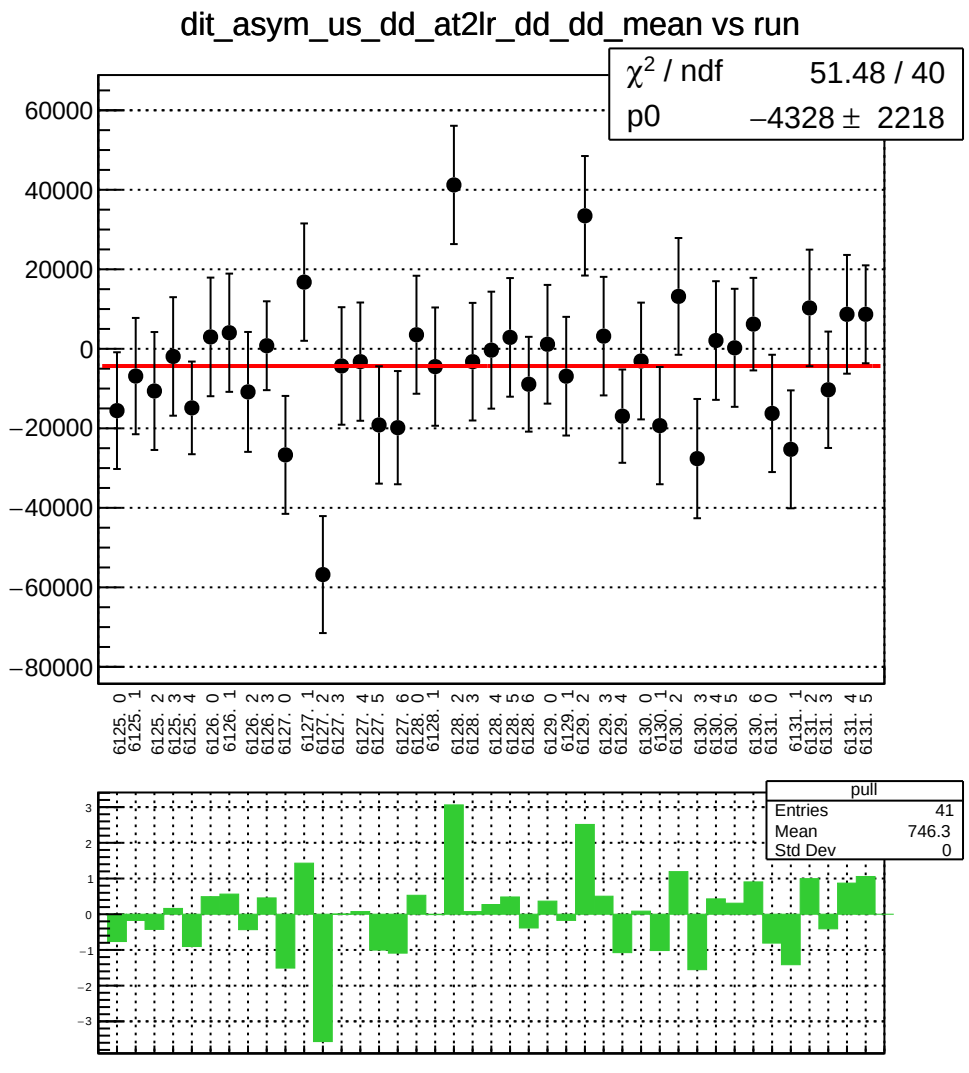
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

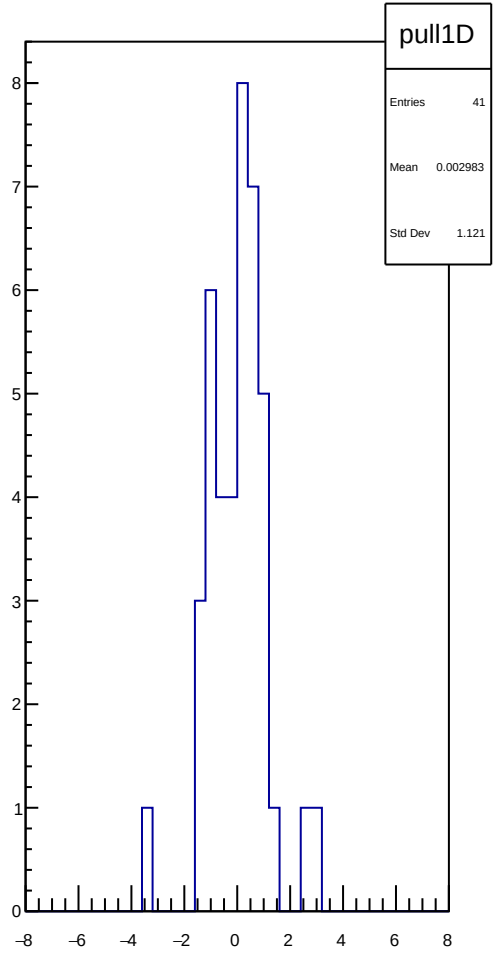

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 39.71 / 40
p0 1404 ± 1.566
1440
1430
1420
1410
1400
1390
1380
1370
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

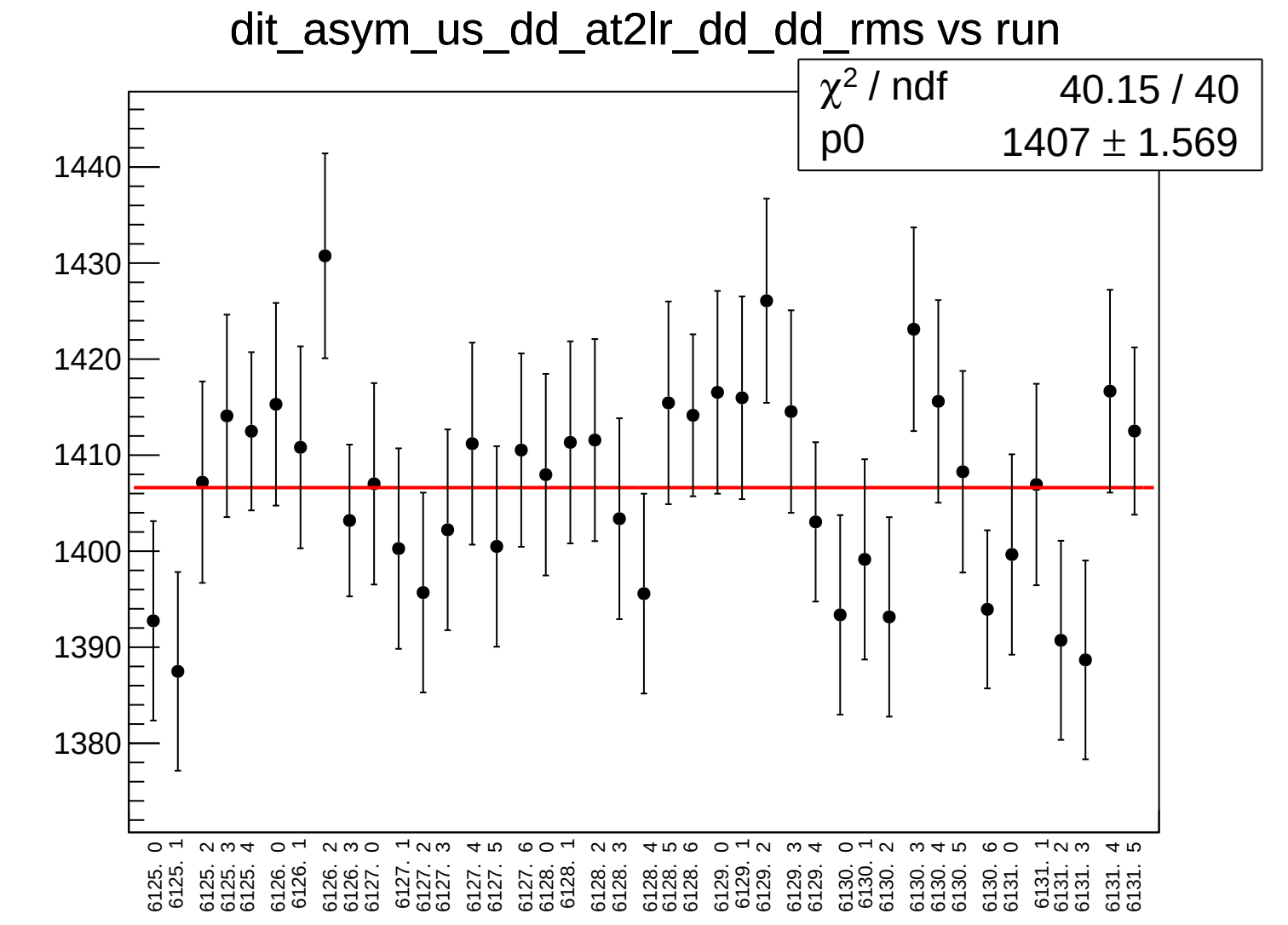

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 29.63 / 40
p0 916.7 ± 1722
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 544.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

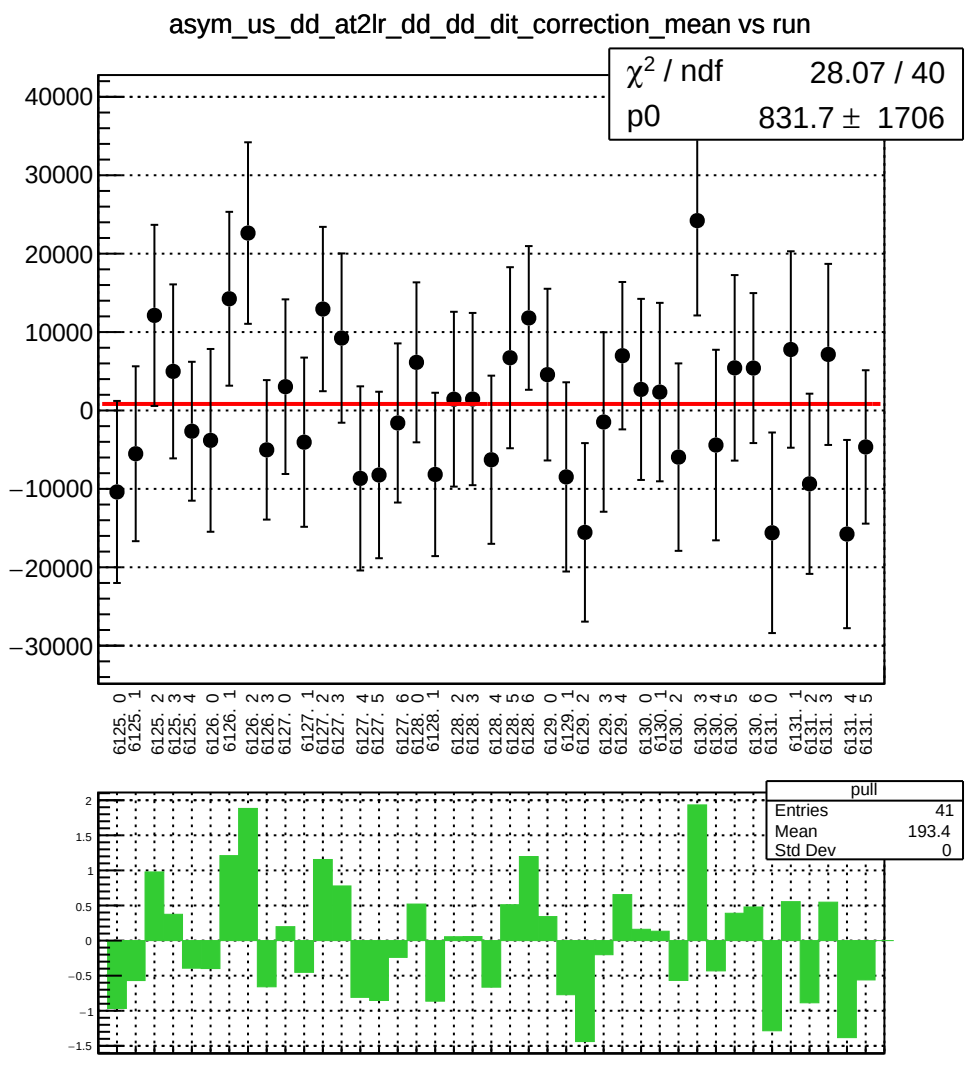

pull1D
Entries 41
Mean −0.002613
Std Dev 0.8502
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

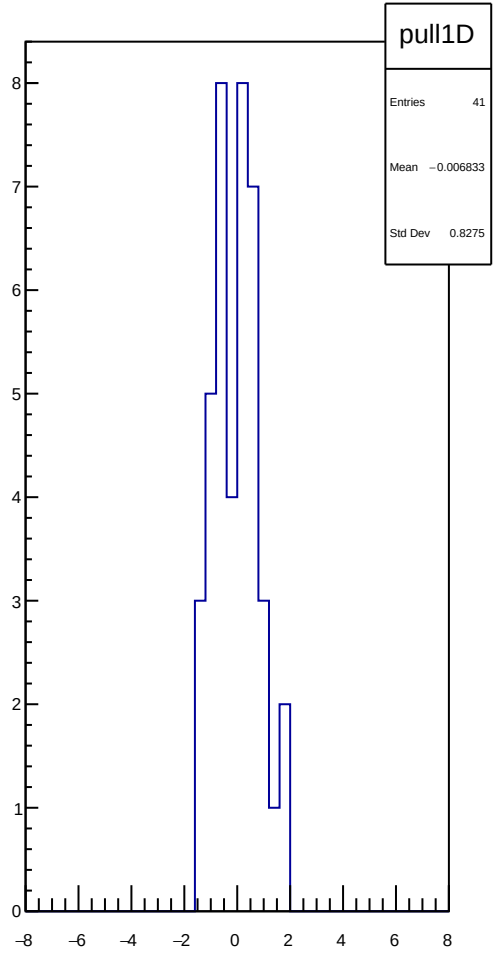

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2191 / 40
p0 1091 ± 1.218
1250
1200
1150
1100
1050
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

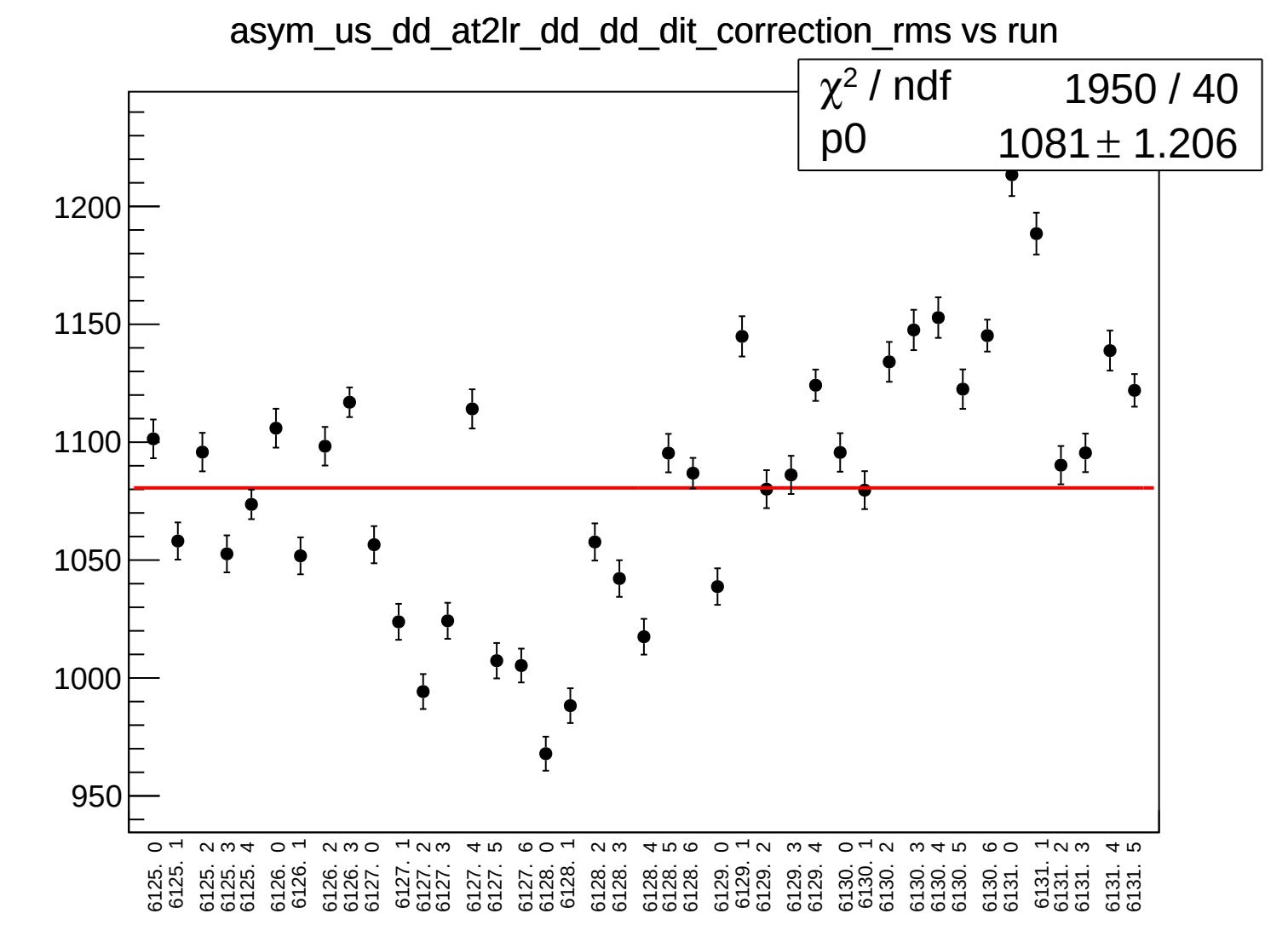

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 51.48 / 40
p0 −4328 ± 2218
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 746.3
Std Dev 0
3
2
1
0
−1
−2
−3

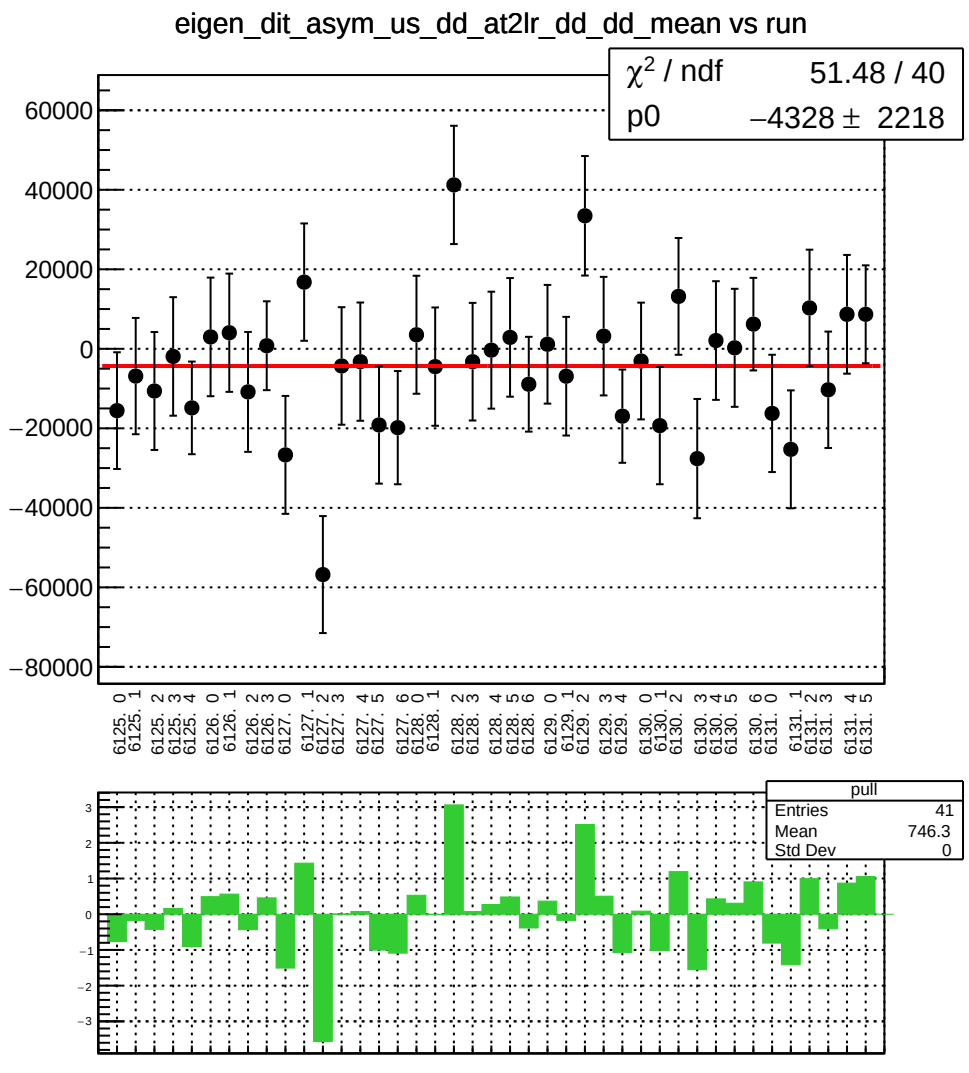

pull1D
Entries 41
Mean 0.002983
Std Dev 1.121
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

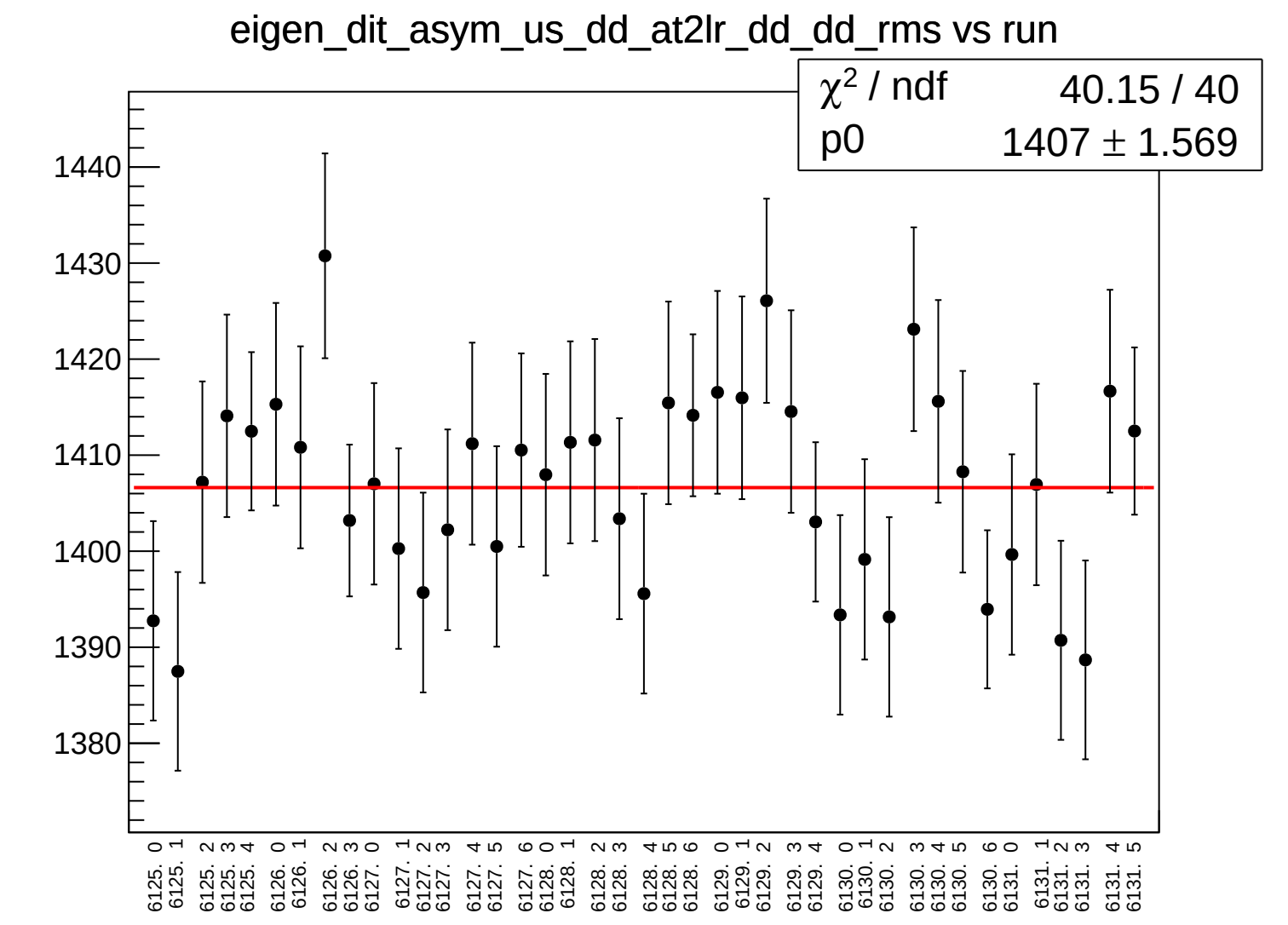

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 40.15 / 40
p0 1407 ± 1.569
1440
1430
1420
1410
1400
1390
1380
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

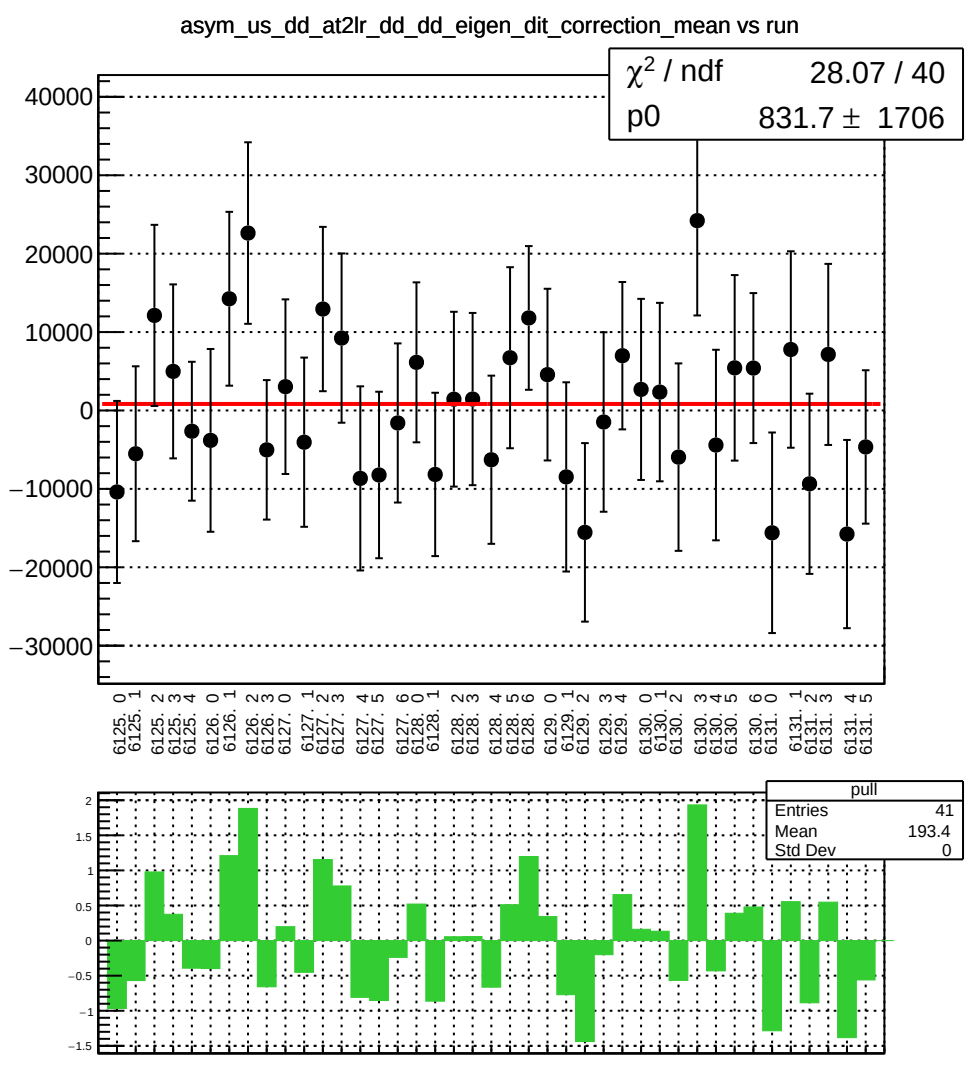

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 28.07 / 40
p0 831.7 ± 1706
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 193.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.006833
Std Dev 0.8275
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1950 / 40
p0 1081 ± 1.206
1200
1150
1100
1050
1000
950
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 51.48 / 40
p0 −4328 ± 2218
60000
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 746.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.002983
Std Dev 1.121
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 40.15 / 40
p0 1407 ± 1.569
1440
1430
1420
1410
1400
1390
1380
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 28.07 / 40
p0 831.7 ± 1706
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
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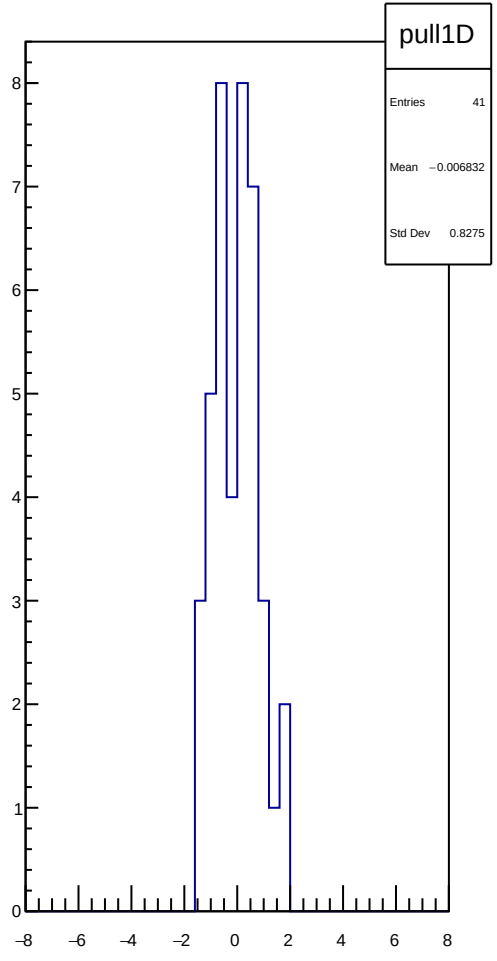
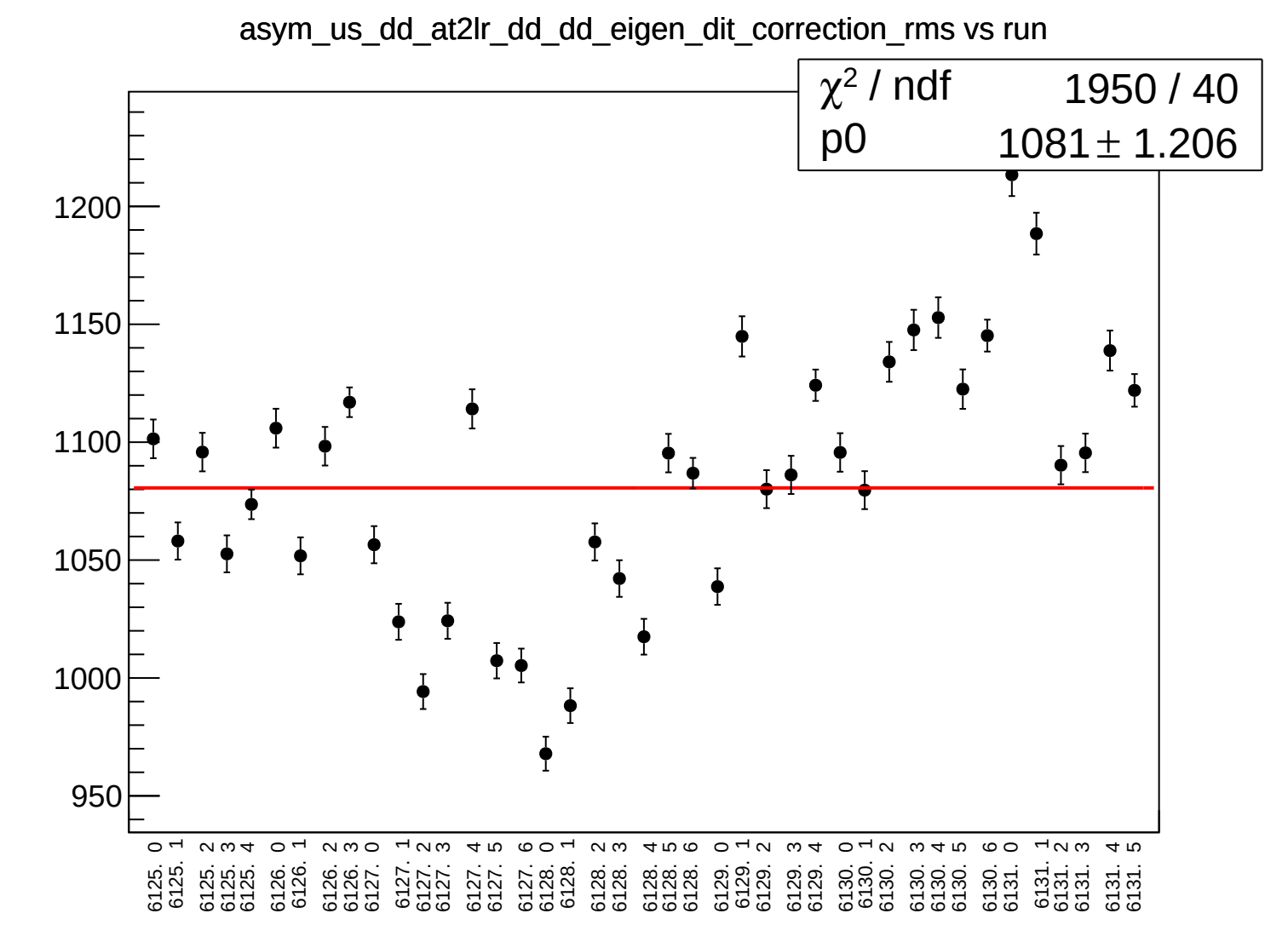
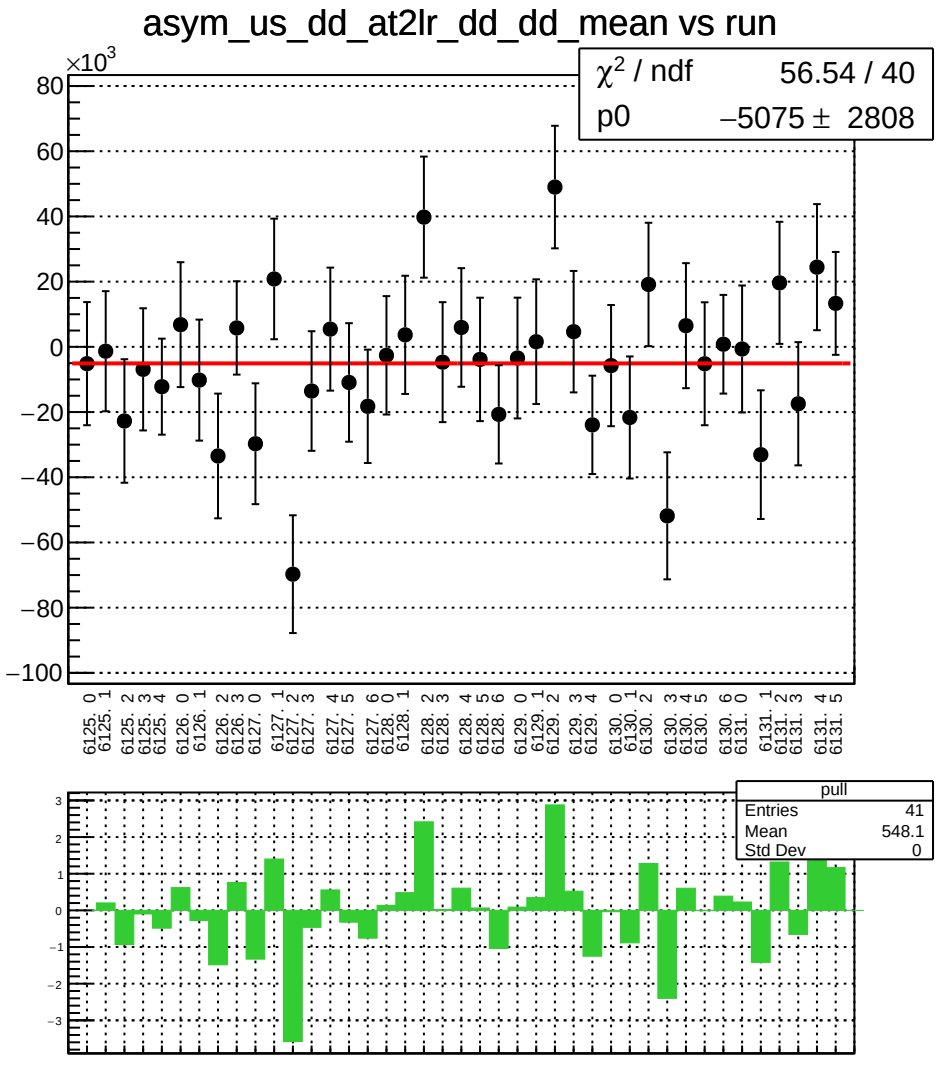
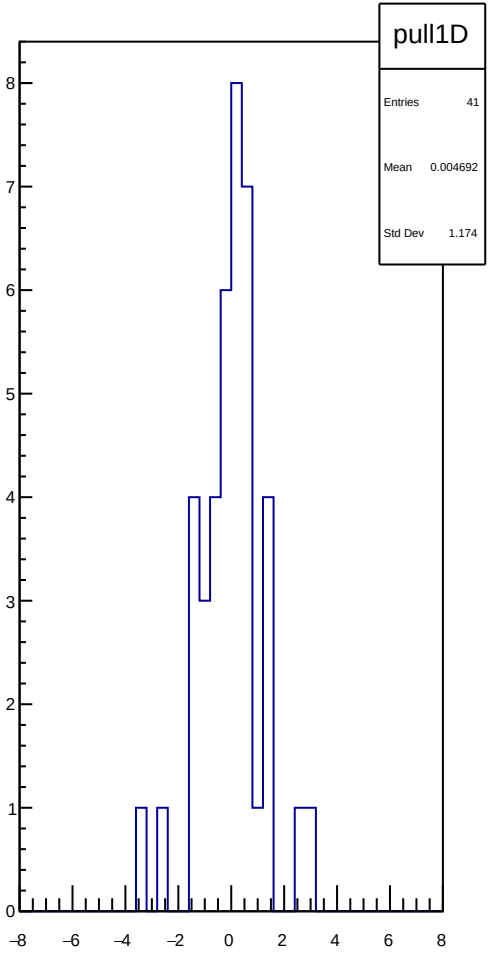
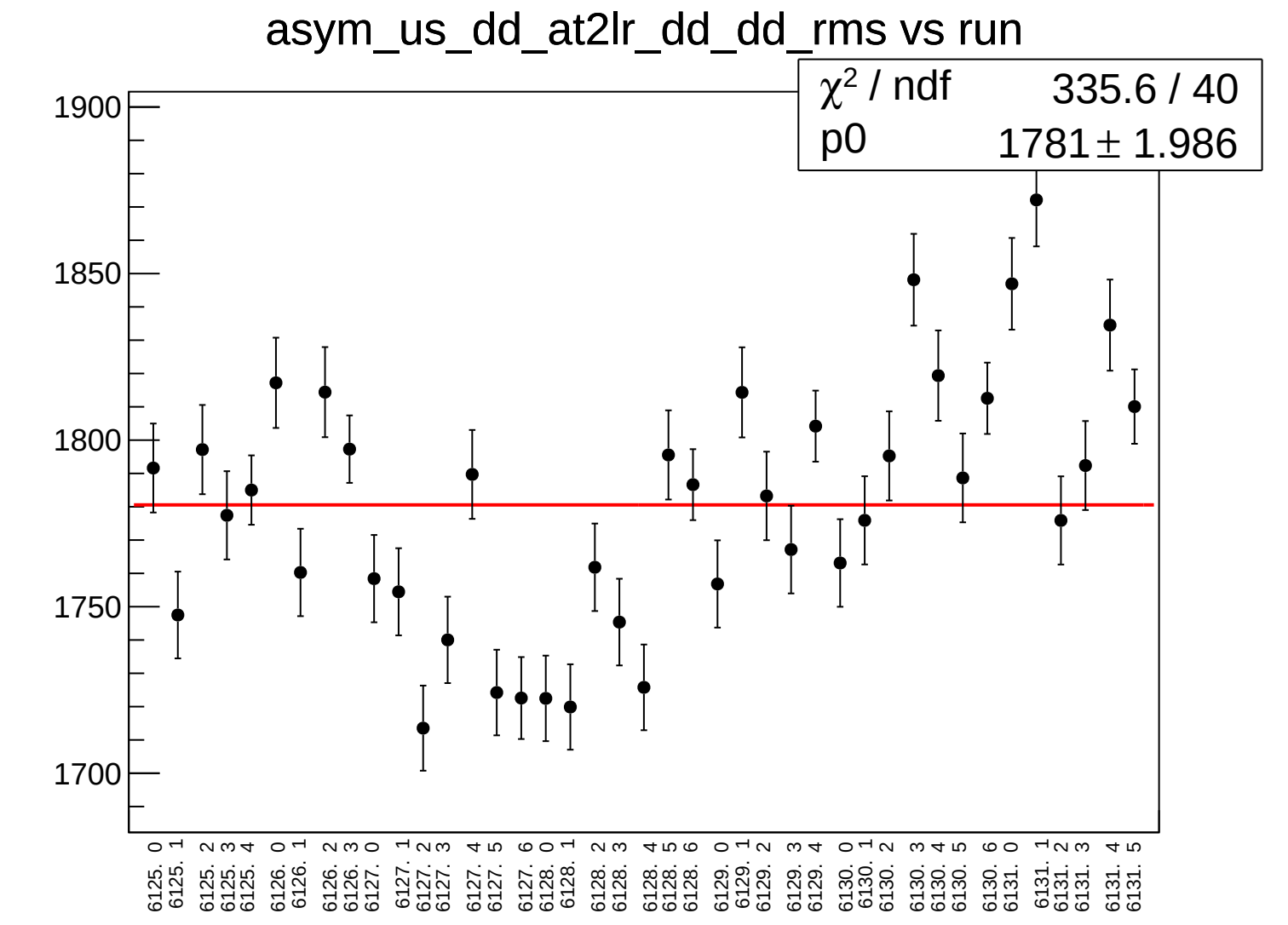
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 193.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

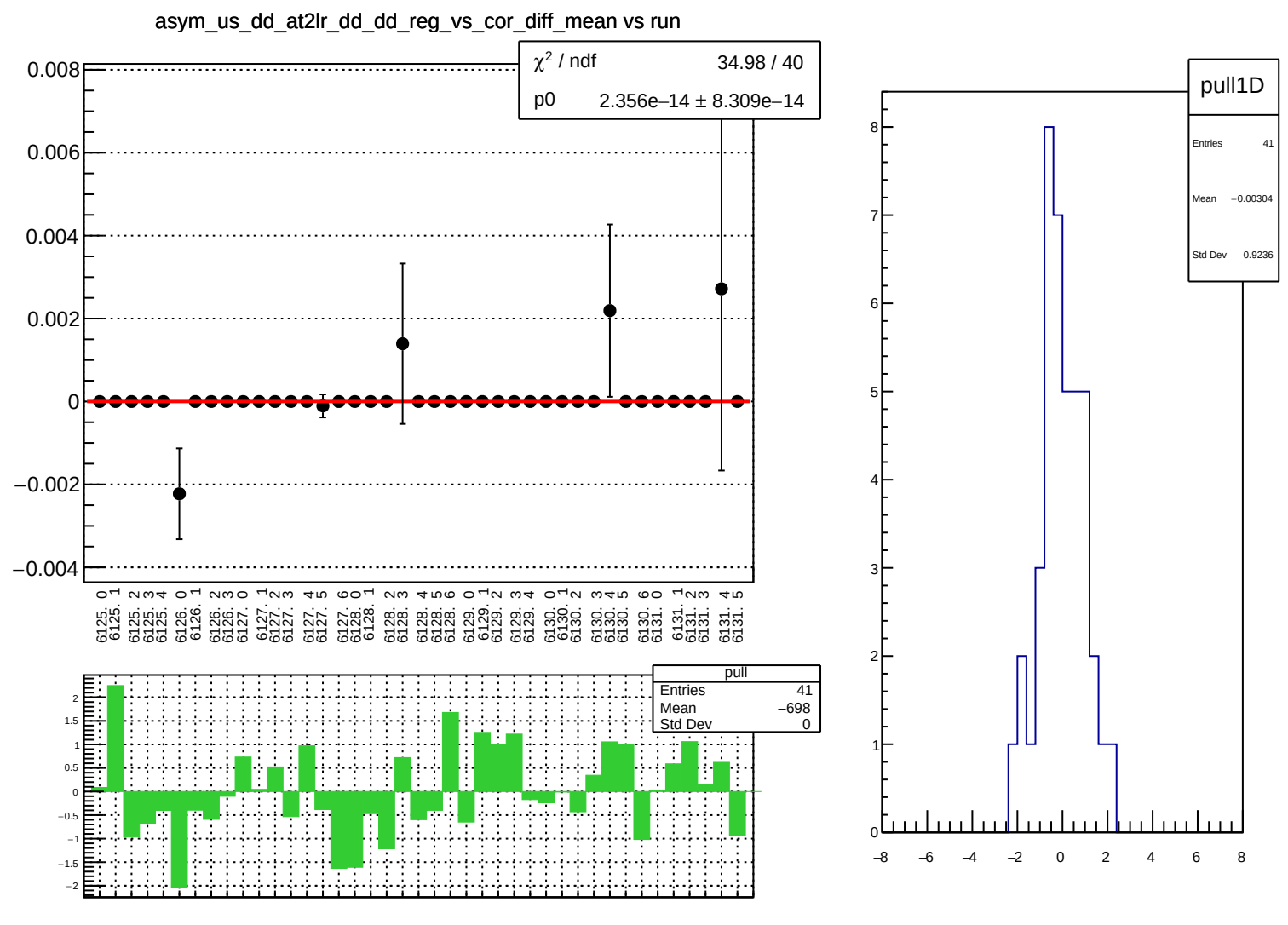

pull1D
Entries 41
Mean −0.006832
Std Dev 0.8275
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

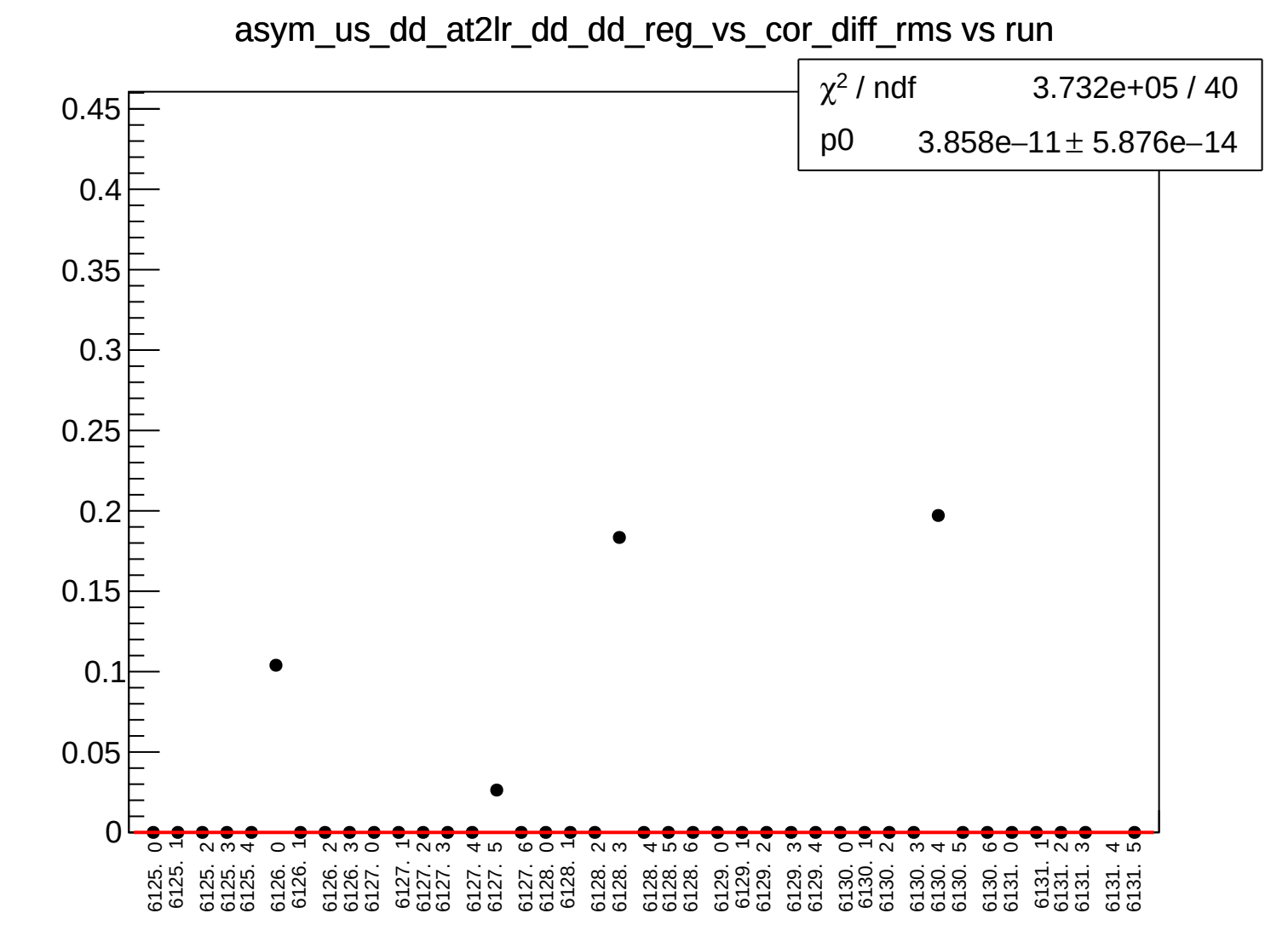

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1950 / 40
p0 1081 ± 1.206
1200
1150
1100
1050
1000
950
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

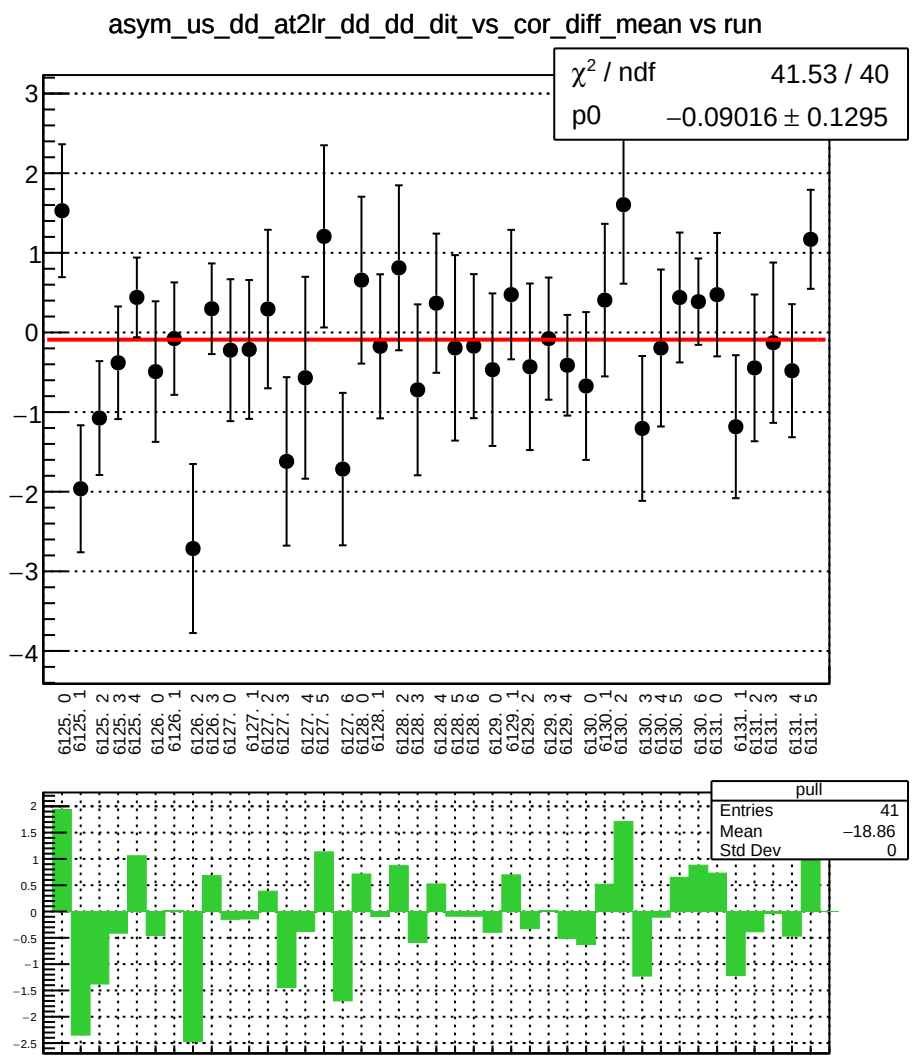

asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ² / ndf 56.54 / 40
p0 −5075 ± 2808
pull
Entries 41
Mean 548.1
Std Dev 0

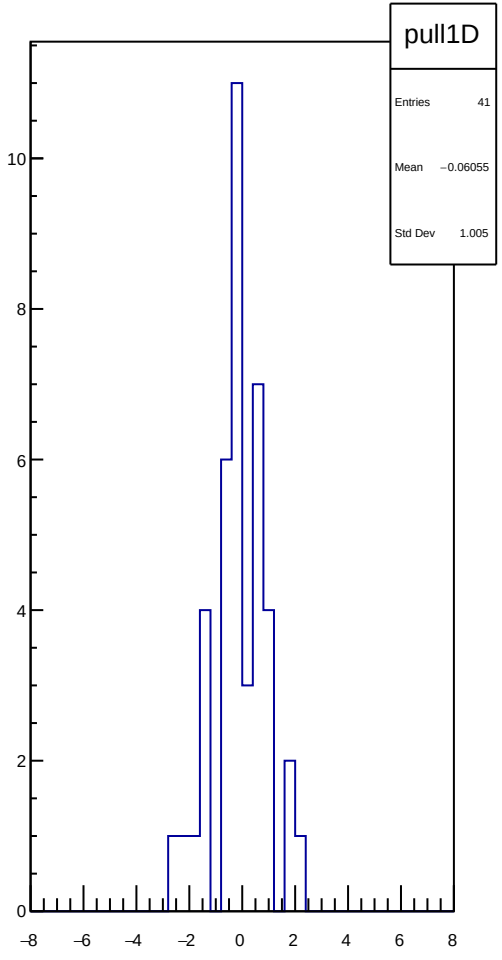

pull1D
Entries 41
Mean 0.004692
Std Dev 1.174

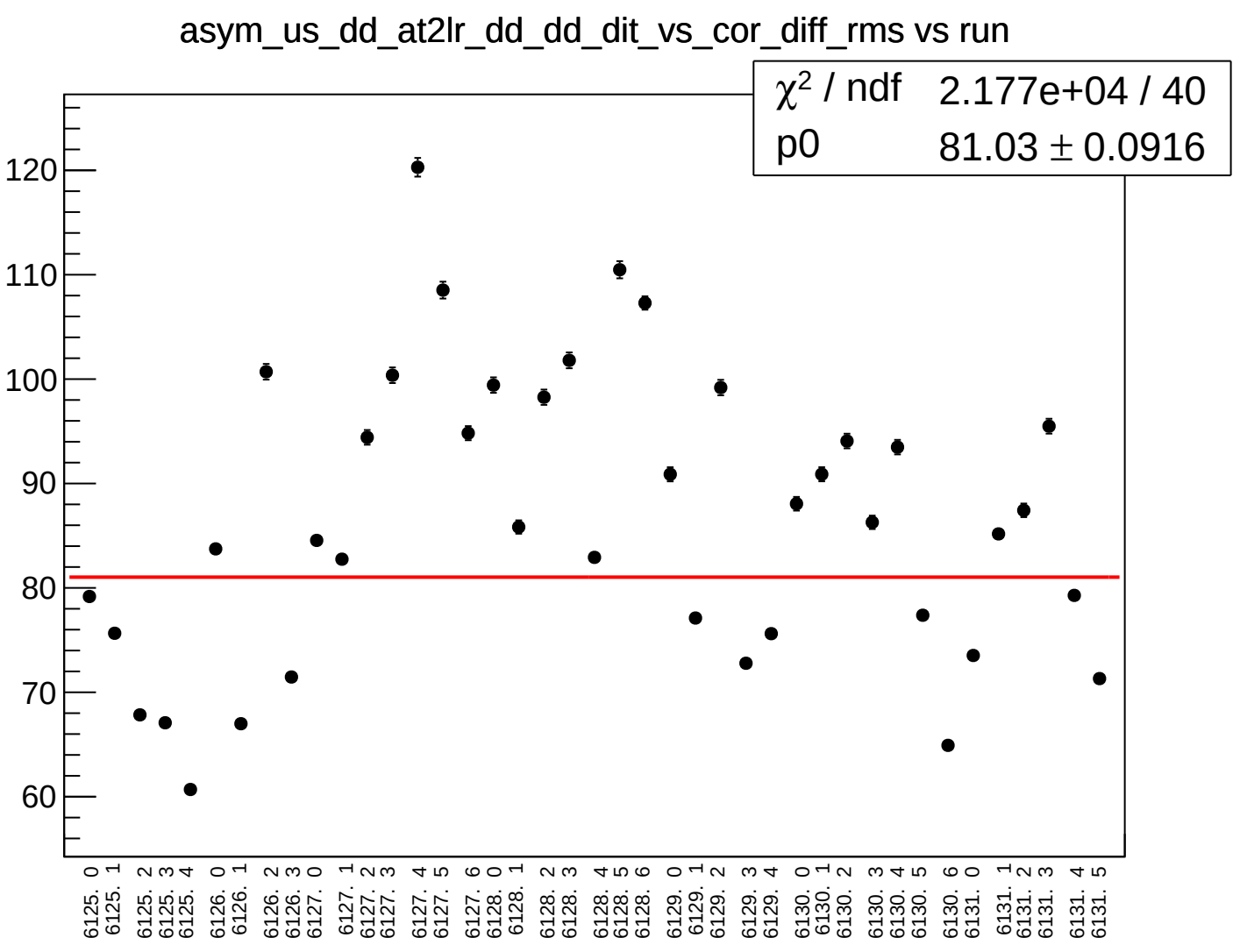

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 335.6 / 40
p0 1781 ± 1.986
1900
1850
1800
1750
1700
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

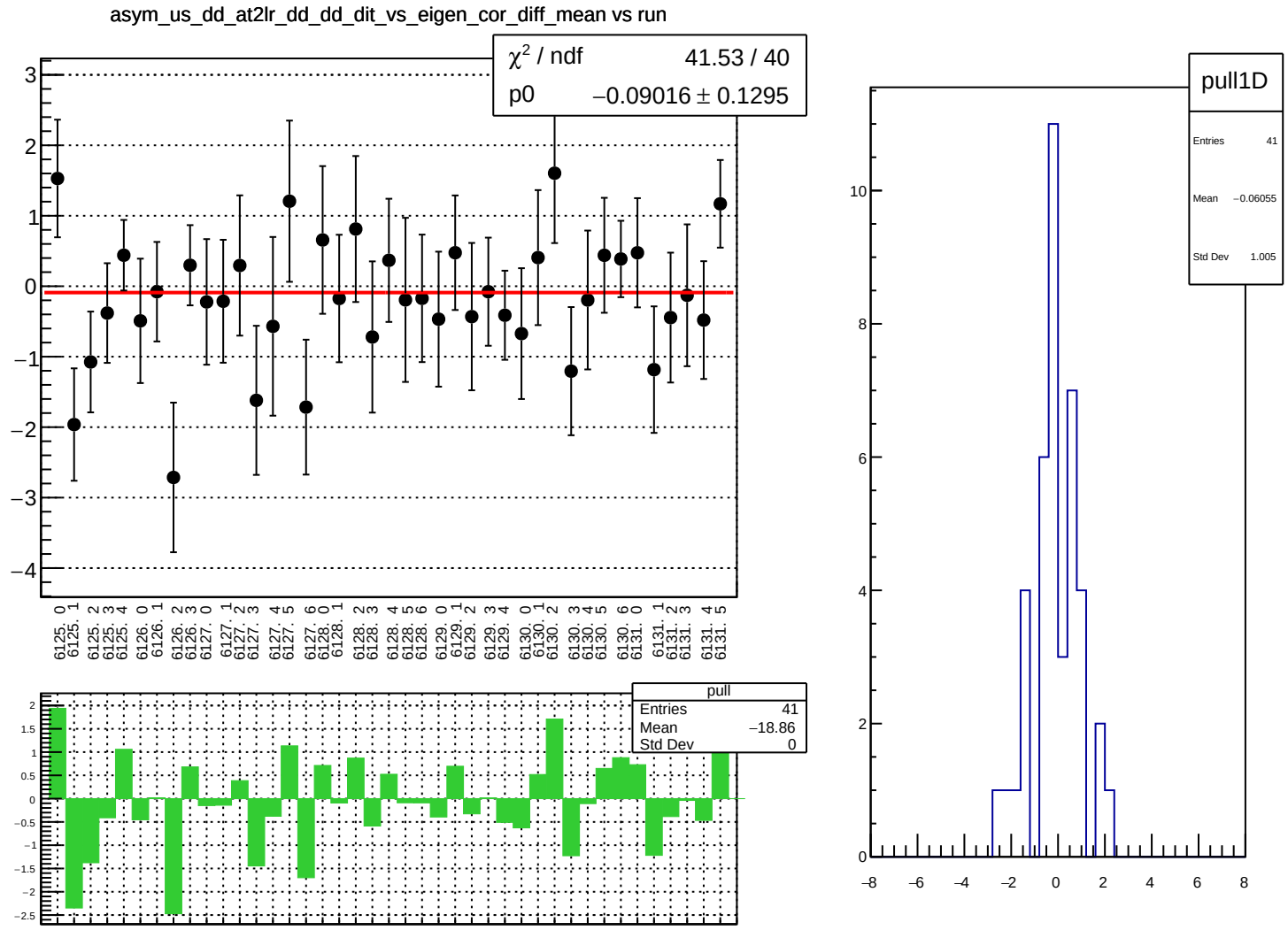

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 34.98 / 40
p0 2.356e−14 ± 8.309e−14
0.008
0.006
0.004
0.002
0
−0.002
−0.004
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −698
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.00304
Std Dev 0.9236
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

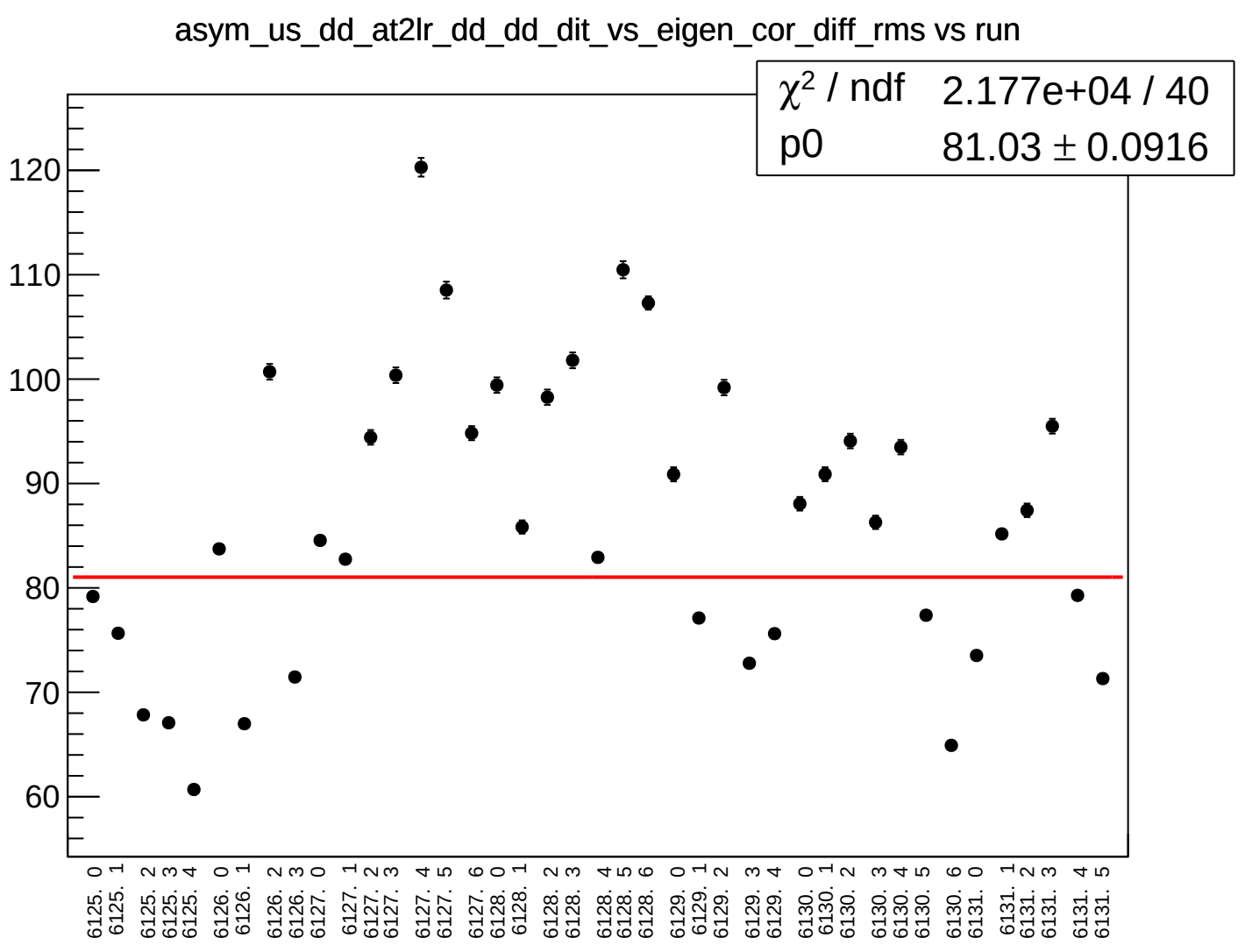

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.732e+05 / 40
p0 3.858e−11 ± 5.876e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

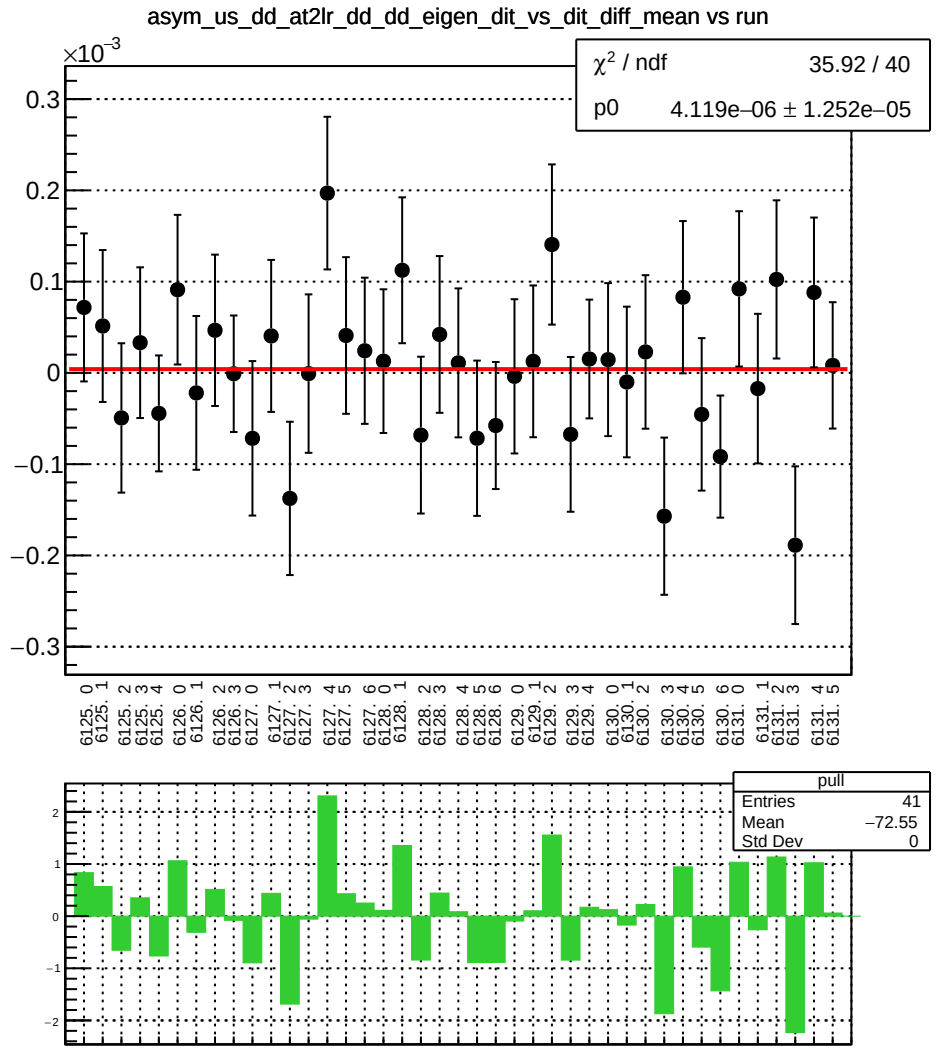

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 41.53 / 40
p0 −0.09016 ± 0.1295
pull
Entries 41
Mean −18.86
Std Dev 0

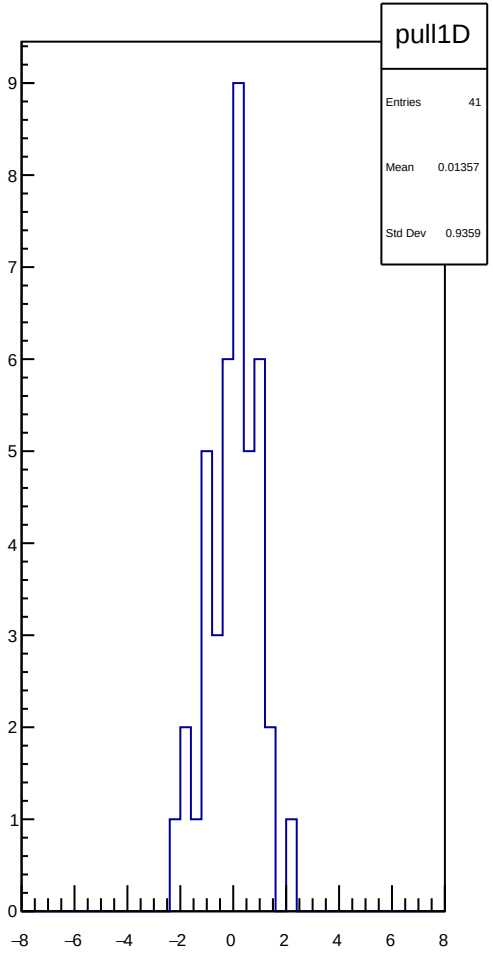

pull1D
Entries 41
Mean −0.06055
Std Dev 1.005

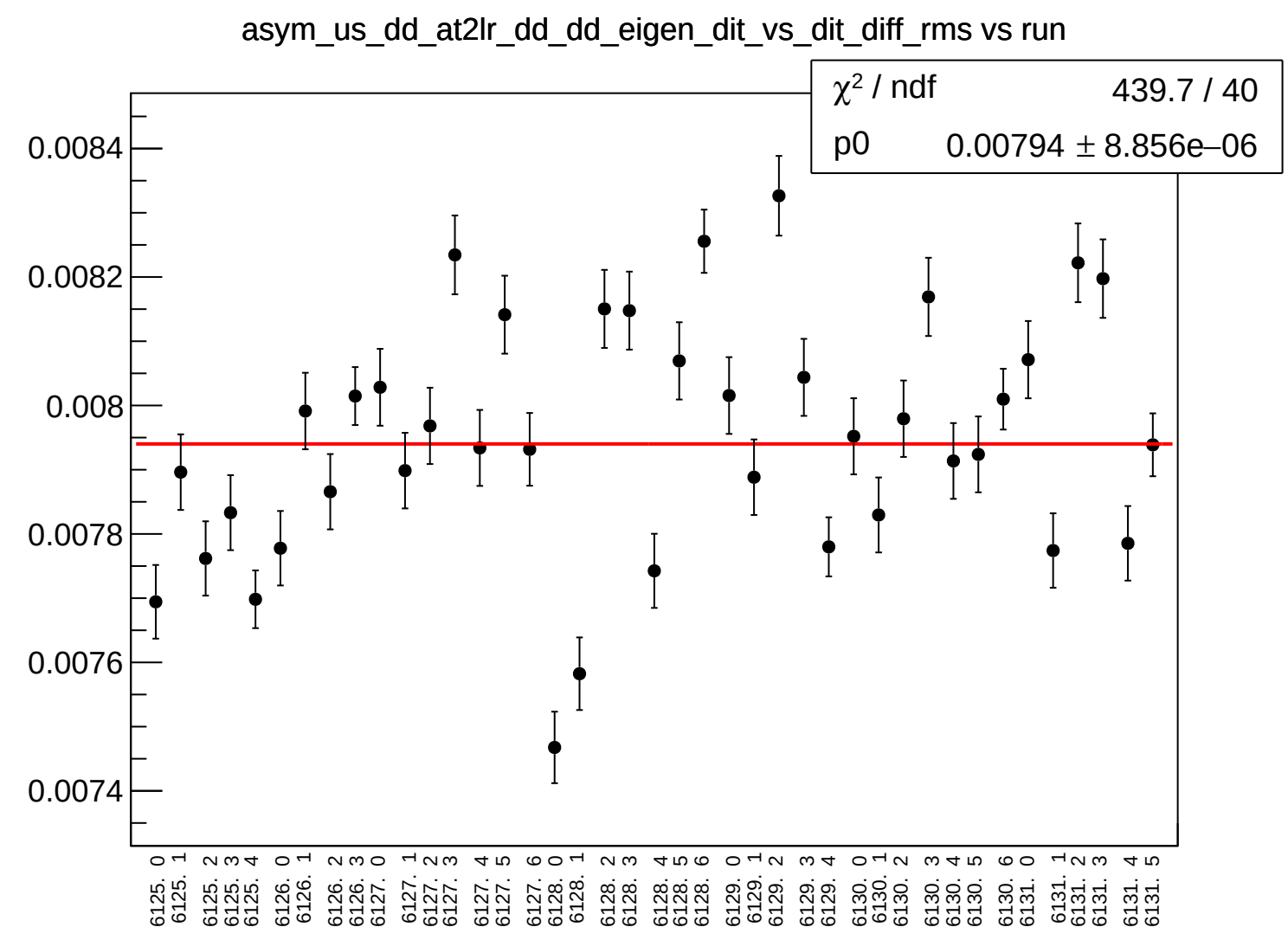

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.177e+04 / 40
p0 81.03 ± 0.0916
120
110
100
90
80
70
60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

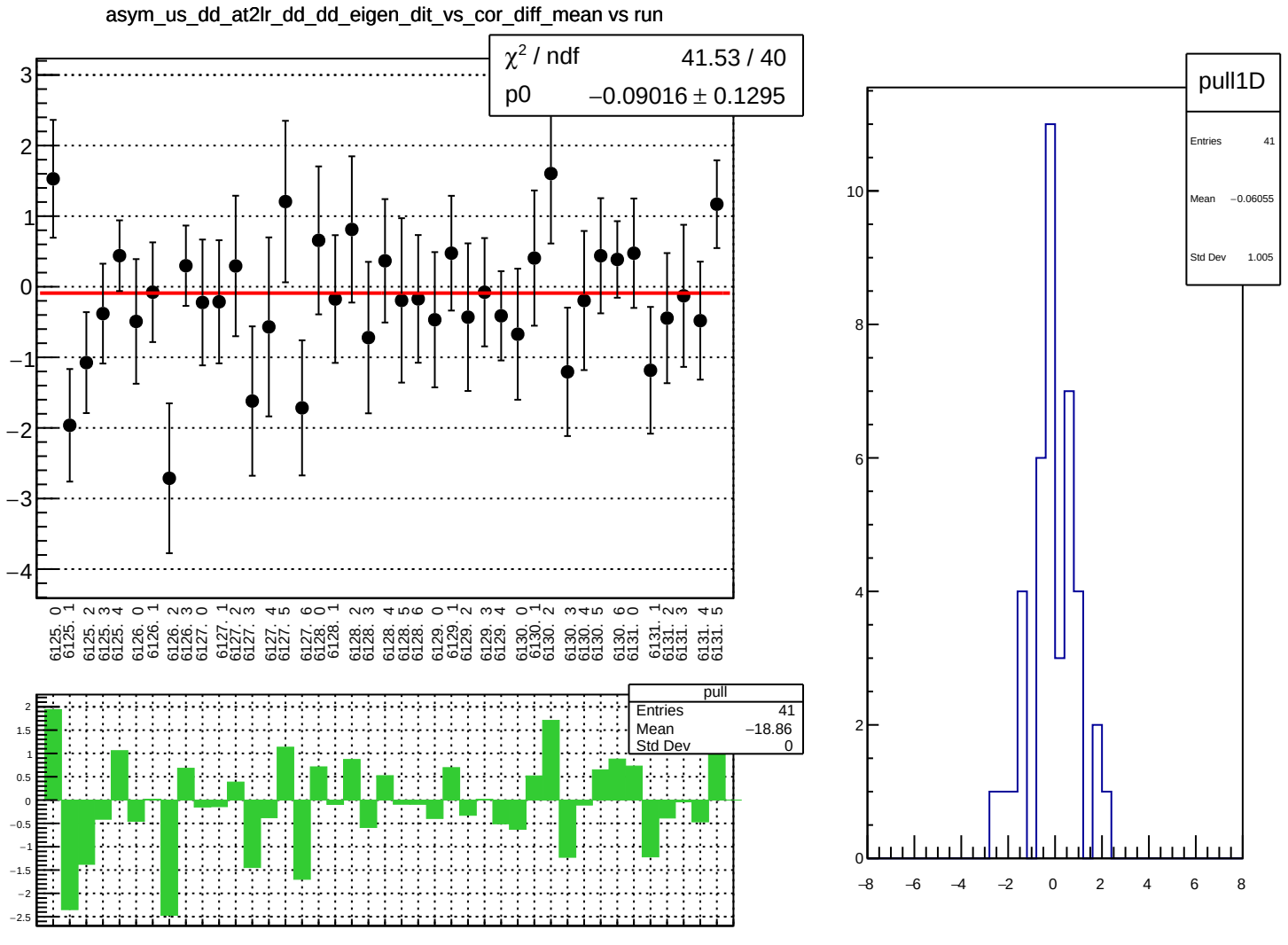

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.53 / 40
p0 −0.09016 ± 0.1295
pull
Entries 41
Mean −18.86
Std Dev 0
pull1D
Entries 41
Mean −0.06055
Std Dev 1.005

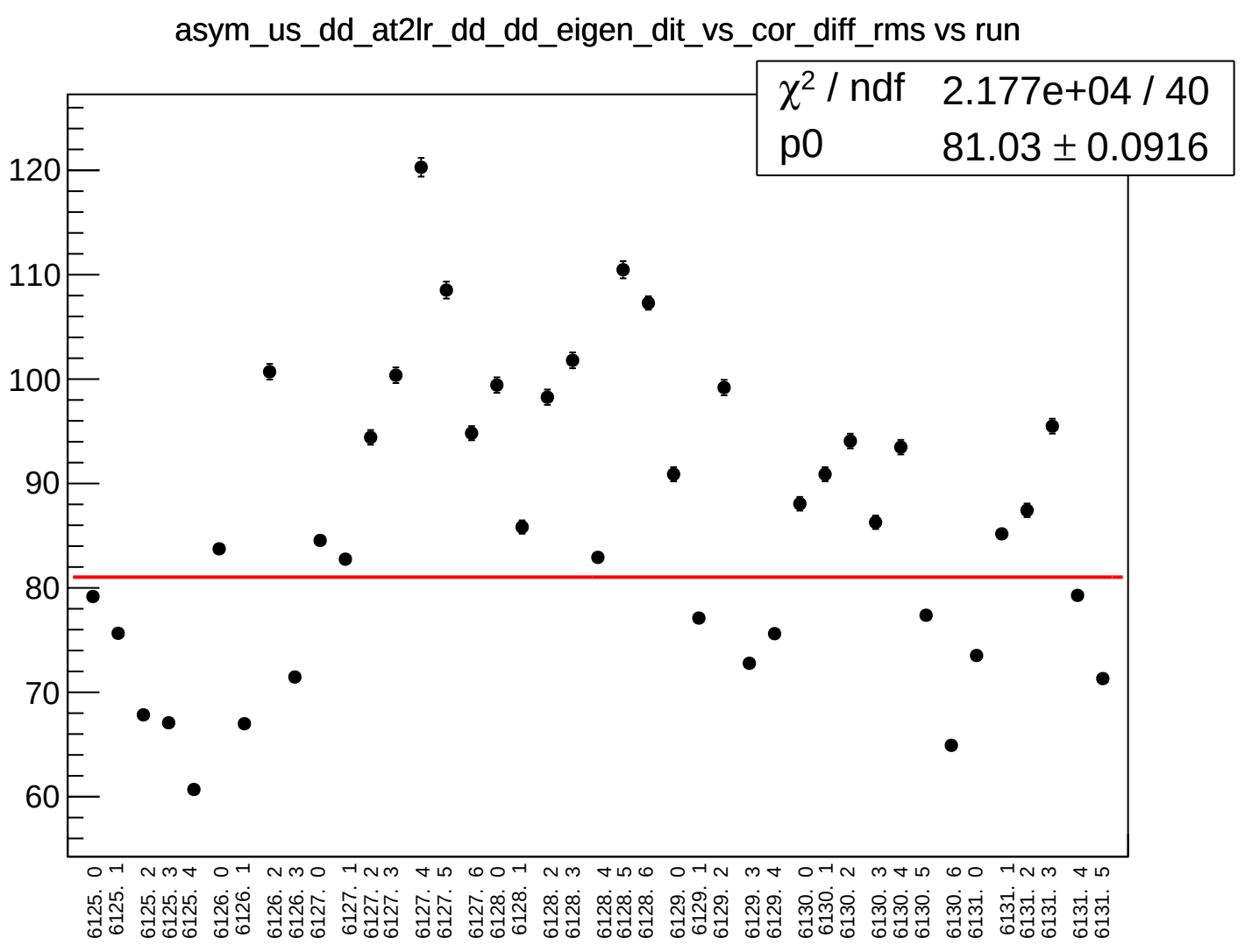

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.177e+04 / 40
p0 81.03 ± 0.0916
120
110
100
90
80
70
60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

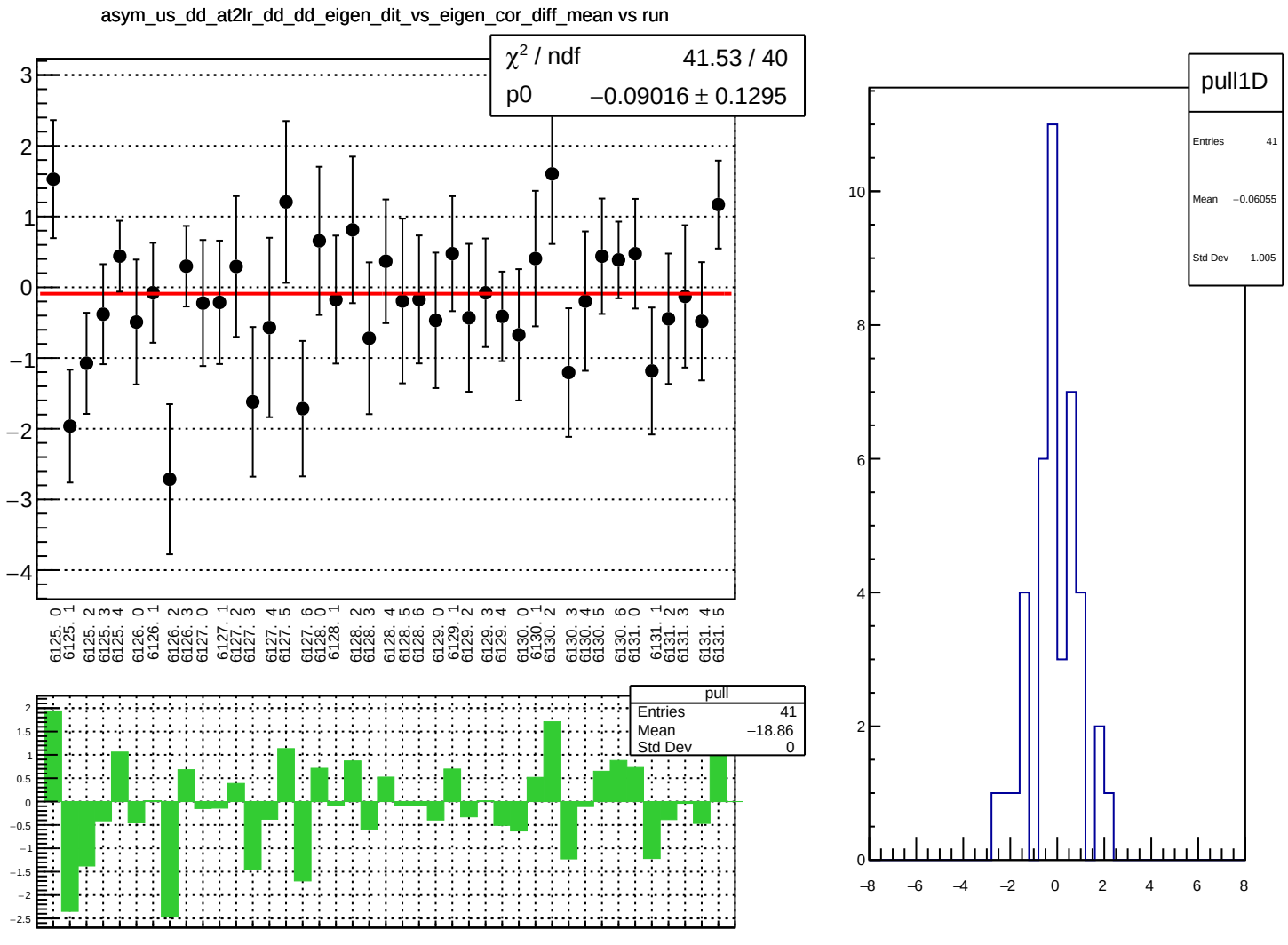

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 35.92 / 40
p0 4.119e−06 ± 1.252e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −72.55
Std Dev 0
2
1
0
−1
−2

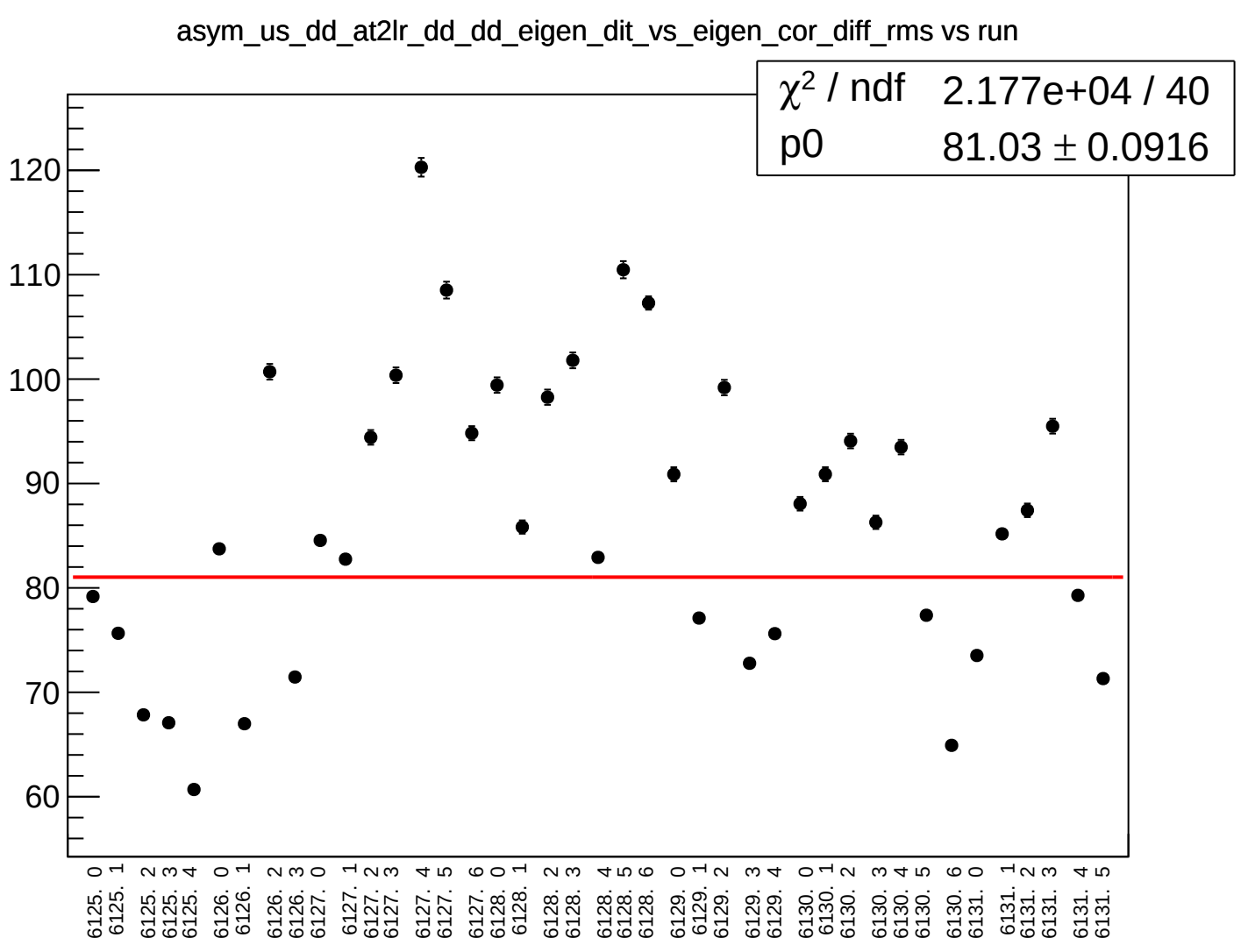

pull1D
Entries 41
Mean 0.01357
Std Dev 0.9359
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

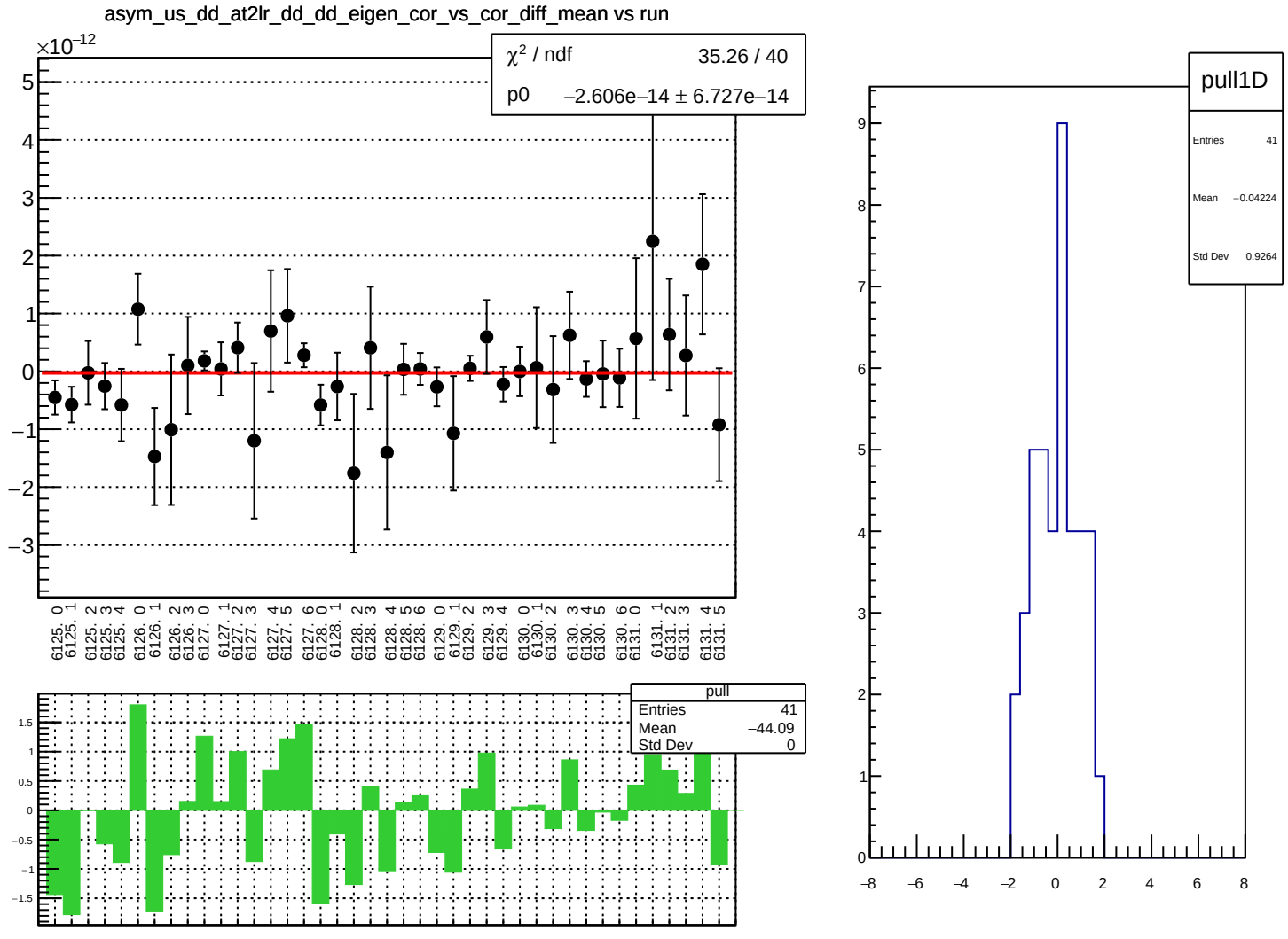

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 439.7 / 40
p0 0.00794 ± 8.856e−06
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

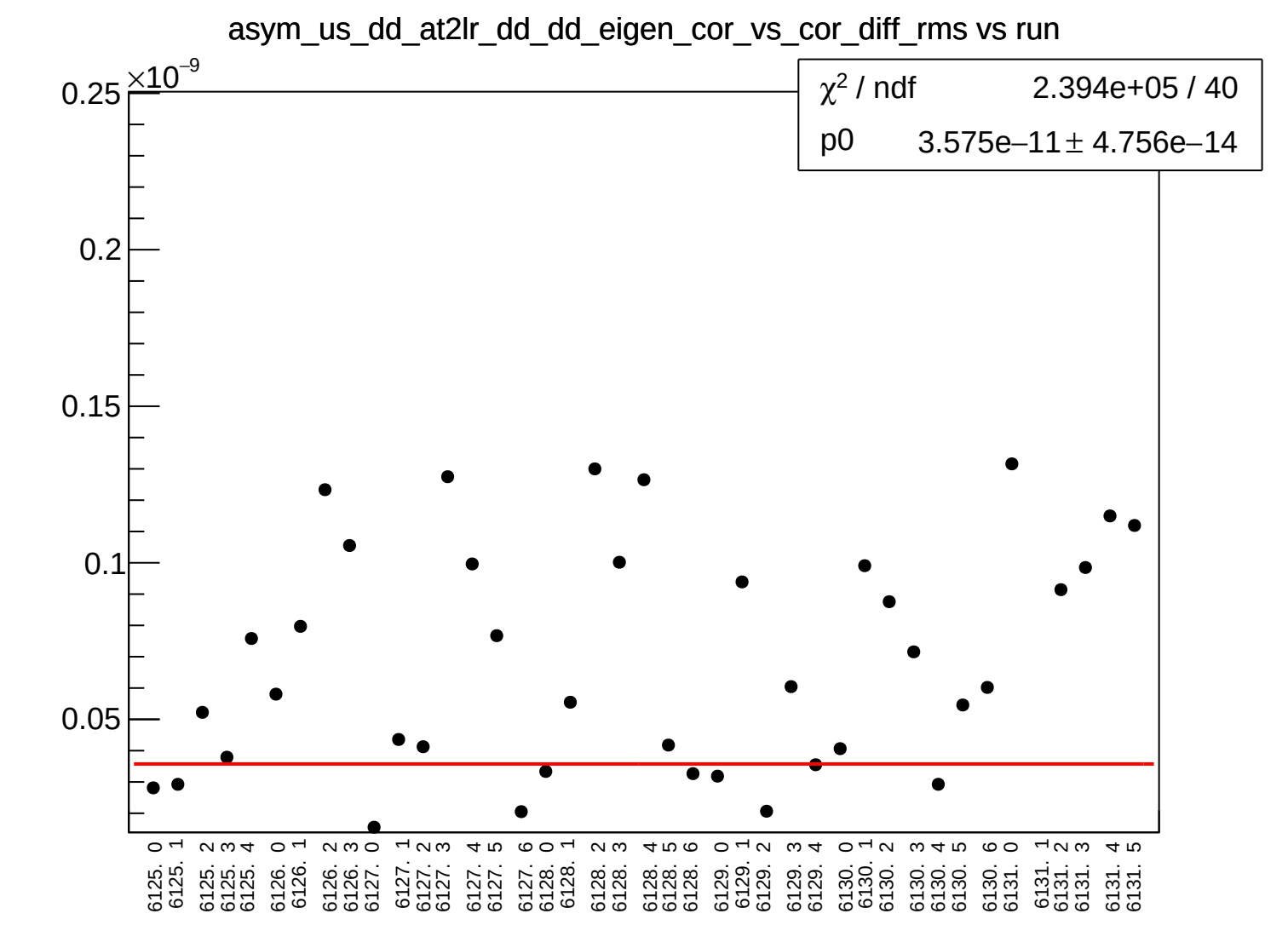

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 41.53 / 40
p0 −0.09016 ± 0.1295
pull
Entries 41
Mean −18.86
Std Dev 0
pull1D
Entries 41
Mean −0.06055
Std Dev 1.005

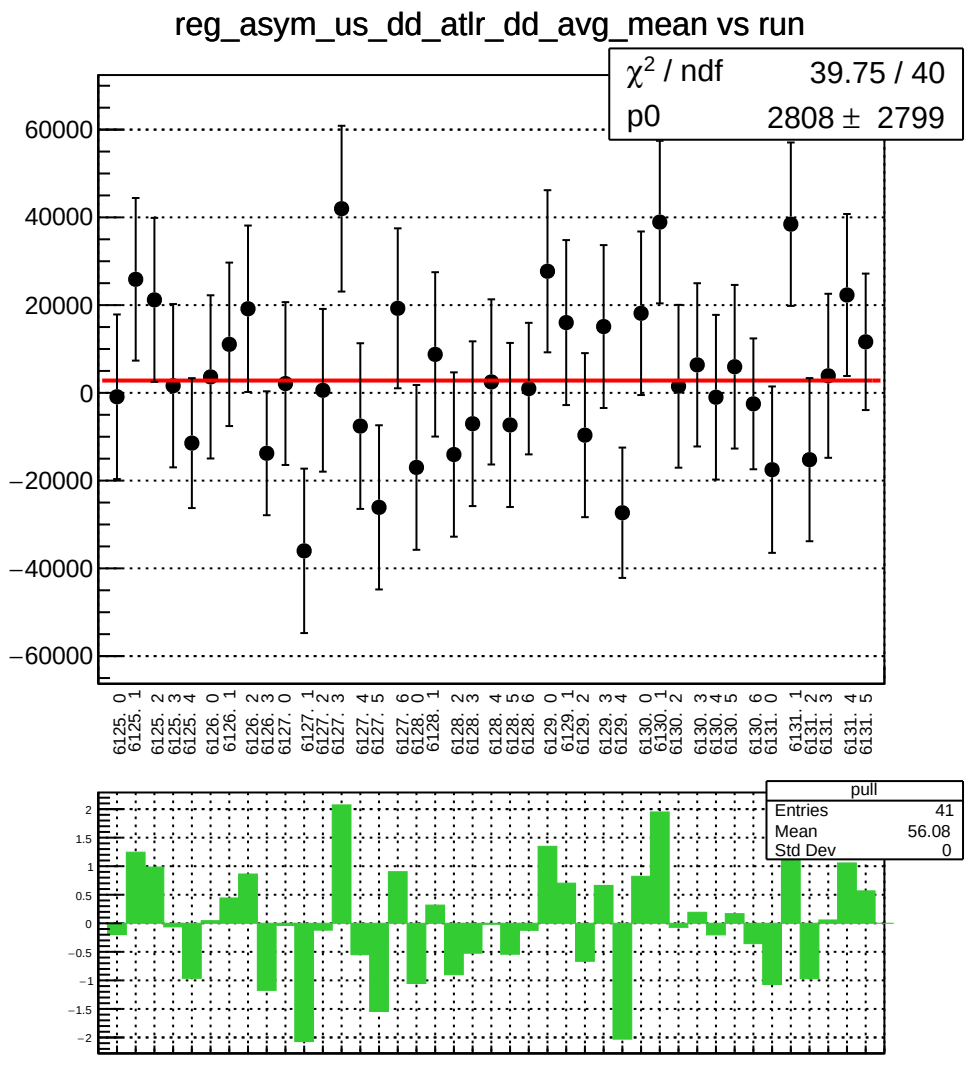

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.177e+04 / 40
p0 81.03 ± 0.0916
120
110
100
90
80
70
60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

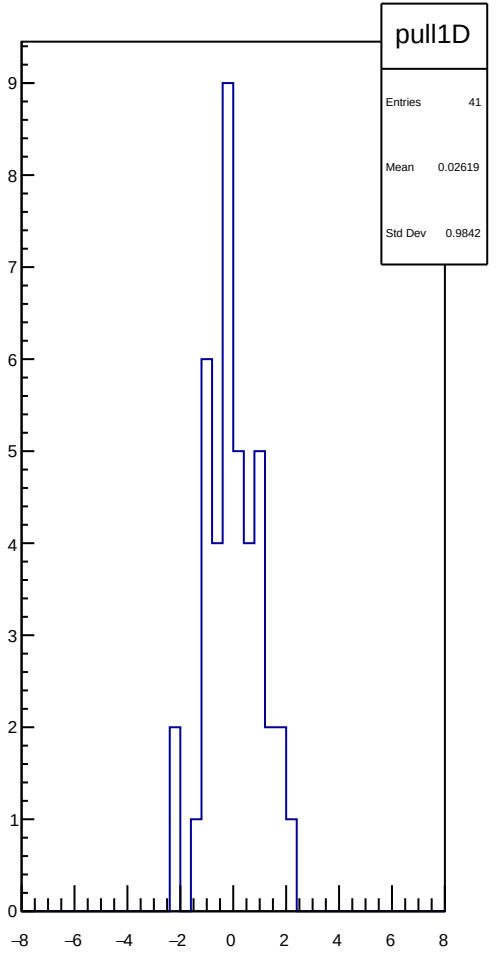

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.53 / 40
p0 −0.09016 ± 0.1295
pull
Entries 41
Mean −18.86
Std Dev 0
pull1D
Entries 41
Mean −0.06055
Std Dev 1.005

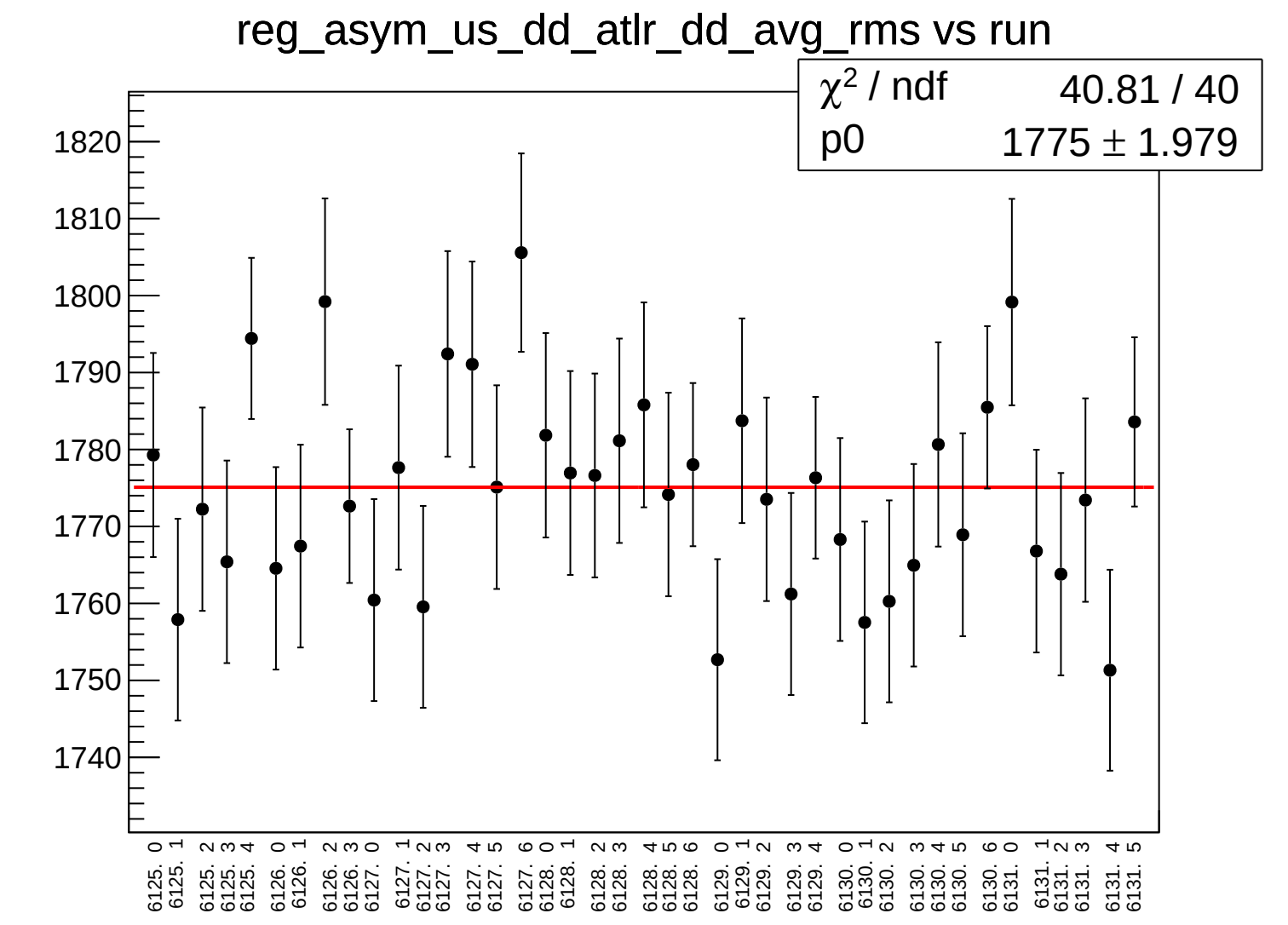

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.177e+04 / 40
p0 81.03 ± 0.0916
120
110
100
90
80
70
60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

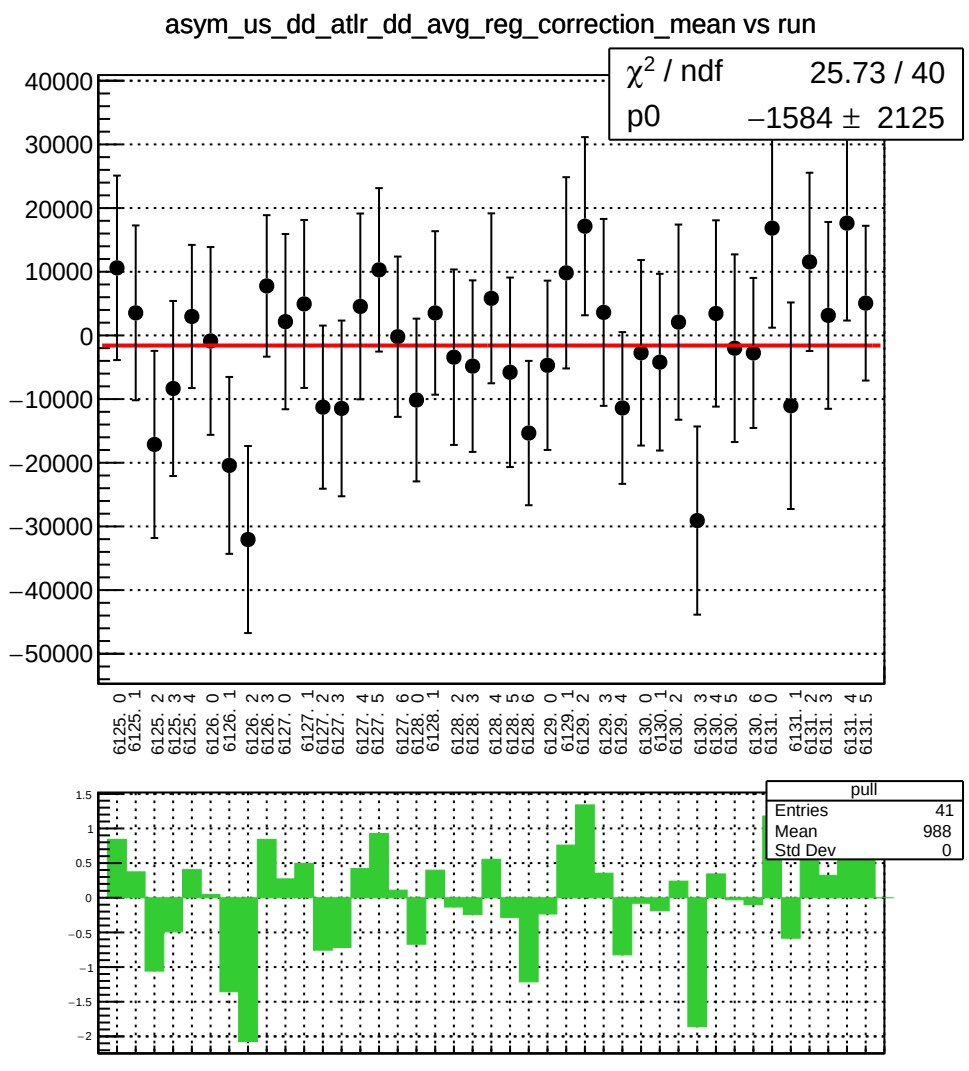

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.26 / 40
p0 −2.606e−14 ± 6.727e−14
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −44.09
Std Dev 0
pull1D
Entries 41
Mean −0.04224
Std Dev 0.9264

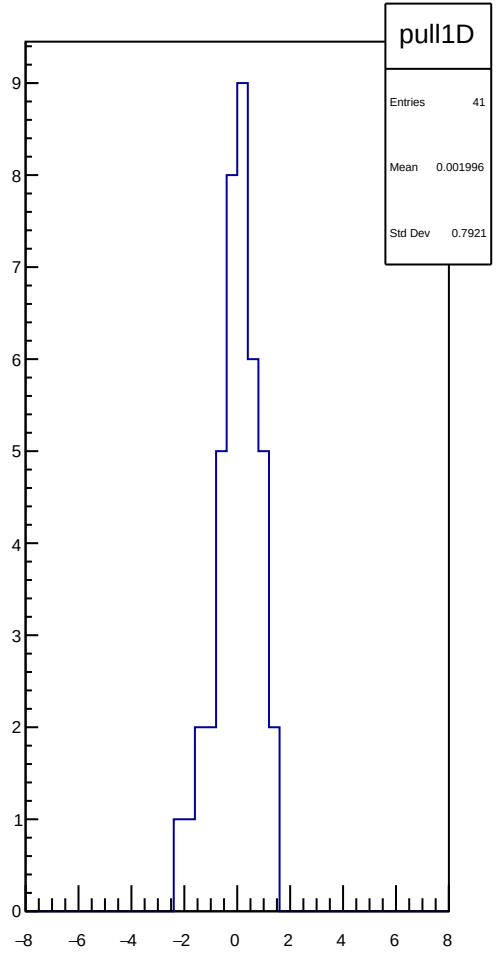

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.394e+05 / 40
p0 3.575e−11 ± 4.756e−14
0.25
0.2
0.15
0.1
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

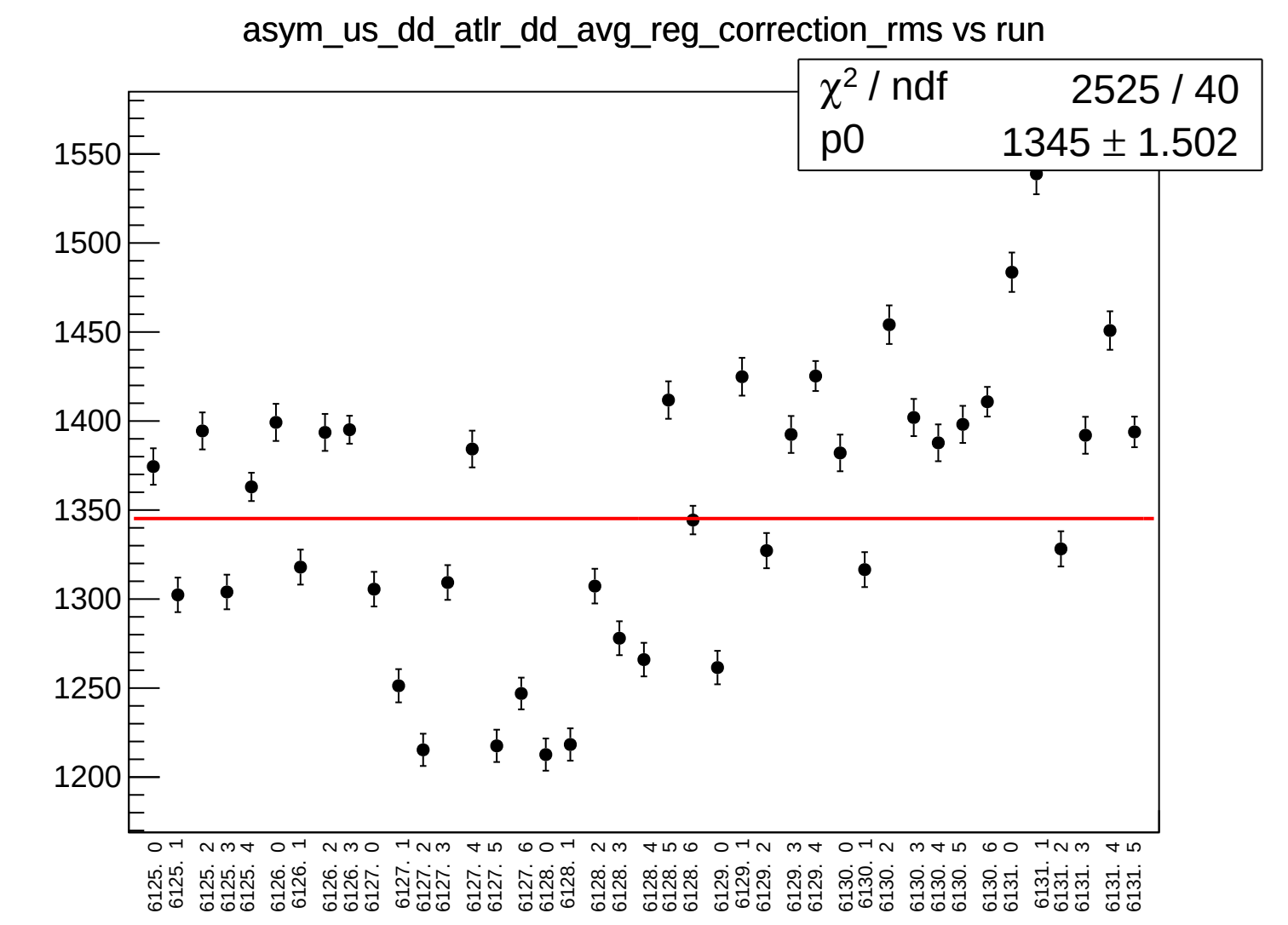

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 39.75 / 40
p0 2808 ± 2799
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 56.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

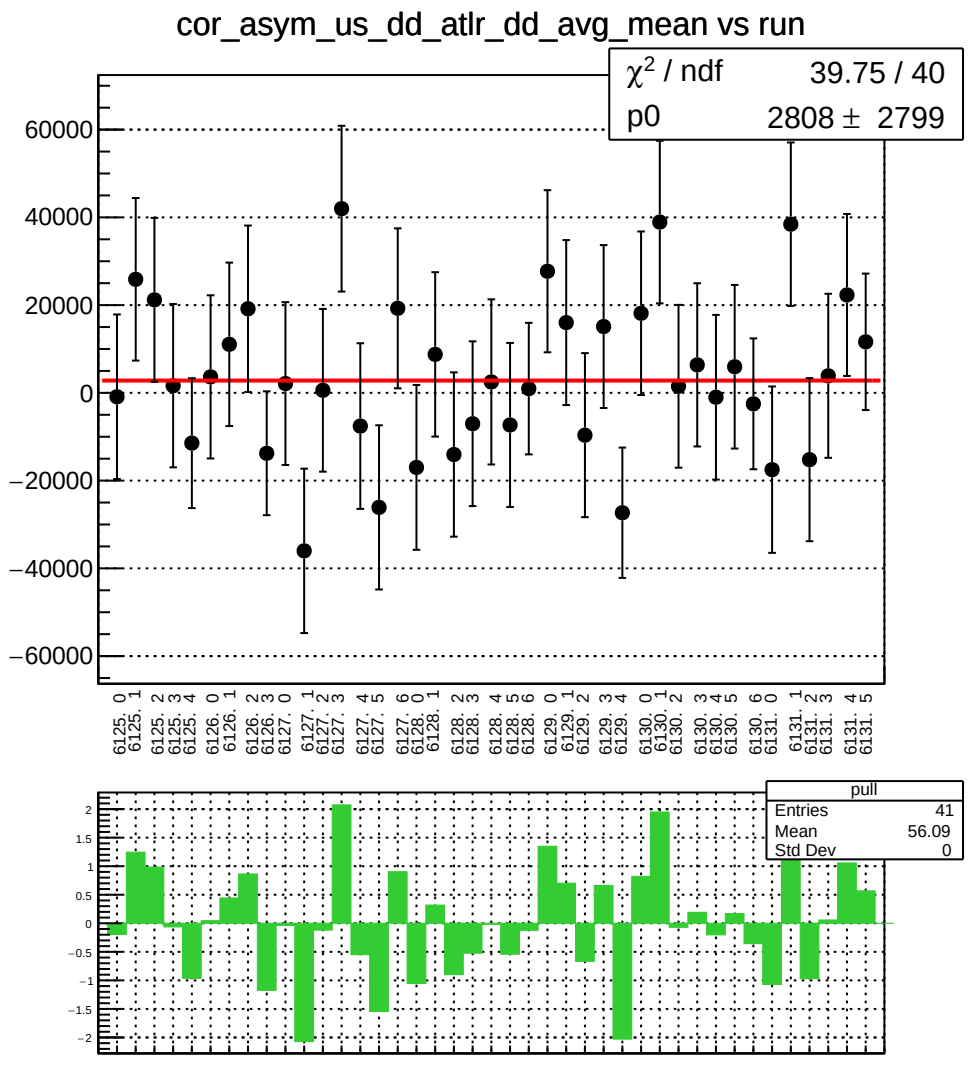

pull1D
Entries 41
Mean 0.02619
Std Dev 0.9842
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

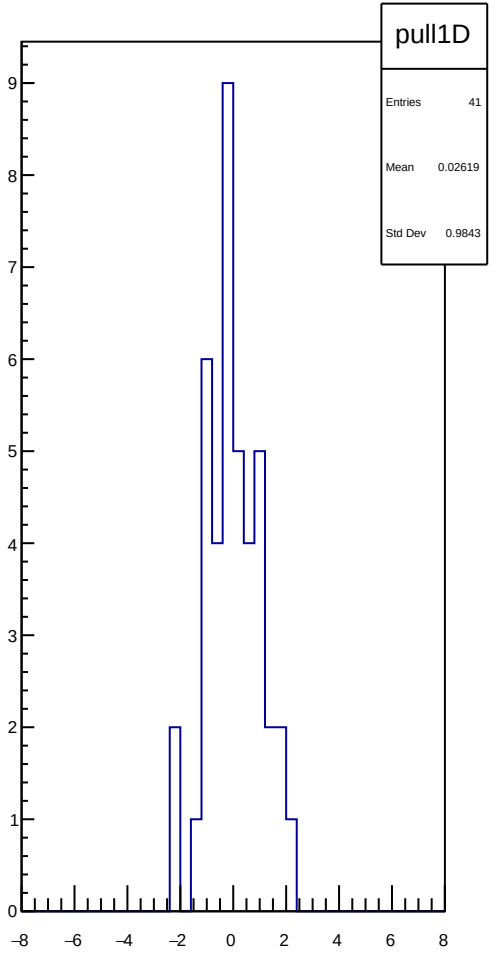

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 40.81 / 40
p0 1775 ± 1.979
1820
1810
1800
1790
1780
1770
1760
1750
1740
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 25.73 / 40
p0 −1584 ± 2125
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 988
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.001996
Std Dev 0.7921
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_reg_correction_rms vs run
χ² / ndf 2525 / 40
p0 1345 ± 1.502
1550
1500
1450
1400
1350
1300
1250
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 39.75 / 40
p0 2808 ± 2799
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 56.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.02619
Std Dev 0.9843
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8
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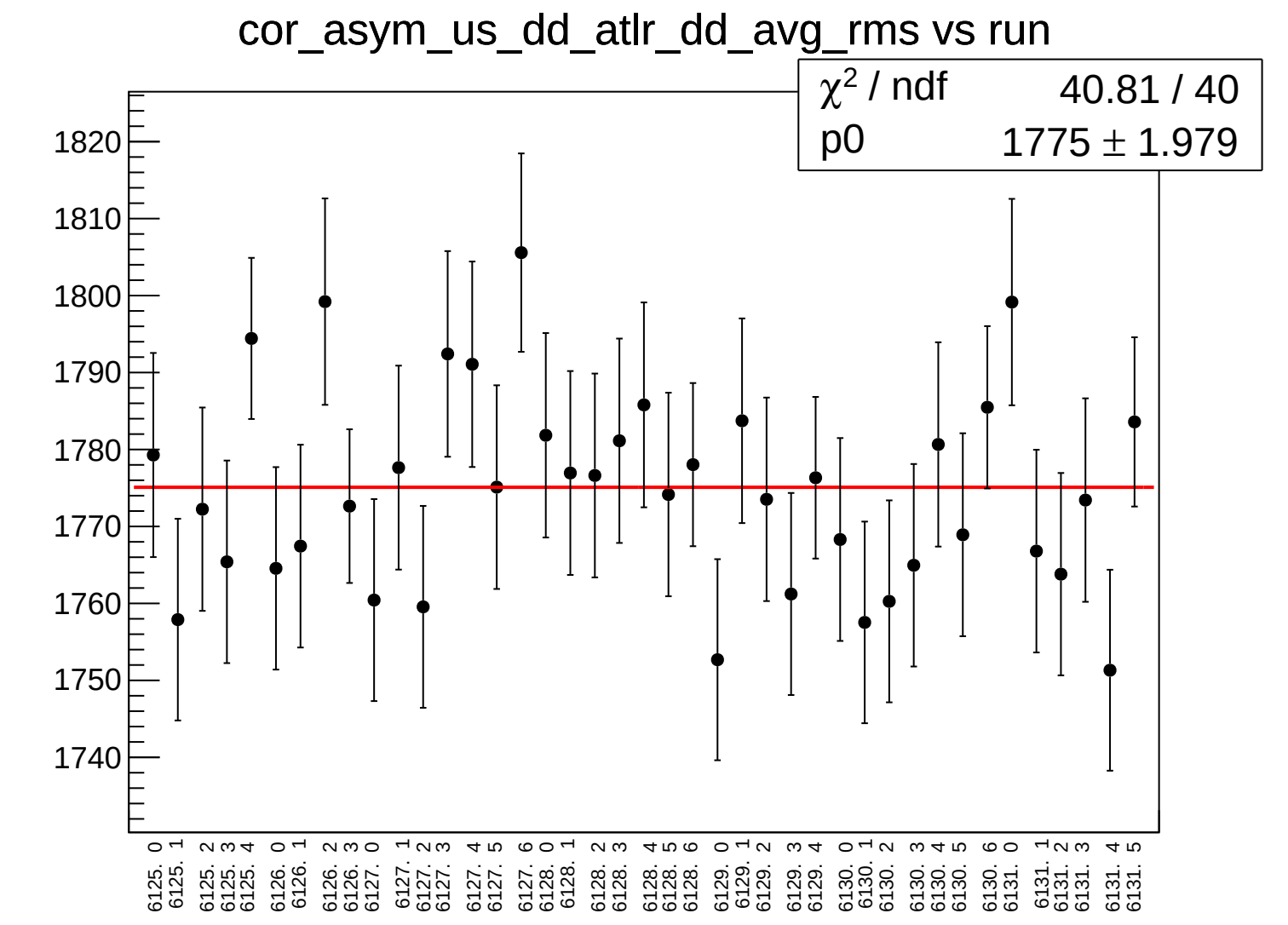
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 40.81 / 40
p0 1775 ± 1.979
1820
1810
1800
1790
1780
1770
1760
1750
1740
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6130. 5
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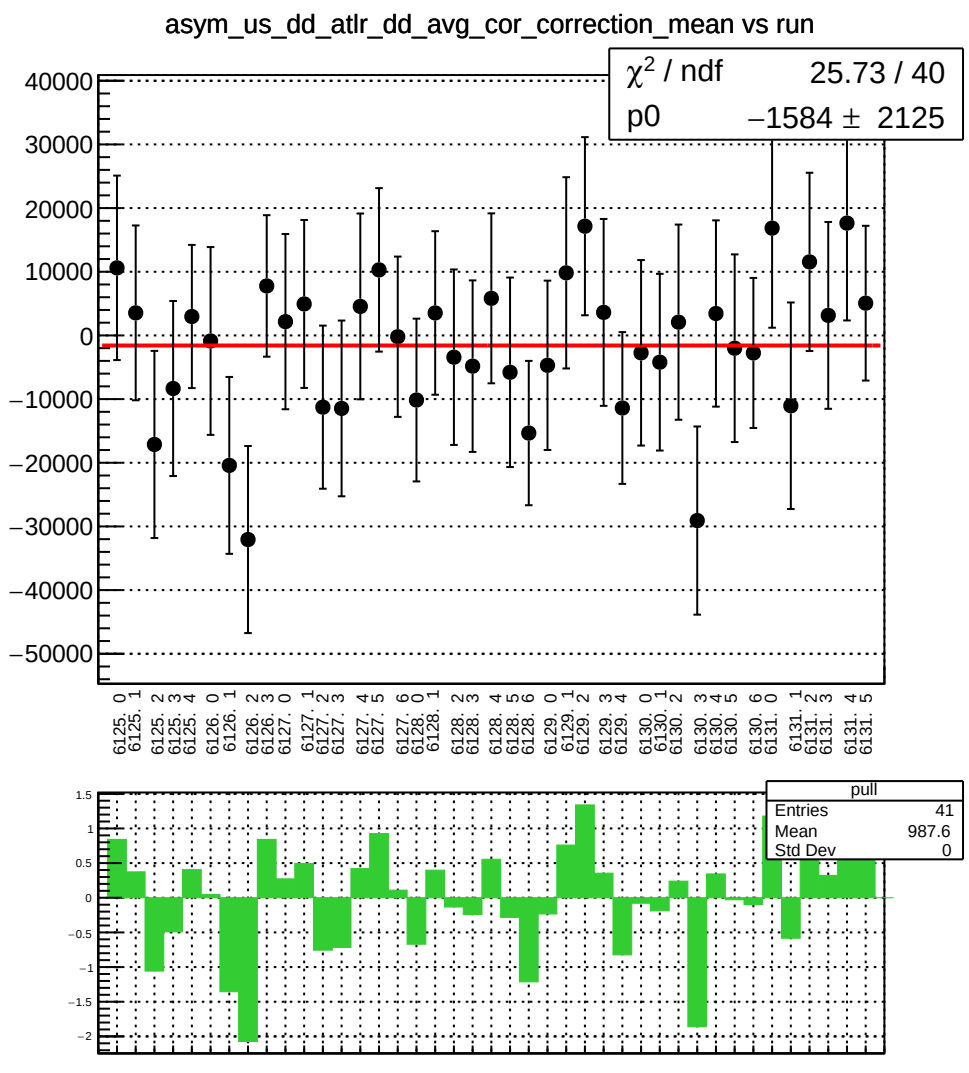
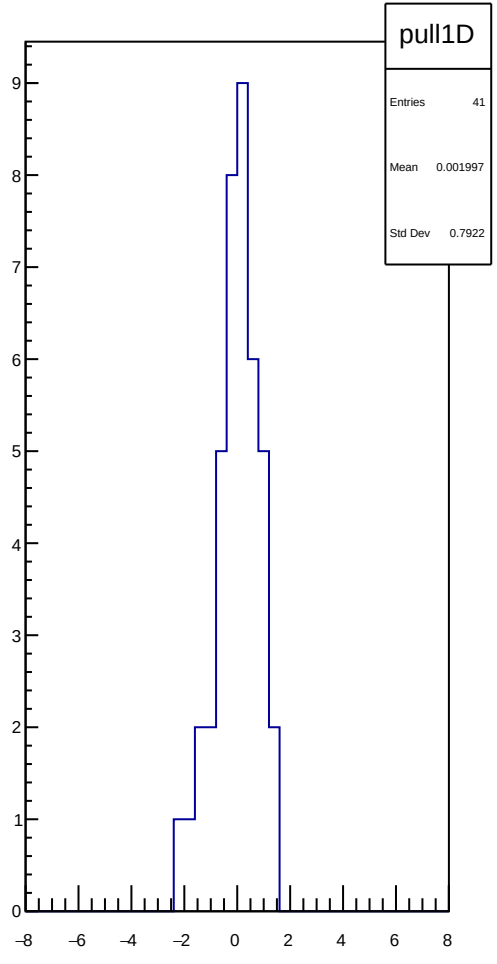
6131. 4
6131. 5


asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 25.73 / 40
p0 −1584 ± 2125
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 987.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.001997
Std Dev 0.7922
9
8
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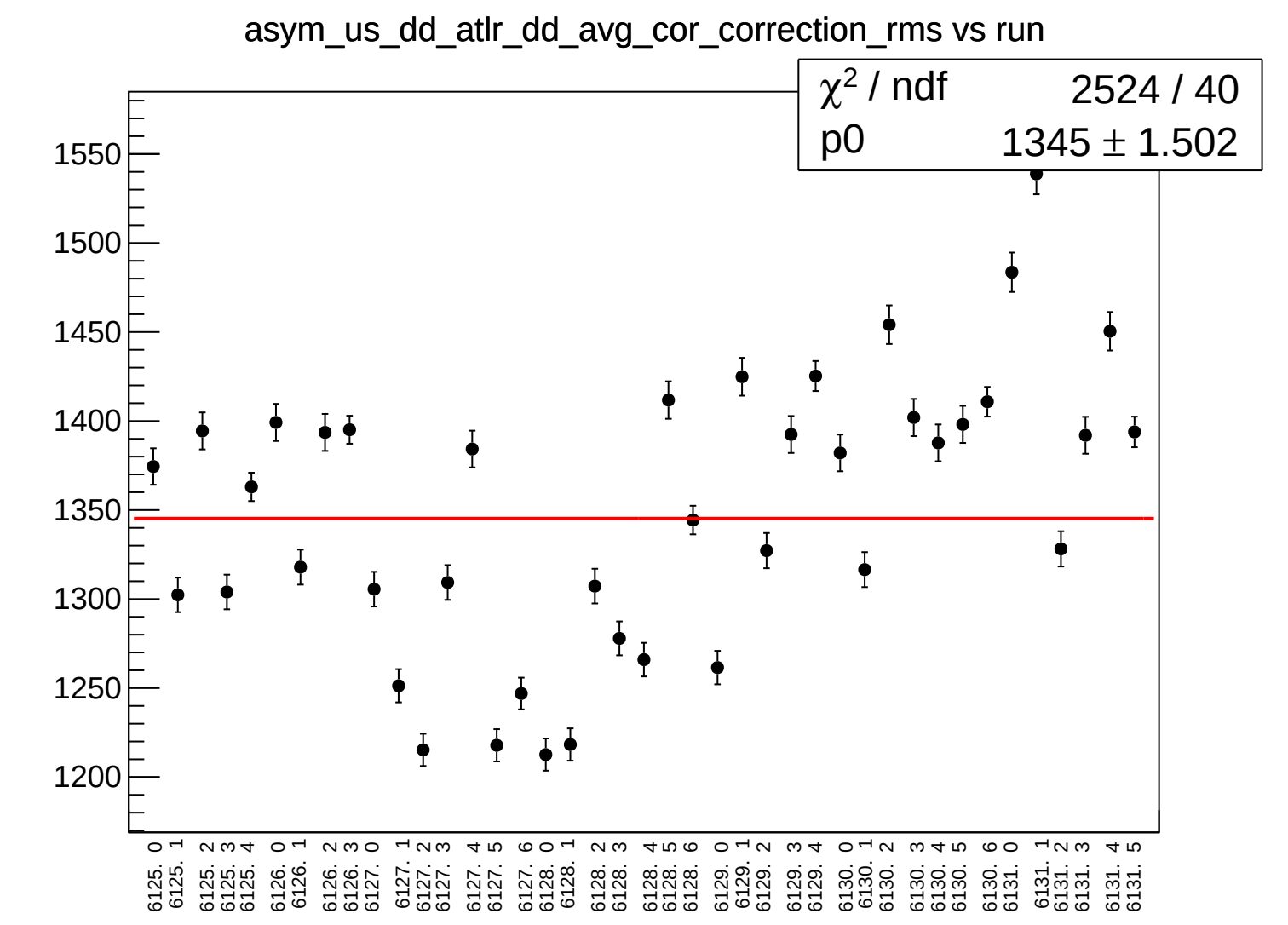
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 2524 / 40
p0 1345 ± 1.502
1550
1500
1450
1400
1350
1300
1250
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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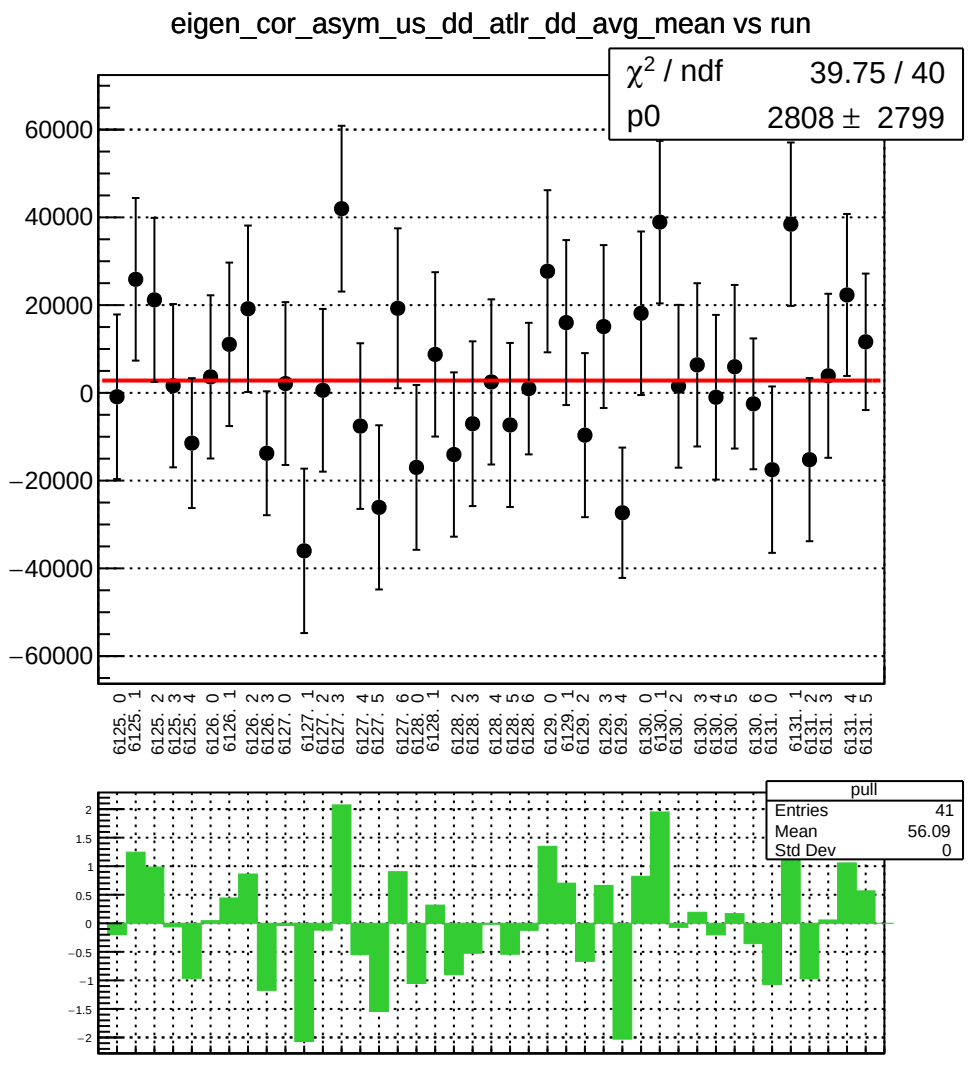
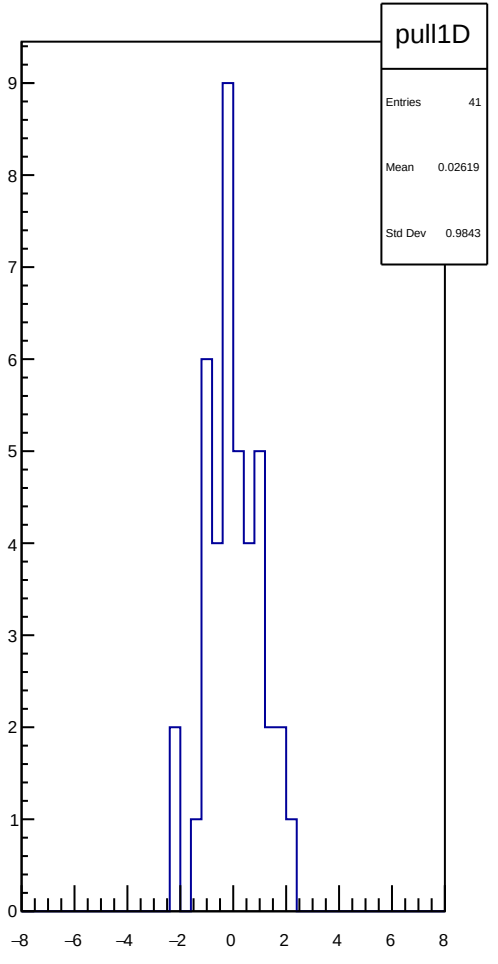
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 39.75 / 40
p0 2808 ± 2799
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 56.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.02619
Std Dev 0.9843
9
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−8
−6
−4
−2
0
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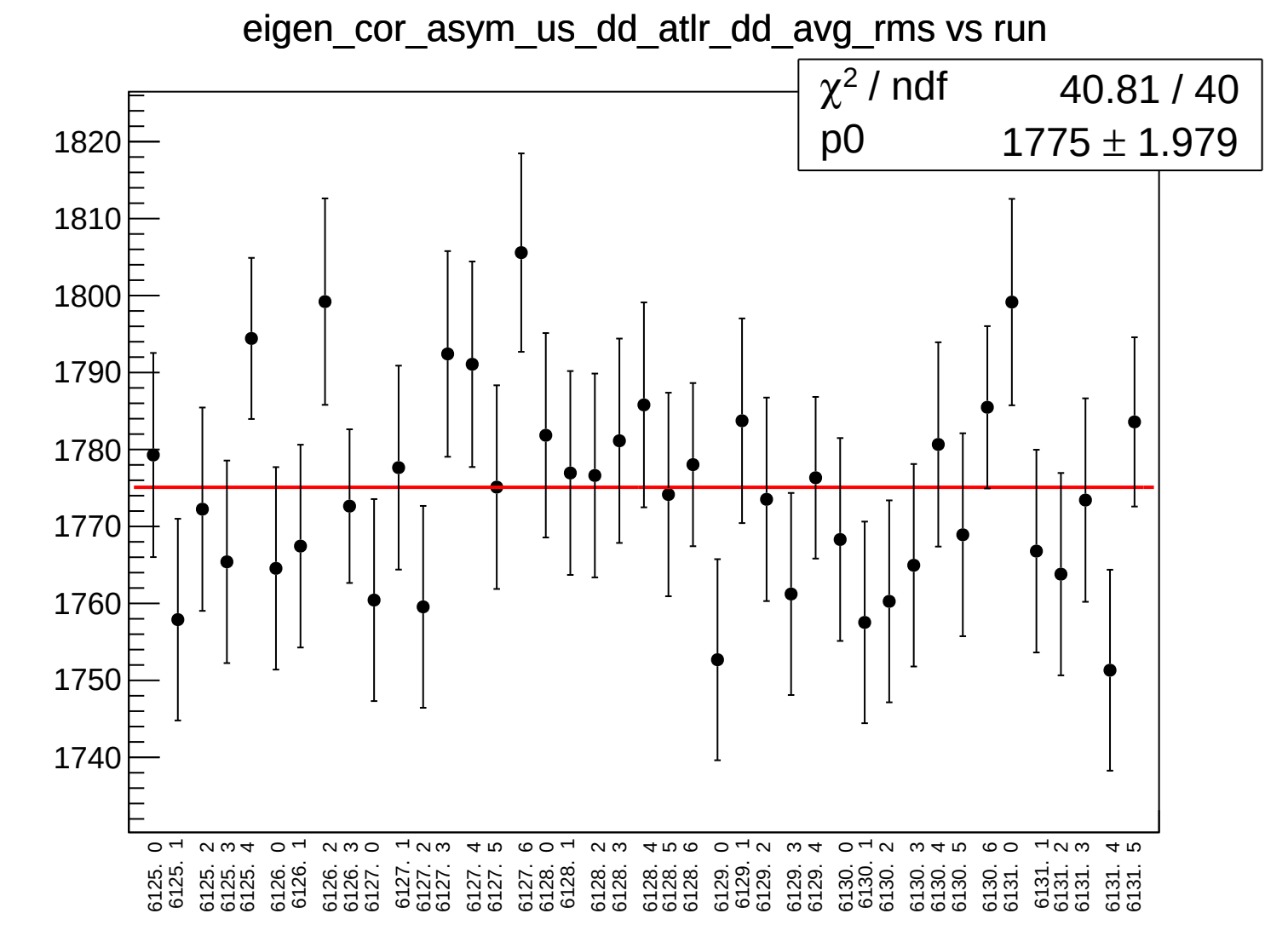
eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 40.81 / 40
p0 1775 ± 1.979
1820
1810
1800
1790
1780
1770
1760
1750
1740
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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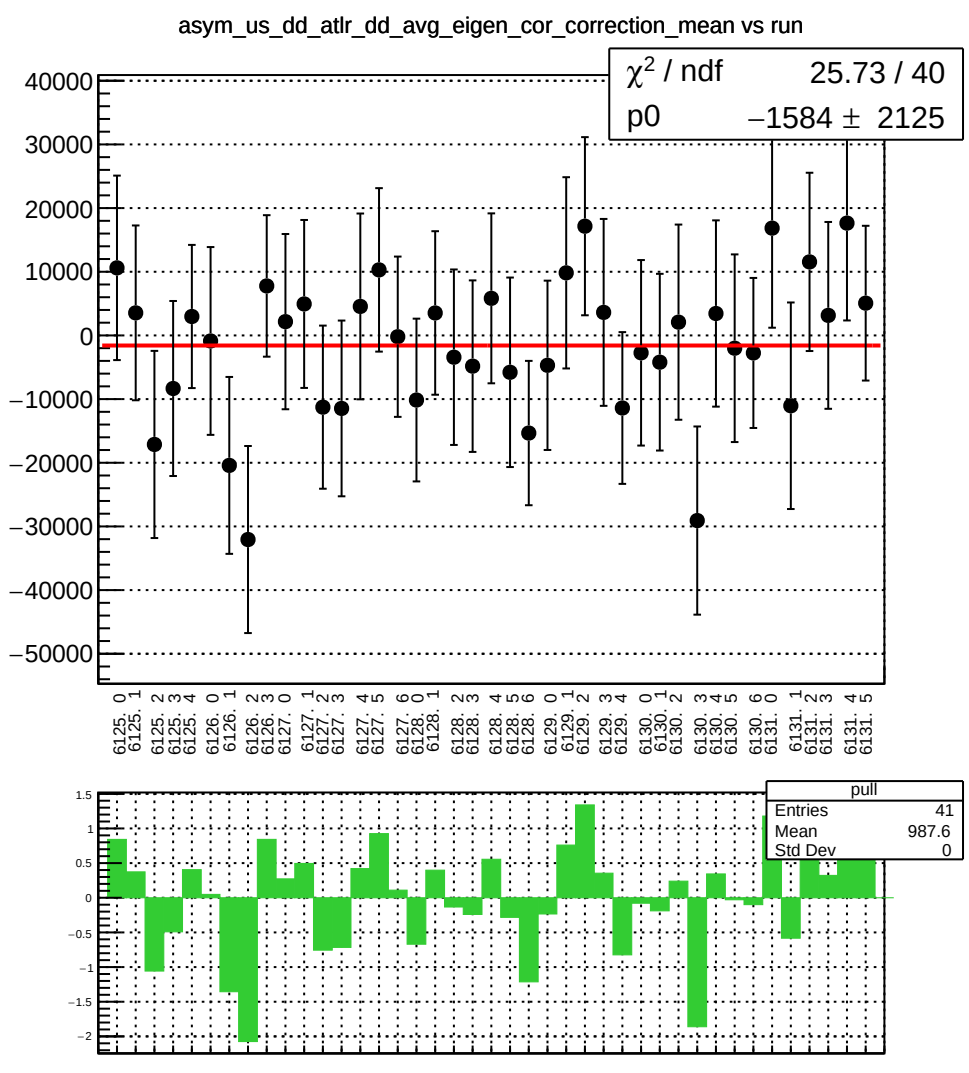
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 25.73 / 40
p0 −1584 ± 2125
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
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6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
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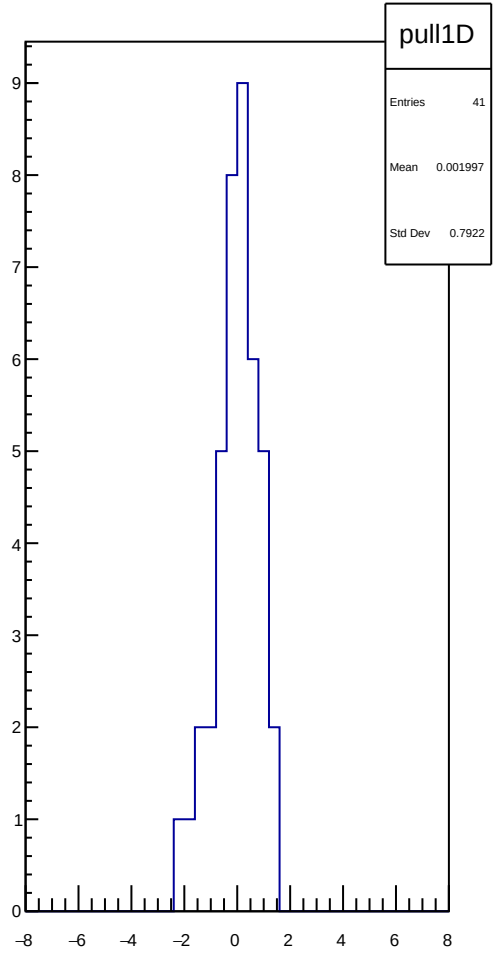
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 987.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.001997
Std Dev 0.7922
9
8
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1
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−4
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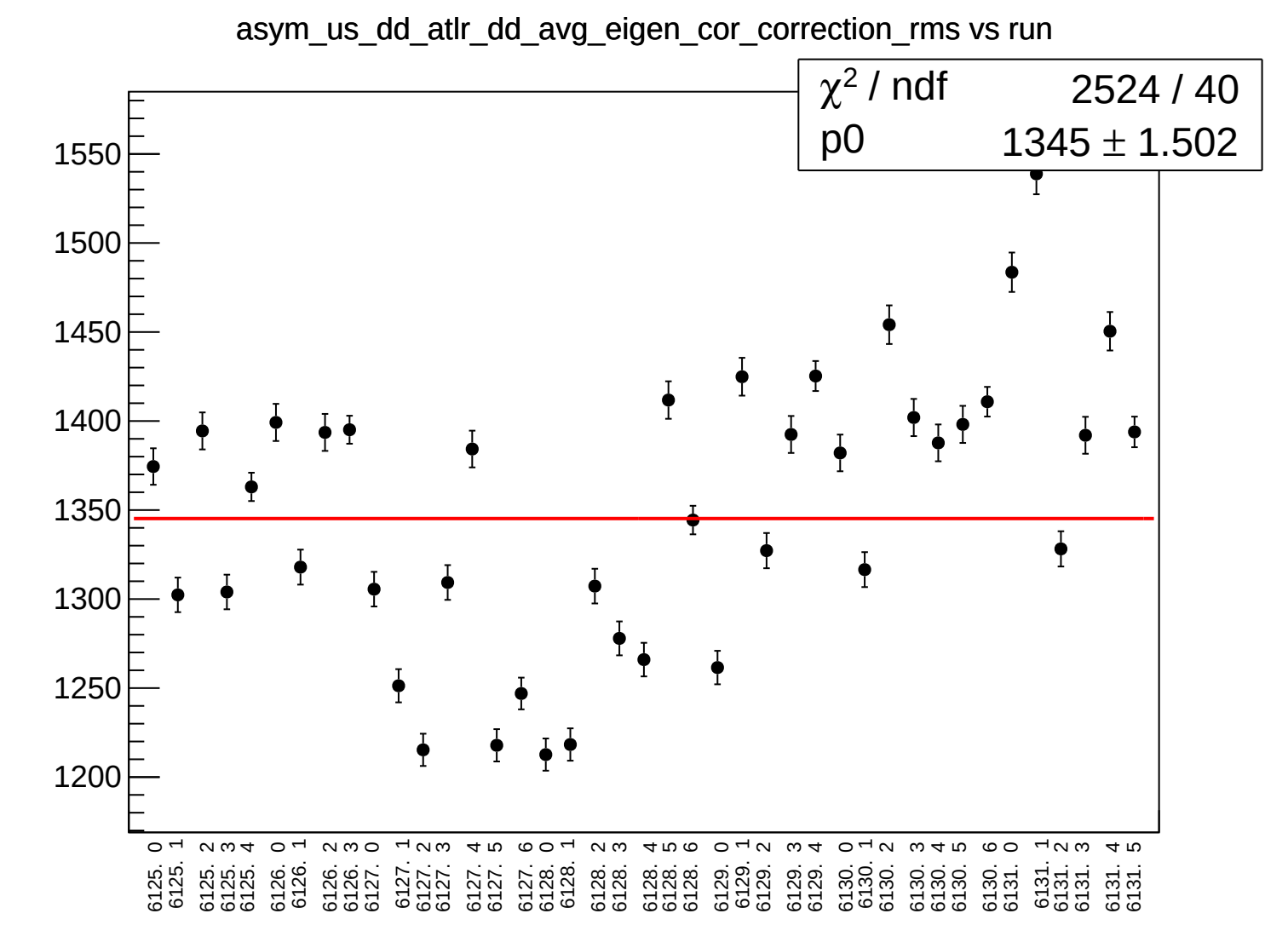
8


asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2524 / 40
p0 1345 ± 1.502
1550
1500
1450
1400
1350
1300
1250
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6130. 5
6130. 6
6131. 0
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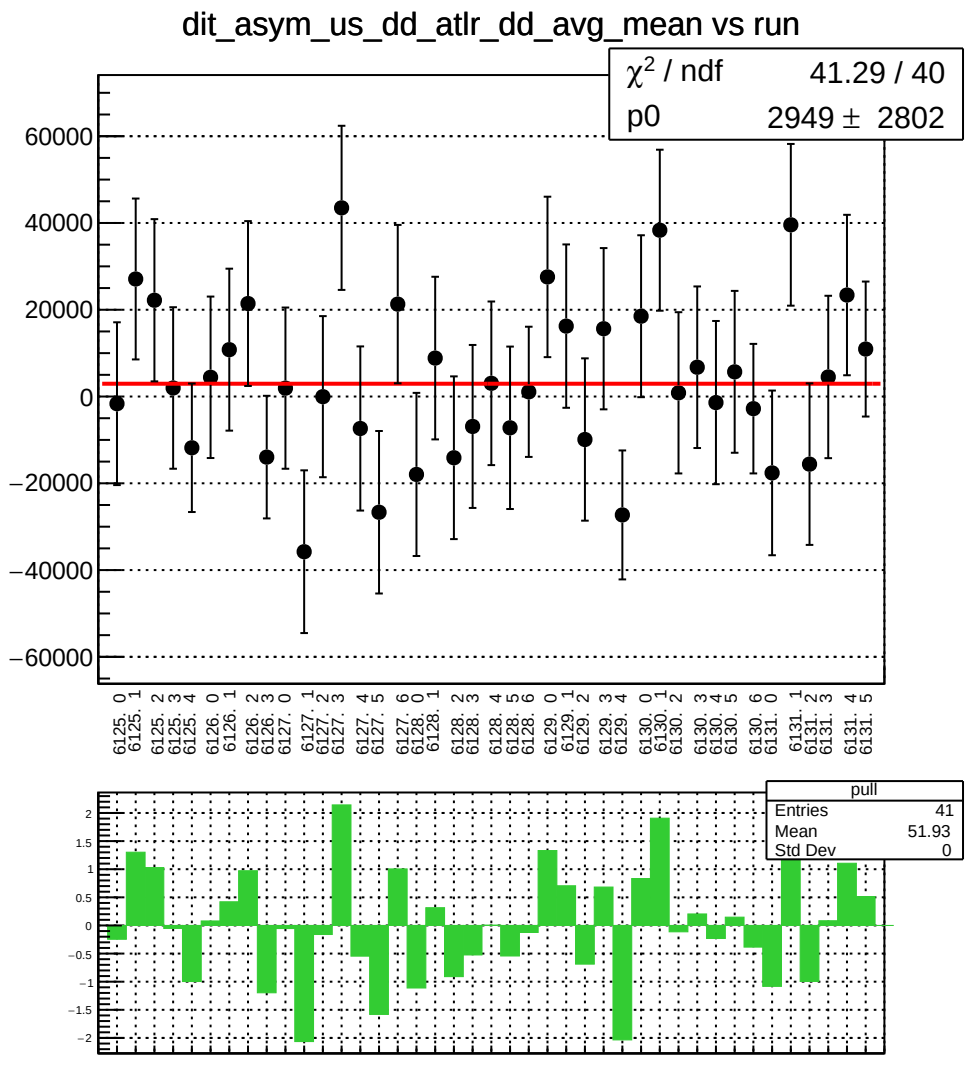
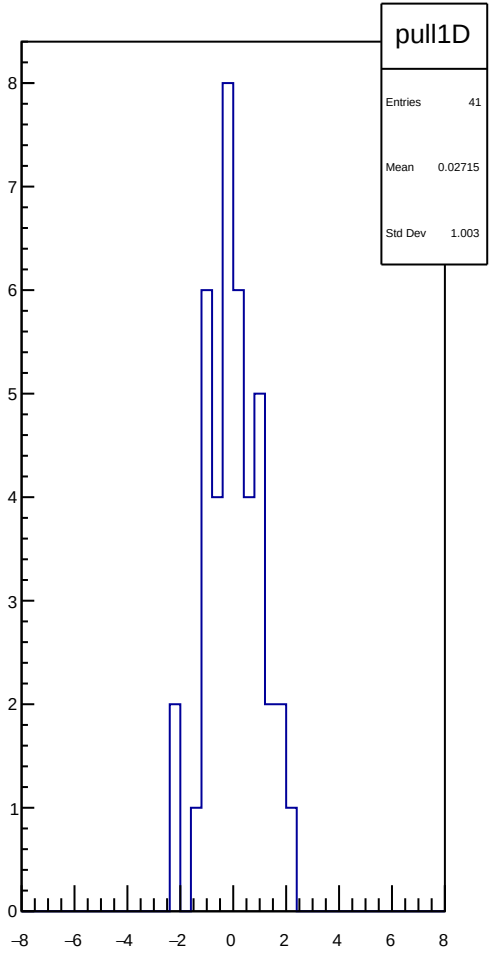
6131. 2
6131. 3
6131. 4
6131. 5


dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 41.29 / 40
p0 2949 ± 2802
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 51.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.02715
Std Dev 1.003
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7
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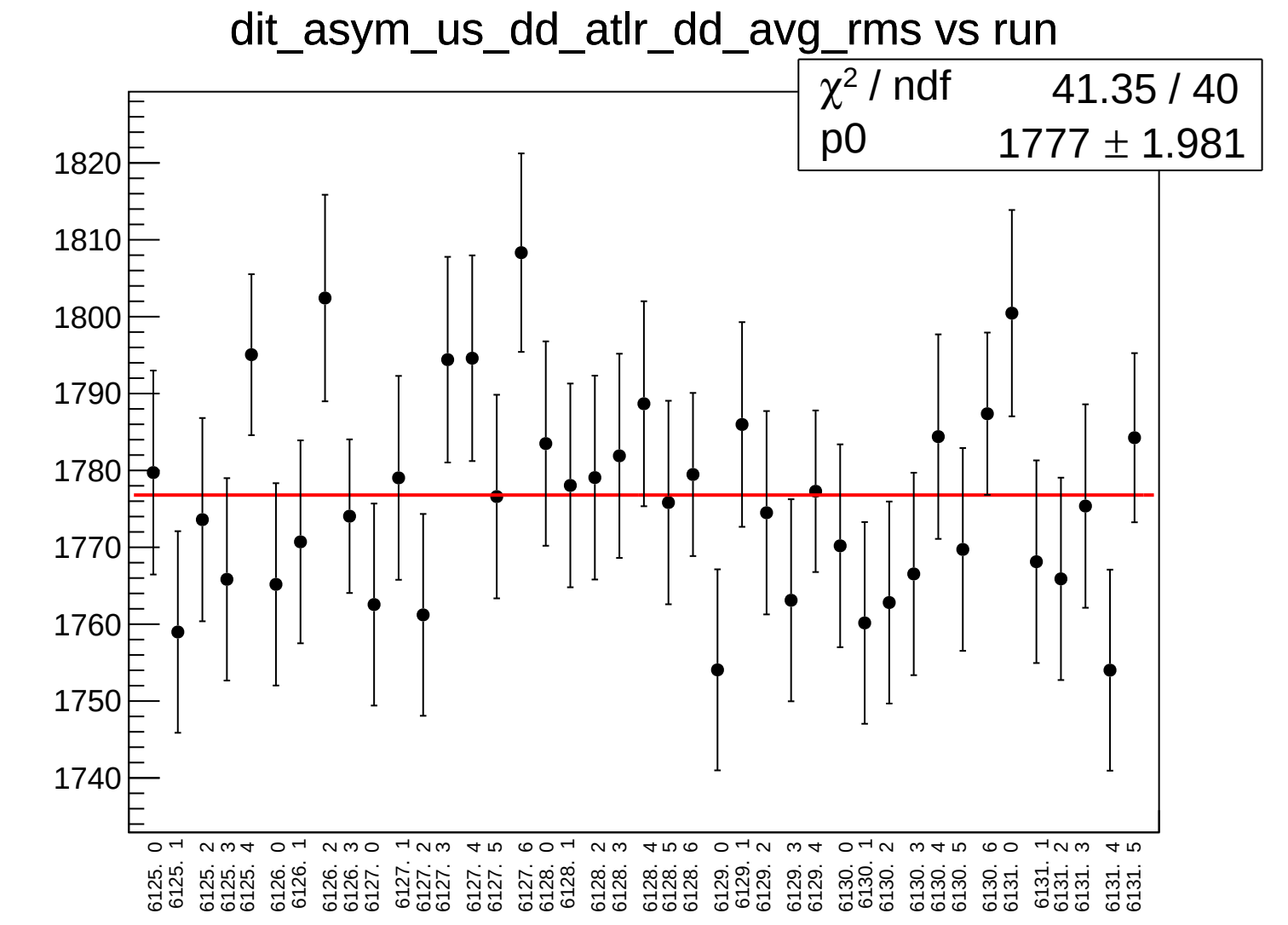
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 41.35 / 40
p0 1777 ± 1.981
1820
1810
1800
1790
1780
1770
1760
1750
1740
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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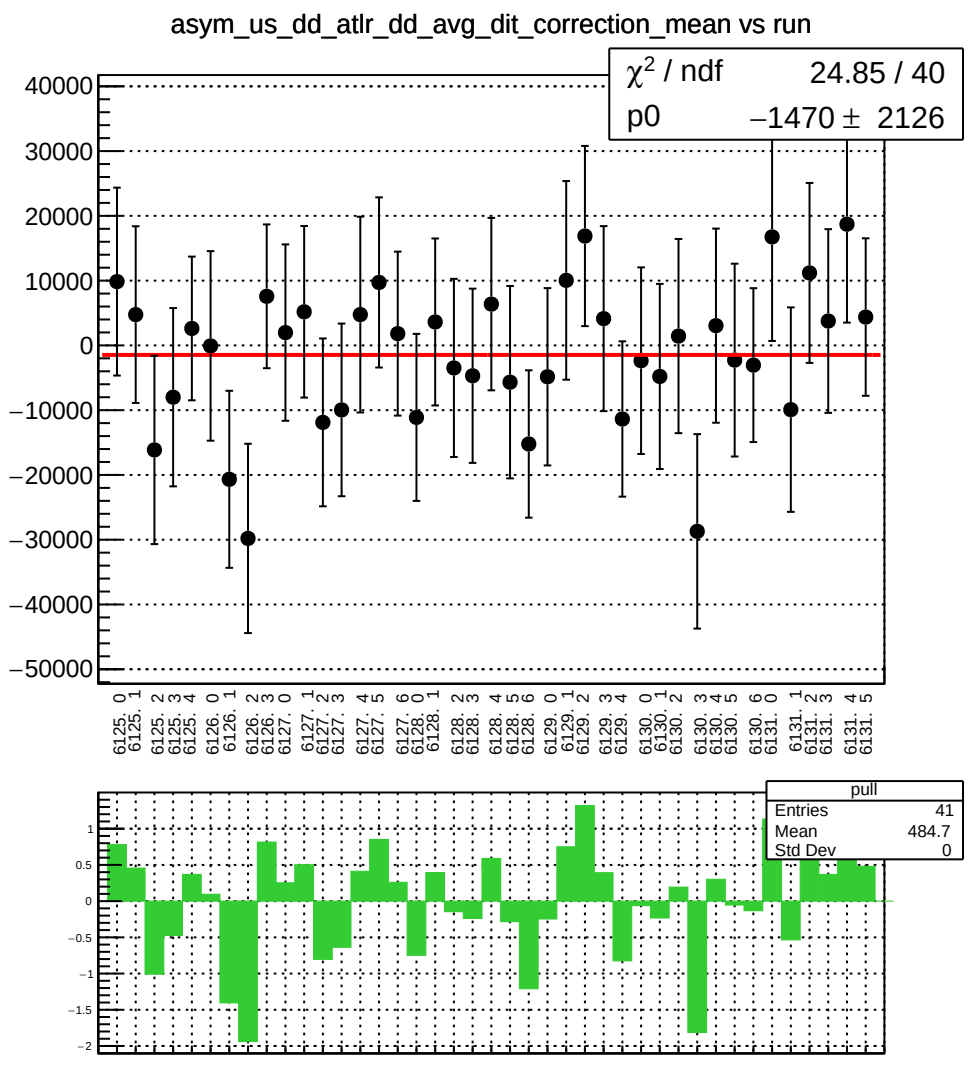
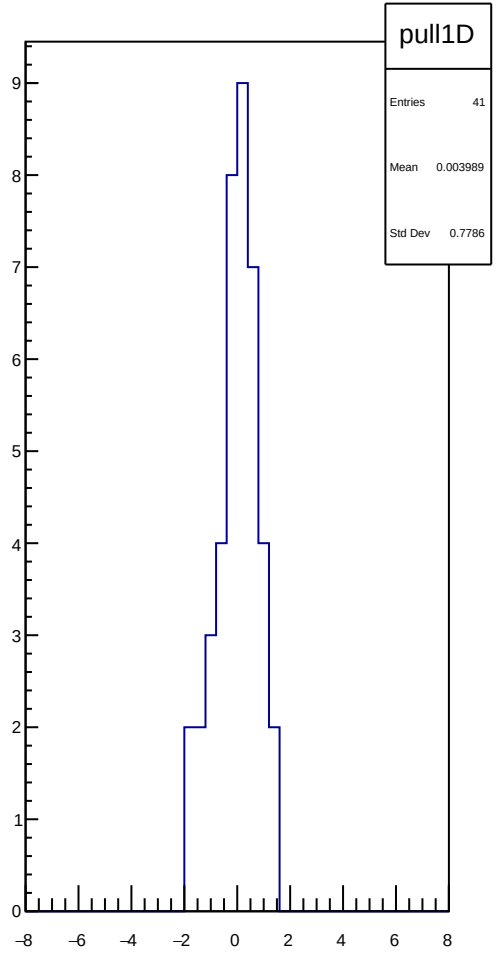
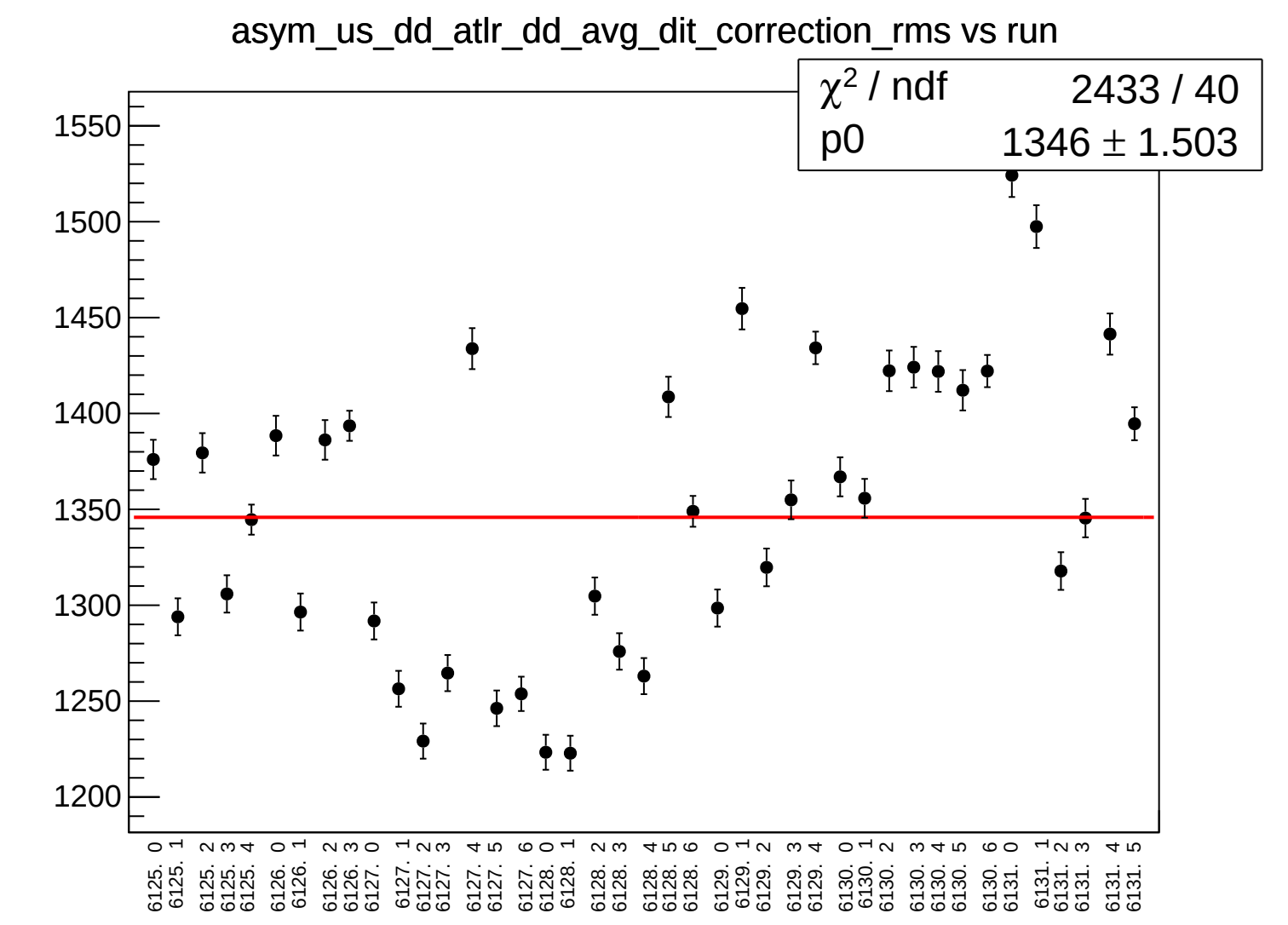
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 24.85 / 40
p0 −1470 ± 2126
pull
Entries 41
Mean 484.7
Std Dev 0


pull1D
Entries 41
Mean 0.003989
Std Dev 0.7786


asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 2433 / 40
p0 1346 ± 1.503
1550
1500
1450
1400
1350
1300
1250
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
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6131. 2
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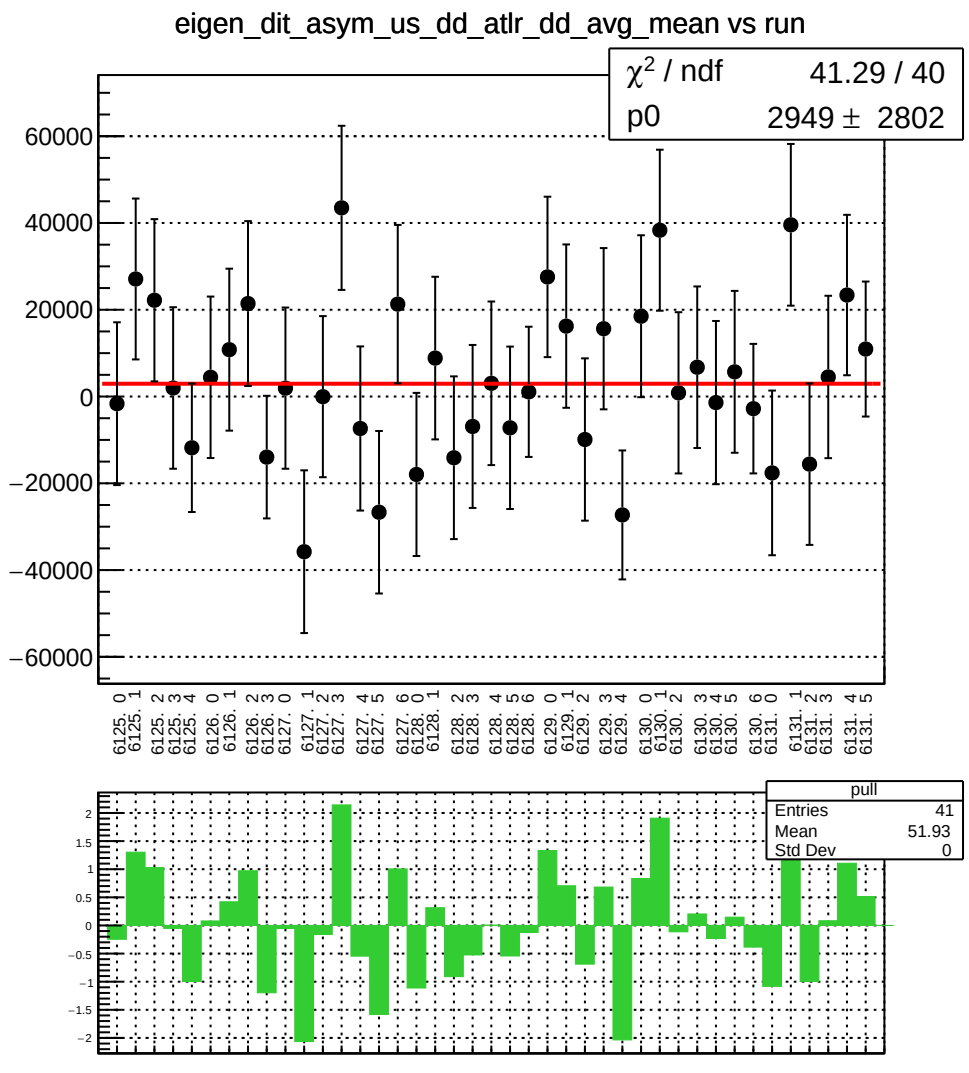
6131. 4
6131. 5


eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 41.29 / 40
p0 2949 ± 2802
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
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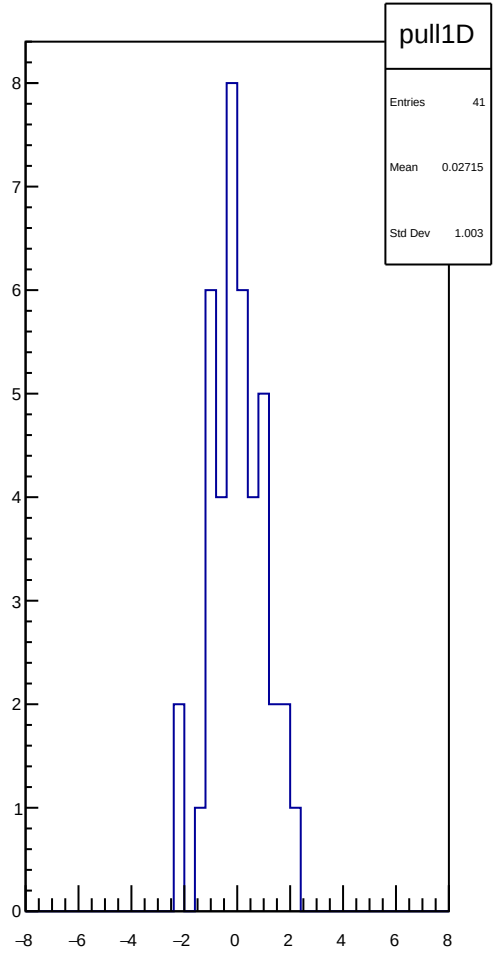
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 51.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.02715
Std Dev 1.003
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5
4
3
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1
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−8
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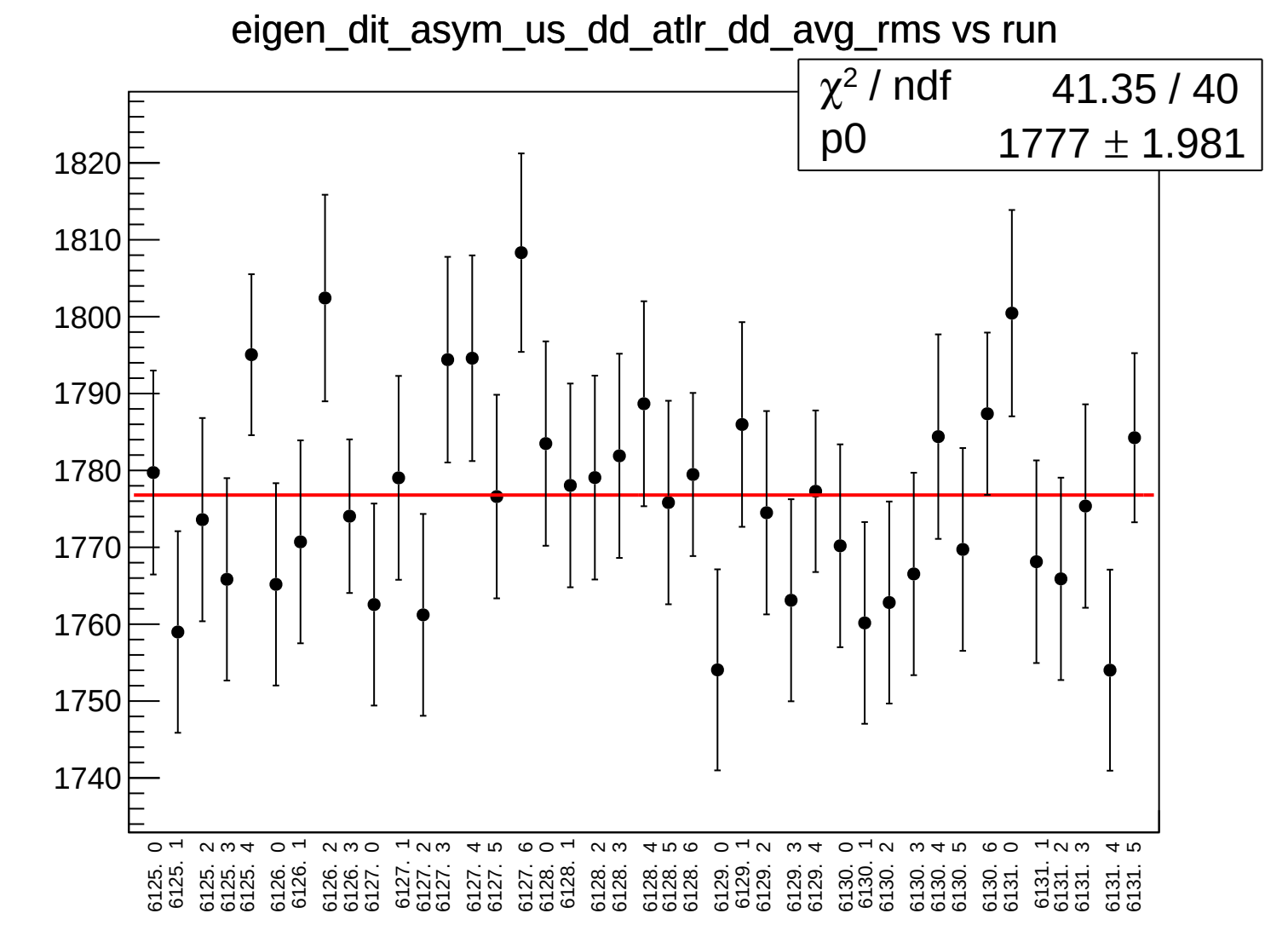
2
4
6
8


eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 41.35 / 40
p0 1777 ± 1.981
1820
1810
1800
1790
1780
1770
1760
1750
1740
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
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6131. 0
6131. 1
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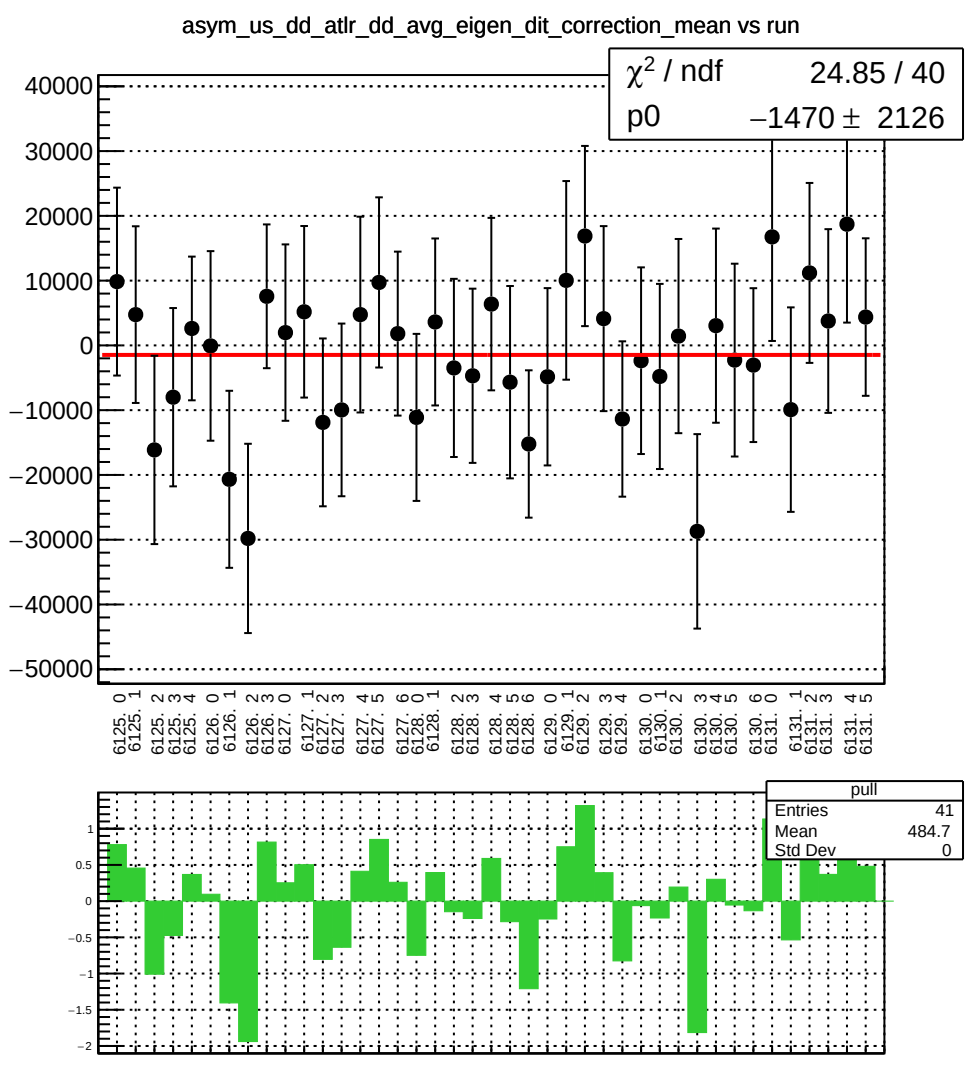
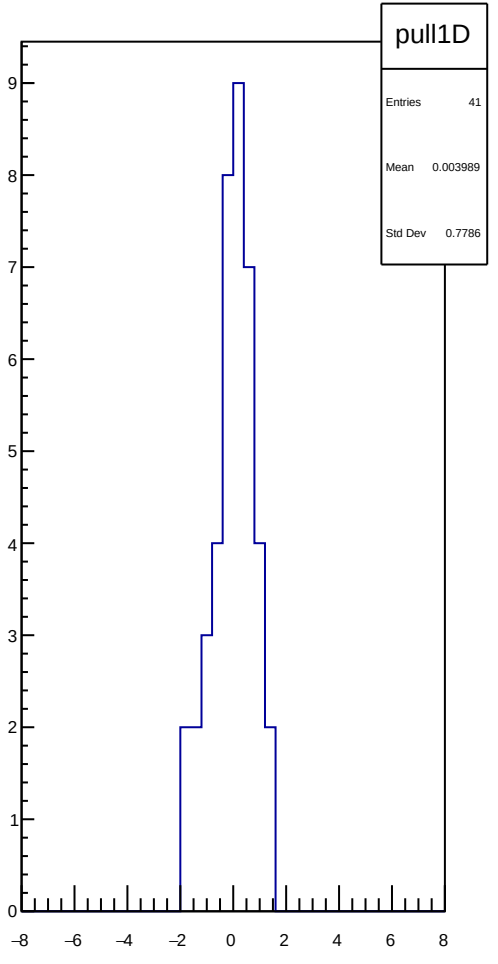
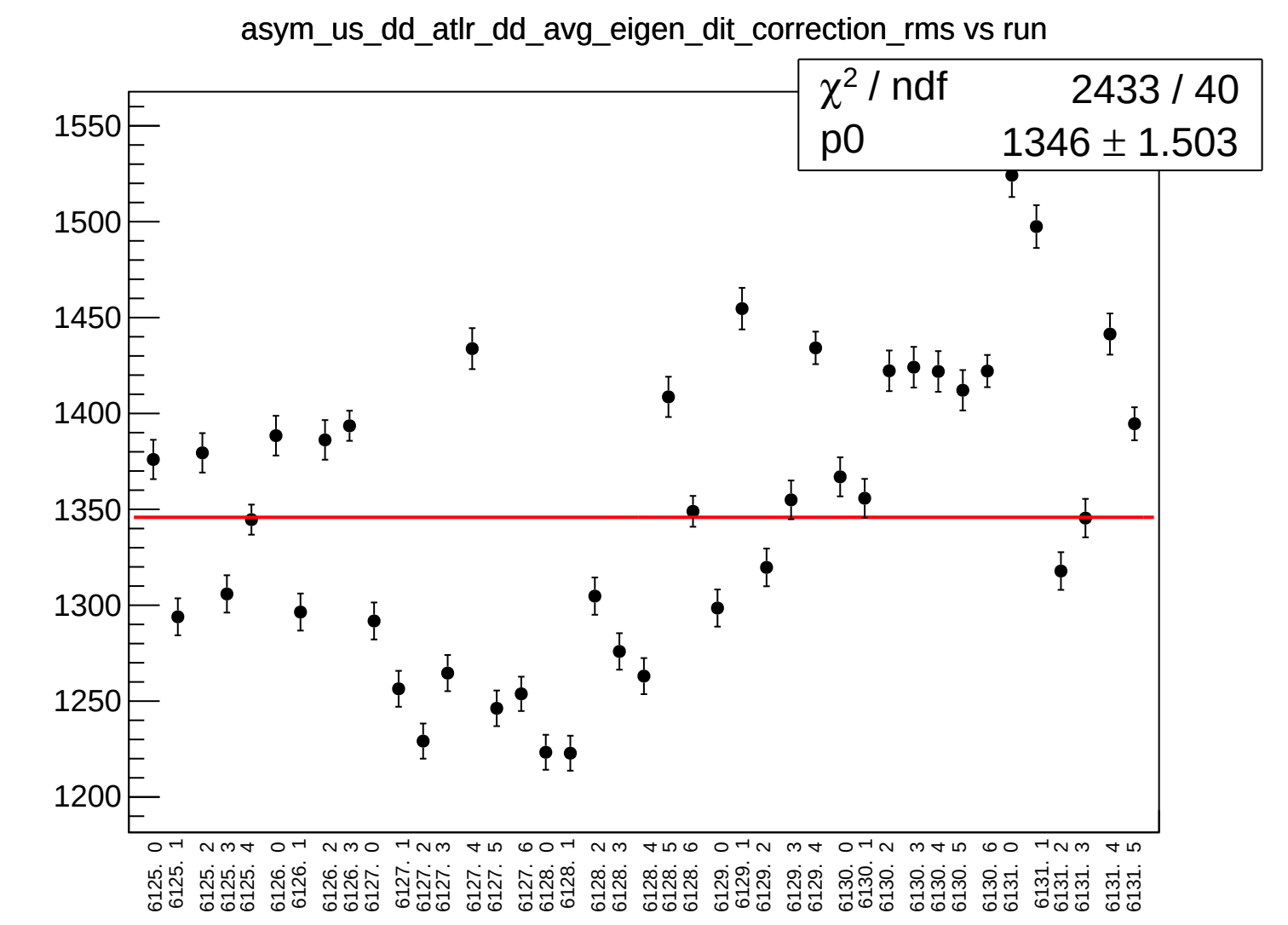
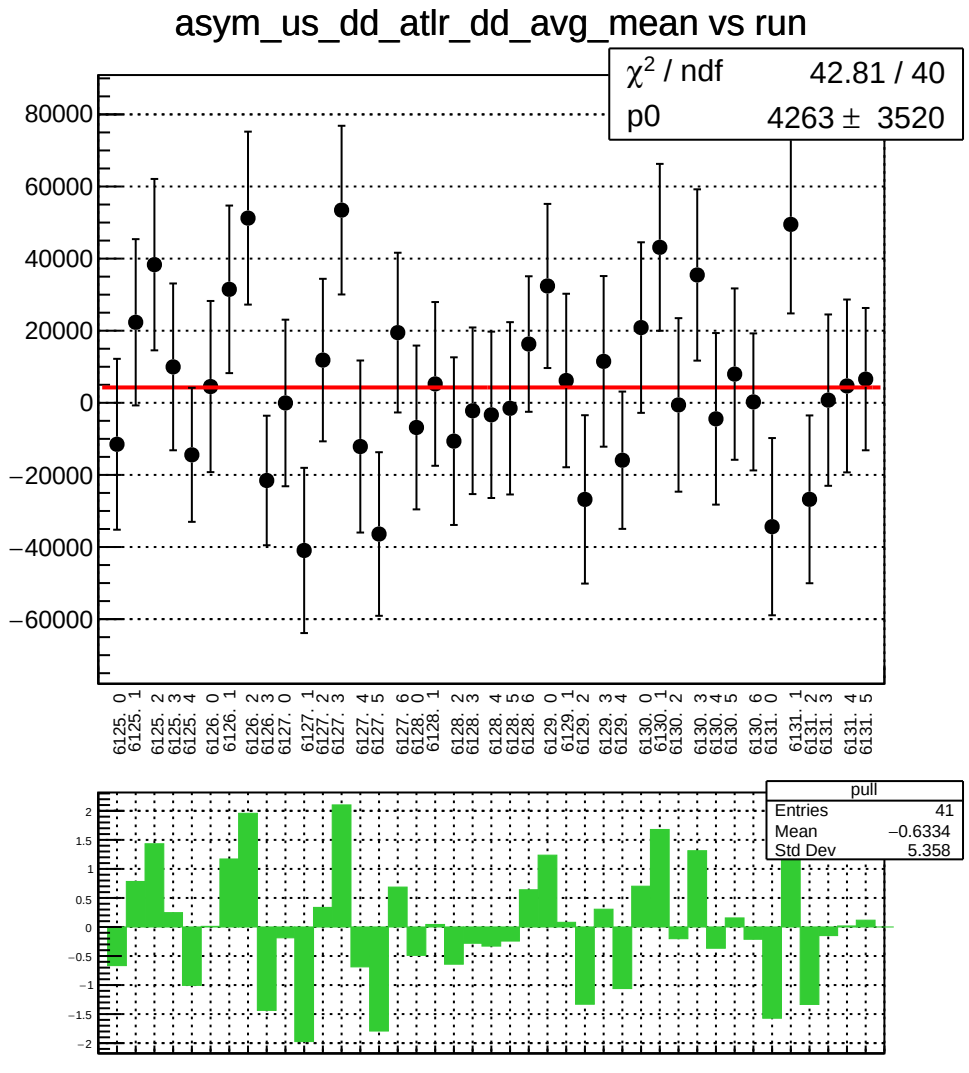
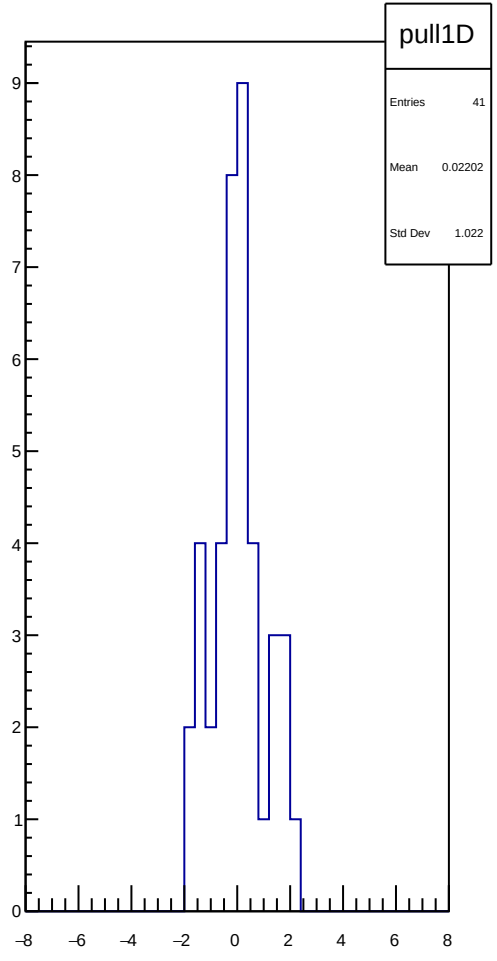
6131. 3
6131. 4
6131. 5

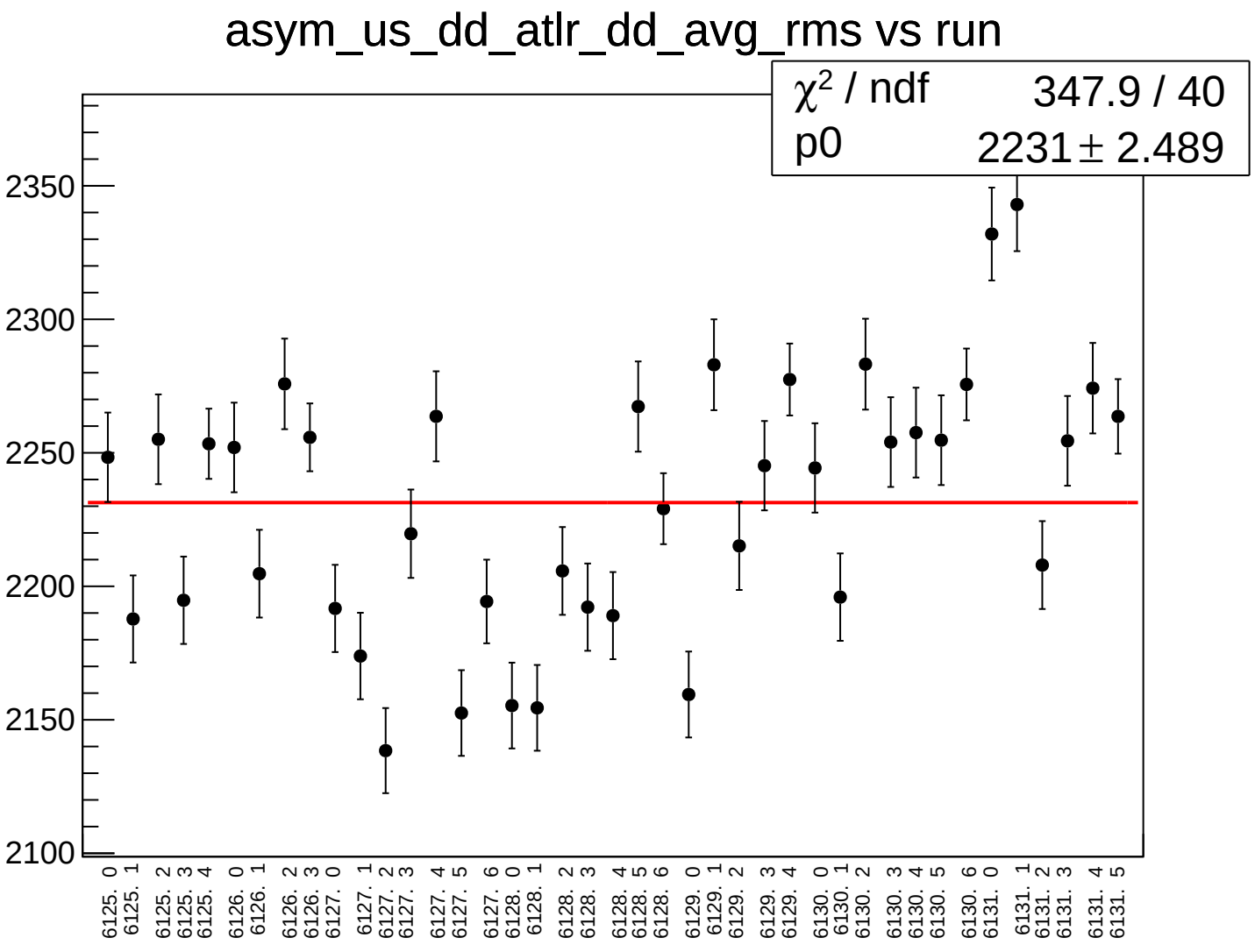

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 24.85 / 40
p0 −1470 ± 2126
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 484.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

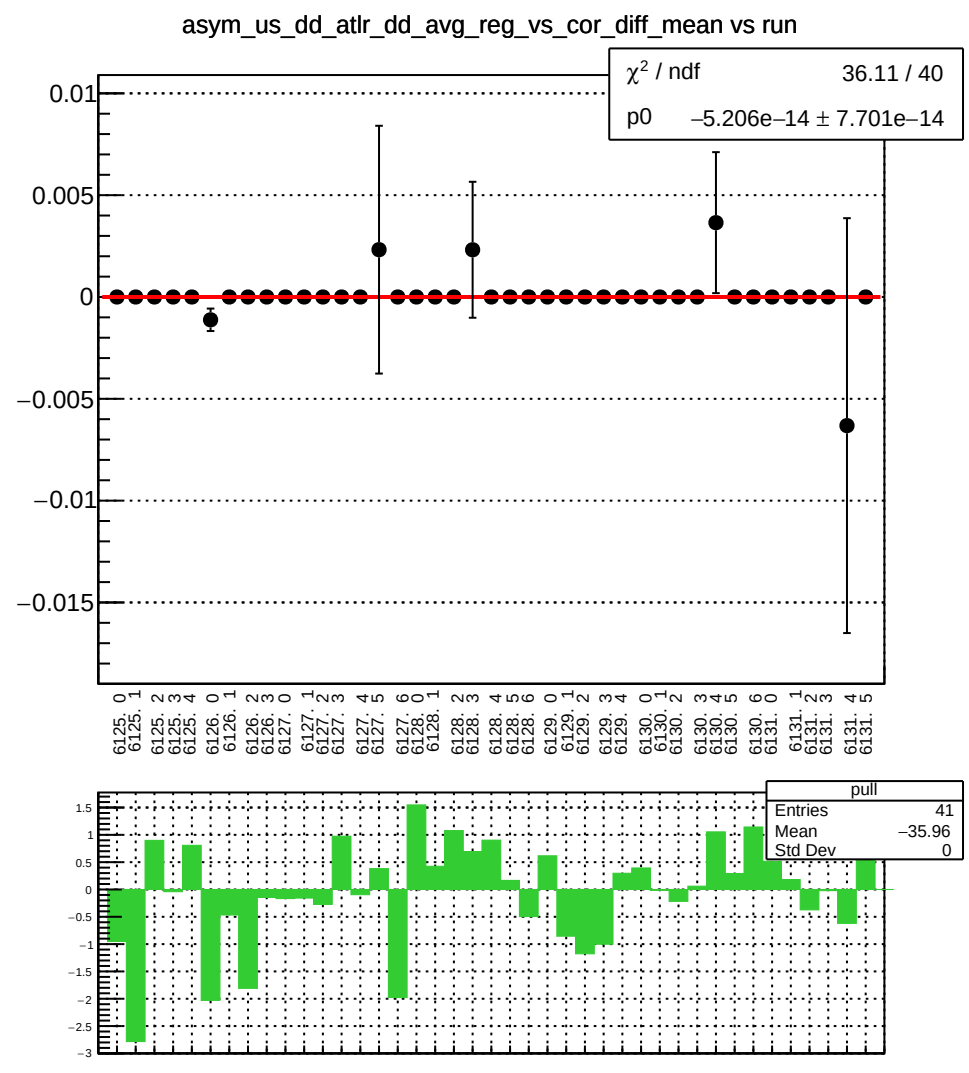

pull1D
Entries 41
Mean 0.003989
Std Dev 0.7786
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

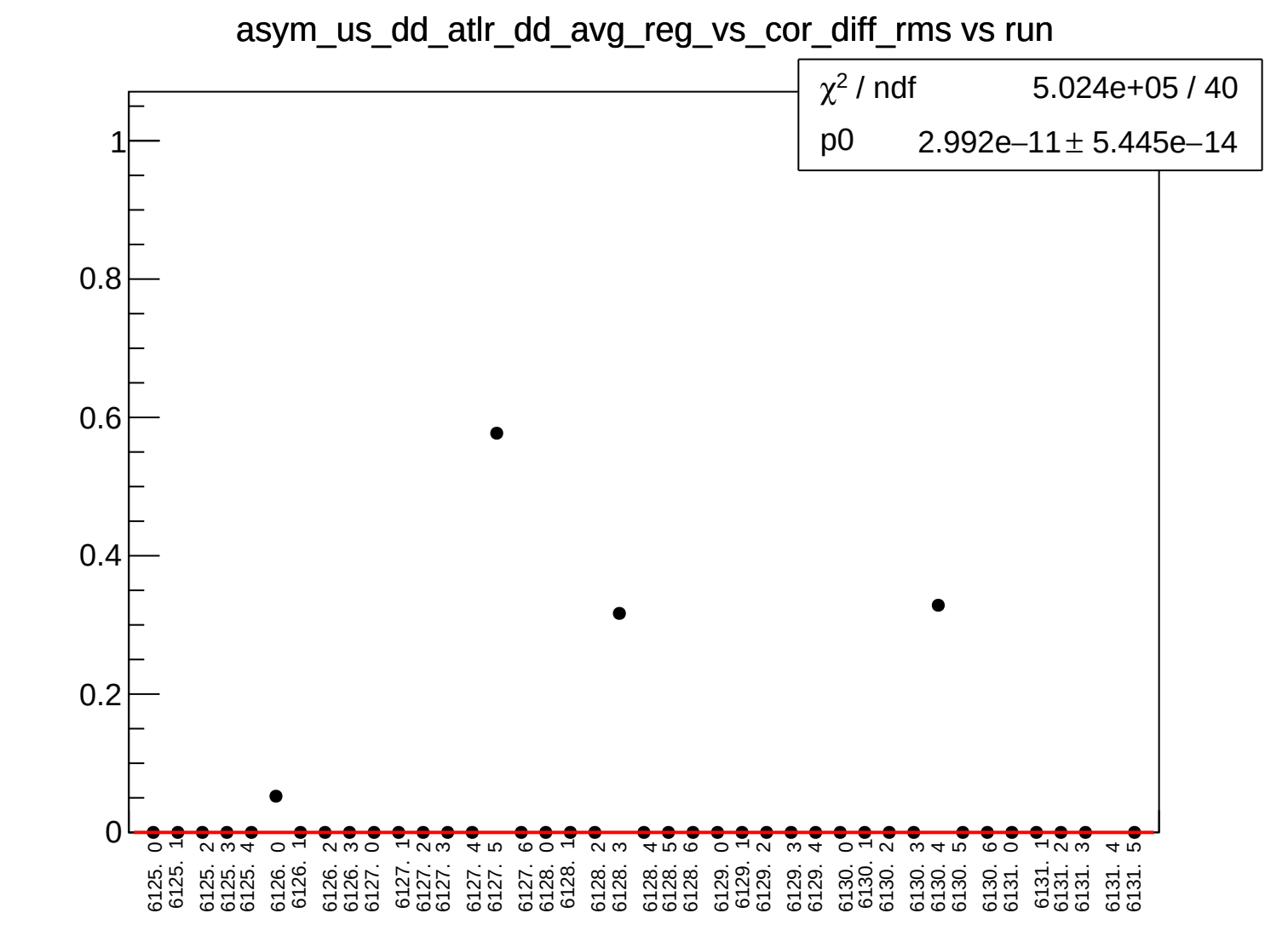

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2433 / 40
p0 1346 ± 1.503
1550
1500
1450
1400
1350
1300
1250
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

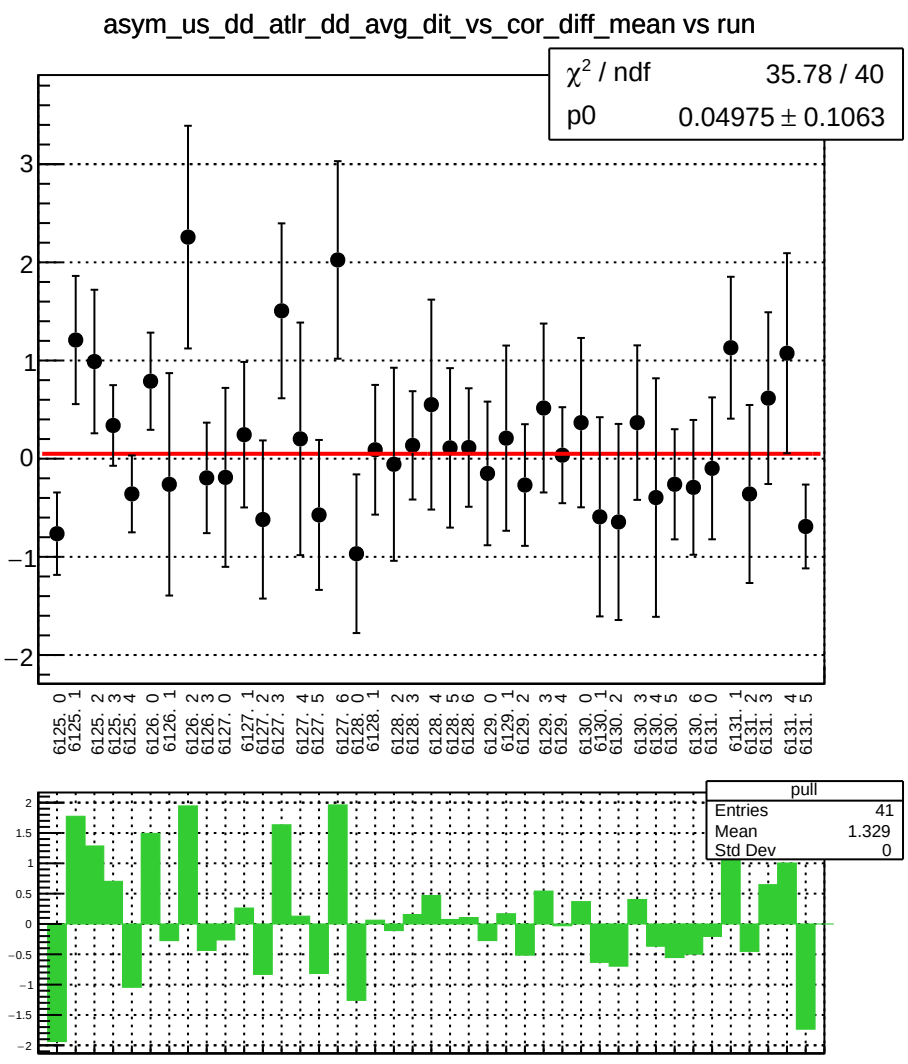

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 42.81 / 40
p0 4263 ± 3520
80000
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −0.6334
Std Dev 5.358
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

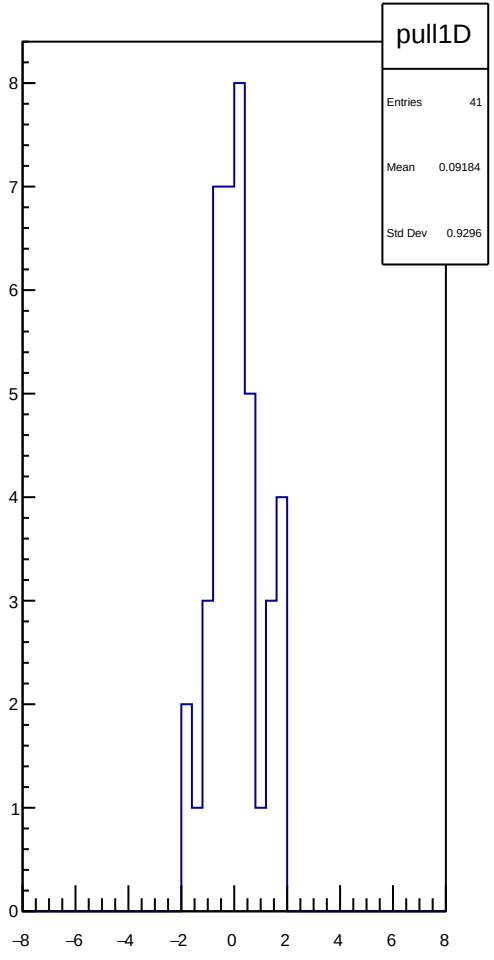

pull1D
Entries 41
Mean 0.02202
Std Dev 1.022
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

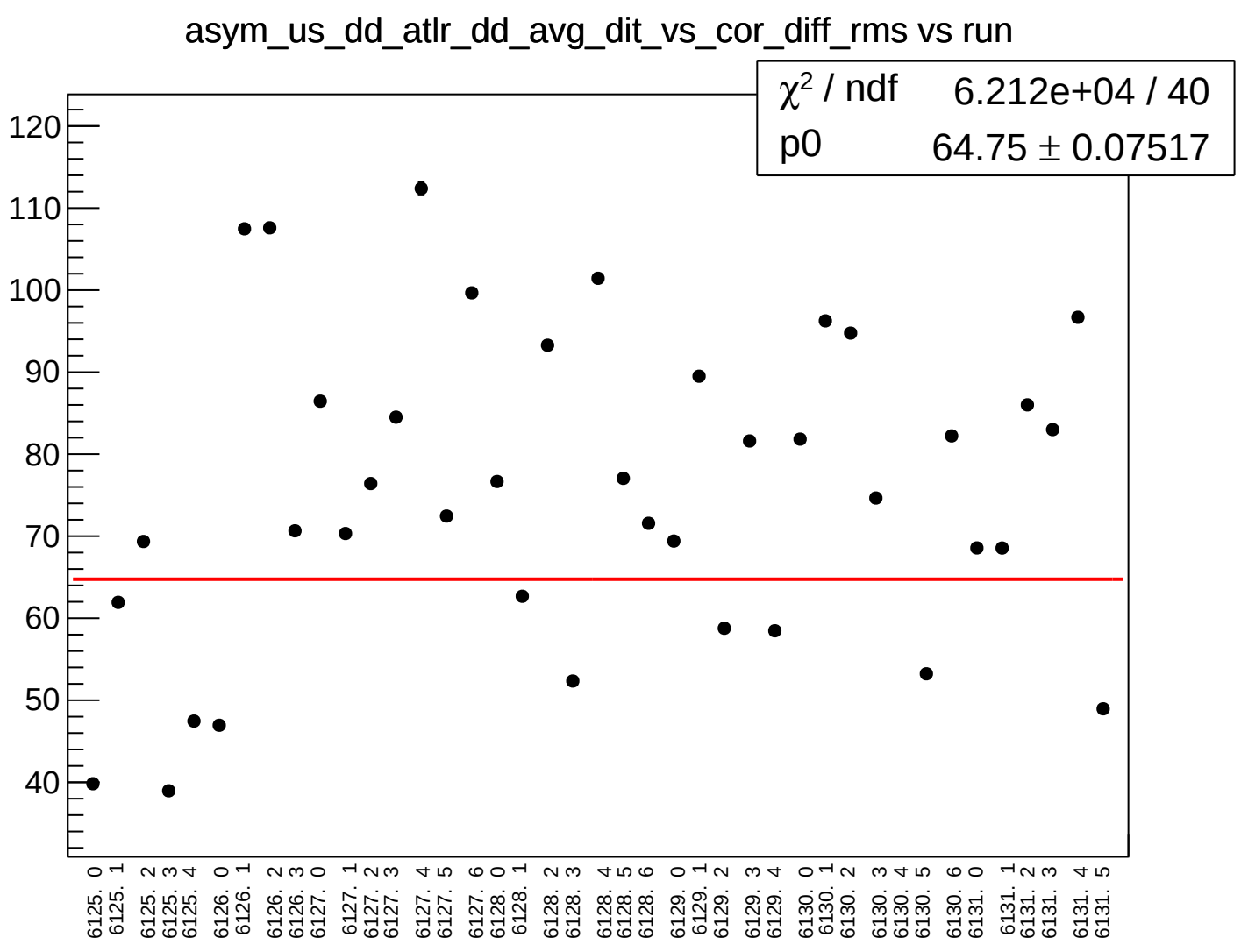

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 347.9 / 40
p0 2231 ± 2.489
2350
2300
2250
2200
2150
2100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

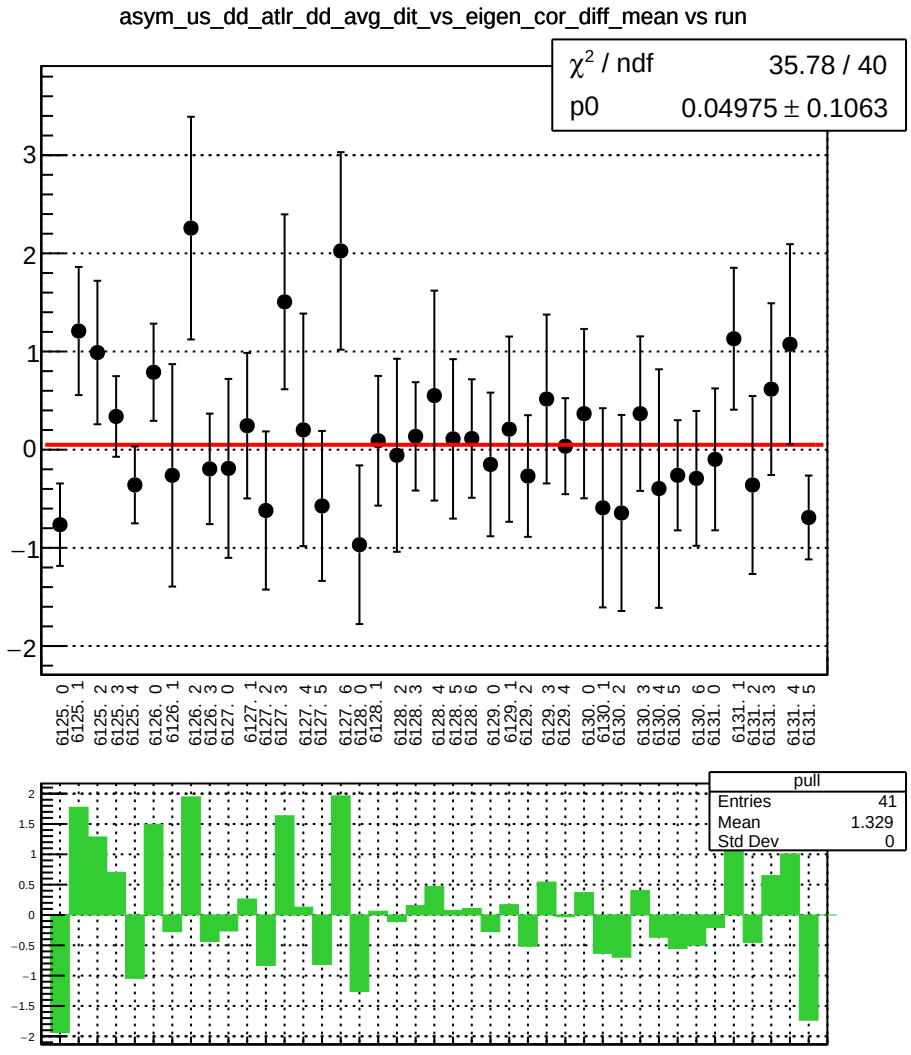

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 36.11 / 40
p0 −5.206e−14 ± 7.701e−14
0.01
0.005
0
−0.005
−0.01
−0.015
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −35.96
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 41
Mean −0.05758
Std Dev 0.9367
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

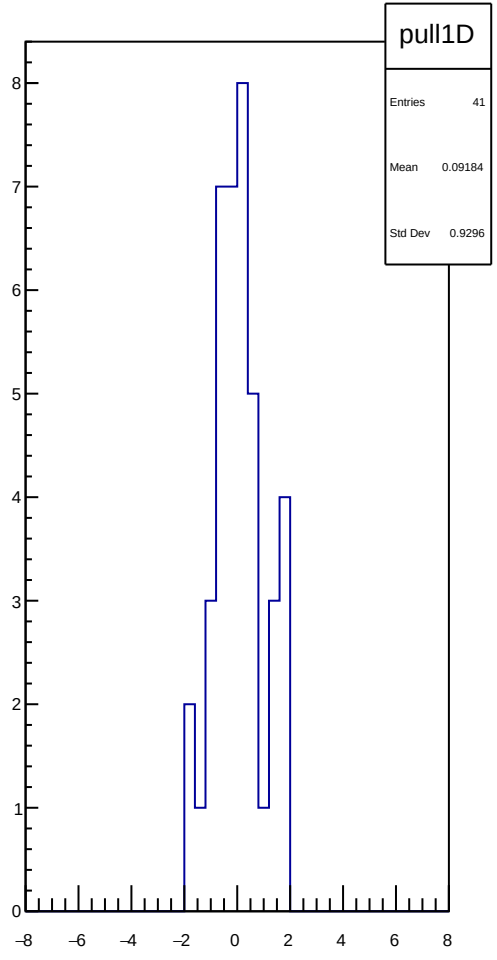

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.024e+05 / 40
p0 2.992e−11 ± 5.445e−14
1
0.8
0.6
0.4
0.2
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

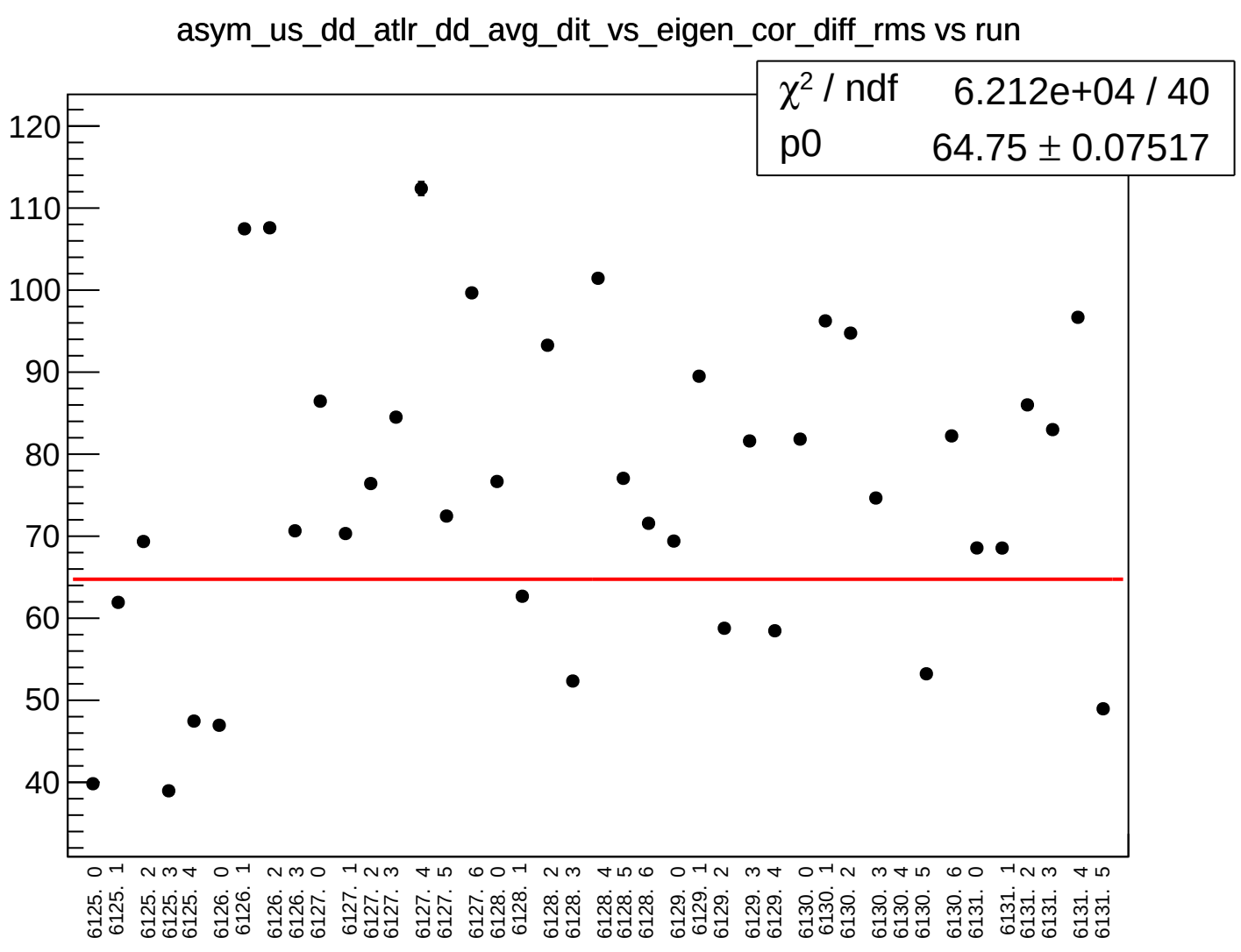

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 35.78 / 40
p0 0.04975 ± 0.1063
pull
Entries 41
Mean 1.329
Std Dev 0

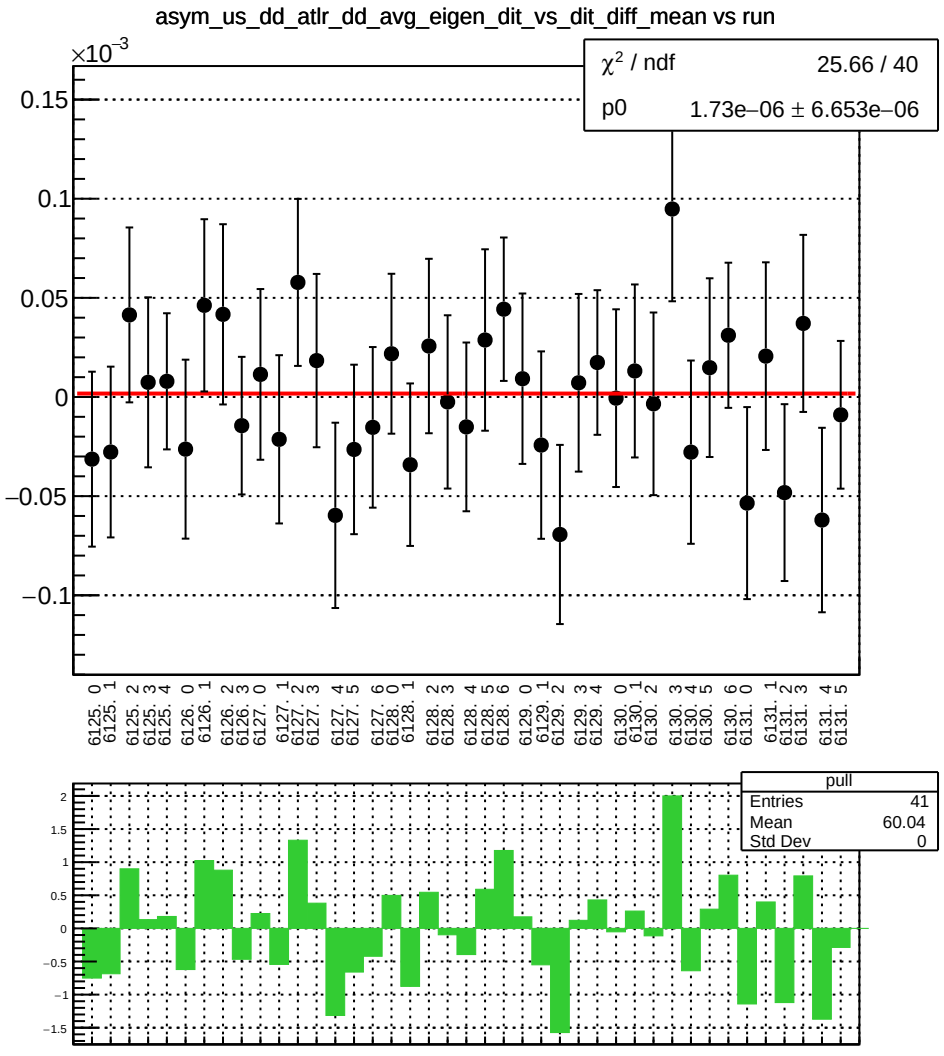

pull1D
Entries 41
Mean 0.09184
Std Dev 0.9296

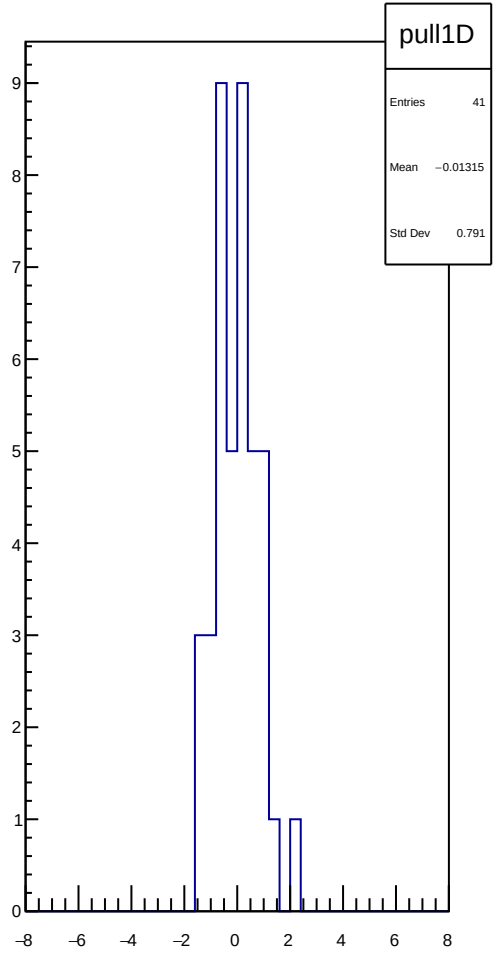

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.212e+04 / 40
p0 64.75 ± 0.07517
120
110
100
90
80
70
60
50
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

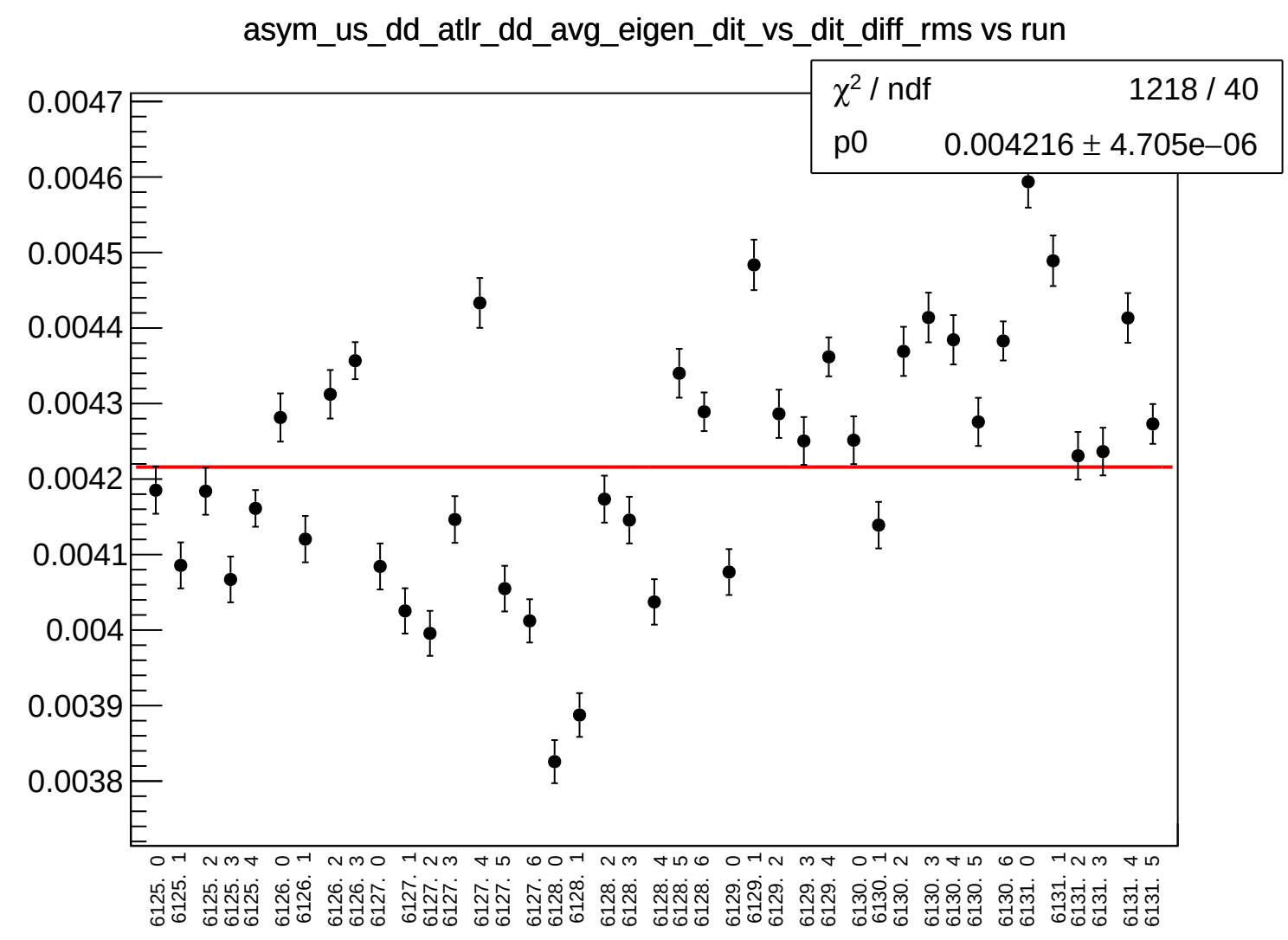

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.78 / 40
p0 0.04975 ± 0.1063
pull
Entries 41
Mean 1.329
Std Dev 0

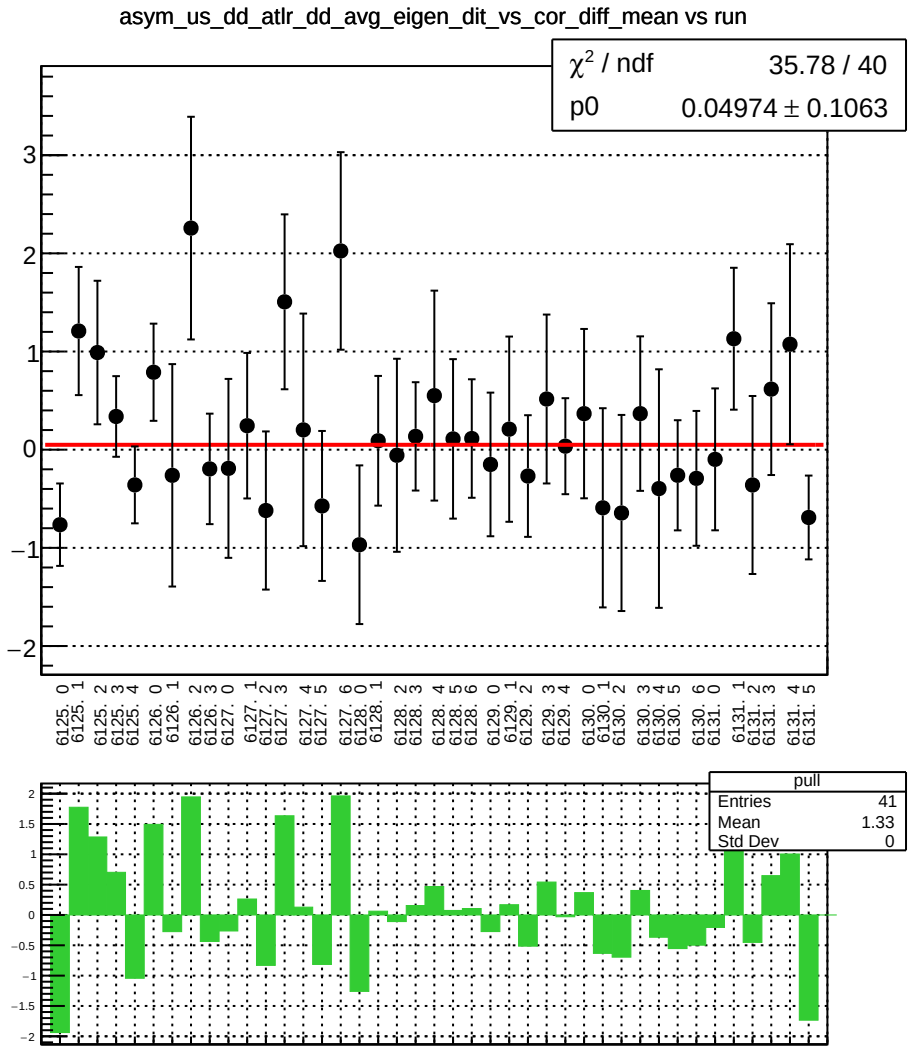

pull1D
Entries 41
Mean 0.09184
Std Dev 0.9296

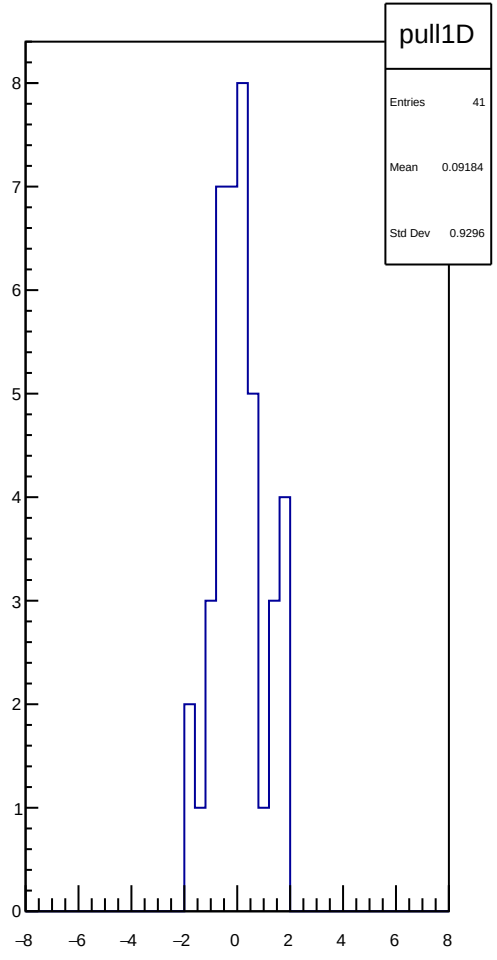

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.212e+04 / 40
p0 64.75 ± 0.07517
120
110
100
90
80
70
60
50
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

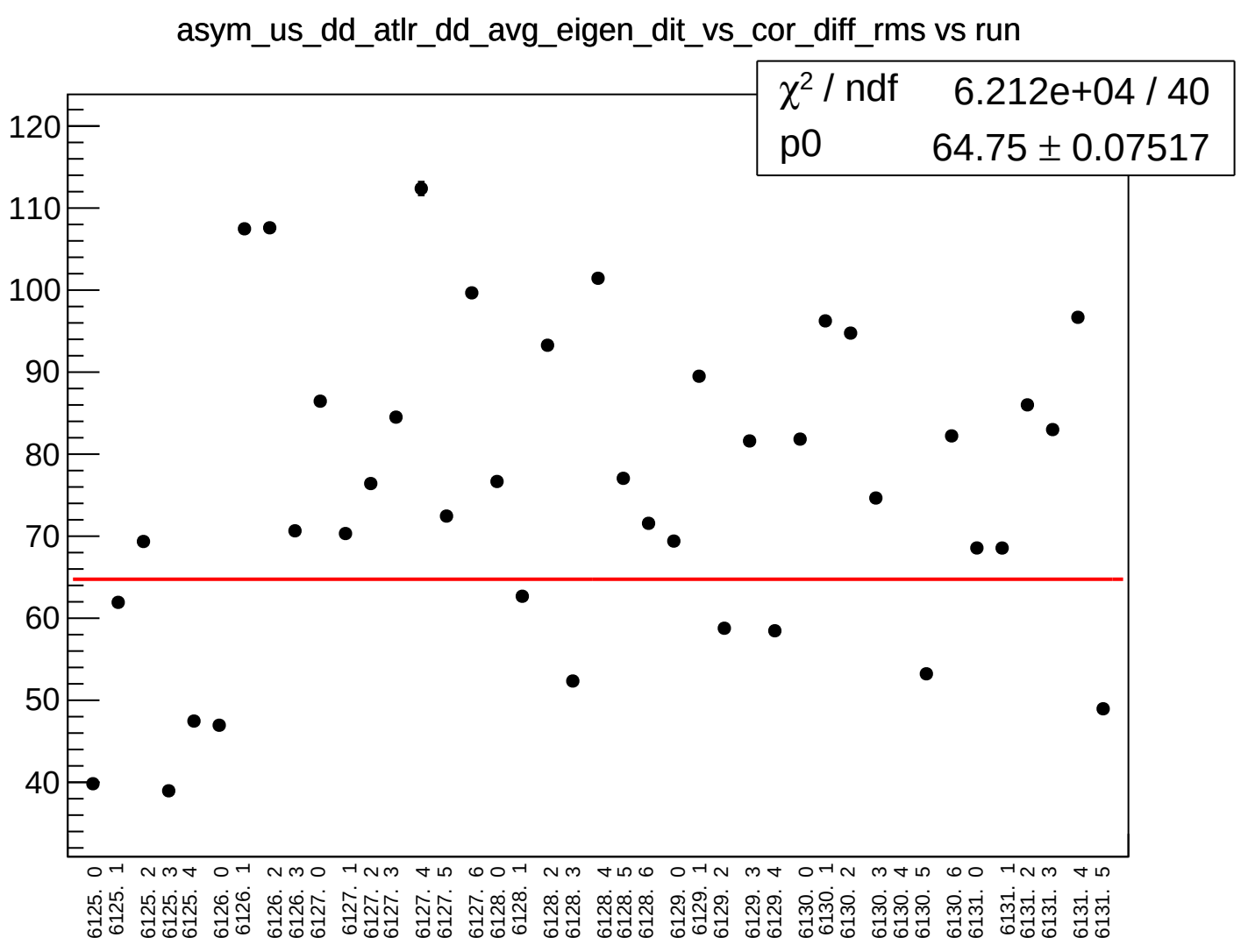

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 25.66 / 40
p0 1.73e−06 ± 6.653e−06
0.15
0.1
0.05
0
−0.05
−0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 60.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

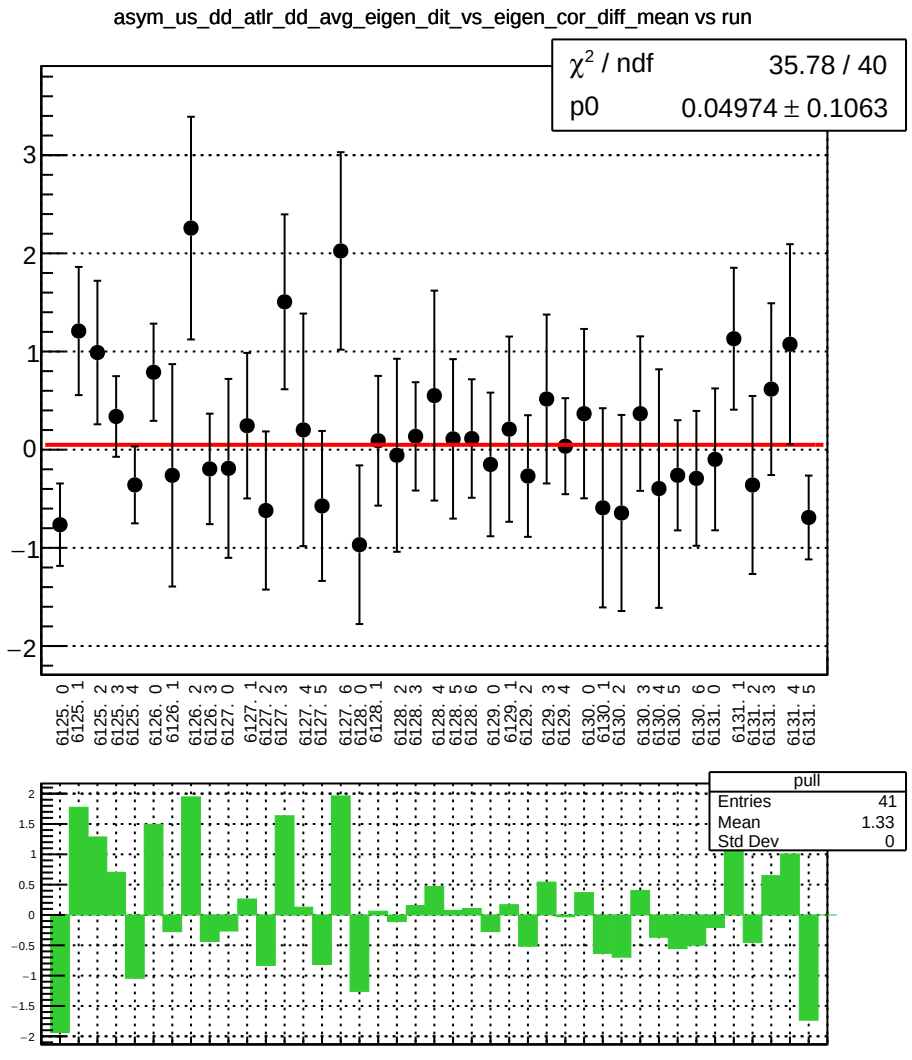

pull1D
Entries 41
Mean −0.01315
Std Dev 0.791
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

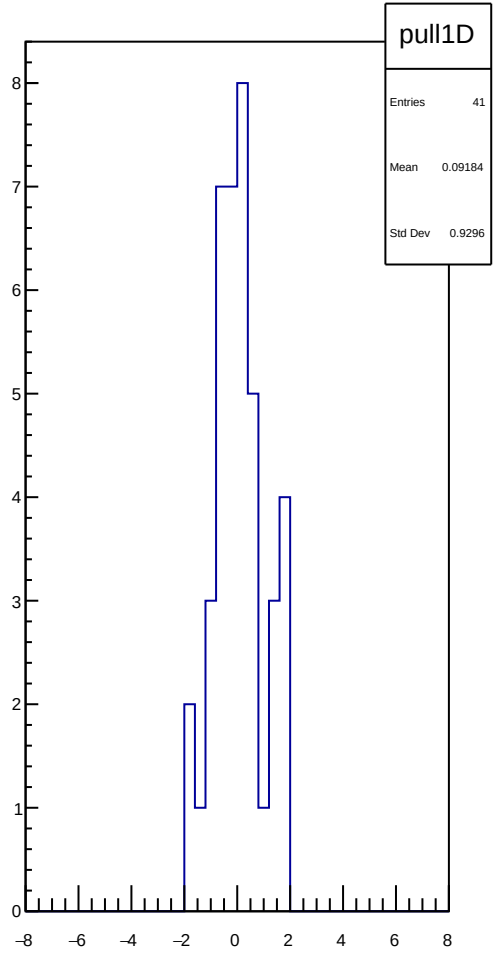

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1218 / 40
p0 0.004216 ± 4.705e−06
0.0047
0.0046
0.0045
0.0044
0.0043
0.0042
0.0041
0.004
0.0039
0.0038
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

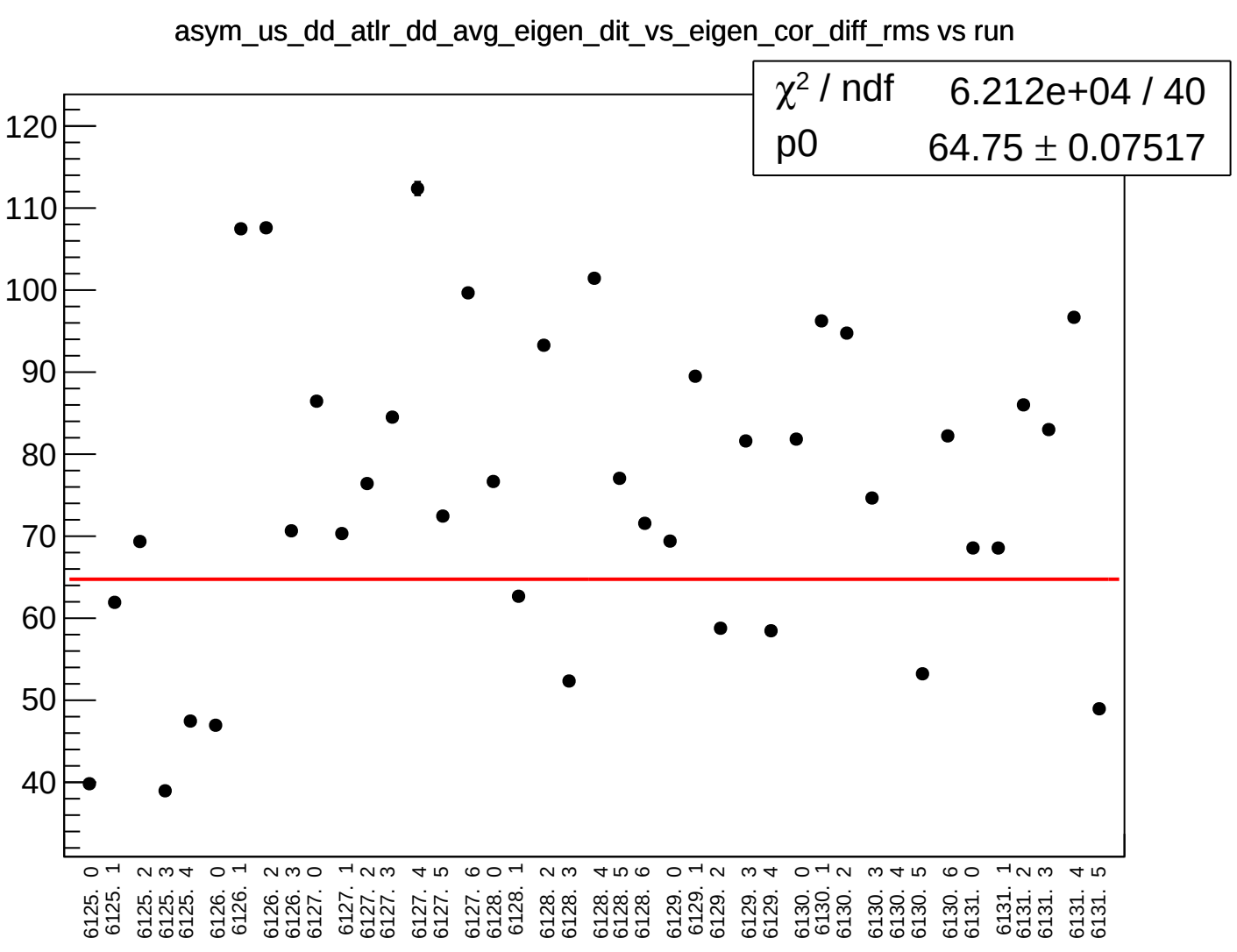

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.78 / 40
p0 0.04974 ± 0.1063
pull
Entries 41
Mean 1.33
Std Dev 0


pull1D
Entries 41
Mean 0.09184
Std Dev 0.9296


asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.212e+04 / 40
p0 64.75 ± 0.07517
120
110
100
90
80
70
60
50
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.78 / 40
p0 0.04974 ± 0.1063
pull
Entries 41
Mean 1.33
Std Dev 0


pull1D
Entries 41
Mean 0.09184
Std Dev 0.9296


asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.212e+04 / 40
p0 64.75 ± 0.07517
120
110
100
90
80
70
60
50
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
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6128. 5
6128. 6
6129. 0
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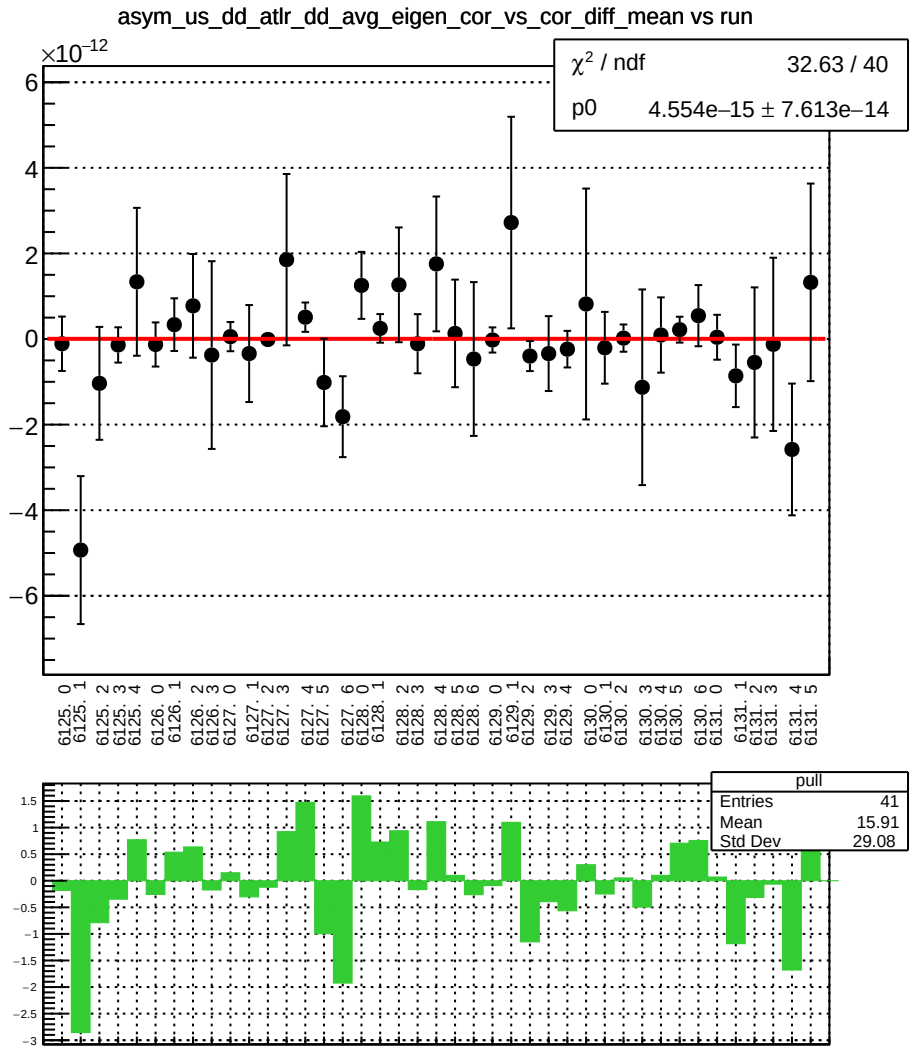
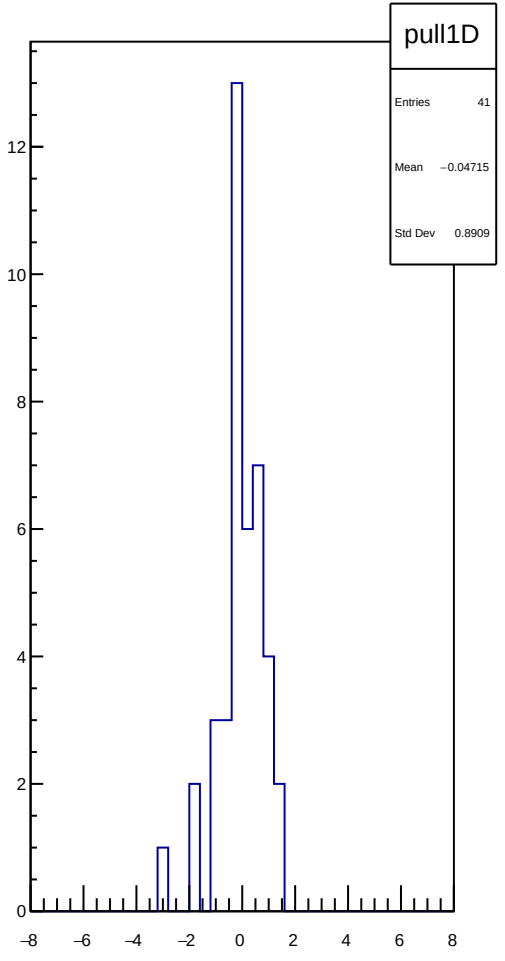
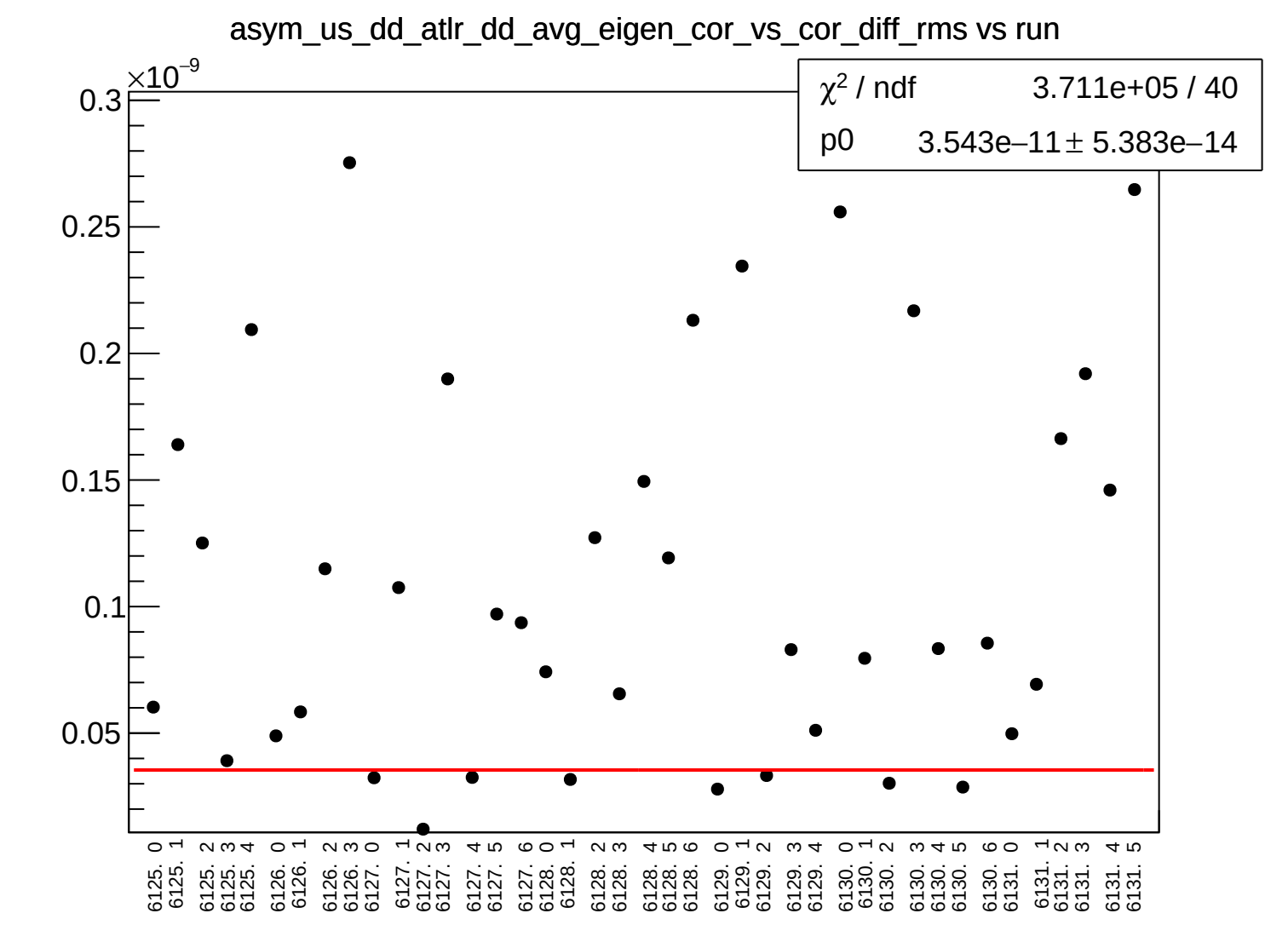
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.63 / 40
p0 4.554e−15 ± 7.613e−14
pull
Entries 41
Mean 15.91
Std Dev 29.08


pull1D
Entries 41
Mean −0.04715
Std Dev 0.8909


asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.711e+05 / 40
p0 3.543e−11 ± 5.383e−14
0.3
0.25
0.2
0.15
0.1
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
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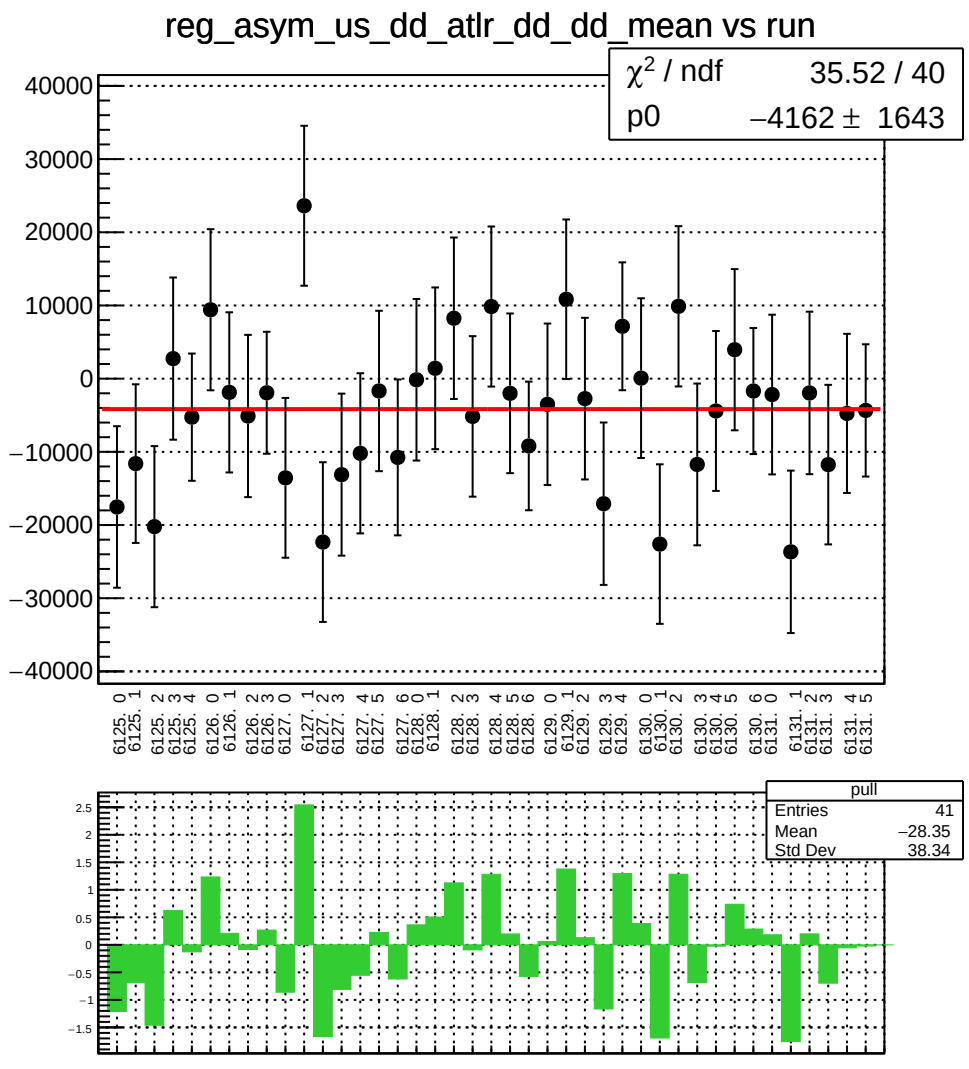
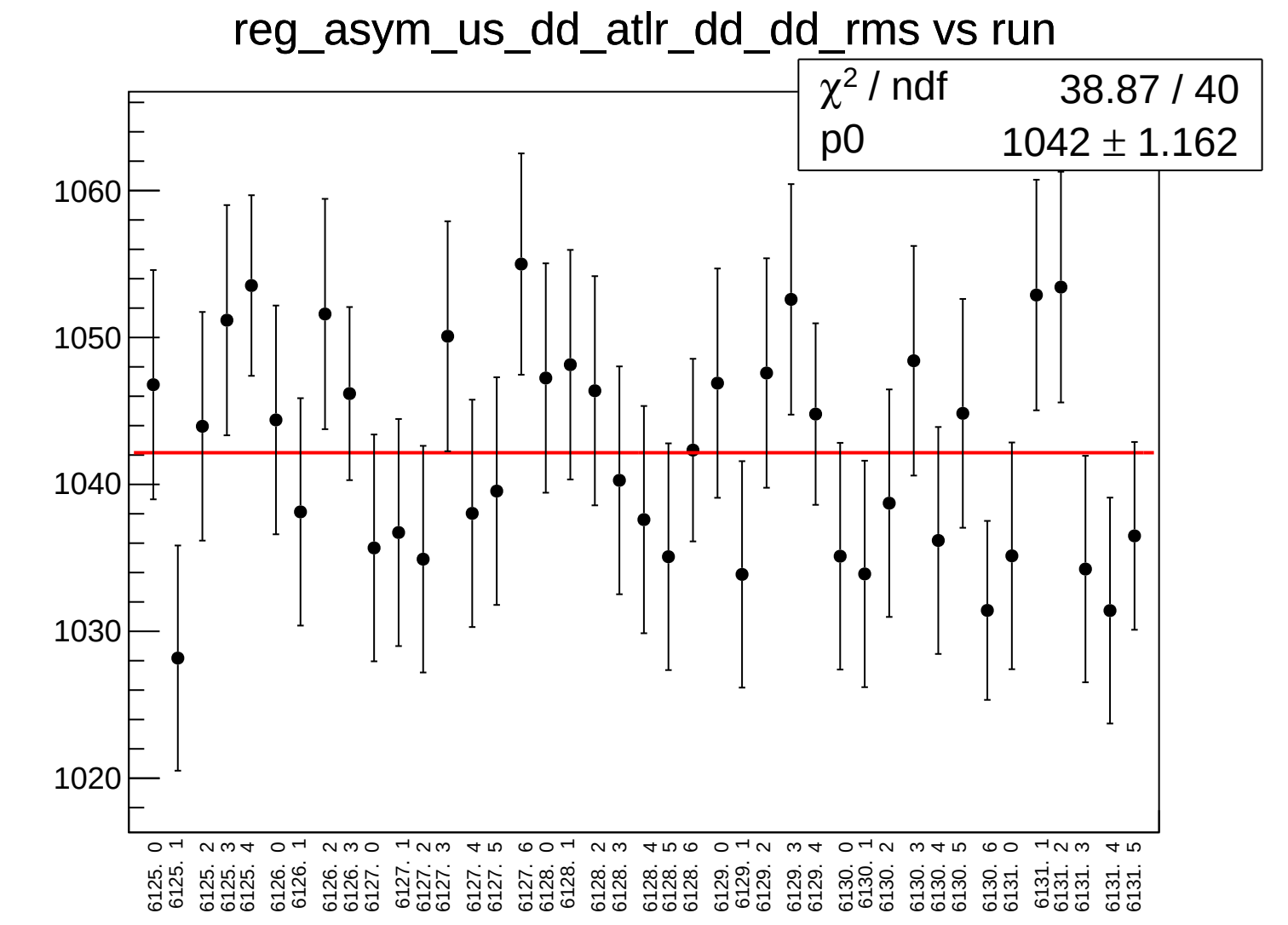
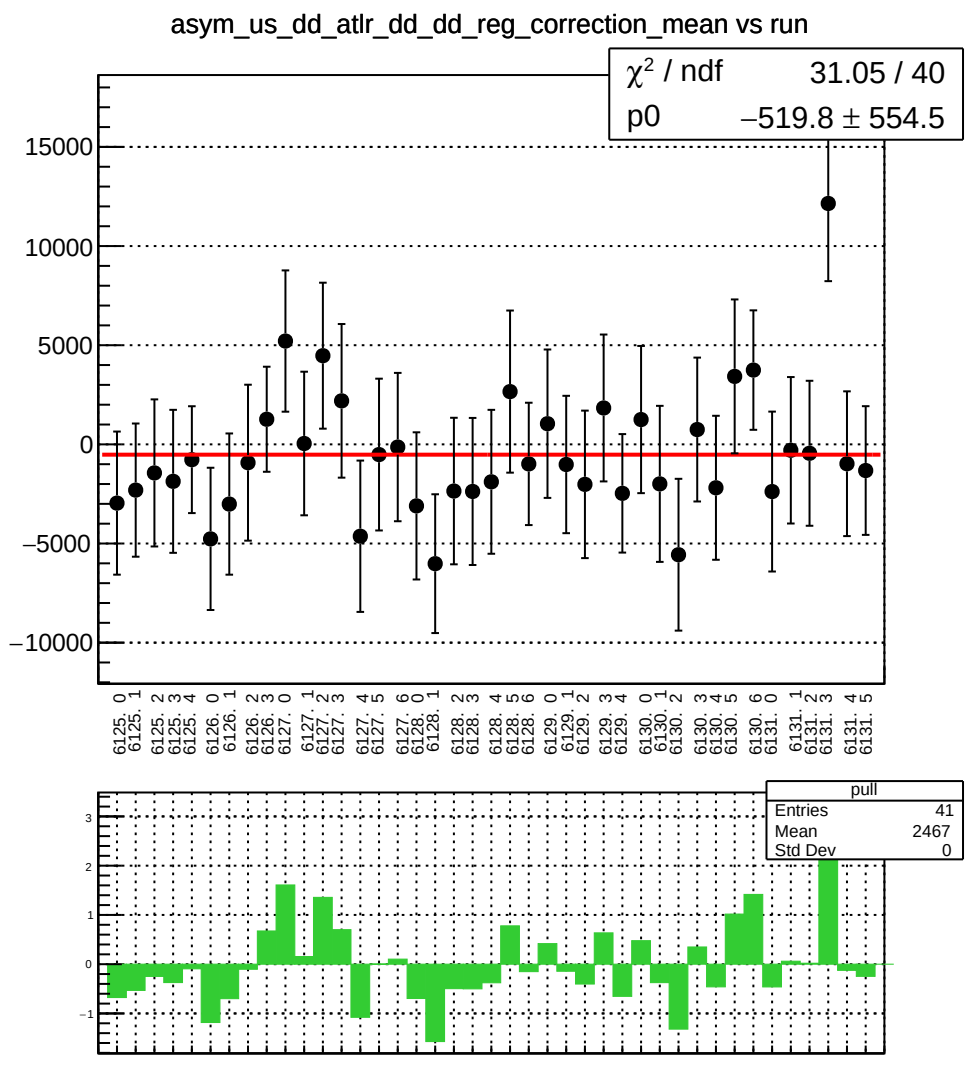
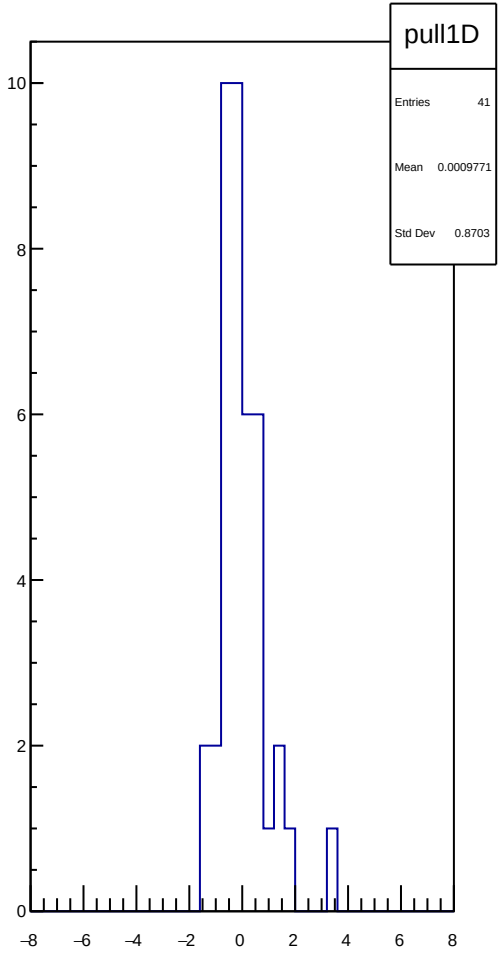
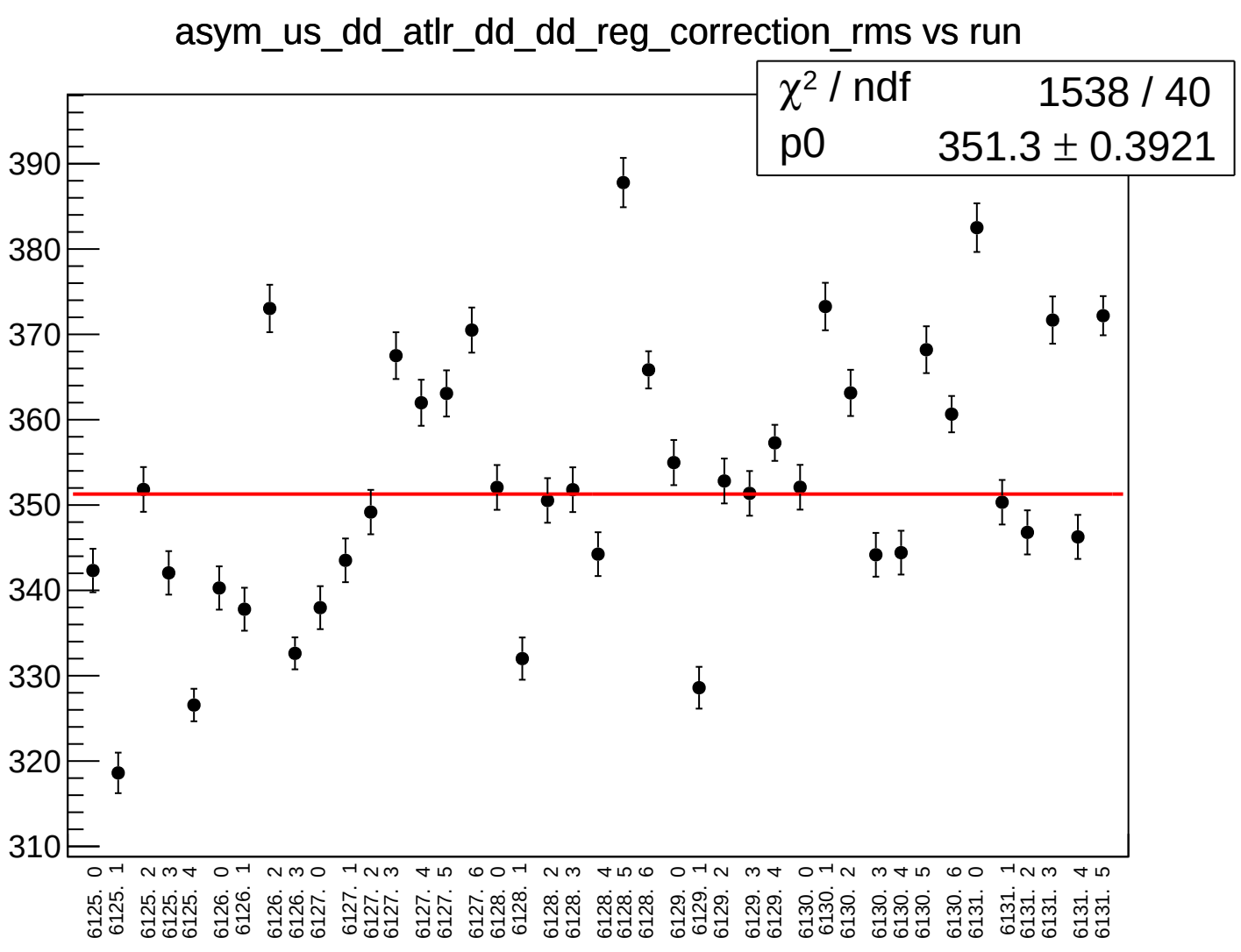
6131. 4
6131. 5

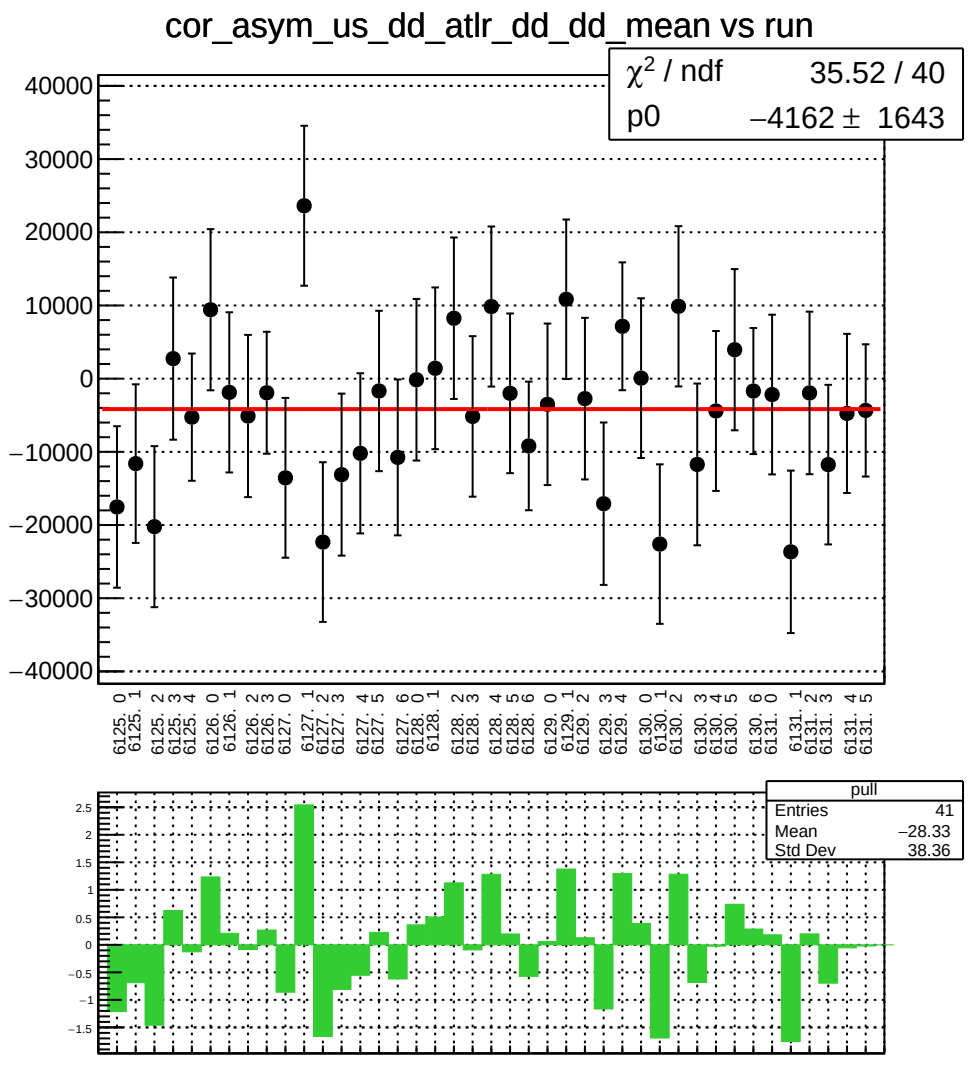

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 35.52 / 40
p0 −4162 ± 1643
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −28.35
Std Dev 38.34
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.007713
Std Dev 0.9307
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

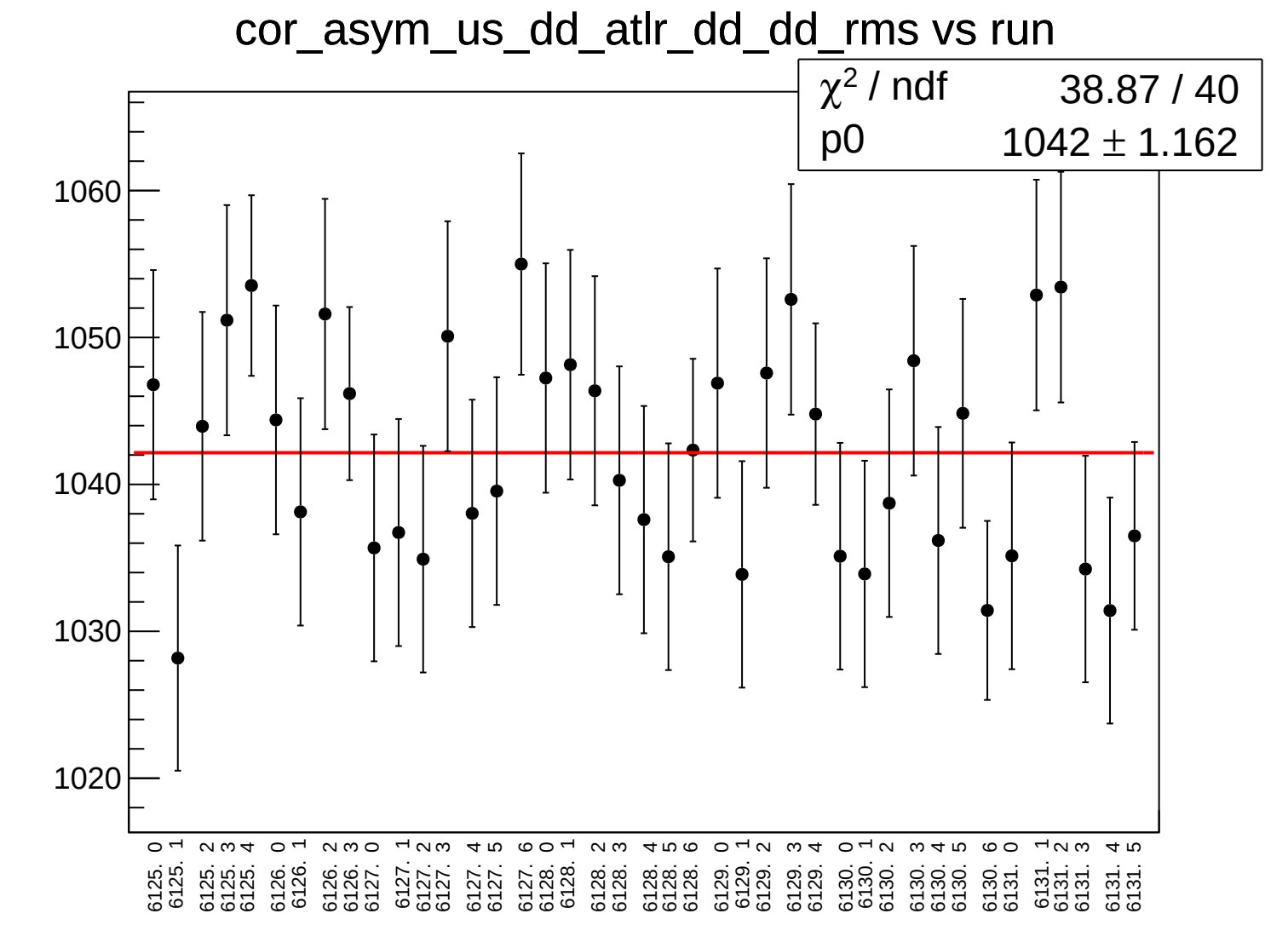

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 38.87 / 40
p0 1042 ± 1.162
1060
1050
1040
1030
1020
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 31.05 / 40
p0 −519.8 ± 554.5
15000
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 2467
Std Dev 0
3
2
1
0
−1


pull1D
Entries 41
Mean 0.0009771
Std Dev 0.8703
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 1538 / 40
p0 351.3 ± 0.3921
390
380
370
360
350
340
330
320
310
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 35.52 / 40
p0 −4162 ± 1643
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −28.33
Std Dev 38.36
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.007713
Std Dev 0.9307
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 38.87 / 40
p0 1042 ± 1.162
1060
1050
1040
1030
1020
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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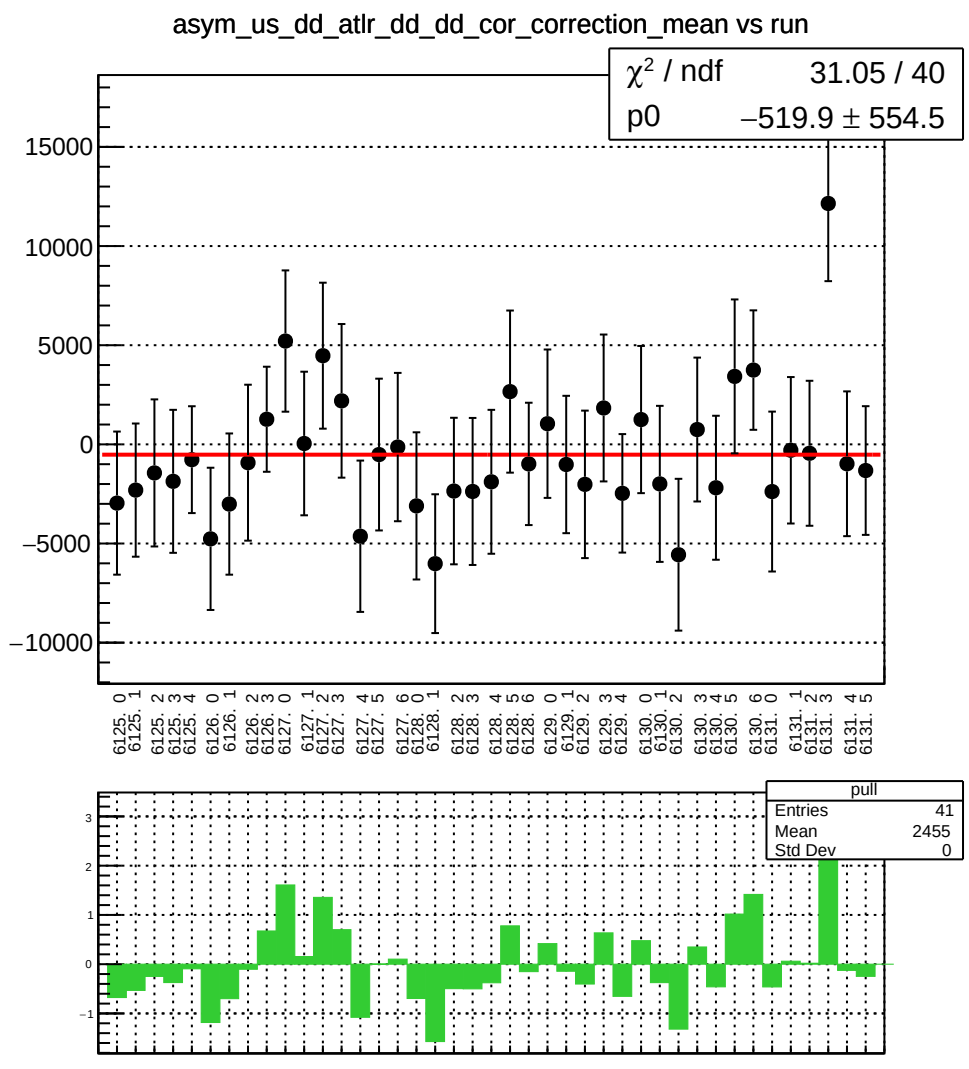
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 31.05 / 40
p0 −519.9 ± 554.5
15000
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
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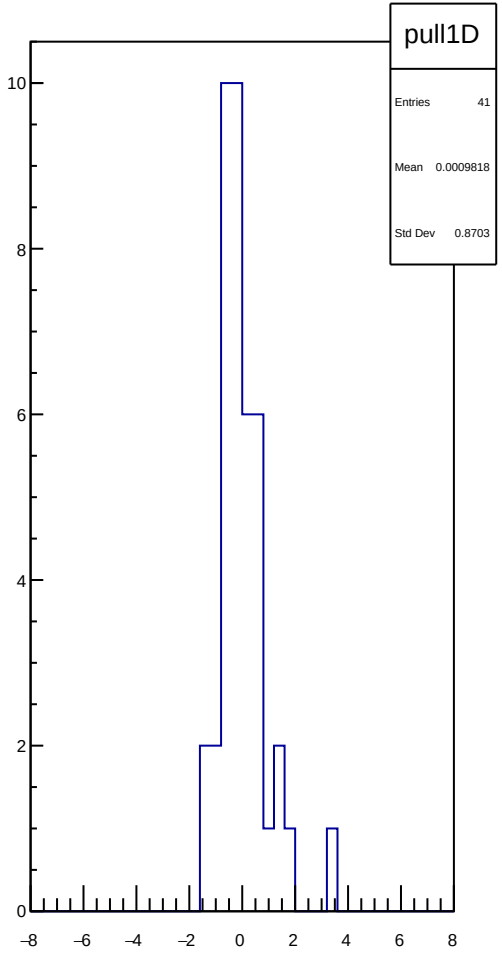
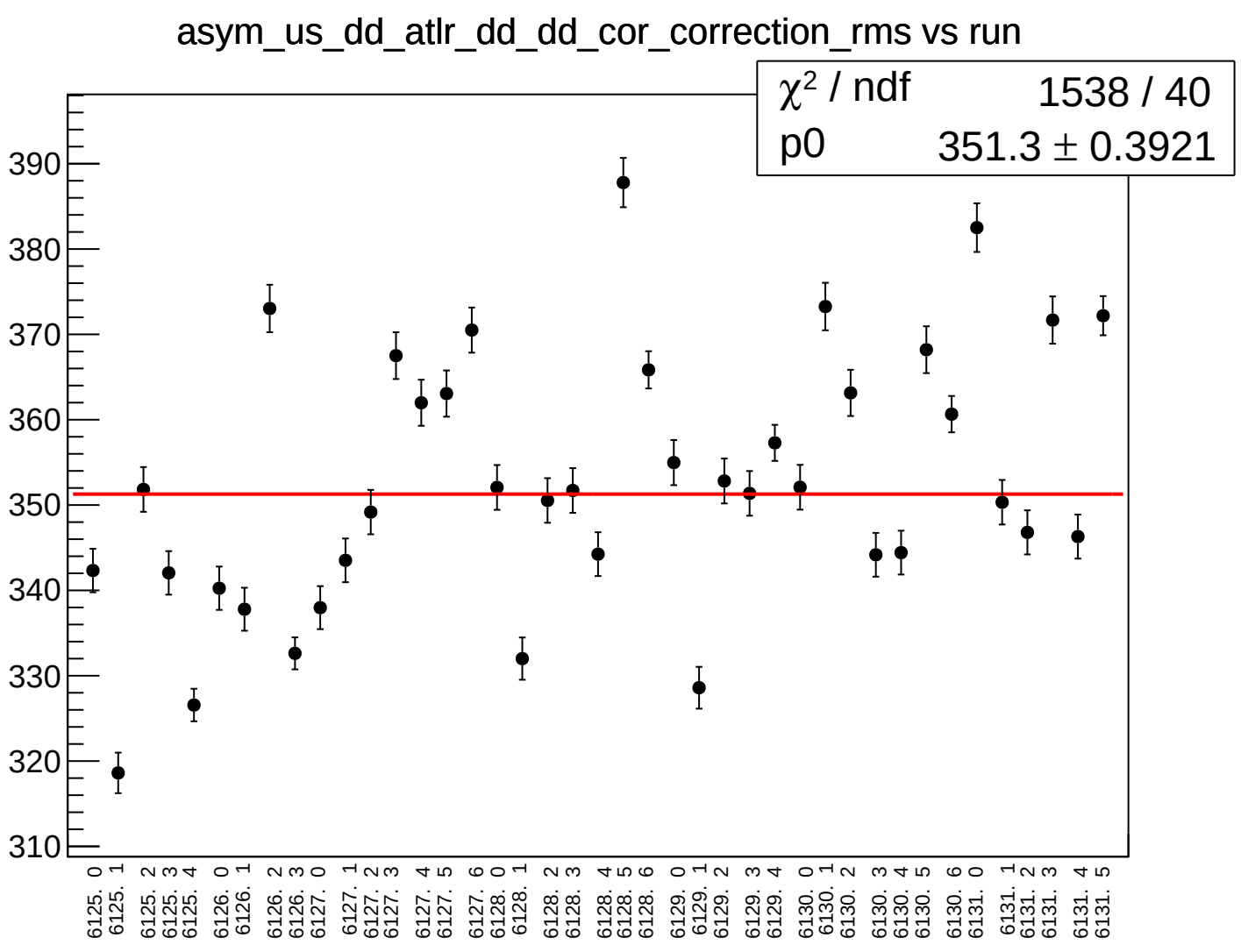
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 2455
Std Dev 0
3
2
1
0
−1


pull1D
Entries 41
Mean 0.0009818
Std Dev 0.8703
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 1538 / 40
p0 351.3 ± 0.3921
390
380
370
360
350
340
330
320
310
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
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6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
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6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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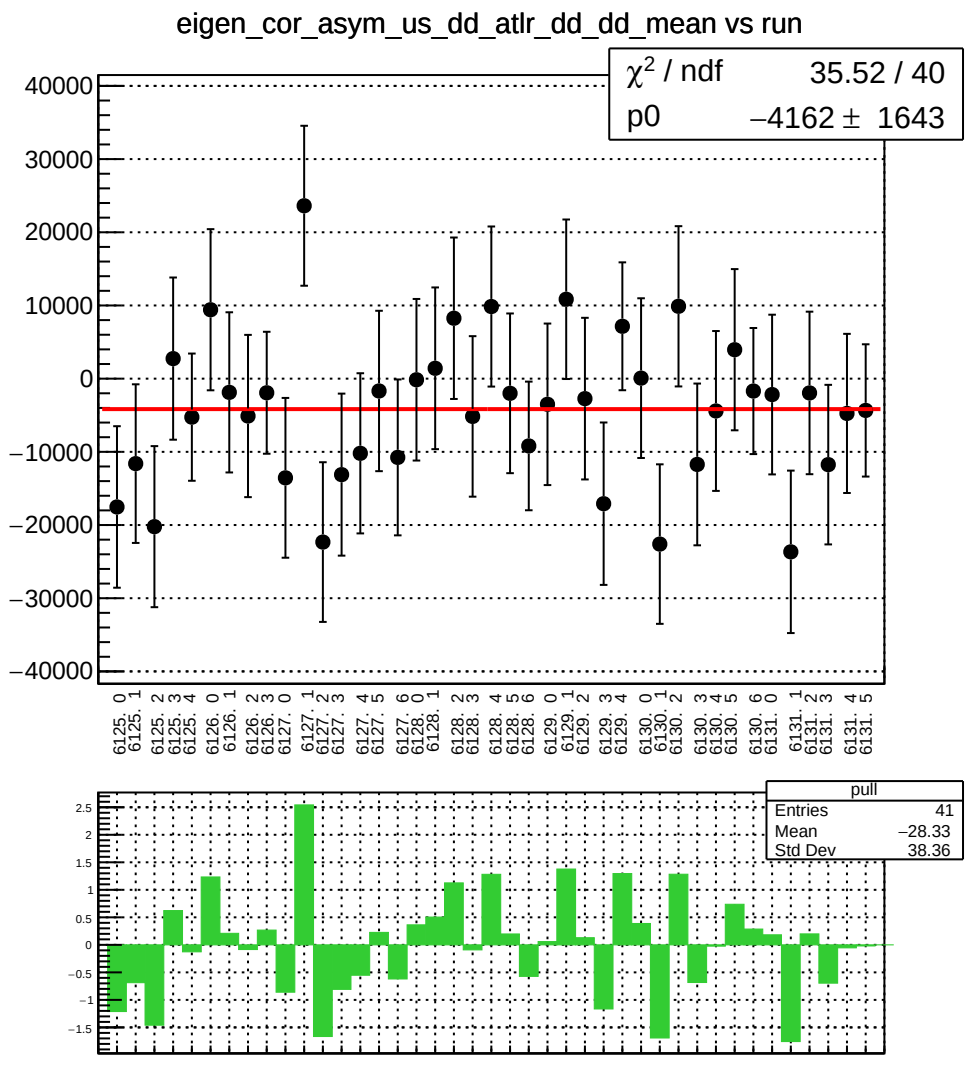
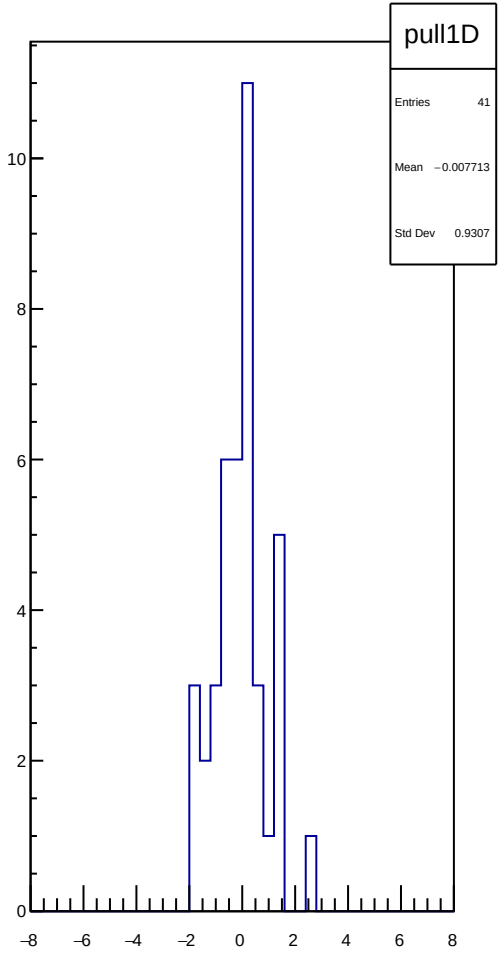
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 35.52 / 40
p0 −4162 ± 1643
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −28.33
Std Dev 38.36
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.007713
Std Dev 0.9307
10
8
6
4
2
0
−8
−6
−4
−2
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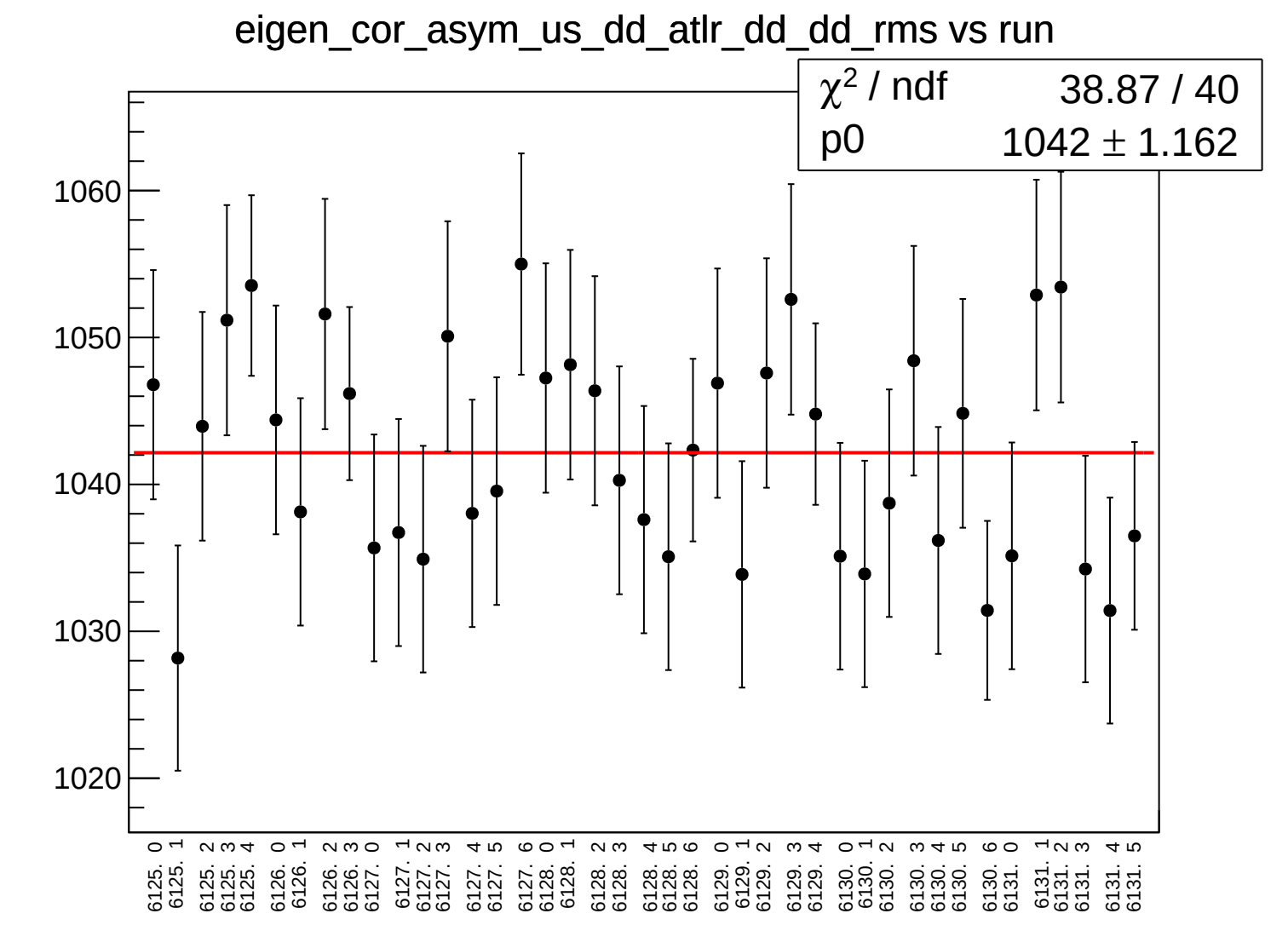
2
4
6
8


eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 38.87 / 40
p0 1042 ± 1.162
1060
1050
1040
1030
1020
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
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6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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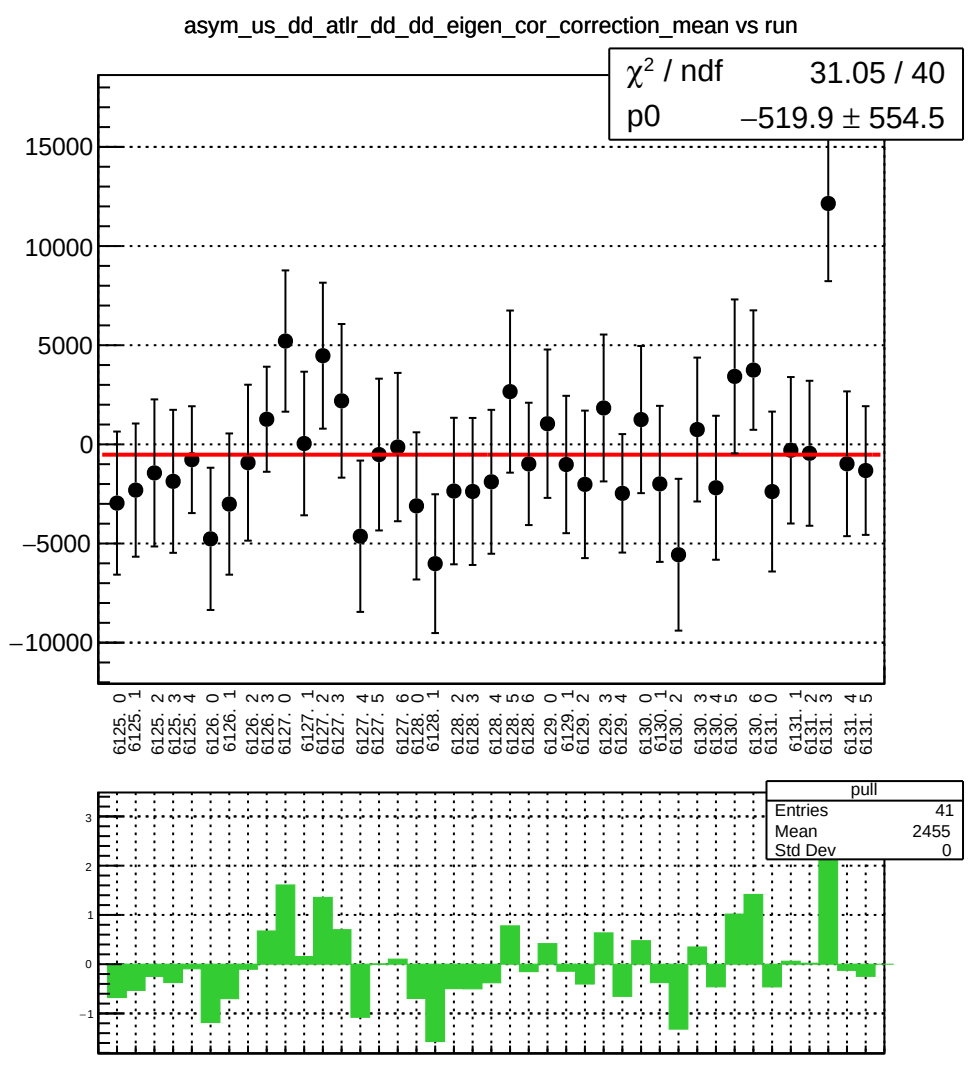
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 31.05 / 40
p0 −519.9 ± 554.5
15000
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
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6129. 0
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6129. 2
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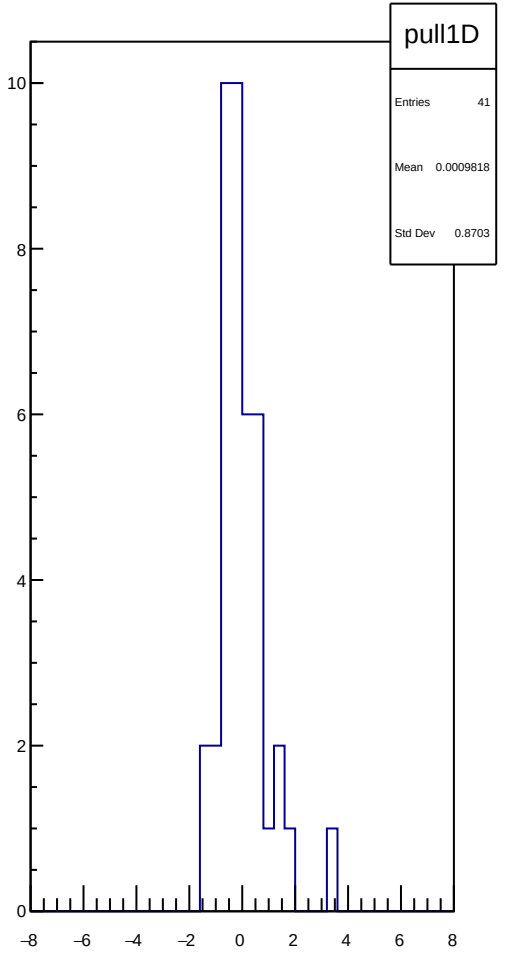
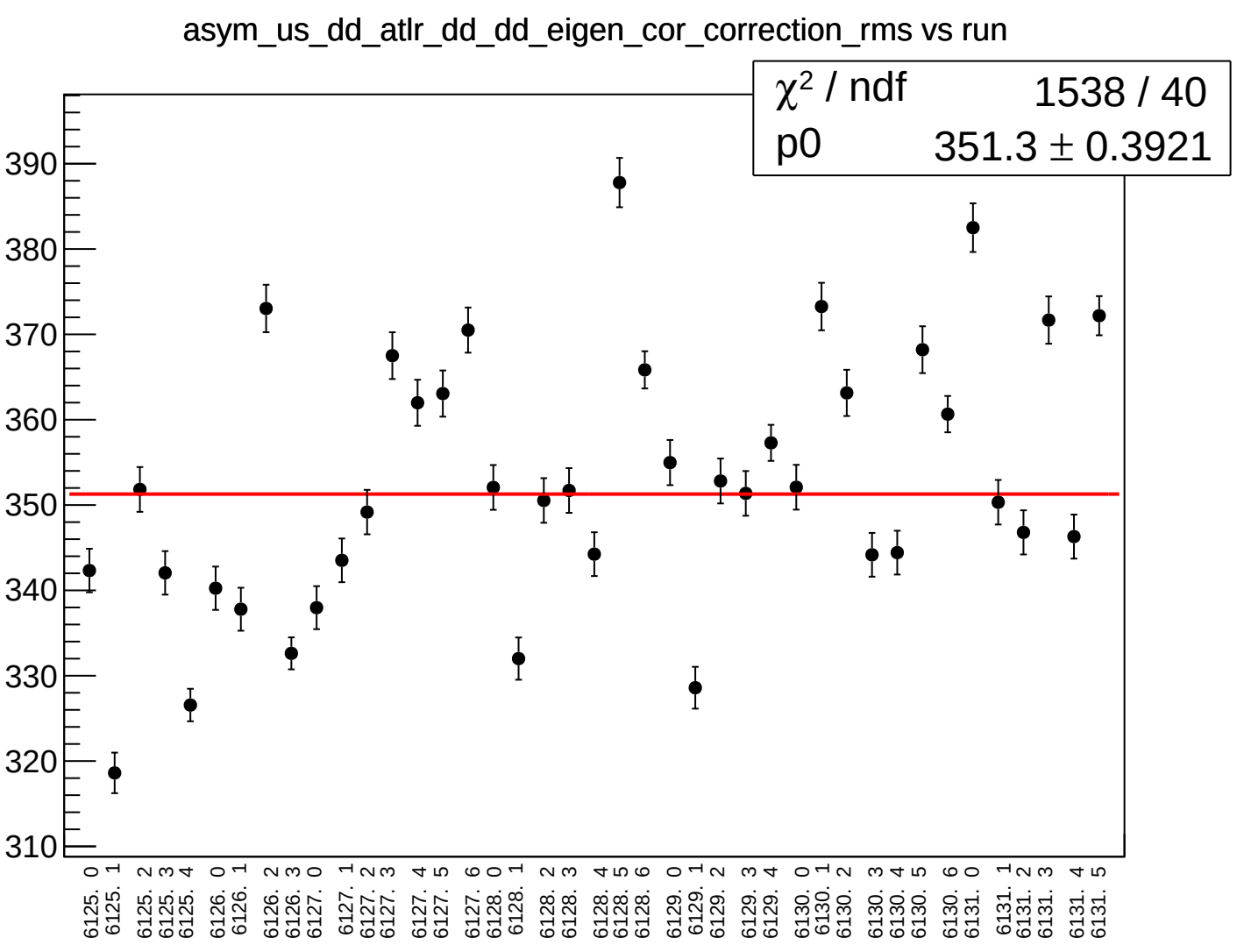
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 2455
Std Dev 0
3
2
1
0
−1


pull1D
Entries 41
Mean 0.0009818
Std Dev 0.8703
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1538 / 40
p0 351.3 ± 0.3921
390
380
370
360
350
340
330
320
310
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
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6127. 1
6127. 2
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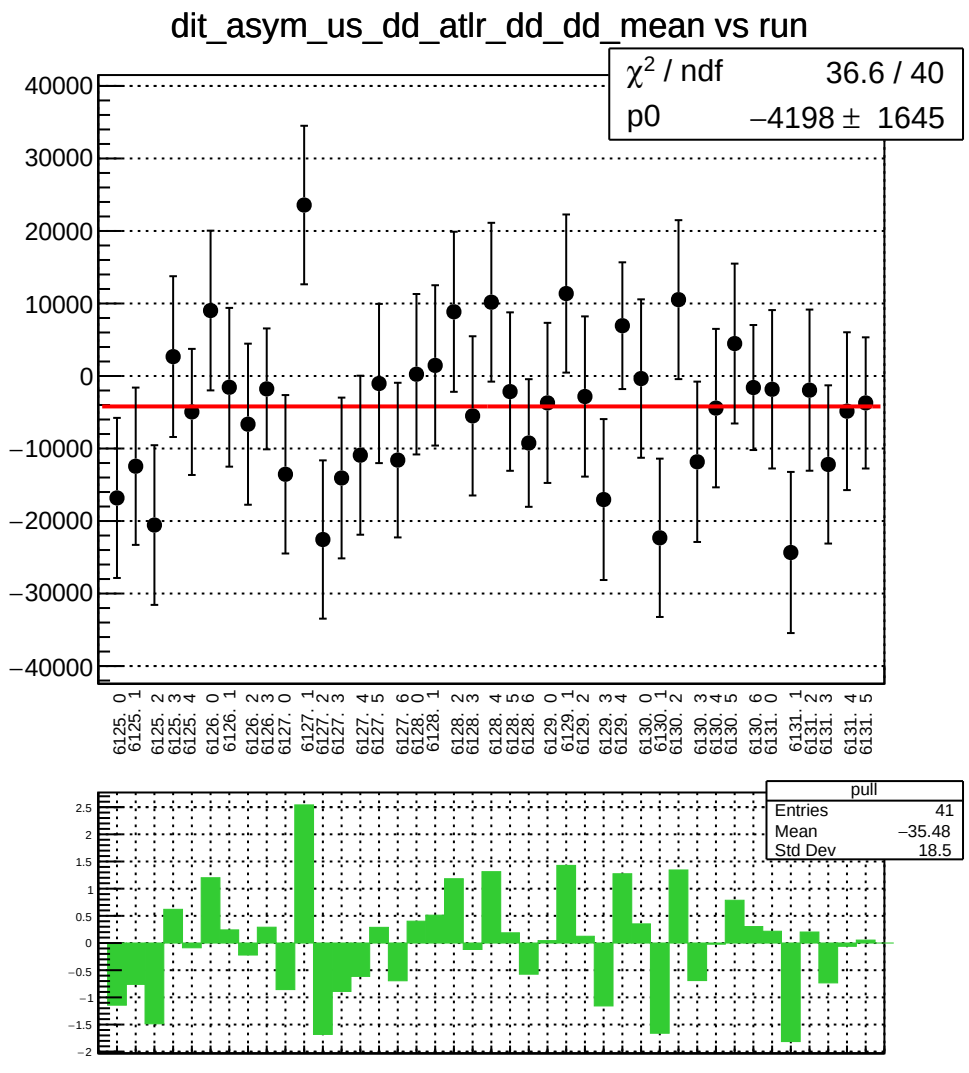
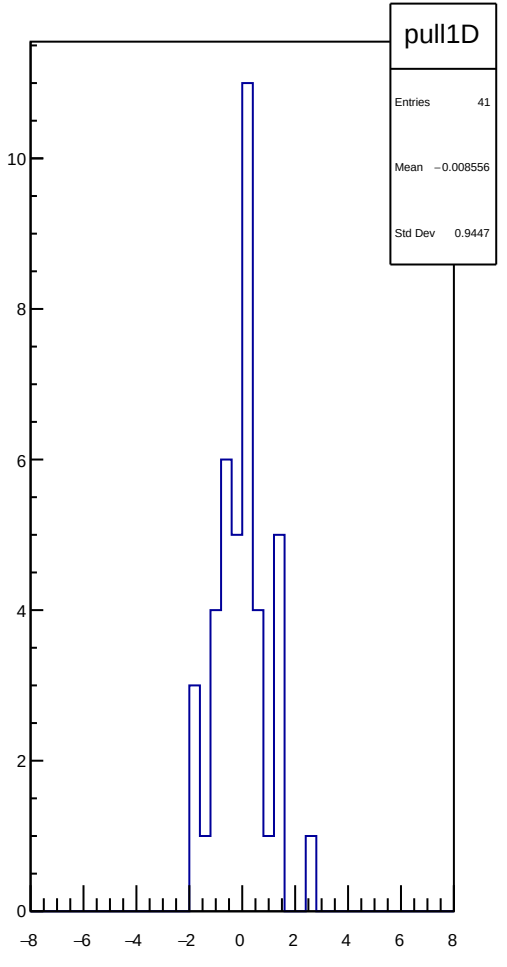
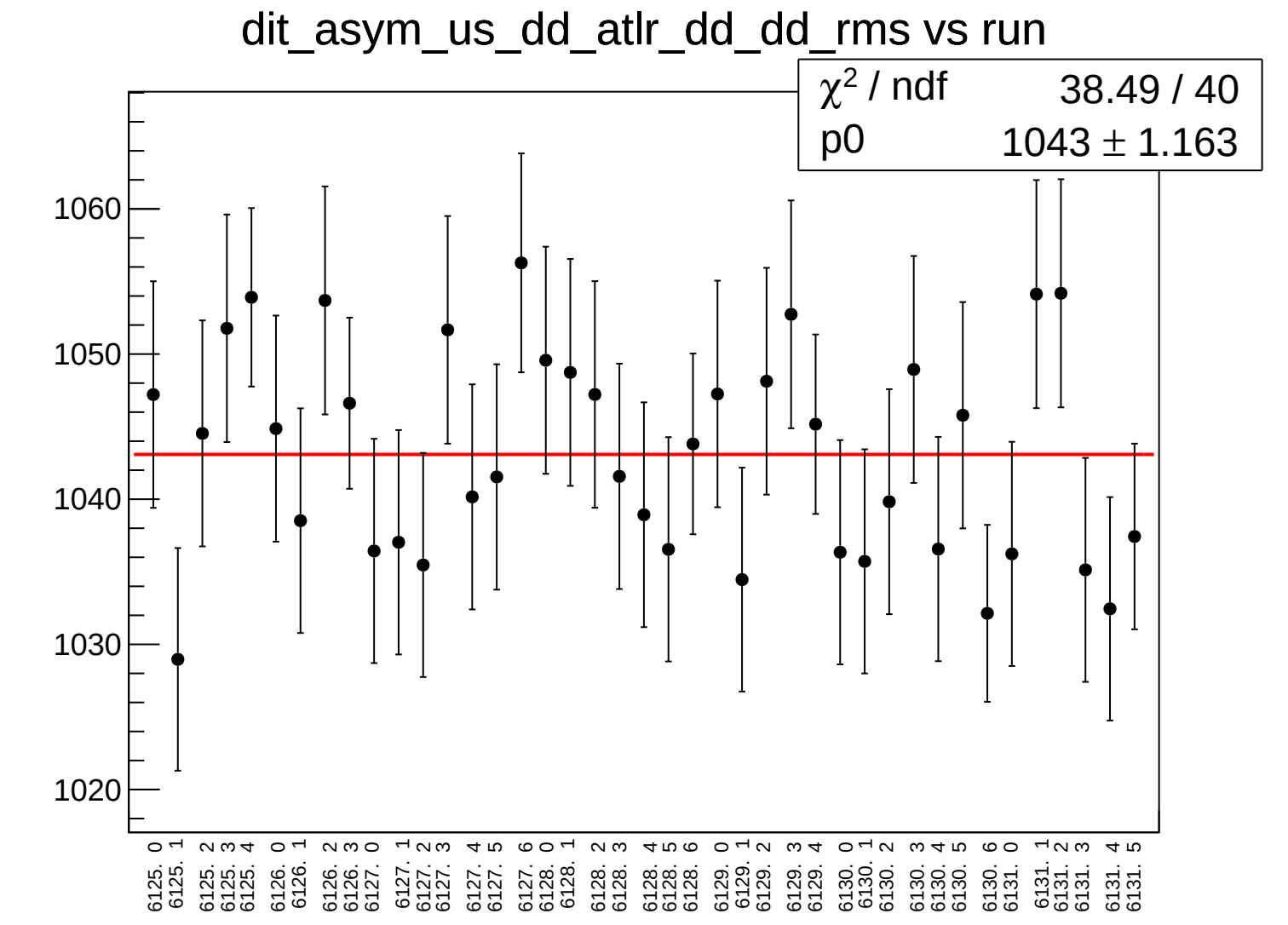
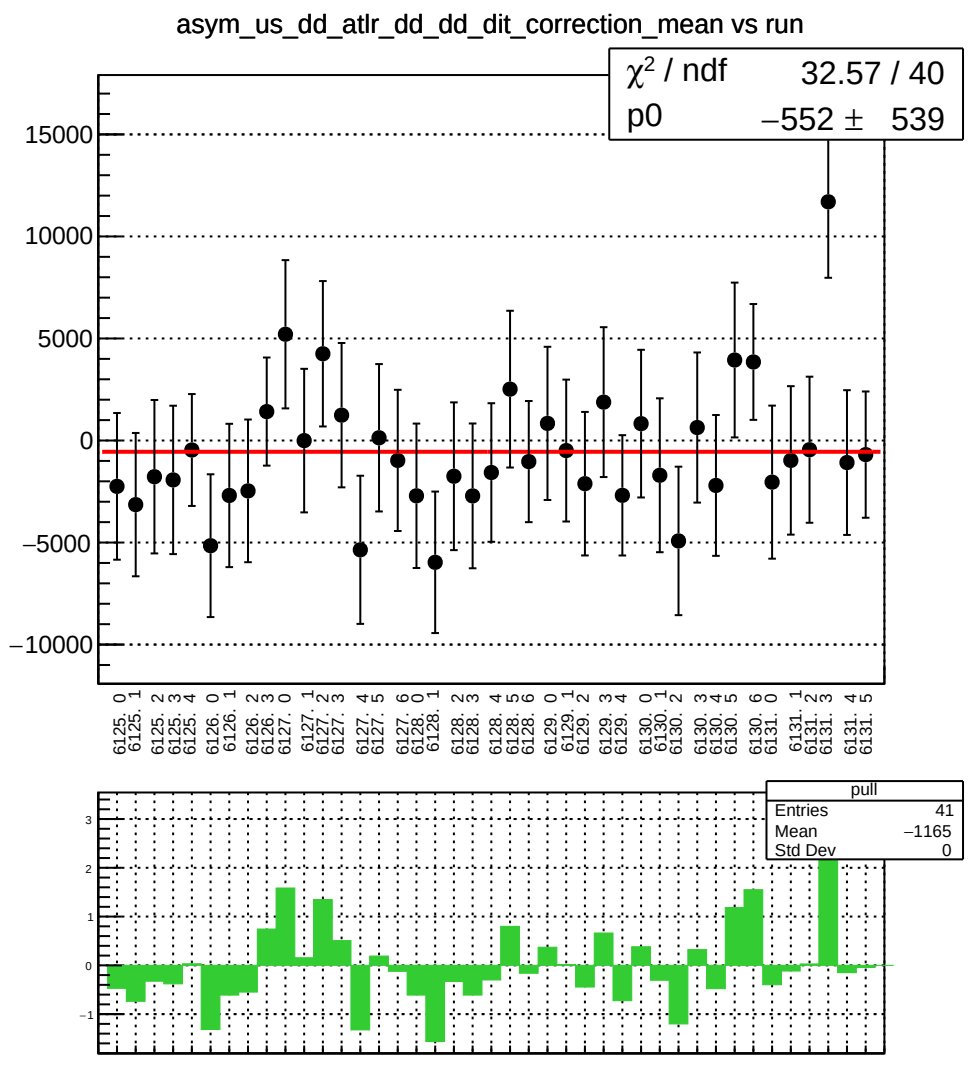
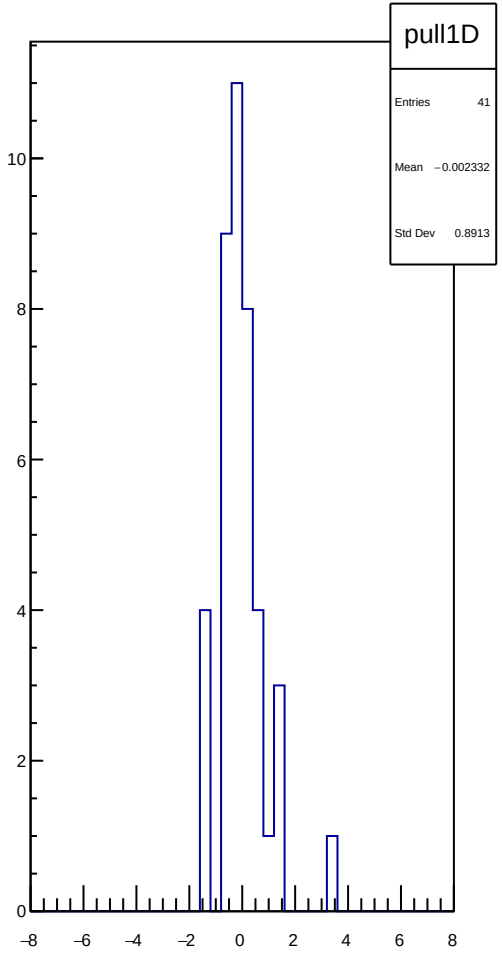
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

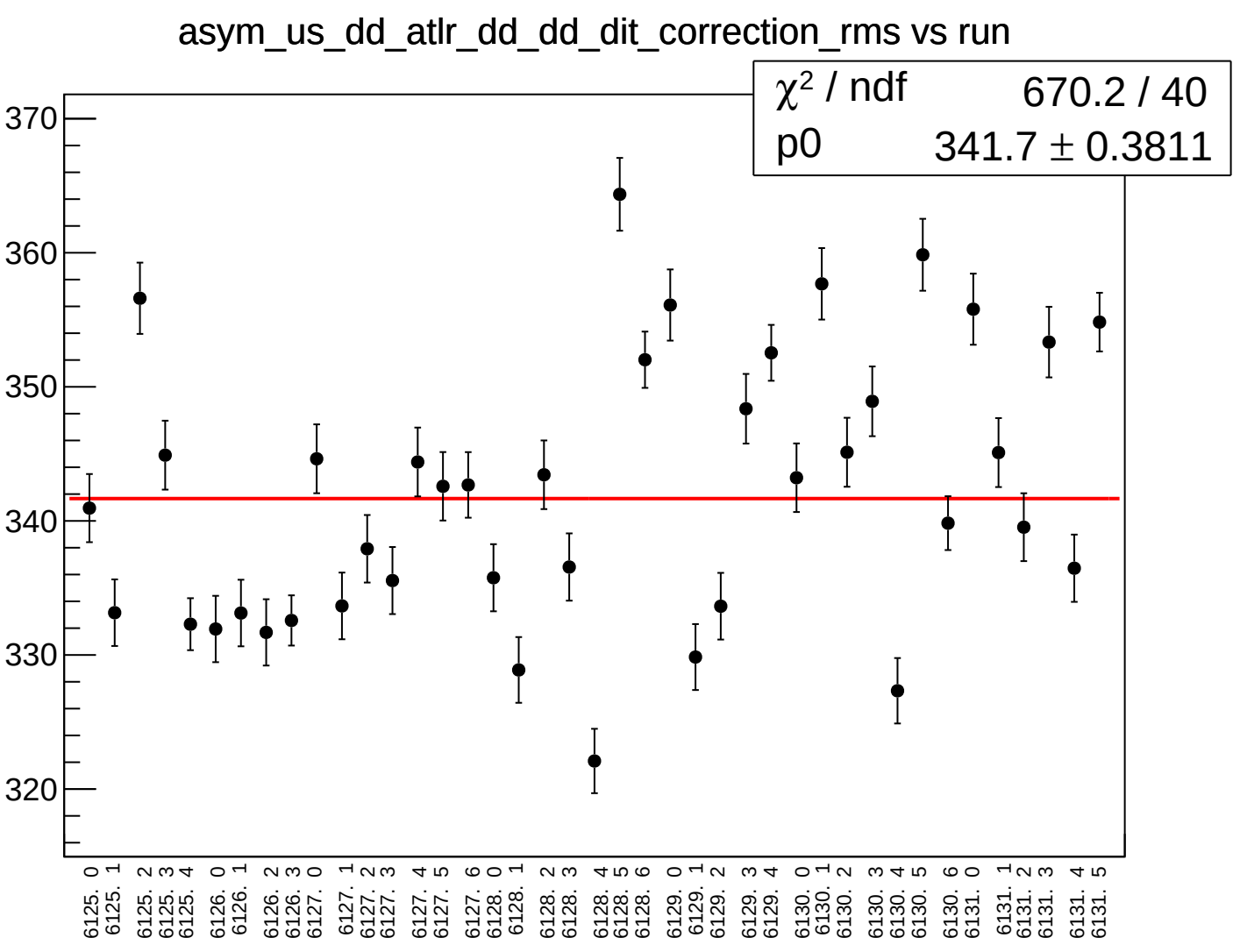

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 36.6 / 40
p0 −4198 ± 1645
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −35.48
Std Dev 18.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

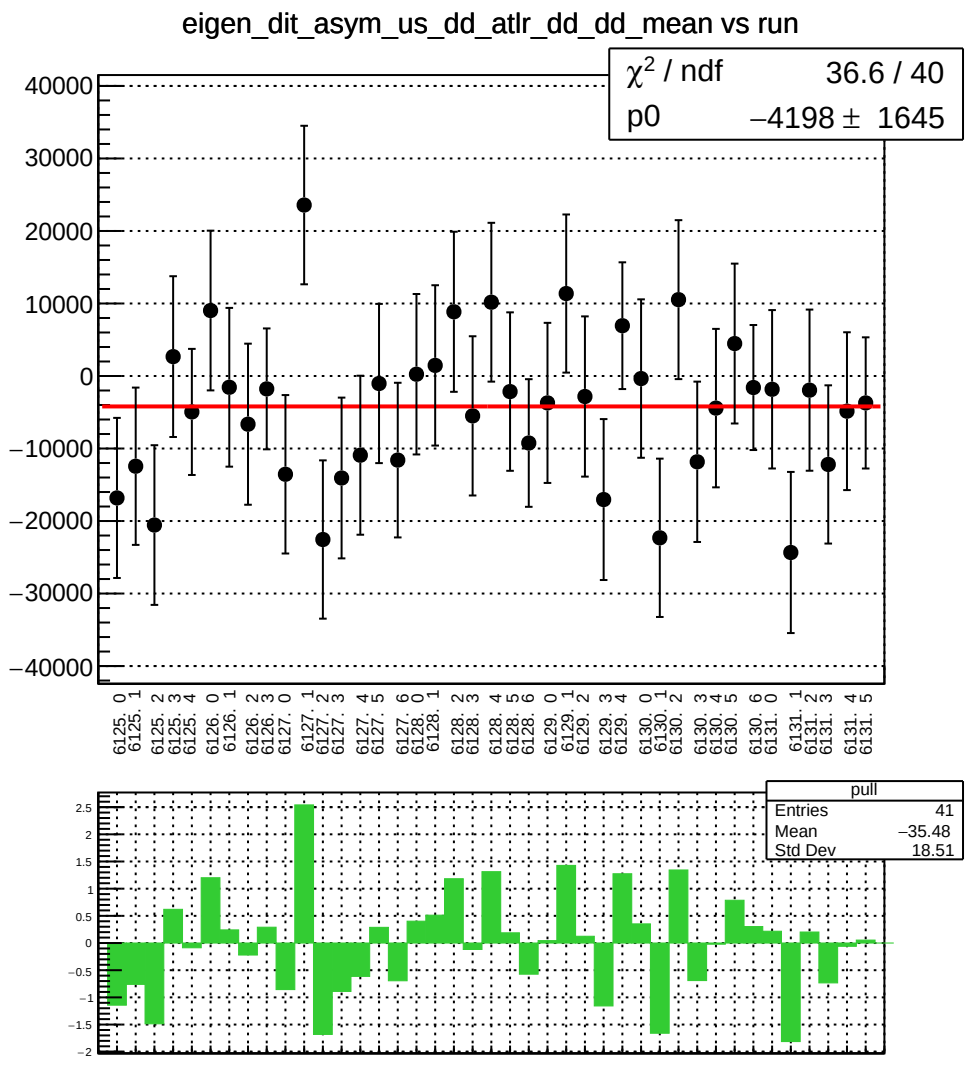

pull1D
Entries 41
Mean −0.008556
Std Dev 0.9447
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

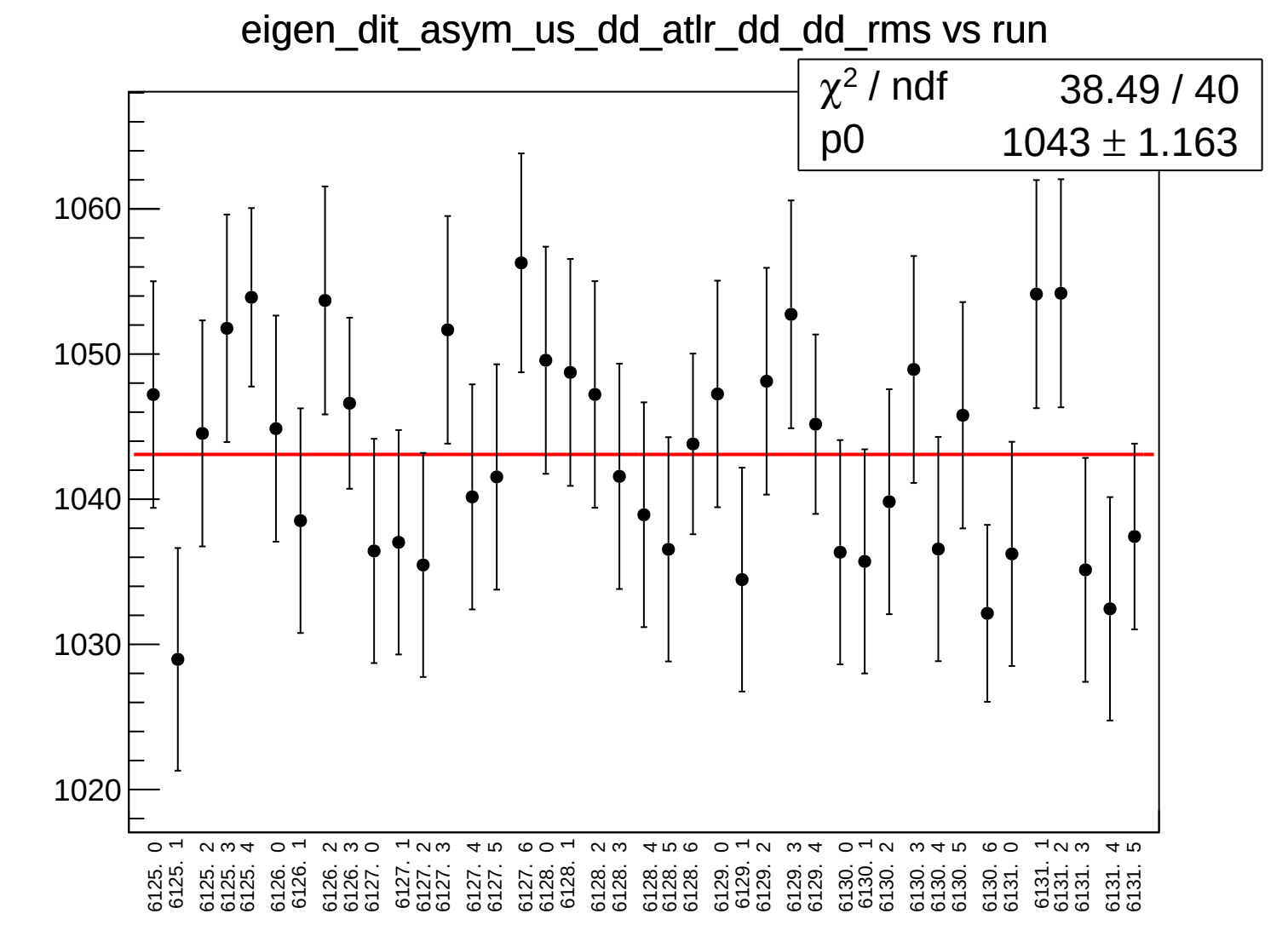

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 38.49 / 40
p0 1043 ± 1.163
1060
1050
1040
1030
1020
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

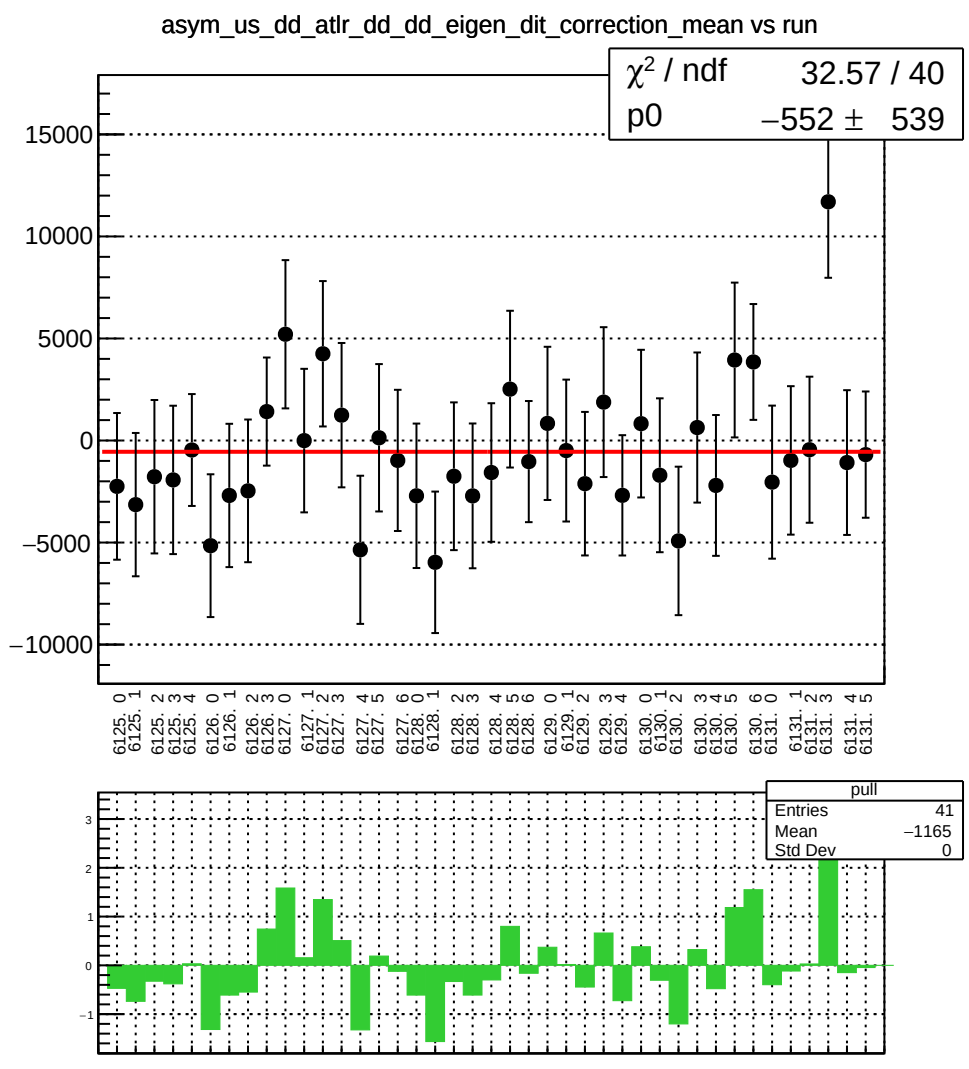

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 32.57 / 40
p0 −552 ± 539
15000
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1165
Std Dev 0
3
2
1
0
−1

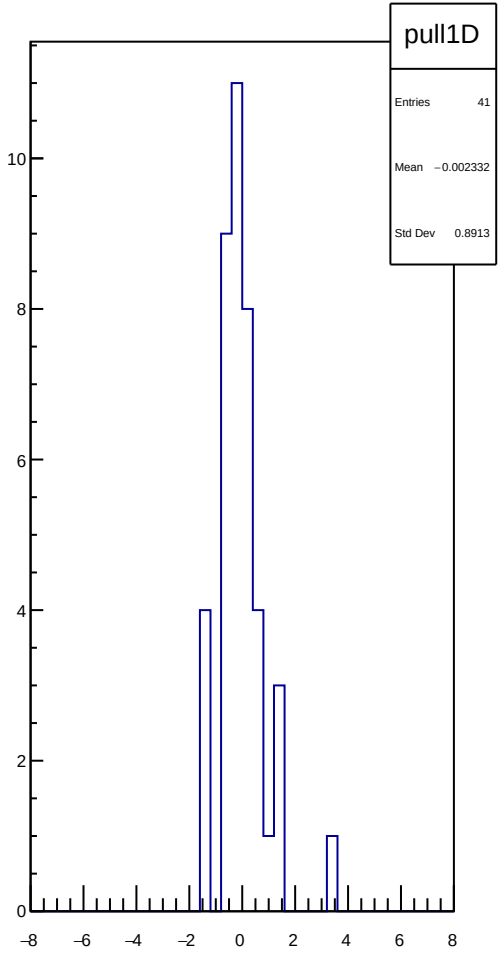

pull1D
Entries 41
Mean −0.002332
Std Dev 0.8913
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

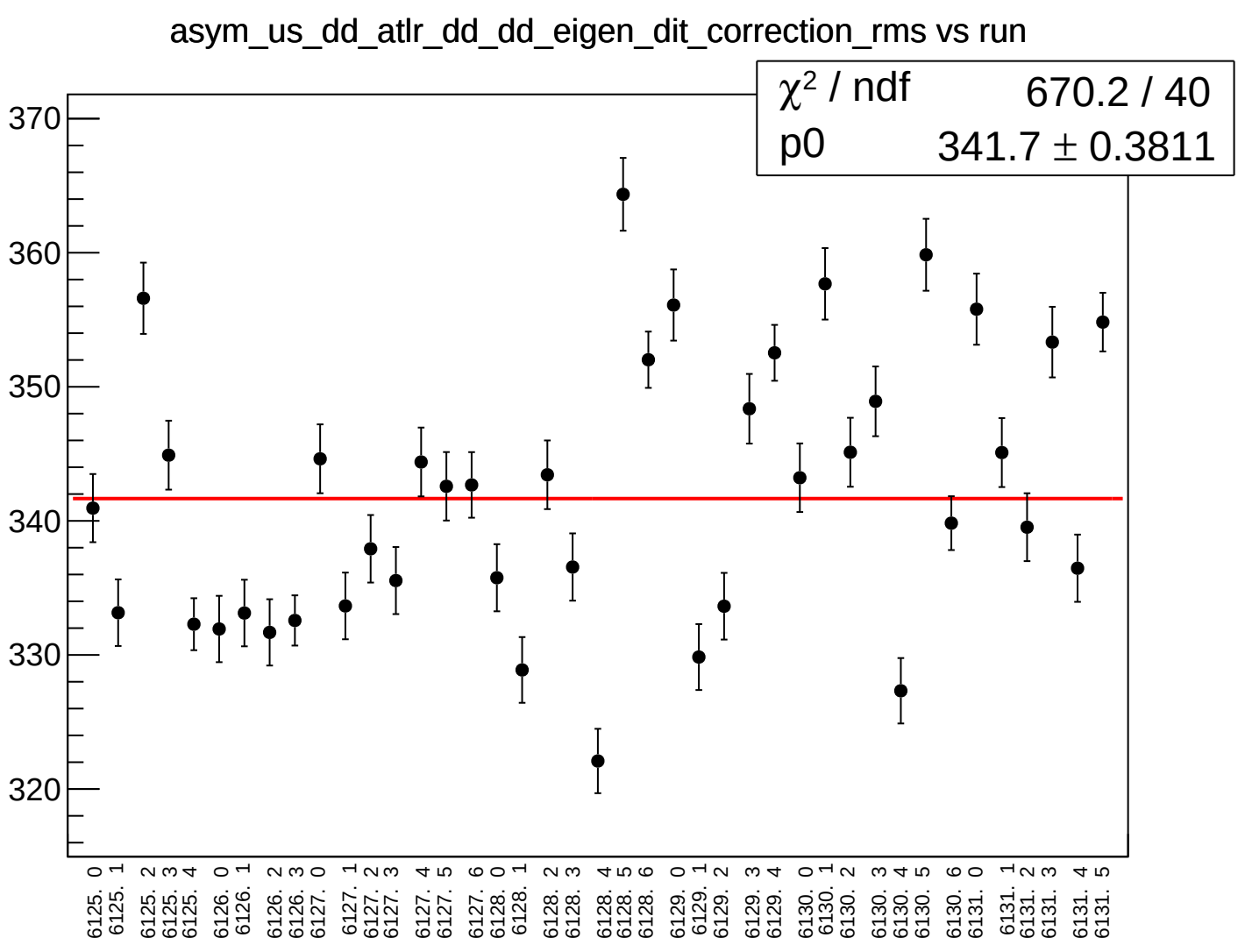

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 670.2 / 40
p0 341.7 ± 0.3811
370
360
350
340
330
320
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

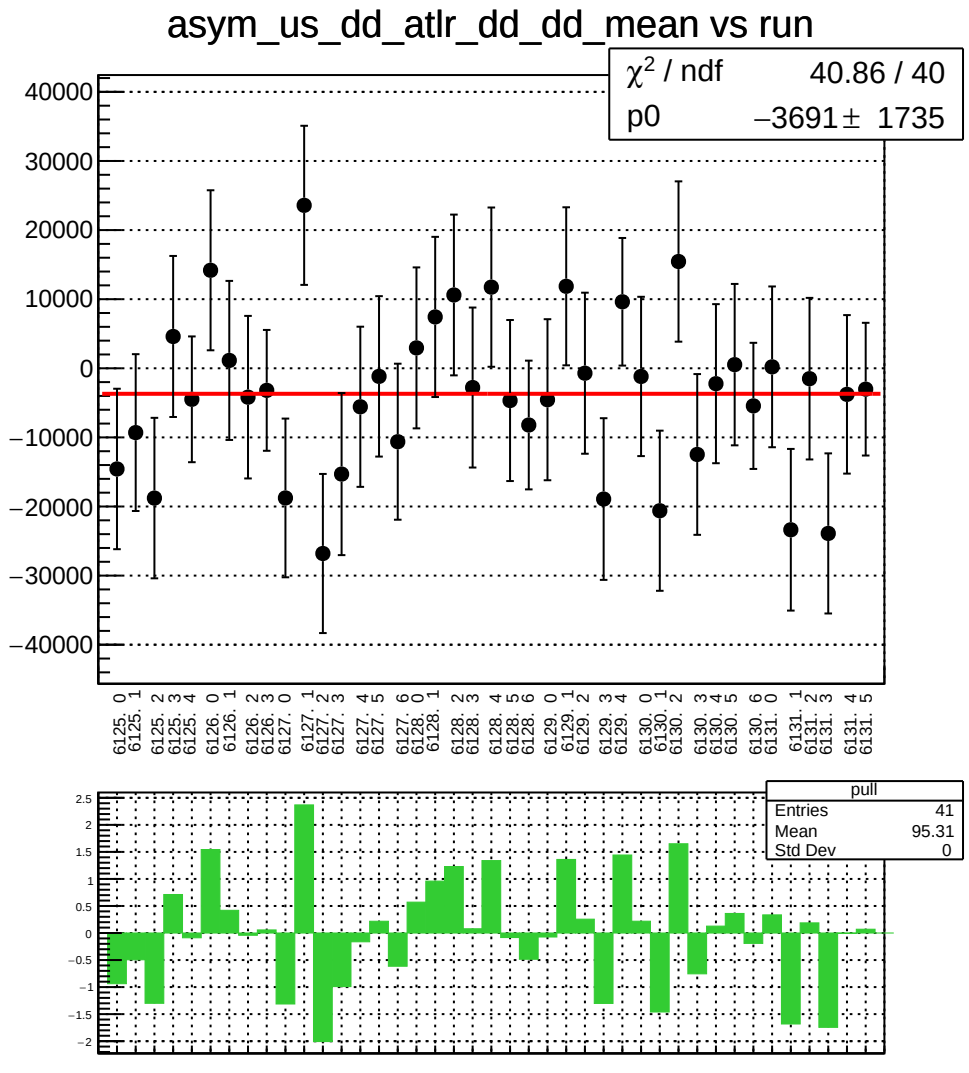

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 36.6 / 40
p0 −4198 ± 1645
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −35.48
Std Dev 18.51
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.008556
Std Dev 0.9447
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

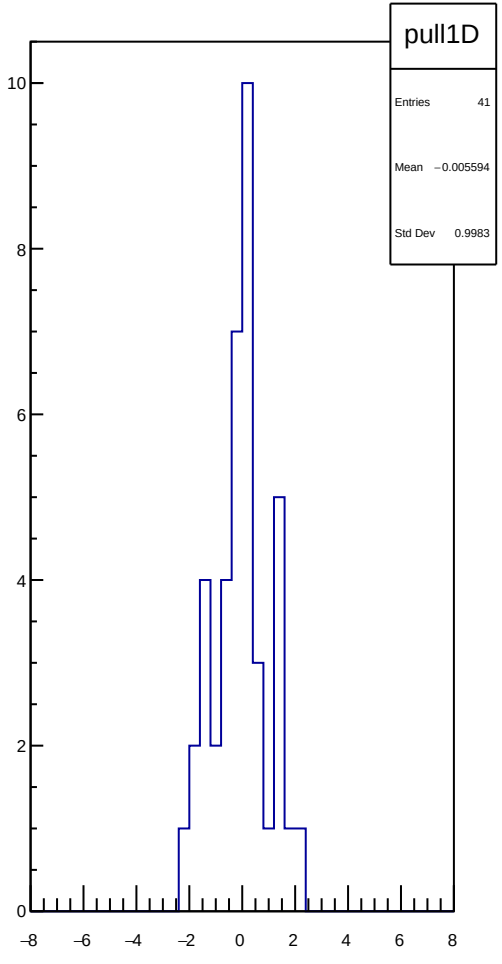

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 38.49 / 40
p0 1043 ± 1.163
1060
1050
1040
1030
1020
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

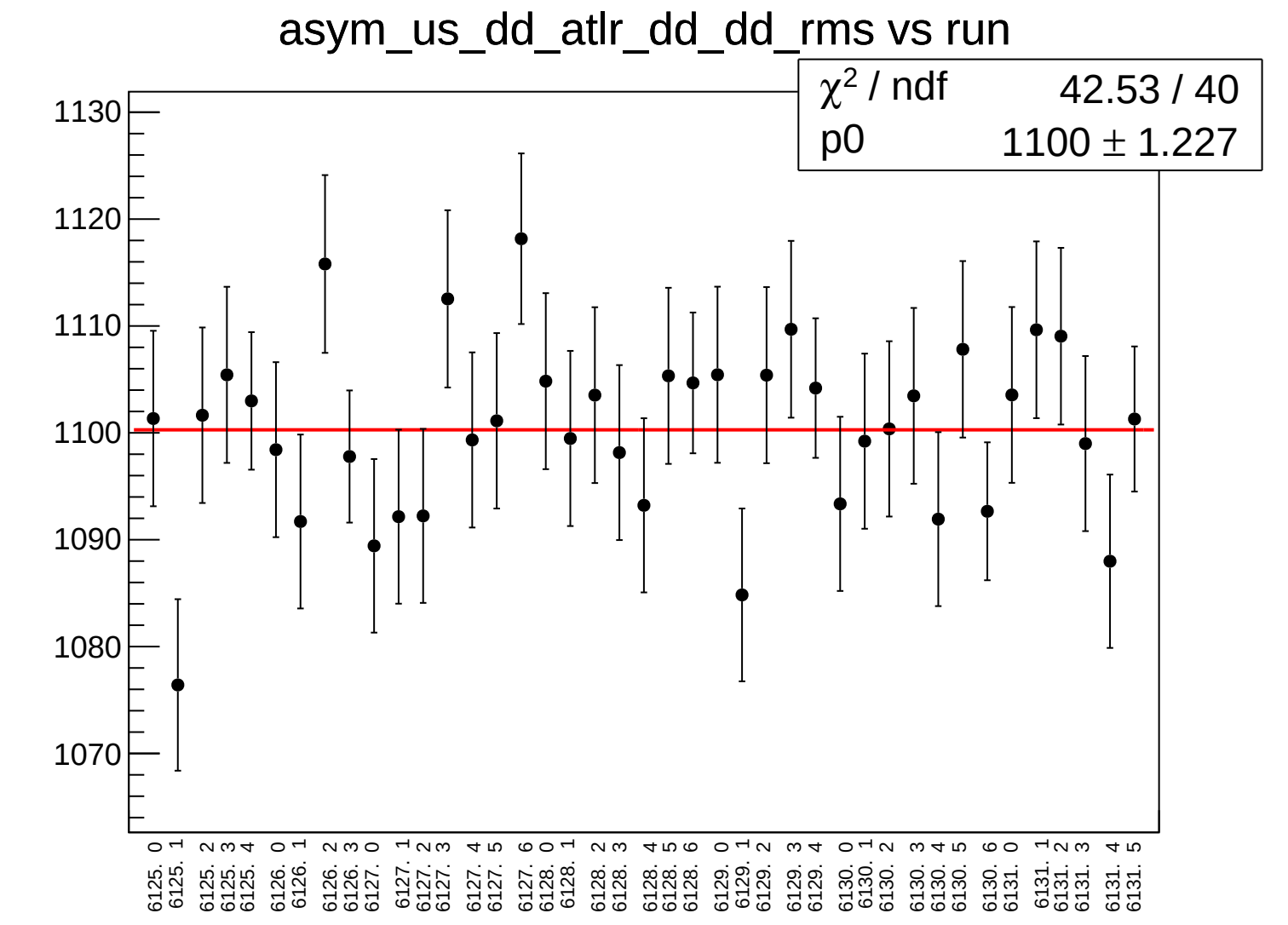

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 32.57 / 40
p0 −552 ± 539
15000
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1165
Std Dev 0
3
2
1
0
−1

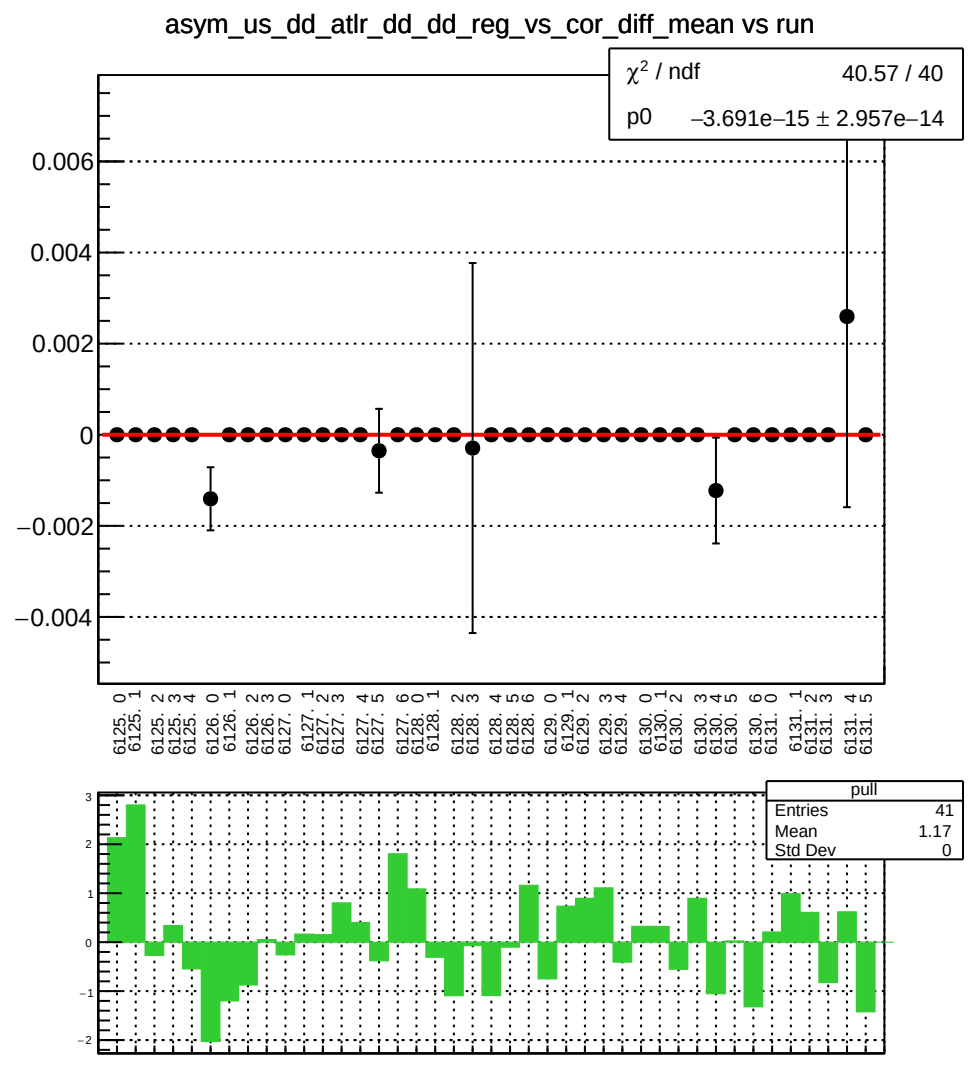

pull1D
Entries 41
Mean −0.002332
Std Dev 0.8913
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

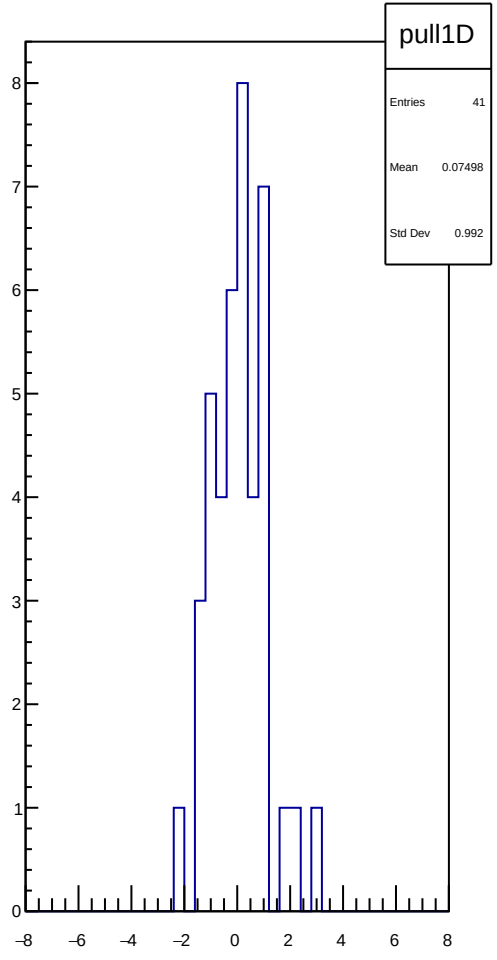

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 670.2 / 40
p0 341.7 ± 0.3811
370
360
350
340
330
320
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

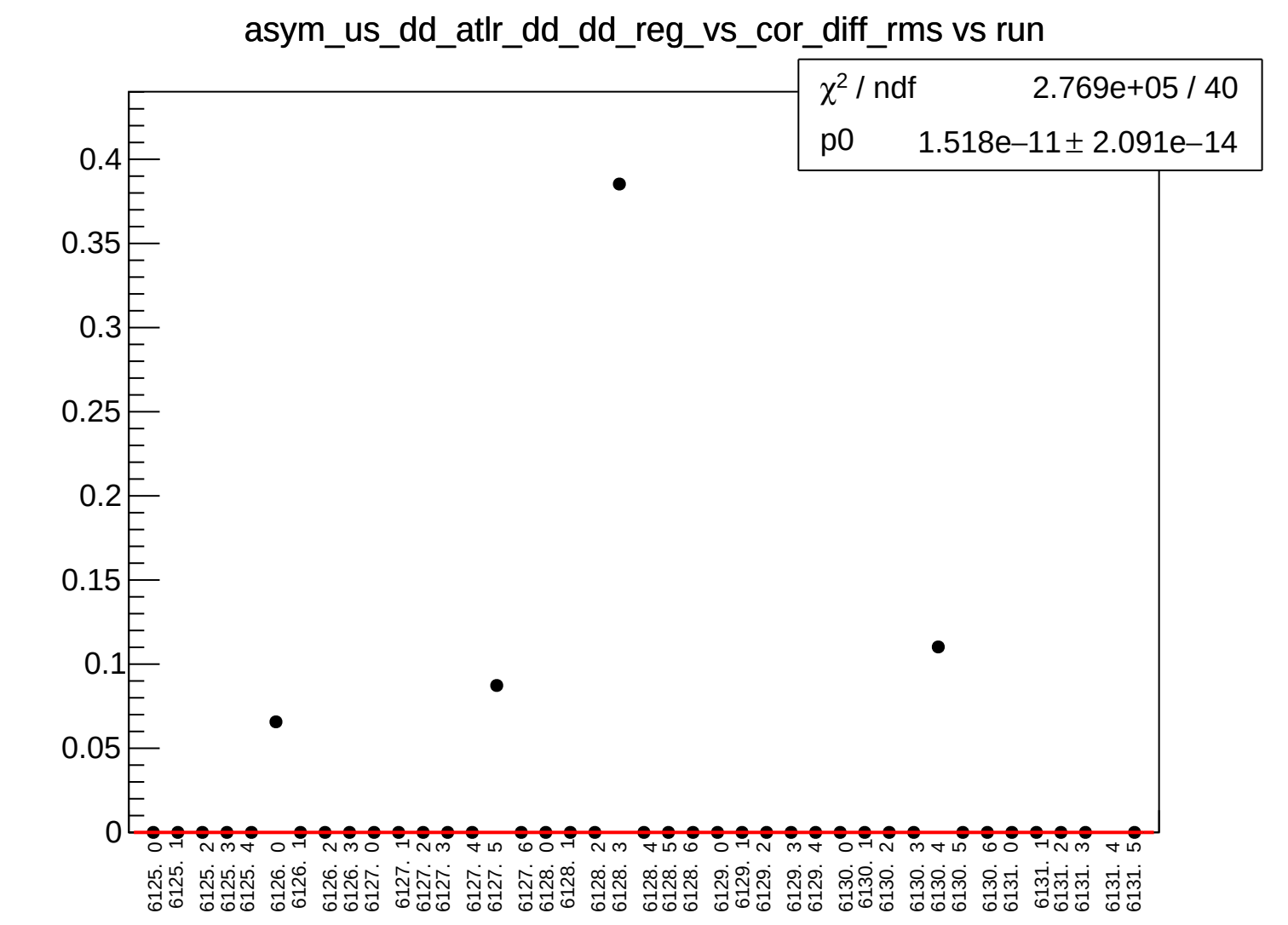

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 40.86 / 40
p0 −3691 ± 1735
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 95.31
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

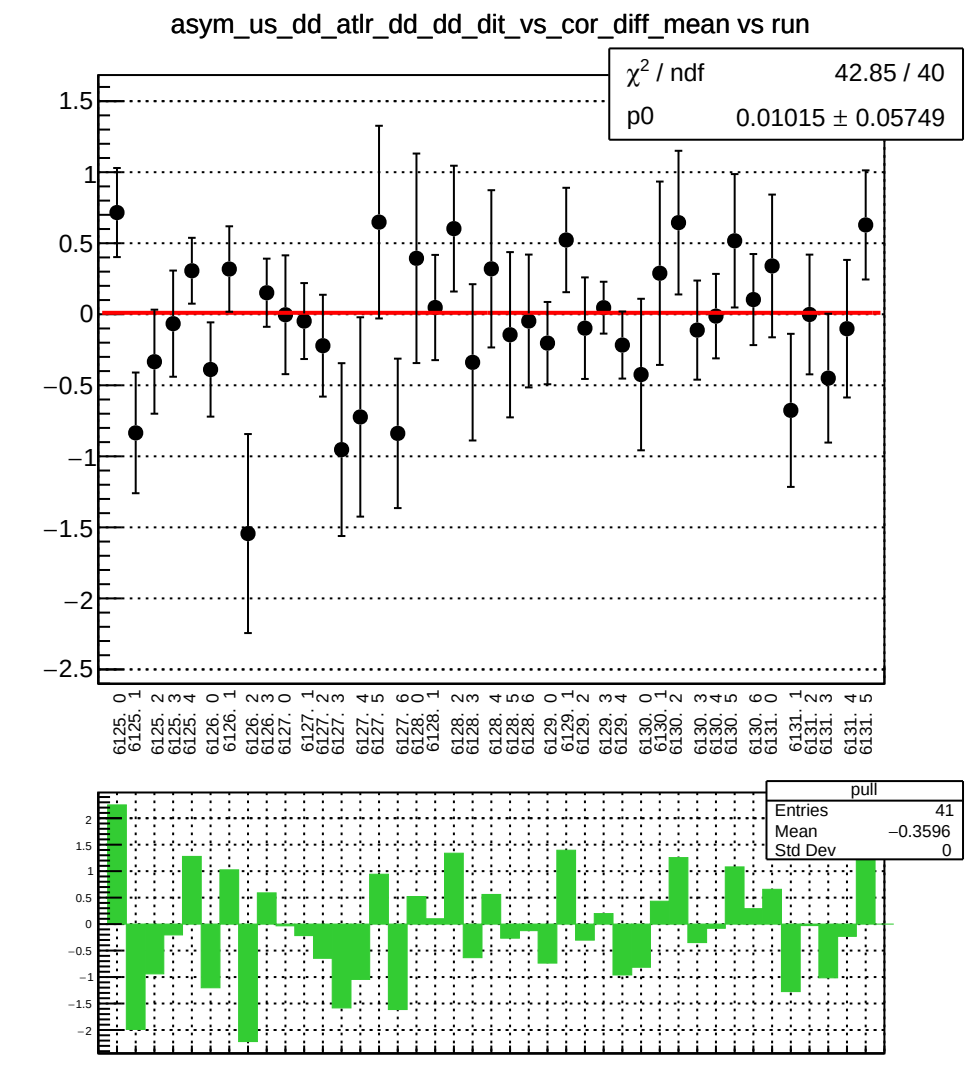

pull1D
Entries 41
Mean −0.005594
Std Dev 0.9983
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

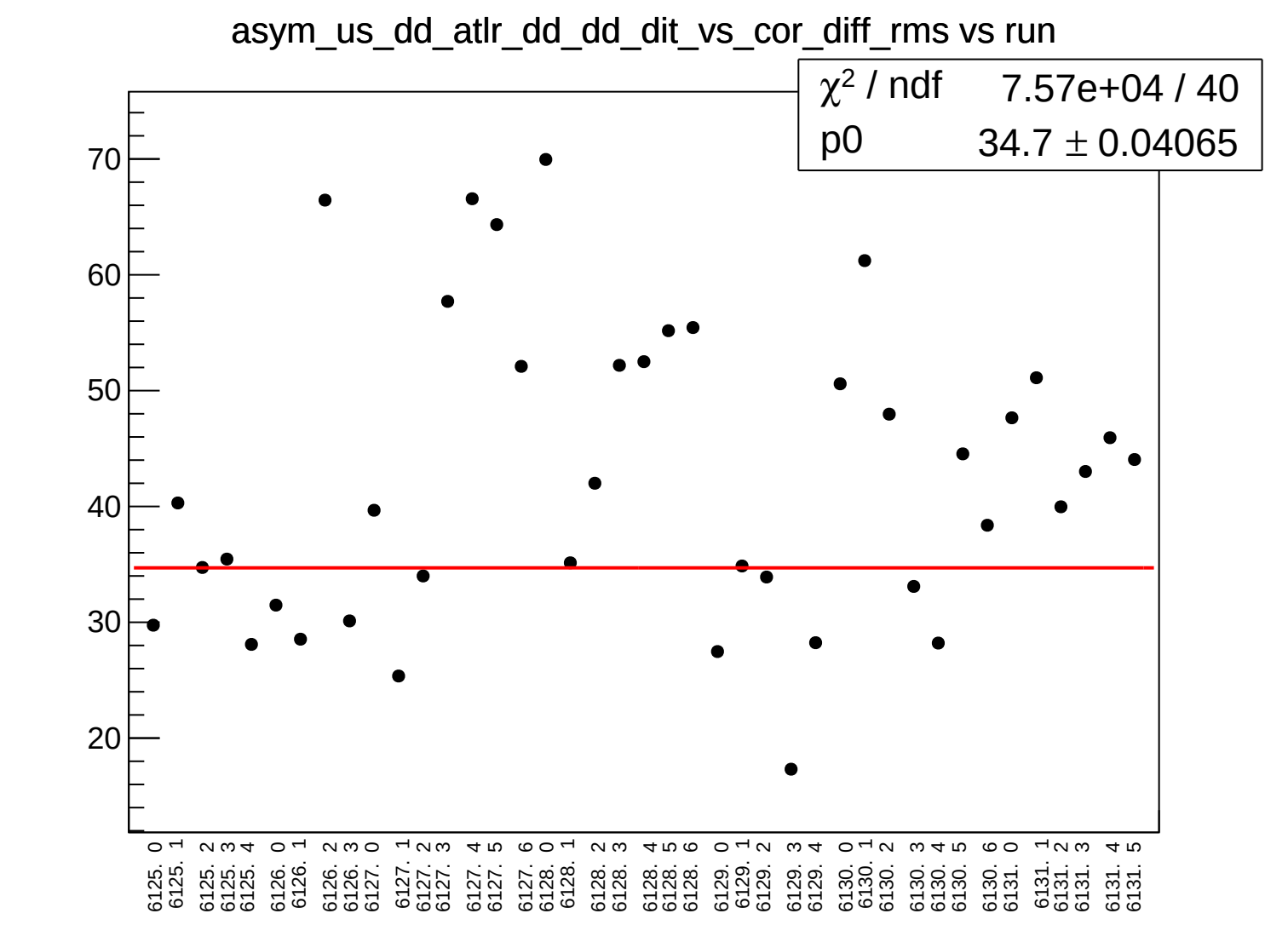

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 42.53 / 40
p0 1100 ± 1.227
1130
1120
1110
1100
1090
1080
1070
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

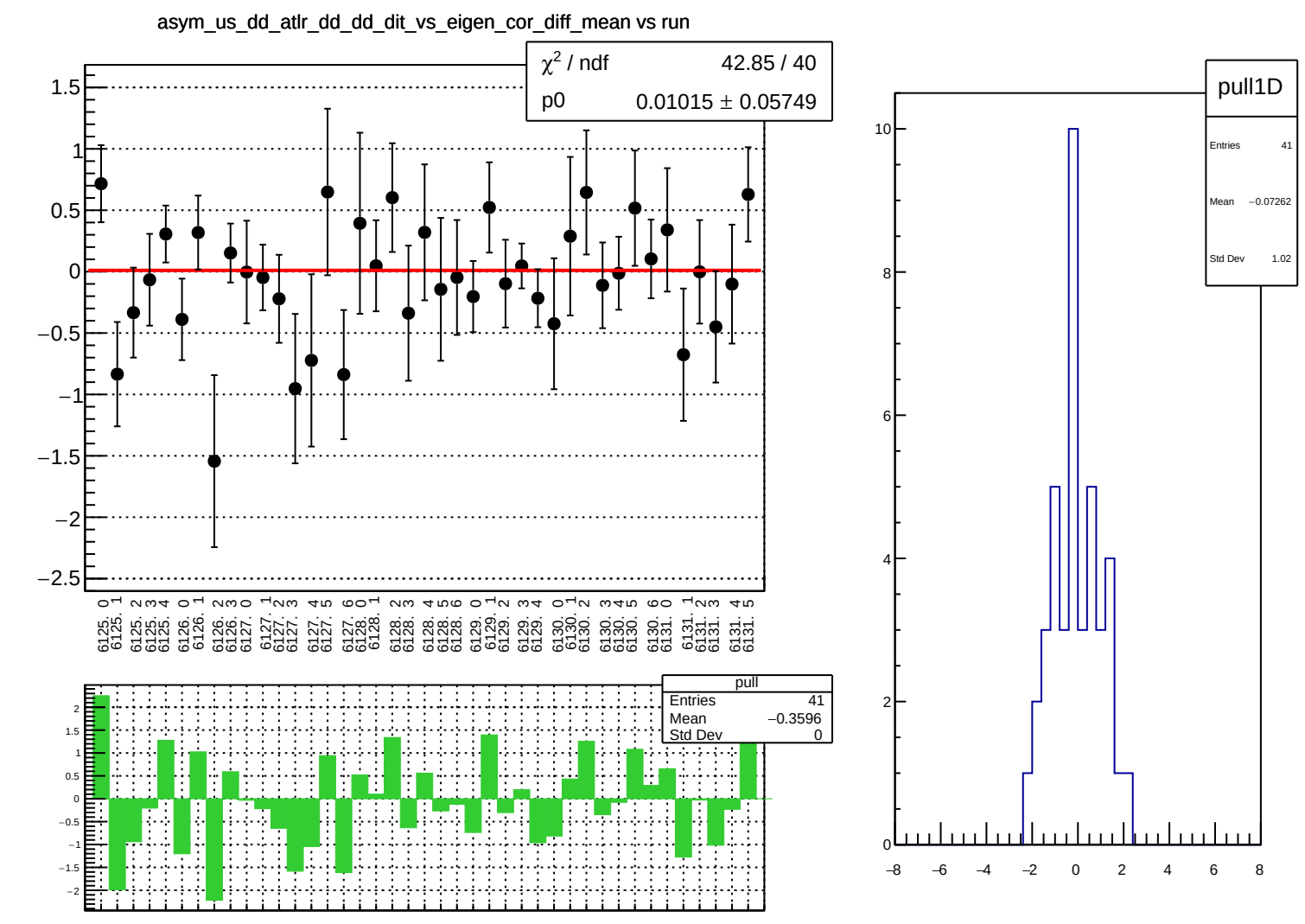

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 40.57 / 40
p0 −3.691e−15 ± 2.957e−14
0.006
0.004
0.002
0
−0.002
−0.004
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1.17
Std Dev 0
3
2
1
0
−1
−2

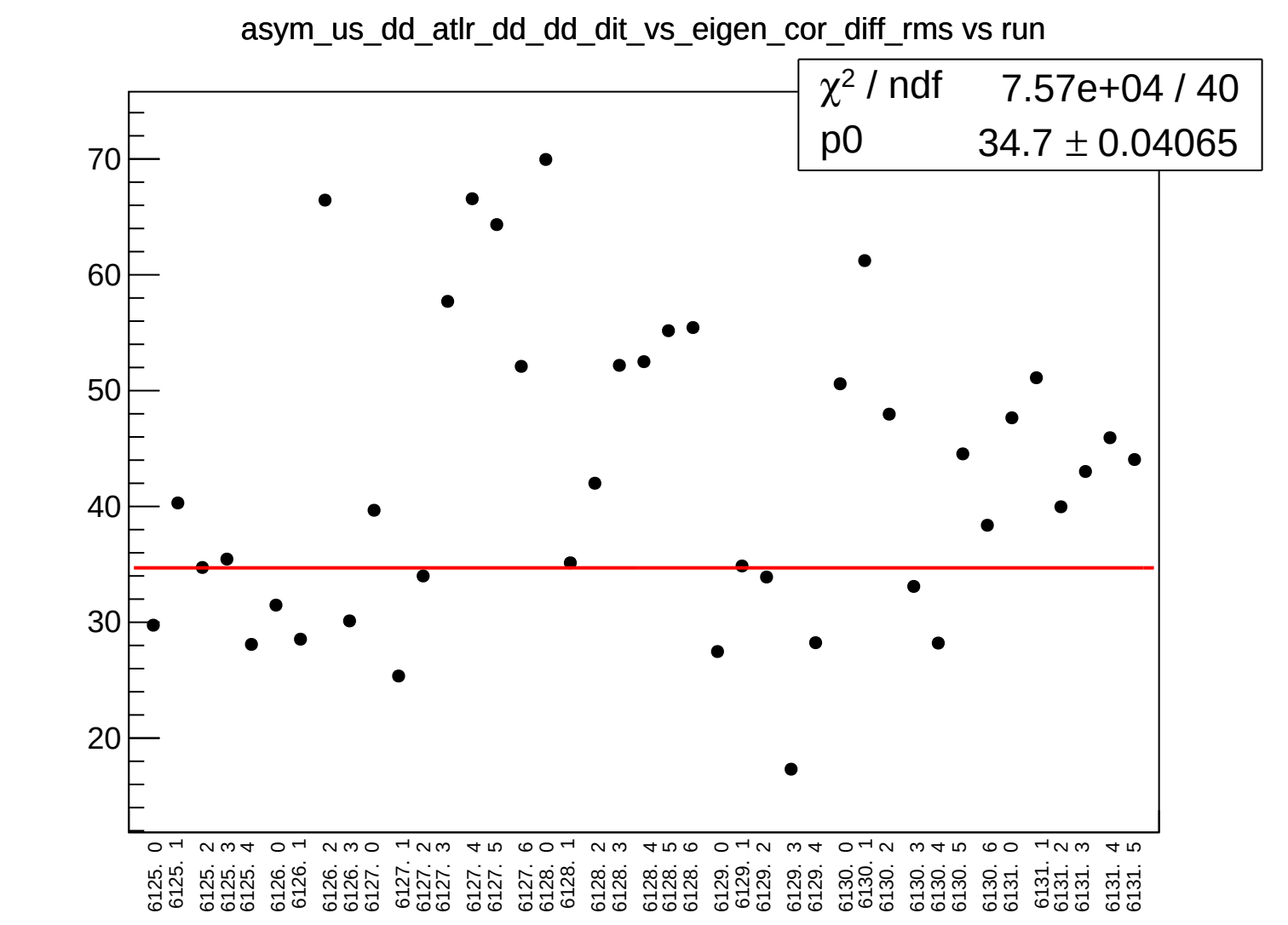

pull1D
Entries 41
Mean 0.07498
Std Dev 0.992
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

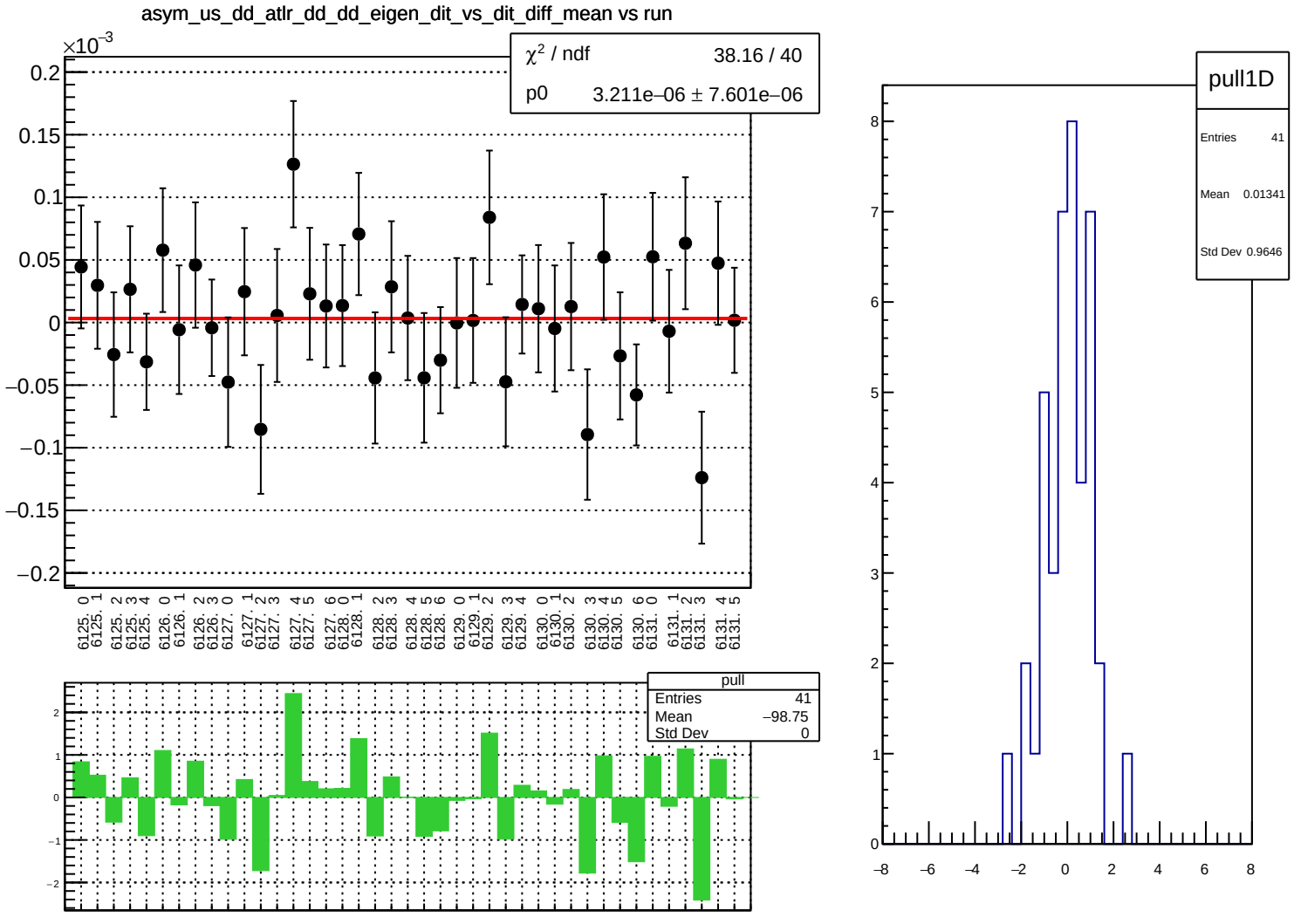

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.769e+05 / 40
p0 1.518e−11 ± 2.091e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

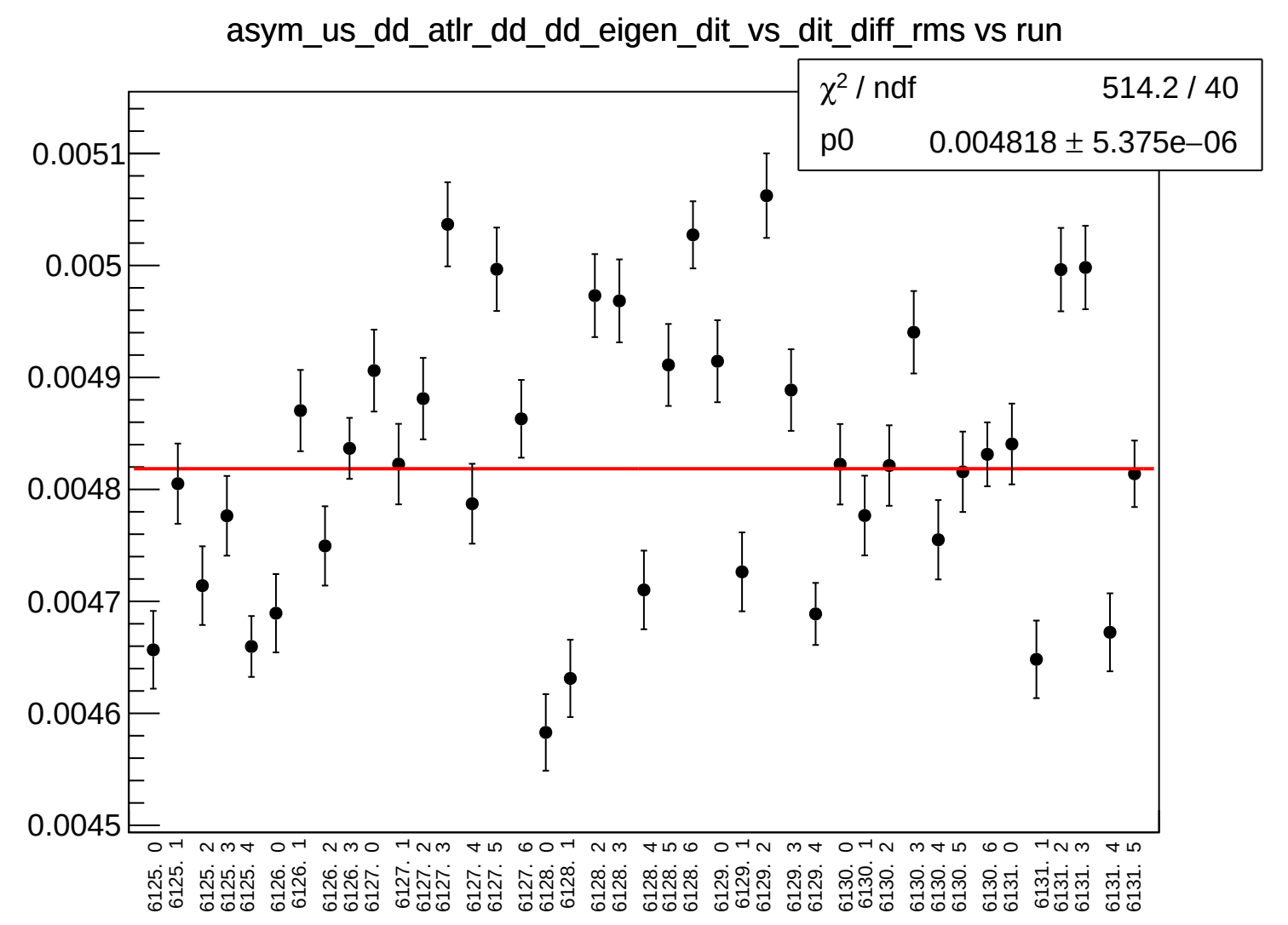

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 42.85 / 40
p0 0.01015 ± 0.05749
pull
Entries 41
Mean −0.3596
Std Dev 0
pull1D
Entries 41
Mean −0.07262
Std Dev 1.02

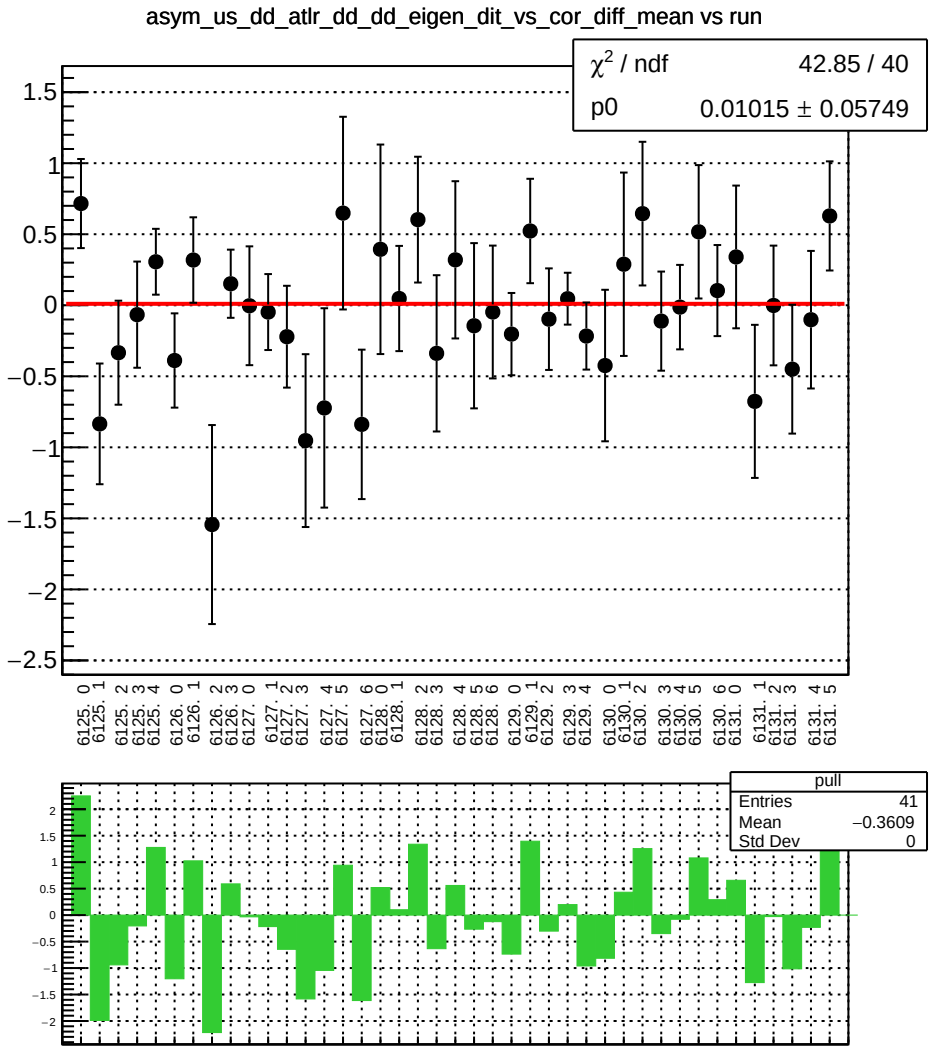

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.57e+04 / 40
p0 34.7 ± 0.04065
70
60
50
40
30
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

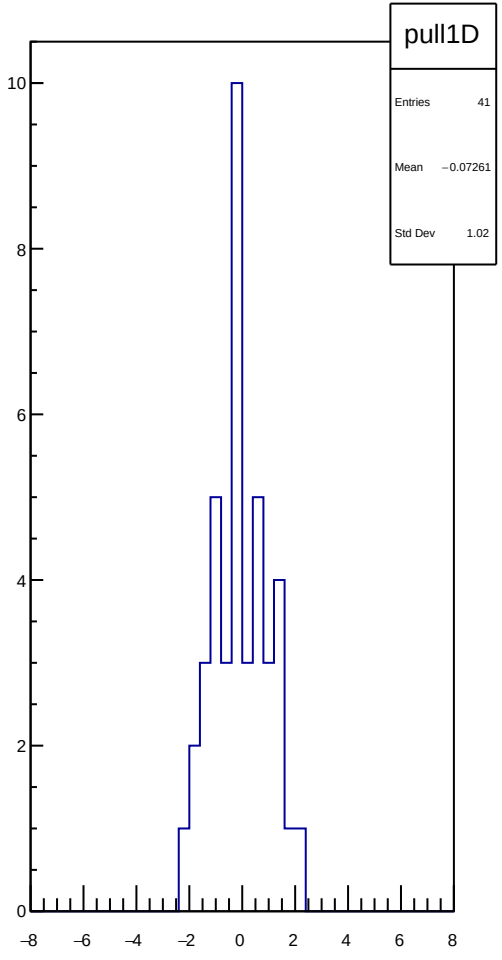

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.85 / 40
p0 0.01015 ± 0.05749
pull
Entries 41
Mean −0.3596
Std Dev 0
pull1D
Entries 41
Mean −0.07262
Std Dev 1.02

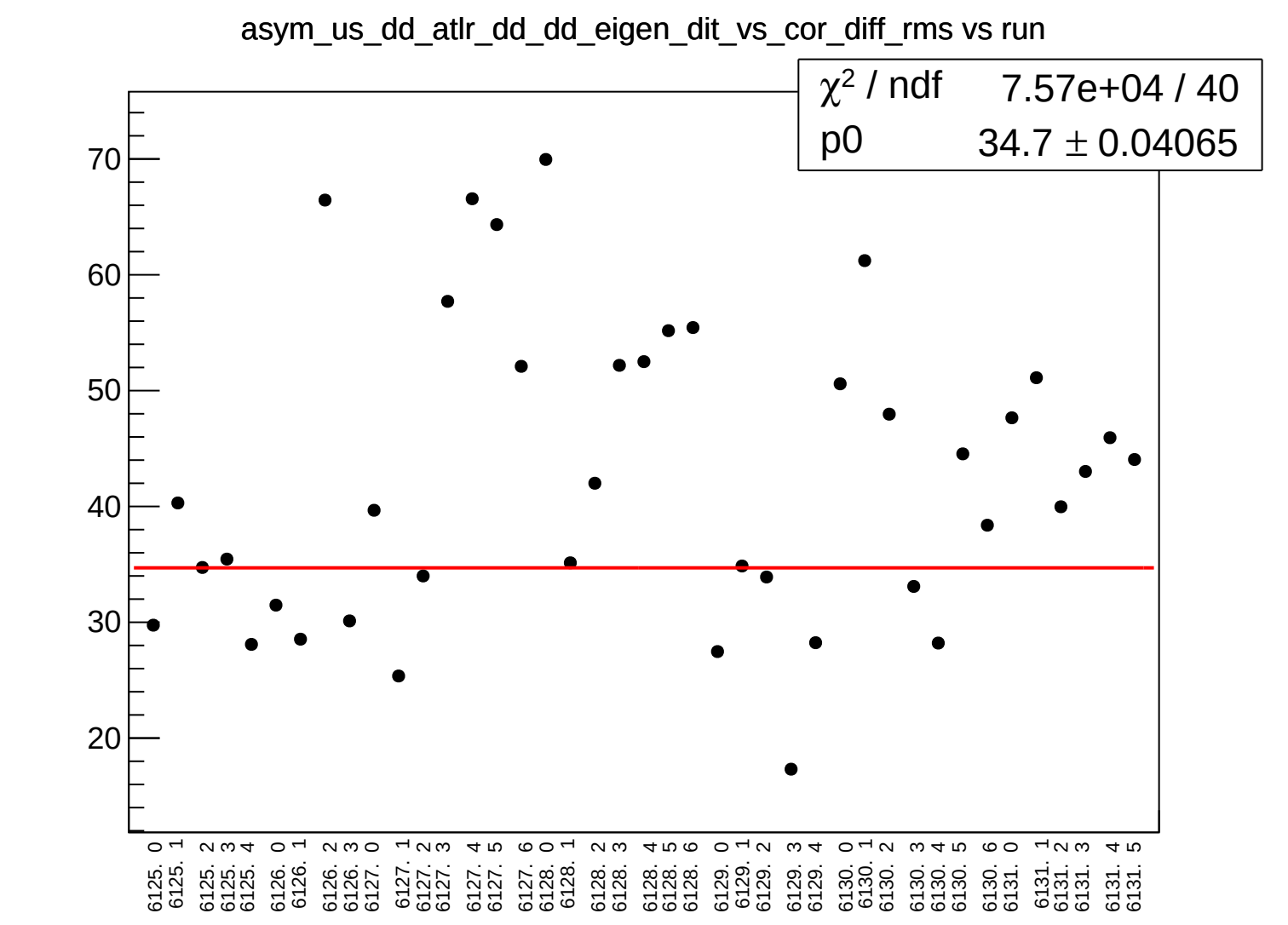

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.57e+04 / 40
p0 34.7 ± 0.04065
70
60
50
40
30
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

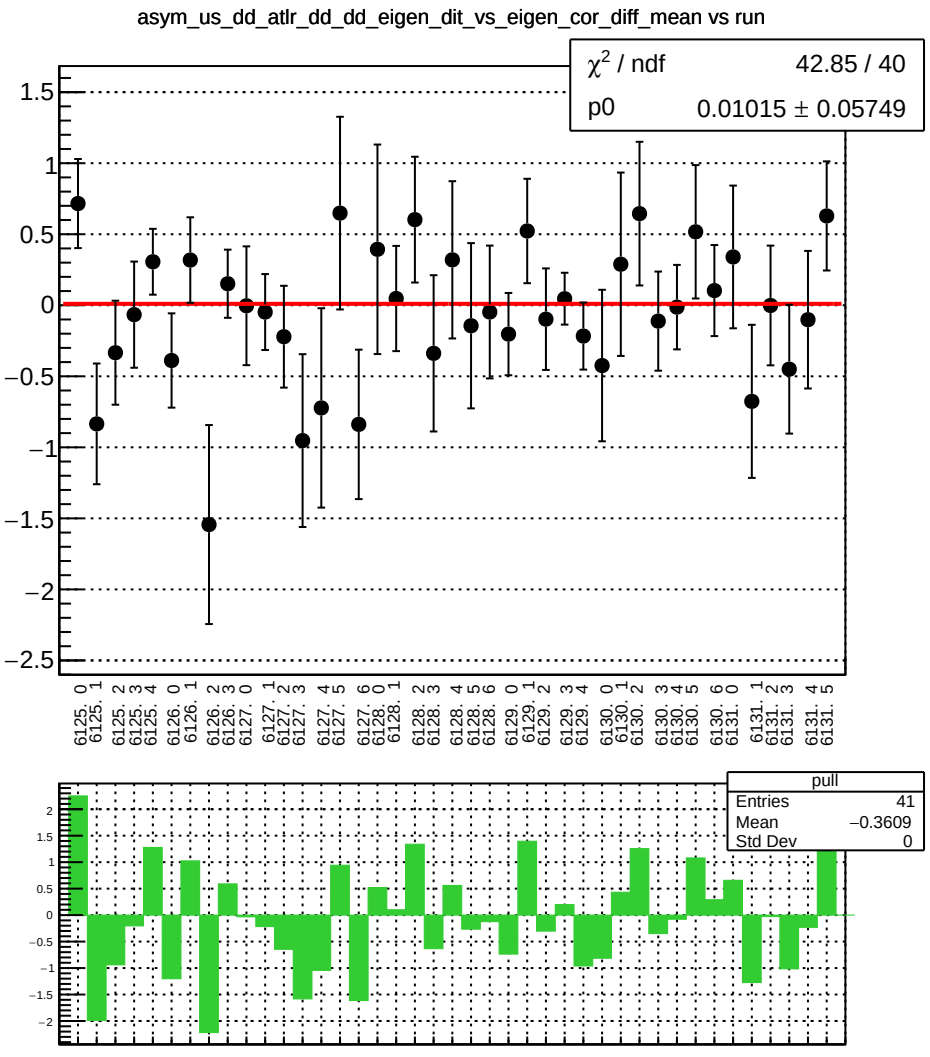

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 38.16 / 40
p0 3.211e−06 ± 7.601e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −98.75
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01341
Std Dev 0.9646
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

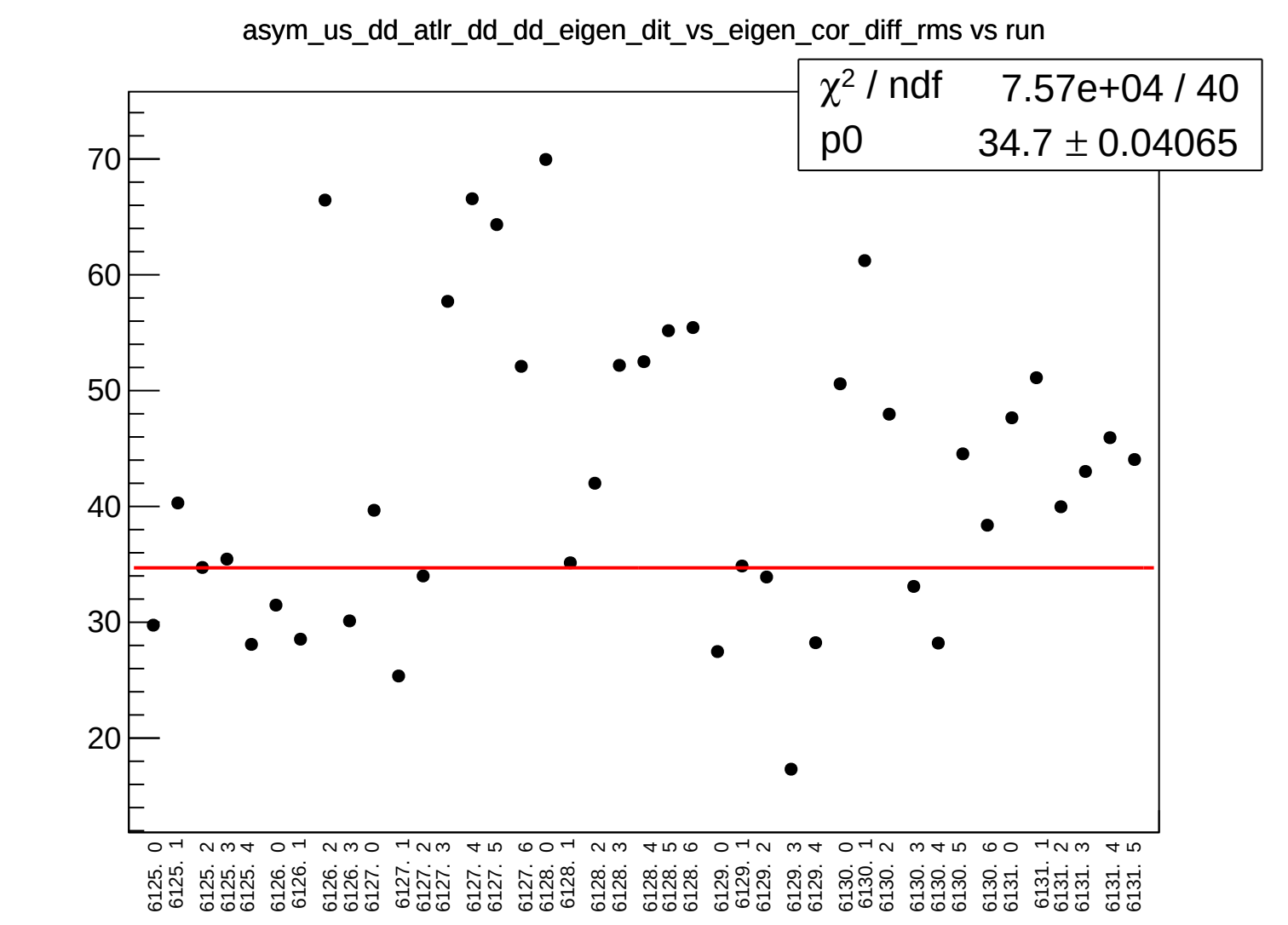

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 514.2 / 40
p0 0.004818 ± 5.375e−06
0.0051
0.005
0.0049
0.0048
0.0047
0.0046
0.0045
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

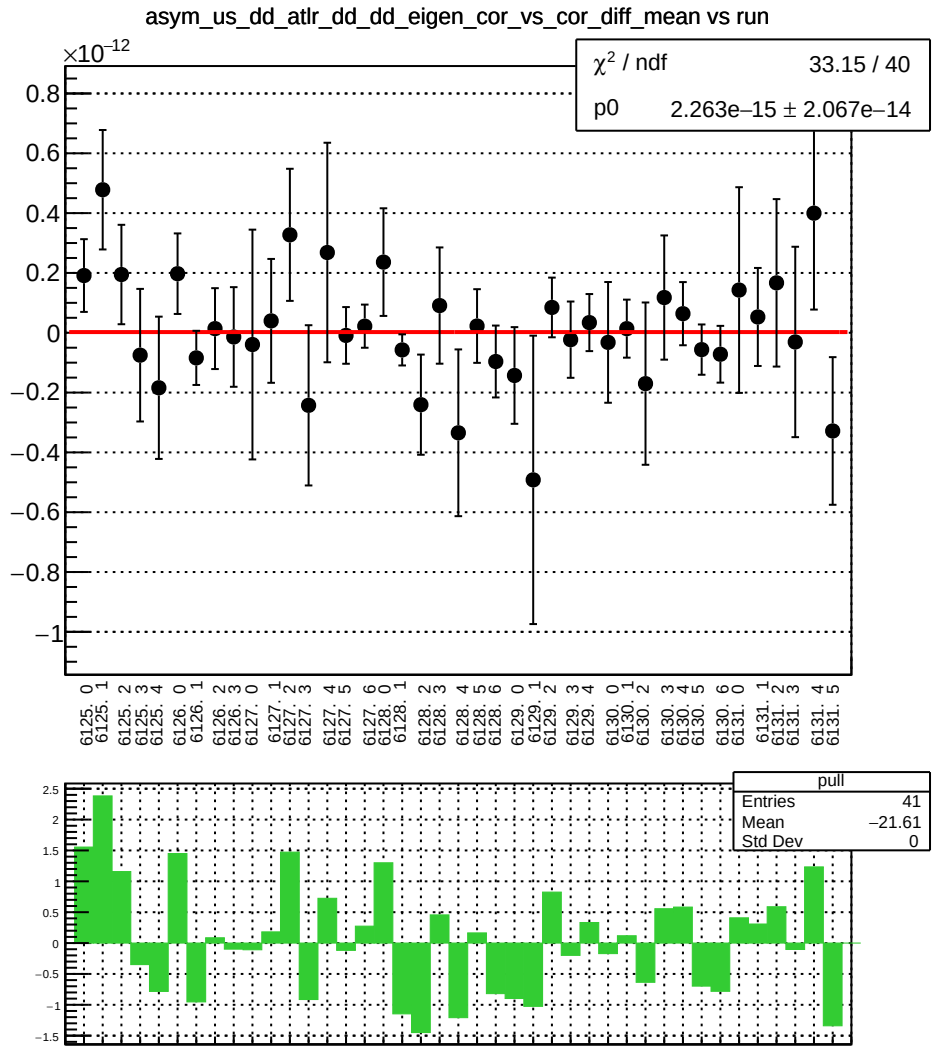

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 42.85 / 40
p0 0.01015 ± 0.05749
pull
Entries 41
Mean −0.3609
Std Dev 0

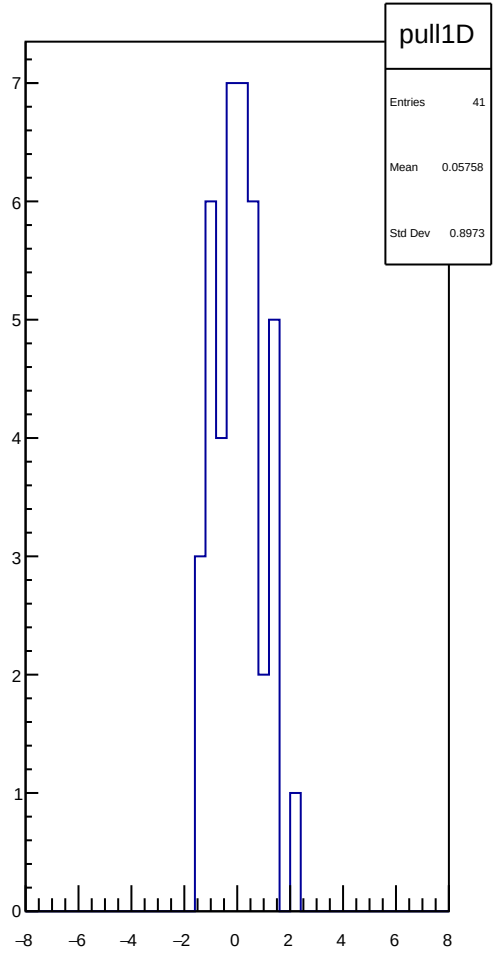

pull1D
Entries 41
Mean −0.07261
Std Dev 1.02

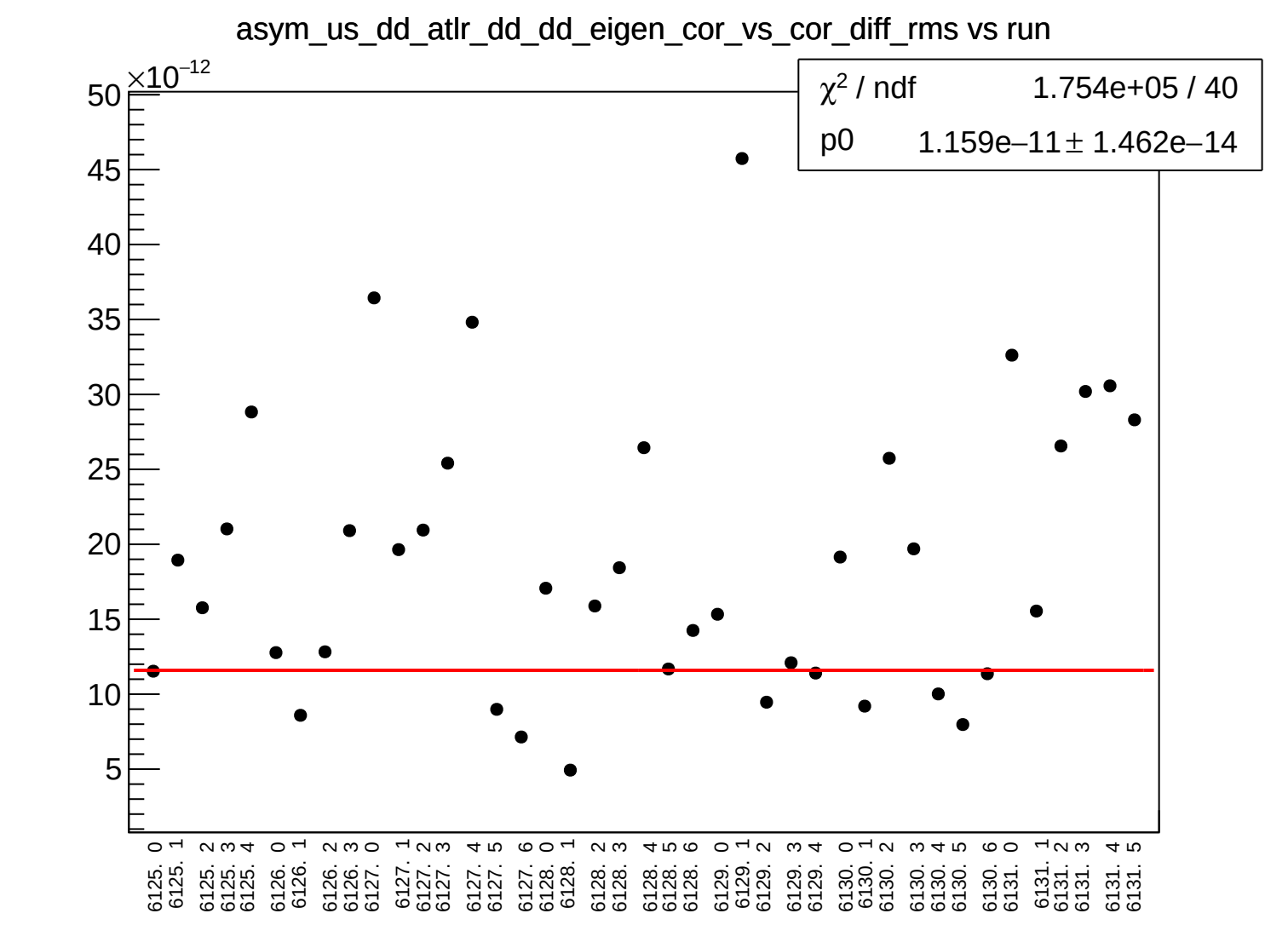

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.57e+04 / 40
p0 34.7 ± 0.04065
70
60
50
40
30
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

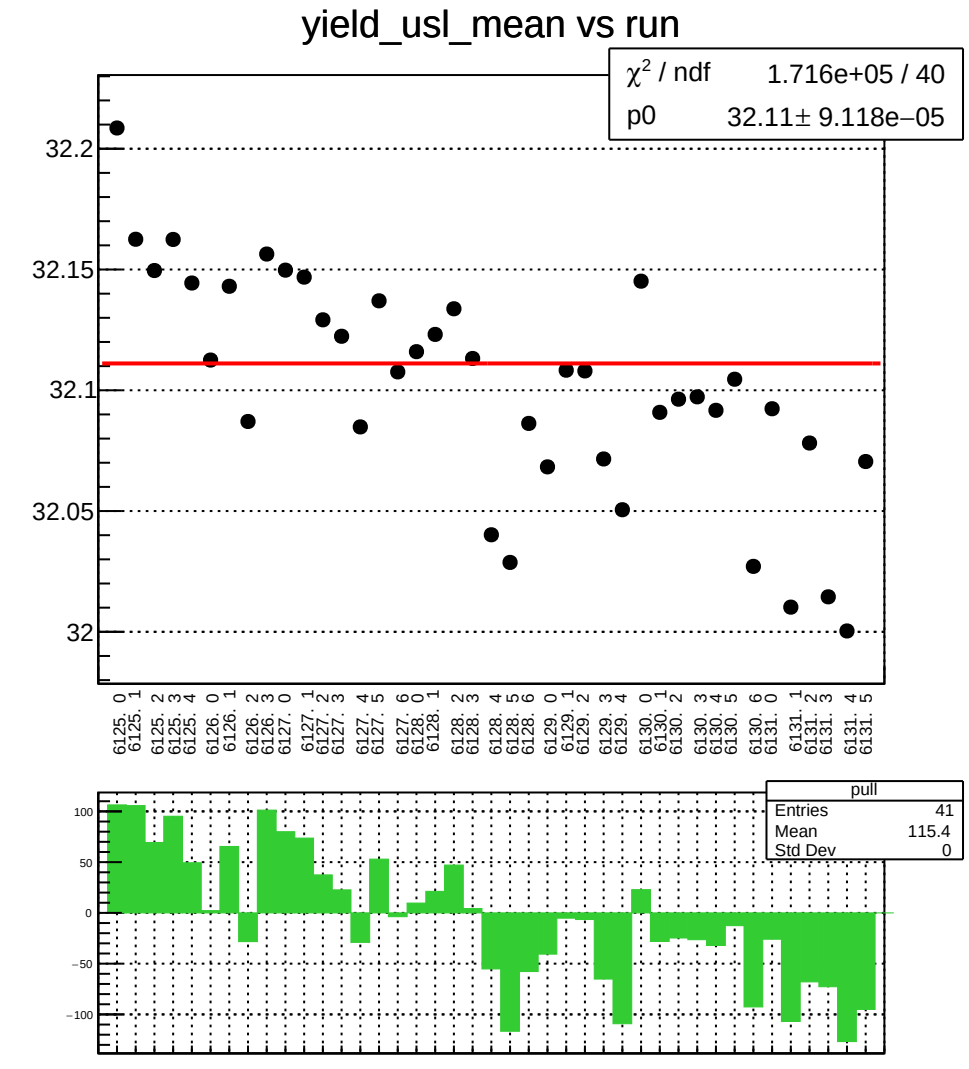

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.85 / 40
p0 0.01015 ± 0.05749
pull
Entries 41
Mean −0.3609
Std Dev 0
pull1D
Entries 41
Mean −0.07261
Std Dev 1.02

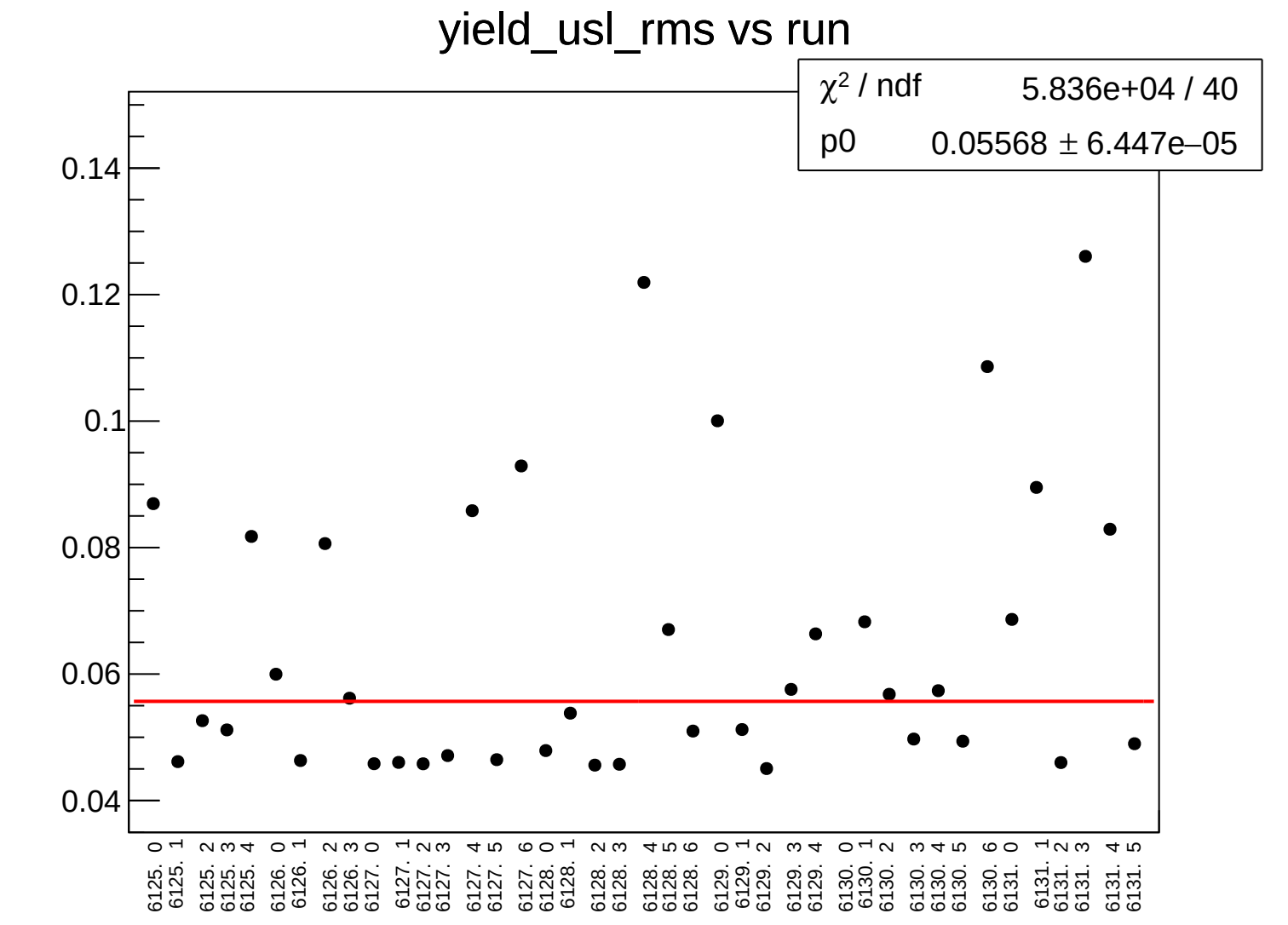

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.57e+04 / 40
p0 34.7 ± 0.04065
70
60
50
40
30
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

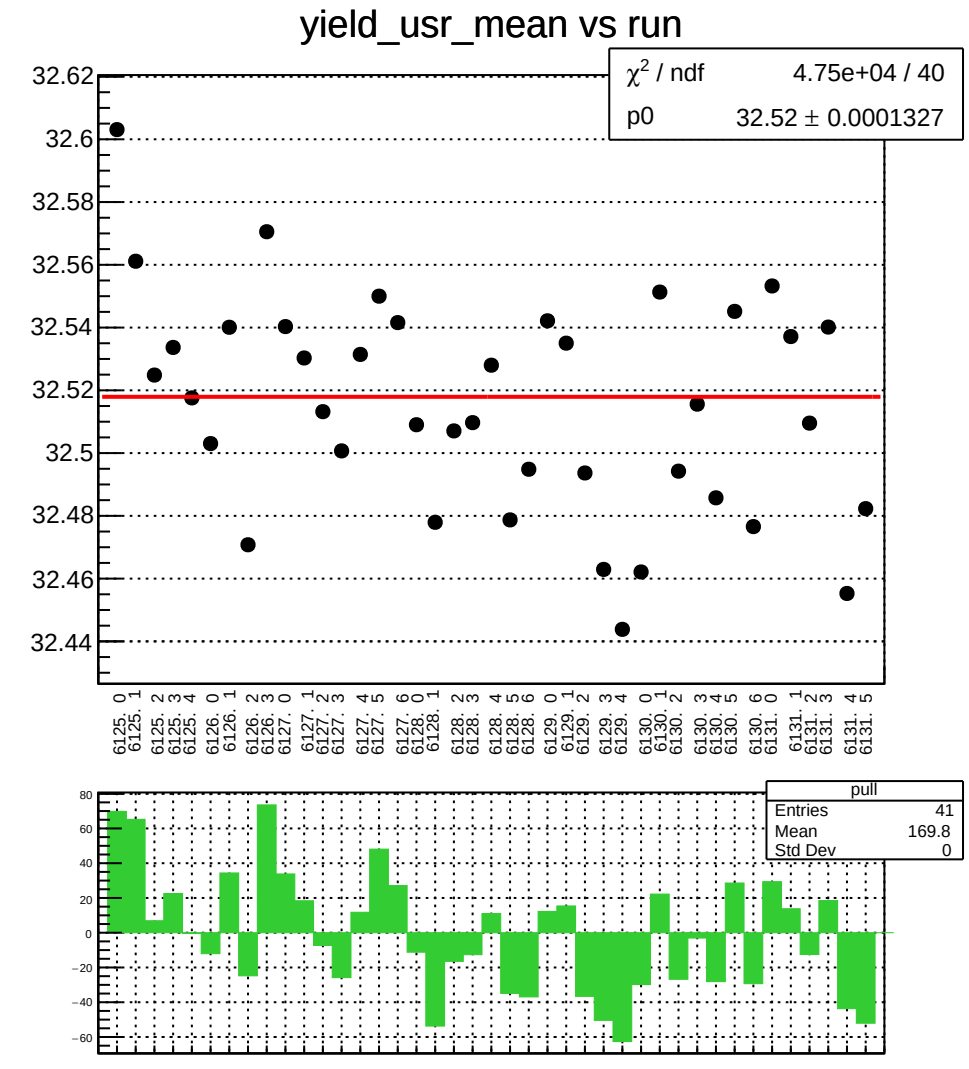

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 33.15 / 40
p0 2.263e−15 ± 2.067e−14
pull
Entries 41
Mean −21.61
Std Dev 0

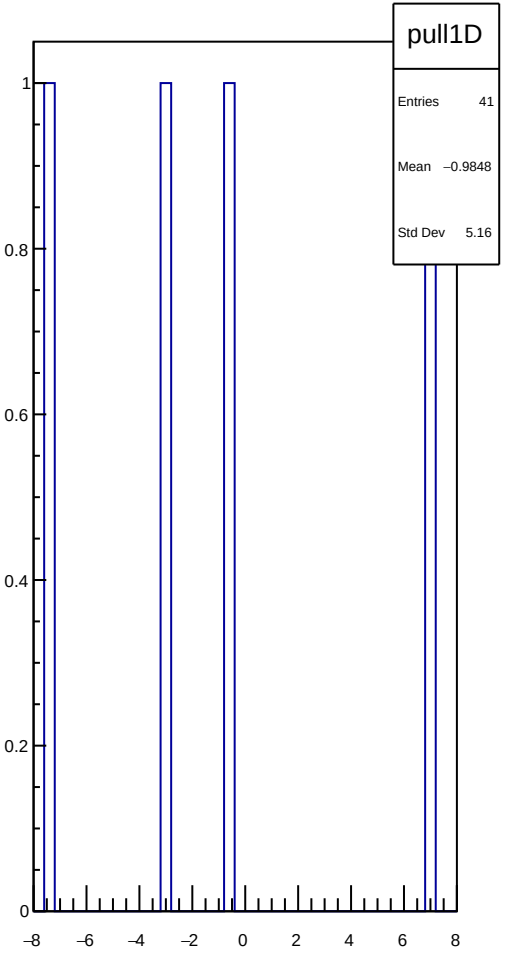

pull1D
Entries 41
Mean 0.05758
Std Dev 0.8973

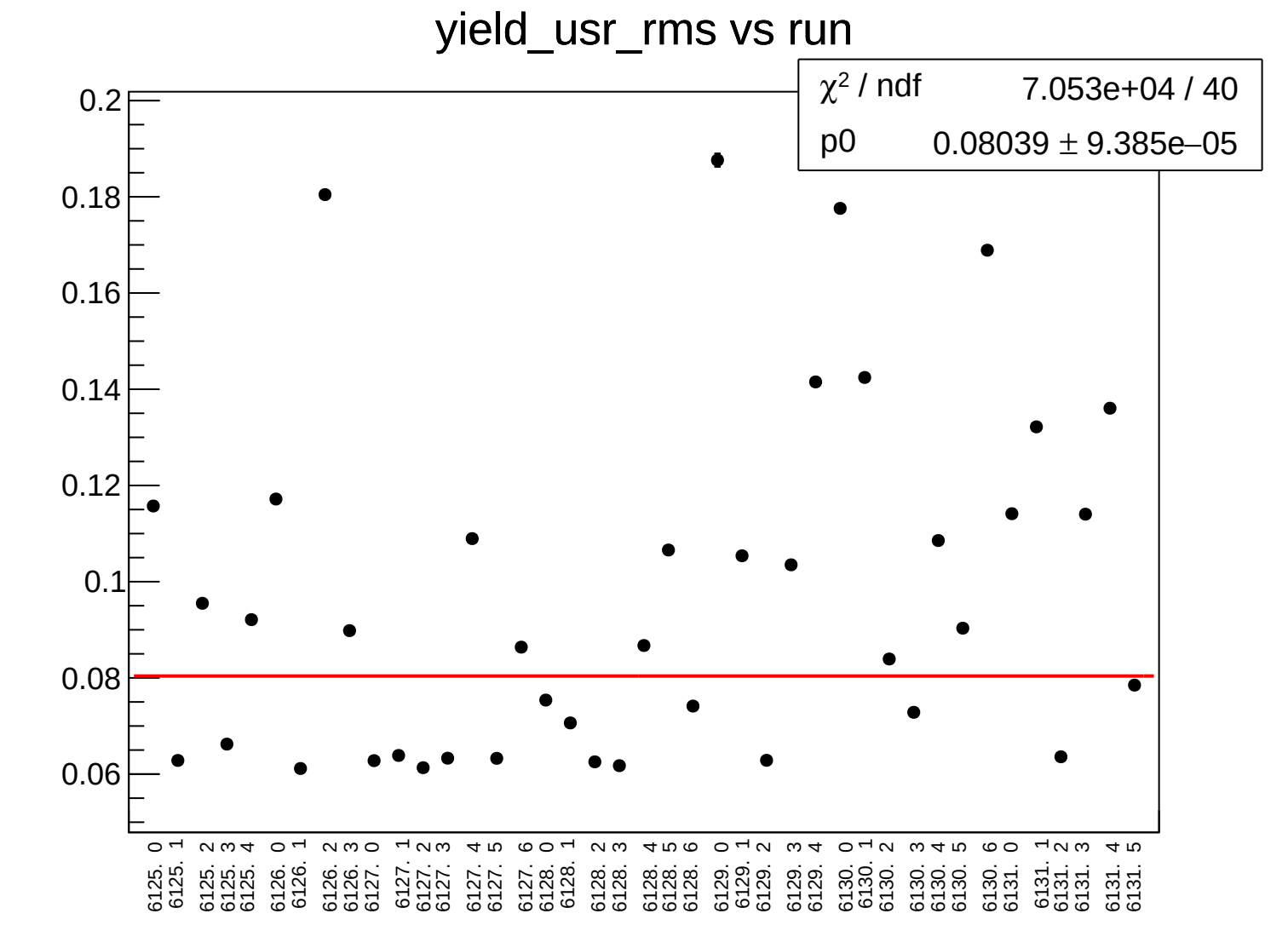

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.754e+05 / 40
p0 1.159e−11 ± 1.462e−14
50
45
40
35
30
25
20
15
10
5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

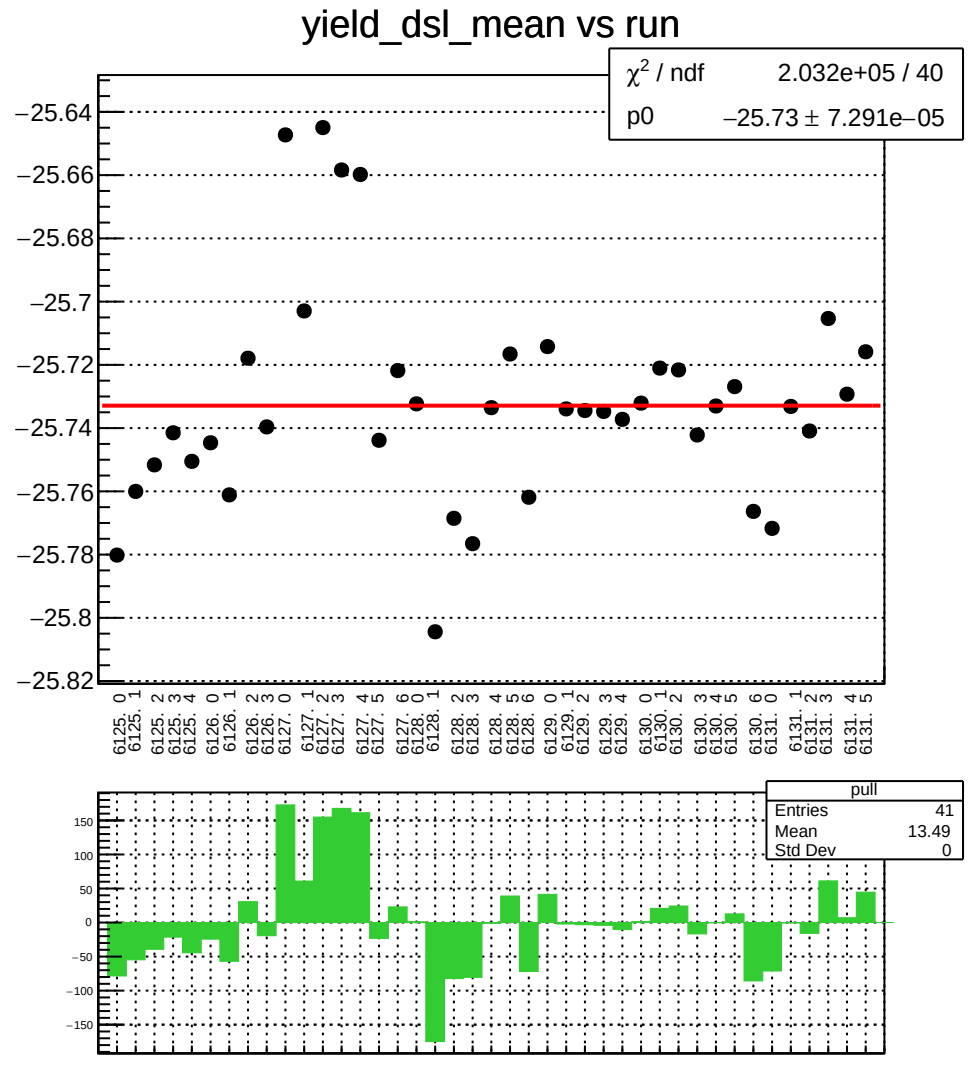

yield_usl_mean vs run
χ² / ndf 1.716e+05 / 40
p0 32.11± 9.118e−05
32.2
32.15
32.1
32.05
32
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 115.4
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 41
Mean −1.782
Std Dev 4.249
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

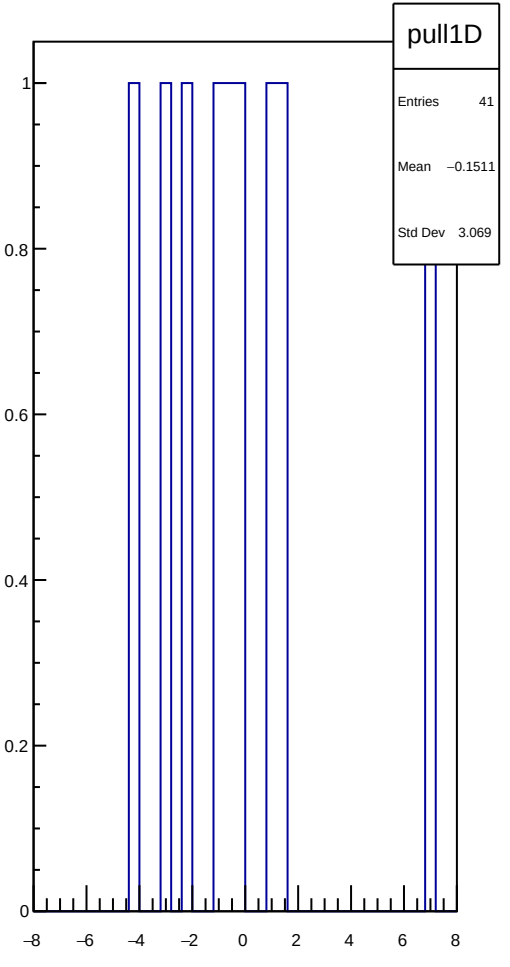

yield_usl_rms vs run
χ² / ndf 5.836e+04 / 40
p0 0.05568 ± 6.447e–05
0.14
0.12
0.1
0.08
0.06
0.04
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

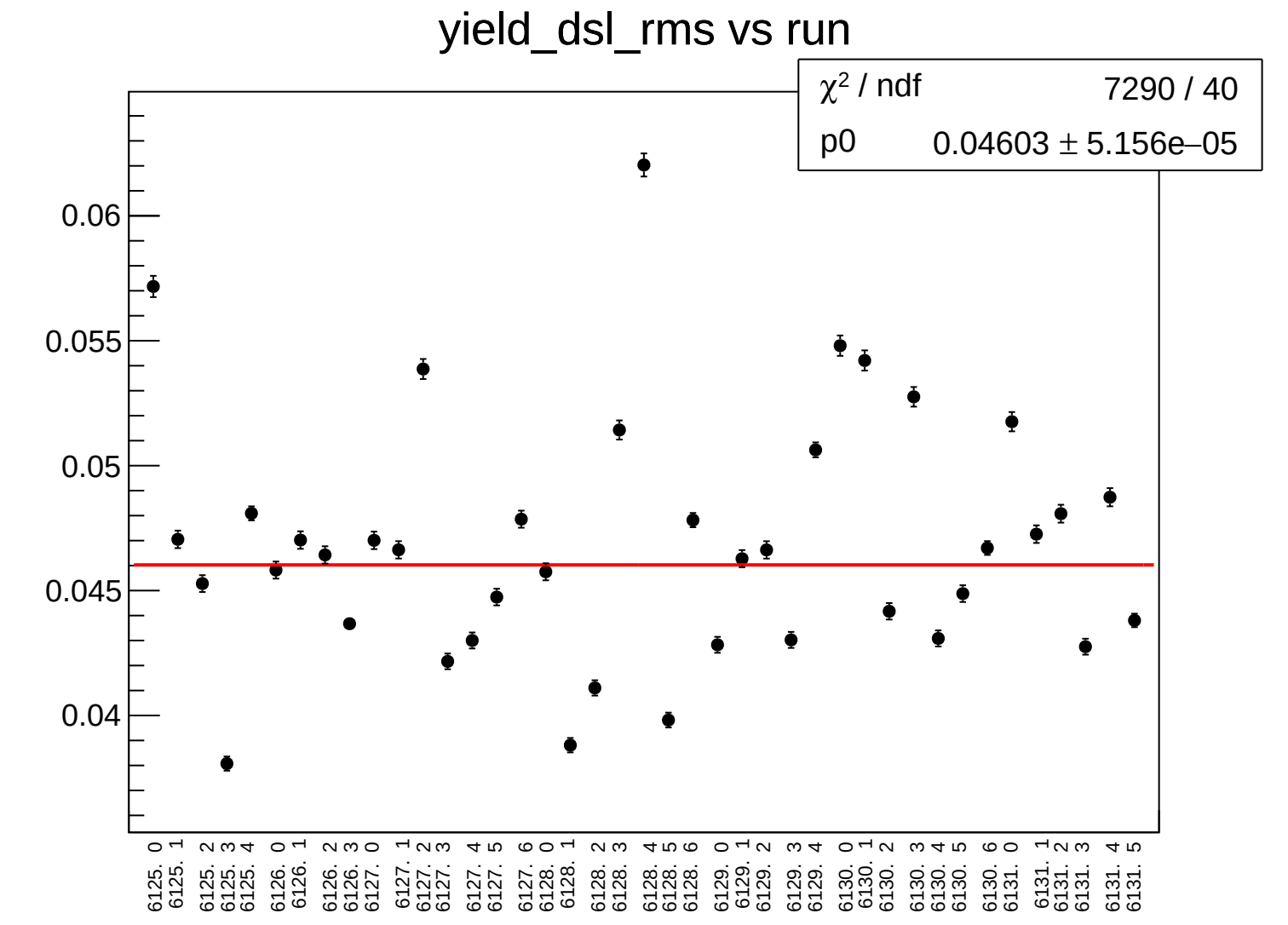

yield_usr_mean vs run
χ² / ndf 4.75e+04 / 40
p0 32.52 ± 0.0001327
32.62
32.6
32.58
32.56
32.54
32.52
32.5
32.48
32.46
32.44
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 169.8
Std Dev 0
80
60
40
20
0
−20
−40
−60

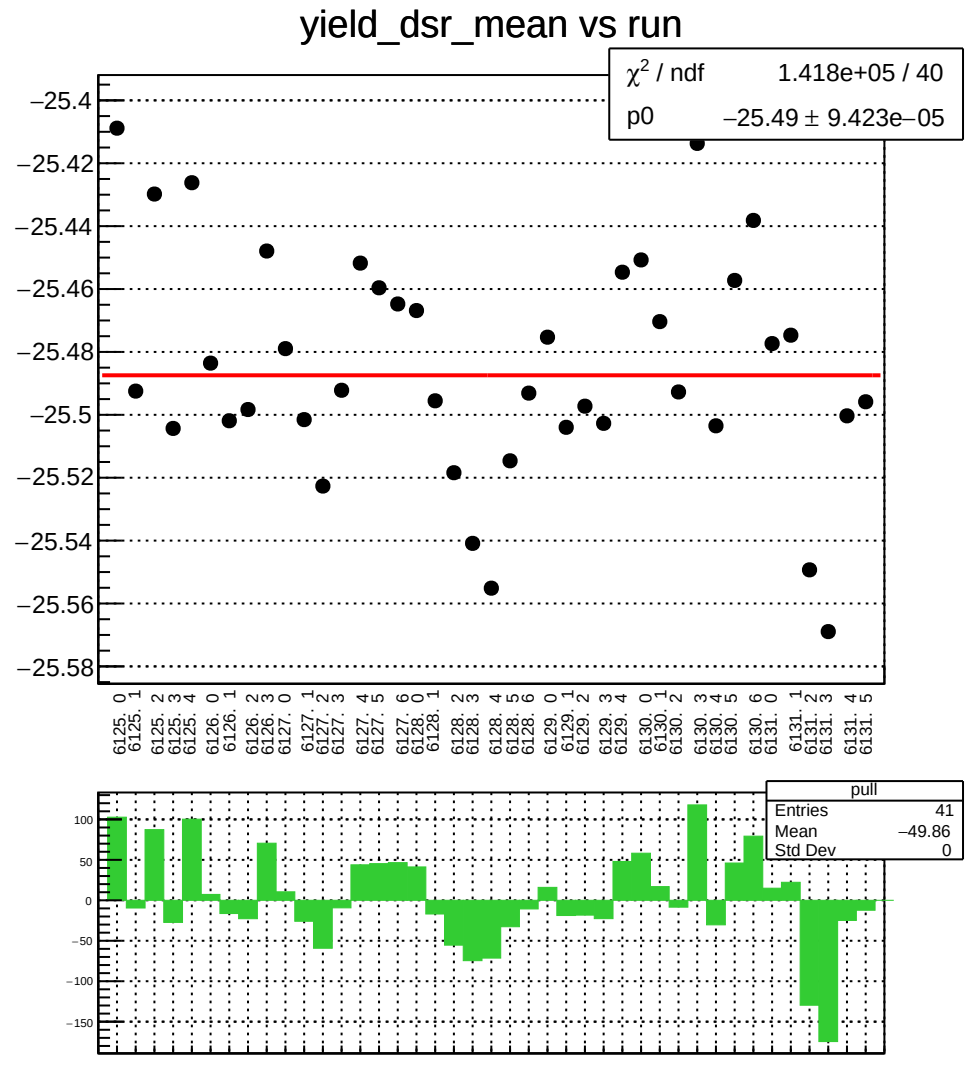

pull1D
Entries 41
Mean −0.9848
Std Dev 5.16
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

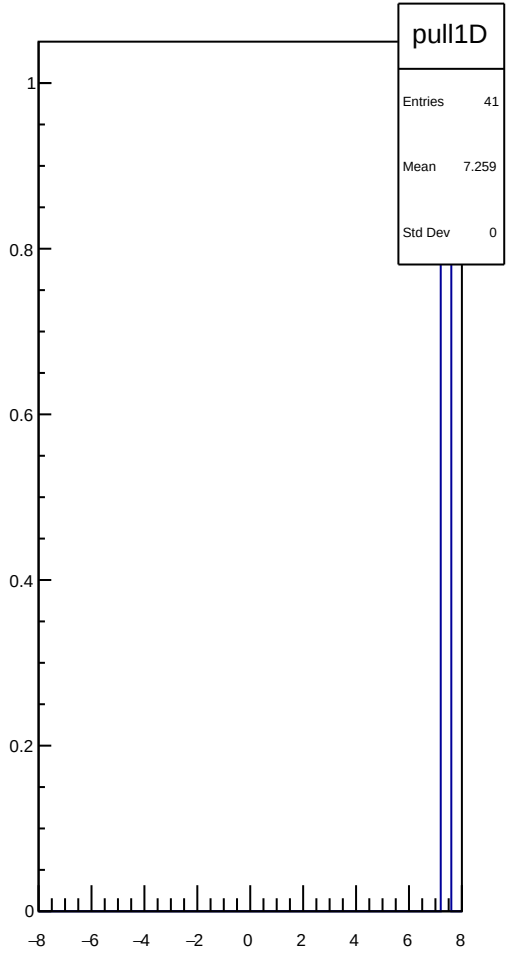

yield_usr_rms vs run
χ² / ndf 7.053e+04 / 40
p0 0.08039 ± 9.385e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

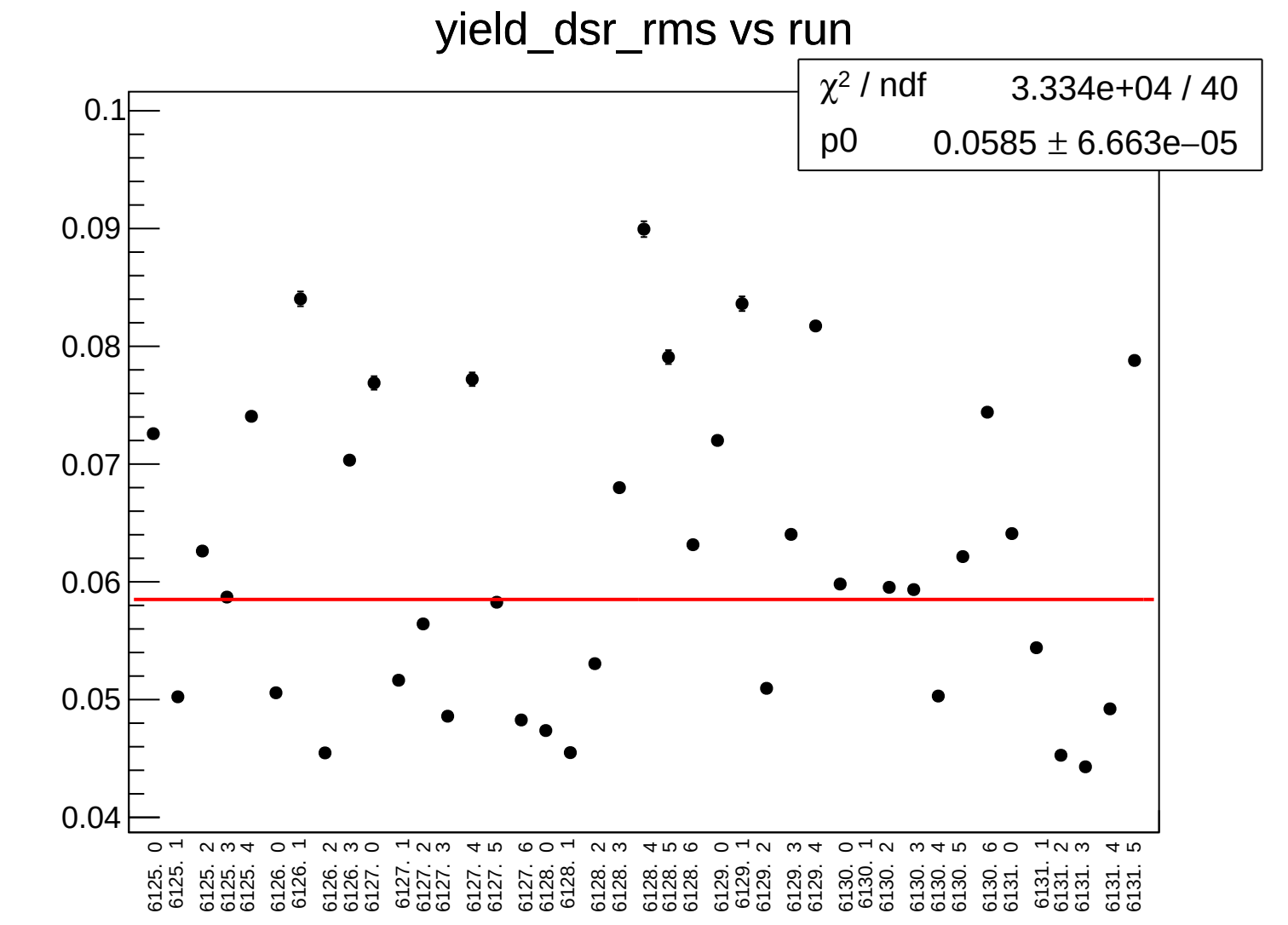

yield_dsl_mean vs run
χ² / ndf 2.032e+05 / 40
p0 −25.73 ± 7.291e−05
−25.64
−25.66
−25.68
−25.7
−25.72
−25.74
−25.76
−25.78
−25.8
−25.82
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 13.49
Std Dev 0
150
100
50
0
−50
−100
−150

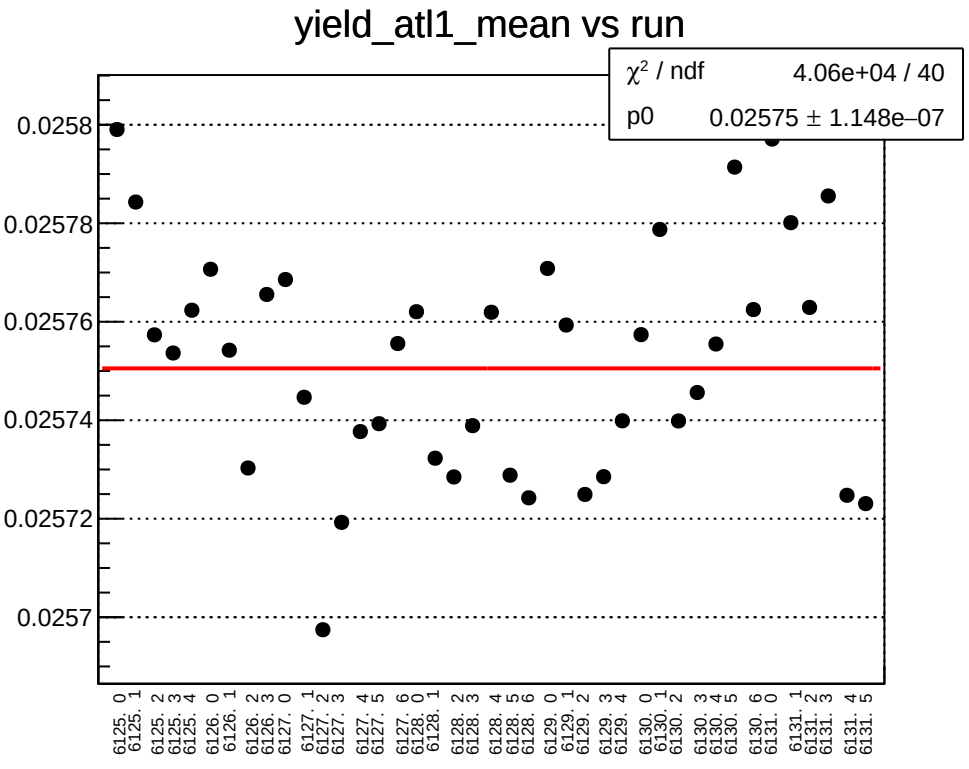

pull1D
Entries 41
Mean −0.1511
Std Dev 3.069
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

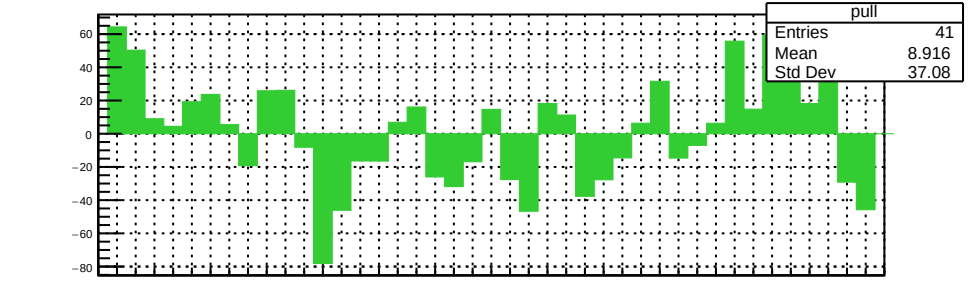

yield_dsl_rms vs run
χ² / ndf 7290 / 40
p0 0.04603 ± 5.156e–05
0.06
0.055
0.05
0.045
0.04
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

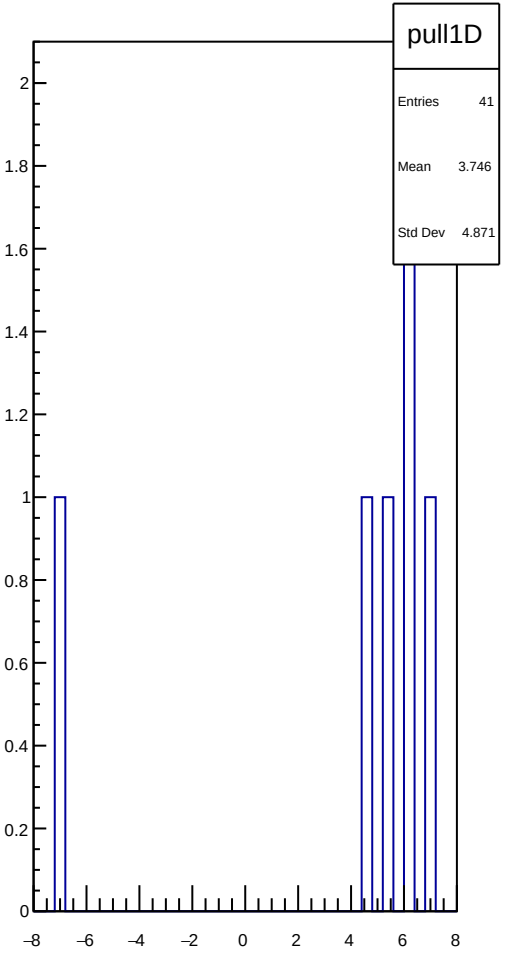

yield_dsr_mean vs run
χ² / ndf 1.418e+05 / 40
p0 −25.49 ± 9.423e−05
−25.4
−25.42
−25.44
−25.46
−25.48
−25.5
−25.52
−25.54
−25.56
−25.58
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −49.86
Std Dev 0
100
50
0
−50
−100
−150

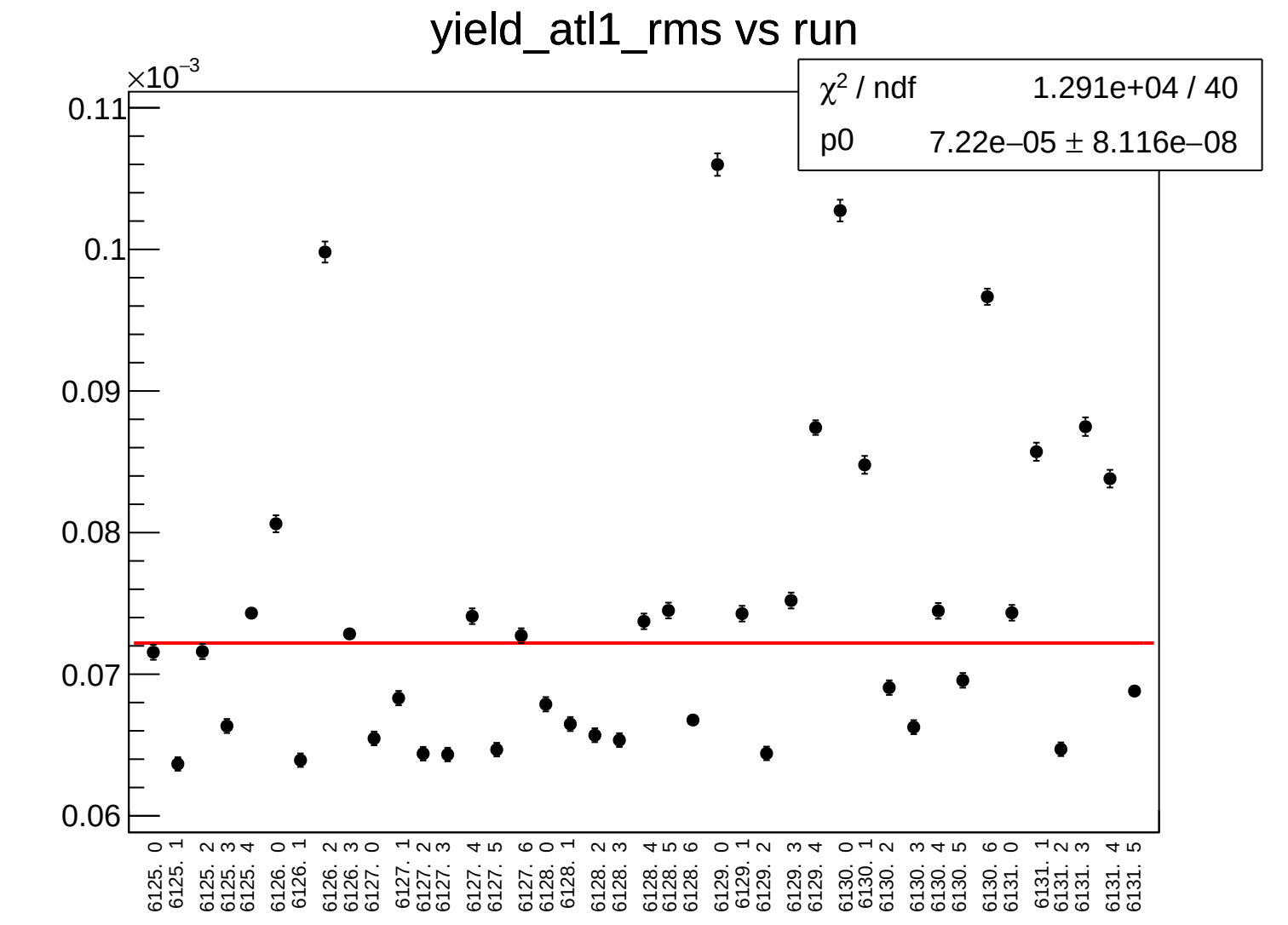

pull1D
Entries 41
Mean 7.259
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

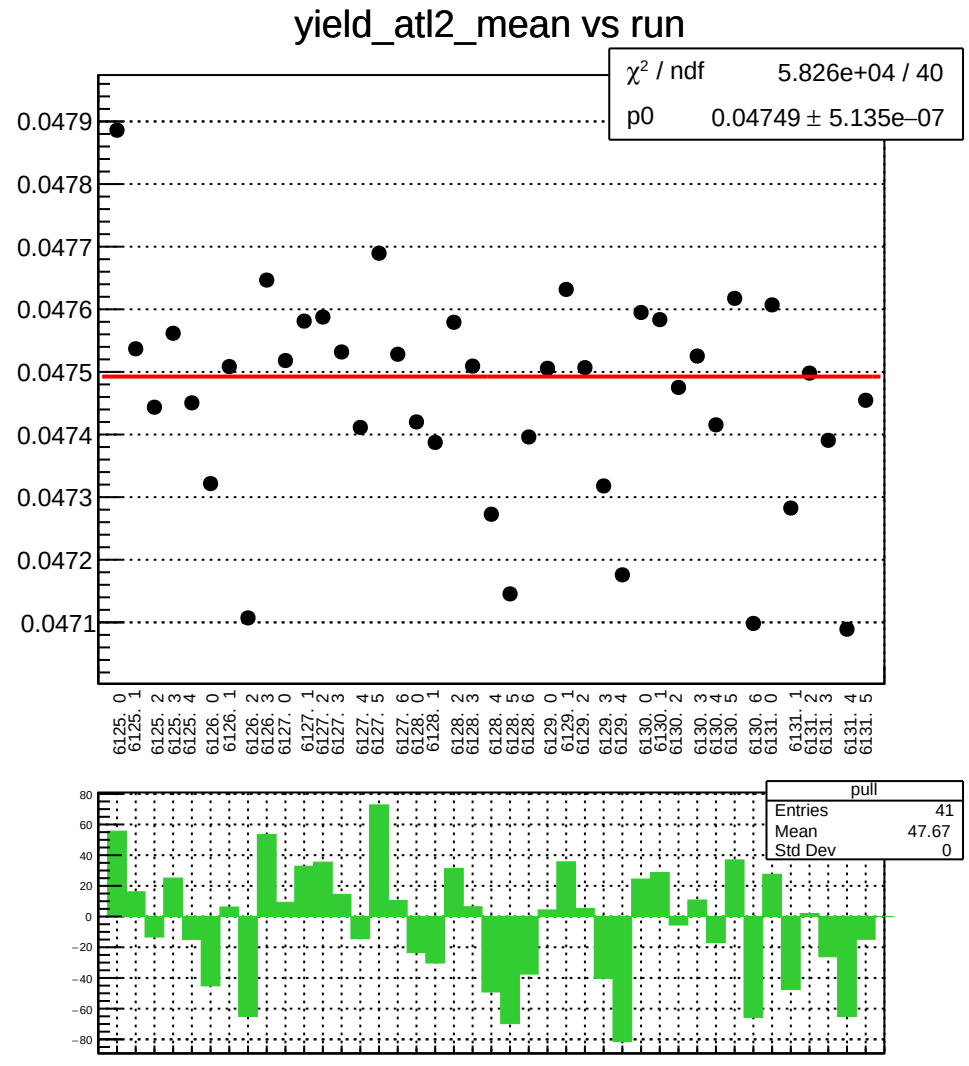

yield_dsr_rms vs run
χ² / ndf 3.334e+04 / 40
p0 0.0585 ± 6.663e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

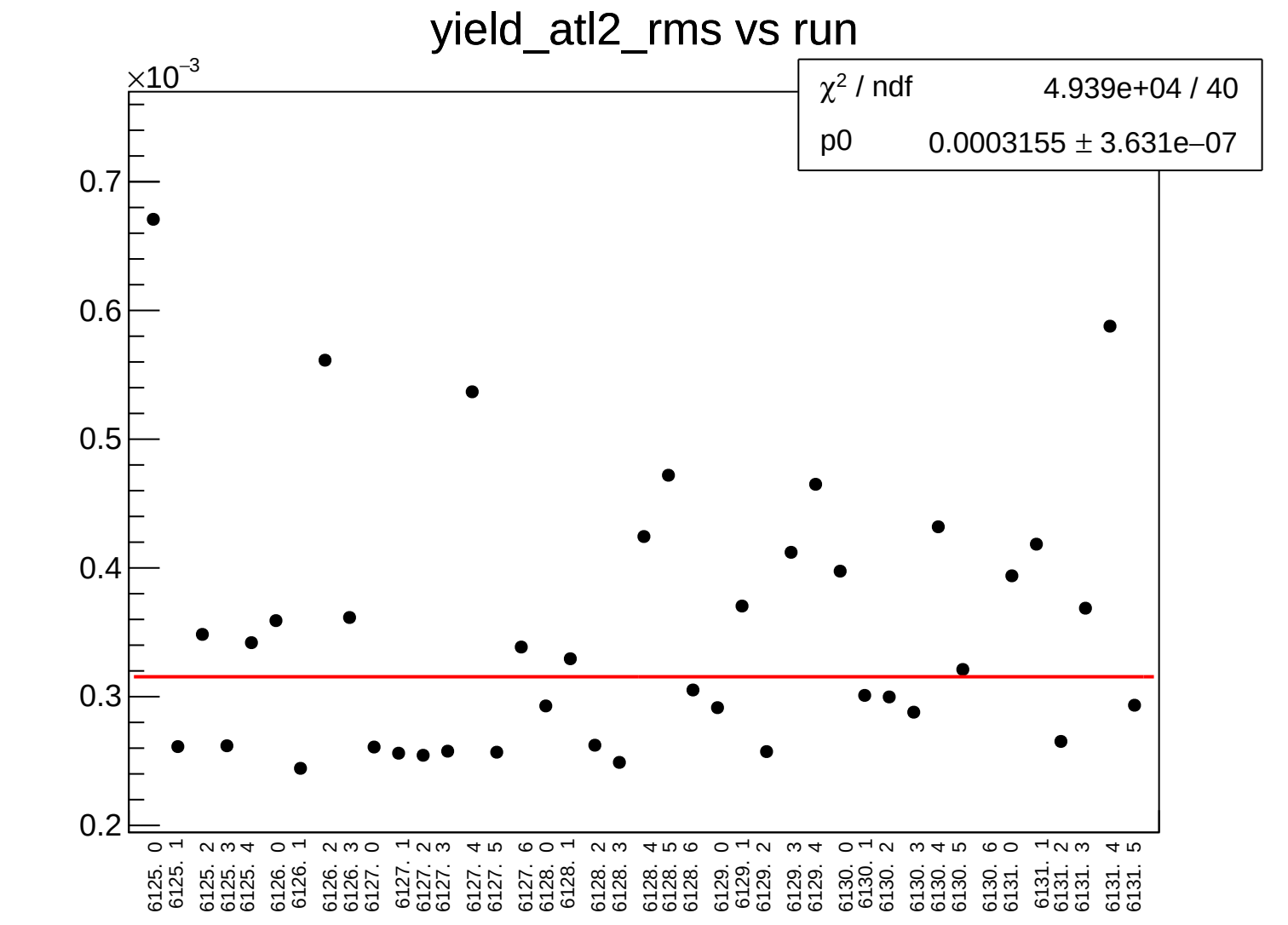

yield_atl1_mean vs run
χ² / ndf 4.06e+04 / 40
p0 0.02575 ± 1.148e−07
0.0258
0.02578
0.02576
0.02574
0.02572
0.0257
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

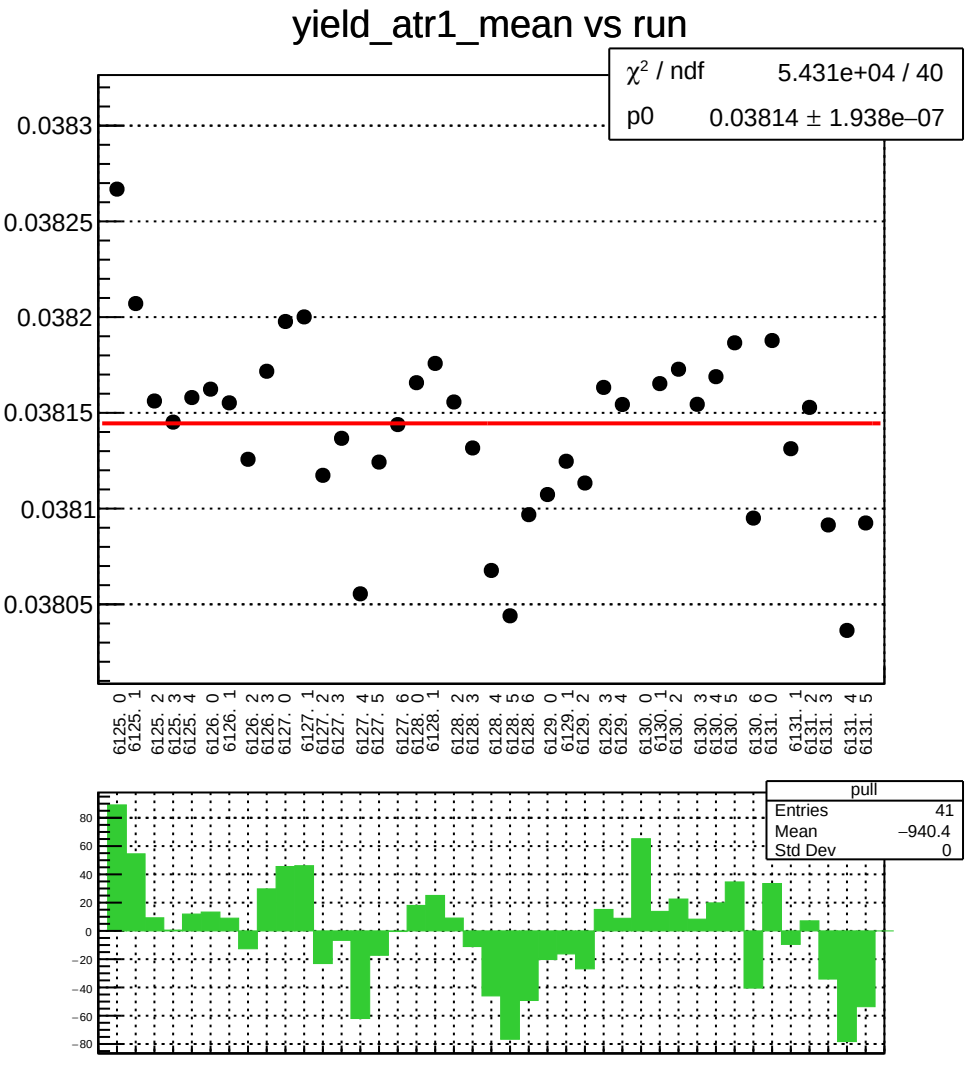

pull
Entries 41
Mean 8.916
Std Dev 37.08
60
40
20
0
−20
−40
−60
−80

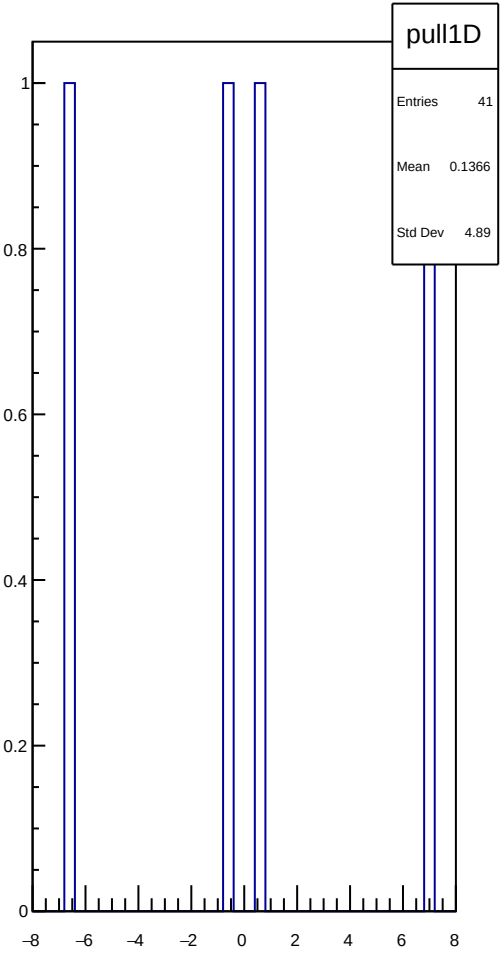

pull1D
Entries 41
Mean 3.746
Std Dev 4.871
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

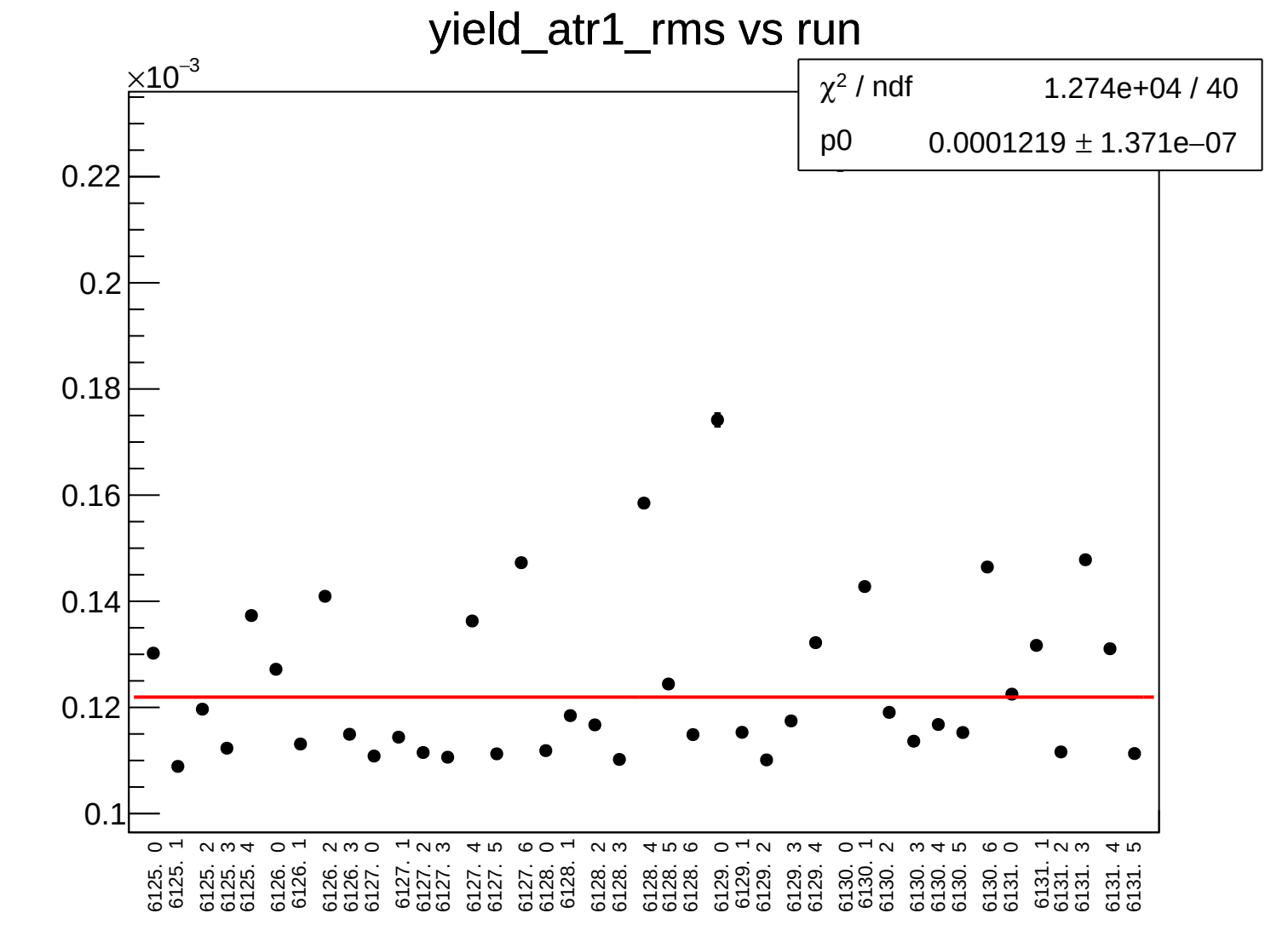

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.291e+04 / 40
p0 7.22e−05 ± 8.116e−08
0.11
0.1
0.09
0.08
0.07
0.06
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

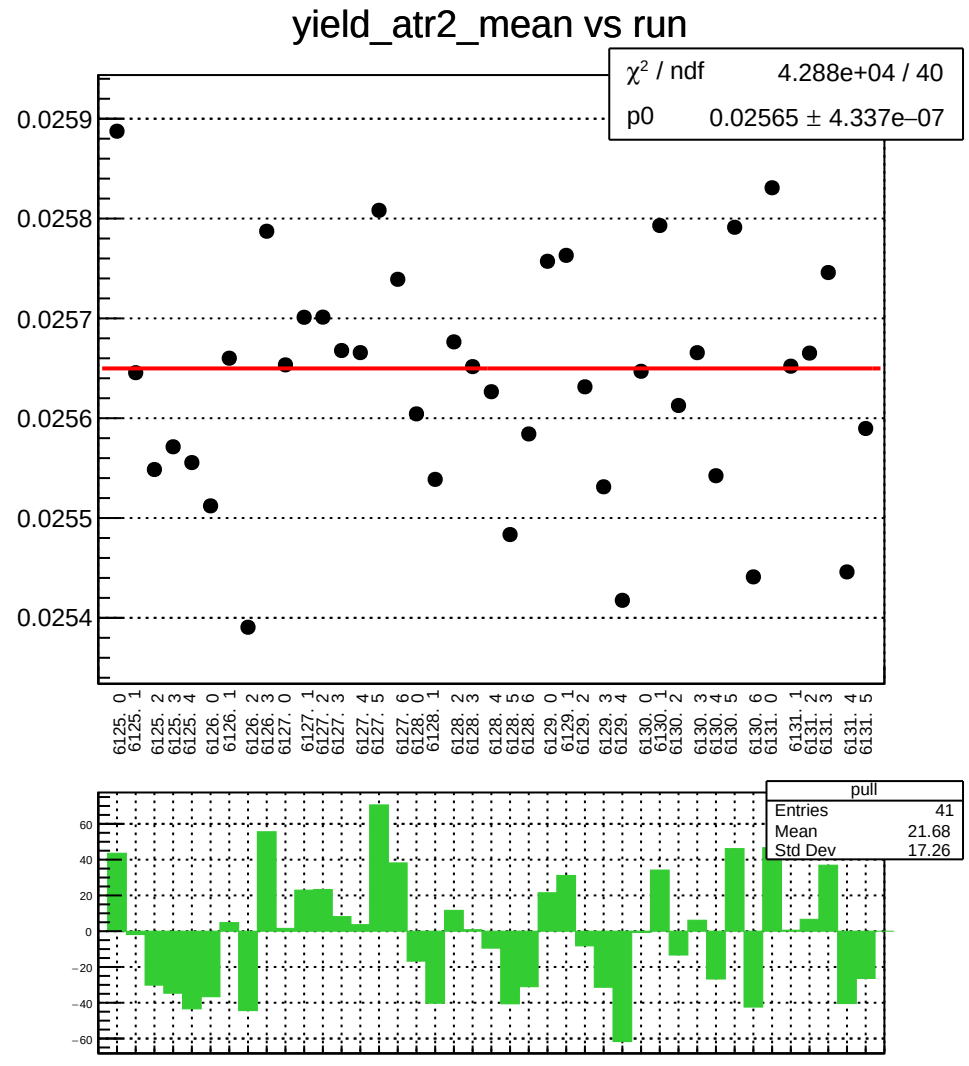

yield_atl2_mean vs run
χ² / ndf 5.826e+04 / 40
p0 0.04749 ± 5.135e−07
0.0479
0.0478
0.0477
0.0476
0.0475
0.0474
0.0473
0.0472
0.0471
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 47.67
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 41
Mean 3.109
Std Dev 4.112
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

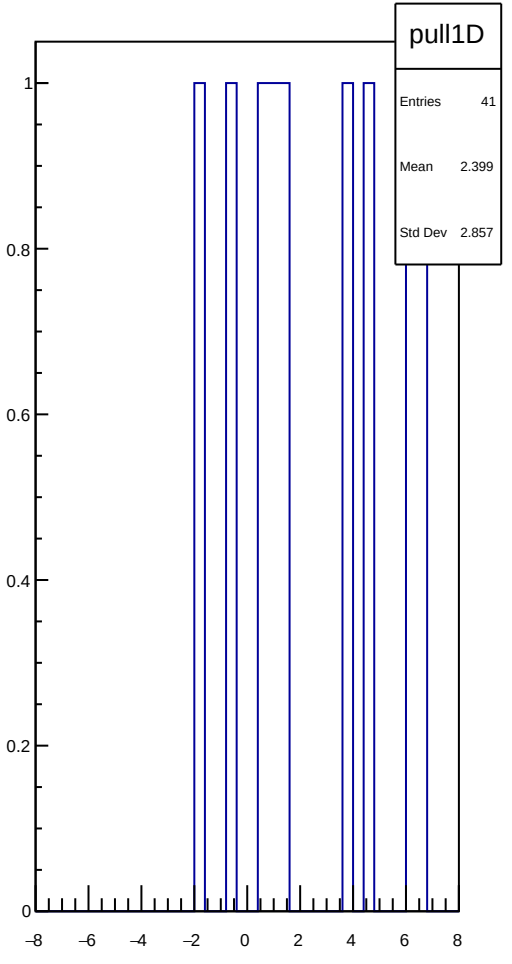

yield_atl2_rms vs run
×10⁻³
χ² / ndf 4.939e+04 / 40
p0 0.0003155 ± 3.631e−07
0.7
0.6
0.5
0.4
0.3
0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

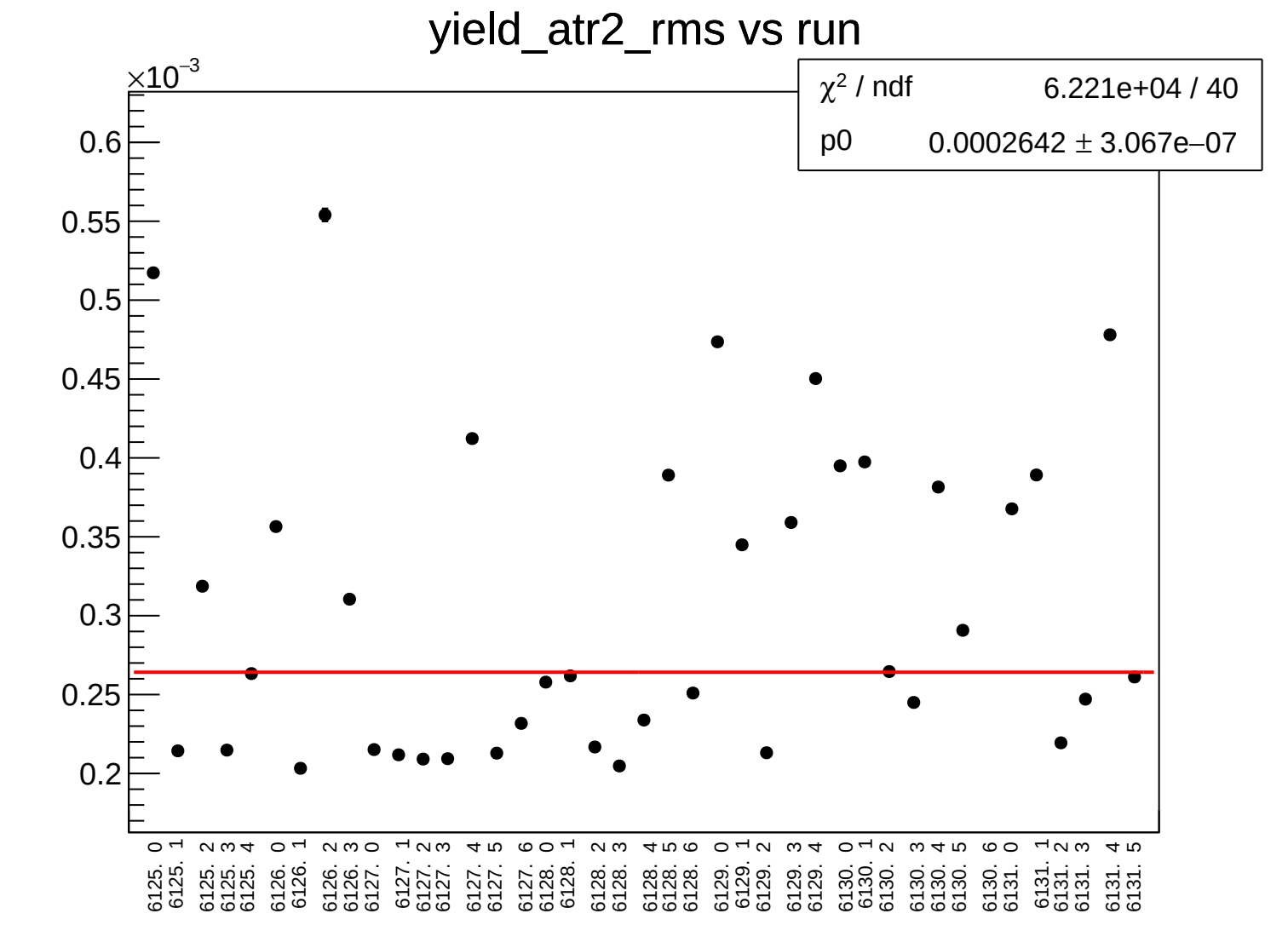

yield_atr1_mean vs run
χ² / ndf 5.431e+04 / 40
p0 0.03814 ± 1.938e−07
0.0383
0.03825
0.0382
0.03815
0.0381
0.03805
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −940.4
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

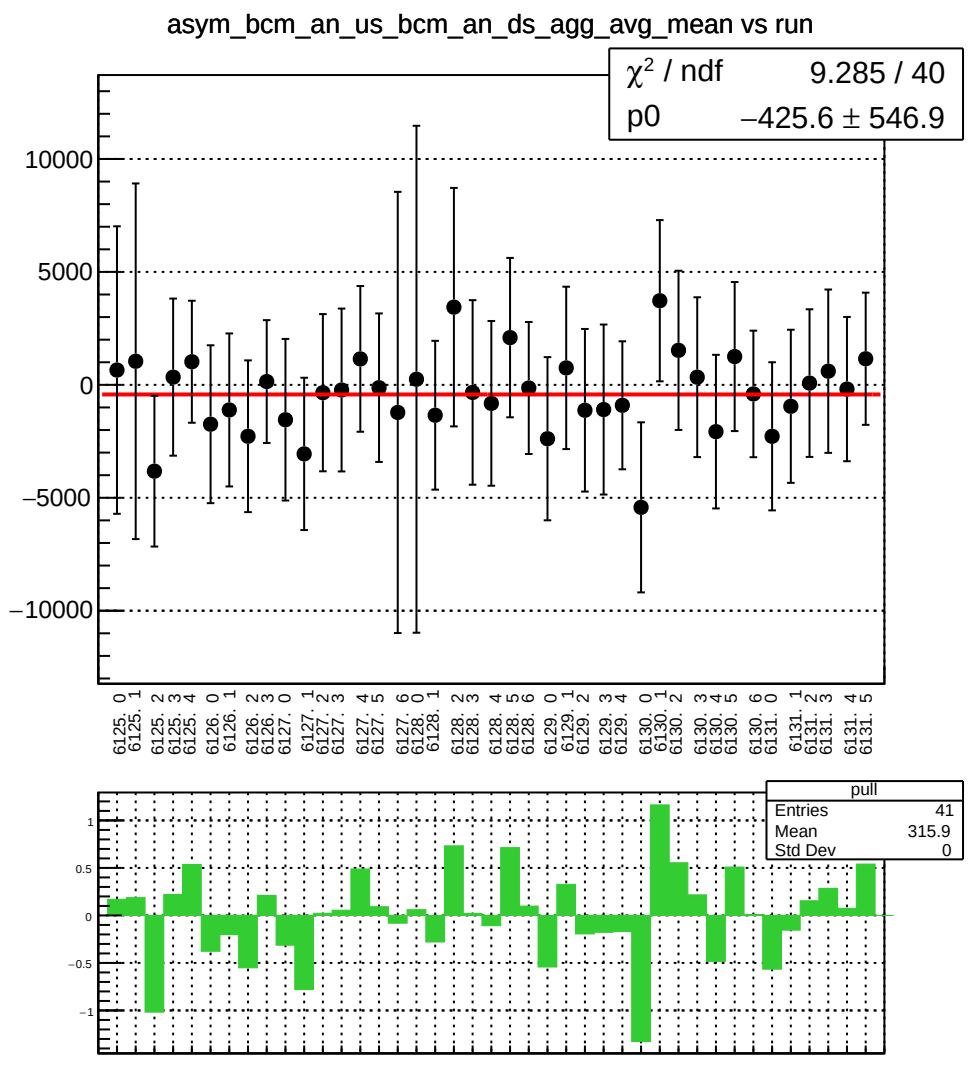

pull1D
Entries 41
Mean 0.1366
Std Dev 4.89
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

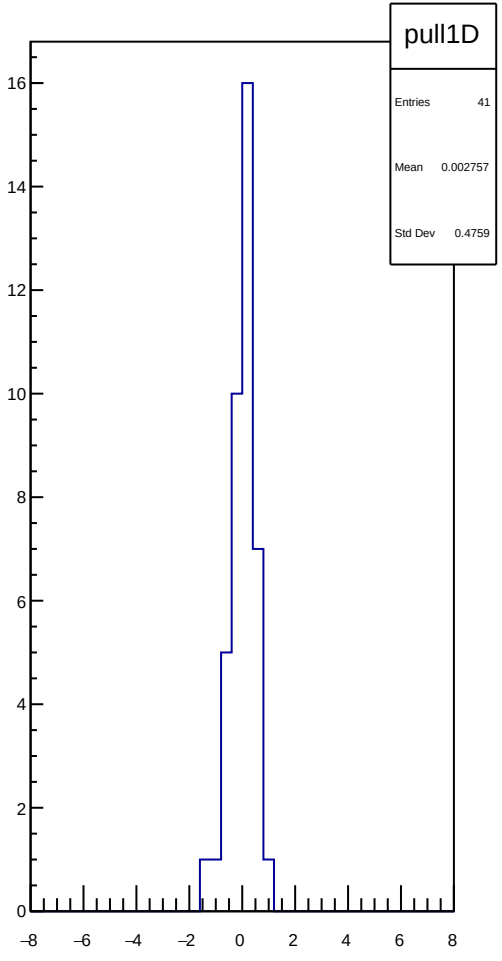

yield_atr1_rms vs run
×10⁻³
χ² / ndf 1.274e+04 / 40
p0 0.0001219 ± 1.371e−07
0.22
0.2
0.18
0.16
0.14
0.12
0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

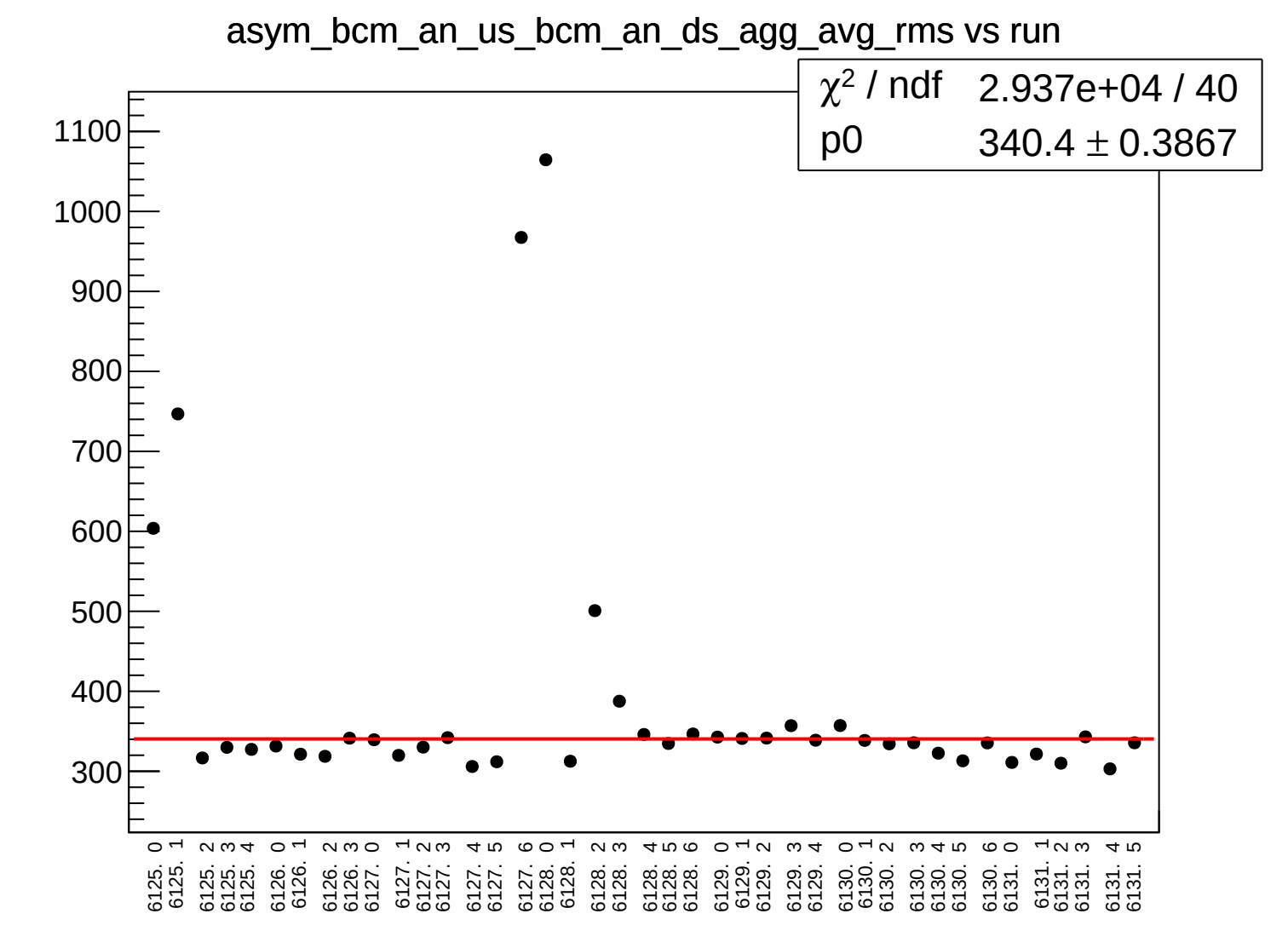

yield_atr2_mean vs run
χ² / ndf 4.288e+04 / 40
p0 0.02565 ± 4.337e−07
0.0259
0.0258
0.0257
0.0256
0.0255
0.0254
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 21.68
Std Dev 17.26
60
40
20
0
−20
−40
−60

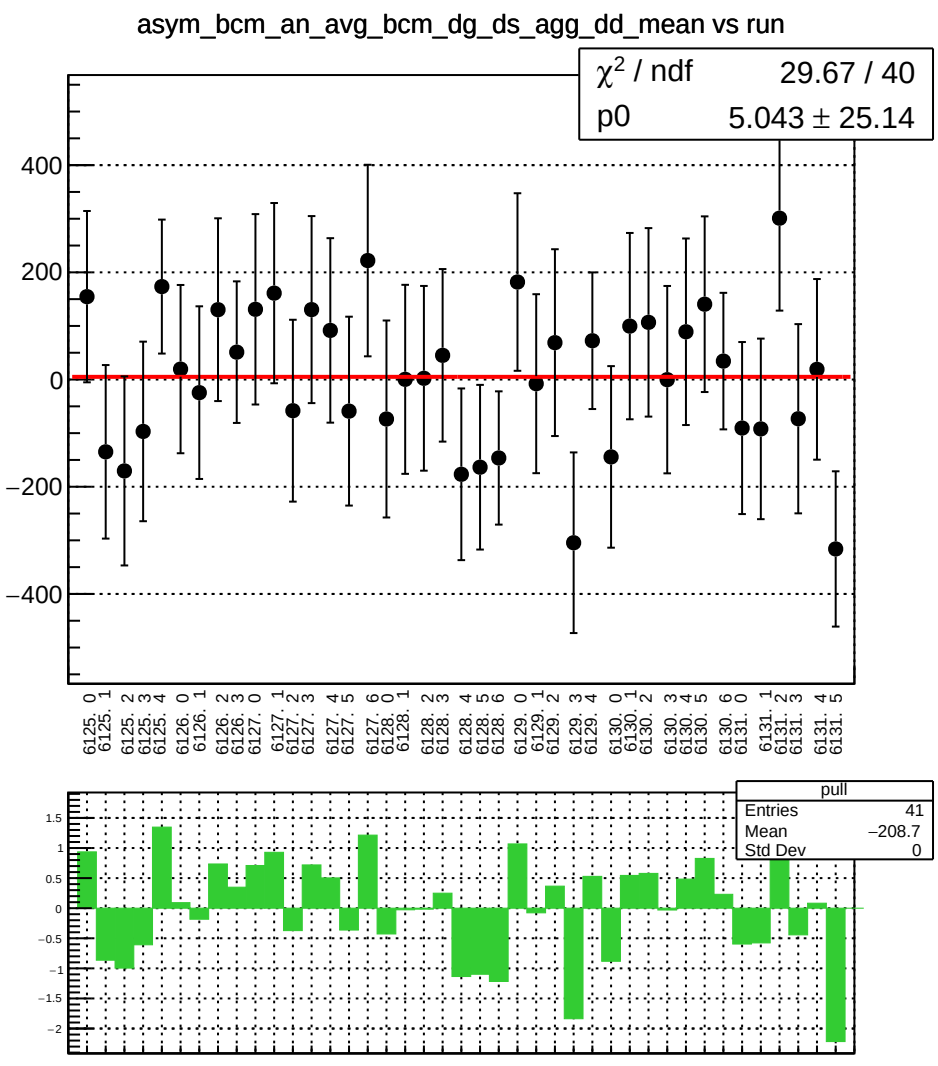

pull1D
Entries 41
Mean 2.399
Std Dev 2.857
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

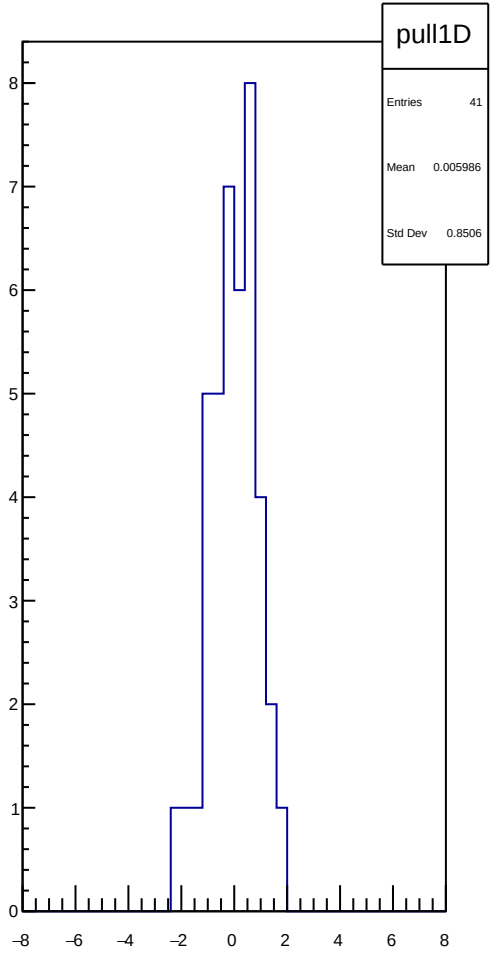

yield_atr2_rms vs run
×10⁻³
χ² / ndf 6.221e+04 / 40
p0 0.0002642 ± 3.067e−07
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

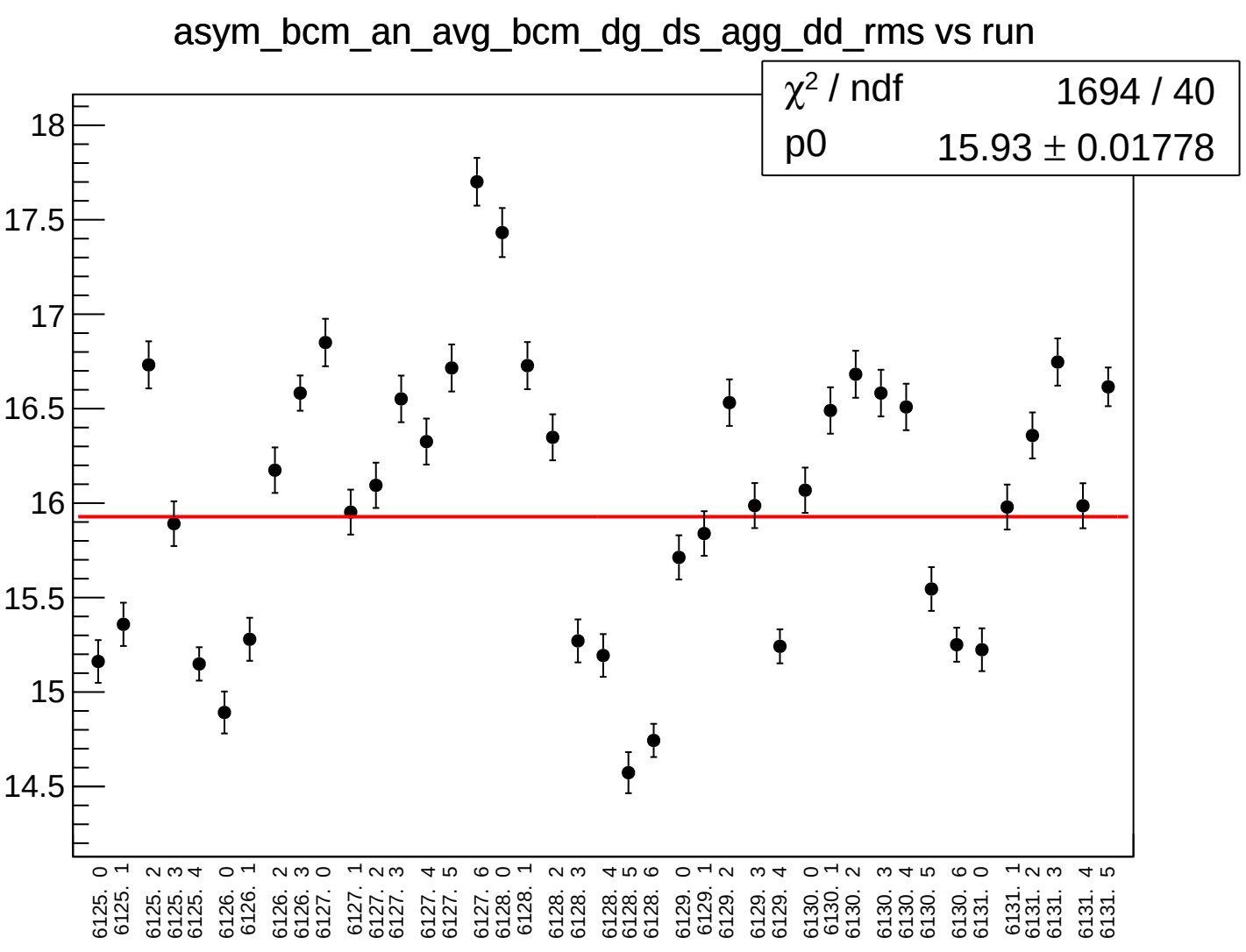

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 9.285 / 40
p0 −425.6 ± 546.9
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 315.9
Std Dev 0
1
0.5
0
−0.5
−1

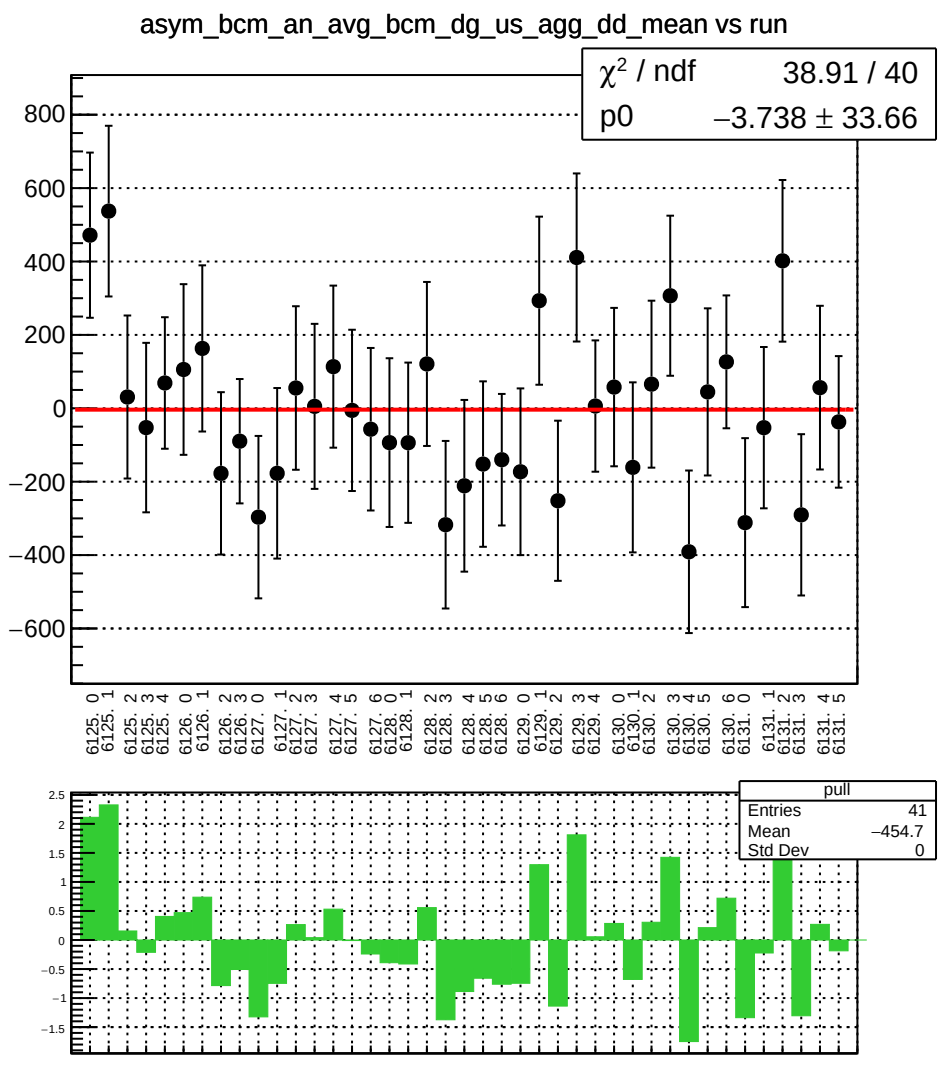

pull1D
Entries 41
Mean 0.002757
Std Dev 0.4759
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

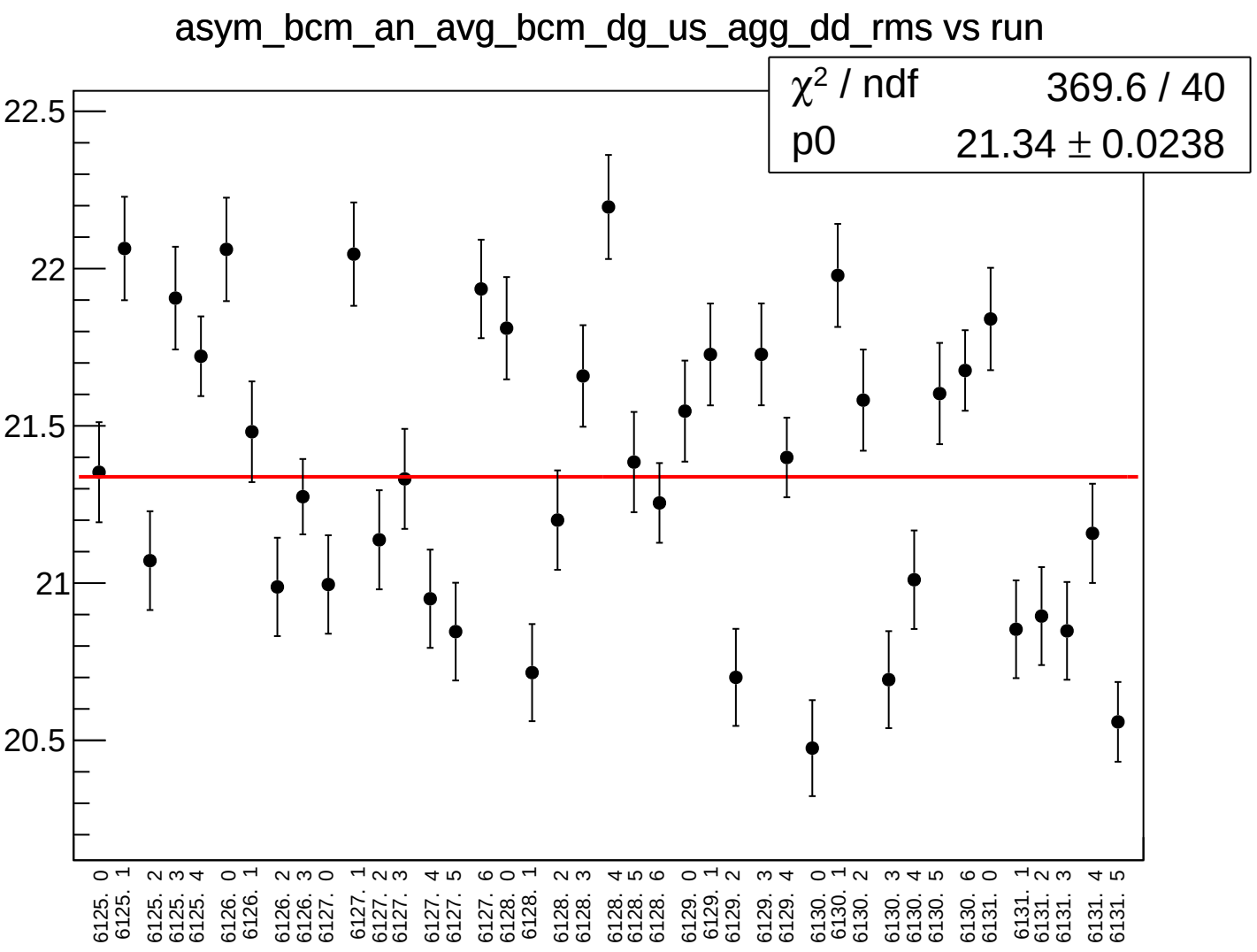

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.937e+04 / 40
p0 340.4 ± 0.3867
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

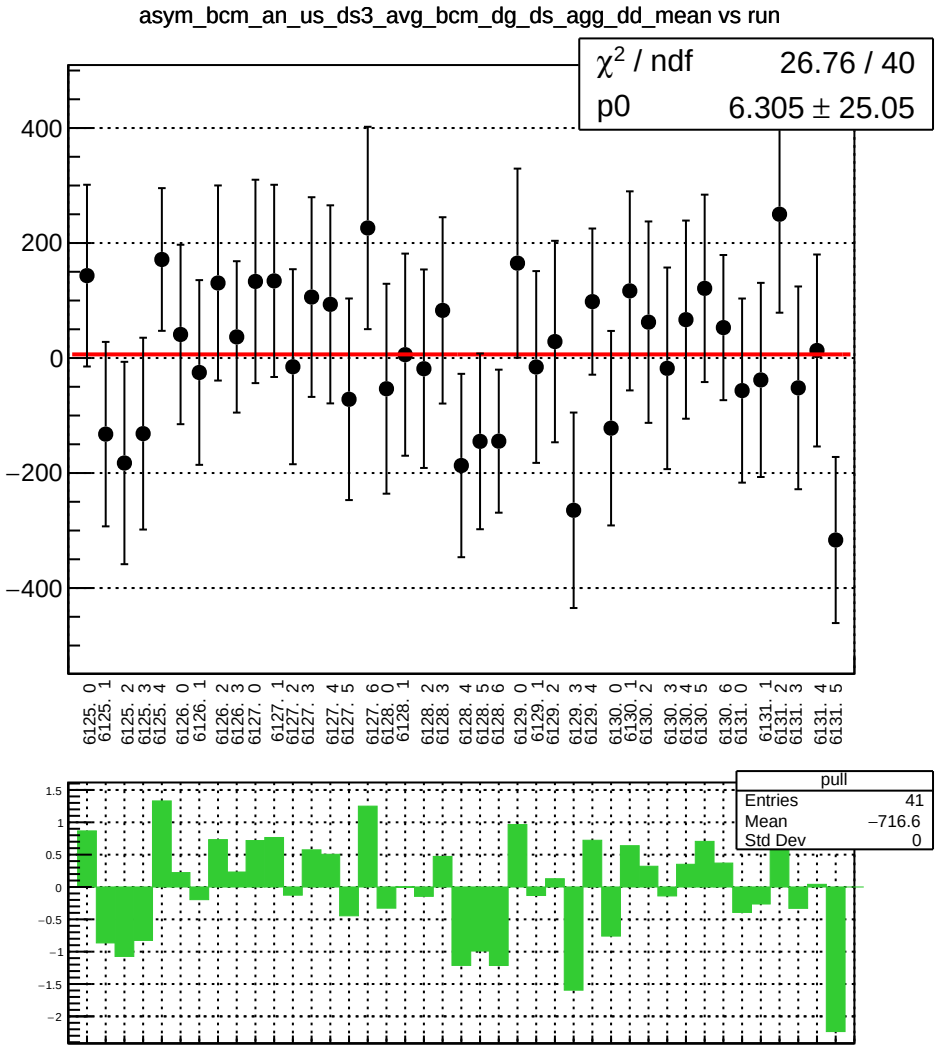

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 29.67 / 40
p0 5.043 ± 25.14
400
200
0
−200
−400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −208.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

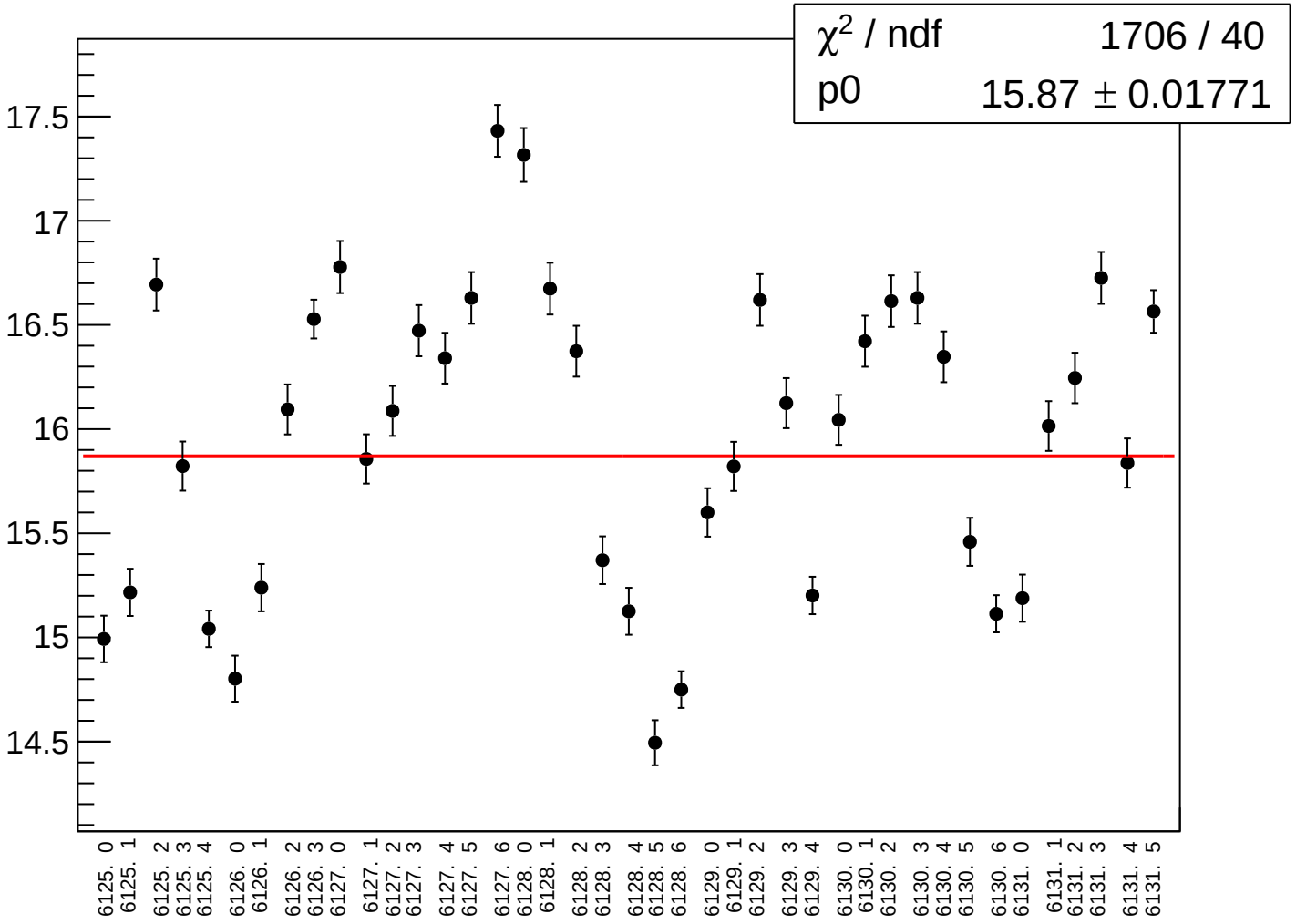

pull1D
Entries 41
Mean 0.005986
Std Dev 0.8506
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

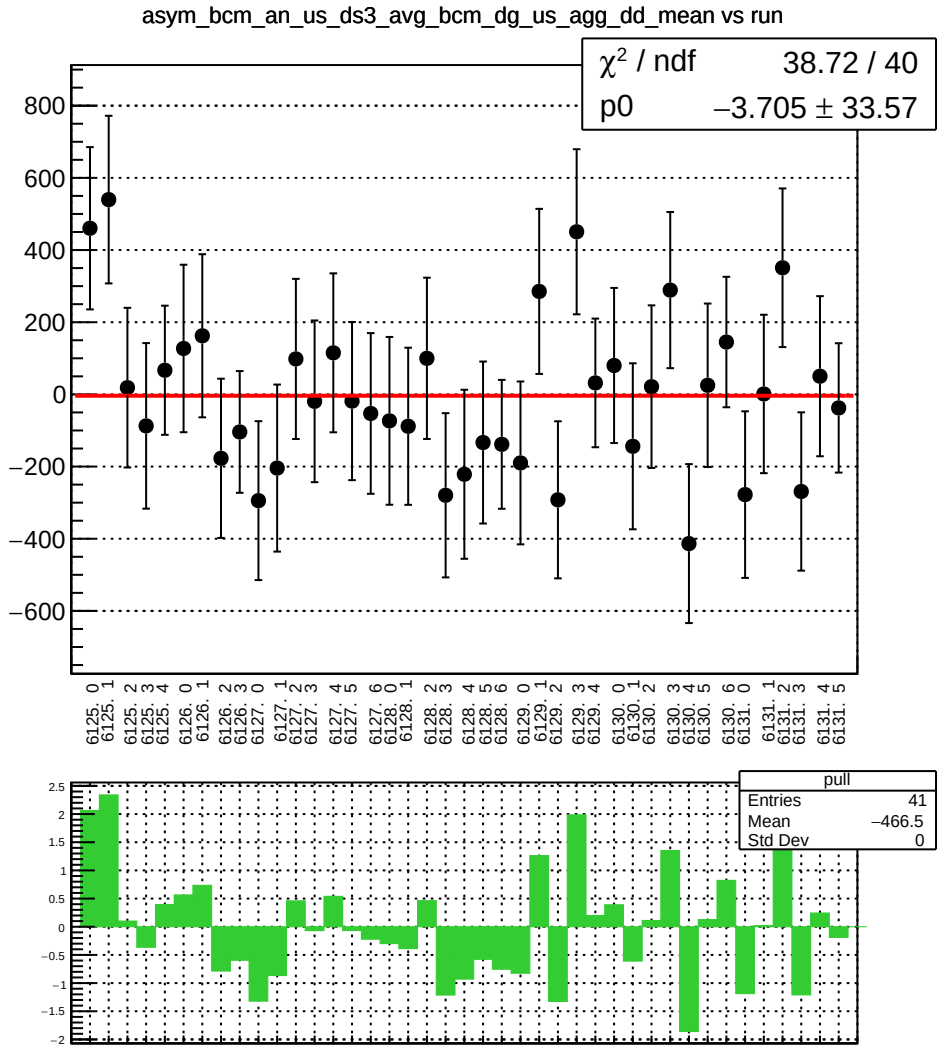

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1694 / 40
p0 15.93 ± 0.01778
18
17.5
17
16.5
16
15.5
15
14.5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

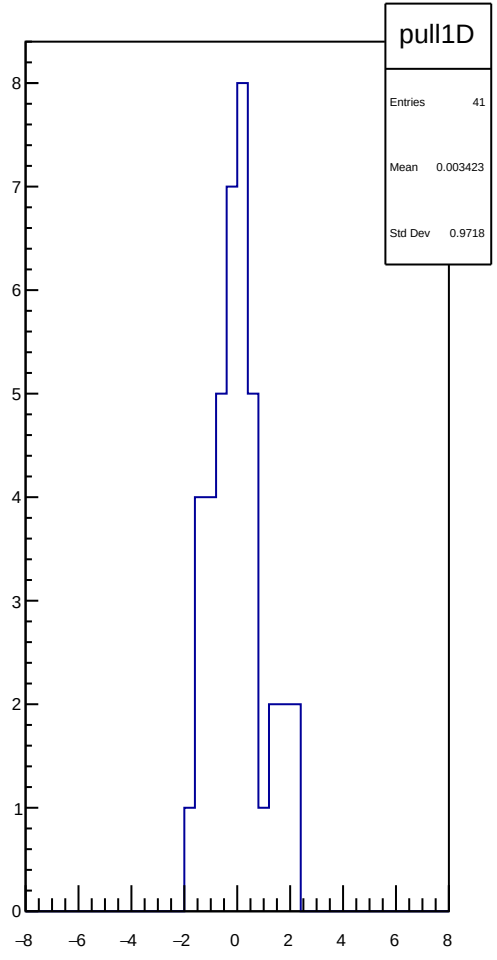

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 38.91 / 40
p0 −3.738 ± 33.66
800
600
400
200
0
−200
−400
−600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −454.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.003831
Std Dev 0.9742
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

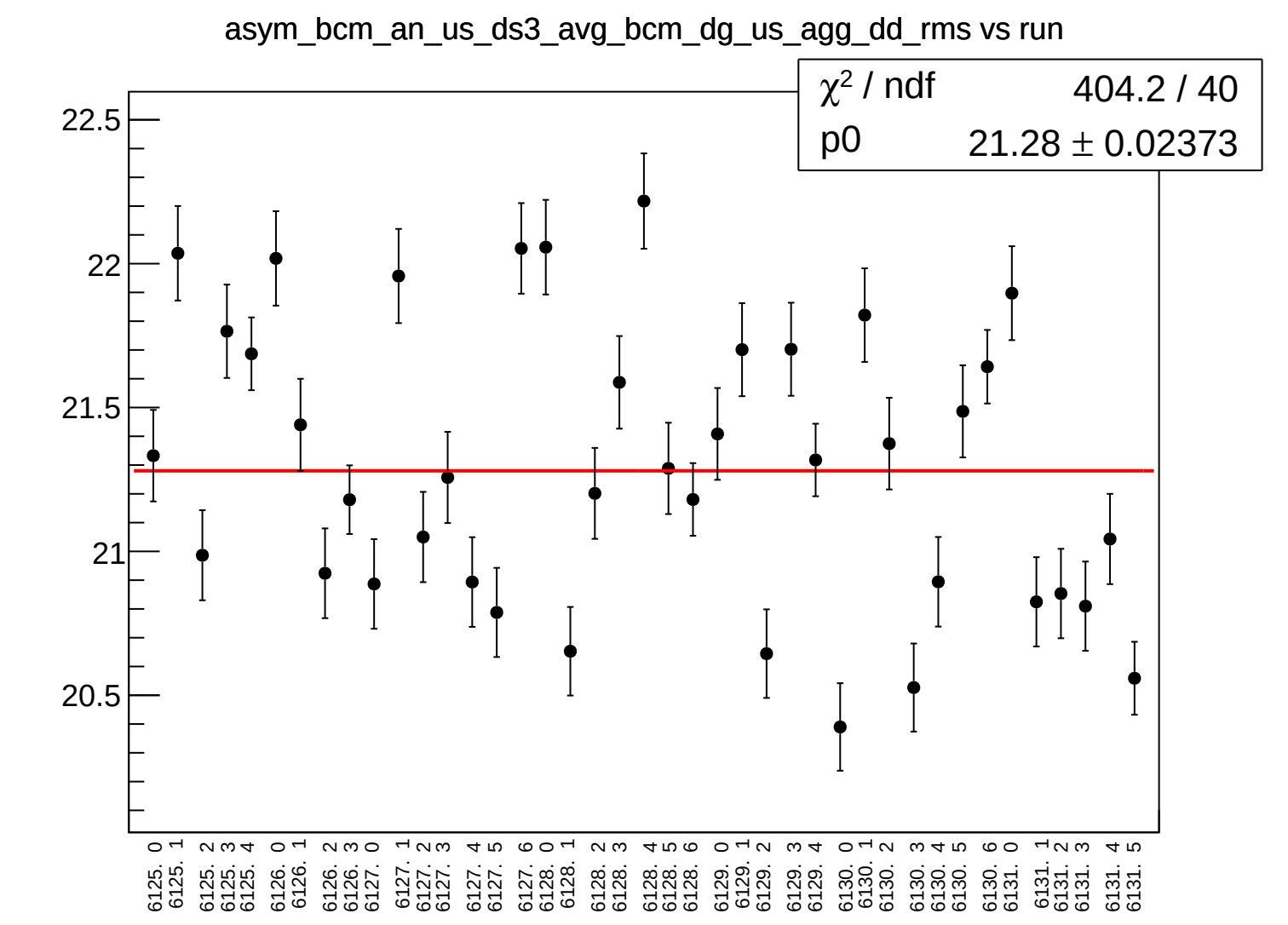

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 369.6 / 40
p0 21.34 ± 0.0238
22.5
22
21.5
21
20.5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

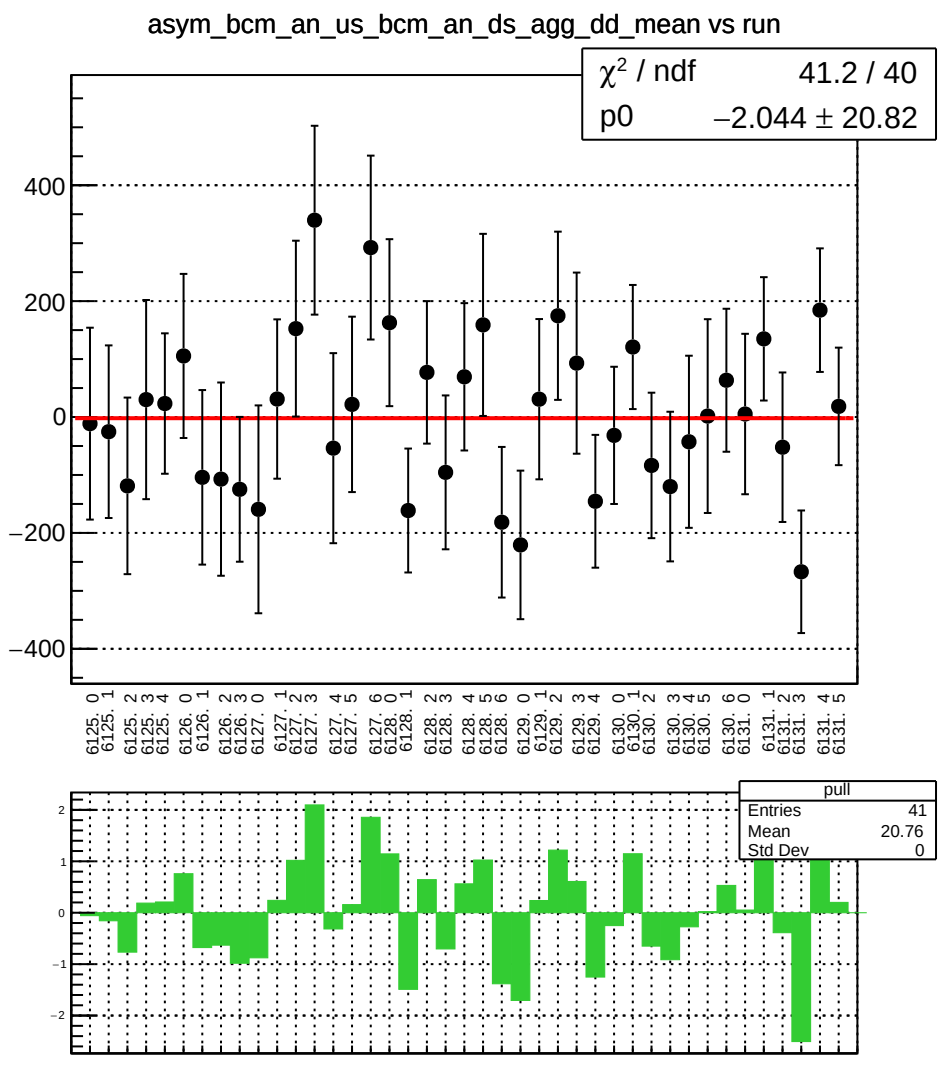

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 26.76 / 40
p0 6.305 ± 25.05
400
200
0
−200
−400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −716.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.001571
Std Dev 0.8079
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

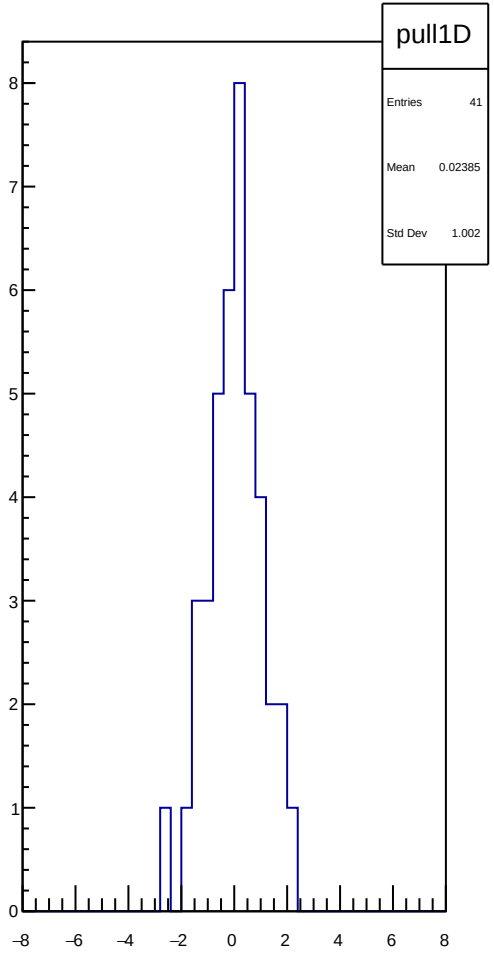

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1706 / 40
p0 15.87 ± 0.01771
17.5
17
16.5
16
15.5
15
14.5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

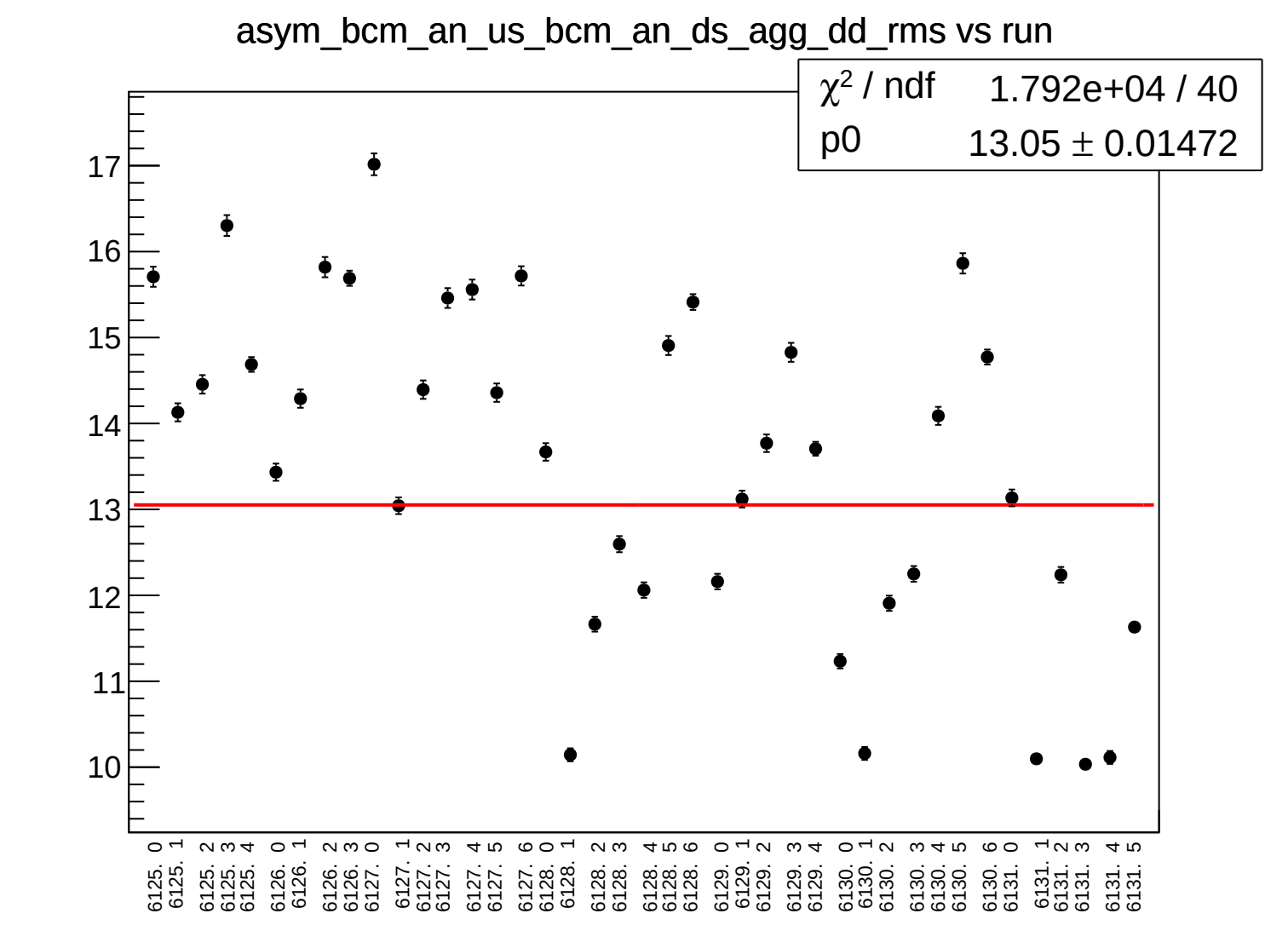

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 38.72 / 40
p0 −3.705 ± 33.57
pull
Entries 41
Mean −466.5
Std Dev 0

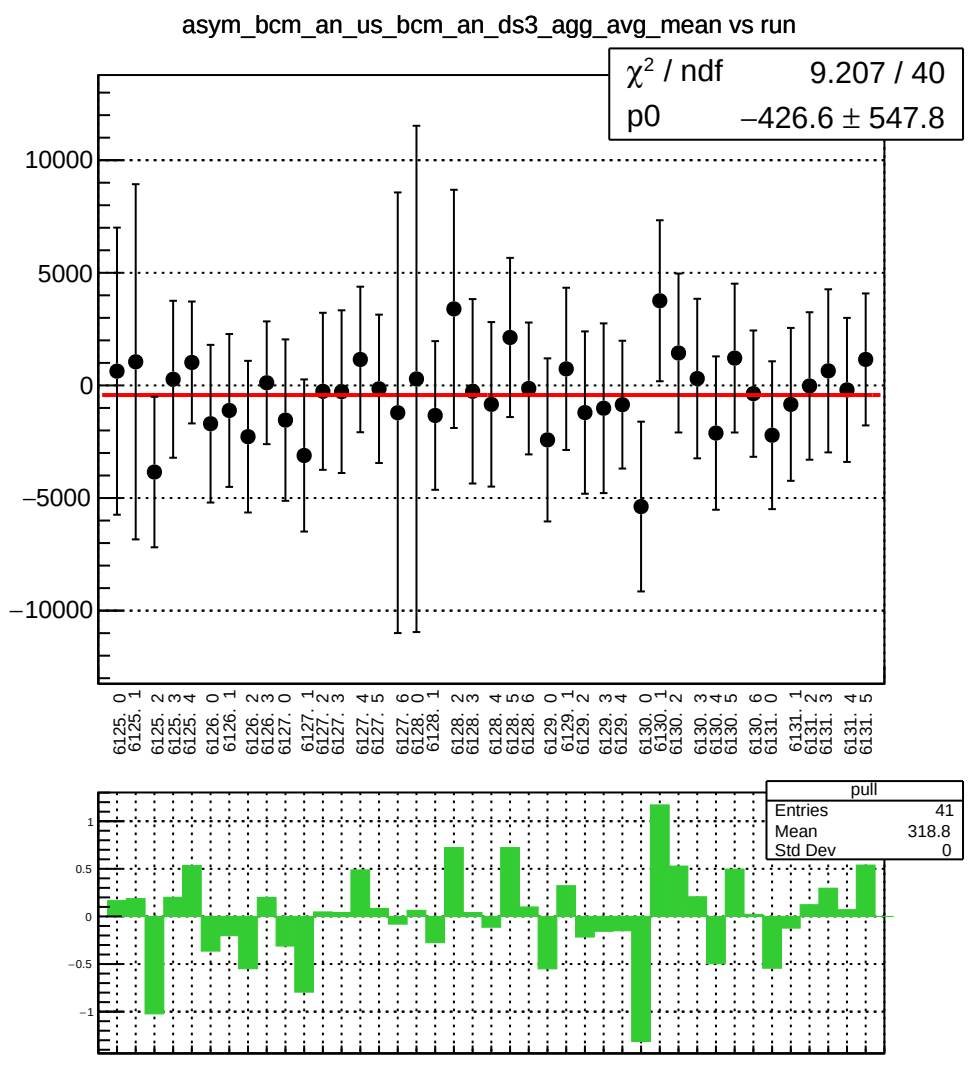

pull1D
Entries 41
Mean 0.003423
Std Dev 0.9718

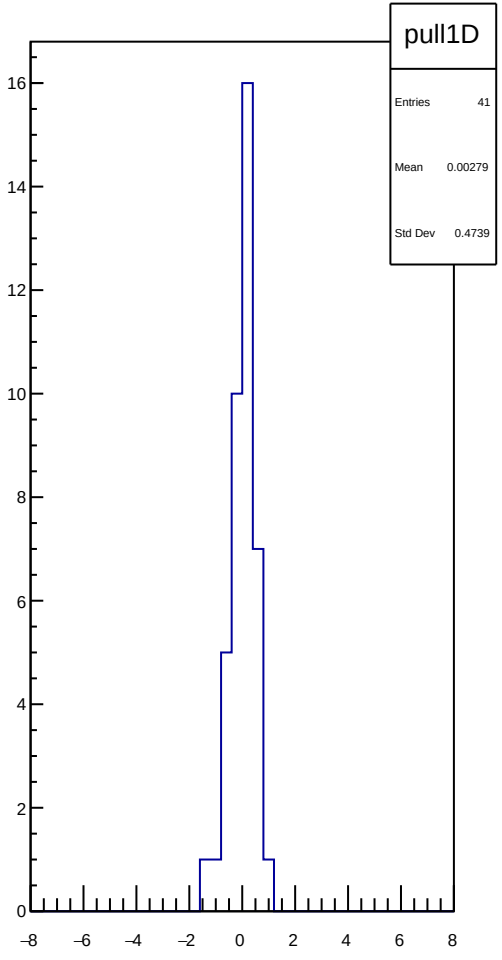

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 404.2 / 40
p0 21.28 ± 0.02373
22.5
22
21.5
21
20.5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

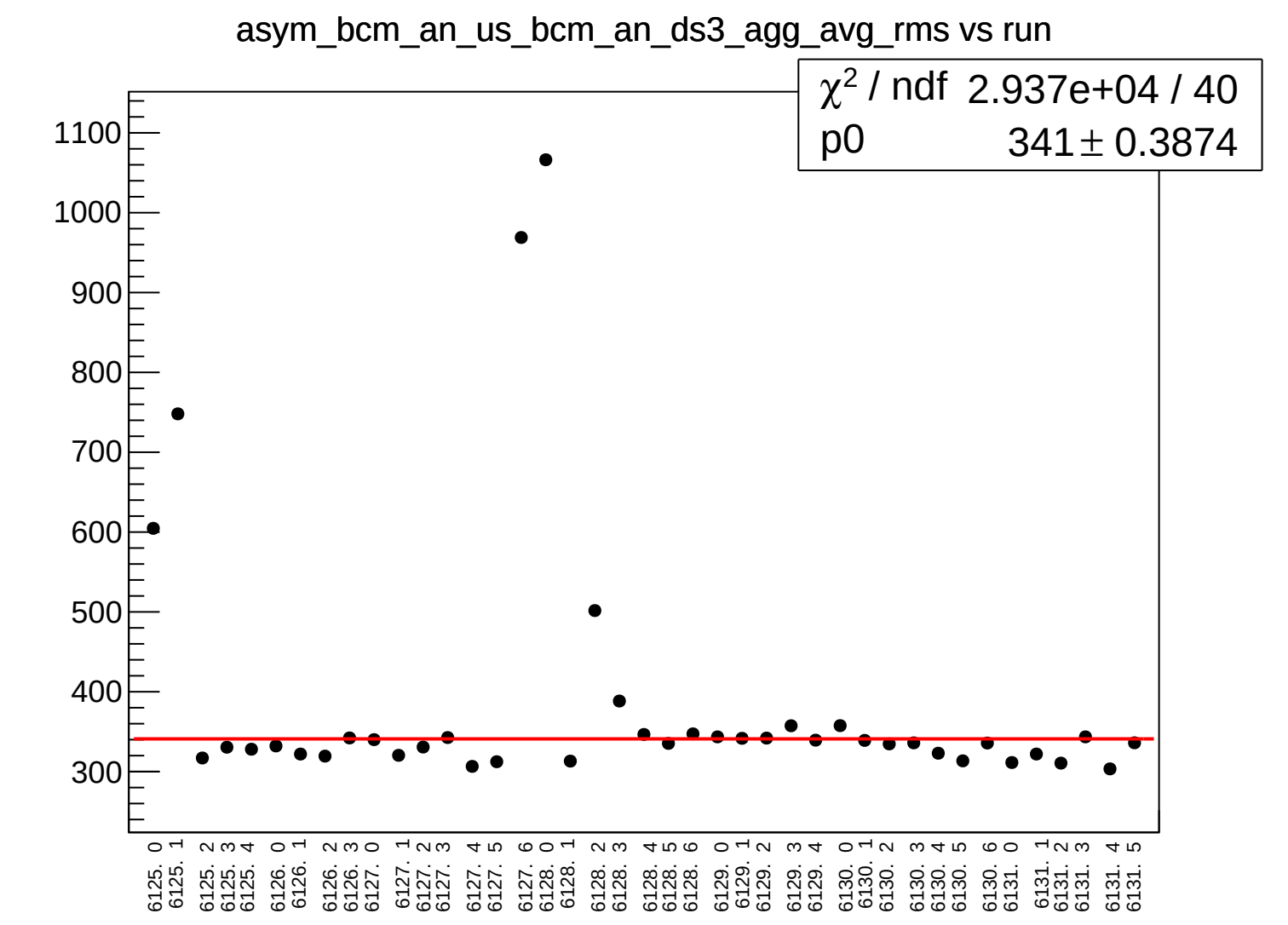

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 41.2 / 40
p0 −2.044 ± 20.82
400
200
0
−200
−400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 20.76
Std Dev 0
2
1
0
−1
−2

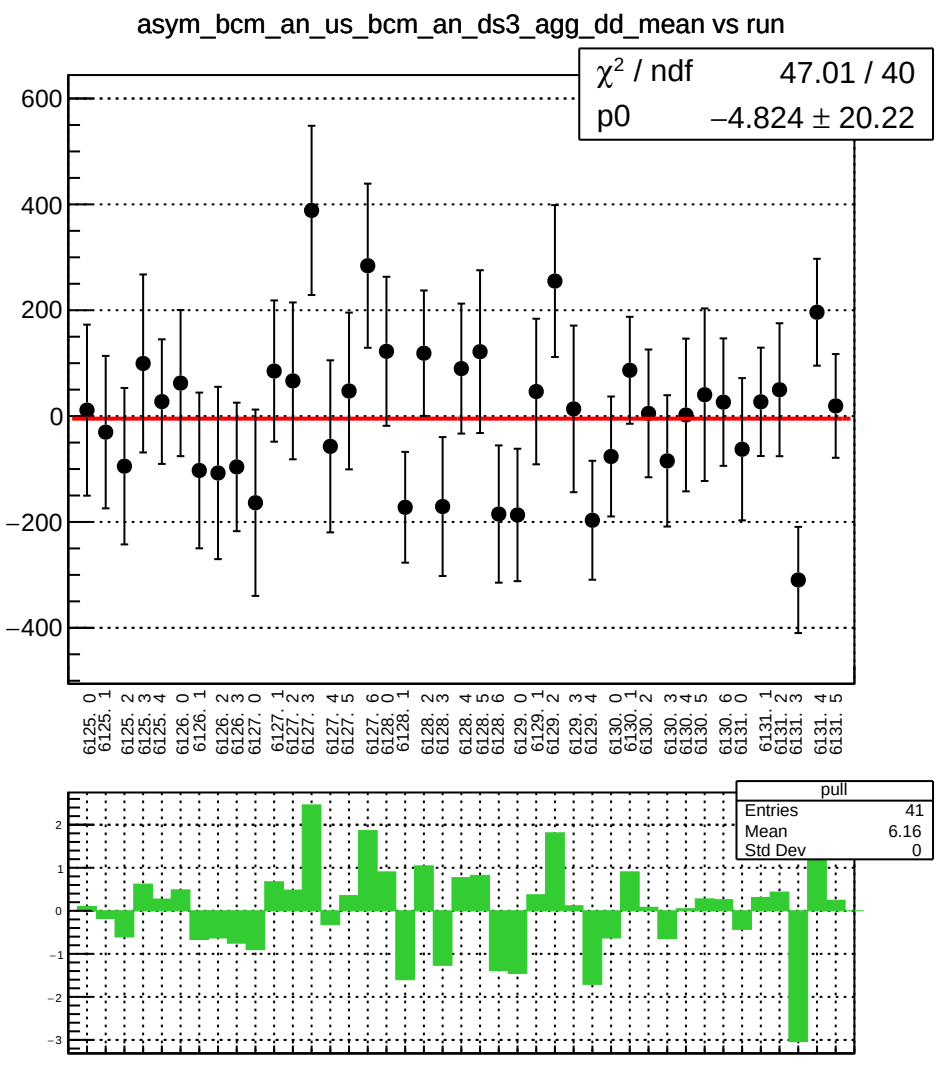

pull1D
Entries 41
Mean 0.02385
Std Dev 1.002
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

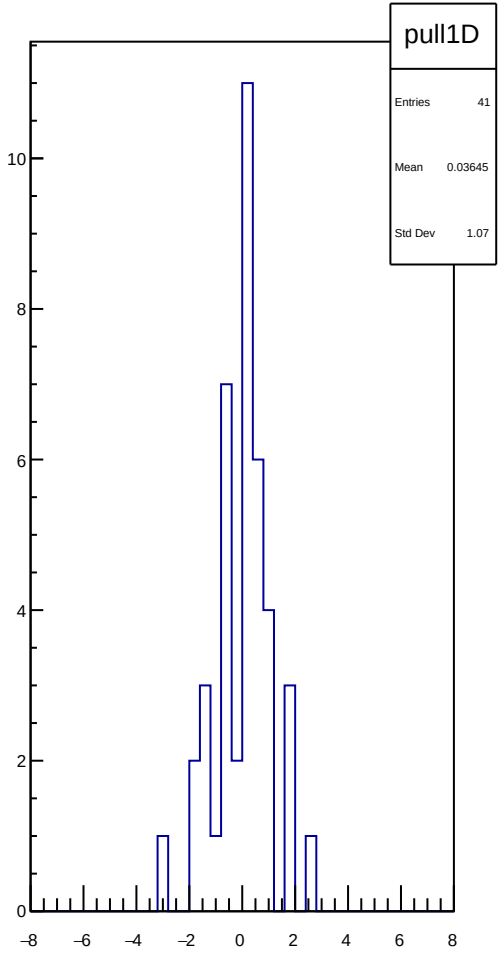

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.792e+04 / 40
p0 13.05 ± 0.01472
17
16
15
14
13
12
11
10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

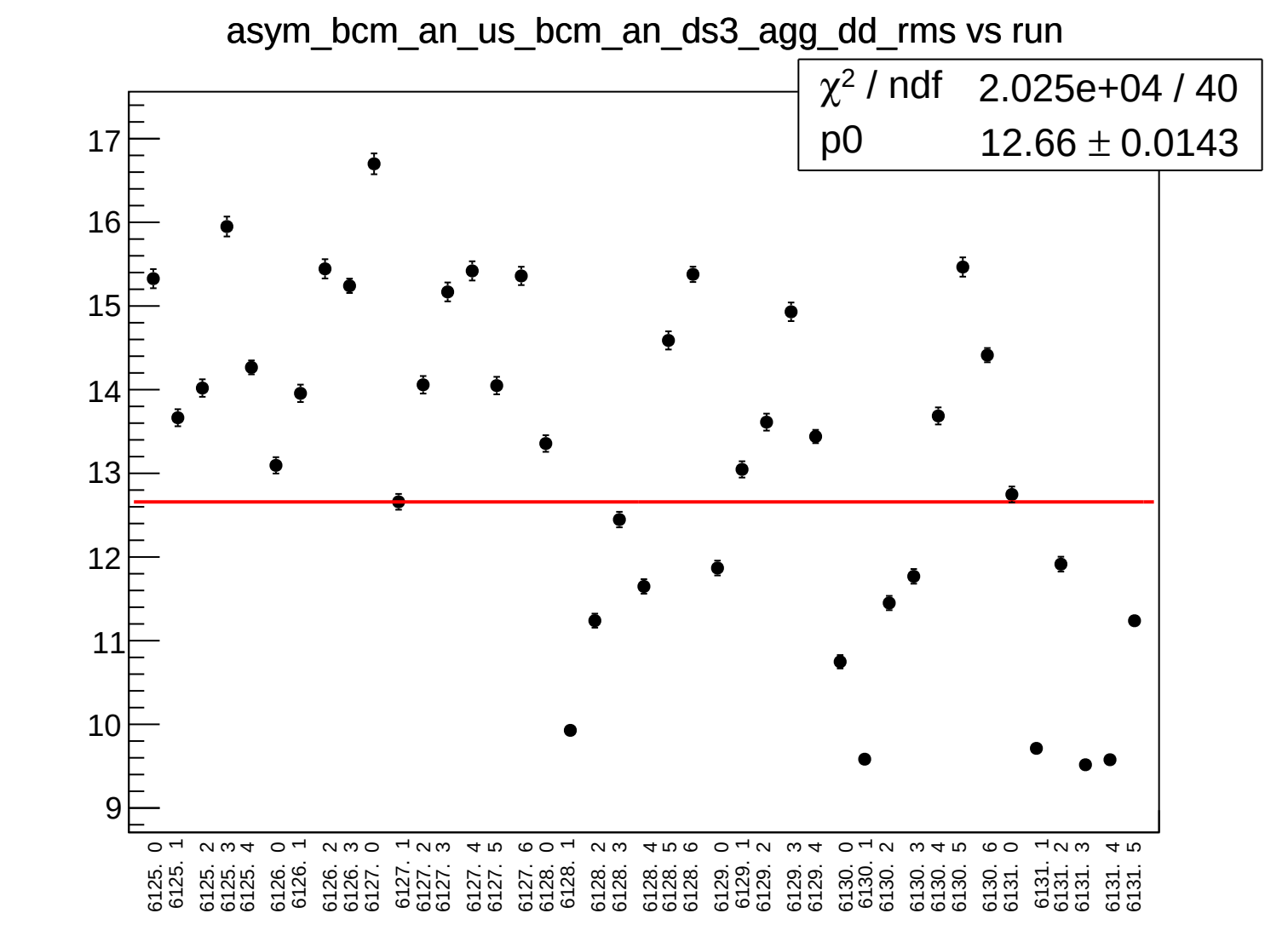

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 9.207 / 40
p0 −426.6 ± 547.8
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 318.8
Std Dev 0
1
0.5
0
−0.5
−1

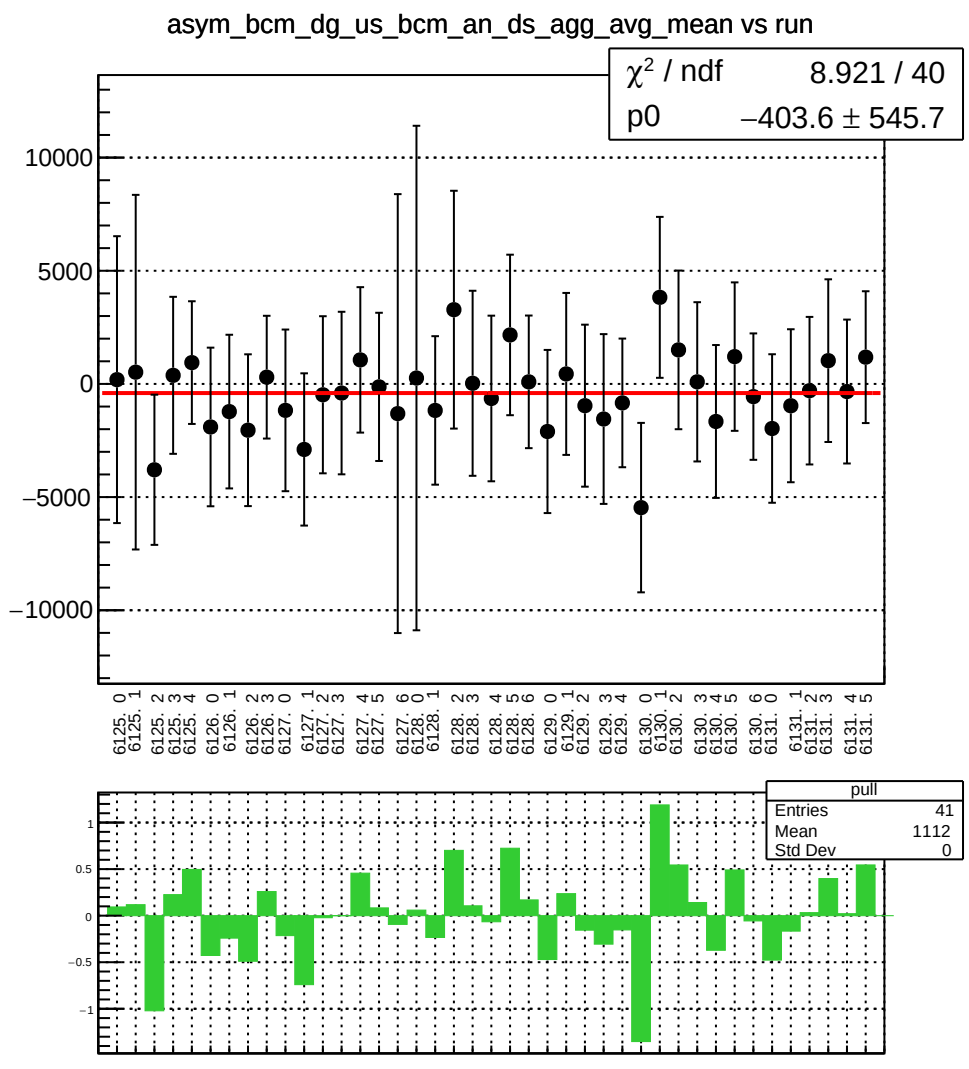

pull1D
Entries 41
Mean 0.00279
Std Dev 0.4739
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

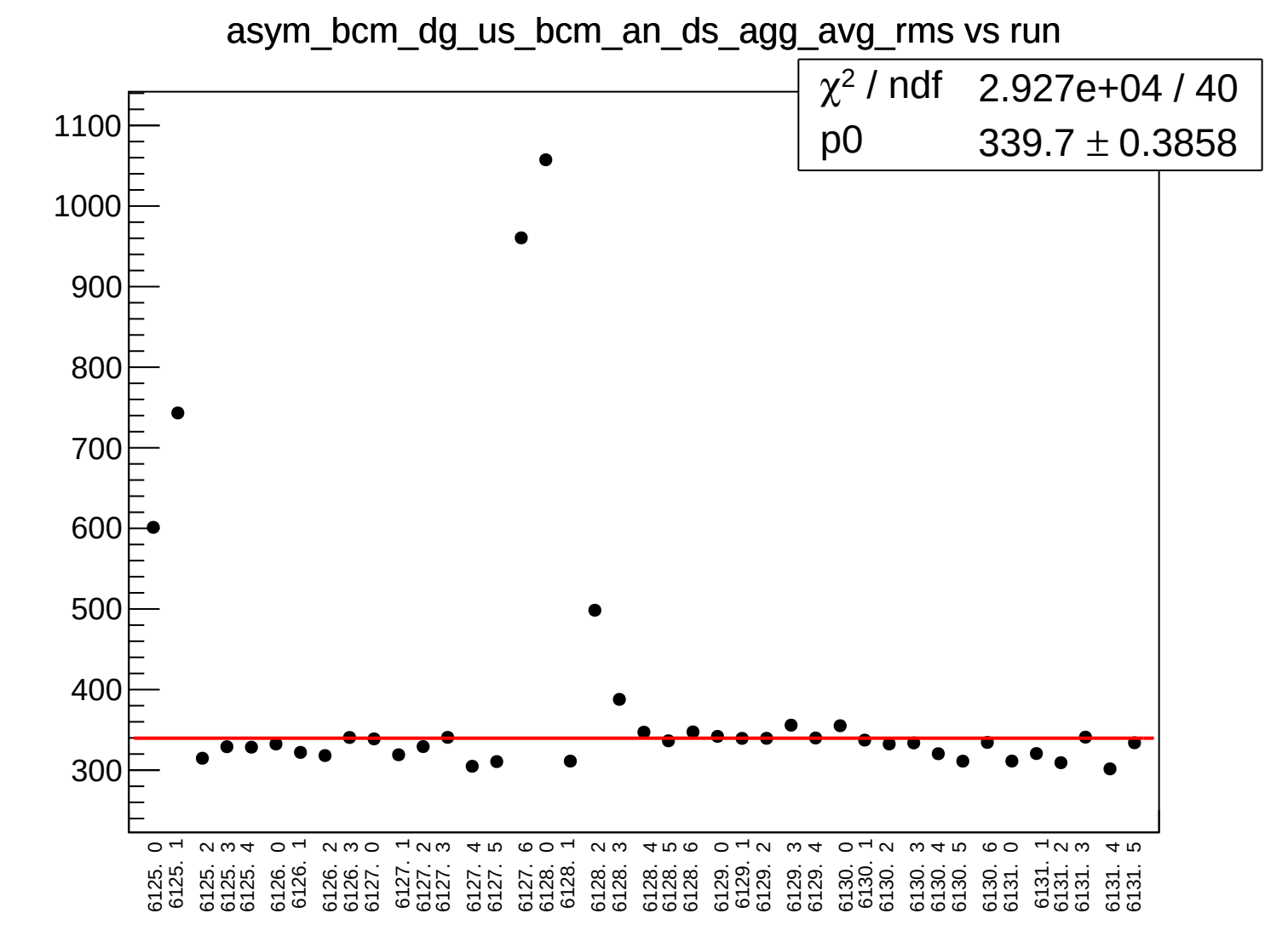

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2.937e+04 / 40
p0 341 ± 0.3874
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

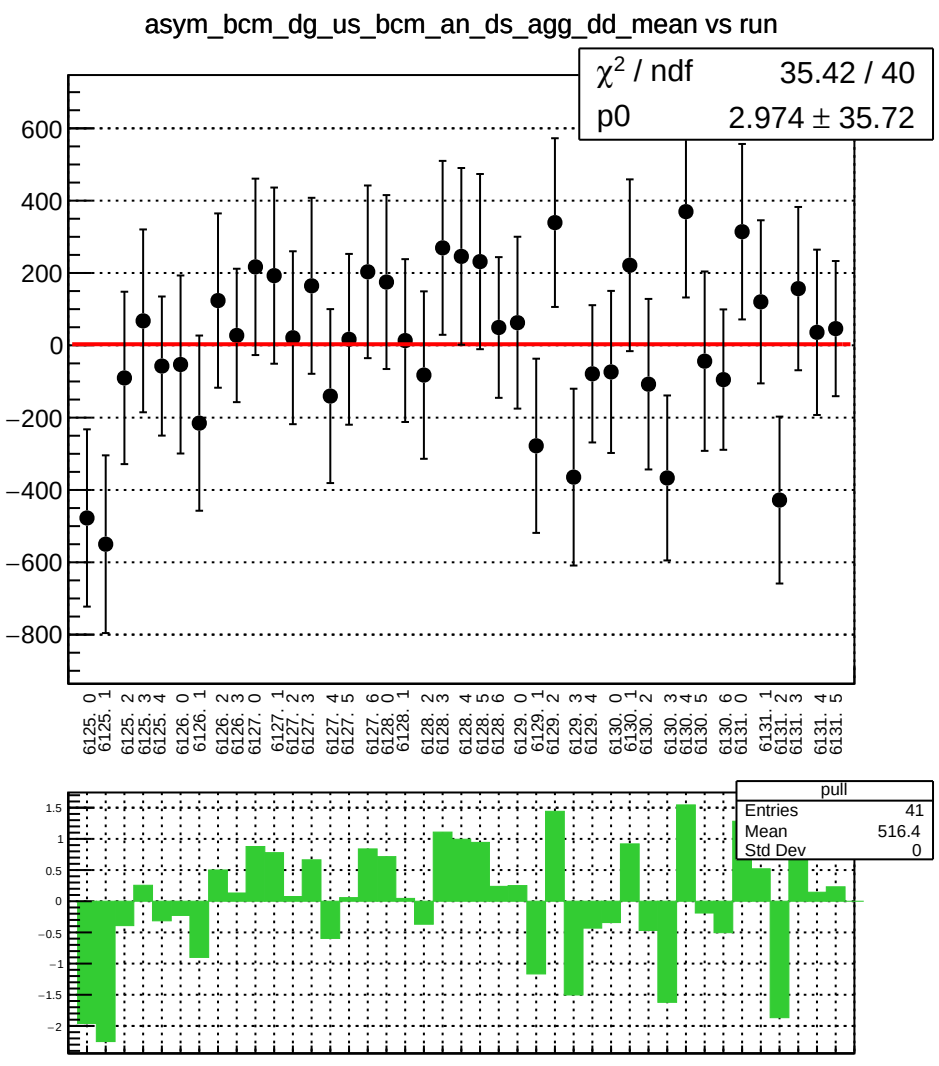

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 47.01 / 40
p0 −4.824 ± 20.22
600
400
200
0
−200
−400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 6.16
Std Dev 0
2
1
0
−1
−2
−3

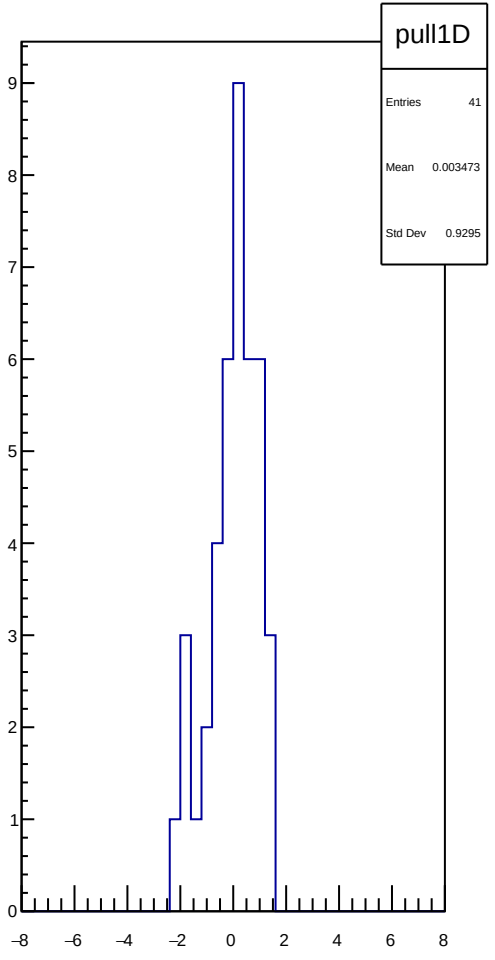

pull1D
Entries 41
Mean 0.03645
Std Dev 1.07
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

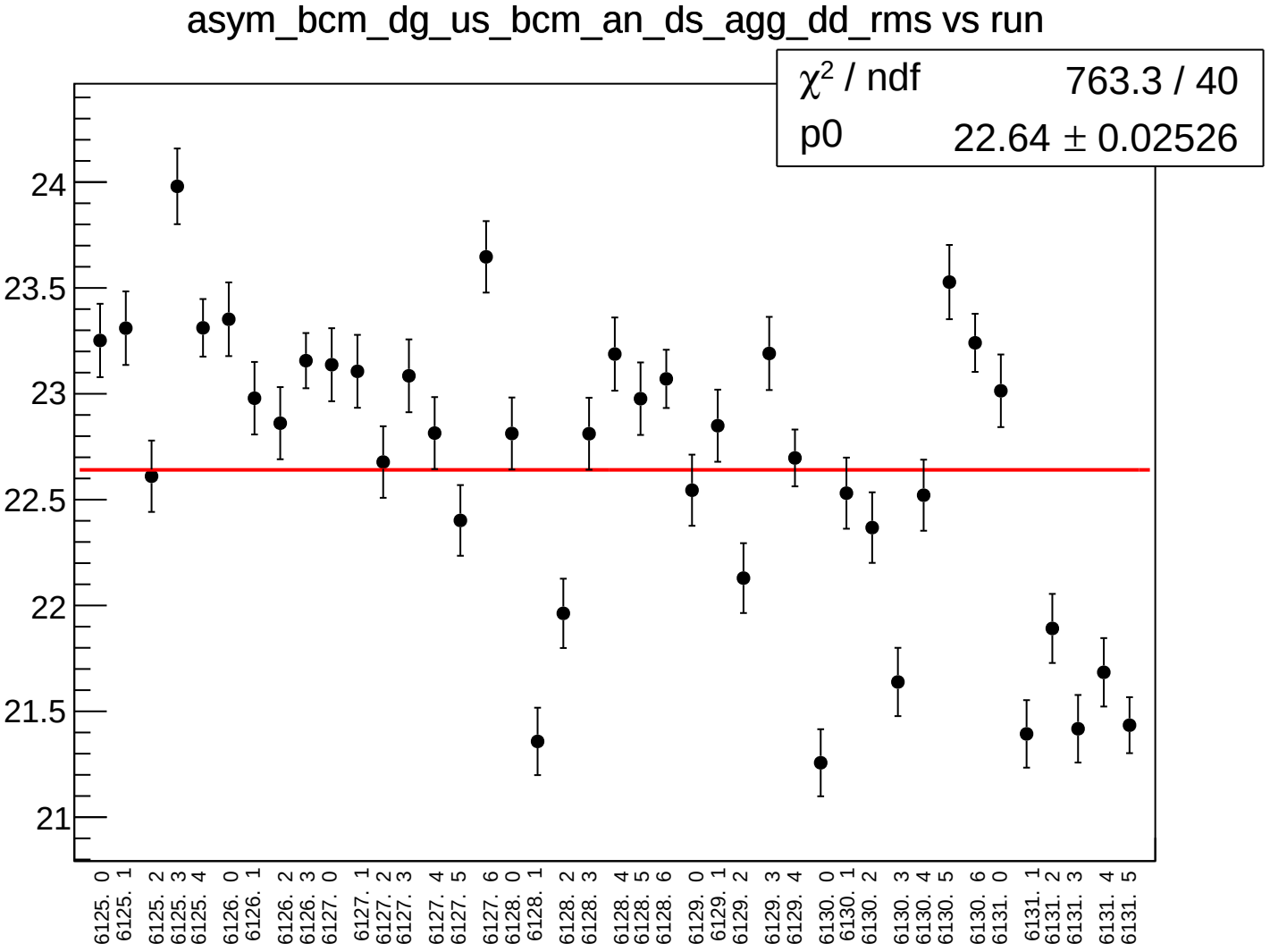

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2.025e+04 / 40
p0 12.66 ± 0.0143
17
16
15
14
13
12
11
10
9
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

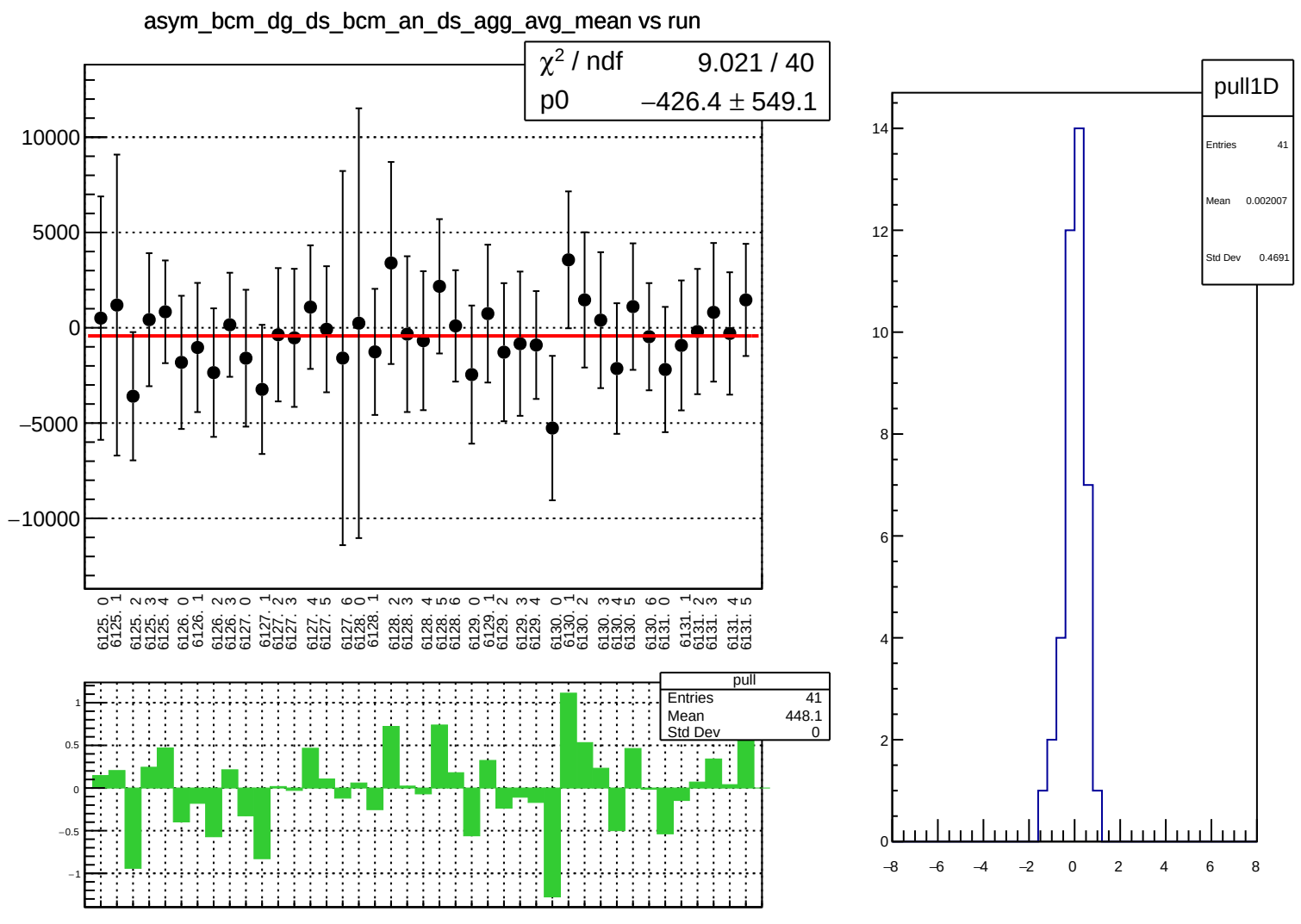

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.921 / 40
p0 −403.6 ± 545.7
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1112
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.0007902
Std Dev 0.4665
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

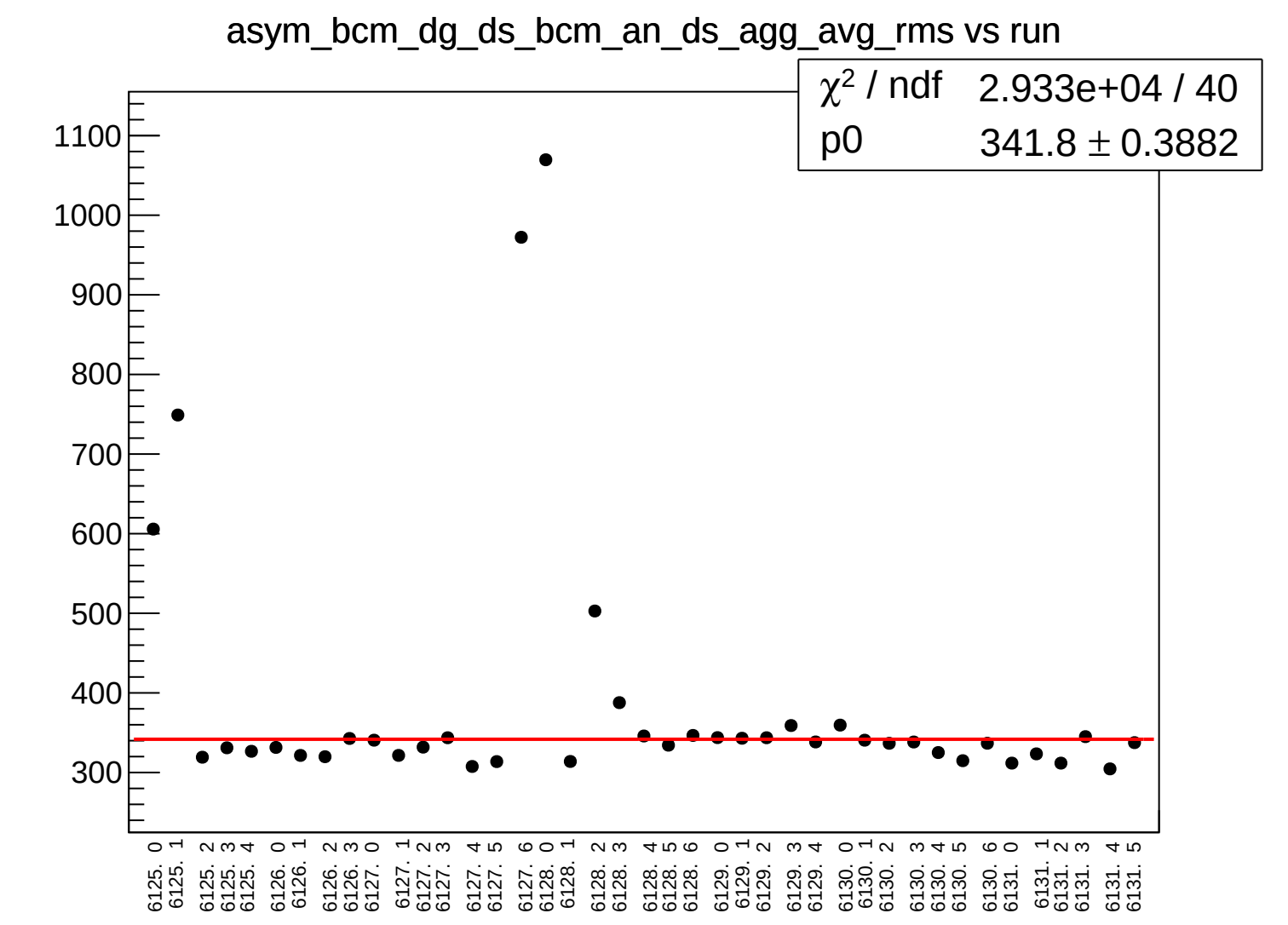

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.927e+04 / 40
p0 339.7 ± 0.3858
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

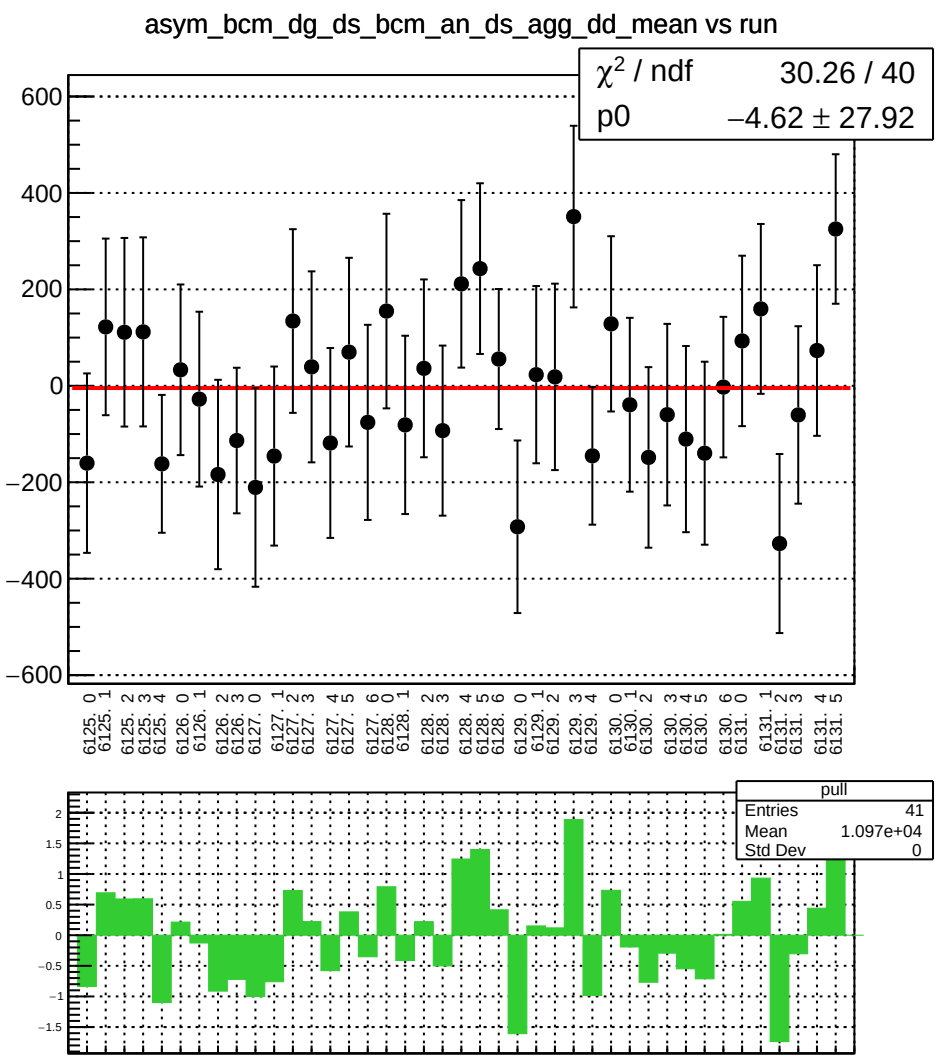

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 35.42 / 40
p0 2.974 ± 35.72
600
400
200
0
−200
−400
−600
−800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 516.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

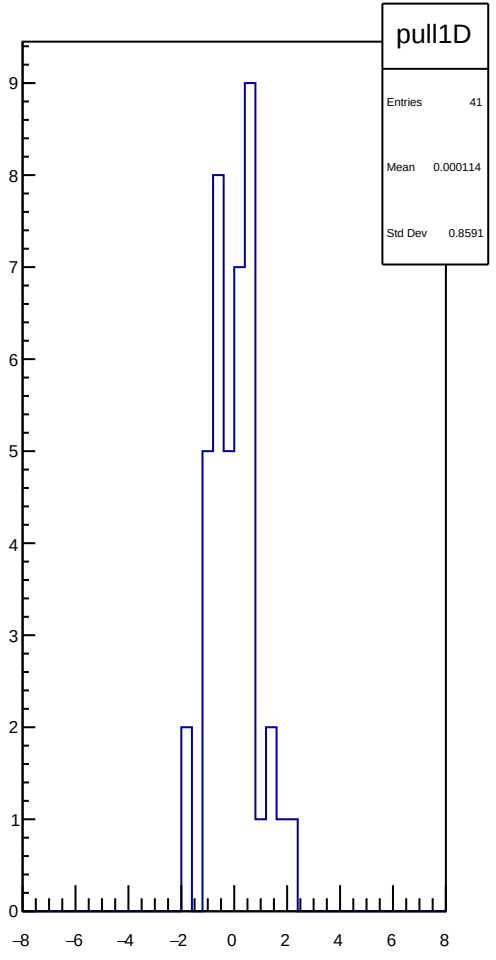

pull1D
Entries 41
Mean 0.003473
Std Dev 0.9295
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

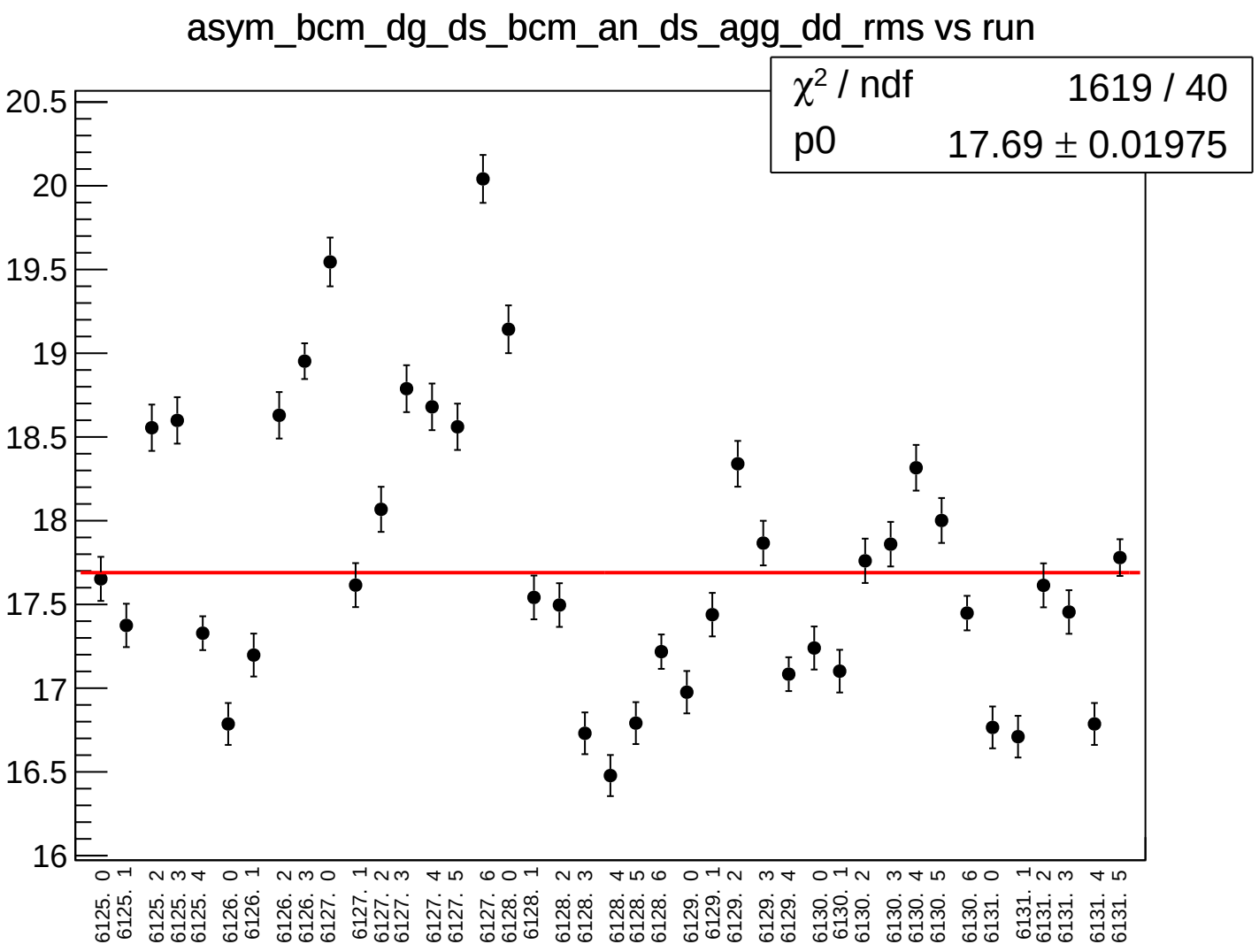

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 763.3 / 40
p0 22.64 ± 0.02526
24
23.5
23
22.5
22
21.5
21
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

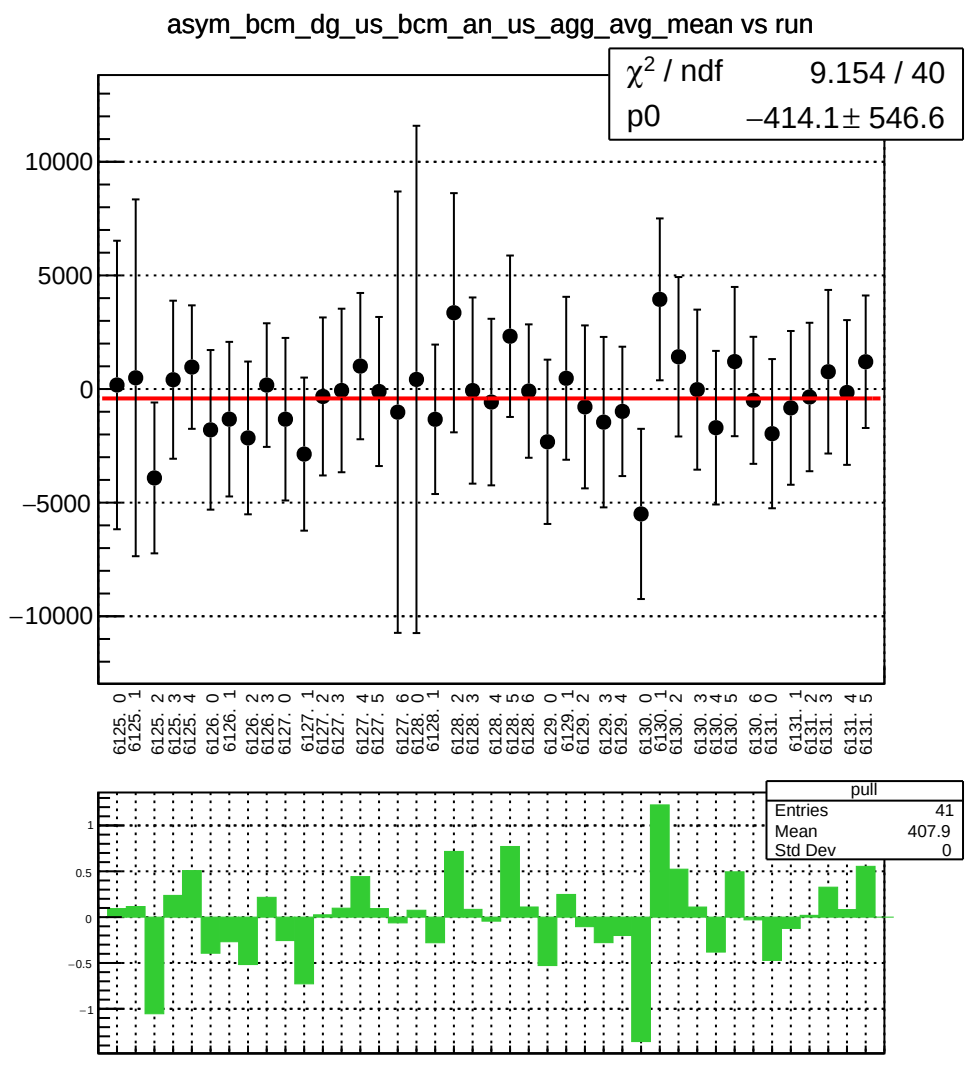

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 9.021 / 40
p0 −426.4 ± 549.1
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 448.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.002007
Std Dev 0.4691
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

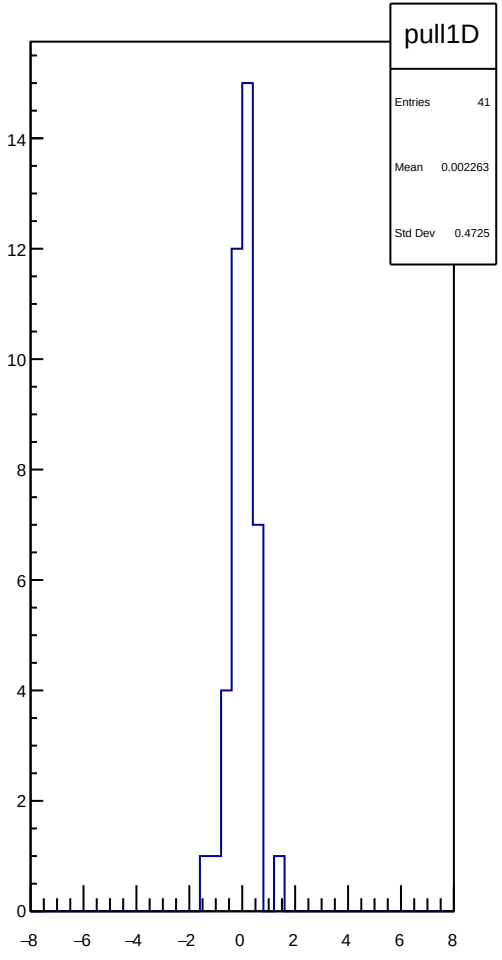

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.933e+04 / 40
p0 341.8 ± 0.3882
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

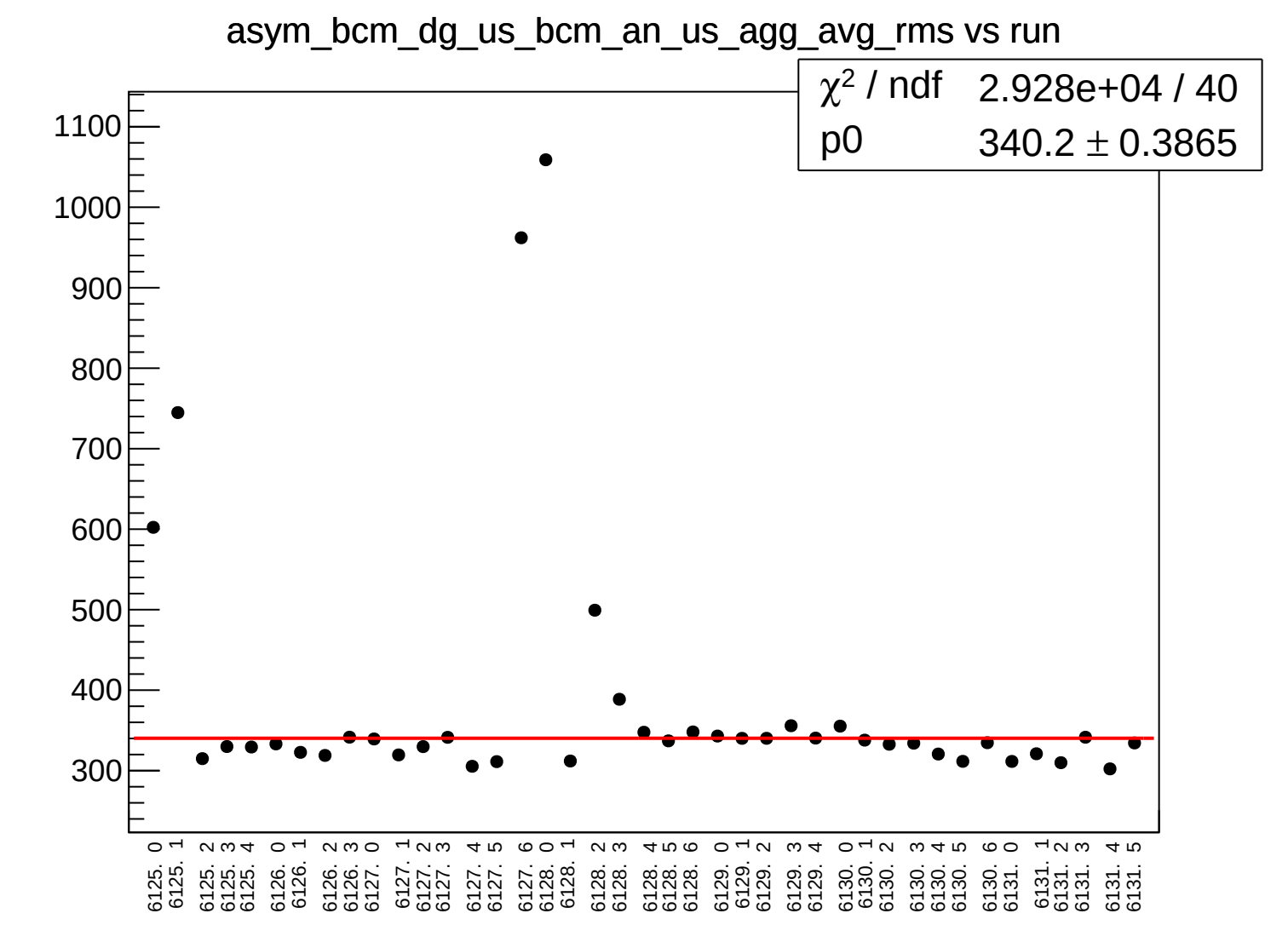

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 30.26 / 40
p0 −4.62 ± 27.92
600
400
200
0
−200
−400
−600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1.097e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

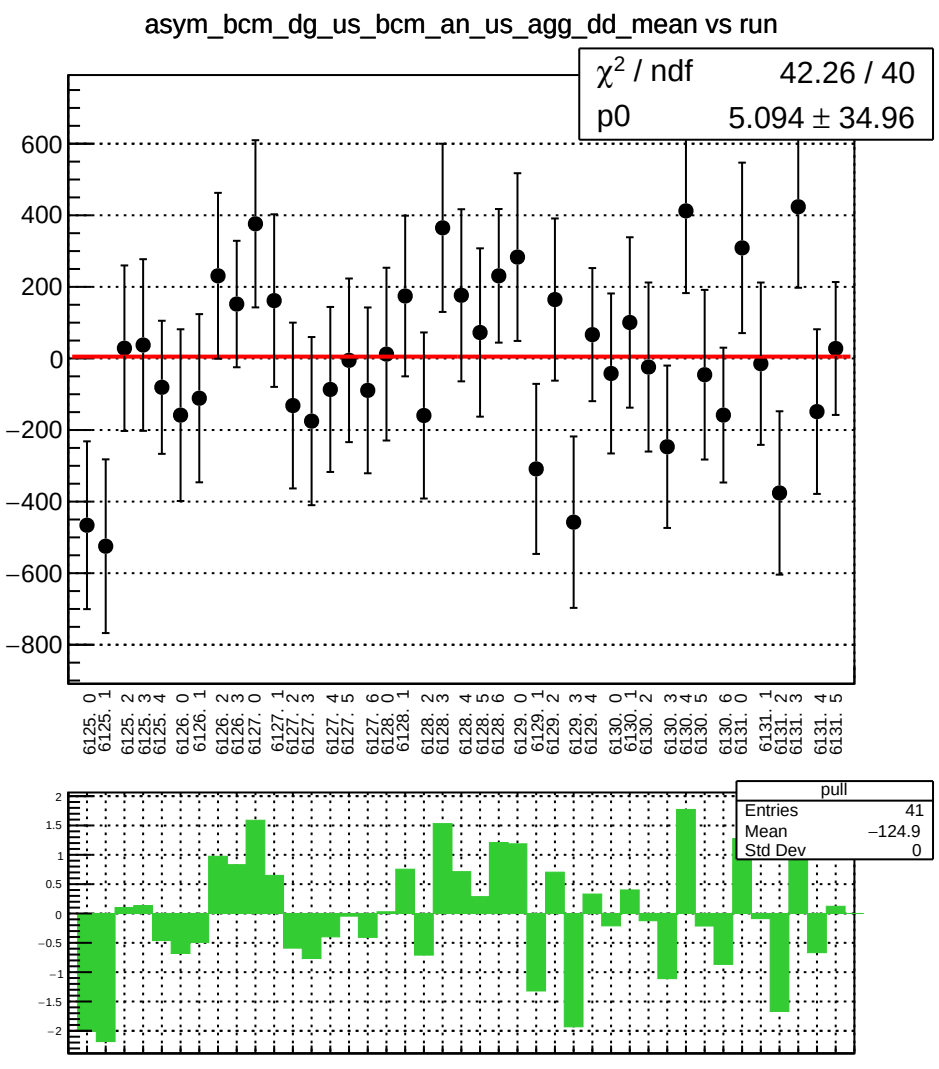

pull1D
Entries 41
Mean 0.000114
Std Dev 0.8591
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

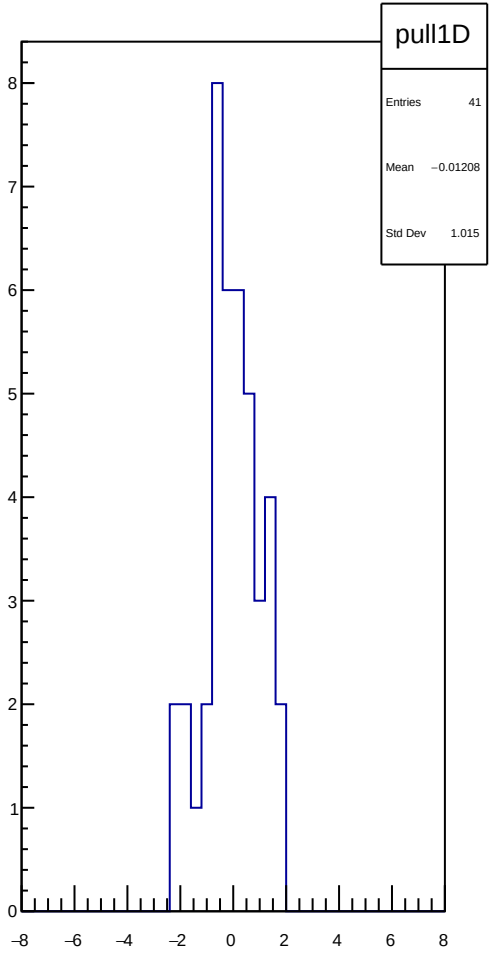

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1619 / 40
p0 17.69 ± 0.01975
20.5
20
19.5
19
18.5
18
17.5
17
16.5
16
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

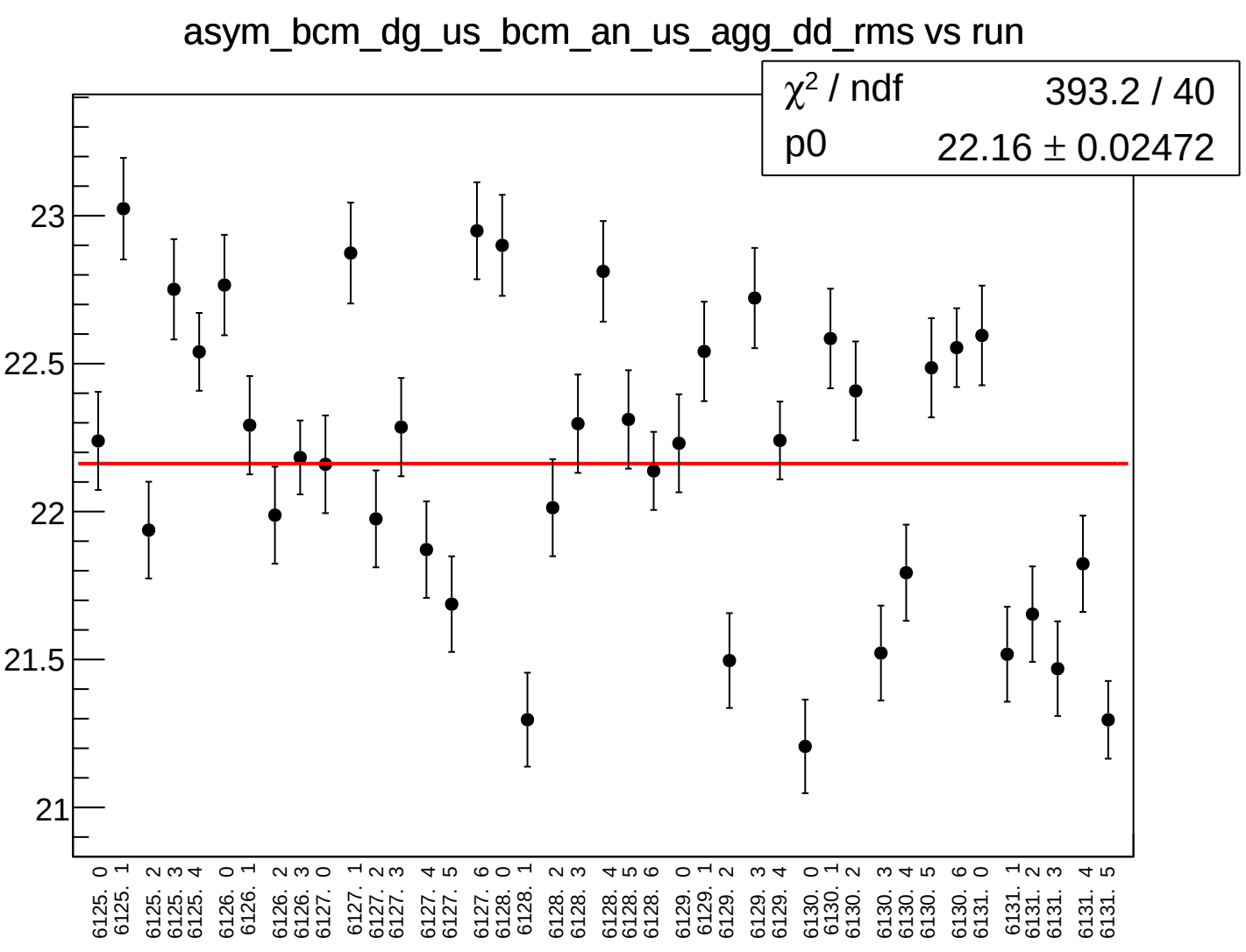

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 9.154 / 40
p0 −414.1 ± 546.6
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 407.9
Std Dev 0
1
0.5
0
−0.5
−1

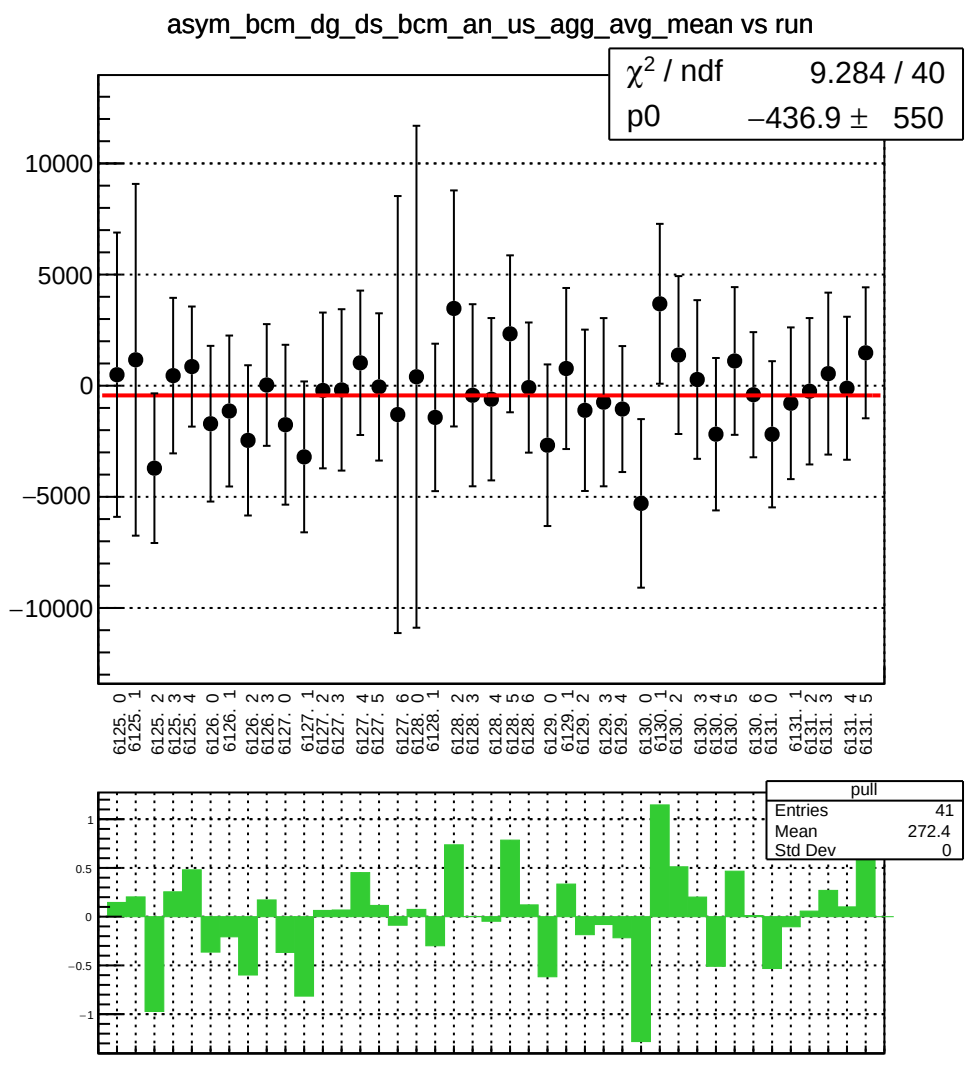

pull1D
Entries 41
Mean 0.002263
Std Dev 0.4725
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

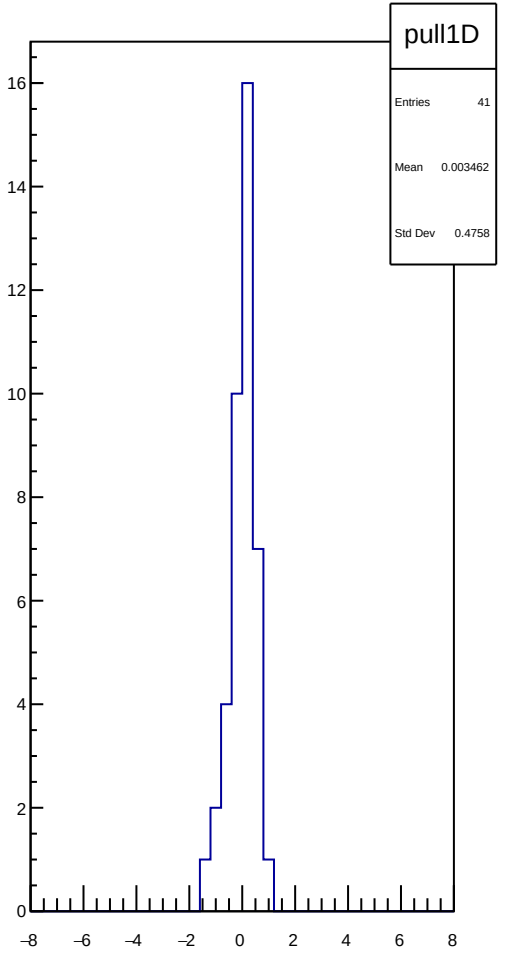

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.928e+04 / 40
p0 340.2 ± 0.3865
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

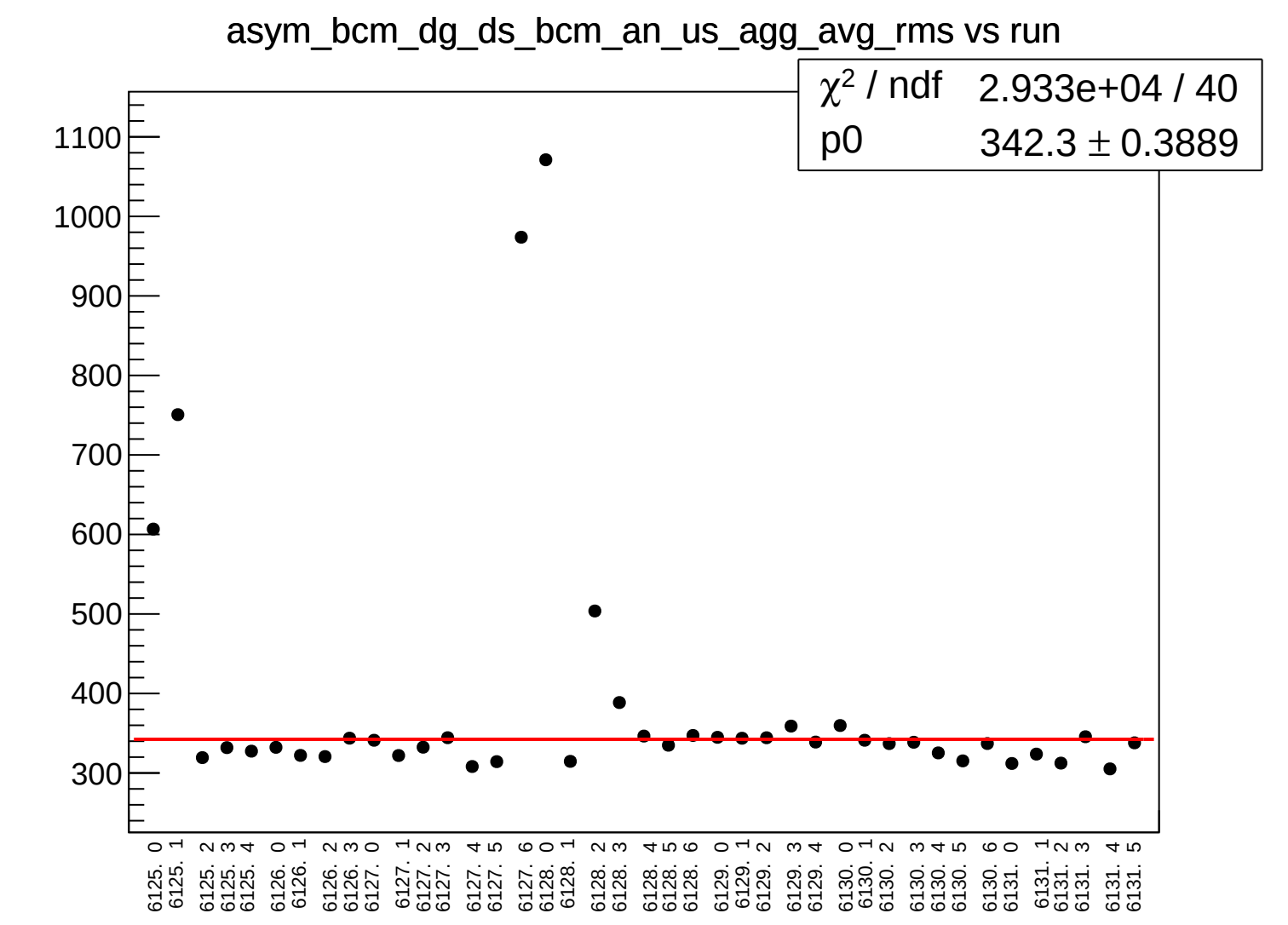

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 42.26 / 40
p0 5.094 ± 34.96
pull
Entries 41
Mean −124.9
Std Dev 0

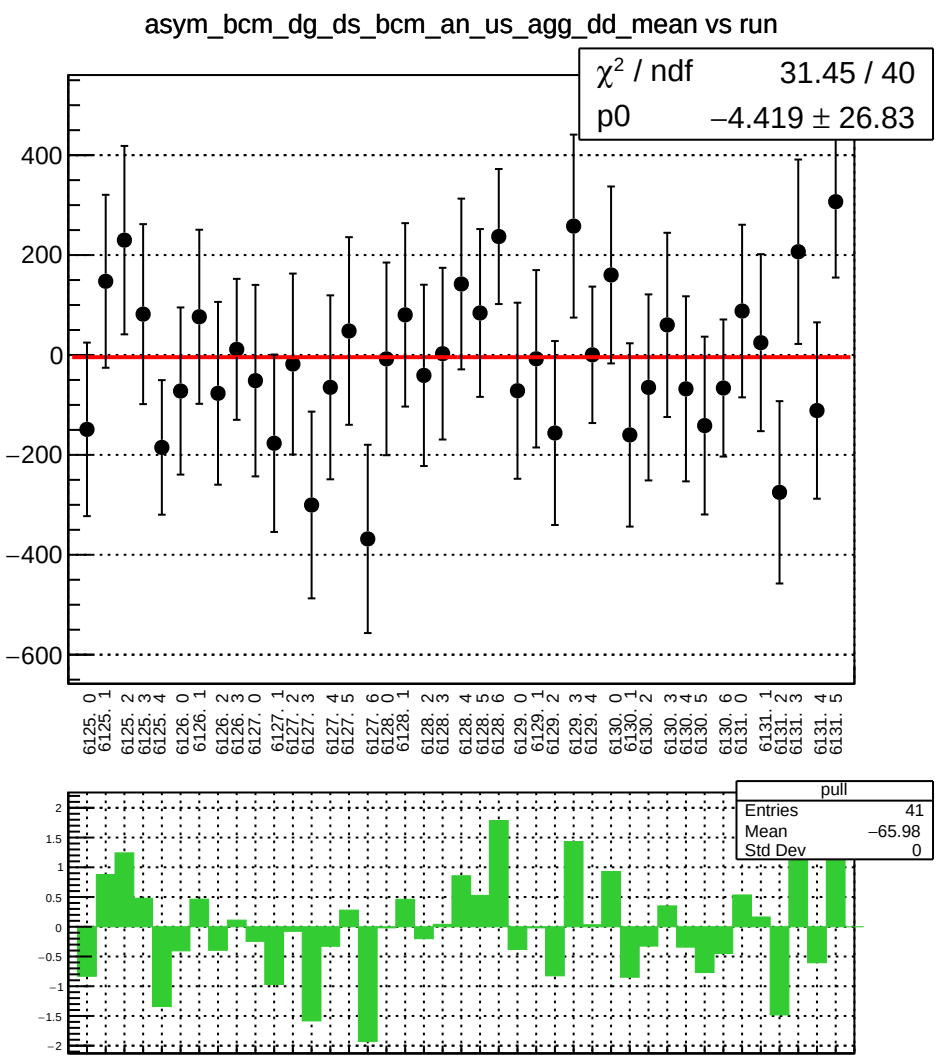

pull1D
Entries 41
Mean −0.01208
Std Dev 1.015

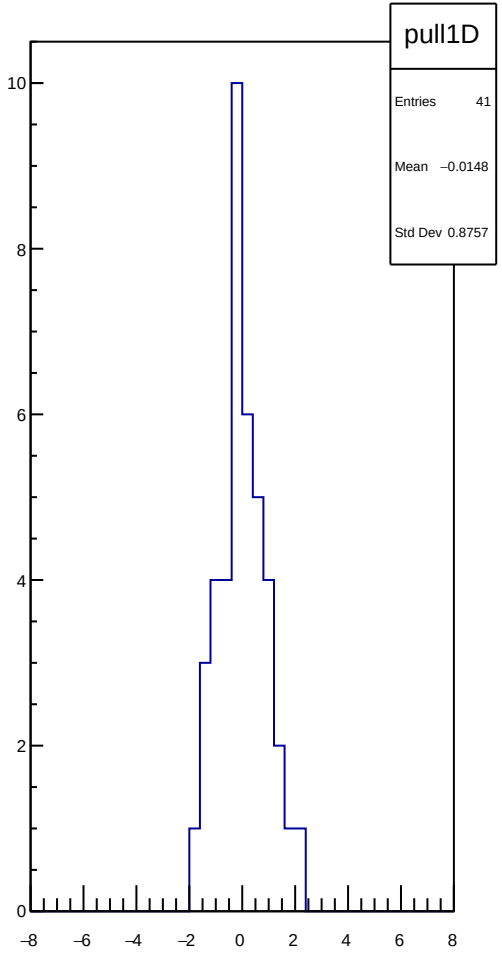

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 393.2 / 40
p0 22.16 ± 0.02472
23
22.5
22
21.5
21
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

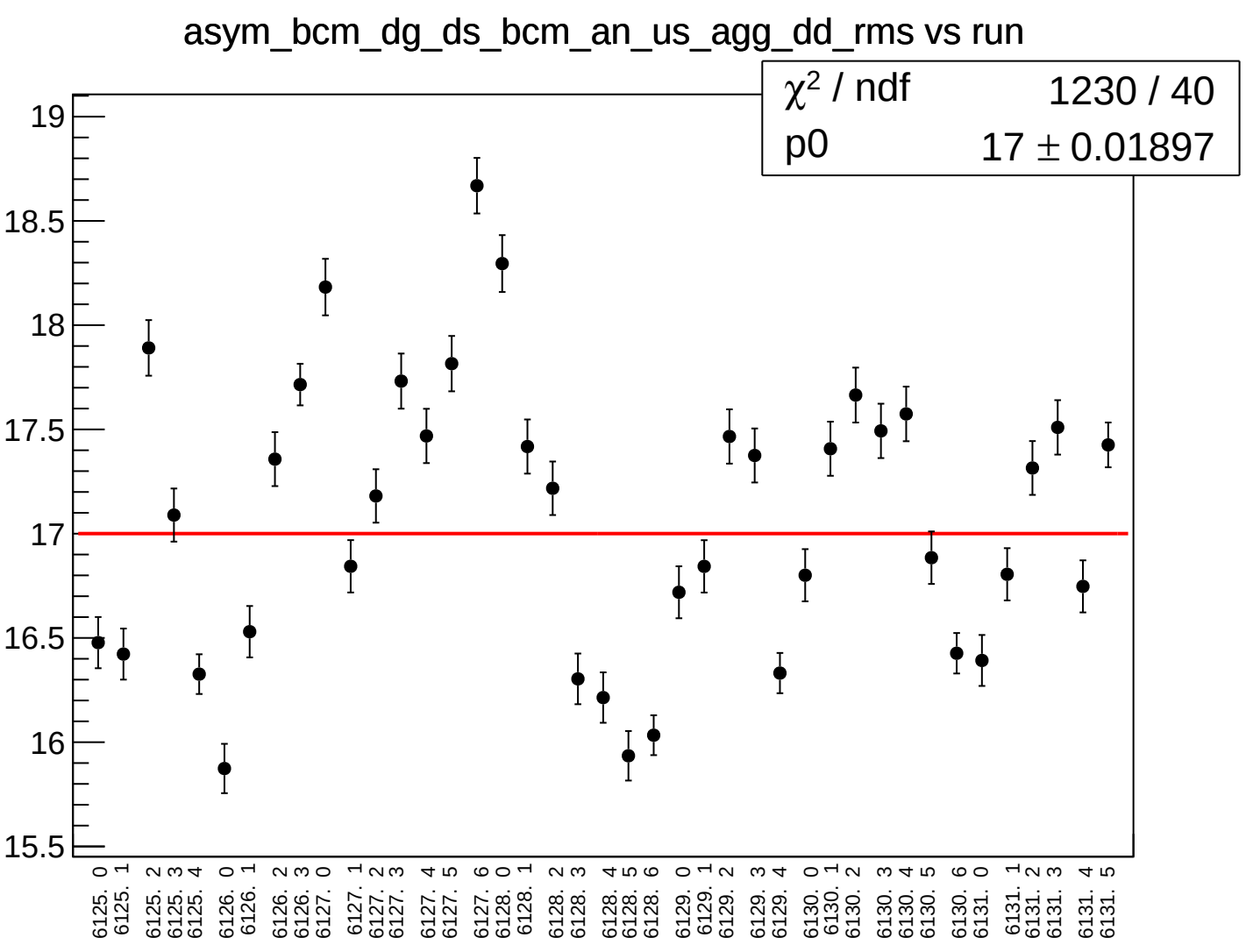

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 9.284 / 40
p0 −436.9 ± 550
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 272.4
Std Dev 0
1
0.5
0
−0.5
−1

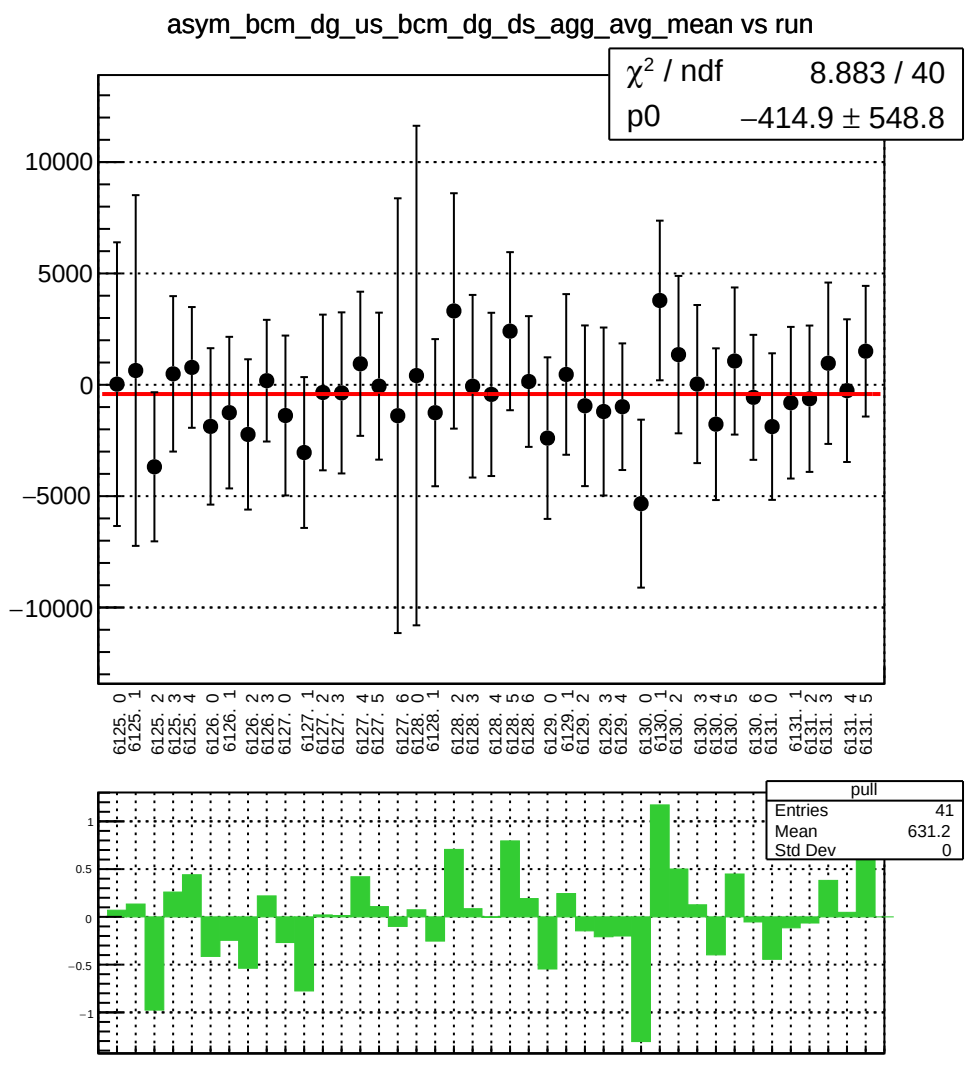

pull1D
Entries 41
Mean 0.003462
Std Dev 0.4758
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

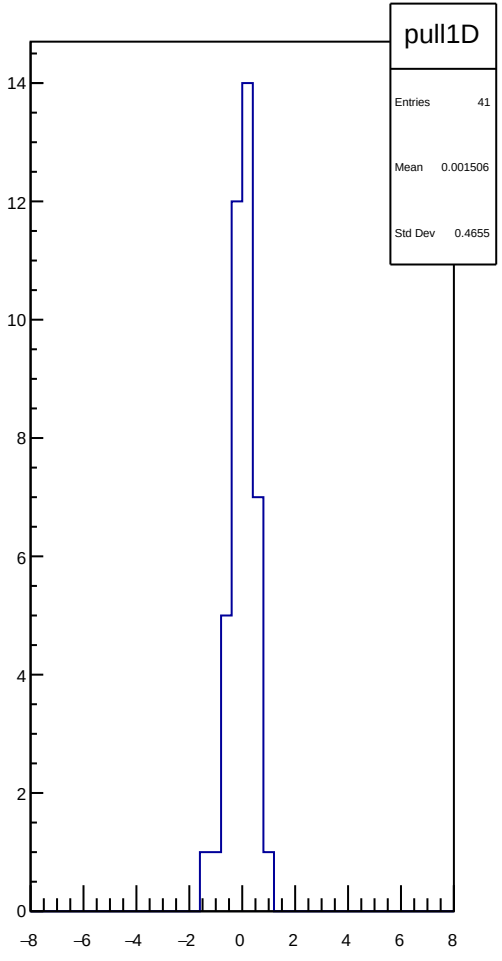

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.933e+04 / 40
p0 342.3 ± 0.3889
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

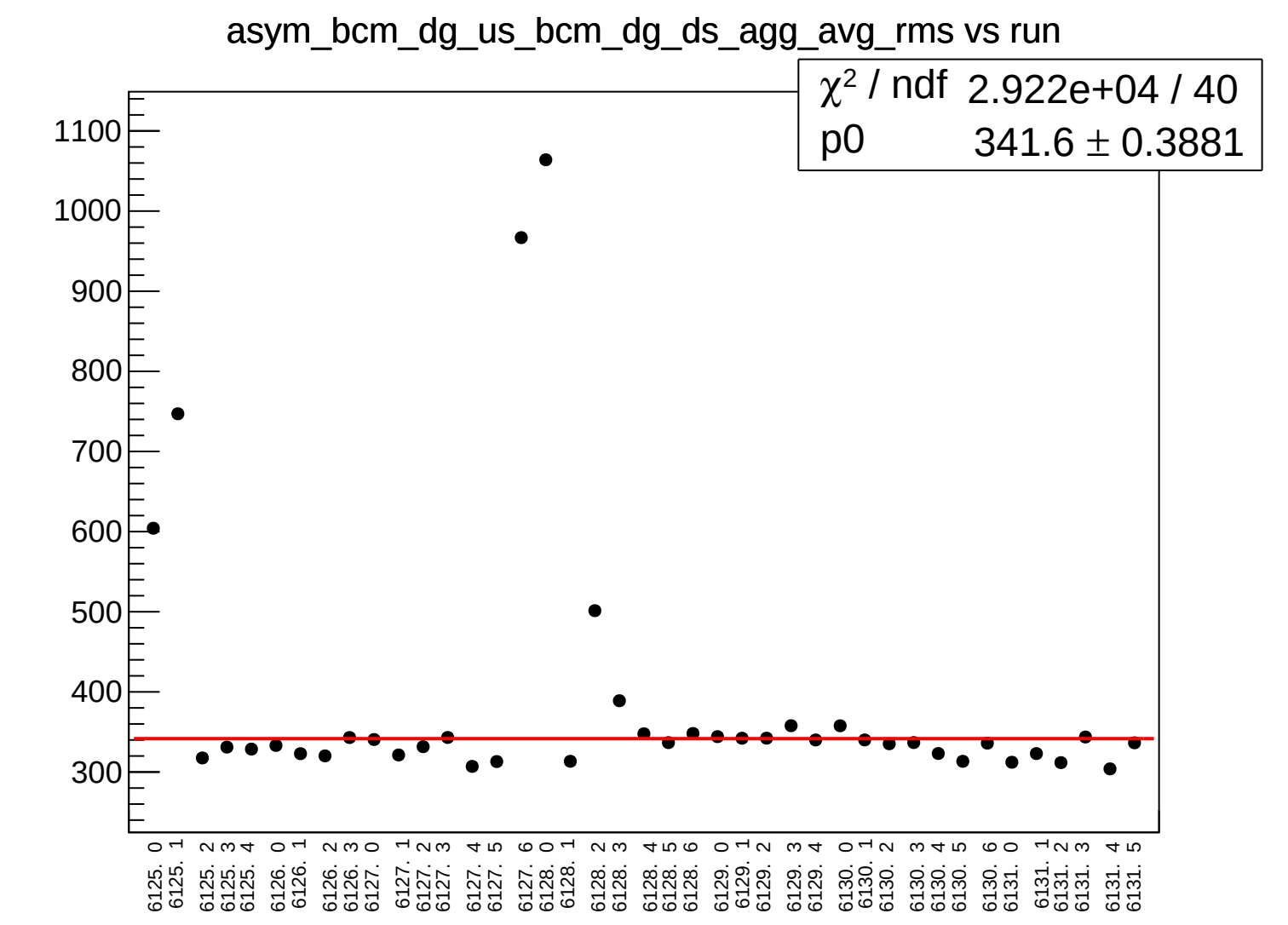

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 31.45 / 40
p0 −4.419 ± 26.83
400
200
0
−200
−400
−600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −65.98
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

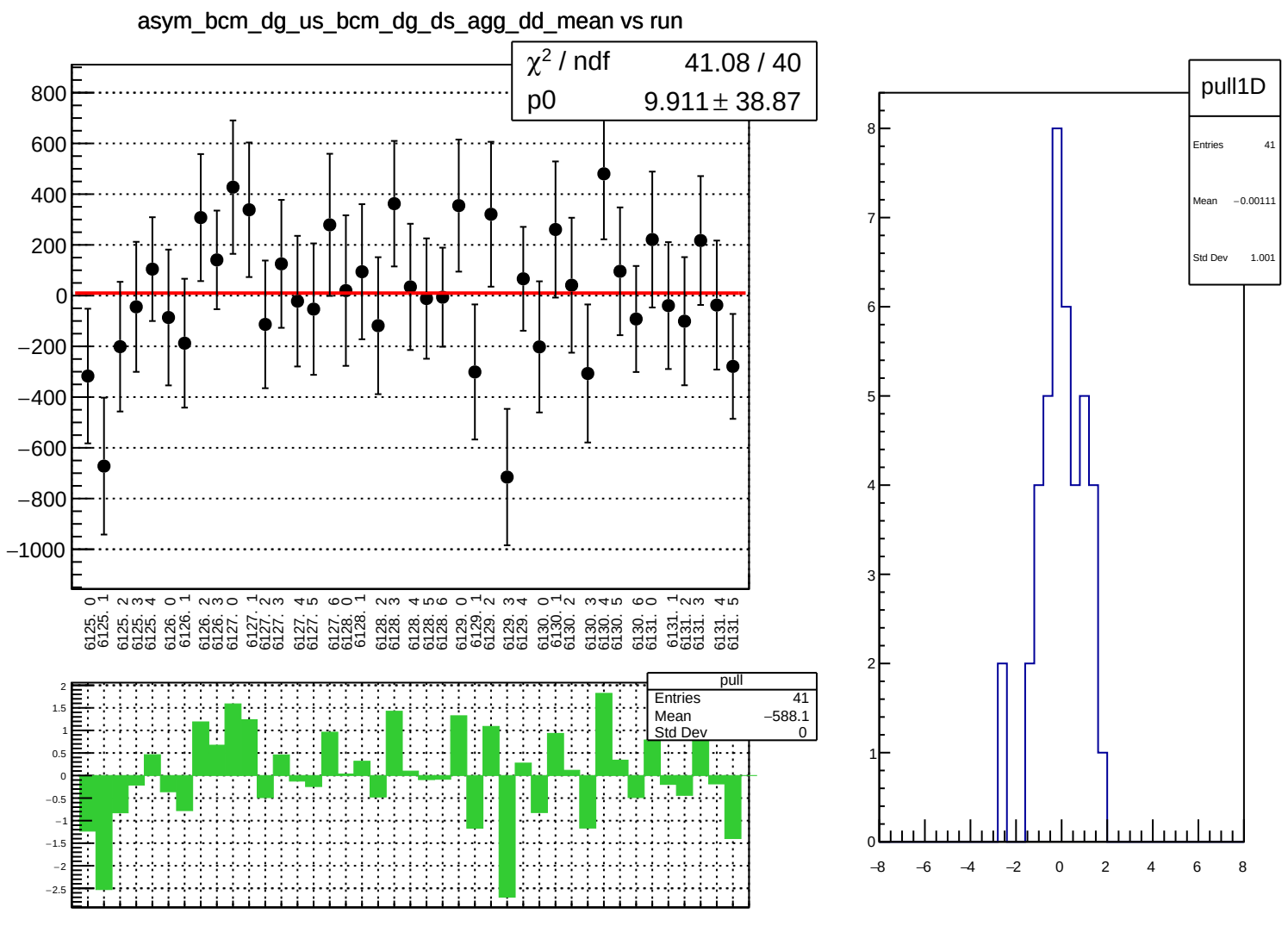

pull1D
Entries 41
Mean −0.0148
Std Dev 0.8757
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

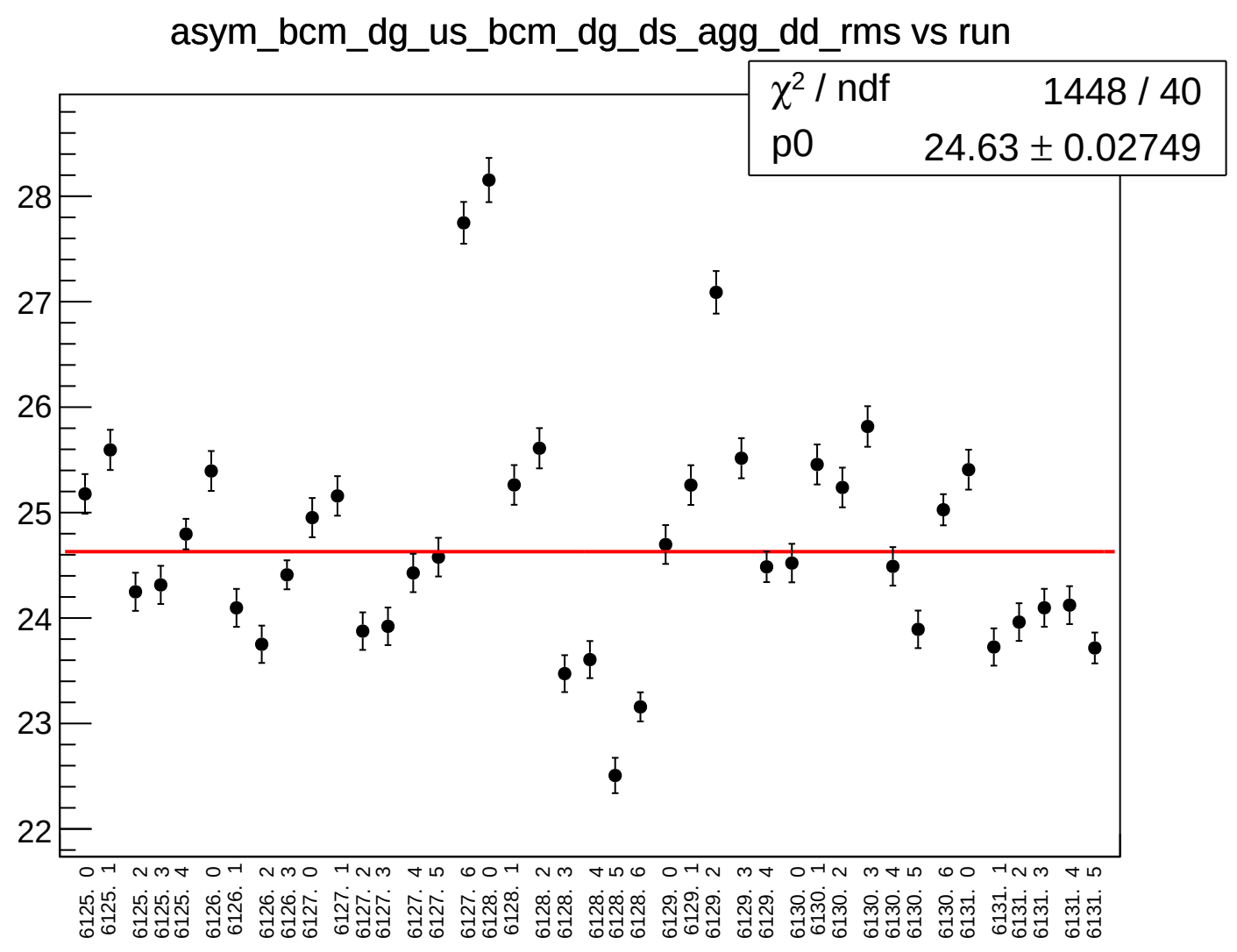

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1230 / 40
p0 17 ± 0.01897
19
18.5
18
17.5
17
16.5
16
15.5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

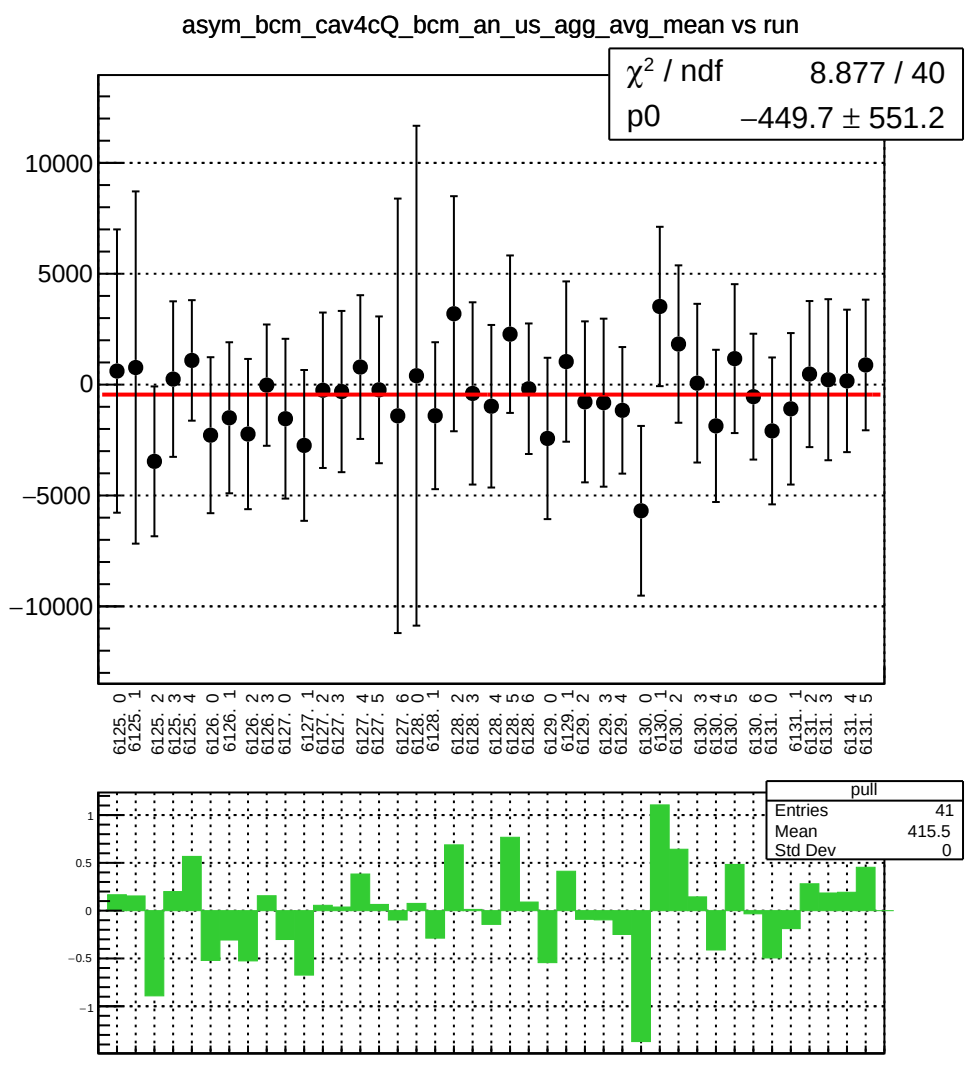

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 8.883 / 40
p0 −414.9 ± 548.8
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 631.2
Std Dev 0
1
0.5
0
−0.5
−1

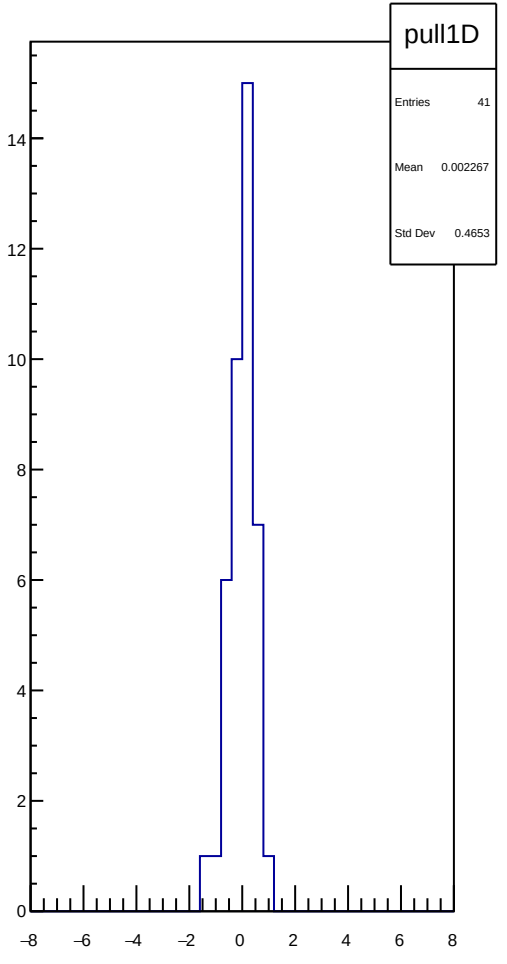

pull1D
Entries 41
Mean 0.001506
Std Dev 0.4655
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

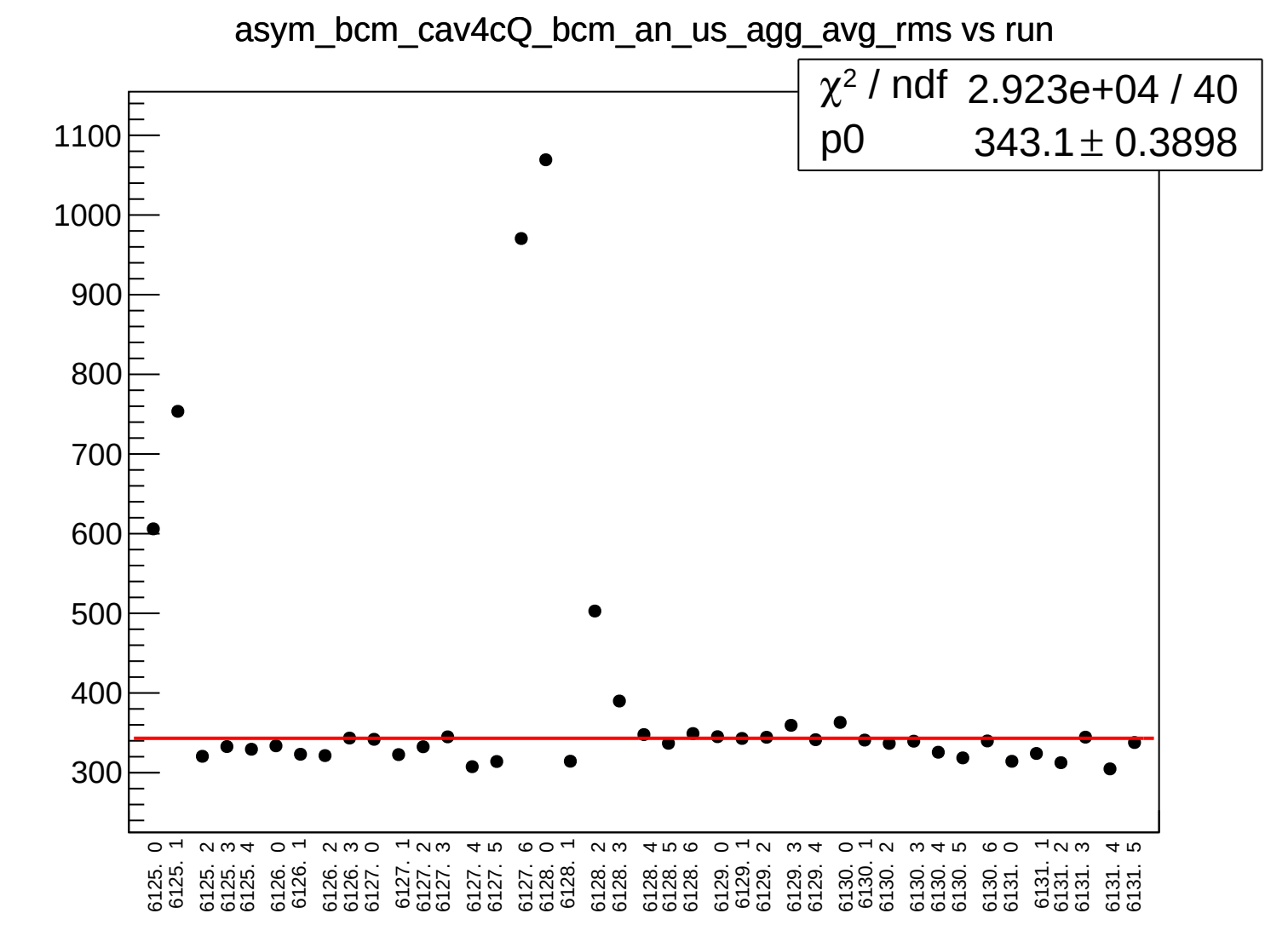

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.922e+04 / 40
p0 341.6 ± 0.3881
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

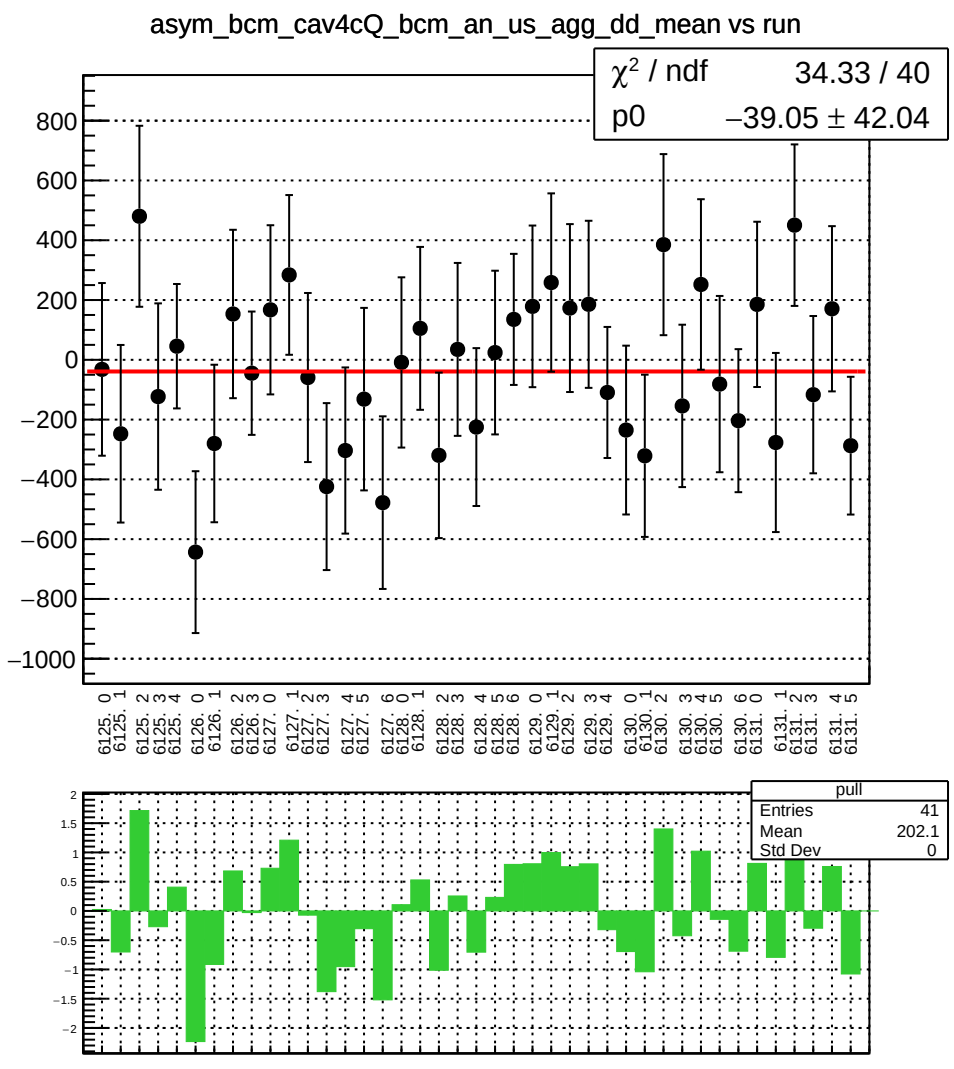

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 41.08 / 40
p0 9.911 ± 38.87
800
600
400
200
0
−200
−400
−600
−800
−1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −588.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean −0.00111
Std Dev 1.001
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

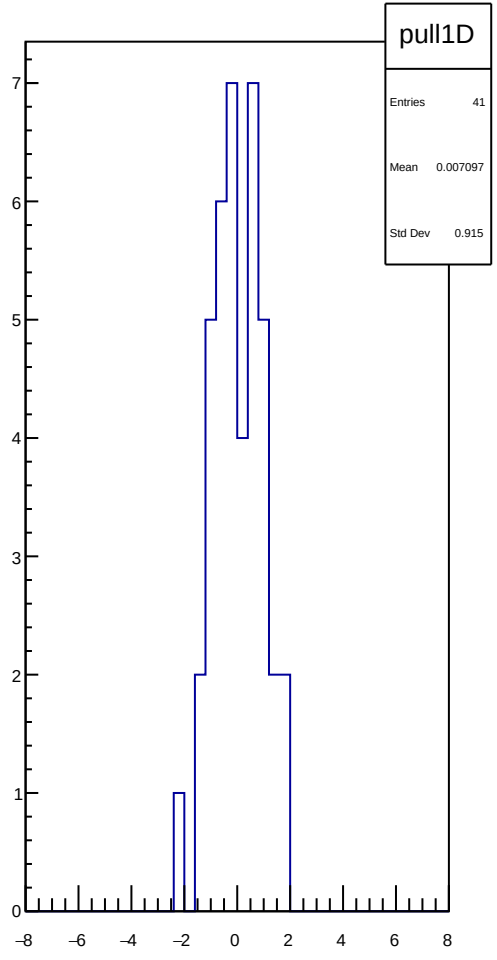

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1448 / 40
p0 24.63 ± 0.02749
28
27
26
25
24
23
22
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

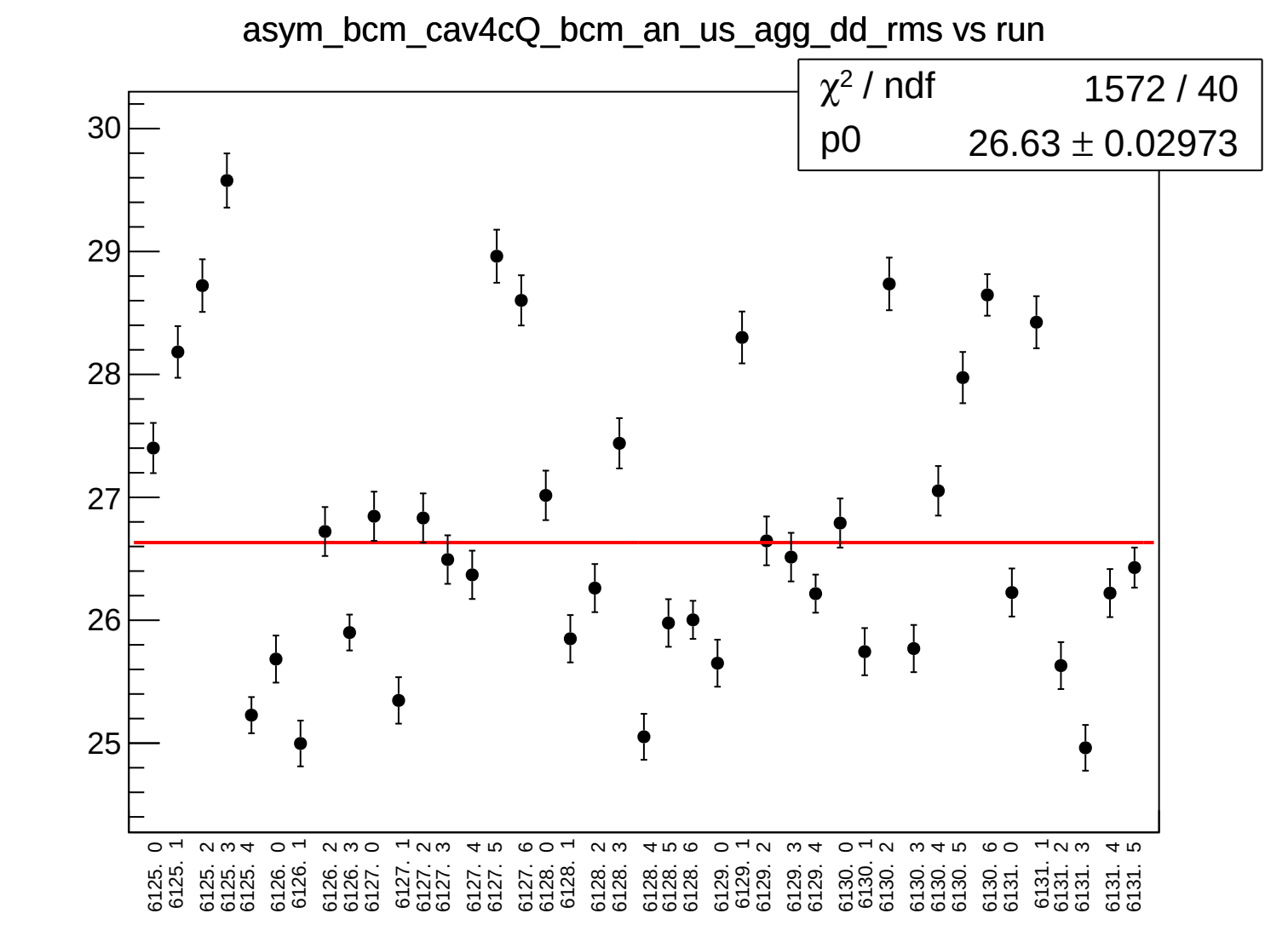

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 8.877 / 40
p0 −449.7 ± 551.2
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 415.5
Std Dev 0
1
0.5
0
−0.5
−1

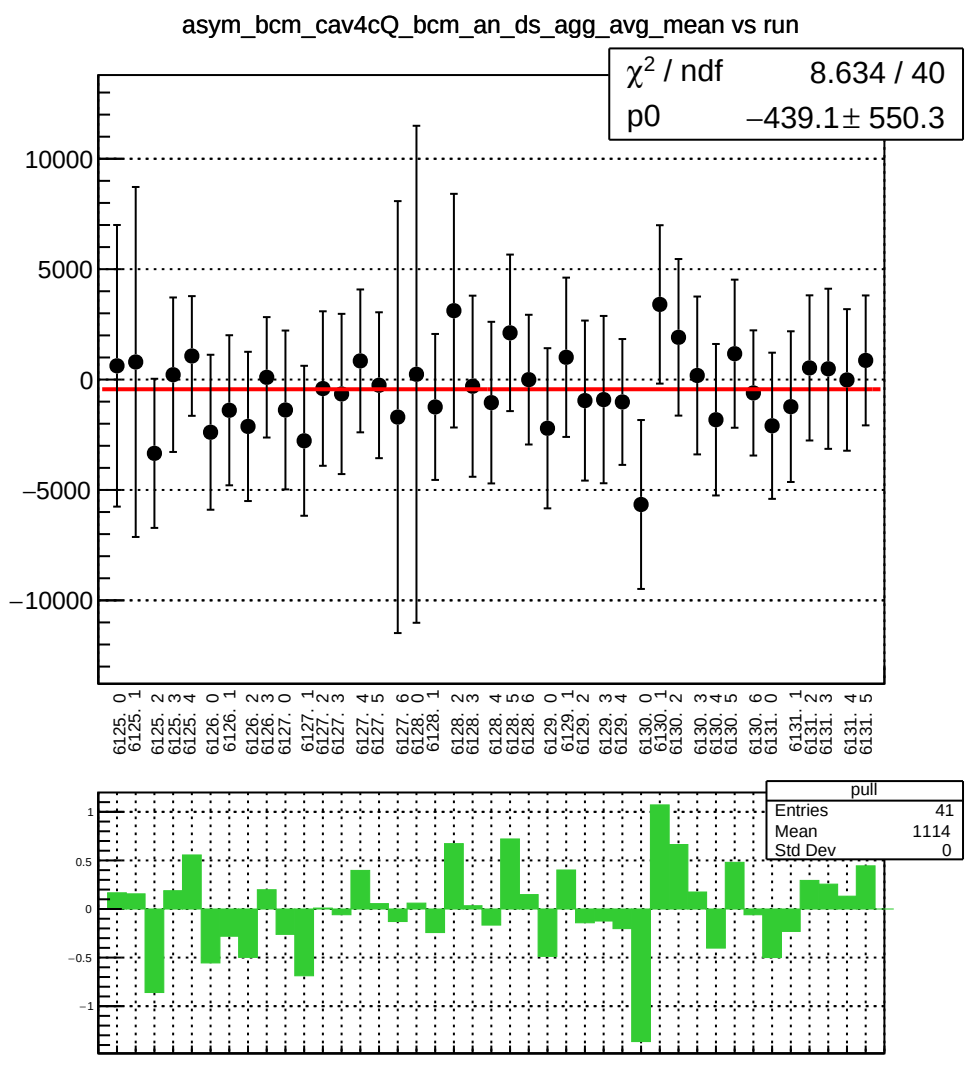

pull1D
Entries 41
Mean 0.002267
Std Dev 0.4653
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

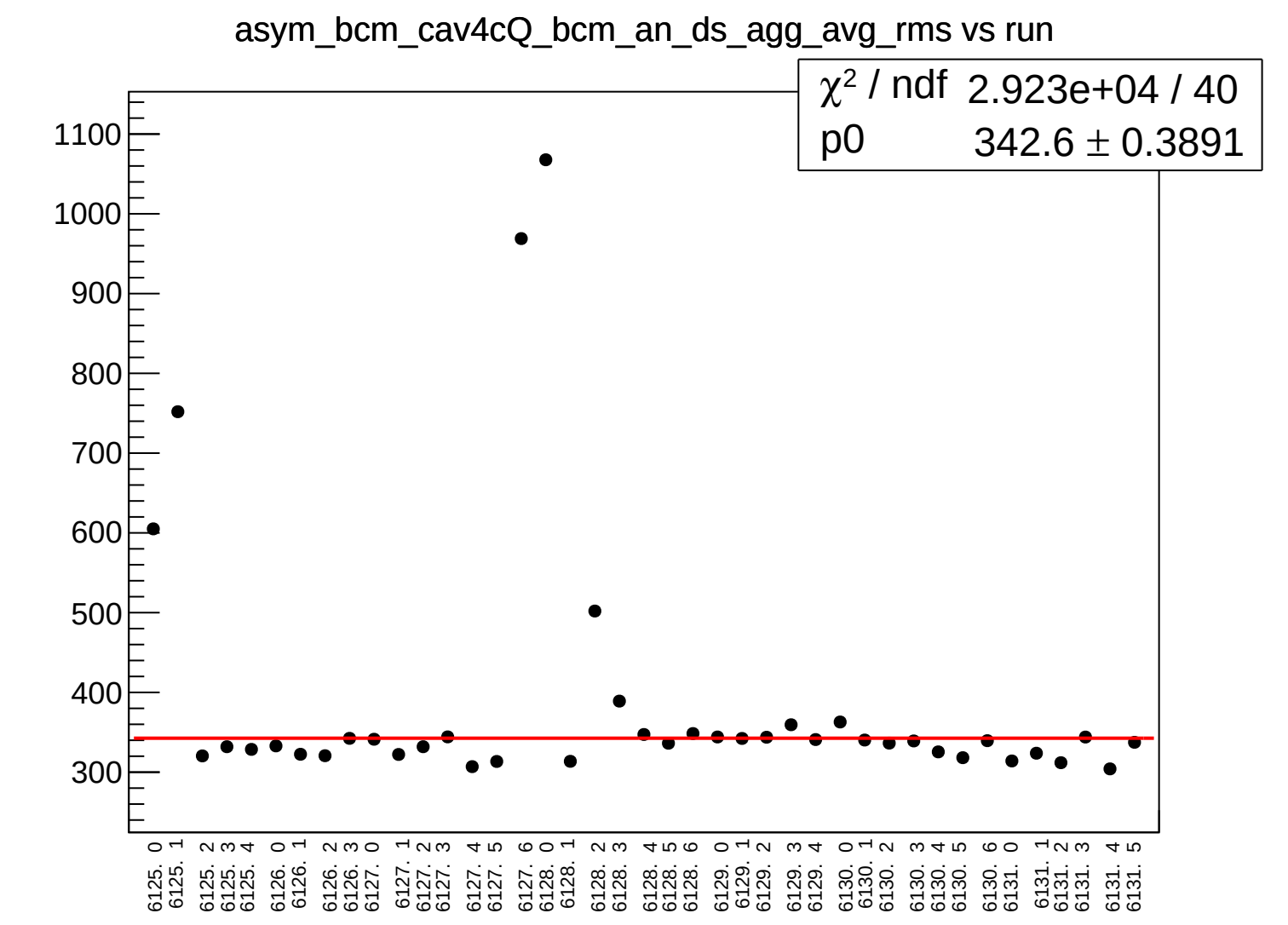

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.923e+04 / 40
p0 343.1 ± 0.3898
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

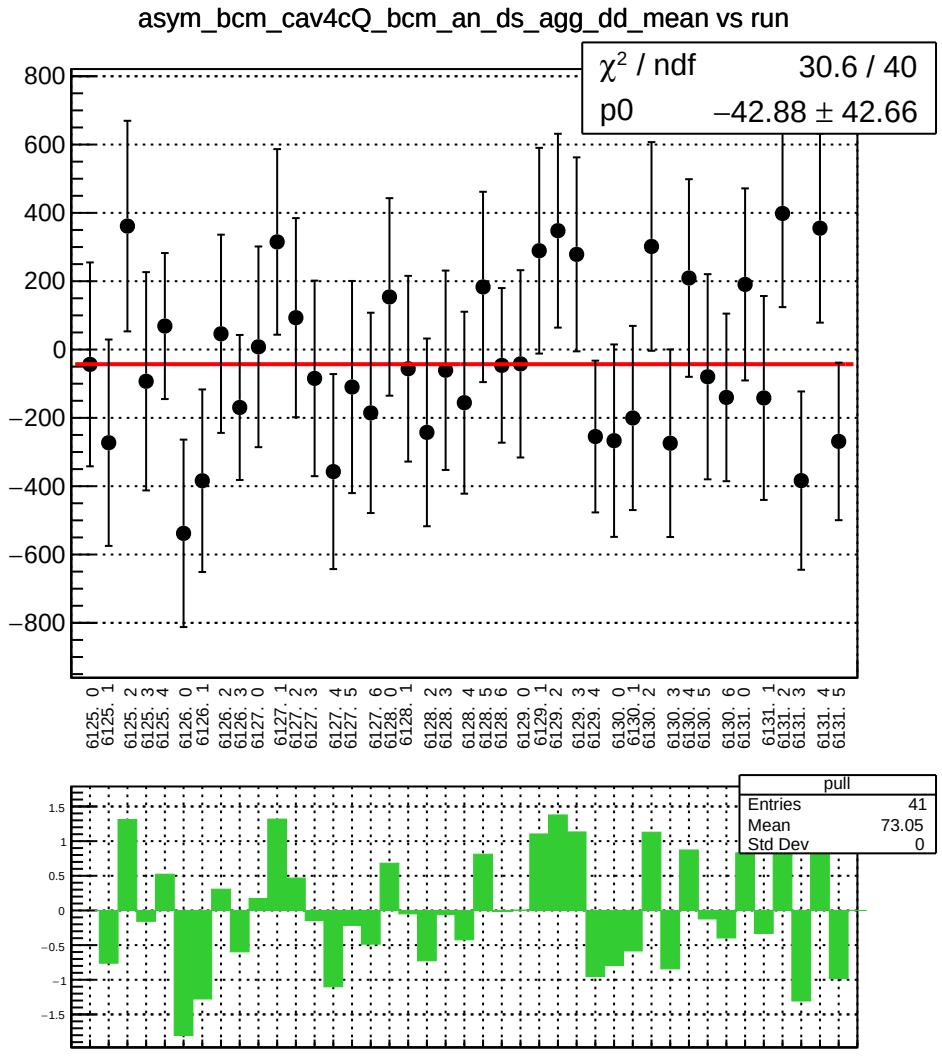

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 34.33 / 40
p0 −39.05 ± 42.04
pull
Entries 41
Mean 202.1
Std Dev 0

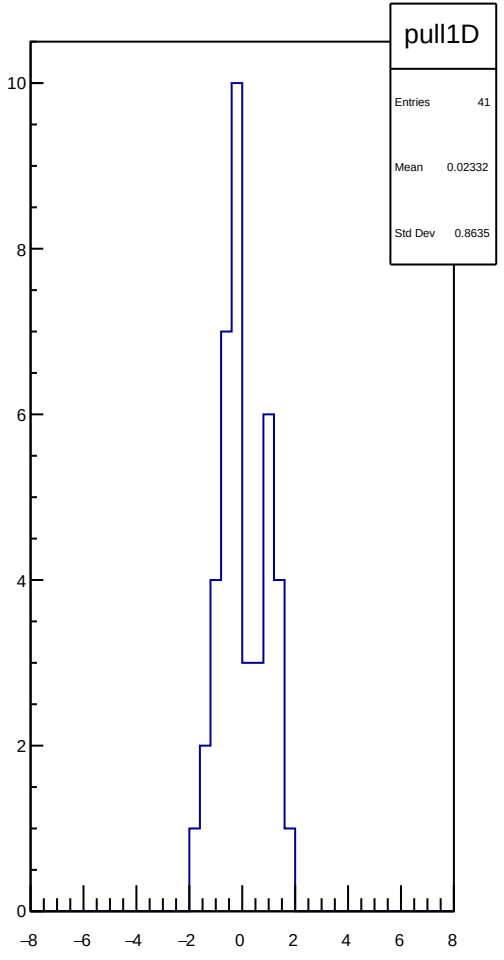

pull1D
Entries 41
Mean 0.007097
Std Dev 0.915

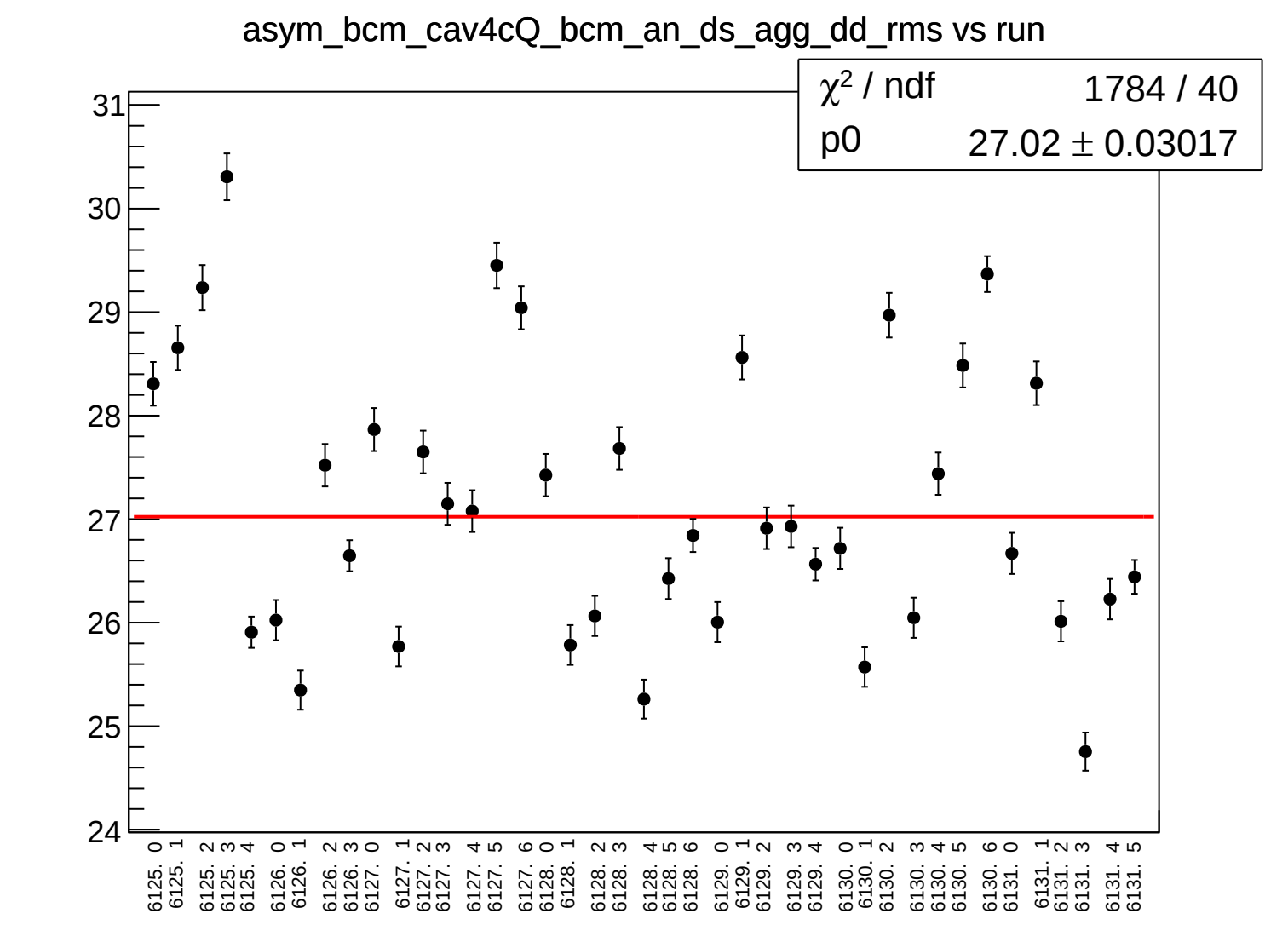

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1572 / 40
p0 26.63 ± 0.02973
30
29
28
27
26
25
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

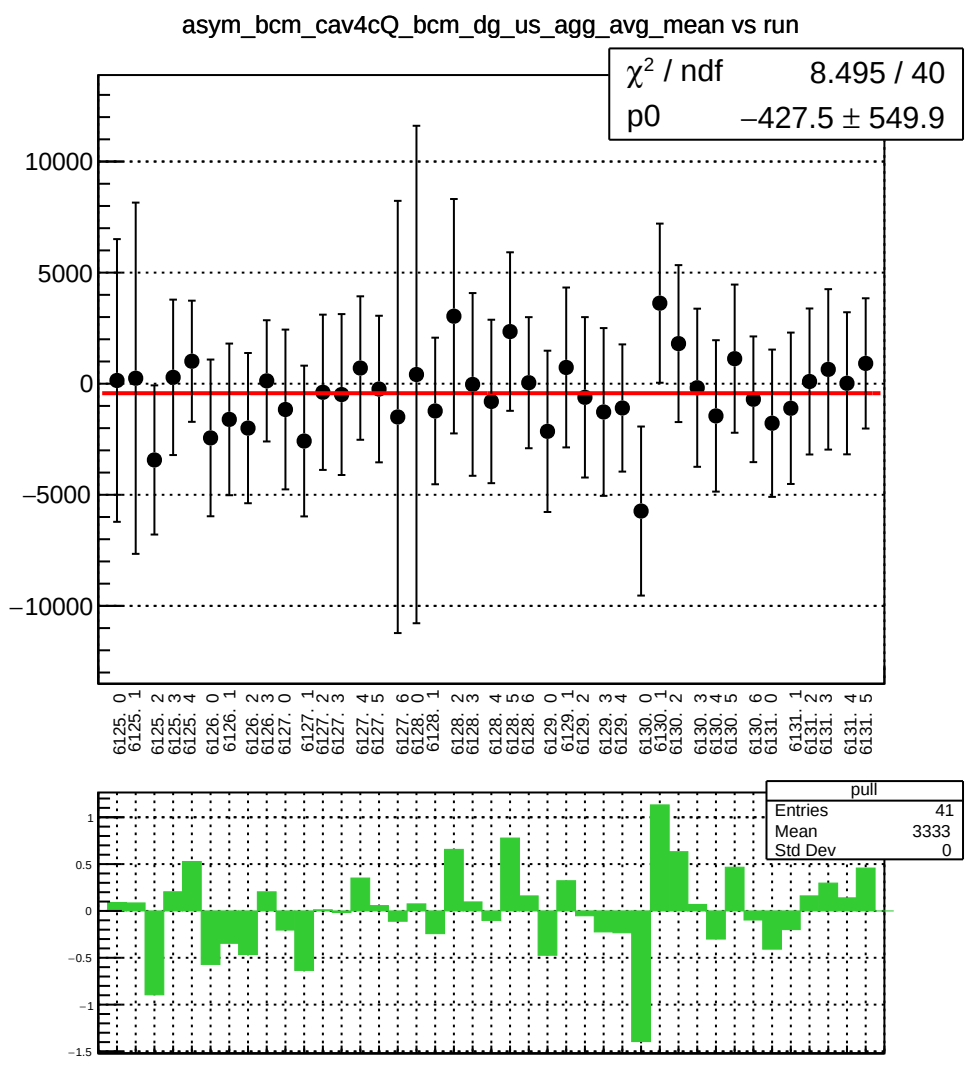

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.634 / 40
p0 −439.1 ± 550.3
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1114
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.0008063
Std Dev 0.4589
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

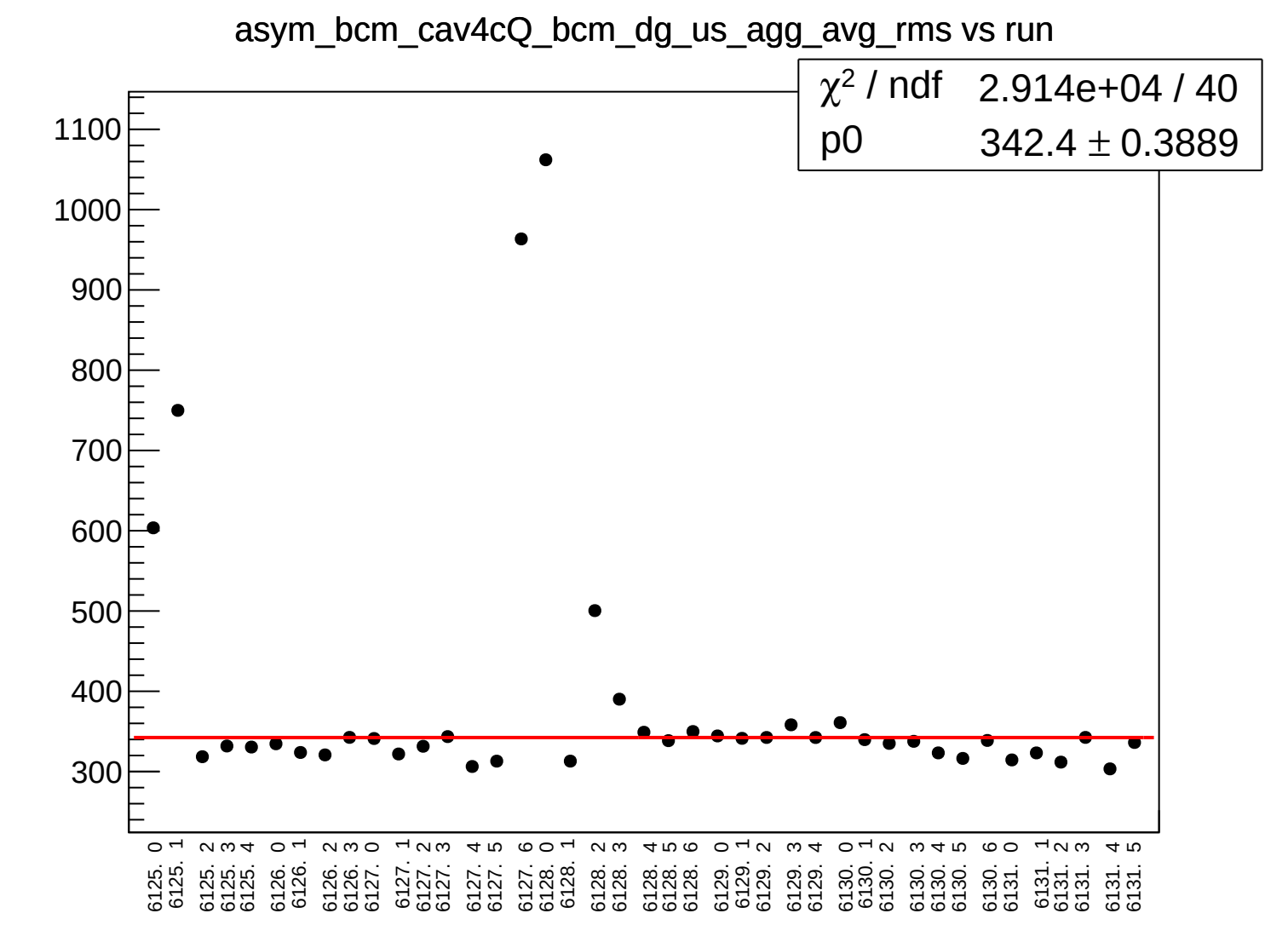

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.923e+04 / 40
p0 342.6 ± 0.3891
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

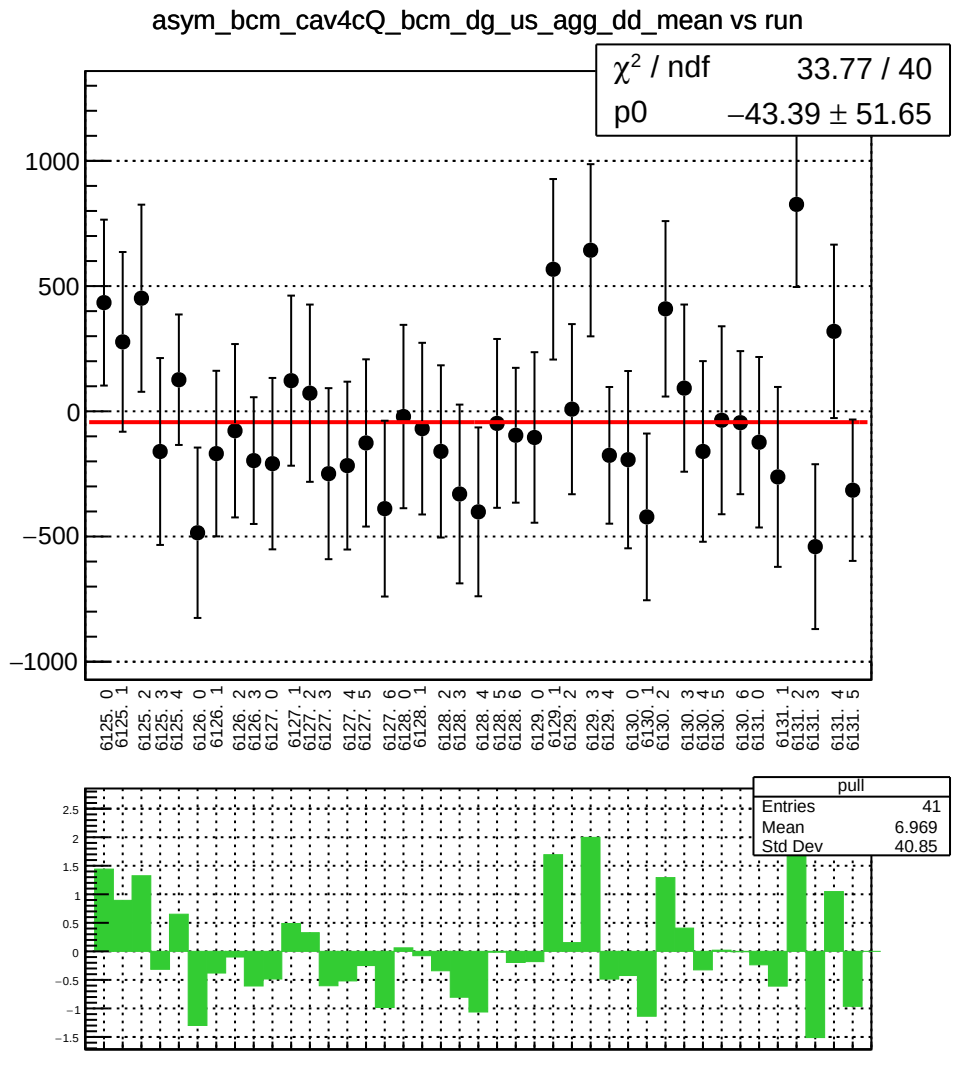

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 30.6 / 40
p0 −42.88 ± 42.66
pull
Entries 41
Mean 73.05
Std Dev 0

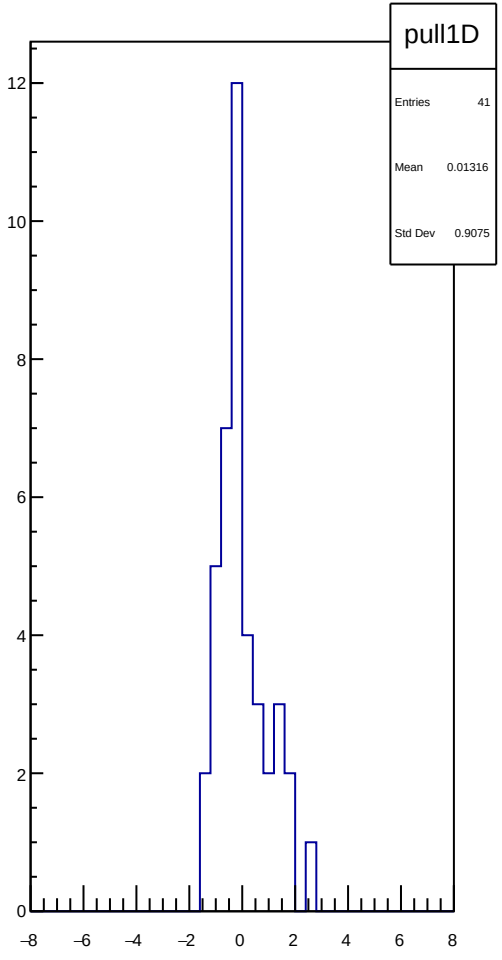

pull1D
Entries 41
Mean 0.02332
Std Dev 0.8635

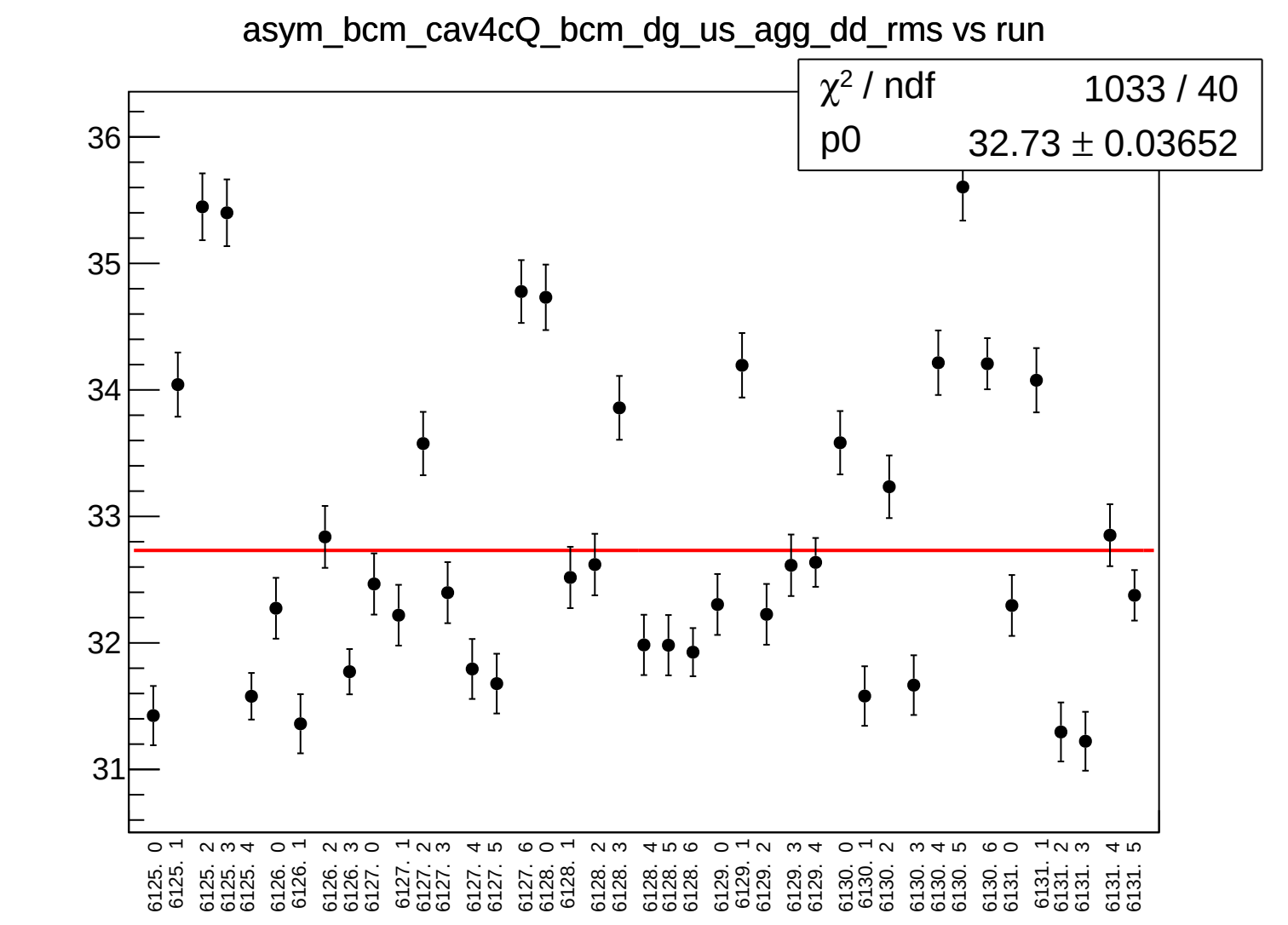

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1784 / 40
p0 27.02 ± 0.03017
31
30
29
28
27
26
25
24
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

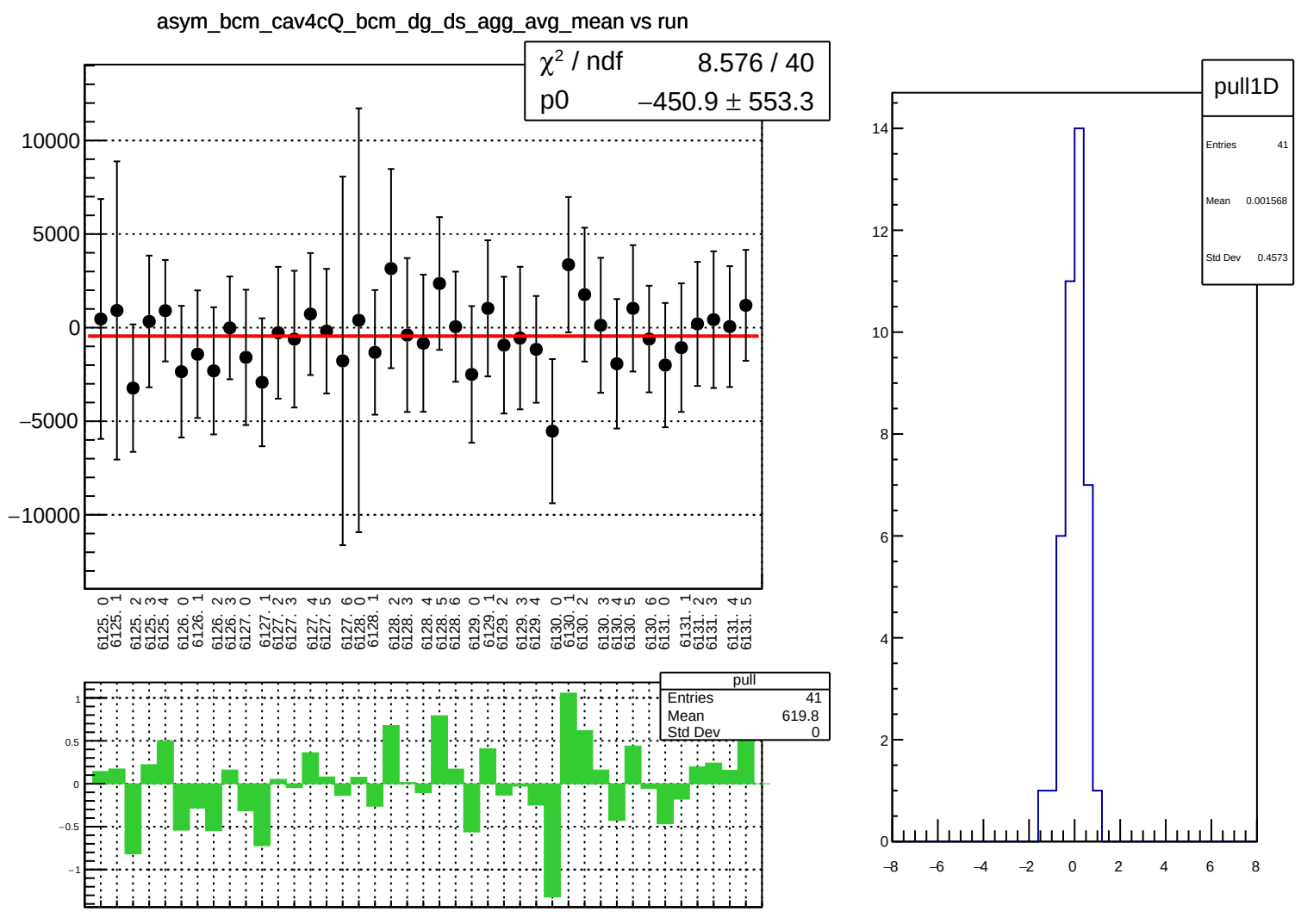

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 8.495 / 40
p0 −427.5 ± 549.9
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 3333
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.0002848
Std Dev 0.4552
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

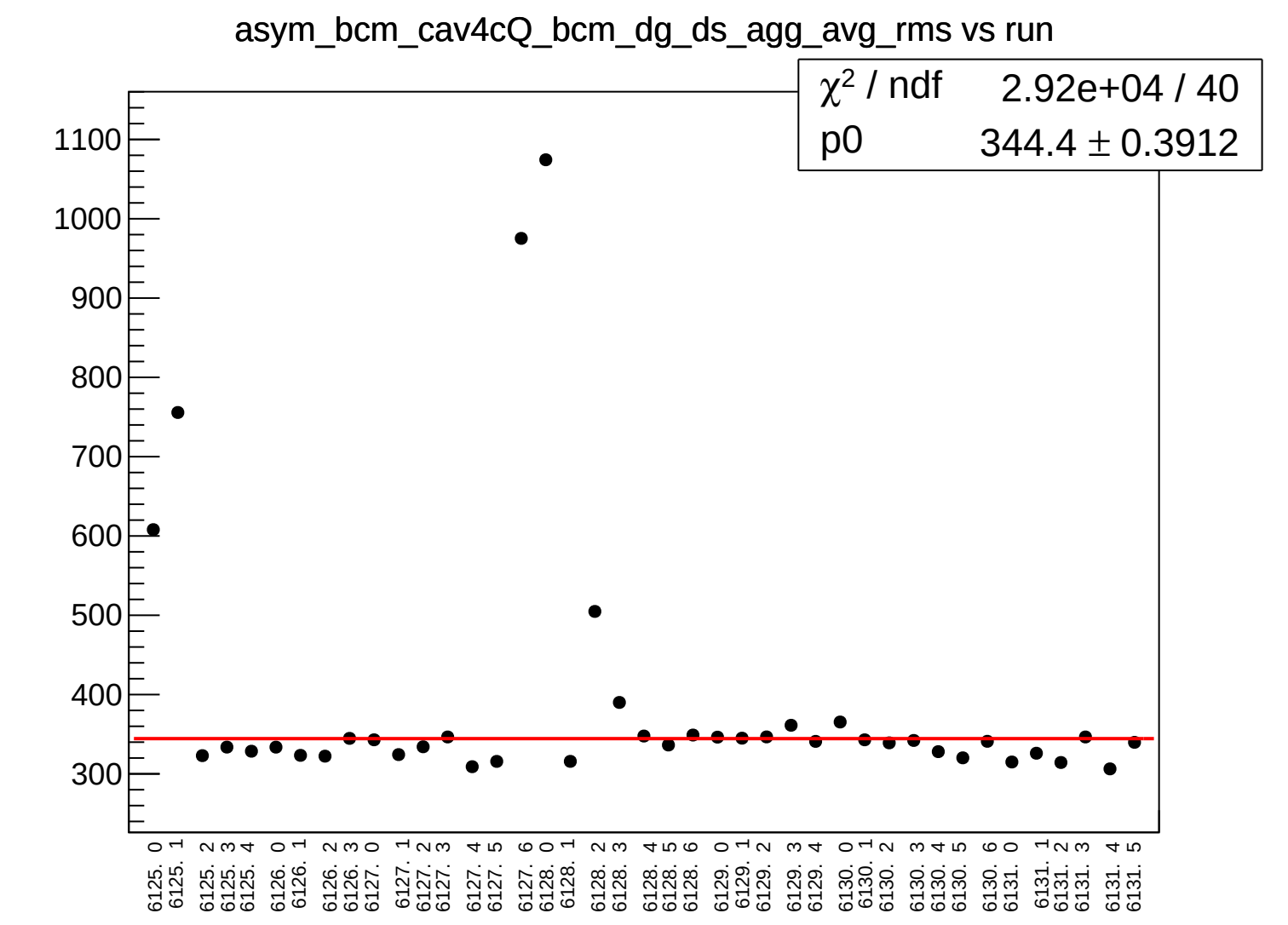

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2.914e+04 / 40
p0 342.4 ± 0.3889
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

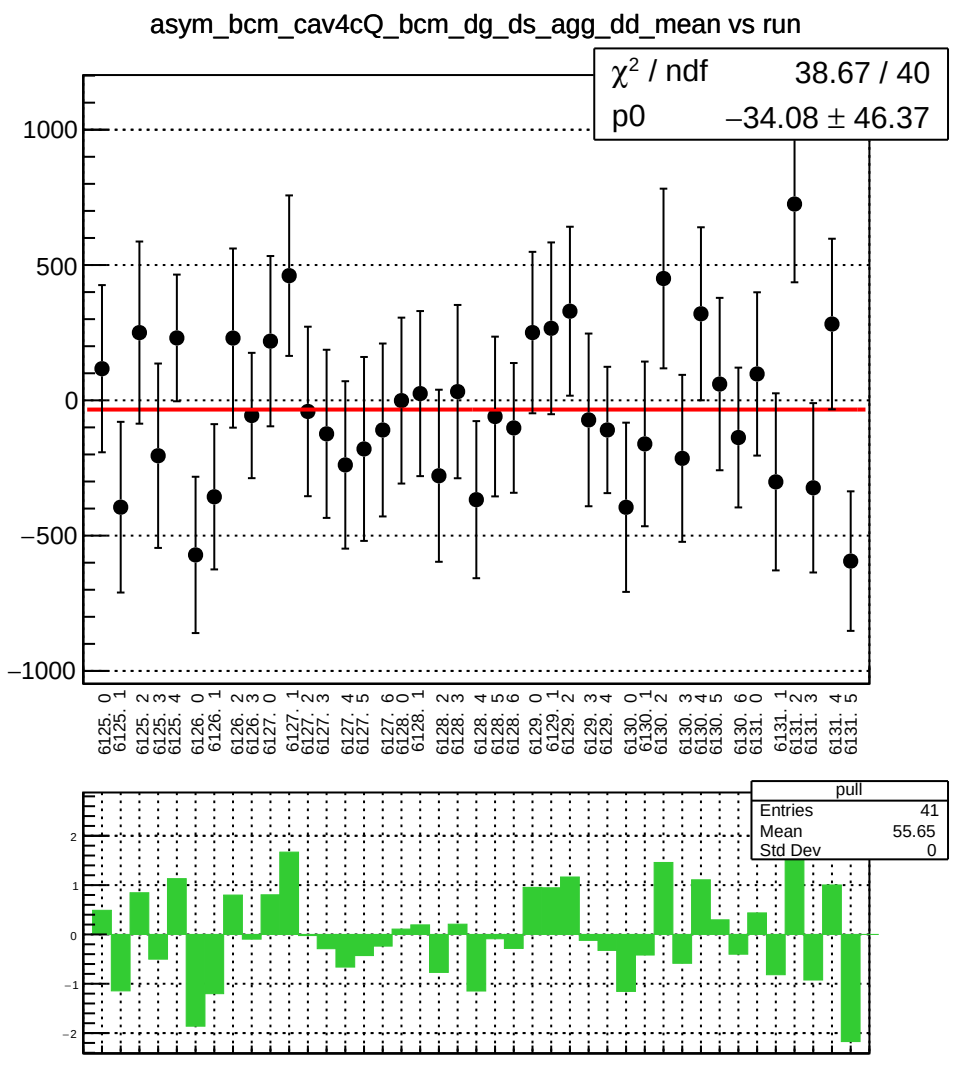

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 33.77 / 40
p0 −43.39 ± 51.65
1000
500
0
−500
−1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 6.969
Std Dev 40.85
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

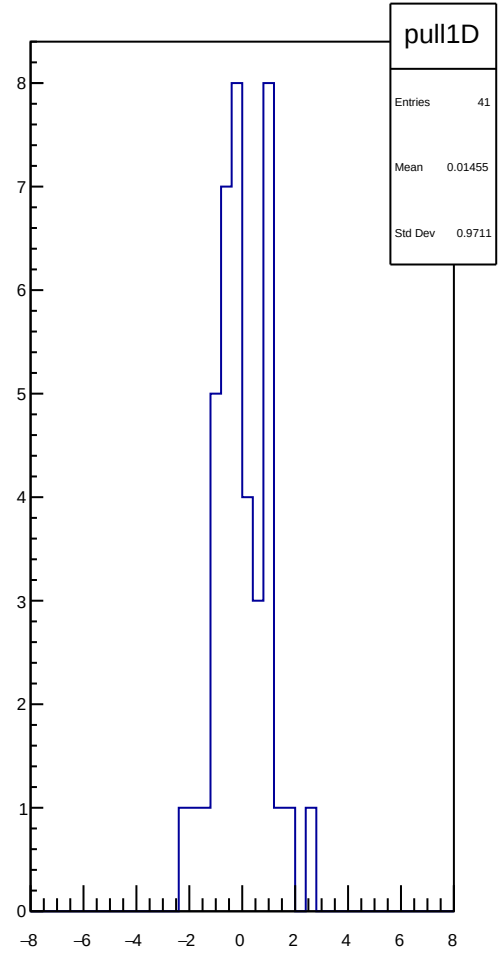

pull1D
Entries 41
Mean 0.01316
Std Dev 0.9075
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

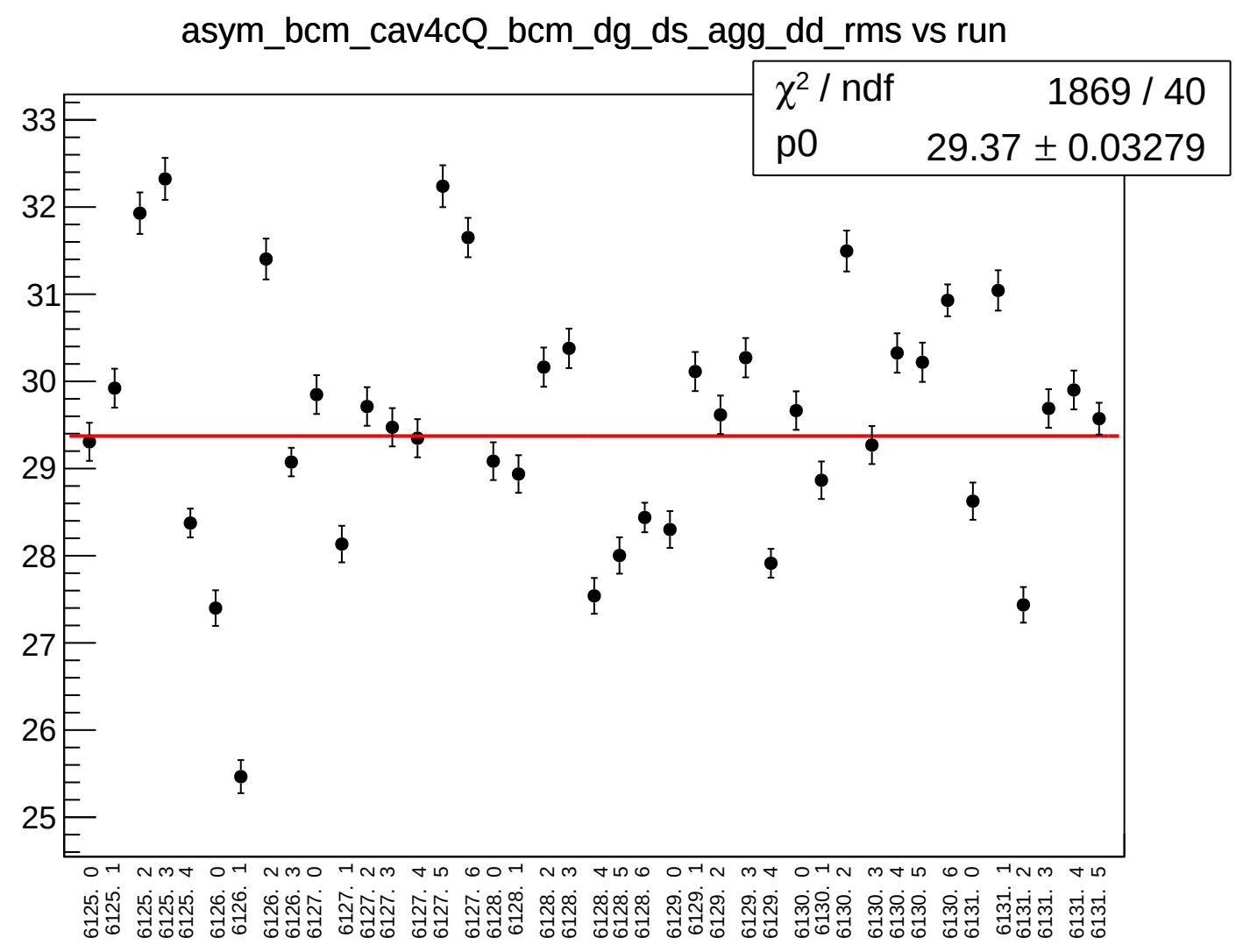

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1033 / 40
p0 32.73 ± 0.03652
36
35
34
33
32
31
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

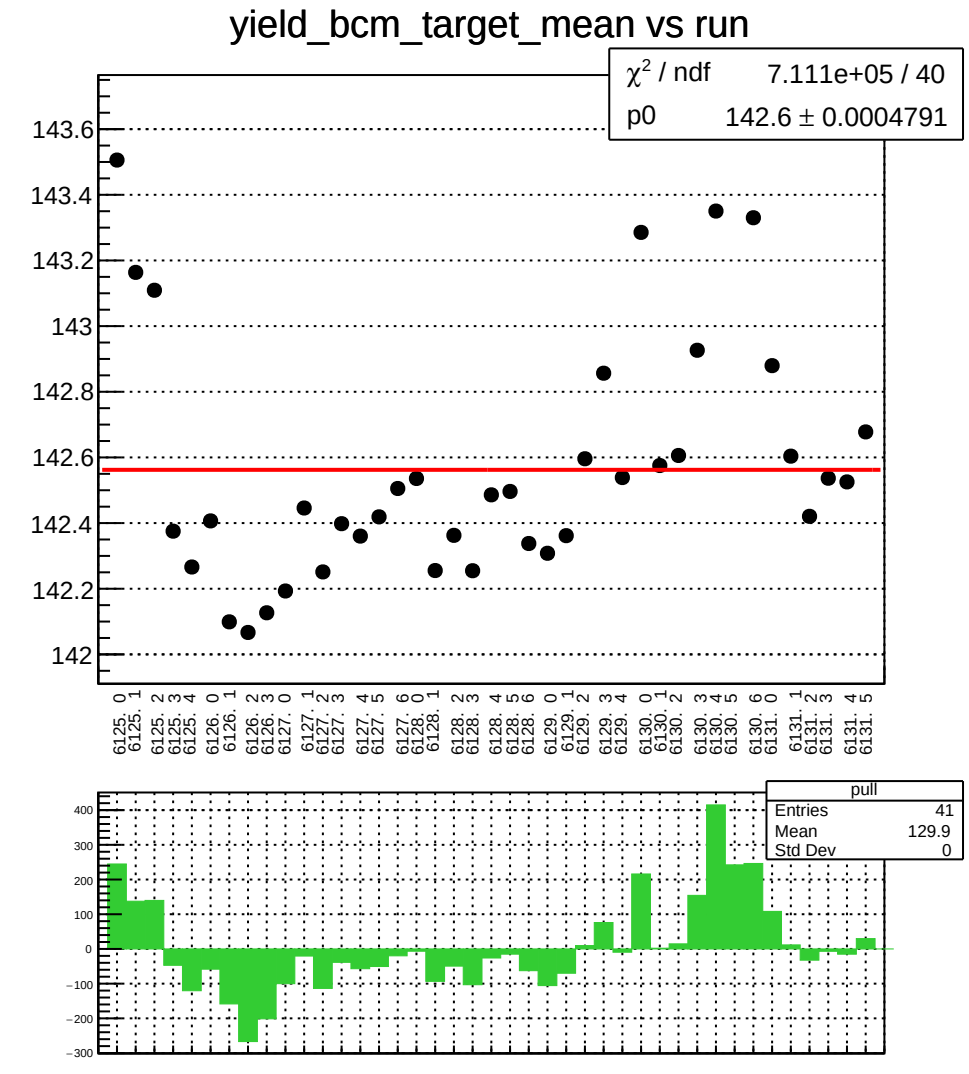

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 8.576 / 40
p0 −450.9 ± 553.3
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 619.8
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.001568
Std Dev 0.4573
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

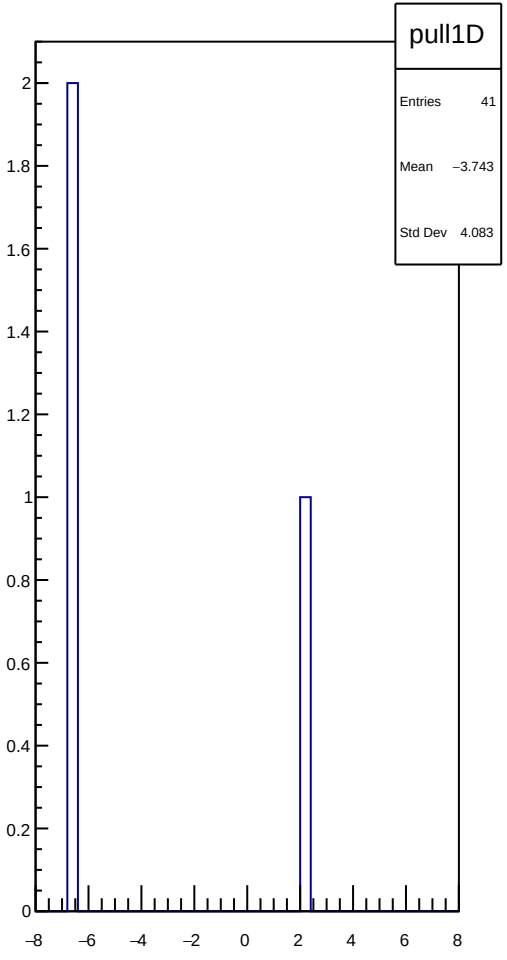

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.92e+04 / 40
p0 344.4 ± 0.3912
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

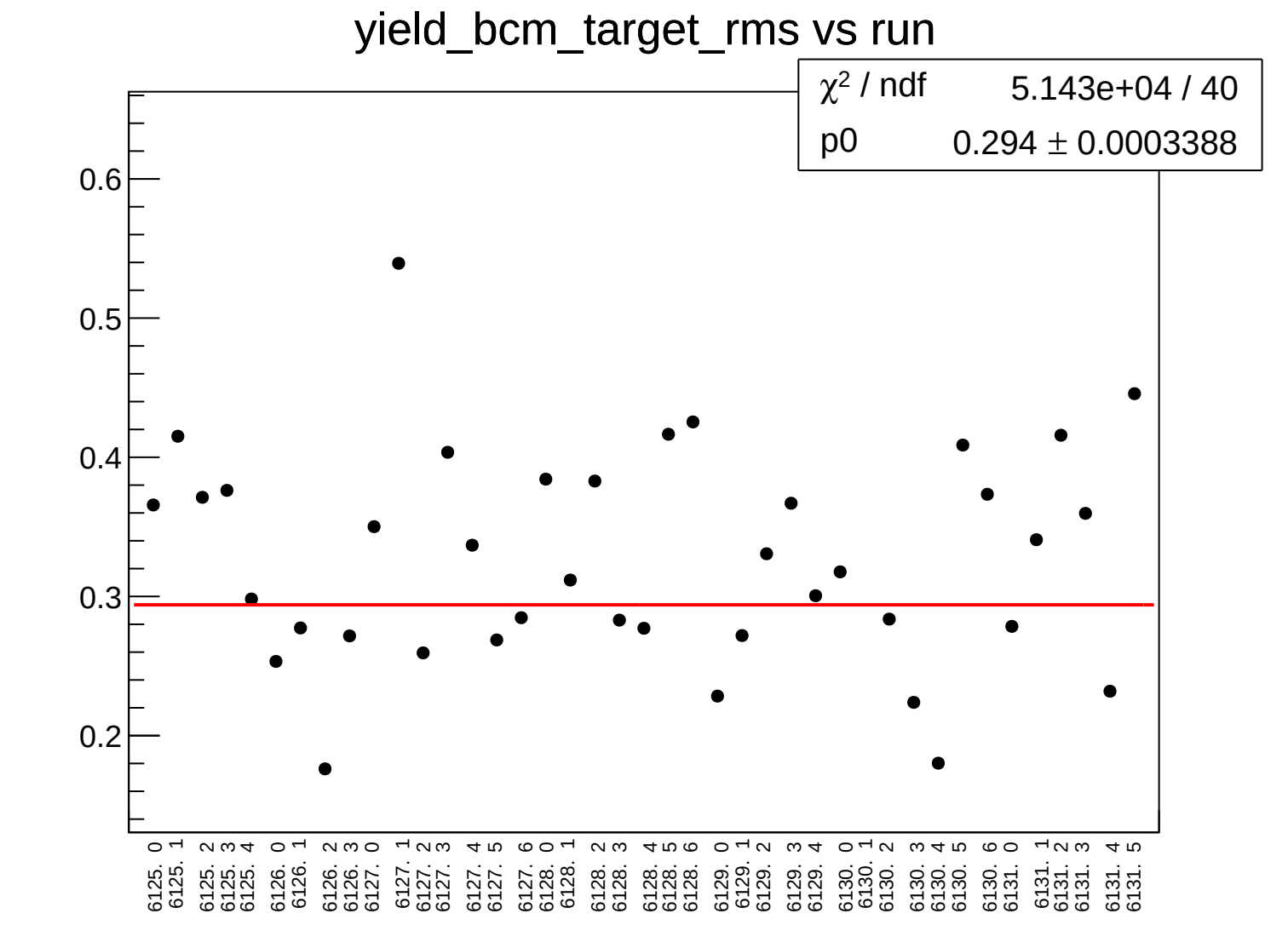

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 38.67 / 40
p0 −34.08 ± 46.37
1000
500
0
−500
−1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 55.65
Std Dev 0
2
1
0
−1
−2

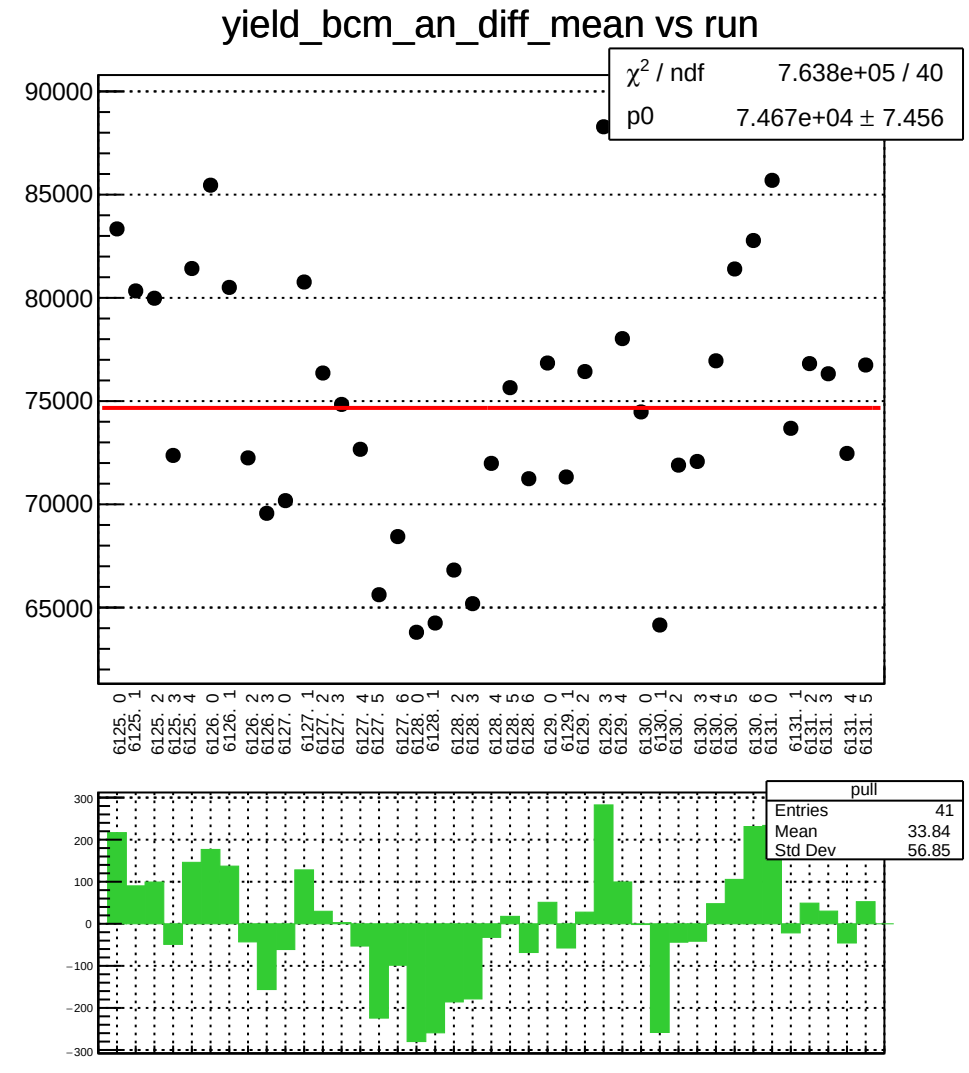

pull1D
Entries 41
Mean 0.01455
Std Dev 0.9711
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

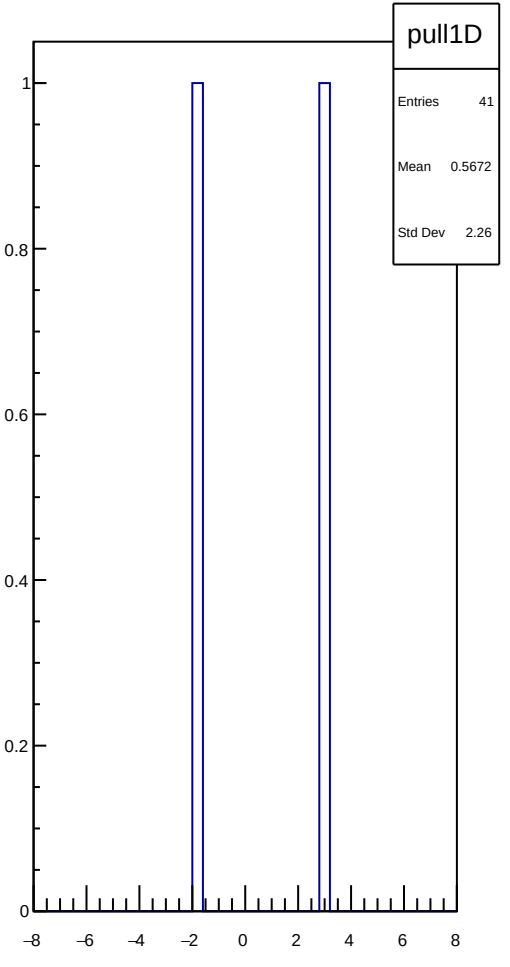

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1869 / 40
p0 29.37 ± 0.03279
33
32
31
30
29
28
27
26
25
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

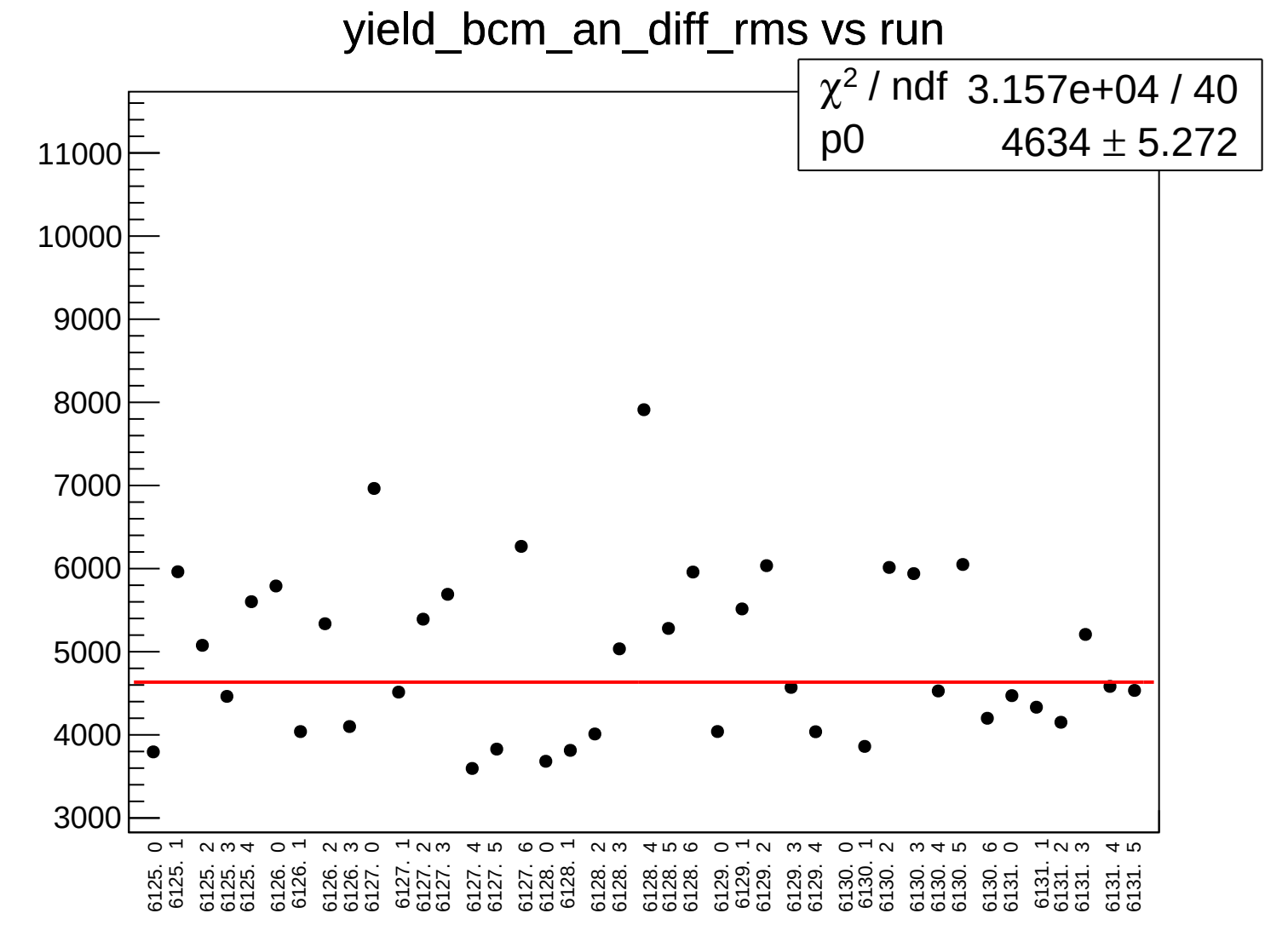

yield_bcm_target_mean vs run
χ² / ndf 7.111e+05 / 40
p0 142.6 ± 0.0004791
143.6
143.4
143.2
143
142.8
142.6
142.4
142.2
142
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6126. 4
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 129.9
Std Dev 0
400
300
200
100
0
−100
−200
−300

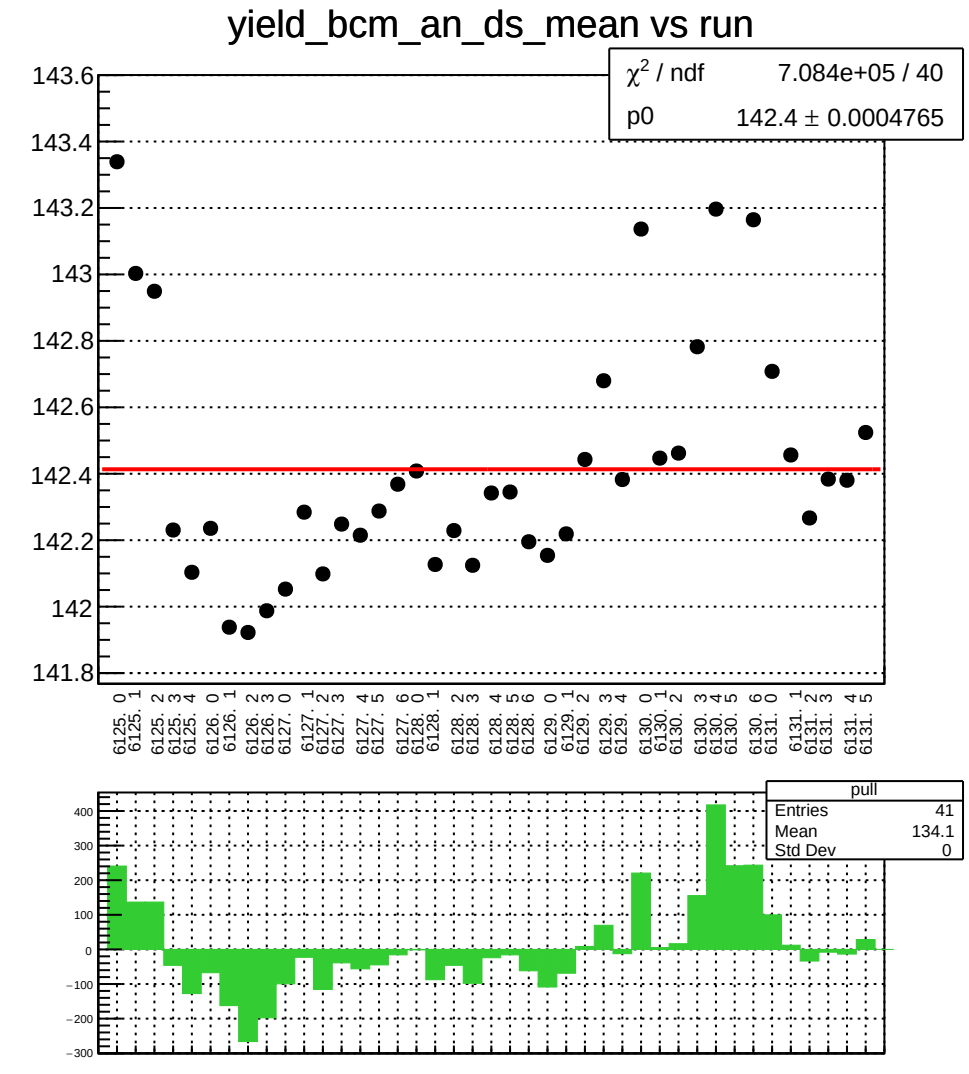

pull1D
Entries 41
Mean −3.743
Std Dev 4.083
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

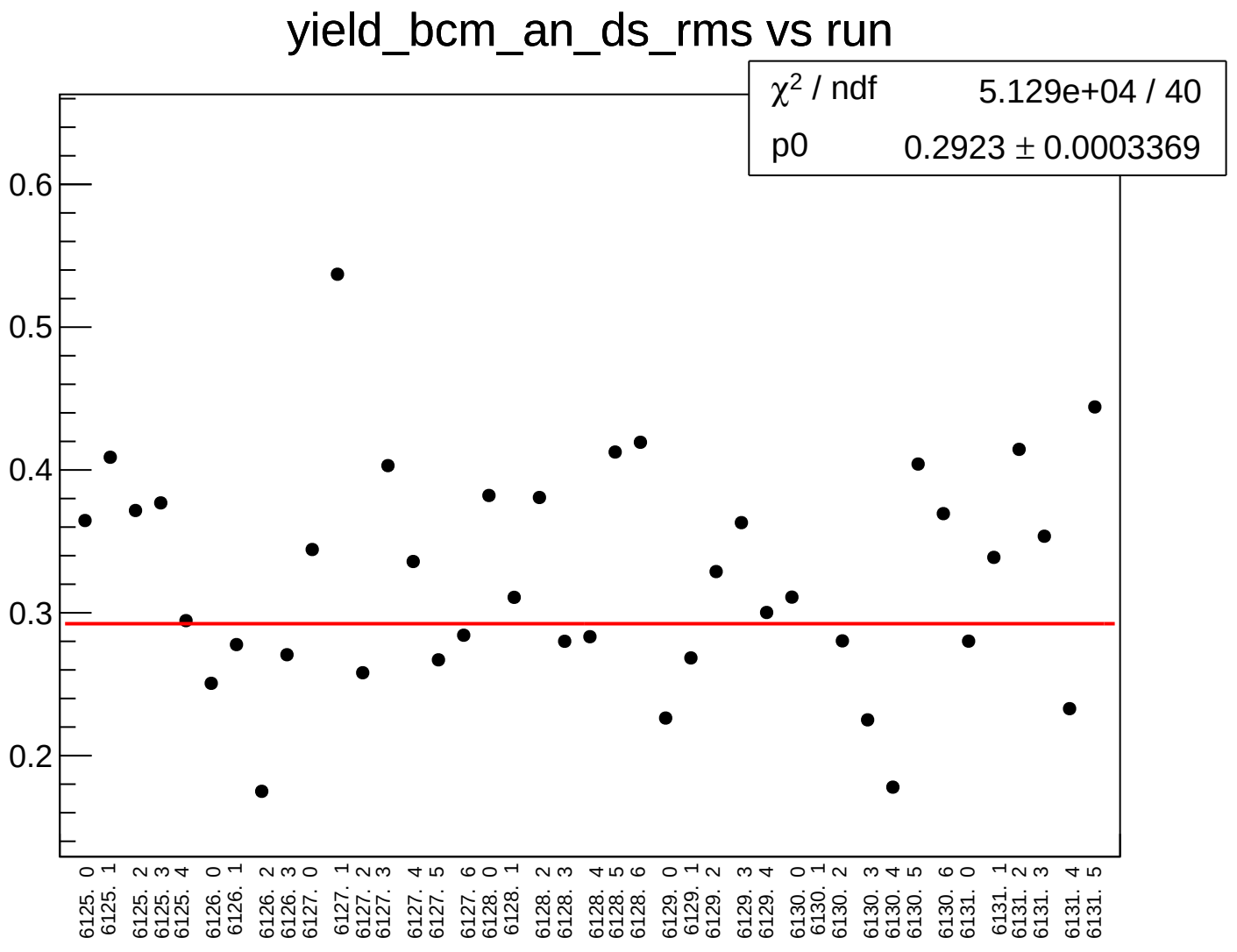

yield_bcm_target_rms vs run
χ² / ndf 5.143e+04 / 40
p0 0.294 ± 0.0003388
0.6
0.5
0.4
0.3
0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

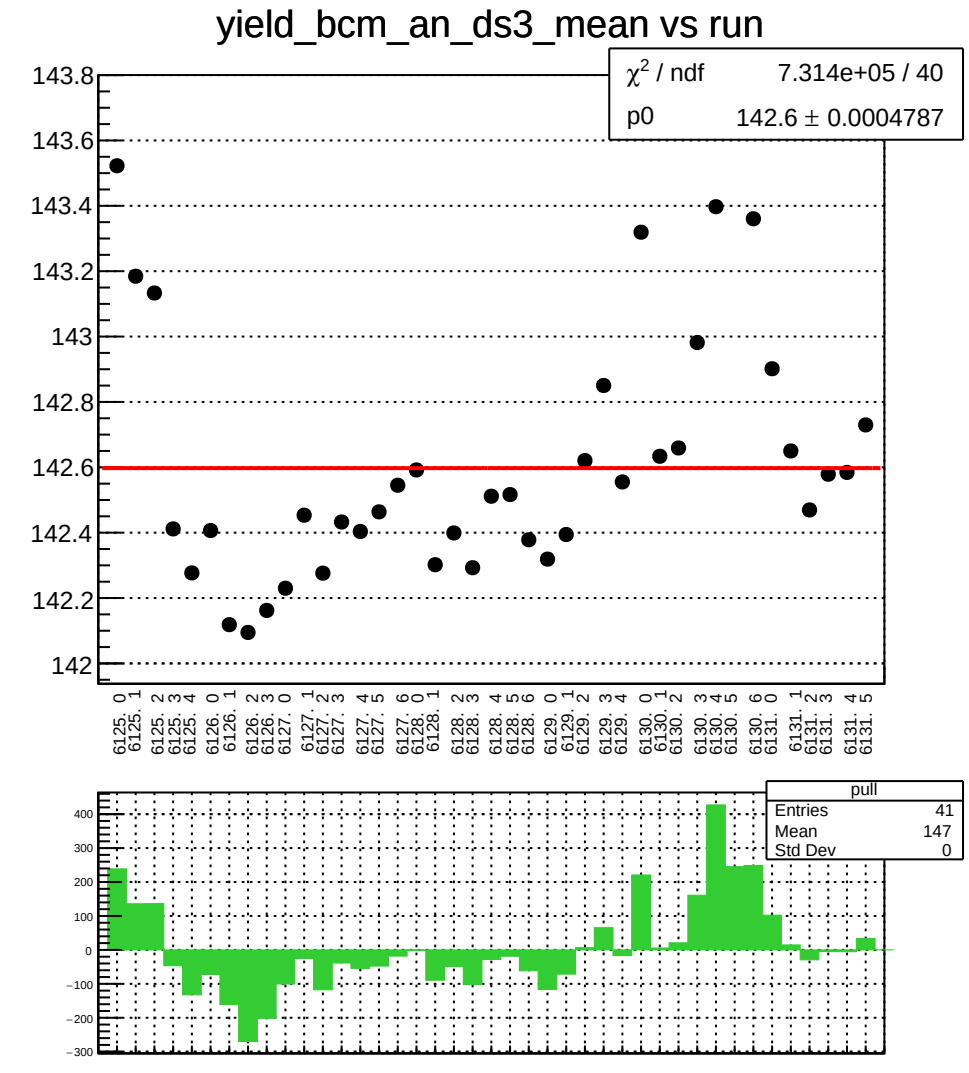

yield_bcm_an_diff_mean vs run
χ² / ndf 7.638e+05 / 40
p0 7.467e+04 ± 7.456
90000
85000
80000
75000
70000
65000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 33.84
Std Dev 56.85
300
200
100
0
−100
−200
−300

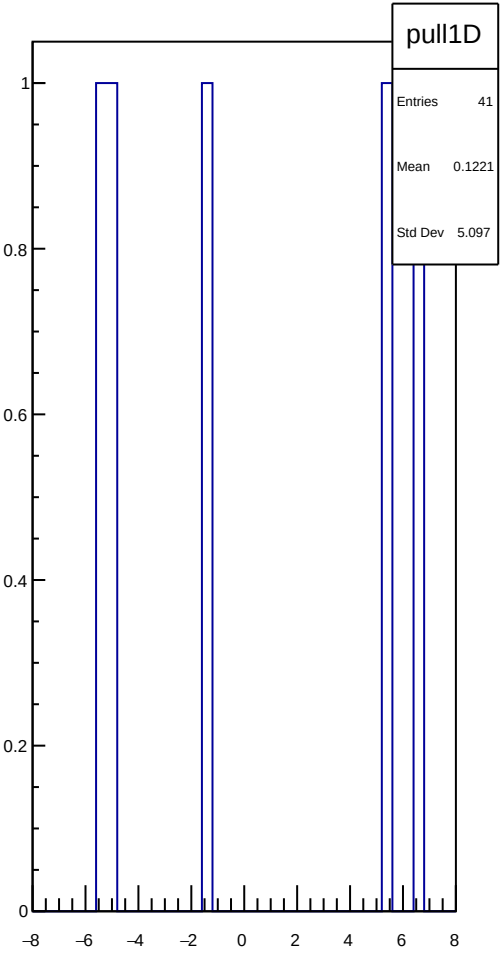

pull1D
Entries 41
Mean 0.5672
Std Dev 2.26
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

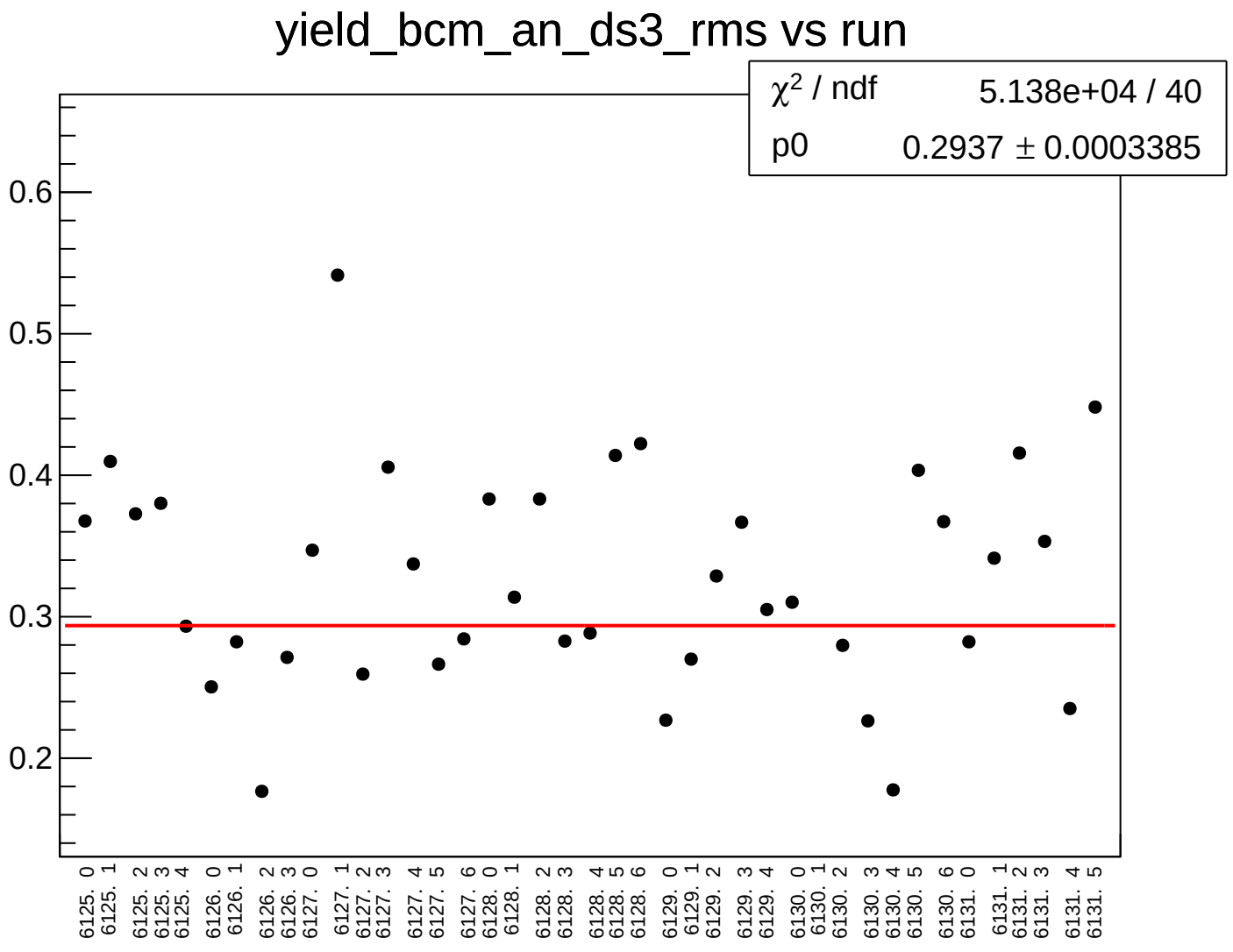

yield_bcm_an_diff_rms vs run
χ² / ndf 3.157e+04 / 40
p0 4634 ± 5.272
11000
10000
9000
8000
7000
6000
5000
4000
3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

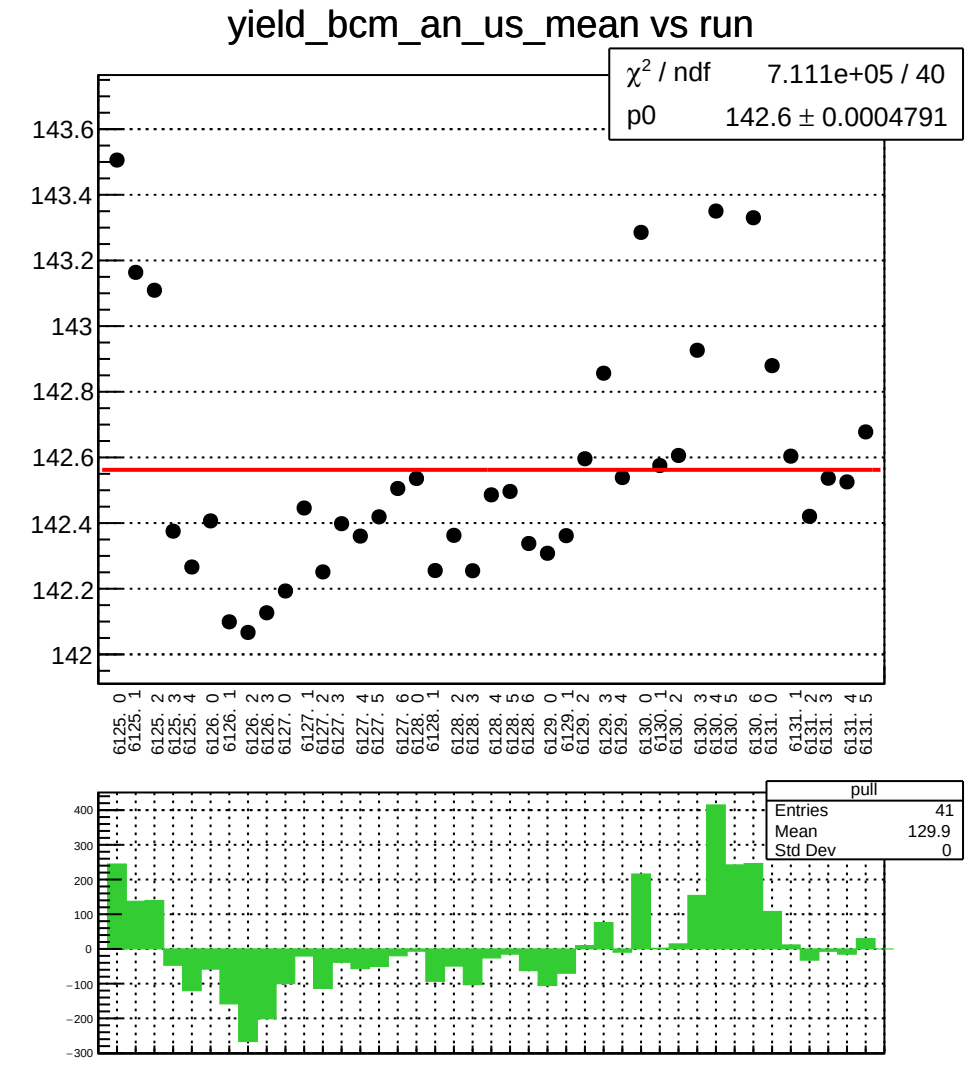

yield_bcm_an_ds_mean vs run
χ² / ndf 7.084e+05 / 40
p0 142.4 ± 0.0004765
143.6
143.4
143.2
143
142.8
142.6
142.4
142.2
142
141.8
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 134.1
Std Dev 0
400
300
200
100
0
−100
−200
−300
pull1D
Entries 41
Mean −1.342
Std Dev 5.348
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

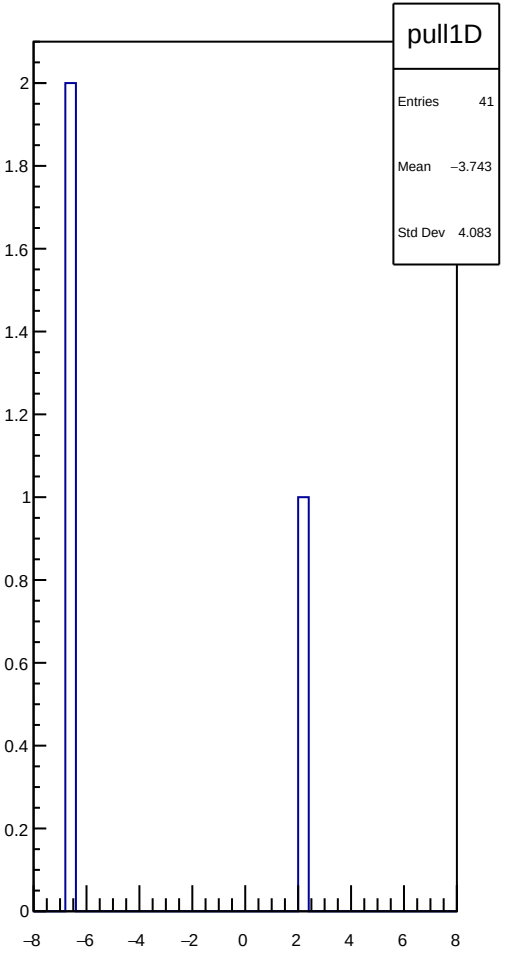

yield_bcm_an_ds_rms vs run
χ² / ndf 5.129e+04 / 40
p0 0.2923 ± 0.0003369
0.6
0.5
0.4
0.3
0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

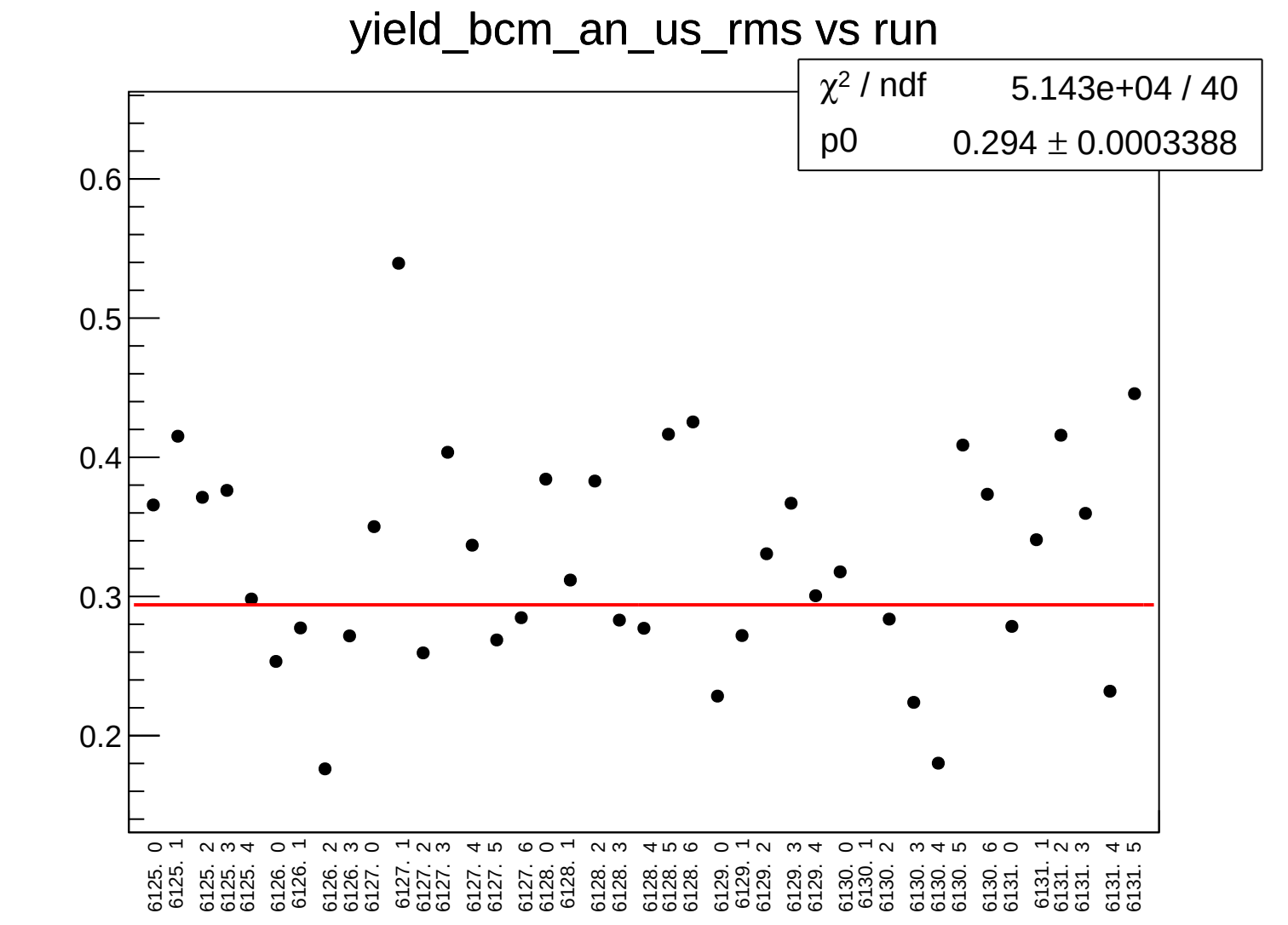

yield_bcm_an_ds3_mean vs run
χ² / ndf 7.314e+05 / 40
p0 142.6 ± 0.0004787
143.8
143.6
143.4
143.2
143
142.8
142.6
142.4
142.2
142
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 147
Std Dev 0
400
300
200
100
0
−100
−200
−300

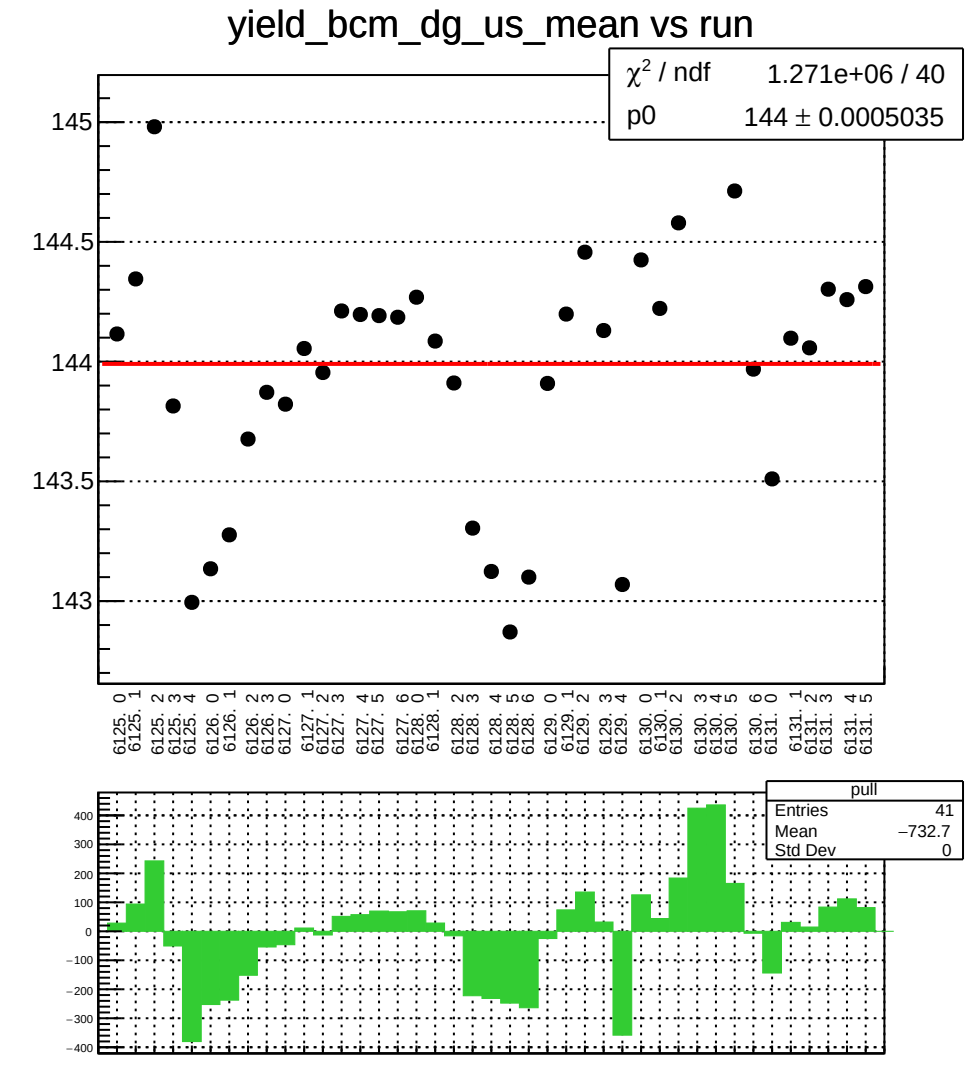

pull1D
Entries 41
Mean 0.1221
Std Dev 5.097
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

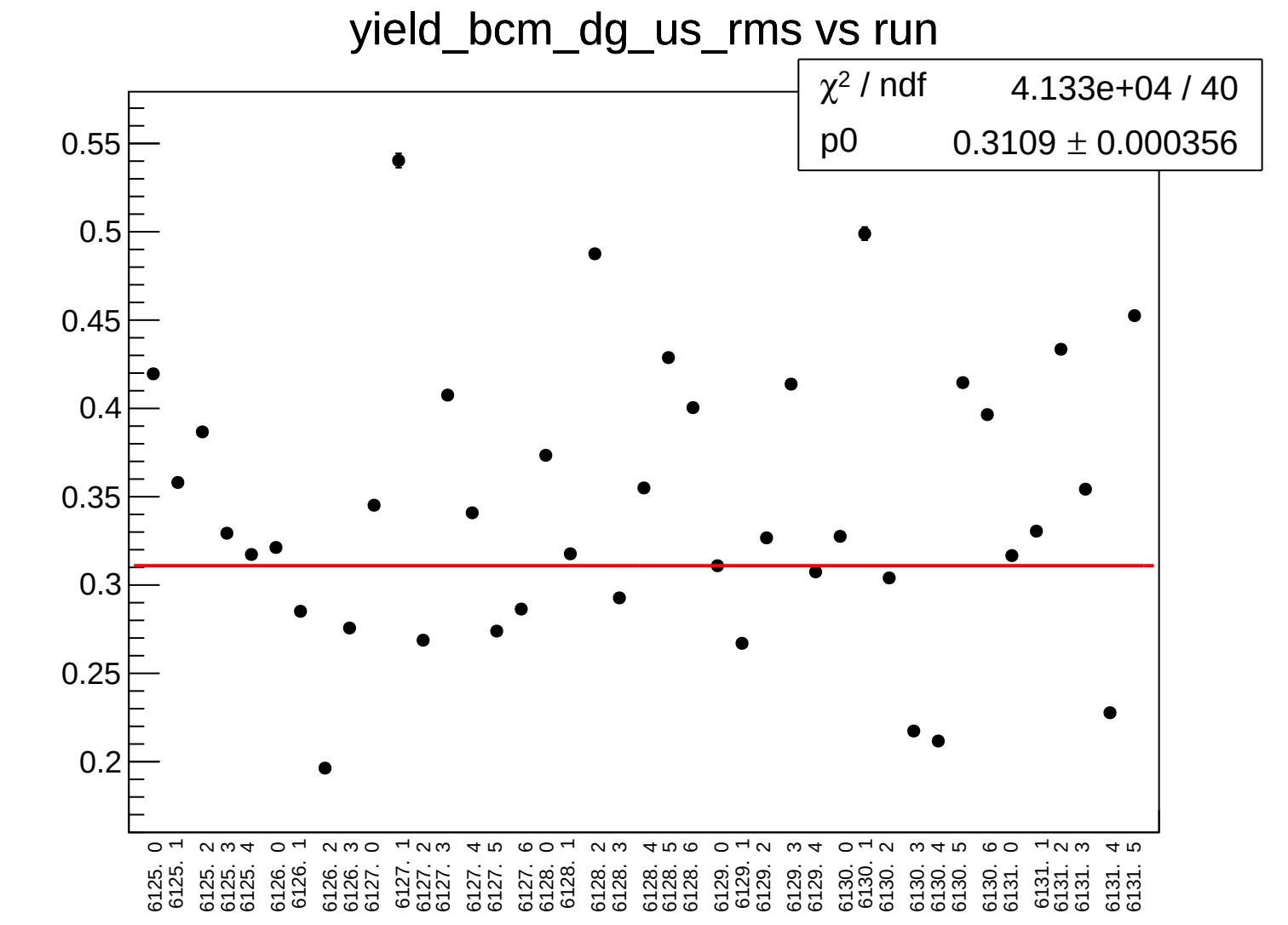

yield_bcm_an_ds3_rms vs run
χ² / ndf 5.138e+04 / 40
p0 0.2937 ± 0.0003385
0.6
0.5
0.4
0.3
0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

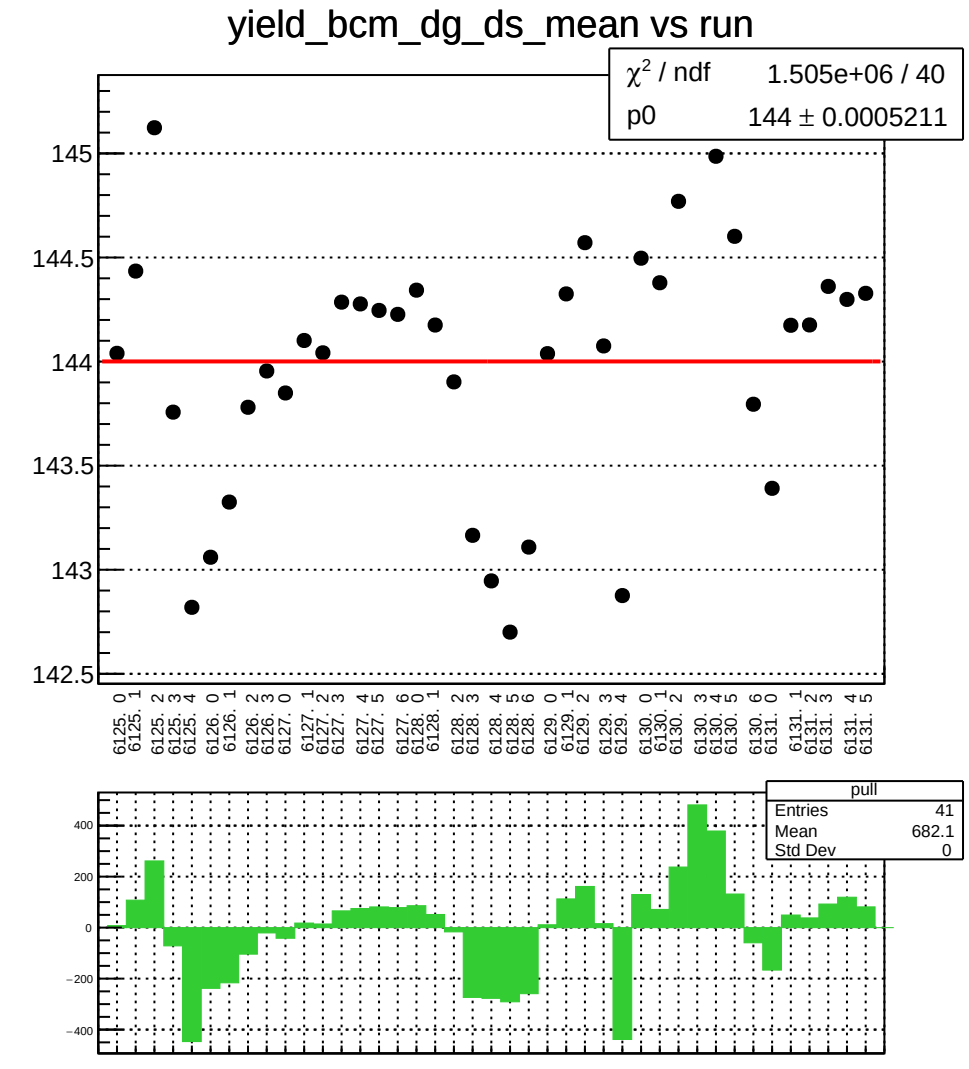

yield_bcm_an_us_mean vs run
χ² / ndf 7.111e+05 / 40
p0 142.6 ± 0.0004791
143.6
143.4
143.2
143
142.8
142.6
142.4
142.2
142
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6126. 4
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 129.9
Std Dev 0
400
300
200
100
0
−100
−200
−300

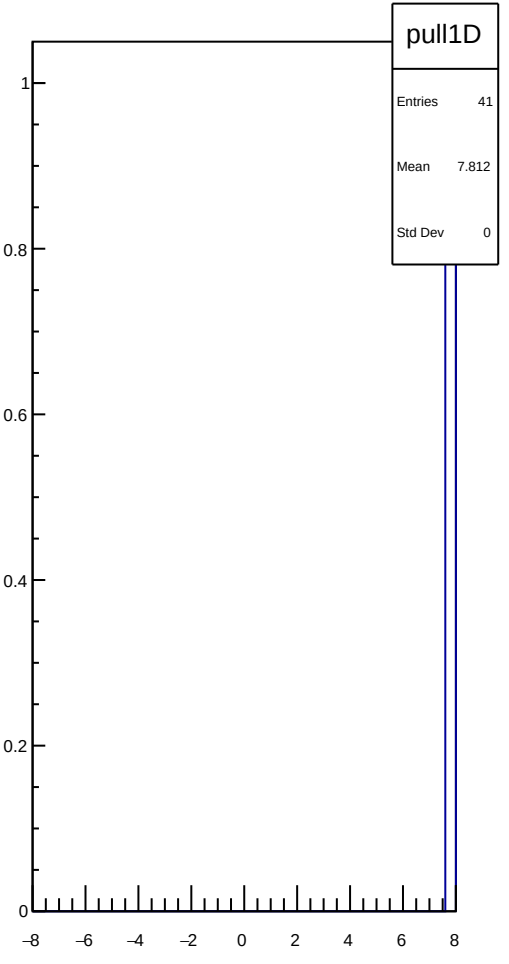

pull1D
Entries 41
Mean −3.743
Std Dev 4.083
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

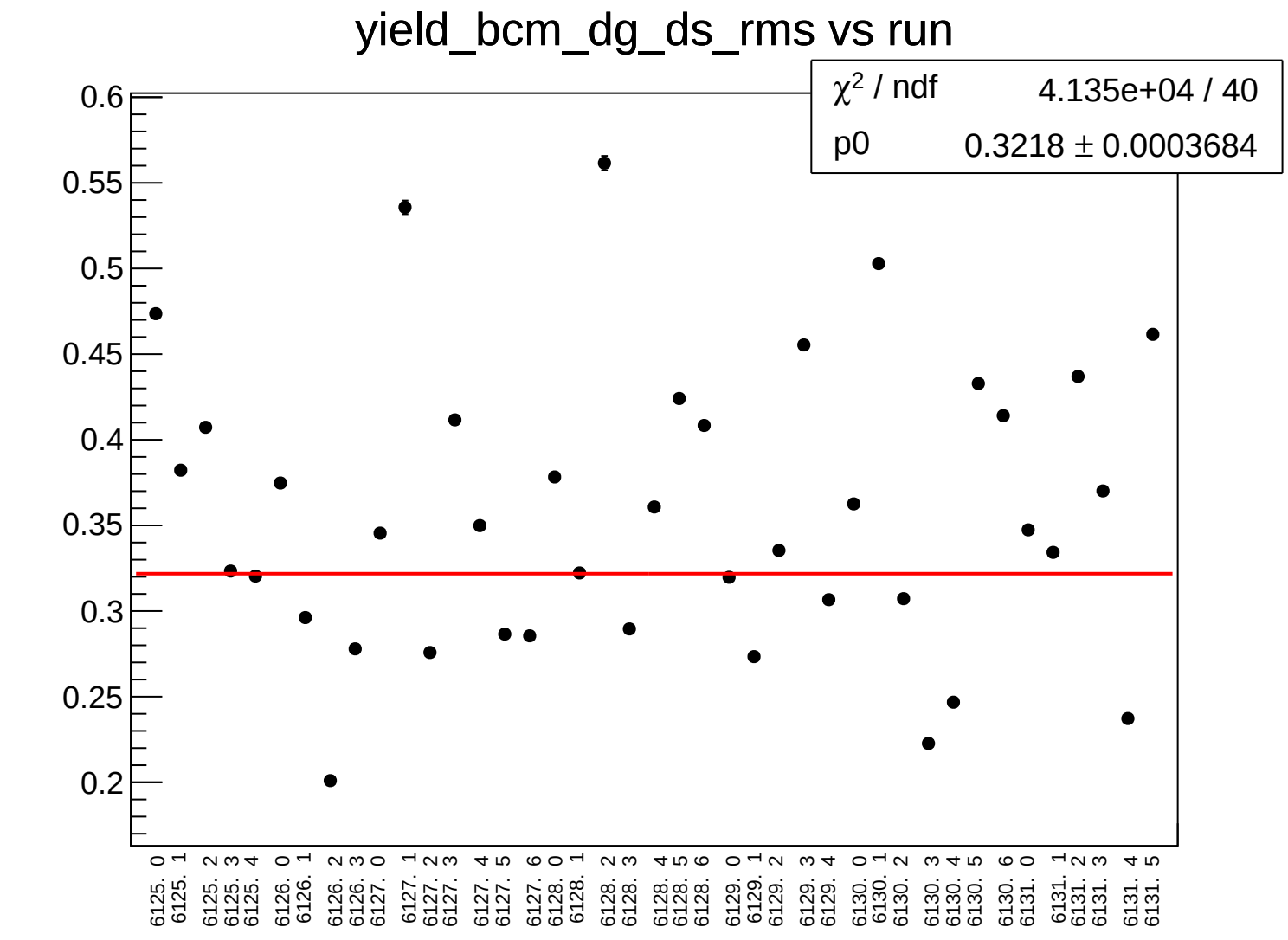

yield_bcm_an_us_rms vs run
χ² / ndf 5.143e+04 / 40
p0 0.294 ± 0.0003388
0.6
0.5
0.4
0.3
0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


yield_bcm_dg_us_mean vs run
χ² / ndf 1.271e+06 / 40
p0 144 ± 0.0005035
145
144.5
144
143.5
143
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −732.7
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 41
Mean −6.607
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 4.133e+04 / 40
p0 0.3109 ± 0.000356
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


yield_bcm_dg_ds_mean vs run
χ² / ndf 1.505e+06 / 40
p0 144 ± 0.0005211
145
144.5
144
143.5
143
142.5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 682.1
Std Dev 0
400
200
0
−200
−400


pull1D
Entries 41
Mean 7.812
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 4.135e+04 / 40
p0 0.3218 ± 0.0003684
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
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6128. 2
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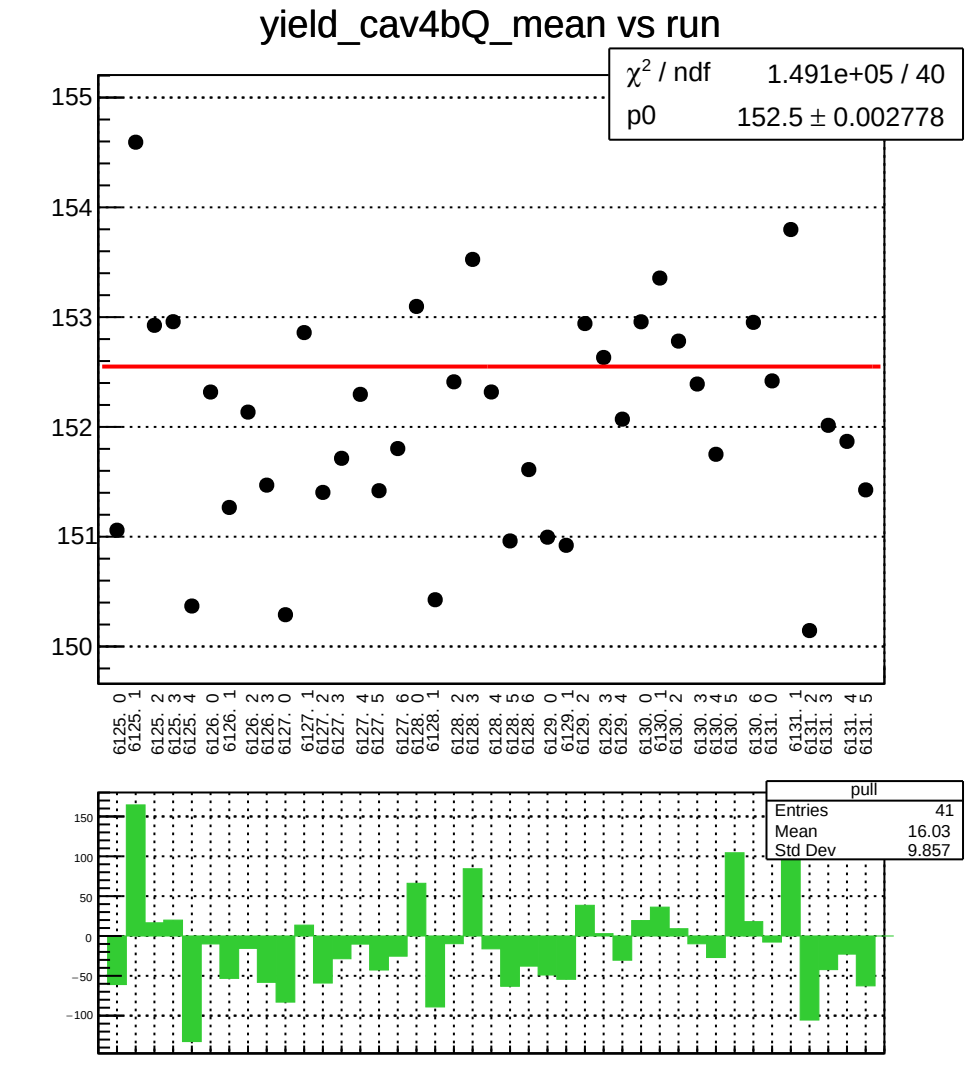
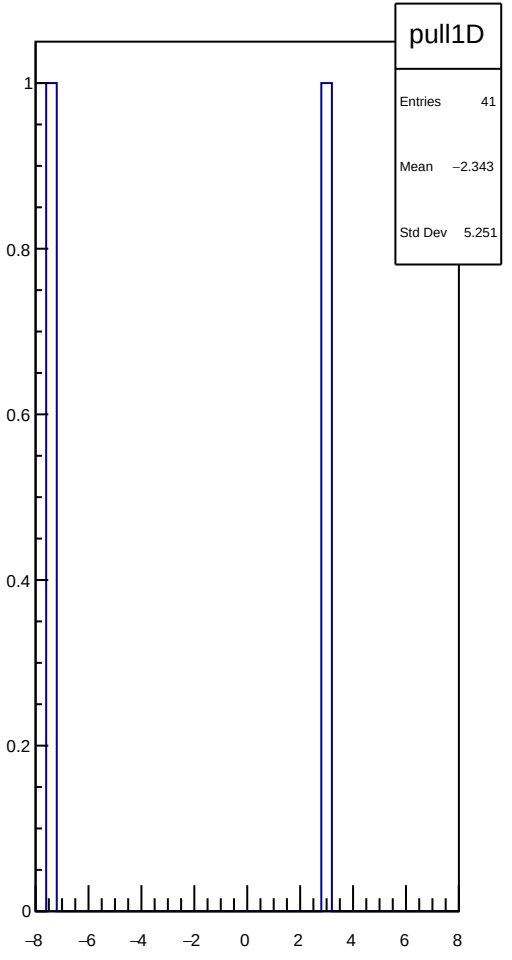
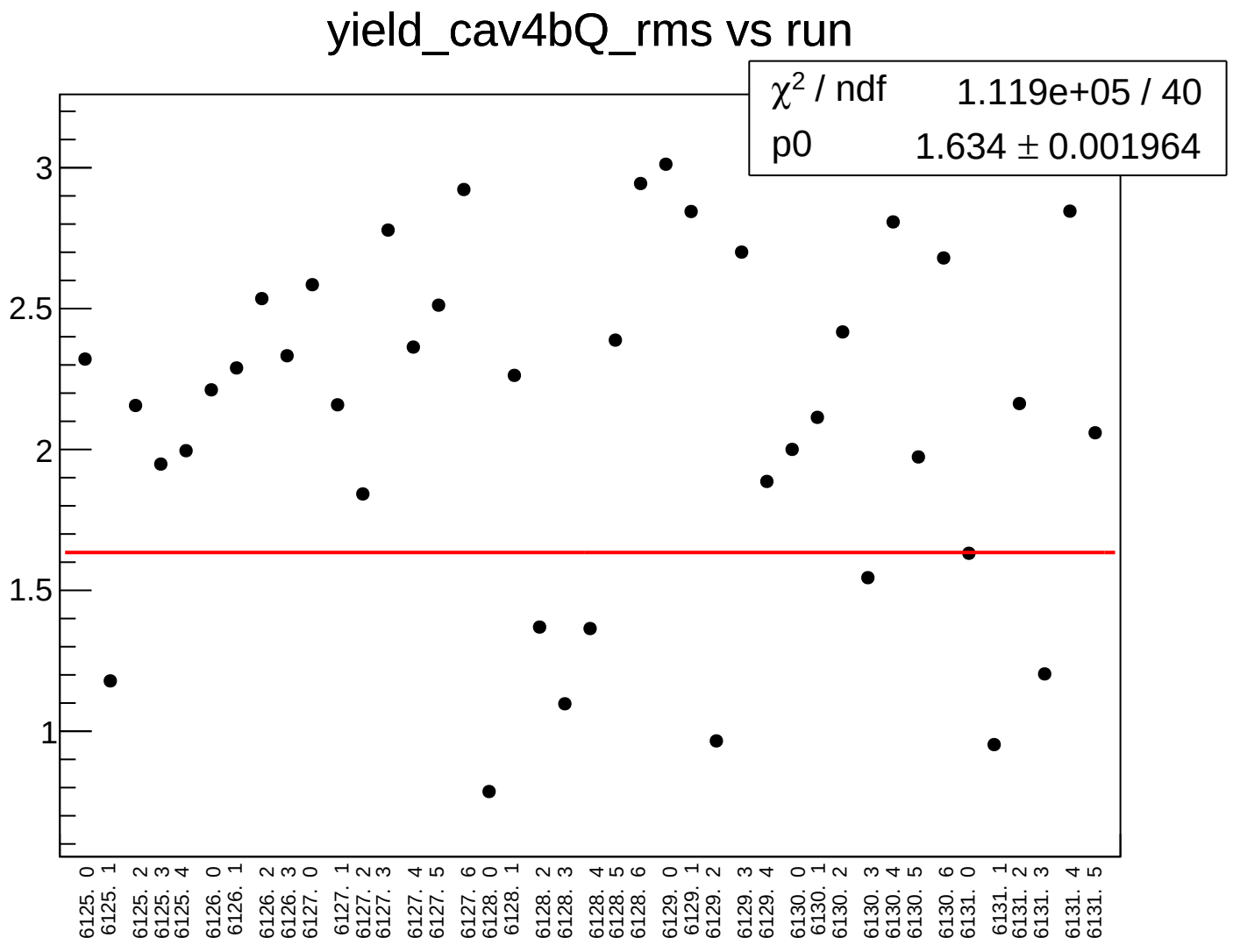
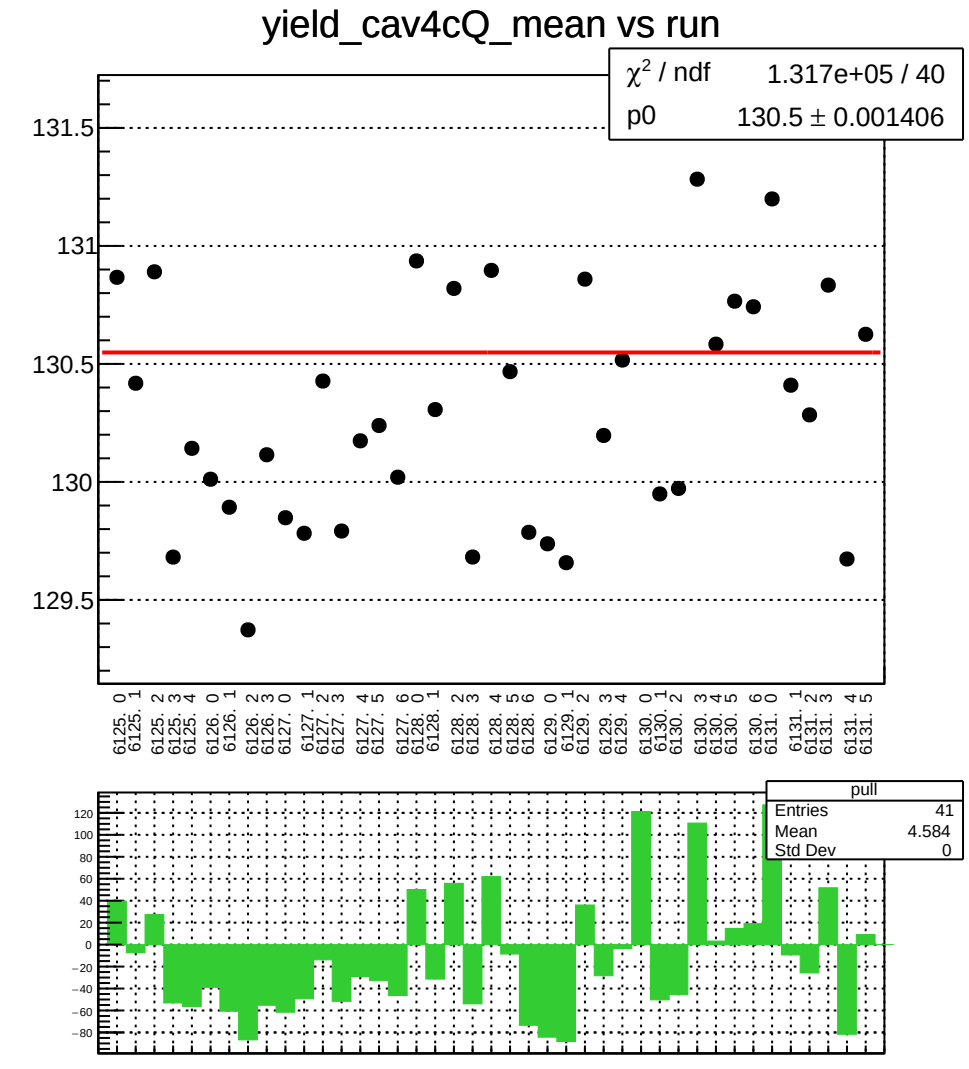
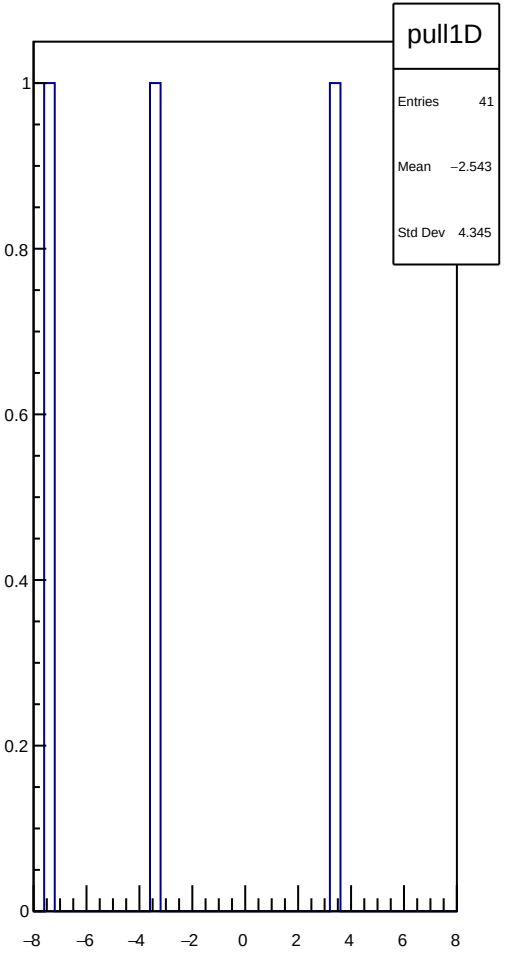
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

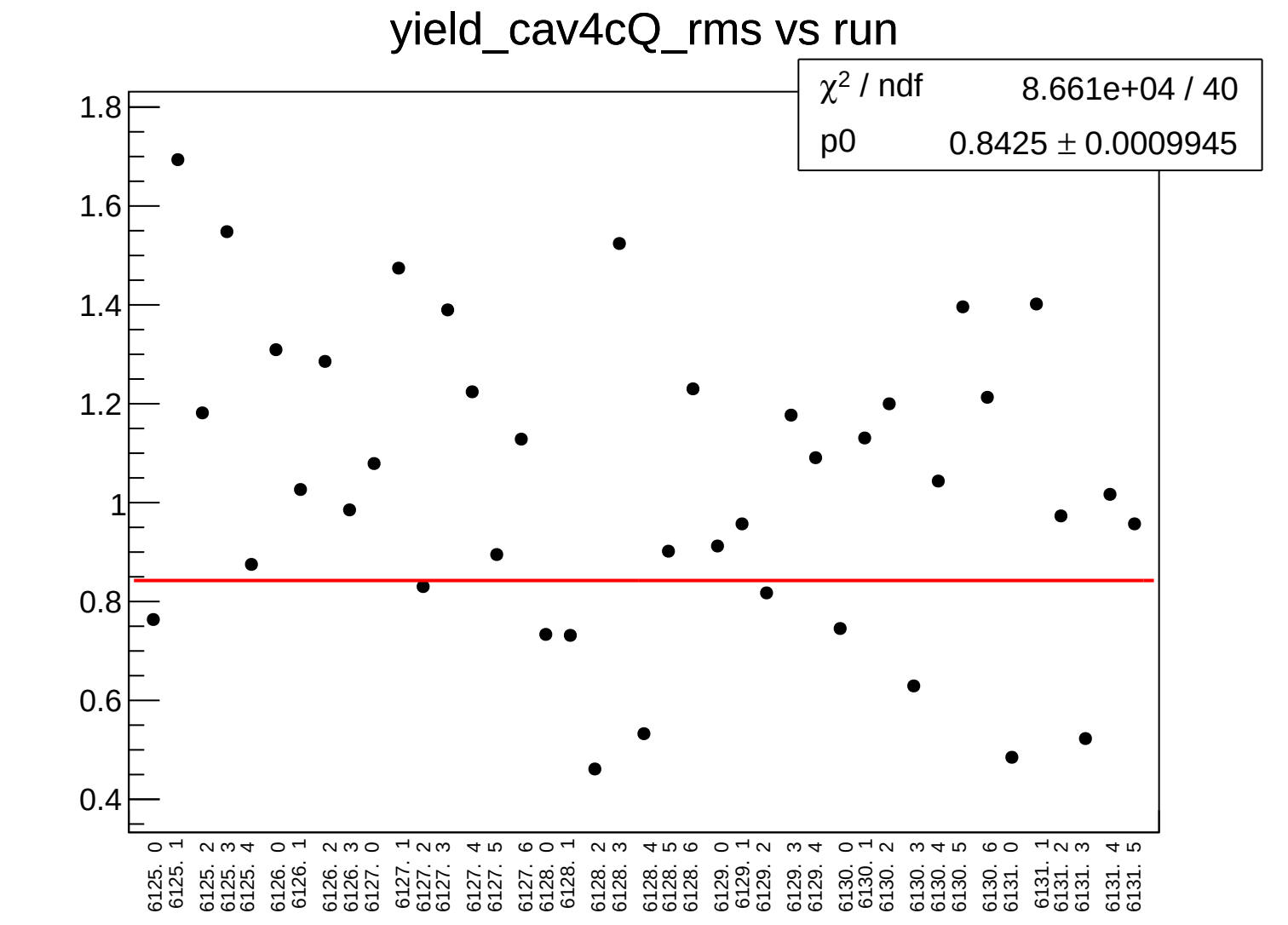

yield_cav4bQ_mean vs run
χ² / ndf 1.491e+05 / 40
p0 152.5 ± 0.002778
155
154
153
152
151
150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 16.03
Std Dev 9.857
150
100
50
0
−50
−100

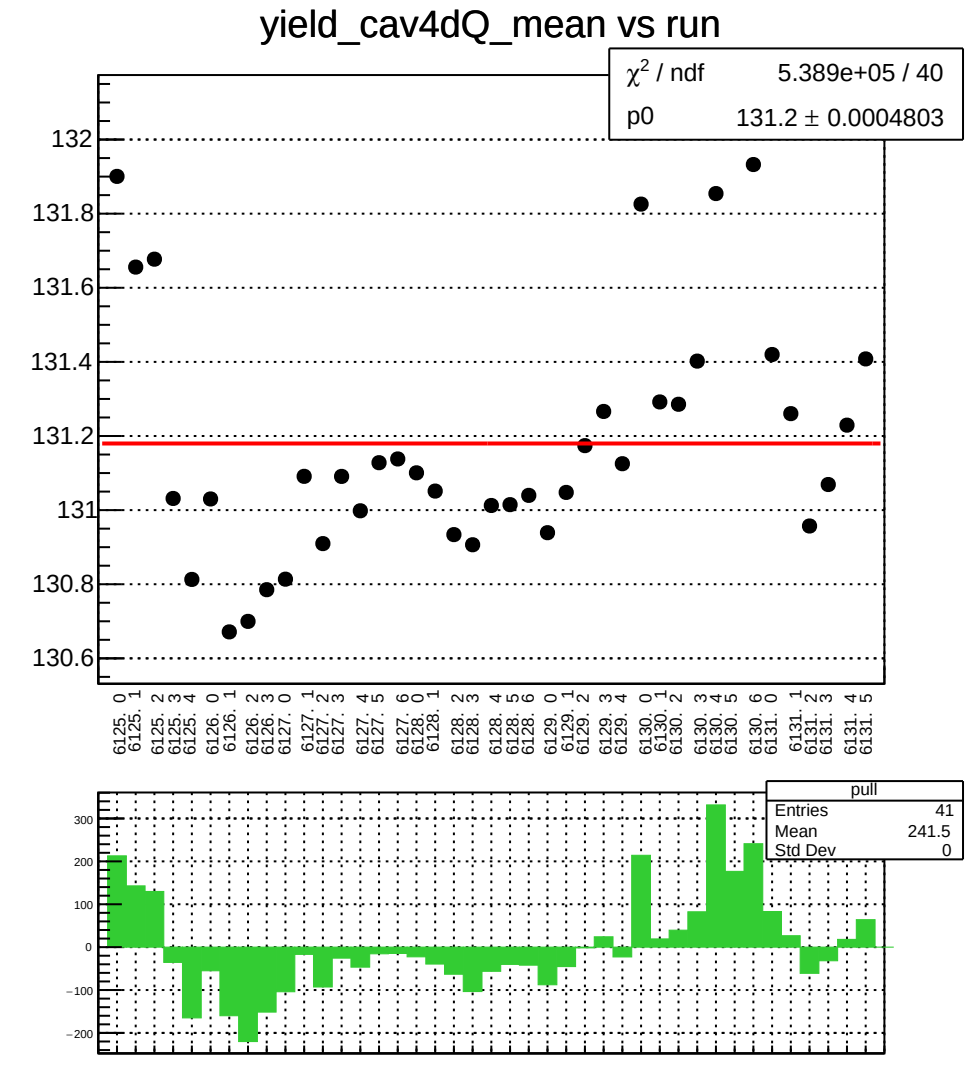

pull1D
Entries 41
Mean −2.343
Std Dev 5.251
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

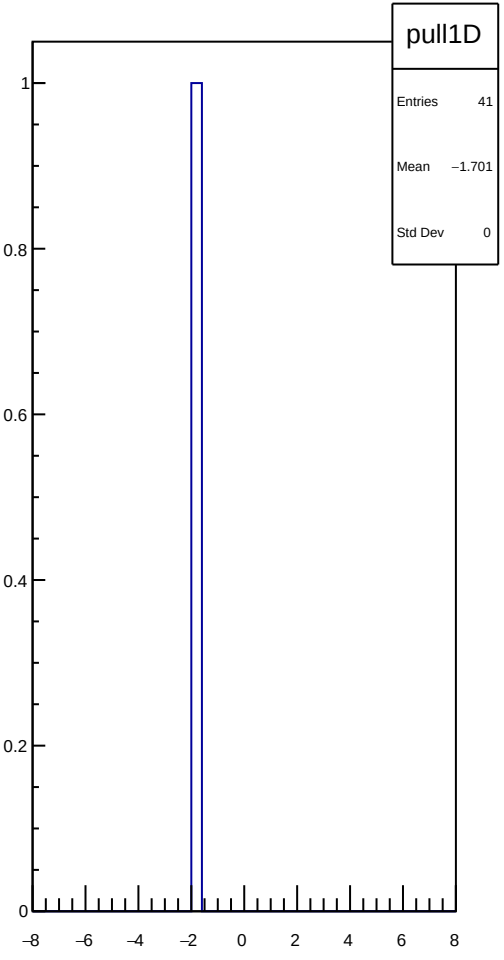

yield_cav4bQ_rms vs run
χ^2 / ndf 1.119e+05 / 40
p0 1.634 ± 0.001964
3
2.5
2
1.5
1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

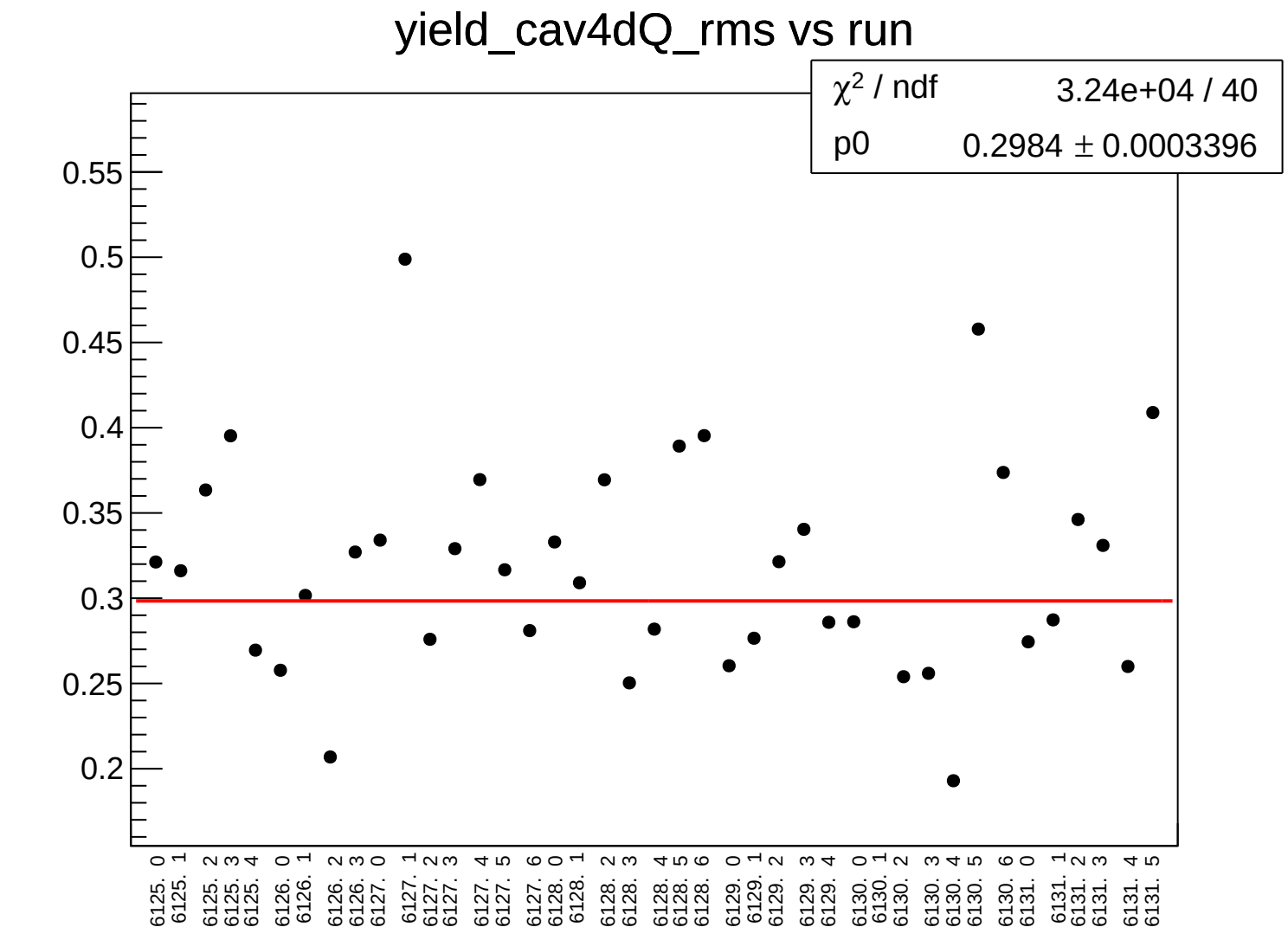

yield_cav4cQ_mean vs run
χ² / ndf 1.317e+05 / 40
p0 130.5 ± 0.001406
131.5
131
130.5
130
129.5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 4.584
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

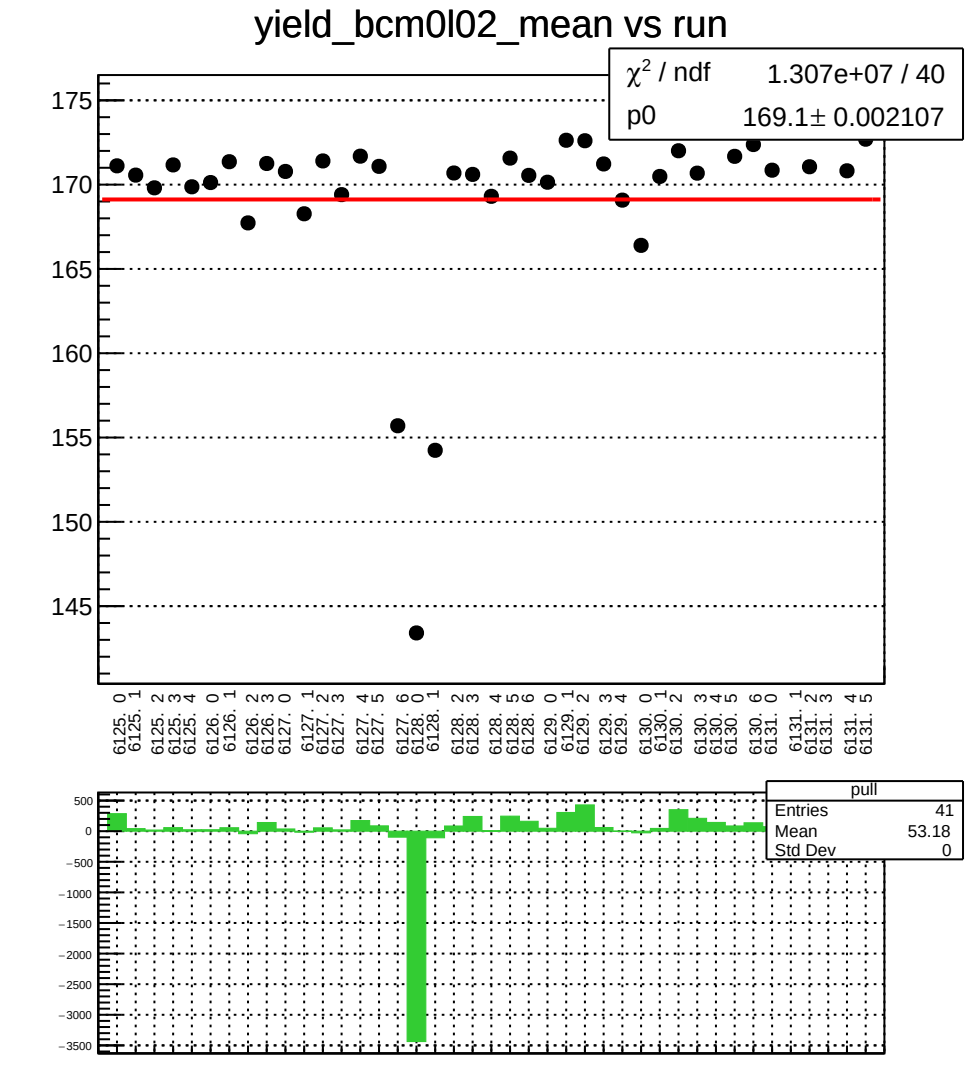

pull1D
Entries 41
Mean −2.543
Std Dev 4.345
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

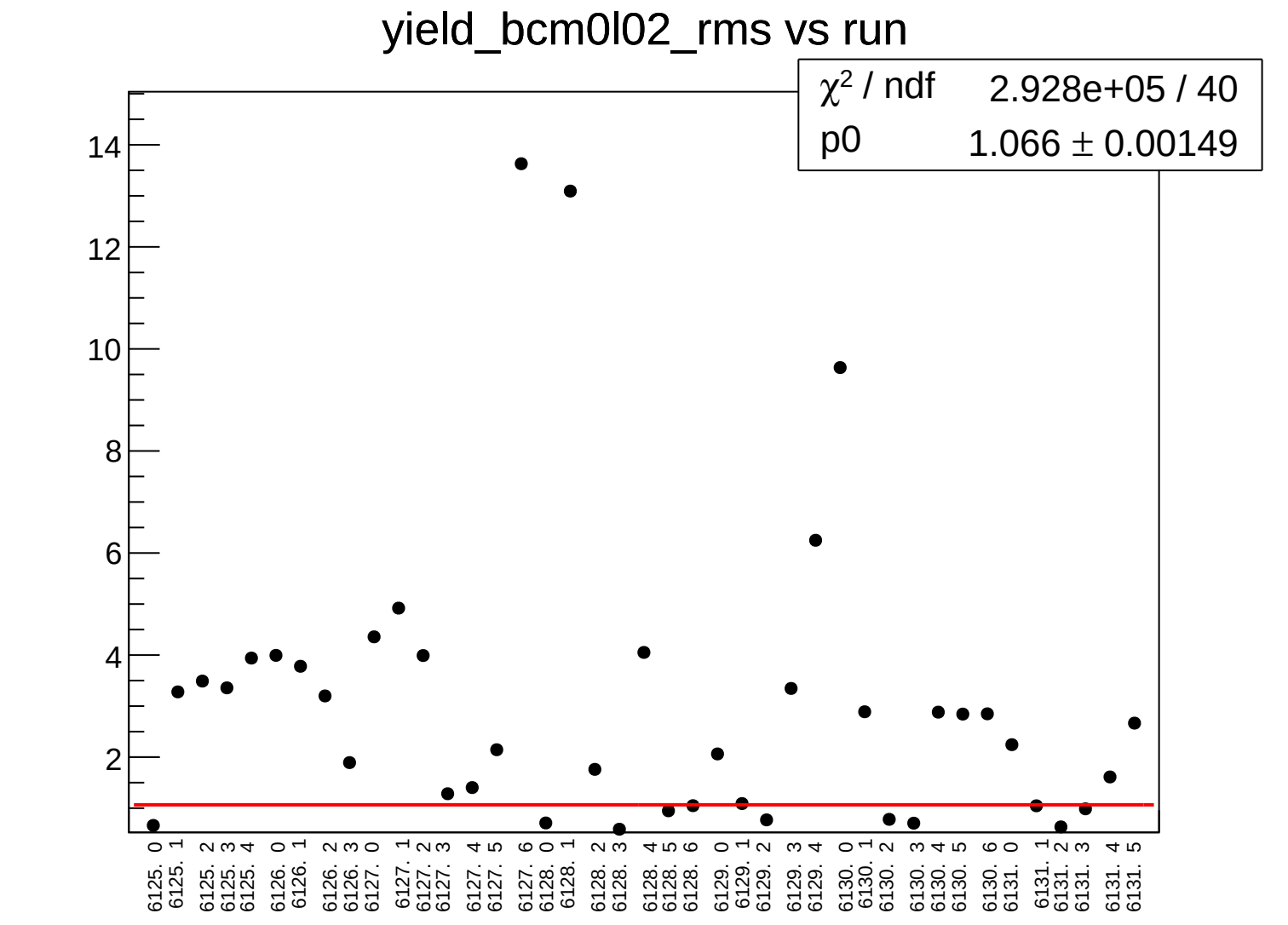

yield_cav4cQ_rms vs run
χ² / ndf 8.661e+04 / 40
p0 0.8425 ± 0.0009945
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

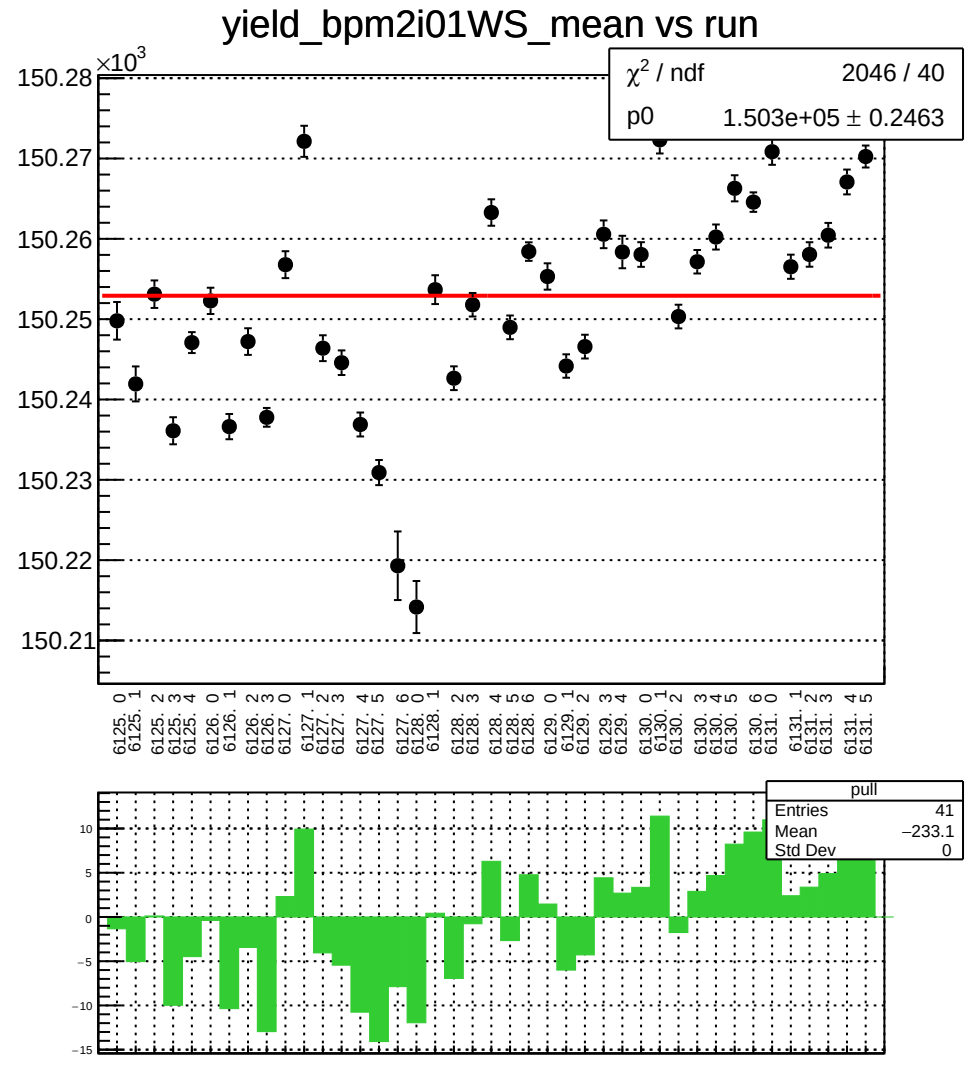

yield_cav4dQ_mean vs run
χ² / ndf 5.389e+05 / 40
p0 131.2 ± 0.0004803
132
131.8
131.6
131.4
131.2
131
130.8
130.6
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 241.5
Std Dev 0
300
200
100
0
−100
−200

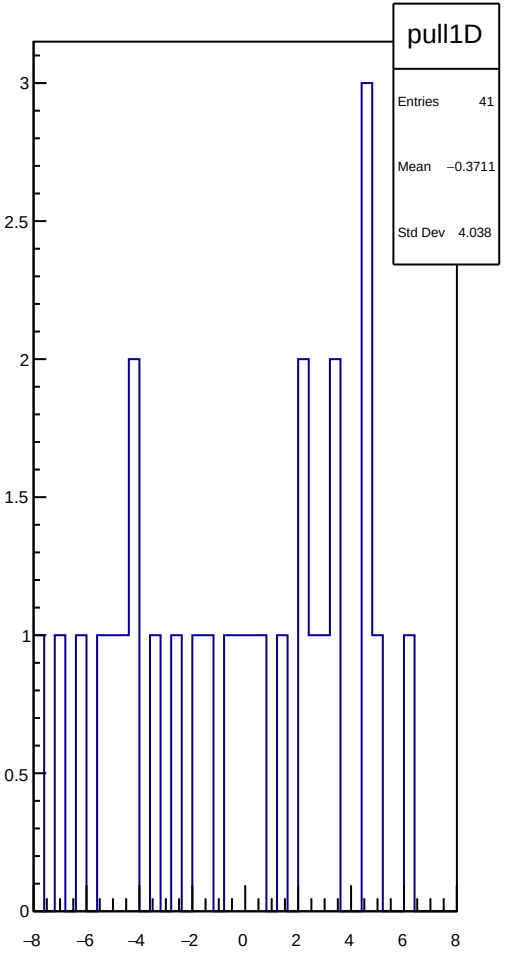

pull1D
Entries 41
Mean −1.701
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

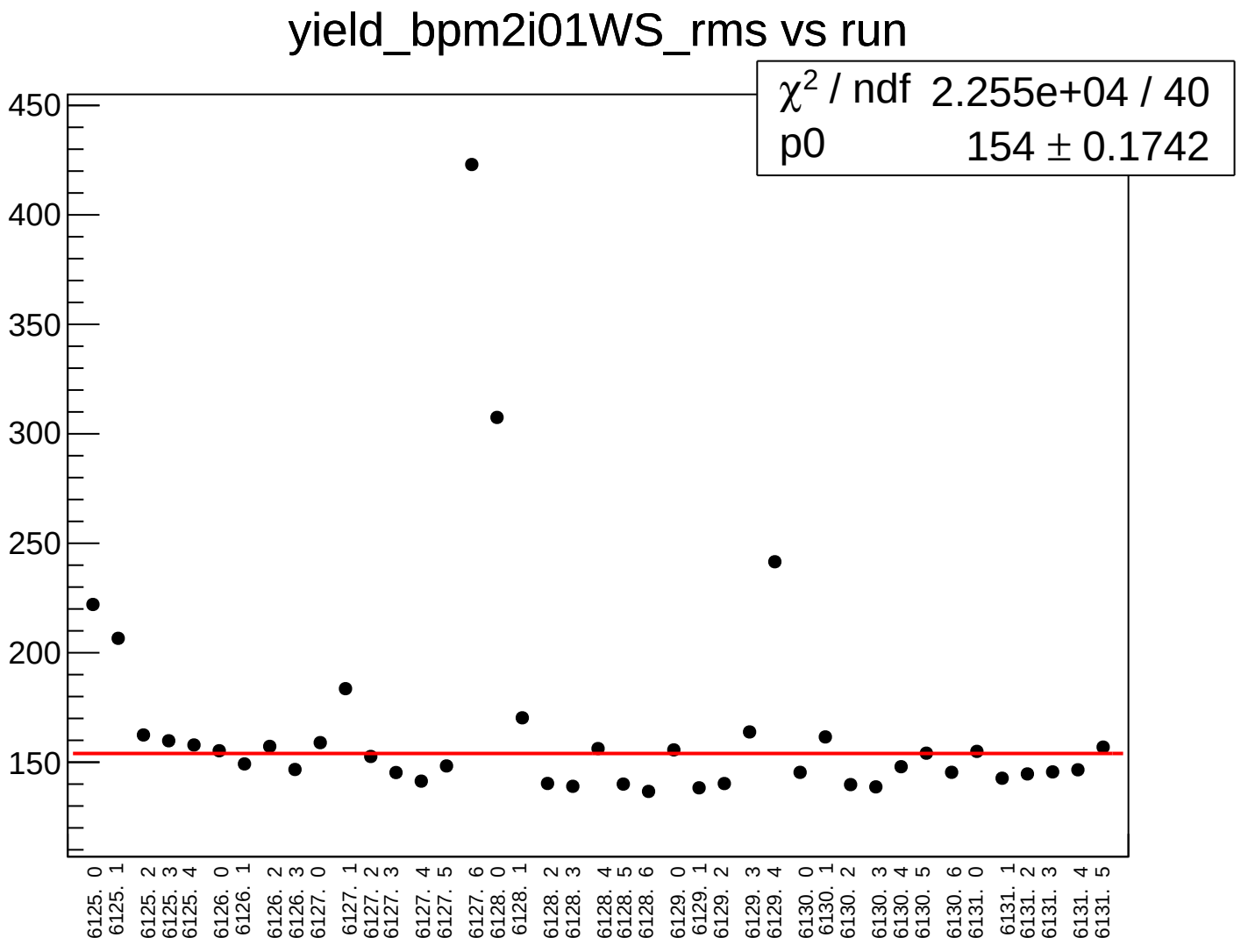

yield_cav4dQ_rms vs run
χ² / ndf 3.24e+04 / 40
p0 0.2984 ± 0.0003396
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

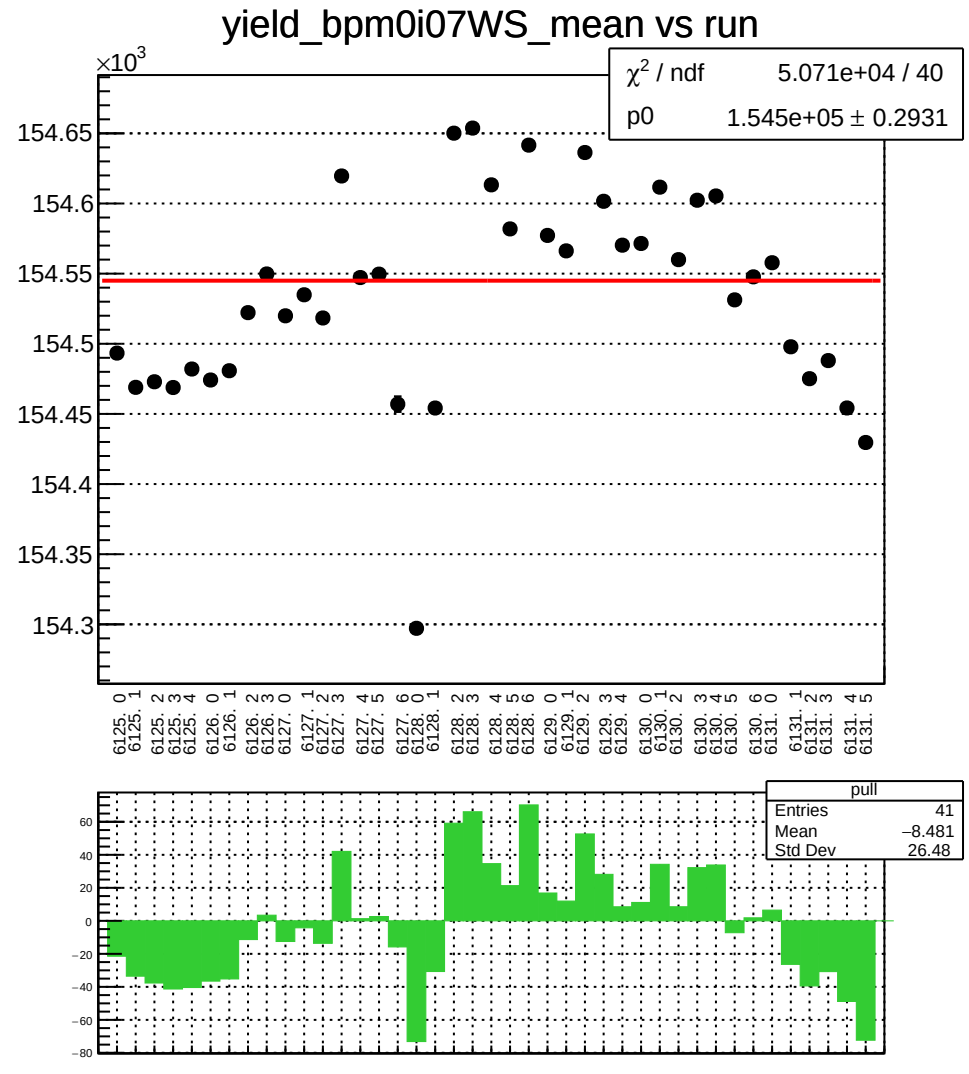

yield_bcm0l02_mean vs run
χ² / ndf 1.307e+07 / 40
p0 169.1± 0.002107
175
170
165
160
155
150
145
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 53.18
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500
−3000
−3500
pull1D
Entries 41
Mean 1.822
Std Dev 2.562
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

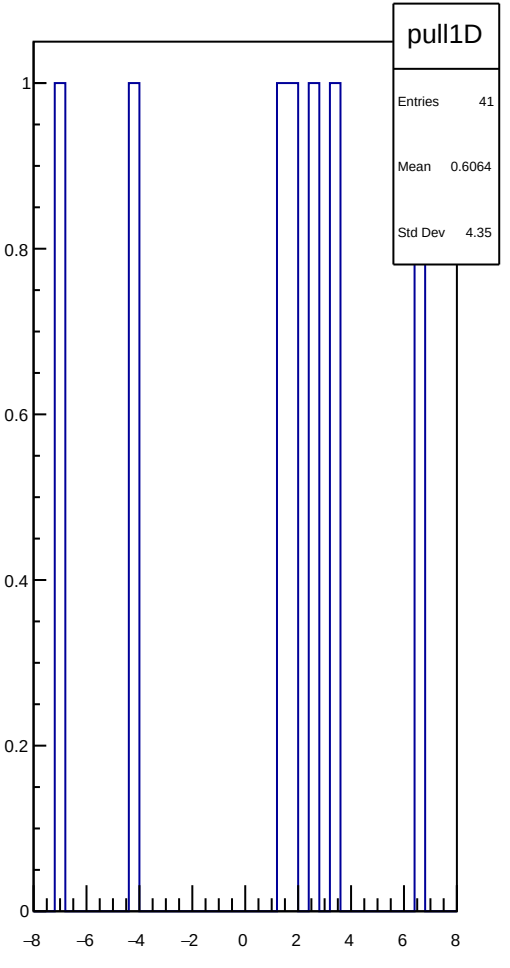

yield_bcm0l02_rms vs run
χ² / ndf 2.928e+05 / 40
p0 1.066 ± 0.00149
14
12
10
8
6
4
2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

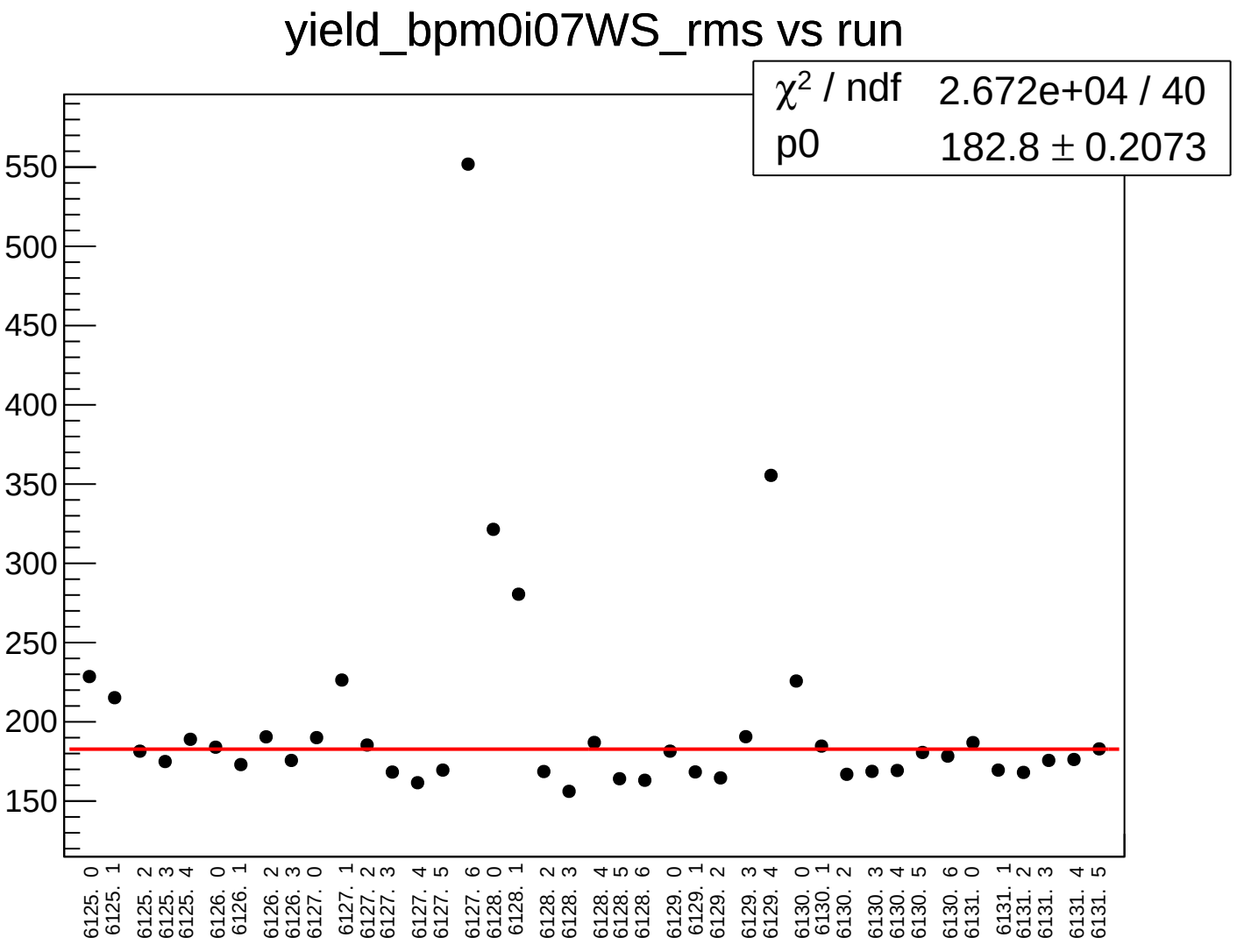

yield_bpm2i01WS_mean vs run
×10^3
150.28
150.27
150.26
150.25
150.24
150.23
150.22
150.21
χ² / ndf 2046 / 40
p0 1.503e+05 ± 0.2463
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −233.1
Std Dev 0
10
5
0
−5
−10
−15

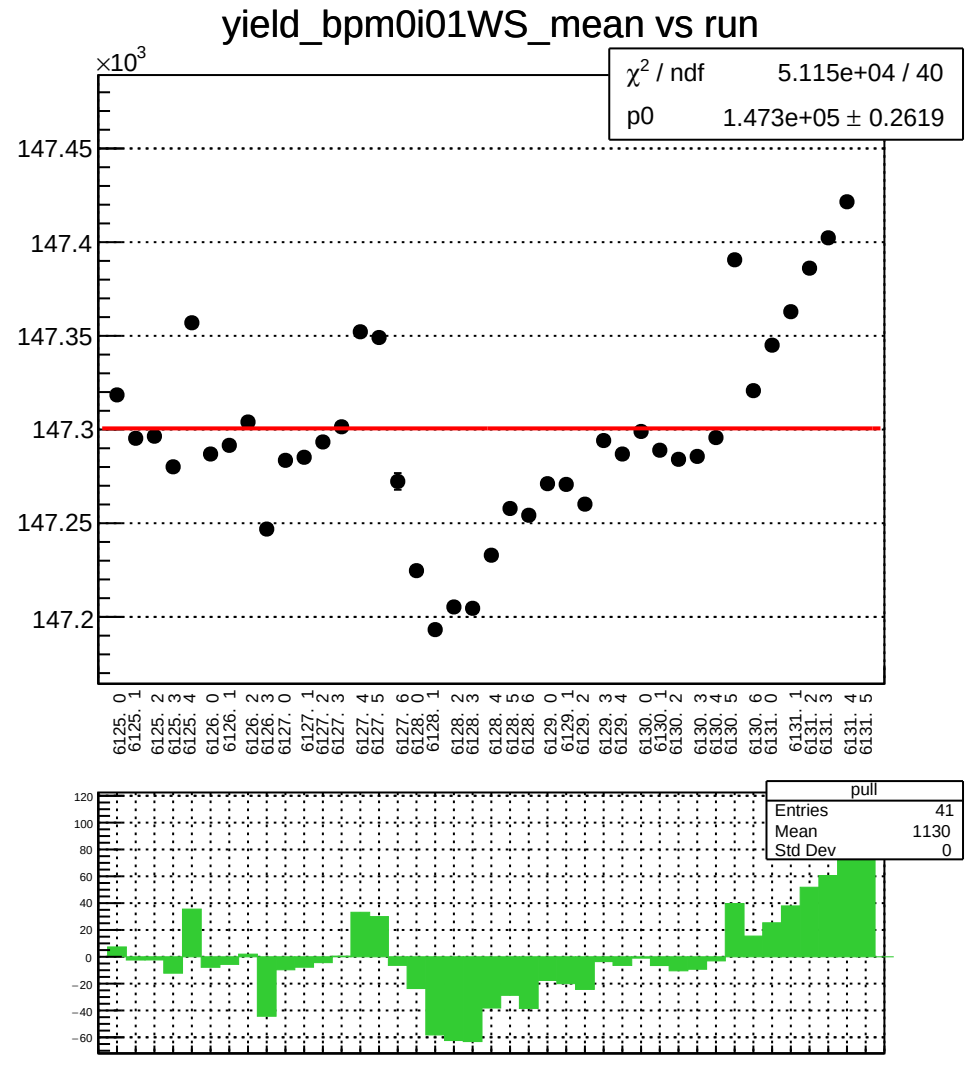

pull1D
Entries 41
Mean −0.3711
Std Dev 4.038
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

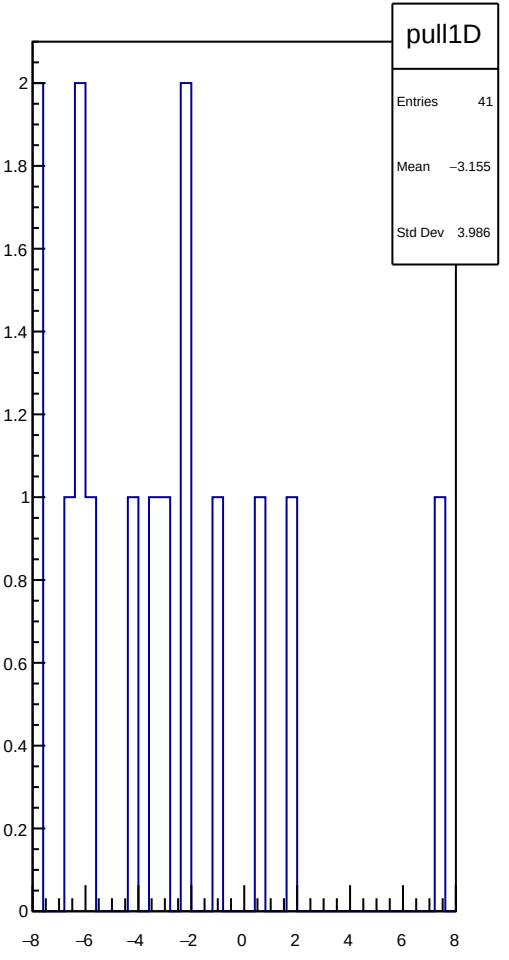

yield_bpm2i01WS_rms vs run
χ² / ndf 2.255e+04 / 40
p0 154 ± 0.1742
450
400
350
300
250
200
150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

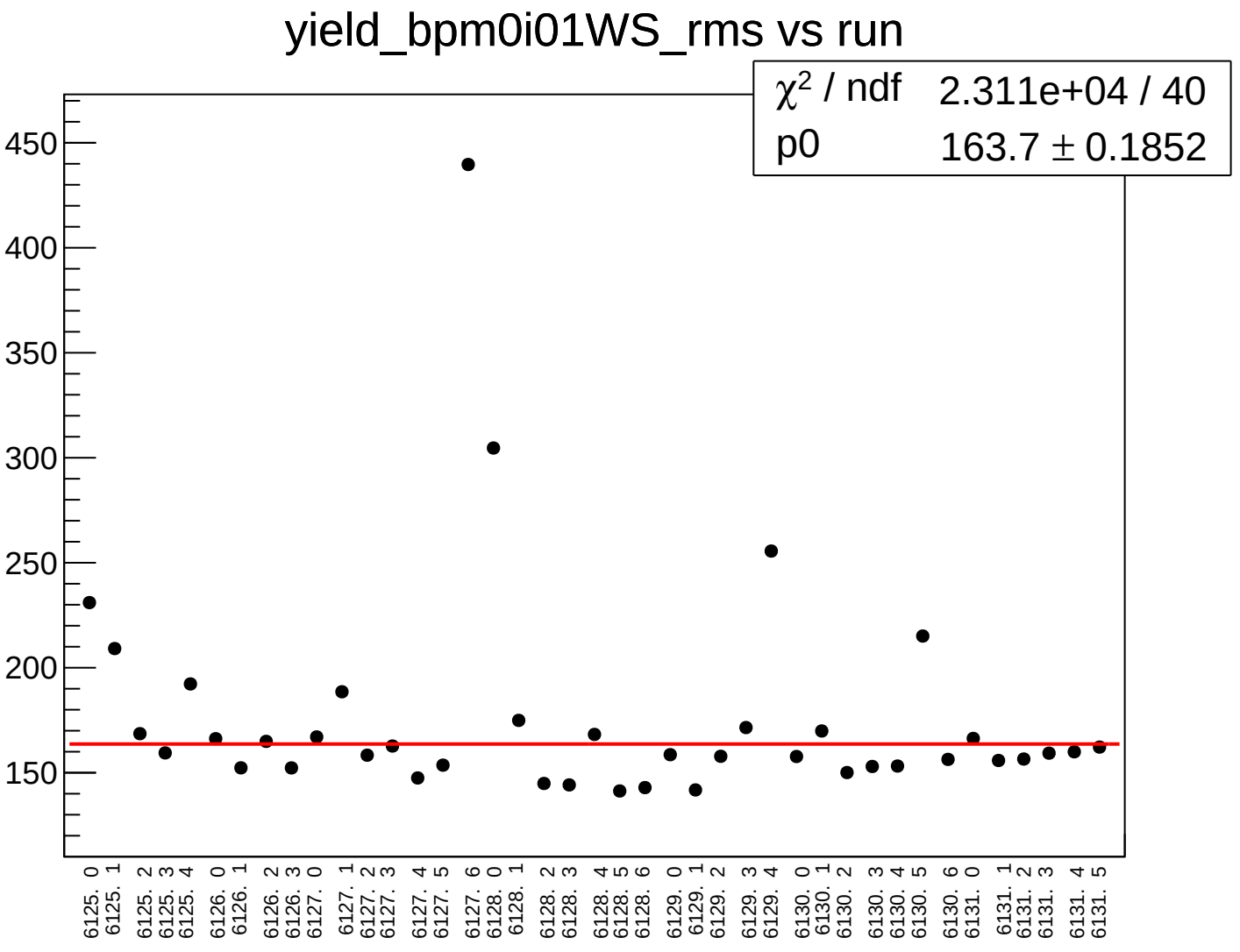

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 5.071e+04 / 40
p0 1.545e+05 ± 0.2931
154.65
154.6
154.55
154.5
154.45
154.4
154.35
154.3
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −8.481
Std Dev 26.48
60
40
20
0
−20
−40
−60
−80

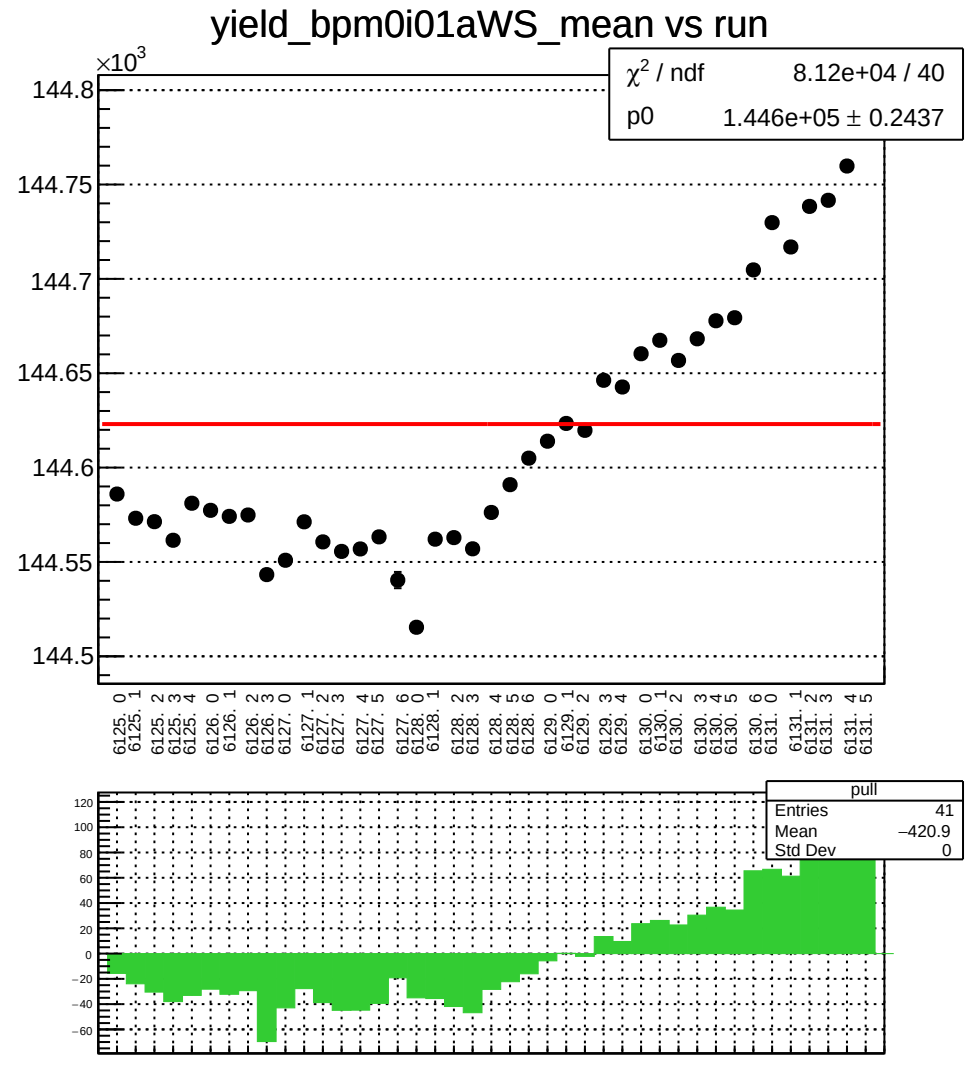

pull1D
Entries 41
Mean 0.6064
Std Dev 4.35
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

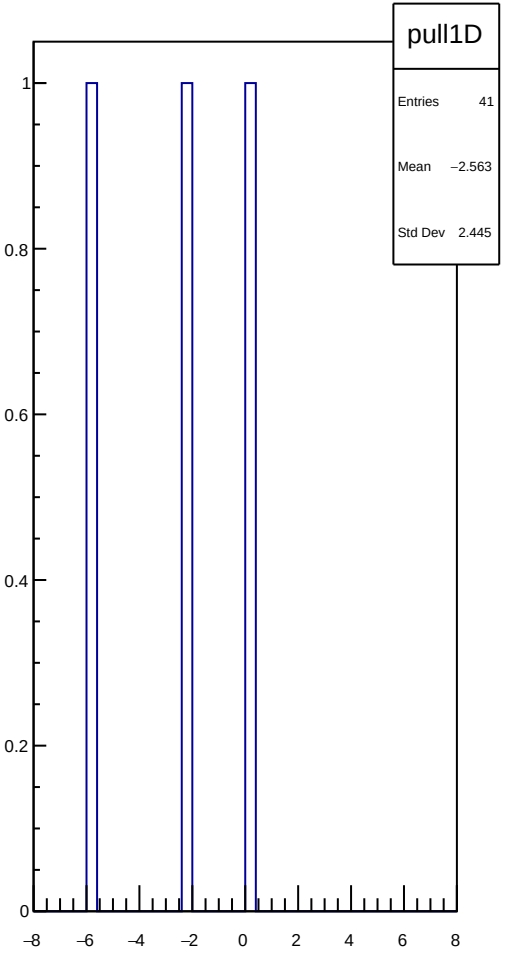

yield_bpm0i07WS_rms vs run
χ² / ndf 2.672e+04 / 40
p0 182.8 ± 0.2073
550
500
450
400
350
300
250
200
150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

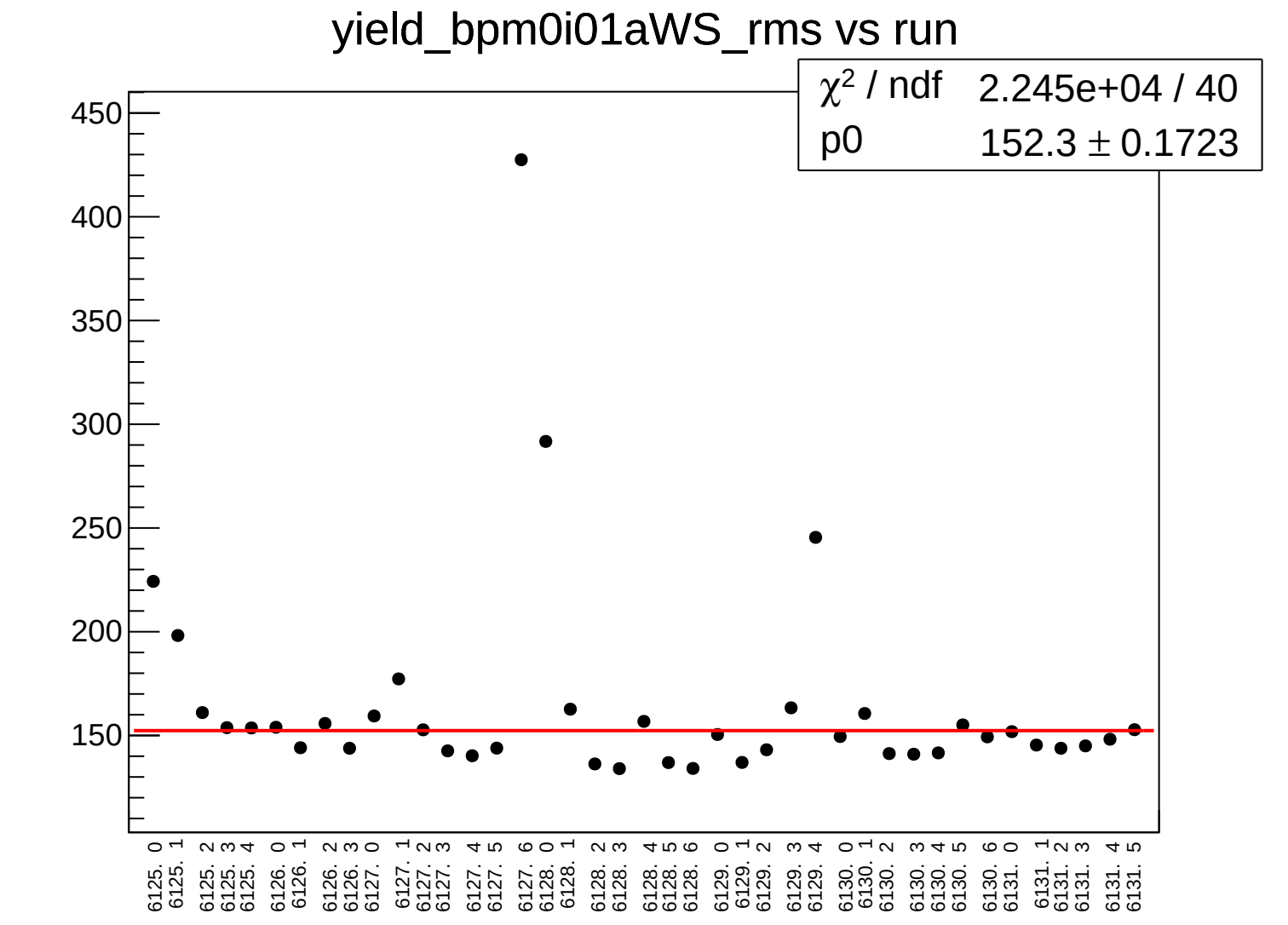

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 5.115e+04 / 40
p0 1.473e+05 ± 0.2619
147.45
147.4
147.35
147.3
147.25
147.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1130
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60

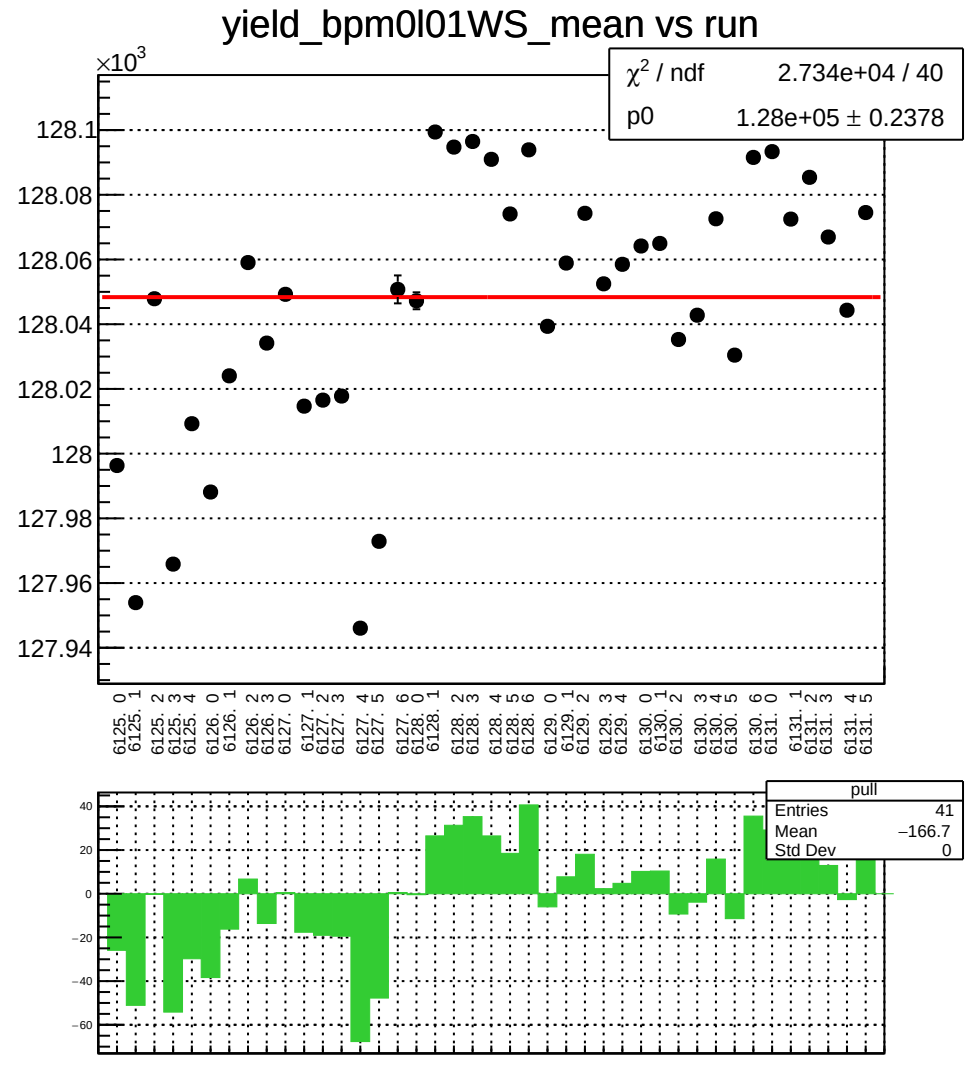

pull1D
Entries 41
Mean −3.155
Std Dev 3.986
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

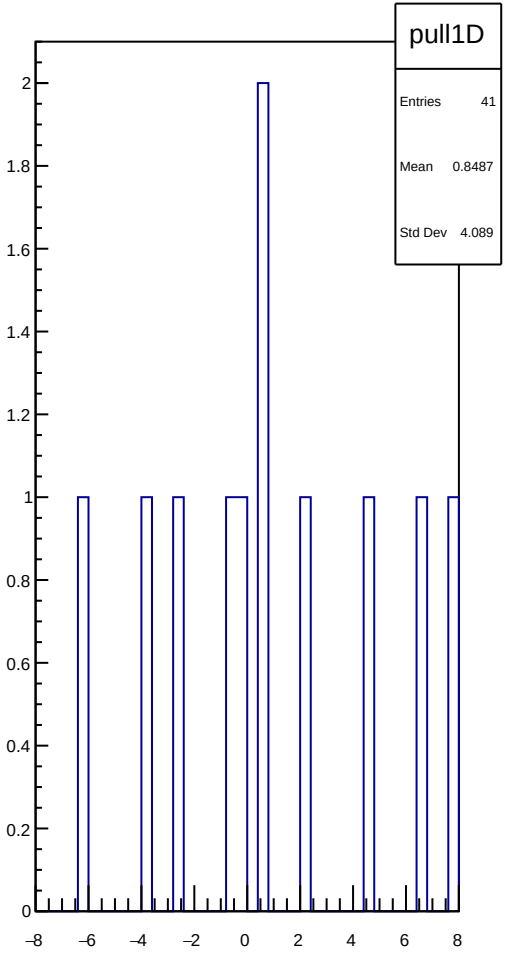

yield_bpm0i01WS_rms vs run
χ² / ndf 2.311e+04 / 40
p0 163.7 ± 0.1852
450
400
350
300
250
200
150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

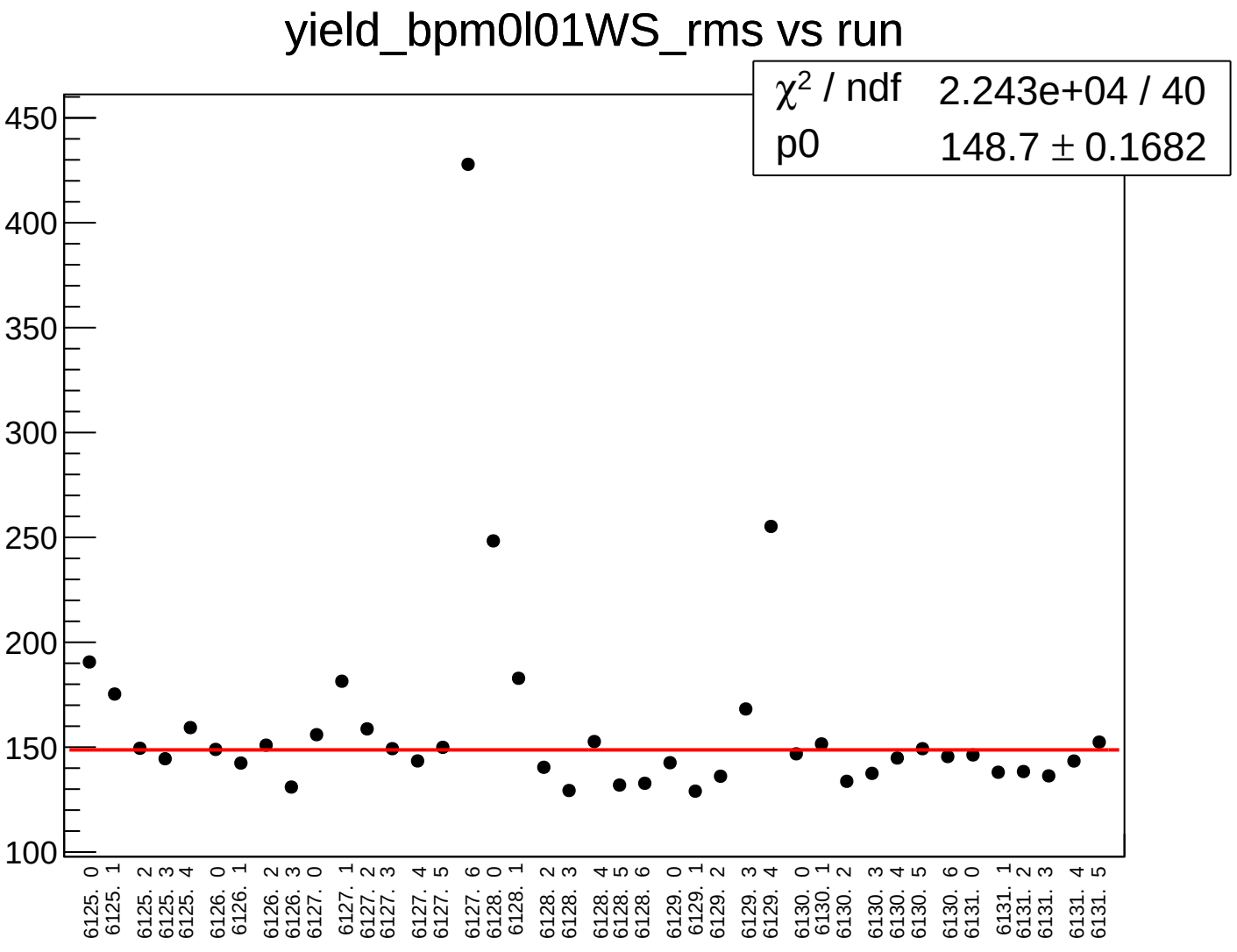

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 8.12e+04 / 40
p0 1.446e+05 ± 0.2437
144.8
144.75
144.7
144.65
144.6
144.55
144.5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −420.9
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60

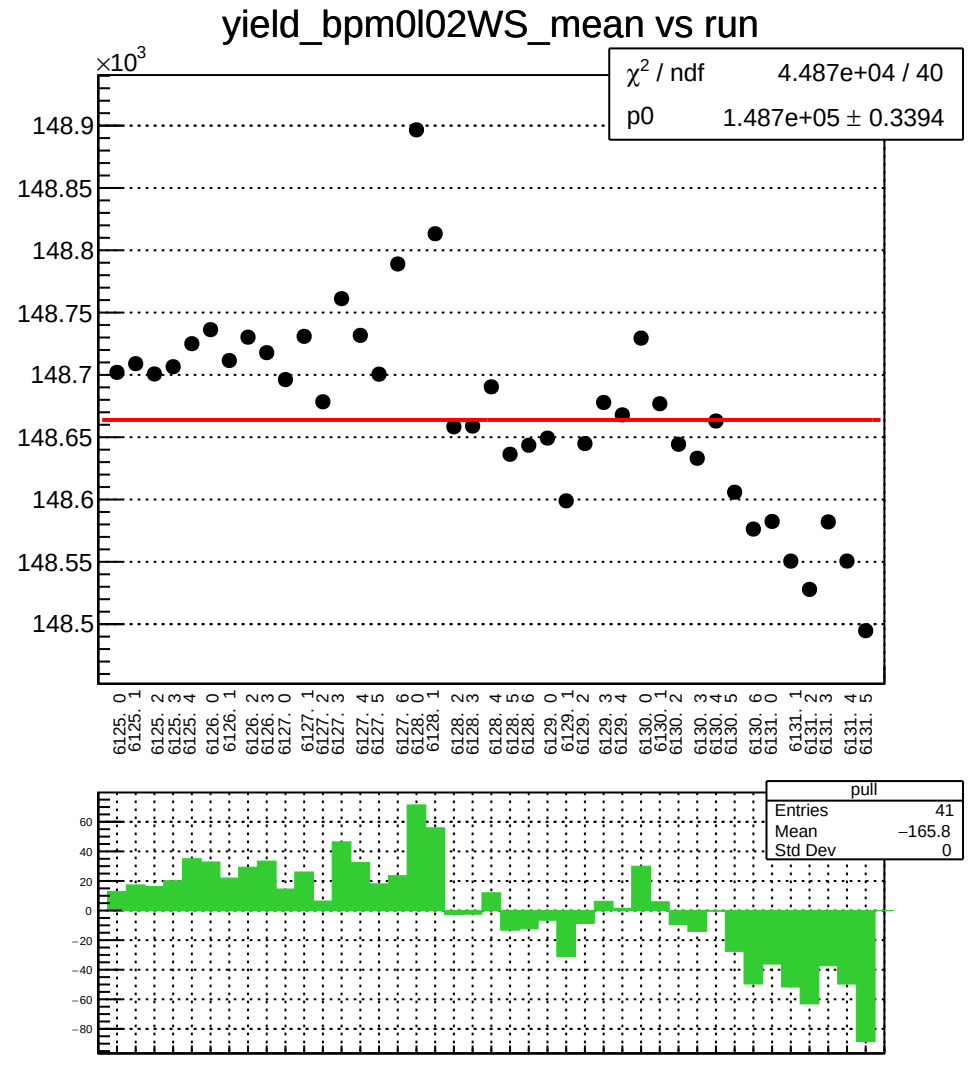

pull1D
Entries 41
Mean −2.563
Std Dev 2.445
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

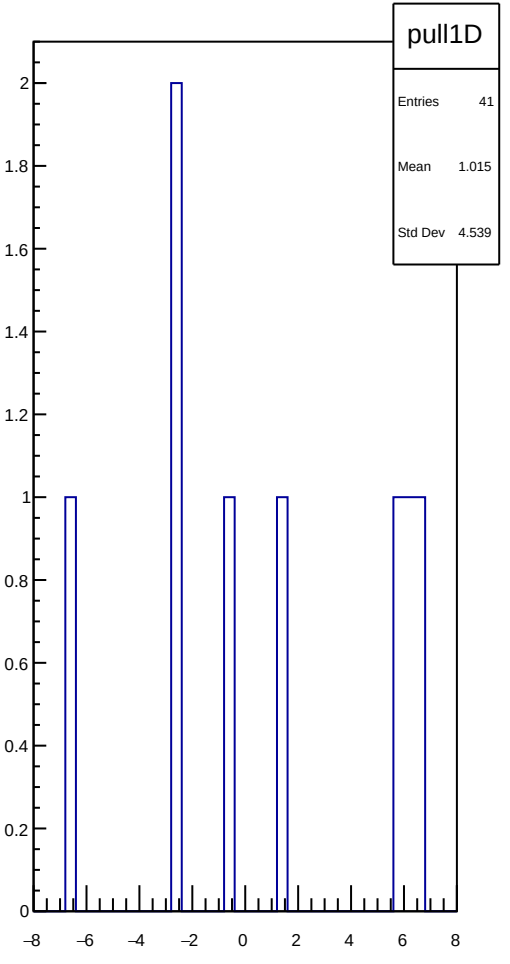

yield_bpm0i01aWS_rms vs run
χ² / ndf 2.245e+04 / 40
p0 152.3 ± 0.1723
450
400
350
300
250
200
150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

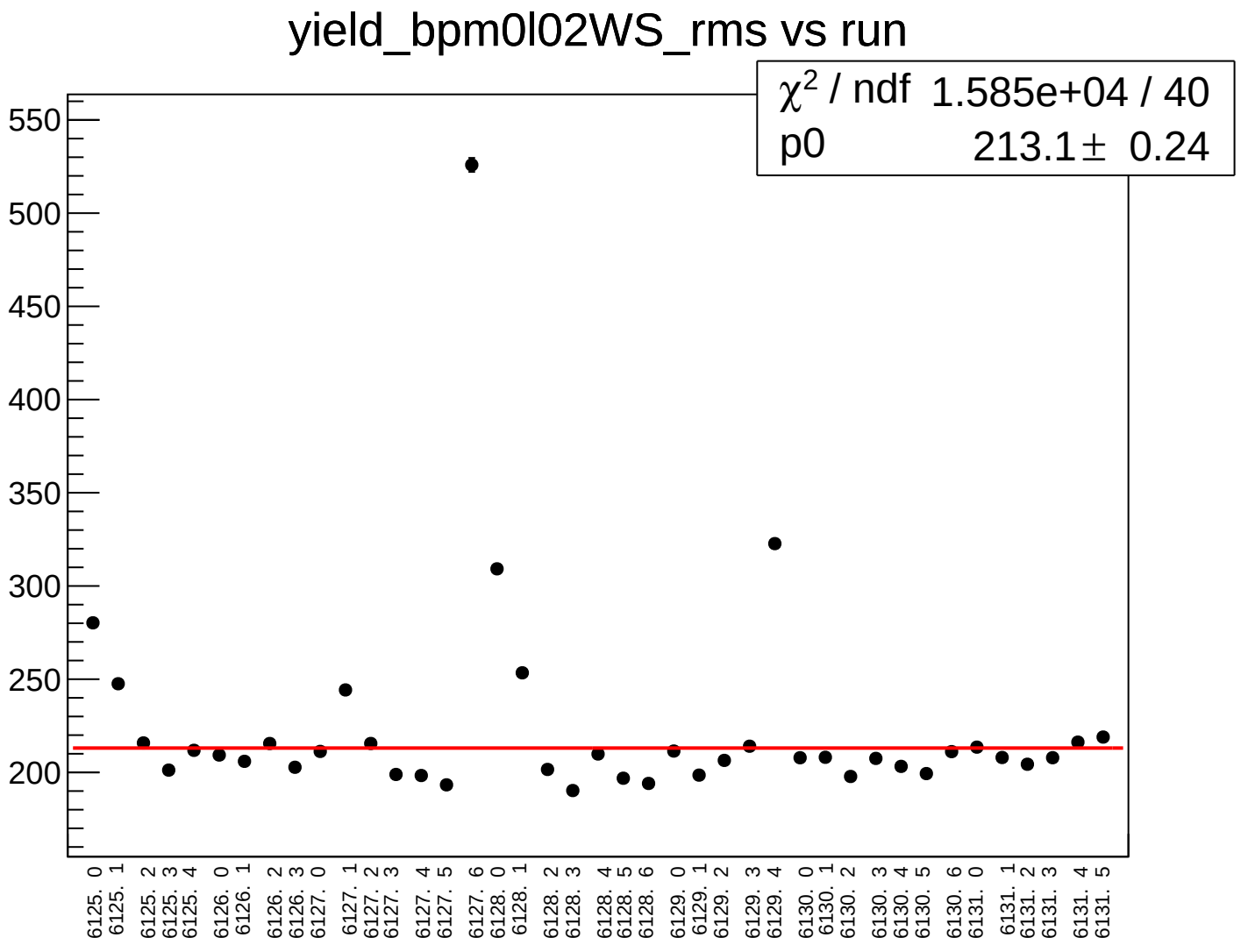

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.734e+04 / 40
p0 1.28e+05 ± 0.2378
128.1
128.08
128.06
128.04
128.02
128
127.98
127.96
127.94
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −166.7
Std Dev 0
40
20
0
−20
−40
−60

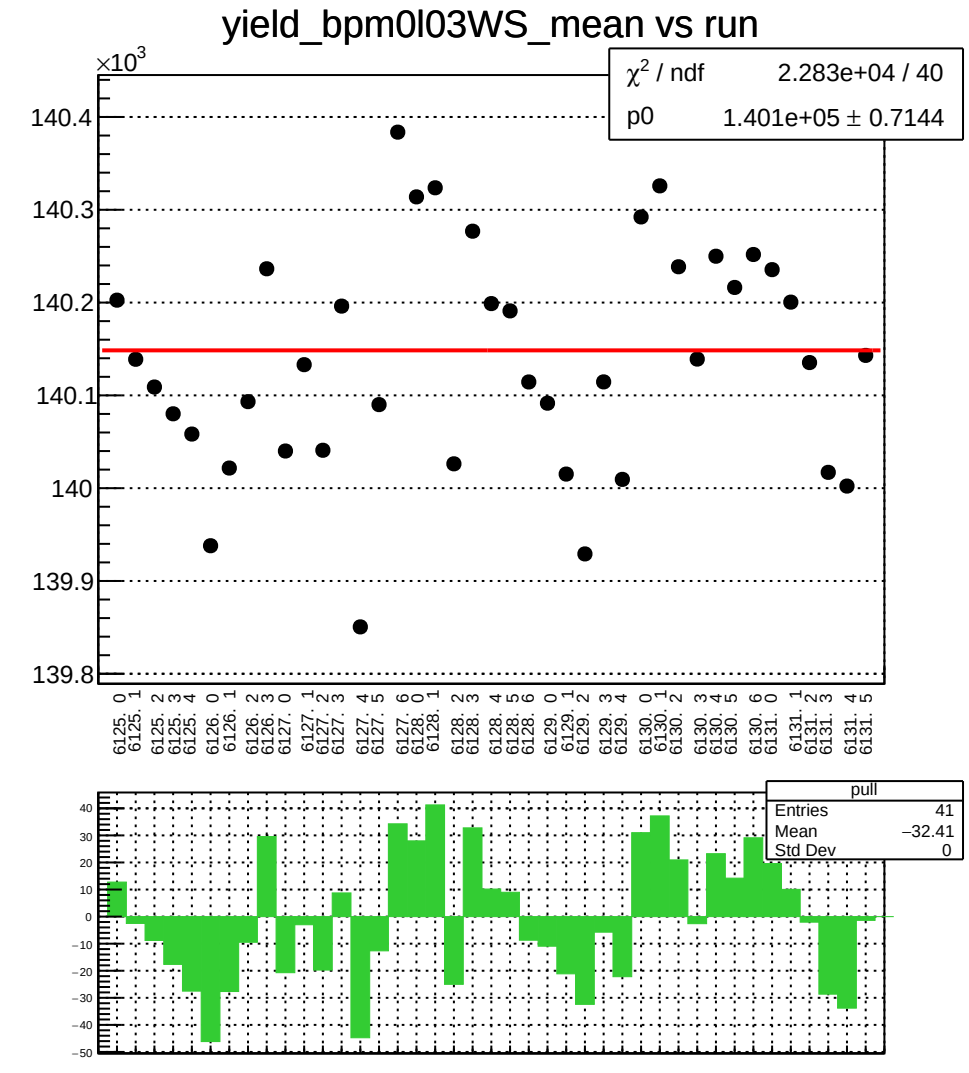

pull1D
Entries 41
Mean 0.8487
Std Dev 4.089
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

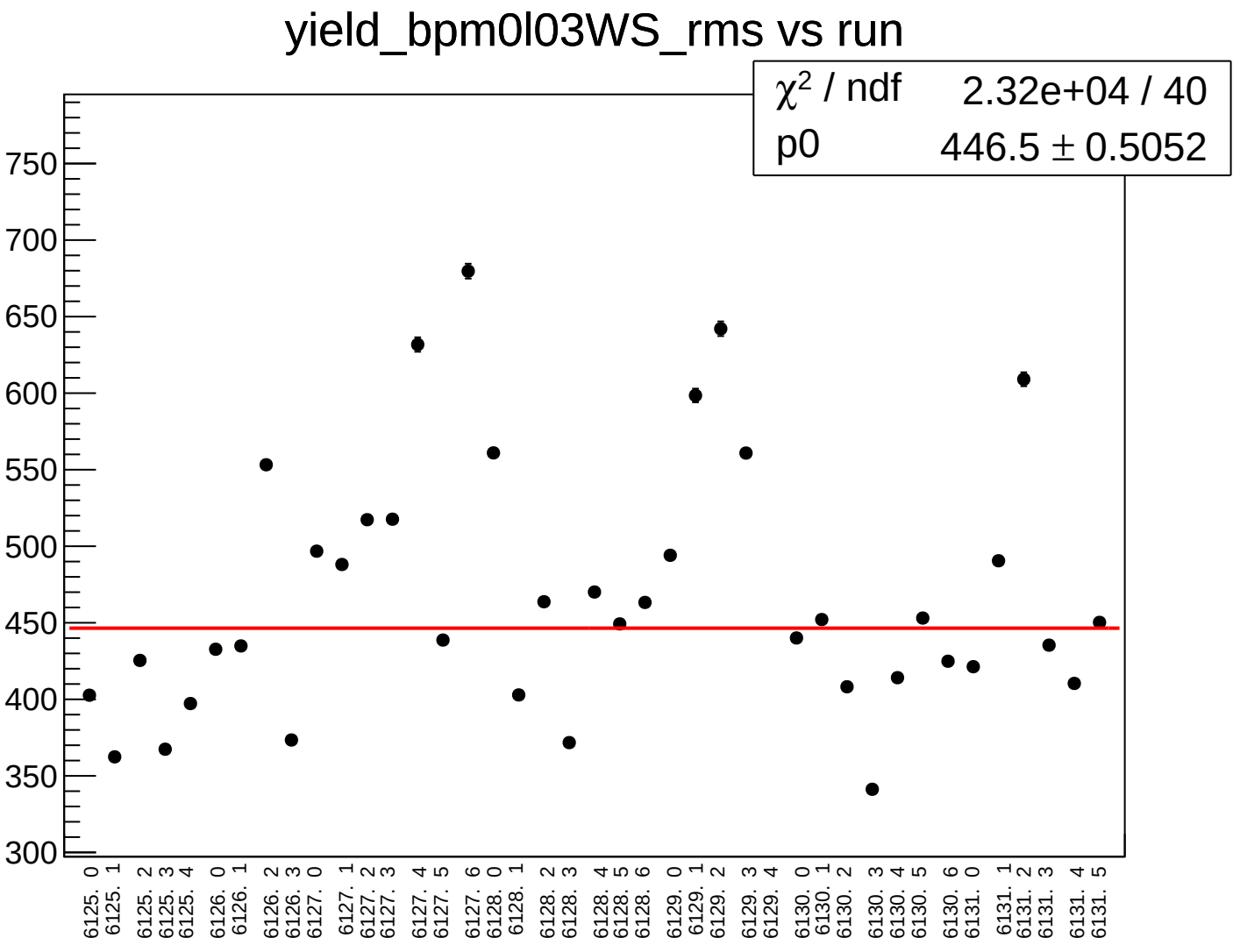

yield_bpm0l01WS_rms vs run
χ² / ndf 2.243e+04 / 40
p0 148.7 ± 0.1682
450
400
350
300
250
200
150
100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

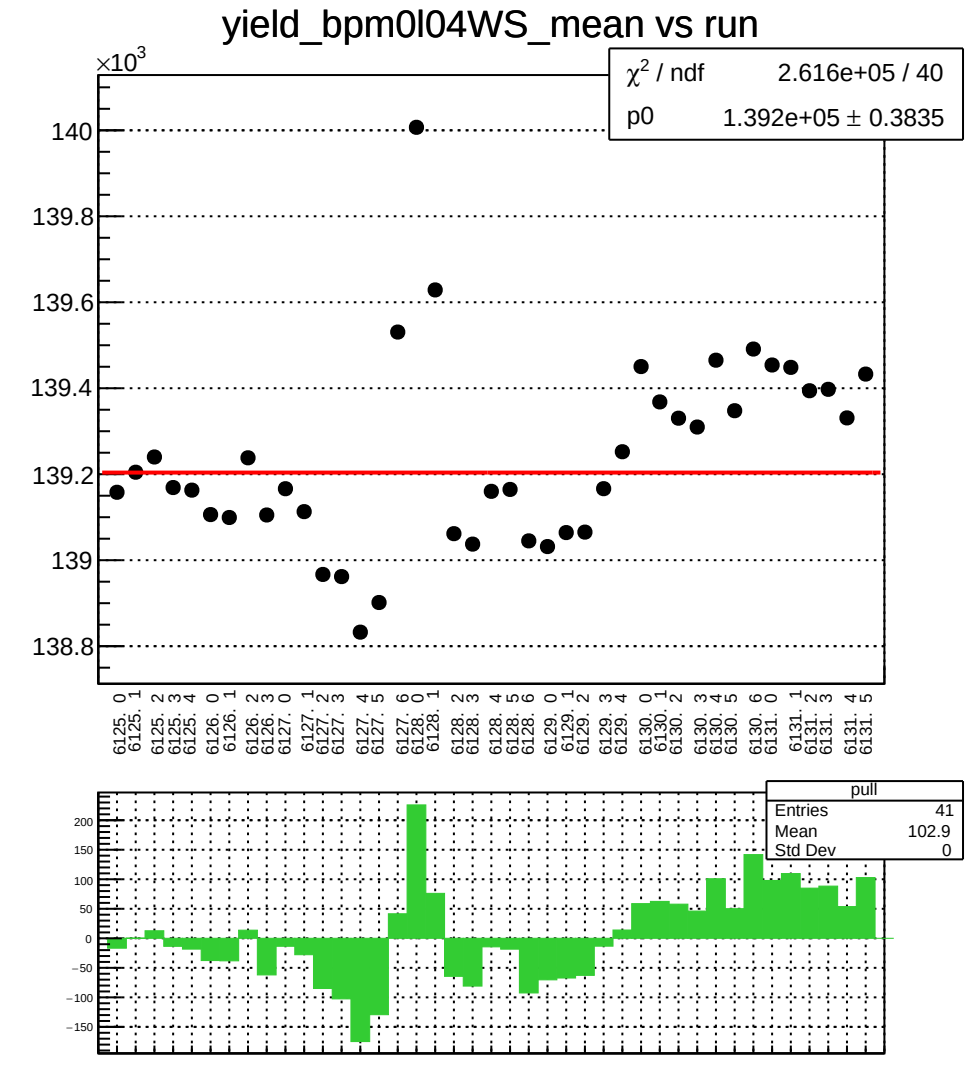

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 4.487e+04 / 40
p0 1.487e+05 ± 0.3394
148.9
148.85
148.8
148.75
148.7
148.65
148.6
148.55
148.5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −165.8
Std Dev 0
60
40
20
0
−20
−40
−60
−80

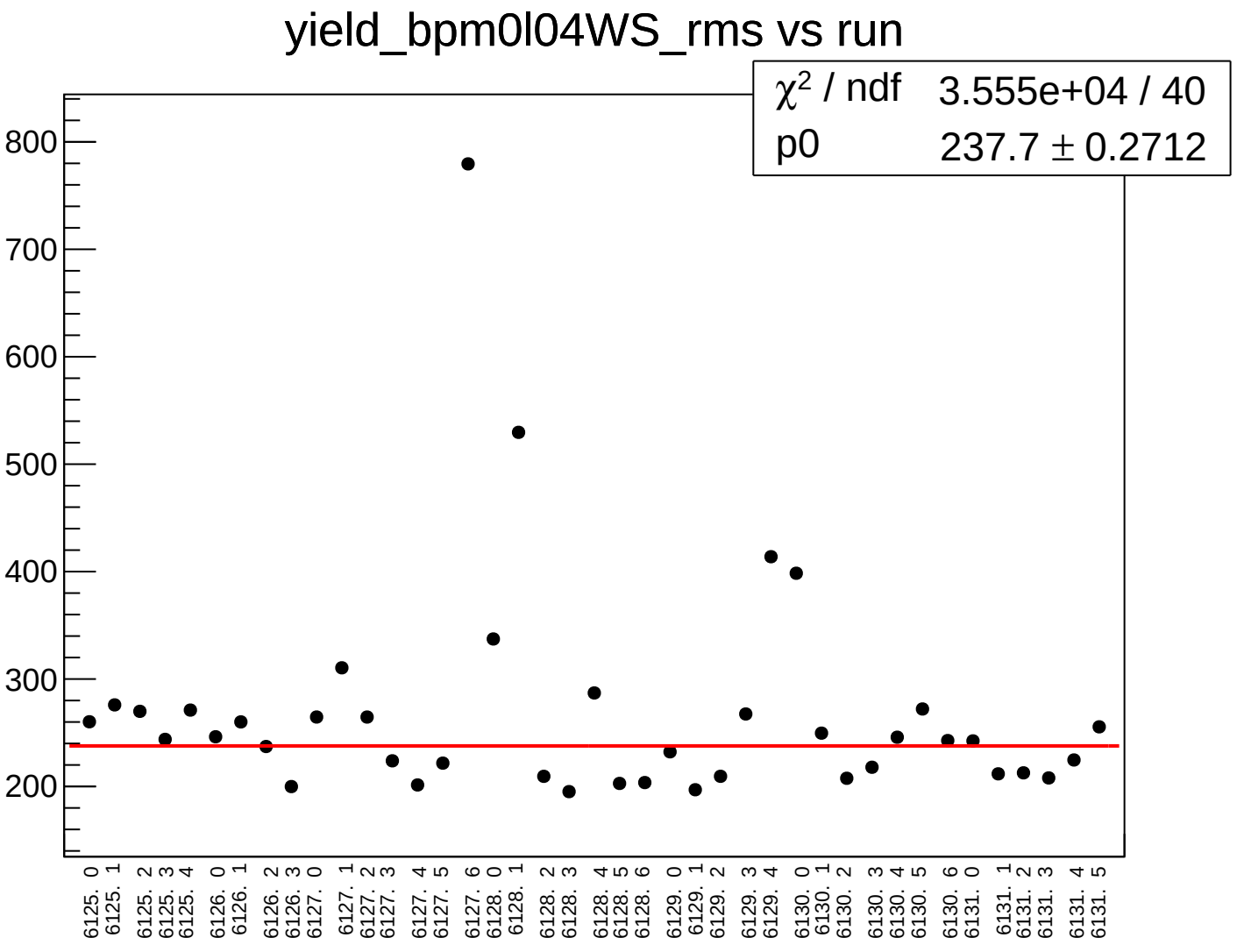

pull1D
Entries 41
Mean 1.015
Std Dev 4.539
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

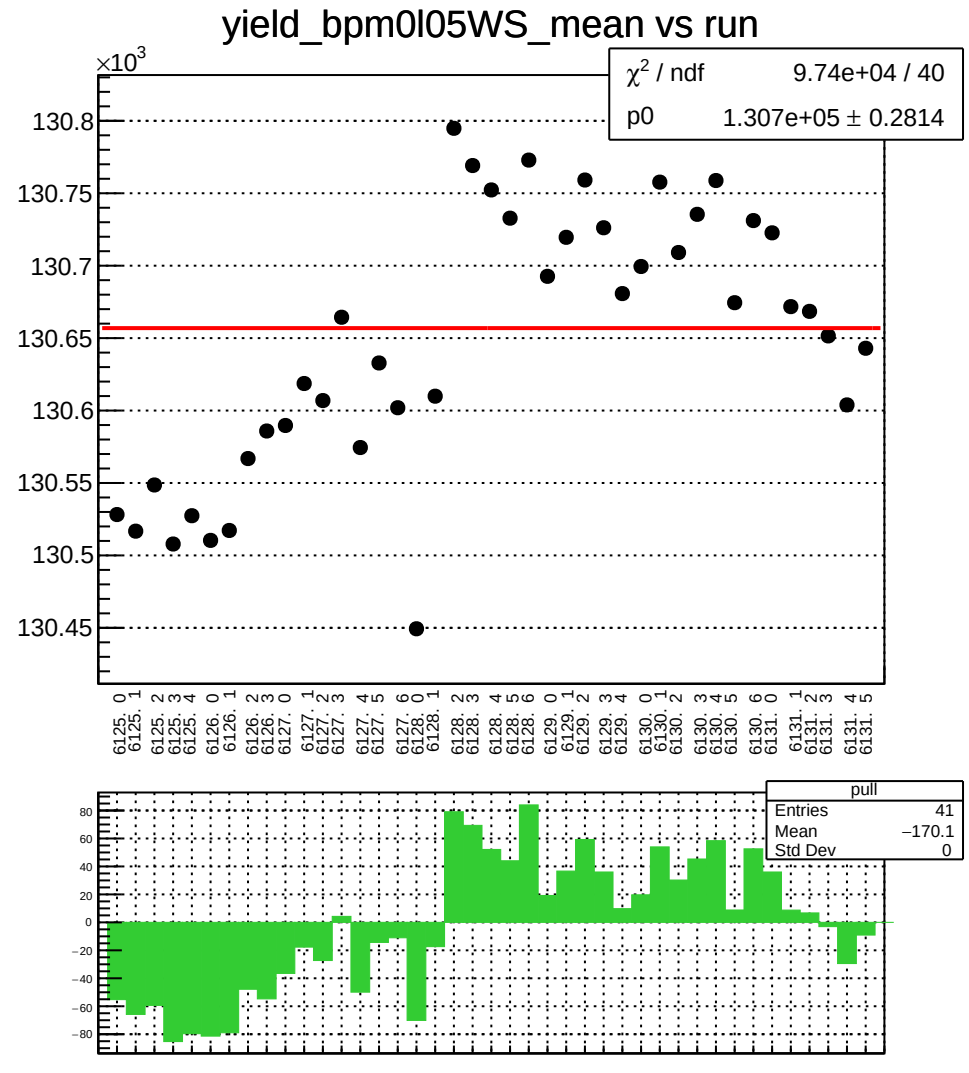

yield_bpm0l02WS_rms vs run
χ² / ndf 1.585e+04 / 40
p0 213.1 ± 0.24
550
500
450
400
350
300
250
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

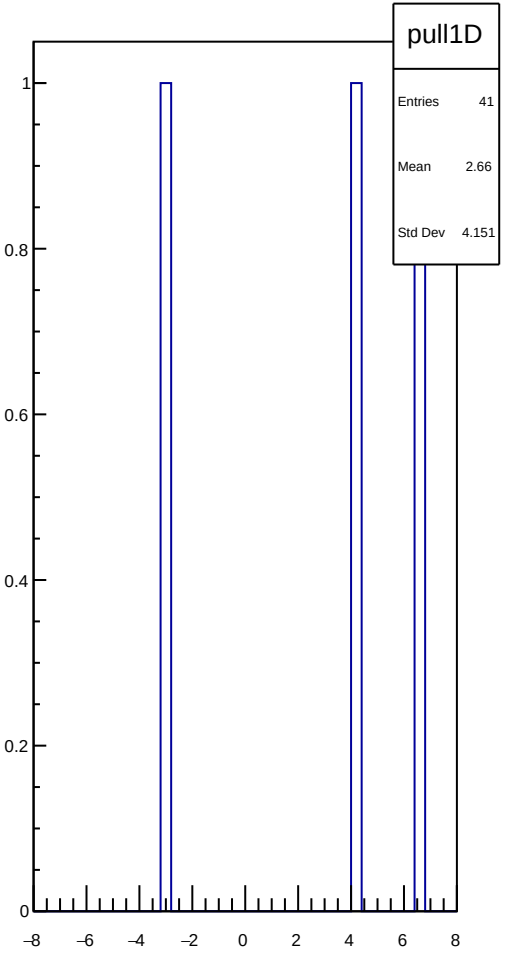

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 2.283e+04 / 40
p0 1.401e+05 ± 0.7144
140.4
140.3
140.2
140.1
140
139.9
139.8
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −32.41
Std Dev 0
40
30
20
10
0
−10
−20
−30
−40
−50
pull1D
Entries 41
Mean −2.88
Std Dev 1.377
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

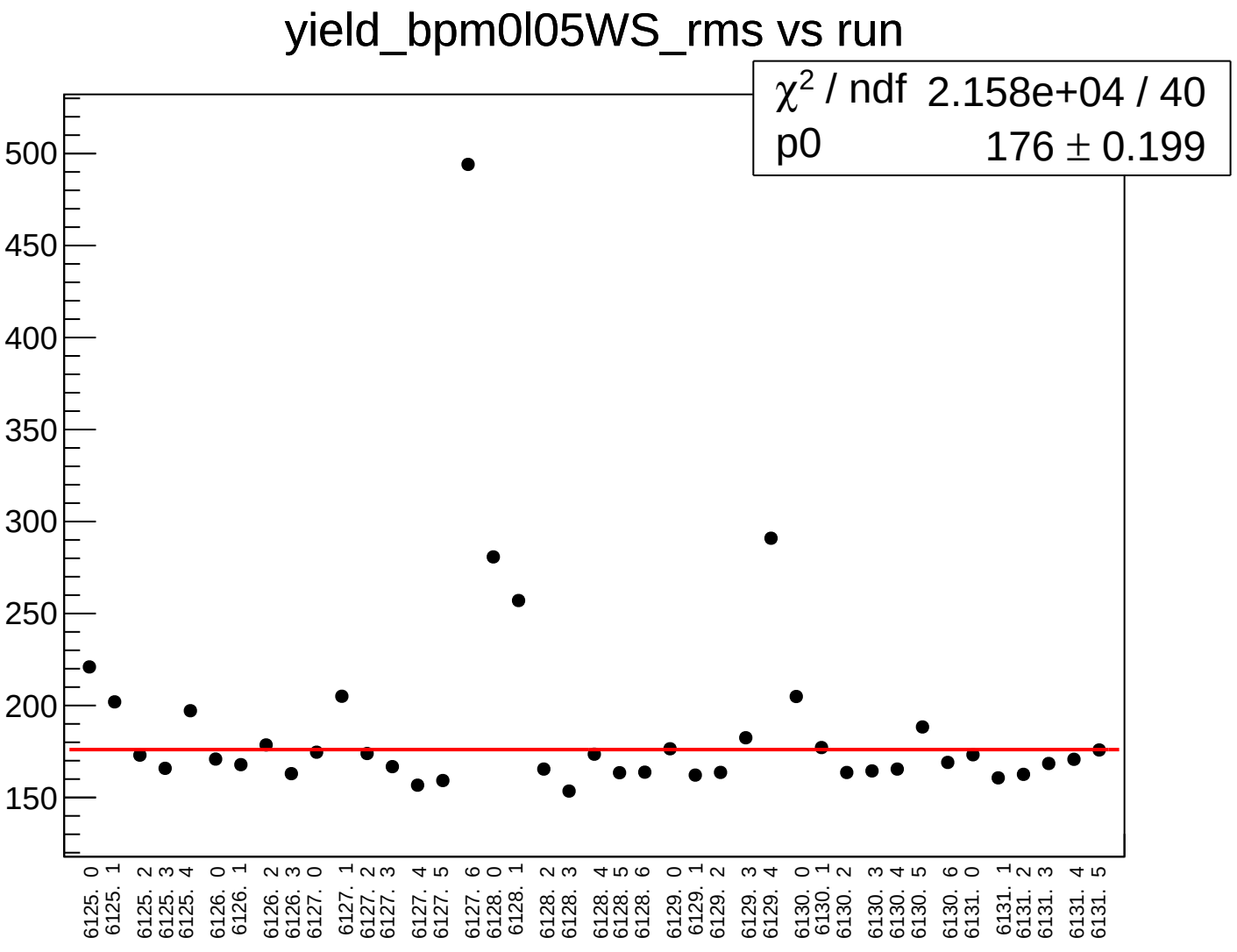

yield_bpm0l03WS_rms vs run
χ² / ndf 2.32e+04 / 40
p0 446.5 ± 0.5052
750
700
650
600
550
500
450
400
350
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

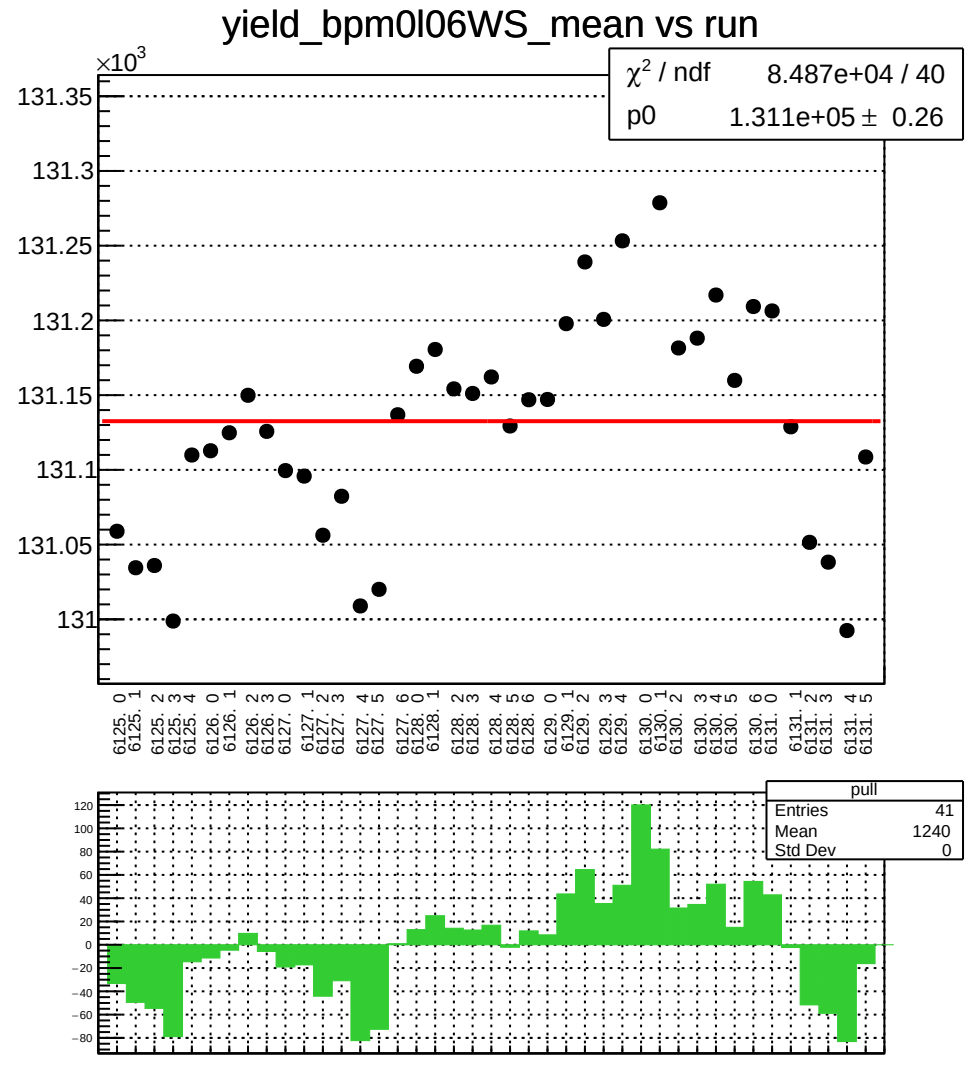

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 2.616e+05 / 40
p0 1.392e+05 ± 0.3835
140
139.8
139.6
139.4
139.2
139
138.8
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 102.9
Std Dev 0
200
150
100
50
0
−50
−100
−150
pull1D
Entries 41
Mean 0.2874
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

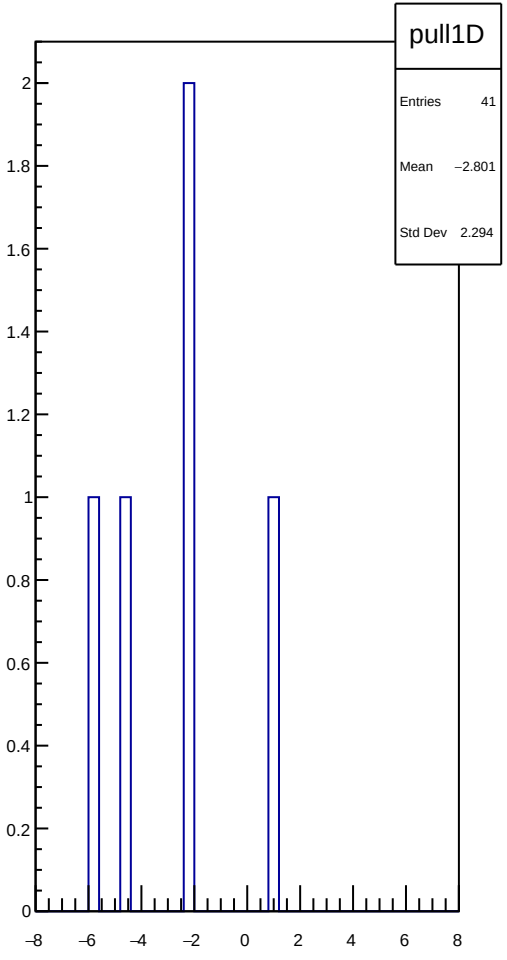

yield_bpm0l04WS_rms vs run
χ² / ndf 3.555e+04 / 40
p0 237.7 ± 0.2712
800
700
600
500
400
300
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

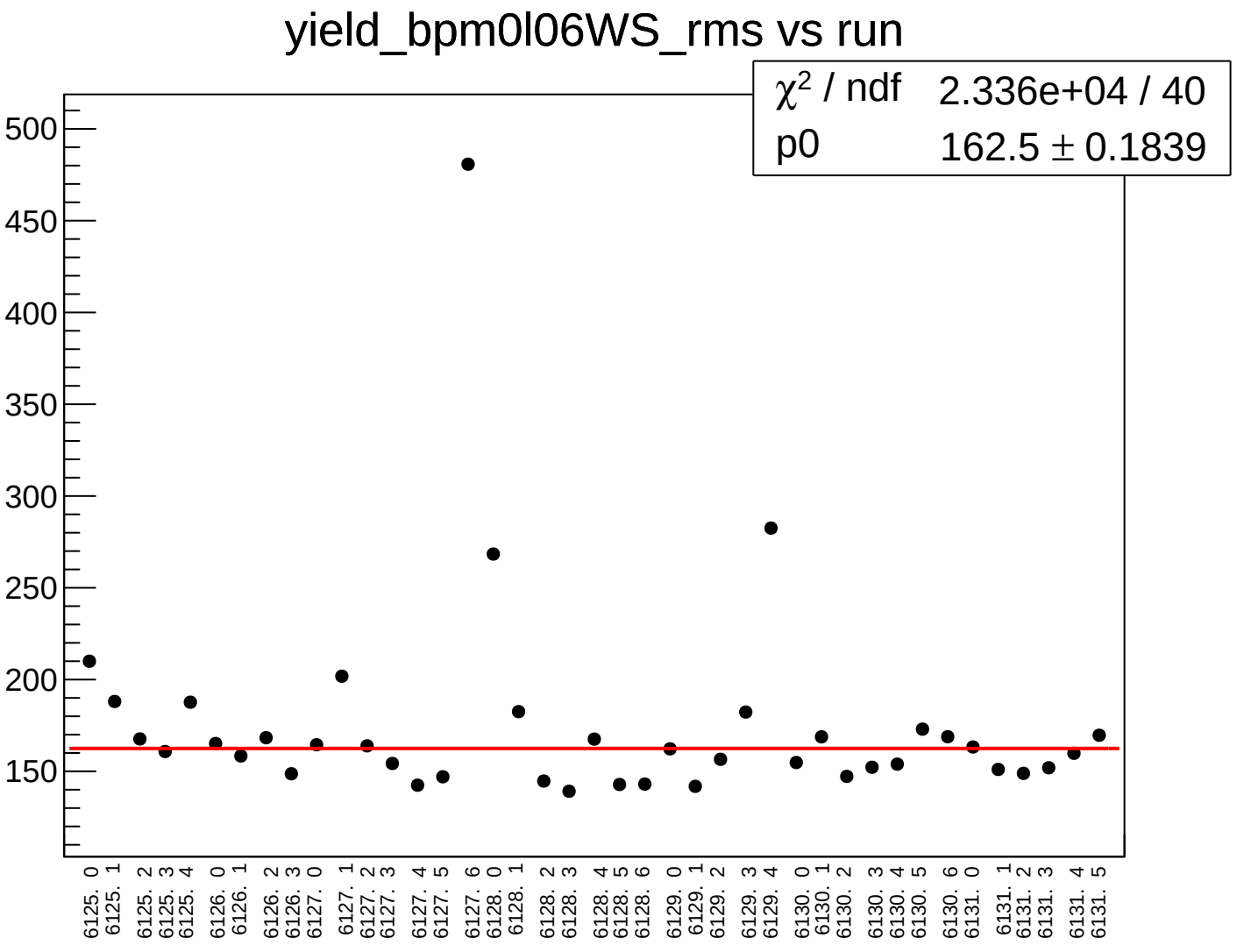

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 9.74e+04 / 40
p0 1.307e+05 ± 0.2814
130.8
130.75
130.7
130.65
130.6
130.55
130.5
130.45
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −170.1
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

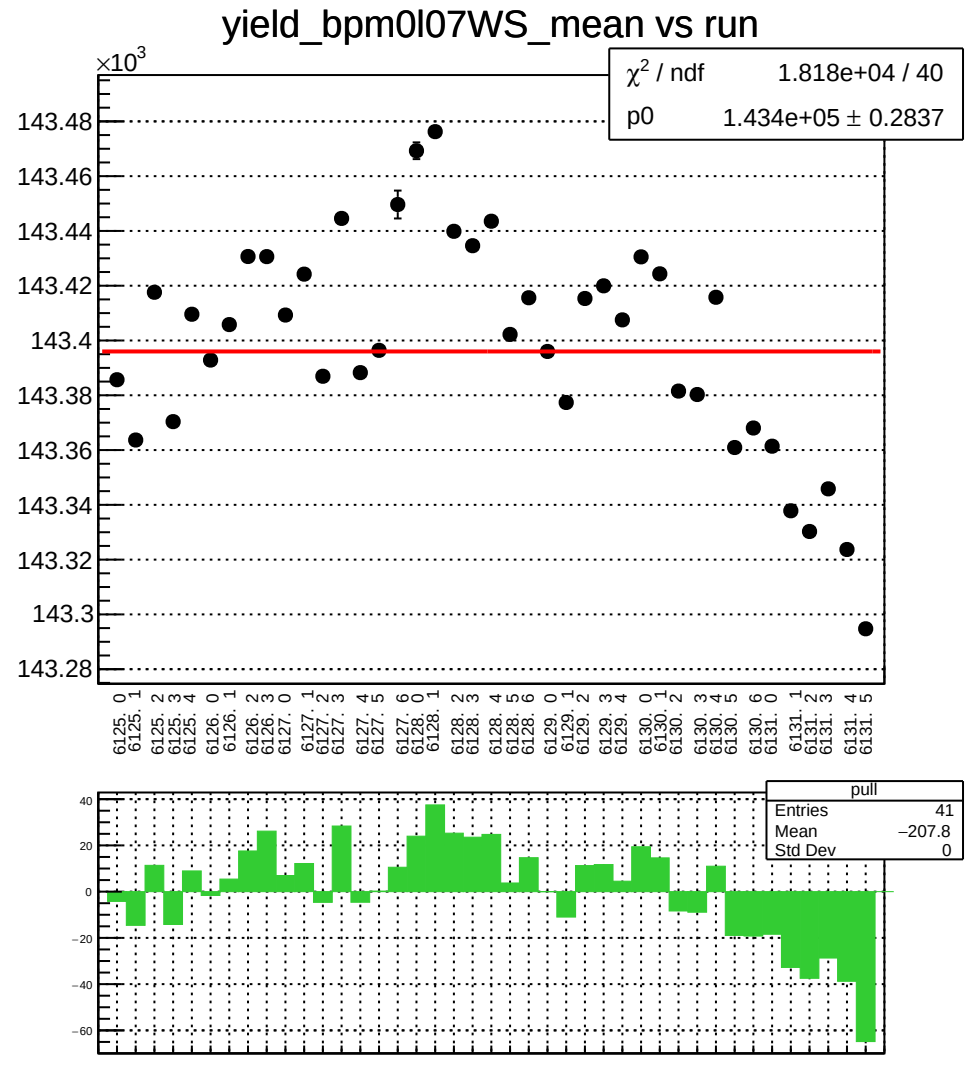

pull1D
Entries 41
Mean 2.66
Std Dev 4.151
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

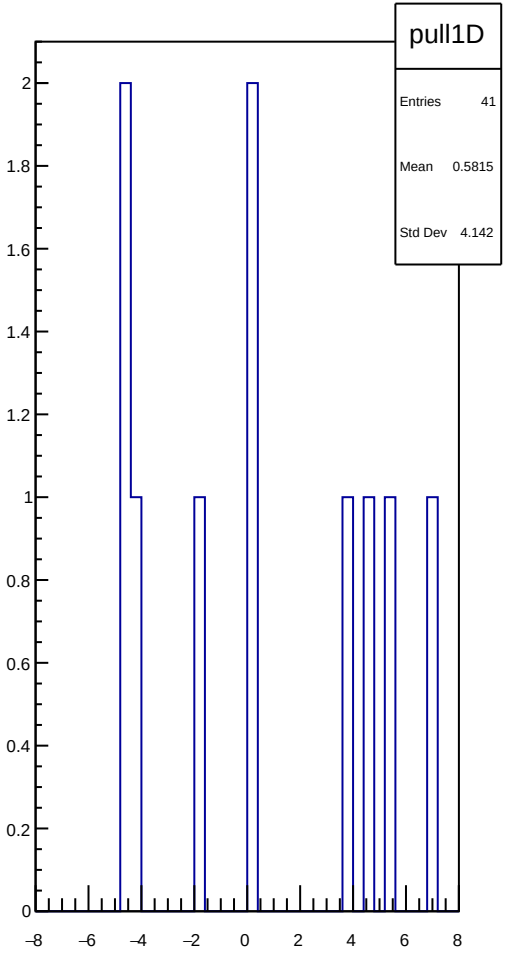

yield_bpm0l05WS_rms vs run
χ² / ndf 2.158e+04 / 40
p0 176 ± 0.199
500
450
400
350
300
250
200
150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

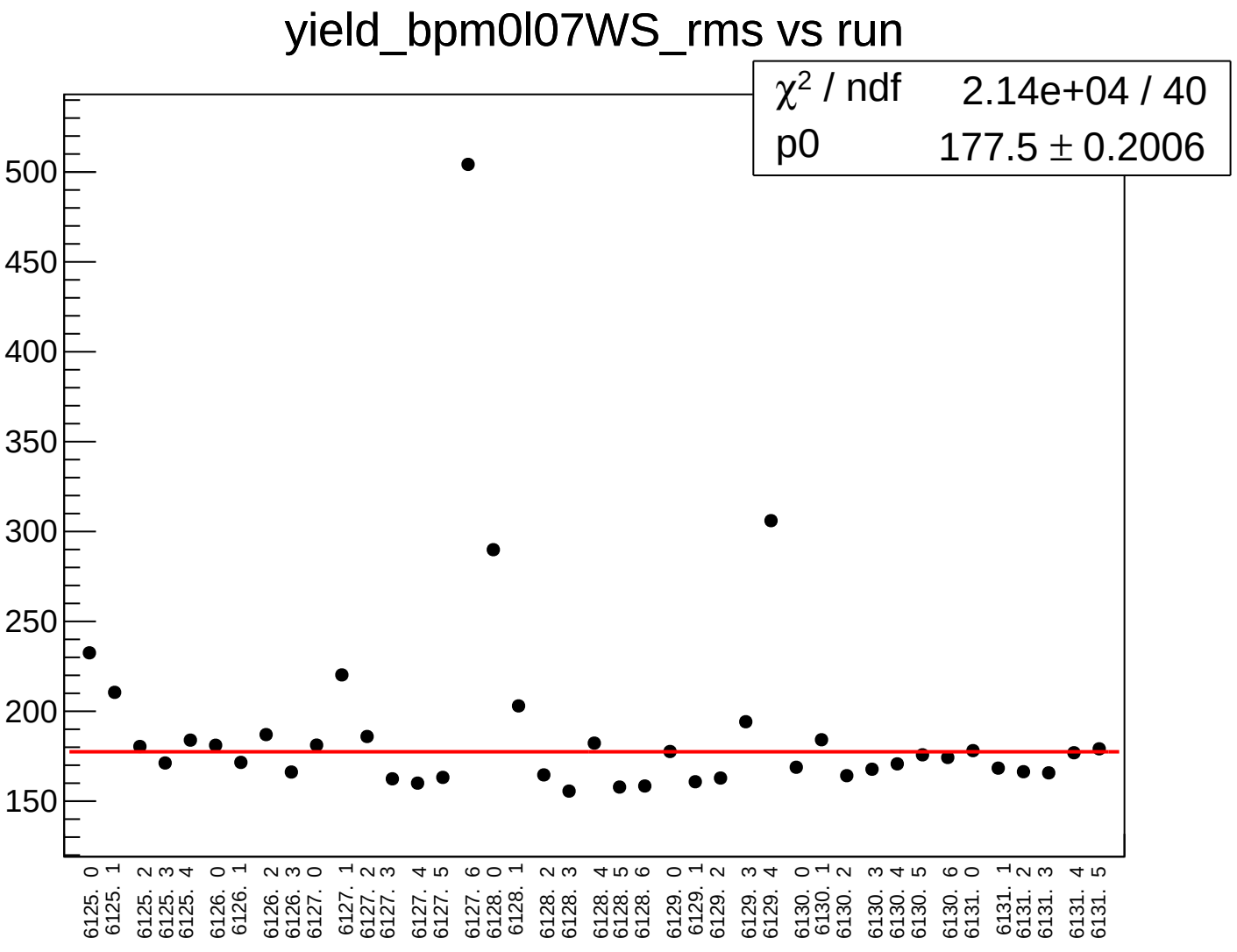

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 8.487e+04 / 40
p0 1.311e+05 ± 0.26
131.35
131.3
131.25
131.2
131.15
131.1
131.05
131
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1240
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

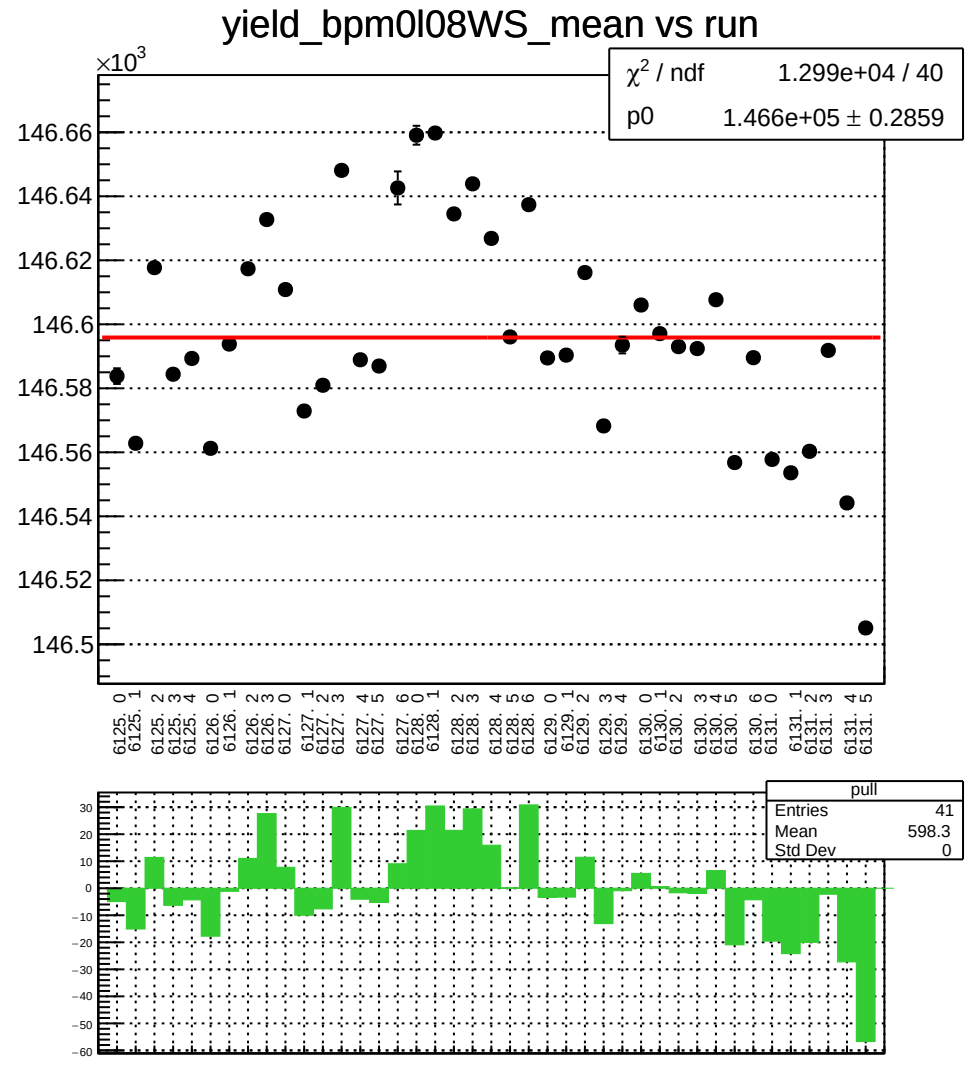

pull1D
Entries 41
Mean −2.801
Std Dev 2.294
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

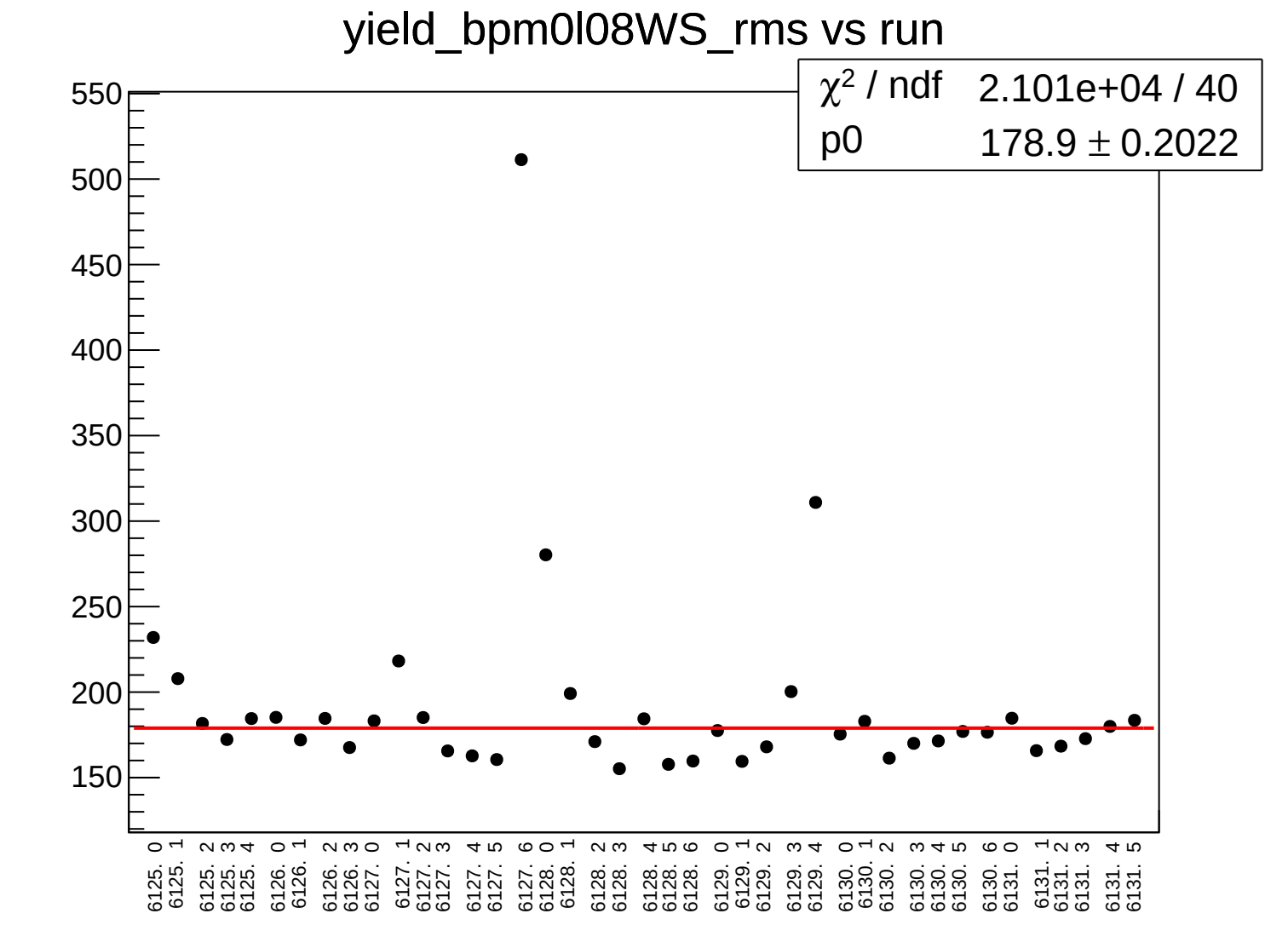

yield_bpm0l06WS_rms vs run
χ² / ndf 2.336e+04 / 40
p0 162.5 ± 0.1839
500
450
400
350
300
250
200
150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

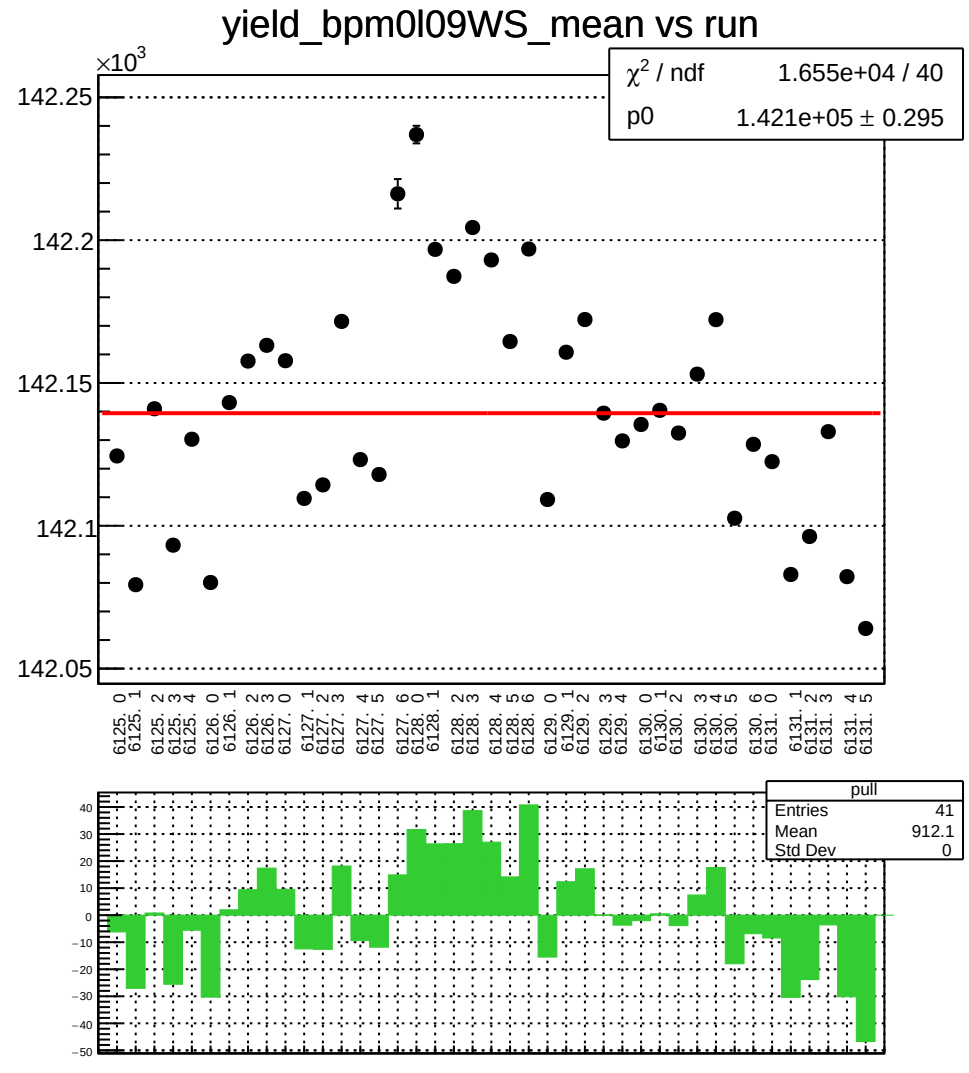

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 1.818e+04 / 40
p0 1.434e+05 ± 0.2837
143.48
143.46
143.44
143.42
143.4
143.38
143.36
143.34
143.32
143.3
143.28
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −207.8
Std Dev 0
40
20
0
−20
−40
−60

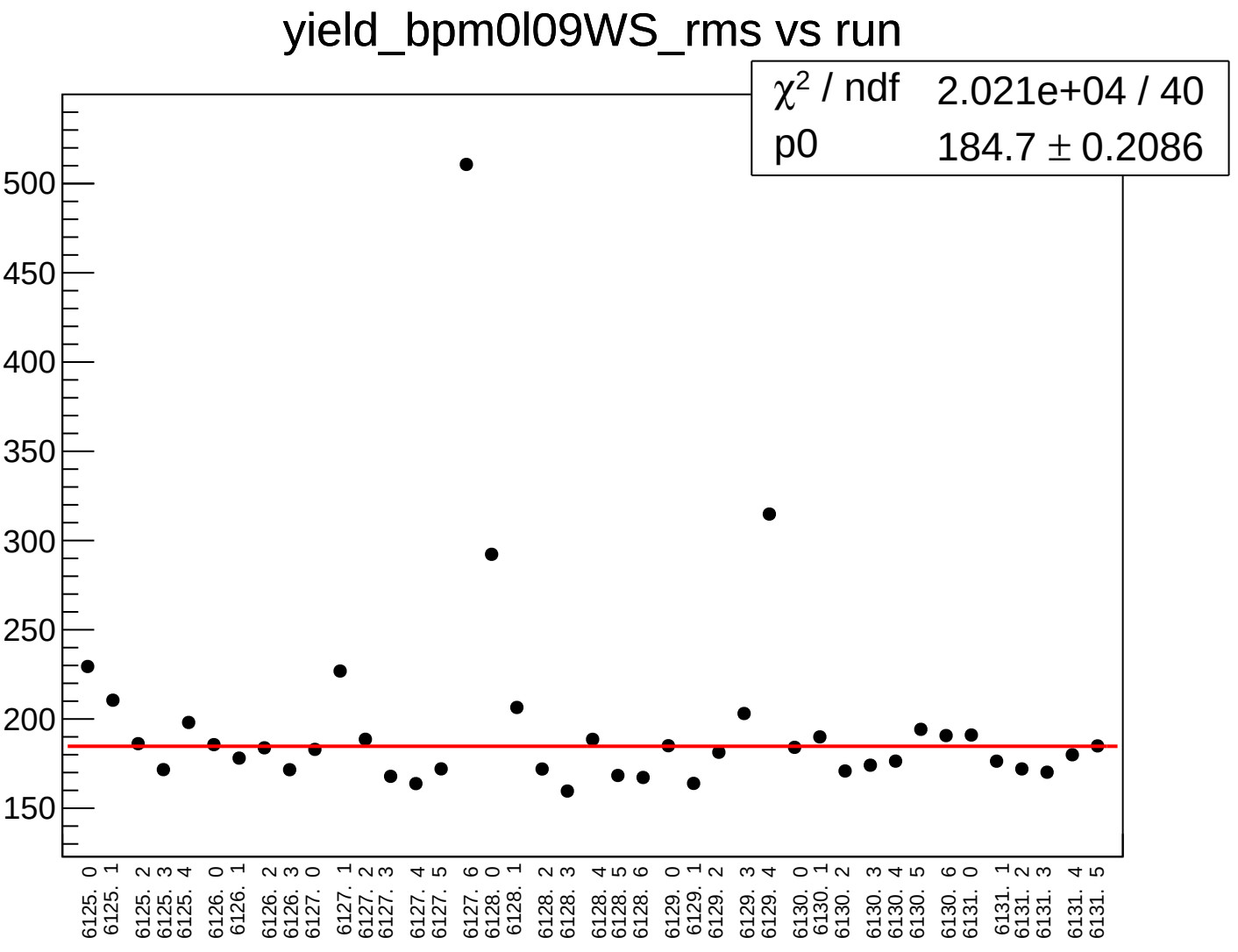

pull1D
Entries 41
Mean 0.5815
Std Dev 4.142
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

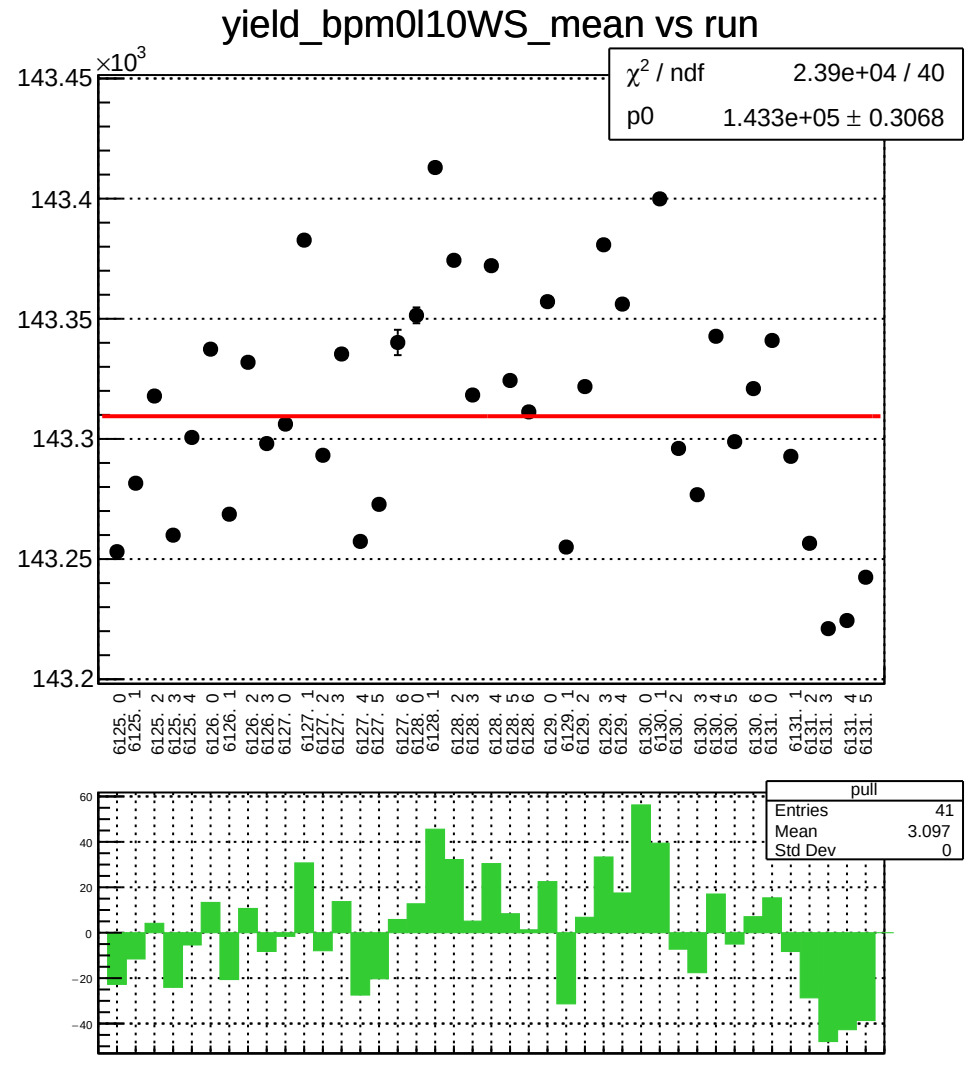

yield_bpm0l07WS_rms vs run
χ² / ndf 2.14e+04 / 40
p0 177.5 ± 0.2006
500
450
400
350
300
250
200
150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

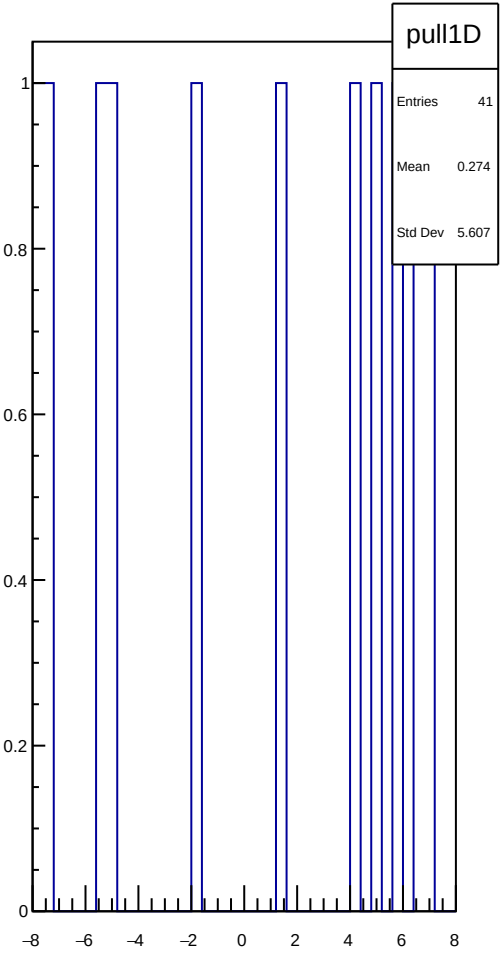

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 1.299e+04 / 40
p0 1.466e+05 ± 0.2859
146.66
146.64
146.62
146.6
146.58
146.56
146.54
146.52
146.5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 598.3
Std Dev 0
30
20
10
0
−10
−20
−30
−40
−50
−60
pull1D
Entries 41
Mean −1.62
Std Dev 4.123
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

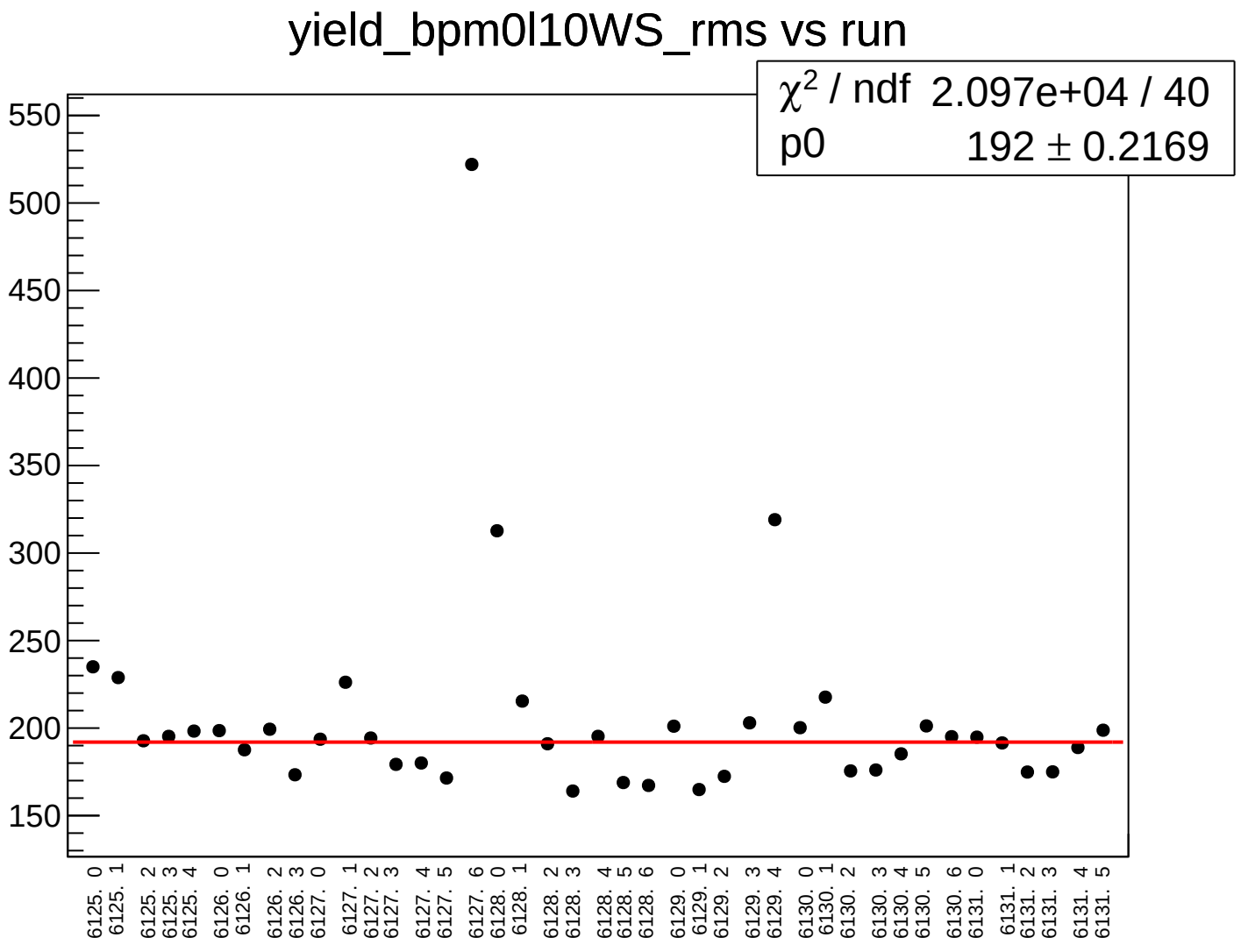

yield_bpm0l08WS_rms vs run
χ² / ndf 2.101e+04 / 40
p0 178.9 ± 0.2022
550
500
450
400
350
300
250
200
150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

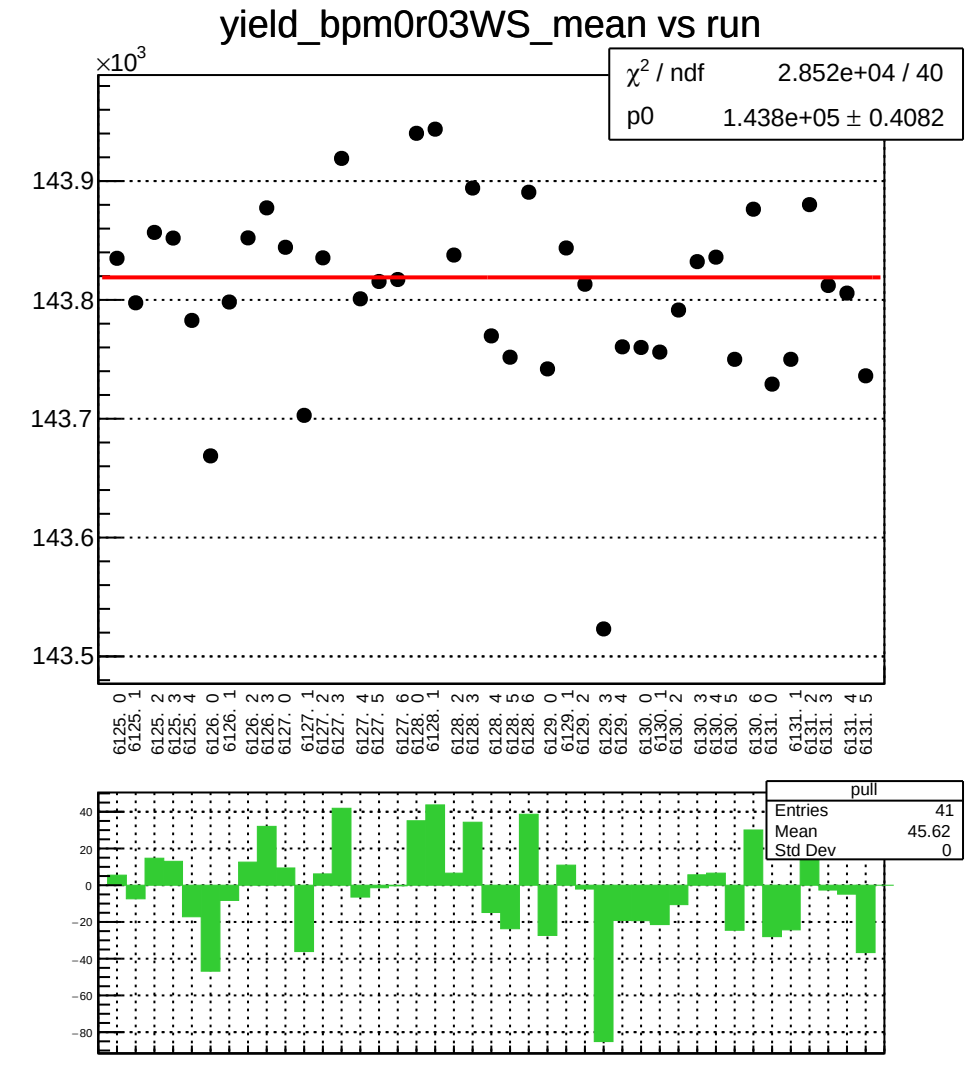

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 1.655e+04 / 40
p0 1.421e+05 ± 0.295
142.25
142.2
142.15
142.1
142.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 912.1
Std Dev 0
40
30
20
10
0
−10
−20
−30
−40
−50
pull1D
Entries 41
Mean −1.754
Std Dev 3.928
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

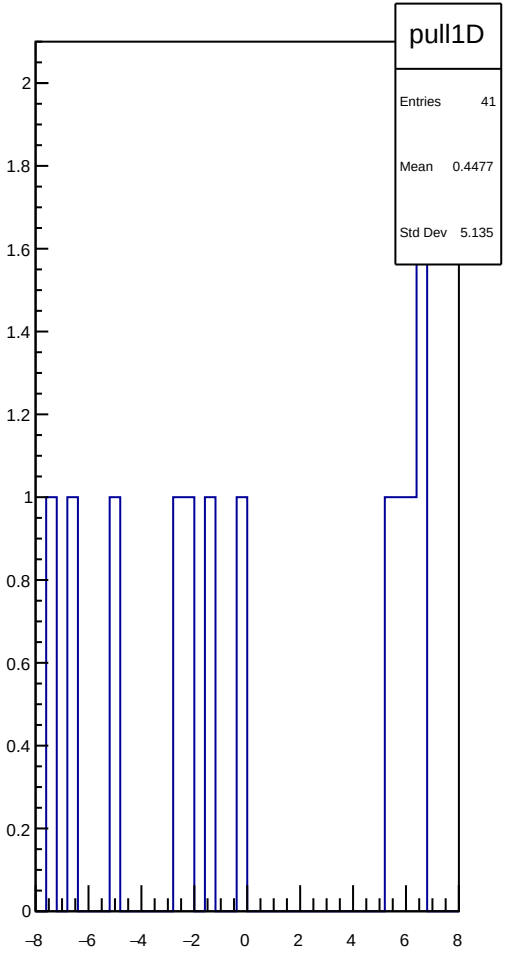

yield_bpm0l09WS_rms vs run
χ² / ndf 2.021e+04 / 40
p0 184.7 ± 0.2086
500
450
400
350
300
250
200
150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

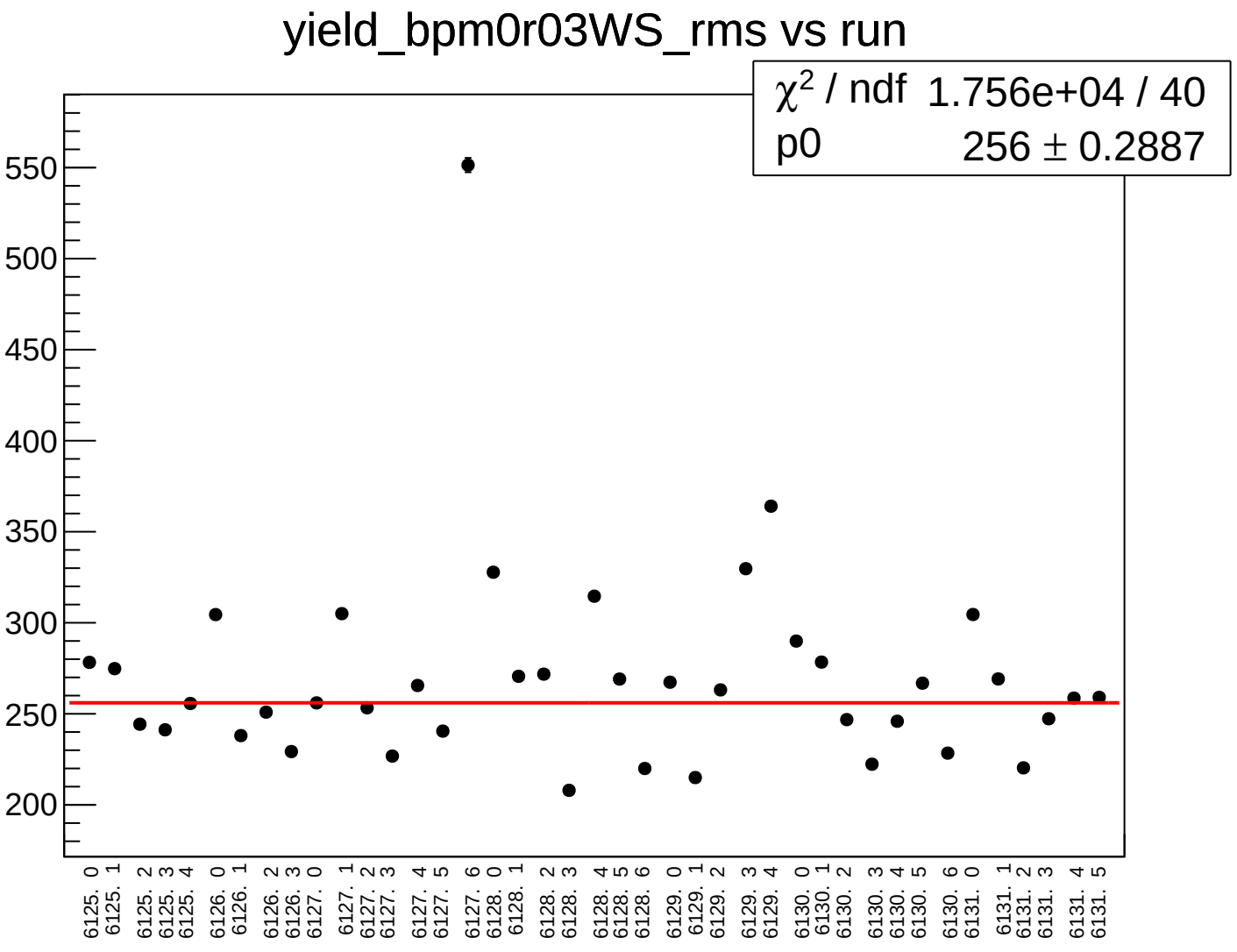

yield_bpm0l10WS_mean vs run
×10^3
143.45
143.4
143.35
143.3
143.25
143.2
χ² / ndf 2.39e+04 / 40
p0 1.433e+05 ± 0.3068
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 3.097
Std Dev 0
60
40
20
0
−20
−40

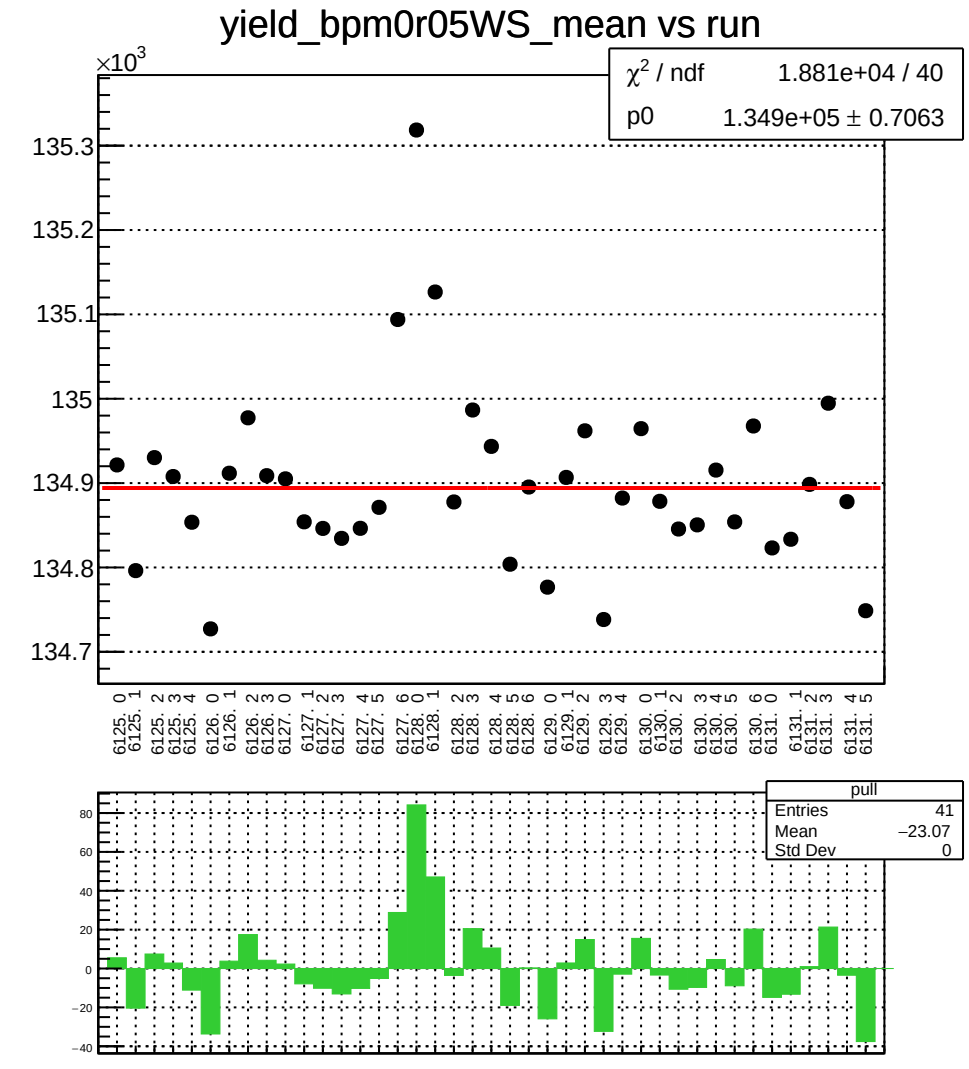

pull1D
Entries 41
Mean 0.274
Std Dev 5.607
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

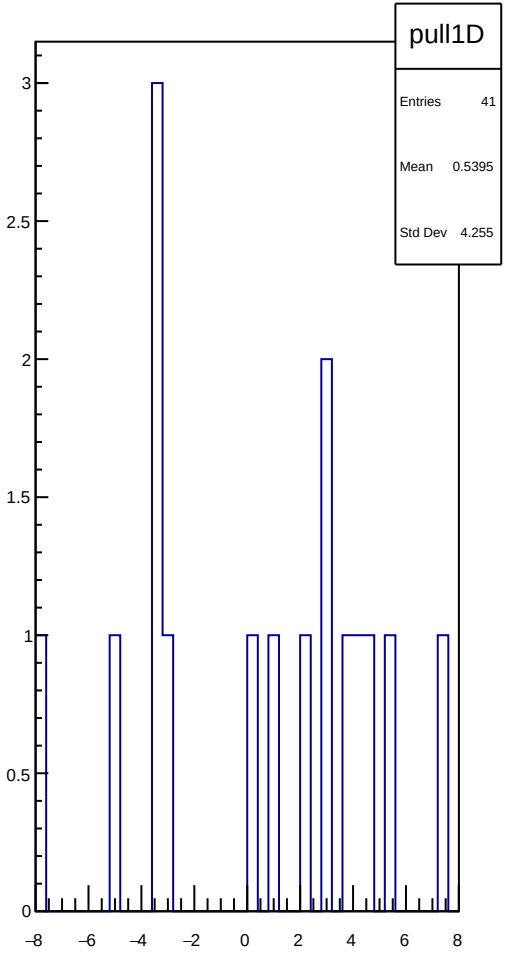

yield_bpm0l10WS_rms vs run
χ² / ndf 2.097e+04 / 40
p0 192 ± 0.2169
550
500
450
400
350
300
250
200
150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

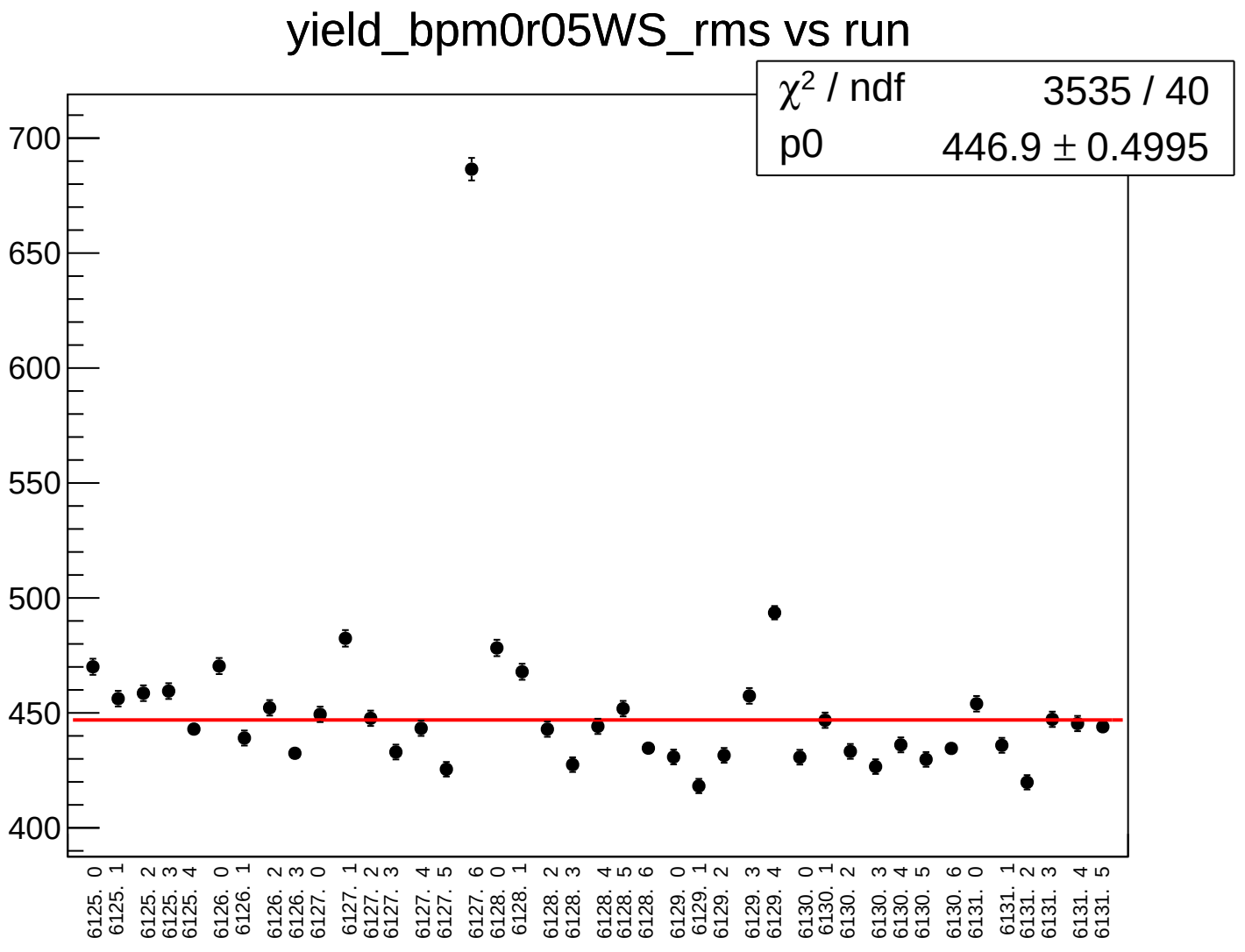

yield_bpm0r03WS_mean vs run
×10^3
χ^2 / ndf 2.852e+04 / 40
p0 1.438e+05 ± 0.4082
143.9
143.8
143.7
143.6
143.5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 45.62
Std Dev 0
40
20
0
−20
−40
−60
−80

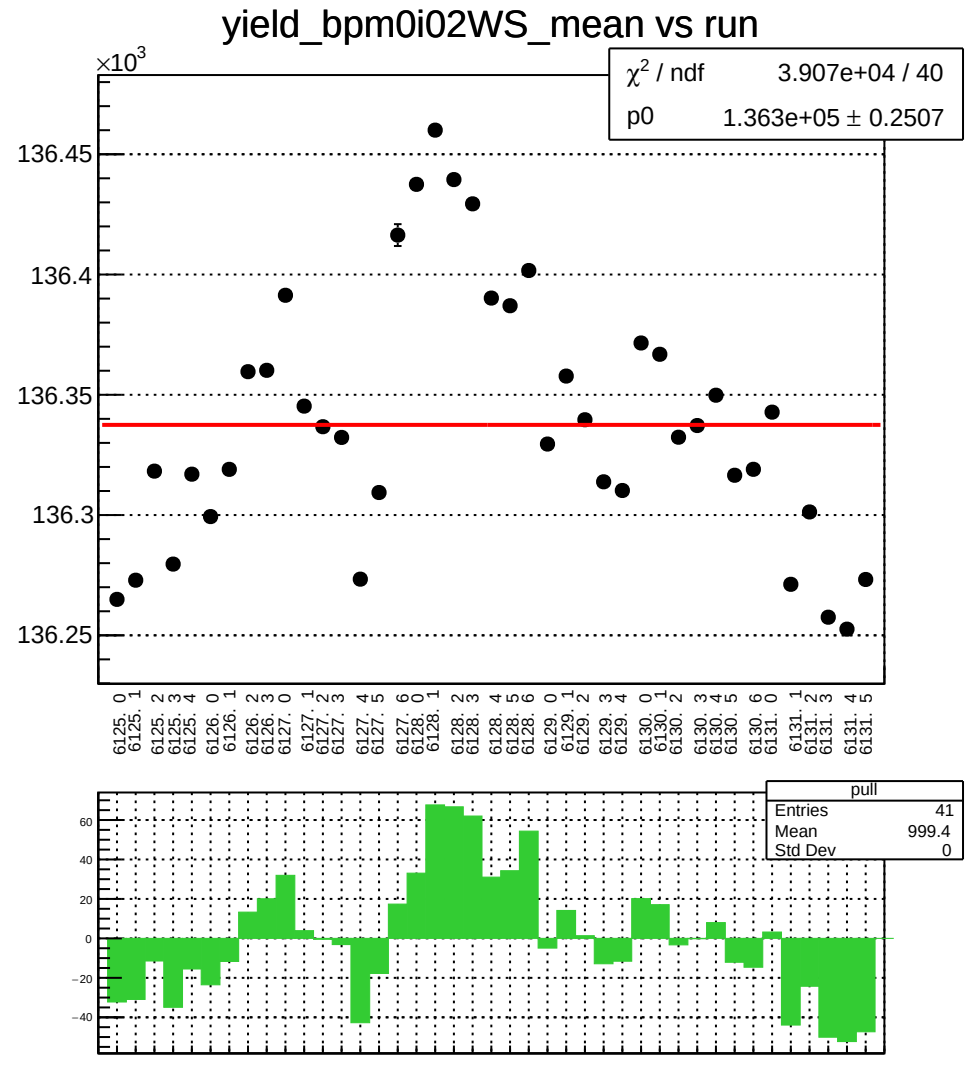

pull1D
Entries 41
Mean 0.4477
Std Dev 5.135
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

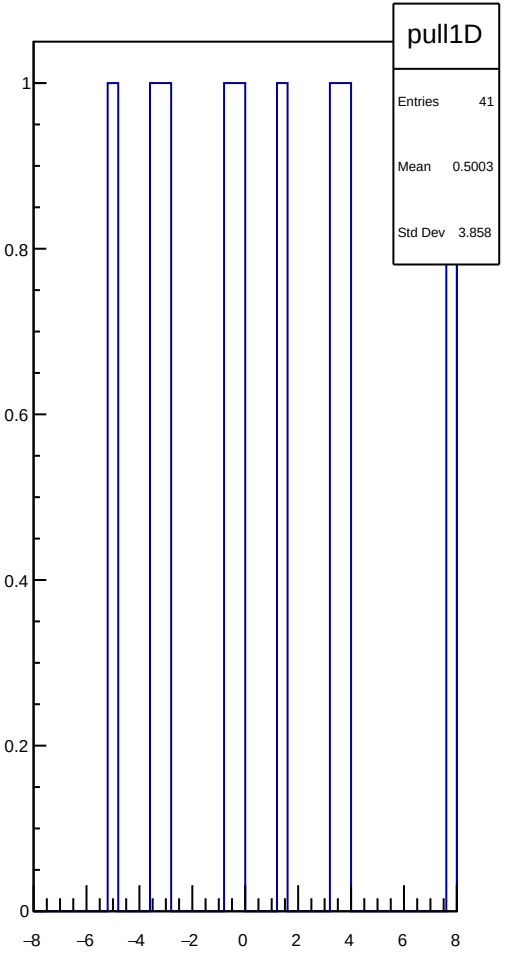

yield_bpm0r03WS_rms vs run
χ² / ndf 1.756e+04 / 40
p0 256 ± 0.2887
550
500
450
400
350
300
250
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

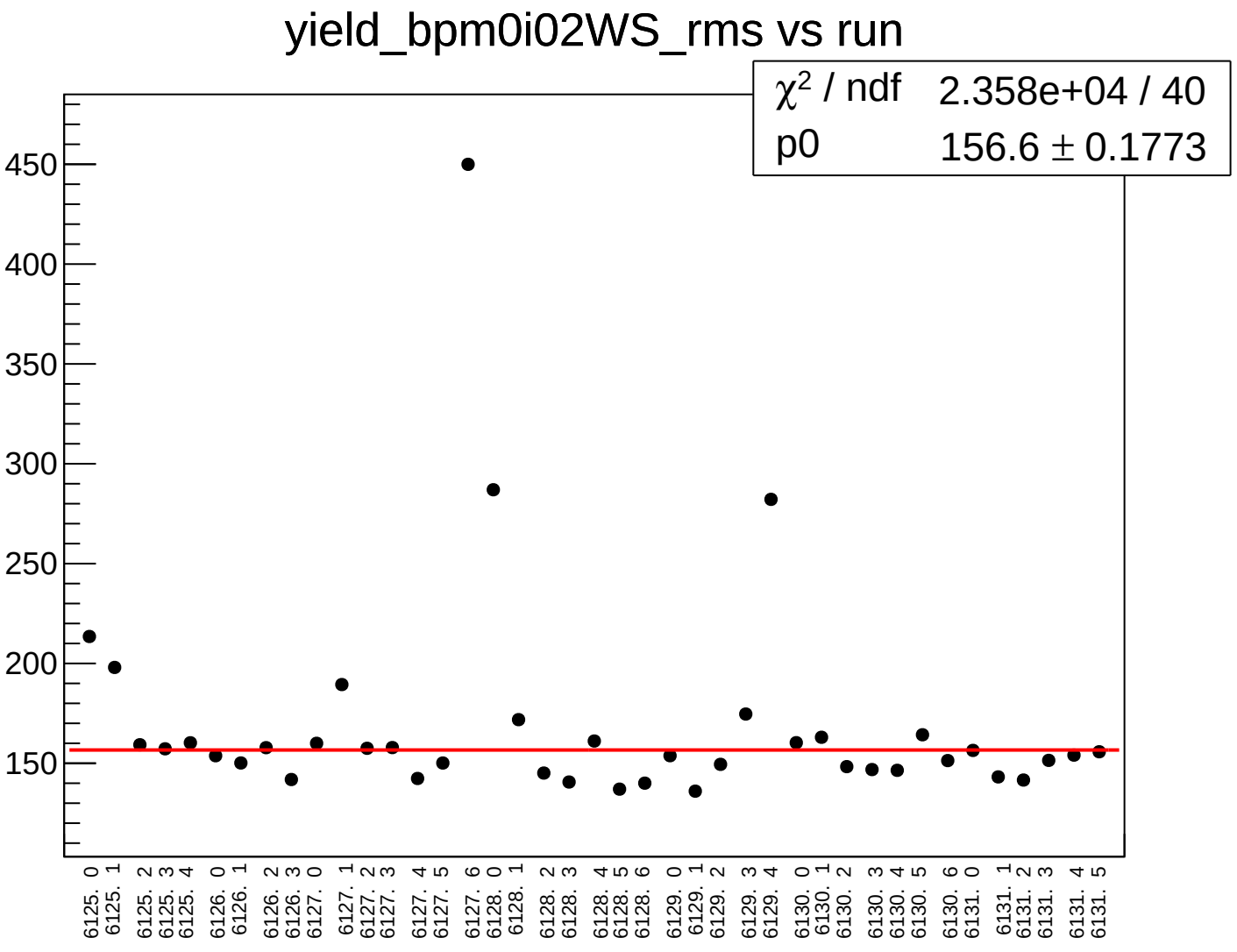

yield_bpm0r05WS_mean vs run
χ² / ndf 1.881e+04 / 40
p0 1.349e+05 ± 0.7063
×10³
135.3
135.2
135.1
135
134.9
134.8
134.7
pull
Entries 41
Mean −23.07
Std Dev 0
80
60
40
20
0
−20
−40

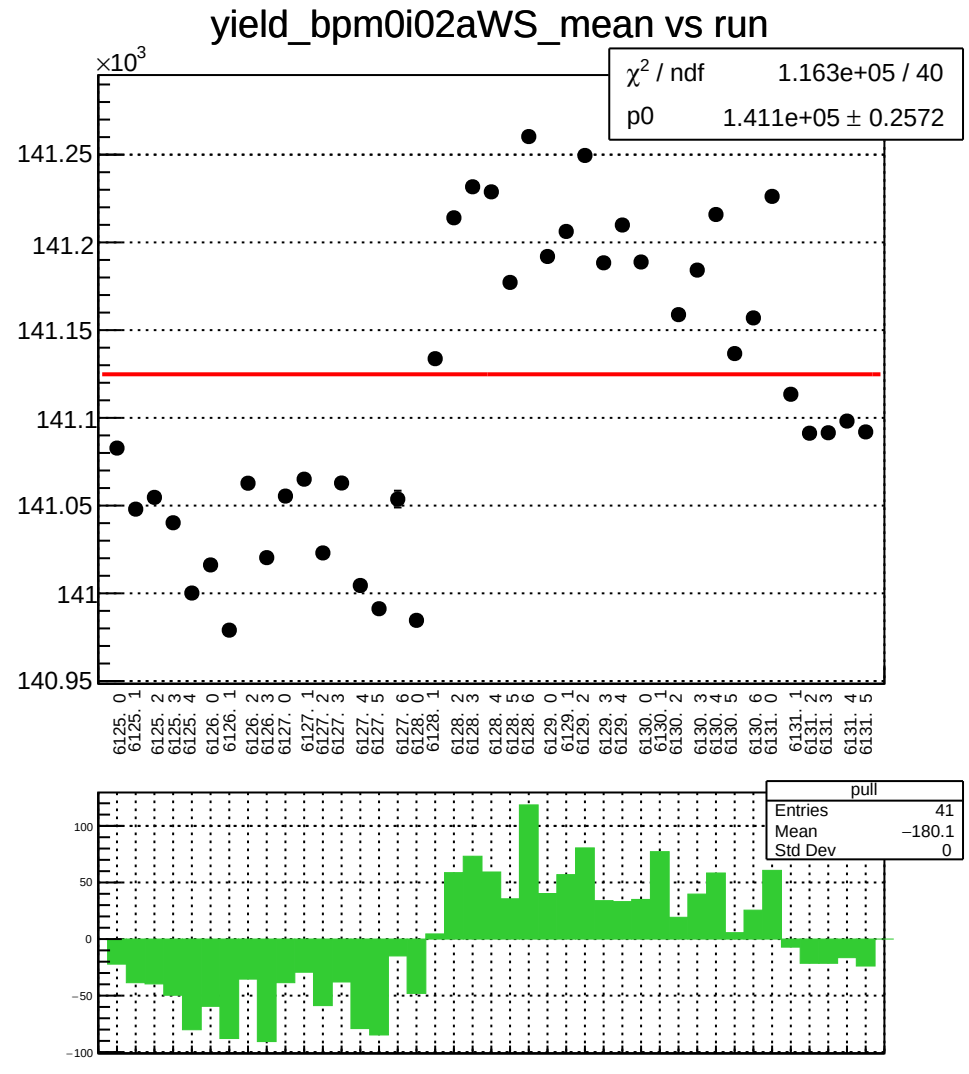

pull1D
Entries 41
Mean 0.5395
Std Dev 4.255
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

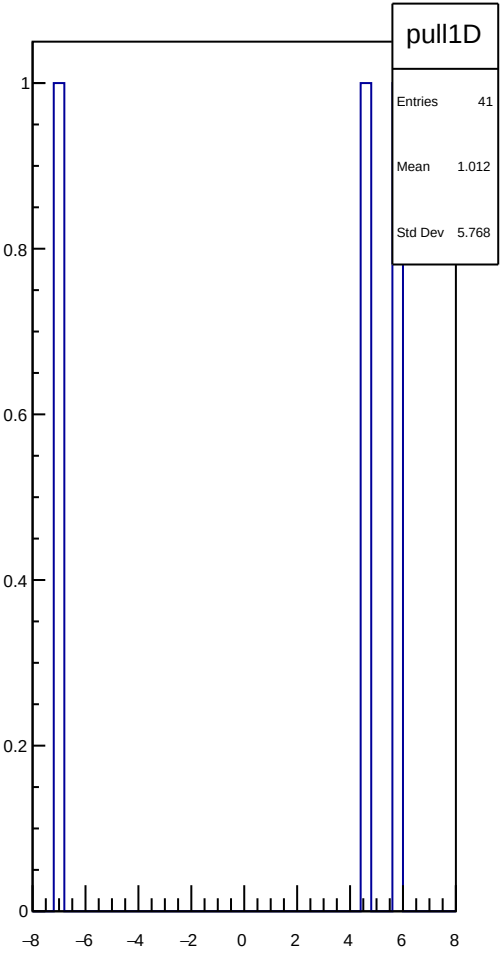

yield_bpm0r05WS_rms vs run
χ² / ndf 3535 / 40
p0 446.9 ± 0.4995
700
650
600
550
500
450
400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

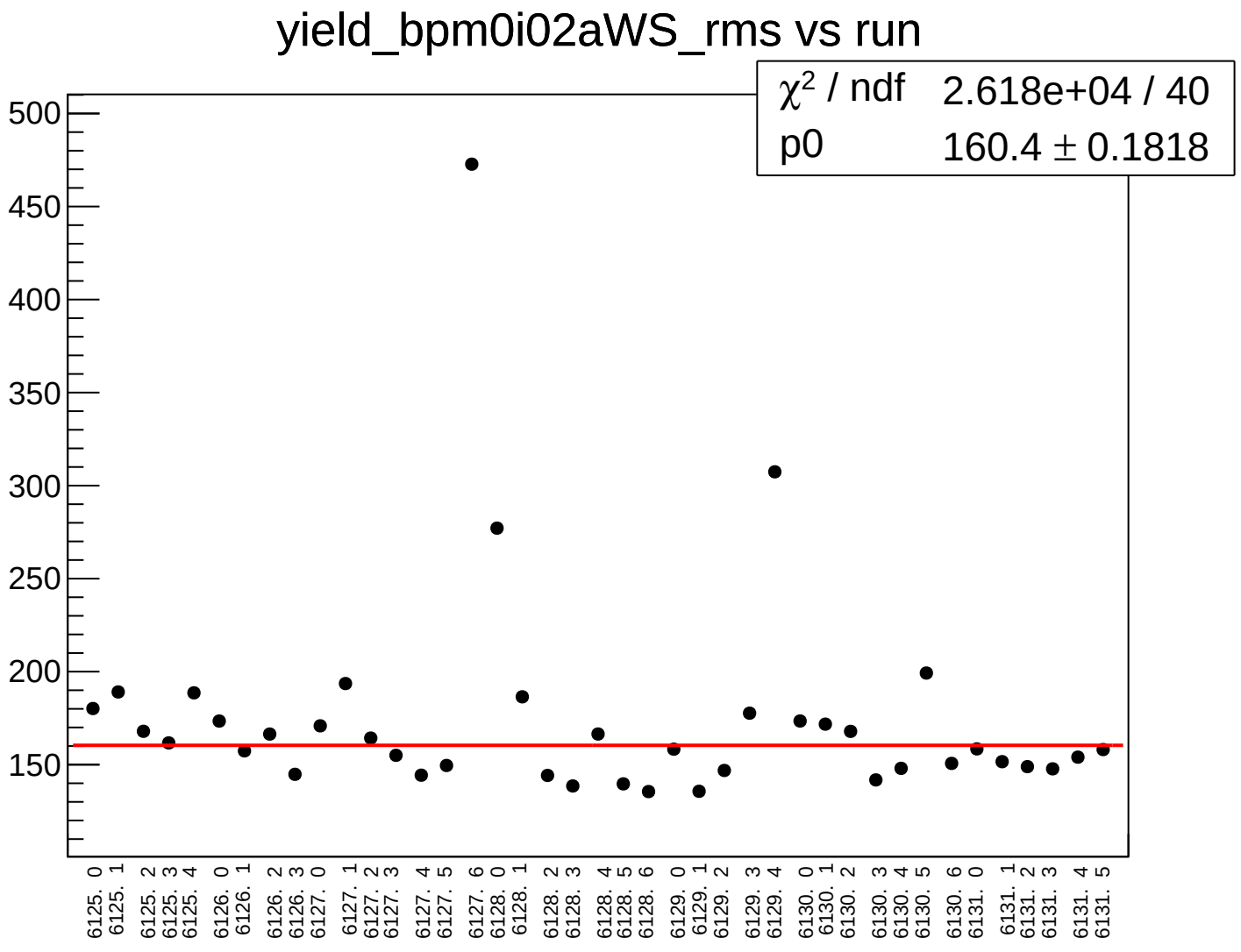

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 3.907e+04 / 40
p0 1.363e+05 ± 0.2507
136.45
136.4
136.35
136.3
136.25
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 999.4
Std Dev 0
60
40
20
0
−20
−40

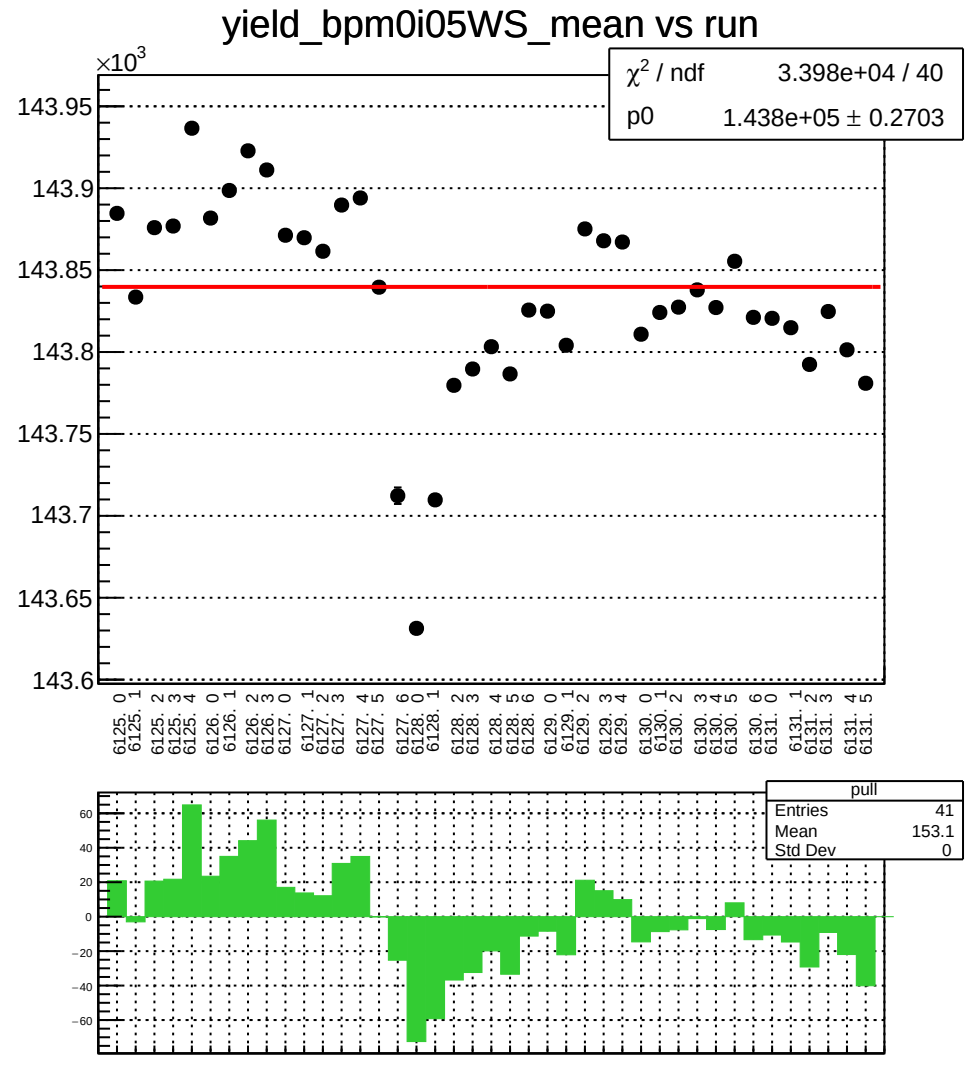

pull1D
Entries 41
Mean 0.5003
Std Dev 3.858
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

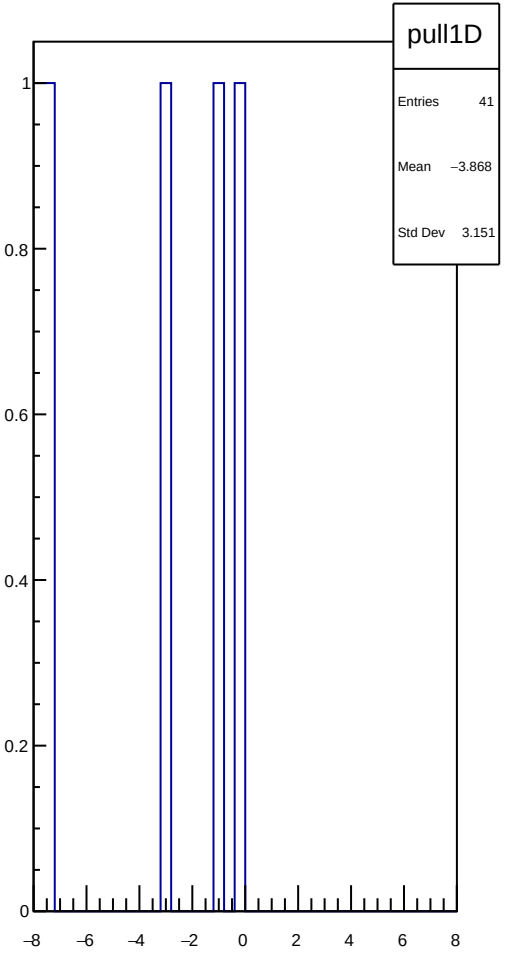

yield_bpm0i02WS_rms vs run
χ² / ndf 2.358e+04 / 40
p0 156.6 ± 0.1773
450
400
350
300
250
200
150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

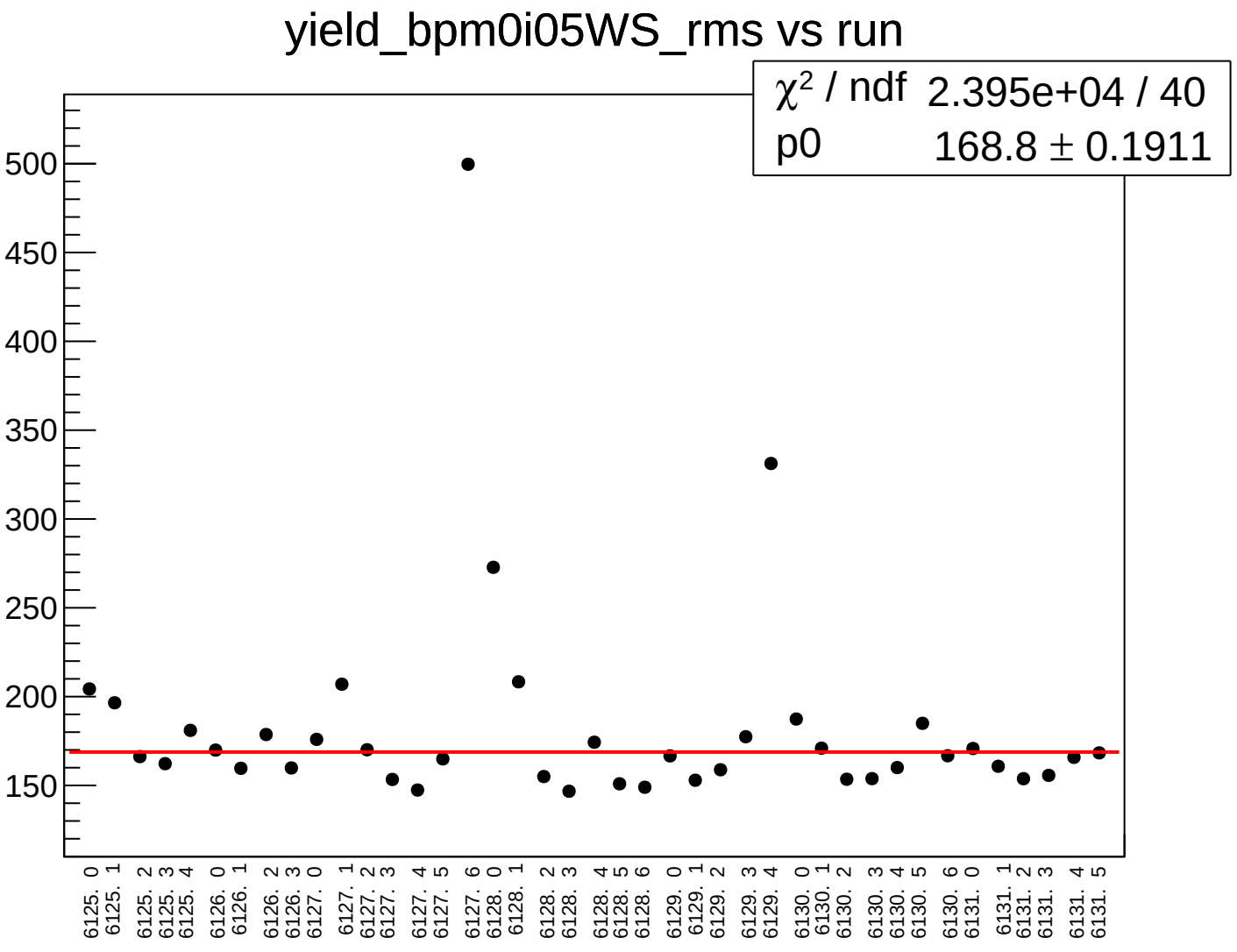

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 1.163e+05 / 40
p0 1.411e+05 ± 0.2572
141.25
141.2
141.15
141.1
141.05
141
140.95
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −180.1
Std Dev 0
100
50
0
−50
−100

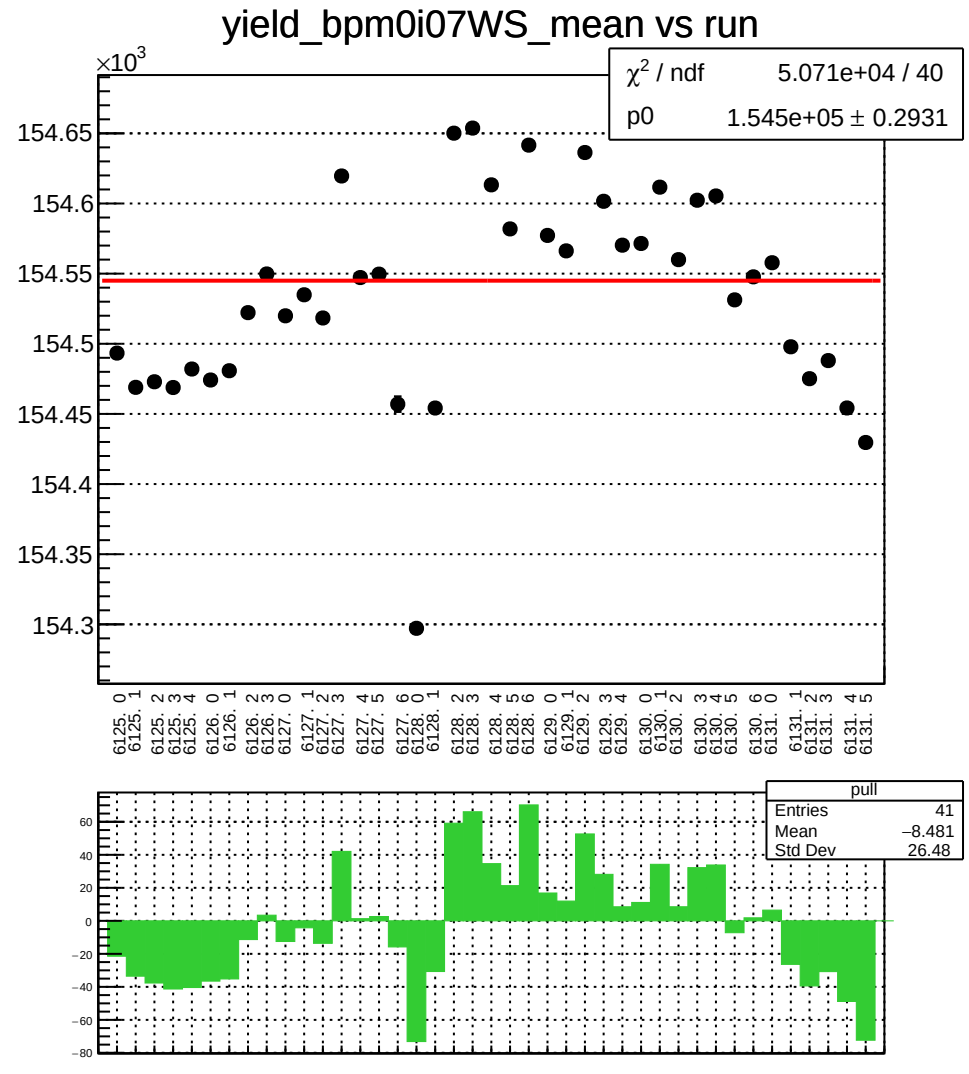

pull1D
Entries 41
Mean 1.012
Std Dev 5.768
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

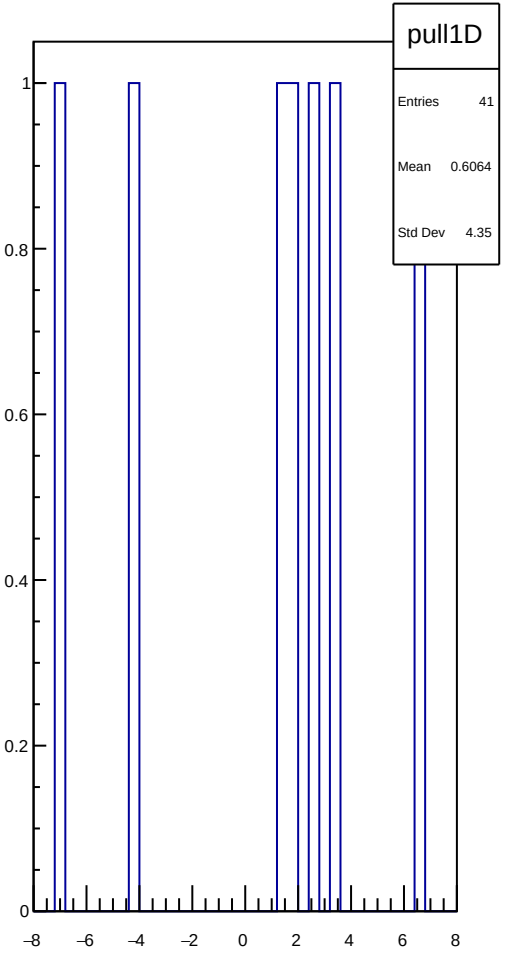

yield_bpm0i02aWS_rms vs run
χ² / ndf 2.618e+04 / 40
p0 160.4 ± 0.1818
500
450
400
350
300
250
200
150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

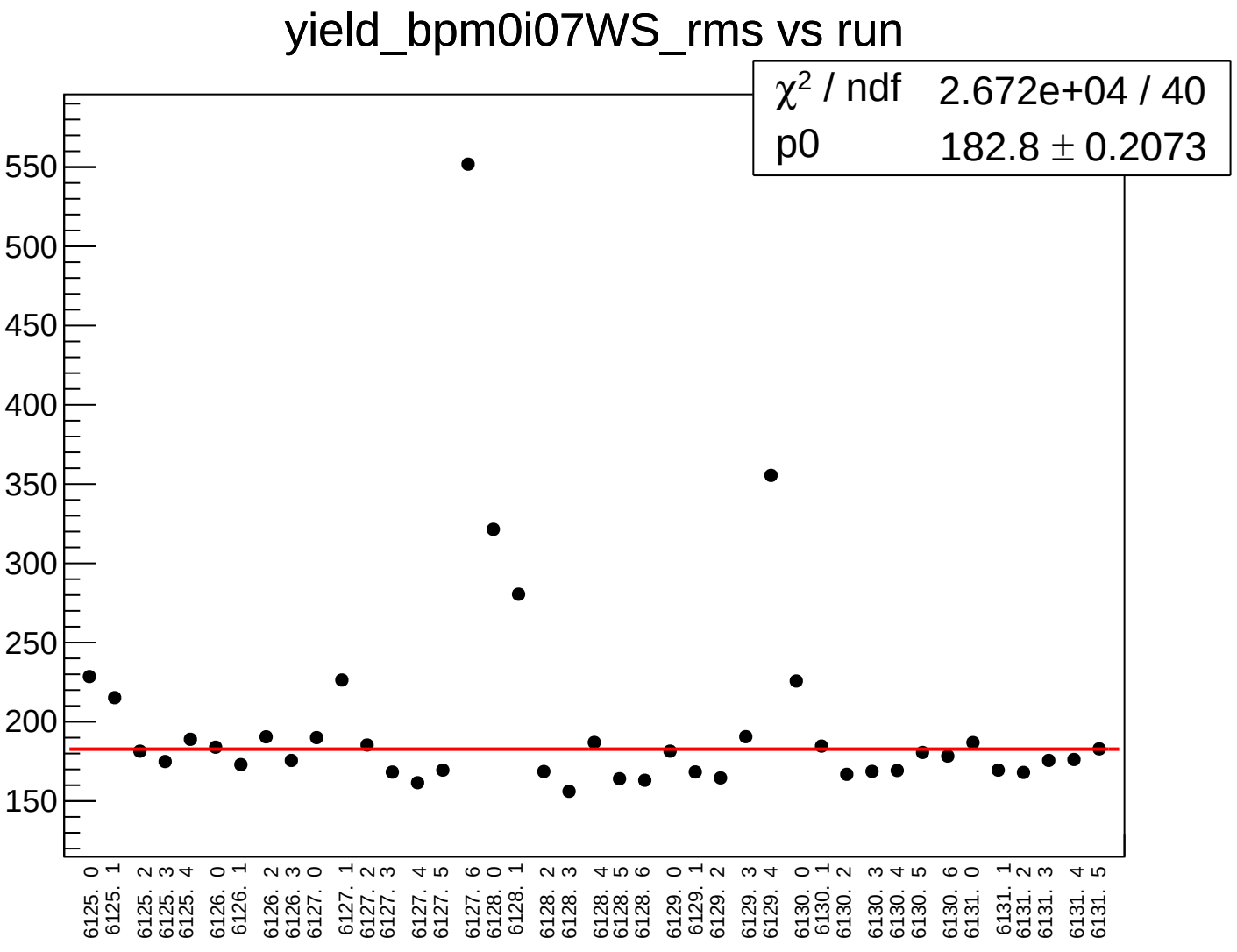

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 3.398e+04 / 40
p0 1.438e+05 ± 0.2703
143.95
143.9
143.85
143.8
143.75
143.7
143.65
143.6
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 153.1
Std Dev 0
60
40
20
0
−20
−40
−60

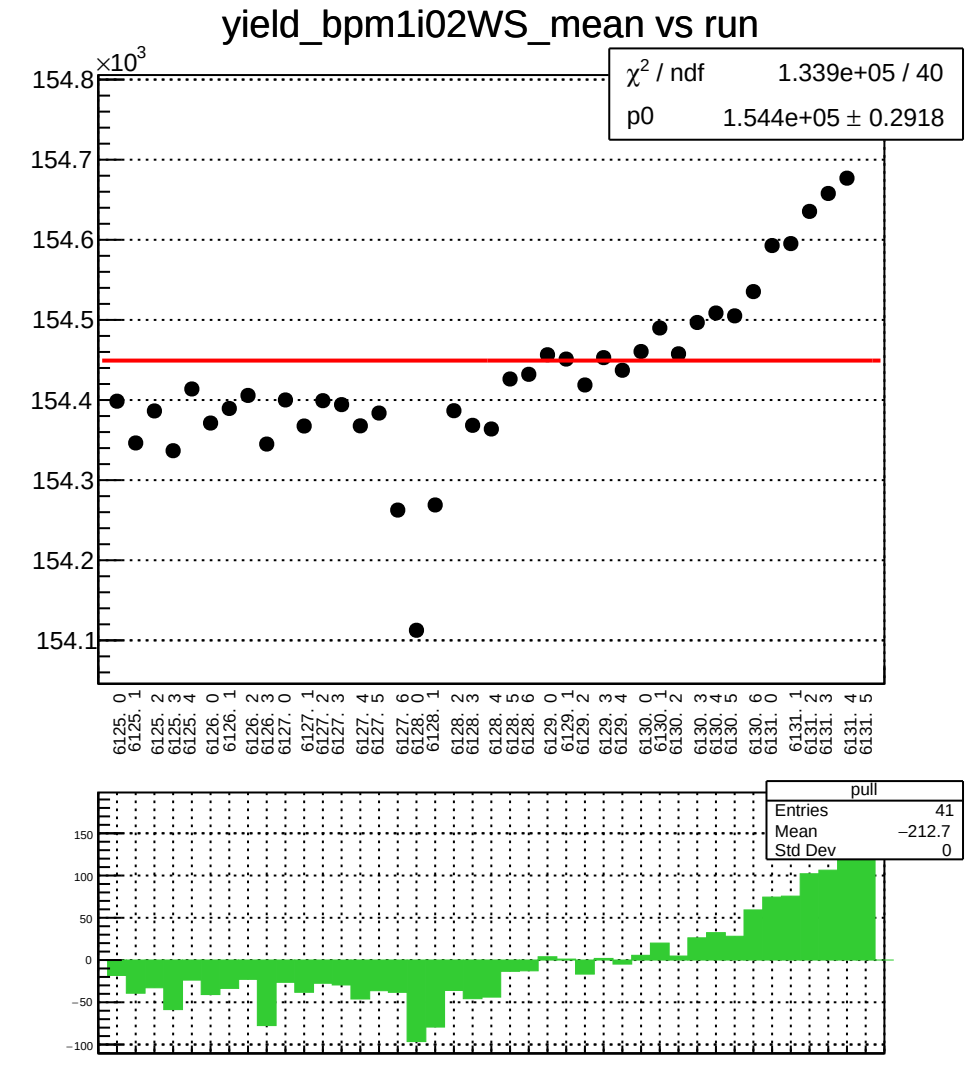

pull1D
Entries 41
Mean −3.868
Std Dev 3.151
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

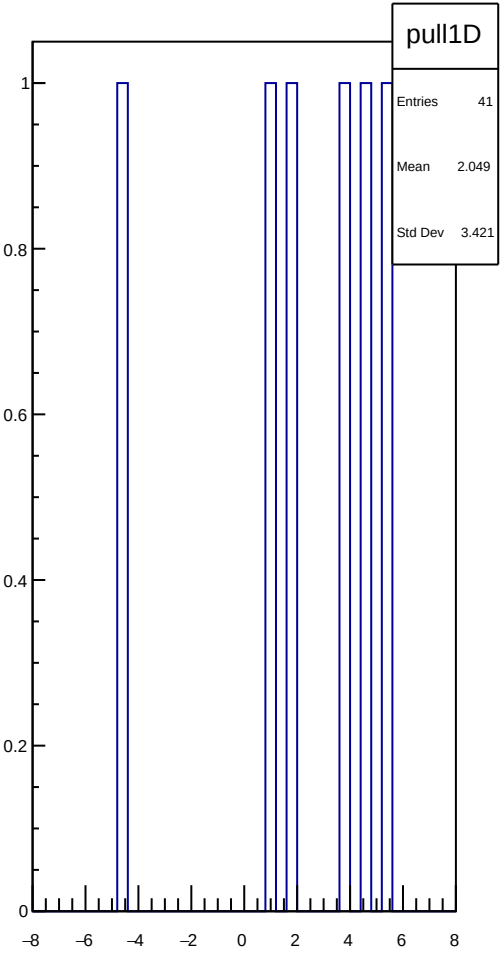

yield_bpm0i05WS_rms vs run
χ² / ndf 2.395e+04 / 40
p0 168.8 ± 0.1911
500
450
400
350
300
250
200
150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

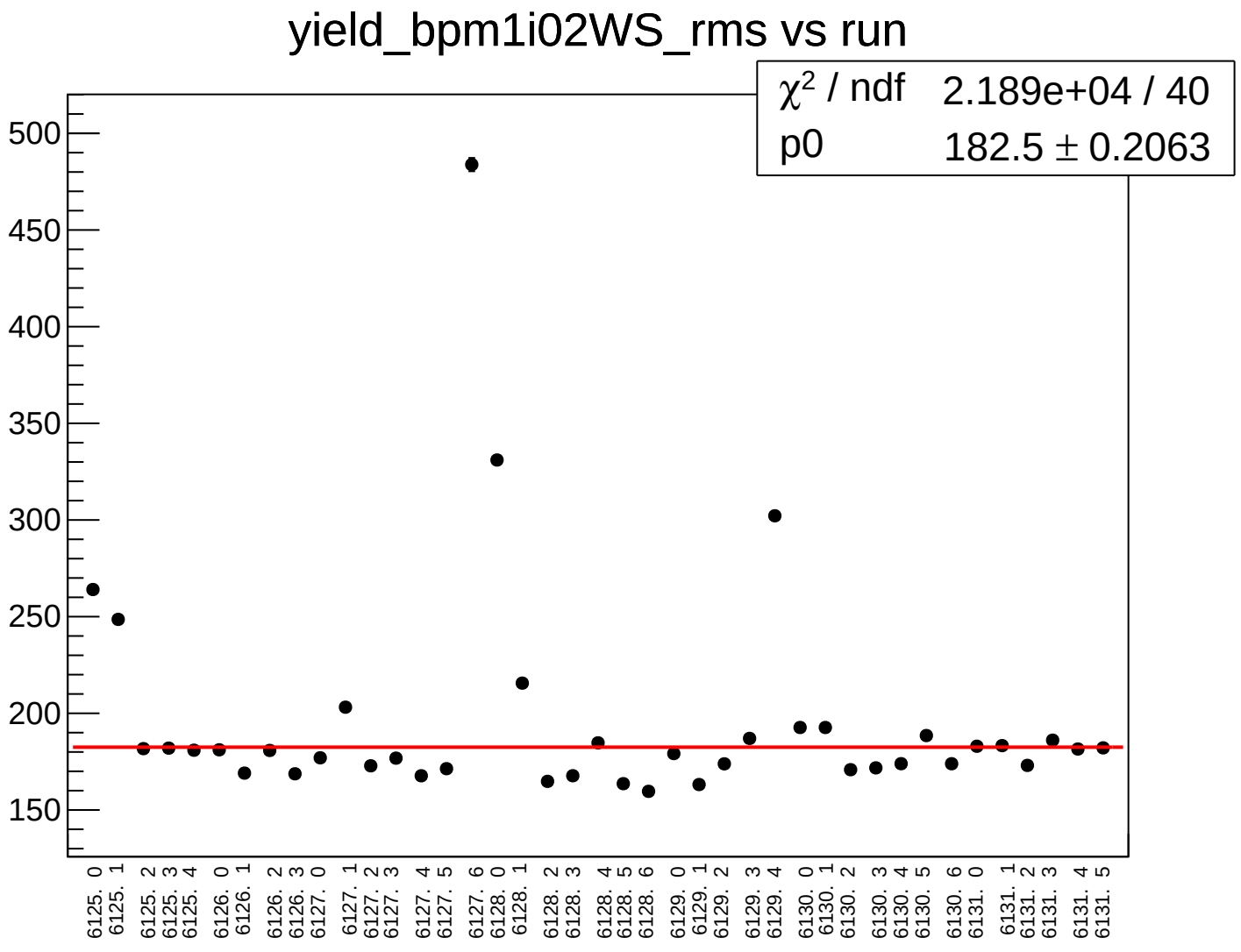

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 5.071e+04 / 40
p0 1.545e+05 ± 0.2931
154.65
154.6
154.55
154.5
154.45
154.4
154.35
154.3
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −8.481
Std Dev 26.48
60
40
20
0
−20
−40
−60
−80

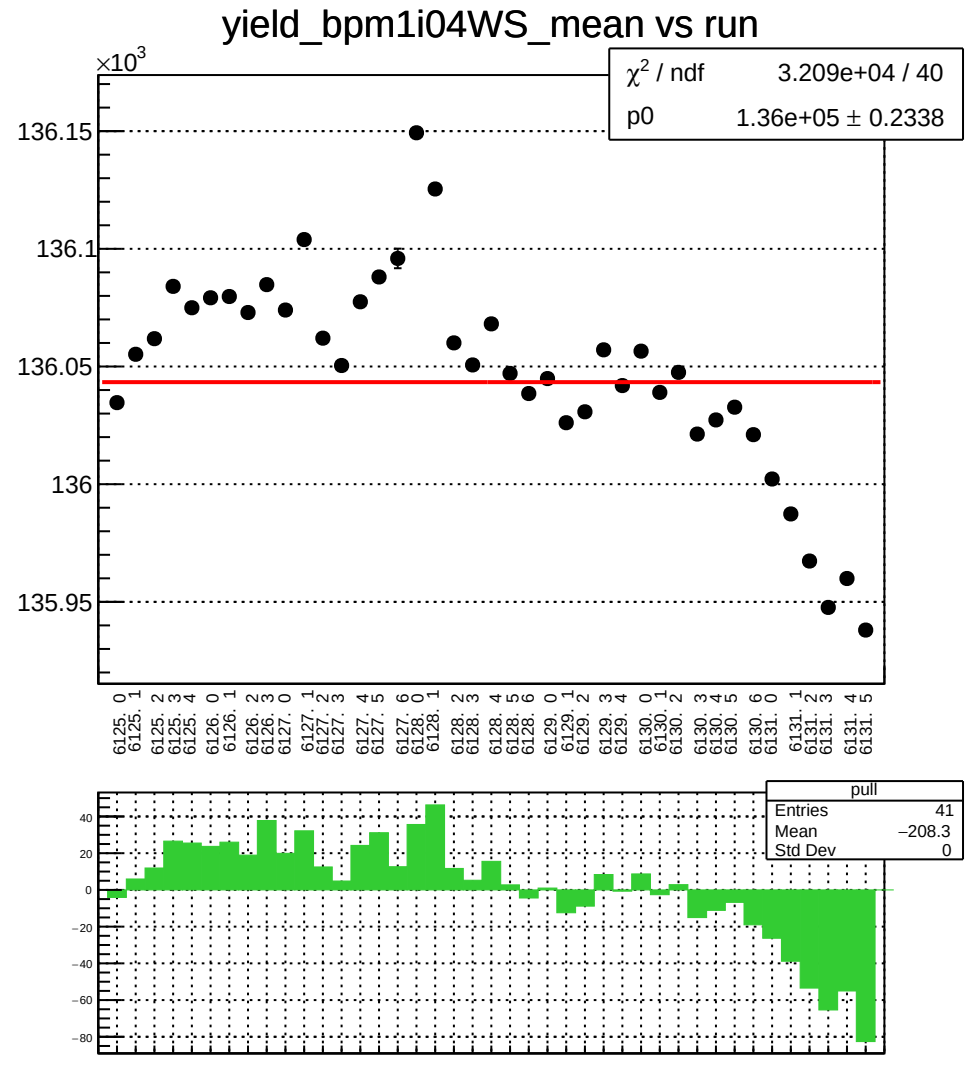

pull1D
Entries 41
Mean 0.6064
Std Dev 4.35
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

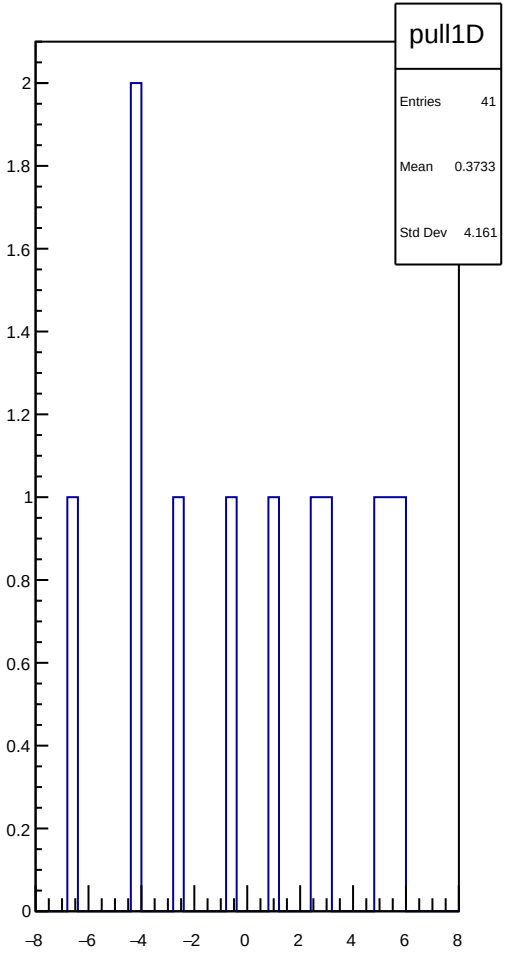

yield_bpm0i07WS_rms vs run
χ² / ndf 2.672e+04 / 40
p0 182.8 ± 0.2073
550
500
450
400
350
300
250
200
150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

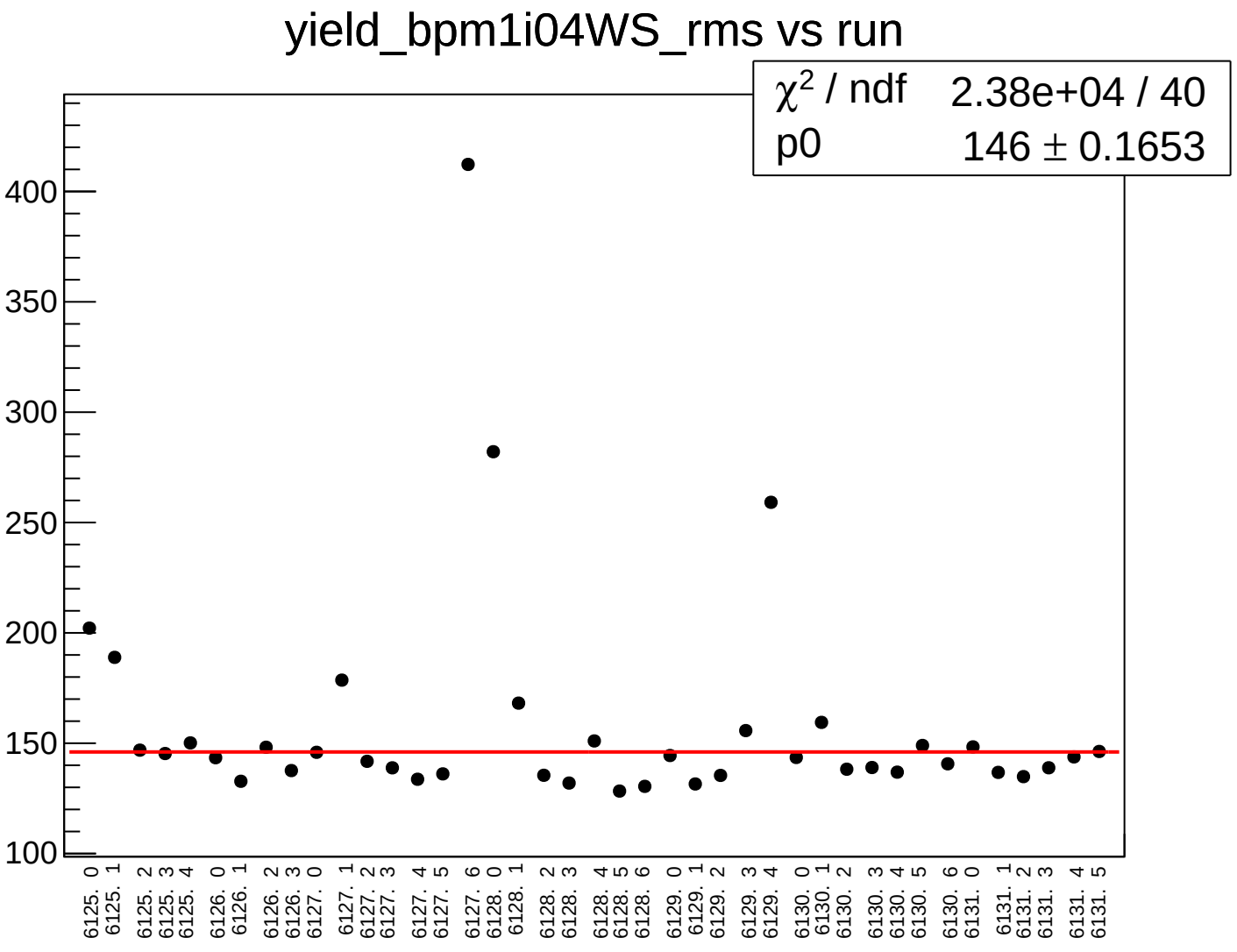

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 1.339e+05 / 40
p0 1.544e+05 ± 0.2918
154.8
154.7
154.6
154.5
154.4
154.3
154.2
154.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −212.7
Std Dev 0
150
100
50
0
−50
−100

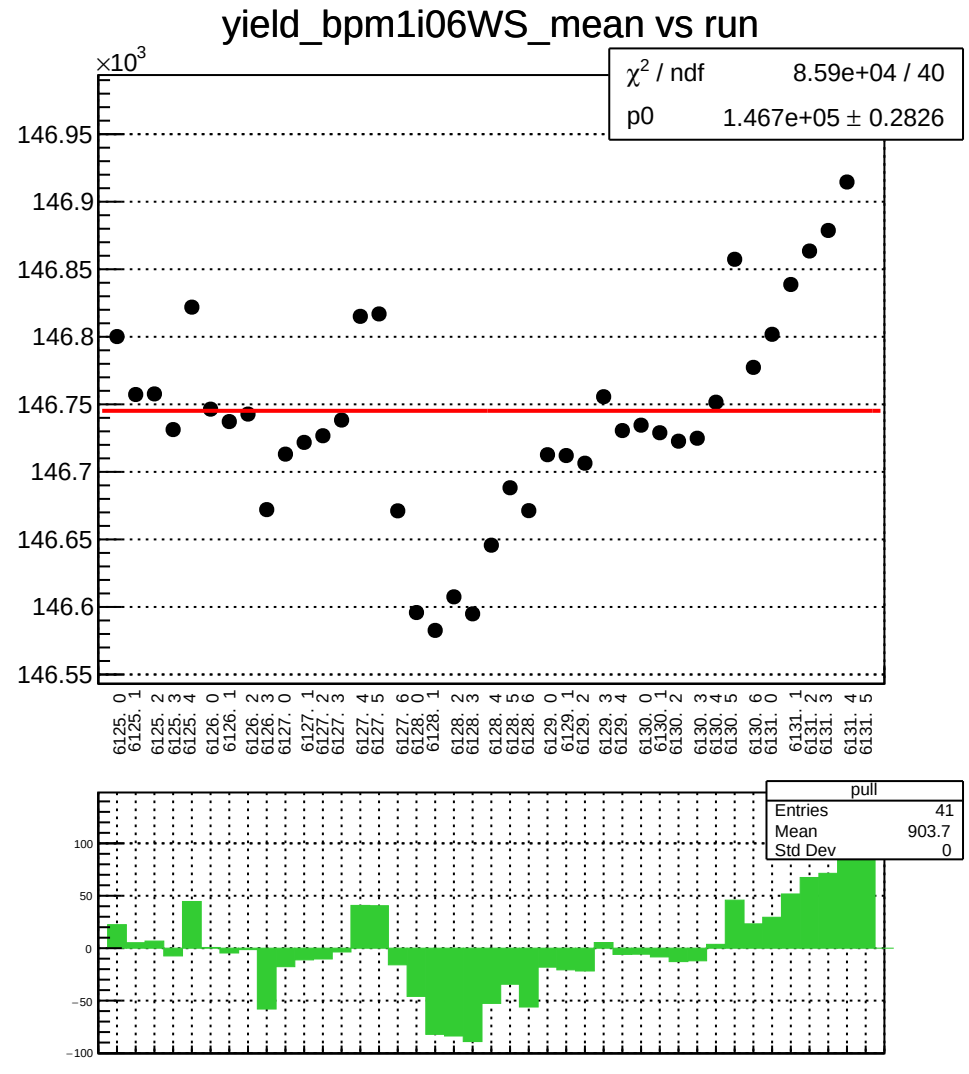

pull1D
Entries 41
Mean 2.049
Std Dev 3.421
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

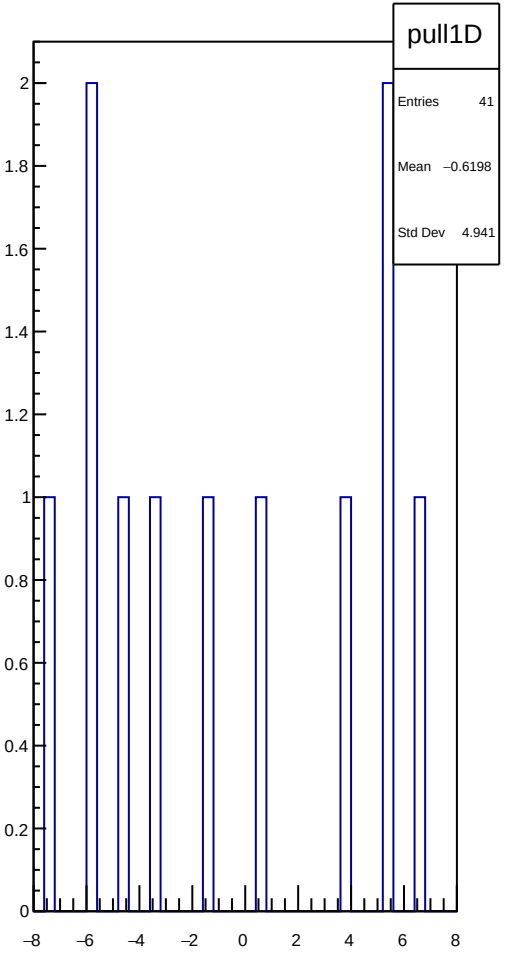

yield_bpm1i02WS_rms vs run
χ² / ndf 2.189e+04 / 40
p0 182.5 ± 0.2063
500
450
400
350
300
250
200
150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

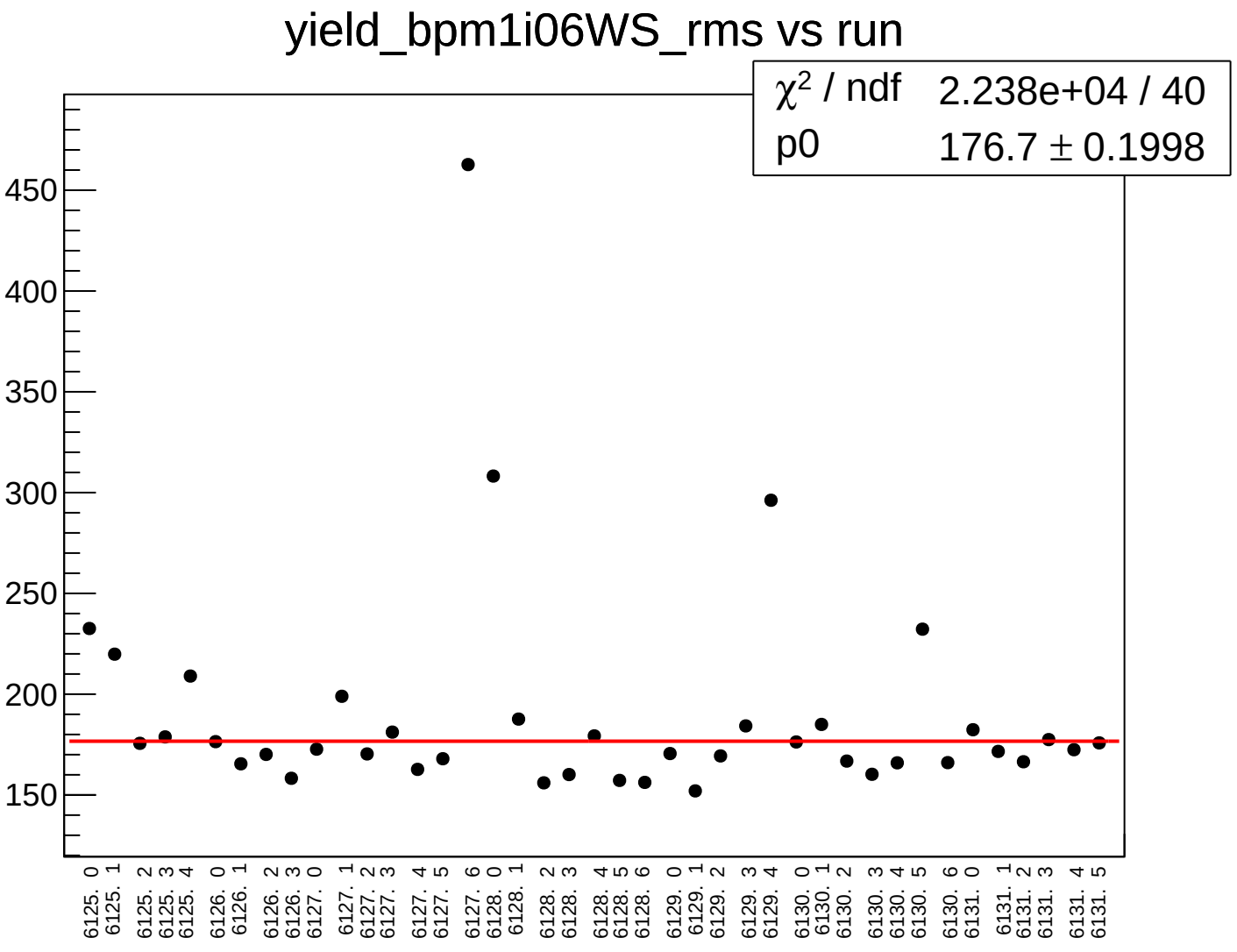

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 3.209e+04 / 40
p0 1.36e+05 ± 0.2338
136.15
136.1
136.05
136
135.95
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −208.3
Std Dev 0
40
20
0
−20
−40
−60
−80

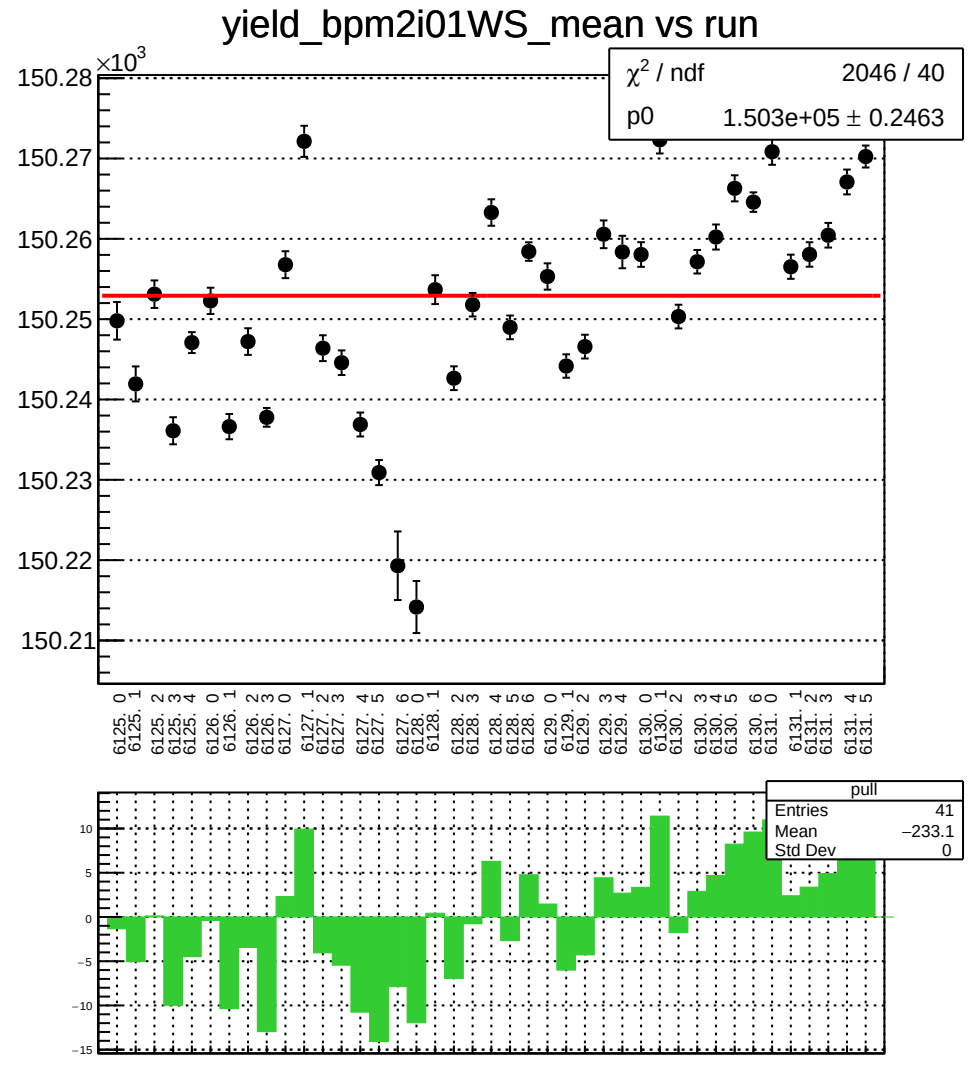

pull1D
Entries 41
Mean 0.3733
Std Dev 4.161
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

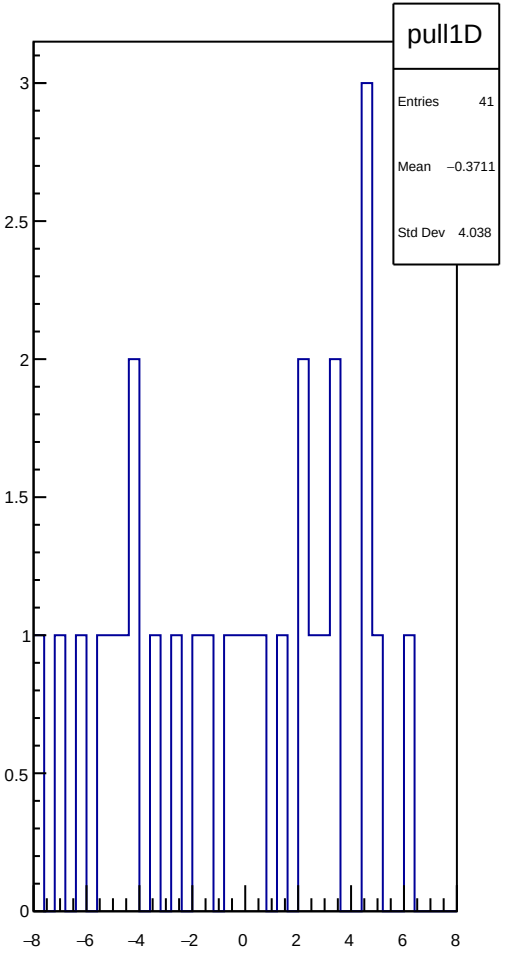

yield_bpm1i04WS_rms vs run
χ² / ndf 2.38e+04 / 40
p0 146 ± 0.1653
400
350
300
250
200
150
100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

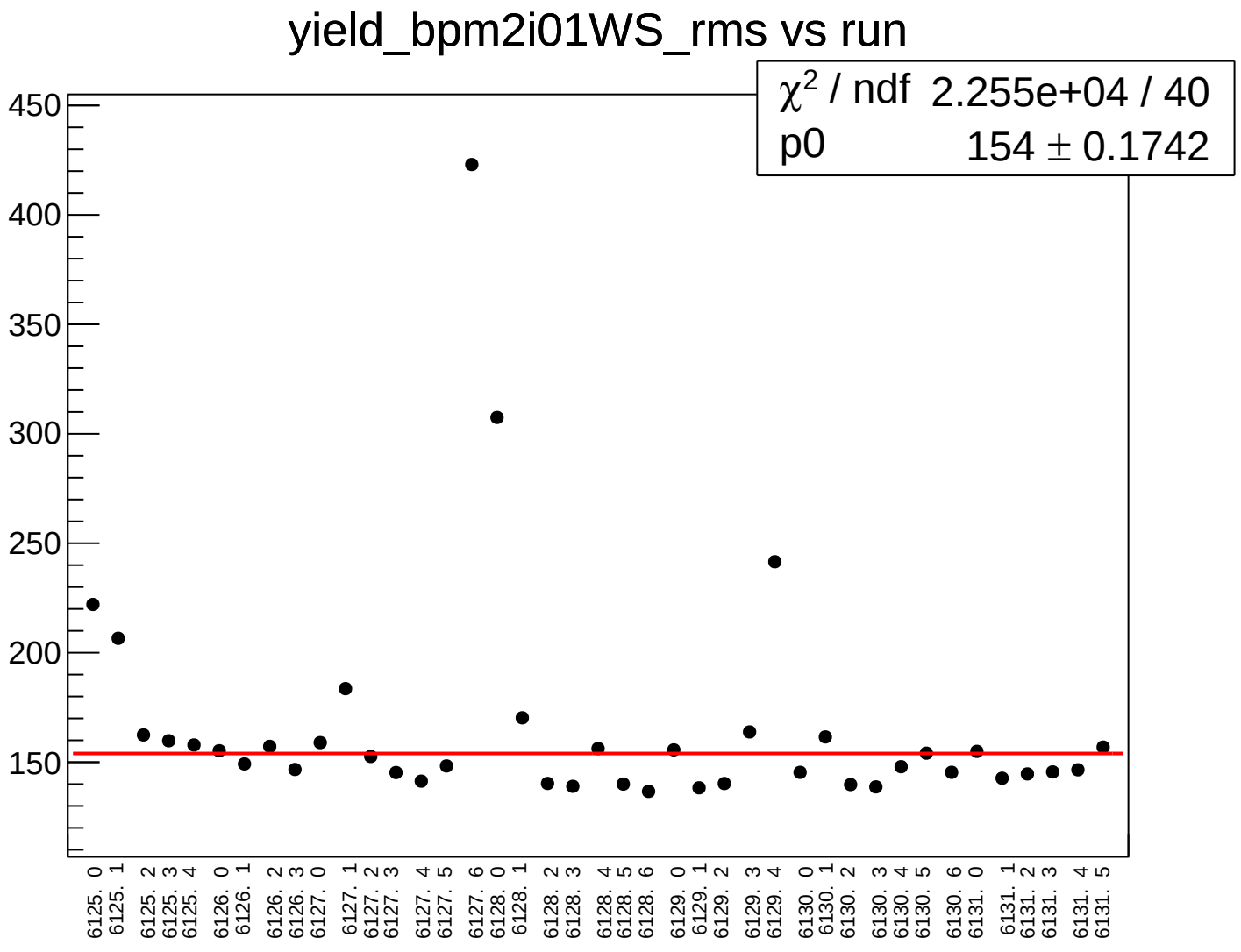

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 8.59e+04 / 40
p0 1.467e+05 ± 0.2826
146.95
146.9
146.85
146.8
146.75
146.7
146.65
146.6
146.55
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 903.7
Std Dev 0
100
50
0
−50
−100

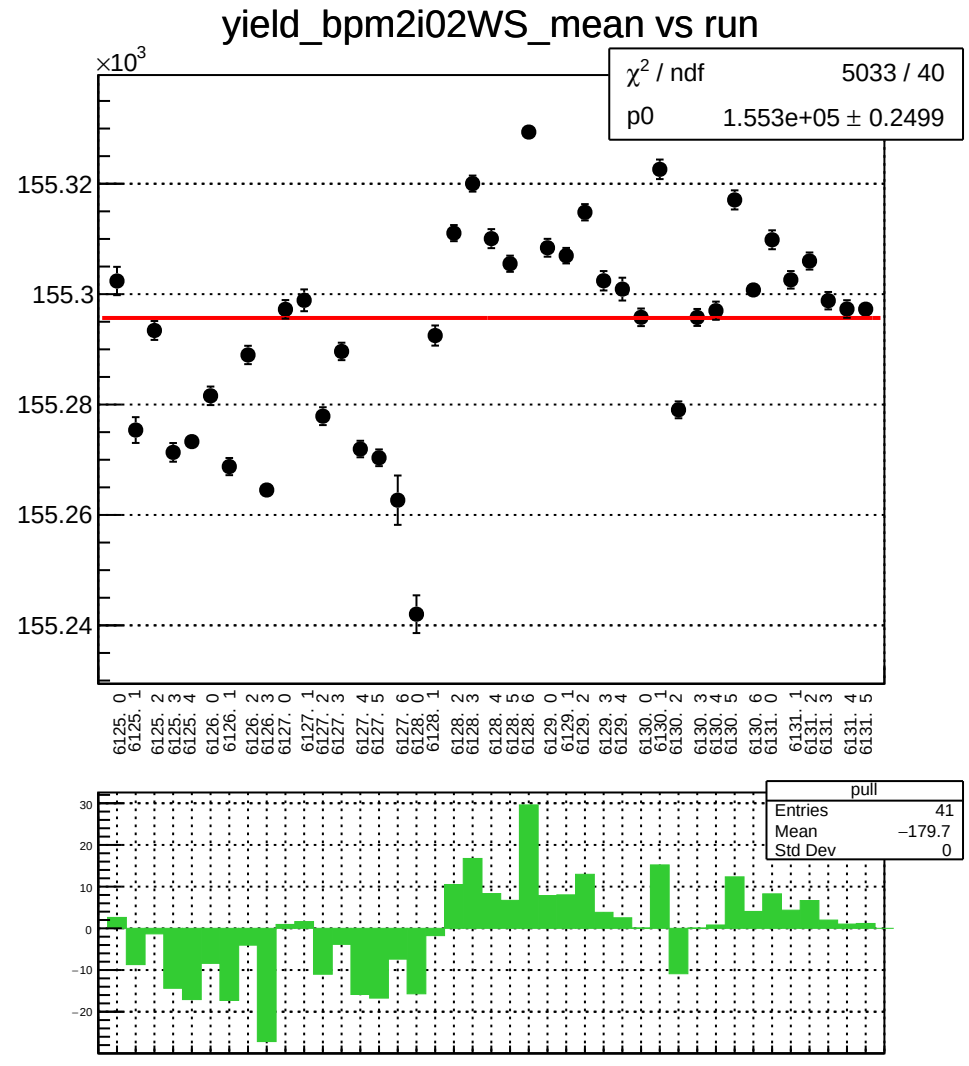

pull1D
Entries 41
Mean −0.6198
Std Dev 4.941
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

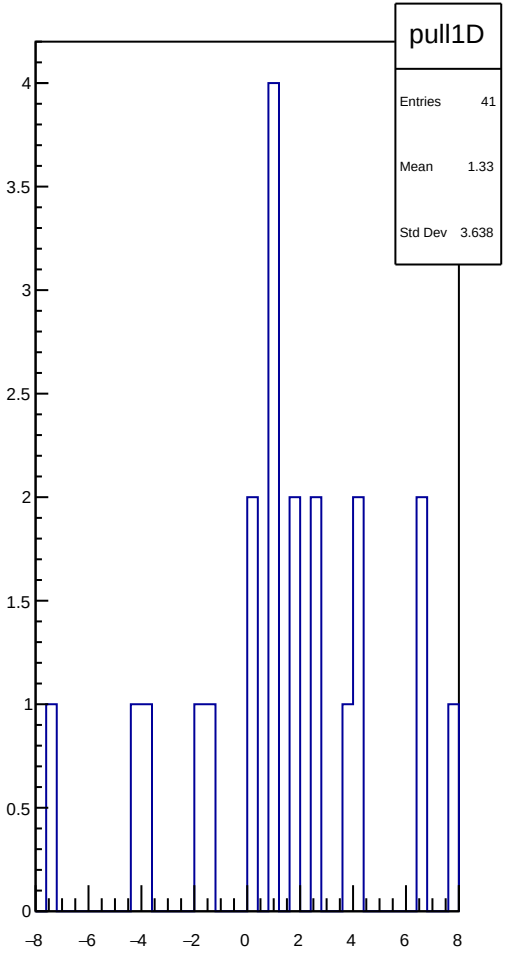

yield_bpm1i06WS_rms vs run
χ² / ndf 2.238e+04 / 40
p0 176.7 ± 0.1998
450
400
350
300
250
200
150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

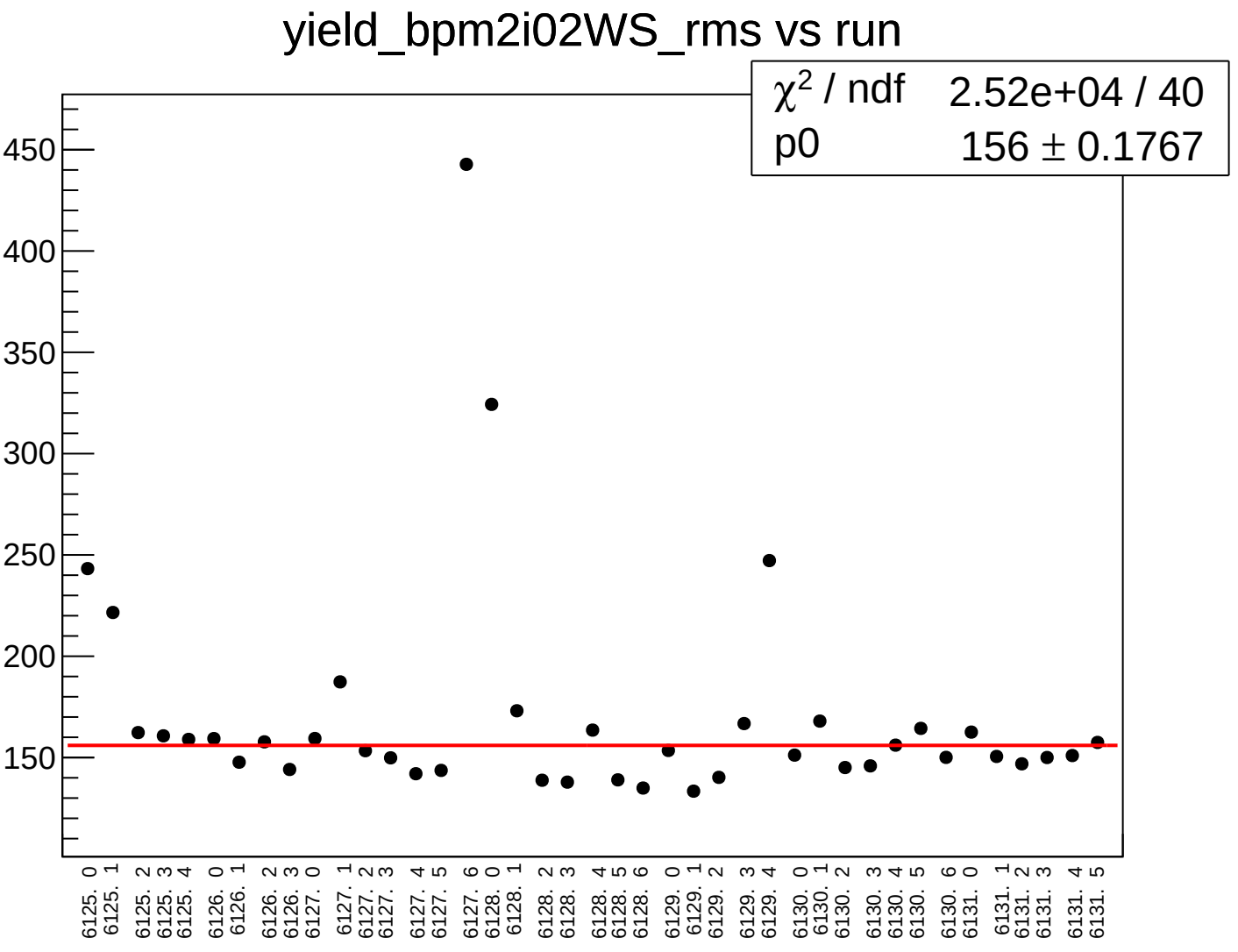

yield_bpm2i01WS_mean vs run
×10^3
150.28
150.27
150.26
150.25
150.24
150.23
150.22
150.21
χ² / ndf 2046 / 40
p0 1.503e+05 ± 0.2463
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −233.1
Std Dev 0
10
5
0
−5
−10
−15

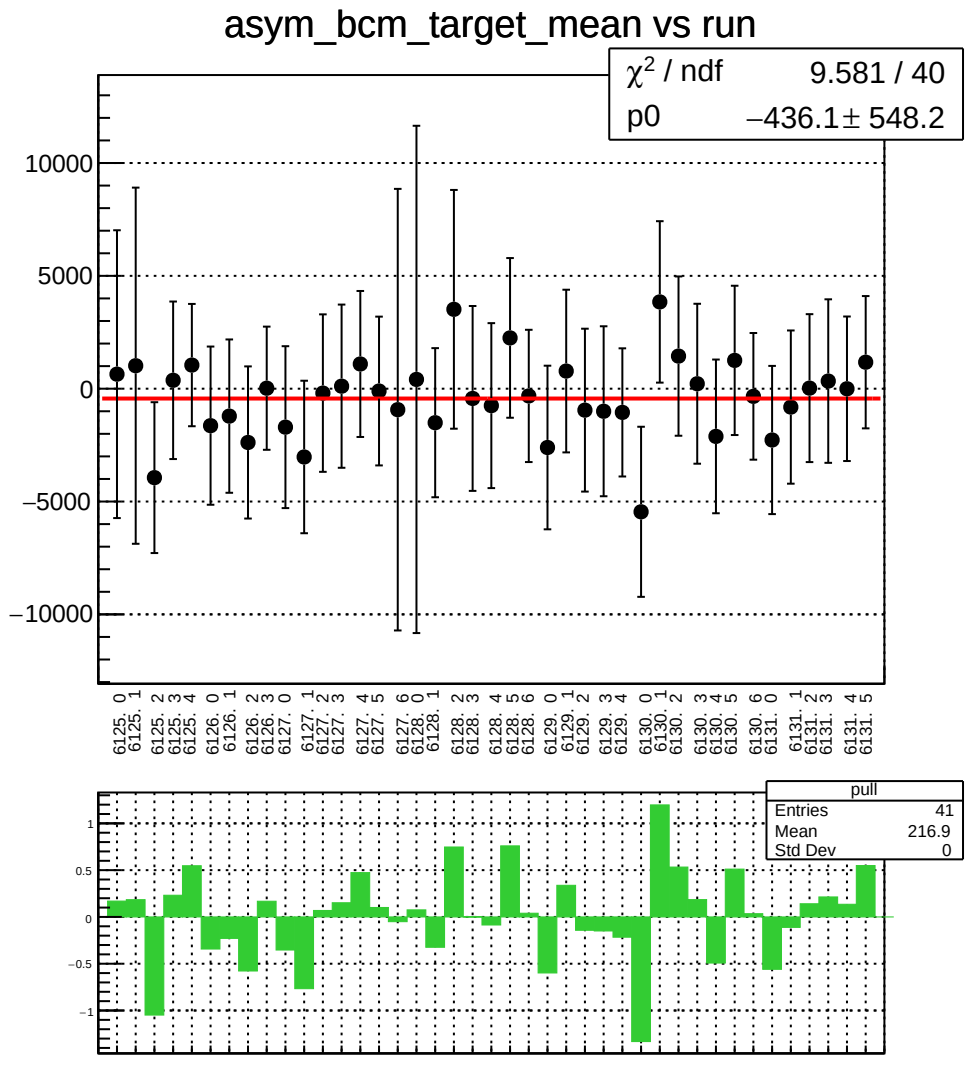

pull1D
Entries 41
Mean −0.3711
Std Dev 4.038
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

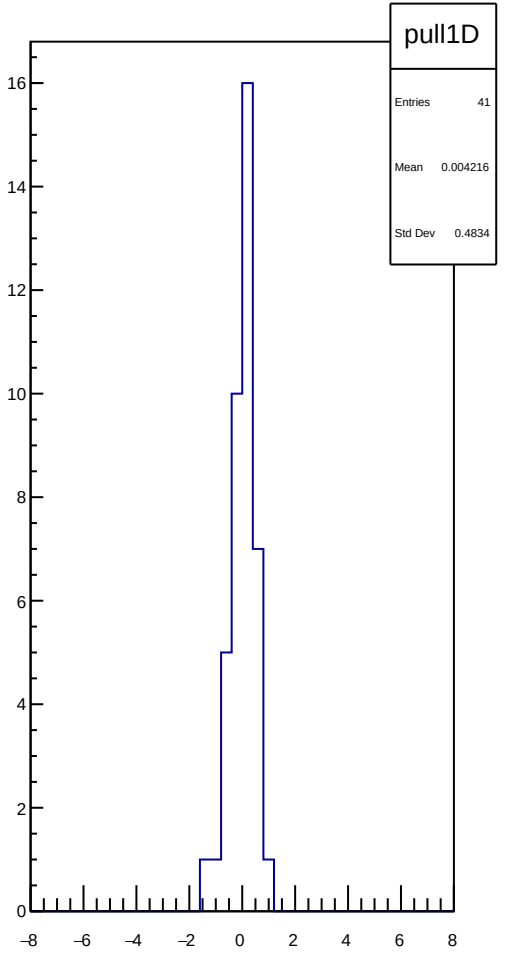

yield_bpm2i01WS_rms vs run
χ² / ndf 2.255e+04 / 40
p0 154 ± 0.1742
450
400
350
300
250
200
150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

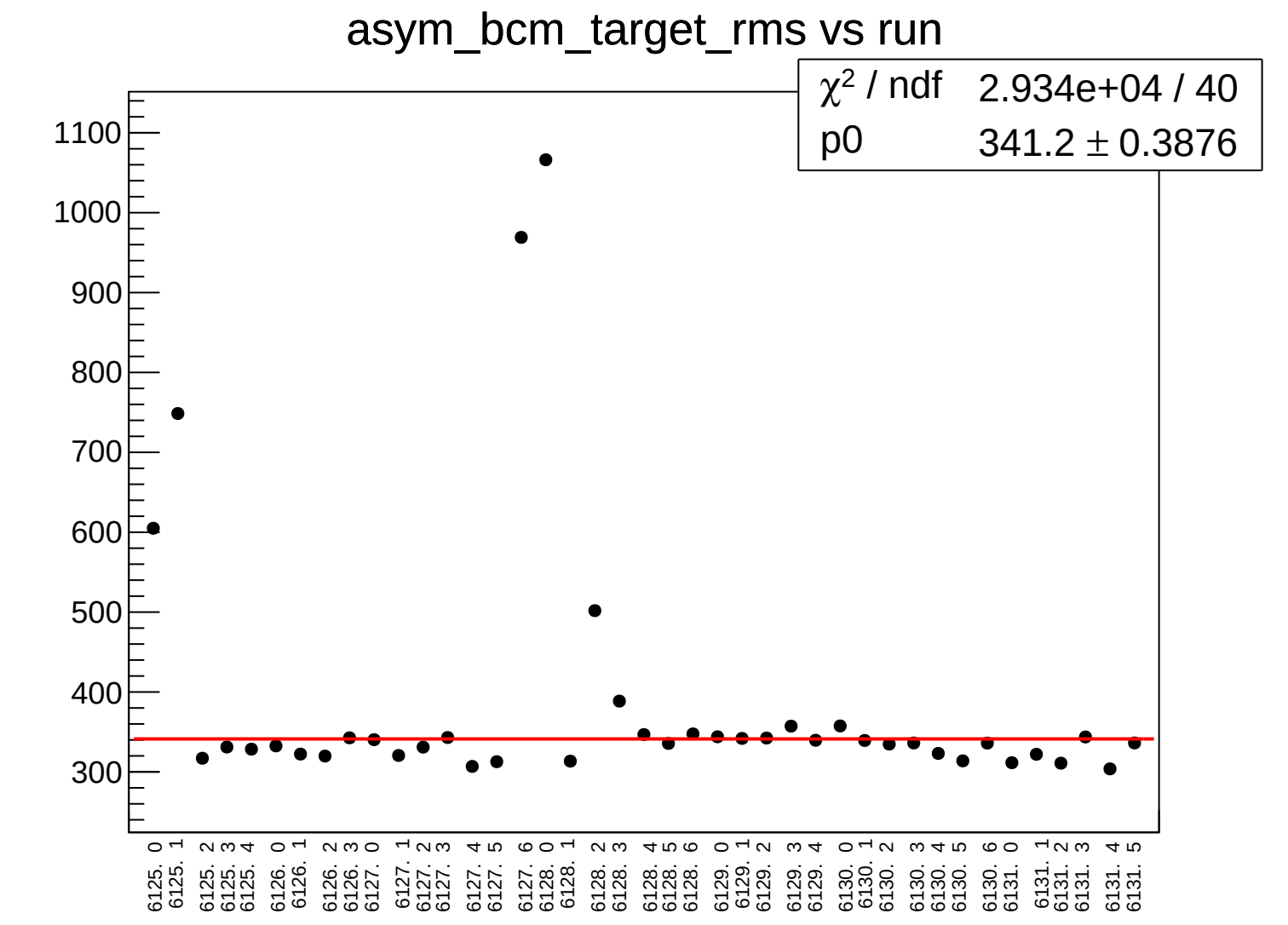

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 5033 / 40
p0 1.553e+05 ± 0.2499
155.32
155.3
155.28
155.26
155.24
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −179.7
Std Dev 0
30
20
10
0
−10
−20

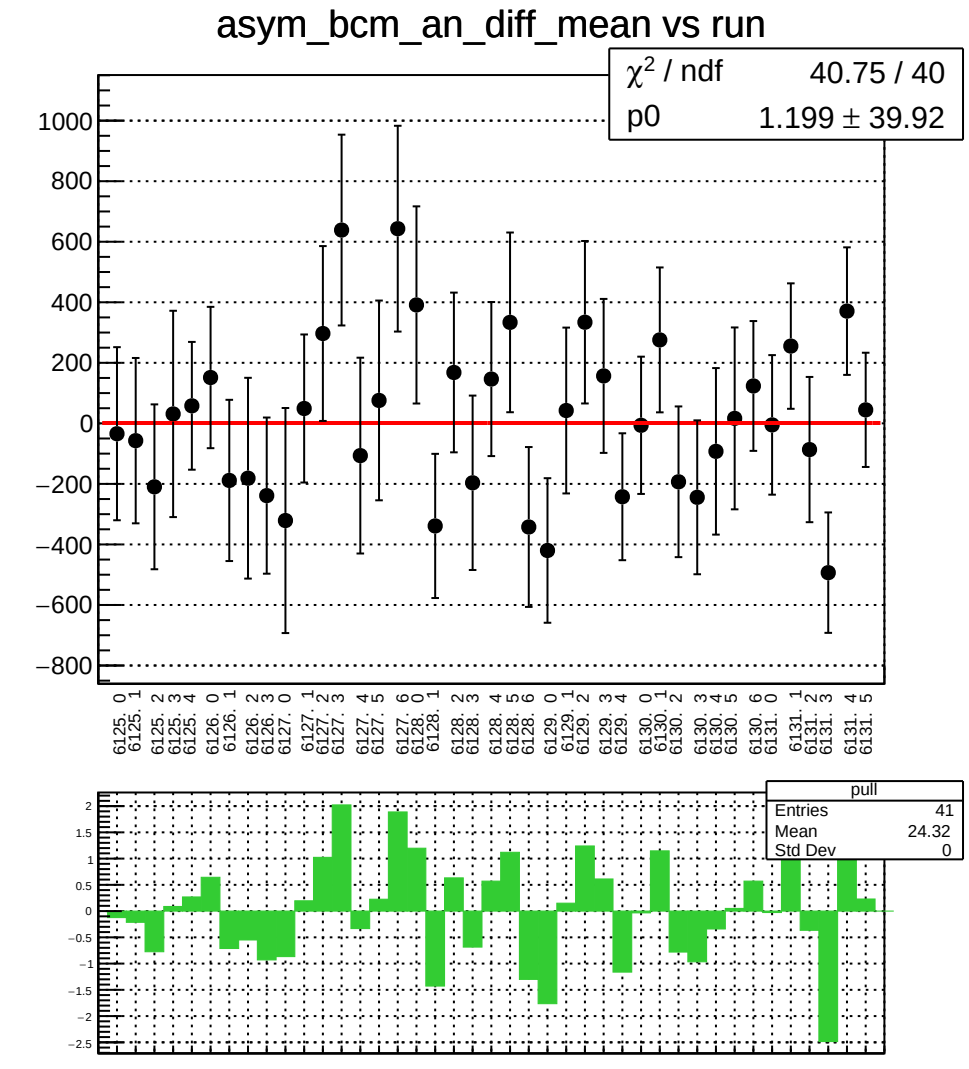

pull1D
Entries 41
Mean 1.33
Std Dev 3.638
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

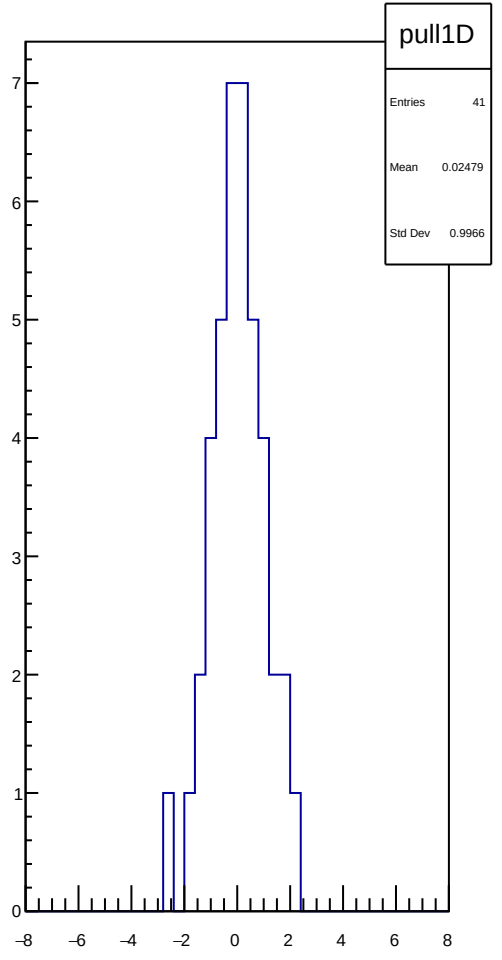

yield_bpm2i02WS_rms vs run
χ² / ndf 2.52e+04 / 40
p0 156 ± 0.1767
450
400
350
300
250
200
150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

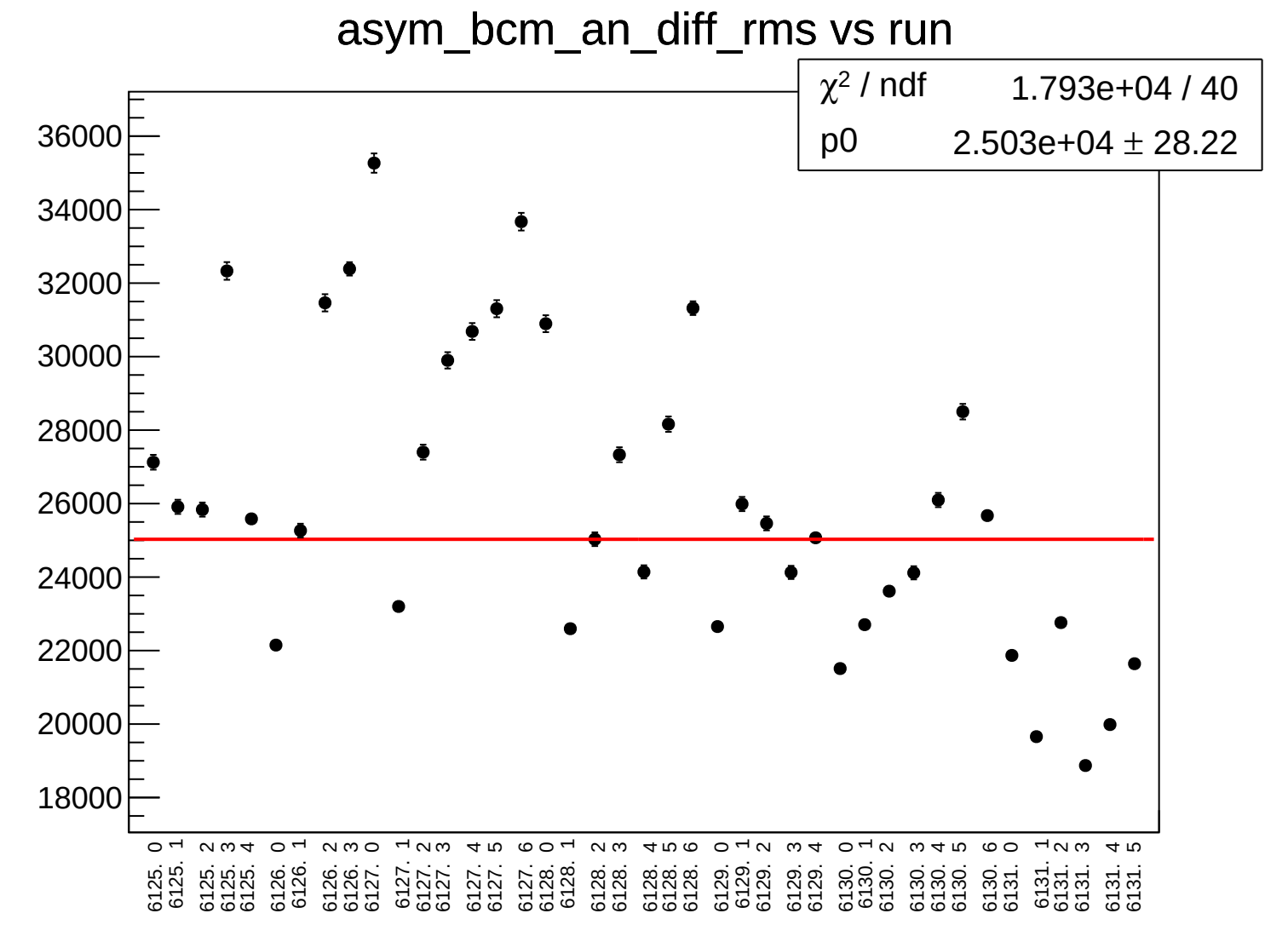

asym_bcm_target_mean vs run
χ² / ndf 9.581 / 40
p0 −436.1 ± 548.2
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 216.9
Std Dev 0
1
0.5
0
−0.5
−1

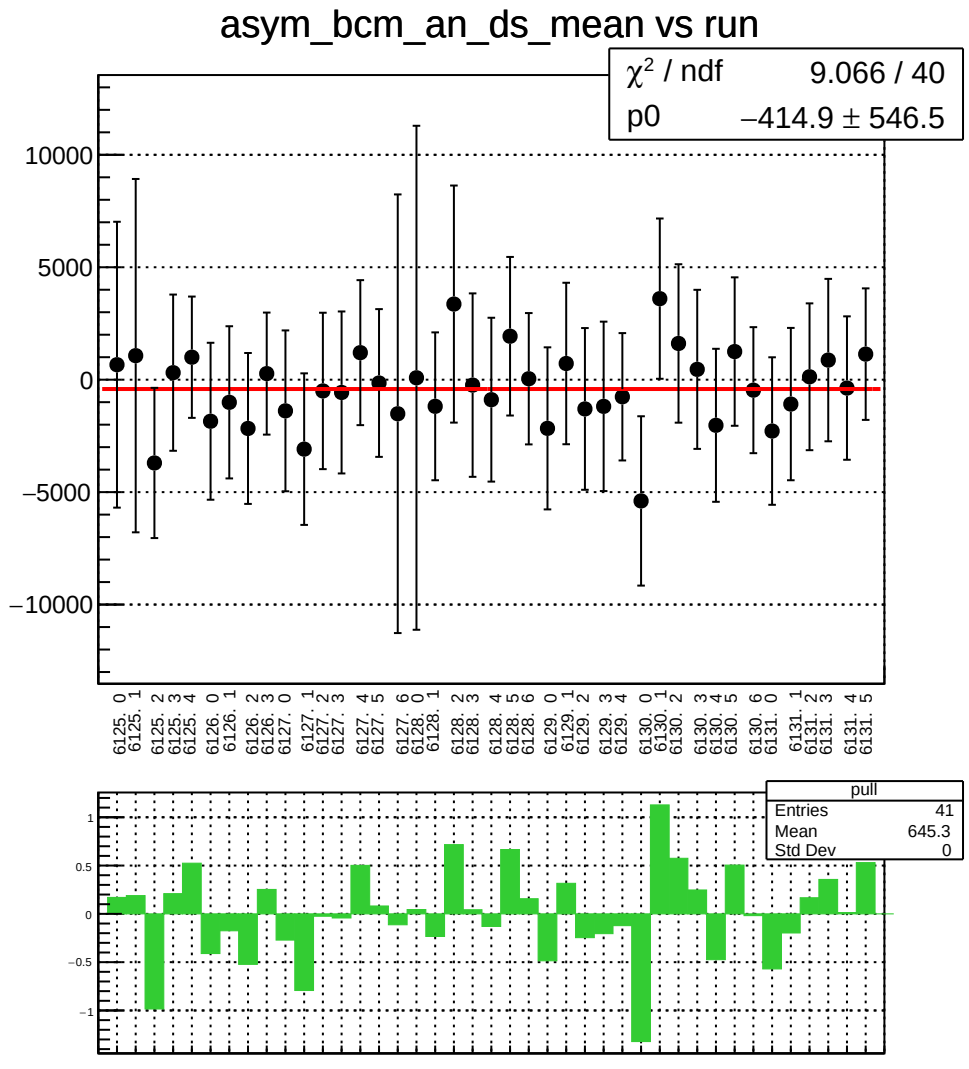

pull1D
Entries 41
Mean 0.004216
Std Dev 0.4834
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

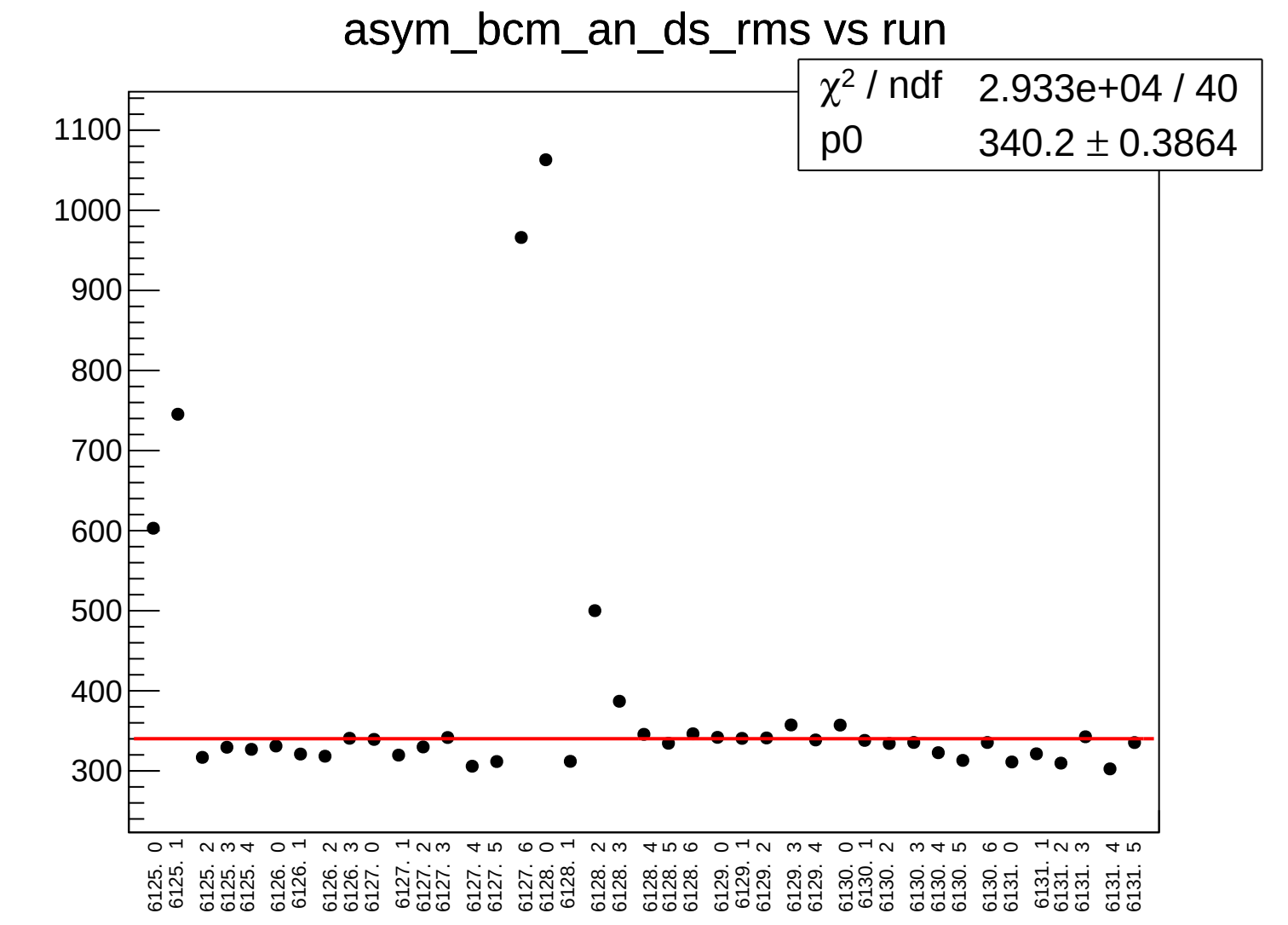

asym_bcm_target_rms vs run
χ² / ndf 2.934e+04 / 40
p0 341.2 ± 0.3876
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

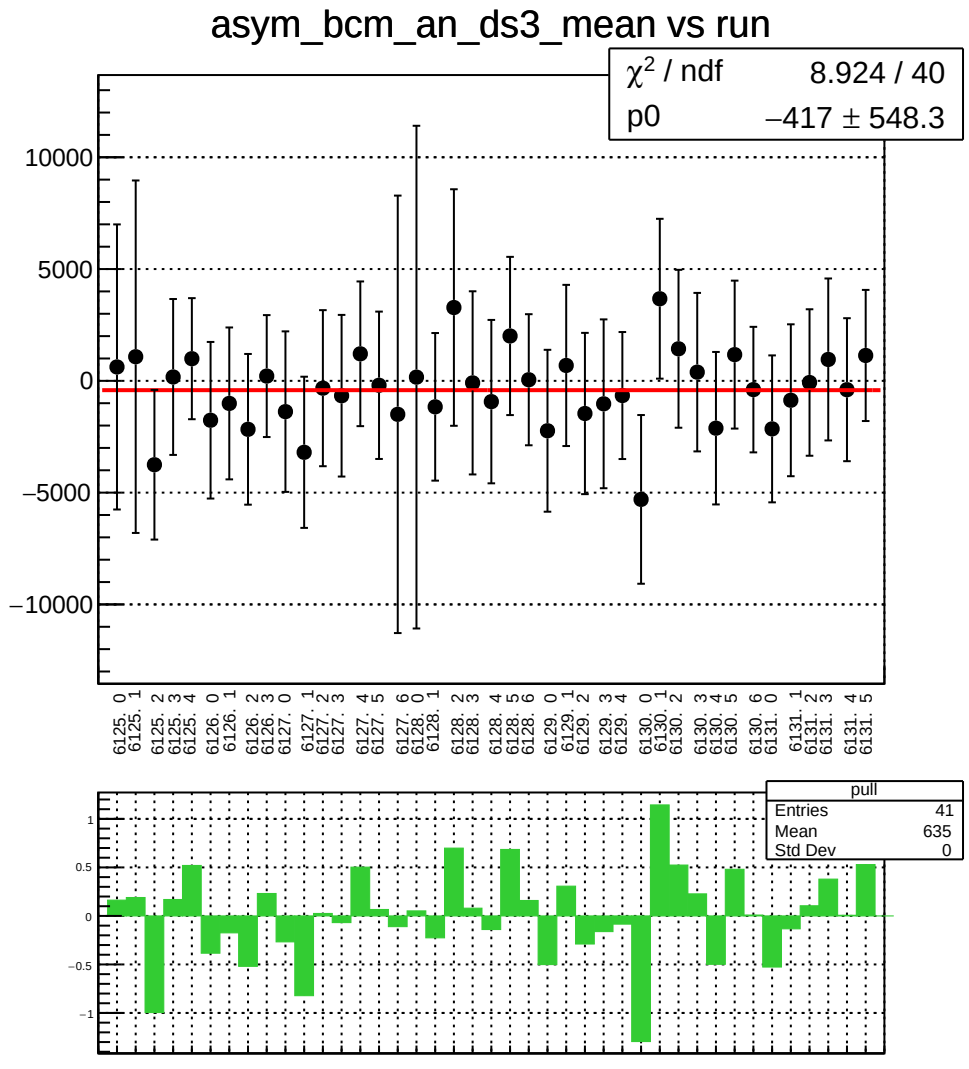

asym_bcm_an_diff_mean vs run
χ² / ndf 40.75 / 40
p0 1.199 ± 39.92
pull
Entries 41
Mean 24.32
Std Dev 0

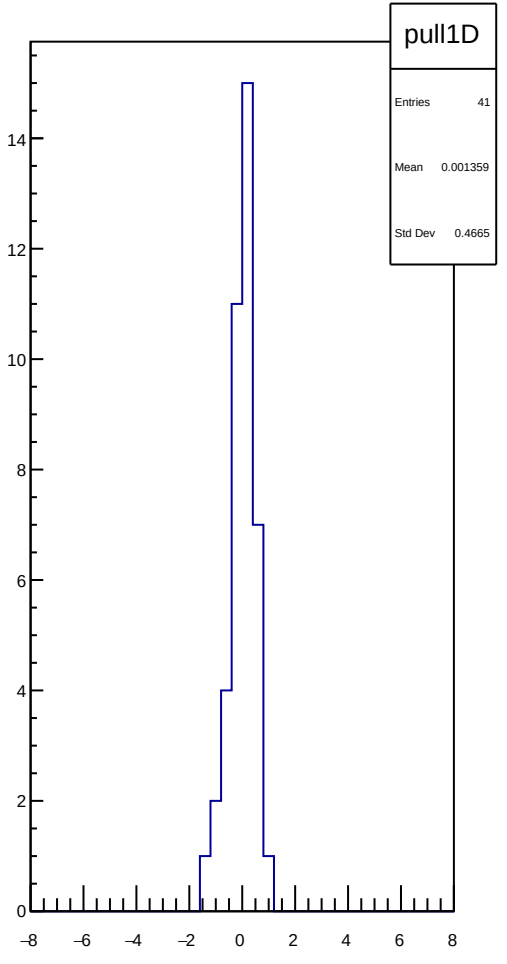

pull1D
Entries 41
Mean 0.02479
Std Dev 0.9966

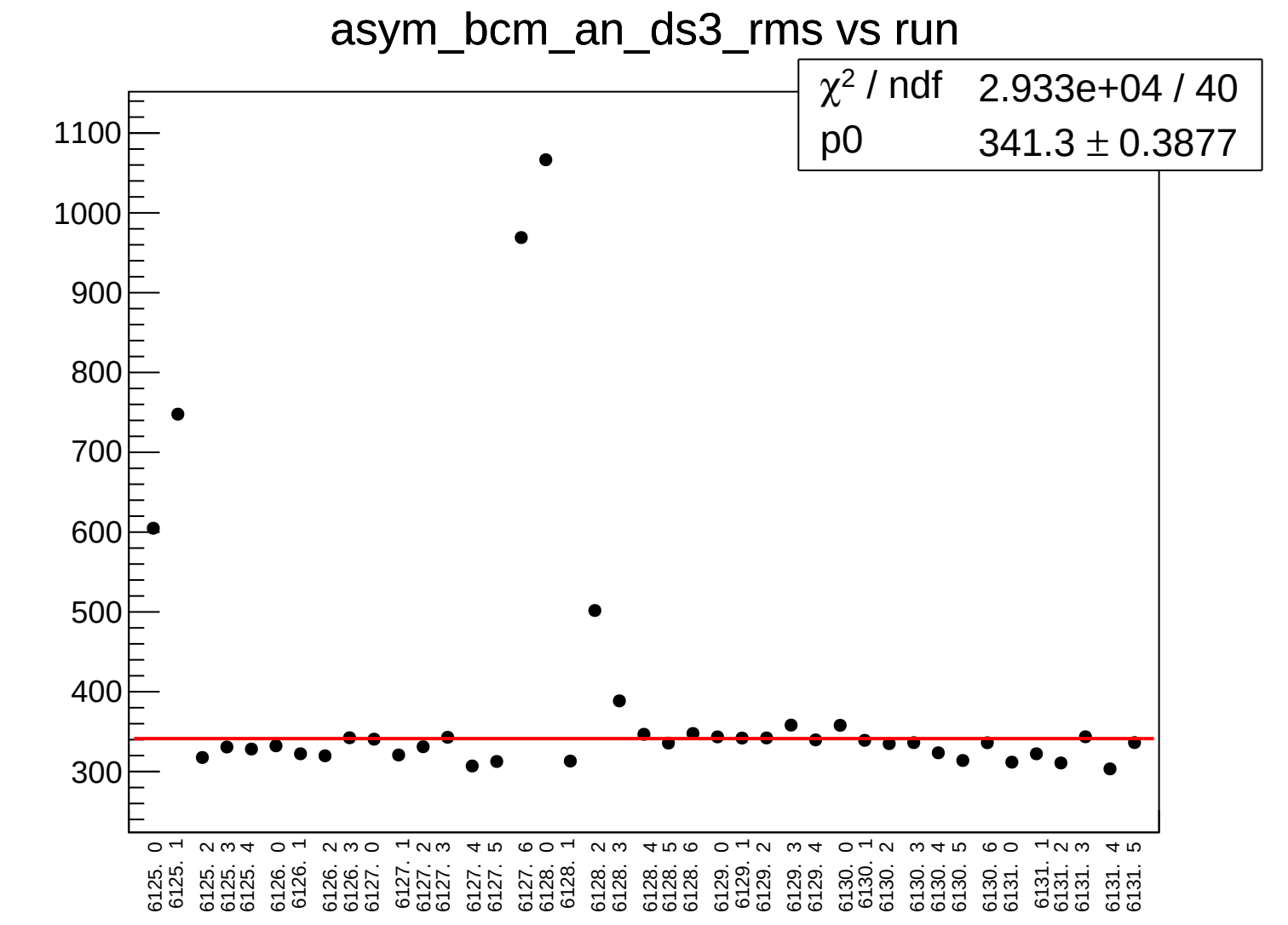

asym_bcm_an_diff_rms vs run
χ² / ndf 1.793e+04 / 40
p0 2.503e+04 ± 28.22
36000
34000
32000
30000
28000
26000
24000
22000
20000
18000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

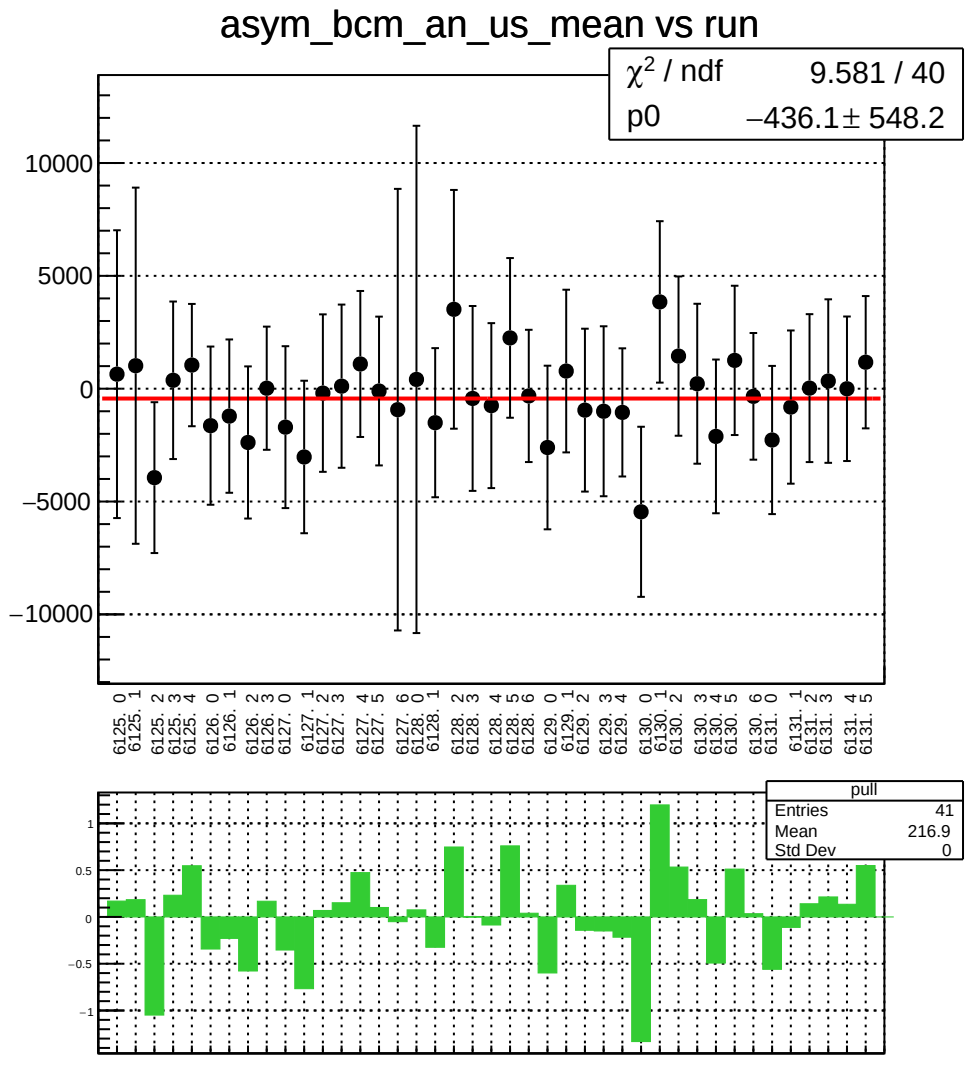

asym_bcm_an_ds_mean vs run
χ² / ndf 9.066 / 40
p0 −414.9 ± 546.5
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 645.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.00128
Std Dev 0.4702
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

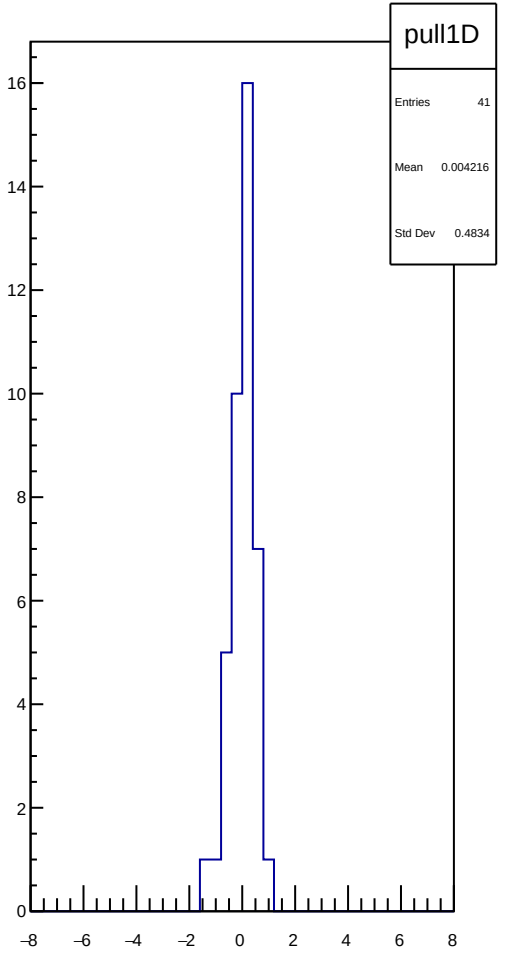

asym_bcm_an_ds_rms vs run
χ² / ndf 2.933e+04 / 40
p0 340.2 ± 0.3864
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

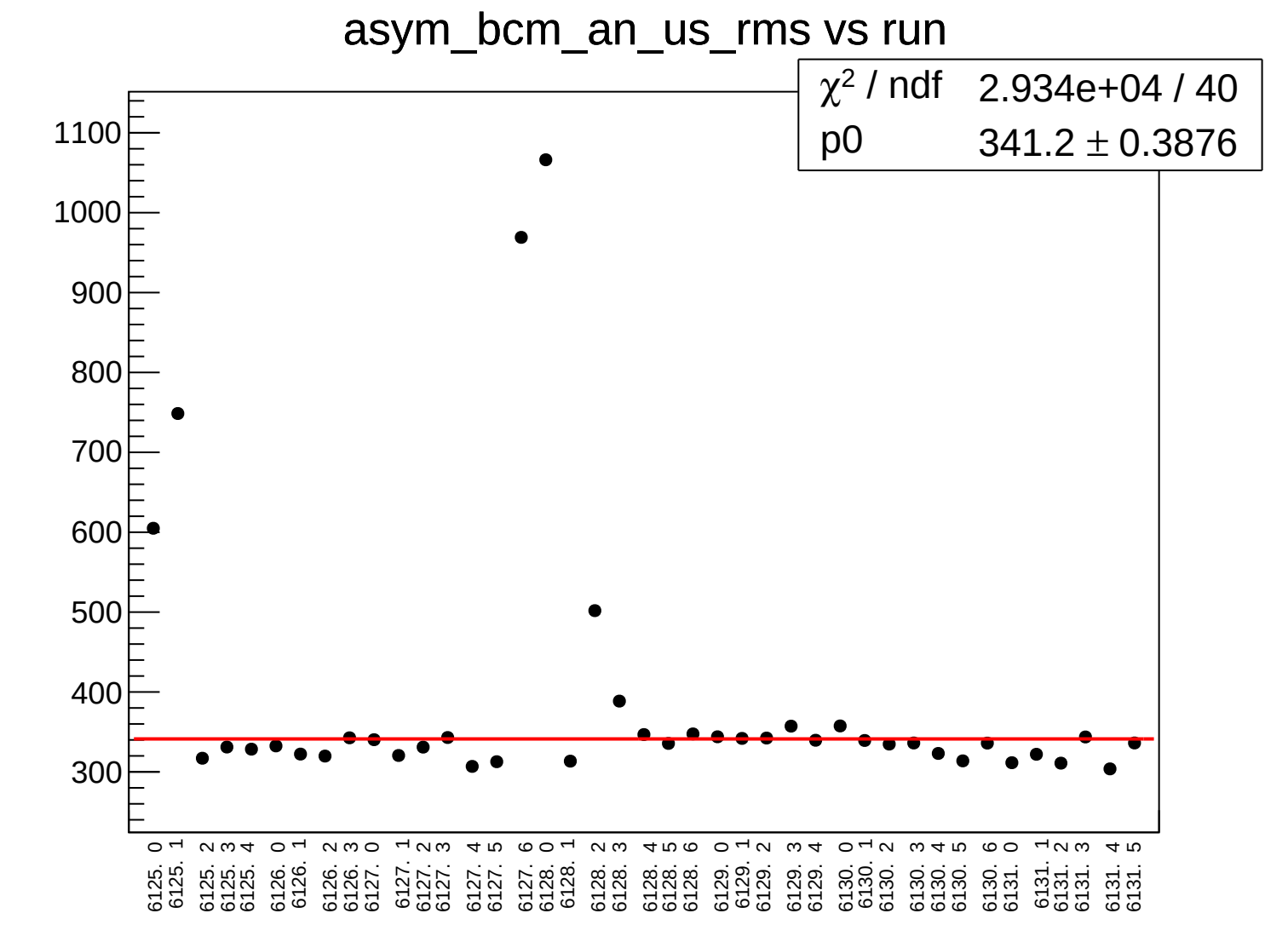

asym_bcm_an_ds3_mean vs run
χ² / ndf 8.924 / 40
p0 −417 ± 548.3
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 635
Std Dev 0
1
0.5
0
−0.5
−1

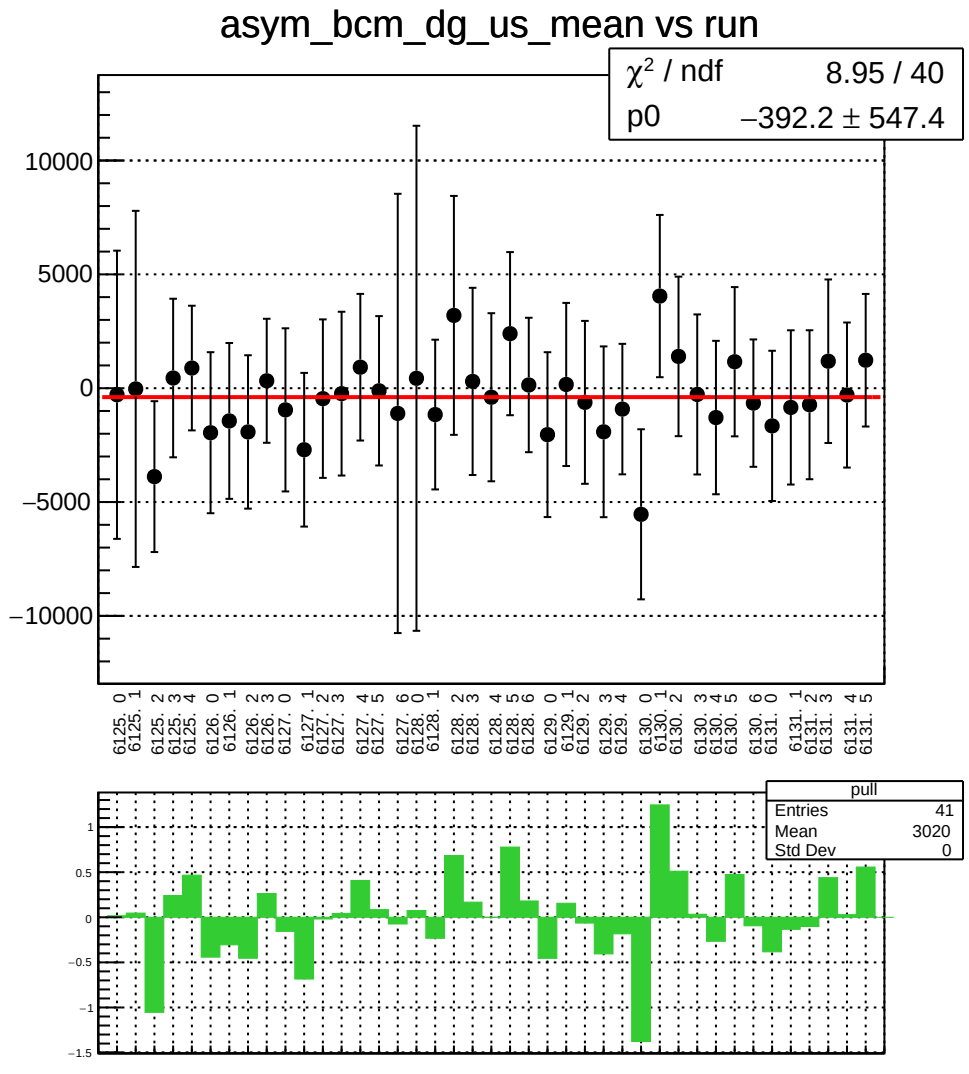

pull1D
Entries 41
Mean 0.001359
Std Dev 0.4665
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

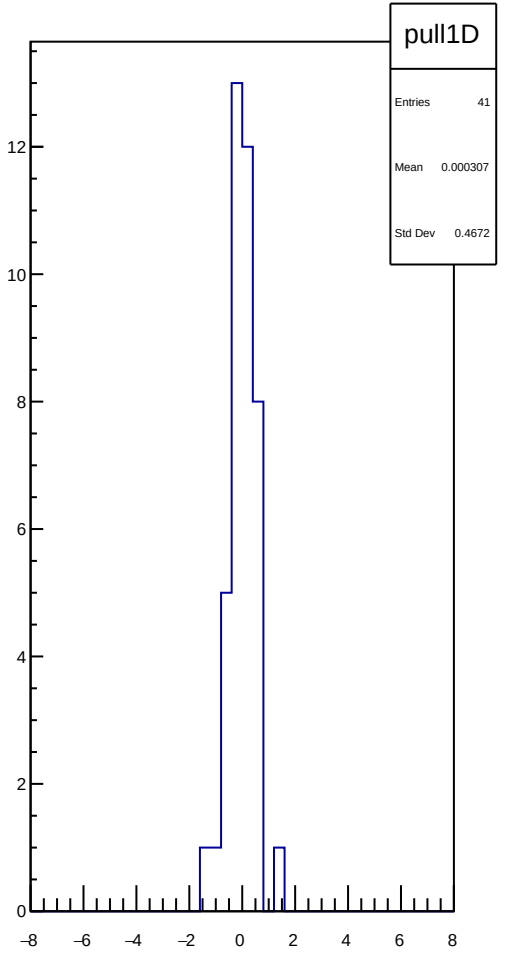

asym_bcm_an_ds3_rms vs run
χ² / ndf 2.933e+04 / 40
p0 341.3 ± 0.3877
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

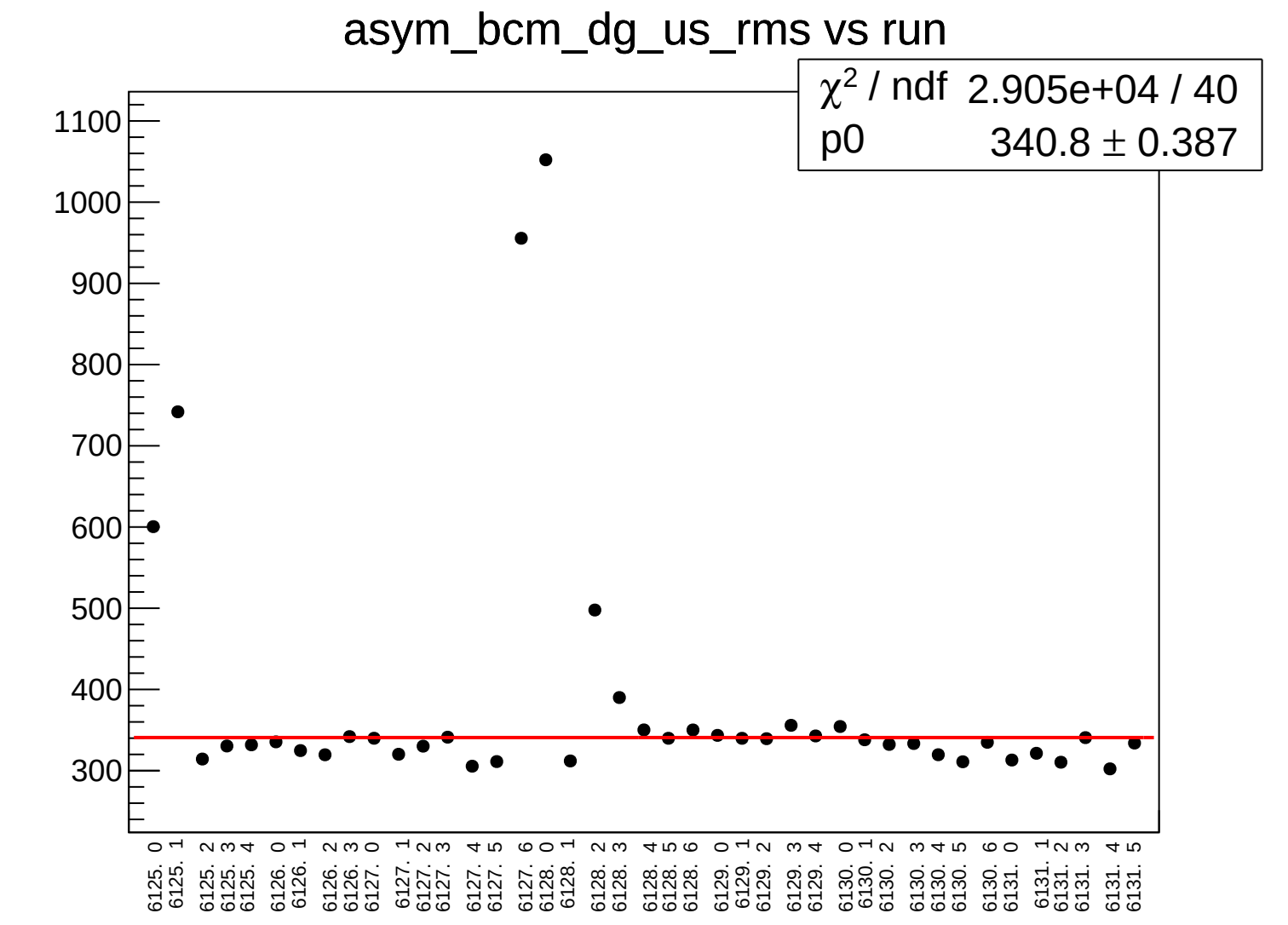

asym_bcm_an_us_mean vs run
χ² / ndf 9.581 / 40
p0 −436.1 ± 548.2
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 216.9
Std Dev 0
1
0.5
0
−0.5
−1

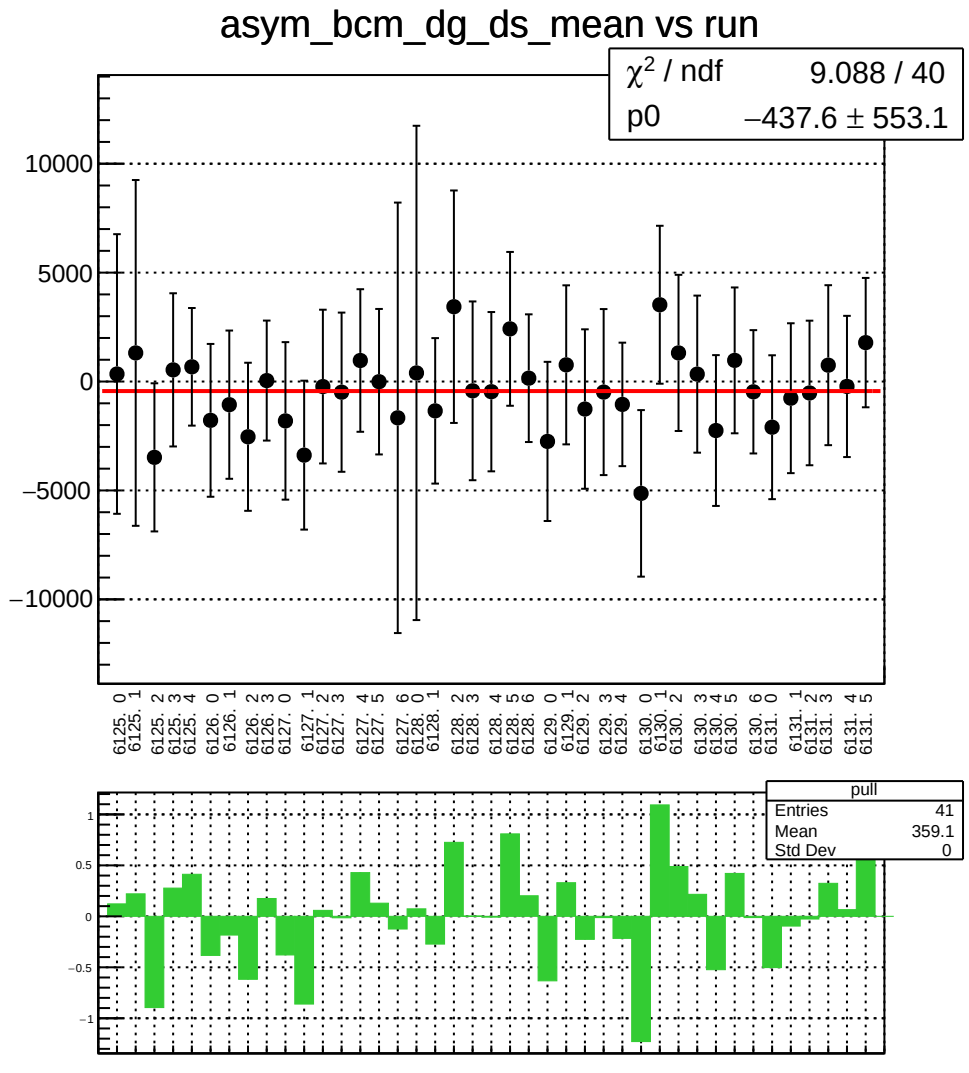

pull1D
Entries 41
Mean 0.004216
Std Dev 0.4834
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

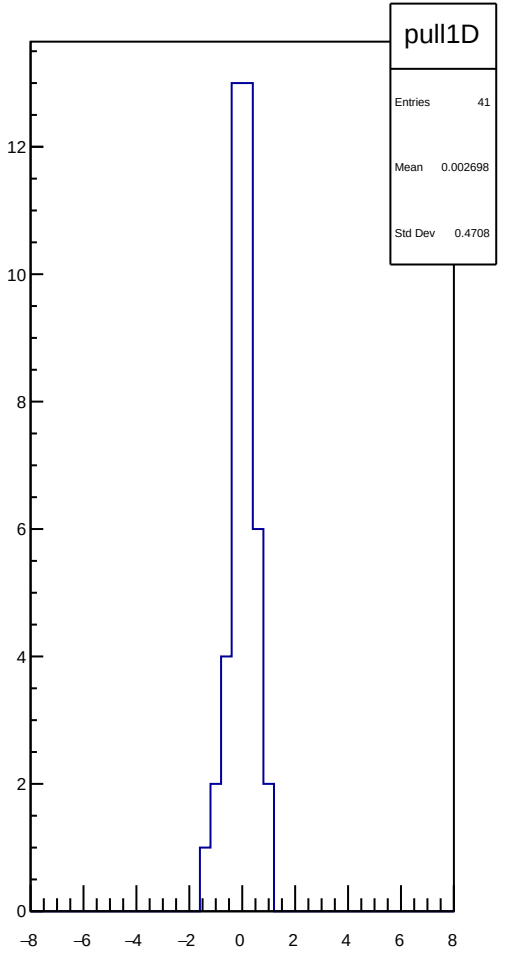

asym_bcm_an_us_rms vs run
χ² / ndf 2.934e+04 / 40
p0 341.2 ± 0.3876
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

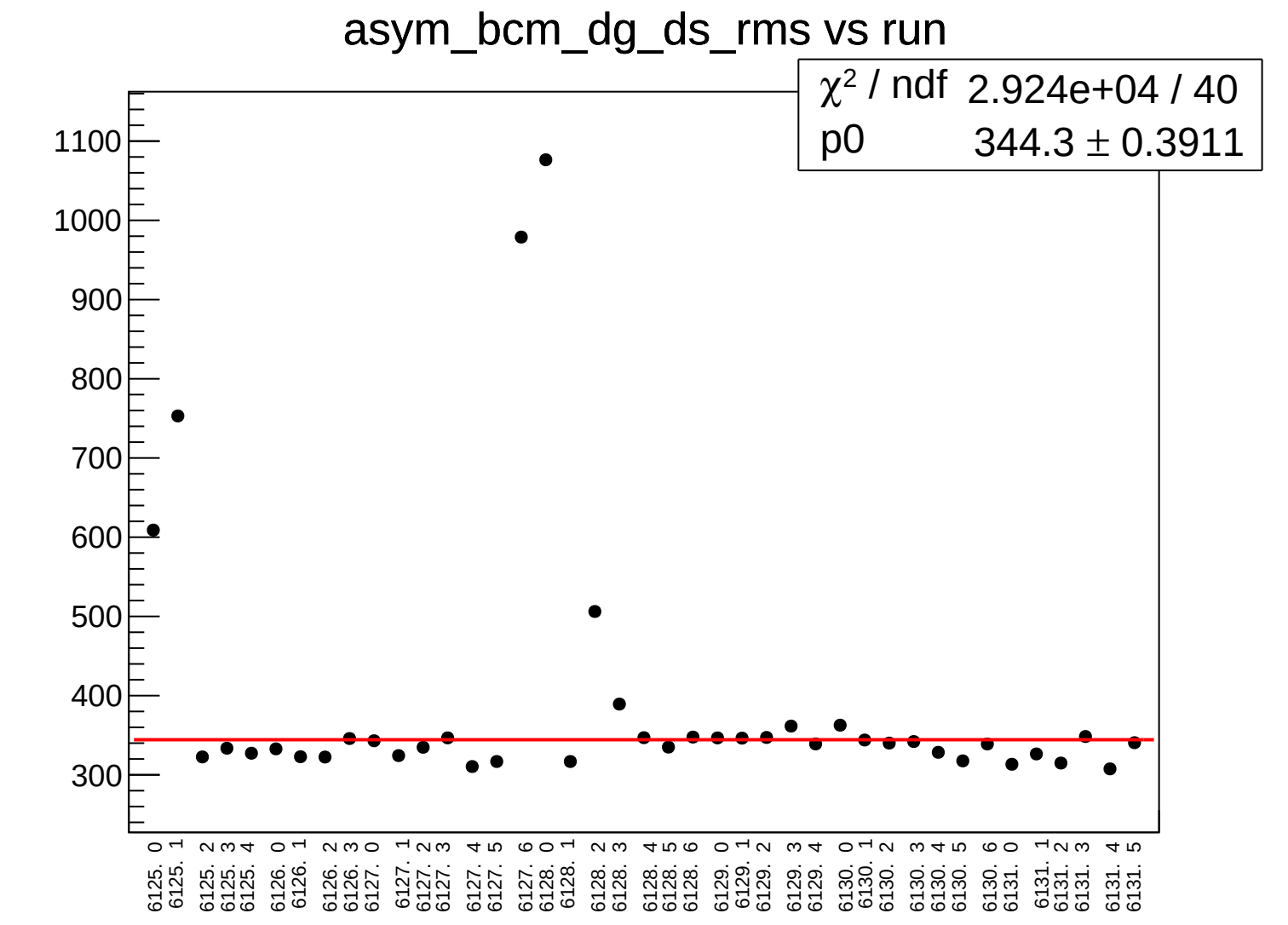

asym_bcm_dg_us_mean vs run
χ² / ndf 8.95 / 40
p0 −392.2 ± 547.4
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 3020
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

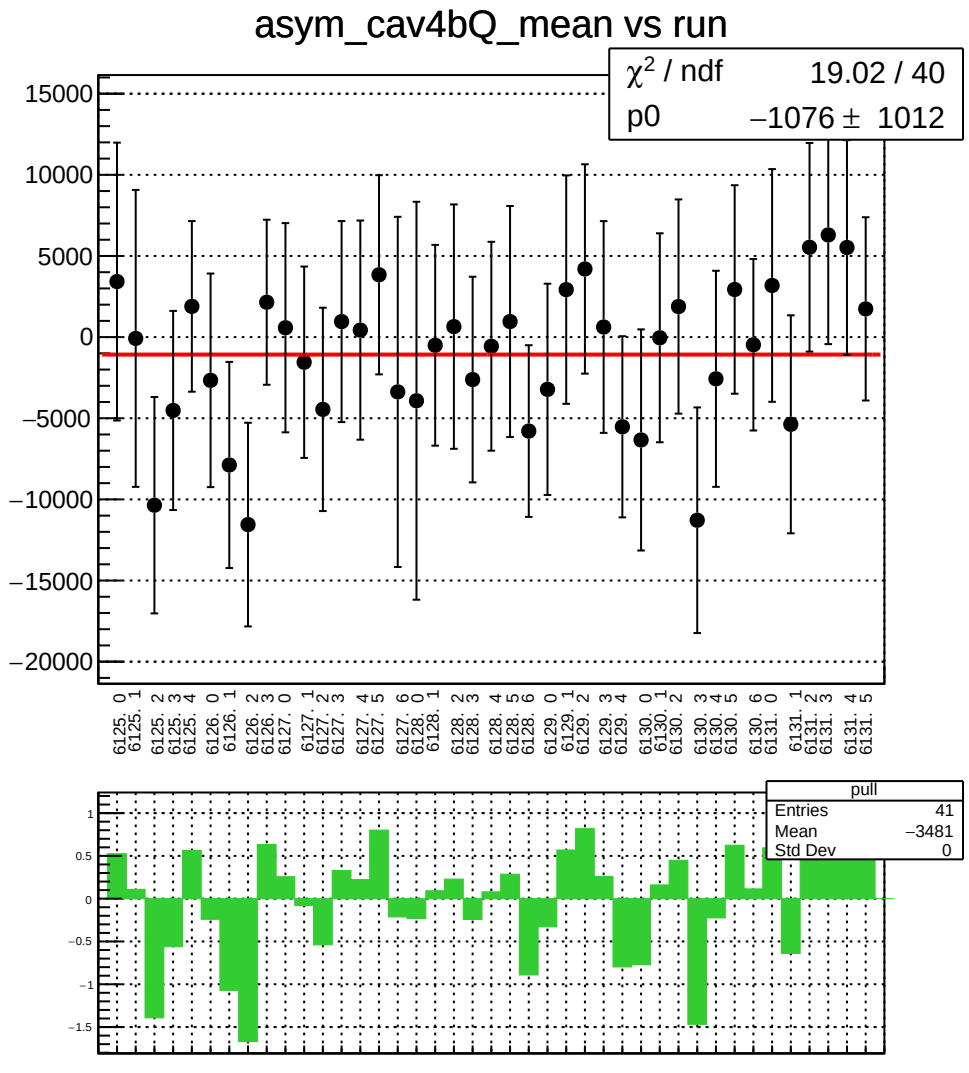

pull1D
Entries 41
Mean 0.000307
Std Dev 0.4672
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

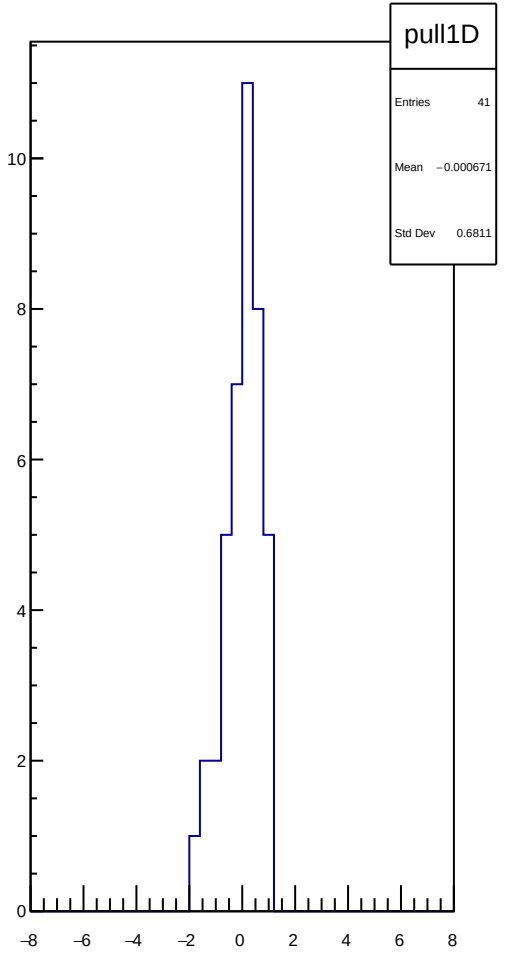

asym_bcm_dg_us_rms vs run
χ² / ndf 2.905e+04 / 40
p0 340.8 ± 0.387
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

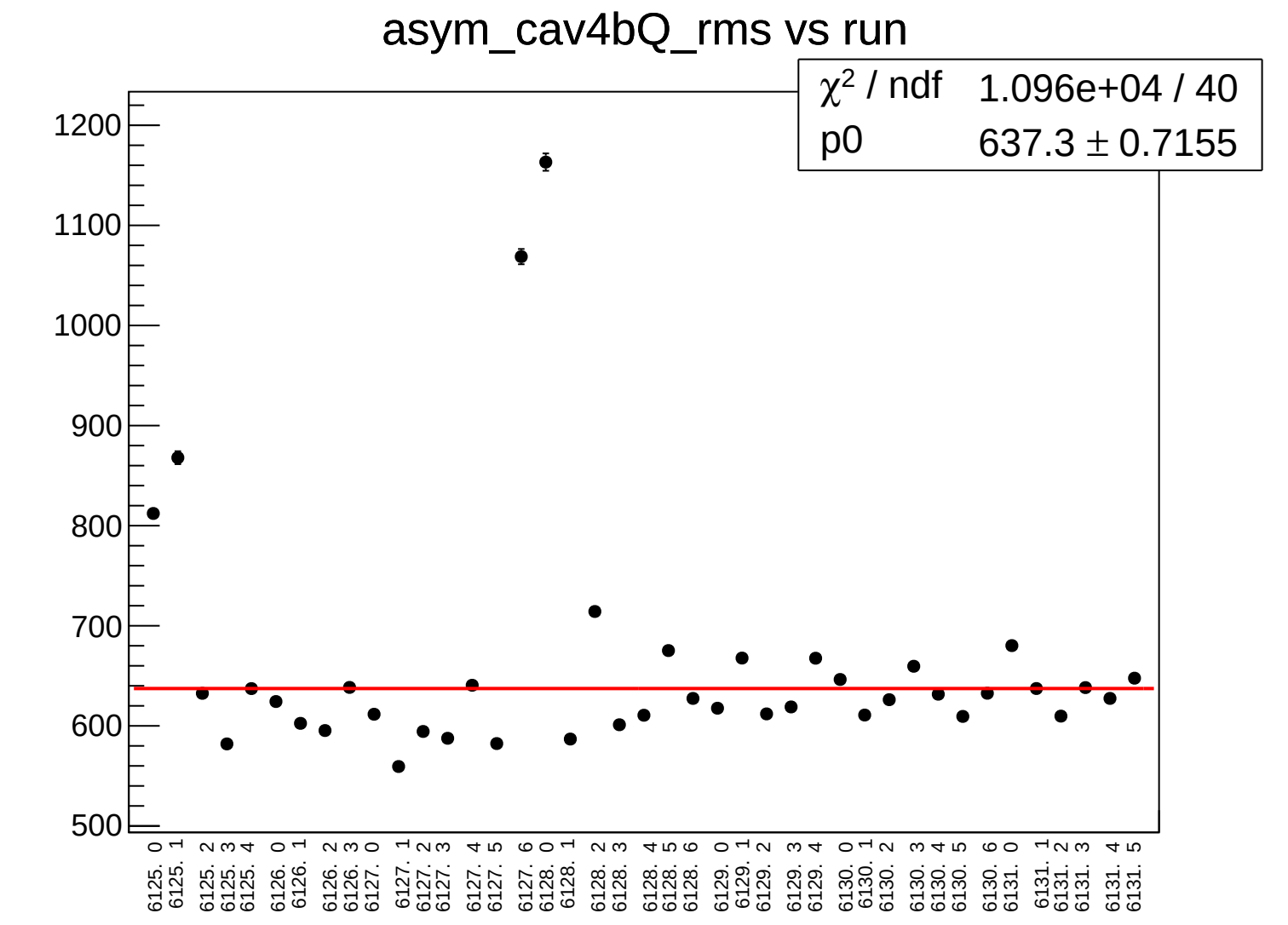

asym_bcm_dg_ds_mean vs run
χ² / ndf 9.088 / 40
p0 −437.6 ± 553.1
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 359.1
Std Dev 0
1
0.5
0
−0.5
−1

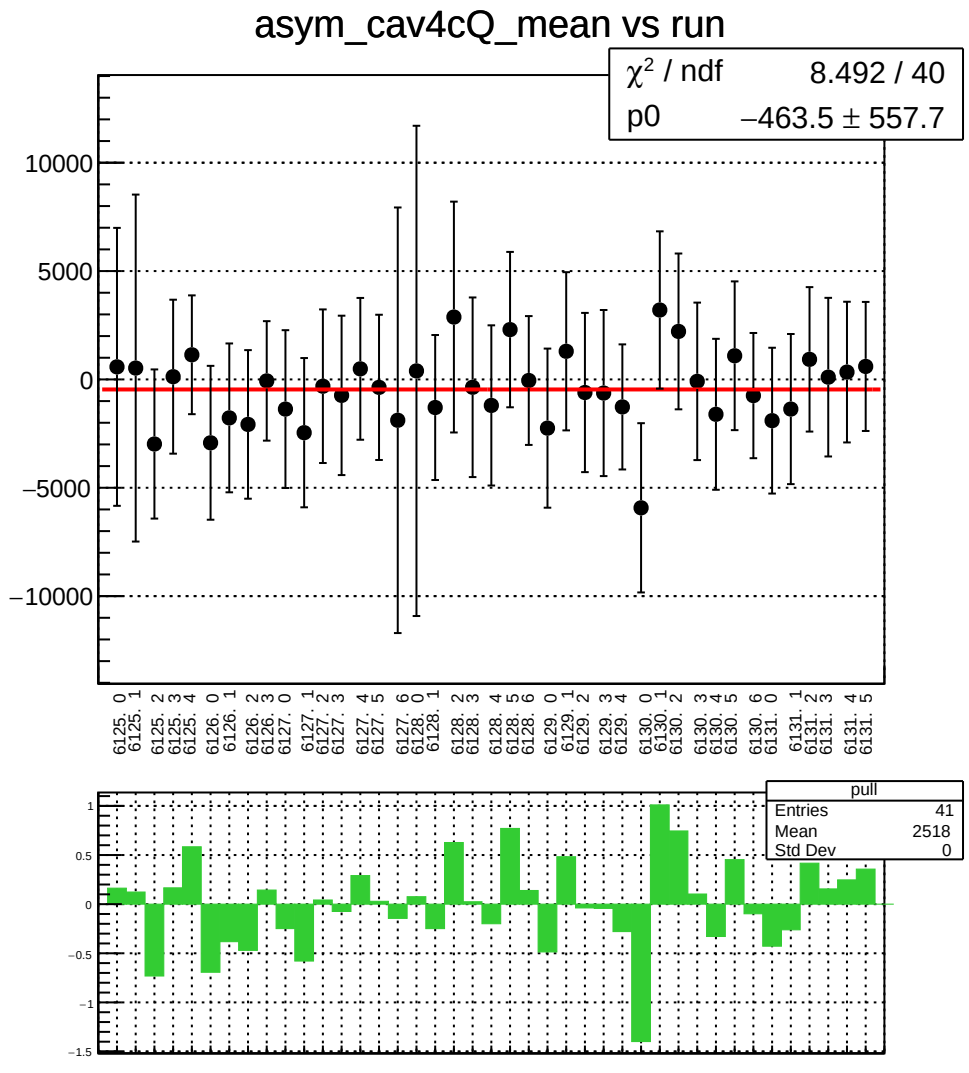

pull1D
Entries 41
Mean 0.002698
Std Dev 0.4708
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

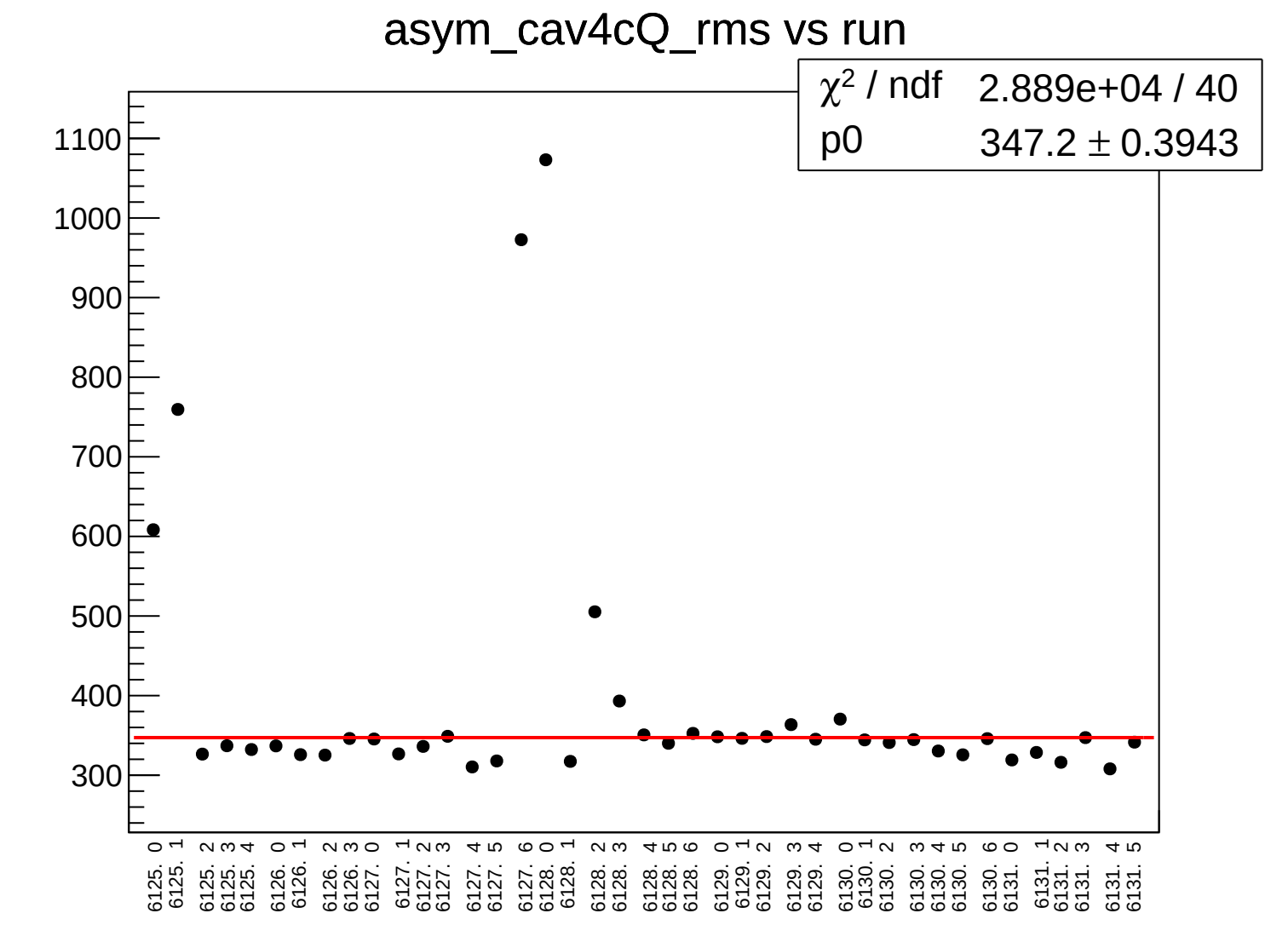

asym_bcm_dg_ds_rms vs run
χ² / ndf 2.924e+04 / 40
p0 344.3 ± 0.3911
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

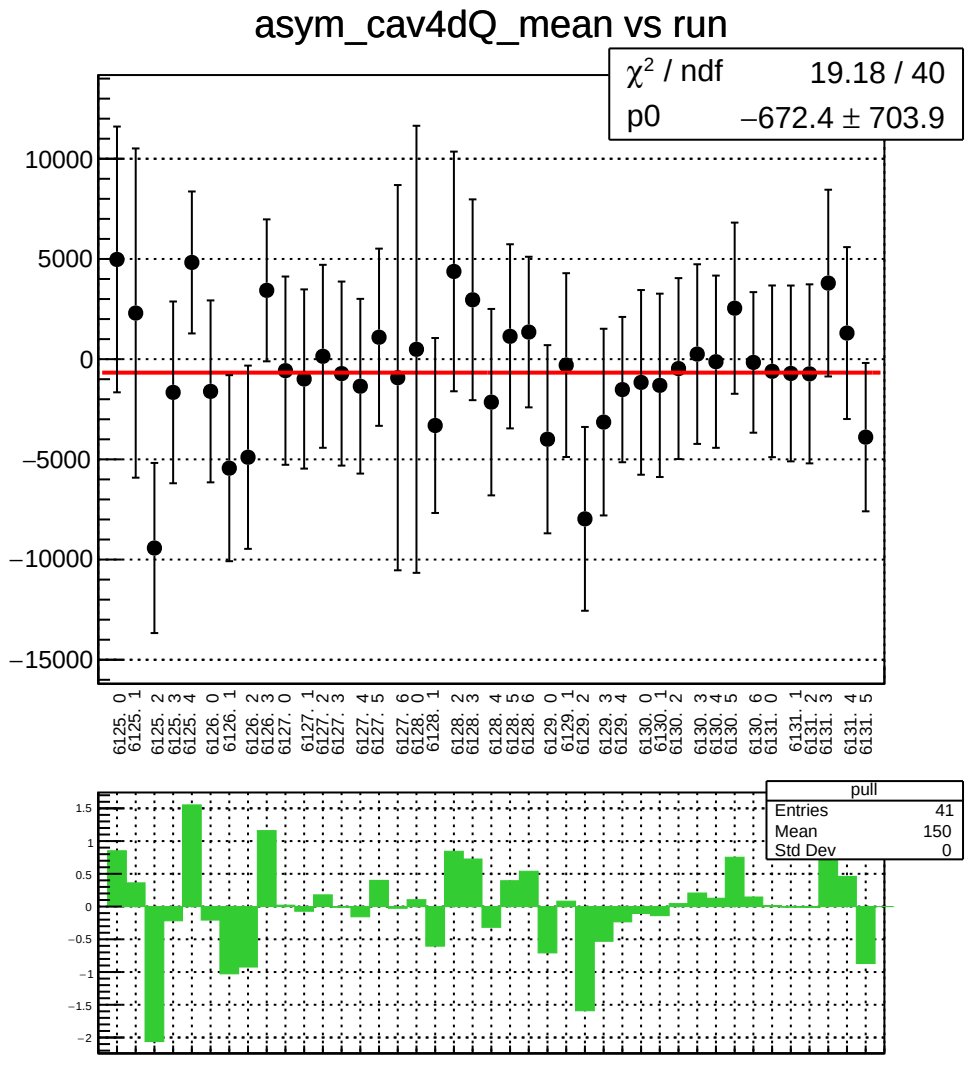

asym_cav4bQ_mean vs run
χ² / ndf 19.02 / 40
p0 −1076 ± 1012
15000
10000
5000
0
−5000
−10000
−15000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −3481
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

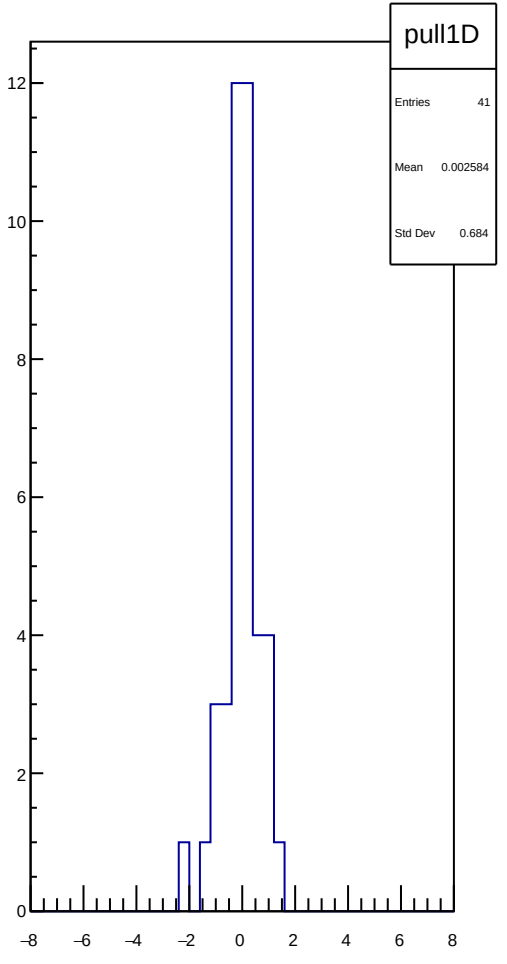

pull1D
Entries 41
Mean −0.000671
Std Dev 0.6811
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

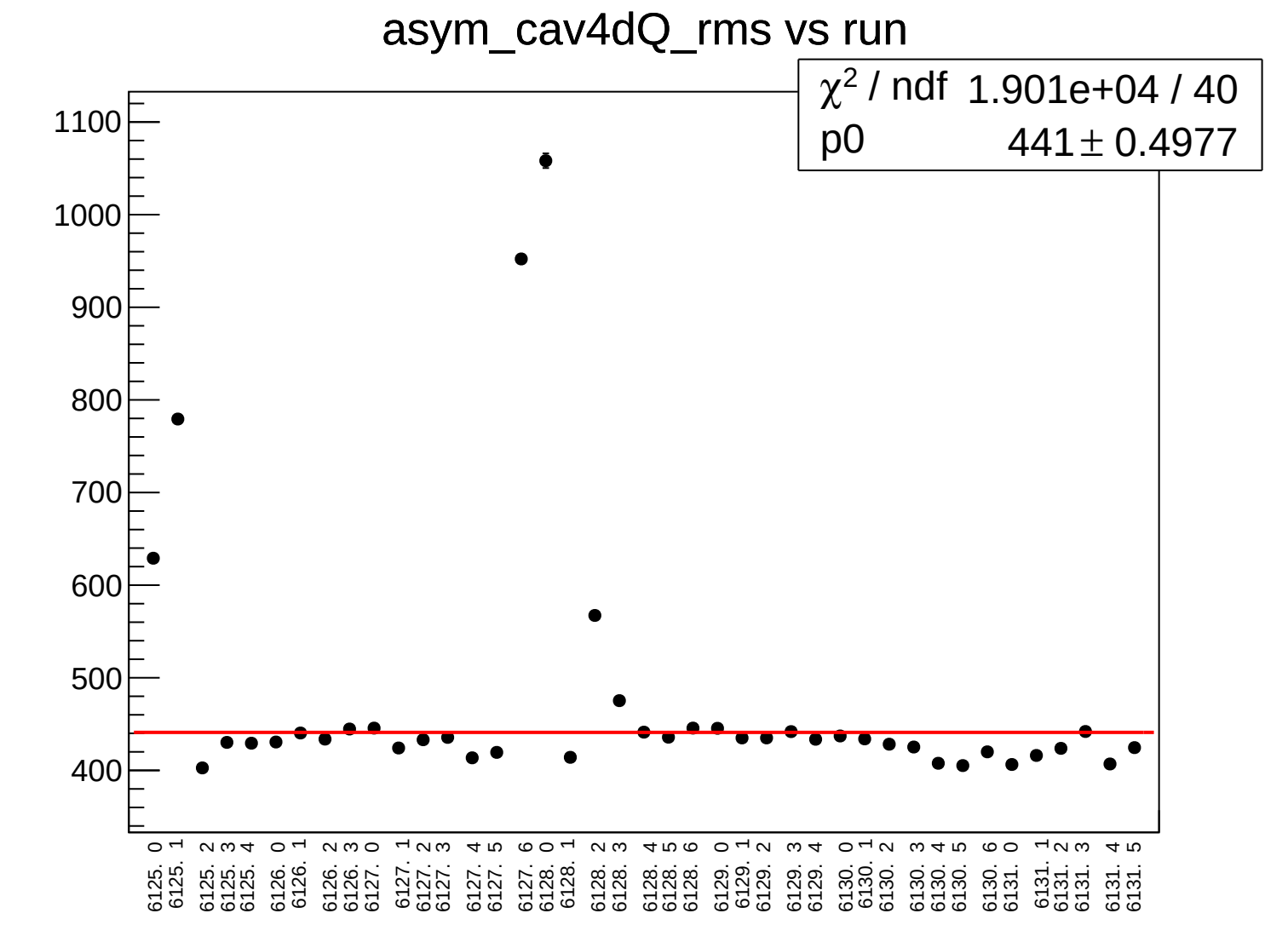

asym_cav4bQ_rms vs run
χ² / ndf 1.096e+04 / 40
p0 637.3 ± 0.7155
1200
1100
1000
900
800
700
600
500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

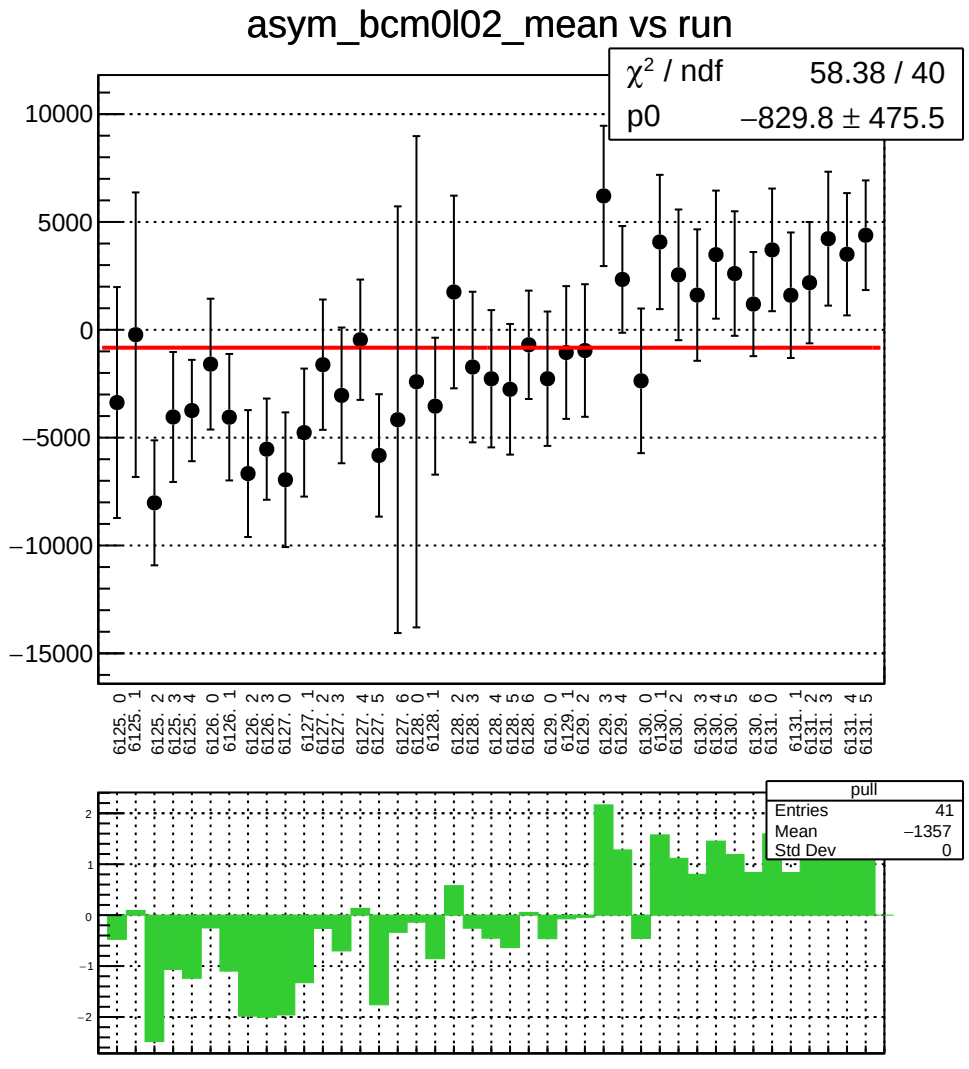

asym_cav4cQ_mean vs run
χ² / ndf 8.492 / 40
p0 −463.5 ± 557.7
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 2518
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.0003832
Std Dev 0.4551
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

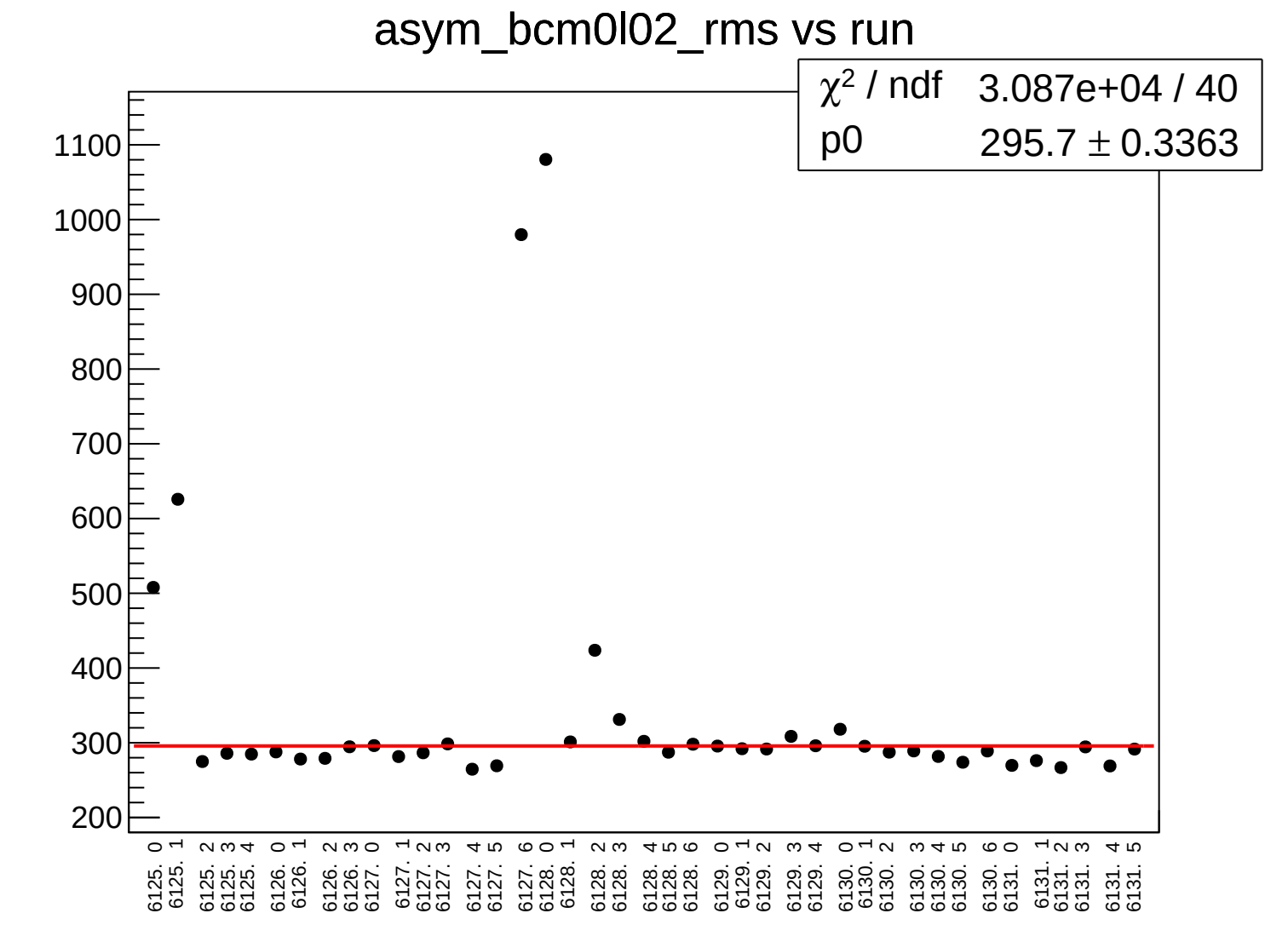

asym_cav4cQ_rms vs run
χ² / ndf 2.889e+04 / 40
p0 347.2 ± 0.3943
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

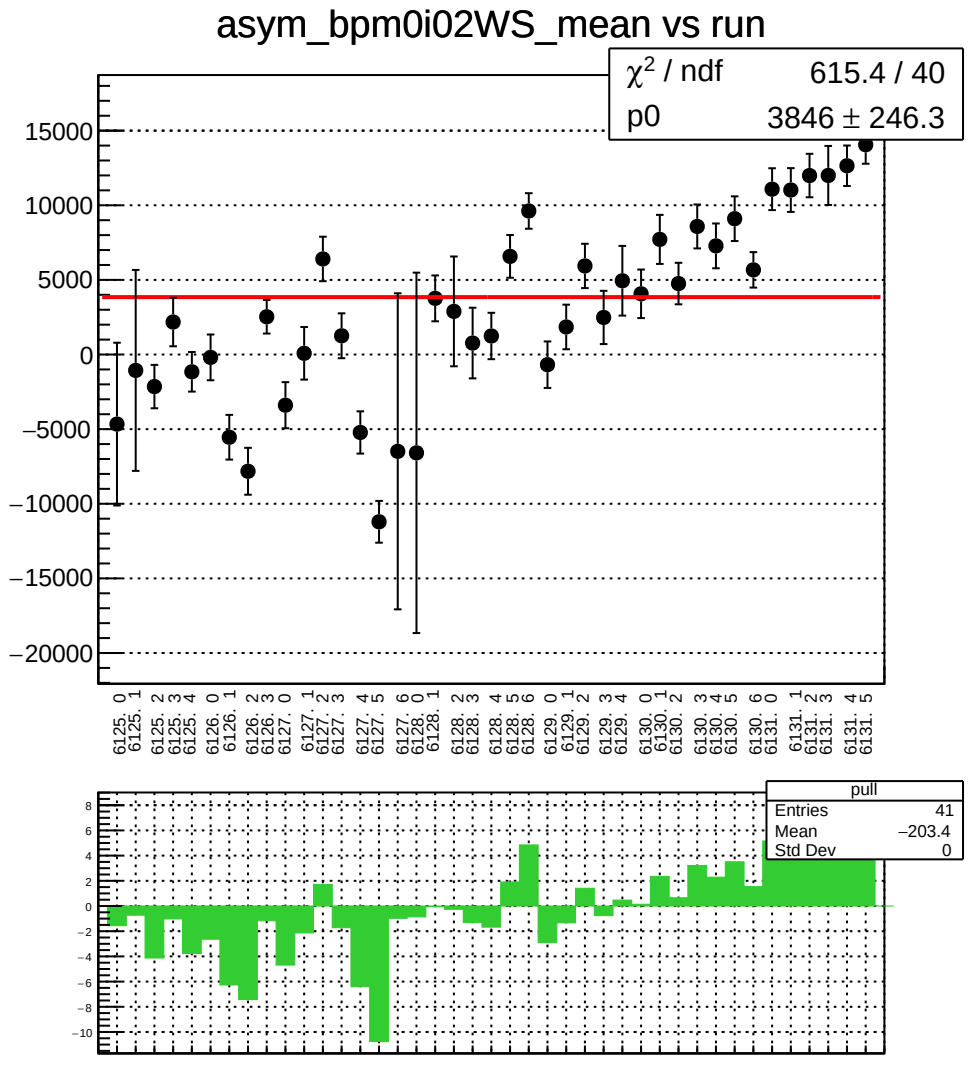

asym_cav4dQ_mean vs run
χ² / ndf 19.18 / 40
p0 −672.4 ± 703.9
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 150
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

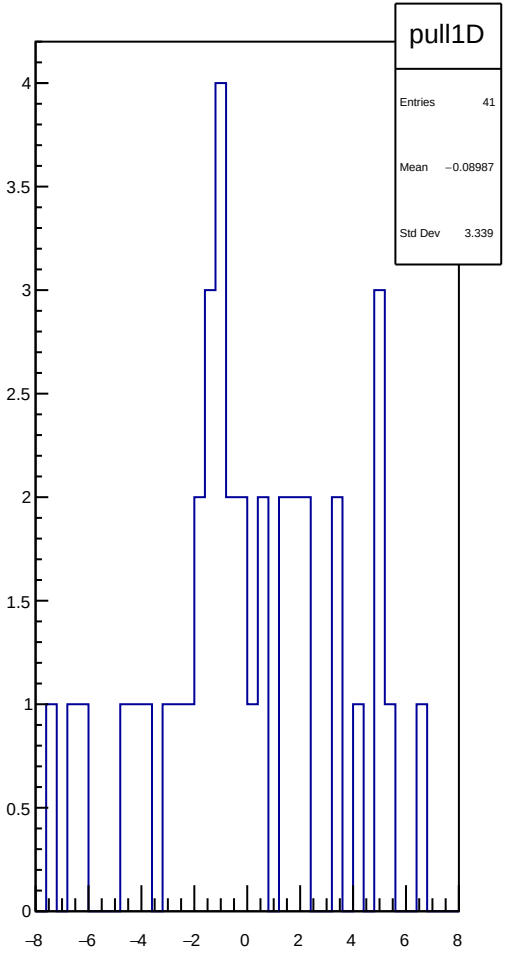

pull1D
Entries 41
Mean 0.002584
Std Dev 0.684
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

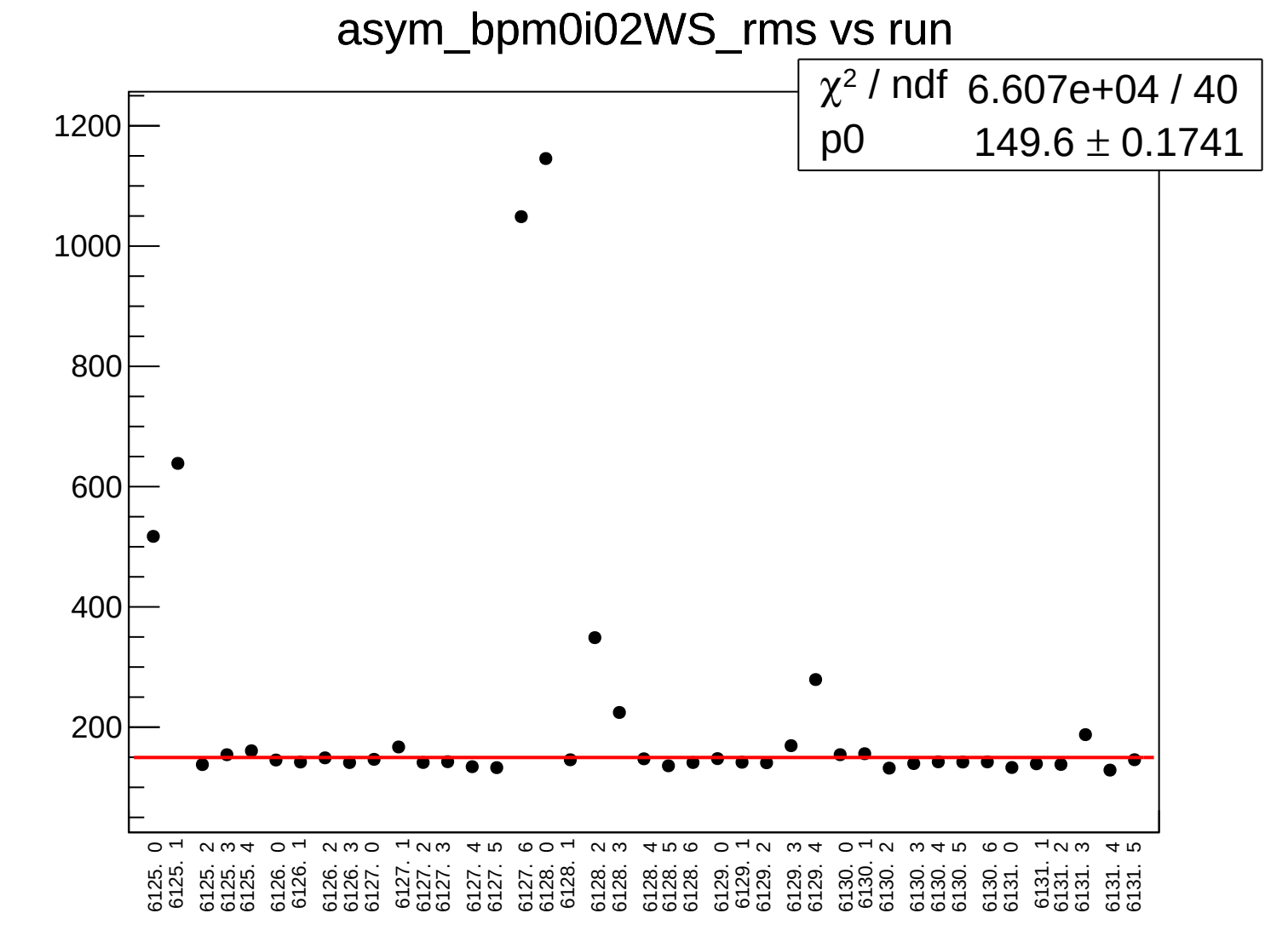

asym_cav4dQ_rms vs run
χ² / ndf 1.901e+04 / 40
p0 441 ± 0.4977
1100
1000
900
800
700
600
500
400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

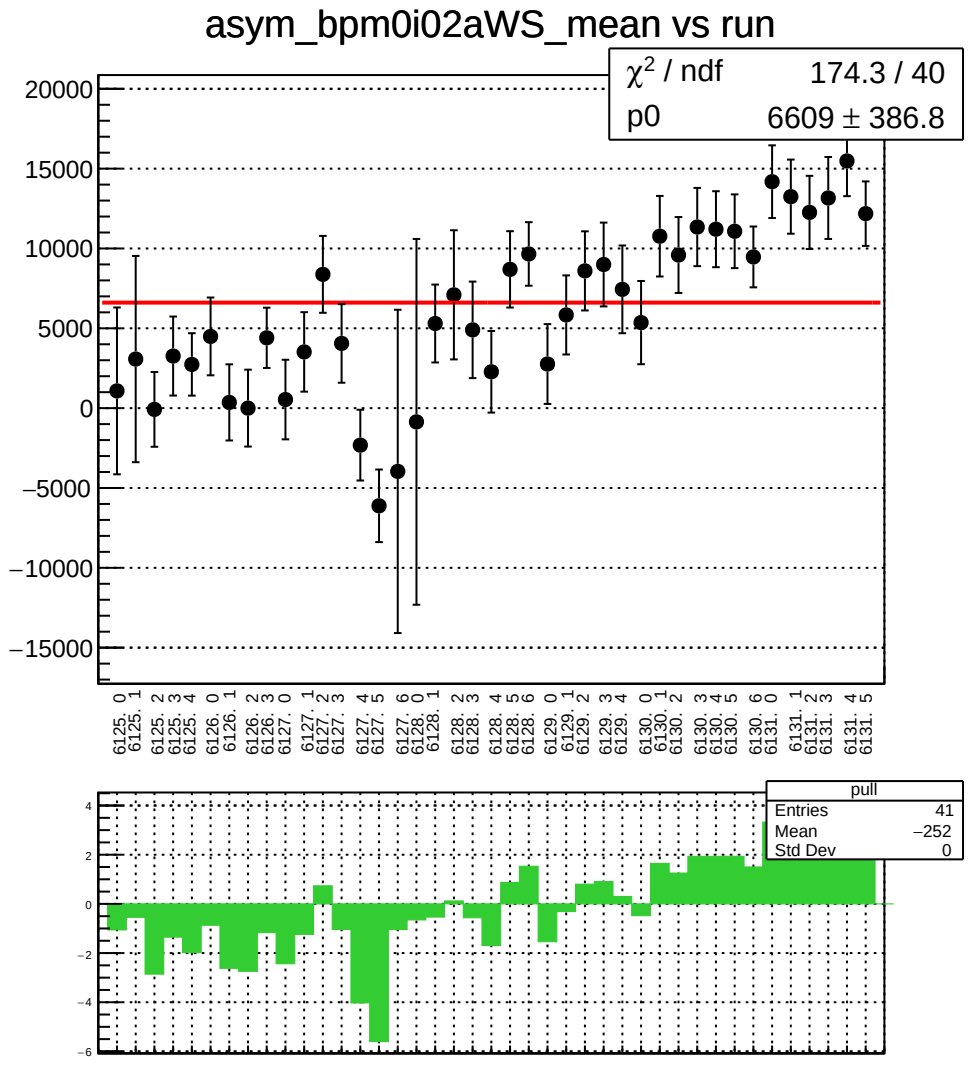

asym_bcm0l02_mean vs run
χ² / ndf 58.38 / 40
p0 −829.8 ± 475.5
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1357
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.008237
Std Dev 1.193
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

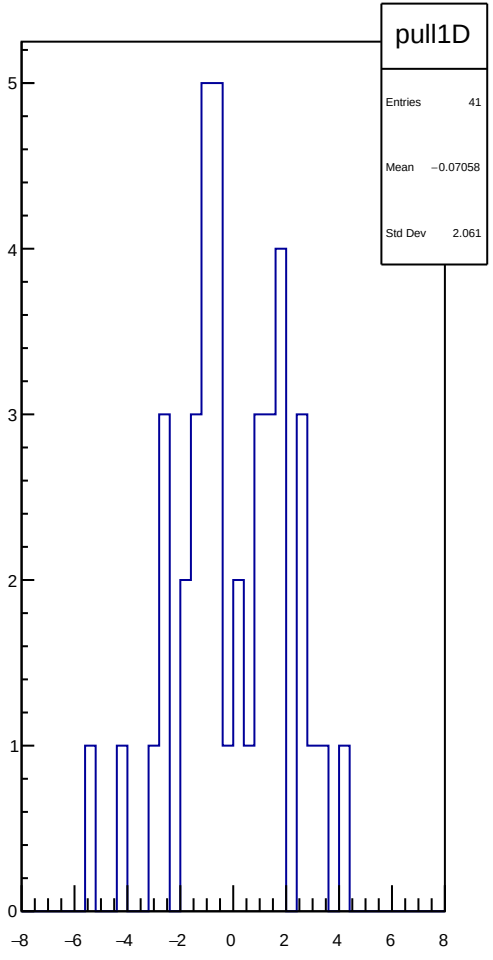

asym_bcm0l02_rms vs run
χ² / ndf 3.087e+04 / 40
p0 295.7 ± 0.3363
1100
1000
900
800
700
600
500
400
300
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

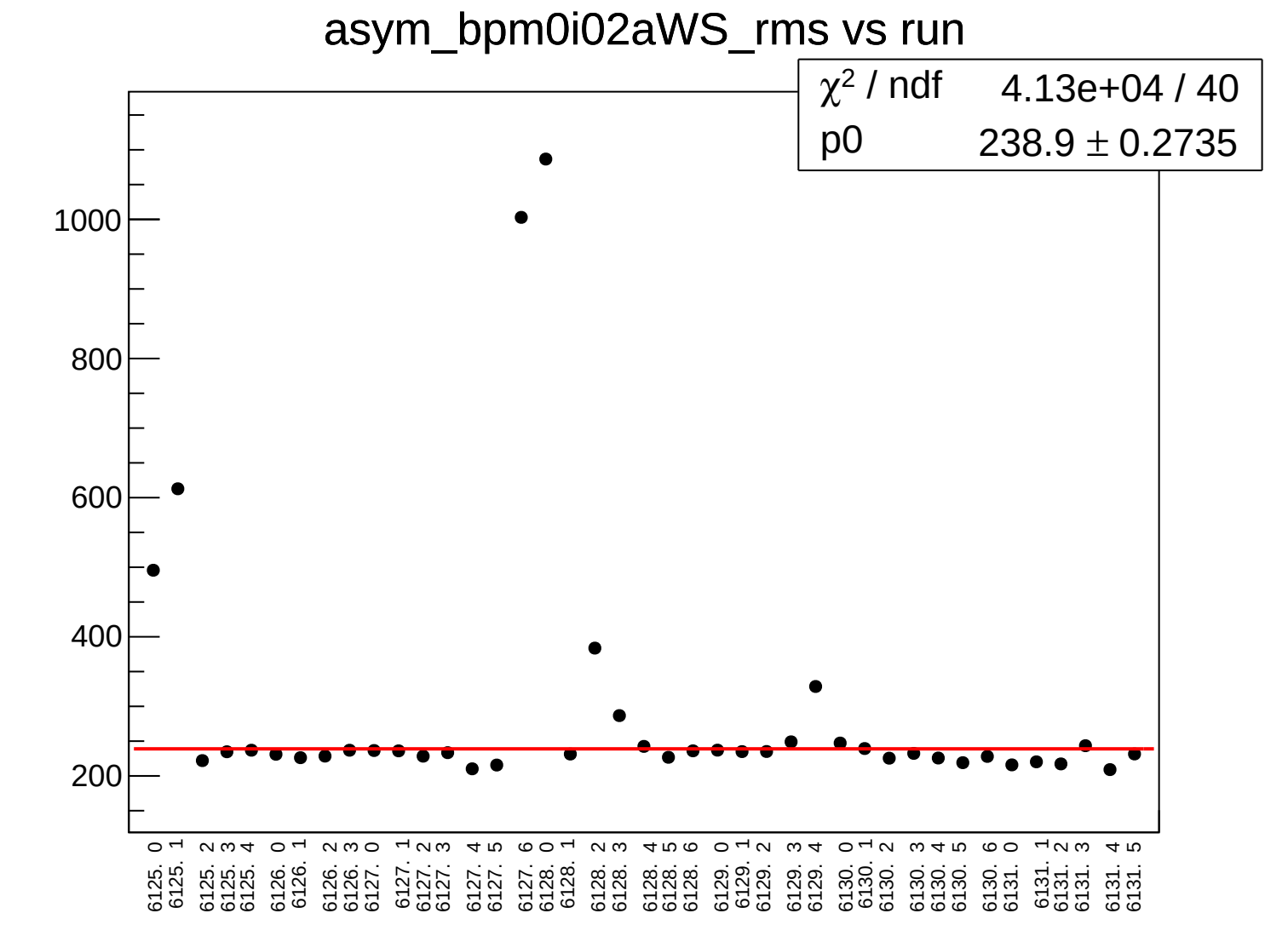

asym_bpm0i02WS_mean vs run
χ² / ndf 615.4 / 40
p0 3846 ± 246.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −203.4
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10

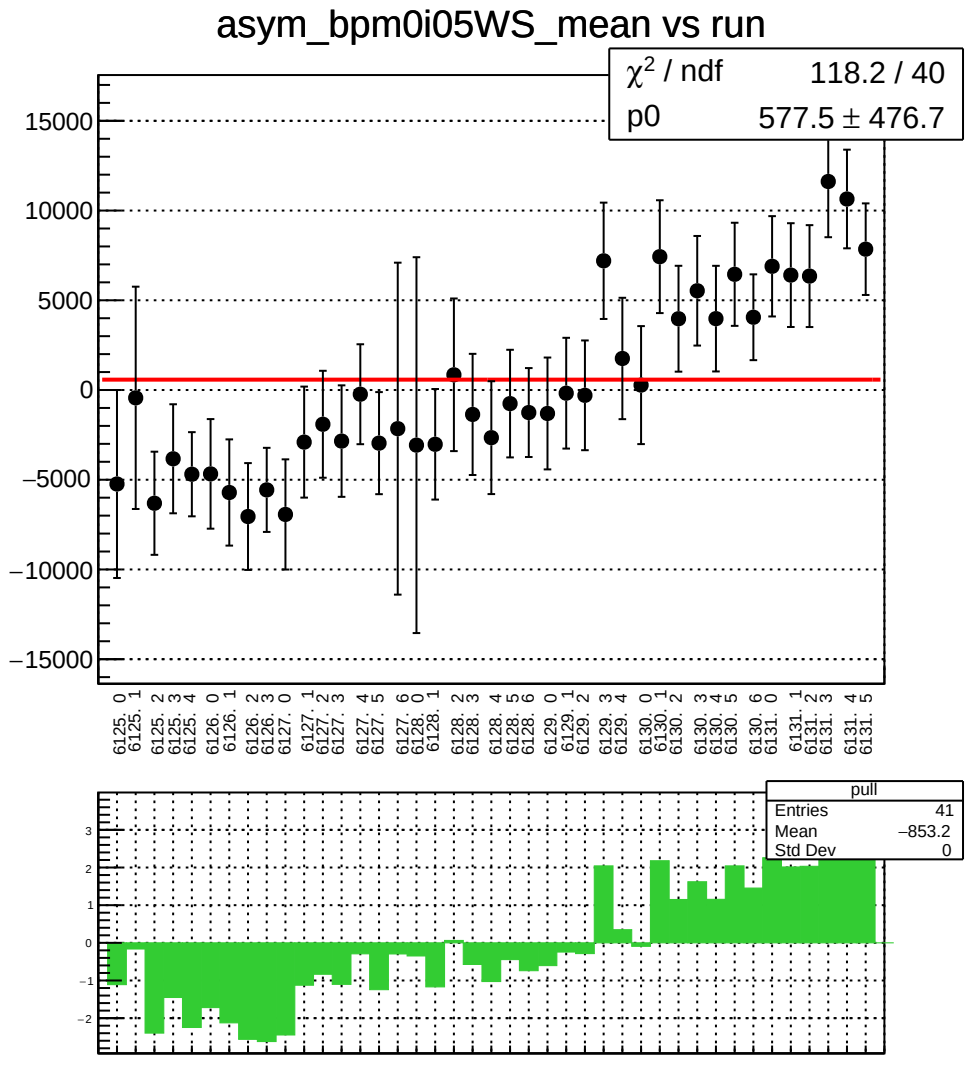

pull1D
Entries 41
Mean −0.08987
Std Dev 3.339
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

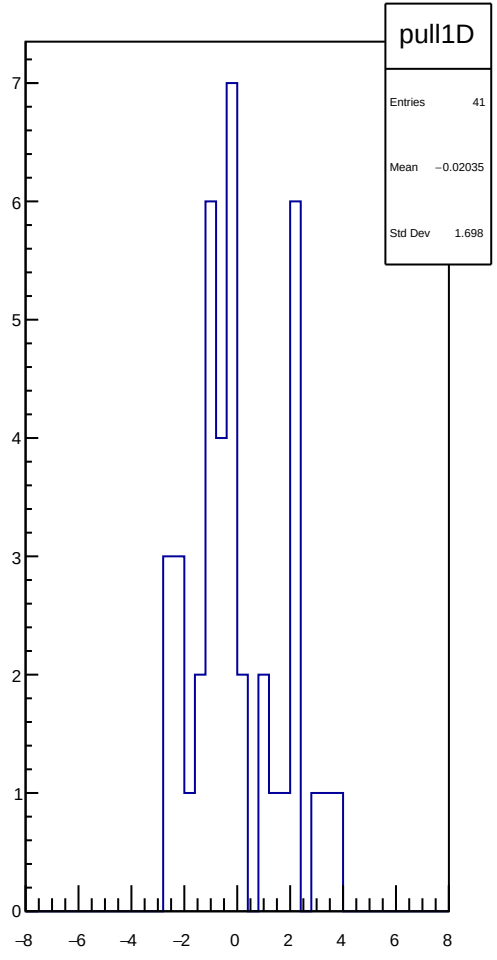

asym_bpm0i02WS_rms vs run
χ² / ndf 6.607e+04 / 40
p0 149.6 ± 0.1741
1200
1000
800
600
400
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

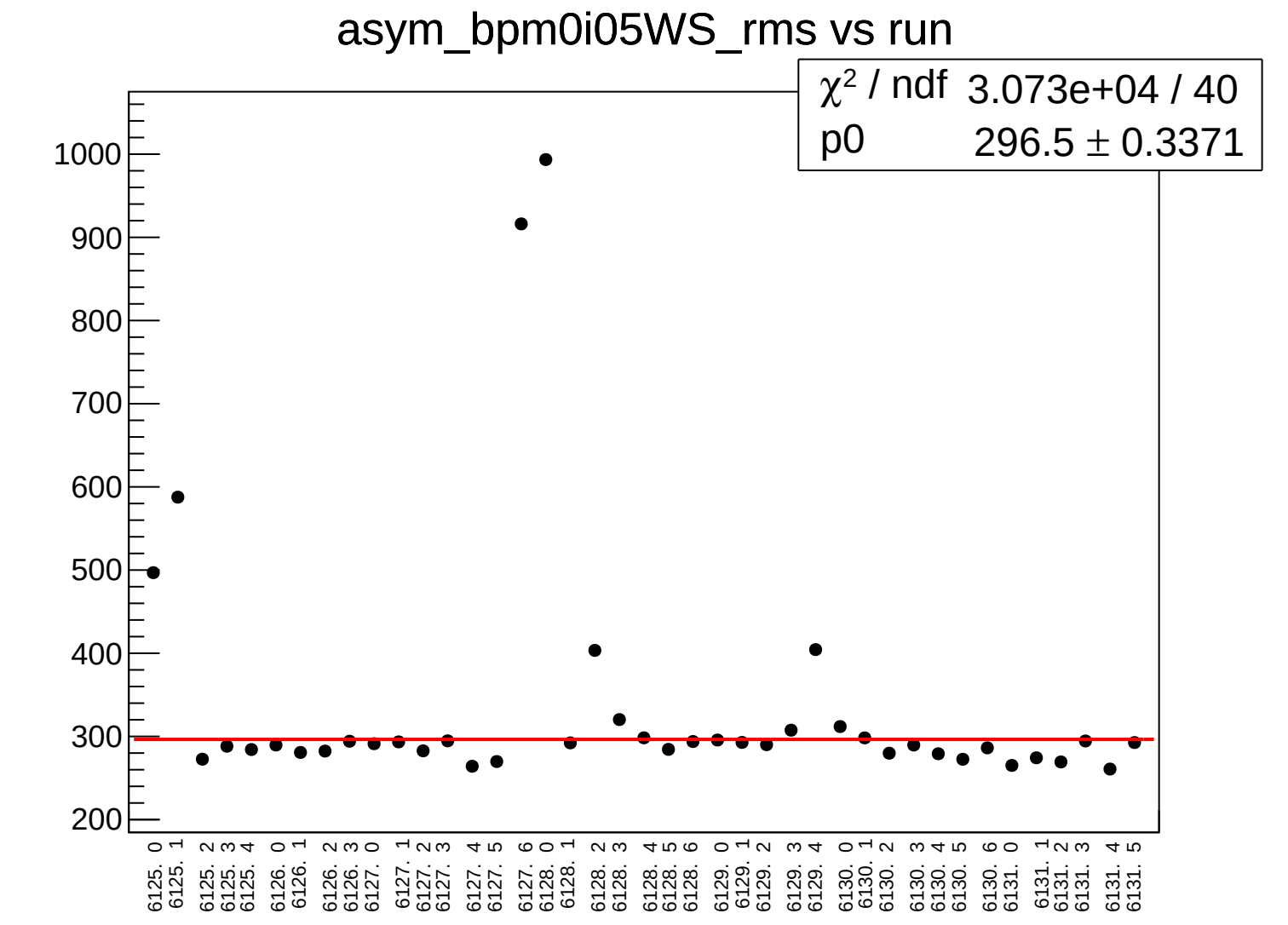

asym_bpm0i02aWS_mean vs run
χ² / ndf 174.3 / 40
p0 6609 ± 386.8
20000
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −252
Std Dev 0
4
2
0
−2
−4
−6

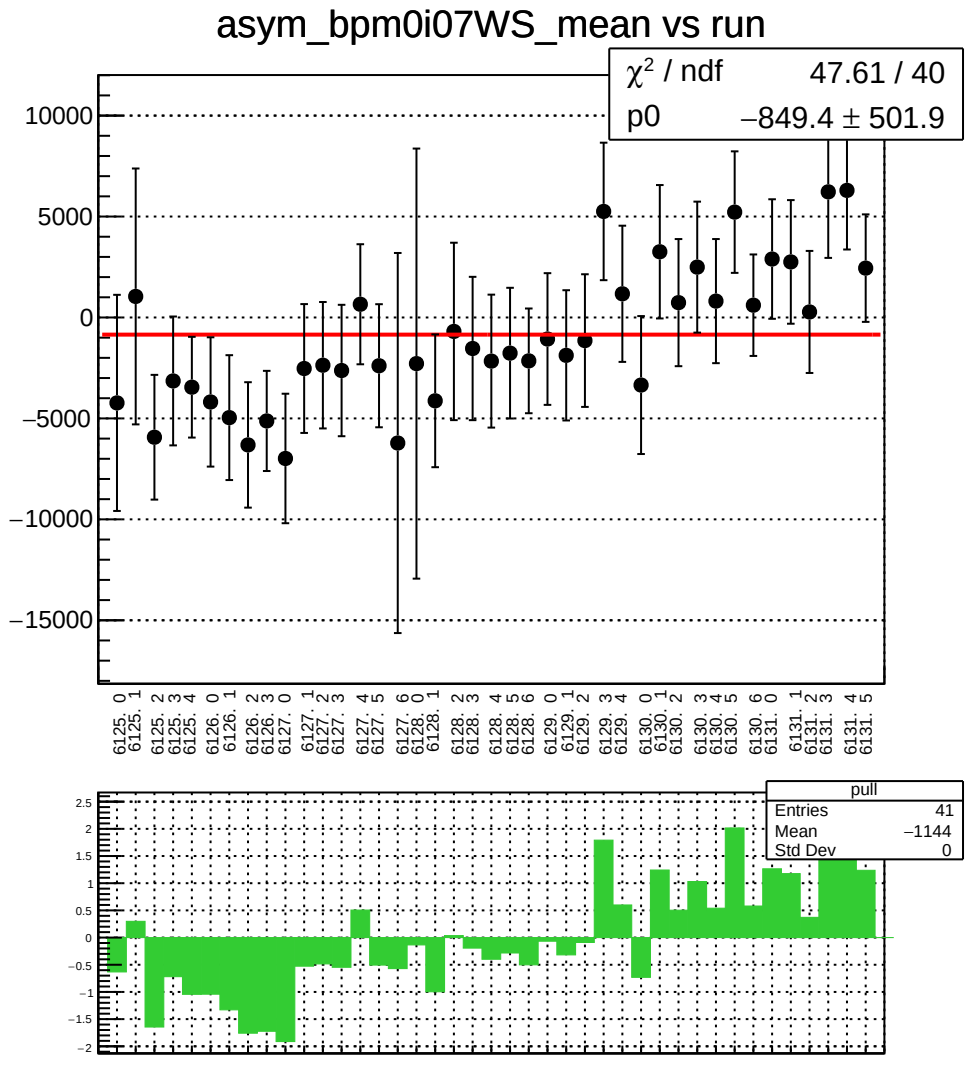

pull1D
Entries 41
Mean −0.07058
Std Dev 2.061
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

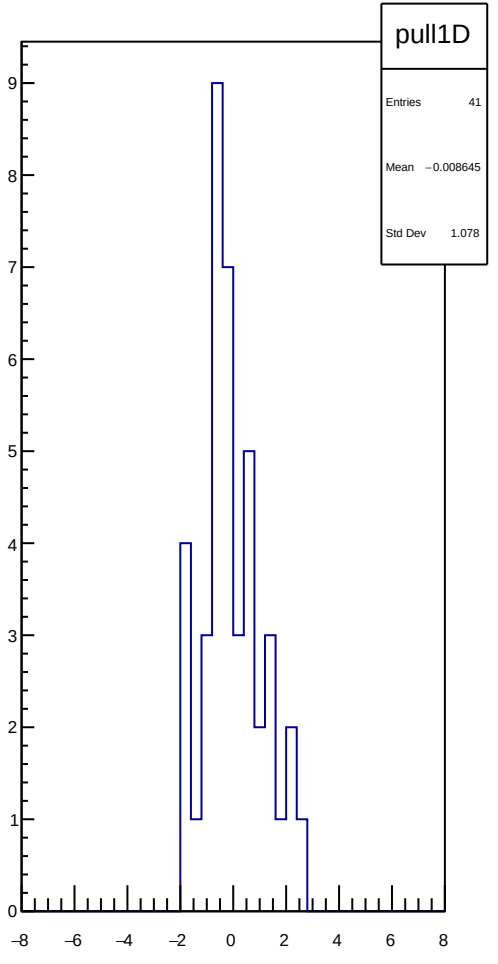

asym_bpm0i02aWS_rms vs run
χ² / ndf 4.13e+04 / 40
p0 238.9 ± 0.2735
1000
800
600
400
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

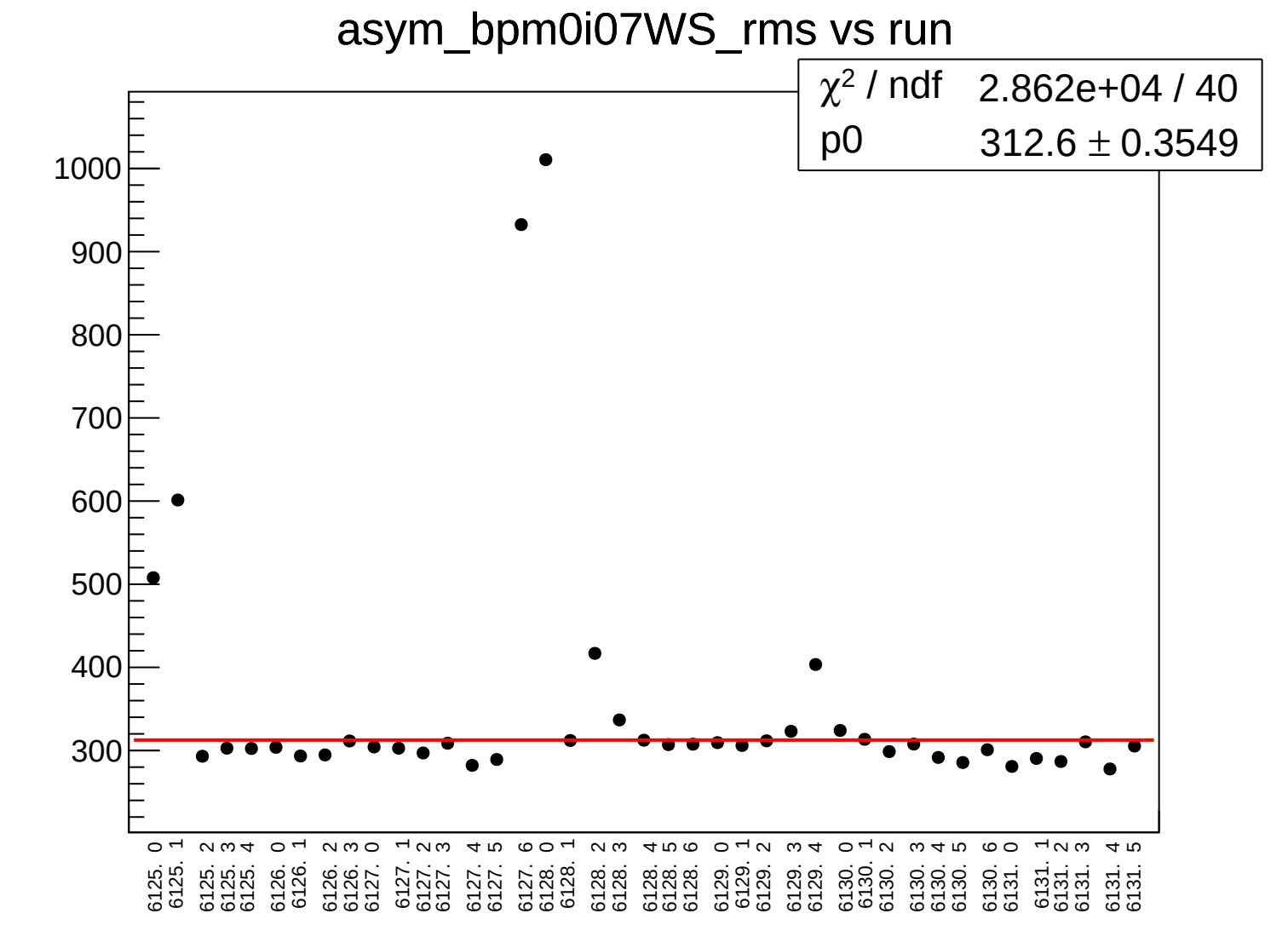

asym_bpm0i05WS_mean vs run
χ² / ndf 118.2 / 40
p0 577.5 ± 476.7
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −853.2
Std Dev 0
3
2
1
0
−1
−2

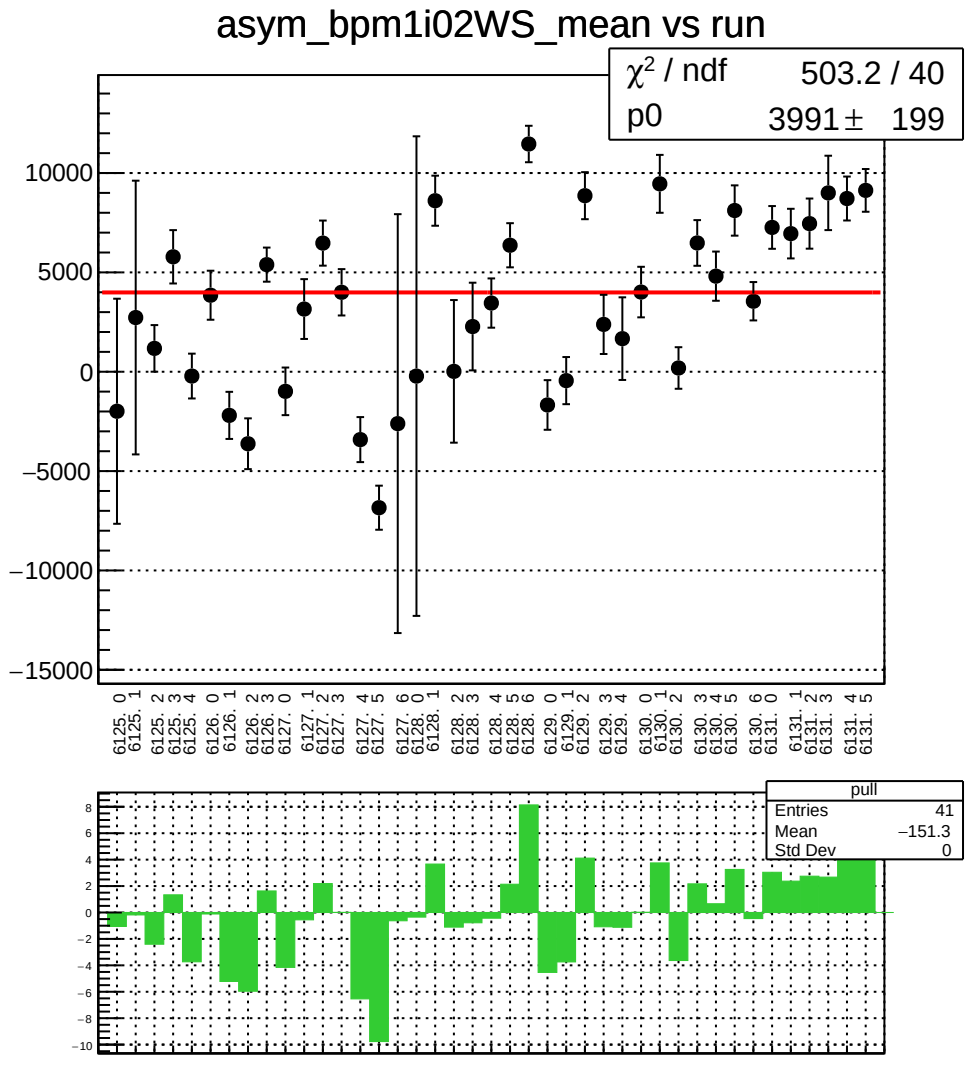

pull1D
Entries 41
Mean −0.02035
Std Dev 1.698
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

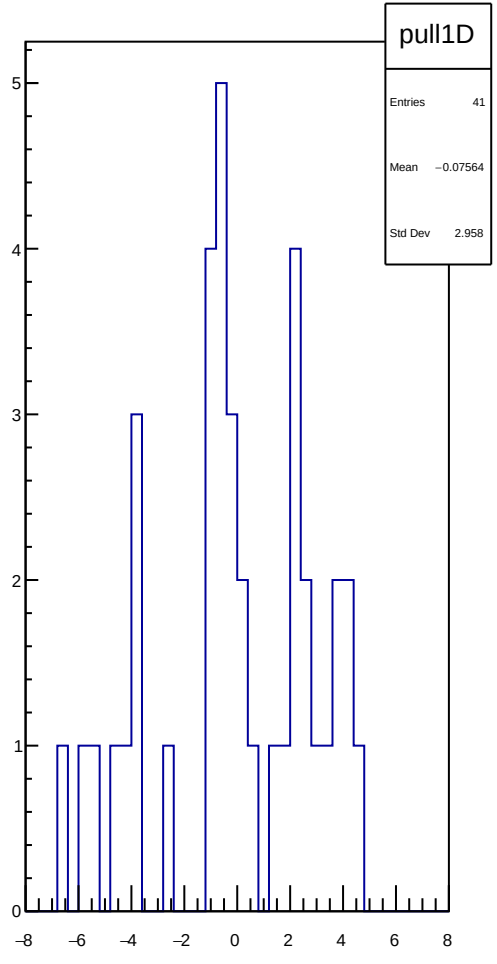

asym_bpm0i05WS_rms vs run
χ² / ndf 3.073e+04 / 40
p0 296.5 ± 0.3371
1000
900
800
700
600
500
400
300
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

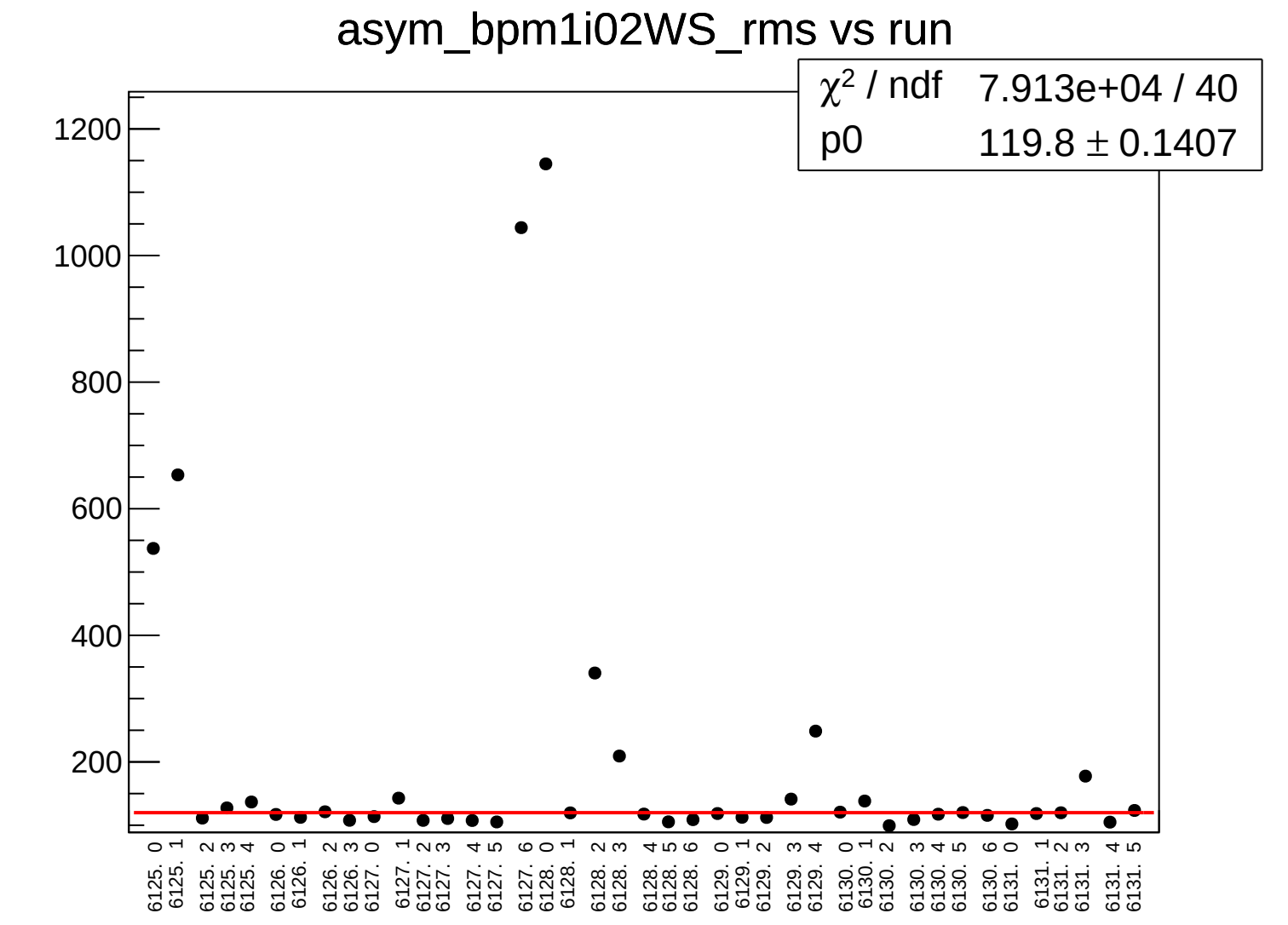

asym_bpm0i07WS_mean vs run
χ² / ndf 47.61 / 40
p0 −849.4 ± 501.9
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1144
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

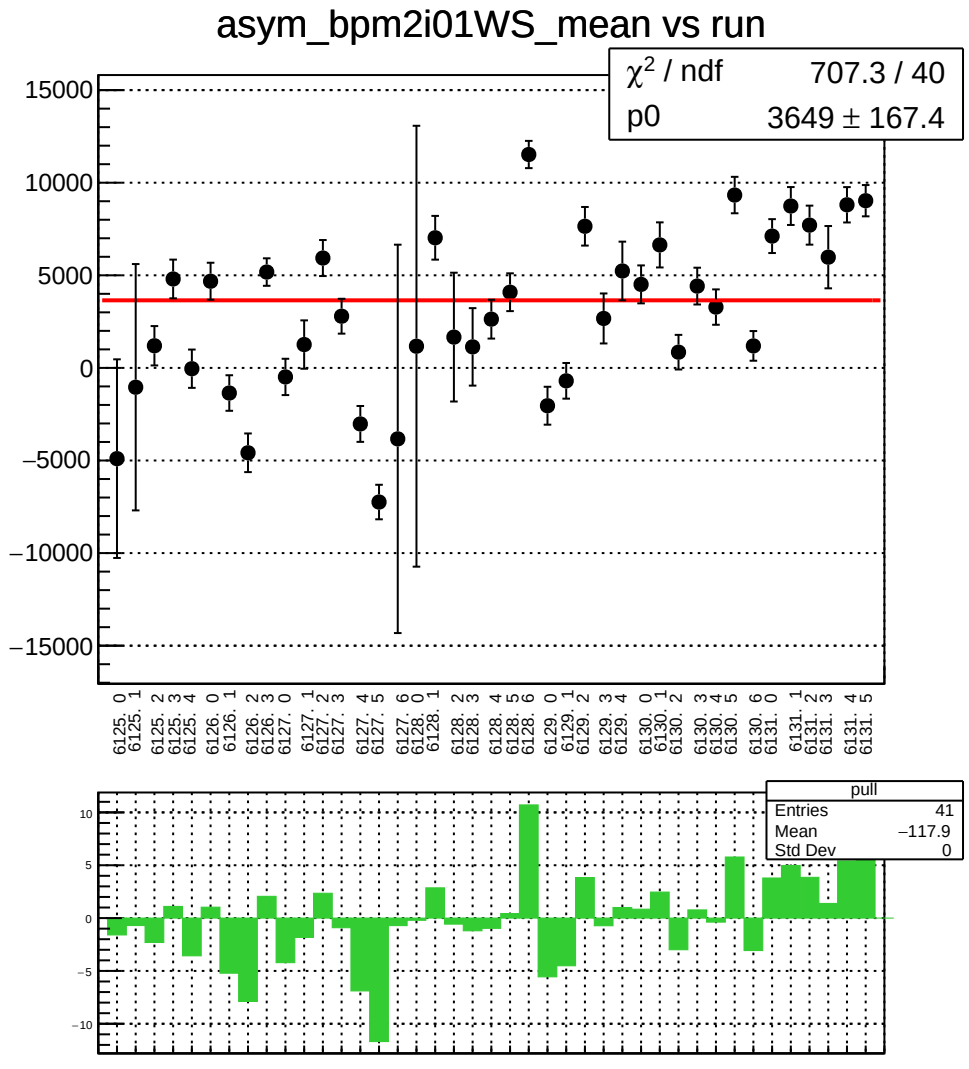

pull1D
Entries 41
Mean −0.008645
Std Dev 1.078
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

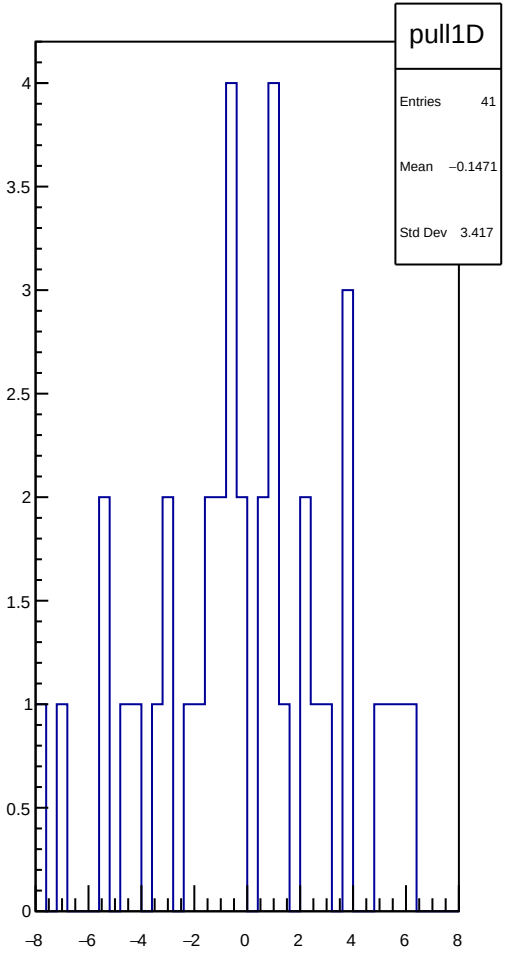

asym_bpm0i07WS_rms vs run
χ² / ndf 2.862e+04 / 40
p0 312.6 ± 0.3549
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

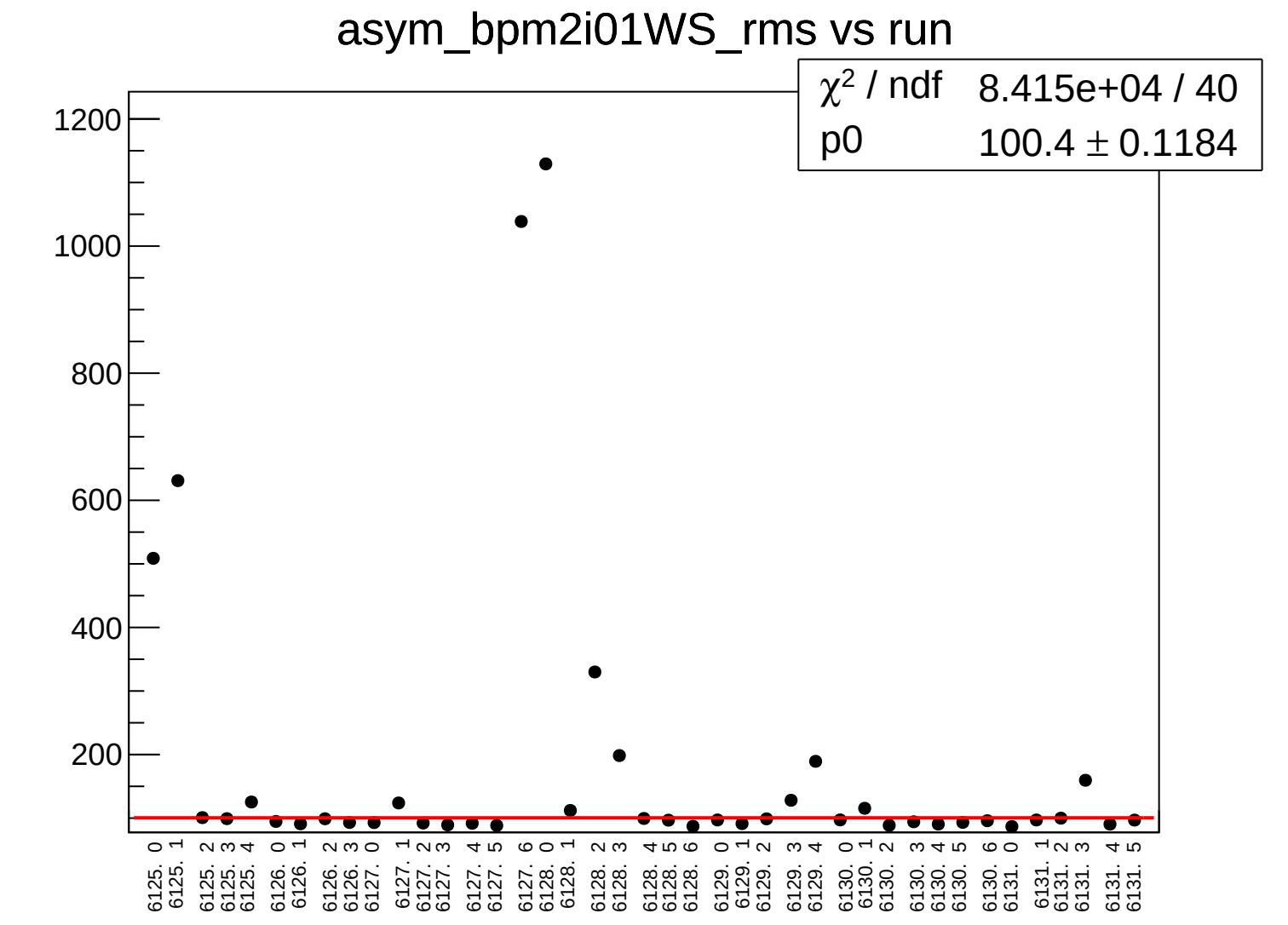

asym_bpm1i02WS_mean vs run
χ² / ndf 503.2 / 40
p0 3991 ± 199
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −151.3
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10

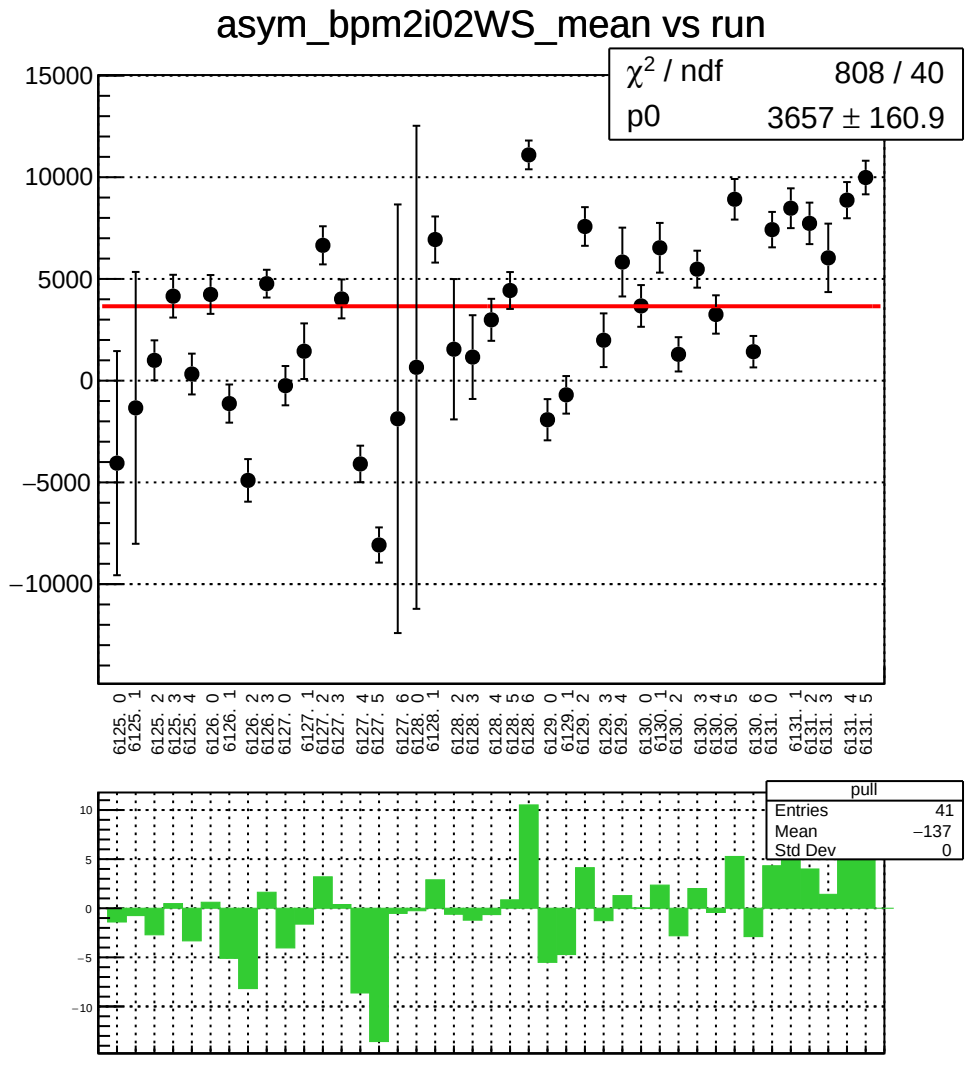

pull1D
Entries 41
Mean −0.07564
Std Dev 2.958
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

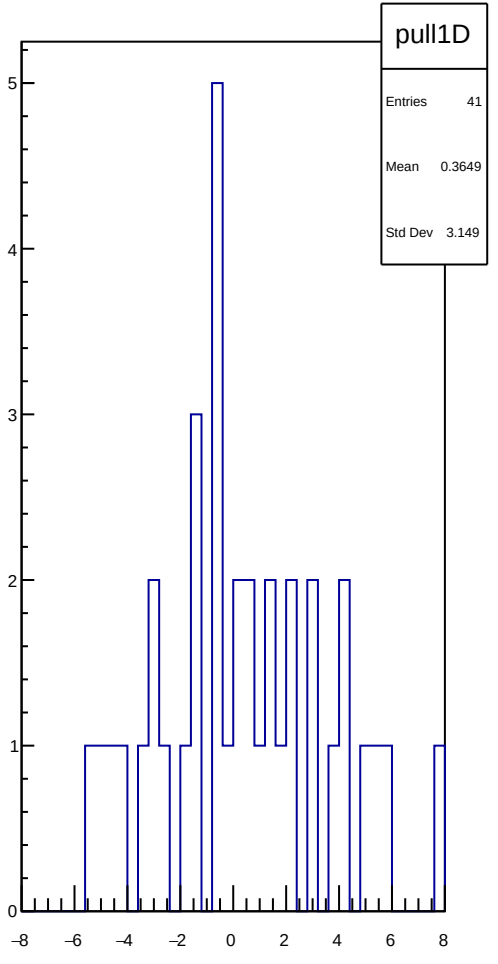

asym_bpm1i02WS_rms vs run
χ² / ndf 7.913e+04 / 40
p0 119.8 ± 0.1407
1200
1000
800
600
400
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

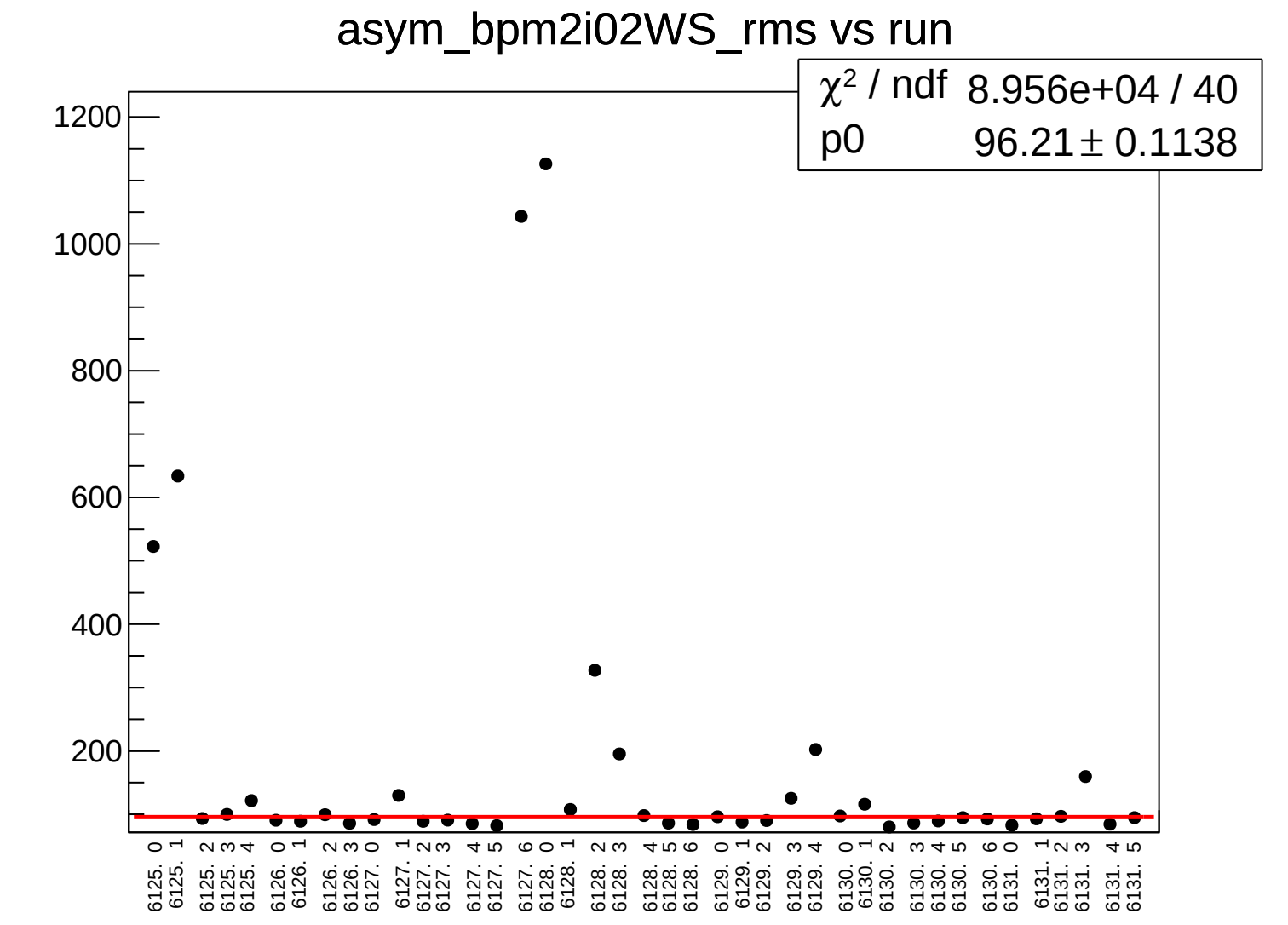

asym_bpm2i01WS_mean vs run
χ² / ndf 707.3 / 40
p0 3649 ± 167.4
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −117.9
Std Dev 0
10
5
0
−5
−10

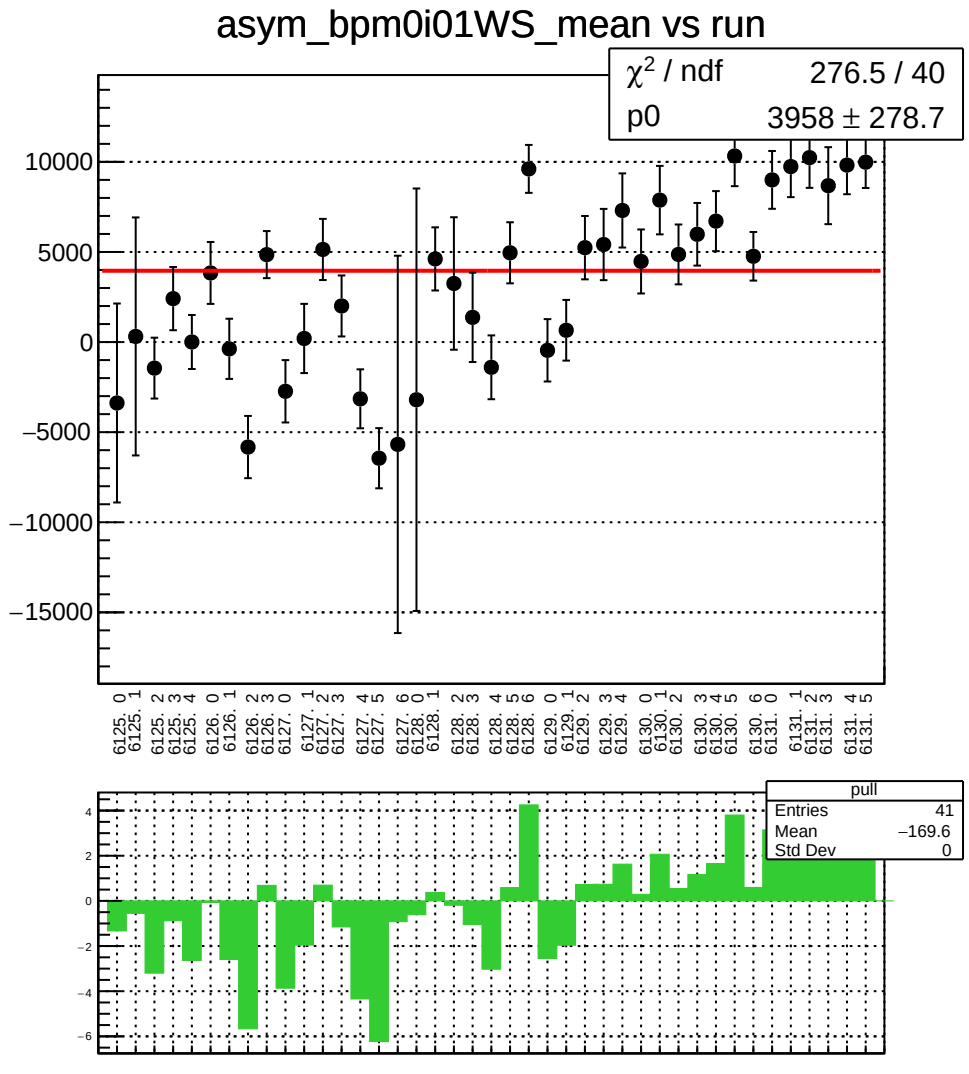

pull1D
Entries 41
Mean −0.1471
Std Dev 3.417
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

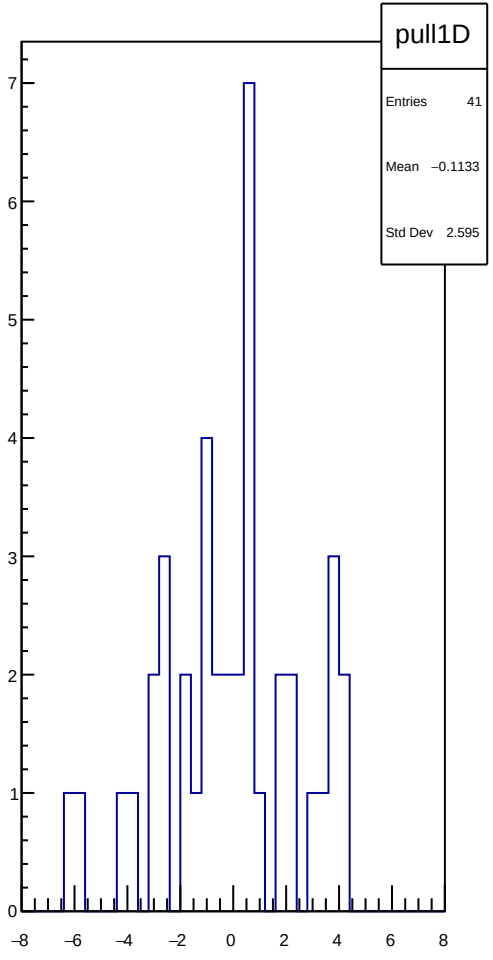

asym_bpm2i01WS_rms vs run
χ² / ndf 8.415e+04 / 40
p0 100.4 ± 0.1184
1200
1000
800
600
400
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

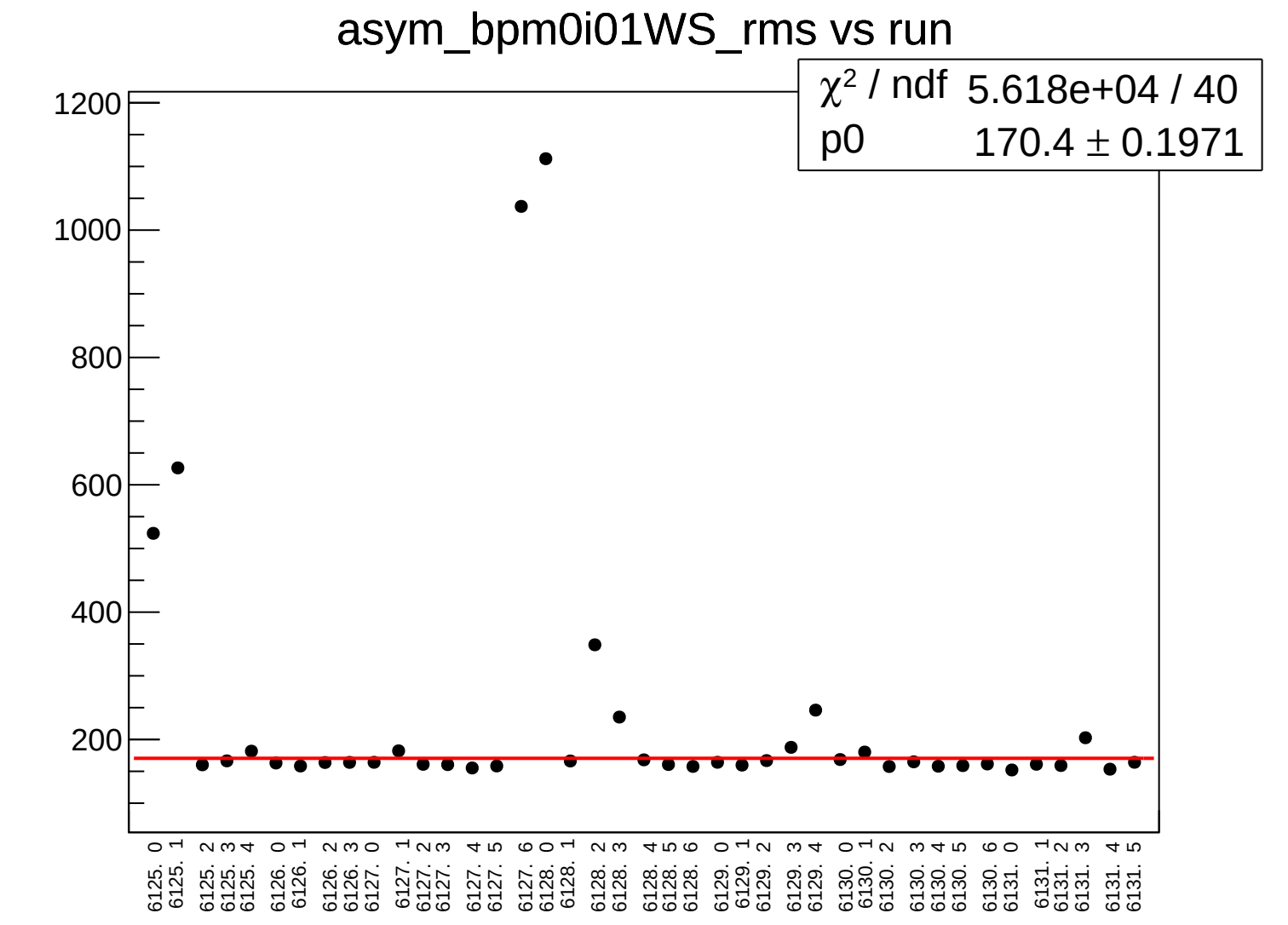

asym_bpm2i02WS_mean vs run
χ² / ndf 808 / 40
p0 3657 ± 160.9
15000
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −137
Std Dev 0
10
5
0
−5
−10

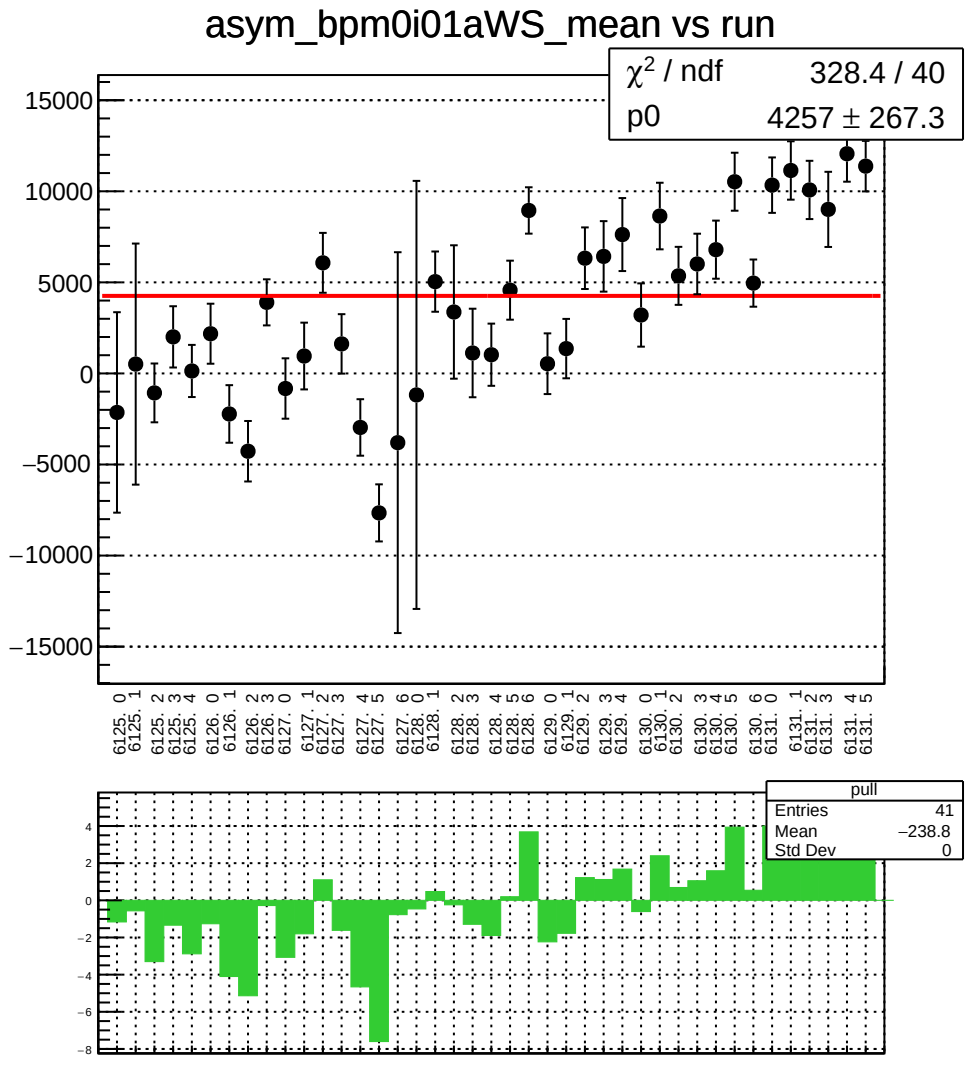

pull1D
Entries 41
Mean 0.3649
Std Dev 3.149
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

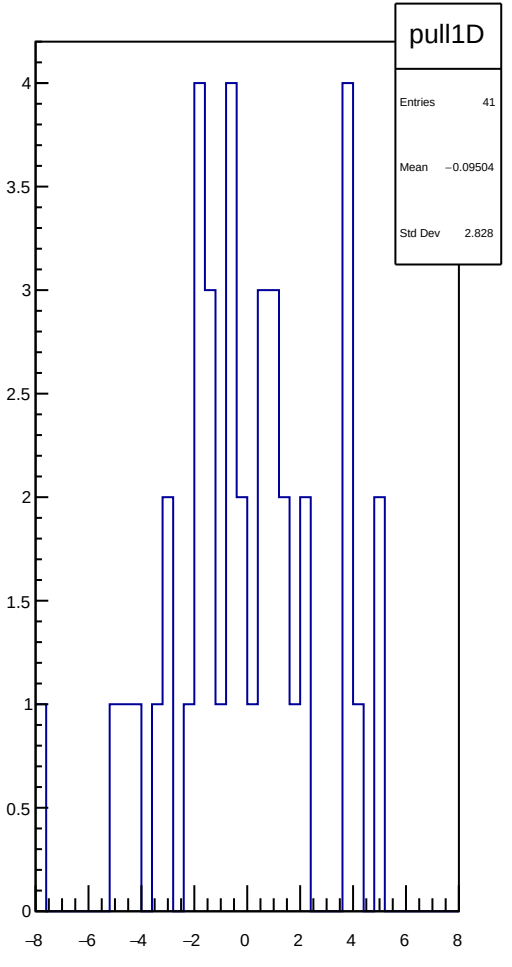

asym_bpm2i02WS_rms vs run
χ² / ndf 8.956e+04 / 40
p0 96.21 ± 0.1138
1200
1000
800
600
400
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

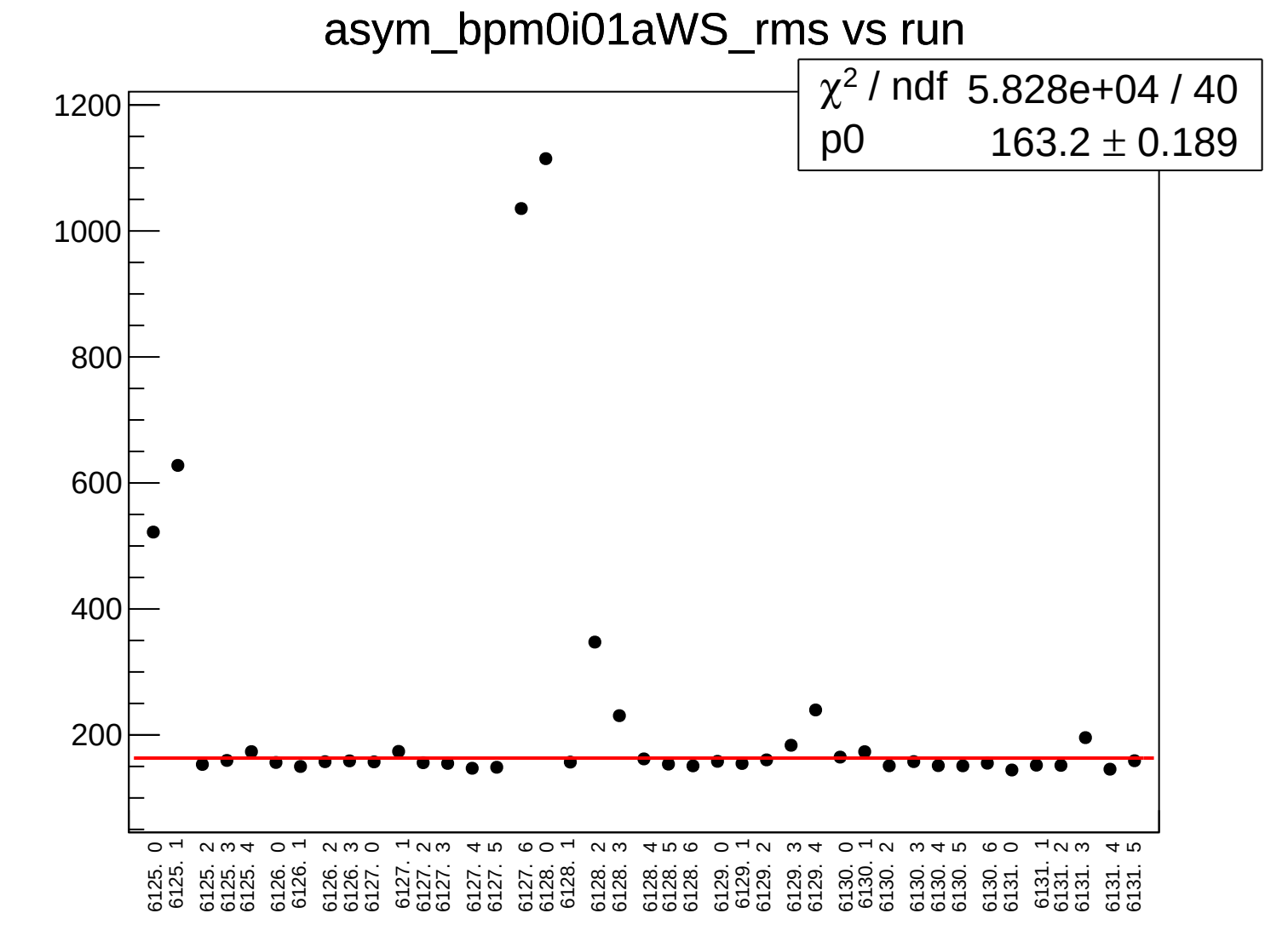

asym_bpm0i01WS_mean vs run
χ² / ndf 276.5 / 40
p0 3958 ± 278.7
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −169.6
Std Dev 0
4
2
0
−2
−4
−6

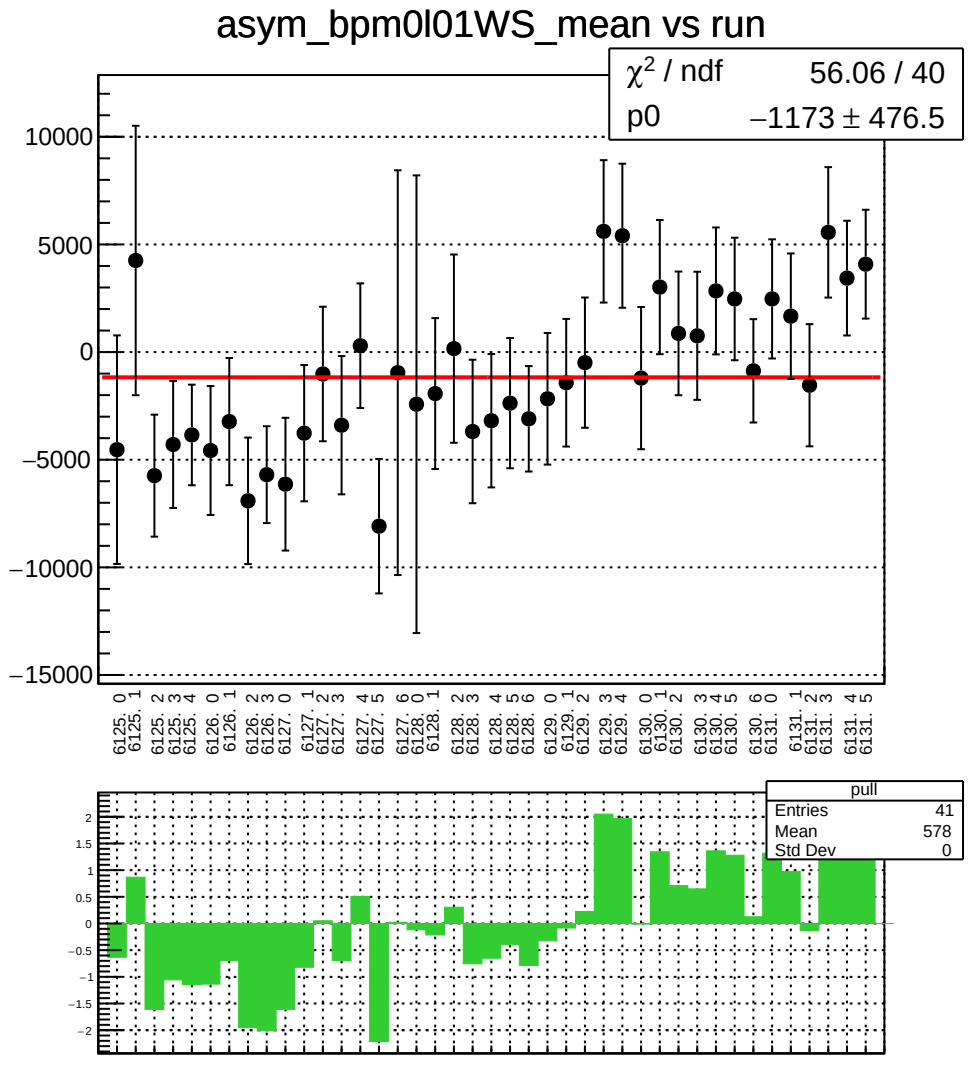

pull1D
Entries 41
Mean −0.1133
Std Dev 2.595
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

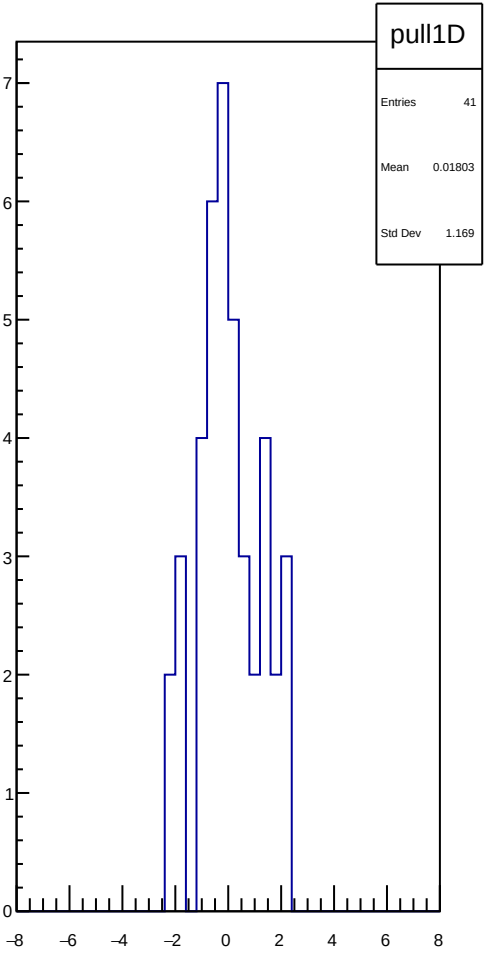

asym_bpm0i01WS_rms vs run
χ² / ndf 5.618e+04 / 40
p0 170.4 ± 0.1971
1200
1000
800
600
400
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

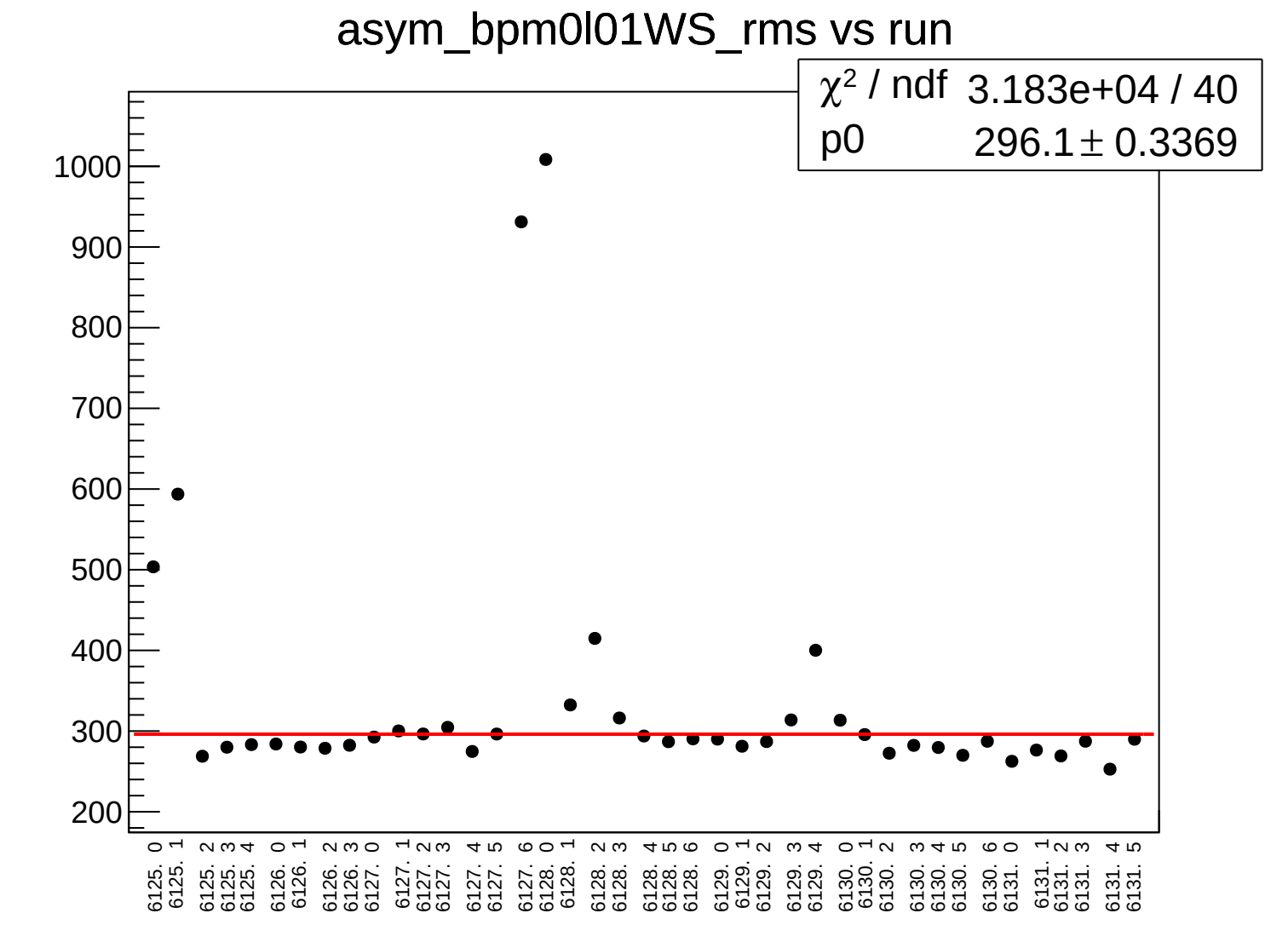

asym_bpm0i01aWS_mean vs run
χ² / ndf 328.4 / 40
p0 4257 ± 267.3
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −238.8
Std Dev 0
4
2
0
−2
−4
−6
−8

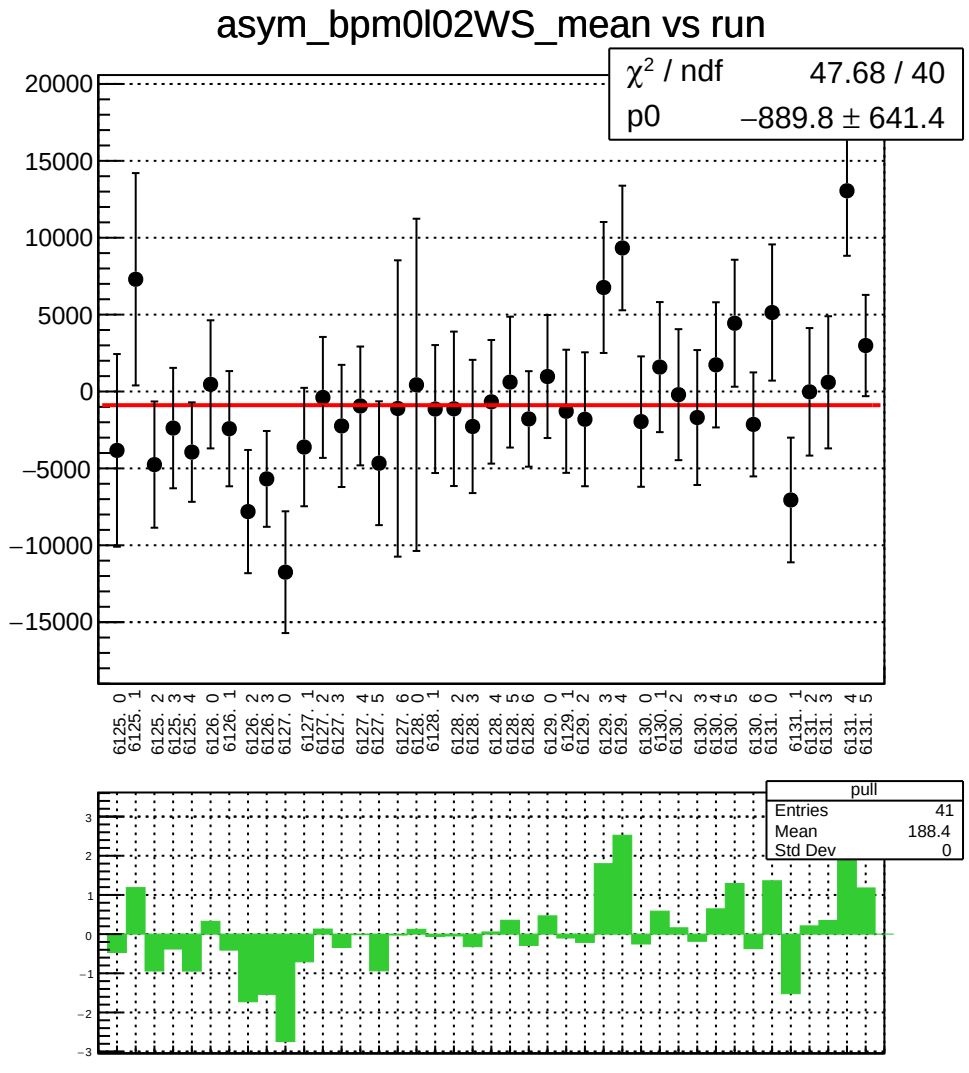

pull1D
Entries 41
Mean −0.09504
Std Dev 2.828
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

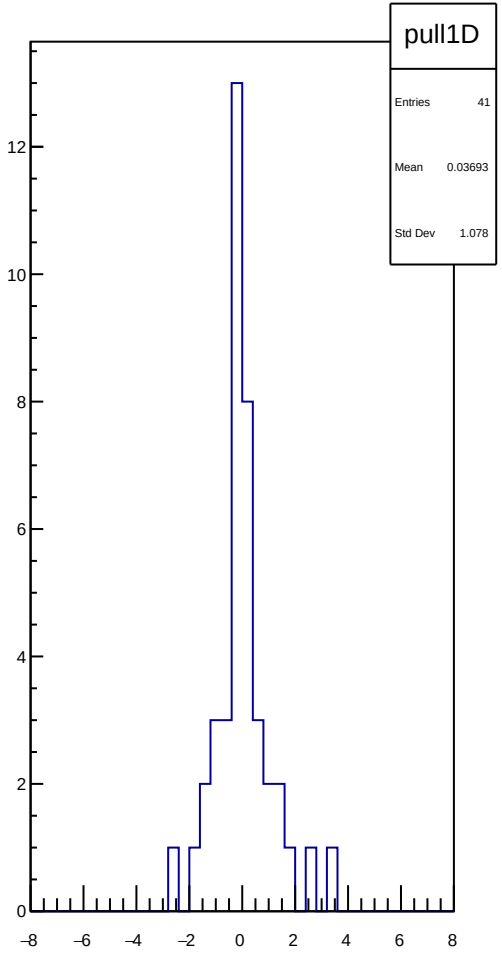

asym_bpm0i01aWS_rms vs run
χ² / ndf 5.828e+04 / 40
p0 163.2 ± 0.189
1200
1000
800
600
400
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

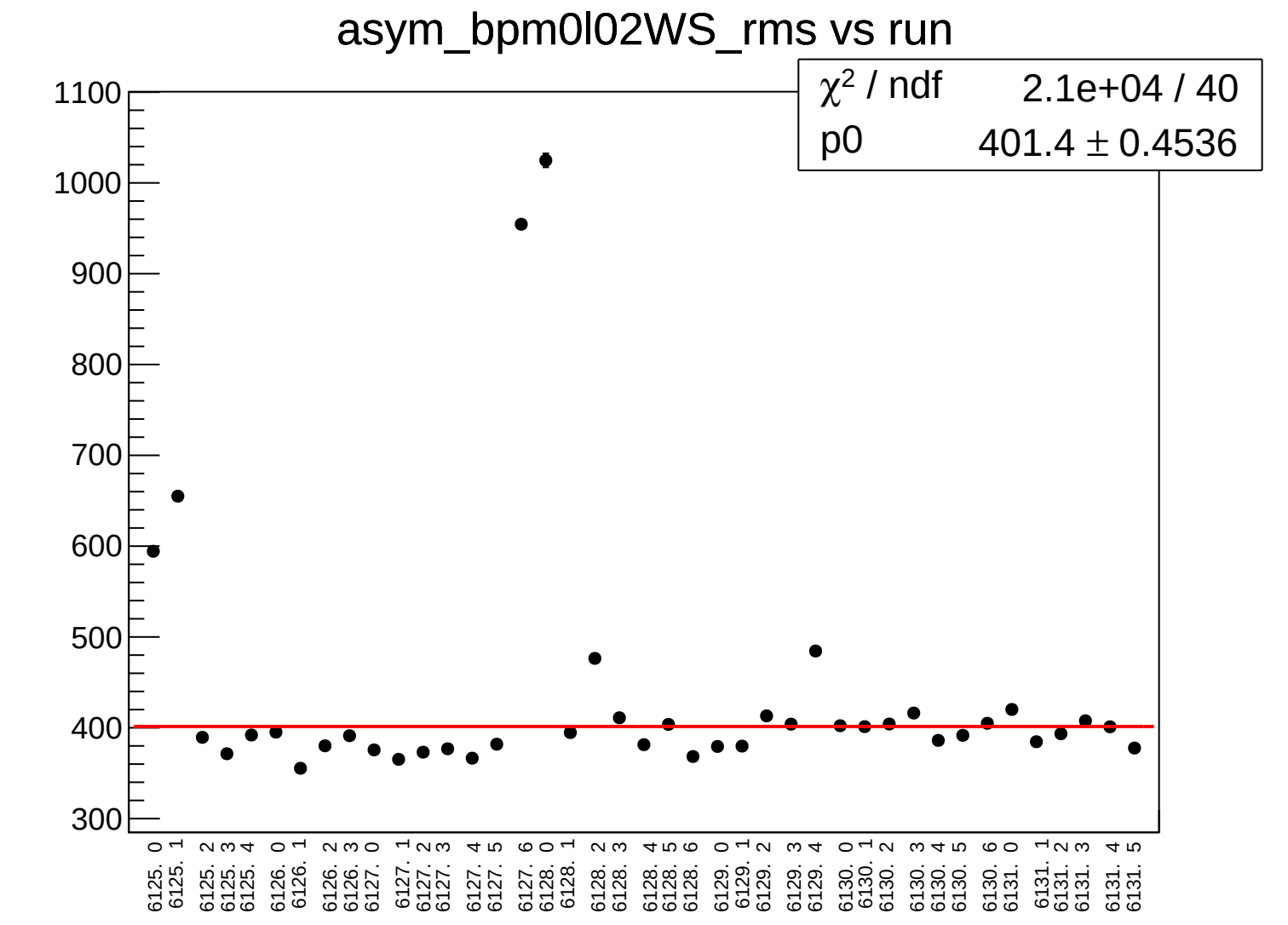

asym_bpm0l01WS_mean vs run
χ² / ndf 56.06 / 40
p0 −1173 ± 476.5
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 578
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

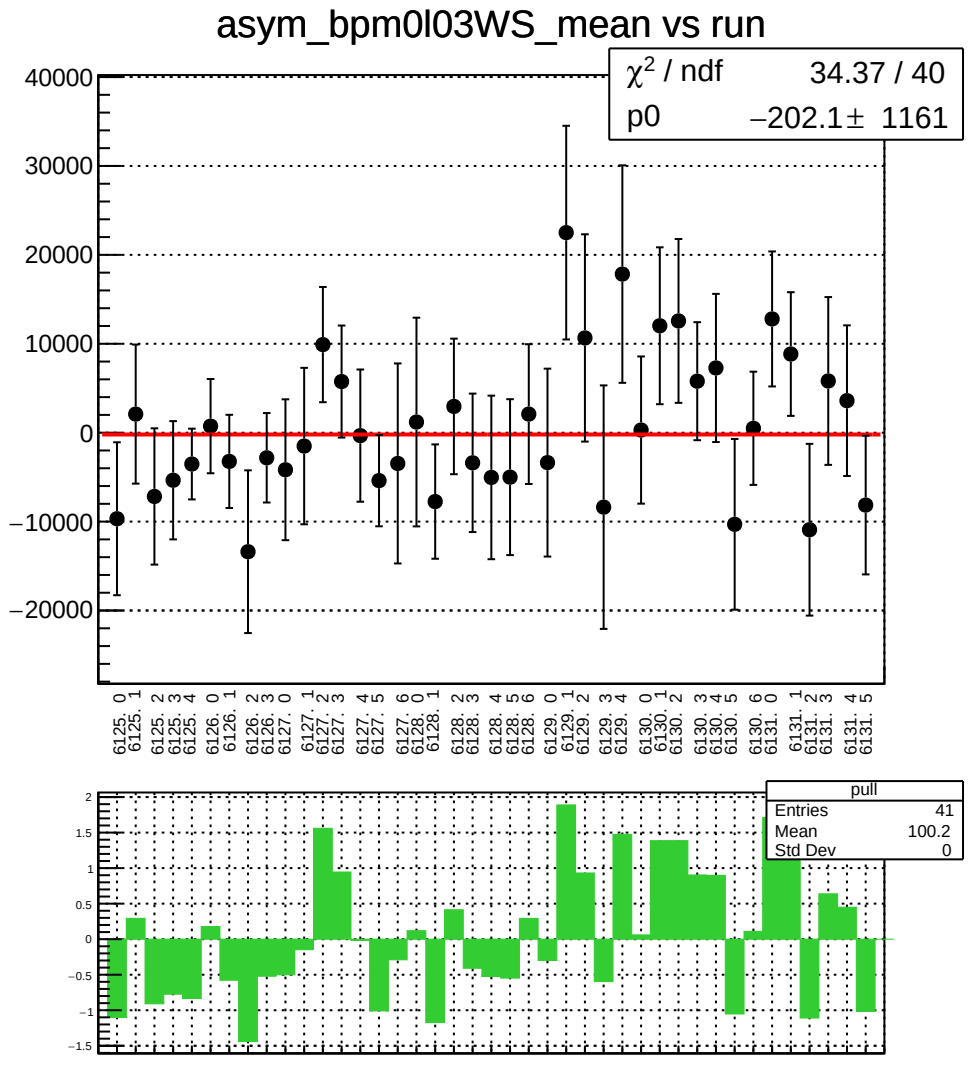

pull1D
Entries 41
Mean 0.01803
Std Dev 1.169
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

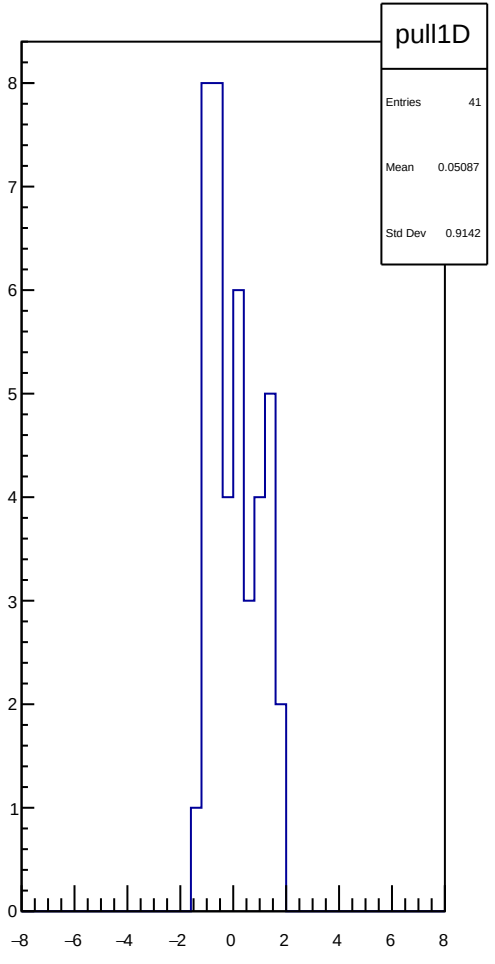

asym_bpm0l01WS_rms vs run
χ² / ndf 3.183e+04 / 40
p0 296.1 ± 0.3369
1000
900
800
700
600
500
400
300
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

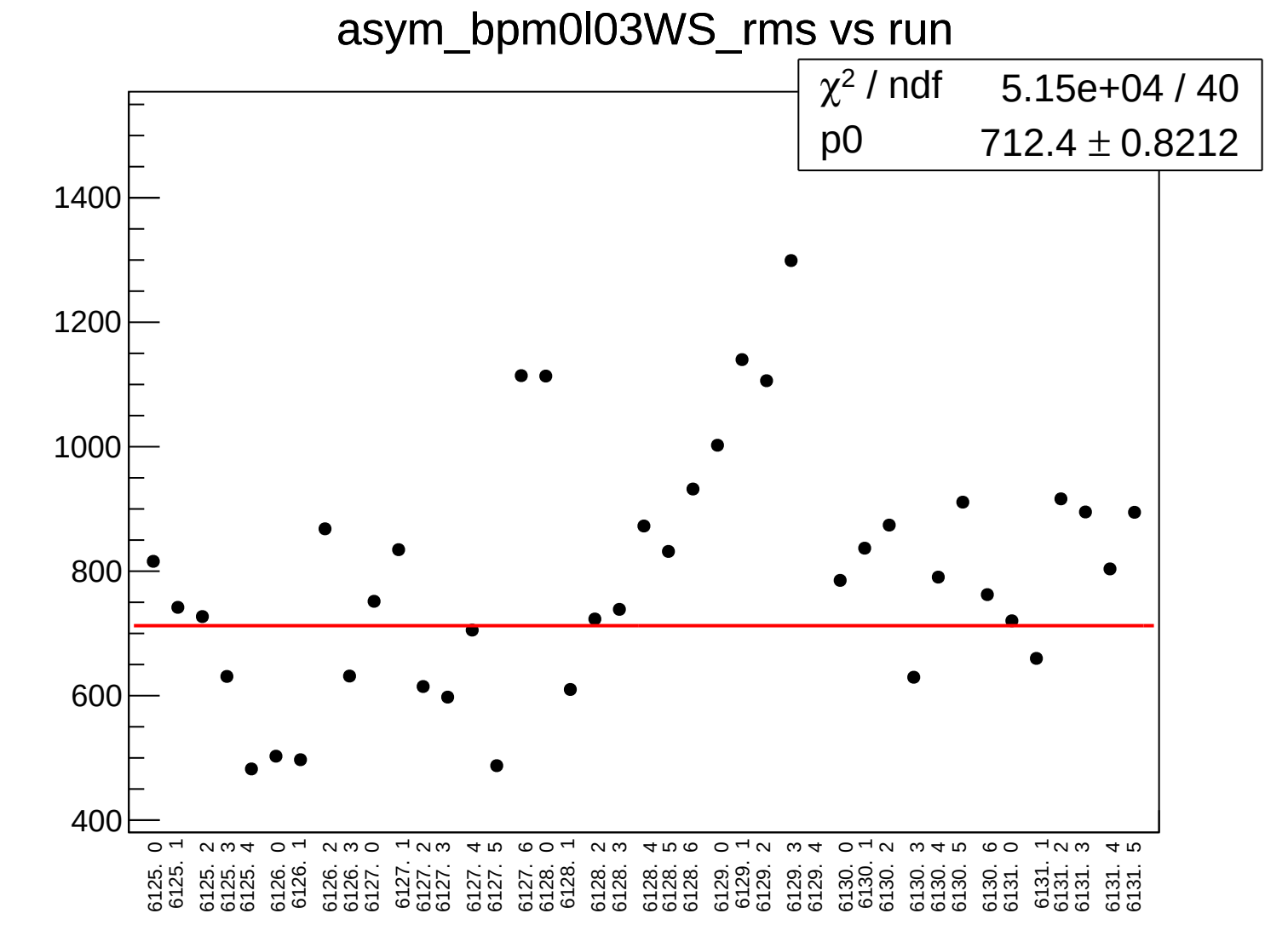

asym_bpm0l02WS_mean vs run
χ² / ndf 47.68 / 40
p0 −889.8 ± 641.4
pull
Entries 41
Mean 188.4
Std Dev 0

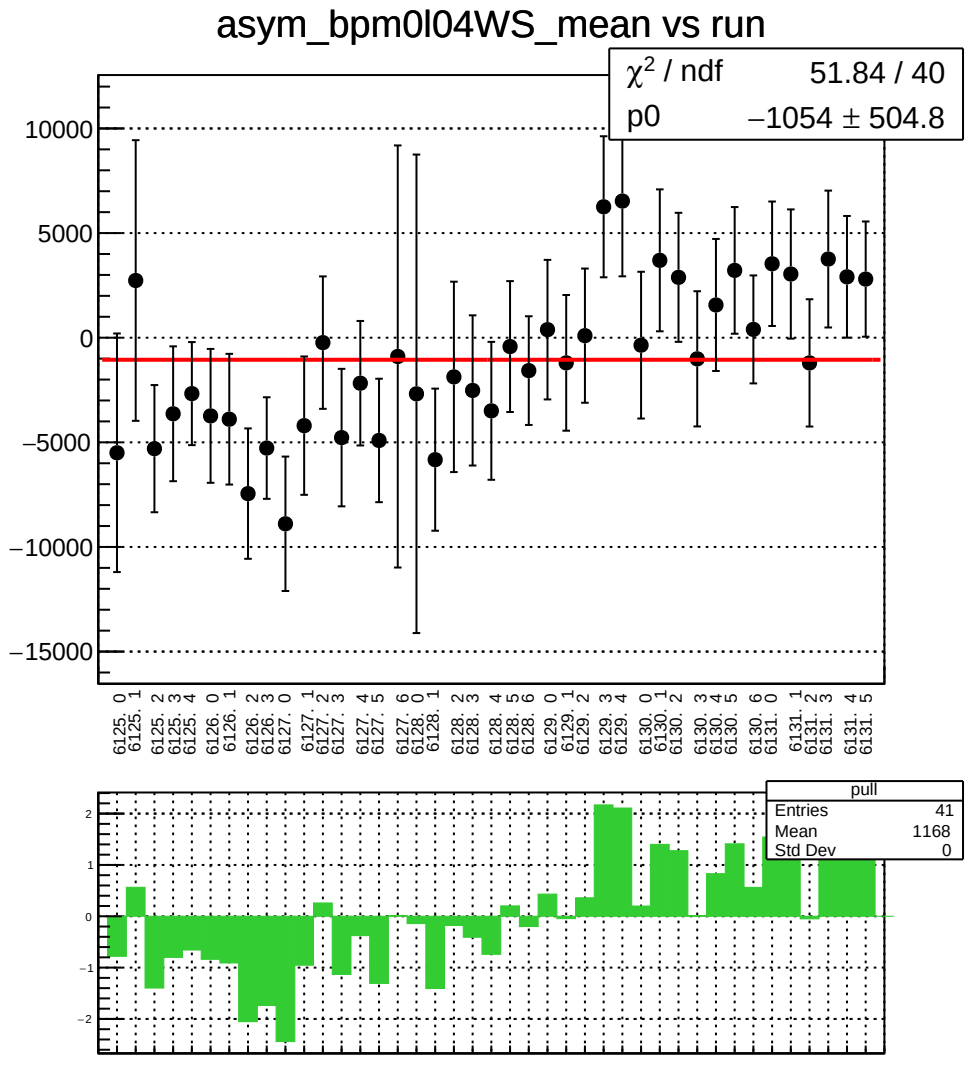

pull1D
Entries 41
Mean 0.03693
Std Dev 1.078

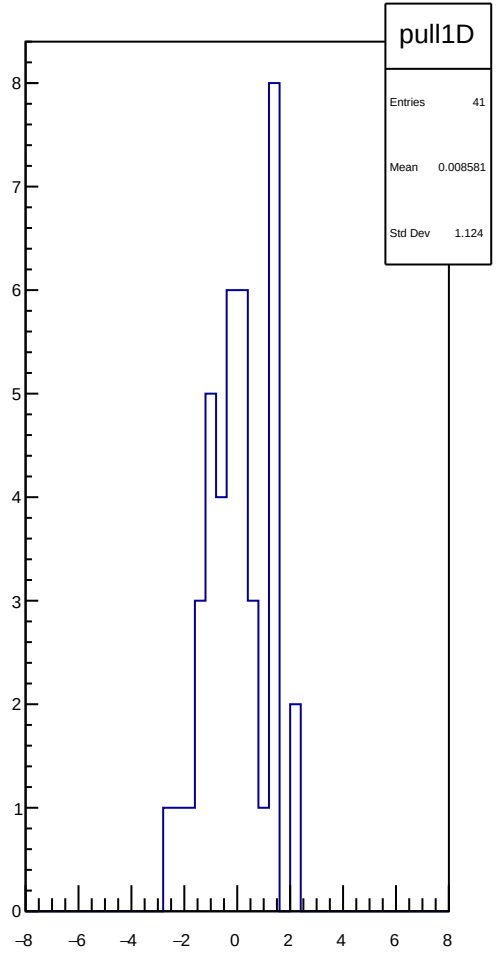

asym_bpm0l02WS_rms vs run
χ² / ndf 2.1e+04 / 40
p0 401.4 ± 0.4536
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

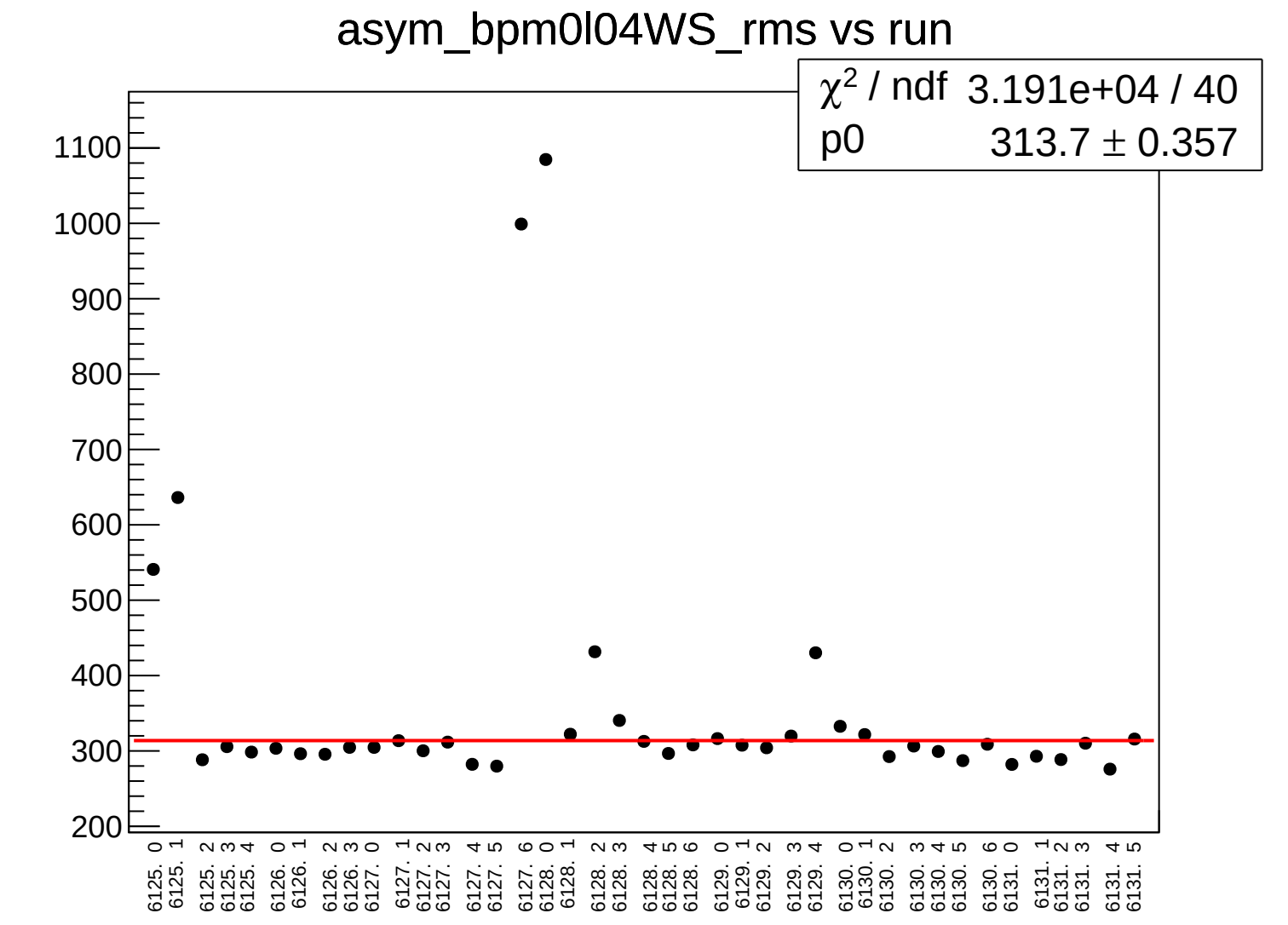

asym_bpm0l03WS_mean vs run
χ² / ndf 34.37 / 40
p0 −202.1± 1161
pull
Entries 41
Mean 100.2
Std Dev 0

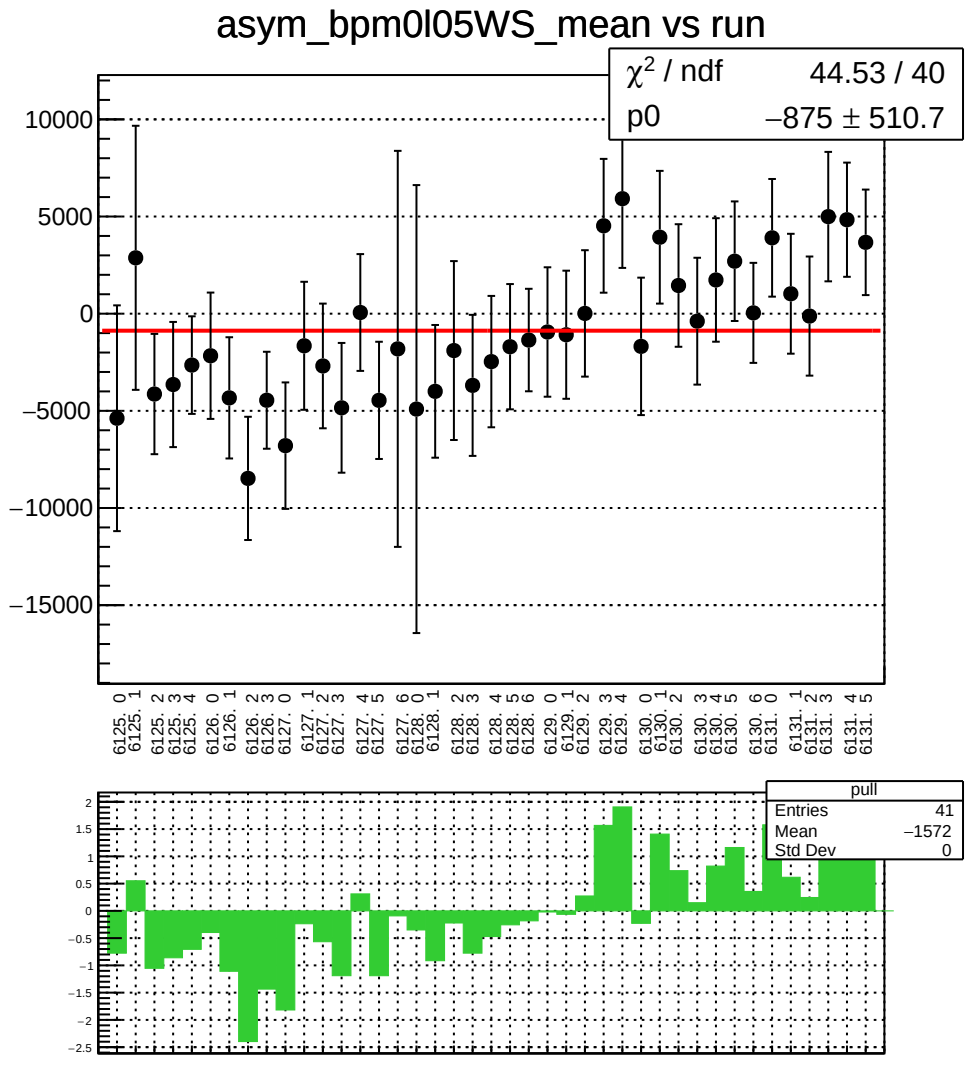

pull1D
Entries 41
Mean 0.05087
Std Dev 0.9142

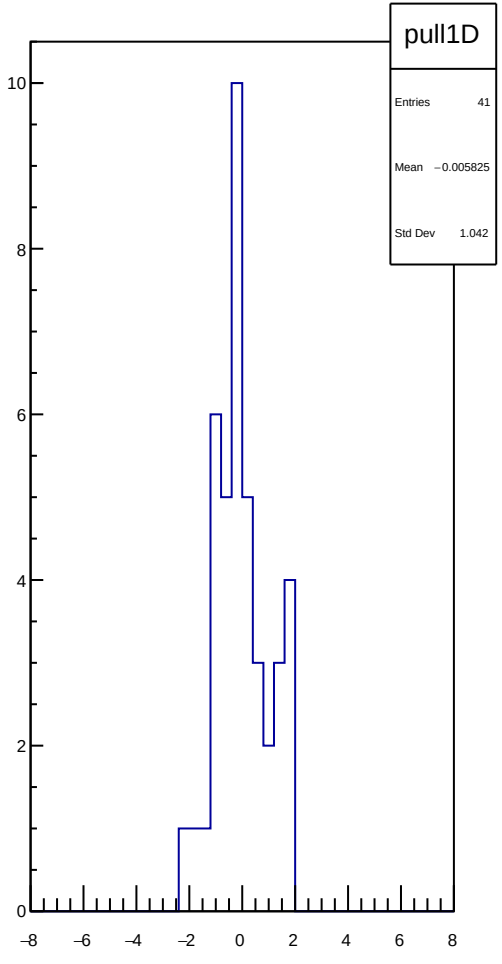

asym_bpm0l03WS_rms vs run
χ² / ndf 5.15e+04 / 40
p0 712.4 ± 0.8212
1400
1200
1000
800
600
400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

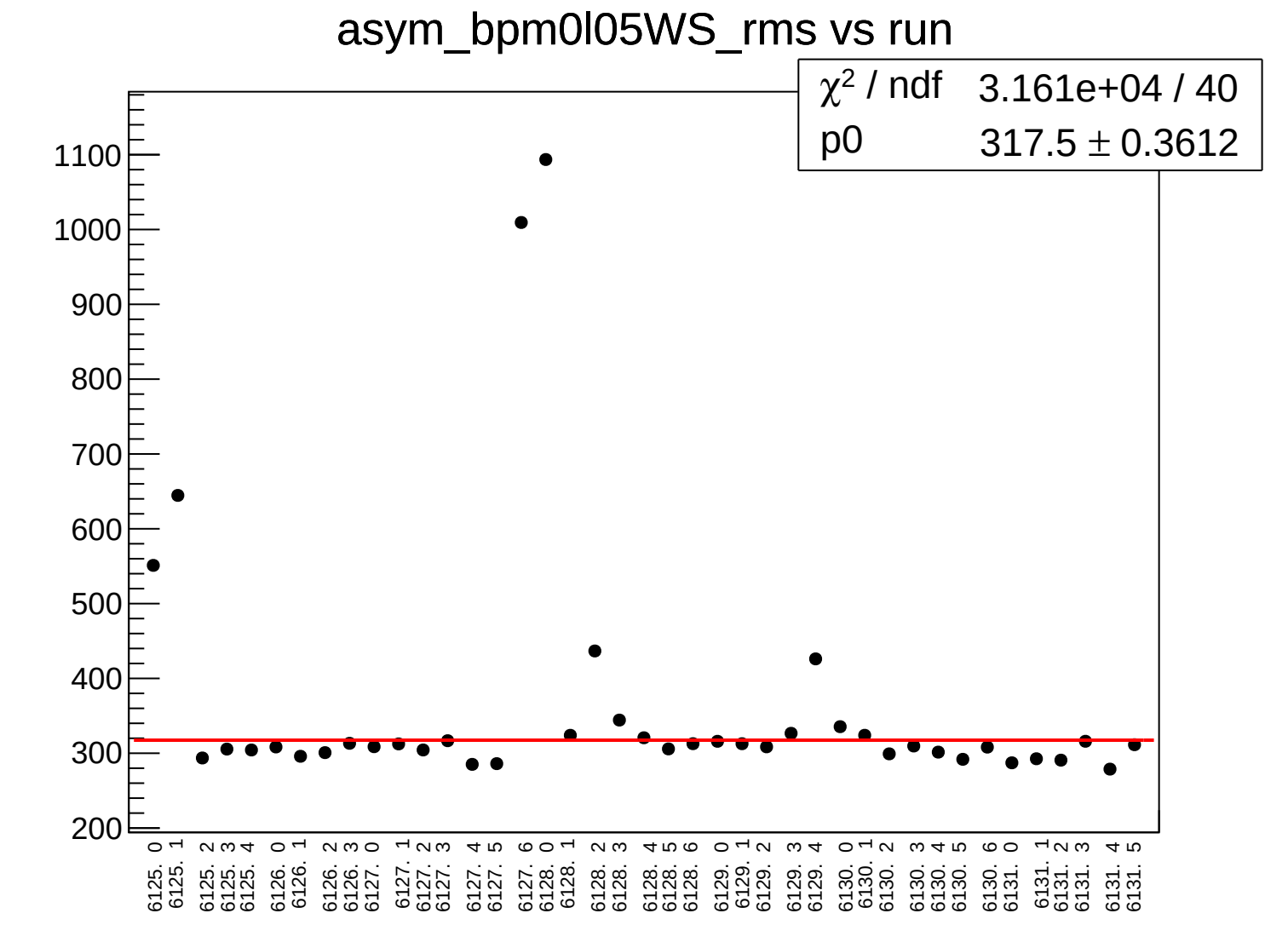

asym_bpm0l04WS_mean vs run
χ² / ndf 51.84 / 40
p0 −1054 ± 504.8
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1168
Std Dev 0
2
1
0
−1
−2

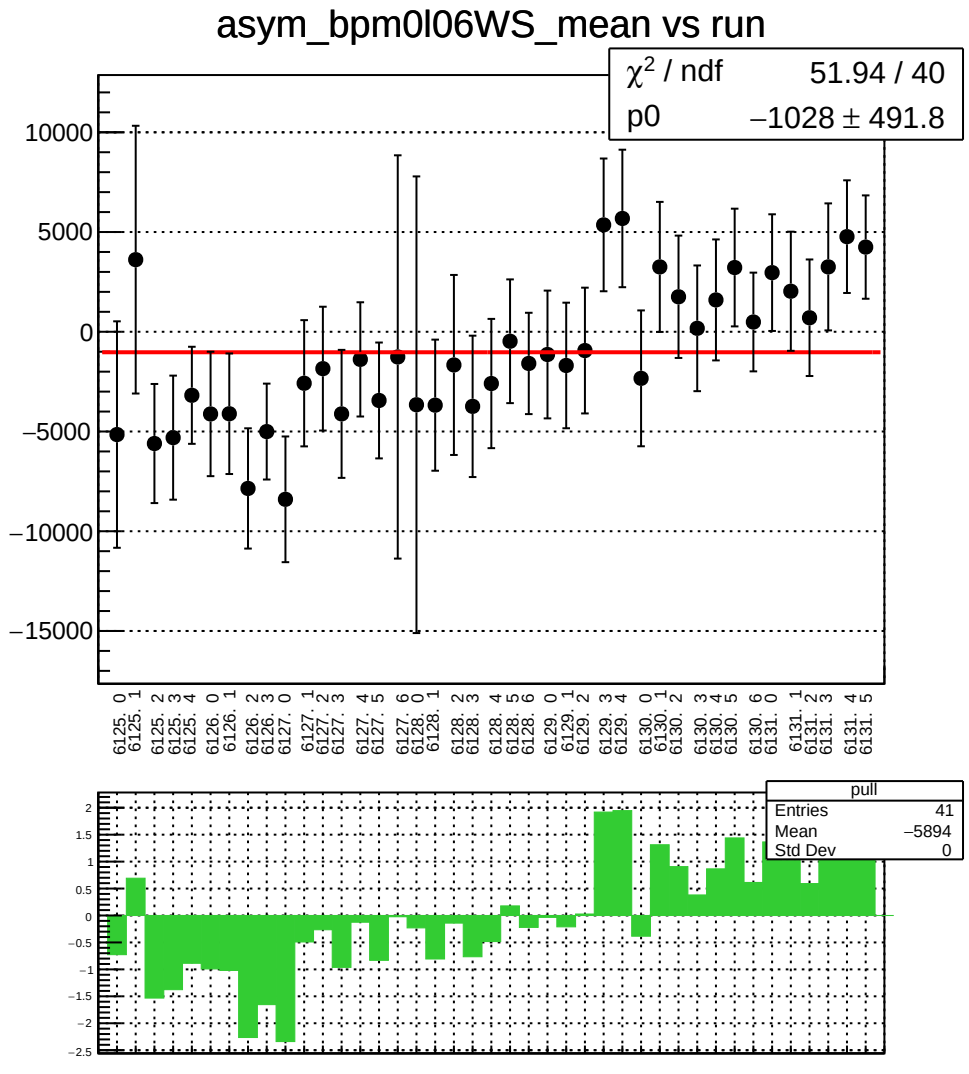

pull1D
Entries 41
Mean 0.008581
Std Dev 1.124
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

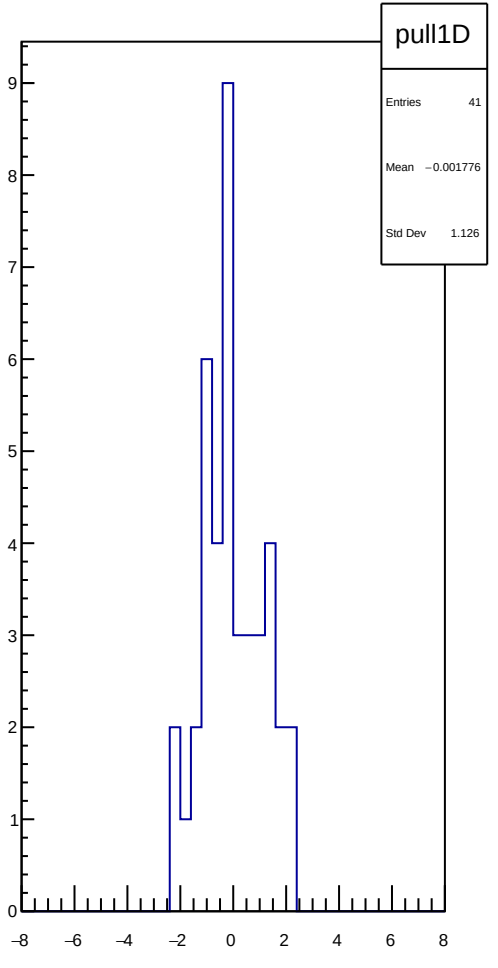

asym_bpm0l04WS_rms vs run
χ² / ndf 3.191e+04 / 40
p0 313.7 ± 0.357
1100
1000
900
800
700
600
500
400
300
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

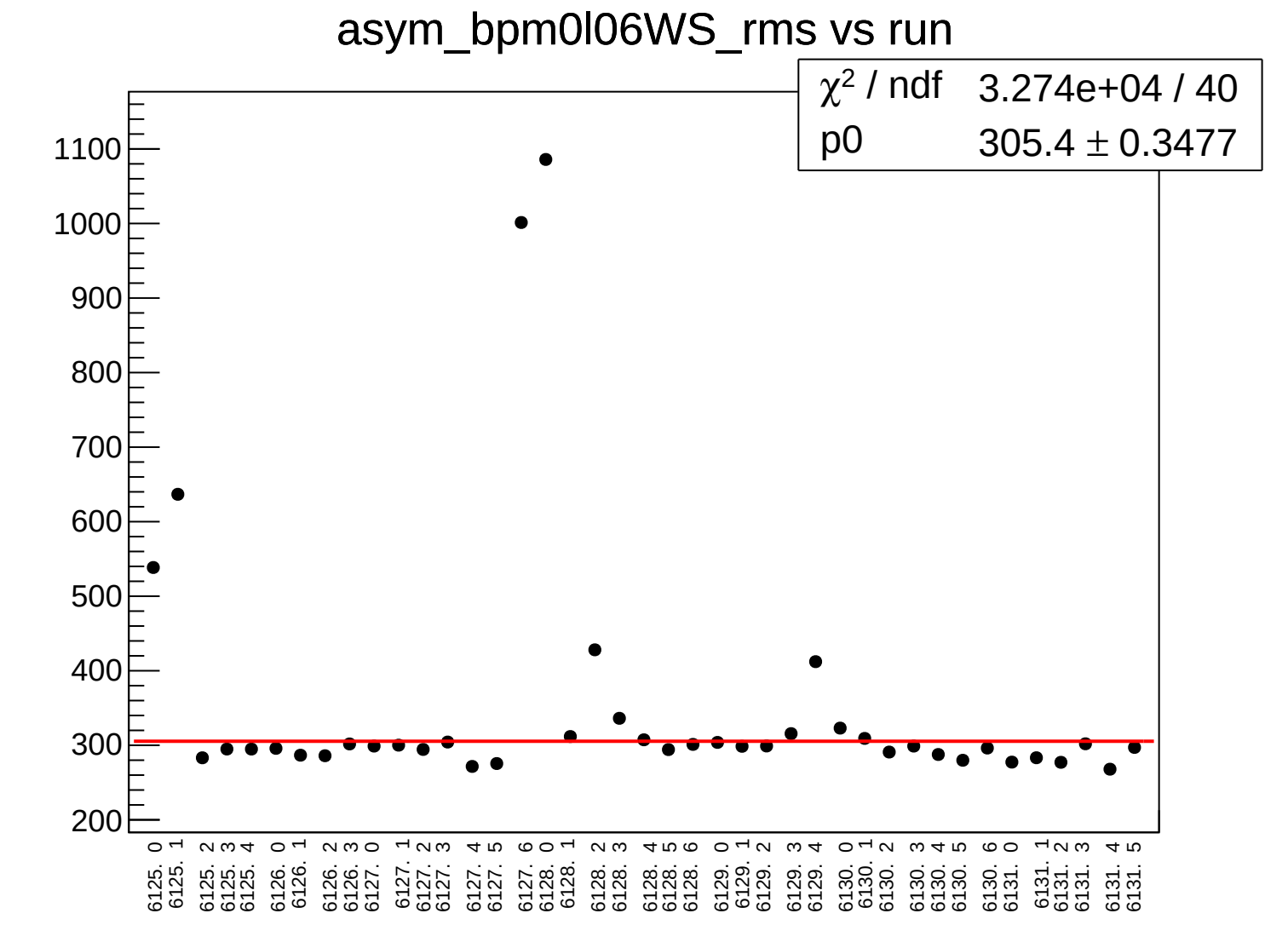

asym_bpm0l05WS_mean vs run
χ² / ndf 44.53 / 40
p0 −875 ± 510.7
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1572
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

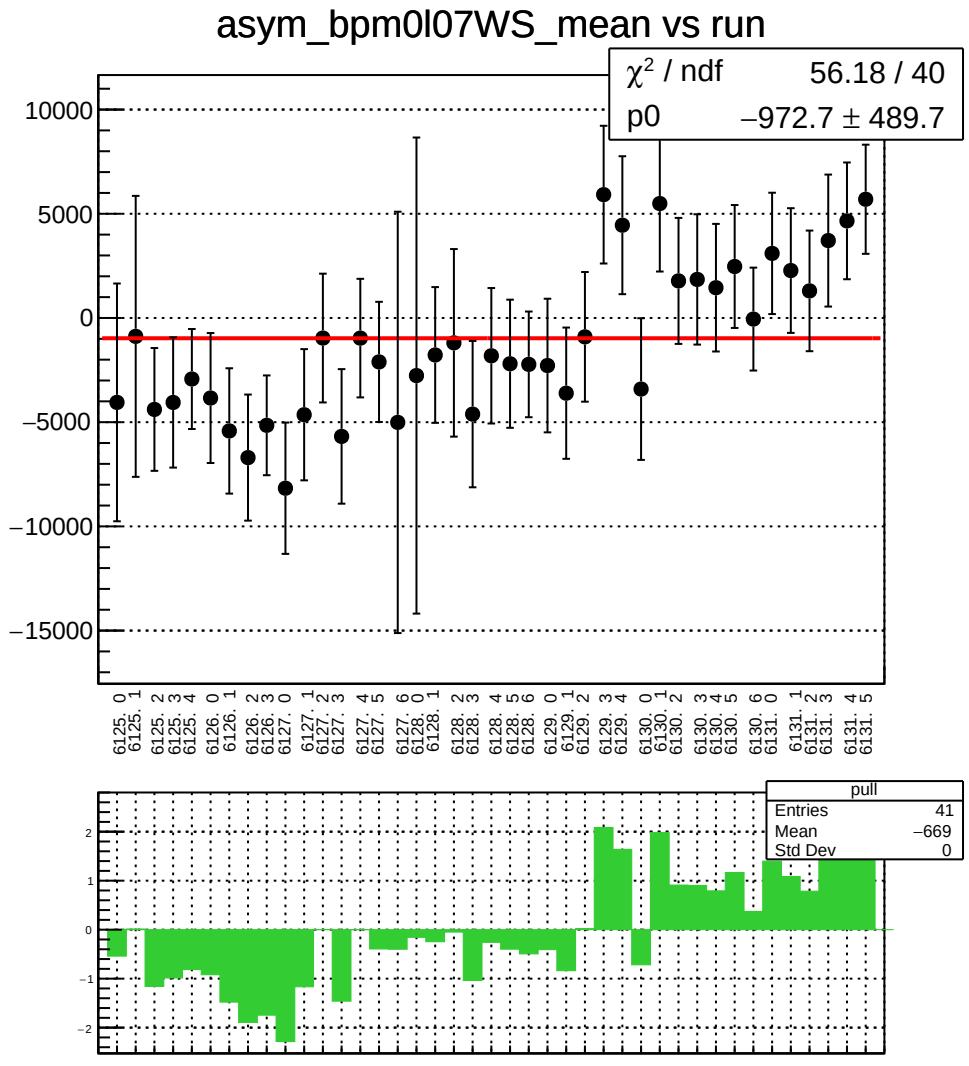

pull1D
Entries 41
Mean −0.005825
Std Dev 1.042
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

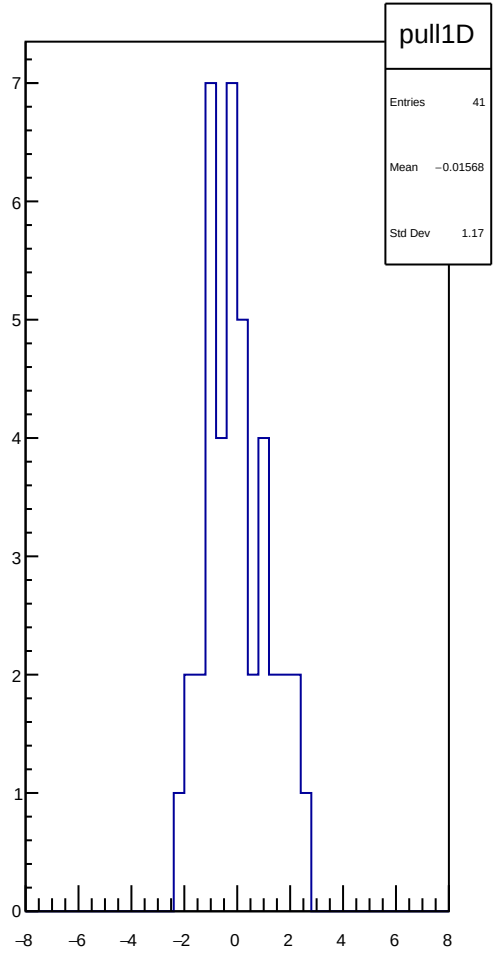

asym_bpm0l05WS_rms vs run
χ² / ndf 3.161e+04 / 40
p0 317.5 ± 0.3612
1100
1000
900
800
700
600
500
400
300
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

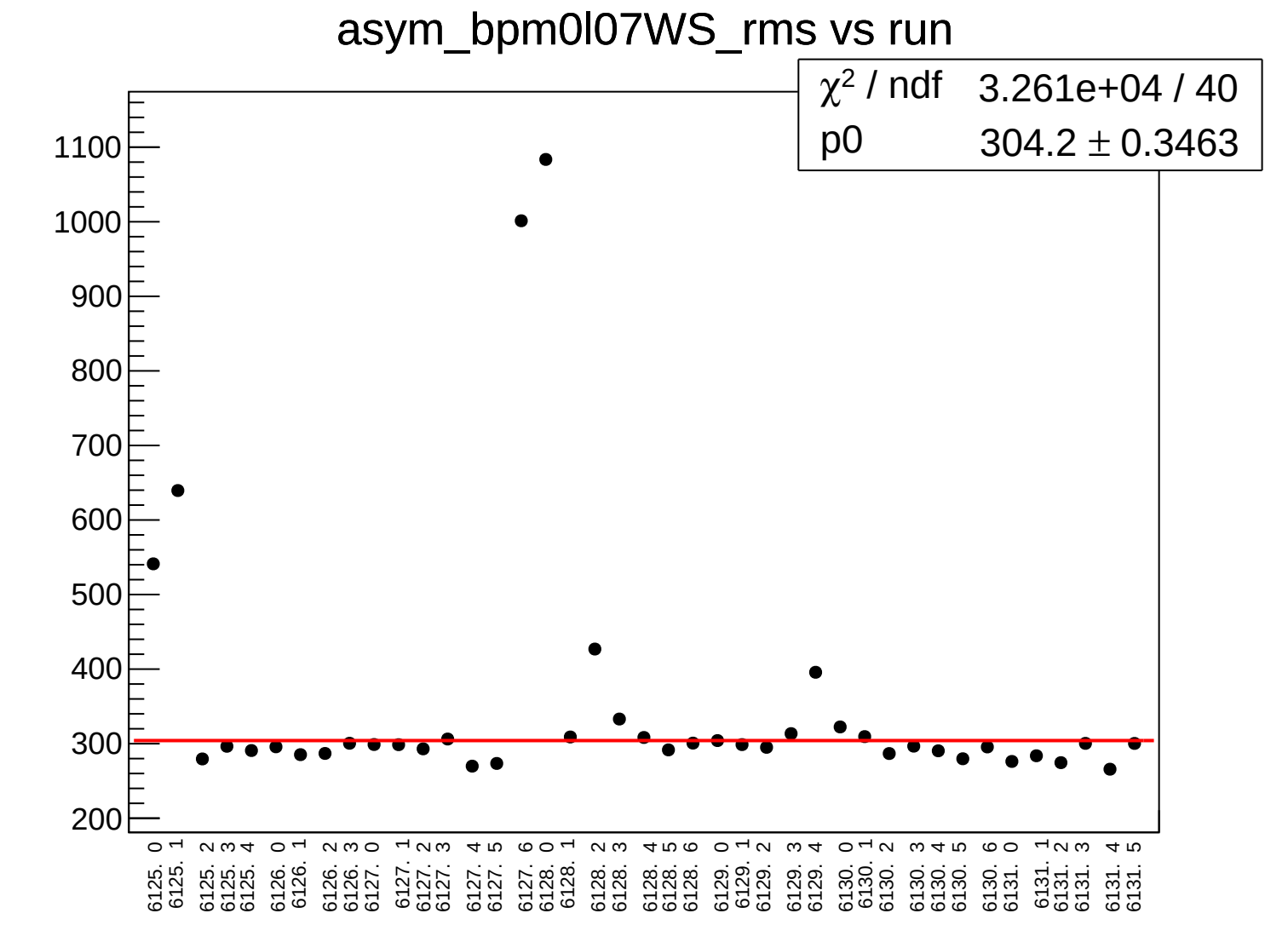

asym_bpm0l06WS_mean vs run
χ² / ndf 51.94 / 40
p0 −1028 ± 491.8
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −5894
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

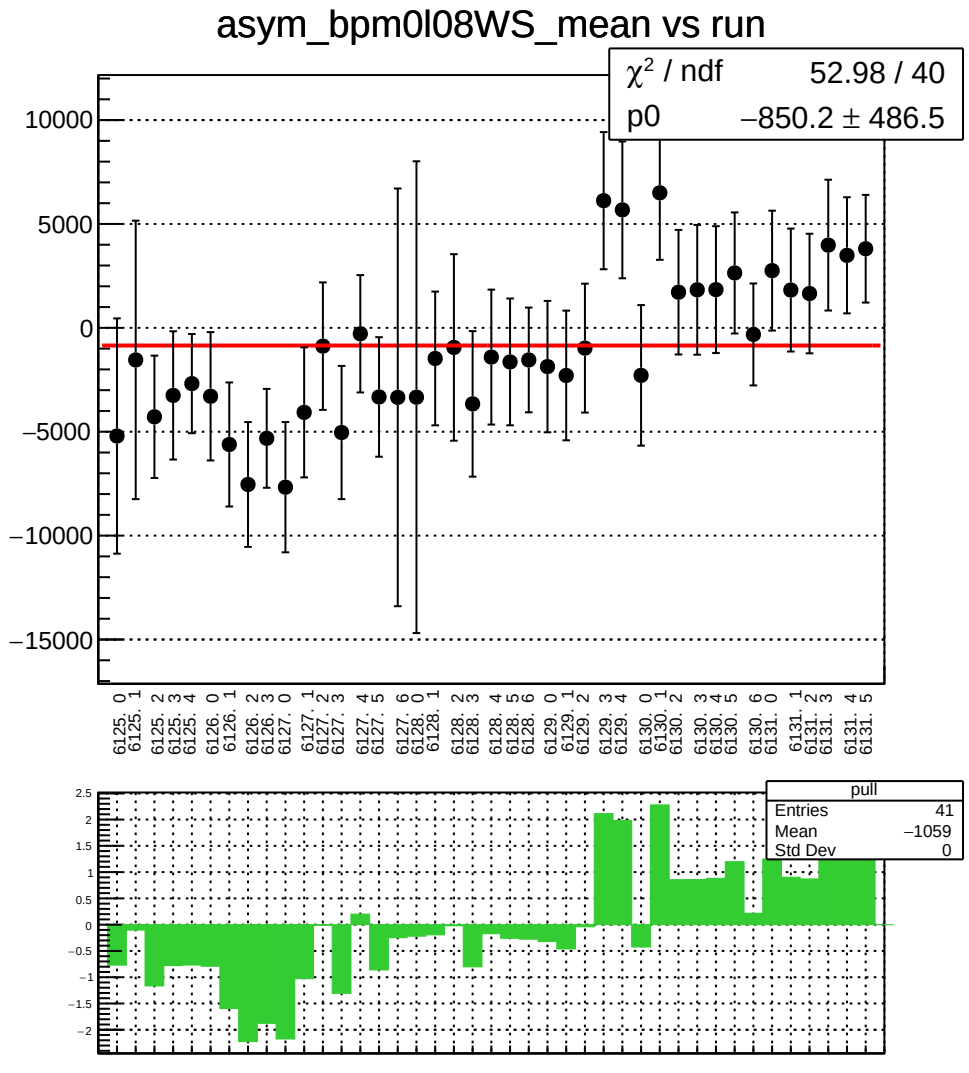

pull1D
Entries 41
Mean −0.001776
Std Dev 1.126
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

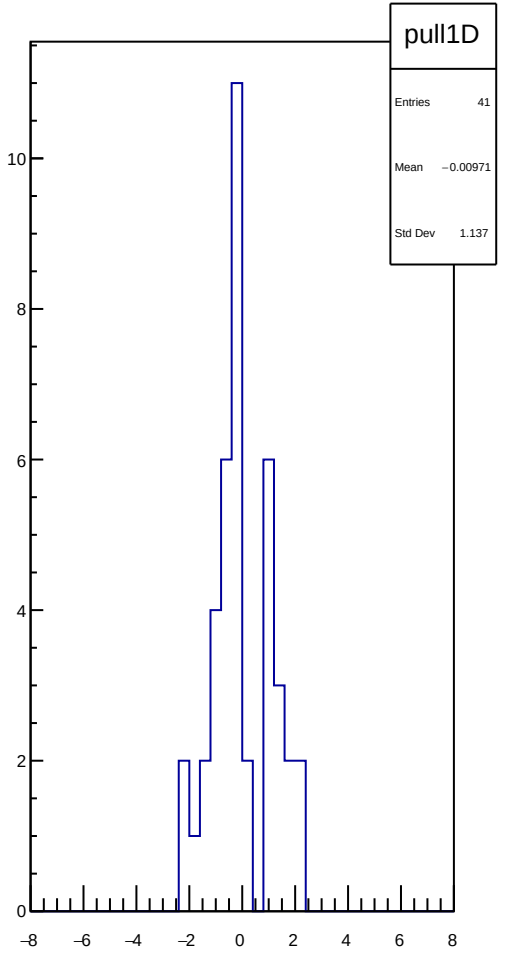

asym_bpm0l06WS_rms vs run
χ² / ndf 3.274e+04 / 40
p0 305.4 ± 0.3477
1100
1000
900
800
700
600
500
400
300
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

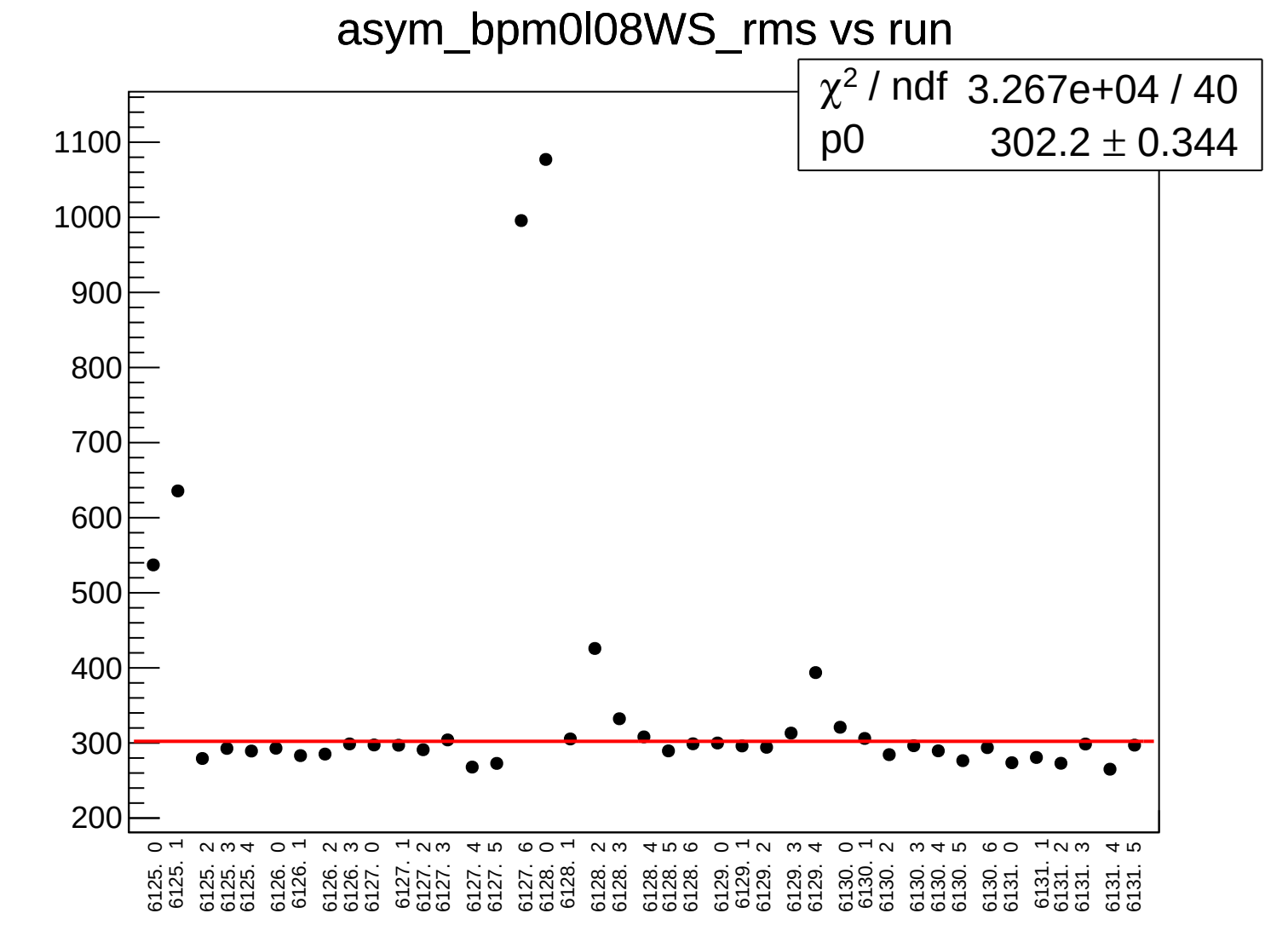

asym_bpm0l07WS_mean vs run
χ² / ndf 56.18 / 40
p0 −972.7 ± 489.7
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −669
Std Dev 0
2
1
0
−1
−2

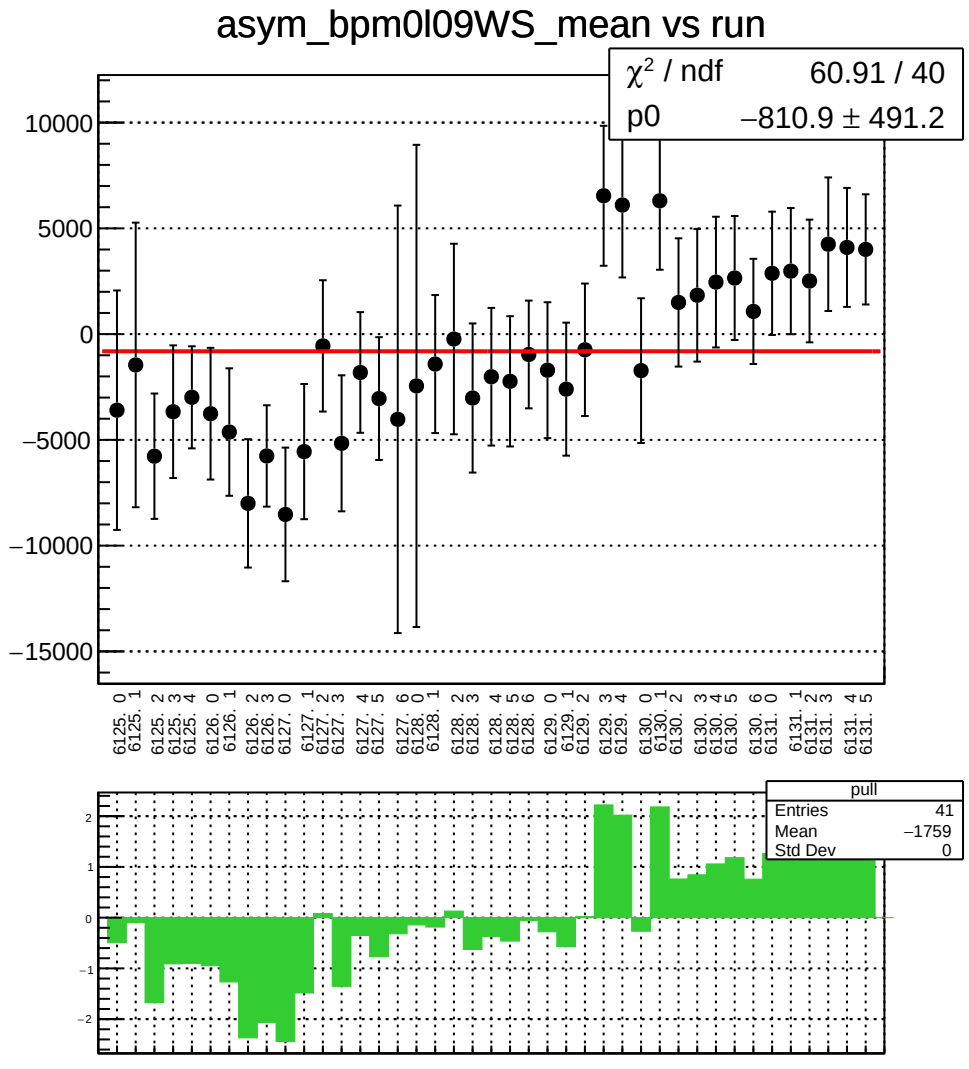

pull1D
Entries 41
Mean −0.01568
Std Dev 1.17
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

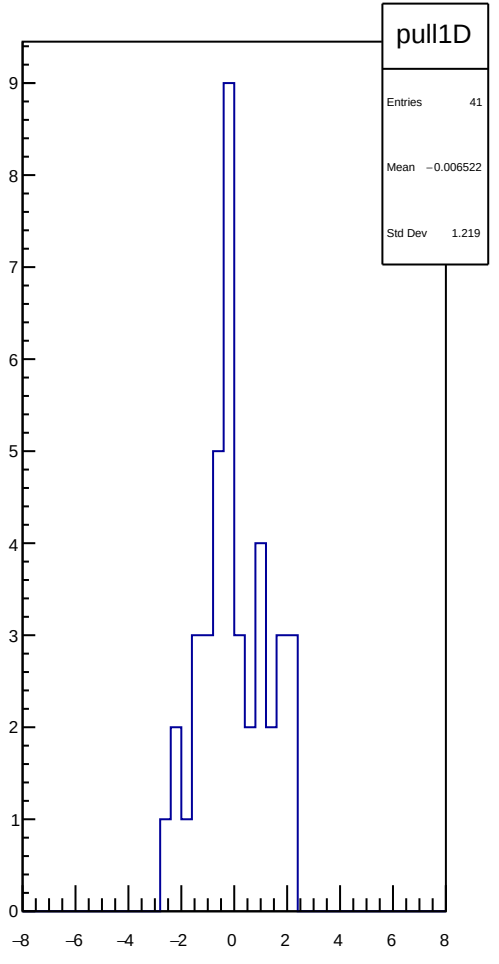

asym_bpm0l07WS_rms vs run
χ² / ndf 3.261e+04 / 40
p0 304.2 ± 0.3463
1100
1000
900
800
700
600
500
400
300
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

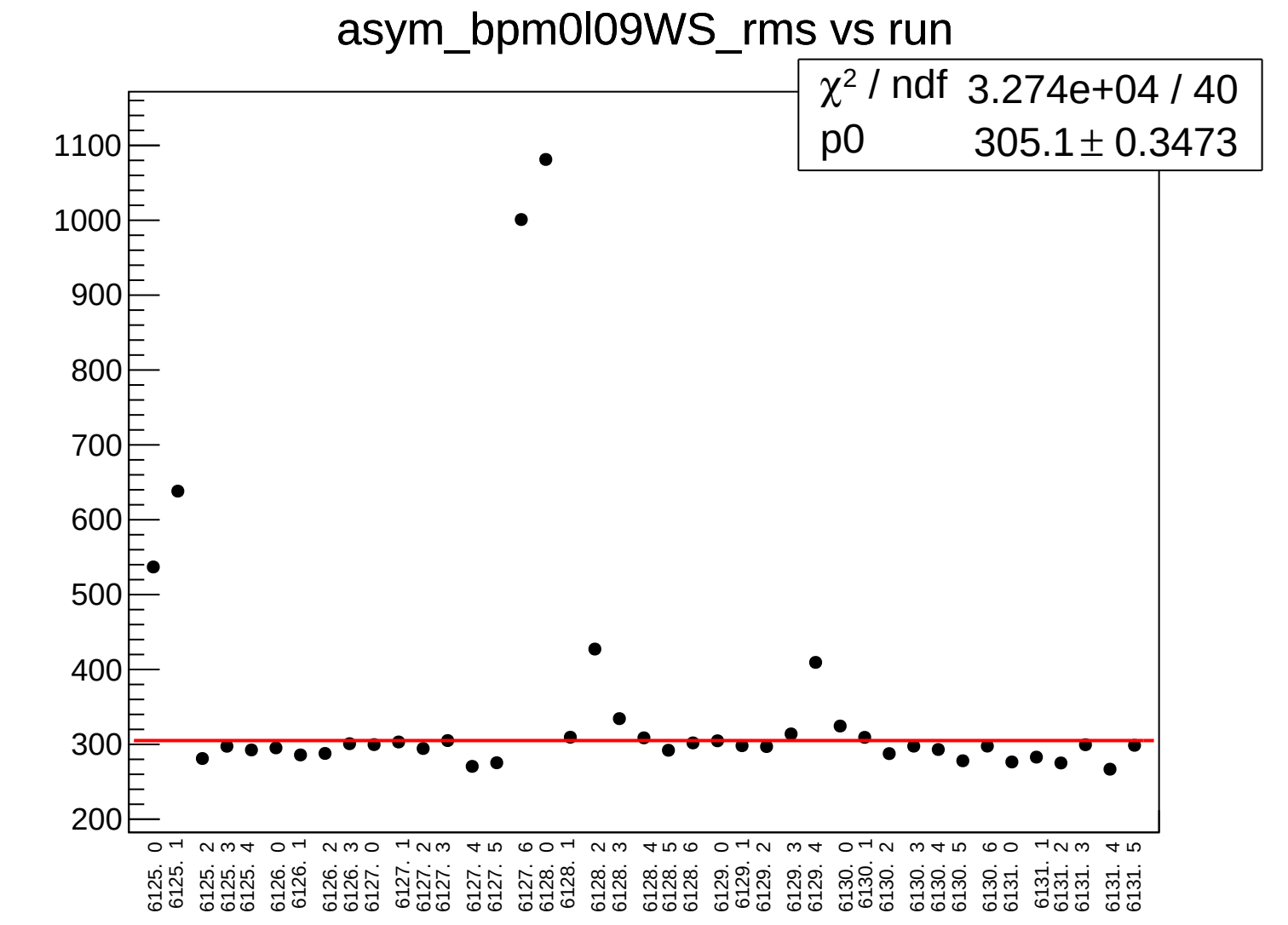

asym_bpm0l08WS_mean vs run
χ² / ndf 52.98 / 40
p0 −850.2 ± 486.5
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1059
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

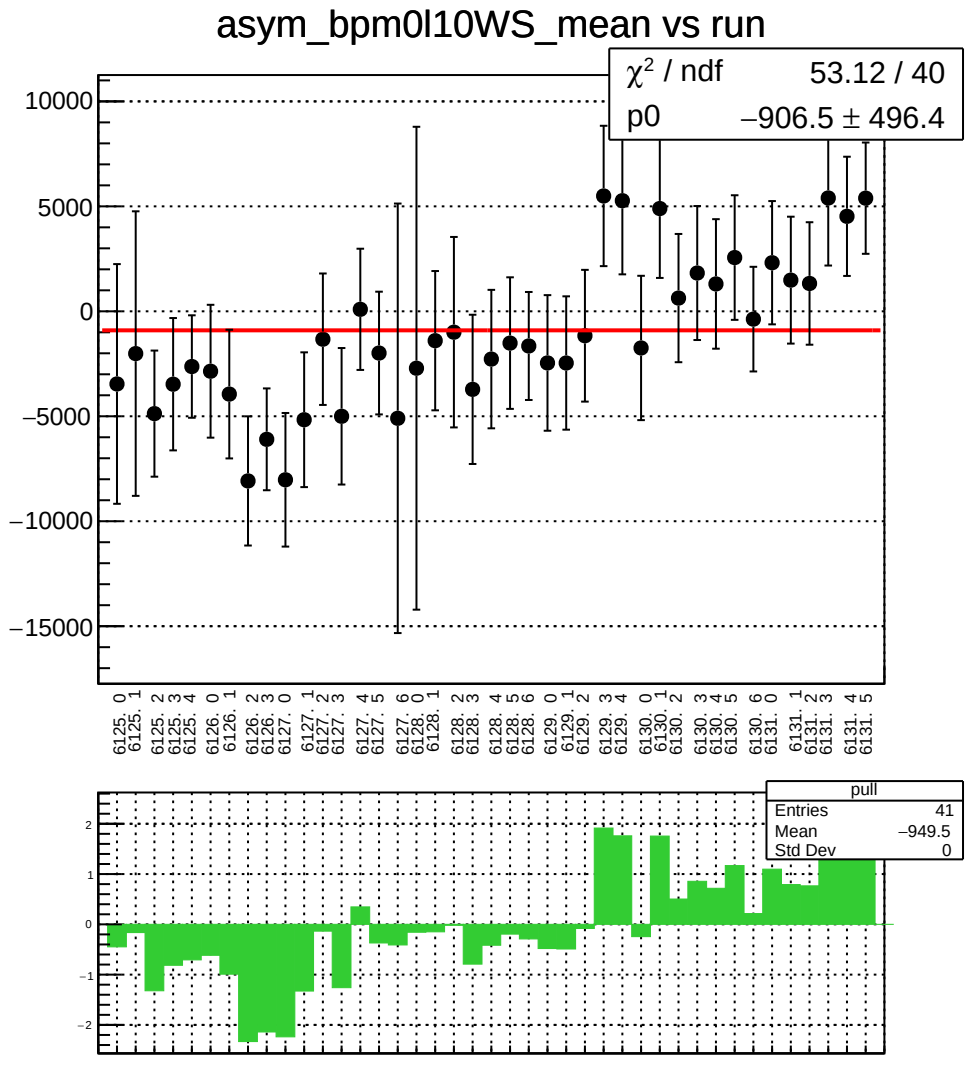

pull1D
Entries 41
Mean −0.00971
Std Dev 1.137
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

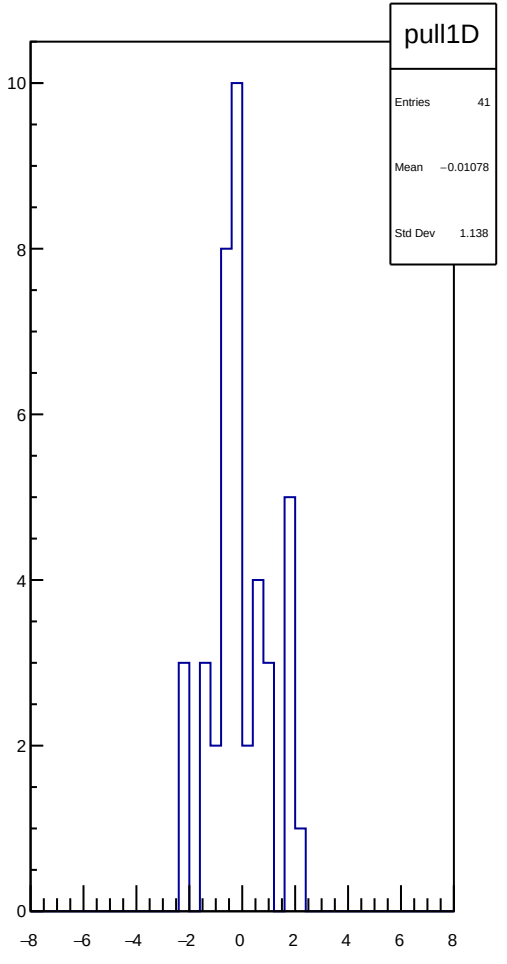

asym_bpm0l08WS_rms vs run
χ² / ndf 3.267e+04 / 40
p0 302.2 ± 0.344
1100
1000
900
800
700
600
500
400
300
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

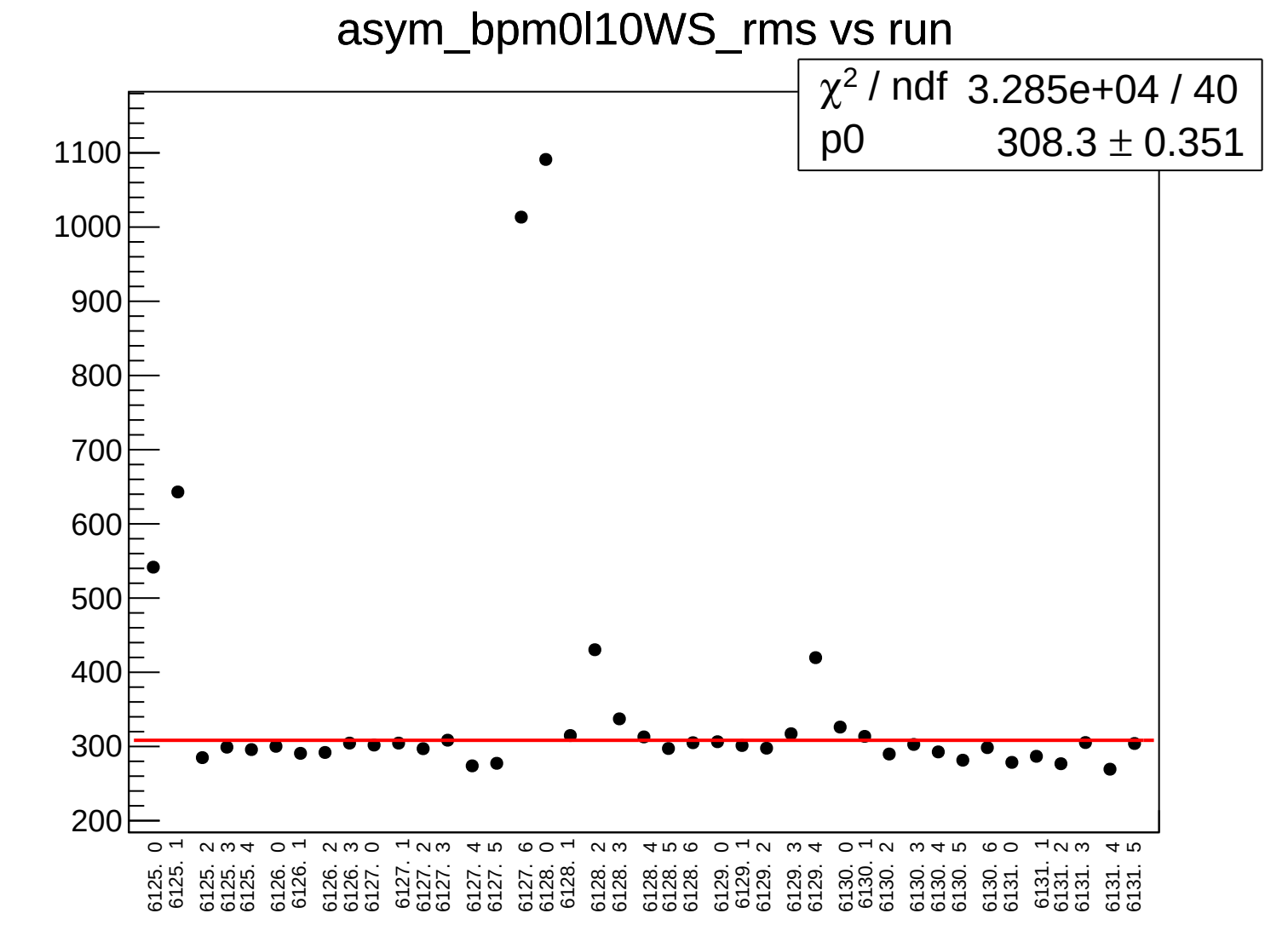

asym_bpm0l09WS_mean vs run
χ² / ndf 60.91 / 40
p0 −810.9 ± 491.2
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1759
Std Dev 0
2
1
0
−1
−2

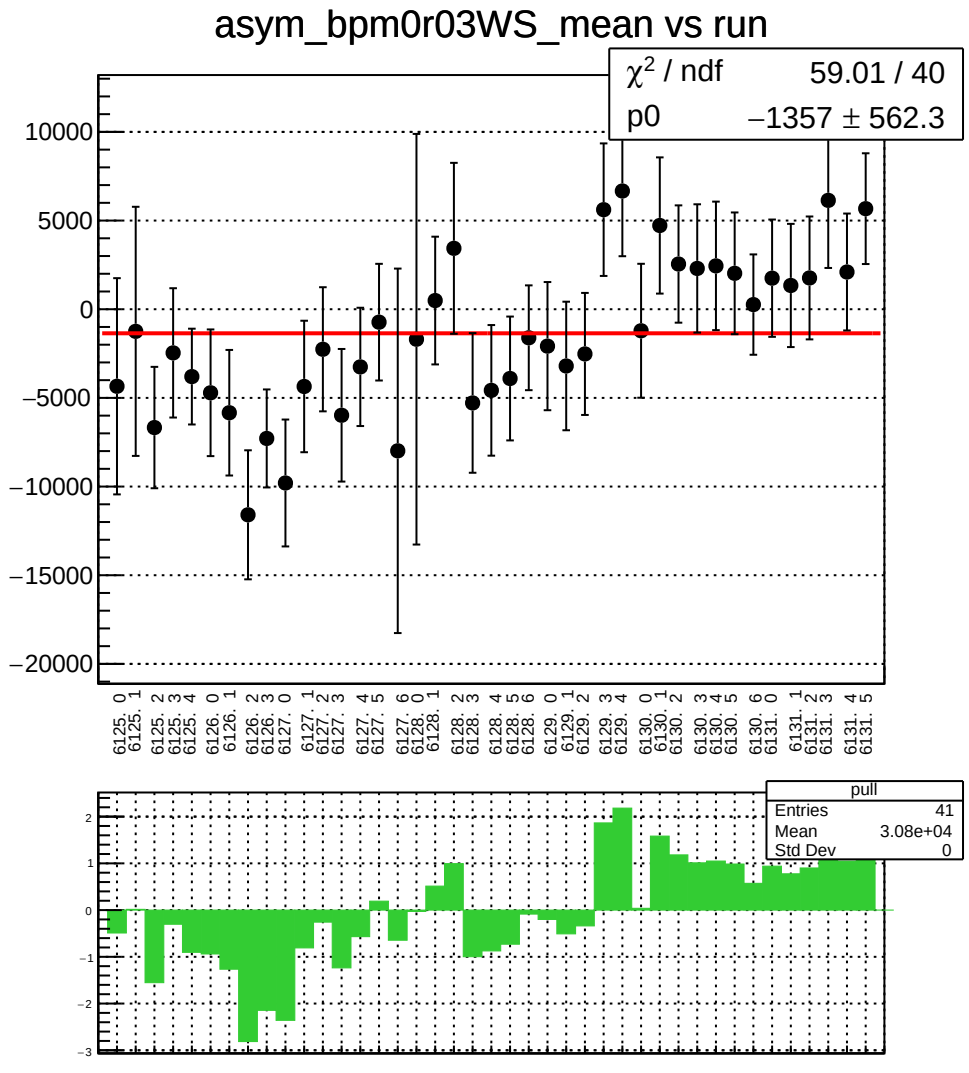

pull1D
Entries 41
Mean −0.006522
Std Dev 1.219
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

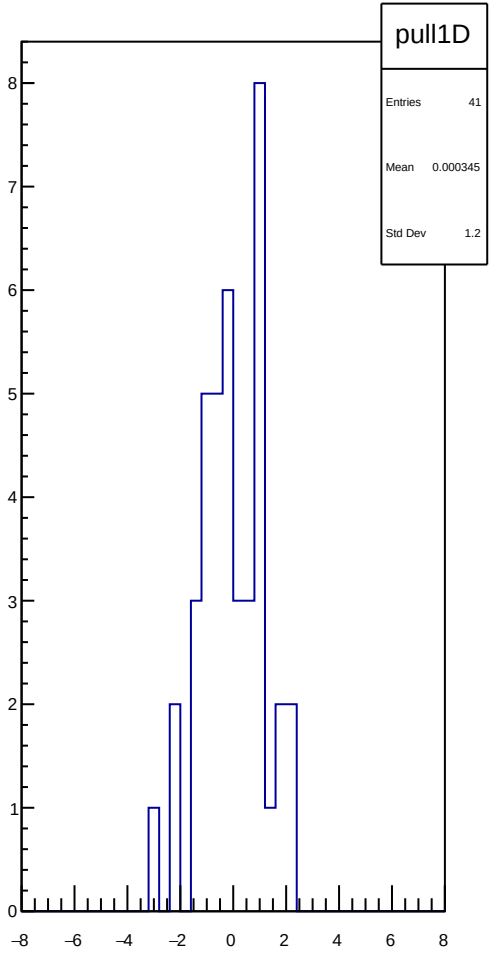

asym_bpm0l09WS_rms vs run
χ² / ndf 3.274e+04 / 40
p0 305.1 ± 0.3473
1100
1000
900
800
700
600
500
400
300
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

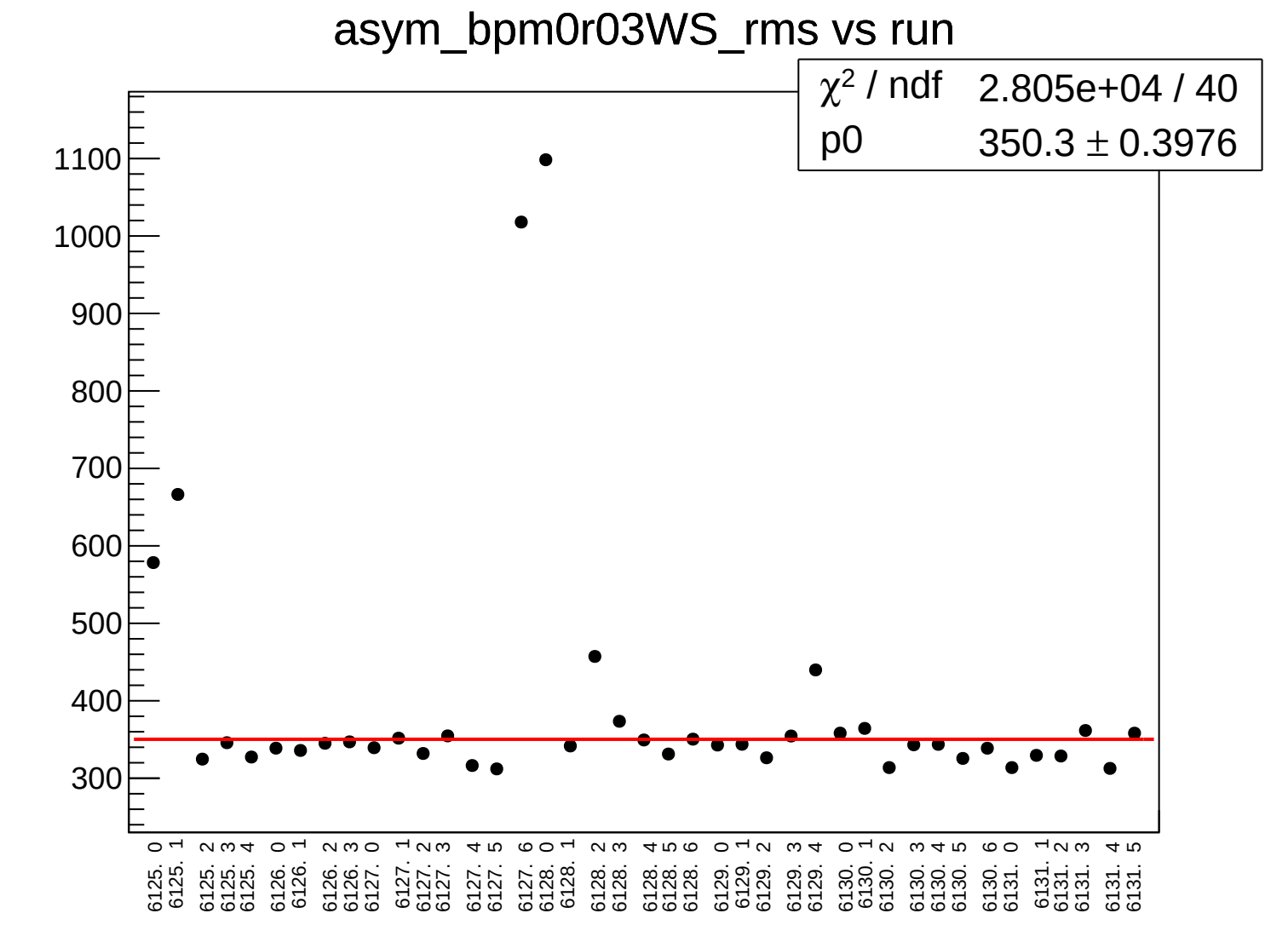

asym_bpm0l10WS_mean vs run
χ² / ndf 53.12 / 40
p0 −906.5 ± 496.4
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −949.5
Std Dev 0
2
1
0
−1
−2

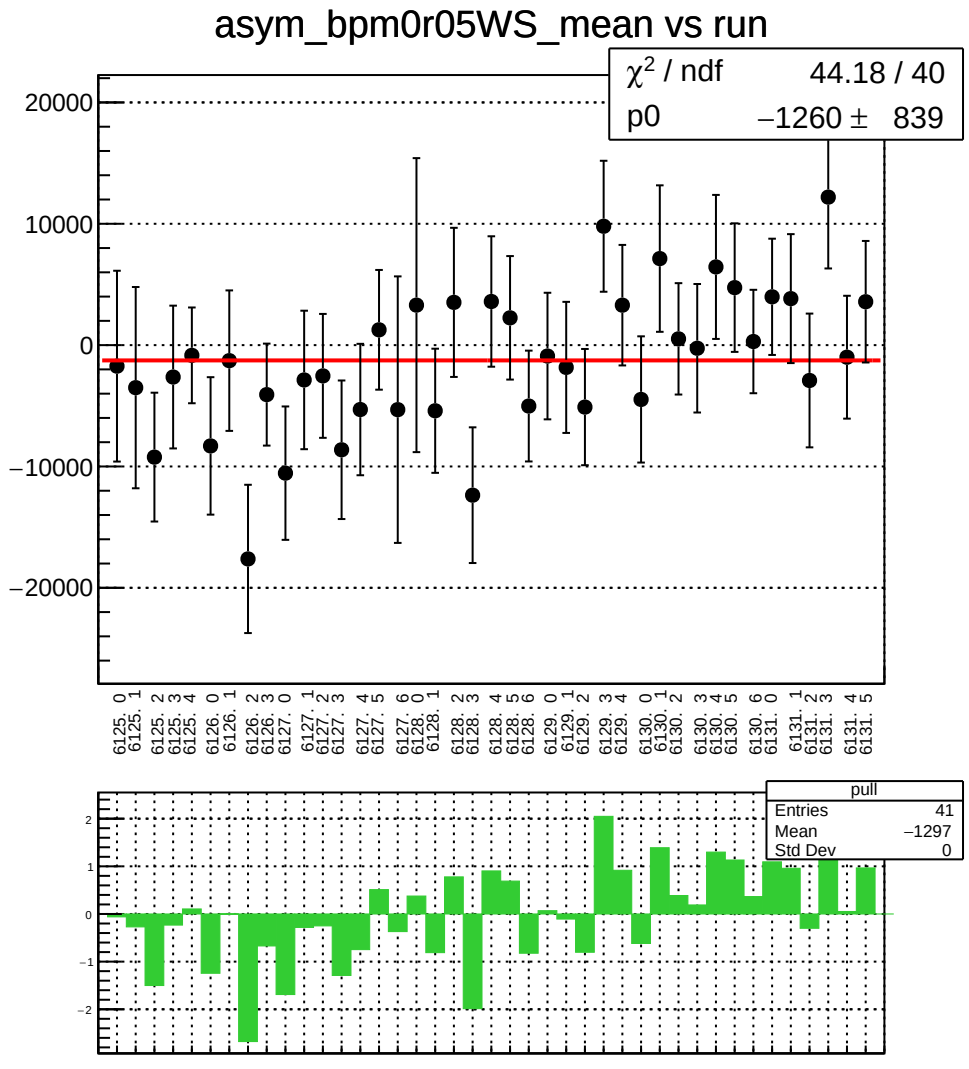

pull1D
Entries 41
Mean −0.01078
Std Dev 1.138
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

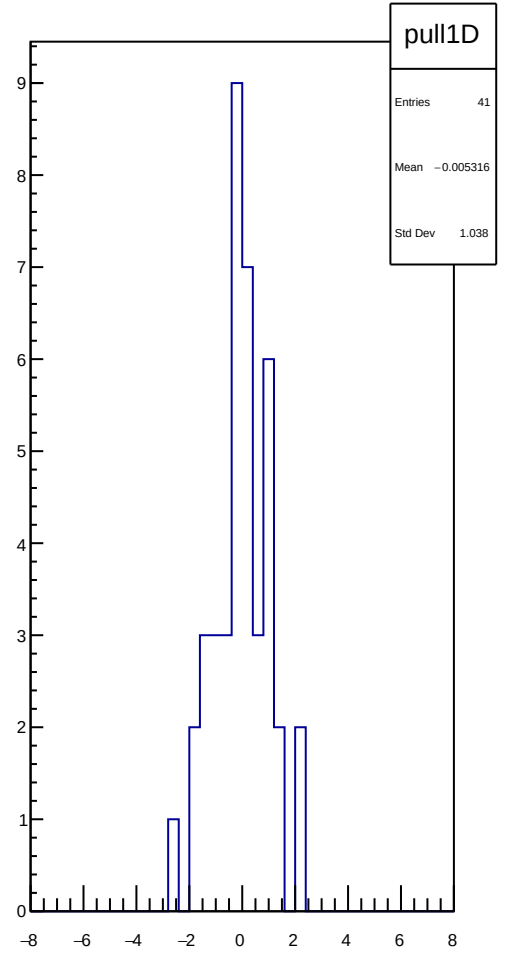

asym_bpm0l10WS_rms vs run
χ² / ndf 3.285e+04 / 40
p0 308.3 ± 0.351
1100
1000
900
800
700
600
500
400
300
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

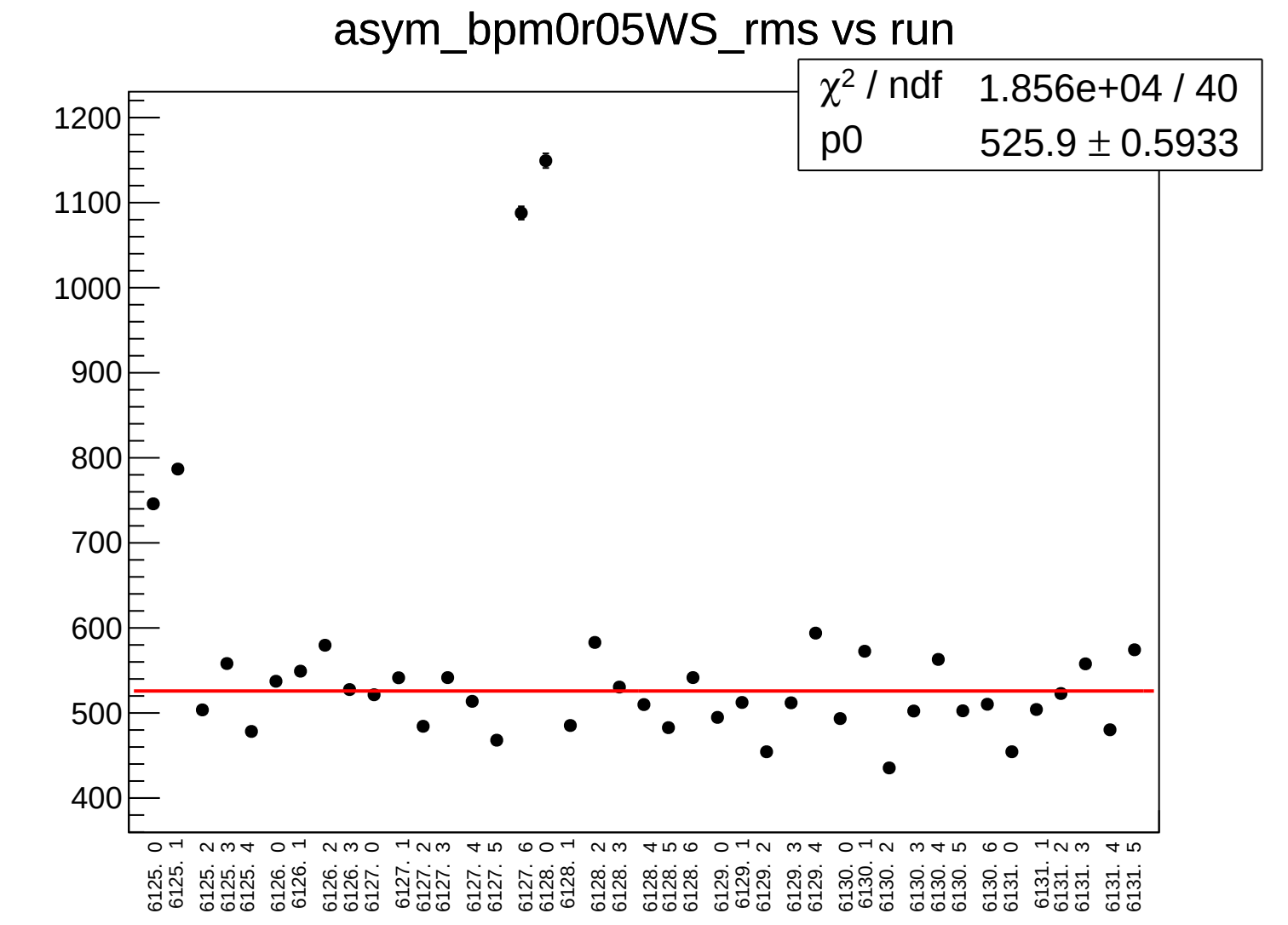

asym_bpm0r03WS_mean vs run
χ² / ndf 59.01 / 40
p0 −1357 ± 562.3
10000
5000
0
−5000
−10000
−15000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 3.08e+04
Std Dev 0
2
1
0
−1
−2
−3

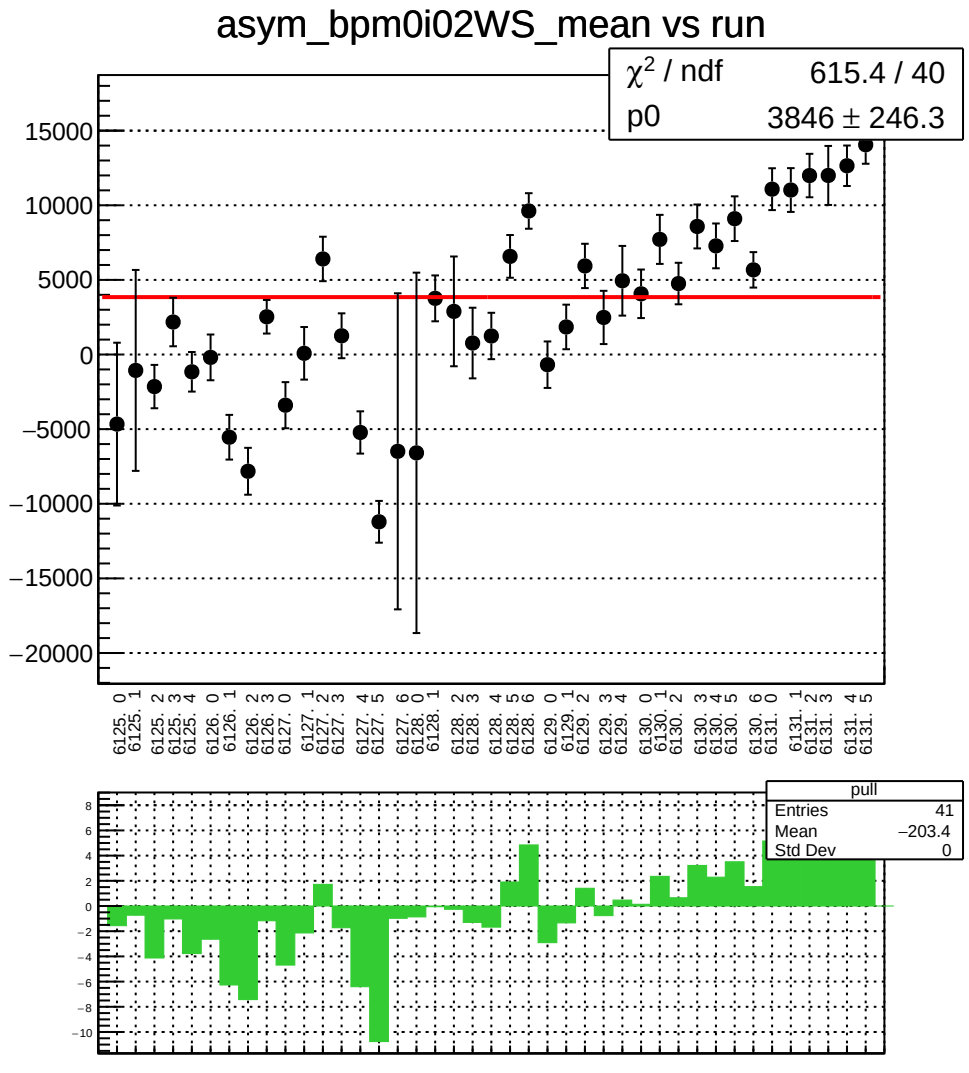

pull1D
Entries 41
Mean 0.000345
Std Dev 1.2
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

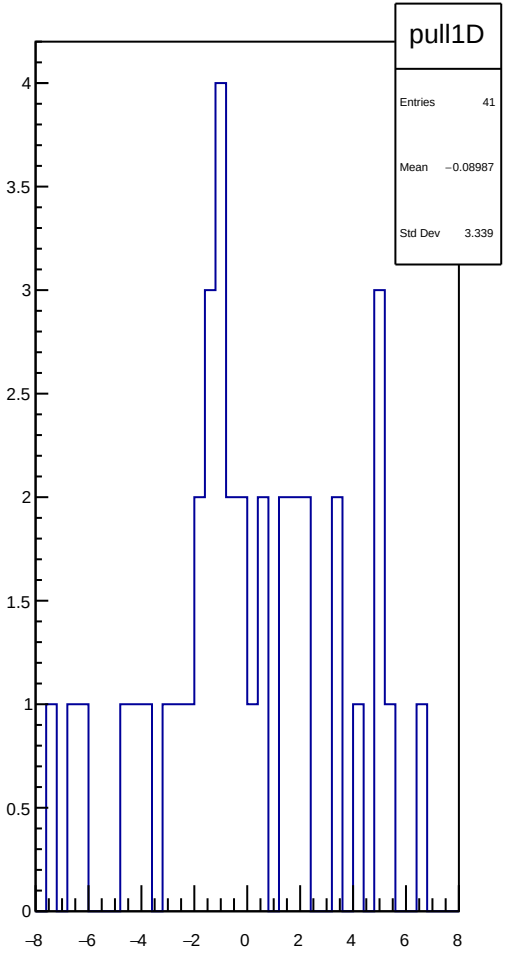

asym_bpm0r03WS_rms vs run
χ² / ndf 2.805e+04 / 40
p0 350.3 ± 0.3976
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

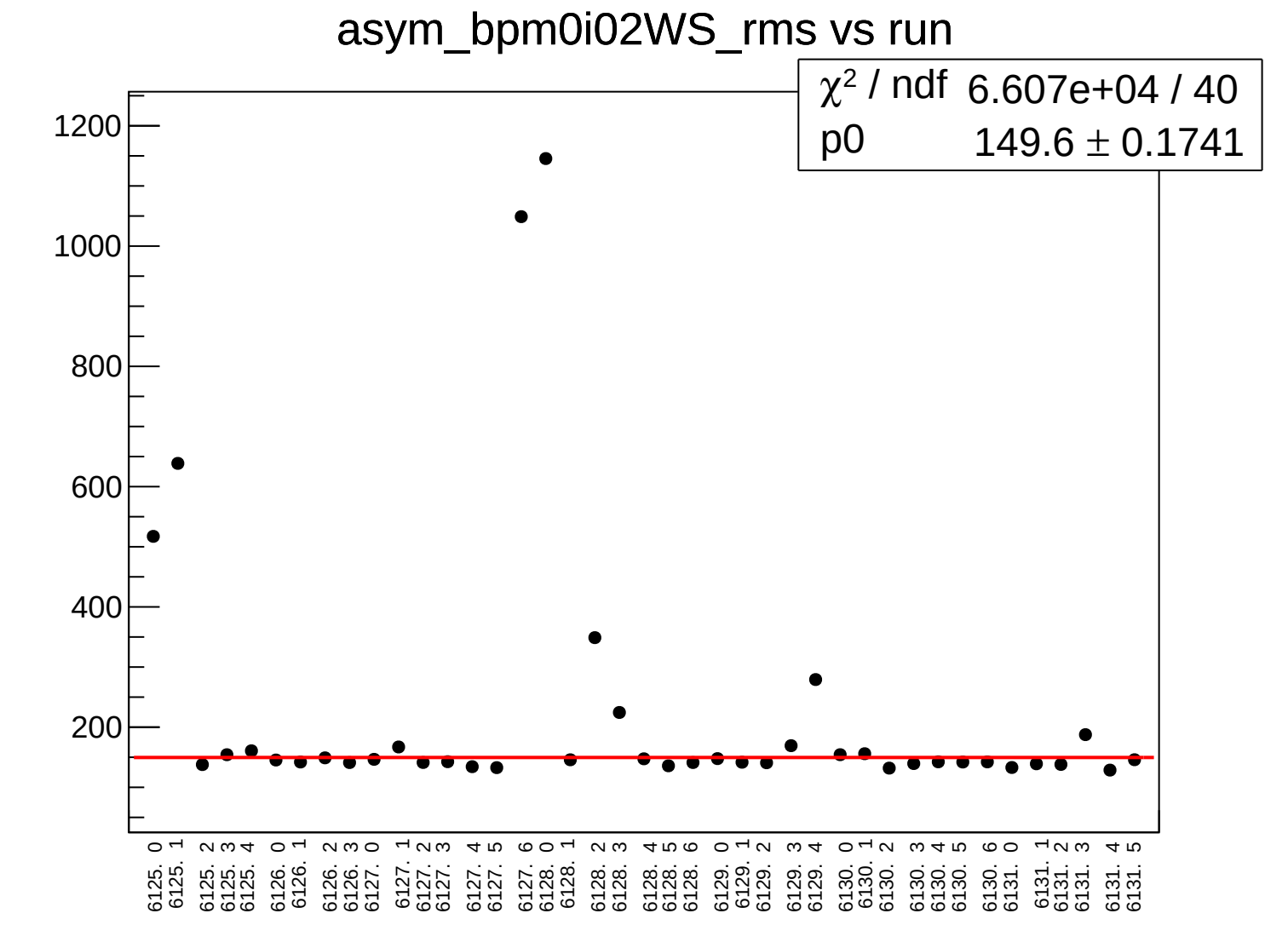

asym_bpm0r05WS_mean vs run
χ² / ndf 44.18 / 40
p0 −1260 ± 839
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1297
Std Dev 0
2
1
0
−1
−2

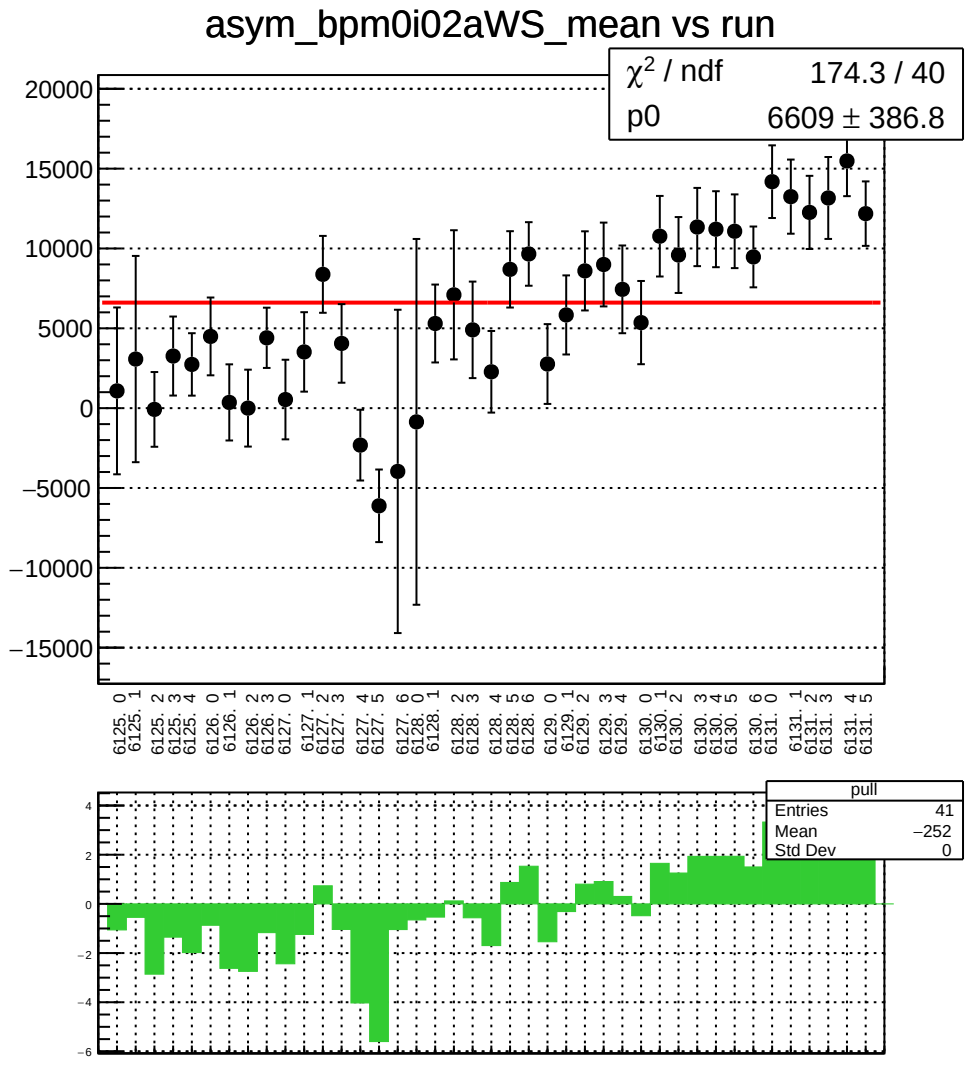

pull1D
Entries 41
Mean −0.005316
Std Dev 1.038
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

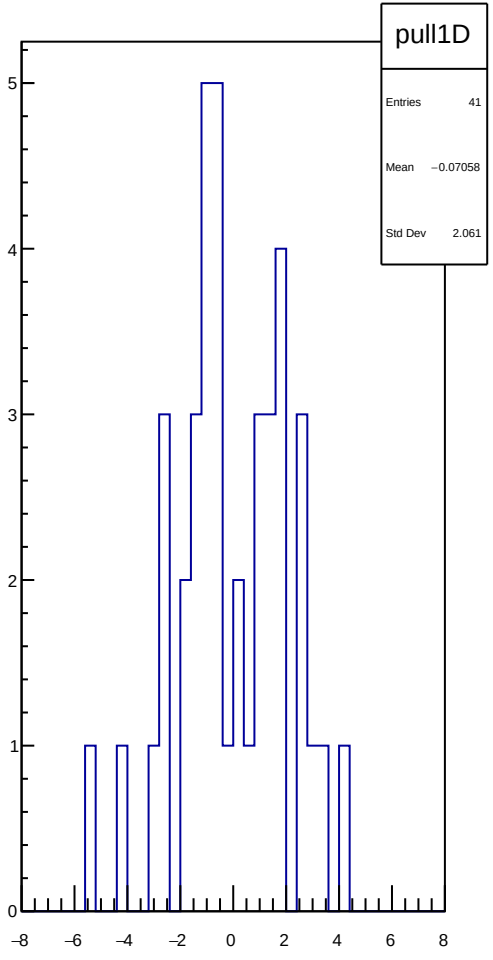

asym_bpm0r05WS_rms vs run
χ² / ndf 1.856e+04 / 40
p0 525.9 ± 0.5933
1200
1100
1000
900
800
700
600
500
400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

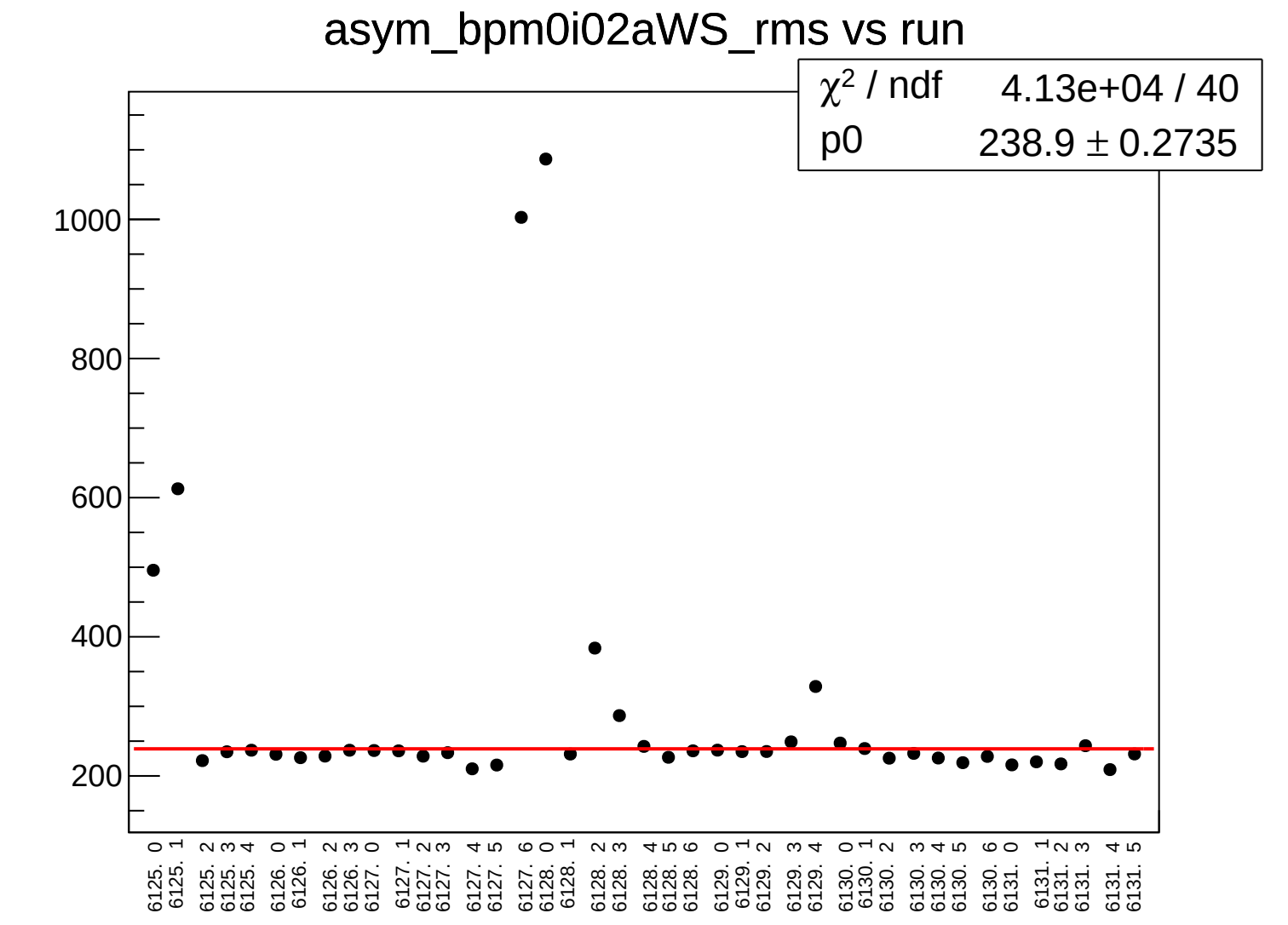

asym_bpm0i02WS_mean vs run
χ² / ndf 615.4 / 40
p0 3846 ± 246.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −203.4
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10

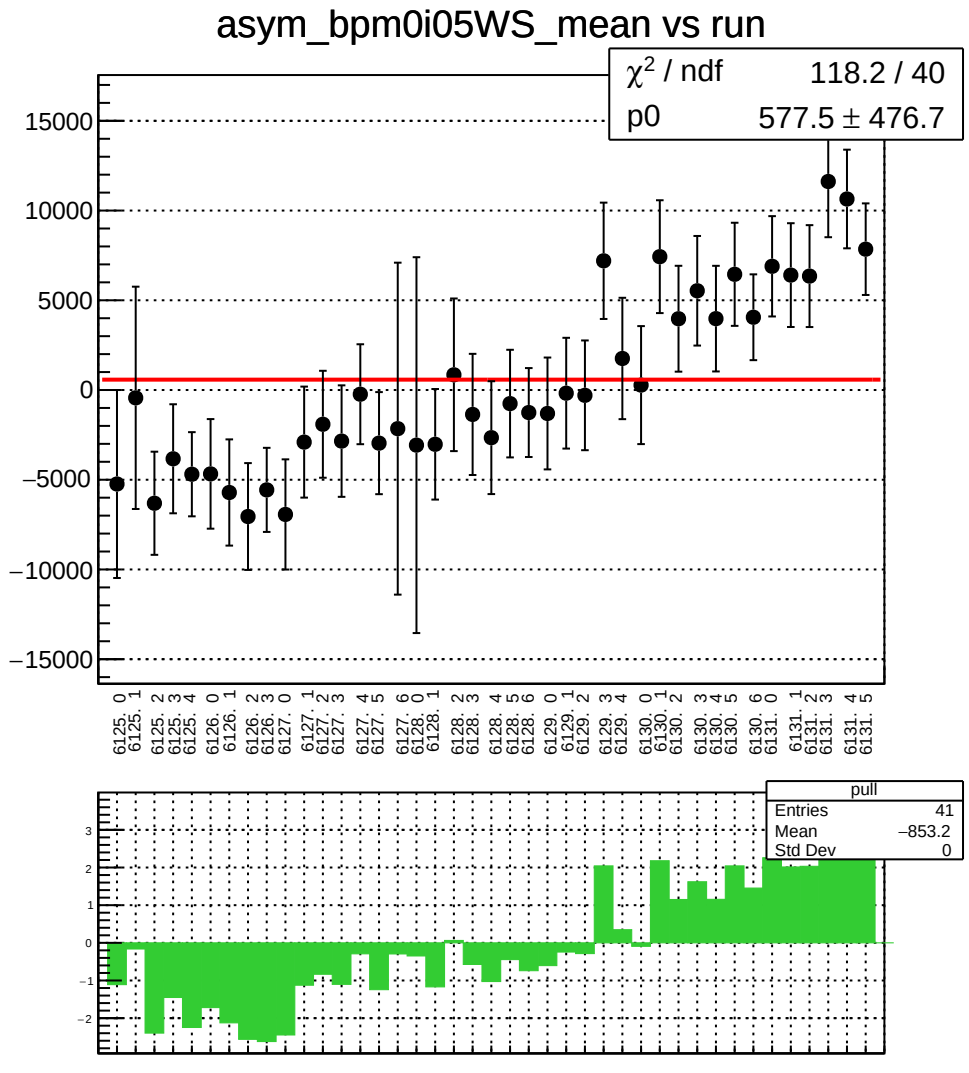

pull1D
Entries 41
Mean −0.08987
Std Dev 3.339
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

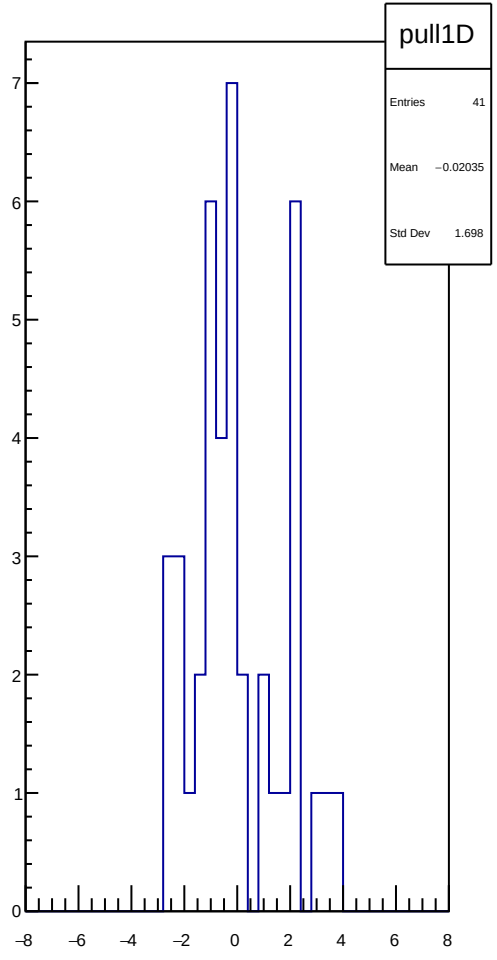

asym_bpm0i02WS_rms vs run
χ² / ndf 6.607e+04 / 40
p0 149.6 ± 0.1741
1200
1000
800
600
400
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

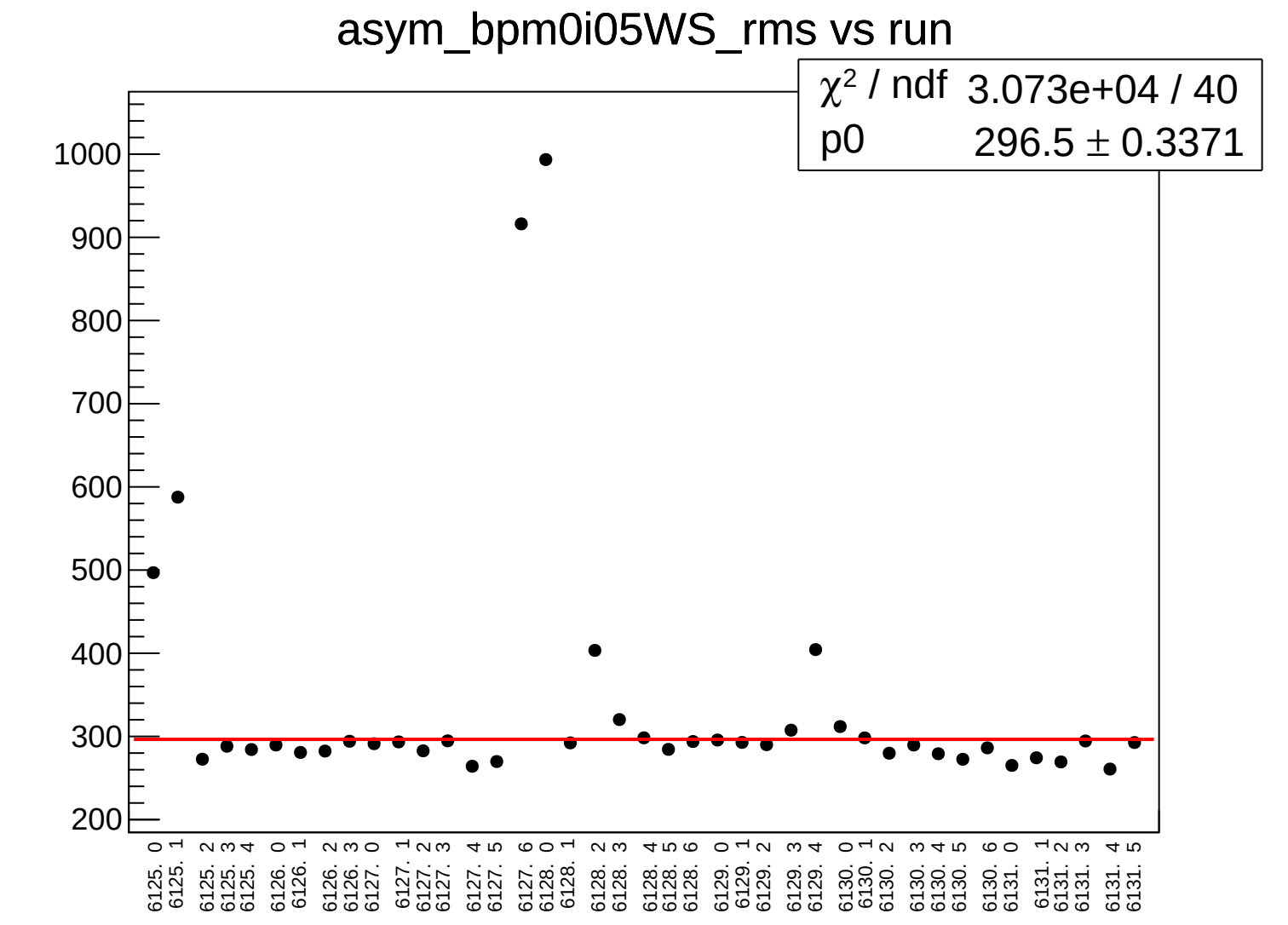

asym_bpm0i02aWS_mean vs run
χ² / ndf 174.3 / 40
p0 6609 ± 386.8
20000
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −252
Std Dev 0
4
2
0
−2
−4
−6

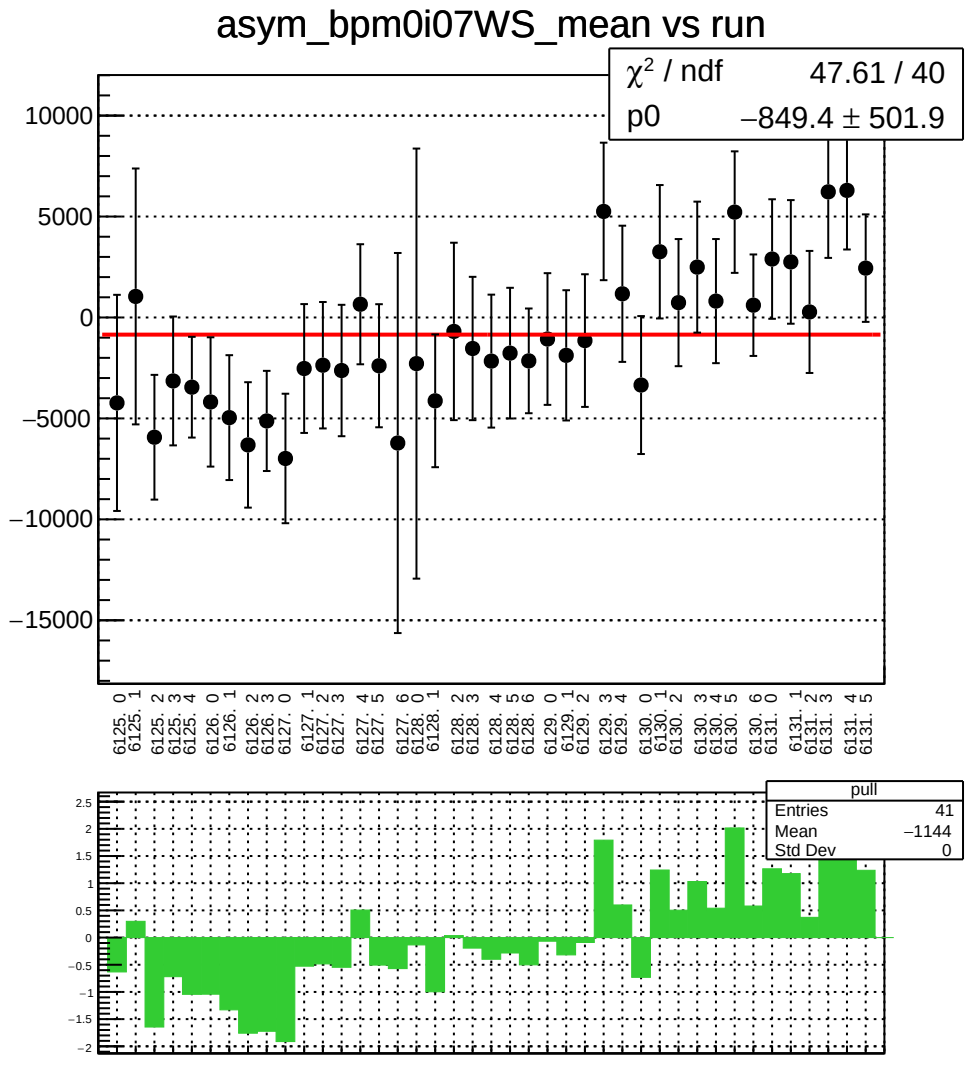

pull1D
Entries 41
Mean −0.07058
Std Dev 2.061
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

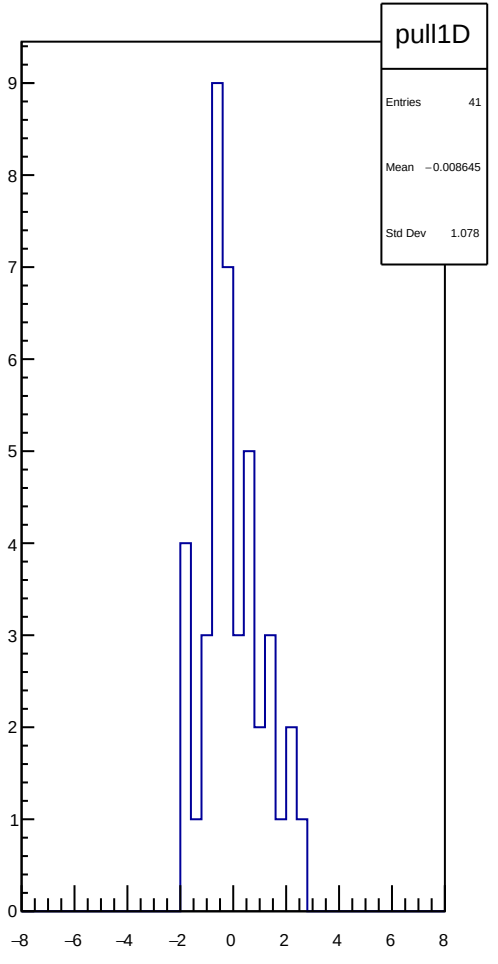

asym_bpm0i02aWS_rms vs run
χ² / ndf 4.13e+04 / 40
p0 238.9 ± 0.2735
1000
800
600
400
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

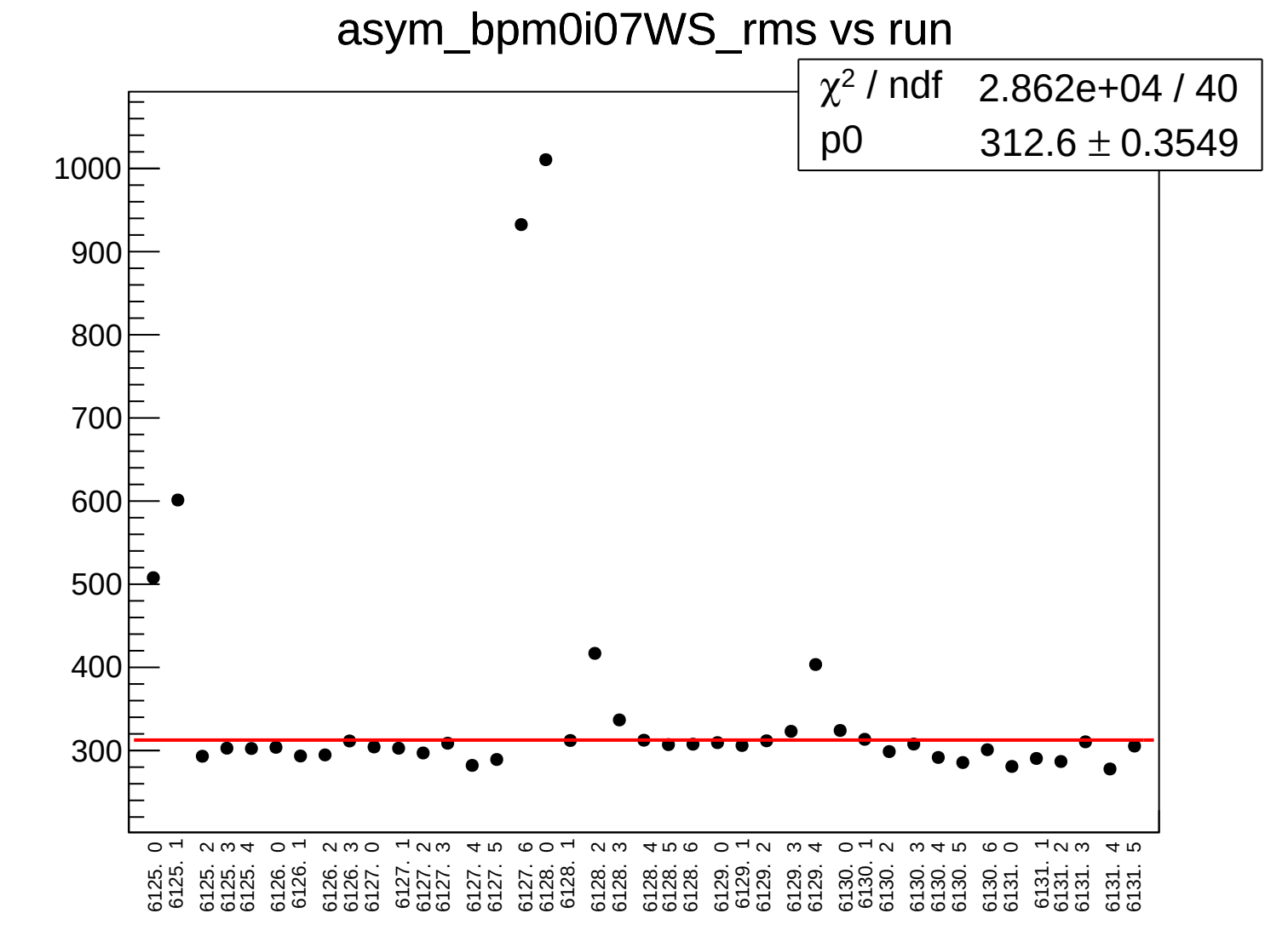

asym_bpm0i05WS_mean vs run
χ² / ndf 118.2 / 40
p0 577.5 ± 476.7
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −853.2
Std Dev 0
3
2
1
0
−1
−2

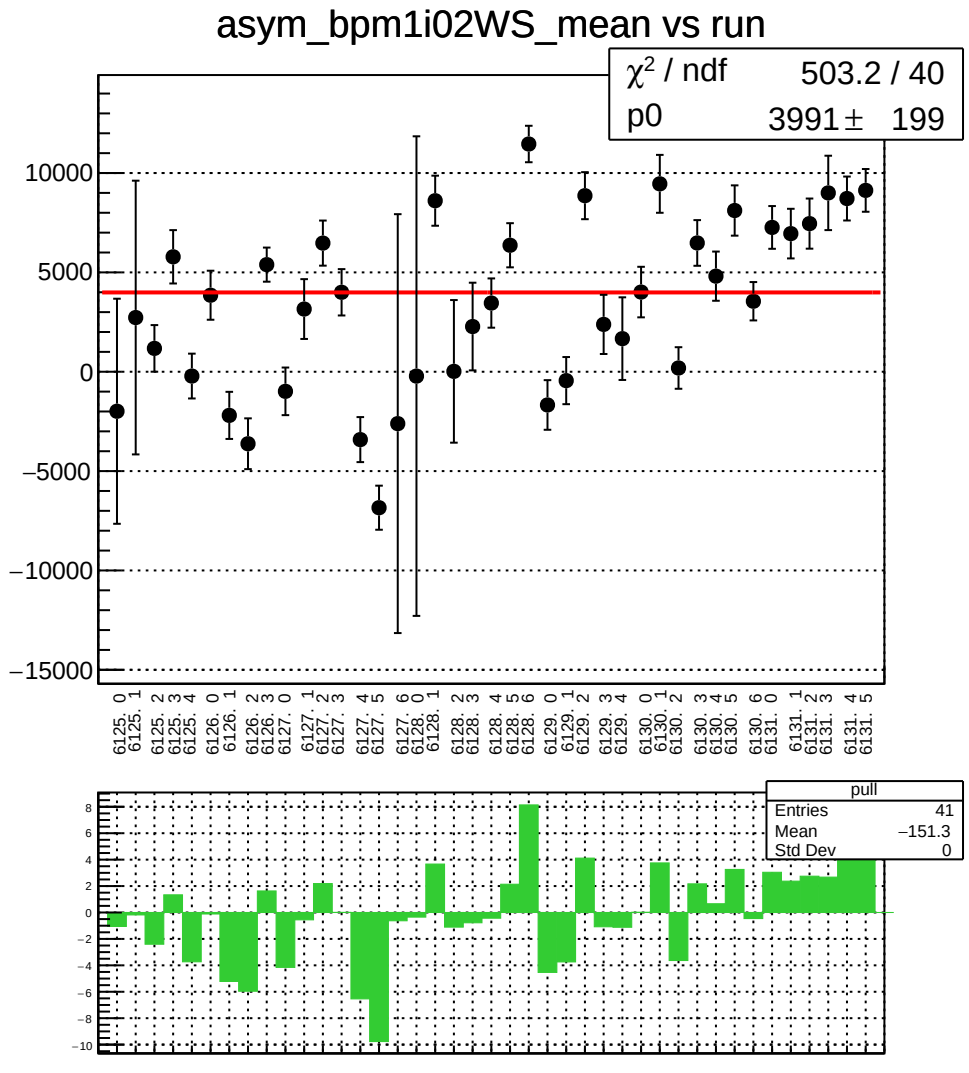

pull1D
Entries 41
Mean −0.02035
Std Dev 1.698
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

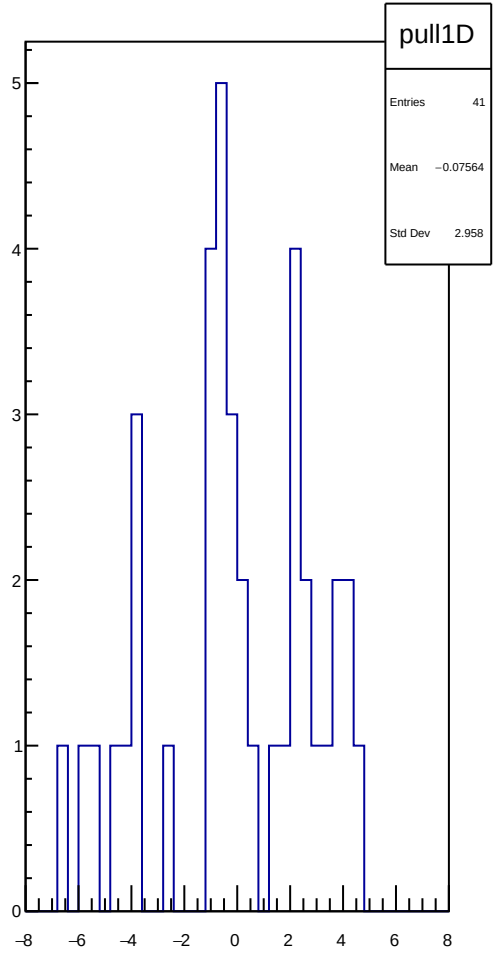

asym_bpm0i05WS_rms vs run
χ² / ndf 3.073e+04 / 40
p0 296.5 ± 0.3371
1000
900
800
700
600
500
400
300
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

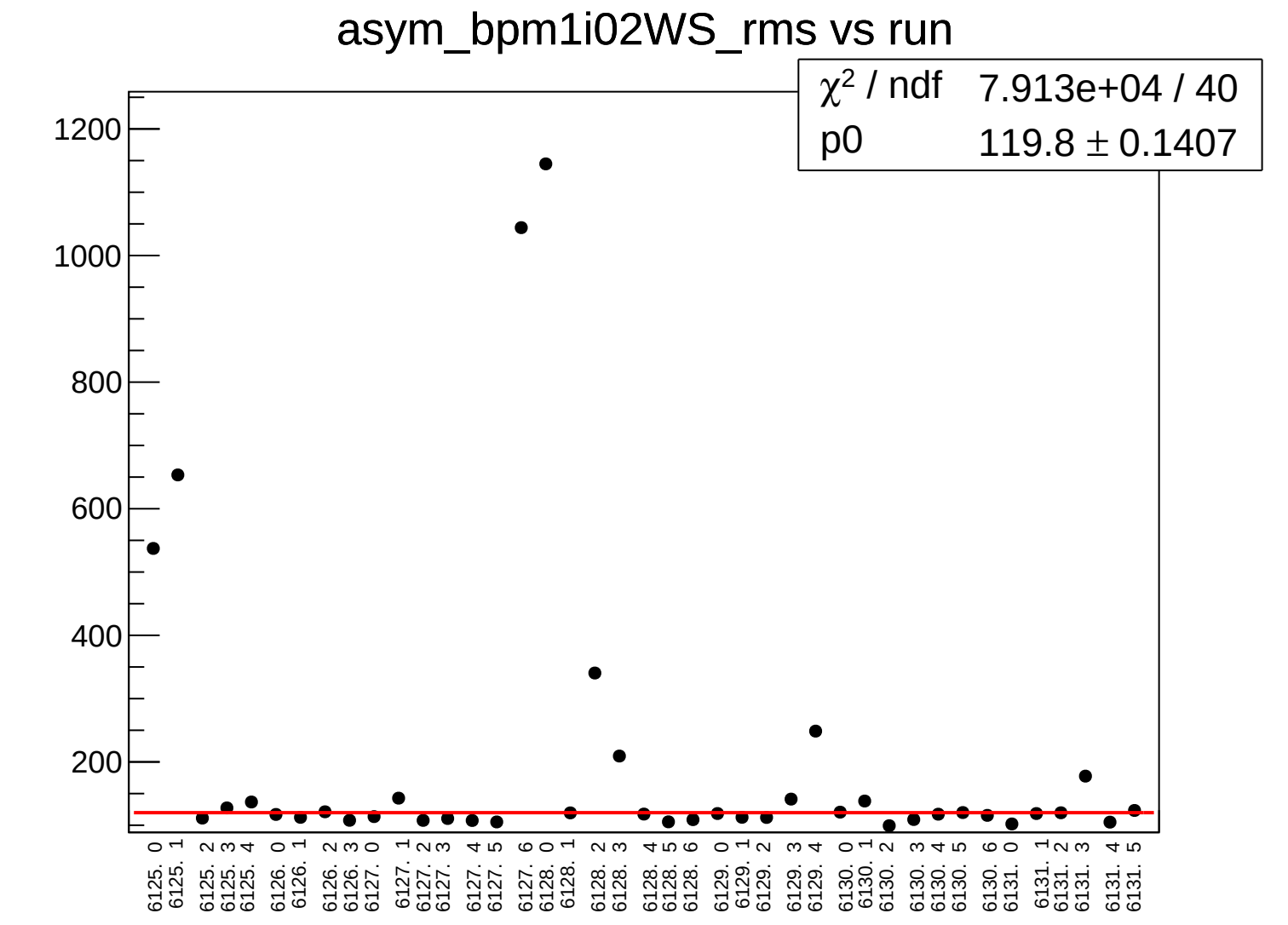

asym_bpm0i07WS_mean vs run
χ² / ndf 47.61 / 40
p0 −849.4 ± 501.9
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1144
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

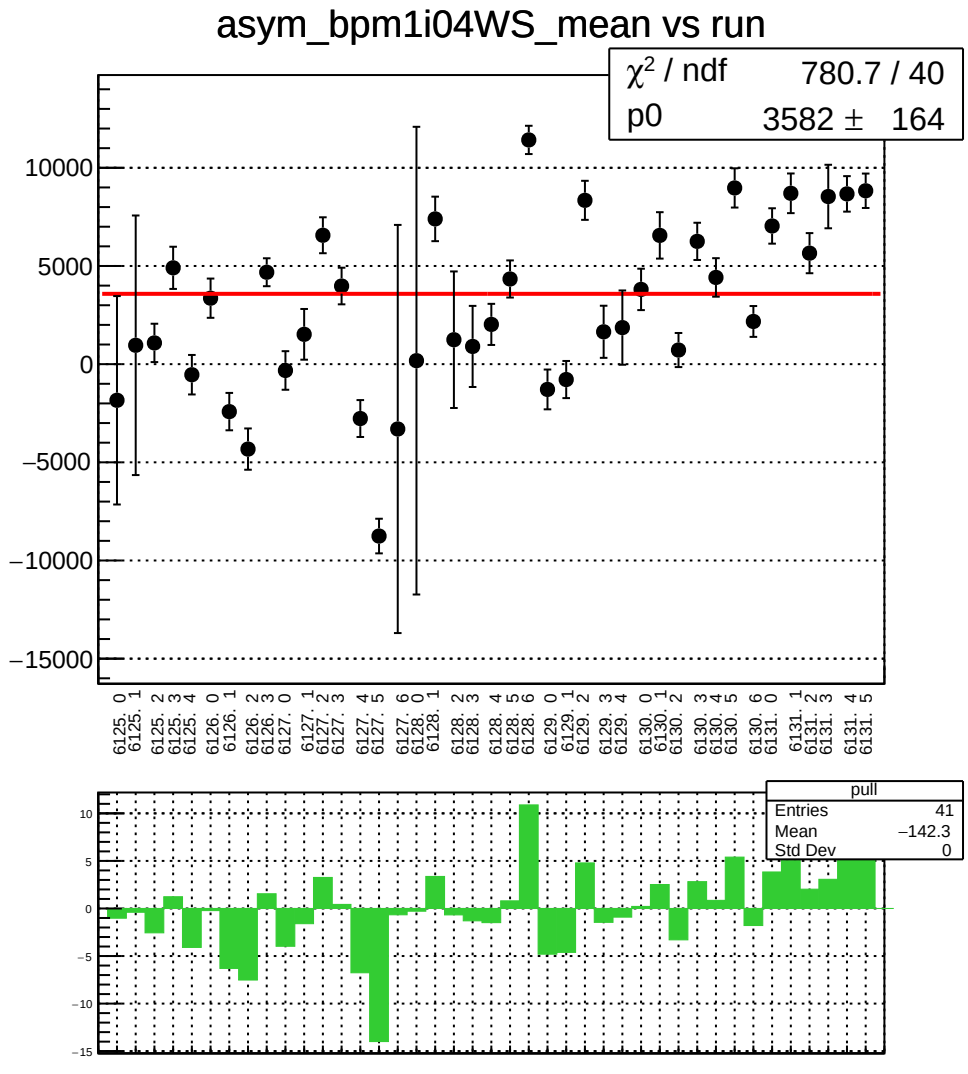

pull1D
Entries 41
Mean −0.008645
Std Dev 1.078
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

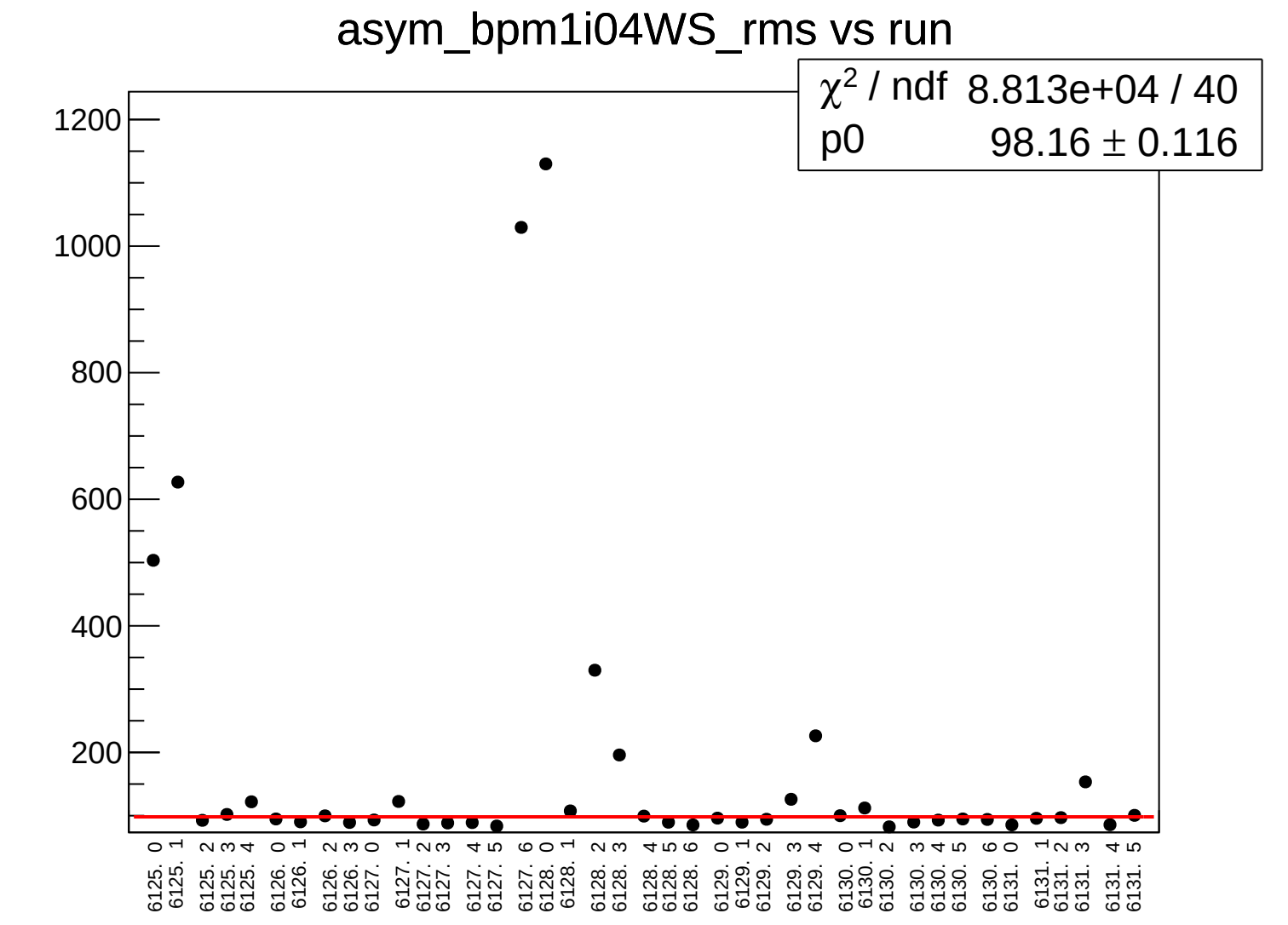

asym_bpm0i07WS_rms vs run
χ² / ndf 2.862e+04 / 40
p0 312.6 ± 0.3549
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

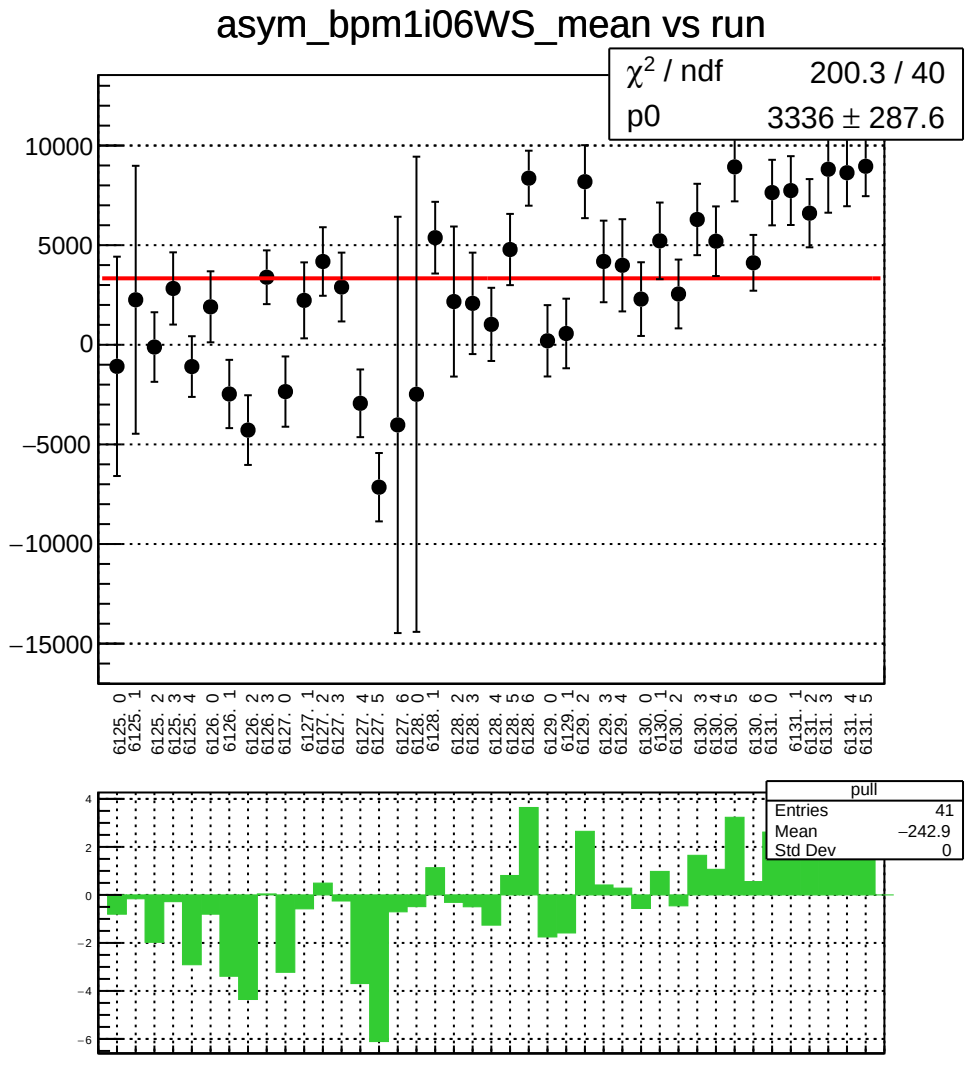

asym_bpm1i02WS_mean vs run
χ² / ndf 503.2 / 40
p0 3991 ± 199
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −151.3
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10

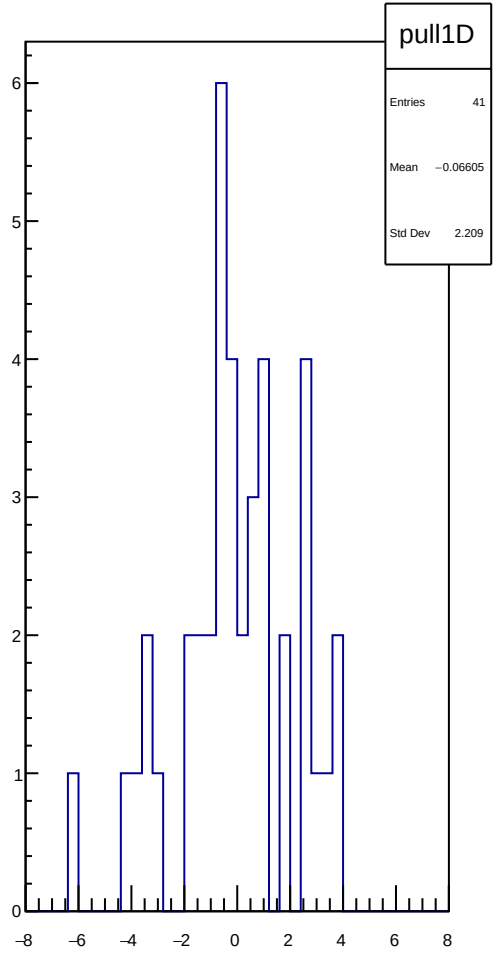

pull1D
Entries 41
Mean −0.07564
Std Dev 2.958
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

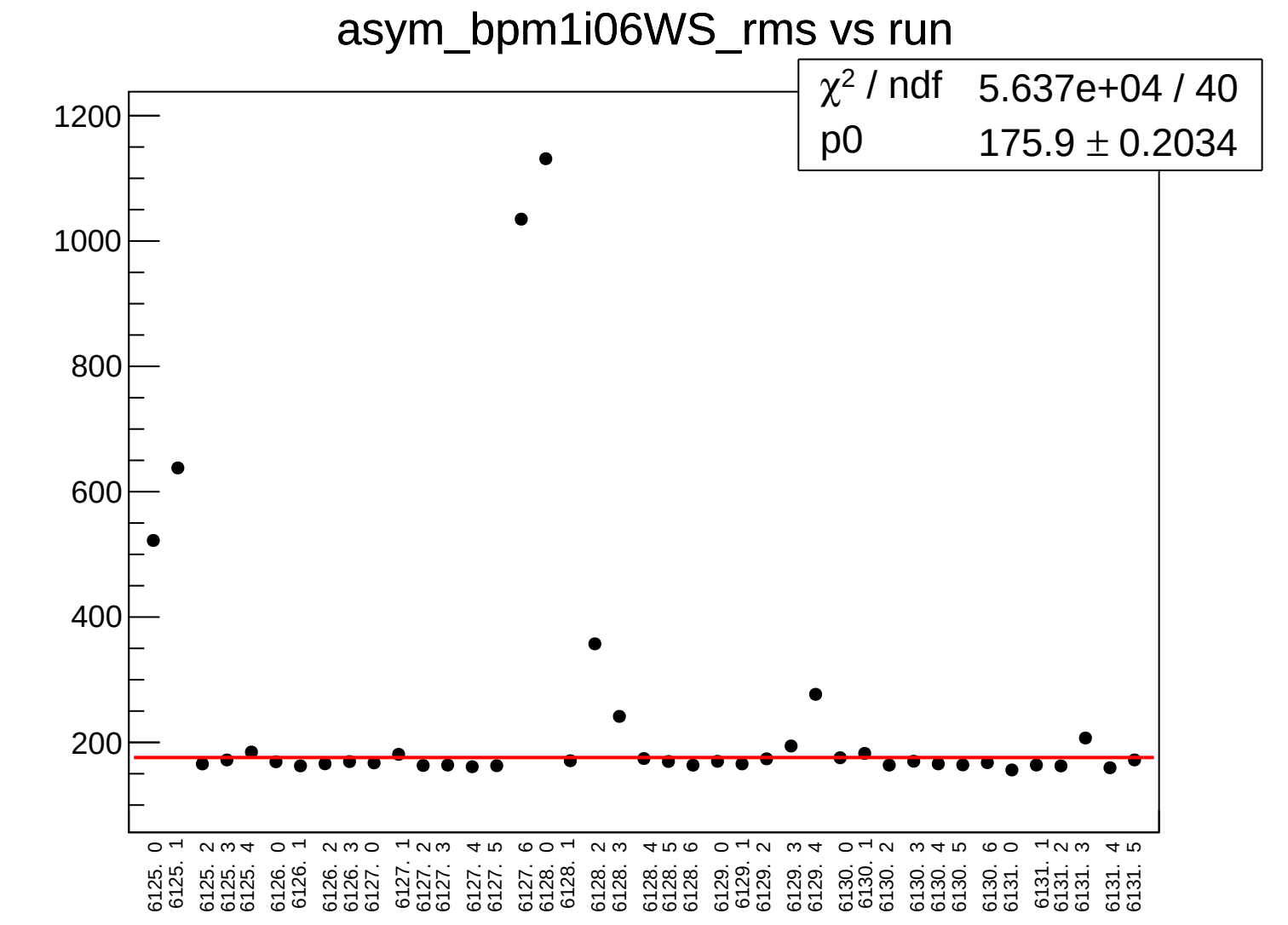

asym_bpm1i02WS_rms vs run
χ² / ndf 7.913e+04 / 40
p0 119.8 ± 0.1407
1200
1000
800
600
400
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

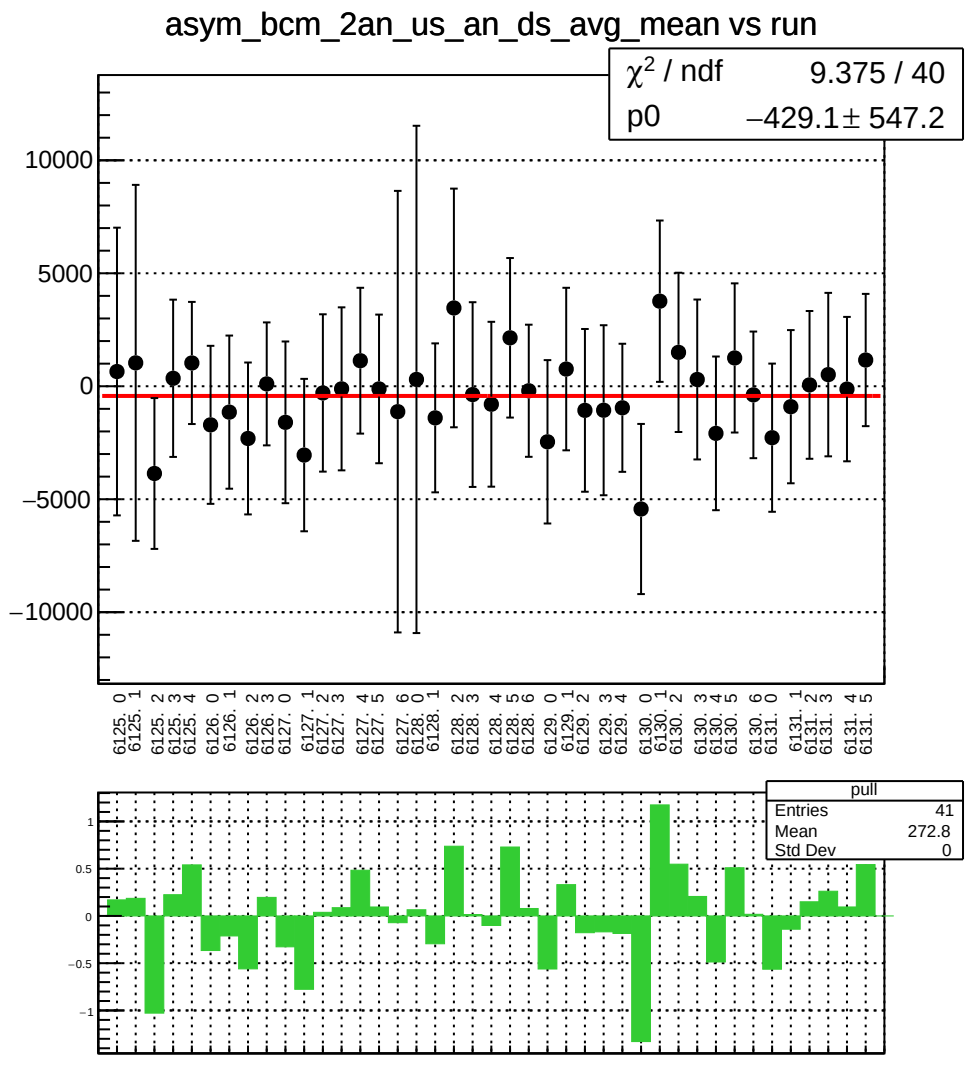

asym_bpm1i04WS_mean vs run
χ² / ndf 780.7 / 40
p0 3582 ± 164
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −142.3
Std Dev 0
10
5
0
−5
−10
−15
pull1D
Entries 41
Mean −0.07407
Std Dev 3.457
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

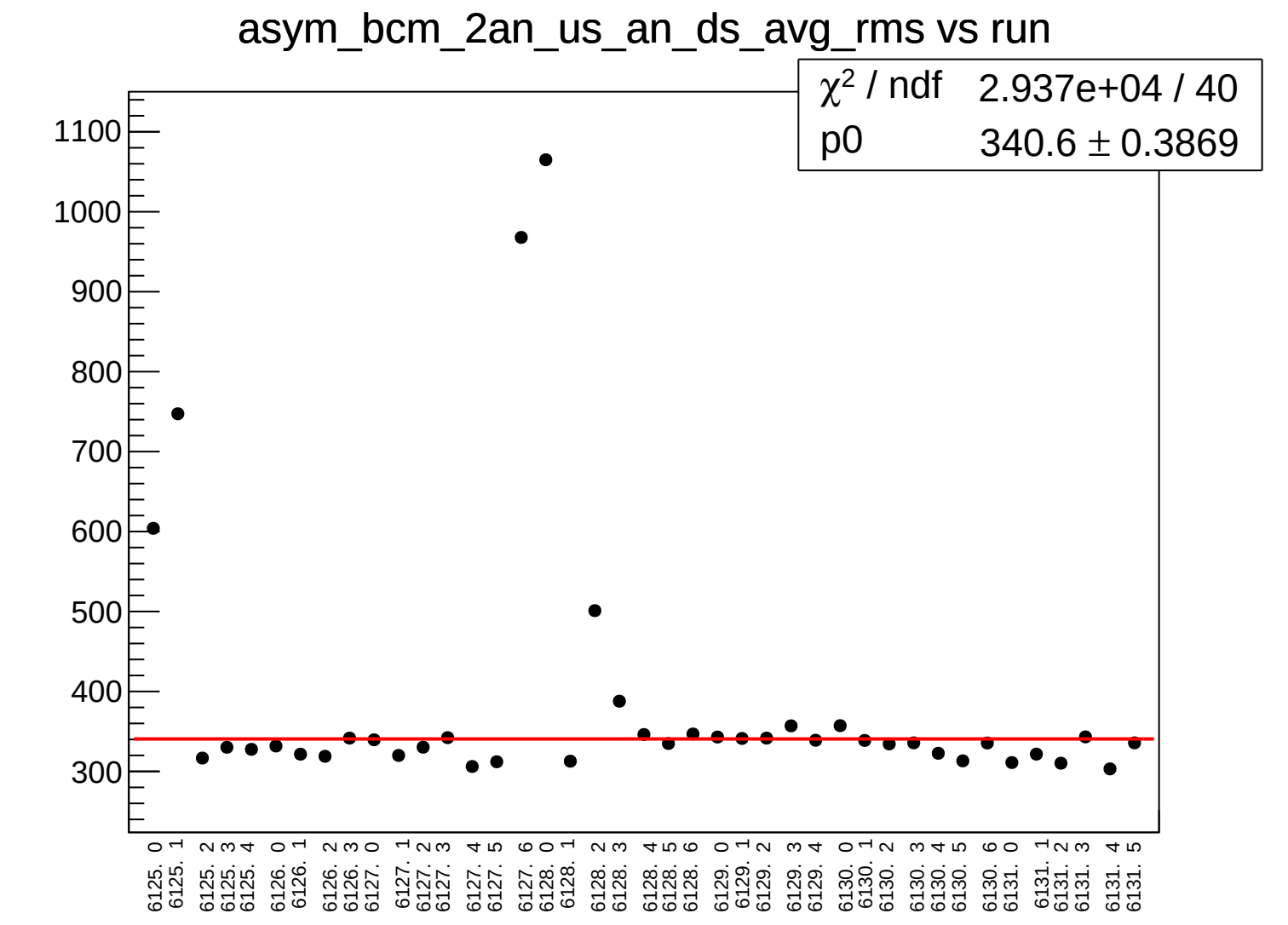

asym_bpm1i04WS_rms vs run
χ² / ndf 8.813e+04 / 40
p0 98.16 ± 0.116
1200
1000
800
600
400
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

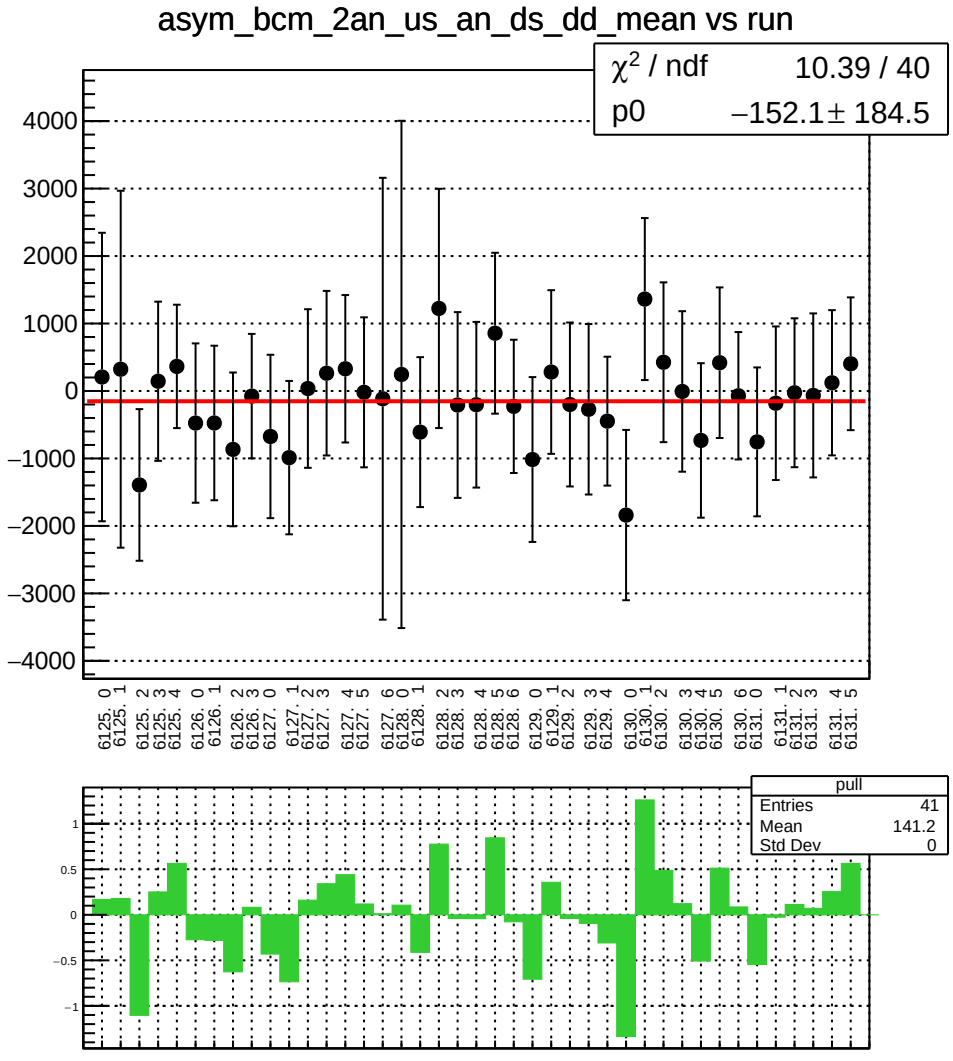

asym_bpm1i06WS_mean vs run
χ² / ndf 200.3 / 40
p0 3336 ± 287.6
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −242.9
Std Dev 0
4
2
0
−2
−4
−6

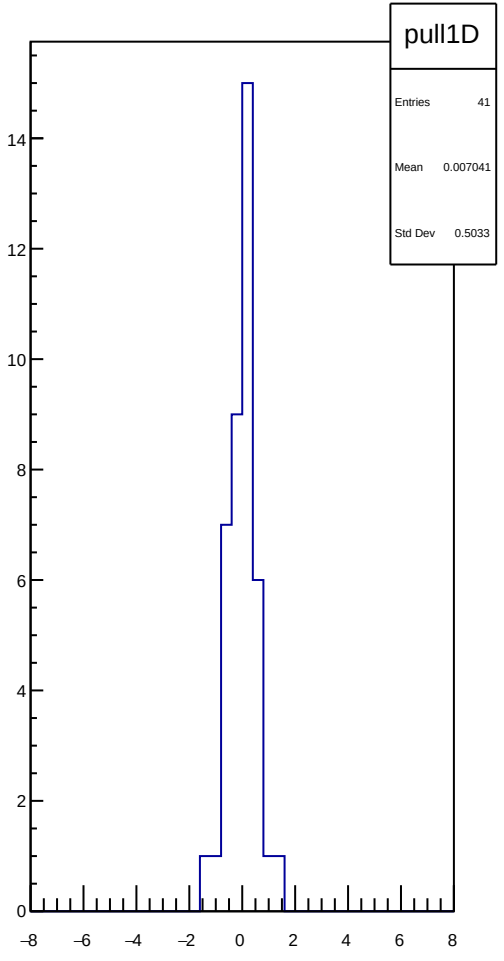

pull1D
Entries 41
Mean −0.06605
Std Dev 2.209
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

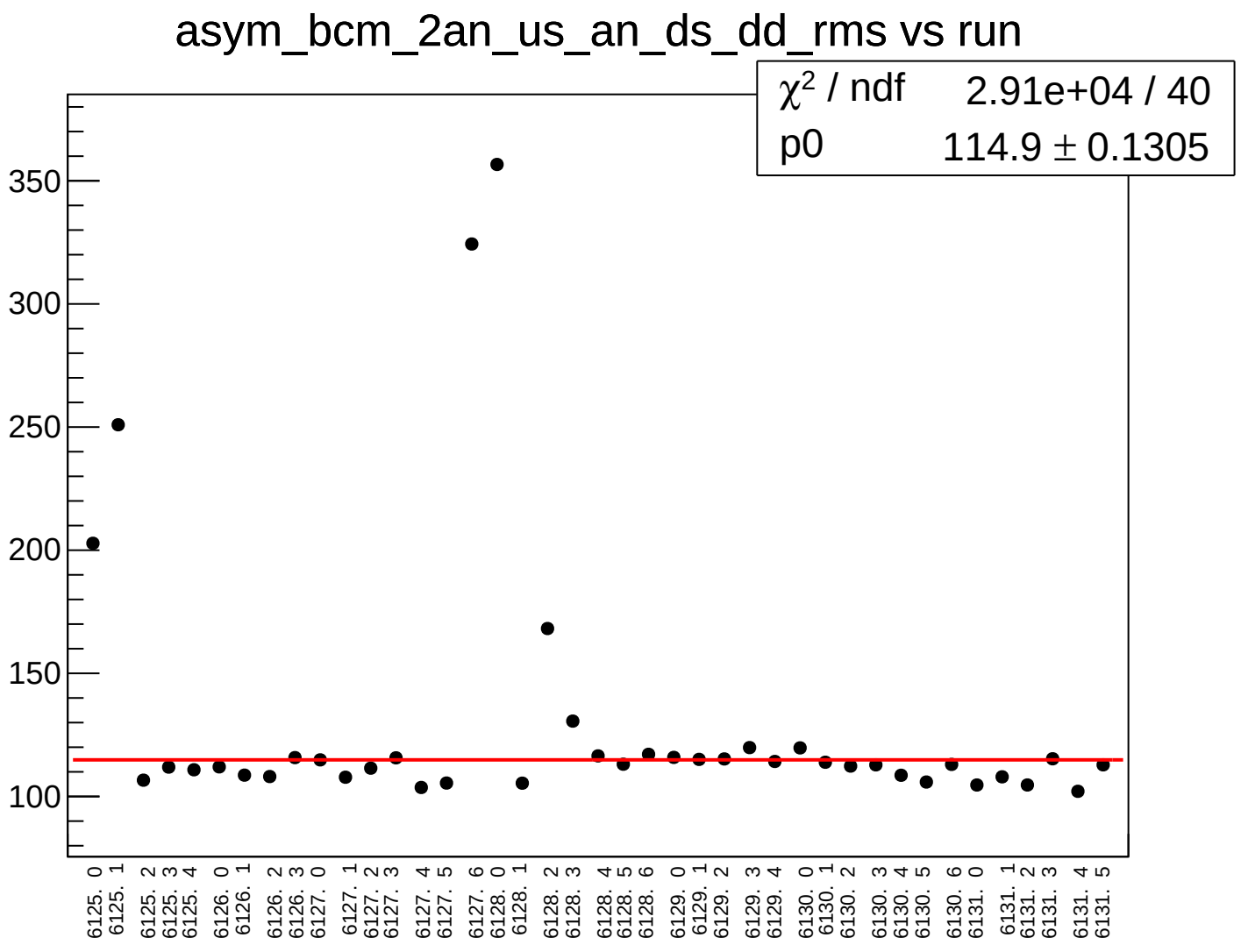

asym_bpm1i06WS_rms vs run
χ² / ndf 5.637e+04 / 40
p0 175.9 ± 0.2034
1200
1000
800
600
400
200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

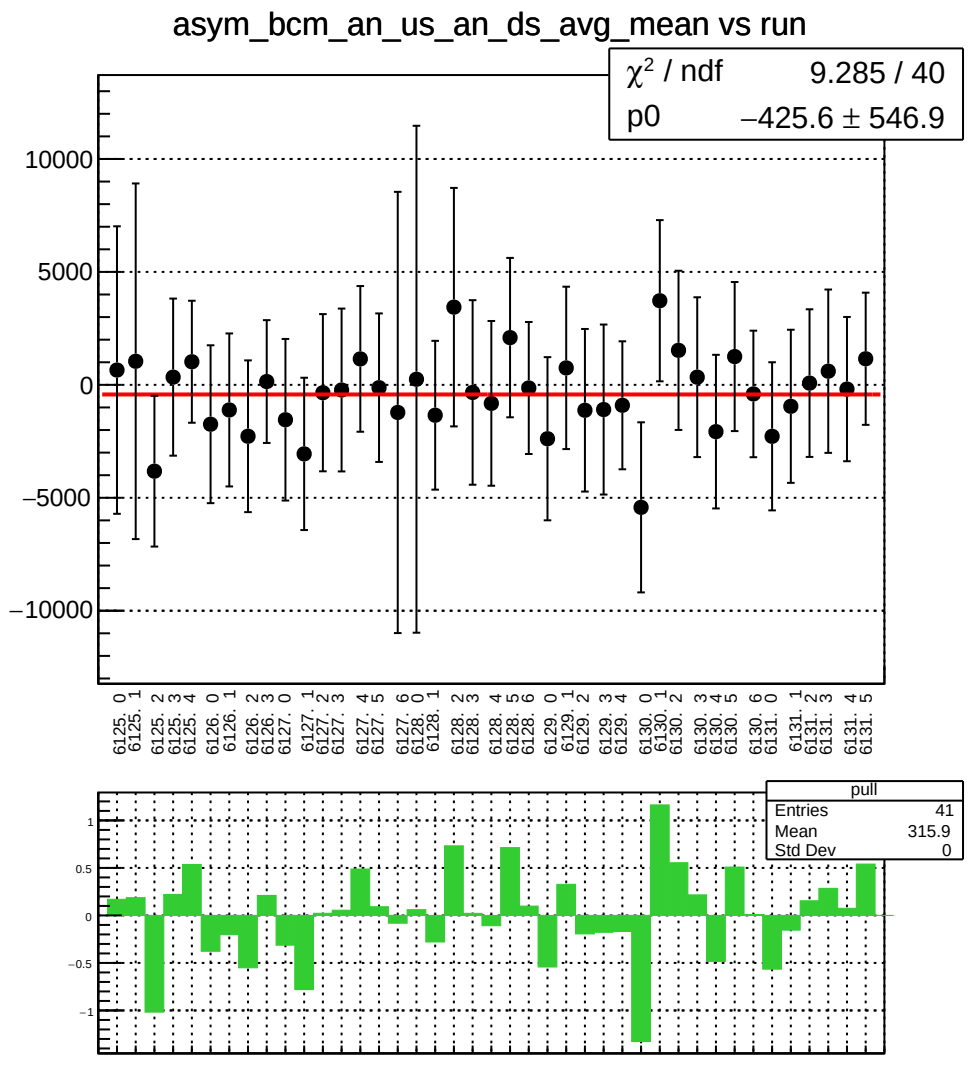

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 9.375 / 40
p0 −429.1 ± 547.2
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 272.8
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.003246
Std Dev 0.4782
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

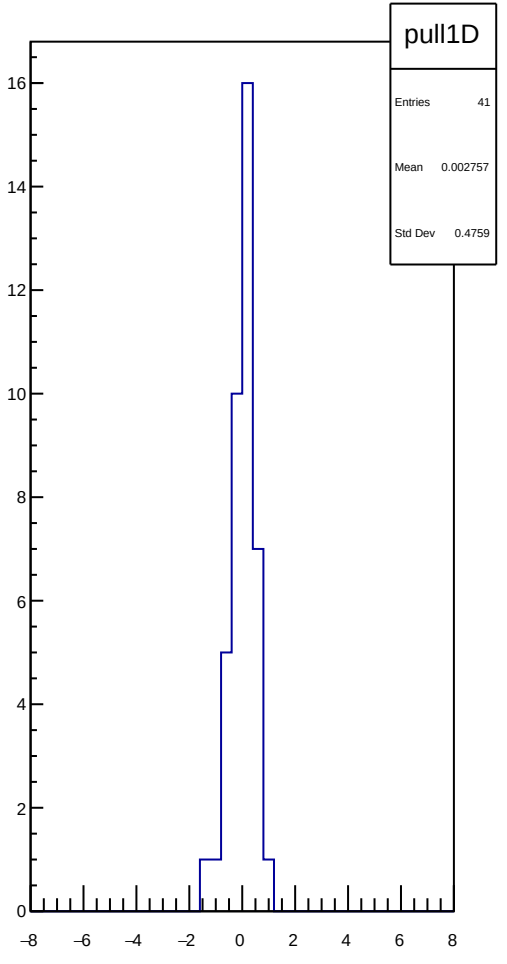

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 2.937e+04 / 40
p0 340.6 ± 0.3869
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

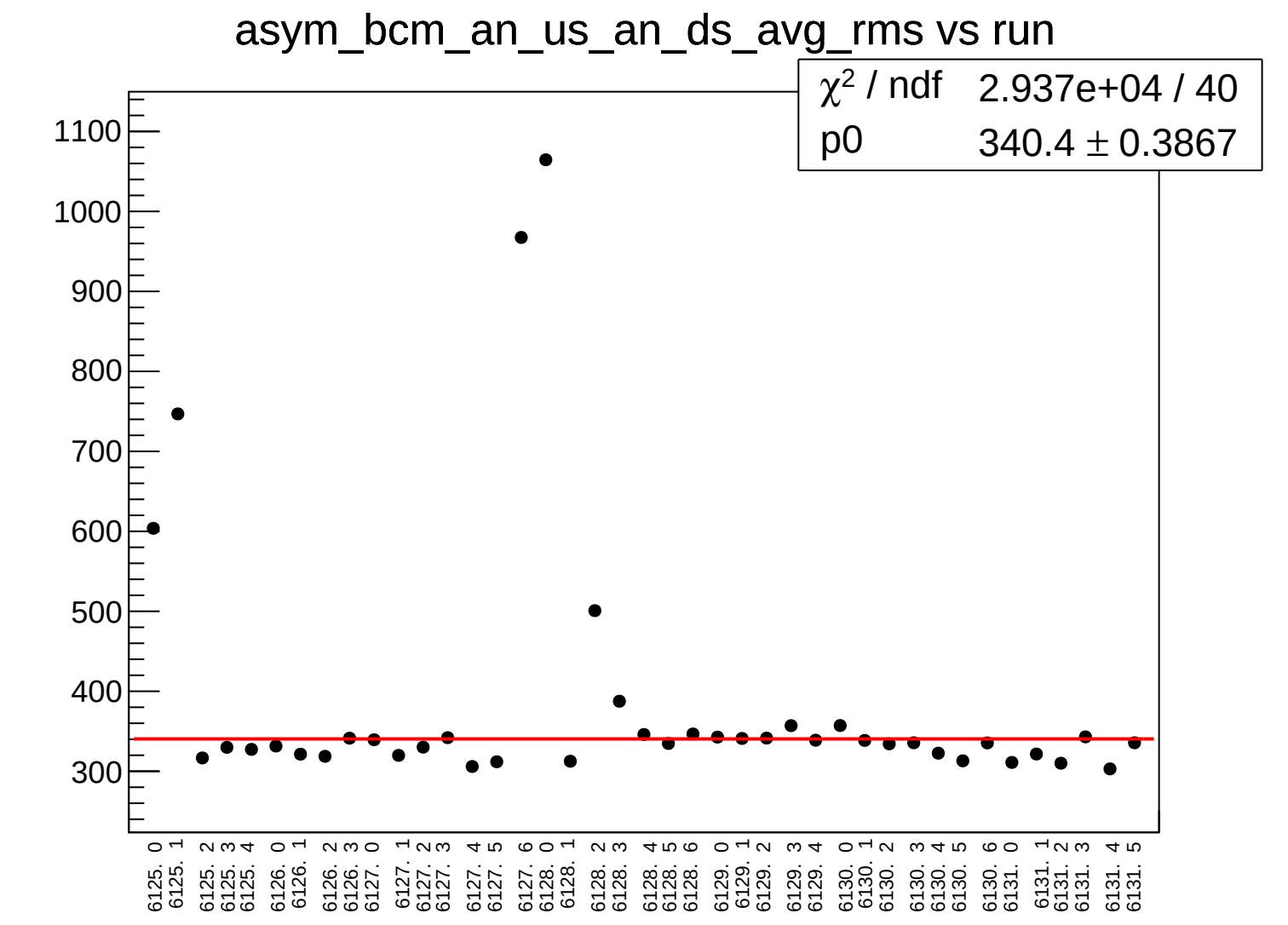

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 10.39 / 40
p0 −152.1± 184.5
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 141.2
Std Dev 0
1
0.5
0
−0.5
−1

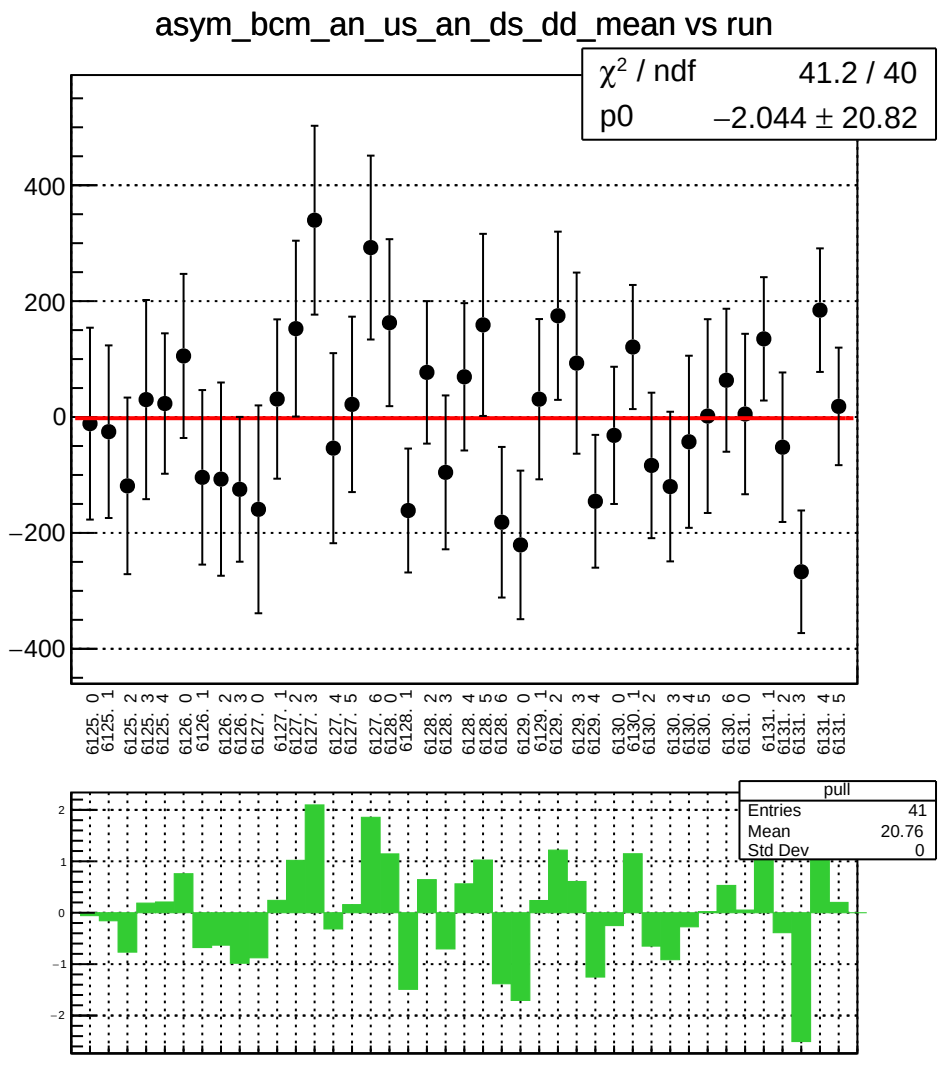

pull1D
Entries 41
Mean 0.007041
Std Dev 0.5033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

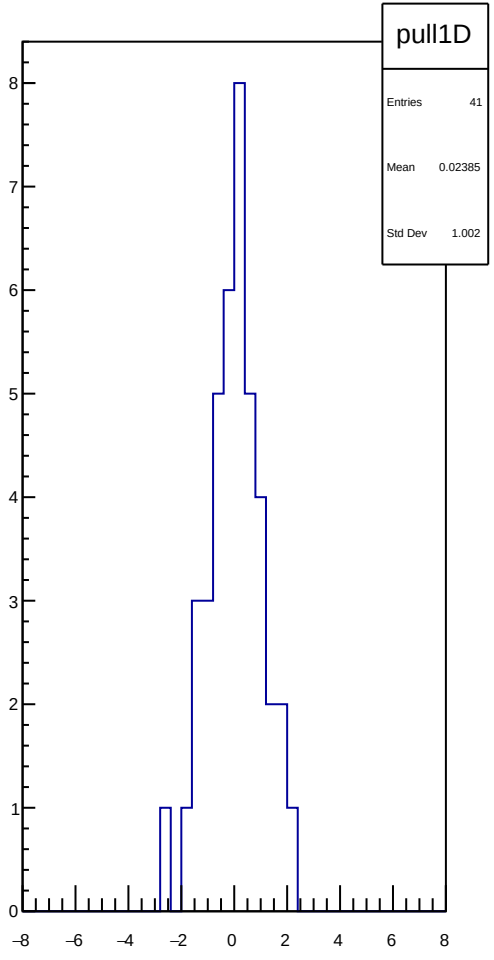

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 2.91e+04 / 40
p0 114.9 ± 0.1305
350
300
250
200
150
100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

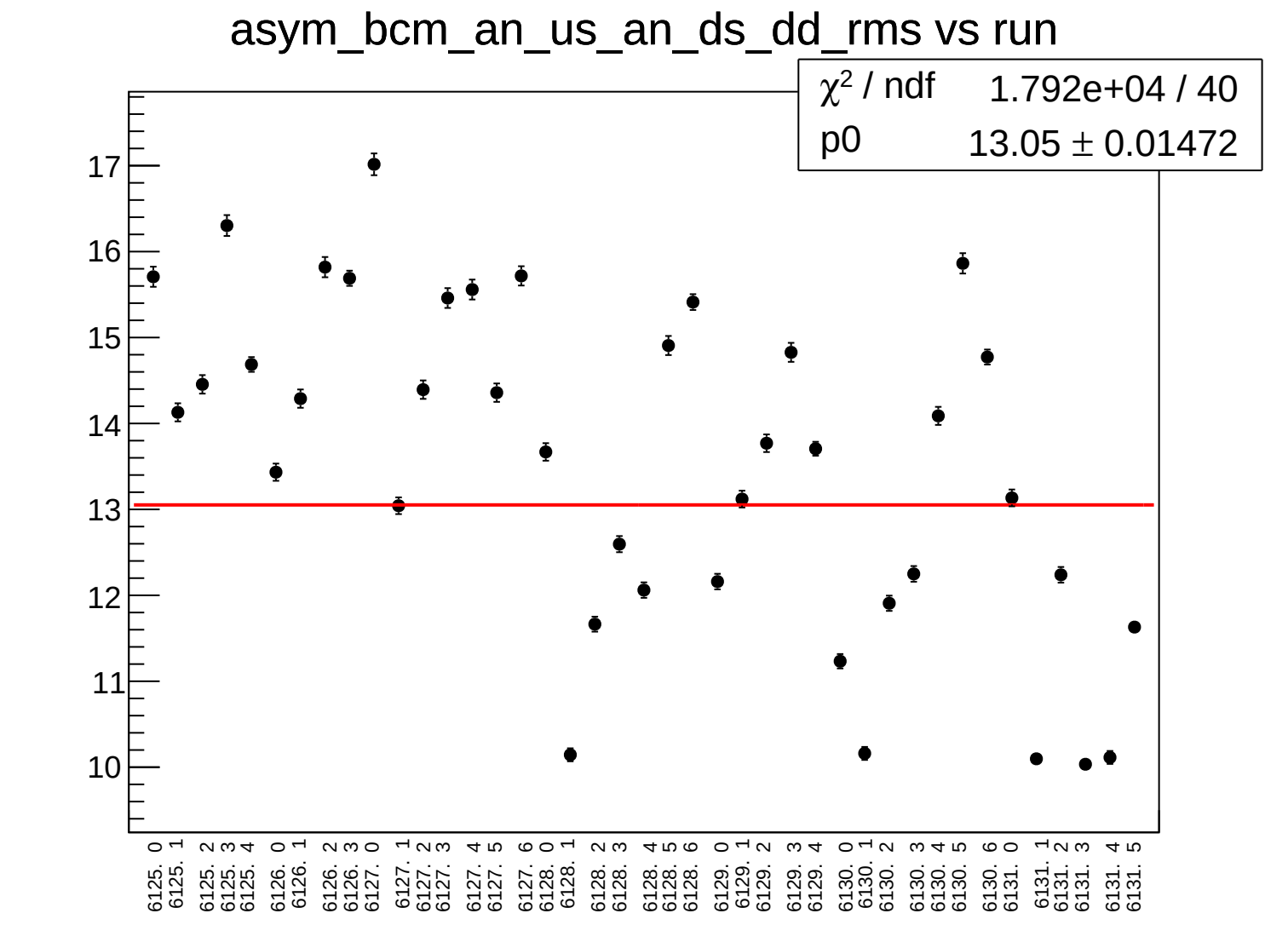

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 9.285 / 40
p0 −425.6 ± 546.9
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 315.9
Std Dev 0
1
0.5
0
−0.5
−1

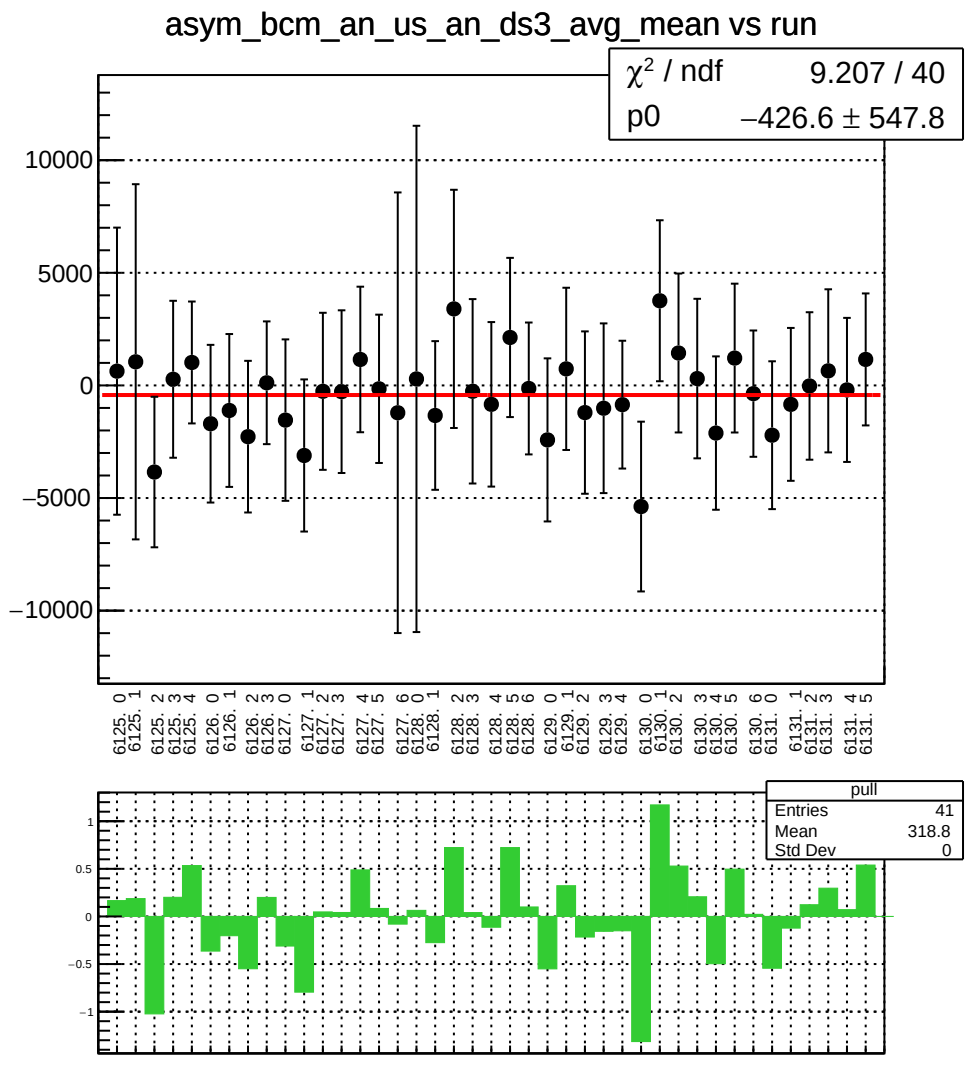

pull1D
Entries 41
Mean 0.002757
Std Dev 0.4759
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

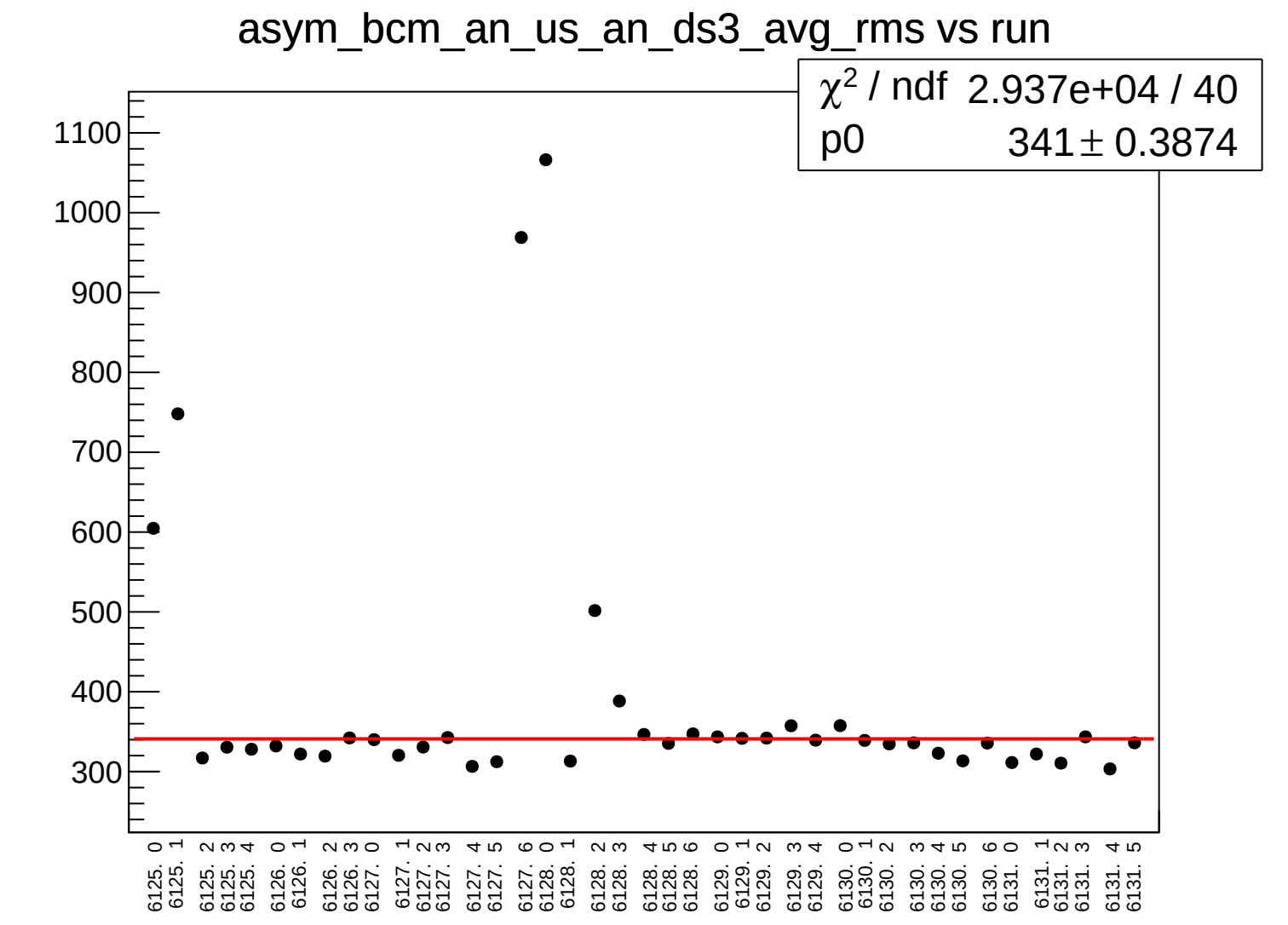

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 2.937e+04 / 40
p0 340.4 ± 0.3867
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

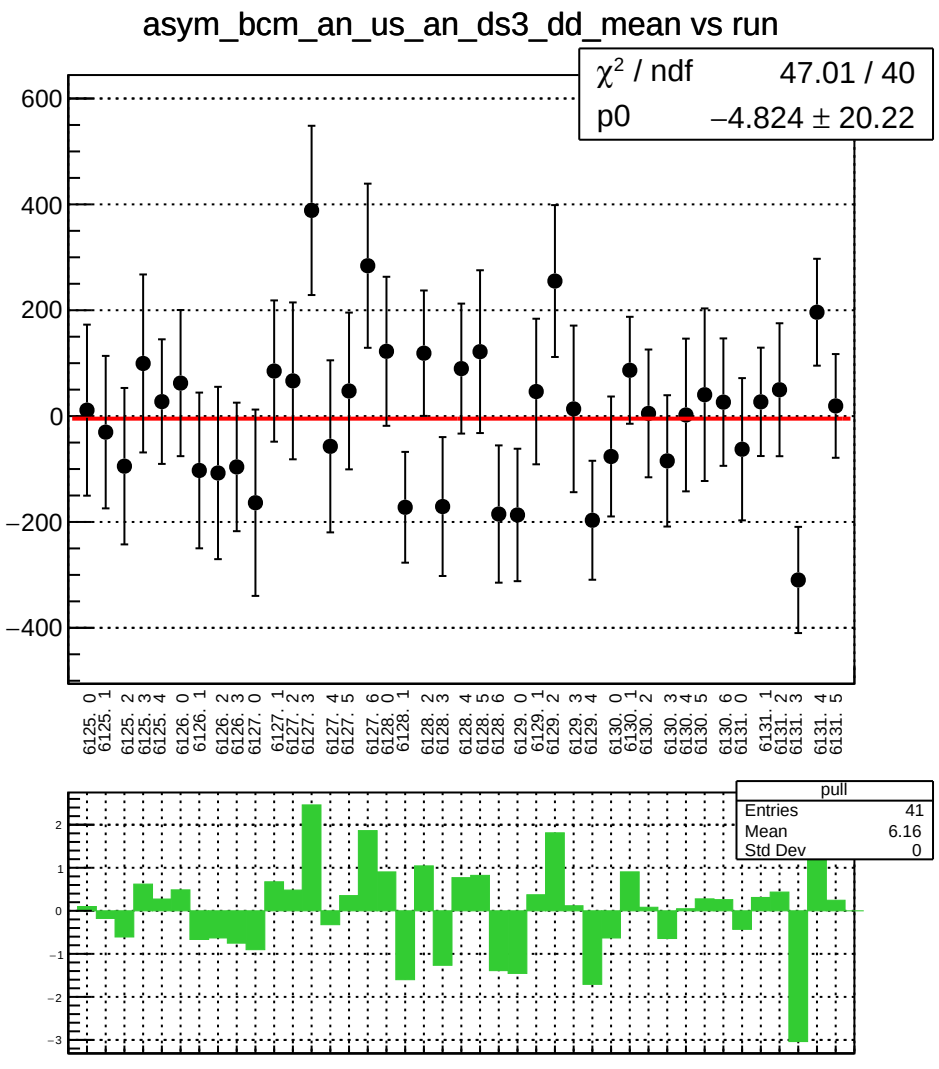

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 41.2 / 40
p0 −2.044 ± 20.82
400
200
0
−200
−400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 20.76
Std Dev 0
2
1
0
−1
−2

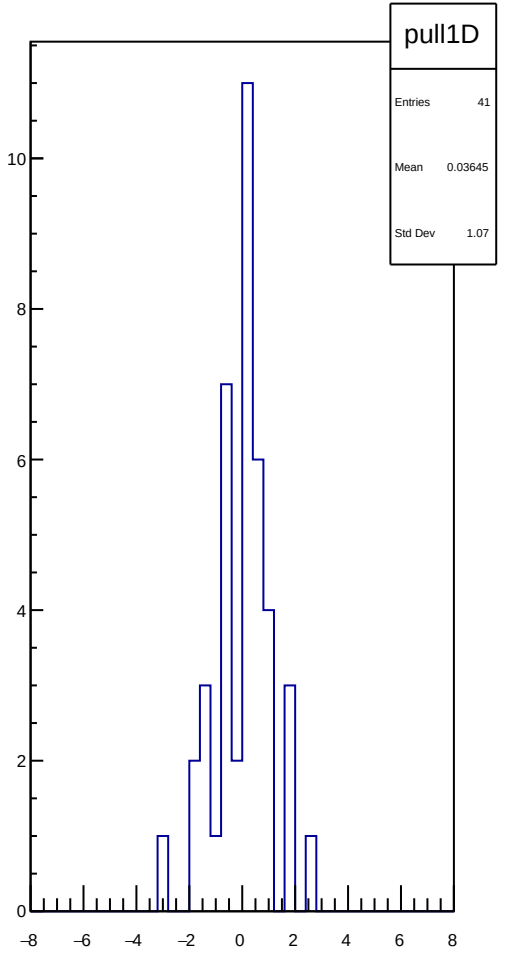

pull1D
Entries 41
Mean 0.02385
Std Dev 1.002
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

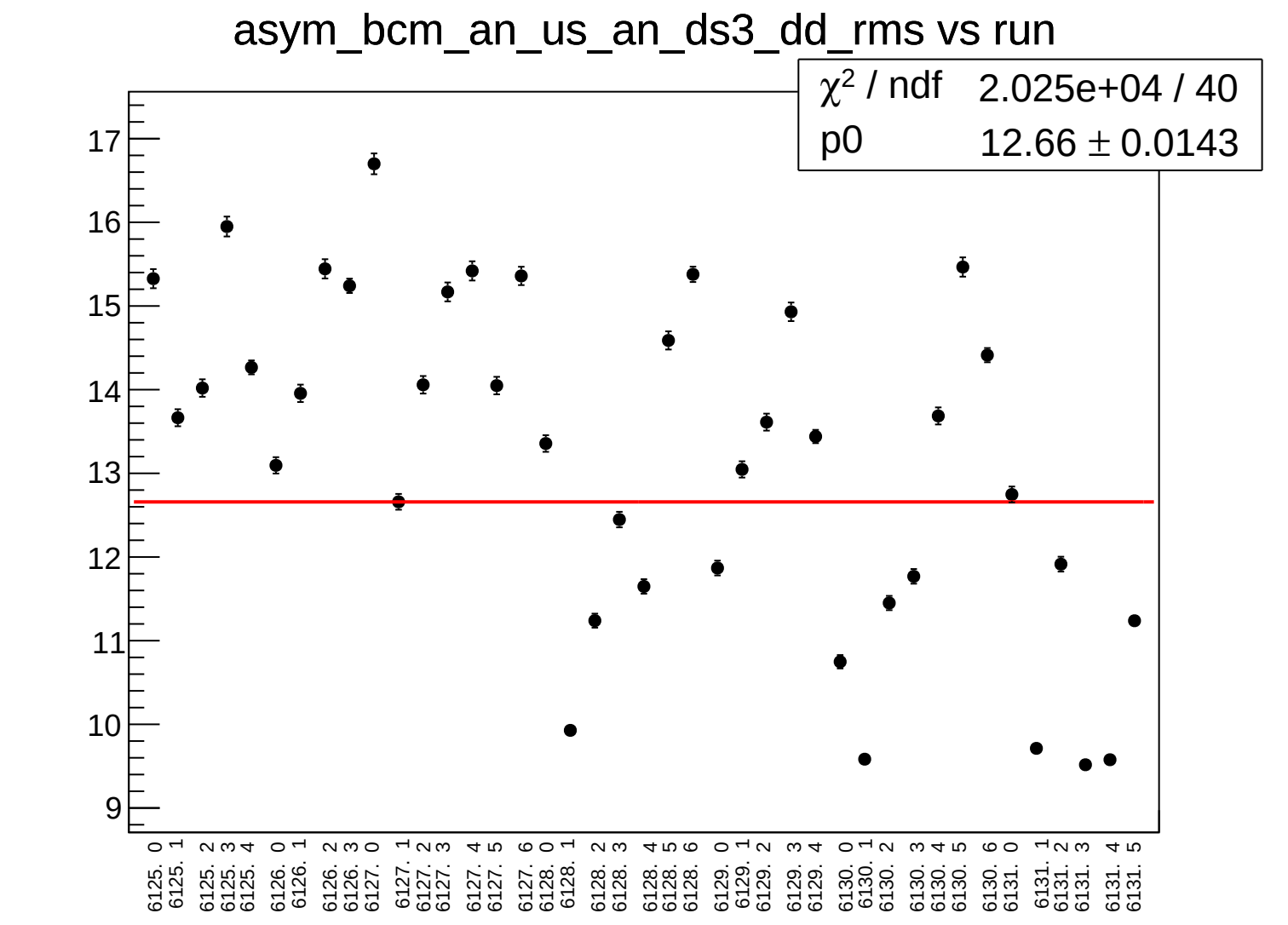

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 1.792e+04 / 40
p0 13.05 ± 0.01472
17
16
15
14
13
12
11
10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

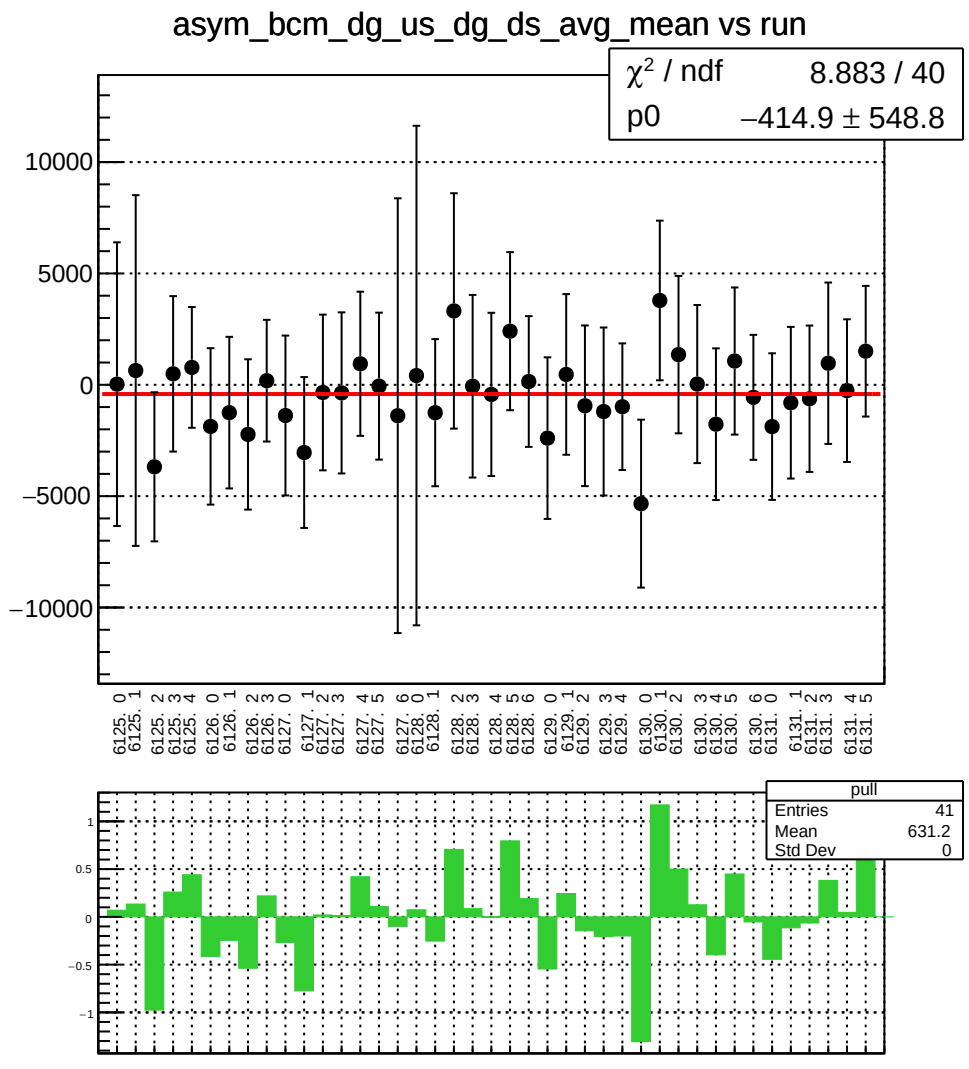

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 9.207 / 40
p0 −426.6 ± 547.8
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 318.8
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.00279
Std Dev 0.4739
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

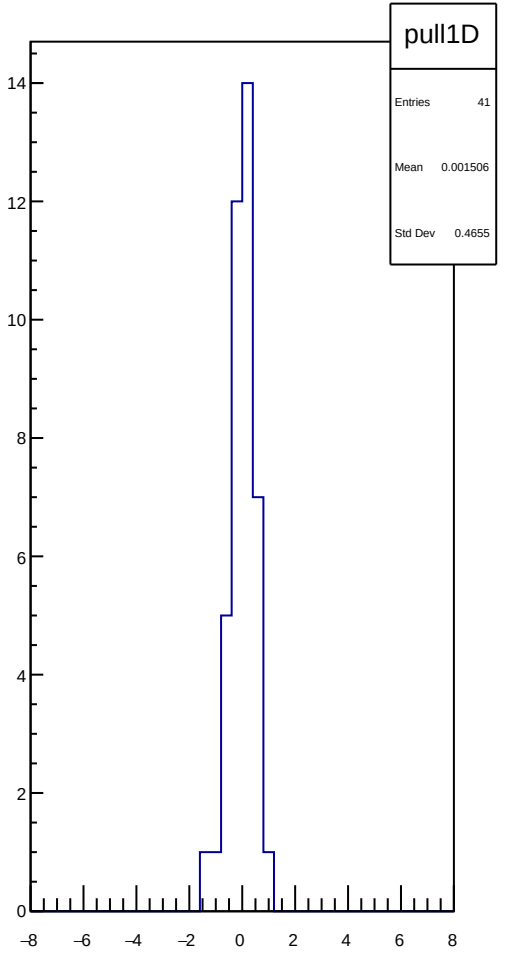

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 2.937e+04 / 40
p0 341 ± 0.3874
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

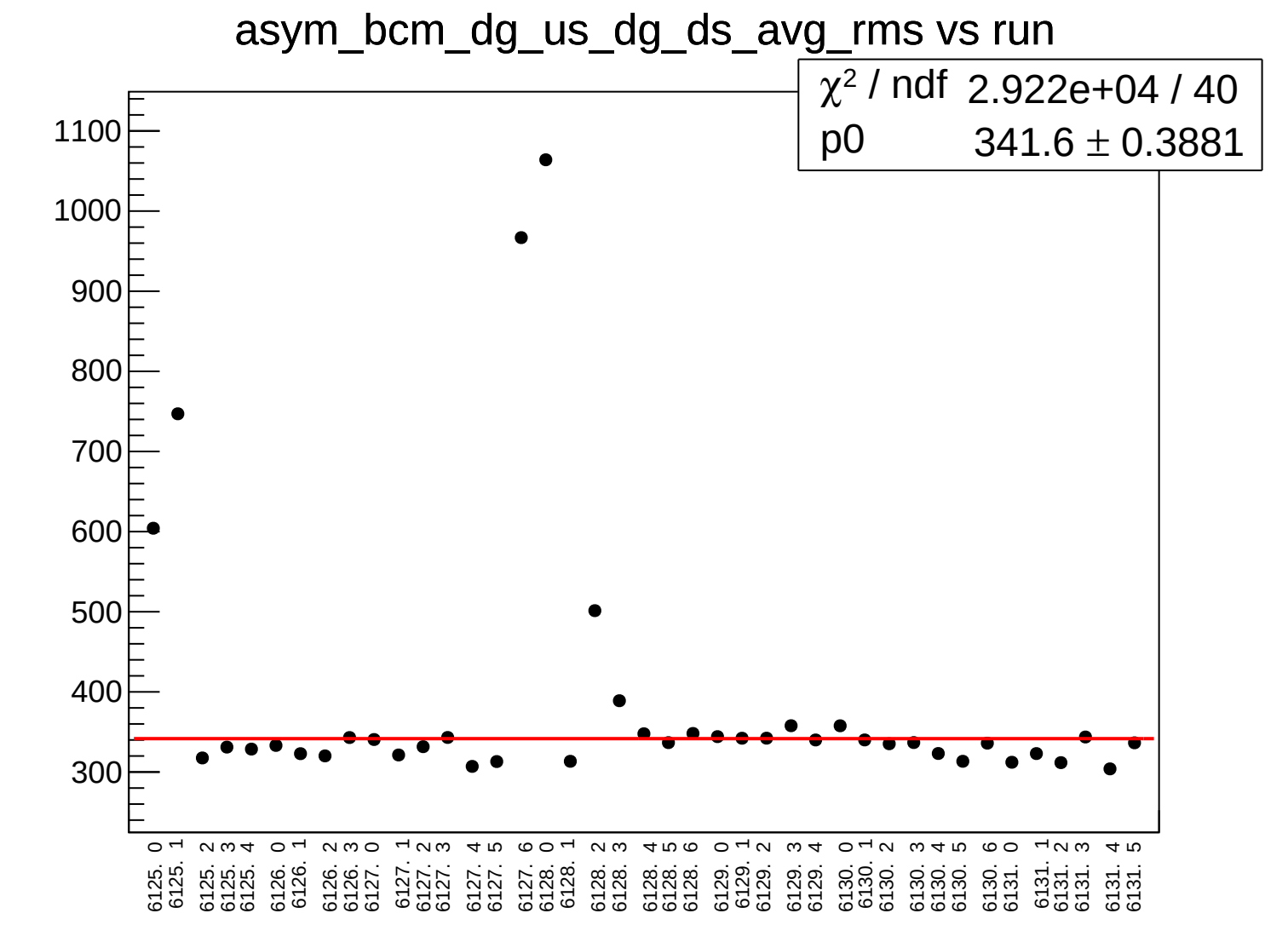

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 47.01 / 40
p0 −4.824 ± 20.22
600
400
200
0
−200
−400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 6.16
Std Dev 0
2
1
0
−1
−2
−3

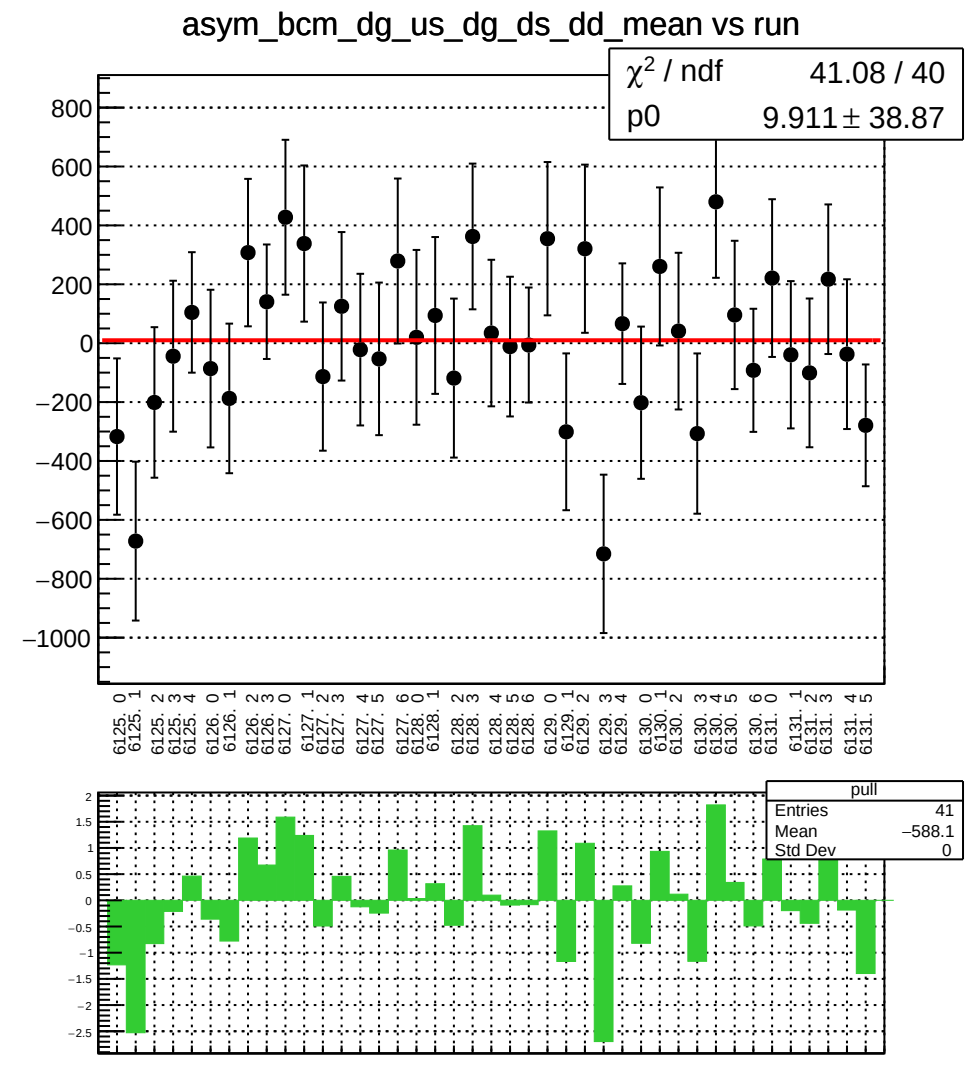

pull1D
Entries 41
Mean 0.03645
Std Dev 1.07
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

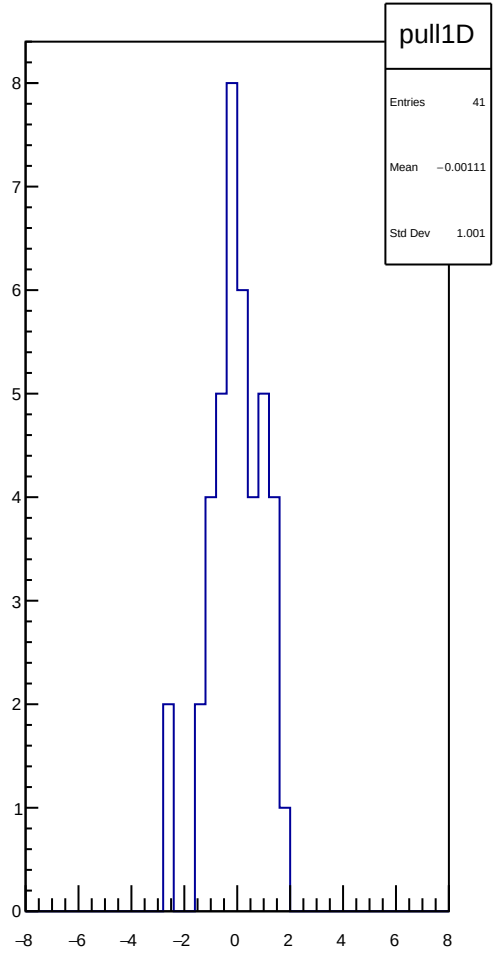

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 2.025e+04 / 40
p0 12.66 ± 0.0143
17
16
15
14
13
12
11
10
9
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

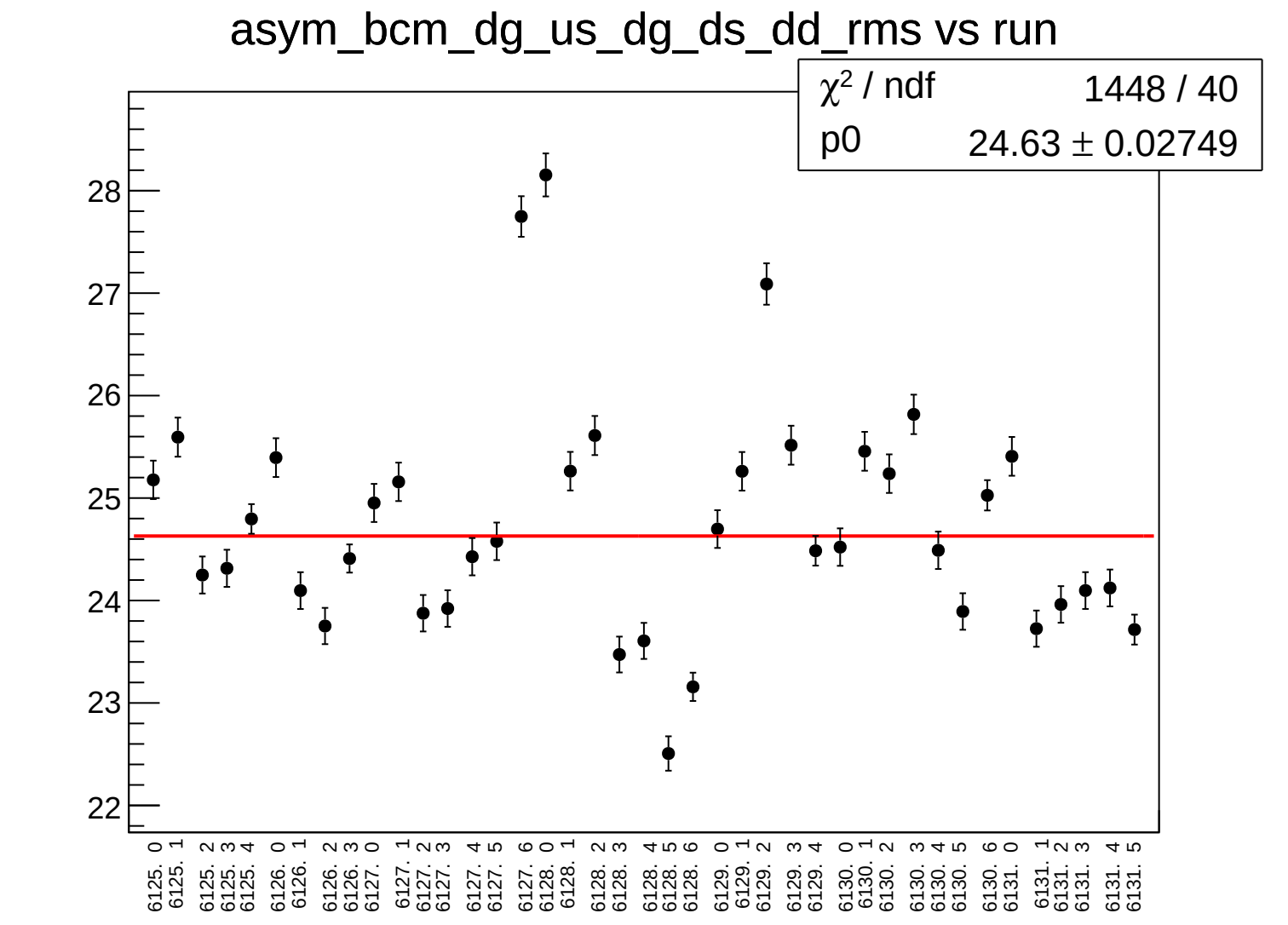

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 8.883 / 40
p0 −414.9 ± 548.8
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 631.2
Std Dev 0
1
0.5
0
−0.5
−1

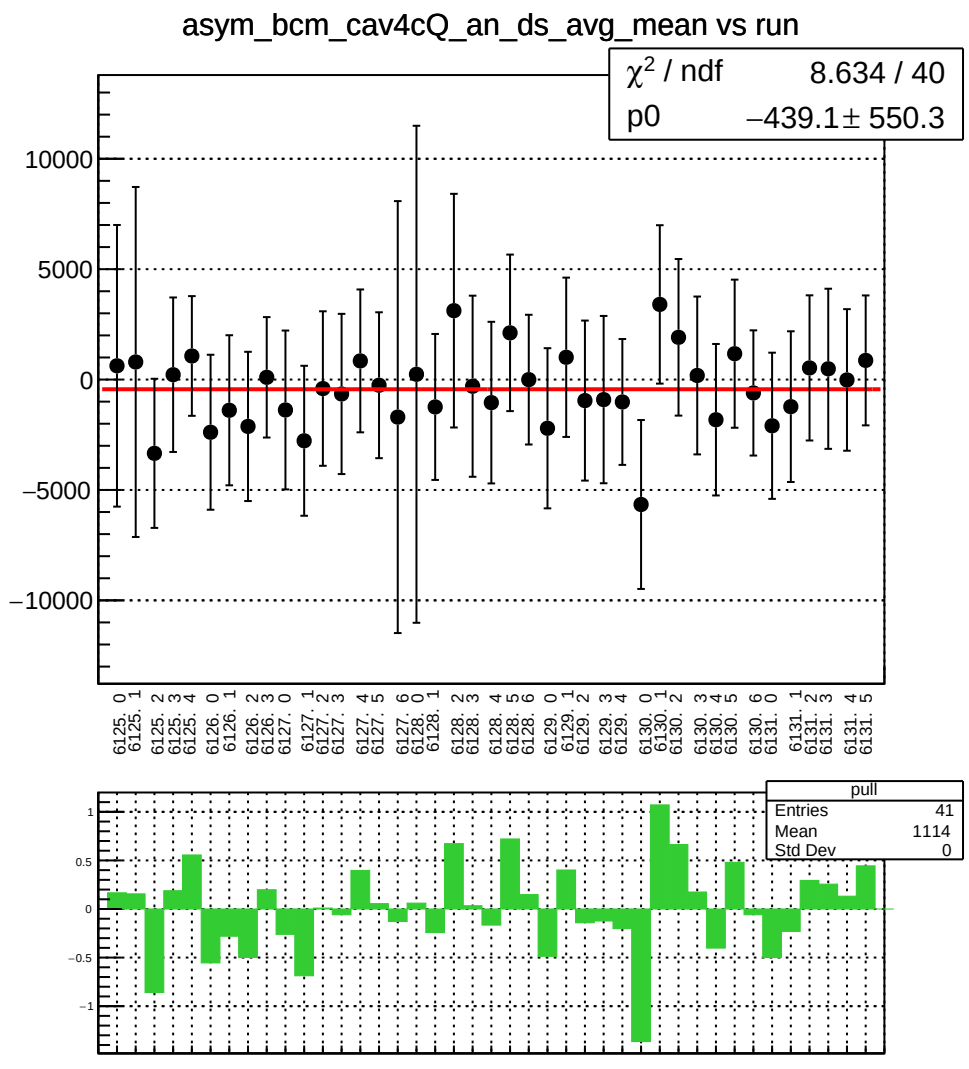

pull1D
Entries 41
Mean 0.001506
Std Dev 0.4655
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

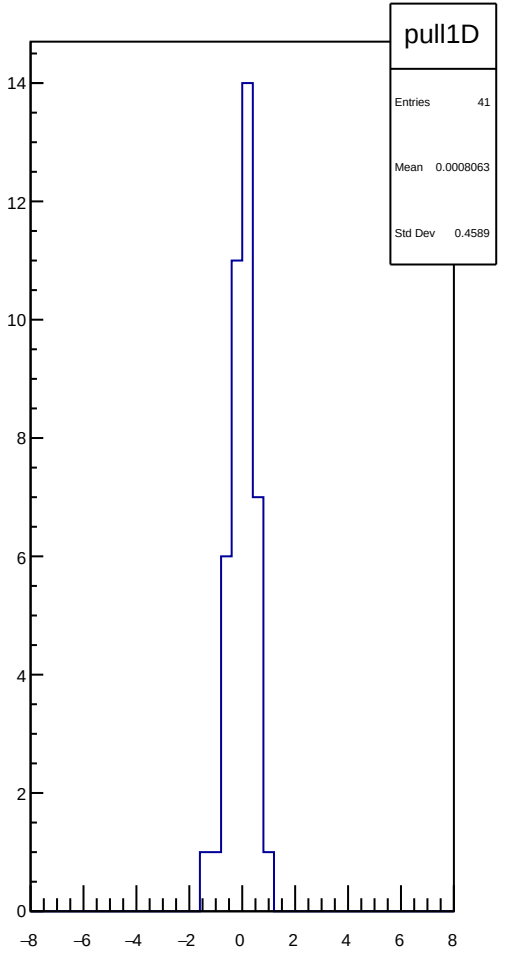

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 2.922e+04 / 40
p0 341.6 ± 0.3881
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

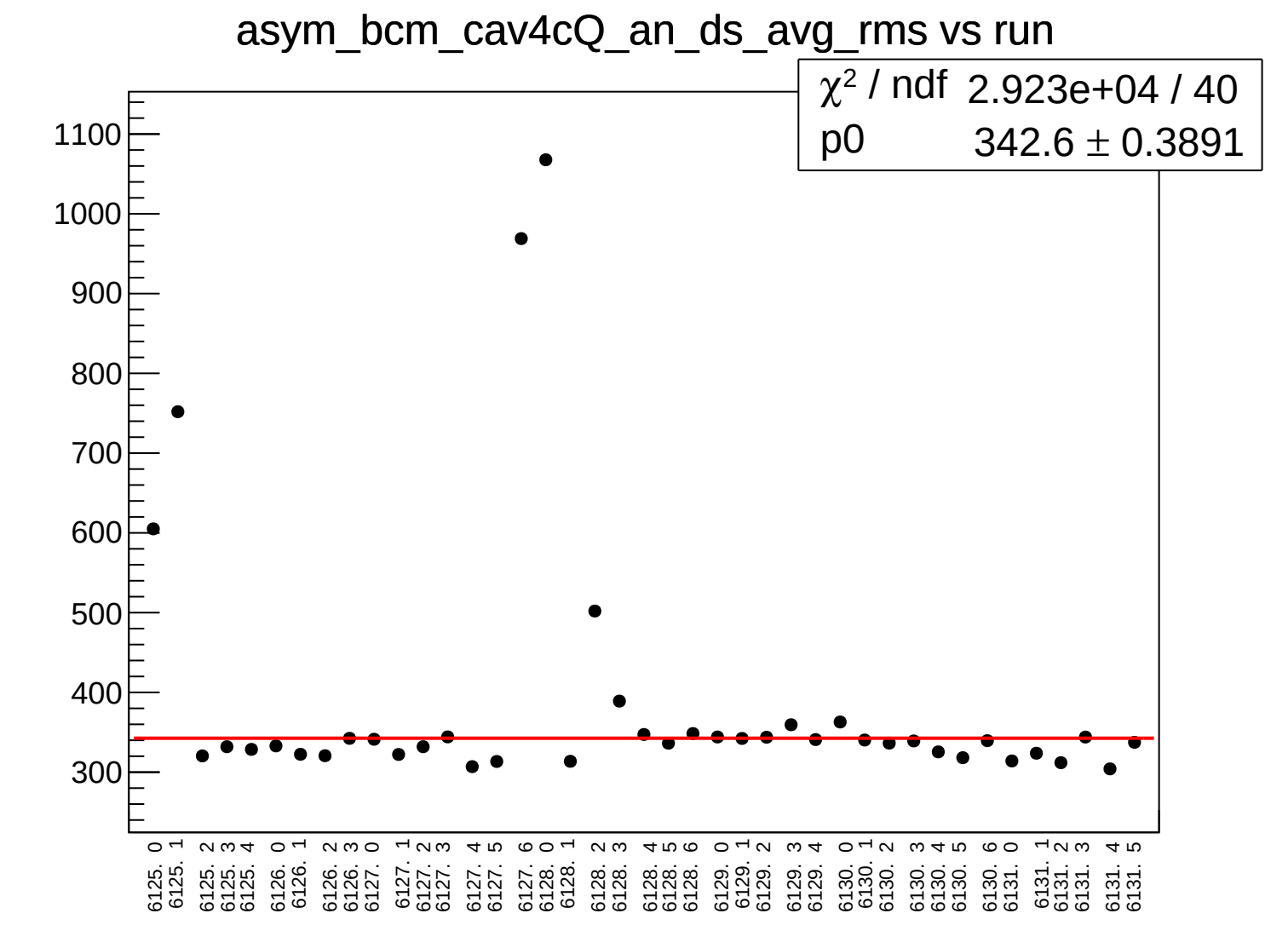

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 41.08 / 40
p0 9.911 ± 38.87
pull
Entries 41
Mean −588.1
Std Dev 0

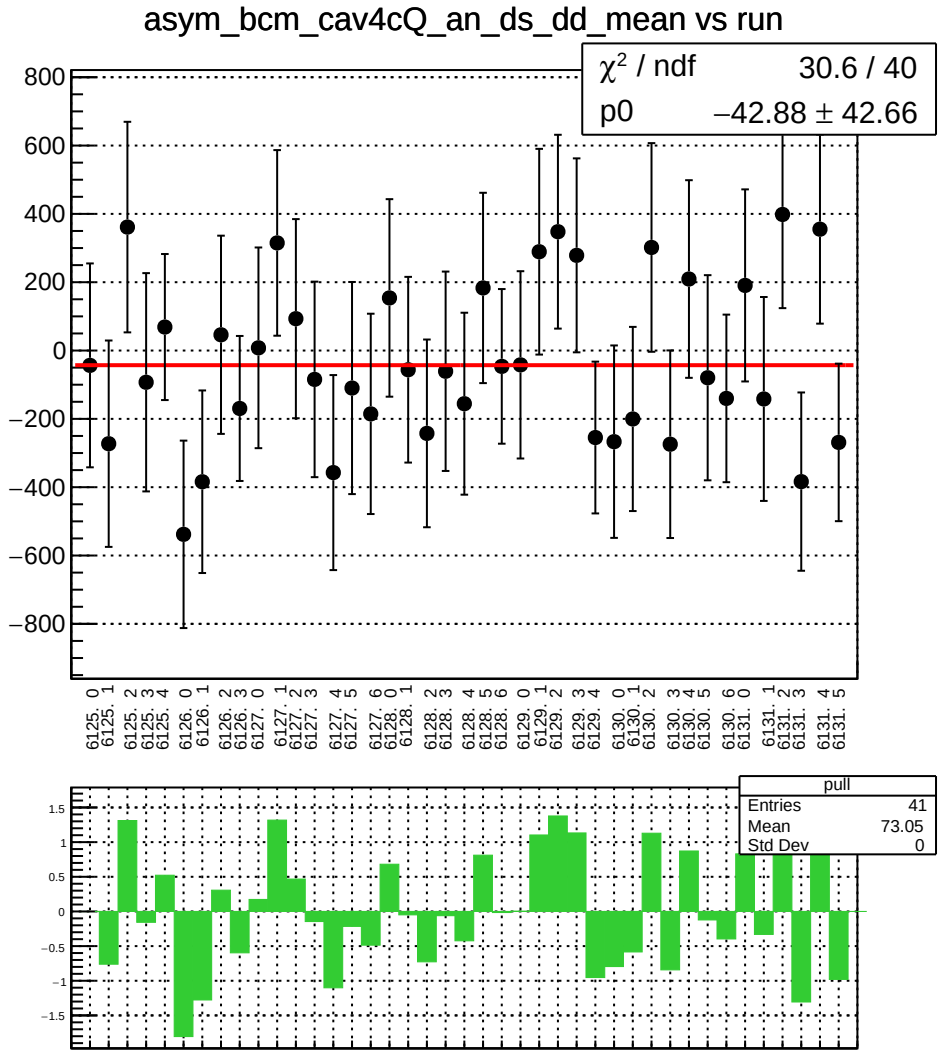

pull1D
Entries 41
Mean −0.00111
Std Dev 1.001

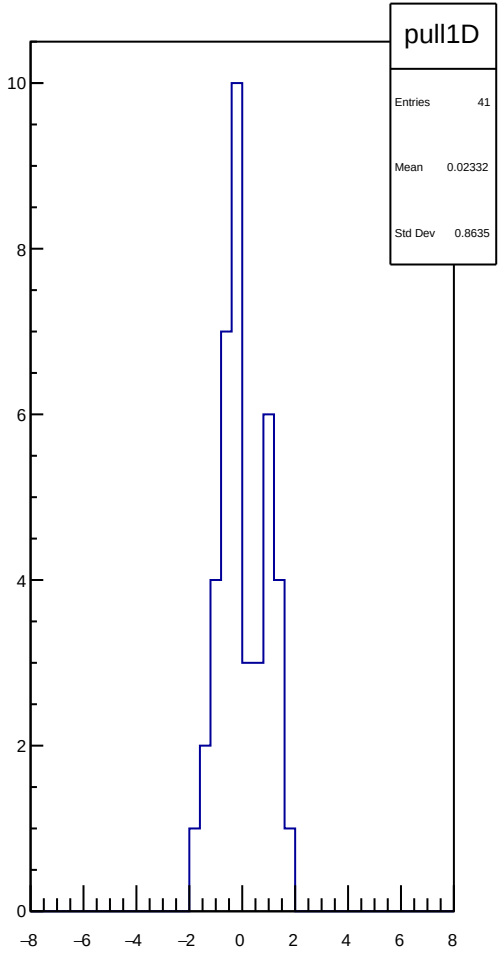

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 1448 / 40
p0 24.63 ± 0.02749
28
27
26
25
24
23
22
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

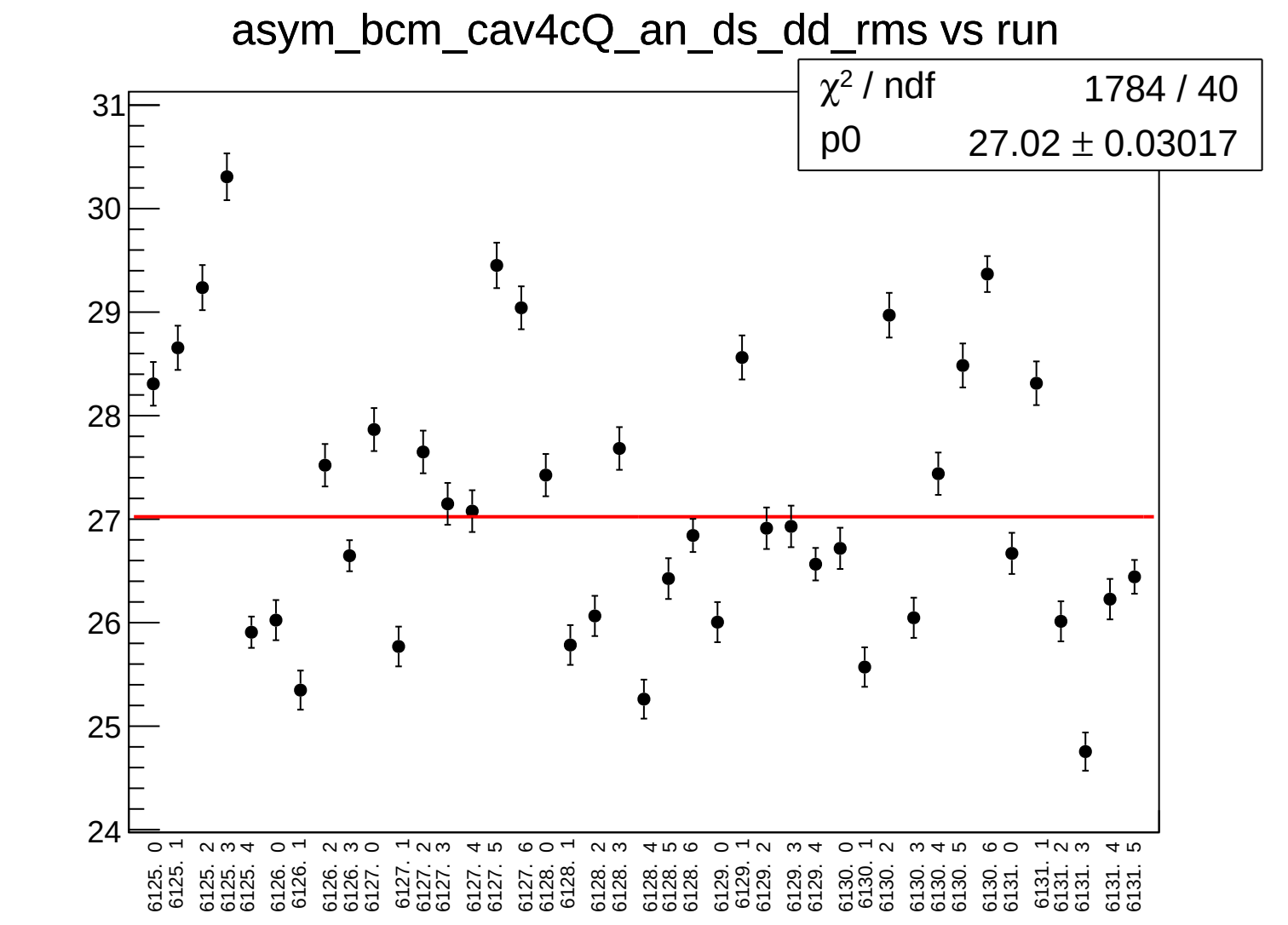

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 8.634 / 40
p0 −439.1 ± 550.3
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1114
Std Dev 0
1
0.5
0
−0.5
−1

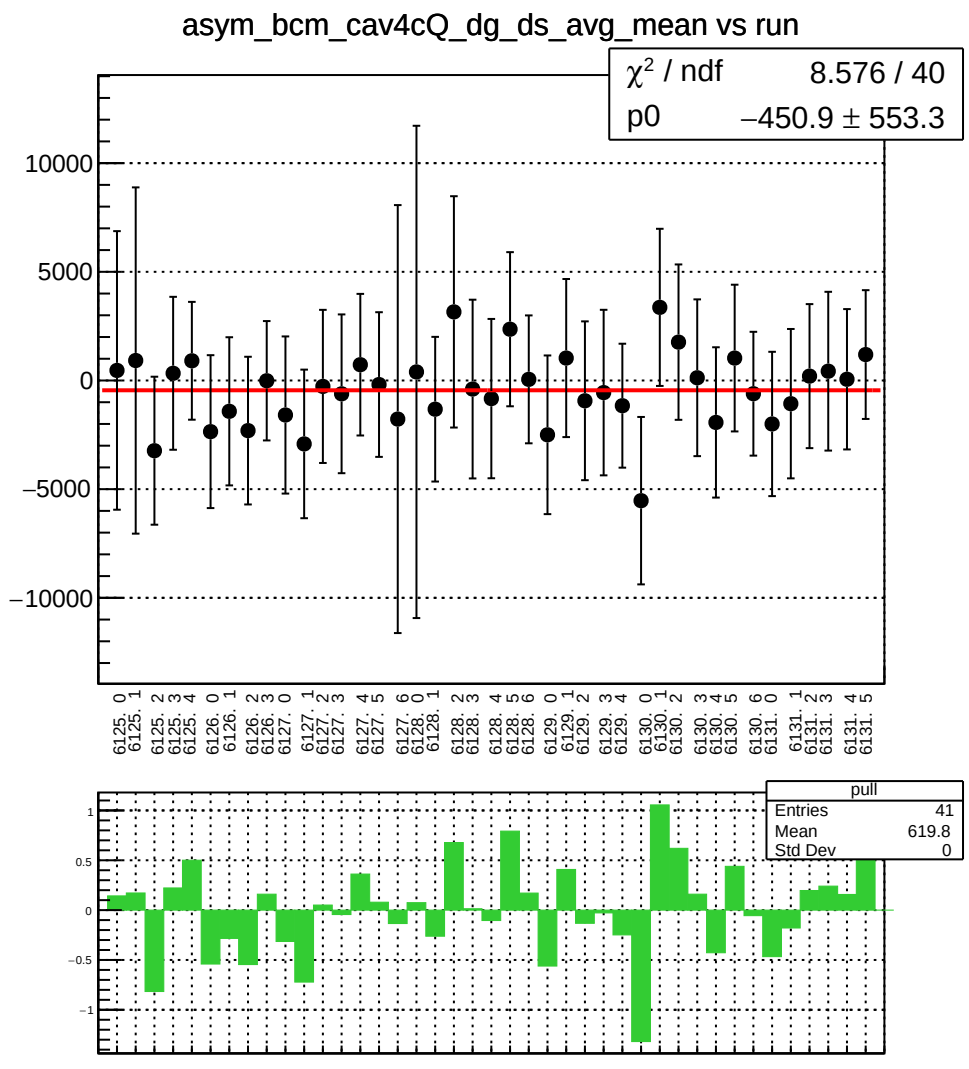

pull1D
Entries 41
Mean 0.0008063
Std Dev 0.4589
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

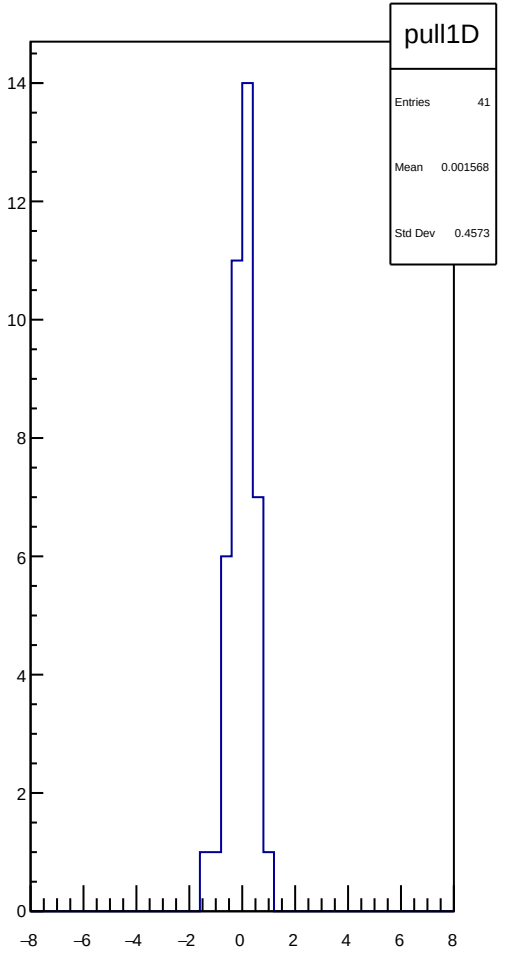

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 2.923e+04 / 40
p0 342.6 ± 0.3891
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

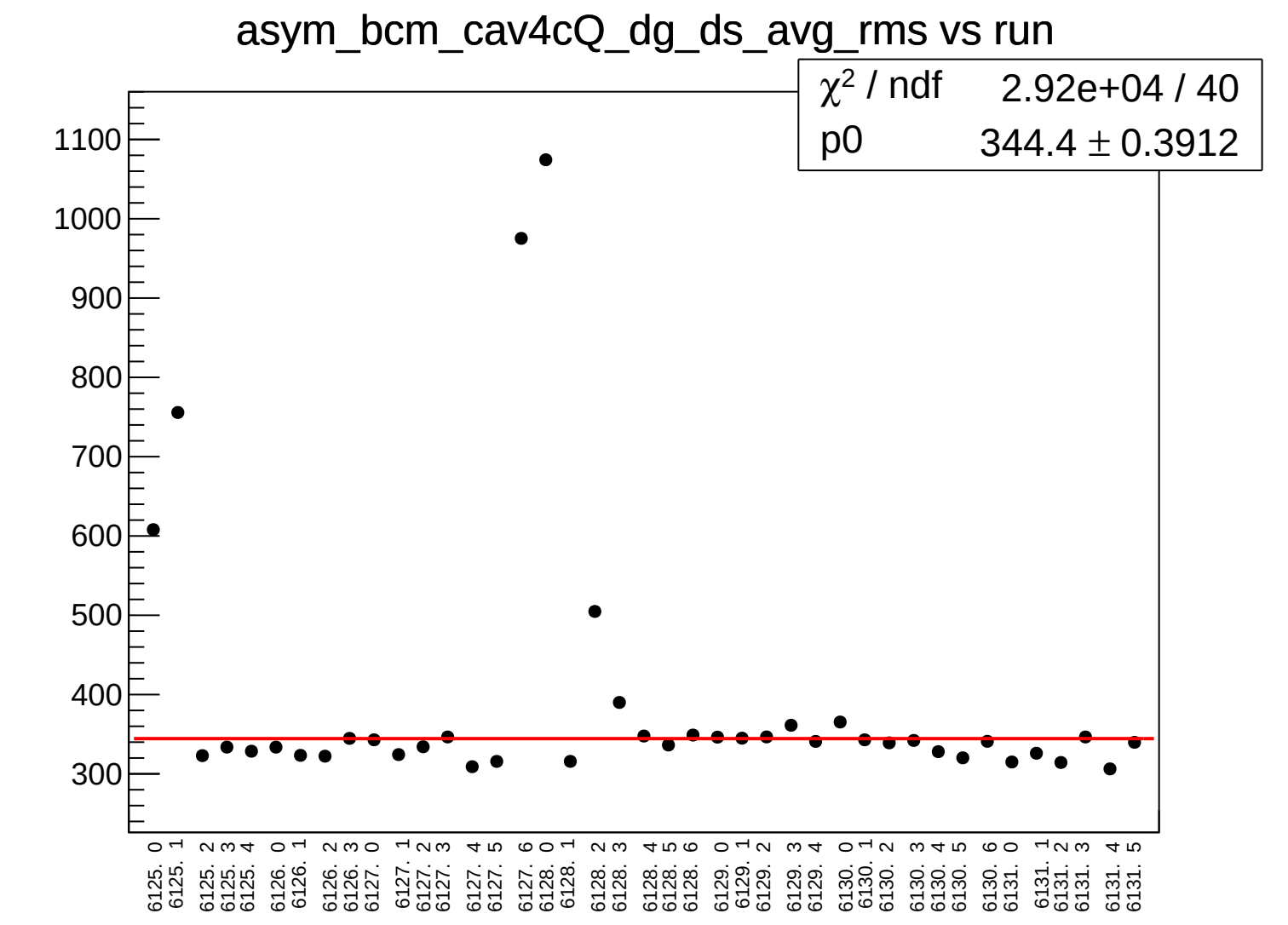

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 30.6 / 40
p0 −42.88 ± 42.66
pull
Entries 41
Mean 73.05
Std Dev 0

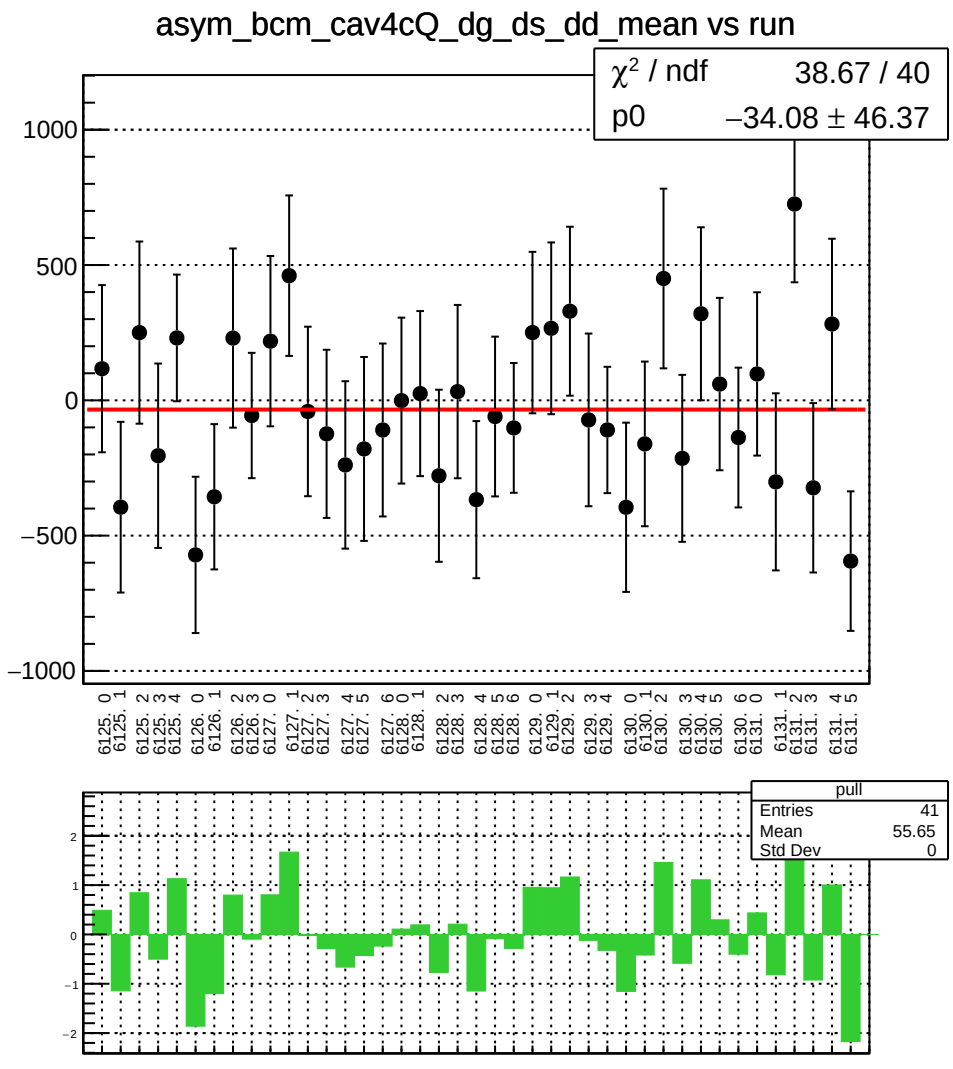

pull1D
Entries 41
Mean 0.02332
Std Dev 0.8635

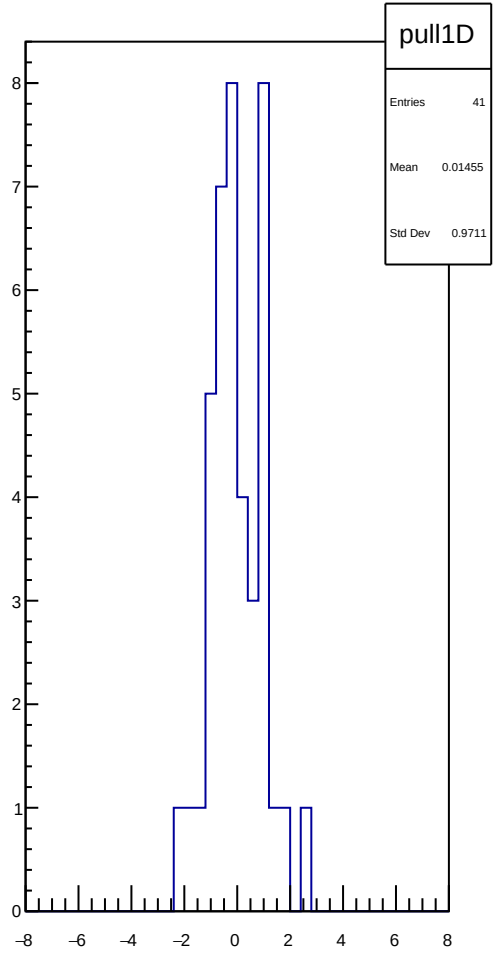

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 1784 / 40
p0 27.02 ± 0.03017
31
30
29
28
27
26
25
24
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

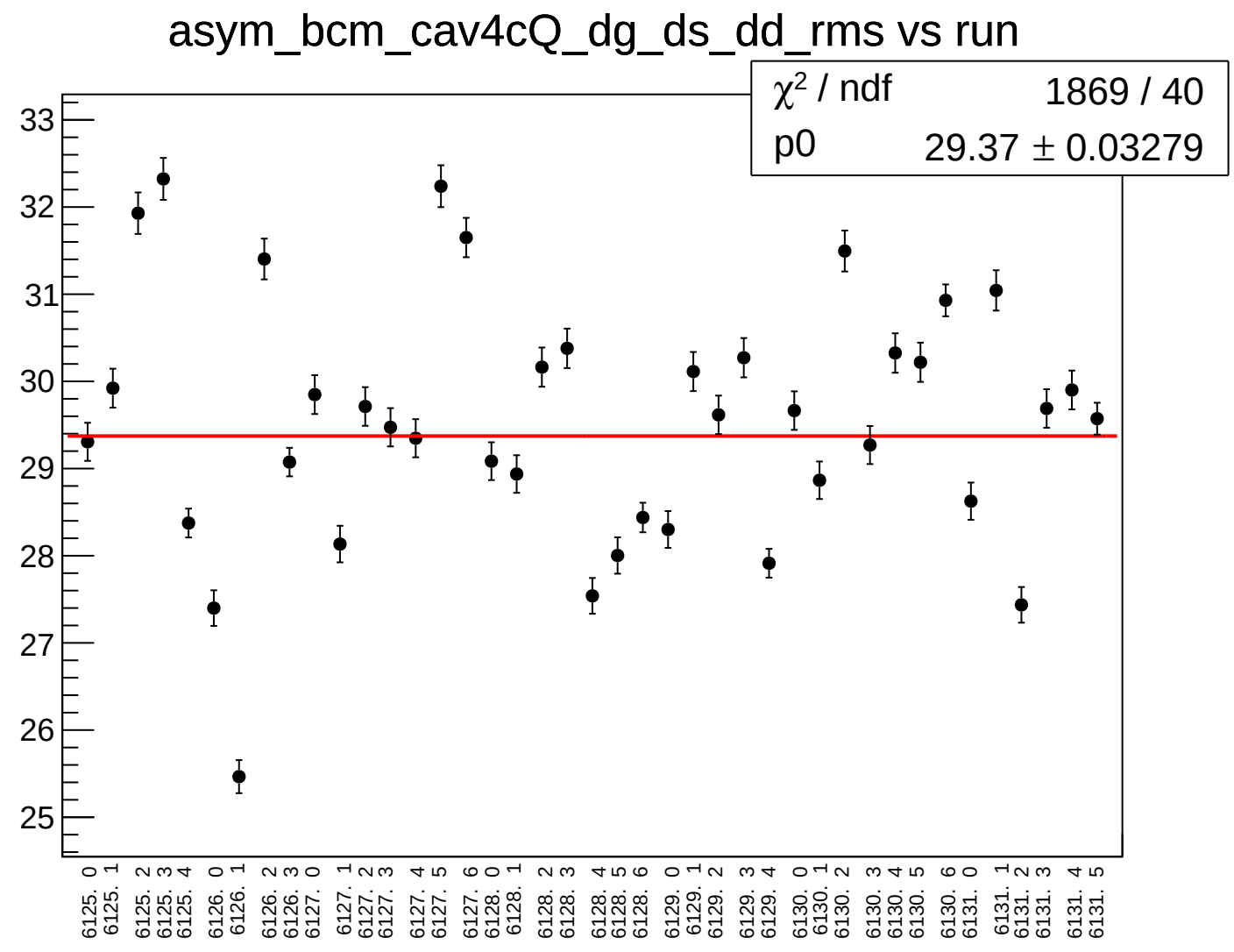

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 8.576 / 40
p0 −450.9 ± 553.3
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 619.8
Std Dev 0
1
0.5
0
−0.5
−1

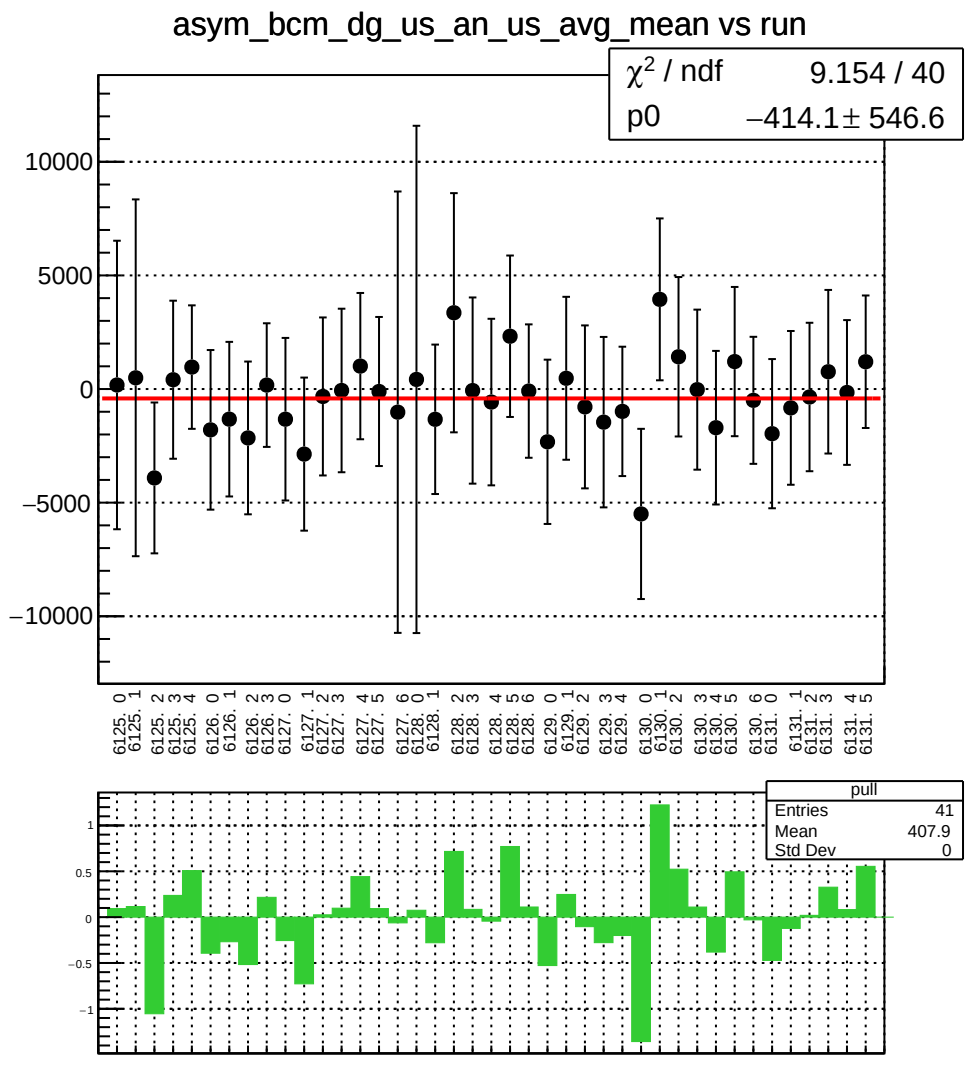

pull1D
Entries 41
Mean 0.001568
Std Dev 0.4573
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

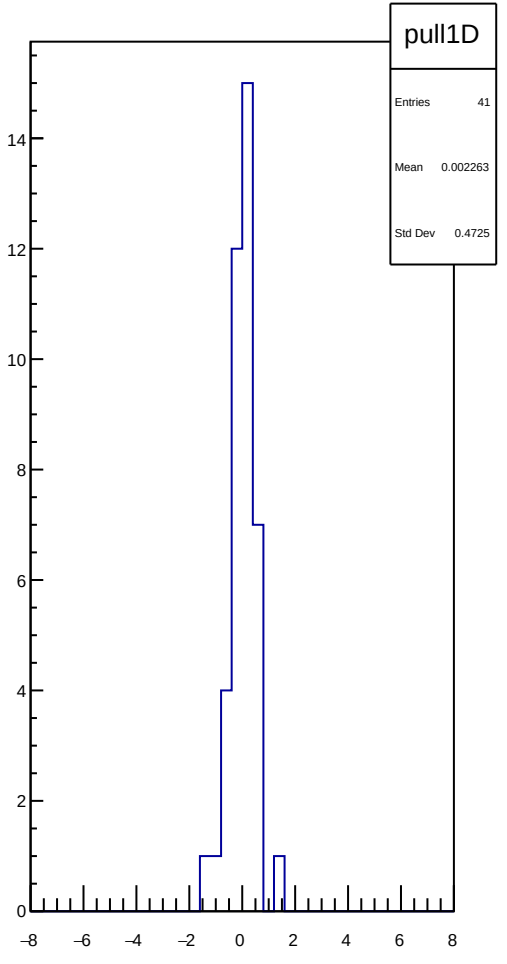

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 2.92e+04 / 40
p0 344.4 ± 0.3912
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

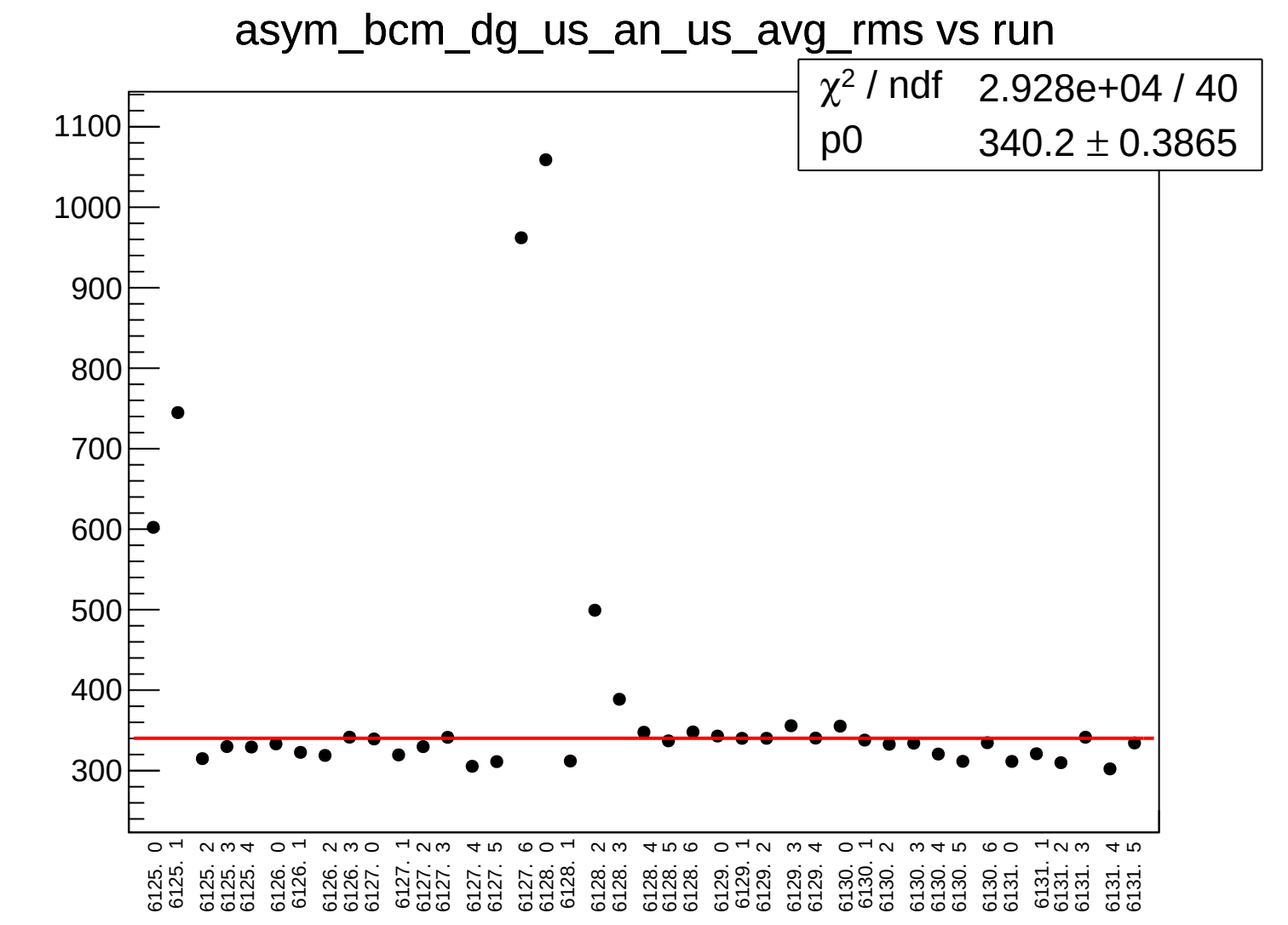

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 38.67 / 40
p0 −34.08 ± 46.37
1000
500
0
−500
−1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 55.65
Std Dev 0
2
1
0
−1
−2

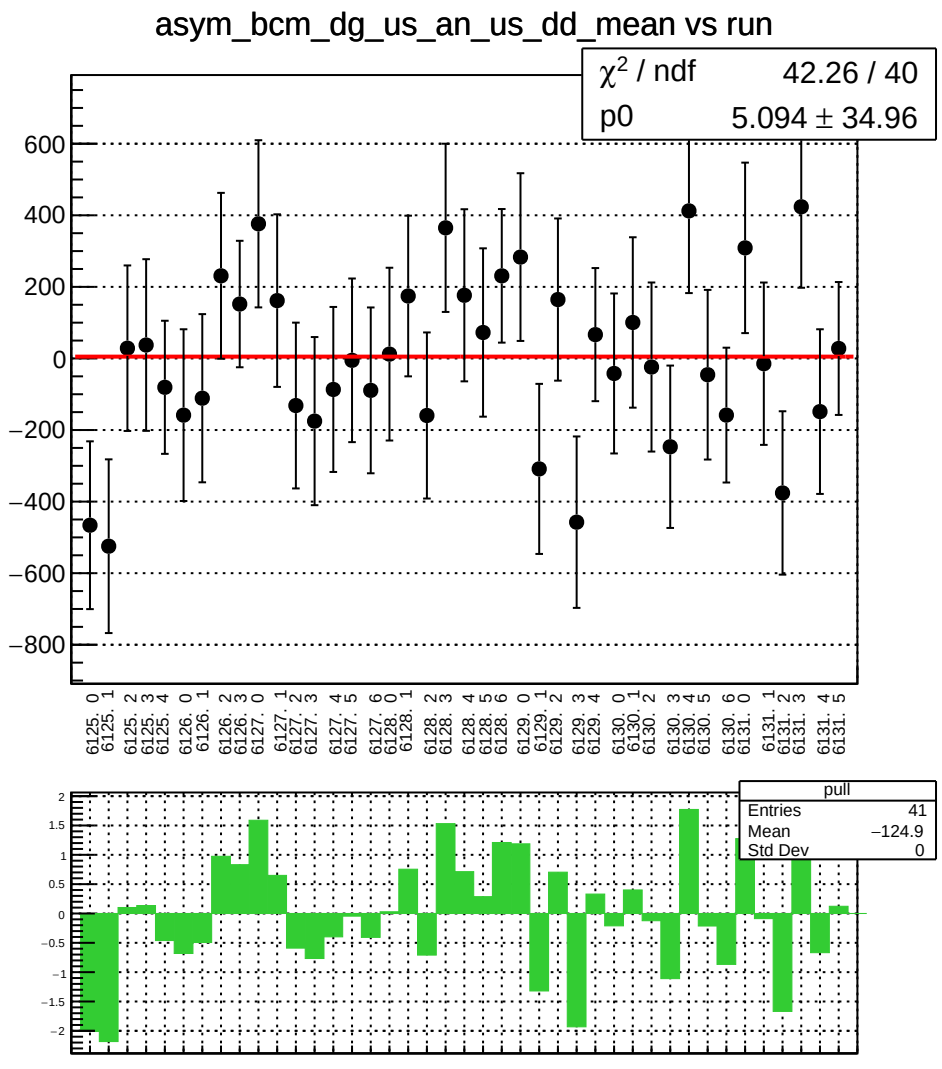

pull1D
Entries 41
Mean 0.01455
Std Dev 0.9711
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

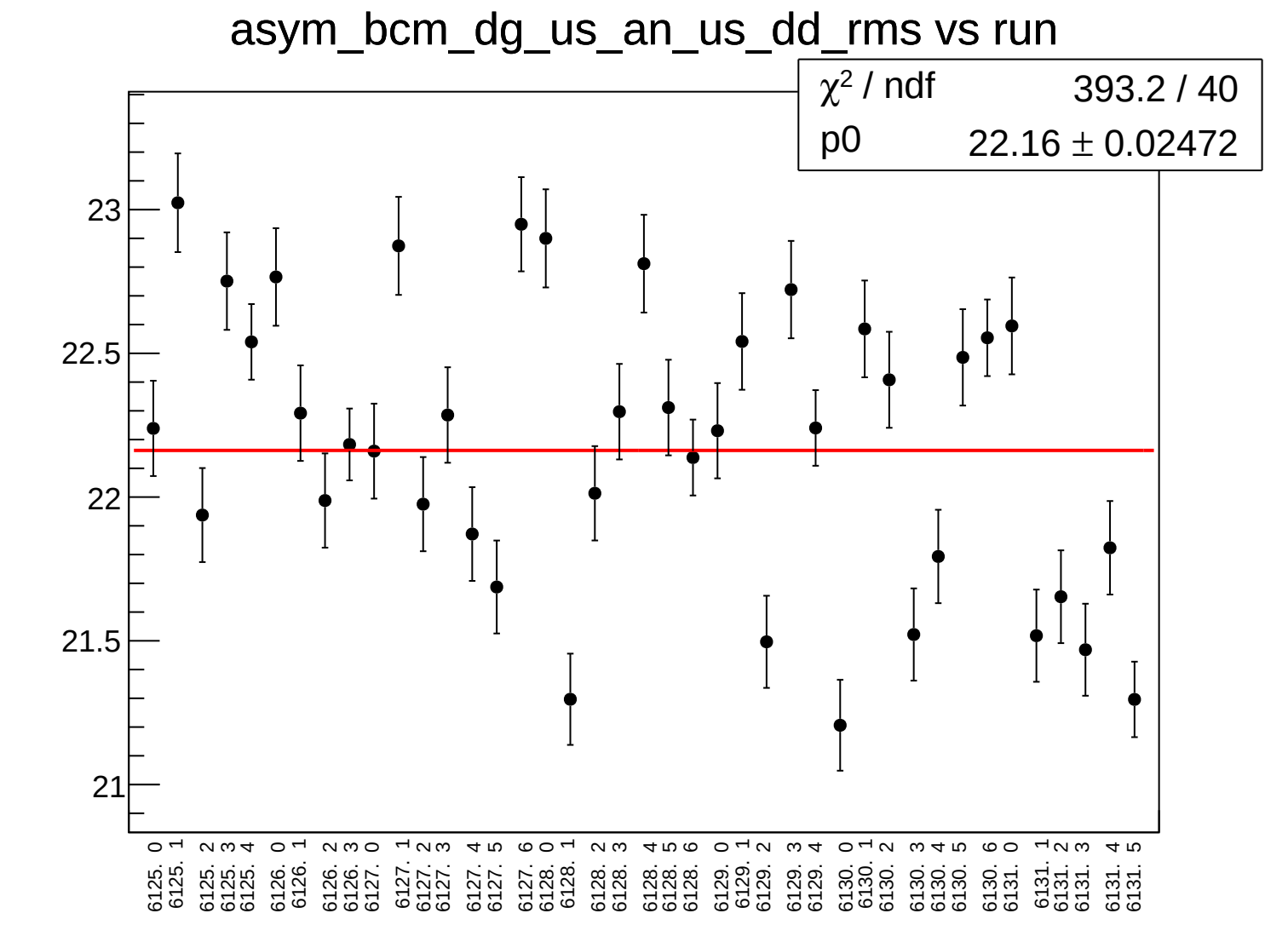

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 1869 / 40
p0 29.37 ± 0.03279
33
32
31
30
29
28
27
26
25
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

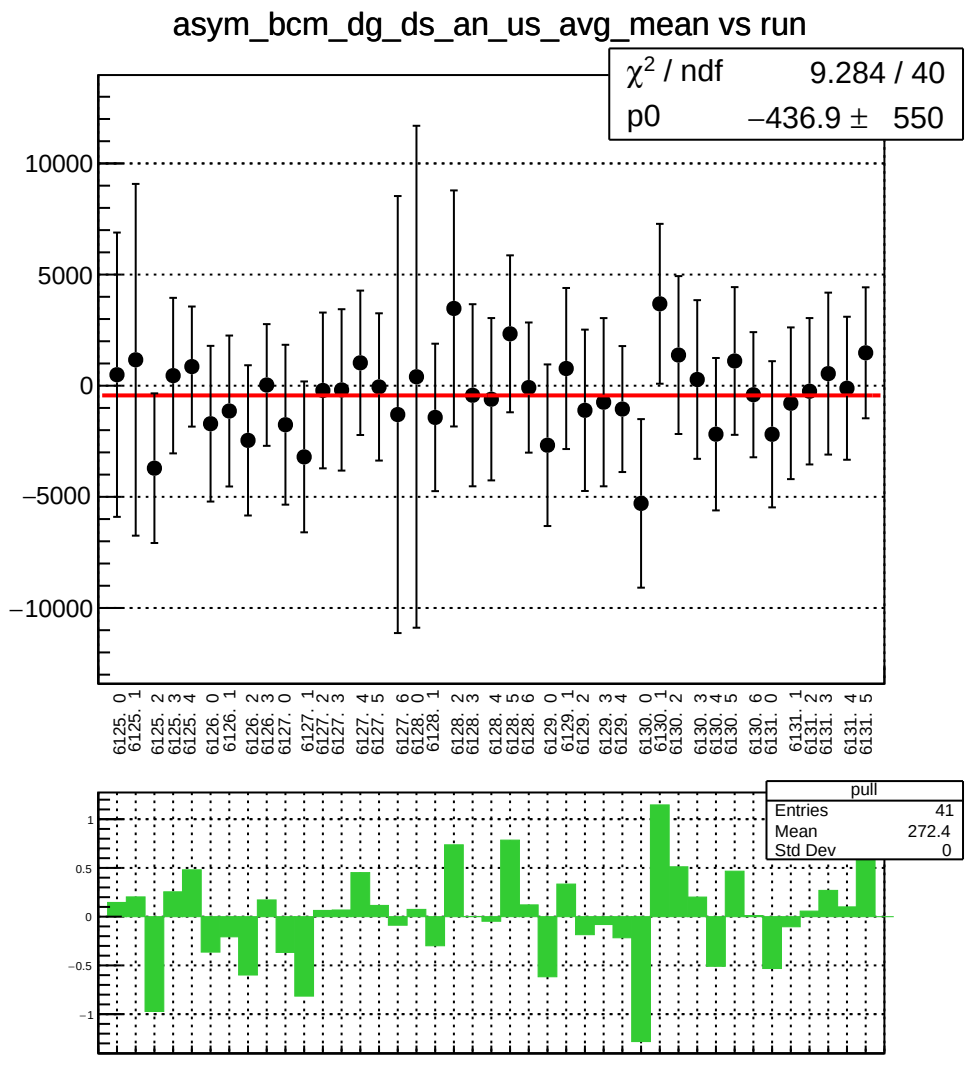

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 9.154 / 40
p0 −414.1 ± 546.6
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 407.9
Std Dev 0
1
0.5
0
−0.5
−1

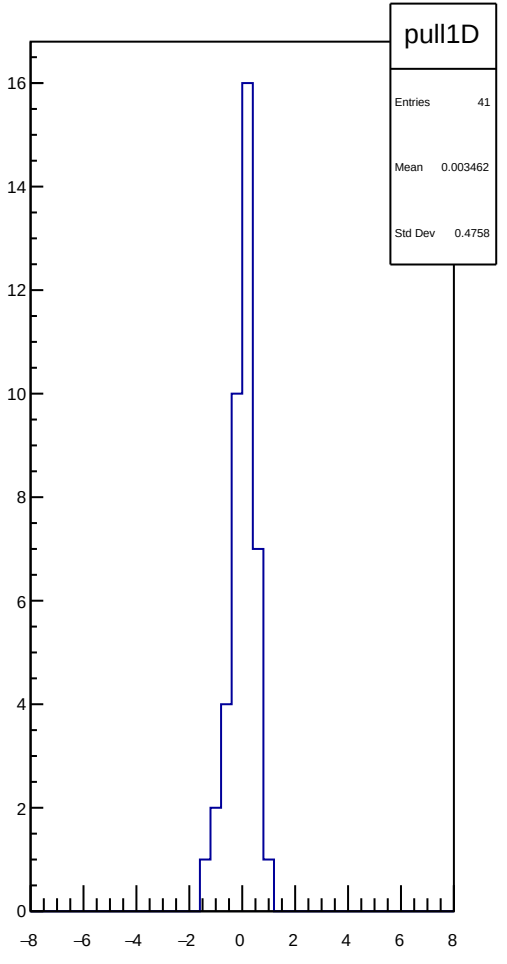

pull1D
Entries 41
Mean 0.002263
Std Dev 0.4725
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

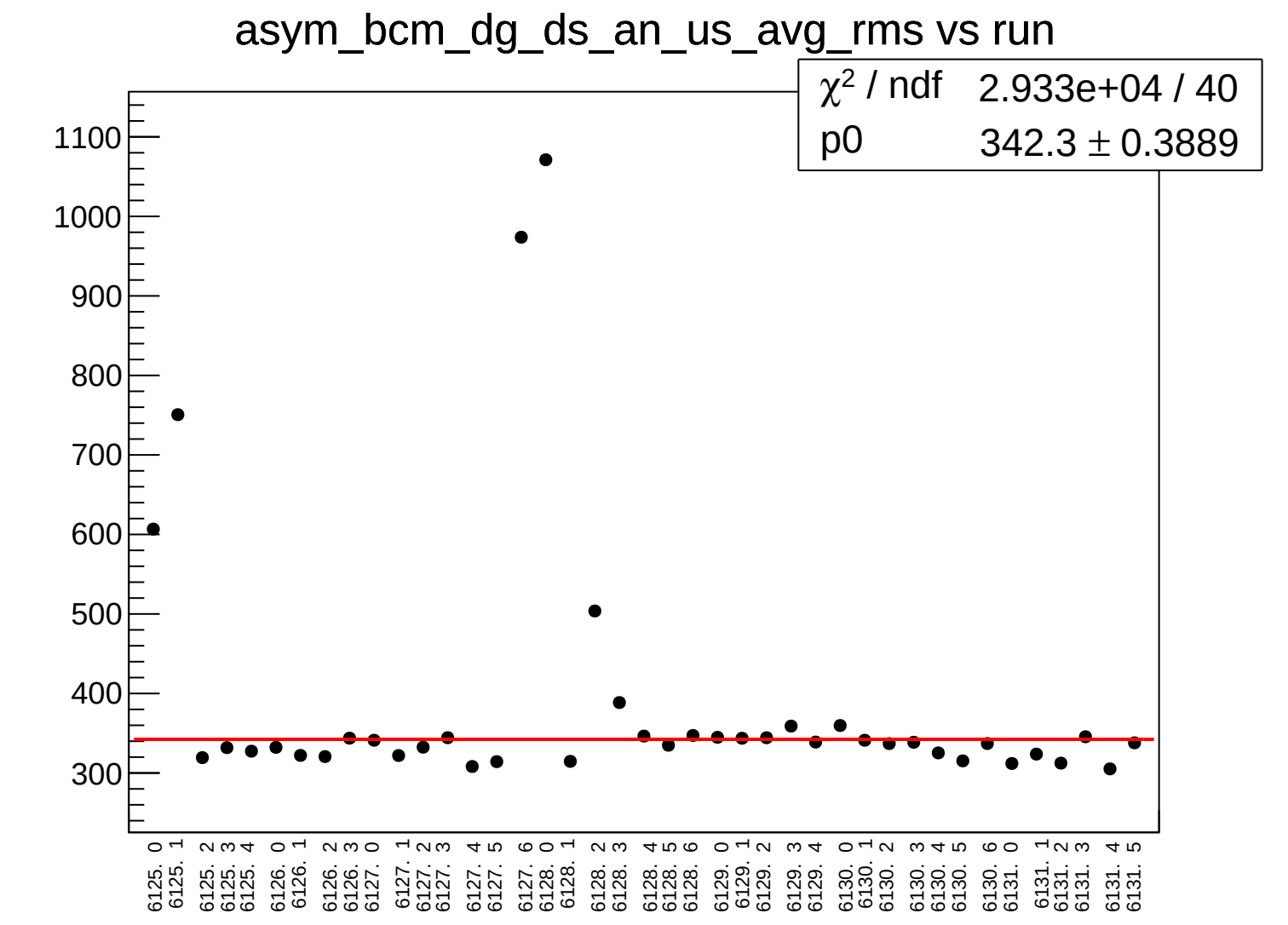

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 2.928e+04 / 40
p0 340.2 ± 0.3865
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

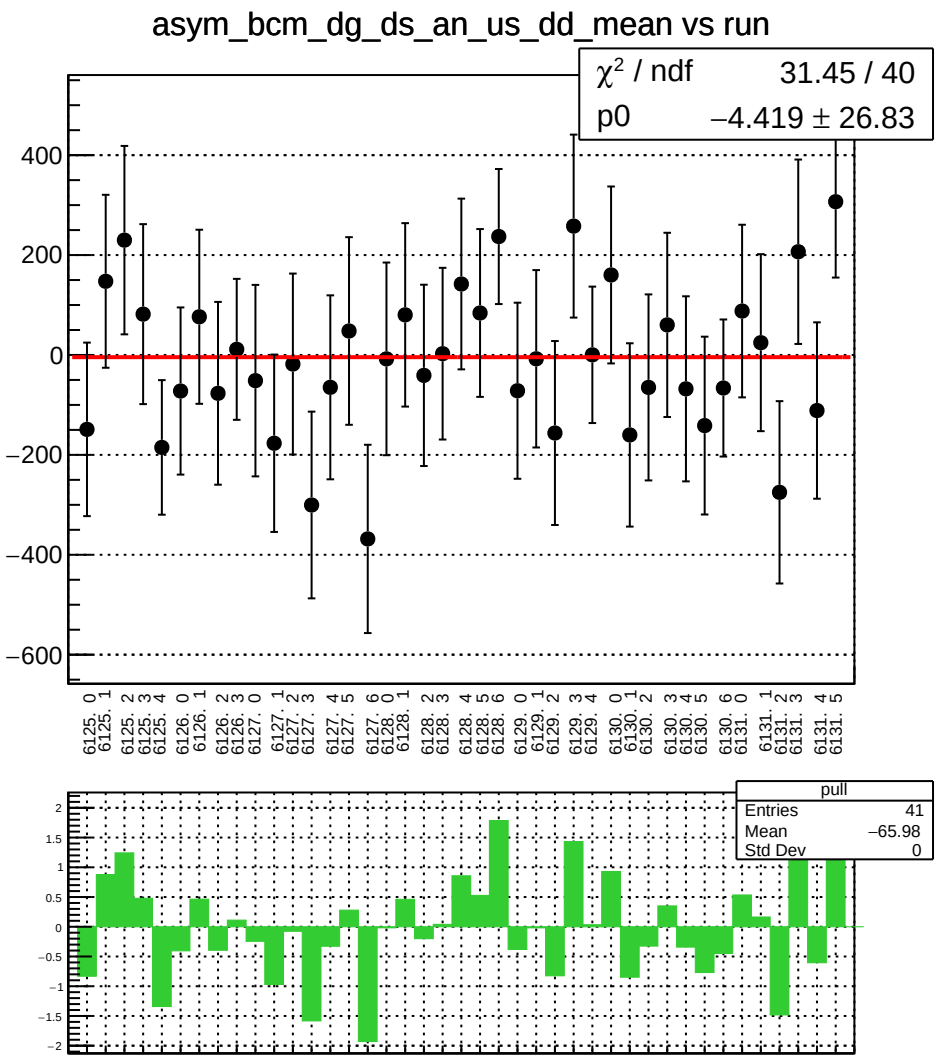

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 42.26 / 40
p0 5.094 ± 34.96
600
400
200
0
−200
−400
−600
−800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −124.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.01208
Std Dev 1.015
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

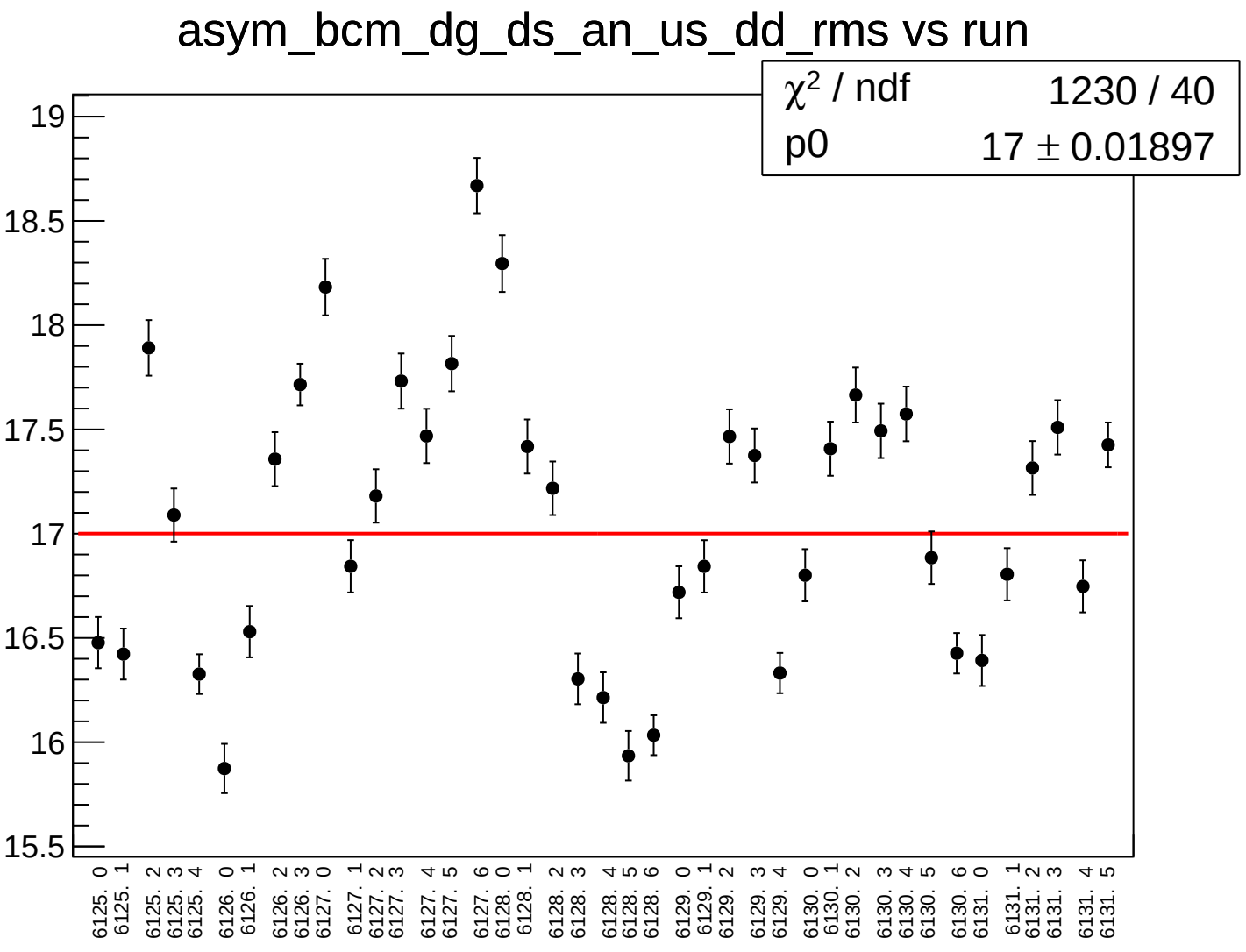

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 393.2 / 40
p0 22.16 ± 0.02472
23
22.5
22
21.5
21
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

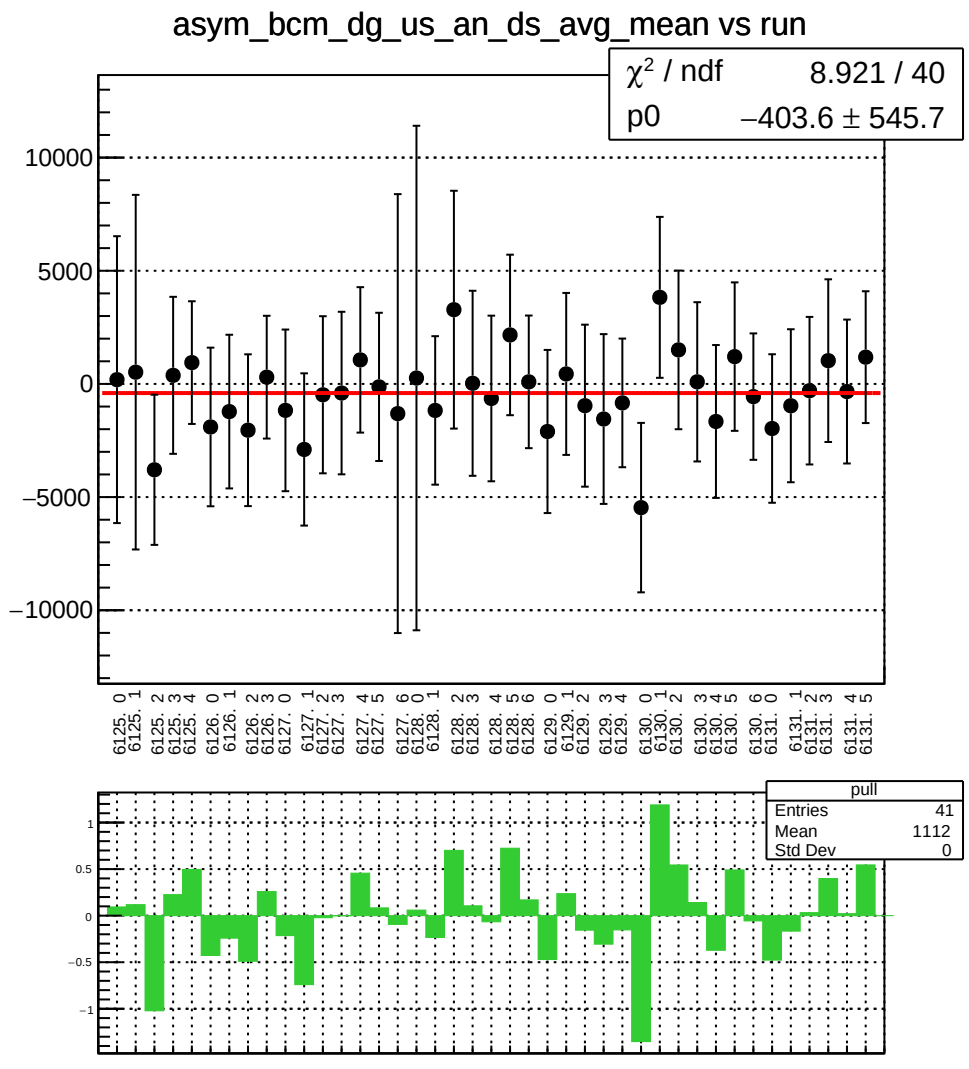

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 9.284 / 40
p0 −436.9 ± 550
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 272.4
Std Dev 0
1
0.5
0
−0.5
−1

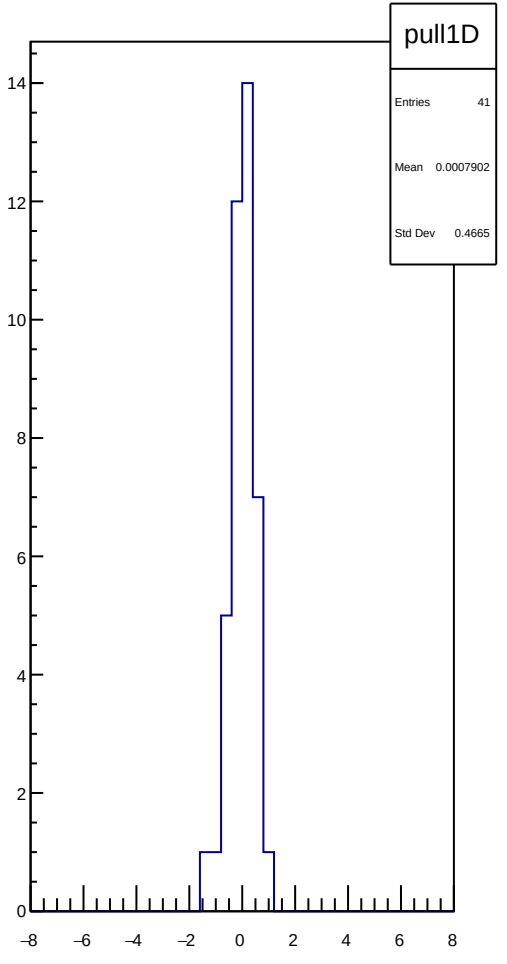

pull1D
Entries 41
Mean 0.003462
Std Dev 0.4758
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

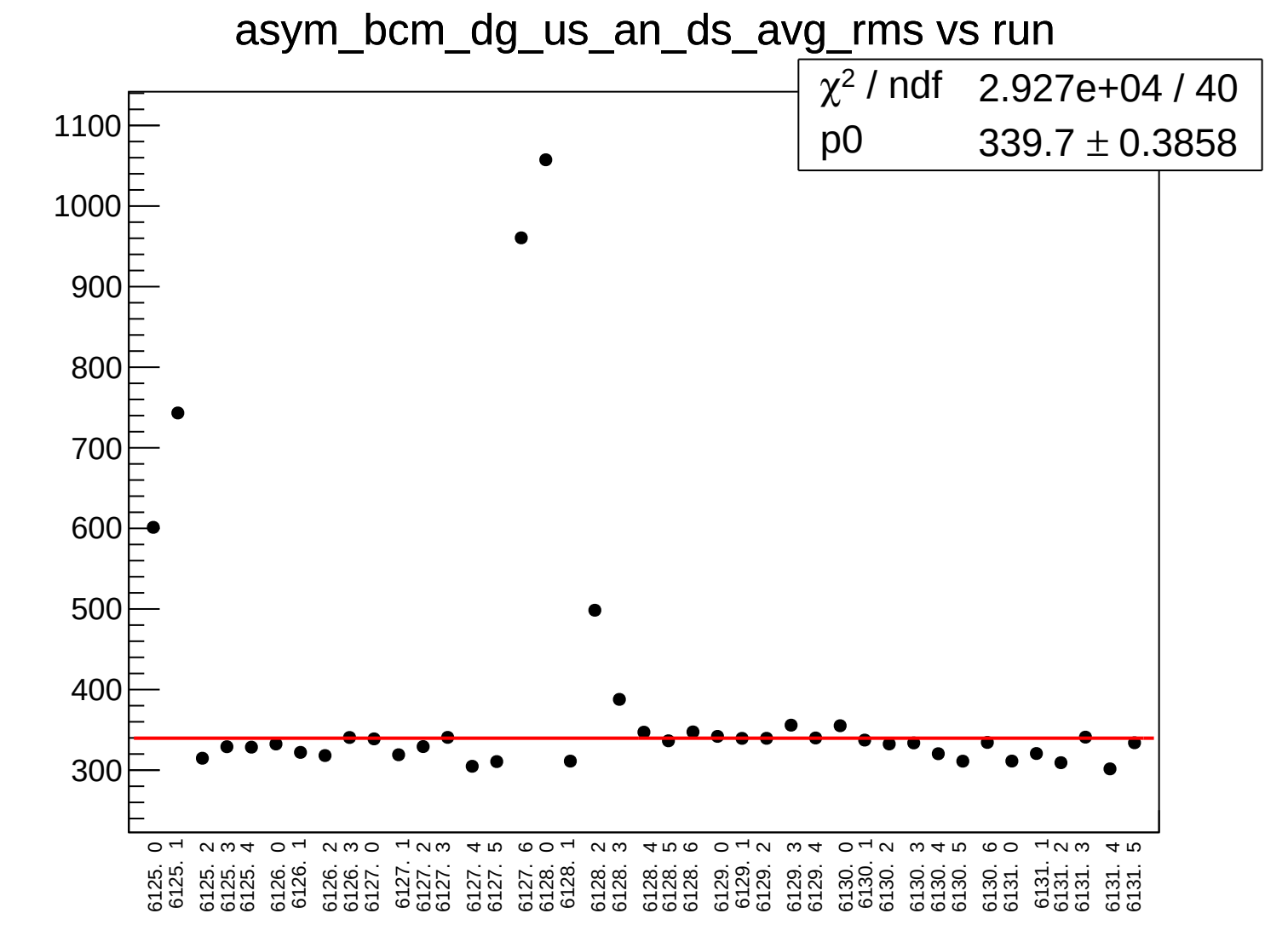

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 2.933e+04 / 40
p0 342.3 ± 0.3889
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

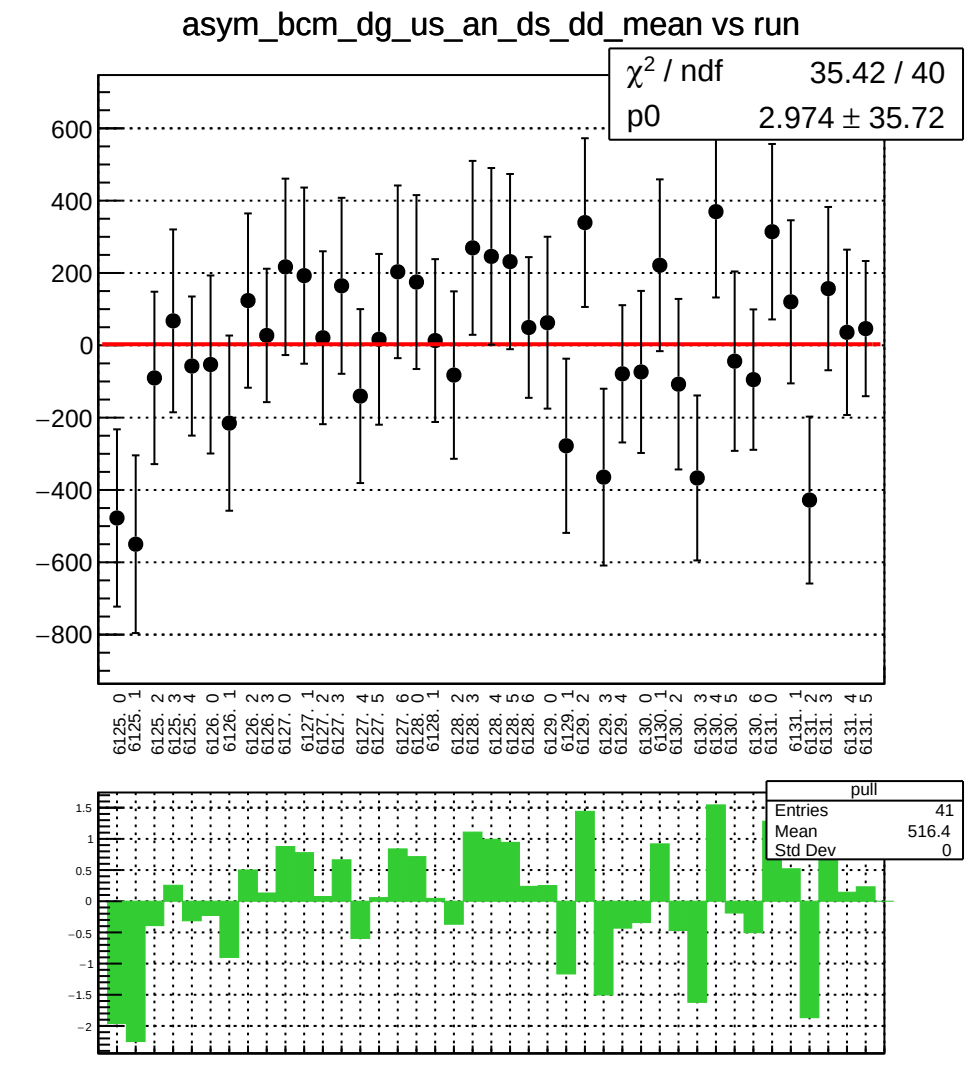

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 31.45 / 40
p0 −4.419 ± 26.83
400
200
0
−200
−400
−600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −65.98
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.0148
Std Dev 0.8757
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

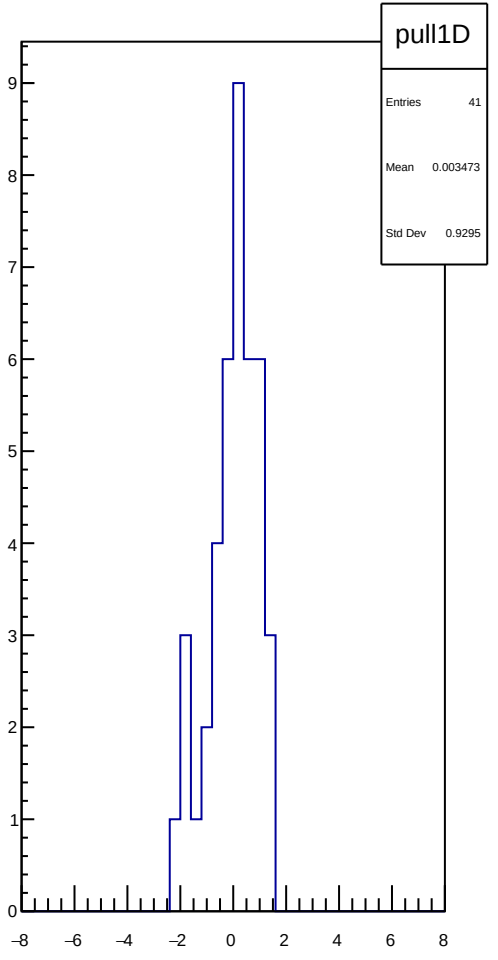

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 1230 / 40
p0 17 ± 0.01897
19
18.5
18
17.5
17
16.5
16
15.5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

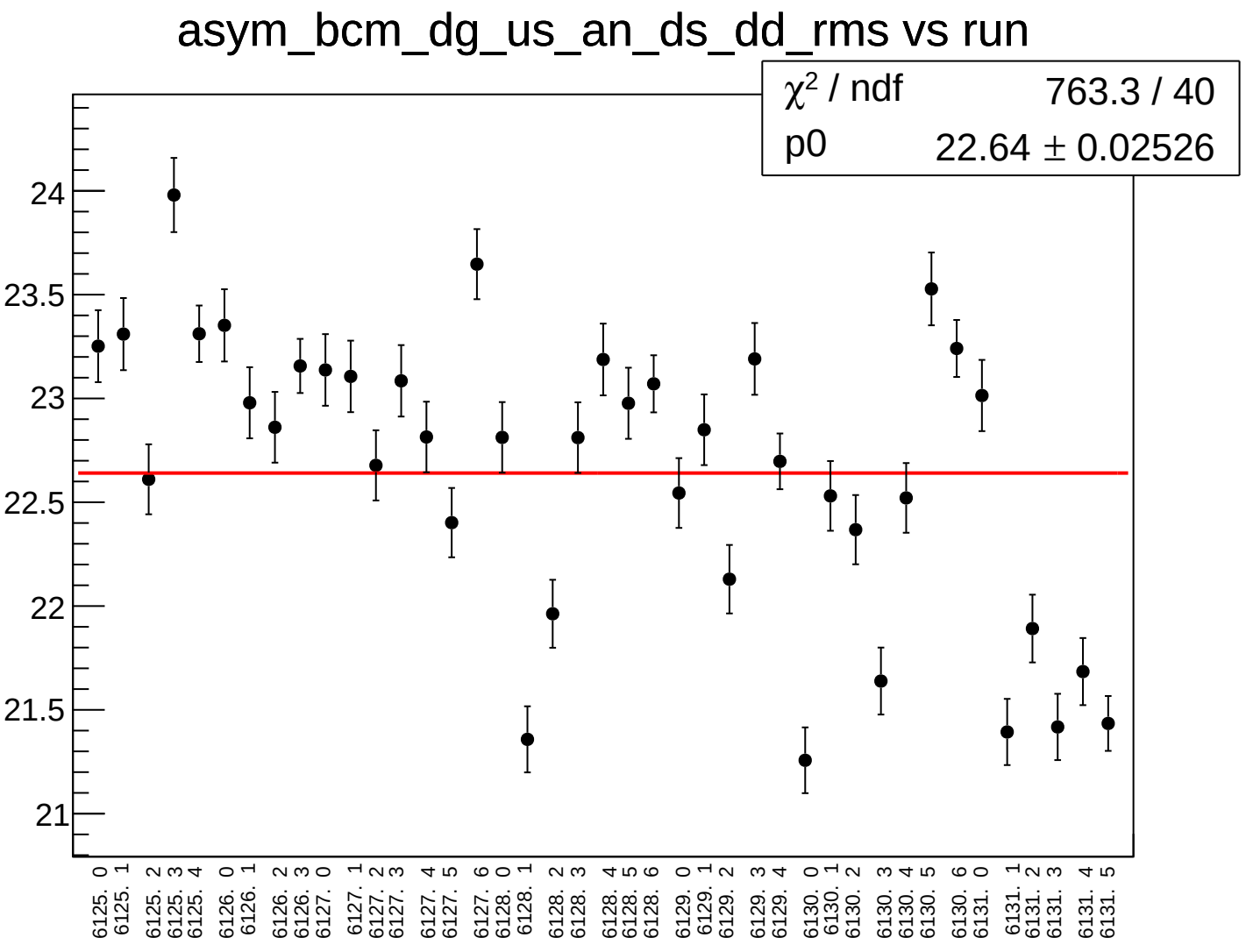

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 8.921 / 40
p0 −403.6 ± 545.7
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1112
Std Dev 0
1
0.5
0
−0.5
−1

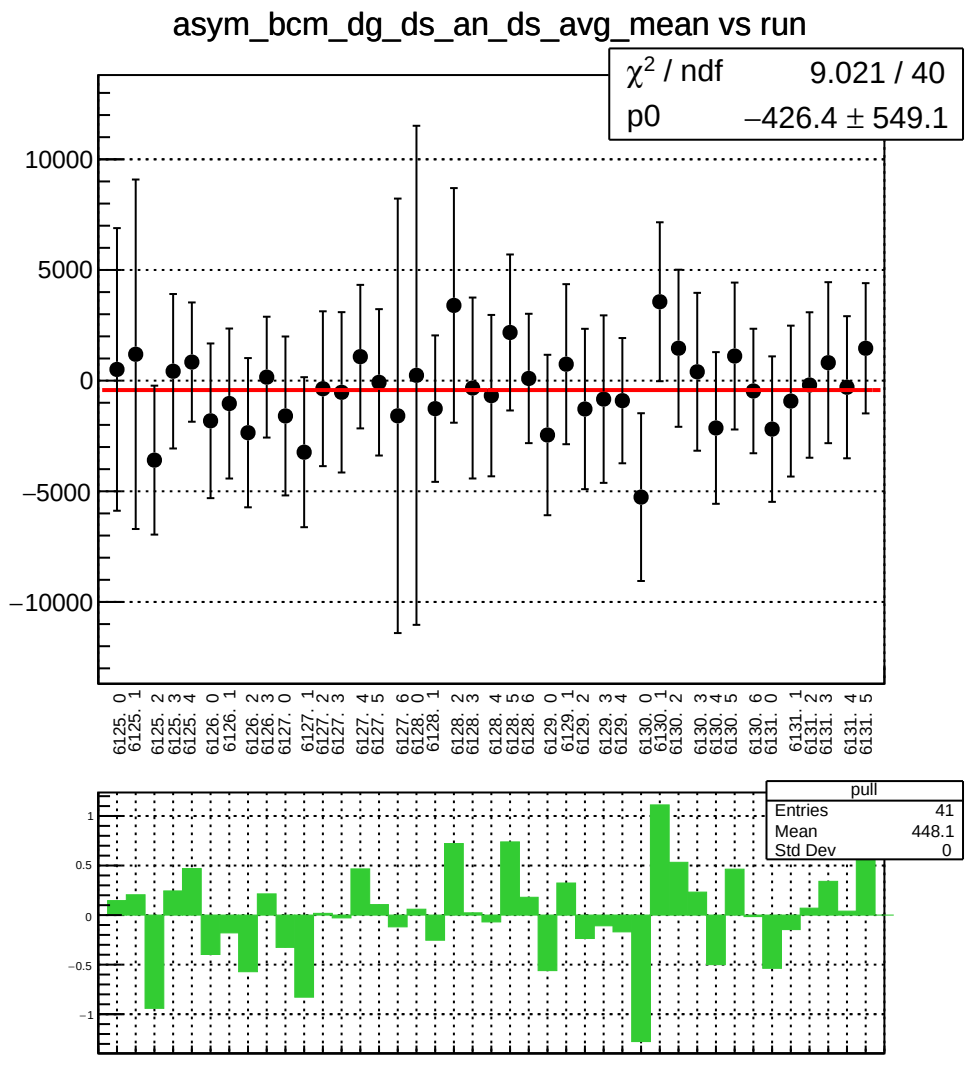

pull1D
Entries 41
Mean 0.0007902
Std Dev 0.4665
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

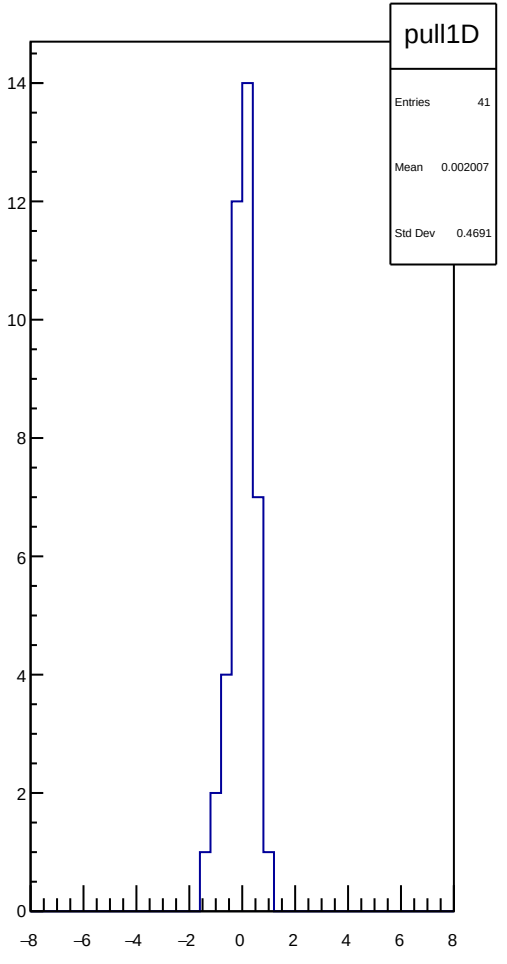

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 2.927e+04 / 40
p0 339.7 ± 0.3858
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

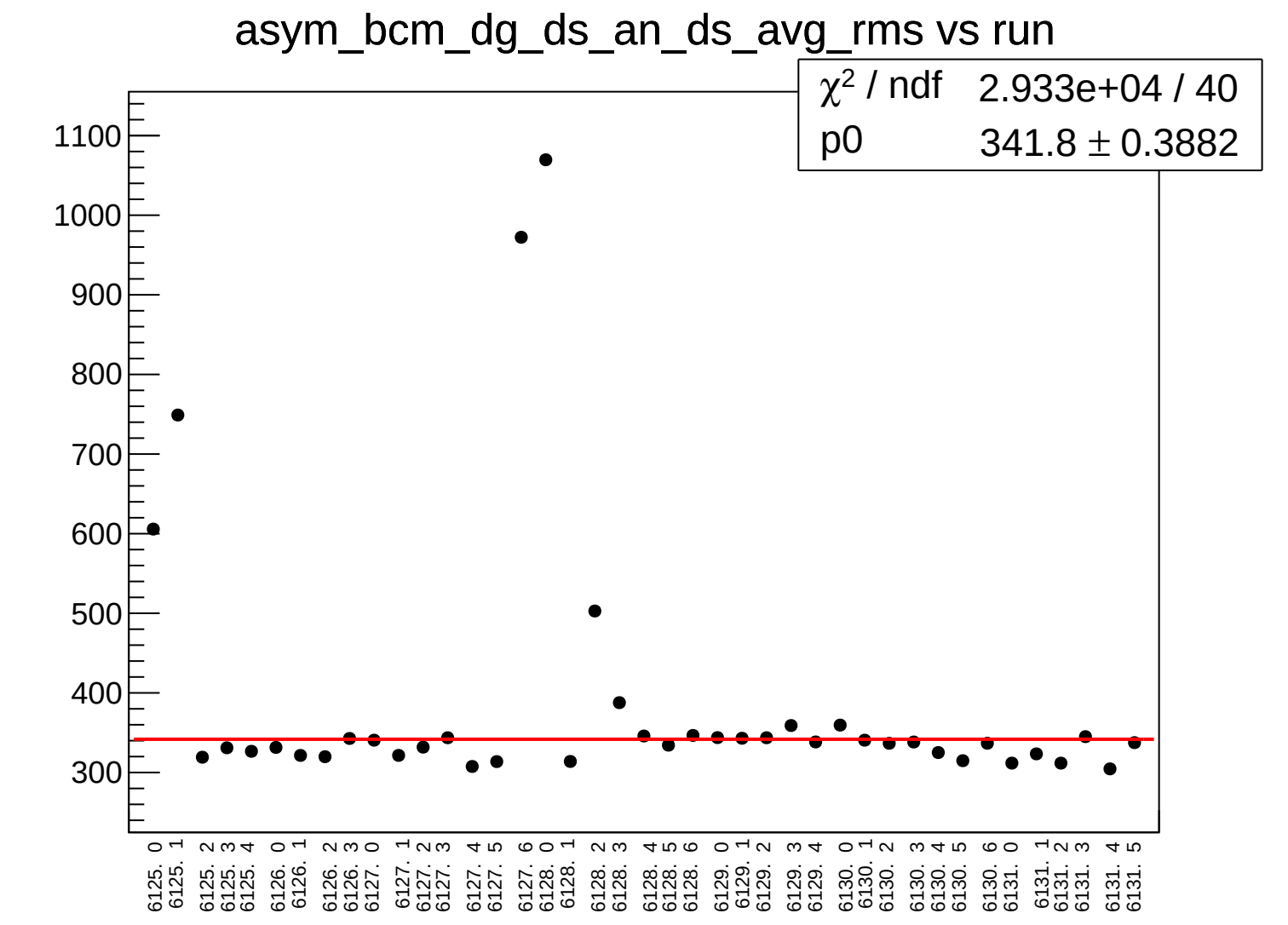

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 35.42 / 40
p0 2.974 ± 35.72
600
400
200
0
−200
−400
−600
−800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 516.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

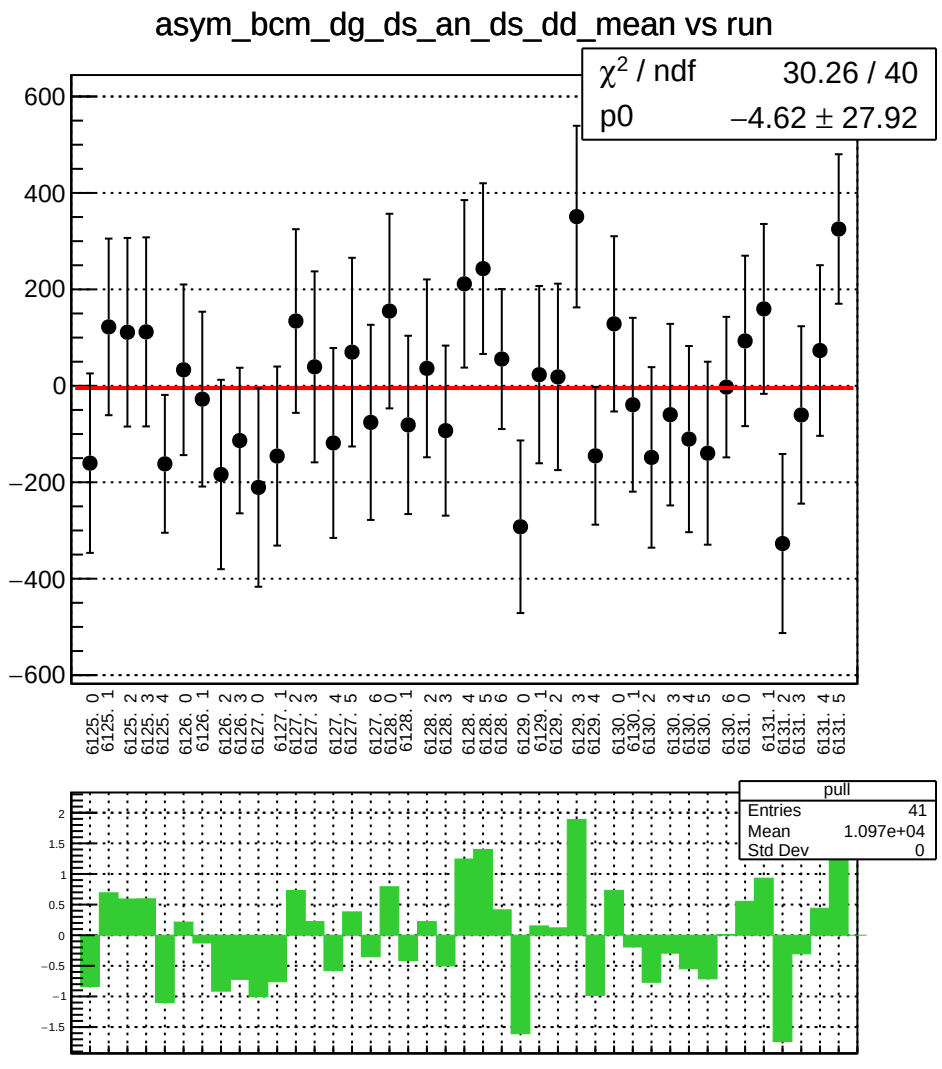

pull1D
Entries 41
Mean 0.003473
Std Dev 0.9295
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

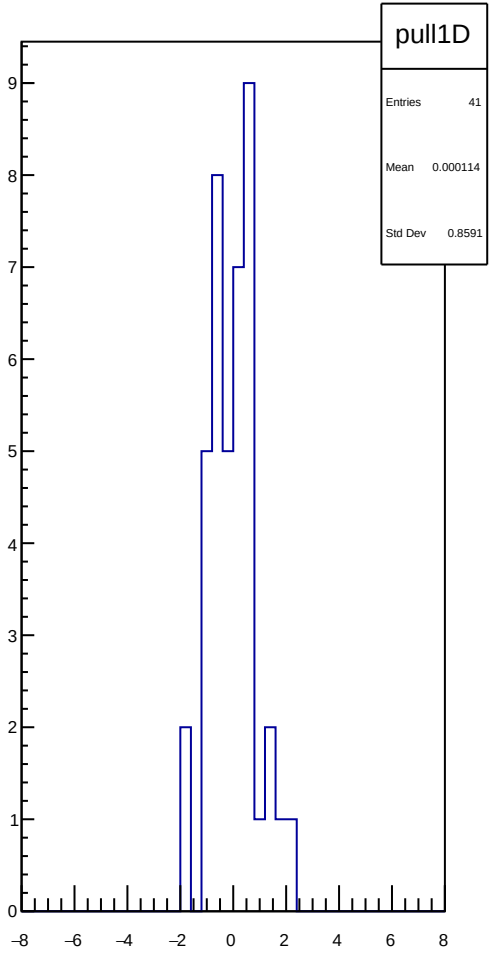

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 763.3 / 40
p0 22.64 ± 0.02526
24
23.5
23
22.5
22
21.5
21
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

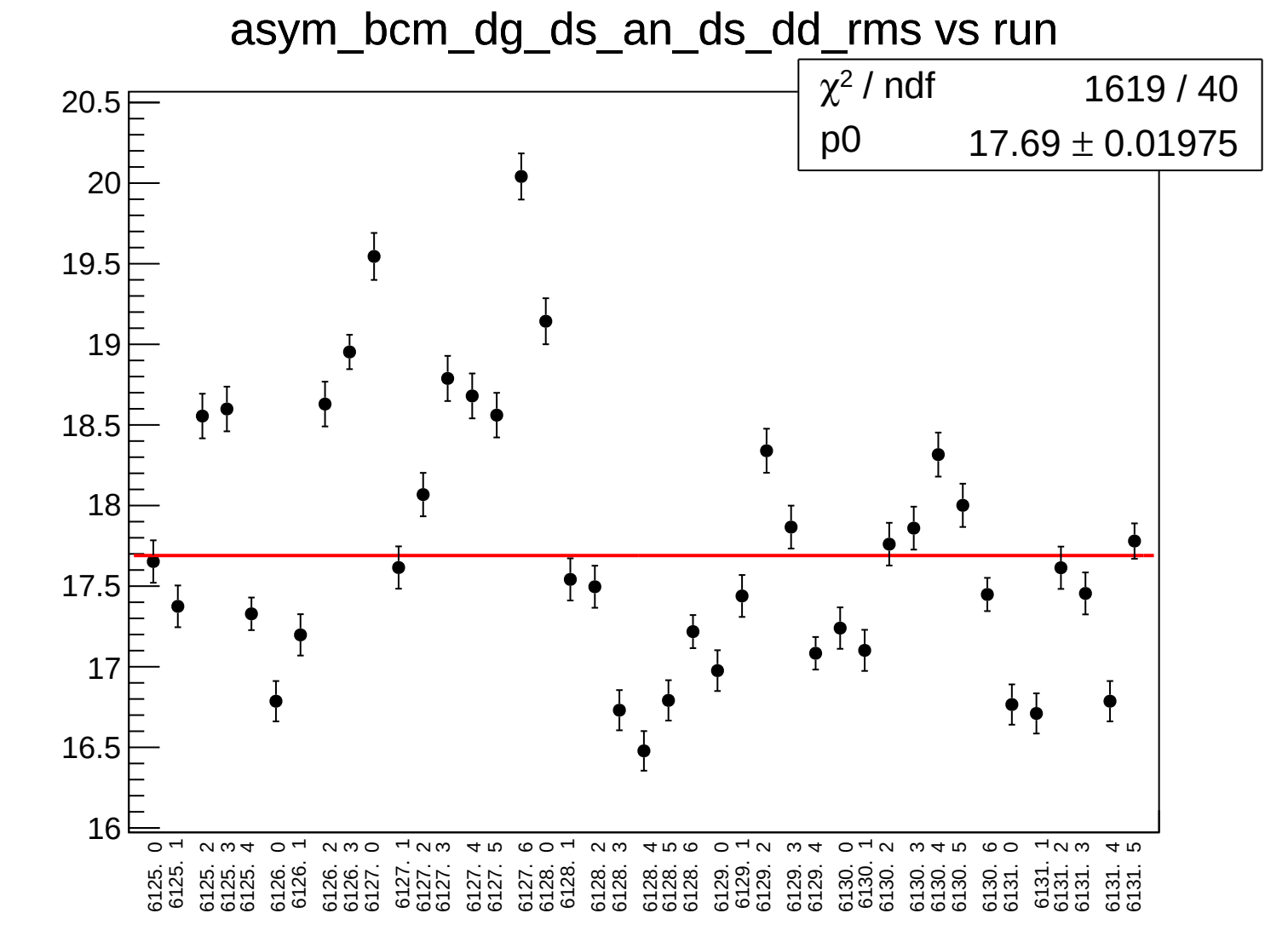

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 9.021 / 40
p0 −426.4 ± 549.1
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 448.1
Std Dev 0
1
0.5
0
−0.5
−1

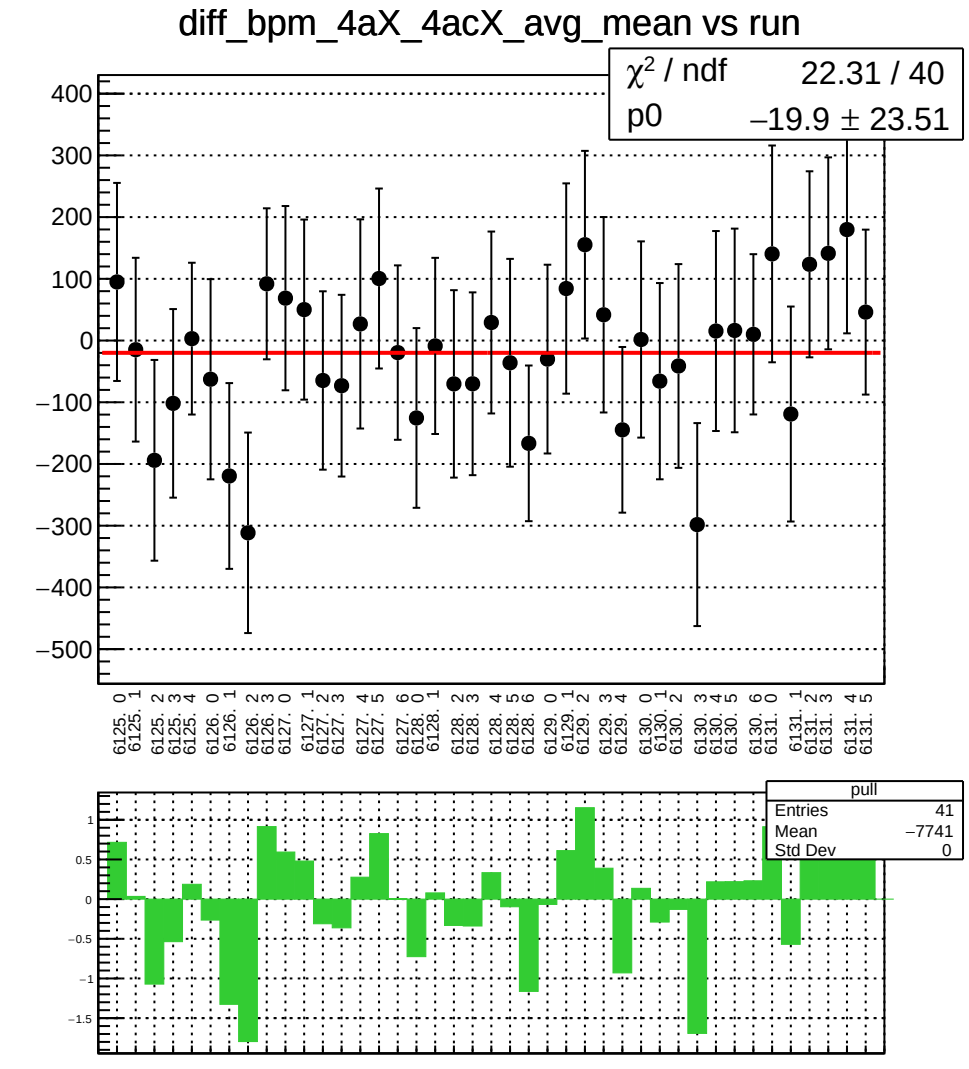

pull1D
Entries 41
Mean 0.002007
Std Dev 0.4691
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

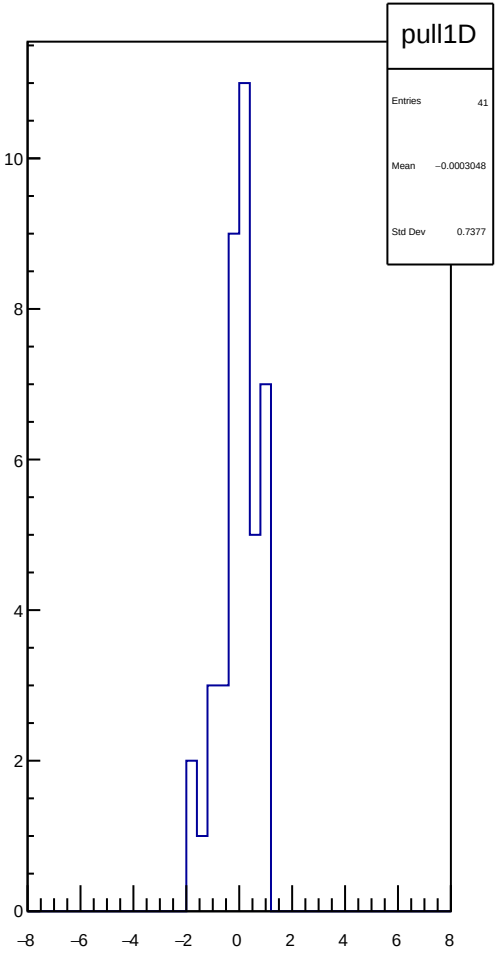

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 2.933e+04 / 40
p0 341.8 ± 0.3882
1100
1000
900
800
700
600
500
400
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

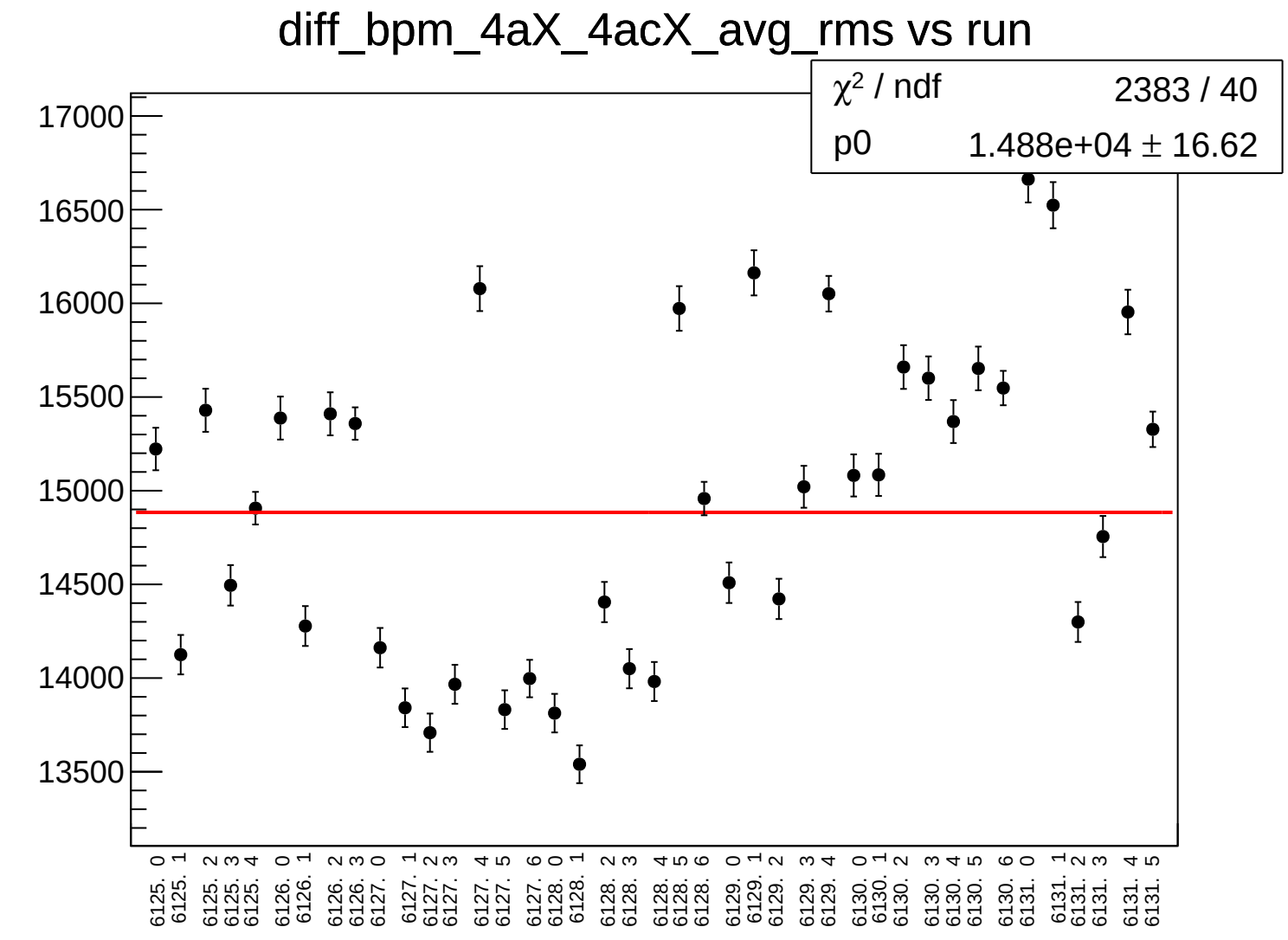

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 30.26 / 40
p0 −4.62 ± 27.92
600
400
200
0
−200
−400
−600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1.097e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

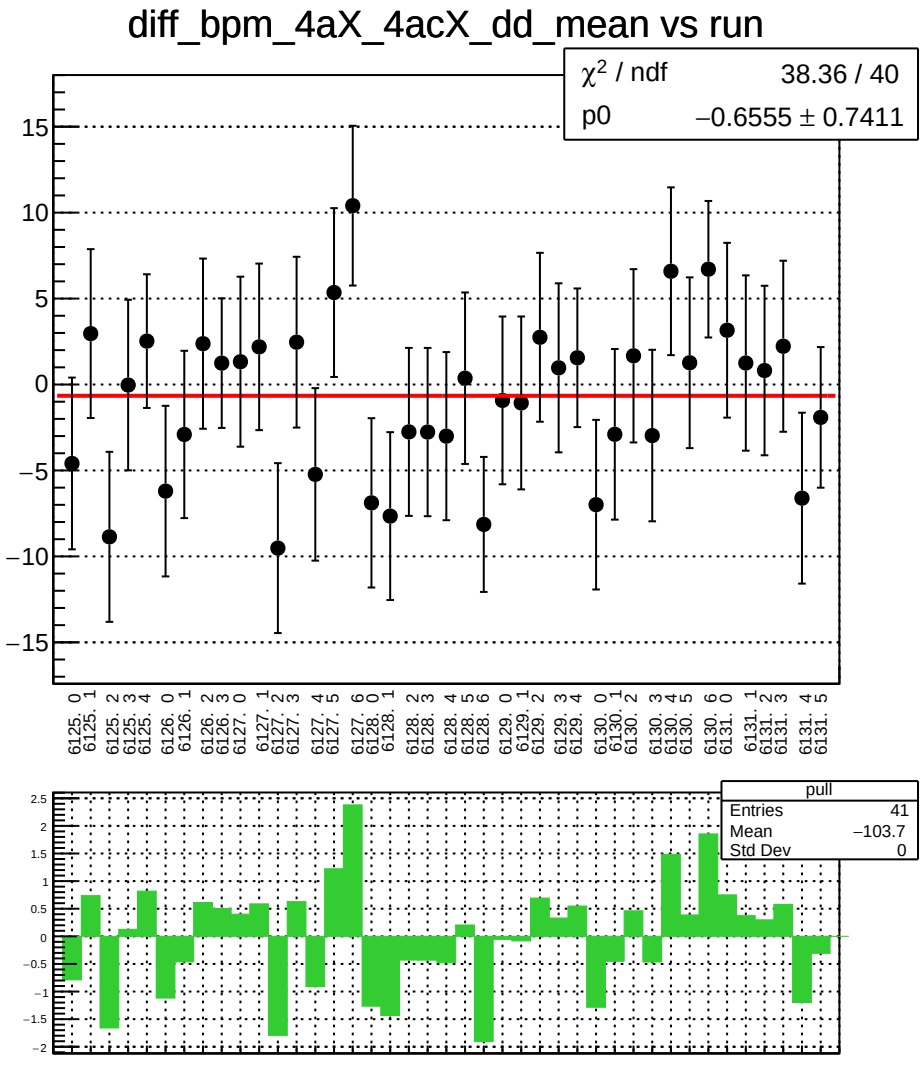

pull1D
Entries 41
Mean 0.000114
Std Dev 0.8591
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

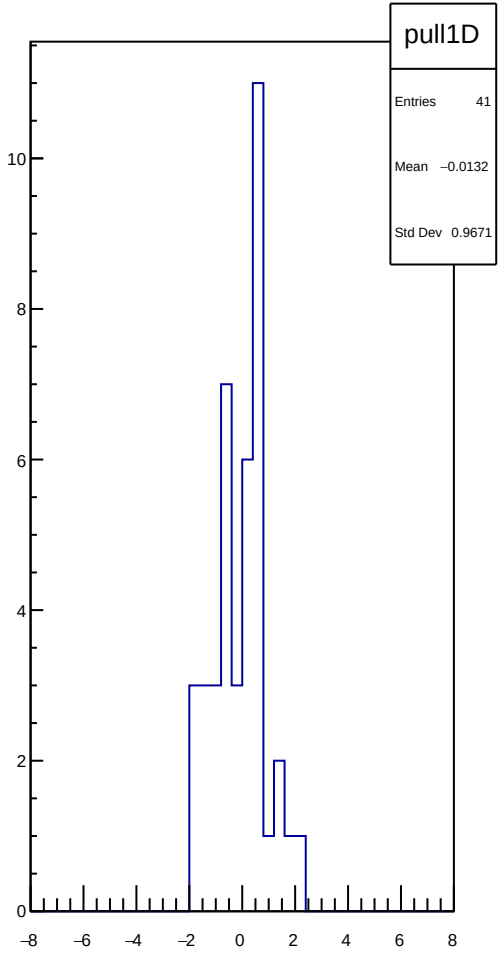

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 1619 / 40
p0 17.69 ± 0.01975
20.5
20
19.5
19
18.5
18
17.5
17
16.5
16
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

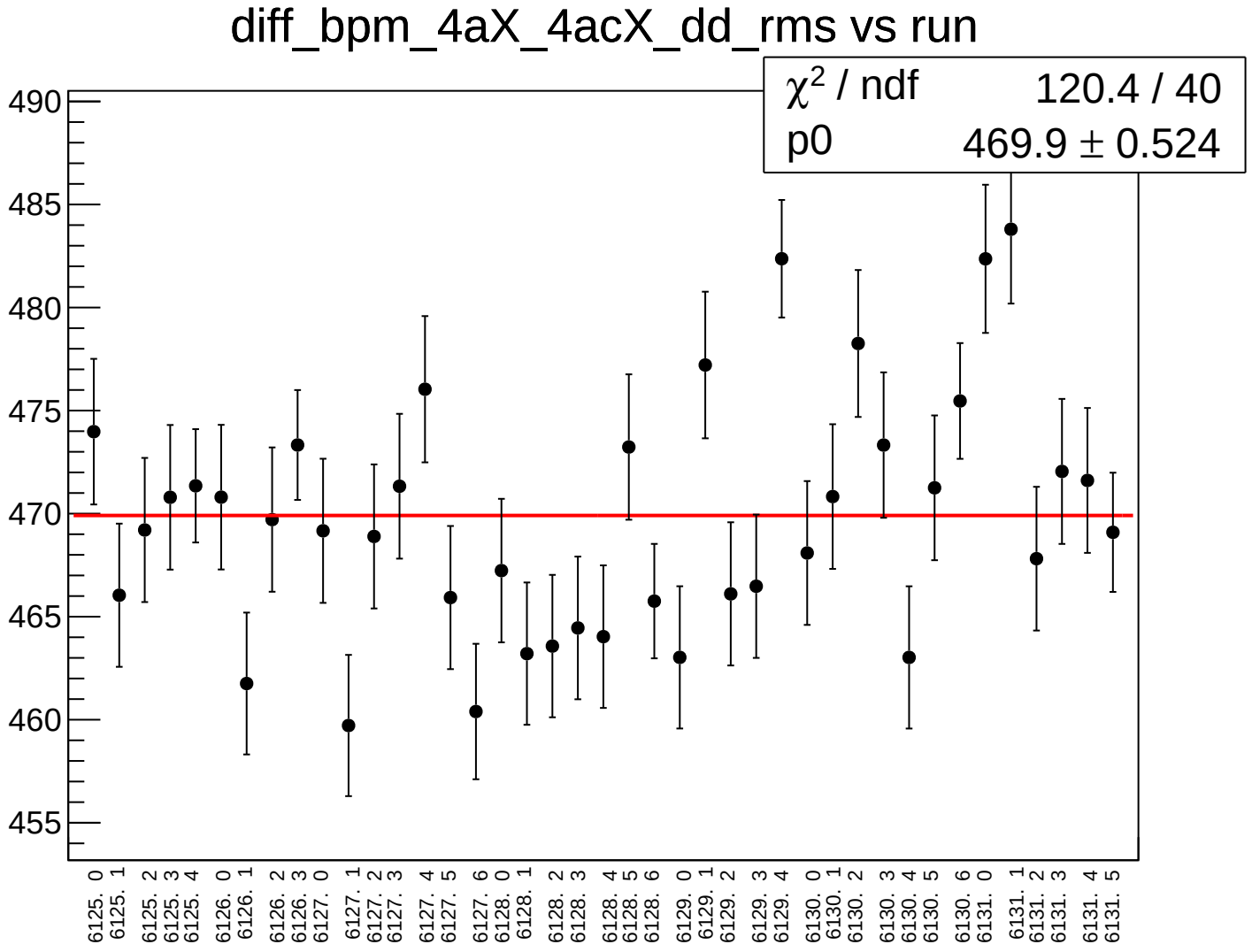

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 22.31 / 40
p0 −19.9 ± 23.51
pull
Entries 41
Mean −7741
Std Dev 0

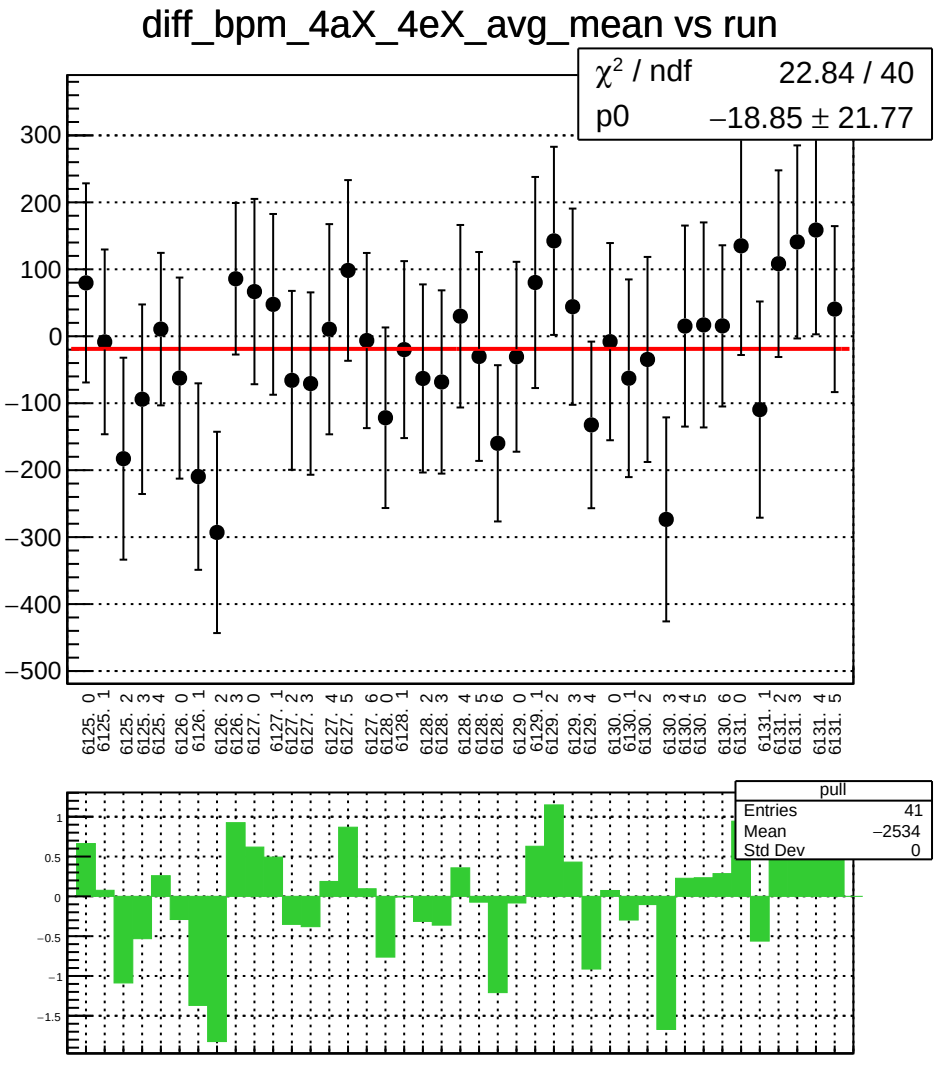

pull1D
Entries 41
Mean −0.0003048
Std Dev 0.7377

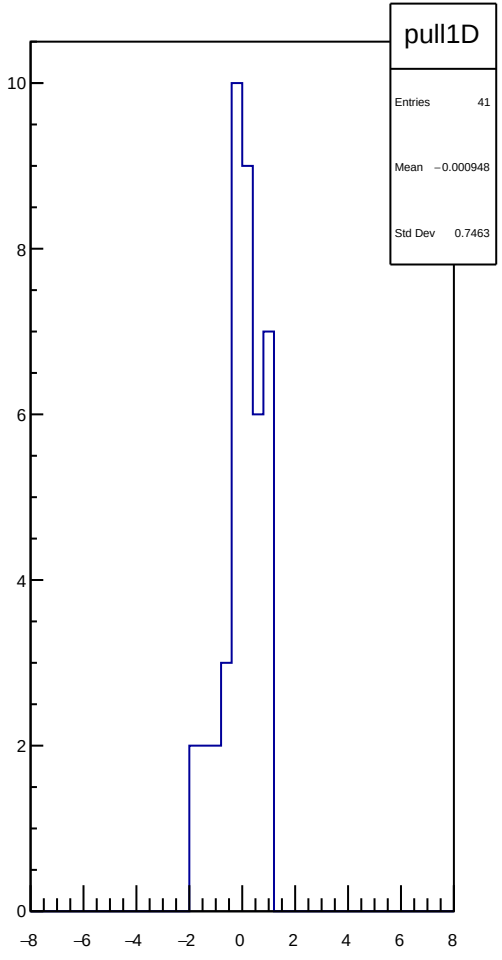

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 2383 / 40
p0 1.488e+04 ± 16.62
17000
16500
16000
15500
15000
14500
14000
13500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

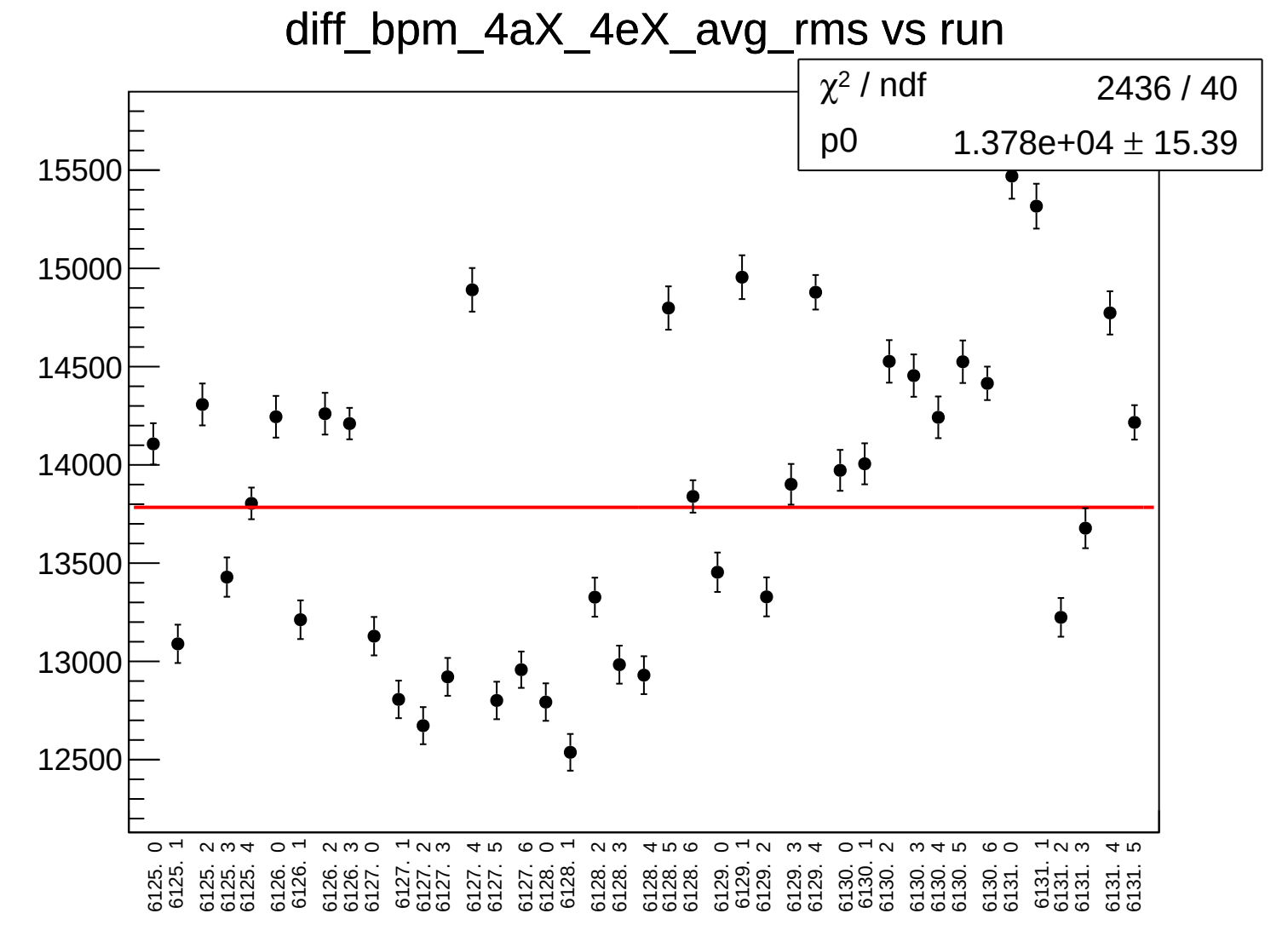

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 38.36 / 40
p0 −0.6555 ± 0.7411
pull
Entries 41
Mean −103.7
Std Dev 0

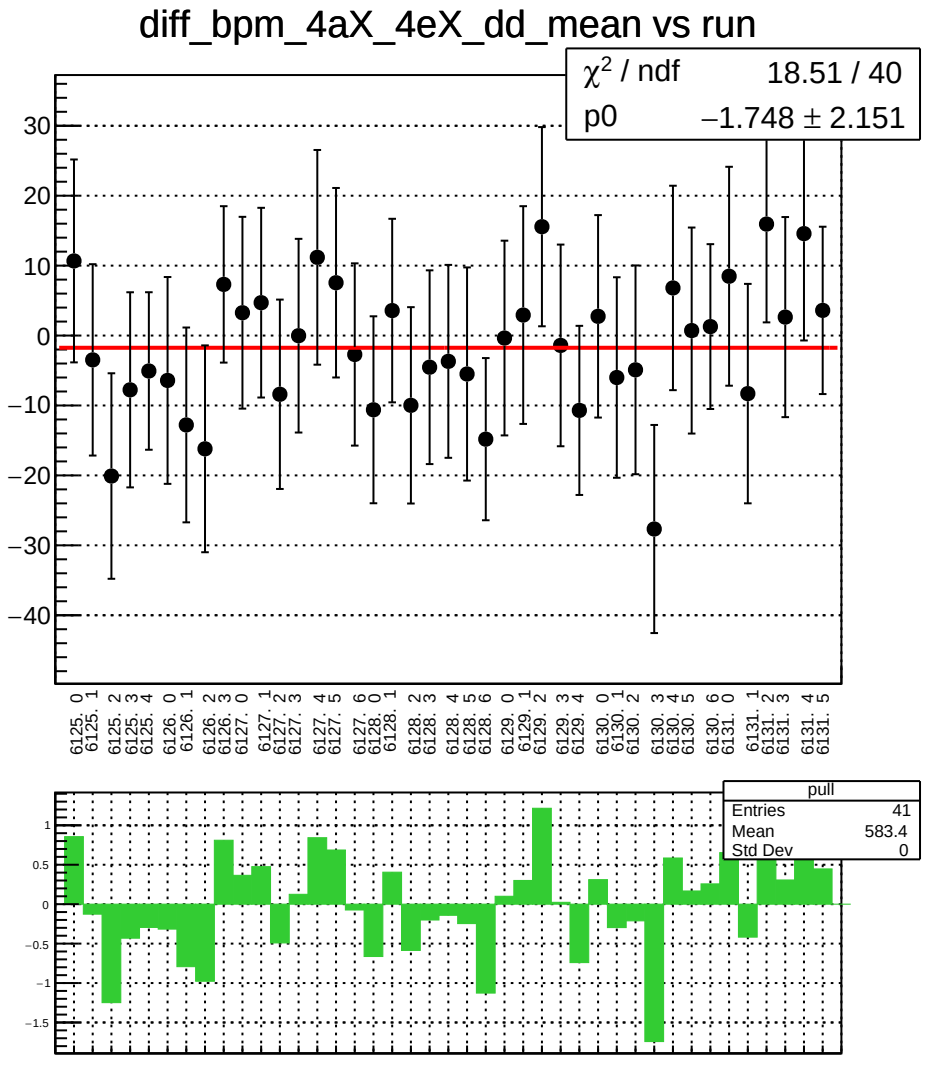

pull1D
Entries 41
Mean −0.0132
Std Dev 0.9671

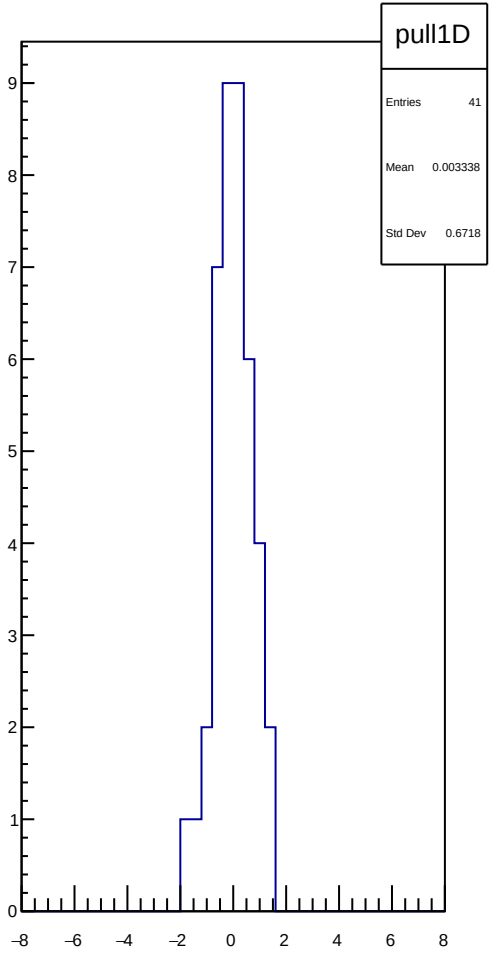

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 120.4 / 40
p0 469.9 ± 0.524
490
485
480
475
470
465
460
455
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

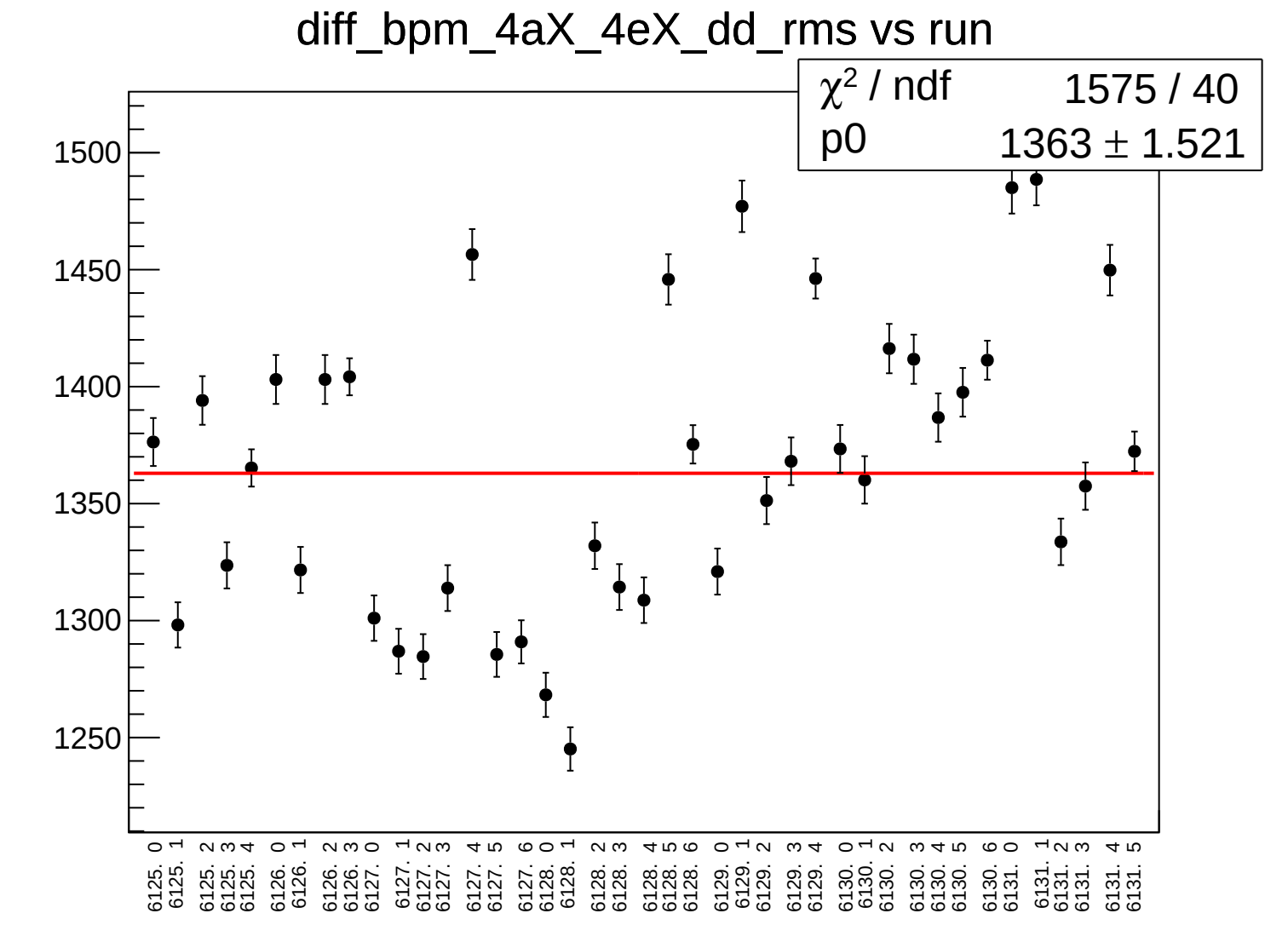

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 22.84 / 40
p0 −18.85 ± 21.77
300
200
100
0
−100
−200
−300
−400
−500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −2534
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

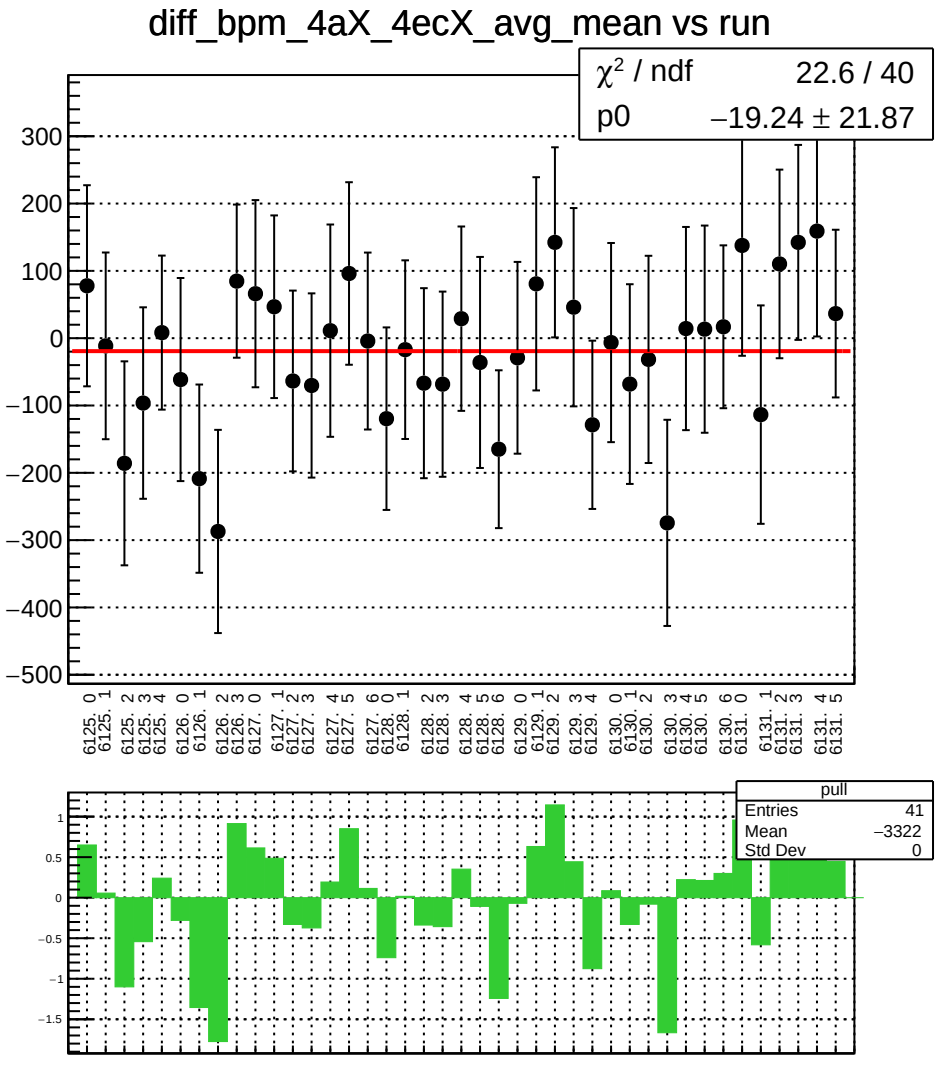

pull1D
Entries 41
Mean −0.000948
Std Dev 0.7463
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

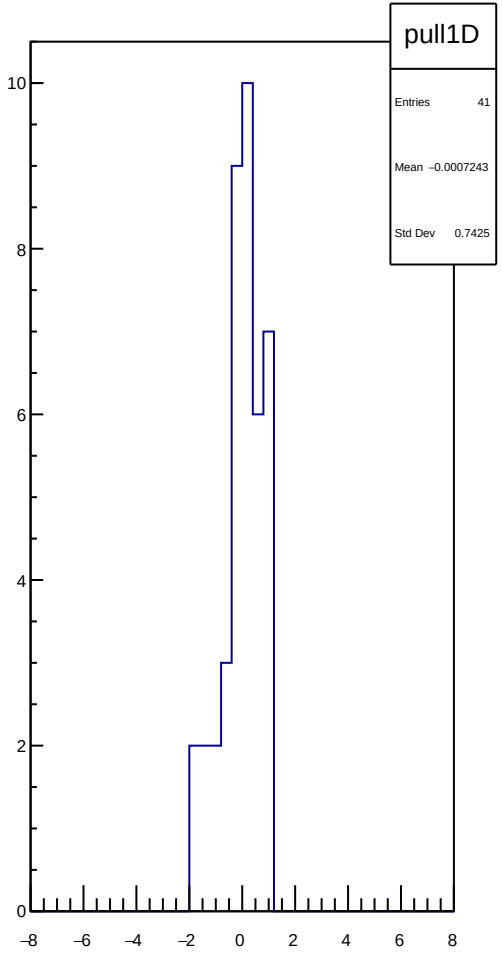

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 2436 / 40
p0 1.378e+04 ± 15.39
15500
15000
14500
14000
13500
13000
12500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

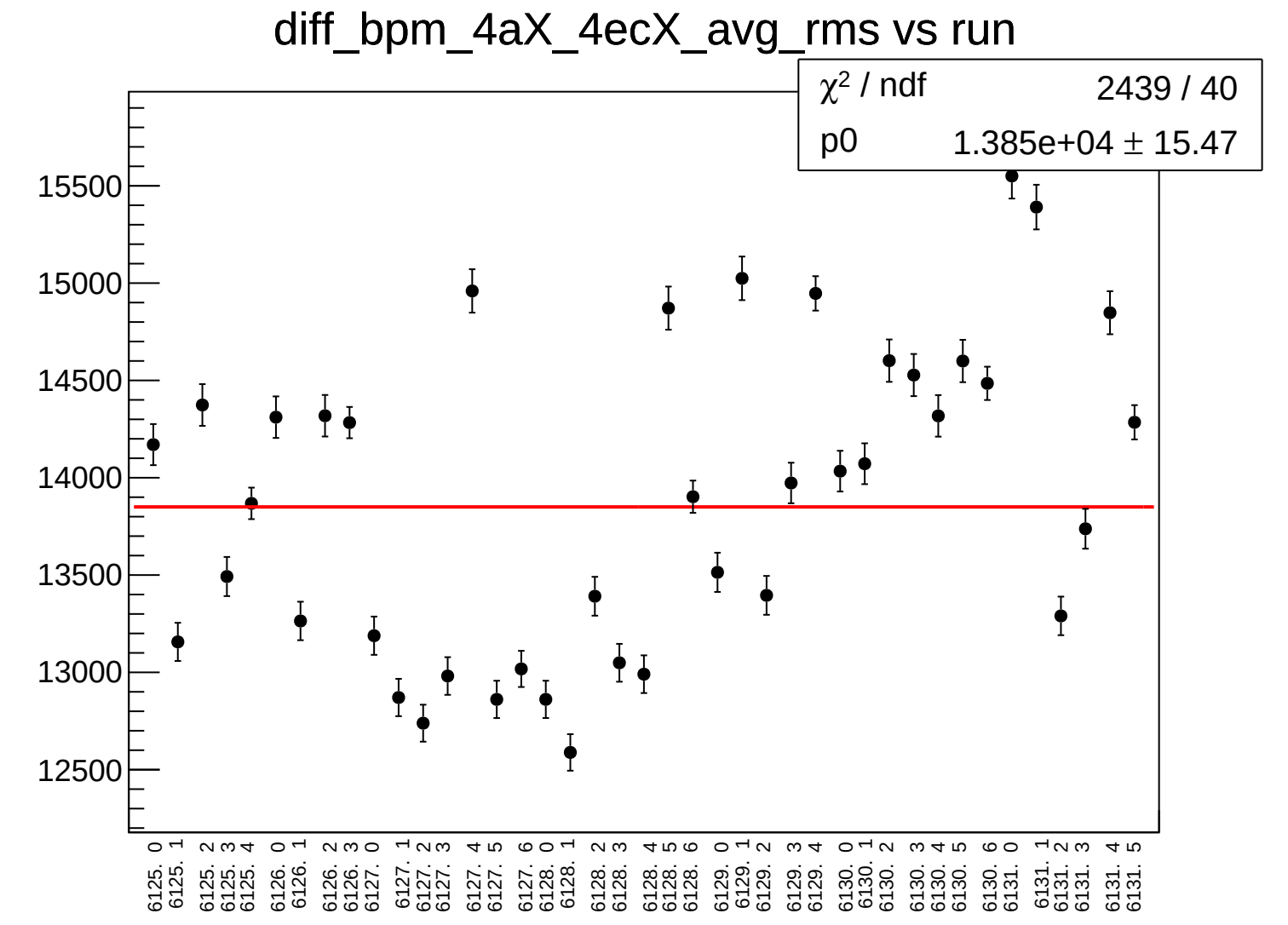

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 18.51 / 40
p0 −1.748 ± 2.151
30
20
10
0
−10
−20
−30
−40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 583.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

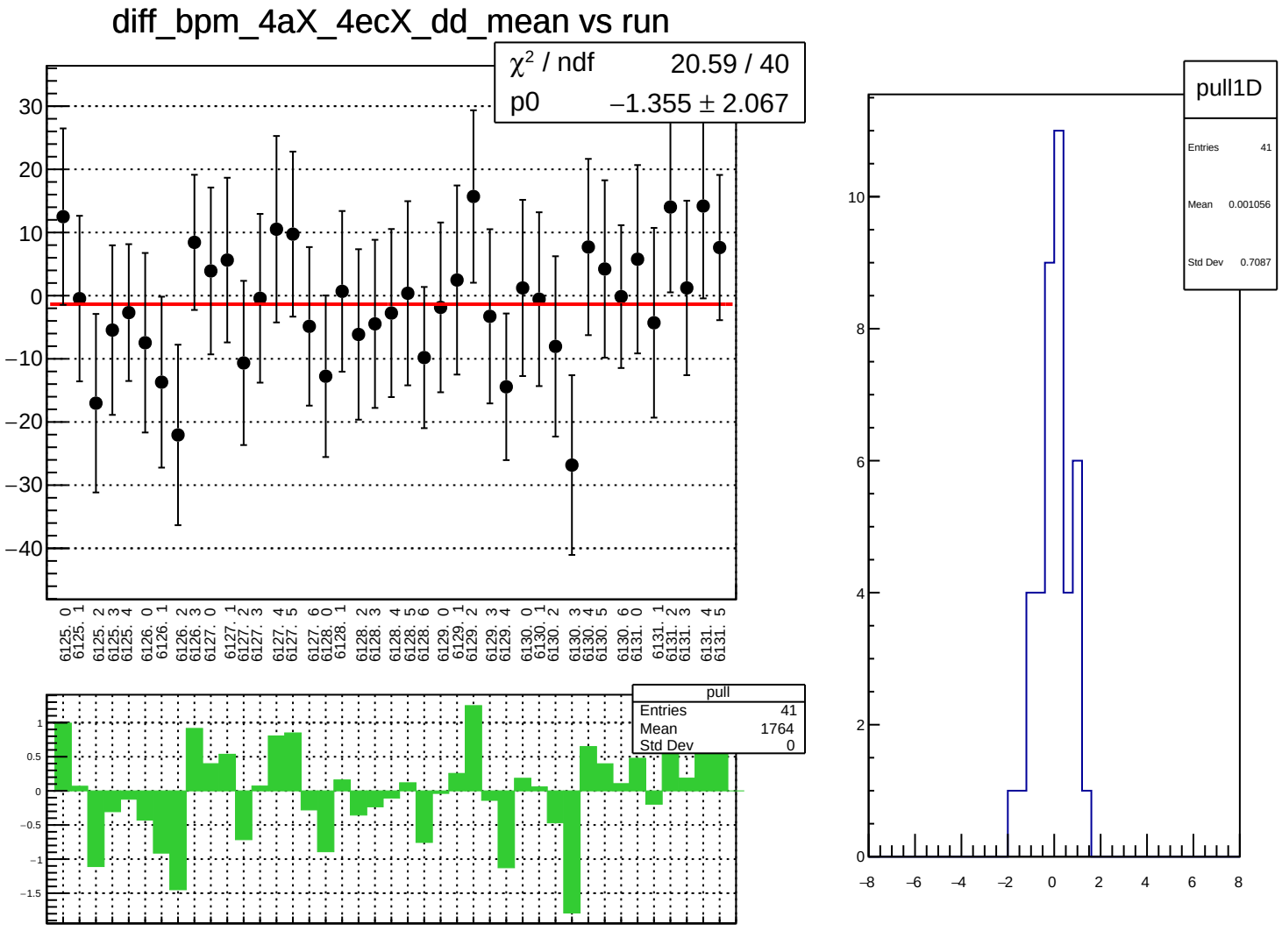

pull1D
Entries 41
Mean 0.003338
Std Dev 0.6718
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

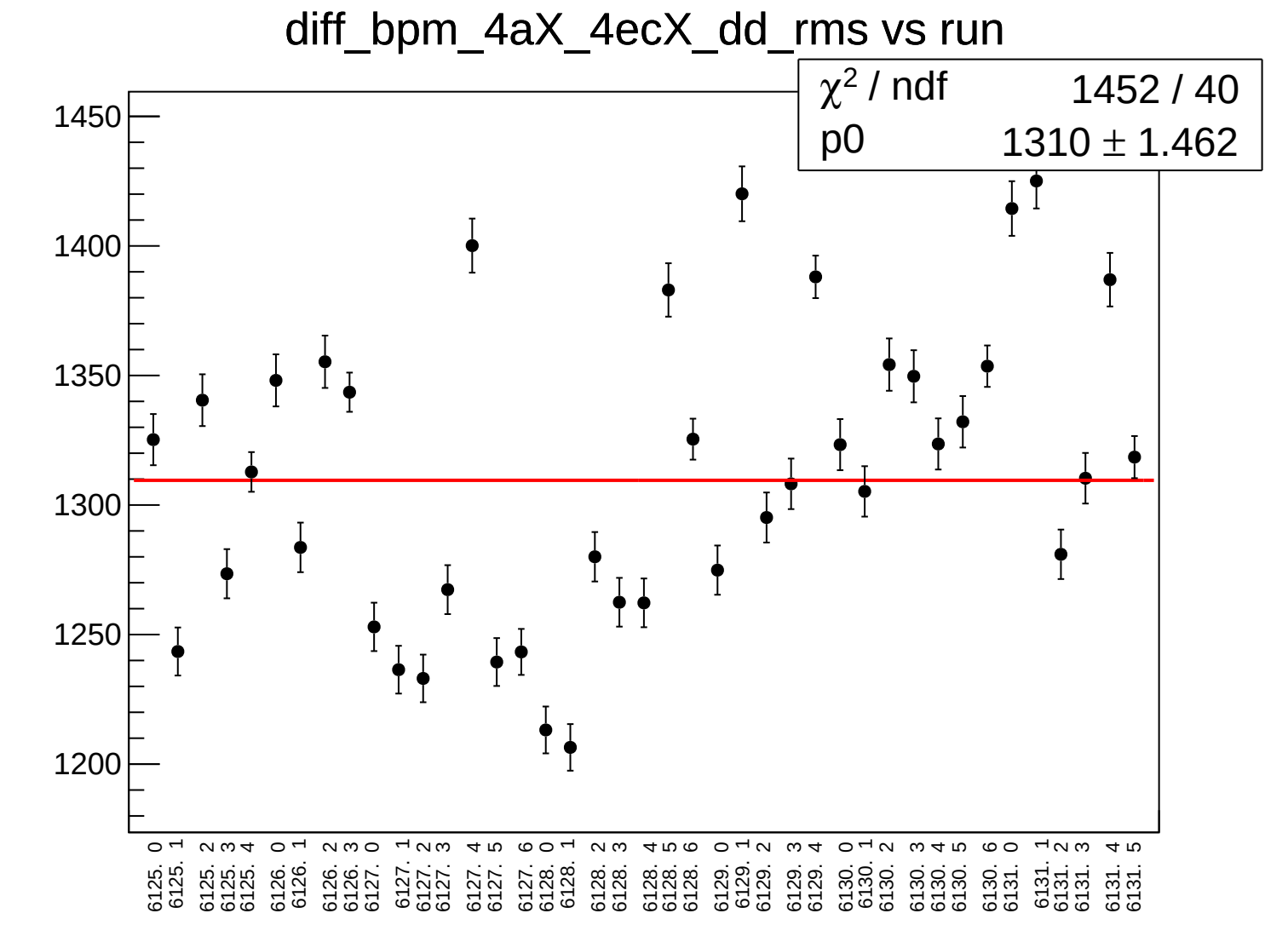

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 1575 / 40
p0 1363 ± 1.521
1500
1450
1400
1350
1300
1250
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

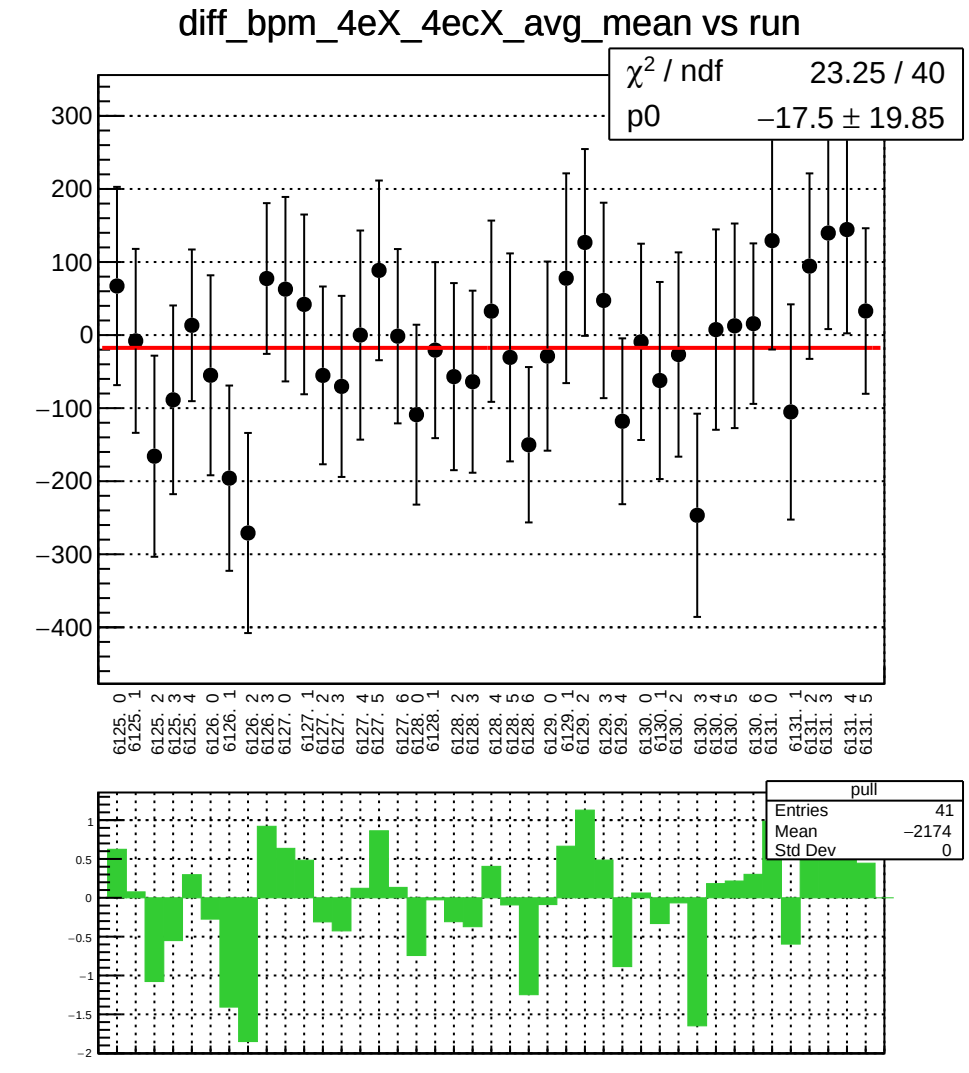

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 22.6 / 40
p0 −19.24 ± 21.87
300
200
100
0
−100
−200
−300
−400
−500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −3322
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

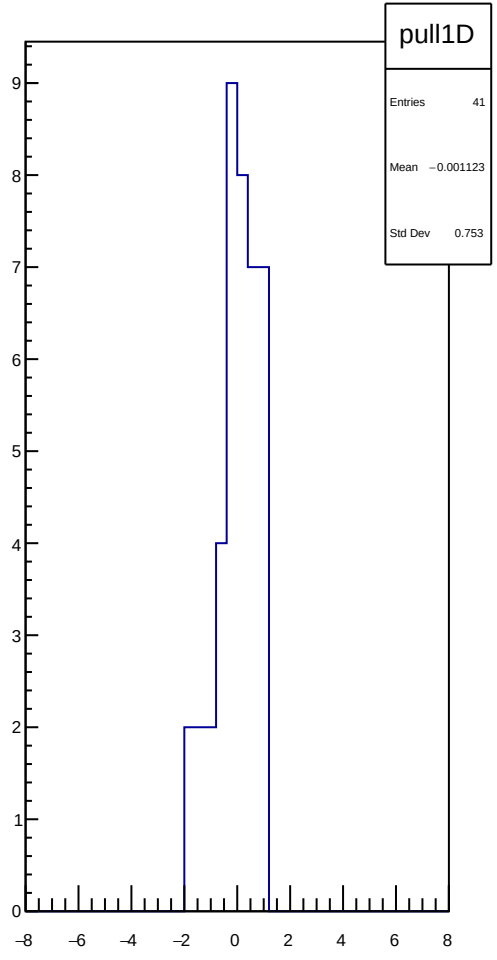

pull1D
Entries 41
Mean −0.0007243
Std Dev 0.7425
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

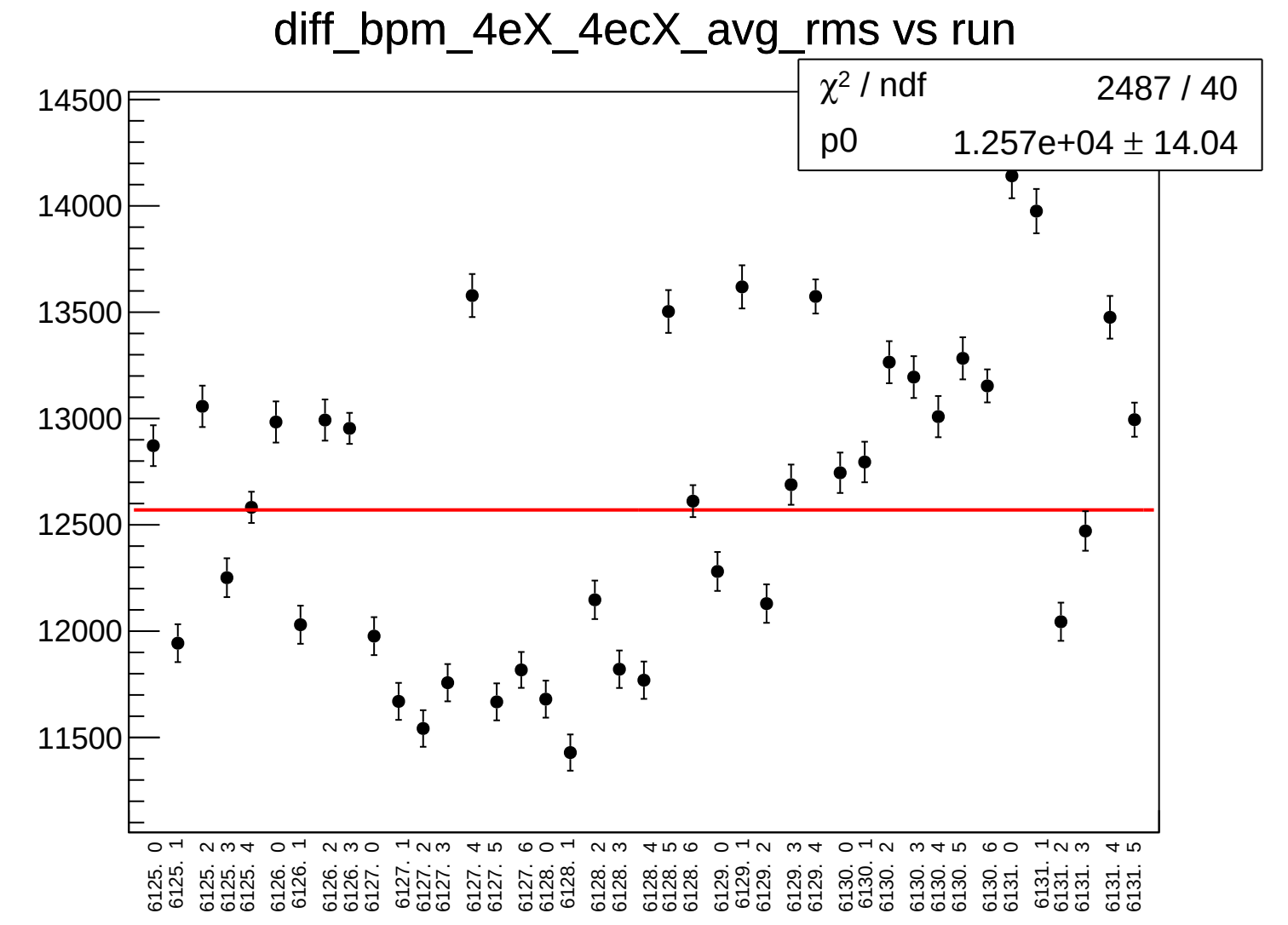

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 2439 / 40
p0 1.385e+04 ± 15.47
15500
15000
14500
14000
13500
13000
12500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

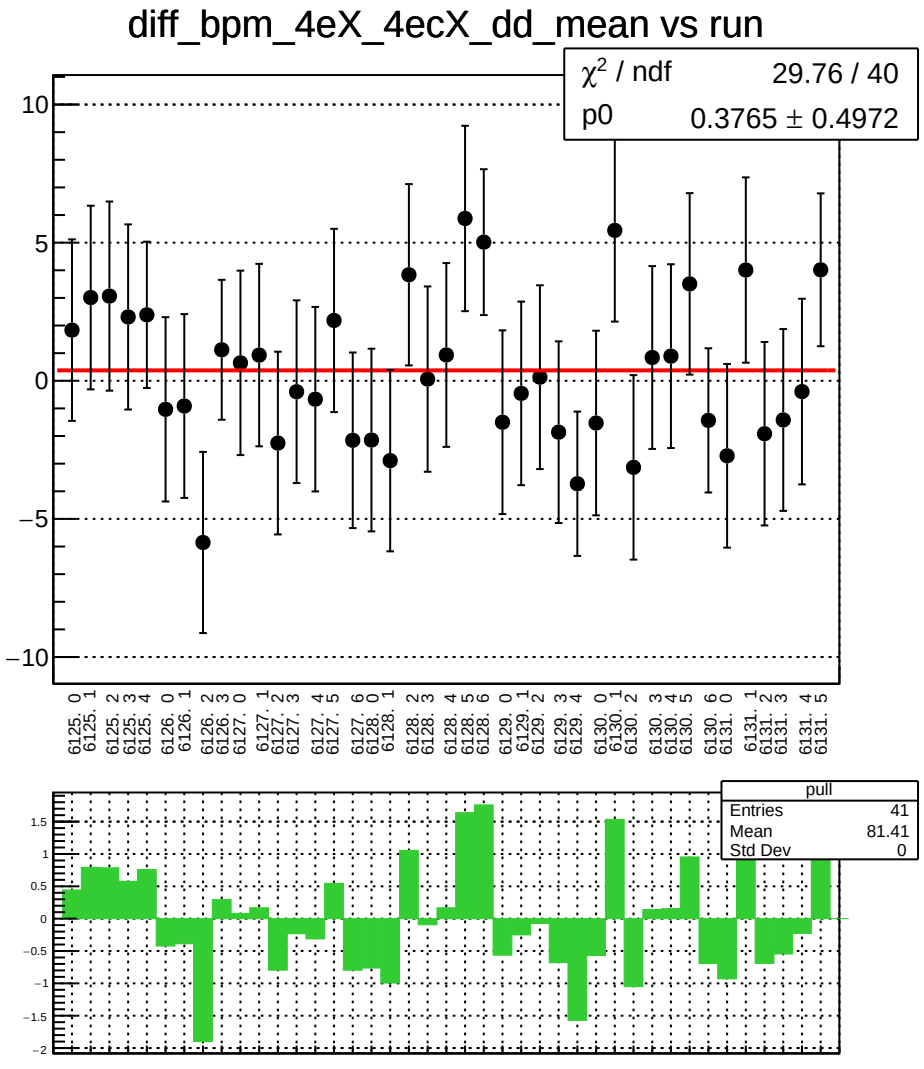

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 20.59 / 40
p0 −1.355 ± 2.067
pull
Entries 41
Mean 1764
Std Dev 0
pull1D
Entries 41
Mean 0.001056
Std Dev 0.7087

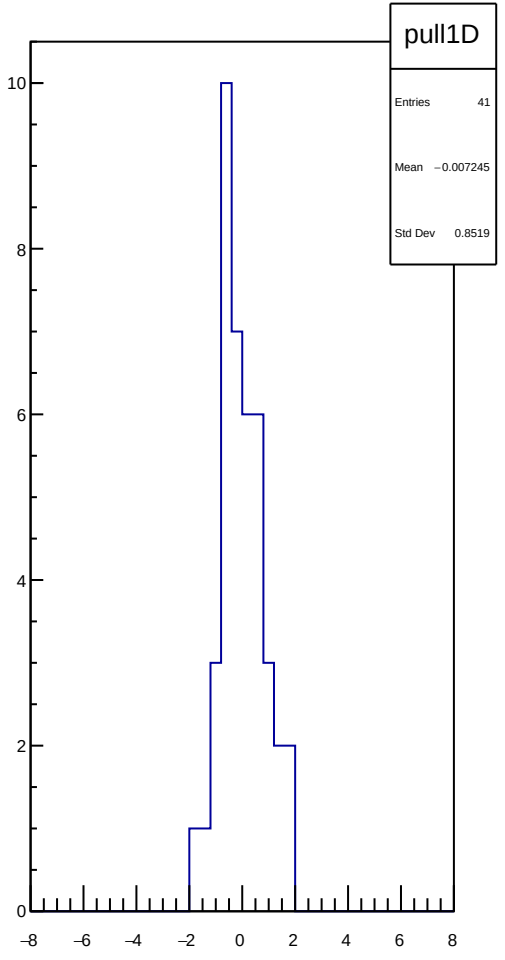

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 1452 / 40
p0 1310 ± 1.462
1450
1400
1350
1300
1250
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

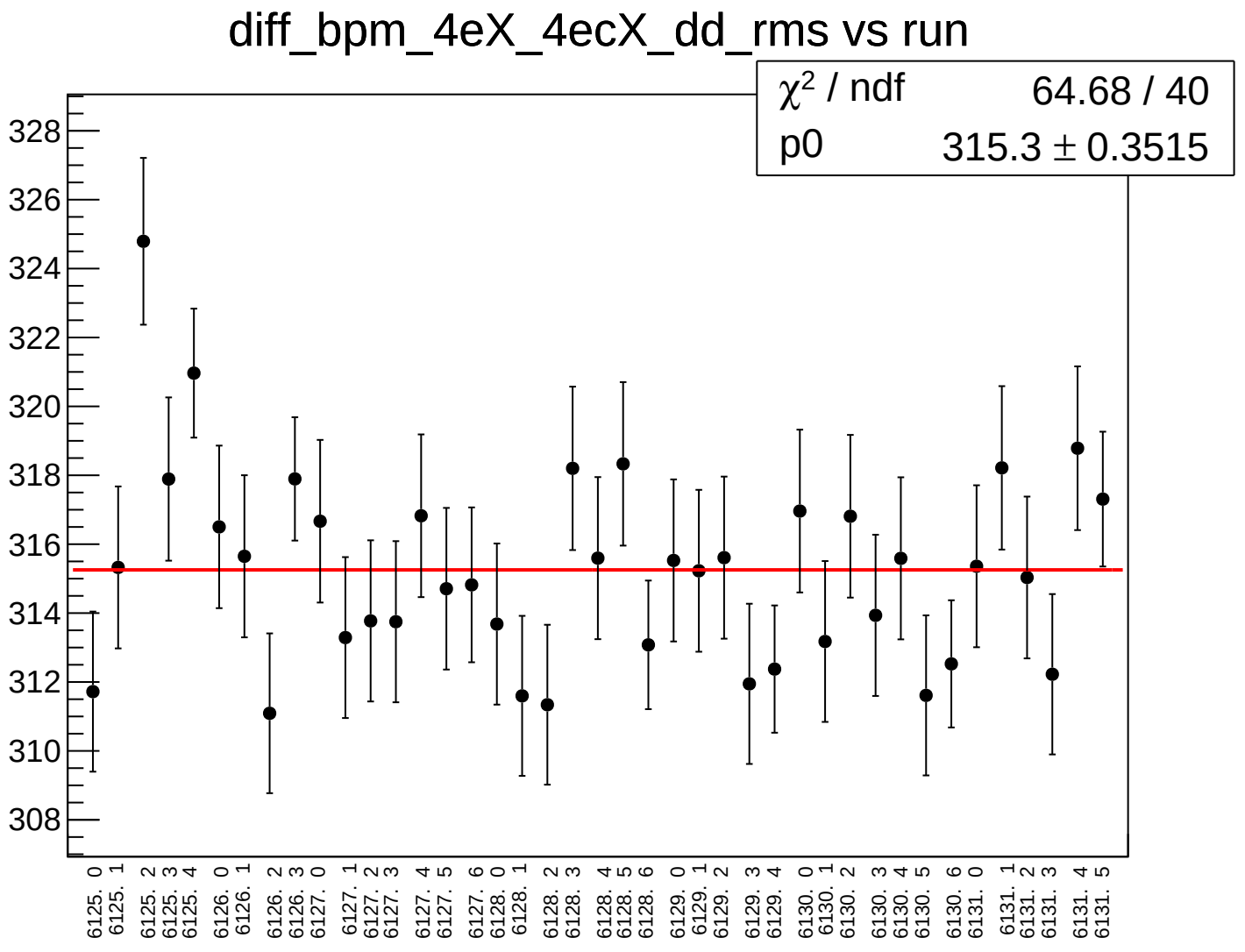

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 23.25 / 40
p0 −17.5 ± 19.85
pull
Entries 41
Mean −2174
Std Dev 0

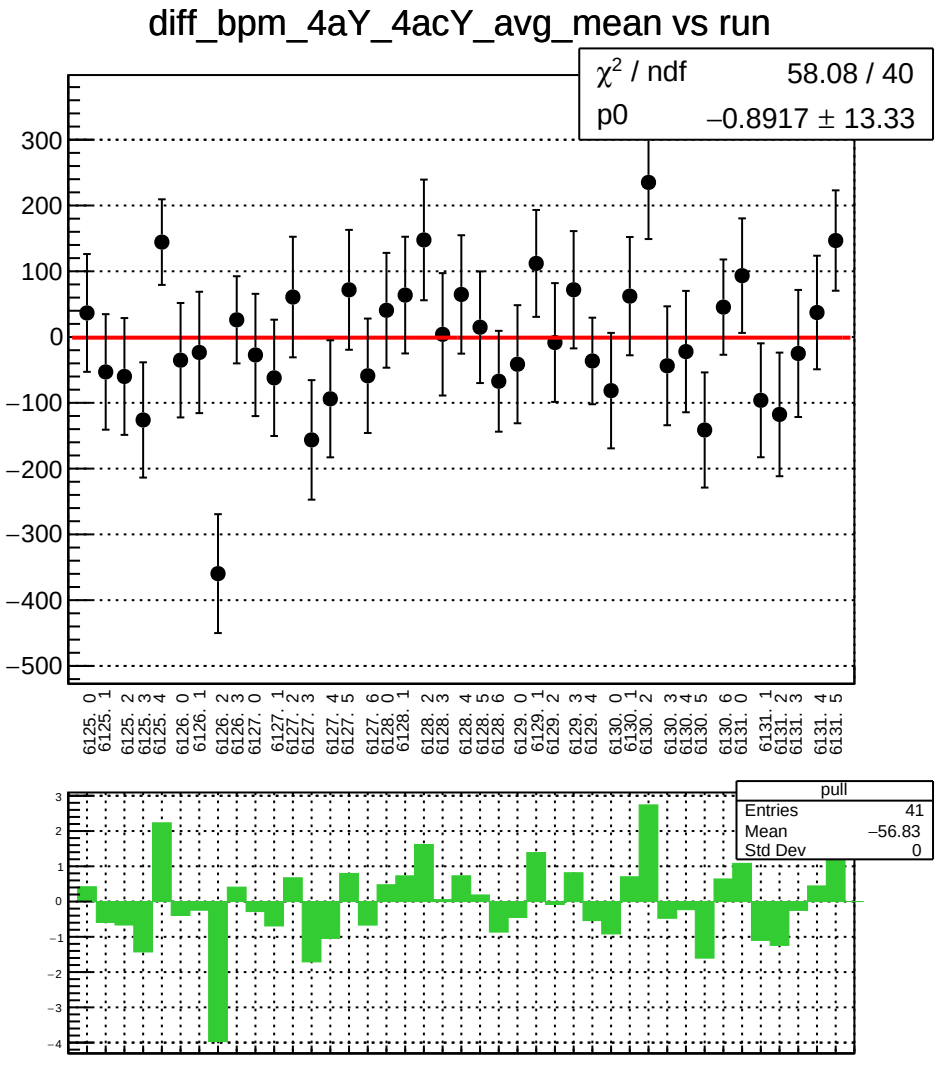

pull1D
Entries 41
Mean −0.001123
Std Dev 0.753

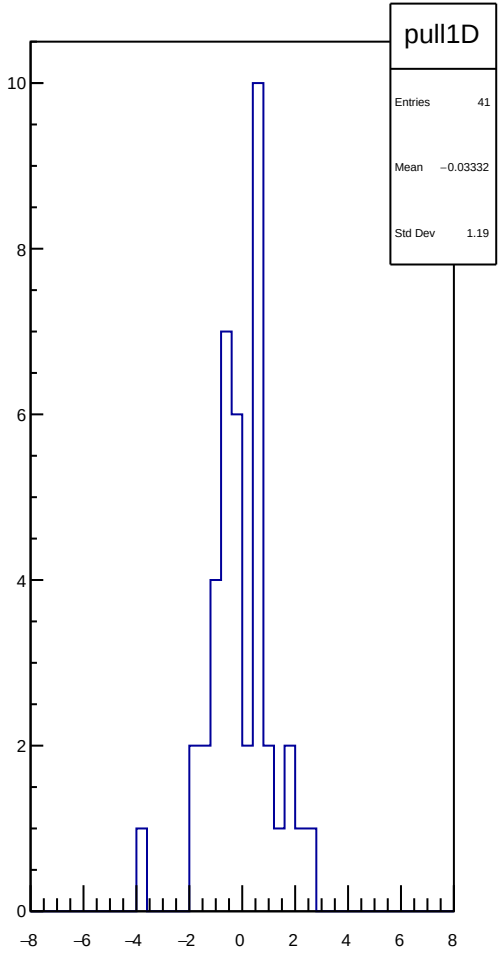

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 2487 / 40
p0 1.257e+04 ± 14.04
14500
14000
13500
13000
12500
12000
11500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

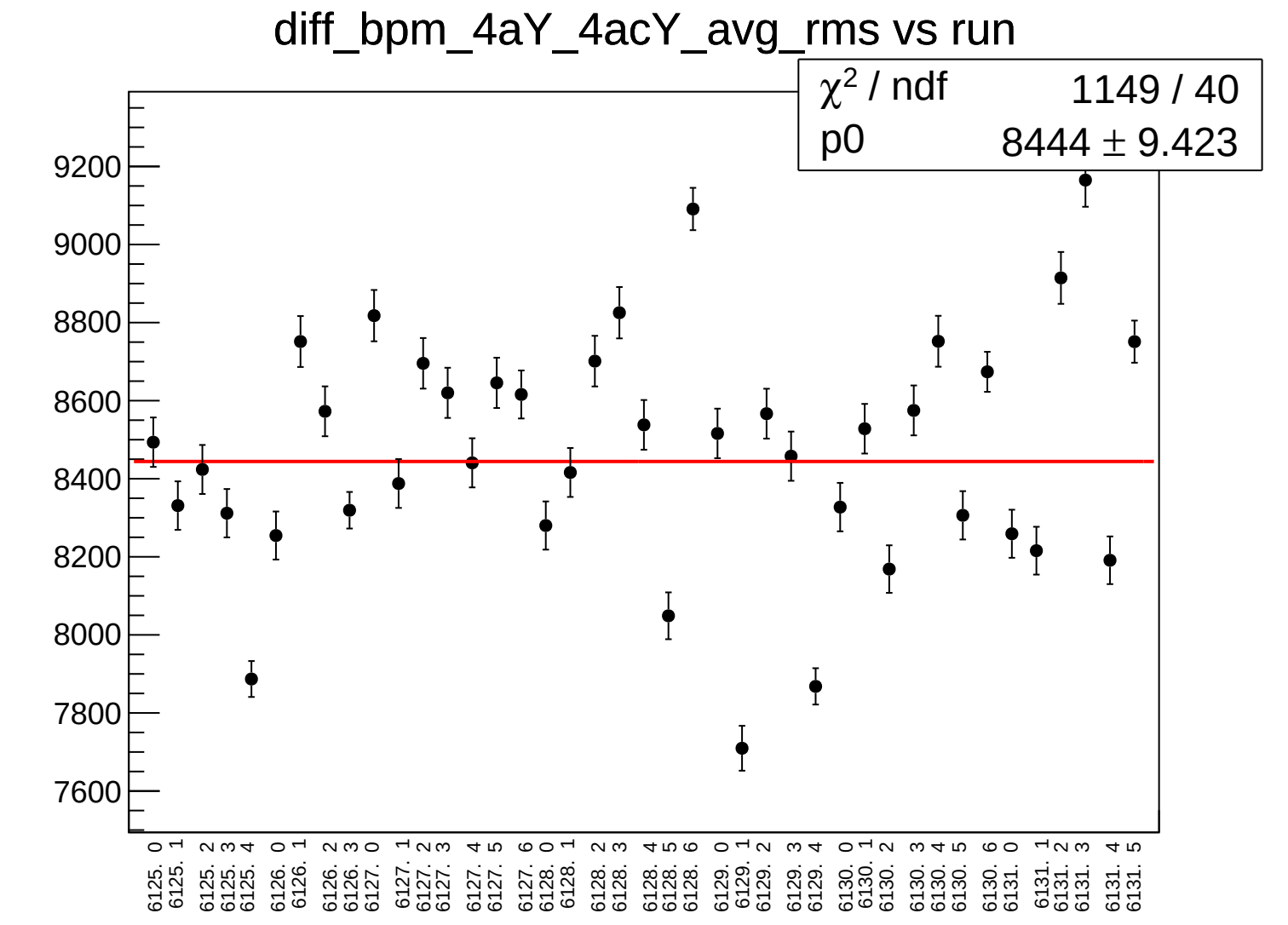

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 29.76 / 40
p0 0.3765 ± 0.4972
10
5
0
−5
−10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 81.41
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

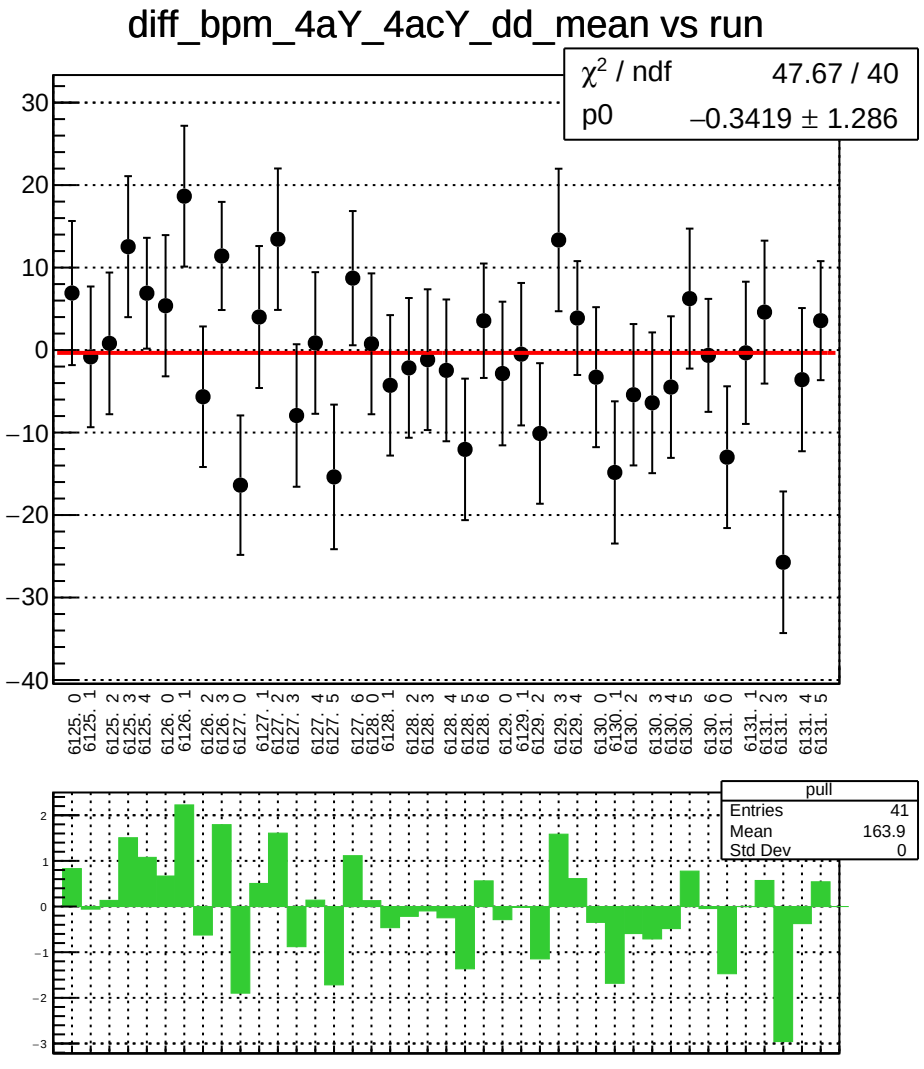

pull1D
Entries 41
Mean −0.007245
Std Dev 0.8519
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

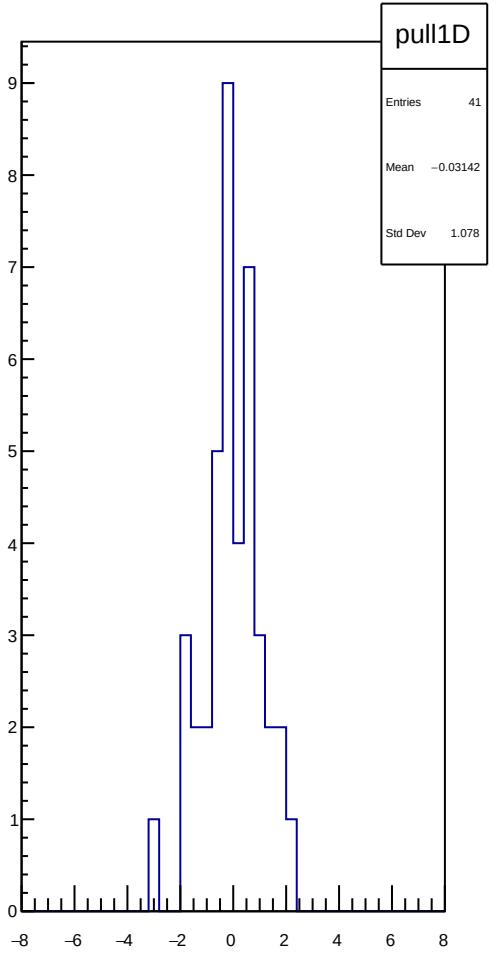

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 64.68 / 40
p0 315.3 ± 0.3515
328
326
324
322
320
318
316
314
312
310
308
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

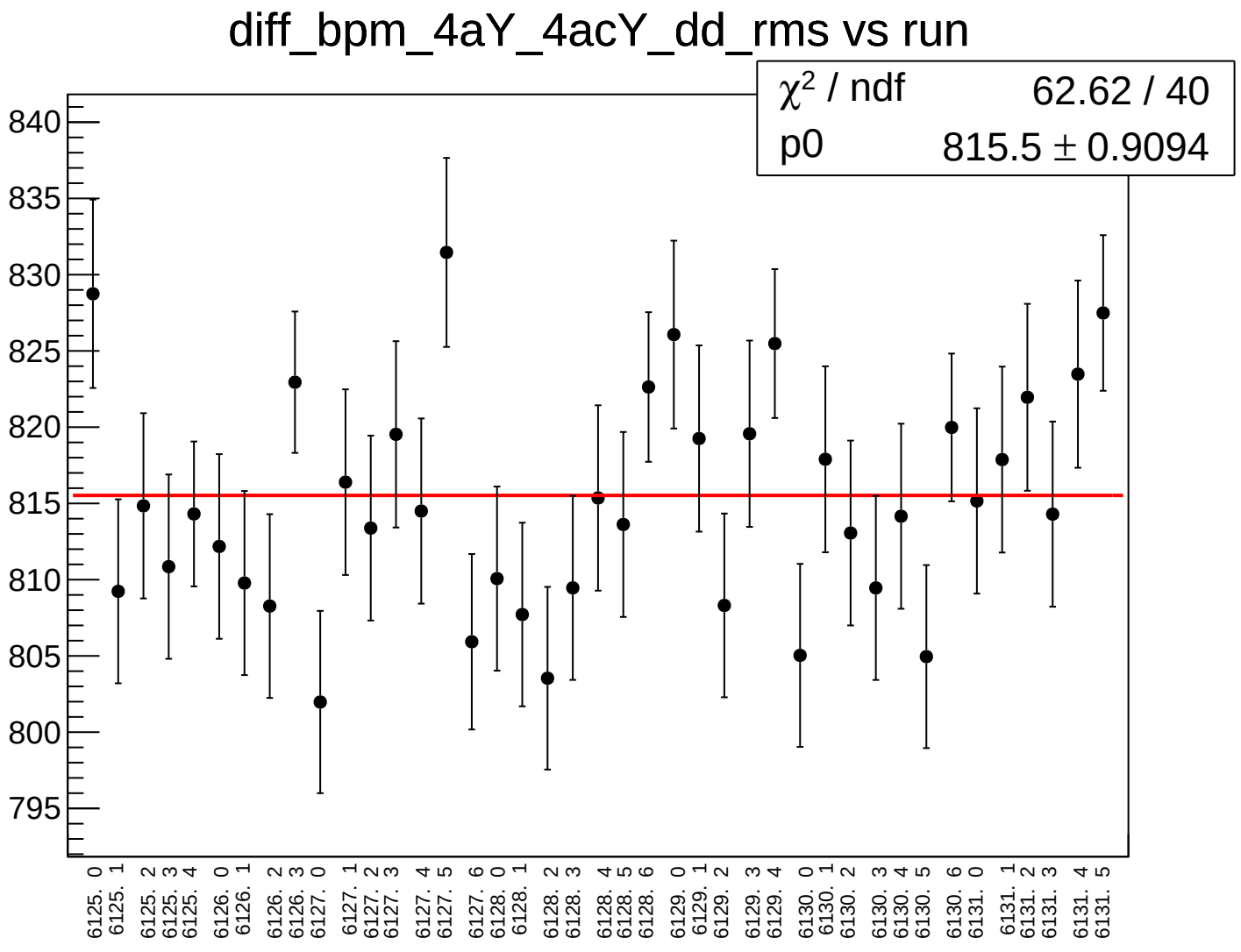

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 58.08 / 40
p0 −0.8917 ± 13.33
pull
Entries 41
Mean −56.83
Std Dev 0

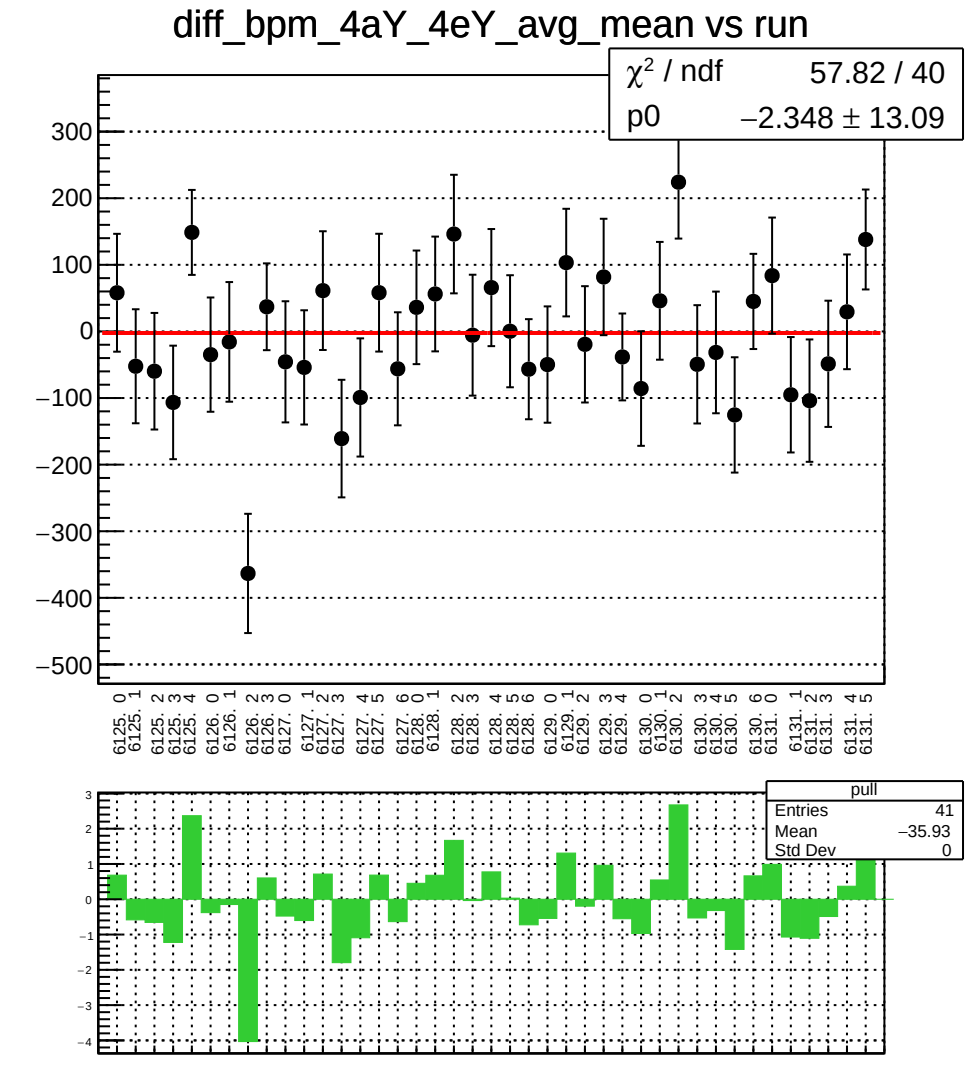

pull1D
Entries 41
Mean −0.03332
Std Dev 1.19

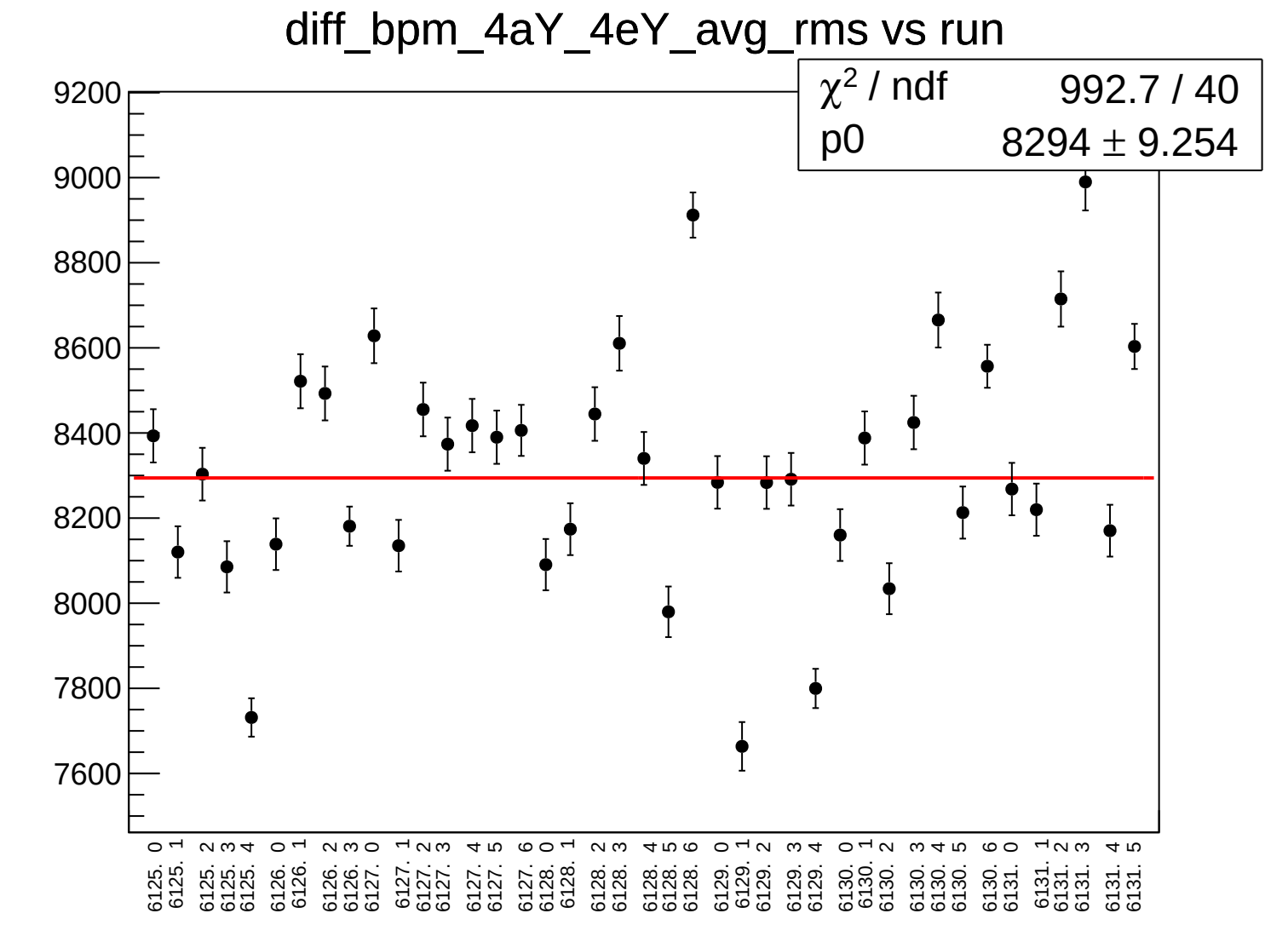

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 1149 / 40
p0 8444 ± 9.423
9200
9000
8800
8600
8400
8200
8000
7800
7600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

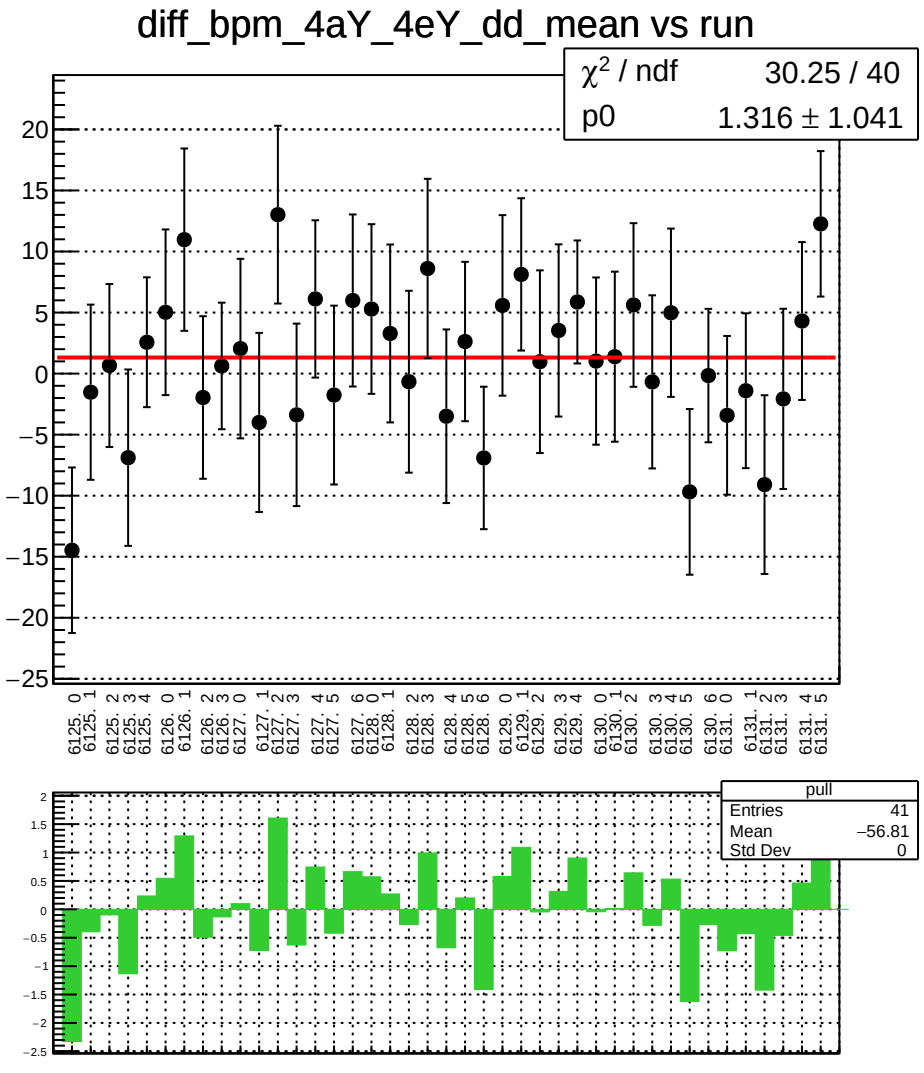

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 47.67 / 40
p0 −0.3419 ± 1.286
pull
Entries 41
Mean 163.9
Std Dev 0

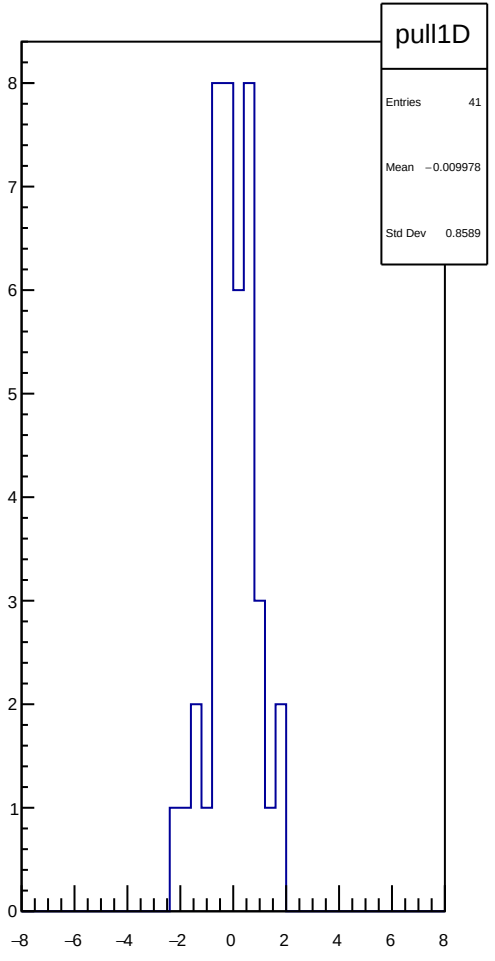

pull1D
Entries 41
Mean −0.03142
Std Dev 1.078

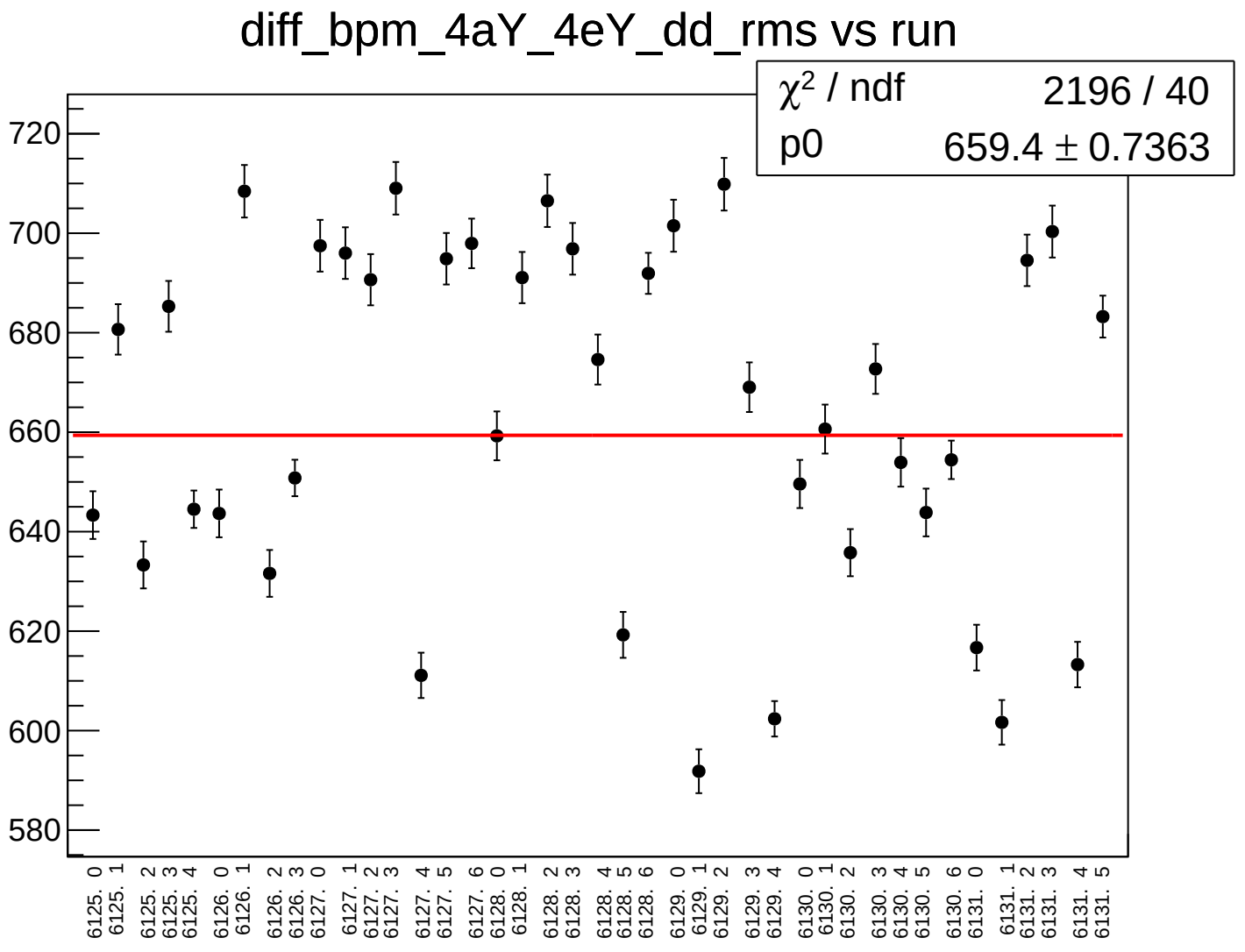

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 62.62 / 40
p0 815.5 ± 0.9094
840
835
830
825
820
815
810
805
800
795
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

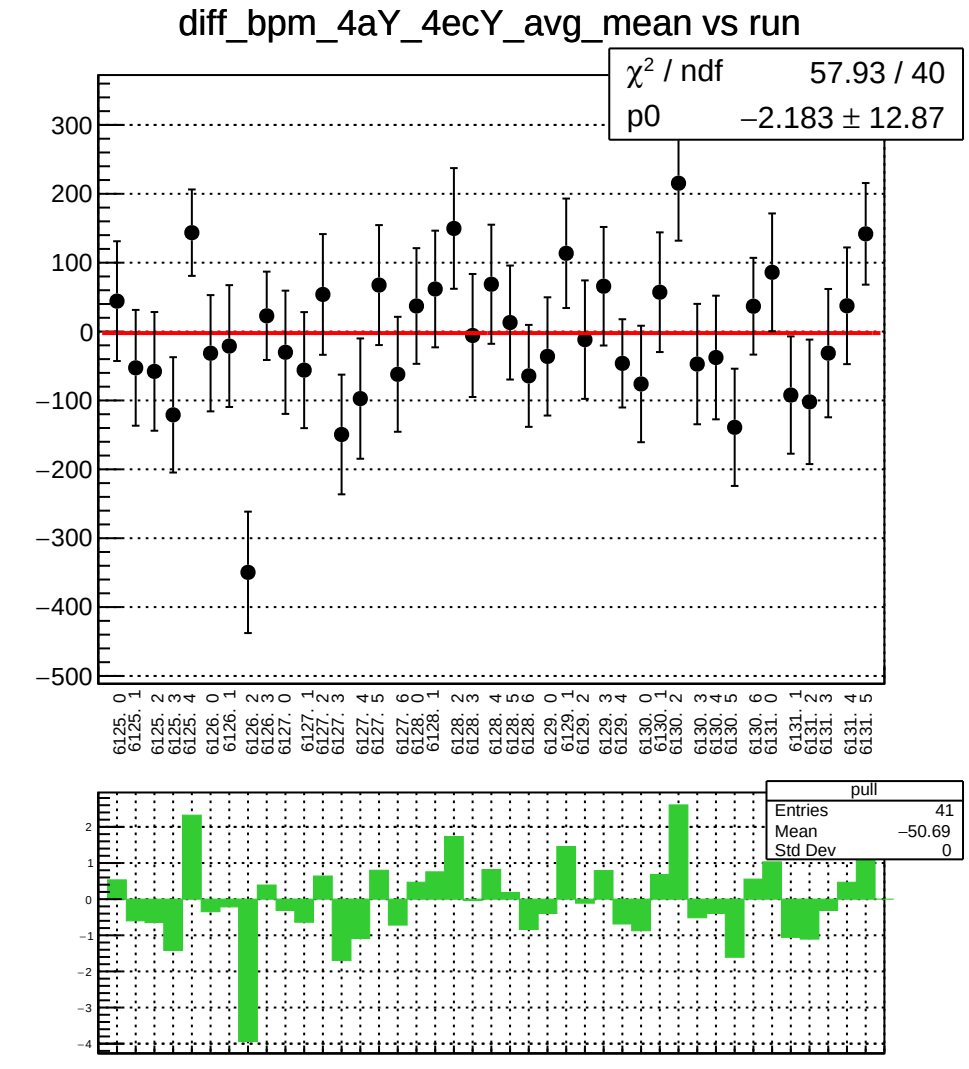

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 57.82 / 40
p0 −2.348 ± 13.09
300
200
100
0
−100
−200
−300
−400
−500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −35.93
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 41
Mean −0.03742
Std Dev 1.187
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

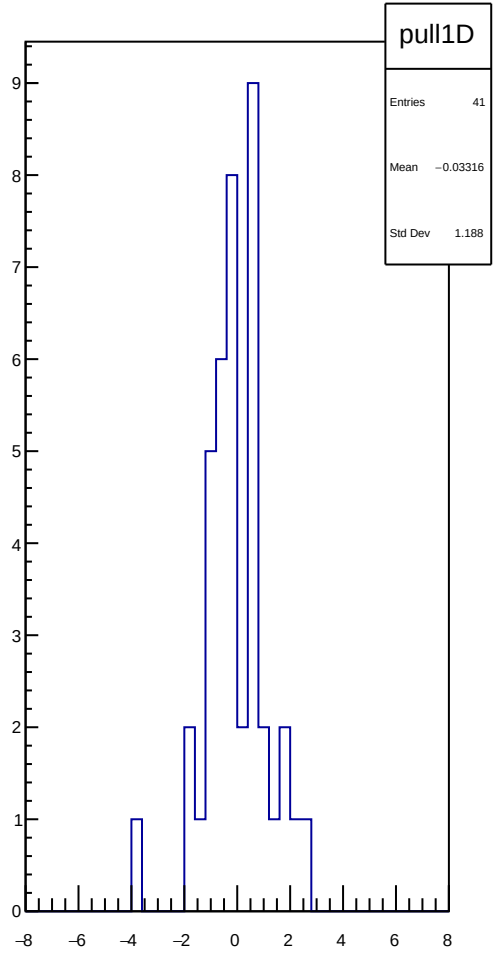

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 992.7 / 40
p0 8294 ± 9.254
9200
9000
8800
8600
8400
8200
8000
7800
7600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

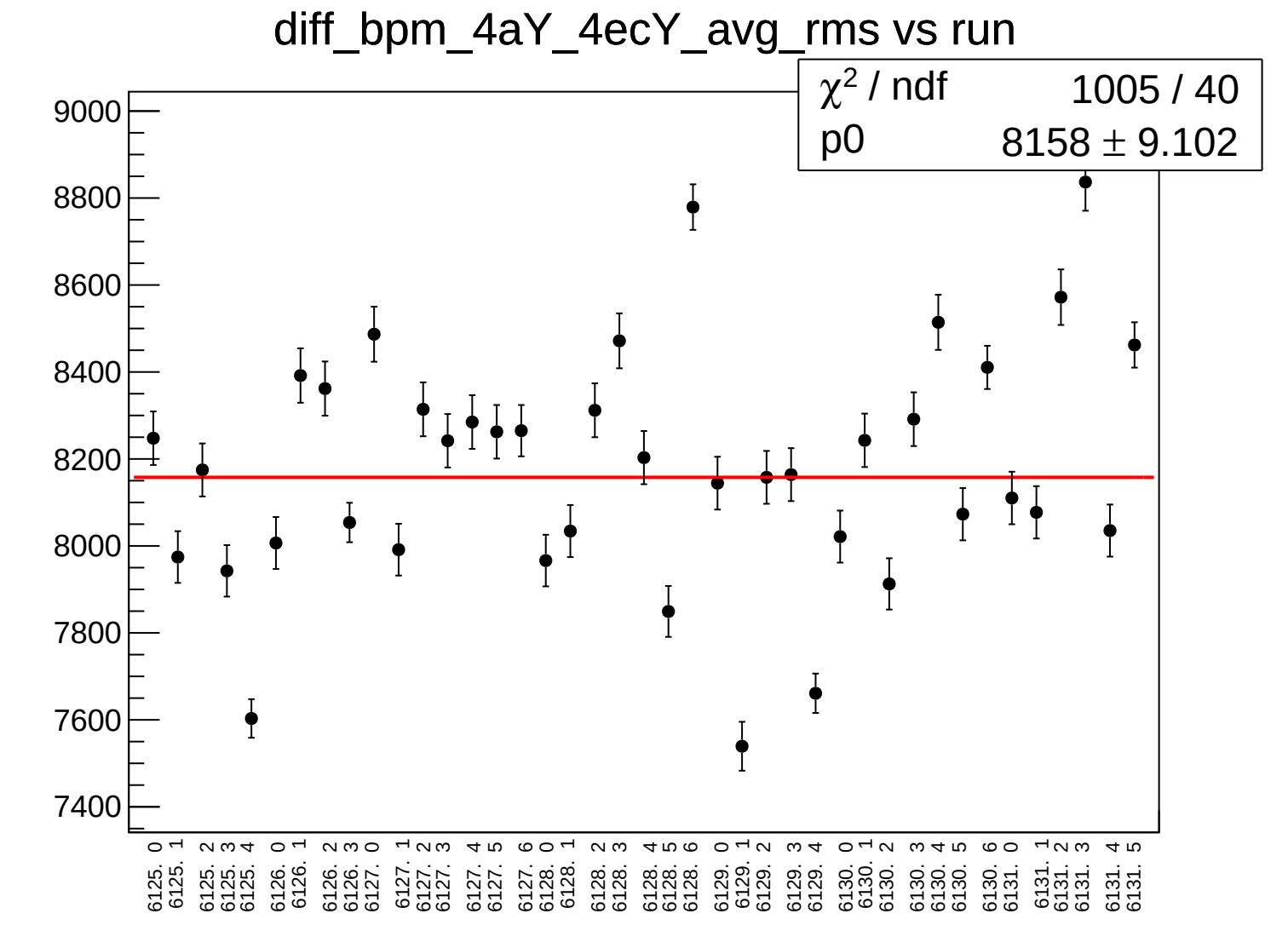

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 30.25 / 40
p0 1.316 ± 1.041
pull
Entries 41
Mean −56.81
Std Dev 0

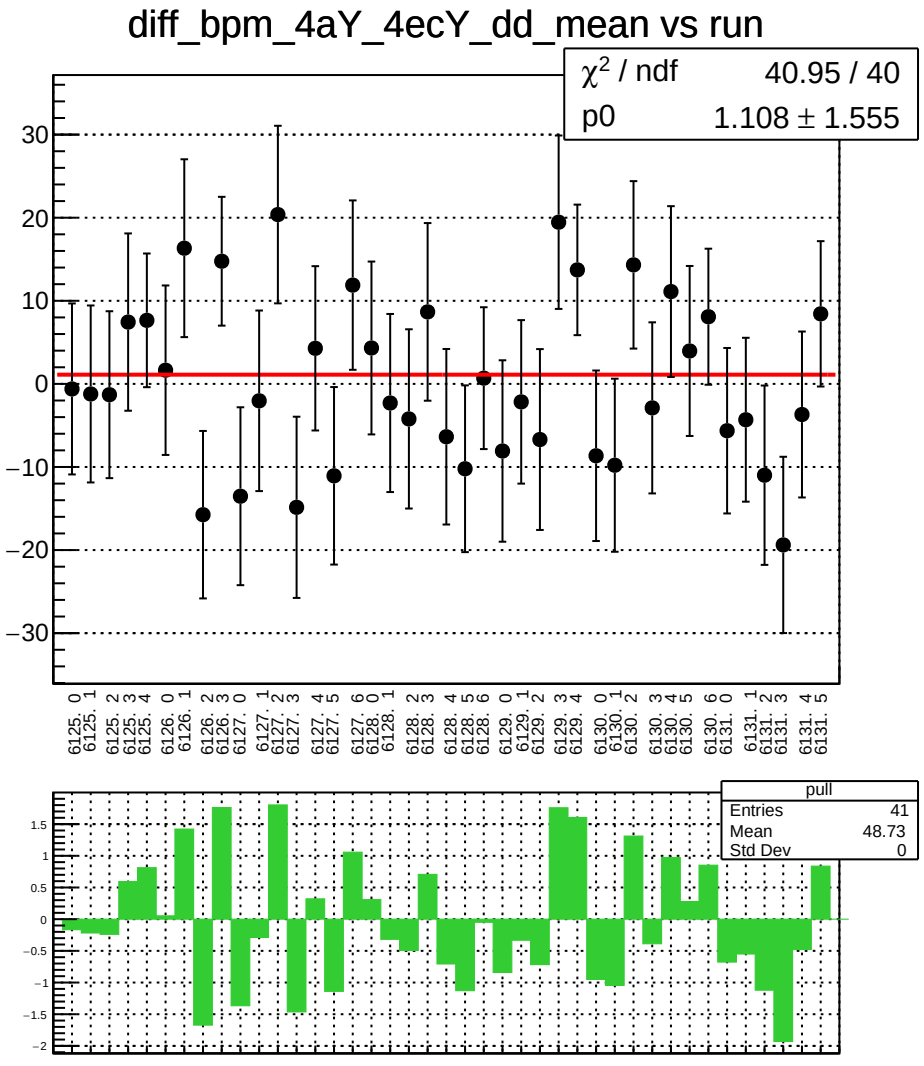

pull1D
Entries 41
Mean −0.009978
Std Dev 0.8589

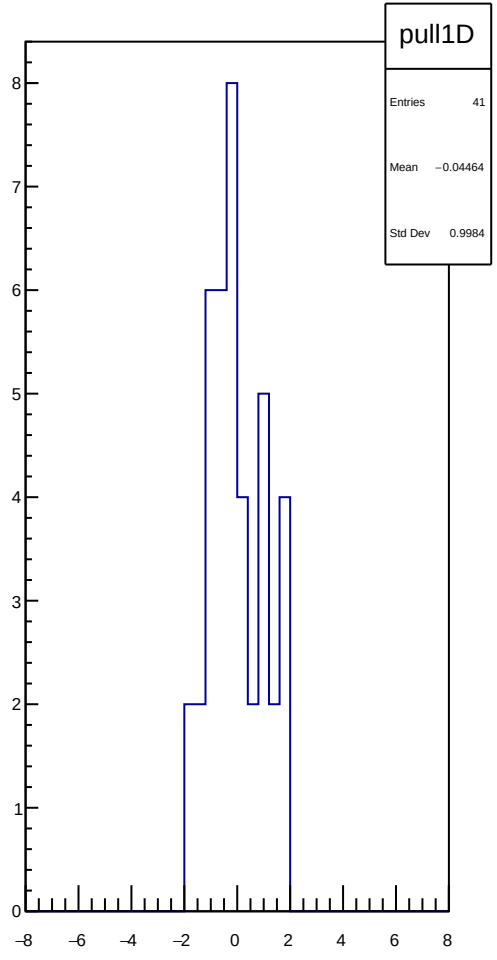

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 2196 / 40
p0 659.4 ± 0.7363
720
700
680
660
640
620
600
580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

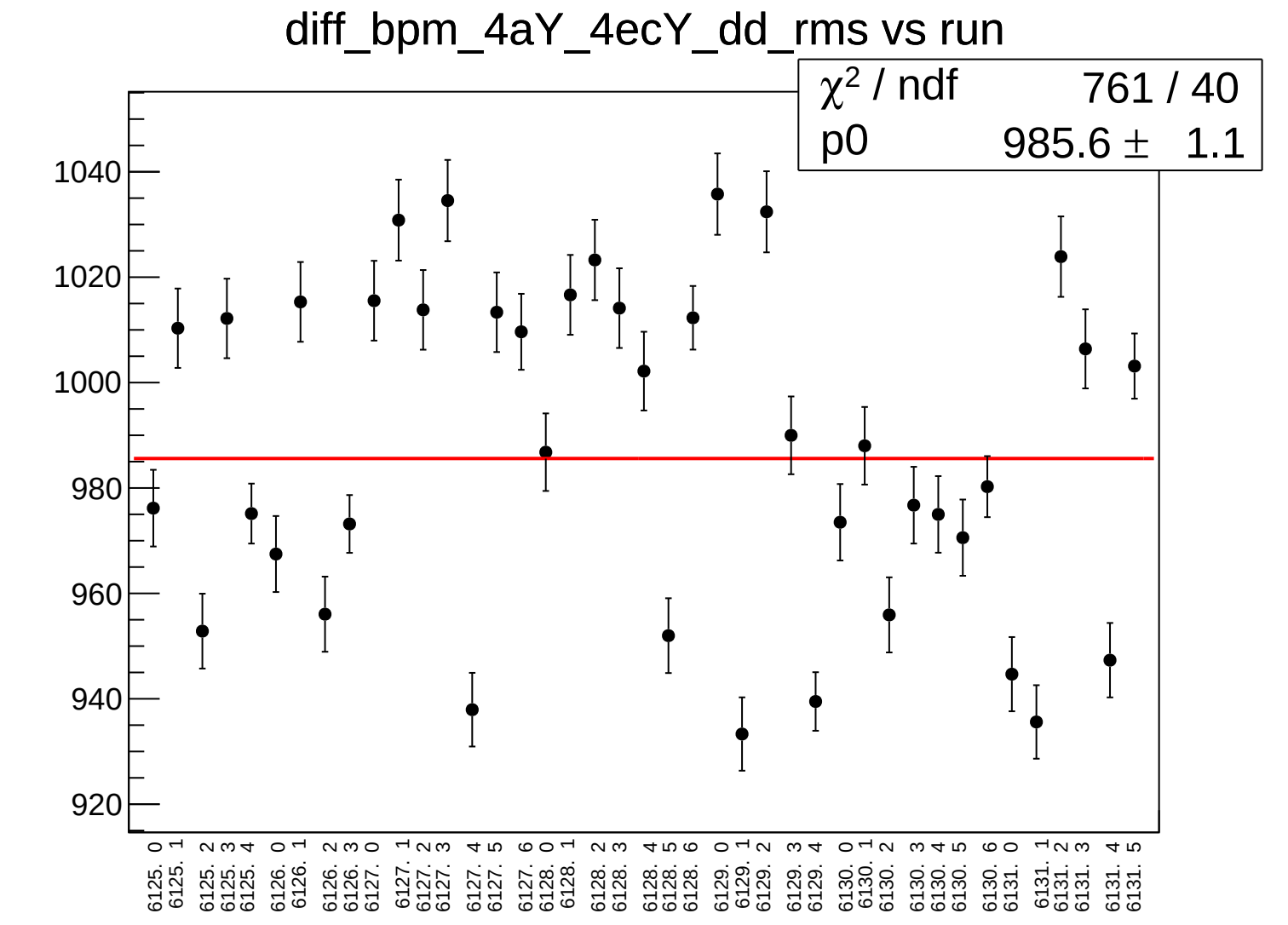

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 57.93 / 40
p0 −2.183 ± 12.87
pull
Entries 41
Mean −50.69
Std Dev 0

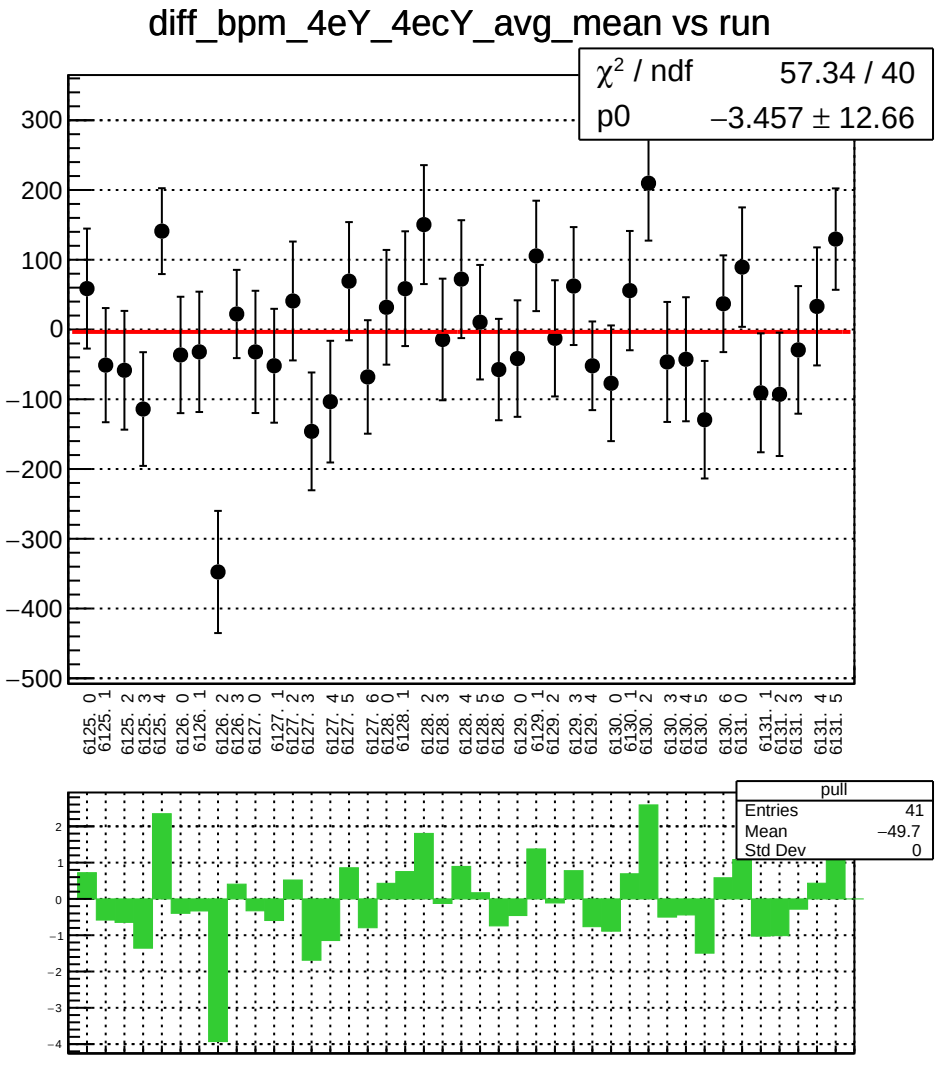

pull1D
Entries 41
Mean −0.03316
Std Dev 1.188

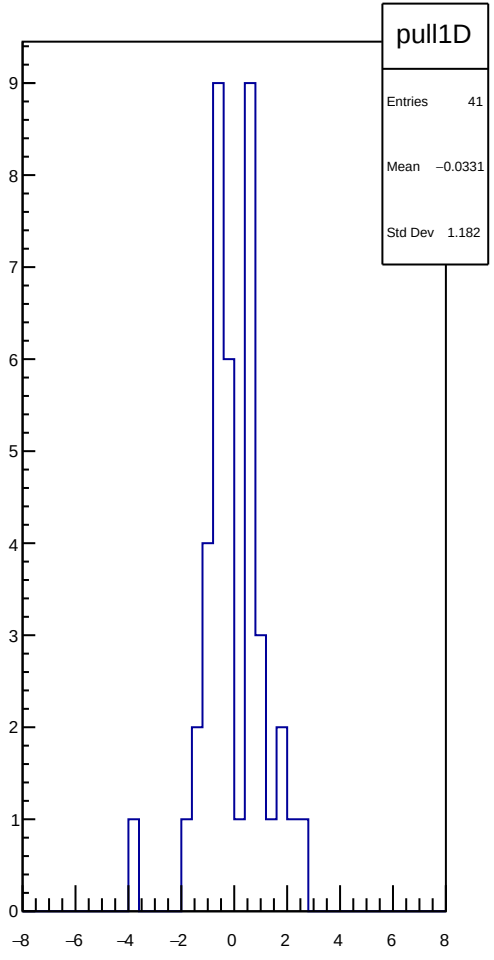

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 1005 / 40
p0 8158 ± 9.102
9000
8800
8600
8400
8200
8000
7800
7600
7400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

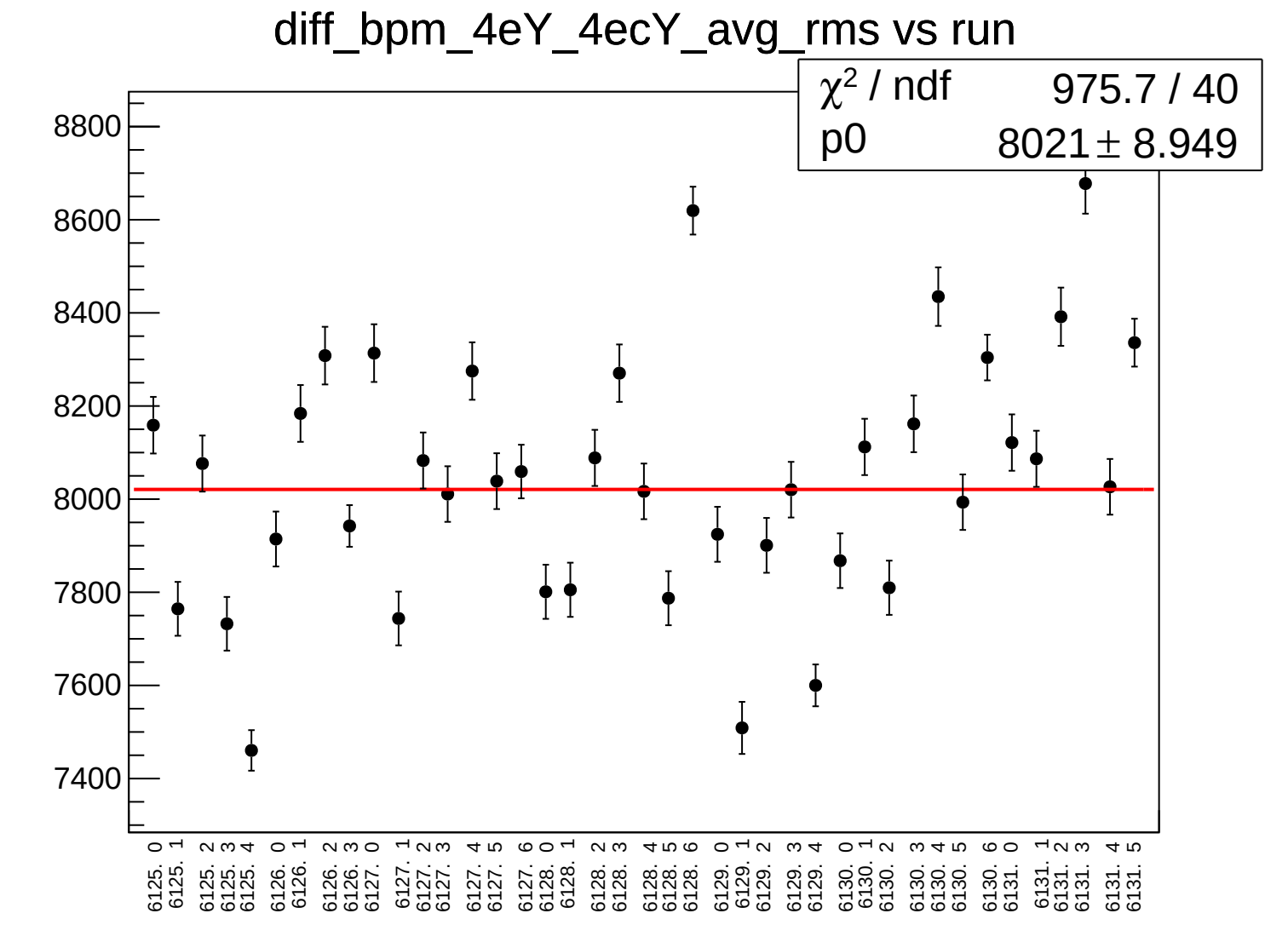

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 40.95 / 40
p0 1.108 ± 1.555
pull
Entries 41
Mean 48.73
Std Dev 0

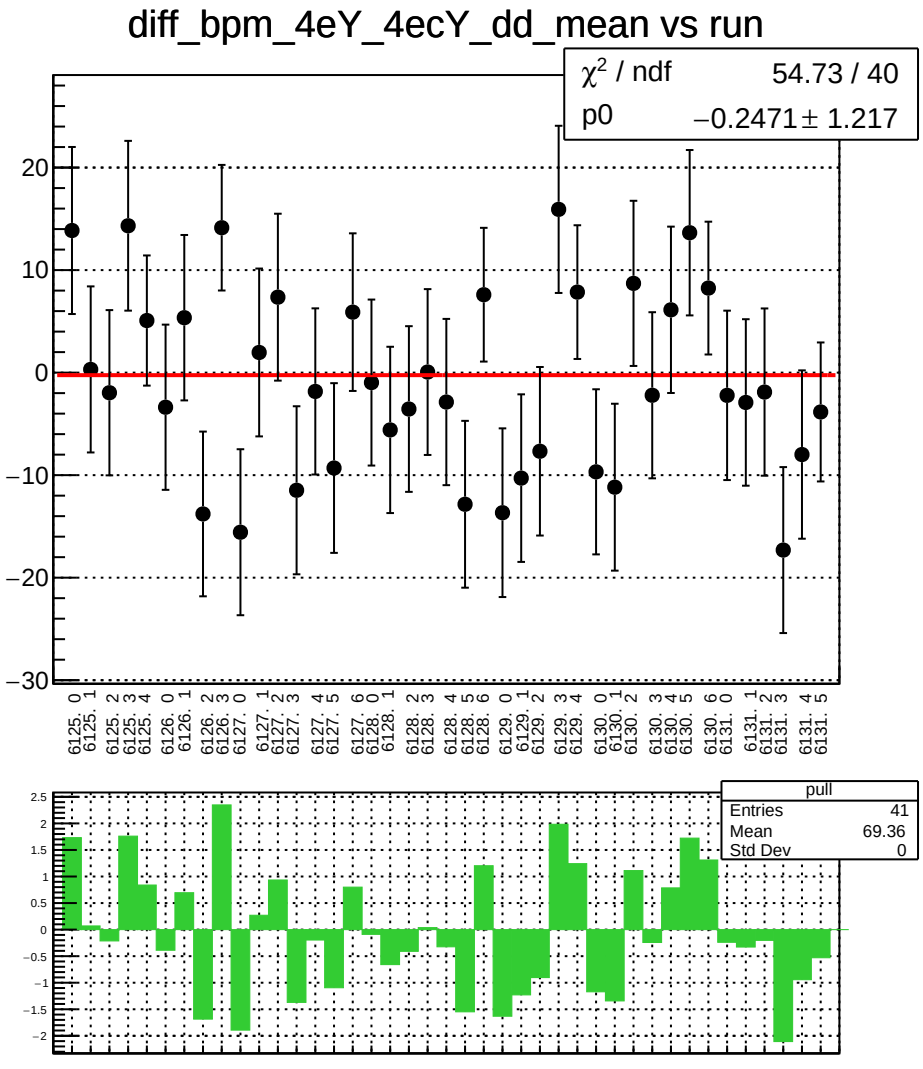

pull1D
Entries 41
Mean −0.04464
Std Dev 0.9984

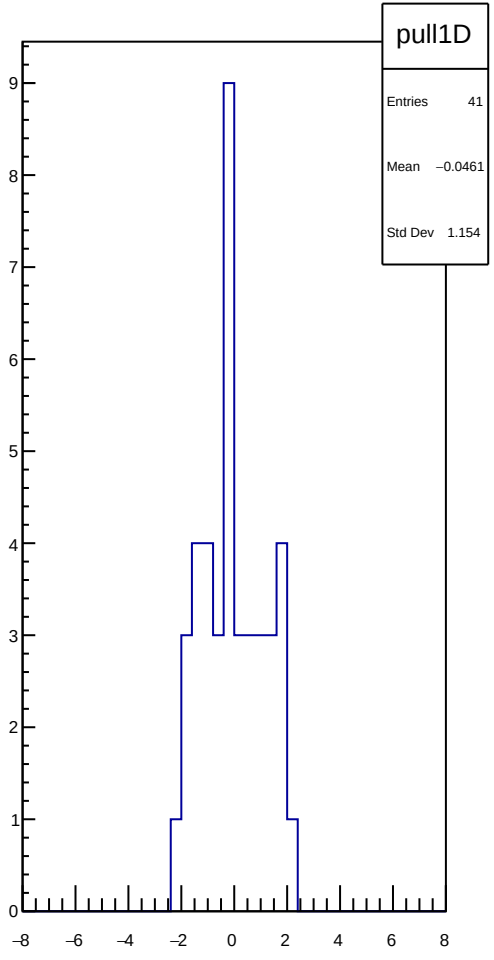

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 761 / 40
p0 985.6 ± 1.1
1040
1020
1000
980
960
940
920
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

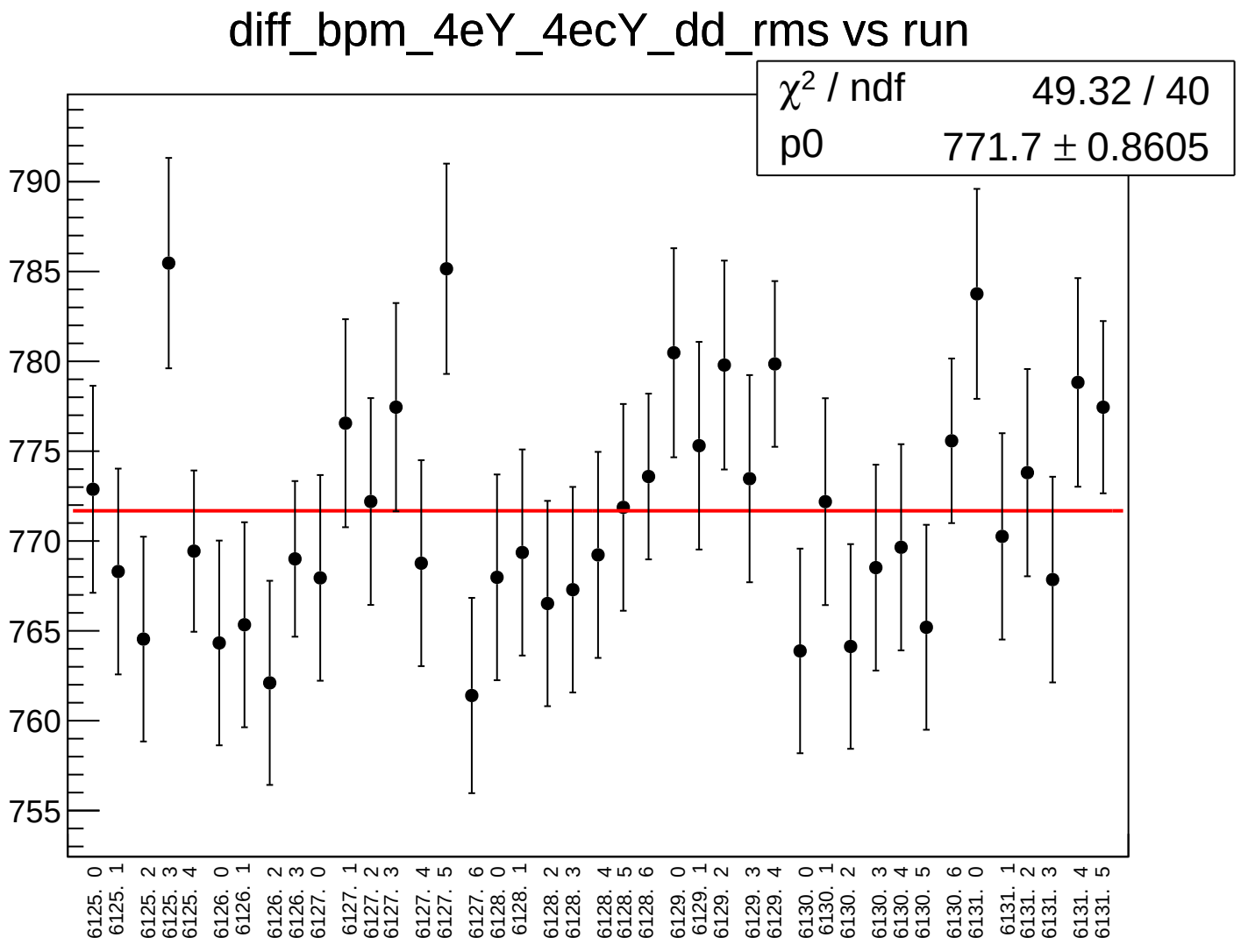

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 57.34 / 40
p0 −3.457 ± 12.66
pull
Entries 41
Mean −49.7
Std Dev 0

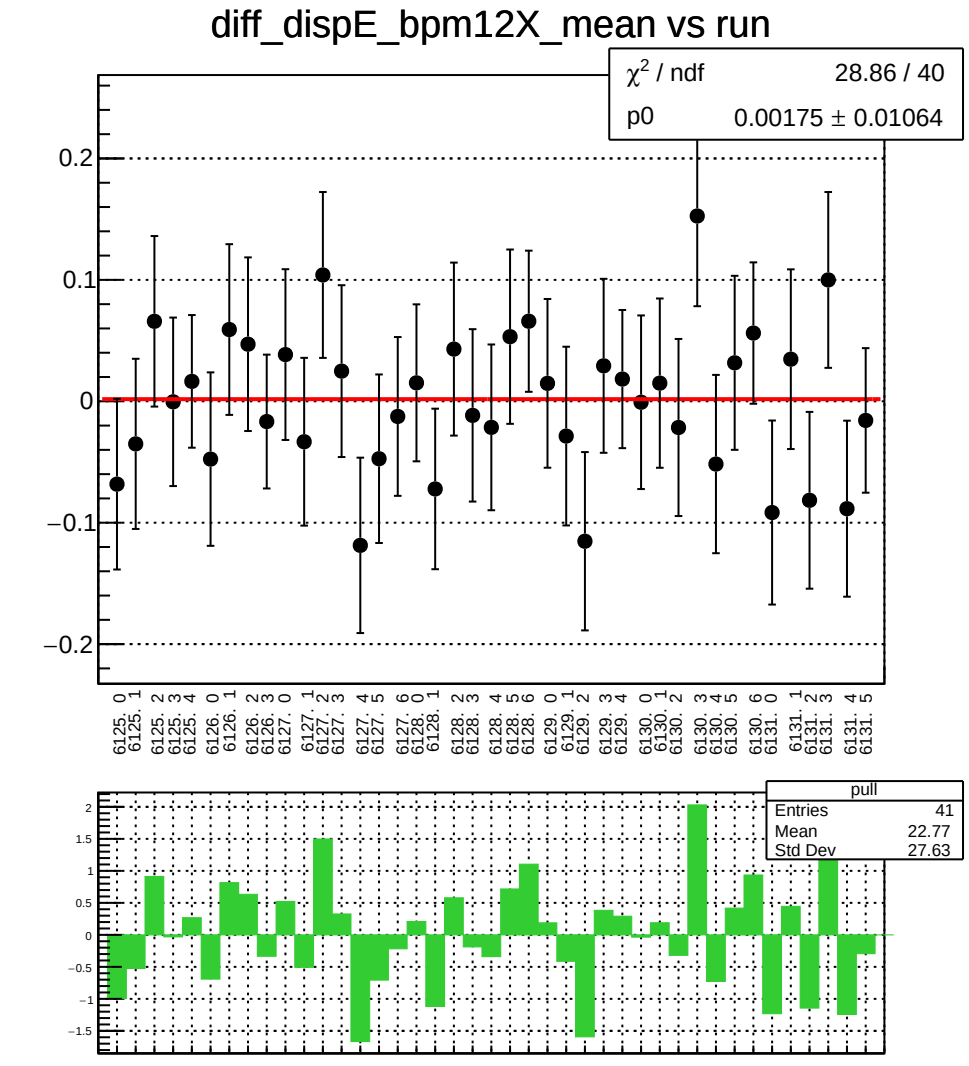

pull1D
Entries 41
Mean −0.0331
Std Dev 1.182

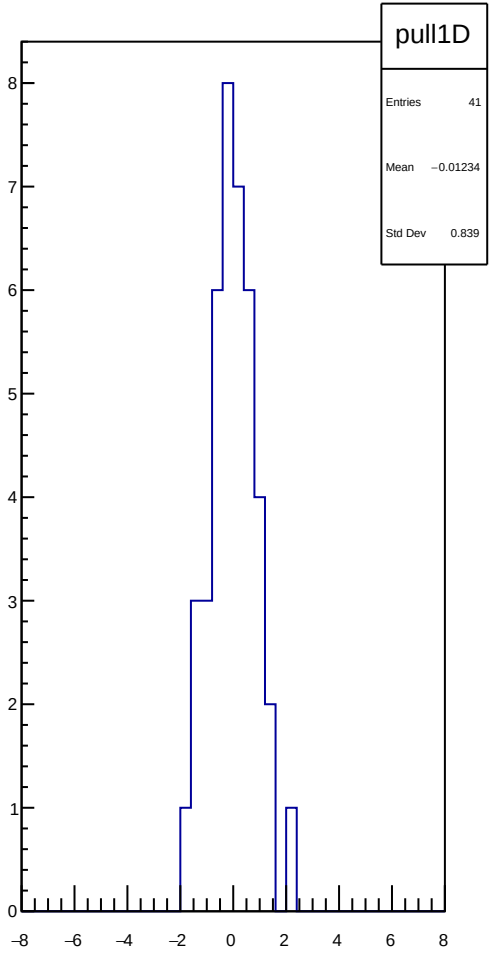

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 975.7 / 40
p0 8021 ± 8.949
8800
8600
8400
8200
8000
7800
7600
7400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

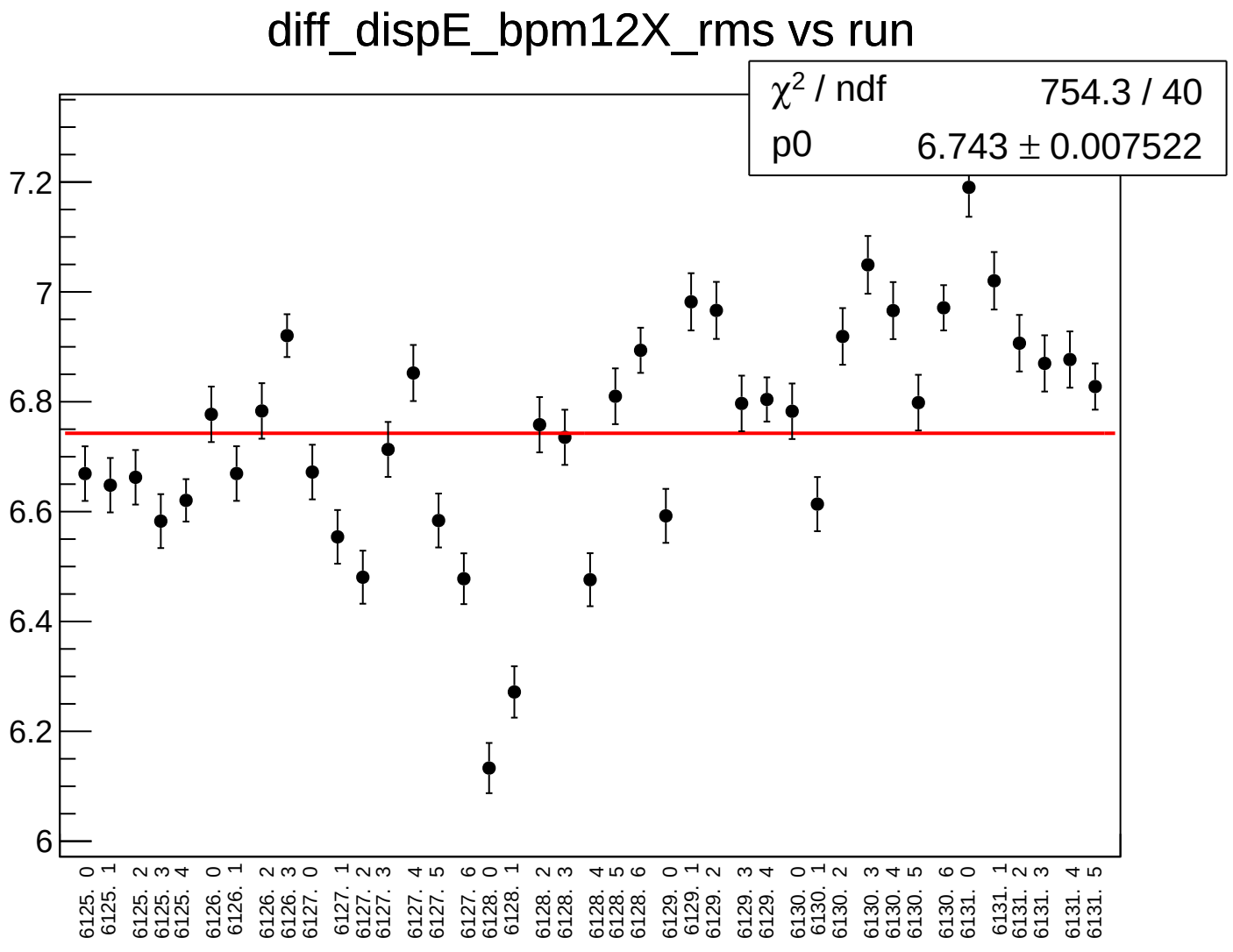

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 54.73 / 40
p0 −0.2471 ± 1.217
pull
Entries 41
Mean 69.36
Std Dev 0

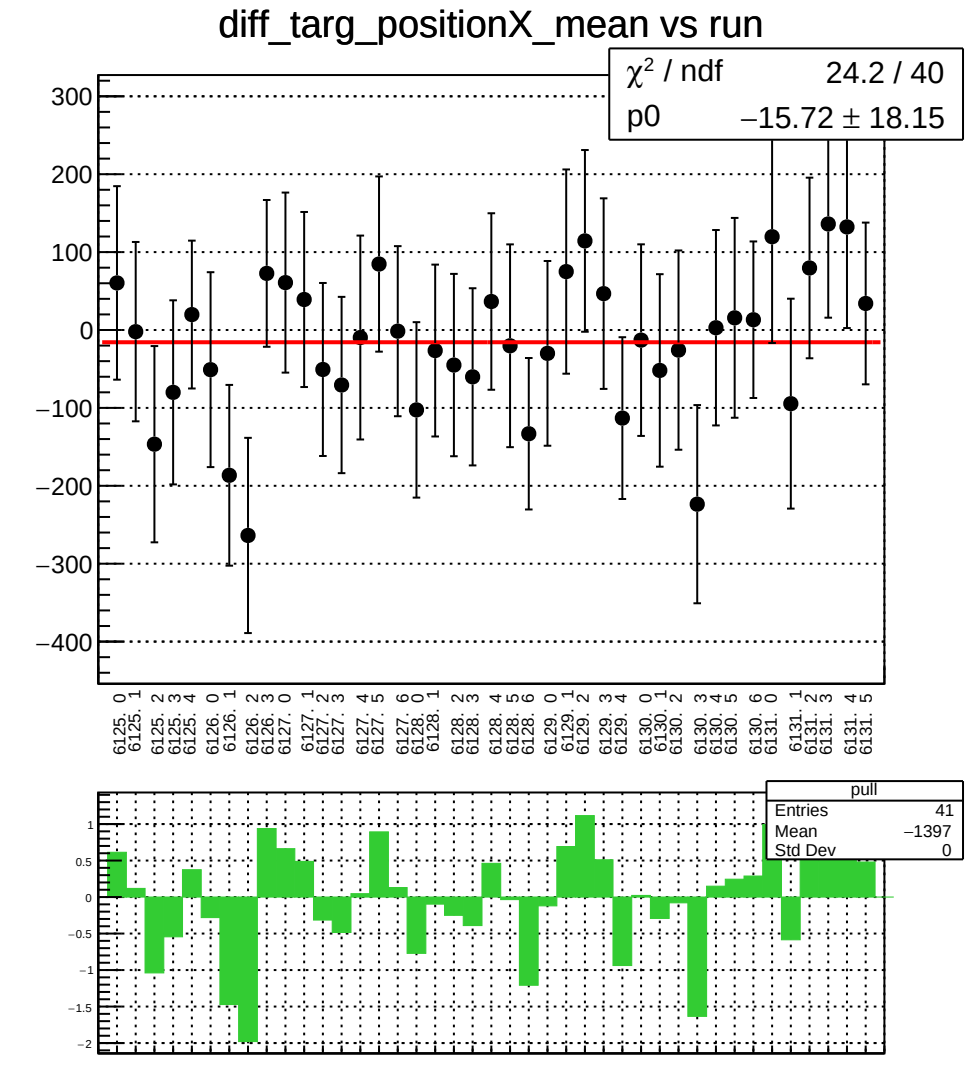

pull1D
Entries 41
Mean −0.0461
Std Dev 1.154

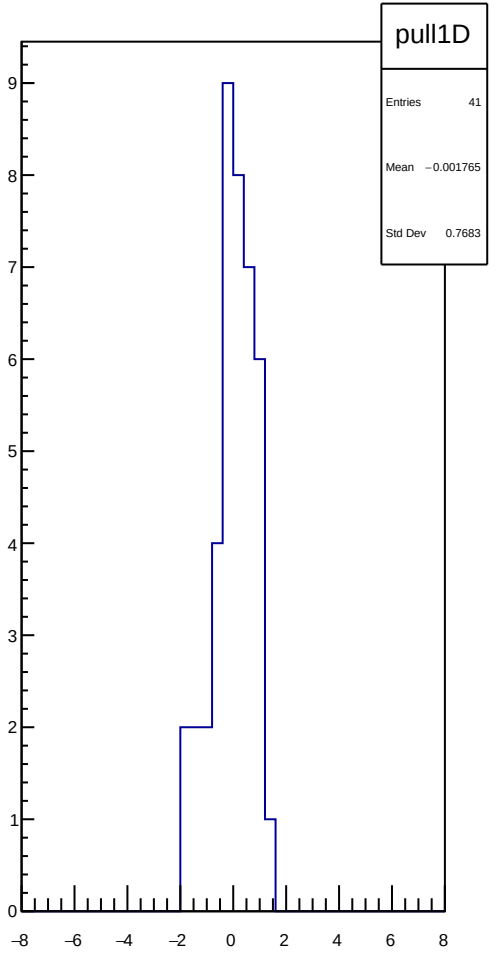

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 49.32 / 40
p0 771.7 ± 0.8605
790
785
780
775
770
765
760
755
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

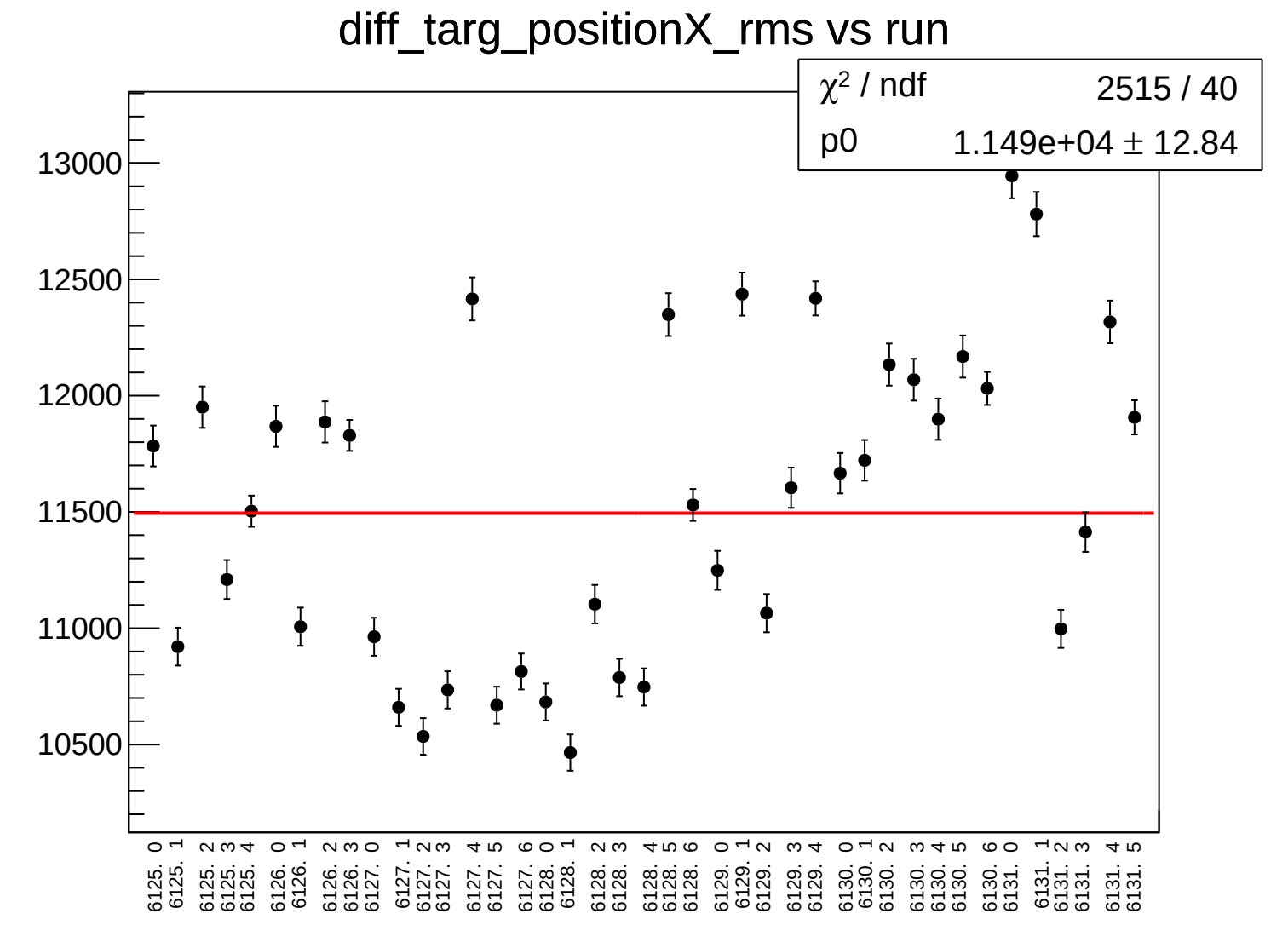

diff_dispE_bpm12X_mean vs run
χ² / ndf 28.86 / 40
p0 0.00175 ± 0.01064
0.2
0.1
0
−0.1
−0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 22.77
Std Dev 27.63
2
1.5
1
0.5
0
−0.5
−1
−1.5

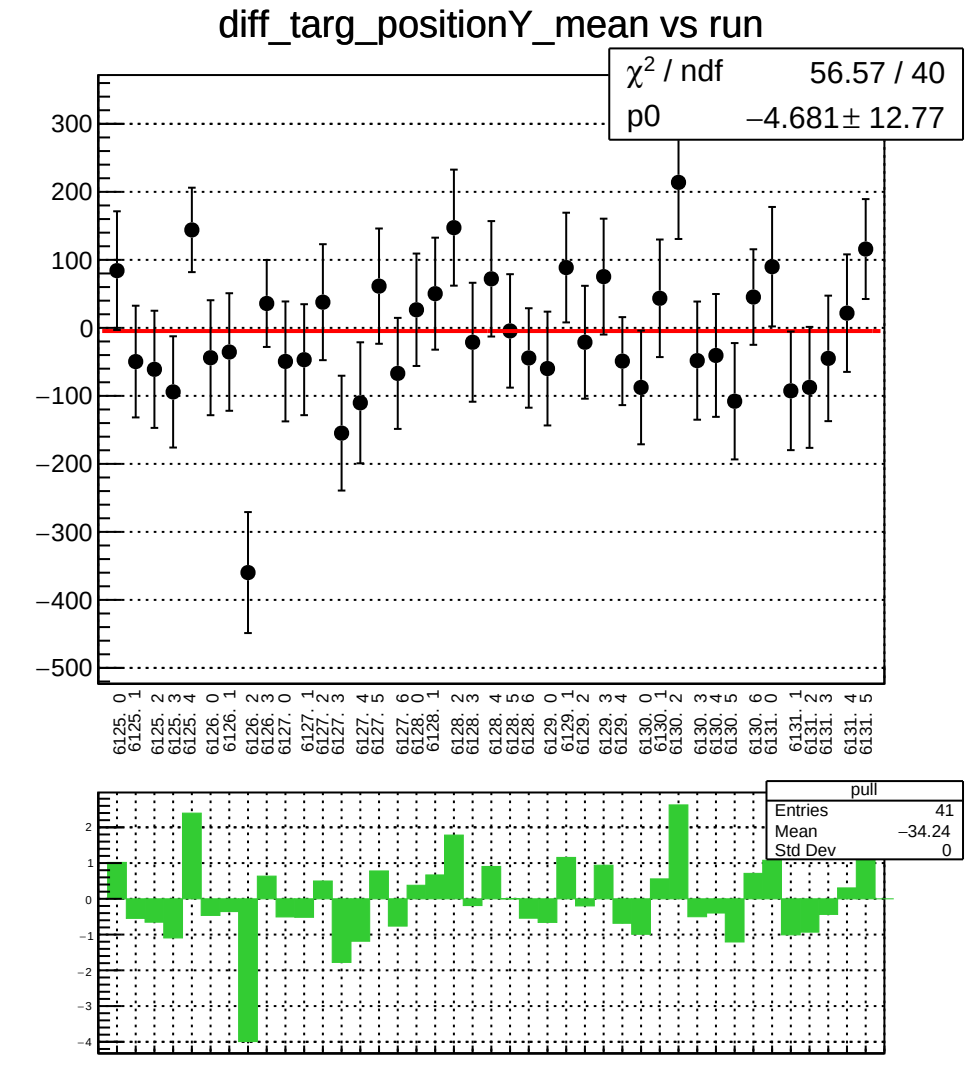

pull1D
Entries 41
Mean −0.01234
Std Dev 0.839
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

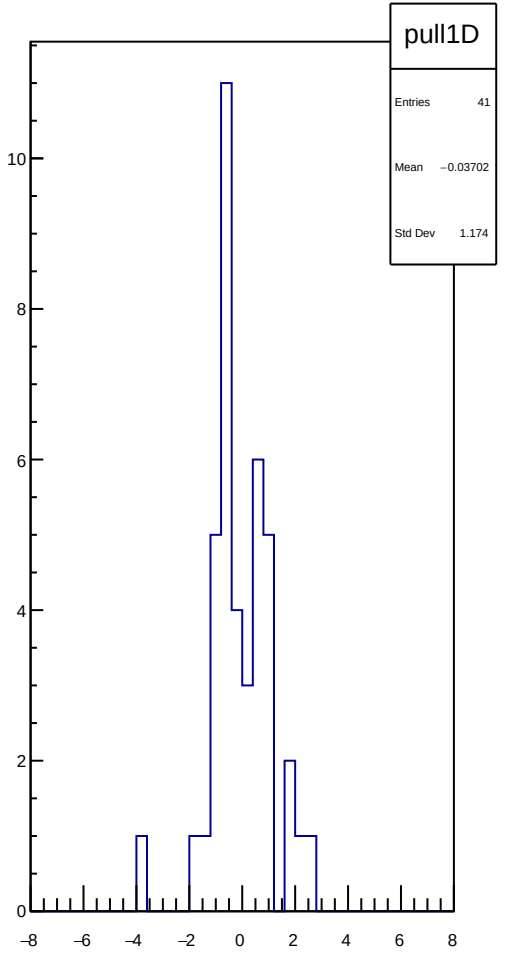

diff_dispE_bpm12X_rms vs run
χ² / ndf 754.3 / 40
p0 6.743 ± 0.007522
7.2
7
6.8
6.6
6.4
6.2
6
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

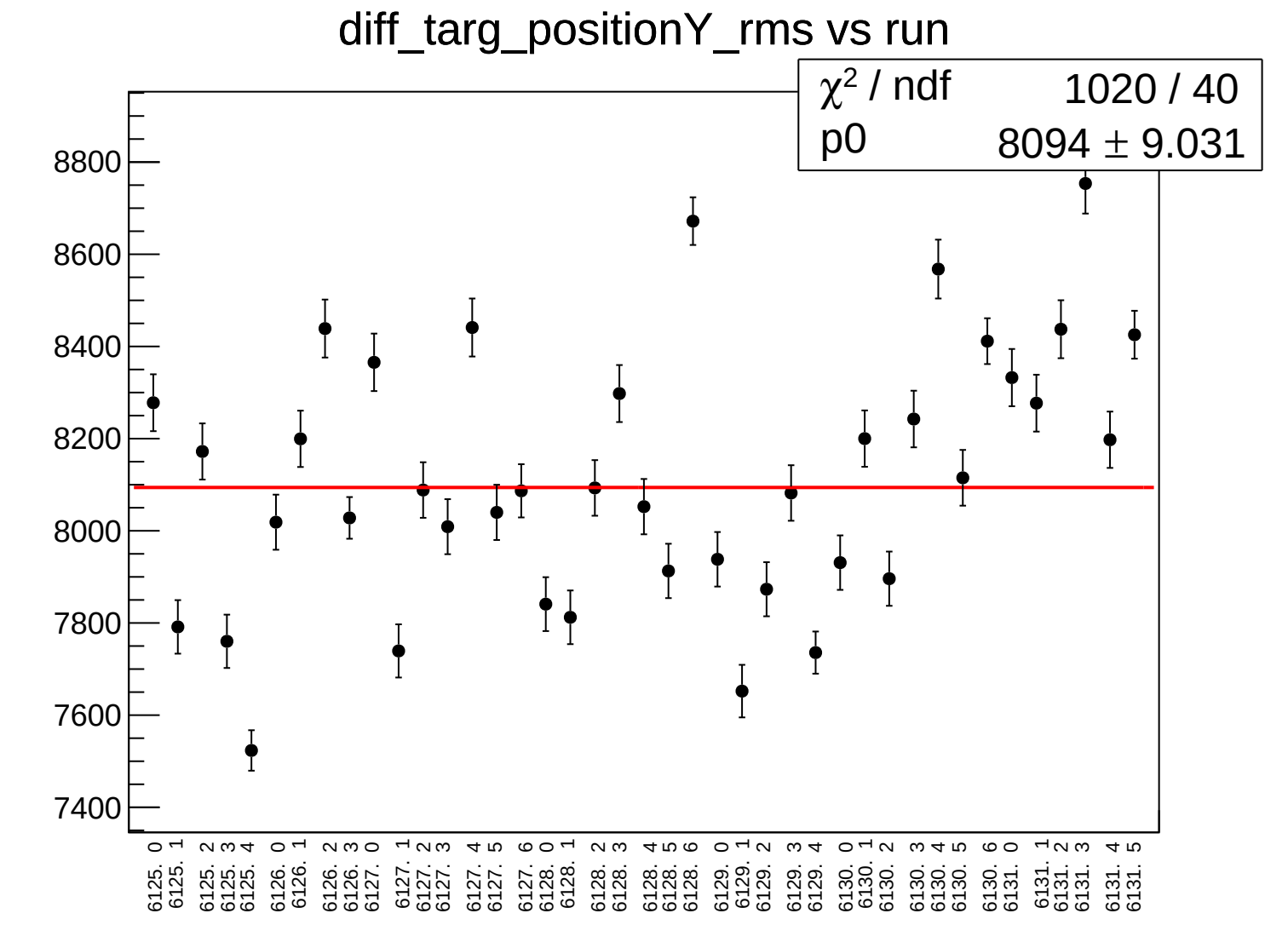

diff_targ_positionX_mean vs run
χ² / ndf 24.2 / 40
p0 −15.72 ± 18.15
pull
Entries 41
Mean −1397
Std Dev 0

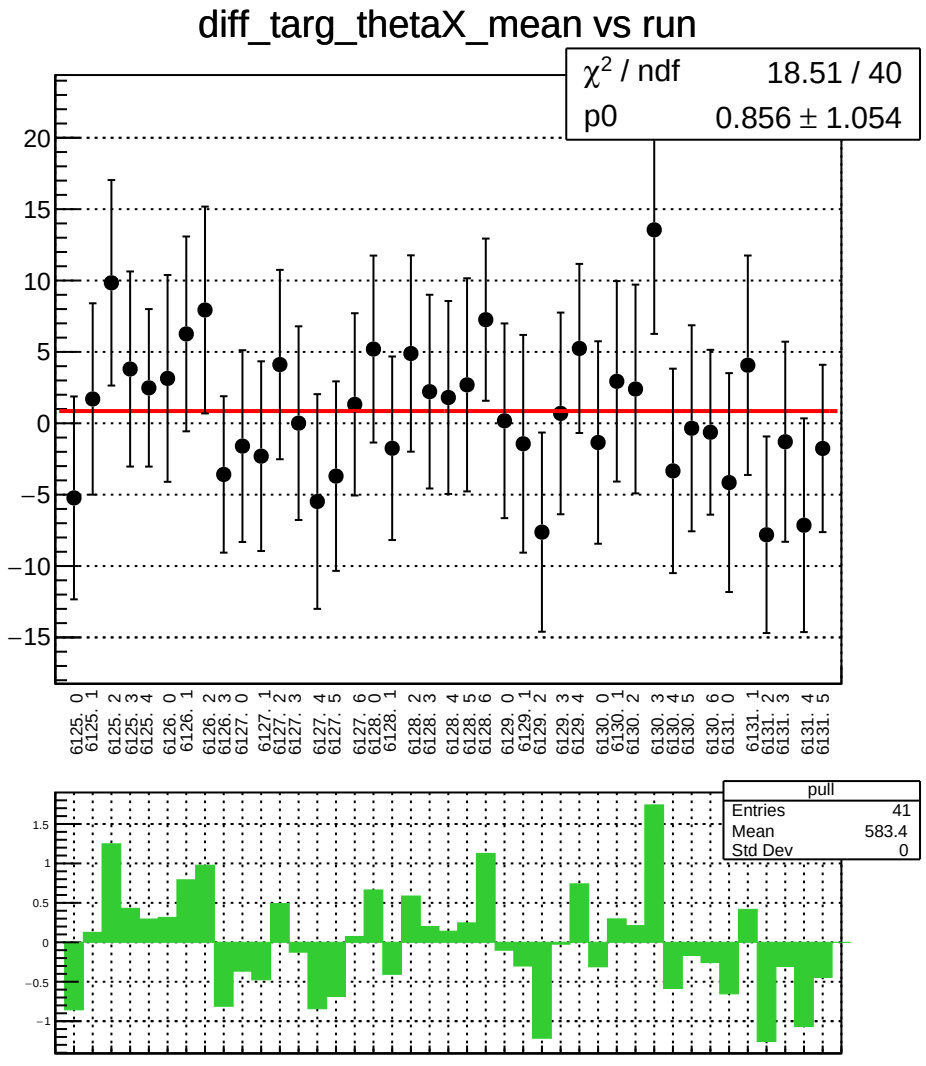

pull1D
Entries 41
Mean −0.001765
Std Dev 0.7683

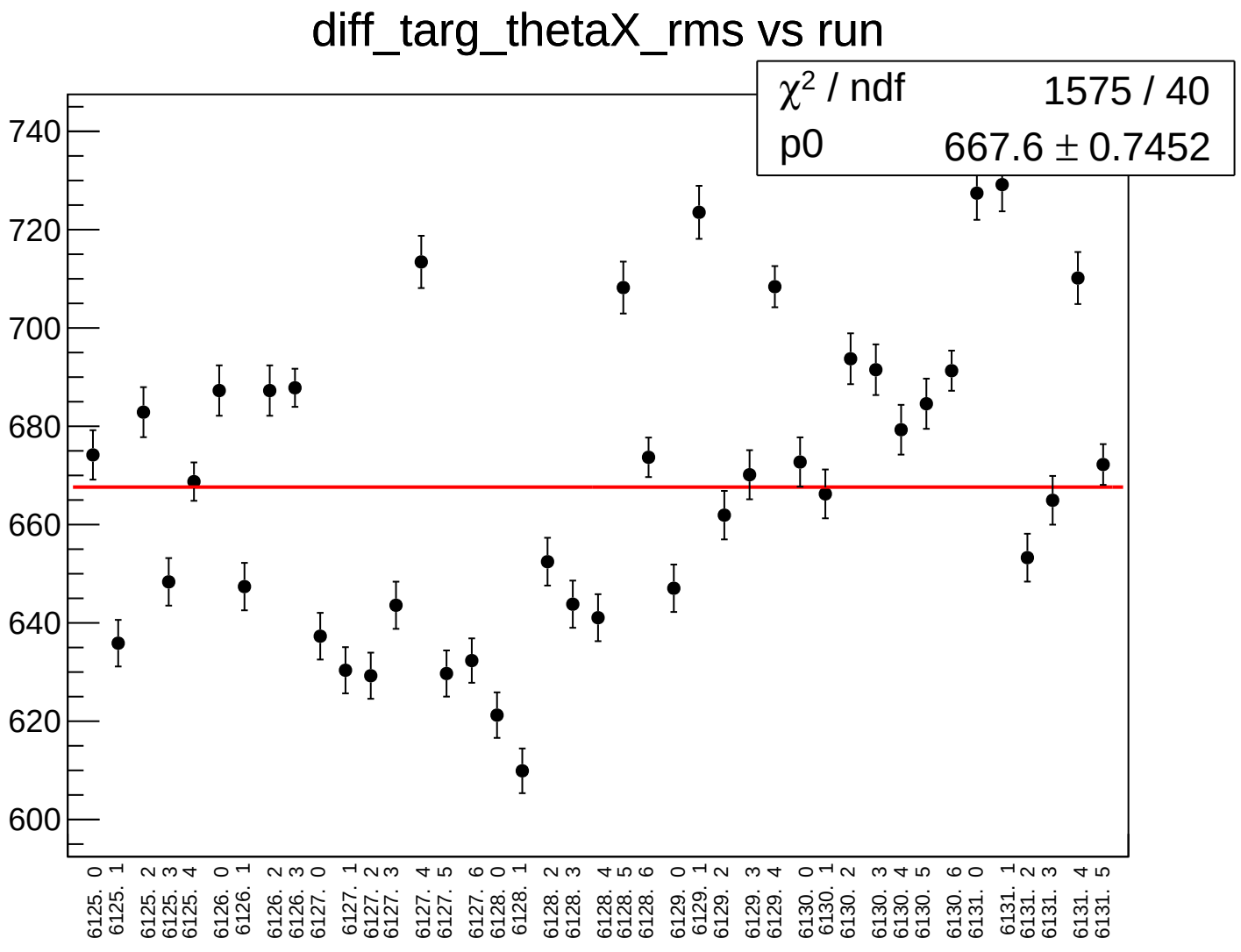

diff_targ_positionX_rms vs run
χ² / ndf 2515 / 40
p0 1.149e+04 ± 12.84
13000
12500
12000
11500
11000
10500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

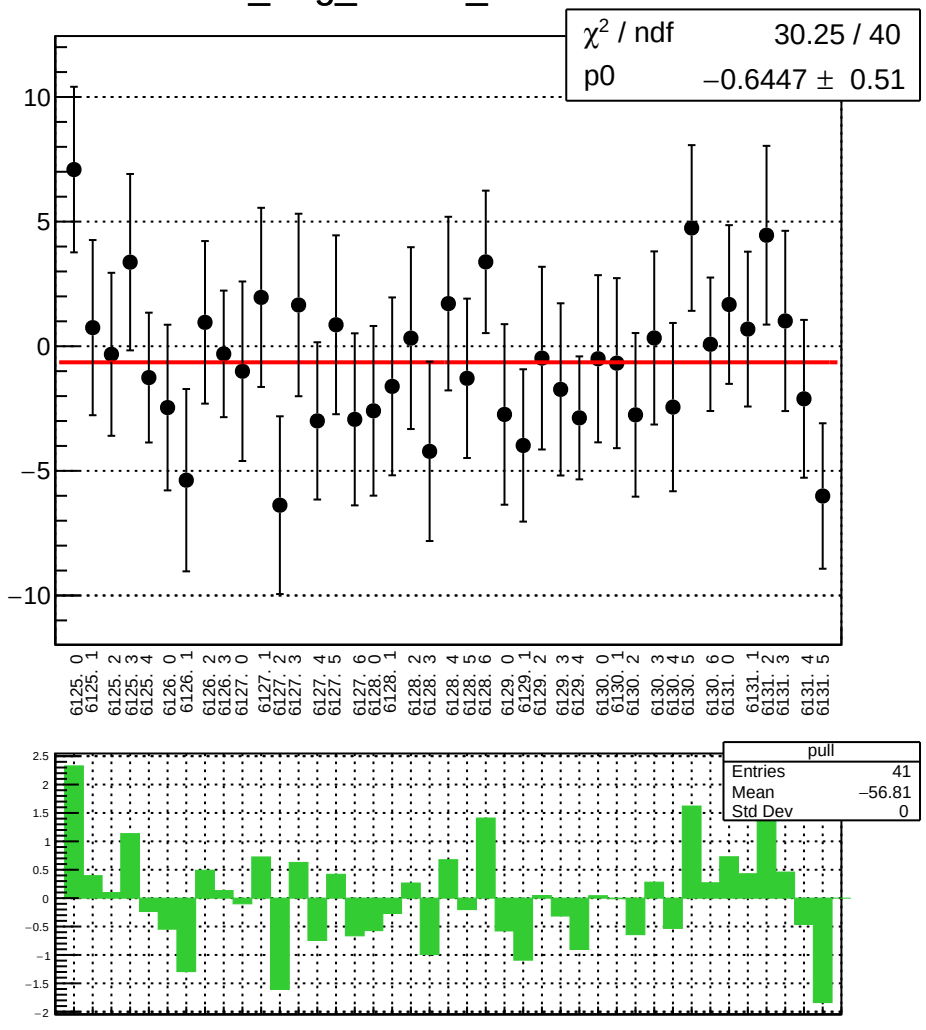

diff_targ_positionY_mean vs run
χ² / ndf 56.57 / 40
p0 −4.681± 12.77
pull
Entries 41
Mean −34.24
Std Dev 0

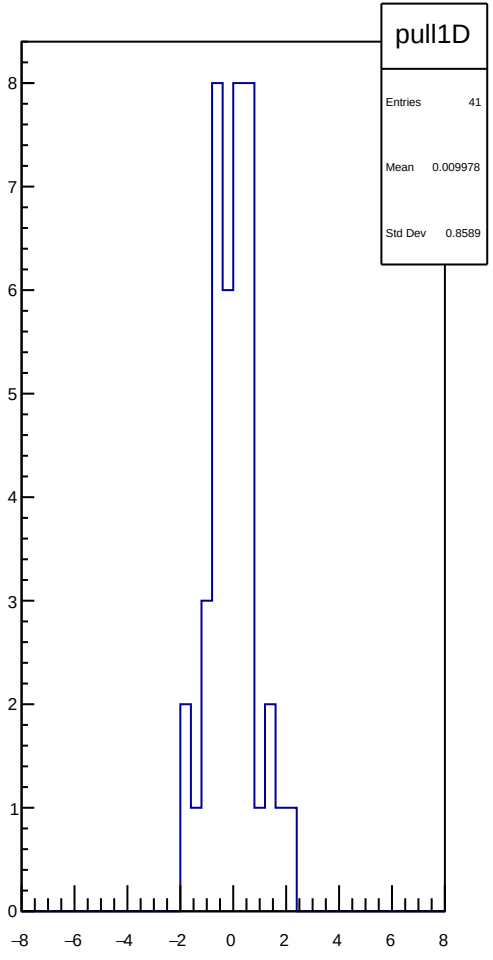

pull1D
Entries 41
Mean −0.03702
Std Dev 1.174

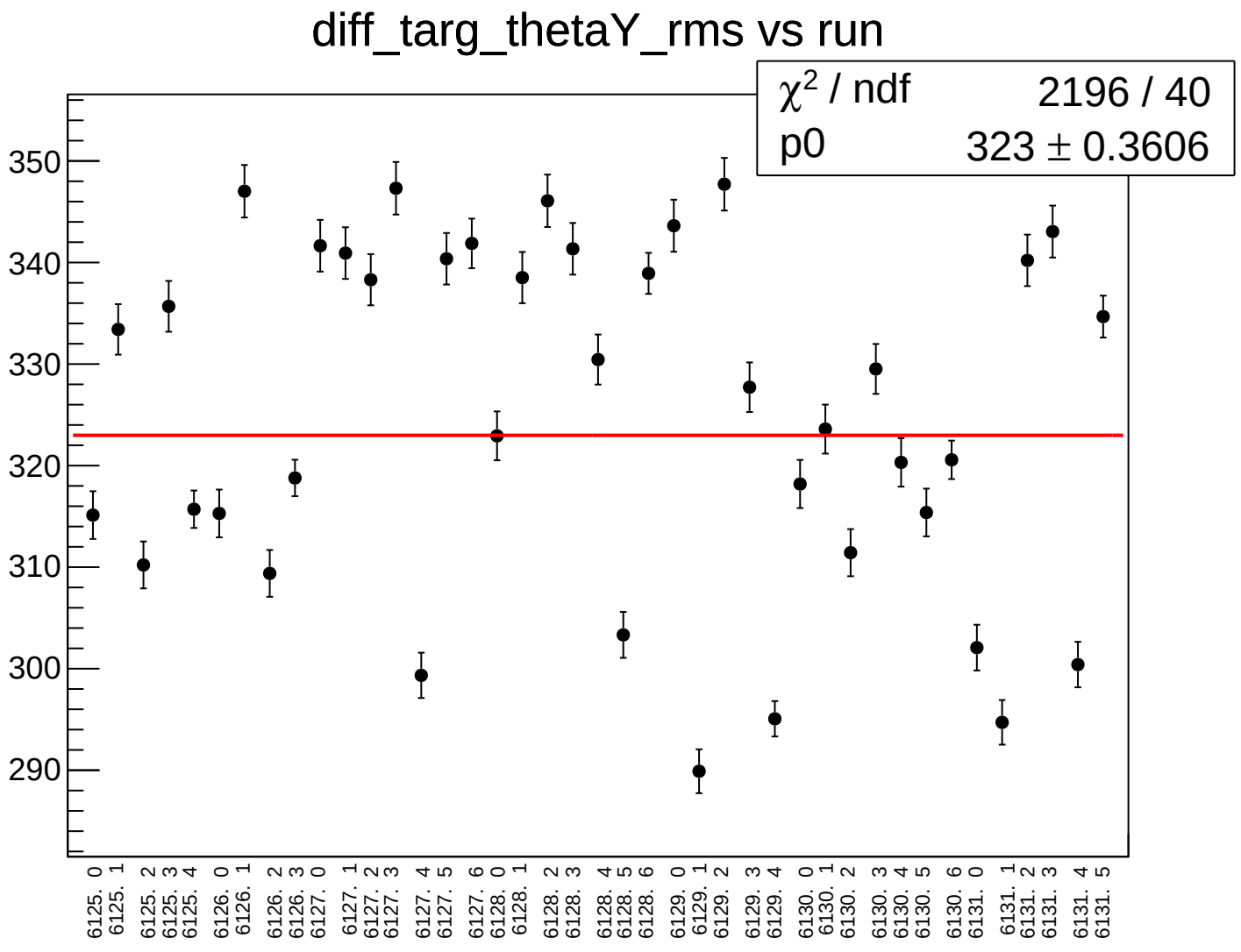

diff_targ_positionY_rms vs run
χ² / ndf 1020 / 40
p0 8094 ± 9.031
8800
8600
8400
8200
8000
7800
7600
7400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

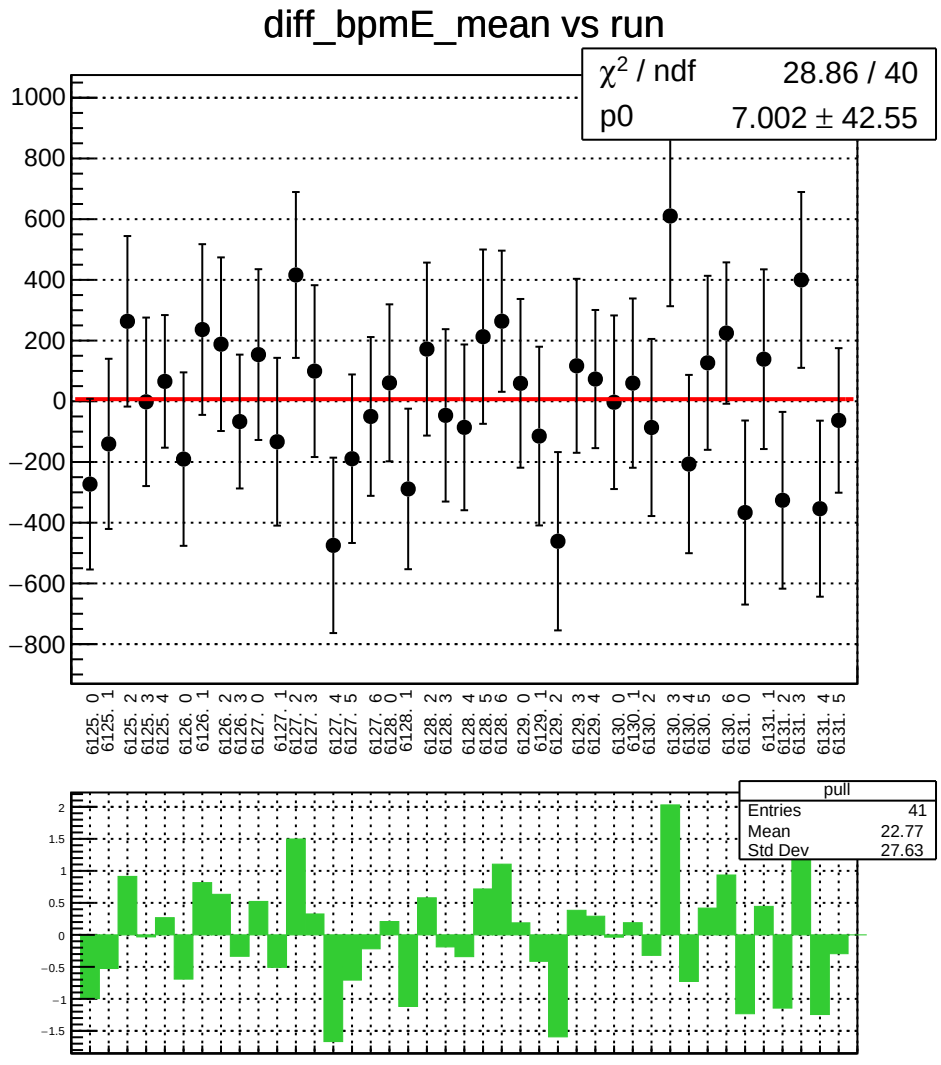

diff_targ_thetaX_mean vs run
χ² / ndf 18.51 / 40
p0 0.856 ± 1.054
pull
Entries 41
Mean 583.4
Std Dev 0
pull1D
Entries 41
Mean −0.003338
Std Dev 0.6718

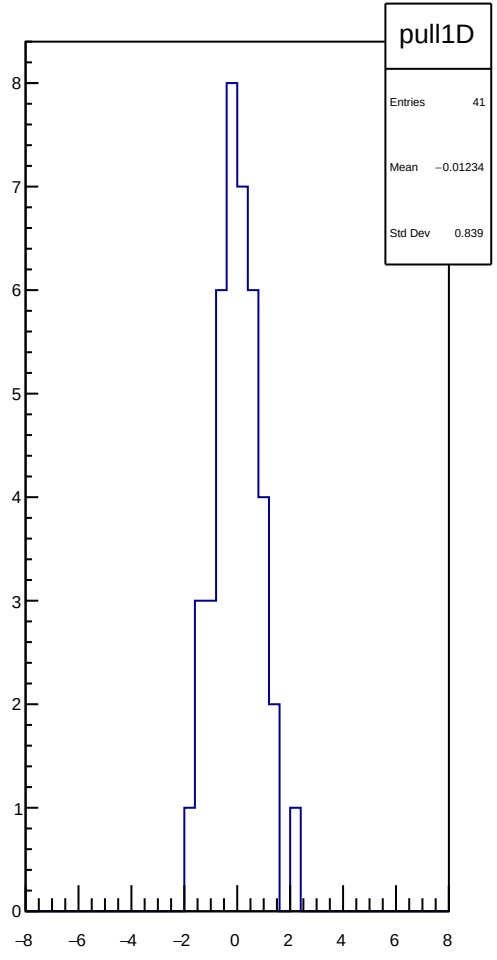

diff_targ_thetaX_rms vs run
χ² / ndf 1575 / 40
p0 667.6 ± 0.7452
740
720
700
680
660
640
620
600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

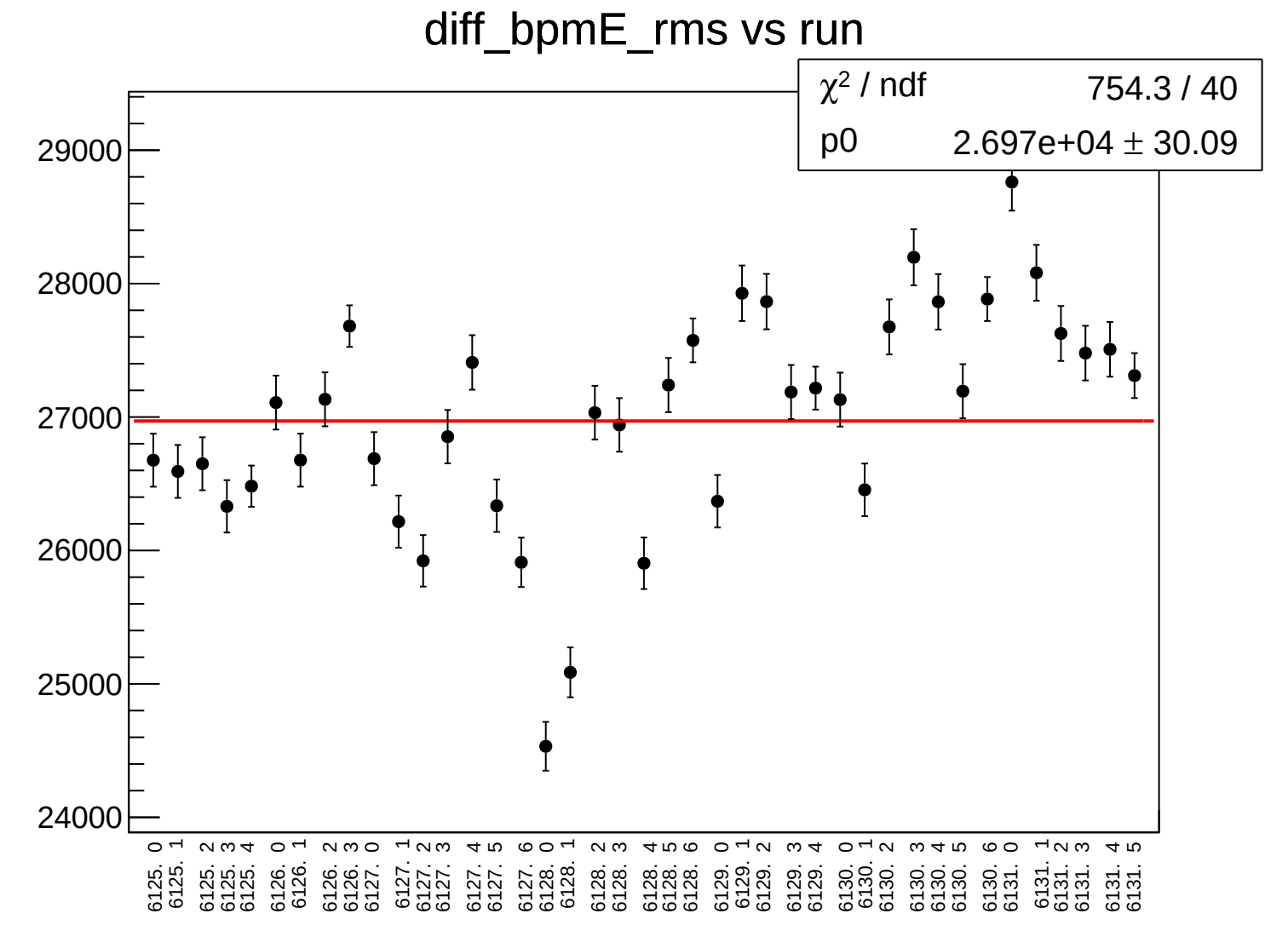

diff_targ_thetaY_mean vs run
χ² / ndf 30.25 / 40
p0 −0.6447 ± 0.51
10
5
0
−5
−10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −56.81
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

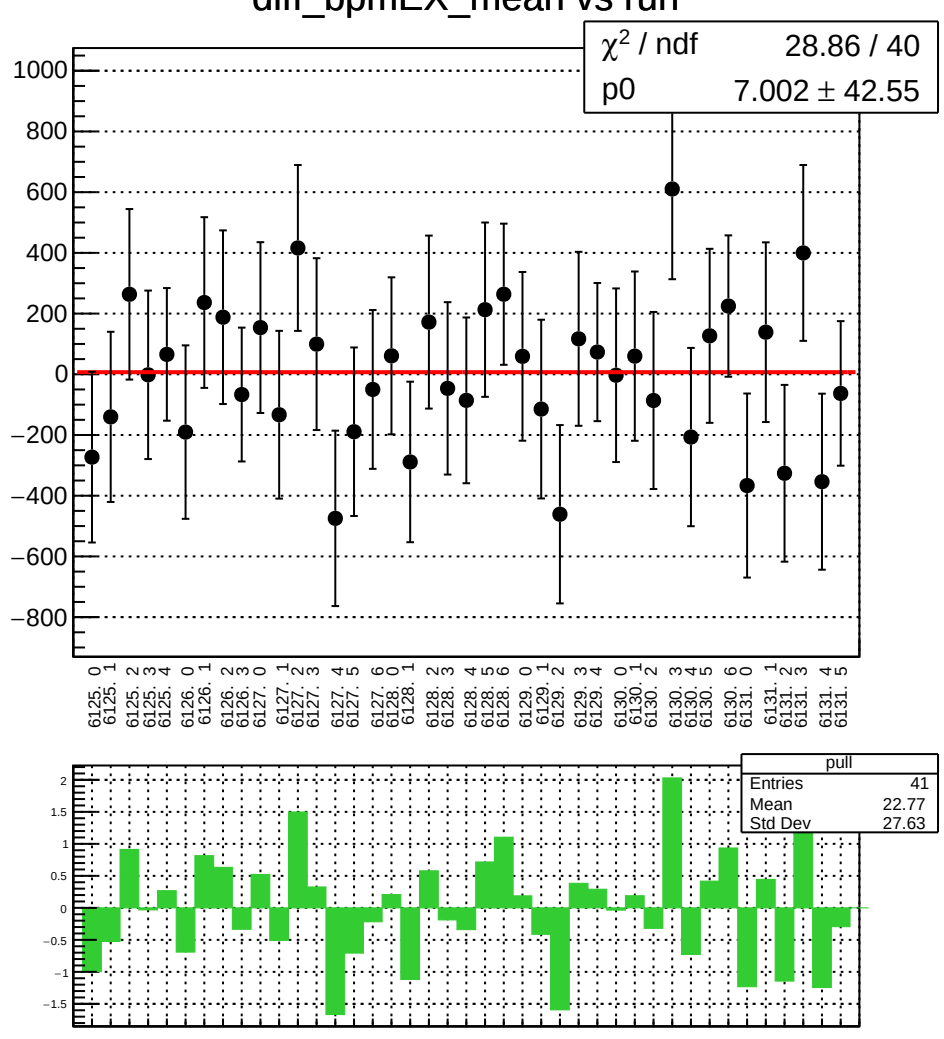

pull1D
Entries 41
Mean 0.009978
Std Dev 0.8589
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

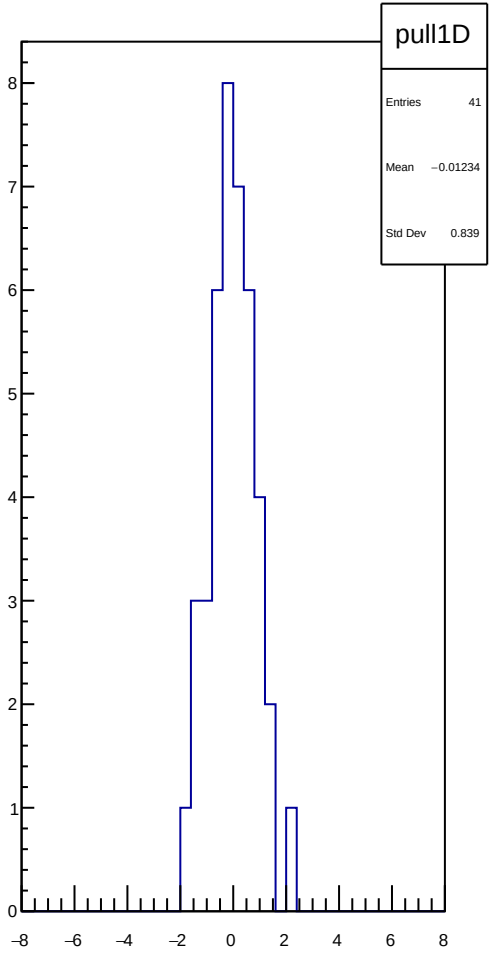

diff_targ_thetaY_rms vs run
χ² / ndf 2196 / 40
p0 323 ± 0.3606
350
340
330
320
310
300
290
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

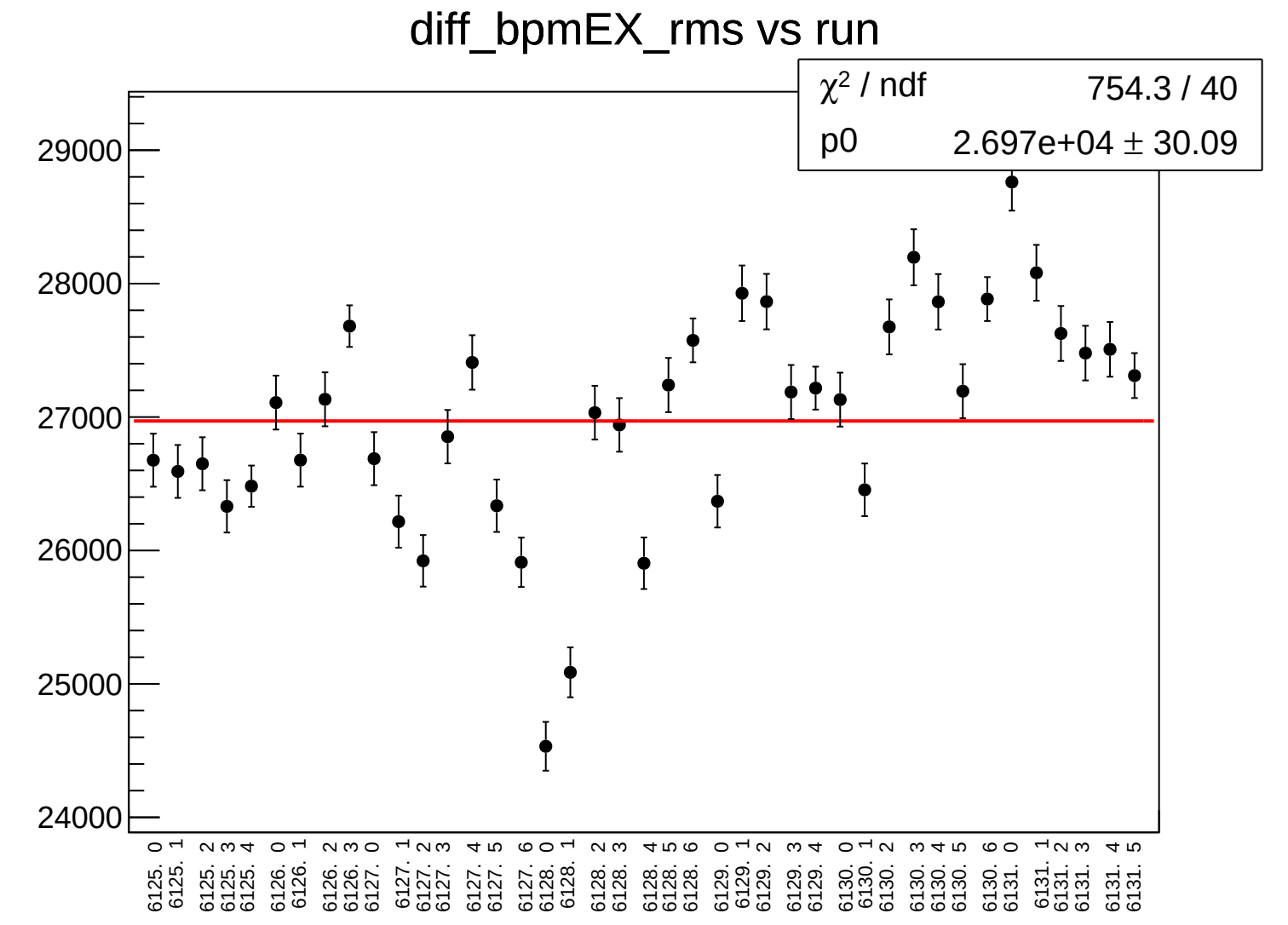

diff_bpmE_mean vs run
χ² / ndf 28.86 / 40
p0 7.002 ± 42.55
1000
800
600
400
200
0
−200
−400
−600
−800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 22.77
Std Dev 27.63
2
1.5
1
0.5
0
−0.5
−1
−1.5

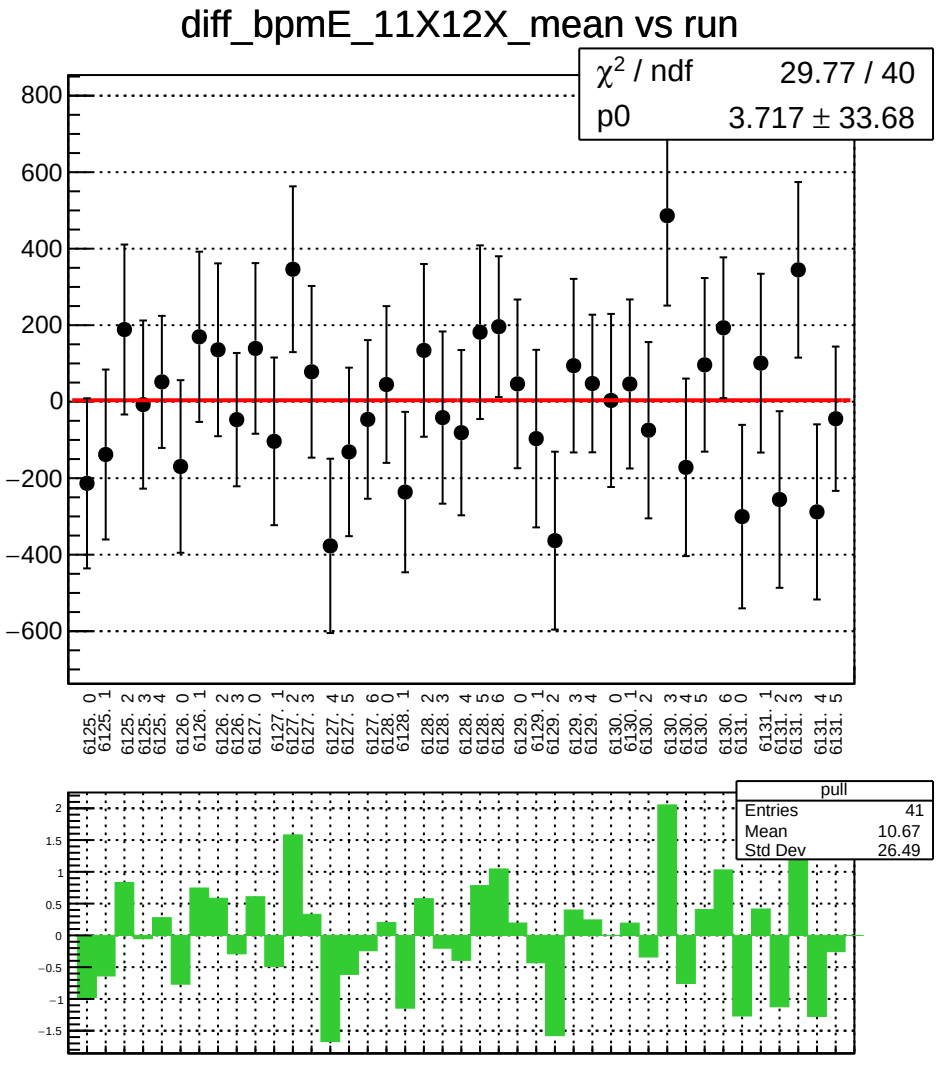

pull1D
Entries 41
Mean −0.01234
Std Dev 0.839
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

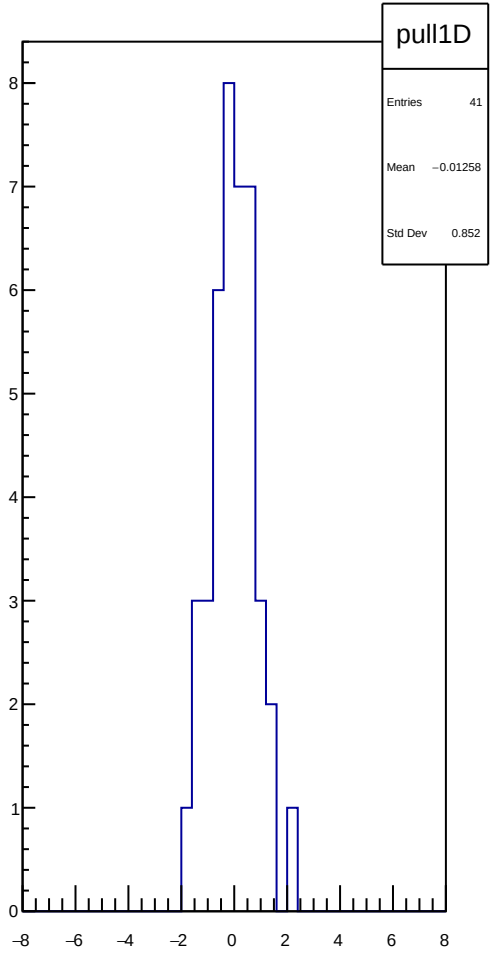

diff_bpmE_rms vs run
χ² / ndf 754.3 / 40
p0 2.697e+04 ± 30.09
29000
28000
27000
26000
25000
24000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

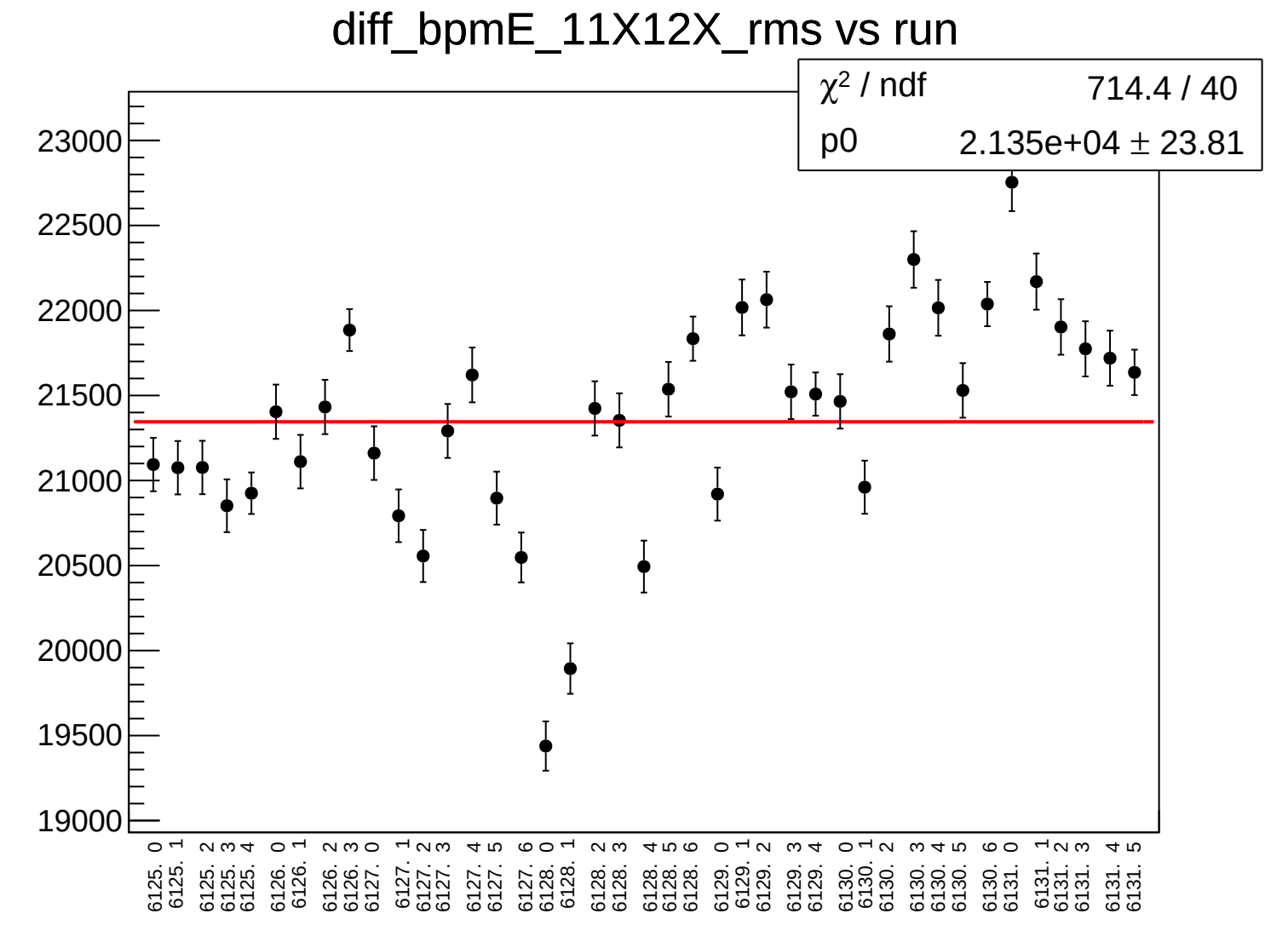

diff_bpmEX_mean vs run
χ² / ndf 28.86 / 40
p0 7.002 ± 42.55
pull
Entries 41
Mean 22.77
Std Dev 27.63

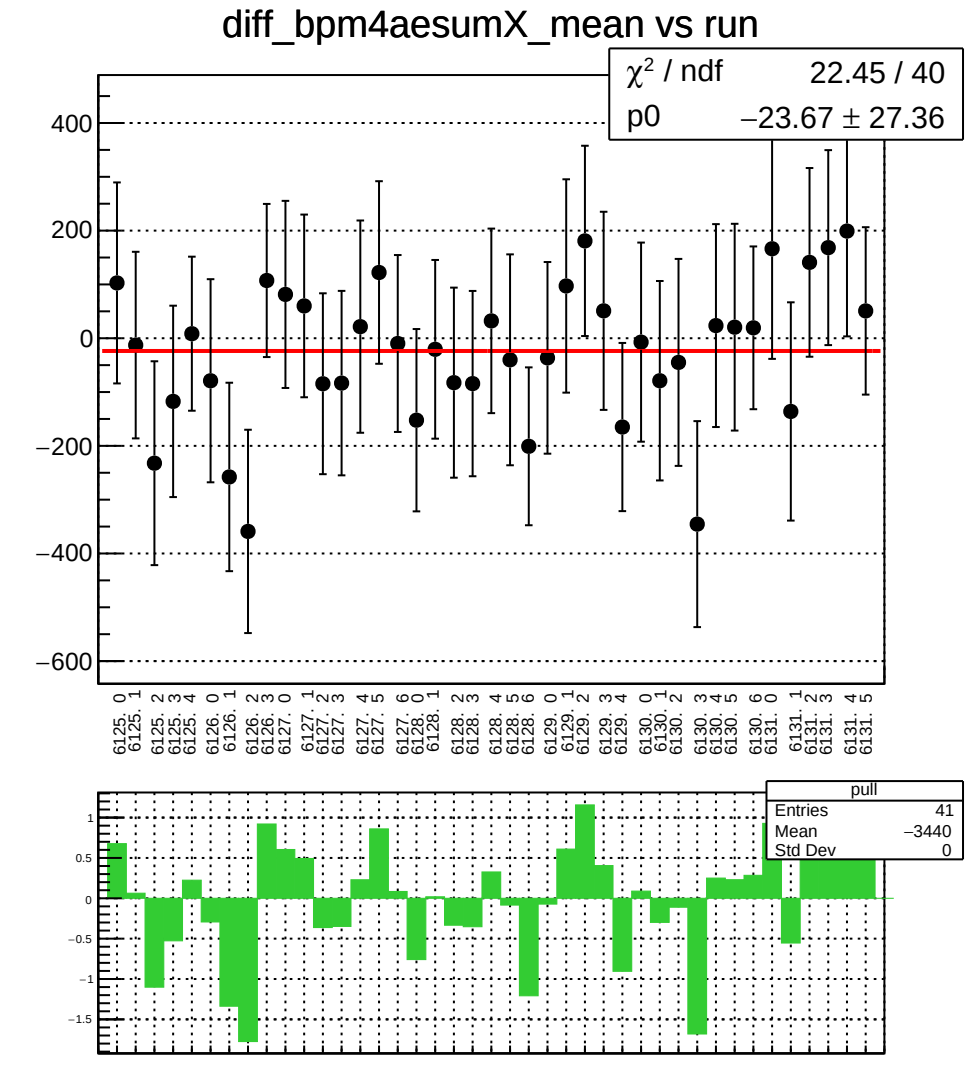

pull1D
Entries 41
Mean −0.01234
Std Dev 0.839

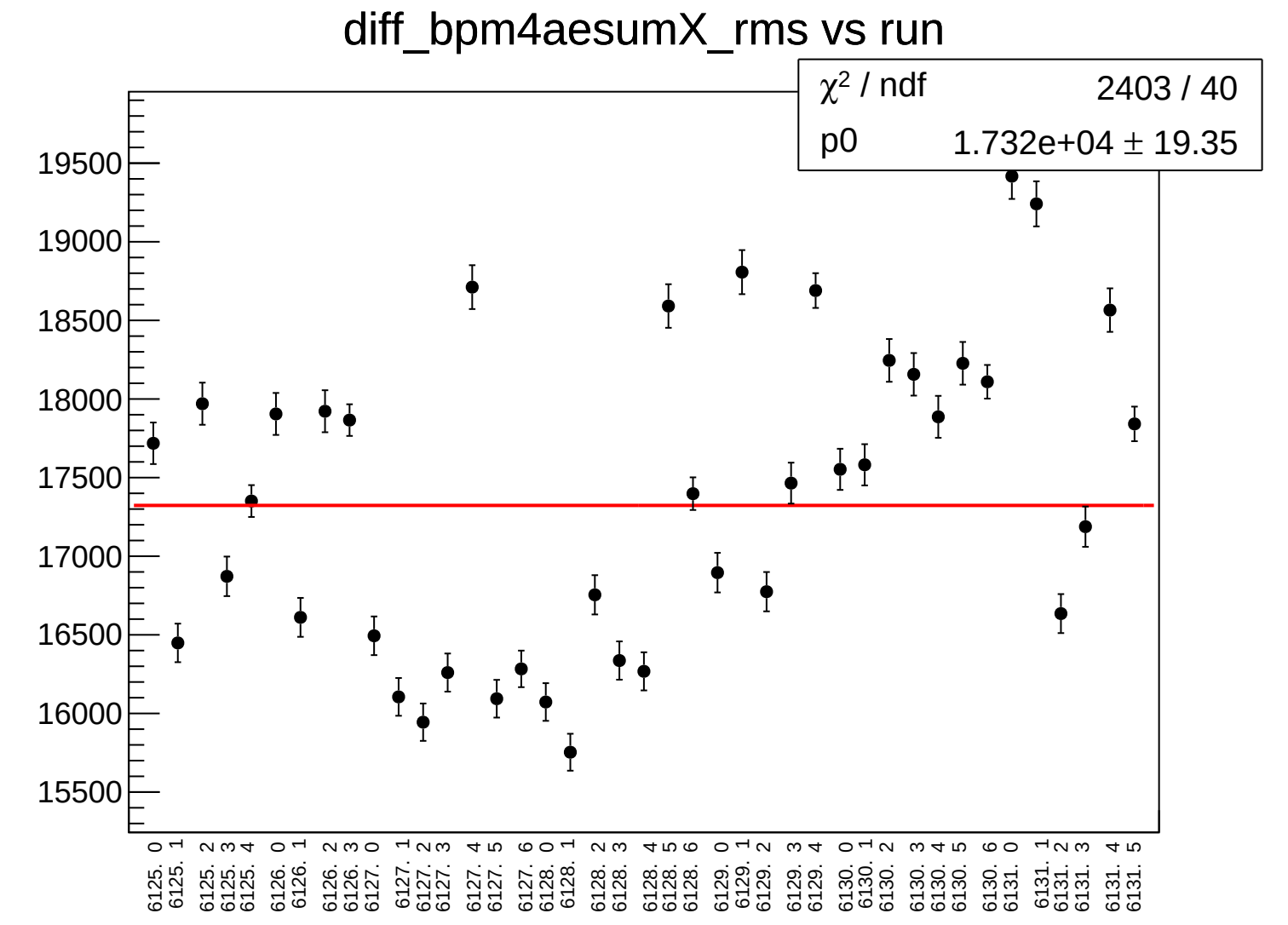

diff_bpmEX_rms vs run
χ² / ndf 754.3 / 40
p0 2.697e+04 ± 30.09
29000
28000
27000
26000
25000
24000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

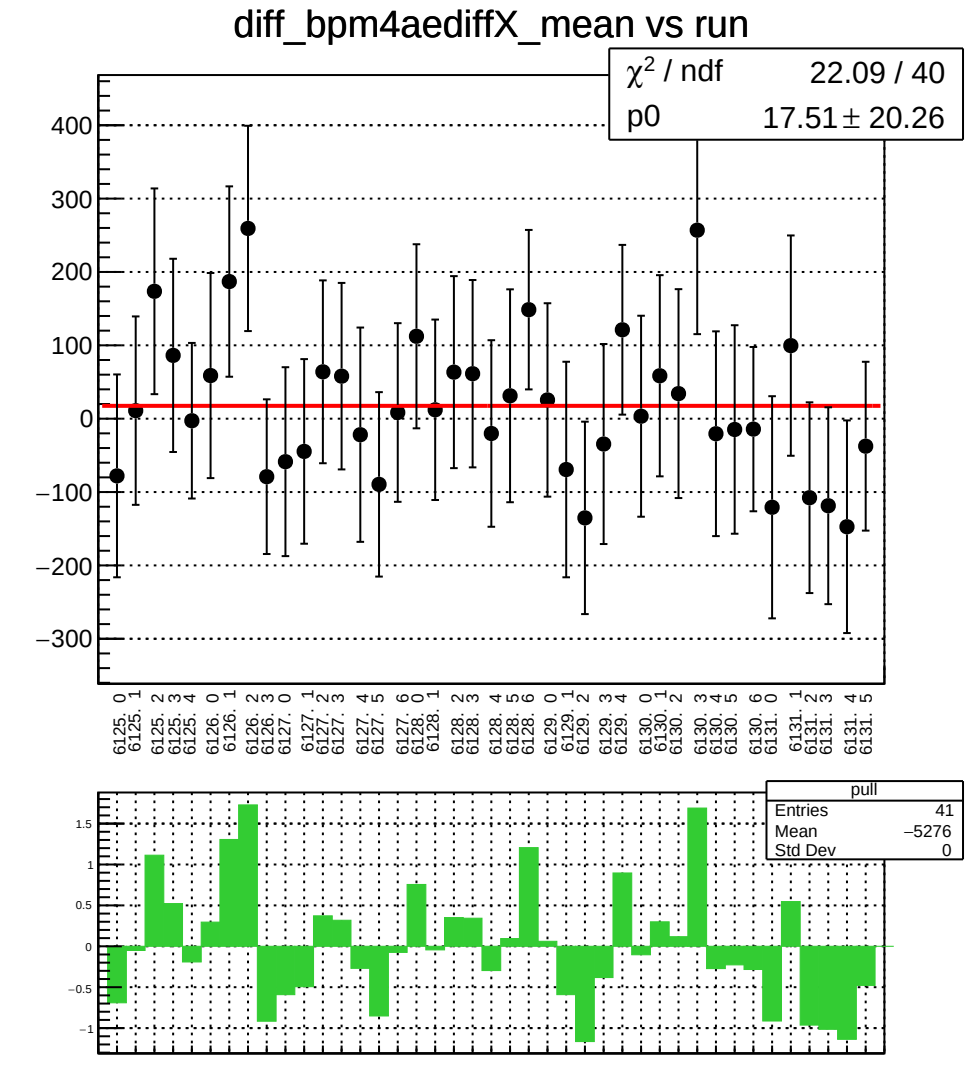

diff_bpmE_11X12X_mean vs run
χ² / ndf 29.77 / 40
p0 3.717 ± 33.68
pull
Entries 41
Mean 10.67
Std Dev 26.49

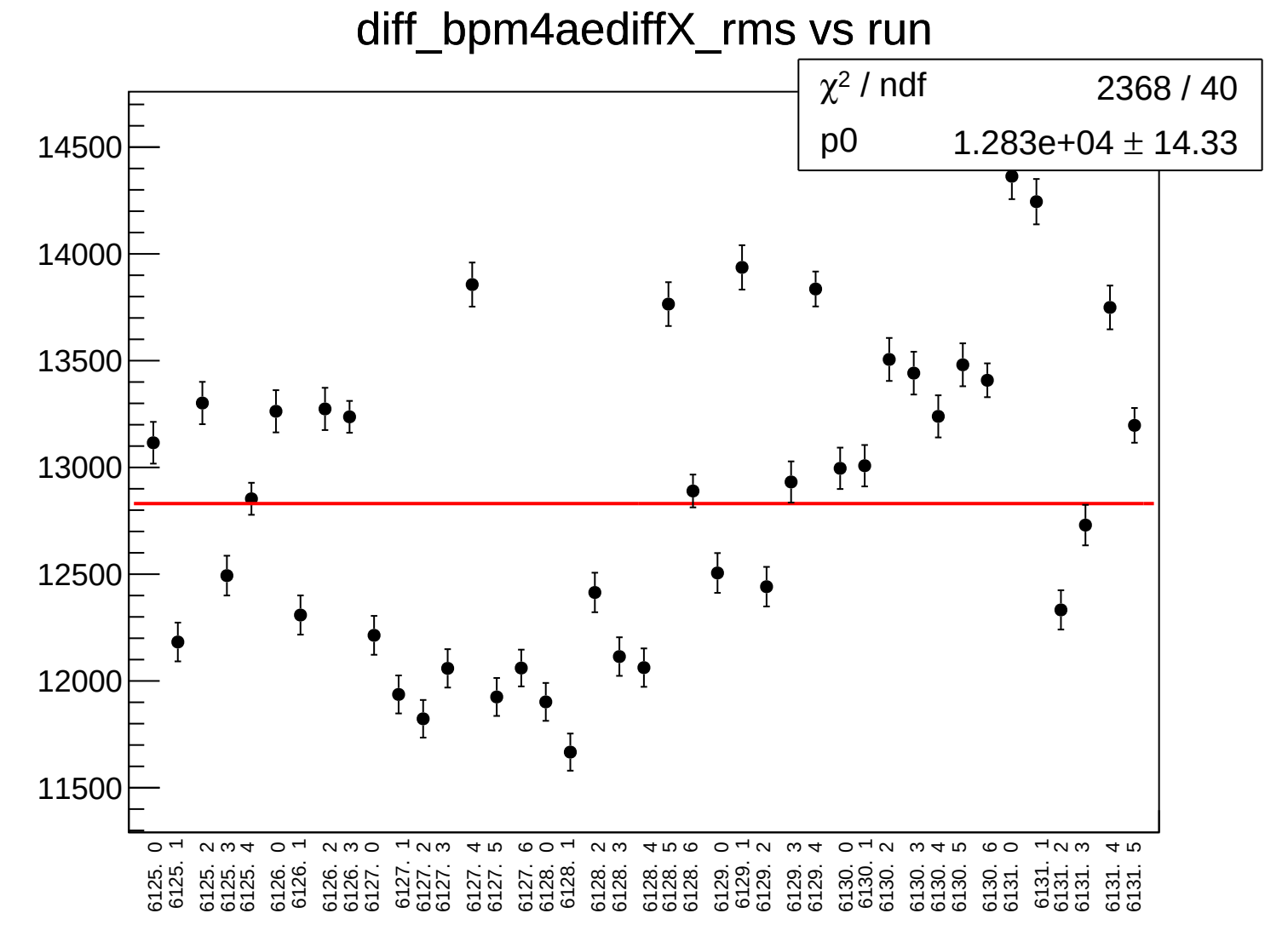

pull1D
Entries 41
Mean −0.01258
Std Dev 0.852

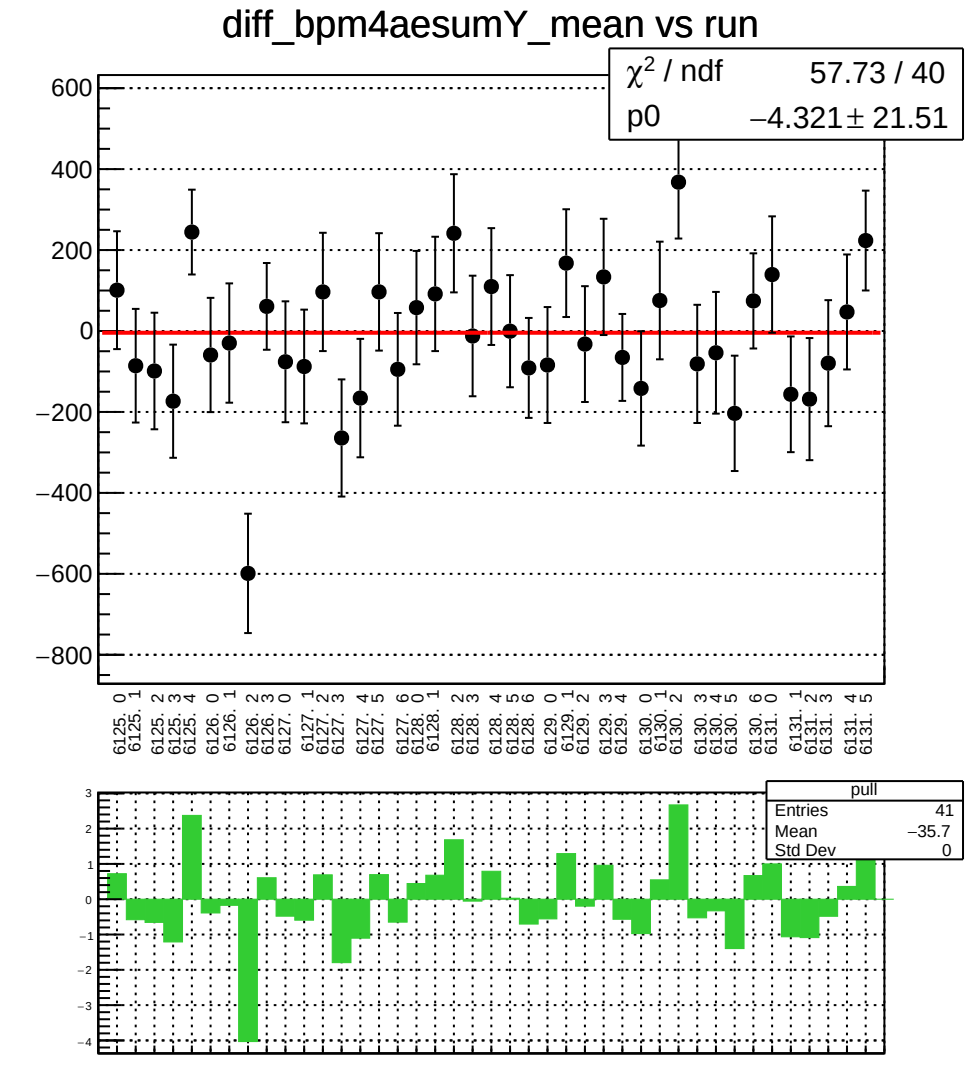

diff_bpmE_11X12X_rms vs run
χ² / ndf 714.4 / 40
p0 2.135e+04 ± 23.81
23000
22500
22000
21500
21000
20500
20000
19500
19000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

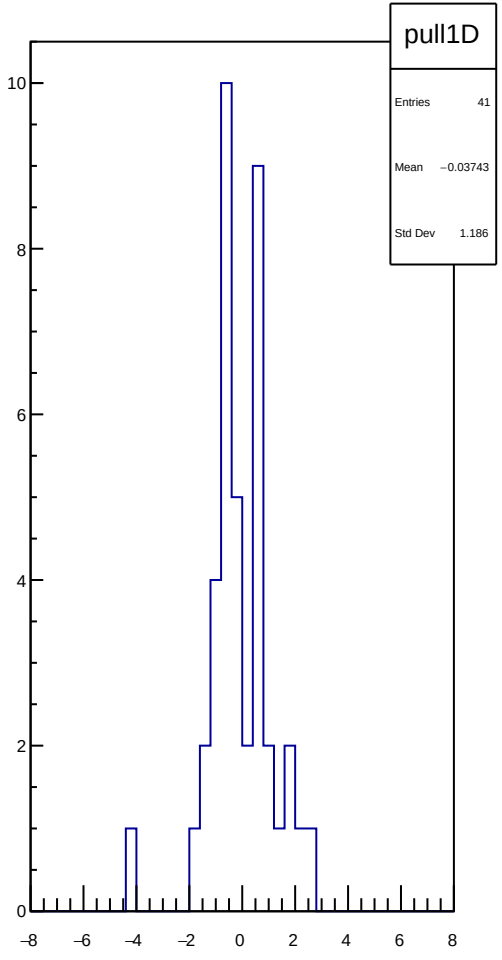

diff_bpm4aesumX_mean vs run
χ² / ndf 22.45 / 40
p0 −23.67 ± 27.36
400
200
0
−200
−400
−600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −3440
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.0006922
Std Dev 0.7399
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

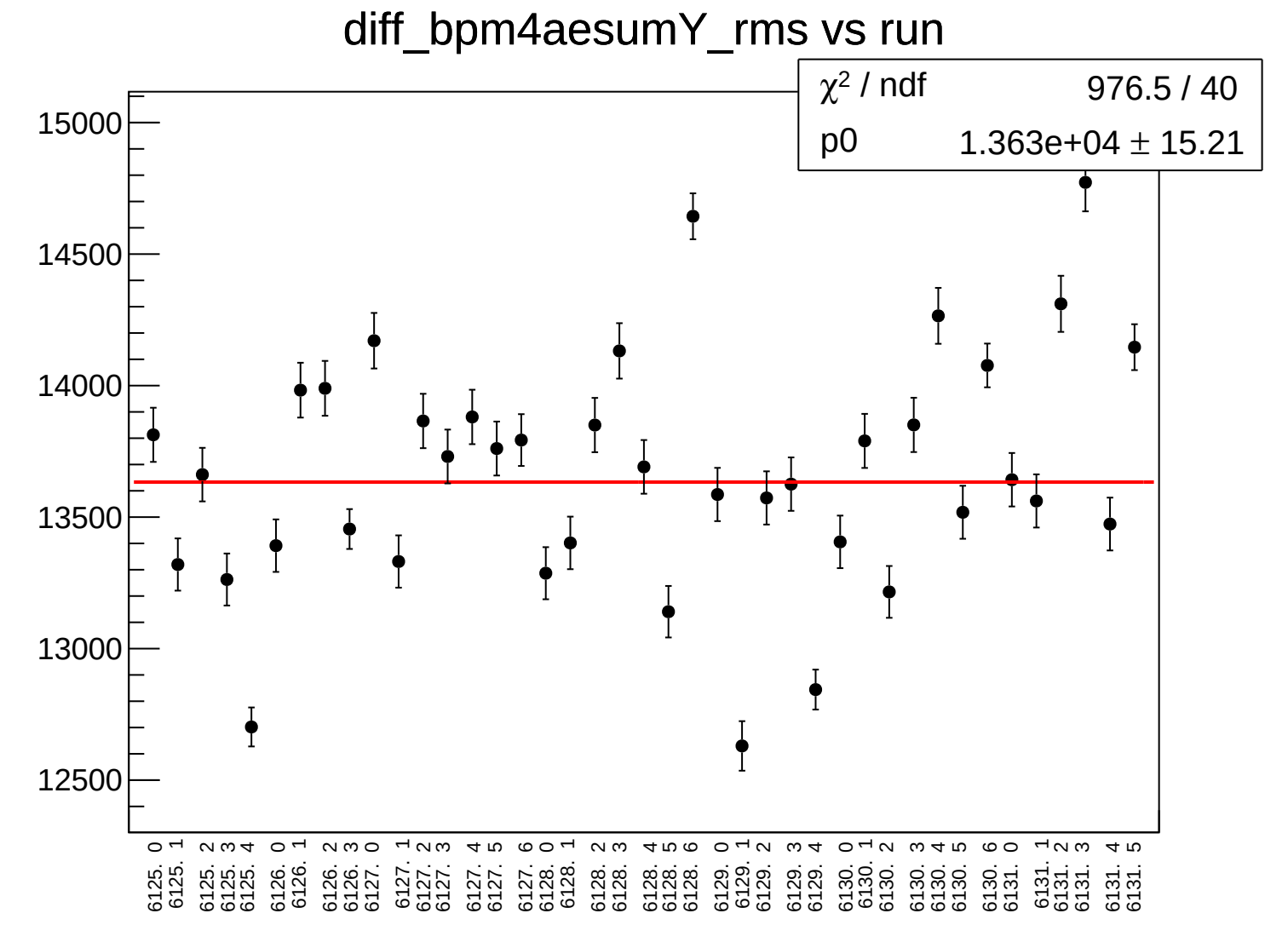

diff_bpm4aesumX_rms vs run
χ² / ndf 2403 / 40
p0 1.732e+04 ± 19.35
19500
19000
18500
18000
17500
17000
16500
16000
15500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

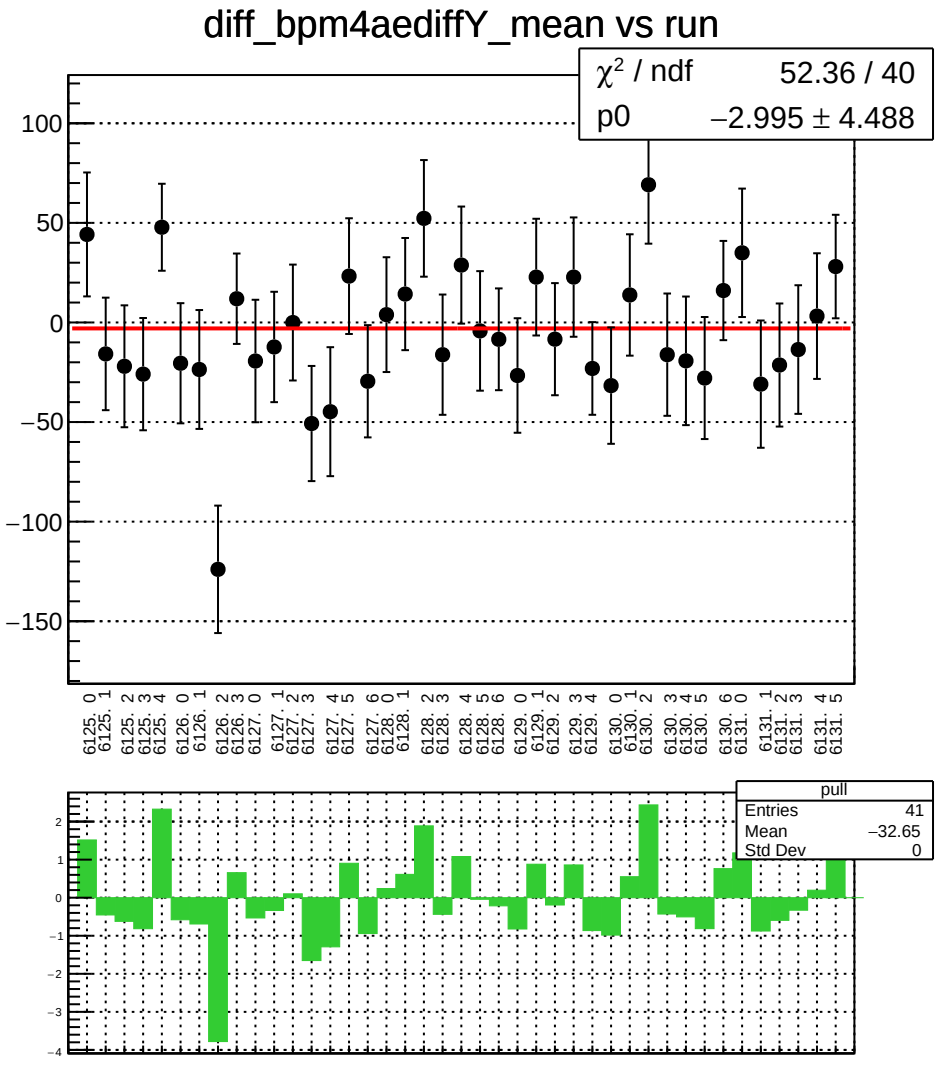

diff_bpm4aediffX_mean vs run
χ² / ndf 22.09 / 40
p0 17.51 ± 20.26
400
300
200
100
0
−100
−200
−300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −5276
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.0004473
Std Dev 0.7341
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

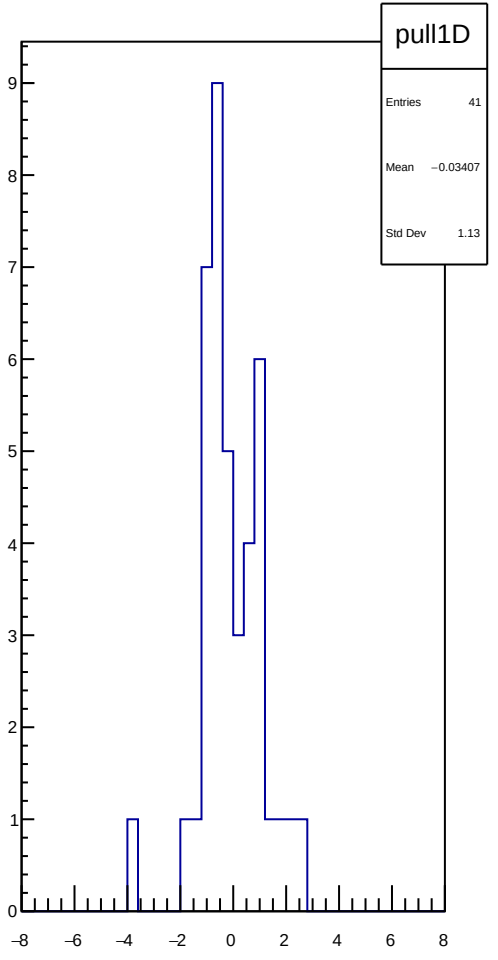

diff_bpm4aediffX_rms vs run
χ² / ndf 2368 / 40
p0 1.283e+04 ± 14.33
14500
14000
13500
13000
12500
12000
11500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

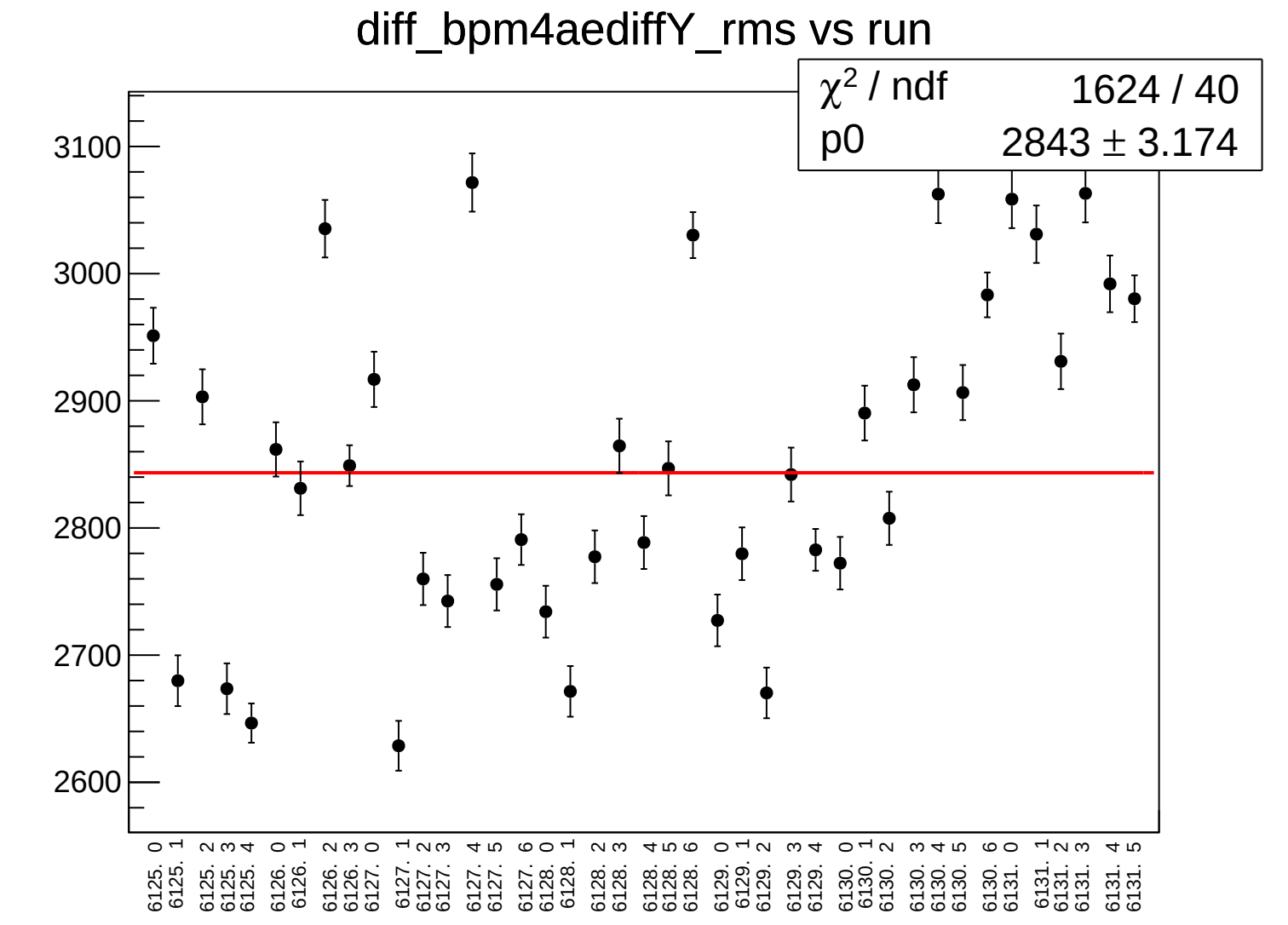

diff_bpm4aesumY_mean vs run
χ² / ndf 57.73 / 40
p0 −4.321 ± 21.51
pull
Entries 41
Mean −35.7
Std Dev 0

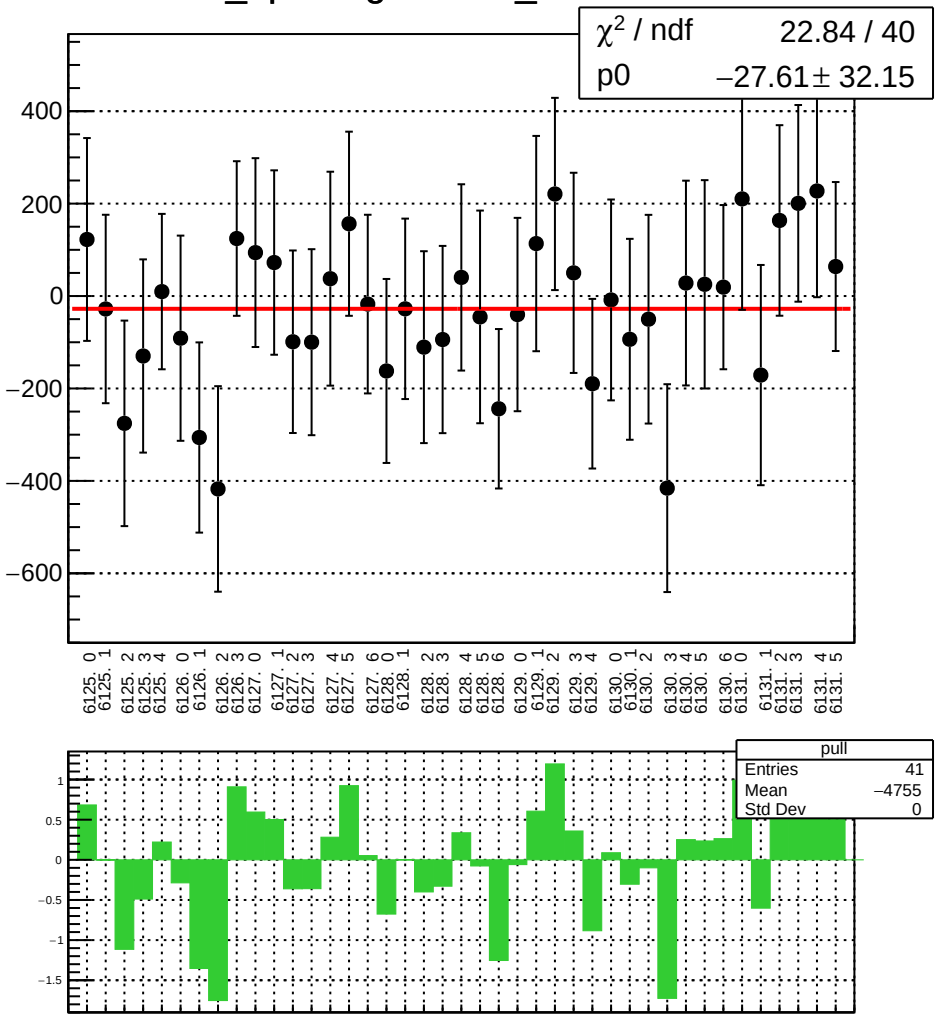

pull1D
Entries 41
Mean −0.03743
Std Dev 1.186

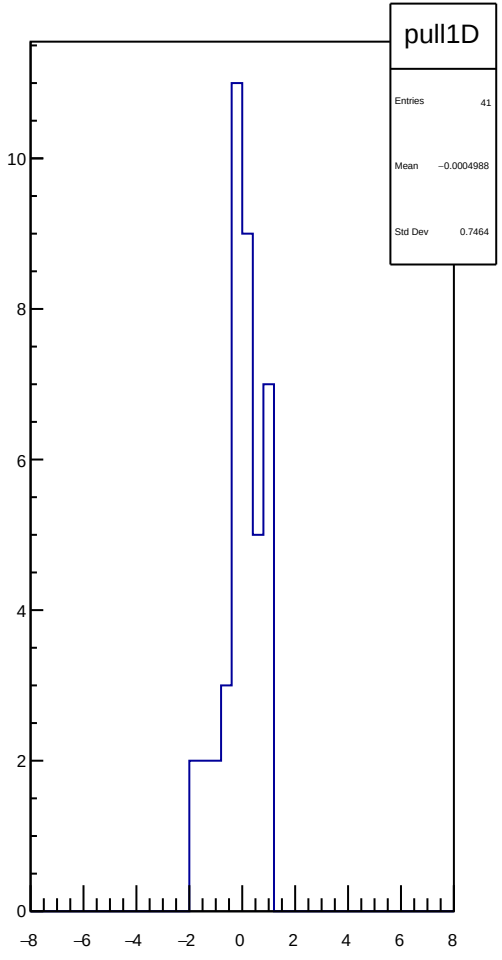

diff_bpm4aesumY_rms vs run
χ² / ndf 976.5 / 40
p0 1.363e+04 ± 15.21
15000
14500
14000
13500
13000
12500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

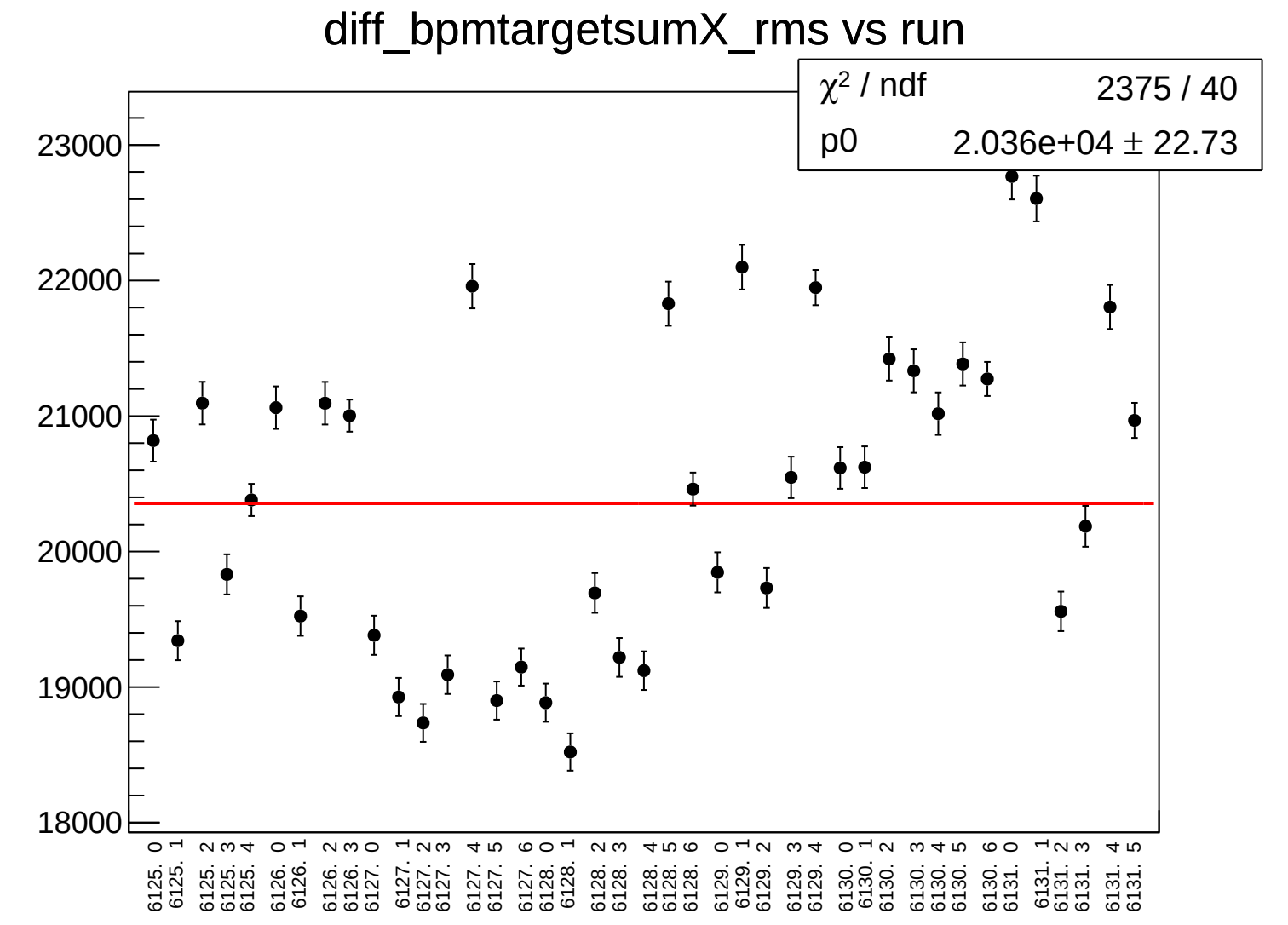

diff_bpm4aediffY_mean vs run
χ² / ndf 52.36 / 40
p0 −2.995 ± 4.488
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −32.65
Std Dev 0
2
1
0
−1
−2
−3
−4

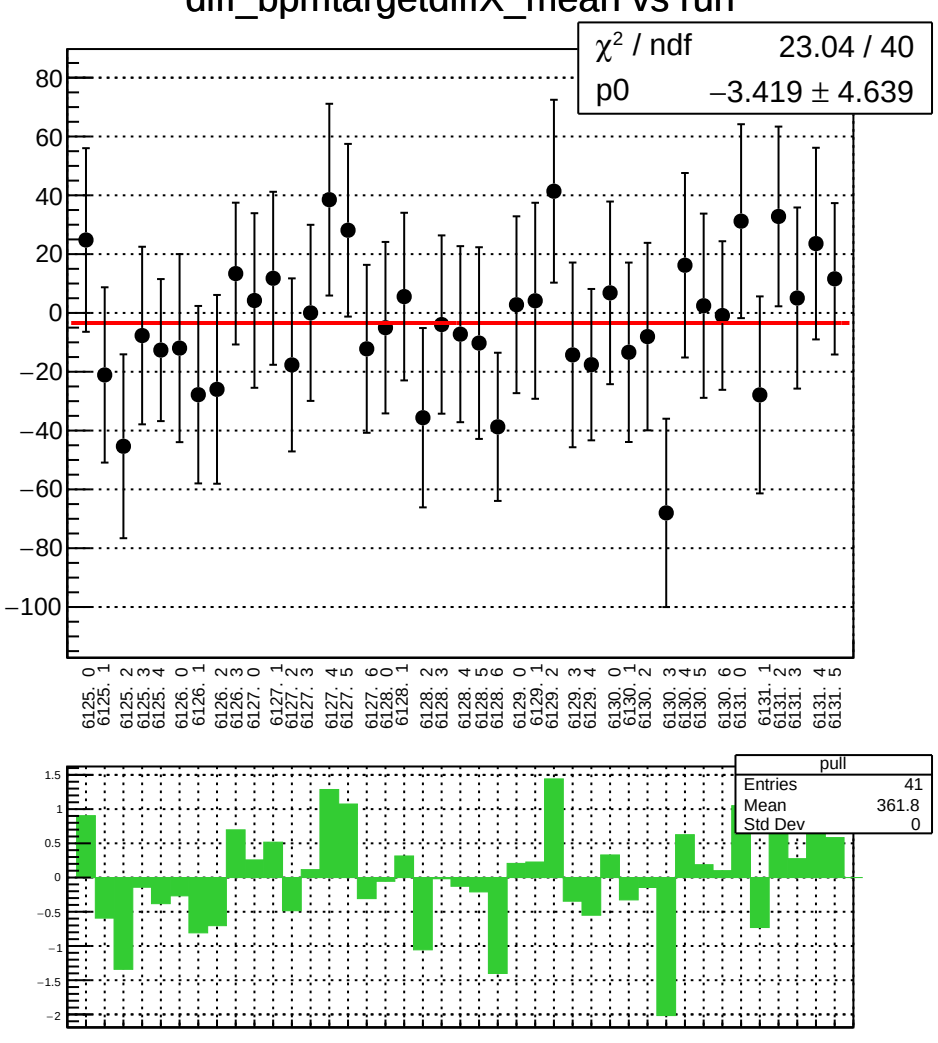

pull1D
Entries 41
Mean −0.03407
Std Dev 1.13
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

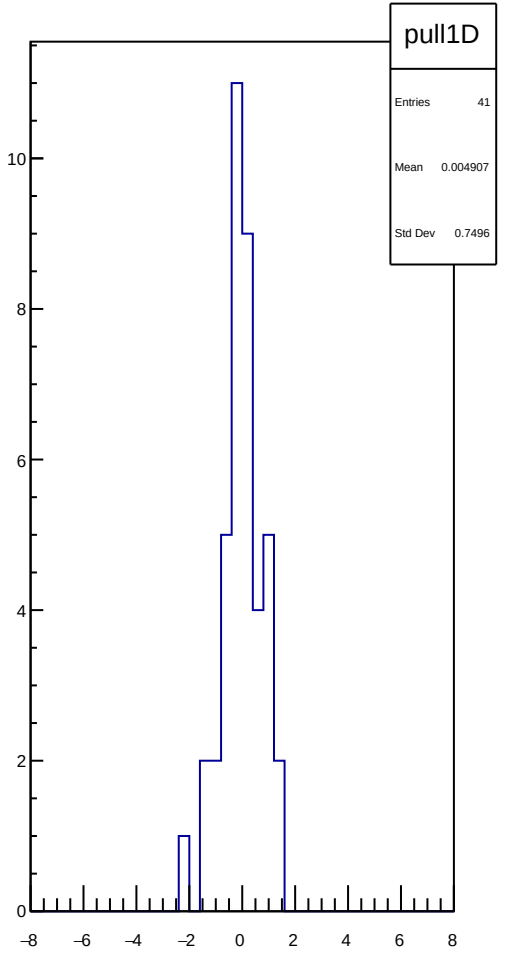

diff_bpm4aediffY_rms vs run
χ² / ndf 1624 / 40
p0 2843 ± 3.174
3100
3000
2900
2800
2700
2600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

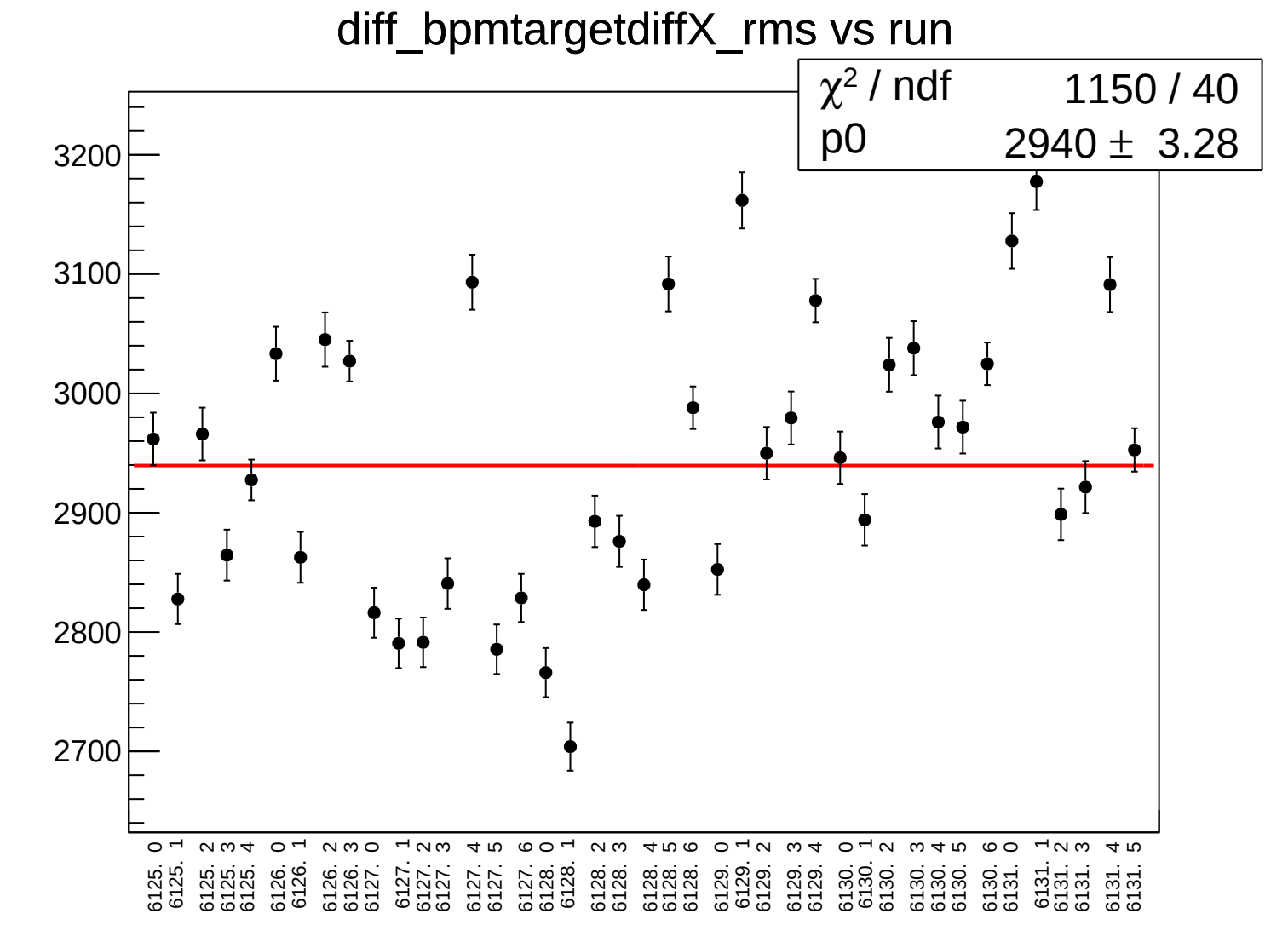

diff_bpmtargetsumX_mean vs run
χ² / ndf 22.84 / 40
p0 −27.61 ± 32.15
400
200
0
−200
−400
−600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −4755
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

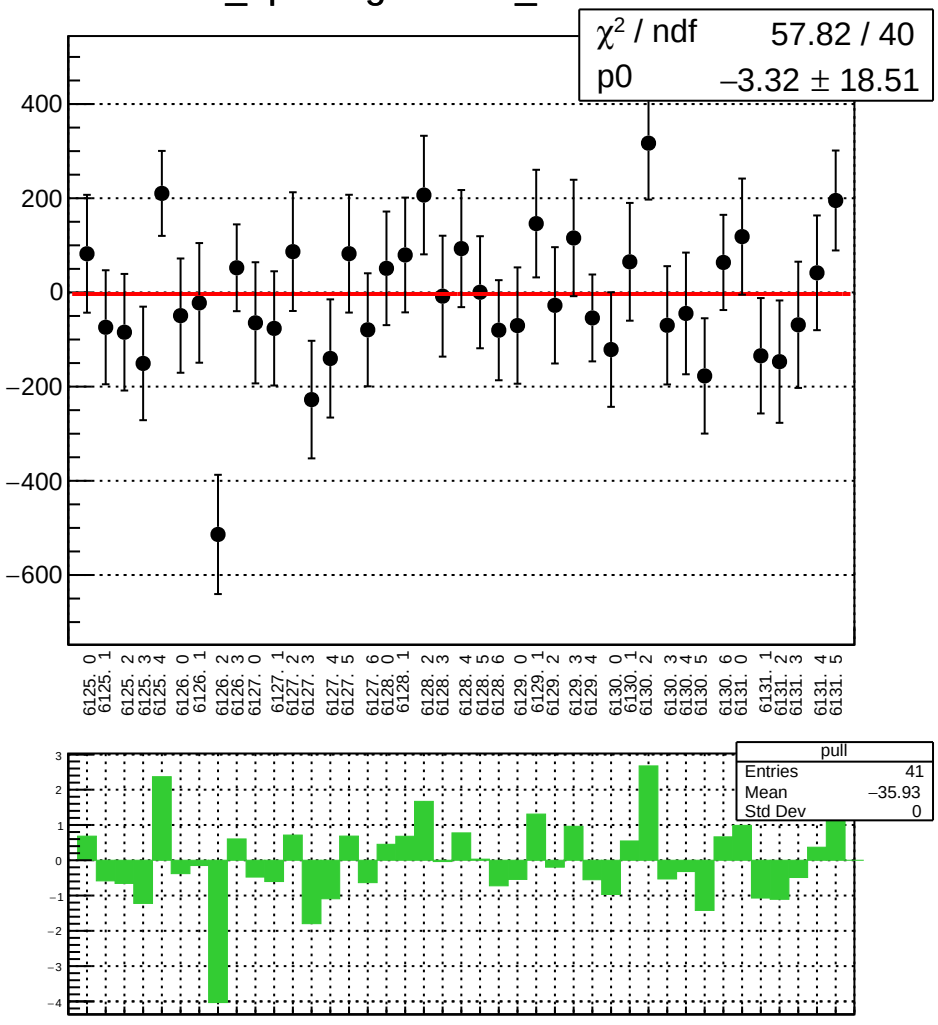

pull1D
Entries 41
Mean −0.0004988
Std Dev 0.7464
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

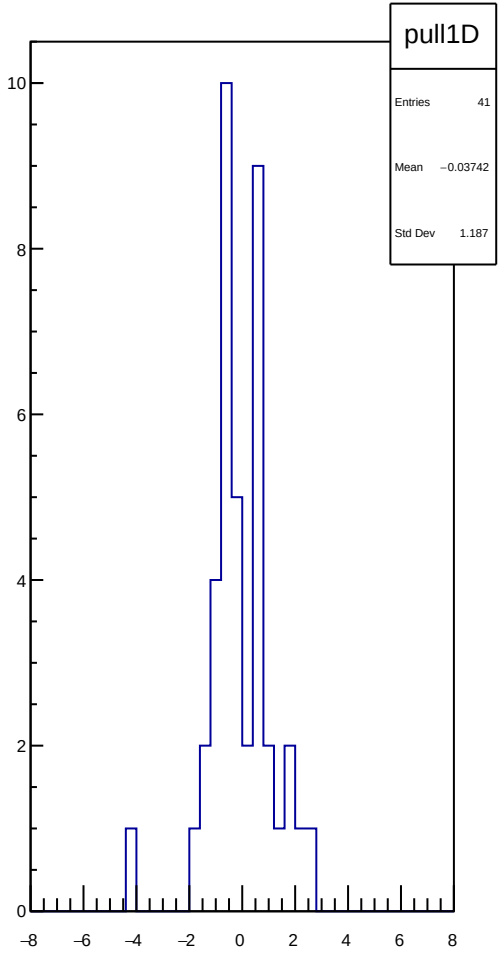

diff_bpmtargetsumX_rms vs run
χ² / ndf 2375 / 40
p0 2.036e+04 ± 22.73
23000
22000
21000
20000
19000
18000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

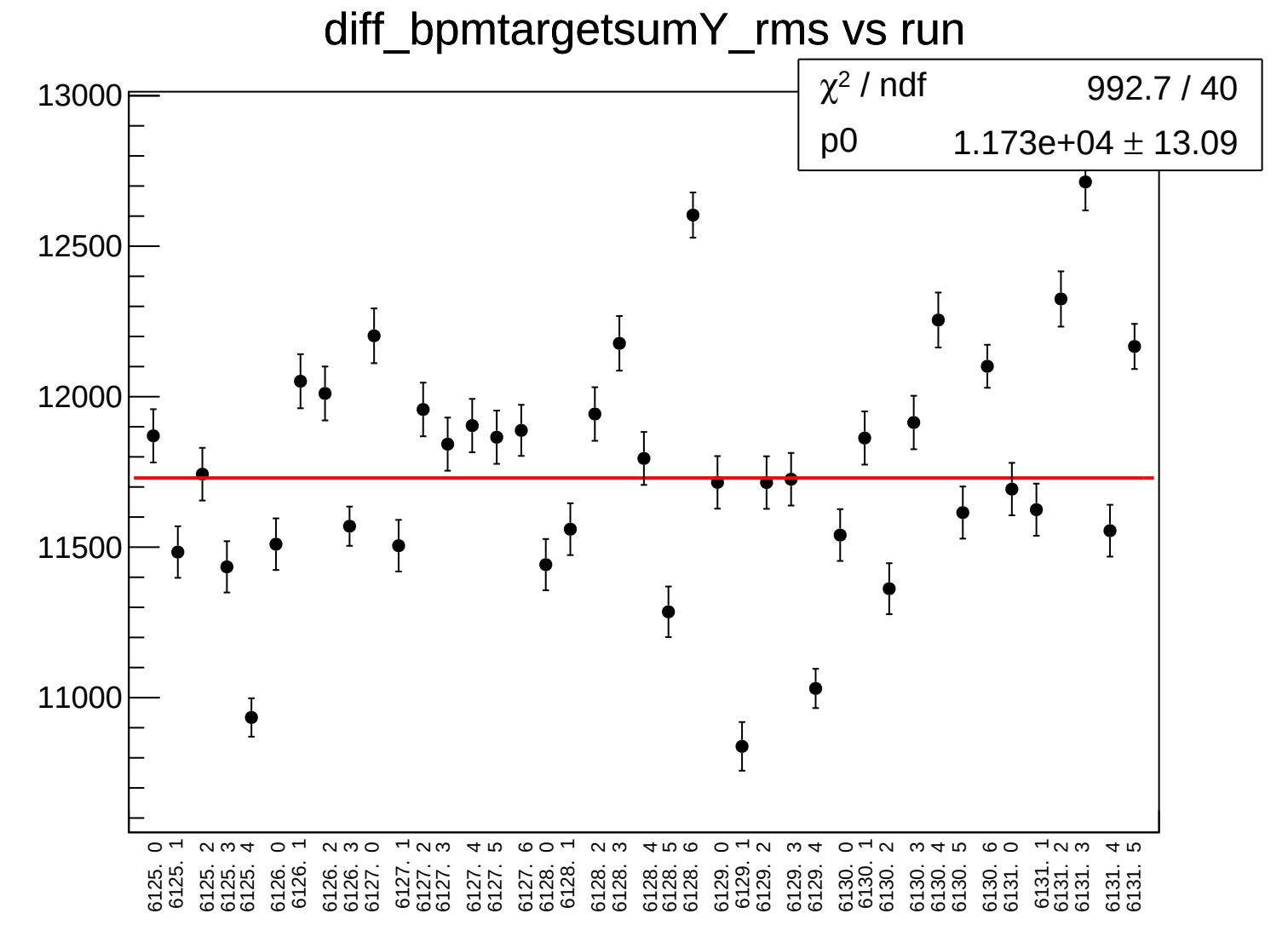

diff_bpmtargetdiffX_mean vs run
χ² / ndf 23.04 / 40
p0 −3.419 ± 4.639
pull
Entries 41
Mean 361.8
Std Dev 0

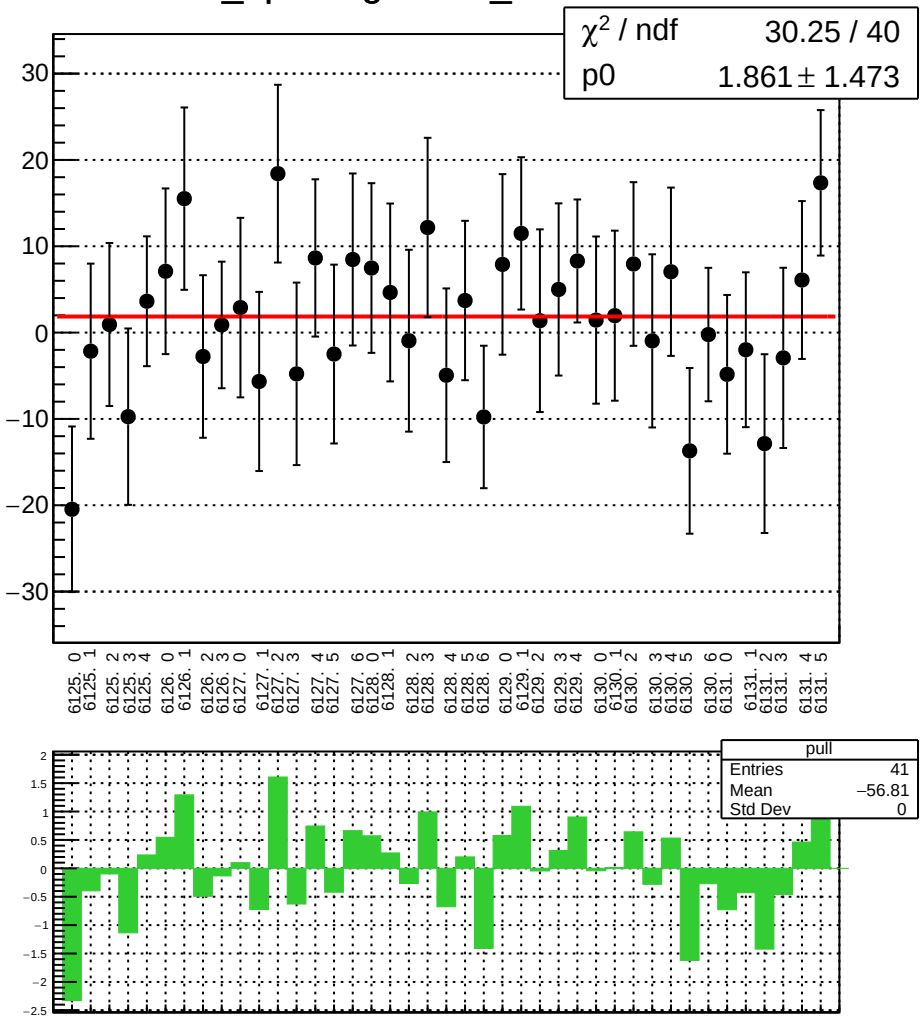

pull1D
Entries 41
Mean 0.004907
Std Dev 0.7496

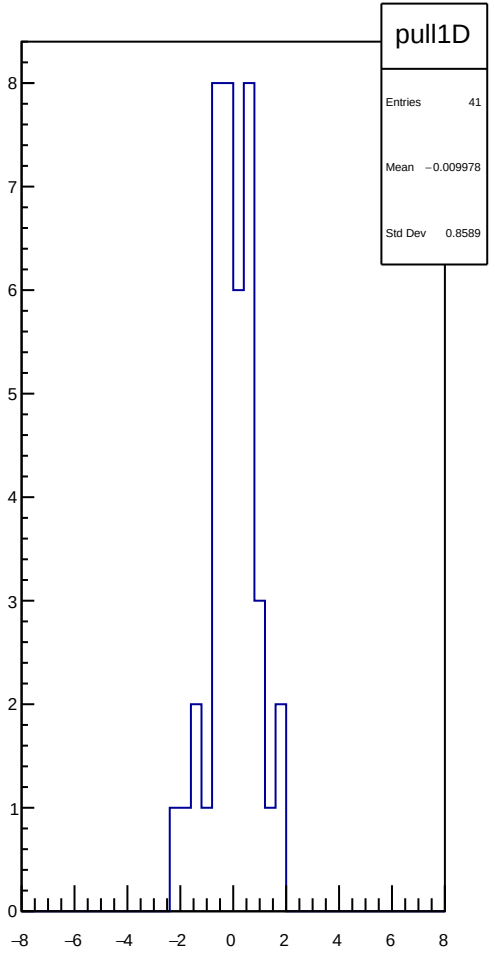

diff_bpmtargetdiffX_rms vs run
χ² / ndf 1150 / 40
p0 2940 ± 3.28
3200
3100
3000
2900
2800
2700
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

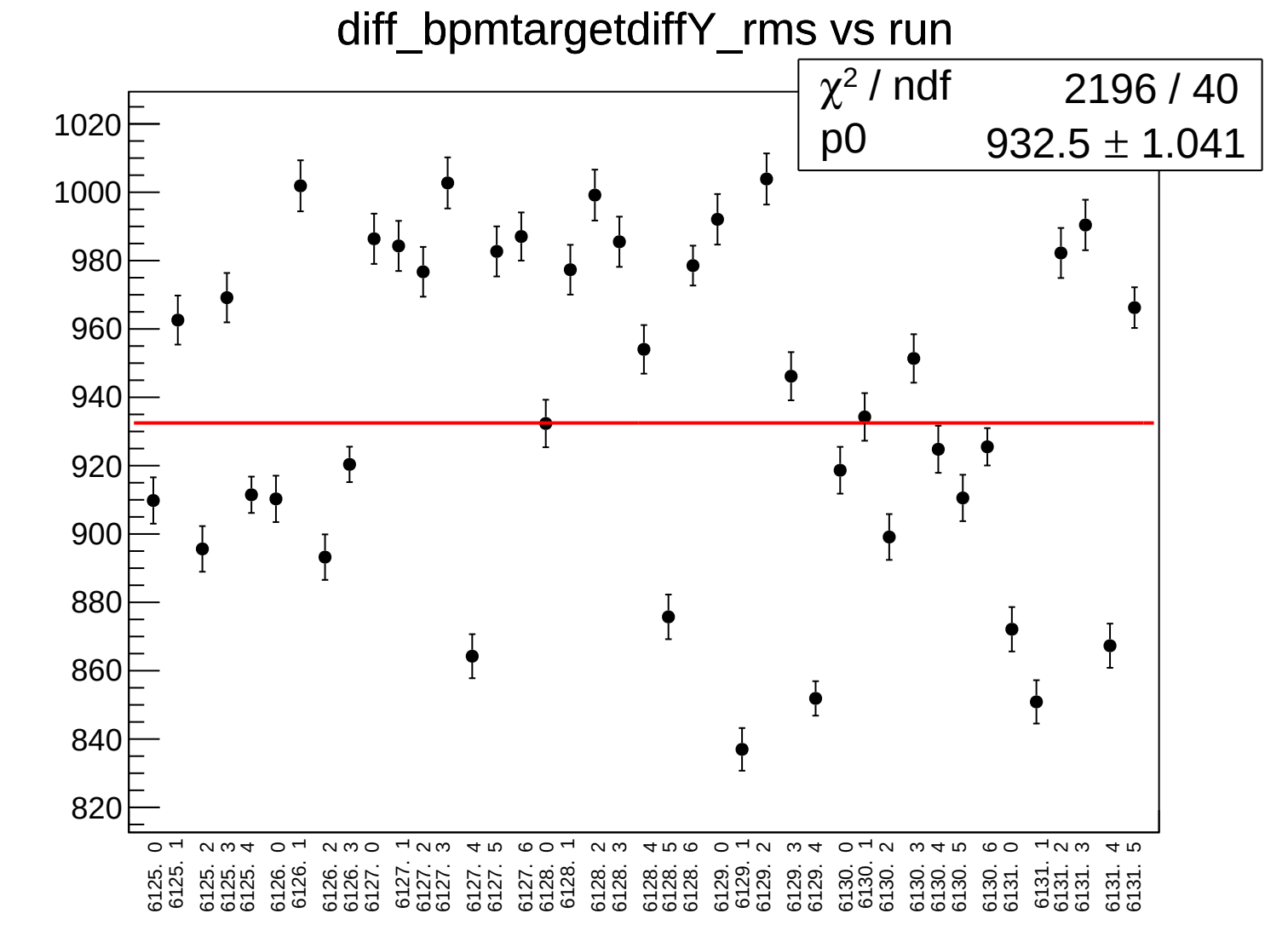

diff_bpmtargetsumY_mean vs run
χ² / ndf 57.82 / 40
p0 −3.32 ± 18.51
pull
Entries 41
Mean −35.93
Std Dev 0

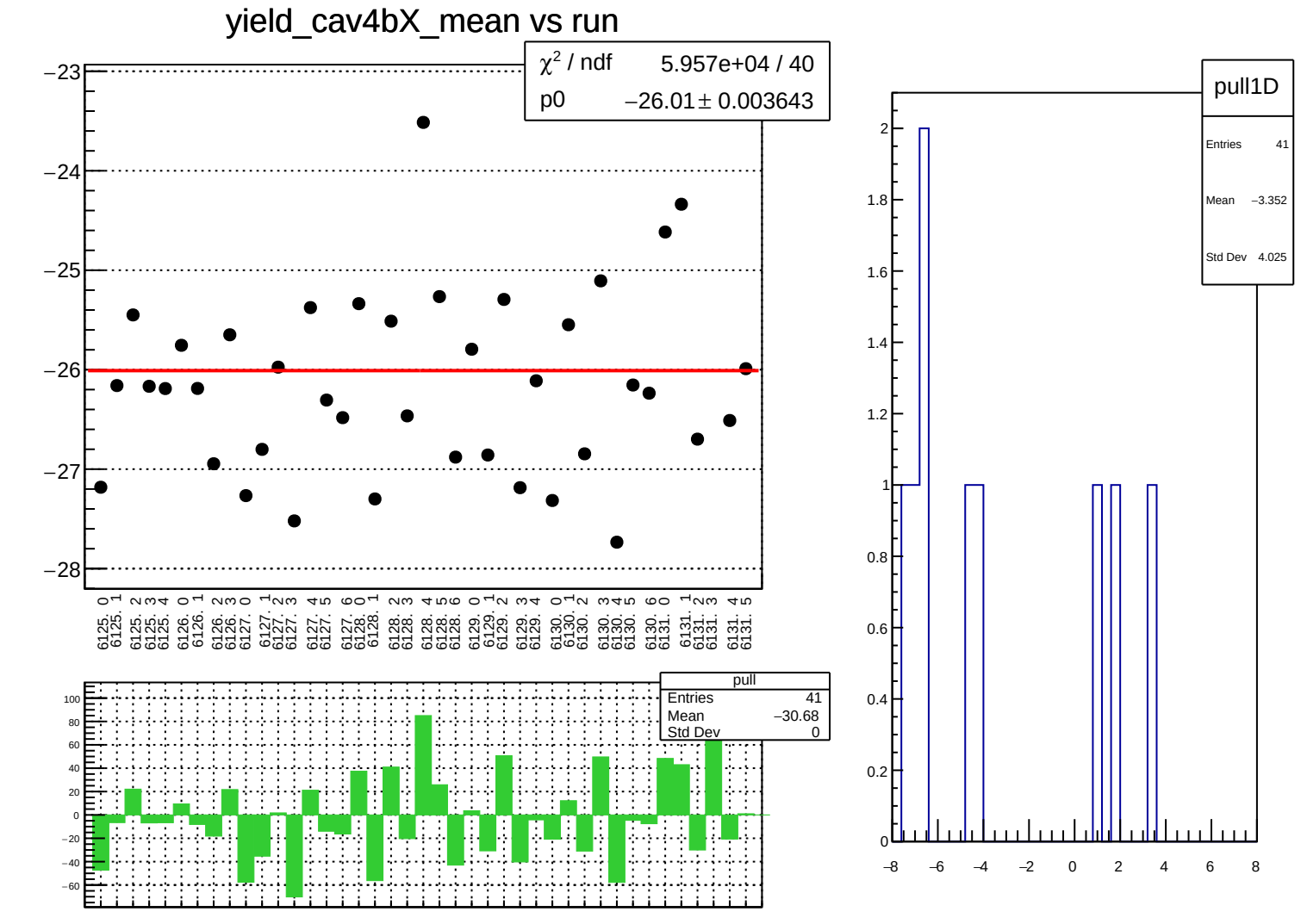

pull1D
Entries 41
Mean −0.03742
Std Dev 1.187

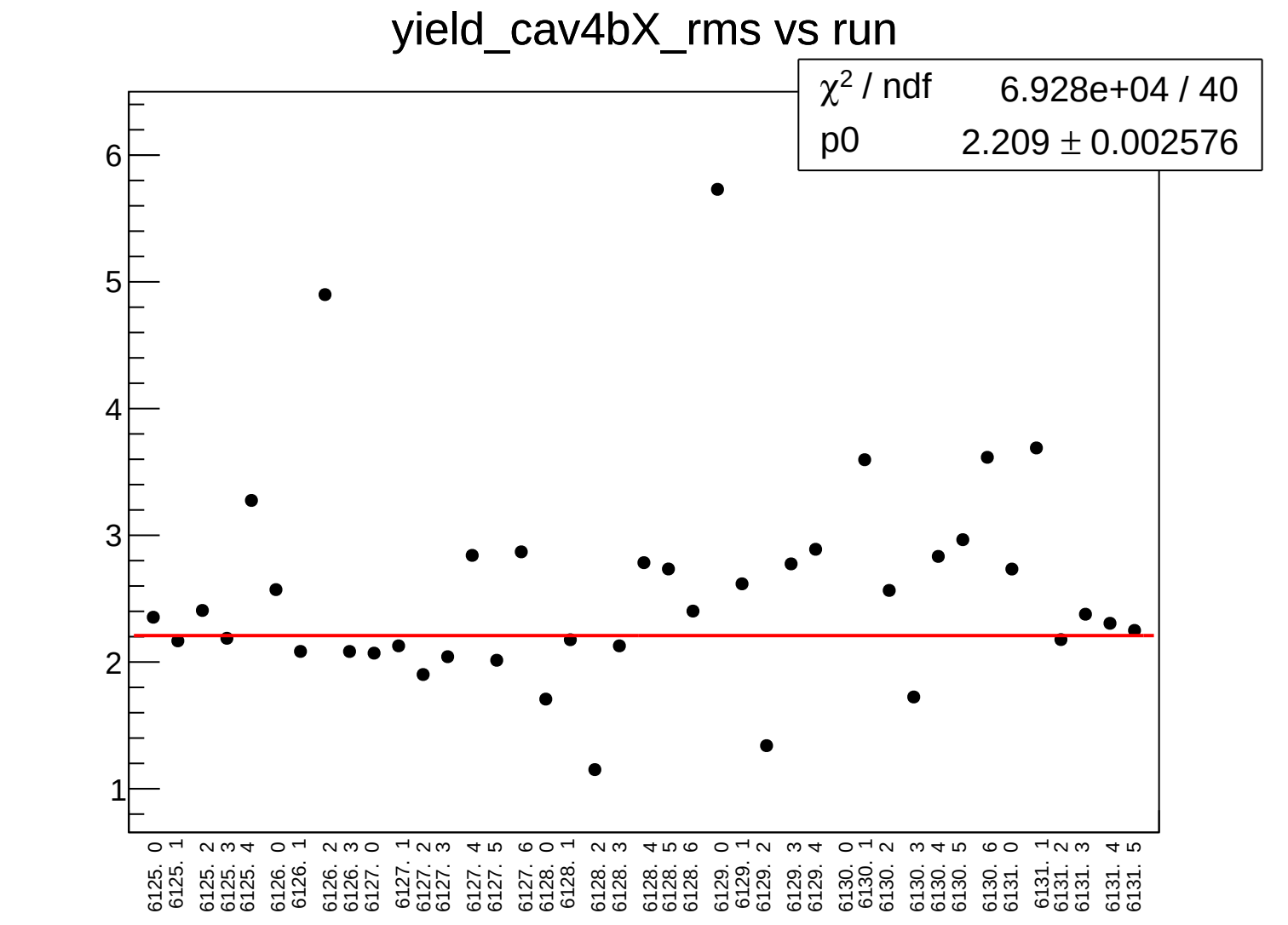

diff_bpmtargetsumY_rms vs run
χ² / ndf 992.7 / 40
p0 1.173e+04 ± 13.09
13000
12500
12000
11500
11000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

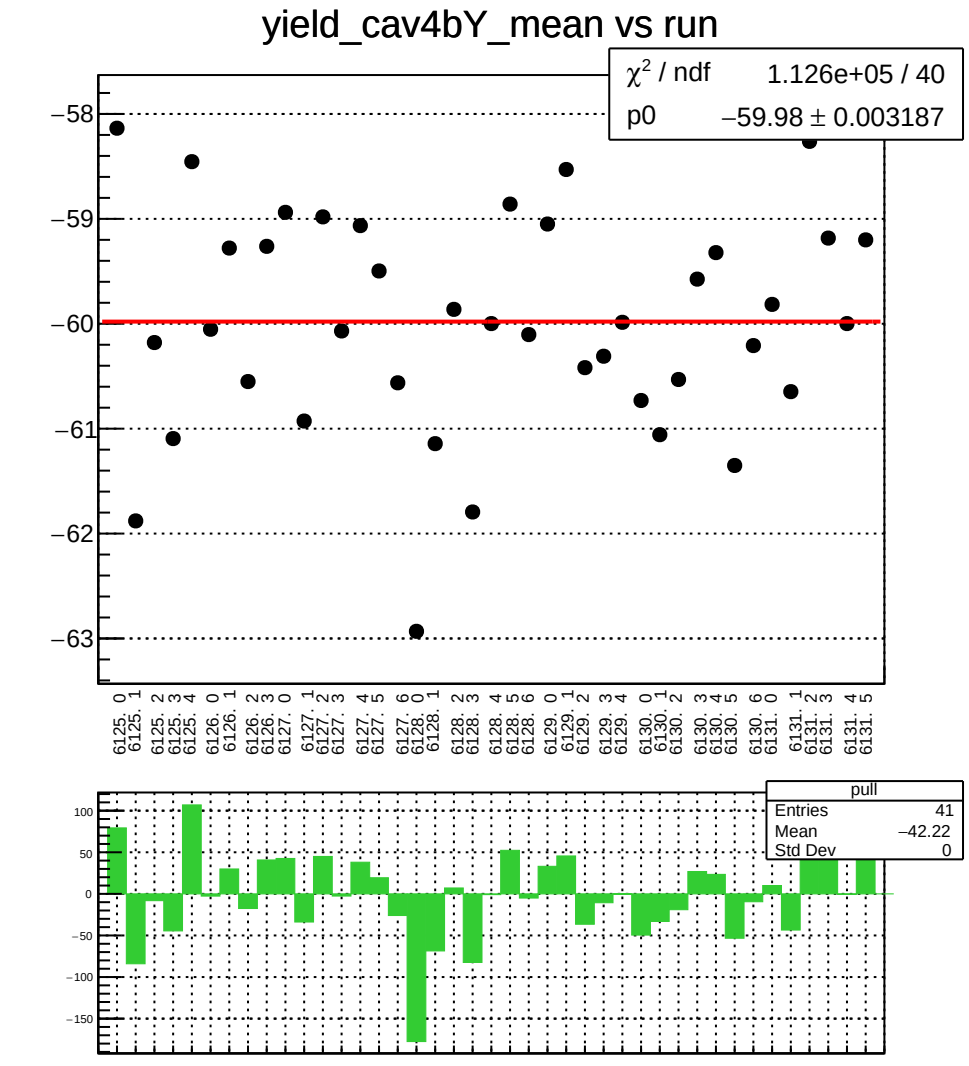

diff_bpmtargetdiffY_mean vs run
χ² / ndf 30.25 / 40
p0 1.861 ± 1.473
pull
Entries 41
Mean −56.81
Std Dev 0

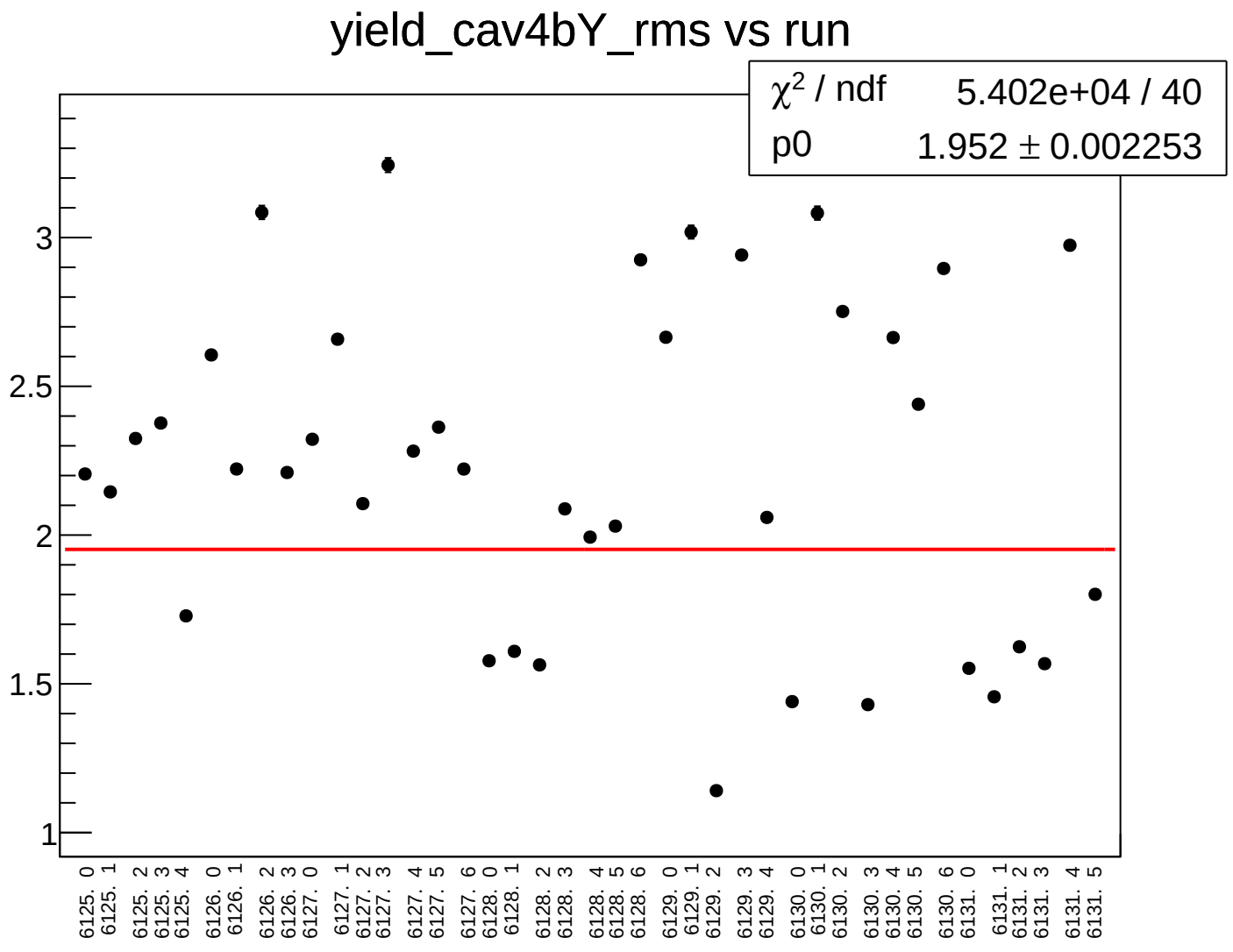

pull1D
Entries 41
Mean −0.009978
Std Dev 0.8589

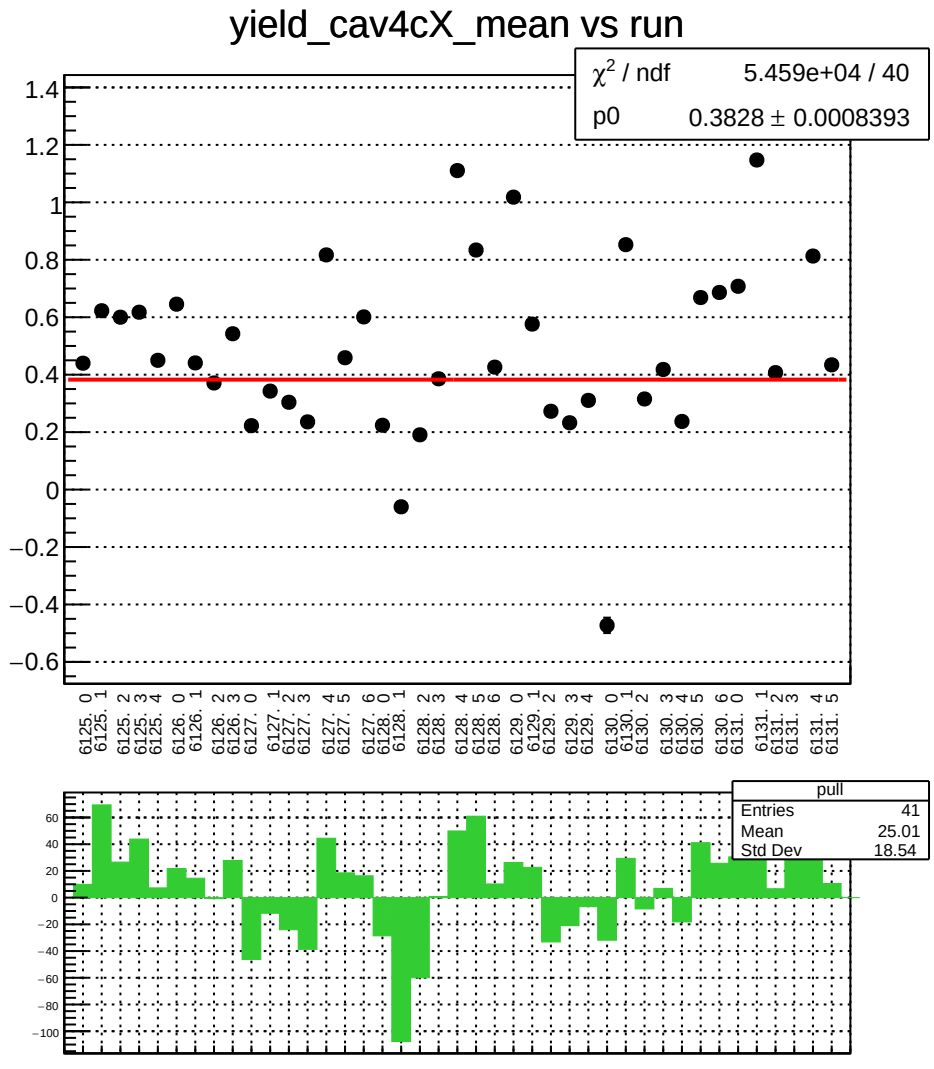

diff_bpmtargetdiffY_rms vs run
χ² / ndf 2196 / 40
p0 932.5 ± 1.041
1020
1000
980
960
940
920
900
880
860
840
820
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

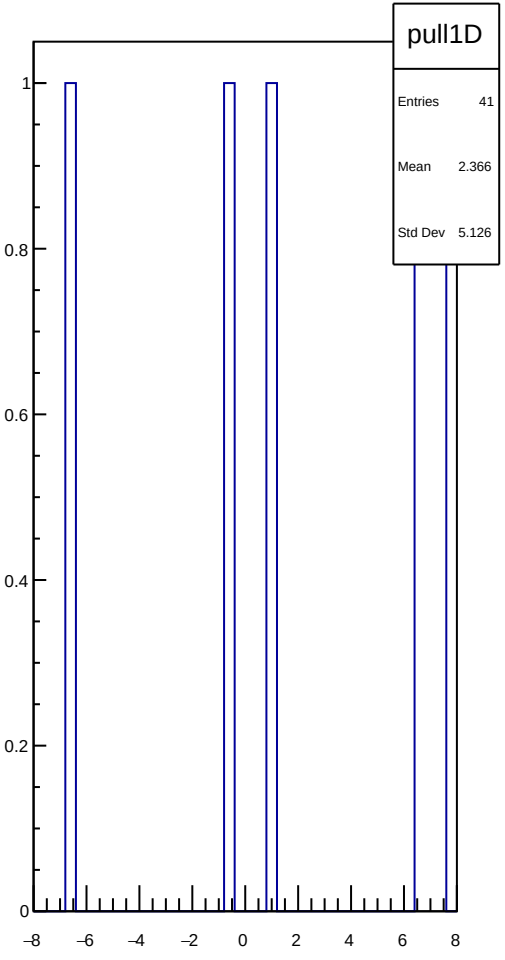

yield_cav4bX_mean vs run
χ² / ndf 5.957e+04 / 40
p0 −26.01 ± 0.003643
−23
−24
−25
−26
−27
−28
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −30.68
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
pull1D
Entries 41
Mean −3.352
Std Dev 4.025
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

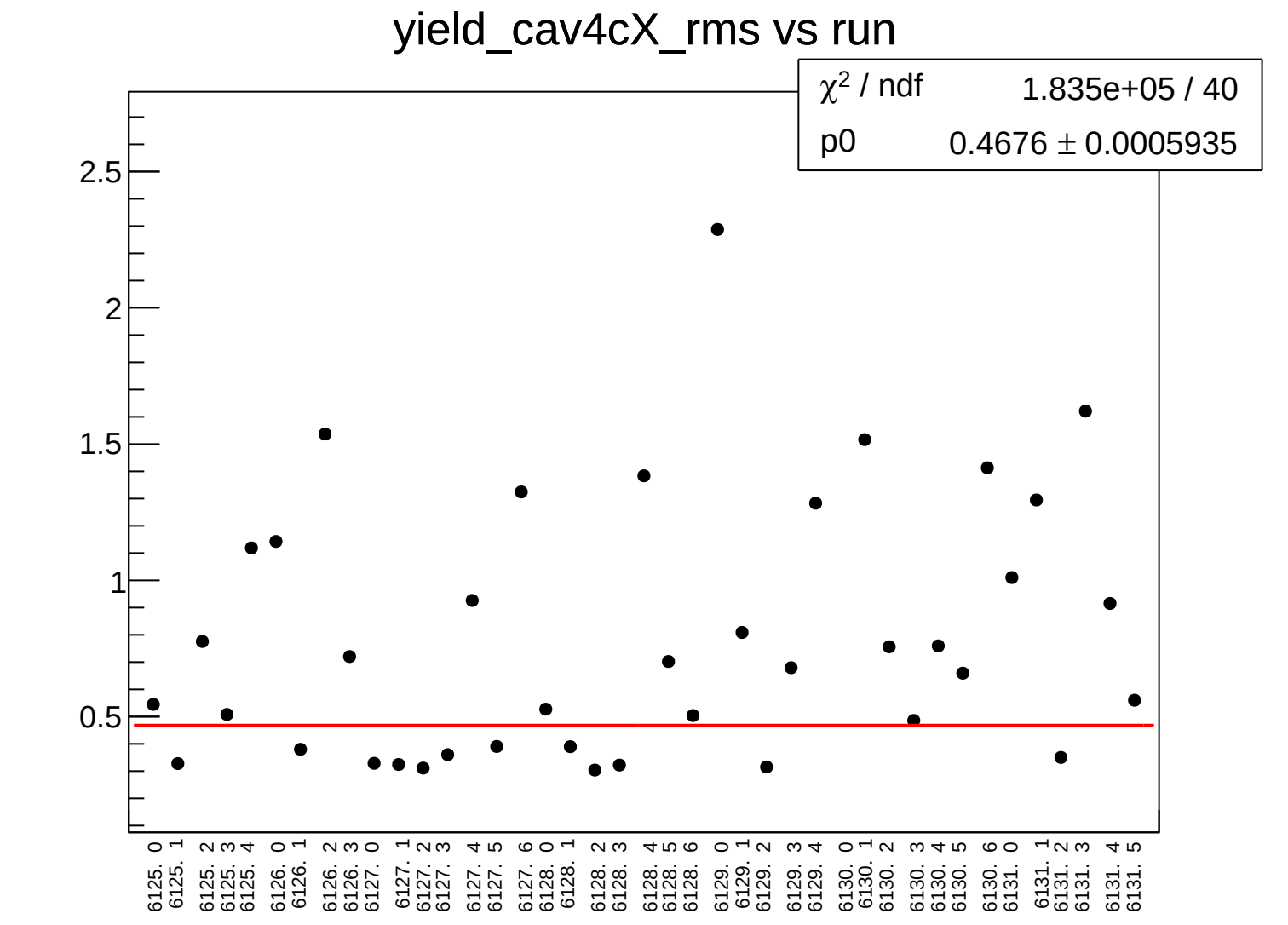

yield_cav4bX_rms vs run
χ² / ndf 6.928e+04 / 40
p0 2.209 ± 0.002576
6
5
4
3
2
1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

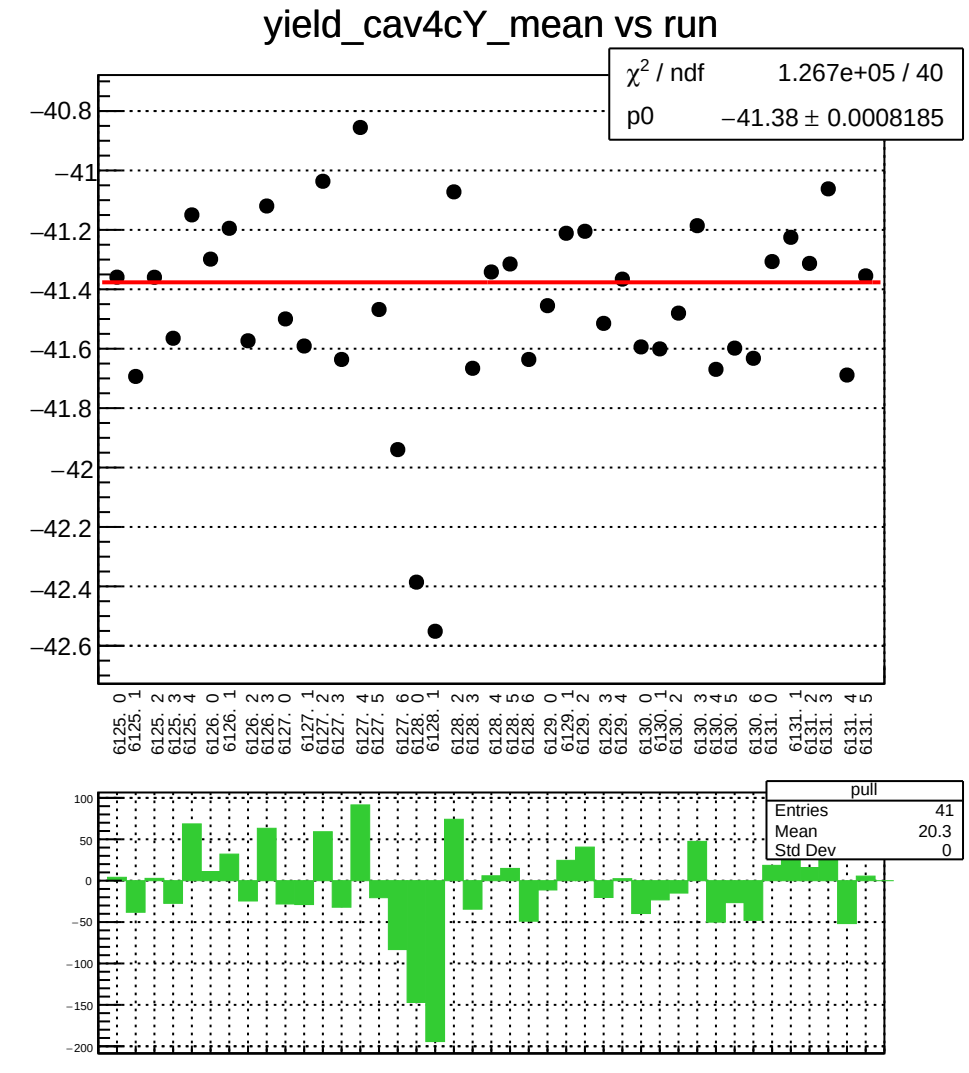

yield_cav4bY_mean vs run
χ² / ndf 1.126e+05 / 40
p0 −59.98 ± 0.003187
−58
−59
−60
−61
−62
−63
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −42.22
Std Dev 0
100
50
0
−50
−100
−150
pull1D
Entries 41
Mean −0.7279
Std Dev 3.522
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

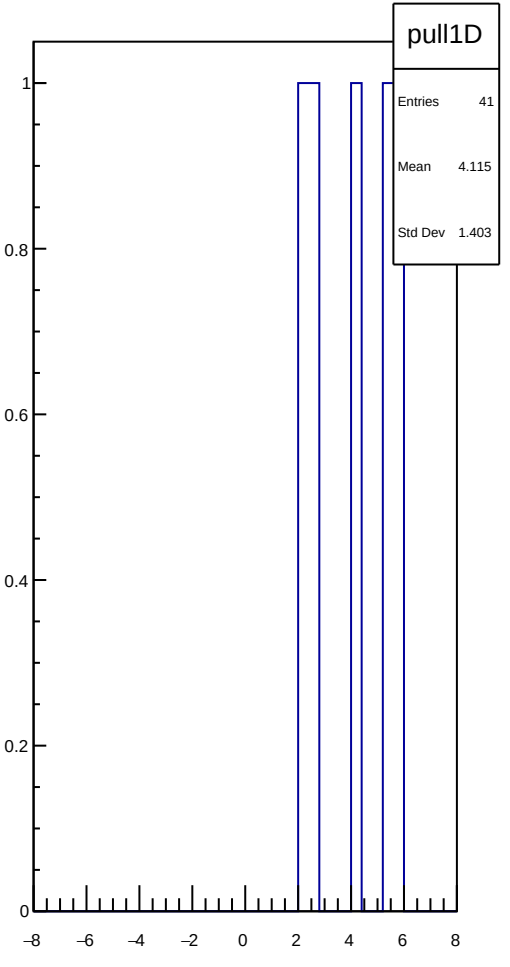

yield_cav4bY_rms vs run
χ² / ndf 5.402e+04 / 40
p0 1.952 ± 0.002253
3
2.5
2
1.5
1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

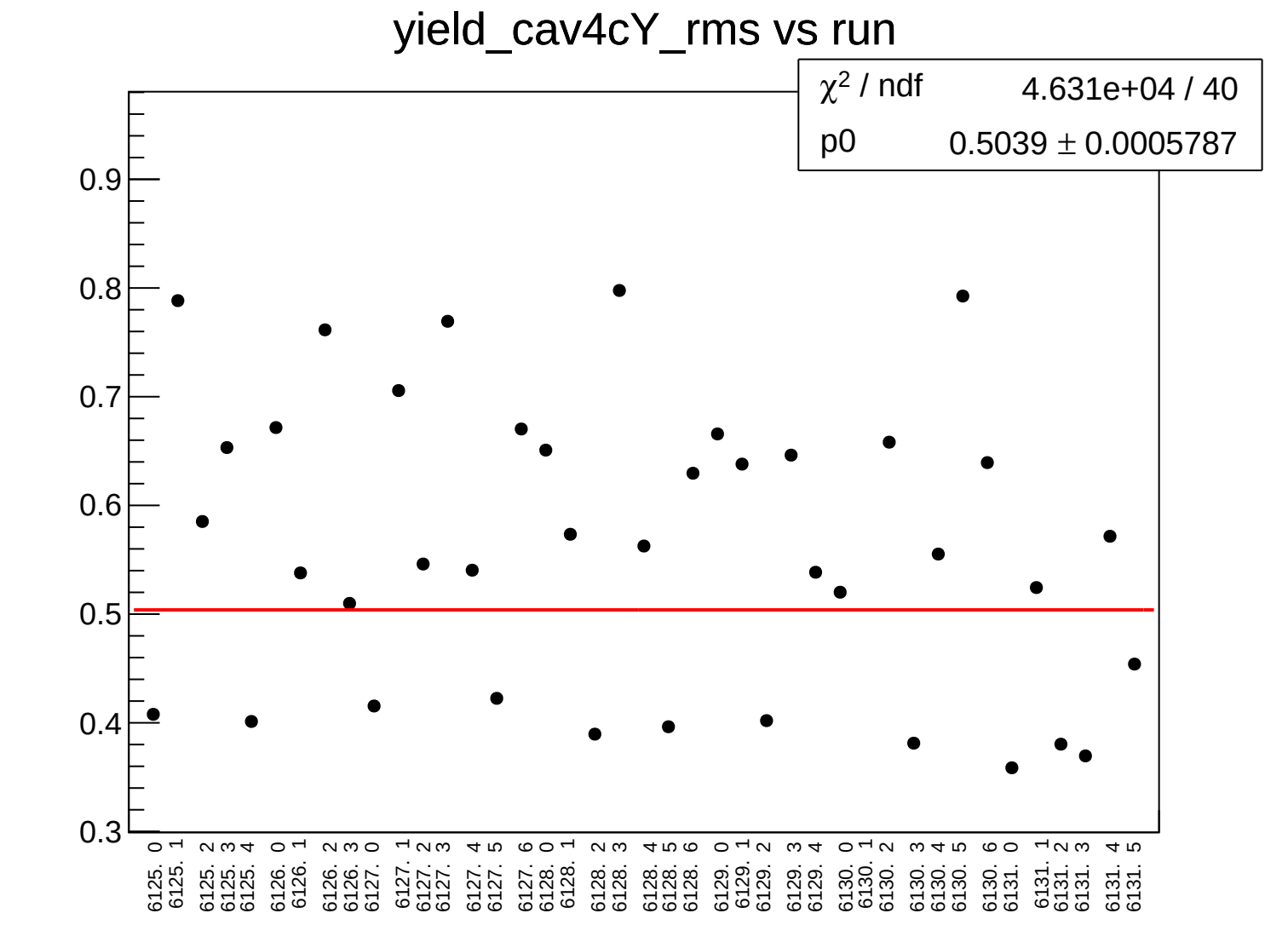

yield_cav4cX_mean vs run
χ² / ndf 5.459e+04 / 40
p0 0.3828 ± 0.0008393
pull
Entries 41
Mean 25.01
Std Dev 18.54

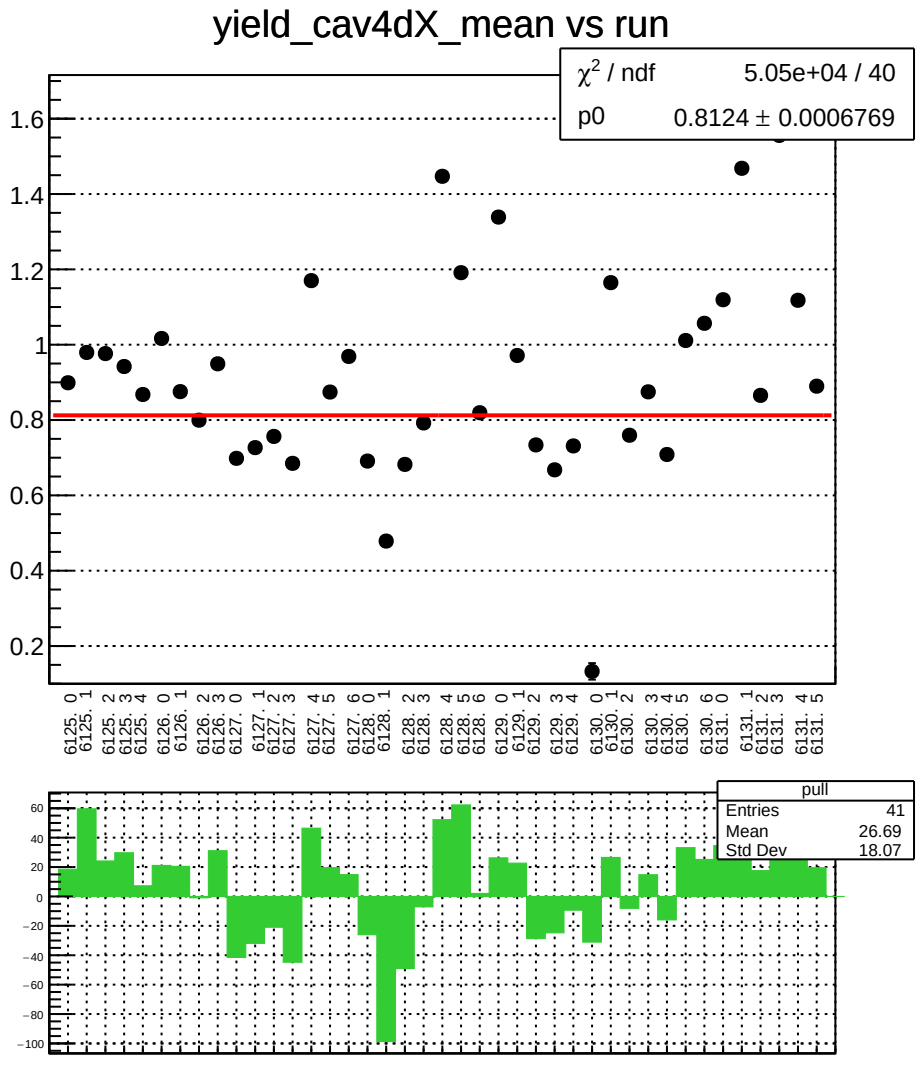

pull1D
Entries 41
Mean 2.366
Std Dev 5.126

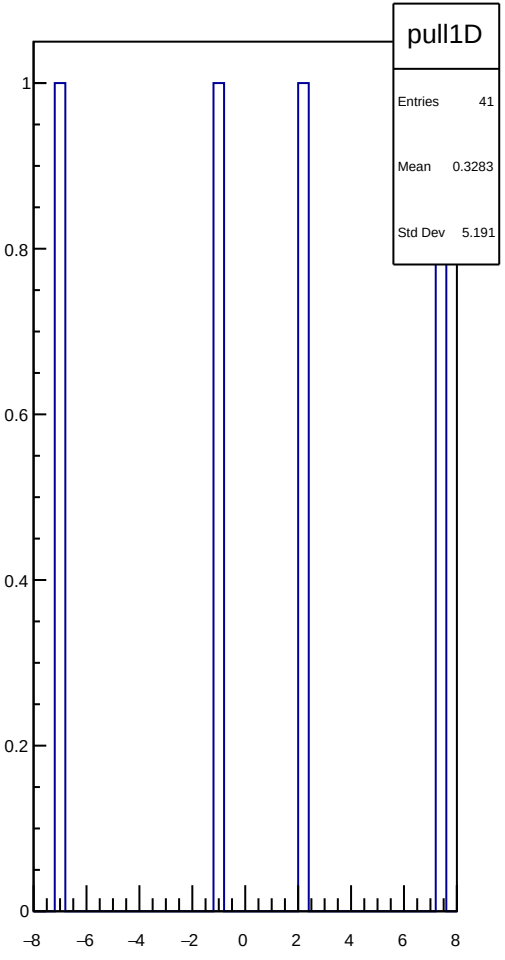

yield_cav4cX_rms vs run
χ² / ndf 1.835e+05 / 40
p0 0.4676 ± 0.0005935
2.5
2
1.5
1
0.5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

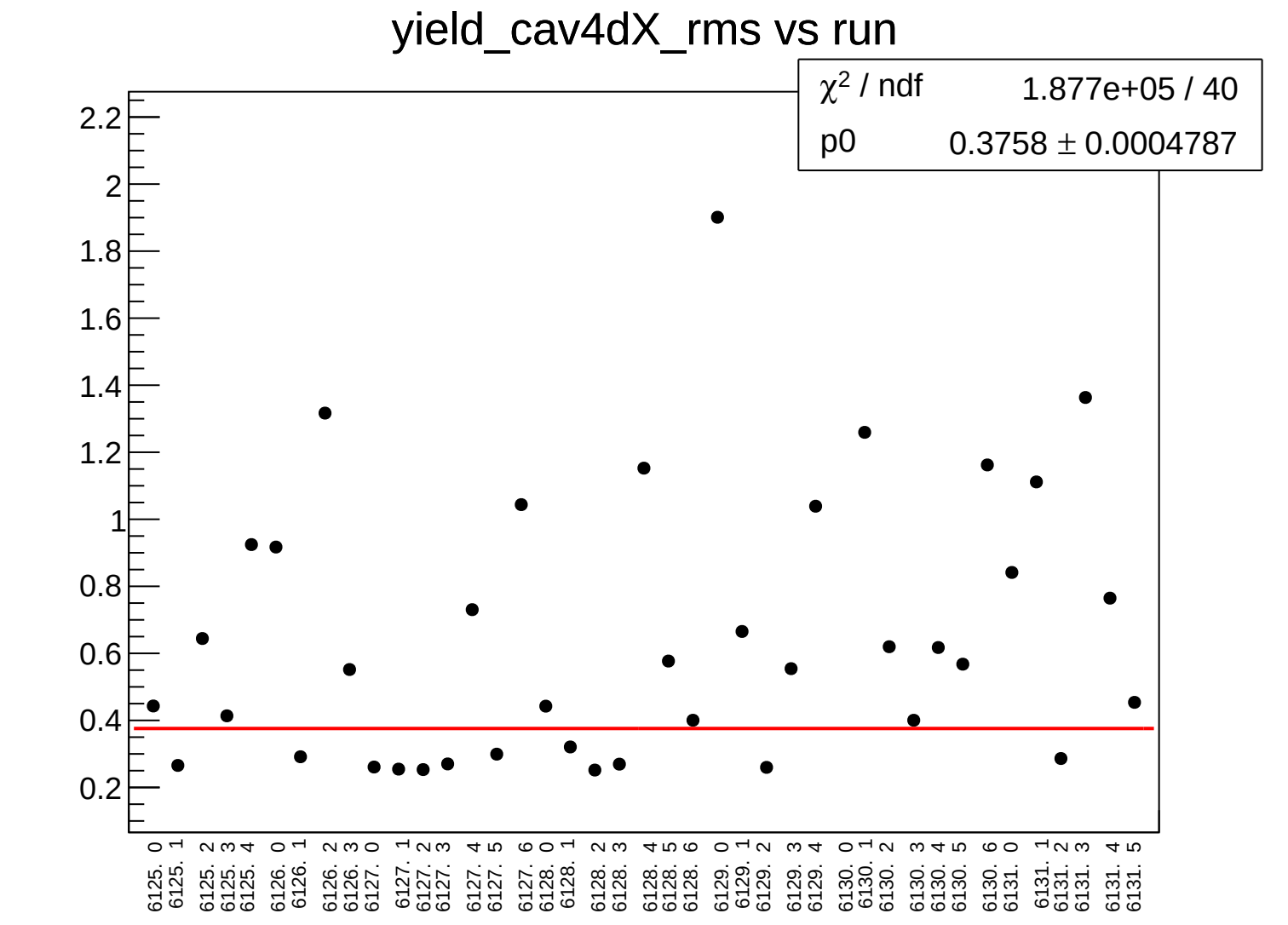

yield_cav4cY_mean vs run
χ² / ndf 1.267e+05 / 40
p0 −41.38 ± 0.0008185
−40.8
−41
−41.2
−41.4
−41.6
−41.8
−42
−42.2
−42.4
−42.6
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 20.3
Std Dev 0
100
50
0
−50
−100
−150
−200

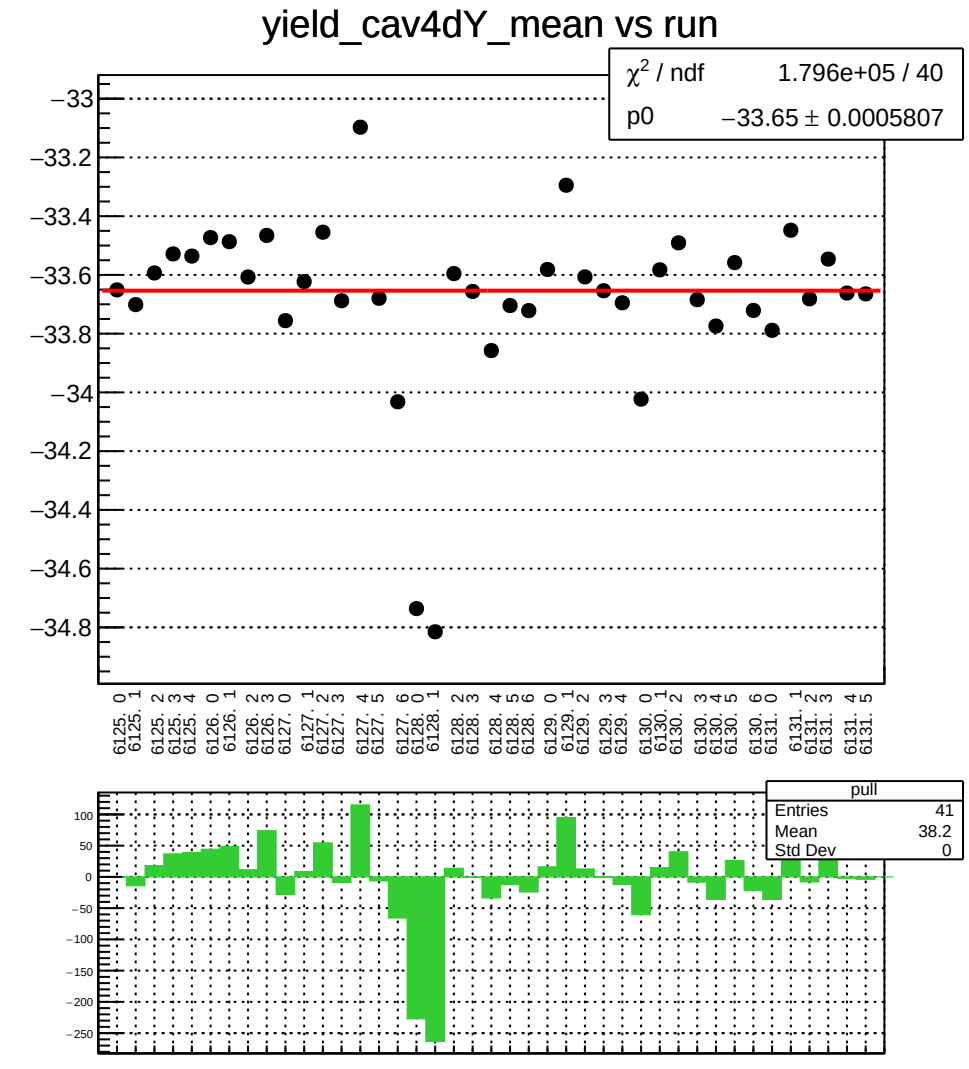

pull1D
Entries 41
Mean 4.115
Std Dev 1.403
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

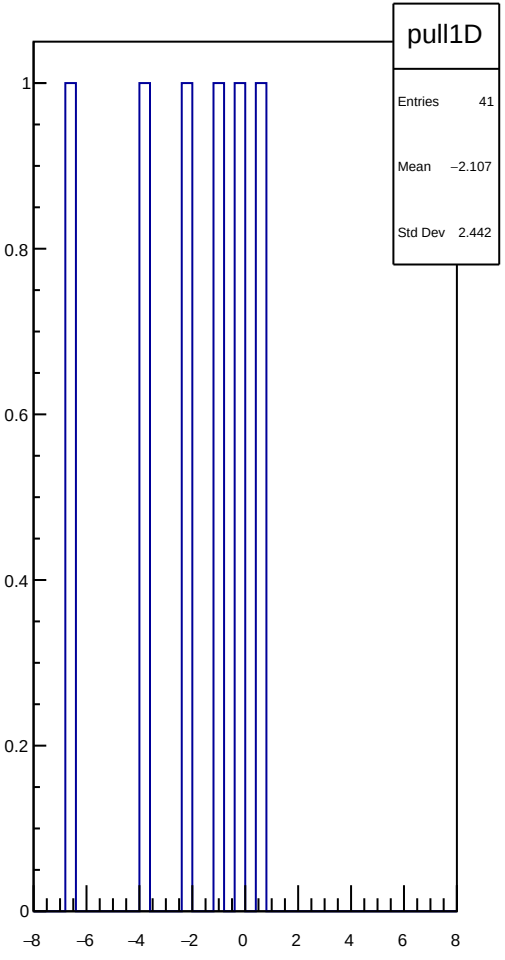

yield_cav4cY_rms vs run
χ² / ndf 4.631e+04 / 40
p0 0.5039 ± 0.0005787
0.9
0.8
0.7
0.6
0.5
0.4
0.3
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

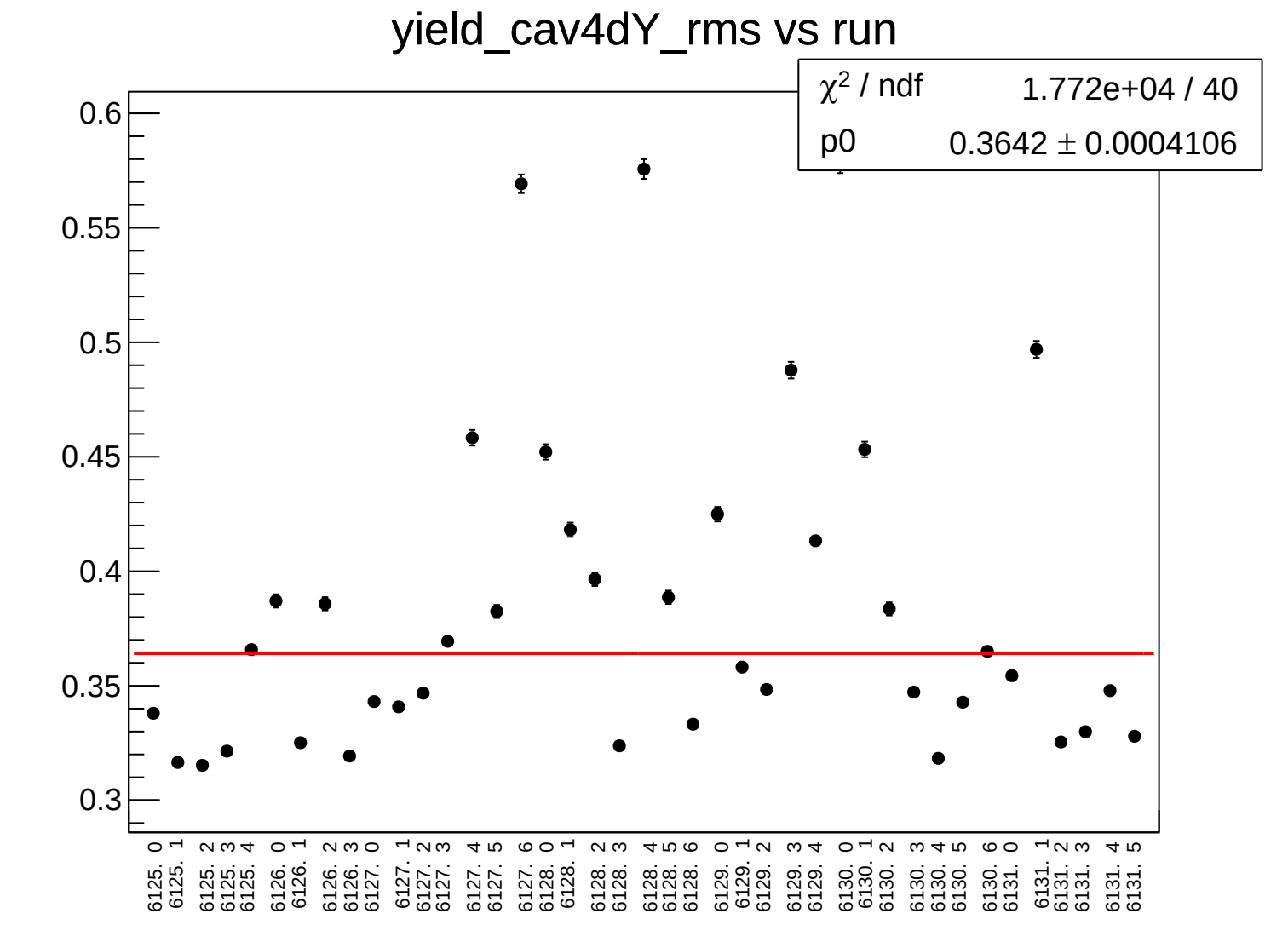

yield_cav4dX_mean vs run
χ² / ndf 5.05e+04 / 40
p0 0.8124 ± 0.0006769
pull
Entries 41
Mean 26.69
Std Dev 18.07

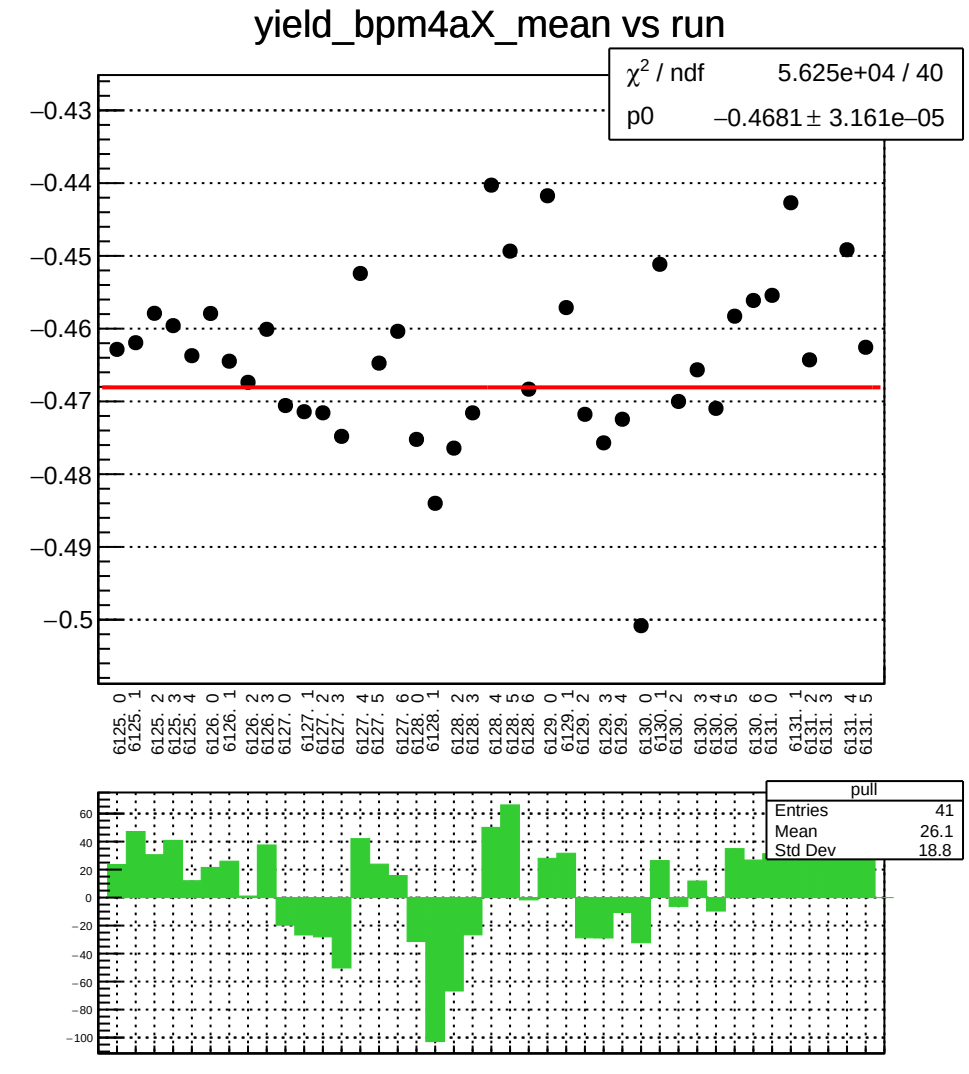

pull1D
Entries 41
Mean 0.3283
Std Dev 5.191

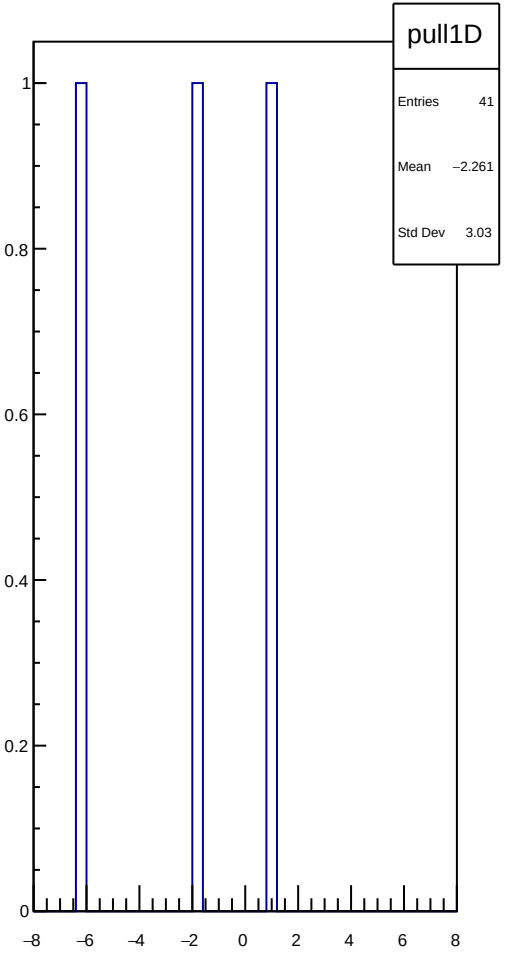

yield_cav4dX_rms vs run
χ² / ndf 1.877e+05 / 40
p0 0.3758 ± 0.0004787
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

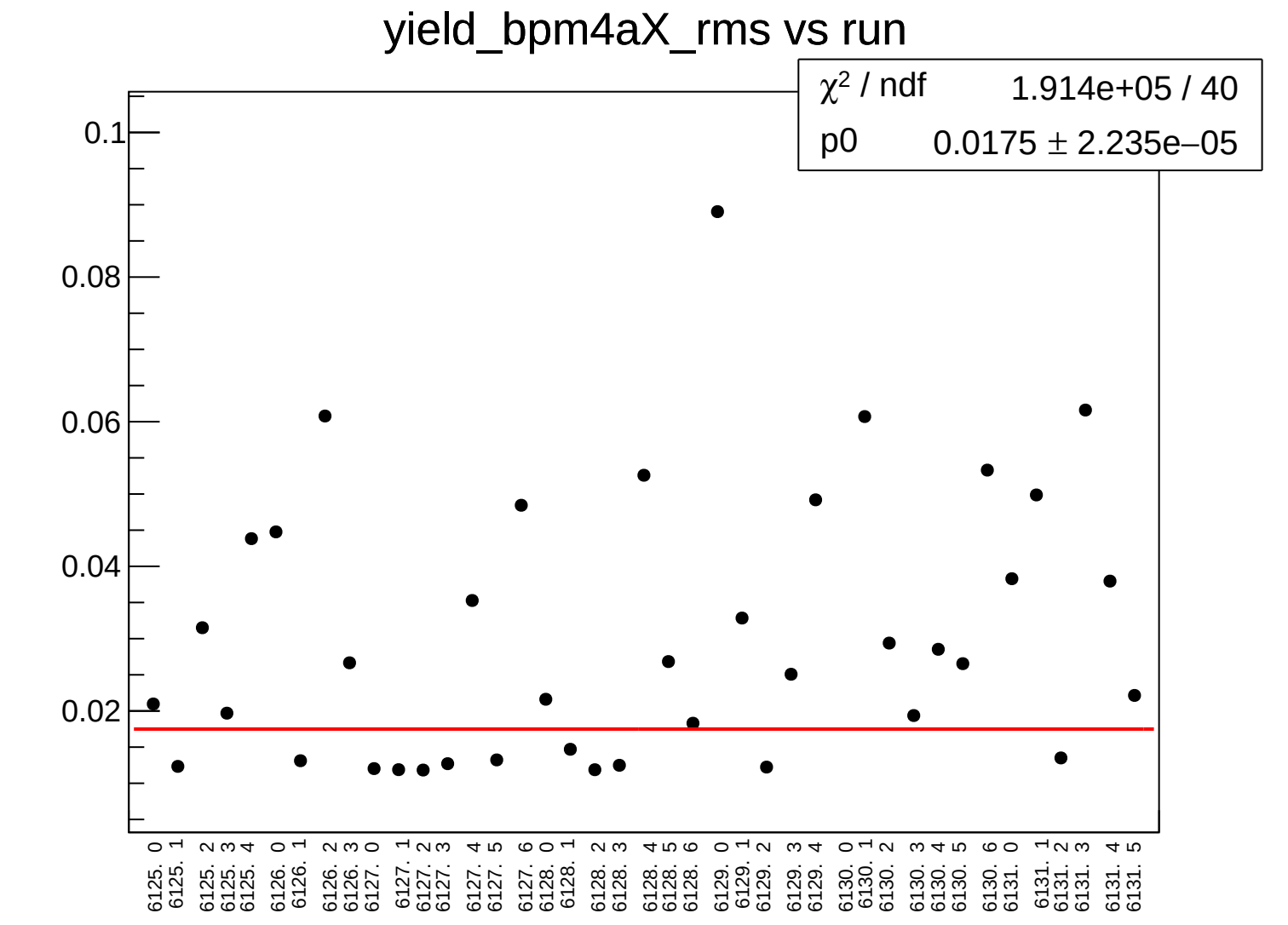

yield_cav4dY_mean vs run
χ² / ndf 1.796e+05 / 40
p0 −33.65 ± 0.0005807
−33
−33.2
−33.4
−33.6
−33.8
−34
−34.2
−34.4
−34.6
−34.8
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 38.2
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

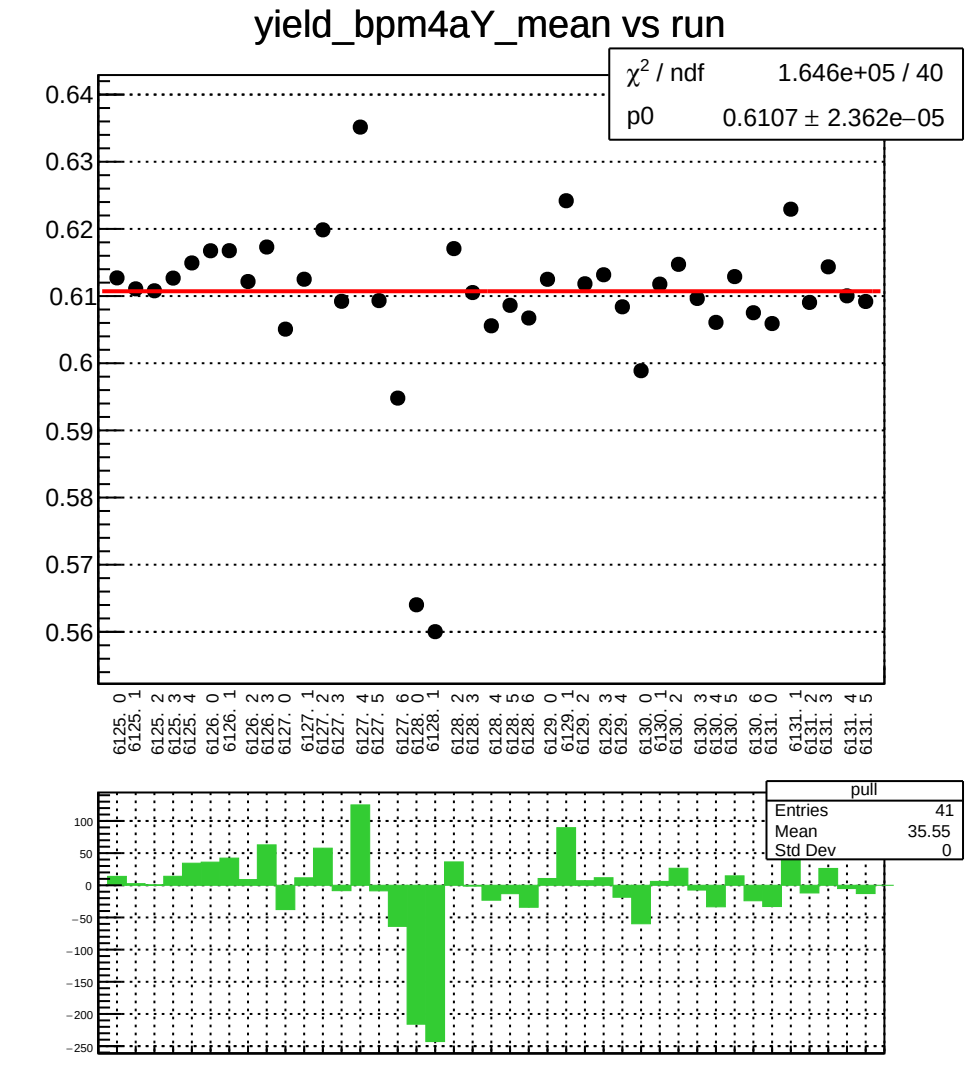

pull1D
Entries 41
Mean −2.107
Std Dev 2.442
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

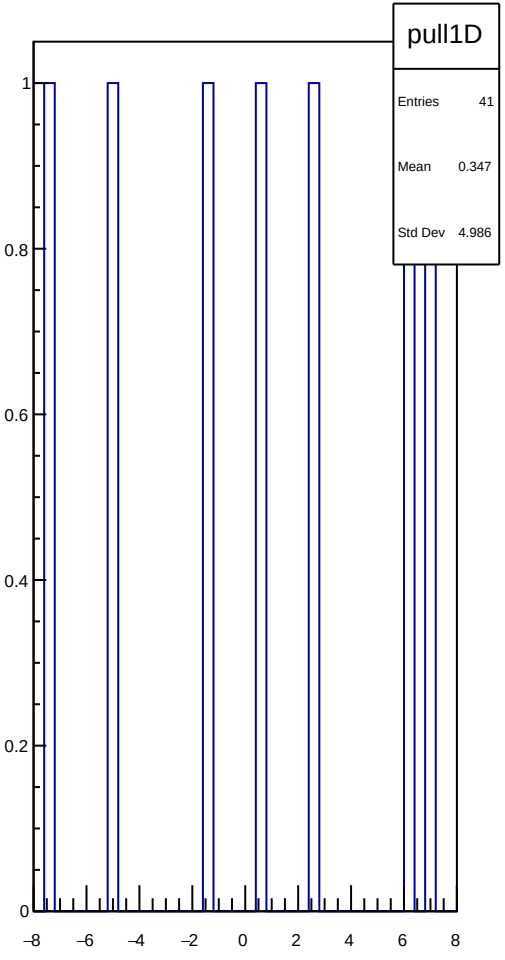

yield_cav4dY_rms vs run
χ² / ndf 1.772e+04 / 40
p0 0.3642 ± 0.0004106
0.6
0.55
0.5
0.45
0.4
0.35
0.3
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

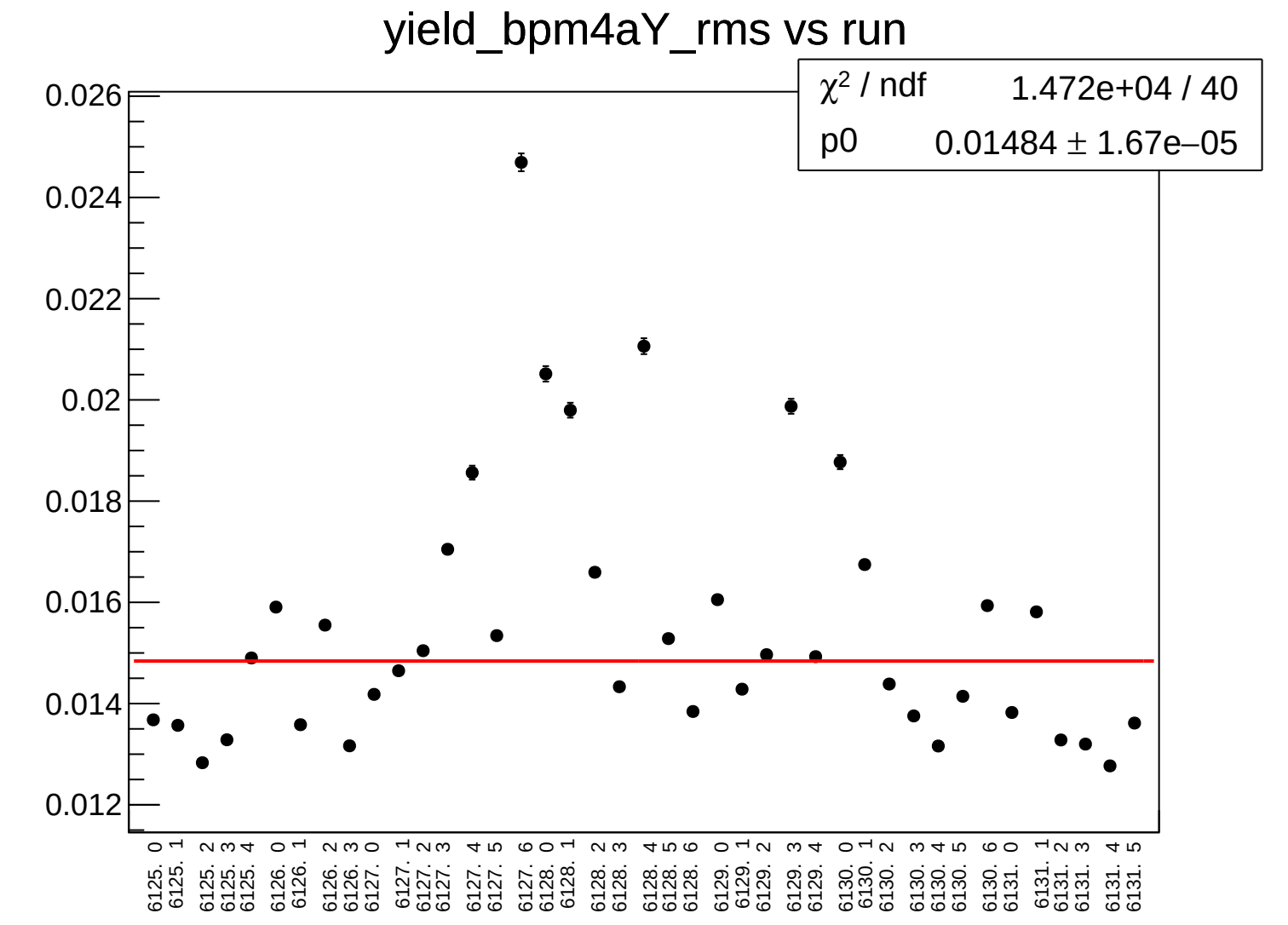

yield_bpm4aX_mean vs run
χ² / ndf 5.625e+04 / 40
p0 −0.4681 ± 3.161e−05
−0.43
−0.44
−0.45
−0.46
−0.47
−0.48
−0.49
−0.5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 26.1
Std Dev 18.8
60
40
20
0
−20
−40
−60
−80
−100

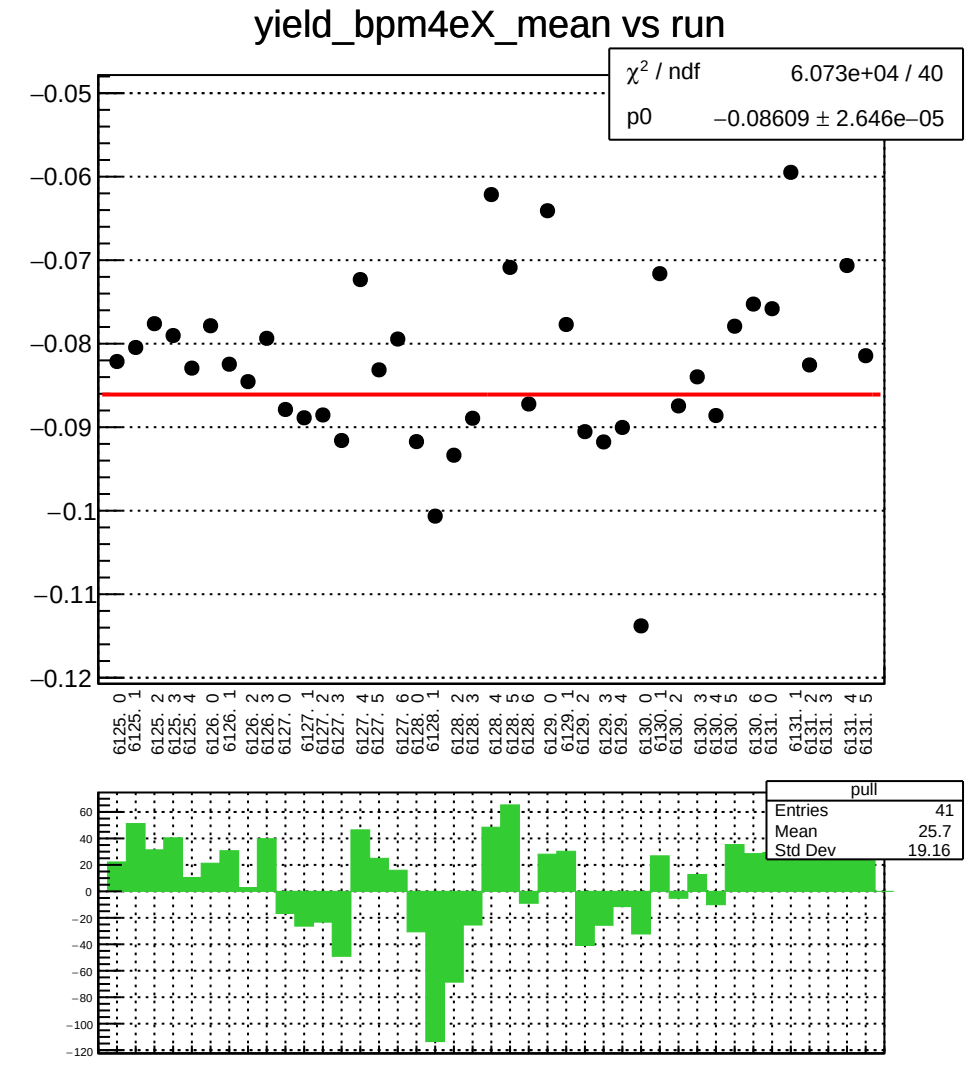

pull1D
Entries 41
Mean −2.261
Std Dev 3.03
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

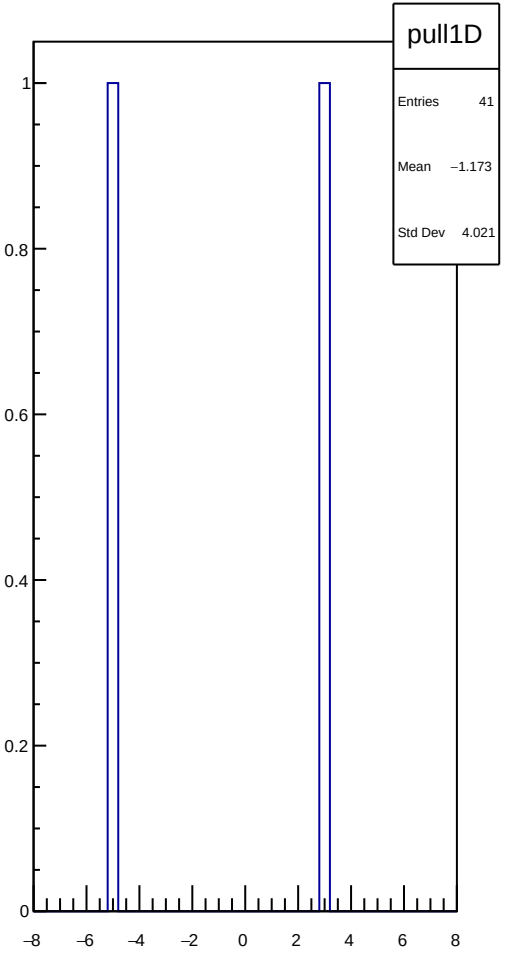

yield_bpm4aX_rms vs run
χ² / ndf 1.914e+05 / 40
p0 0.0175 ± 2.235e−05
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

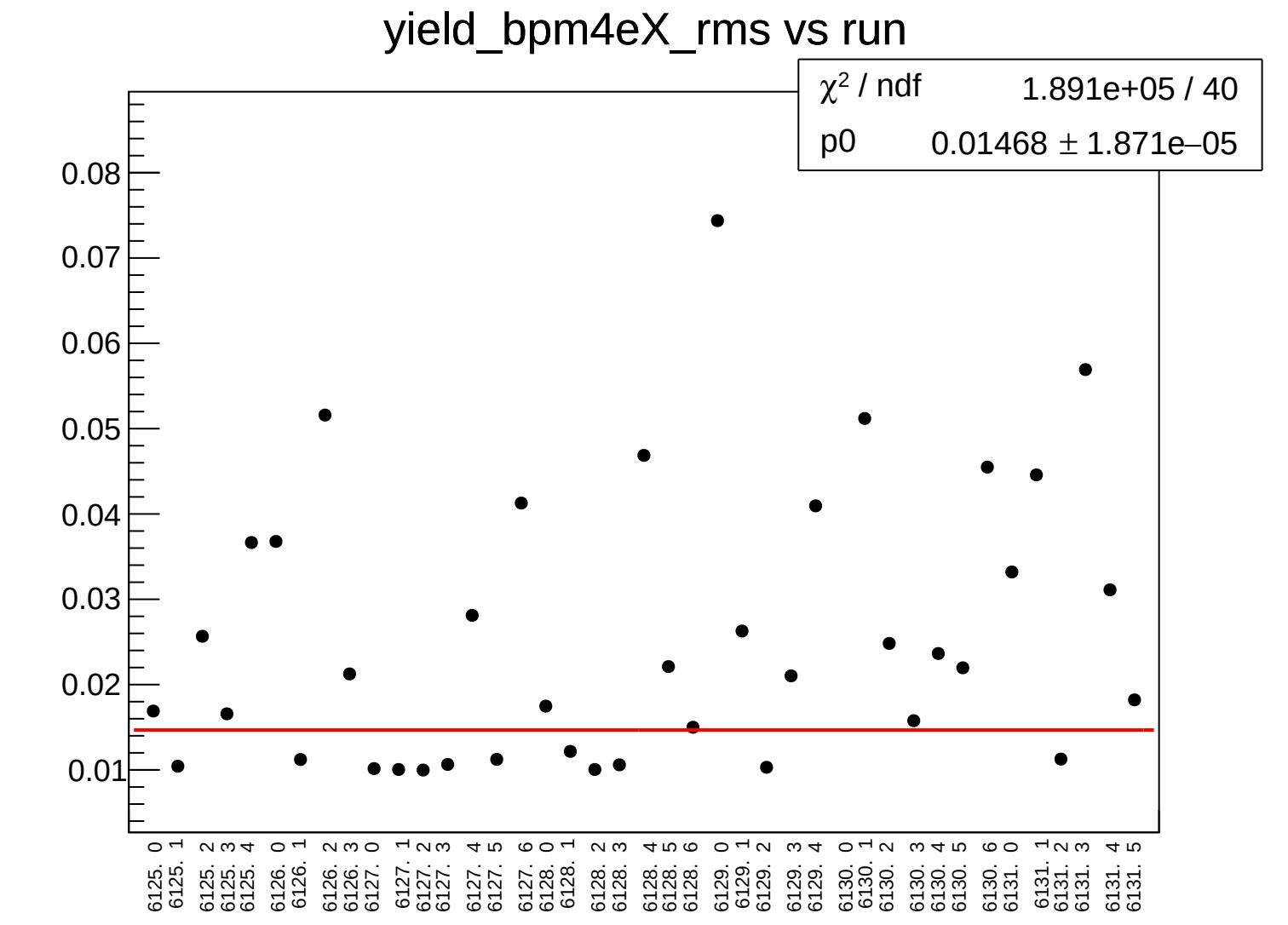

yield_bpm4aY_mean vs run
χ² / ndf 1.646e+05 / 40
p0 0.6107 ± 2.362e−05
0.64
0.63
0.62
0.61
0.6
0.59
0.58
0.57
0.56
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 35.55
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

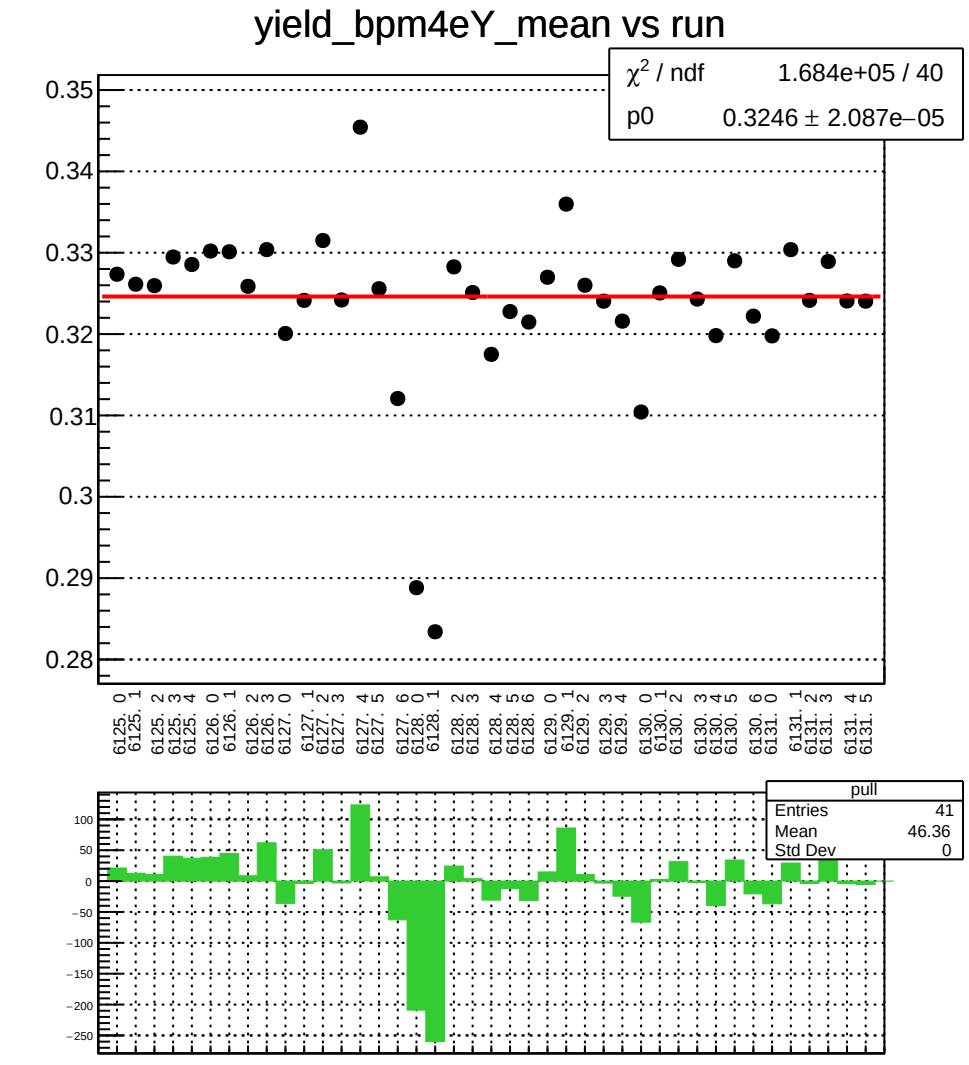

pull1D
Entries 41
Mean 0.347
Std Dev 4.986
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

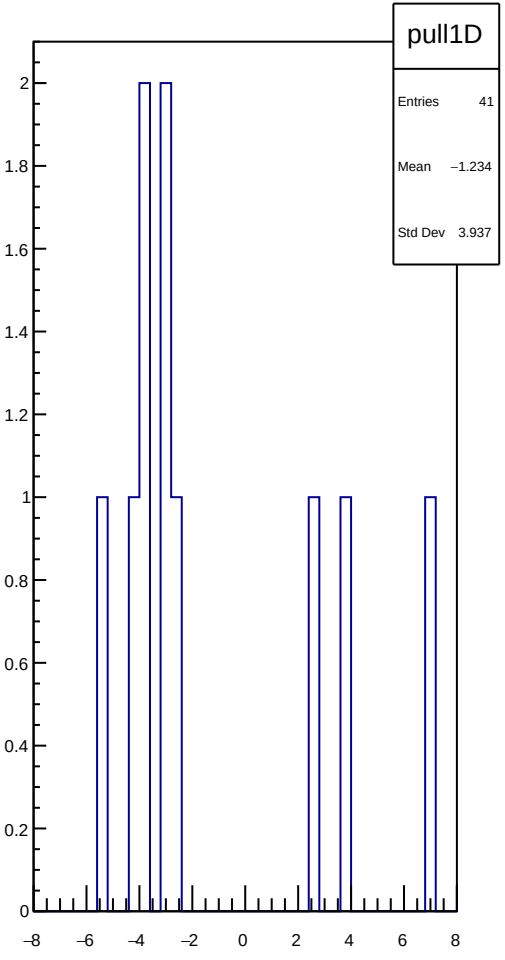

yield_bpm4aY_rms vs run
χ² / ndf 1.472e+04 / 40
p0 0.01484 ± 1.67e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

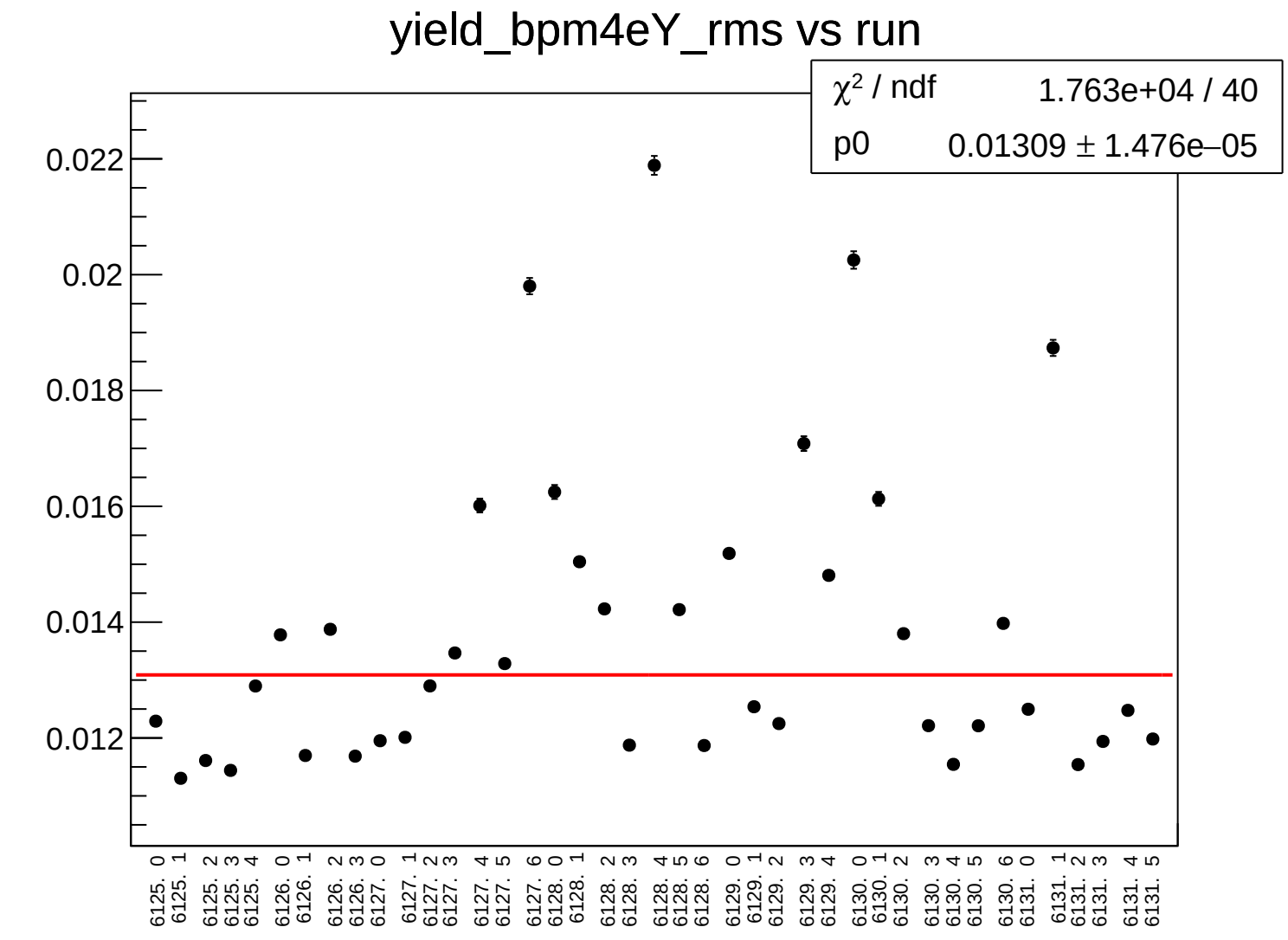

yield_bpm4eX_mean vs run
χ² / ndf 6.073e+04 / 40
p0 −0.08609 ± 2.646e−05
pull
Entries 41
Mean 25.7
Std Dev 19.16

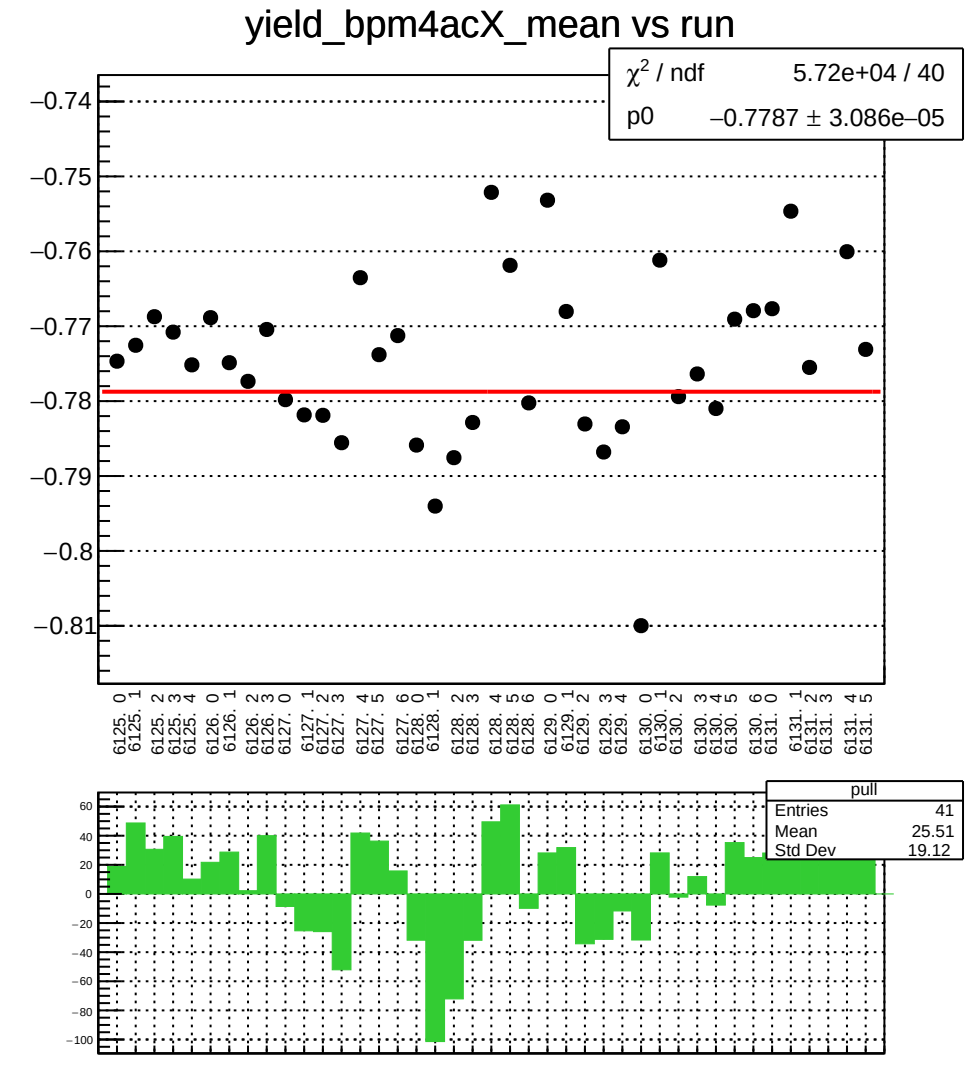

pull1D
Entries 41
Mean −1.173
Std Dev 4.021

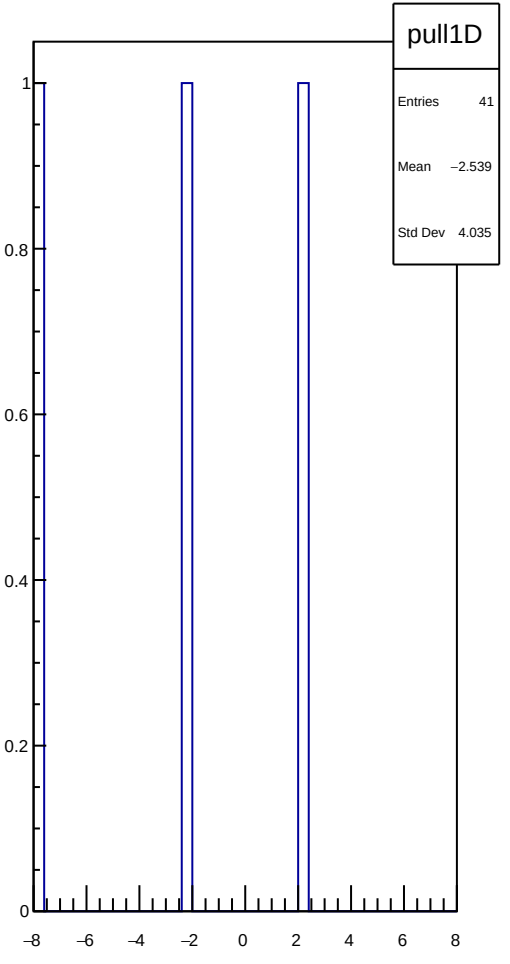

yield_bpm4eX_rms vs run
χ² / ndf 1.891e+05 / 40
p0 0.01468 ± 1.871e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

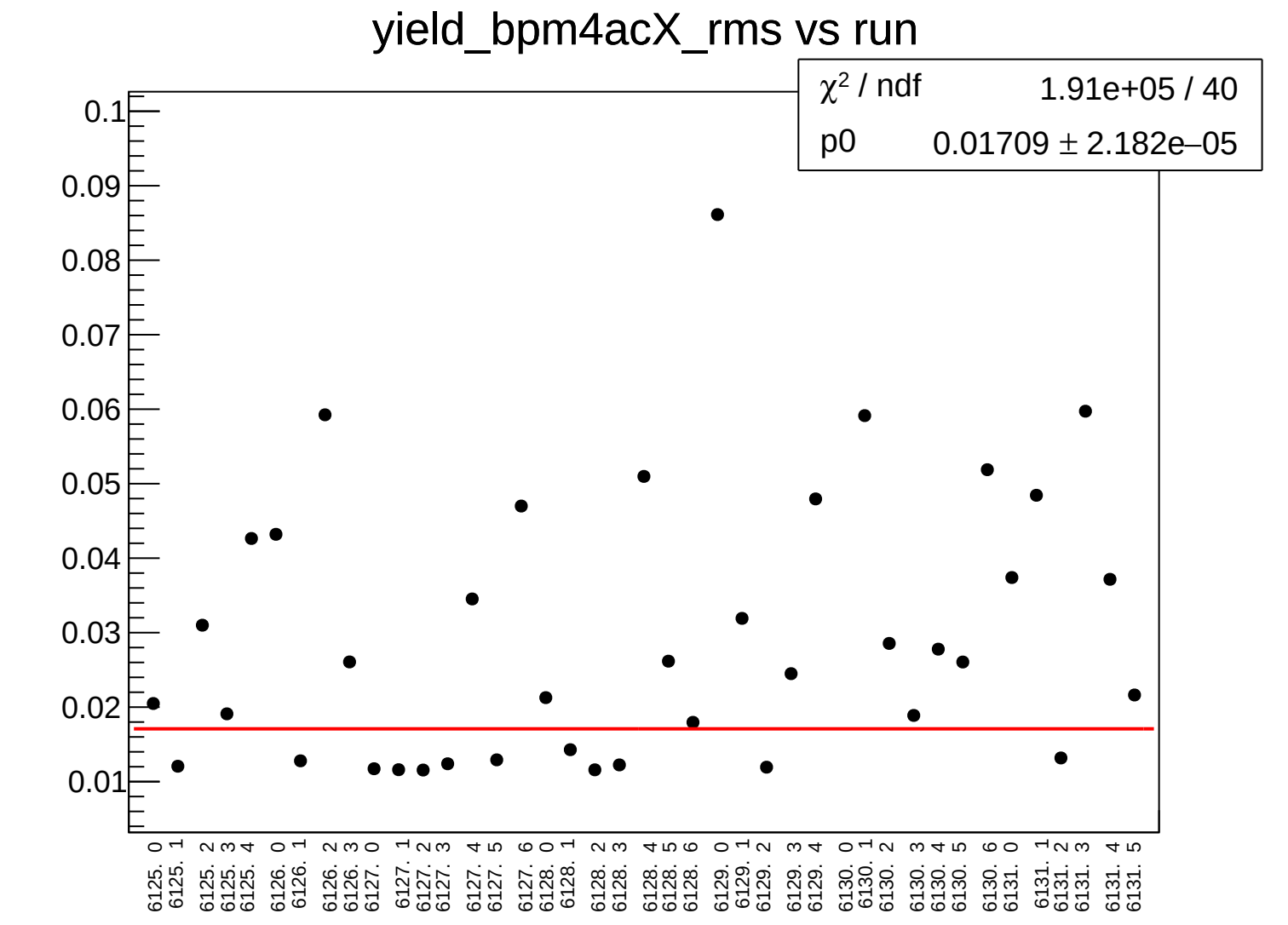

yield_bpm4eY_mean vs run
χ² / ndf 1.684e+05 / 40
p0 0.3246 ± 2.087e−05
0.35
0.34
0.33
0.32
0.31
0.3
0.29
0.28
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 46.36
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

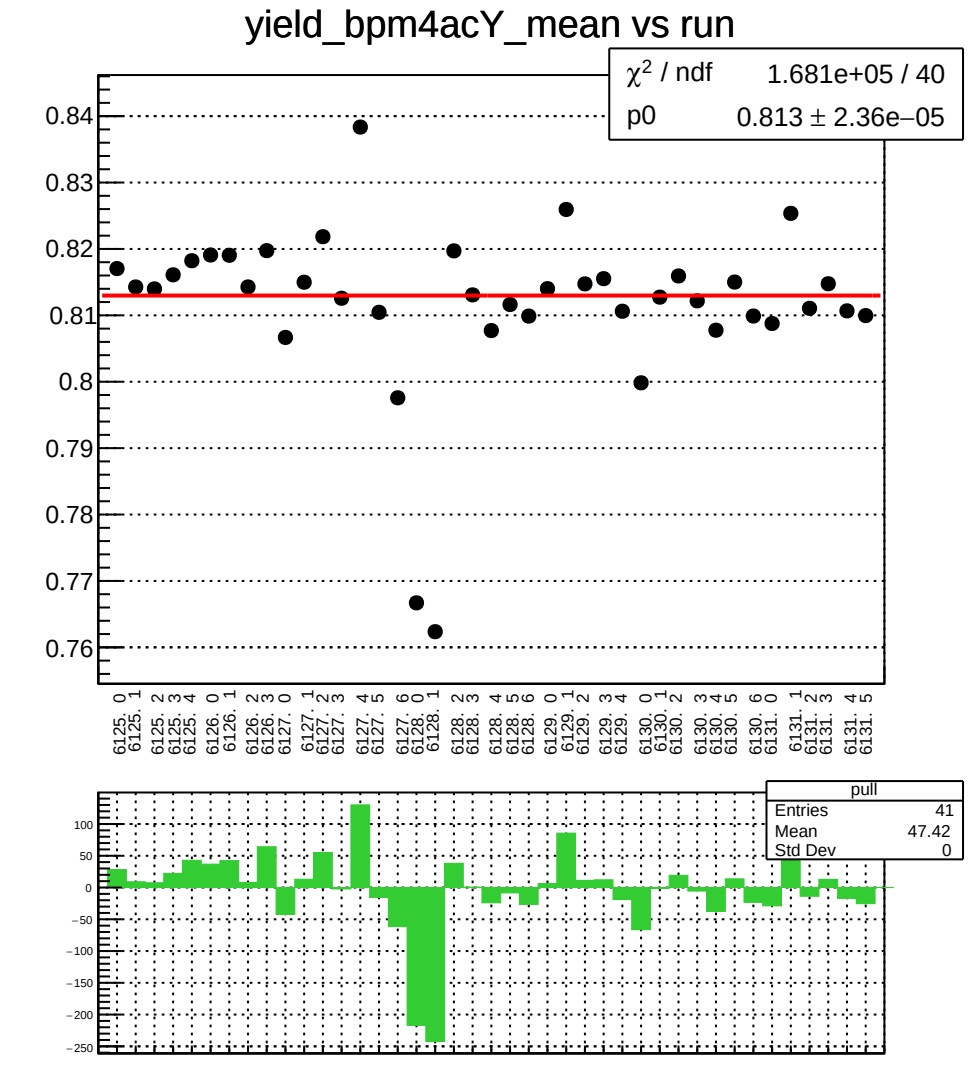

pull1D
Entries 41
Mean −1.234
Std Dev 3.937
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

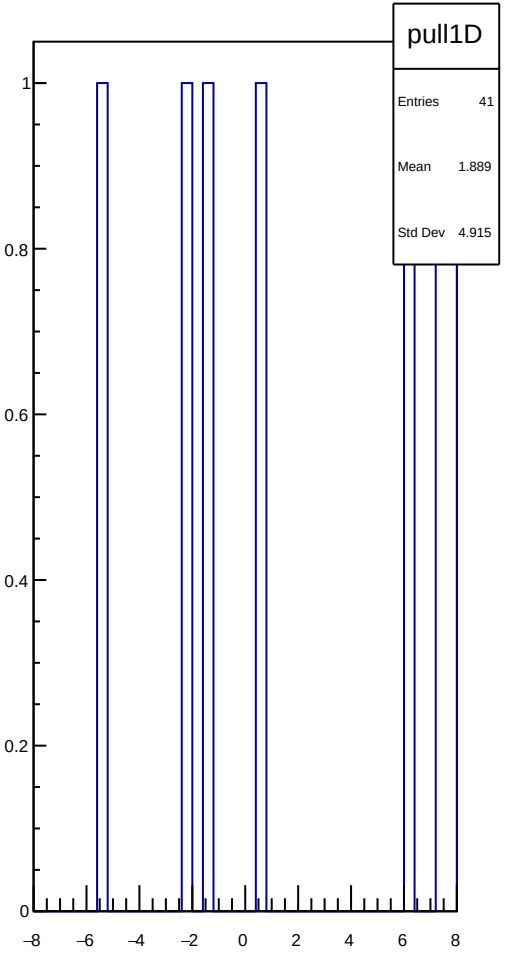

yield_bpm4eY_rms vs run
χ² / ndf 1.763e+04 / 40
p0 0.01309 ± 1.476e–05
0.022
0.02
0.018
0.016
0.014
0.012
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

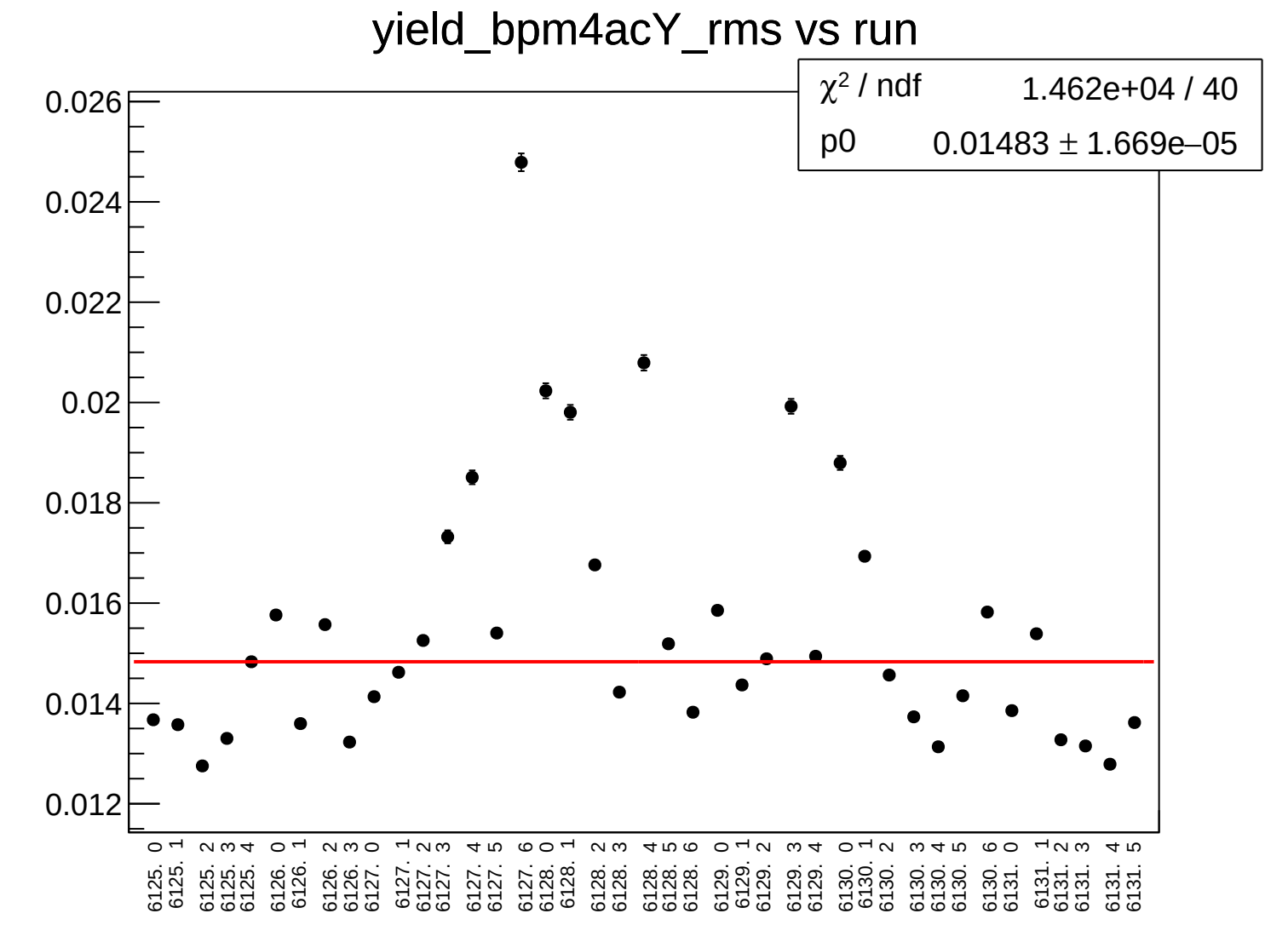

yield_bpm4acX_mean vs run
χ² / ndf 5.72e+04 / 40
p0 −0.7787 ± 3.086e−05
−0.74
−0.75
−0.76
−0.77
−0.78
−0.79
−0.8
−0.81
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 25.51
Std Dev 19.12
60
40
20
0
−20
−40
−60
−80
−100

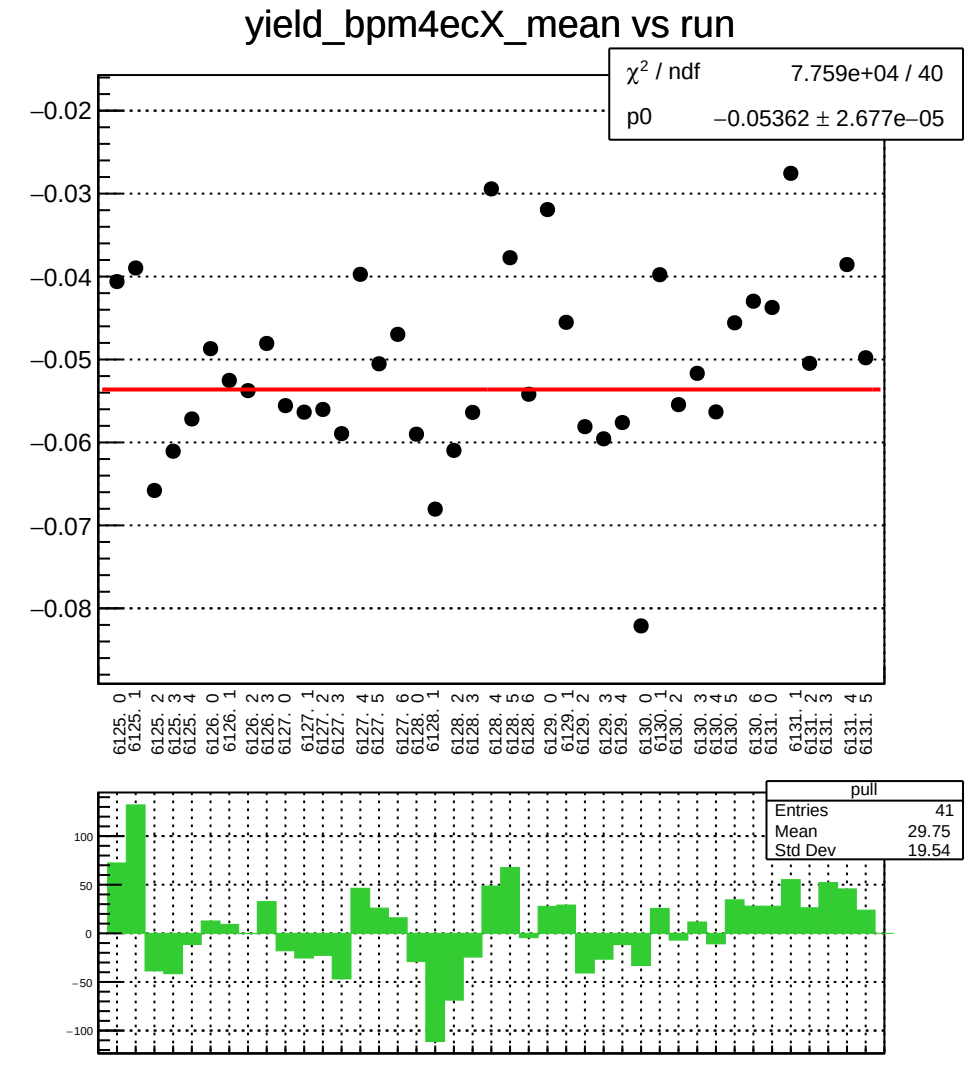

pull1D
Entries 41
Mean −2.539
Std Dev 4.035
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

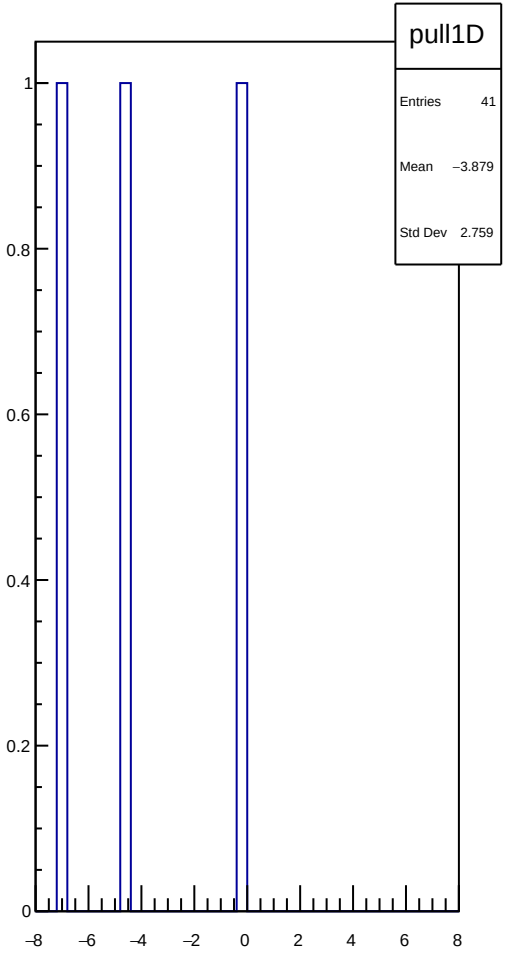

yield_bpm4acX_rms vs run
χ² / ndf 1.91e+05 / 40
p0 0.01709 ± 2.182e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

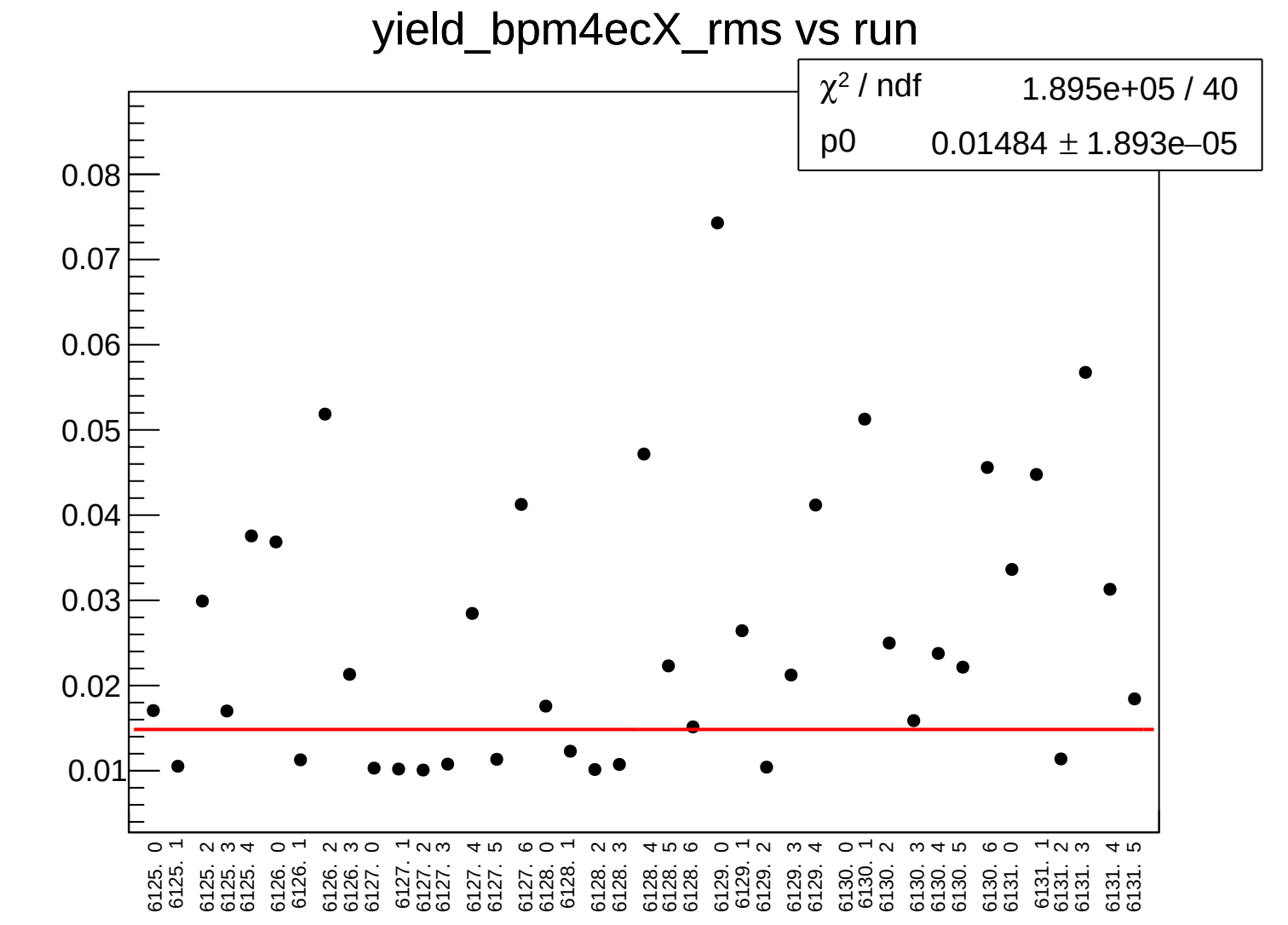

yield_bpm4acY_mean vs run
χ² / ndf 1.681e+05 / 40
p0 0.813 ± 2.36e−05
0.84
0.83
0.82
0.81
0.8
0.79
0.78
0.77
0.76
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 47.42
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

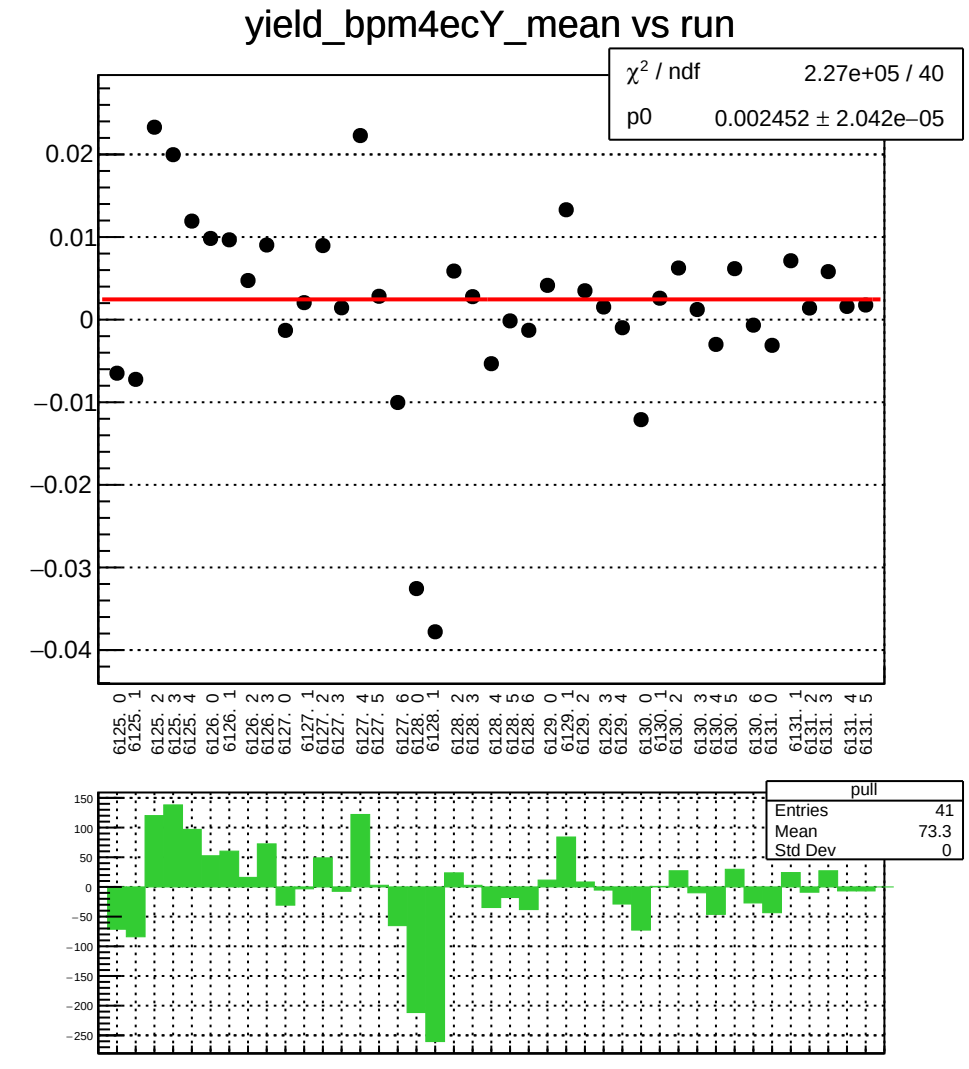

pull1D
Entries 41
Mean 1.889
Std Dev 4.915
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

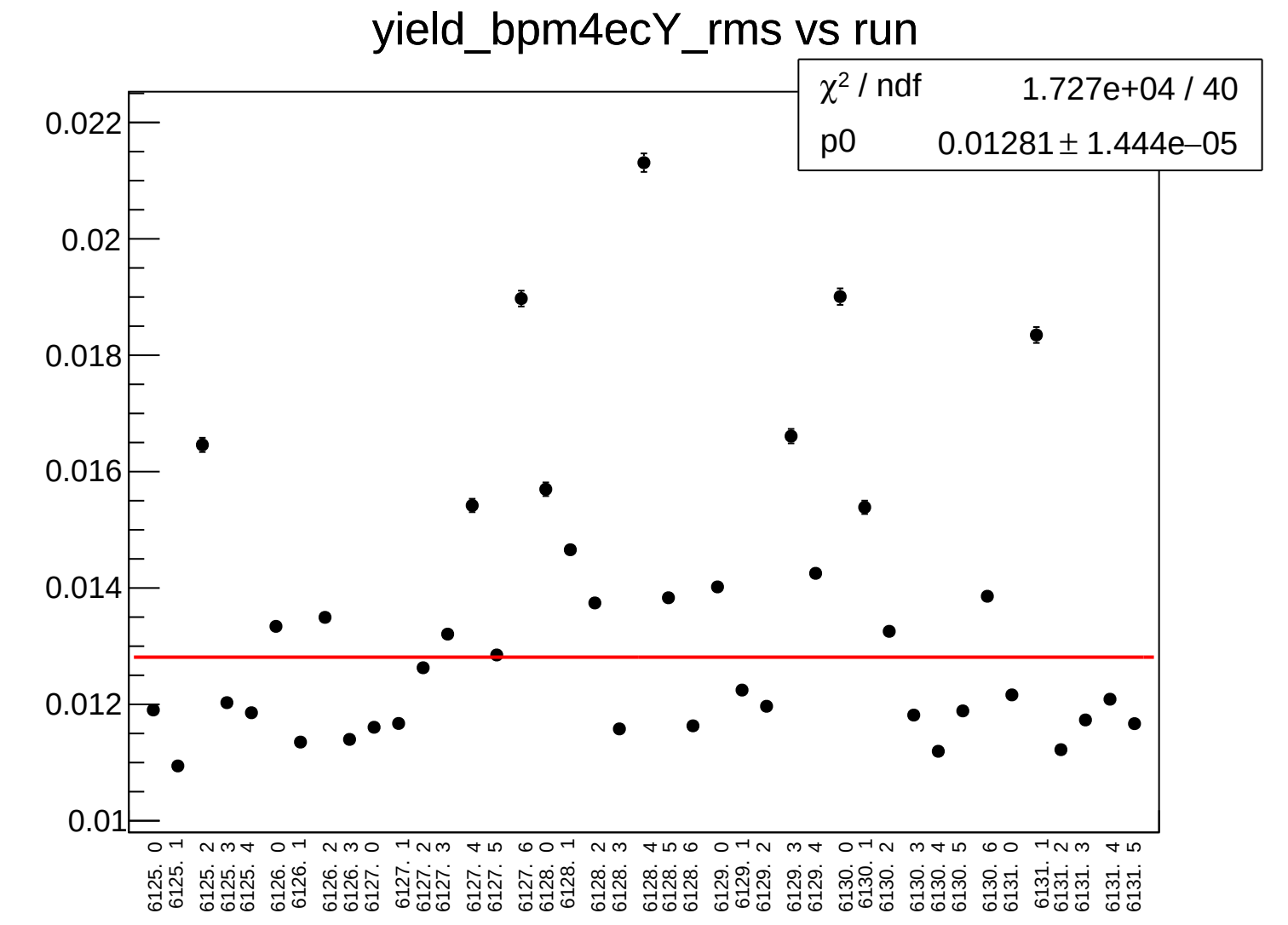

yield_bpm4acY_rms vs run
χ² / ndf 1.462e+04 / 40
p0 0.01483 ± 1.669e–05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

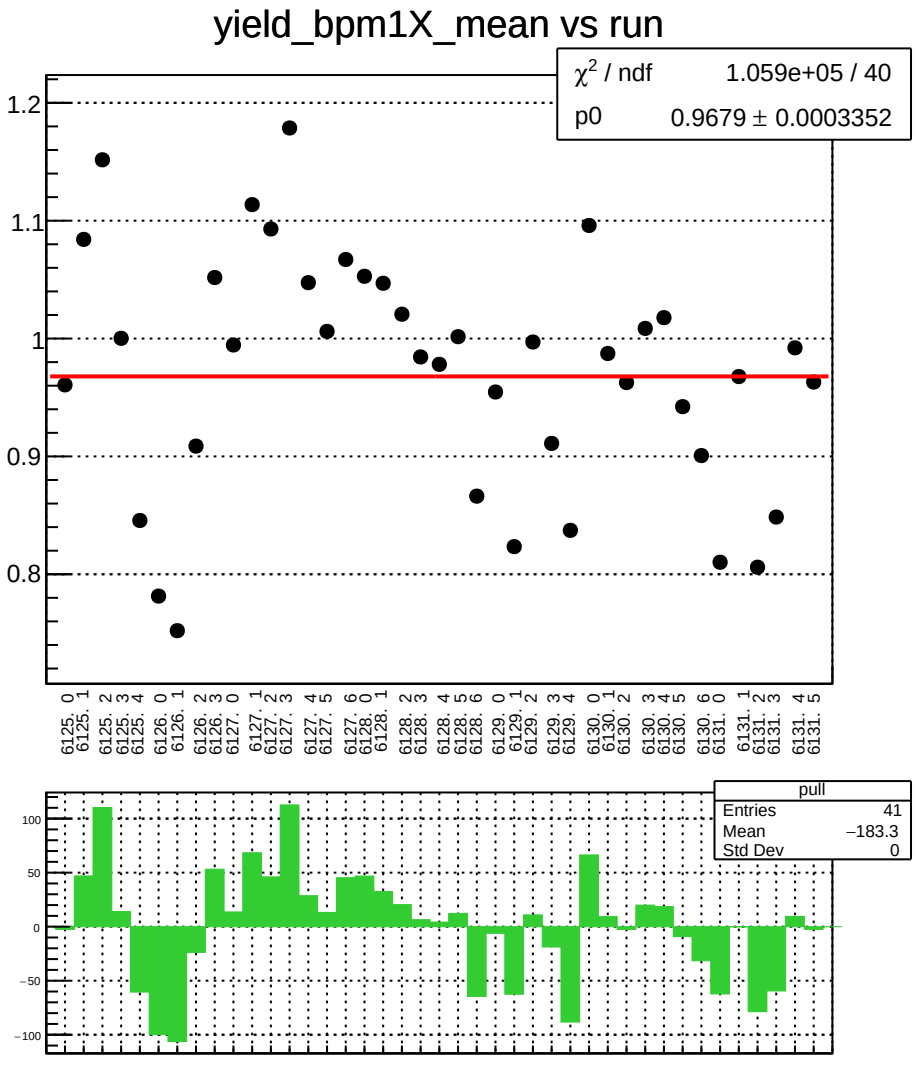

yield_bpm4ecX_mean vs run
χ² / ndf 7.759e+04 / 40
p0 −0.05362 ± 2.677e−05
−0.02
−0.03
−0.04
−0.05
−0.06
−0.07
−0.08
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 29.75
Std Dev 19.54
100
50
0
−50
−100

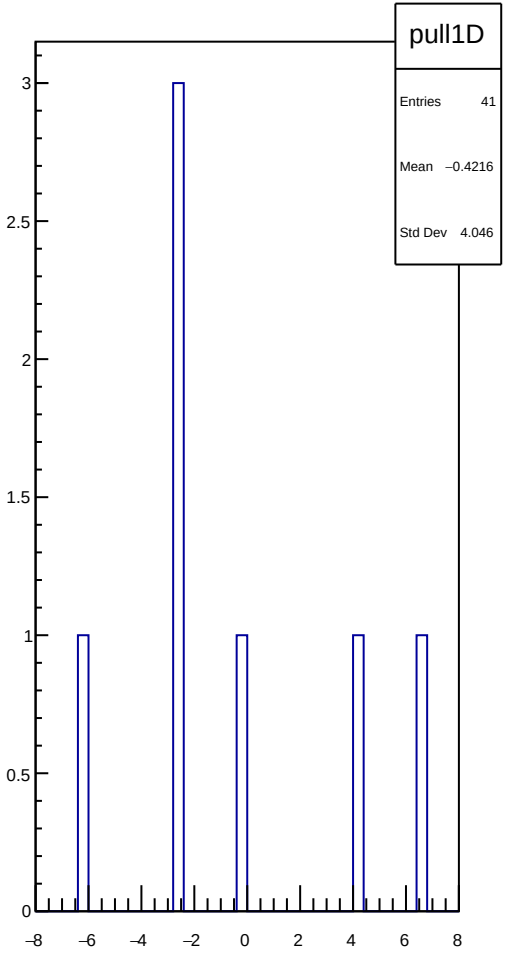

pull1D
Entries 41
Mean −3.879
Std Dev 2.759
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

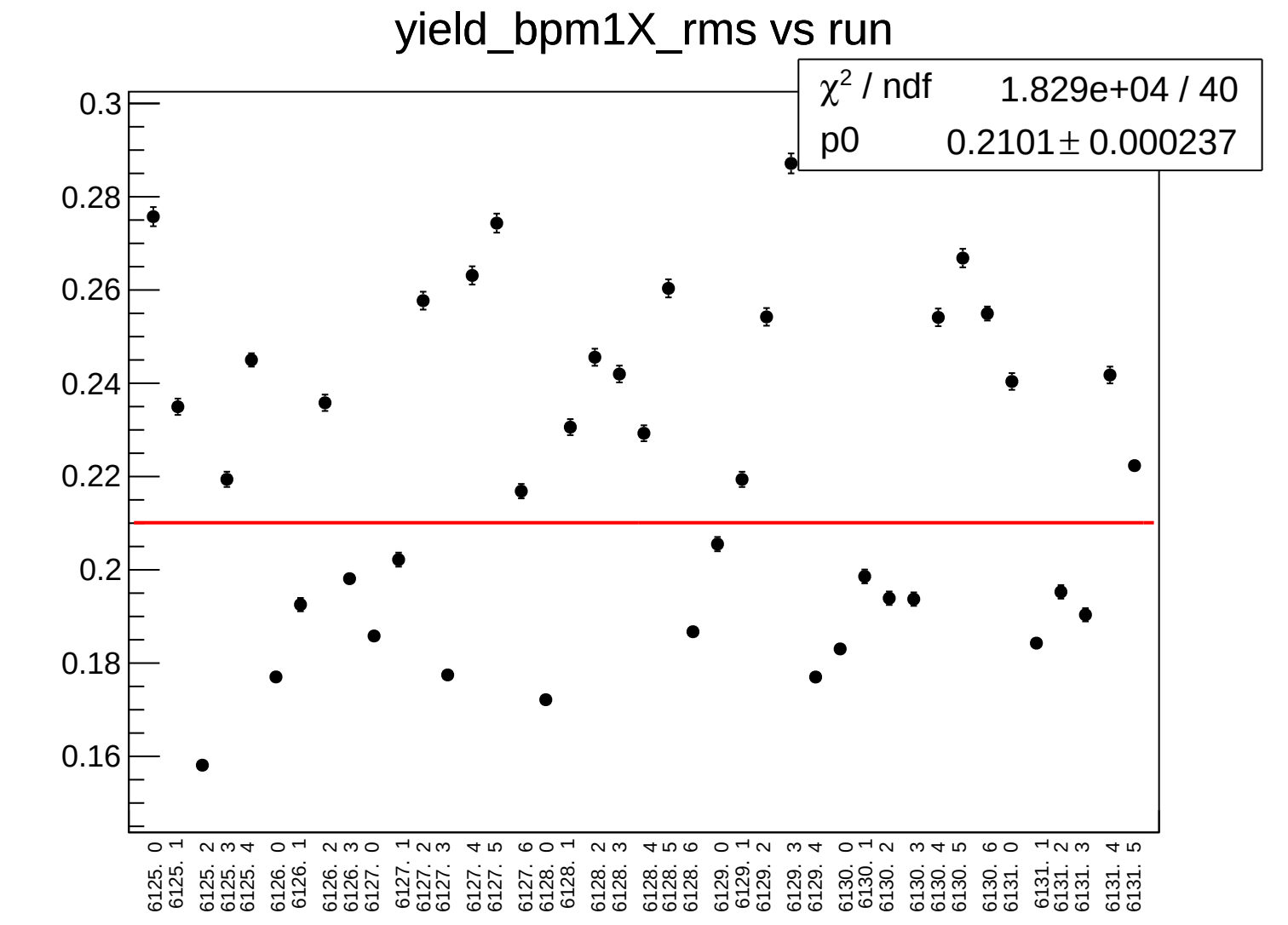

yield_bpm4ecX_rms vs run
χ² / ndf 1.895e+05 / 40
p0 0.01484 ± 1.893e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

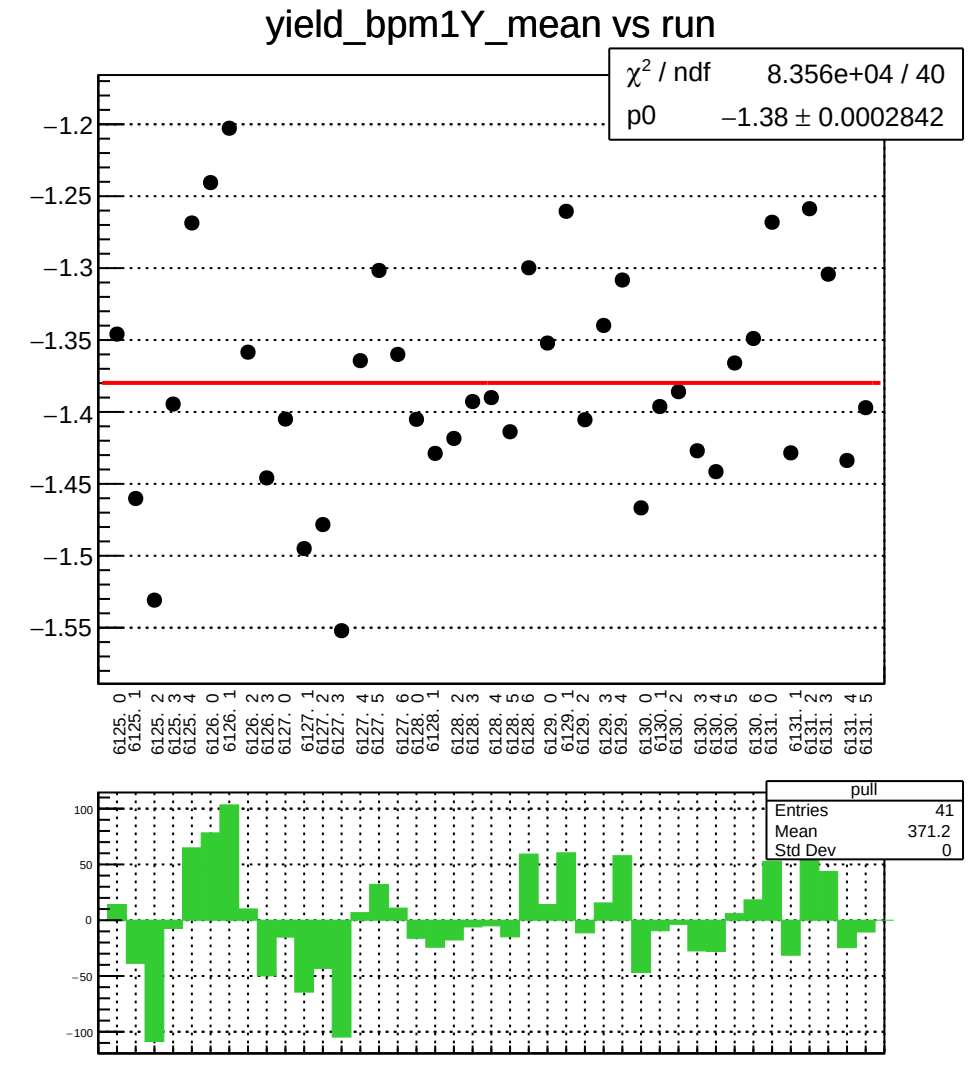

yield_bpm4ecY_mean vs run
χ² / ndf 2.27e+05 / 40
p0 0.002452 ± 2.042e−05
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 73.3
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250
pull1D
Entries 41
Mean −2.846
Std Dev 4.063
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

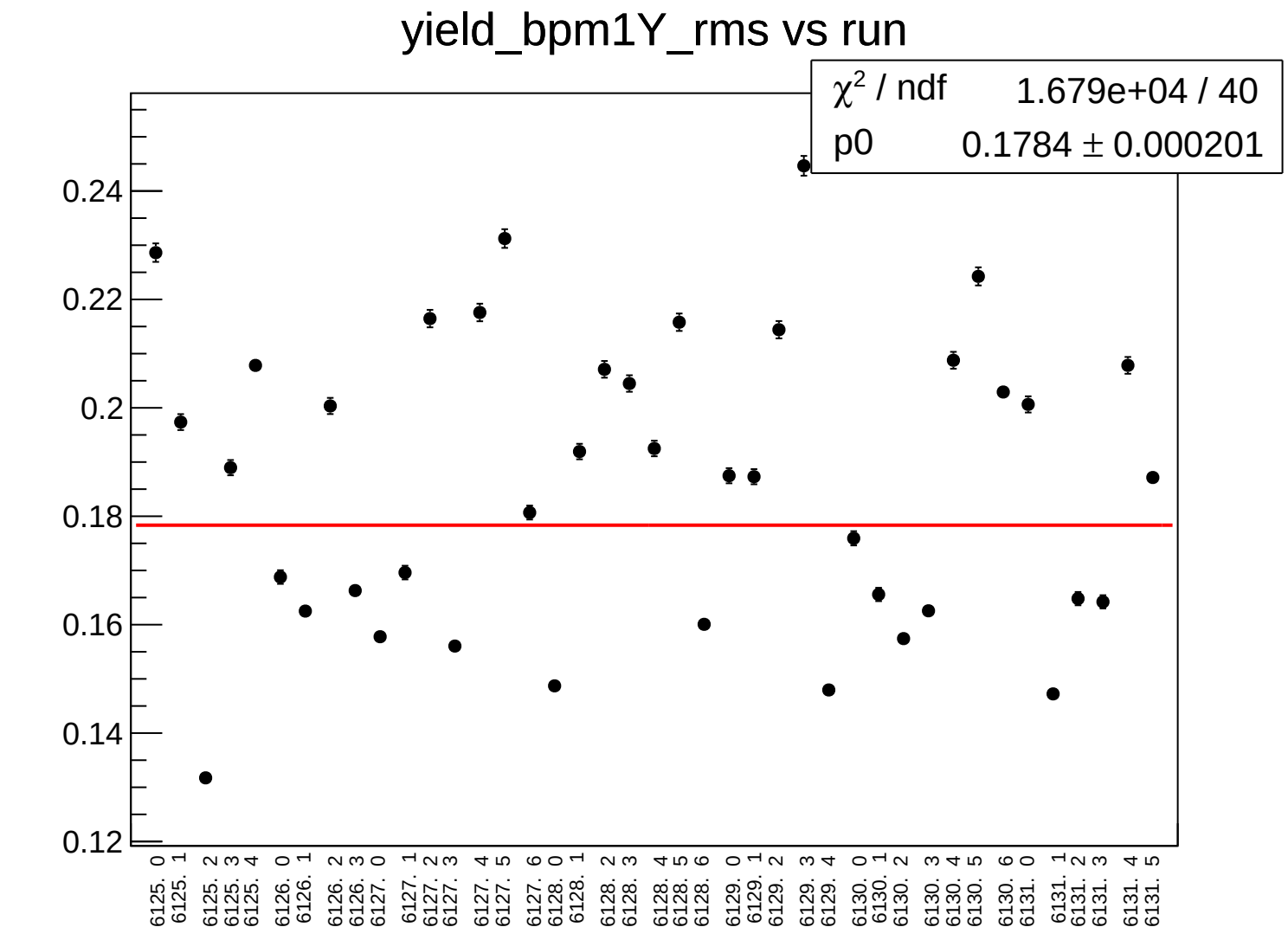

yield_bpm4ecY_rms vs run
χ² / ndf 1.727e+04 / 40
p0 0.01281 ± 1.444e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

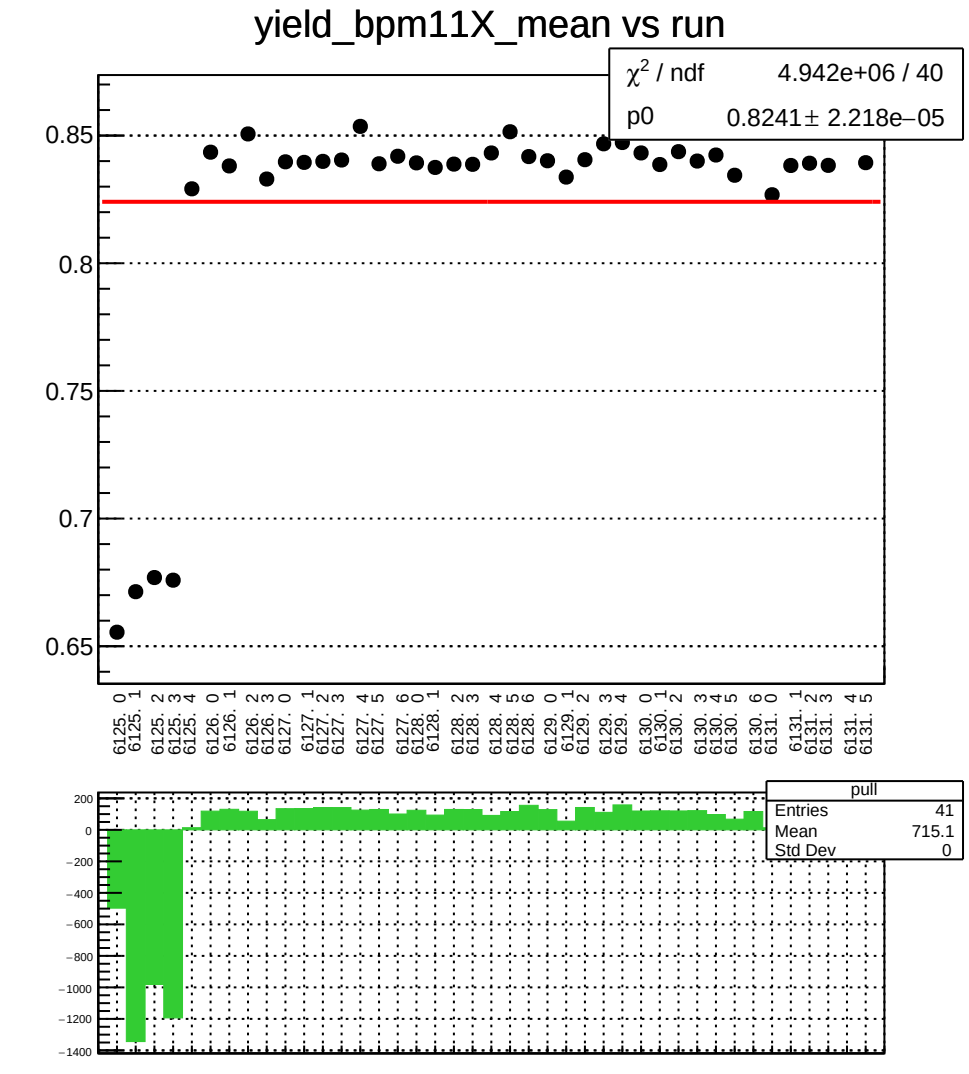

yield_bpm1X_mean vs run
χ² / ndf 1.059e+05 / 40
p0 0.9679 ± 0.0003352
1.2
1.1
1
0.9
0.8
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −183.3
Std Dev 0
100
50
0
−50
−100

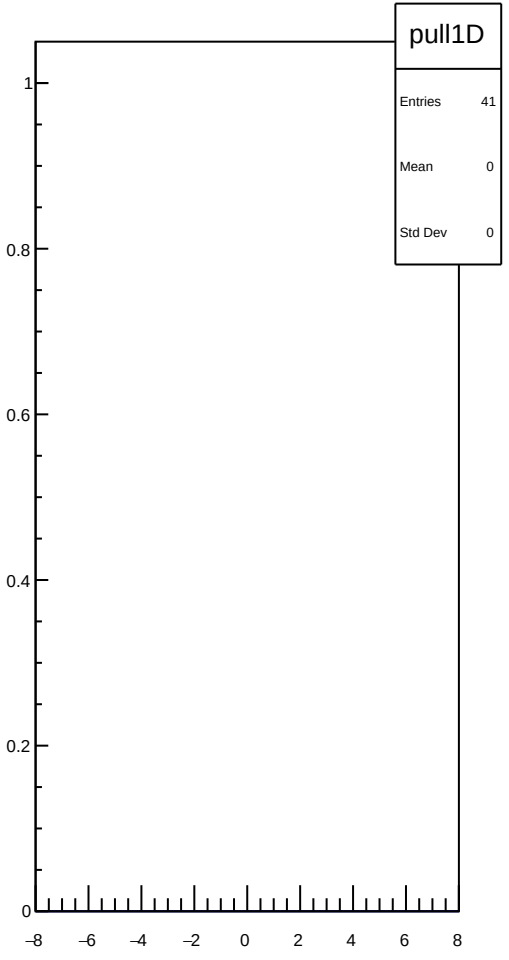

pull1D
Entries 41
Mean −0.4216
Std Dev 4.046
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

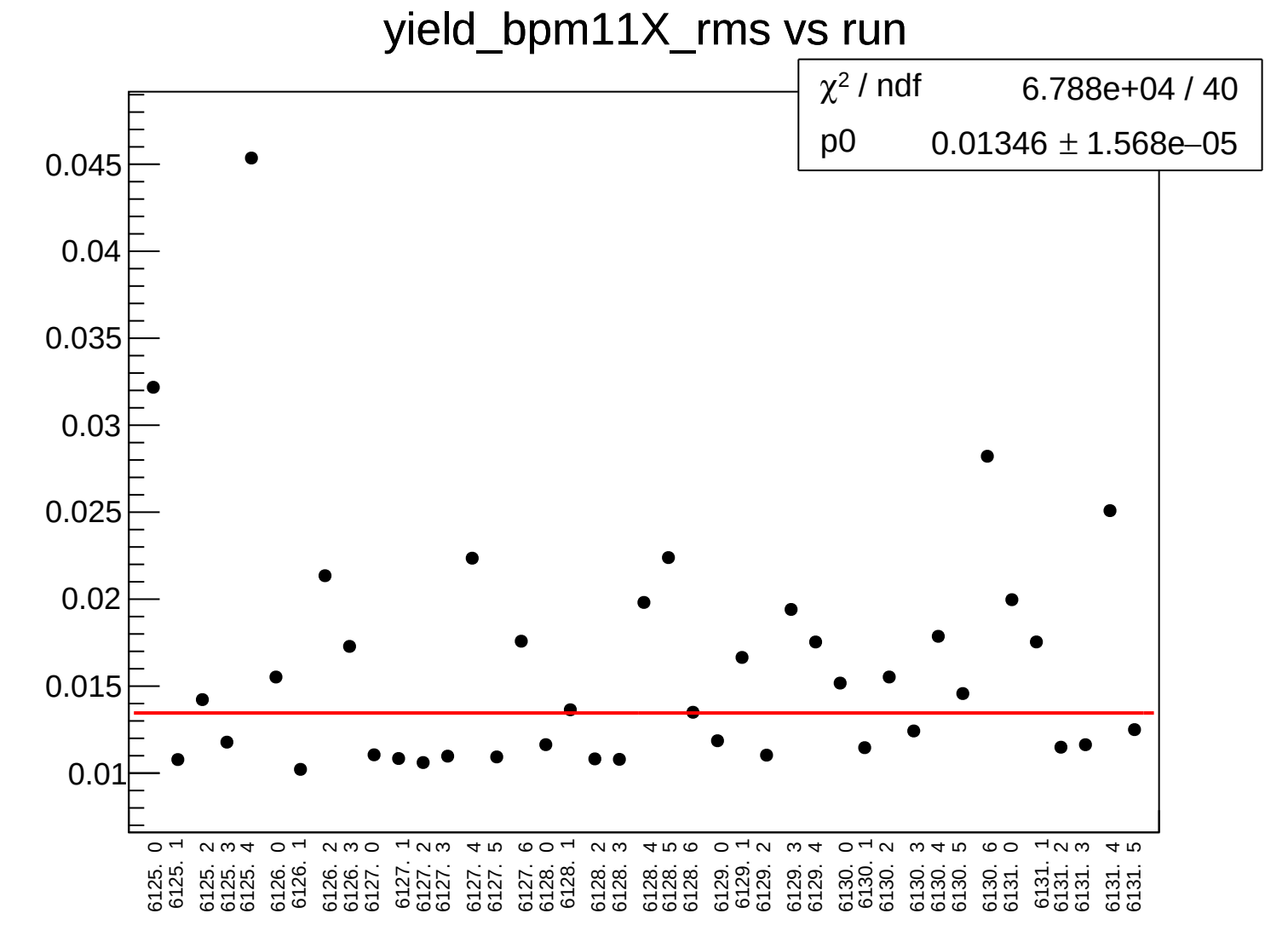

yield_bpm1X_rms vs run
χ² / ndf 1.829e+04 / 40
p0 0.2101 ± 0.000237
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

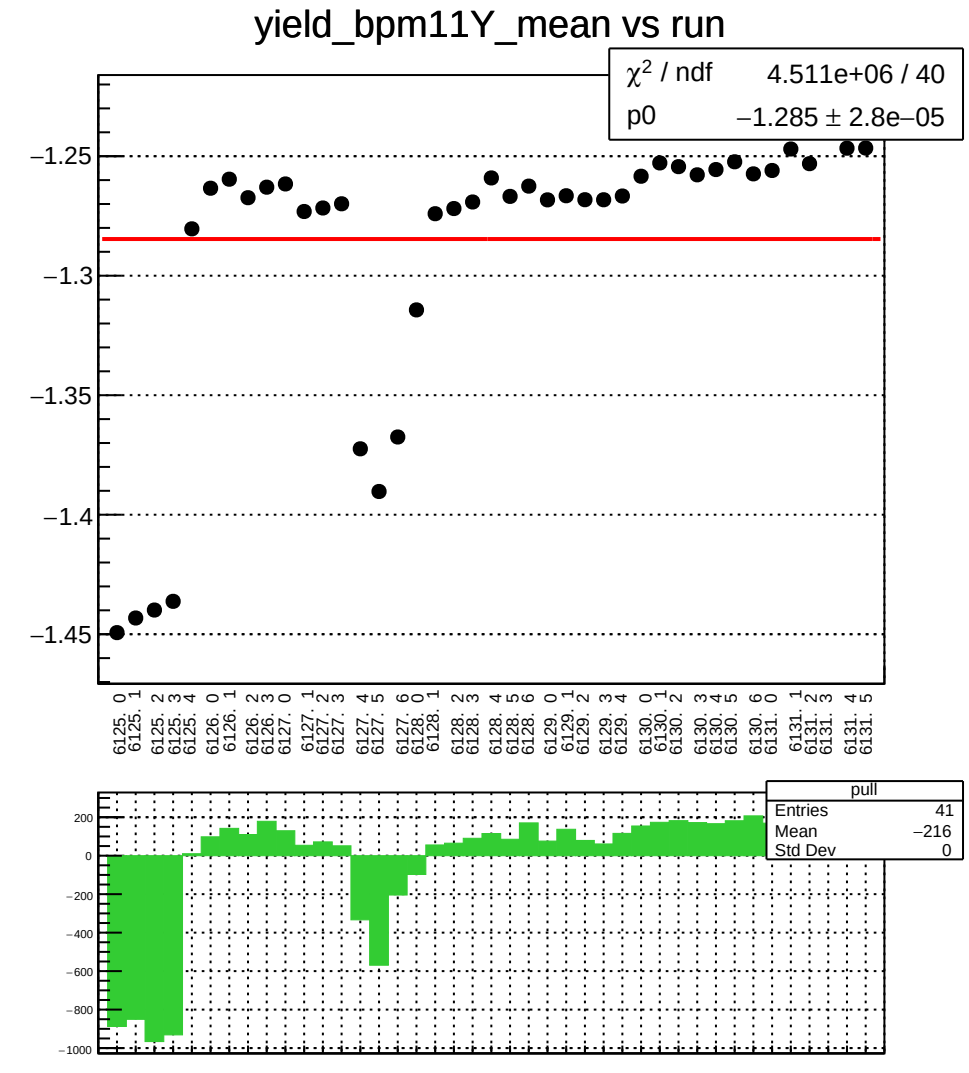

yield_bpm1Y_mean vs run
χ² / ndf 8.356e+04 / 40
p0 −1.38 ± 0.0002842
−1.2
−1.25
−1.3
−1.35
−1.4
−1.45
−1.5
−1.55
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 371.2
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 41
Mean −1.585
Std Dev 5.69
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

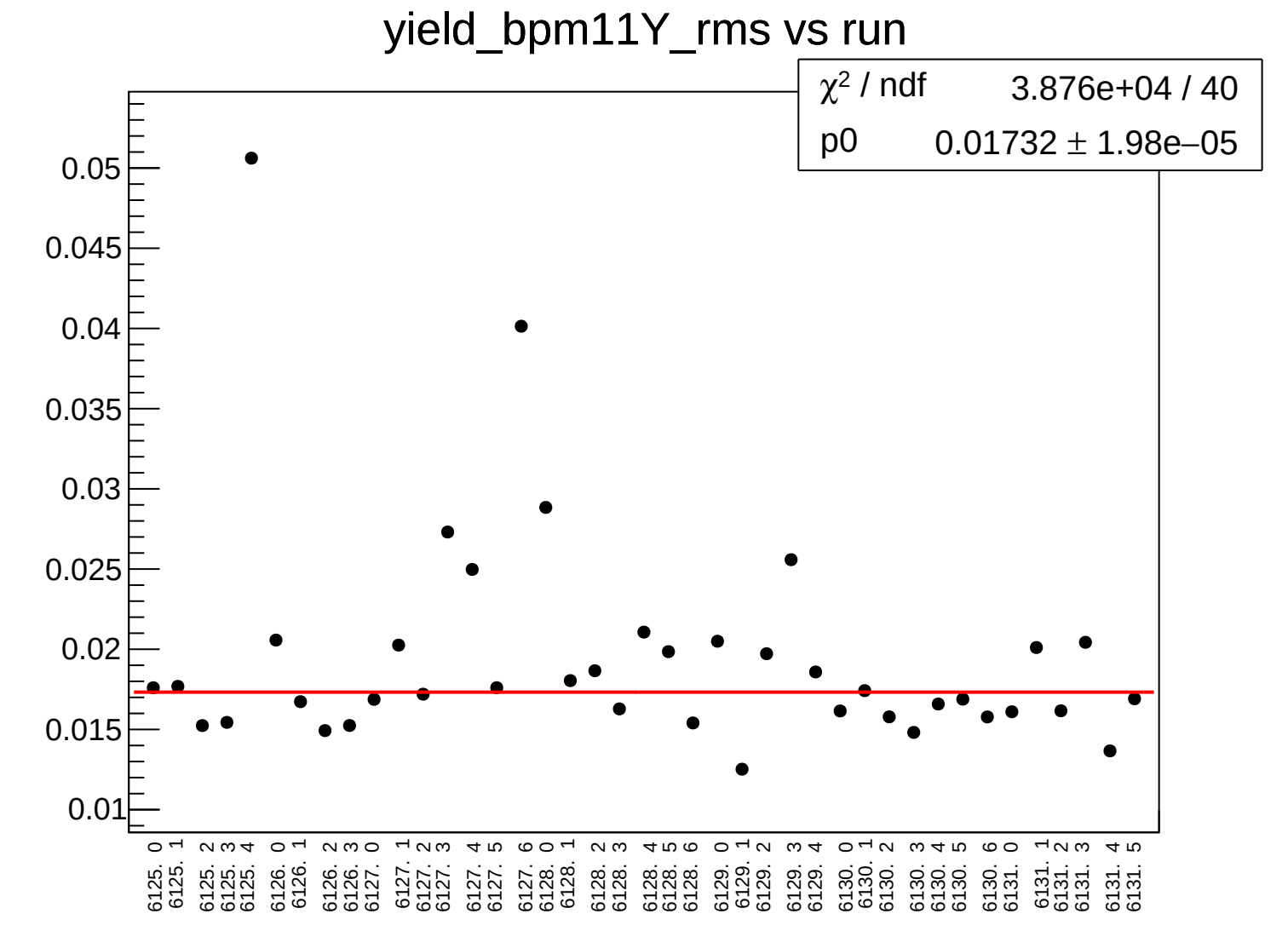

yield_bpm1Y_rms vs run
χ² / ndf 1.679e+04 / 40
p0 0.1784 ± 0.000201
0.24
0.22
0.2
0.18
0.16
0.14
0.12
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

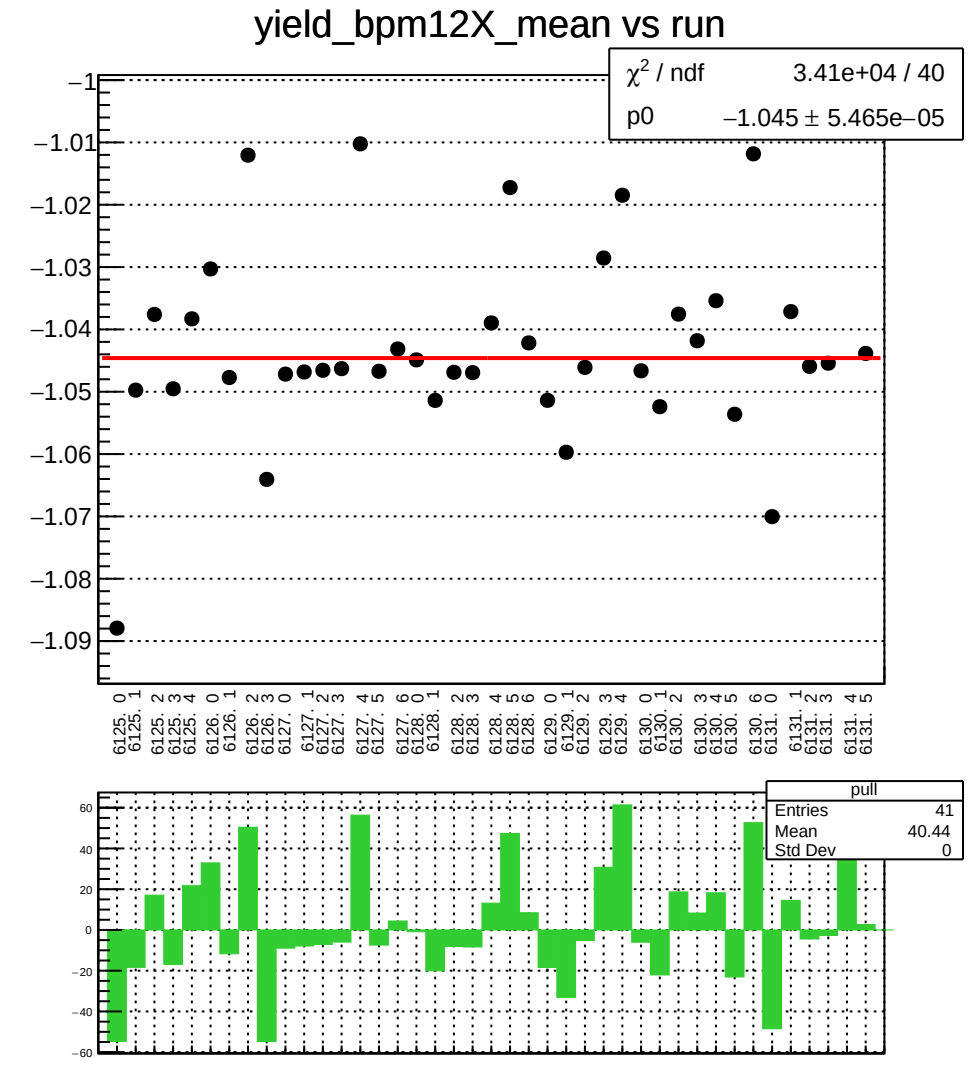

yield_bpm11X_mean vs run
χ² / ndf 4.942e+06 / 40
p0 0.8241 ± 2.218e−05
0.85
0.8
0.75
0.7
0.65
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 715.1
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400

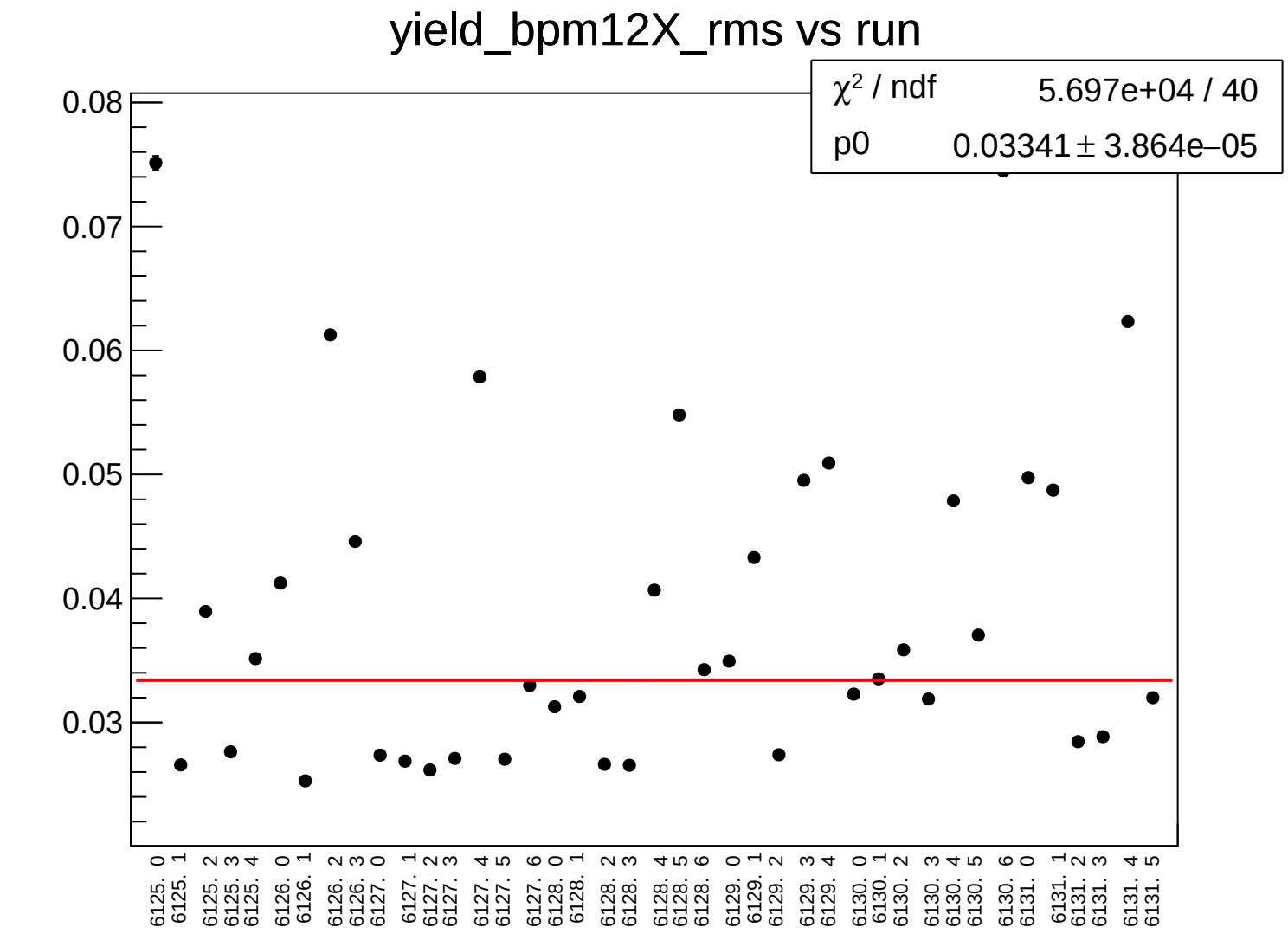

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

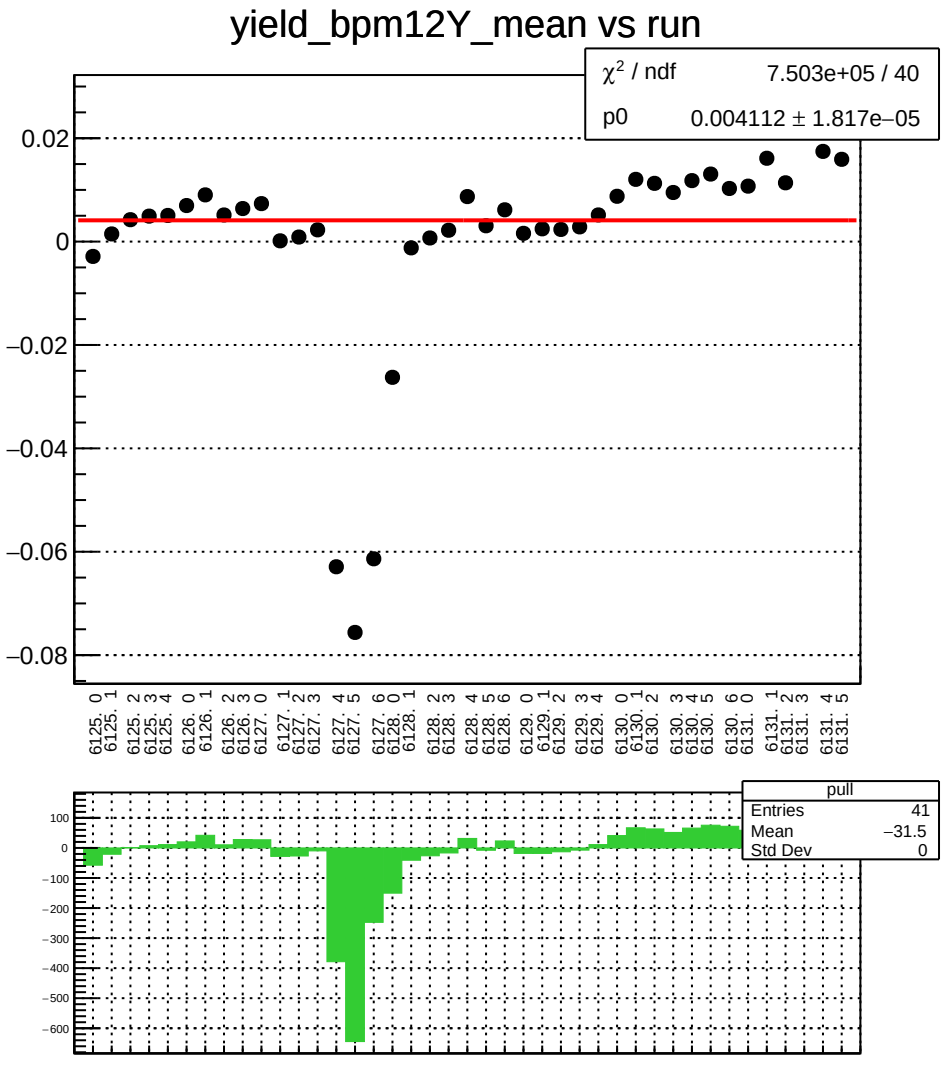

yield_bpm11X_rms vs run
χ² / ndf 6.788e+04 / 40
p0 0.01346 ± 1.568e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

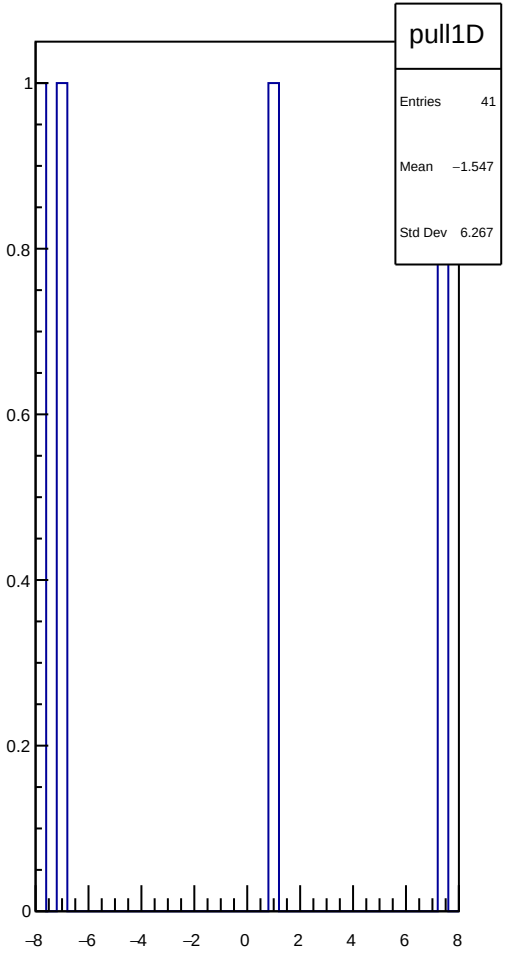

yield_bpm11Y_mean vs run
χ² / ndf 4.511e+06 / 40
p0 −1.285 ± 2.8e−05
−1.25
−1.3
−1.35
−1.4
−1.45
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −216
Std Dev 0
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

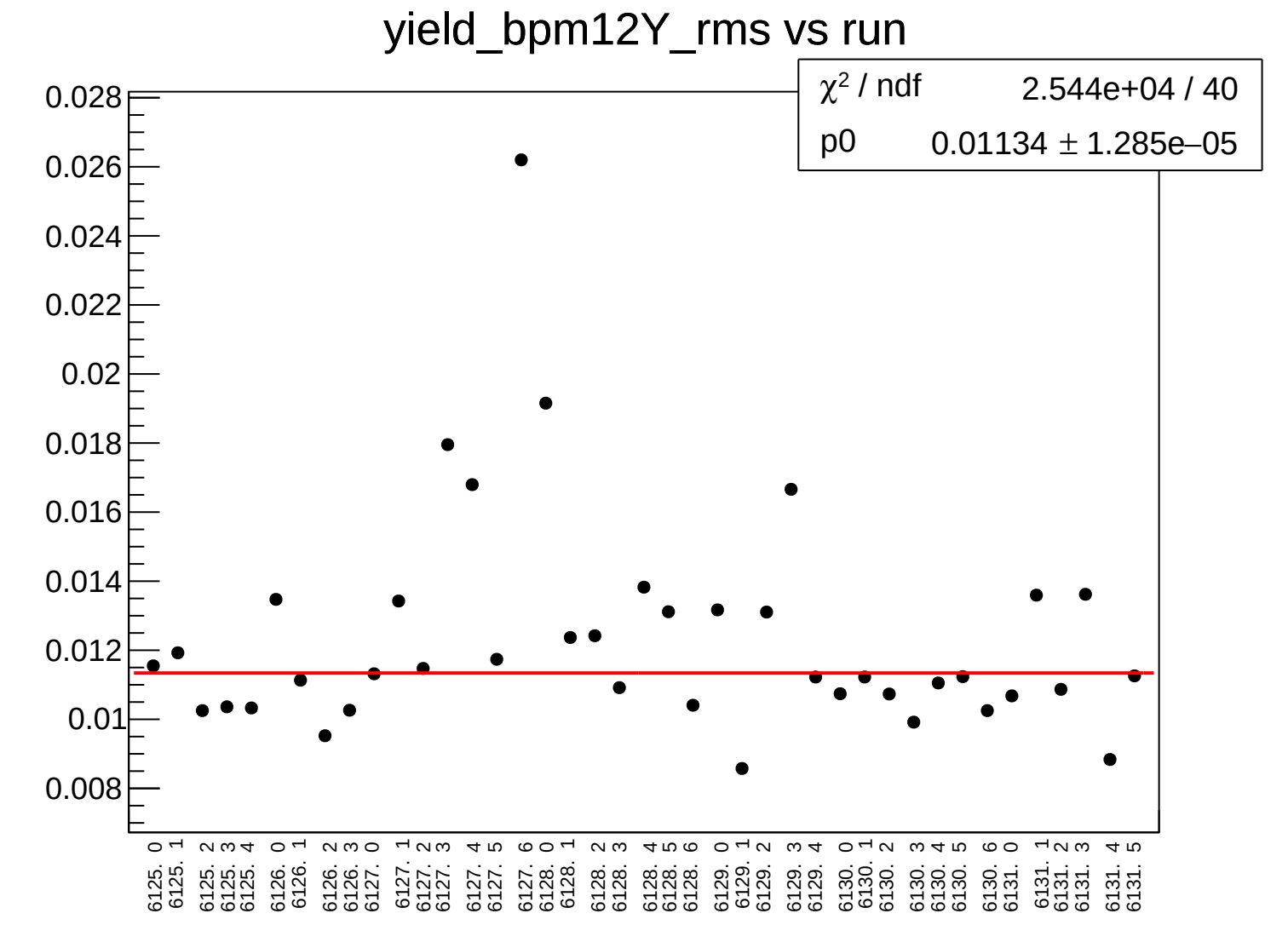

yield_bpm11Y_rms vs run
χ² / ndf 3.876e+04 / 40
p0 0.01732 ± 1.98e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

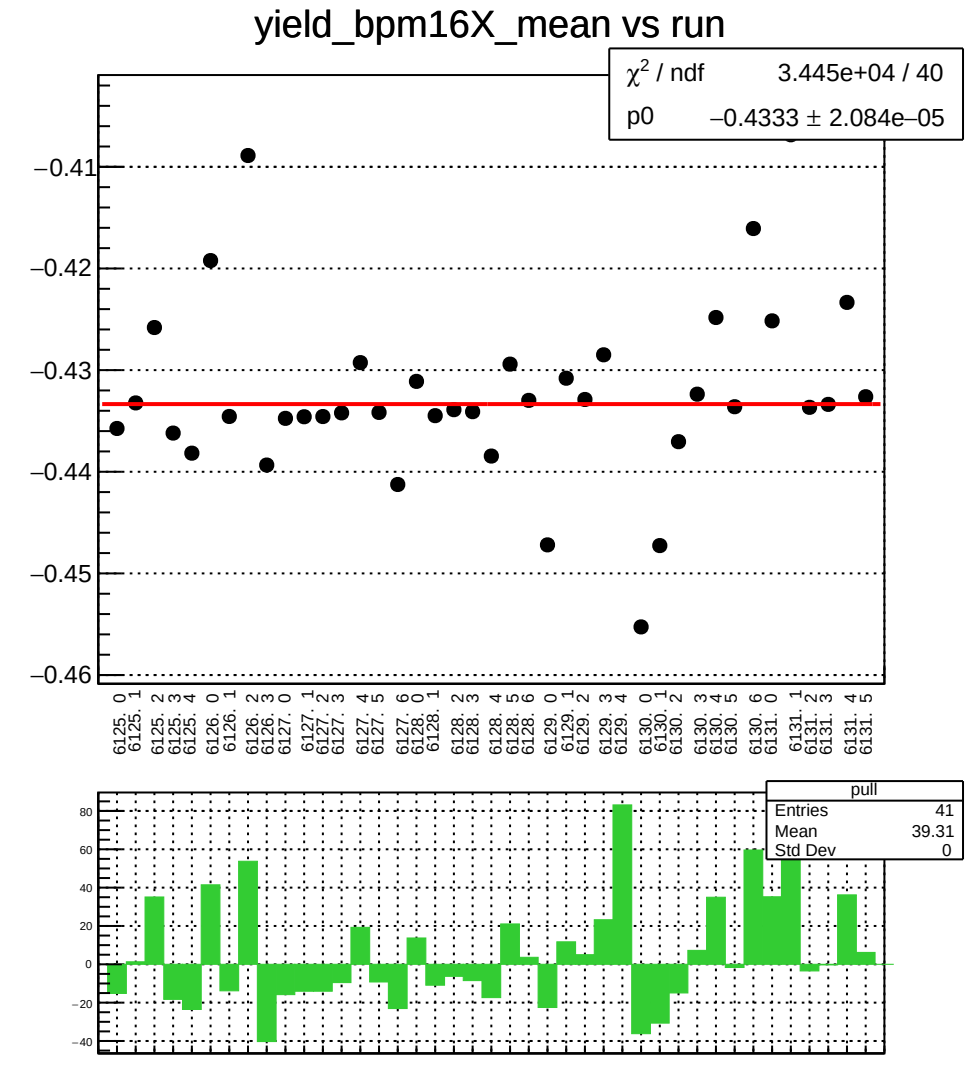

yield_bpm12X_mean vs run
χ² / ndf 3.41e+04 / 40
p0 −1.045 ± 5.465e−05
pull
Entries 41
Mean 40.44
Std Dev 0
pull1D
Entries 41
Mean −3.671
Std Dev 3.94

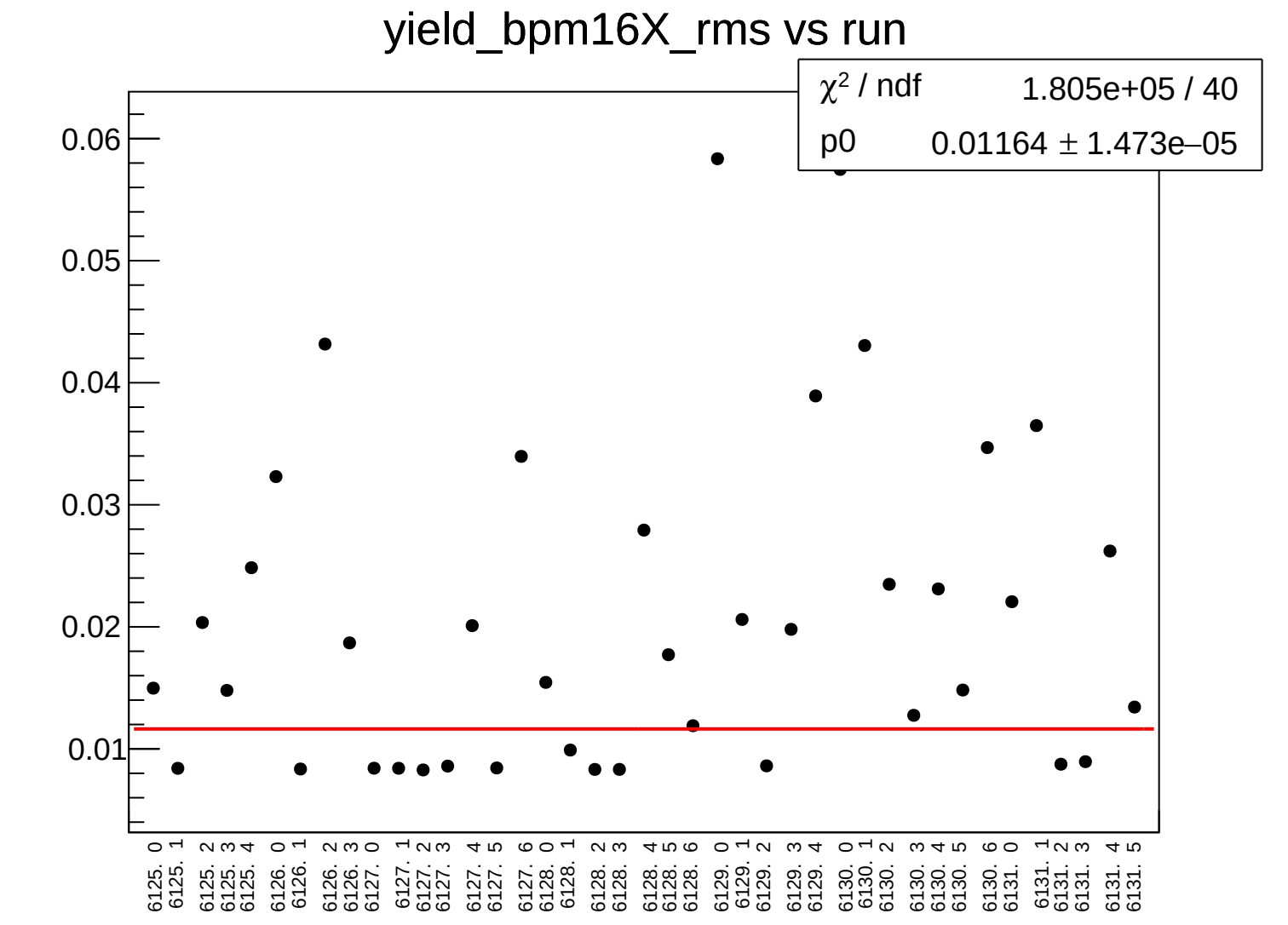

yield_bpm12X_rms vs run
χ² / ndf 5.697e+04 / 40
p0 0.03341 ± 3.864e–05
0.08
0.07
0.06
0.05
0.04
0.03
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

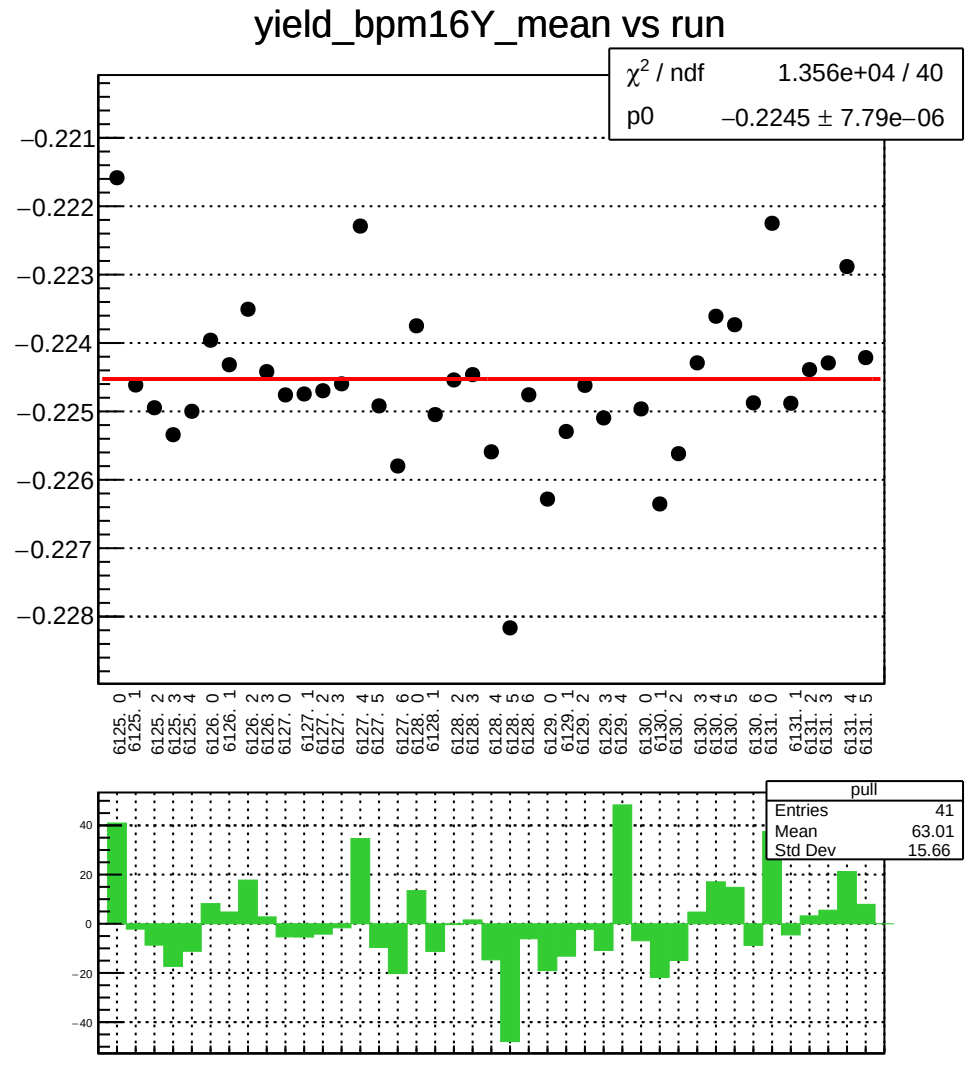

yield_bpm12Y_mean vs run
χ² / ndf 7.503e+05 / 40
p0 0.004112 ± 1.817e−05
0.02
0
−0.02
−0.04
−0.06
−0.08
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −31.5
Std Dev 0
100
0
−100
−200
−300
−400
−500
−600

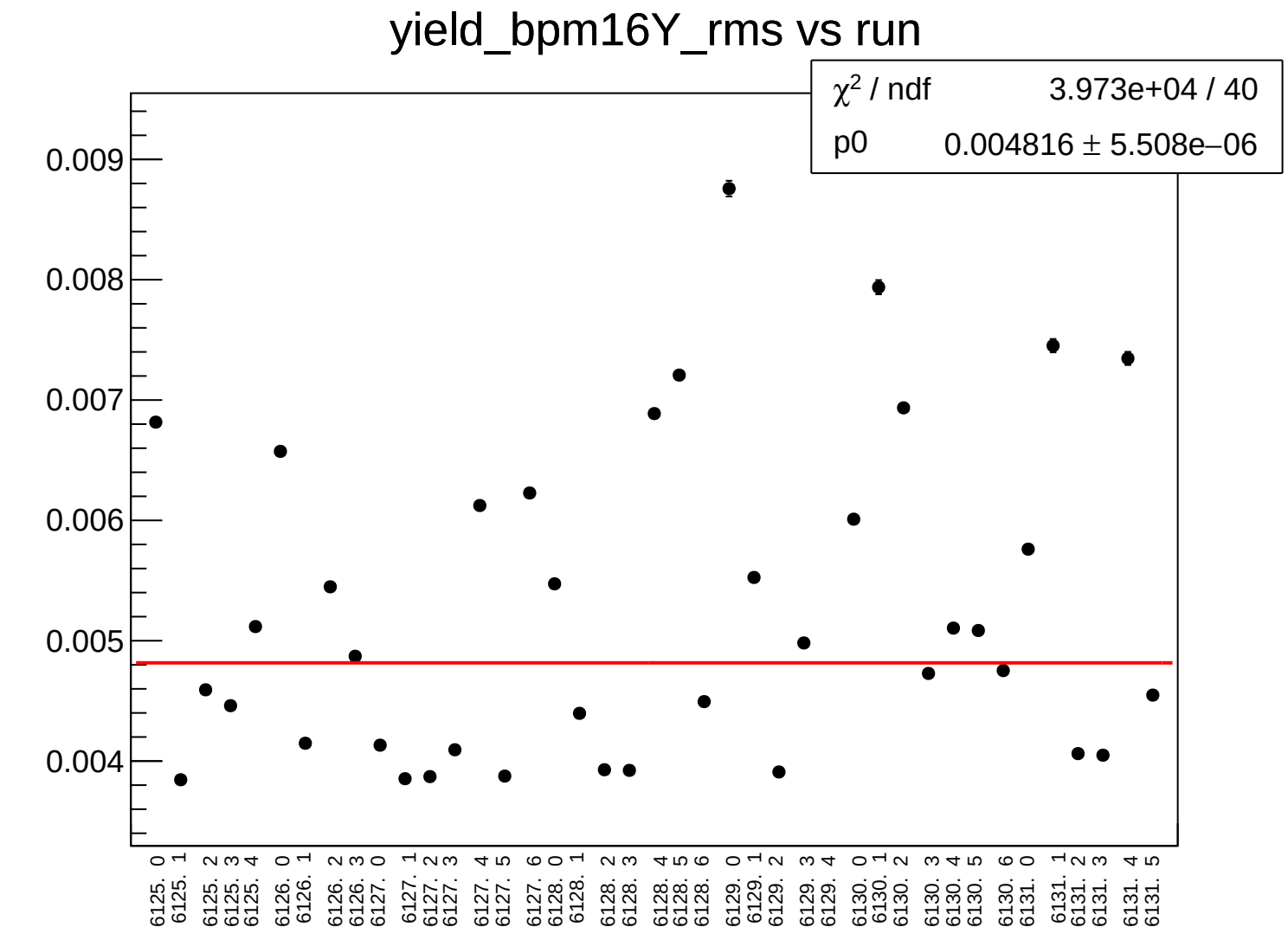

pull1D
Entries 41
Mean −1.547
Std Dev 6.267
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

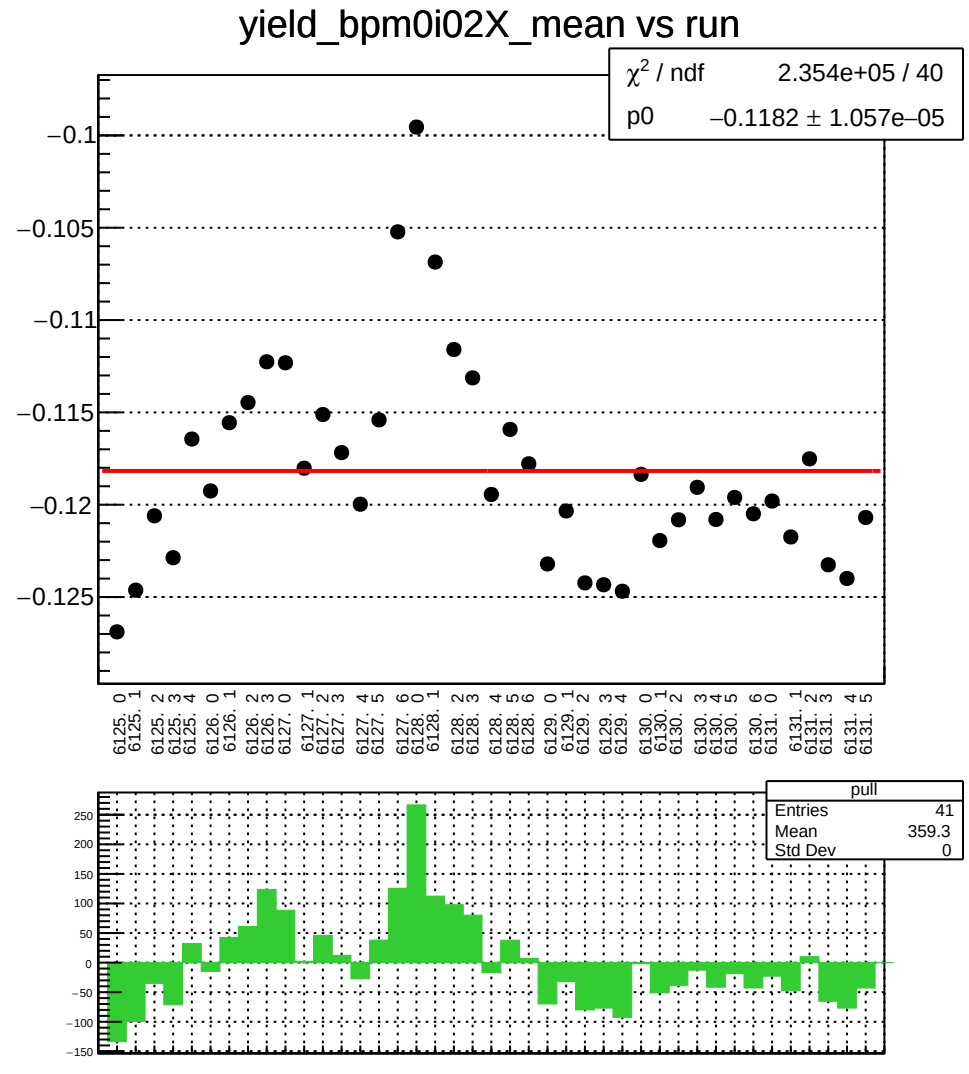

yield_bpm12Y_rms vs run
χ² / ndf 2.544e+04 / 40
p0 0.01134 ± 1.285e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

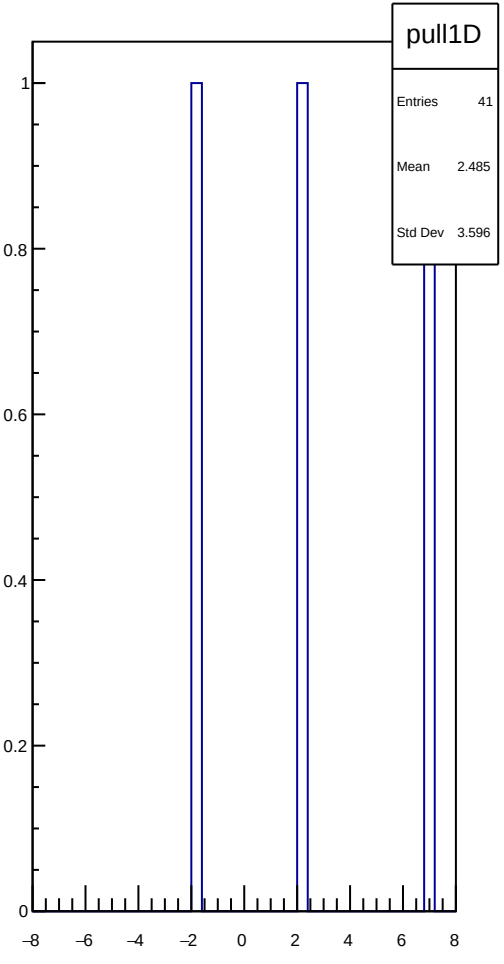

yield_bpm16X_mean vs run
χ² / ndf 3.445e+04 / 40
p0 −0.4333 ± 2.084e−05
−0.41
−0.42
−0.43
−0.44
−0.45
−0.46
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 39.31
Std Dev 0
80
60
40
20
0
−20
−40
pull1D
Entries 41
Mean 1.304
Std Dev 4.343
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

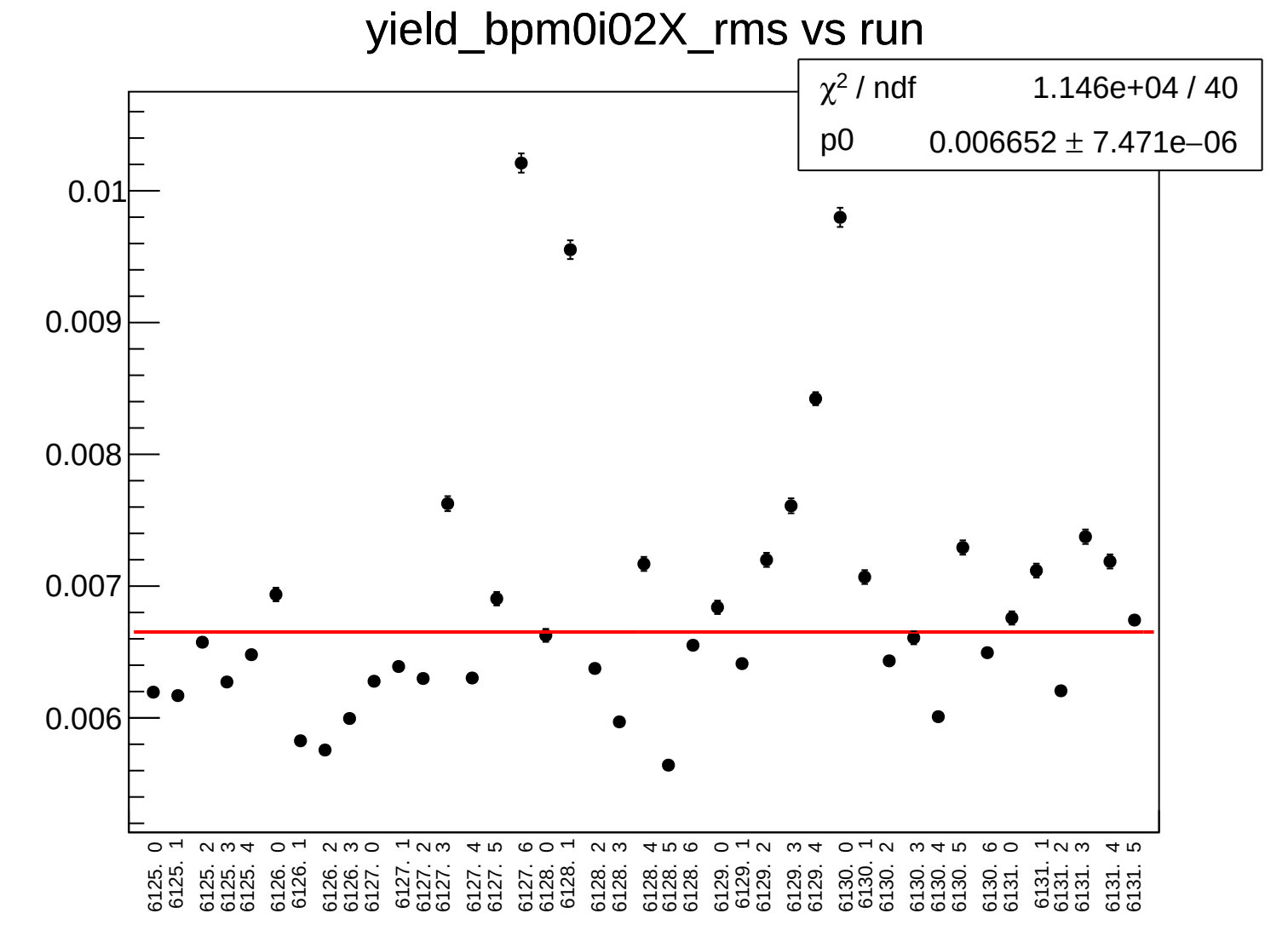

yield_bpm16X_rms vs run
χ² / ndf 1.805e+05 / 40
p0 0.01164 ± 1.473e−05
0.06
0.05
0.04
0.03
0.02
0.01
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

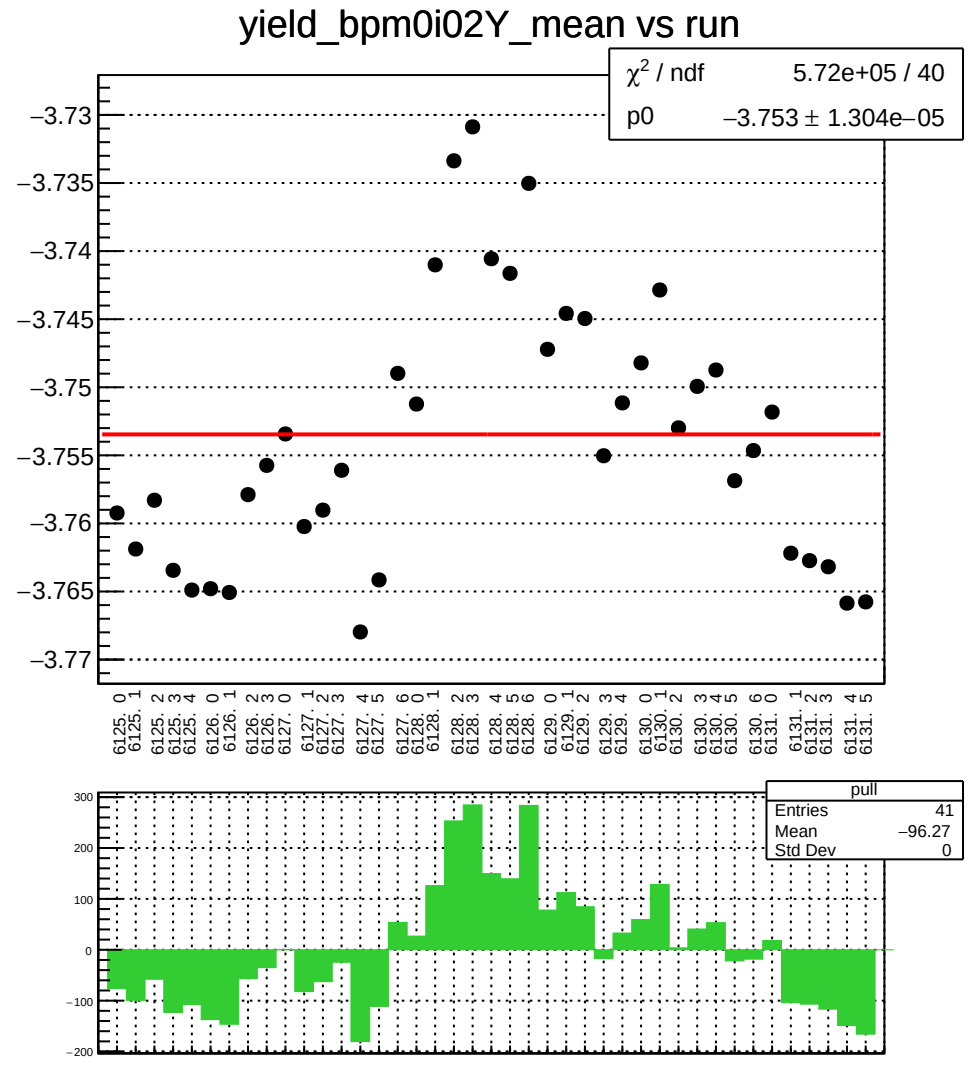

yield_bpm16Y_mean vs run
χ² / ndf 1.356e+04 / 40
p0 −0.2245 ± 7.79e−06
−0.221
−0.222
−0.223
−0.224
−0.225
−0.226
−0.227
−0.228
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 63.01
Std Dev 15.66
40
20
0
−20
−40
pull1D
Entries 41
Mean −0.4973
Std Dev 4.52
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

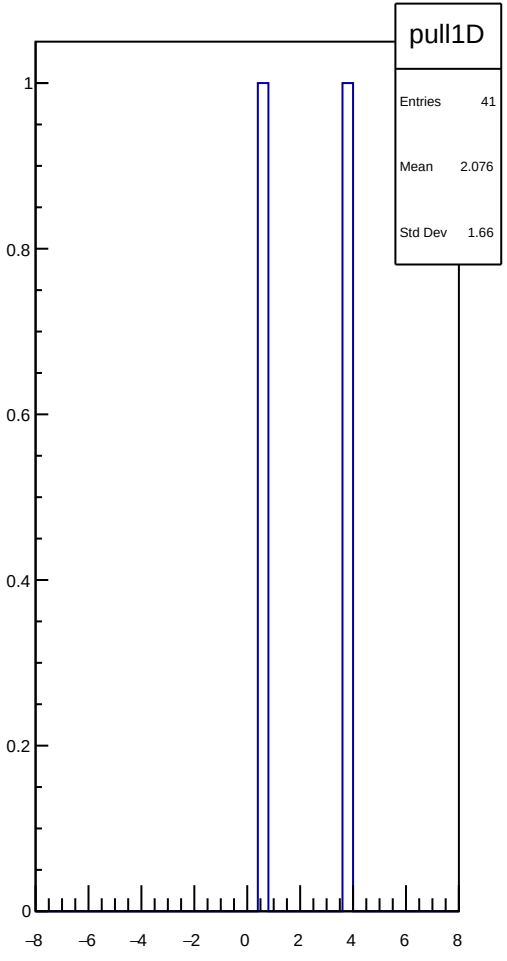

yield_bpm16Y_rms vs run
χ² / ndf 3.973e+04 / 40
p0 0.004816 ± 5.508e−06
0.009
0.008
0.007
0.006
0.005
0.004
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

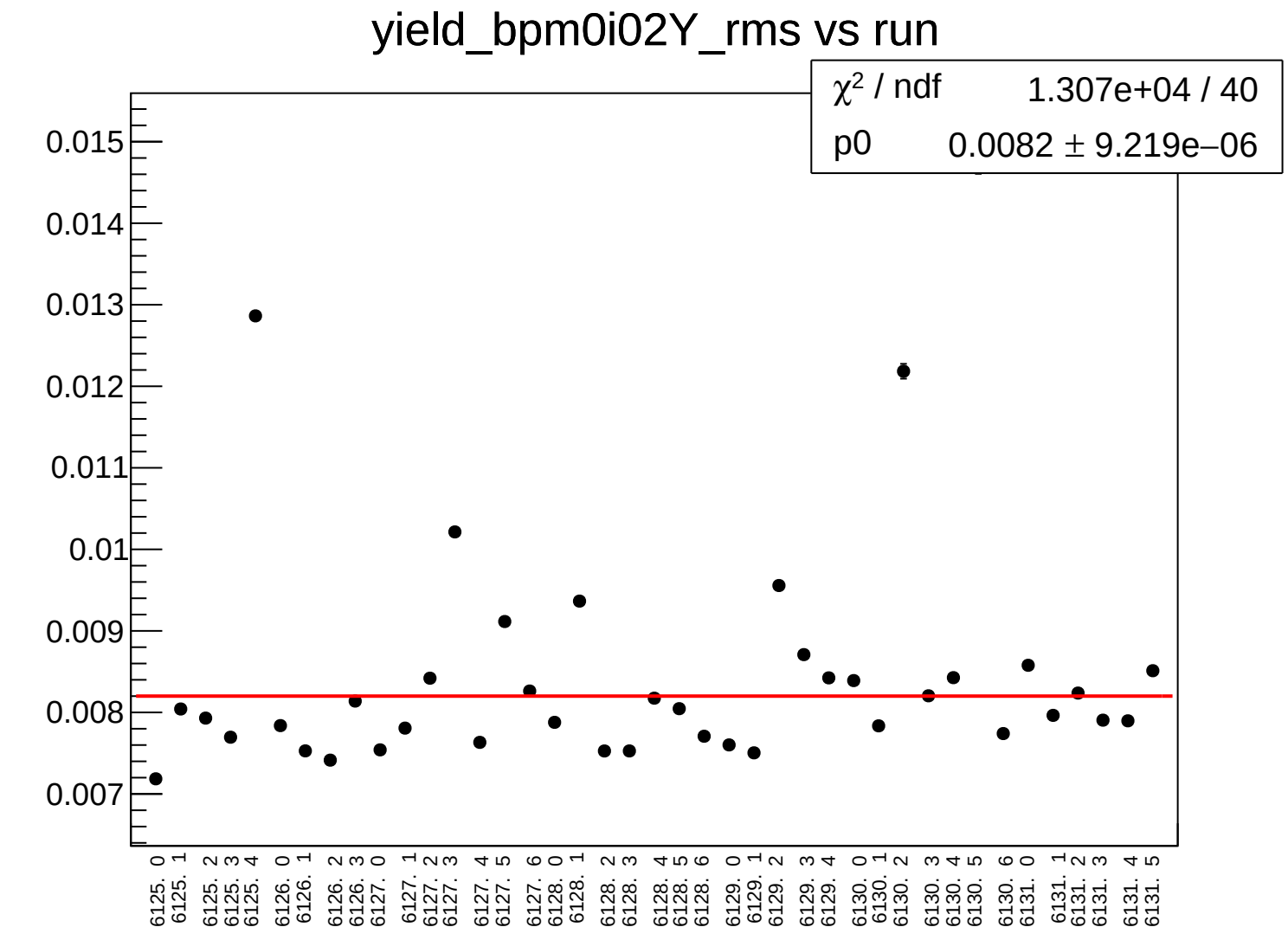

yield_bpm0i02X_mean vs run
χ² / ndf 2.354e+05 / 40
p0 −0.1182 ± 1.057e−05
−0.1
−0.105
−0.11
−0.115
−0.12
−0.125
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 359.3
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

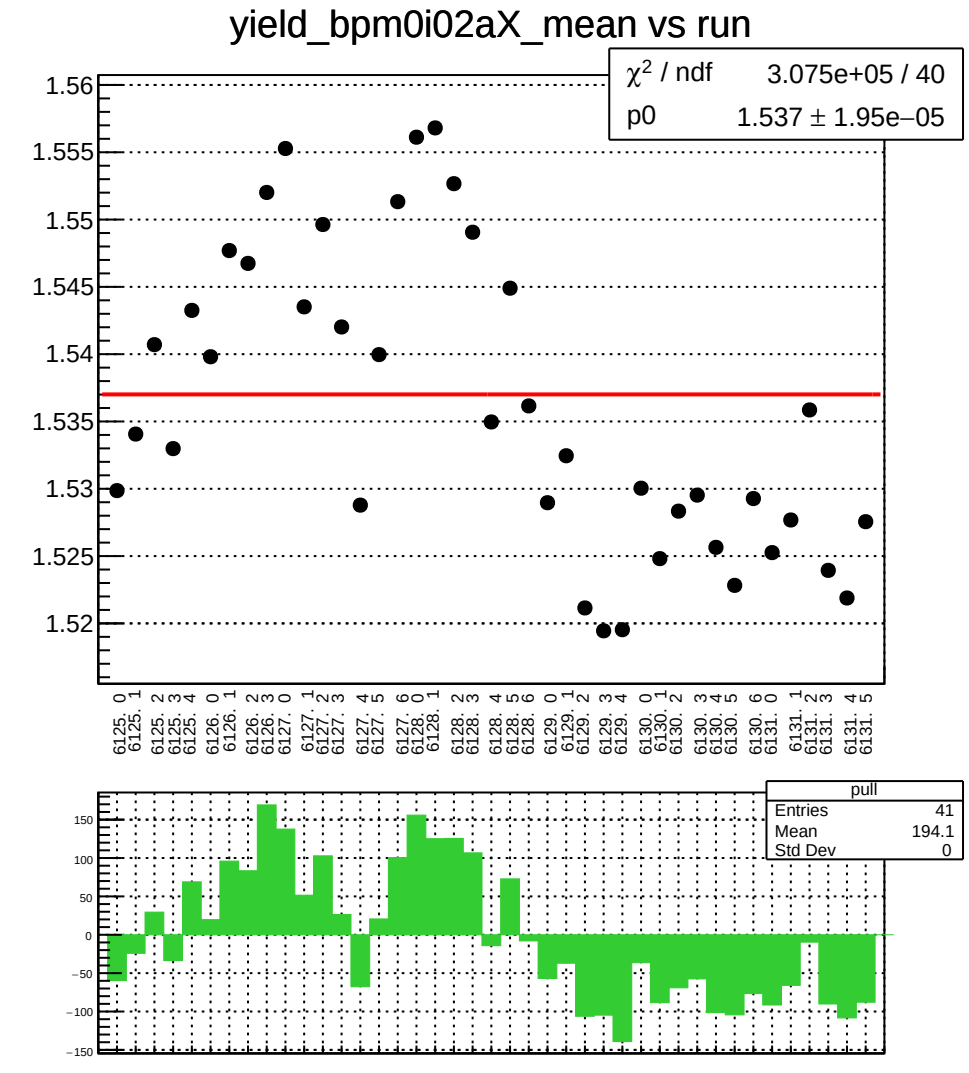

pull1D
Entries 41
Mean 2.485
Std Dev 3.596
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

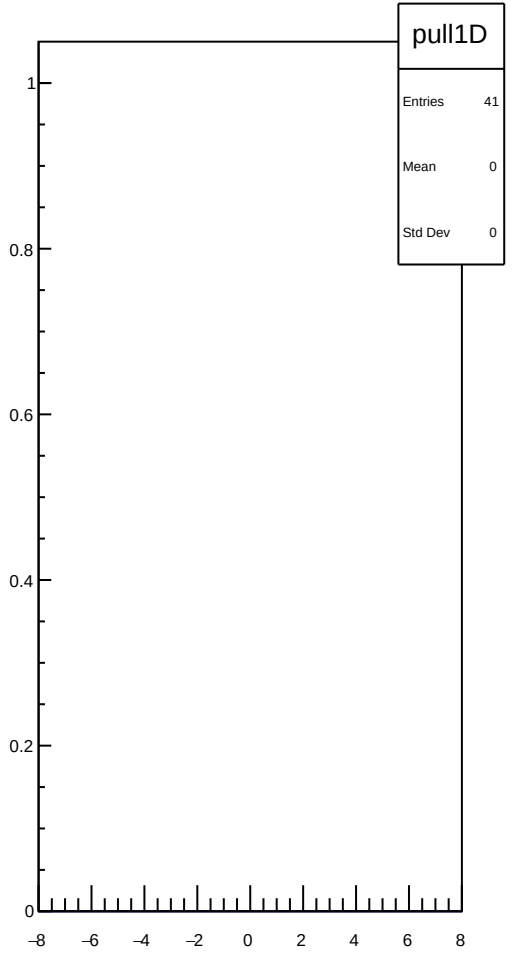

yield_bpm0i02X_rms vs run
χ² / ndf 1.146e+04 / 40
p0 0.006652 ± 7.471e−06
0.01
0.009
0.008
0.007
0.006
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

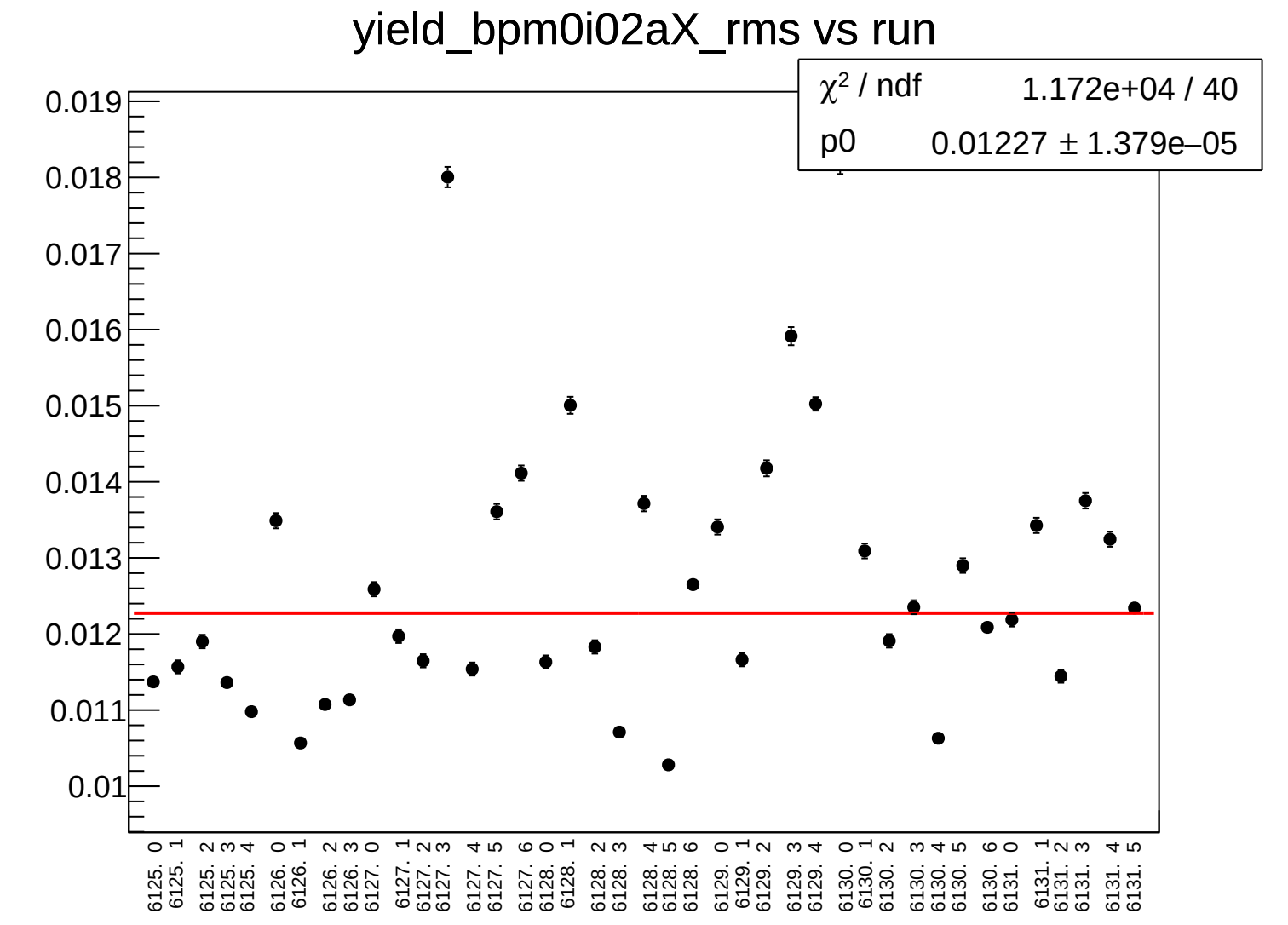

yield_bpm0i02Y_mean vs run
χ² / ndf 5.72e+05 / 40
p0 −3.753 ± 1.304e−05
−3.73
−3.735
−3.74
−3.745
−3.75
−3.755
−3.76
−3.765
−3.77
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −96.27
Std Dev 0
300
200
100
0
−100
−200

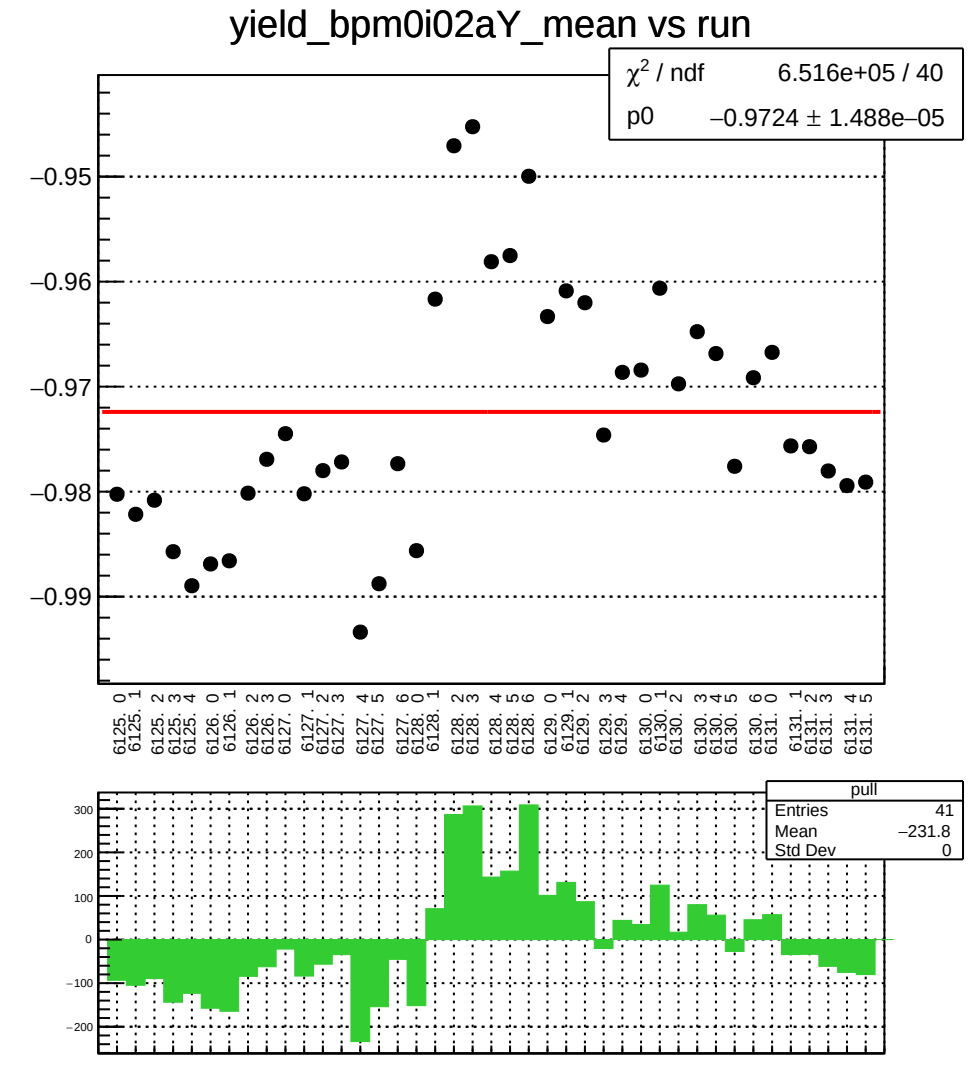

pull1D
Entries 41
Mean 2.076
Std Dev 1.66
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

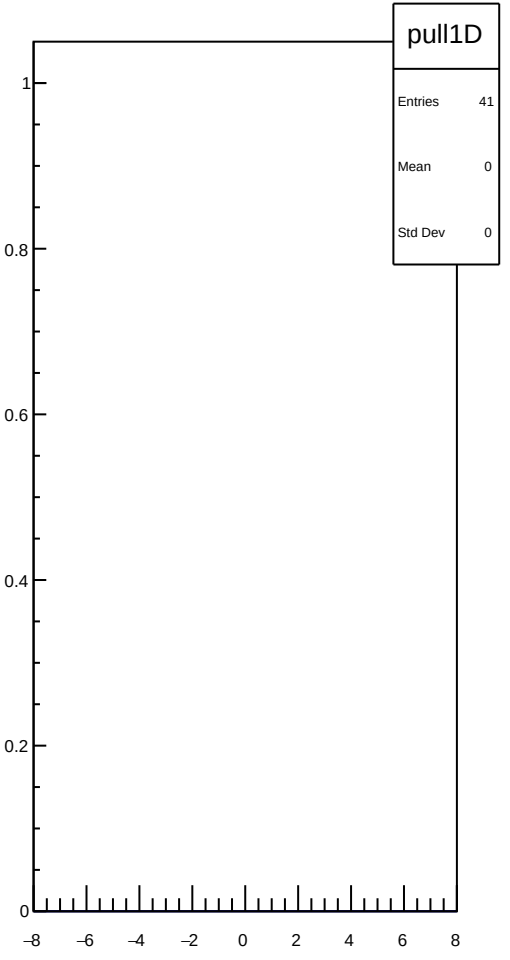

yield_bpm0i02Y_rms vs run
χ² / ndf 1.307e+04 / 40
p0 0.0082 ± 9.219e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

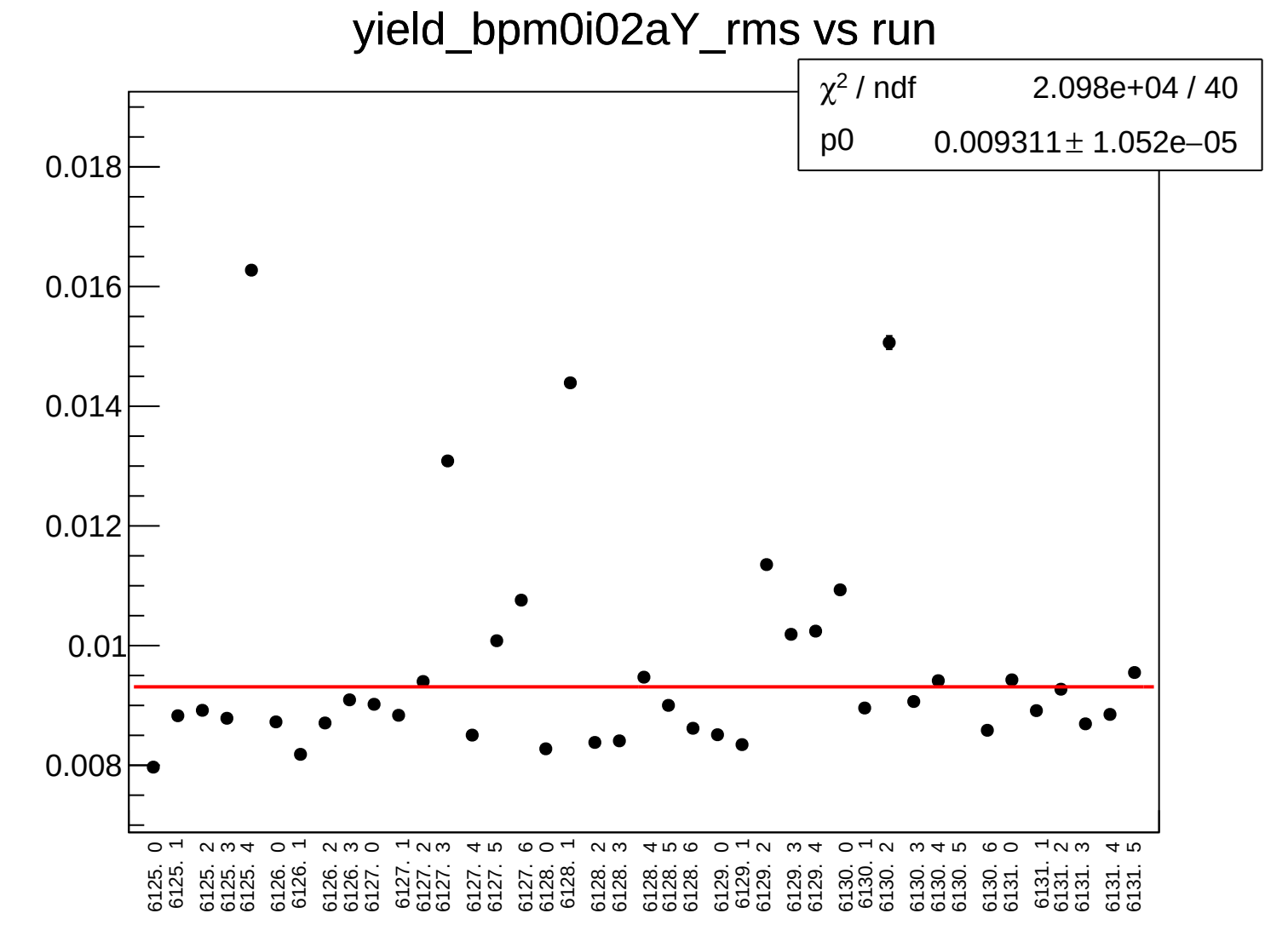

yield_bpm0i02aX_mean vs run
χ² / ndf 3.075e+05 / 40
p0 1.537 ± 1.95e−05
pull
Entries 41
Mean 194.1
Std Dev 0

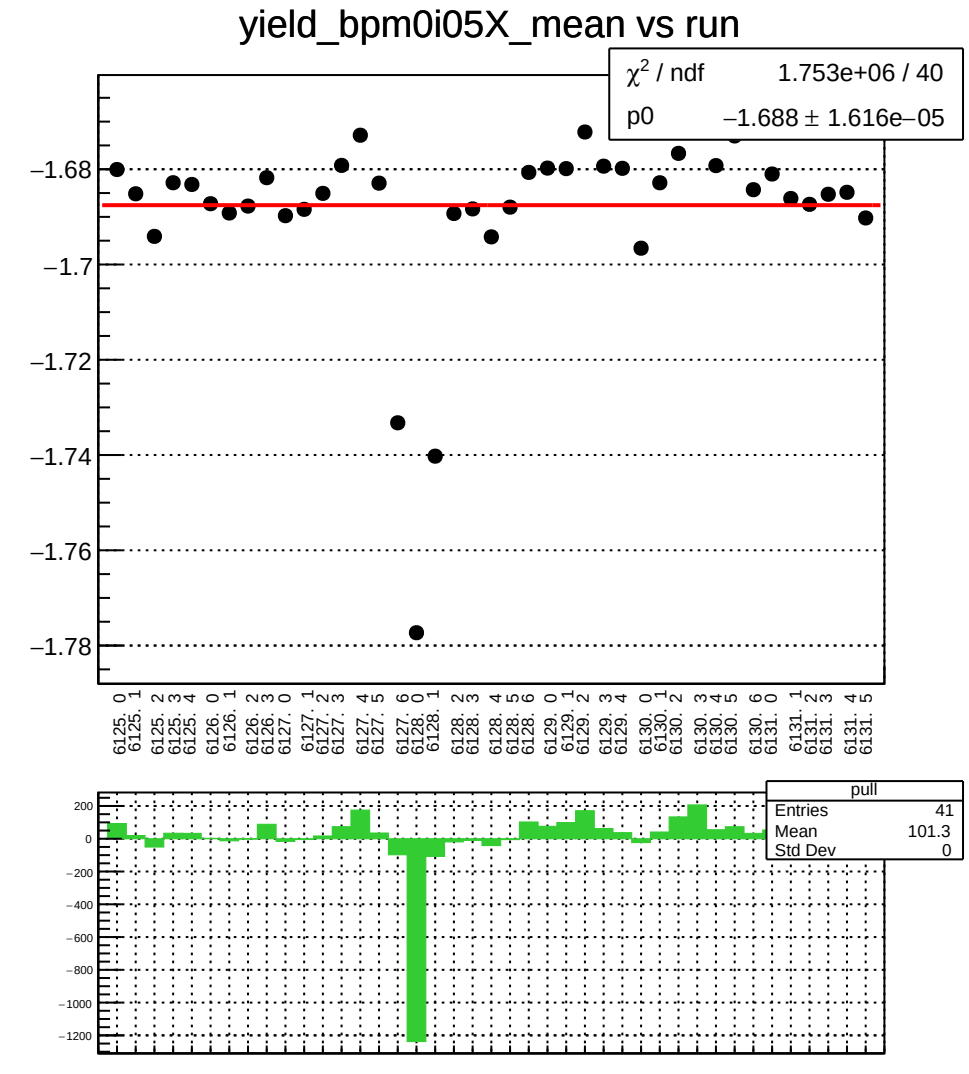

pull1D
Entries 41
Mean 0
Std Dev 0

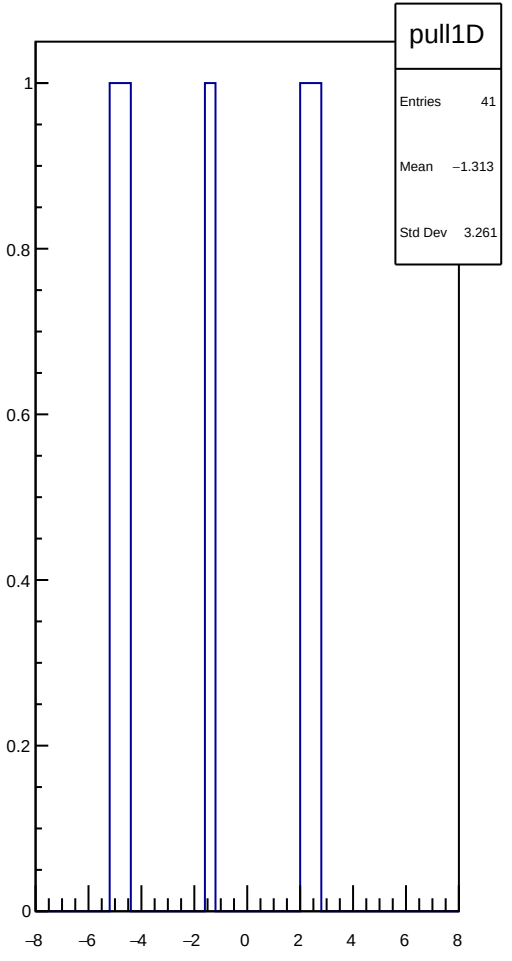

yield_bpm0i02aX_rms vs run
χ² / ndf 1.172e+04 / 40
p0 0.01227 ± 1.379e–05
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

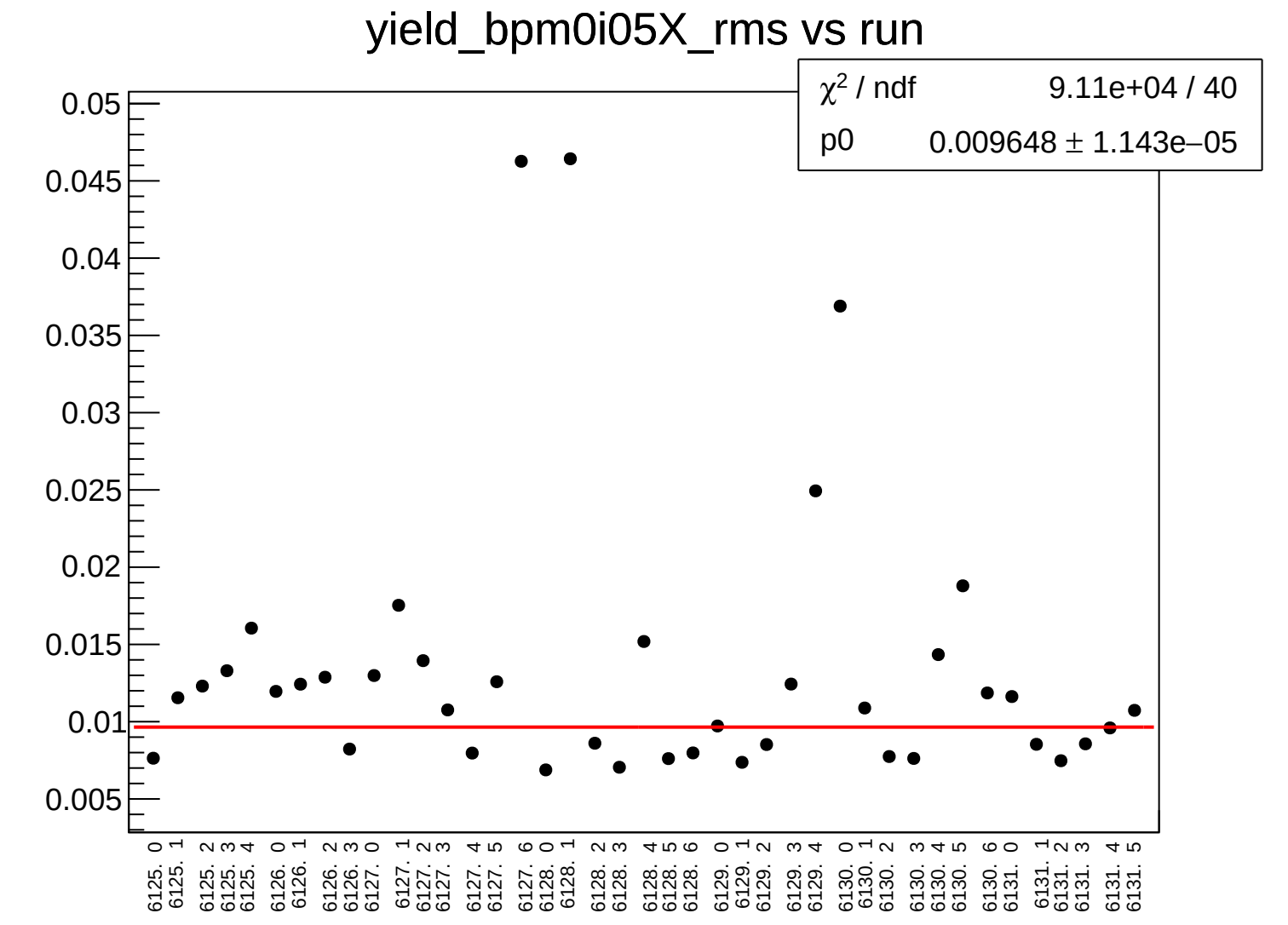

yield_bpm0i02aY_mean vs run
χ² / ndf 6.516e+05 / 40
p0 −0.9724 ± 1.488e−05
−0.95
−0.96
−0.97
−0.98
−0.99
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −231.8
Std Dev 0
300
200
100
0
−100
−200

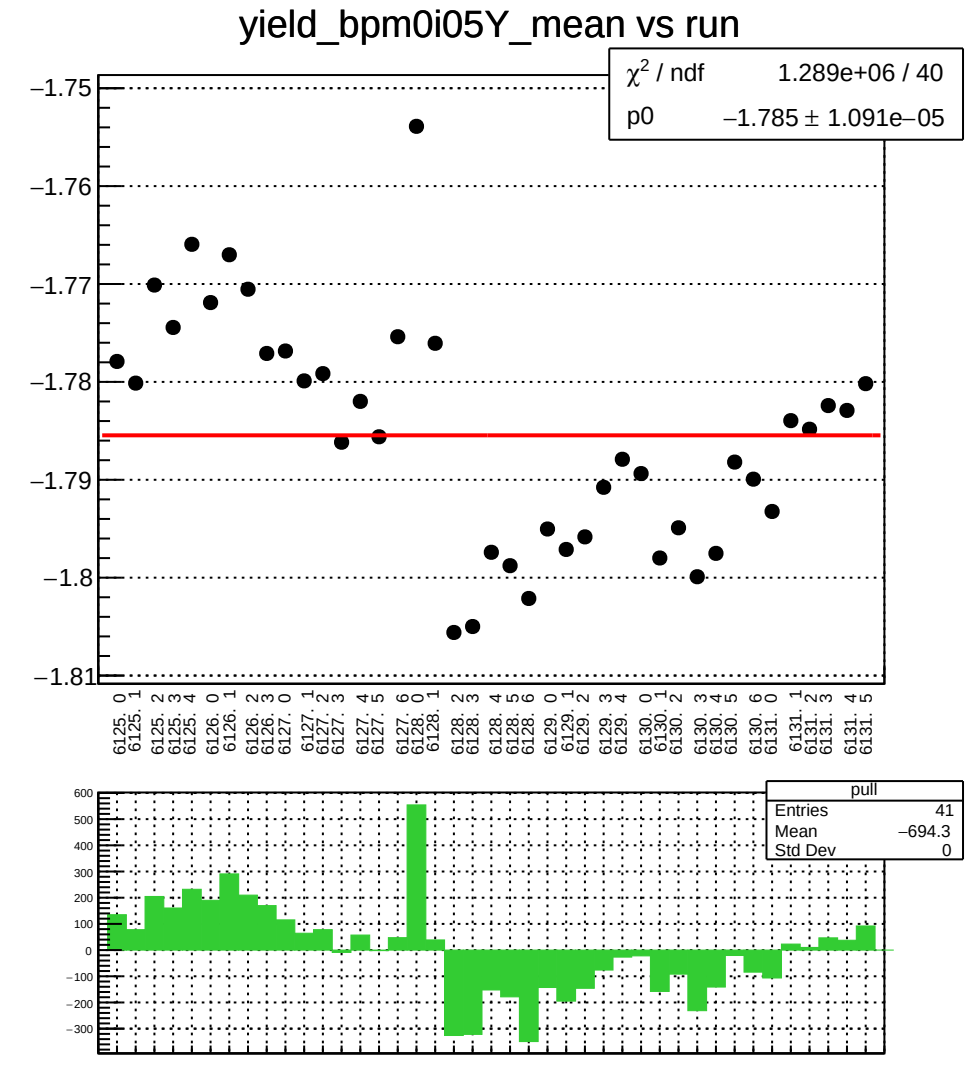

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

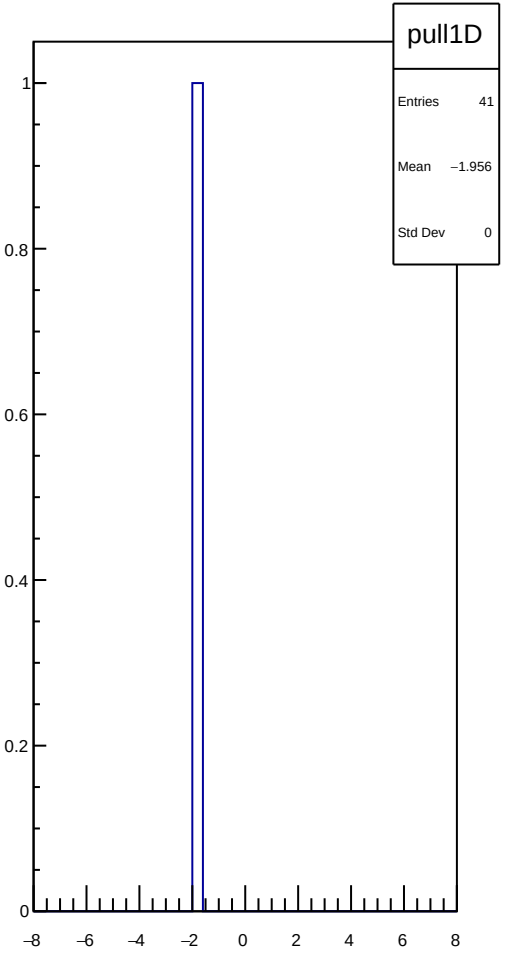

yield_bpm0i02aY_rms vs run
χ² / ndf 2.098e+04 / 40
p0 0.009311 ± 1.052e−05
0.018
0.016
0.014
0.012
0.01
0.008
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

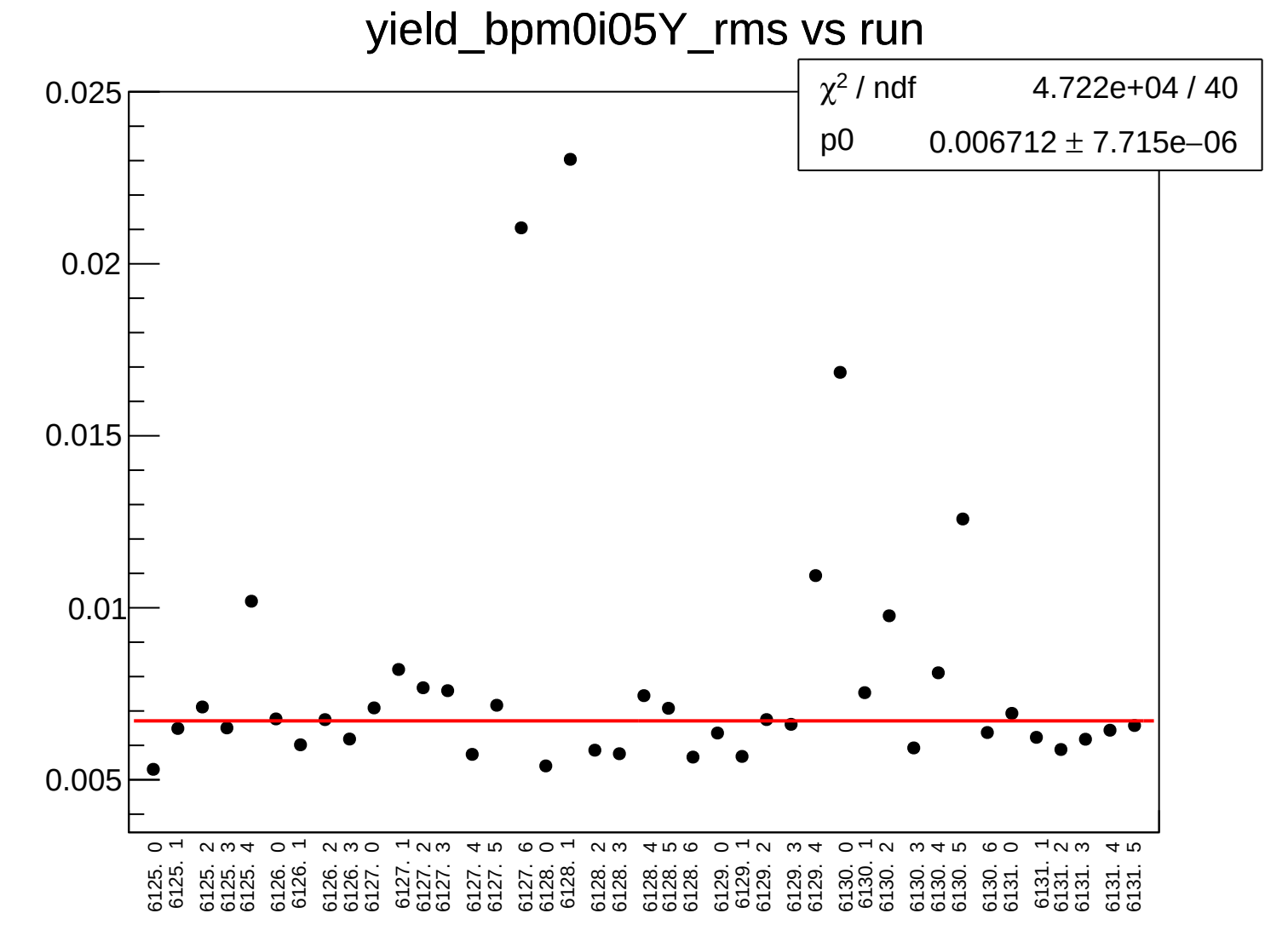

yield_bpm0i05X_mean vs run
χ² / ndf 1.753e+06 / 40
p0 −1.688 ± 1.616e−05
−1.68
−1.7
−1.72
−1.74
−1.76
−1.78
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 101.3
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200

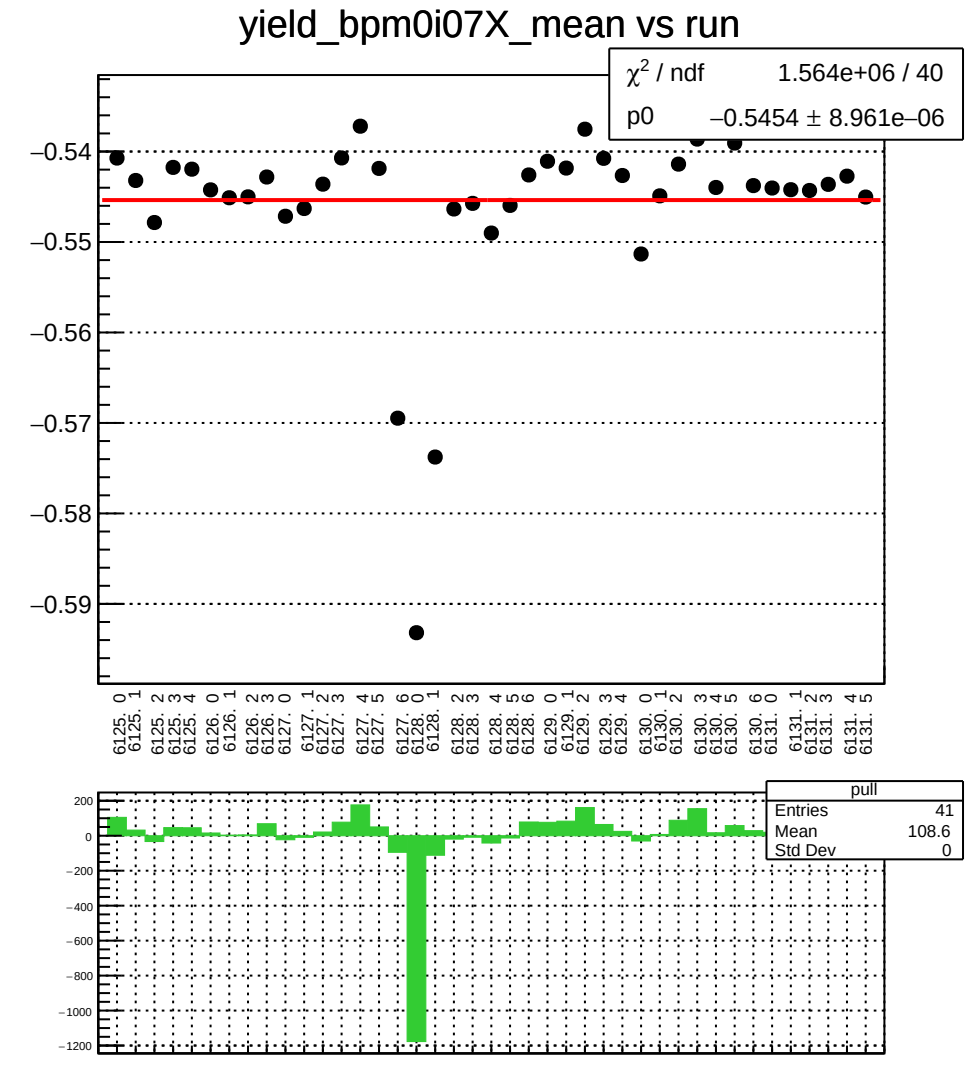

pull1D
Entries 41
Mean −1.313
Std Dev 3.261
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

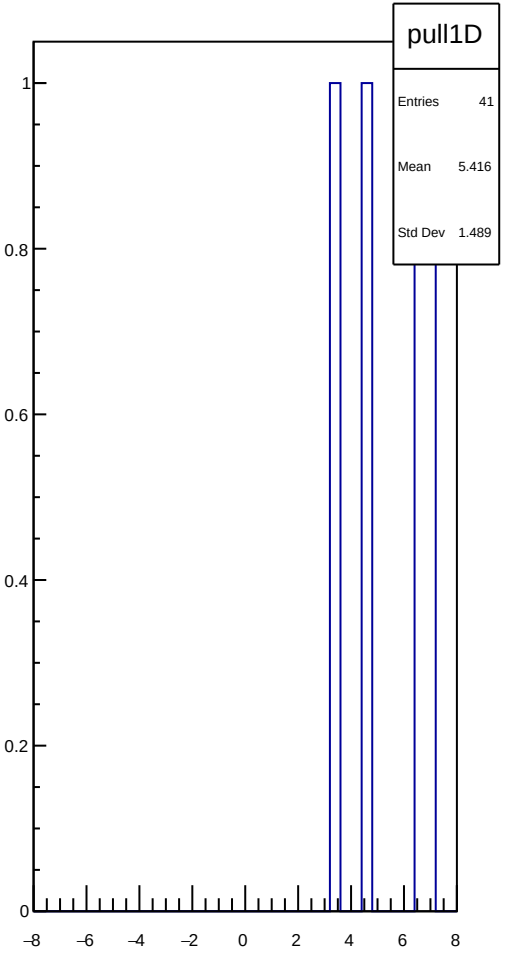

yield_bpm0i05X_rms vs run
χ² / ndf 9.11e+04 / 40
p0 0.009648 ± 1.143e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

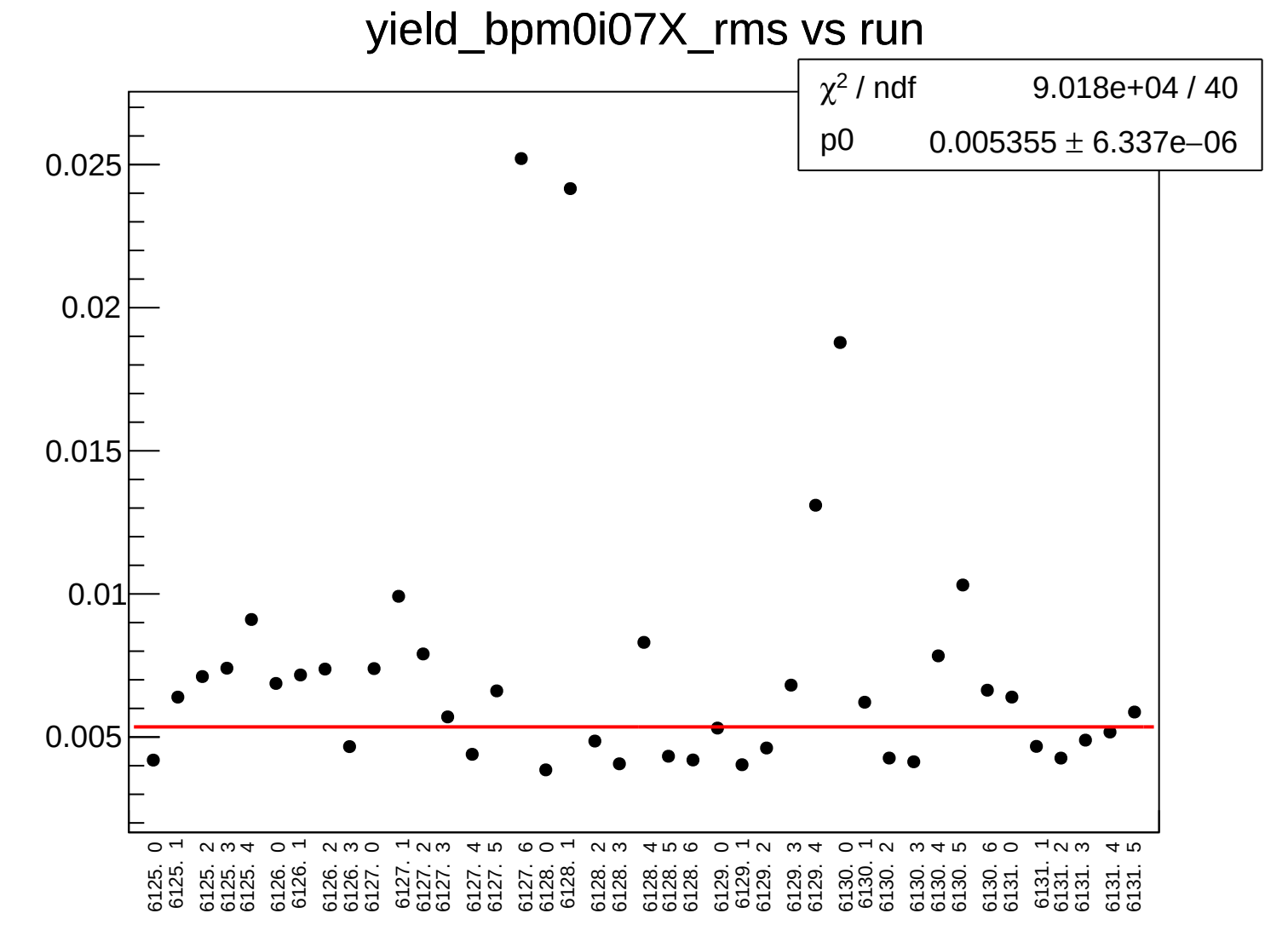

yield_bpm0i05Y_mean vs run
χ² / ndf 1.289e+06 / 40
p0 −1.785 ± 1.091e−05
−1.75
−1.76
−1.77
−1.78
−1.79
−1.8
−1.81
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −694.3
Std Dev 0
600
500
400
300
200
100
0
−100
−200
−300

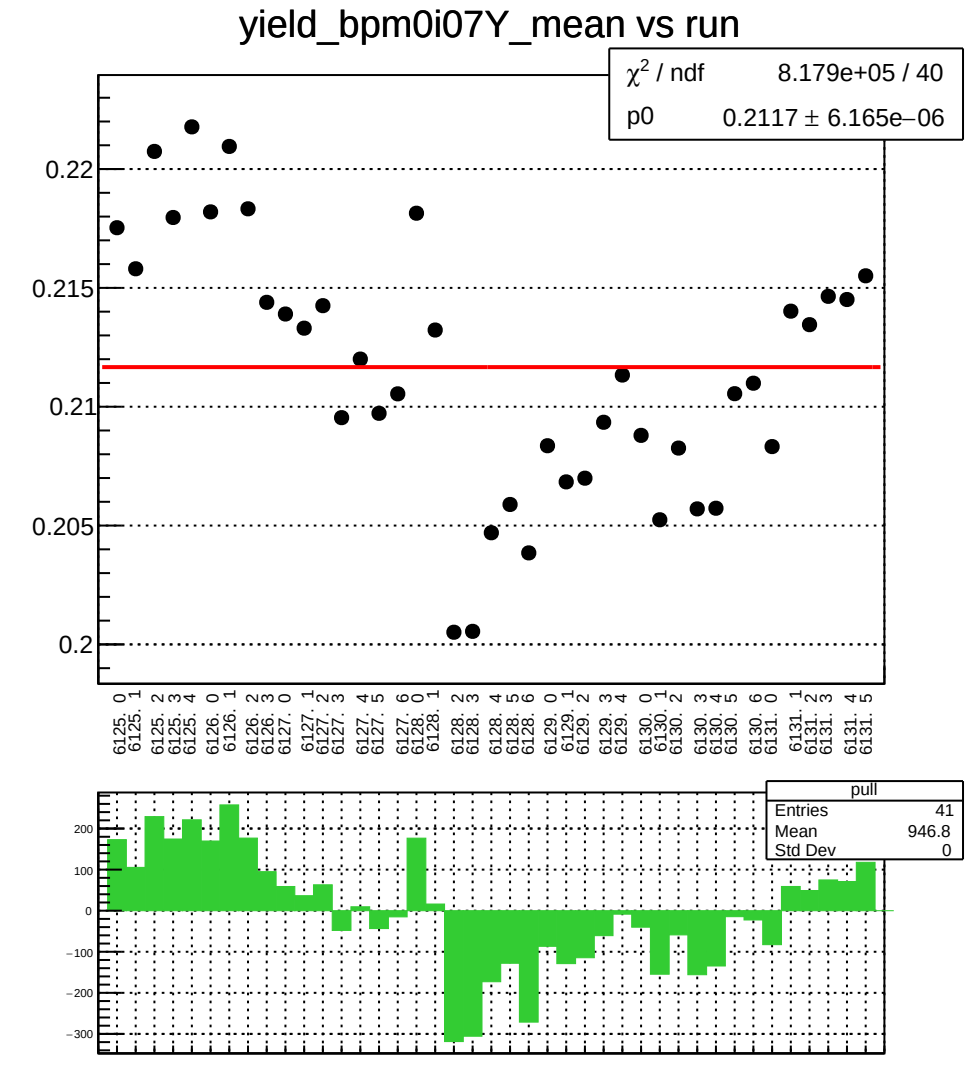

pull1D
Entries 41
Mean −1.956
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

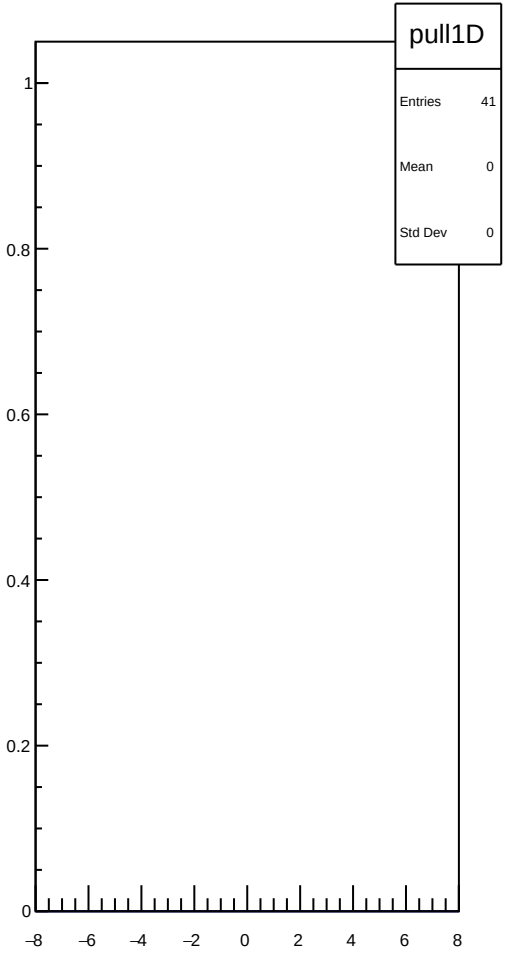

yield_bpm0i05Y_rms vs run
χ² / ndf 4.722e+04 / 40
p0 0.006712 ± 7.715e−06
0.025
0.02
0.015
0.01
0.005
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

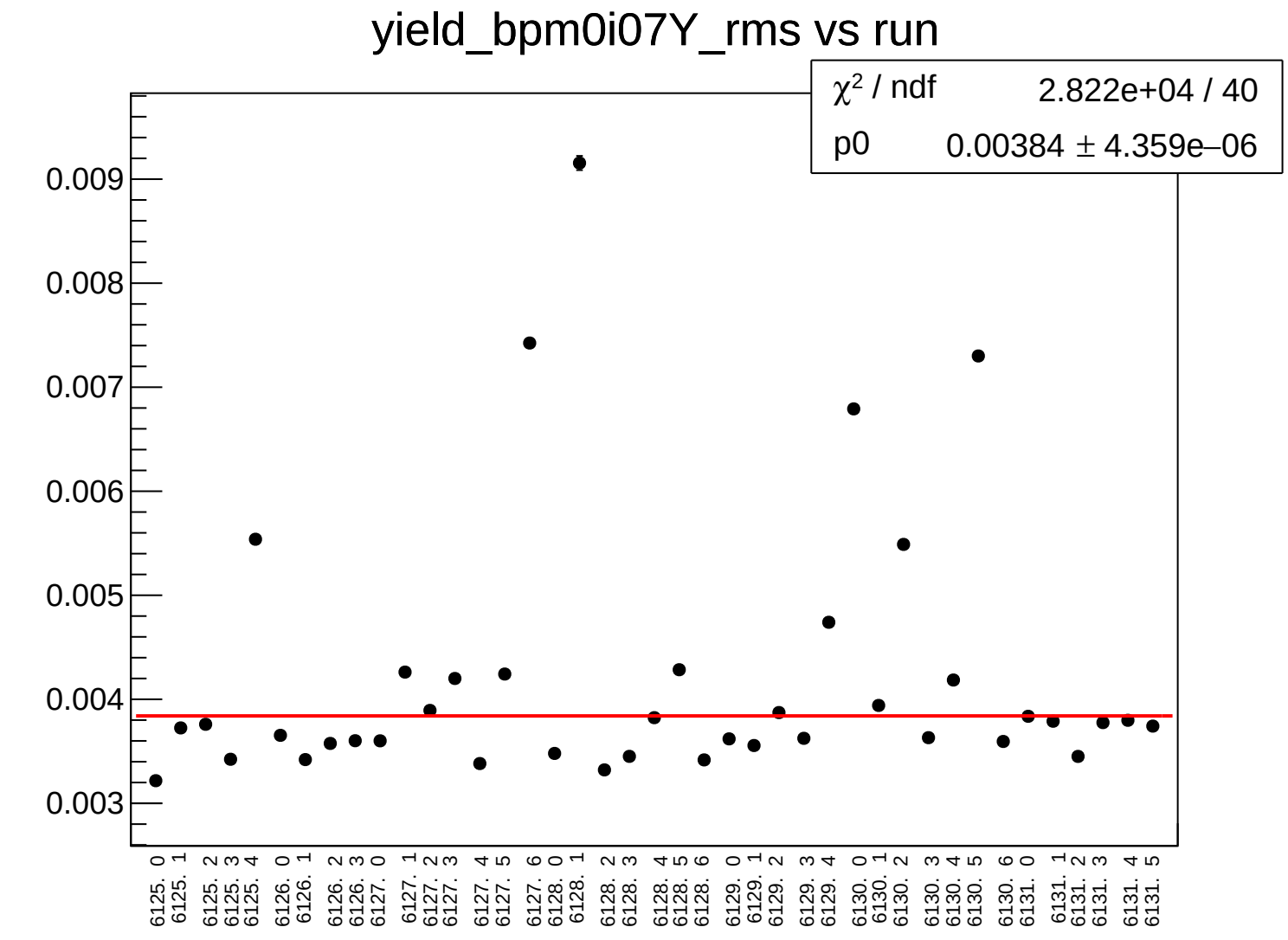

yield_bpm0i07X_mean vs run
χ² / ndf 1.564e+06 / 40
p0 −0.5454 ± 8.961e−06
−0.54
−0.55
−0.56
−0.57
−0.58
−0.59
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 108.6
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200

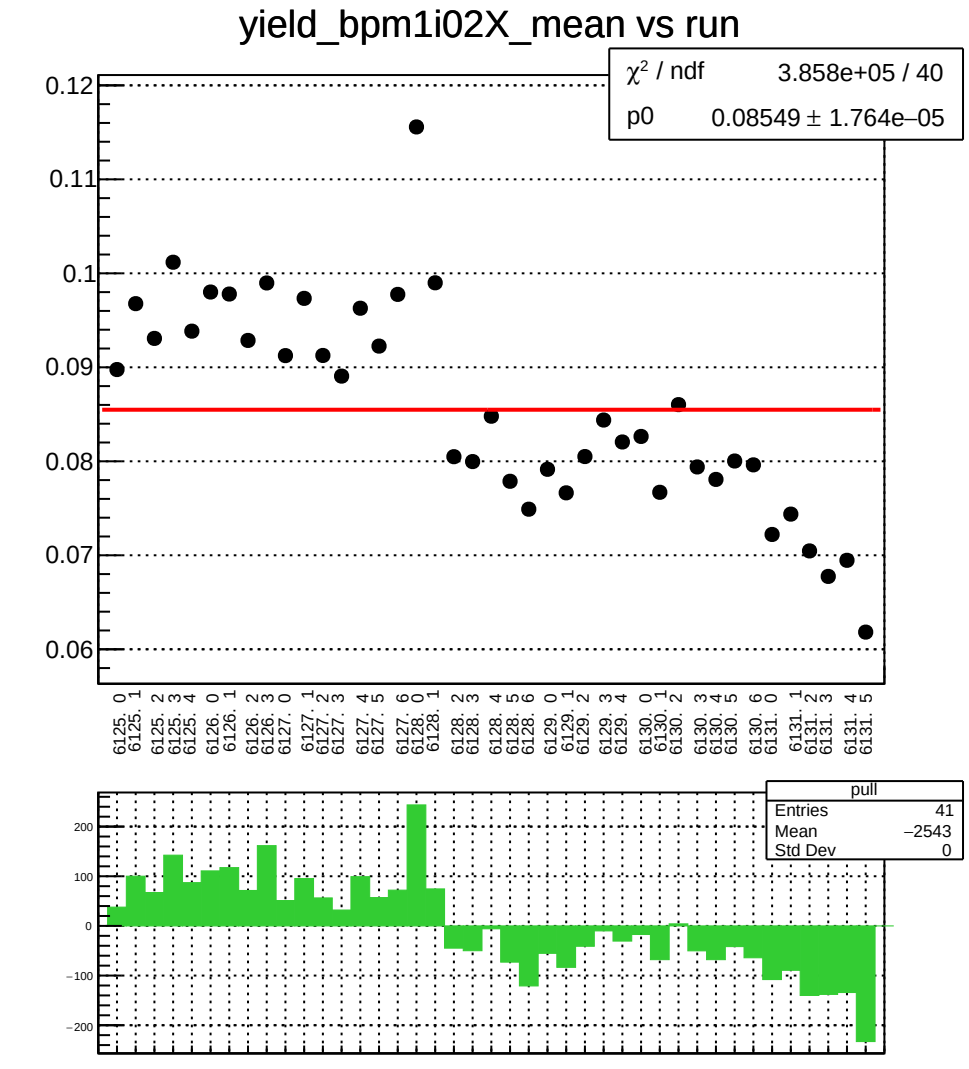

pull1D
Entries 41
Mean 5.416
Std Dev 1.489
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

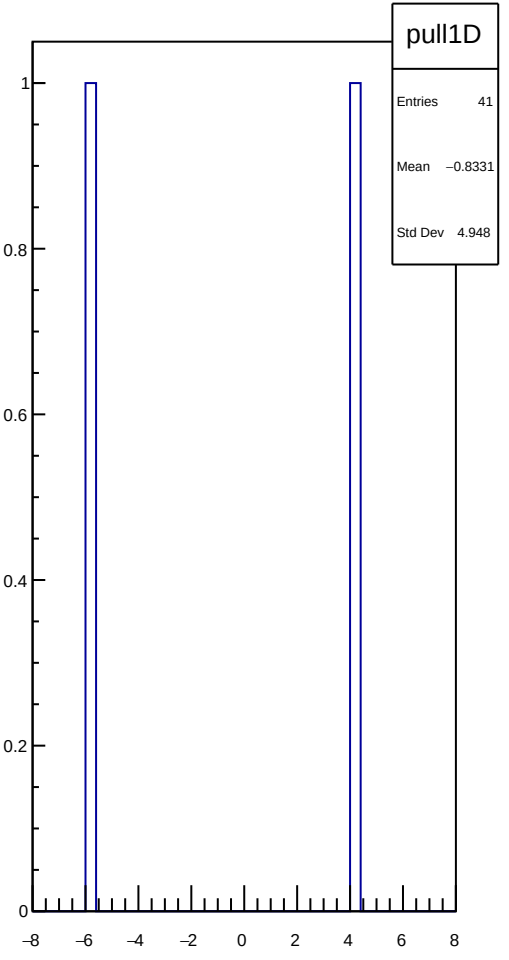

yield_bpm0i07X_rms vs run
χ² / ndf 9.018e+04 / 40
p0 0.005355 ± 6.337e−06
0.025
0.02
0.015
0.01
0.005
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

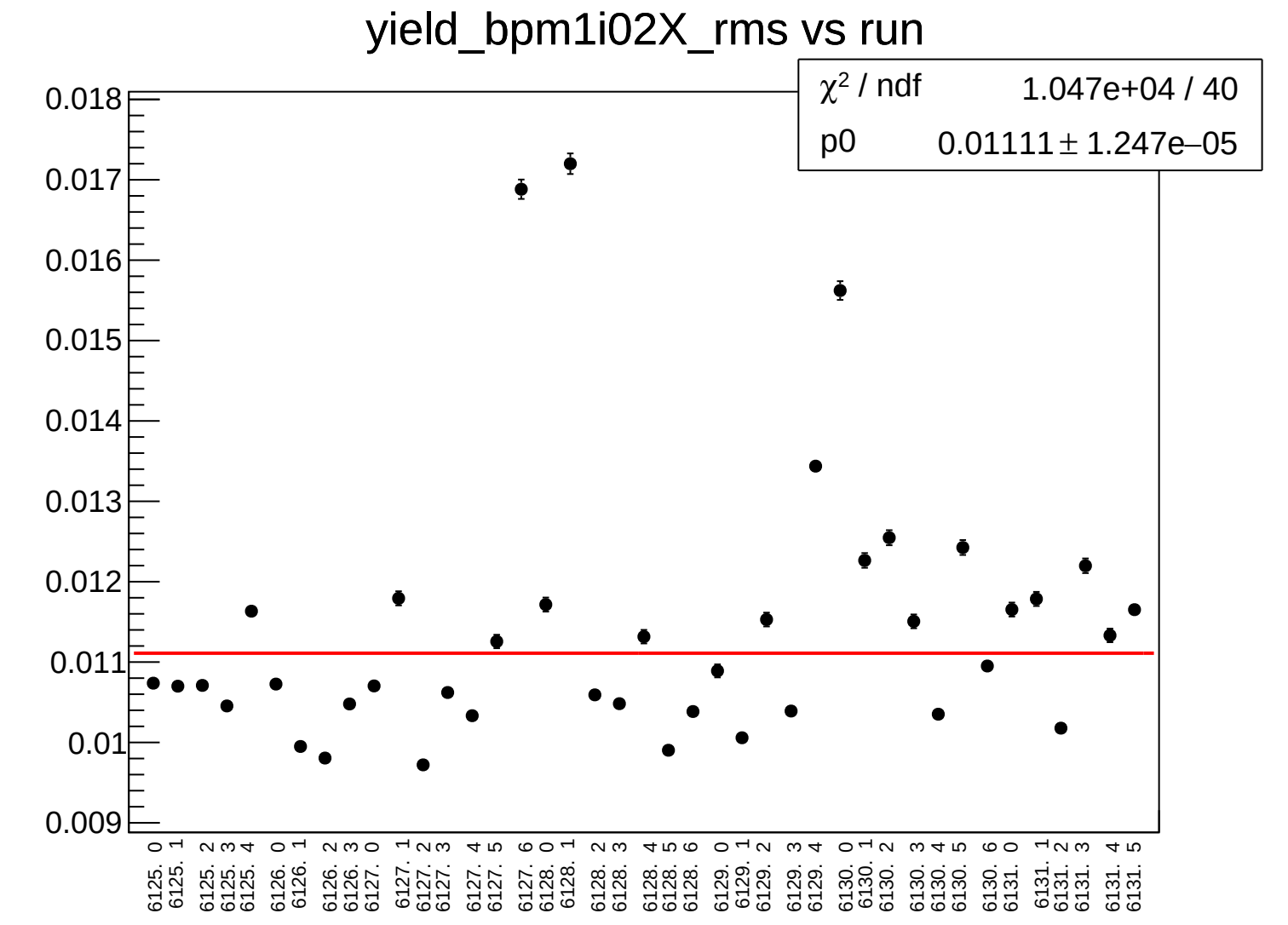

yield_bpm0i07Y_mean vs run
χ² / ndf 8.179e+05 / 40
p0 0.2117 ± 6.165e−06
0.22
0.215
0.21
0.205
0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 946.8
Std Dev 0
200
100
0
−100
−200
−300

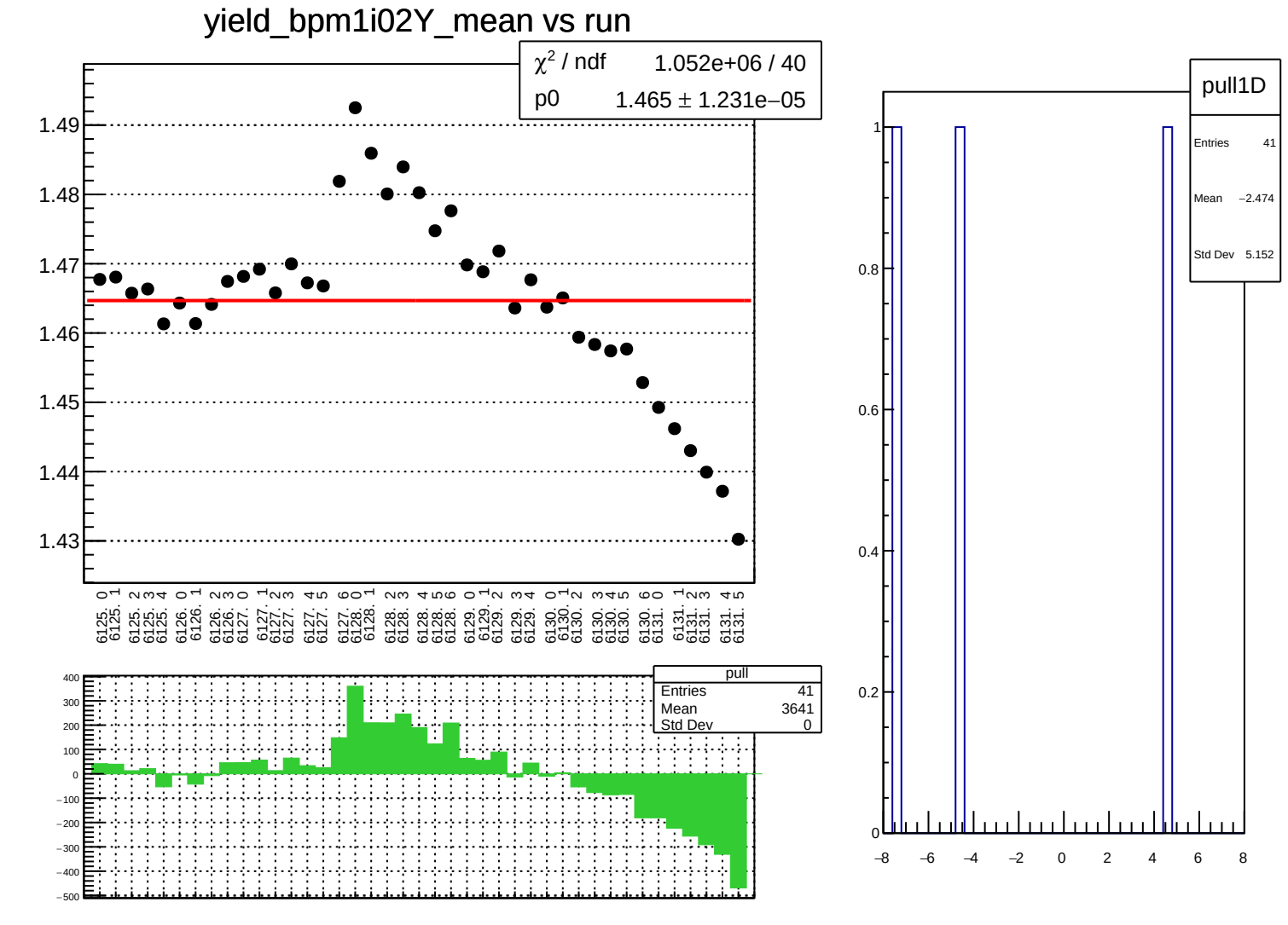

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

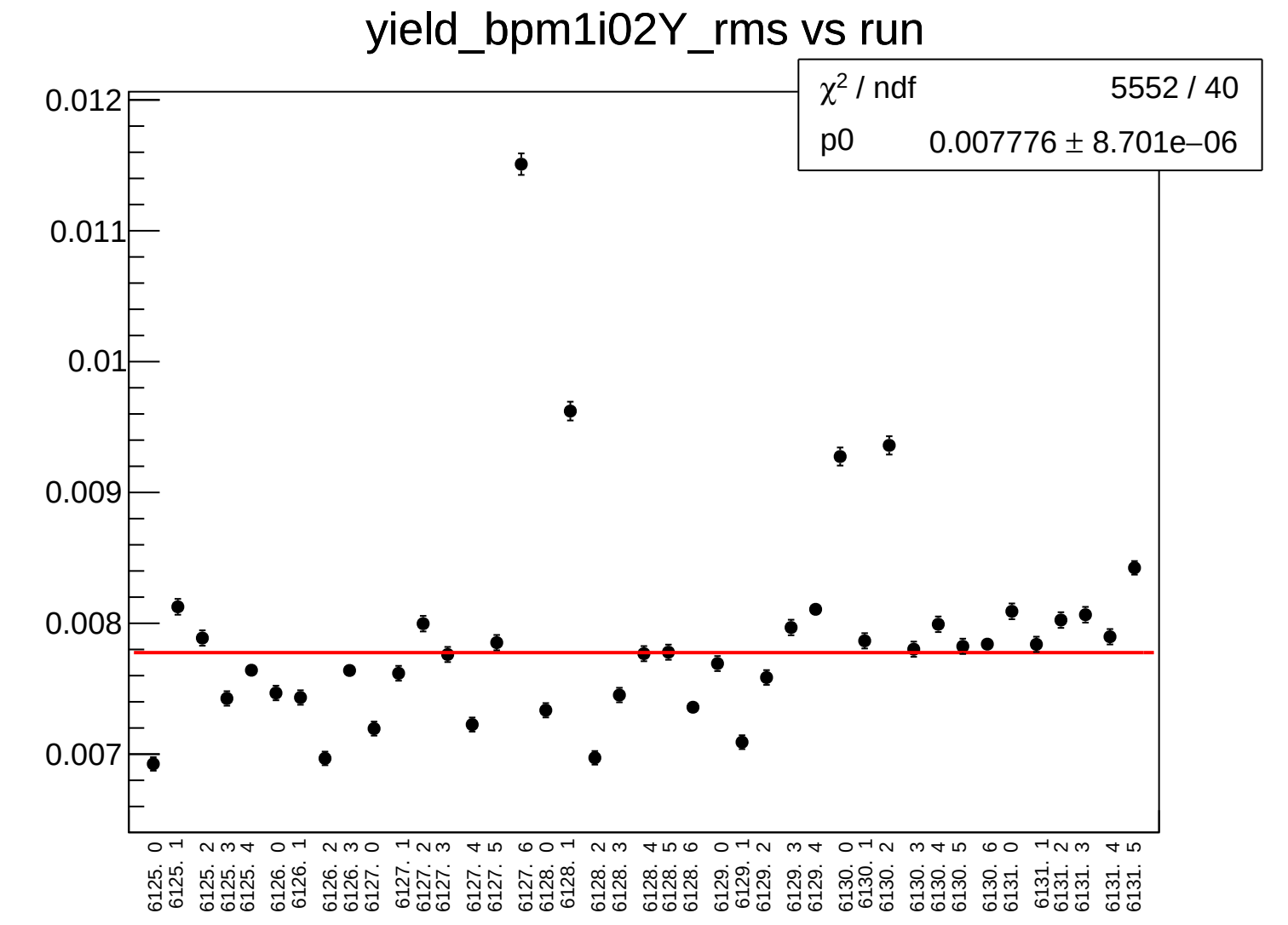

yield_bpm0i07Y_rms vs run
χ² / ndf 2.822e+04 / 40
p0 0.00384 ± 4.359e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

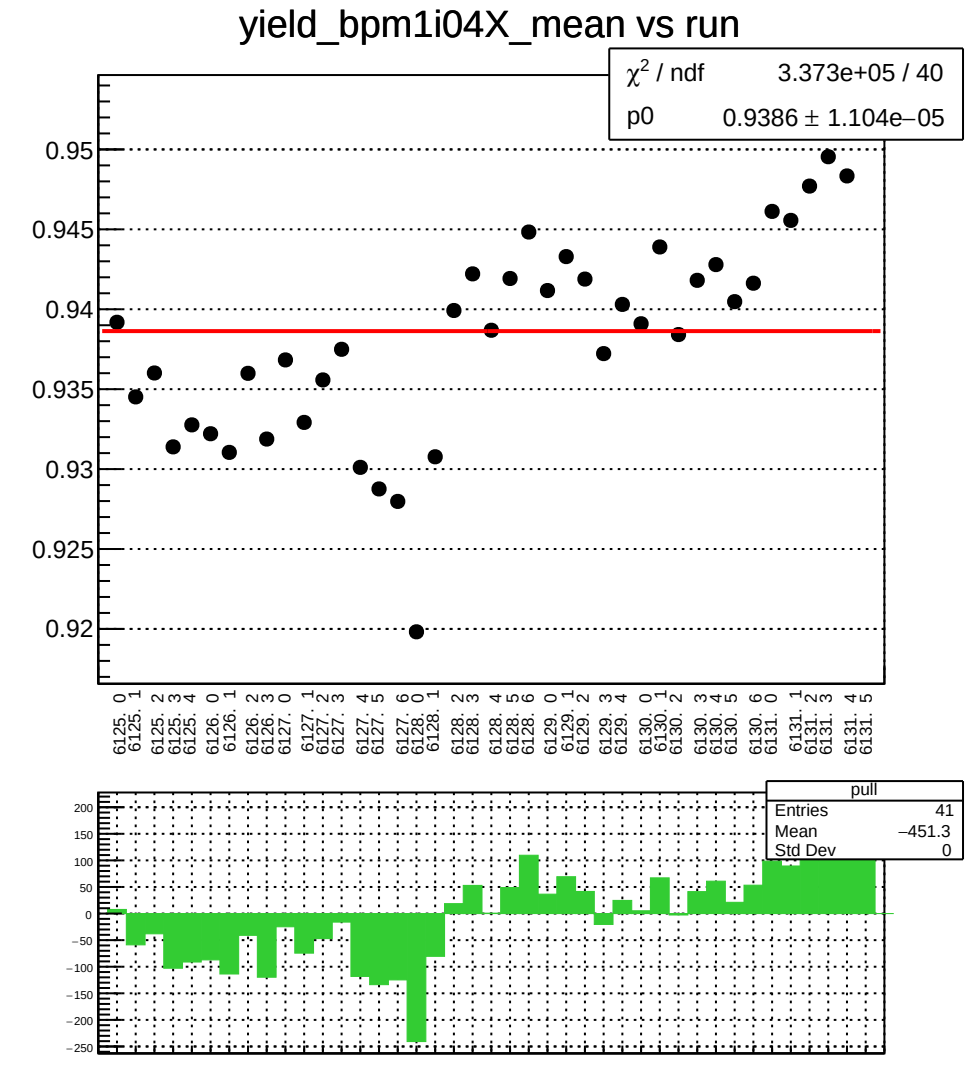

yield_bpm1i02X_mean vs run
χ² / ndf 3.858e+05 / 40
p0 0.08549 ± 1.764e−05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −2543
Std Dev 0
200
100
0
−100
−200

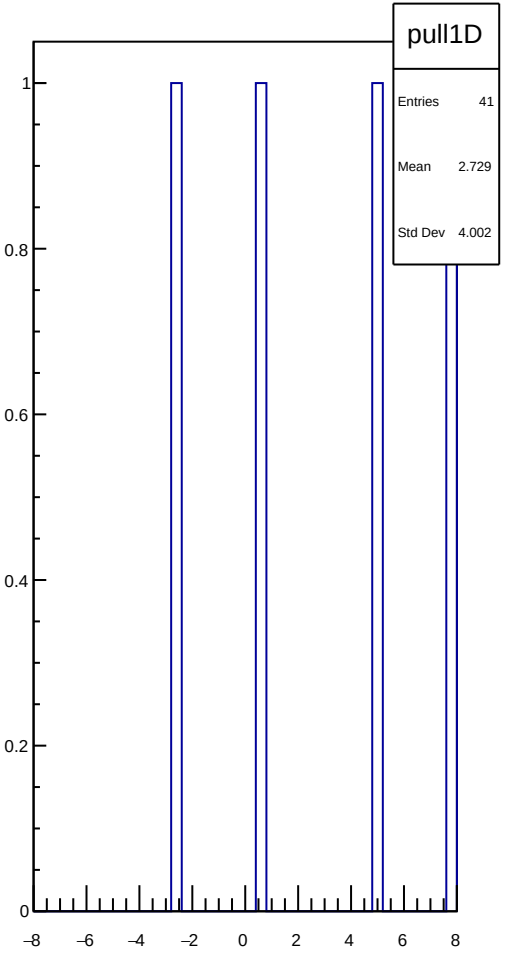

pull1D
Entries 41
Mean −0.8331
Std Dev 4.948
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

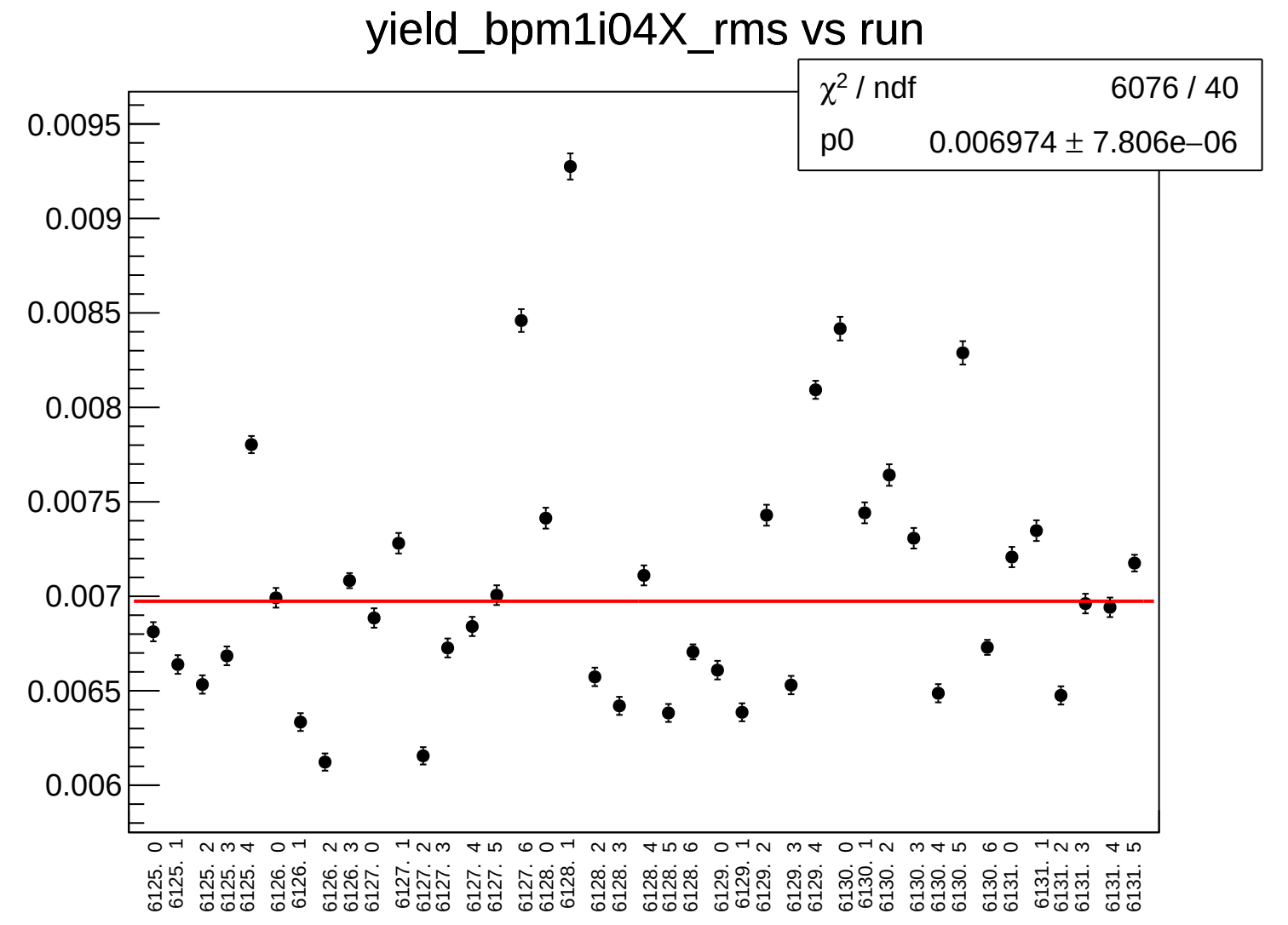

yield_bpm1i02X_rms vs run
χ² / ndf 1.047e+04 / 40
p0 0.01111 ± 1.247e–05
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

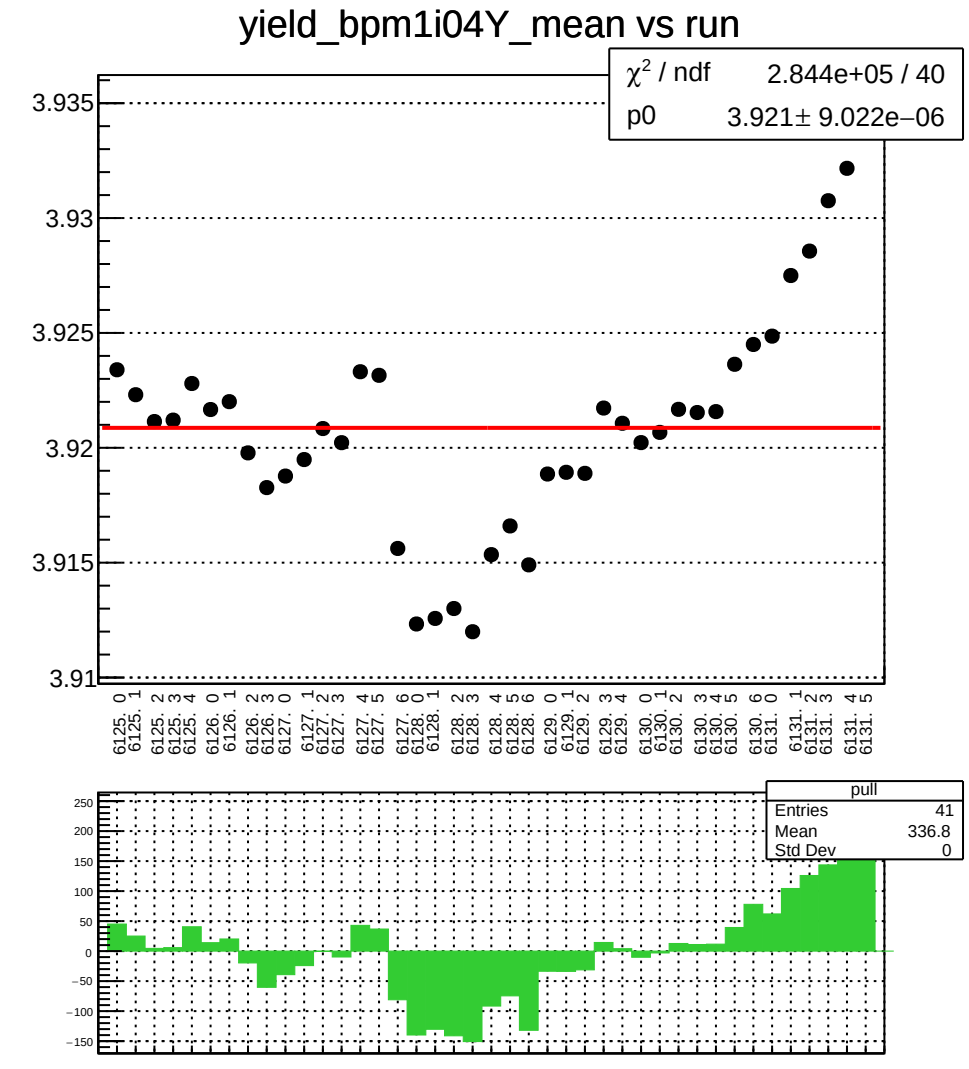

yield_bpm1i02Y_mean vs run
χ² / ndf 1.052e+06 / 40
p0 1.465 ± 1.231e−05
1.49
1.48
1.47
1.46
1.45
1.44
1.43
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 3641
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 41
Mean −2.474
Std Dev 5.152
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

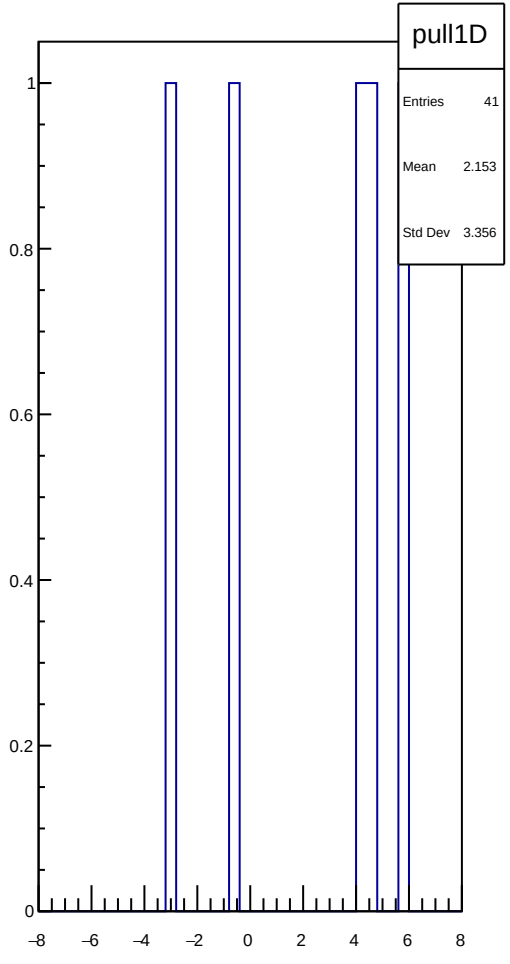

yield_bpm1i02Y_rms vs run
χ² / ndf 5552 / 40
p0 0.007776 ± 8.701e−06
0.012
0.011
0.01
0.009
0.008
0.007
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

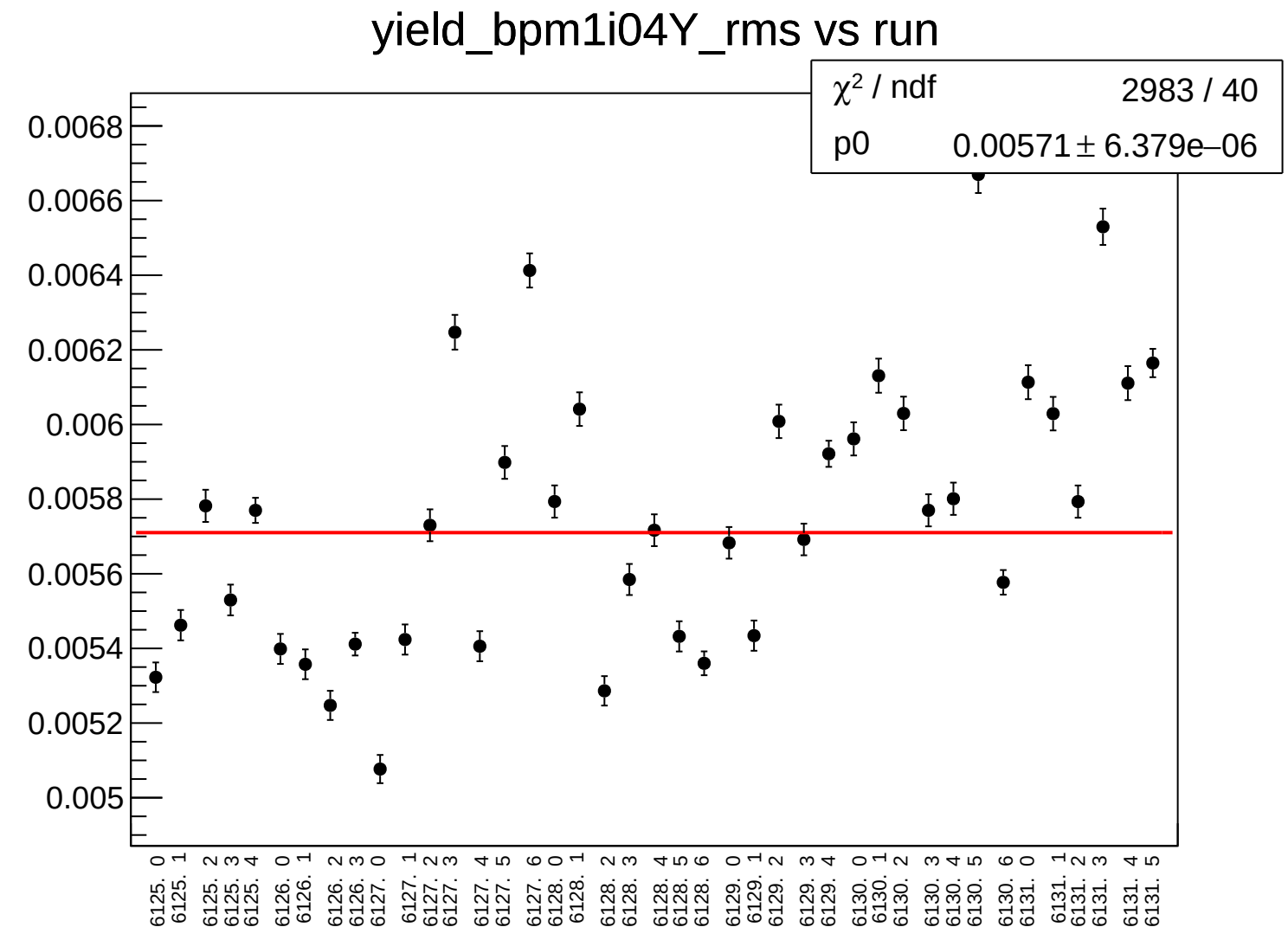

yield_bpm1i04X_mean vs run
χ² / ndf 3.373e+05 / 40
p0 0.9386 ± 1.104e−05
0.95
0.945
0.94
0.935
0.93
0.925
0.92
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −451.3
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

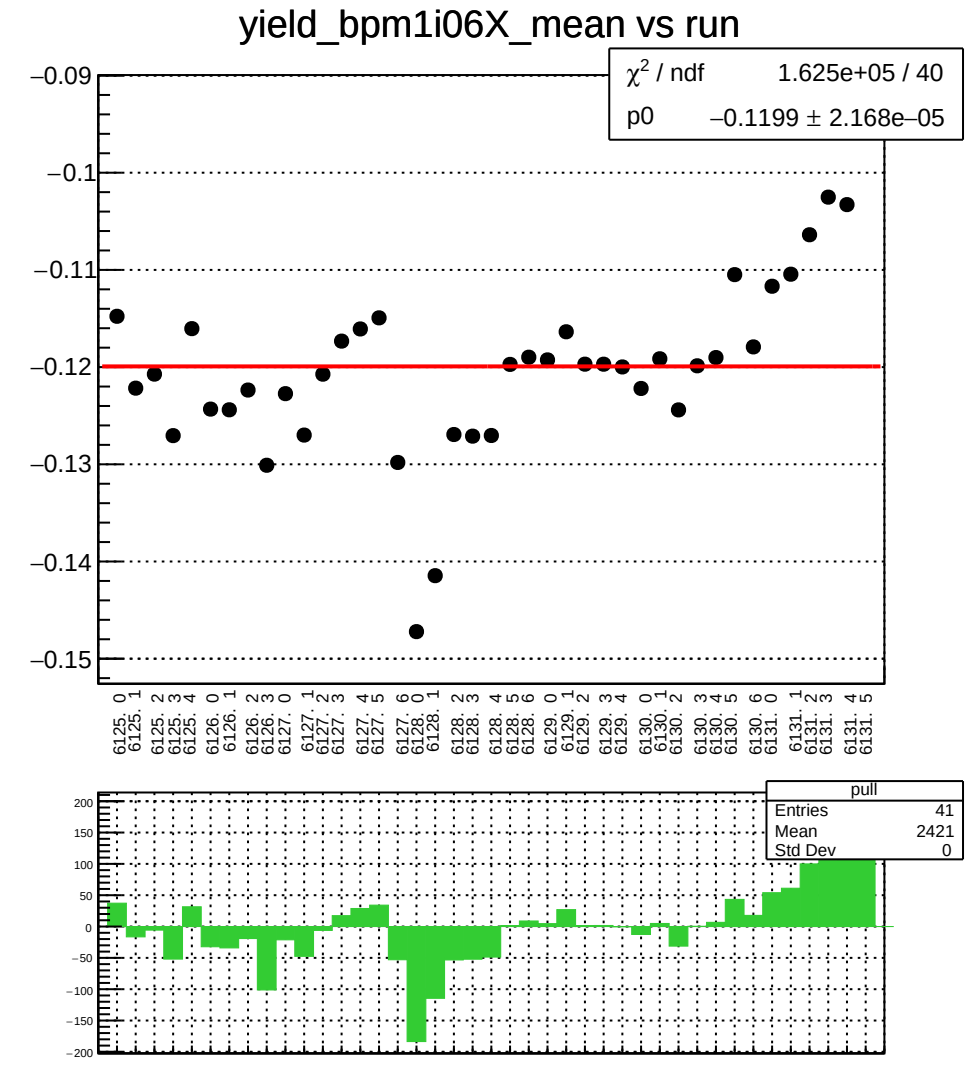

pull1D
Entries 41
Mean 2.729
Std Dev 4.002
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

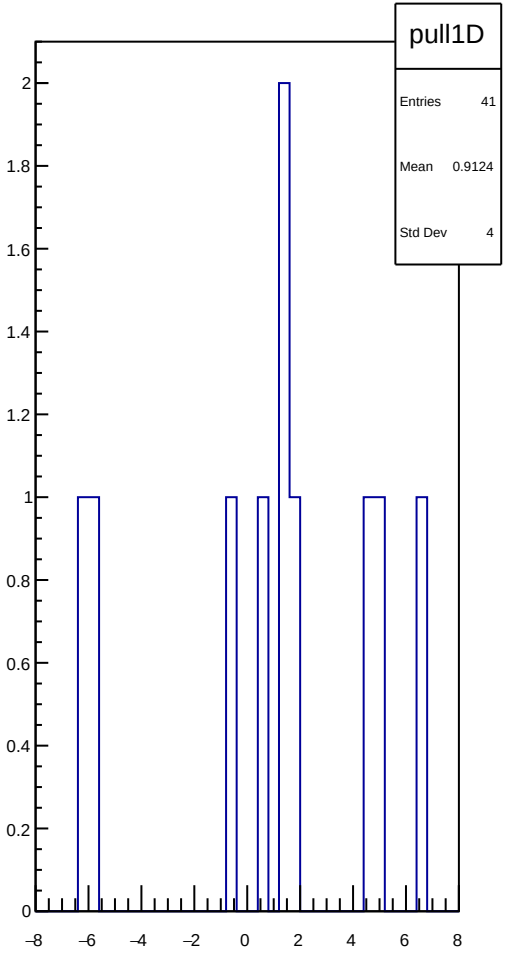

yield_bpm1i04X_rms vs run
χ² / ndf 6076 / 40
p0 0.006974 ± 7.806e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

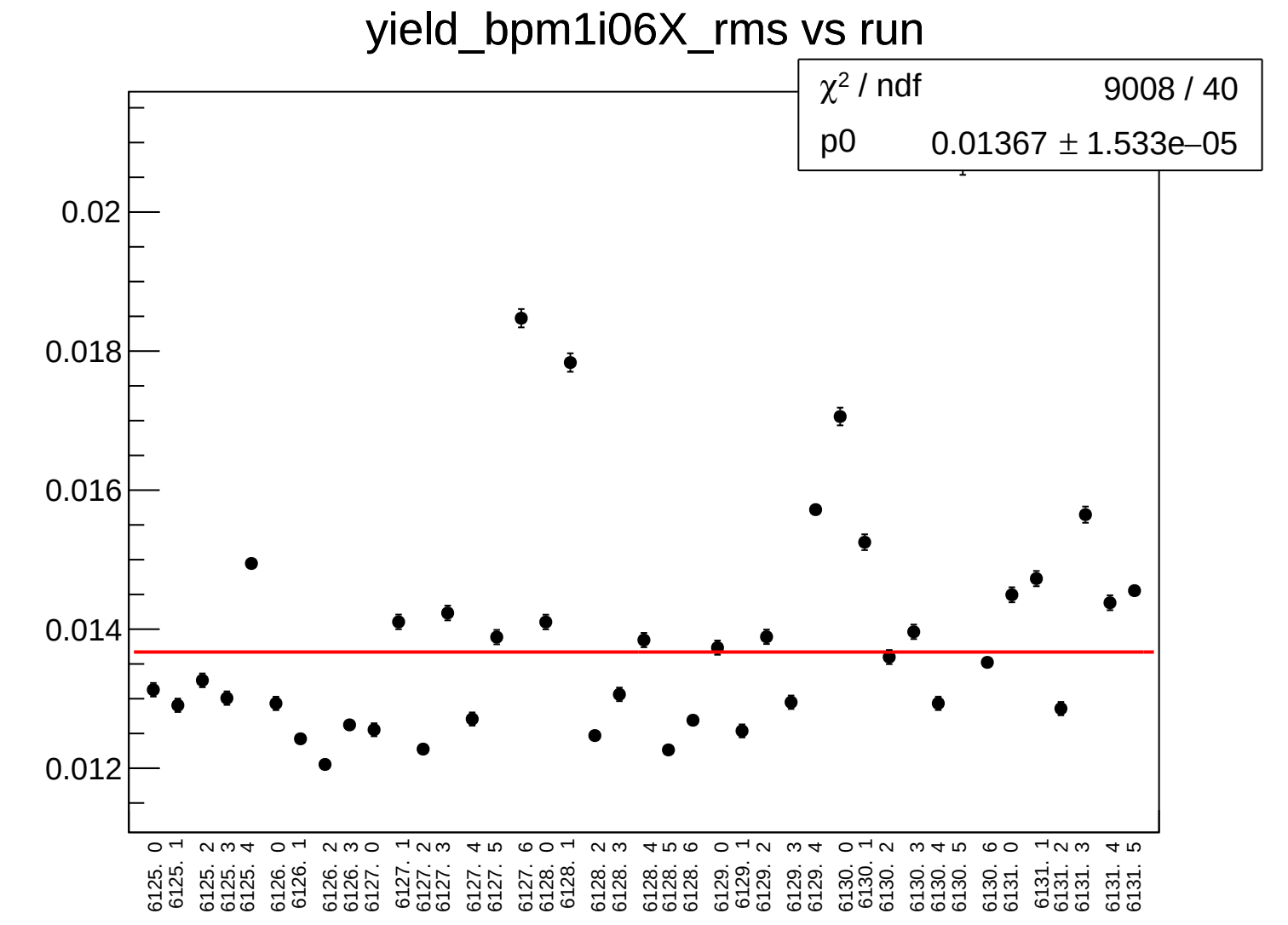

yield_bpm1i04Y_mean vs run
χ² / ndf 2.844e+05 / 40
p0 3.921± 9.022e−06
3.935
3.93
3.925
3.92
3.915
3.91
pull
Entries 41
Mean 336.8
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

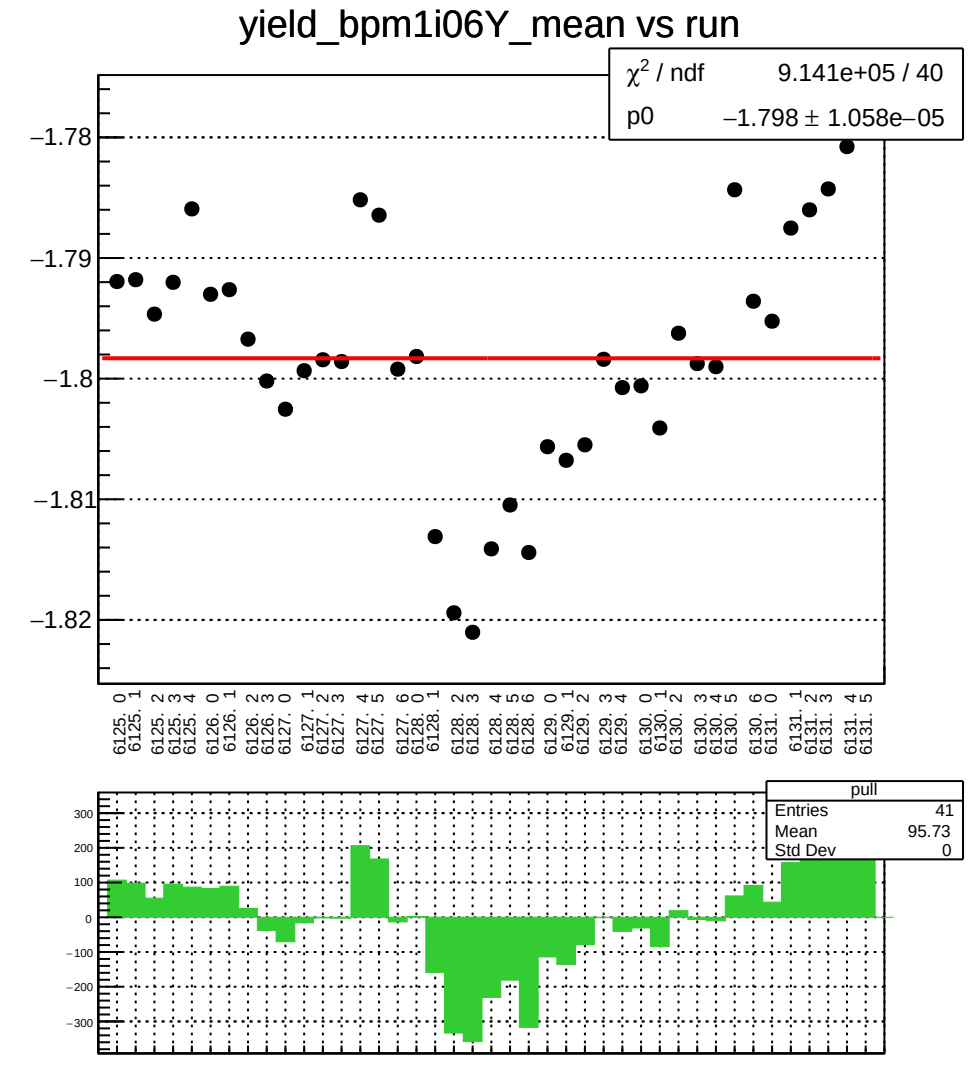

pull1D
Entries 41
Mean 2.153
Std Dev 3.356
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

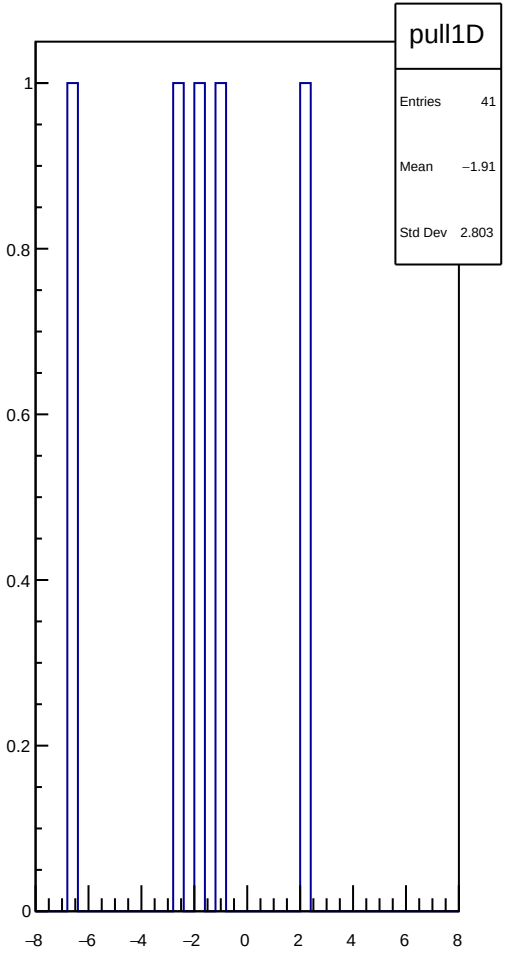

yield_bpm1i04Y_rms vs run
χ² / ndf 2983 / 40
p0 0.00571 ± 6.379e–06
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

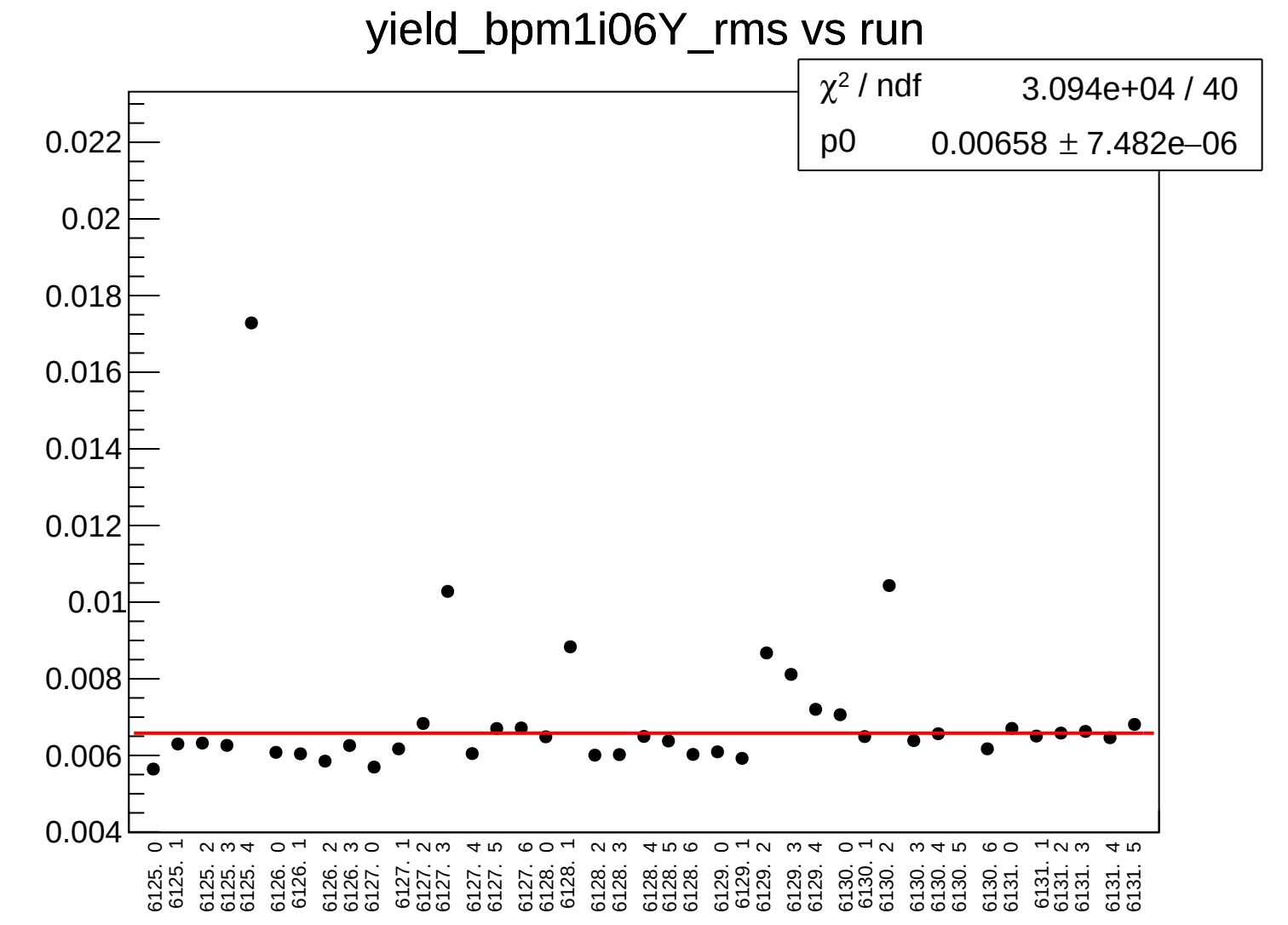

yield_bpm1i06X_mean vs run
χ² / ndf 1.625e+05 / 40
p0 −0.1199 ± 2.168e−05
−0.09
−0.1
−0.11
−0.12
−0.13
−0.14
−0.15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 2421
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

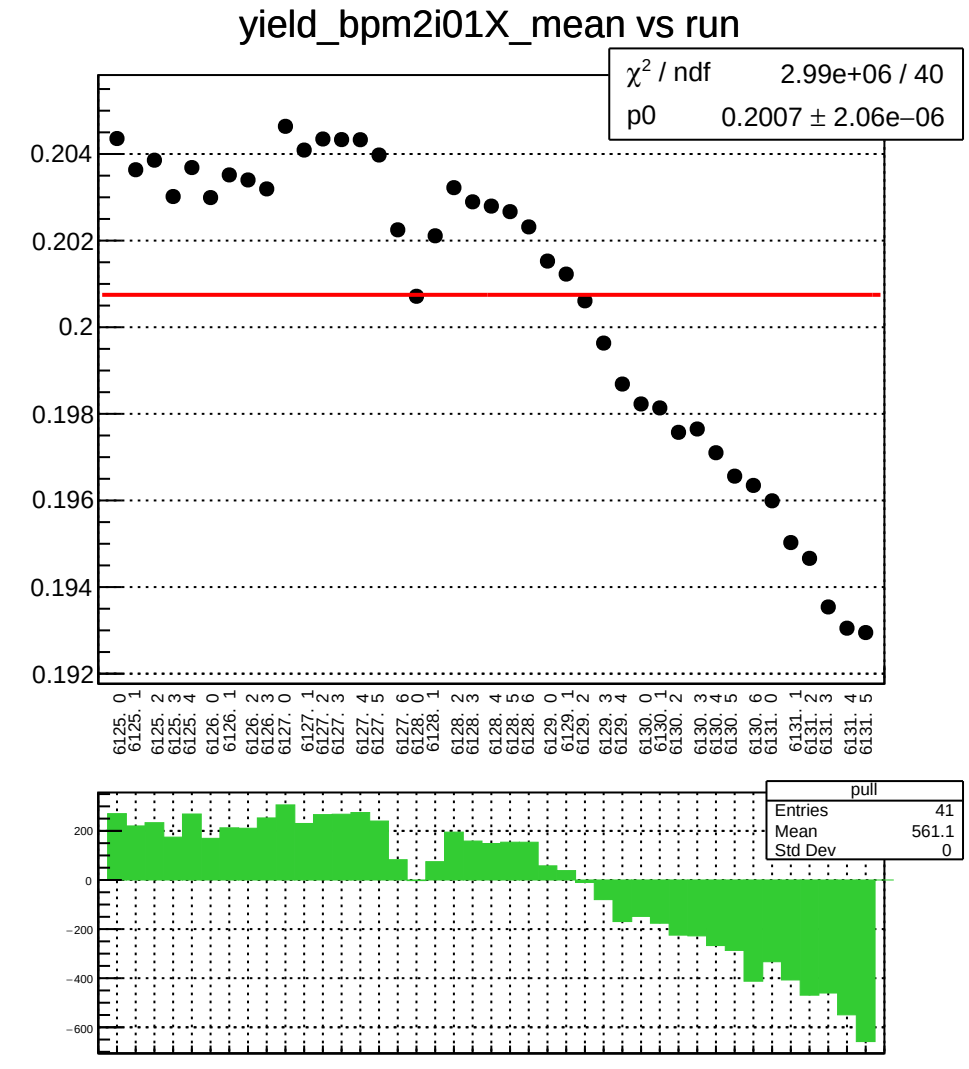

pull1D
Entries 41
Mean 0.9124
Std Dev 4
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

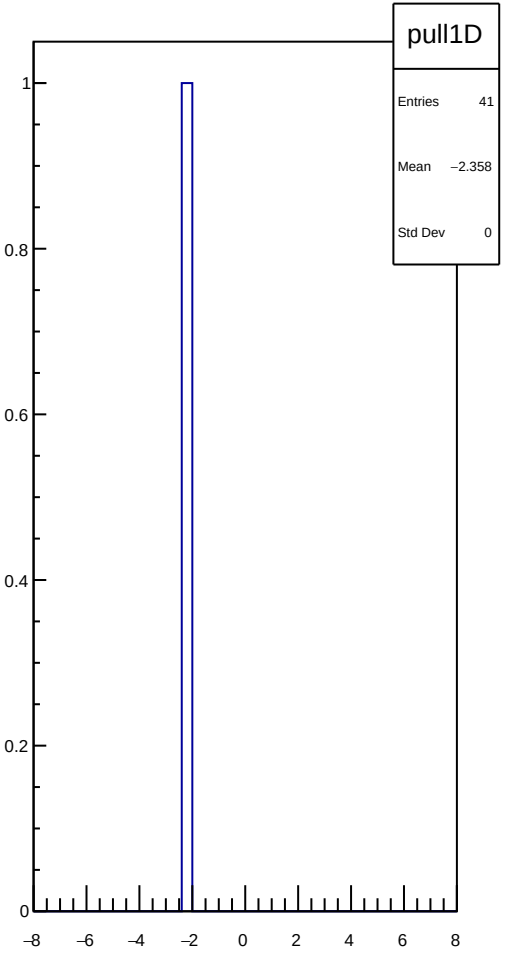

yield_bpm1i06X_rms vs run
χ² / ndf 9008 / 40
p0 0.01367 ± 1.533e–05
0.02
0.018
0.016
0.014
0.012
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

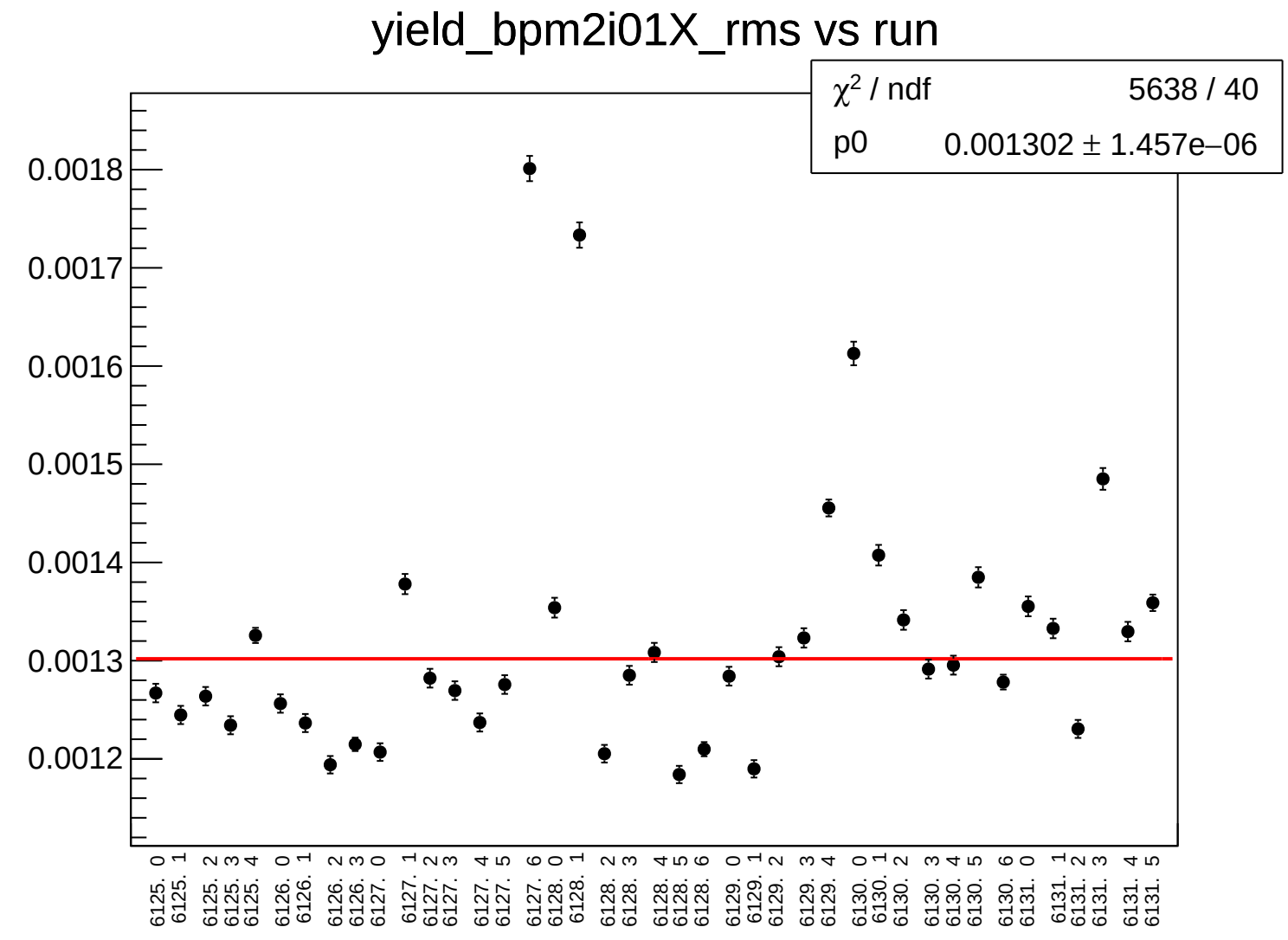

yield_bpm1i06Y_mean vs run
χ² / ndf 9.141e+05 / 40
p0 −1.798 ± 1.058e−05
−1.78
−1.79
−1.8
−1.81
−1.82
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 95.73
Std Dev 0
300
200
100
0
−100
−200
−300

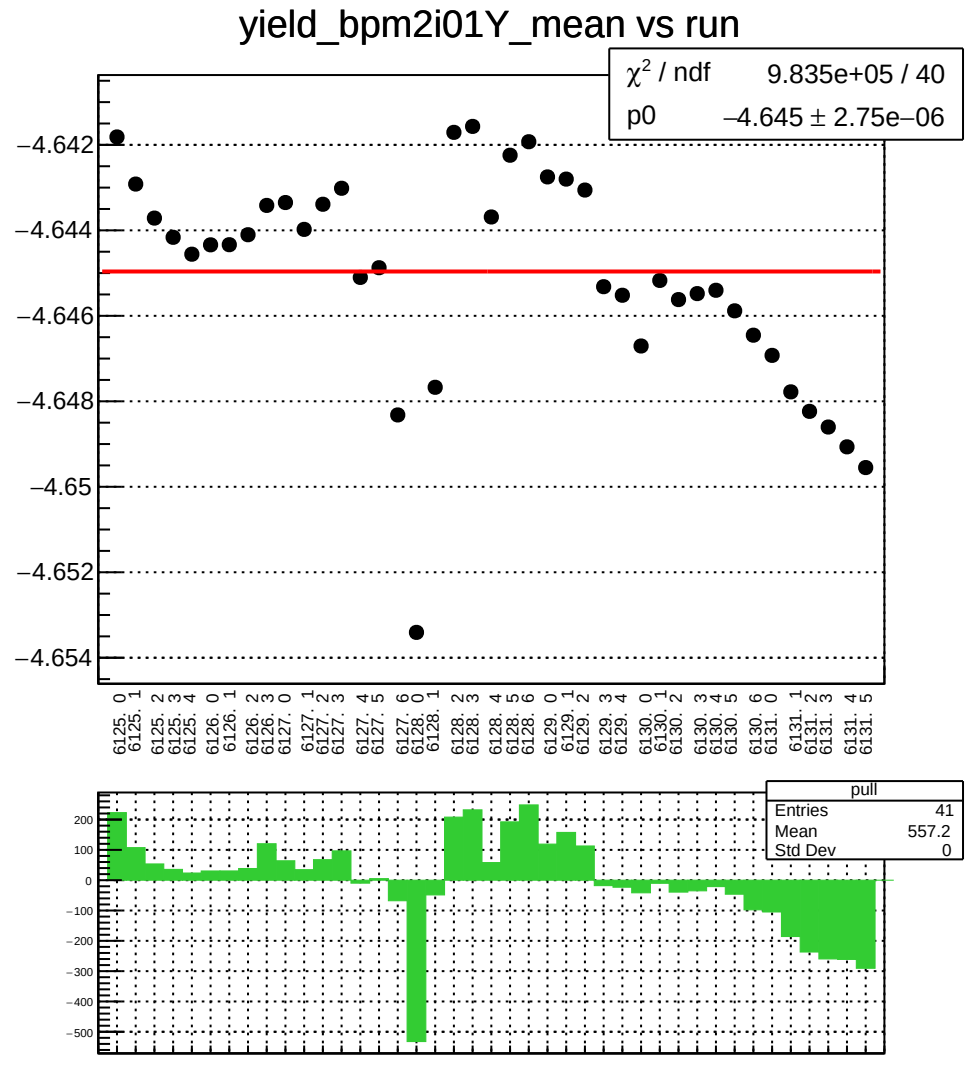

pull1D
Entries 41
Mean −1.91
Std Dev 2.803
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

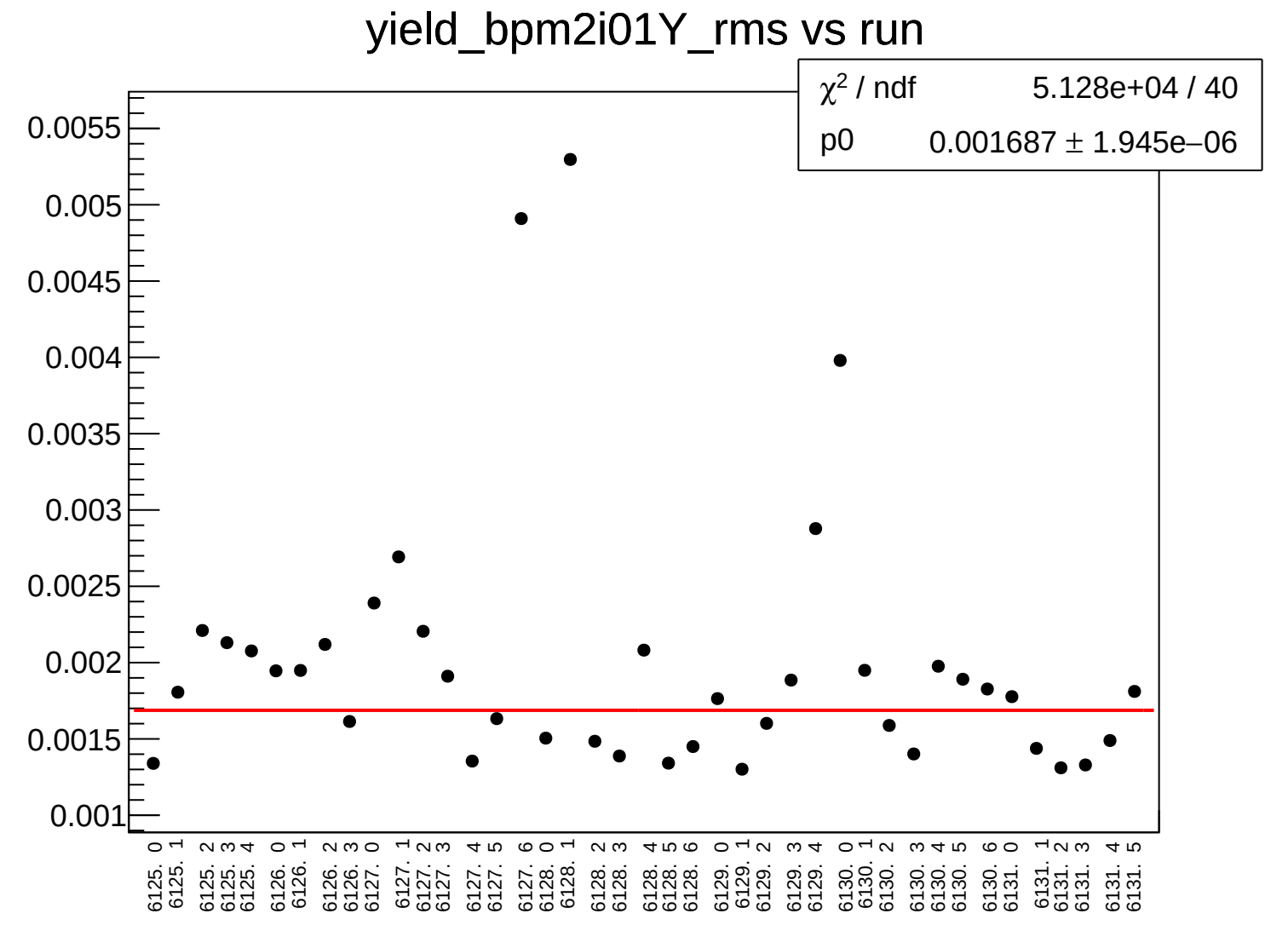

yield_bpm1i06Y_rms vs run
χ² / ndf 3.094e+04 / 40
p0 0.00658 ± 7.482e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

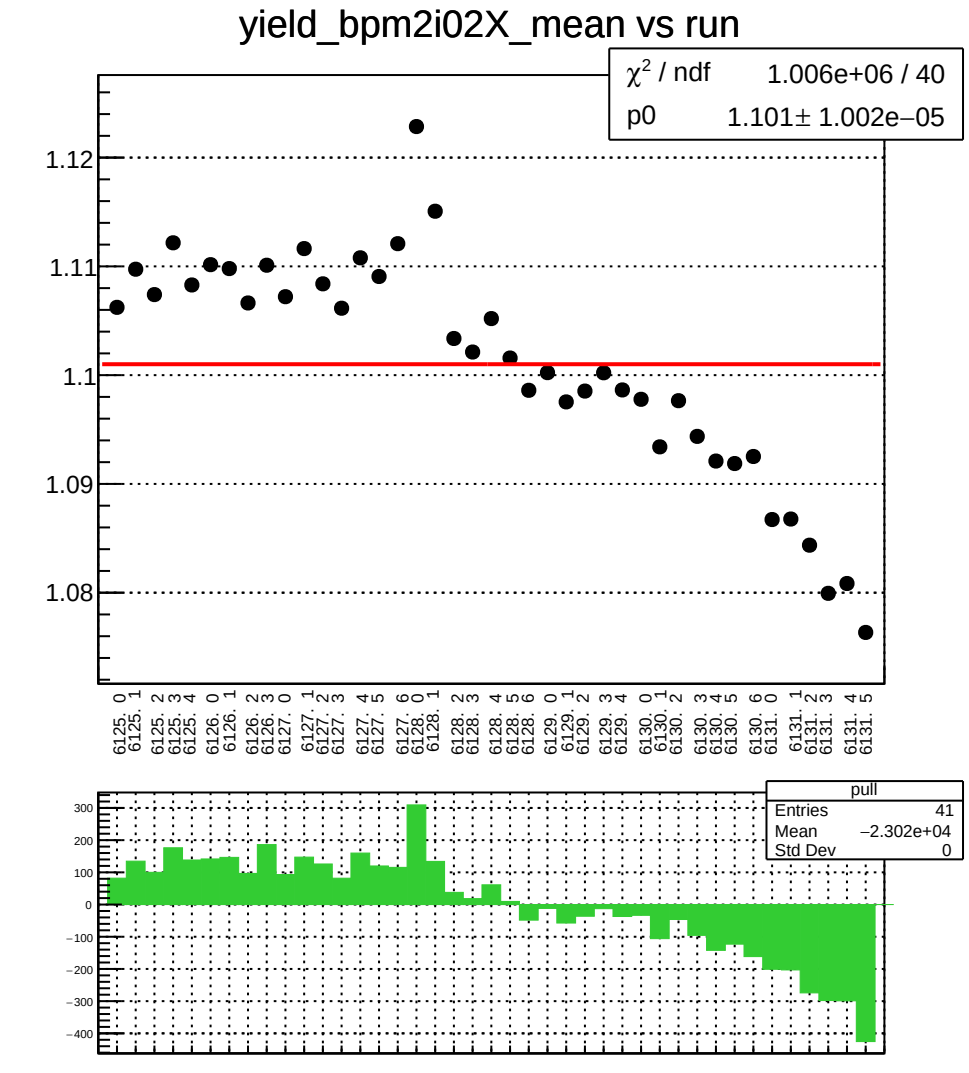

yield_bpm2i01X_mean vs run
χ² / ndf 2.99e+06 / 40
p0 0.2007 ± 2.06e−06
0.204
0.202
0.2
0.198
0.196
0.194
0.192
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 561.1
Std Dev 0
200
0
−200
−400
−600

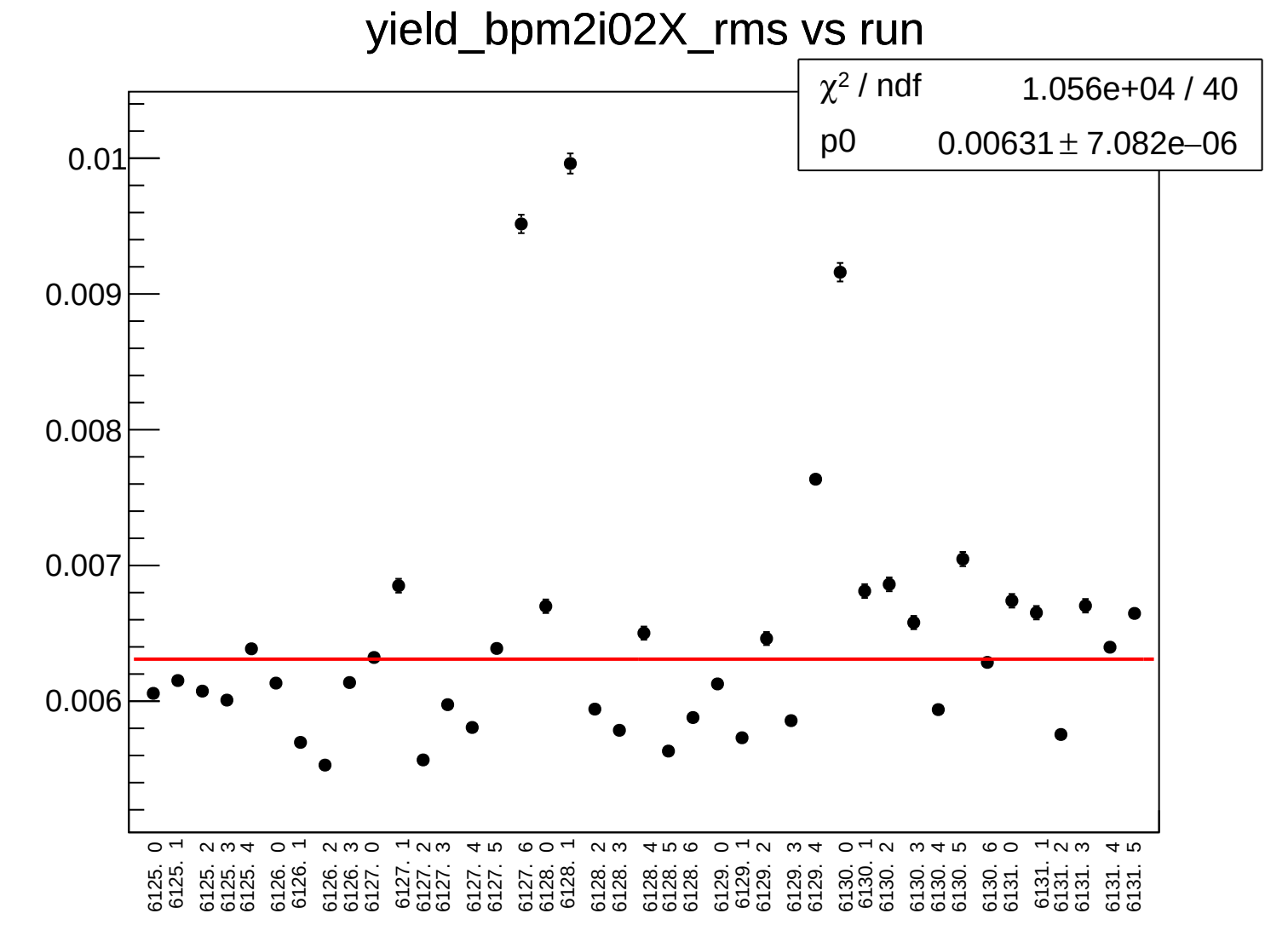

pull1D
Entries 41
Mean −2.358
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

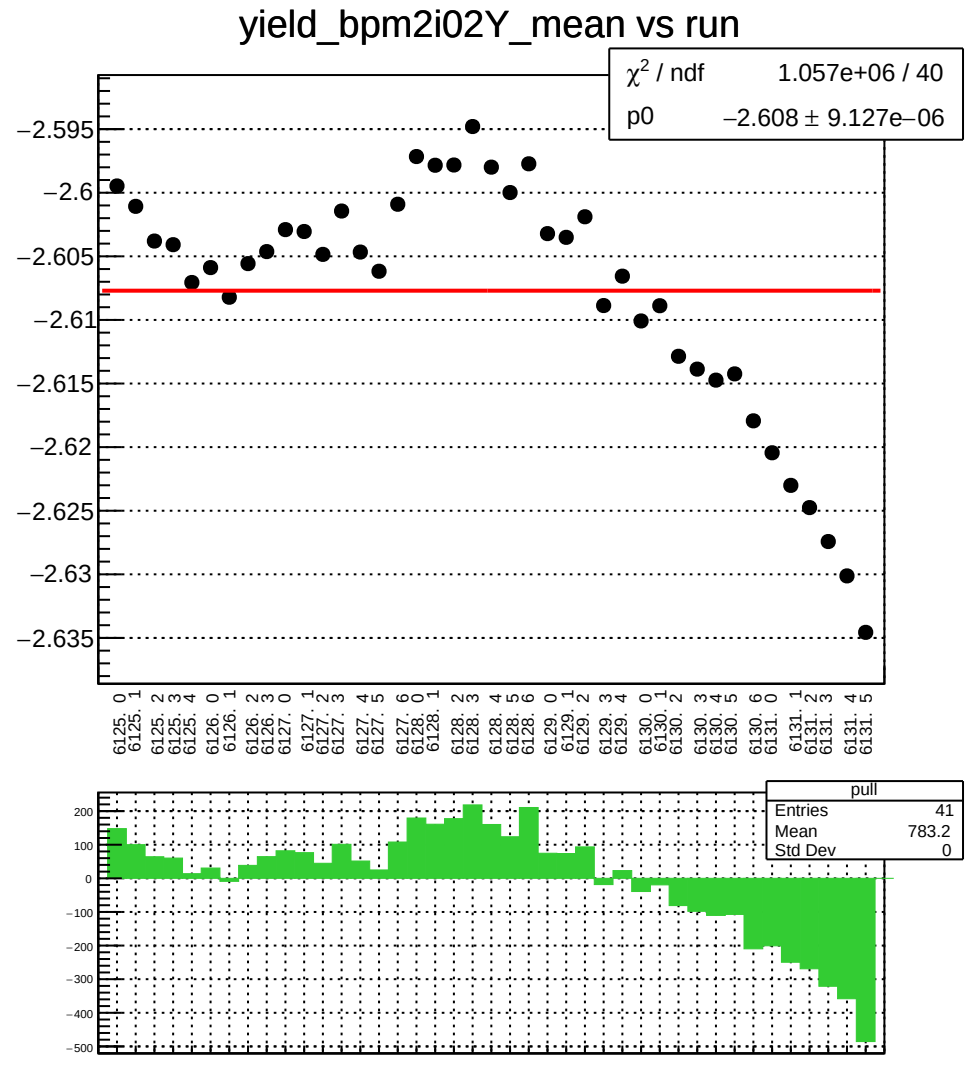

yield_bpm2i01X_rms vs run
χ² / ndf 5638 / 40
p0 0.001302 ± 1.457e−06
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

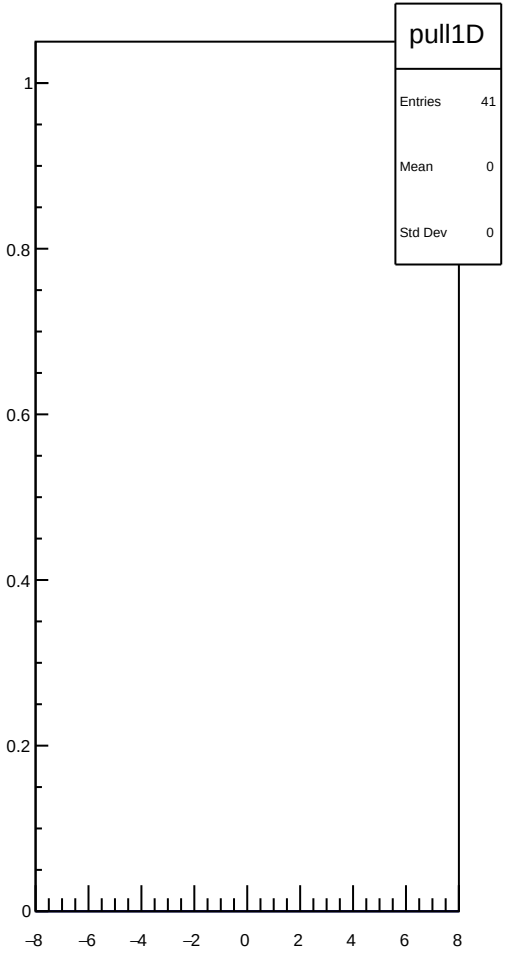

yield_bpm2i01Y_mean vs run
χ² / ndf 9.835e+05 / 40
p0 −4.645 ± 2.75e−06
−4.642
−4.644
−4.646
−4.648
−4.65
−4.652
−4.654
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 557.2
Std Dev 0
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 41
Mean 5.139
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

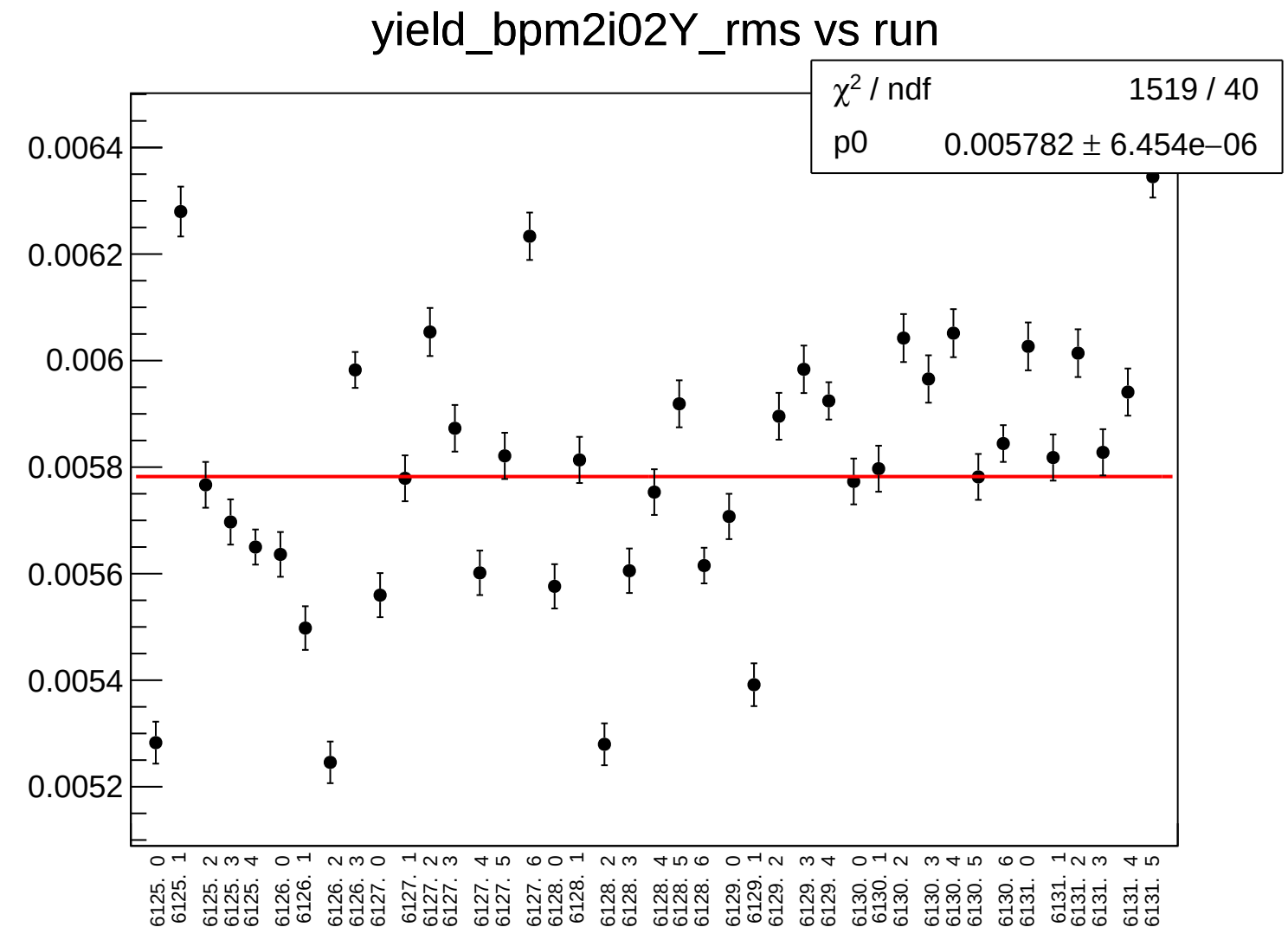

yield_bpm2i01Y_rms vs run
χ² / ndf 5.128e+04 / 40
p0 0.001687 ± 1.945e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

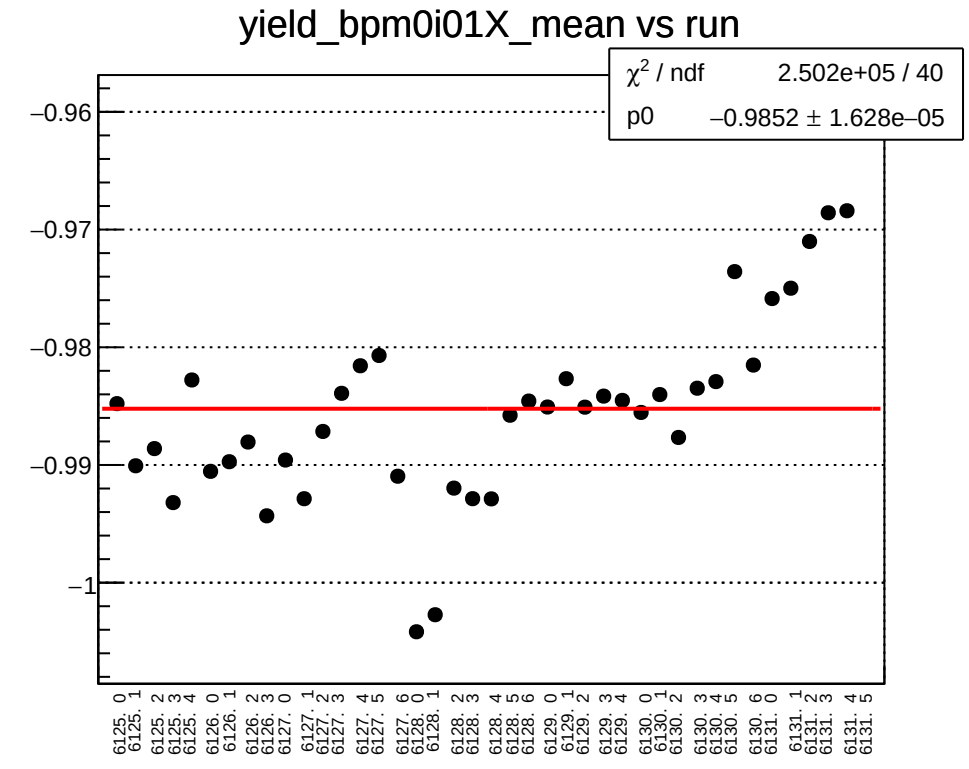

yield_bpm2i02X_mean vs run
χ² / ndf 1.006e+06 / 40
p0 1.101± 1.002e−05
1.12
1.11
1.1
1.09
1.08
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −2.302e+04
Std Dev 0
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

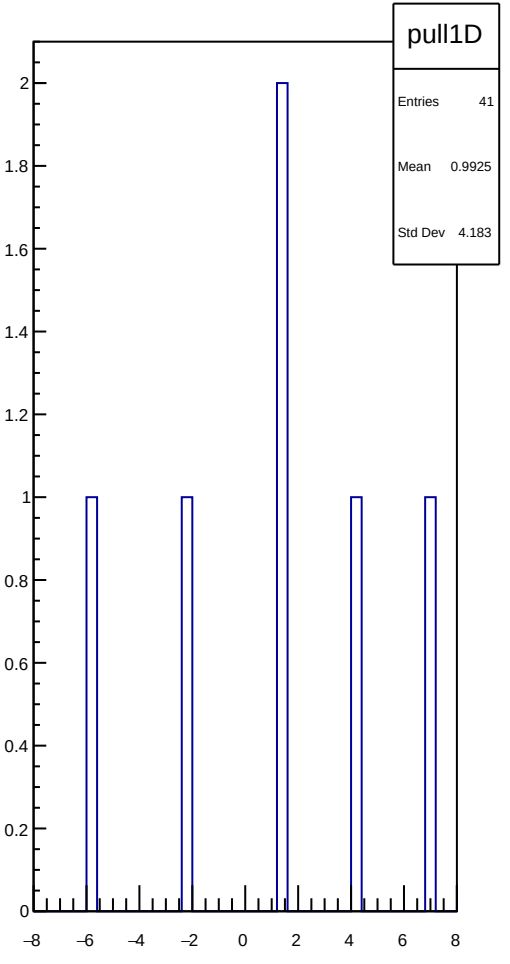

yield_bpm2i02X_rms vs run
χ² / ndf 1.056e+04 / 40
p0 0.00631 ± 7.082e–06
0.01
0.009
0.008
0.007
0.006
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

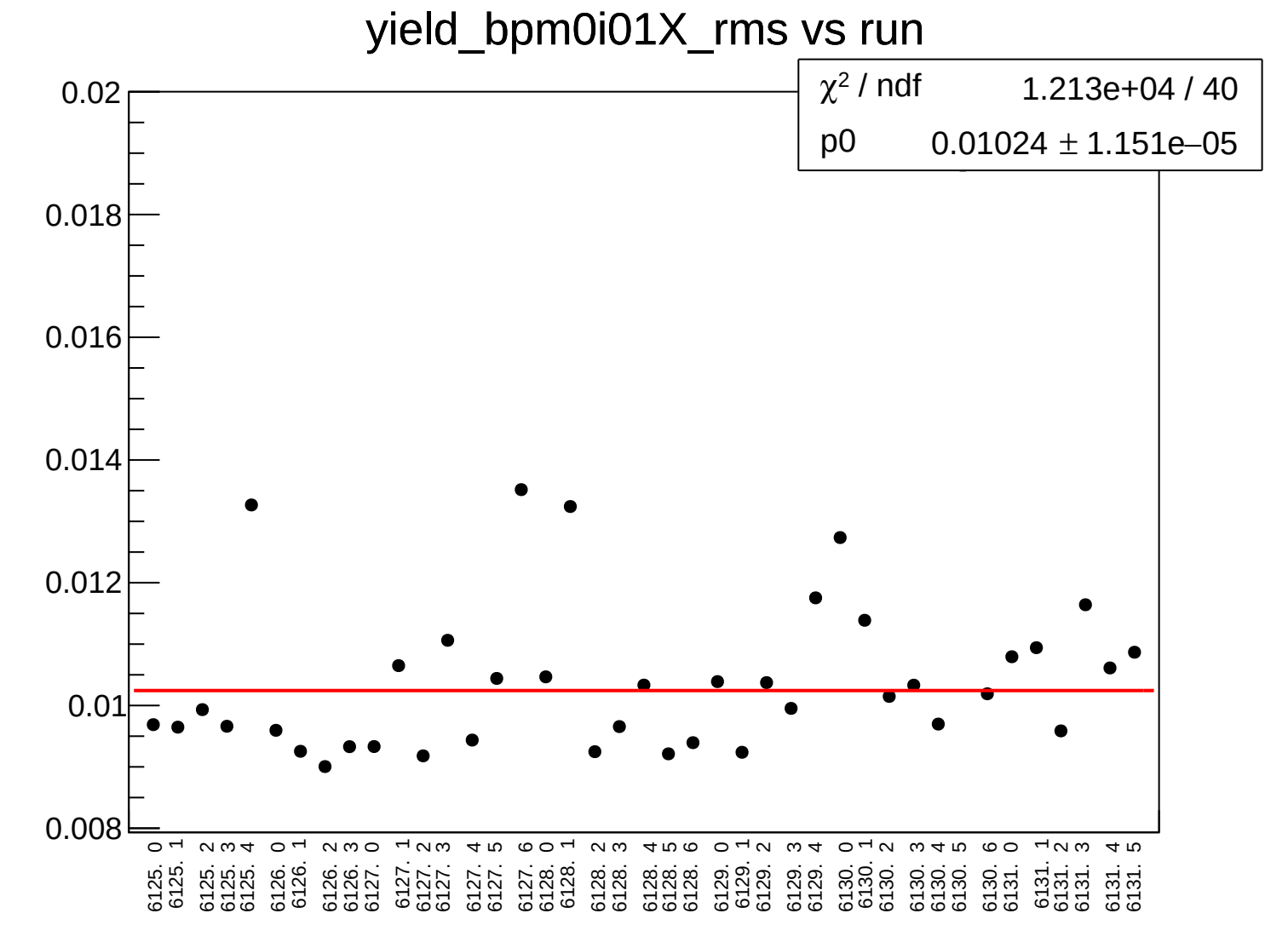

yield_bpm2i02Y_mean vs run
χ² / ndf 1.057e+06 / 40
p0 −2.608 ± 9.127e−06
−2.595
−2.6
−2.605
−2.61
−2.615
−2.62
−2.625
−2.63
−2.635
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 783.2
Std Dev 0
200
100
0
−100
−200
−300
−400
−500

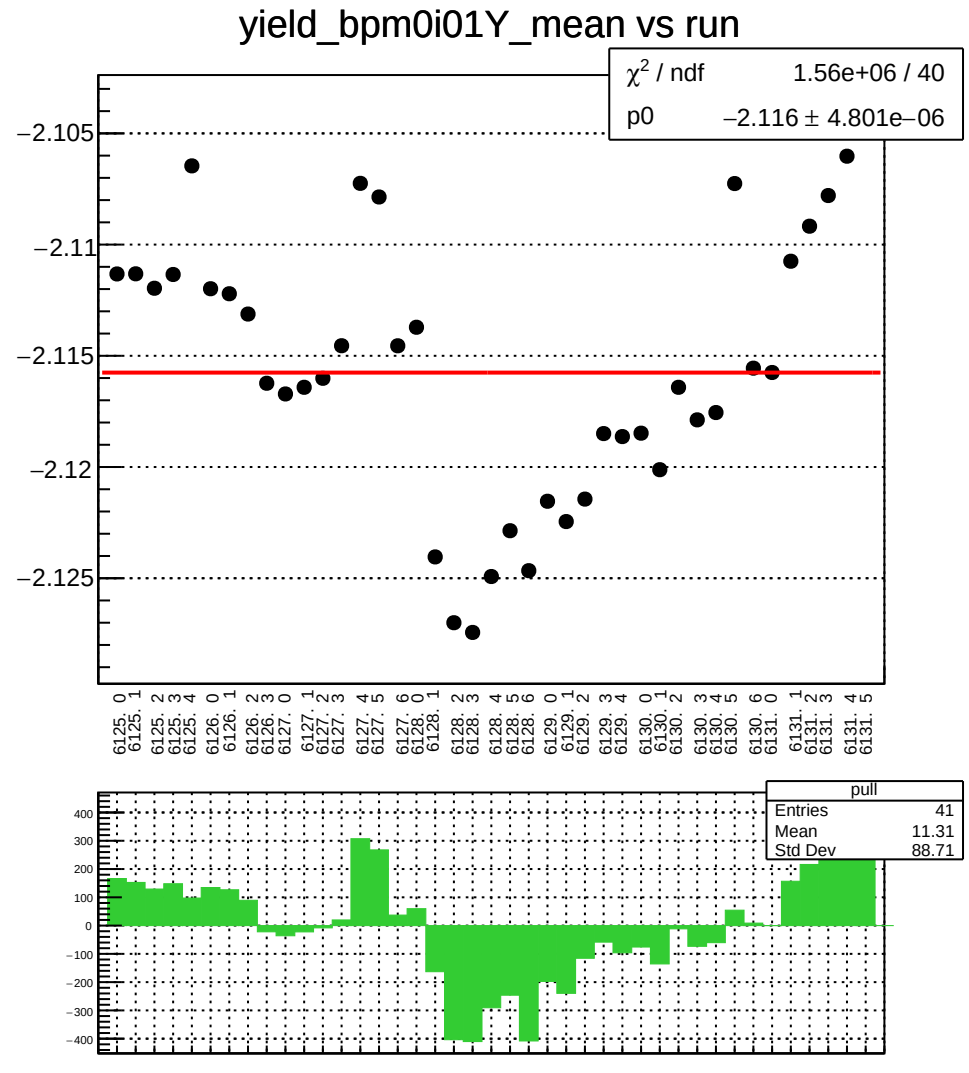

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

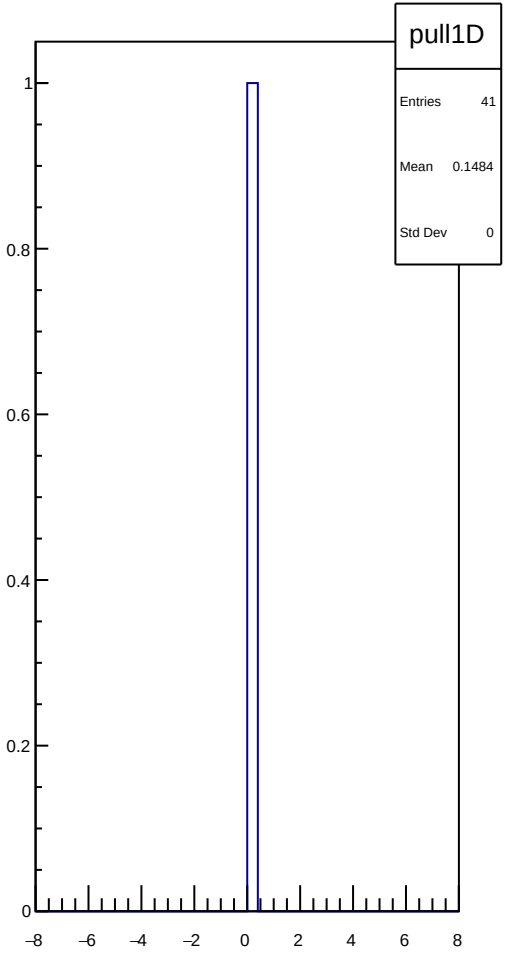

yield_bpm2i02Y_rms vs run
χ² / ndf 1519 / 40
p0 0.005782 ± 6.454e−06
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

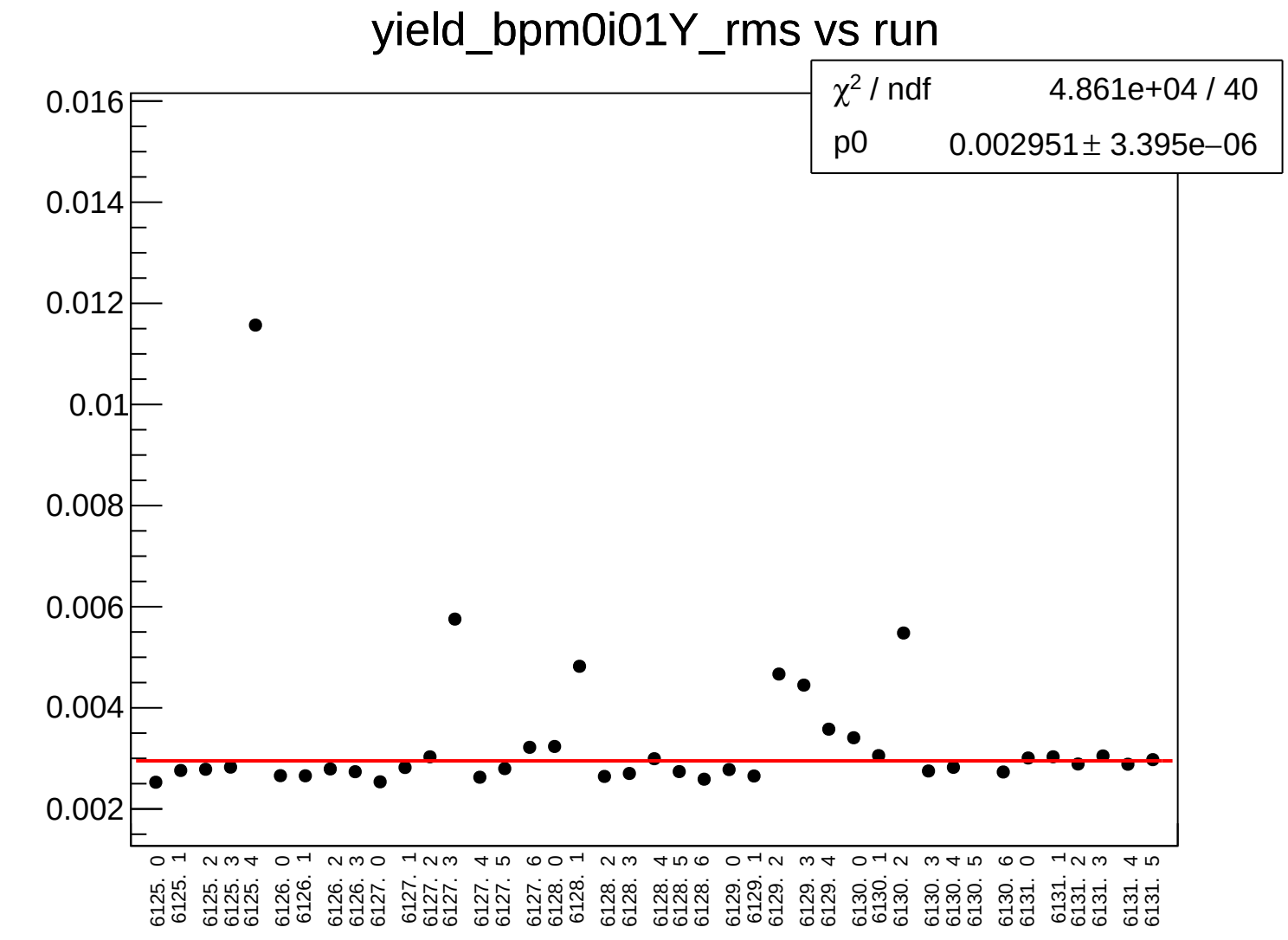

yield_bpm0i01X_mean vs run
χ² / ndf 2.502e+05 / 40
p0 −0.9852 ± 1.628e−05
−0.96
−0.97
−0.98
−0.99
−1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 581.7
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

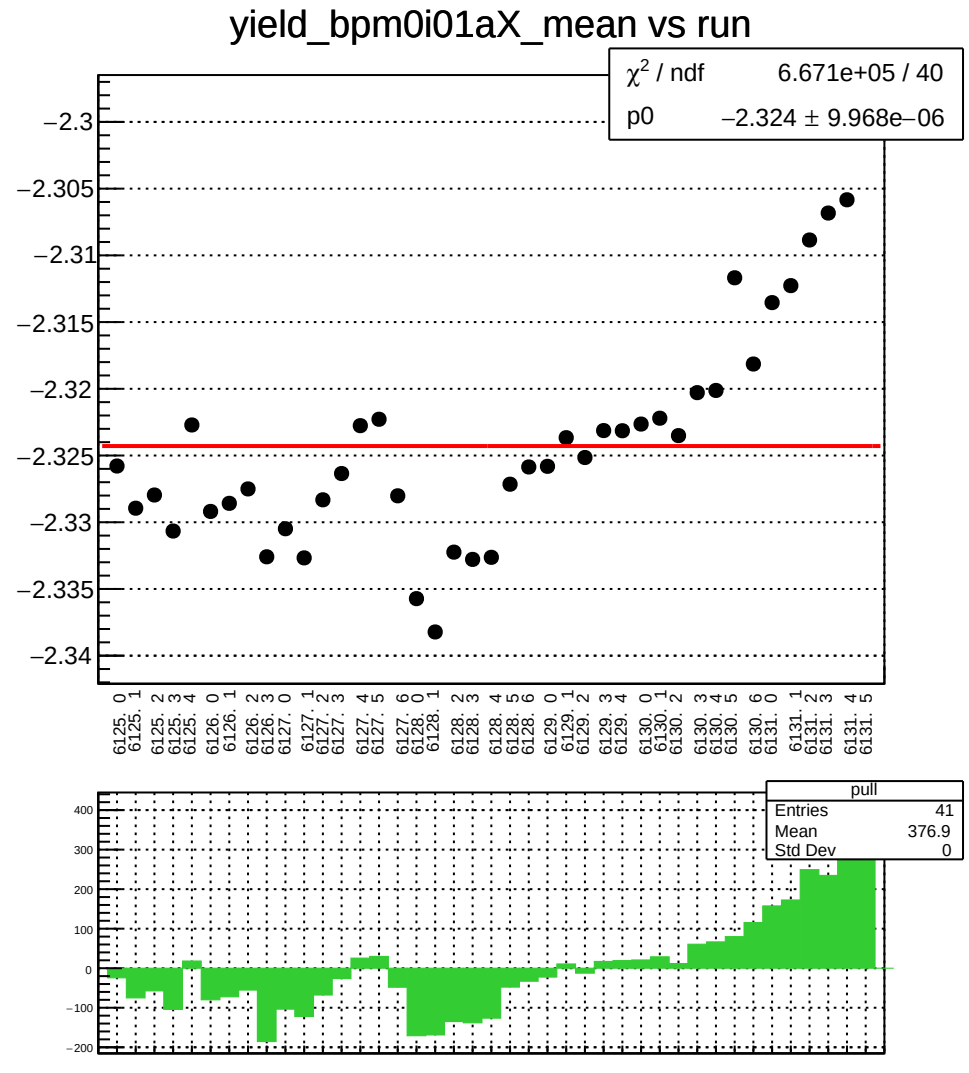

pull1D
Entries 41
Mean 0.9925
Std Dev 4.183
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

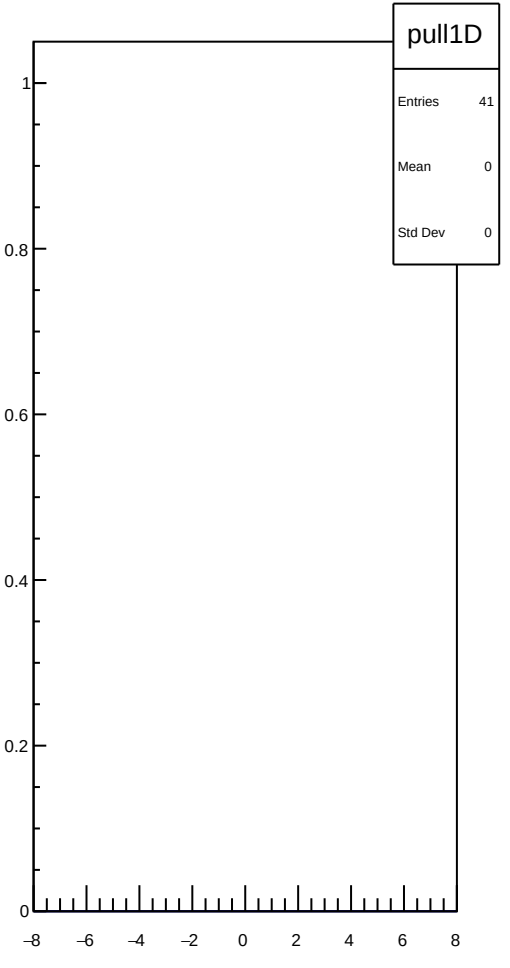

yield_bpm0i01X_rms vs run
χ² / ndf 1.213e+04 / 40
p0 0.01024 ± 1.151e–05
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

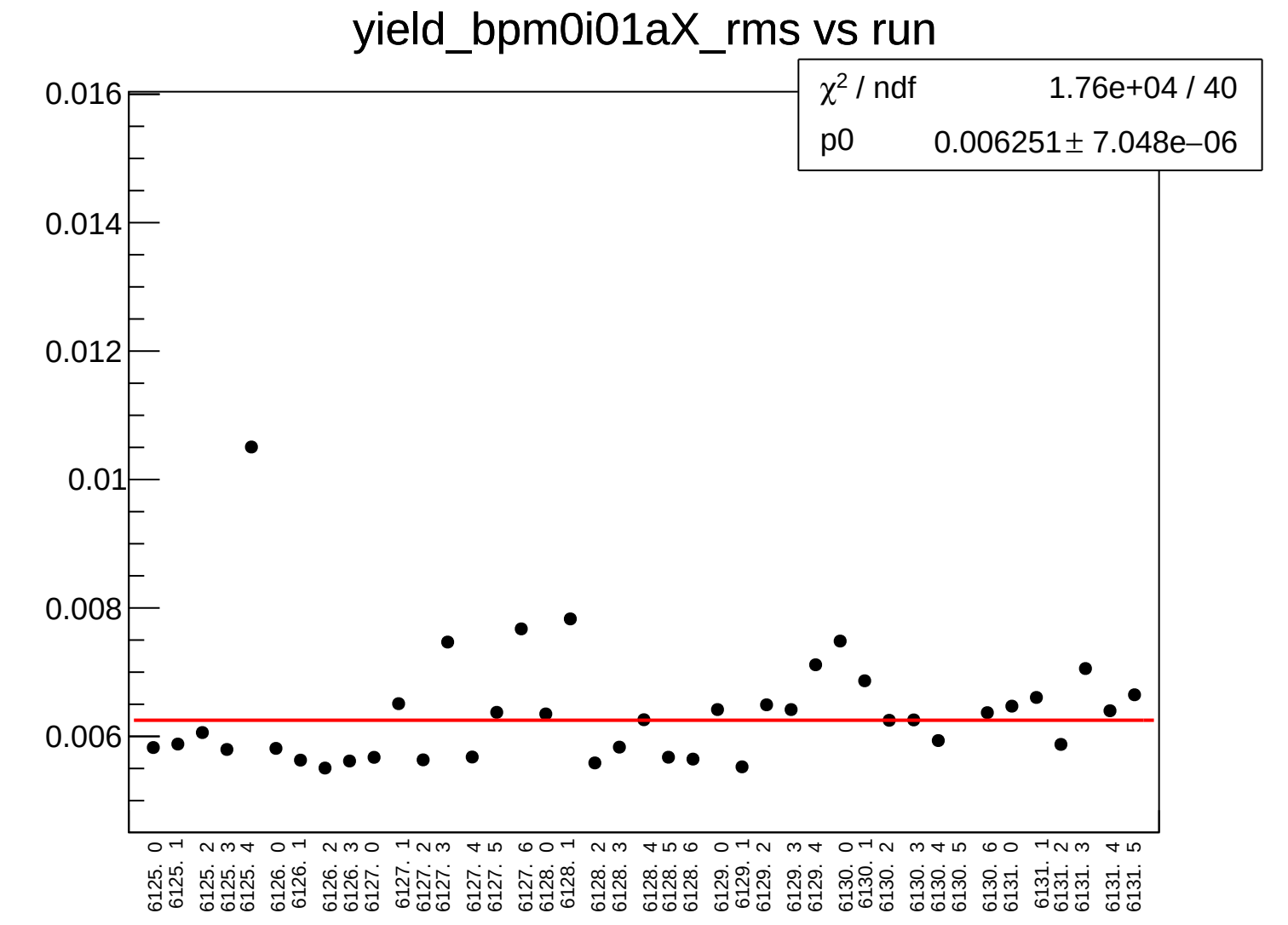

yield_bpm0i01Y_mean vs run
χ² / ndf 1.56e+06 / 40
p0 −2.116 ± 4.801e−06
−2.105
−2.11
−2.115
−2.12
−2.125
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 11.31
Std Dev 88.71
400
300
200
100
0
−100
−200
−300
−400

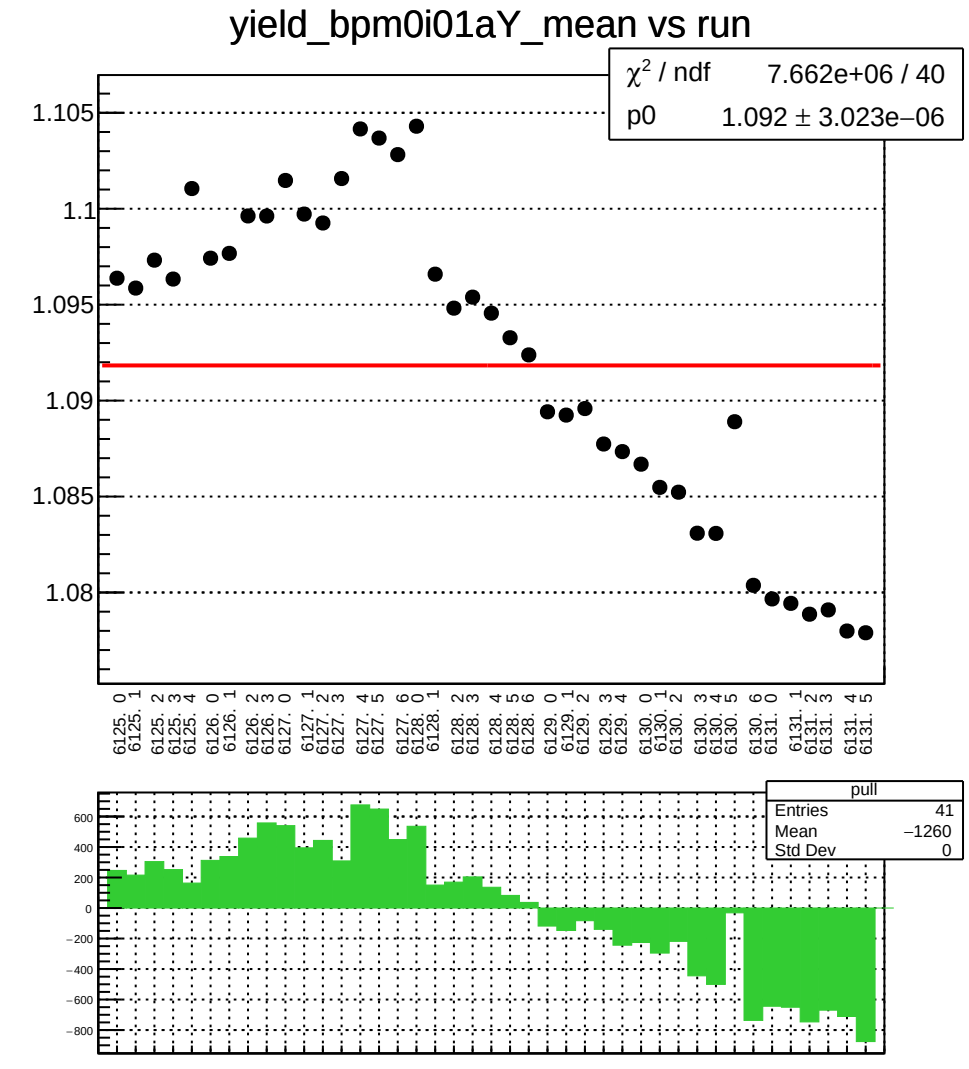

pull1D
Entries 41
Mean 0.1484
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

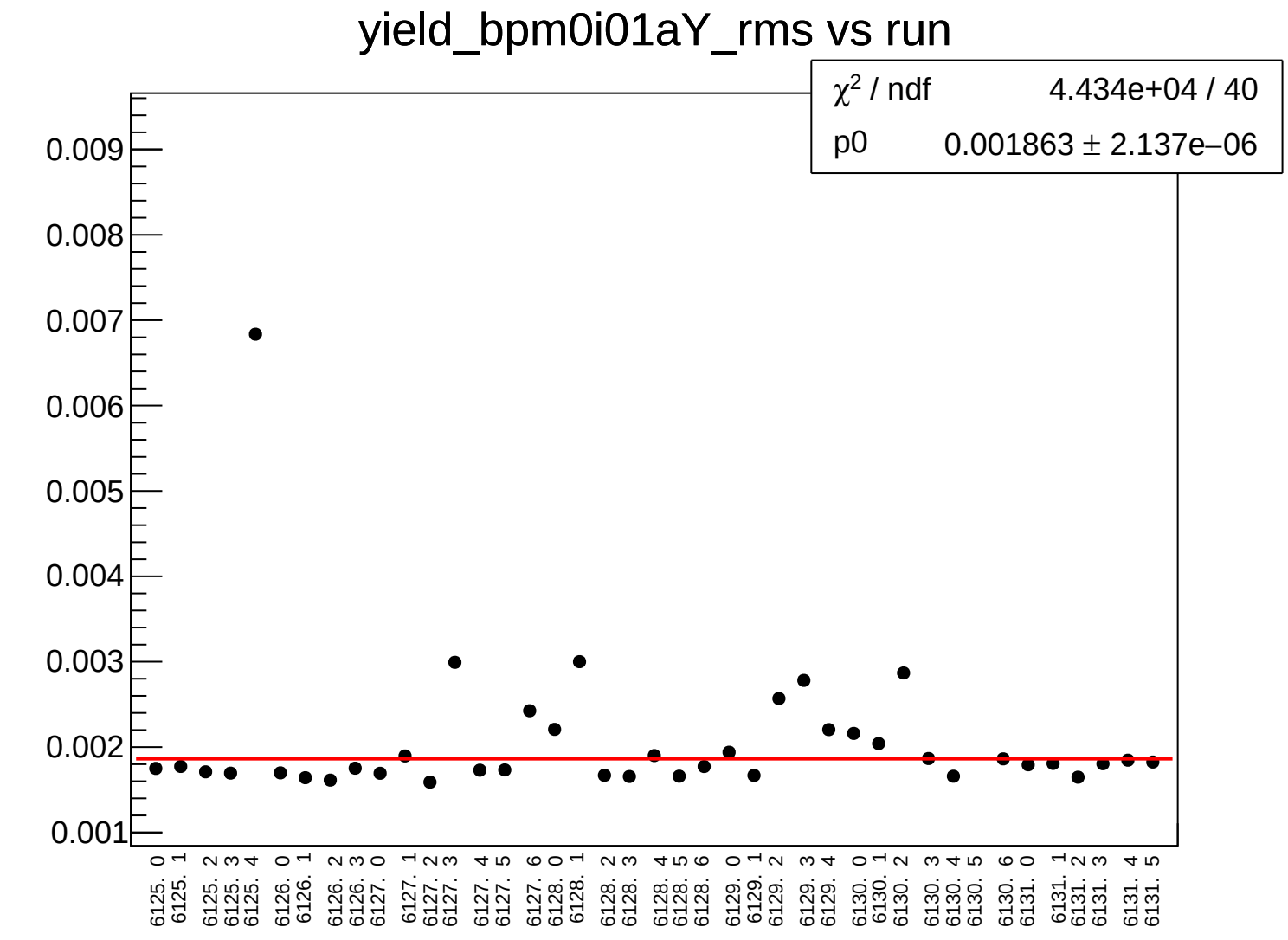

yield_bpm0i01Y_rms vs run
χ² / ndf 4.861e+04 / 40
p0 0.002951 ± 3.395e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

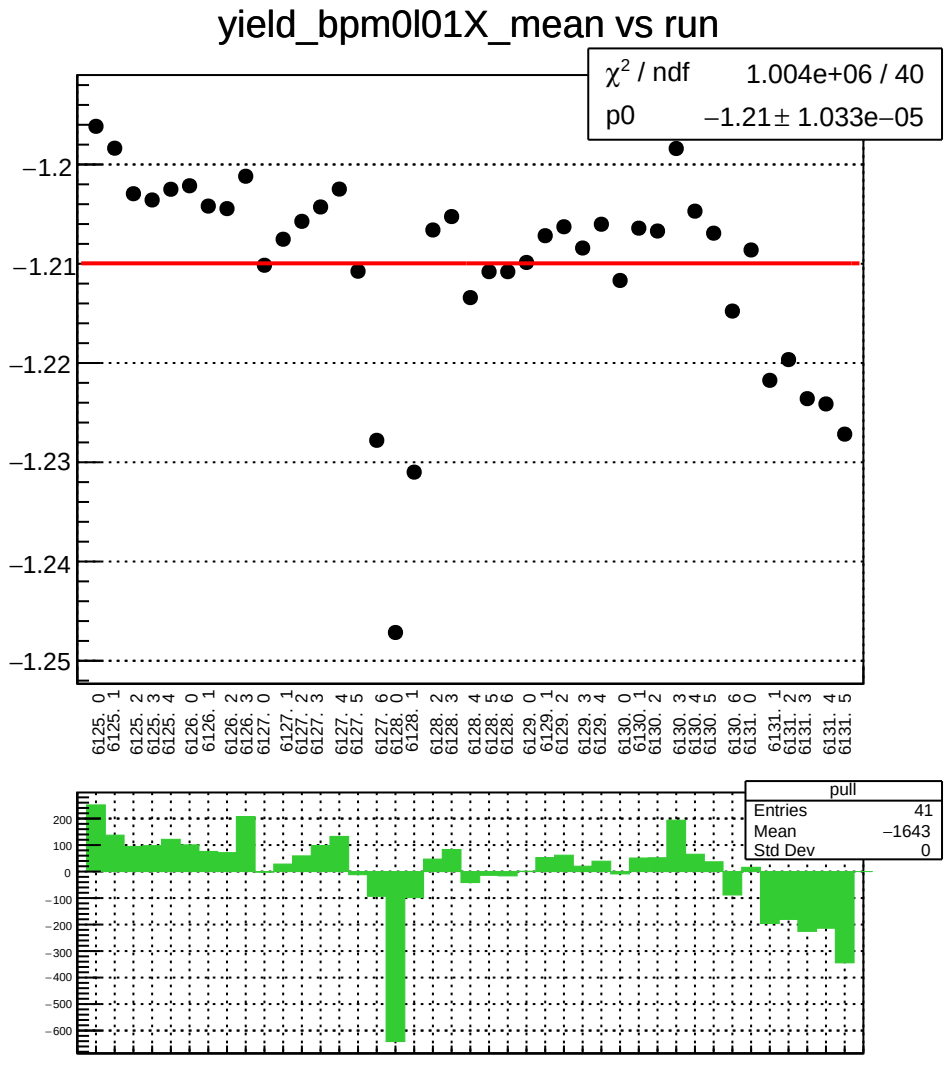

yield_bpm0i01aX_mean vs run
χ² / ndf 6.671e+05 / 40
p0 −2.324 ± 9.968e−06
−2.3
−2.305
−2.31
−2.315
−2.32
−2.325
−2.33
−2.335
−2.34
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 376.9
Std Dev 0
400
300
200
100
0
−100
−200

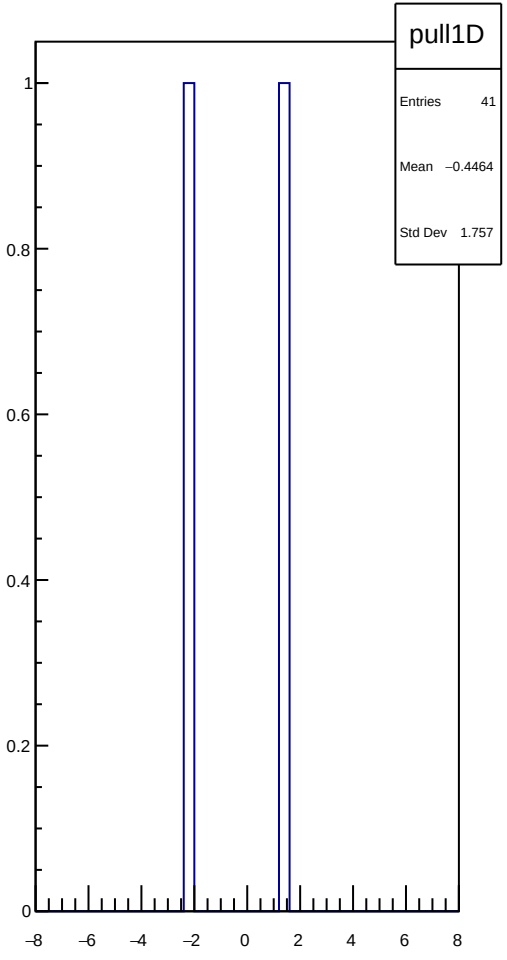

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

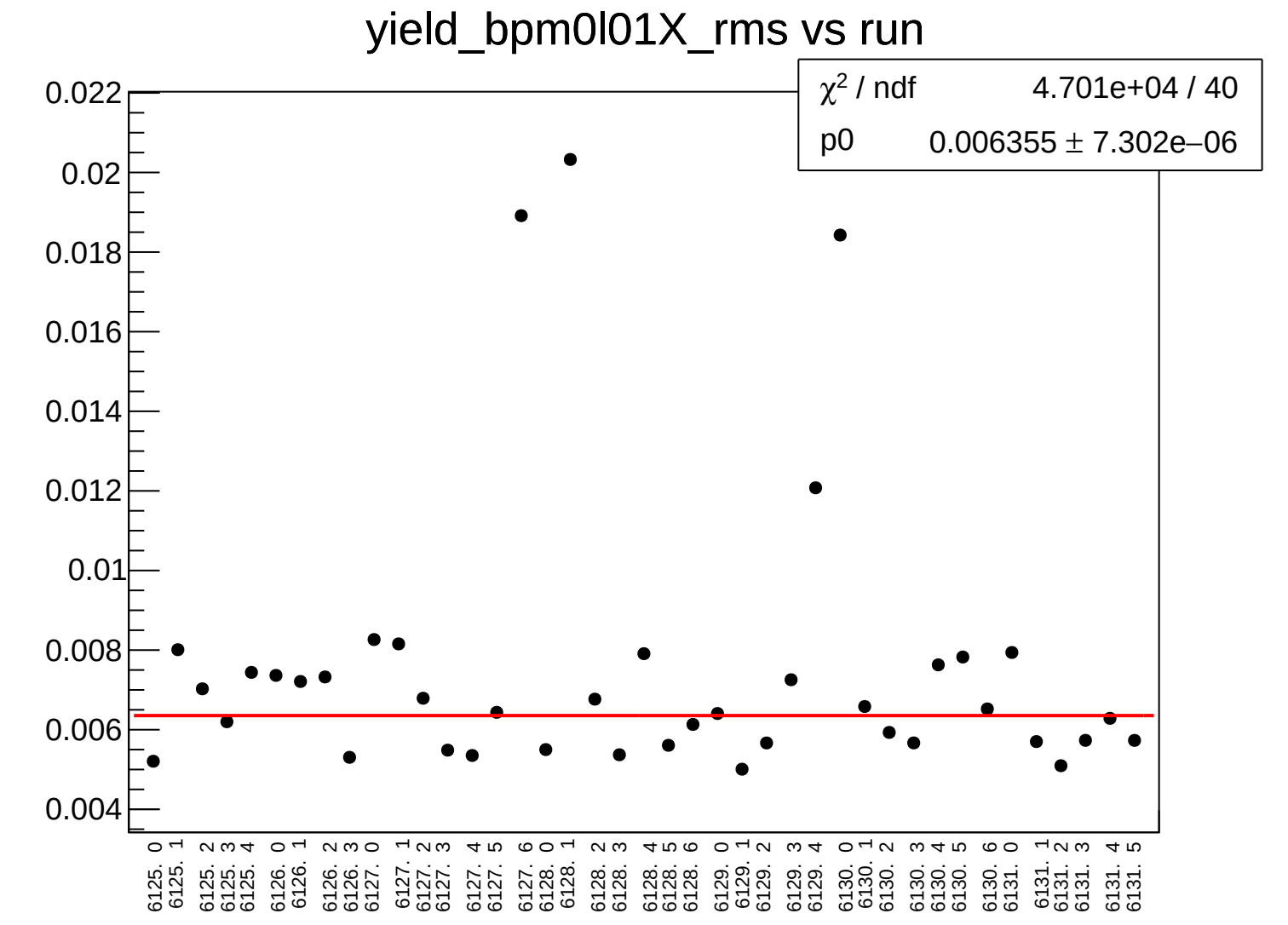

yield_bpm0i01aX_rms vs run
χ² / ndf 1.76e+04 / 40
p0 0.006251 ± 7.048e−06
0.016
0.014
0.012
0.01
0.008
0.006
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

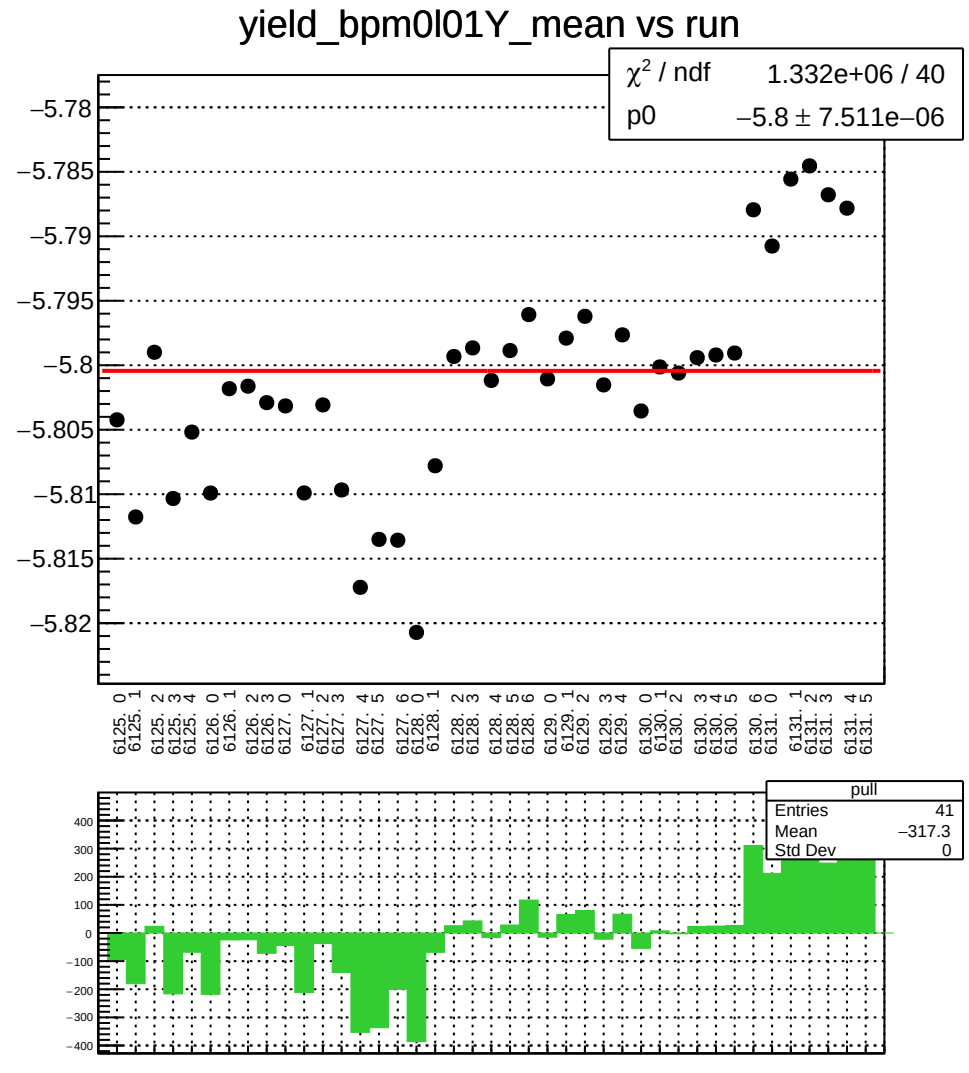

yield_bpm0i01aY_mean vs run
χ² / ndf 7.662e+06 / 40
p0 1.092 ± 3.023e−06
1.105
1.1
1.095
1.09
1.085
1.08
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1260
Std Dev 0
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

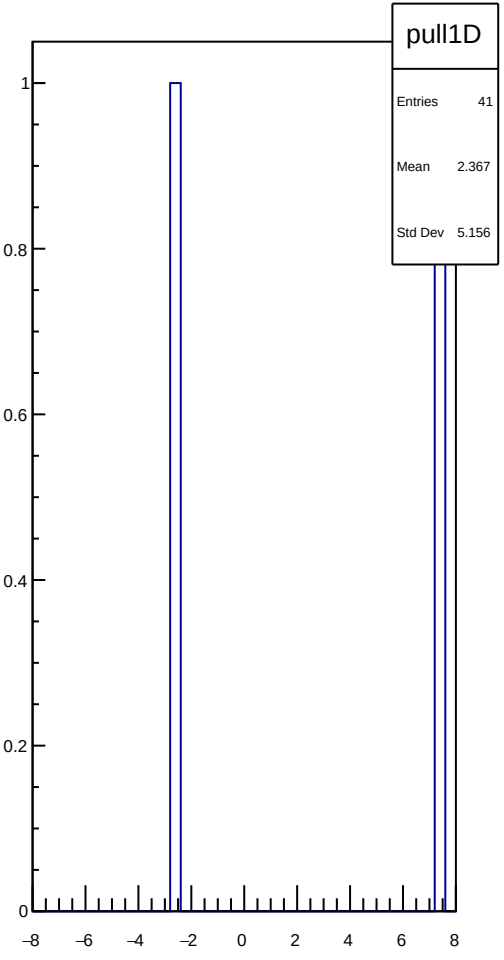

yield_bpm0i01aY_rms vs run
χ² / ndf 4.434e+04 / 40
p0 0.001863 ± 2.137e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

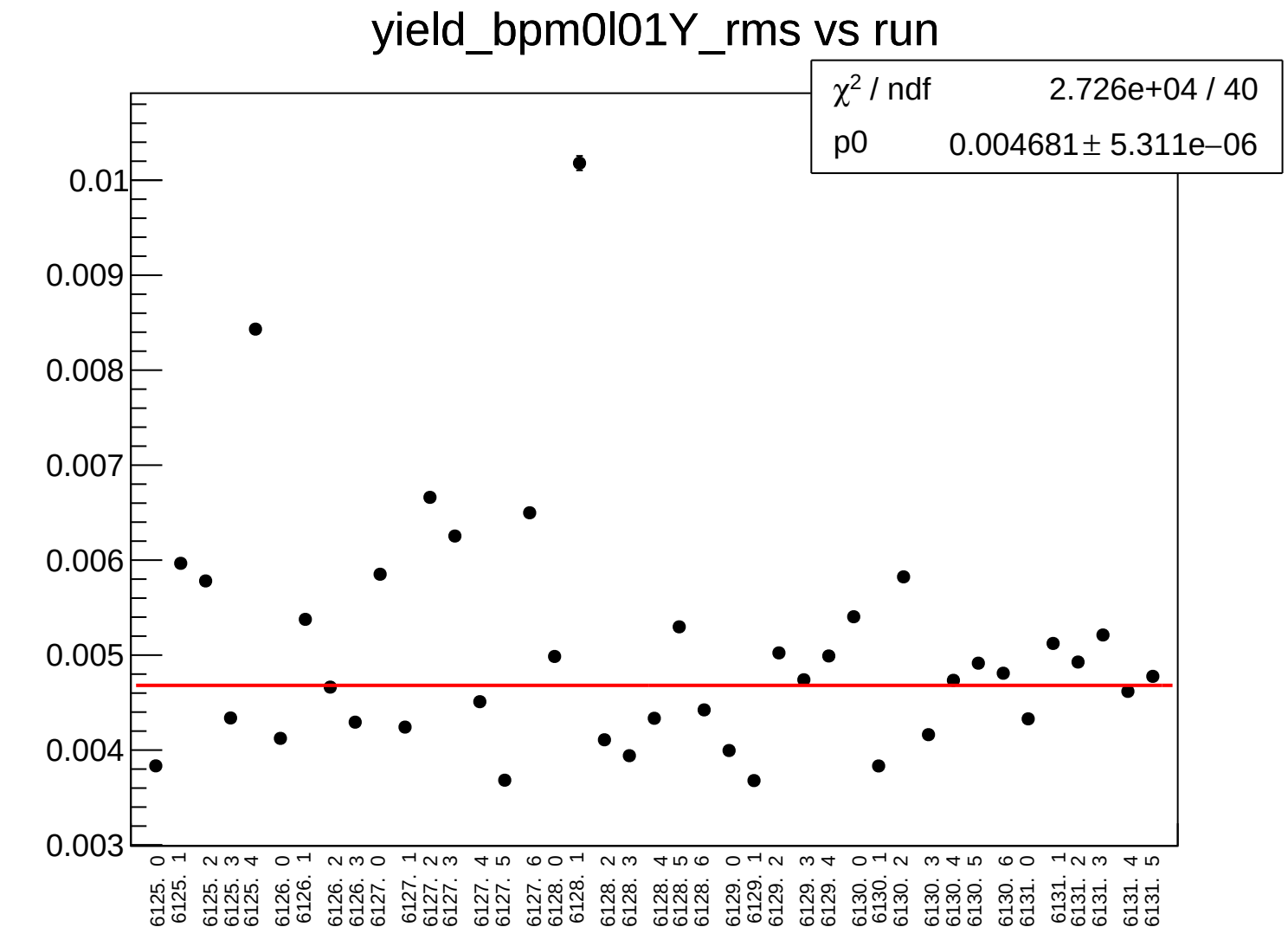

yield_bpm0l01X_mean vs run
χ² / ndf 1.004e+06 / 40
p0 −1.21 ± 1.033e−05
−1.2
−1.21
−1.22
−1.23
−1.24
−1.25
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1643
Std Dev 0
200
100
0
−100
−200
−300
−400
−500
−600

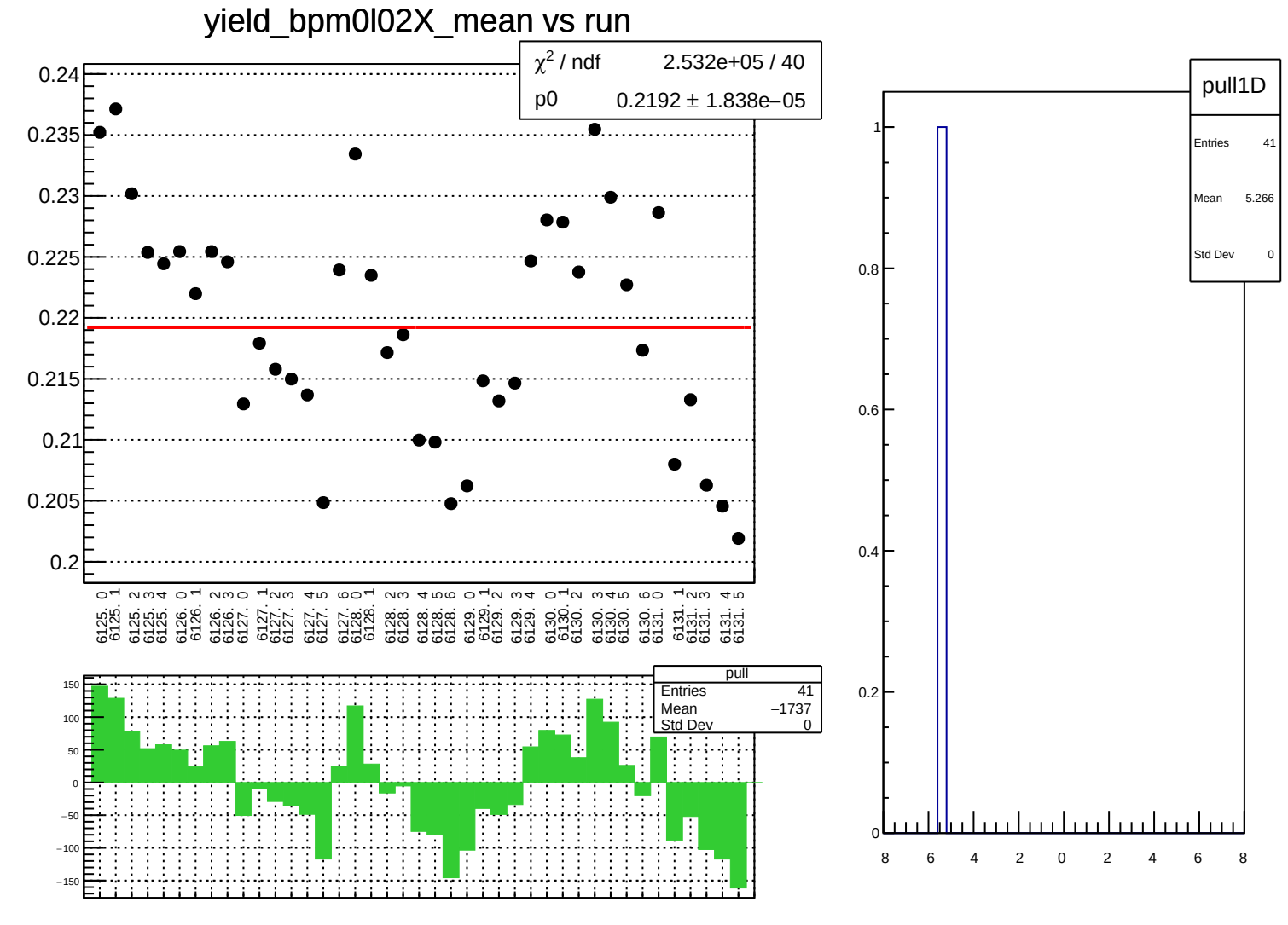

pull1D
Entries 41
Mean −0.4464
Std Dev 1.757
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

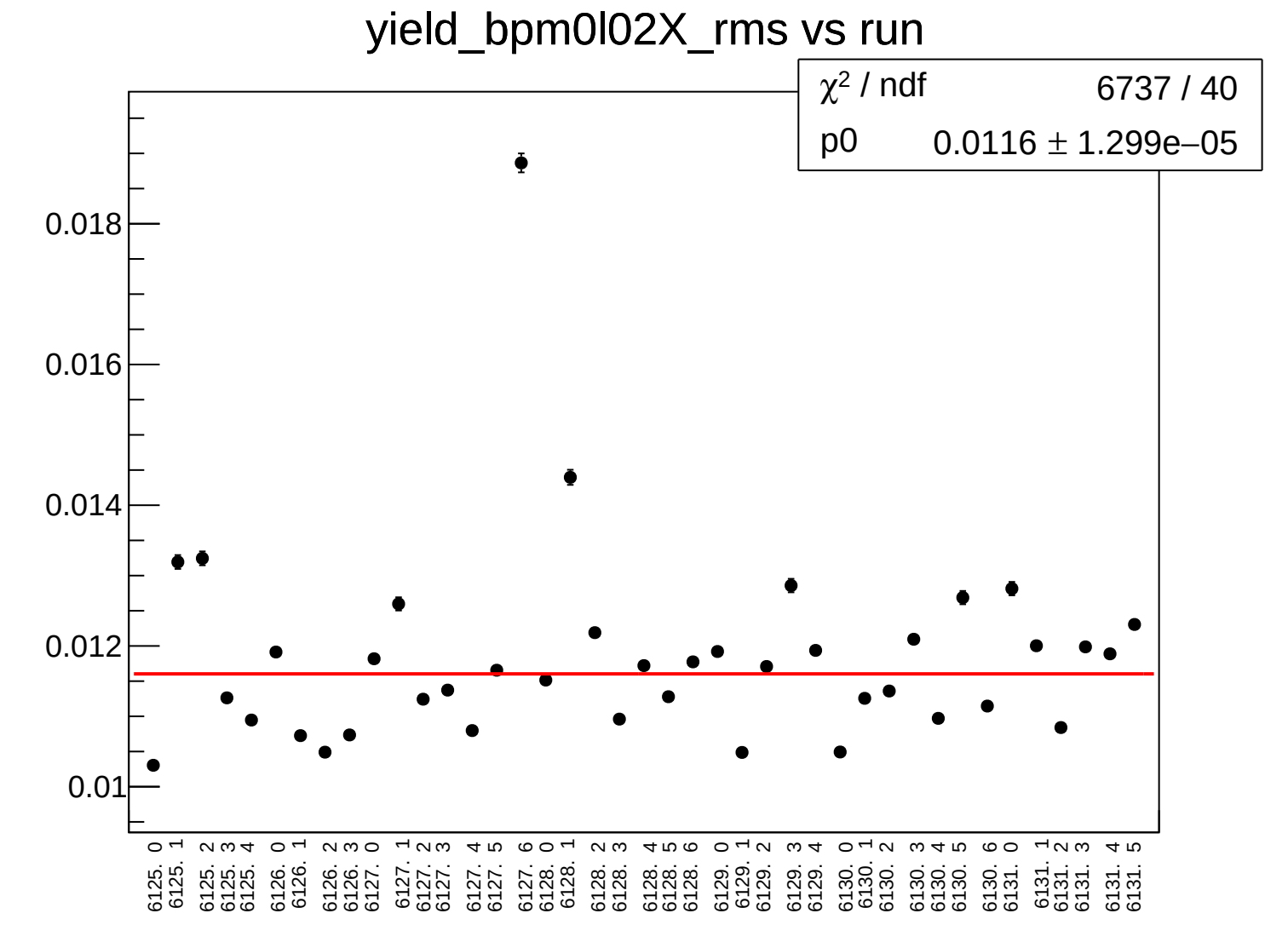

yield_bpm0l01X_rms vs run
χ² / ndf 4.701e+04 / 40
p0 0.006355 ± 7.302e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

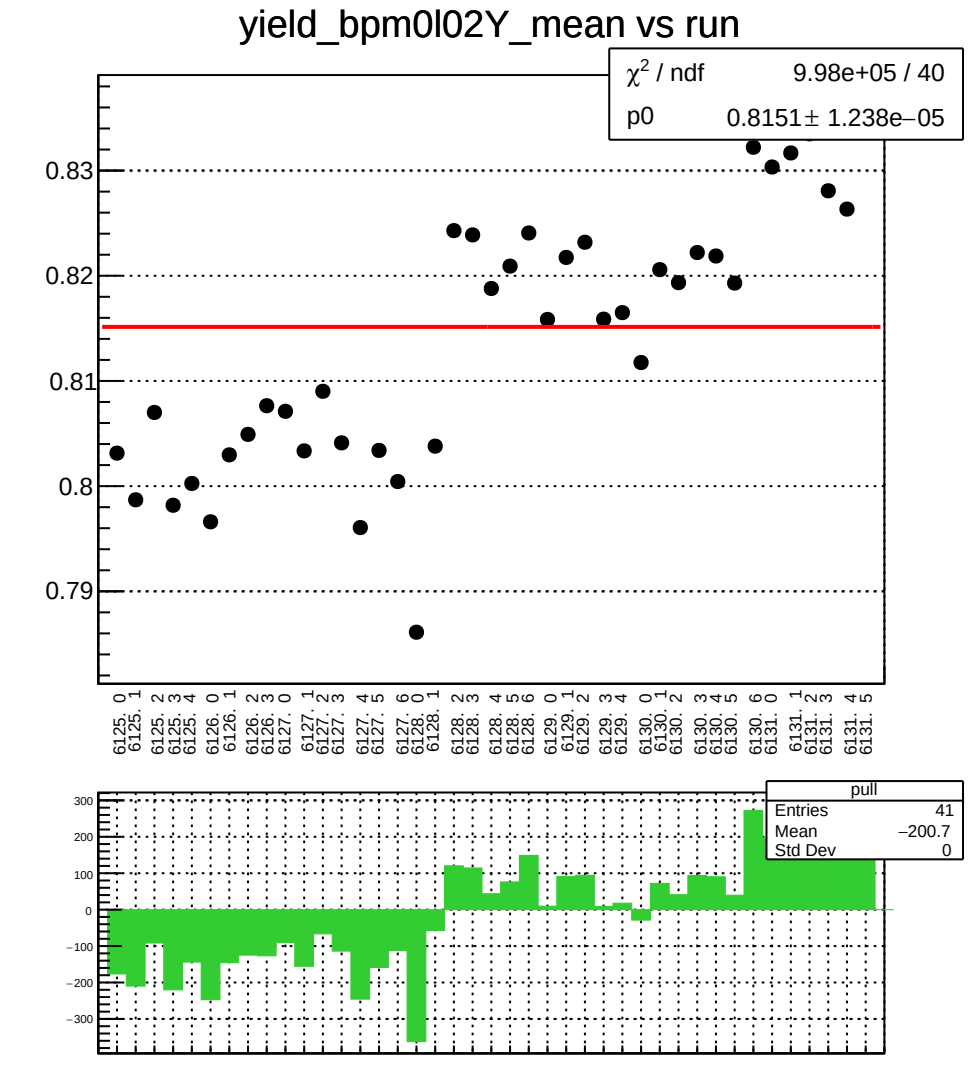

yield_bpm0l01Y_mean vs run
χ² / ndf 1.332e+06 / 40
p0 −5.8 ± 7.511e−06
−5.78
−5.785
−5.79
−5.795
−5.8
−5.805
−5.81
−5.815
−5.82
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −317.3
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

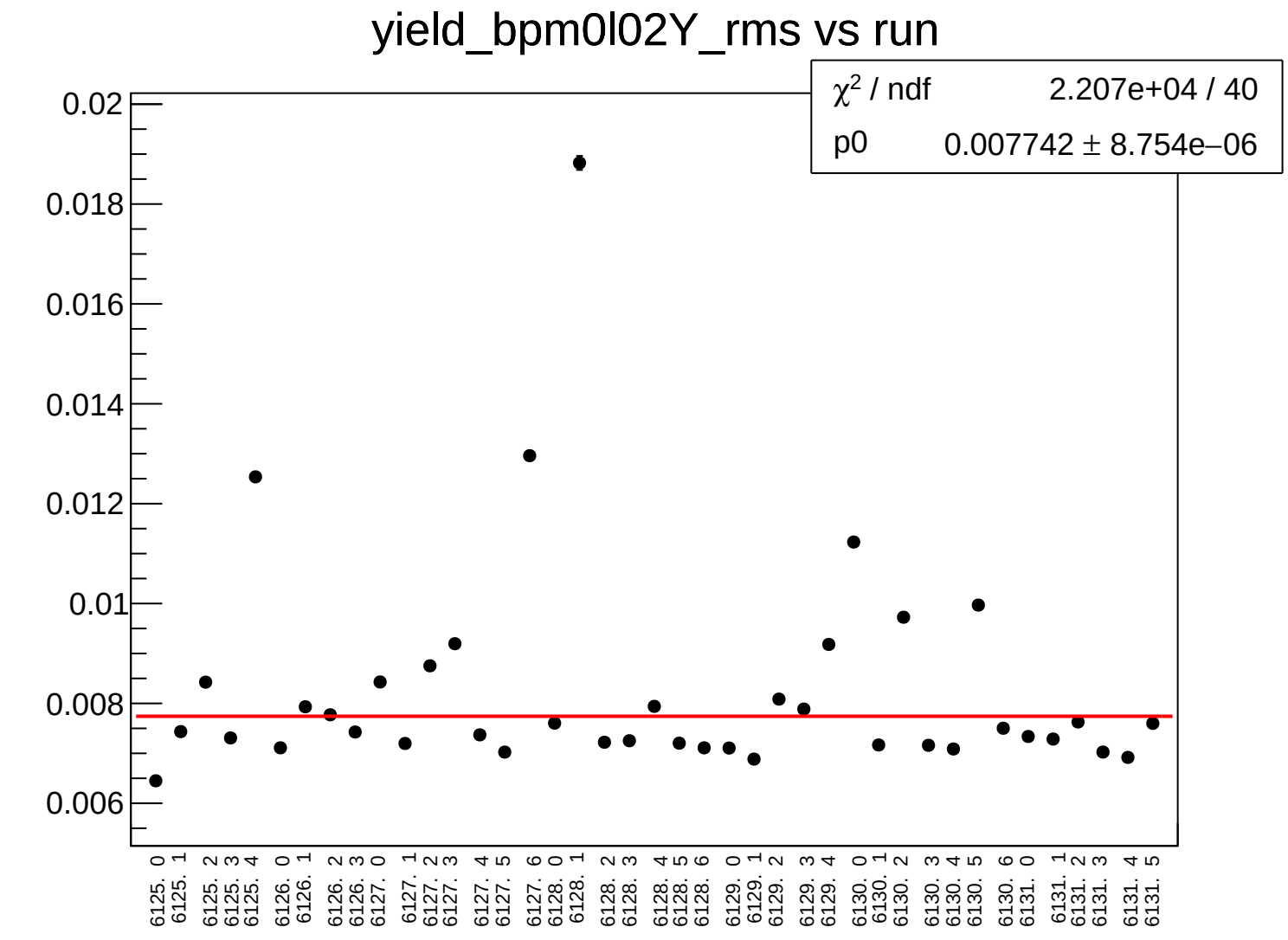

pull1D
Entries 41
Mean 2.367
Std Dev 5.156
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

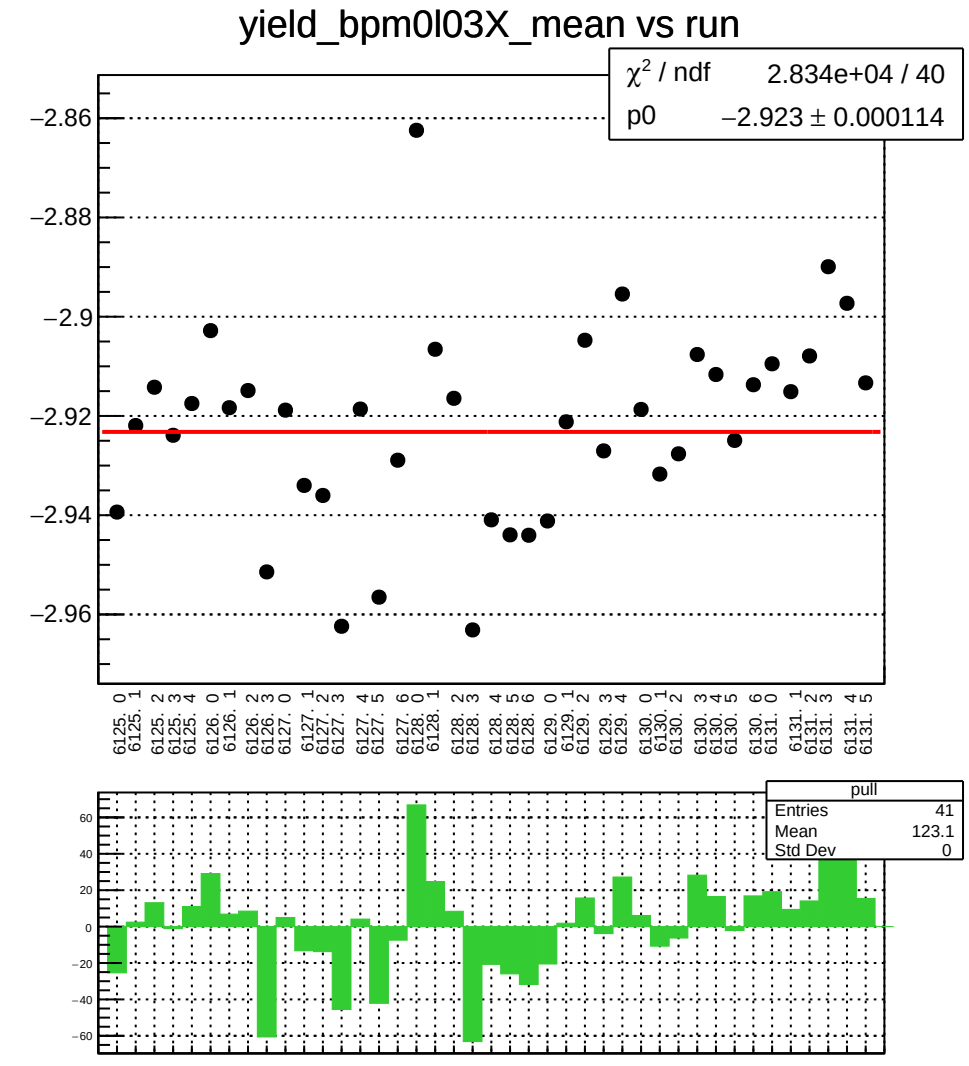

yield_bpm0l01Y_rms vs run
χ² / ndf 2.726e+04 / 40
p0 0.004681 ± 5.311e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

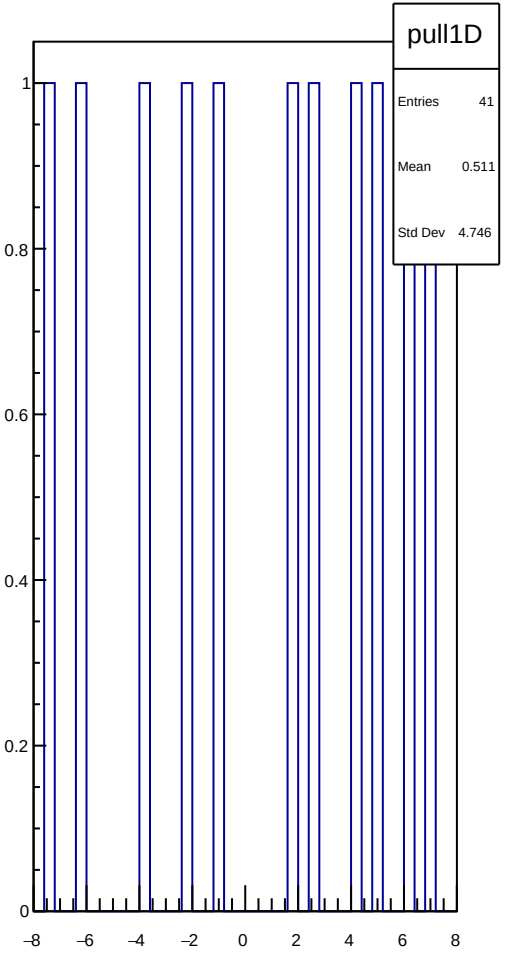

yield_bpm0l02X_mean vs run
χ² / ndf 2.532e+05 / 40
p0 0.2192 ± 1.838e−05
0.24
0.235
0.23
0.225
0.22
0.215
0.21
0.205
0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1737
Std Dev 0
150
100
50
0
−50
−100
−150
pull1D
Entries 41
Mean −5.266
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

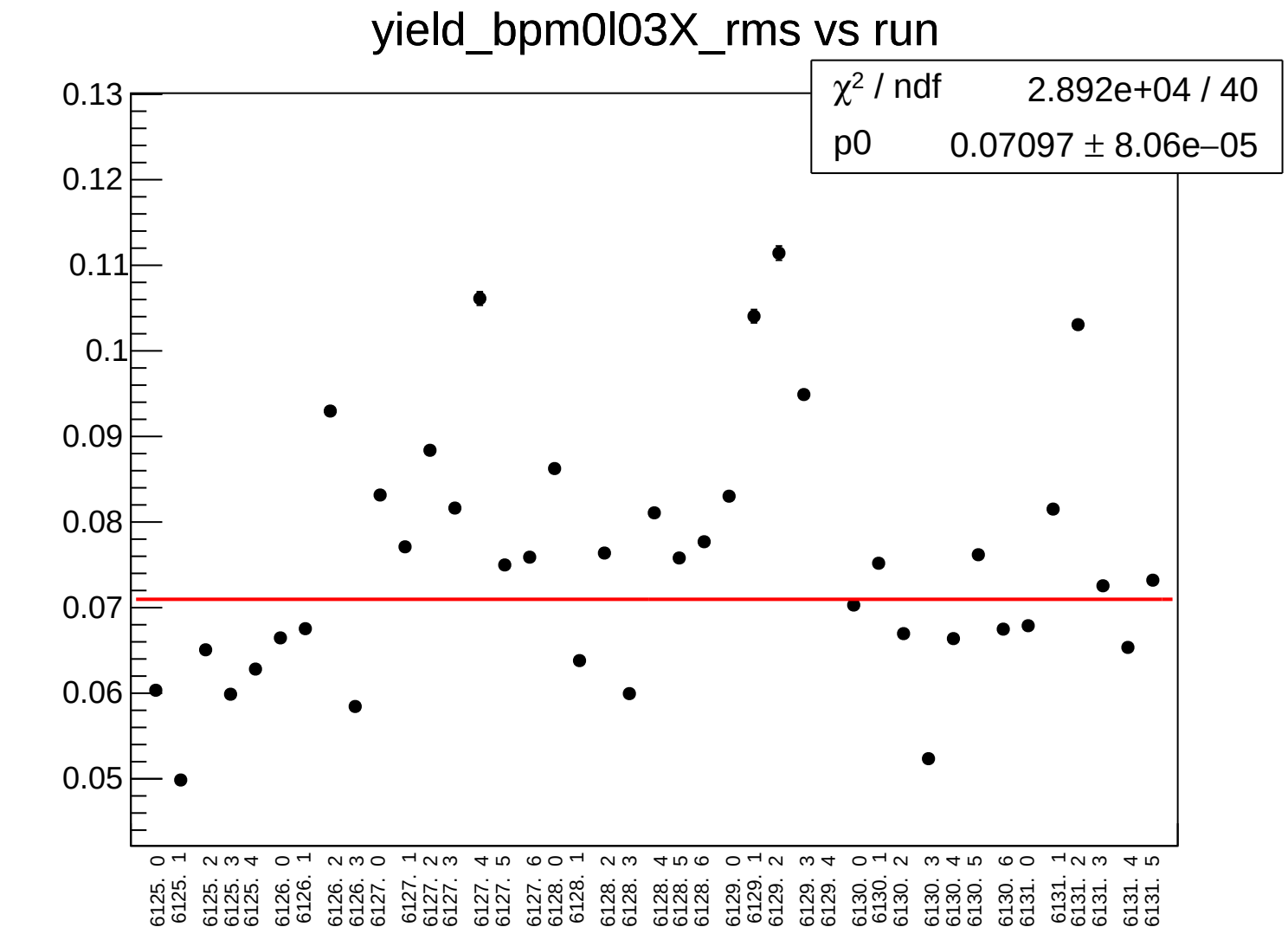

yield_bpm0l02X_rms vs run
χ² / ndf 6737 / 40
p0 0.0116 ± 1.299e−05
0.018
0.016
0.014
0.012
0.01
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

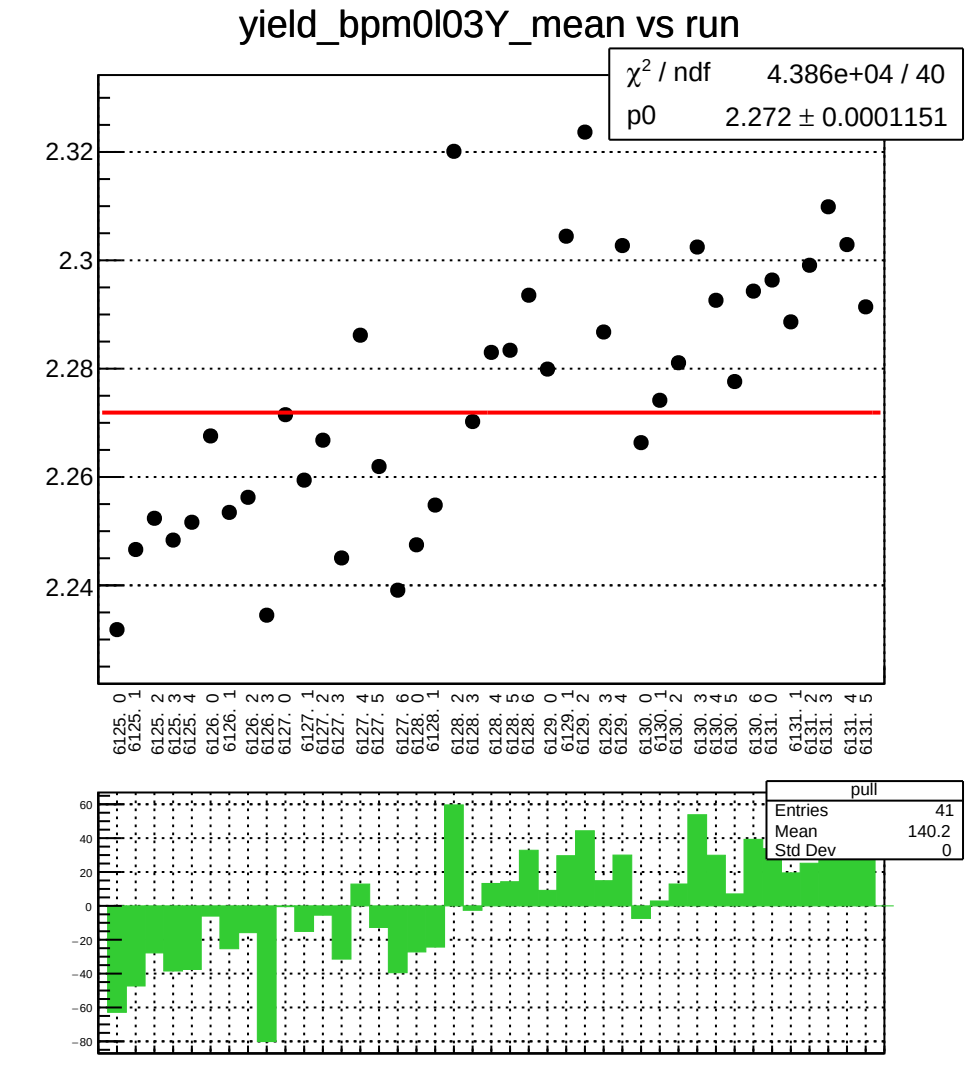

yield_bpm0l02Y_mean vs run
χ² / ndf 9.98e+05 / 40
p0 0.8151 ± 1.238e−05
0.83
0.82
0.81
0.8
0.79
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −200.7
Std Dev 0
300
200
100
0
−100
−200
−300
pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

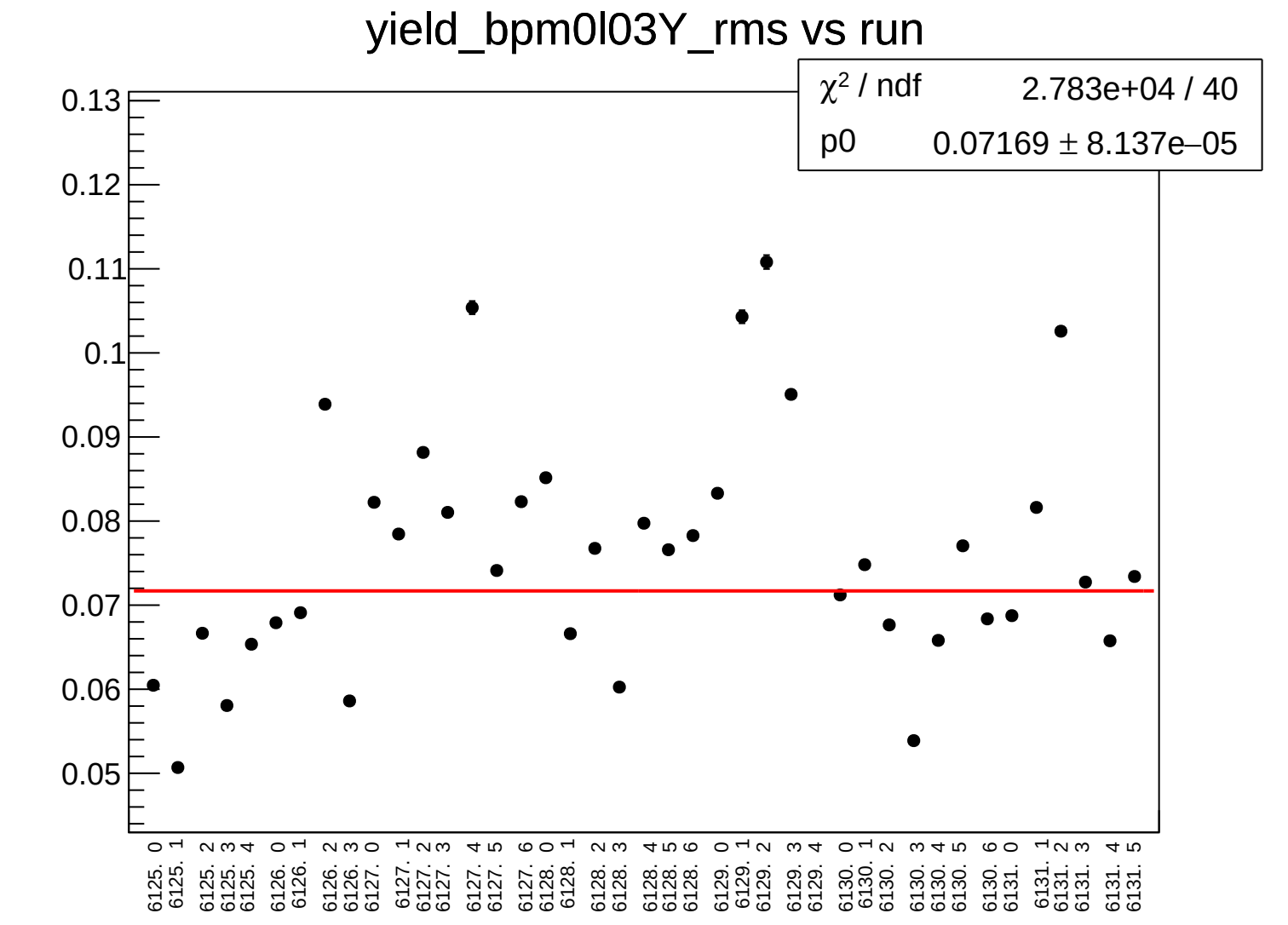

yield_bpm0l02Y_rms vs run
χ² / ndf 2.207e+04 / 40
p0 0.007742 ± 8.754e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

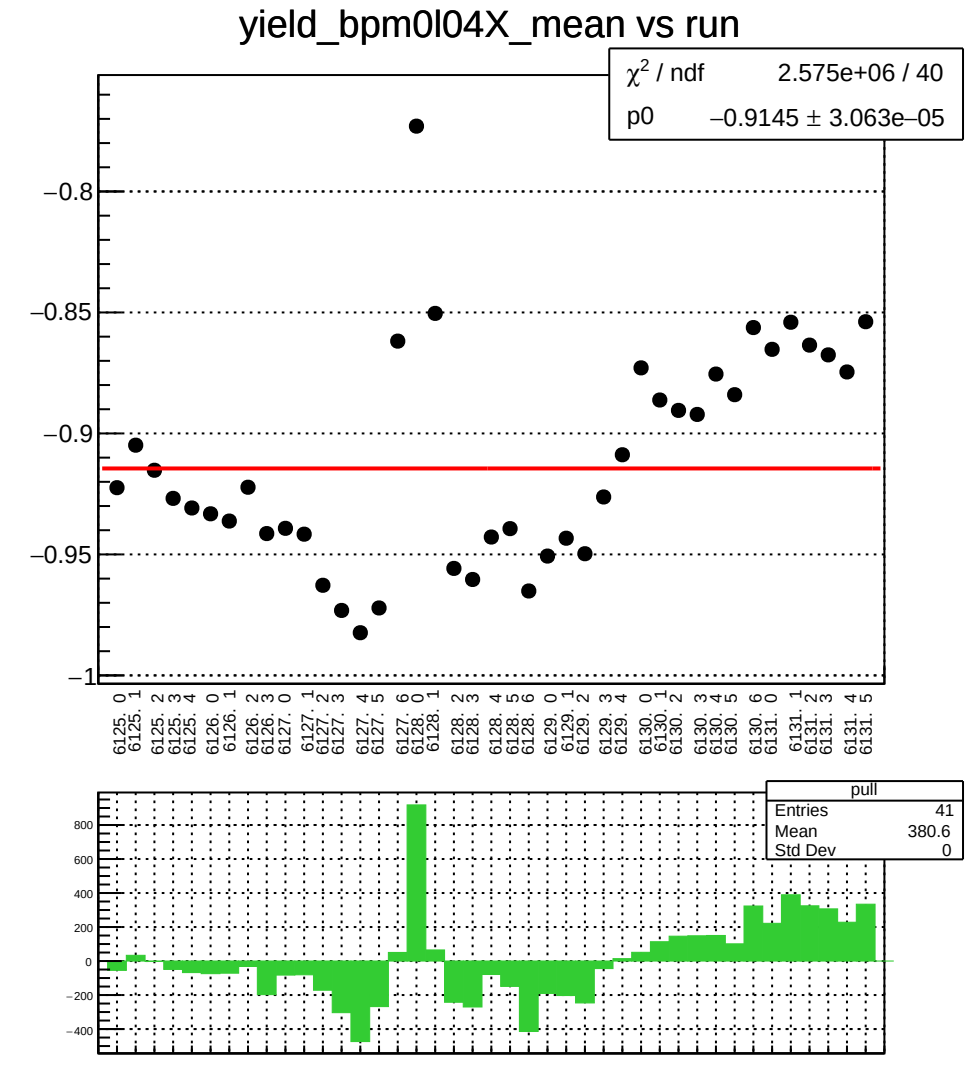

yield_bpm0l03X_mean vs run
χ² / ndf 2.834e+04 / 40
p0 −2.923 ± 0.000114
−2.86
−2.88
−2.9
−2.92
−2.94
−2.96
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 123.1
Std Dev 0
60
40
20
0
−20
−40
−60

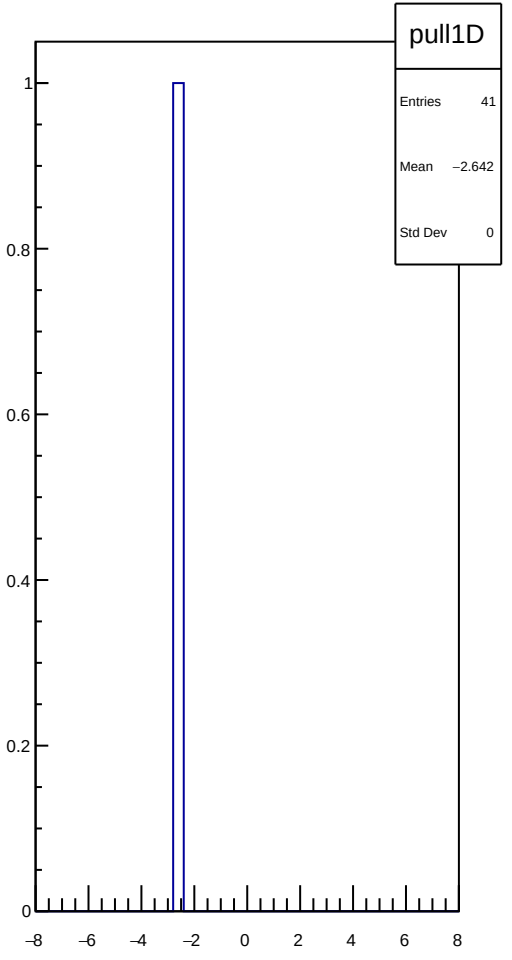

pull1D
Entries 41
Mean 0.511
Std Dev 4.746
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

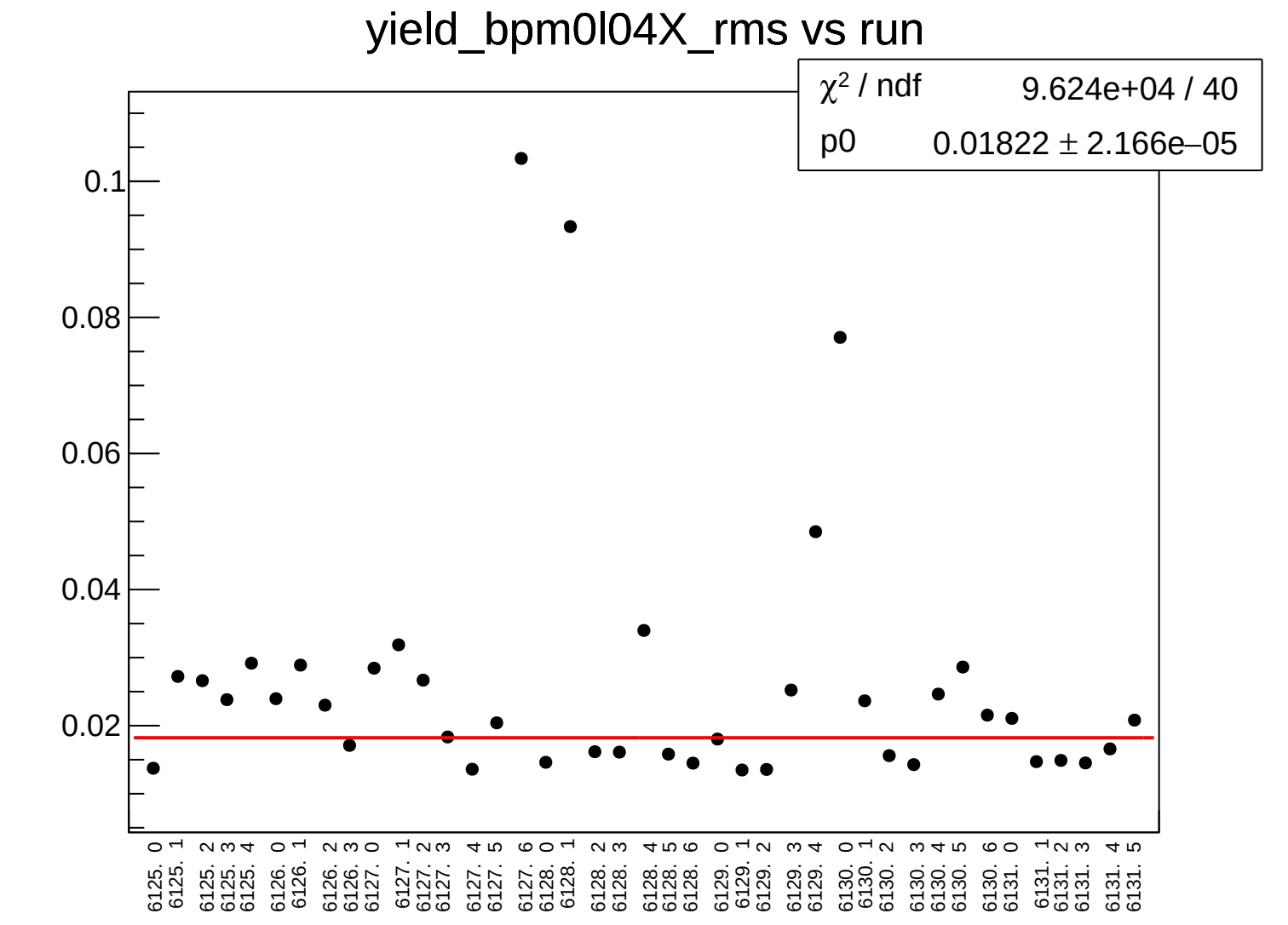

yield_bpm0l03X_rms vs run
χ² / ndf 2.892e+04 / 40
p0 0.07097 ± 8.06e−05
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

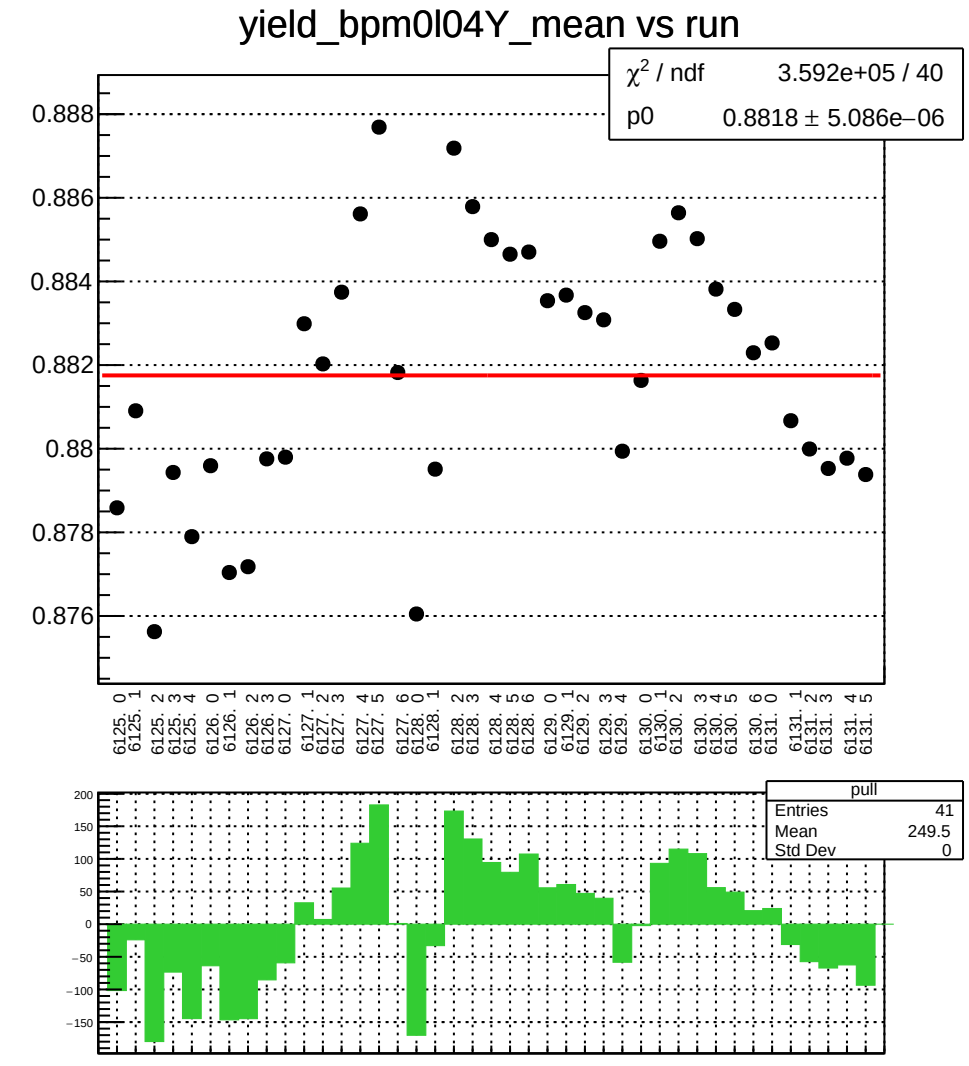

yield_bpm0l03Y_mean vs run
χ² / ndf 4.386e+04 / 40
p0 2.272 ± 0.0001151
2.32
2.3
2.28
2.26
2.24
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 140.2
Std Dev 0
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 41
Mean −1.715
Std Dev 4.861
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

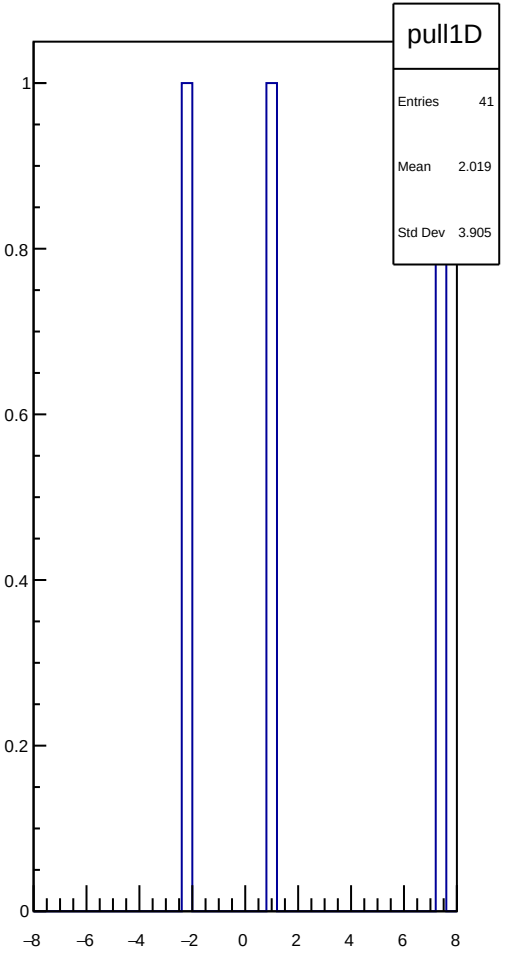

yield_bpm0l03Y_rms vs run
χ² / ndf 2.783e+04 / 40
p0 0.07169 ± 8.137e–05
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

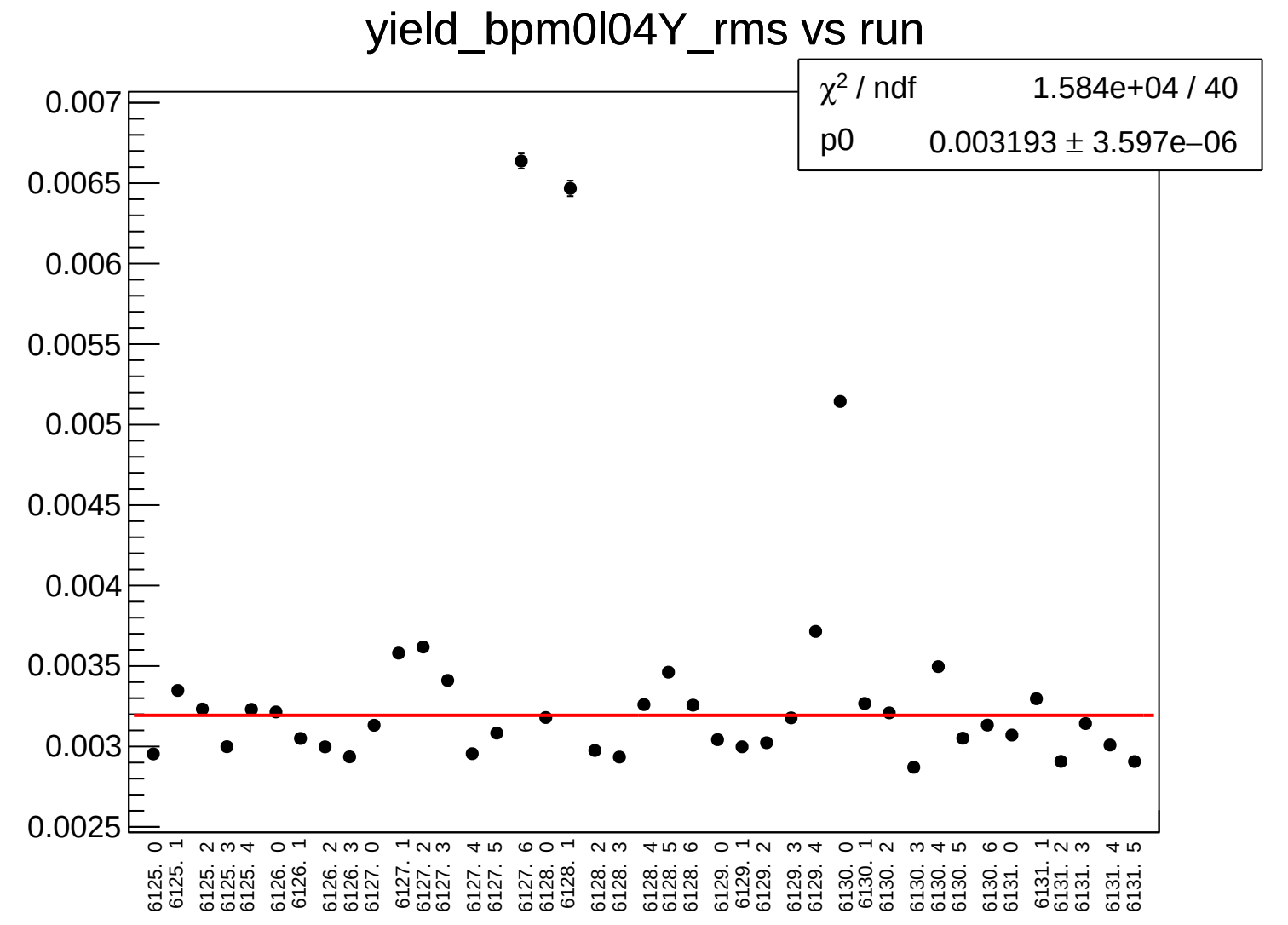

yield_bpm0l04X_mean vs run
χ² / ndf 2.575e+06 / 40
p0 −0.9145 ± 3.063e−05
−0.8
−0.85
−0.9
−0.95
−1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 380.6
Std Dev 0
800
600
400
200
0
−200
−400

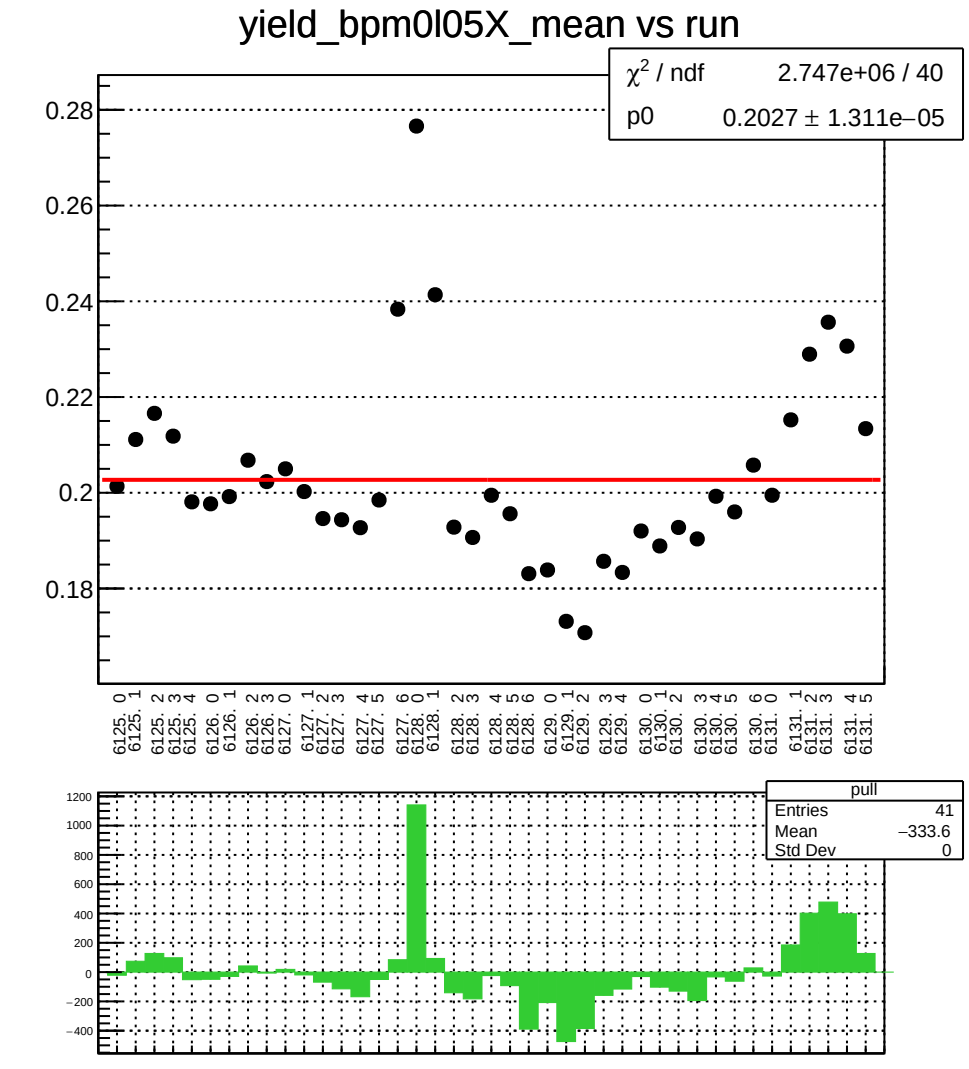

pull1D
Entries 41
Mean −2.642
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

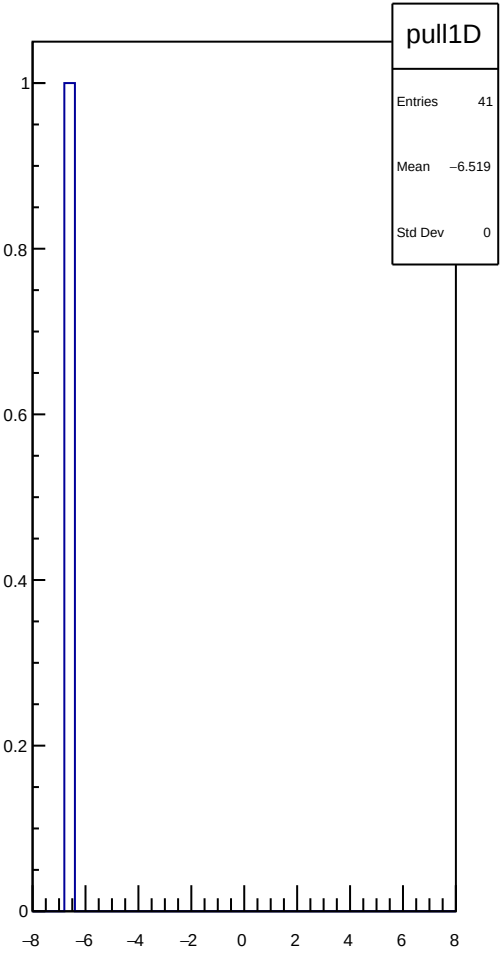

yield_bpm0l04X_rms vs run
χ² / ndf 9.624e+04 / 40
p0 0.01822 ± 2.166e−05
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

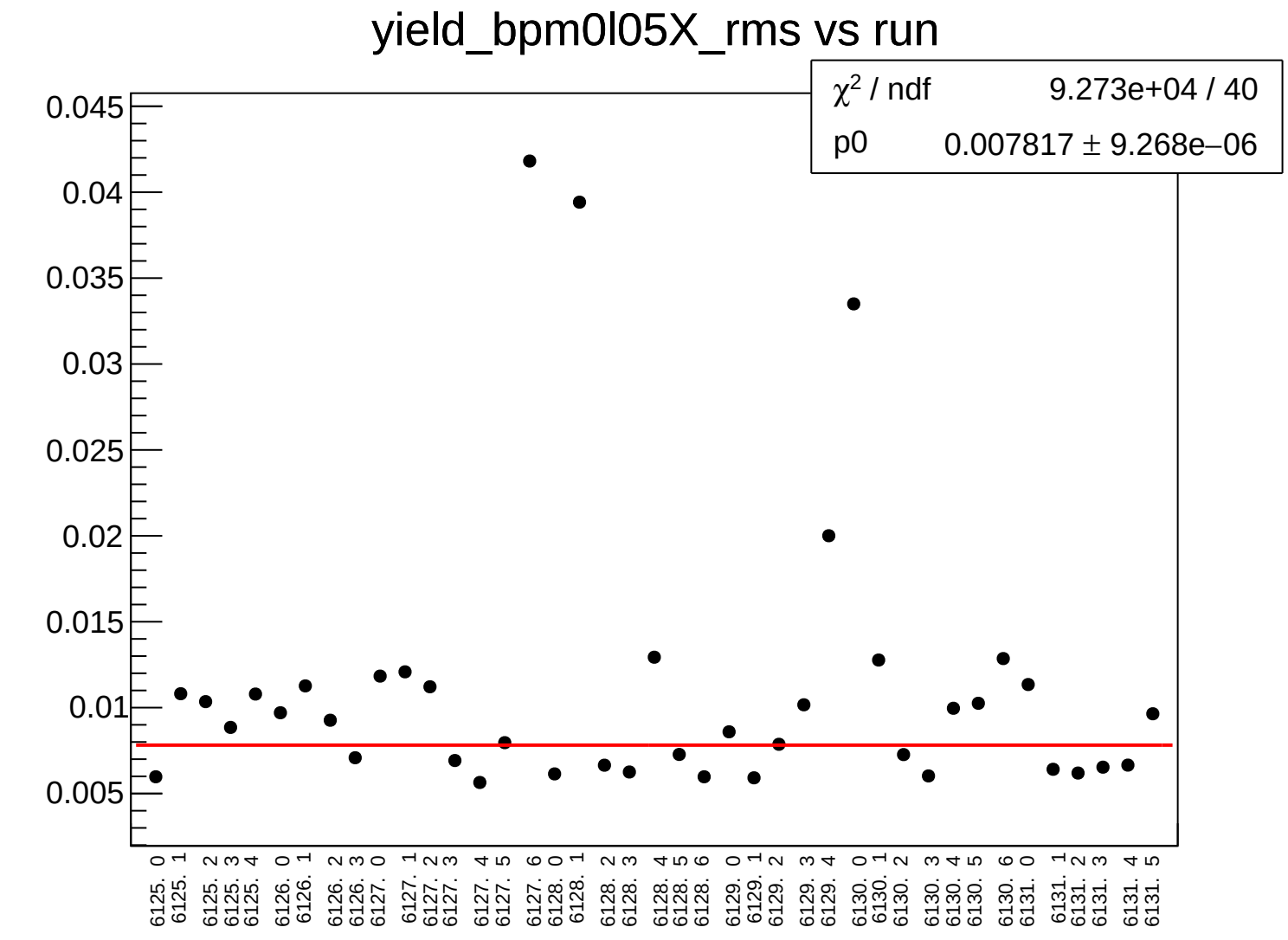

yield_bpm0l04Y_mean vs run
χ² / ndf 3.592e+05 / 40
p0 0.8818 ± 5.086e−06
0.888
0.886
0.884
0.882
0.88
0.878
0.876
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 249.5
Std Dev 0
200
150
100
50
0
−50
−100
−150

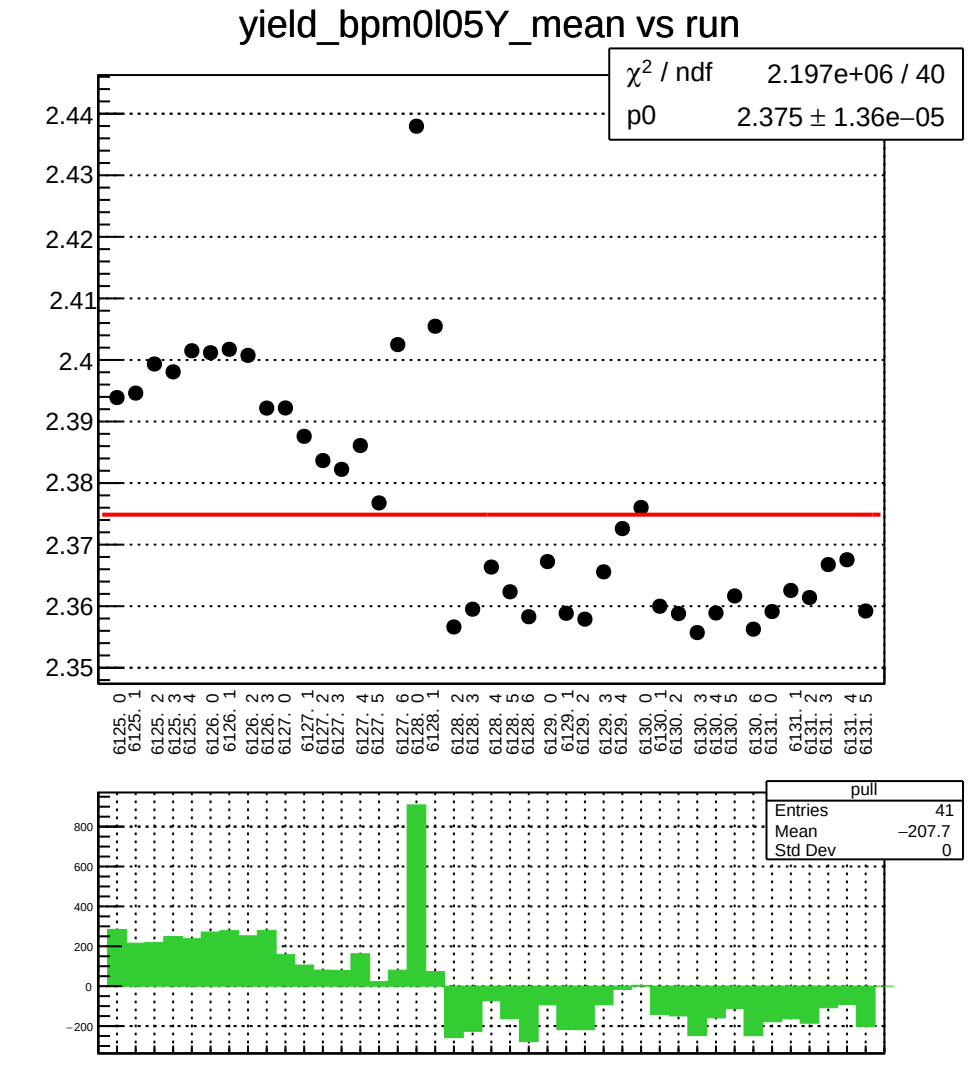

pull1D
Entries 41
Mean 2.019
Std Dev 3.905
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

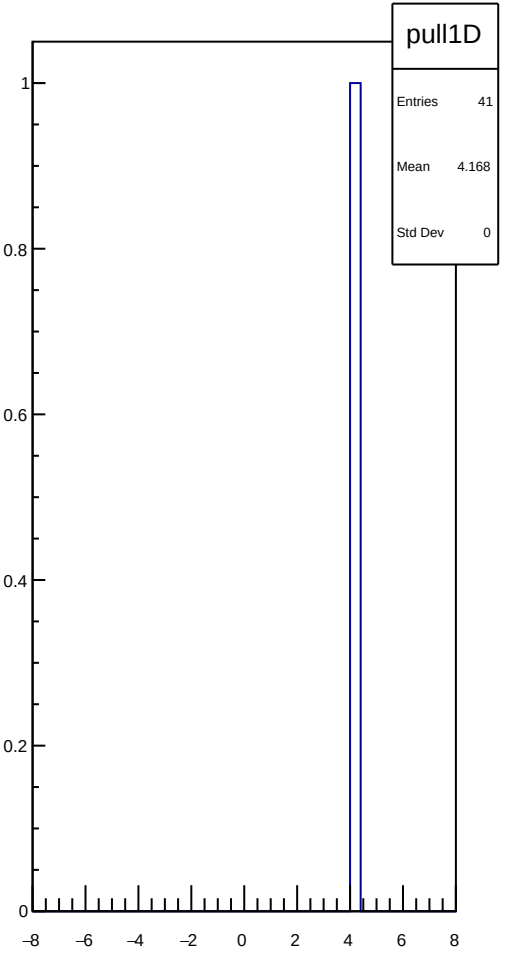

yield_bpm0l04Y_rms vs run
χ² / ndf 1.584e+04 / 40
p0 0.003193 ± 3.597e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

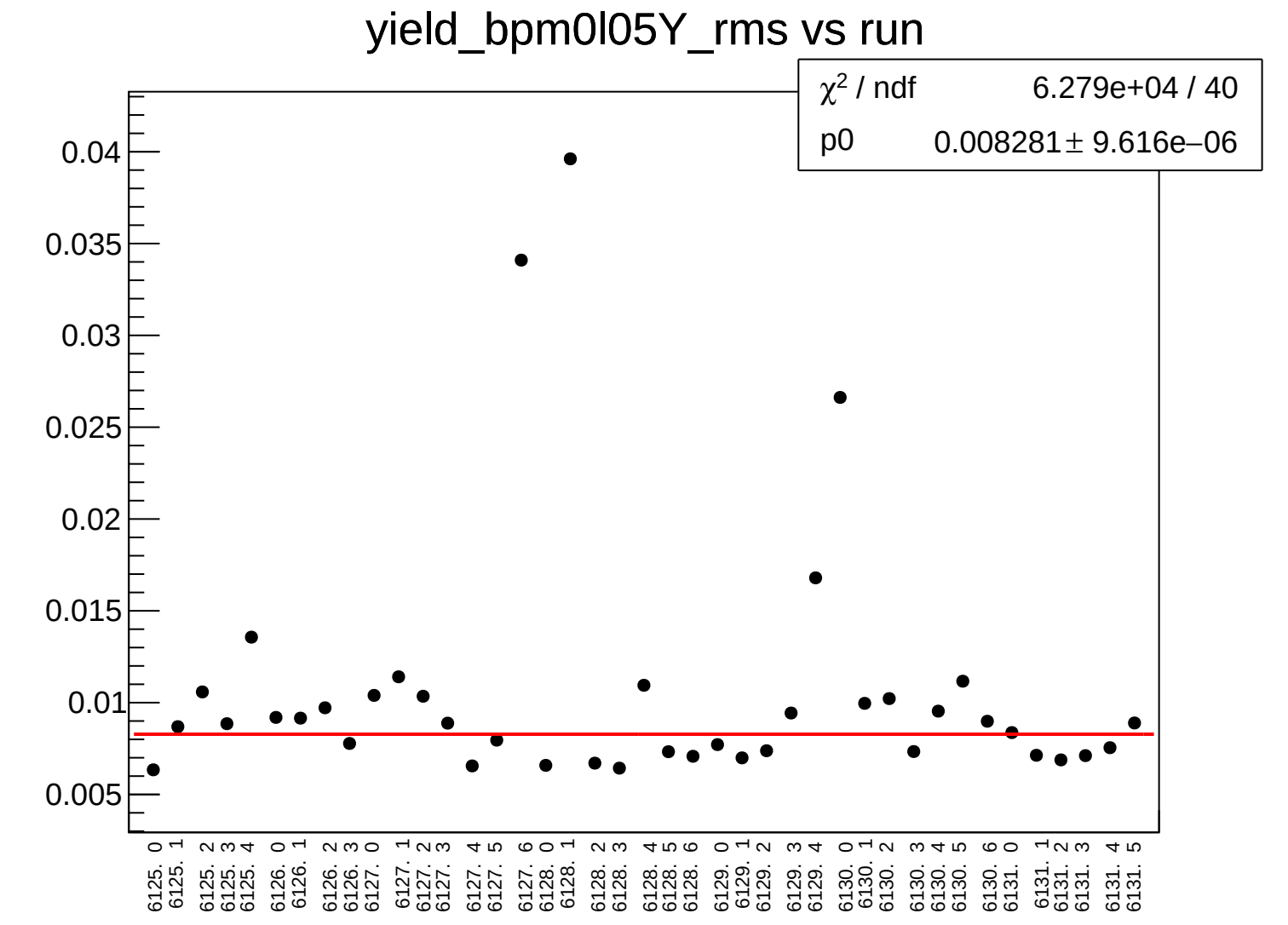

yield_bpm0l05X_mean vs run
χ² / ndf 2.747e+06 / 40
p0 0.2027 ± 1.311e−05
0.28
0.26
0.24
0.22
0.2
0.18
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −333.6
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400

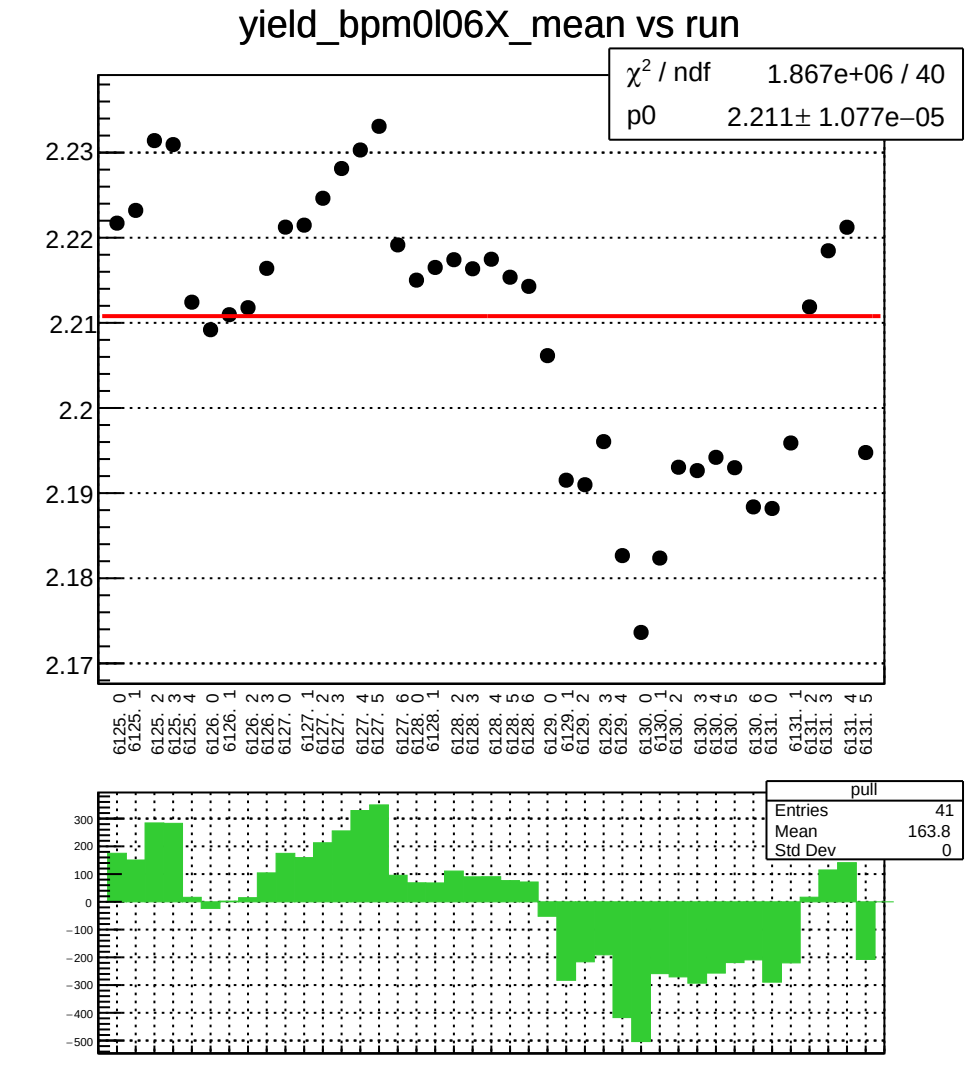

pull1D
Entries 41
Mean −6.519
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

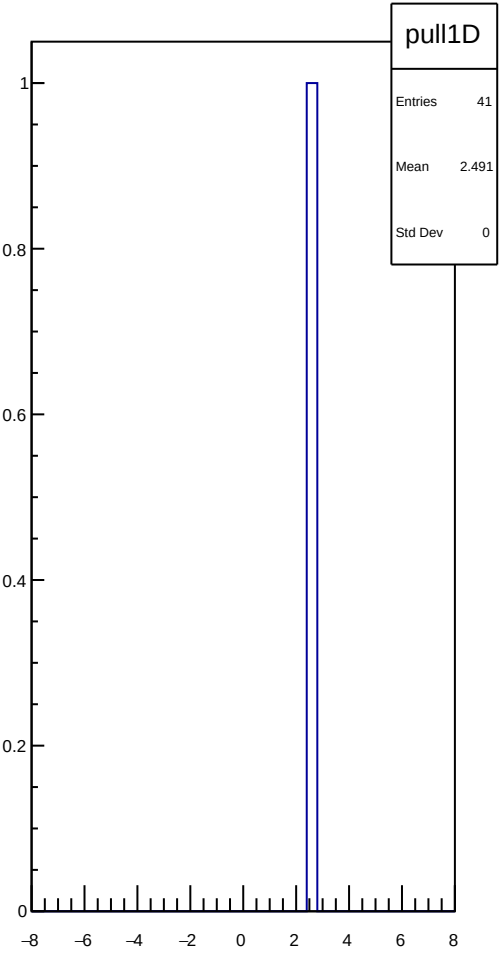

yield_bpm0l05X_rms vs run
χ² / ndf 9.273e+04 / 40
p0 0.007817 ± 9.268e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

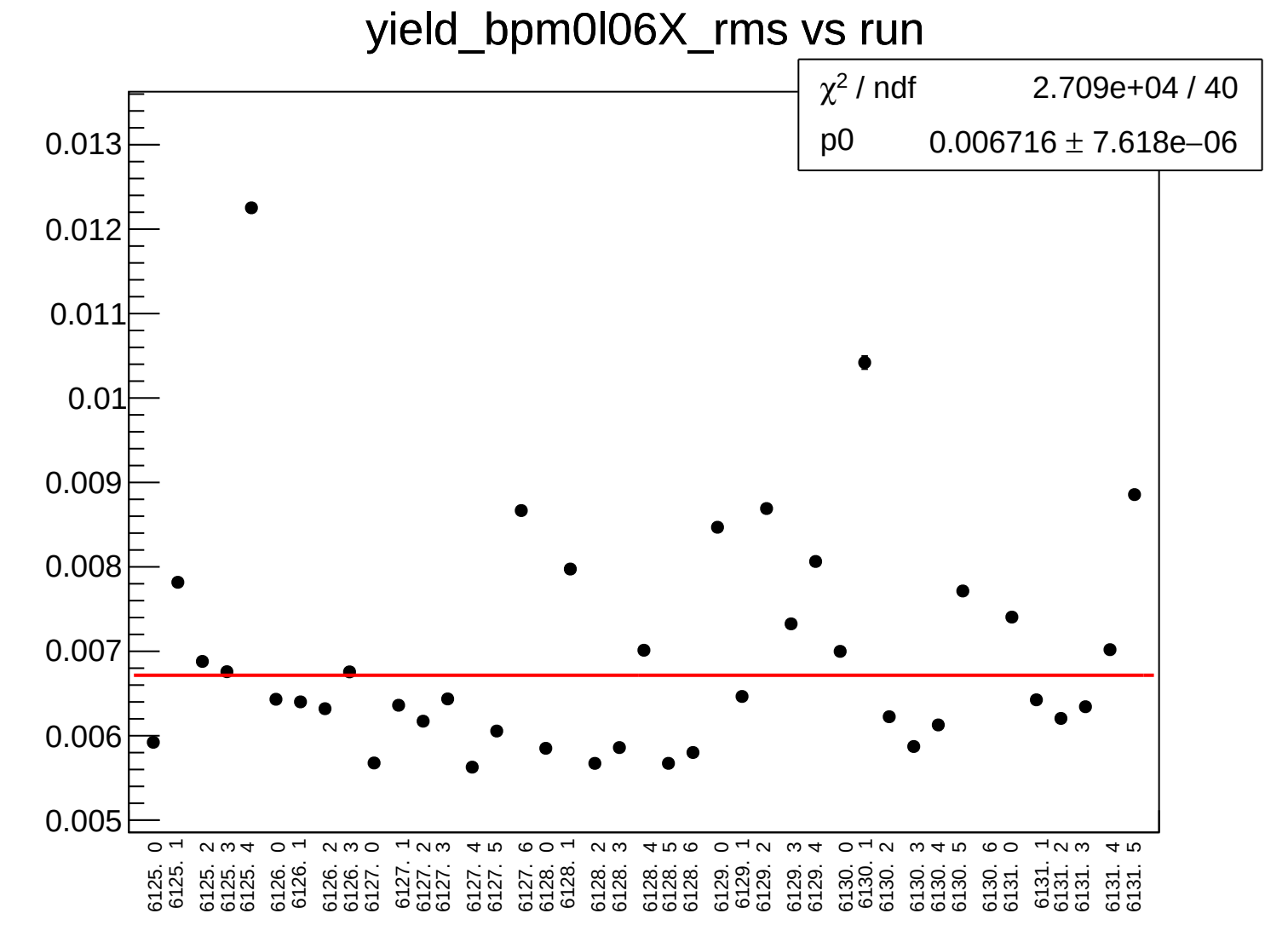

yield_bpm0l05Y_mean vs run
χ² / ndf 2.197e+06 / 40
p0 2.375 ± 1.36e−05
2.44
2.43
2.42
2.41
2.4
2.39
2.38
2.37
2.36
2.35
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −207.7
Std Dev 0
800
600
400
200
0
−200

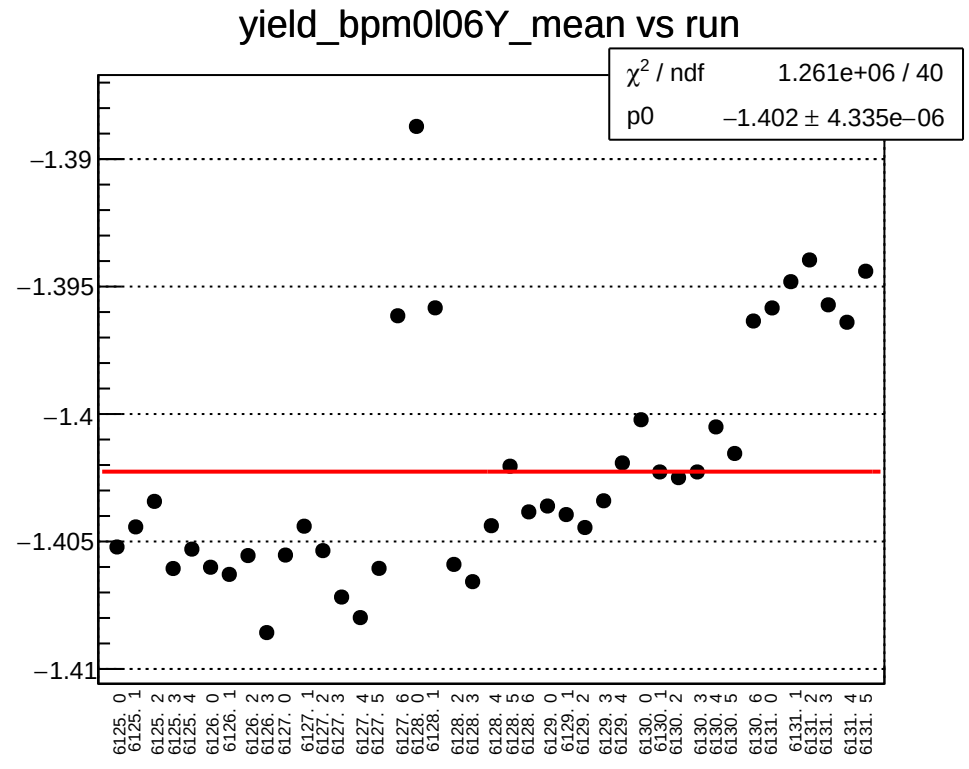

pull1D
Entries 41
Mean 4.168
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

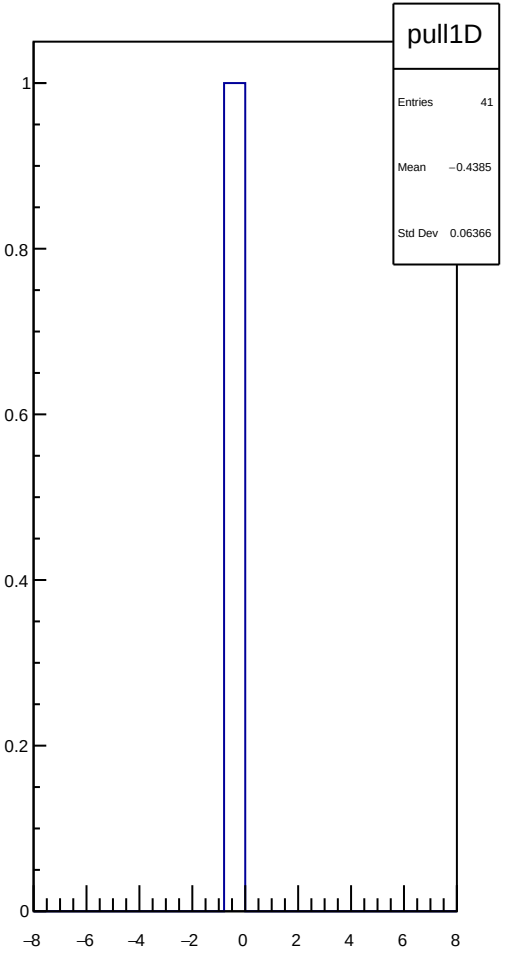

yield_bpm0l05Y_rms vs run
χ² / ndf 6.279e+04 / 40
p0 0.008281 ± 9.616e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

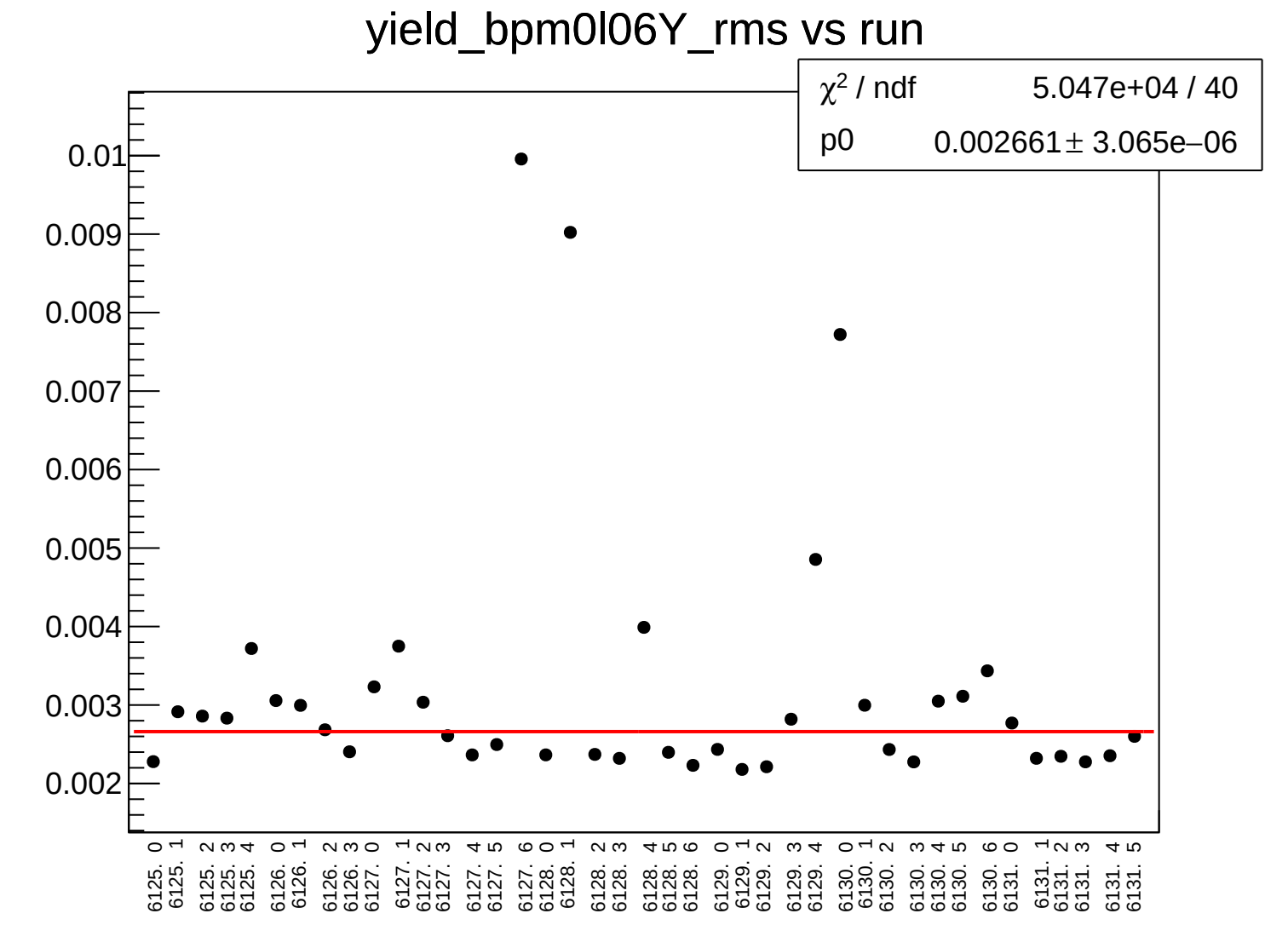

yield_bpm0l06X_mean vs run
χ² / ndf 1.867e+06 / 40
p0 2.211± 1.077e−05
2.23
2.22
2.21
2.2
2.19
2.18
2.17
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 163.8
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

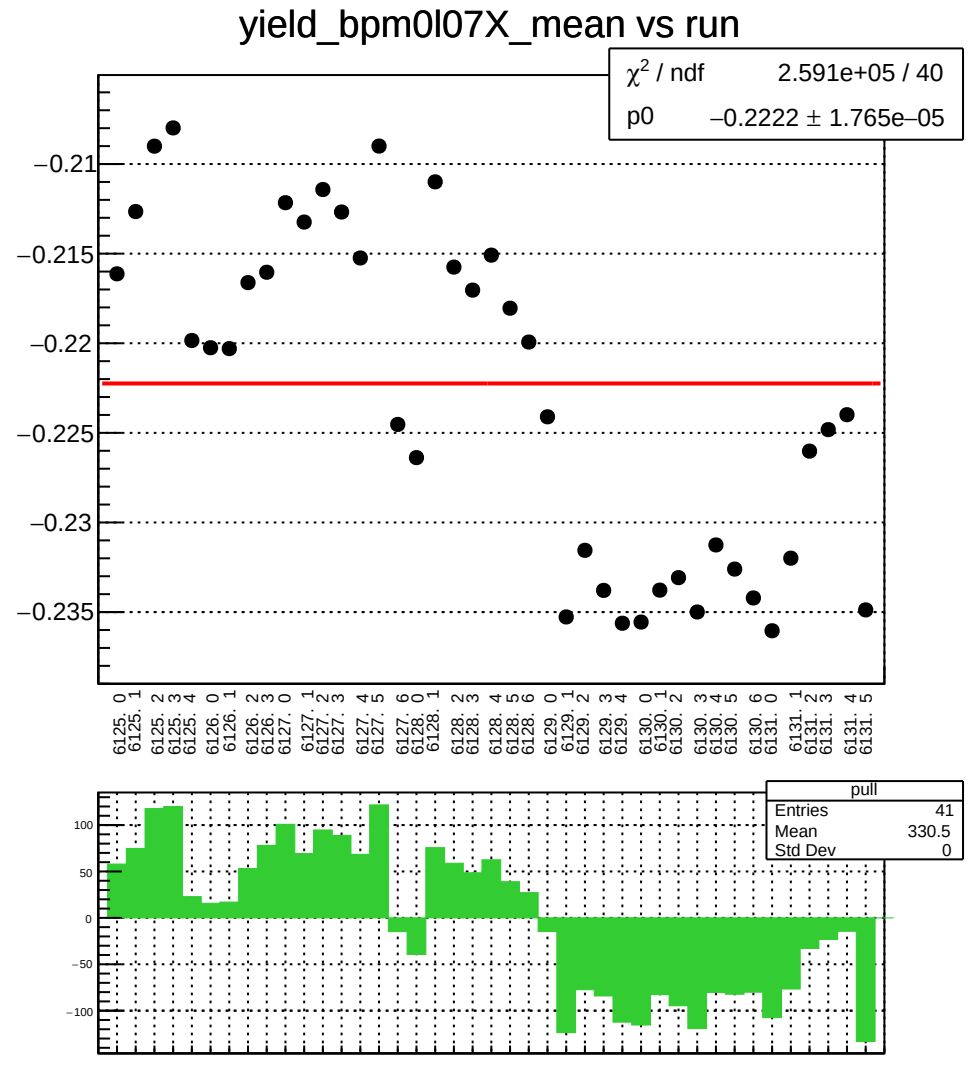

pull1D
Entries 41
Mean 2.491
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

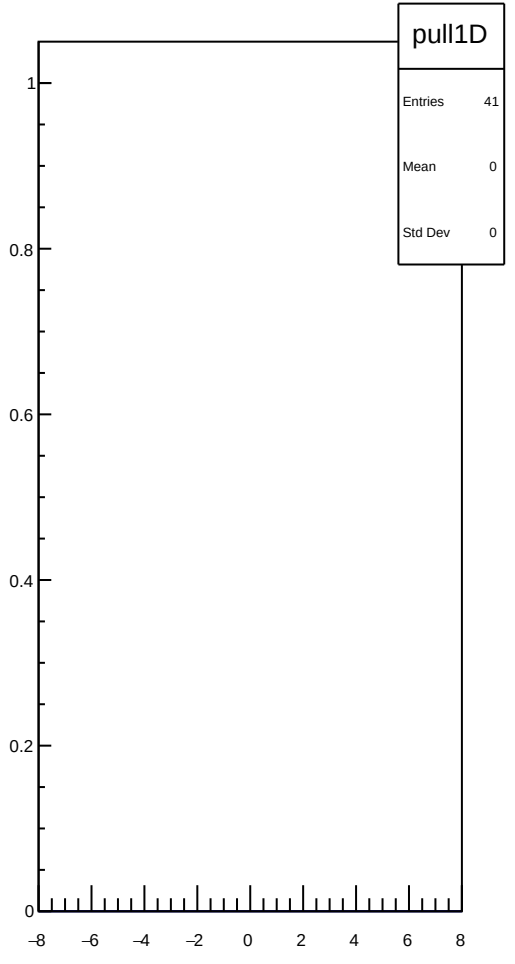

yield_bpm0l06X_rms vs run
χ² / ndf 2.709e+04 / 40
p0 0.006716 ± 7.618e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

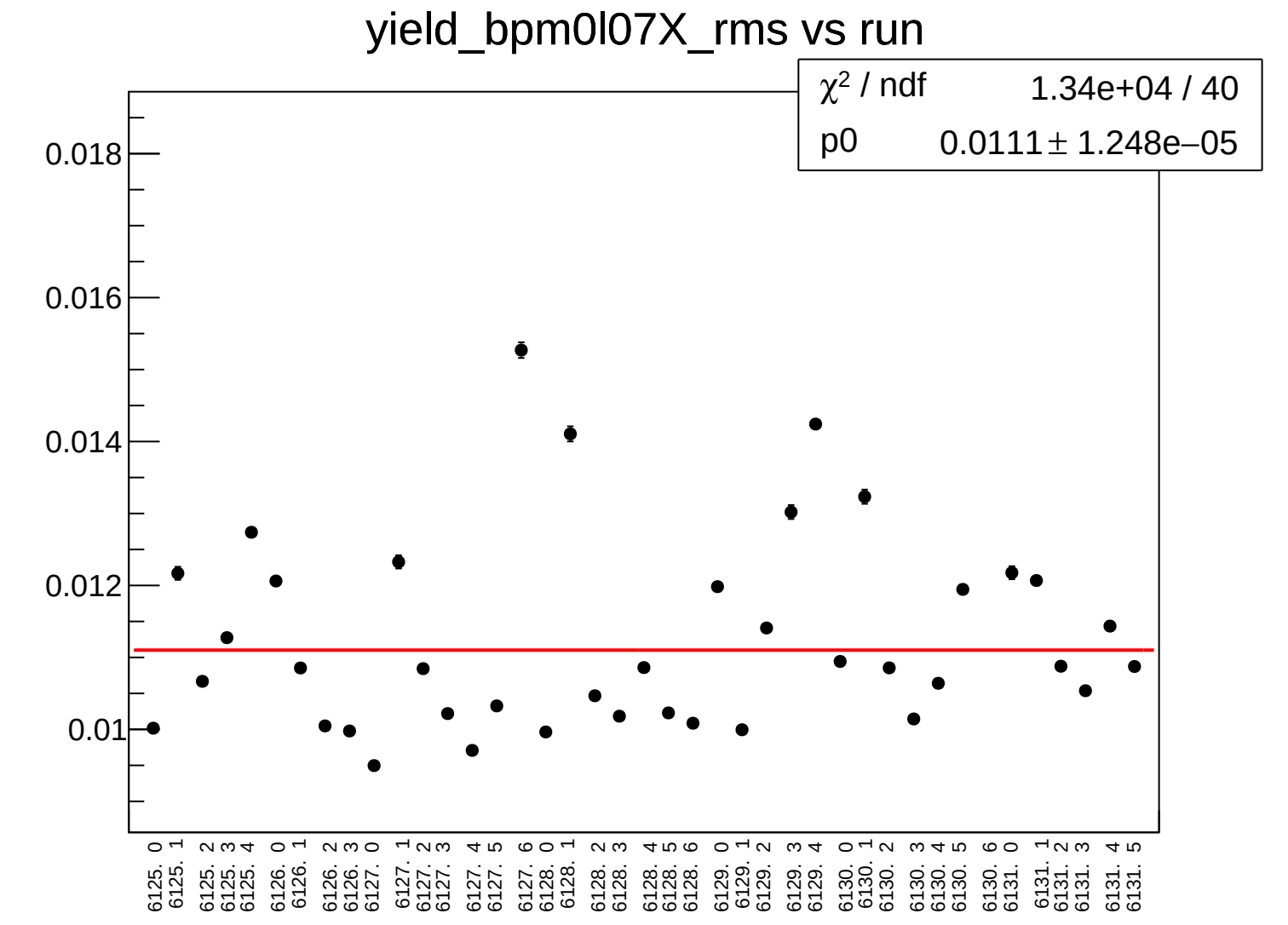

yield_bpm0l06Y_mean vs run
χ² / ndf 1.261e+06 / 40
p0 −1.402 ± 4.335e−06
−1.39
−1.395
−1.4
−1.405
−1.41
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1417
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

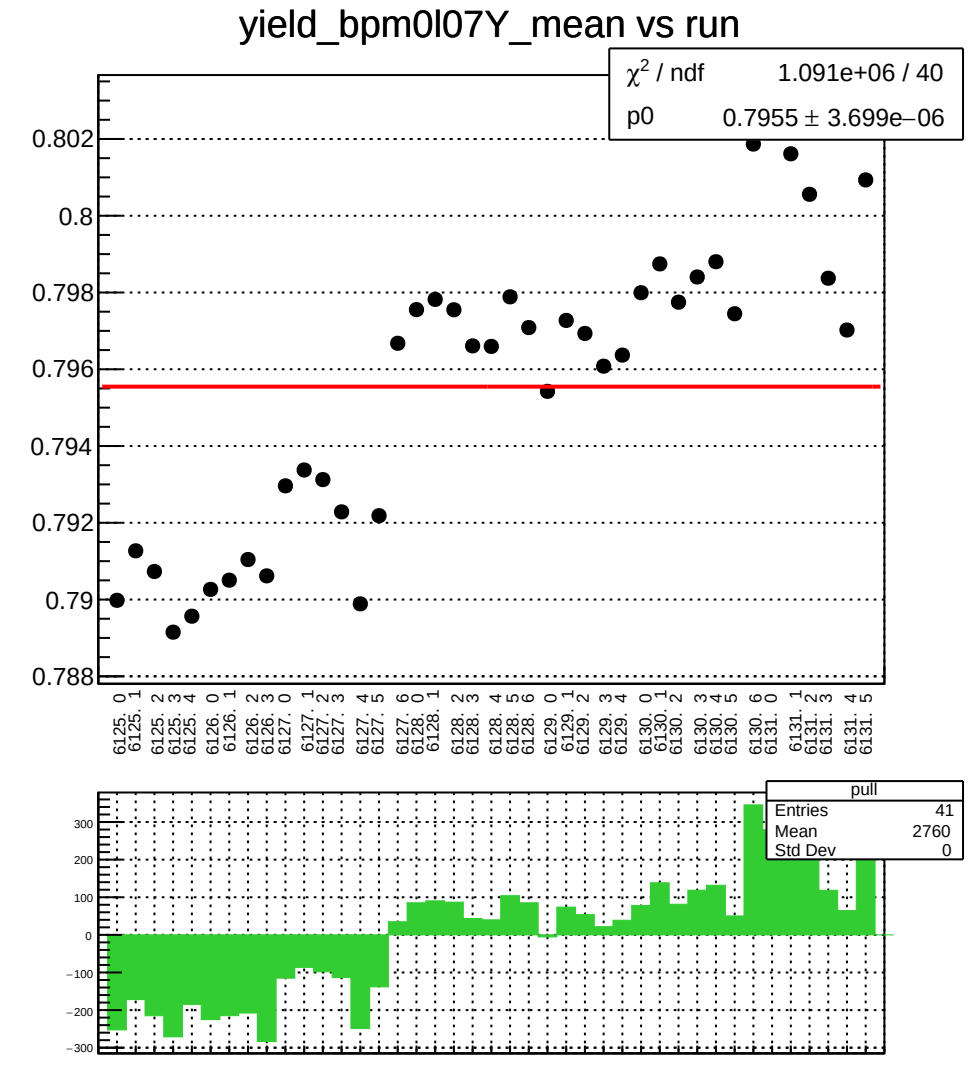

pull1D
Entries 41
Mean −0.4385
Std Dev 0.06366
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

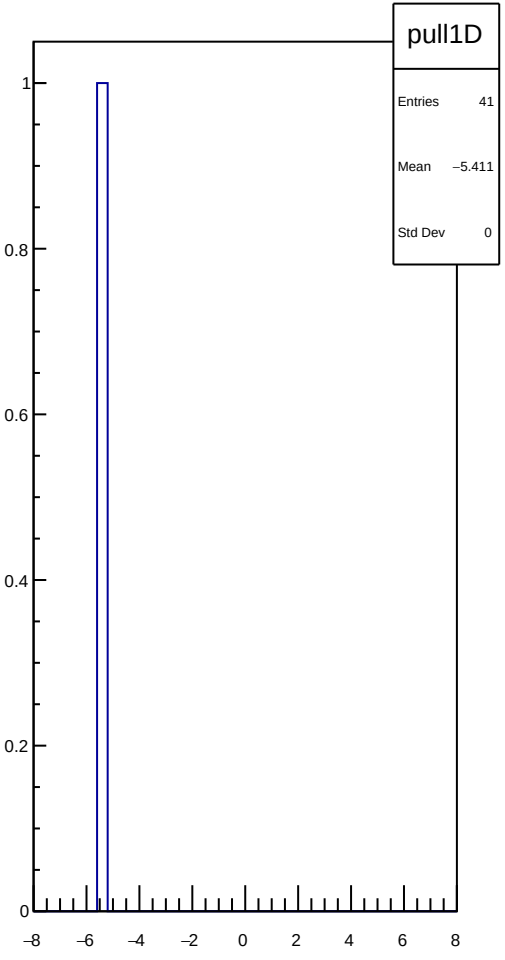

yield_bpm0l06Y_rms vs run
χ² / ndf 5.047e+04 / 40
p0 0.002661 ± 3.065e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

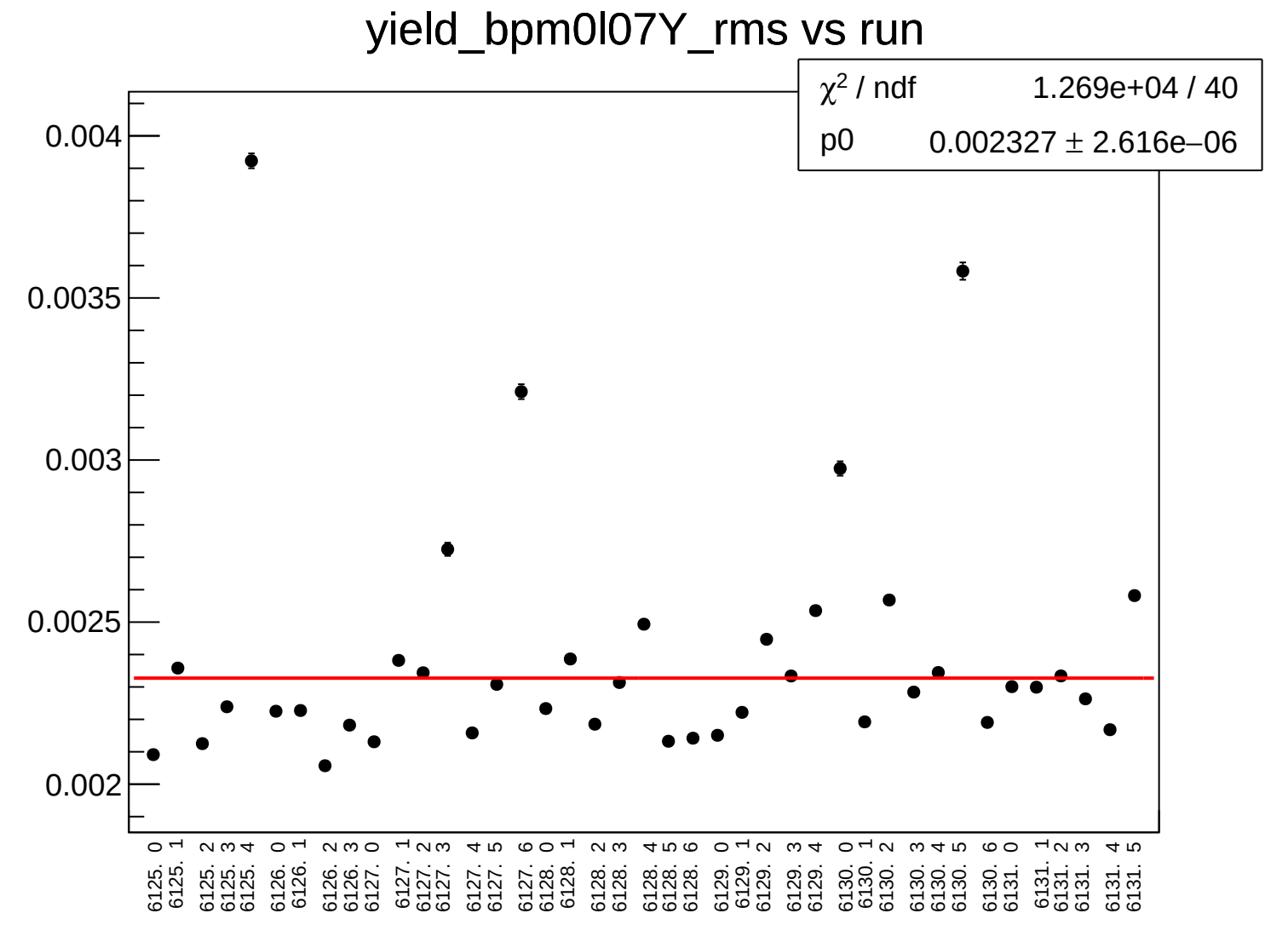

yield_bpm0l07X_mean vs run
χ² / ndf 2.591e+05 / 40
p0 −0.2222 ± 1.765e−05
−0.21
−0.215
−0.22
−0.225
−0.23
−0.235
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 330.5
Std Dev 0
100
50
0
−50
−100

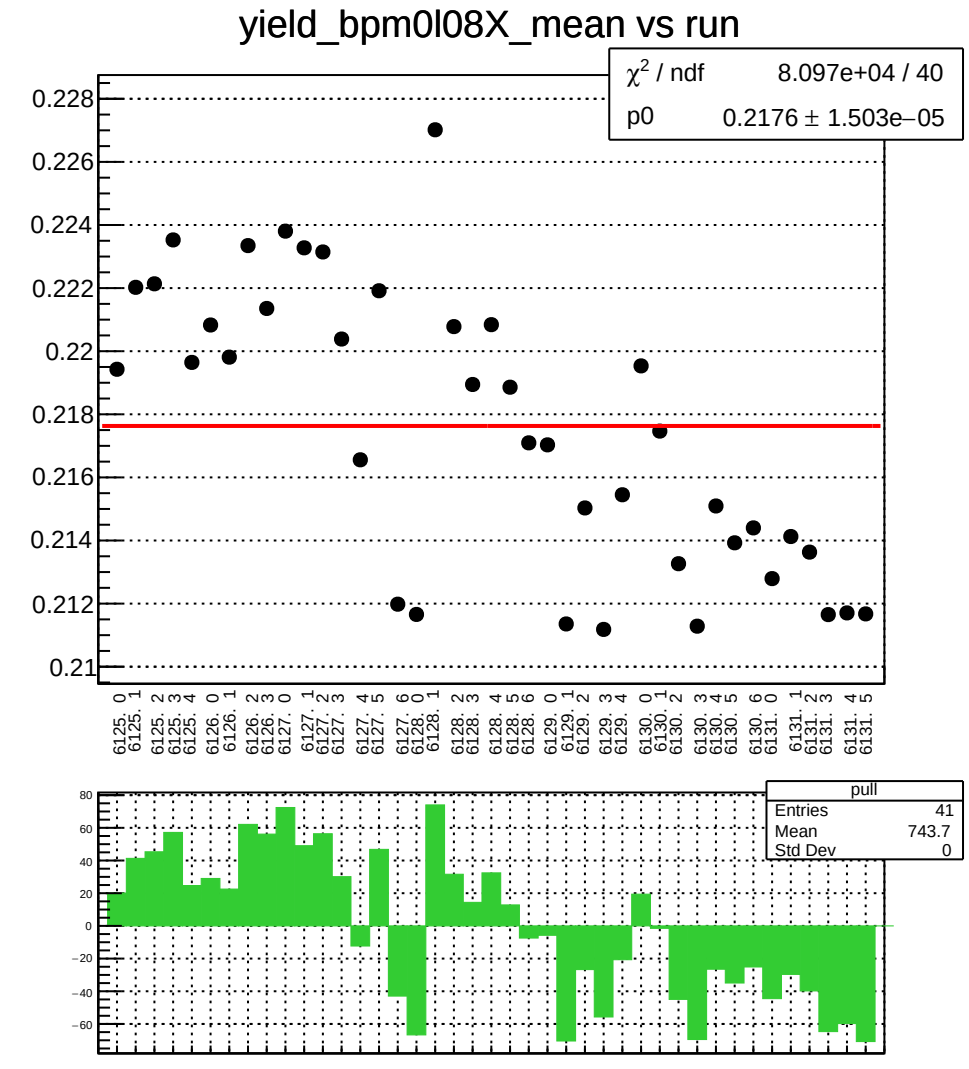

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

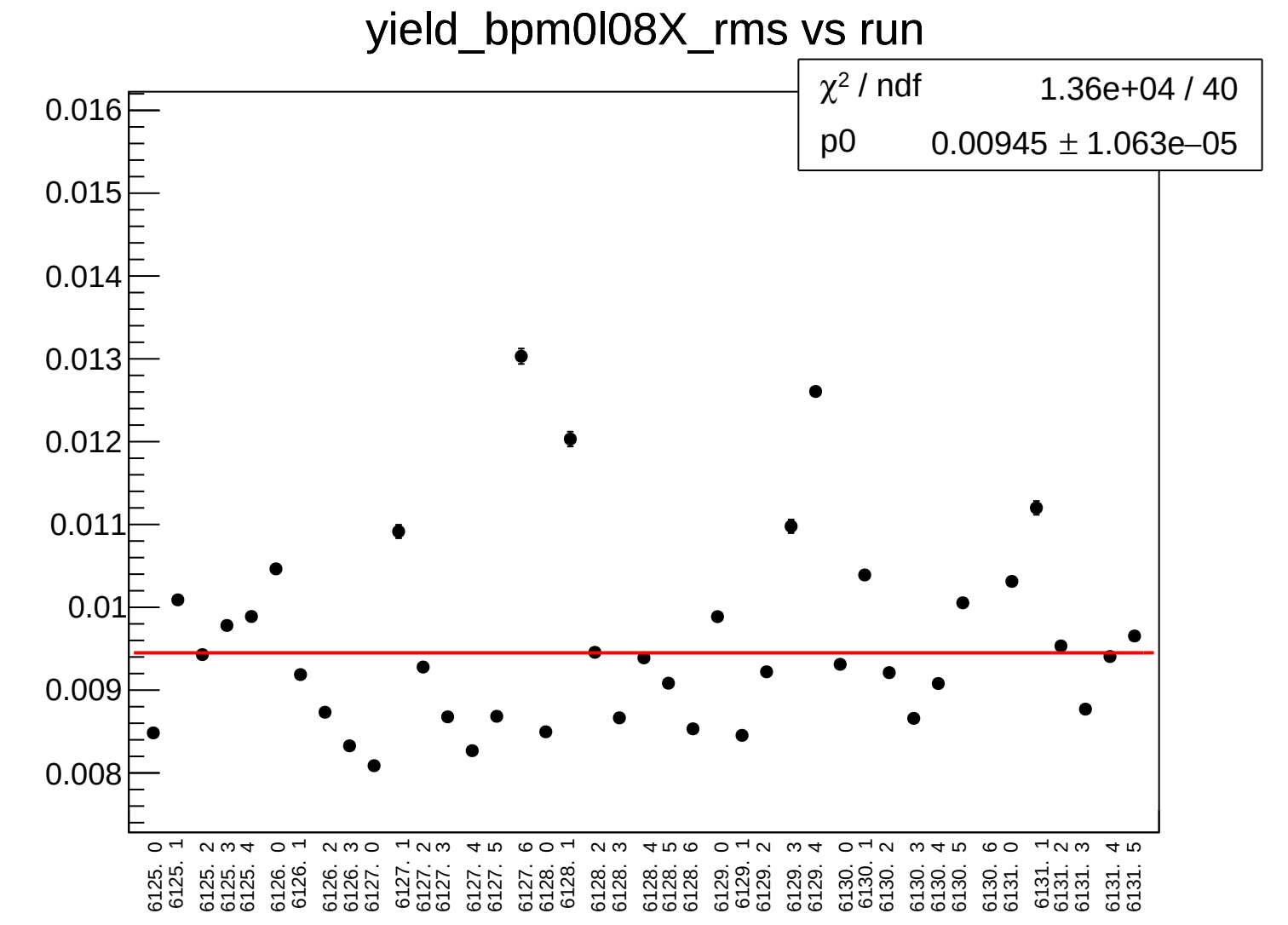

yield_bpm0l07X_rms vs run
χ² / ndf 1.34e+04 / 40
p0 0.0111 ± 1.248e−05
0.018
0.016
0.014
0.012
0.01
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

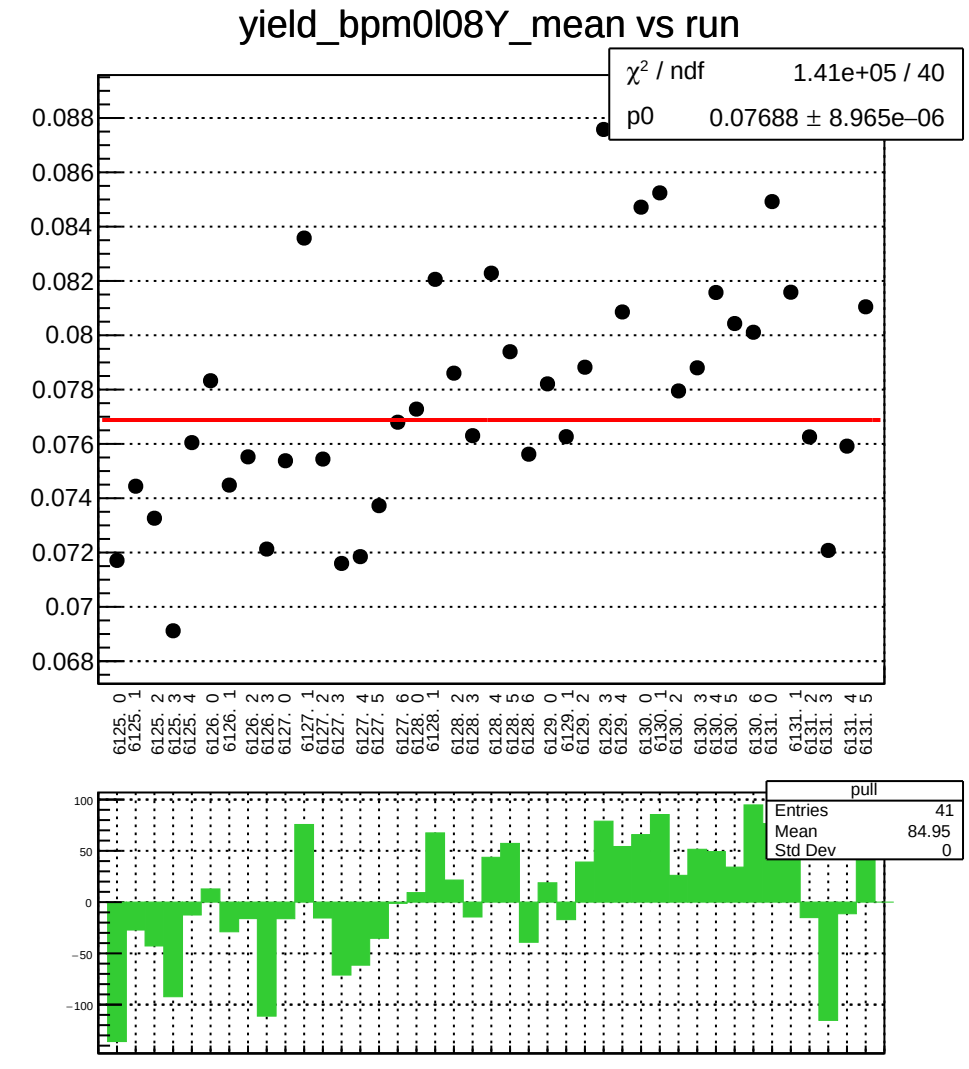

yield_bpm0l07Y_mean vs run
χ² / ndf 1.091e+06 / 40
p0 0.7955 ± 3.699e−06
0.802
0.8
0.798
0.796
0.794
0.792
0.79
0.788
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 2760
Std Dev 0
300
200
100
0
−100
−200
−300

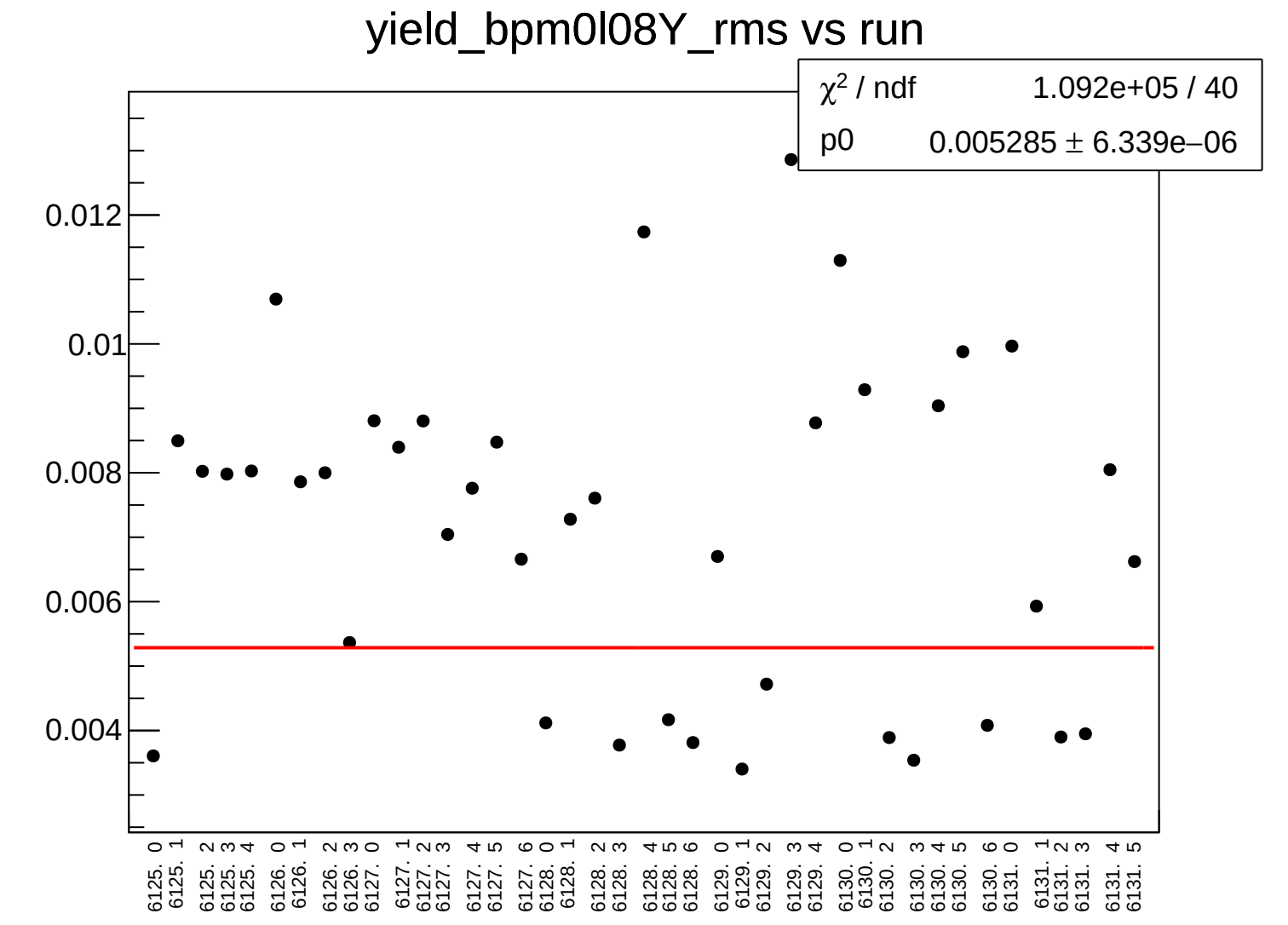

pull1D
Entries 41
Mean −5.411
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

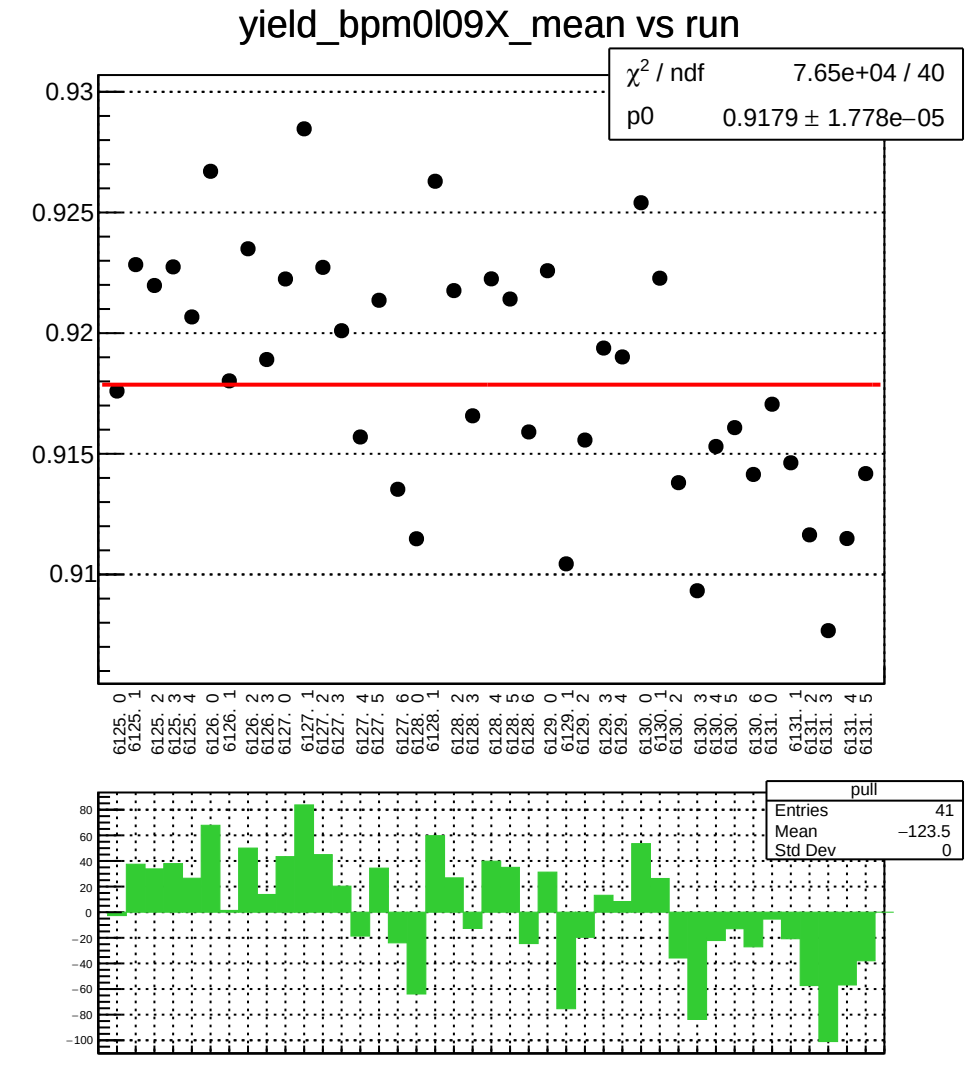

yield_bpm0l07Y_rms vs run
χ² / ndf 1.269e+04 / 40
p0 0.002327 ± 2.616e−06
0.004
0.0035
0.003
0.0025
0.002
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

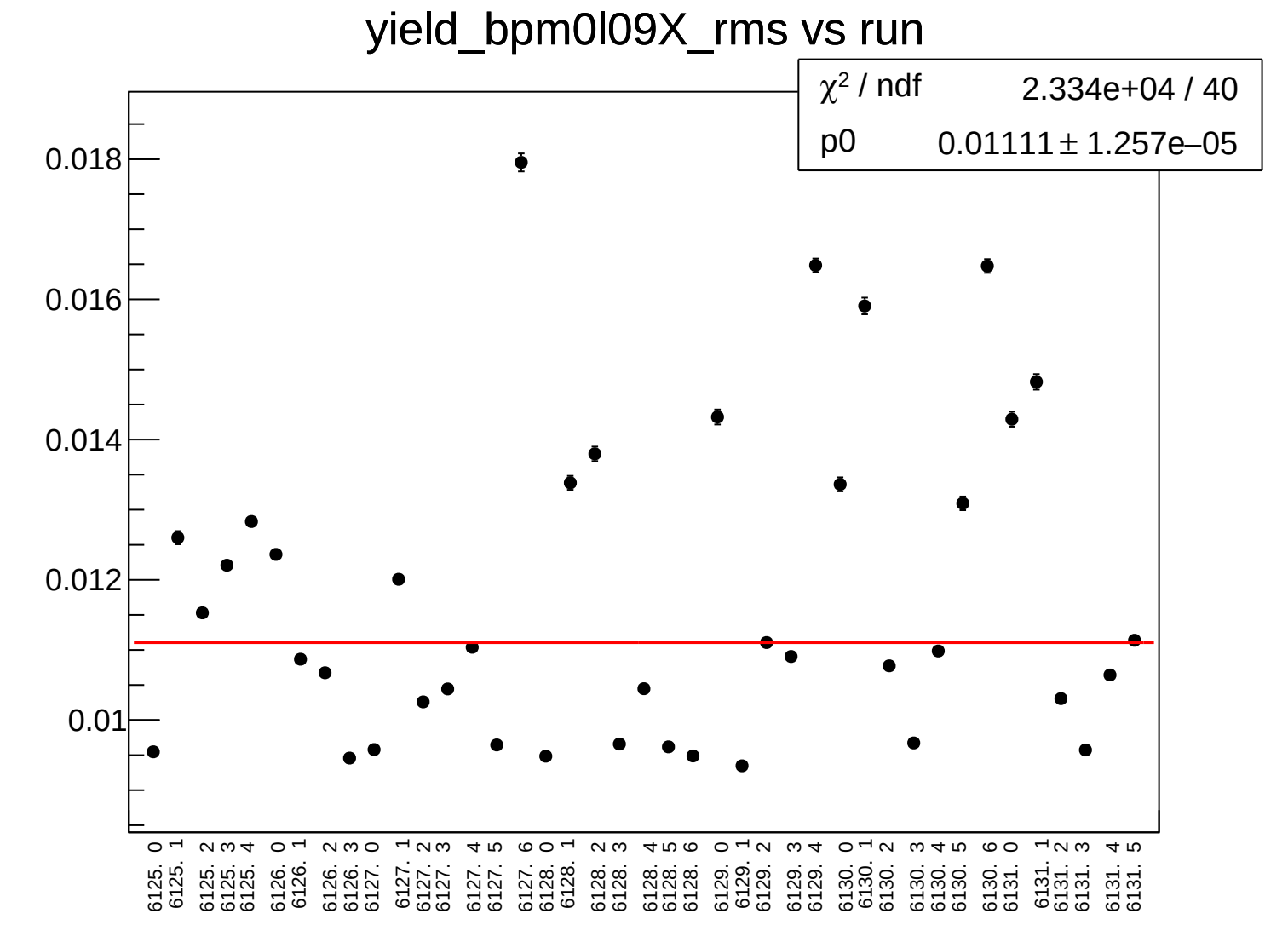

yield_bpm0l08X_mean vs run
χ² / ndf 8.097e+04 / 40
p0 0.2176 ± 1.503e−05
0.228
0.226
0.224
0.222
0.22
0.218
0.216
0.214
0.212
0.21
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 743.7
Std Dev 0
80
60
40
20
0
−20
−40
−60
pull1D
Entries 41
Mean −4.891
Std Dev 2.503
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

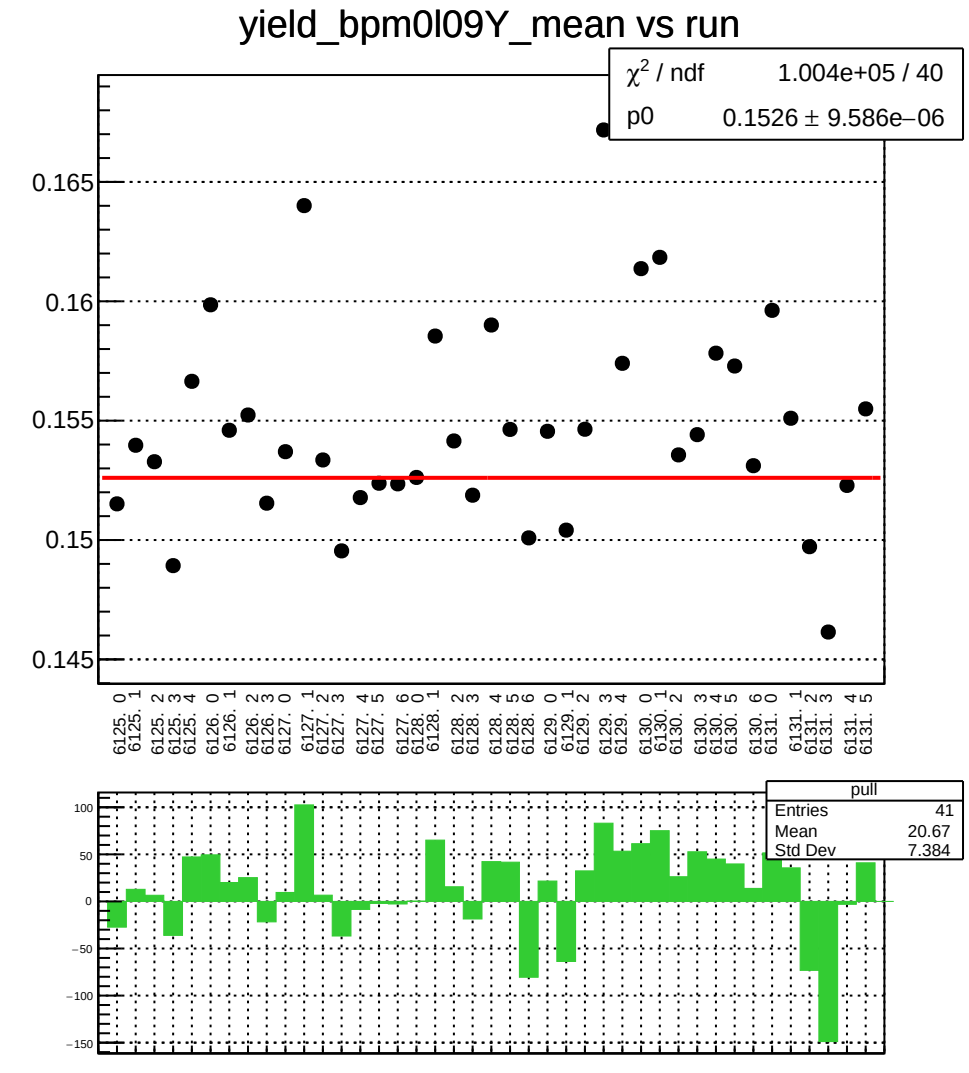

yield_bpm0l08X_rms vs run
χ² / ndf 1.36e+04 / 40
p0 0.00945 ± 1.063e−05
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

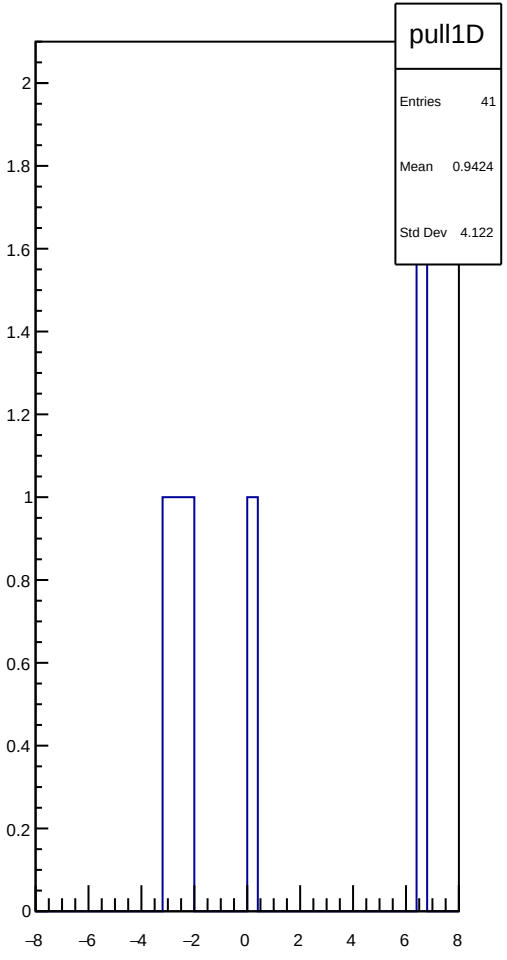

yield_bpm0l08Y_mean vs run
χ² / ndf 1.41e+05 / 40
p0 0.07688 ± 8.965e−06
0.088
0.086
0.084
0.082
0.08
0.078
0.076
0.074
0.072
0.07
0.068
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 84.95
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 41
Mean −1.205
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

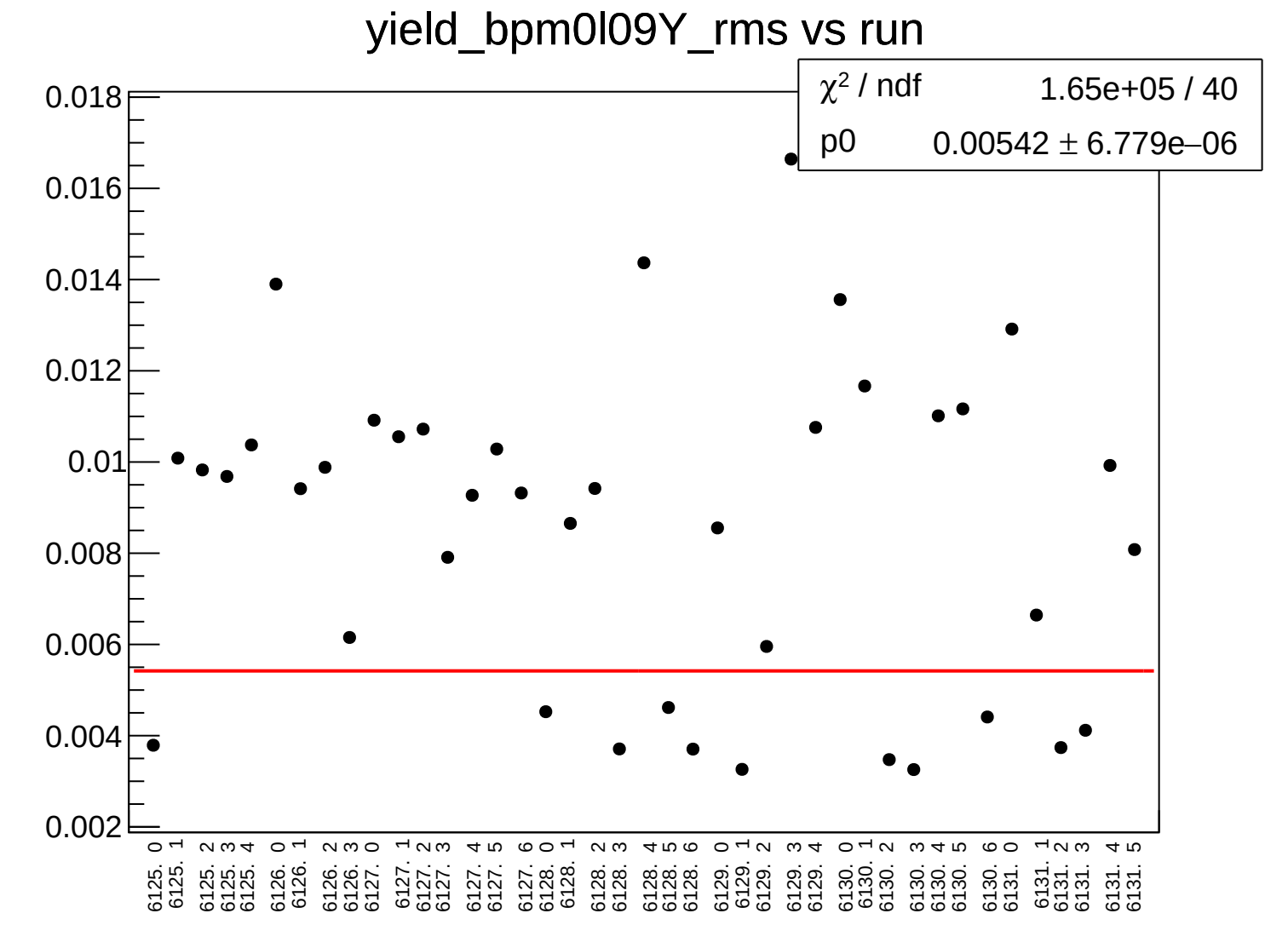

yield_bpm0l08Y_rms vs run
χ² / ndf 1.092e+05 / 40
p0 0.005285 ± 6.339e−06
0.012
0.01
0.008
0.006
0.004
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

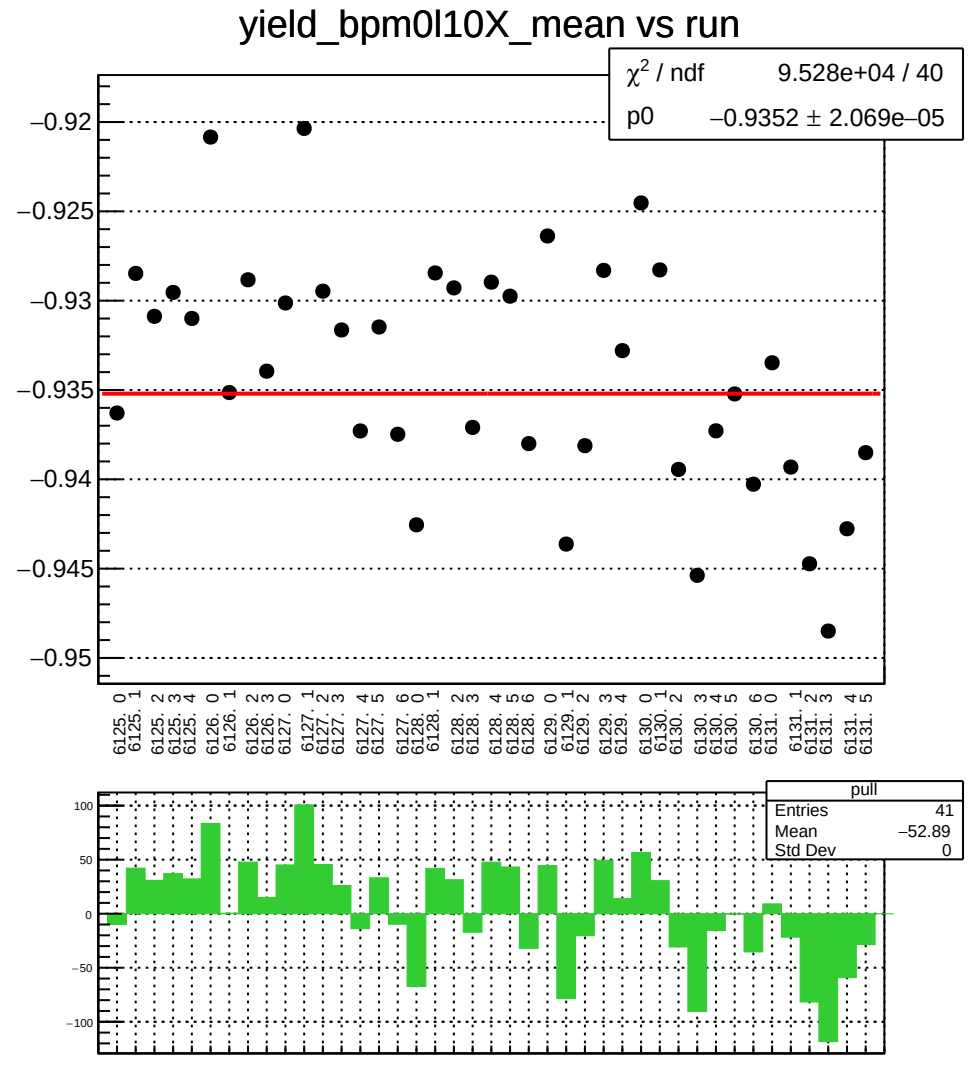

yield_bpm0l09X_mean vs run
χ² / ndf 7.65e+04 / 40
p0 0.9179 ± 1.778e−05
0.93
0.925
0.92
0.915
0.91
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −123.5
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
pull1D
Entries 41
Mean −2.211
Std Dev 2.774
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

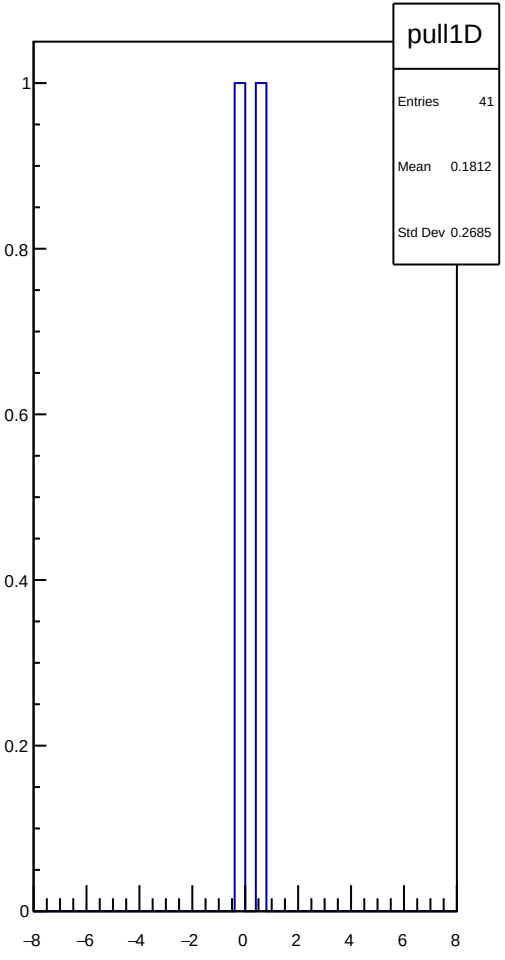

yield_bpm0l09X_rms vs run
χ² / ndf 2.334e+04 / 40
p0 0.01111 ± 1.257e–05
0.018
0.016
0.014
0.012
0.01
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

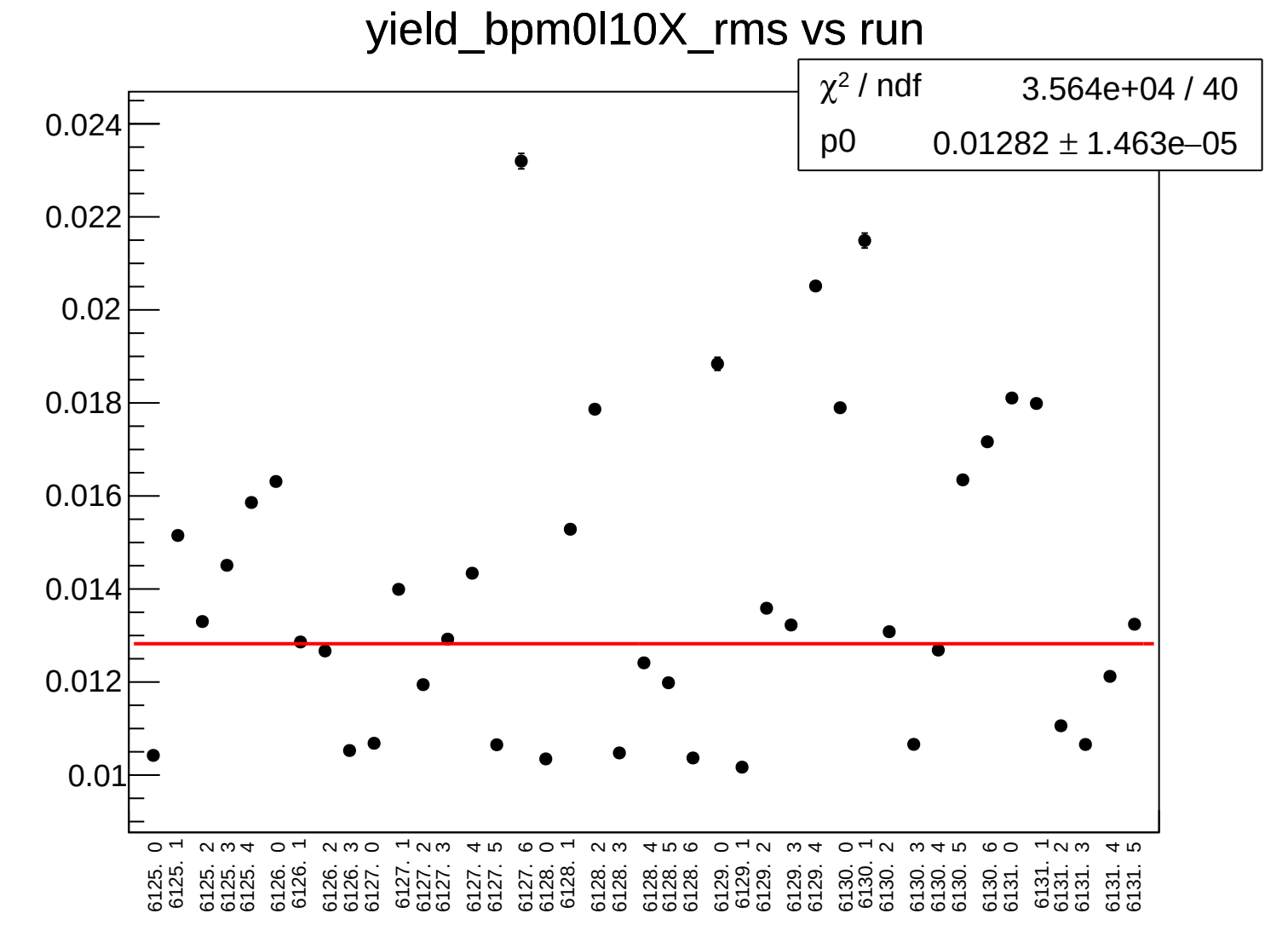

yield_bpm0l09Y_mean vs run
χ² / ndf 1.004e+05 / 40
p0 0.1526 ± 9.586e−06
0.165
0.16
0.155
0.15
0.145
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 20.67
Std Dev 7.384
100
50
0
−50
−100
−150

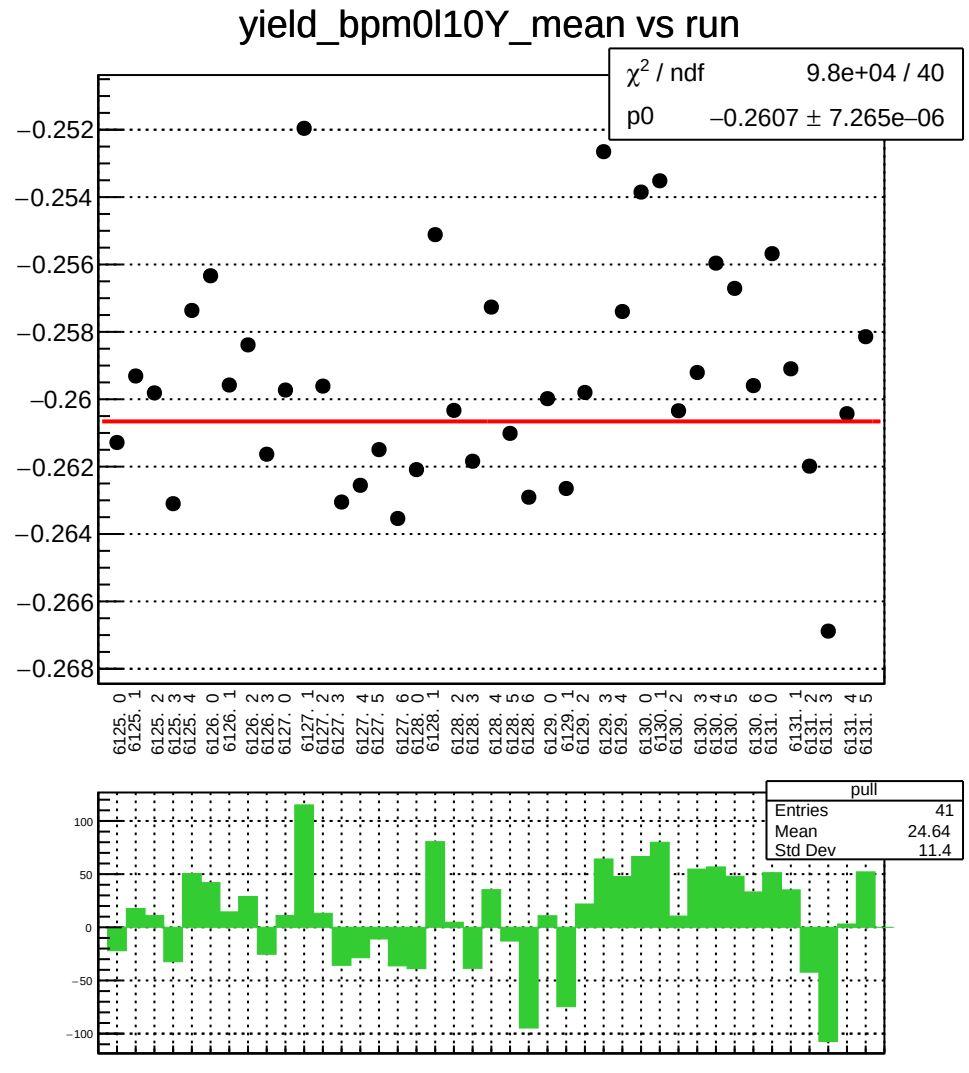

pull1D
Entries 41
Mean 0.9424
Std Dev 4.122
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

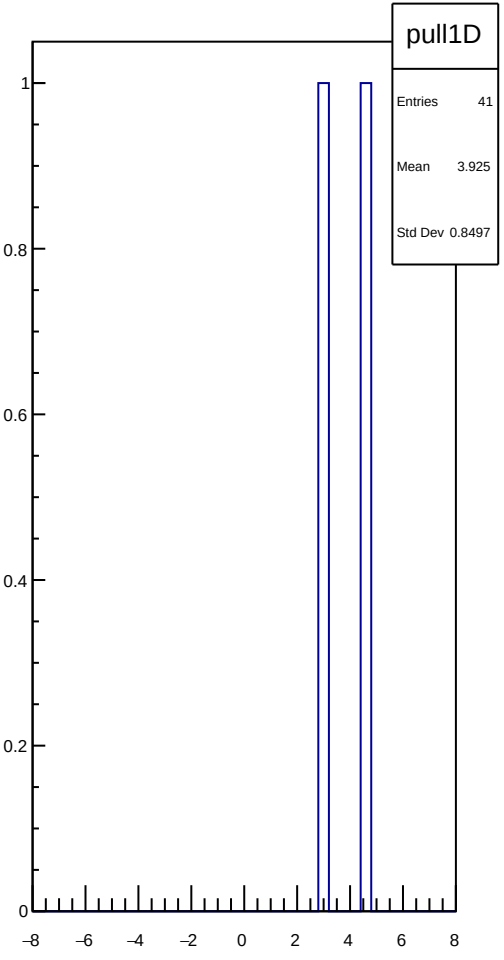

yield_bpm0l09Y_rms vs run
χ² / ndf 1.65e+05 / 40
p0 0.00542 ± 6.779e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

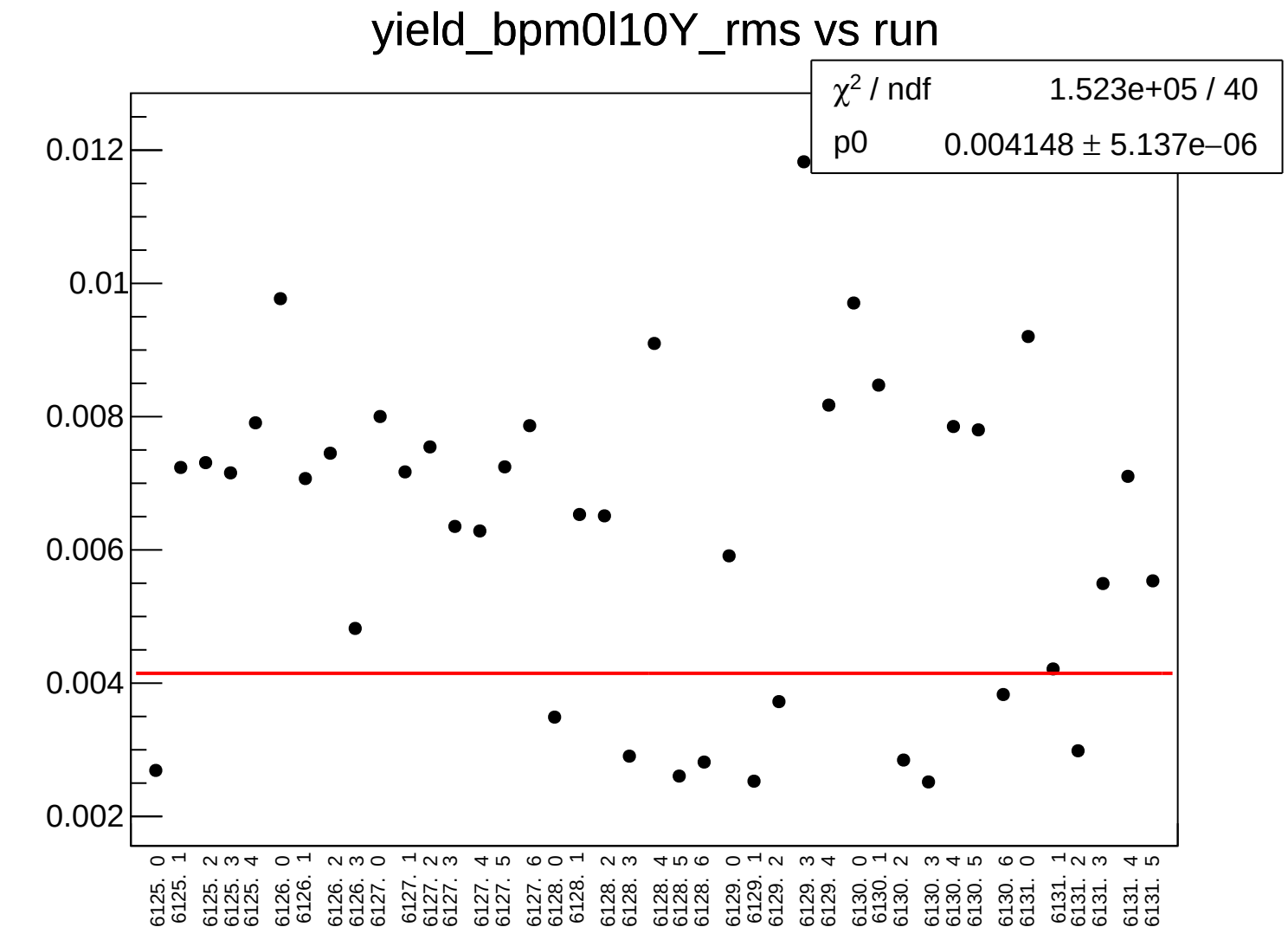

yield_bpm0l10X_mean vs run
χ² / ndf 9.528e+04 / 40
p0 −0.9352 ± 2.069e−05
−0.92
−0.925
−0.93
−0.935
−0.94
−0.945
−0.95
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −52.89
Std Dev 0
100
50
0
−50
−100

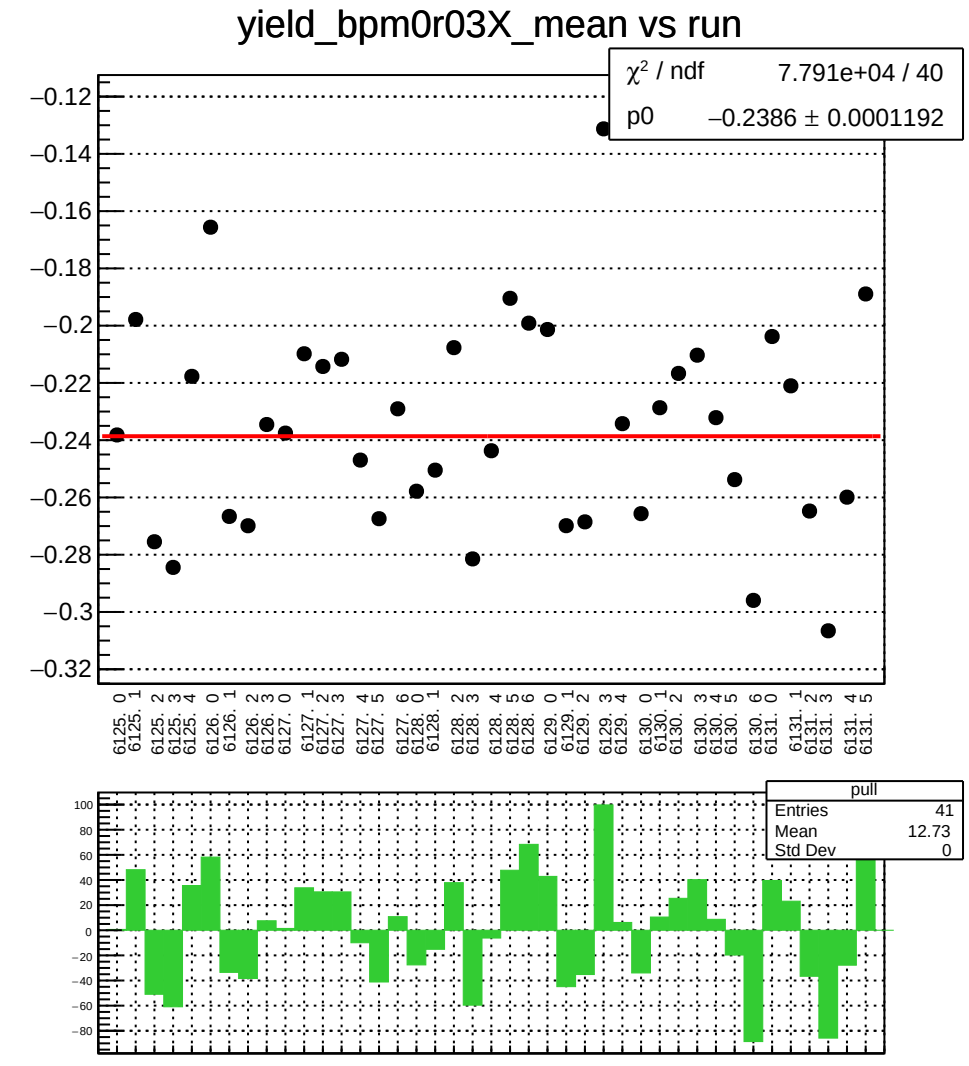

pull1D
Entries 41
Mean 0.1812
Std Dev 0.2685
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

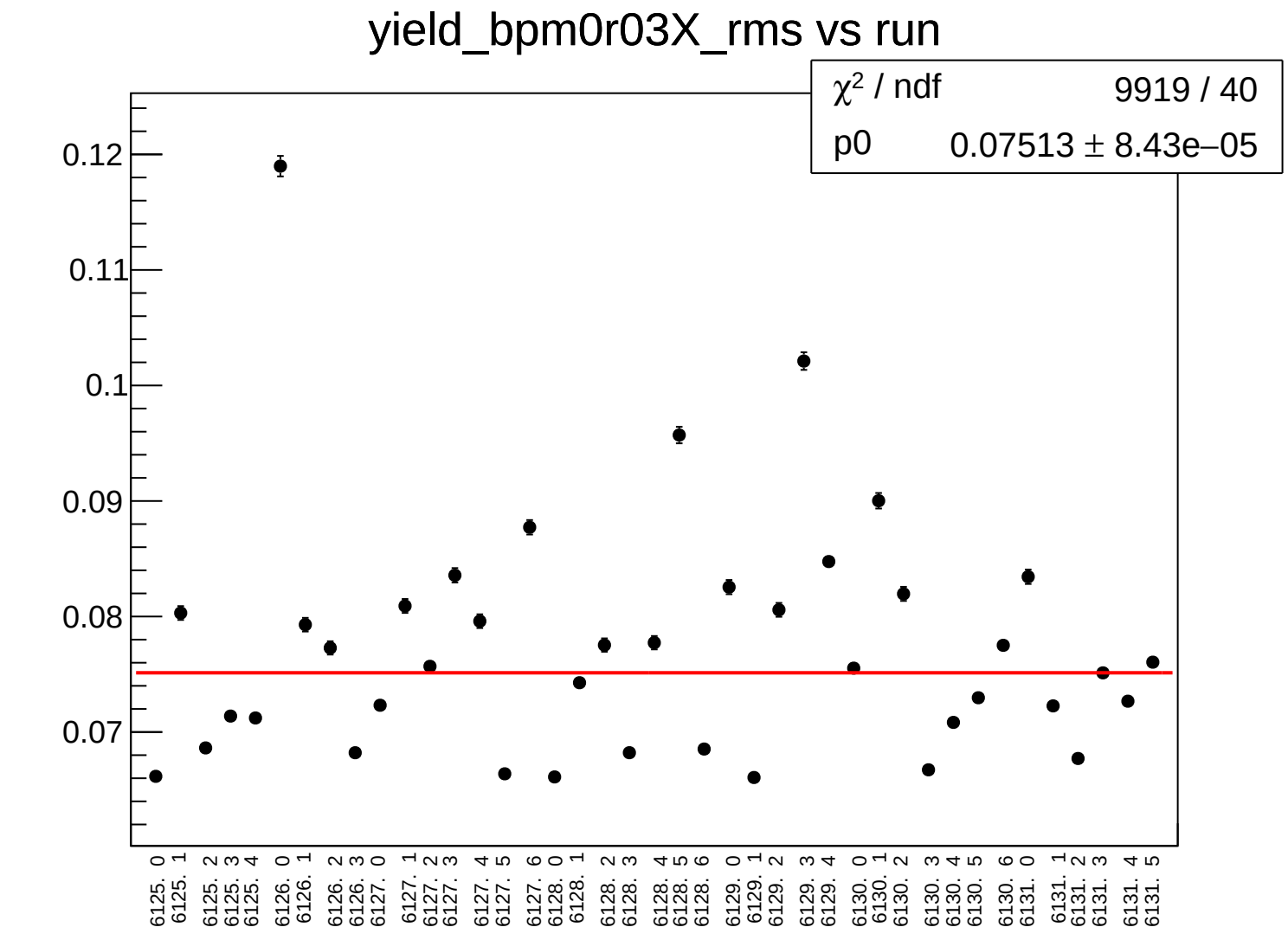

yield_bpm0l10X_rms vs run
χ² / ndf 3.564e+04 / 40
p0 0.01282 ± 1.463e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

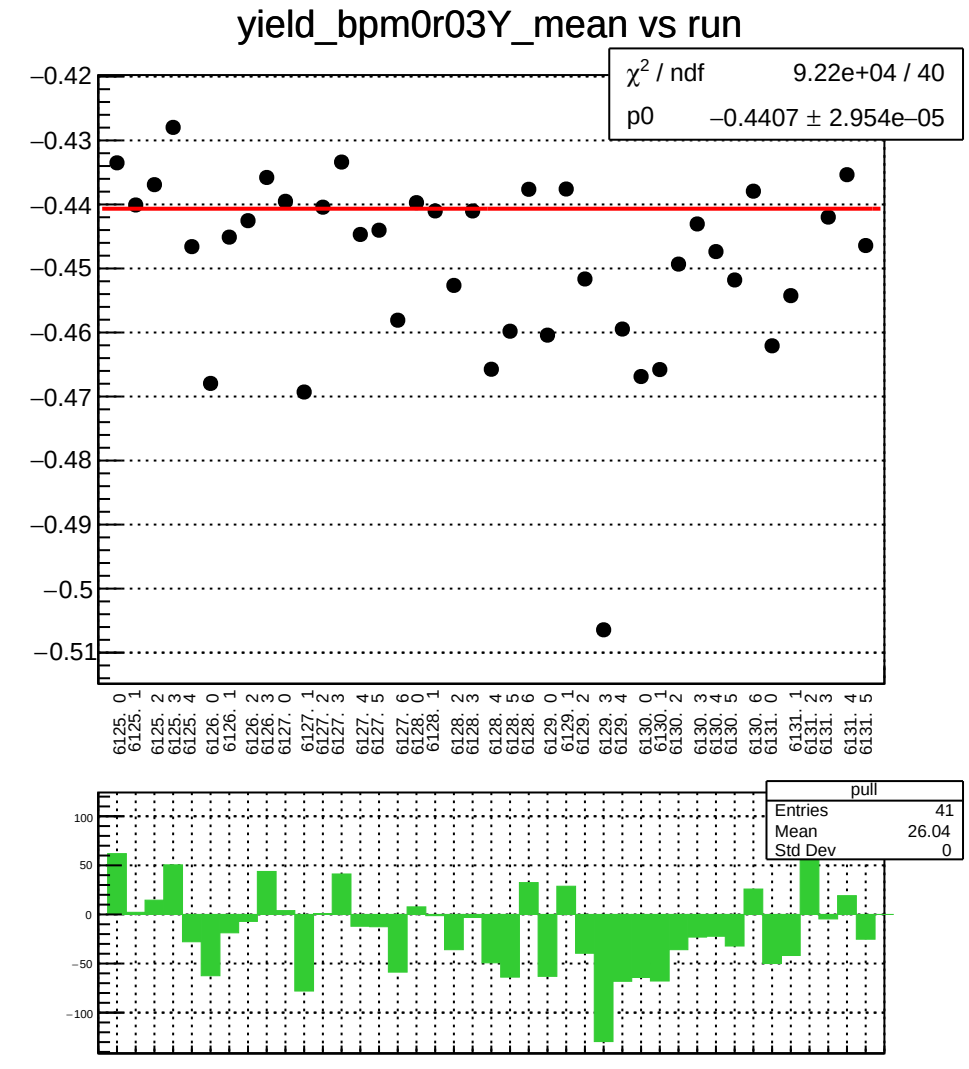

yield_bpm0l10Y_mean vs run
χ² / ndf 9.8e+04 / 40
p0 −0.2607 ± 7.265e−06
−0.252
−0.254
−0.256
−0.258
−0.26
−0.262
−0.264
−0.266
−0.268
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 24.64
Std Dev 11.4
100
50
0
−50
−100

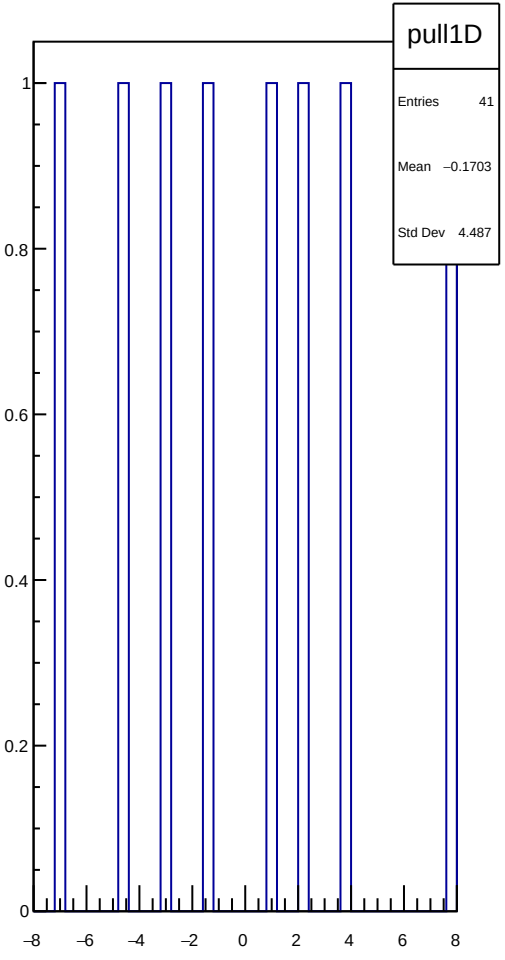

pull1D
Entries 41
Mean 3.925
Std Dev 0.8497
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

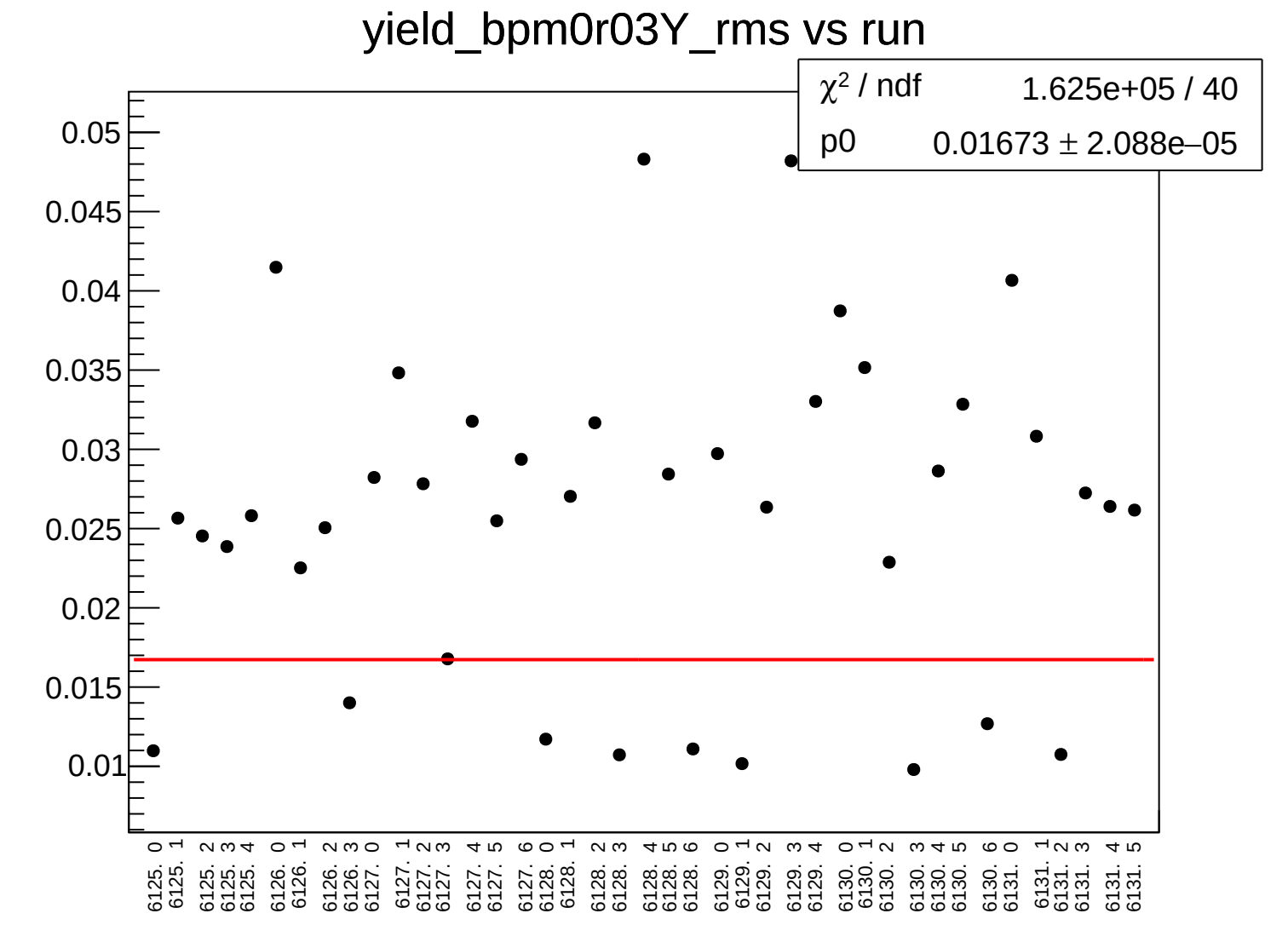

yield_bpm0l10Y_rms vs run
χ² / ndf 1.523e+05 / 40
p0 0.004148 ± 5.137e−06
0.012
0.01
0.008
0.006
0.004
0.002
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

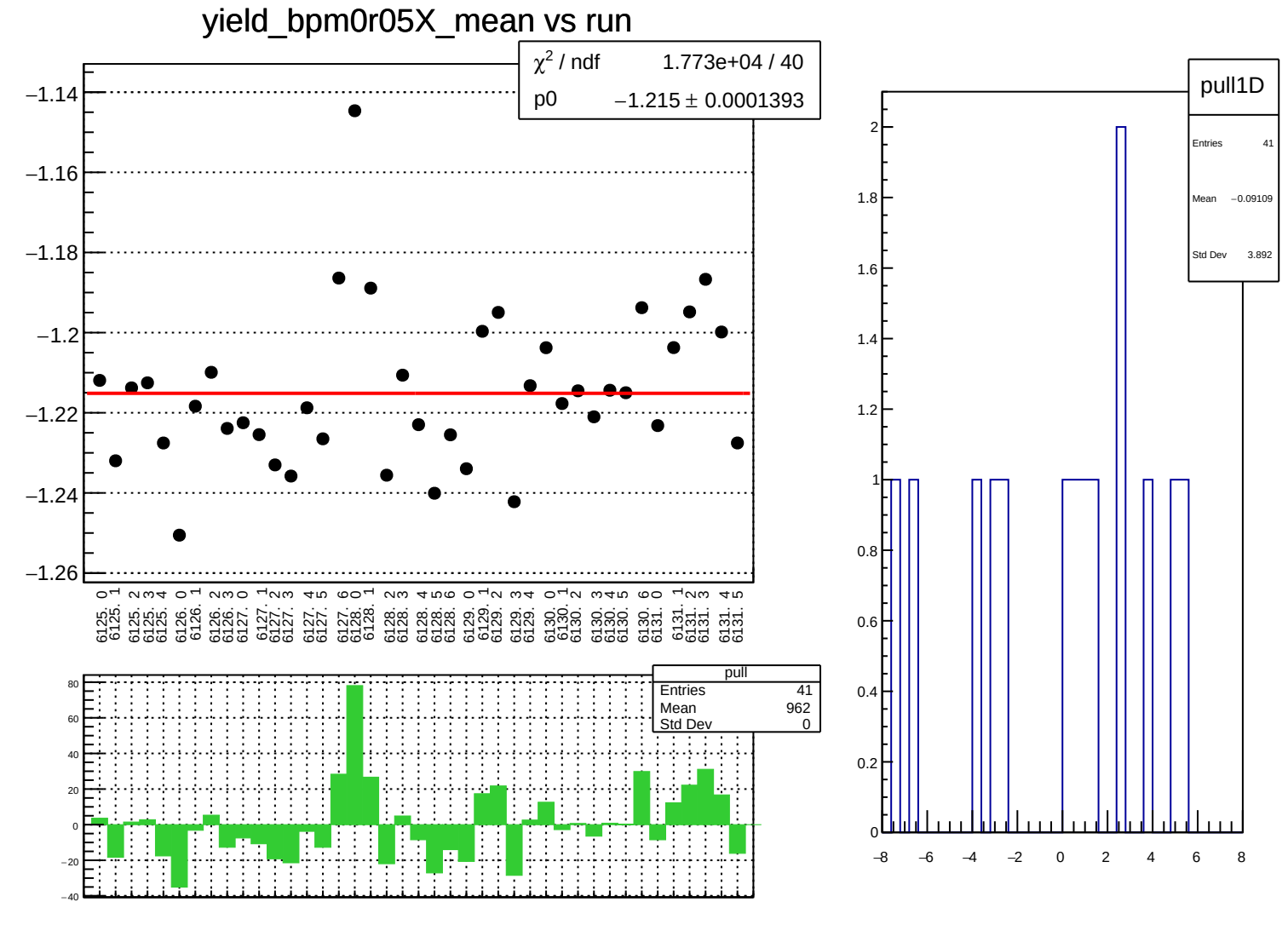

yield_bpm0r03X_mean vs run
χ² / ndf 7.791e+04 / 40
p0 −0.2386 ± 0.0001192
−0.12
−0.14
−0.16
−0.18
−0.2
−0.22
−0.24
−0.26
−0.28
−0.3
−0.32
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 12.73
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 41
Mean 1.919
Std Dev 4.845
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

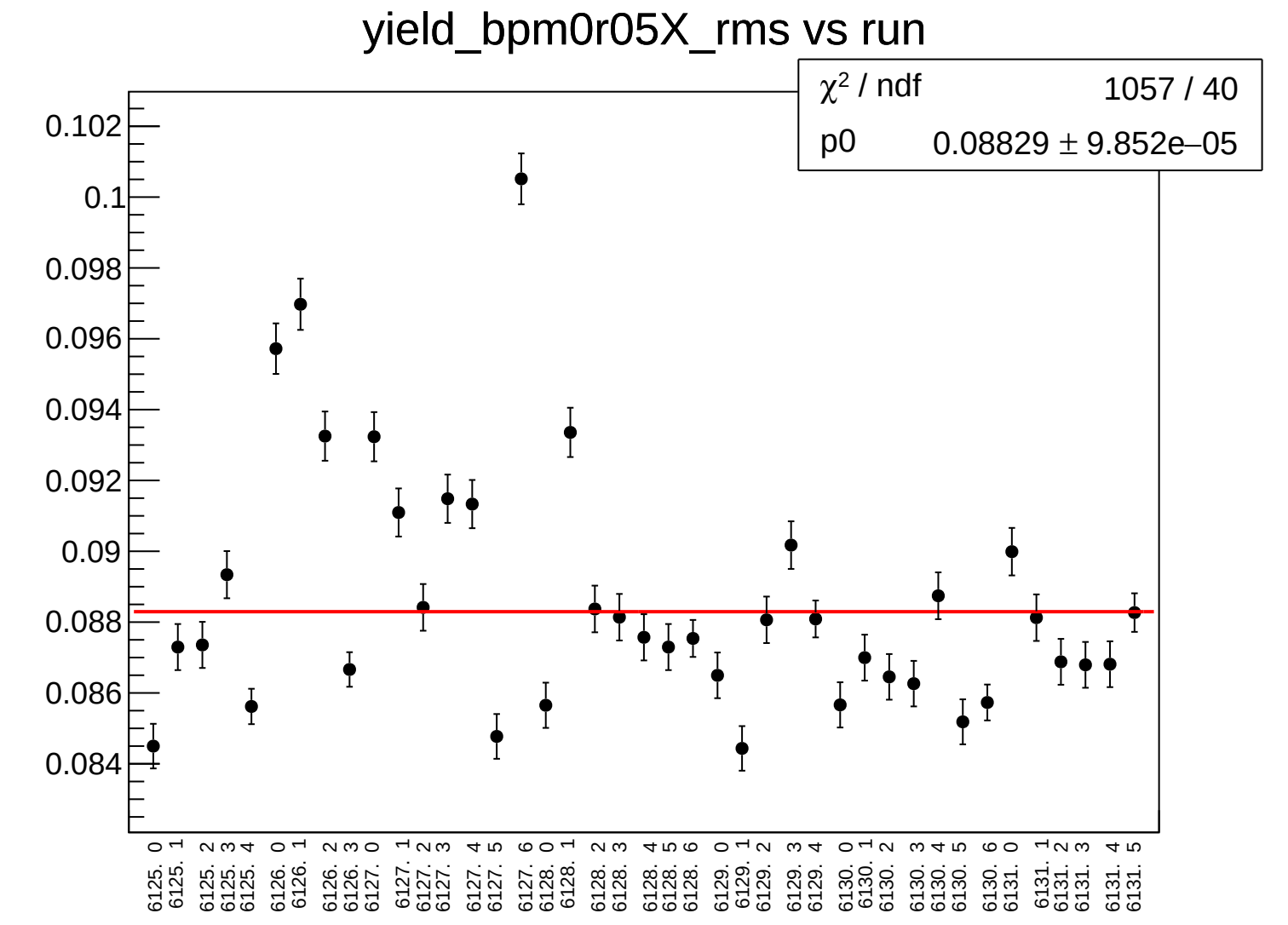

yield_bpm0r03X_rms vs run
χ² / ndf 9919 / 40
p0 0.07513 ± 8.43e–05
0.12
0.11
0.1
0.09
0.08
0.07
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

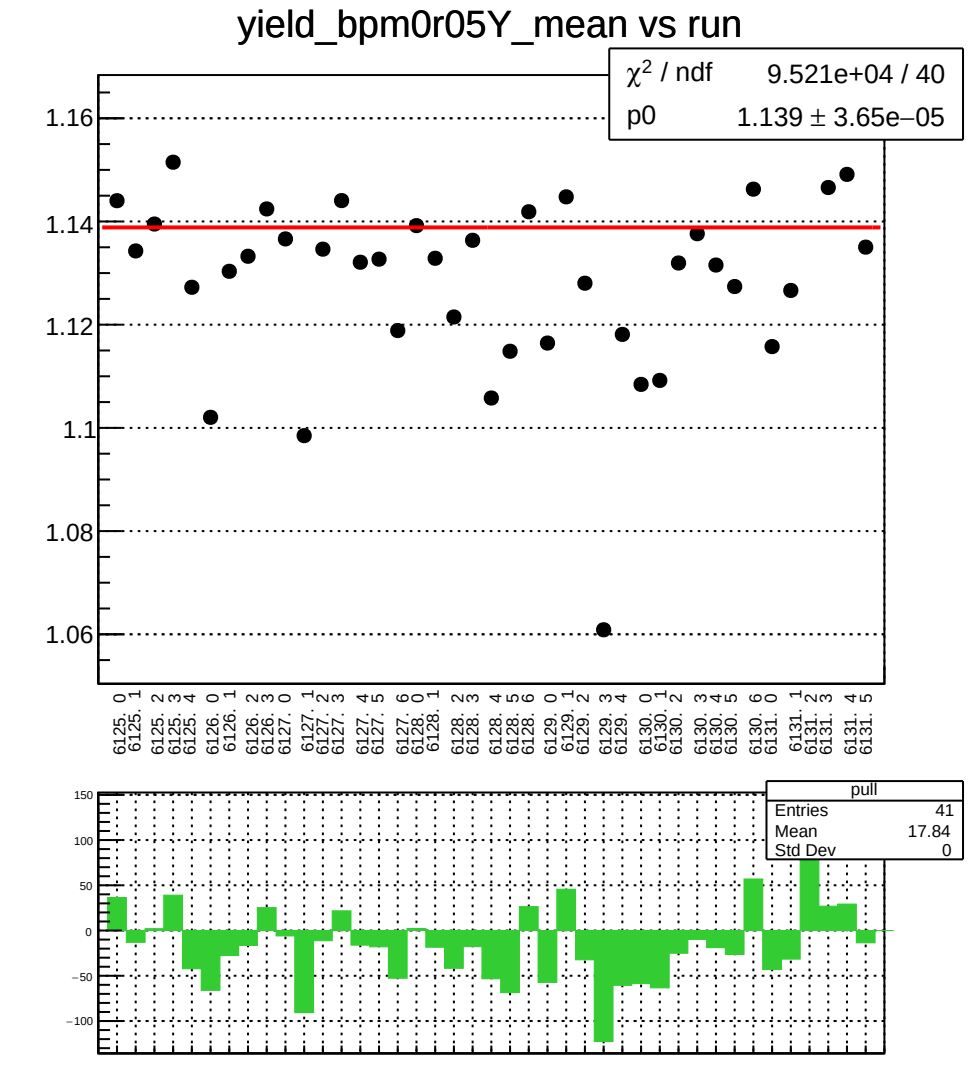

yield_bpm0r03Y_mean vs run
χ² / ndf 9.22e+04 / 40
p0 −0.4407 ± 2.954e−05
pull
Entries 41
Mean 26.04
Std Dev 0

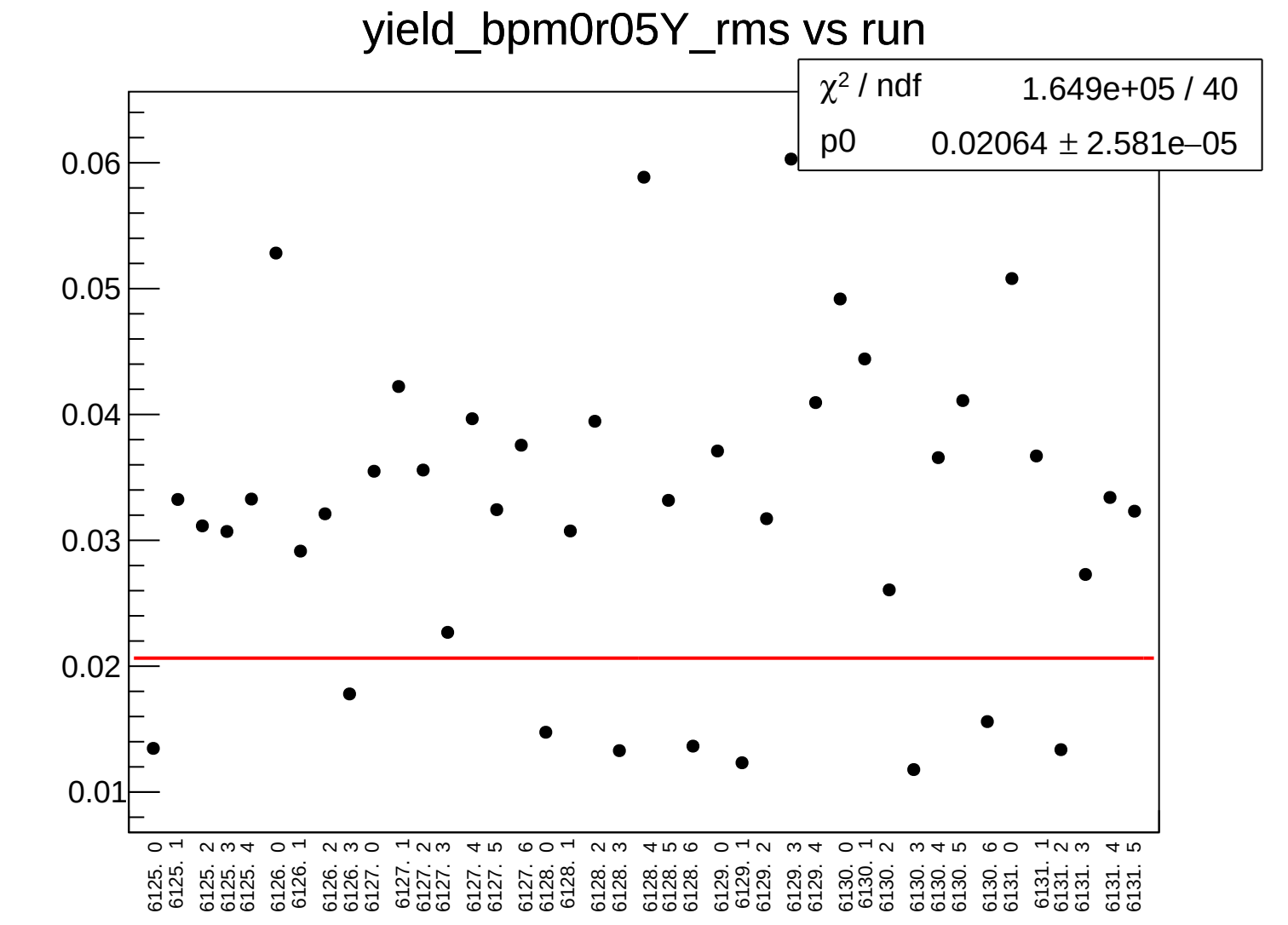

pull1D
Entries 41
Mean −0.1703
Std Dev 4.487

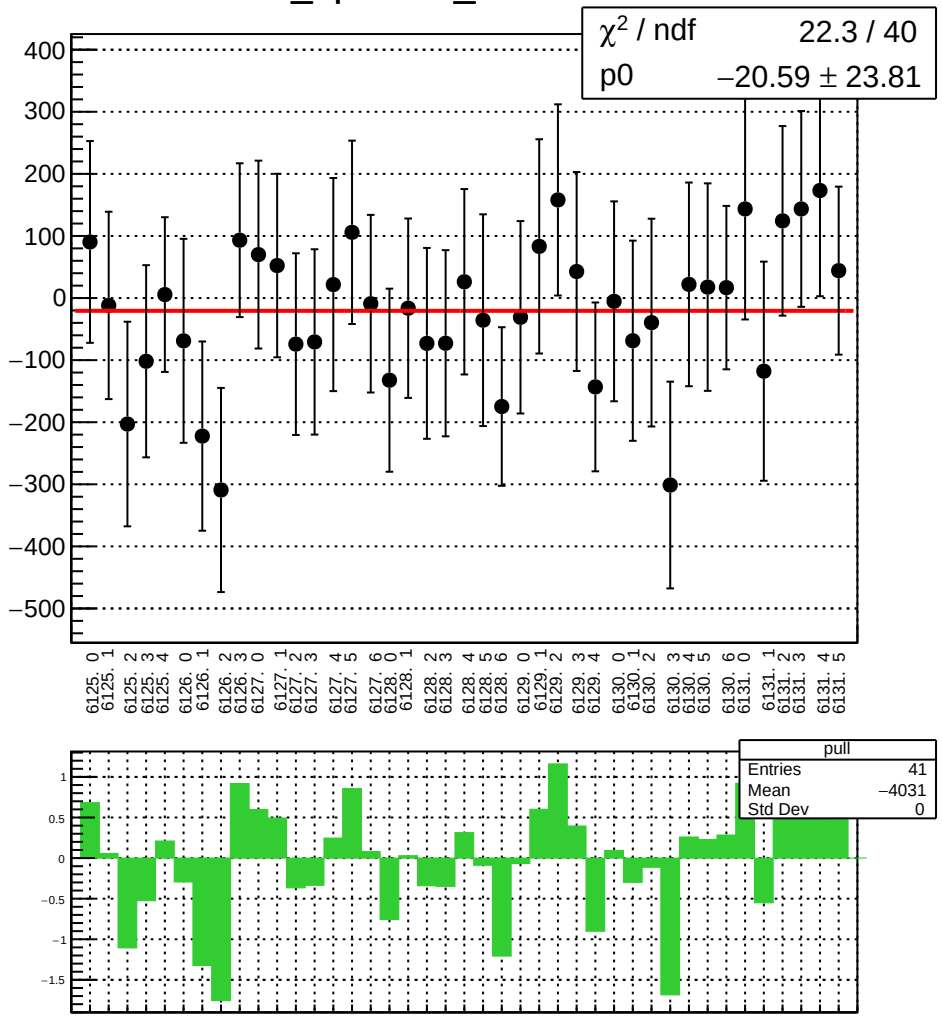

yield_bpm0r03Y_rms vs run
χ² / ndf 1.625e+05 / 40
p0 0.01673 ± 2.088e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

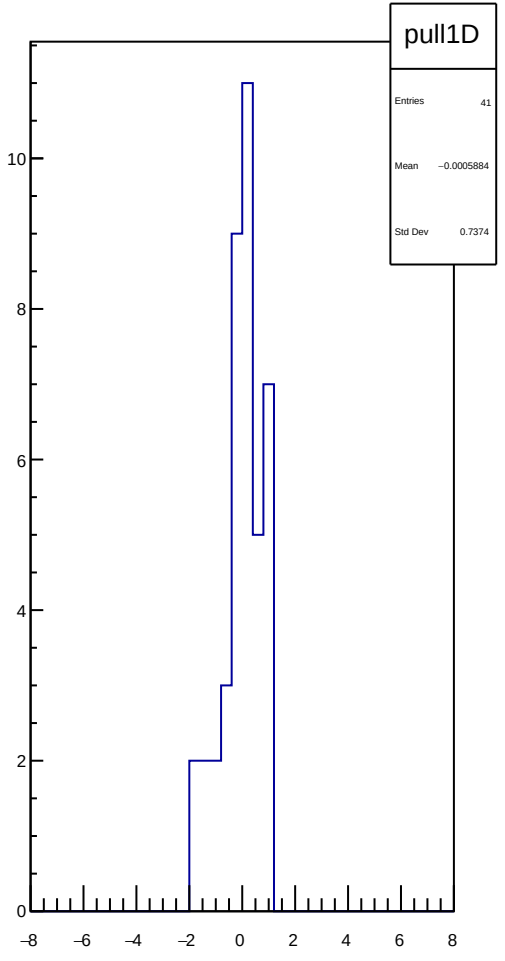

yield_bpm0r05X_mean vs run
χ² / ndf 1.773e+04 / 40
p0 −1.215 ± 0.0001393
−1.14
−1.16
−1.18
−1.2
−1.22
−1.24
−1.26
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 962
Std Dev 0
80
60
40
20
0
−20
−40
pull1D
Entries 41
Mean −0.09109
Std Dev 3.892
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

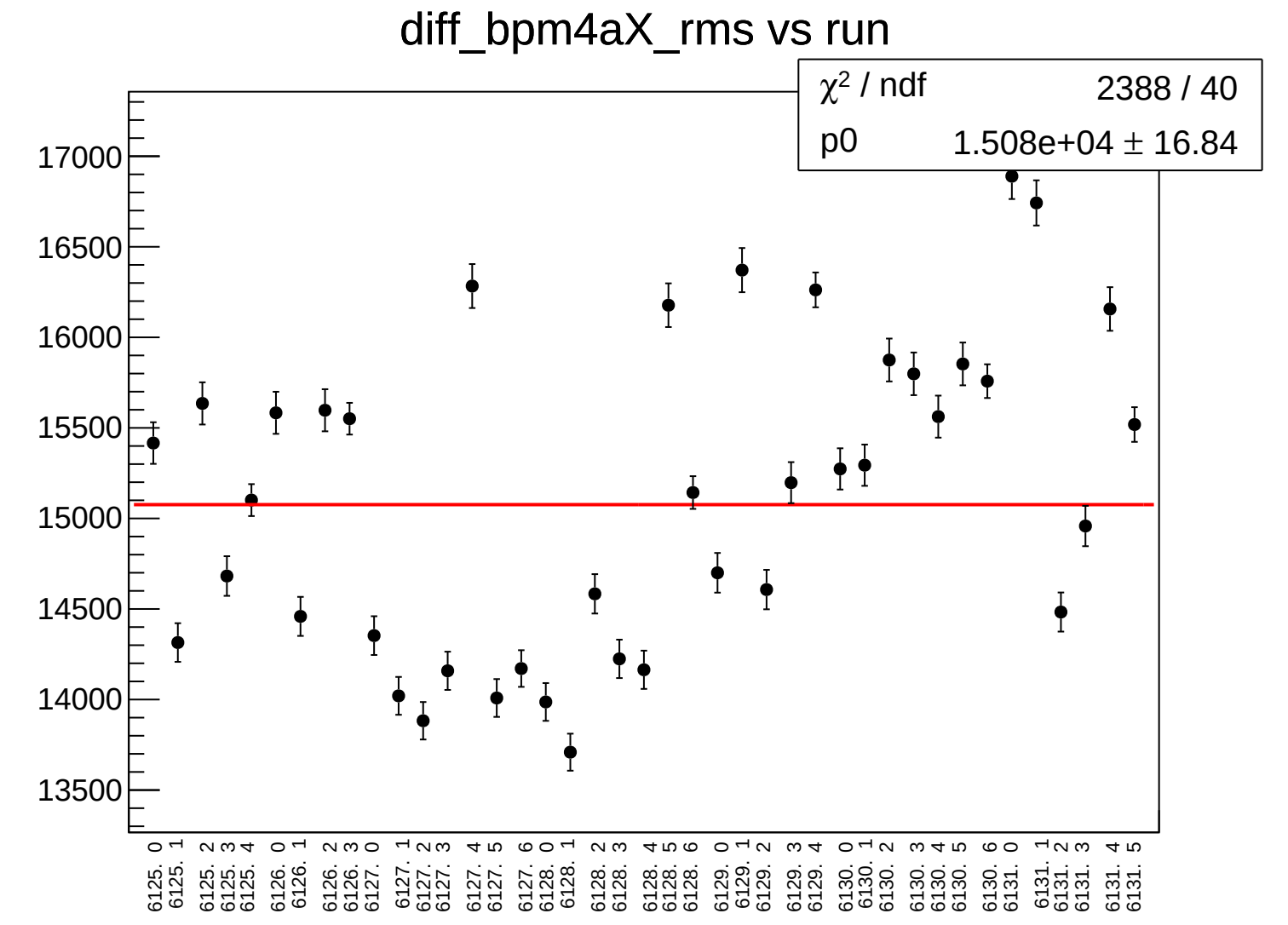

yield_bpm0r05X_rms vs run
χ² / ndf 1057 / 40
p0 0.08829 ± 9.852e−05
0.102
0.1
0.098
0.096
0.094
0.092
0.09
0.088
0.086
0.084
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

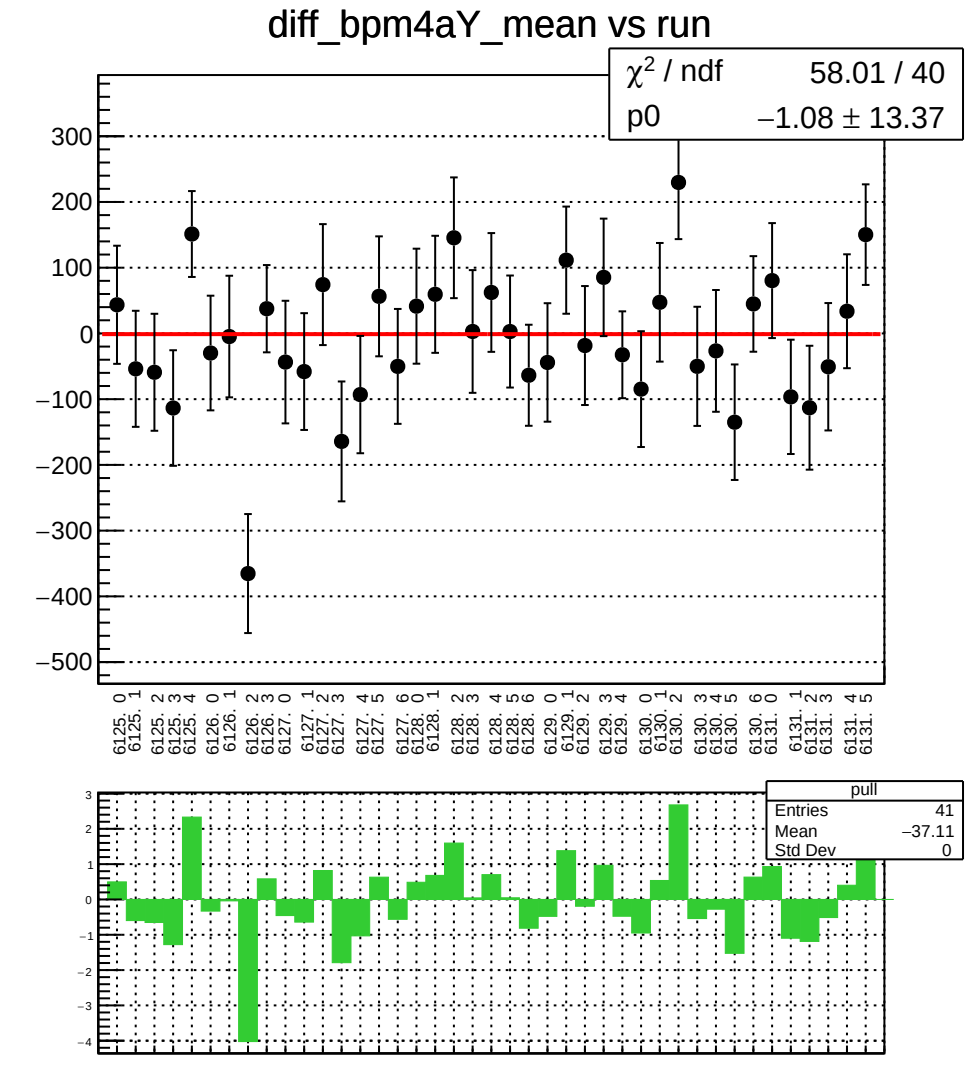

yield_bpm0r05Y_mean vs run
χ² / ndf 9.521e+04 / 40
p0 1.139 ± 3.65e−05
1.16
1.14
1.12
1.1
1.08
1.06
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 17.84
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 41
Mean −0.5648
Std Dev 3.81
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

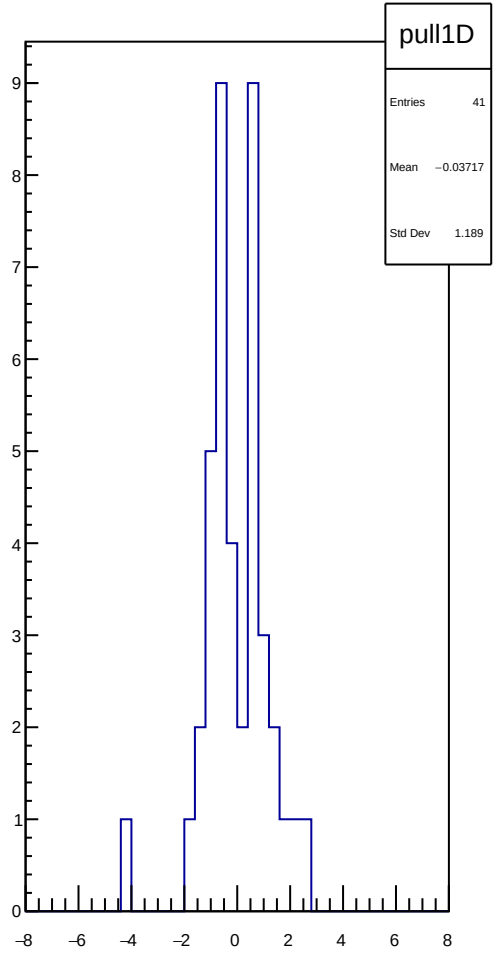

yield_bpm0r05Y_rms vs run
χ² / ndf 1.649e+05 / 40
p0 0.02064 ± 2.581e–05
0.06
0.05
0.04
0.03
0.02
0.01
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

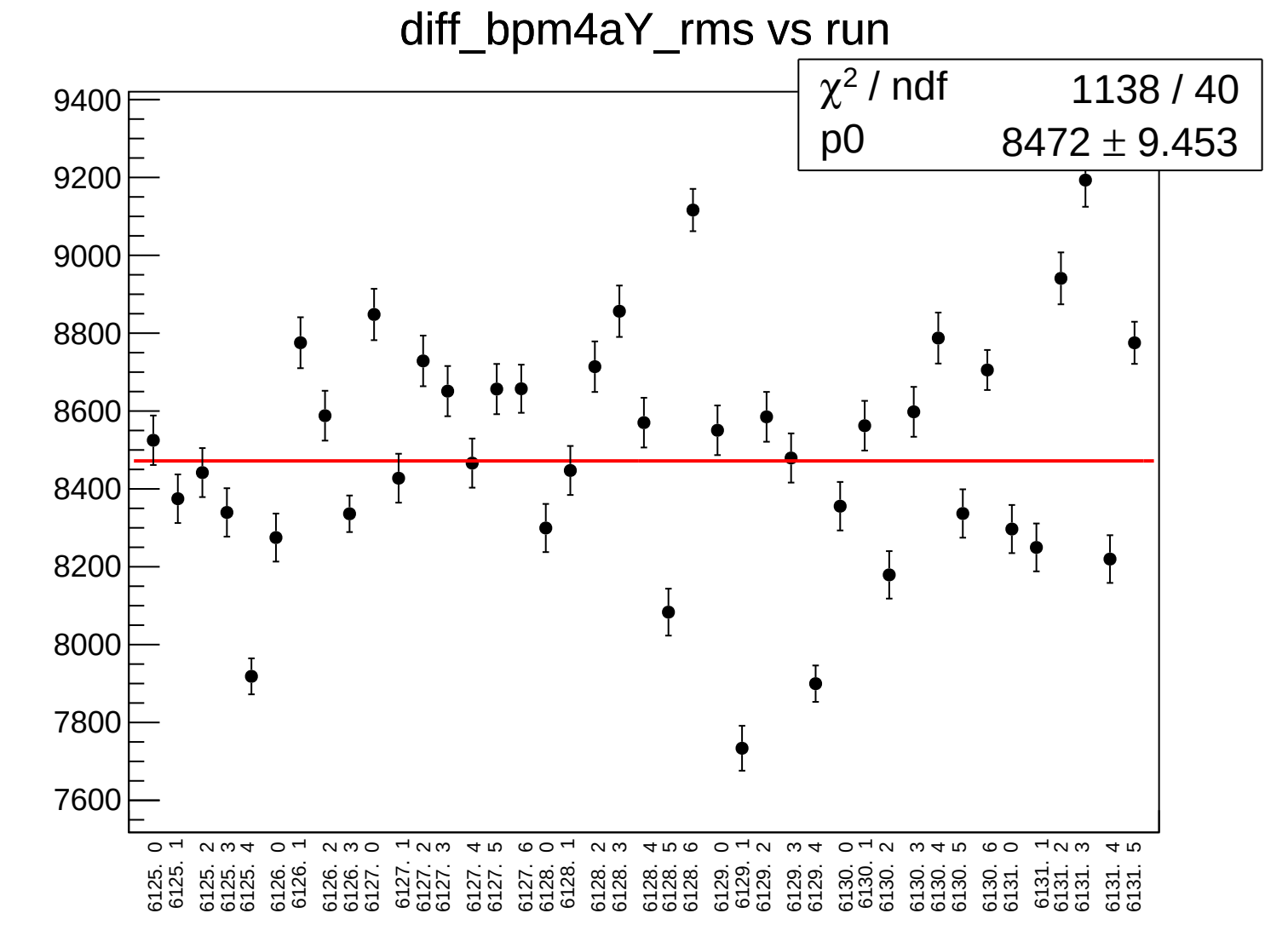

diff_bpm4aX_mean vs run
χ² / ndf 22.3 / 40
p0 −20.59 ± 23.81
pull
Entries 41
Mean −4031
Std Dev 0

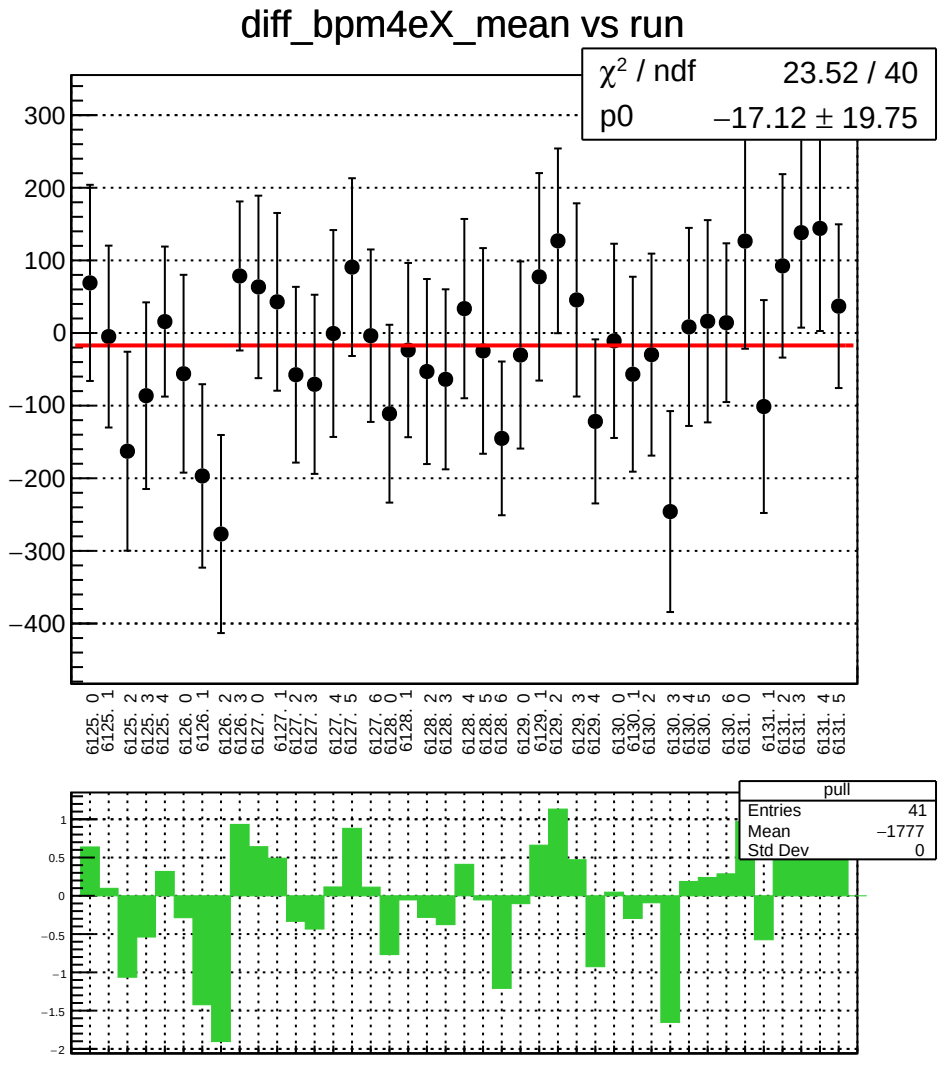

pull1D
Entries 41
Mean −0.0005884
Std Dev 0.7374

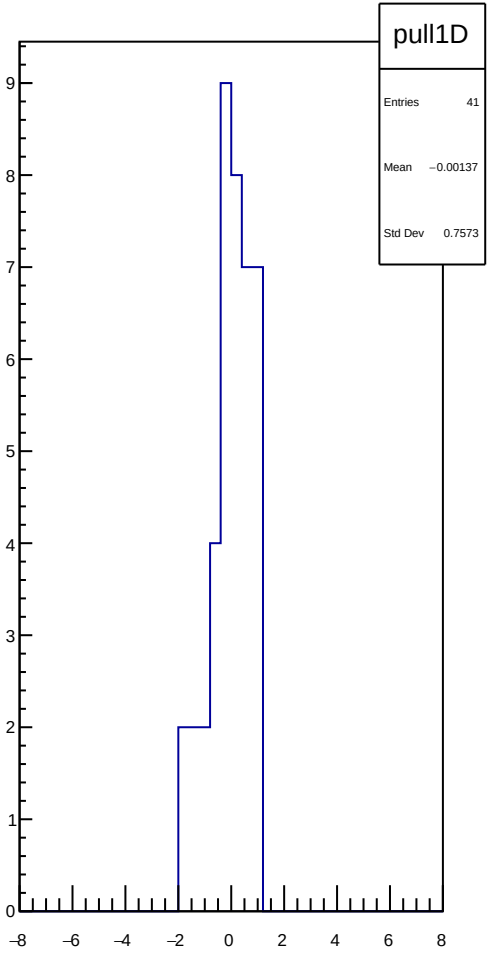

diff_bpm4aX_rms vs run
χ² / ndf 2388 / 40
p0 1.508e+04 ± 16.84
17000
16500
16000
15500
15000
14500
14000
13500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

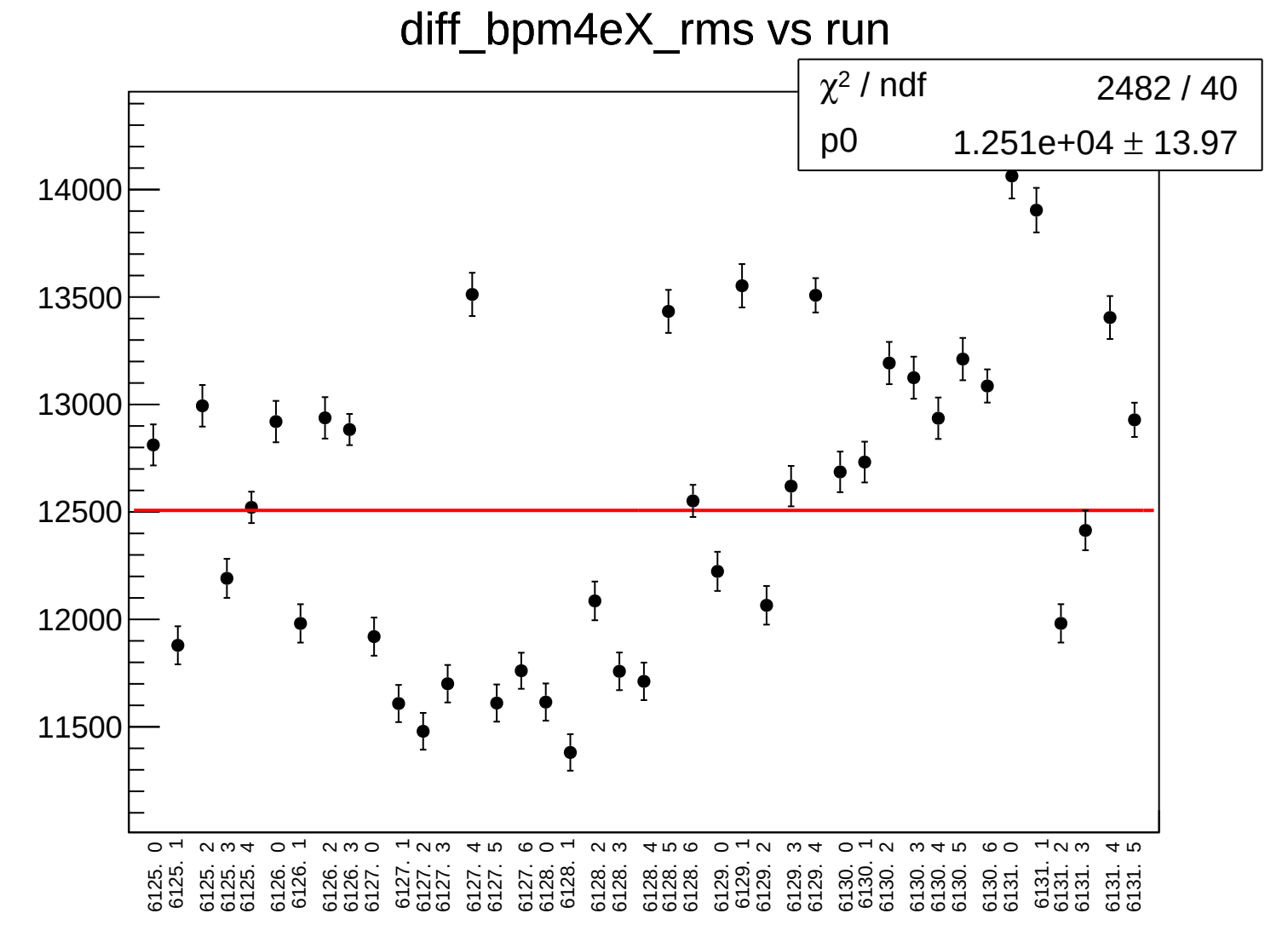

diff_bpm4aY_mean vs run
χ² / ndf 58.01 / 40
p0 −1.08 ± 13.37
pull
Entries 41
Mean −37.11
Std Dev 0

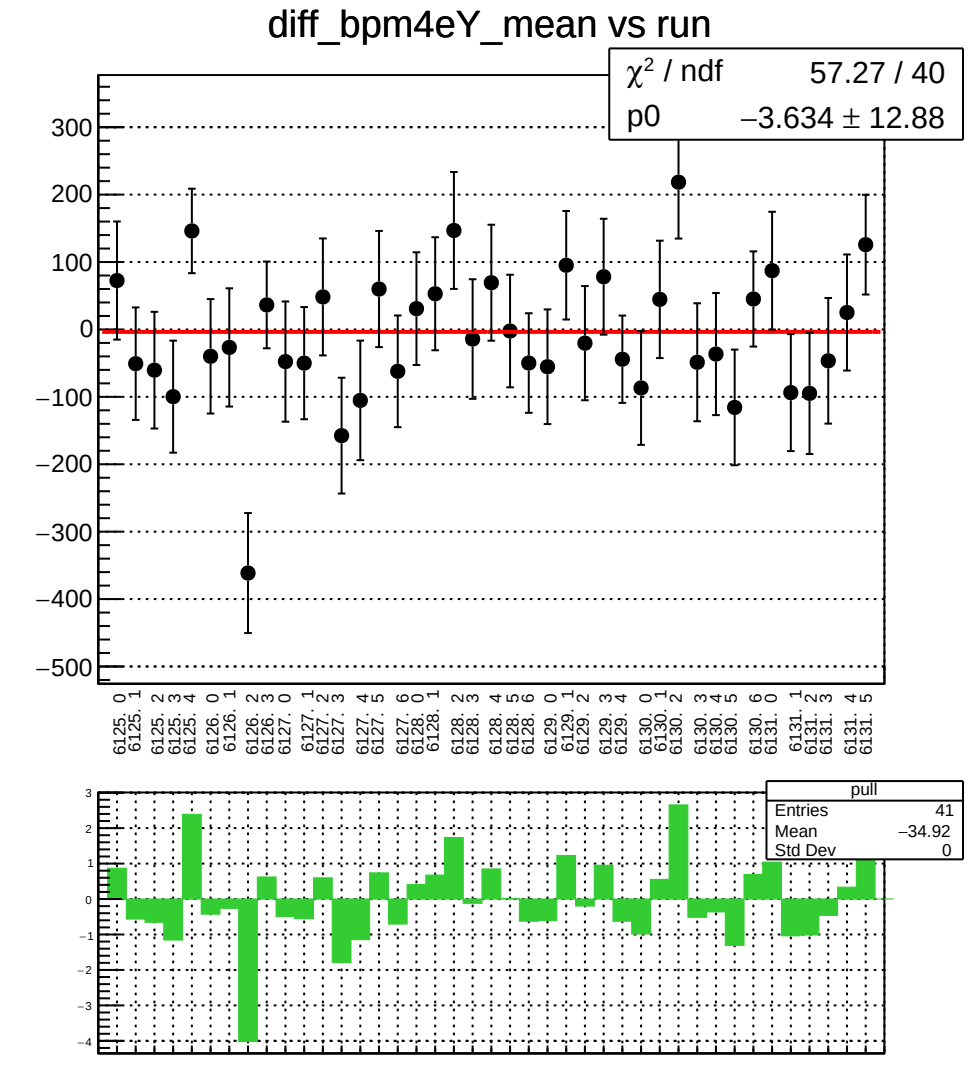

pull1D
Entries 41
Mean −0.03717
Std Dev 1.189

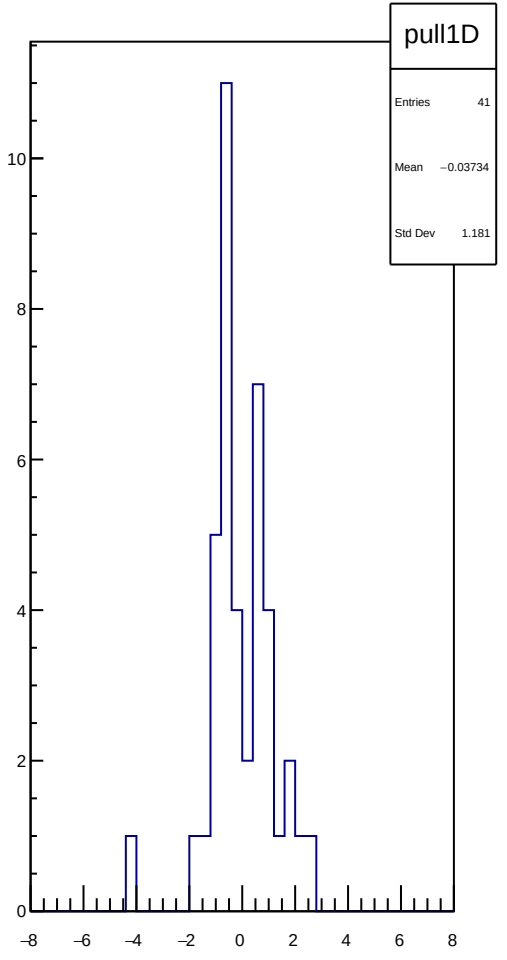

diff_bpm4aY_rms vs run
χ² / ndf 1138 / 40
p0 8472 ± 9.453
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

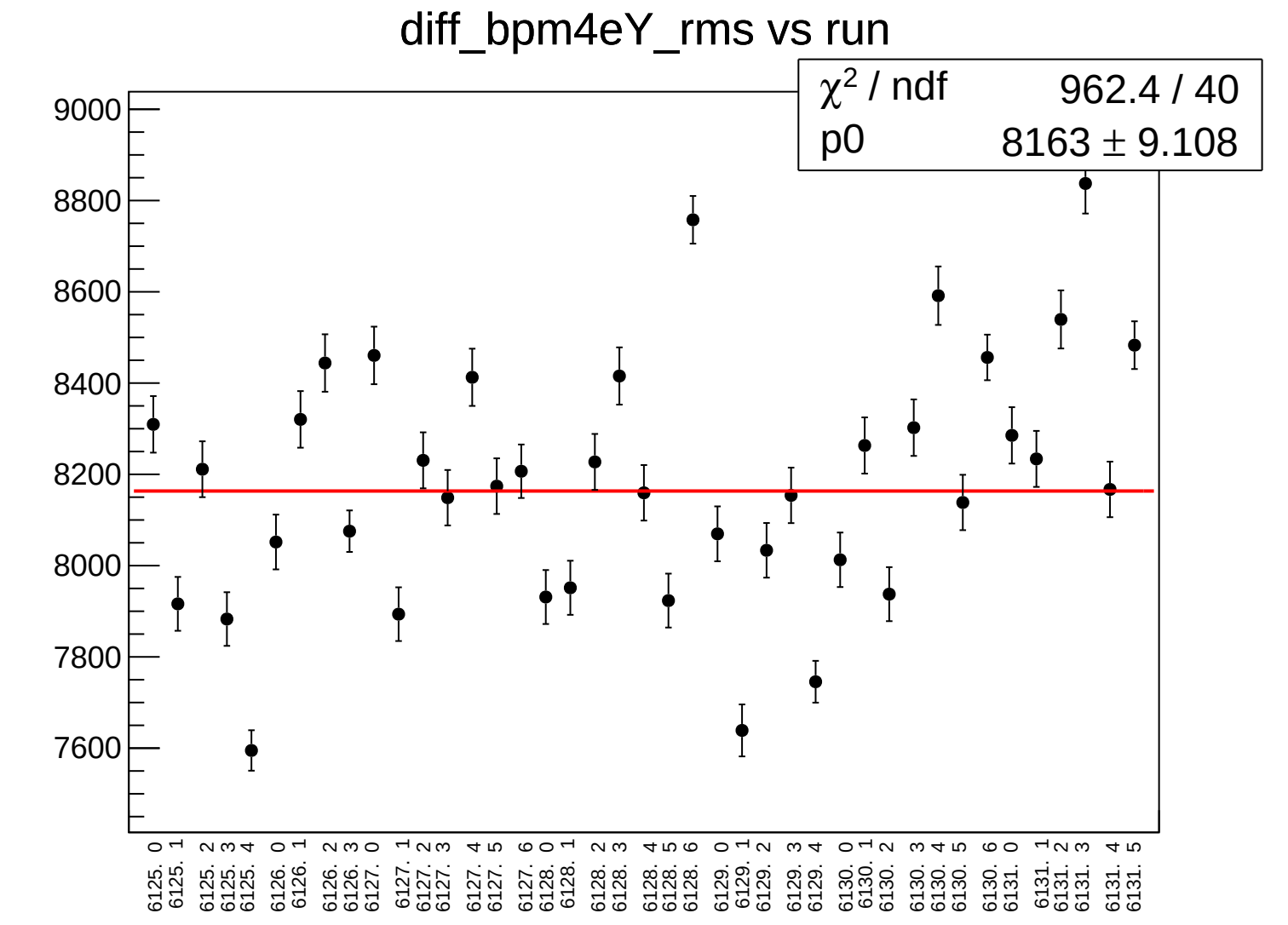

diff_bpm4eX_mean vs run
χ² / ndf 23.52 / 40
p0 −17.12 ± 19.75
pull
Entries 41
Mean −1777
Std Dev 0

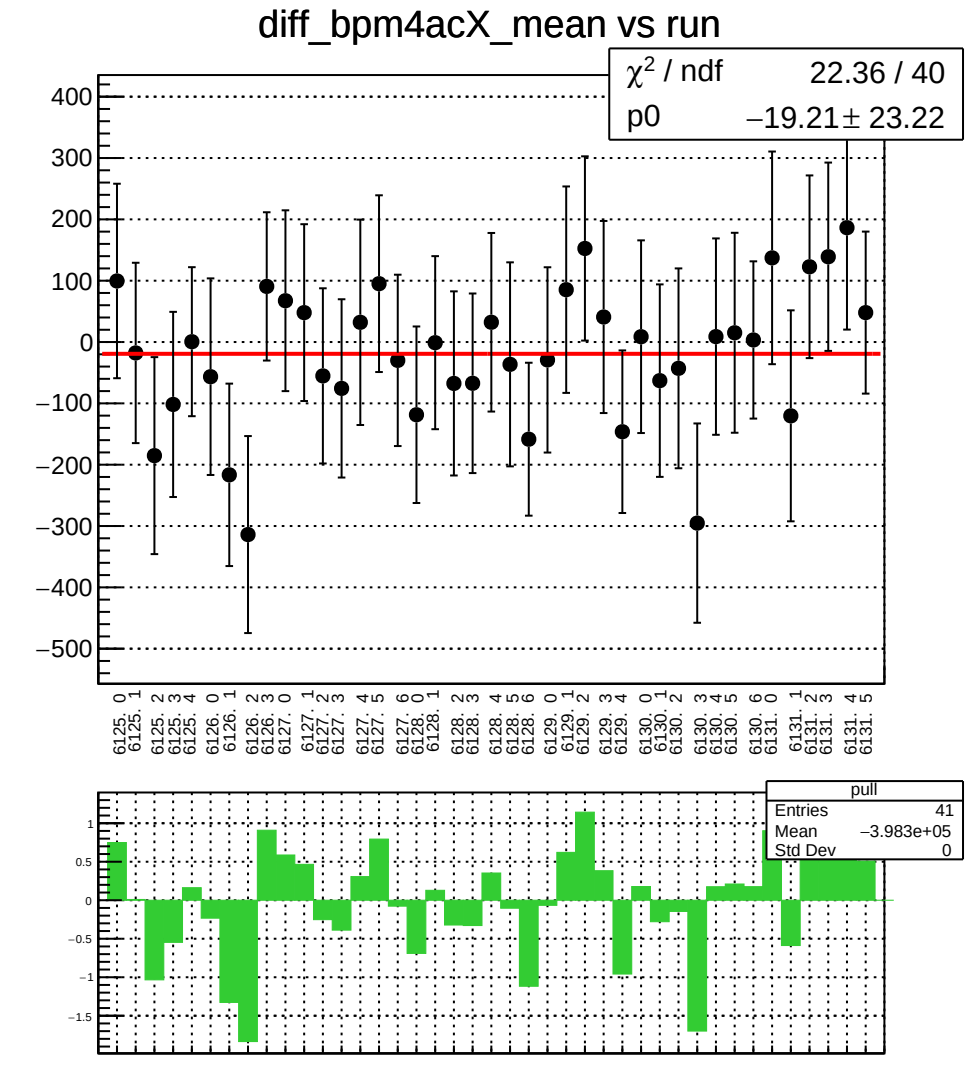

pull1D
Entries 41
Mean −0.00137
Std Dev 0.7573

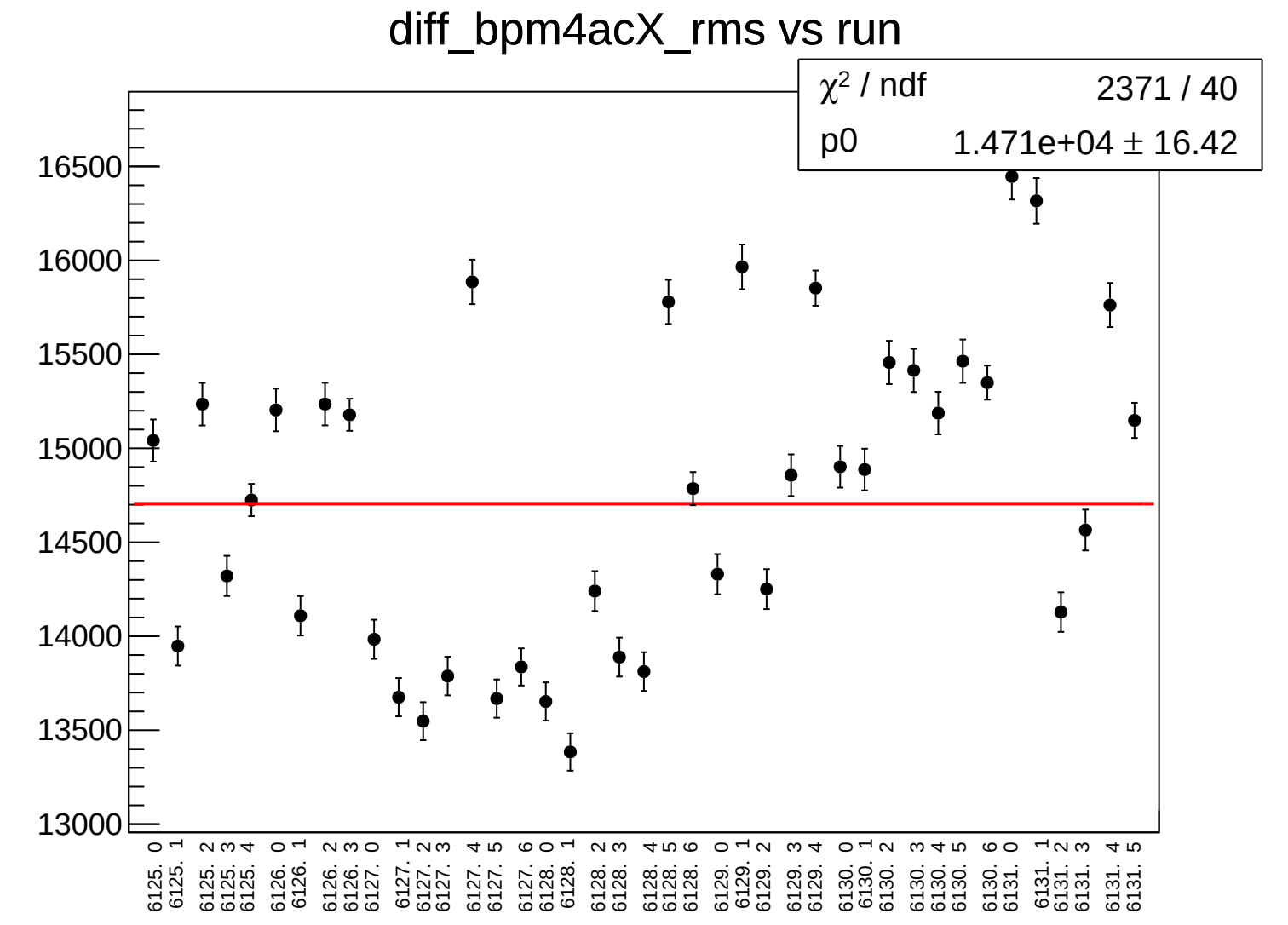

diff_bpm4eX_rms vs run
χ² / ndf 2482 / 40
p0 1.251e+04 ± 13.97
14000
13500
13000
12500
12000
11500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

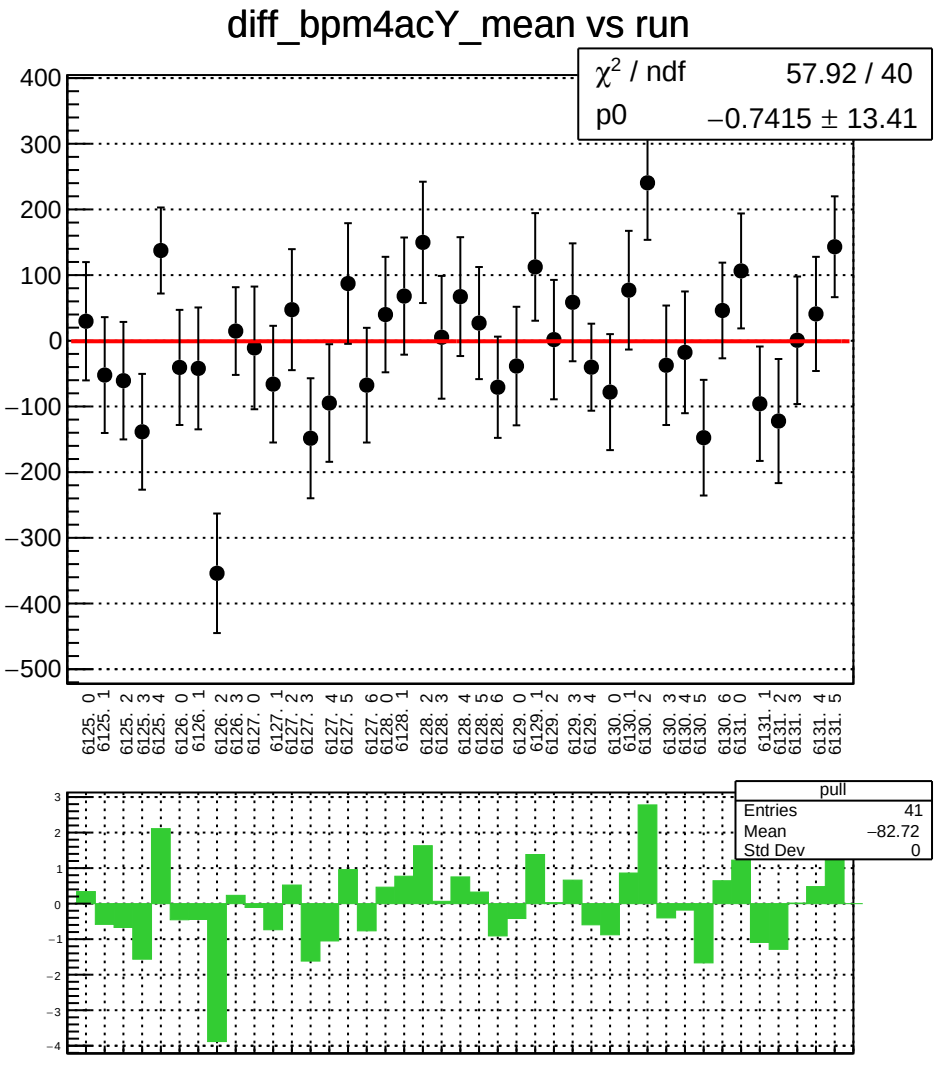

diff_bpm4eY_mean vs run
χ² / ndf 57.27 / 40
p0 −3.634 ± 12.88
300
200
100
0
−100
−200
−300
−400
−500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −34.92
Std Dev 0
3
2
1
0
−1
−2
−3
−4

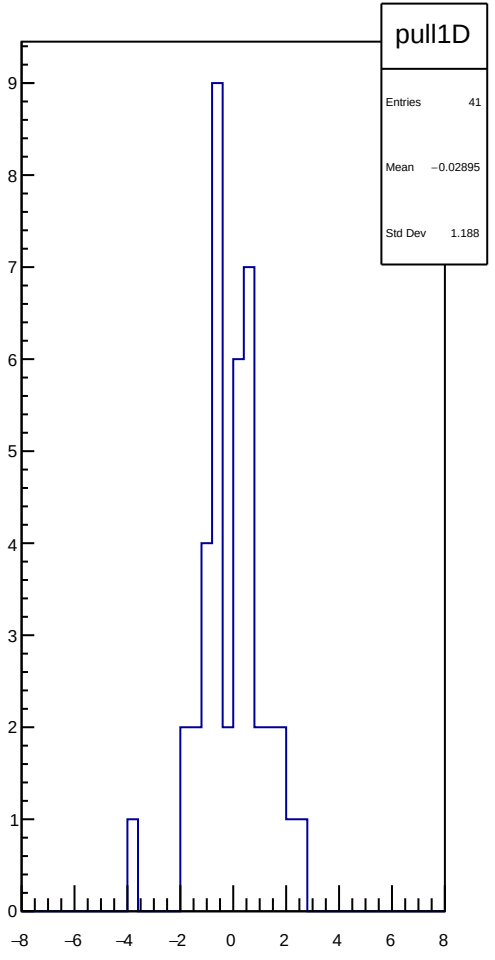

pull1D
Entries 41
Mean −0.03734
Std Dev 1.181
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

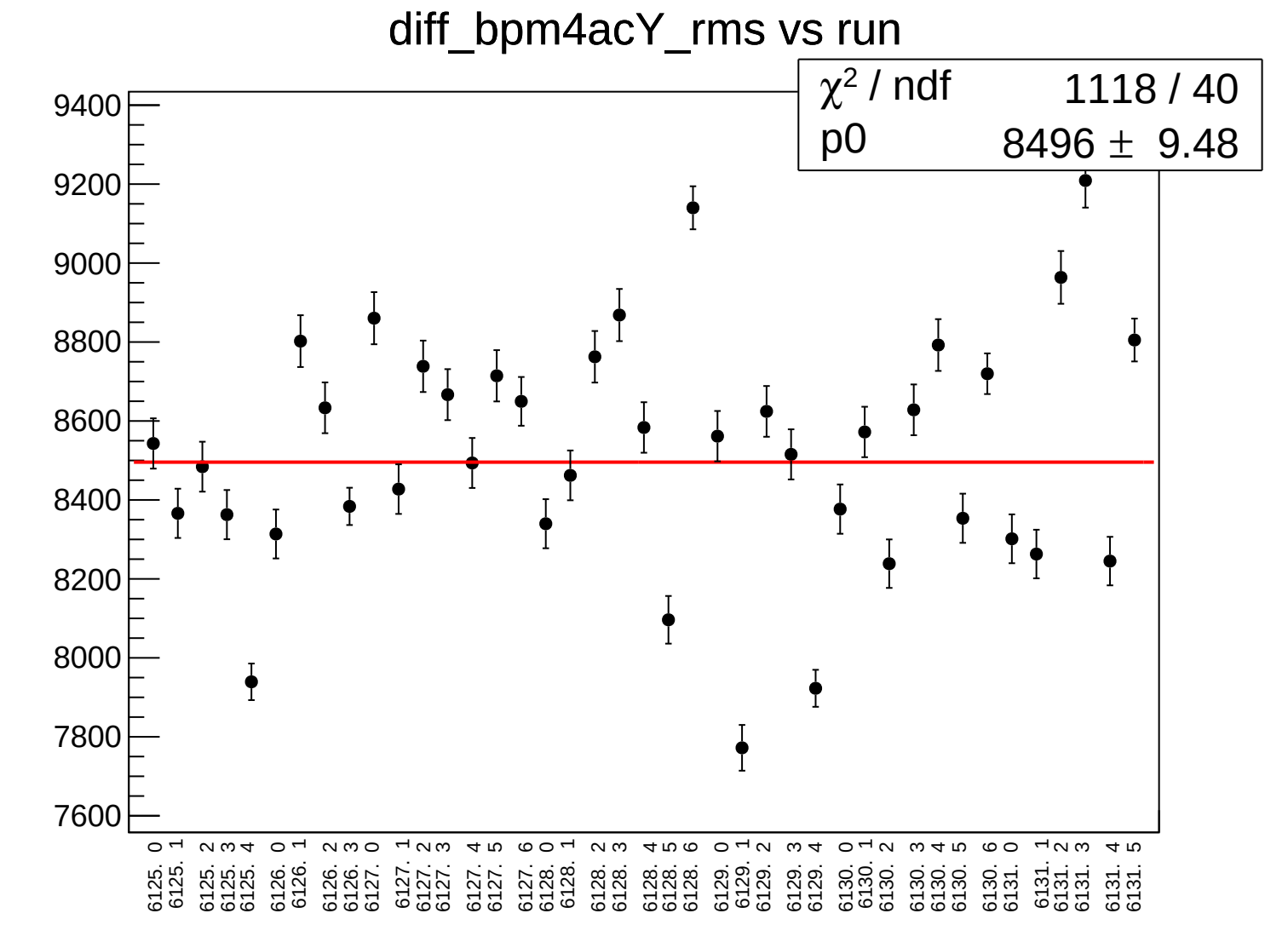

diff_bpm4eY_rms vs run
χ² / ndf 962.4 / 40
p0 8163 ± 9.108
9000
8800
8600
8400
8200
8000
7800
7600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

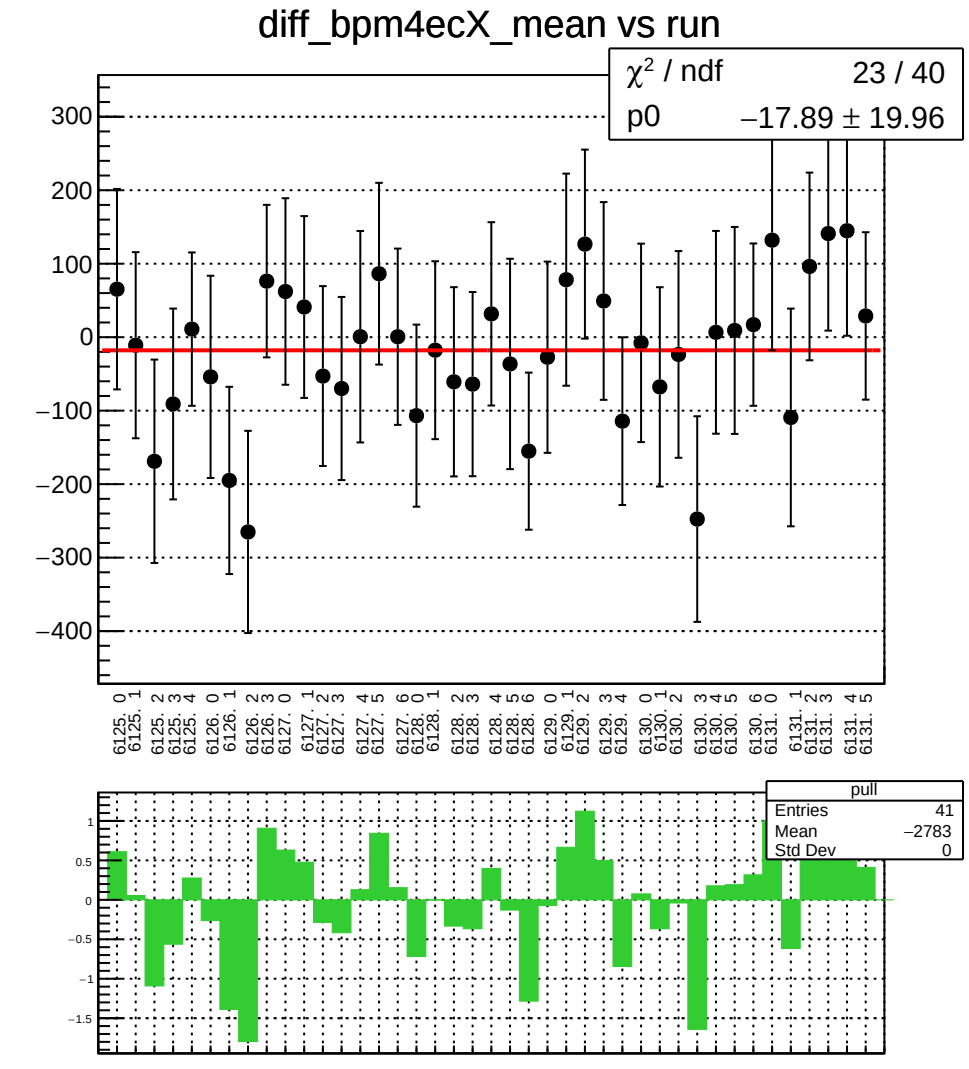

diff_bpm4acX_mean vs run
χ² / ndf 22.36 / 40
p0 −19.21± 23.22
pull
Entries 41
Mean −3.983e+05
Std Dev 0
pull1D
Entries 41
Mean −5.891e−06
Std Dev 0.7386

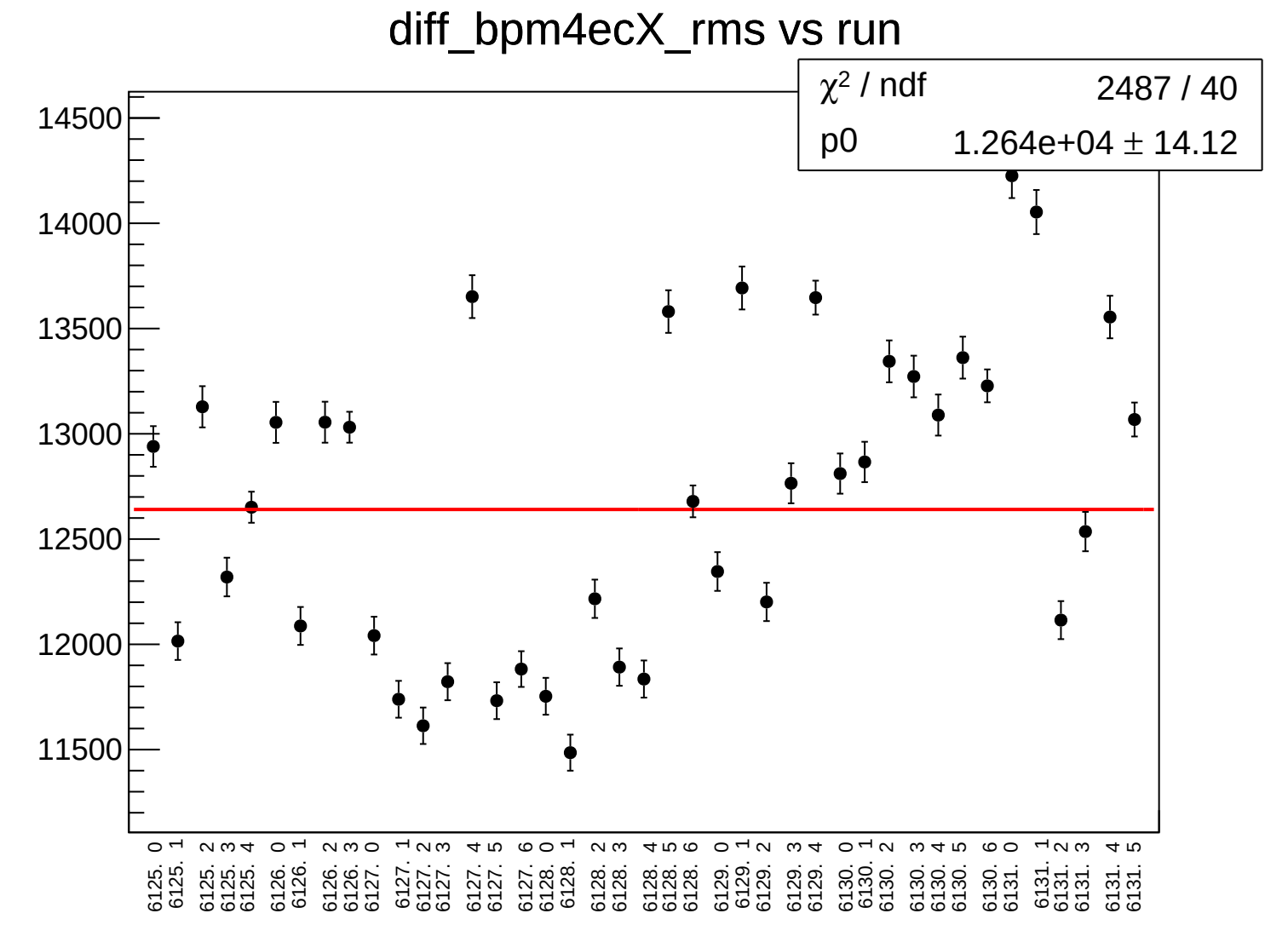

diff_bpm4acX_rms vs run
χ² / ndf 2371 / 40
p0 1.471e+04 ± 16.42
16500
16000
15500
15000
14500
14000
13500
13000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

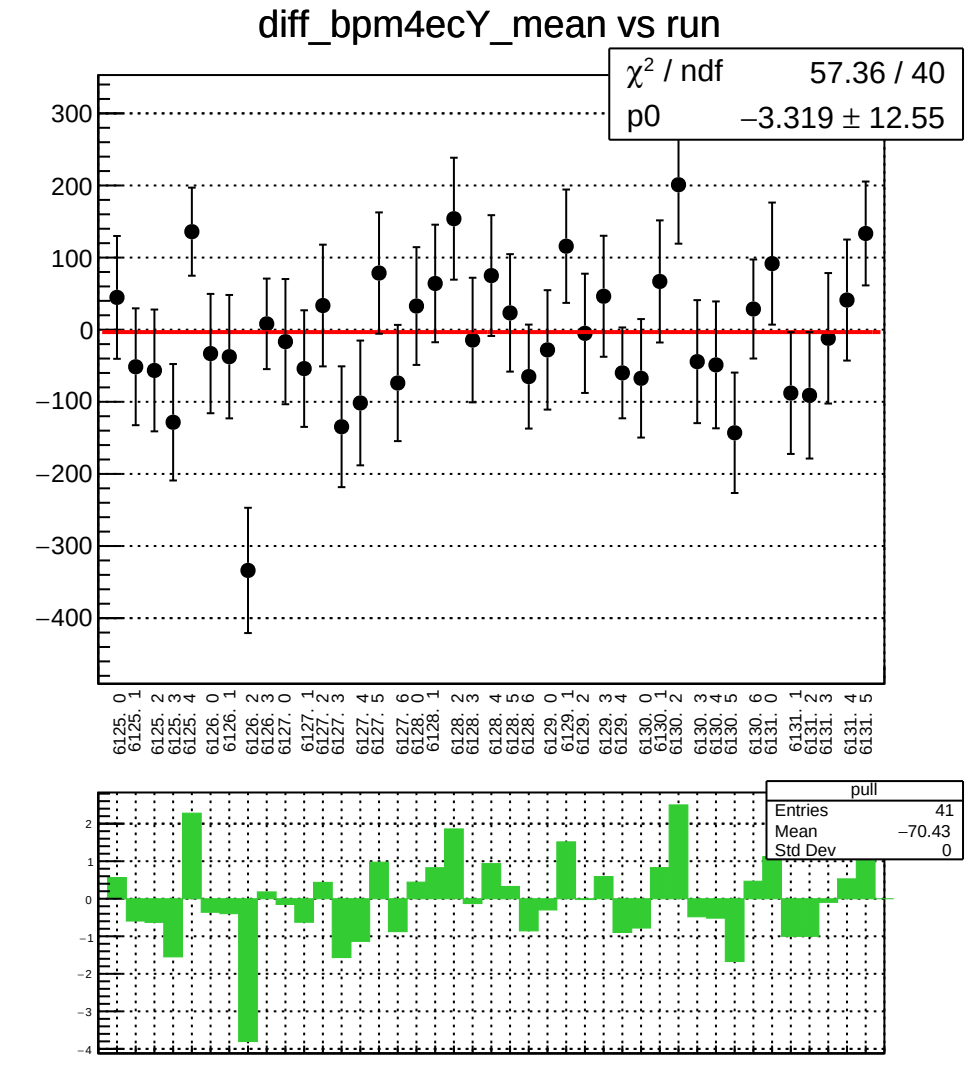

diff_bpm4acY_mean vs run
χ² / ndf 57.92 / 40
p0 −0.7415 ± 13.41
pull
Entries 41
Mean −82.72
Std Dev 0

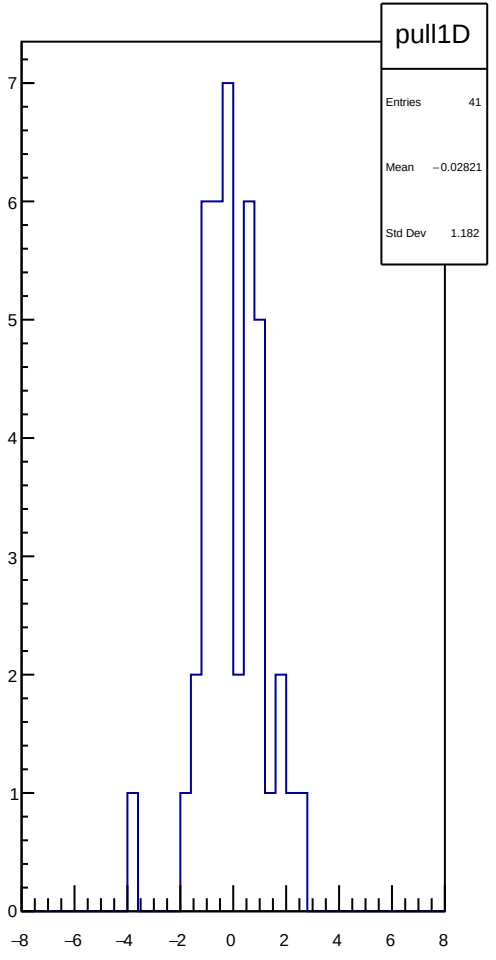

pull1D
Entries 41
Mean −0.02895
Std Dev 1.188

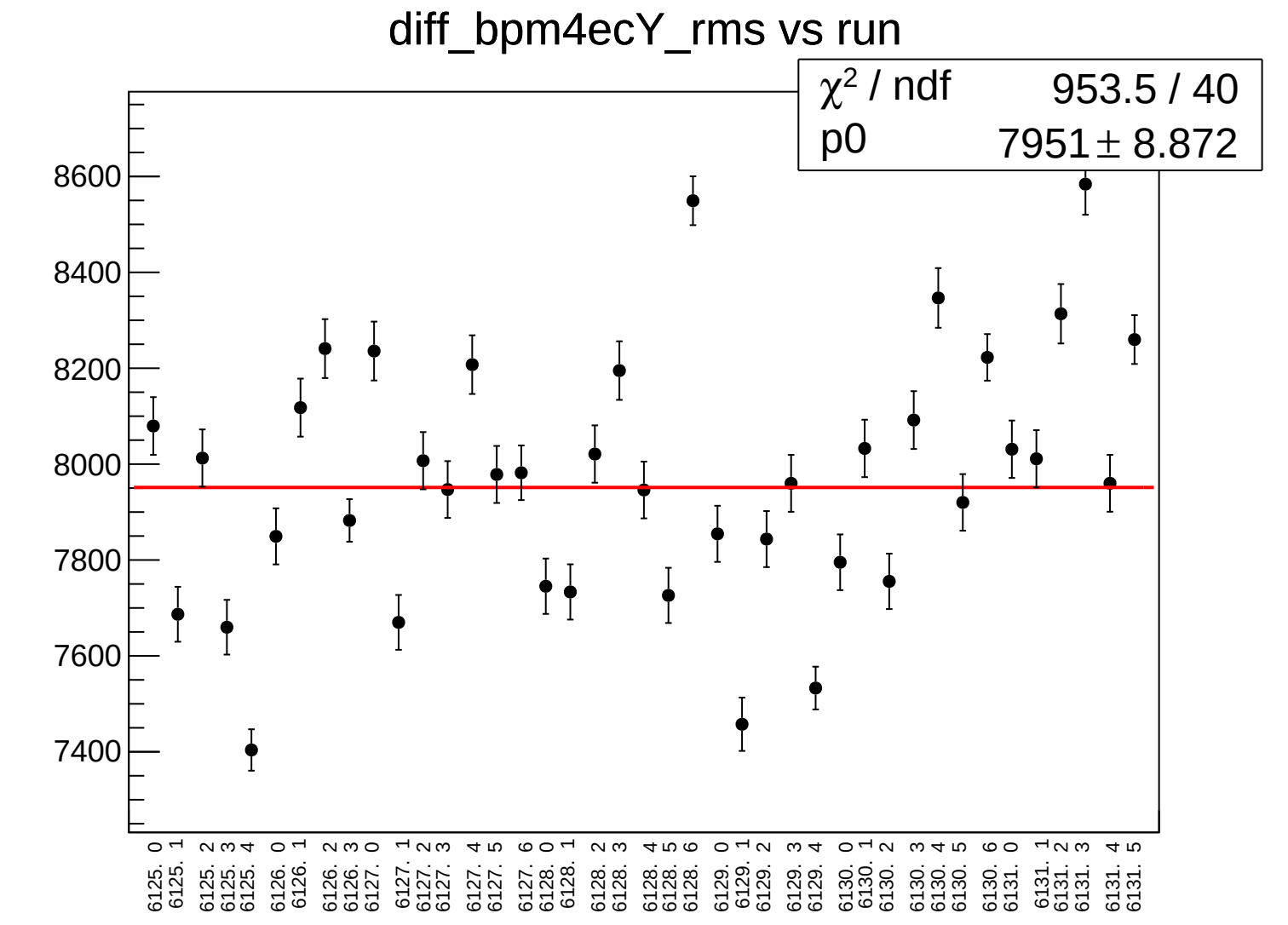

diff_bpm4acY_rms vs run
χ² / ndf 1118 / 40
p0 8496 ± 9.48
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

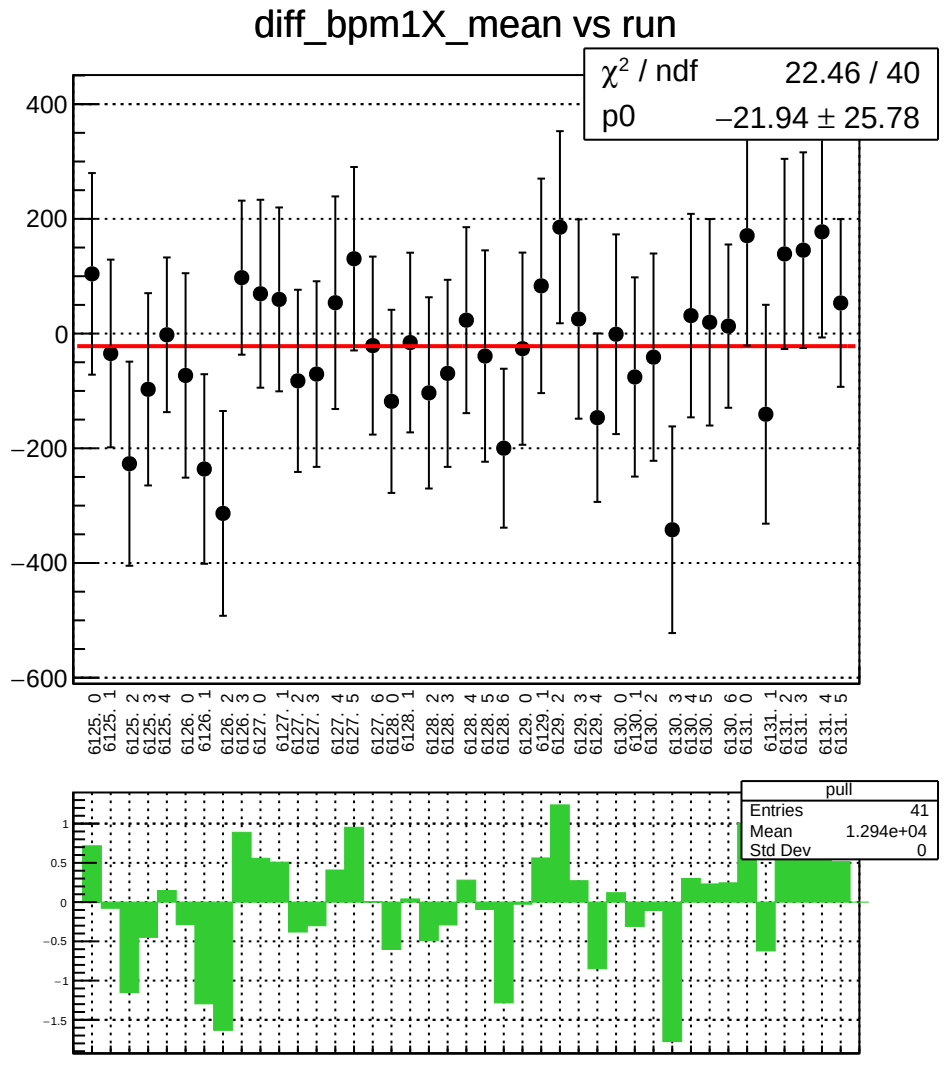

diff_bpm4ecX_mean vs run
χ² / ndf 23 / 40
p0 −17.89 ± 19.96
300
200
100
0
−100
−200
−300
−400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −2783
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.0008782
Std Dev 0.7489
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

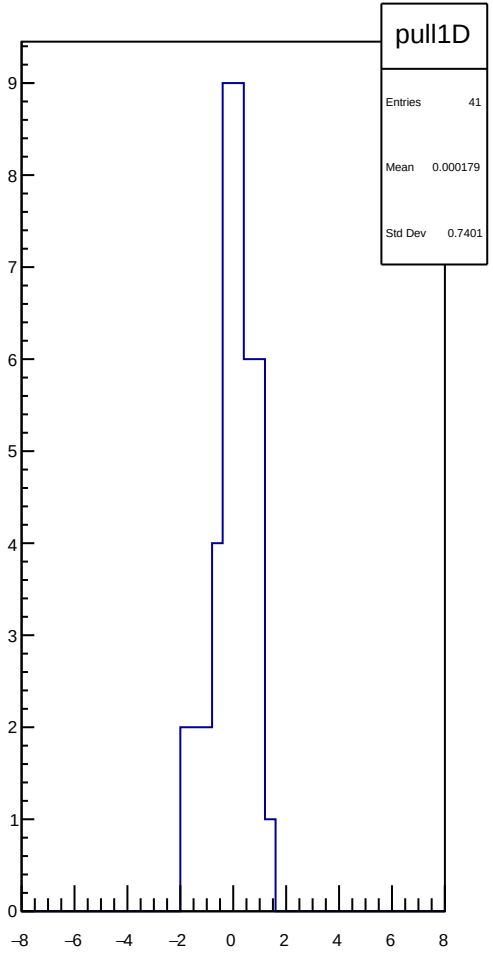

diff_bpm4ecX_rms vs run
χ² / ndf 2487 / 40
p0 1.264e+04 ± 14.12
14500
14000
13500
13000
12500
12000
11500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

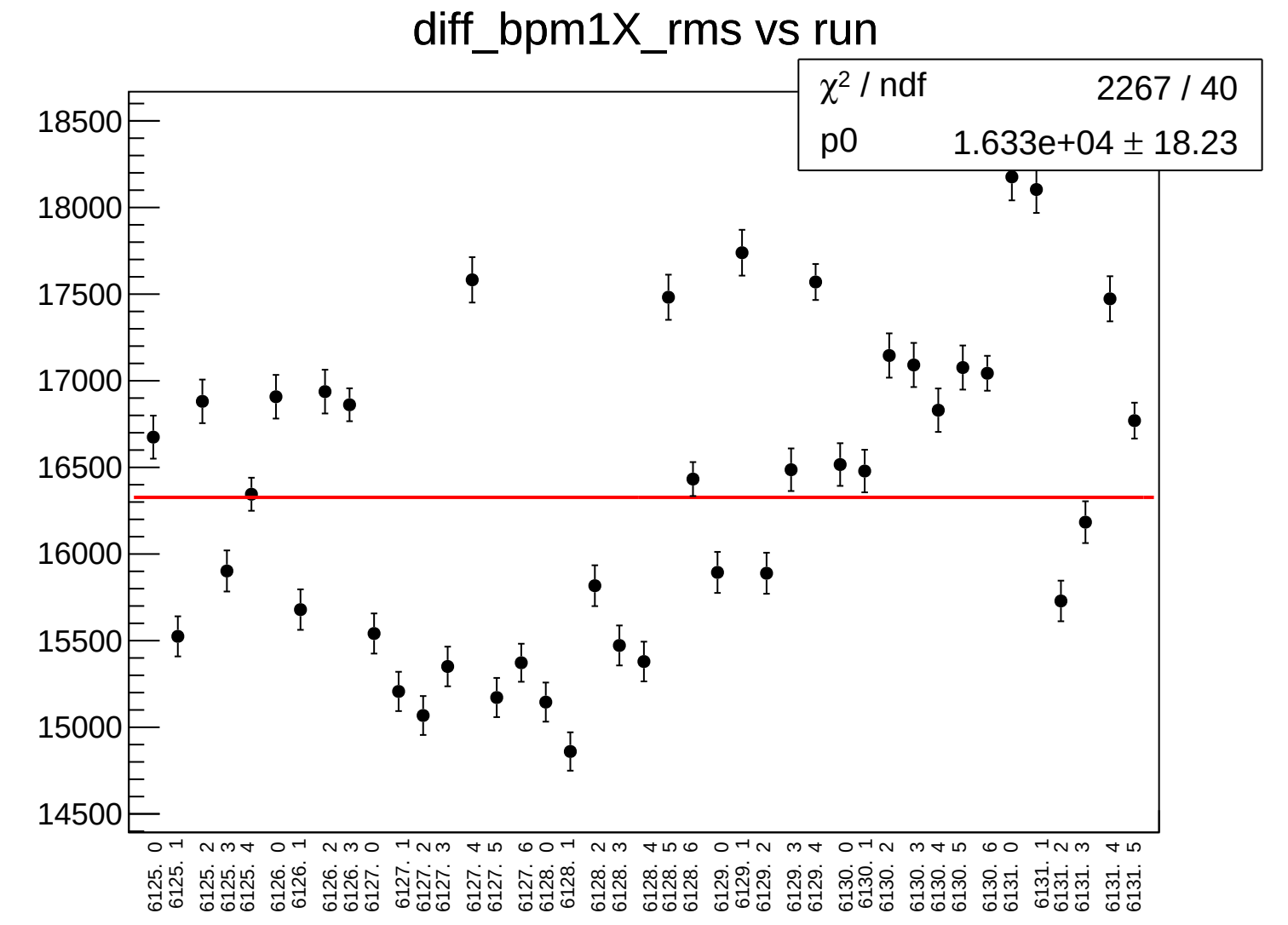

diff_bpm4ecY_mean vs run
χ² / ndf 57.36 / 40
p0 −3.319 ± 12.55
pull
Entries 41
Mean −70.43
Std Dev 0

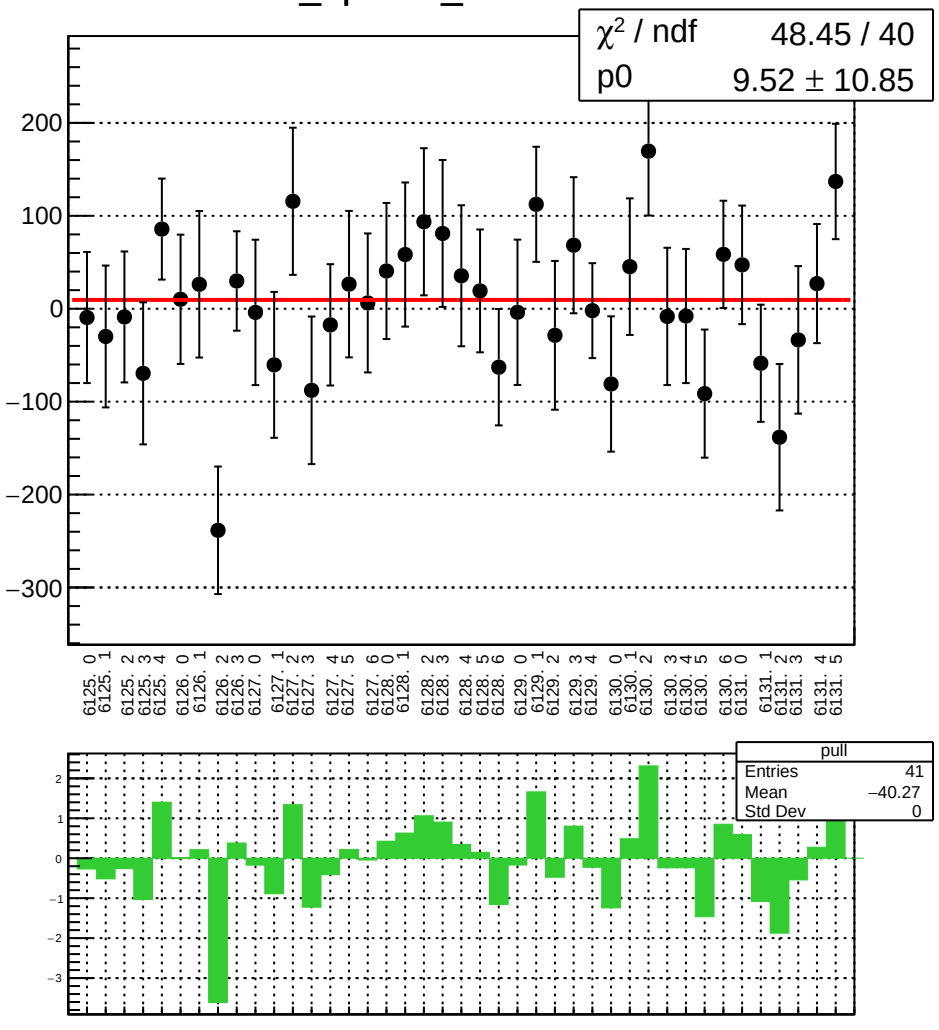

pull1D
Entries 41
Mean −0.02821
Std Dev 1.182

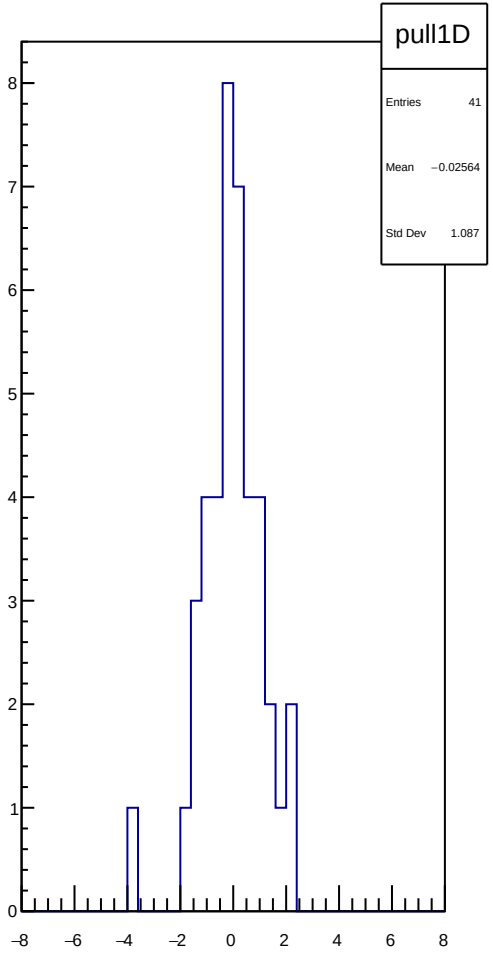

diff_bpm4ecY_rms vs run
χ² / ndf 953.5 / 40
p0 7951 ± 8.872
8600
8400
8200
8000
7800
7600
7400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

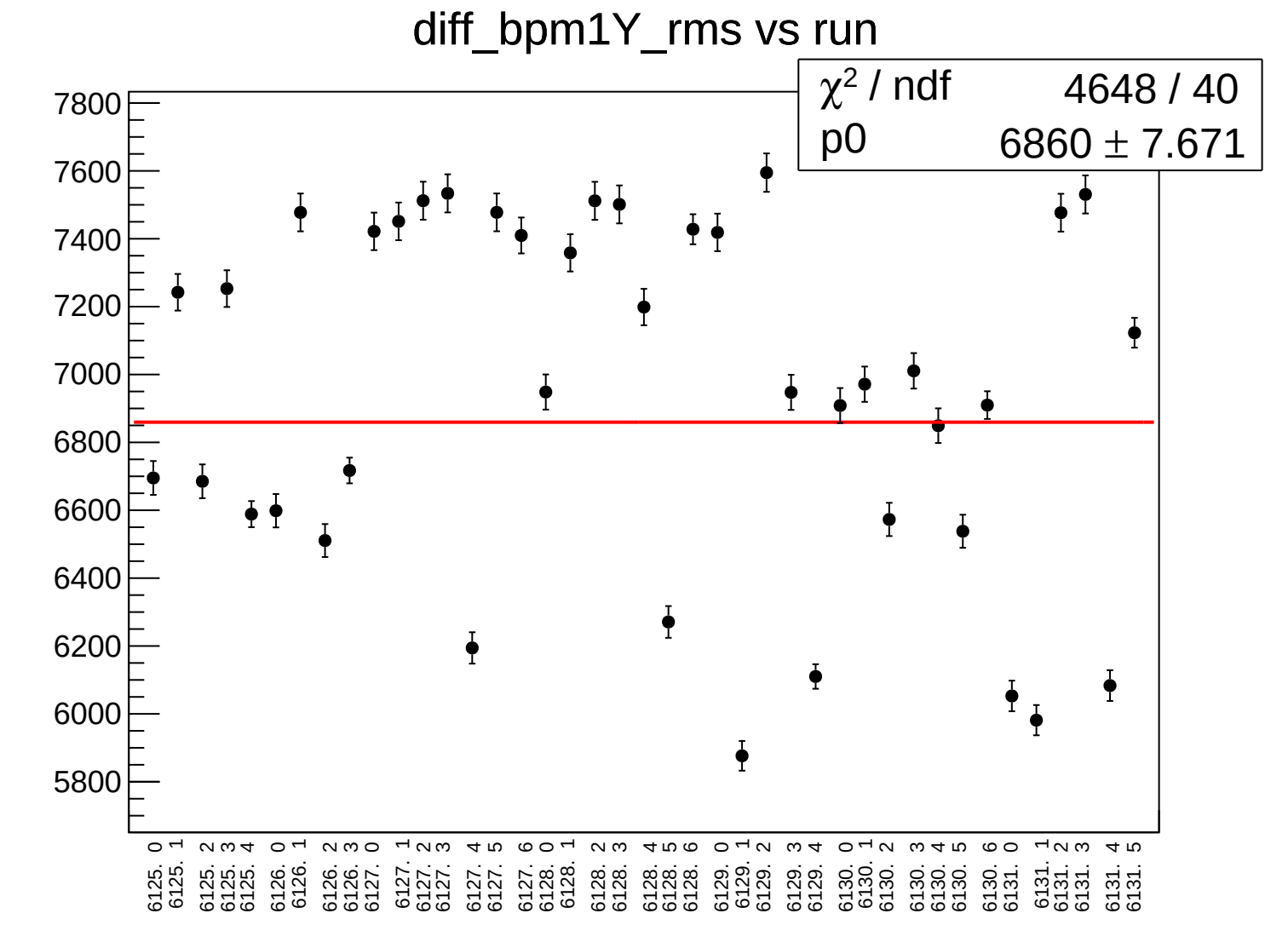

diff_bpm1X_mean vs run
χ² / ndf 22.46 / 40
p0 −21.94 ± 25.78
400
200
0
−200
−400
−600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1.294e+04
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

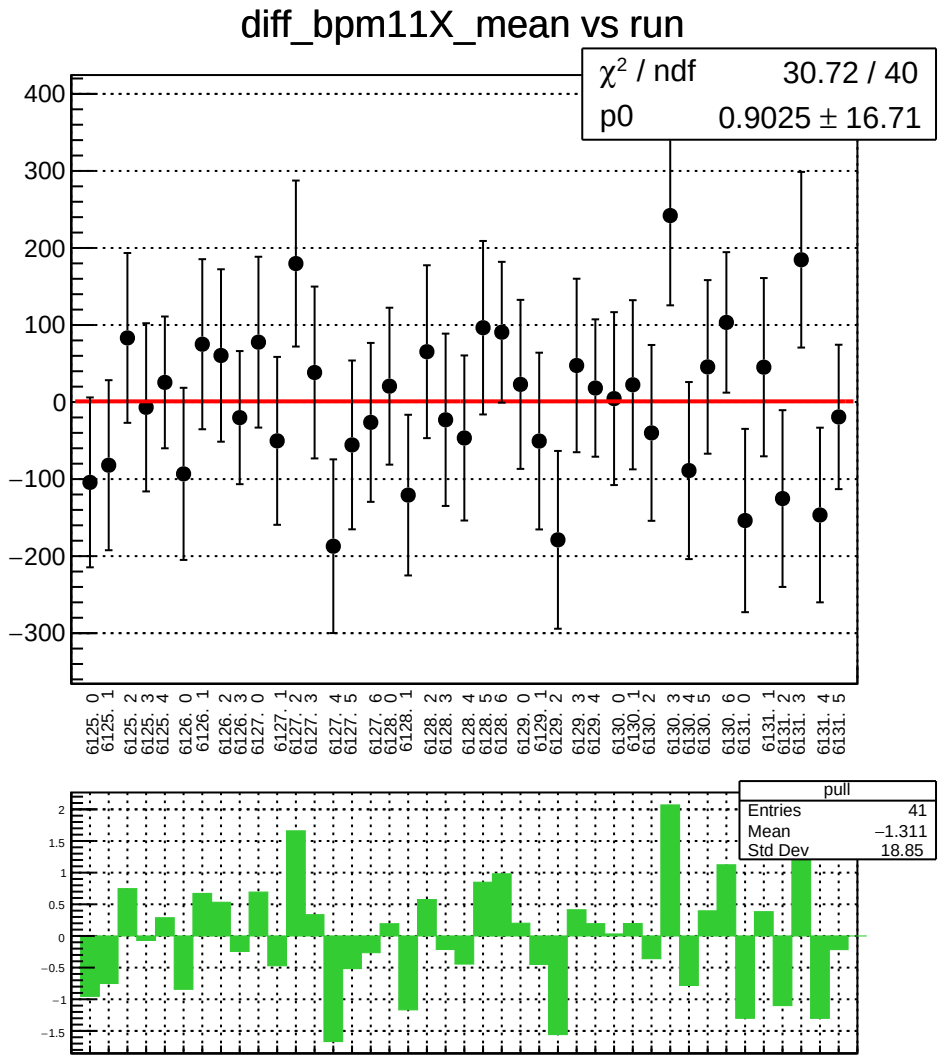

pull1D
Entries 41
Mean 0.000179
Std Dev 0.7401
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

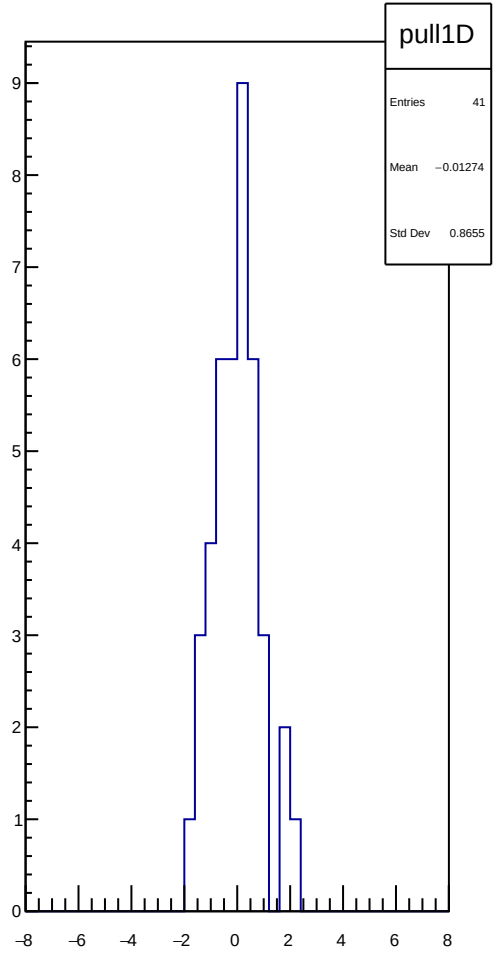

diff_bpm1X_rms vs run
χ² / ndf 2267 / 40
p0 1.633e+04 ± 18.23
18500
18000
17500
17000
16500
16000
15500
15000
14500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

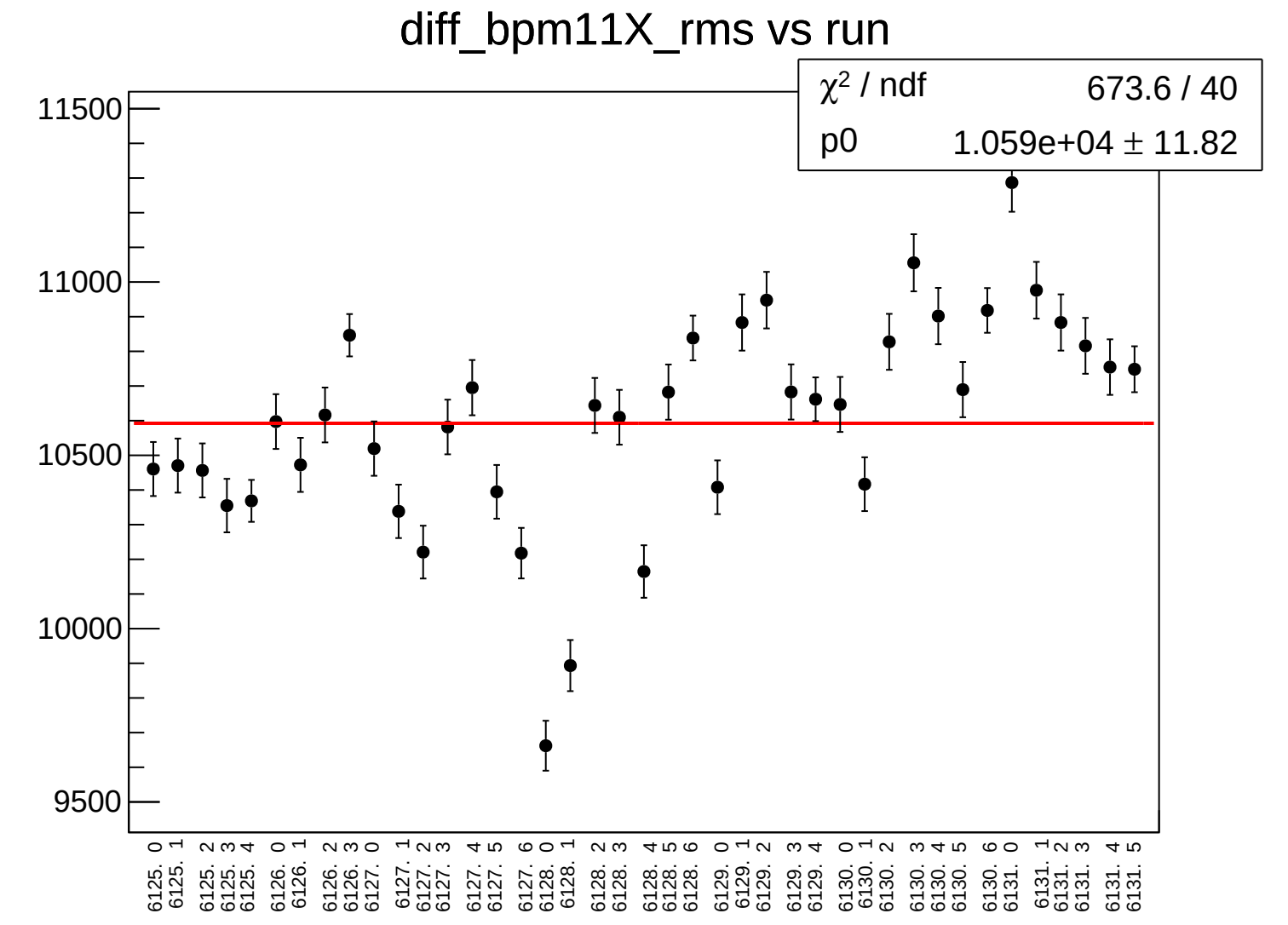

diff_bpm1Y_mean vs run
χ² / ndf 48.45 / 40
p0 9.52 ± 10.85
200
100
0
−100
−200
−300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −40.27
Std Dev 0
2
1
0
−1
−2
−3

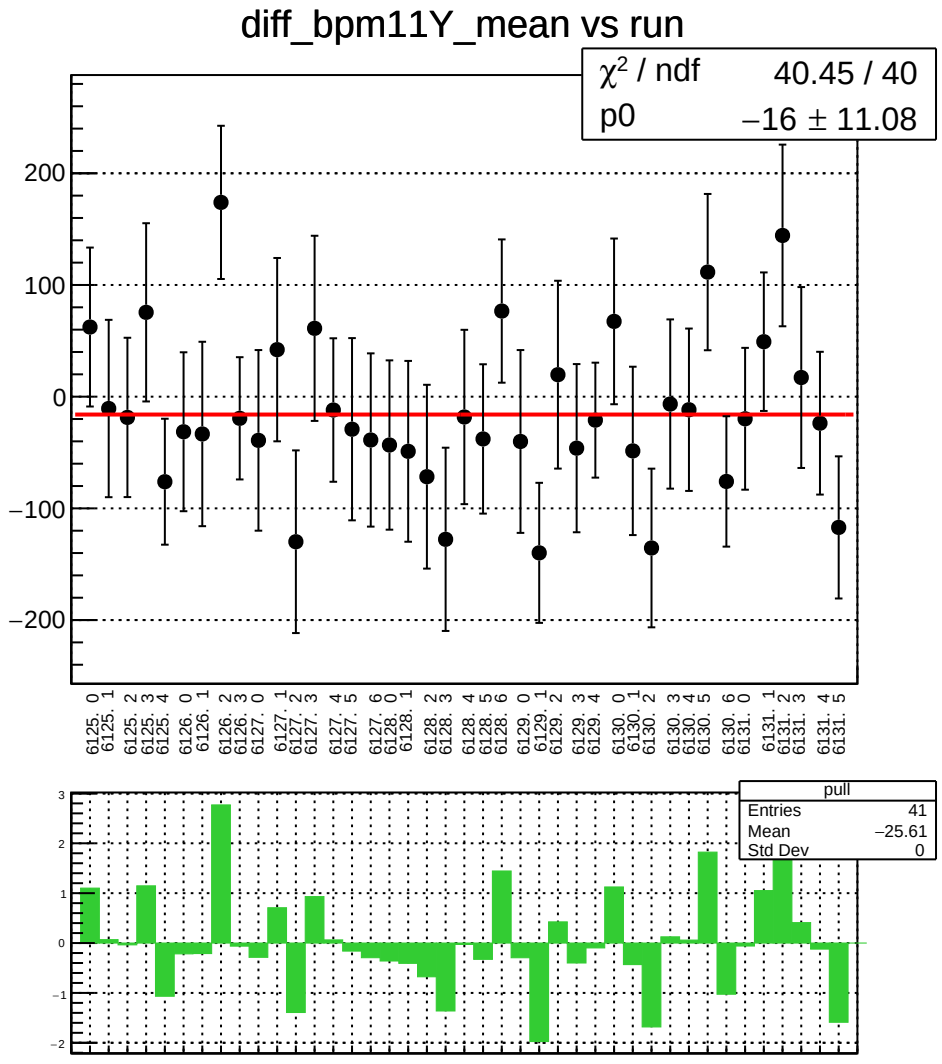

pull1D
Entries 41
Mean −0.02564
Std Dev 1.087
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

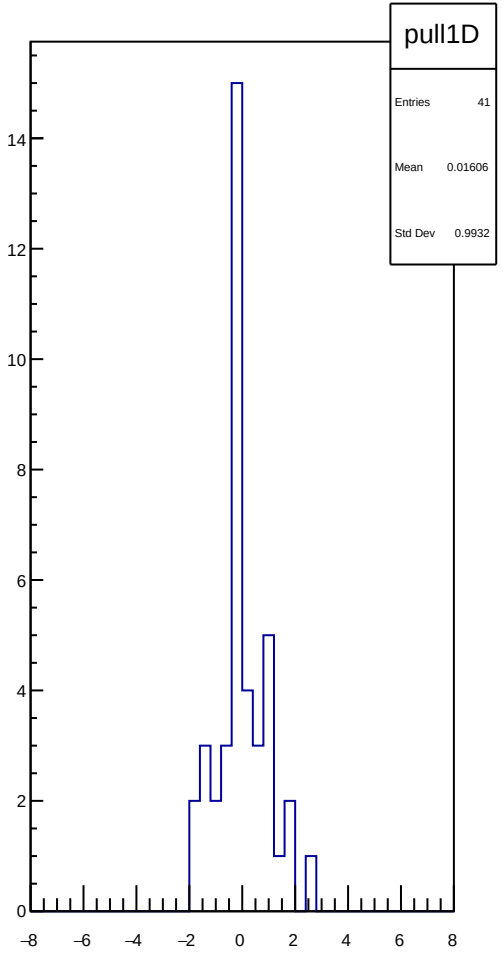

diff_bpm1Y_rms vs run
χ² / ndf 4648 / 40
p0 6860 ± 7.671
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

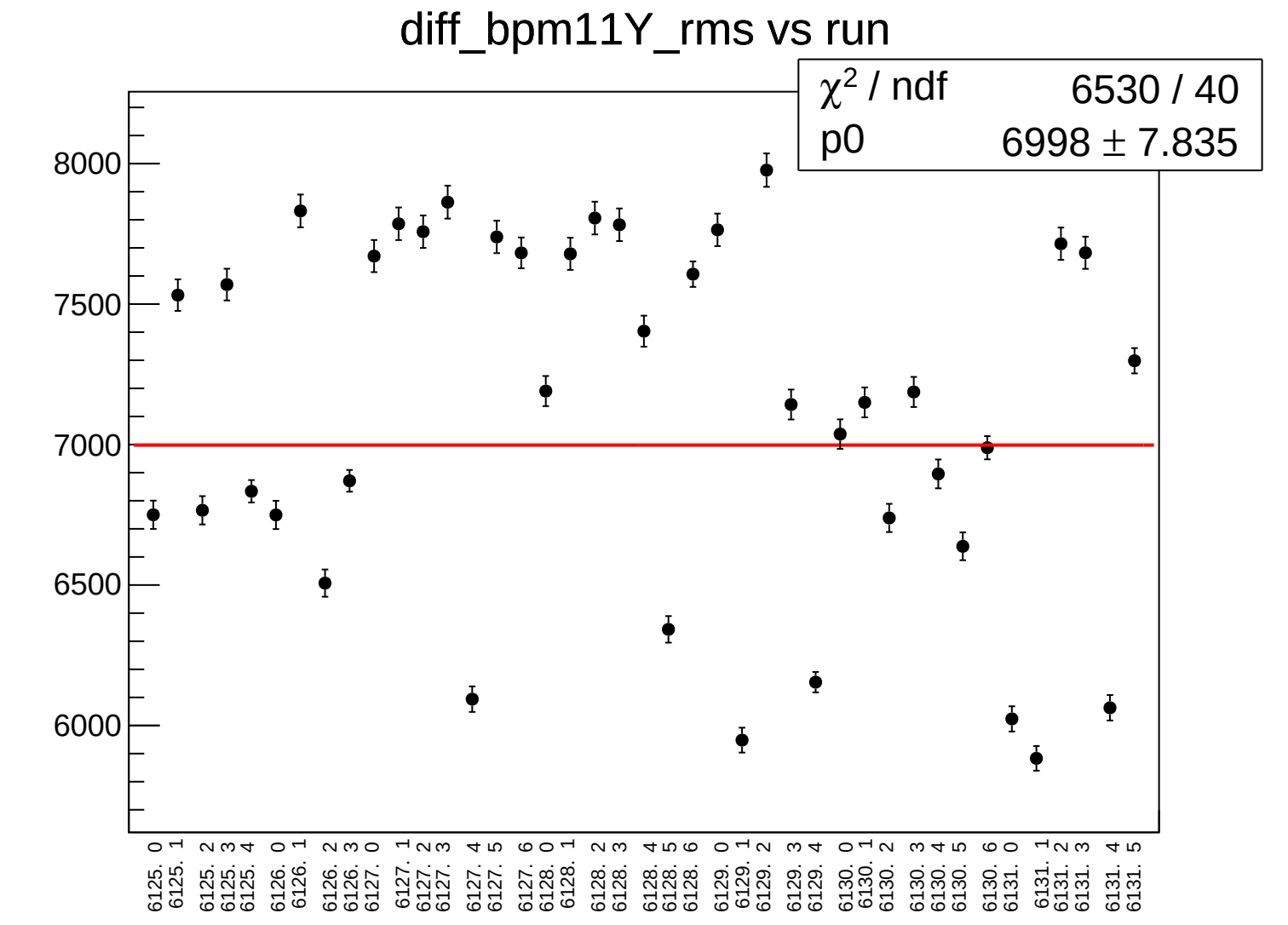

diff_bpm11X_mean vs run
χ² / ndf 30.72 / 40
p0 0.9025 ± 16.71
pull
Entries 41
Mean −1.311
Std Dev 18.85

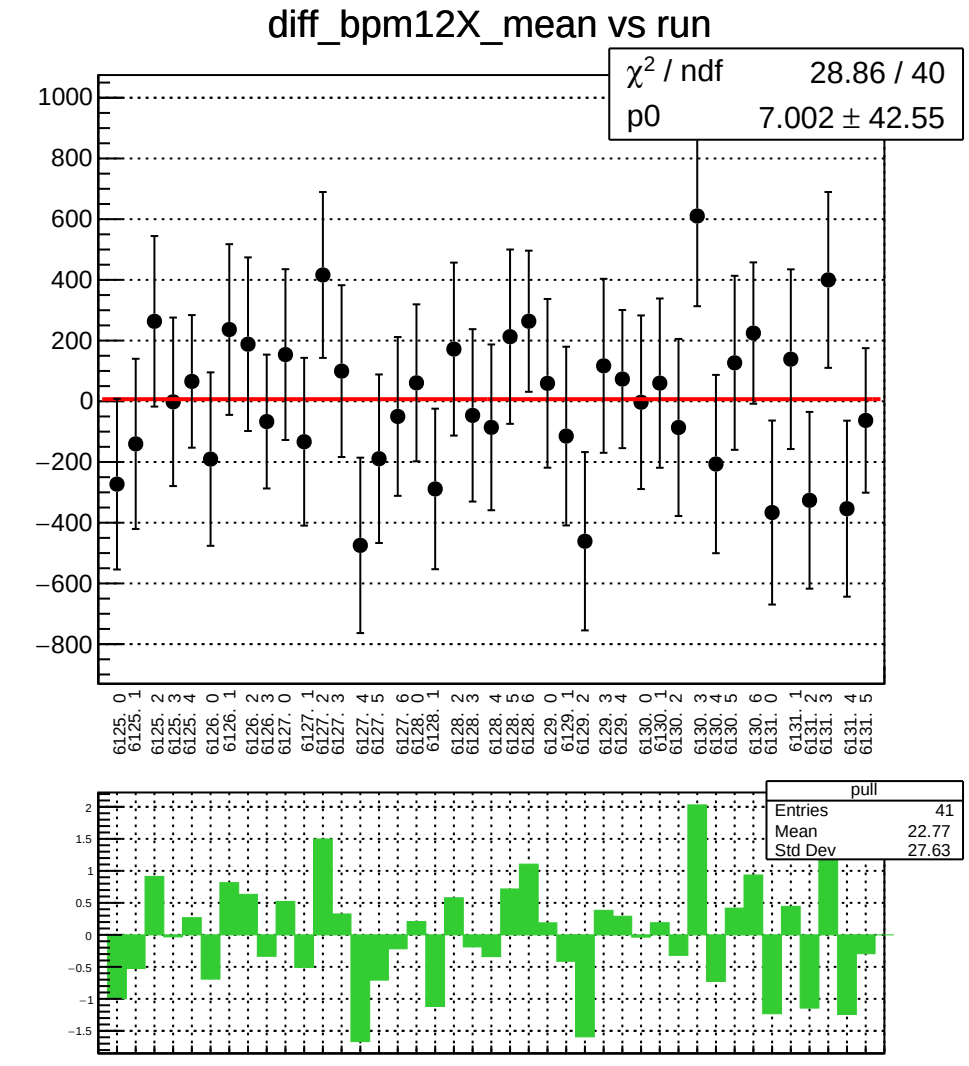

pull1D
Entries 41
Mean −0.01274
Std Dev 0.8655

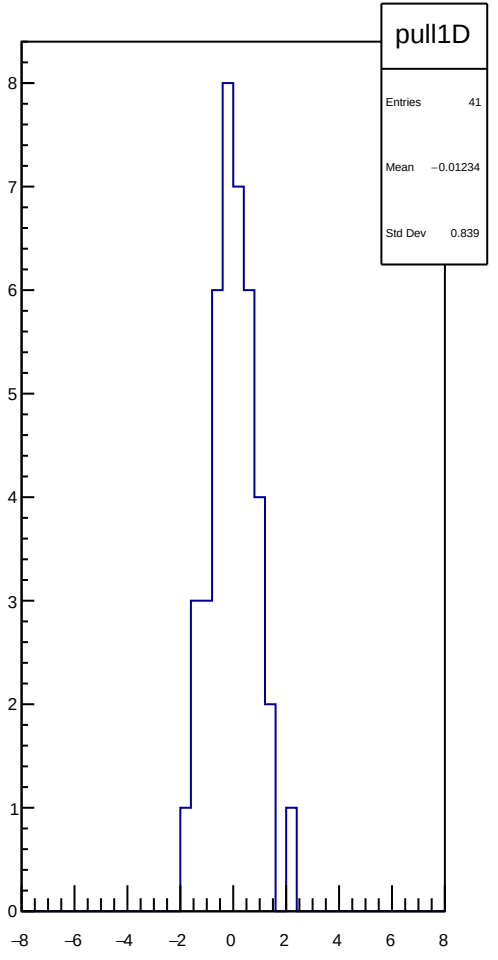

diff_bpm11X_rms vs run
χ² / ndf 673.6 / 40
p0 1.059e+04 ± 11.82
11500
11000
10500
10000
9500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

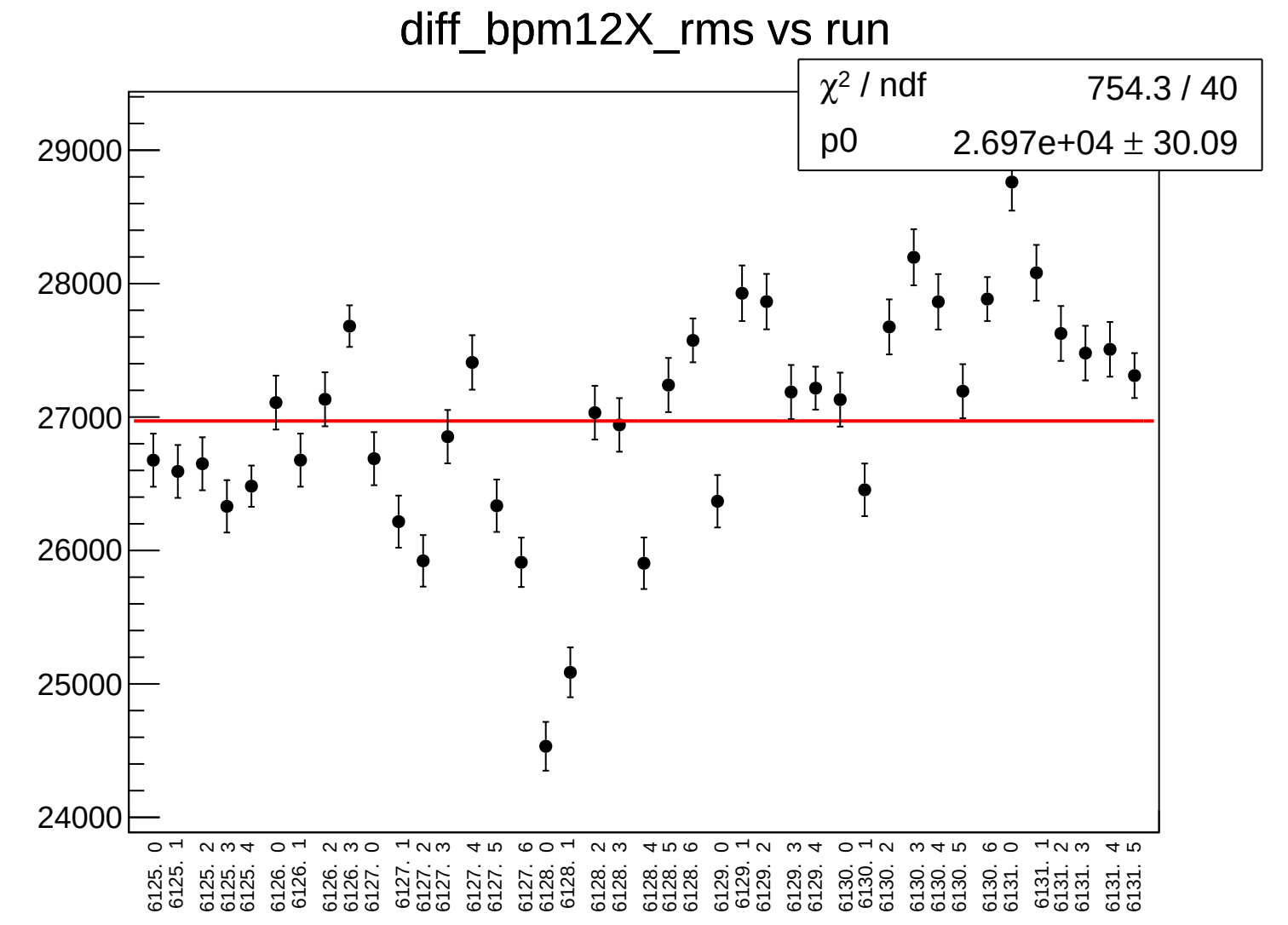

diff_bpm11Y_mean vs run
χ² / ndf 40.45 / 40
p0 −16 ± 11.08
200
100
0
−100
−200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −25.61
Std Dev 0
3
2
1
0
−1
−2

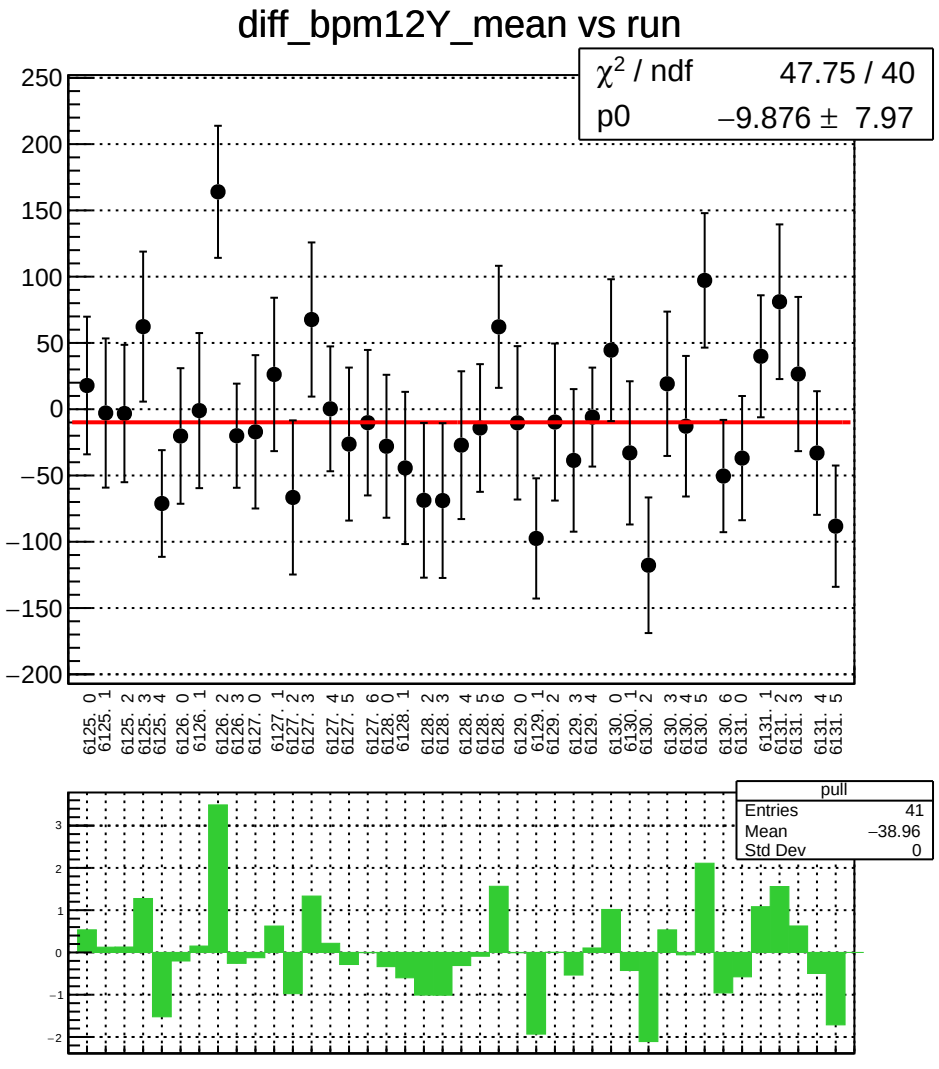

pull1D
Entries 41
Mean 0.01606
Std Dev 0.9932
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

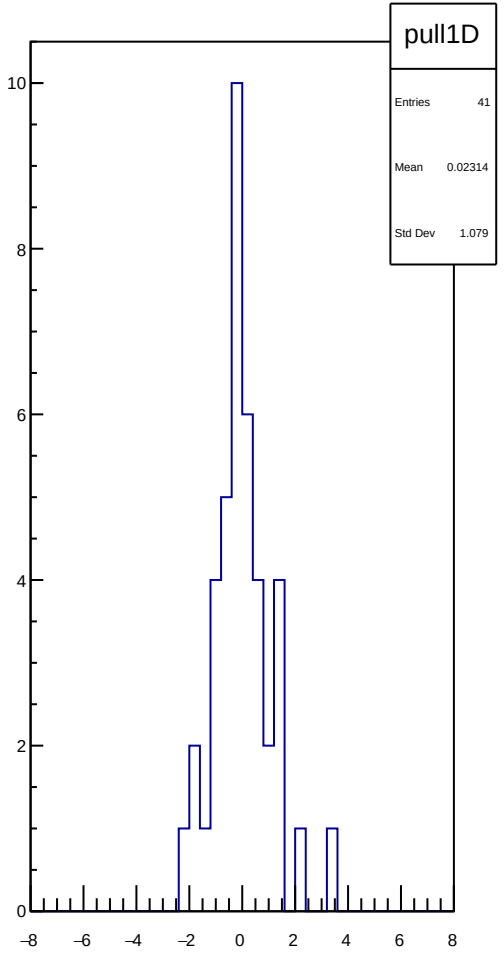

diff_bpm11Y_rms vs run
χ² / ndf 6530 / 40
p0 6998 ± 7.835
8000
7500
7000
6500
6000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

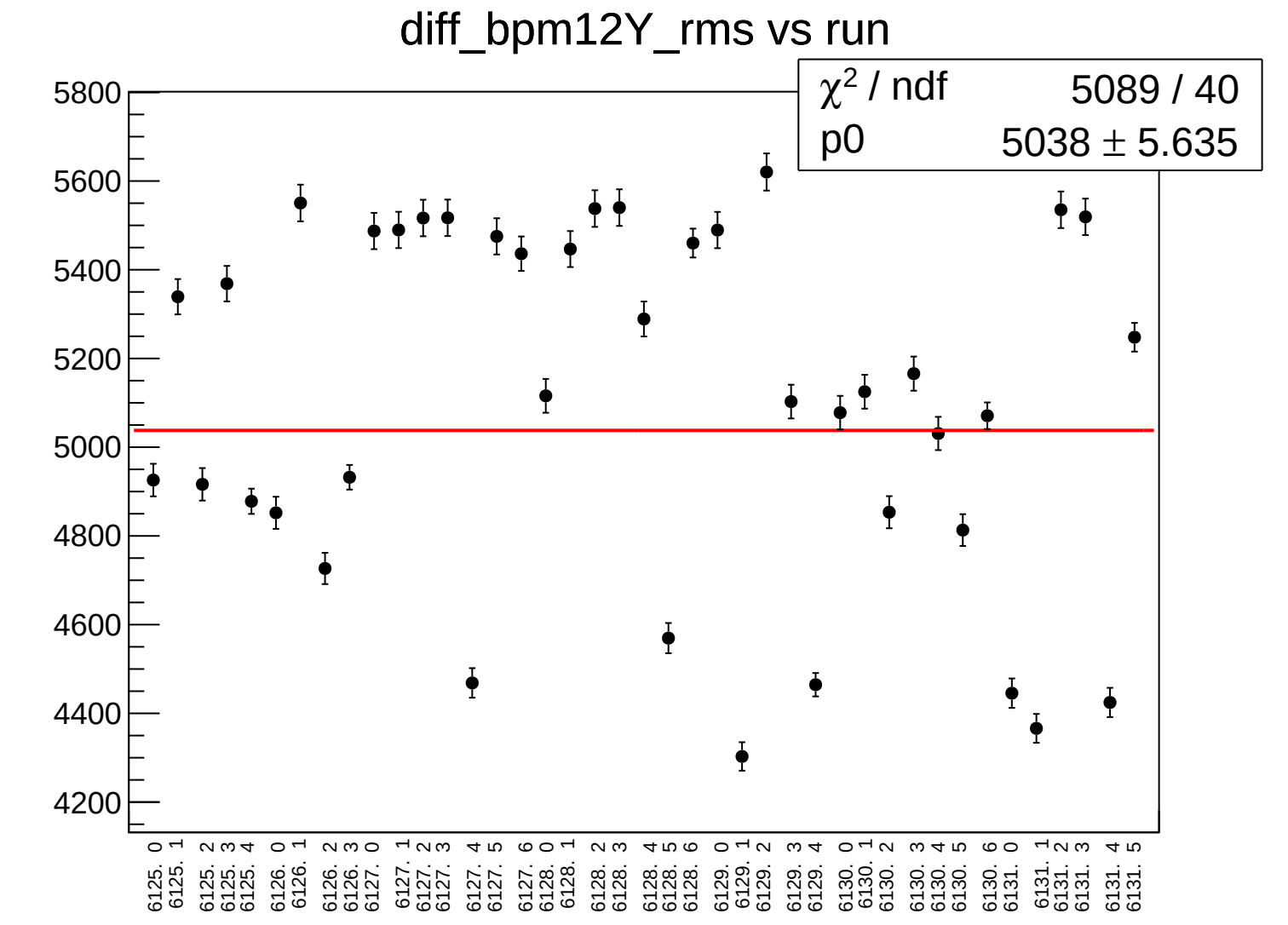

diff_bpm12X_mean vs run
χ² / ndf 28.86 / 40
p0 7.002 ± 42.55
1000
800
600
400
200
0
−200
−400
−600
−800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 22.77
Std Dev 27.63
2
1.5
1
0.5
0
−0.5
−1
−1.5

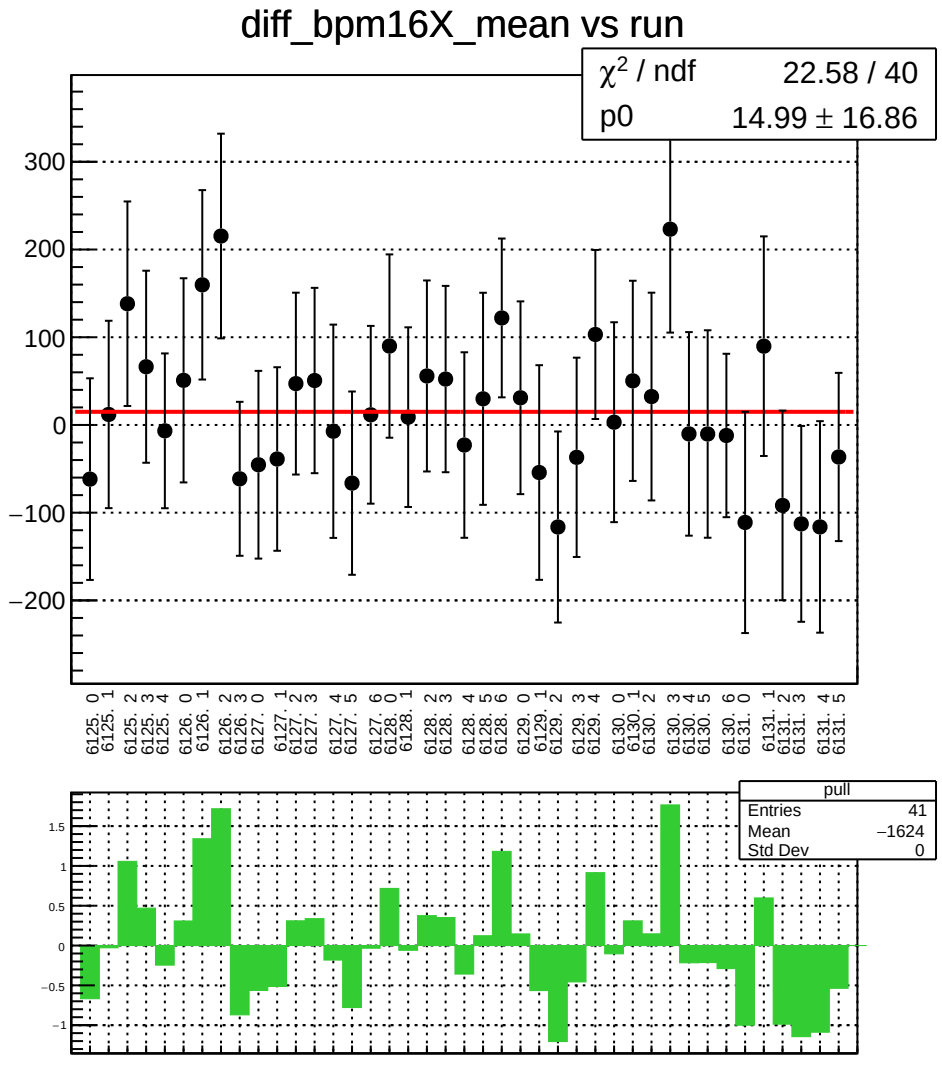

pull1D
Entries 41
Mean −0.01234
Std Dev 0.839
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

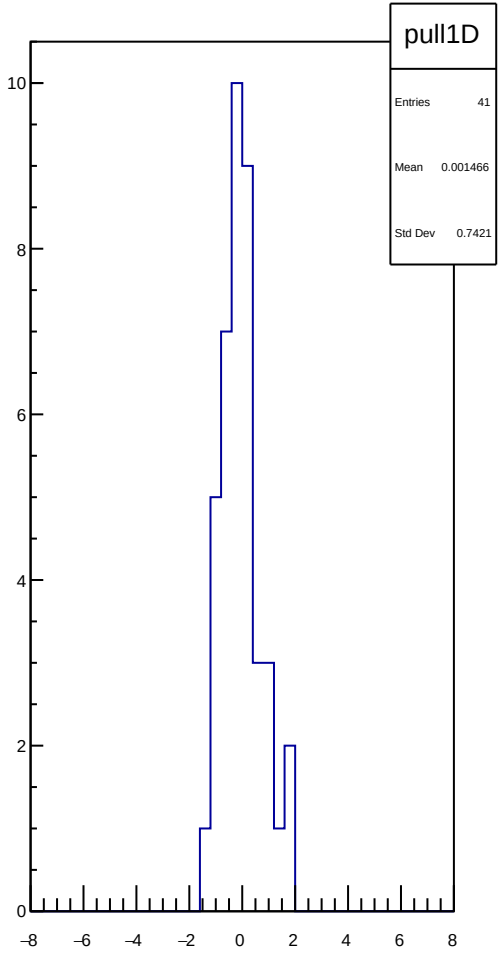

diff_bpm12X_rms vs run
χ² / ndf 754.3 / 40
p0 2.697e+04 ± 30.09
29000
28000
27000
26000
25000
24000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

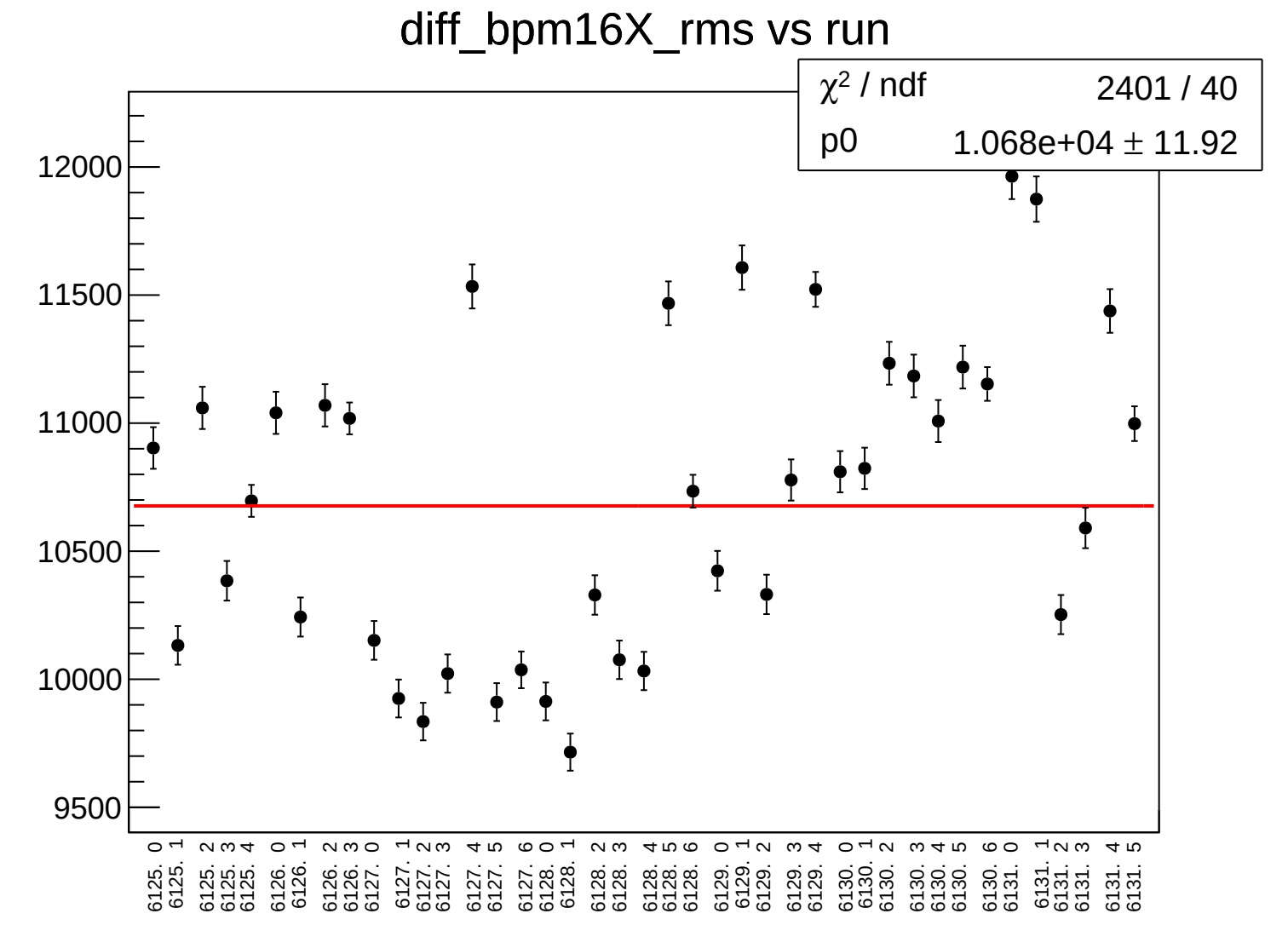

diff_bpm12Y_mean vs run
χ² / ndf 47.75 / 40
p0 −9.876 ± 7.97
pull
Entries 41
Mean −38.96
Std Dev 0

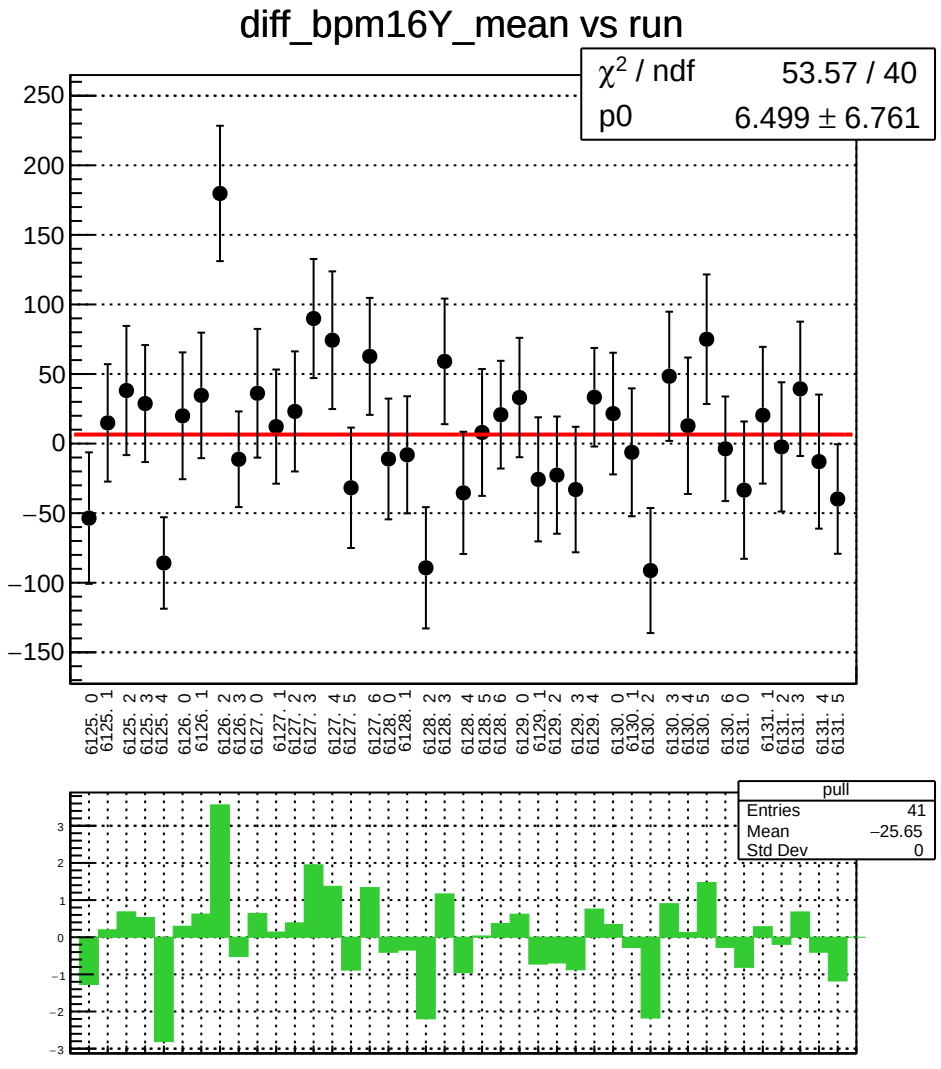

pull1D
Entries 41
Mean 0.02314
Std Dev 1.079

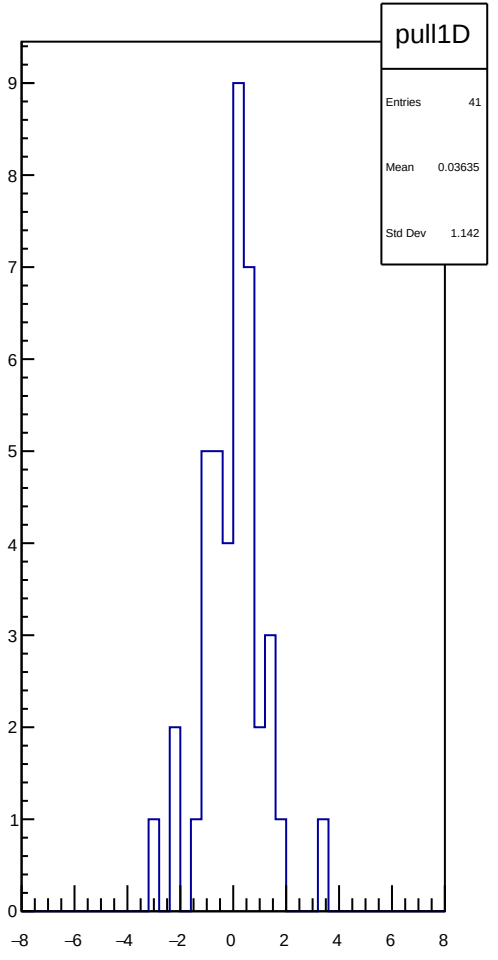

diff_bpm12Y_rms vs run
χ² / ndf 5089 / 40
p0 5038 ± 5.635
5800
5600
5400
5200
5000
4800
4600
4400
4200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

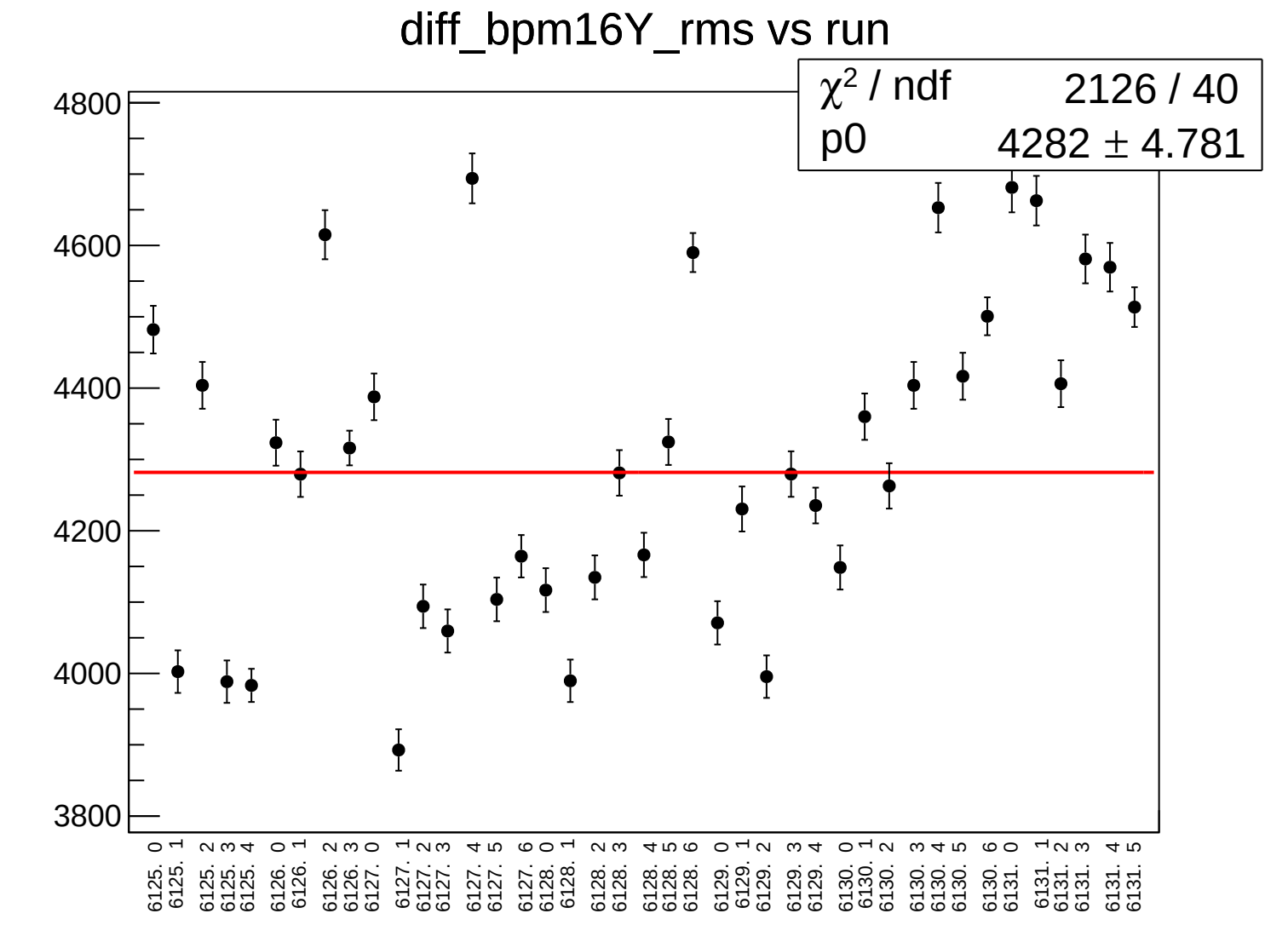

diff_bpm16X_mean vs run
χ² / ndf 22.58 / 40
p0 14.99 ± 16.86
300
200
100
0
−100
−200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1624
Std Dev 0
1.5
1
0.5
0
−0.5
−1

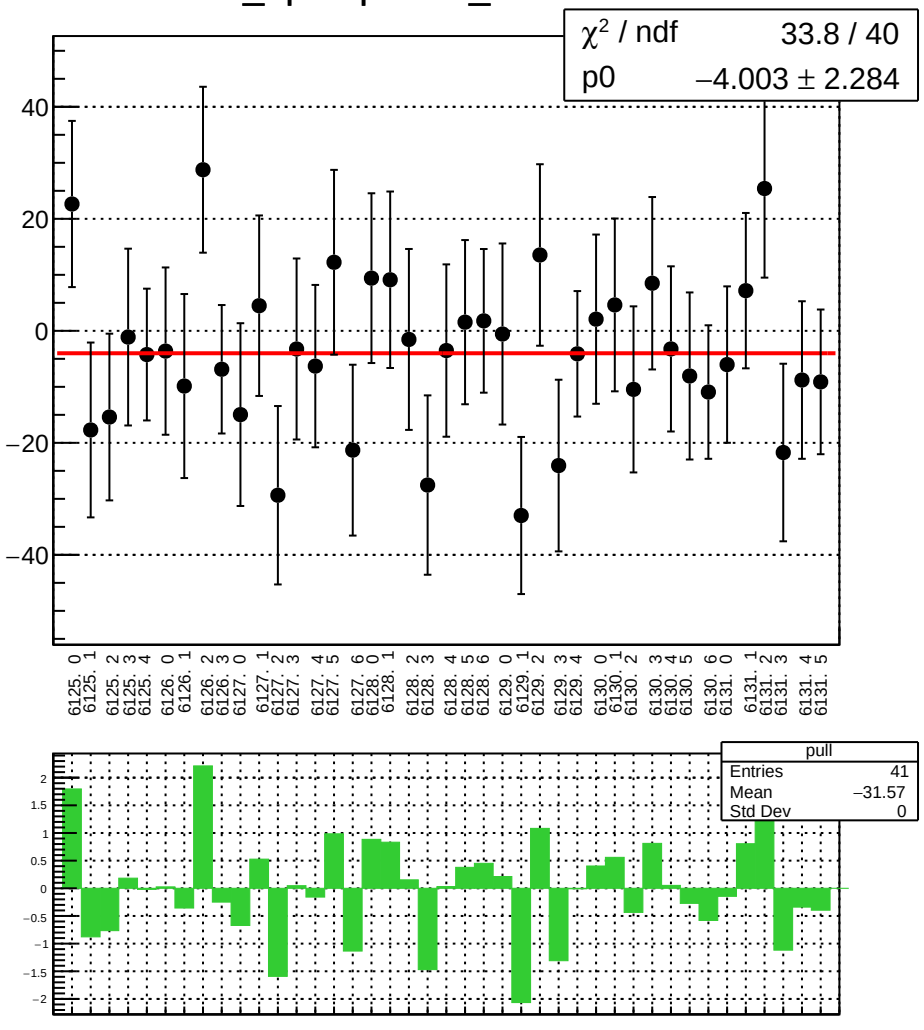

pull1D
Entries 41
Mean 0.001466
Std Dev 0.7421
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

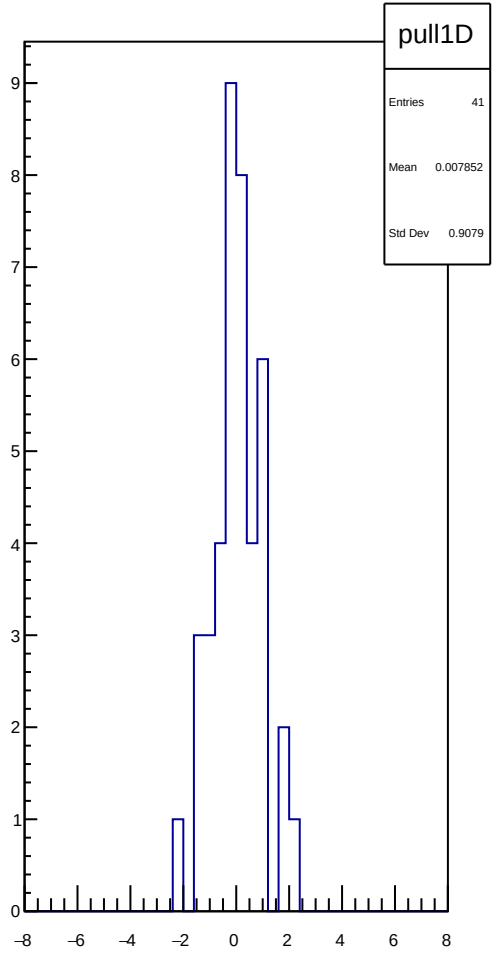

diff_bpm16X_rms vs run
χ² / ndf 2401 / 40
p0 1.068e+04 ± 11.92
12000
11500
11000
10500
10000
9500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

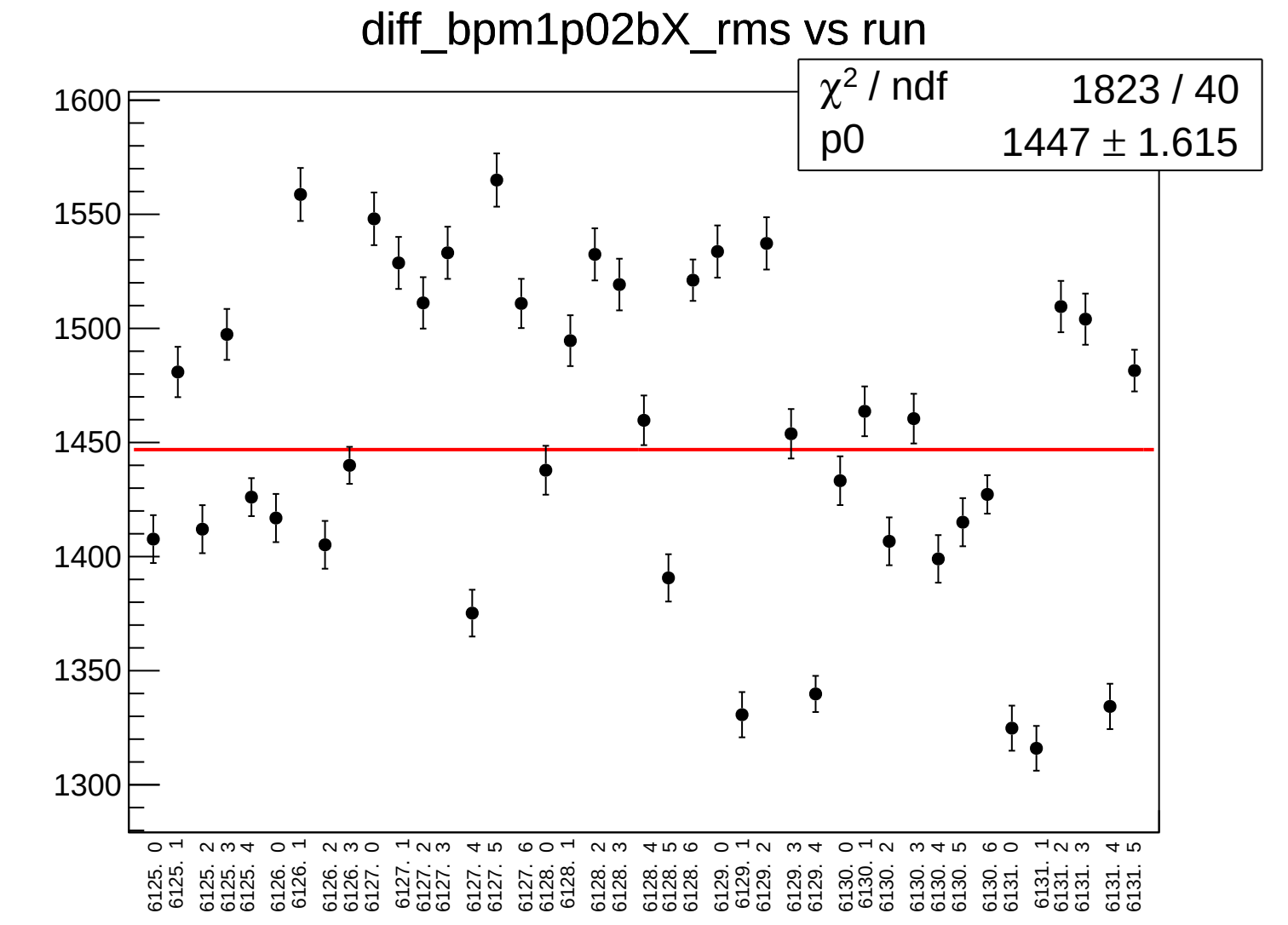

diff_bpm16Y_mean vs run
χ² / ndf 53.57 / 40
p0 6.499 ± 6.761
250
200
150
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −25.65
Std Dev 0
3
2
1
0
−1
−2
−3

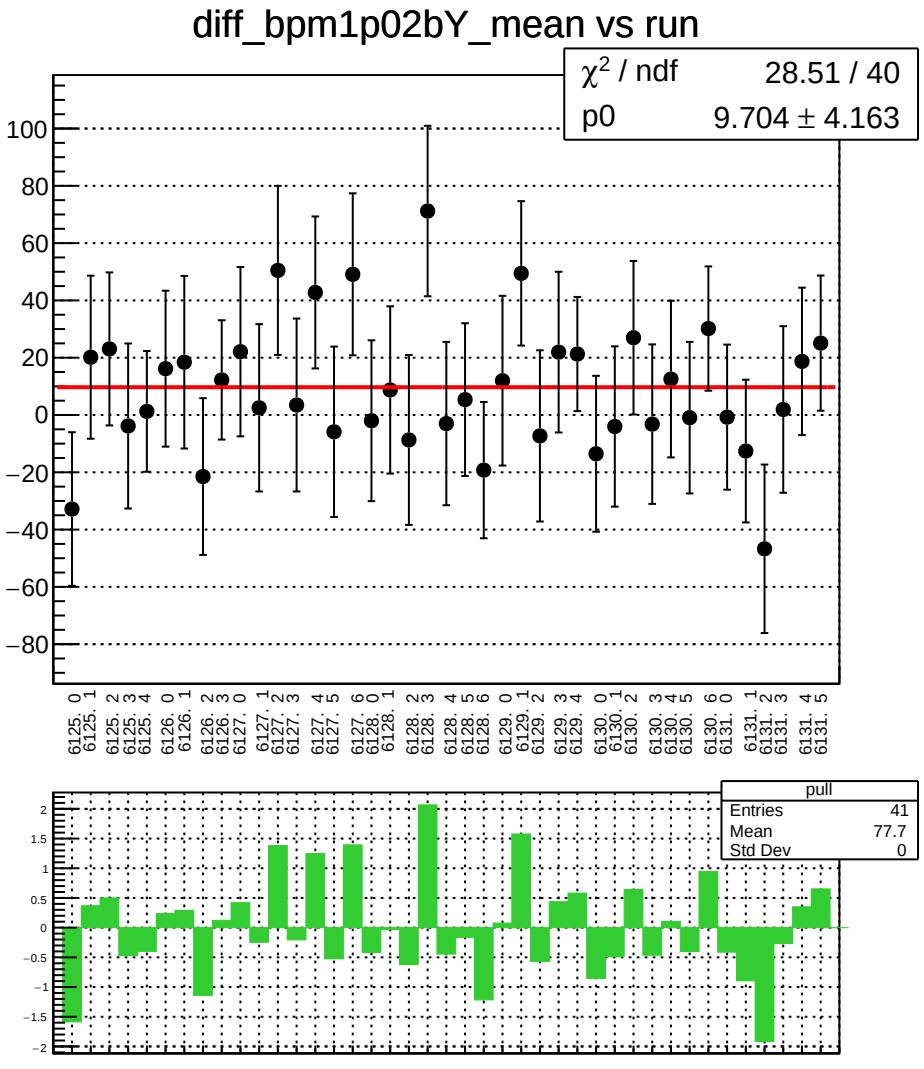

pull1D
Entries 41
Mean 0.03635
Std Dev 1.142
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

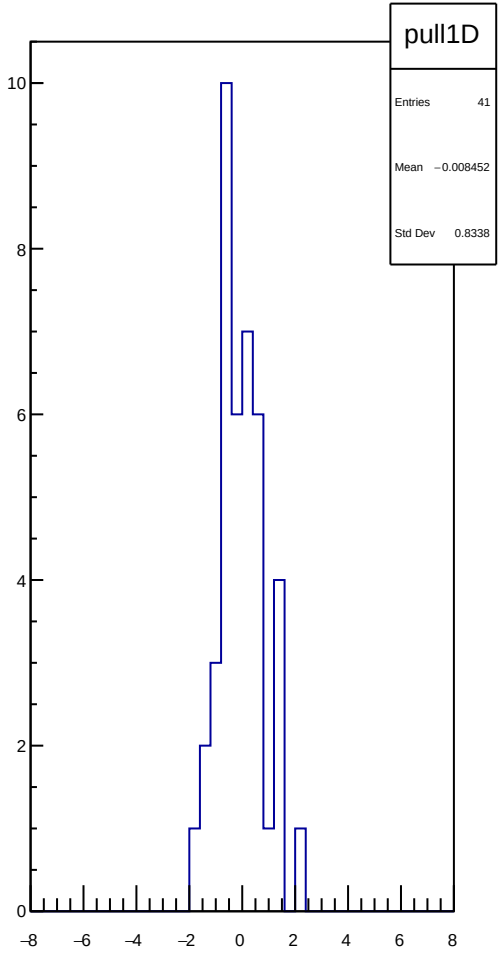

diff_bpm16Y_rms vs run
χ² / ndf 2126 / 40
p0 4282 ± 4.781
4800
4600
4400
4200
4000
3800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

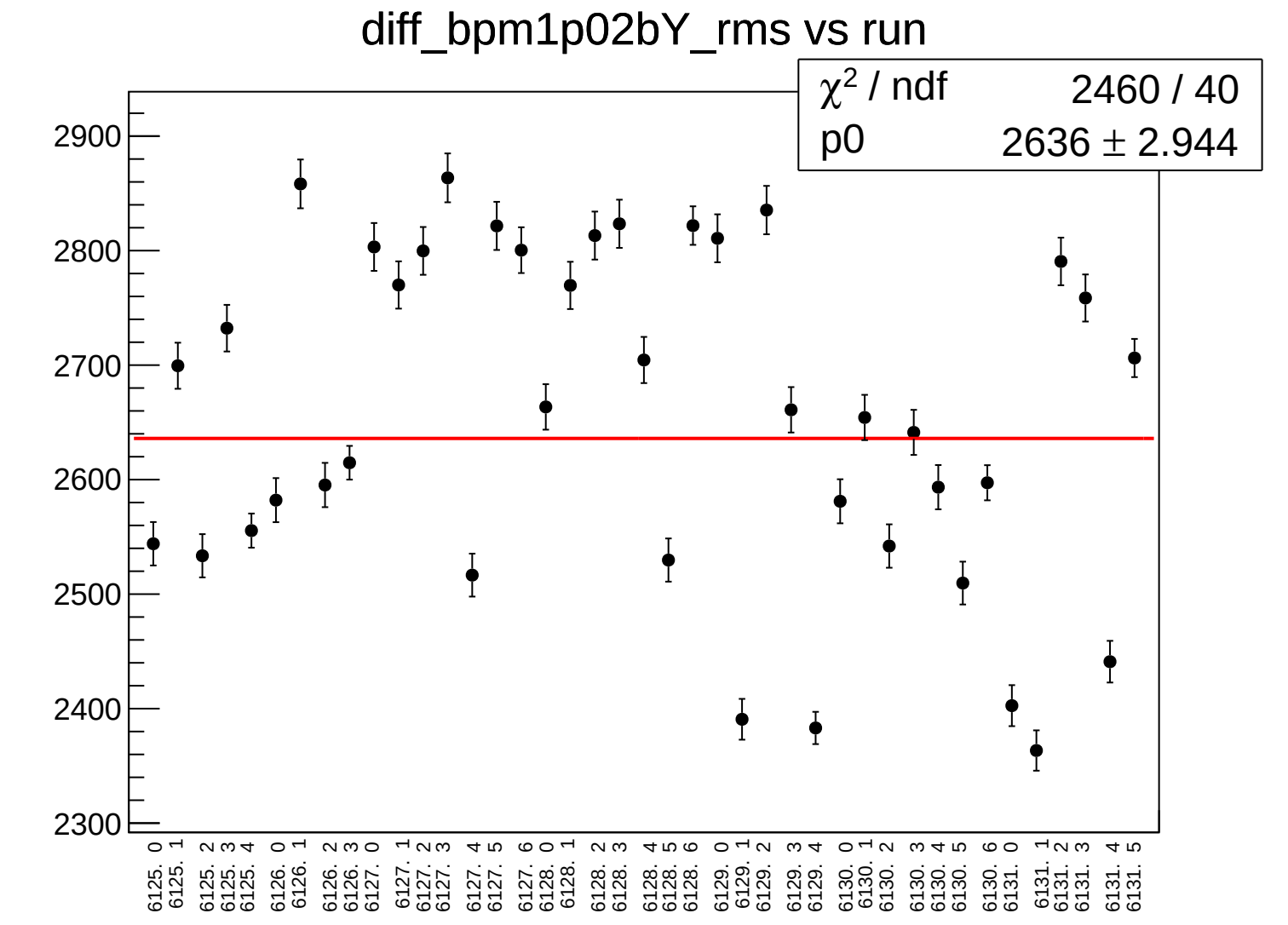

diff_bpm1p02bX_mean vs run
χ² / ndf 33.8 / 40
p0 −4.003 ± 2.284
40
20
0
−20
−40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −31.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

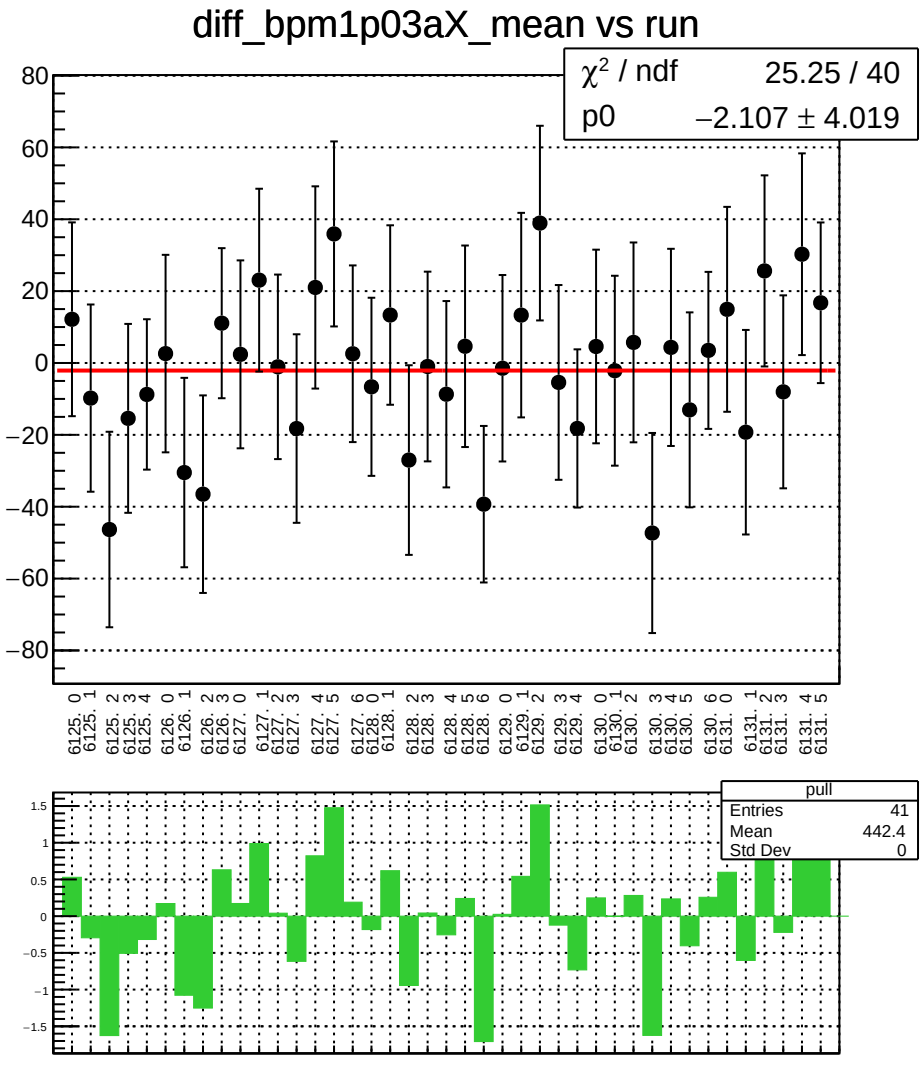

pull1D
Entries 41
Mean 0.007852
Std Dev 0.9079
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

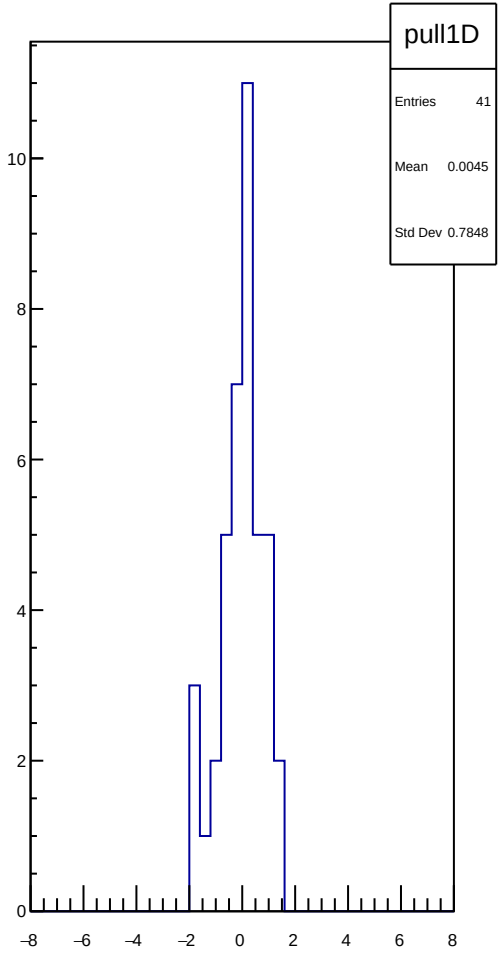

diff_bpm1p02bX_rms vs run
χ² / ndf 1823 / 40
p0 1447 ± 1.615
1600
1550
1500
1450
1400
1350
1300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

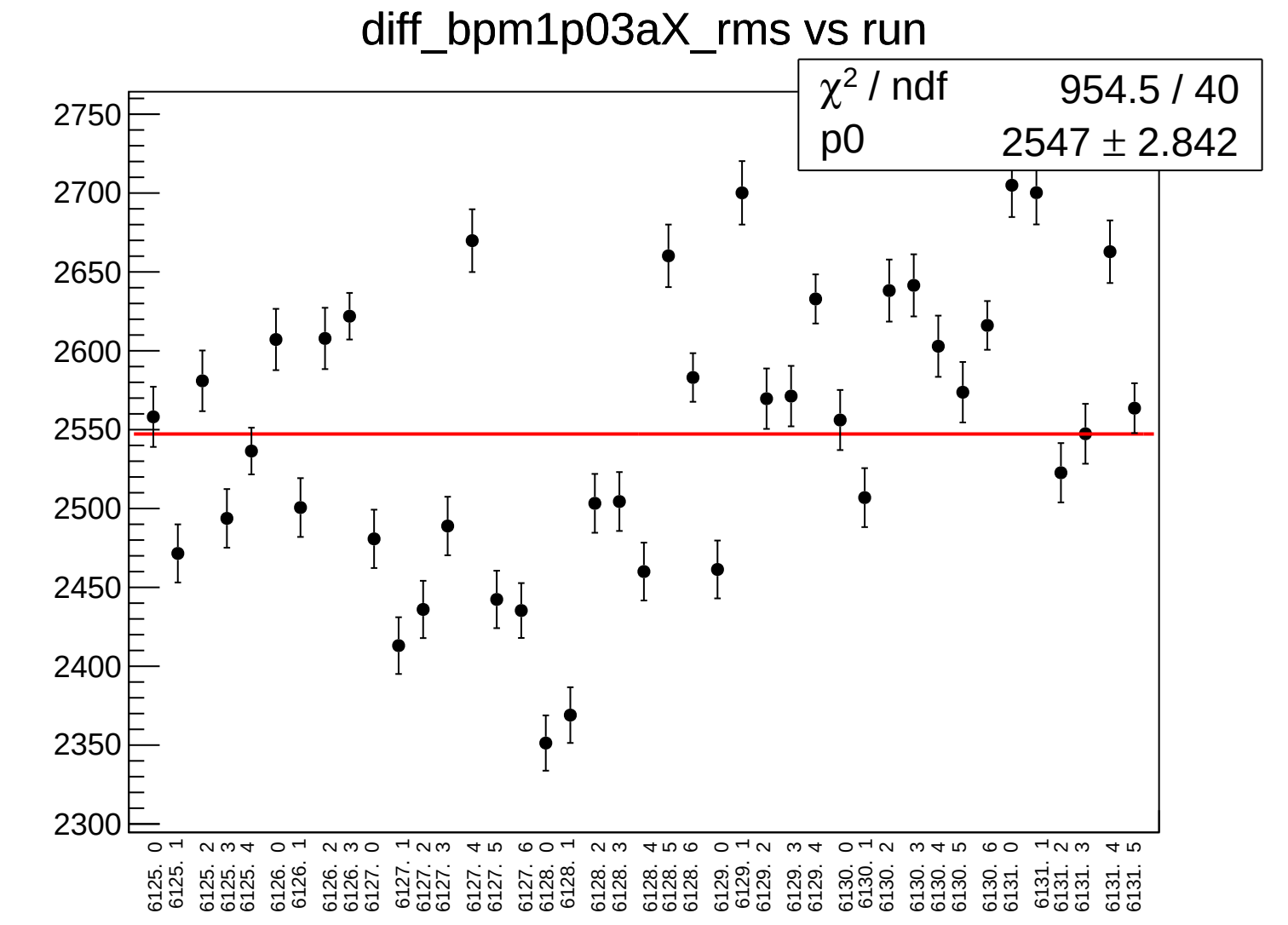

diff_bpm1p02bY_mean vs run
χ² / ndf 28.51 / 40
p0 9.704 ± 4.163
pull
Entries 41
Mean 77.7
Std Dev 0

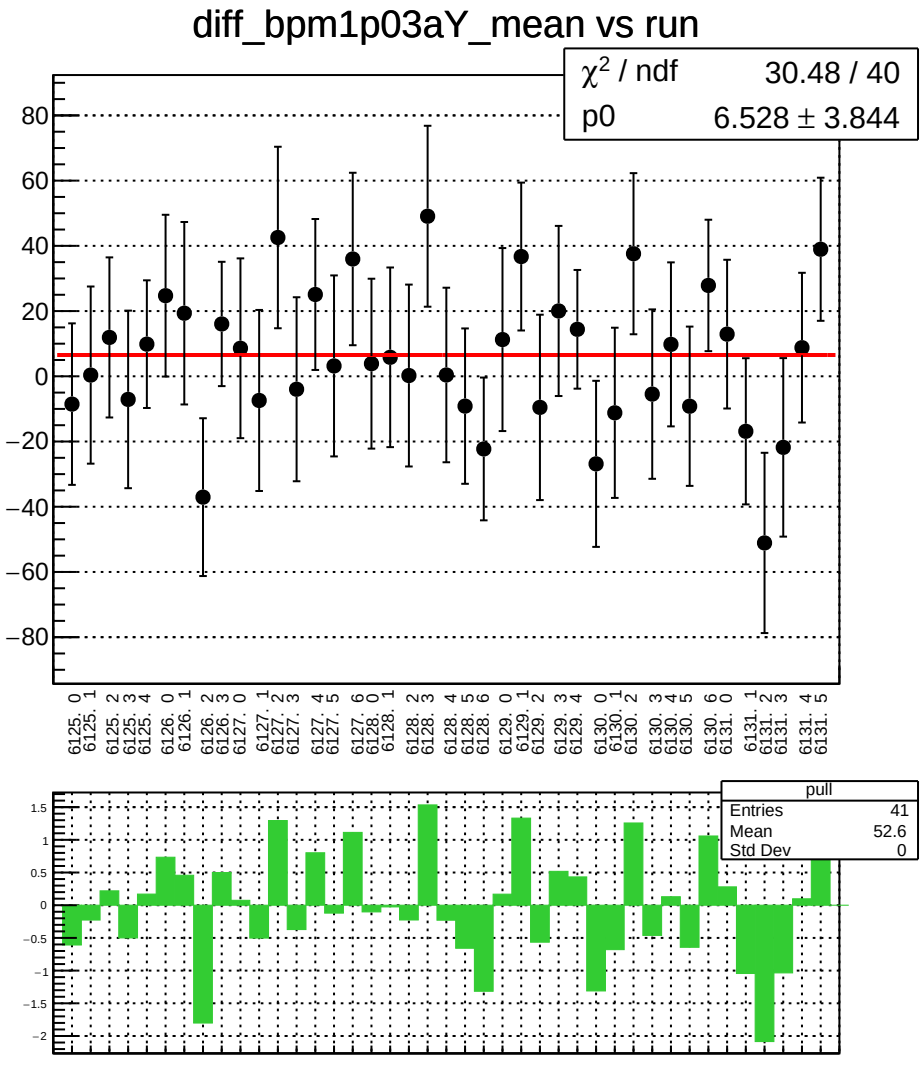

pull1D
Entries 41
Mean −0.008452
Std Dev 0.8338

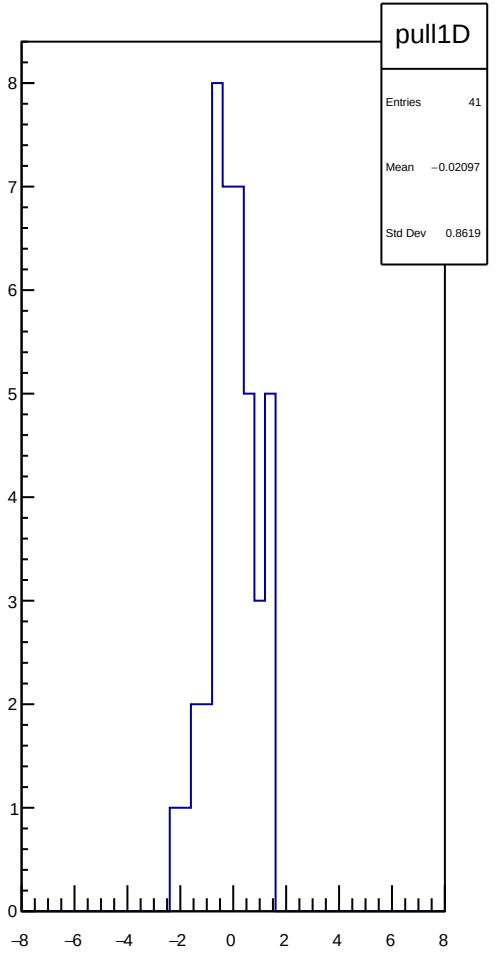

diff_bpm1p02bY_rms vs run
χ² / ndf 2460 / 40
p0 2636 ± 2.944
2900
2800
2700
2600
2500
2400
2300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

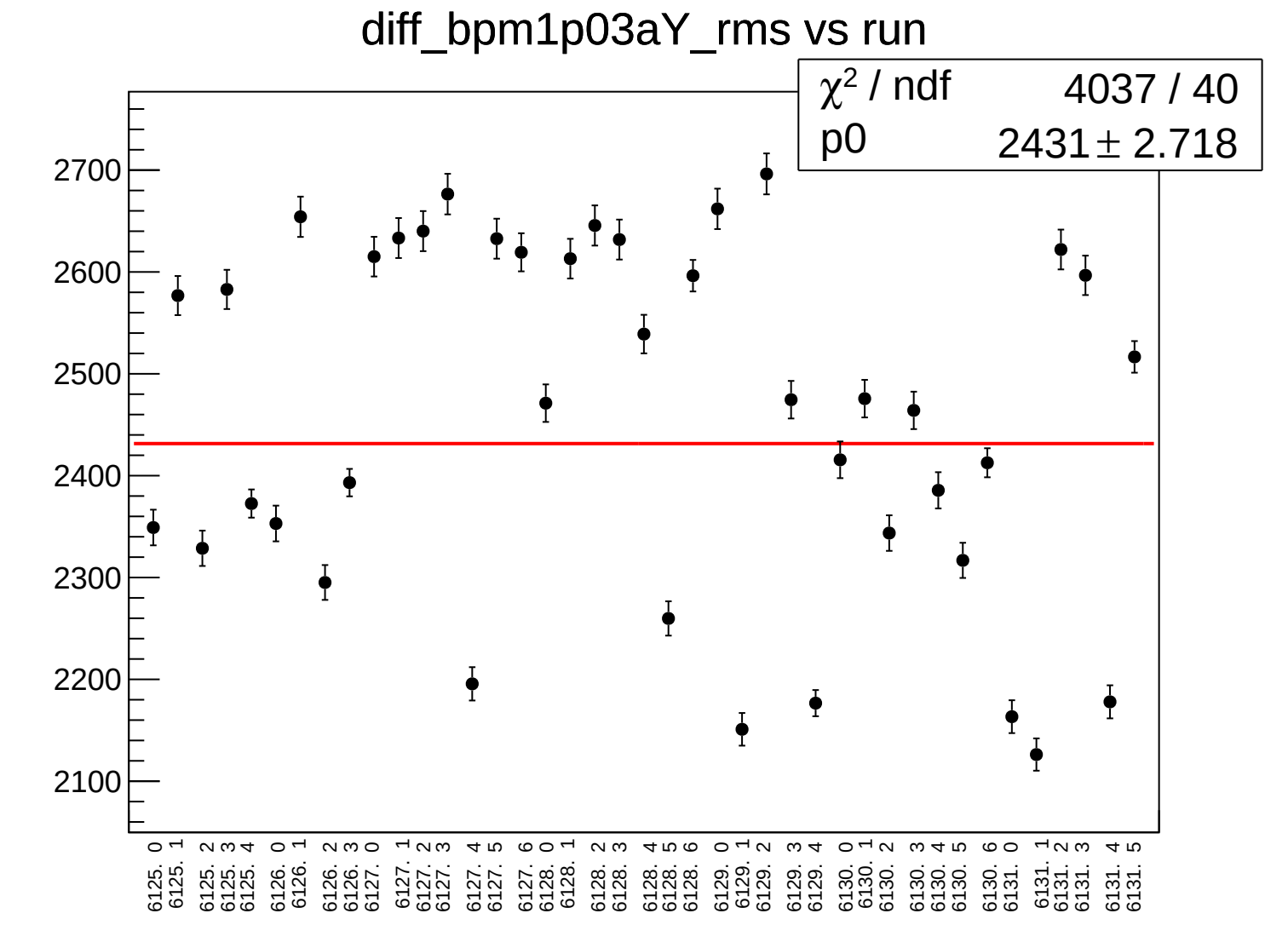

diff_bpm1p03aX_mean vs run
χ² / ndf 25.25 / 40
p0 −2.107 ± 4.019
pull
Entries 41
Mean 442.4
Std Dev 0

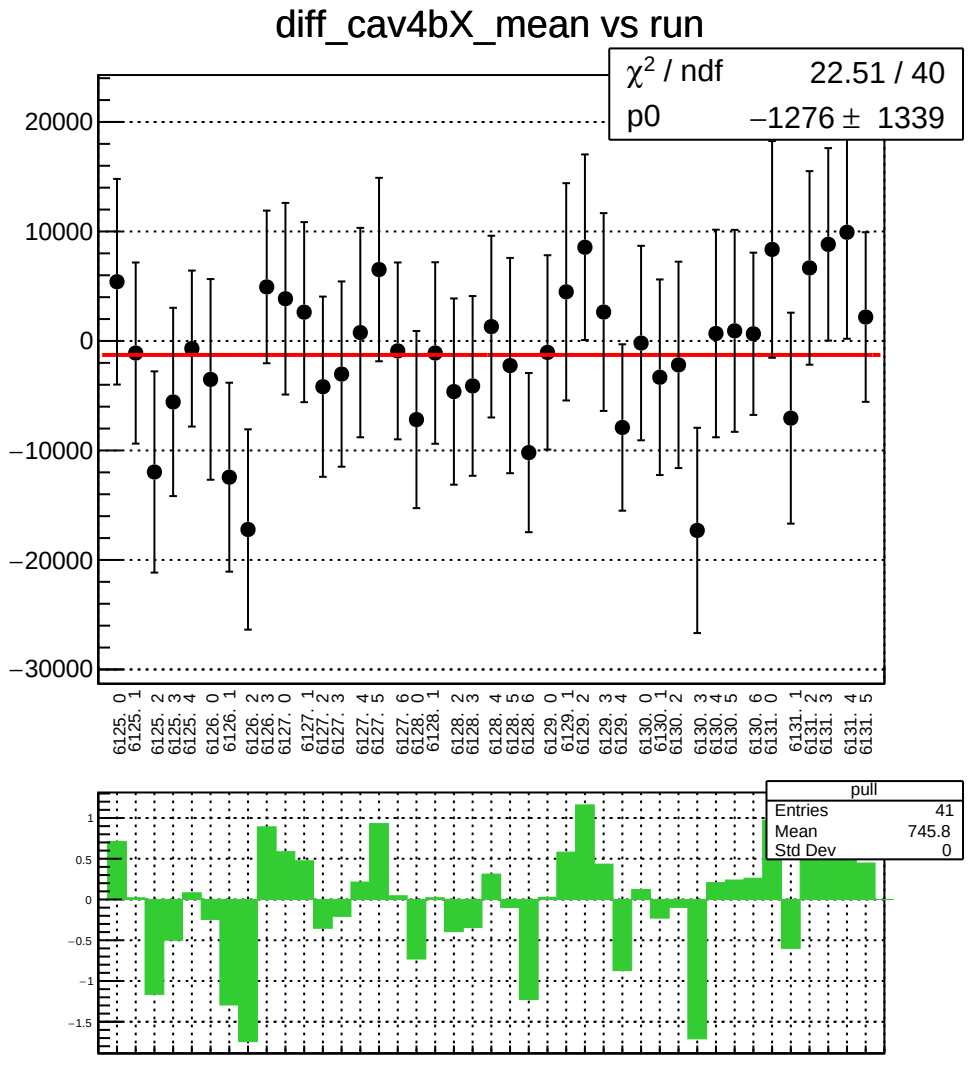

pull1D
Entries 41
Mean 0.0045
Std Dev 0.7848

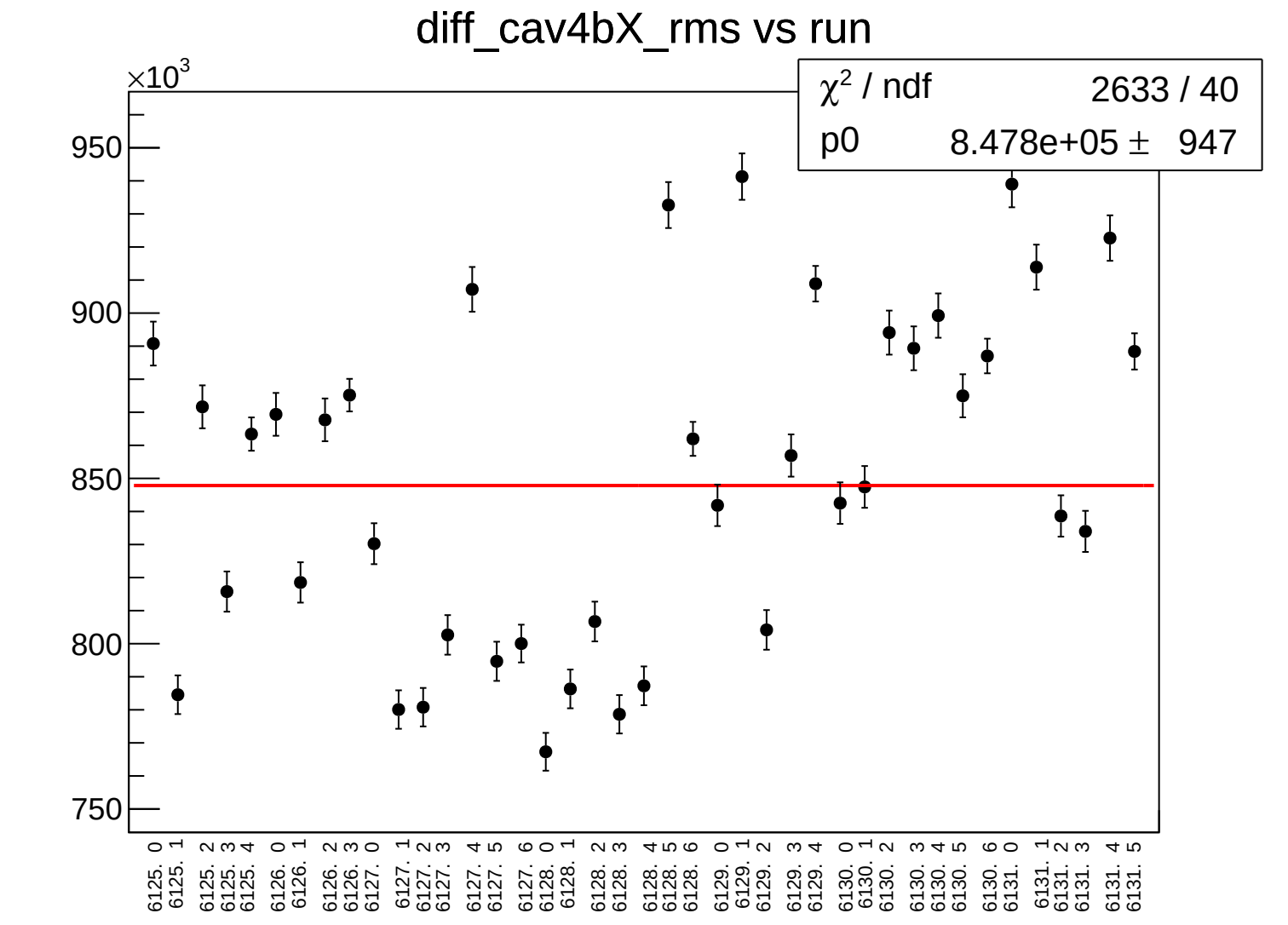

diff_bpm1p03aX_rms vs run
χ² / ndf 954.5 / 40
p0 2547 ± 2.842
2750
2700
2650
2600
2550
2500
2450
2400
2350
2300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

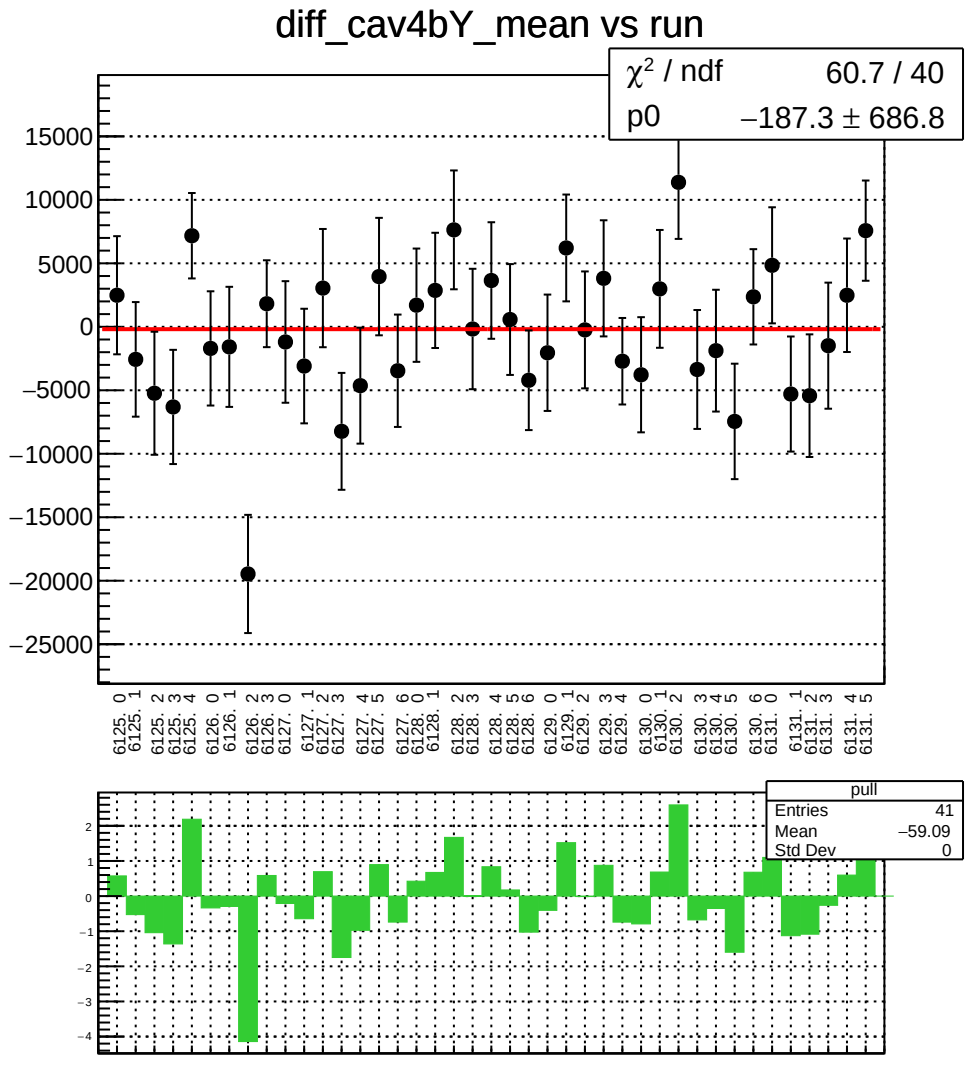

diff_bpm1p03aY_mean vs run
χ² / ndf 30.48 / 40
p0 6.528 ± 3.844
pull
Entries 41
Mean 52.6
Std Dev 0

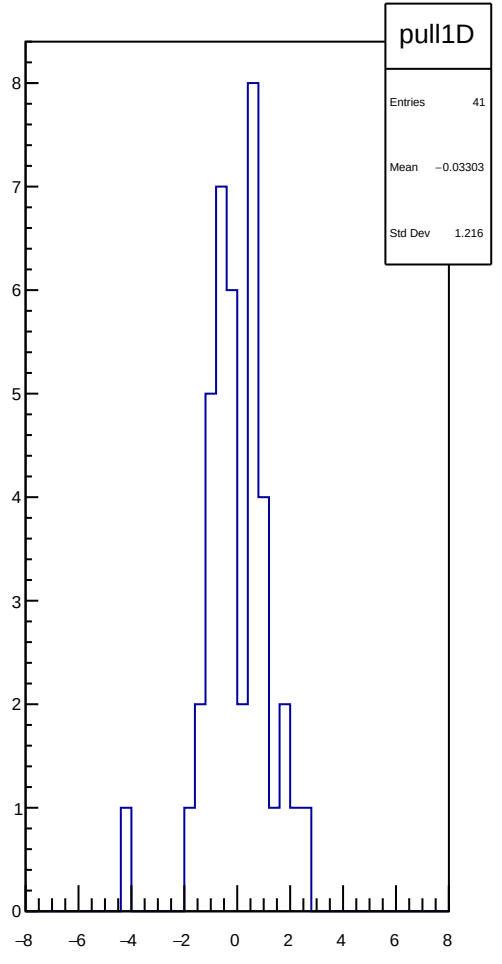

pull1D
Entries 41
Mean −0.02097
Std Dev 0.8619

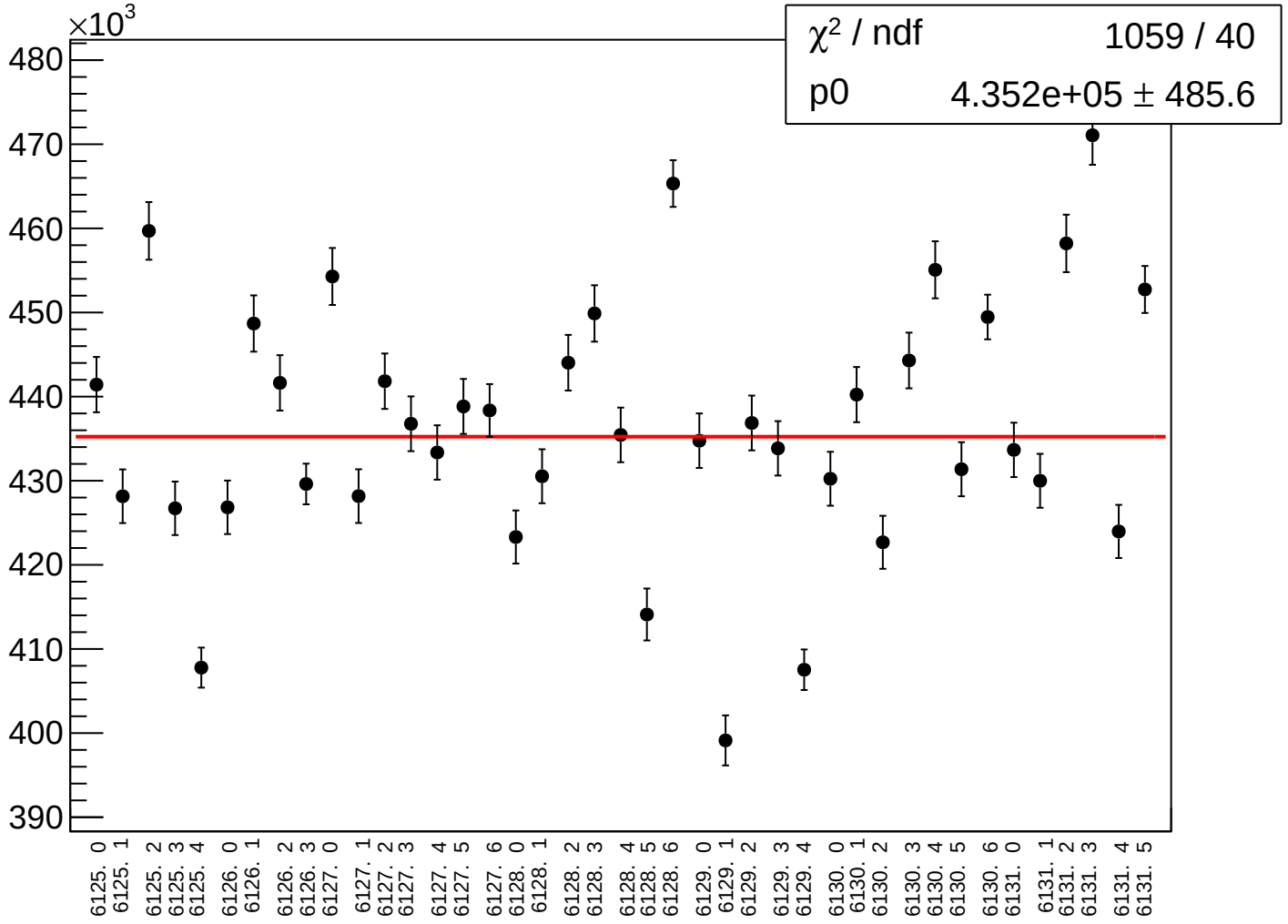

diff_bpm1p03aY_rms vs run
χ² / ndf 4037 / 40
p0 2431 ± 2.718
2700
2600
2500
2400
2300
2200
2100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

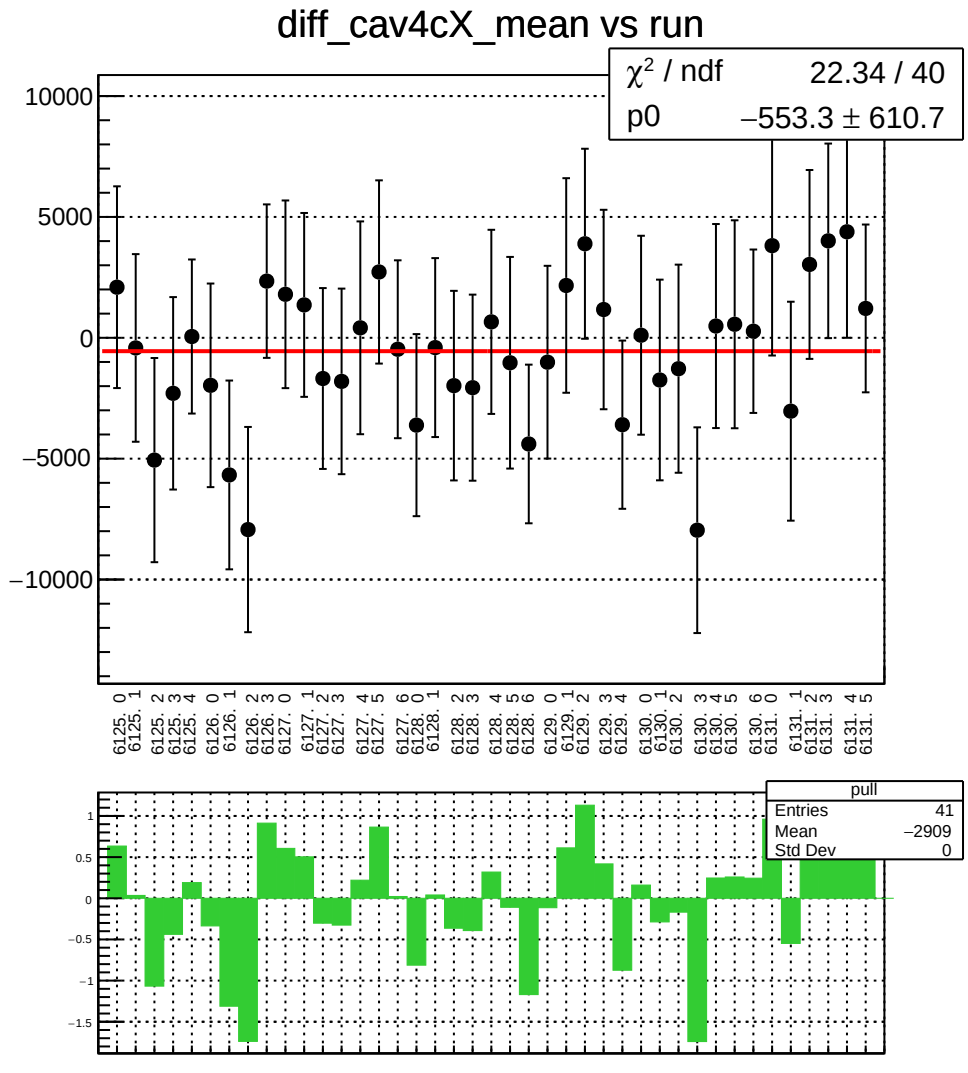

diff_cav4bX_mean vs run
χ² / ndf 22.51 / 40
p0 −1276 ± 1339
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 745.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.003358
Std Dev 0.741
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

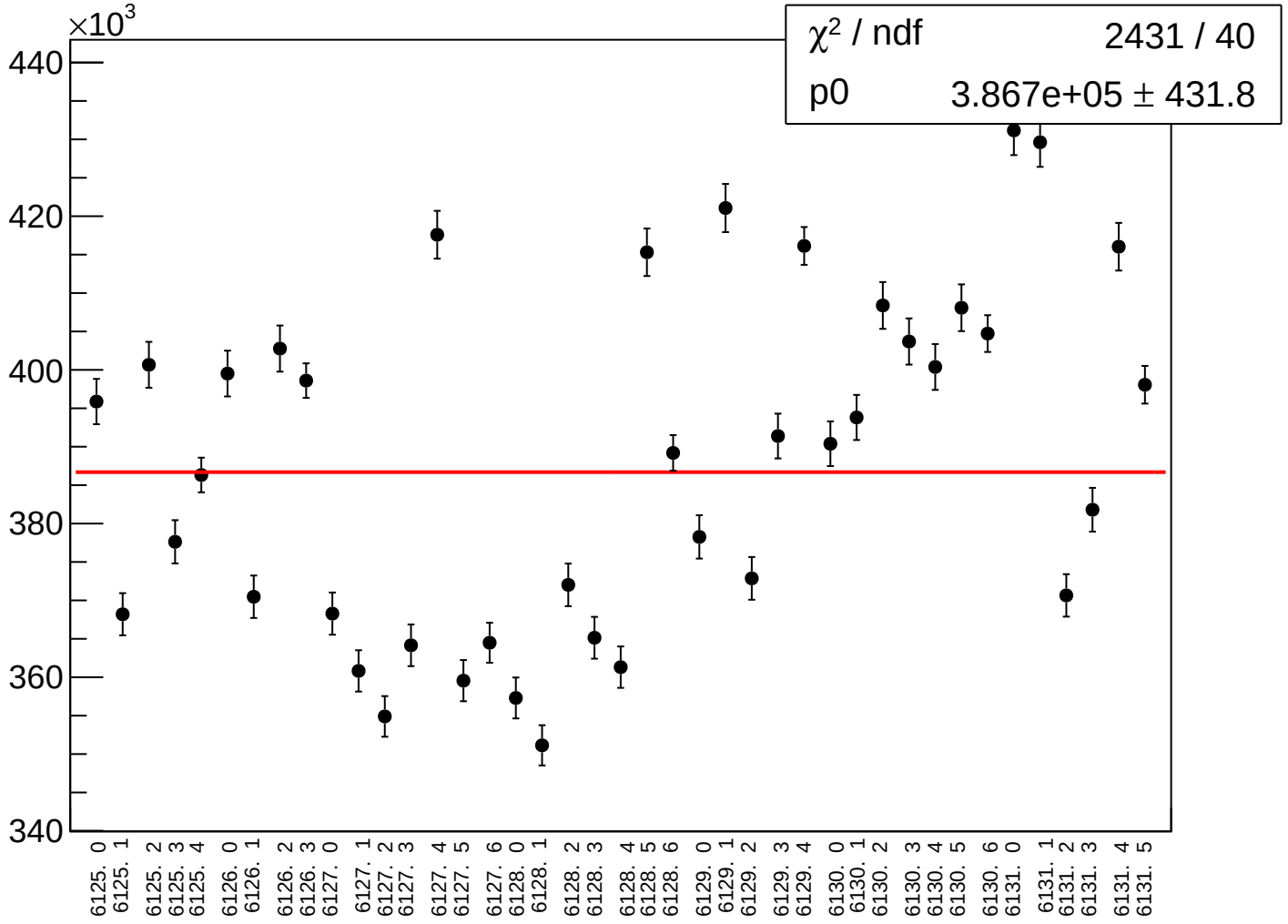

diff_cav4bX_rms vs run
×10^3
χ^2 / ndf 2633 / 40
p0 8.478e+05 ± 947
950
900
850
800
750
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

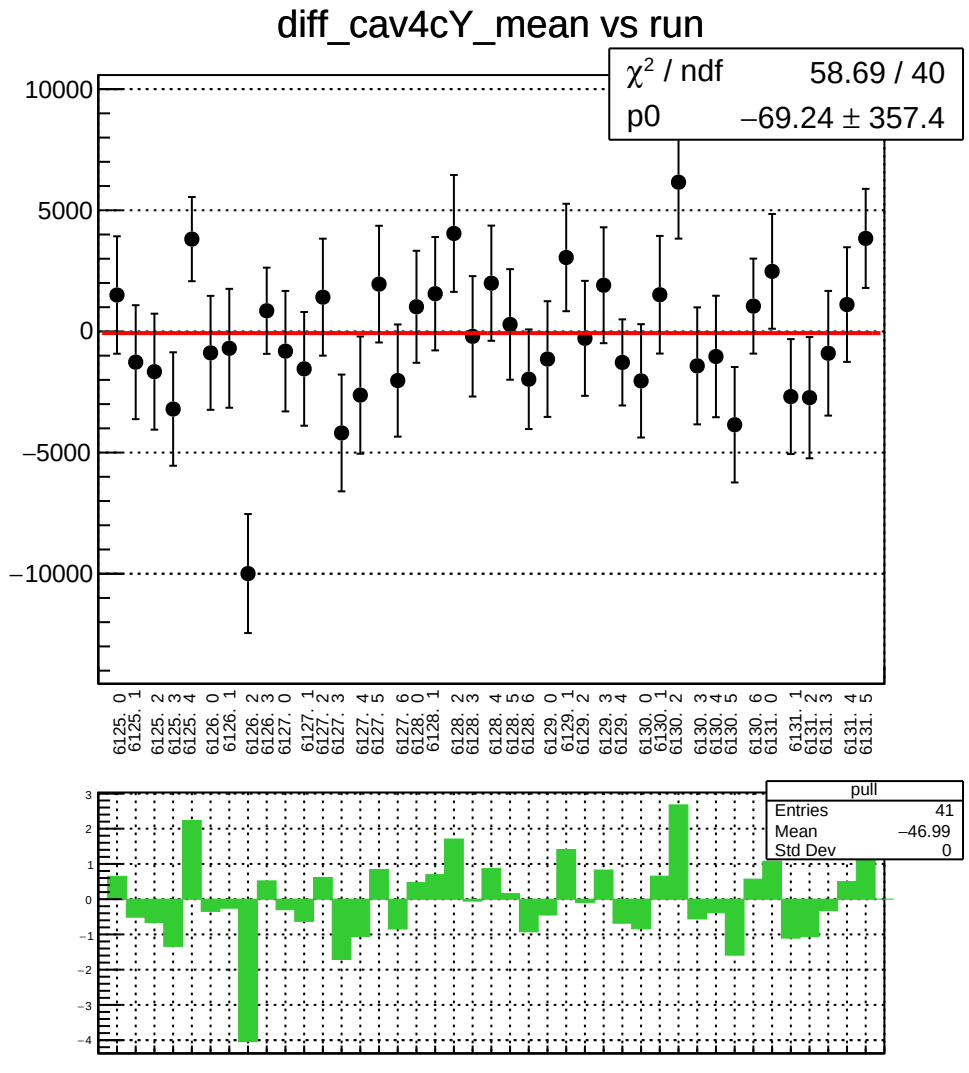

diff_cav4bY_mean vs run
χ² / ndf 60.7 / 40
p0 −187.3 ± 686.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −59.09
Std Dev 0
2
1
0
−1
−2
−3
−4

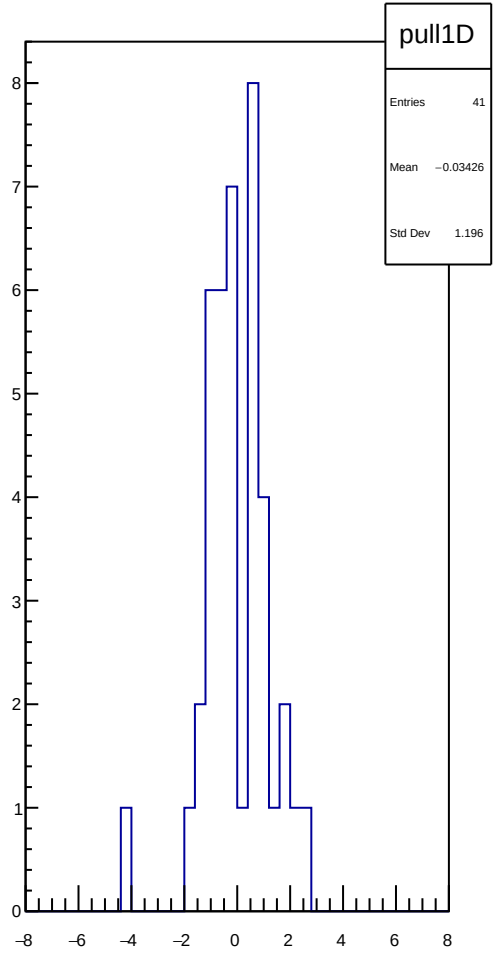

pull1D
Entries 41
Mean −0.03303
Std Dev 1.216
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

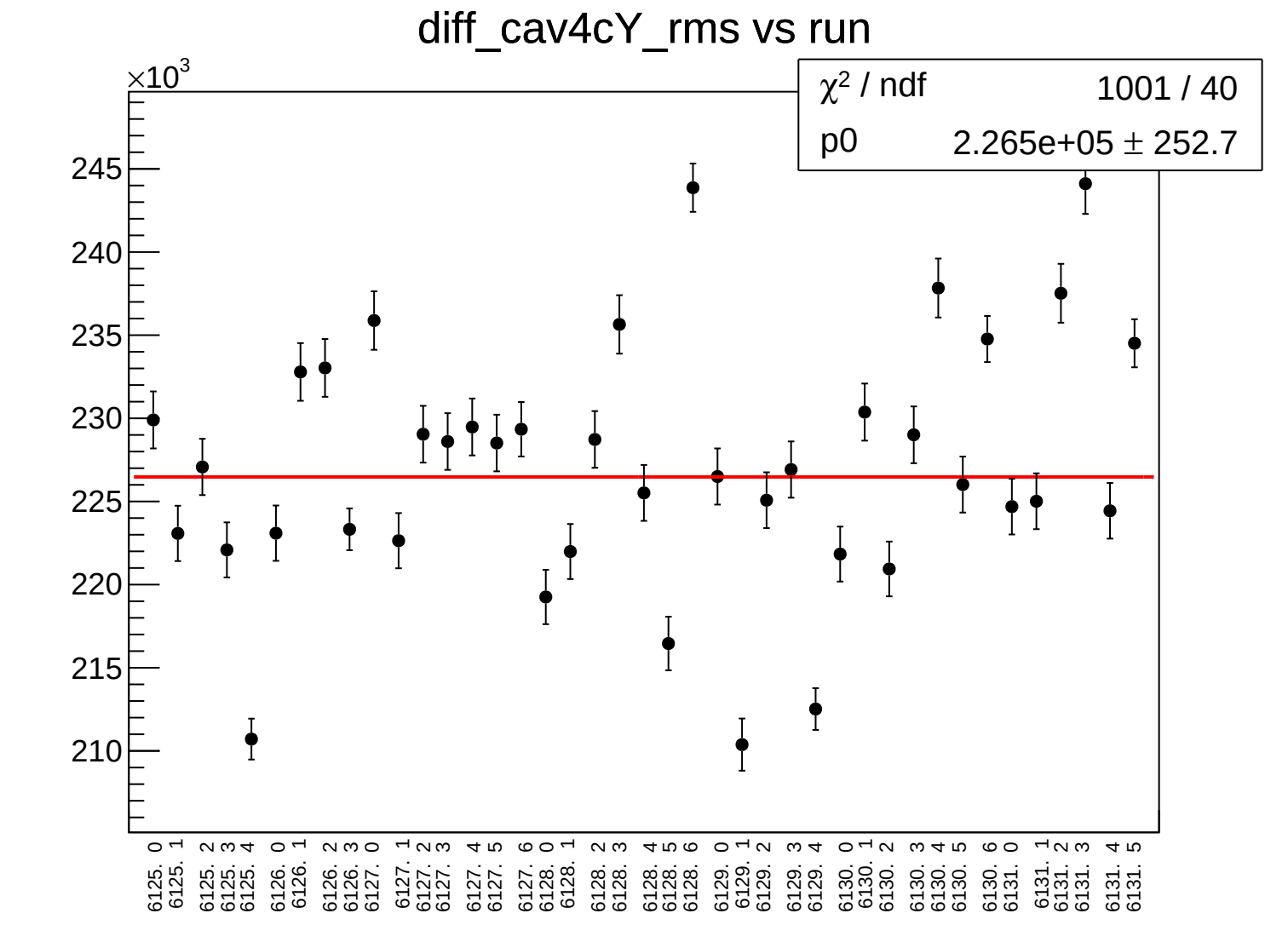

diff_cav4bY_rms vs run
×10^3
χ² / ndf 1059 / 40
p0 4.352e+05 ± 485.6
480
470
460
450
440
430
420
410
400
390
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

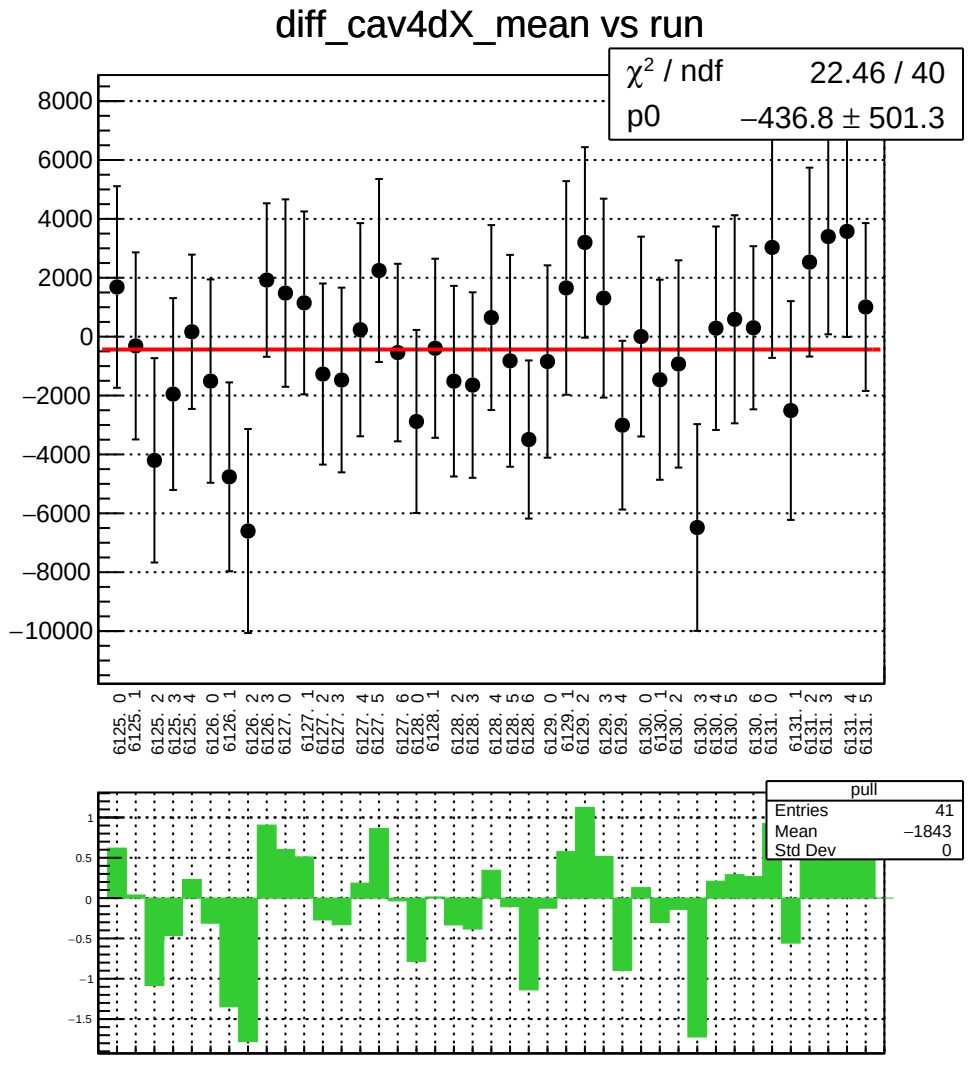

diff_cav4cX_mean vs run
χ² / ndf 22.34 / 40
p0 −553.3 ± 610.7
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −2909
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.0008235
Std Dev 0.7381
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

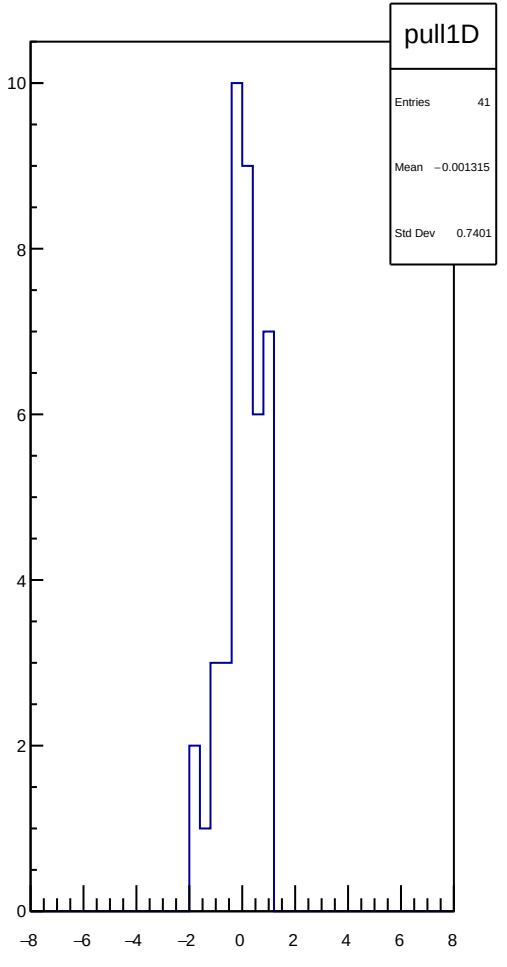

diff_cav4cX_rms vs run
×10^3
χ² / ndf 2431 / 40
p0 3.867e+05 ± 431.8
440
420
400
380
360
340
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

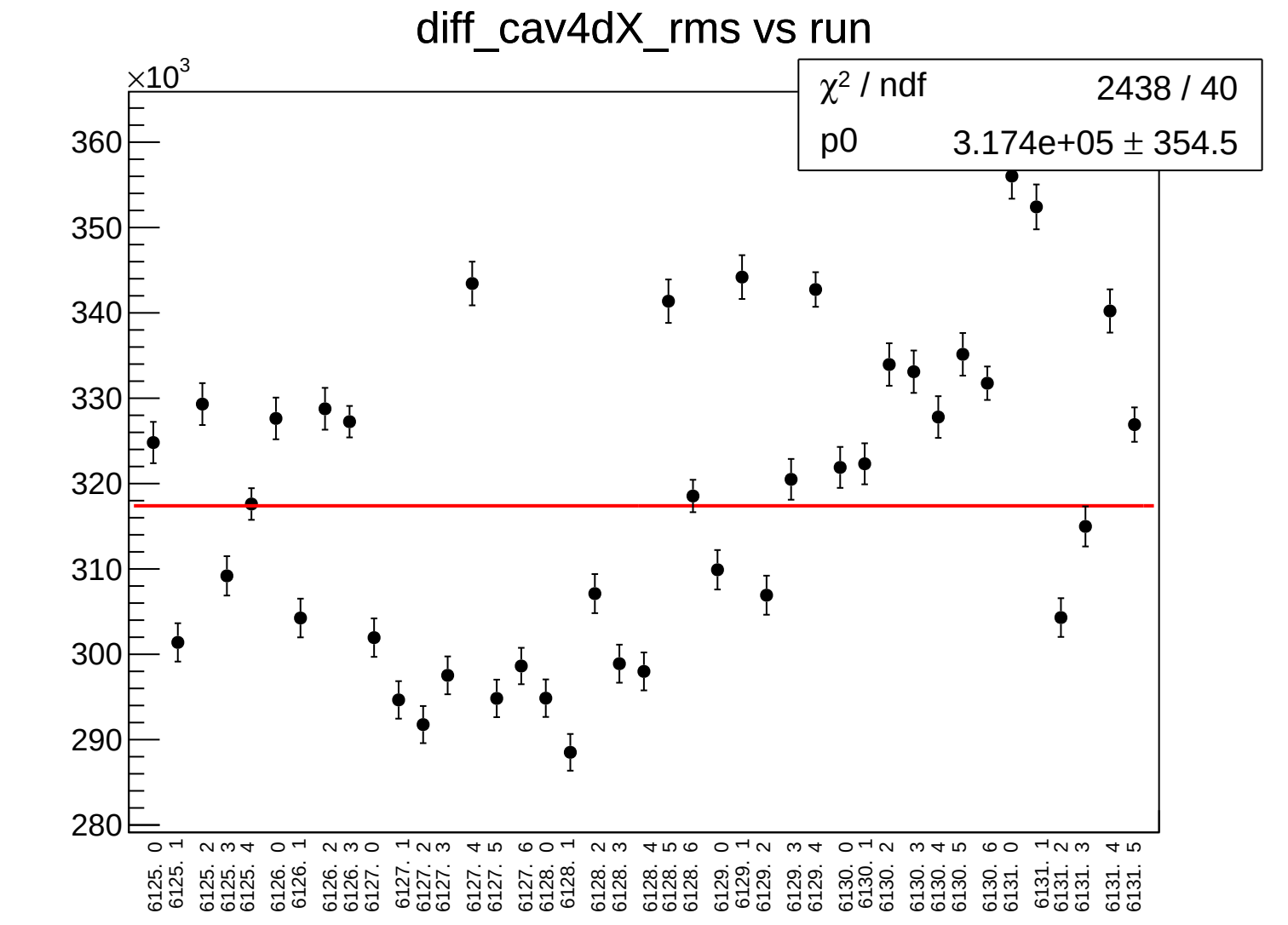

diff_cav4cY_mean vs run
χ² / ndf 58.69 / 40
p0 −69.24 ± 357.4
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −46.99
Std Dev 0
3
2
1
0
−1
−2
−3
−4

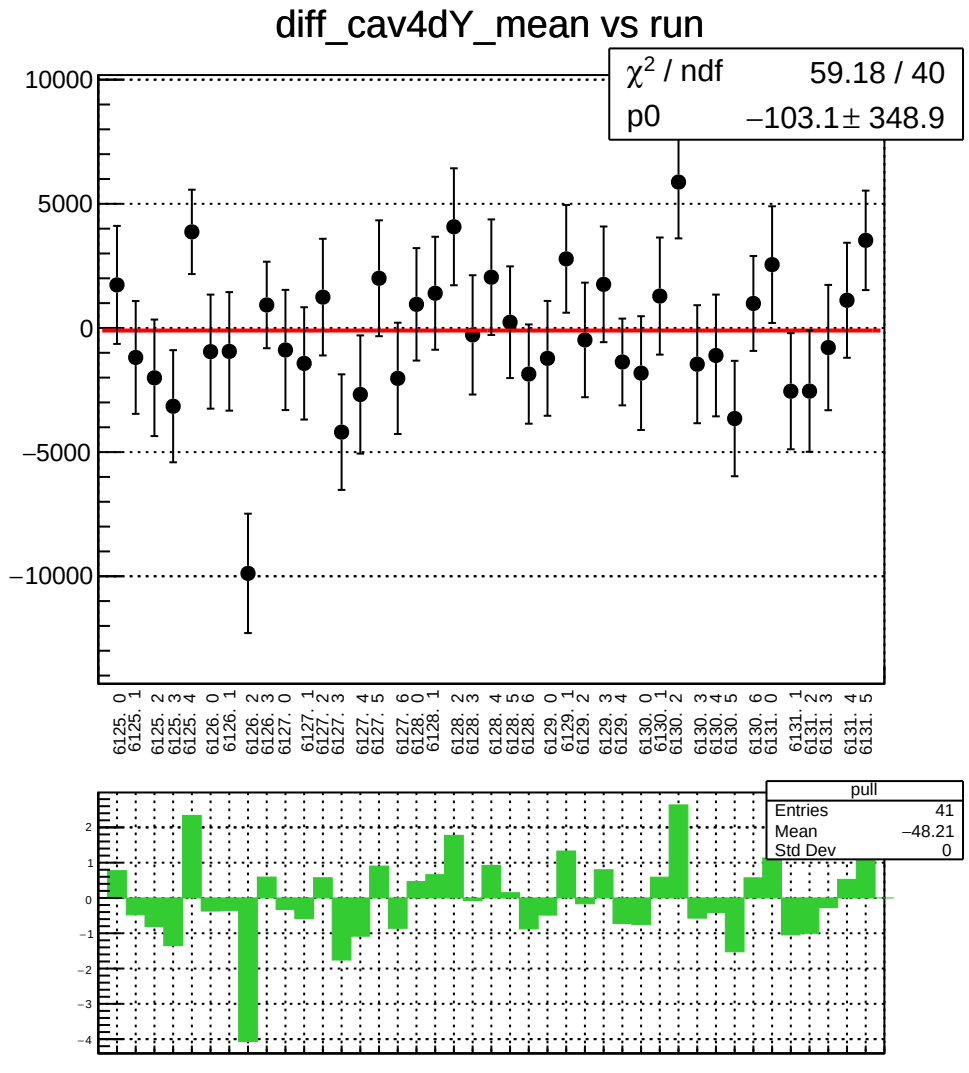

pull1D
Entries 41
Mean −0.03426
Std Dev 1.196
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

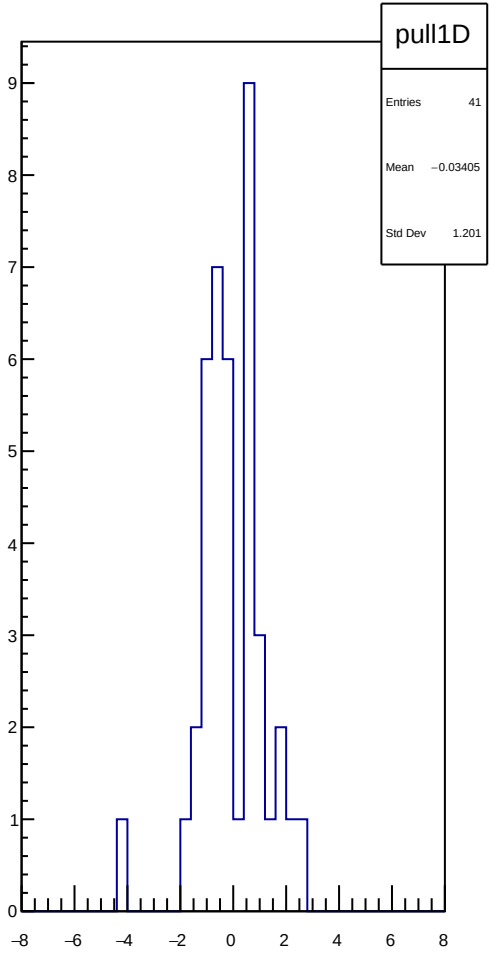

diff_cav4cY_rms vs run
×10^3
χ² / ndf 1001 / 40
p0 2.265e+05 ± 252.7
245
240
235
230
225
220
215
210
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

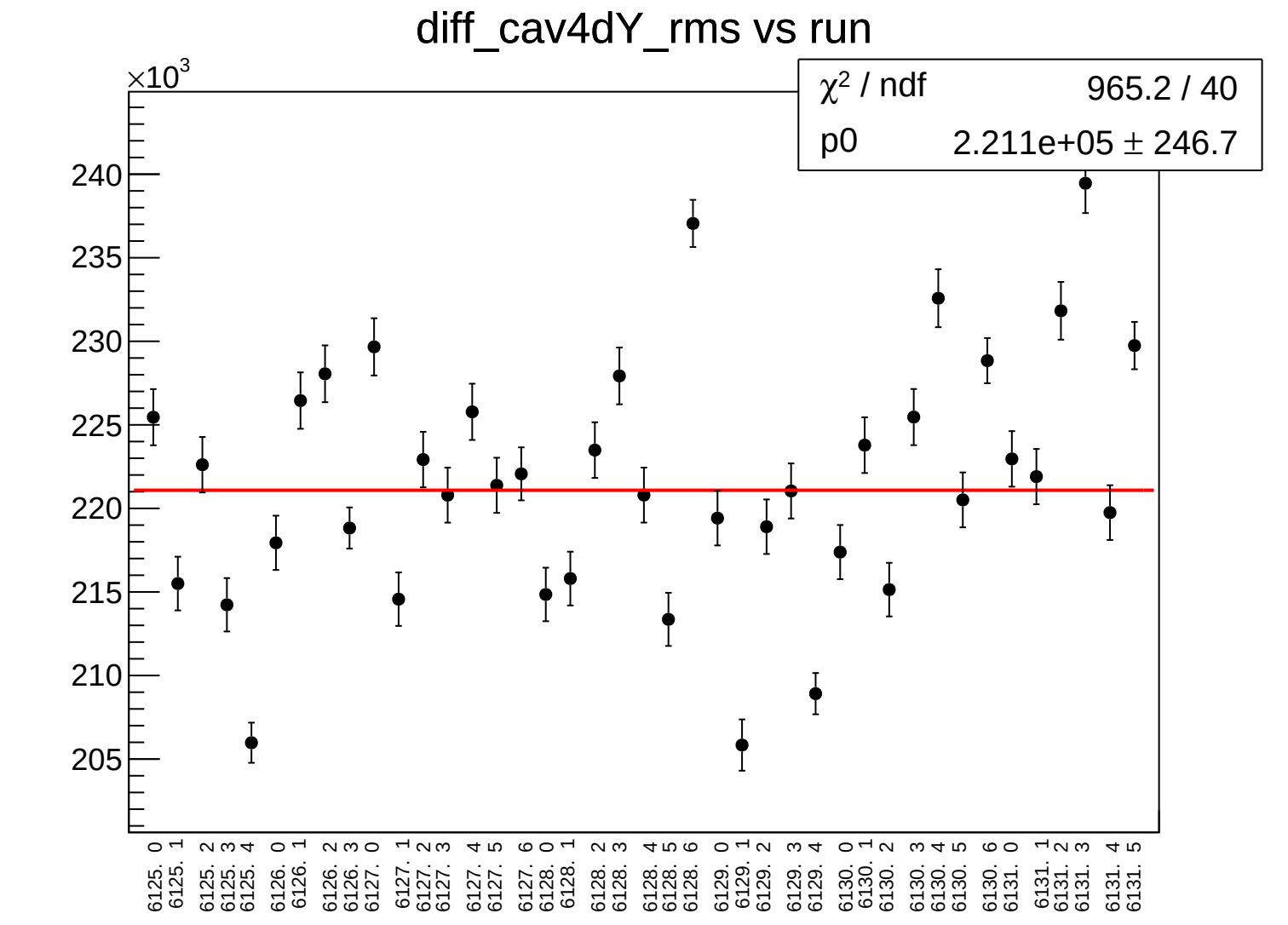

diff_cav4dX_mean vs run
χ² / ndf 22.46 / 40
p0 −436.8 ± 501.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1843
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

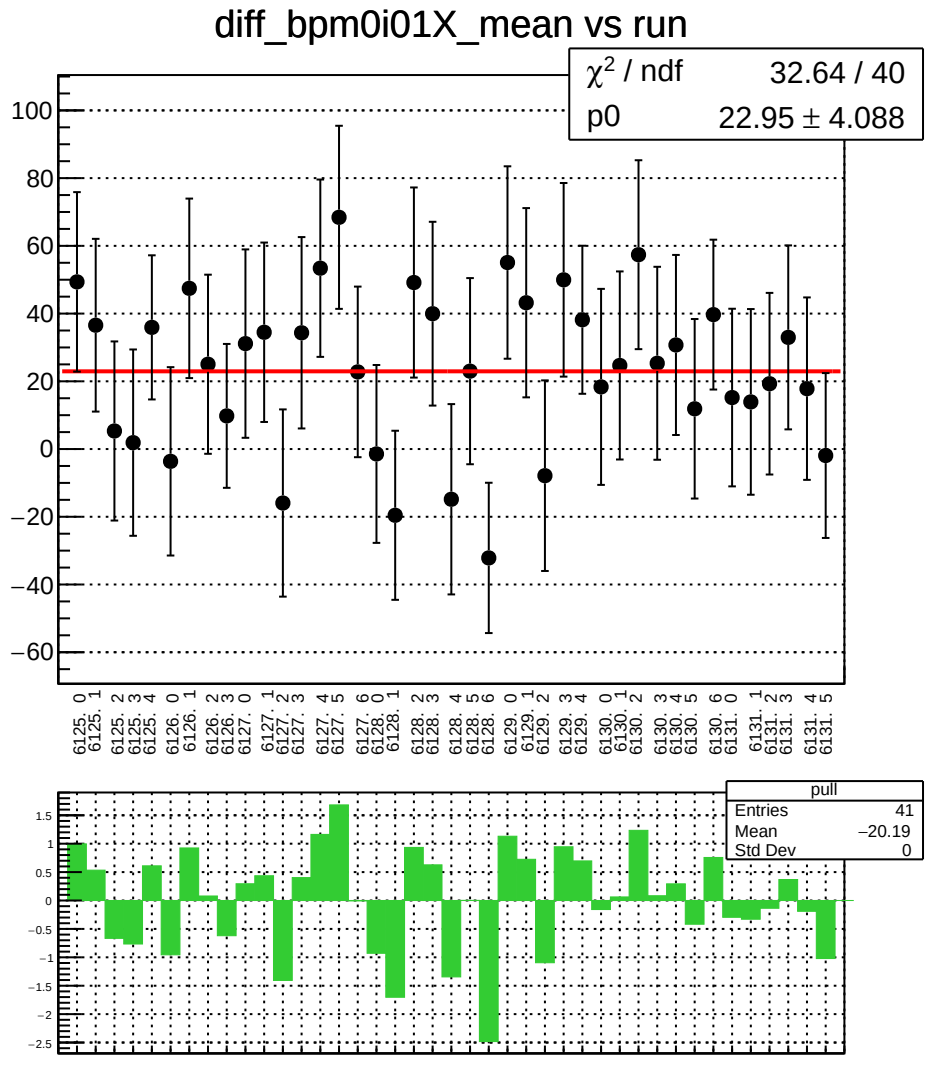

pull1D
Entries 41
Mean −0.001315
Std Dev 0.7401
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

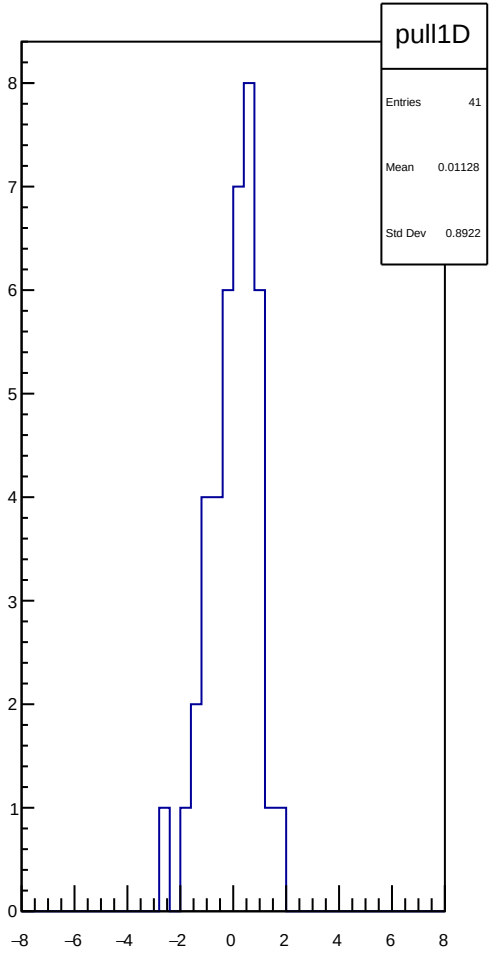

diff_cav4dX_rms vs run
×10^3
χ² / ndf 2438 / 40
p0 3.174e+05 ± 354.5
360
350
340
330
320
310
300
290
280
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

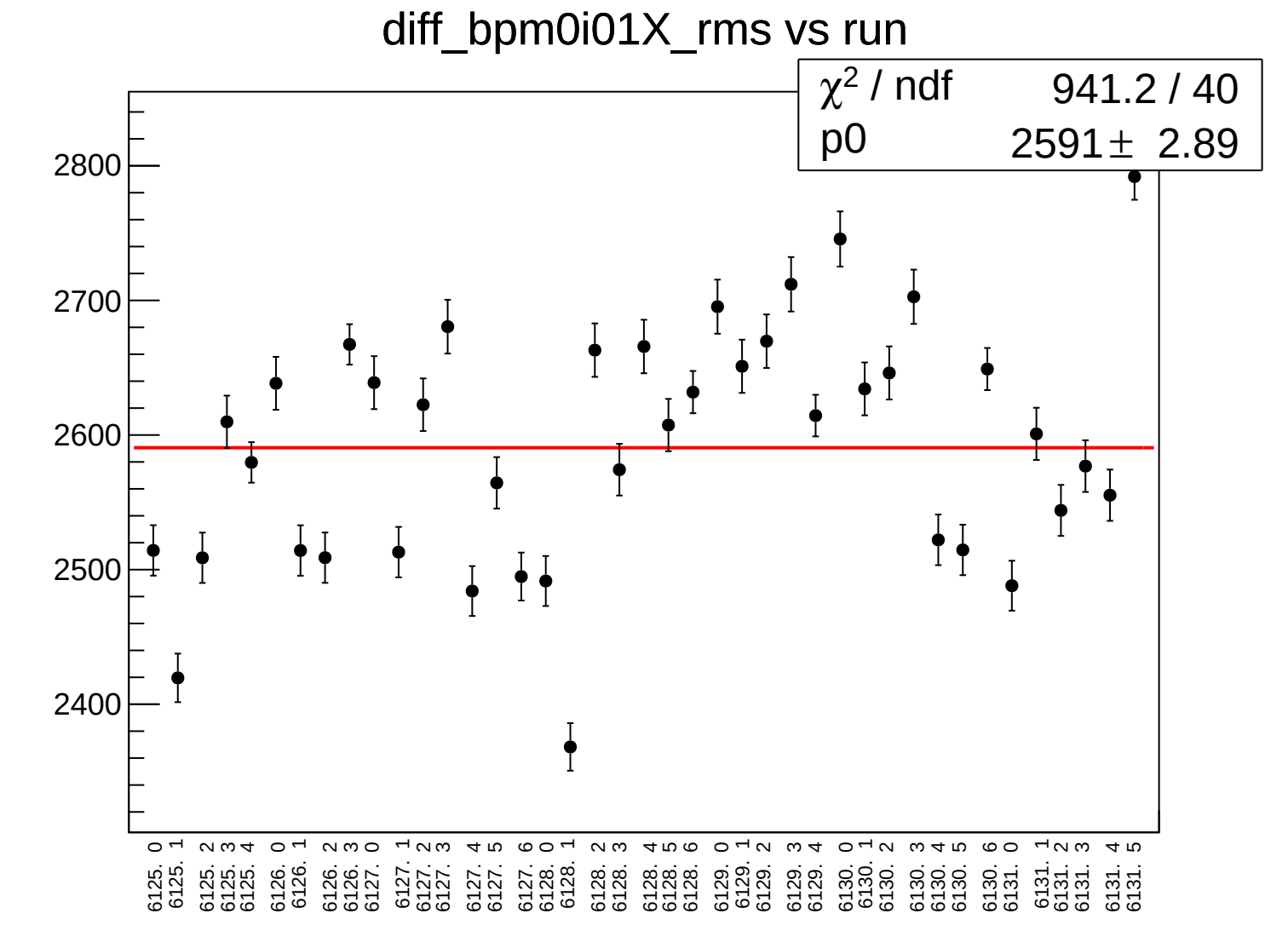

diff_cav4dY_mean vs run
χ² / ndf 59.18 / 40
p0 −103.1± 348.9
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −48.21
Std Dev 0
2
1
0
−1
−2
−3
−4

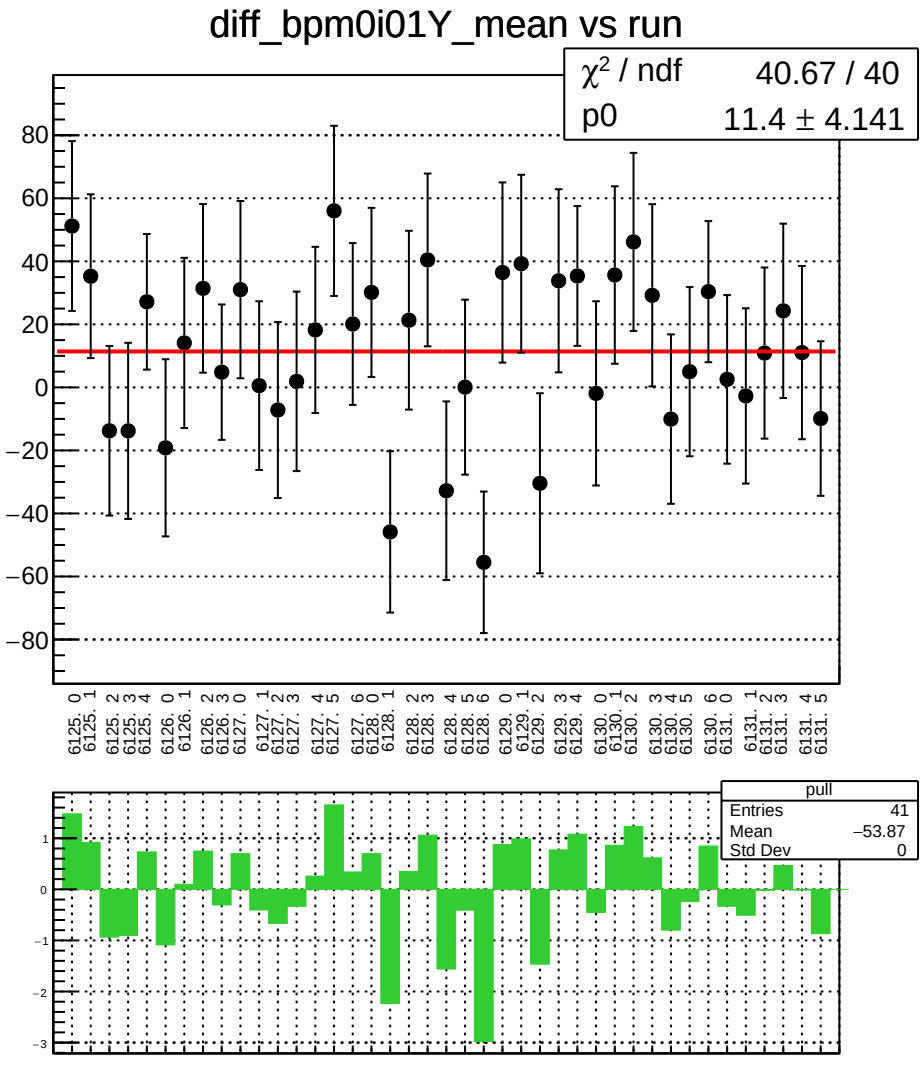

pull1D
Entries 41
Mean −0.03405
Std Dev 1.201
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

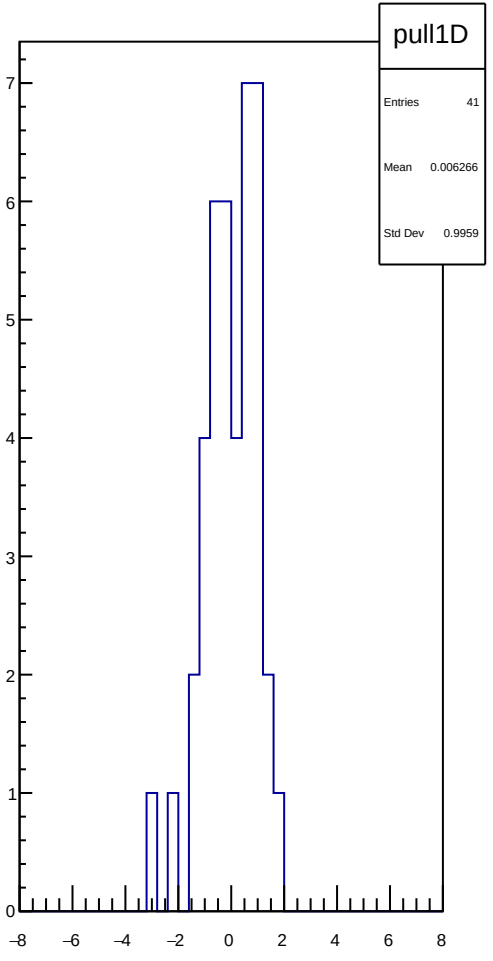

diff_cav4dY_rms vs run
×10^3
χ² / ndf 965.2 / 40
p0 2.211e+05 ± 246.7
240
235
230
225
220
215
210
205
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

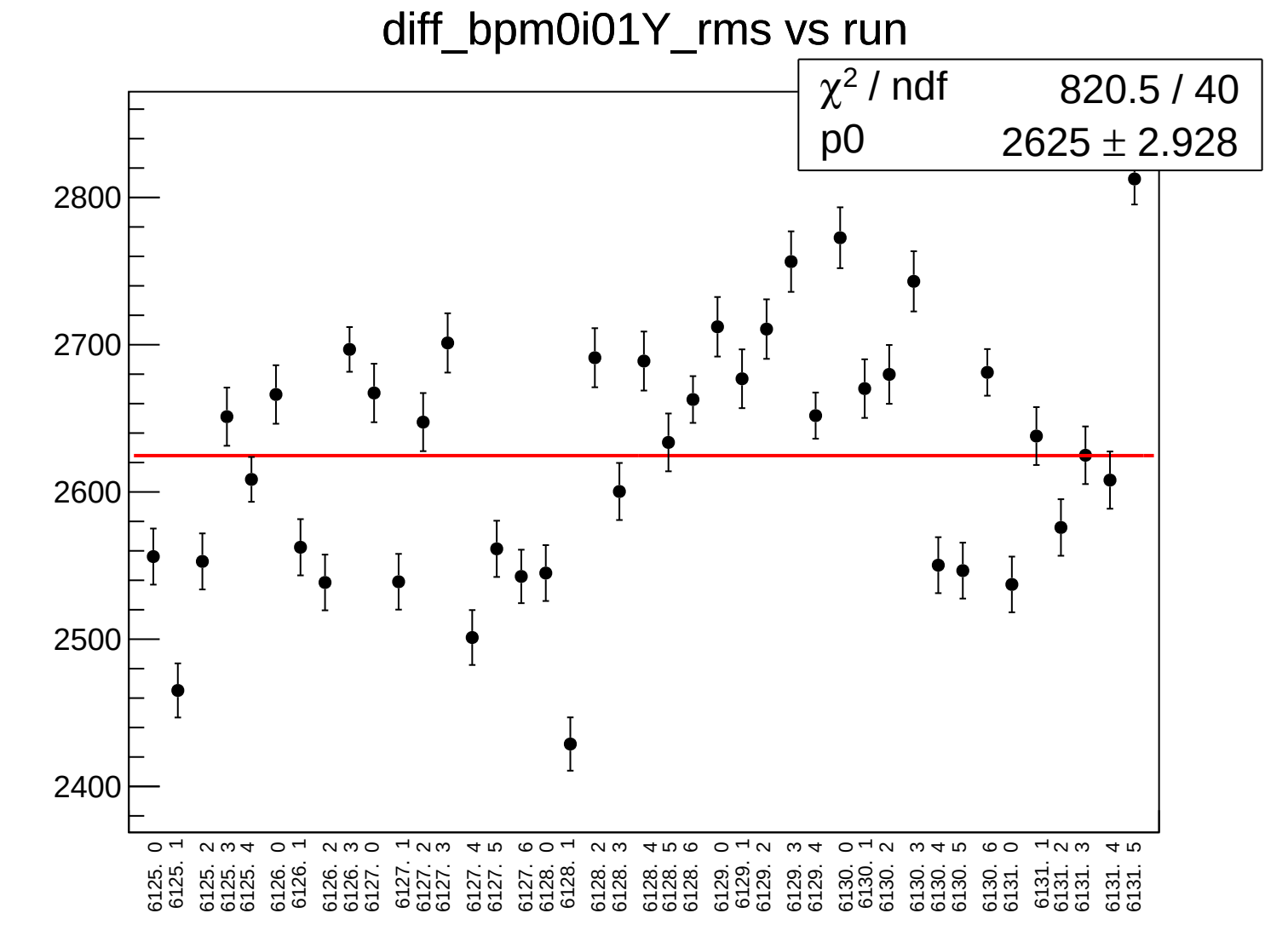

diff_bpm0i01X_mean vs run
χ^2 / ndf 32.64 / 40
p0 22.95 ± 4.088
100
80
60
40
20
0
−20
−40
−60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −20.19
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

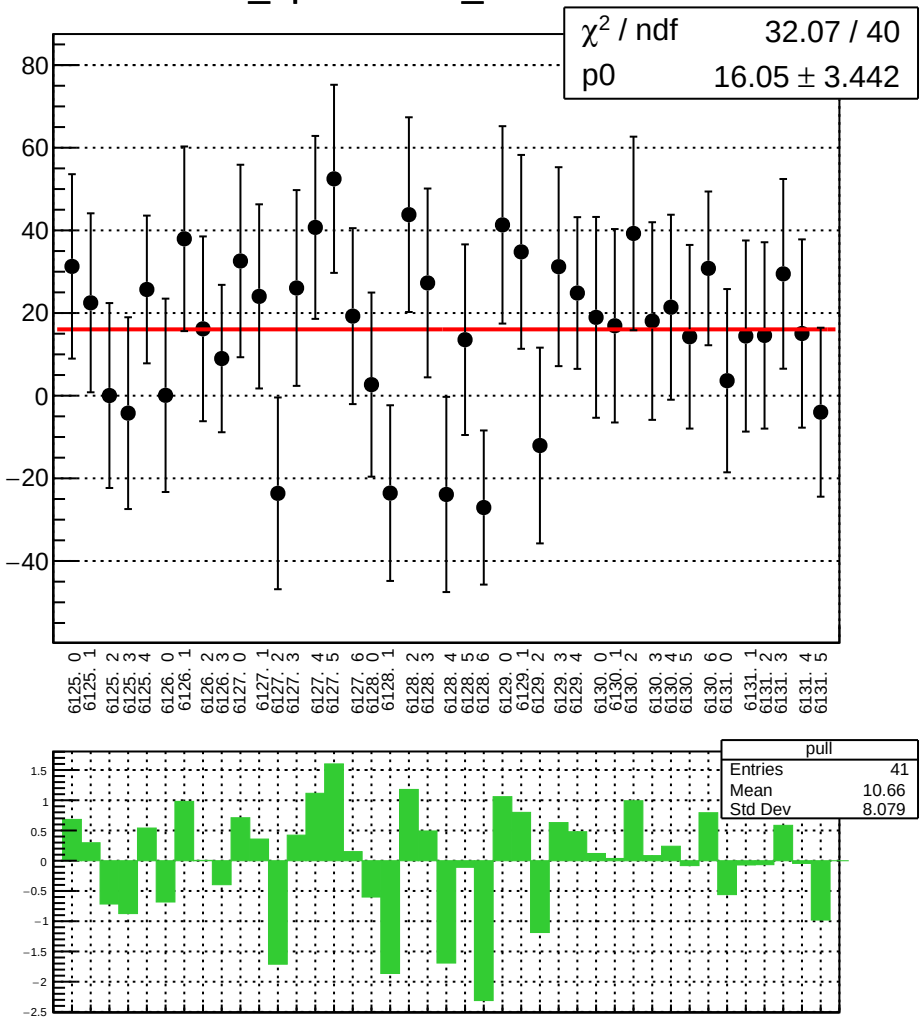

pull1D
Entries 41
Mean 0.01128
Std Dev 0.8922
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

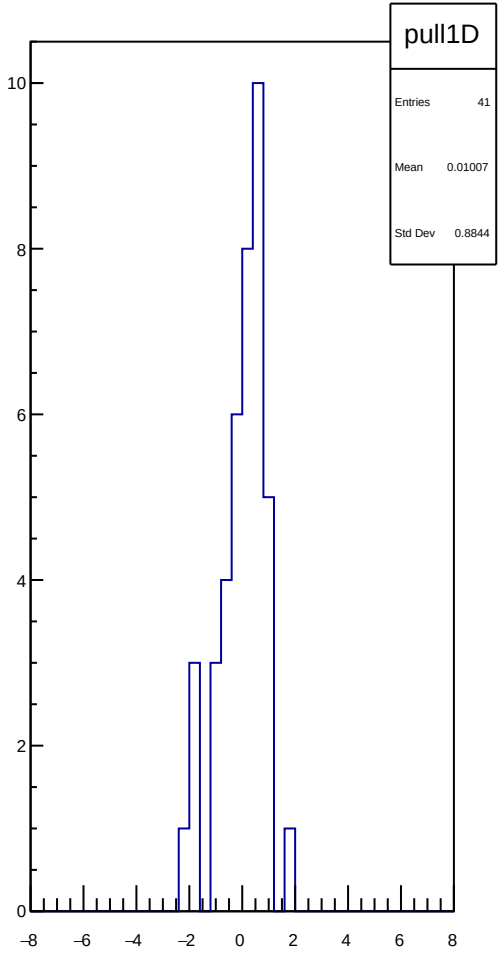

diff_bpm0i01X_rms vs run
χ² / ndf 941.2 / 40
p0 2591 ± 2.89
2800
2700
2600
2500
2400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

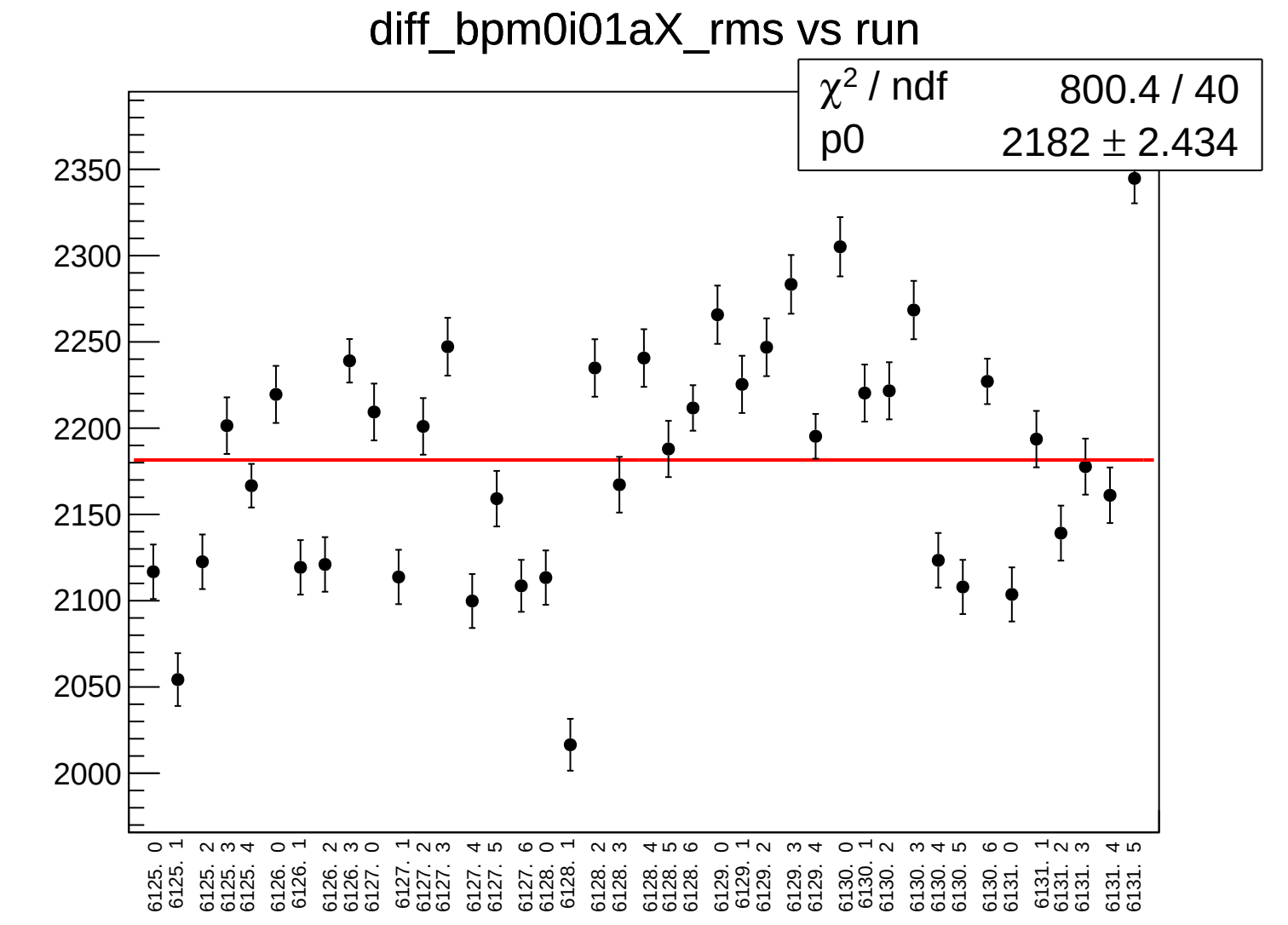

diff_bpm0i01Y_mean vs run
χ² / ndf 40.67 / 40
p0 11.4 ± 4.141
pull
Entries 41
Mean −53.87
Std Dev 0

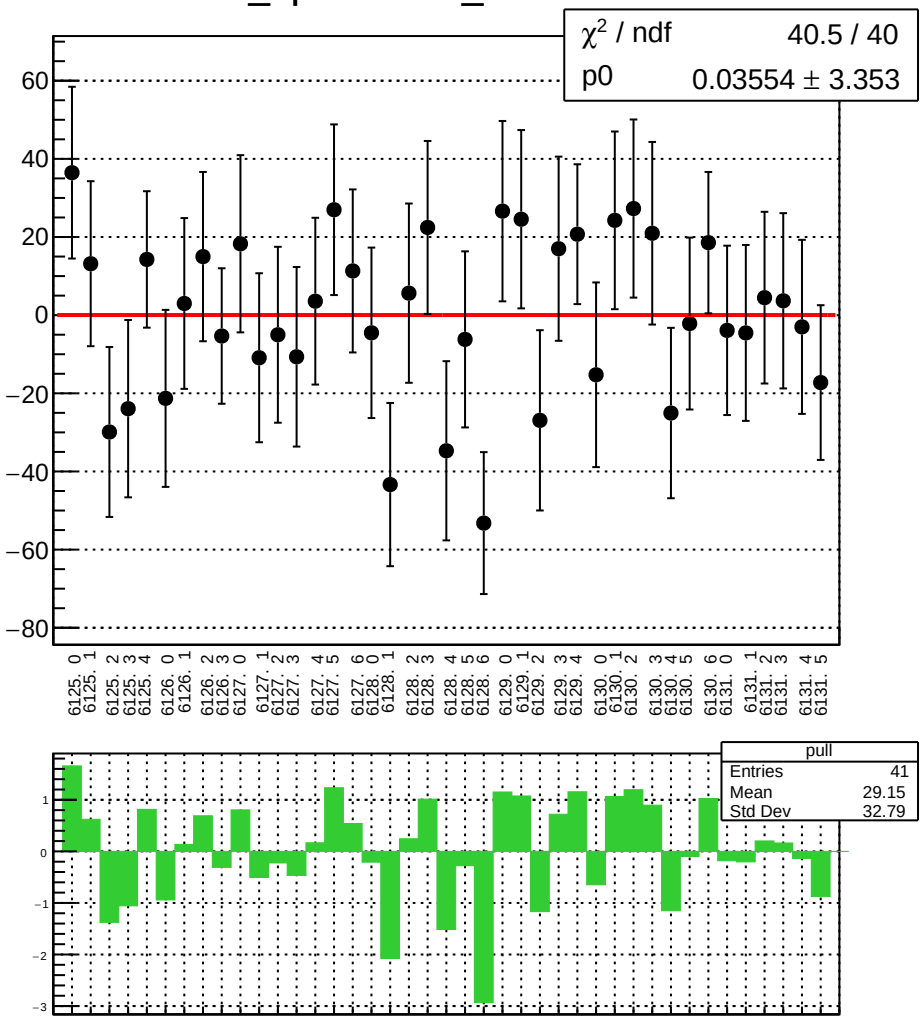

pull1D
Entries 41
Mean 0.006266
Std Dev 0.9959

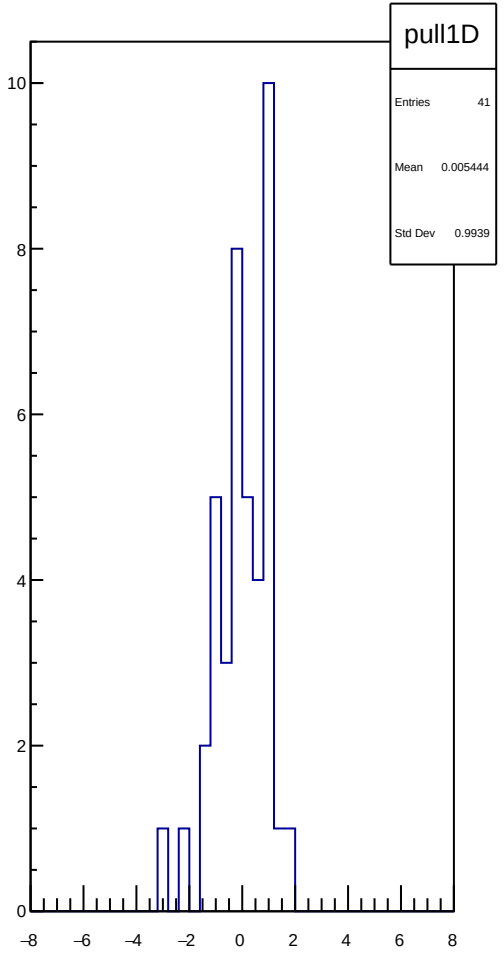

diff_bpm0i01Y_rms vs run
χ² / ndf 820.5 / 40
p0 2625 ± 2.928
2800
2700
2600
2500
2400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

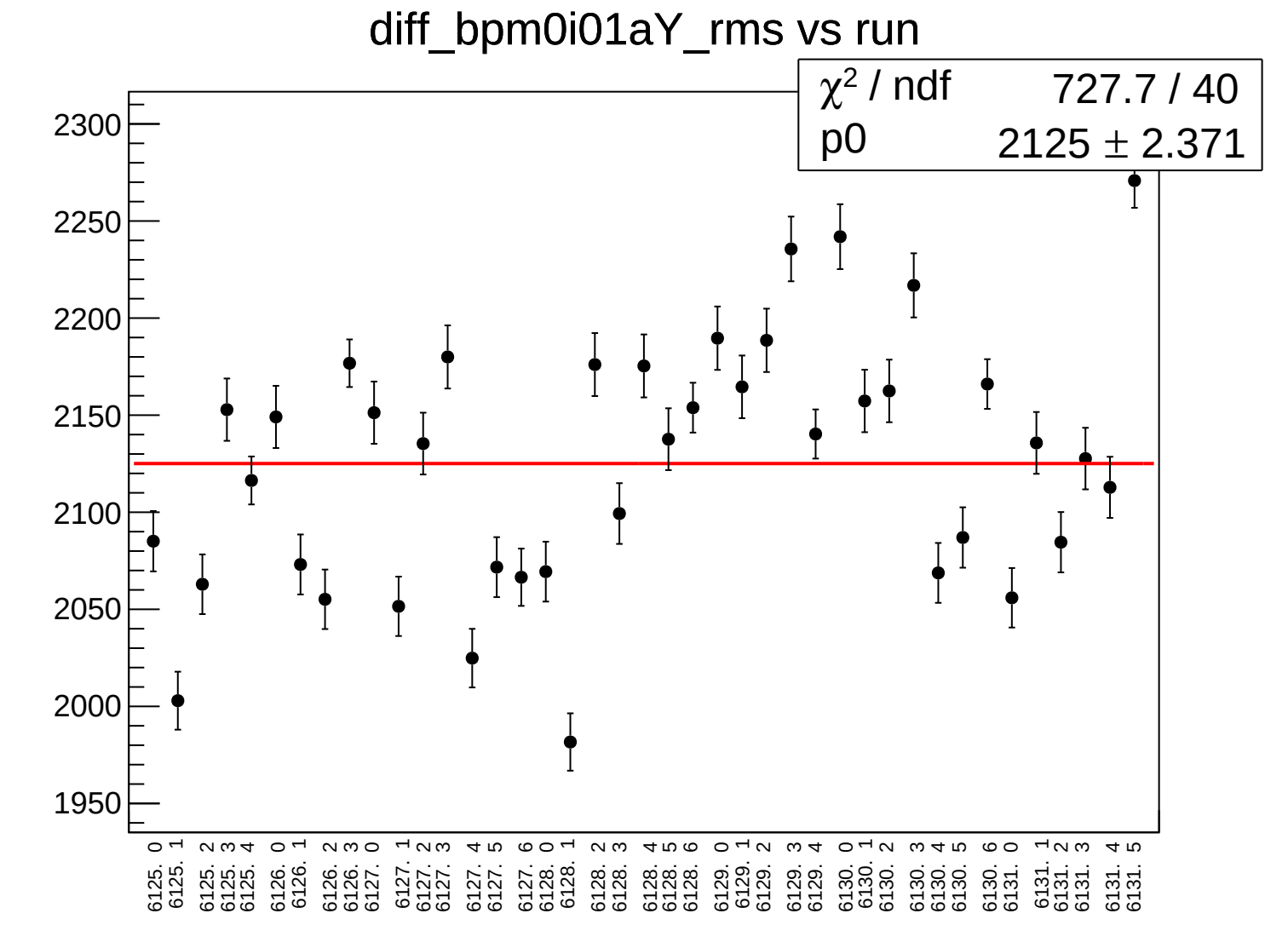

diff_bpm0i01aX_mean vs run
χ² / ndf 32.07 / 40
p0 16.05 ± 3.442
pull
Entries 41
Mean 10.66
Std Dev 8.079

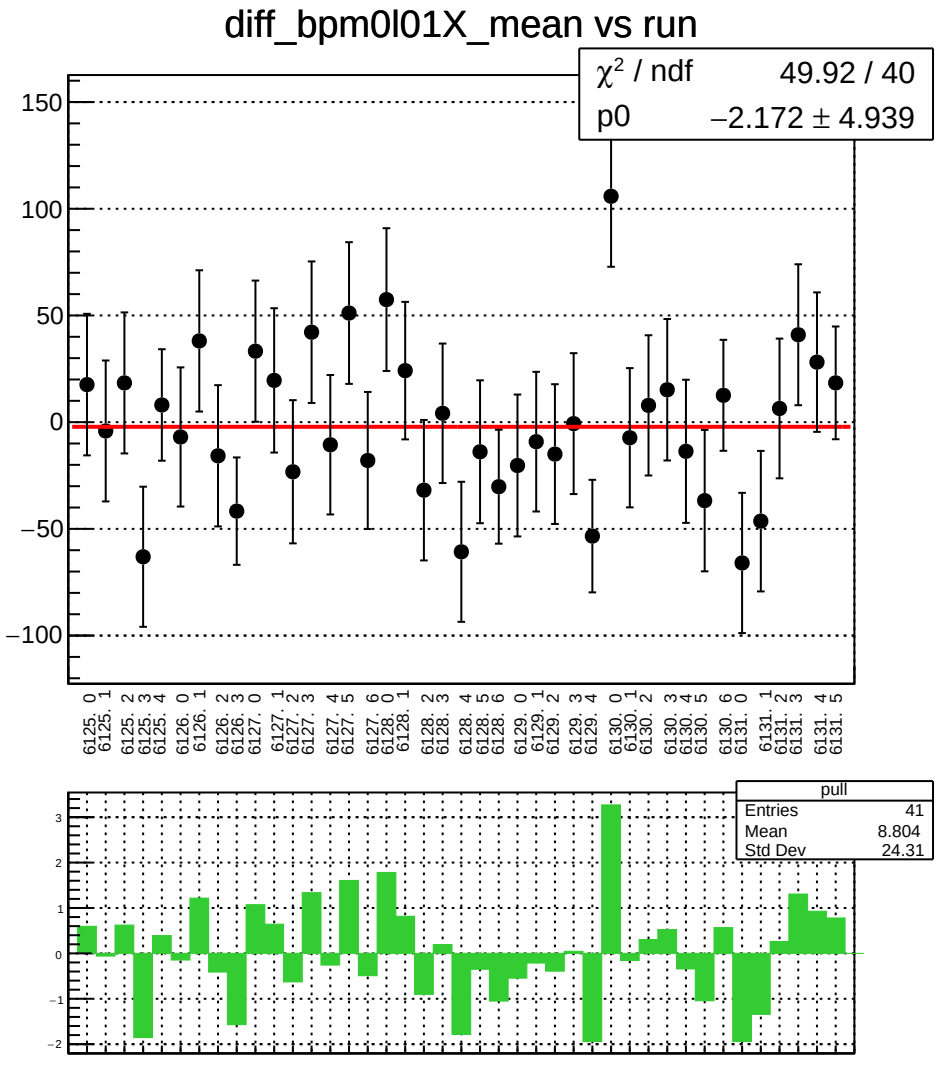

pull1D
Entries 41
Mean 0.01007
Std Dev 0.8844

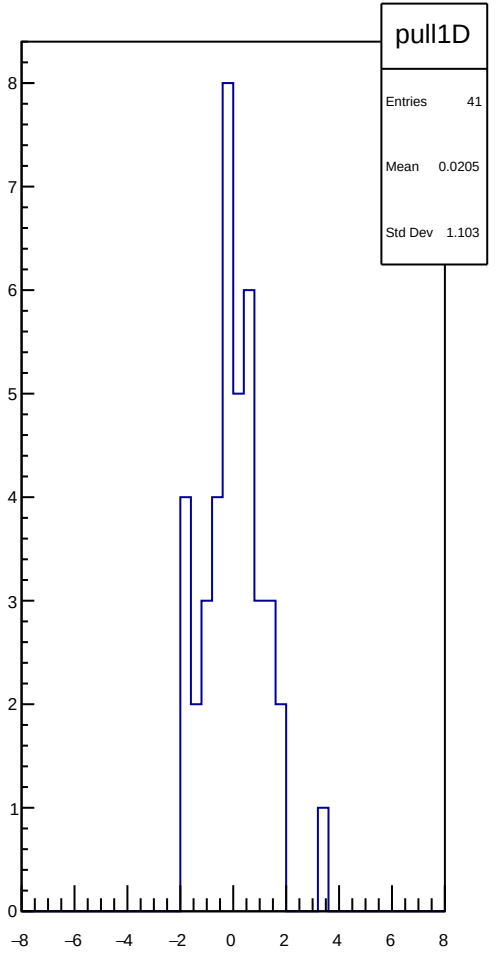

diff_bpm0i01aX_rms vs run
χ² / ndf 800.4 / 40
p0 2182 ± 2.434
2350
2300
2250
2200
2150
2100
2050
2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

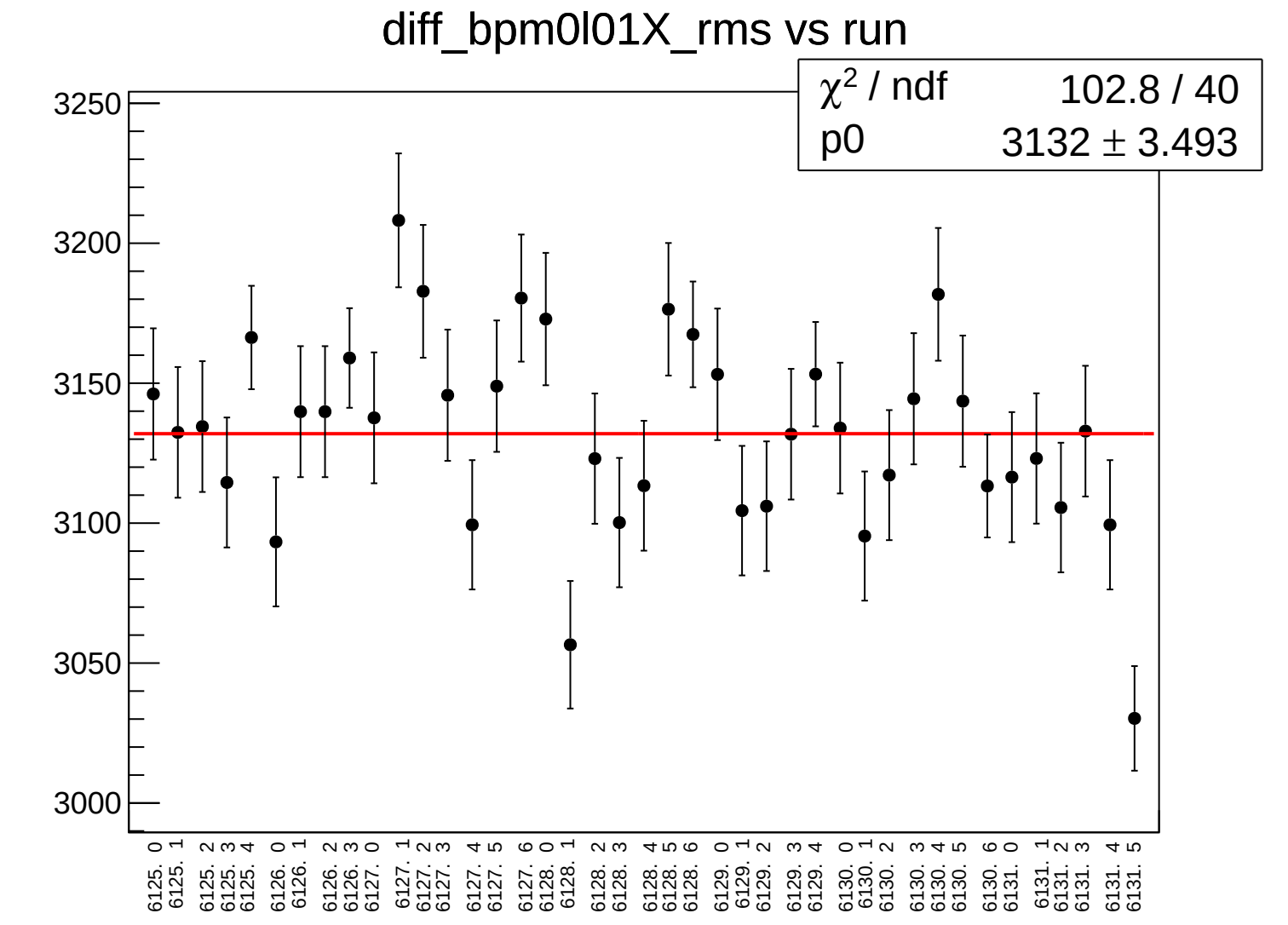

diff_bpm0i01aY_mean vs run
χ² / ndf 40.5 / 40
p0 0.03554 ± 3.353
pull
Entries 41
Mean 29.15
Std Dev 32.79

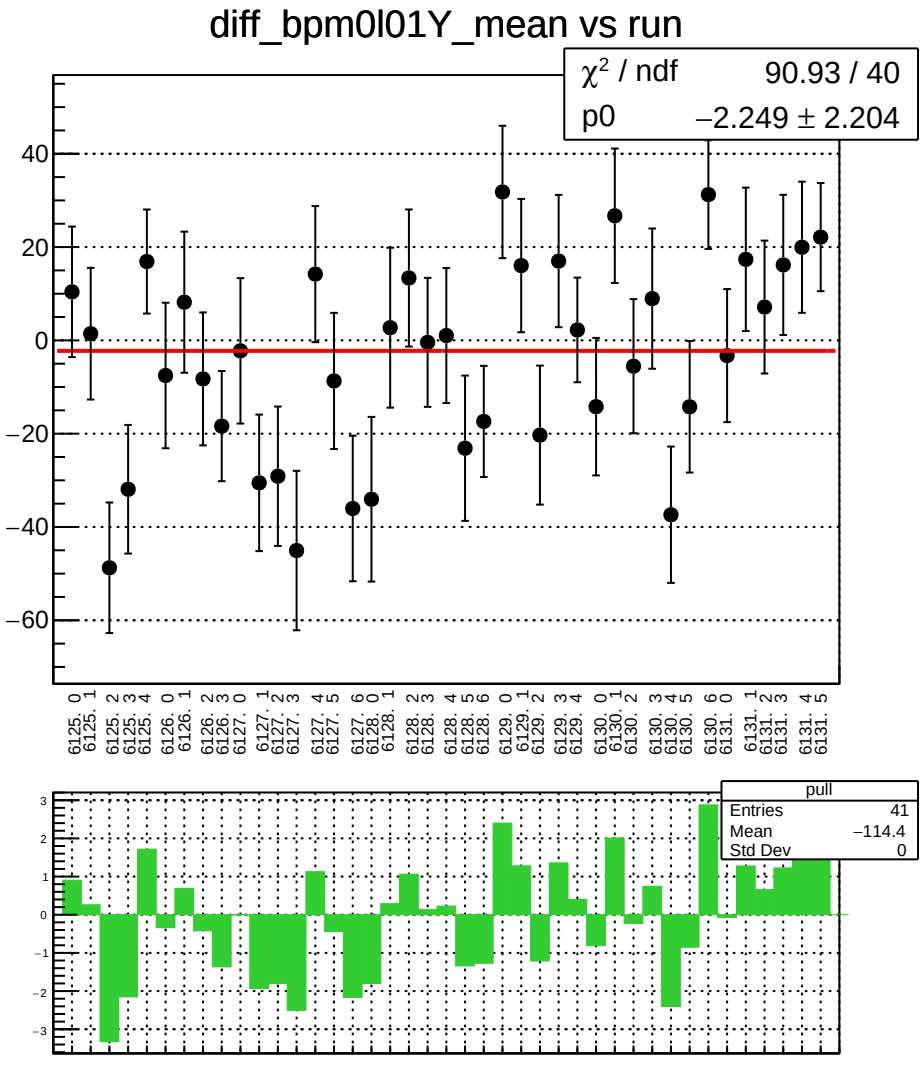

pull1D
Entries 41
Mean 0.005444
Std Dev 0.9939

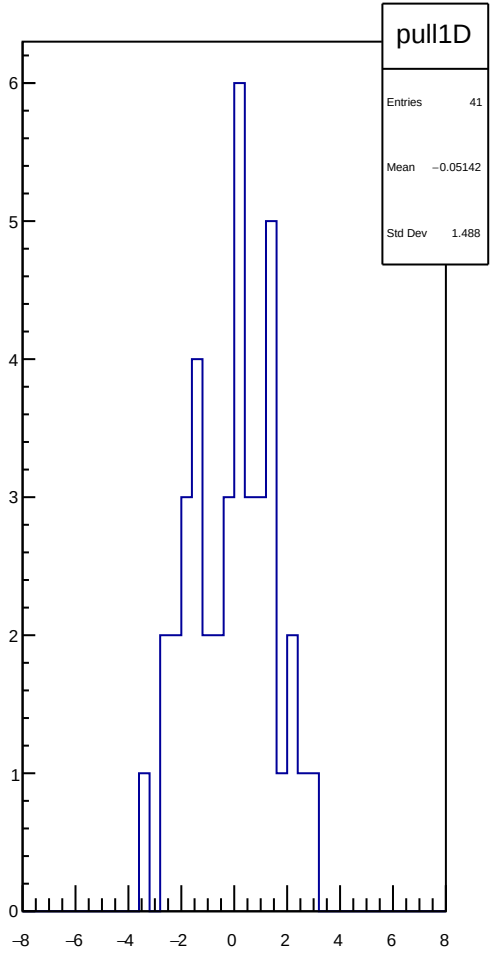

diff_bpm0i01aY_rms vs run
χ² / ndf 727.7 / 40
p0 2125 ± 2.371
2300
2250
2200
2150
2100
2050
2000
1950
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

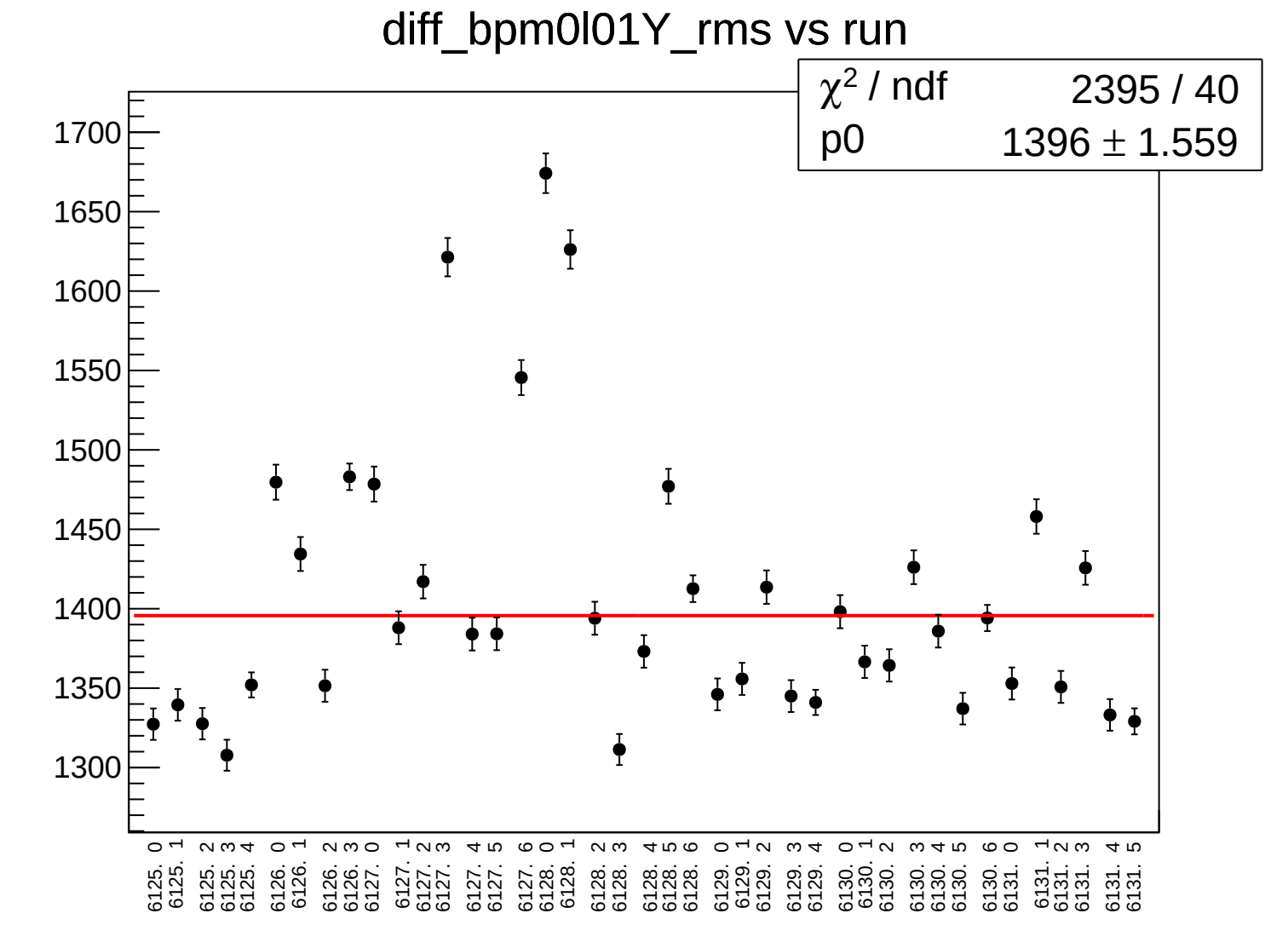

diff_bpm0l01X_mean vs run
χ² / ndf 49.92 / 40
p0 −2.172 ± 4.939
150
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 8.804
Std Dev 24.31
3
2
1
0
−1
−2

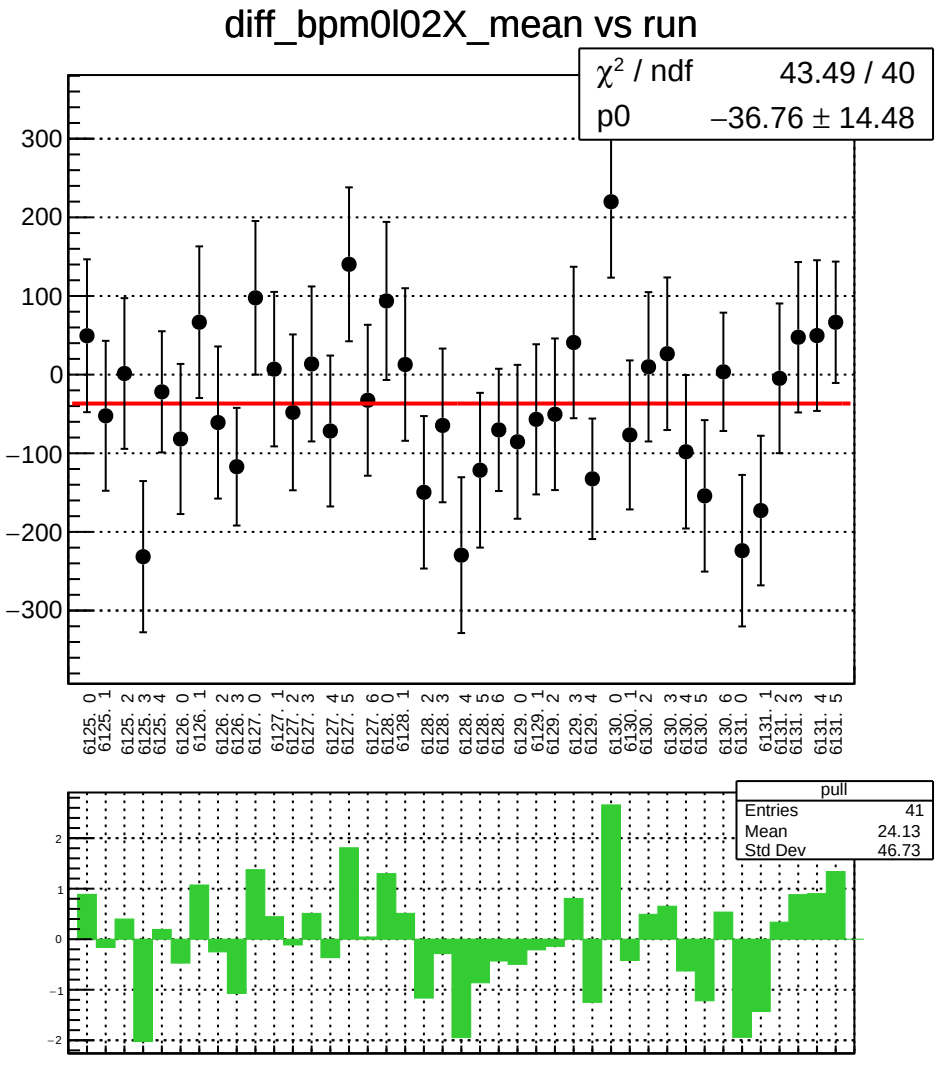

pull1D
Entries 41
Mean 0.0205
Std Dev 1.103
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

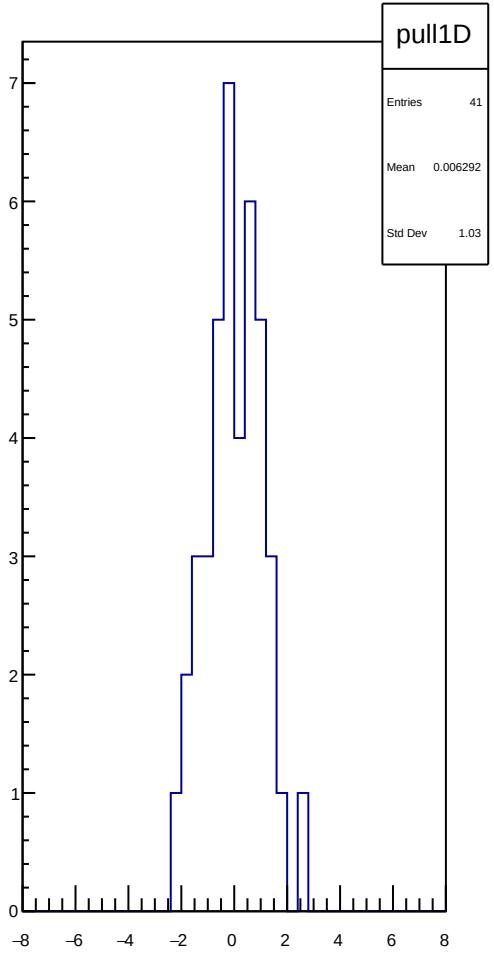

diff_bpm0l01X_rms vs run
χ² / ndf 102.8 / 40
p0 3132 ± 3.493
3250
3200
3150
3100
3050
3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

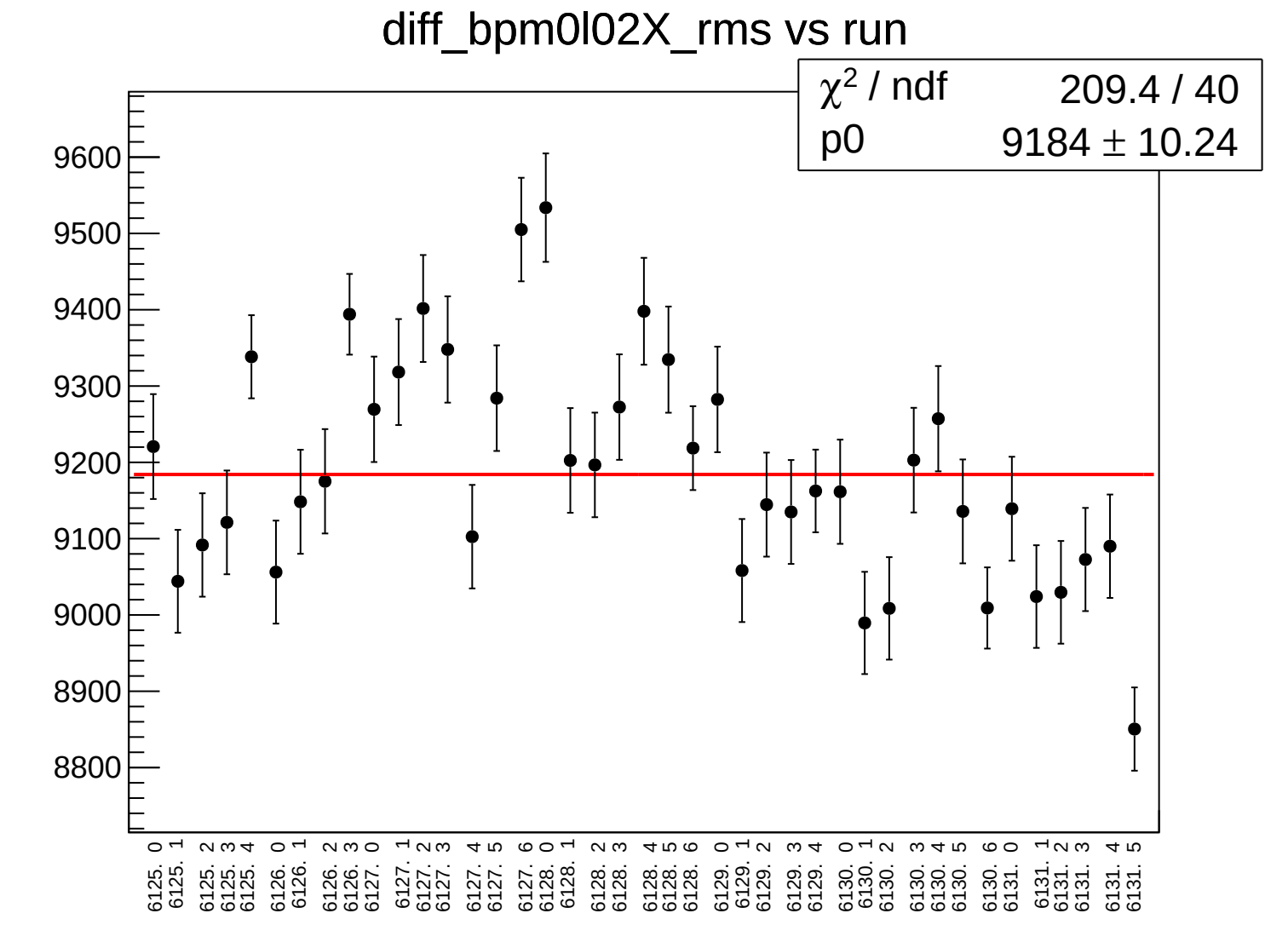

diff_bpm0l01Y_mean vs run
χ² / ndf 90.93 / 40
p0 −2.249 ± 2.204
40
20
0
−20
−40
−60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −114.4
Std Dev 0
3
2
1
0
−1
−2
−3

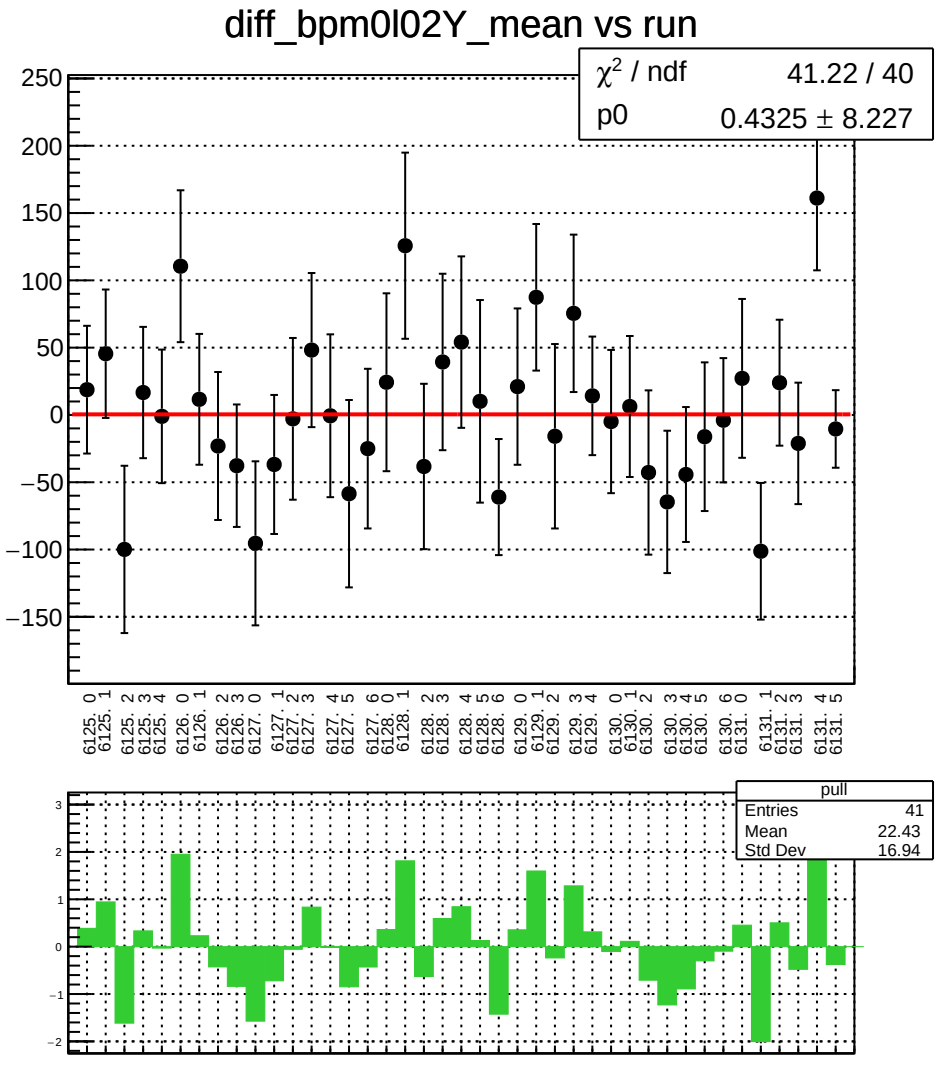

pull1D
Entries 41
Mean −0.05142
Std Dev 1.488
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

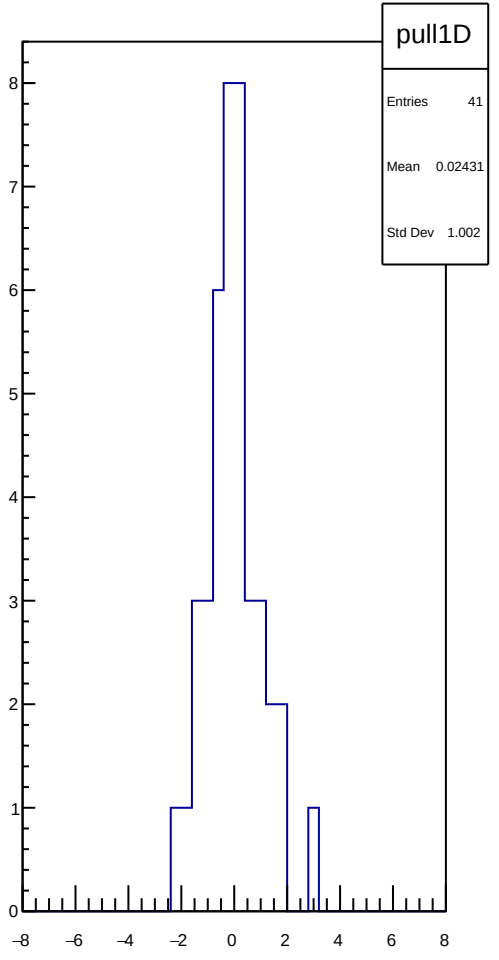

diff_bpm0l01Y_rms vs run
χ² / ndf 2395 / 40
p0 1396 ± 1.559
1700
1650
1600
1550
1500
1450
1400
1350
1300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

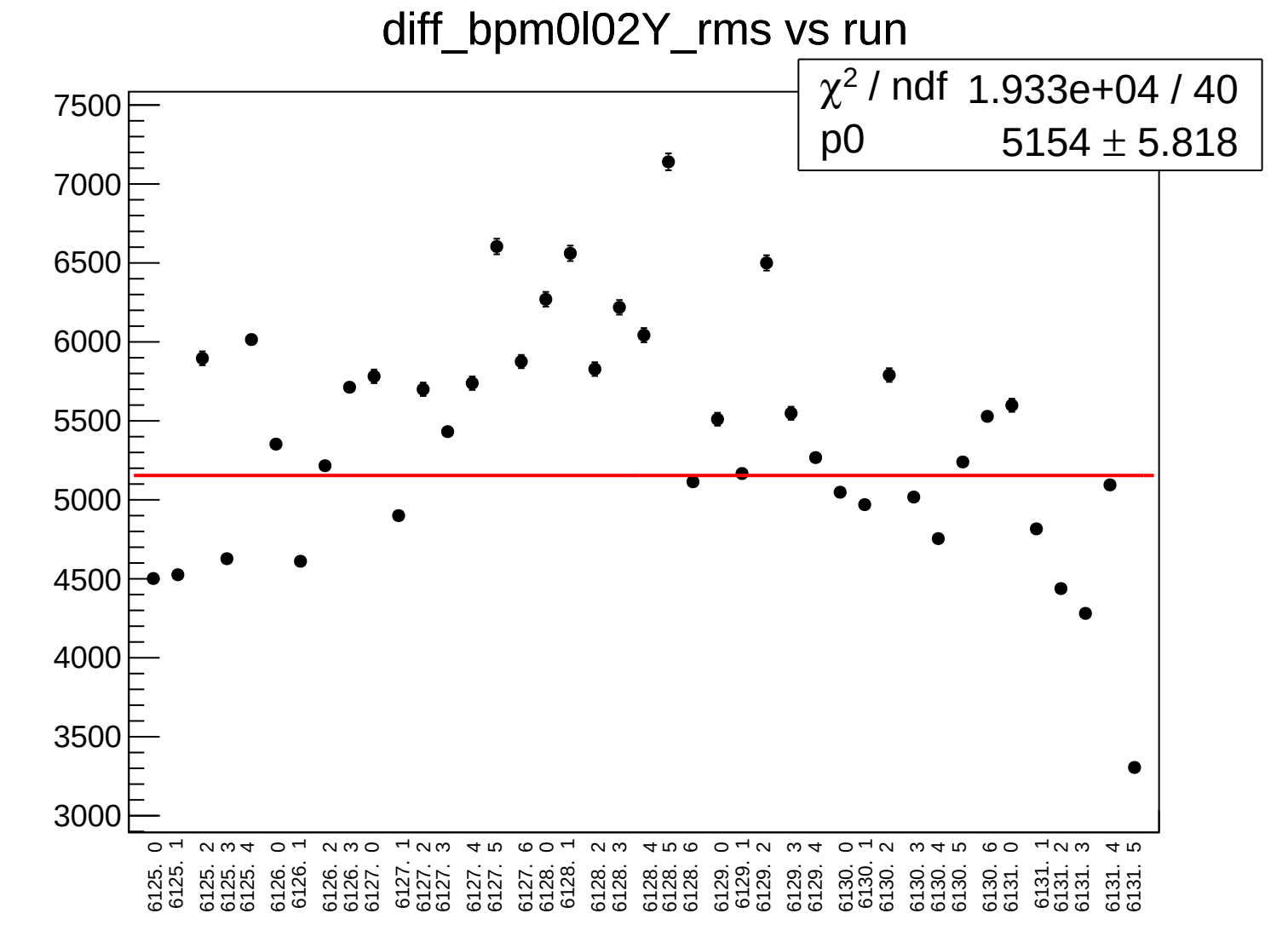

diff_bpm0l02X_mean vs run
χ² / ndf 43.49 / 40
p0 −36.76 ± 14.48
300
200
100
0
−100
−200
−300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 24.13
Std Dev 46.73
2
1
0
−1
−2

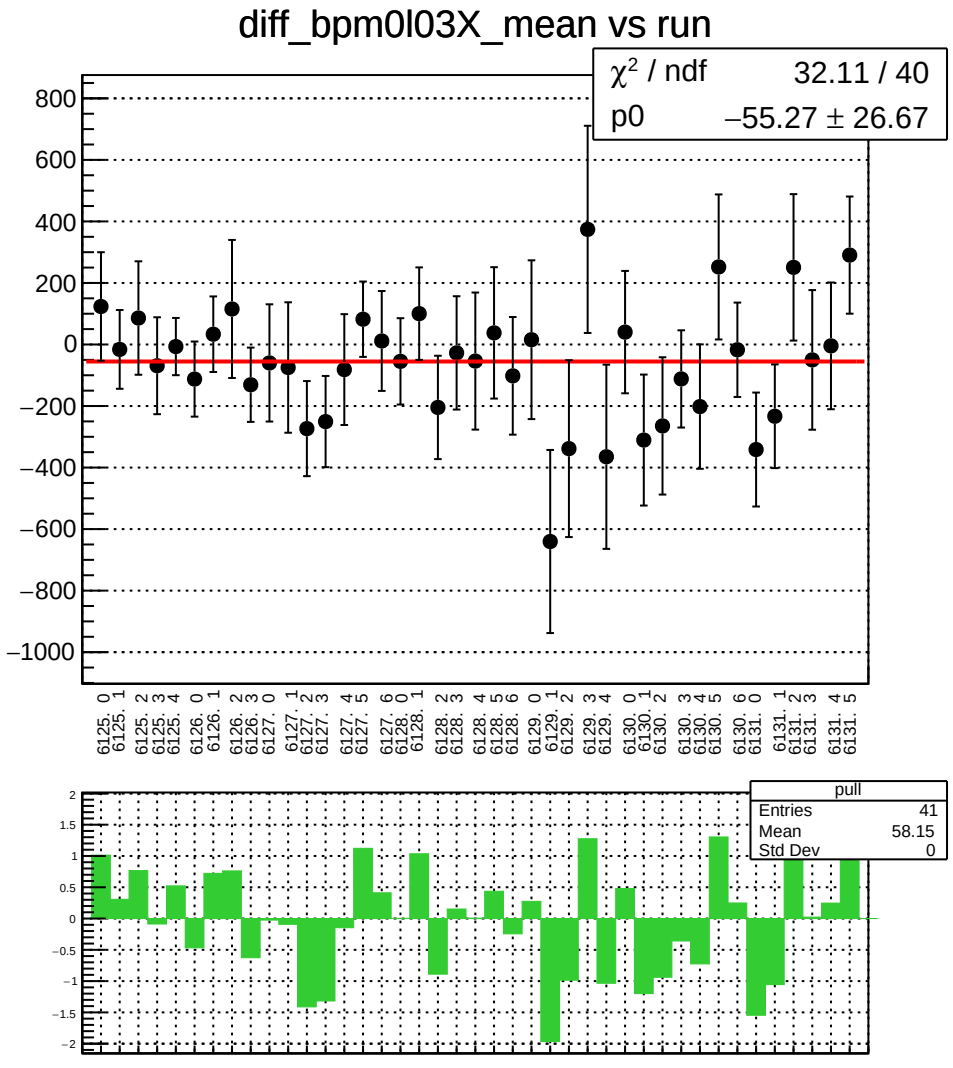

pull1D
Entries 41
Mean 0.006292
Std Dev 1.03
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

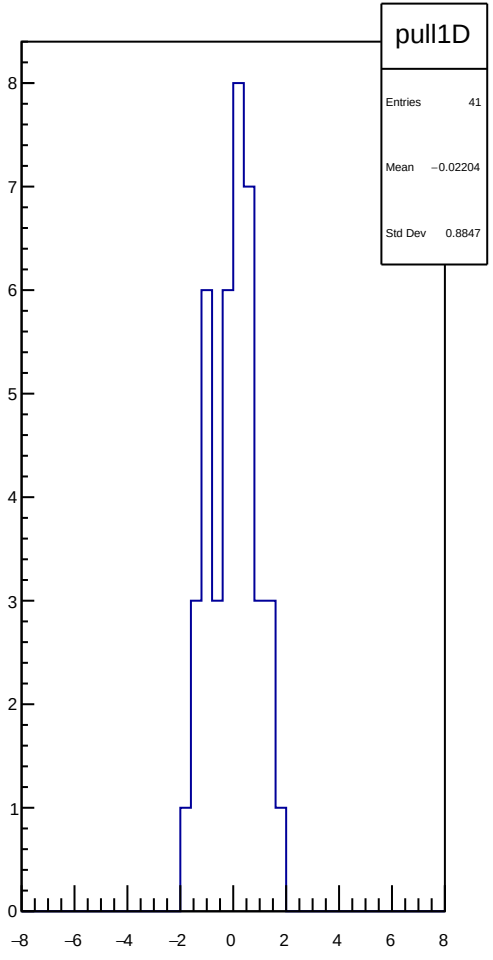

diff_bpm0l02X_rms vs run
χ² / ndf 209.4 / 40
p0 9184 ± 10.24
9600
9500
9400
9300
9200
9100
9000
8900
8800
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

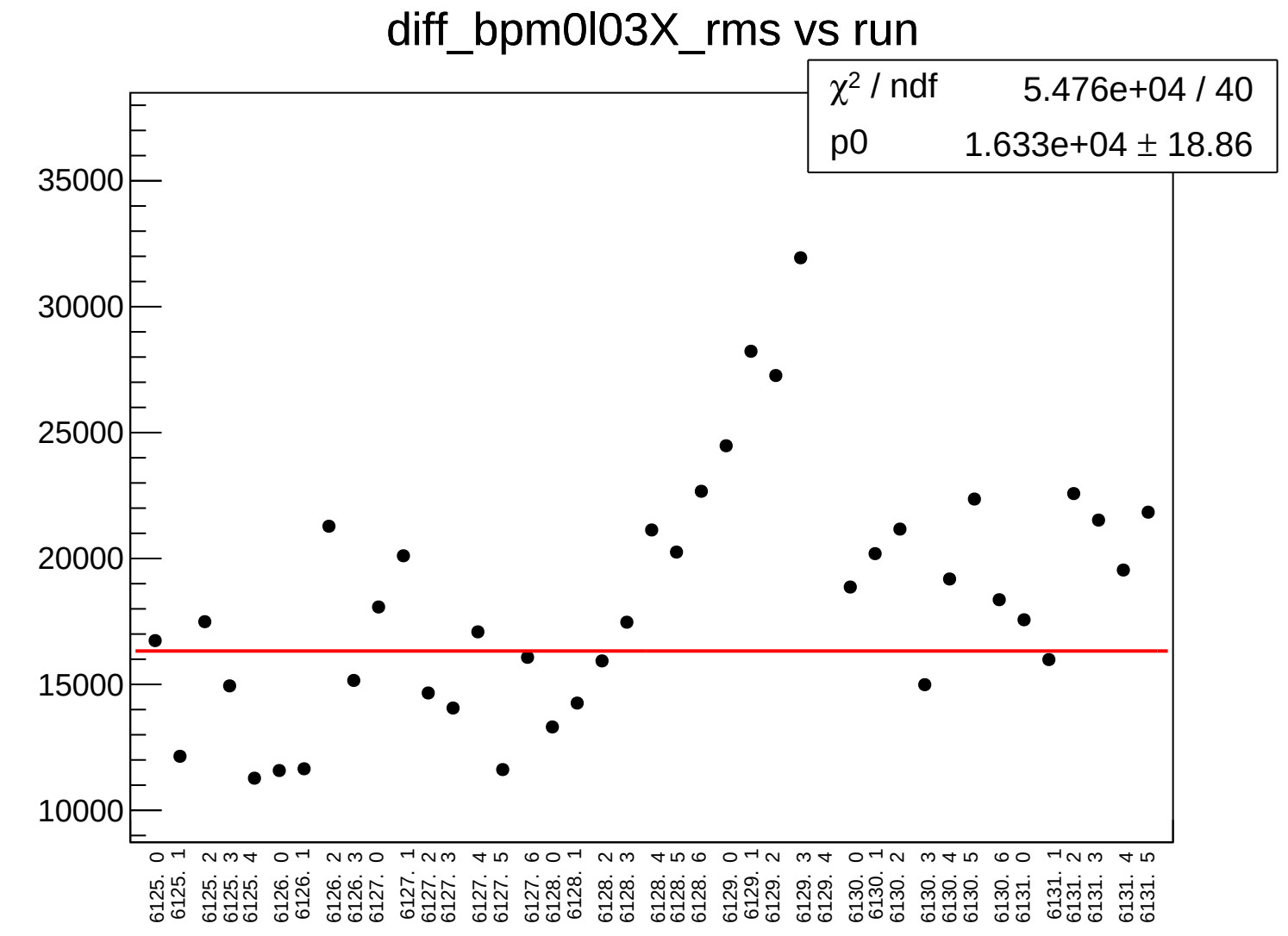

diff_bpm0l02Y_mean vs run
χ² / ndf 41.22 / 40
p0 0.4325 ± 8.227
250
200
150
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 22.43
Std Dev 16.94
3
2
1
0
−1
−2

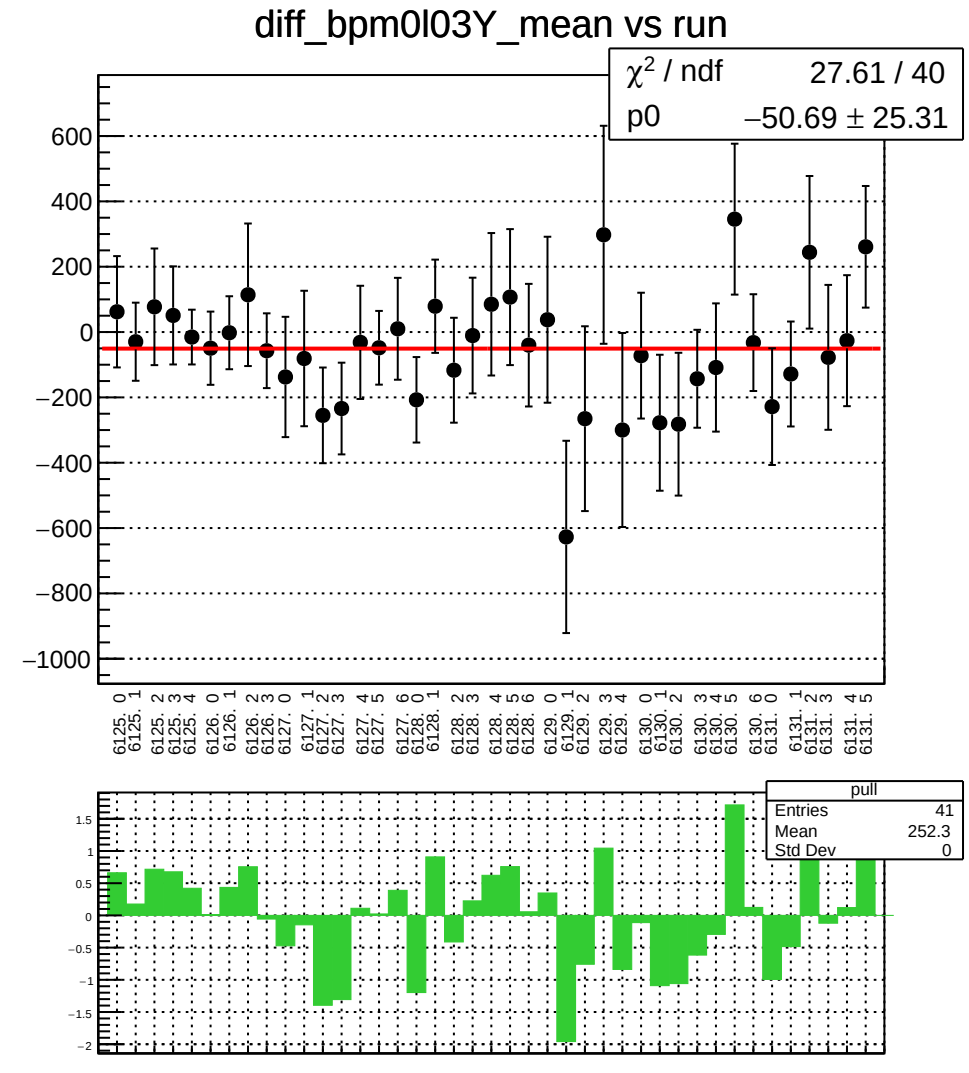

pull1D
Entries 41
Mean 0.02431
Std Dev 1.002
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

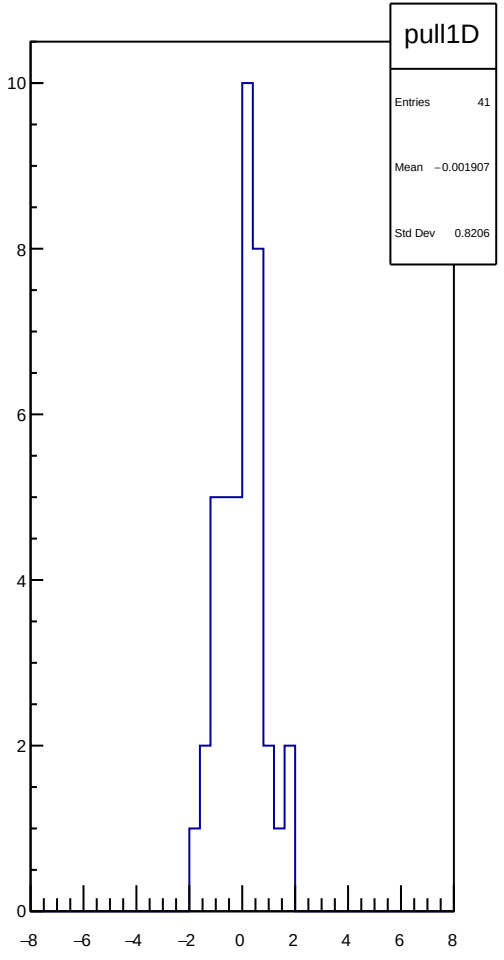

diff_bpm0l02Y_rms vs run
χ² / ndf 1.933e+04 / 40
p0 5154 ± 5.818
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

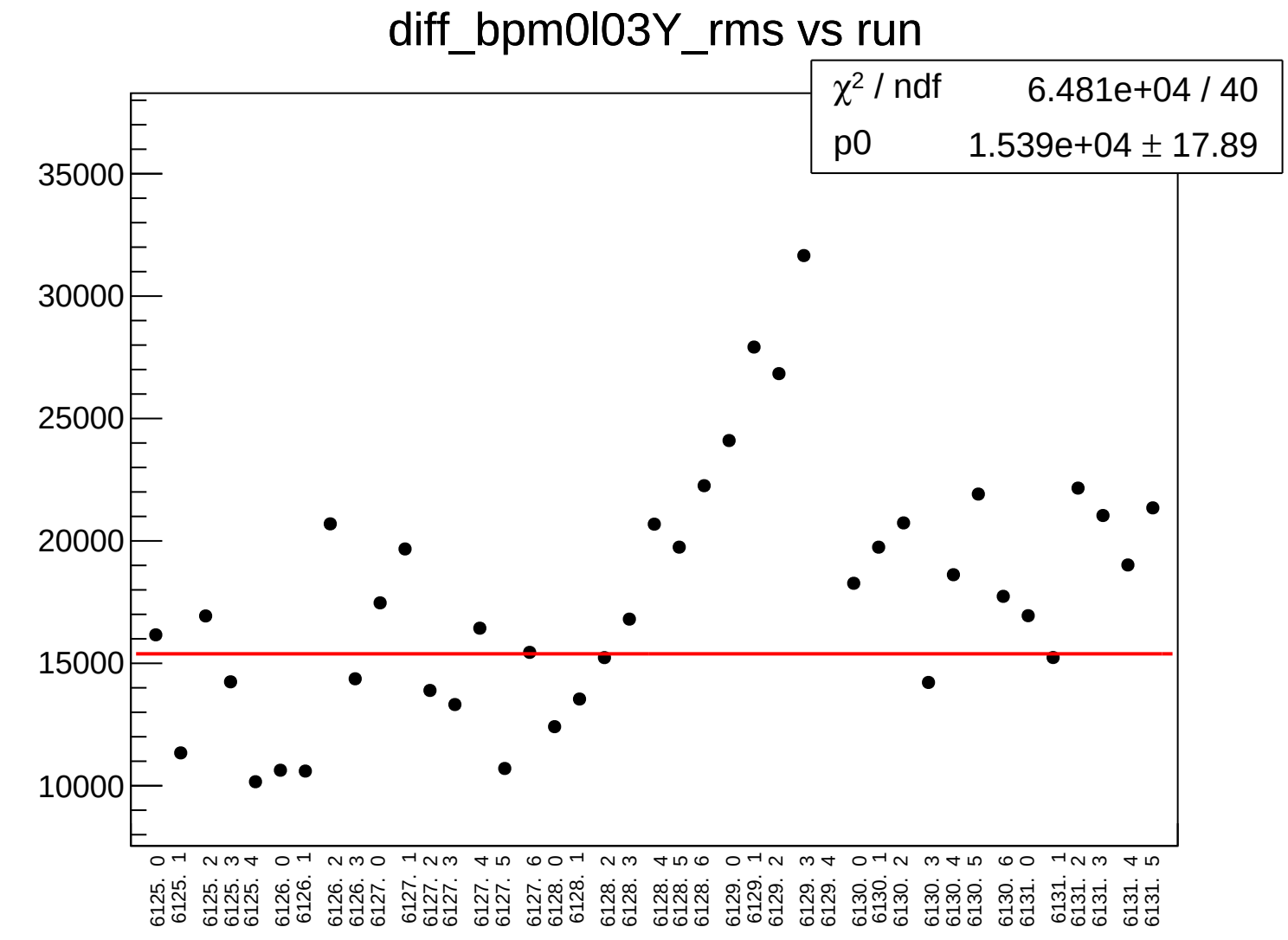

diff_bpm0l03X_mean vs run
χ² / ndf 32.11 / 40
p0 −55.27 ± 26.67
pull
Entries 41
Mean 58.15
Std Dev 0

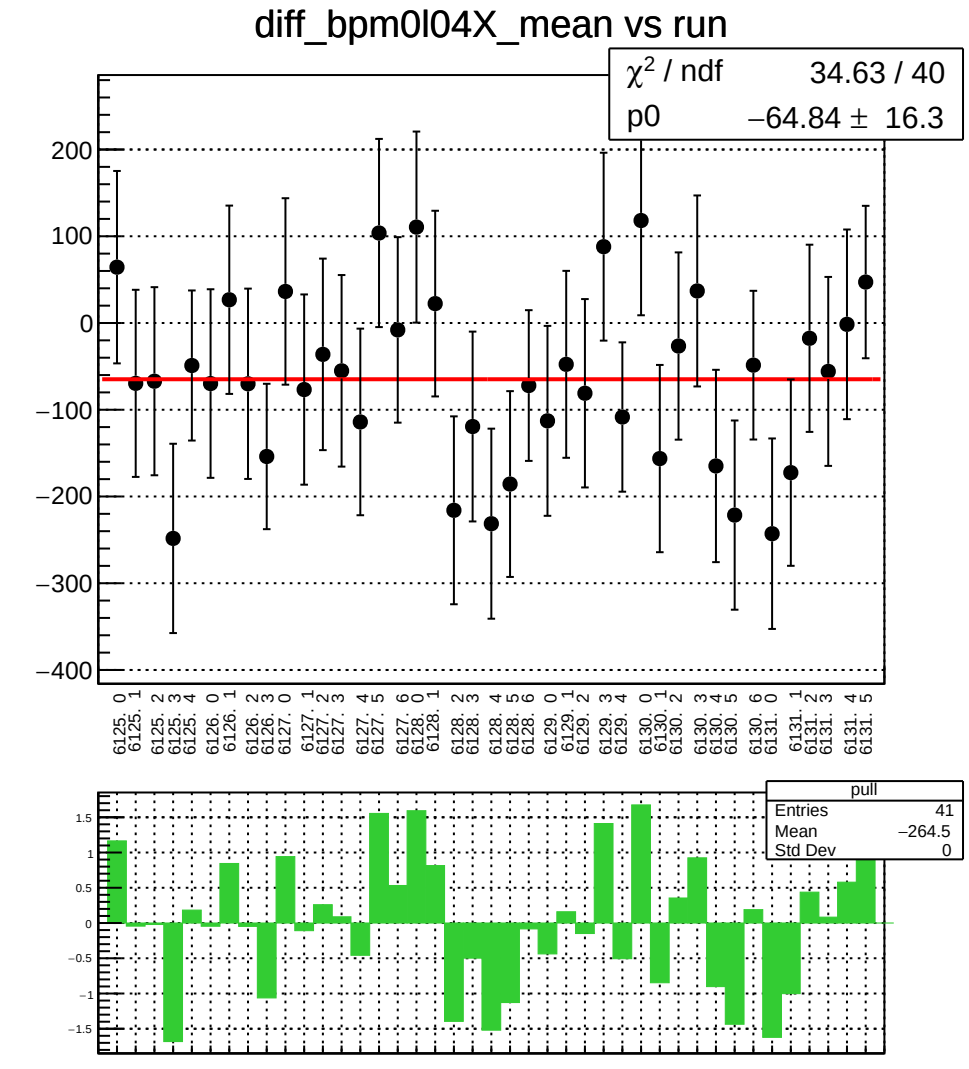

pull1D
Entries 41
Mean −0.02204
Std Dev 0.8847

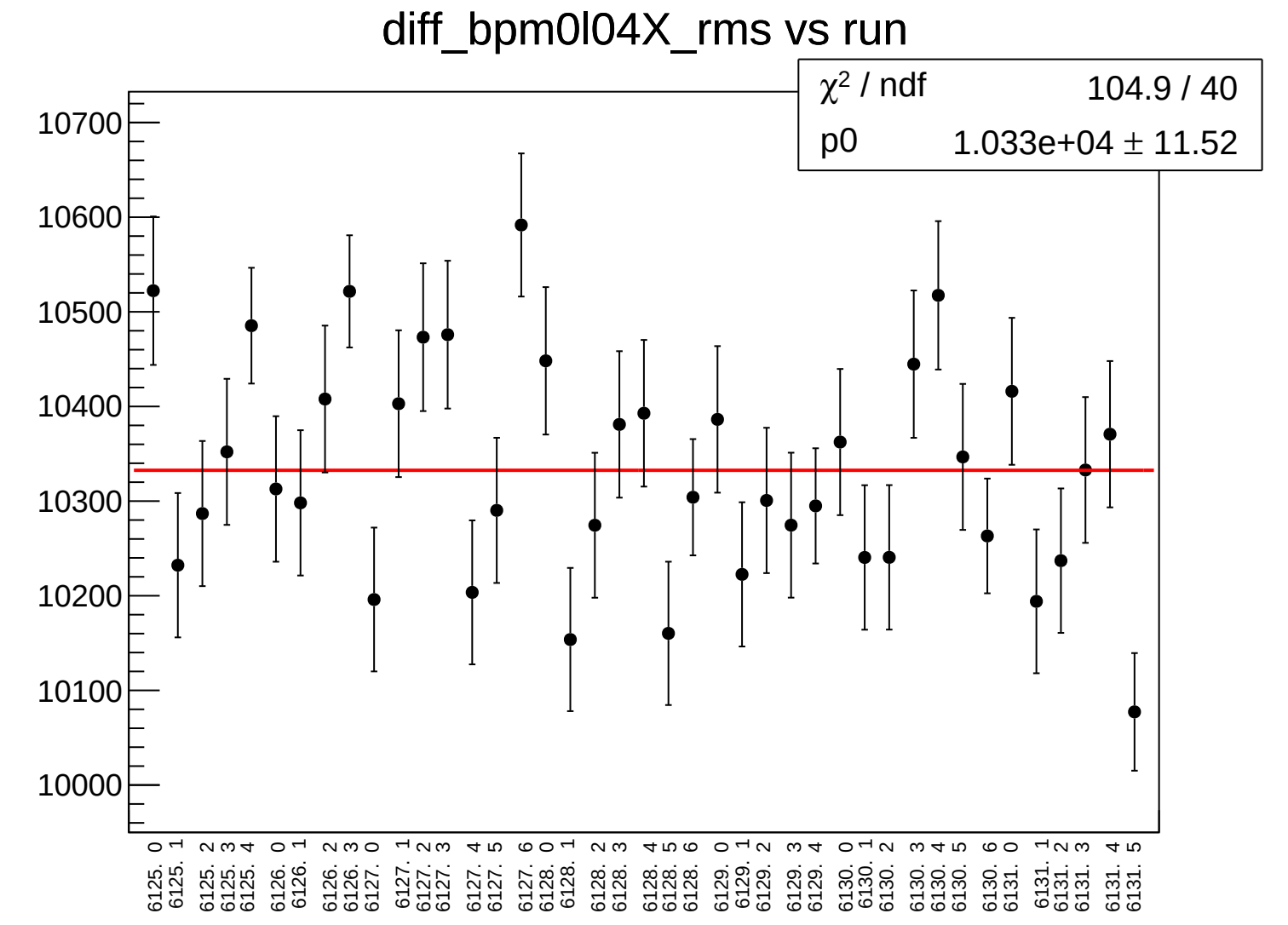

diff_bpm0l03X_rms vs run
χ² / ndf 5.476e+04 / 40
p0 1.633e+04 ± 18.86
35000
30000
25000
20000
15000
10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

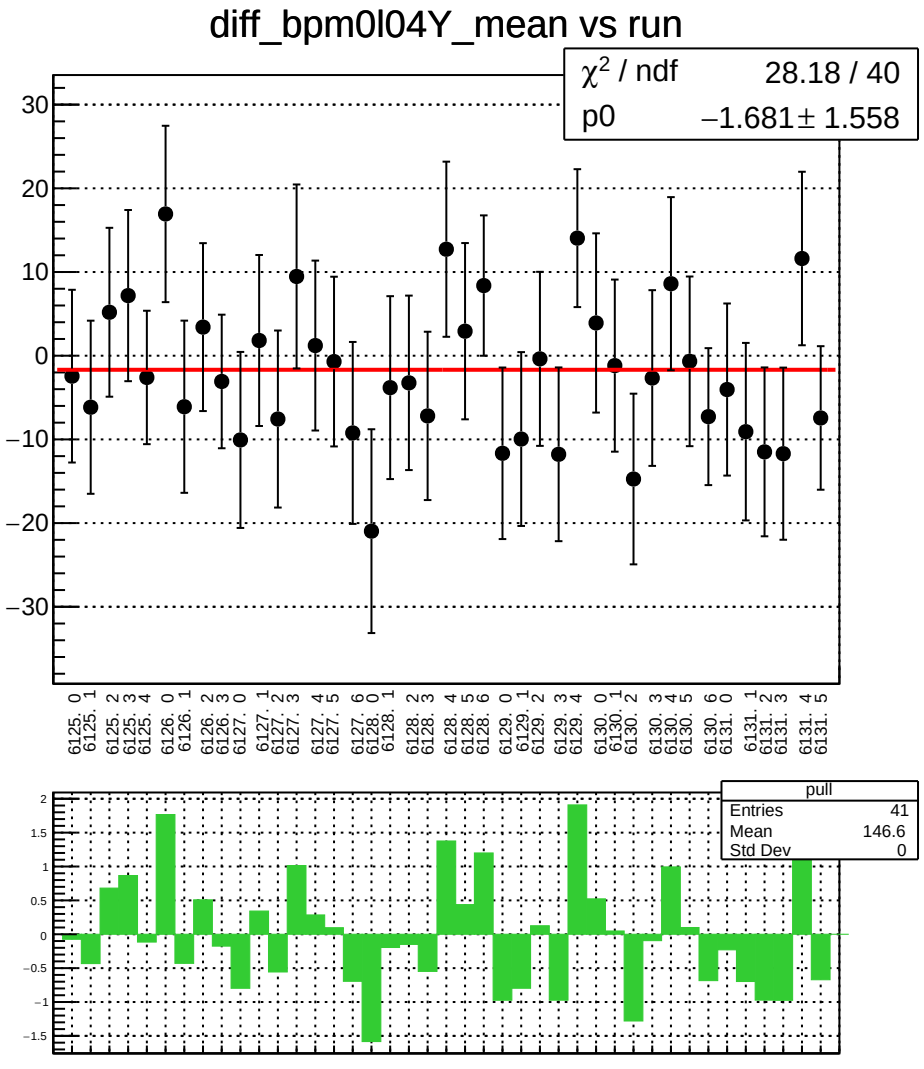

diff_bpm0l03Y_mean vs run
χ² / ndf 27.61 / 40
p0 −50.69 ± 25.31
600
400
200
0
−200
−400
−600
−800
−1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 252.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

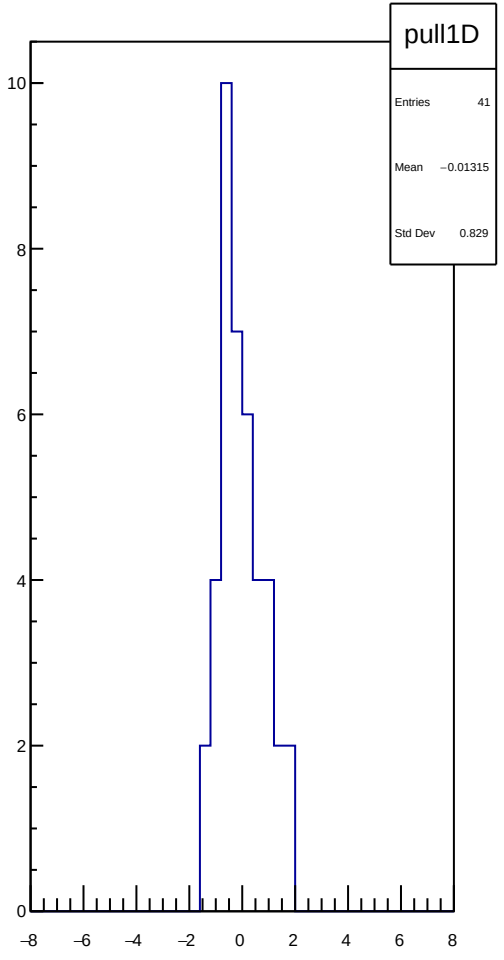

pull1D
Entries 41
Mean −0.001907
Std Dev 0.8206
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

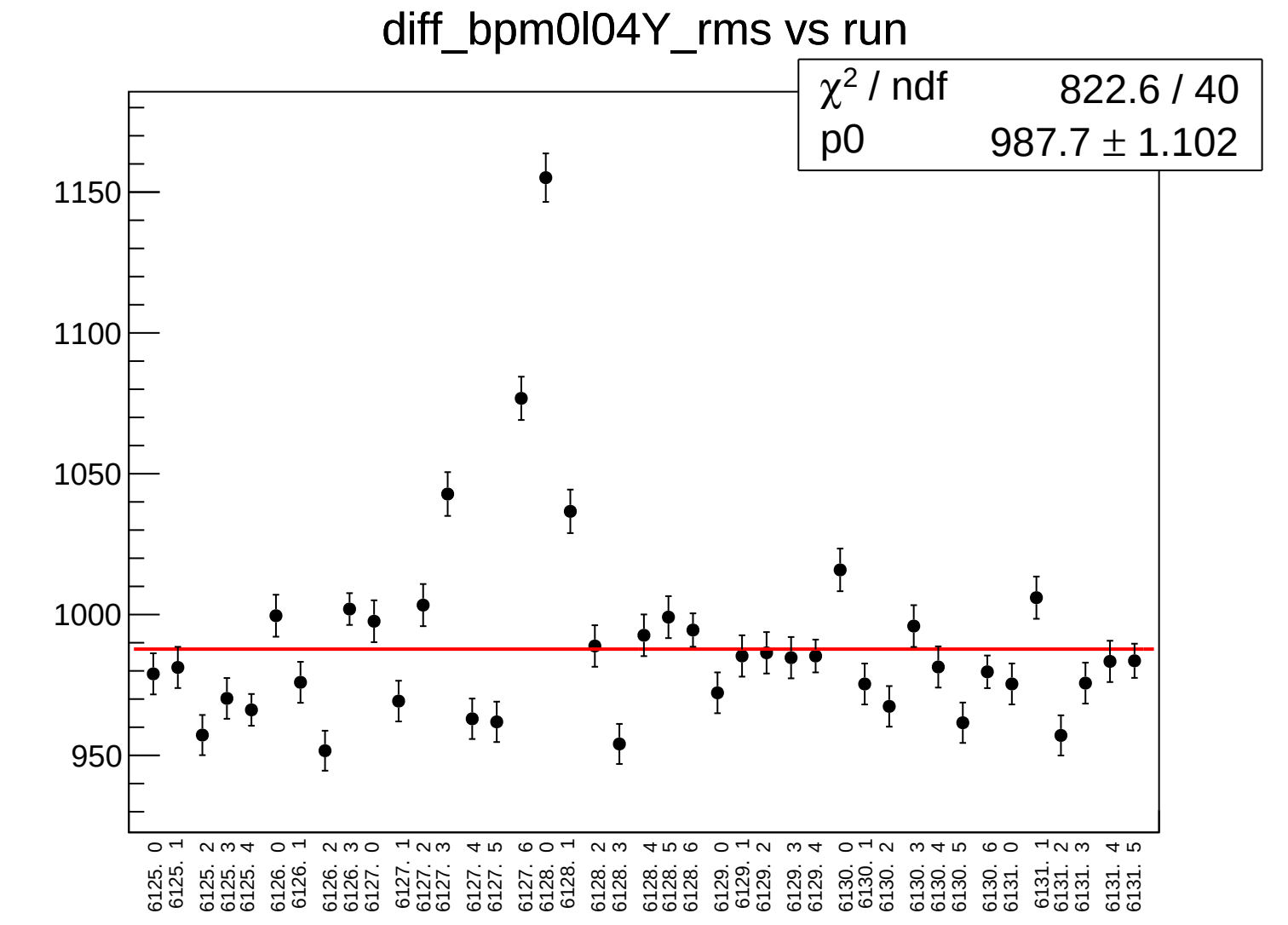

diff_bpm0l03Y_rms vs run
χ² / ndf 6.481e+04 / 40
p0 1.539e+04 ± 17.89
35000
30000
25000
20000
15000
10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

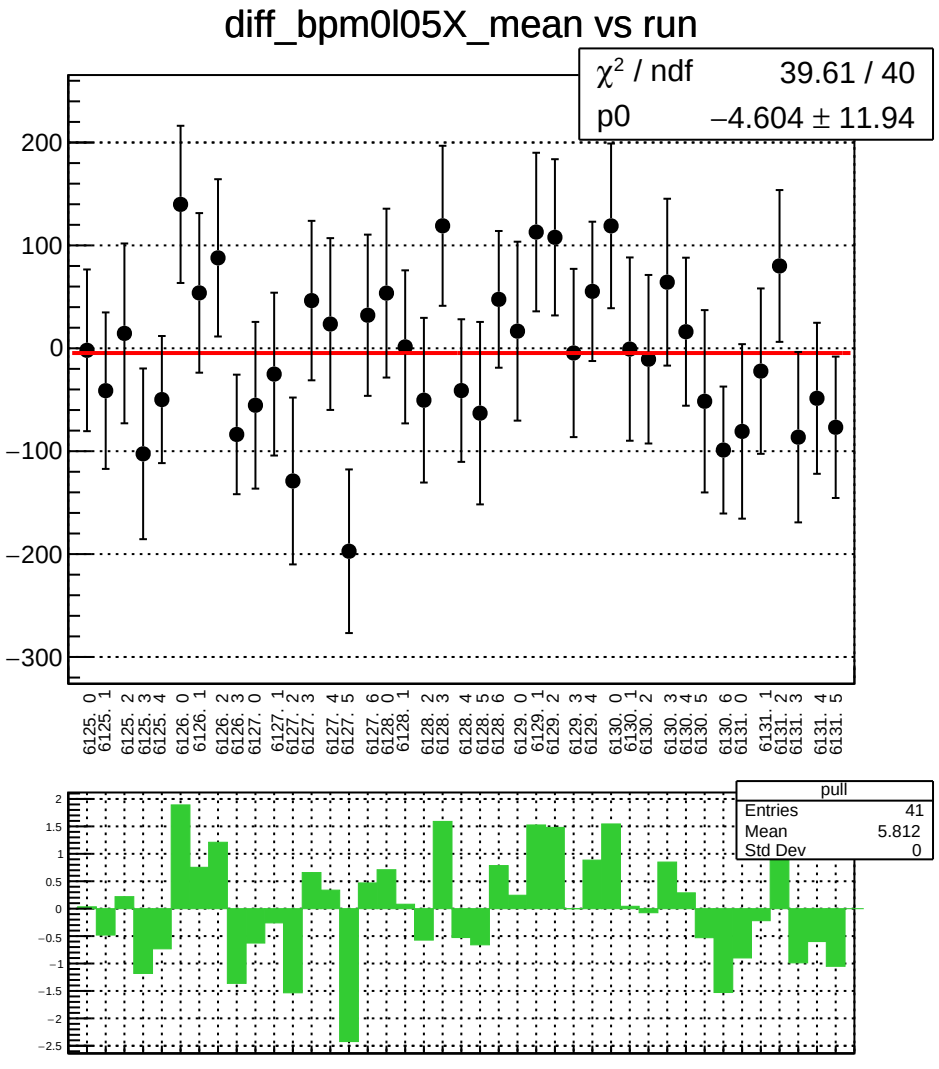

diff_bpm0l04X_mean vs run
χ² / ndf 34.63 / 40
p0 −64.84 ± 16.3
200
100
0
−100
−200
−300
−400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −264.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.001786
Std Dev 0.9191
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

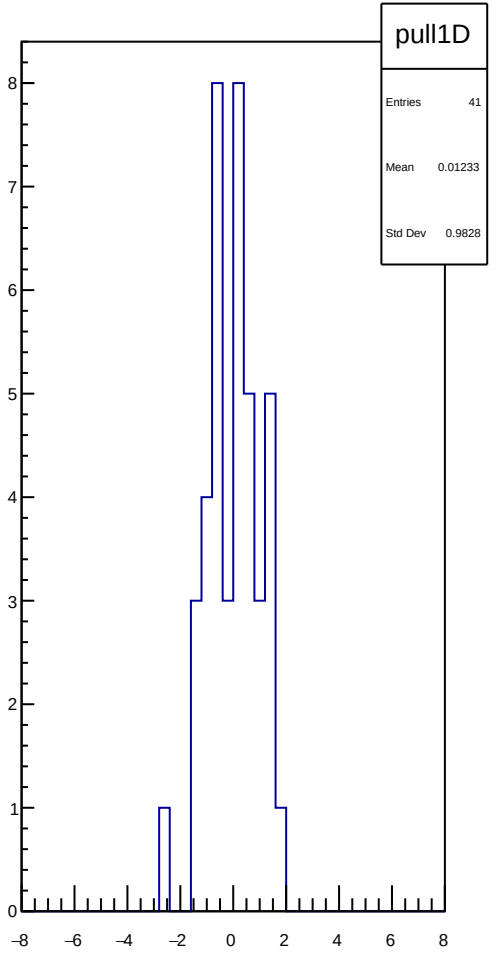

diff_bpm0l04X_rms vs run
χ² / ndf 104.9 / 40
p0 1.033e+04 ± 11.52
10700
10600
10500
10400
10300
10200
10100
10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

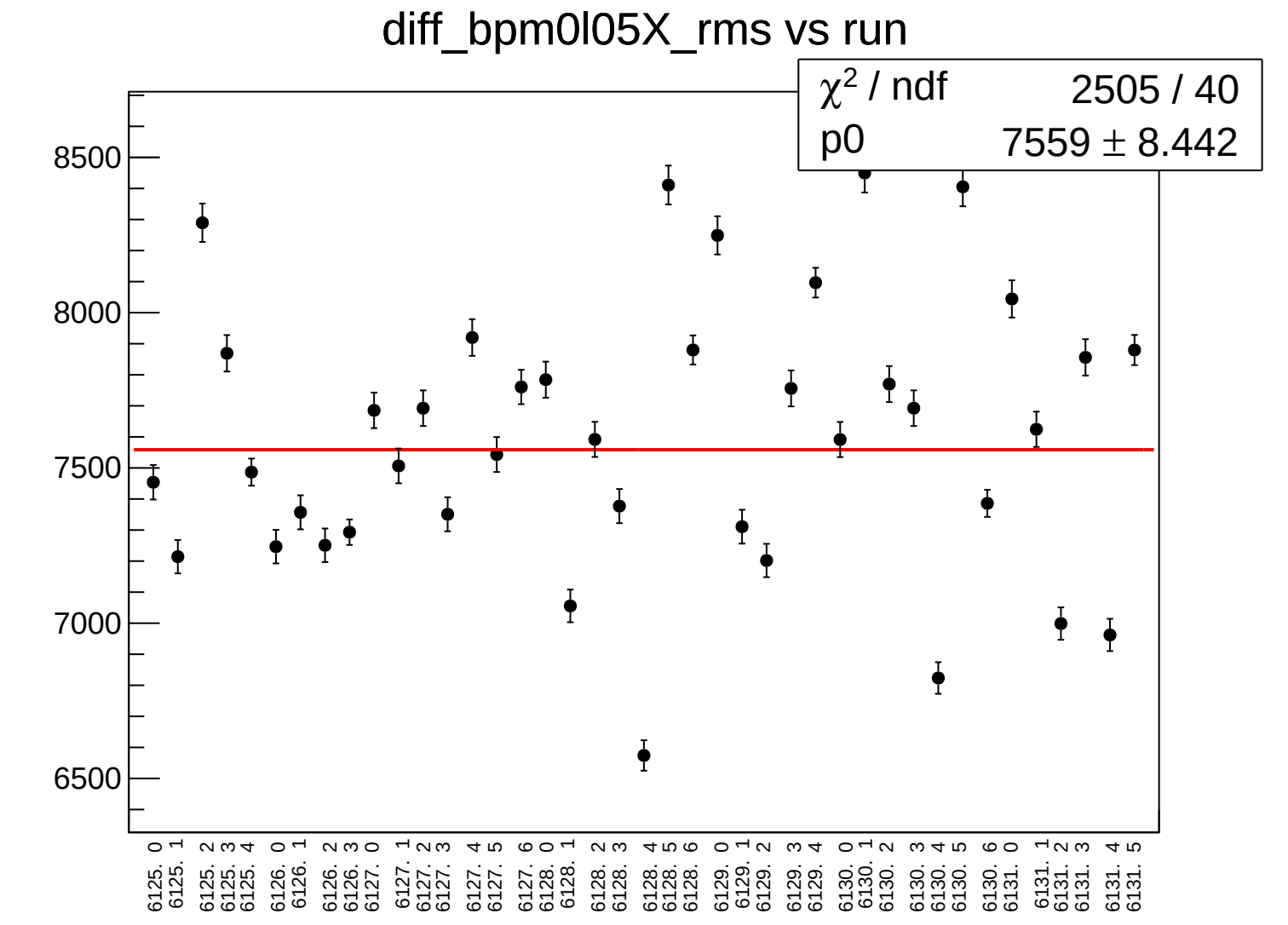

diff_bpm0l04Y_mean vs run
χ² / ndf 28.18 / 40
p0 −1.681± 1.558
30
20
10
0
−10
−20
−30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 146.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

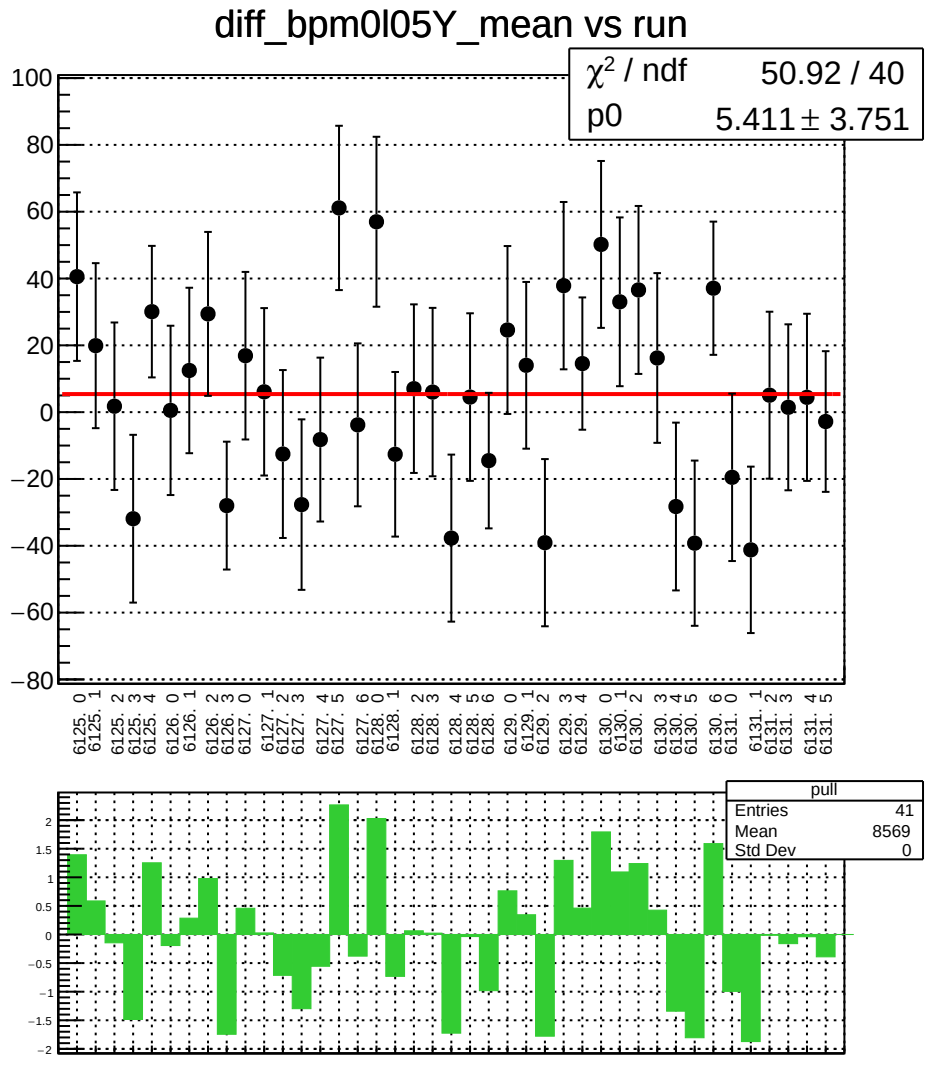

pull1D
Entries 41
Mean −0.01315
Std Dev 0.829
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

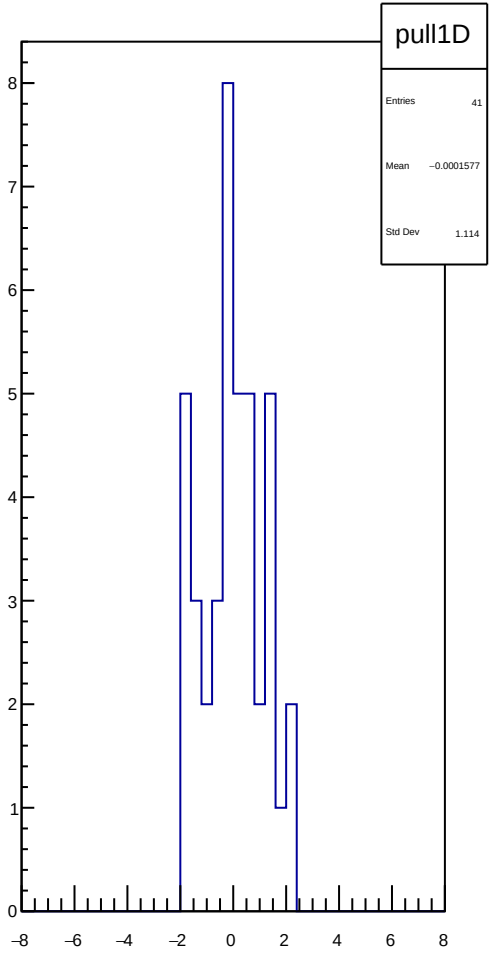

diff_bpm0l04Y_rms vs run
χ² / ndf 822.6 / 40
p0 987.7 ± 1.102
1150
1100
1050
1000
950
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

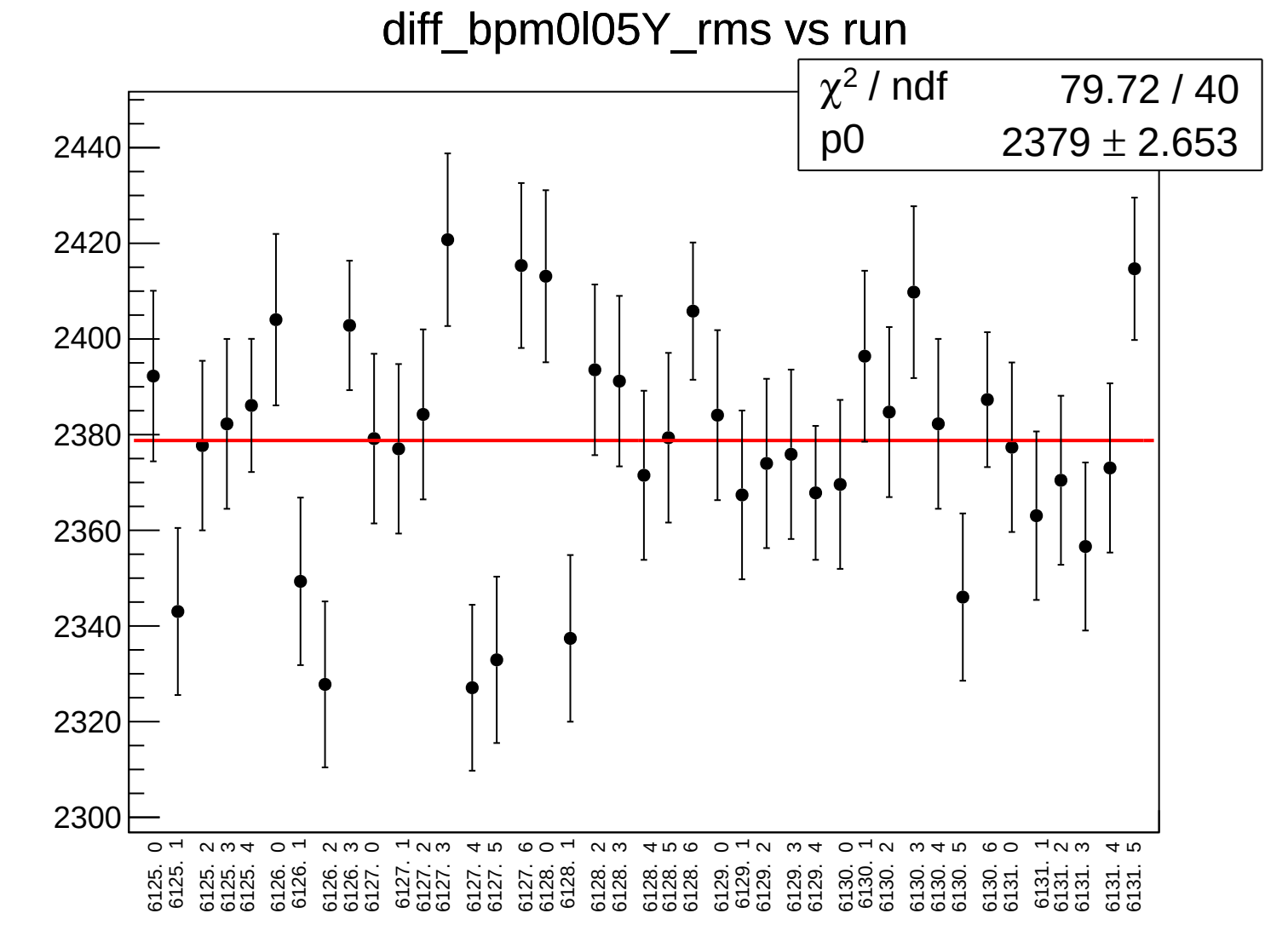

diff_bpm0l05X_mean vs run
χ² / ndf 39.61 / 40
p0 −4.604 ± 11.94
pull
Entries 41
Mean 5.812
Std Dev 0

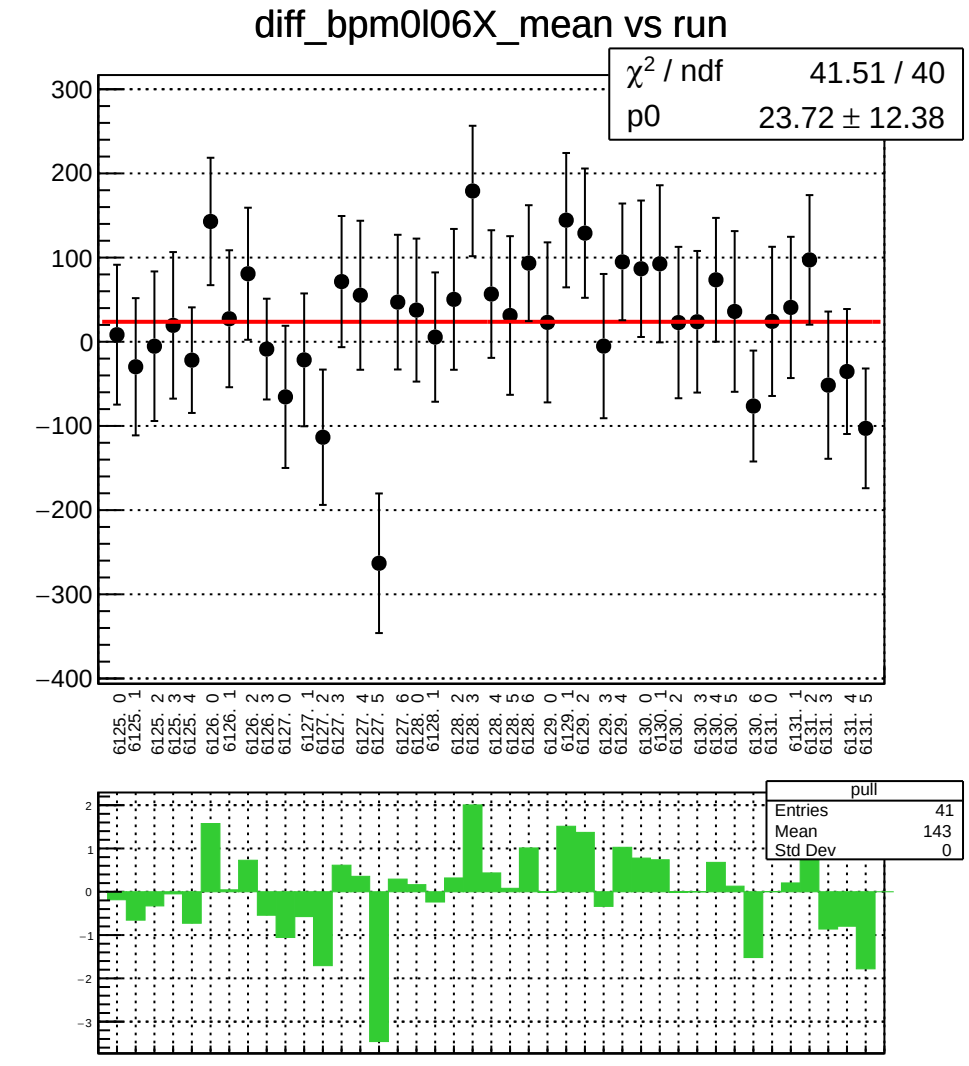

pull1D
Entries 41
Mean 0.01233
Std Dev 0.9828

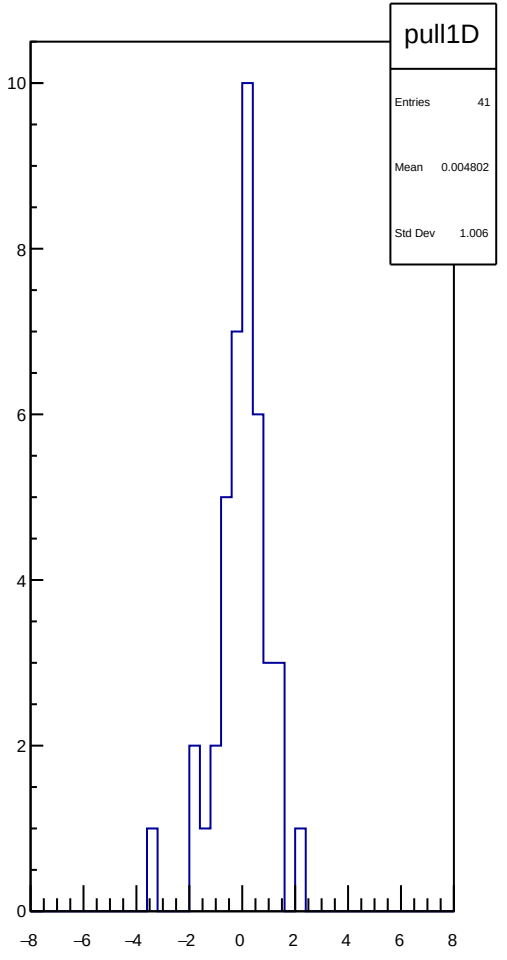

diff_bpm0l05X_rms vs run
χ² / ndf 2505 / 40
p0 7559 ± 8.442
8500
8000
7500
7000
6500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

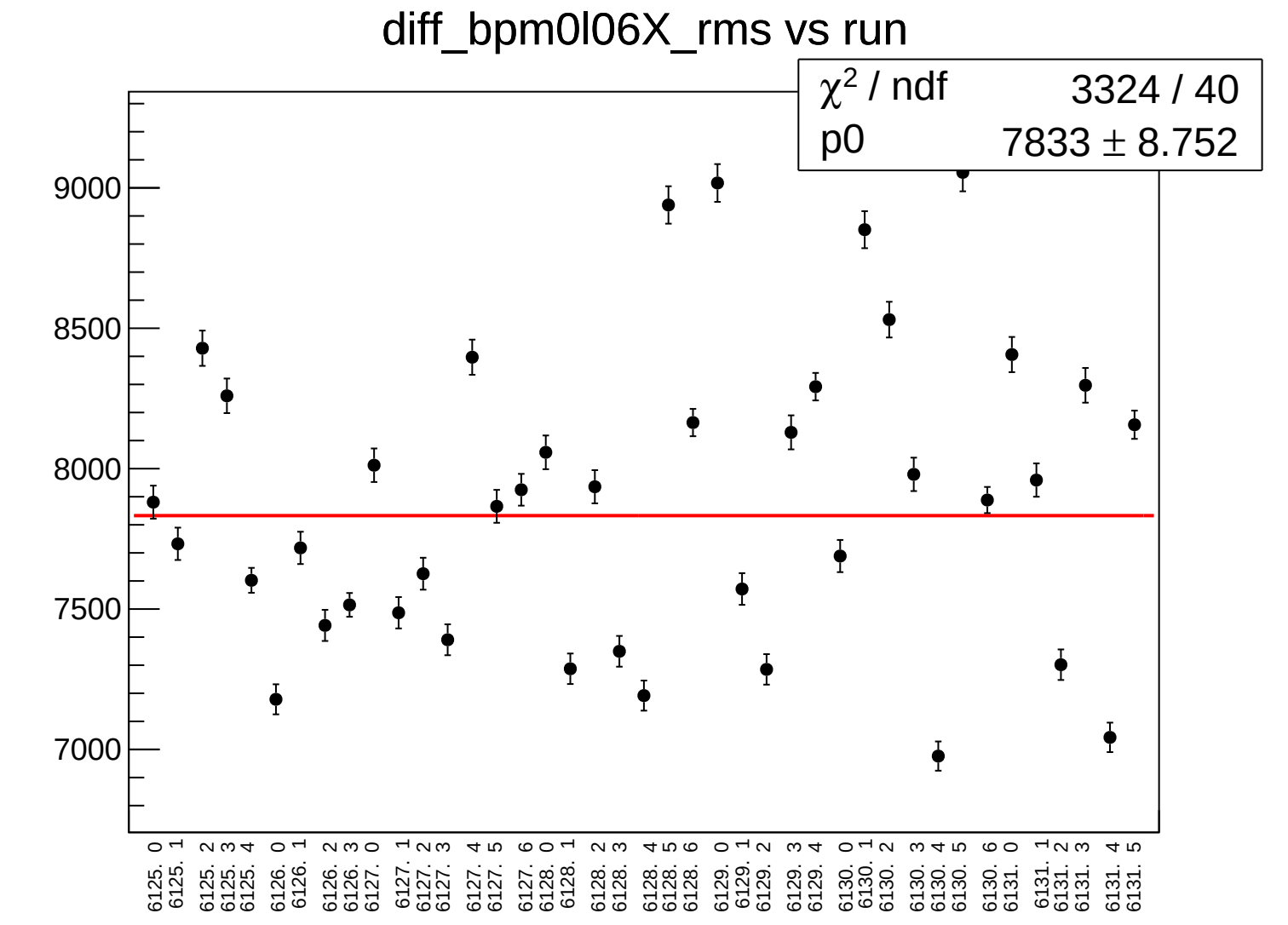

diff_bpm0l05Y_mean vs run
χ² / ndf 50.92 / 40
p0 5.411 ± 3.751
pull
Entries 41
Mean 8569
Std Dev 0

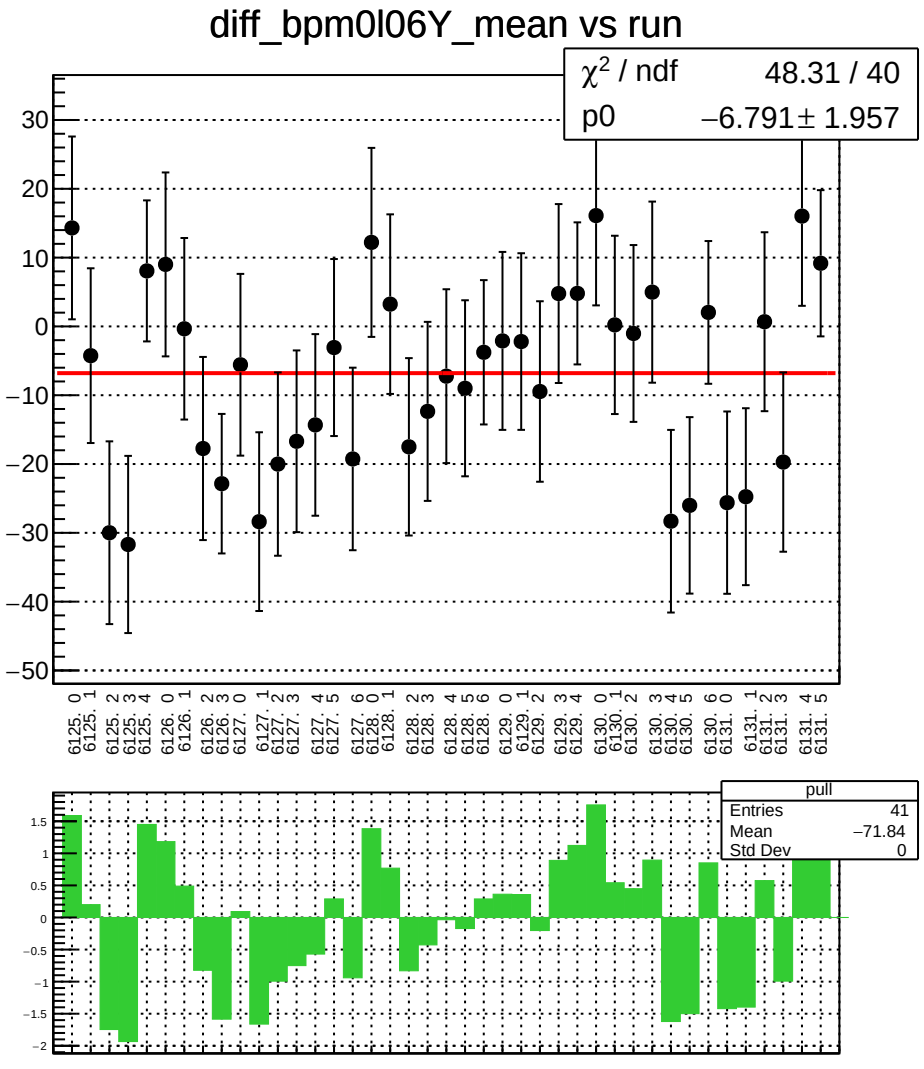

pull1D
Entries 41
Mean −0.0001577
Std Dev 1.114

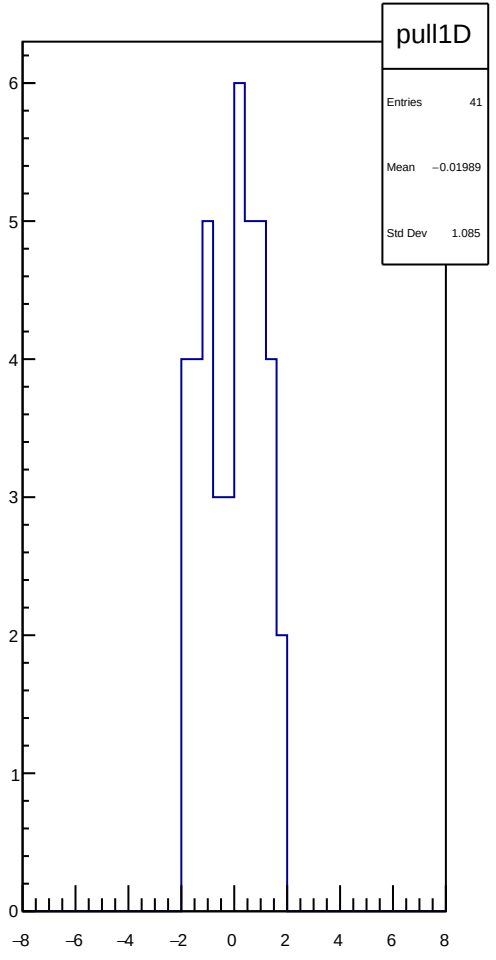

diff_bpm0l05Y_rms vs run
χ² / ndf 79.72 / 40
p0 2379 ± 2.653
2440
2420
2400
2380
2360
2340
2320
2300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

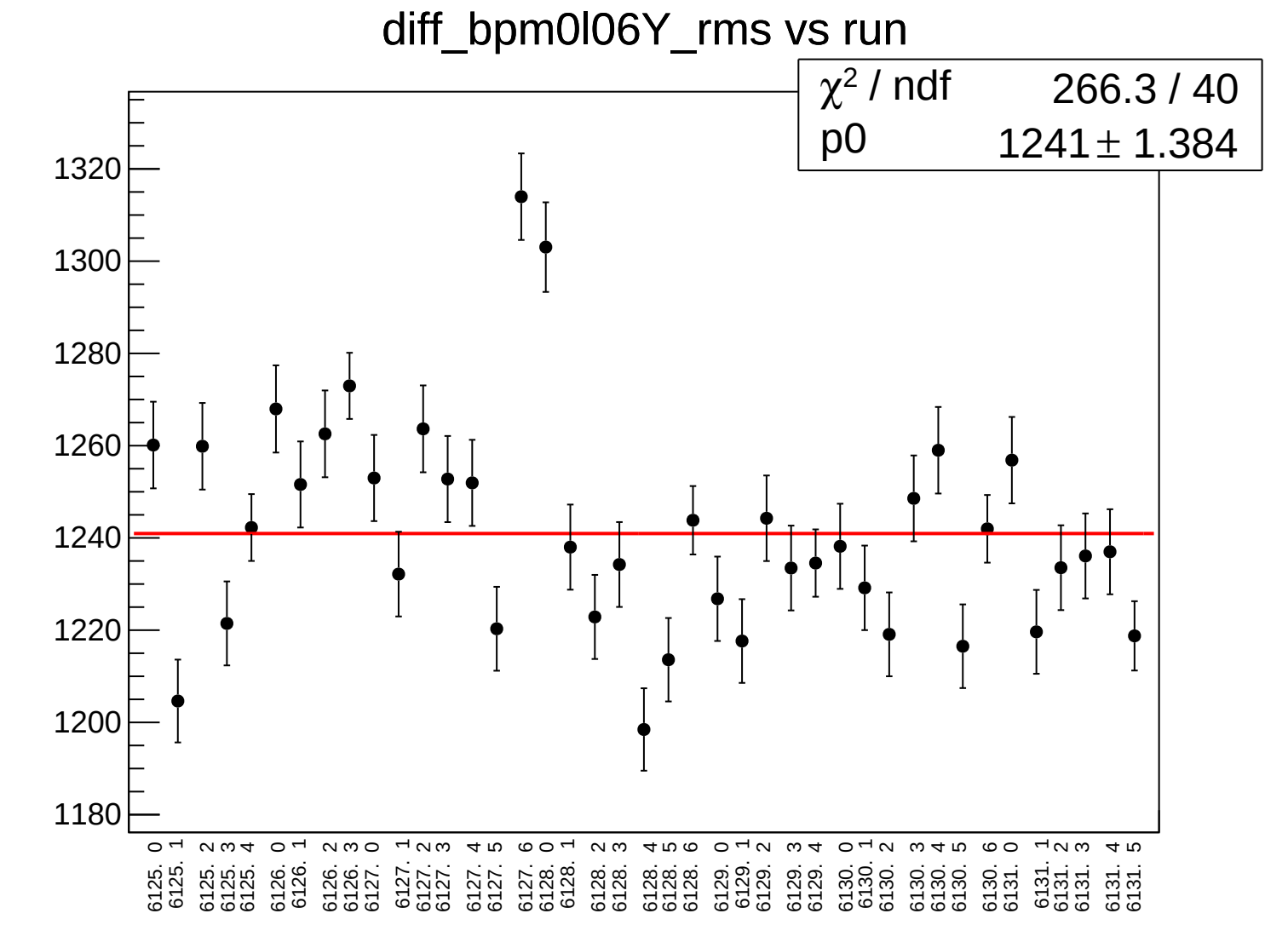

diff_bpm0l06X_mean vs run
χ² / ndf 41.51 / 40
p0 23.72 ± 12.38
pull
Entries 41
Mean 143
Std Dev 0

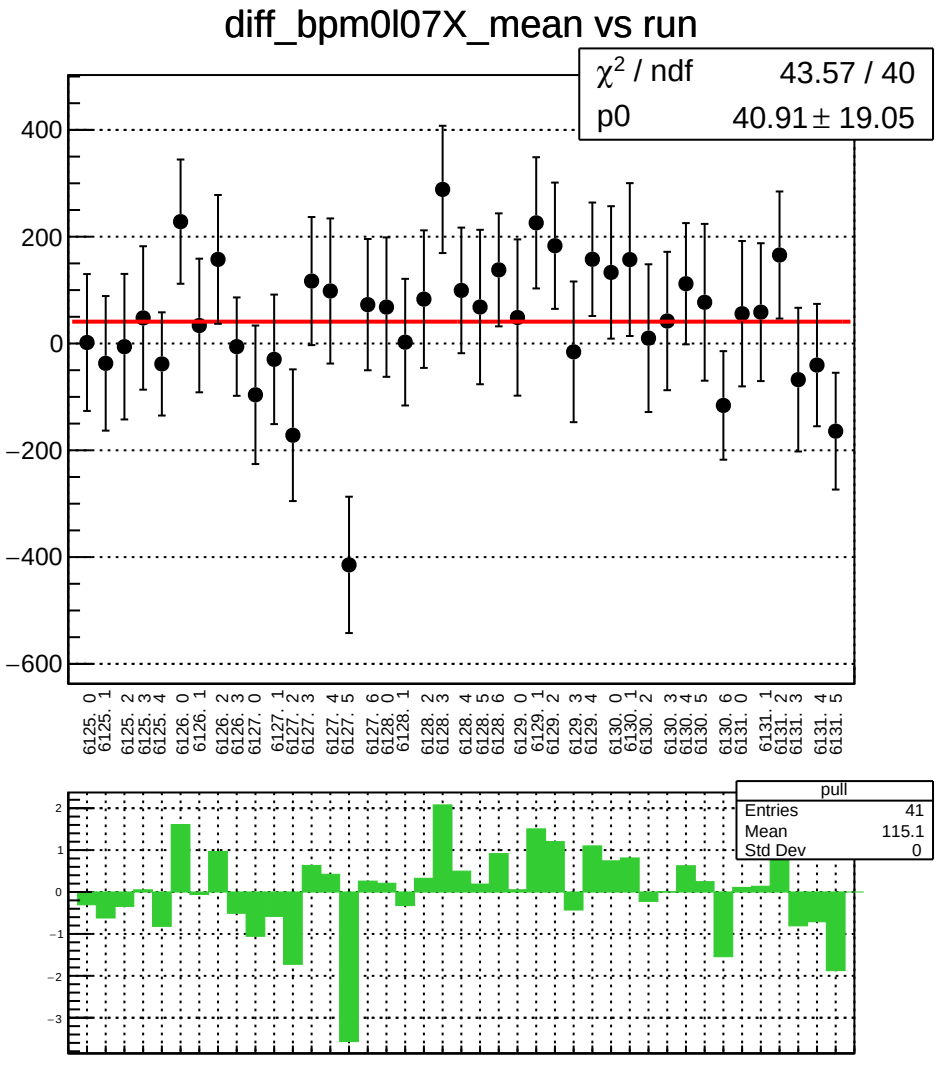

pull1D
Entries 41
Mean 0.004802
Std Dev 1.006

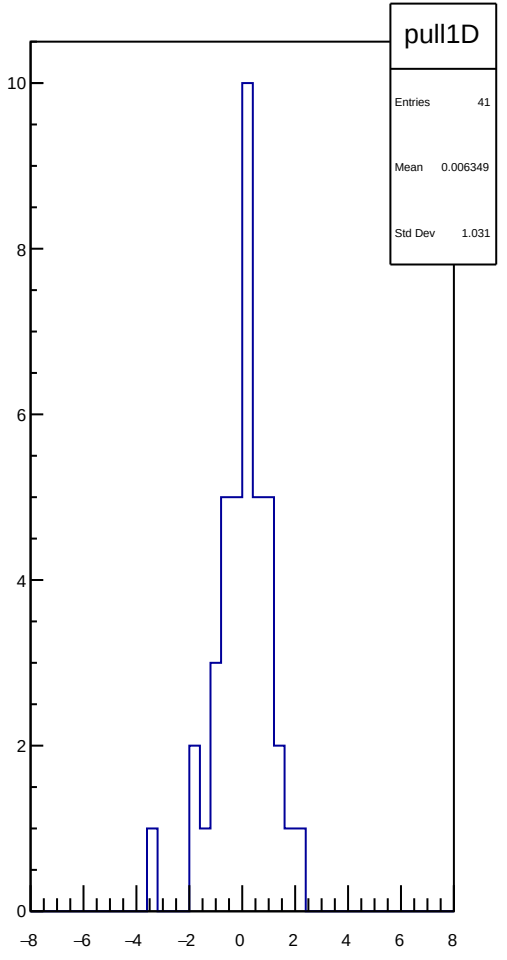

diff_bpm0l06X_rms vs run
χ² / ndf 3324 / 40
p0 7833 ± 8.752
9000
8500
8000
7500
7000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

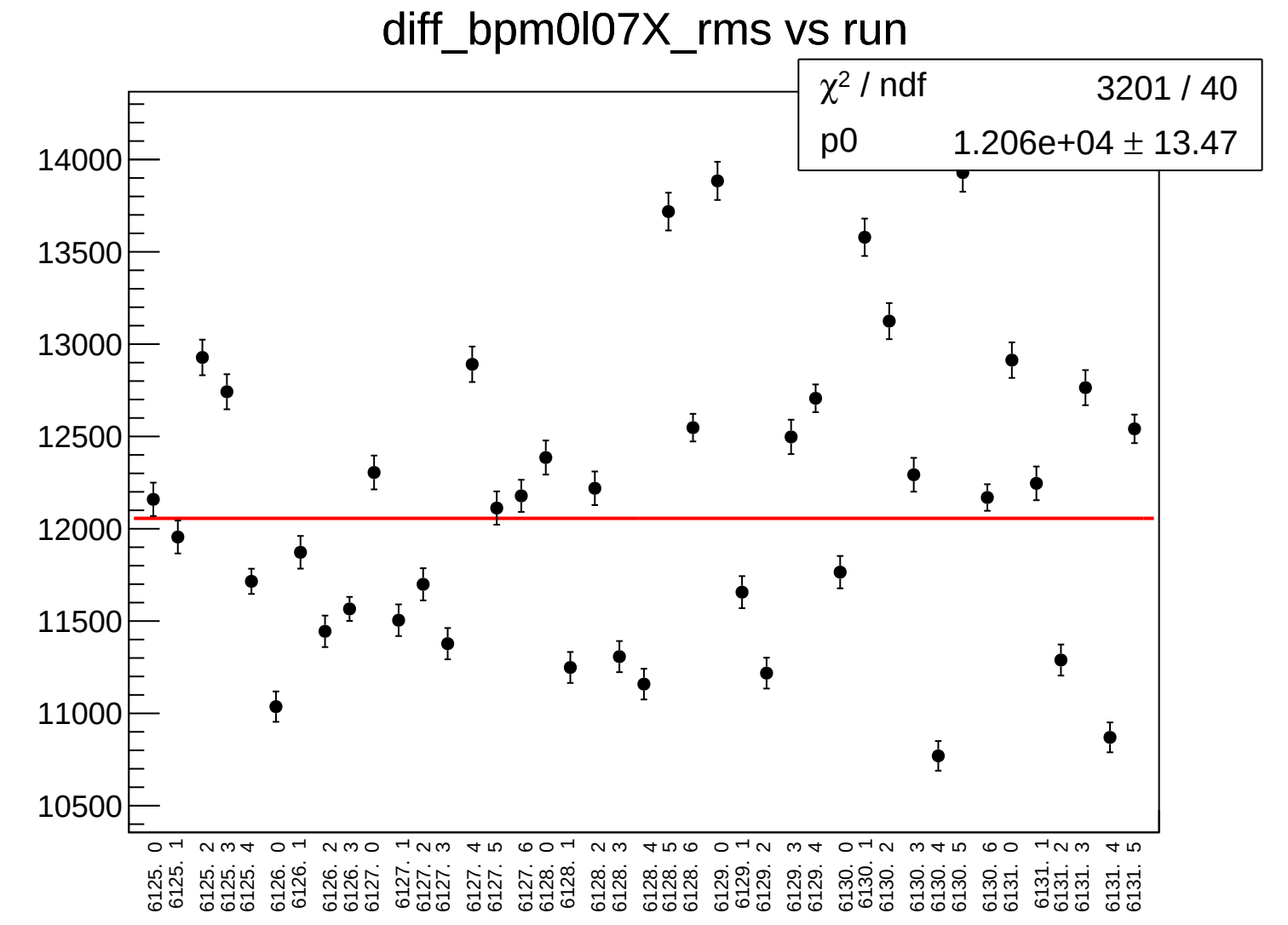

diff_bpm0l06Y_mean vs run
χ² / ndf 48.31 / 40
p0 −6.791 ± 1.957
pull
Entries 41
Mean −71.84
Std Dev 0

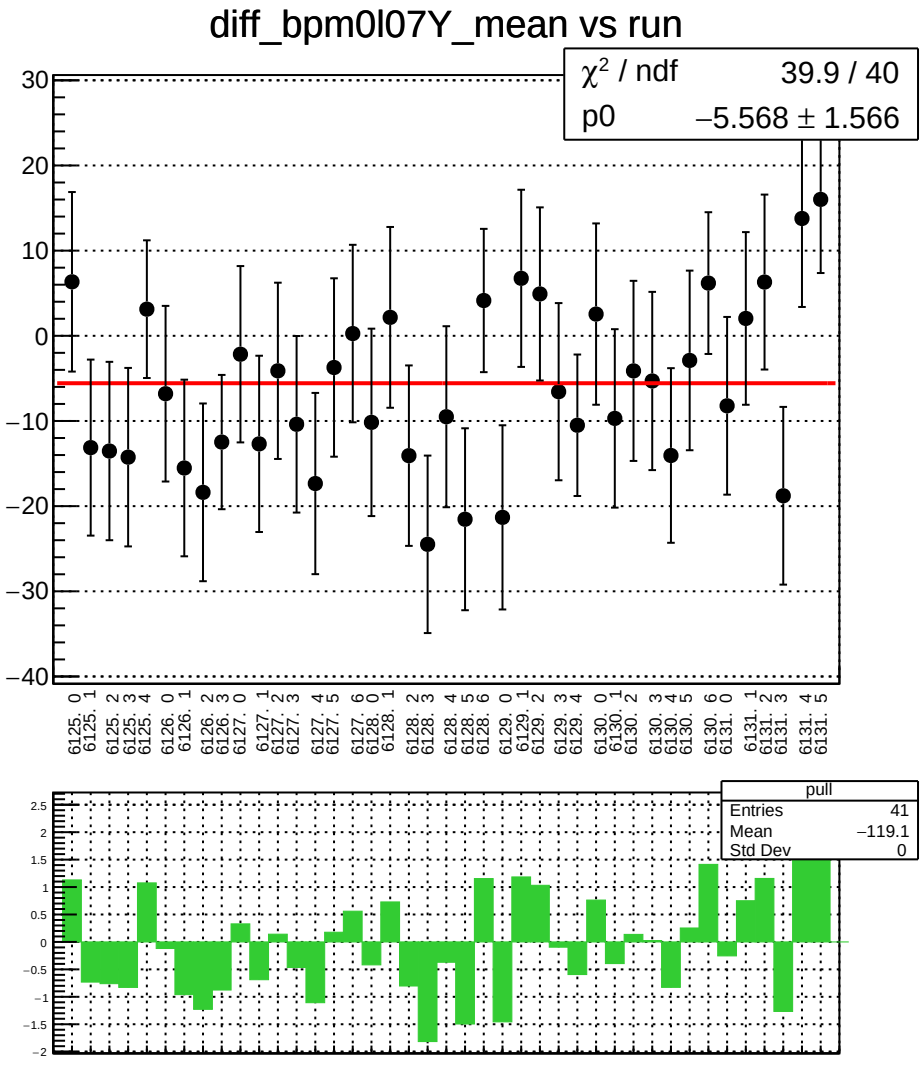

pull1D
Entries 41
Mean −0.01989
Std Dev 1.085

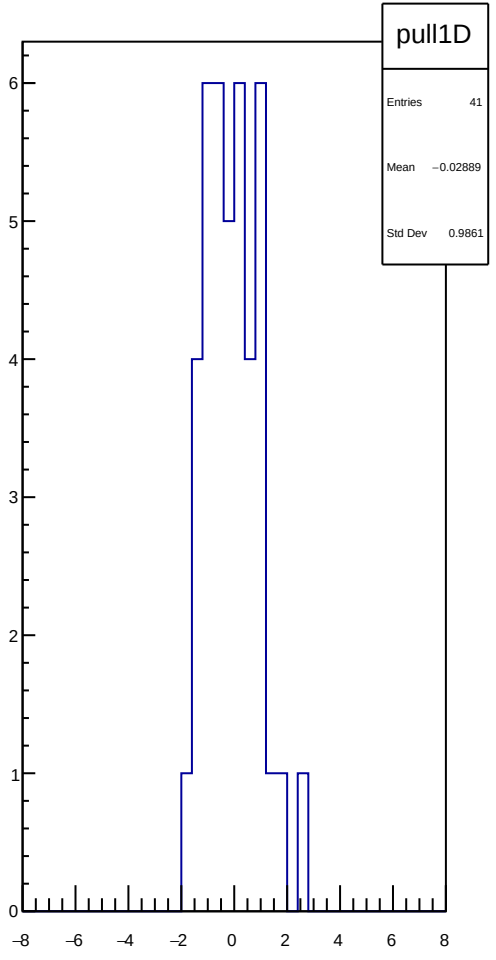

diff_bpm0l06Y_rms vs run
χ² / ndf 266.3 / 40
p0 1241 ± 1.384
1320
1300
1280
1260
1240
1220
1200
1180
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

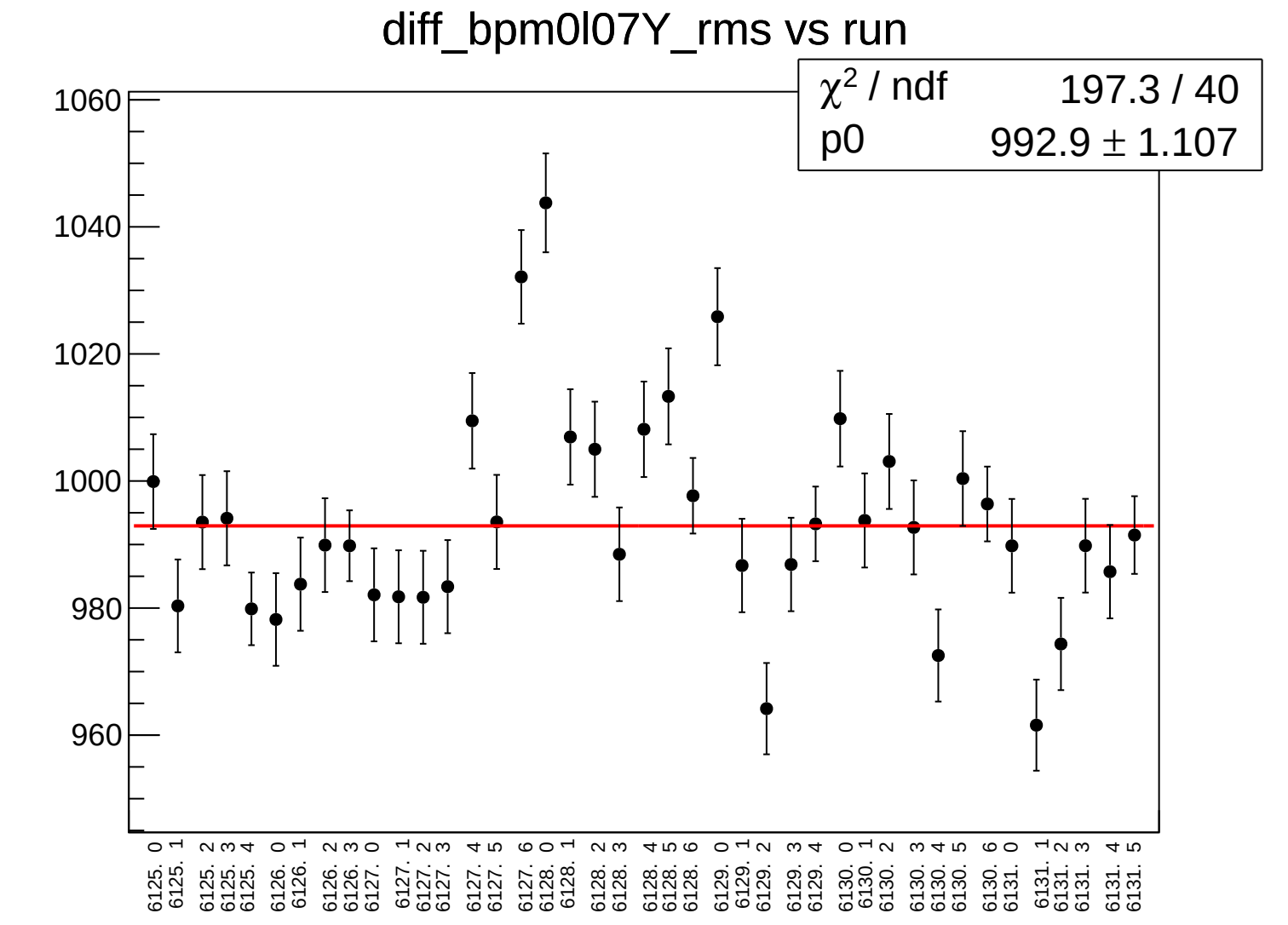

diff_bpm0l07X_mean vs run
χ² / ndf 43.57 / 40
p0 40.91 ± 19.05
400
200
0
−200
−400
−600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 115.1
Std Dev 0
2
1
0
−1
−2
−3

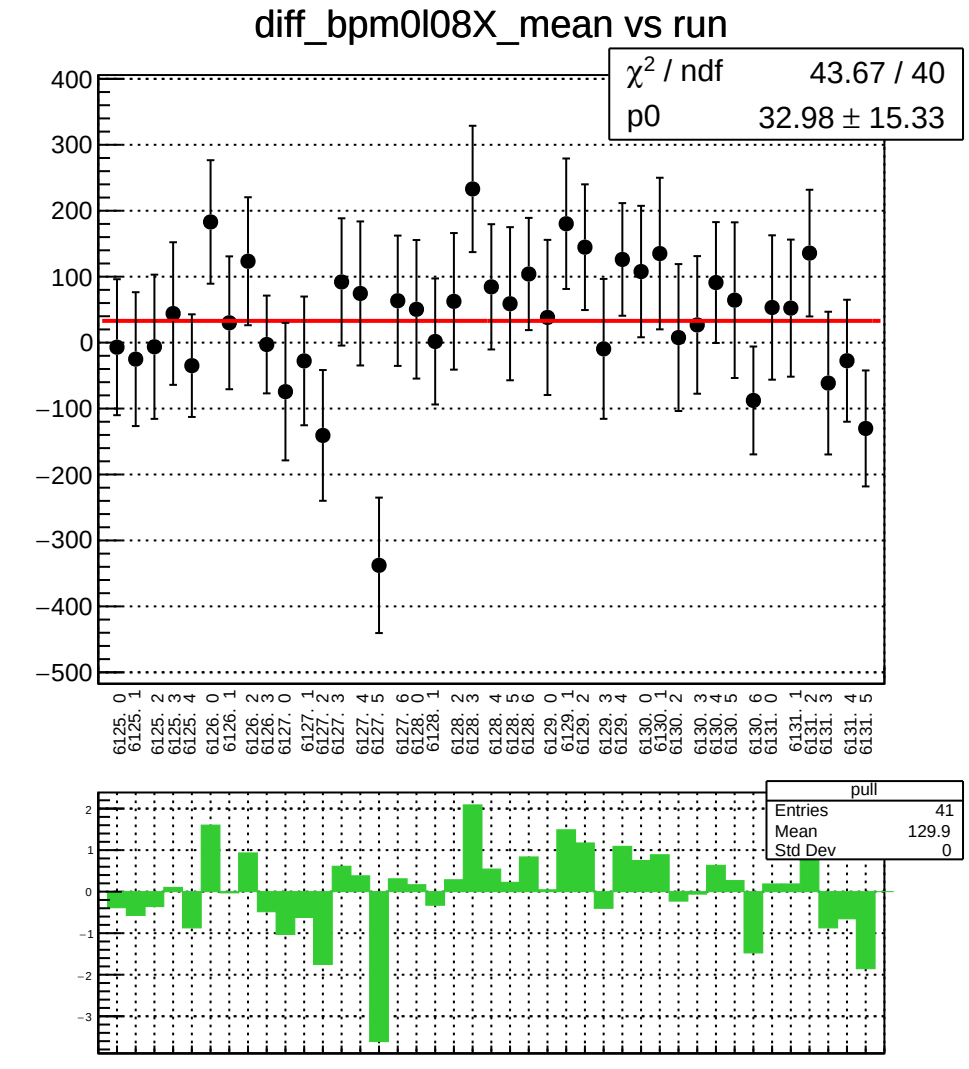

pull1D
Entries 41
Mean 0.006349
Std Dev 1.031
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

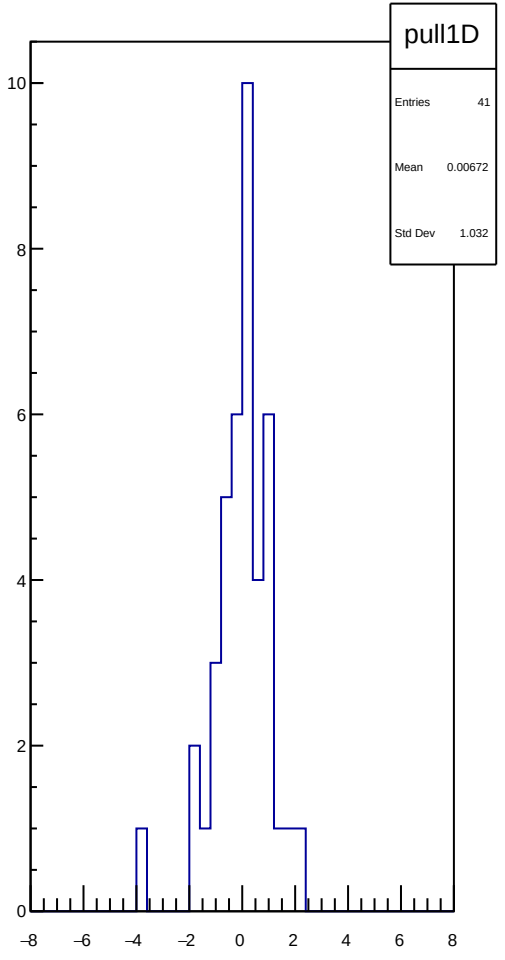

diff_bpm0l07X_rms vs run
χ² / ndf 3201 / 40
p0 1.206e+04 ± 13.47
14000
13500
13000
12500
12000
11500
11000
10500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

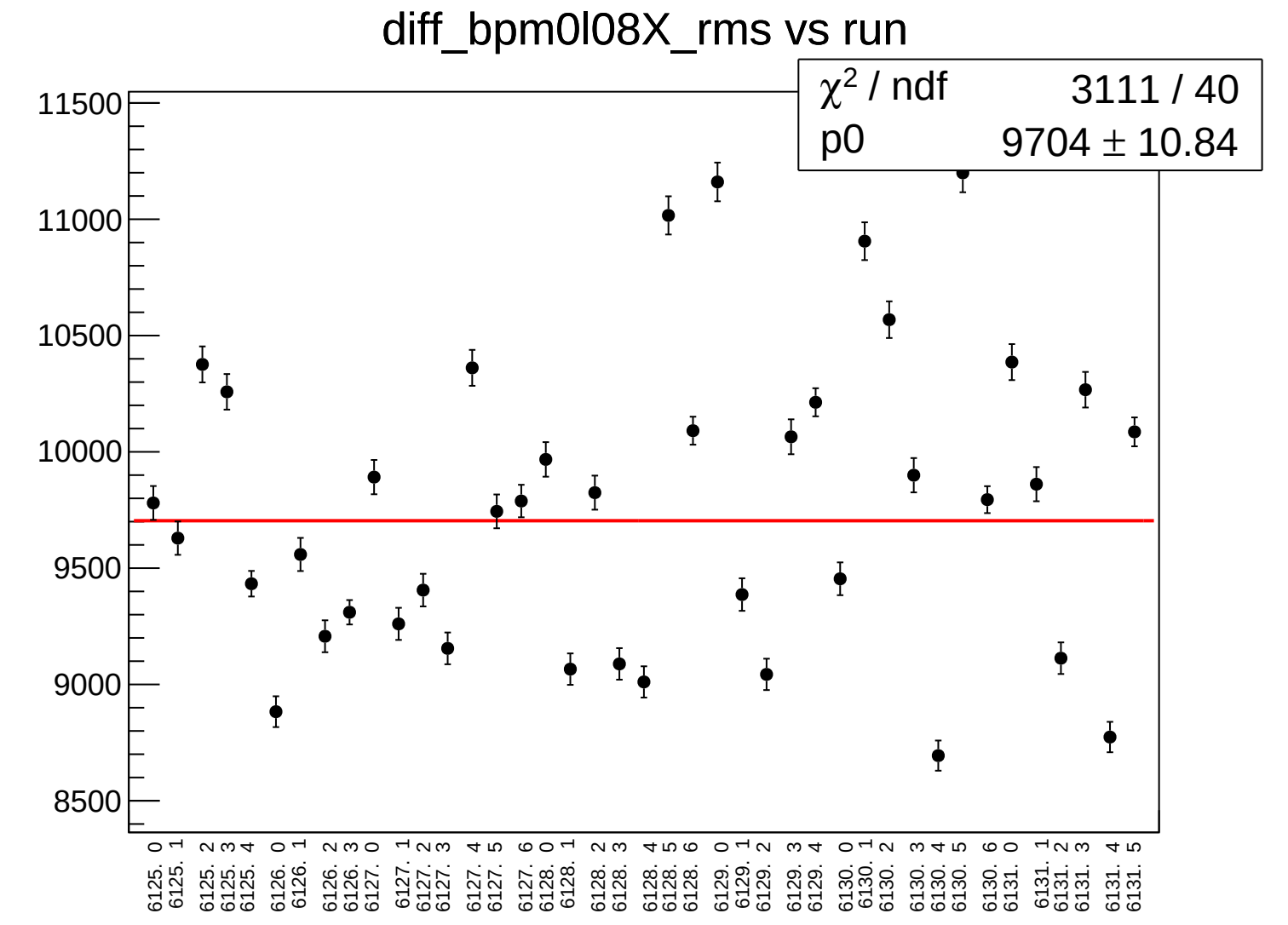

diff_bpm0l07Y_mean vs run
χ² / ndf 39.9 / 40
p0 −5.568 ± 1.566
pull
Entries 41
Mean −119.1
Std Dev 0

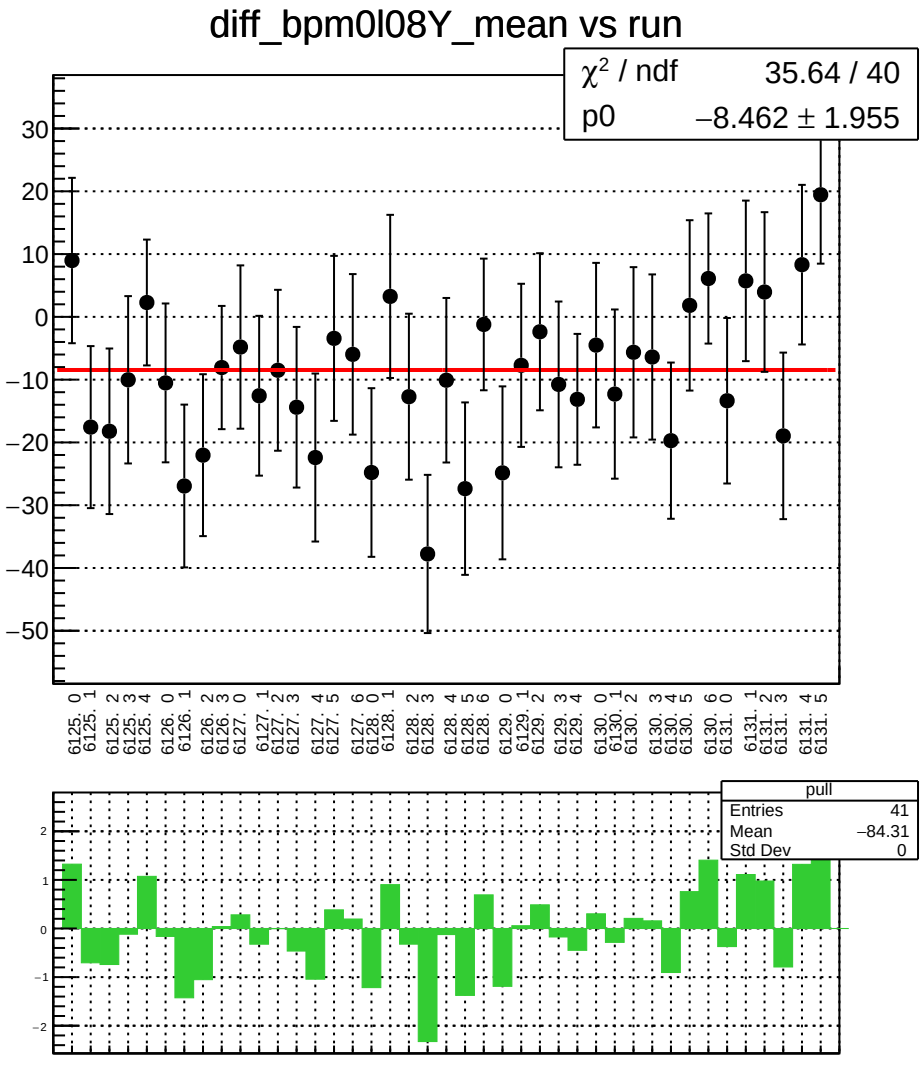

pull1D
Entries 41
Mean −0.02889
Std Dev 0.9861

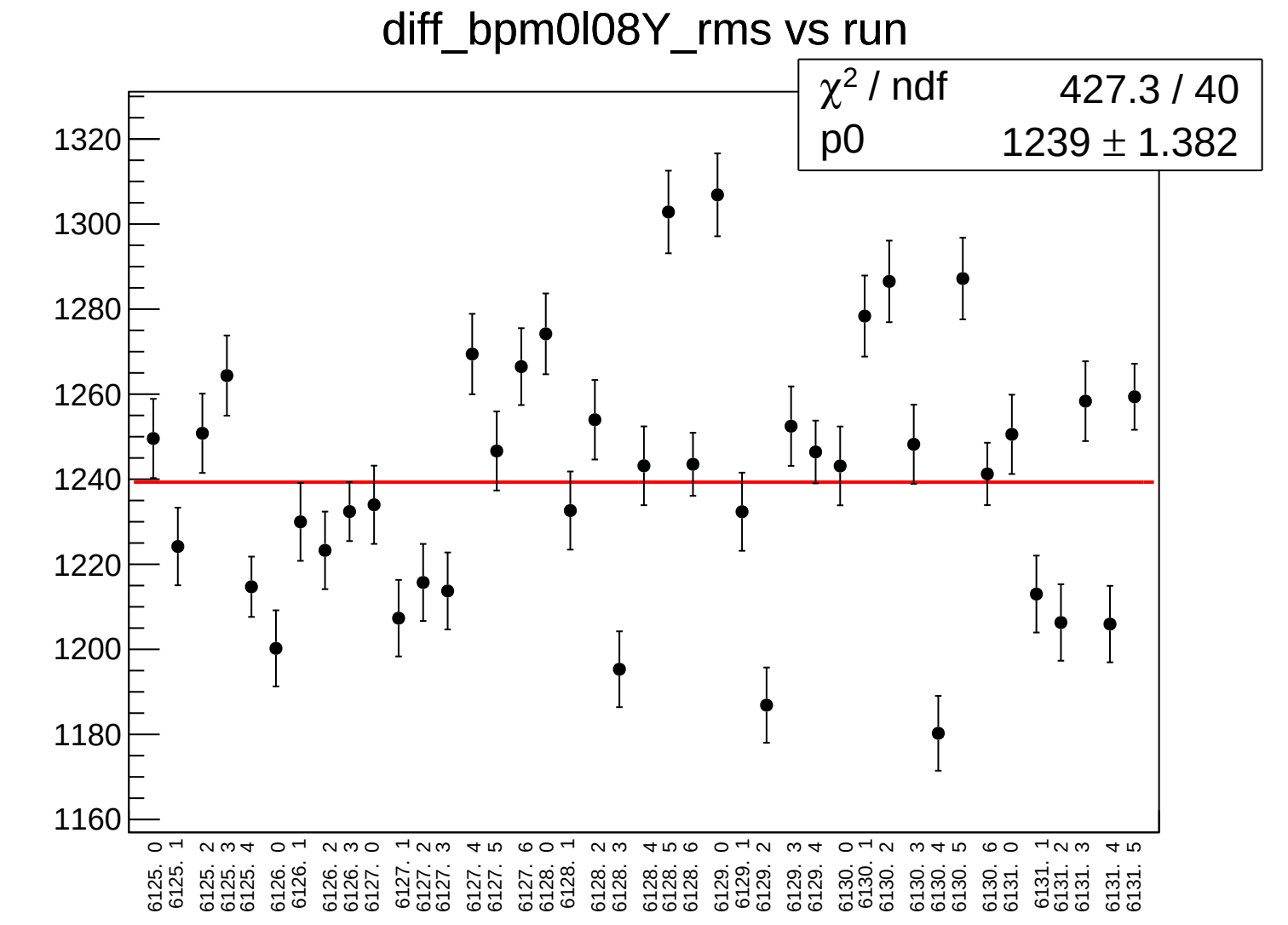

diff_bpm0l07Y_rms vs run
χ² / ndf 197.3 / 40
p0 992.9 ± 1.107
1060
1040
1020
1000
980
960
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

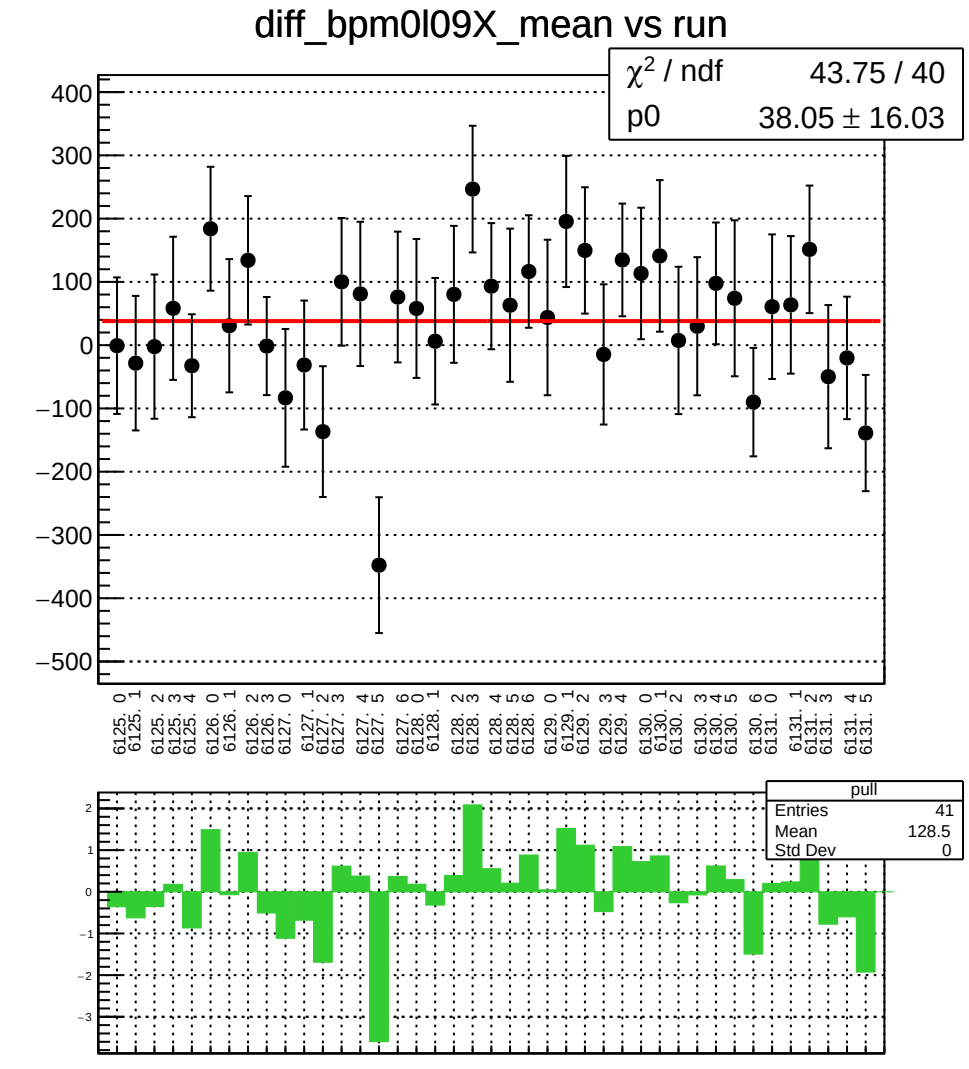

diff_bpm0l08X_mean vs run
χ² / ndf 43.67 / 40
p0 32.98 ± 15.33
pull
Entries 41
Mean 129.9
Std Dev 0

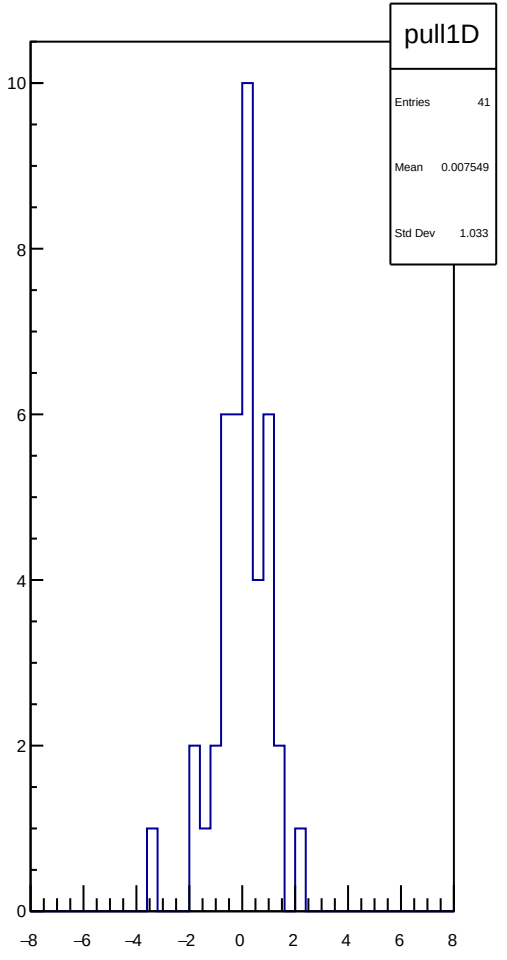

pull1D
Entries 41
Mean 0.00672
Std Dev 1.032

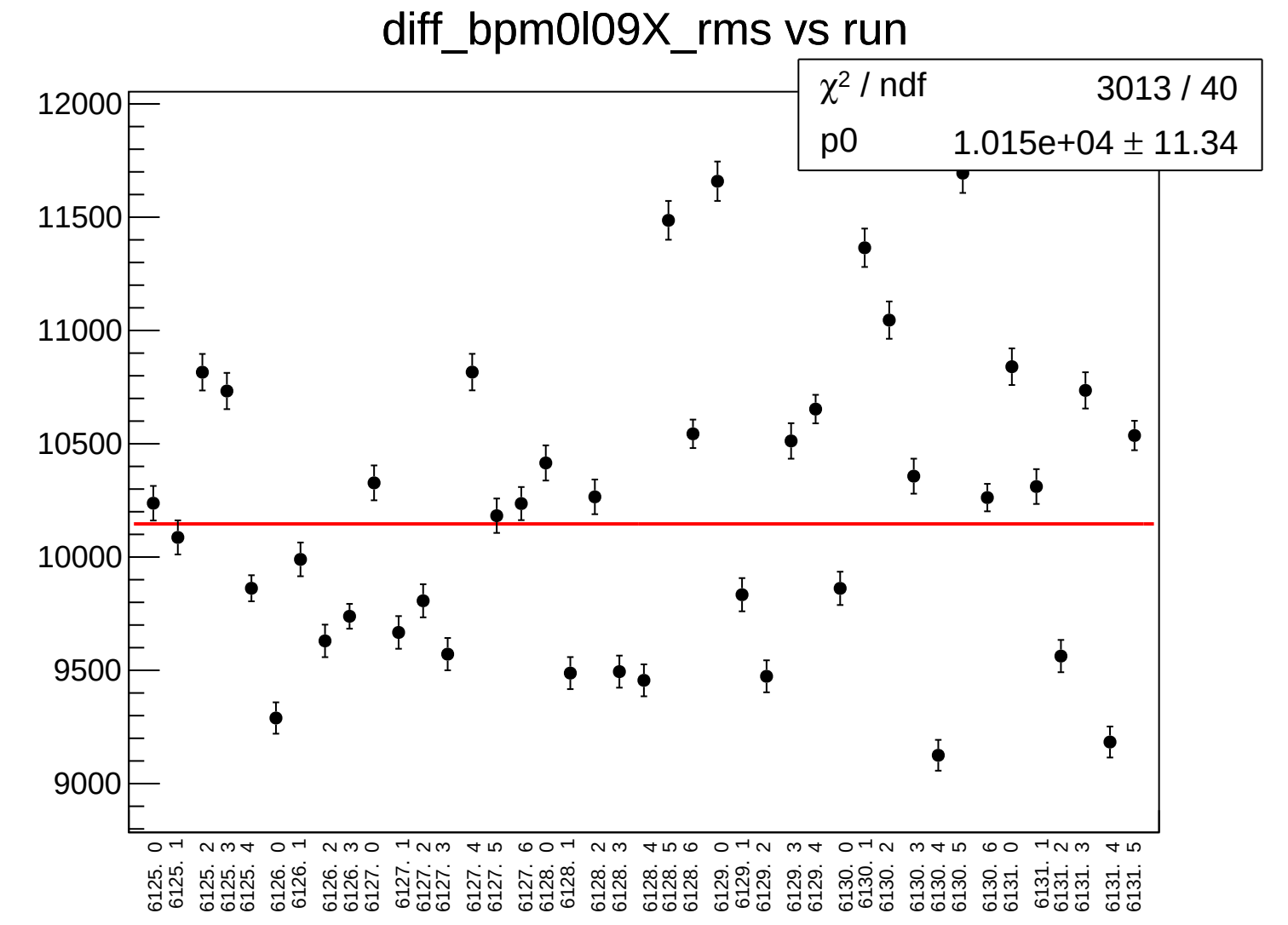

diff_bpm0l08X_rms vs run
χ² / ndf 3111 / 40
p0 9704 ± 10.84
11500
11000
10500
10000
9500
9000
8500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

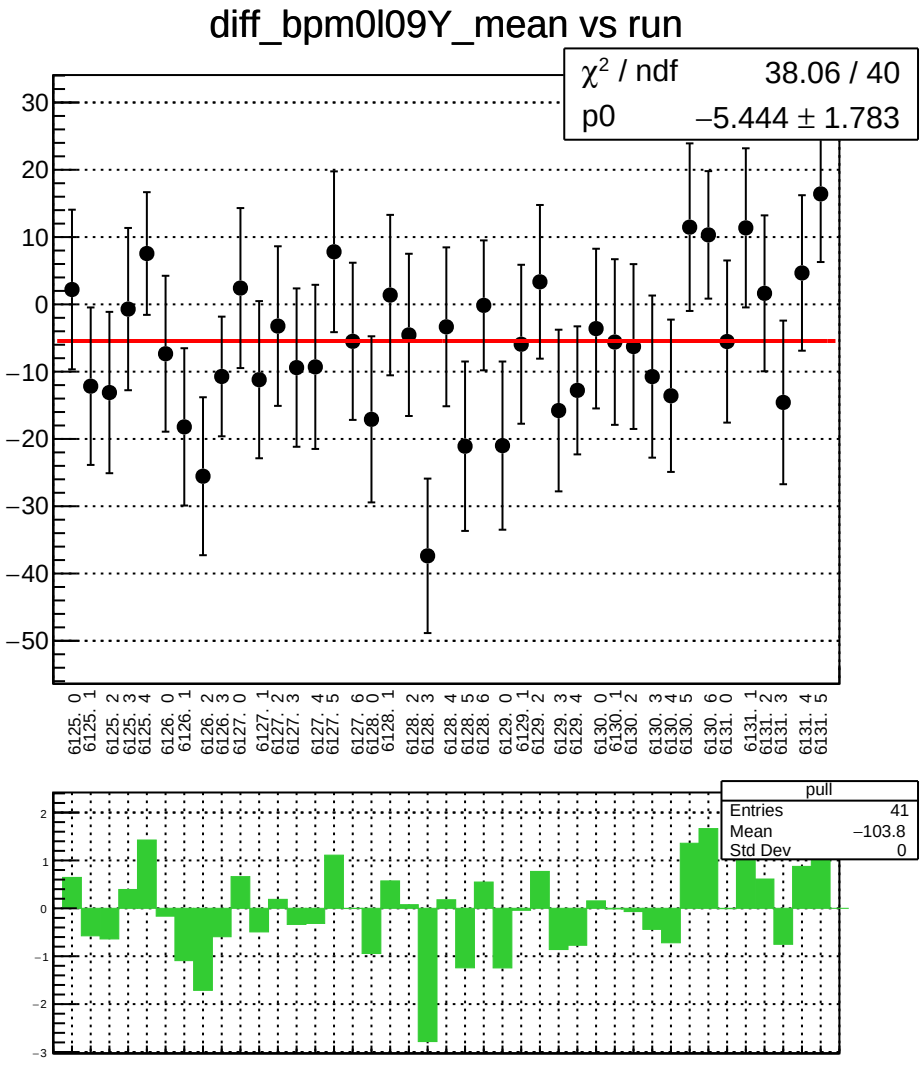

diff_bpm0l08Y_mean vs run
χ² / ndf 35.64 / 40
p0 −8.462 ± 1.955
pull
Entries 41
Mean −84.31
Std Dev 0
pull1D
Entries 41
Mean −0.03291
Std Dev 0.9318

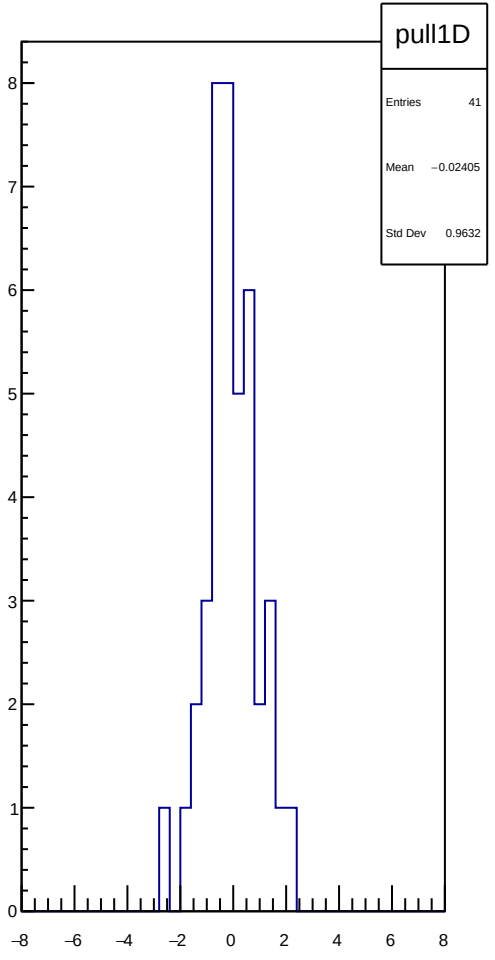

diff_bpm0l08Y_rms vs run
χ² / ndf 427.3 / 40
p0 1239 ± 1.382
1320
1300
1280
1260
1240
1220
1200
1180
1160
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

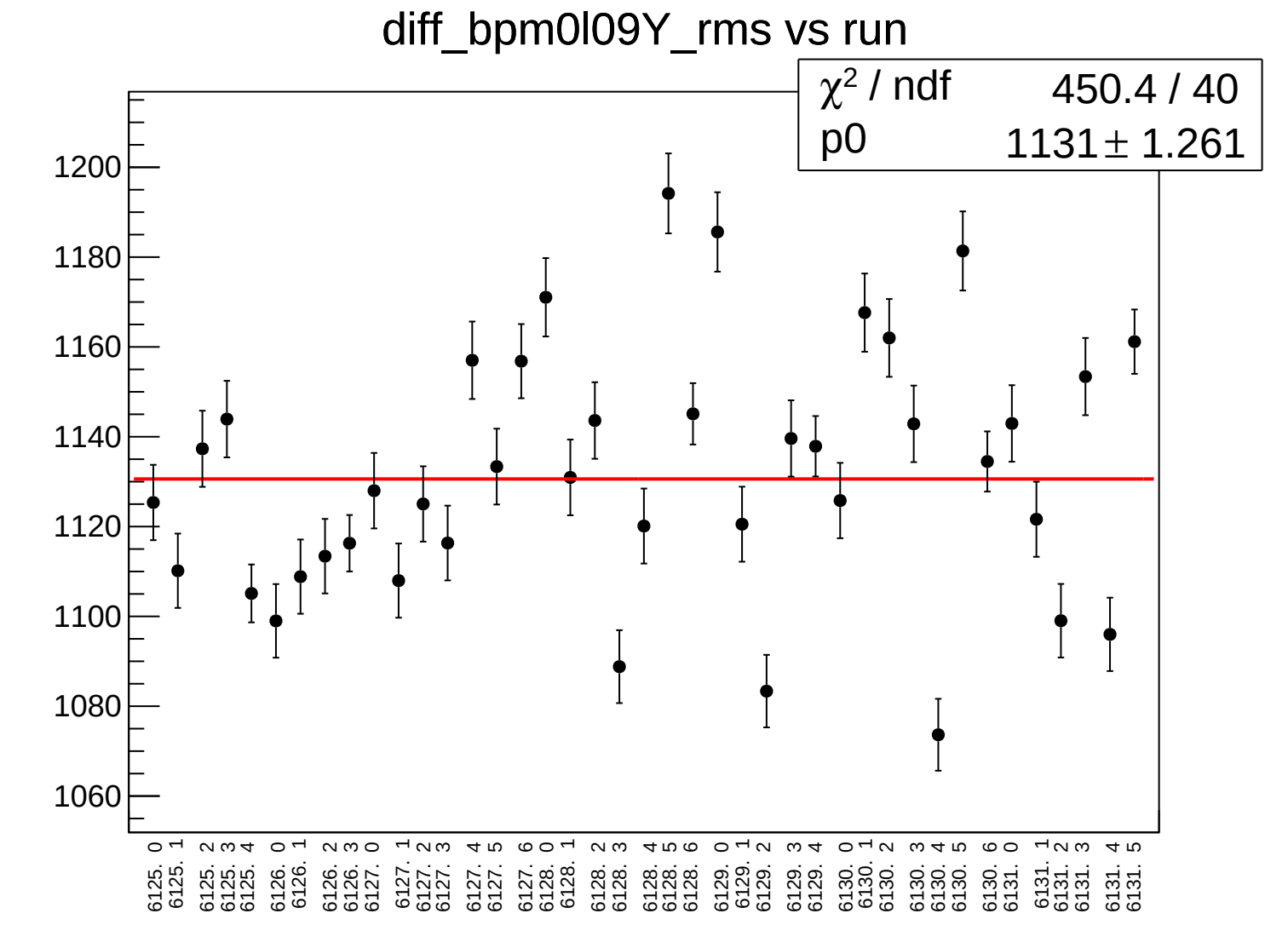

diff_bpm0l09X_mean vs run
χ² / ndf 43.75 / 40
p0 38.05 ± 16.03
pull
Entries 41
Mean 128.5
Std Dev 0

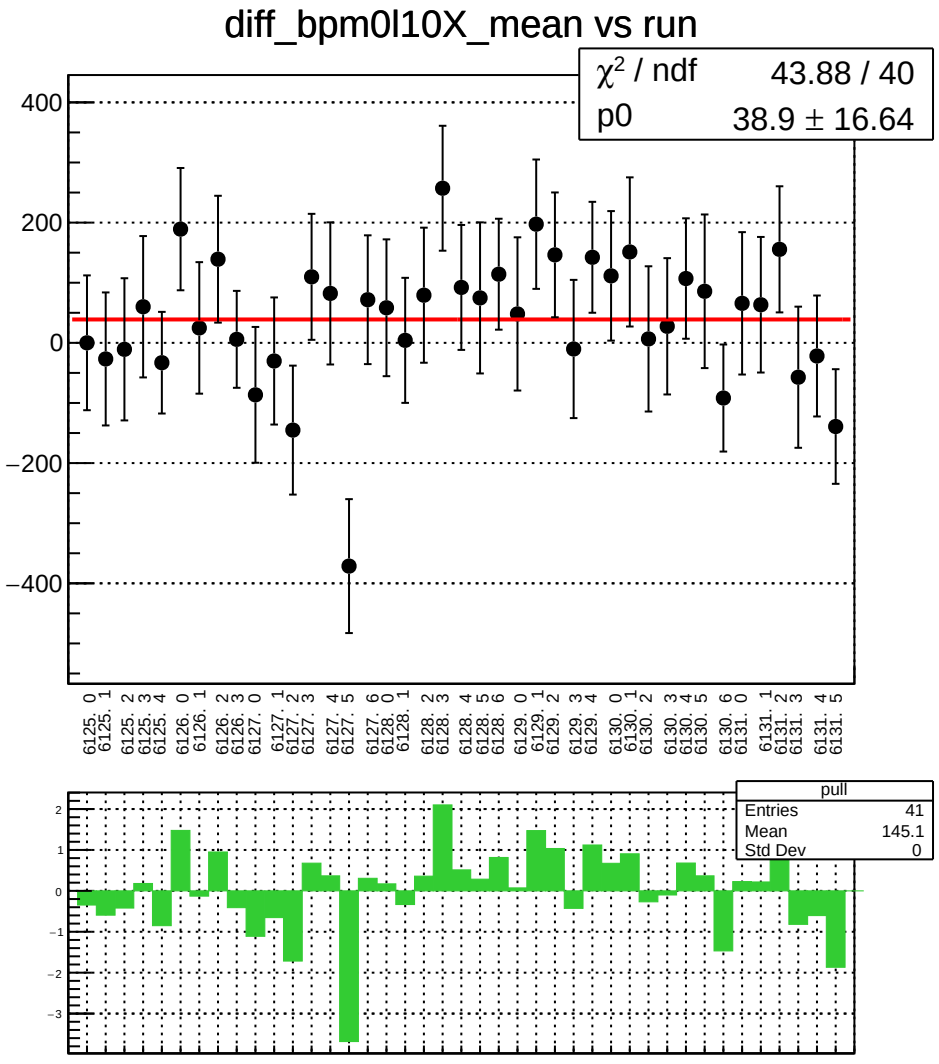

pull1D
Entries 41
Mean 0.007549
Std Dev 1.033

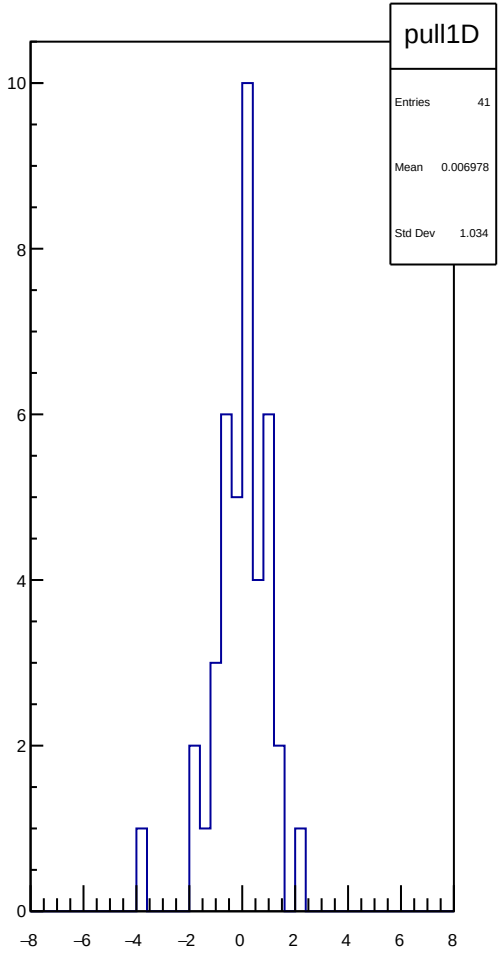

diff_bpm0l09X_rms vs run
χ² / ndf 3013 / 40
p0 1.015e+04 ± 11.34
12000
11500
11000
10500
10000
9500
9000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

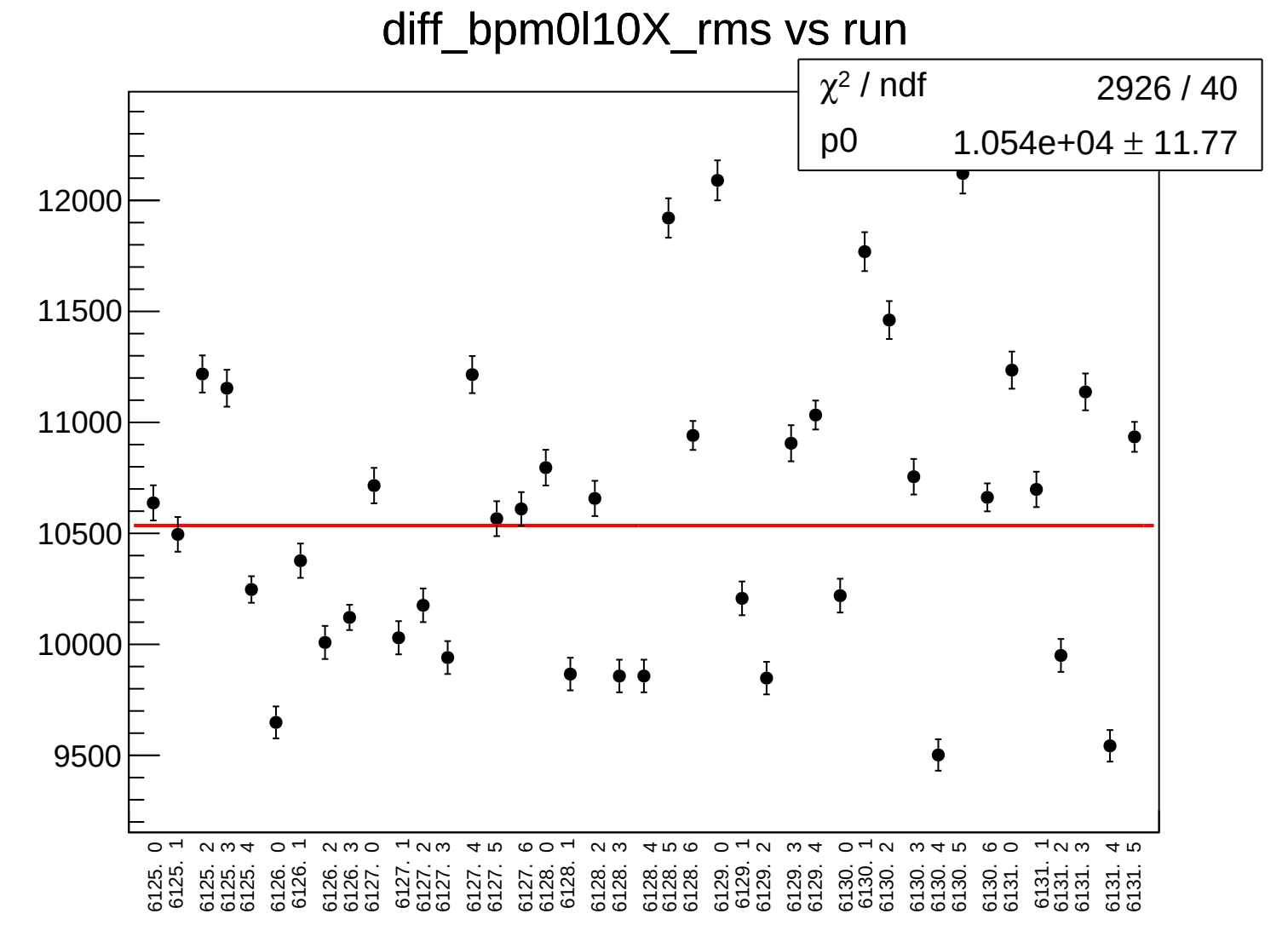

diff_bpm0l09Y_mean vs run
χ² / ndf 38.06 / 40
p0 −5.444 ± 1.783
pull
Entries 41
Mean −103.8
Std Dev 0

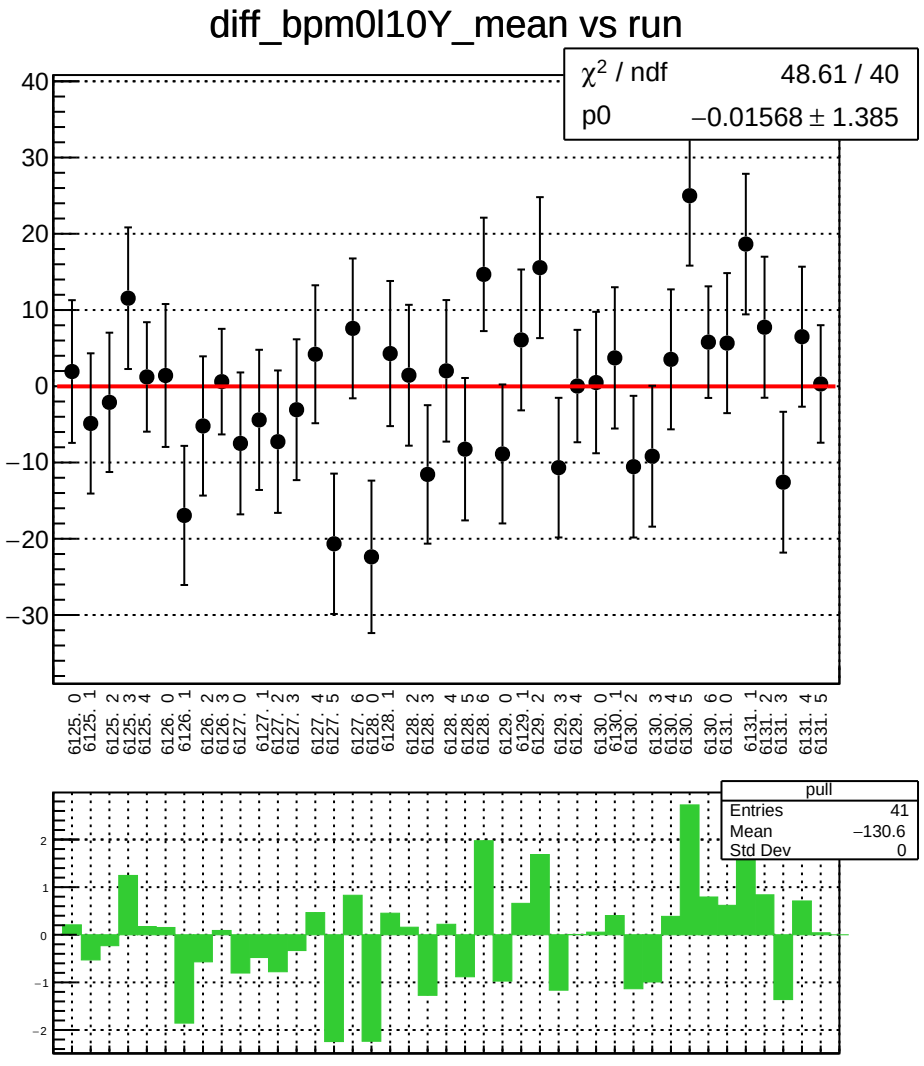

pull1D
Entries 41
Mean −0.02405
Std Dev 0.9632

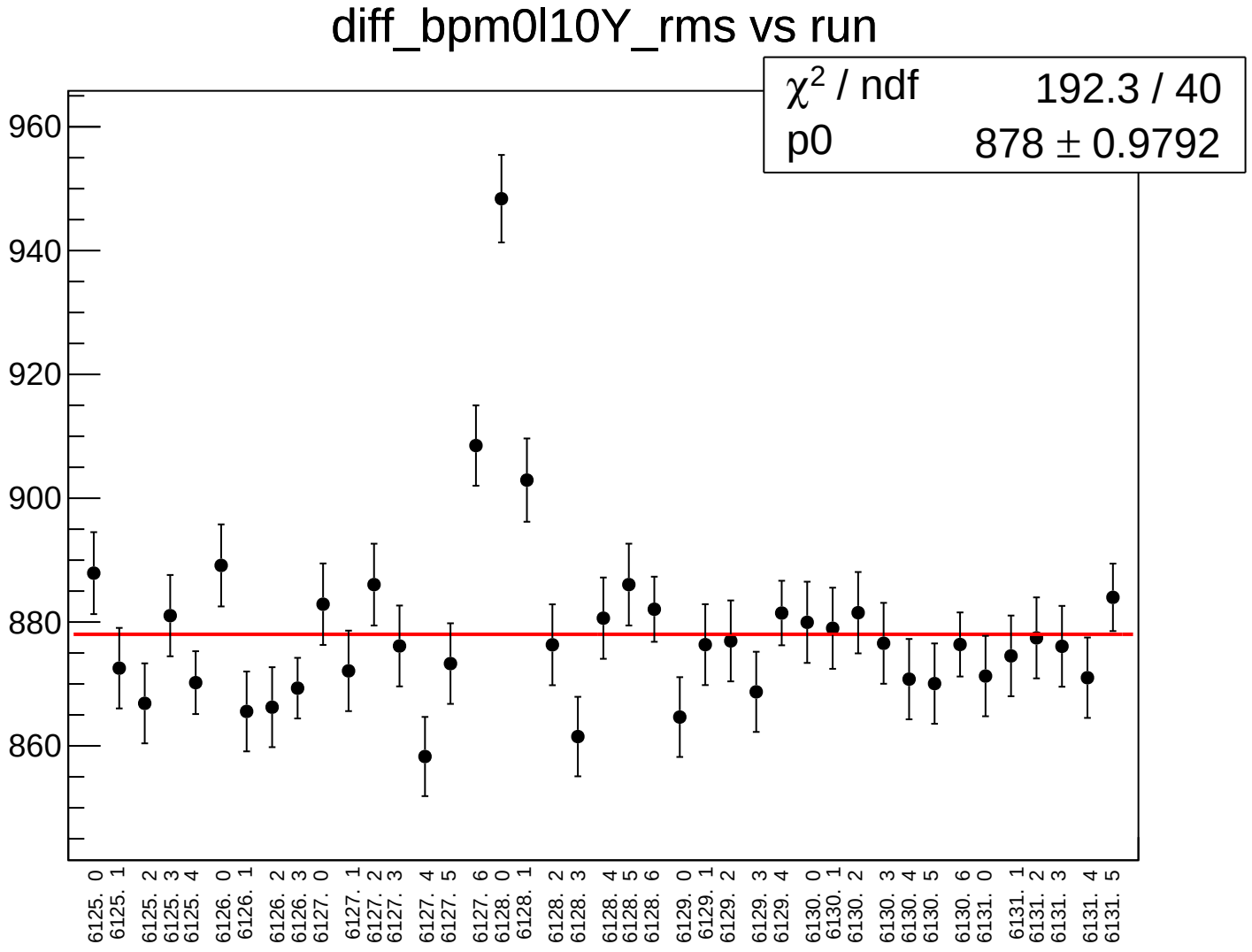

diff_bpm0l09Y_rms vs run
χ² / ndf 450.4 / 40
p0 1131 ± 1.261
1200
1180
1160
1140
1120
1100
1080
1060
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

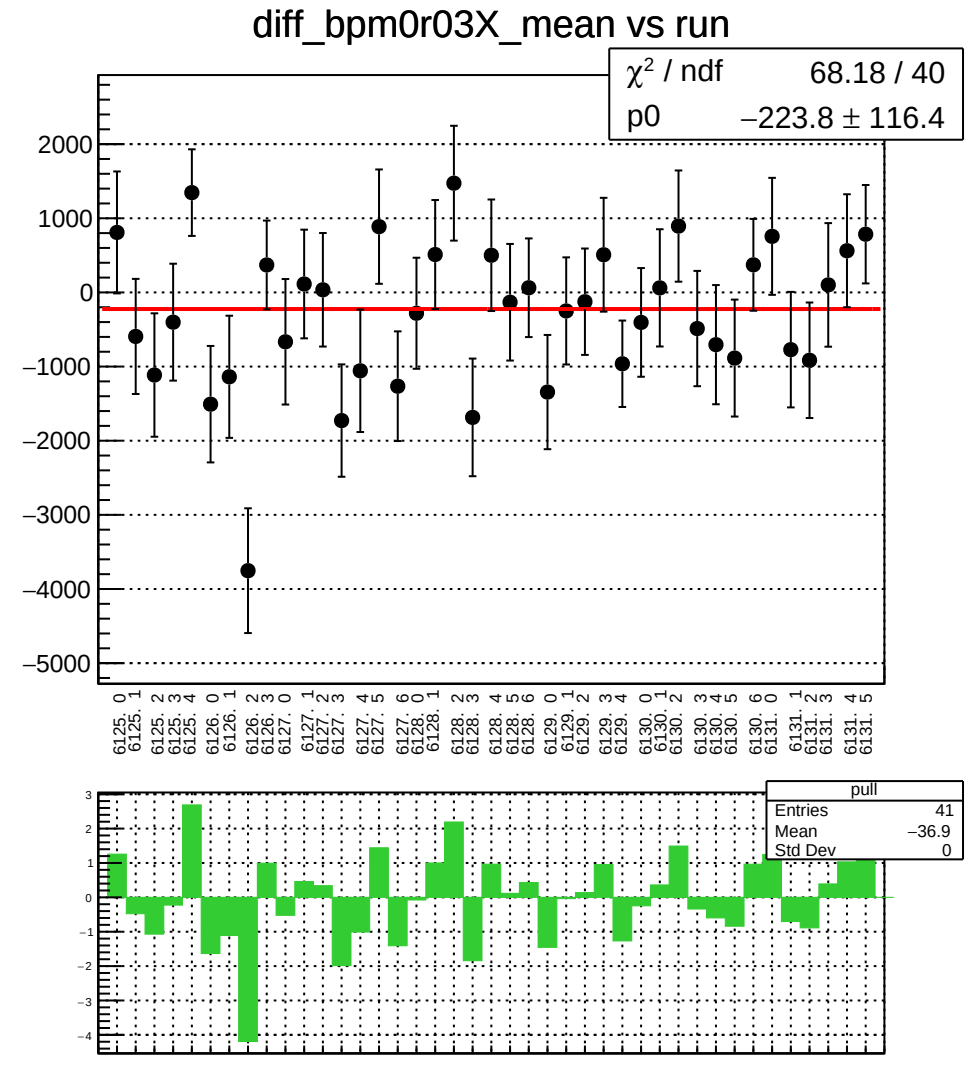

diff_bpm0l10X_mean vs run
χ² / ndf 43.88 / 40
p0 38.9 ± 16.64
400
200
0
−200
−400
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 145.1
Std Dev 0
2
1
0
−1
−2
−3

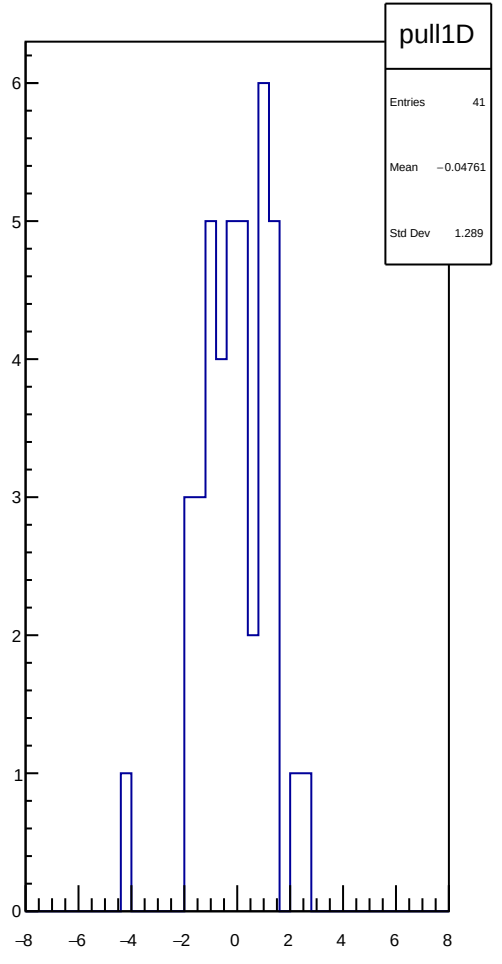

pull1D
Entries 41
Mean 0.006978
Std Dev 1.034
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

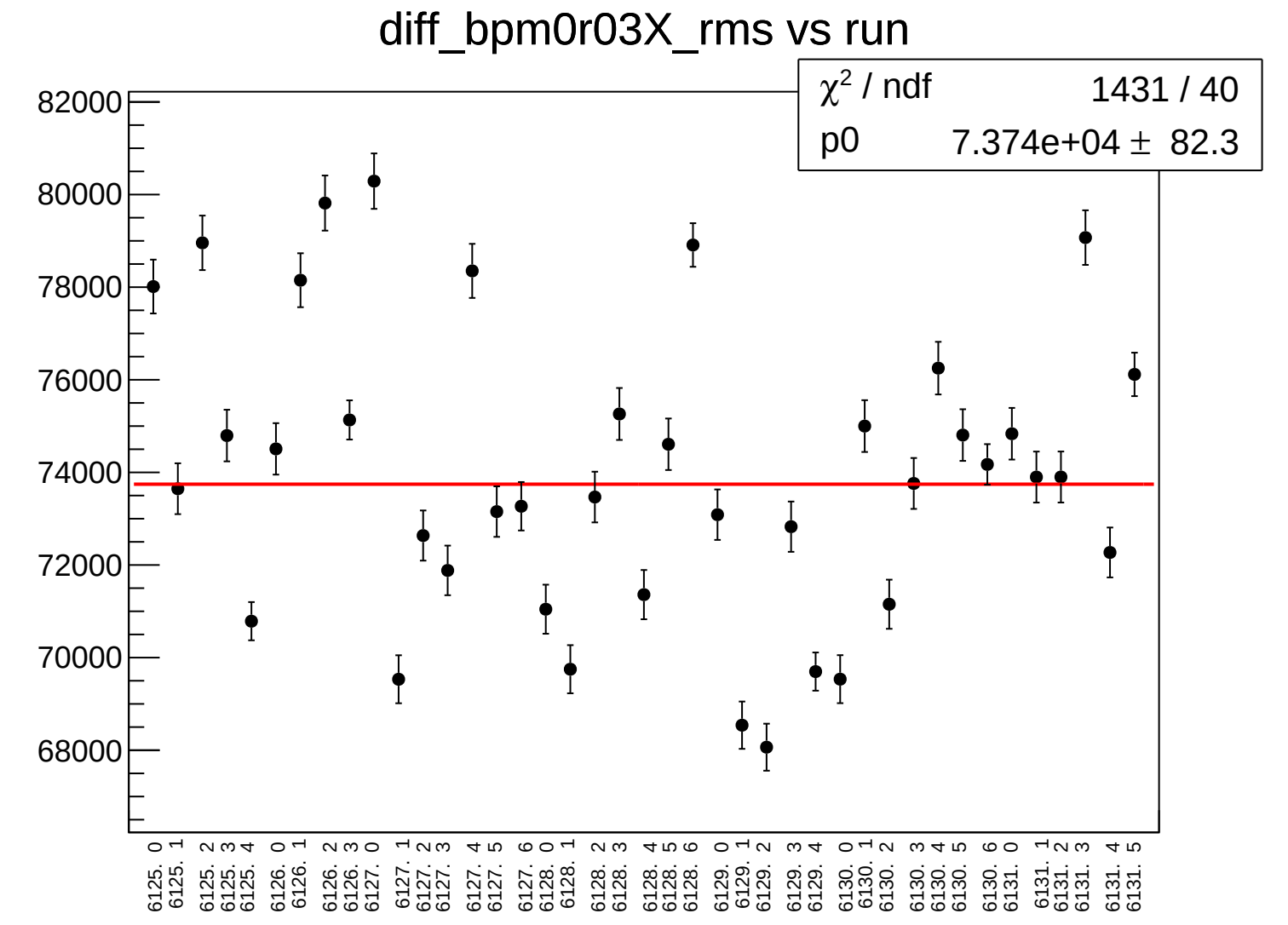

diff_bpm0l10X_rms vs run
χ² / ndf 2926 / 40
p0 1.054e+04 ± 11.77
12000
11500
11000
10500
10000
9500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

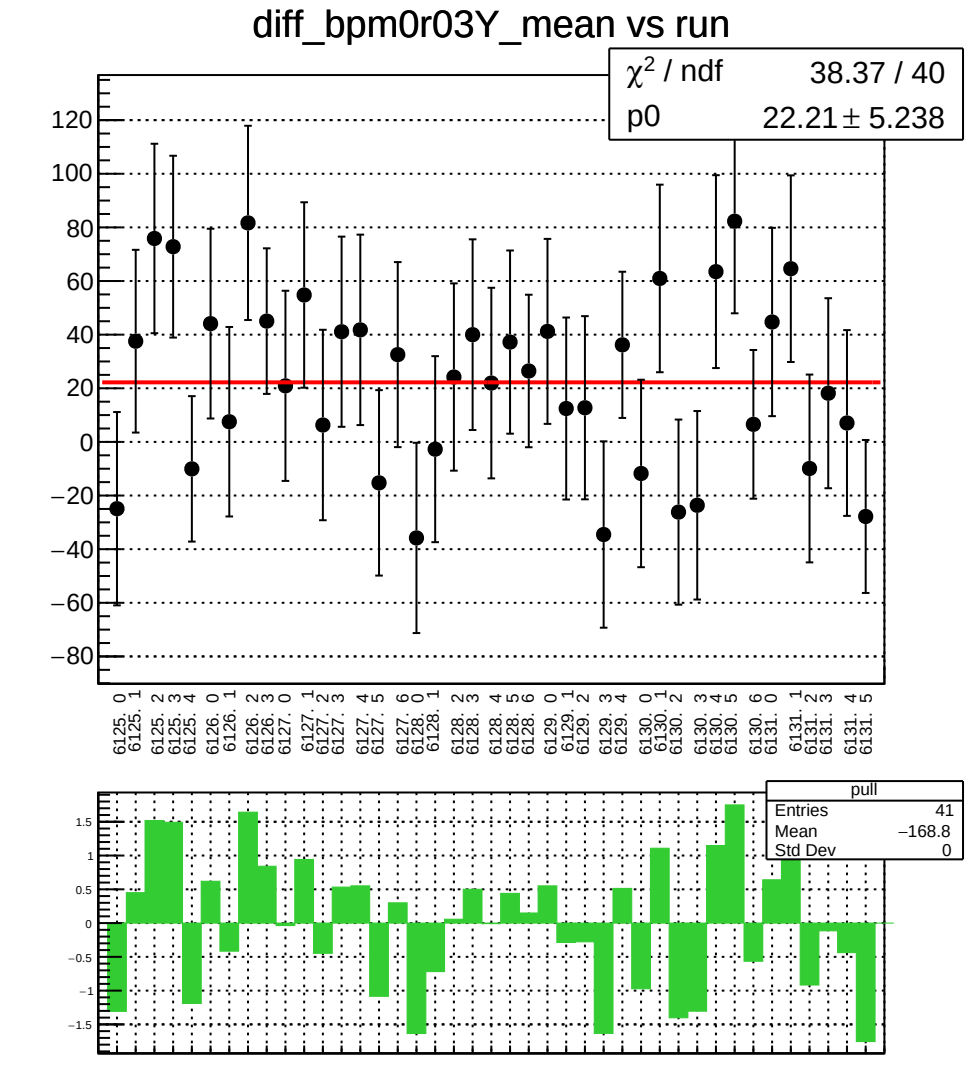

diff_bpm0l10Y_mean vs run
χ² / ndf 48.61 / 40
p0 −0.01568 ± 1.385
pull
Entries 41
Mean −130.6
Std Dev 0
pull1D
Entries 41
Mean −0.0221
Std Dev 1.089

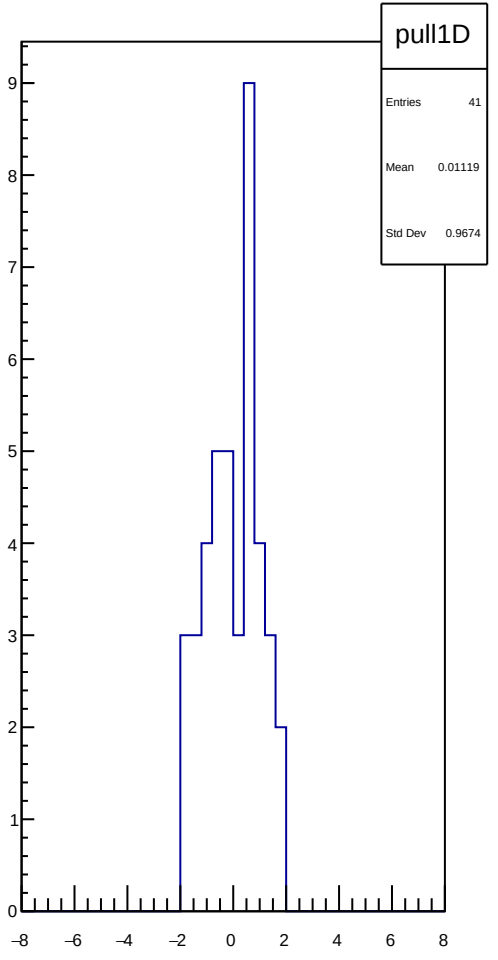

diff_bpm0l10Y_rms vs run
χ² / ndf 192.3 / 40
p0 878 ± 0.9792
960
940
920
900
880
860
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

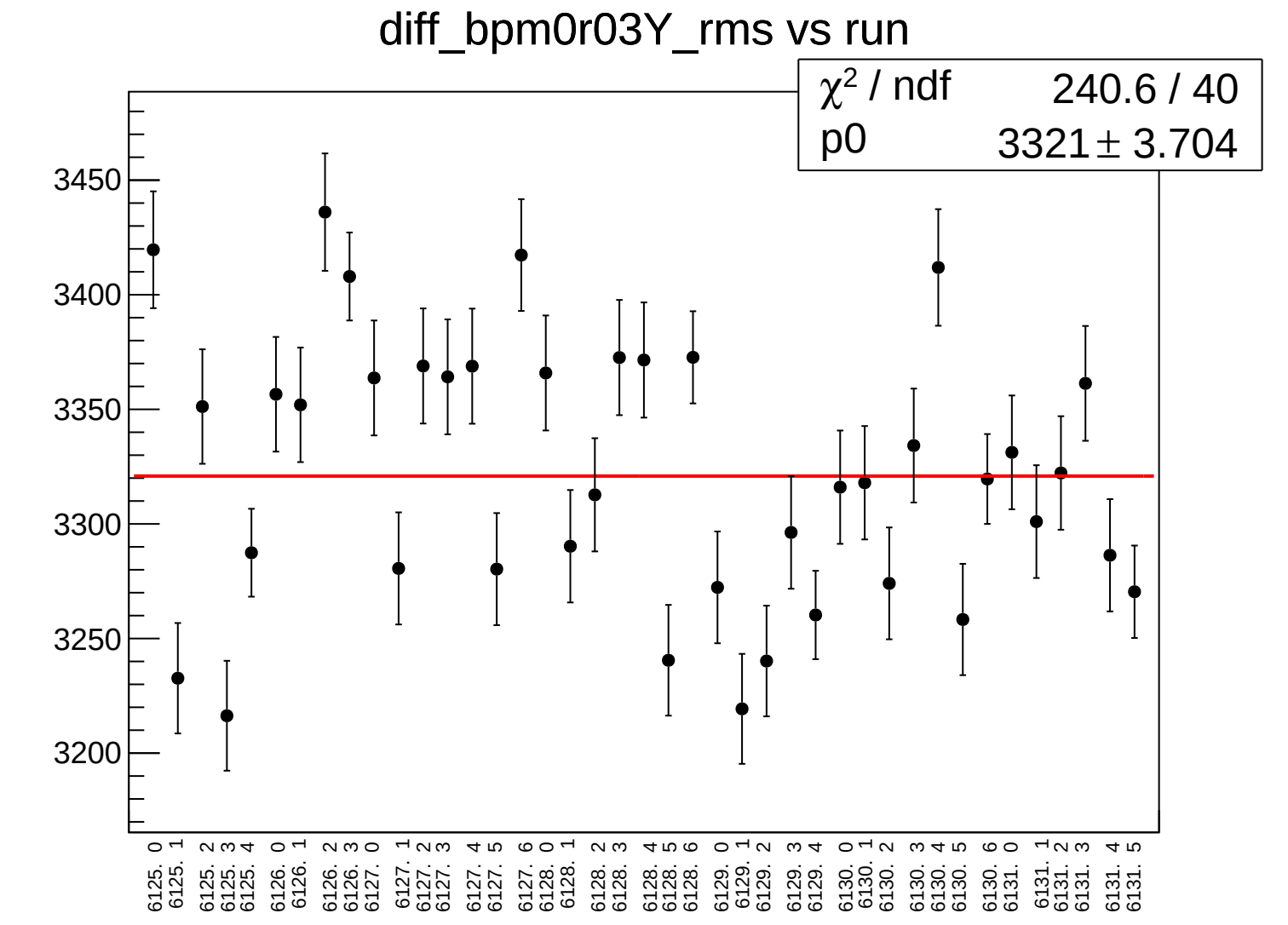

diff_bpm0r03X_mean vs run
χ² / ndf 68.18 / 40
p0 −223.8 ± 116.4
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −36.9
Std Dev 0
3
2
1
0
−1
−2
−3
−4

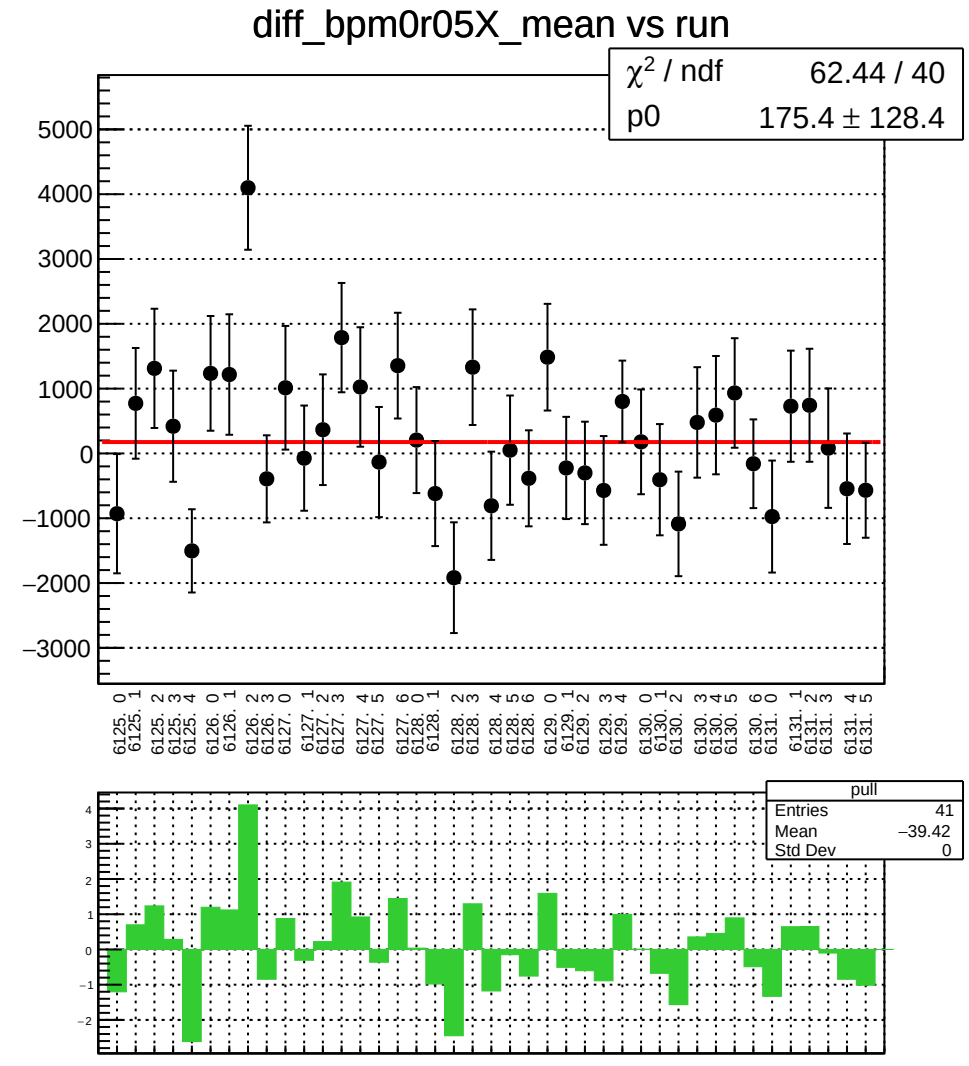

pull1D
Entries 41
Mean −0.04761
Std Dev 1.289
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

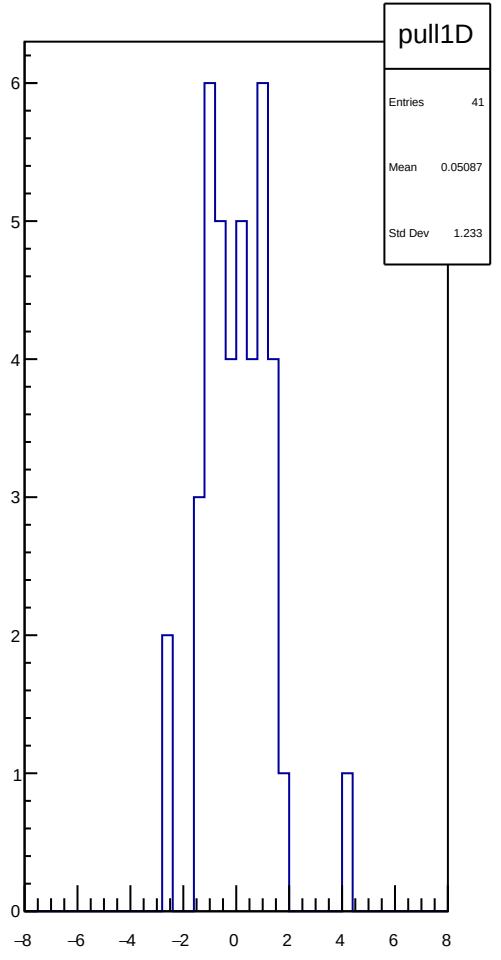

diff_bpm0r03X_rms vs run
χ² / ndf 1431 / 40
p0 7.374e+04 ± 82.3
82000
80000
78000
76000
74000
72000
70000
68000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

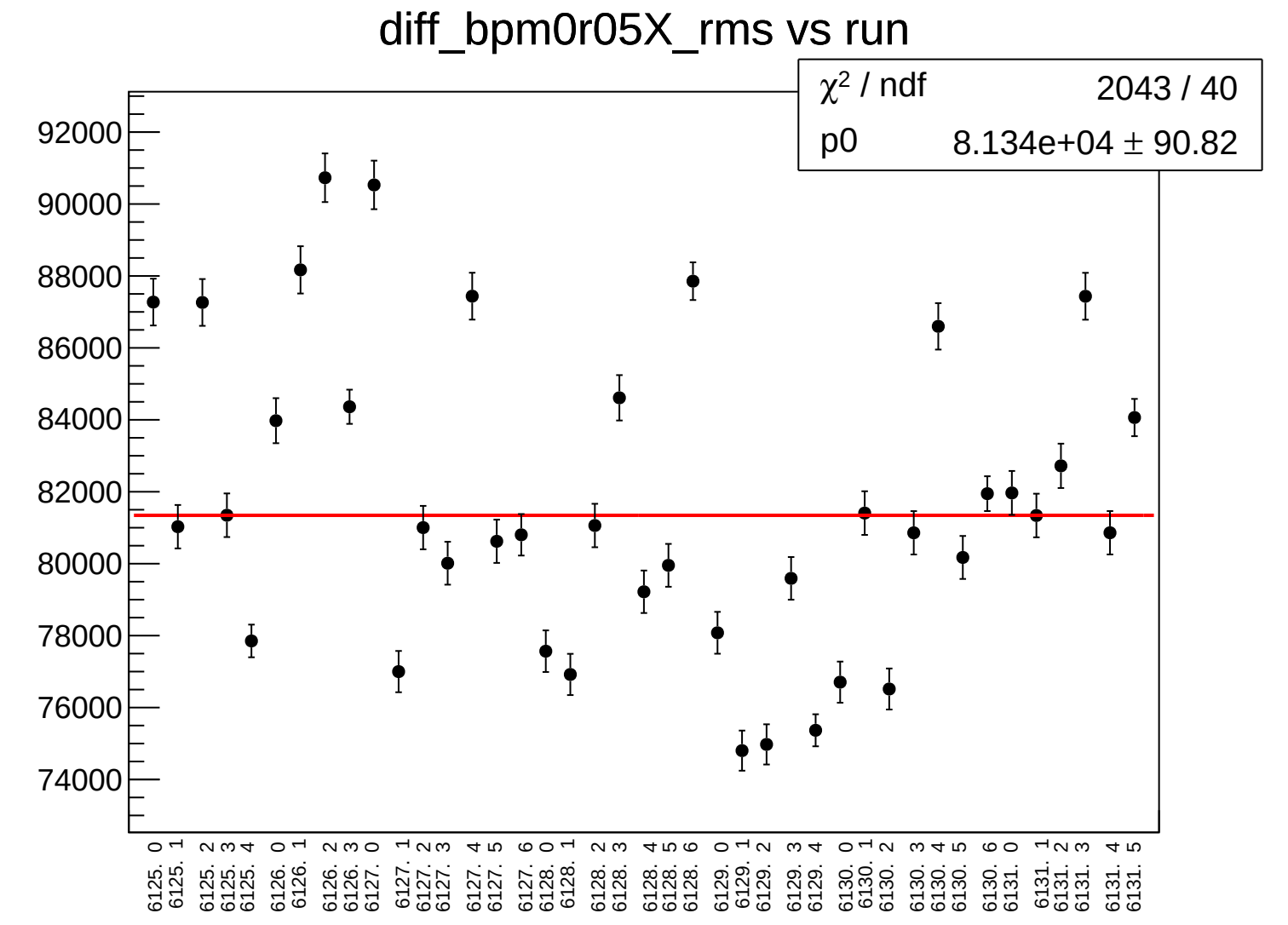

diff_bpm0r03Y_mean vs run
χ² / ndf 38.37 / 40
p0 22.21 ± 5.238
pull
Entries 41
Mean −168.8
Std Dev 0

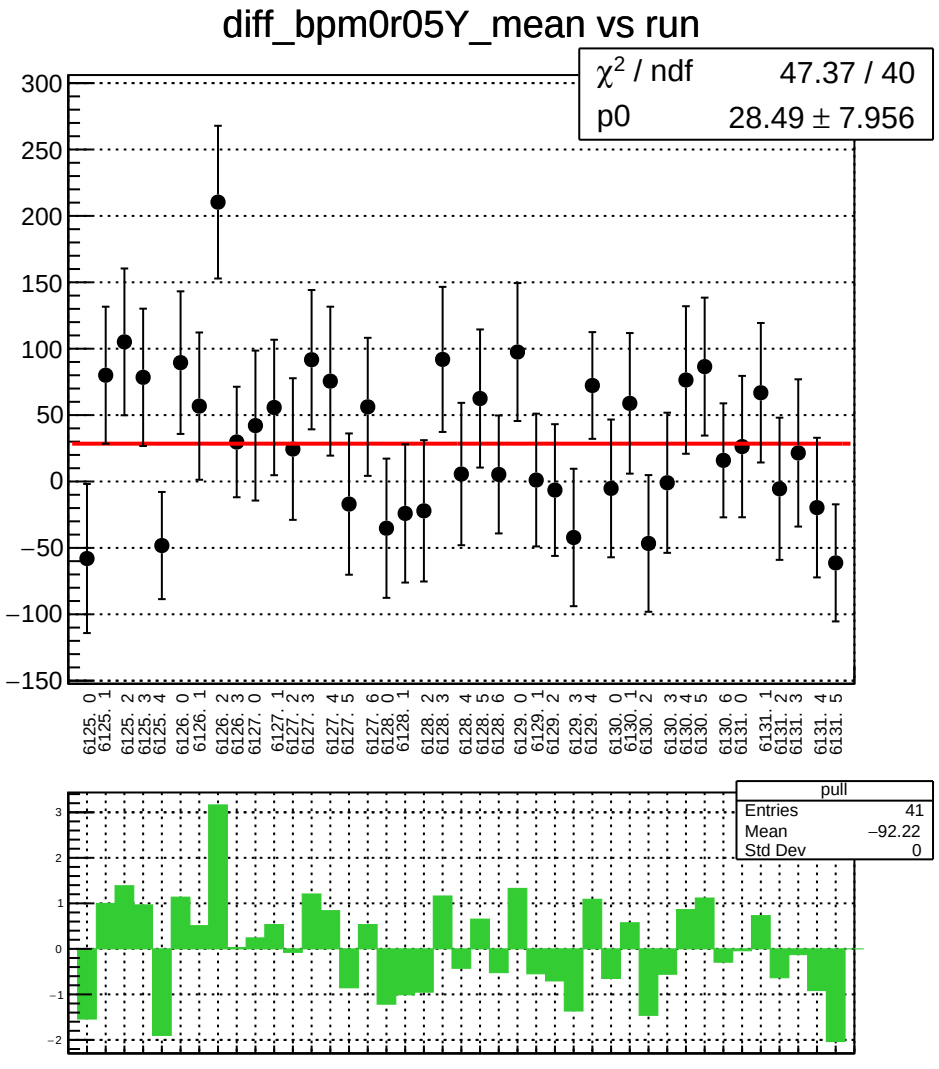

pull1D
Entries 41
Mean 0.01119
Std Dev 0.9674

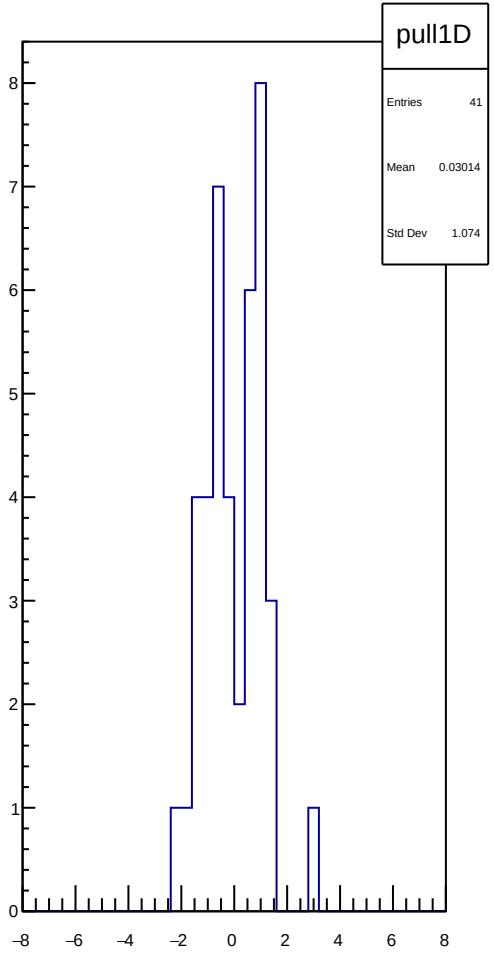

diff_bpm0r03Y_rms vs run
χ² / ndf 240.6 / 40
p0 3321 ± 3.704
3450
3400
3350
3300
3250
3200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

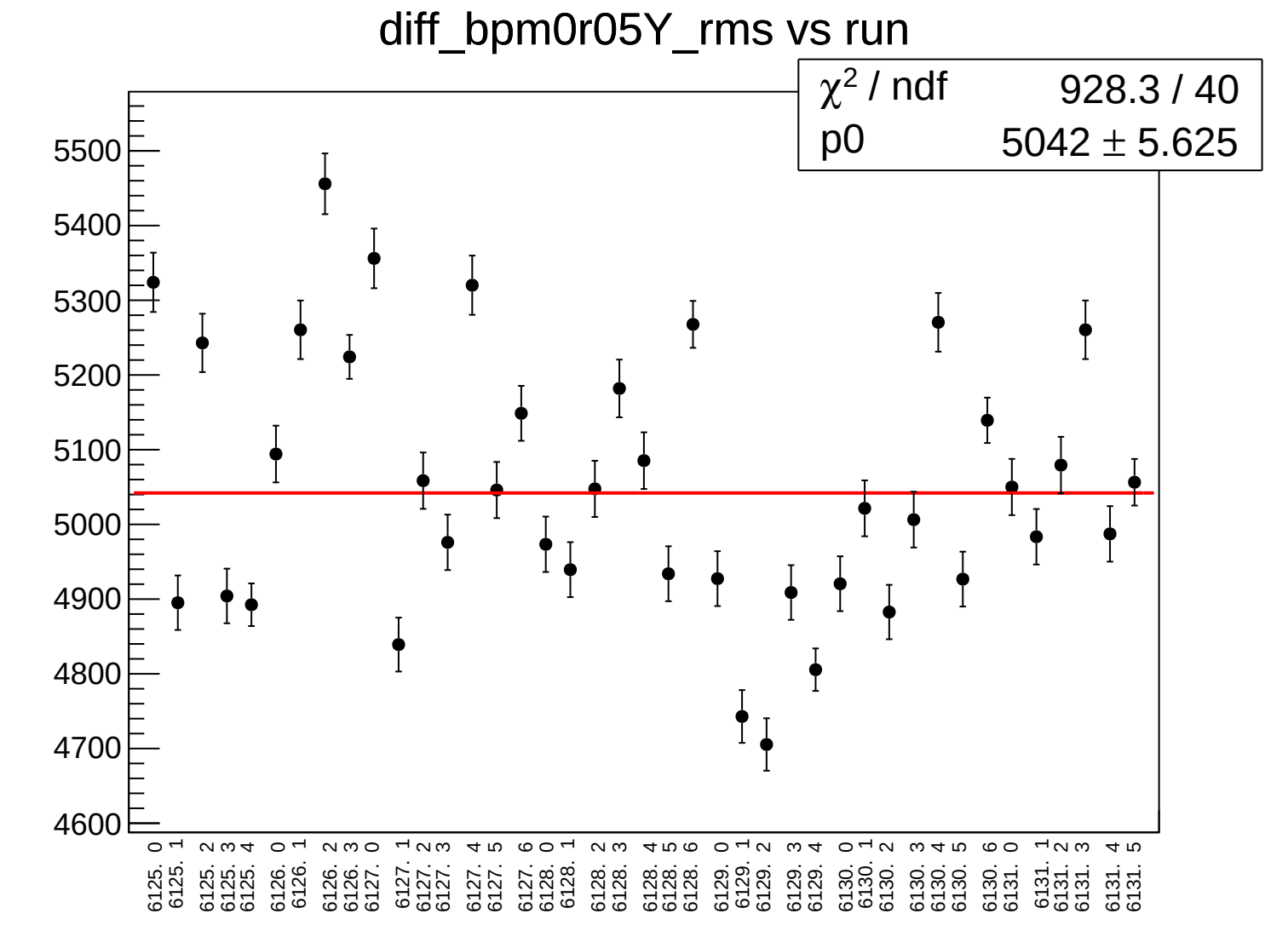

diff_bpm0r05X_mean vs run
χ² / ndf 62.44 / 40
p0 175.4 ± 128.4
pull
Entries 41
Mean −39.42
Std Dev 0

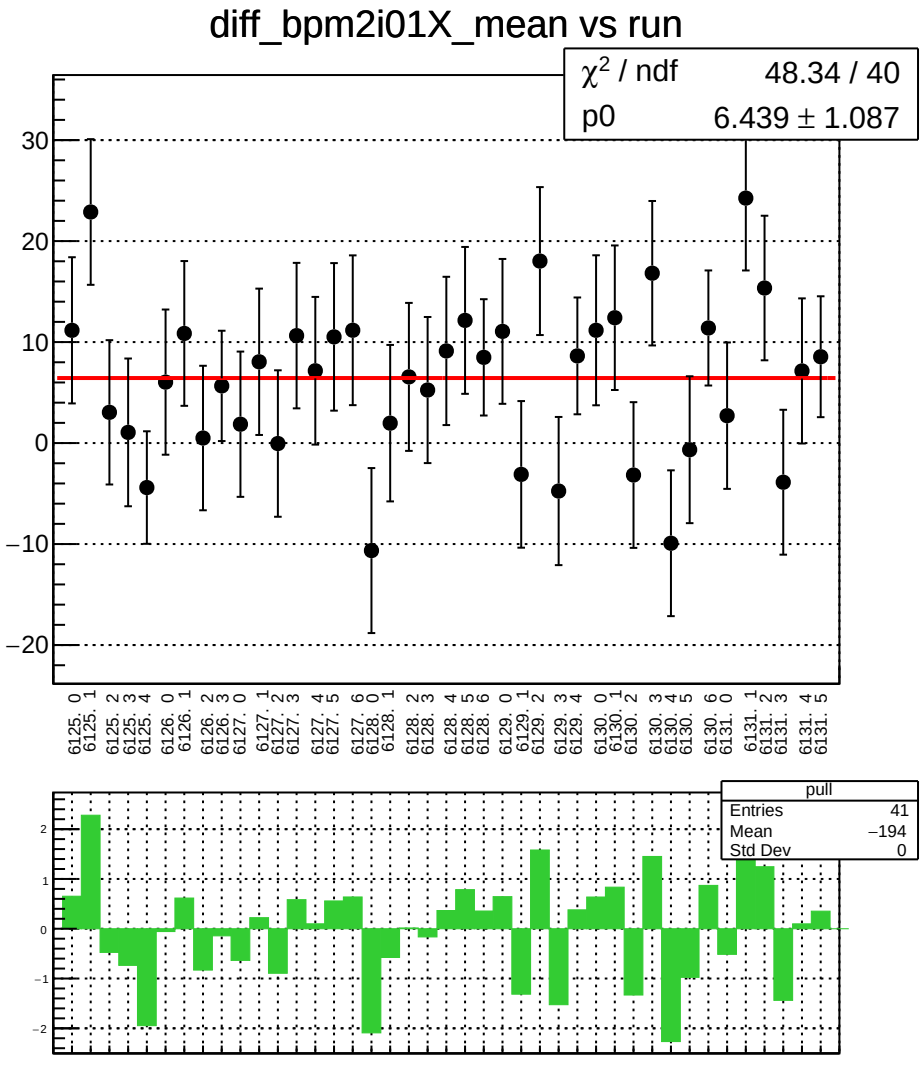

pull1D
Entries 41
Mean 0.05087
Std Dev 1.233

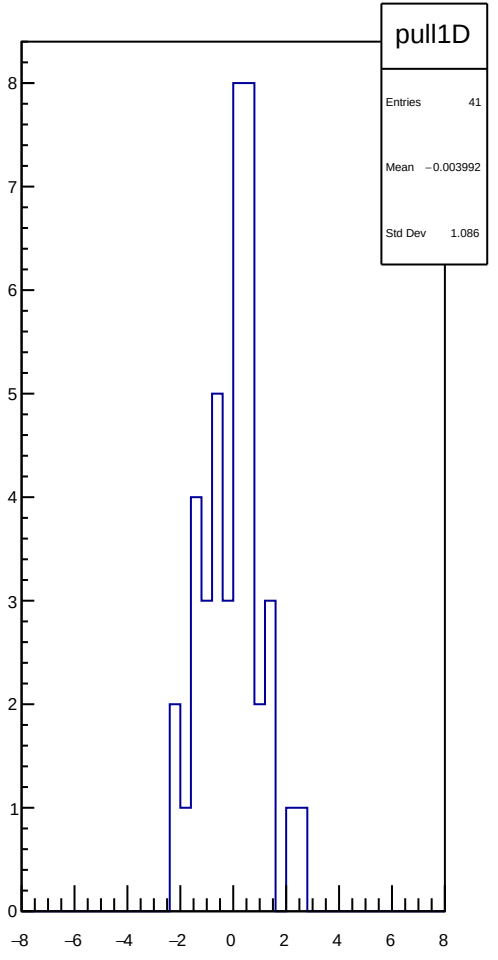

diff_bpm0r05X_rms vs run
χ² / ndf 2043 / 40
p0 8.134e+04 ± 90.82
92000
90000
88000
86000
84000
82000
80000
78000
76000
74000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

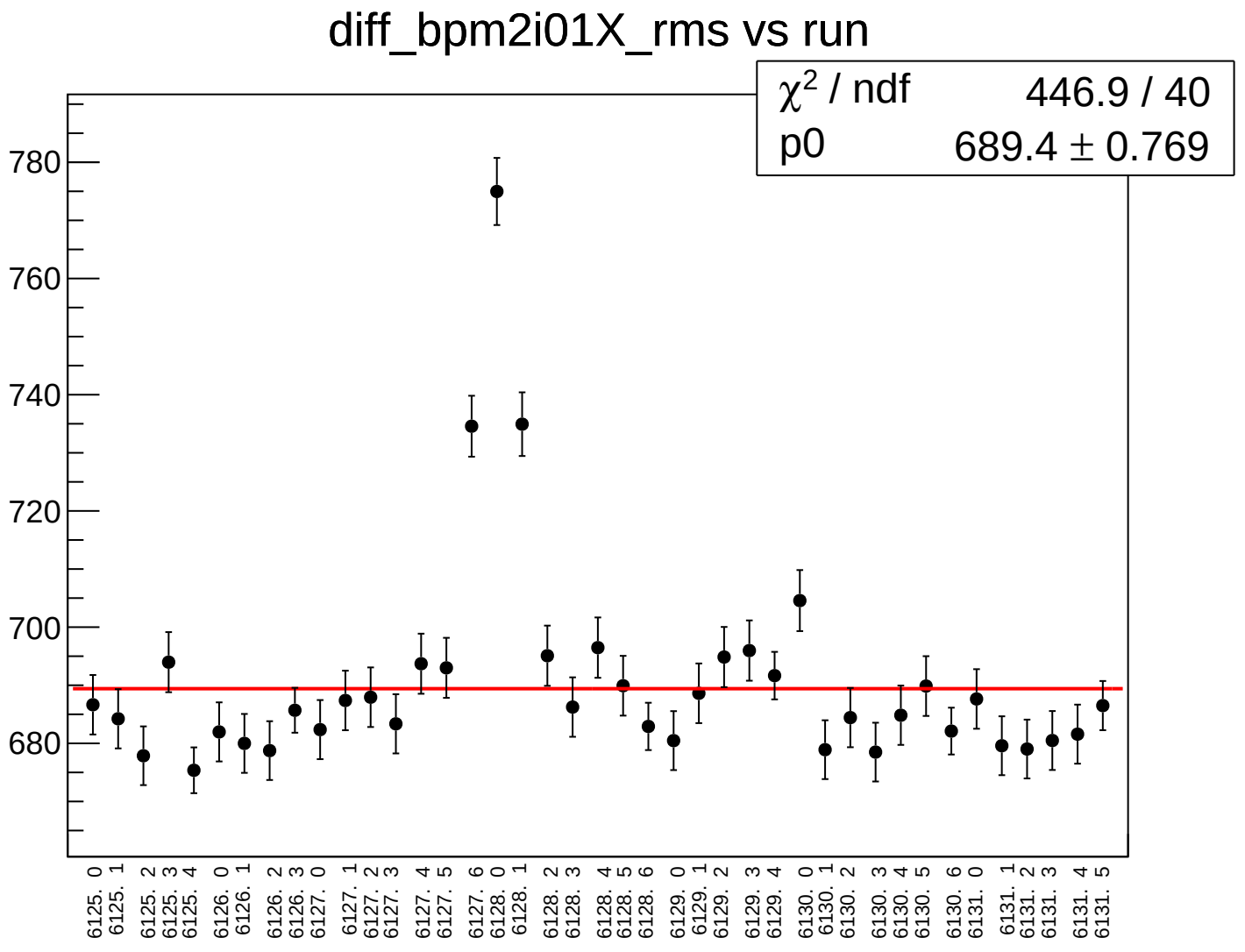

diff_bpm0r05Y_mean vs run
χ² / ndf 47.37 / 40
p0 28.49 ± 7.956
pull
Entries 41
Mean −92.22
Std Dev 0

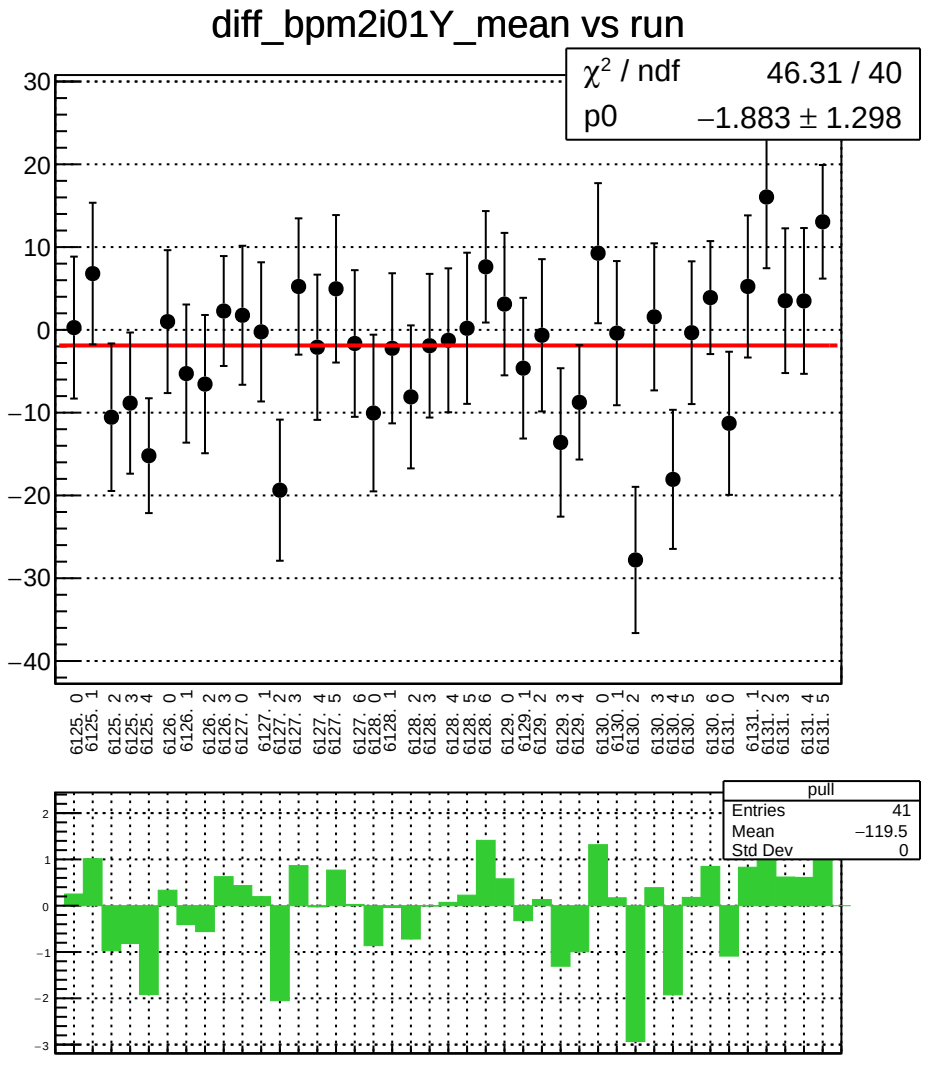

pull1D
Entries 41
Mean 0.03014
Std Dev 1.074

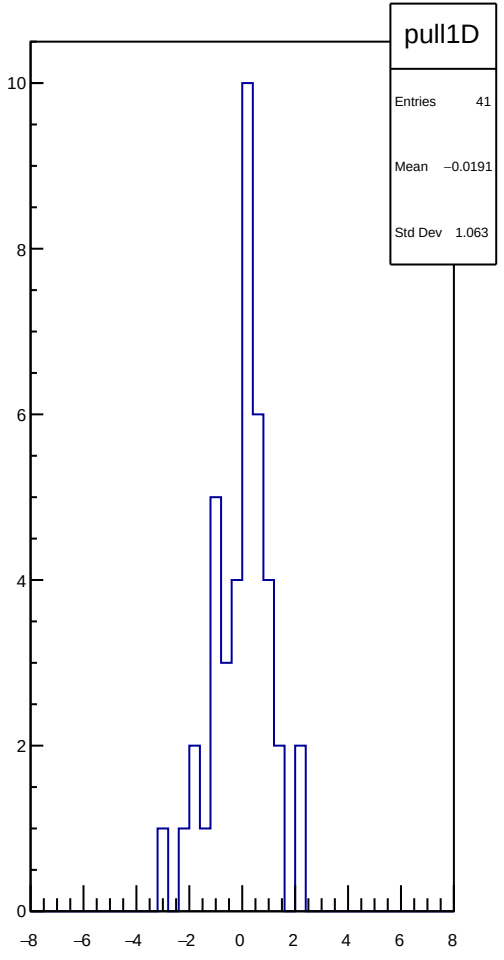

diff_bpm0r05Y_rms vs run
χ² / ndf 928.3 / 40
p0 5042 ± 5.625
5500
5400
5300
5200
5100
5000
4900
4800
4700
4600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

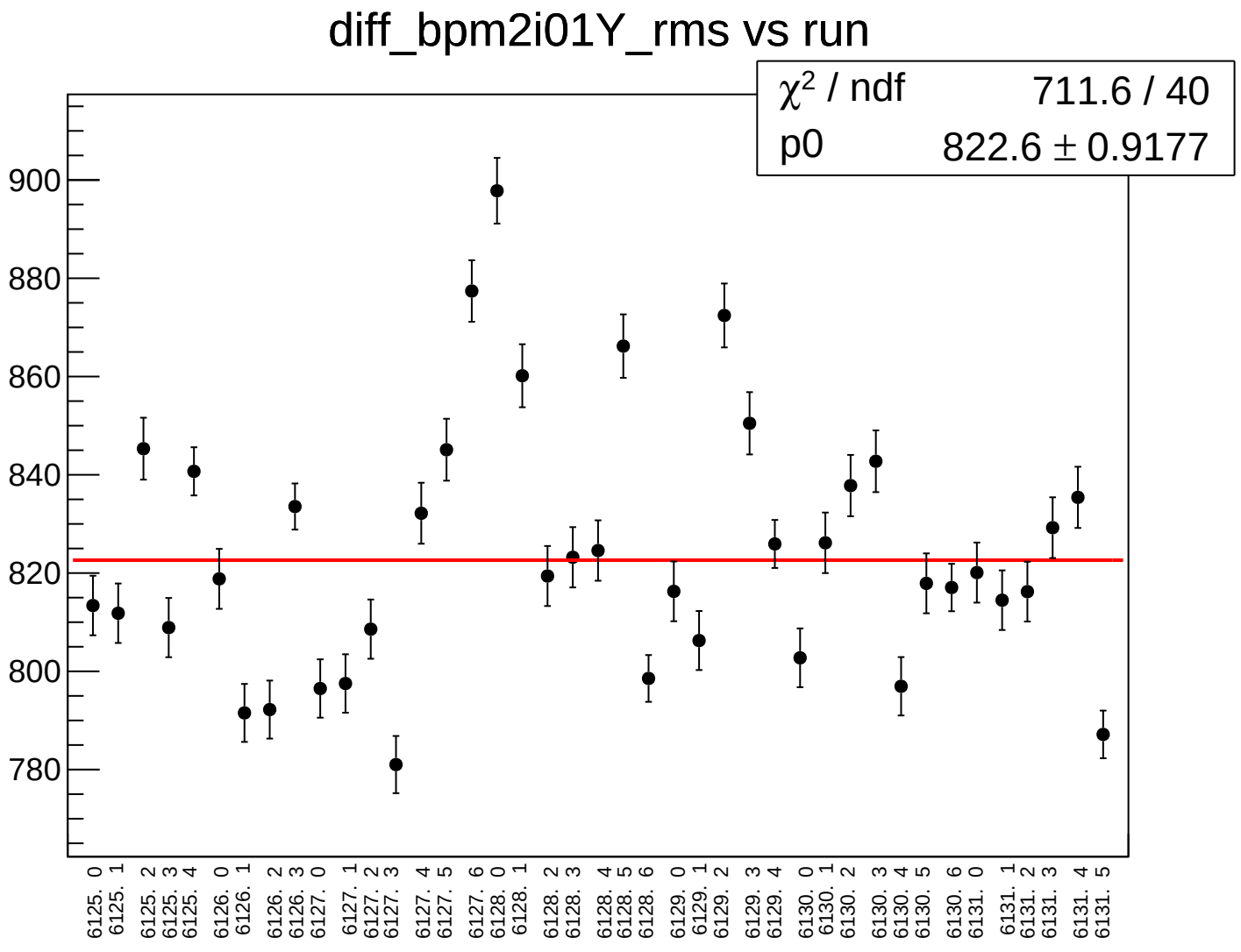

diff_bpm2i01X_mean vs run
χ² / ndf 48.34 / 40
p0 6.439 ± 1.087
30
20
10
0
−10
−20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −194
Std Dev 0
2
1
0
−1
−2

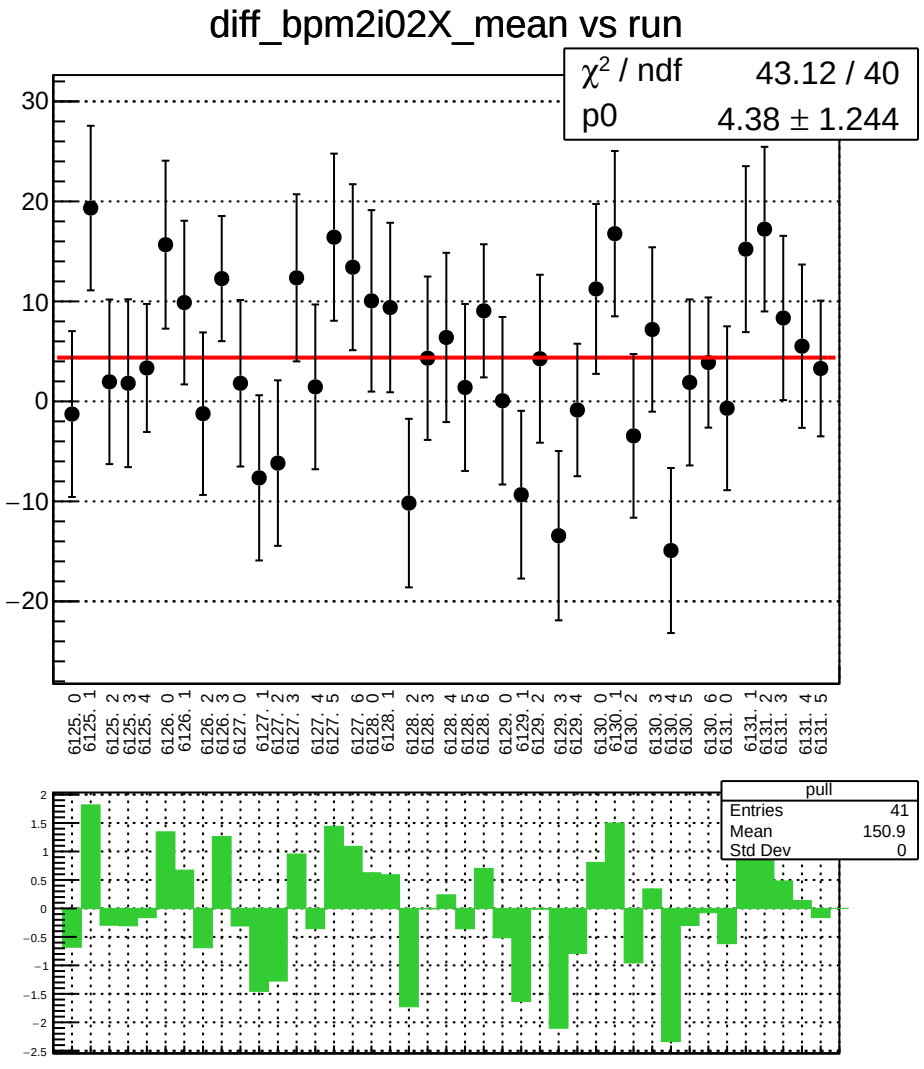

pull1D
Entries 41
Mean −0.003992
Std Dev 1.086
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

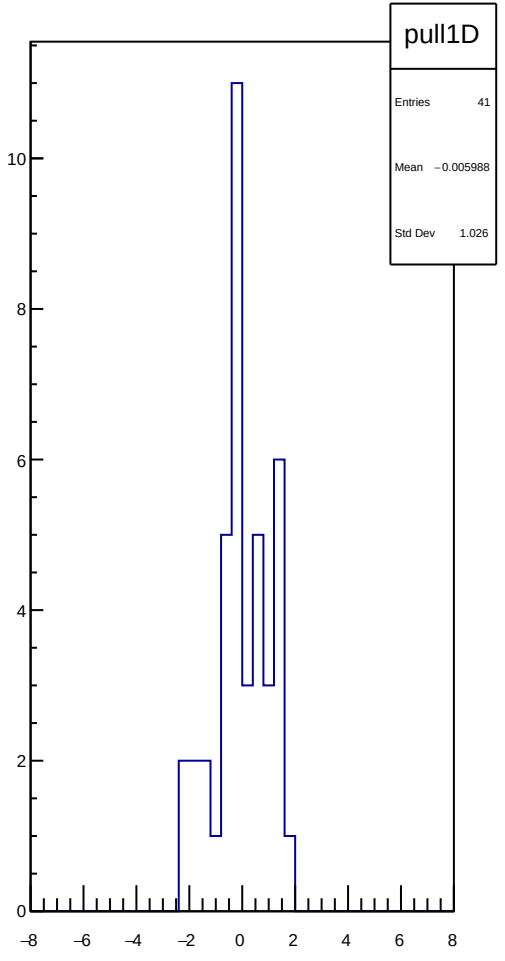

diff_bpm2i01X_rms vs run
χ² / ndf 446.9 / 40
p0 689.4 ± 0.769
780
760
740
720
700
680
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

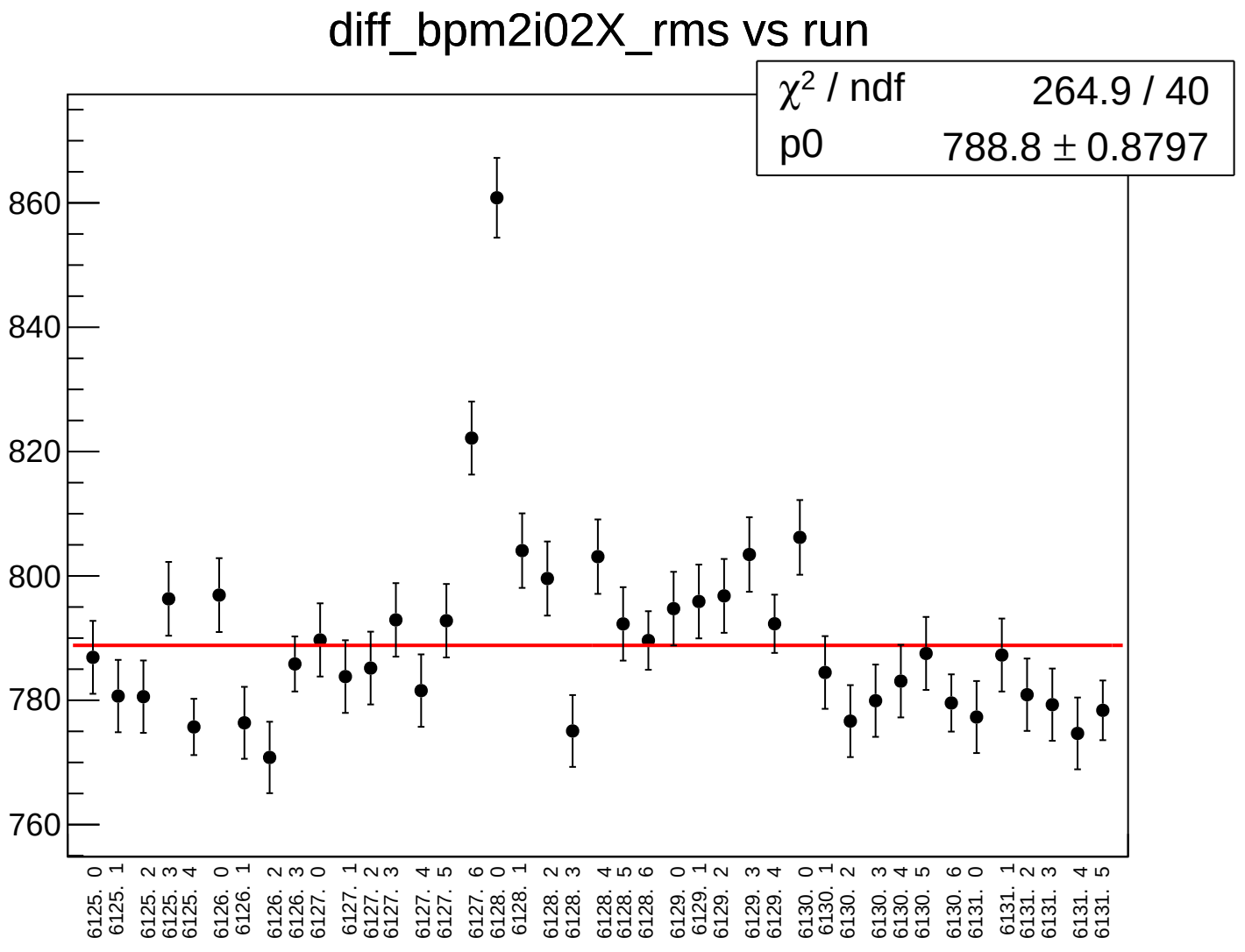

diff_bpm2i01Y_mean vs run
χ² / ndf 46.31 / 40
p0 −1.883 ± 1.298
pull
Entries 41
Mean −119.5
Std Dev 0

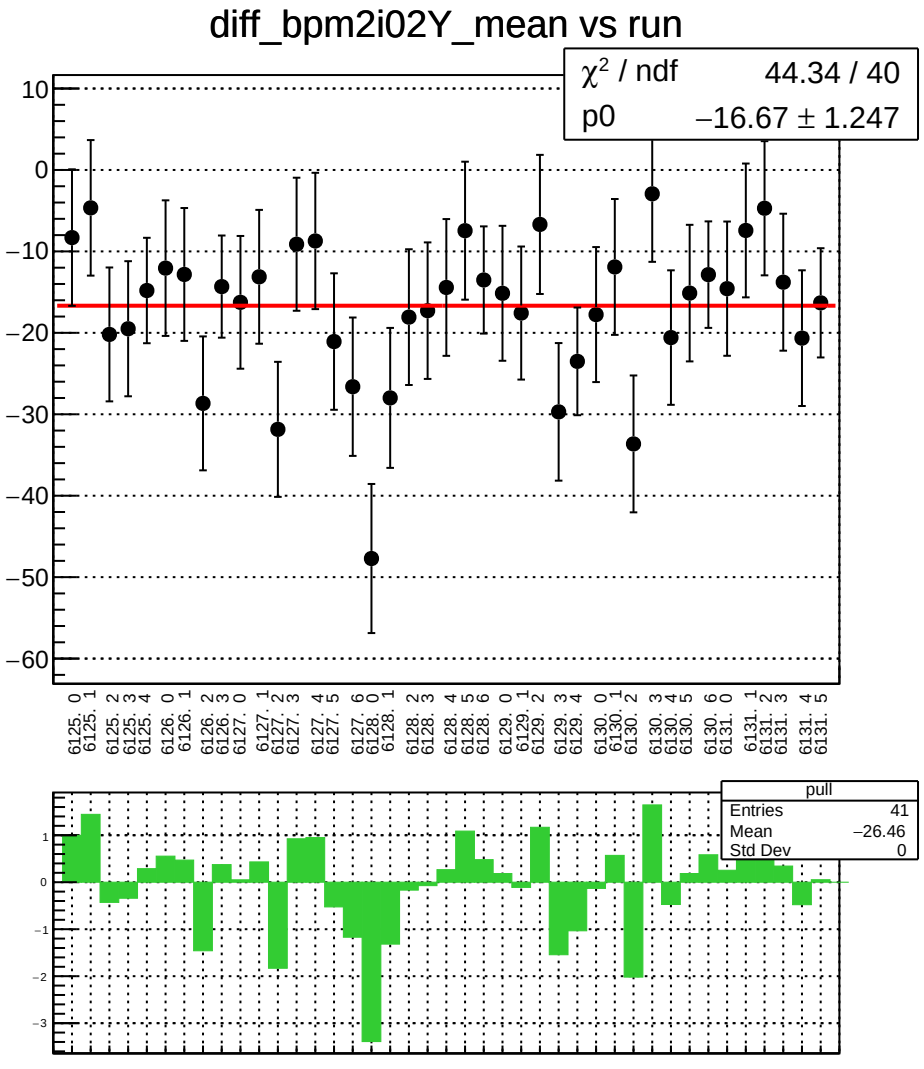

pull1D
Entries 41
Mean −0.0191
Std Dev 1.063

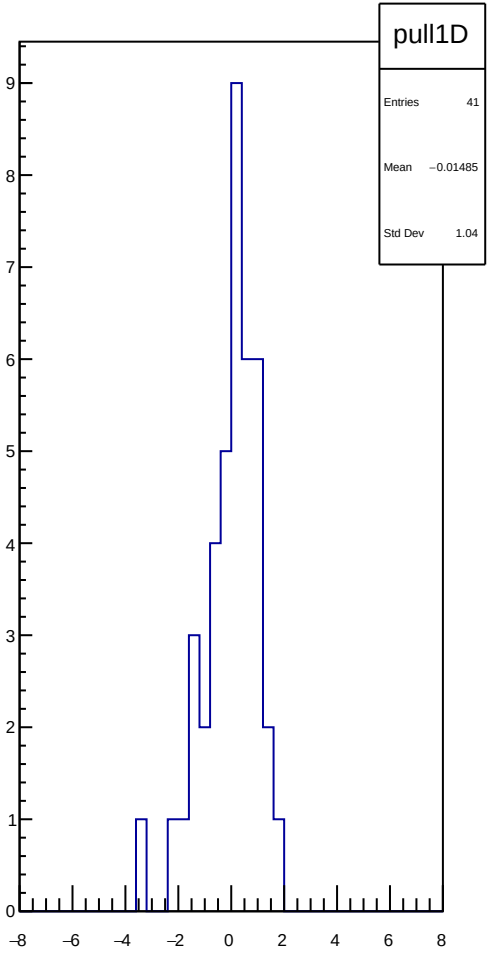

diff_bpm2i01Y_rms vs run
χ² / ndf 711.6 / 40
p0 822.6 ± 0.9177
900
880
860
840
820
800
780
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

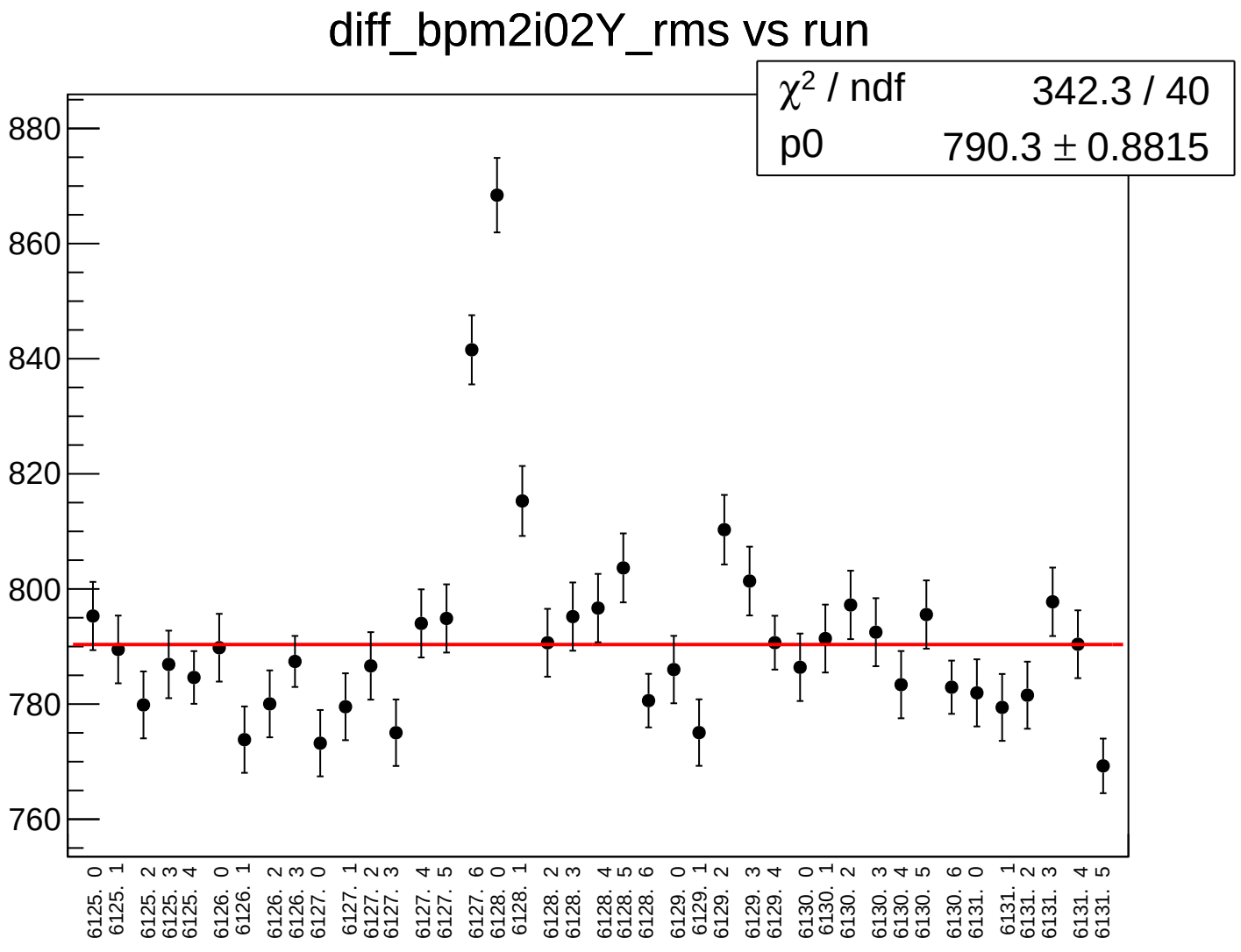

diff_bpm2i02X_mean vs run
χ² / ndf 43.12 / 40
p0 4.38 ± 1.244
pull
Entries 41
Mean 150.9
Std Dev 0

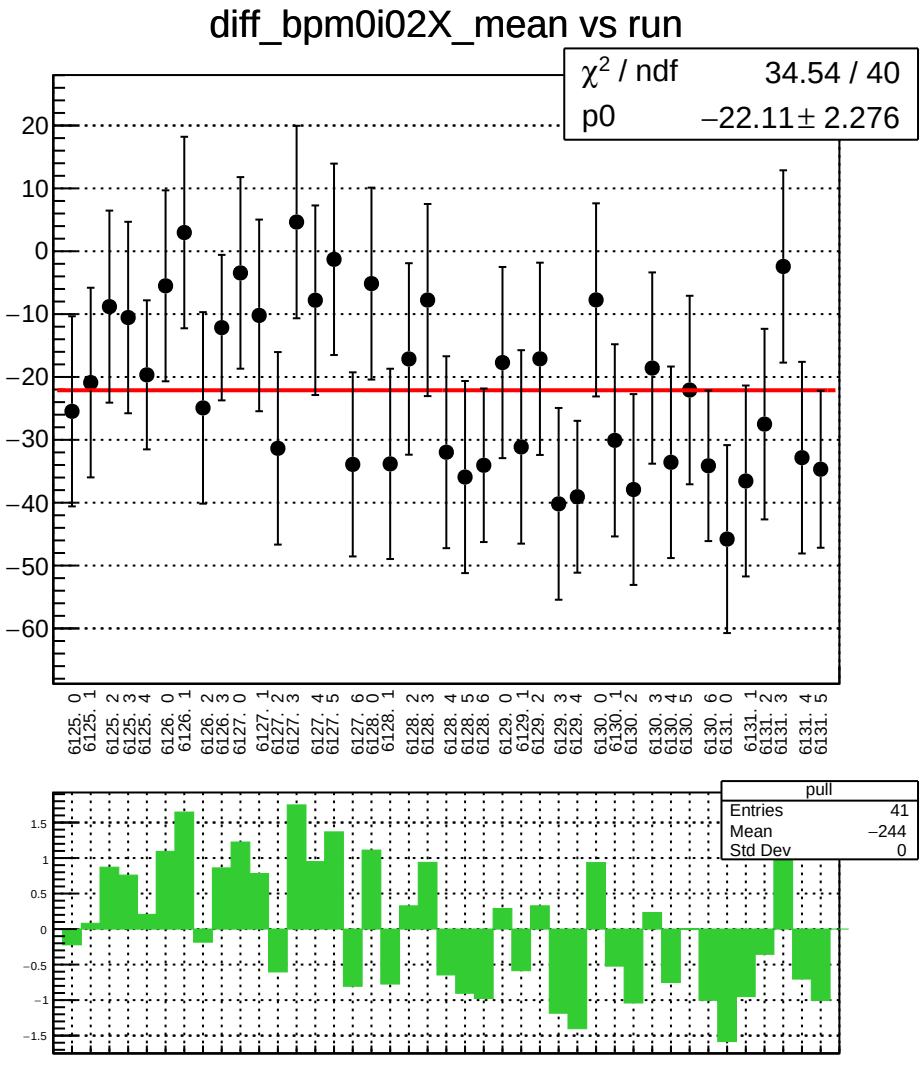

pull1D
Entries 41
Mean −0.005988
Std Dev 1.026

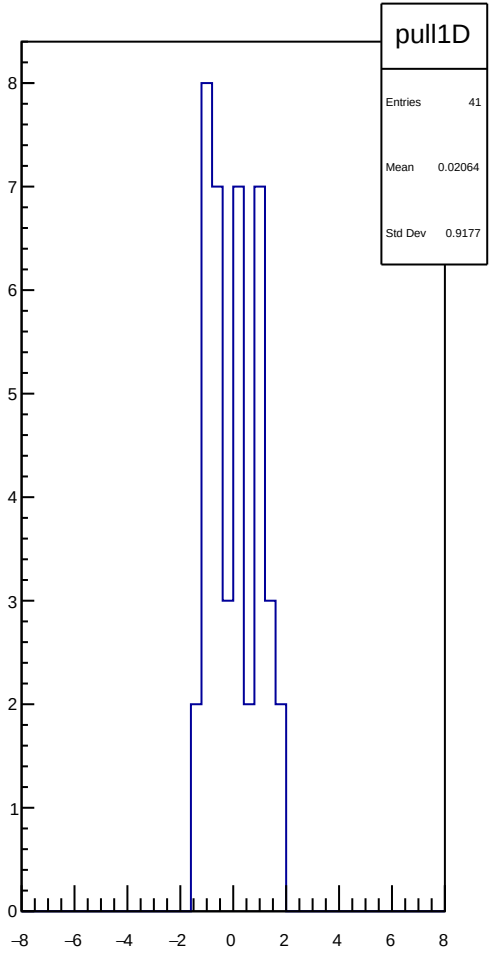

diff_bpm2i02X_rms vs run
χ² / ndf 264.9 / 40
p0 788.8 ± 0.8797
860
840
820
800
780
760
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

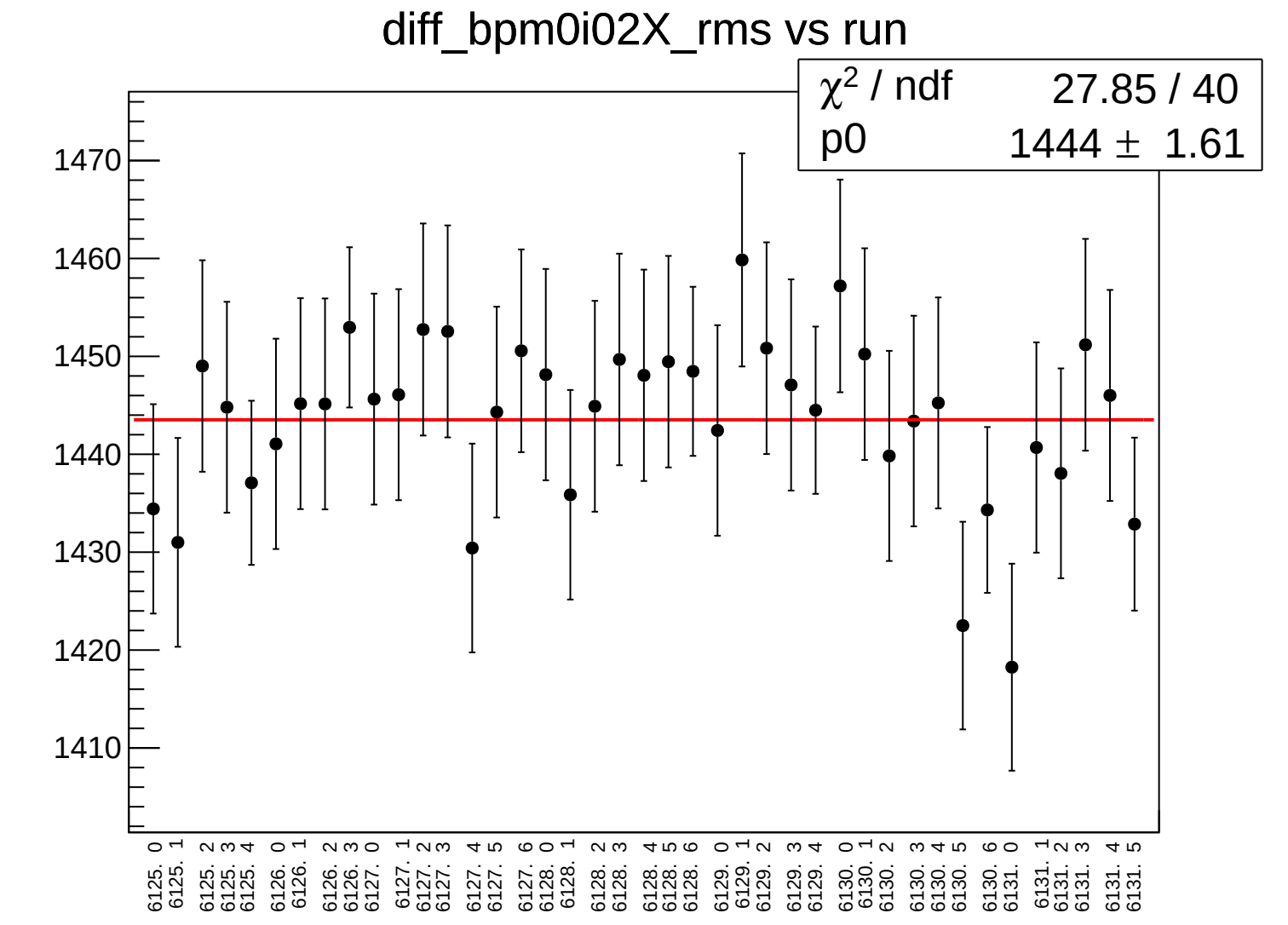

diff_bpm2i02Y_mean vs run
χ² / ndf 44.34 / 40
p0 −16.67 ± 1.247
pull
Entries 41
Mean −26.46
Std Dev 0

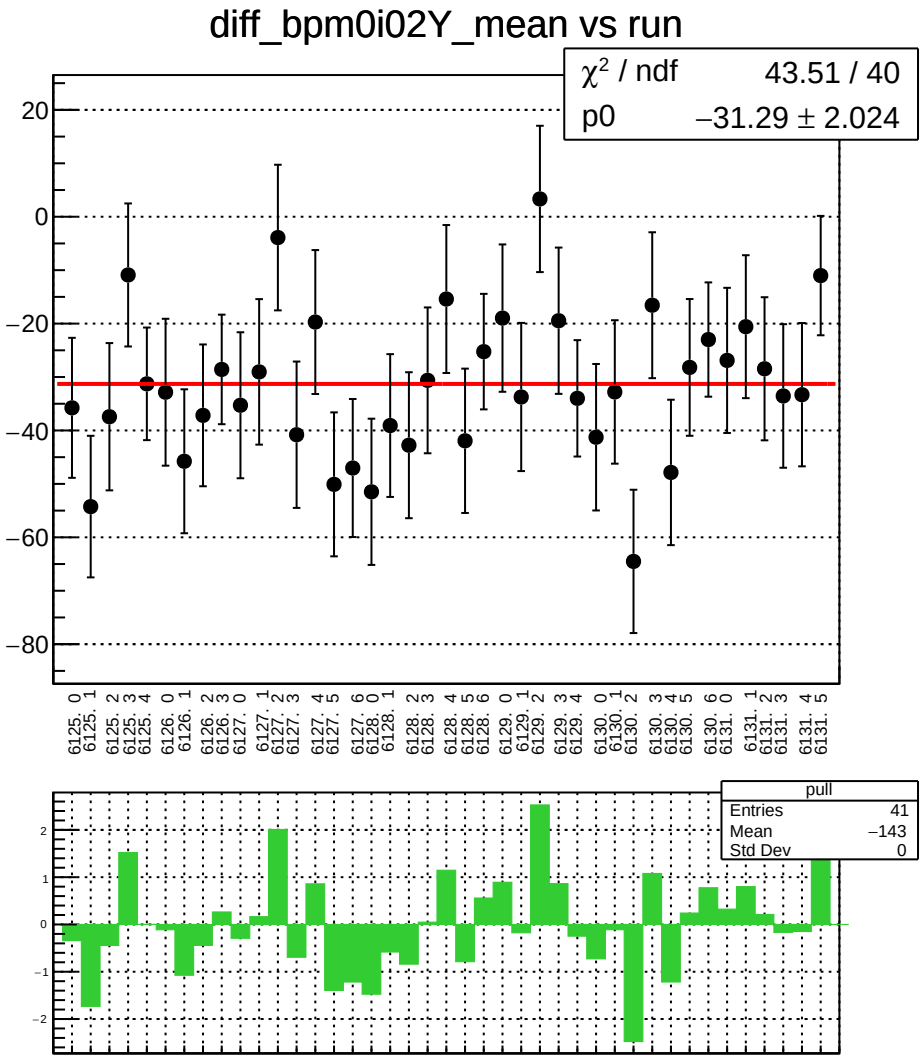

pull1D
Entries 41
Mean −0.01485
Std Dev 1.04

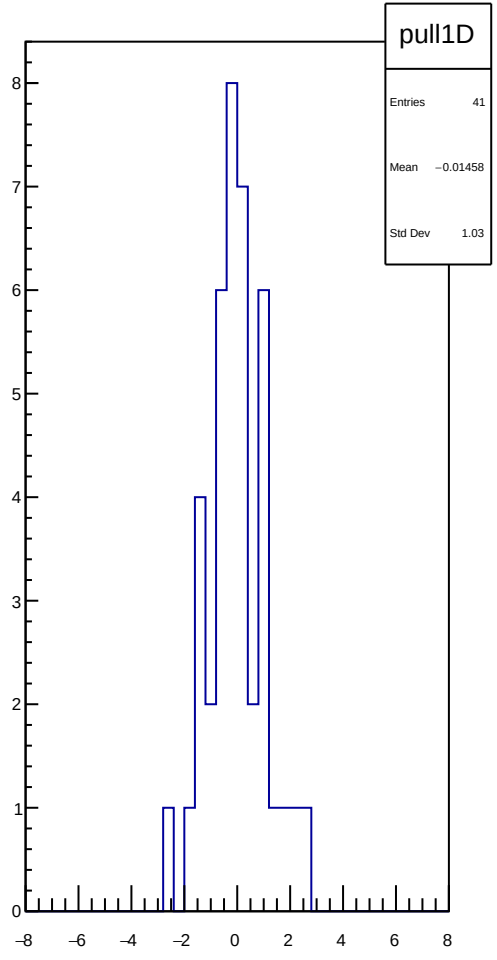

diff_bpm2i02Y_rms vs run
χ² / ndf 342.3 / 40
p0 790.3 ± 0.8815
880
860
840
820
800
780
760
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

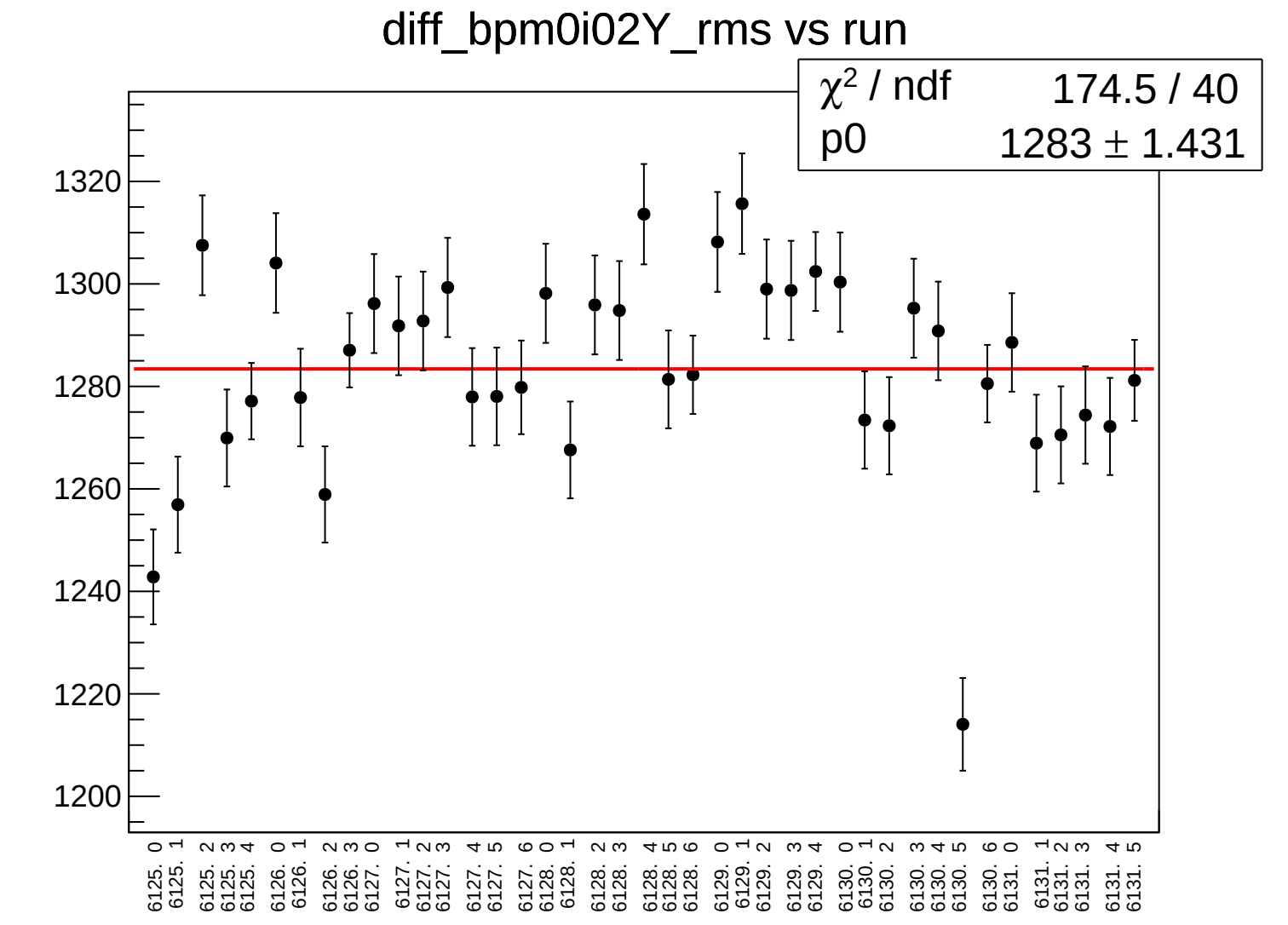

diff_bpm0i02X_mean vs run
χ² / ndf 34.54 / 40
p0 −22.11± 2.276
pull
Entries 41
Mean −244
Std Dev 0

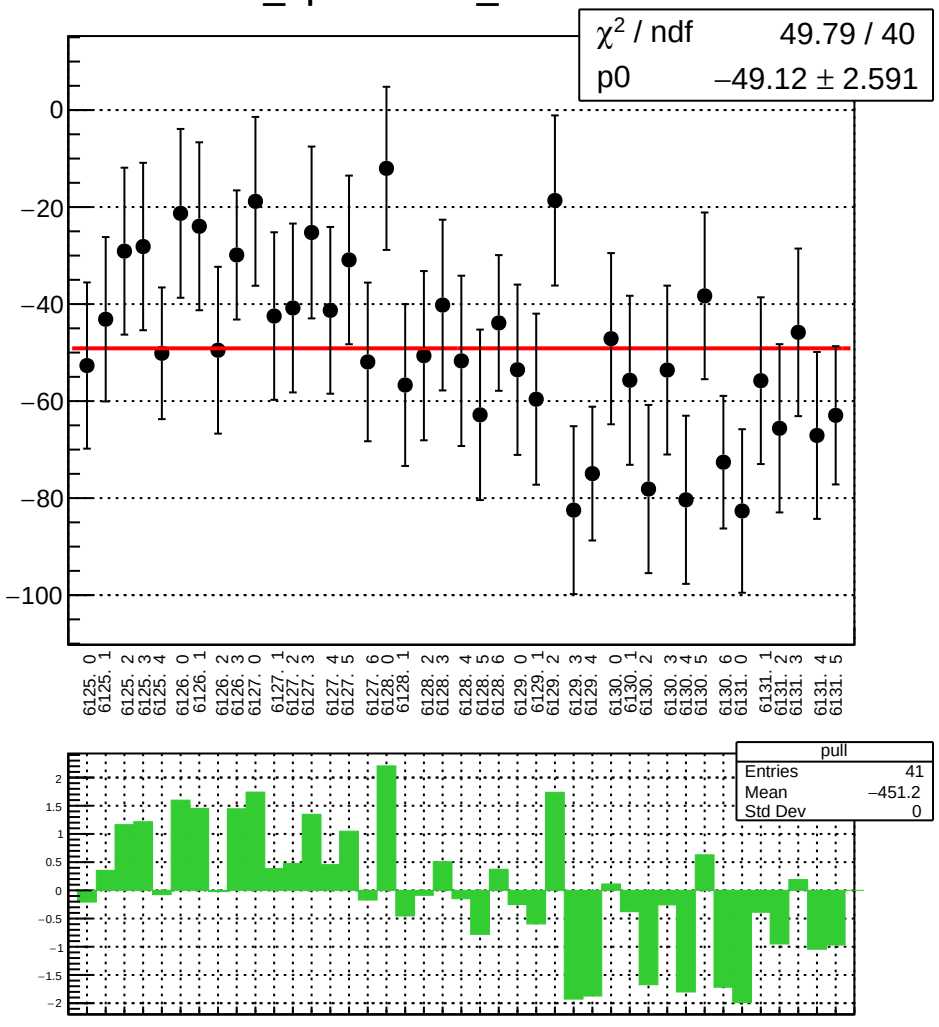

pull1D
Entries 41
Mean 0.02064
Std Dev 0.9177

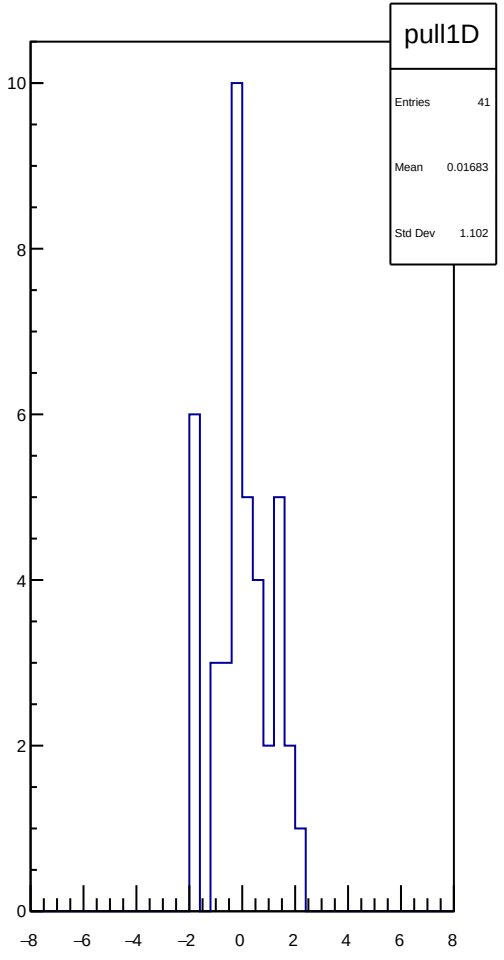

diff_bpm0i02X_rms vs run
χ² / ndf 27.85 / 40
p0 1444 ± 1.61
1470
1460
1450
1440
1430
1420
1410
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

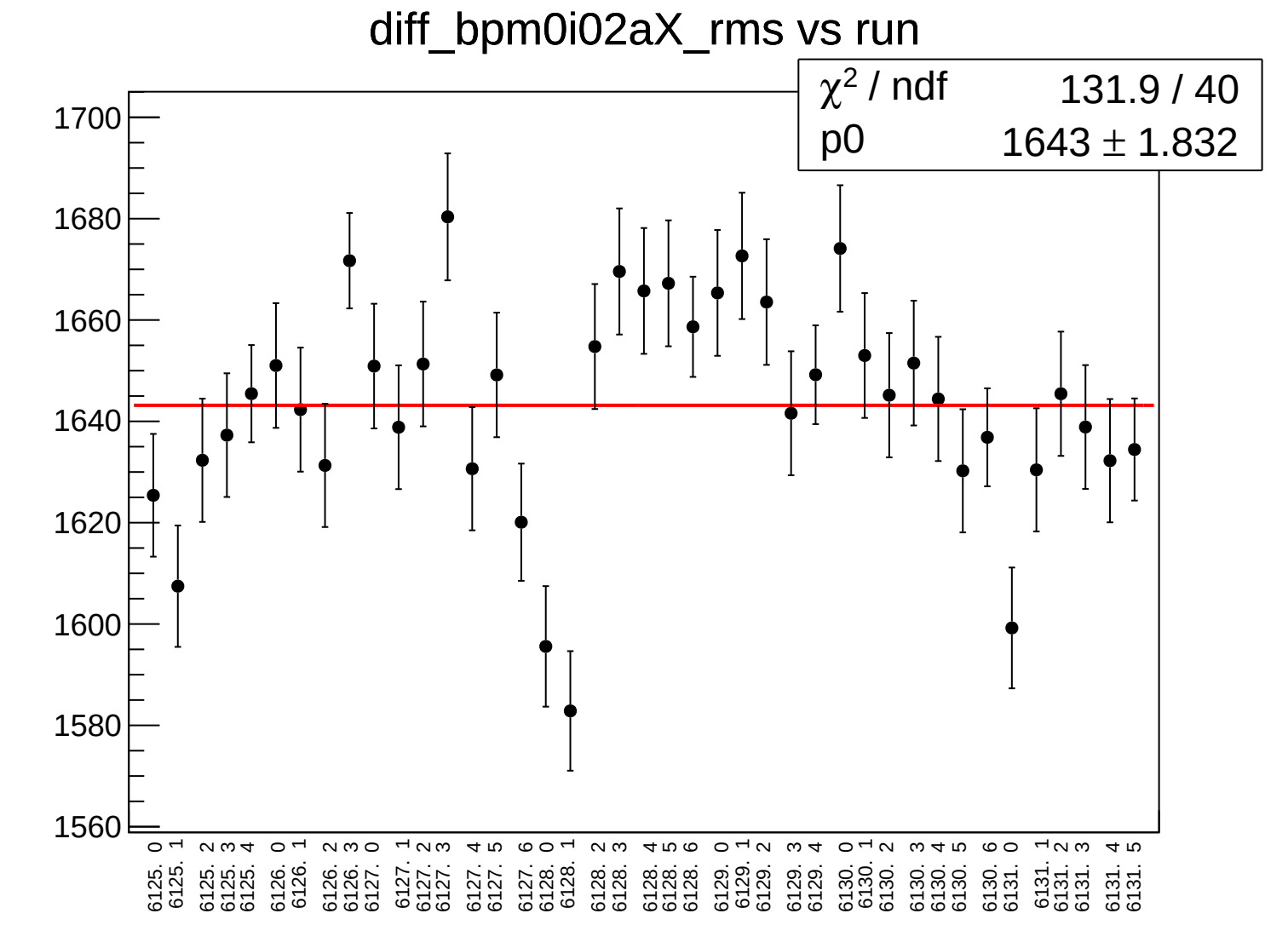

diff_bpm0i02Y_mean vs run
χ² / ndf 43.51 / 40
p0 −31.29 ± 2.024
20
0
−20
−40
−60
−80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −143
Std Dev 0
2
1
0
−1
−2

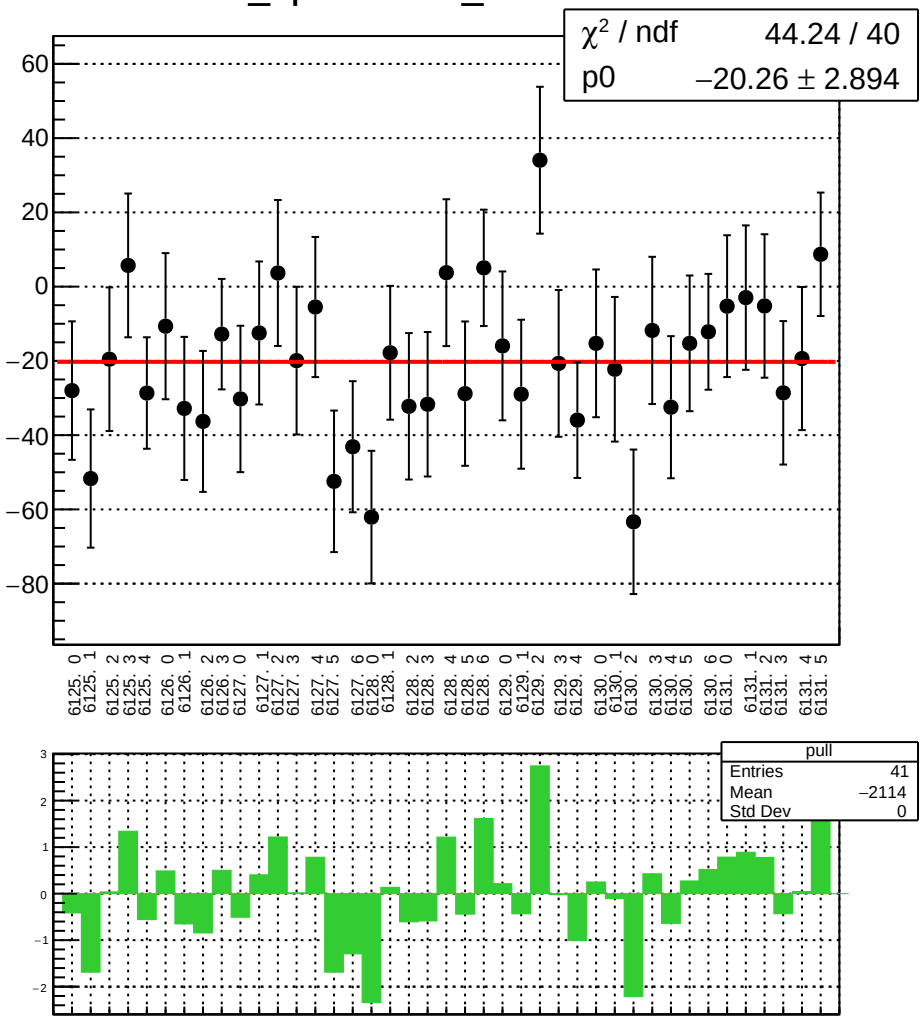

pull1D
Entries 41
Mean −0.01458
Std Dev 1.03
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

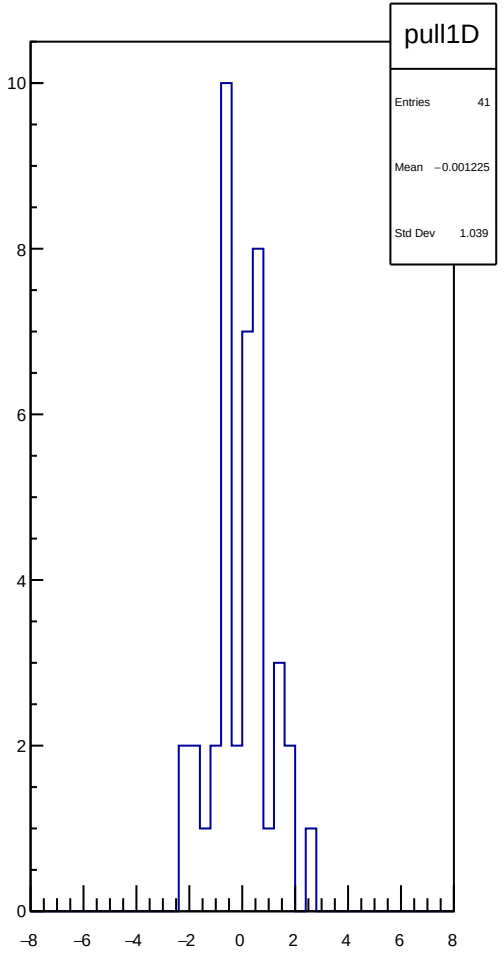

diff_bpm0i02Y_rms vs run
χ² / ndf 174.5 / 40
p0 1283 ± 1.431
1320
1300
1280
1260
1240
1220
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

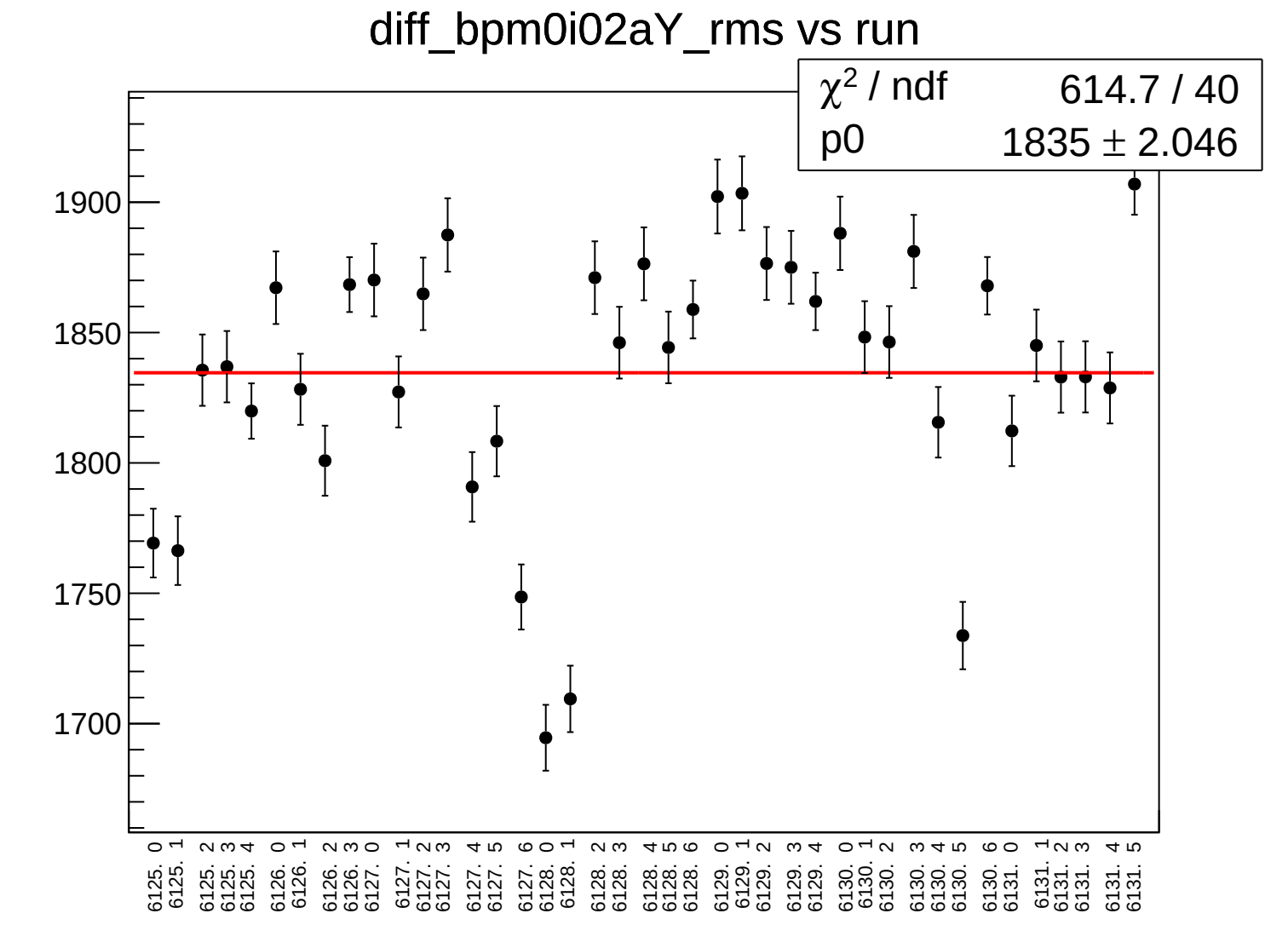

diff_bpm0i02aX_mean vs run
χ² / ndf 49.79 / 40
p0 −49.12 ± 2.591
0
−20
−40
−60
−80
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −451.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

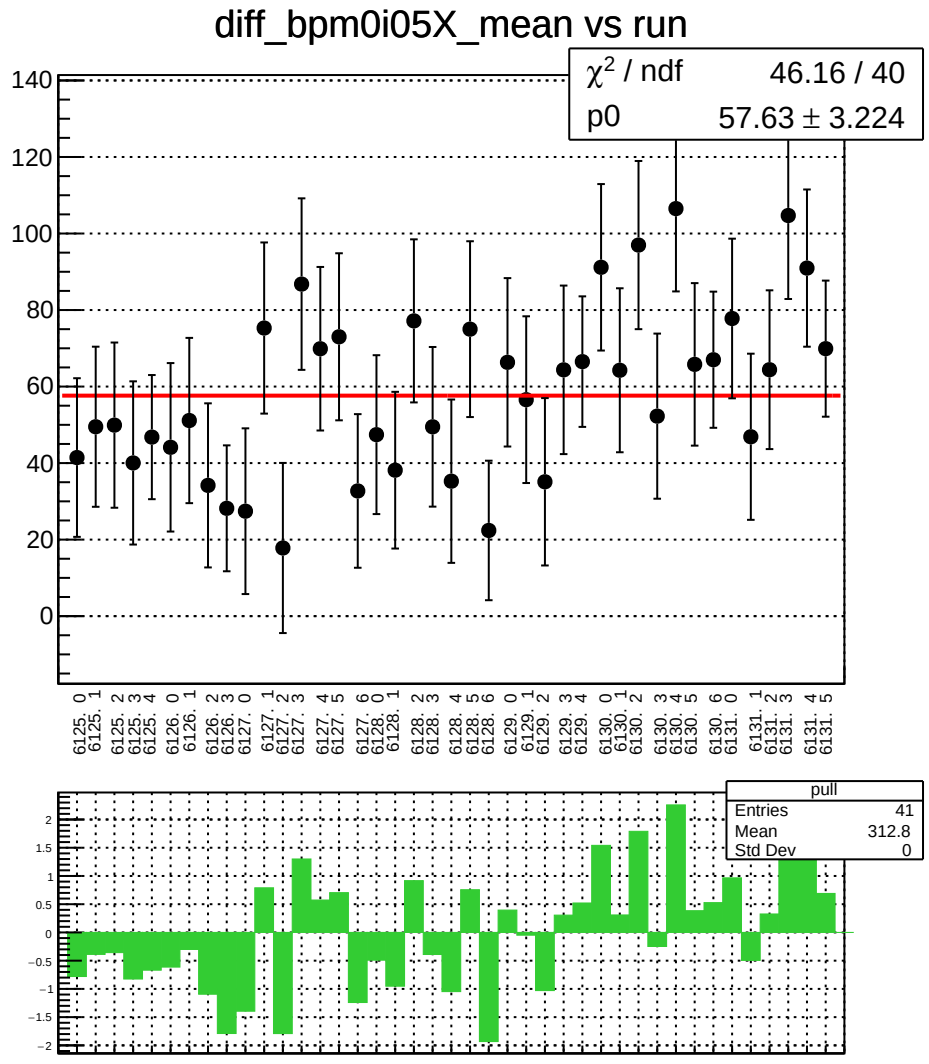

pull1D
Entries 41
Mean 0.01683
Std Dev 1.102
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

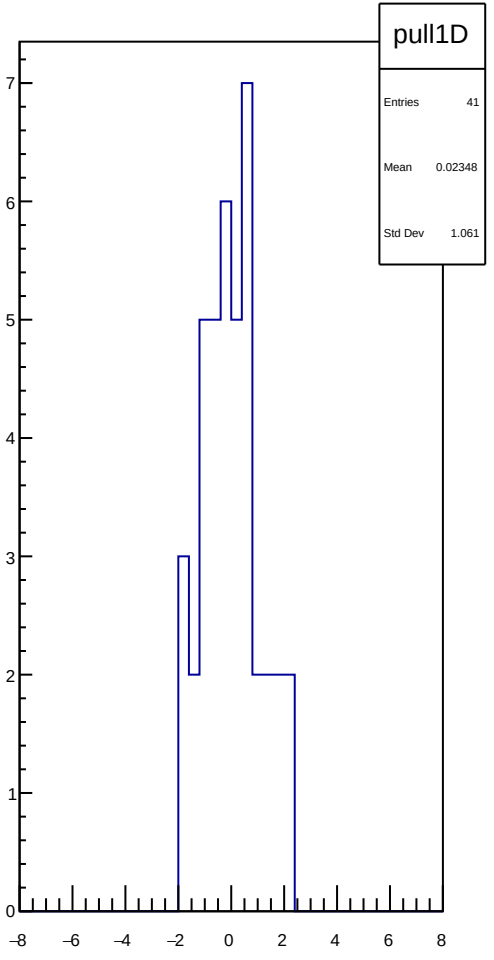

diff_bpm0i02aX_rms vs run
χ² / ndf 131.9 / 40
p0 1643 ± 1.832
1700
1680
1660
1640
1620
1600
1580
1560
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

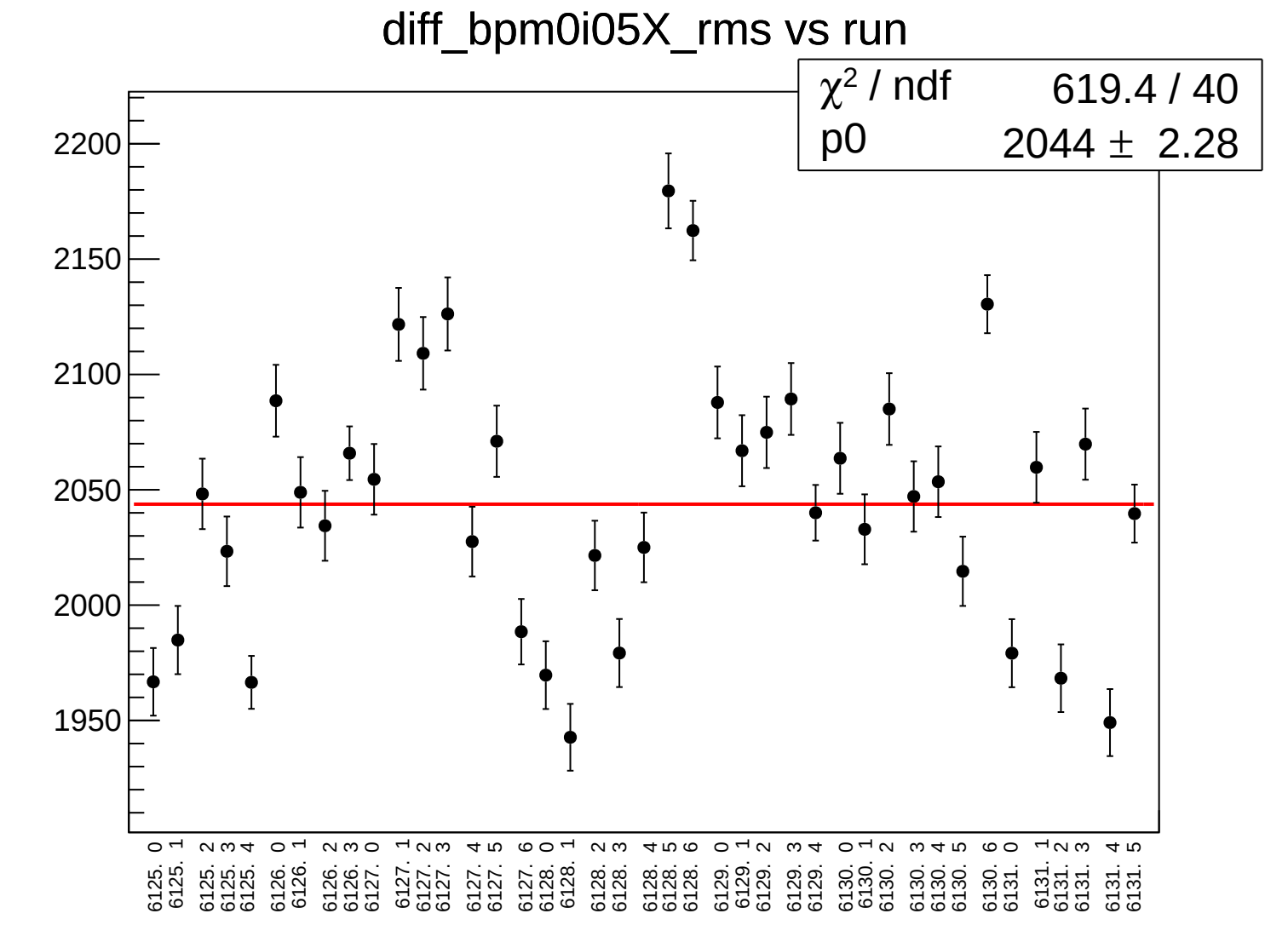

diff_bpm0i02aY_mean vs run
χ² / ndf 44.24 / 40
p0 −20.26 ± 2.894
pull
Entries 41
Mean −2114
Std Dev 0

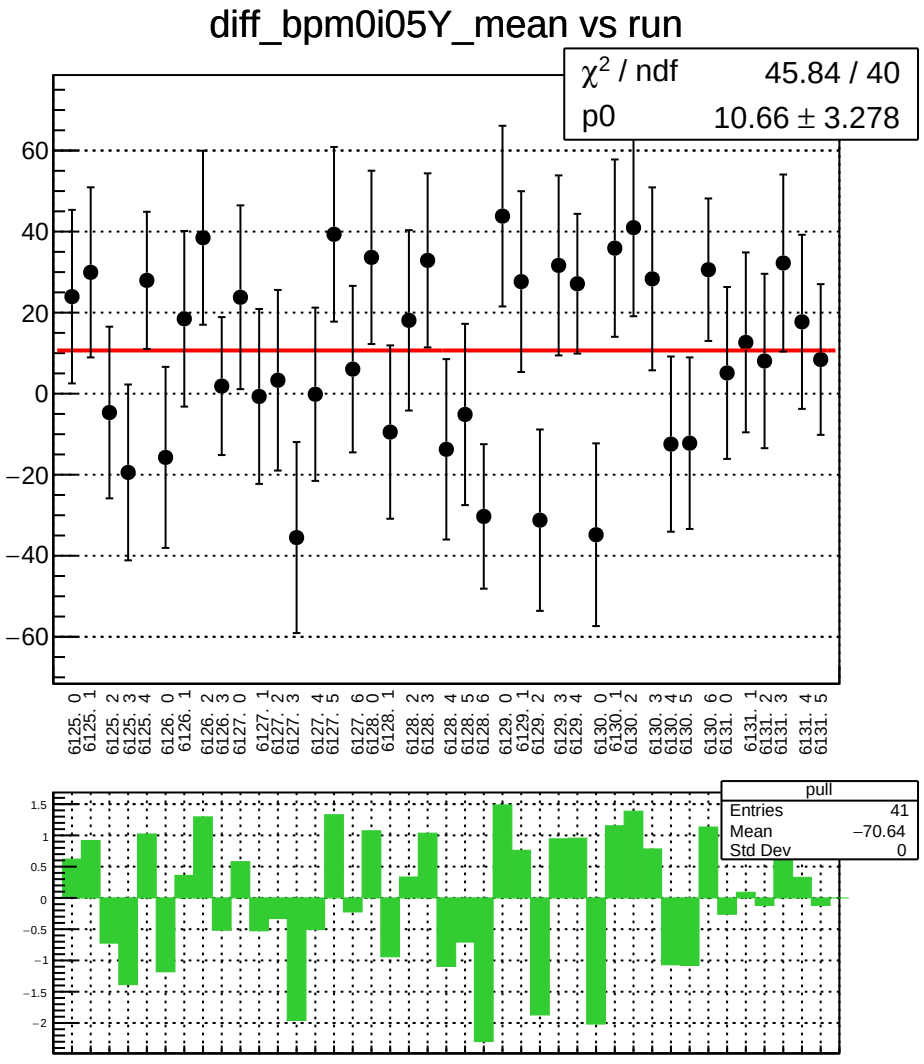

pull1D
Entries 41
Mean −0.001225
Std Dev 1.039

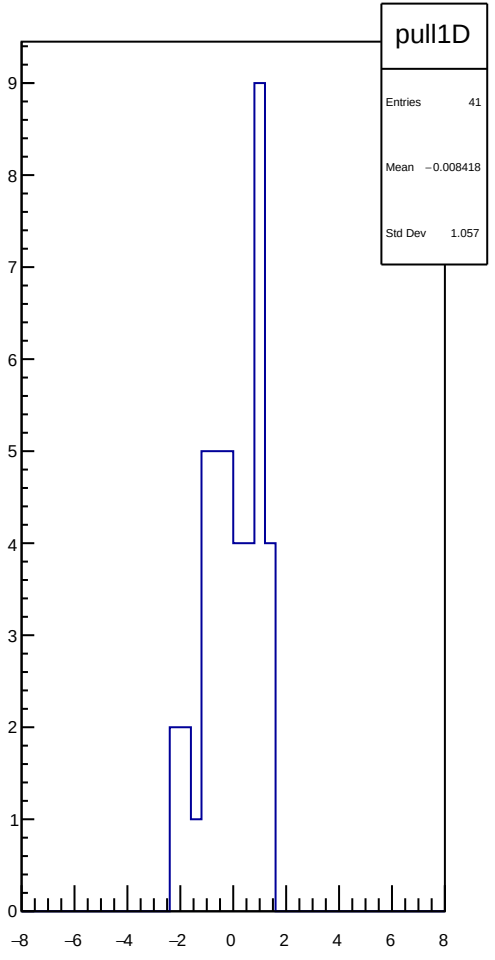

diff_bpm0i02aY_rms vs run
χ² / ndf 614.7 / 40
p0 1835 ± 2.046
1900
1850
1800
1750
1700
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

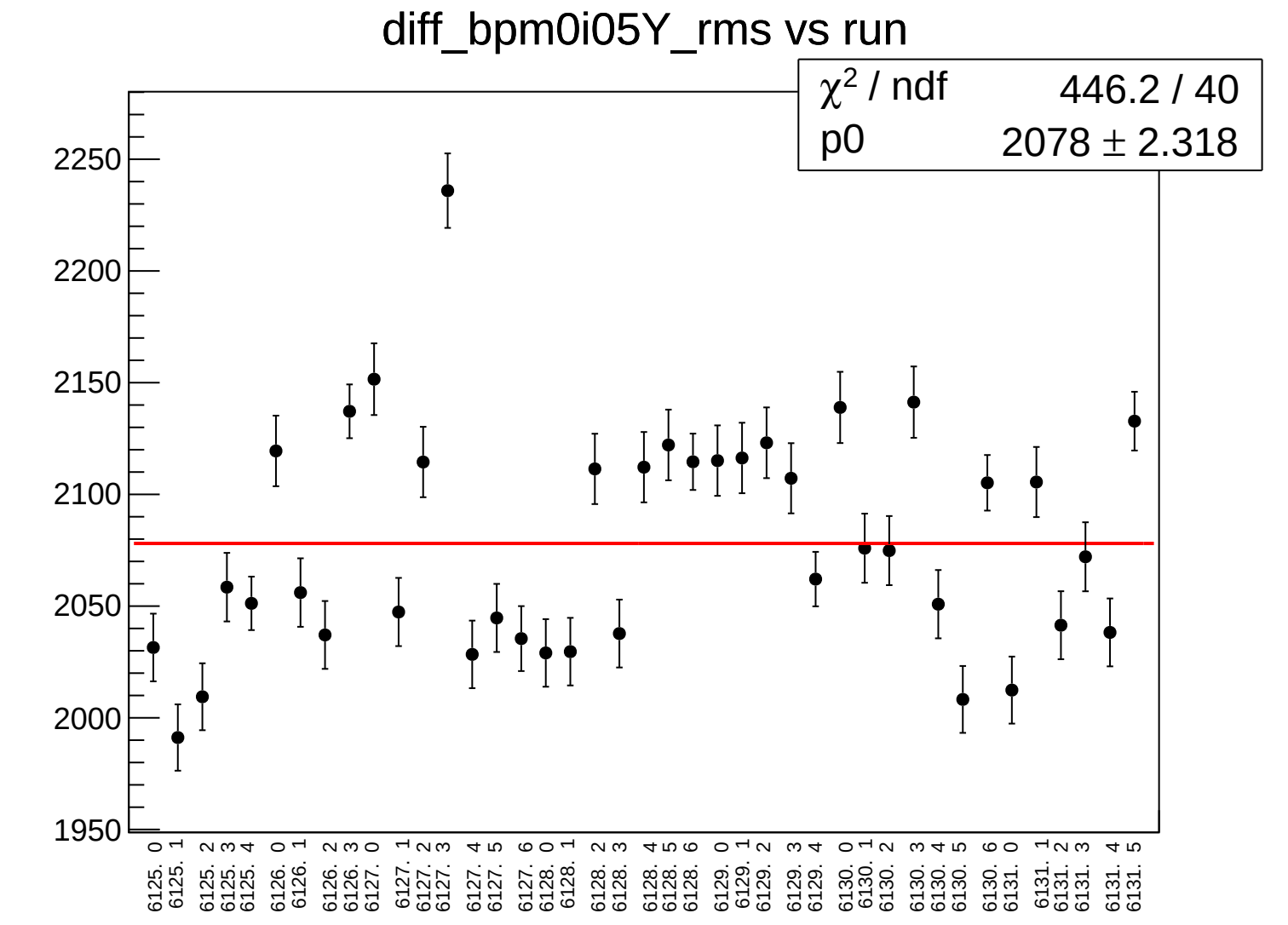

diff_bpm0i05X_mean vs run
χ² / ndf 46.16 / 40
p0 57.63 ± 3.224
pull
Entries 41
Mean 312.8
Std Dev 0

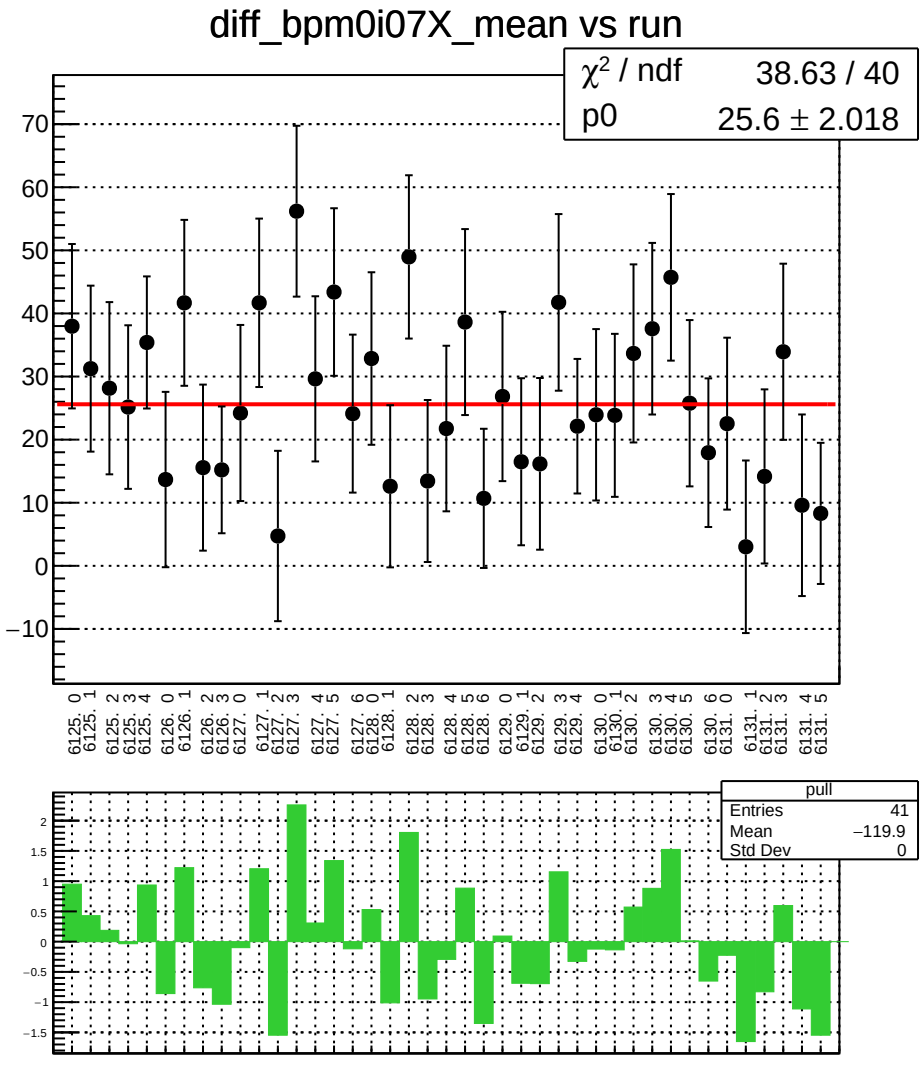

pull1D
Entries 41
Mean 0.02348
Std Dev 1.061

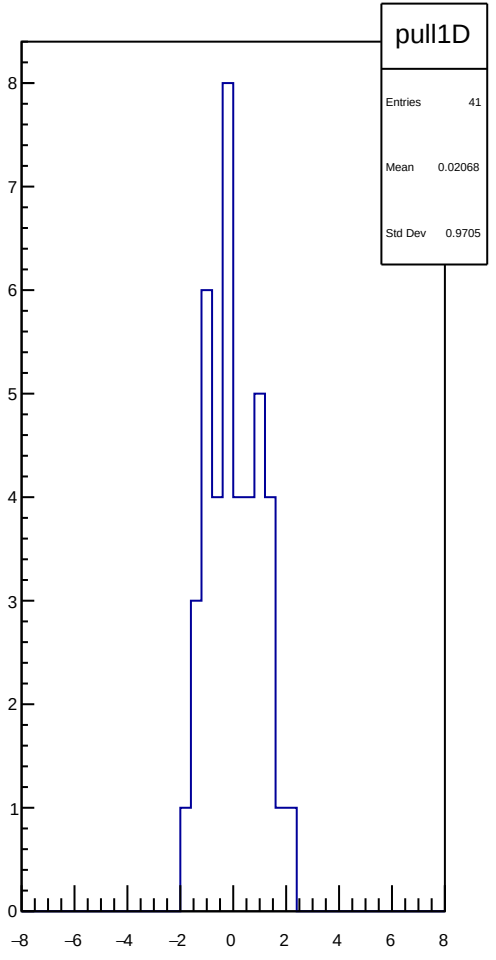

diff_bpm0i05X_rms vs run
χ² / ndf 619.4 / 40
p0 2044 ± 2.28
2200
2150
2100
2050
2000
1950
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

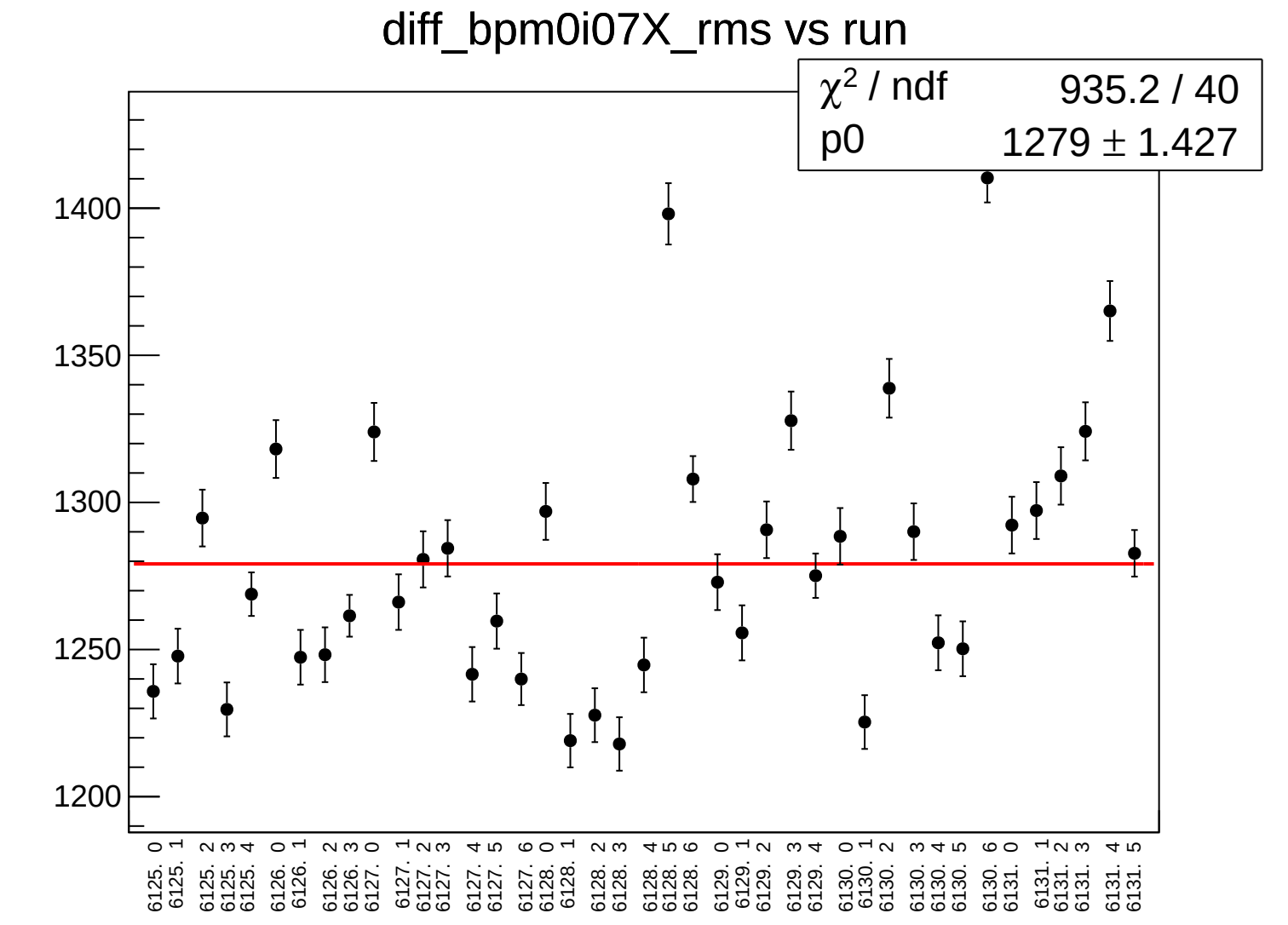

diff_bpm0i05Y_mean vs run
χ² / ndf 45.84 / 40
p0 10.66 ± 3.278
pull
Entries 41
Mean −70.64
Std Dev 0

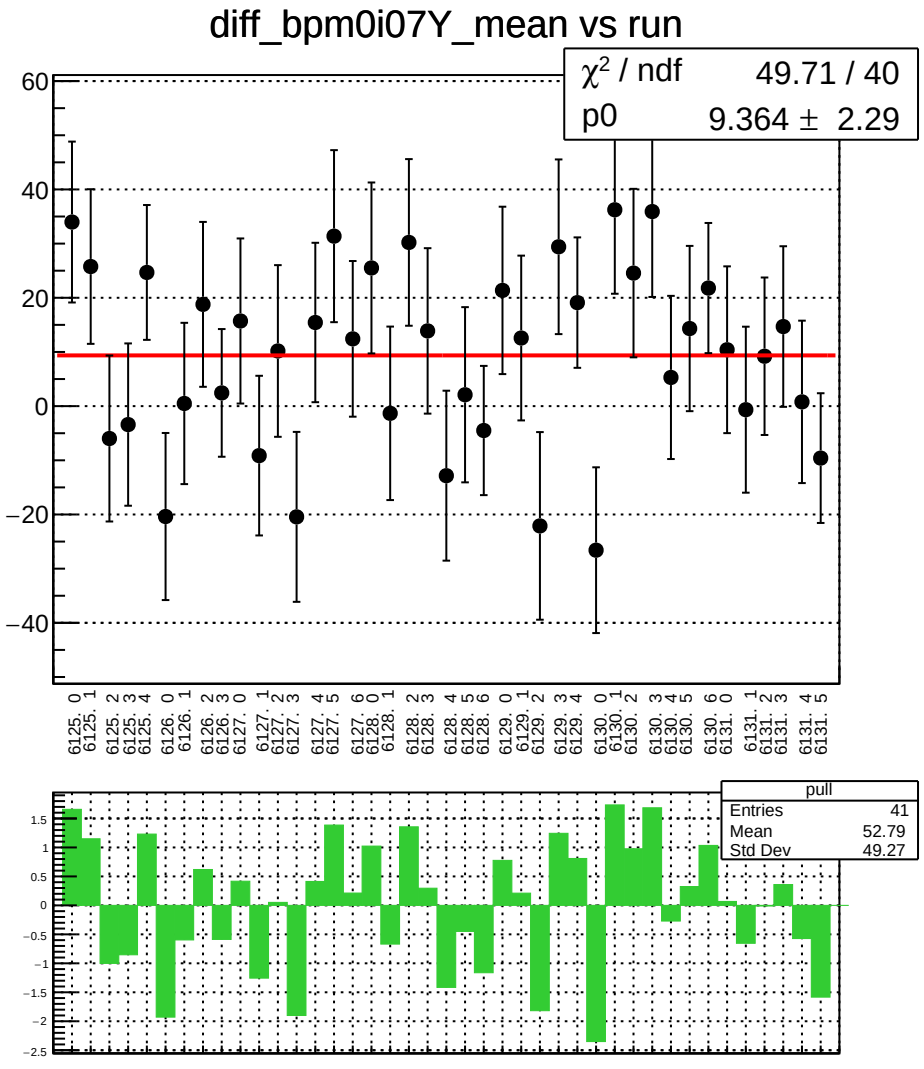

pull1D
Entries 41
Mean −0.008418
Std Dev 1.057

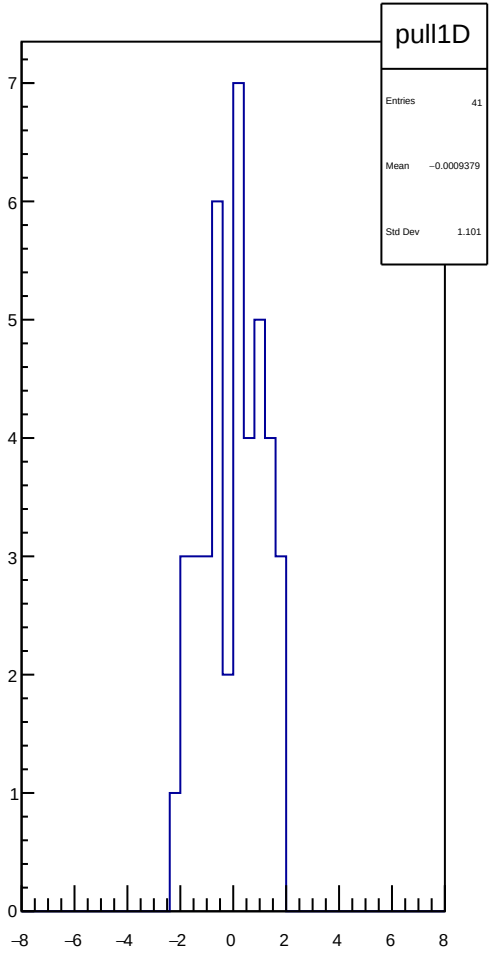

diff_bpm0i05Y_rms vs run
χ² / ndf 446.2 / 40
p0 2078 ± 2.318
2250
2200
2150
2100
2050
2000
1950
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

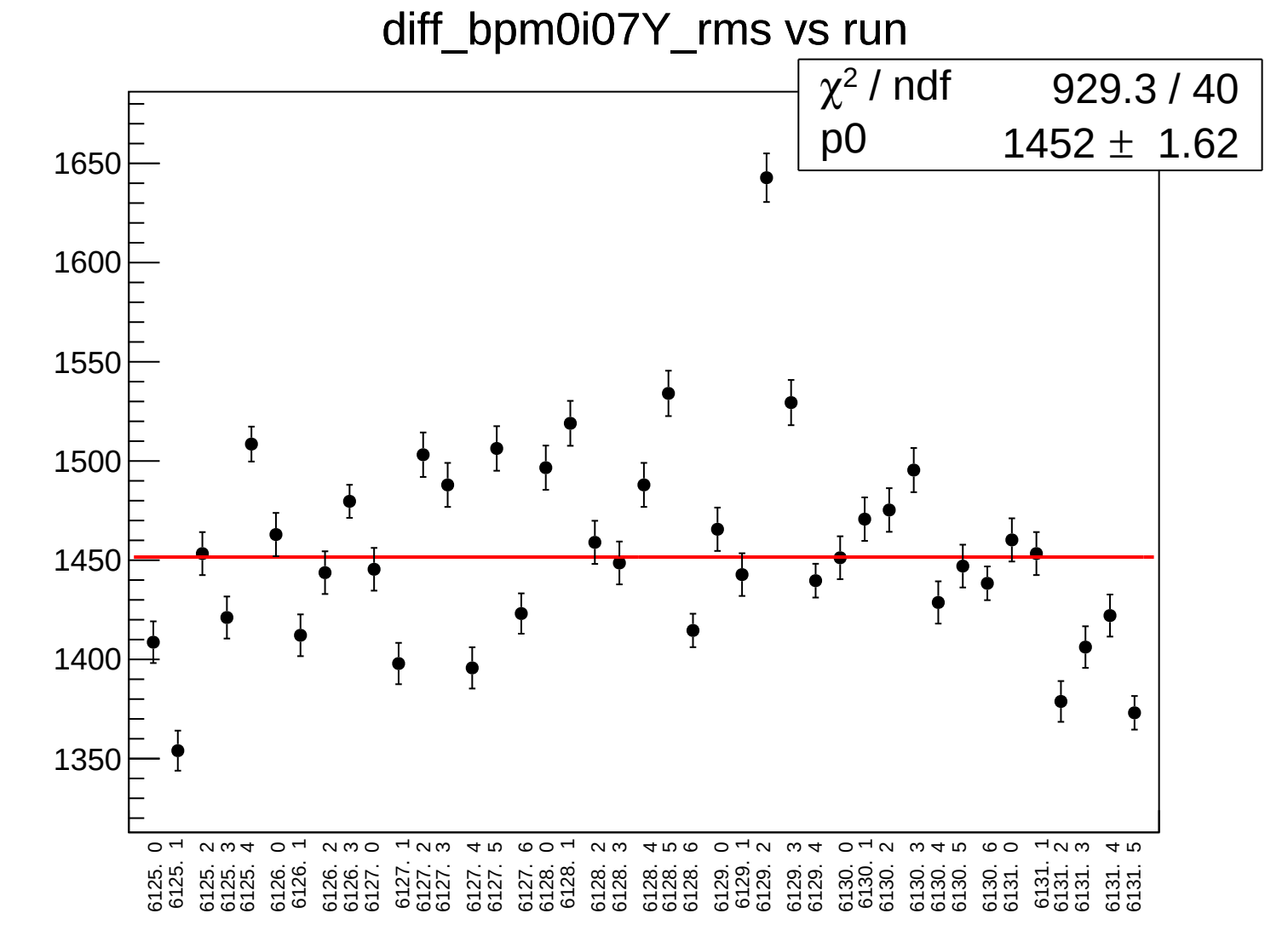

diff_bpm0i07X_mean vs run
χ² / ndf 38.63 / 40
p0 25.6 ± 2.018
pull
Entries 41
Mean −119.9
Std Dev 0

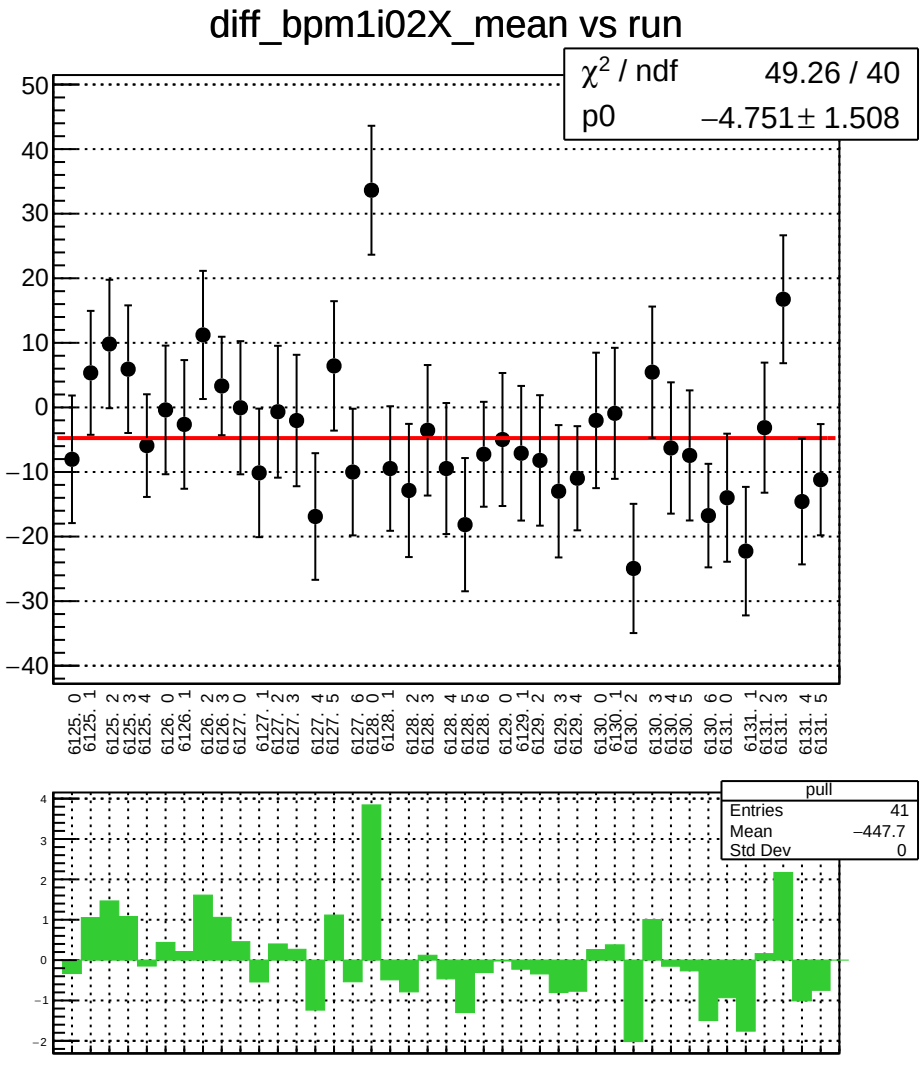

pull1D
Entries 41
Mean 0.02068
Std Dev 0.9705

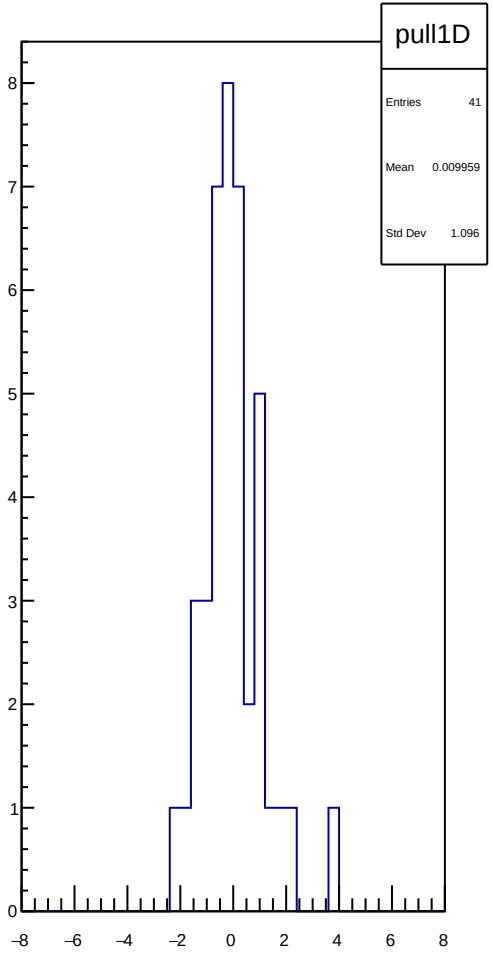

diff_bpm0i07X_rms vs run
χ² / ndf 935.2 / 40
p0 1279 ± 1.427
1400
1350
1300
1250
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

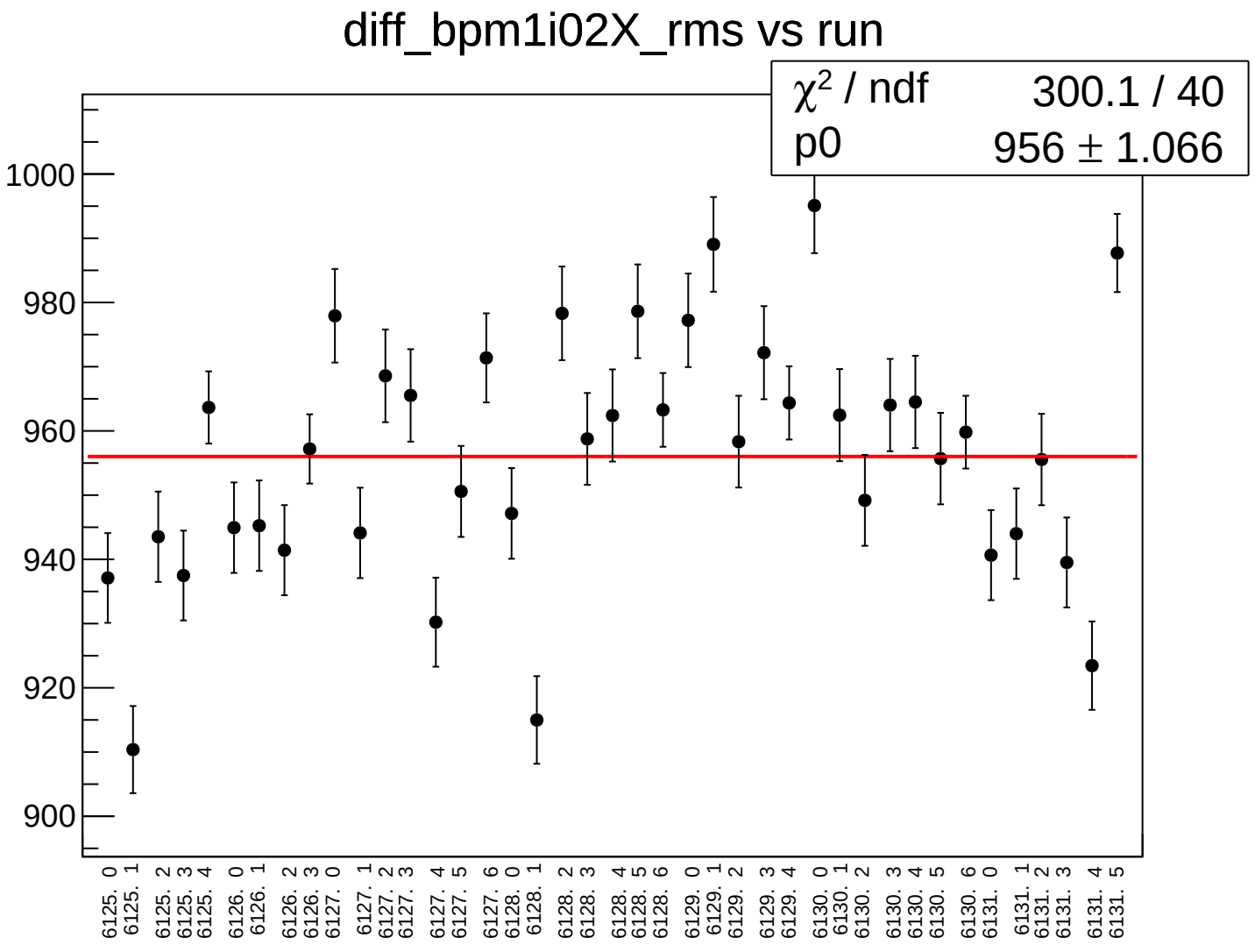

diff_bpm0i07Y_mean vs run
χ² / ndf 49.71 / 40
p0 9.364 ± 2.29
pull
Entries 41
Mean 52.79
Std Dev 49.27

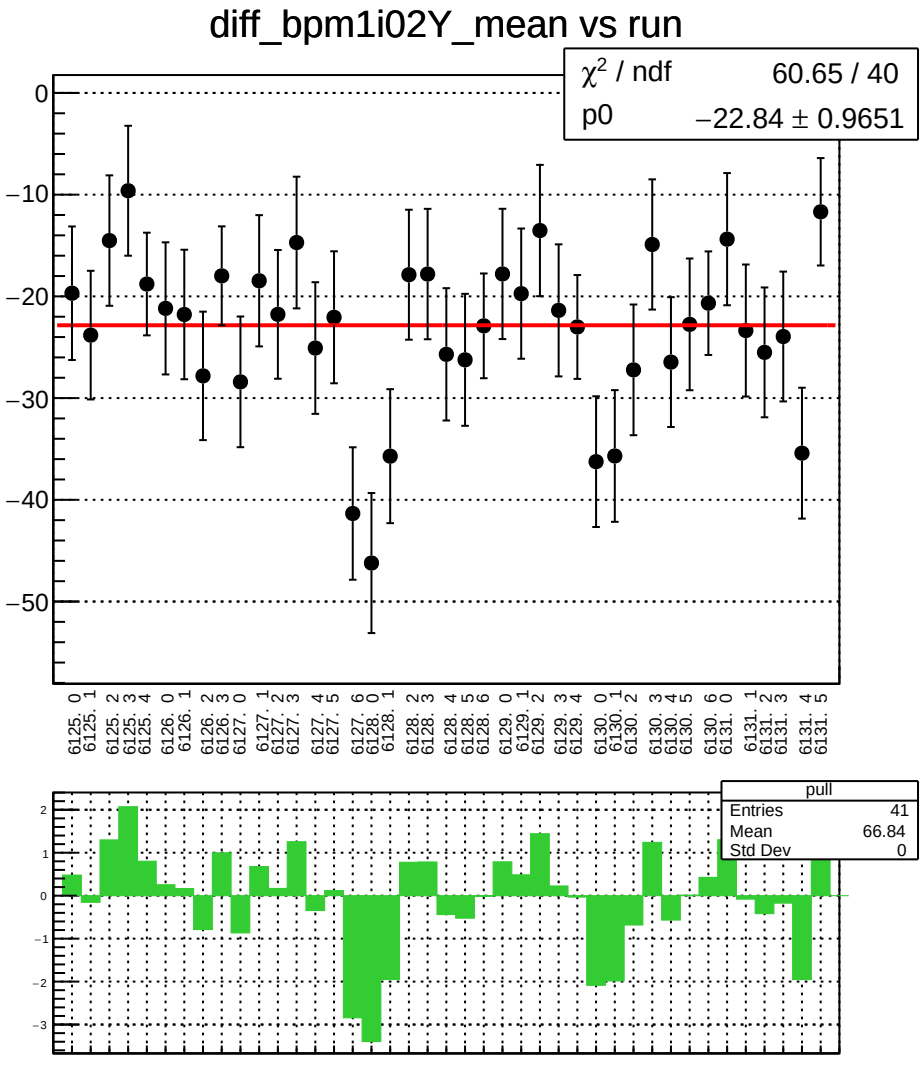

pull1D
Entries 41
Mean −0.0009379
Std Dev 1.101

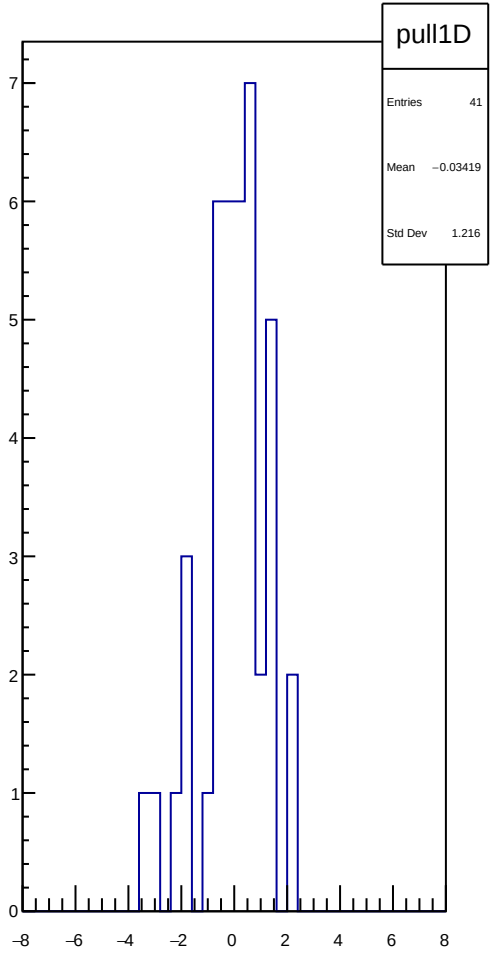

diff_bpm0i07Y_rms vs run
χ² / ndf 929.3 / 40
p0 1452 ± 1.62
1650
1600
1550
1500
1450
1400
1350
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

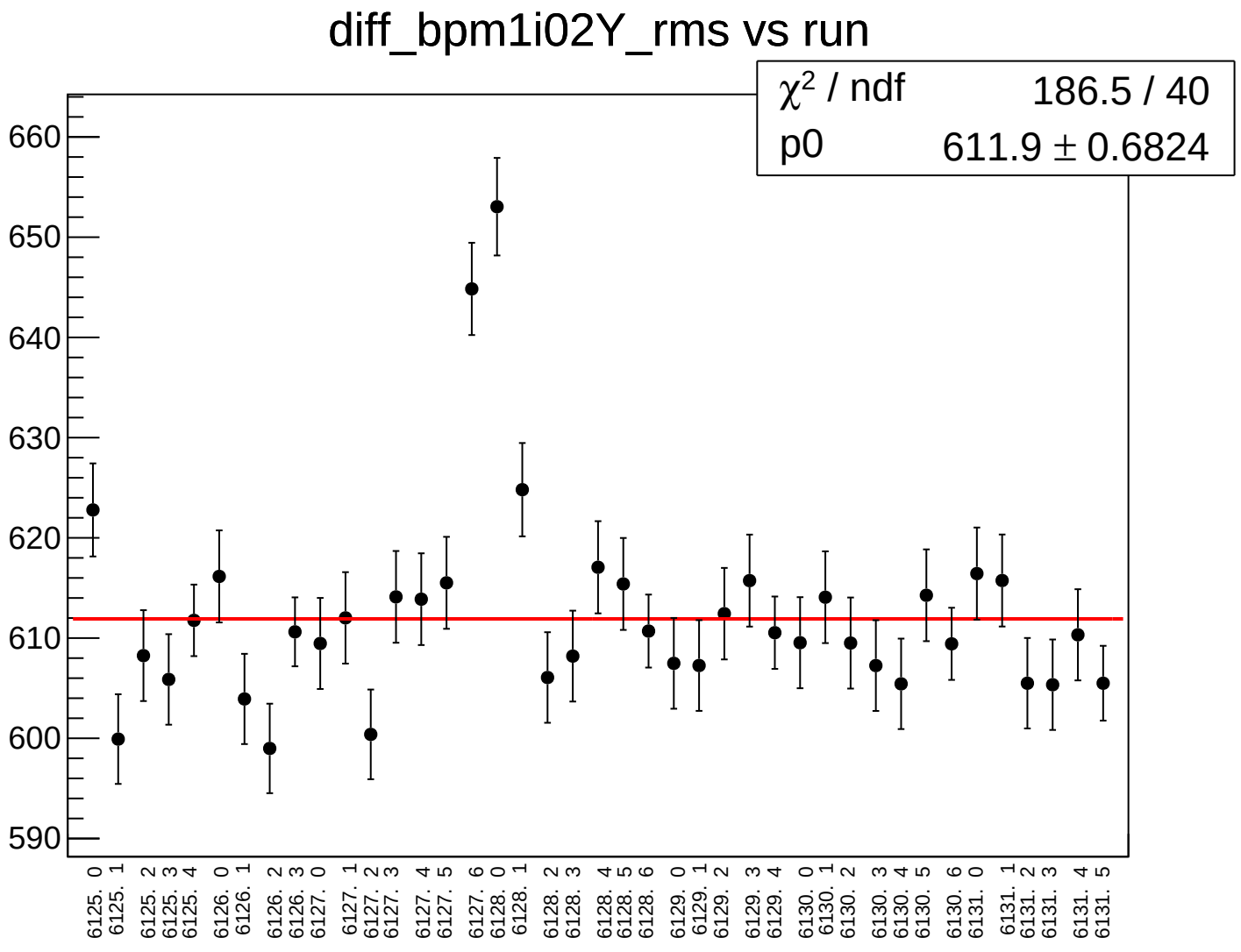

diff_bpm1i02X_mean vs run
χ² / ndf 49.26 / 40
p0 −4.751± 1.508
pull
Entries 41
Mean −447.7
Std Dev 0

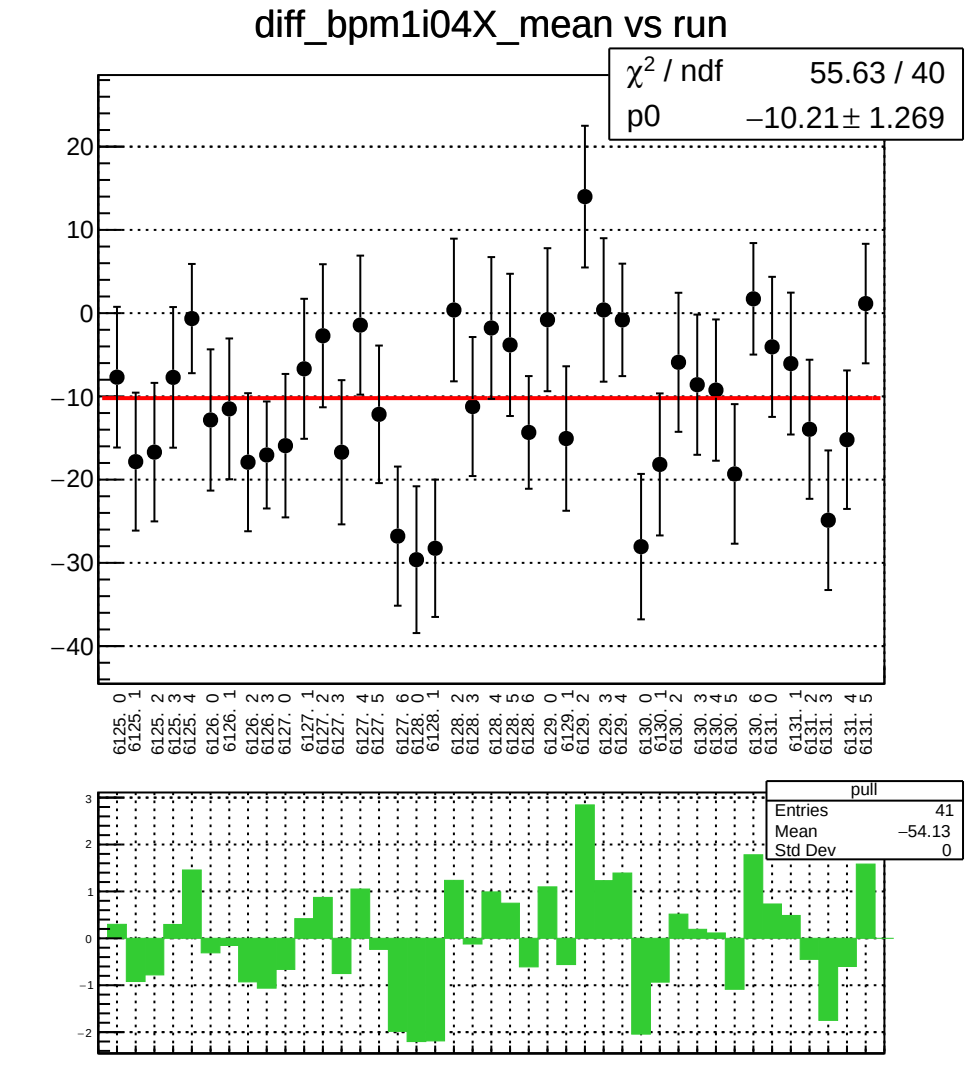

pull1D
Entries 41
Mean 0.009959
Std Dev 1.096

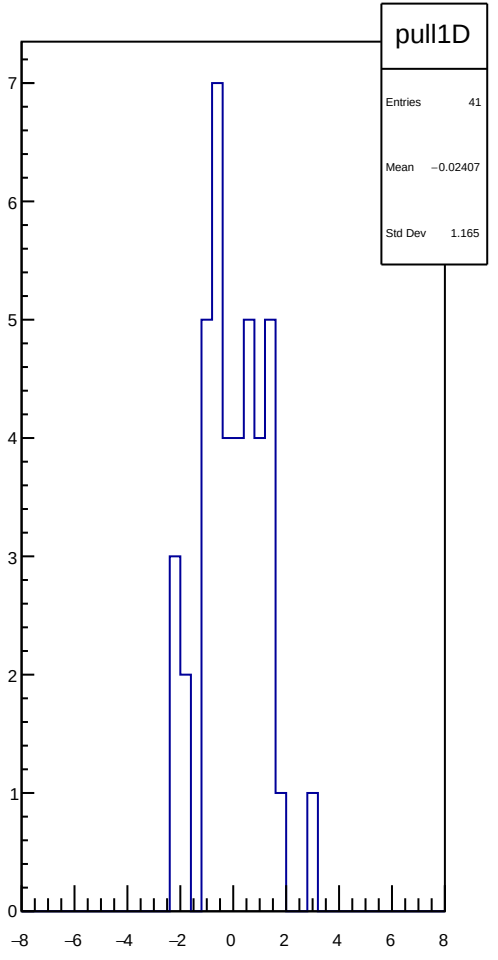

diff_bpm1i02X_rms vs run
χ² / ndf 300.1 / 40
p0 956 ± 1.066
1000
980
960
940
920
900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

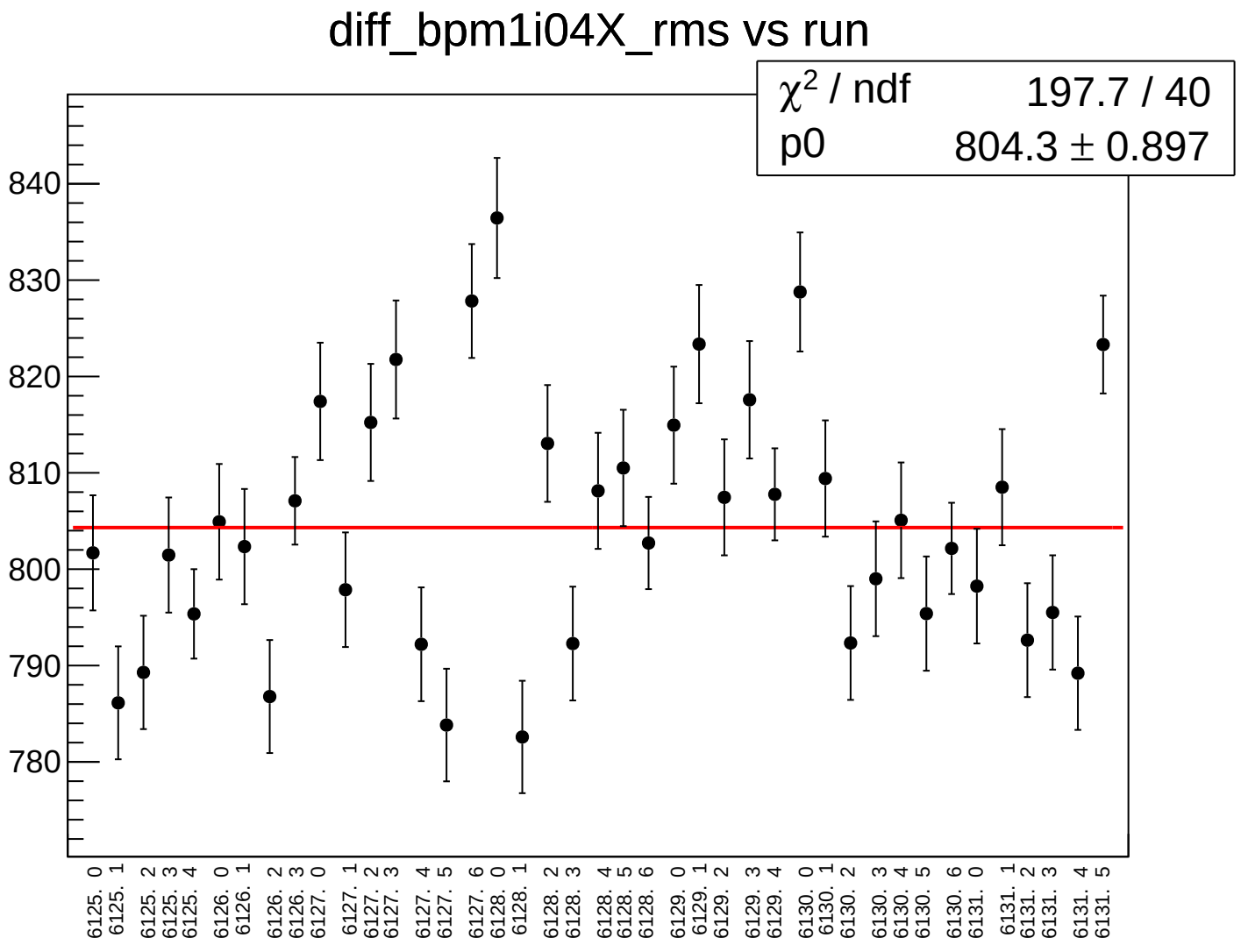

diff_bpm1i02Y_mean vs run
χ² / ndf 60.65 / 40
p0 −22.84 ± 0.9651
0
−10
−20
−30
−40
−50
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 66.84
Std Dev 0
2
1
0
−1
−2
−3

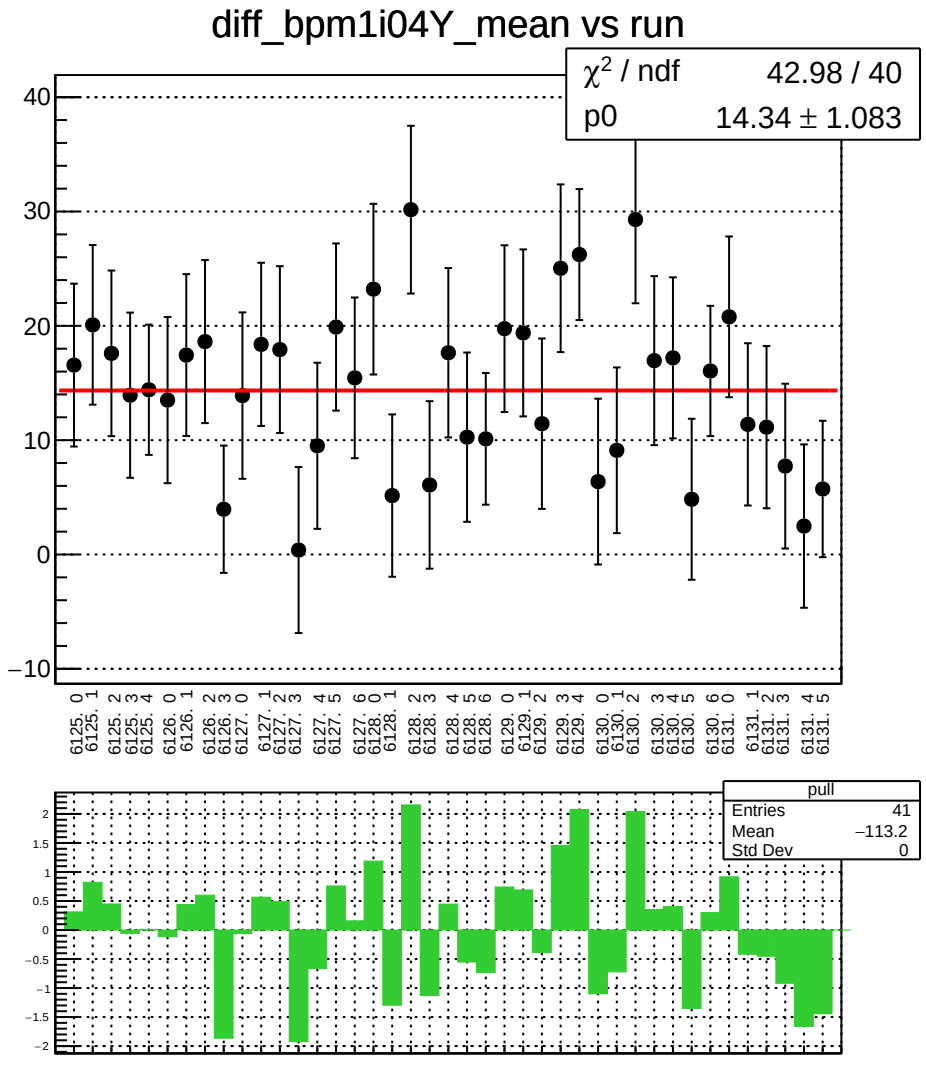

pull1D
Entries 41
Mean −0.03419
Std Dev 1.216
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

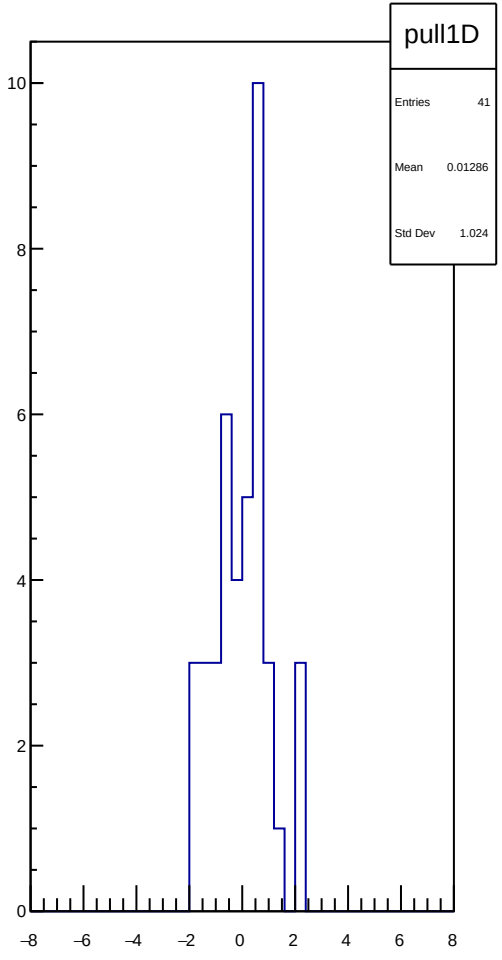

diff_bpm1i02Y_rms vs run
χ² / ndf 186.5 / 40
p0 611.9 ± 0.6824
660
650
640
630
620
610
600
590
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

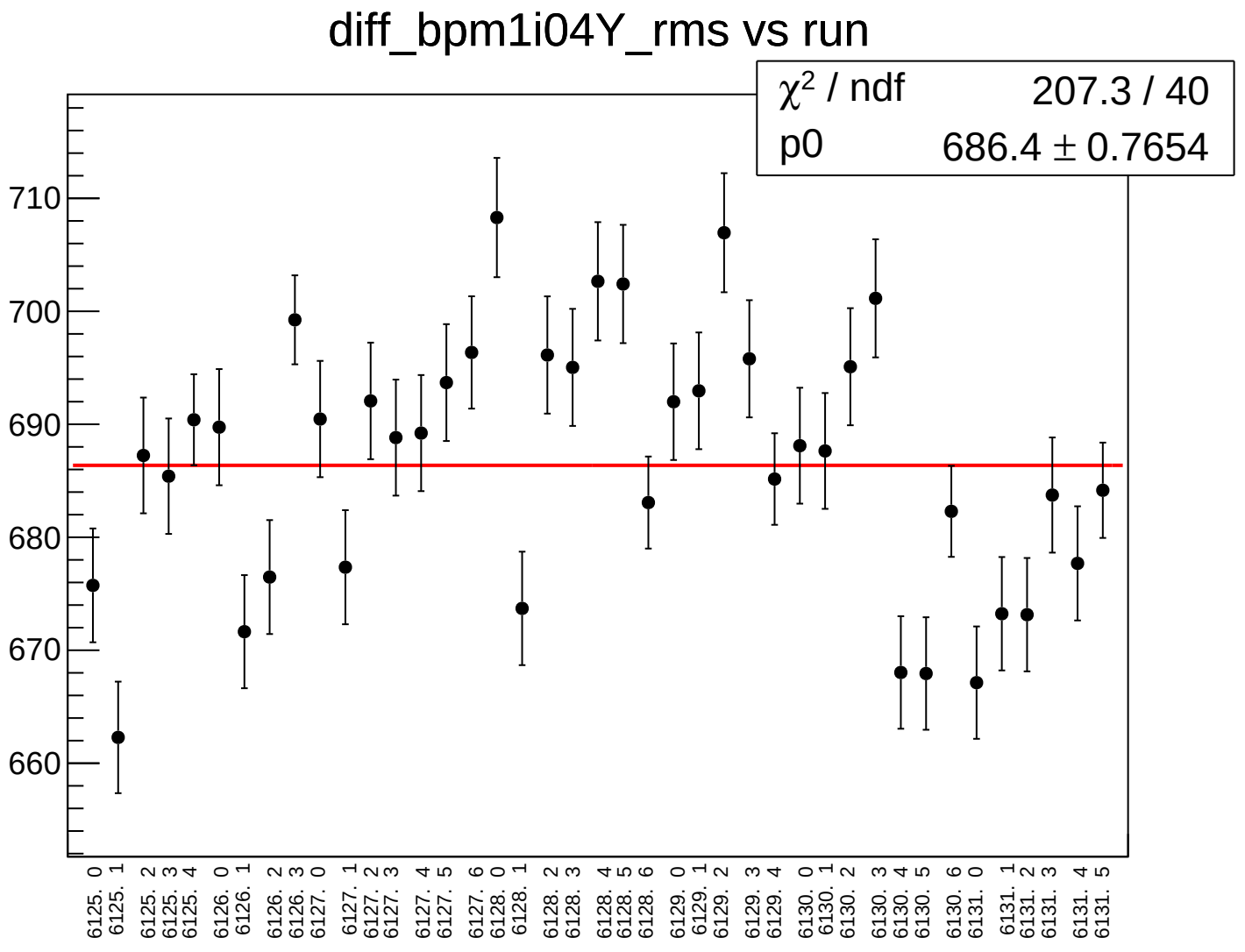

diff_bpm1i04X_mean vs run
χ² / ndf 55.63 / 40
p0 −10.21± 1.269
20
10
0
−10
−20
−30
−40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −54.13
Std Dev 0
3
2
1
0
−1
−2

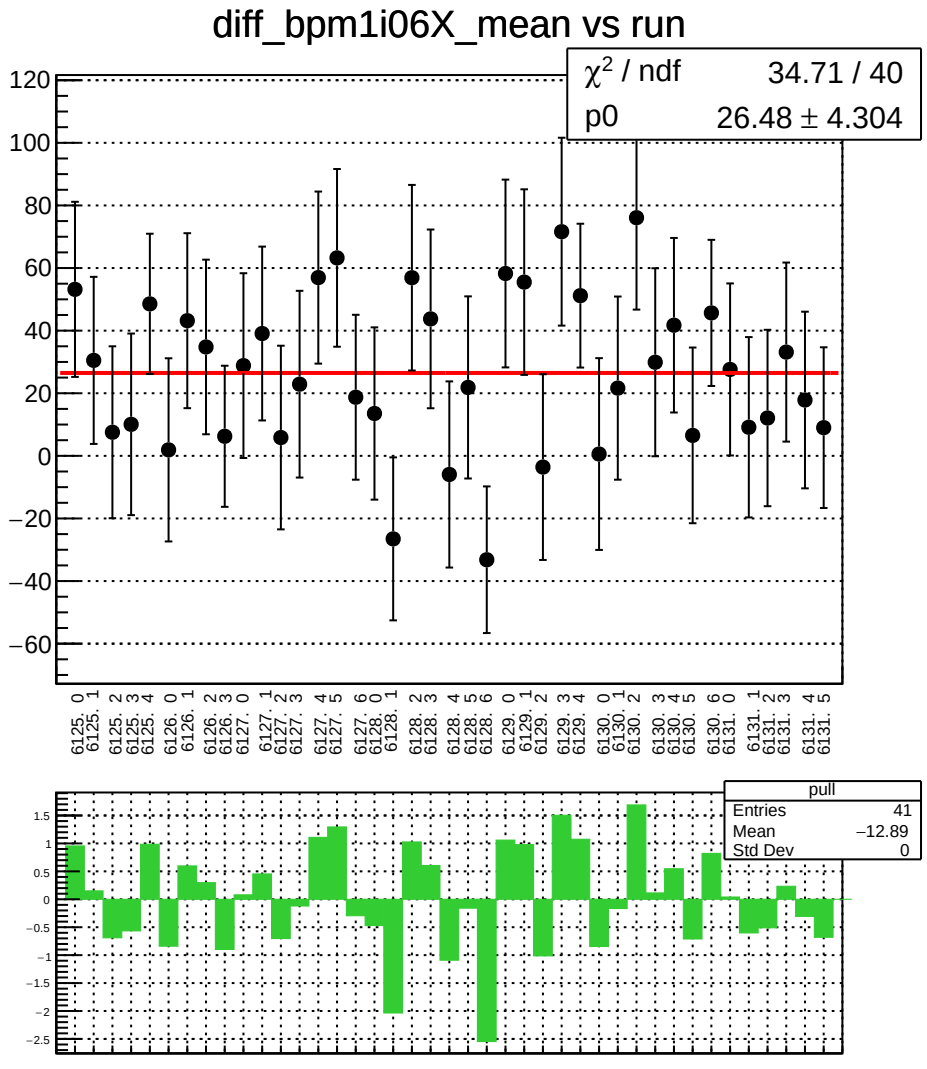

pull1D
Entries 41
Mean −0.02407
Std Dev 1.165
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

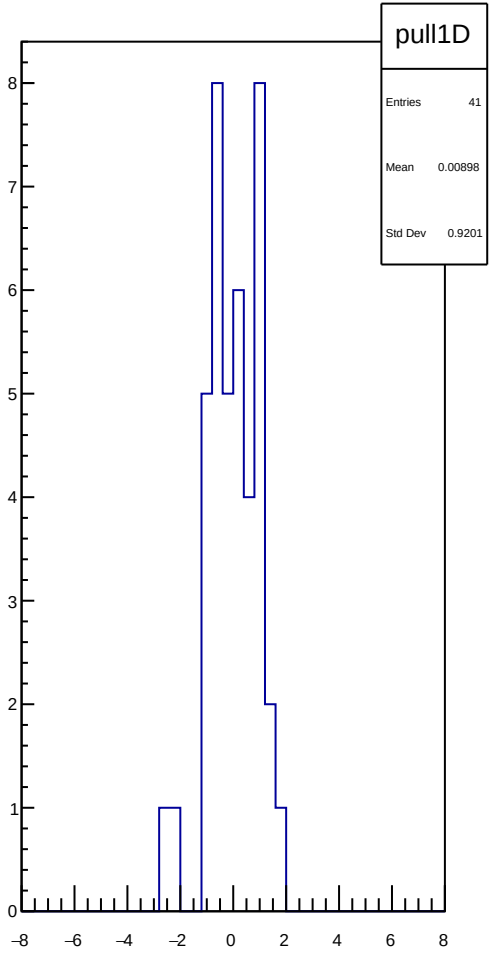

diff_bpm1i04X_rms vs run
χ² / ndf 197.7 / 40
p0 804.3 ± 0.897
840
830
820
810
800
790
780
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

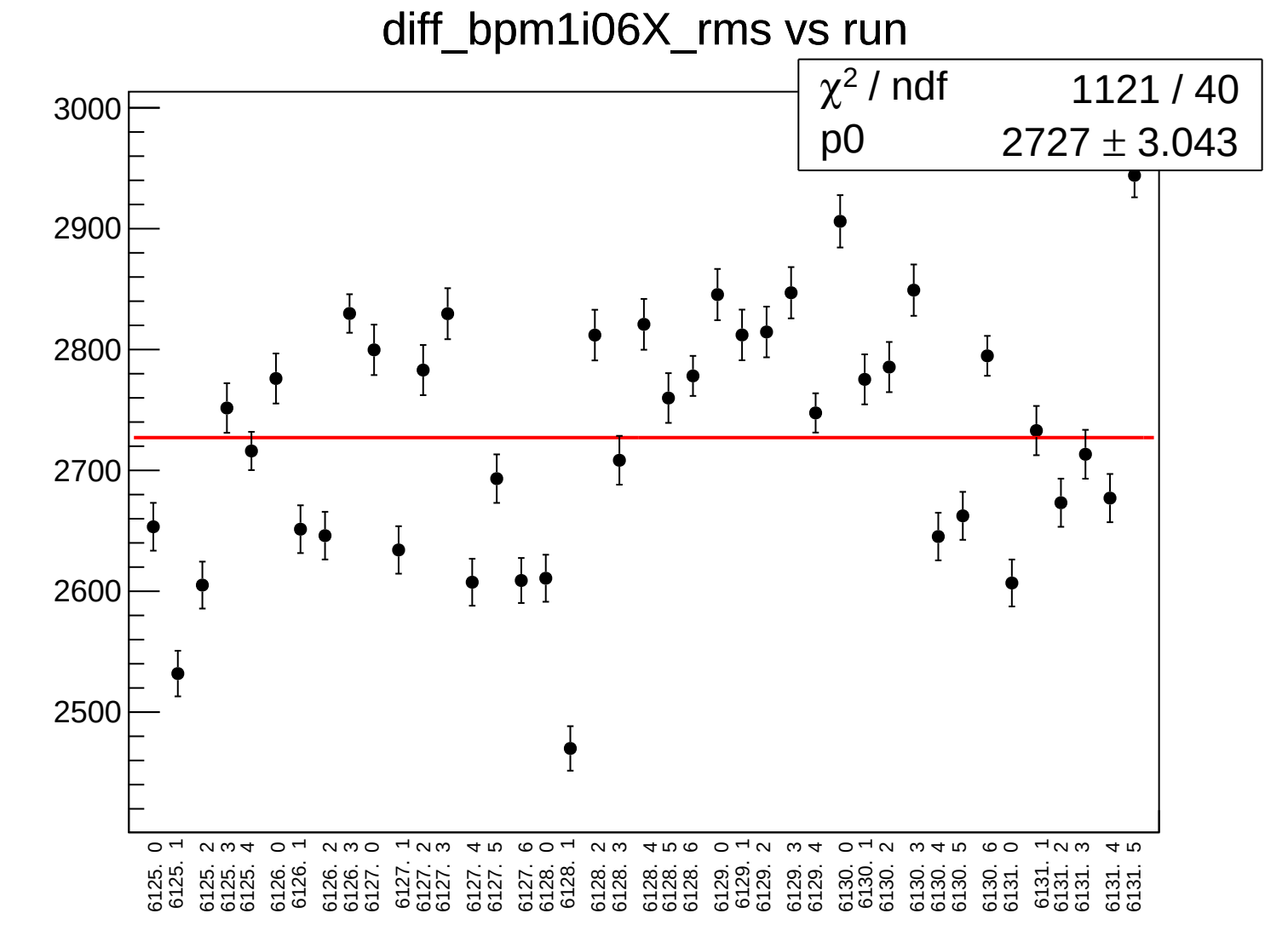

diff_bpm1i04Y_mean vs run
χ^2 / ndf 42.98 / 40
p0 14.34 ± 1.083
40
30
20
10
0
−10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −113.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

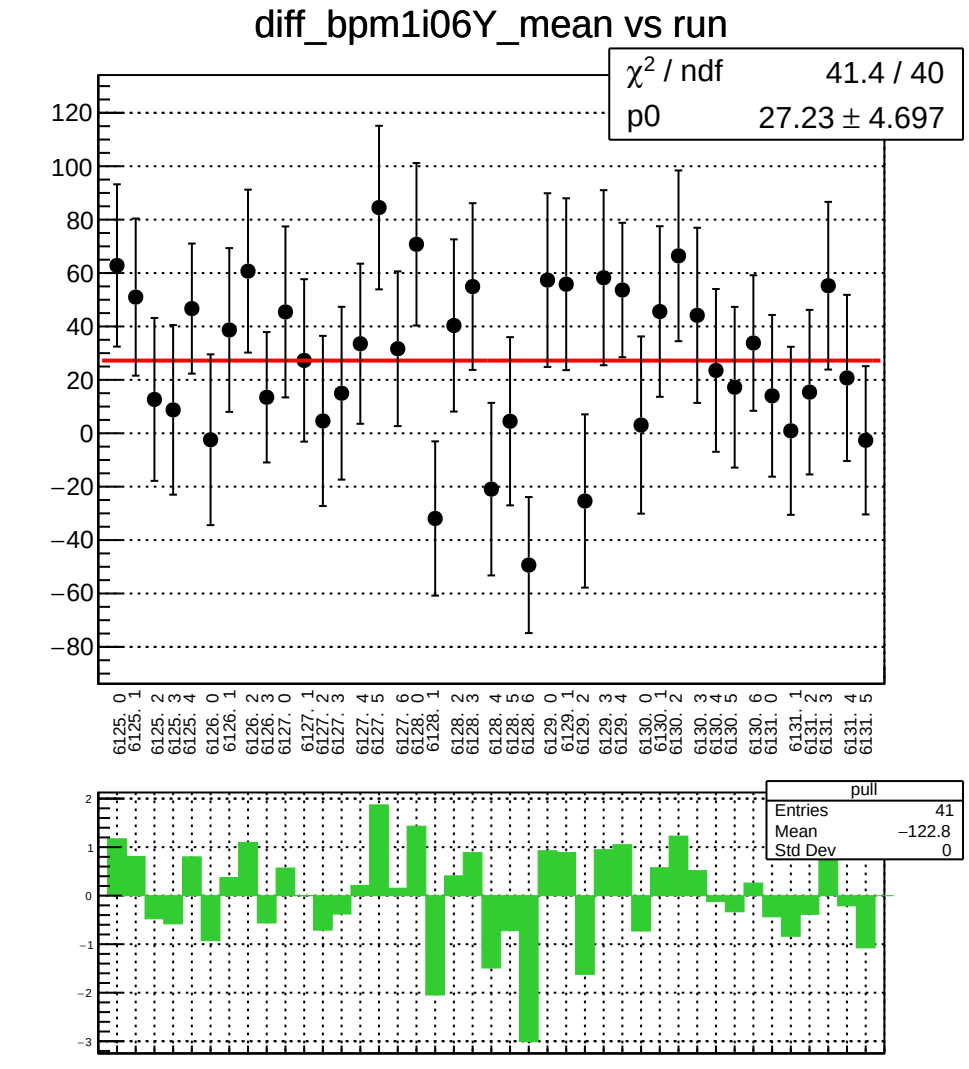

pull1D
Entries 41
Mean 0.01286
Std Dev 1.024
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

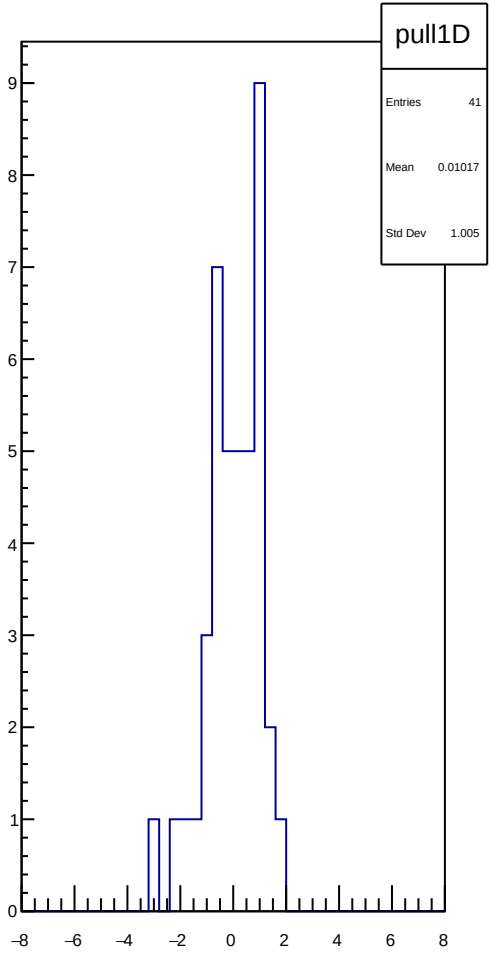

diff_bpm1i04Y_rms vs run
χ² / ndf 207.3 / 40
p0 686.4 ± 0.7654
710
700
690
680
670
660
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

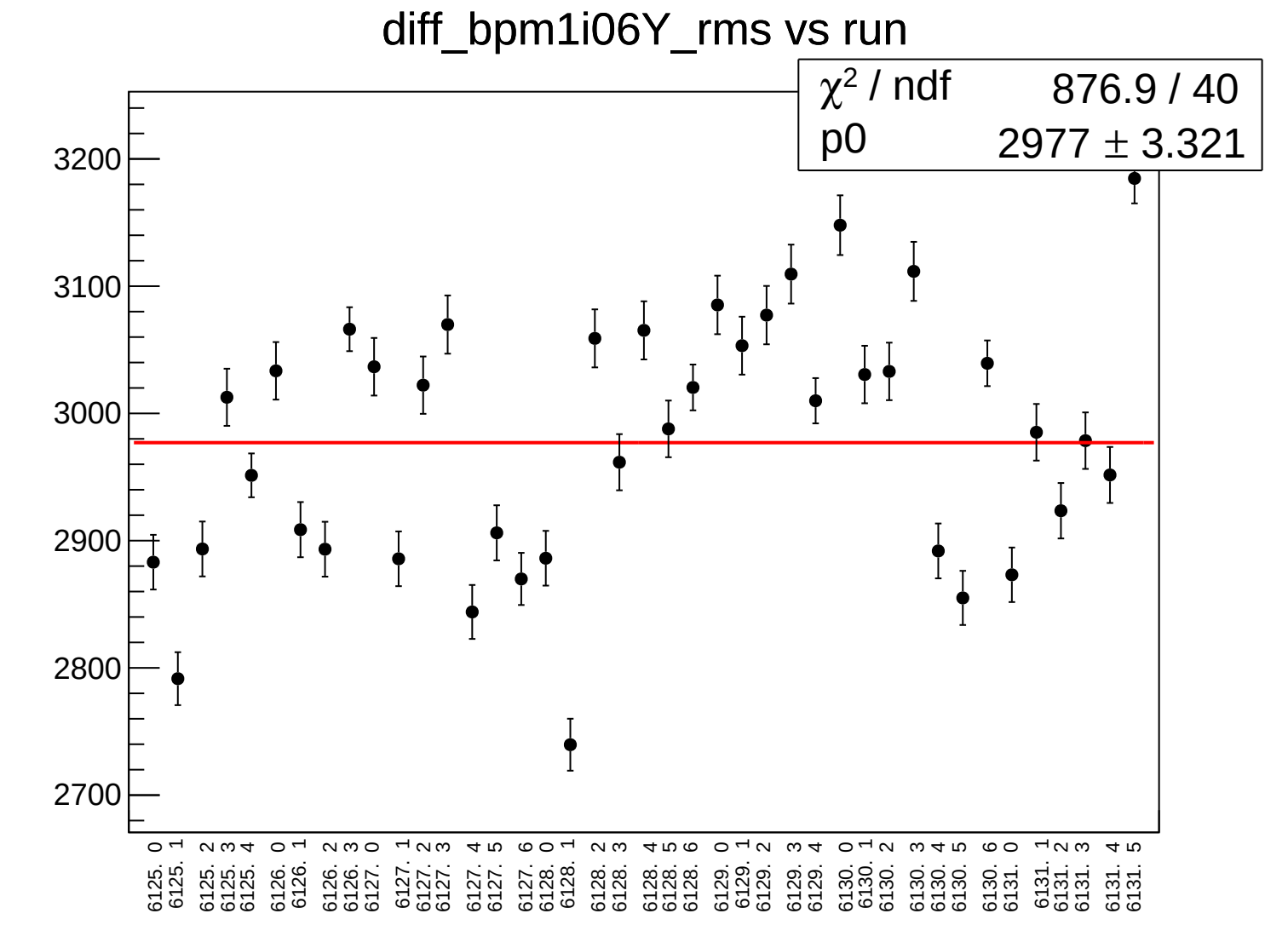

diff_bpm1i06X_mean vs run
χ² / ndf 34.71 / 40
p0 26.48 ± 4.304
pull
Entries 41
Mean −12.89
Std Dev 0

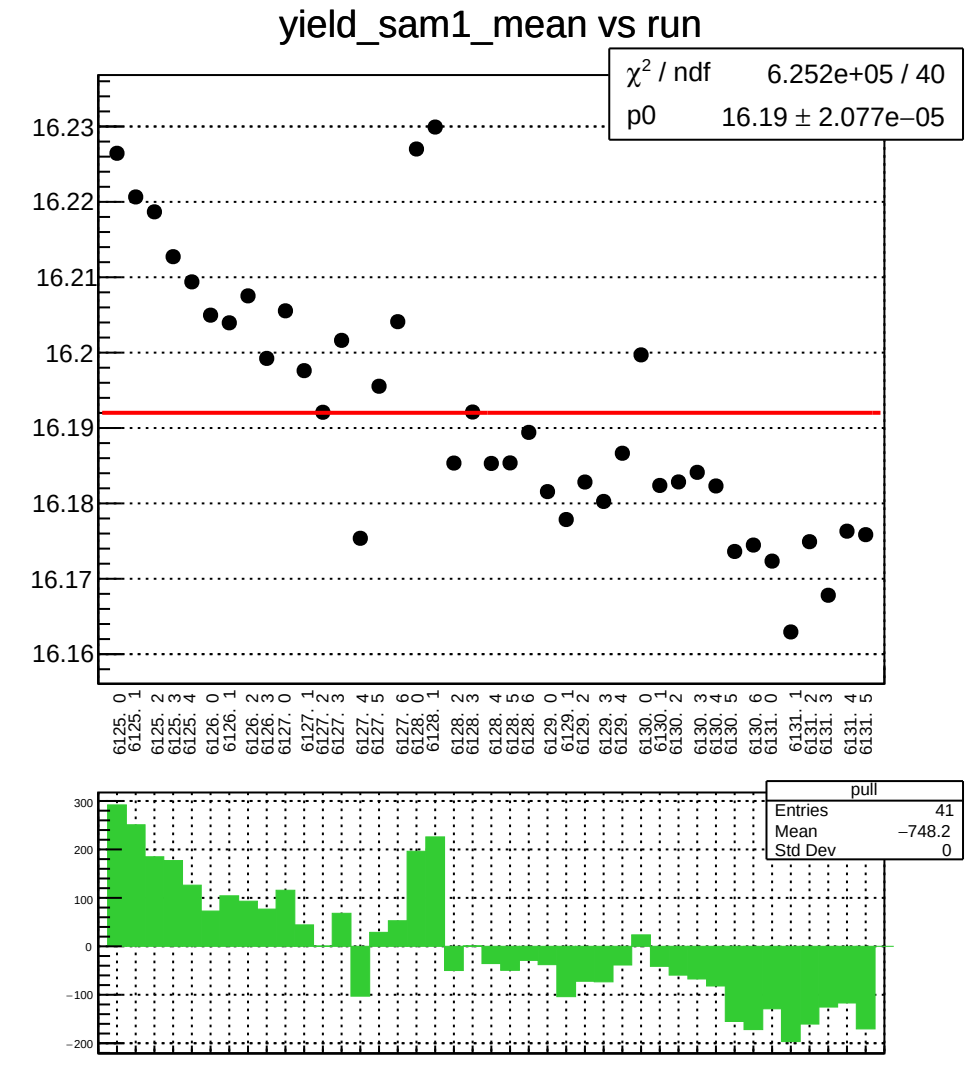

pull1D
Entries 41
Mean 0.00898
Std Dev 0.9201

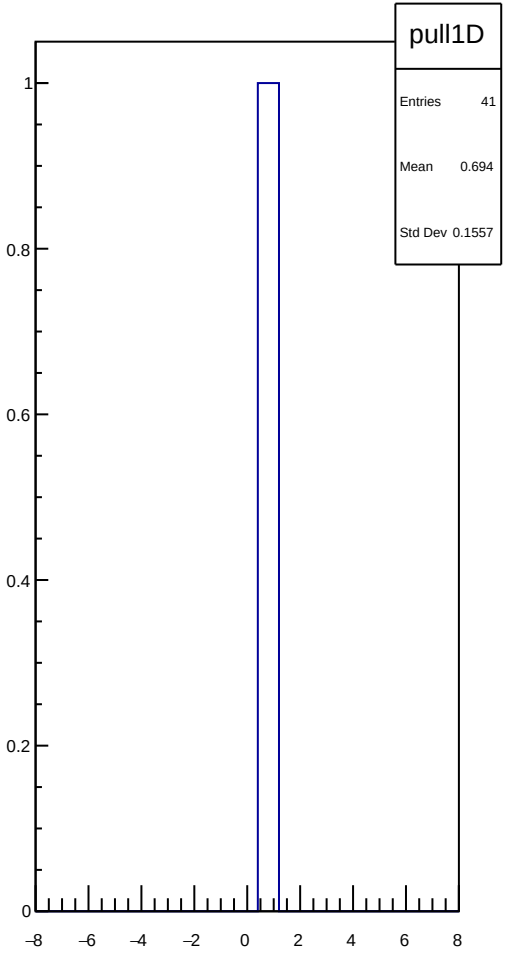

diff_bpm1i06X_rms vs run
χ² / ndf 1121 / 40
p0 2727 ± 3.043
3000
2900
2800
2700
2600
2500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

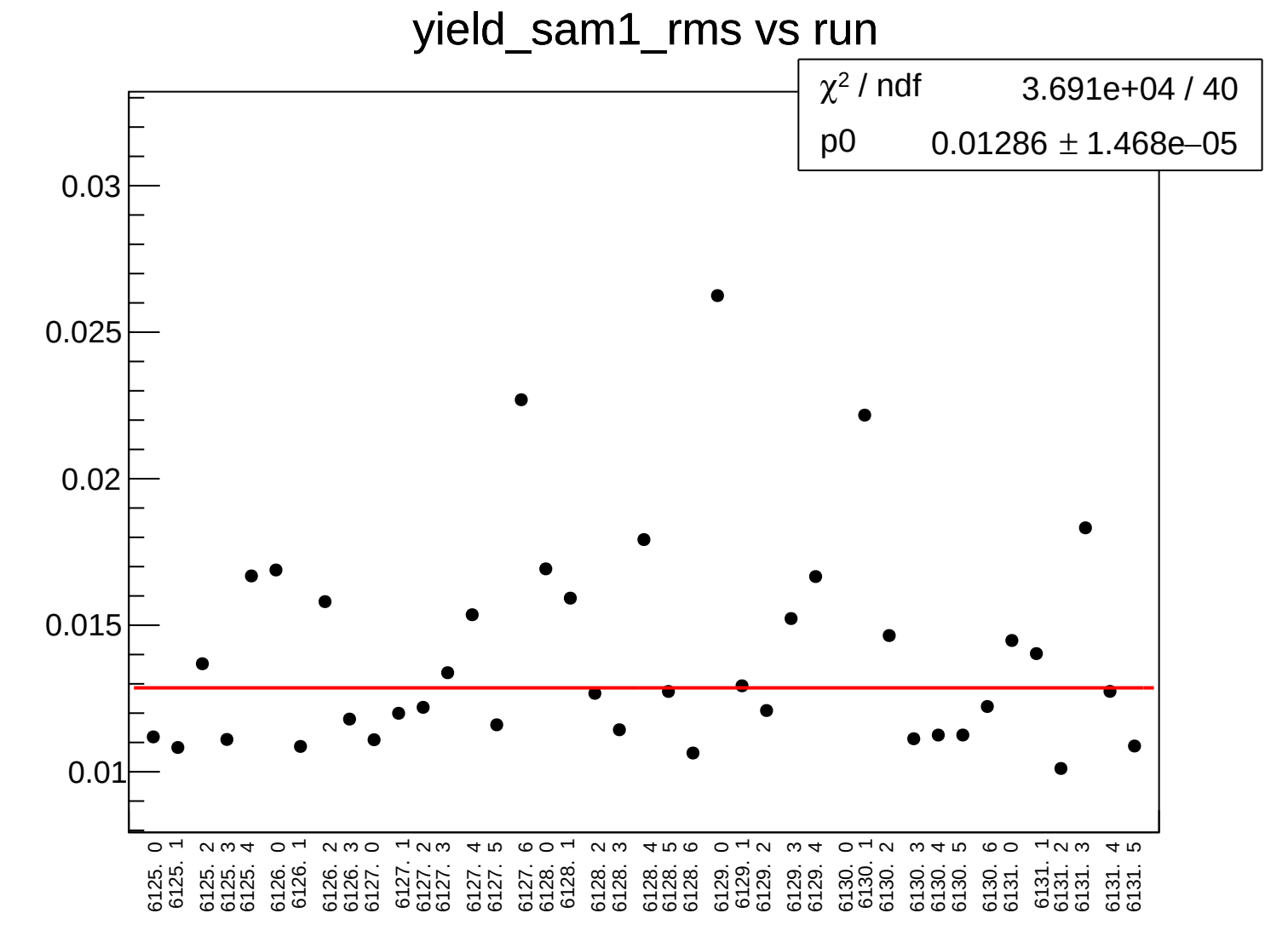

diff_bpm1i06Y_mean vs run
χ^2 / ndf 41.4 / 40
p0 27.23 ± 4.697
pull
Entries 41
Mean −122.8
Std Dev 0

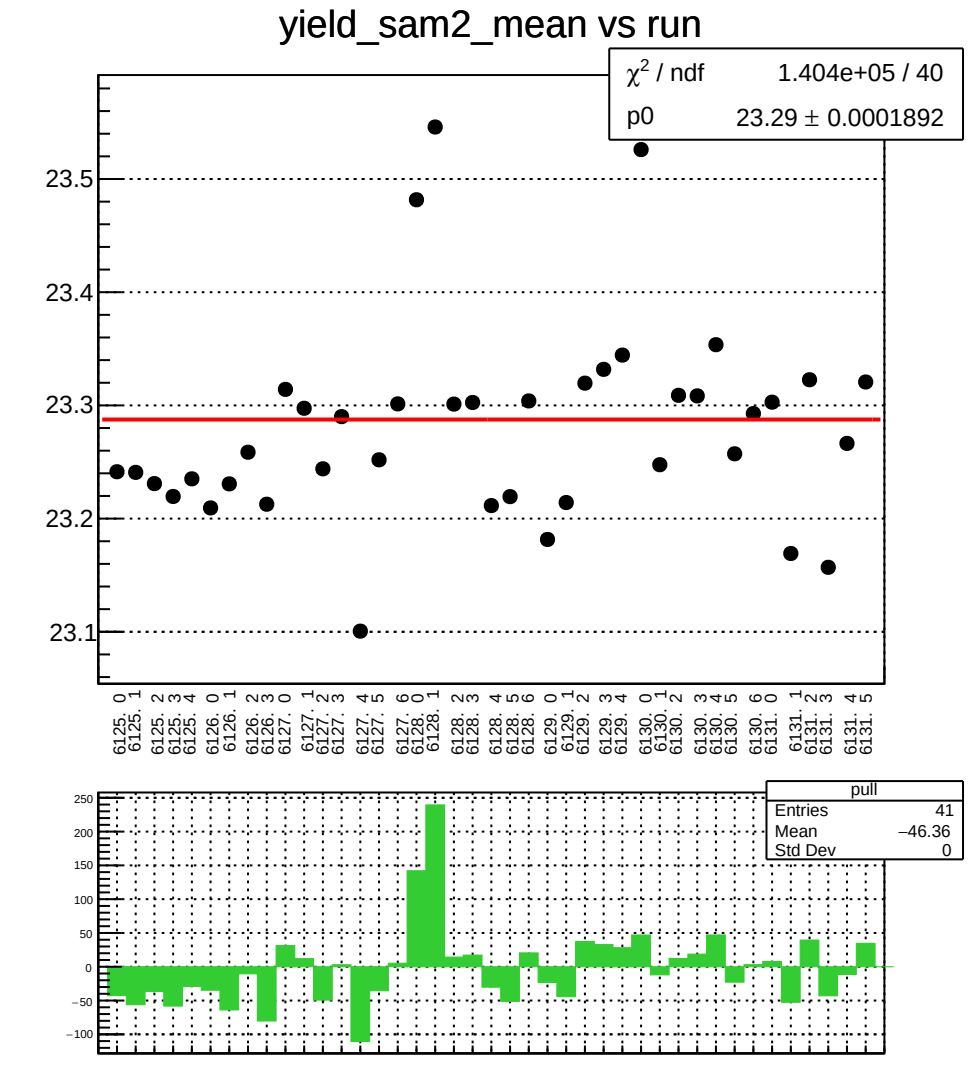

pull1D
Entries 41
Mean 0.01017
Std Dev 1.005

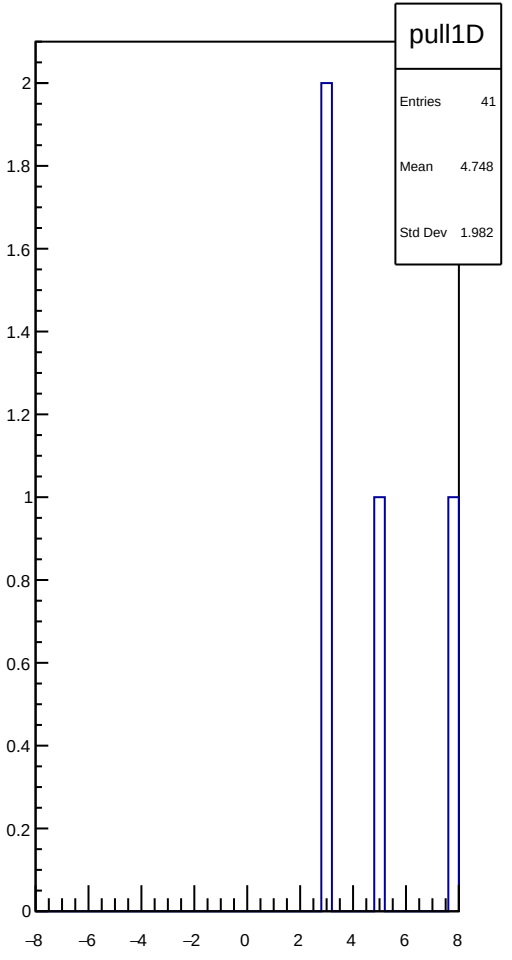

diff_bpm1i06Y_rms vs run
χ² / ndf 876.9 / 40
p0 2977 ± 3.321
3200
3100
3000
2900
2800
2700
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

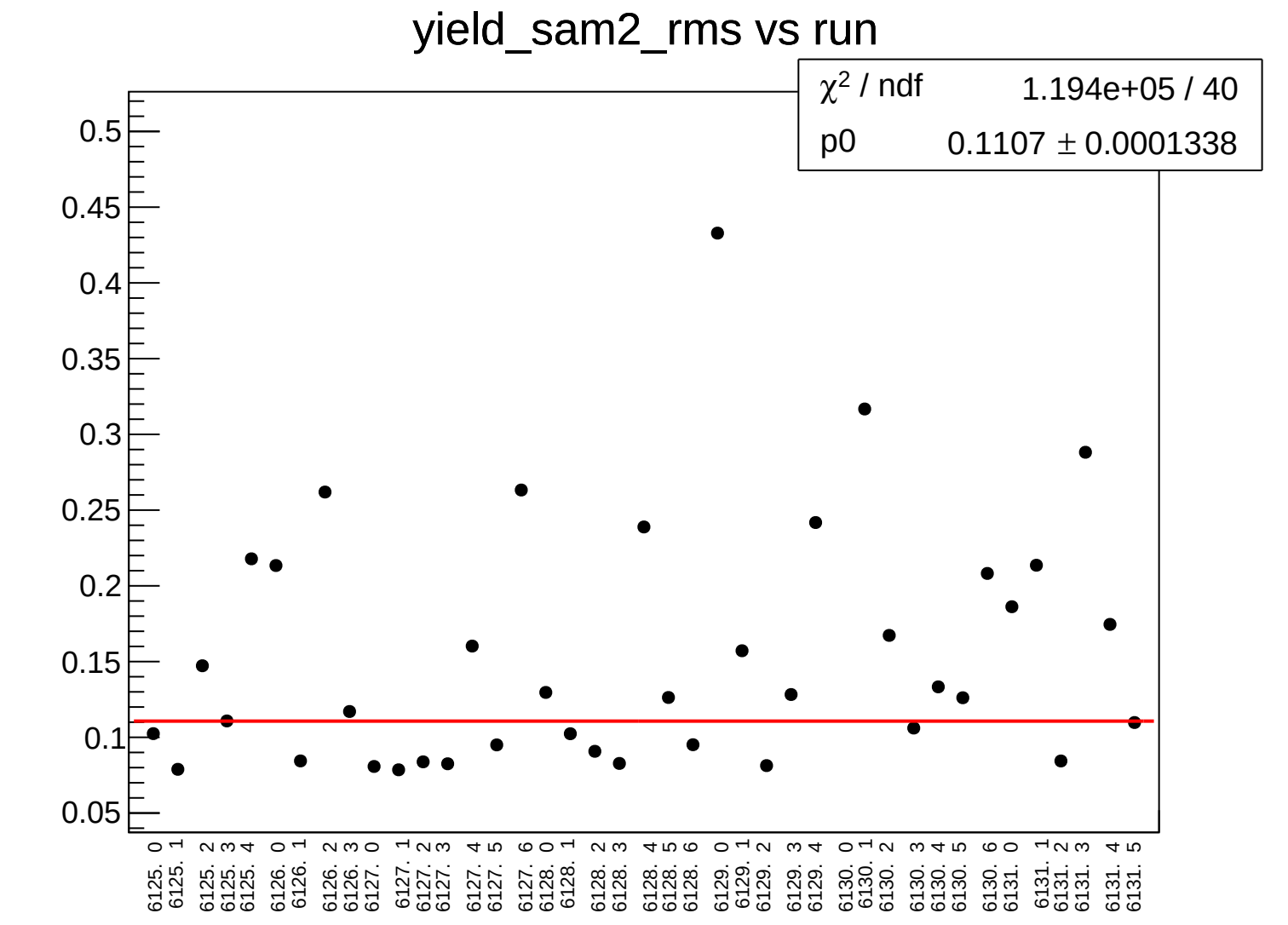

yield_sam1_mean vs run
χ² / ndf 6.252e+05 / 40
p0 16.19 ± 2.077e−05
16.23
16.22
16.21
16.2
16.19
16.18
16.17
16.16
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −748.2
Std Dev 0
300
200
100
0
−100
−200

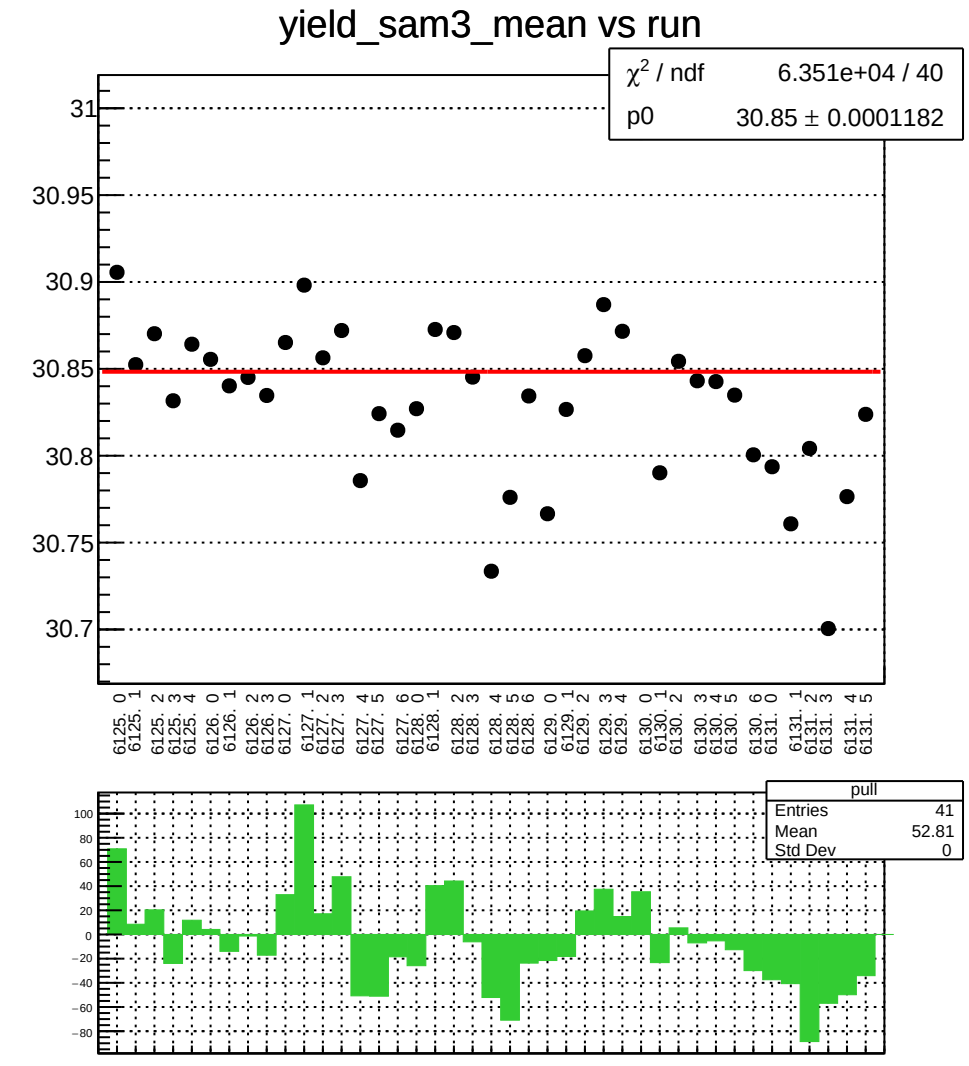

pull1D
Entries 41
Mean 0.694
Std Dev 0.1557
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

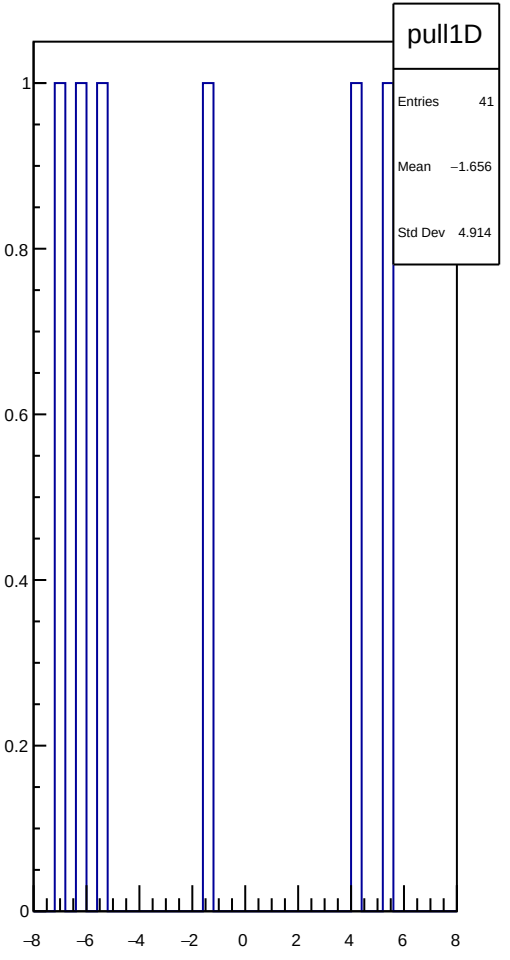

yield_sam1_rms vs run
χ² / ndf 3.691e+04 / 40
p0 0.01286 ± 1.468e−05
0.03
0.025
0.02
0.015
0.01
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

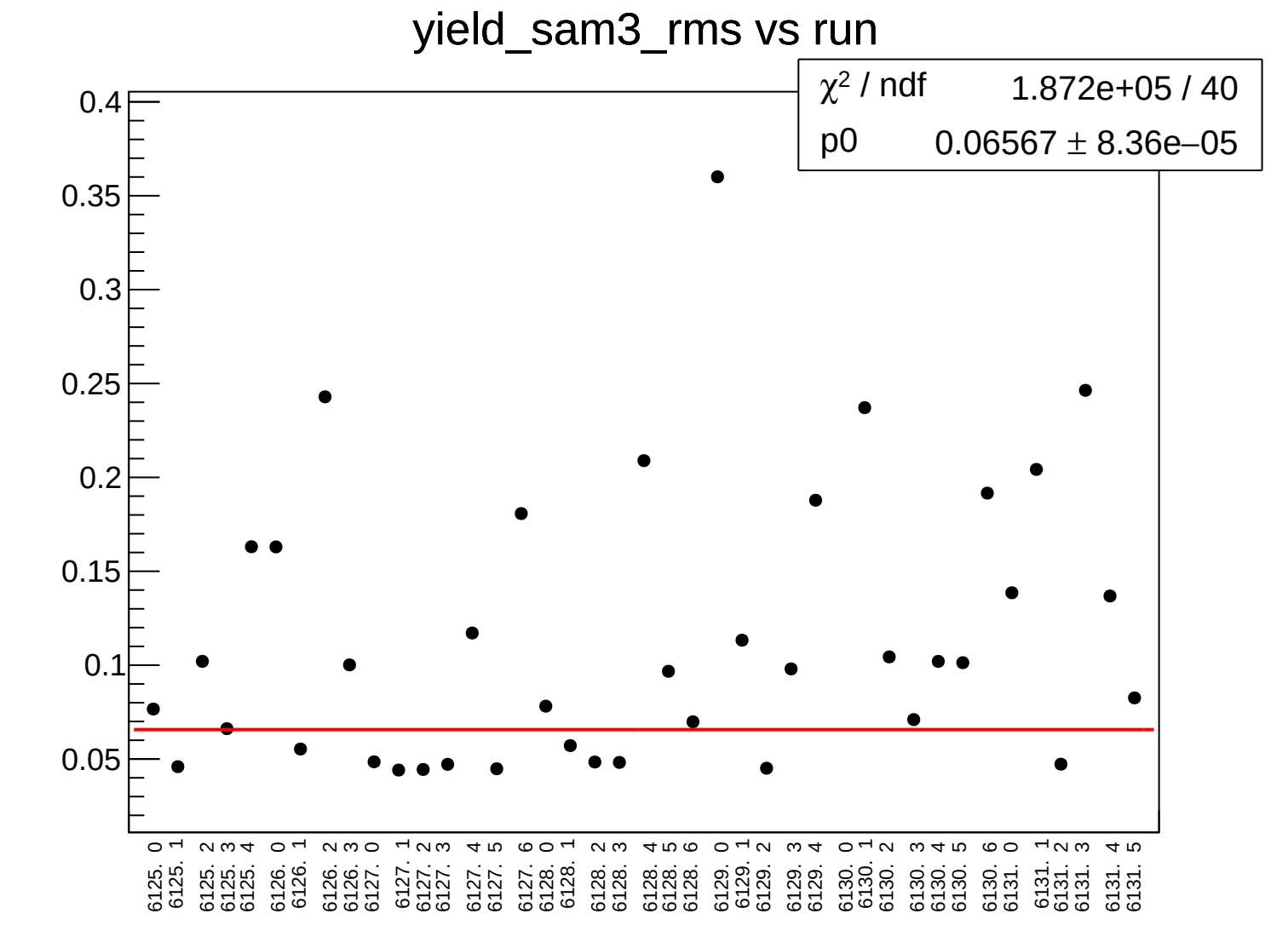

yield_sam2_mean vs run
χ² / ndf 1.404e+05 / 40
p0 23.29 ± 0.0001892
23.5
23.4
23.3
23.2
23.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −46.36
Std Dev 0
250
200
150
100
50
0
−50
−100

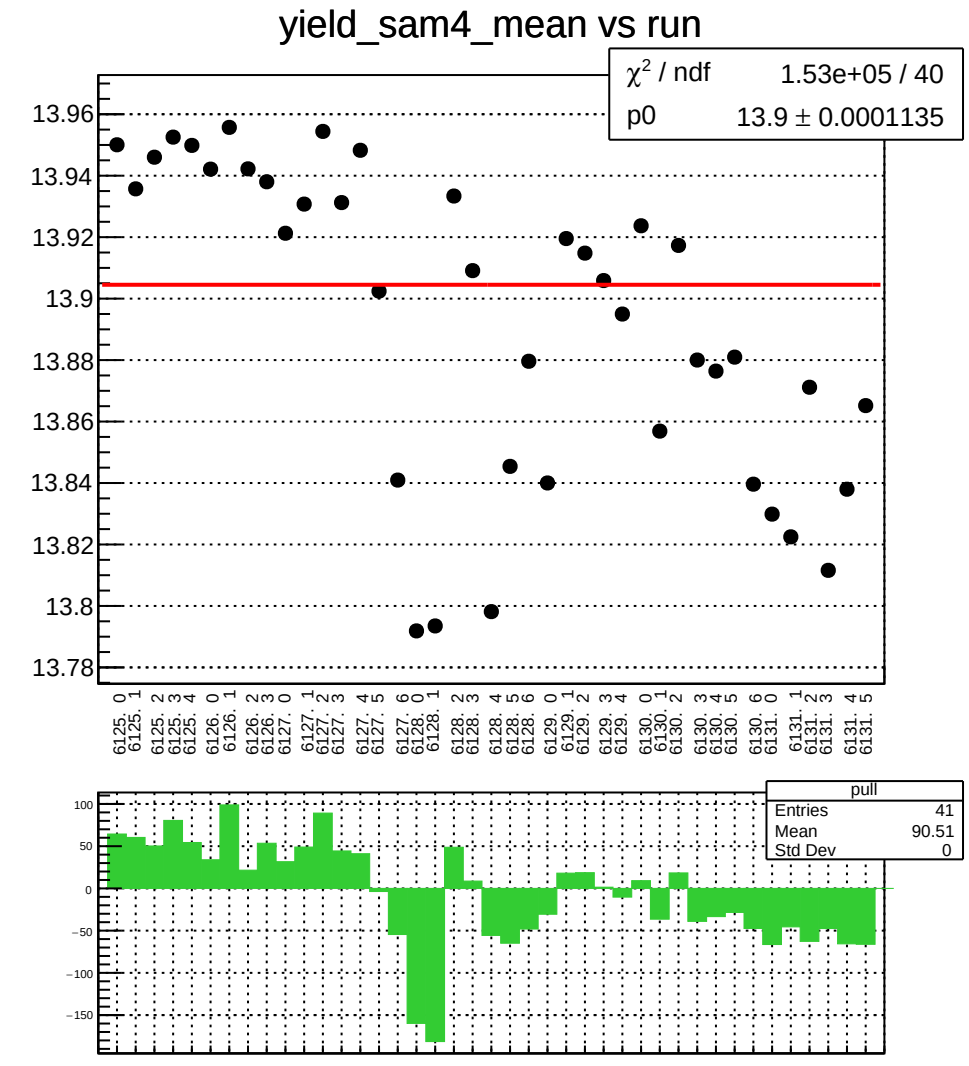

pull1D
Entries 41
Mean 4.748
Std Dev 1.982
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

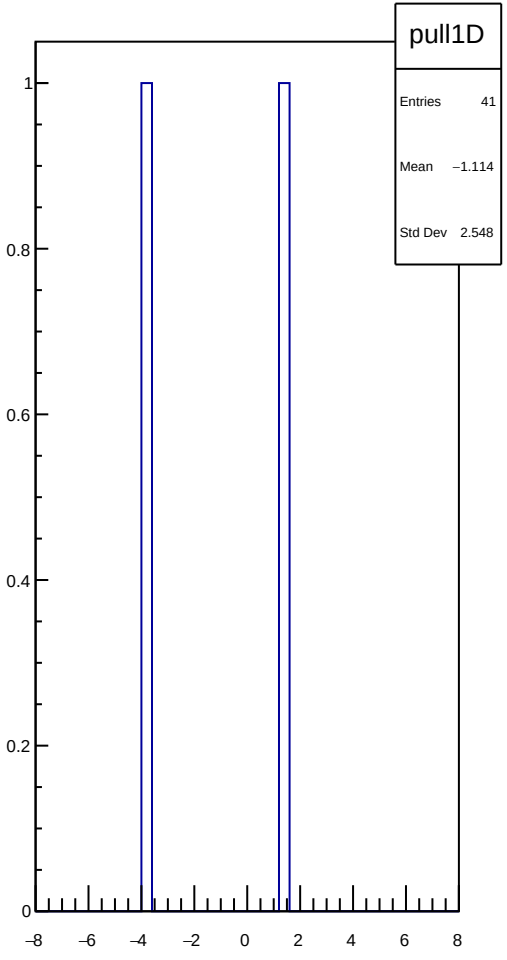

yield_sam2_rms vs run
χ² / ndf 1.194e+05 / 40
p0 0.1107 ± 0.0001338
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

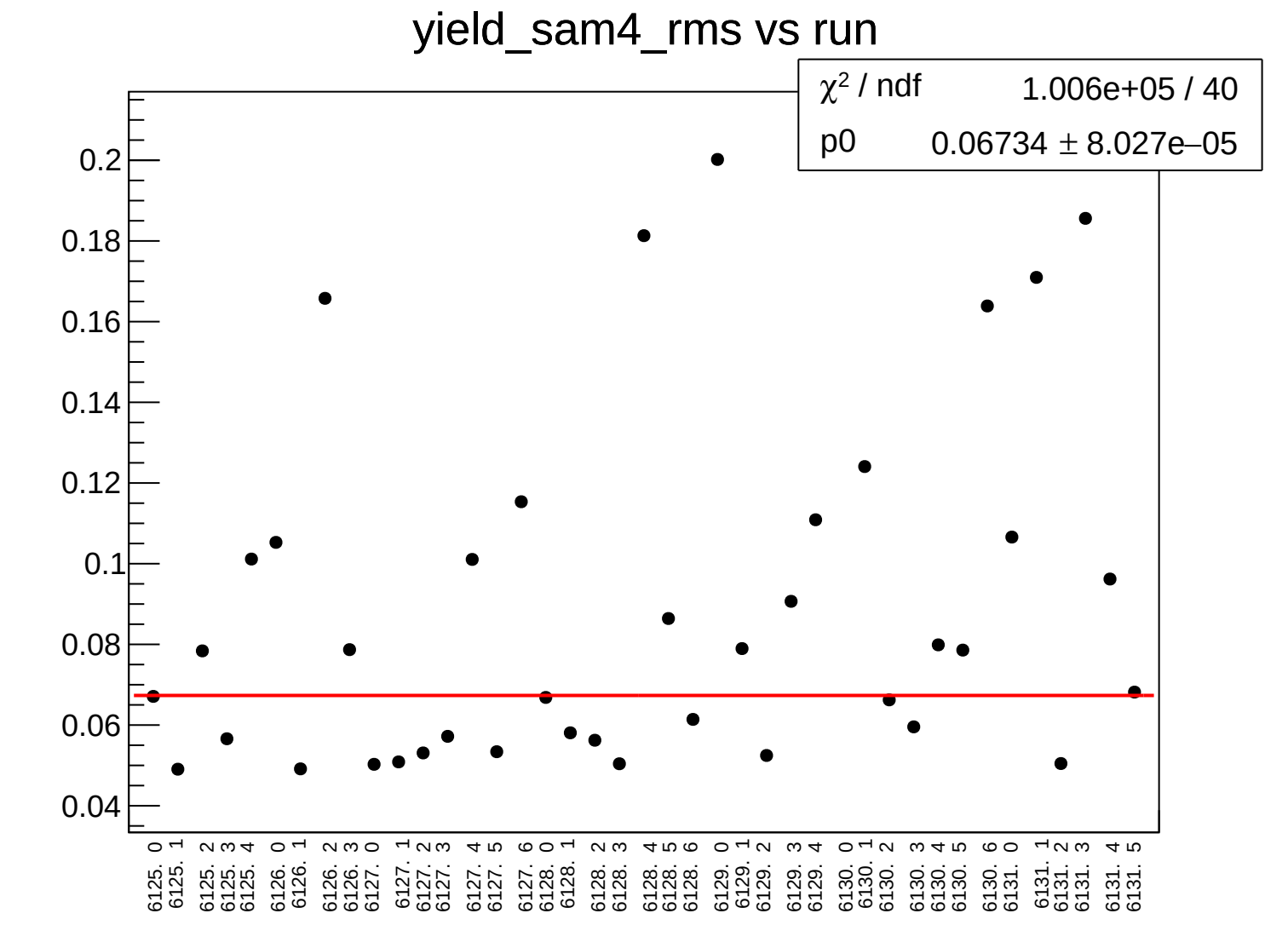

yield_sam3_mean vs run
χ² / ndf 6.351e+04 / 40
p0 30.85 ± 0.0001182
31
30.95
30.9
30.85
30.8
30.75
30.7
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 52.81
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

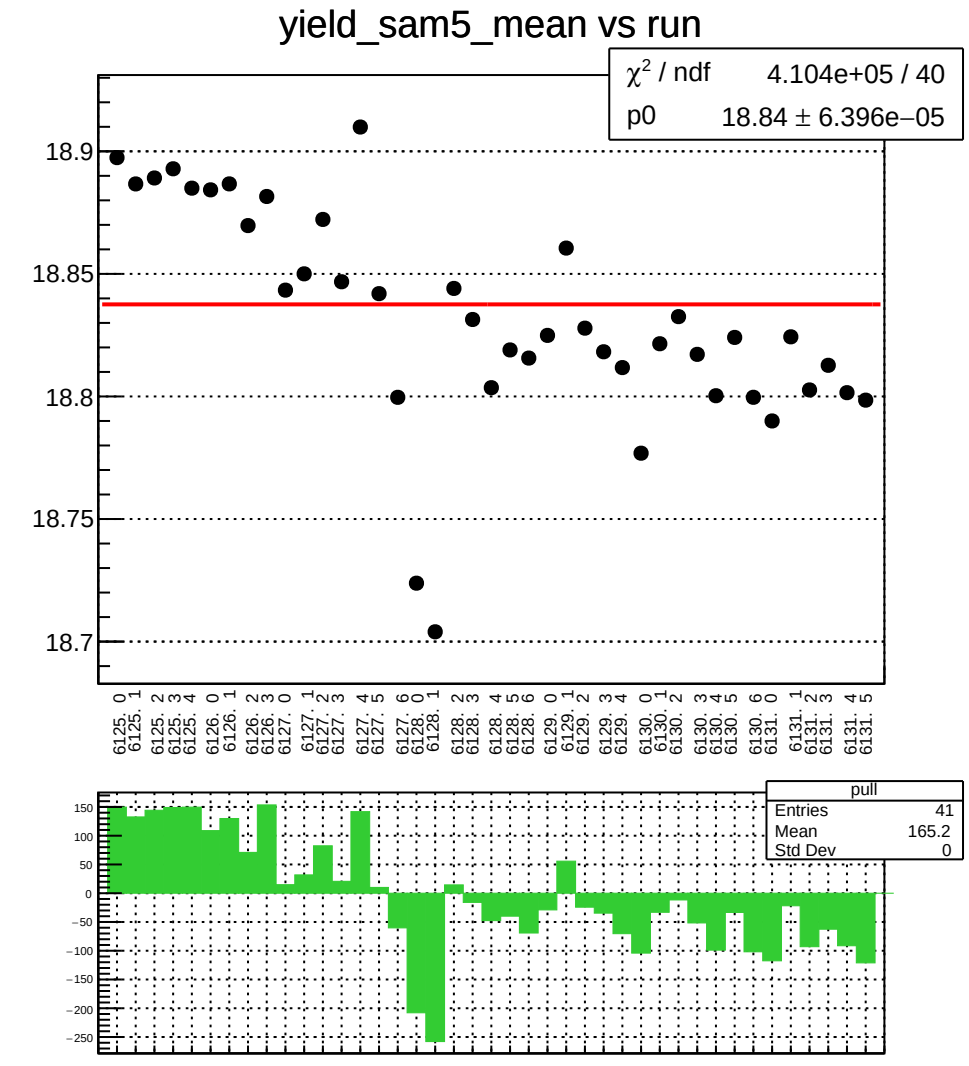

pull1D
Entries 41
Mean −1.656
Std Dev 4.914
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

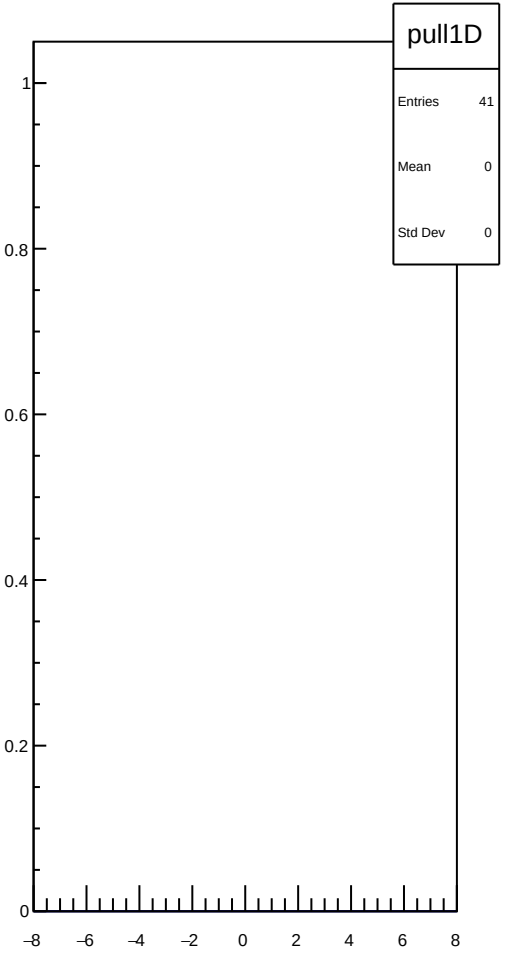

yield_sam3_rms vs run
χ² / ndf 1.872e+05 / 40
p0 0.06567 ± 8.36e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

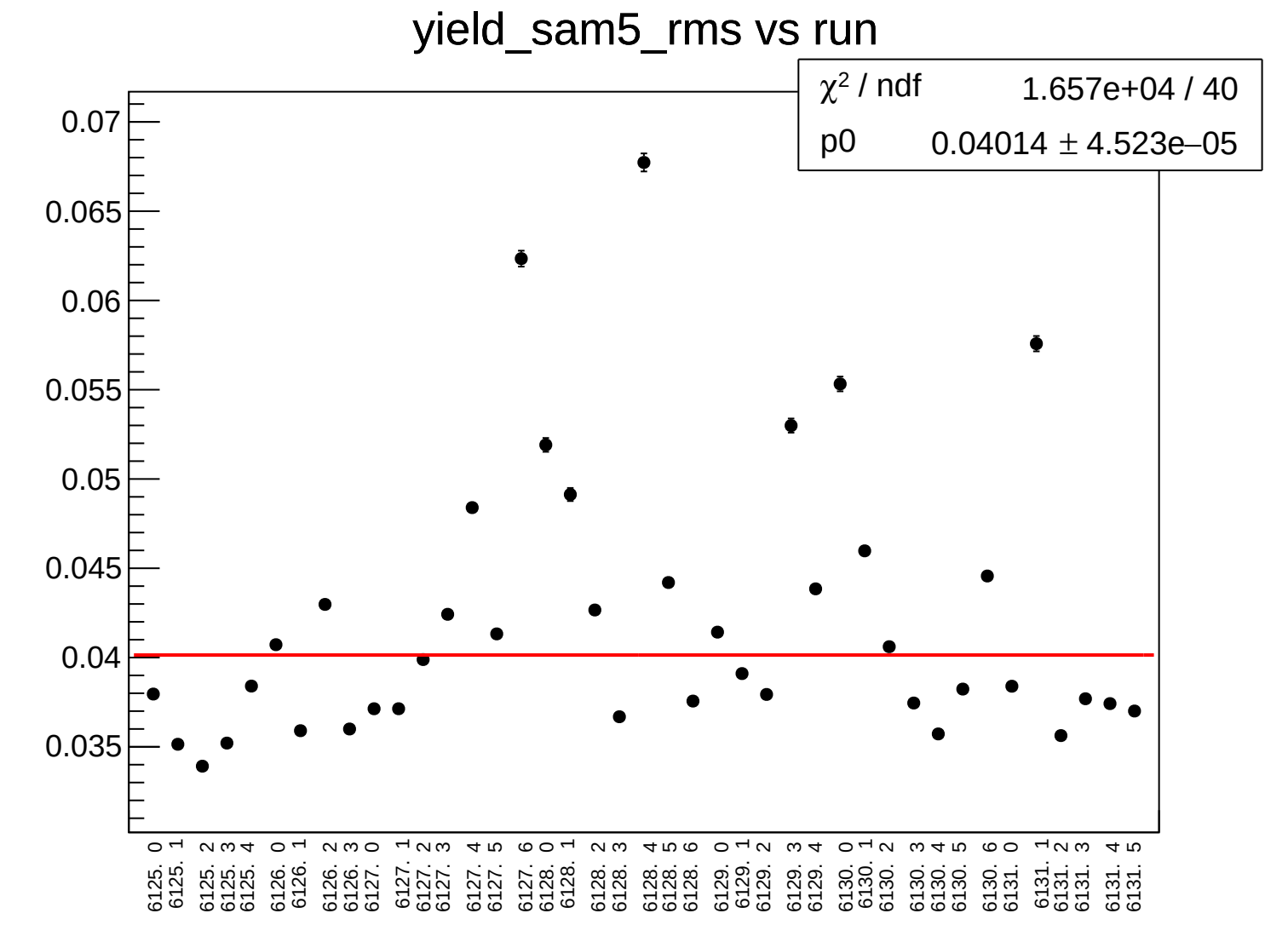

yield_sam4_mean vs run
χ² / ndf 1.53e+05 / 40
p0 13.9 ± 0.0001135
13.96
13.94
13.92
13.9
13.88
13.86
13.84
13.82
13.8
13.78
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 90.51
Std Dev 0
100
50
0
−50
−100
−150

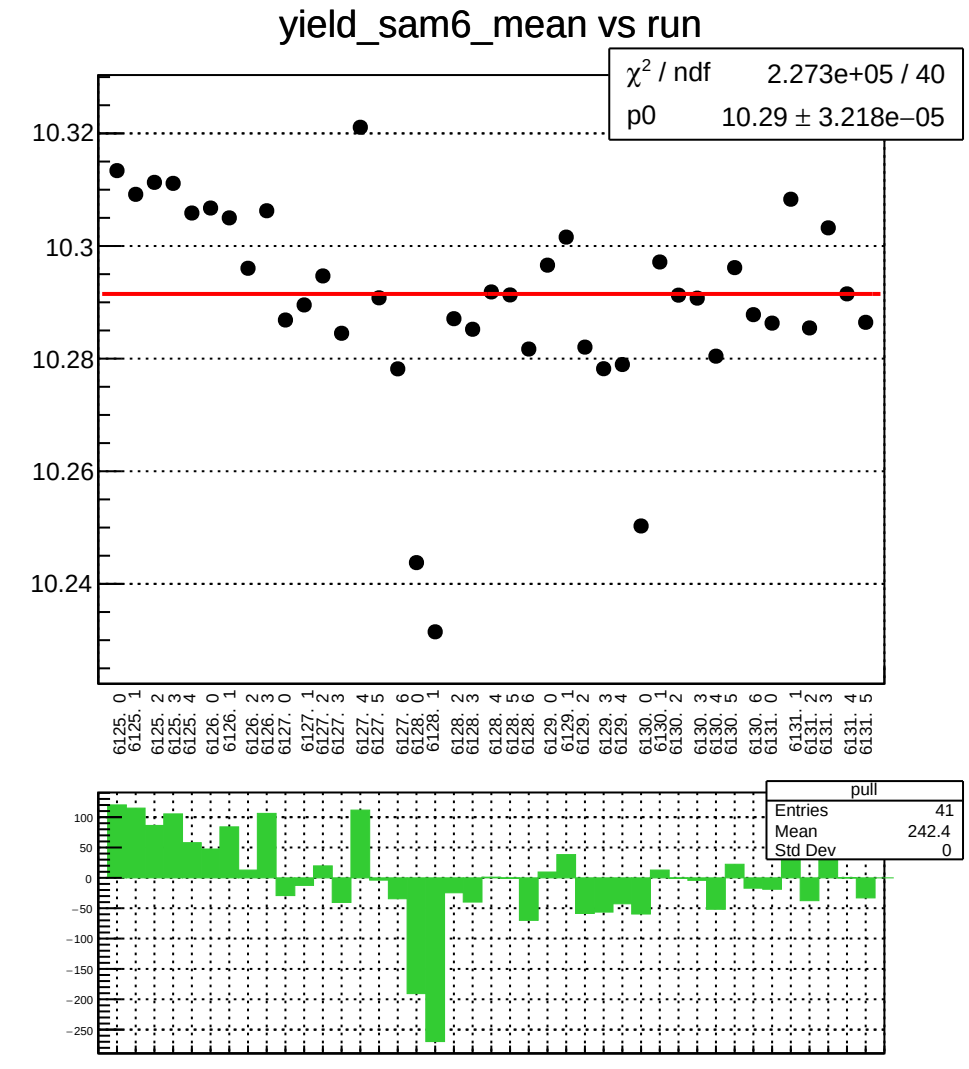

pull1D
Entries 41
Mean −1.114
Std Dev 2.548
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

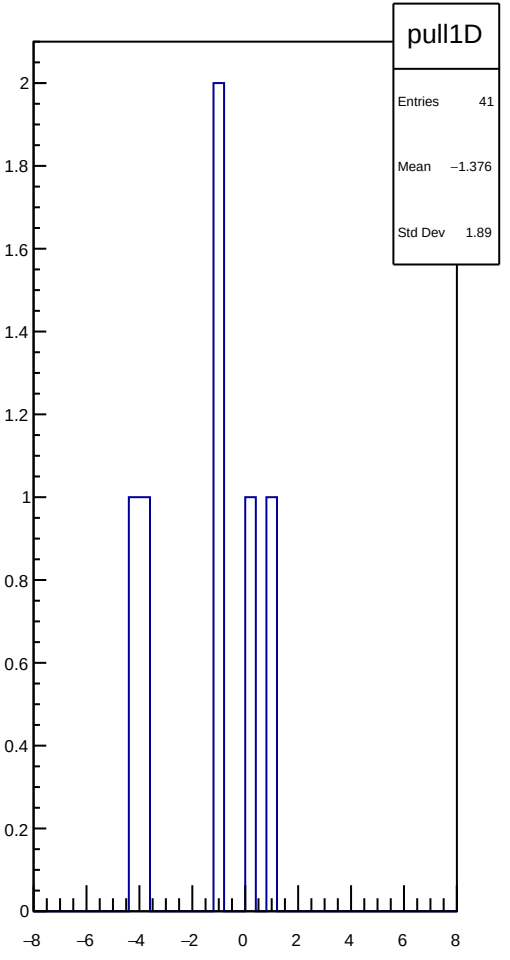

yield_sam4_rms vs run
χ² / ndf 1.006e+05 / 40
p0 0.06734 ± 8.027e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

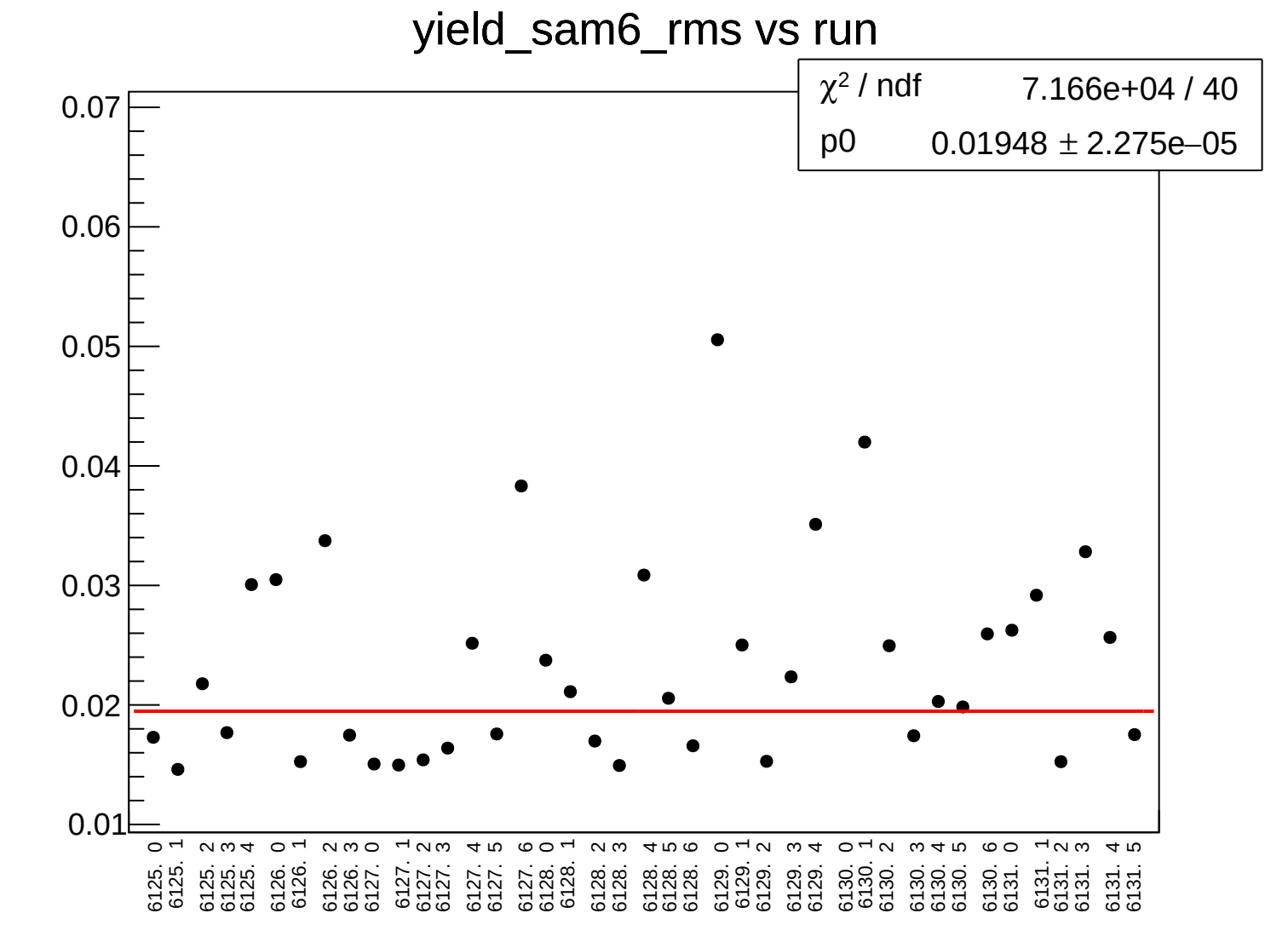

yield_sam5_mean vs run
χ² / ndf 4.104e+05 / 40
p0 18.84 ± 6.396e−05
18.9
18.85
18.8
18.75
18.7
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 165.2
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

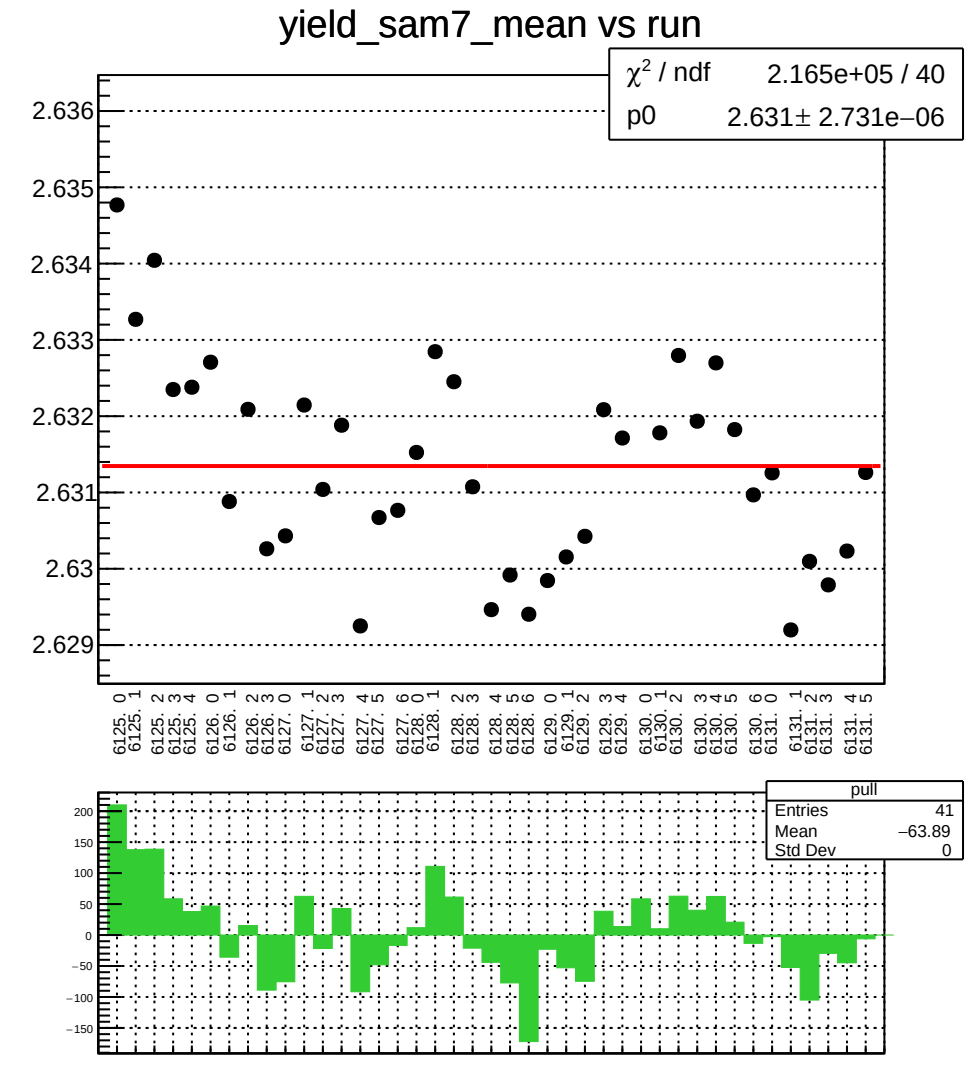

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

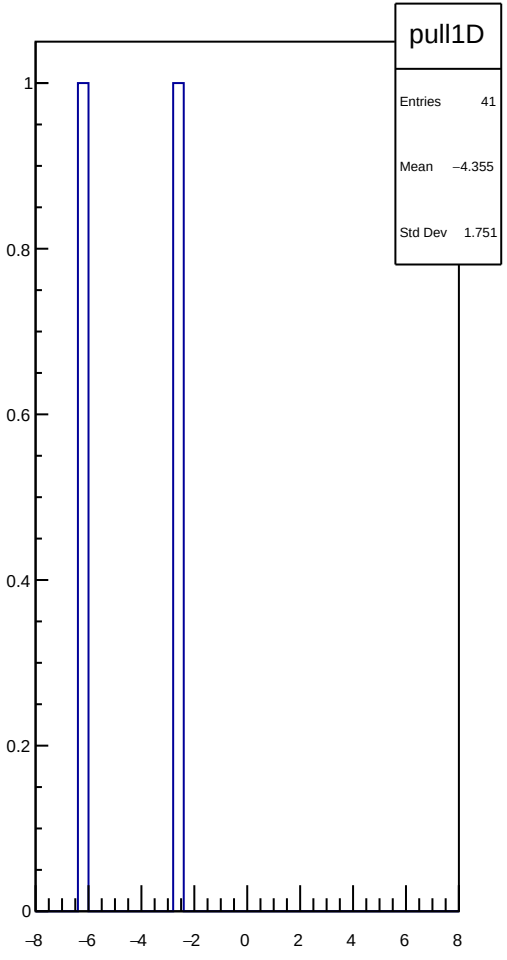

yield_sam5_rms vs run
χ² / ndf 1.657e+04 / 40
p0 0.04014 ± 4.523e−05
0.07
0.065
0.06
0.055
0.05
0.045
0.04
0.035
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

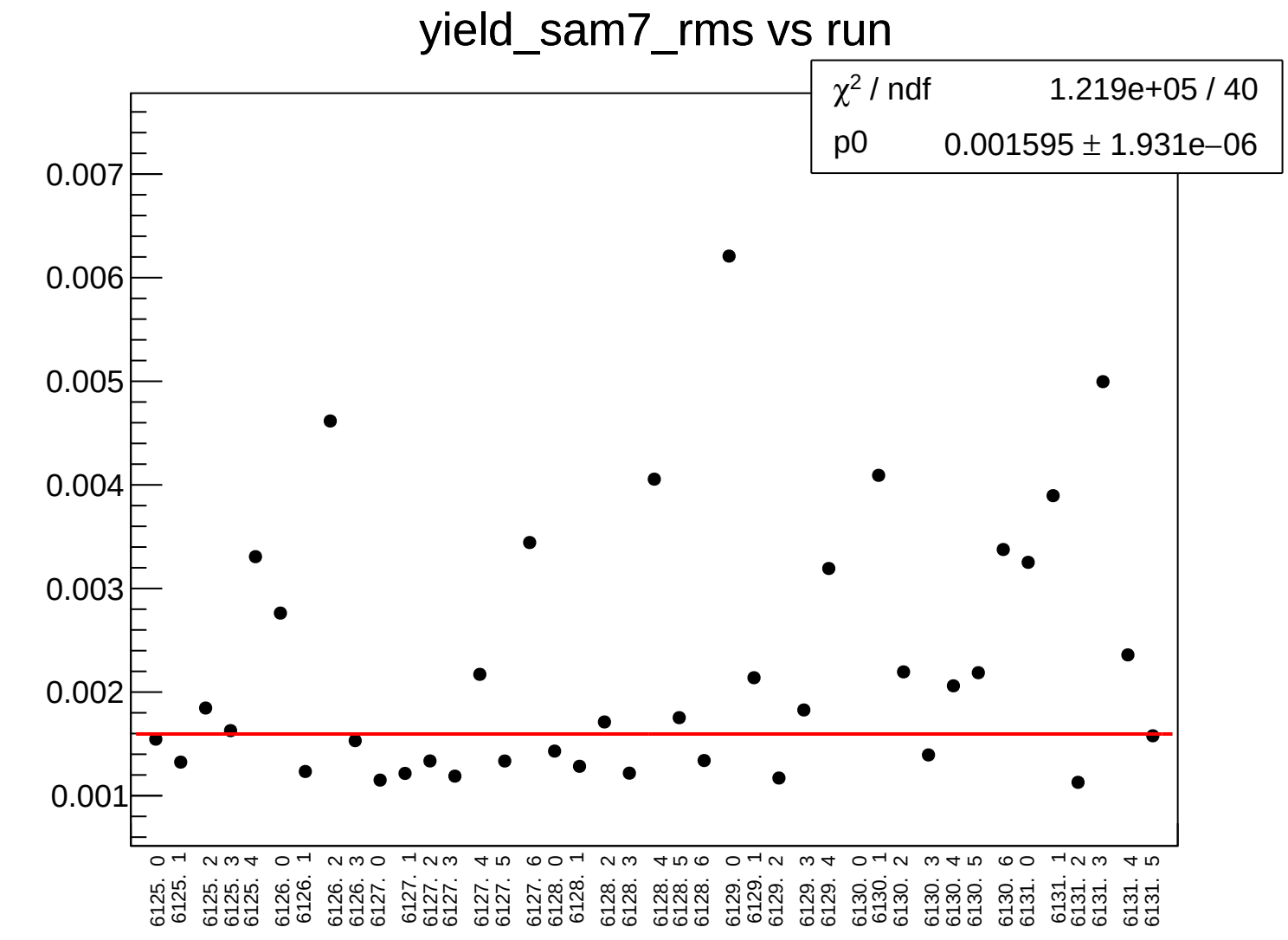

yield_sam6_mean vs run
χ² / ndf 2.273e+05 / 40
p0 10.29 ± 3.218e−05
10.32
10.3
10.28
10.26
10.24
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 242.4
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

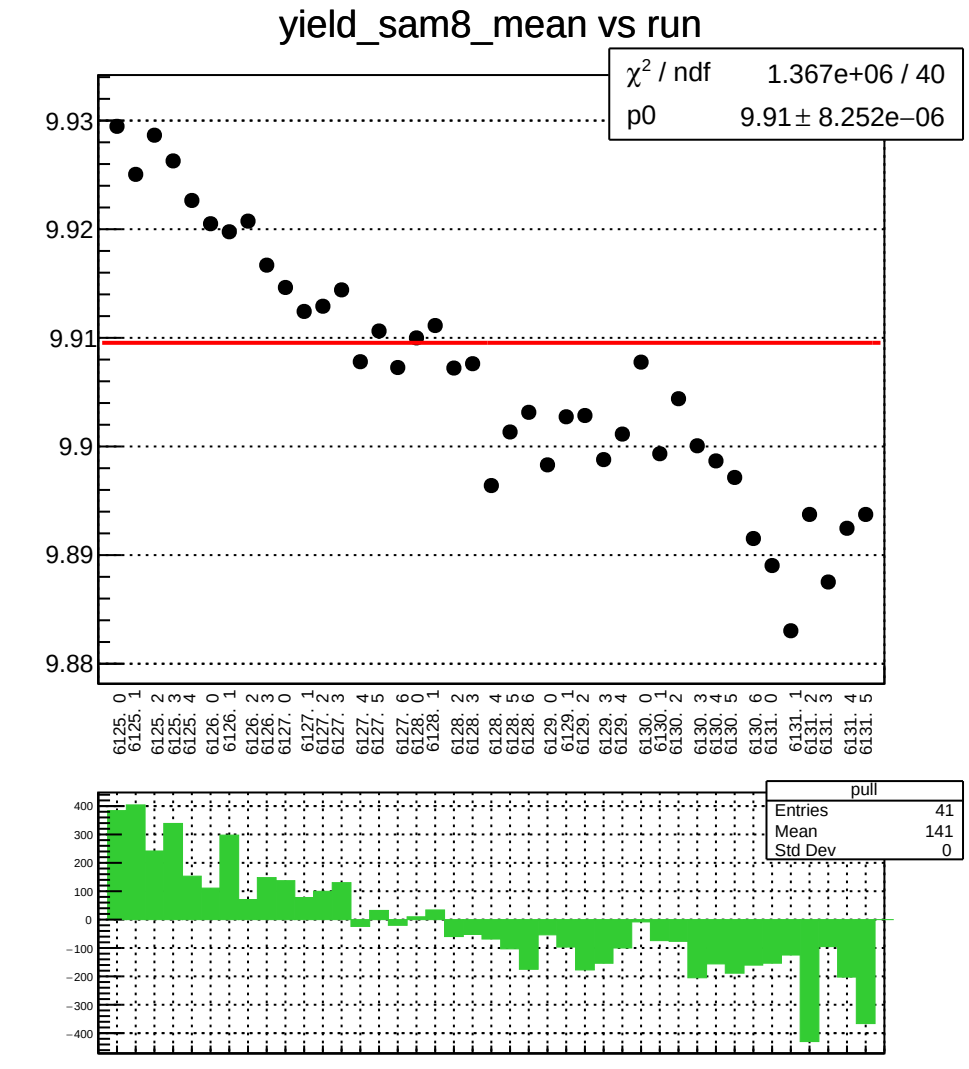

pull1D
Entries 41
Mean −1.376
Std Dev 1.89
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

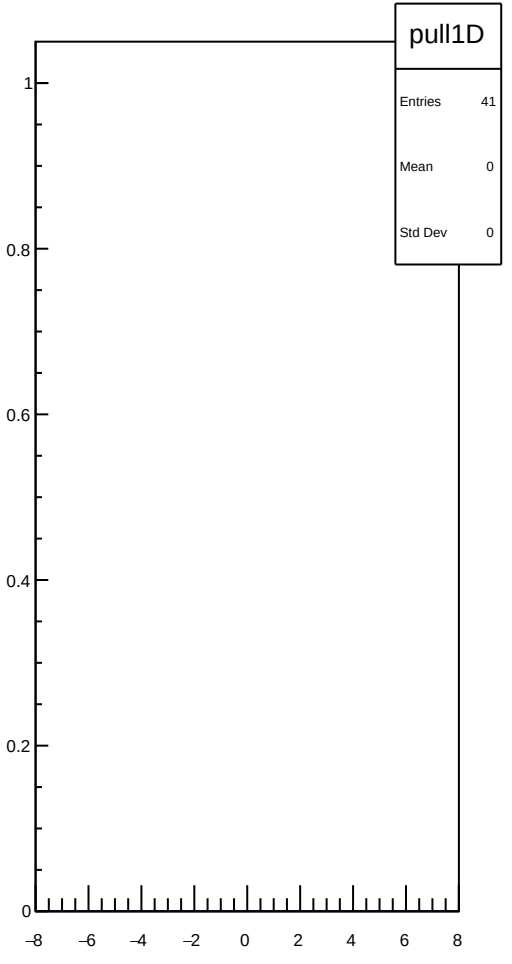

yield_sam6_rms vs run
χ² / ndf 7.166e+04 / 40
p0 0.01948 ± 2.275e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

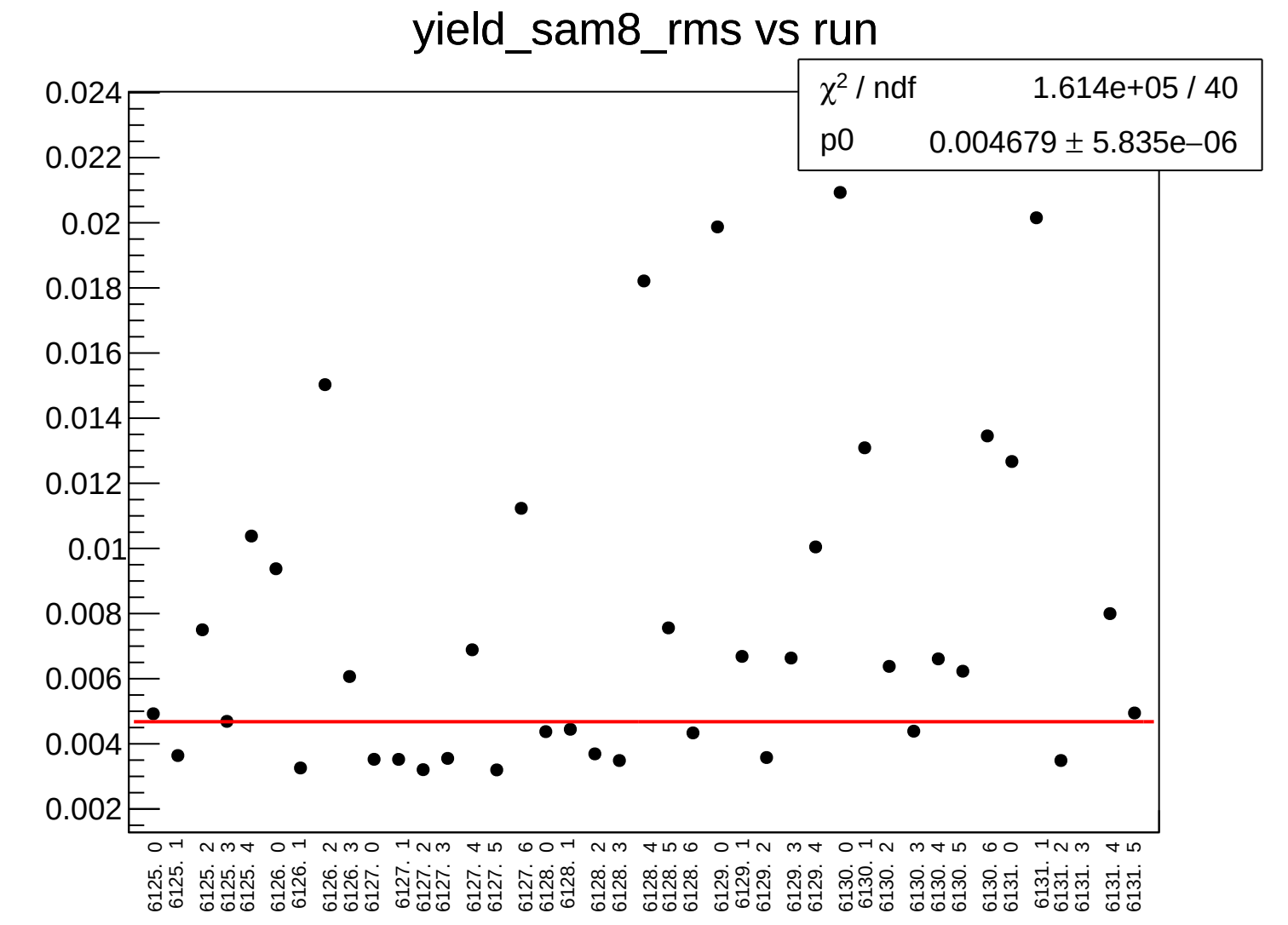

yield_sam7_mean vs run
χ² / ndf 2.165e+05 / 40
p0 2.631± 2.731e−06
2.636
2.635
2.634
2.633
2.632
2.631
2.63
2.629
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −63.89
Std Dev 0
200
150
100
50
0
−50
−100
−150

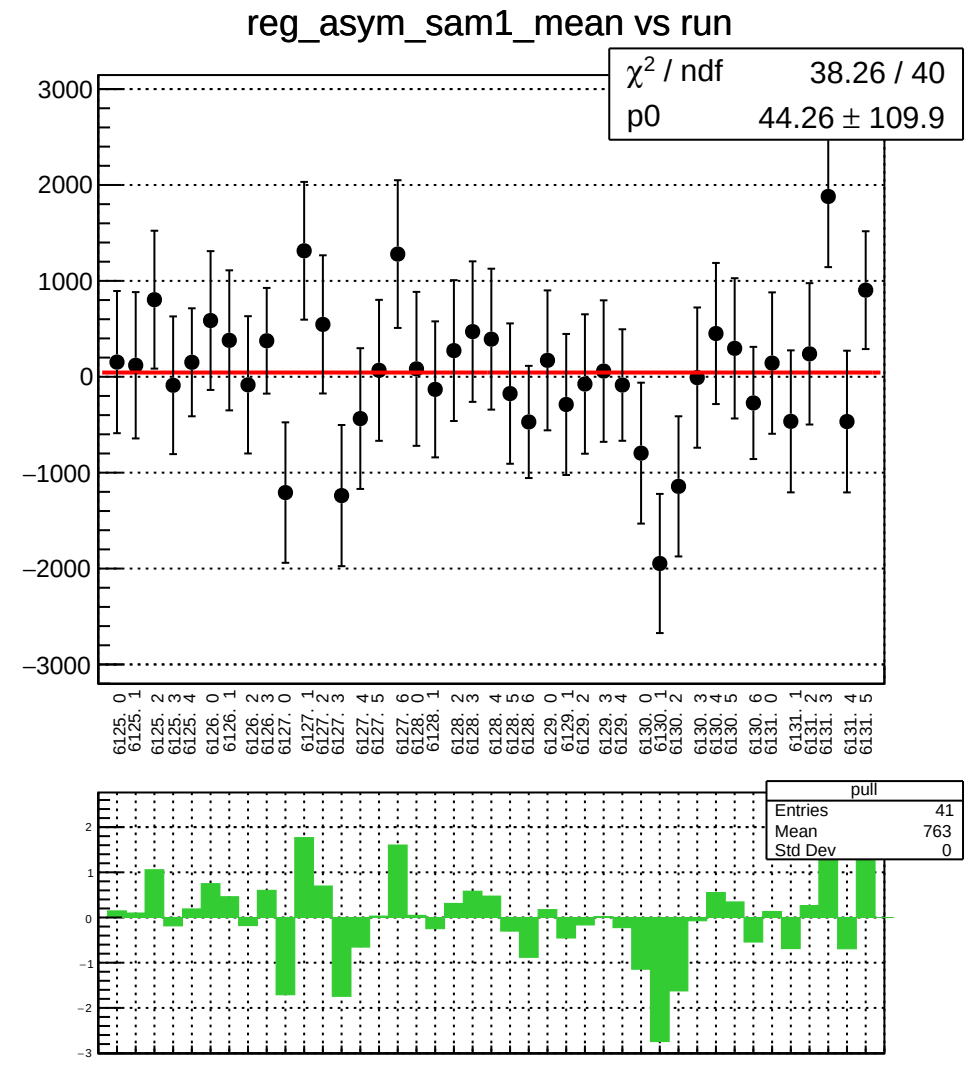

pull1D
Entries 41
Mean −4.355
Std Dev 1.751
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

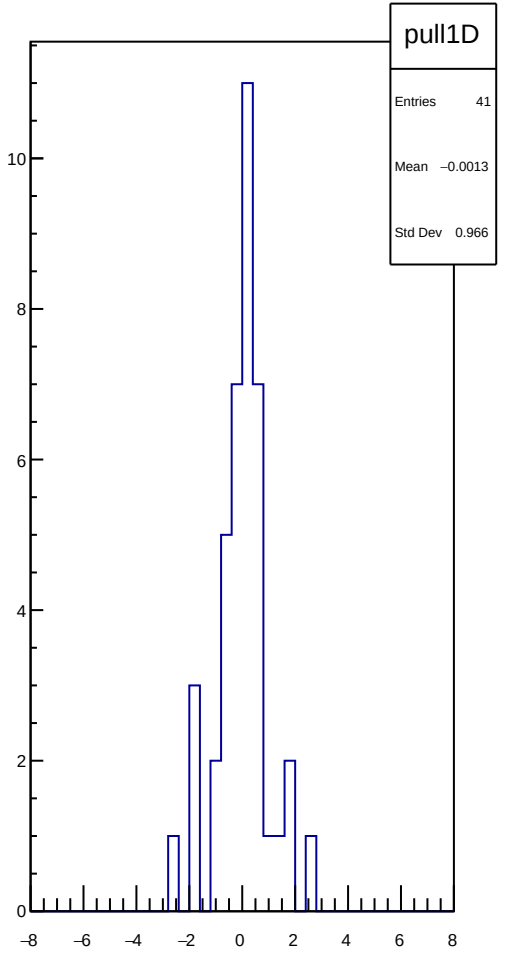

yield_sam7_rms vs run
χ² / ndf 1.219e+05 / 40
p0 0.001595 ± 1.931e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

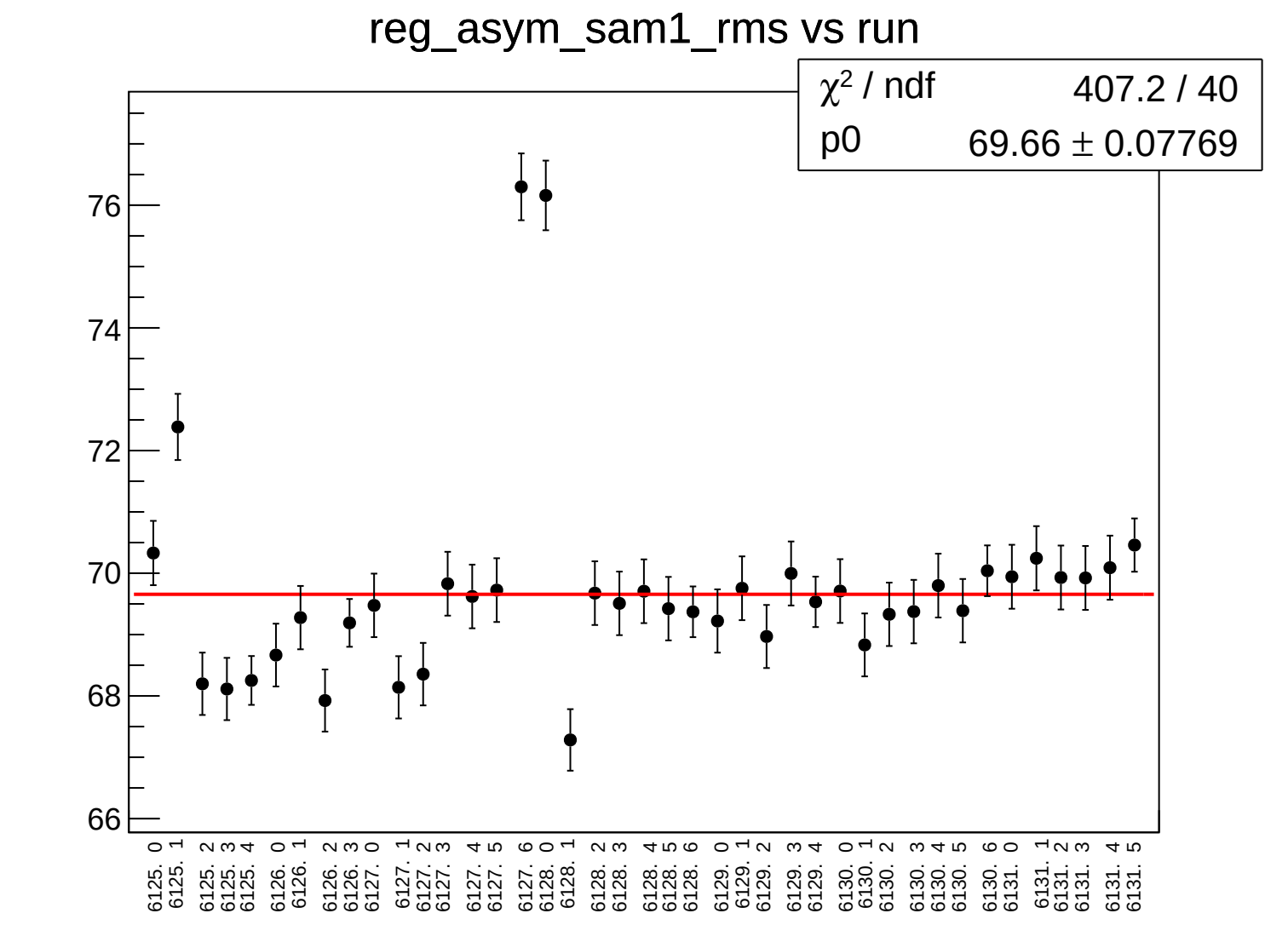

yield_sam8_mean vs run
χ² / ndf 1.367e+06 / 40
p0 9.91 ± 8.252e−06
9.93
9.92
9.91
9.9
9.89
9.88
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 141
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

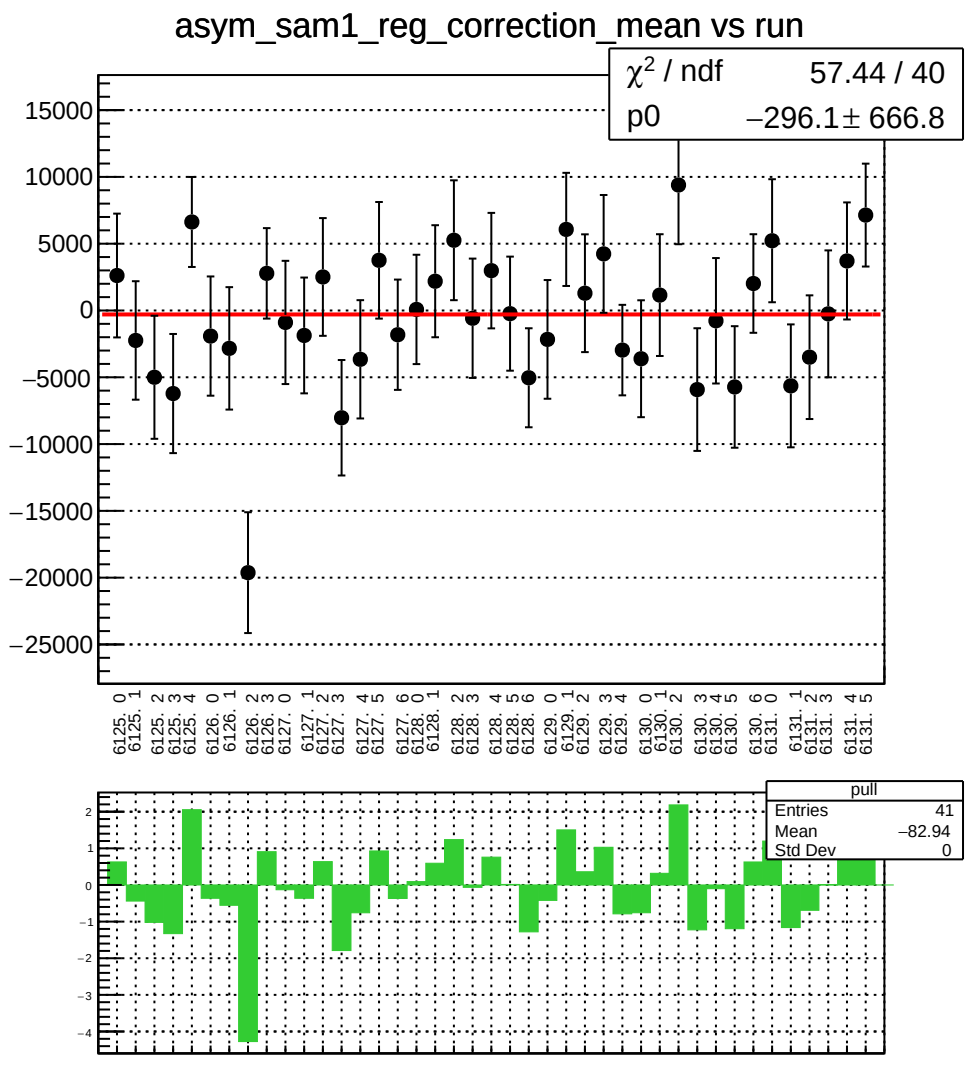

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

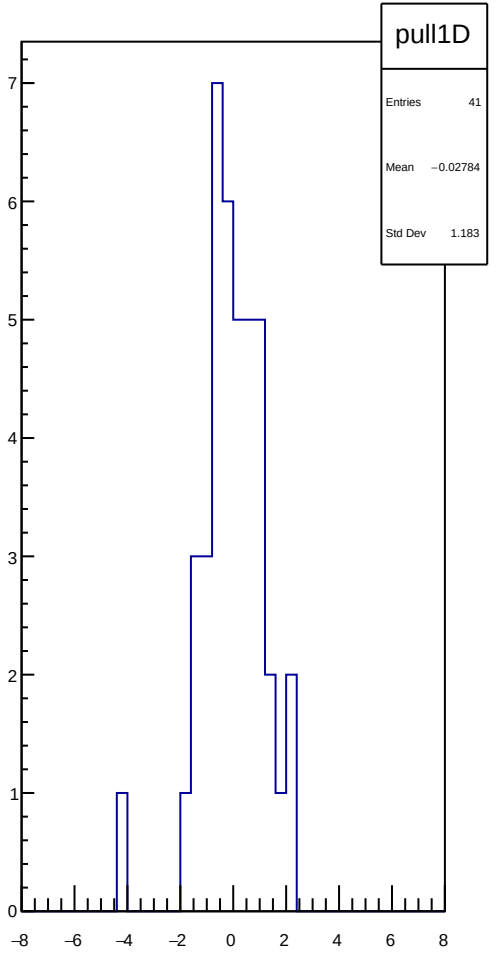

yield_sam8_rms vs run
χ² / ndf 1.614e+05 / 40
p0 0.004679 ± 5.835e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

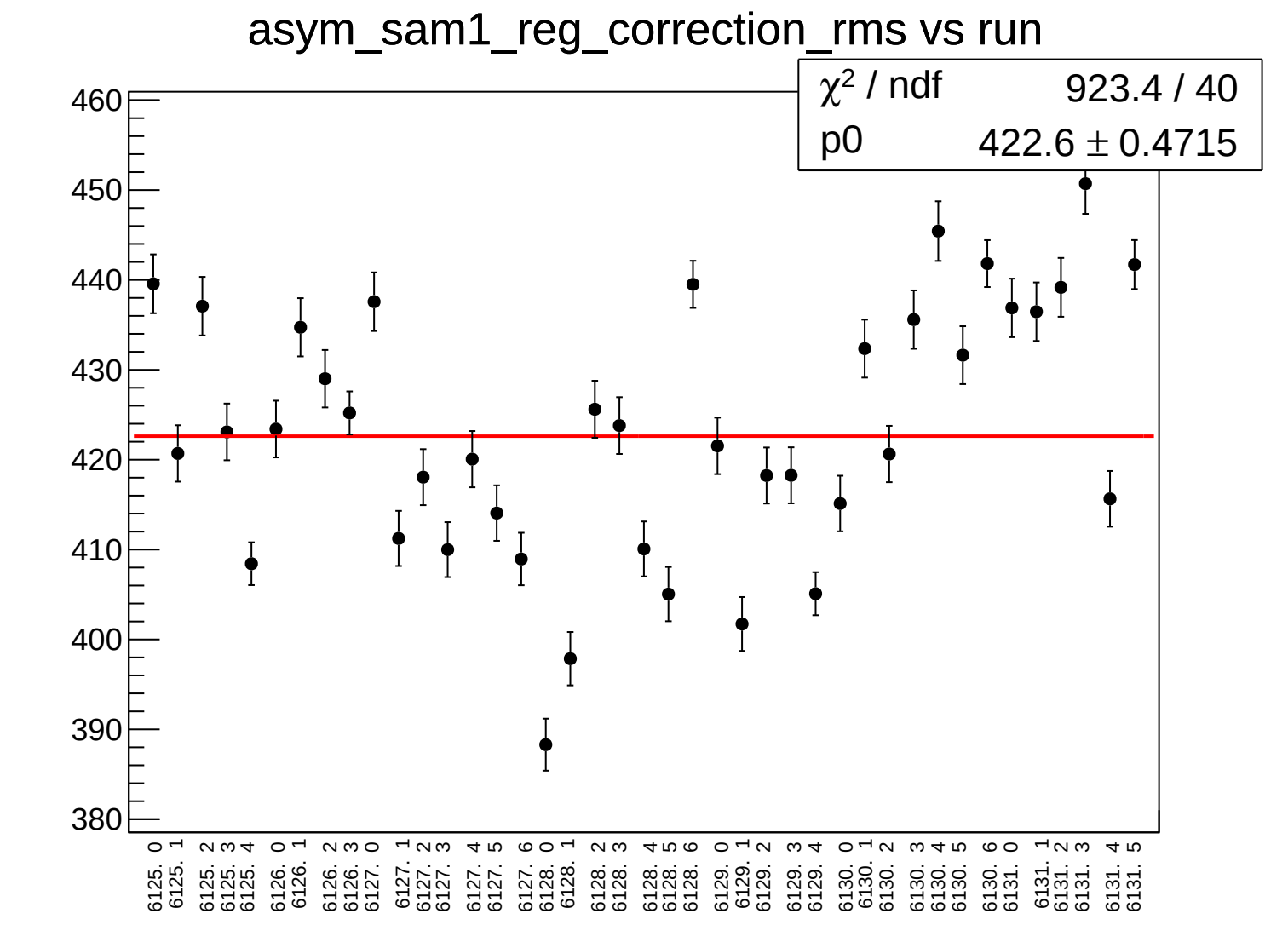

reg_asym_sam1_mean vs run
χ² / ndf 38.26 / 40
p0 44.26 ± 109.9
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 763
Std Dev 0
2
1
0
−1
−2
−3

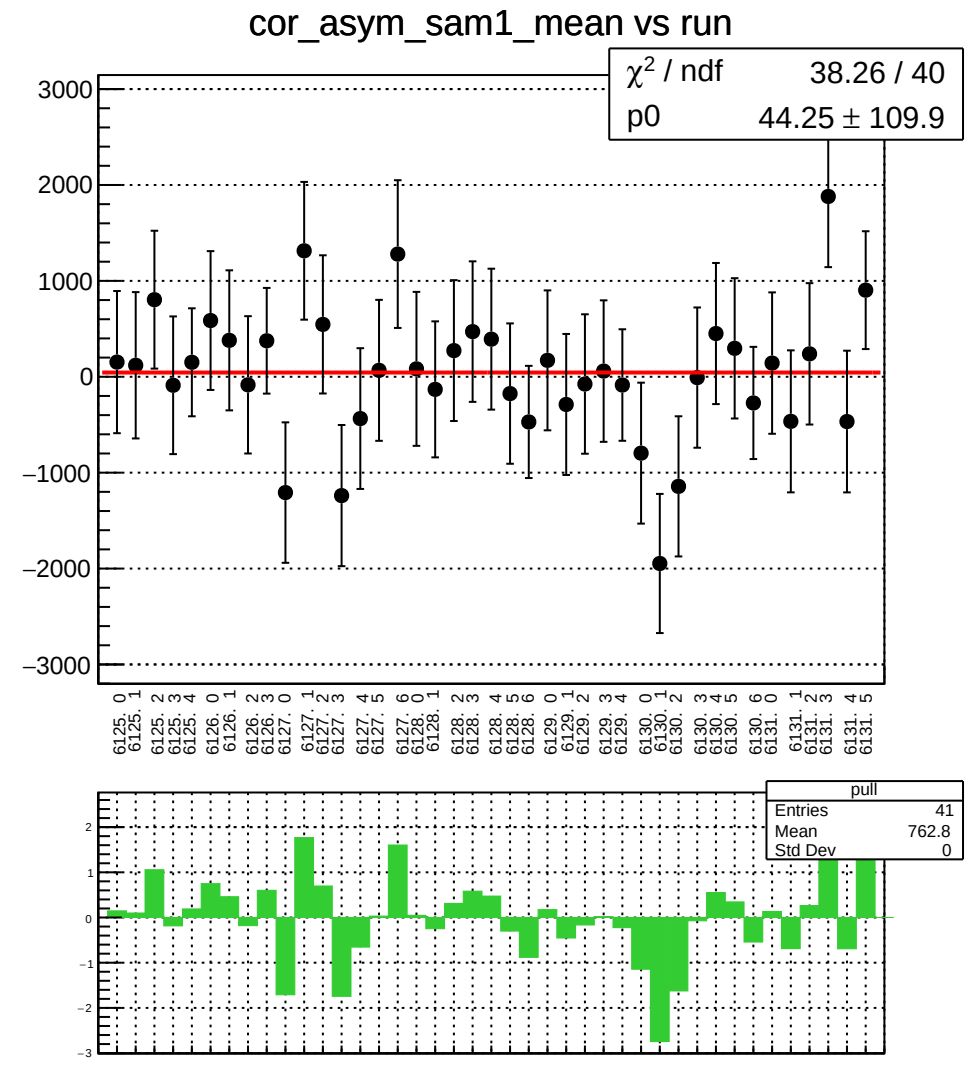

pull1D
Entries 41
Mean −0.0013
Std Dev 0.966
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

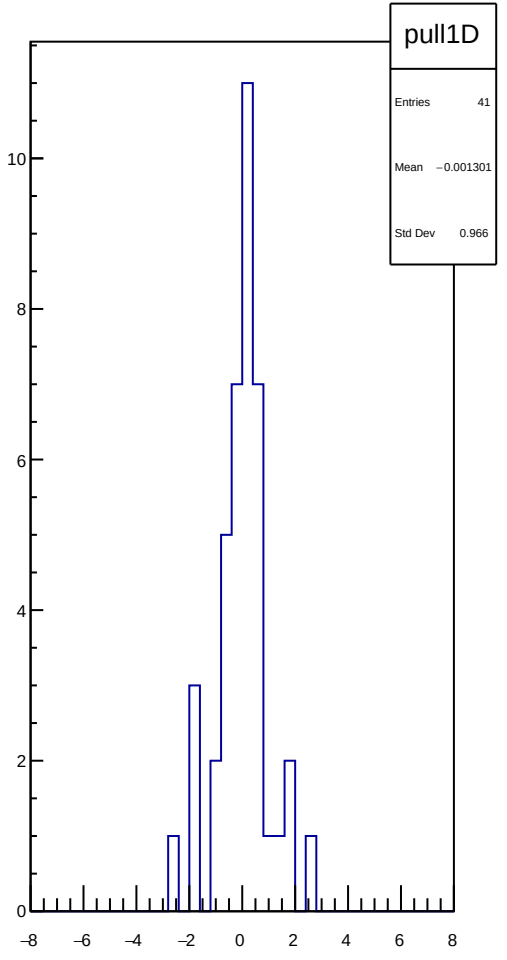

reg_asym_sam1_rms vs run
χ² / ndf 407.2 / 40
p0 69.66 ± 0.07769
76
74
72
70
68
66
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

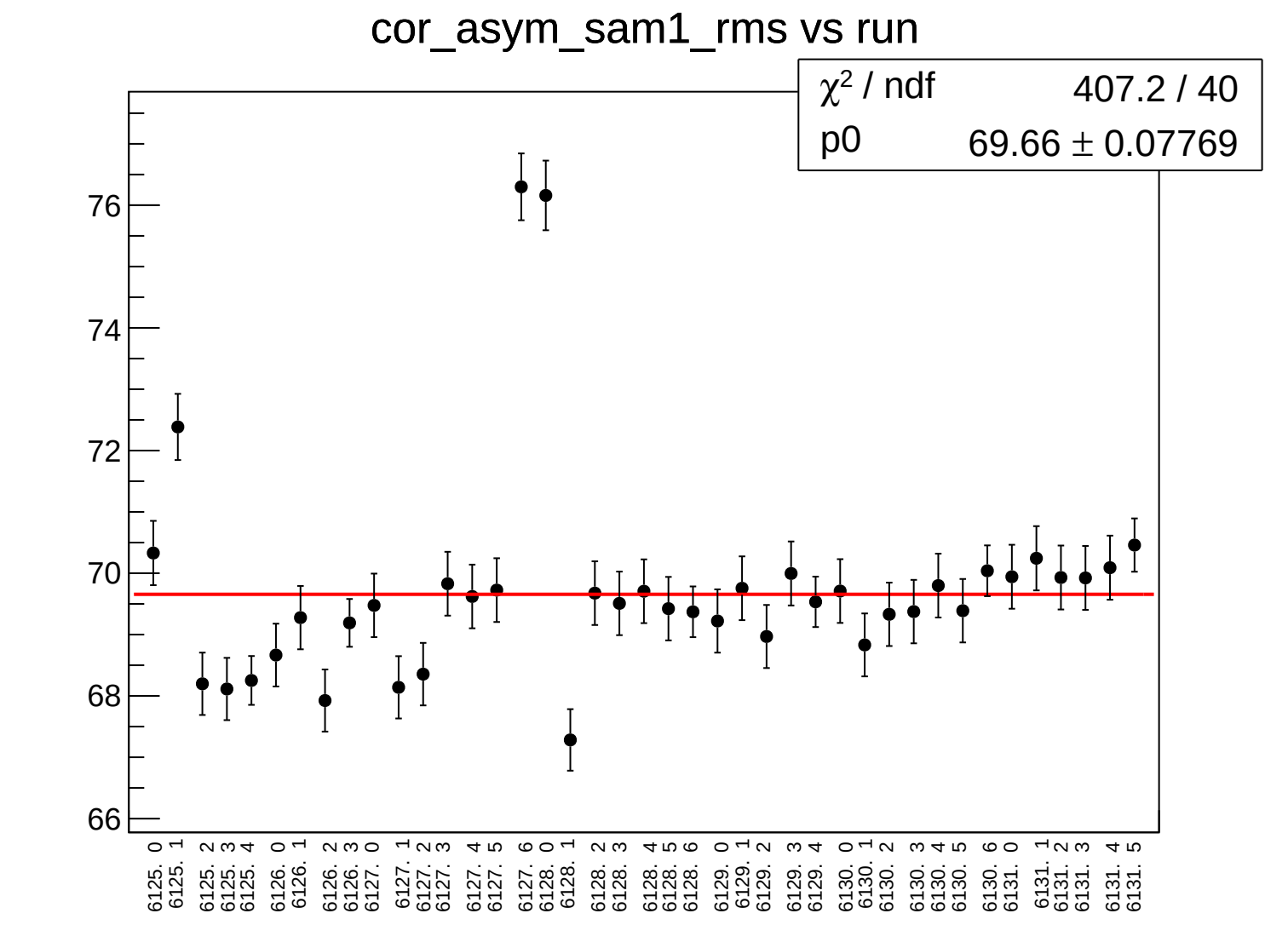

asym_sam1_reg_correction_mean vs run
χ² / ndf 57.44 / 40
p0 −296.1± 666.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −82.94
Std Dev 0
2
1
0
−1
−2
−3
−4


pull1D
Entries 41
Mean −0.02784
Std Dev 1.183
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 923.4 / 40
p0 422.6 ± 0.4715
460
450
440
430
420
410
400
390
380
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


cor_asym_sam1_mean vs run
χ² / ndf 38.26 / 40
p0 44.25 ± 109.9
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 762.8
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean −0.001301
Std Dev 0.966
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam1_rms vs run
χ² / ndf 407.2 / 40
p0 69.66 ± 0.07769
76
74
72
70
68
66
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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6130. 5
6130. 6
6131. 0
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6131. 2
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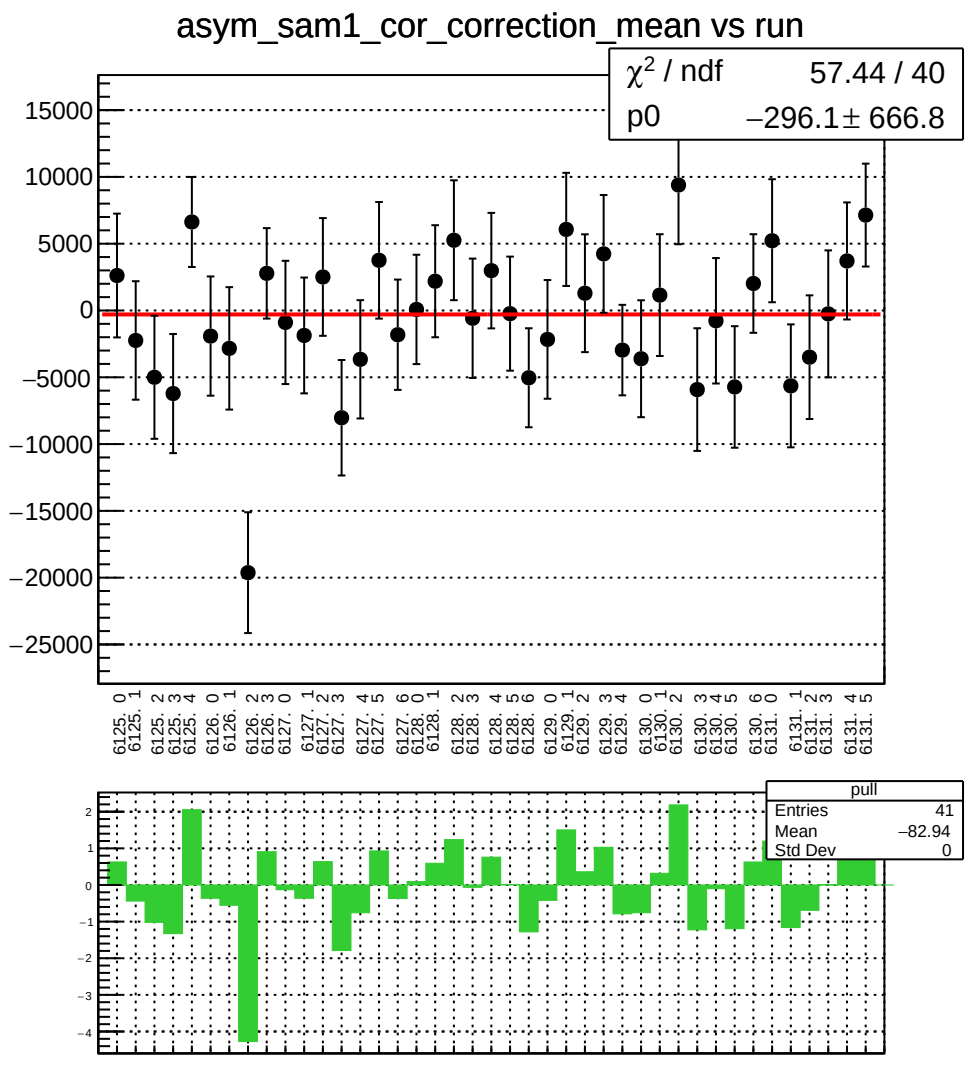
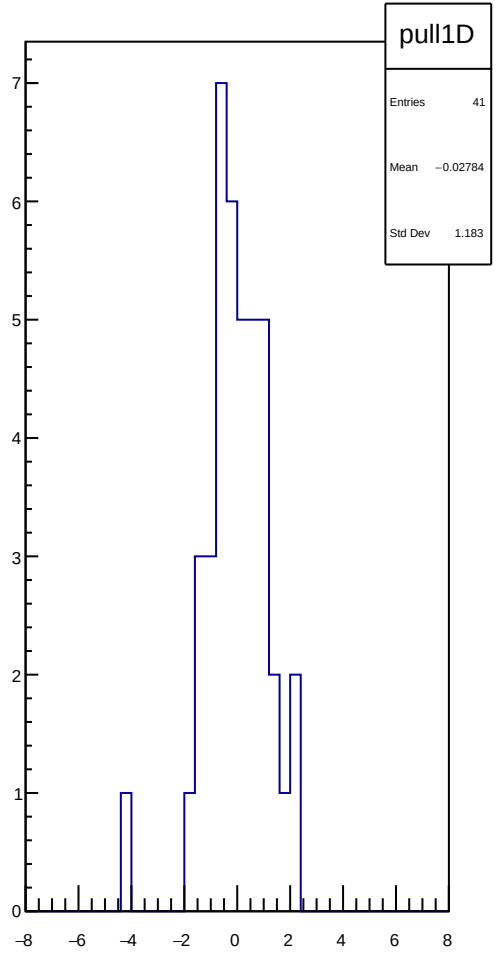
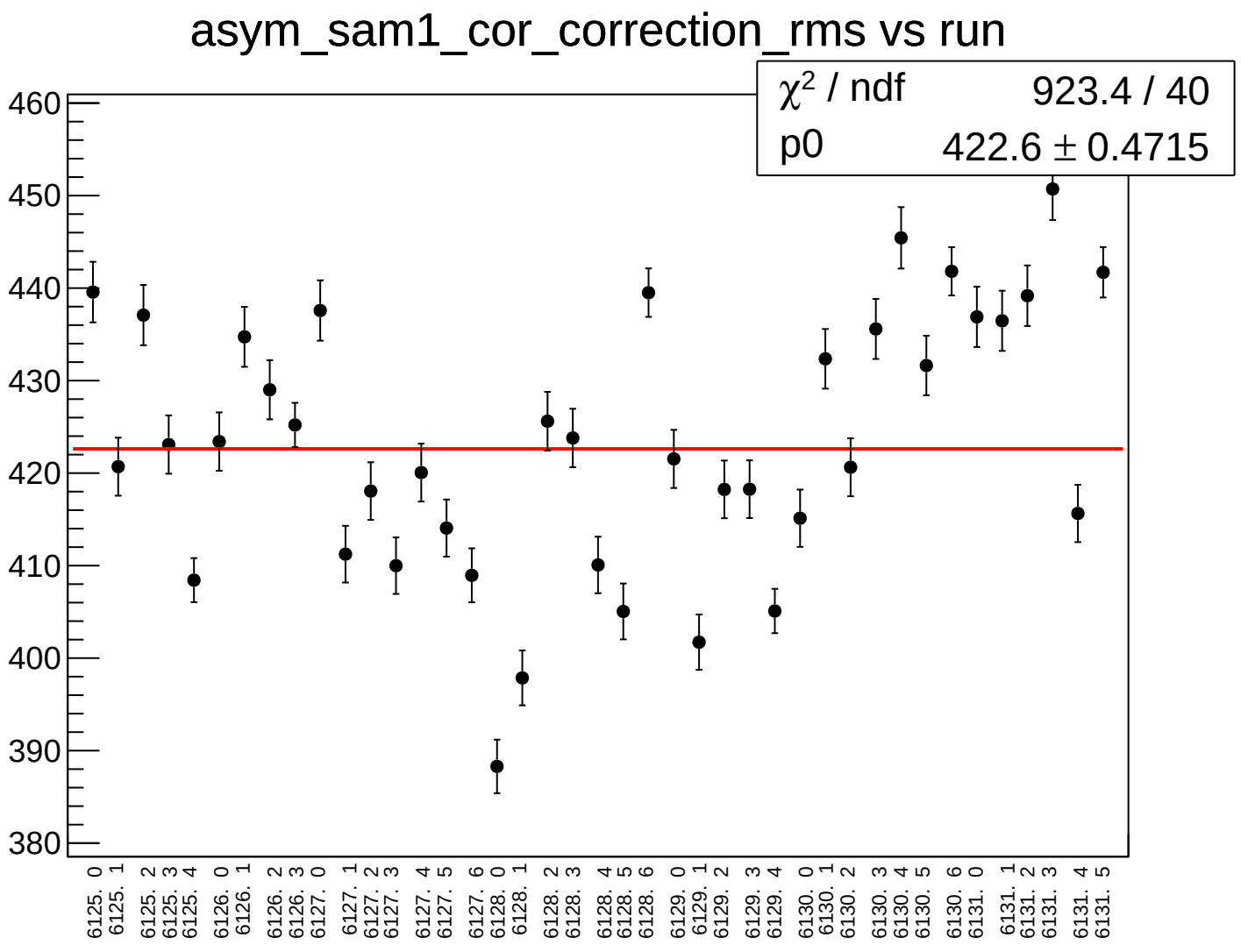
6131. 4
6131. 5


asym_sam1_cor_correction_mean vs run
χ² / ndf 57.44 / 40
p0 −296.1± 666.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −82.94
Std Dev 0
2
1
0
−1
−2
−3
−4


pull1D
Entries 41
Mean −0.02784
Std Dev 1.183
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_cor_correction_rms vs run
χ² / ndf 923.4 / 40
p0 422.6 ± 0.4715
460
450
440
430
420
410
400
390
380
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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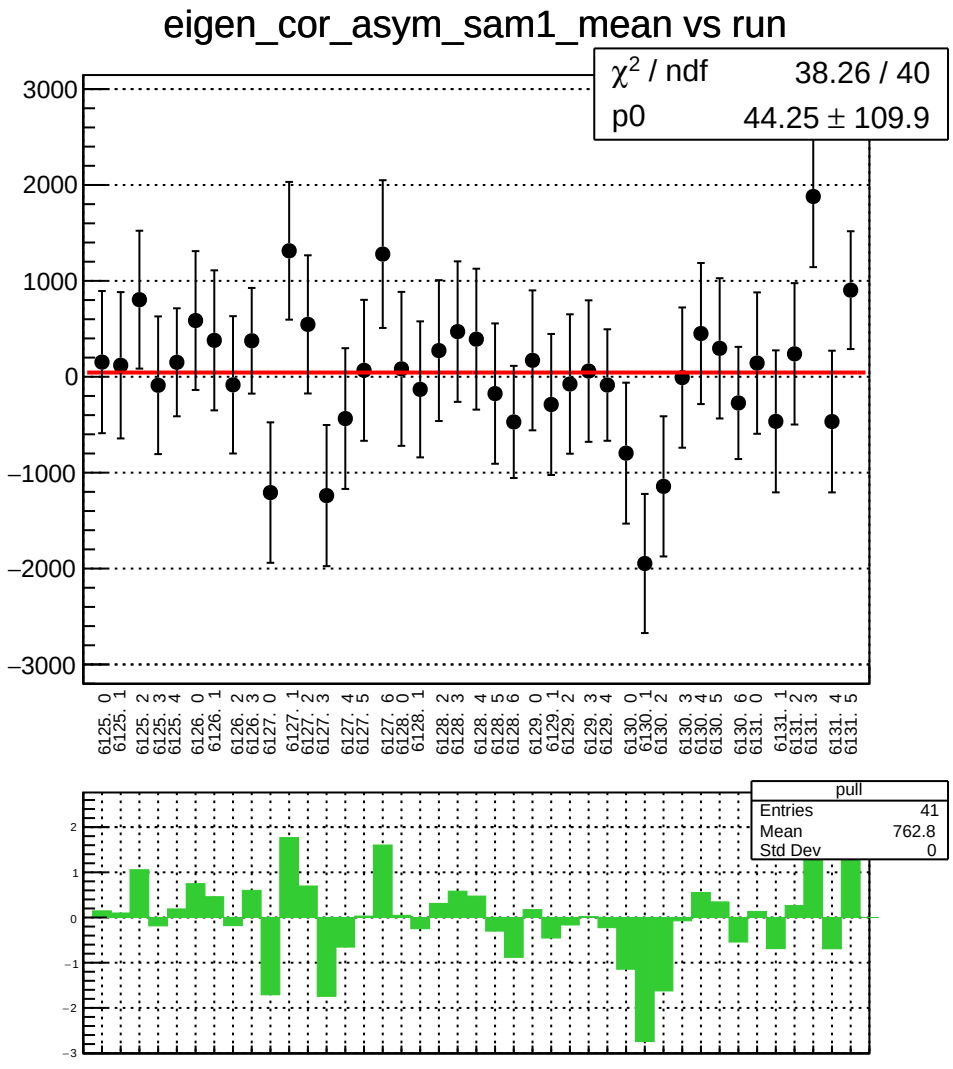
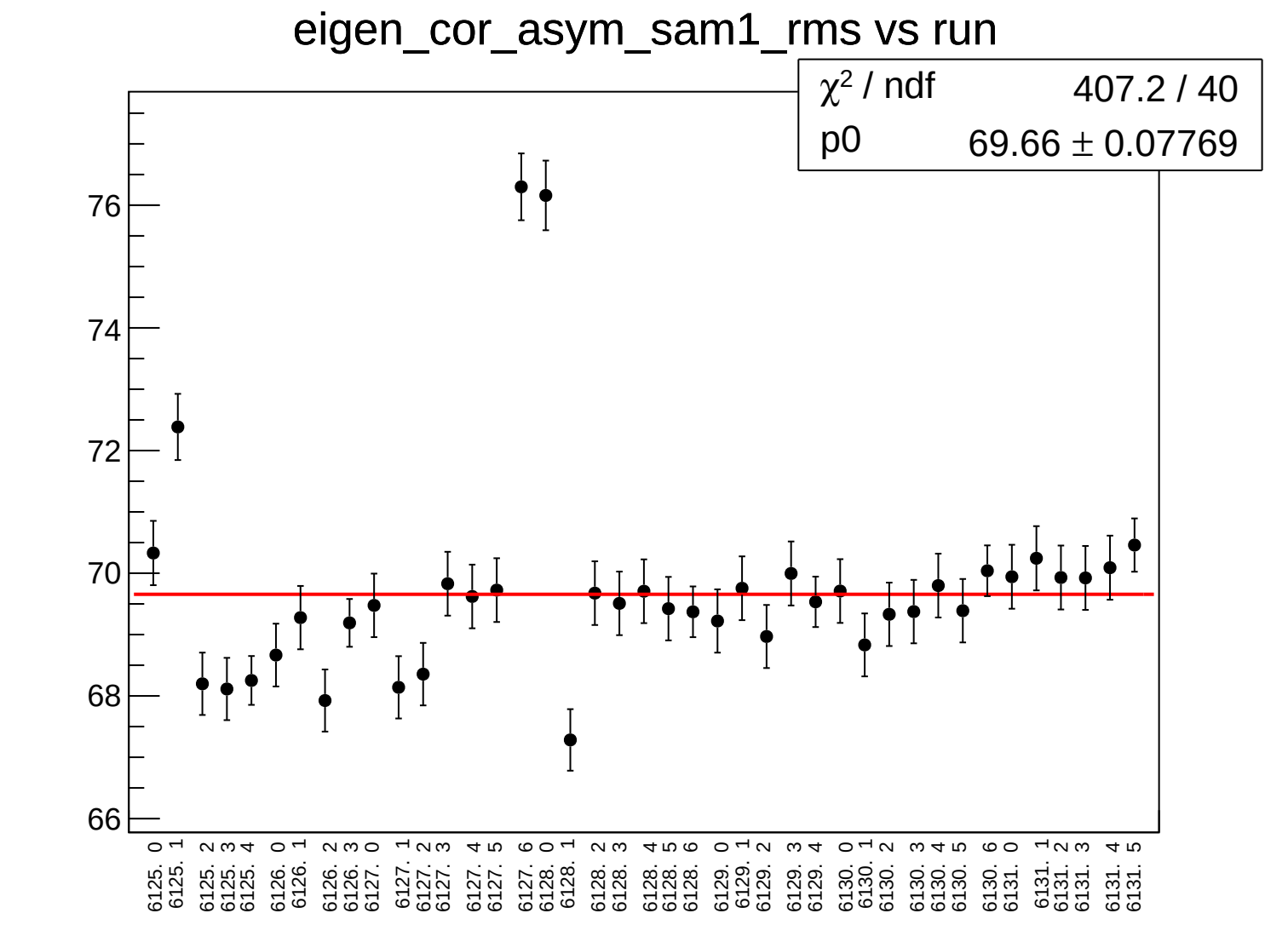
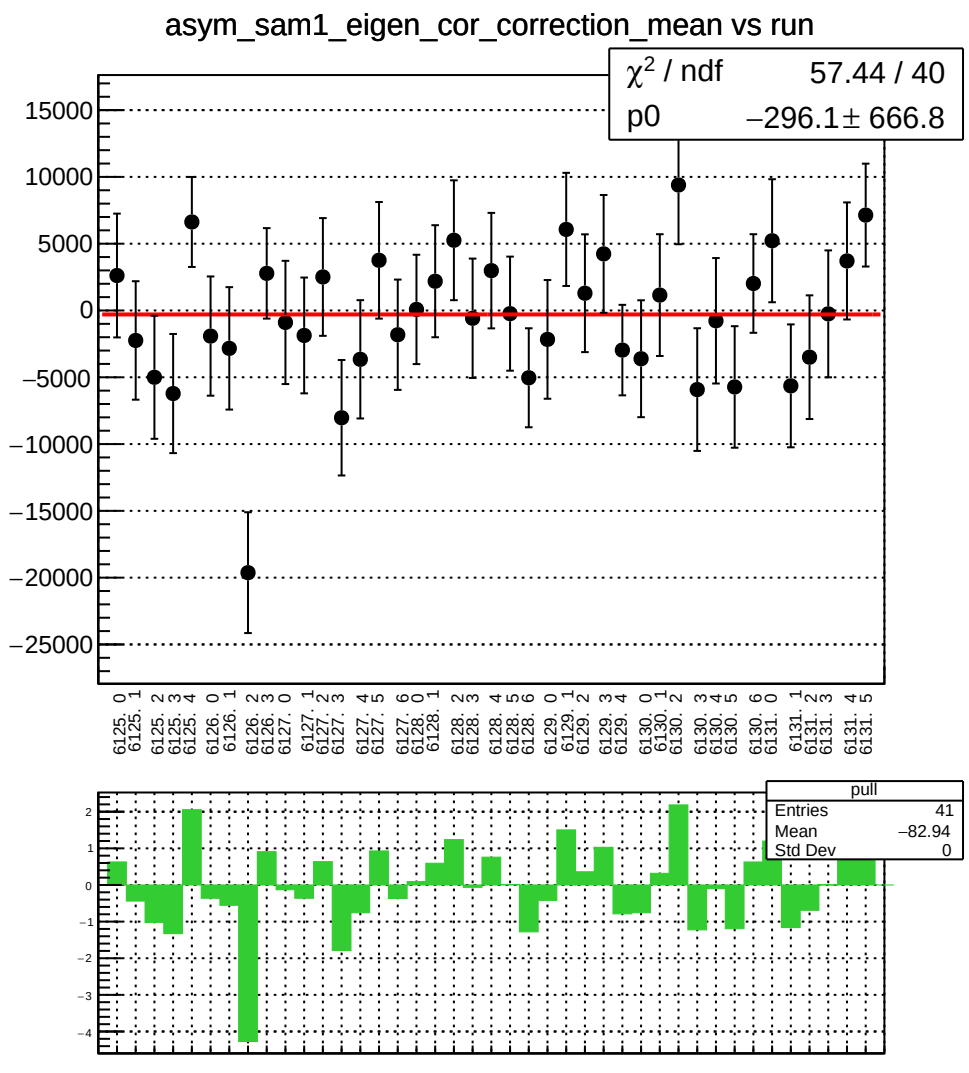
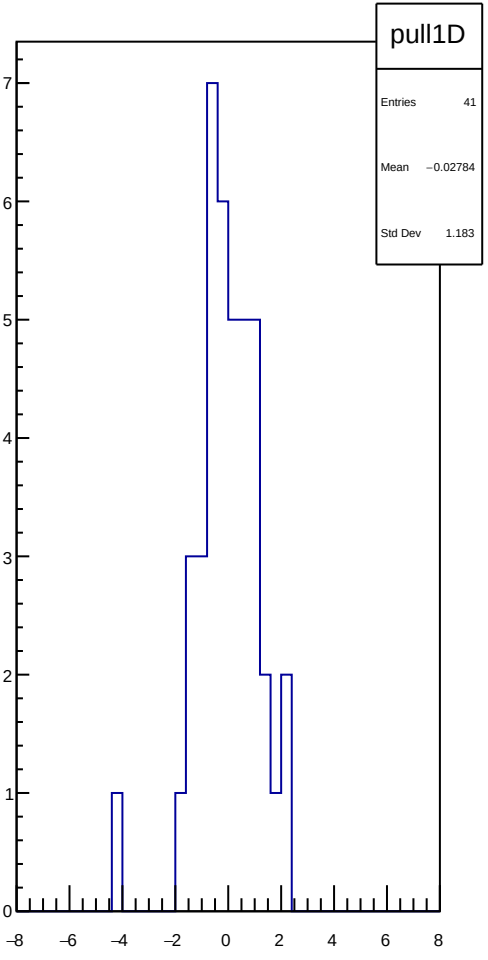
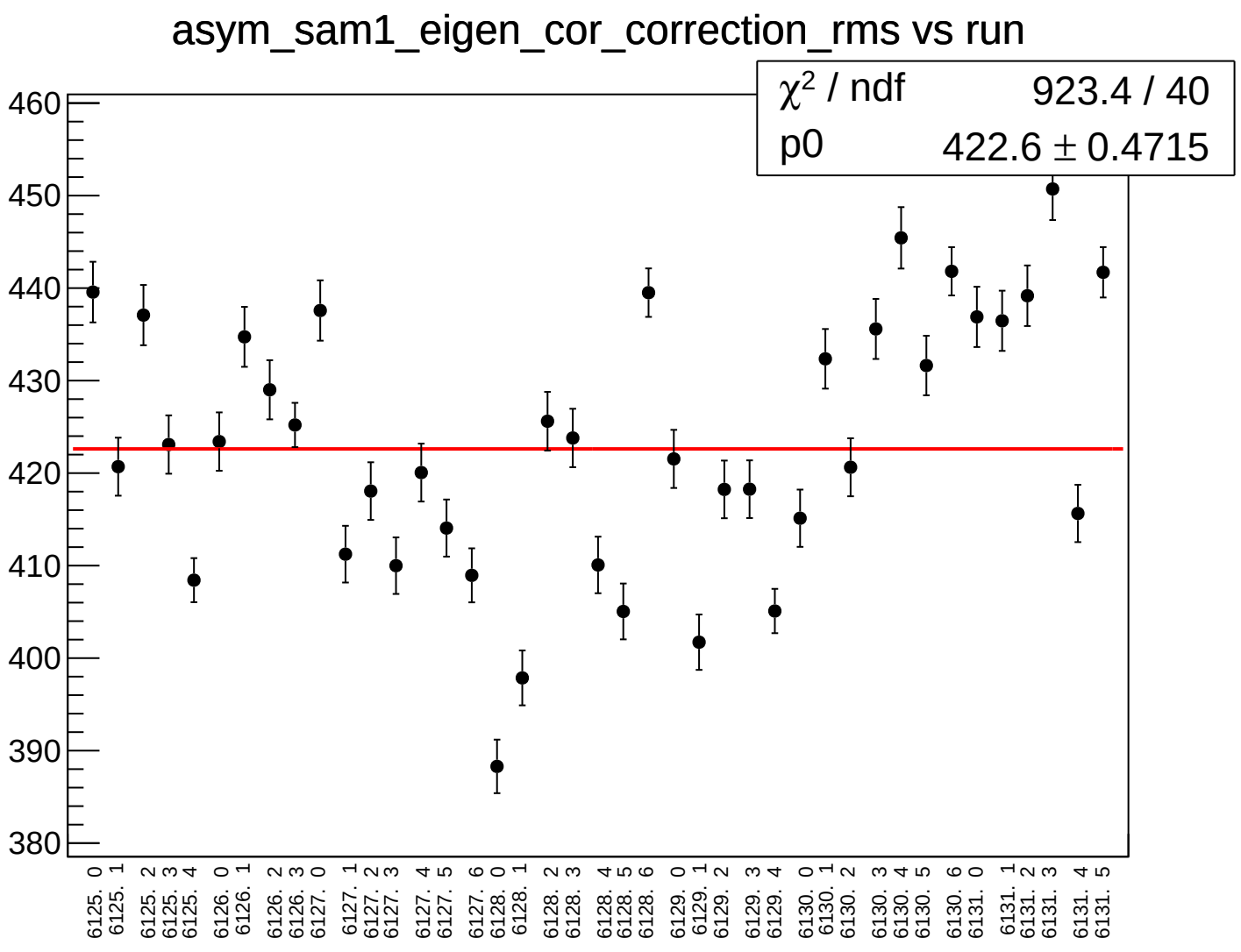
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_sam1_mean vs run
χ² / ndf 38.26 / 40
p0 44.25 ± 109.9
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 762.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean −0.001301
Std Dev 0.966
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam1_rms vs run
χ² / ndf 407.2 / 40
p0 69.66 ± 0.07769
76
74
72
70
68
66
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 57.44 / 40
p0 −296.1± 666.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −82.94
Std Dev 0
2
1
0
−1
−2
−3
−4


pull1D
Entries 41
Mean −0.02784
Std Dev 1.183
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 923.4 / 40
p0 422.6 ± 0.4715
460
450
440
430
420
410
400
390
380
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
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6126. 3
6127. 0
6127. 1
6127. 2
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6127. 5
6127. 6
6128. 0
6128. 1
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6129. 0
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6129. 2
6129. 3
6129. 4
6130. 0
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6130. 2
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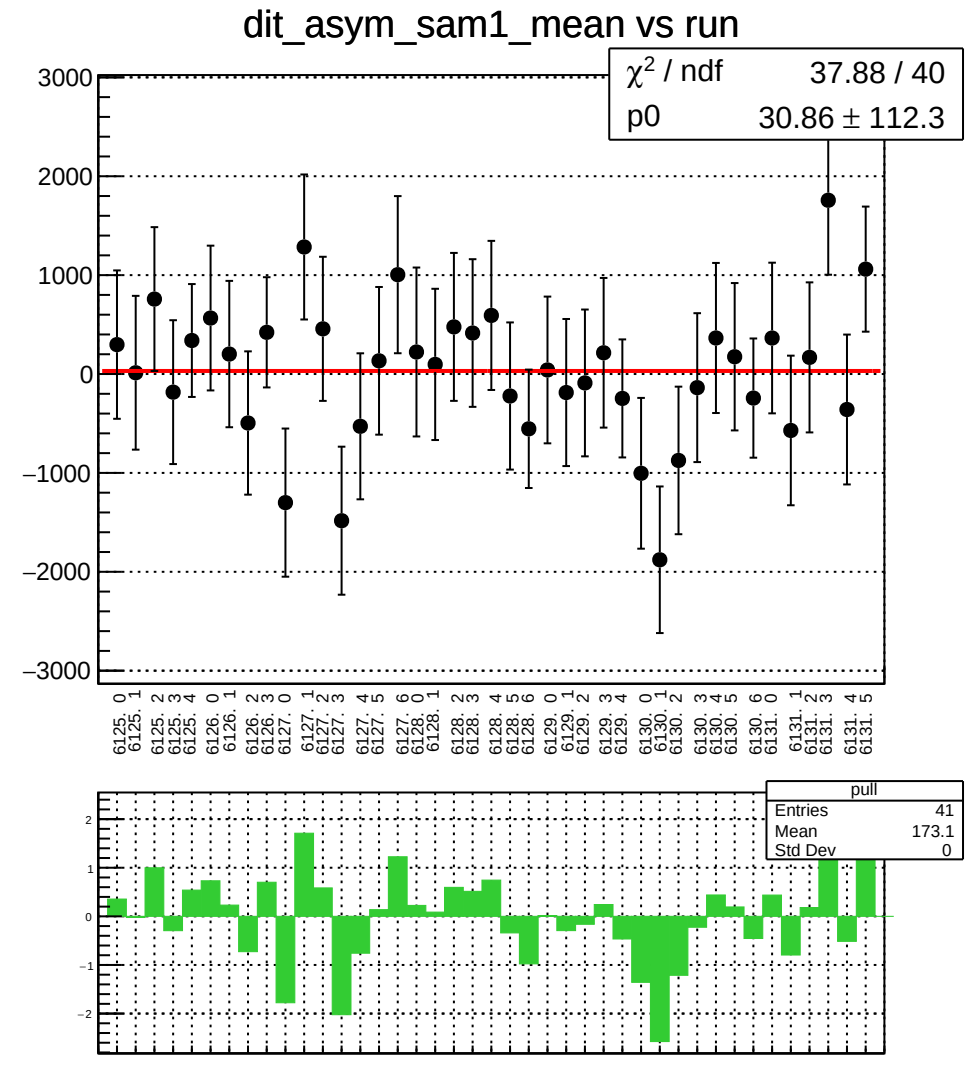
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


dit_asym_sam1_mean vs run
χ² / ndf 37.88 / 40
p0 30.86 ± 112.3
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
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6128. 4
6128. 5
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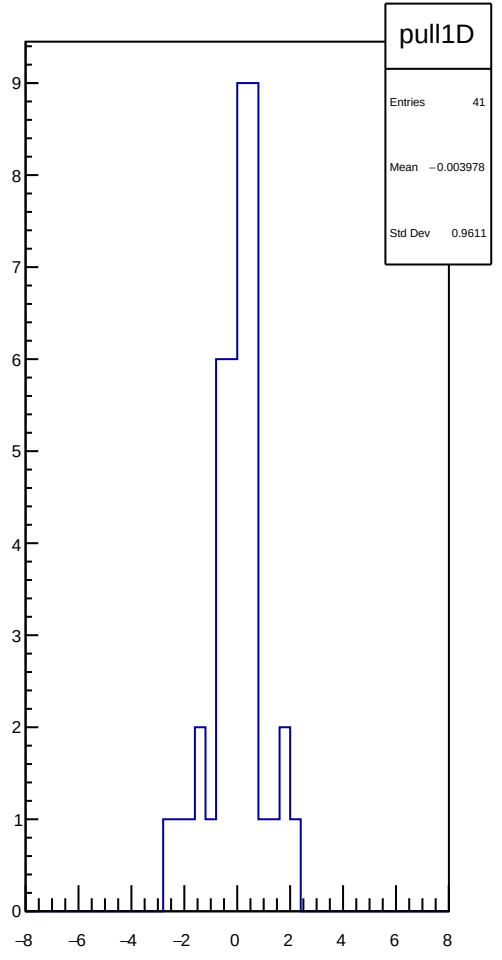
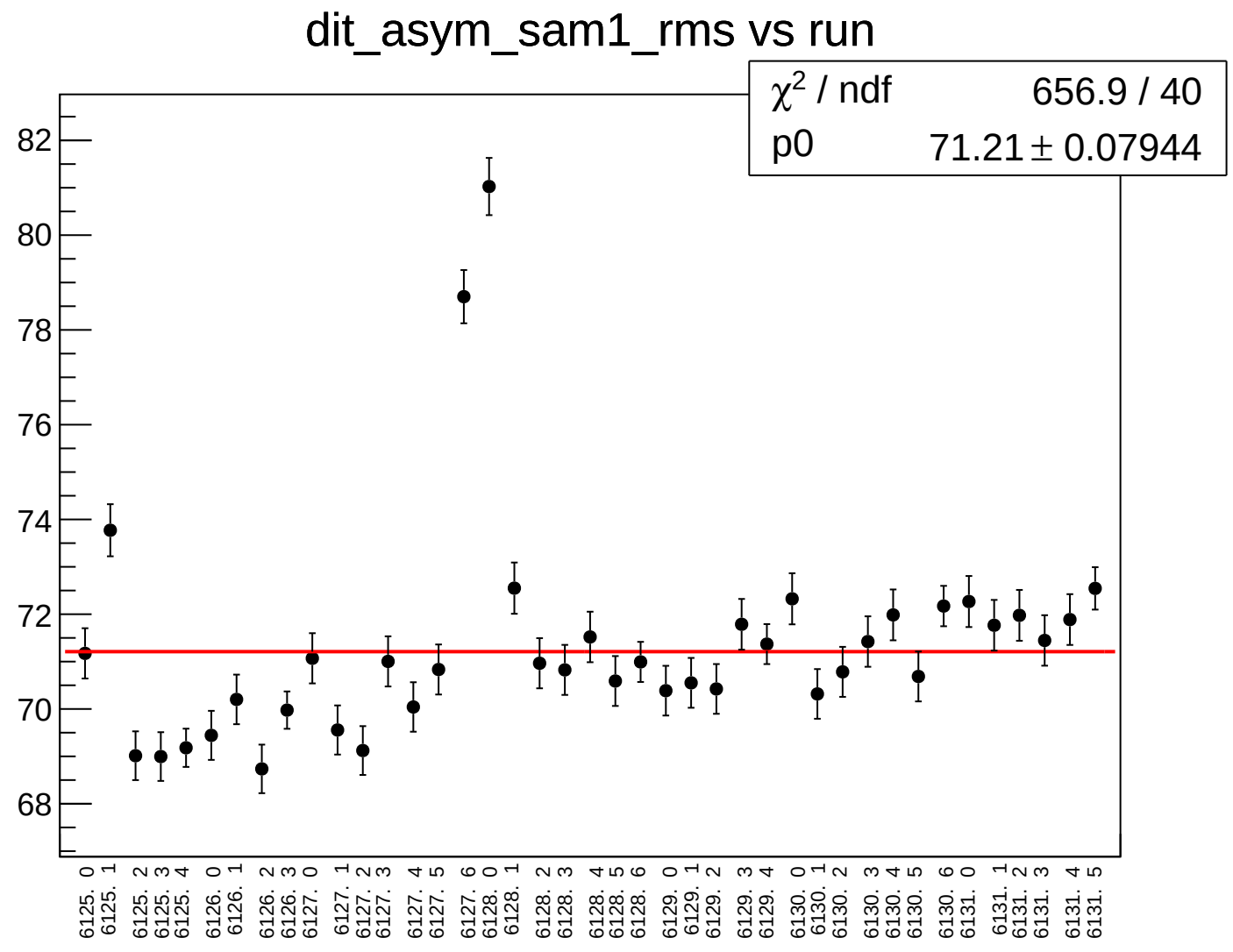
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 173.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.003978
Std Dev 0.9611
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam1_rms vs run
χ² / ndf 656.9 / 40
p0 71.21 ± 0.07944
82
80
78
76
74
72
70
68
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
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6127. 6
6128. 0
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6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
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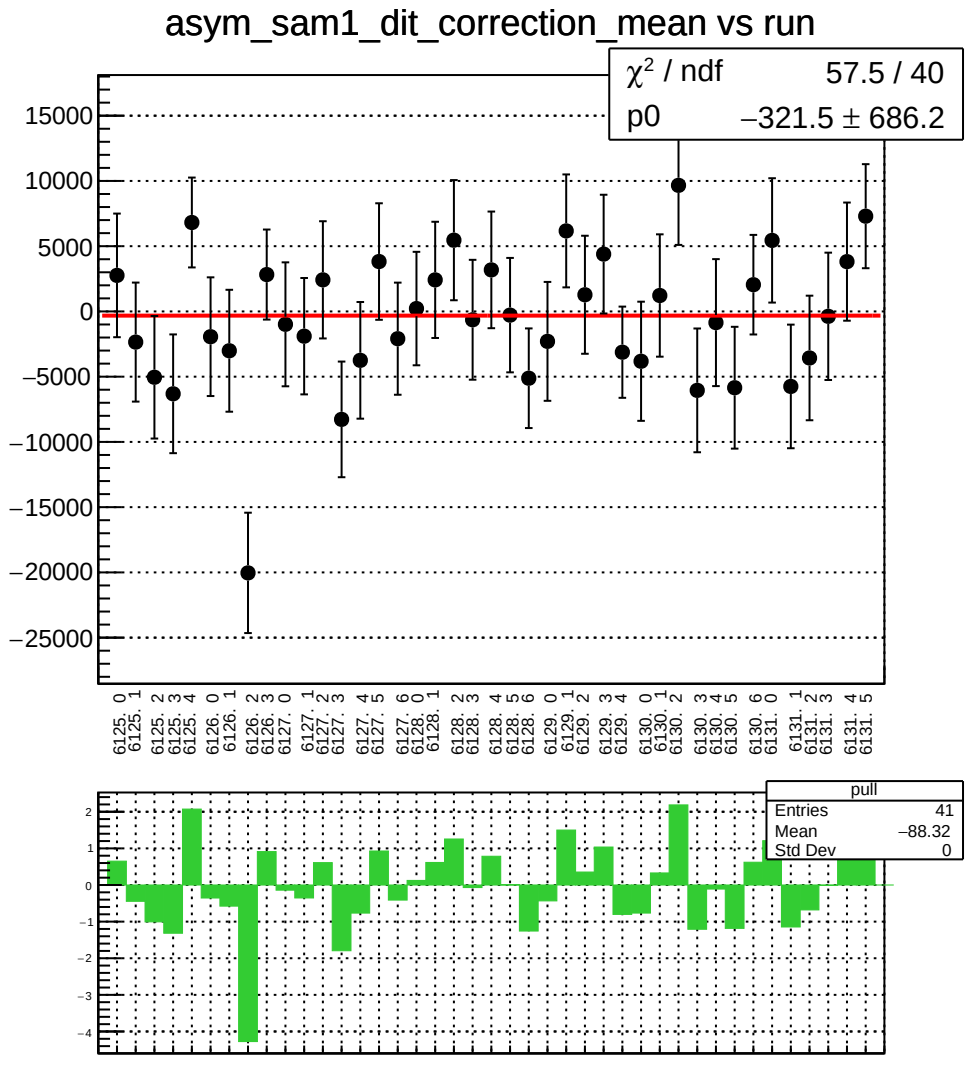
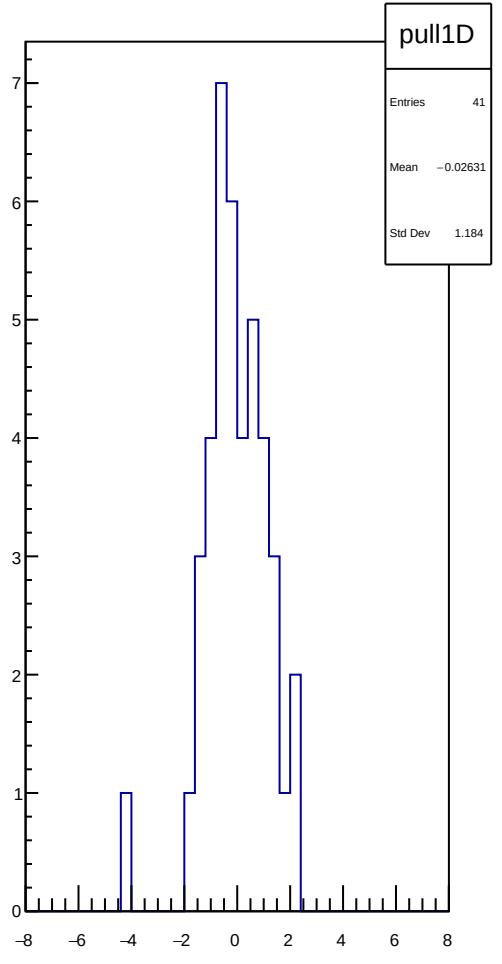
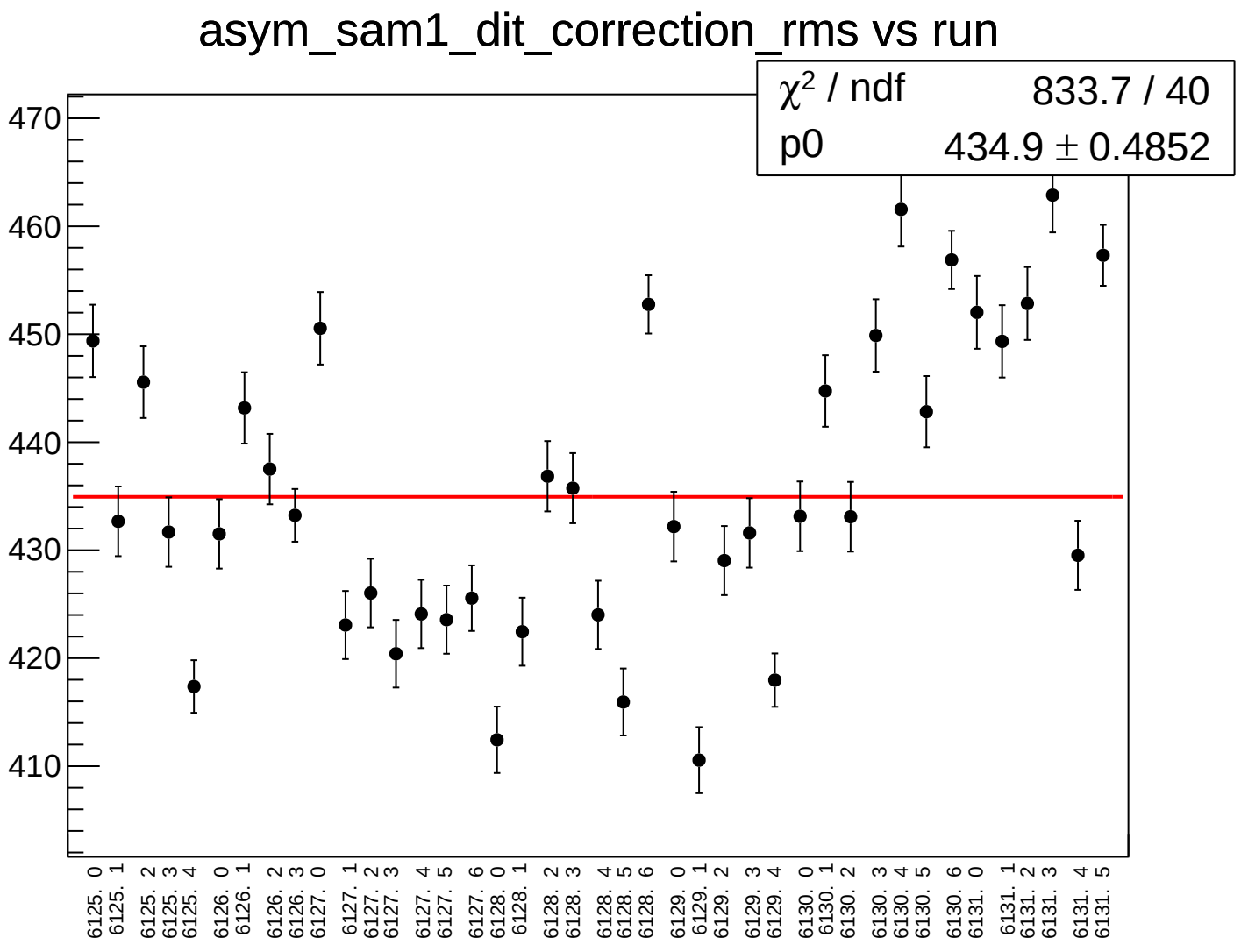
6131. 4
6131. 5


asym_sam1_dit_correction_mean vs run
χ² / ndf 57.5 / 40
p0 −321.5 ± 686.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −88.32
Std Dev 0
2
1
0
−1
−2
−3
−4


pull1D
Entries 41
Mean −0.02631
Std Dev 1.184
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_dit_correction_rms vs run
χ² / ndf 833.7 / 40
p0 434.9 ± 0.4852
470
460
450
440
430
420
410
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6127. 5
6127. 6
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6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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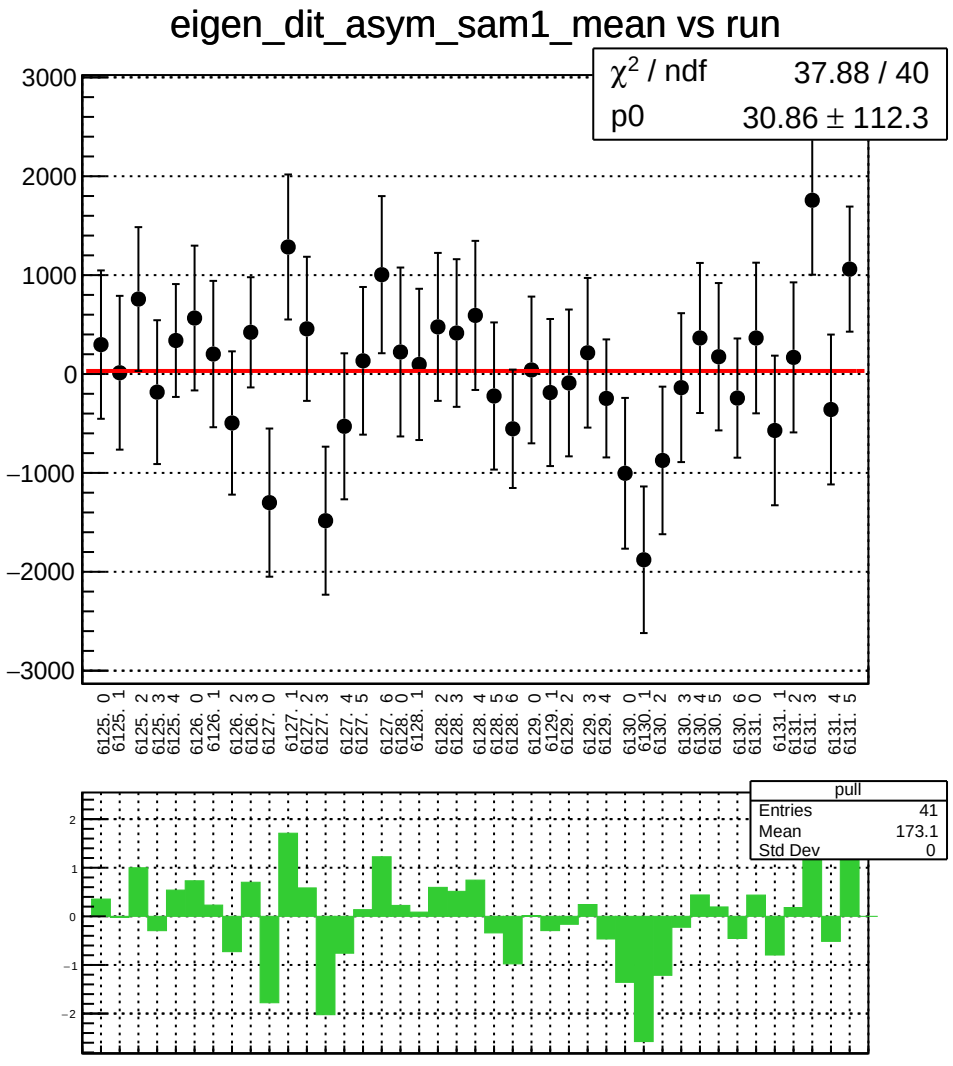
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_dit_asym_sam1_mean vs run
χ² / ndf 37.88 / 40
p0 30.86 ± 112.3
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
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6130. 1
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6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
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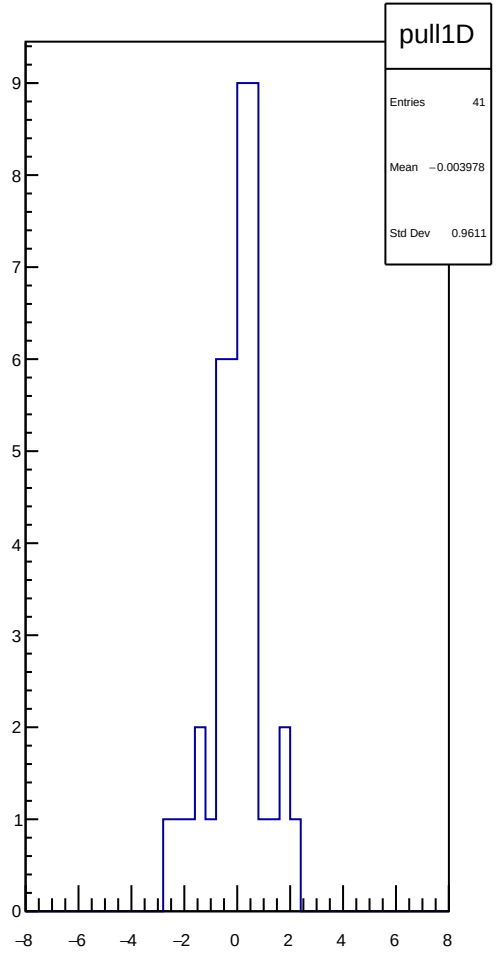
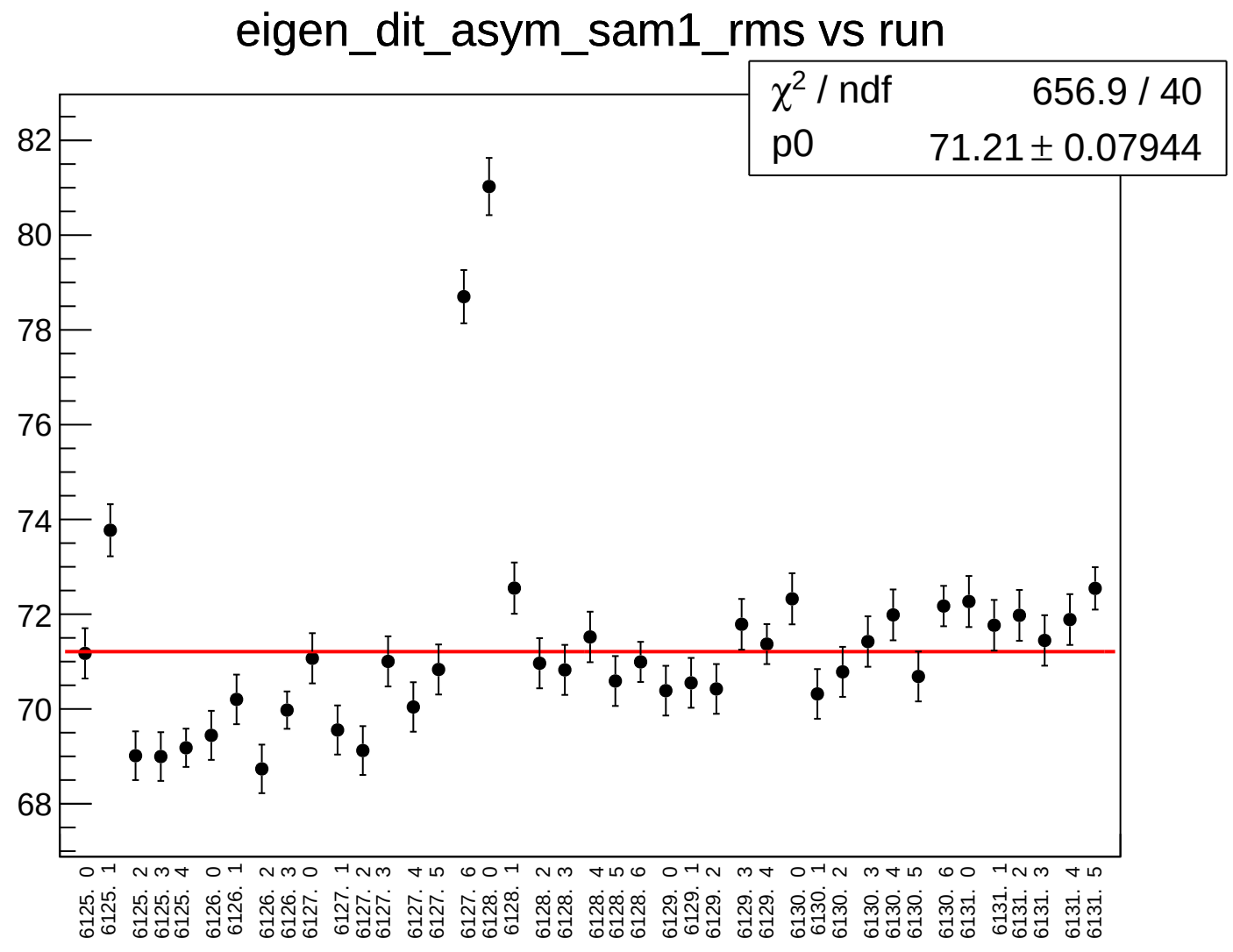
6131. 4
6131. 5
pull
Entries 41
Mean 173.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.003978
Std Dev 0.9611
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam1_rms vs run
χ² / ndf 656.9 / 40
p0 71.21 ± 0.07944
82
80
78
76
74
72
70
68
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
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6130. 0
6130. 1
6130. 2
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6130. 4
6130. 5
6130. 6
6131. 0
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6131. 2
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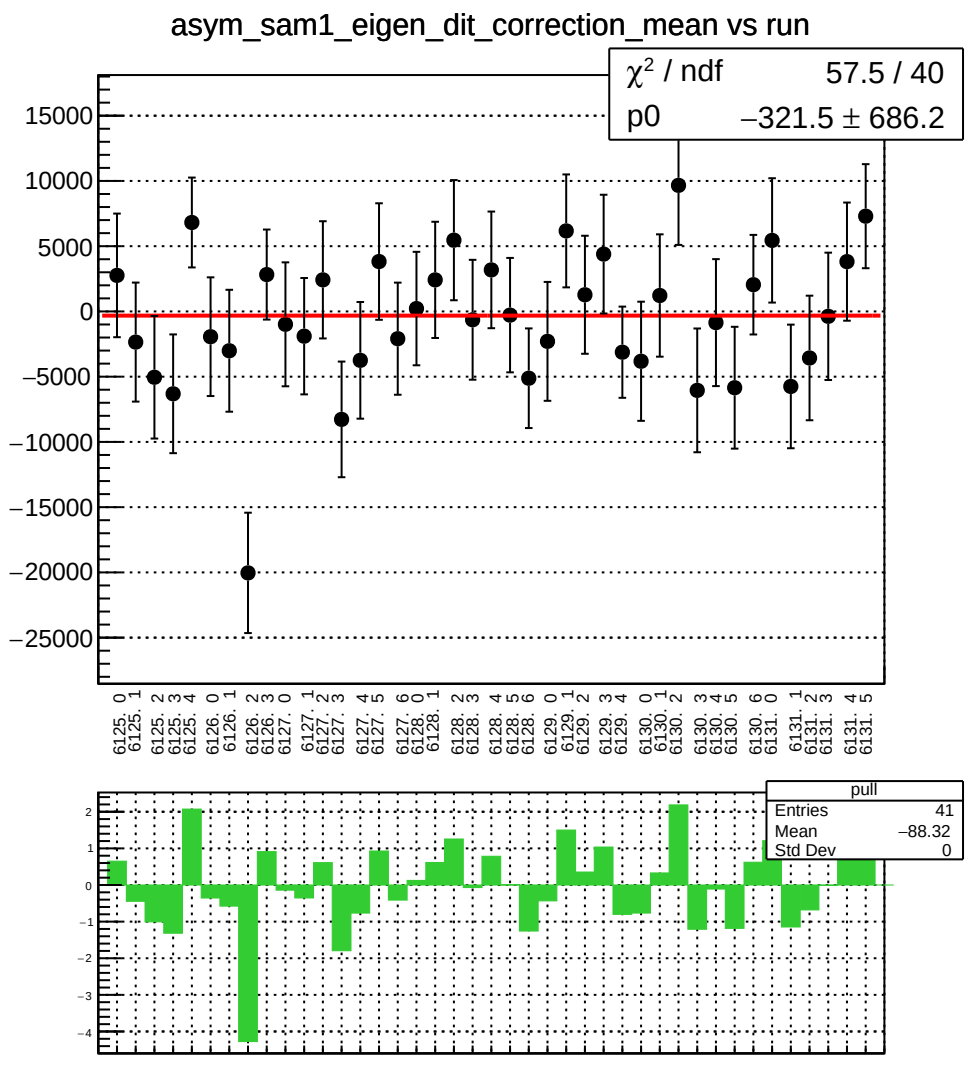
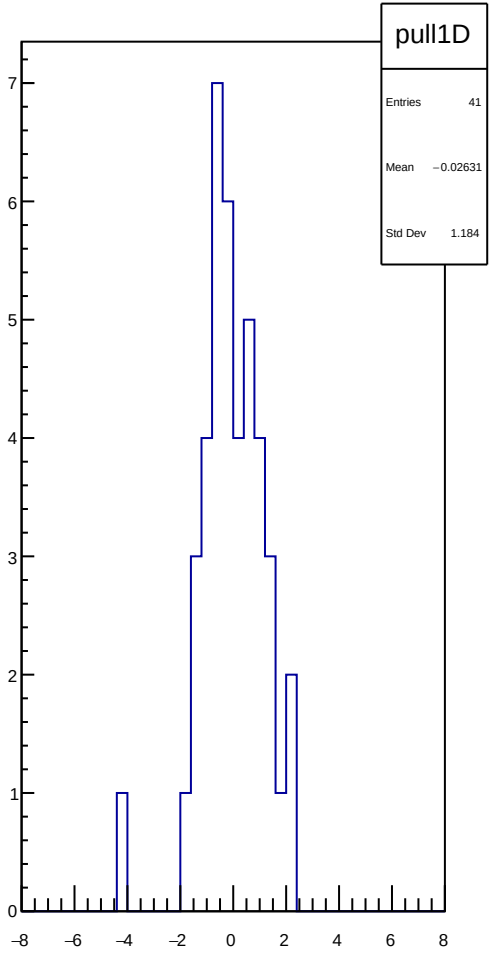
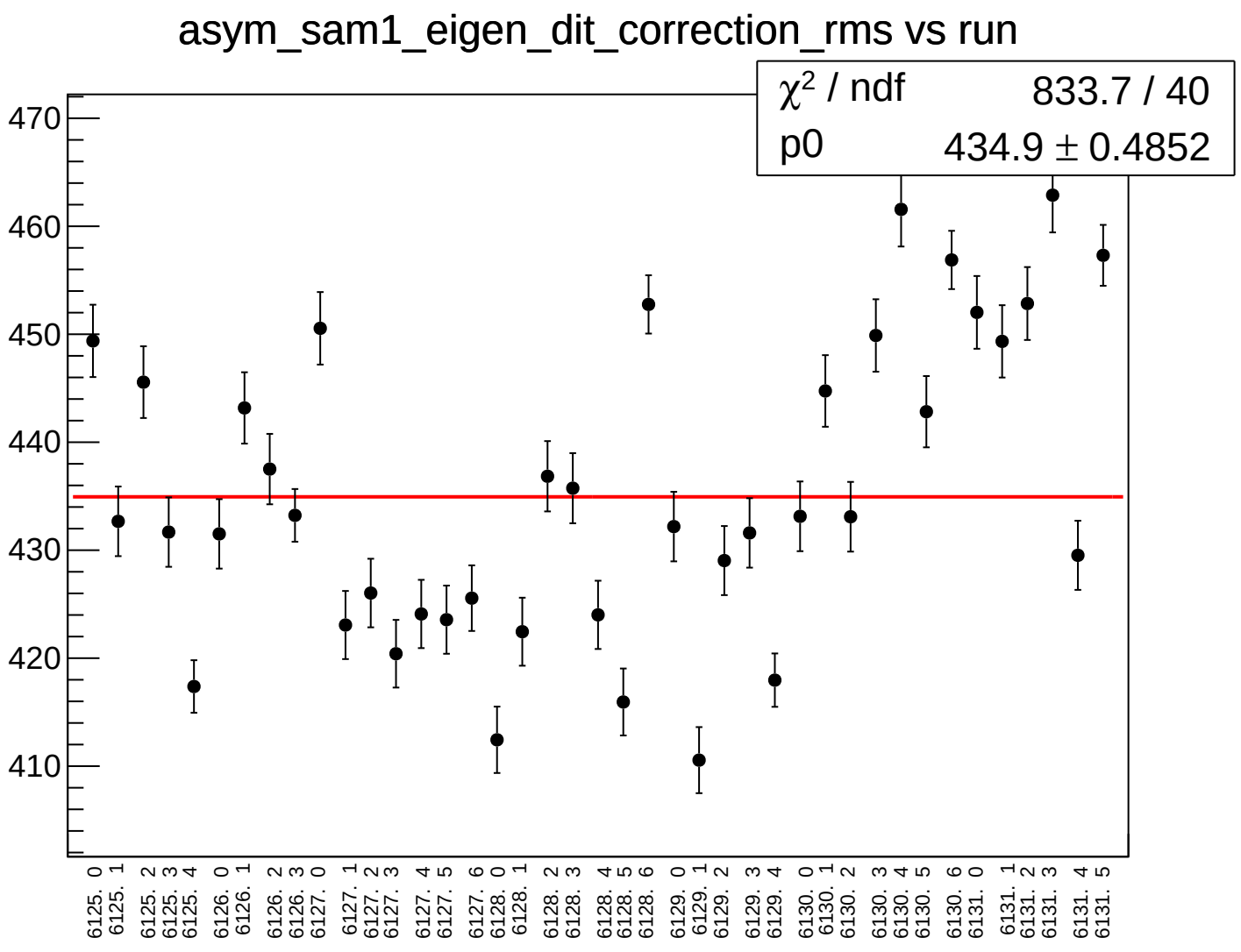
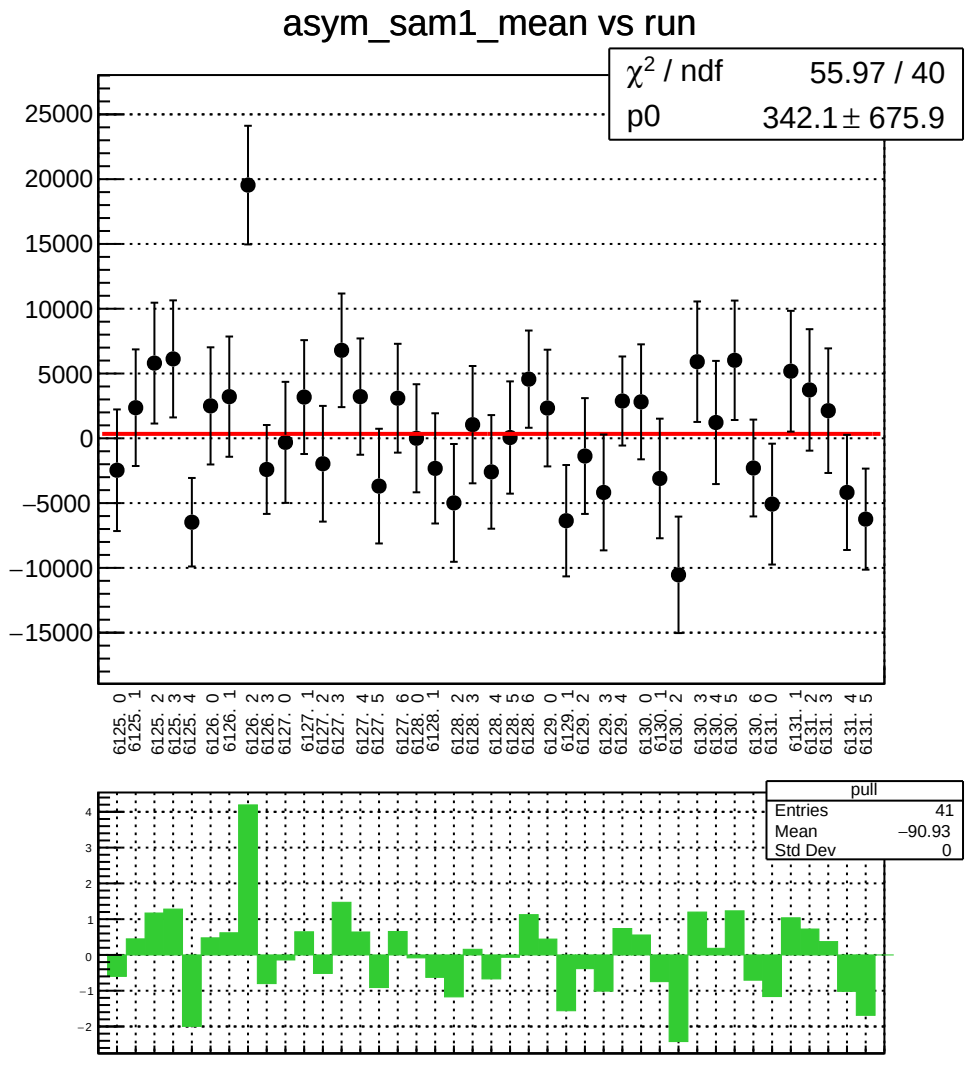
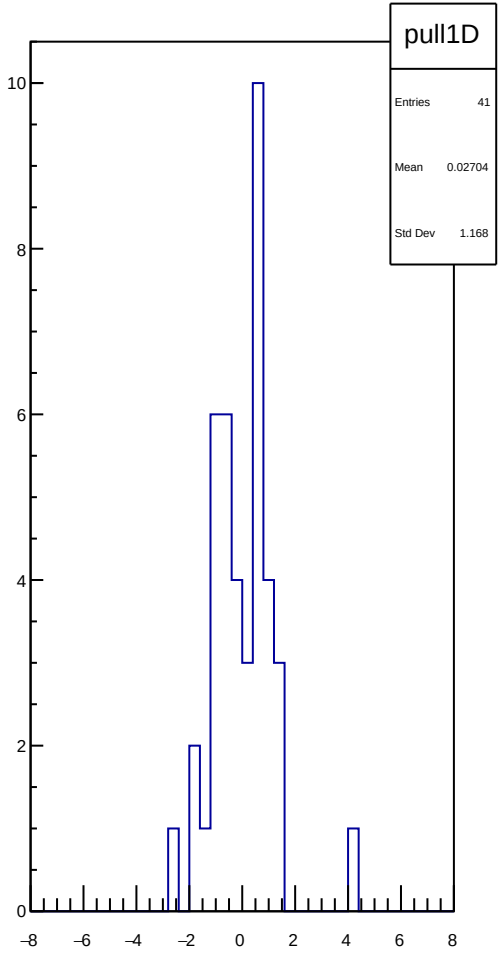
6131. 5

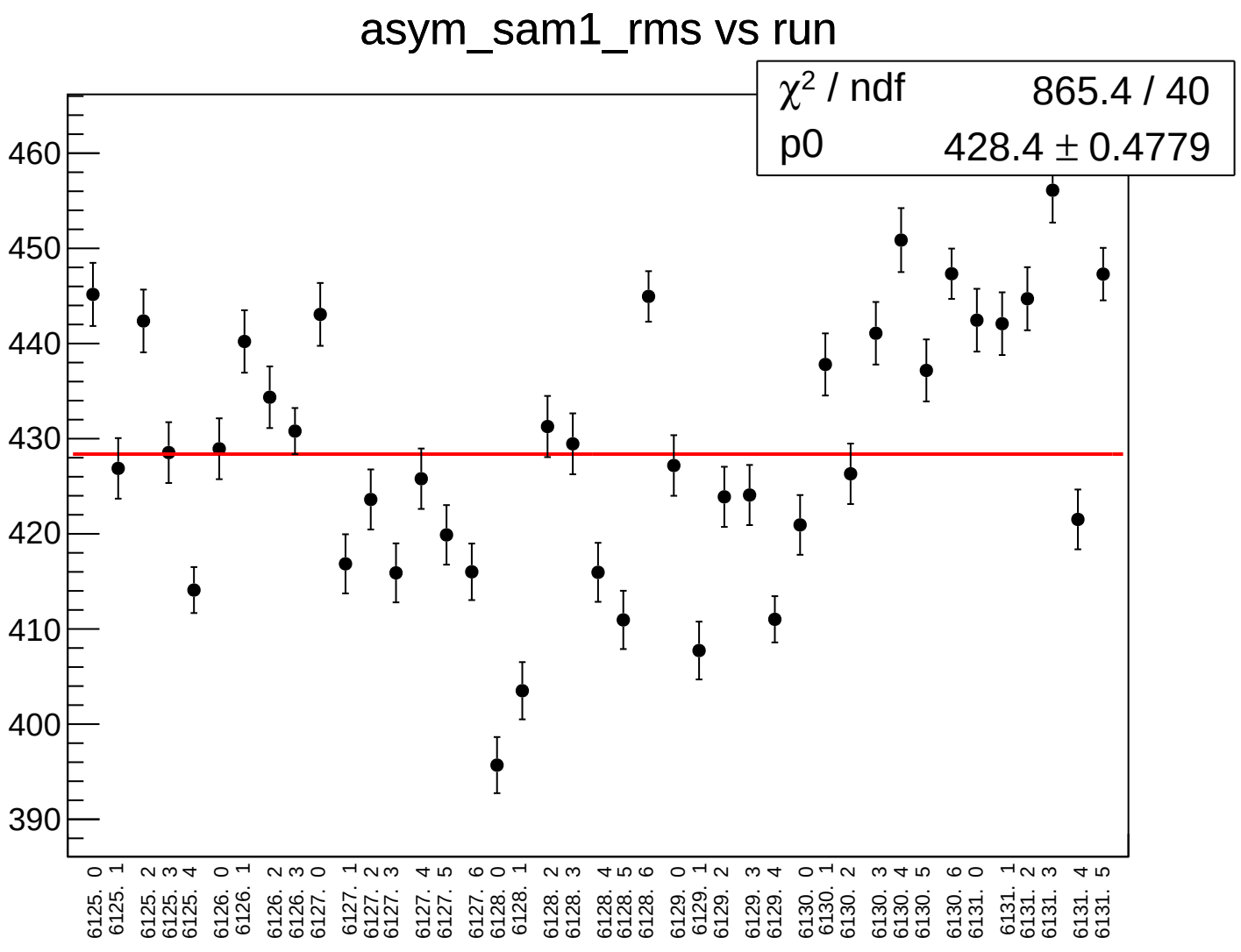

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 57.5 / 40
p0 −321.5 ± 686.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −88.32
Std Dev 0
2
1
0
−1
−2
−3
−4

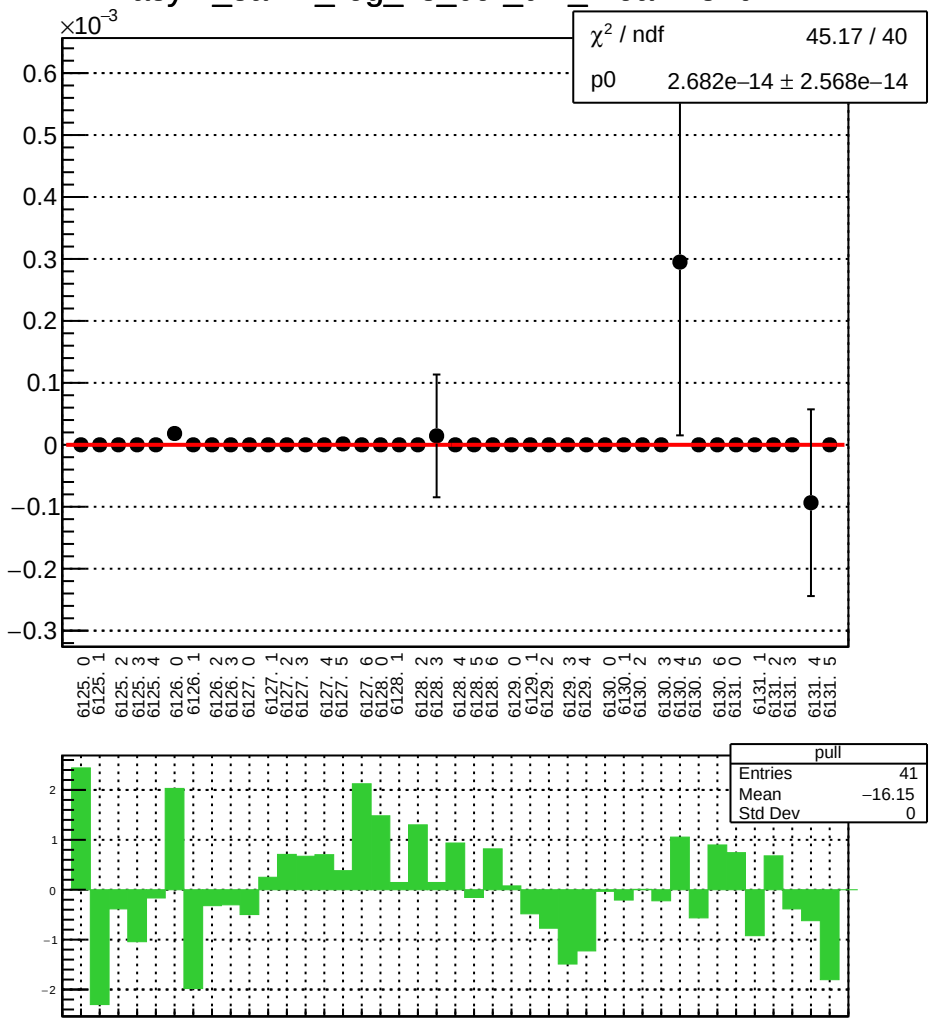

pull1D
Entries 41
Mean −0.02631
Std Dev 1.184
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

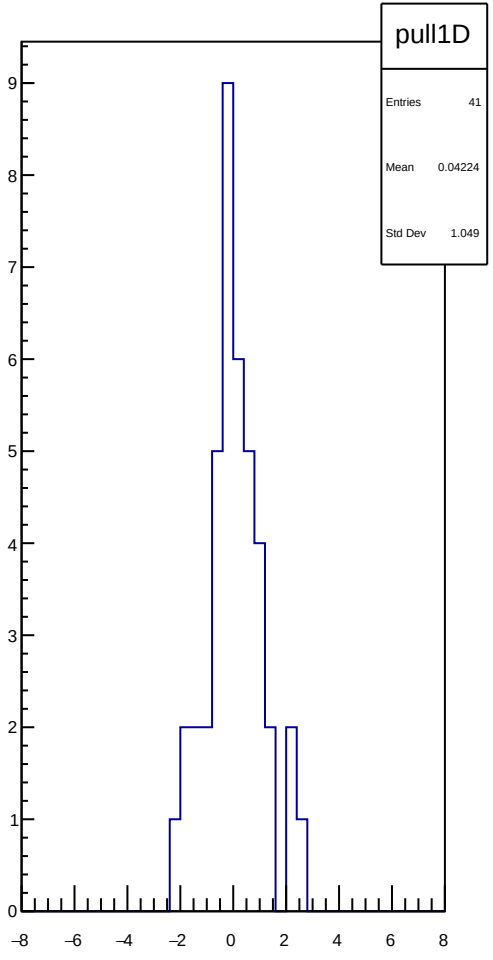

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 833.7 / 40
p0 434.9 ± 0.4852
470
460
450
440
430
420
410
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

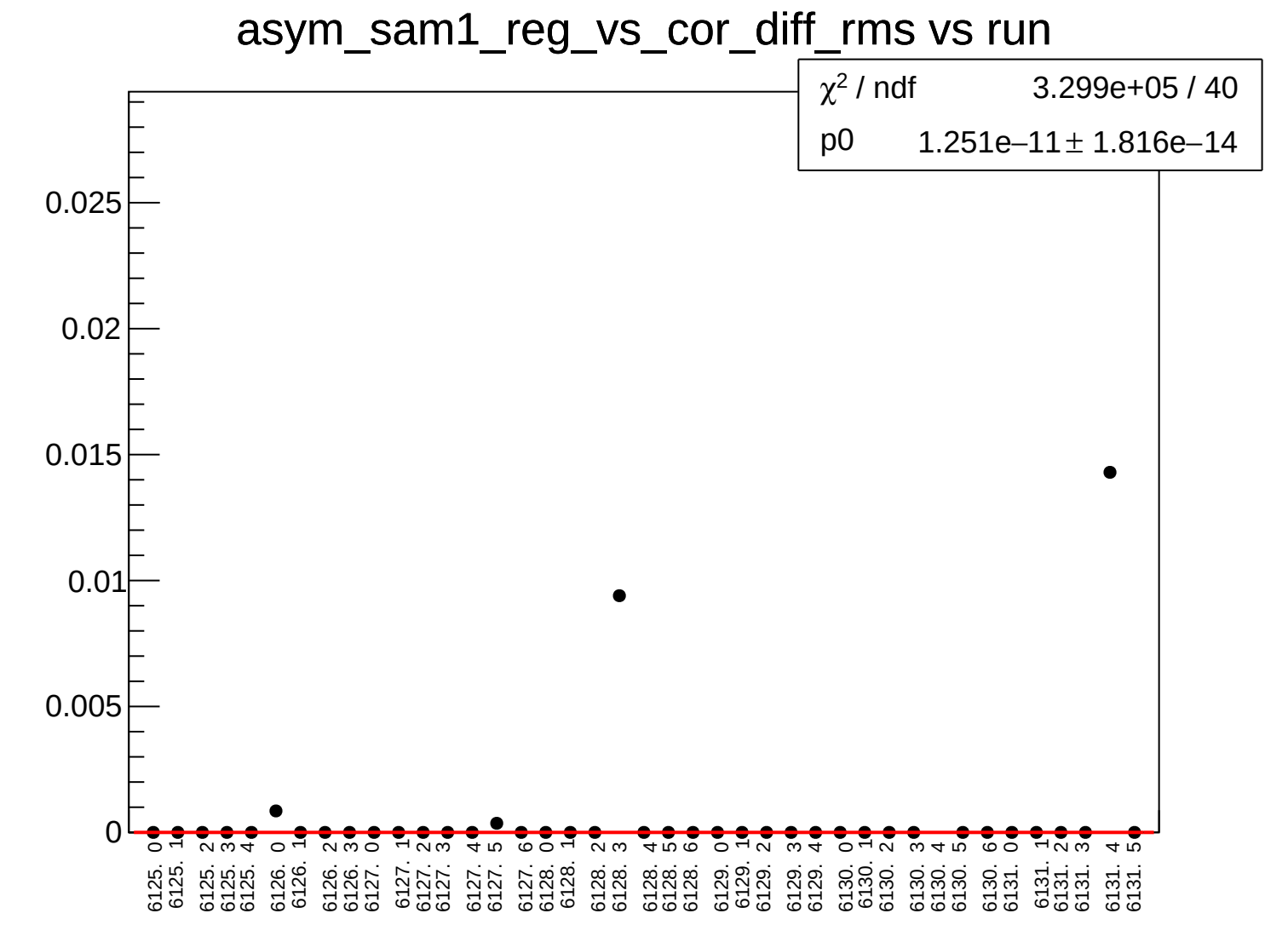

asym_sam1_mean vs run
χ² / ndf 55.97 / 40
p0 342.1 ± 675.9
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −90.93
Std Dev 0
4
3
2
1
0
−1
−2

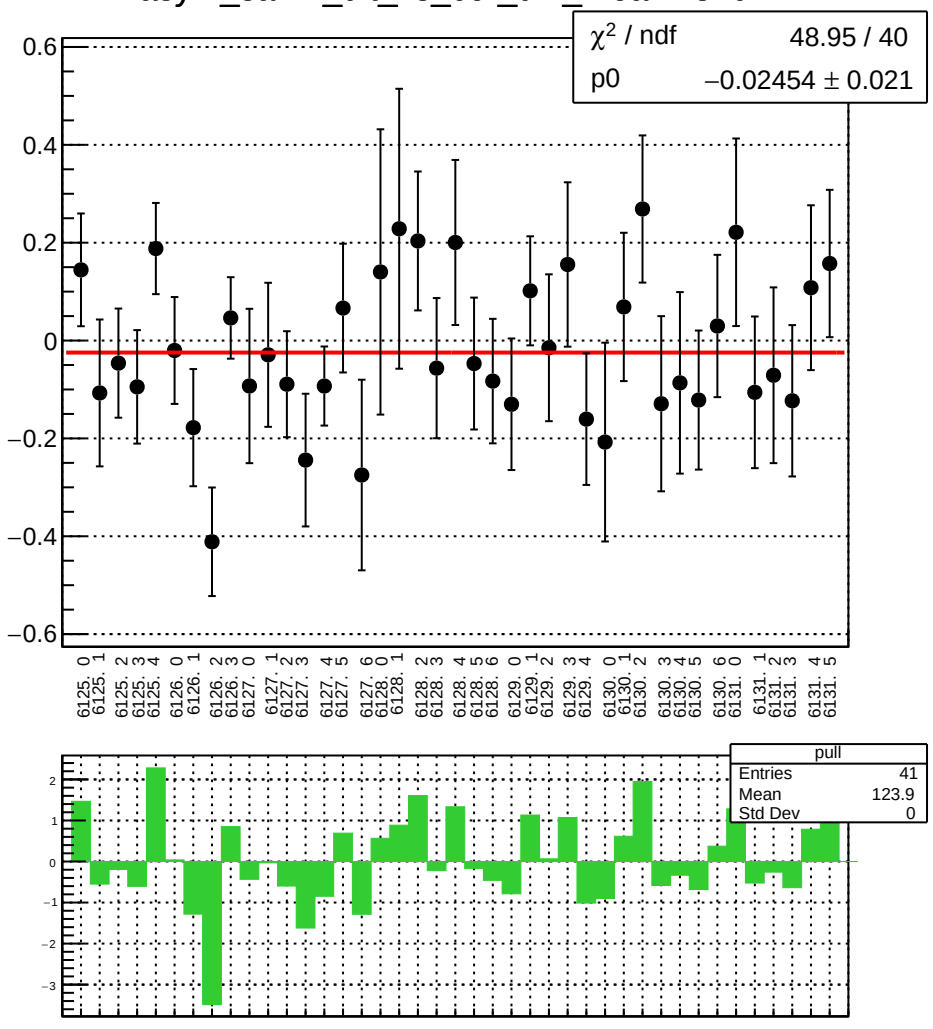

pull1D
Entries 41
Mean 0.02704
Std Dev 1.168
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

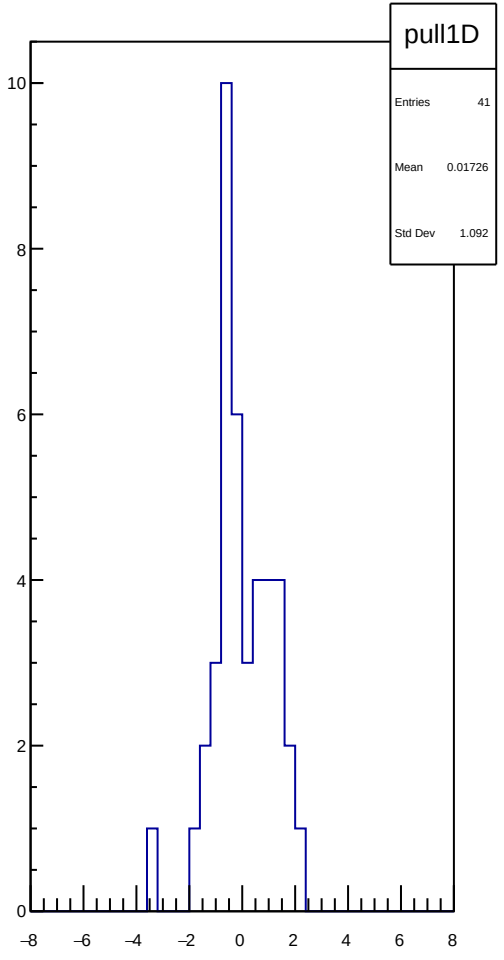

asym_sam1_rms vs run
χ² / ndf 865.4 / 40
p0 428.4 ± 0.4779
460
450
440
430
420
410
400
390
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

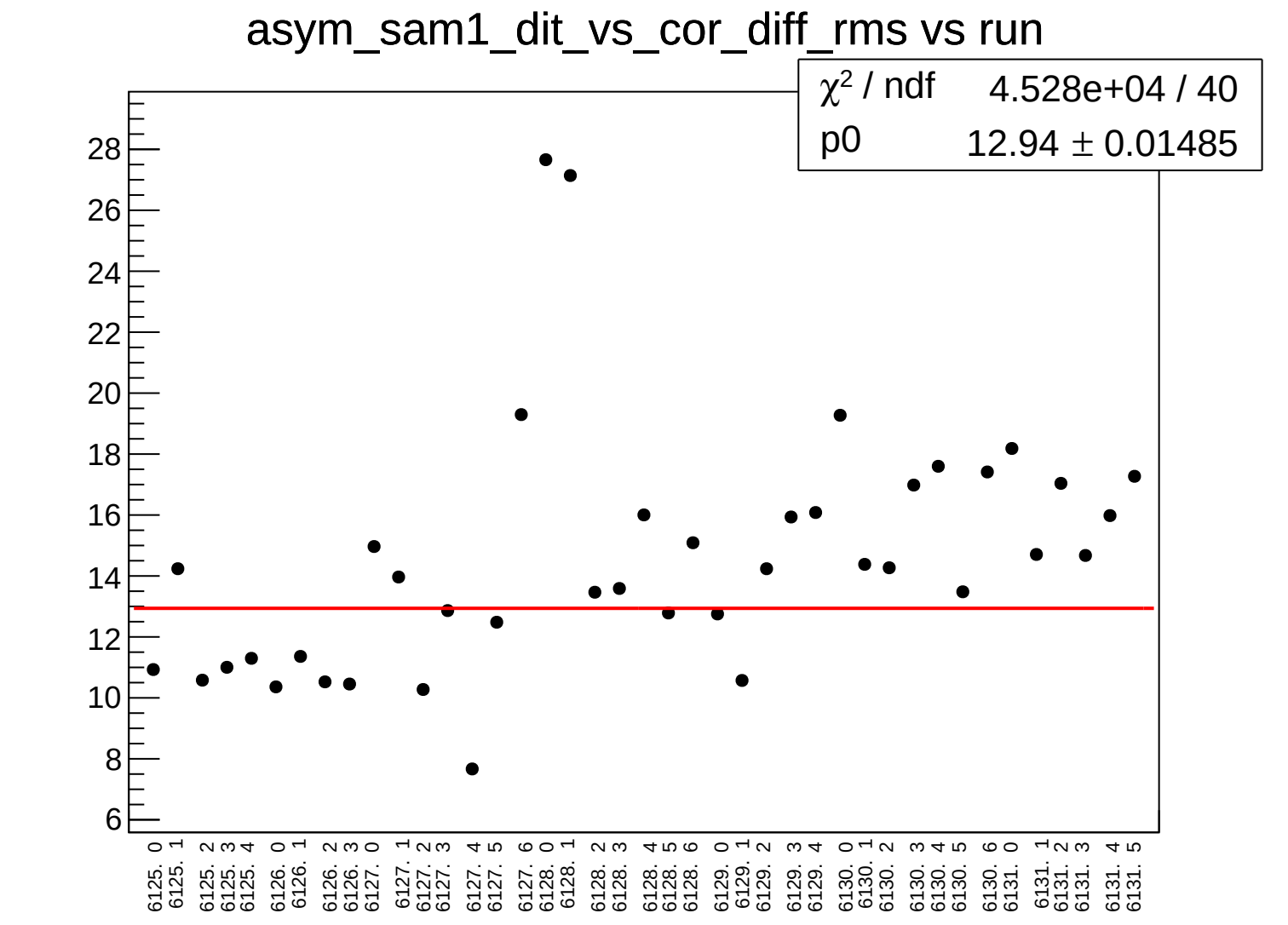

asym_sam1_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 45.17 / 40
p0 2.682e−14 ± 2.568e−14
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −16.15
Std Dev 0
2
1
0
−1
−2

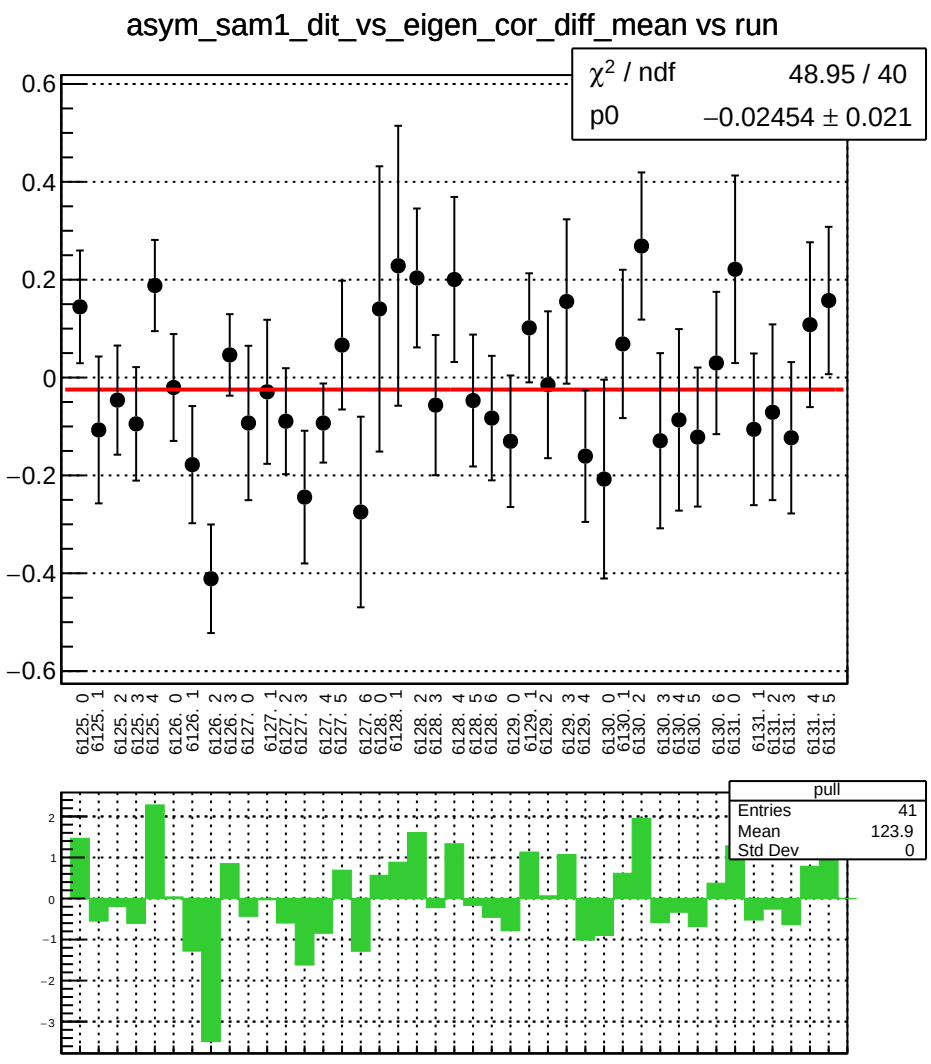

pull1D
Entries 41
Mean 0.04224
Std Dev 1.049
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

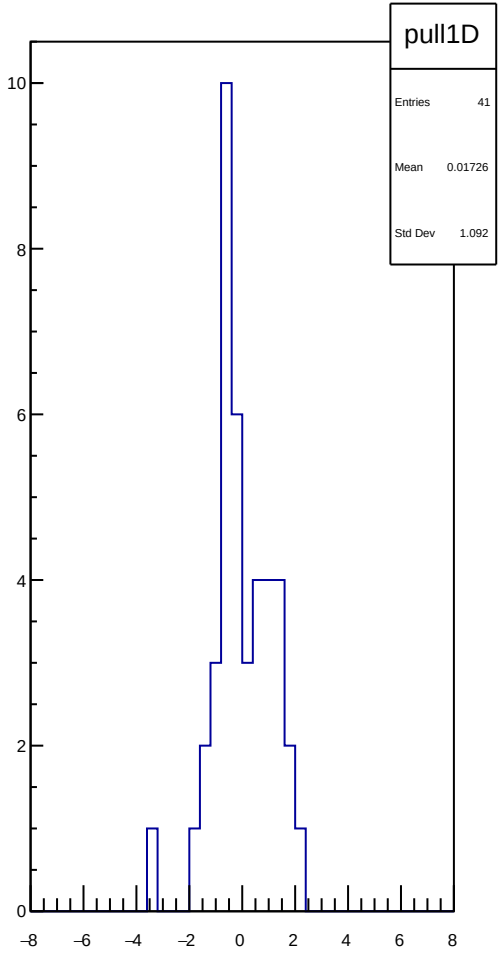

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 3.299e+05 / 40
p0 1.251e−11 ± 1.816e−14
0.025
0.02
0.015
0.01
0.005
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

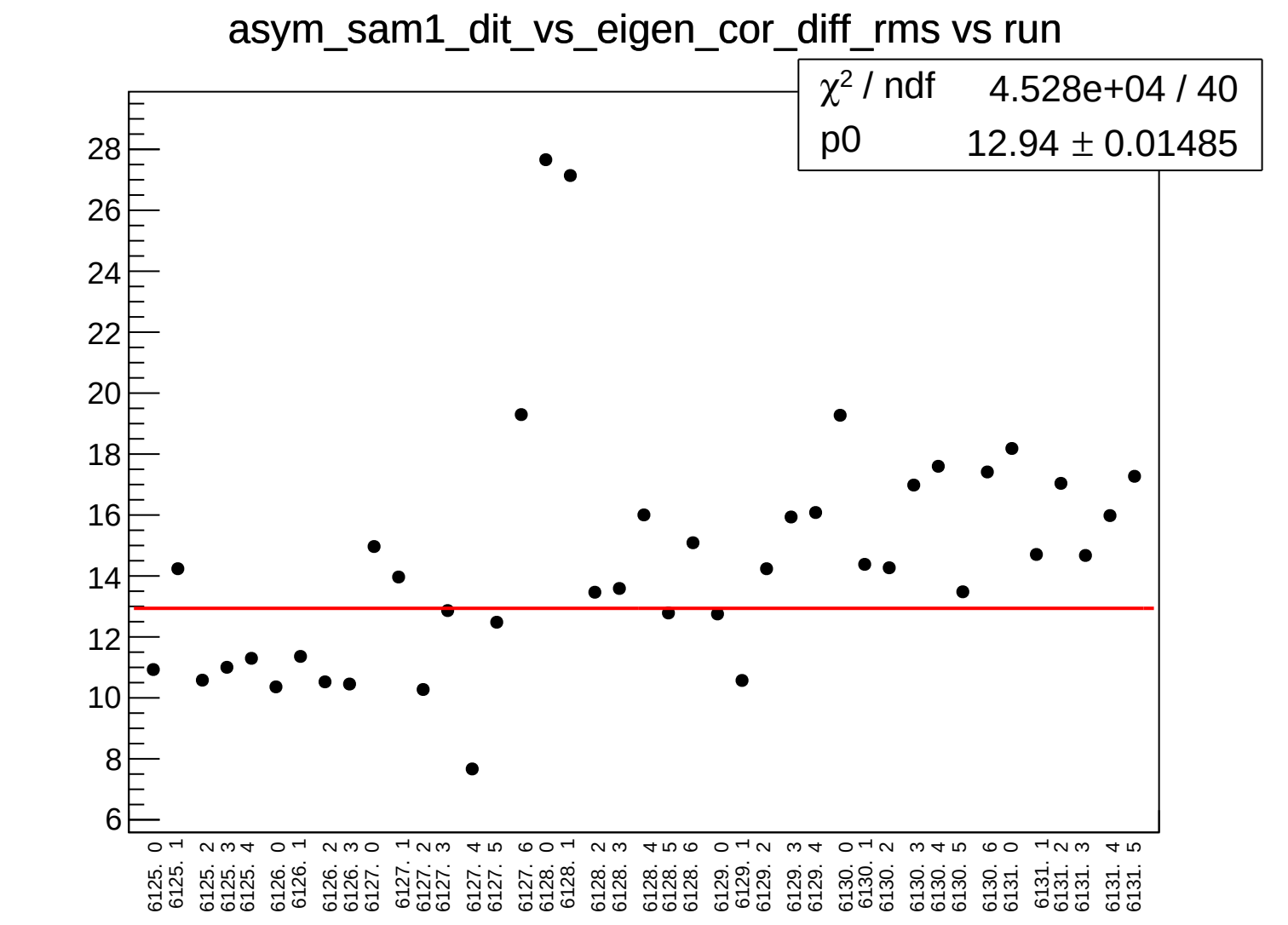

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 48.95 / 40
p0 −0.02454 ± 0.021
pull
Entries 41
Mean 123.9
Std Dev 0

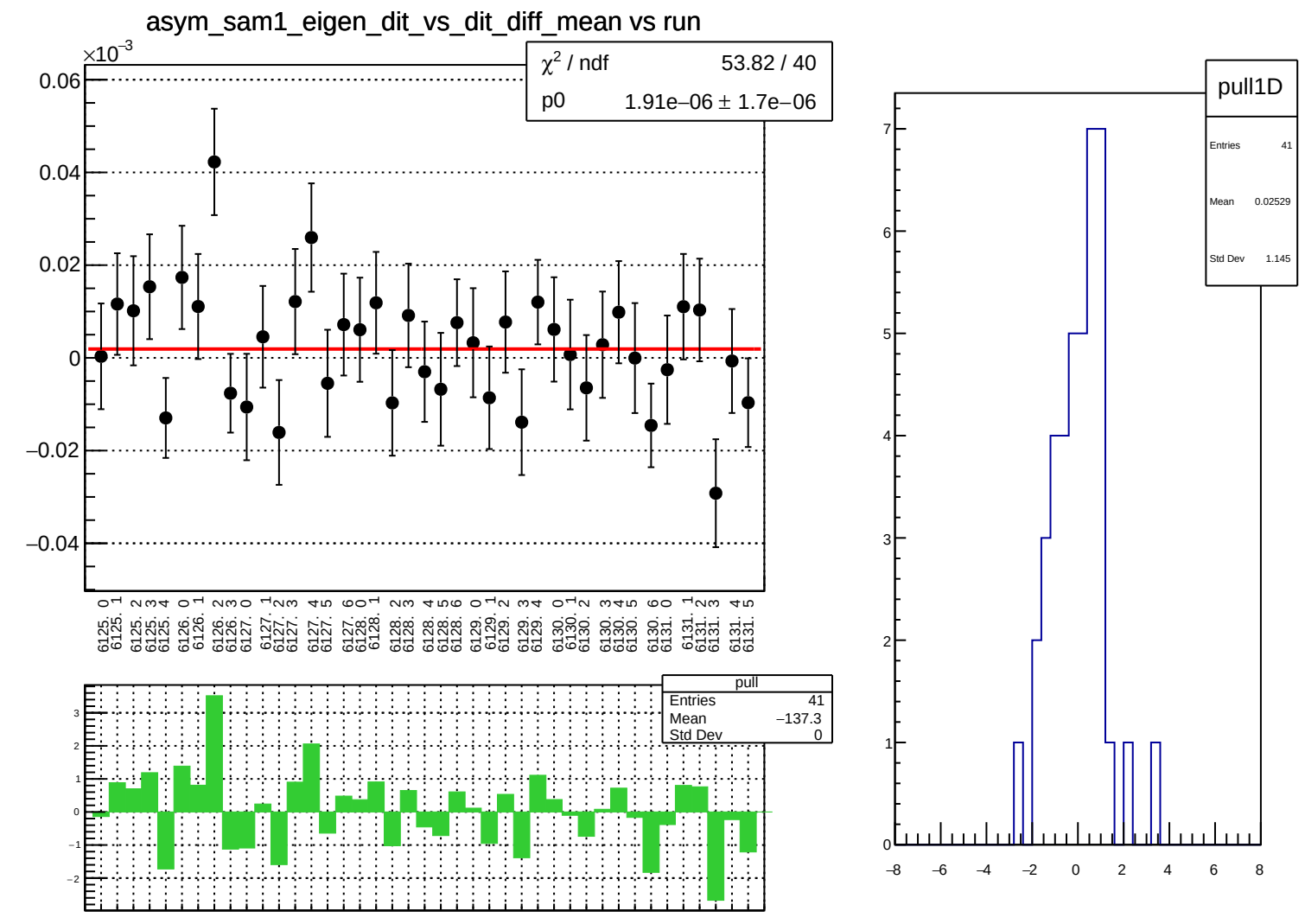

pull1D
Entries 41
Mean 0.01726
Std Dev 1.092

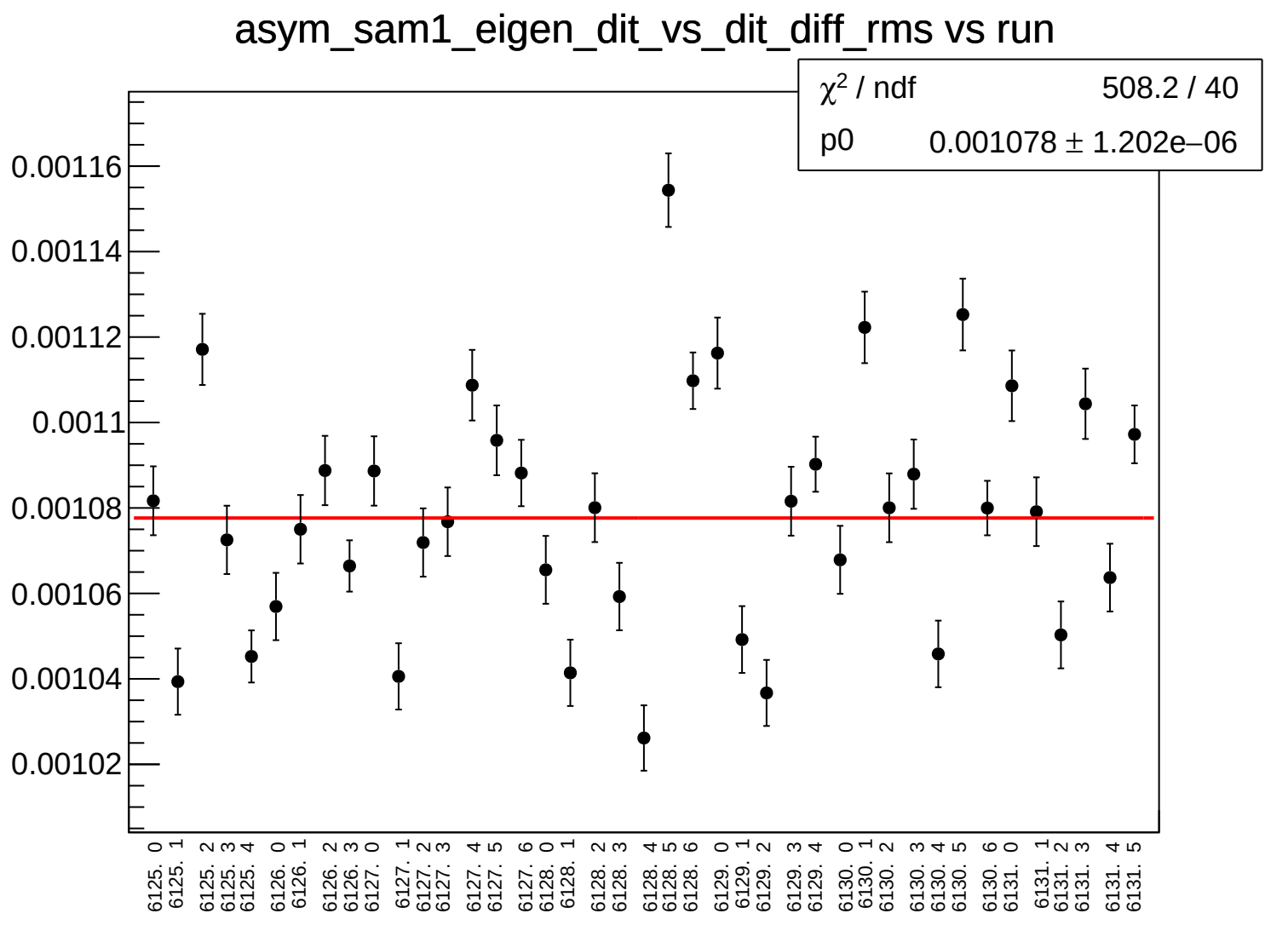

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 4.528e+04 / 40
p0 12.94 ± 0.01485
28
26
24
22
20
18
16
14
12
10
8
6
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

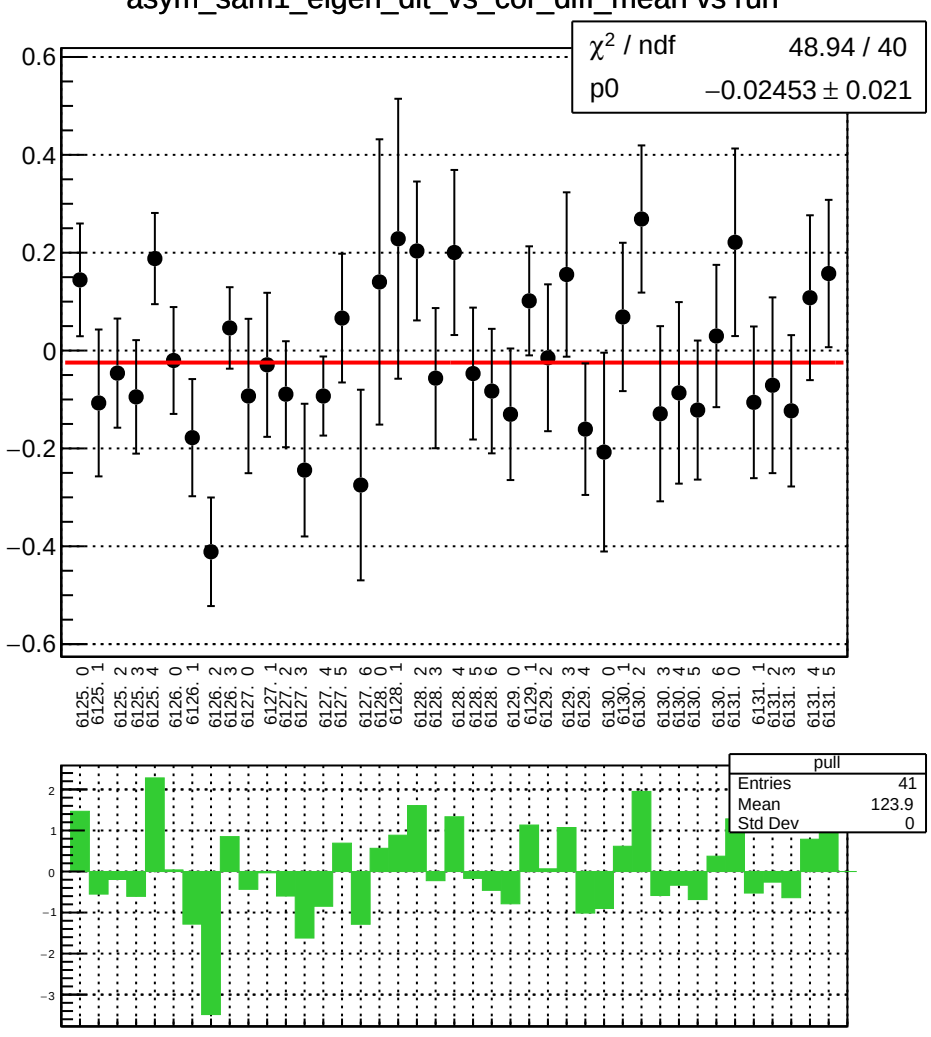

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.95 / 40
p0 −0.02454 ± 0.021
pull
Entries 41
Mean 123.9
Std Dev 0

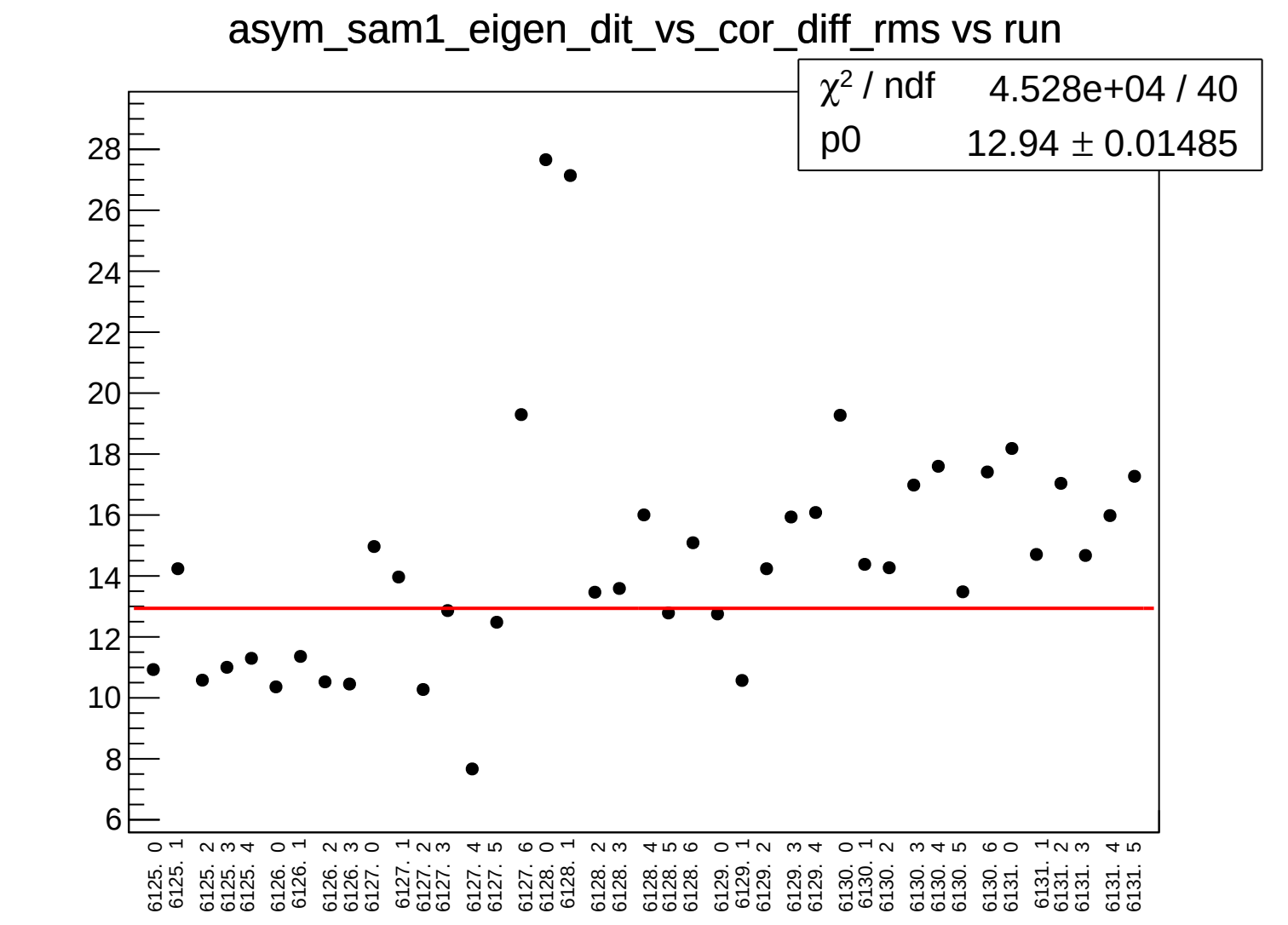

pull1D
Entries 41
Mean 0.01726
Std Dev 1.092

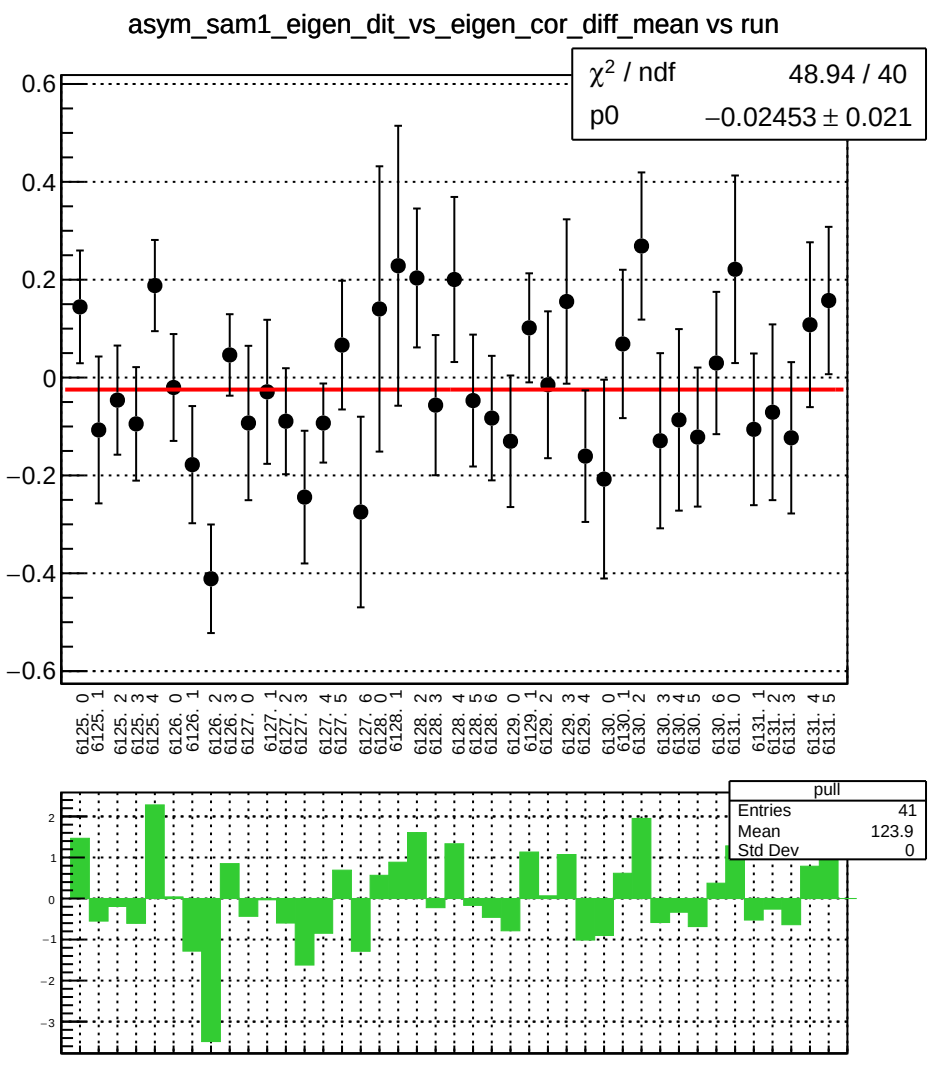

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.528e+04 / 40
p0 12.94 ± 0.01485
28
26
24
22
20
18
16
14
12
10
8
6
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

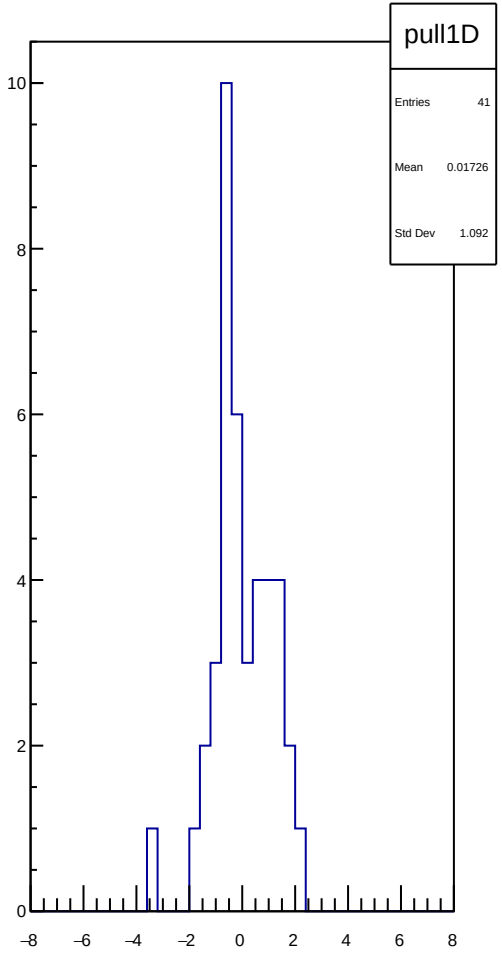

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 53.82 / 40
p0 1.91e−06 ± 1.7e−06
0.06
0.04
0.02
0
−0.02
−0.04
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −137.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.02529
Std Dev 1.145
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

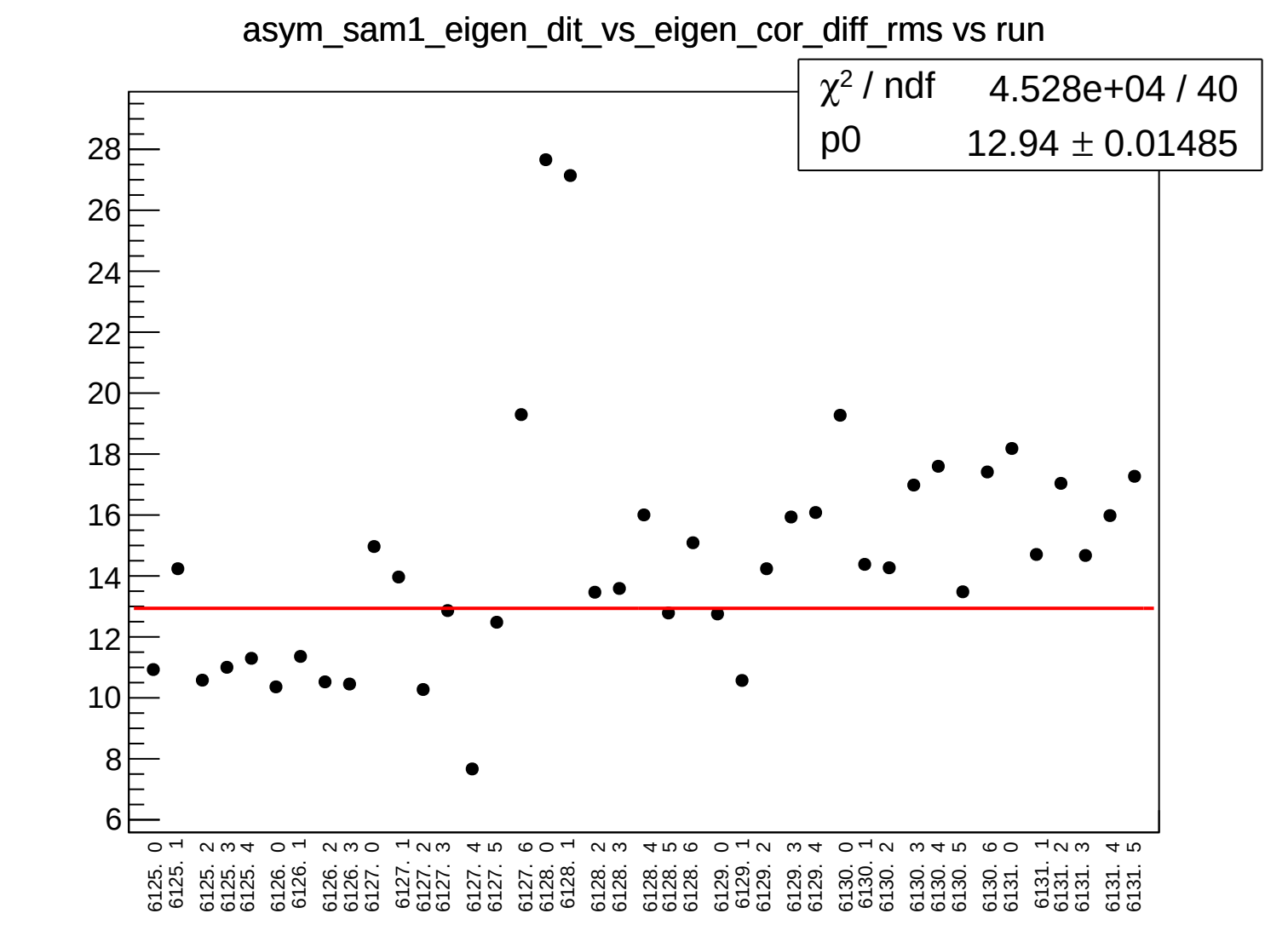

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 508.2 / 40
p0 0.001078 ± 1.202e−06
0.00116
0.00114
0.00112
0.0011
0.00108
0.00106
0.00104
0.00102
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

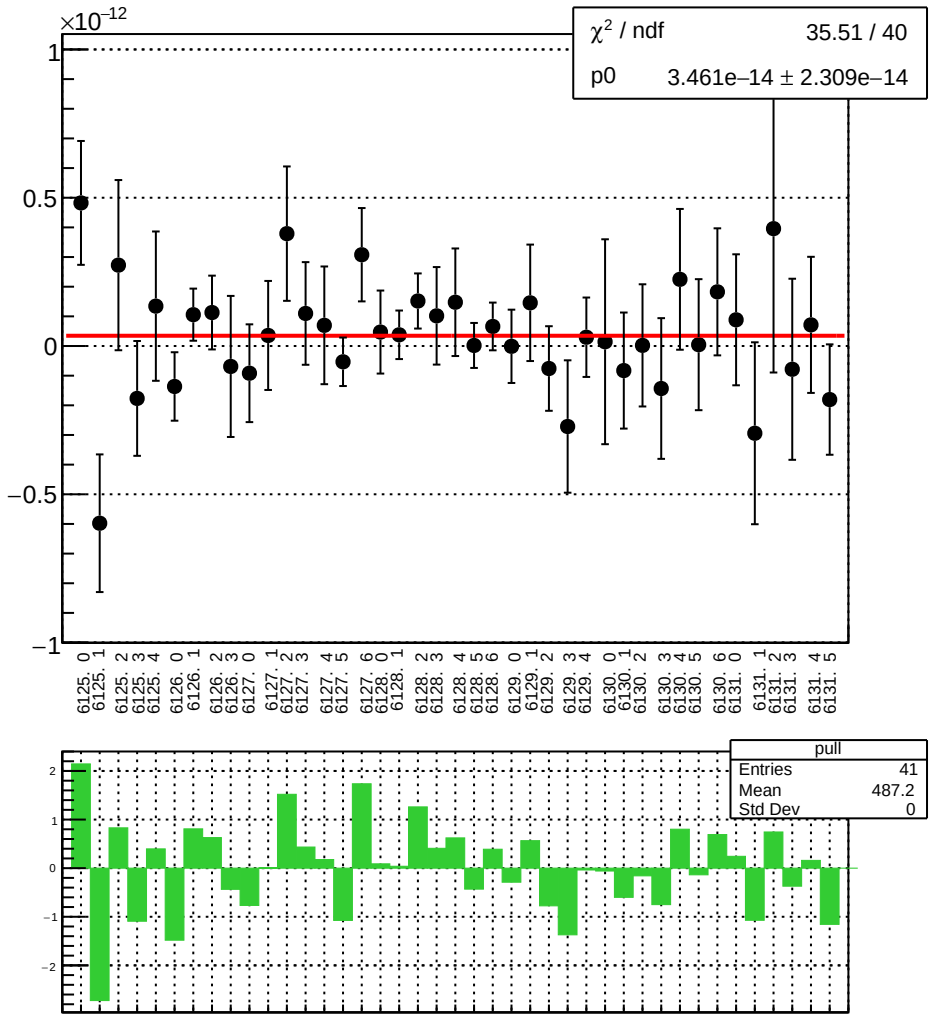

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 48.94 / 40
p0 −0.02453 ± 0.021
pull
Entries 41
Mean 123.9
Std Dev 0
pull1D
Entries 41
Mean 0.01726
Std Dev 1.092

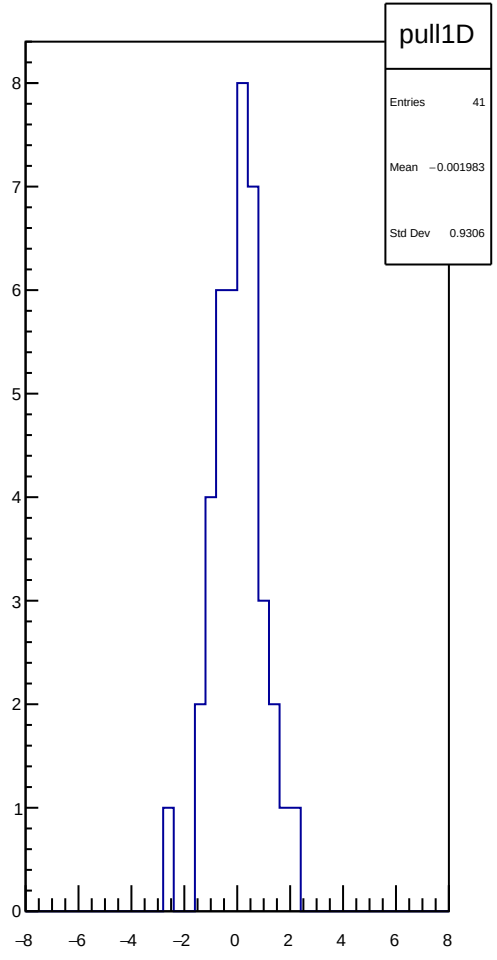

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.528e+04 / 40
p0 12.94 ± 0.01485
28
26
24
22
20
18
16
14
12
10
8
6
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

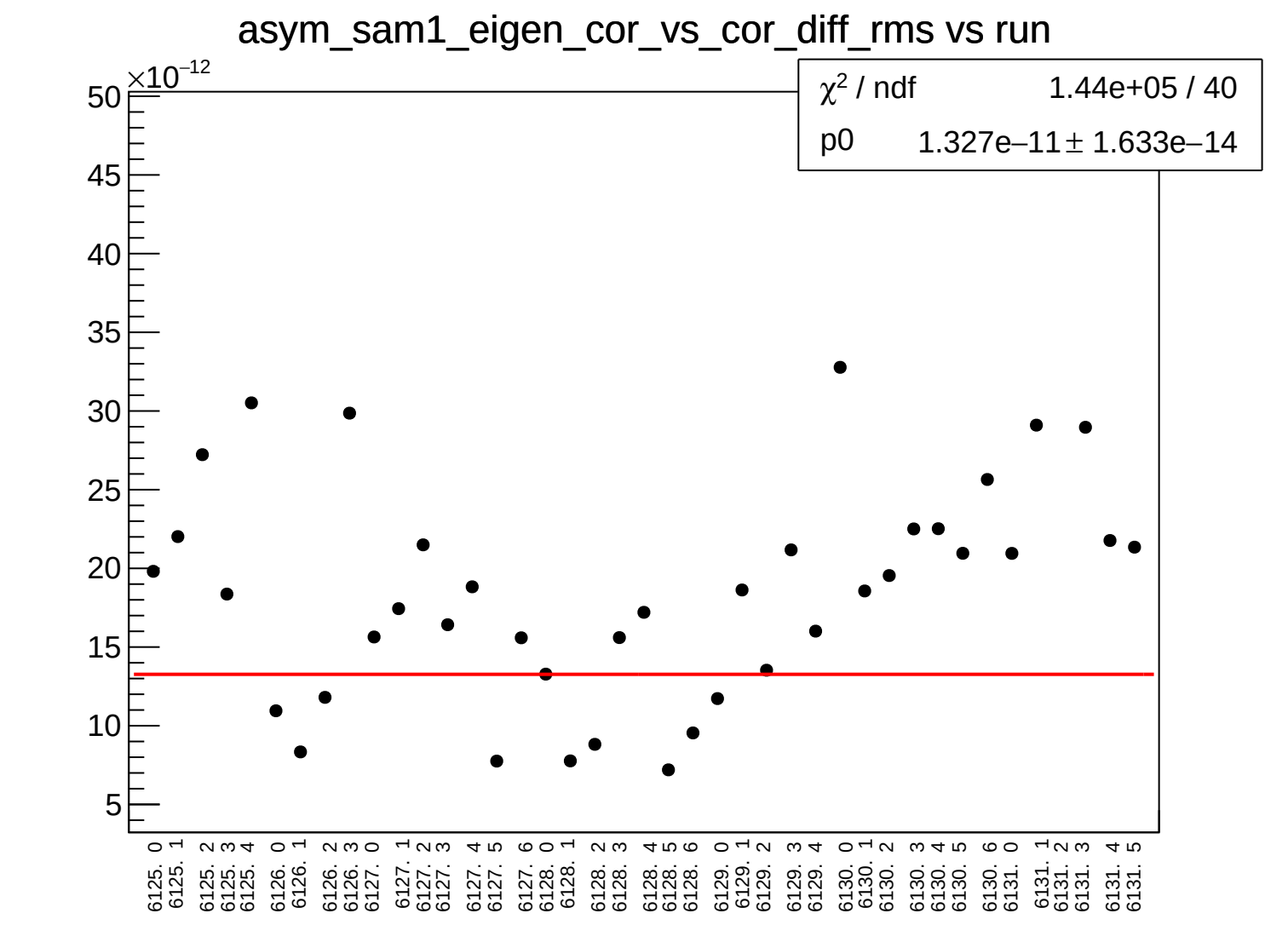

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.94 / 40
p0 −0.02453 ± 0.021
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 123.9
Std Dev 0
2
1
0
−1
−2
−3

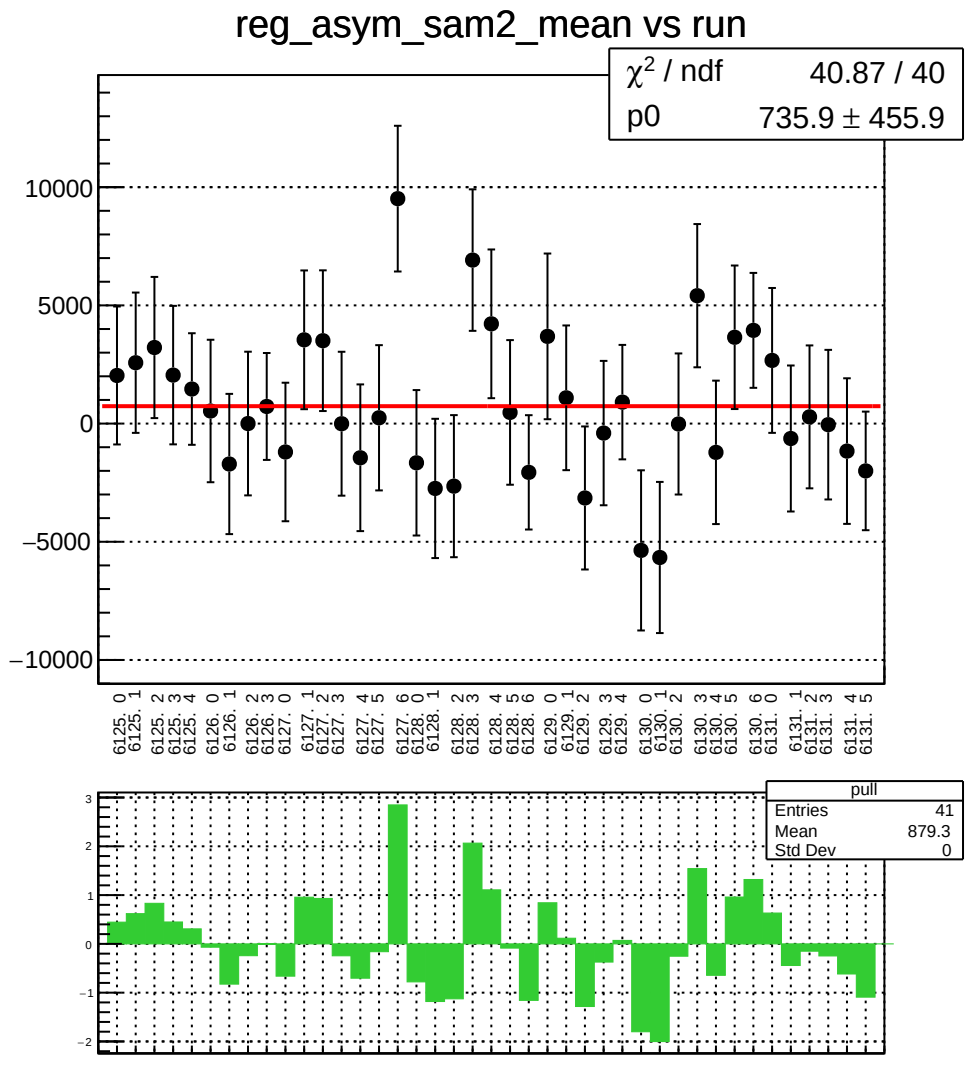

pull1D
Entries 41
Mean 0.01726
Std Dev 1.092
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

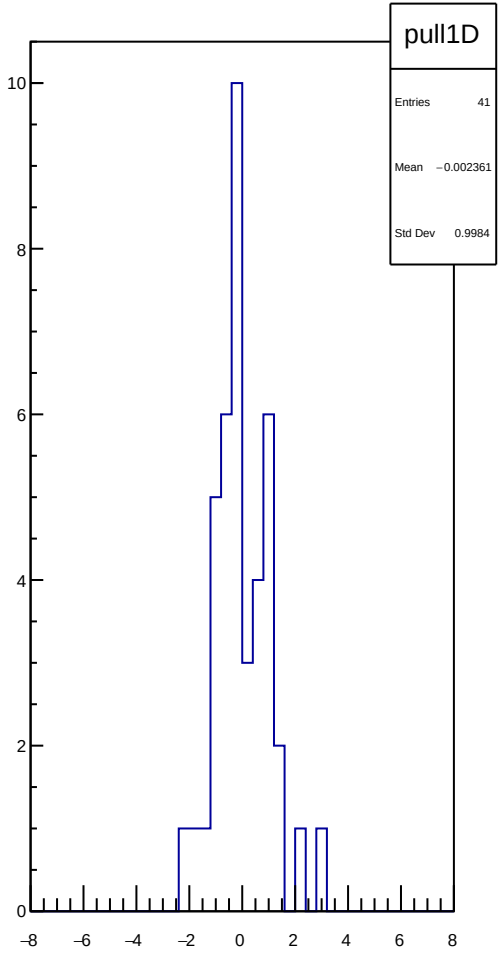

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.528e+04 / 40
p0 12.94 ± 0.01485
28
26
24
22
20
18
16
14
12
10
8
6
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

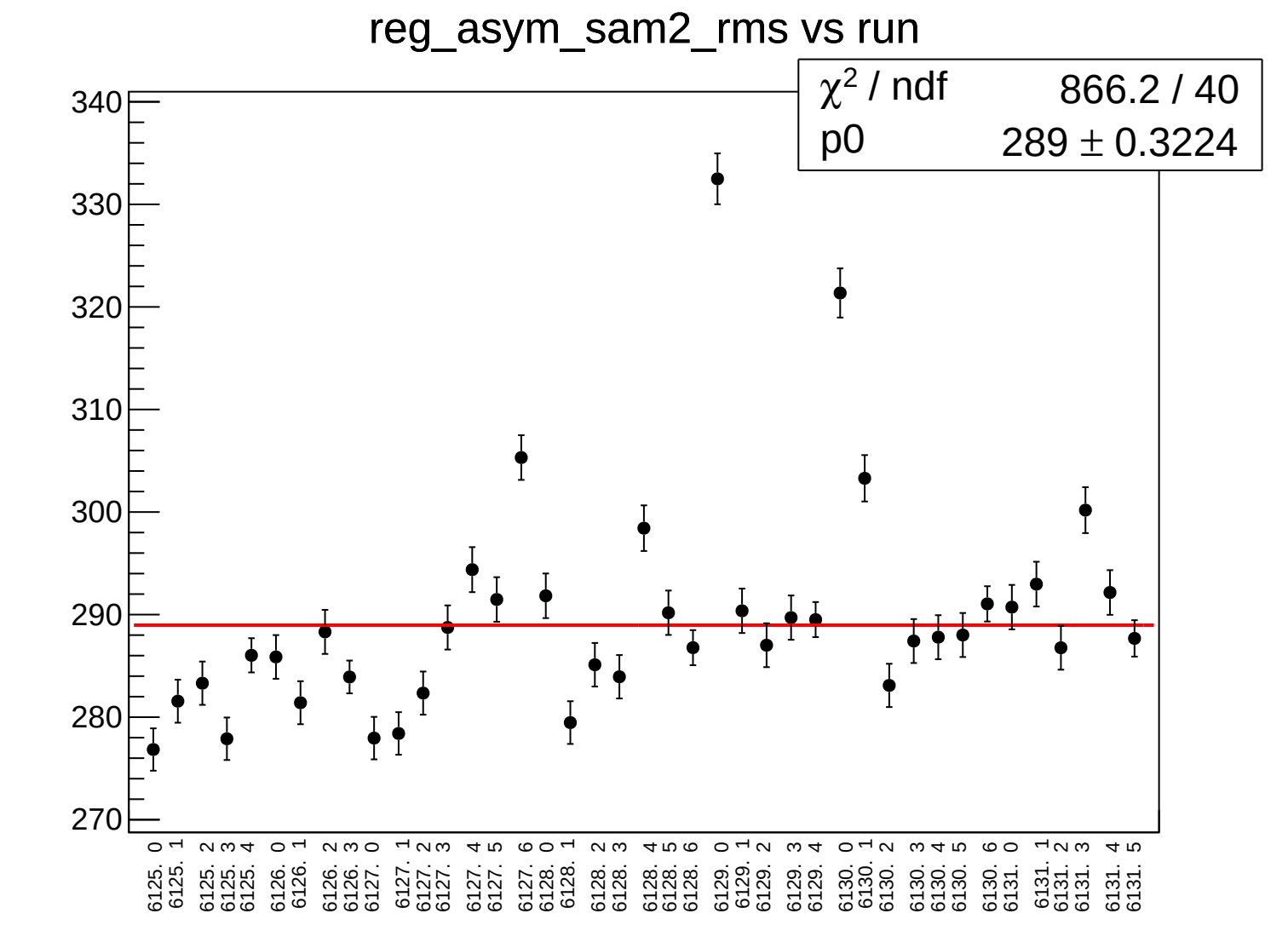

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.51 / 40
p0 3.461e−14 ± 2.309e−14
pull
Entries 41
Mean 487.2
Std Dev 0

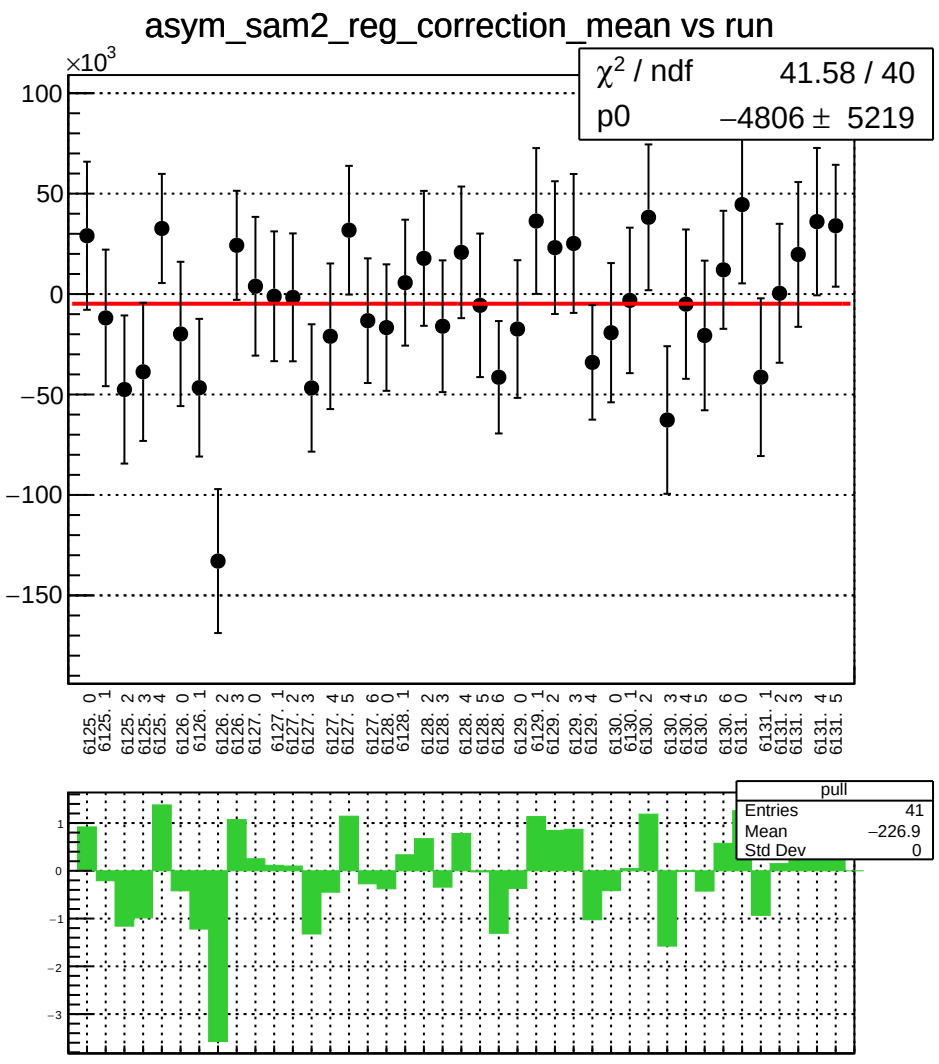

pull1D
Entries 41
Mean −0.001983
Std Dev 0.9306

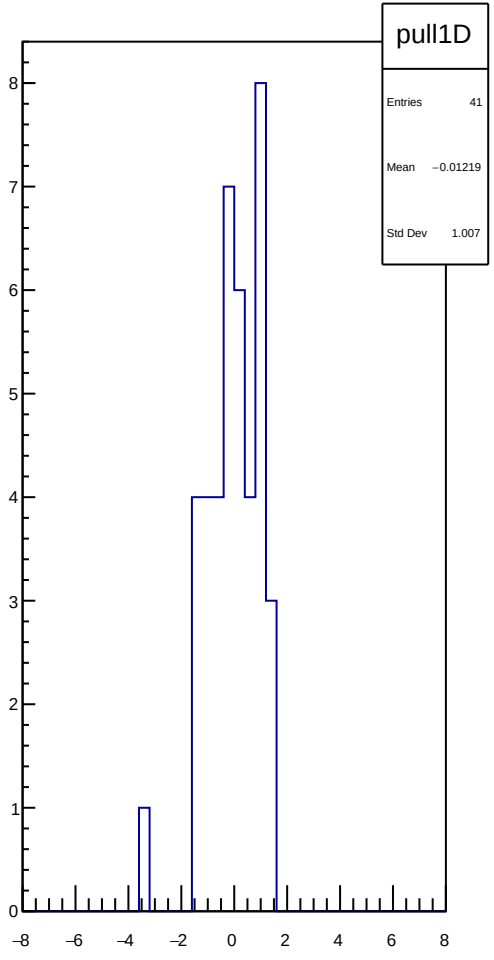

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.44e+05 / 40
p0 1.327e−11 ± 1.633e−14
50
45
40
35
30
25
20
15
10
5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

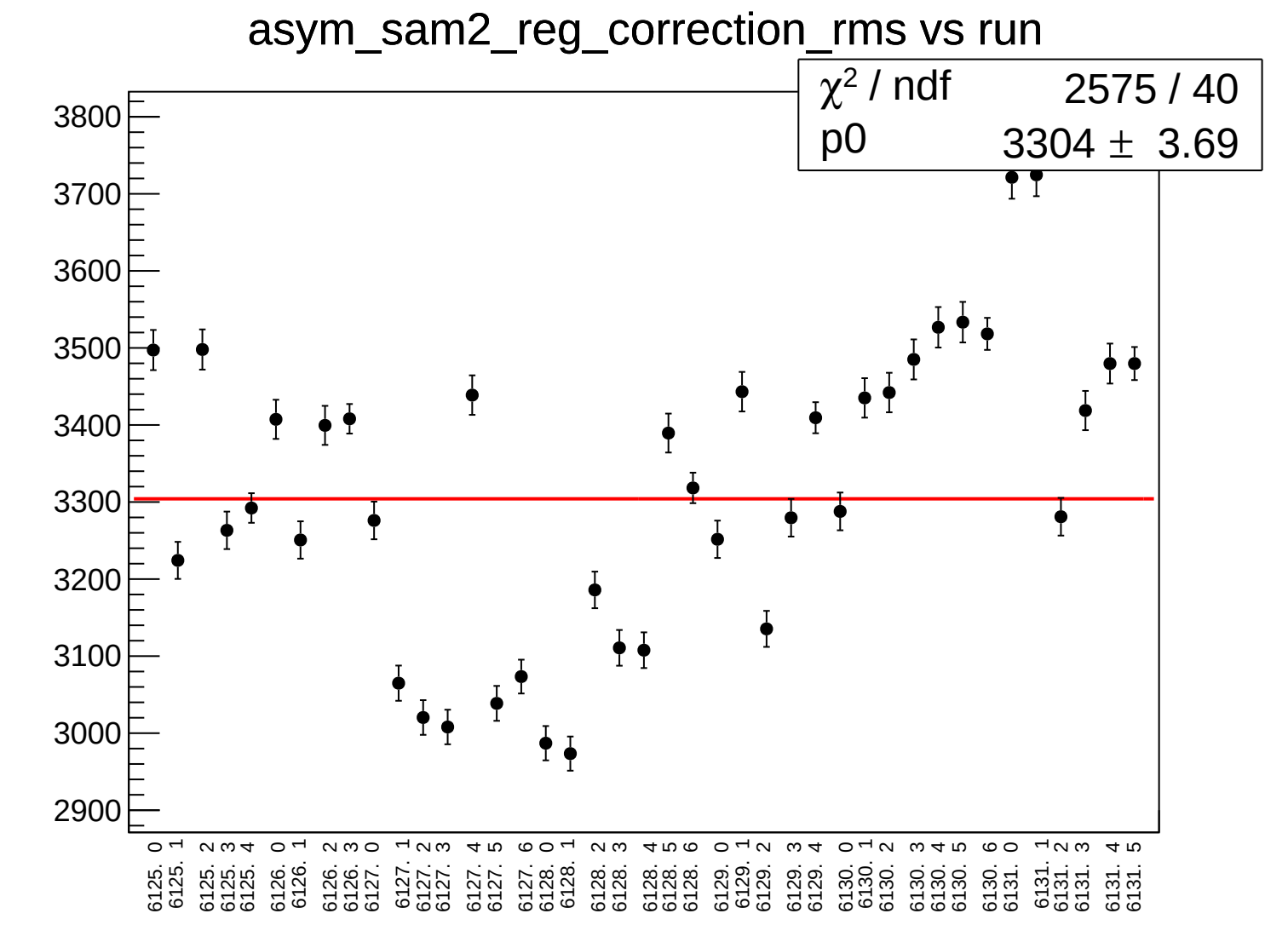

reg_asym_sam2_mean vs run
χ² / ndf 40.87 / 40
p0 735.9 ± 455.9
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 879.3
Std Dev 0
3
2
1
0
−1
−2

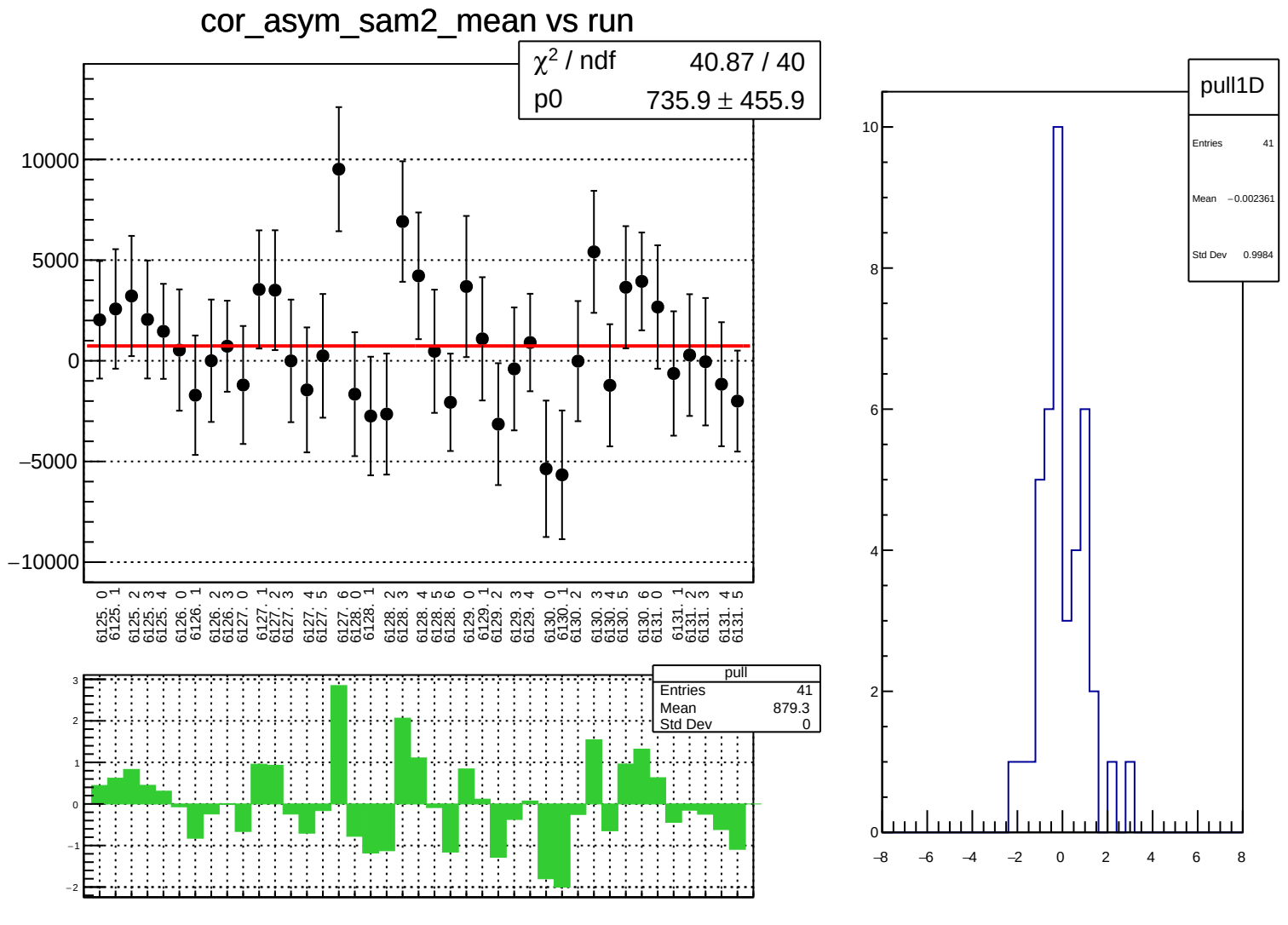

pull1D
Entries 41
Mean −0.002361
Std Dev 0.9984
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

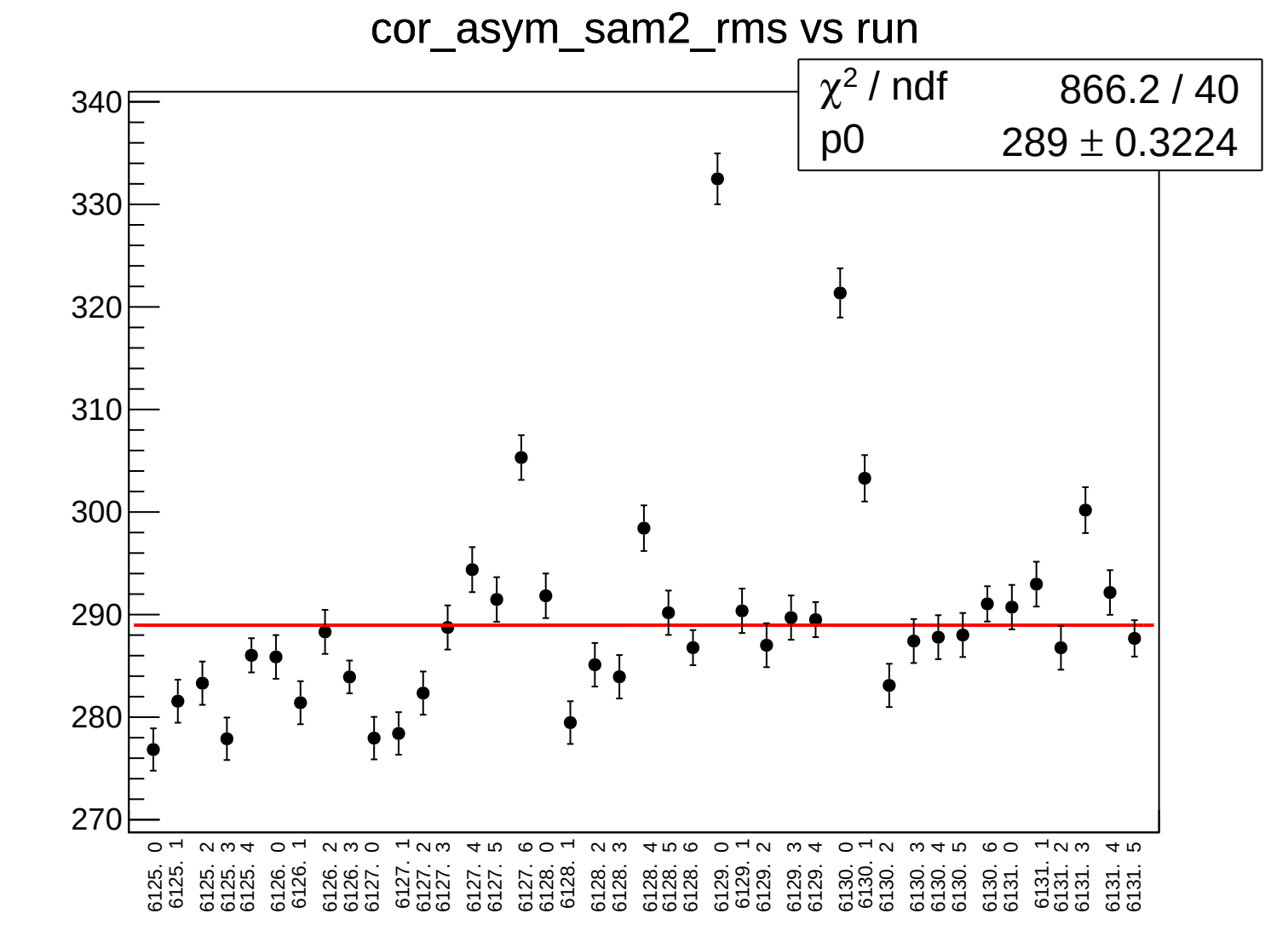

reg_asym_sam2_rms vs run
χ² / ndf 866.2 / 40
p0 289 ± 0.3224
340
330
320
310
300
290
280
270
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

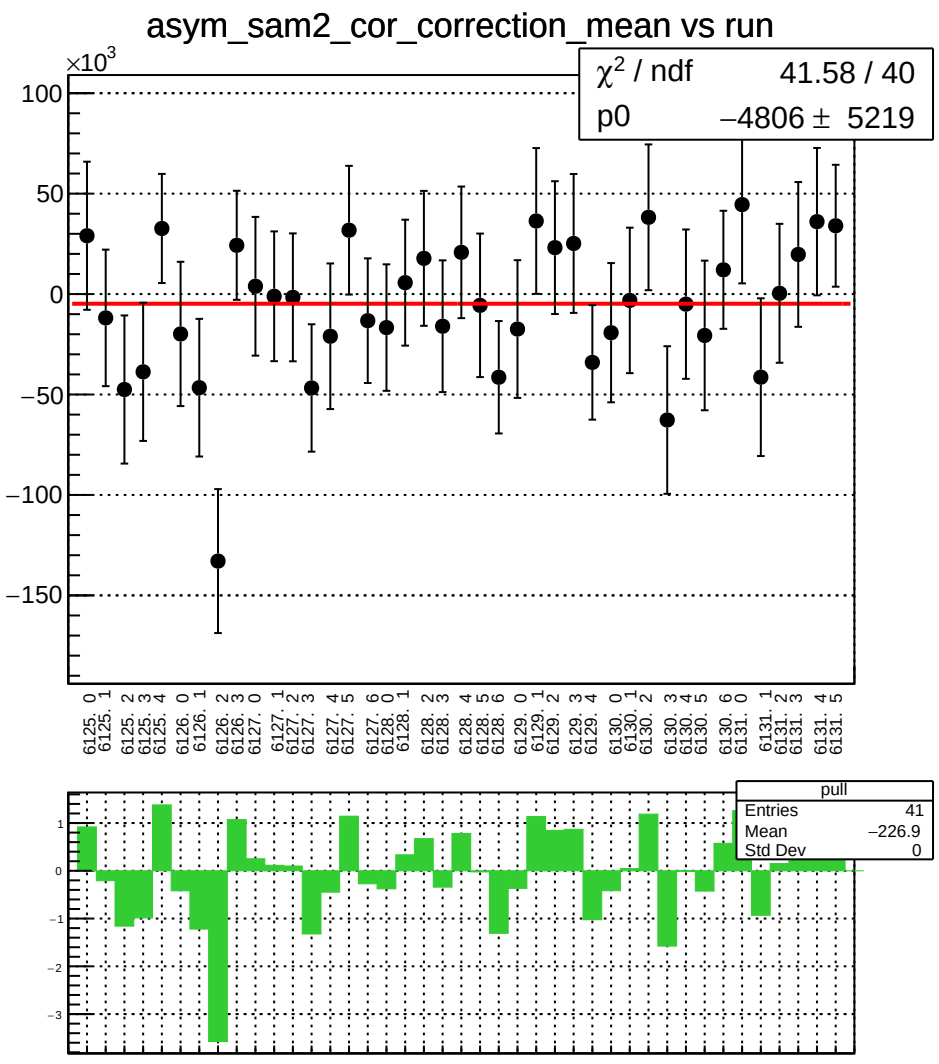

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 41.58 / 40
p0 −4806 ± 5219
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −226.9
Std Dev 0
1
0
−1
−2
−3

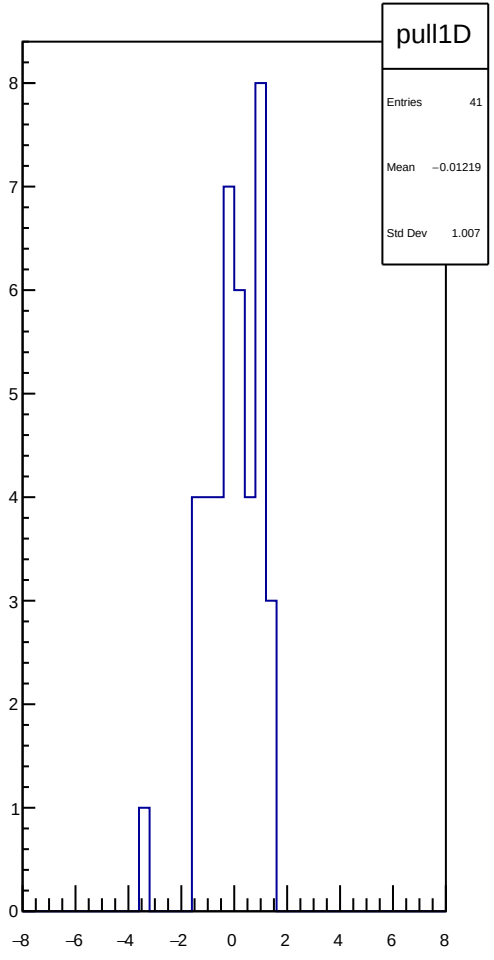

pull1D
Entries 41
Mean −0.01219
Std Dev 1.007
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

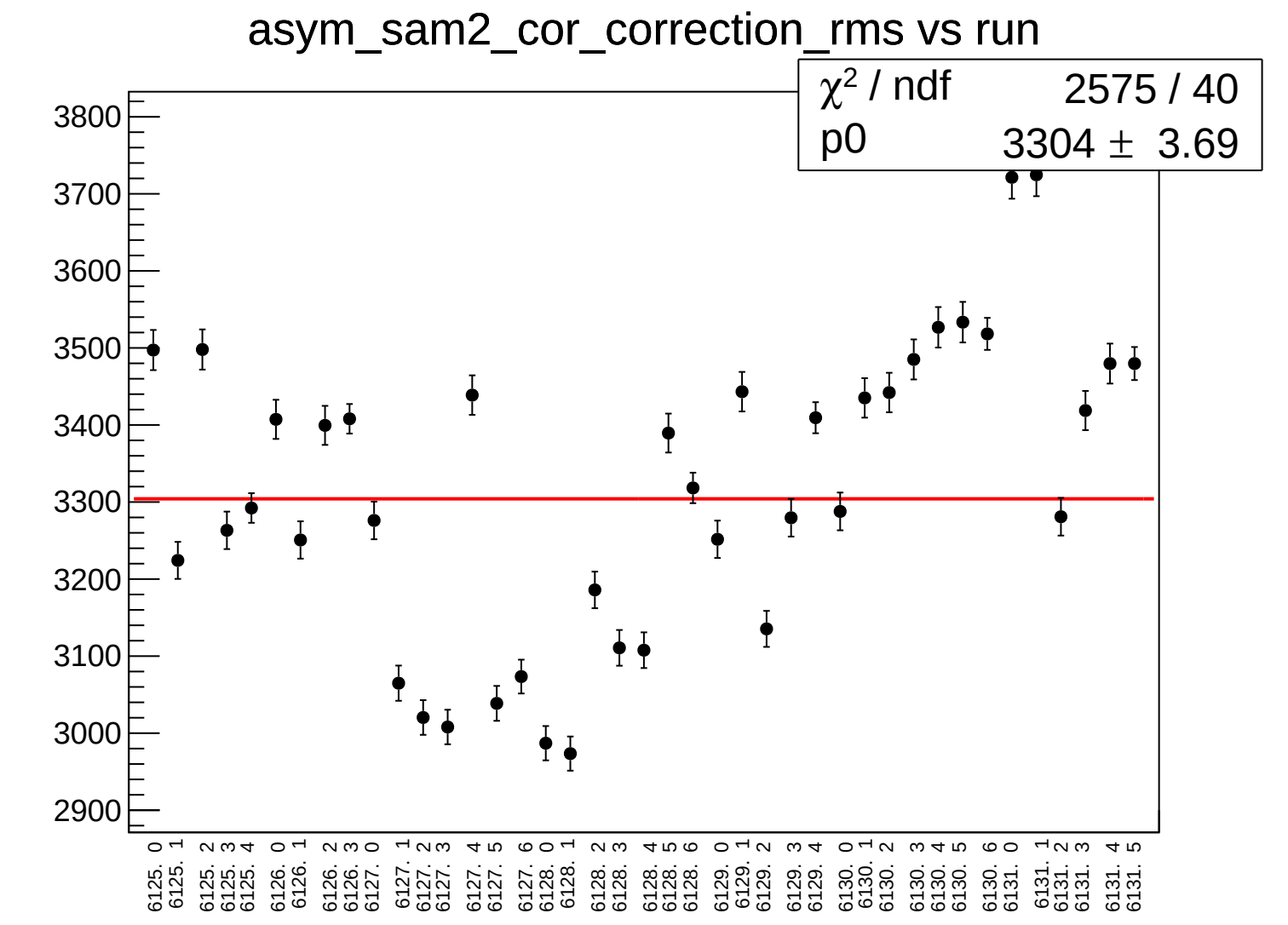

asym_sam2_reg_correction_rms vs run
χ² / ndf 2575 / 40
p0 3304 ± 3.69
3800
3700
3600
3500
3400
3300
3200
3100
3000
2900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

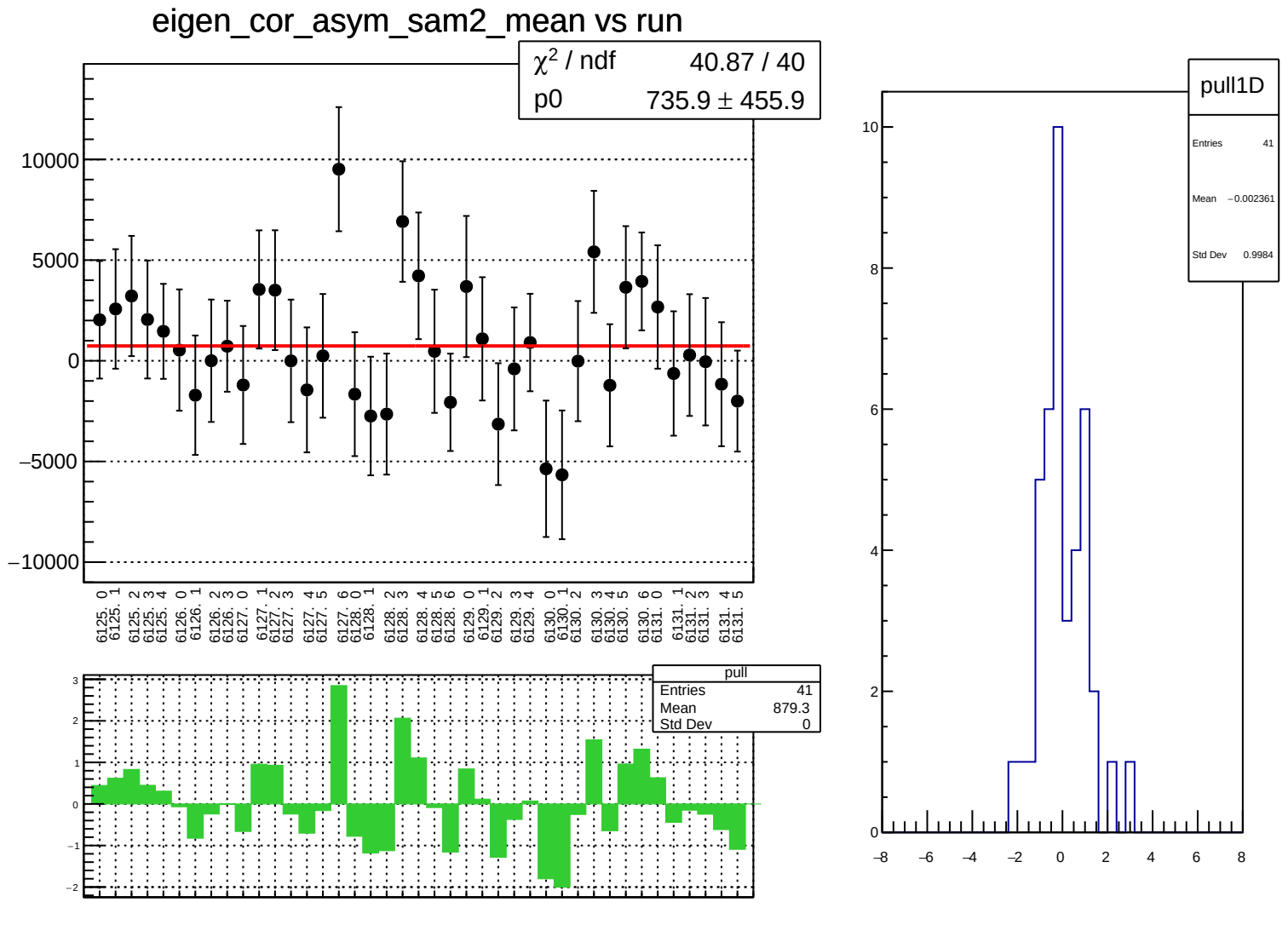

cor_asym_sam2_mean vs run
χ² / ndf 40.87 / 40
p0 735.9 ± 455.9
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 879.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.002361
Std Dev 0.9984
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

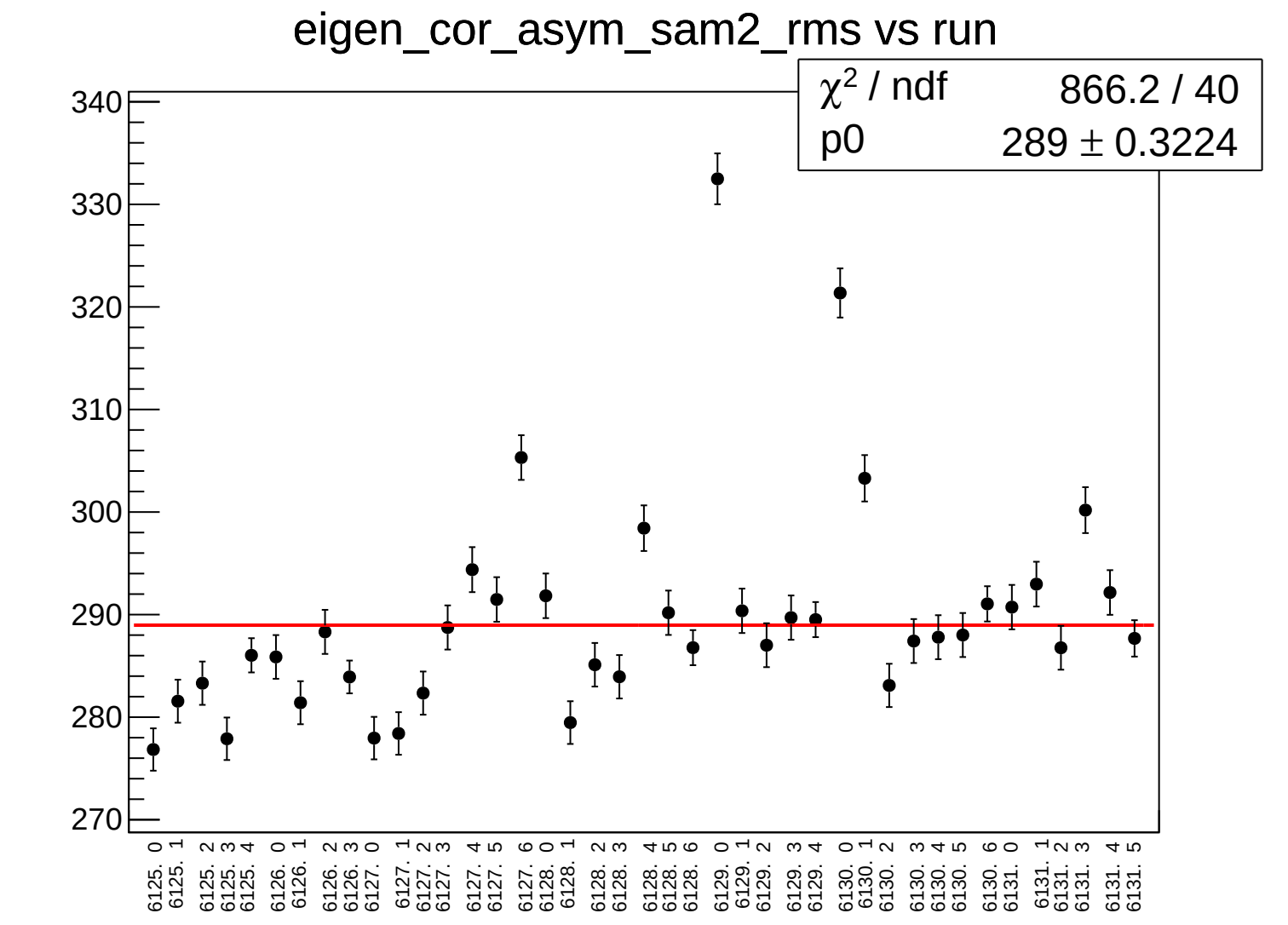

cor_asym_sam2_rms vs run
χ² / ndf 866.2 / 40
p0 289 ± 0.3224
340
330
320
310
300
290
280
270
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

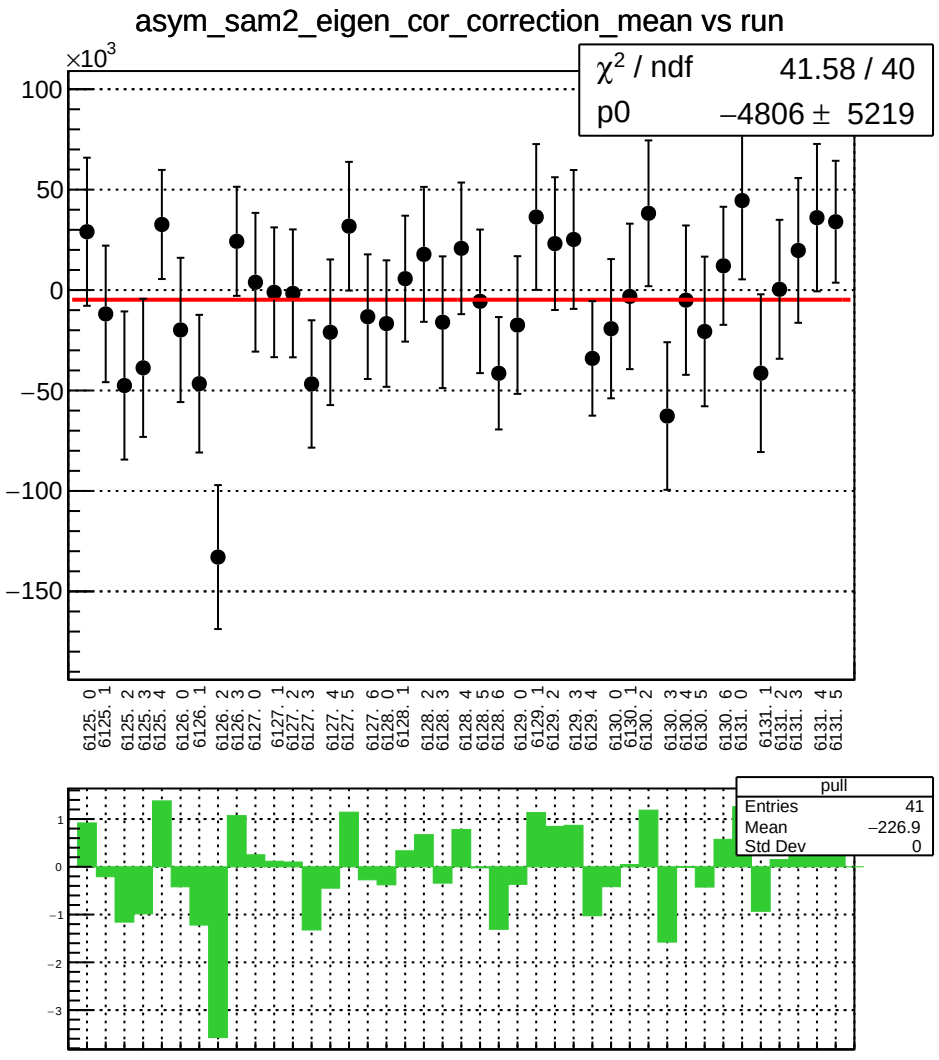

asym_sam2_cor_correction_mean vs run
×10^3
χ^2 / ndf 41.58 / 40
p0 −4806 ± 5219
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −226.9
Std Dev 0
1
0
−1
−2
−3

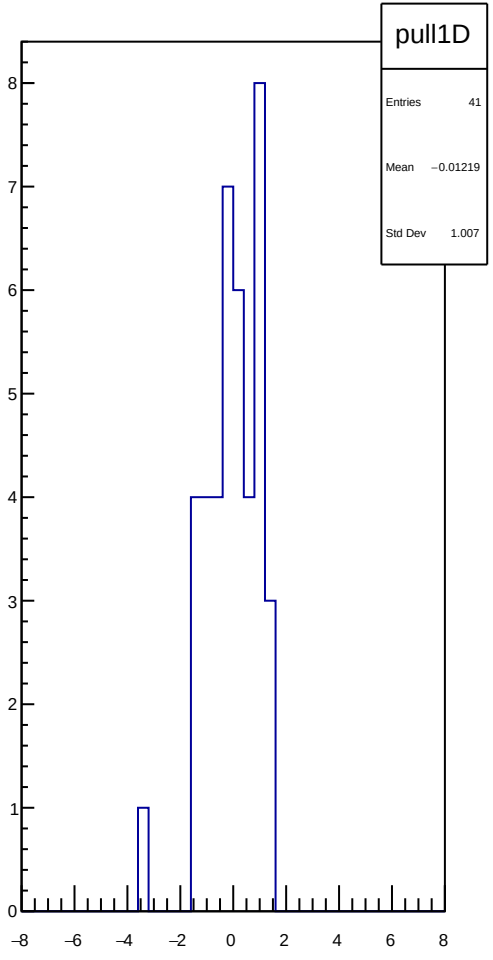

pull1D
Entries 41
Mean −0.01219
Std Dev 1.007
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

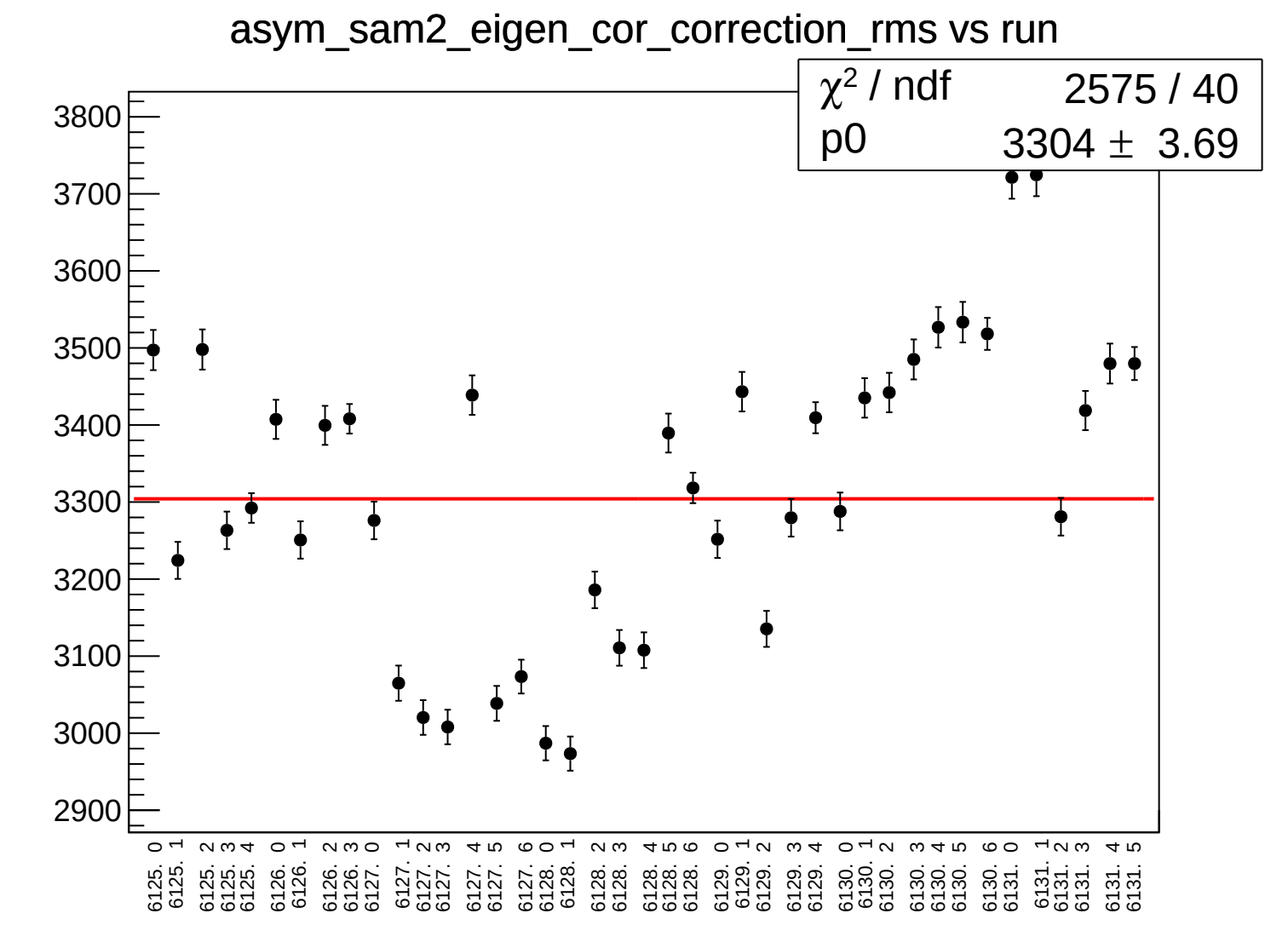

asym_sam2_cor_correction_rms vs run
χ² / ndf 2575 / 40
p0 3304 ± 3.69
3800
3700
3600
3500
3400
3300
3200
3100
3000
2900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

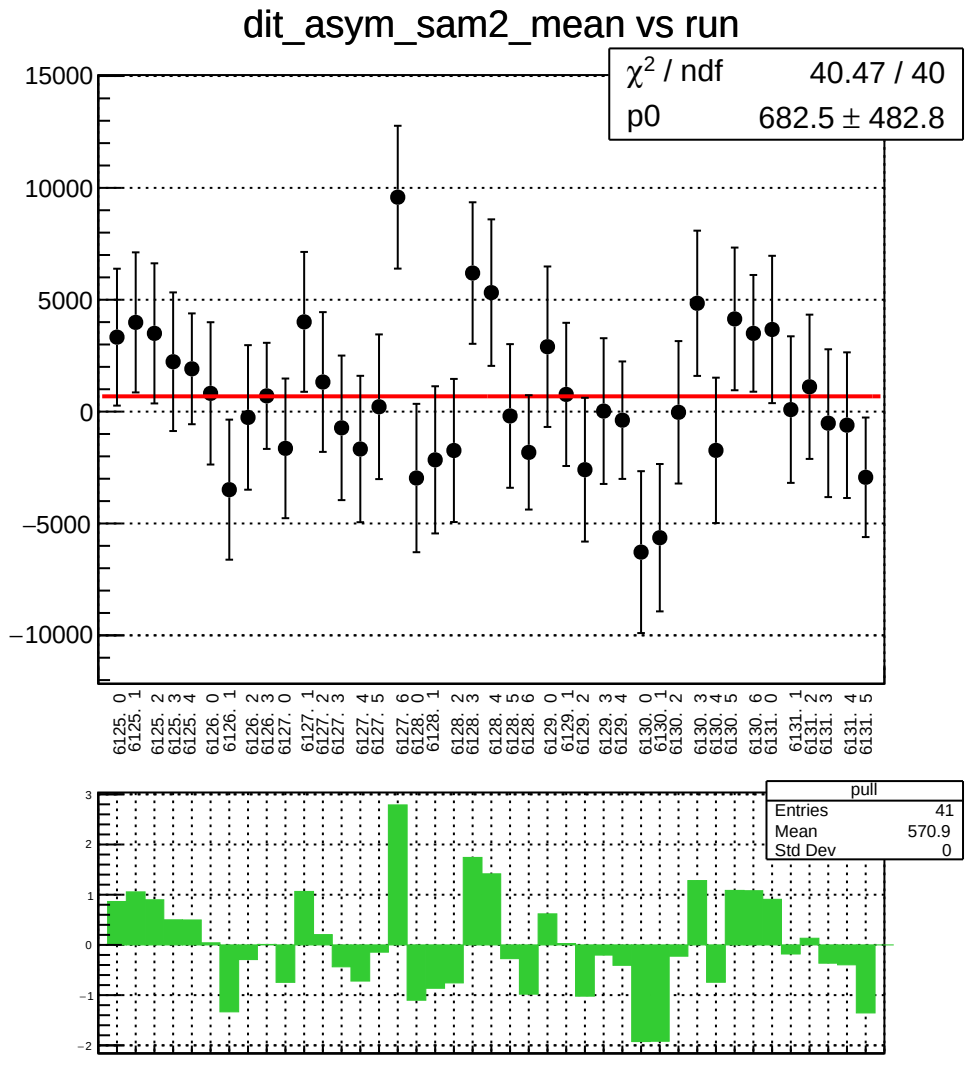

eigen_cor_asym_sam2_mean vs run
χ² / ndf 40.87 / 40
p0 735.9 ± 455.9
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 879.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.002361
Std Dev 0.9984
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

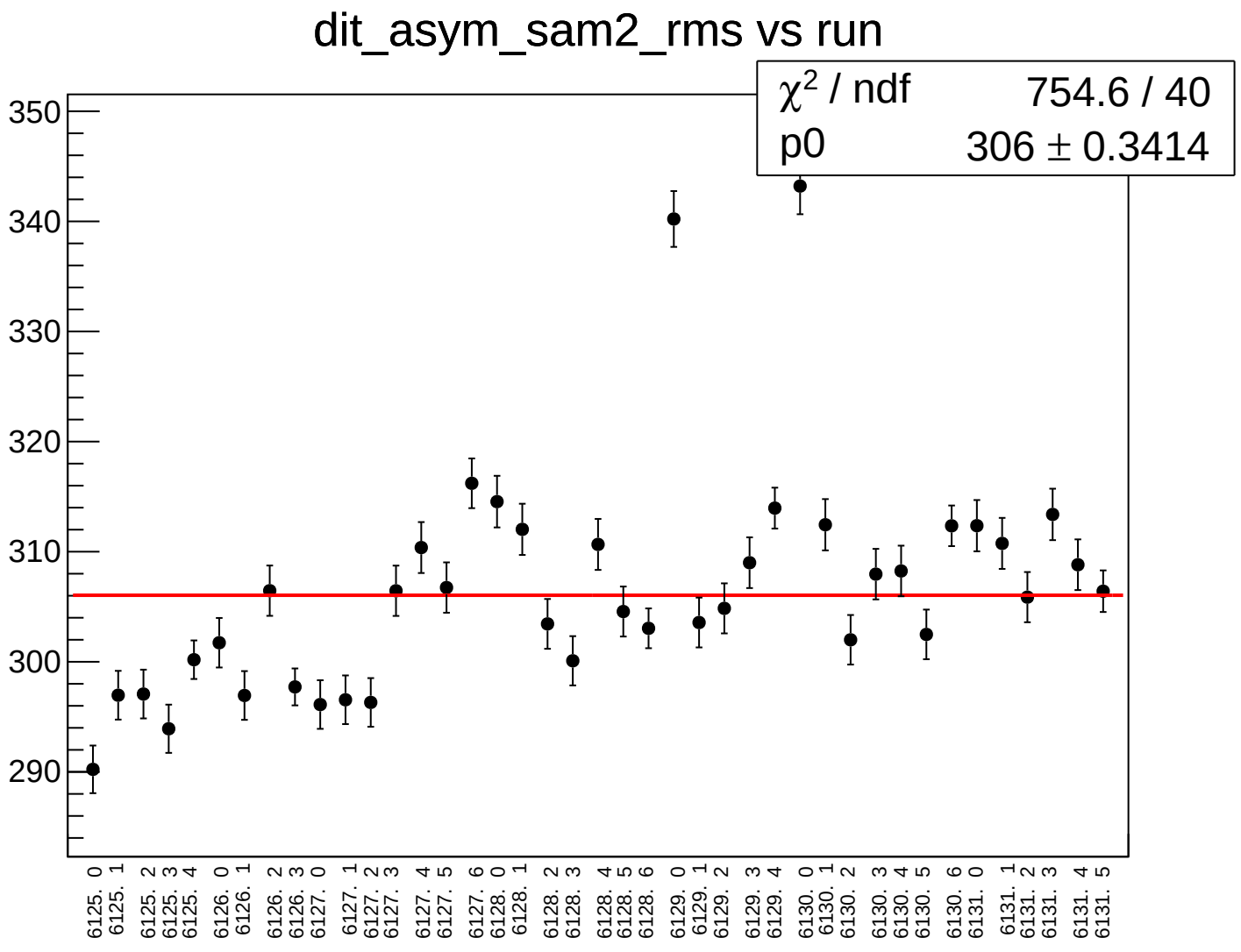

eigen_cor_asym_sam2_rms vs run
χ² / ndf 866.2 / 40
p0 289 ± 0.3224
340
330
320
310
300
290
280
270
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

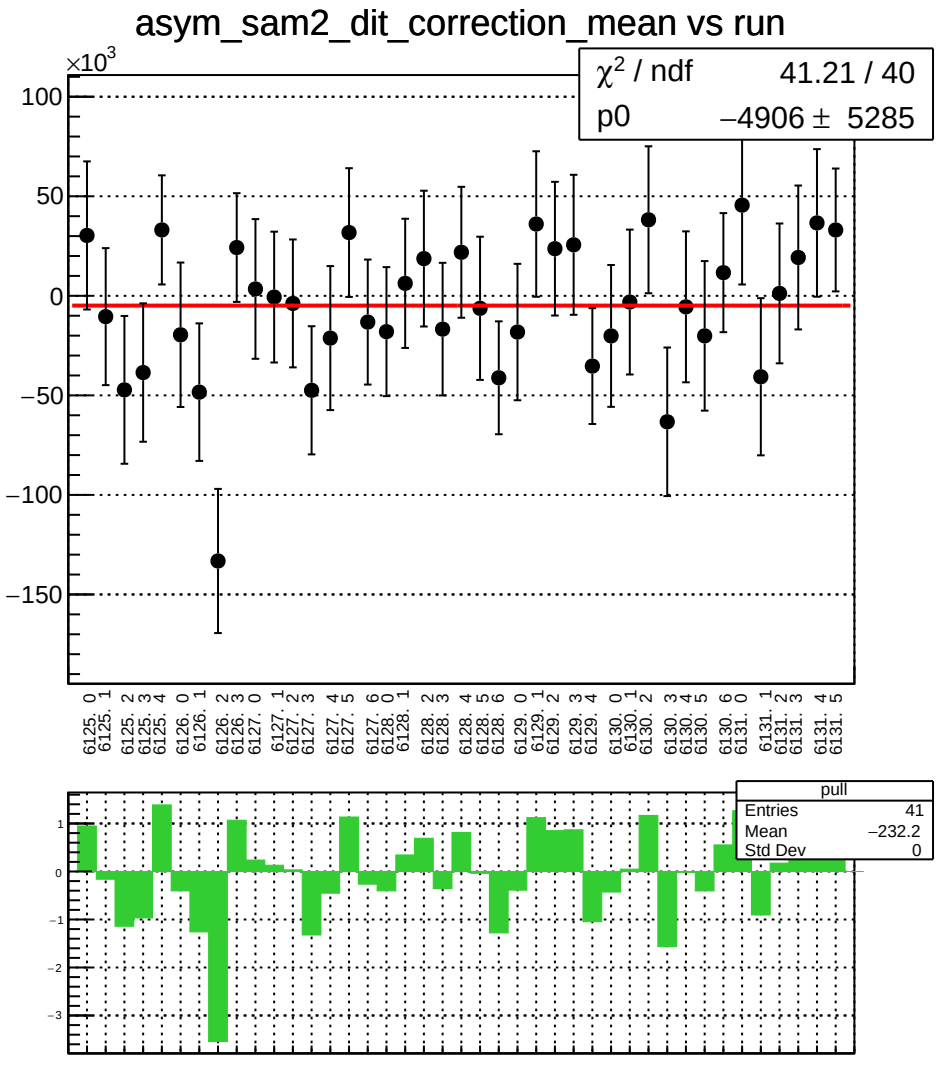

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.58 / 40
p0 −4806 ± 5219
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −226.9
Std Dev 0
1
0
−1
−2
−3

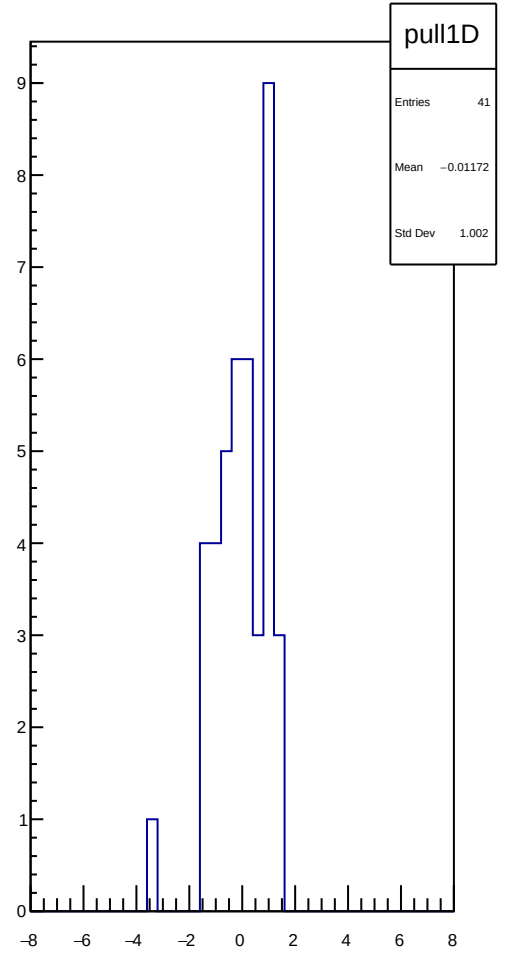

pull1D
Entries 41
Mean −0.01219
Std Dev 1.007
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

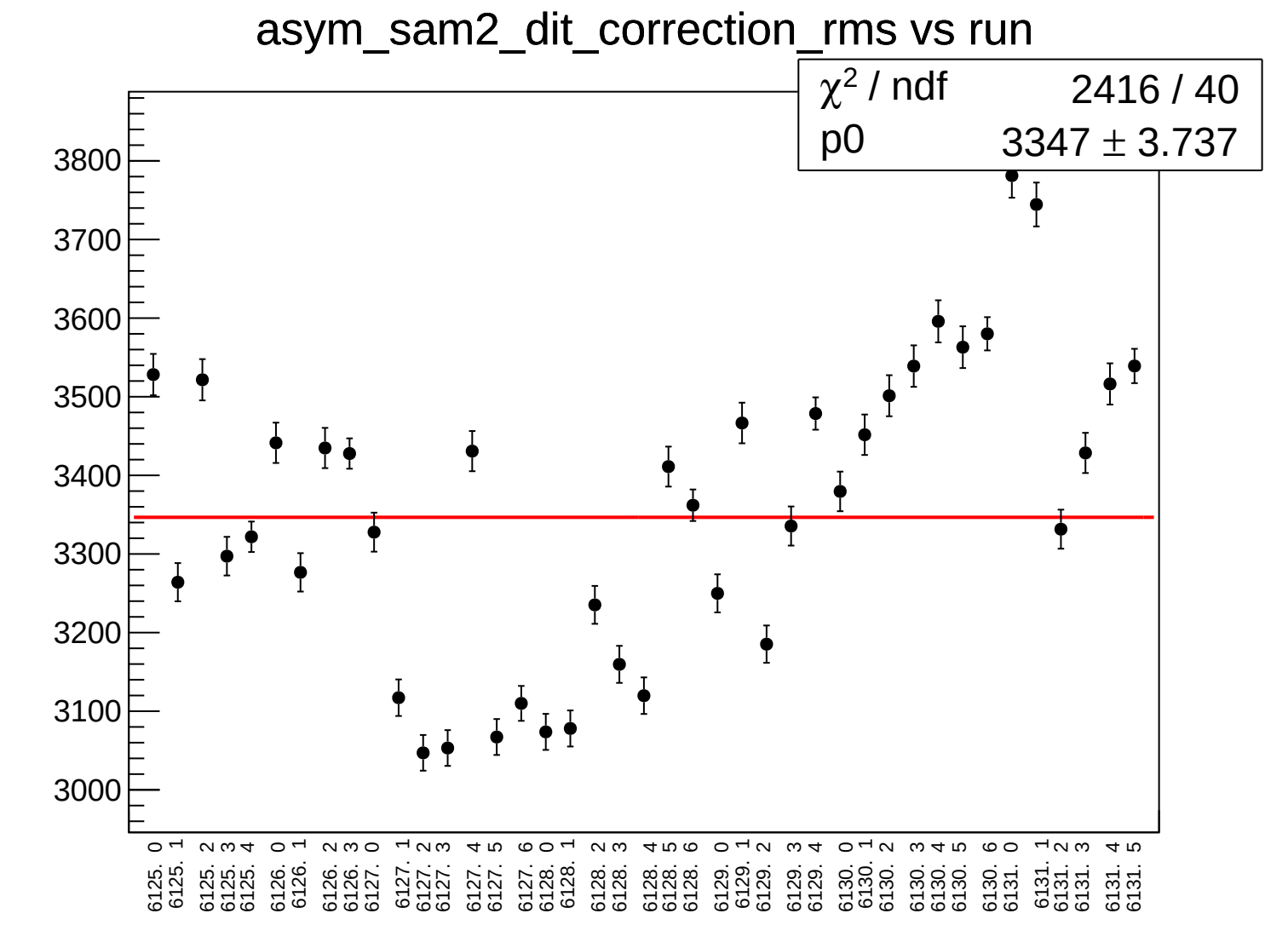

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 2575 / 40
p0 3304 ± 3.69
3800
3700
3600
3500
3400
3300
3200
3100
3000
2900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

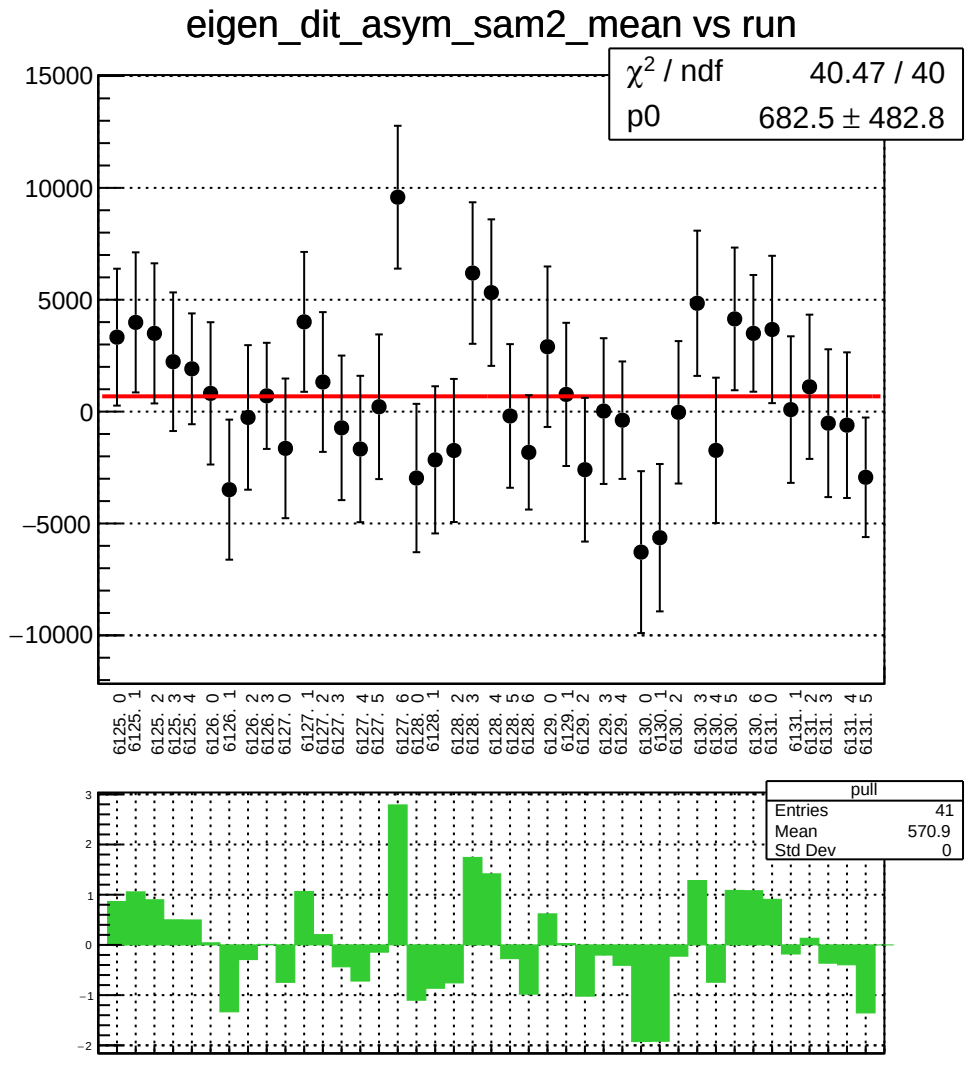

dit_asym_sam2_mean vs run
χ² / ndf 40.47 / 40
p0 682.5 ± 482.8
15000
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 570.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.00392
Std Dev 0.9935
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

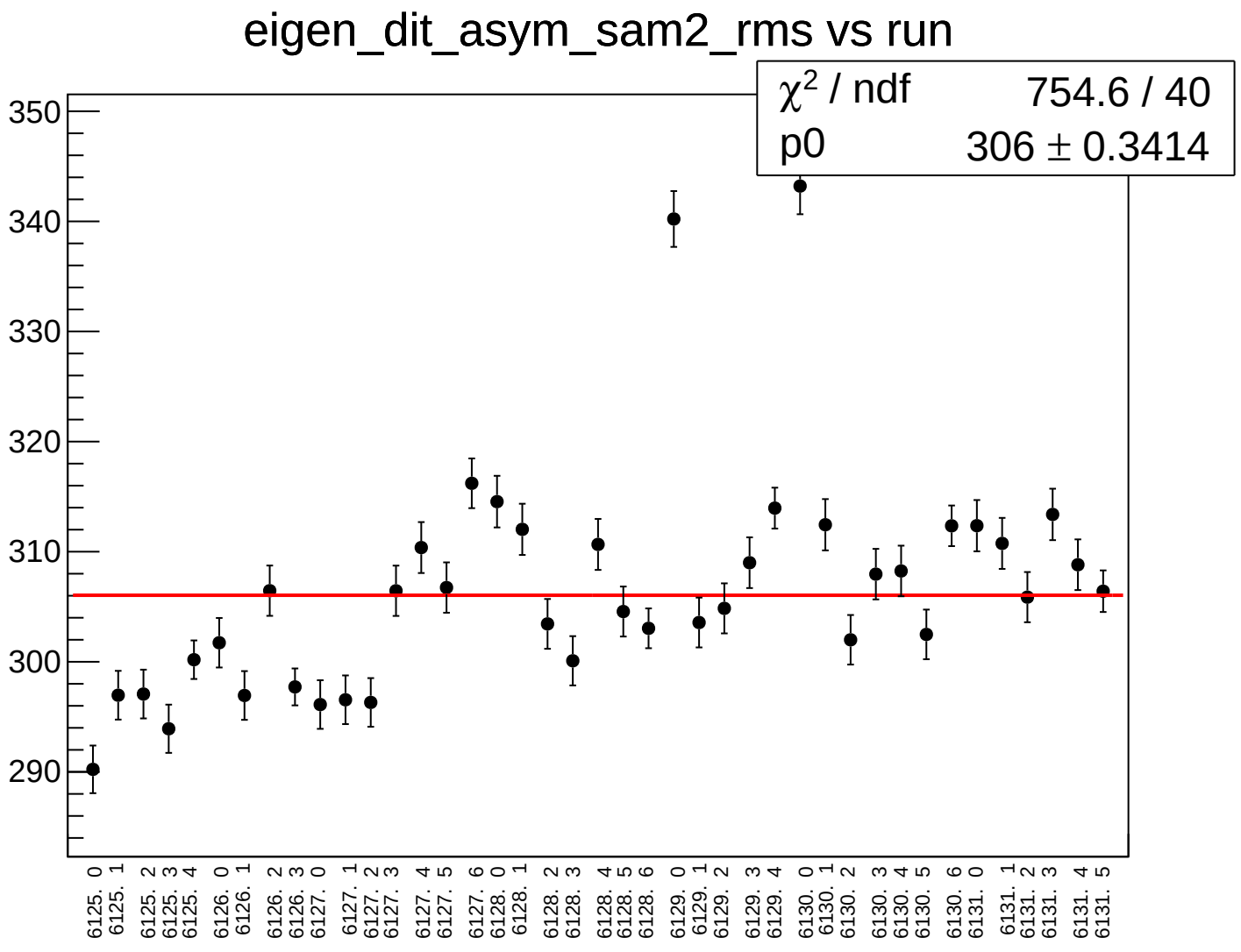

dit_asym_sam2_rms vs run
χ² / ndf 754.6 / 40
p0 306 ± 0.3414
350
340
330
320
310
300
290
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

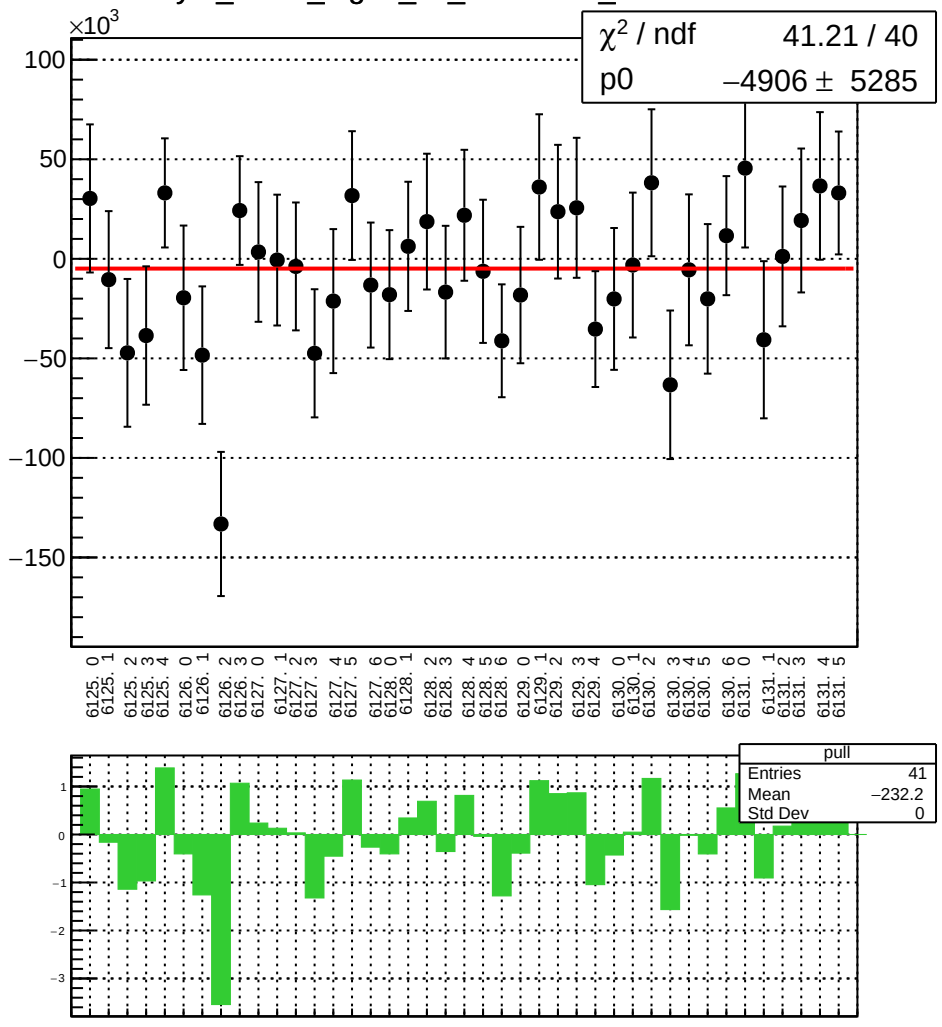

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 41.21 / 40
p0 −4906 ± 5285
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −232.2
Std Dev 0
1
0
−1
−2
−3

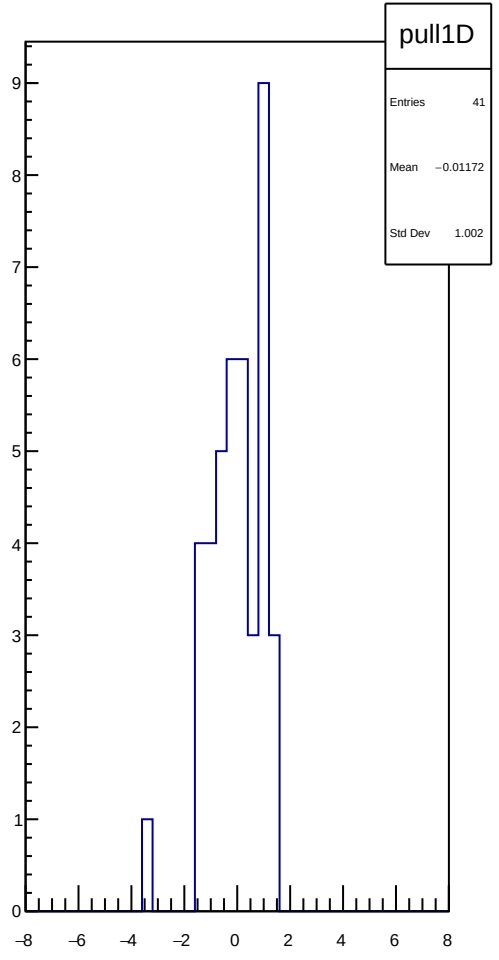

pull1D
Entries 41
Mean −0.01172
Std Dev 1.002
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

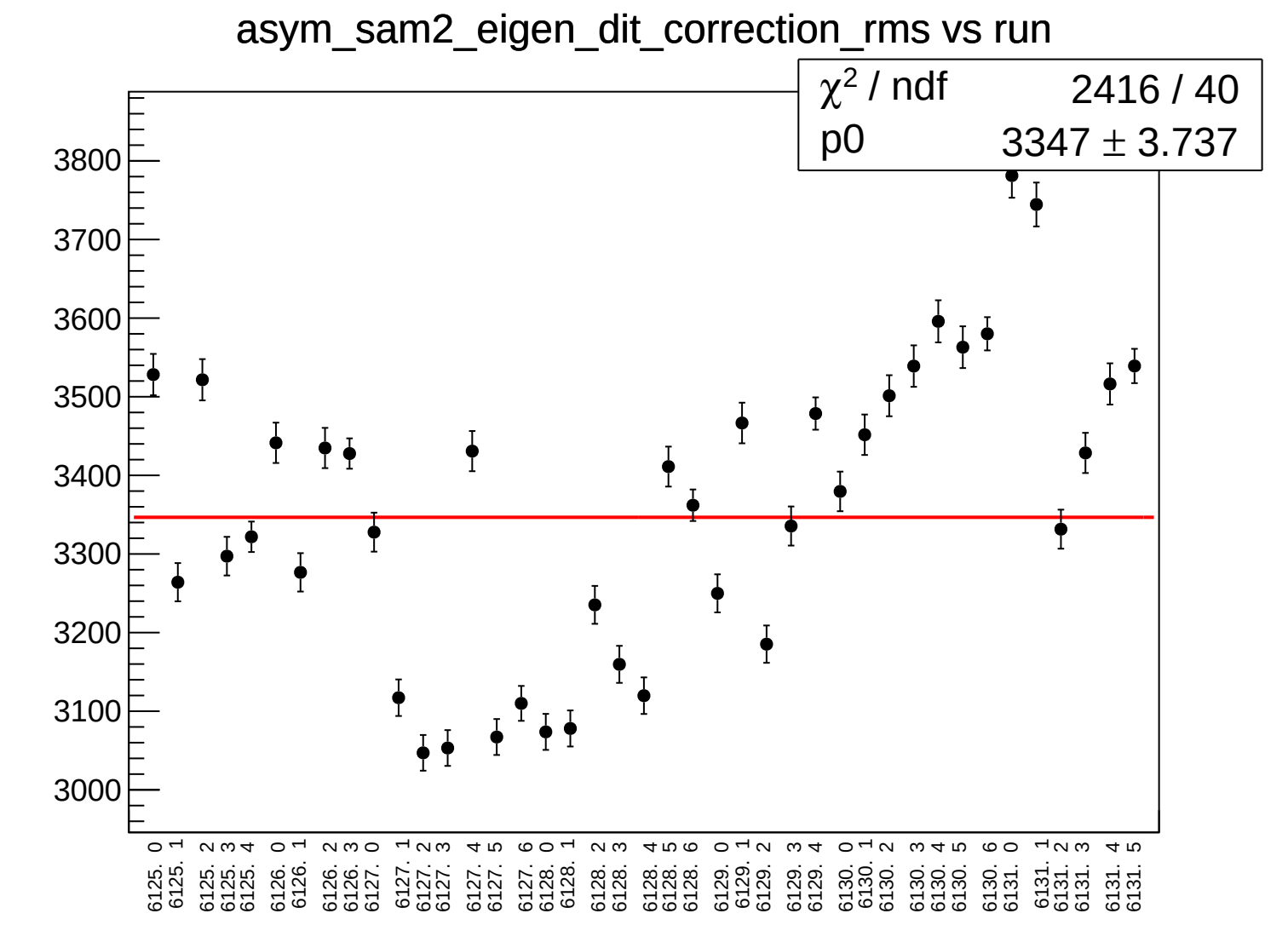

asym_sam2_dit_correction_rms vs run
χ² / ndf 2416 / 40
p0 3347 ± 3.737
3800
3700
3600
3500
3400
3300
3200
3100
3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

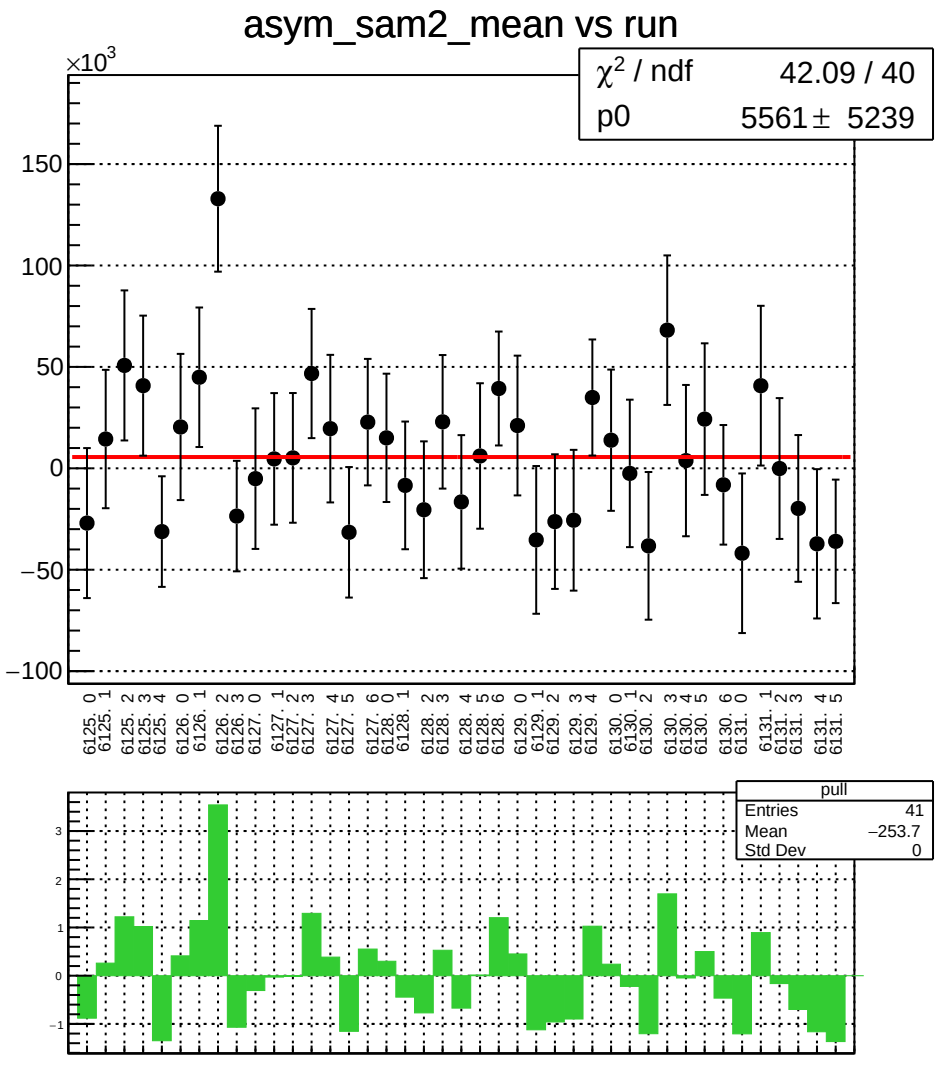

eigen_dit_asym_sam2_mean vs run
χ² / ndf 40.47 / 40
p0 682.5 ± 482.8
15000
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 570.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.00392
Std Dev 0.9935
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

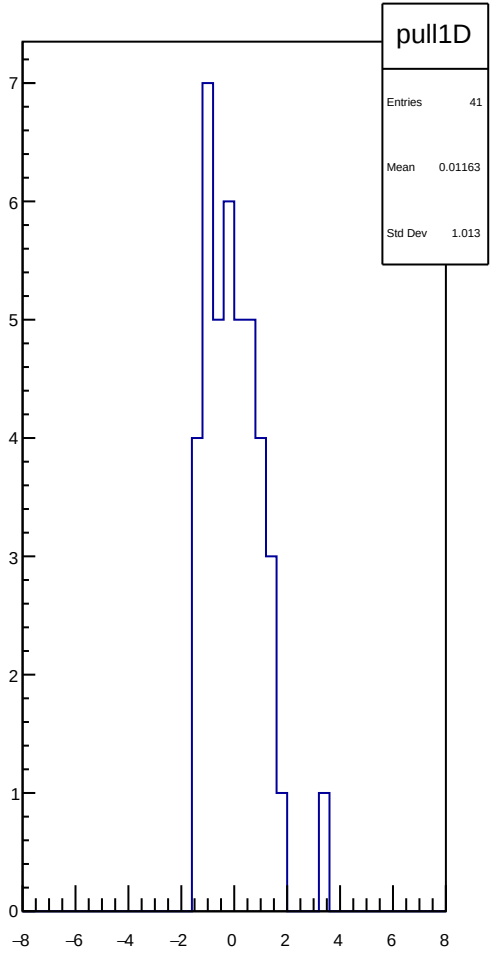

eigen_dit_asym_sam2_rms vs run
χ² / ndf 754.6 / 40
p0 306 ± 0.3414
350
340
330
320
310
300
290
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

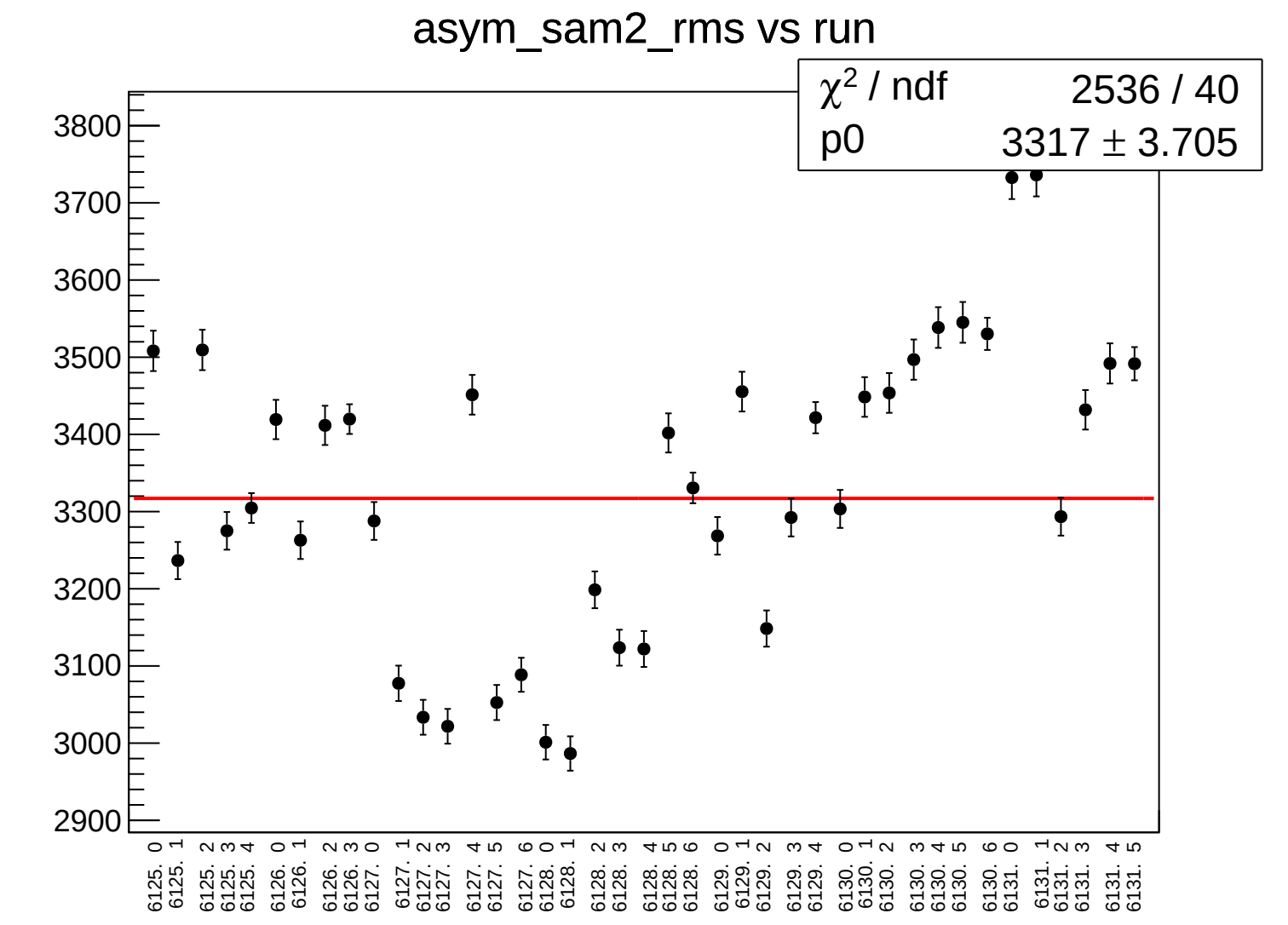

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.21 / 40
p0 −4906 ± 5285
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −232.2
Std Dev 0
1
0
−1
−2
−3

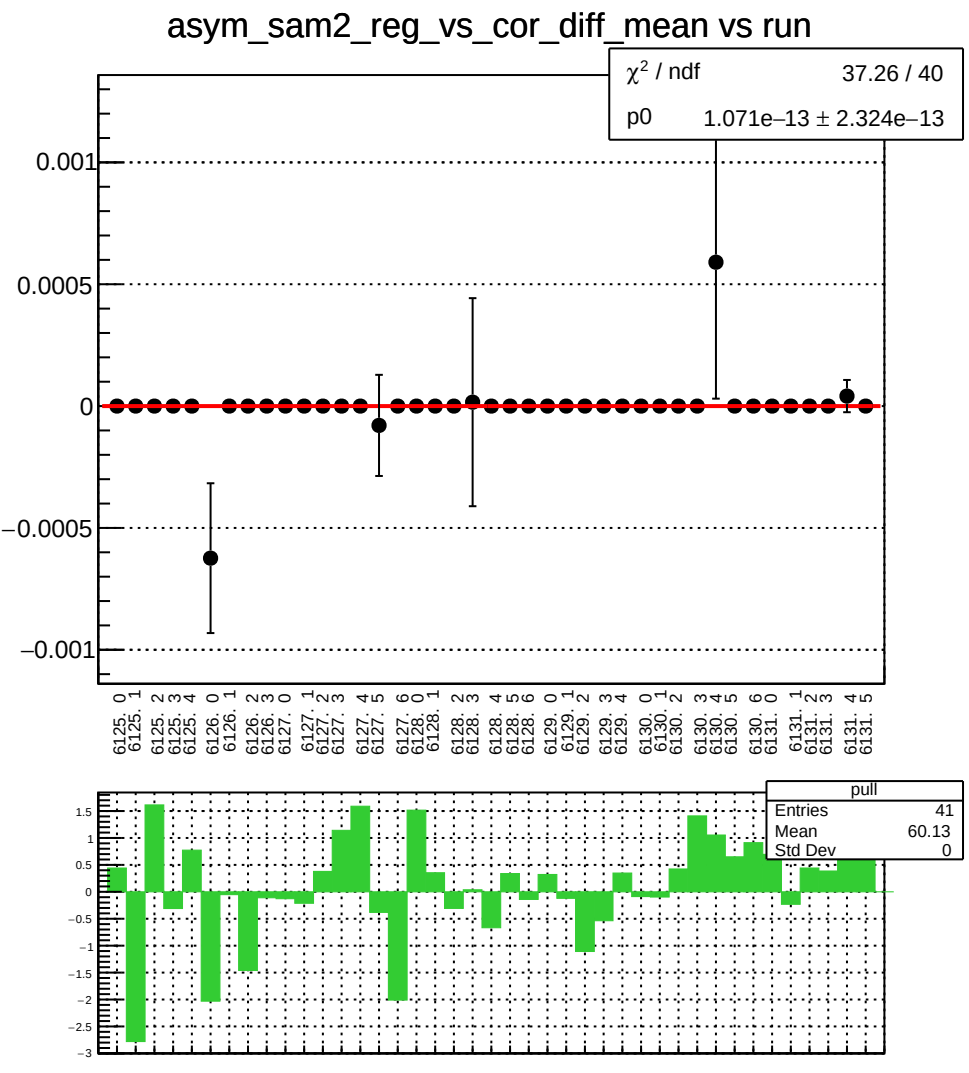

pull1D
Entries 41
Mean −0.01172
Std Dev 1.002
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

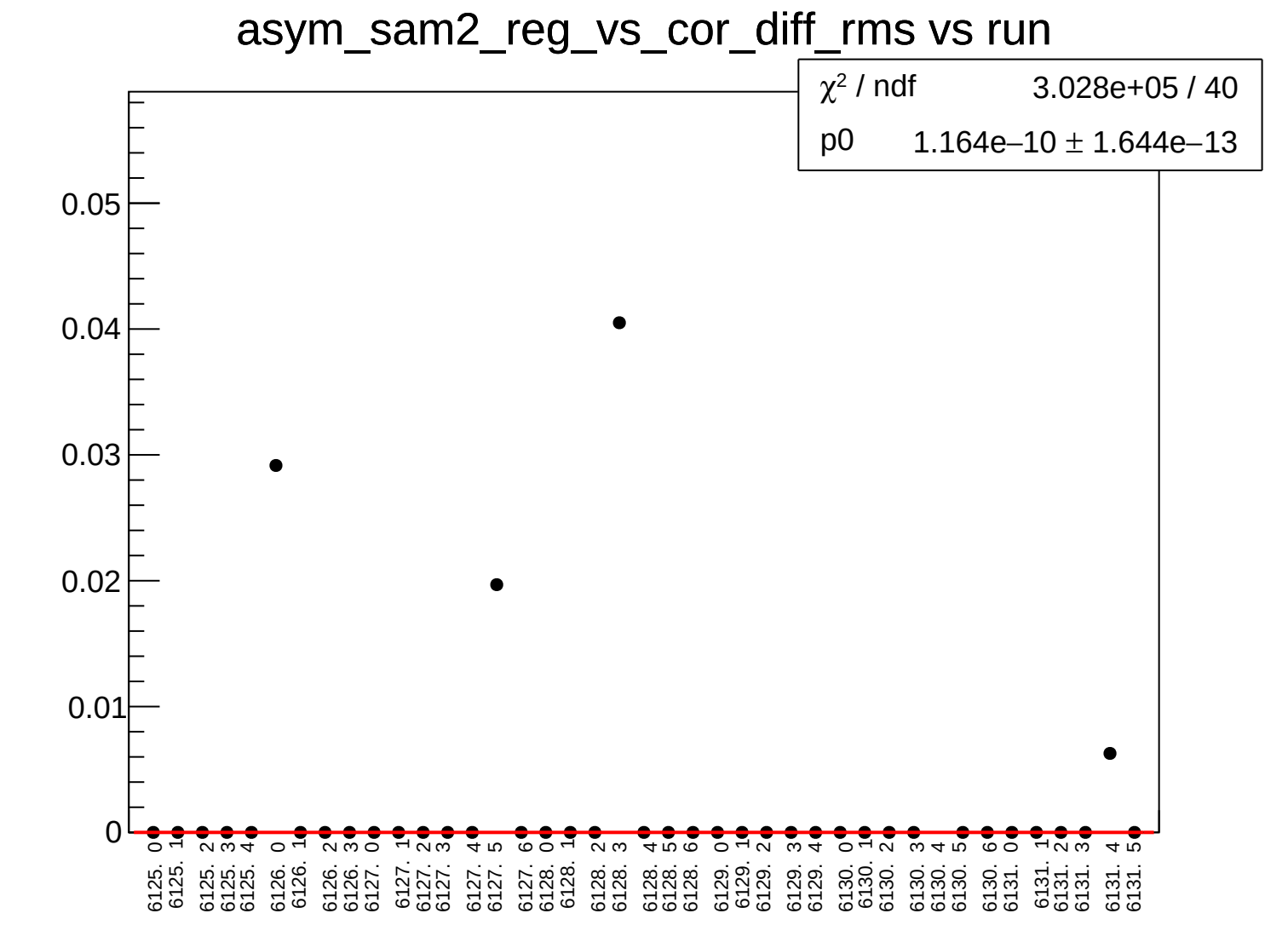

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 2416 / 40
p0 3347 ± 3.737
3800
3700
3600
3500
3400
3300
3200
3100
3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

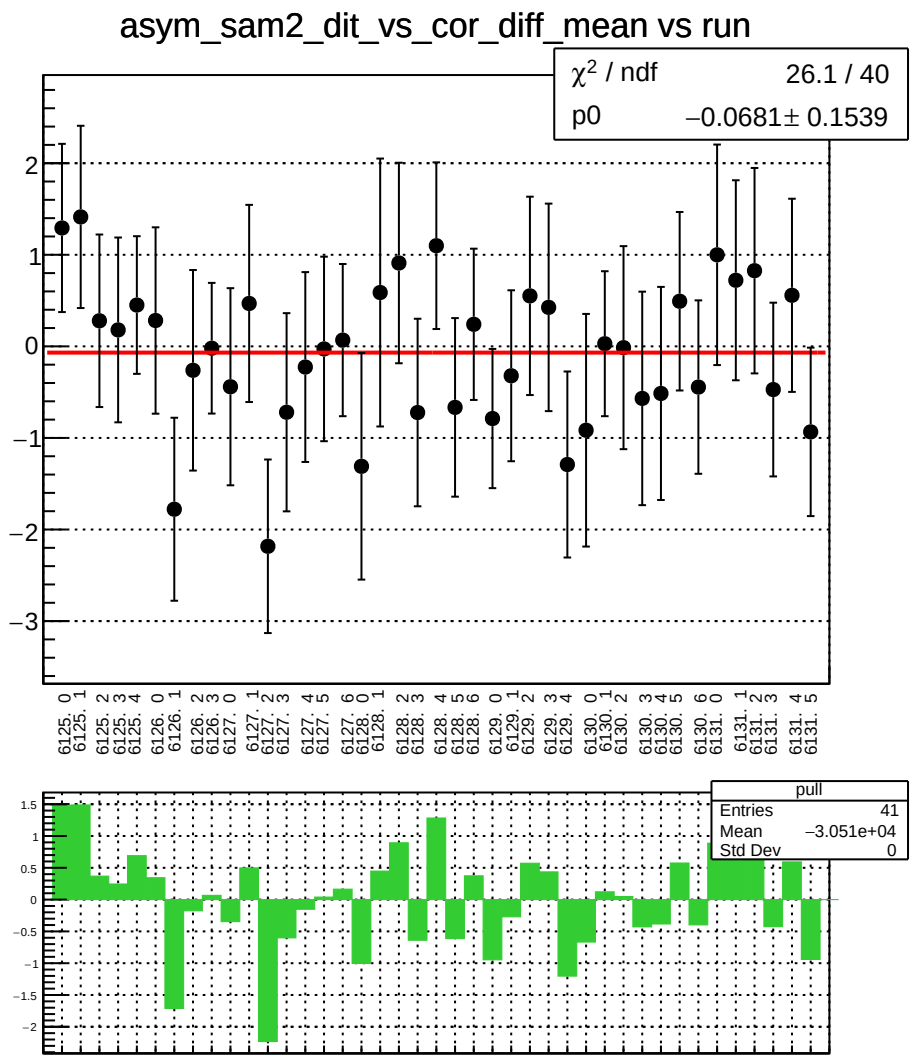

asym_sam2_mean vs run
×10^3
χ^2 / ndf 42.09 / 40
p0 5561 ± 5239
150
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −253.7
Std Dev 0
3
2
1
0
−1

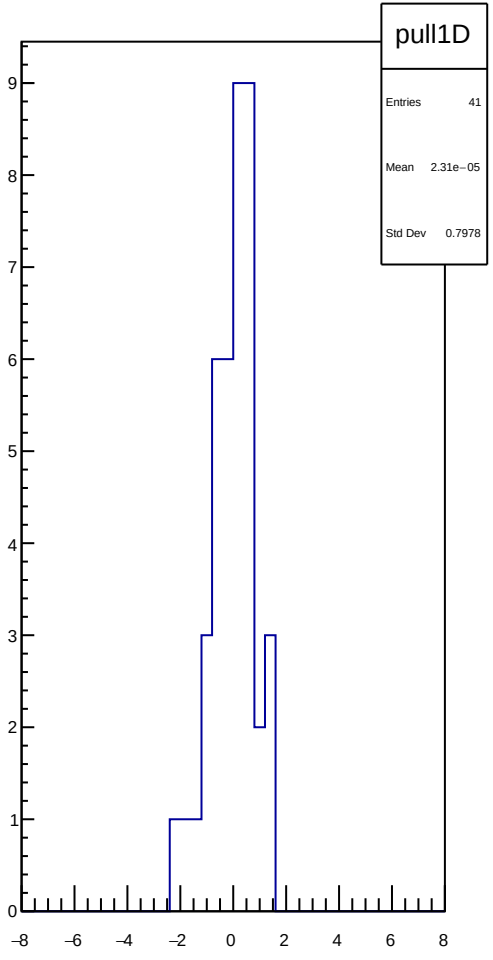

pull1D
Entries 41
Mean 0.01163
Std Dev 1.013
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

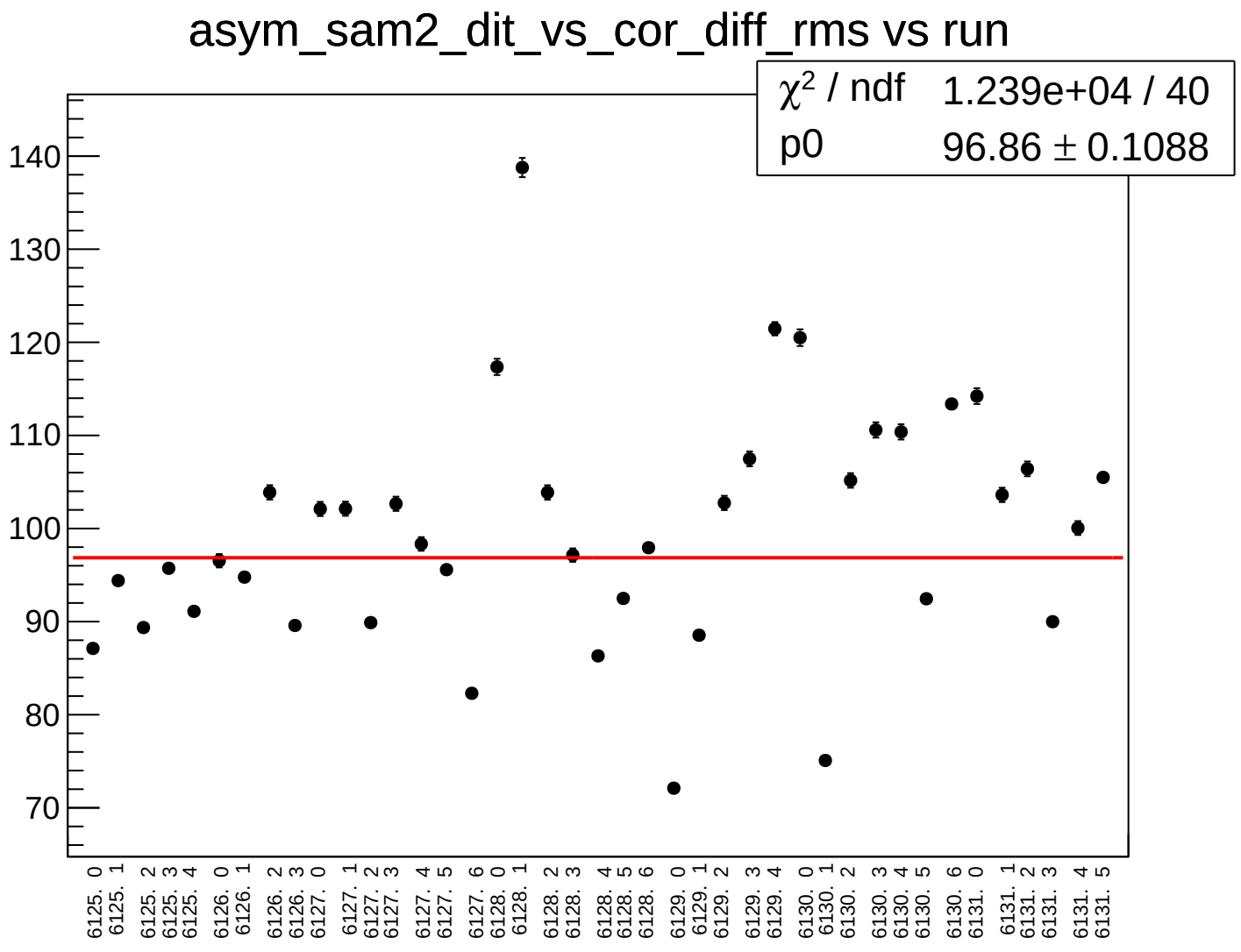

asym_sam2_rms vs run
χ² / ndf 2536 / 40
p0 3317 ± 3.705
3800
3700
3600
3500
3400
3300
3200
3100
3000
2900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

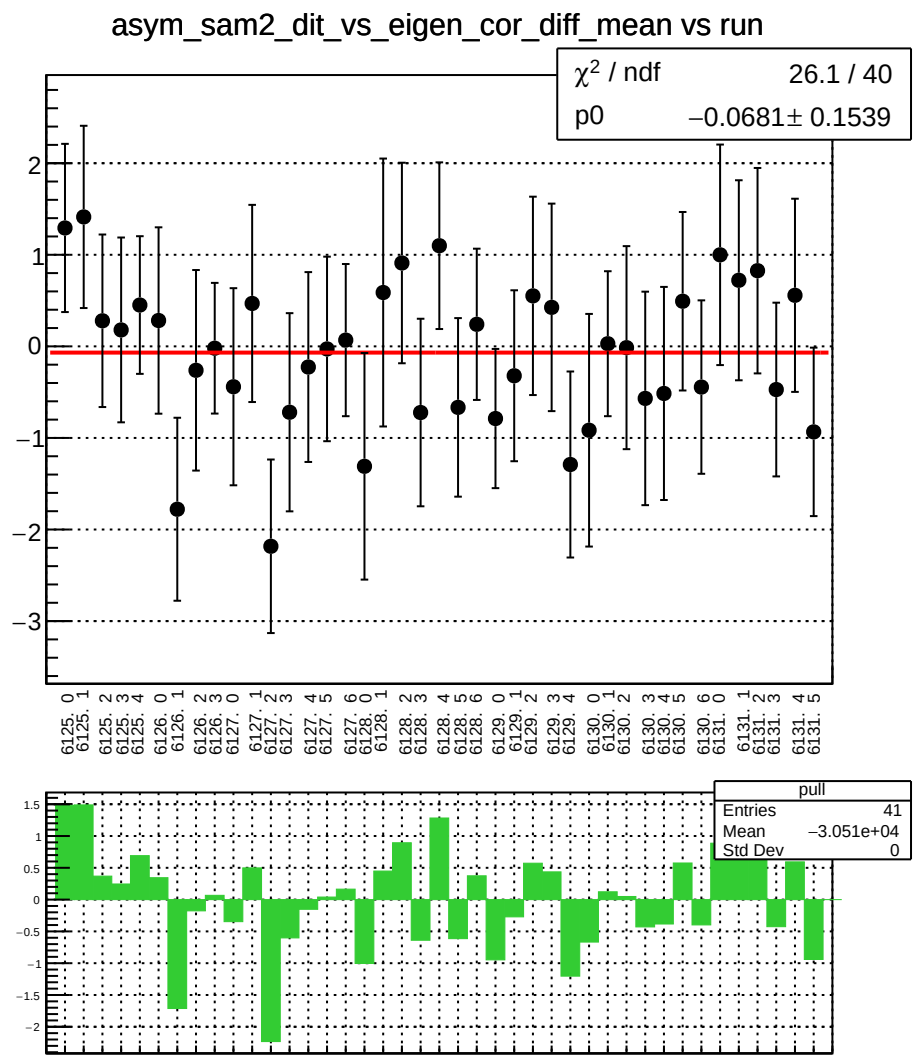

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 37.26 / 40
p0 1.071e−13 ± 2.324e−13
0.001
0.0005
0
−0.0005
−0.001
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 60.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 41
Mean 0.08795
Std Dev 0.9492
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

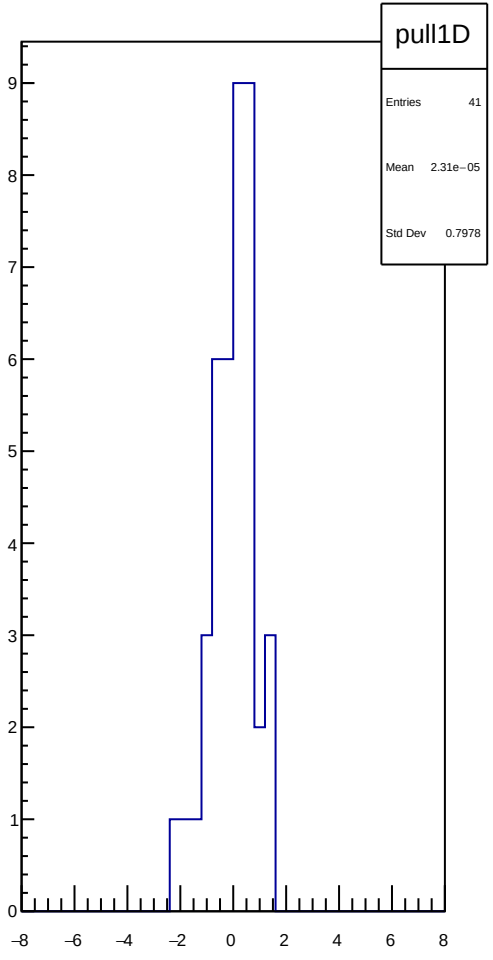

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 3.028e+05 / 40
p0 1.164e−10 ± 1.644e−13
0.05
0.04
0.03
0.02
0.01
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

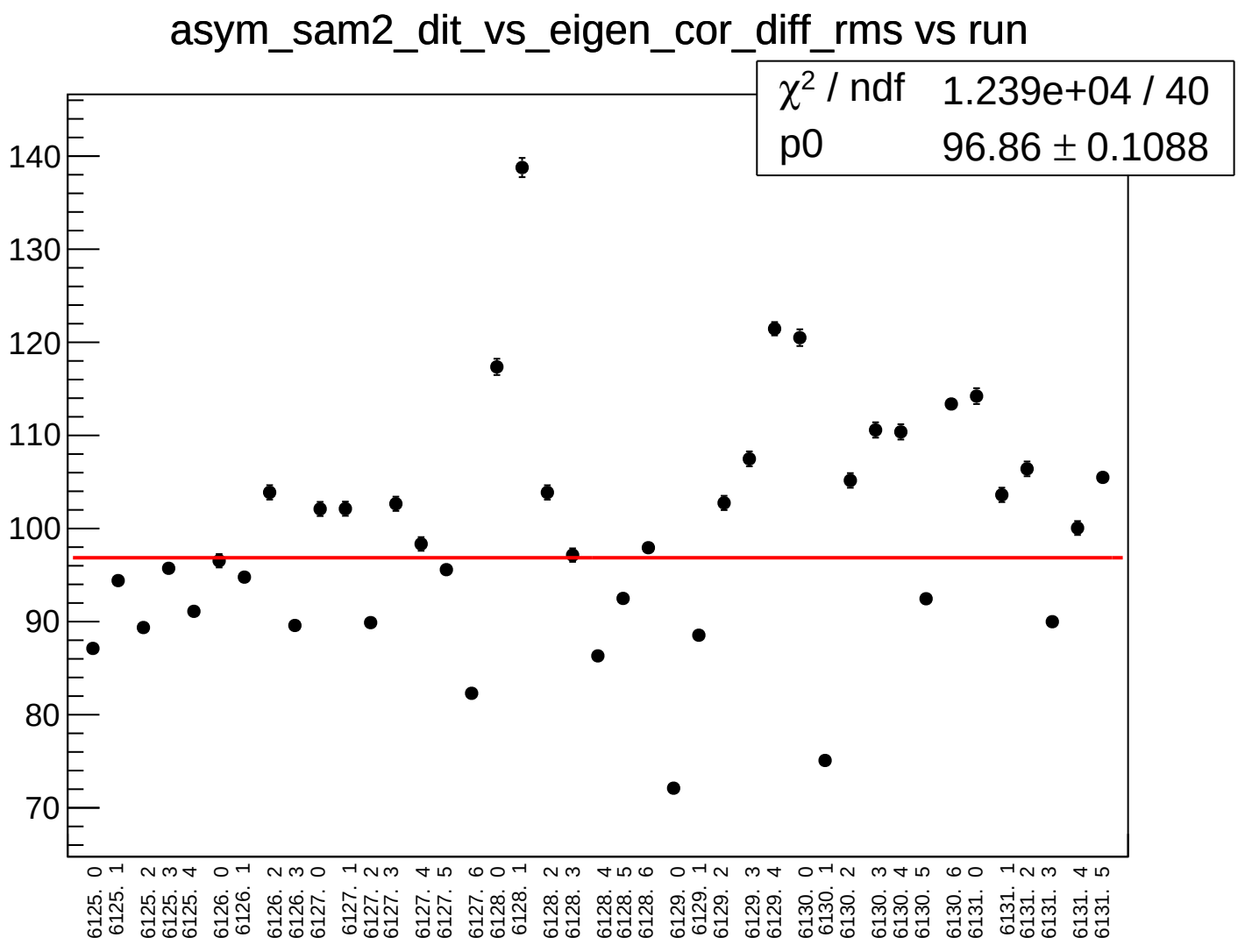

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 26.1 / 40
p0 −0.0681± 0.1539
pull
Entries 41
Mean −3.051e+04
Std Dev 0

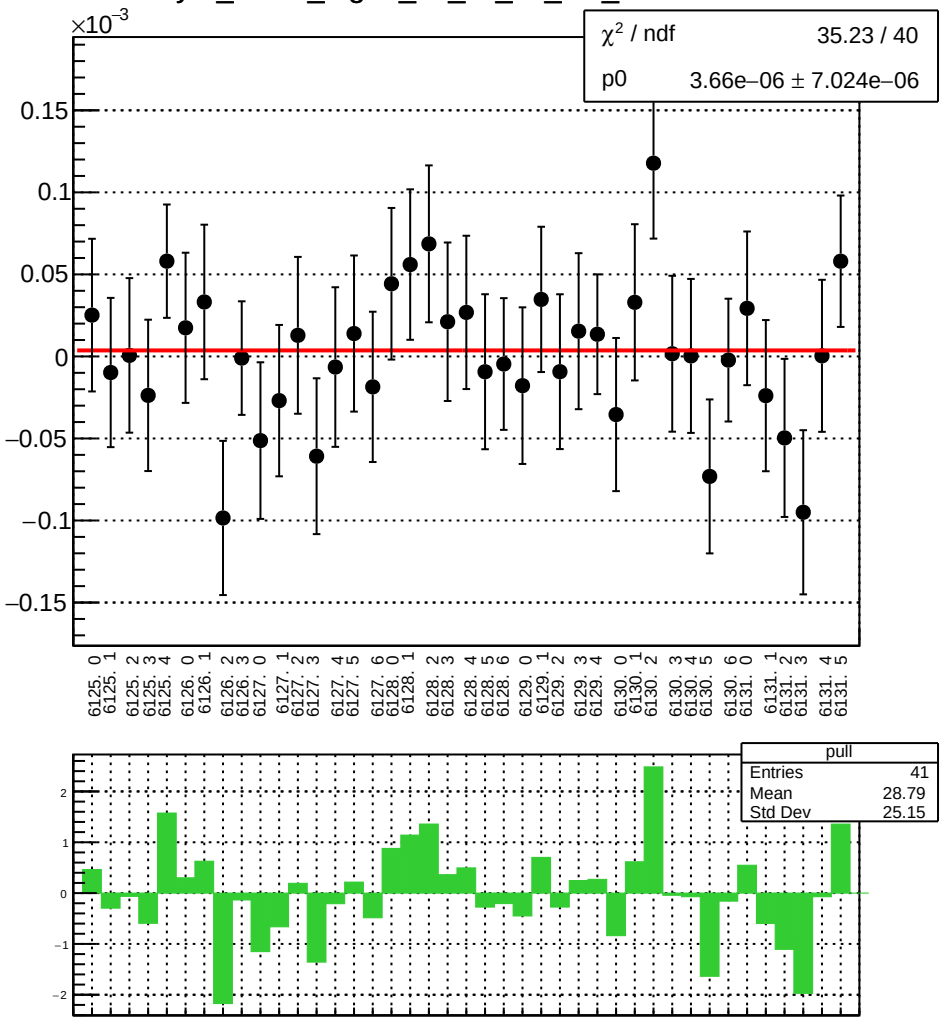

pull1D
Entries 41
Mean 2.31e−05
Std Dev 0.7978

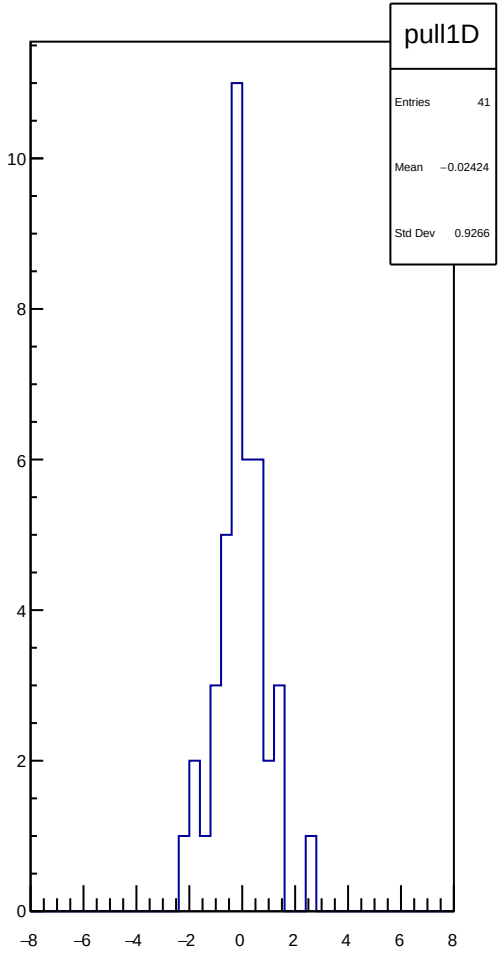

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.239e+04 / 40
p0 96.86 ± 0.1088
140
130
120
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

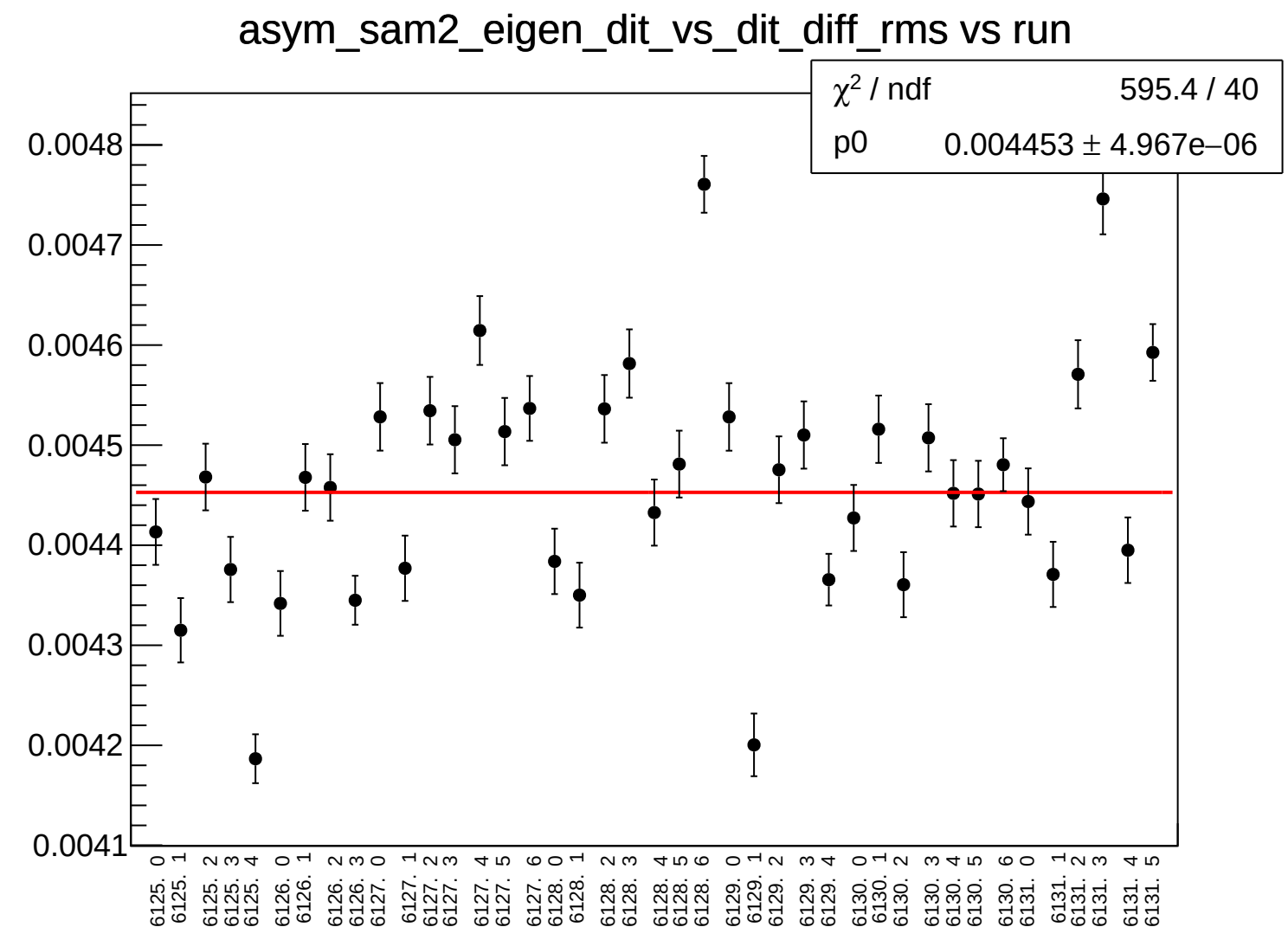

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 26.1 / 40
p0 −0.0681± 0.1539
pull
Entries 41
Mean −3.051e+04
Std Dev 0

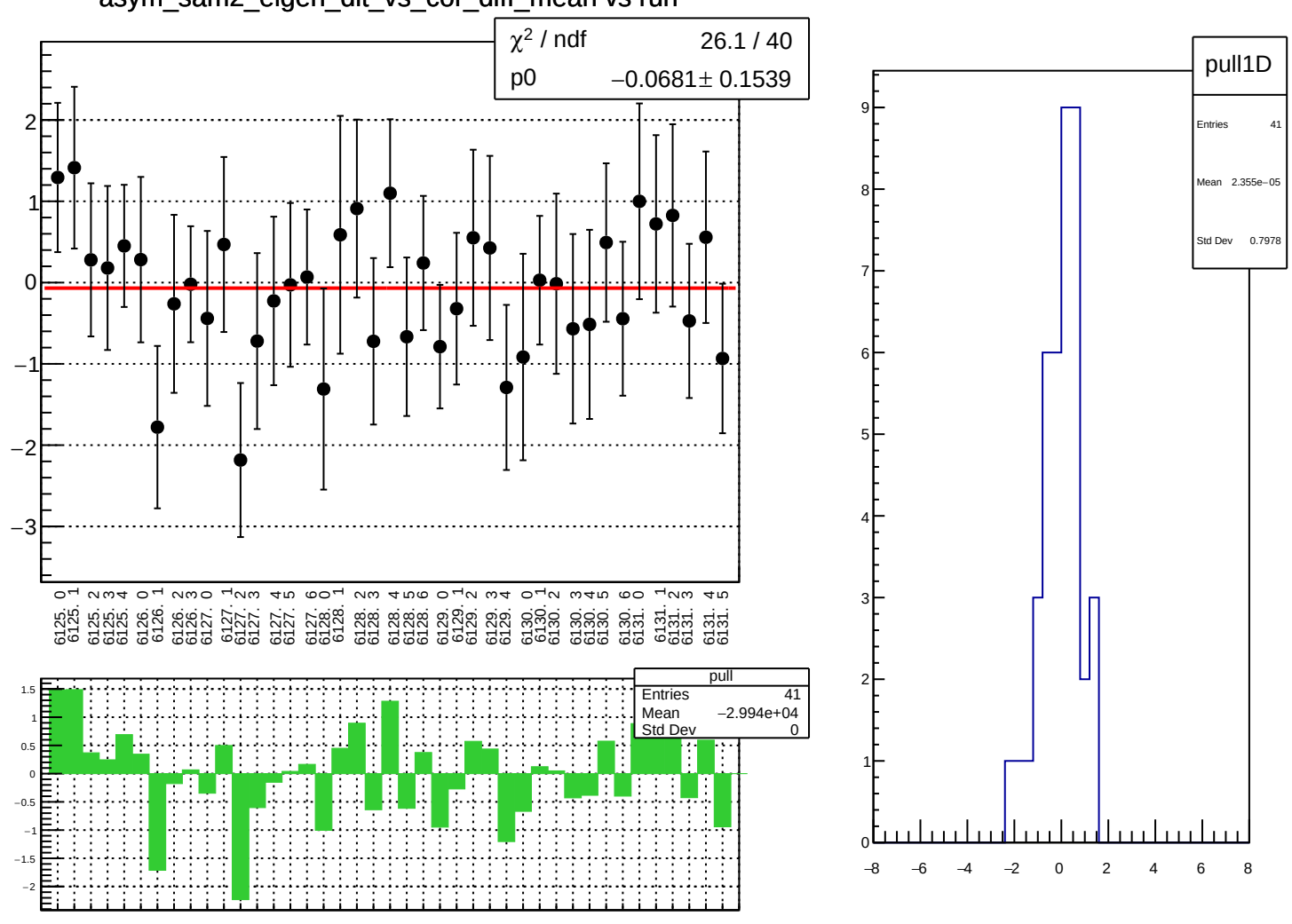

pull1D
Entries 41
Mean 2.31e−05
Std Dev 0.7978

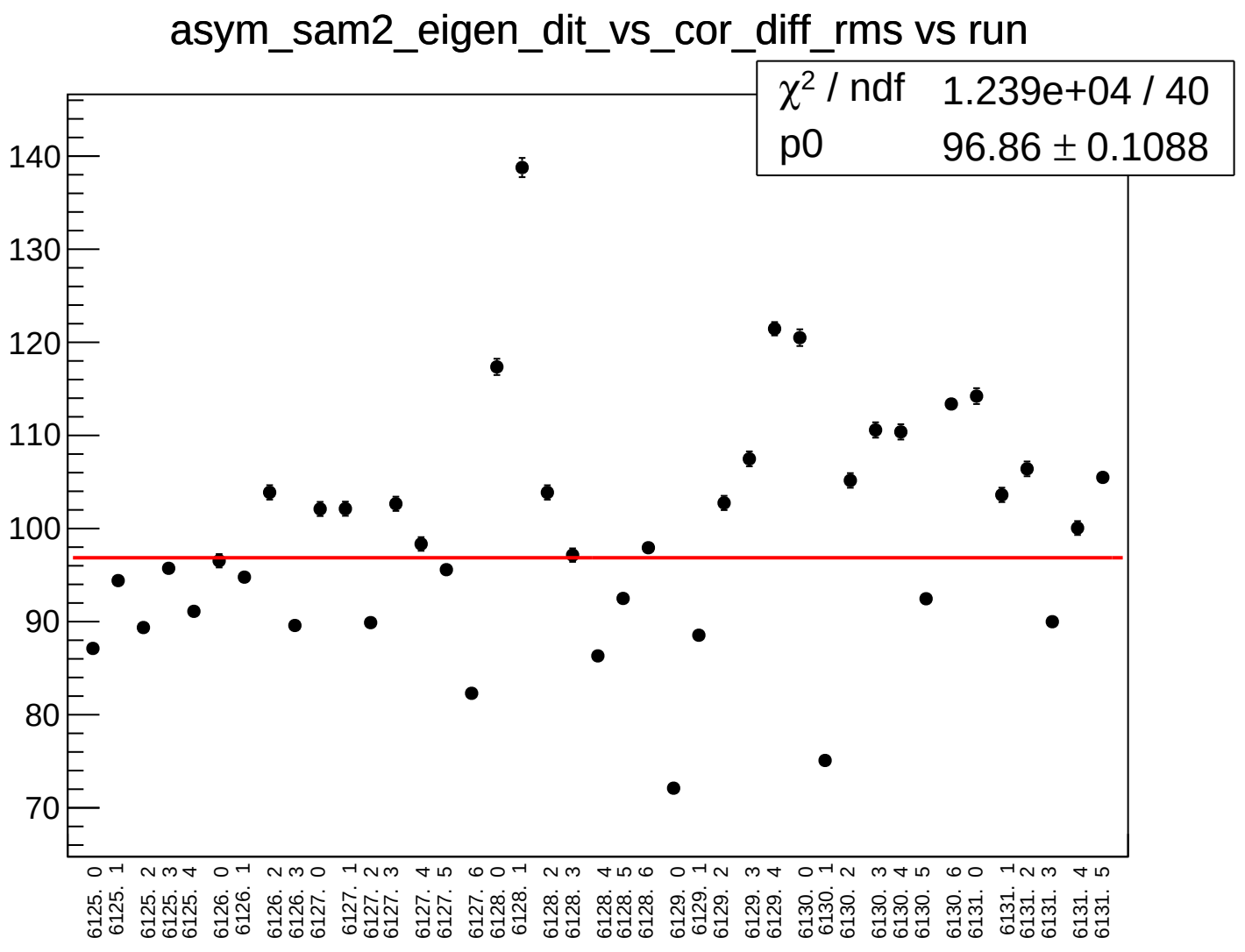

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.239e+04 / 40
p0 96.86 ± 0.1088
140
130
120
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

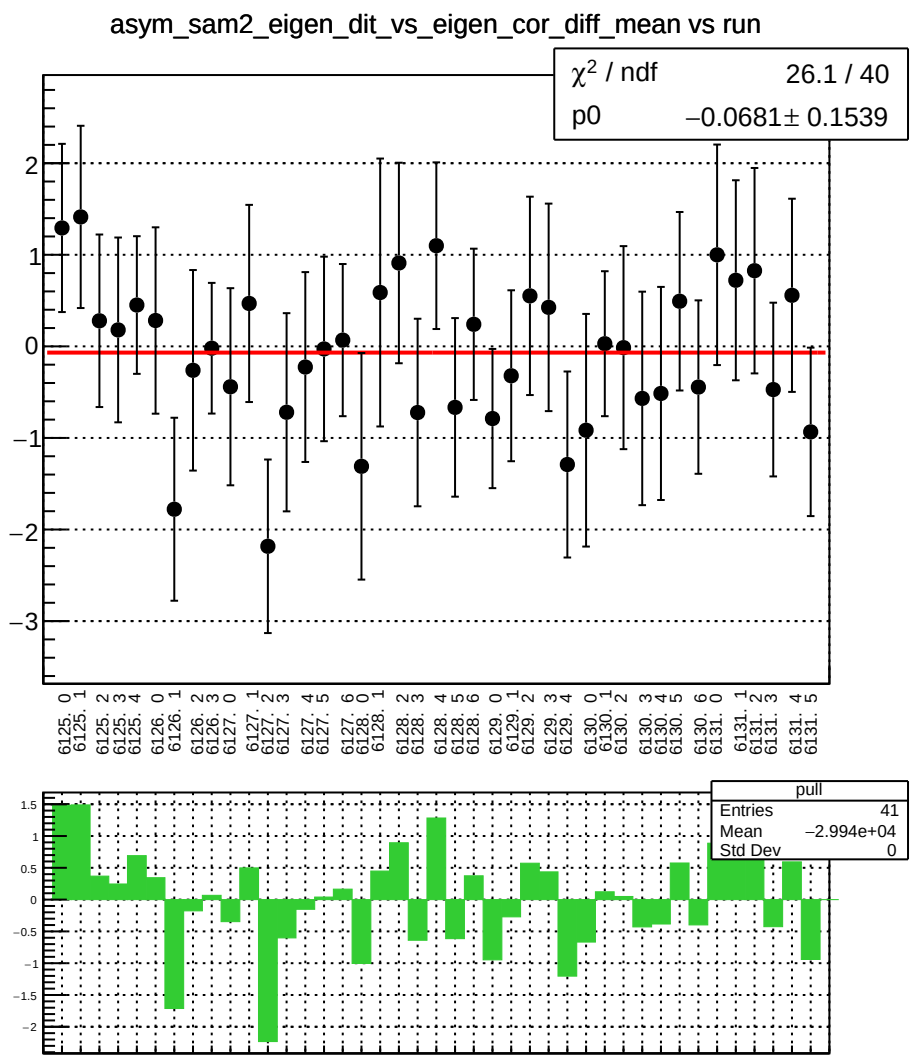

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 35.23 / 40
p0 3.66e−06 ± 7.024e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 28.79
Std Dev 25.15
2
1
0
−1
−2

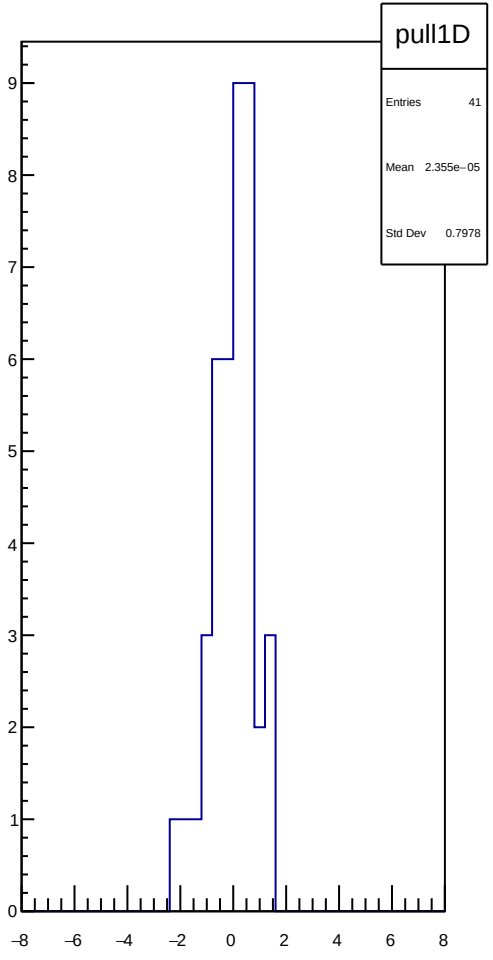

pull1D
Entries 41
Mean −0.02424
Std Dev 0.9266
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

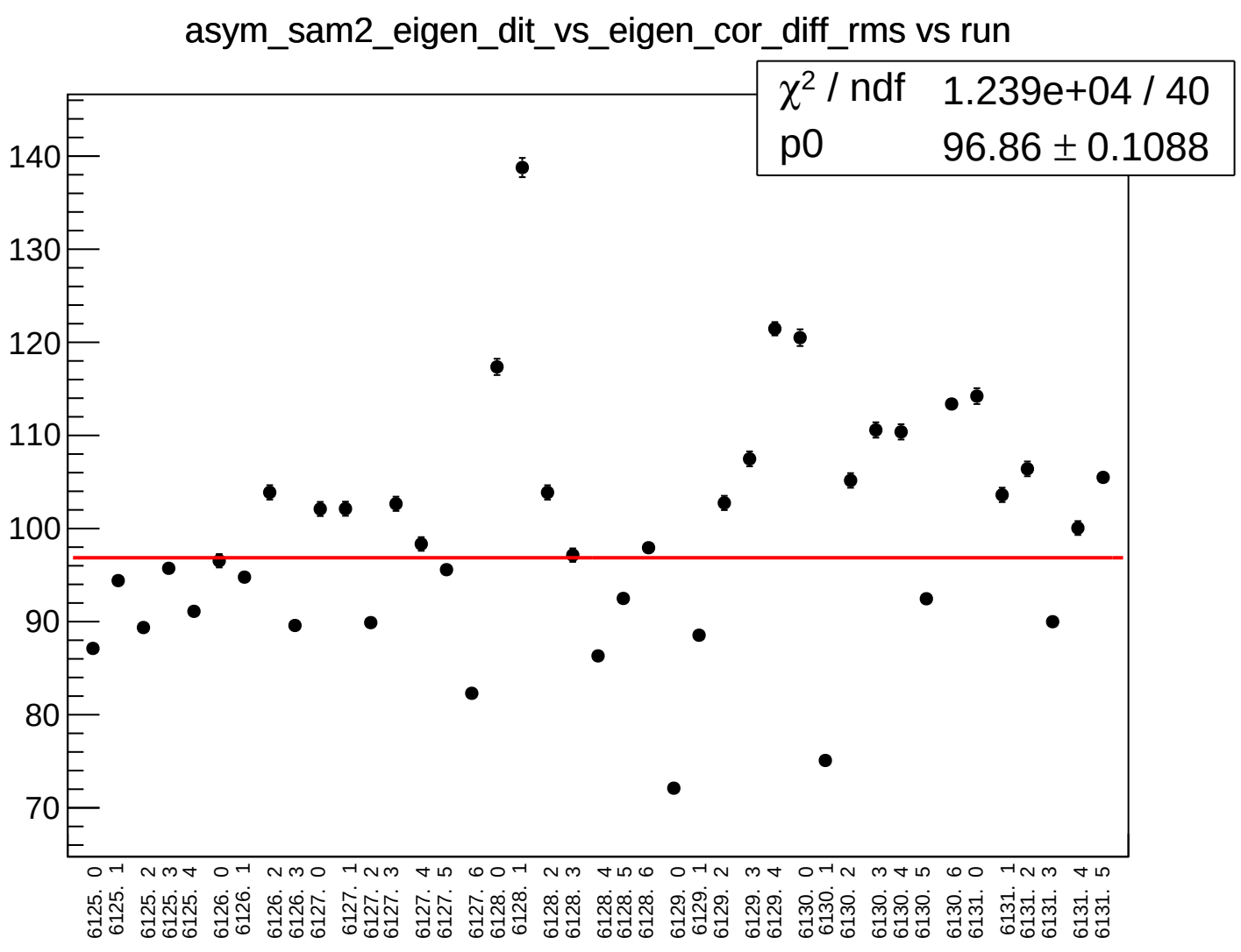

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 595.4 / 40
p0 0.004453 ± 4.967e−06
0.0048
0.0047
0.0046
0.0045
0.0044
0.0043
0.0042
0.0041
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

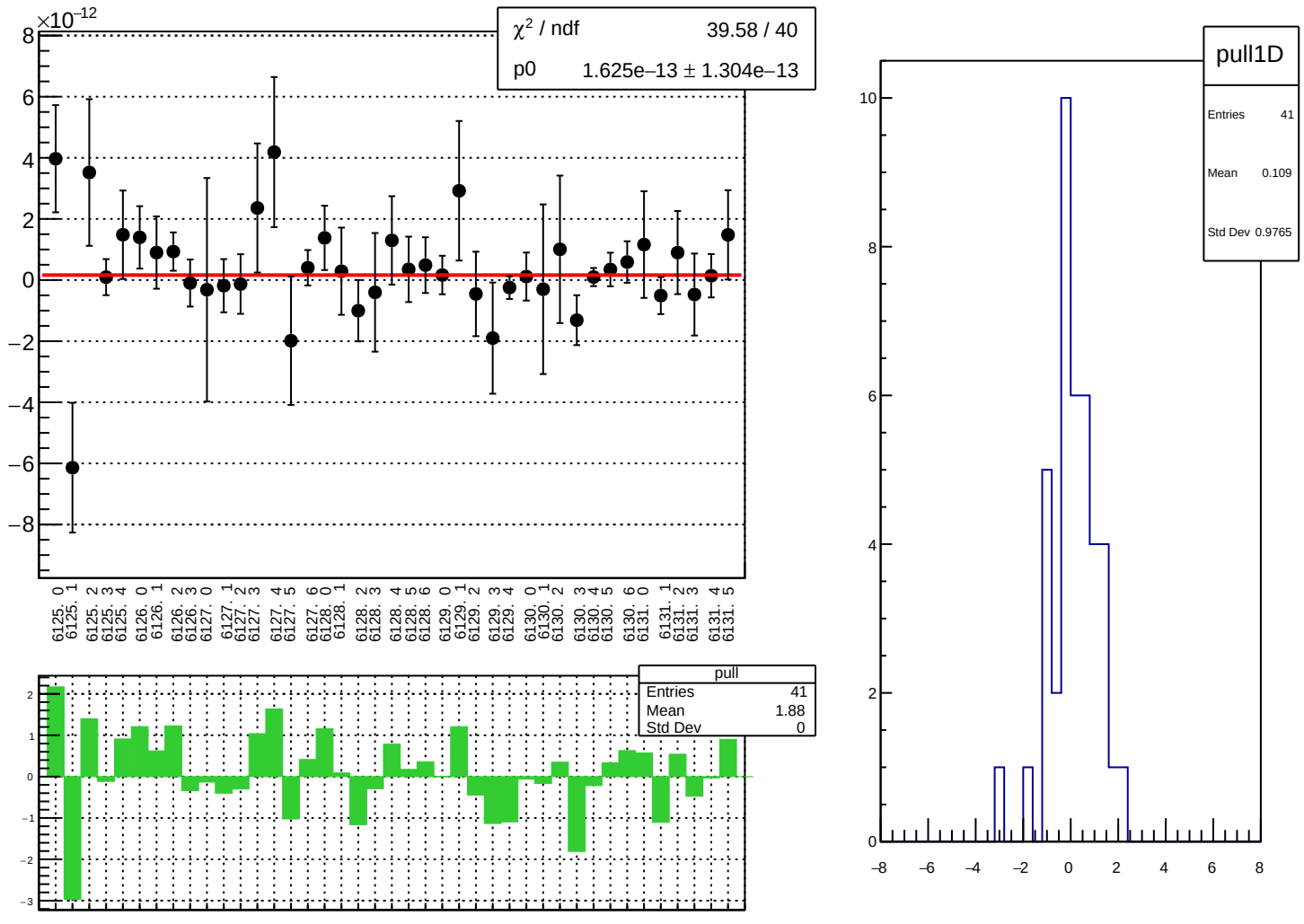

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 26.1 / 40
p0 −0.0681± 0.1539
pull
Entries 41
Mean −2.994e+04
Std Dev 0
pull1D
Entries 41
Mean 2.355e−05
Std Dev 0.7978

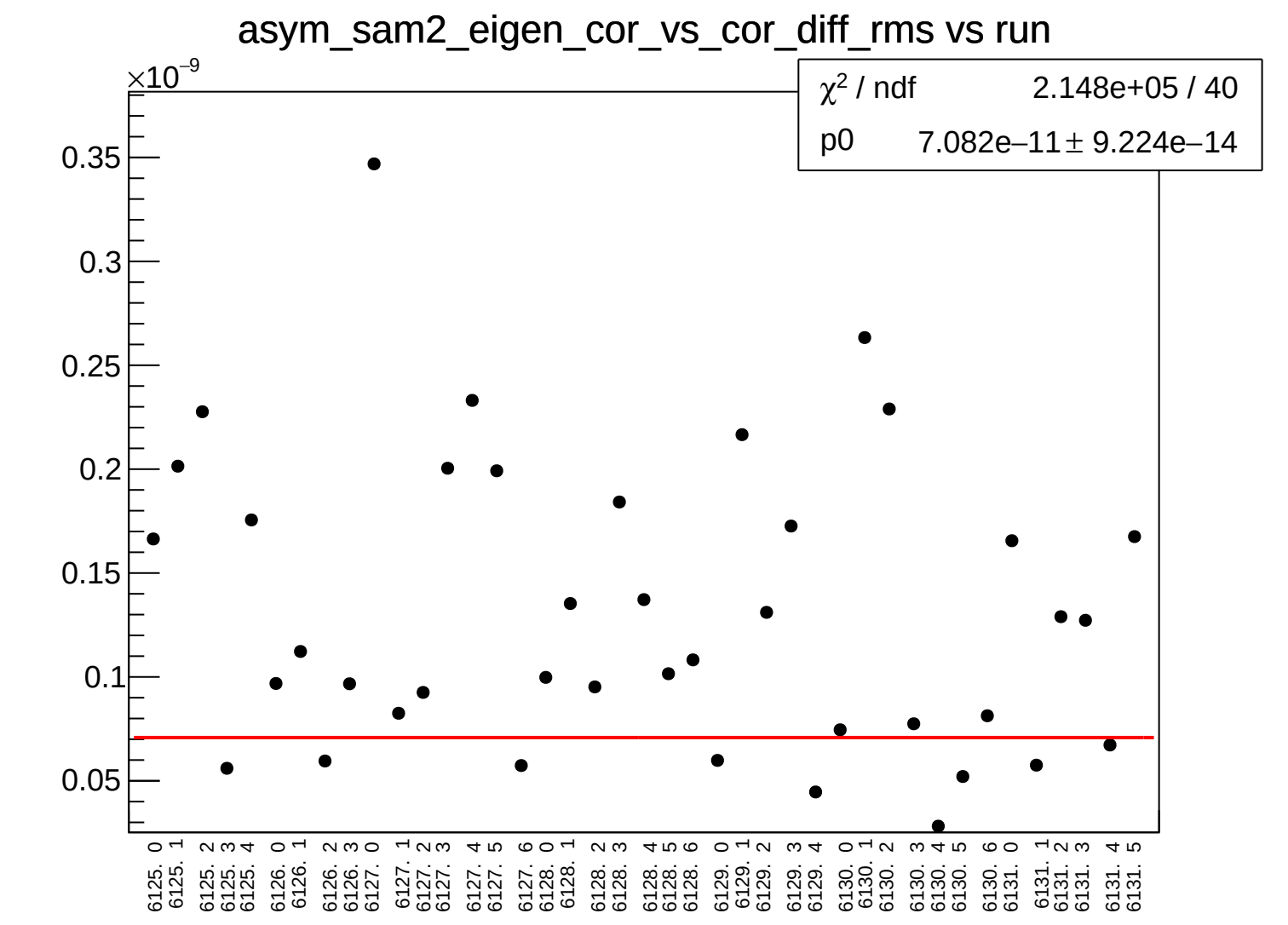

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.239e+04 / 40
p0 96.86 ± 0.1088
140
130
120
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

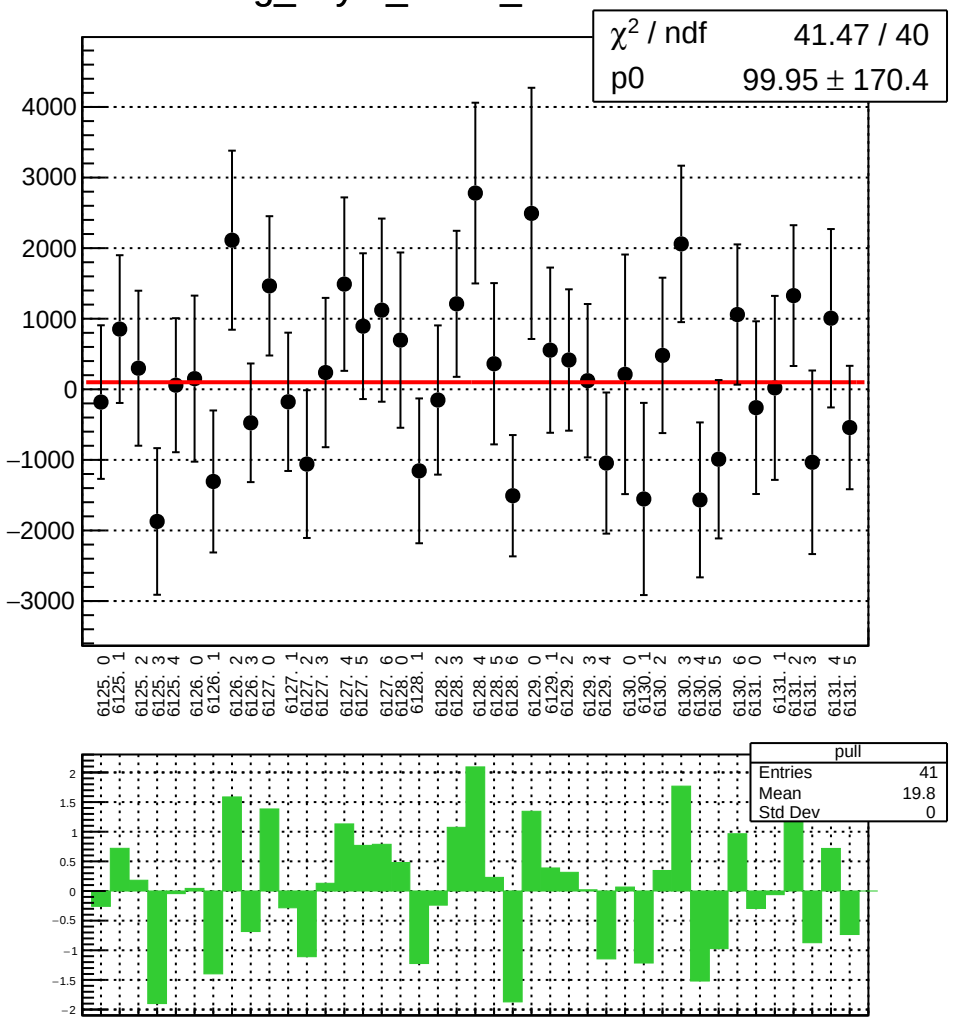

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 26.1 / 40
p0 −0.0681± 0.1539
pull
Entries 41
Mean −2.994e+04
Std Dev 0

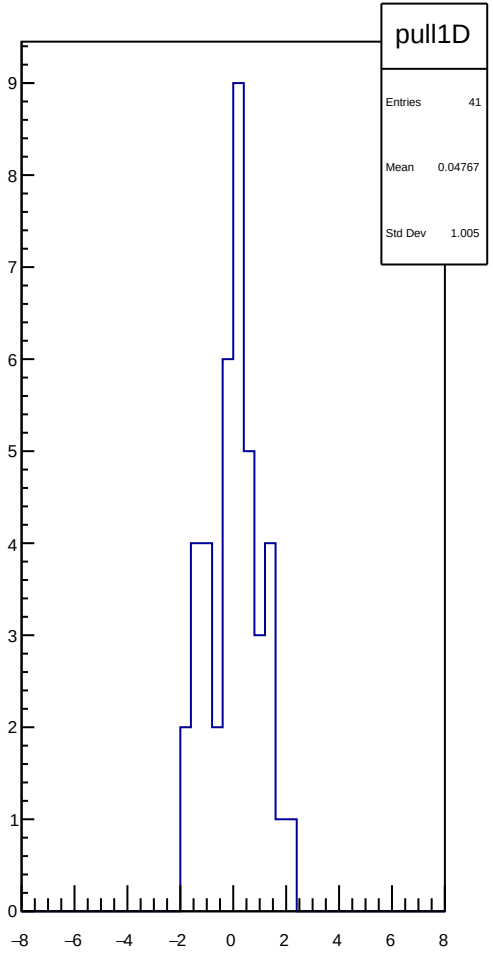

pull1D
Entries 41
Mean 2.355e−05
Std Dev 0.7978

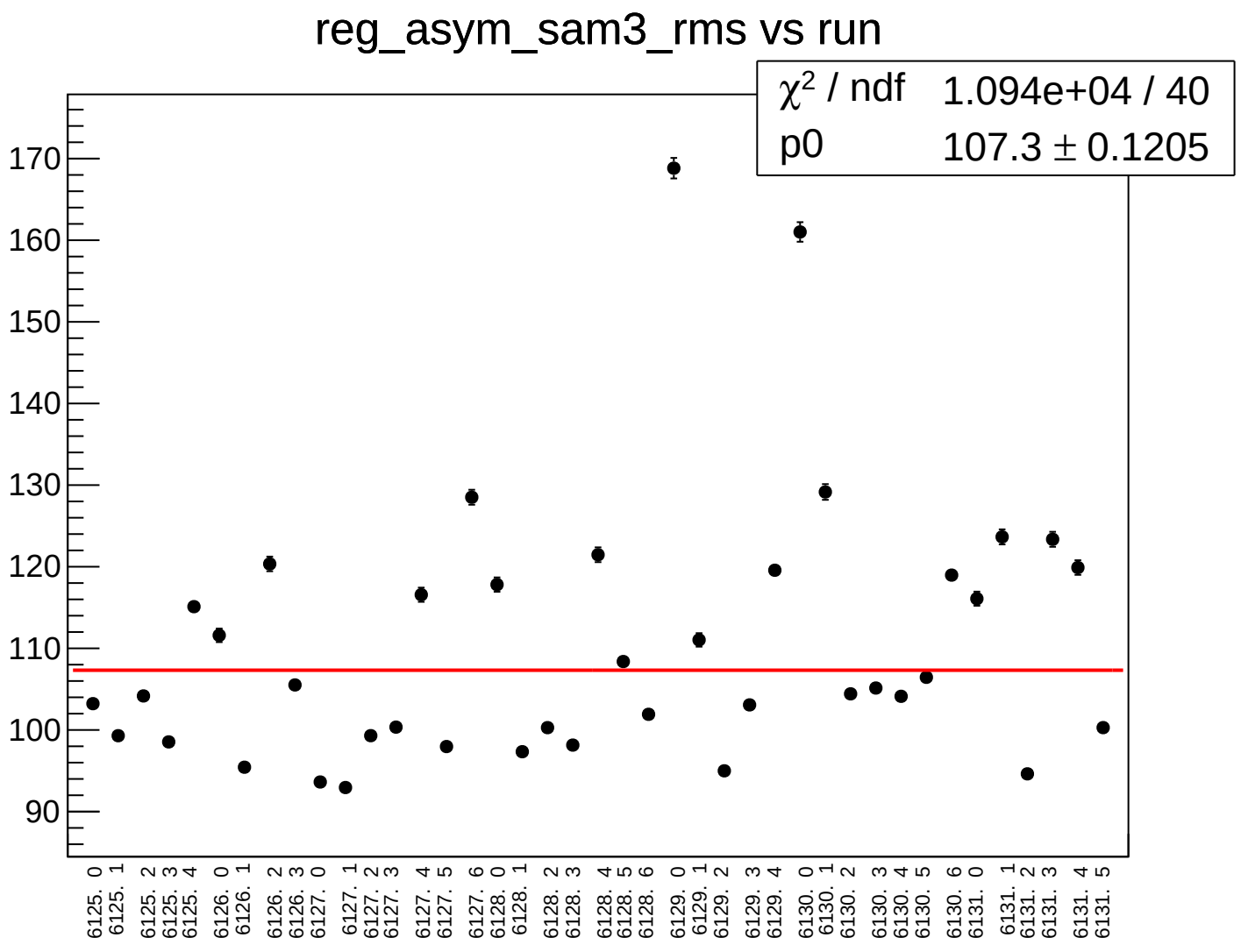

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.239e+04 / 40
p0 96.86 ± 0.1088
140
130
120
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

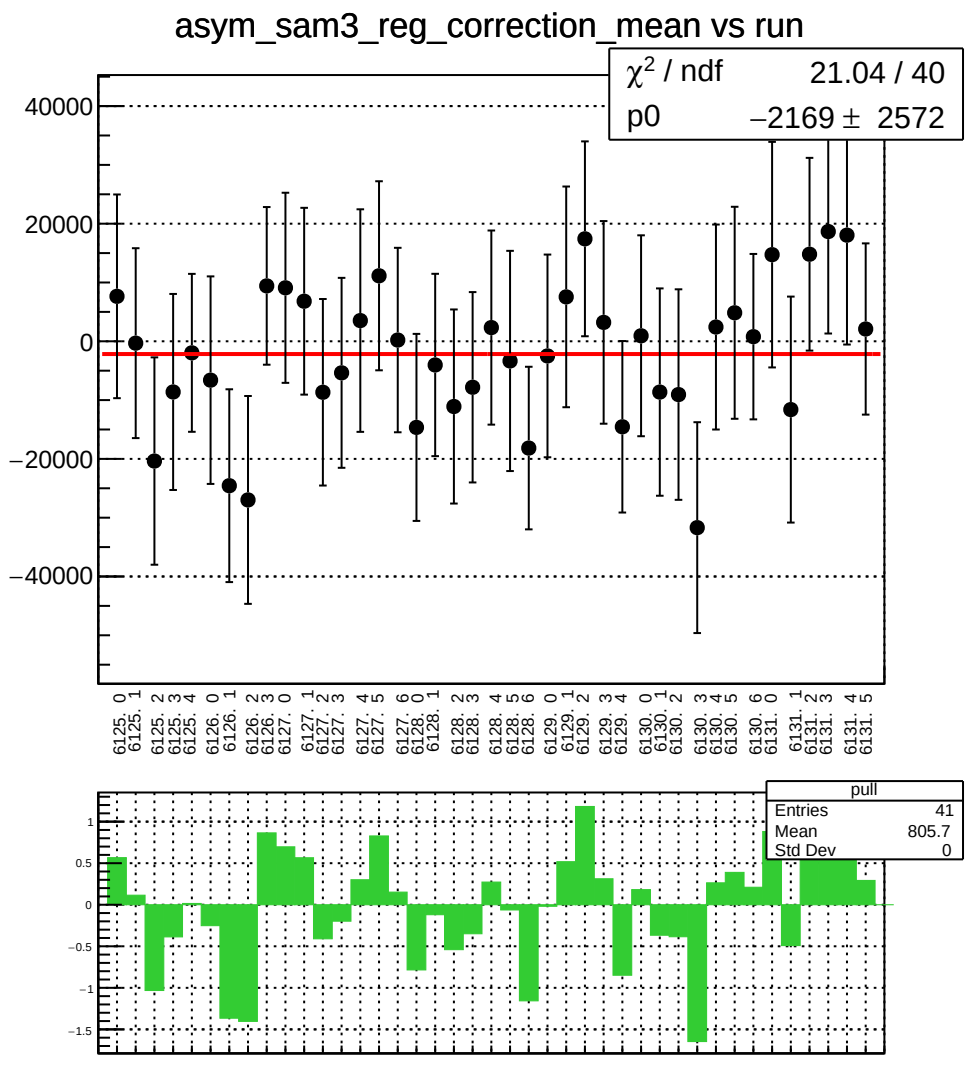

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 39.58 / 40
p0 1.625e−13 ± 1.304e−13
pull
Entries 41
Mean 1.88
Std Dev 0
pull1D
Entries 41
Mean 0.109
Std Dev 0.9765

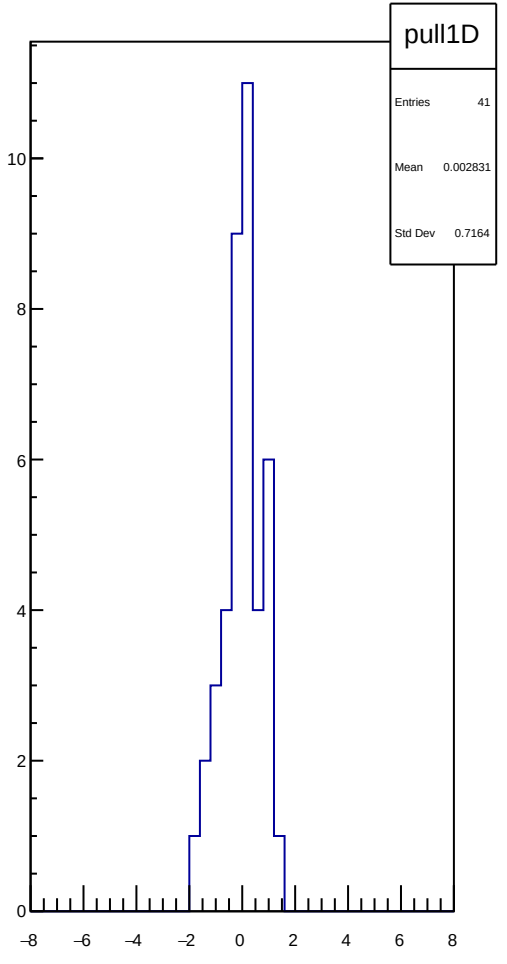

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.148e+05 / 40
p0 7.082e−11 ± 9.224e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

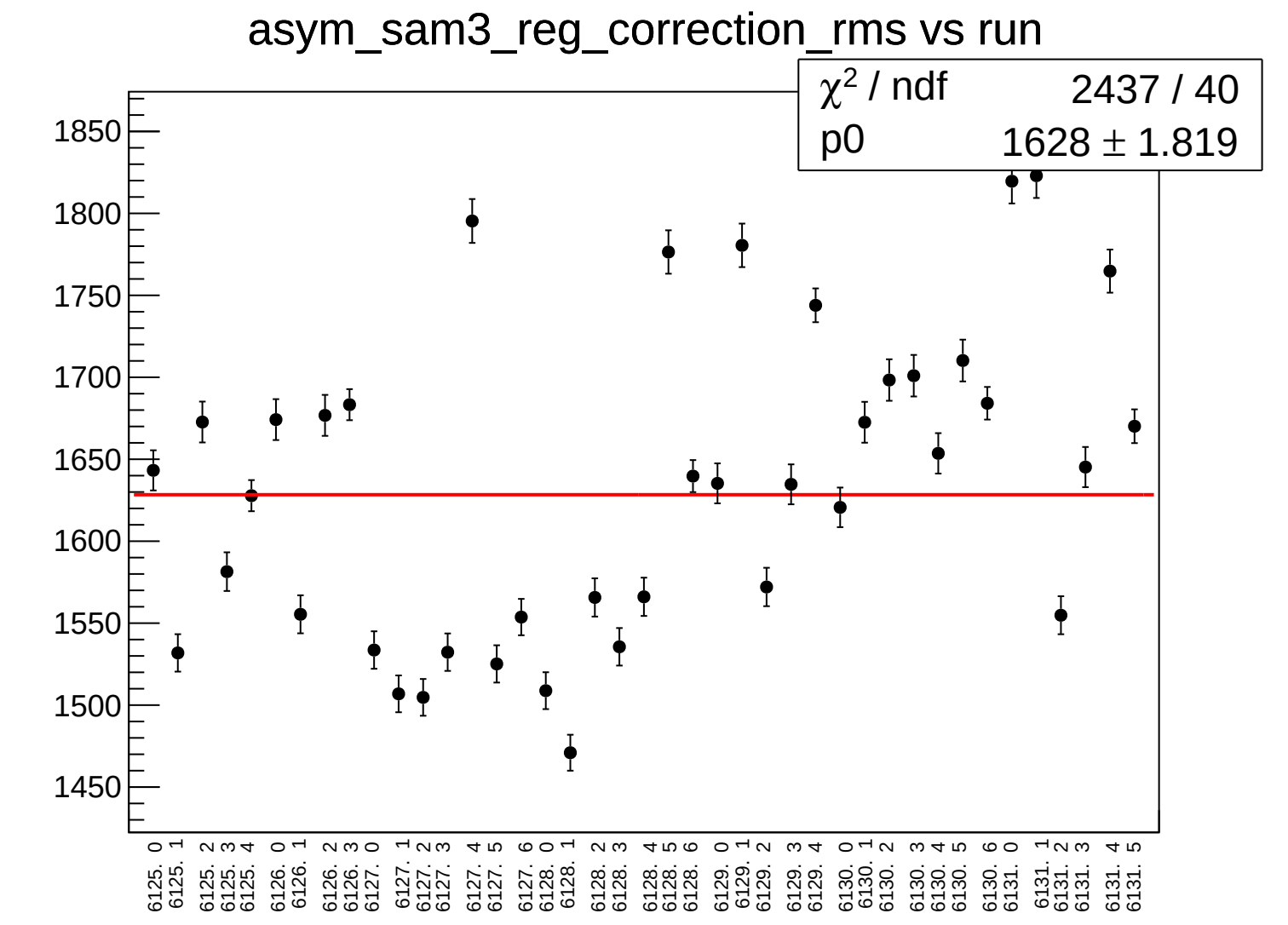

reg_asym_sam3_mean vs run
χ^2 / ndf 41.47 / 40
p0 99.95 ± 170.4
4000
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 19.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

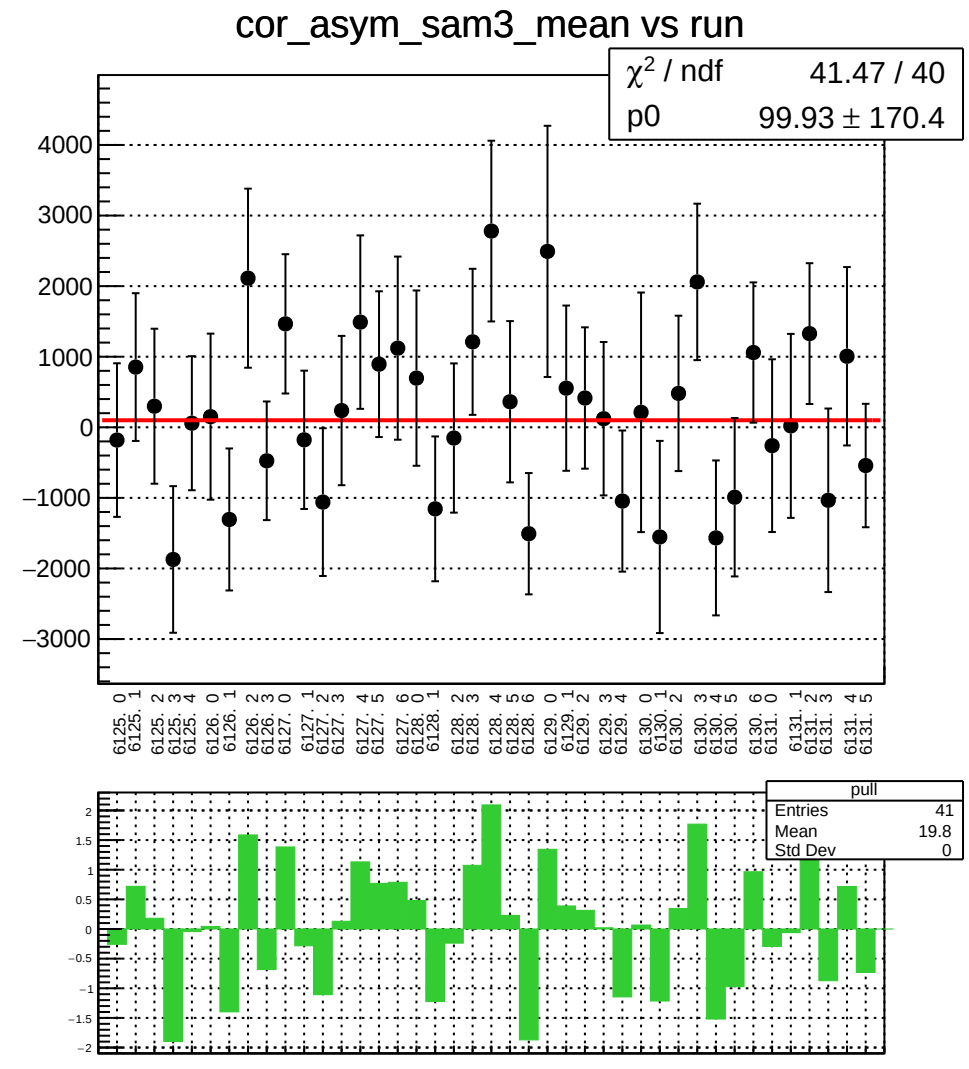

pull1D
Entries 41
Mean 0.04767
Std Dev 1.005
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

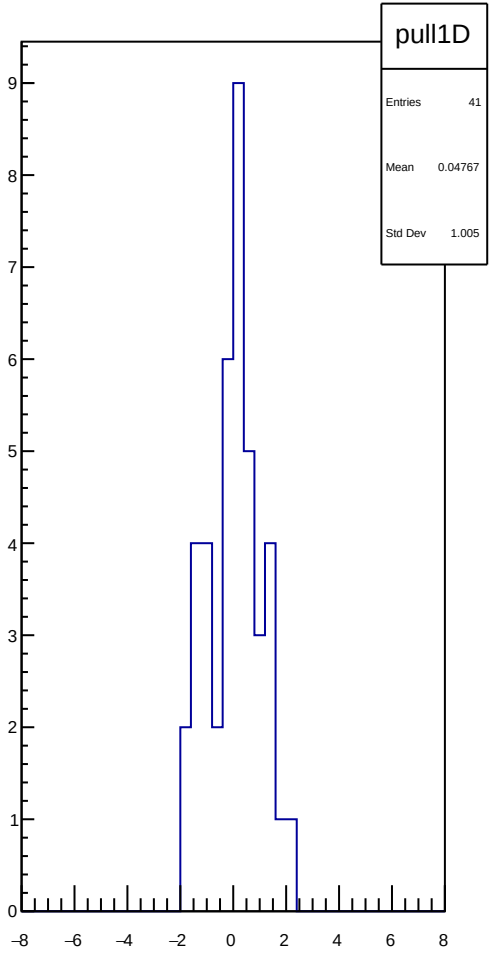

reg_asym_sam3_rms vs run
χ² / ndf 1.094e+04 / 40
p0 107.3 ± 0.1205
170
160
150
140
130
120
110
100
90
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

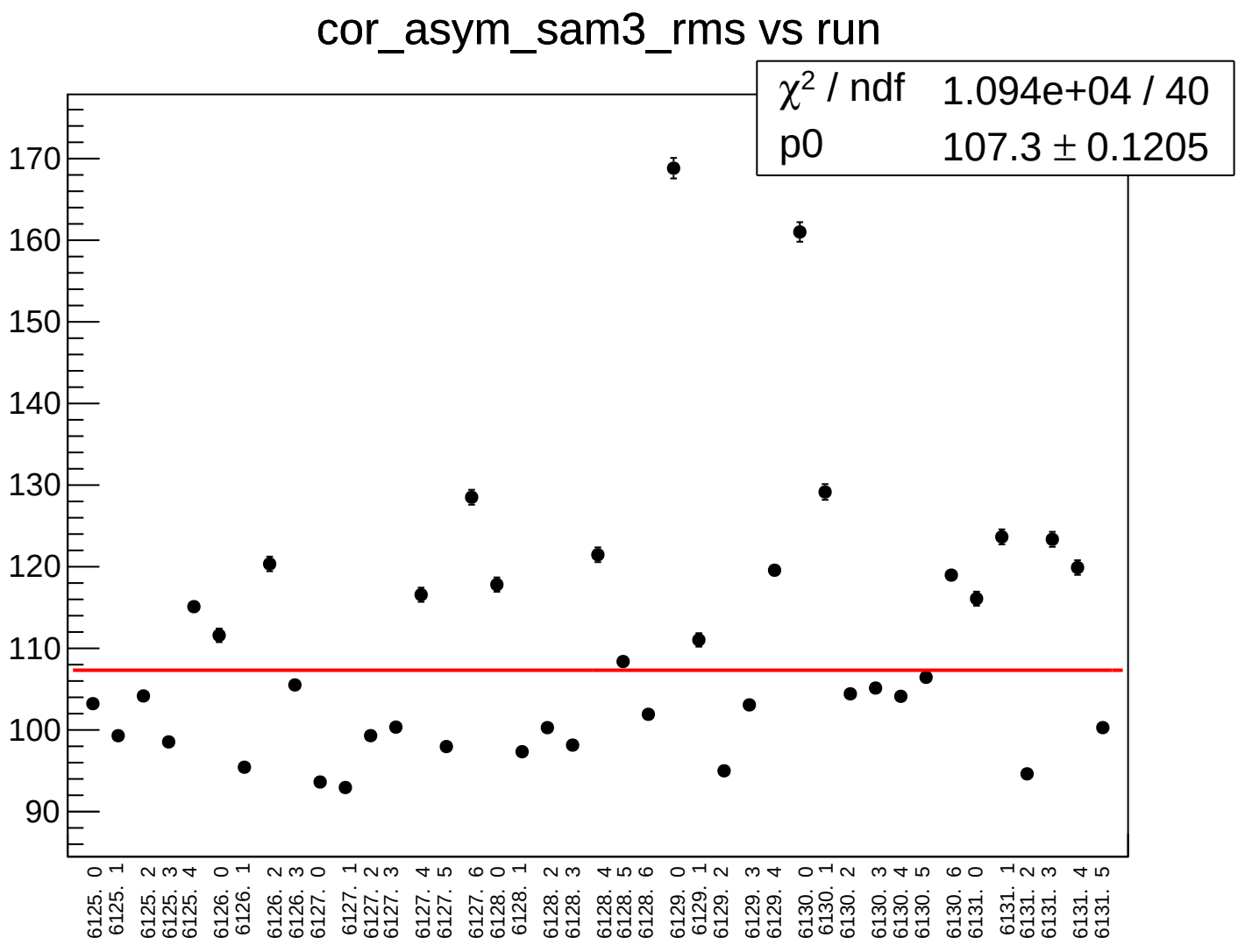

asym_sam3_reg_correction_mean vs run
χ² / ndf 21.04 / 40
p0 −2169 ± 2572
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 805.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

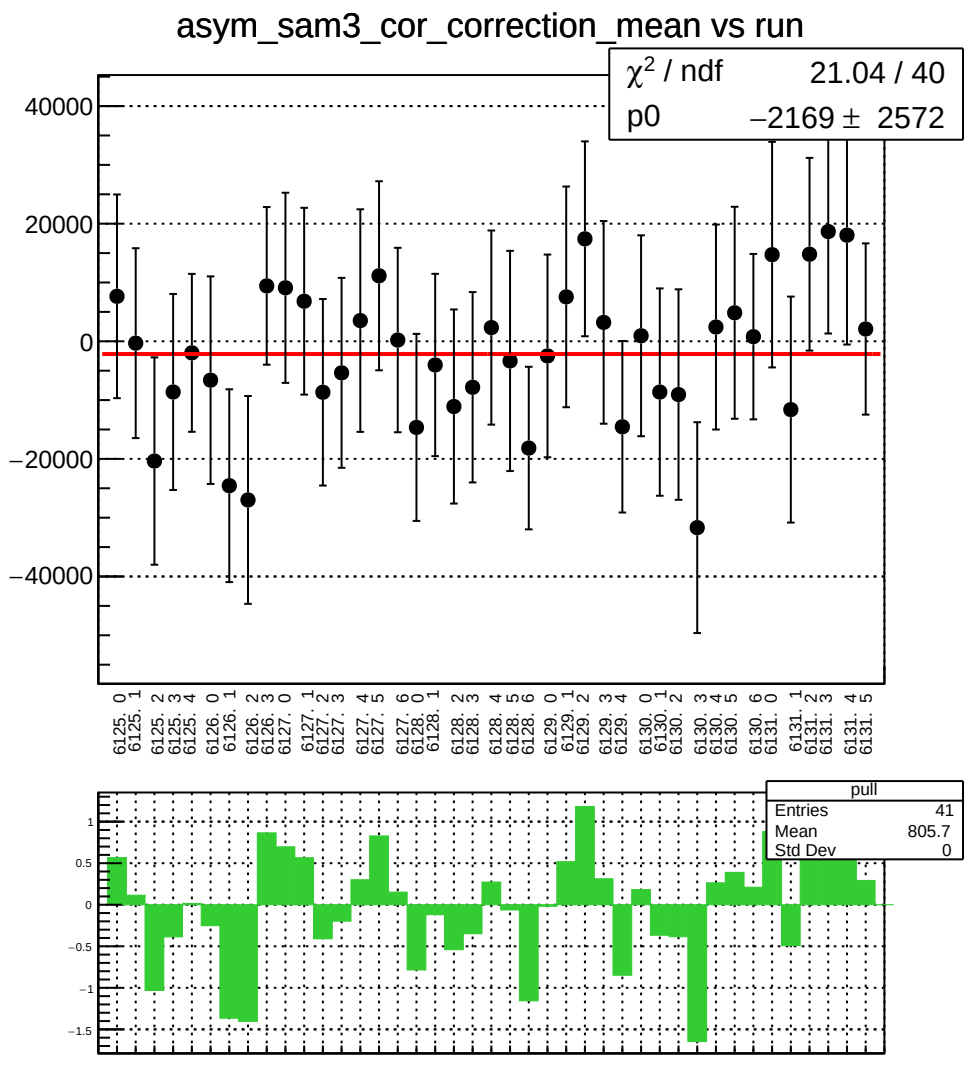

pull1D
Entries 41
Mean 0.002831
Std Dev 0.7164
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

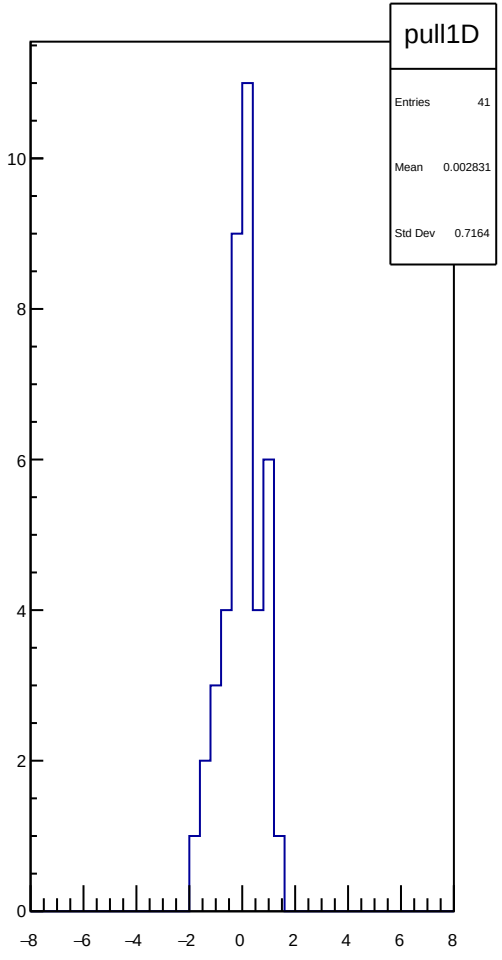

asym_sam3_reg_correction_rms vs run
χ² / ndf 2437 / 40
p0 1628 ± 1.819
1850
1800
1750
1700
1650
1600
1550
1500
1450
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

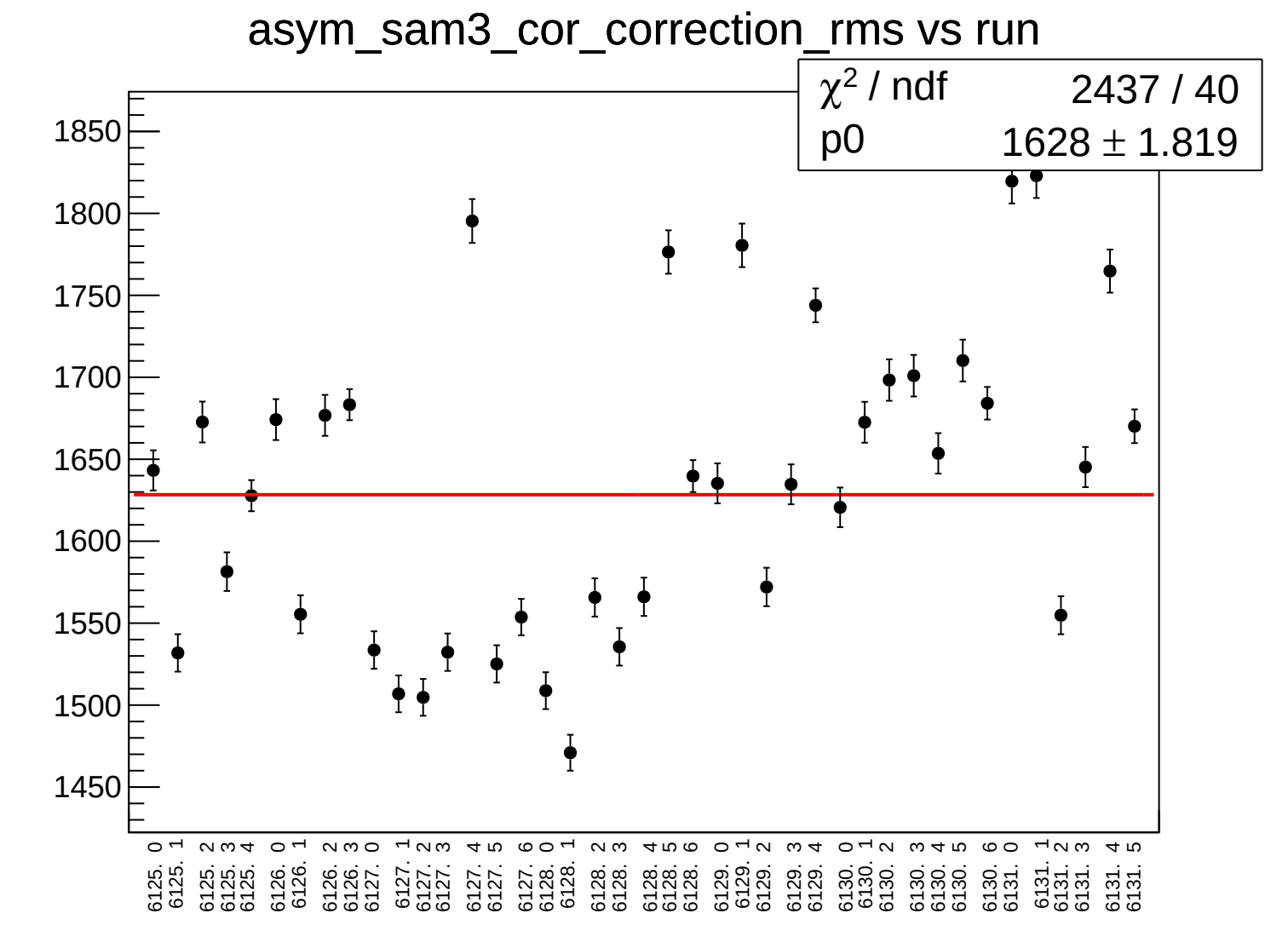

cor_asym_sam3_mean vs run
χ² / ndf 41.47 / 40
p0 99.93 ± 170.4
4000
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 19.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

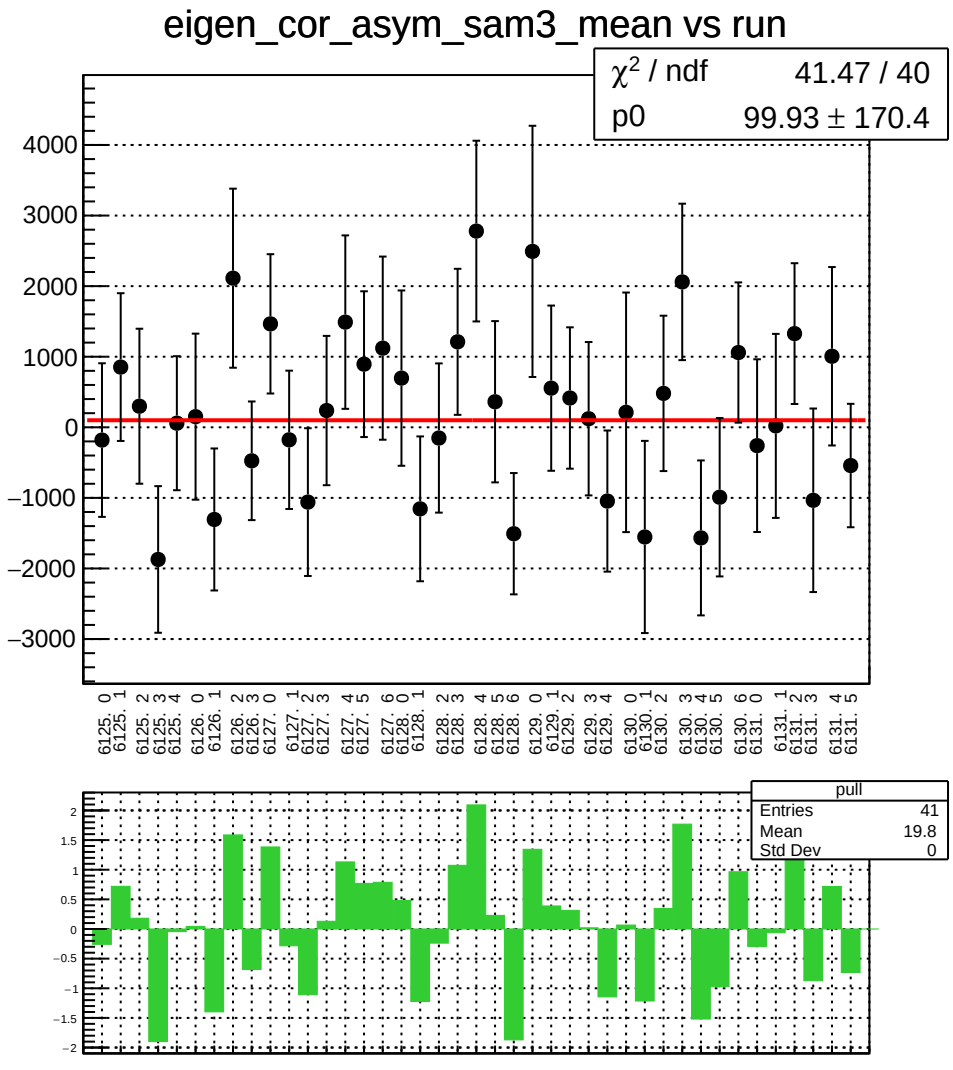

pull1D
Entries 41
Mean 0.04767
Std Dev 1.005
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

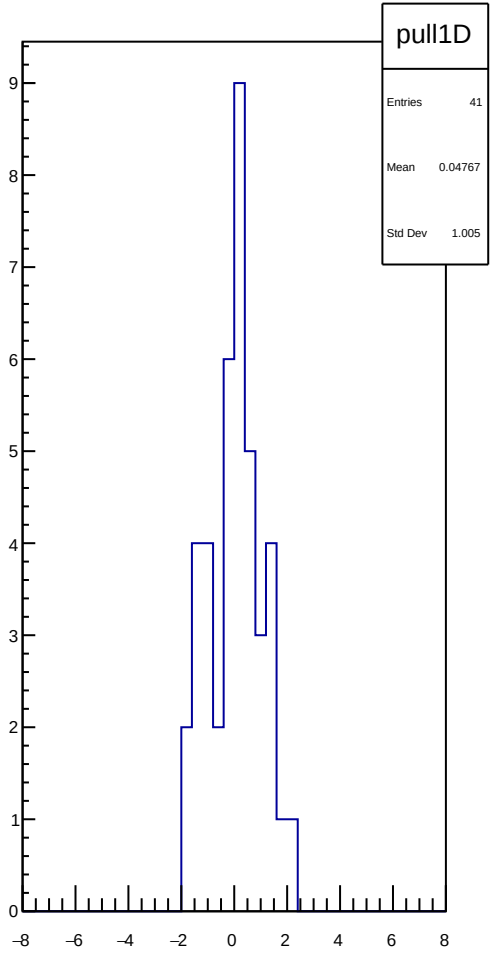

cor_asym_sam3_rms vs run
χ² / ndf 1.094e+04 / 40
p0 107.3 ± 0.1205
170
160
150
140
130
120
110
100
90
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

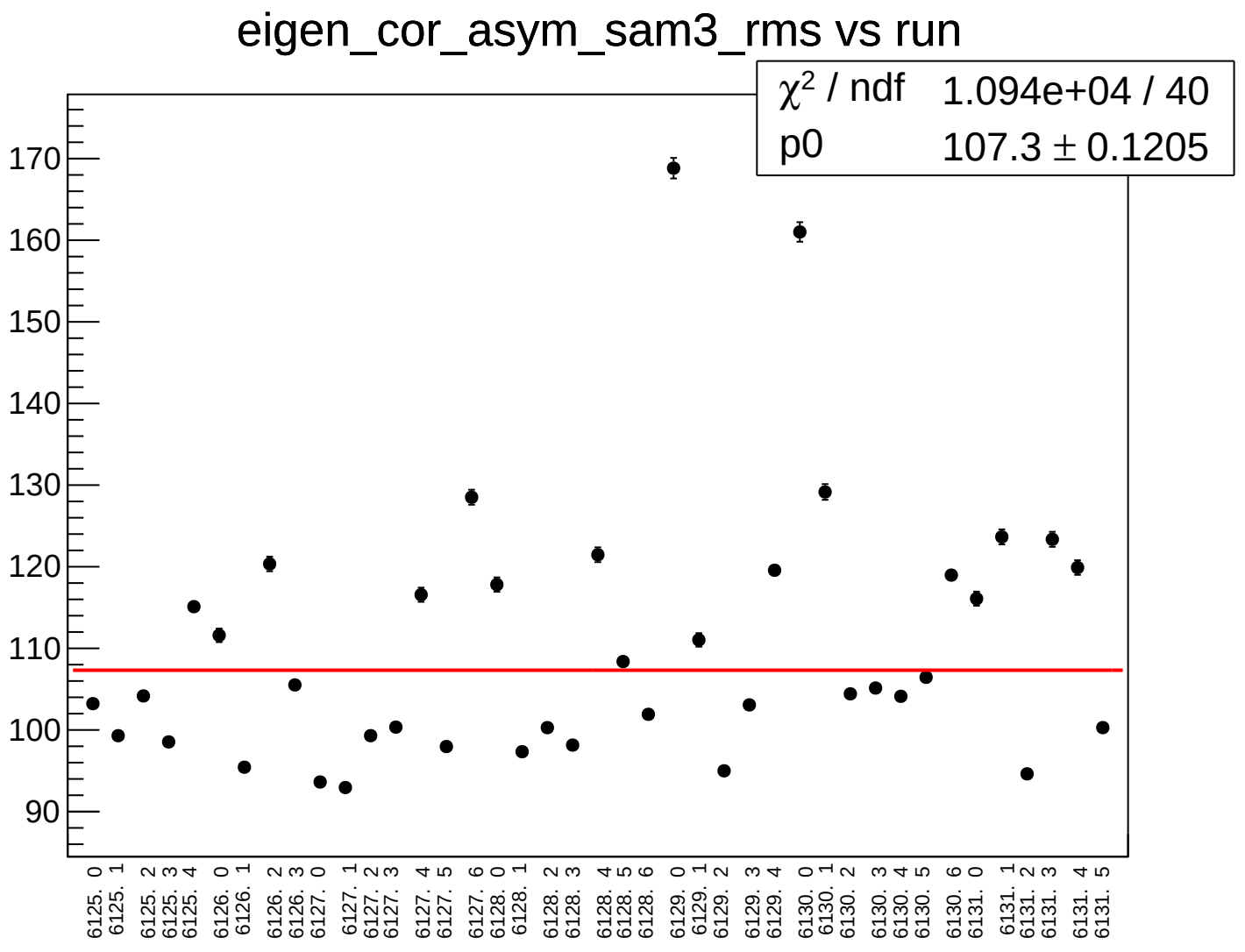

asym_sam3_cor_correction_mean vs run
χ² / ndf 21.04 / 40
p0 −2169 ± 2572
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 805.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

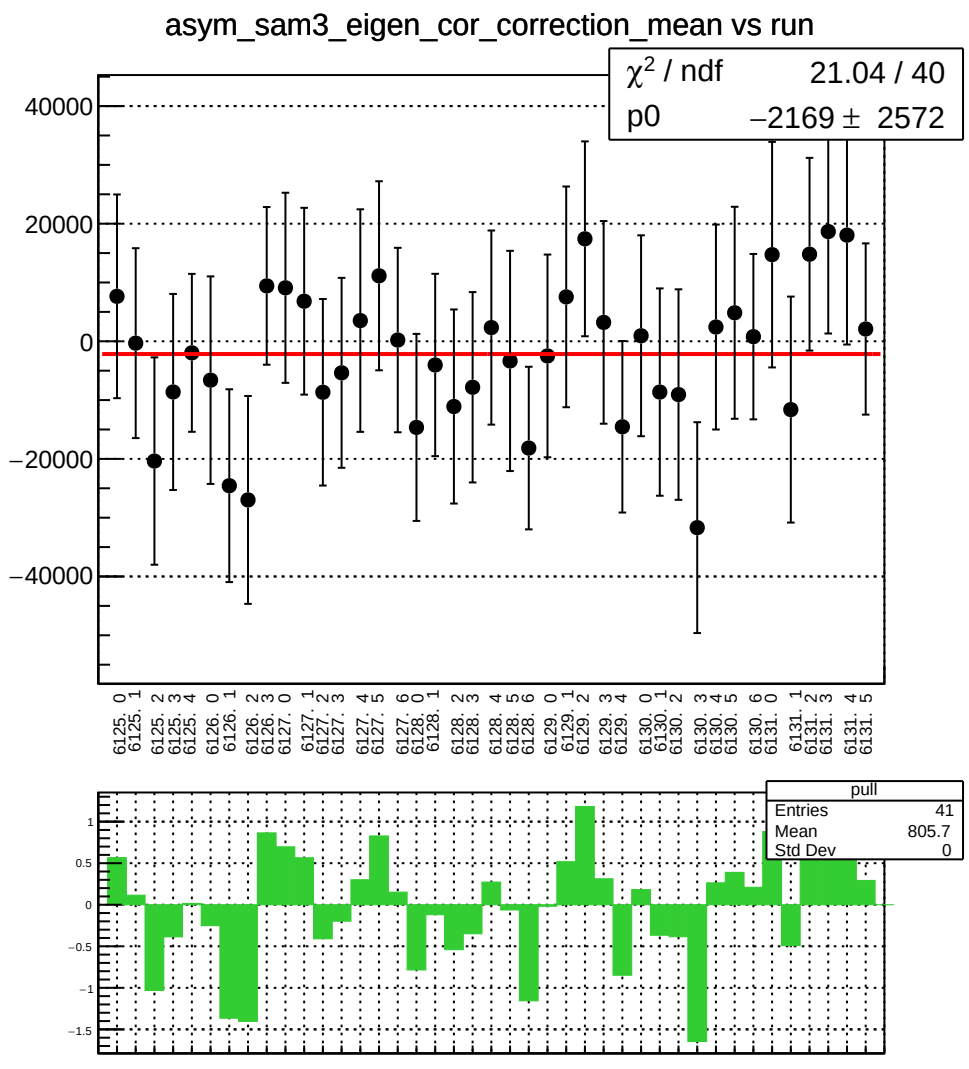

pull1D
Entries 41
Mean 0.002831
Std Dev 0.7164
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

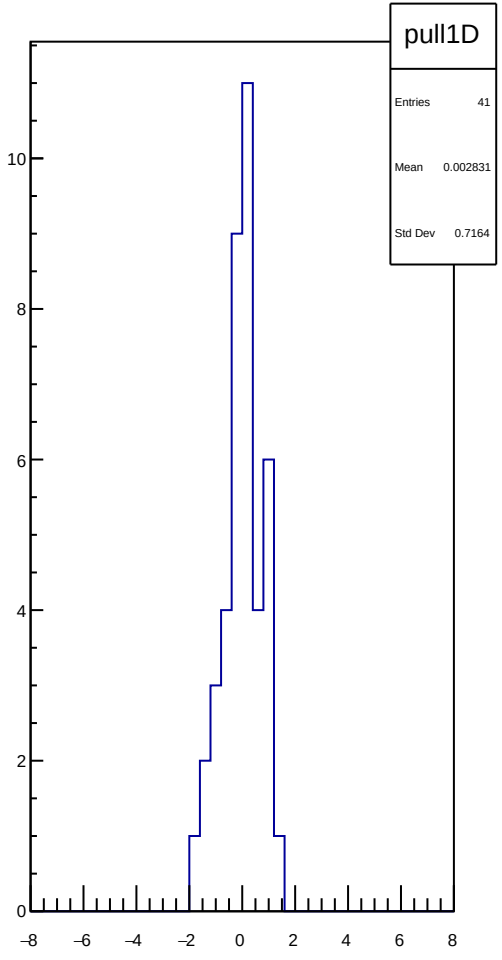

asym_sam3_cor_correction_rms vs run
χ² / ndf 2437 / 40
p0 1628 ± 1.819
1850
1800
1750
1700
1650
1600
1550
1500
1450
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

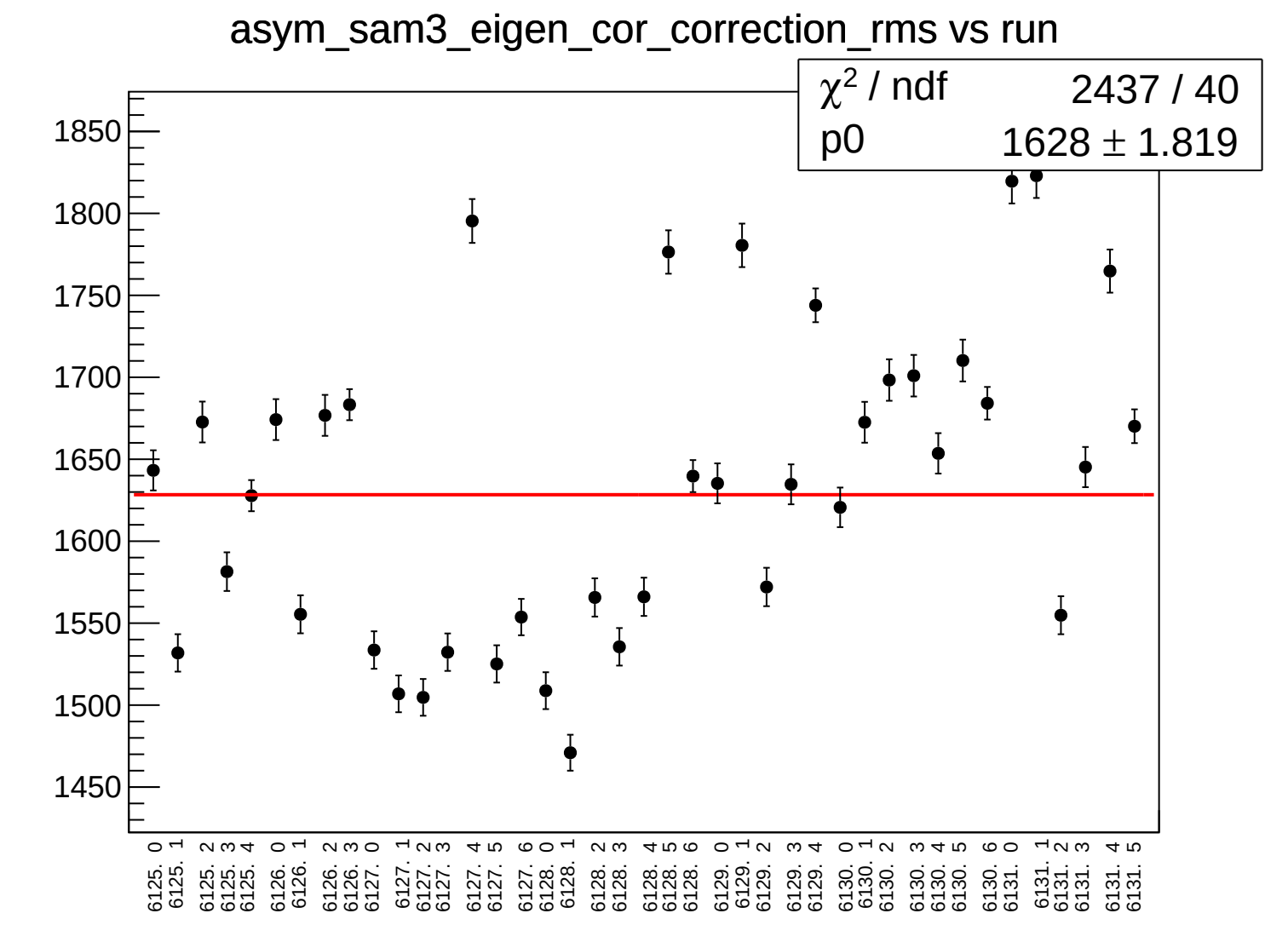

eigen_cor_asym_sam3_mean vs run
χ² / ndf 41.47 / 40
p0 99.93 ± 170.4
4000
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 19.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

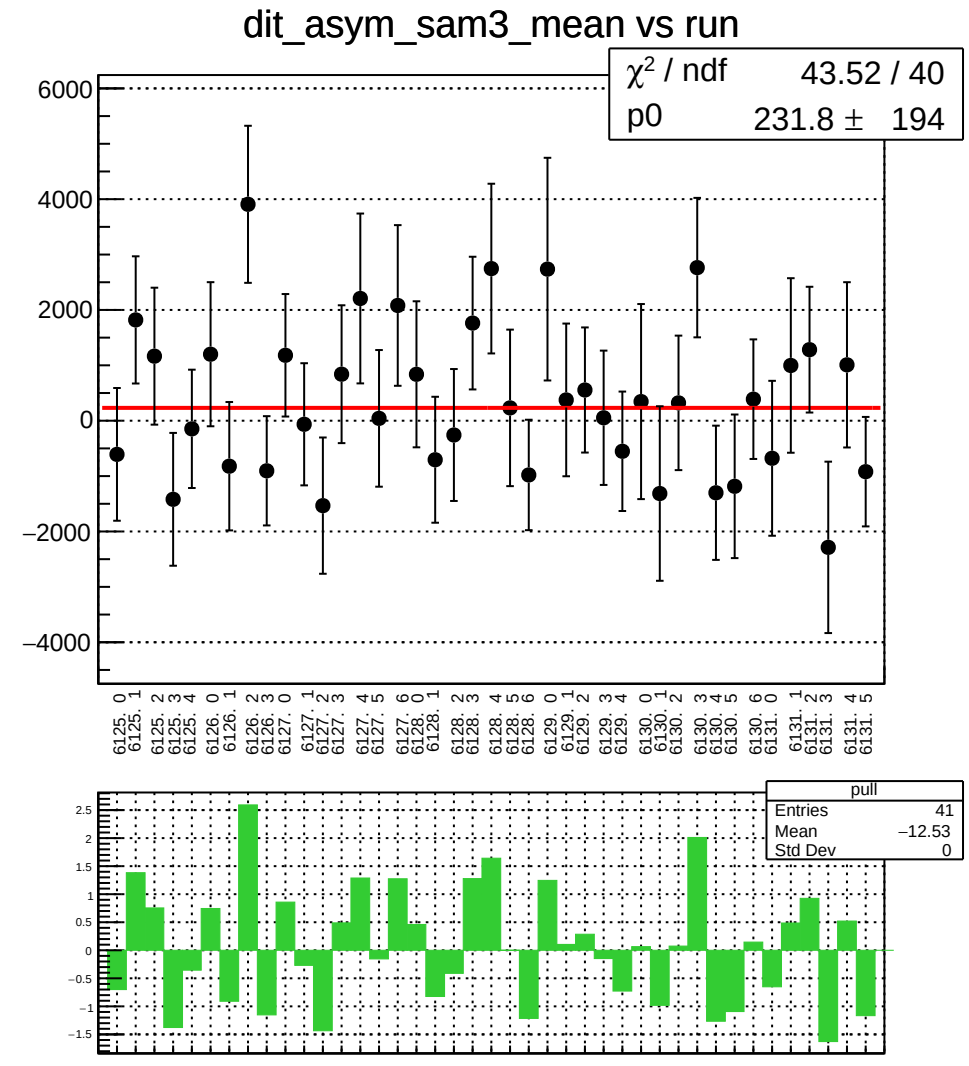

pull1D
Entries 41
Mean 0.04767
Std Dev 1.005
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

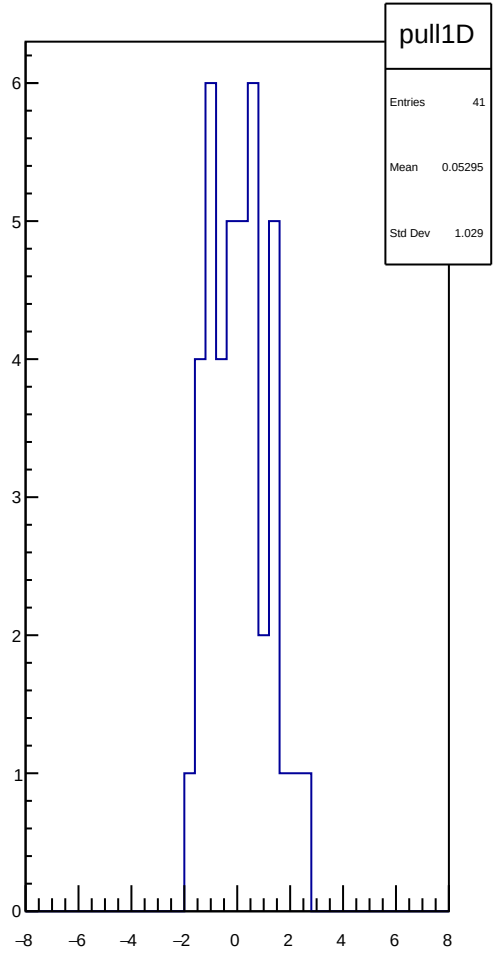

eigen_cor_asym_sam3_rms vs run
χ² / ndf 1.094e+04 / 40
p0 107.3 ± 0.1205
170
160
150
140
130
120
110
100
90
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

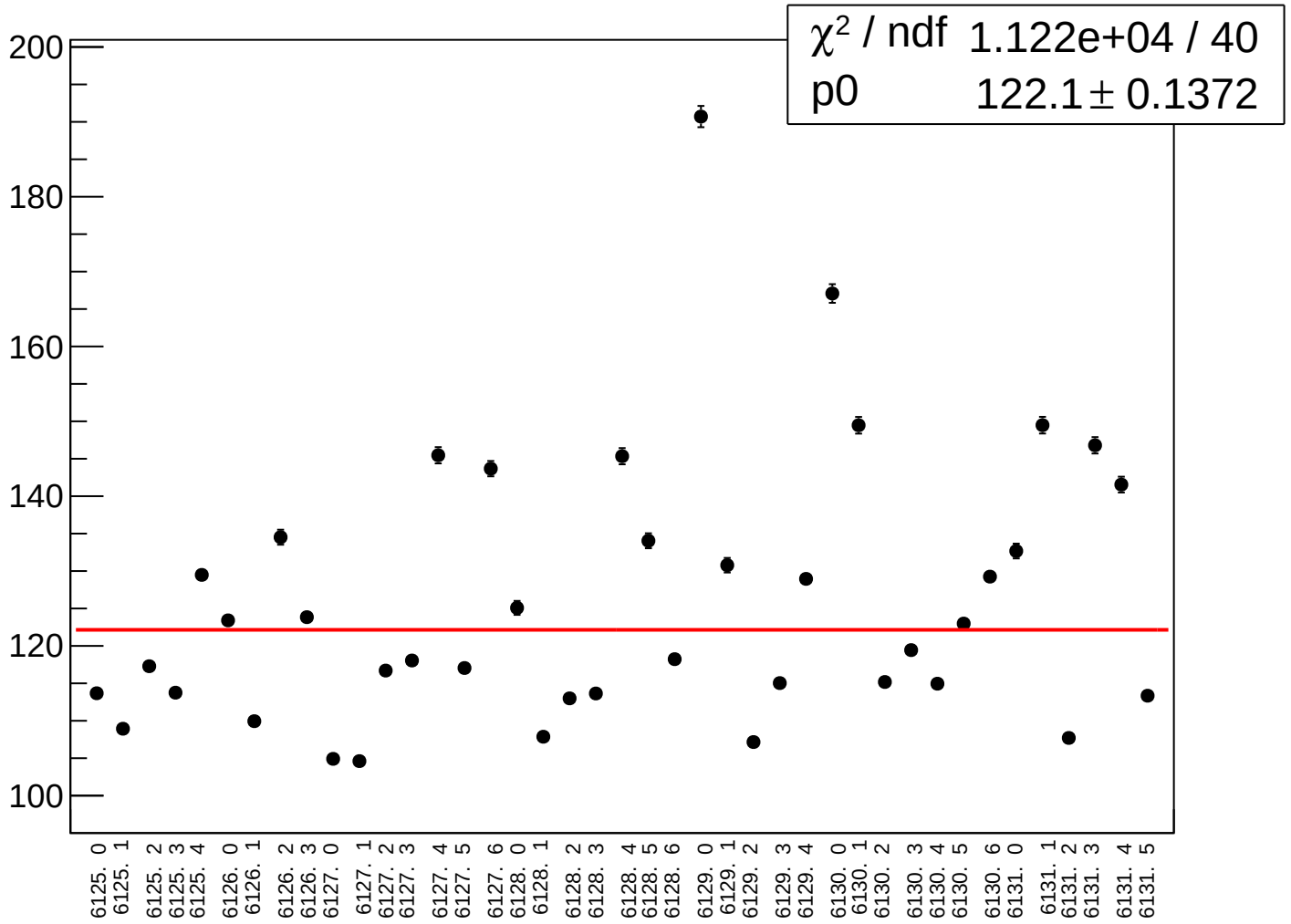

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 21.04 / 40
p0 −2169 ± 2572
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 805.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

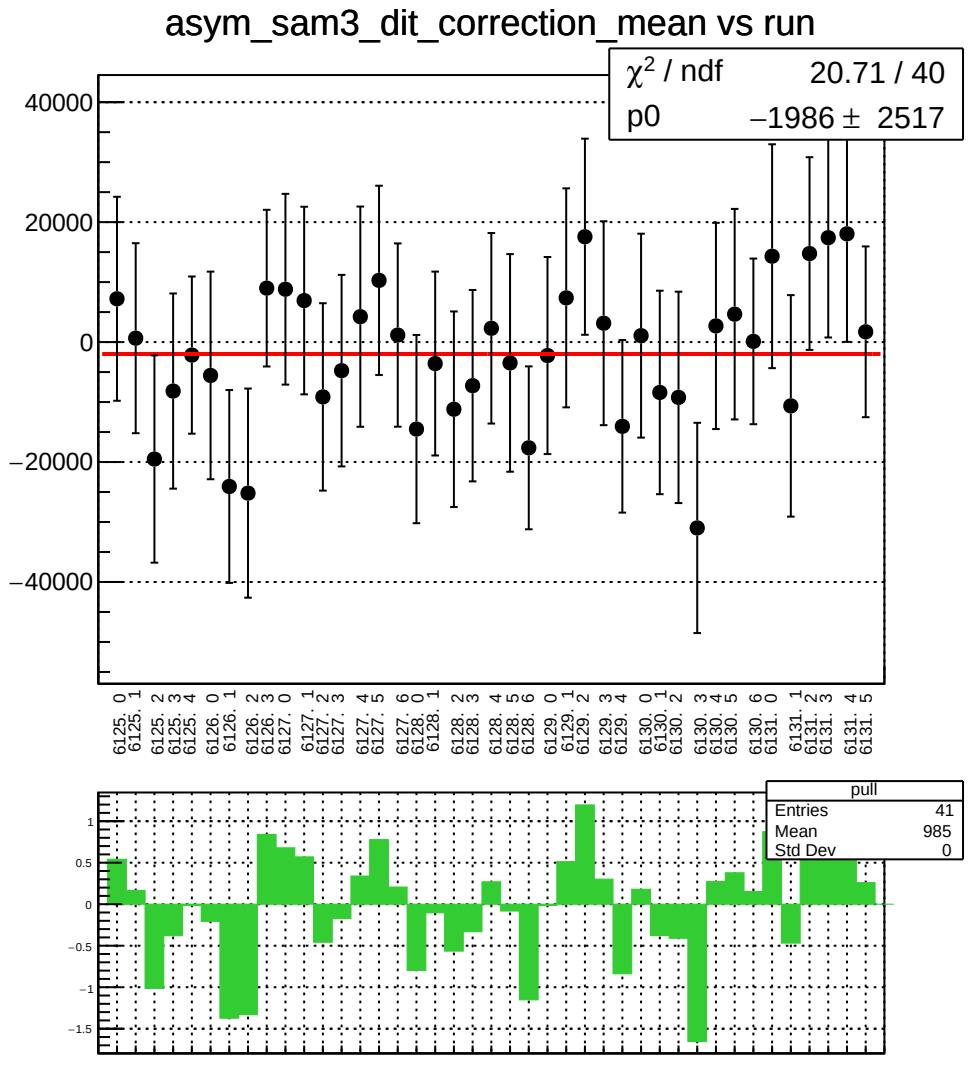

pull1D
Entries 41
Mean 0.002831
Std Dev 0.7164
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

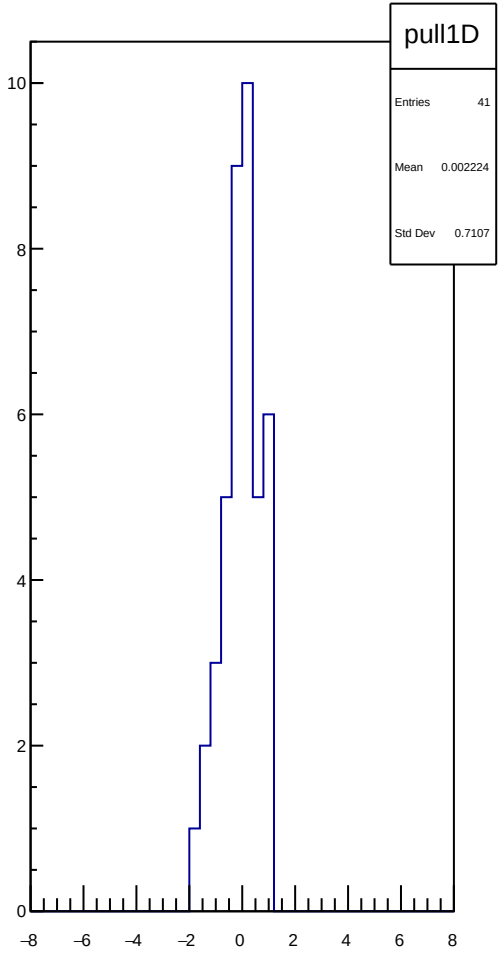

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 2437 / 40
p0 1628 ± 1.819
1850
1800
1750
1700
1650
1600
1550
1500
1450
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

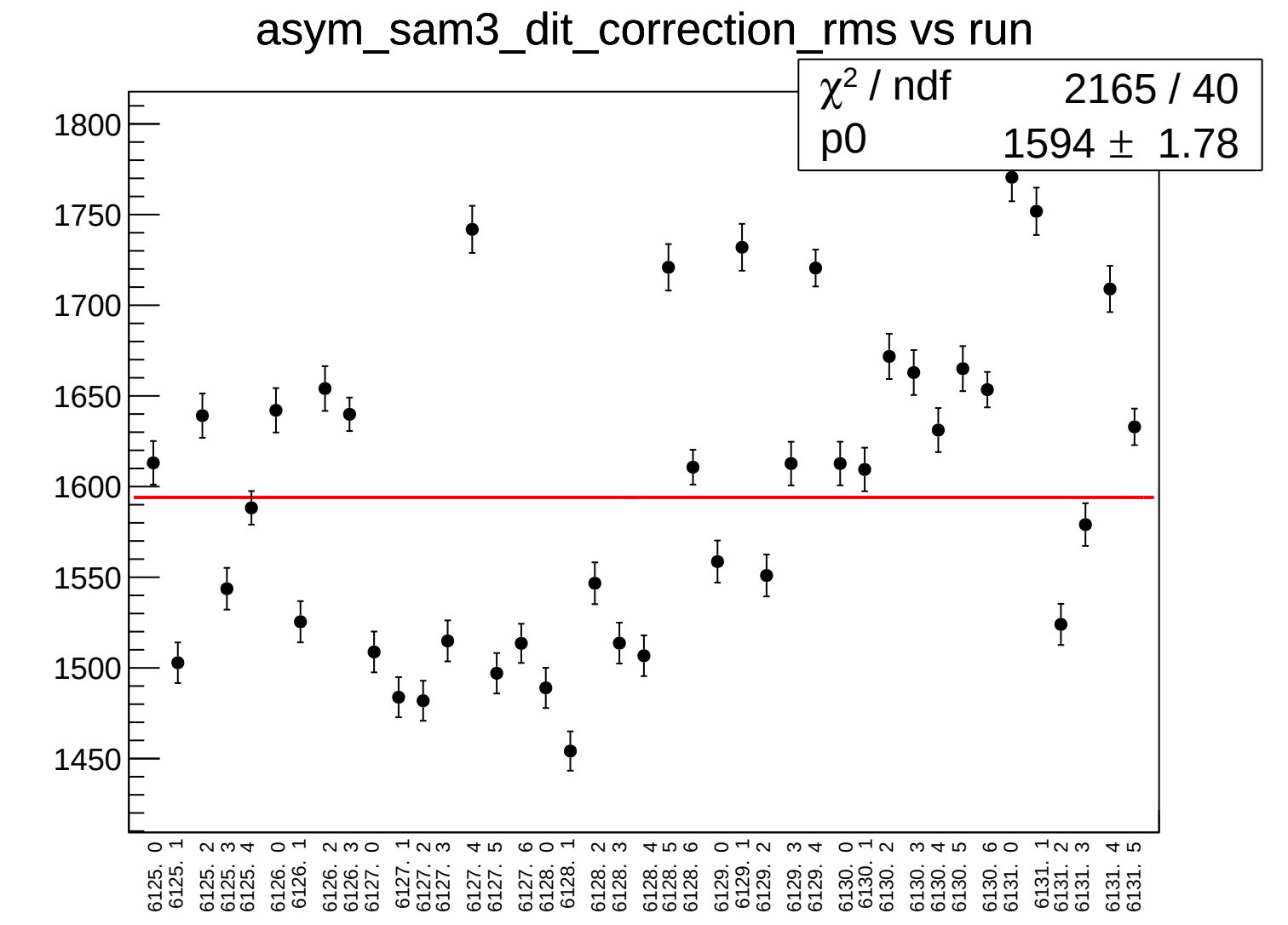

dit_asym_sam3_mean vs run
χ² / ndf 43.52 / 40
p0 231.8 ± 194
6000
4000
2000
0
−2000
−4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −12.53
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

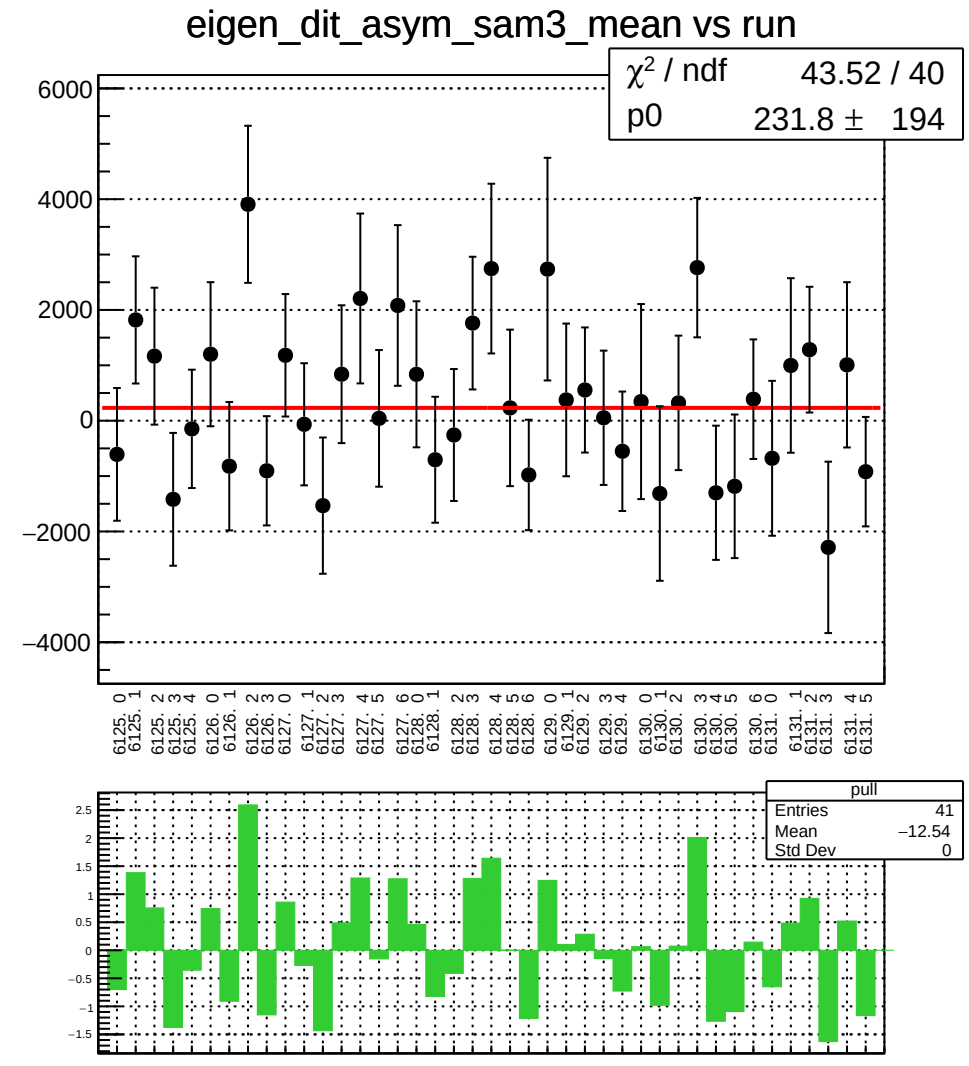

pull1D
Entries 41
Mean 0.05295
Std Dev 1.029
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

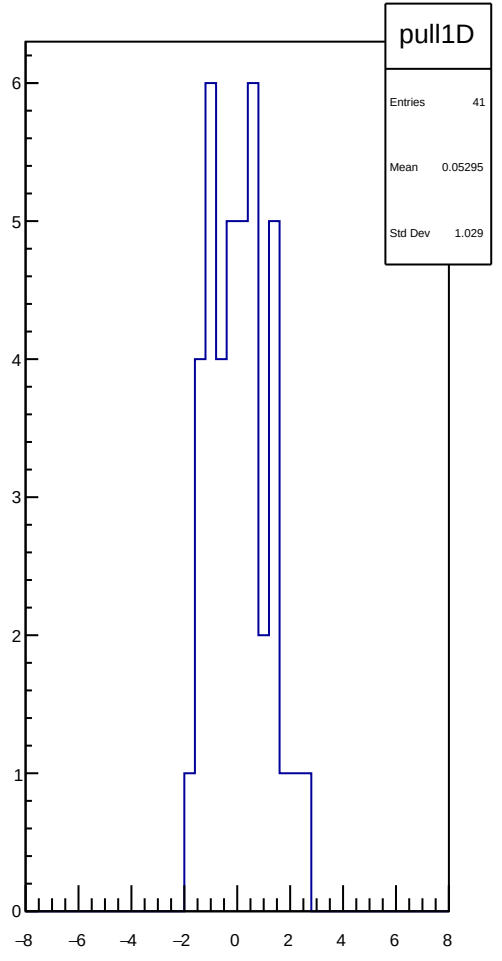

dit_asym_sam3_rms vs run
χ² / ndf 1.122e+04 / 40
p0 122.1 ± 0.1372
200
180
160
140
120
100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

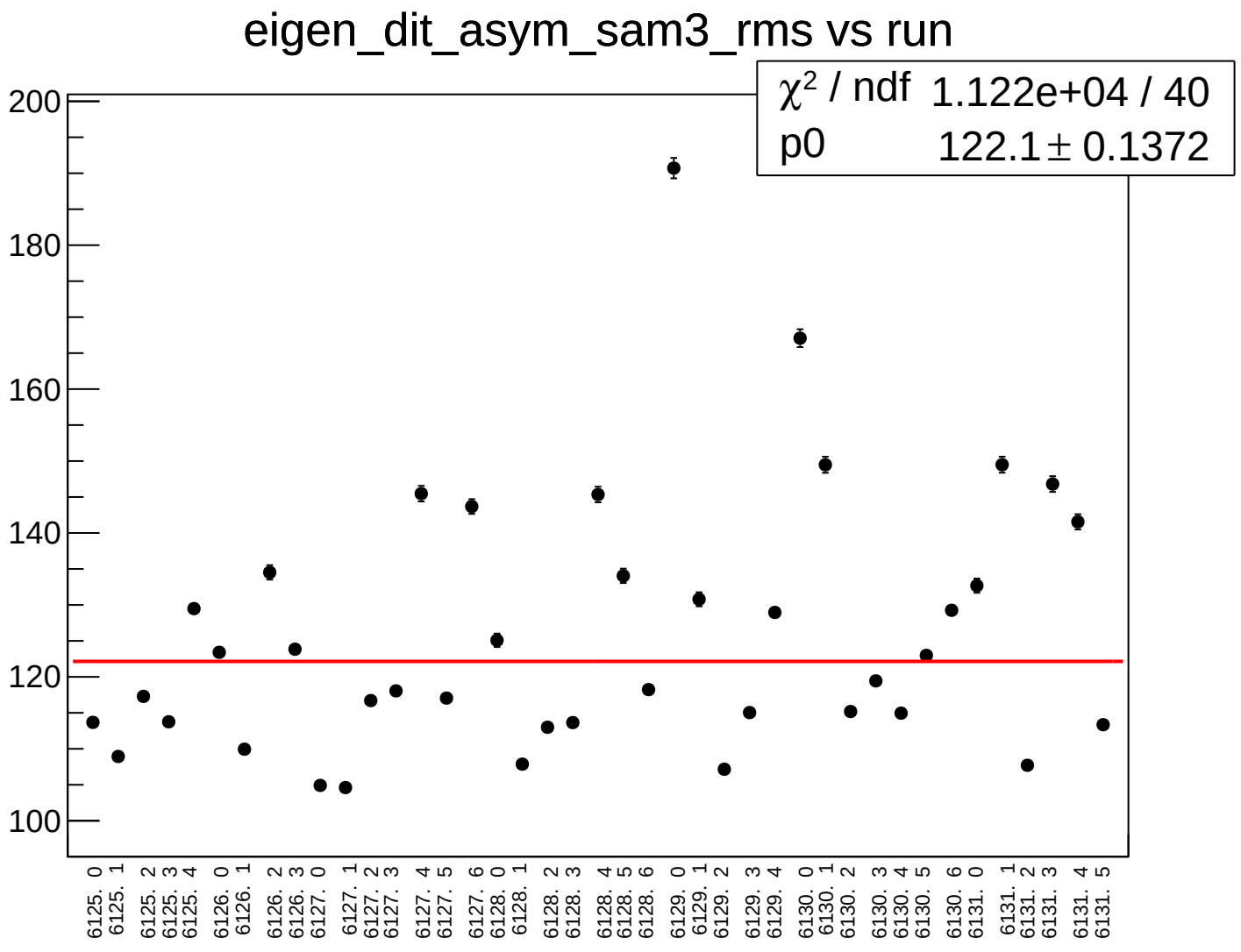

asym_sam3_dit_correction_mean vs run
χ² / ndf 20.71 / 40
p0 −1986 ± 2517
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 985
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

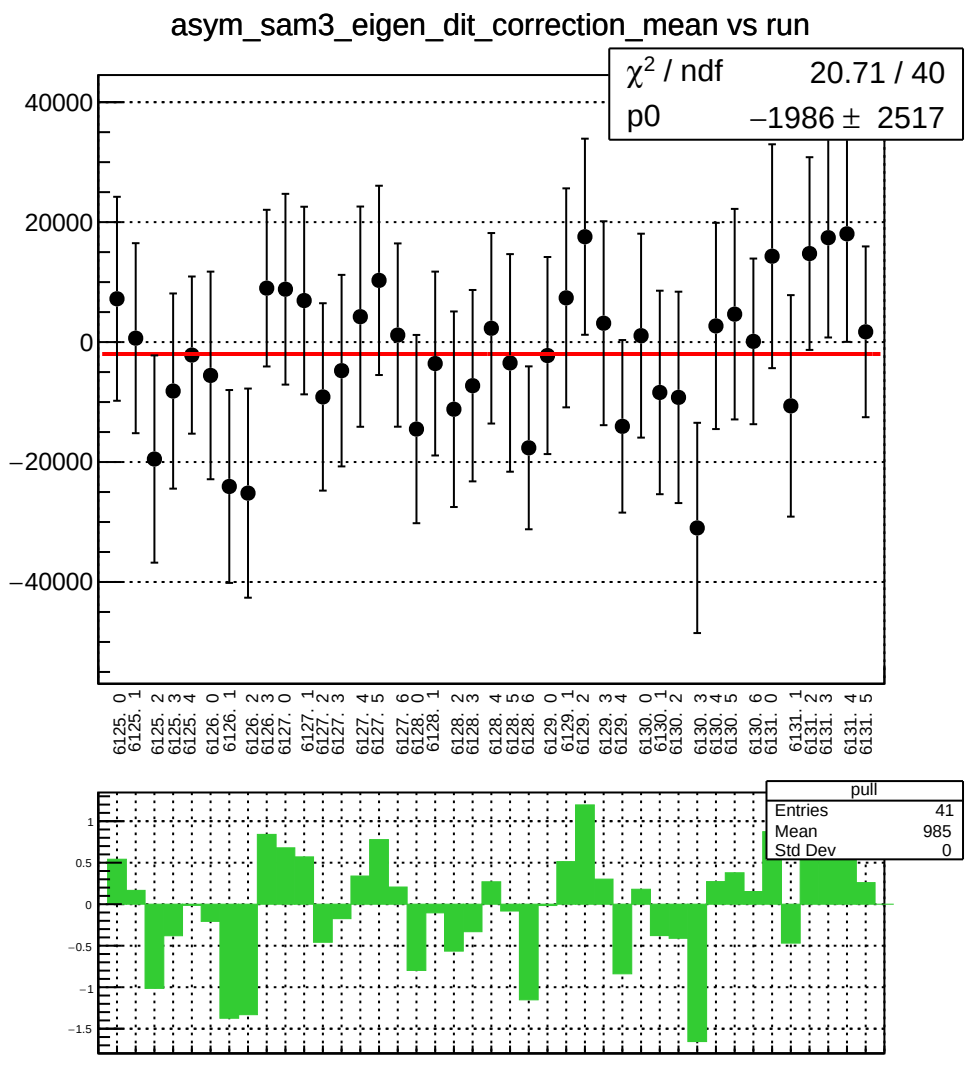

pull1D
Entries 41
Mean 0.002224
Std Dev 0.7107
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

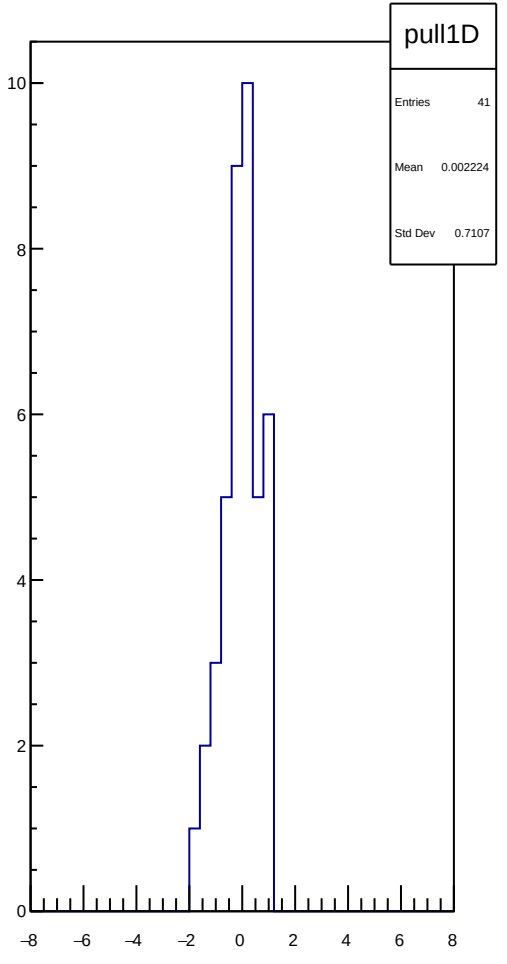

asym_sam3_dit_correction_rms vs run
χ² / ndf 2165 / 40
p0 1594 ± 1.78
1800
1750
1700
1650
1600
1550
1500
1450
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

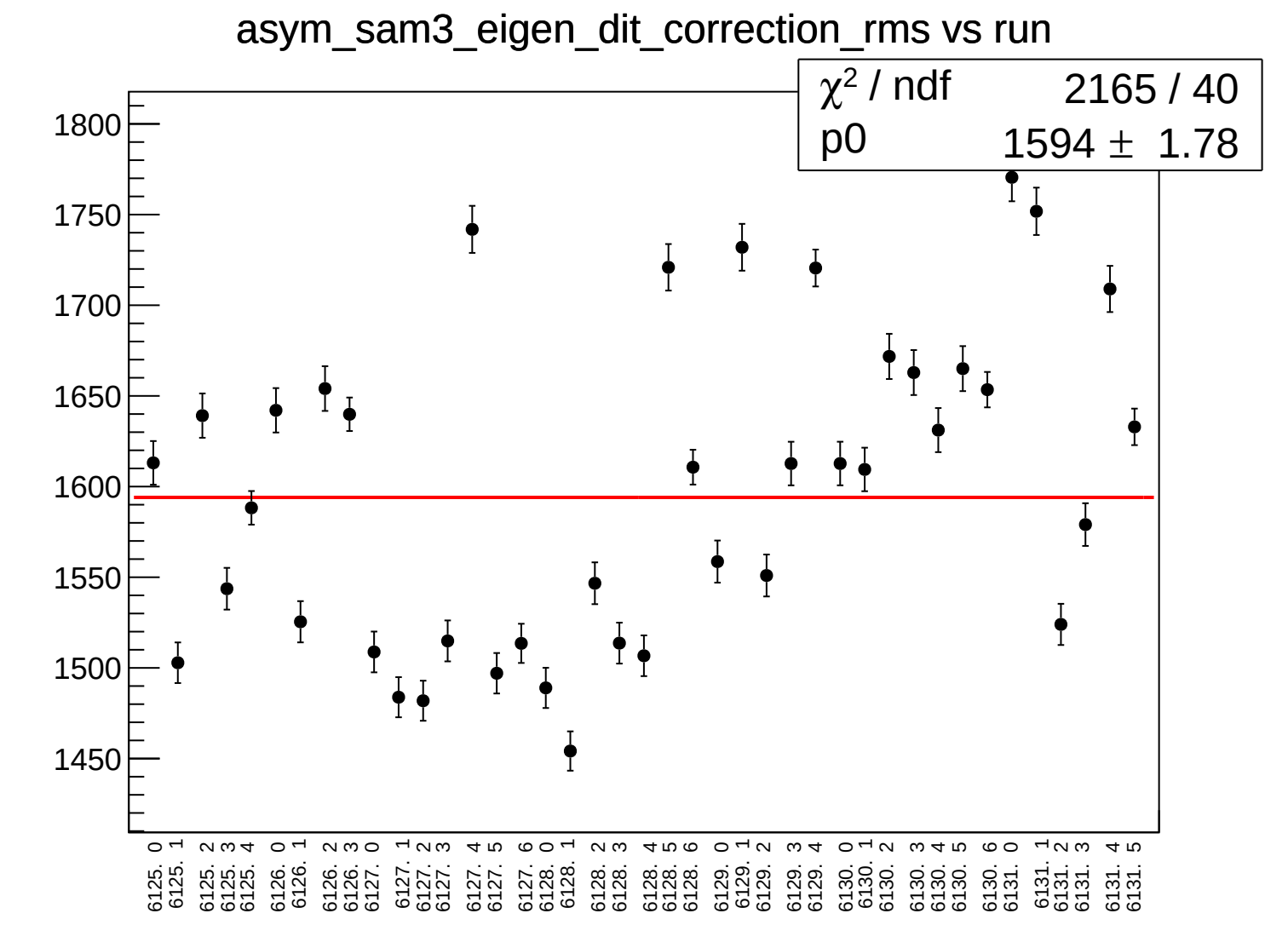

eigen_dit_asym_sam3_mean vs run
χ² / ndf 43.52 / 40
p0 231.8 ± 194
6000
4000
2000
0
−2000
−4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −12.54
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.05295
Std Dev 1.029
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam3_rms vs run
χ² / ndf 1.122e+04 / 40
p0 122.1 ± 0.1372
200
180
160
140
120
100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 20.71 / 40
p0 −1986 ± 2517
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 985
Std Dev 0
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.002224
Std Dev 0.7107
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 2165 / 40
p0 1594 ± 1.78
1800
1750
1700
1650
1600
1550
1500
1450
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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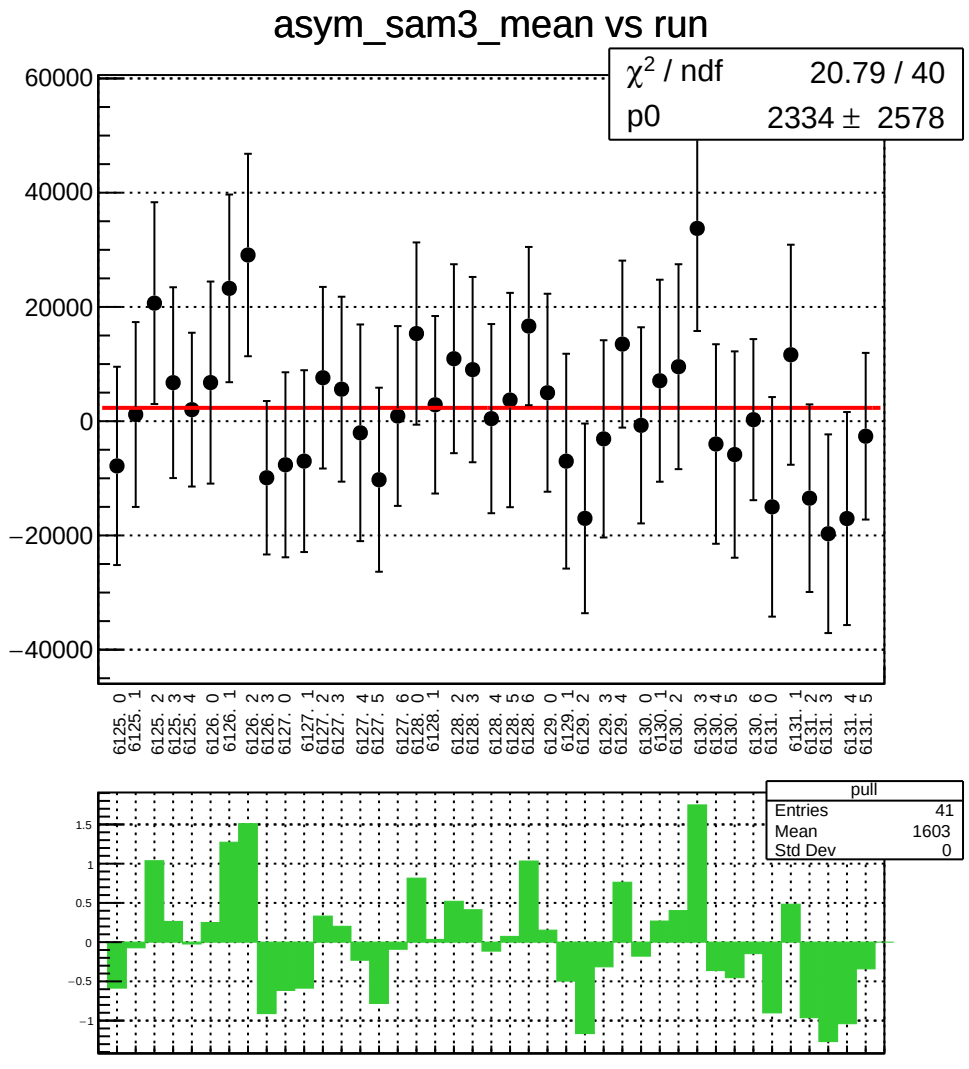
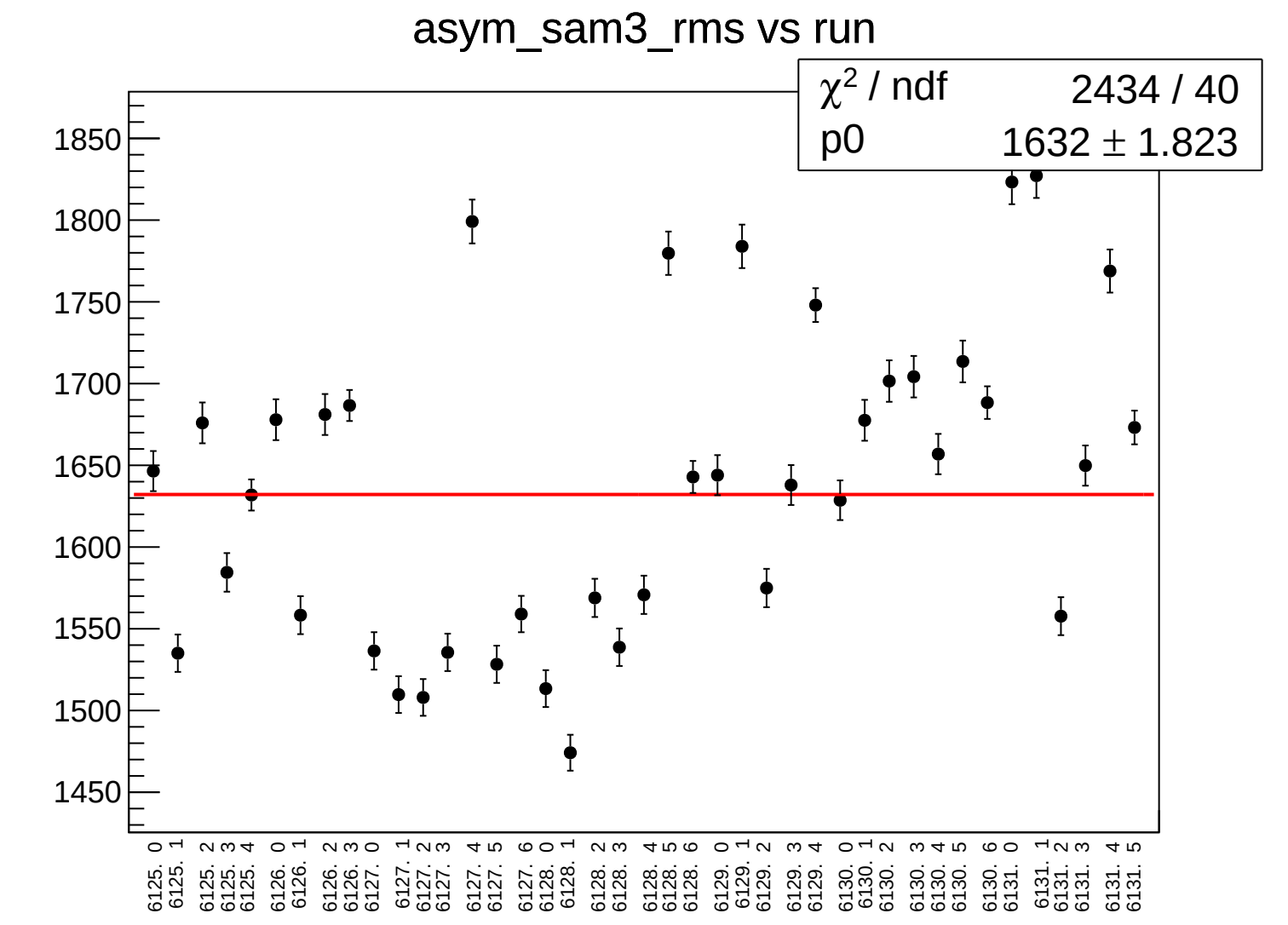
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam3_mean vs run
χ² / ndf 20.79 / 40
p0 2334 ± 2578
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1603
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.001408
Std Dev 0.7121
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam3_rms vs run
χ² / ndf 2434 / 40
p0 1632 ± 1.823
1850
1800
1750
1700
1650
1600
1550
1500
1450
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
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6127. 6
6128. 0
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6128. 2
6128. 3
6128. 4
6128. 5
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6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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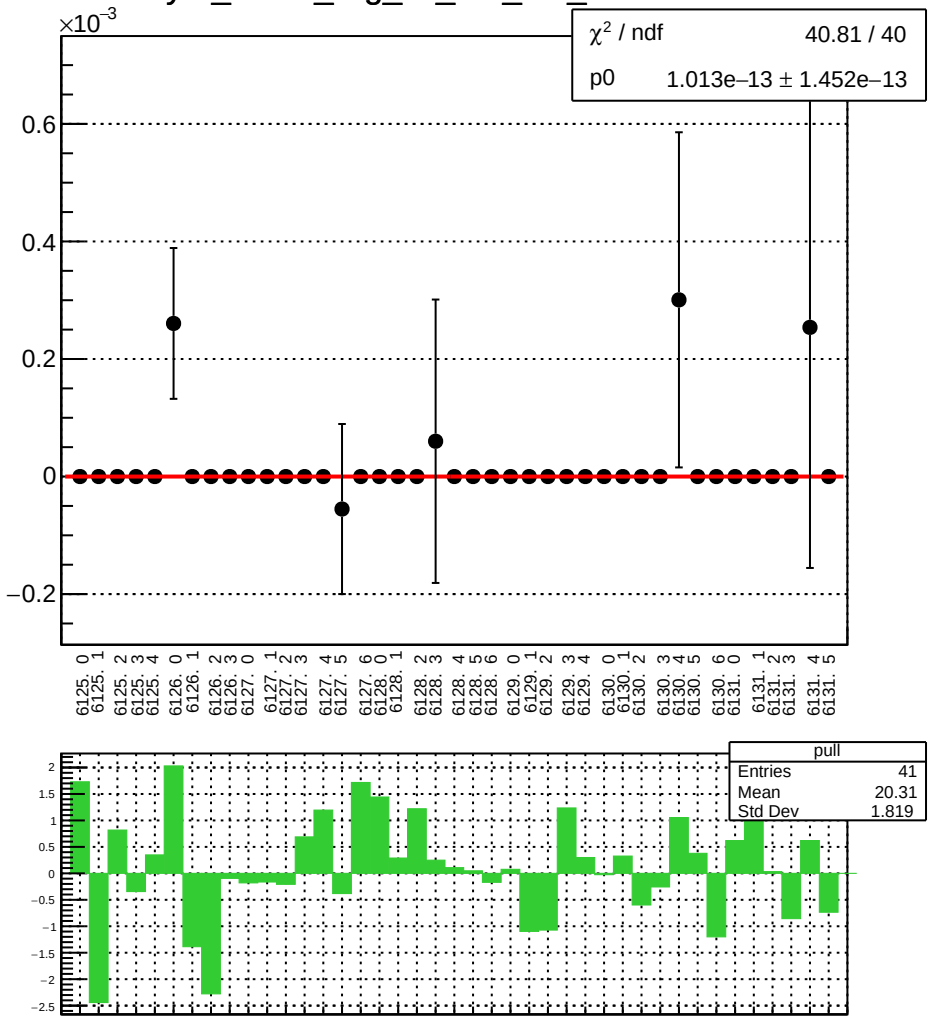
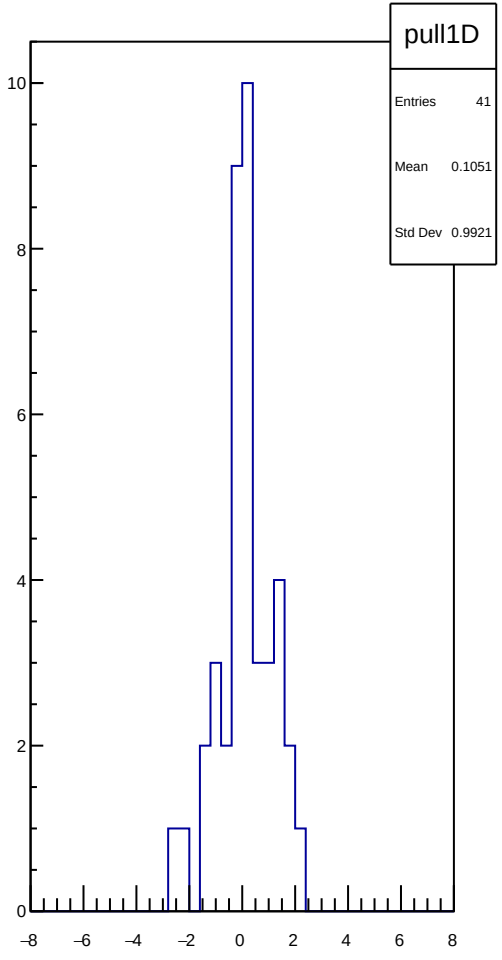
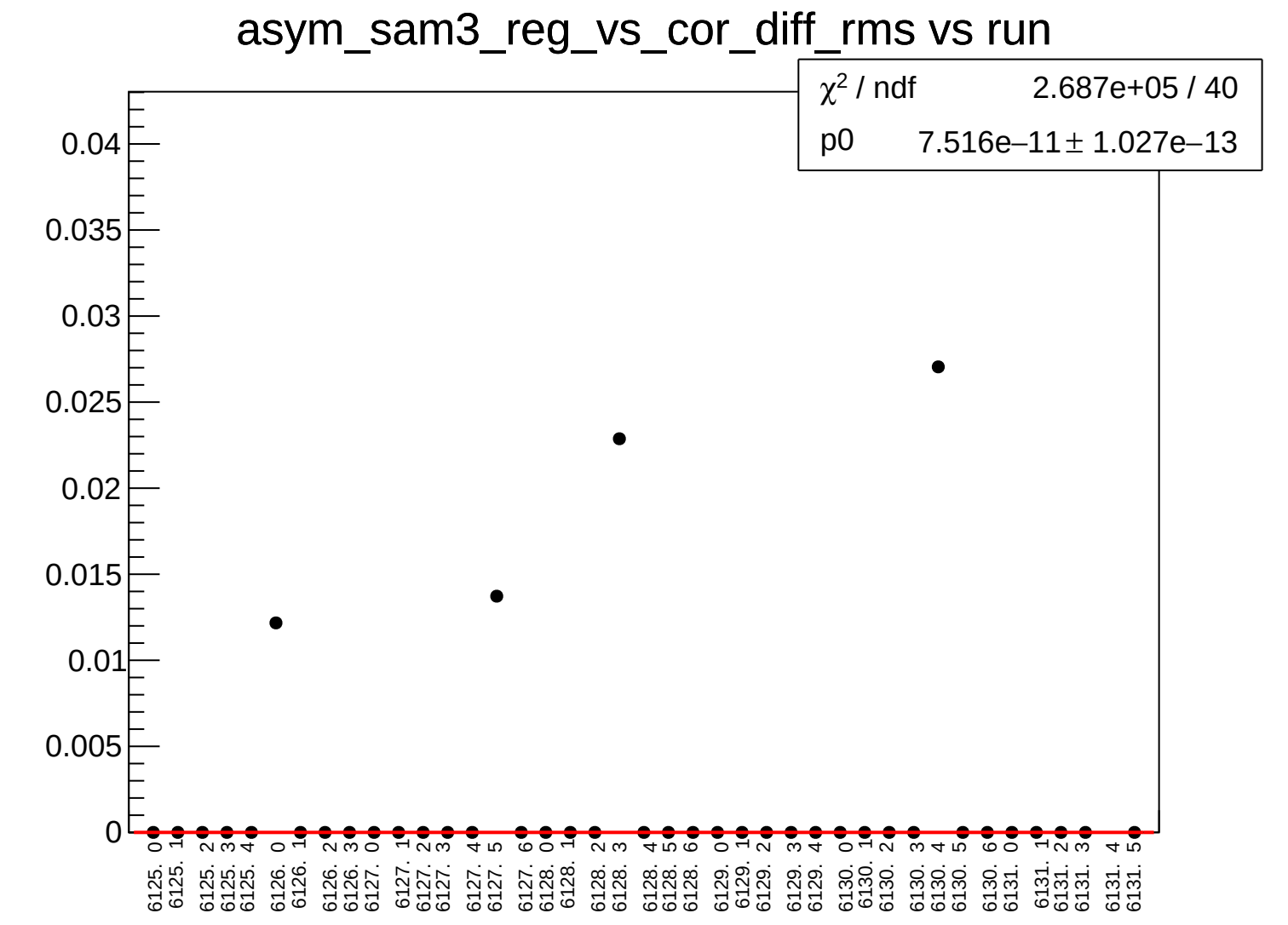
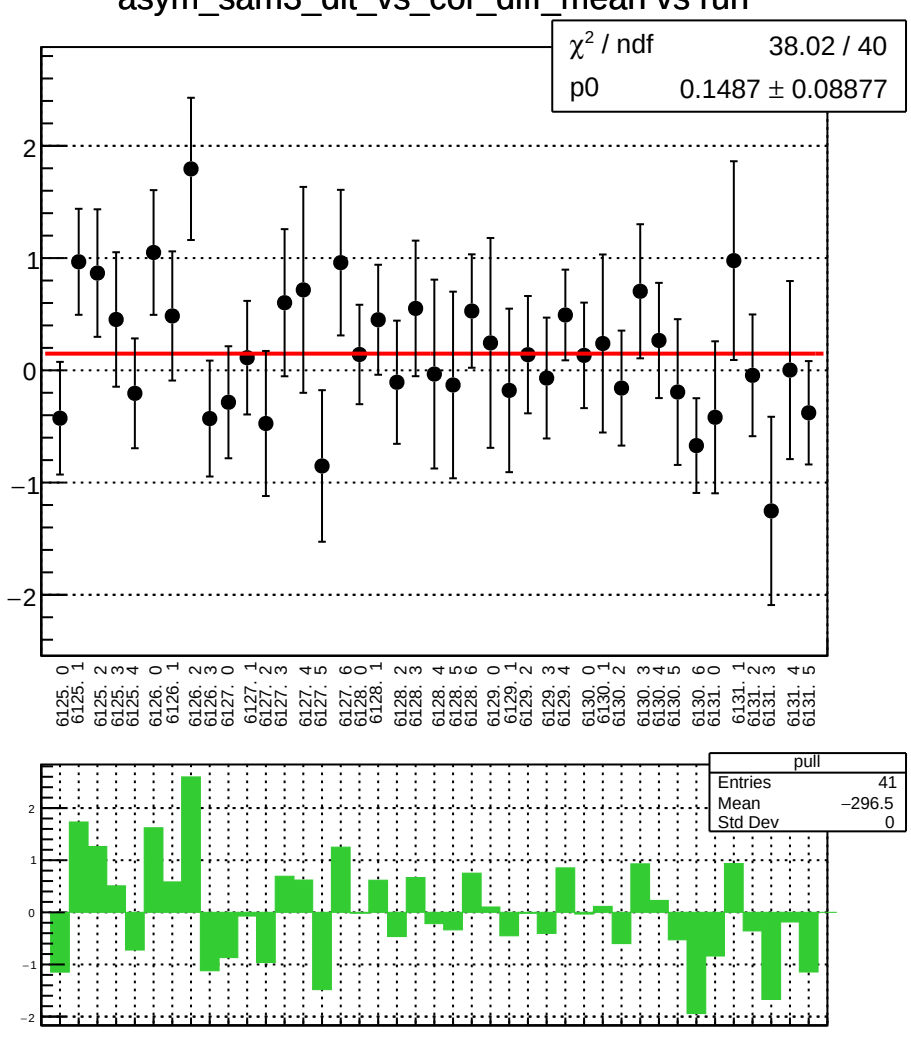
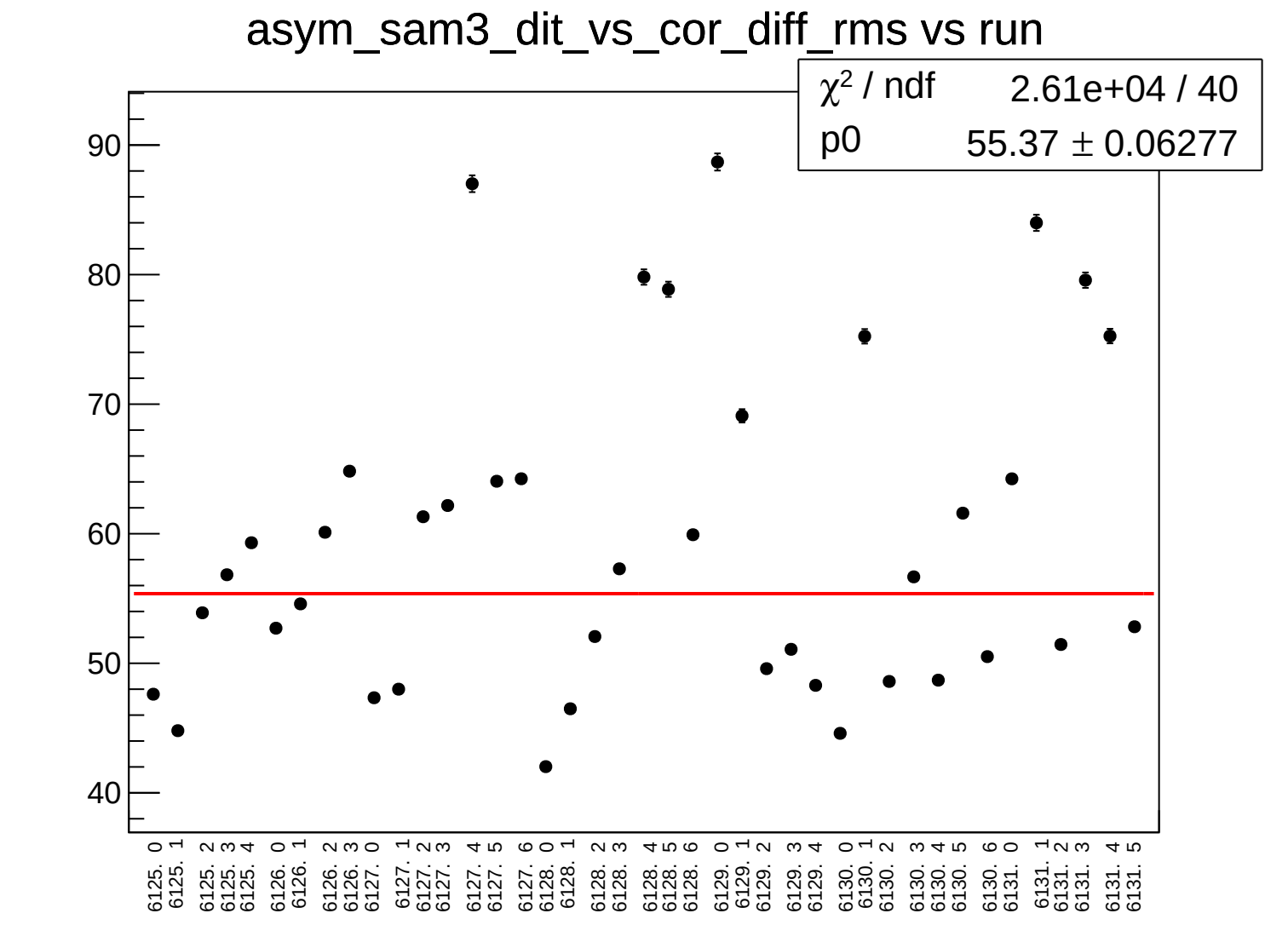
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

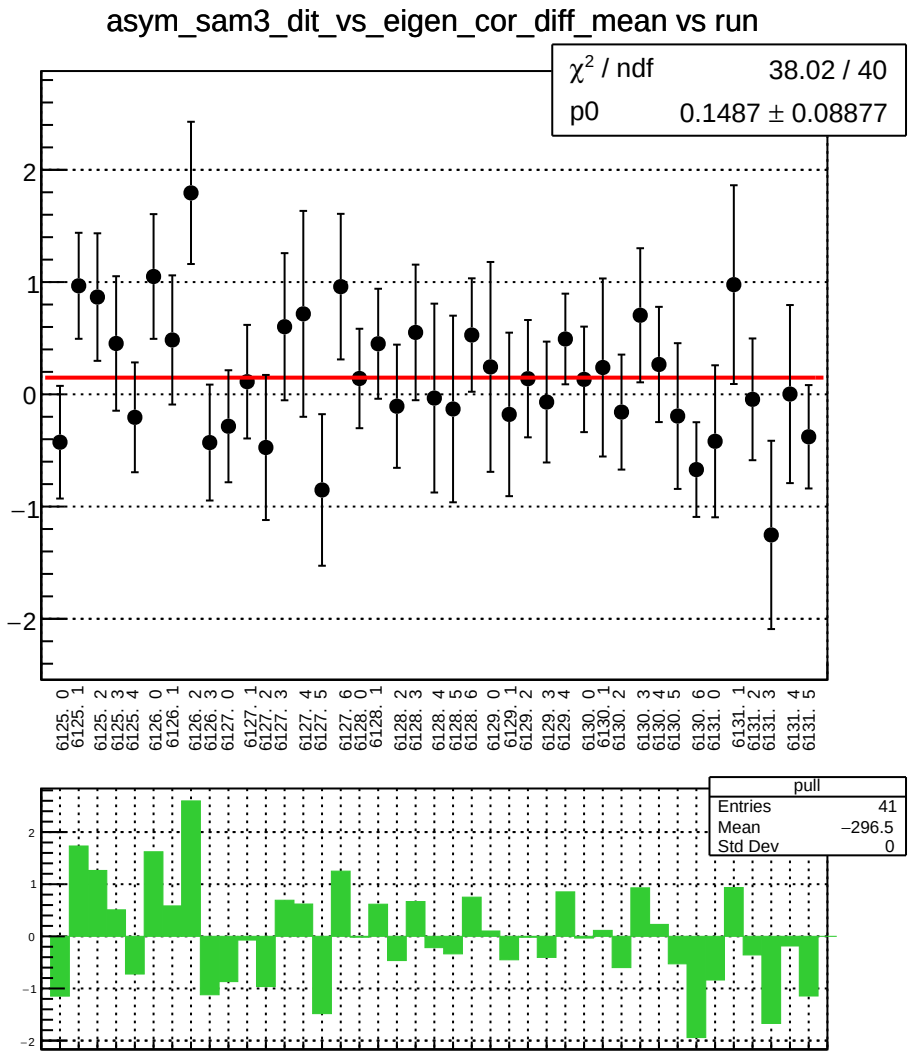

asym_sam3_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 40.81 / 40
p0 1.013e−13 ± 1.452e−13
0.6
0.4
0.2
0
−0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 20.31
Std Dev 1.819
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

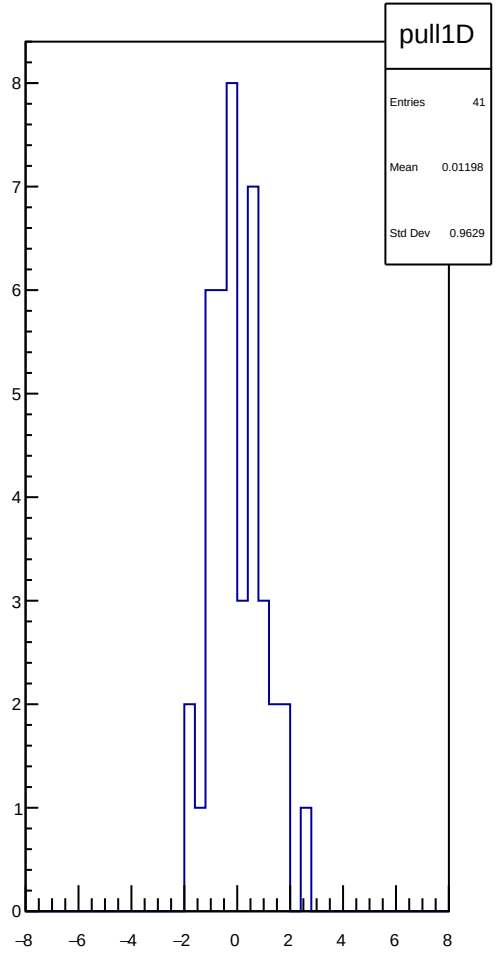

pull1D
Entries 41
Mean 0.1051
Std Dev 0.9921
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

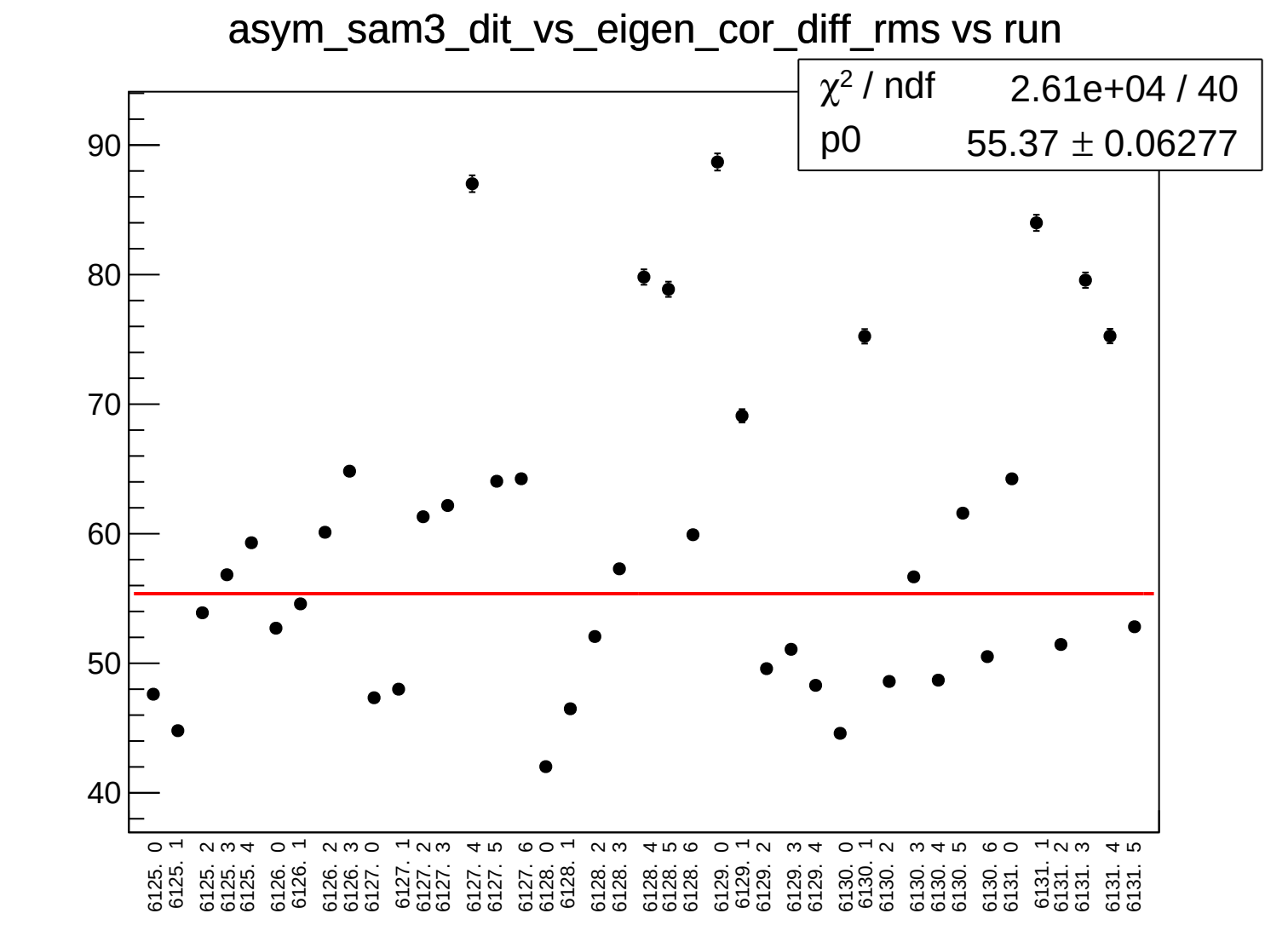

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 2.687e+05 / 40
p0 7.516e−11 ± 1.027e−13
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

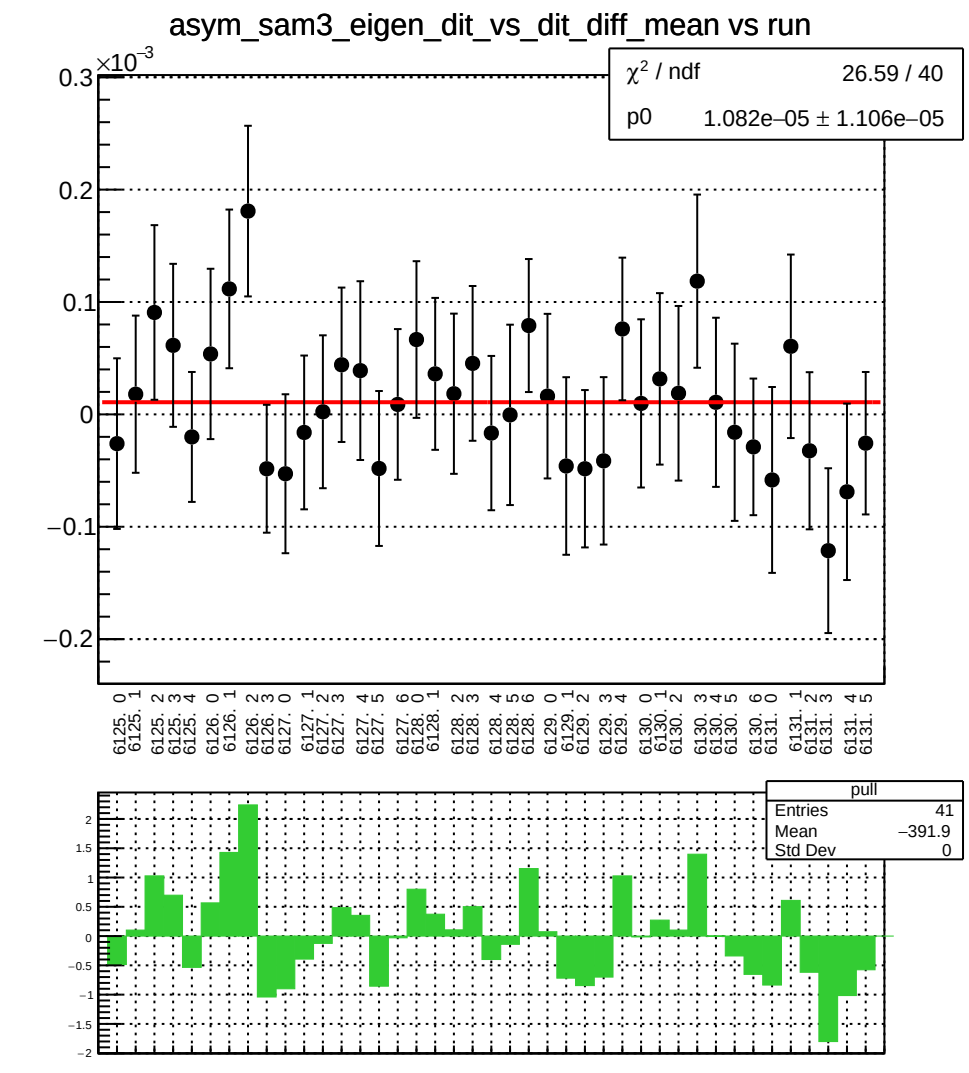

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 38.02 / 40
p0 0.1487 ± 0.08877
pull
Entries 41
Mean −296.5
Std Dev 0
pull1D
Entries 41
Mean 0.01198
Std Dev 0.9629

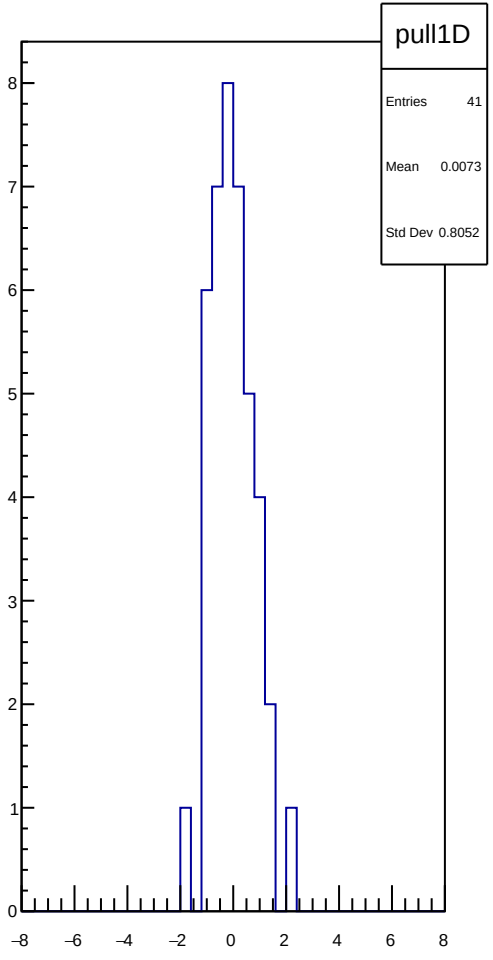

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 2.61e+04 / 40
p0 55.37 ± 0.06277
90
80
70
60
50
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

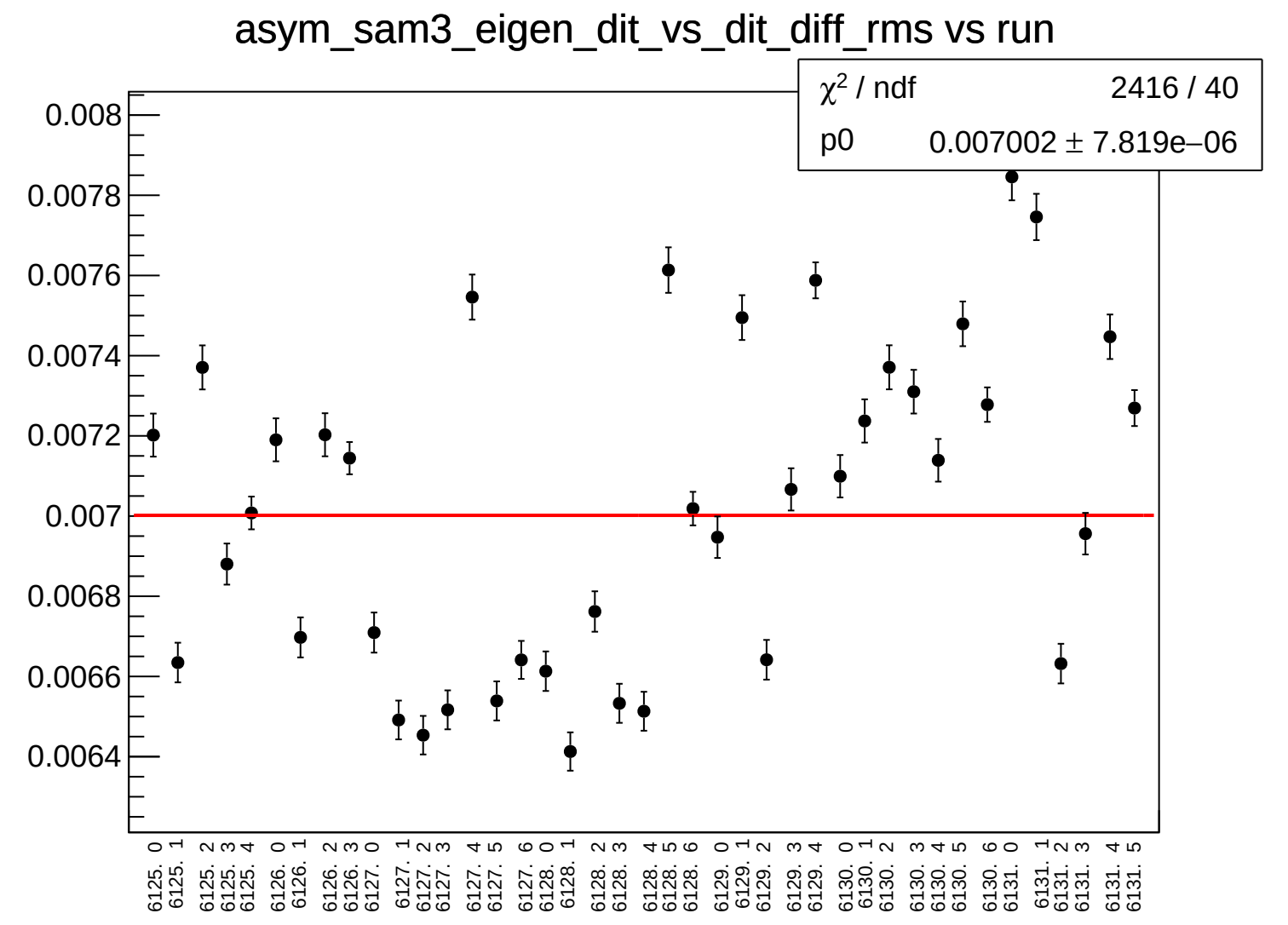

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.02 / 40
p0 0.1487 ± 0.08877
pull
Entries 41
Mean −296.5
Std Dev 0

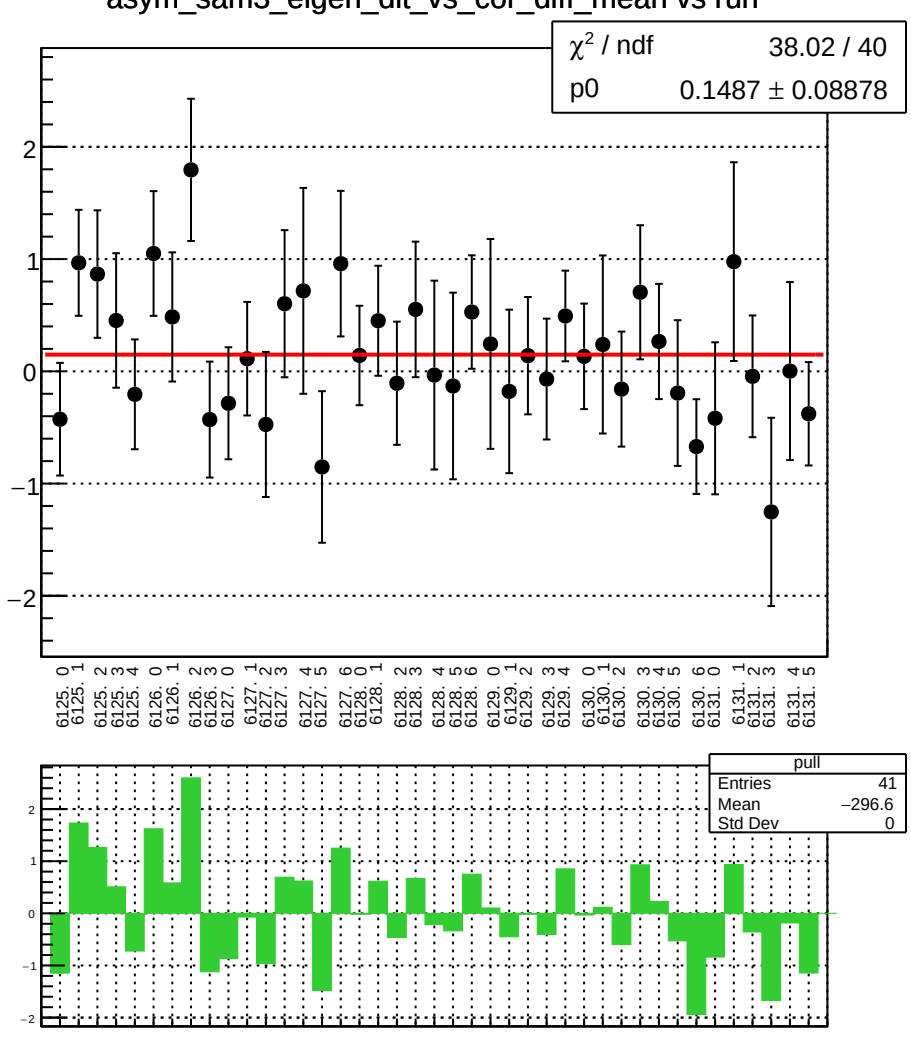

pull1D
Entries 41
Mean 0.01198
Std Dev 0.9629

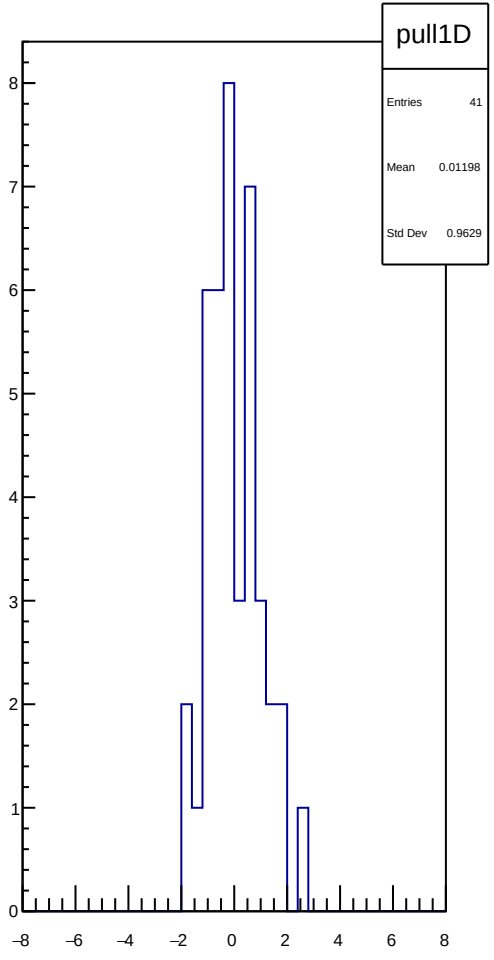

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.61e+04 / 40
p0 55.37 ± 0.06277
90
80
70
60
50
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

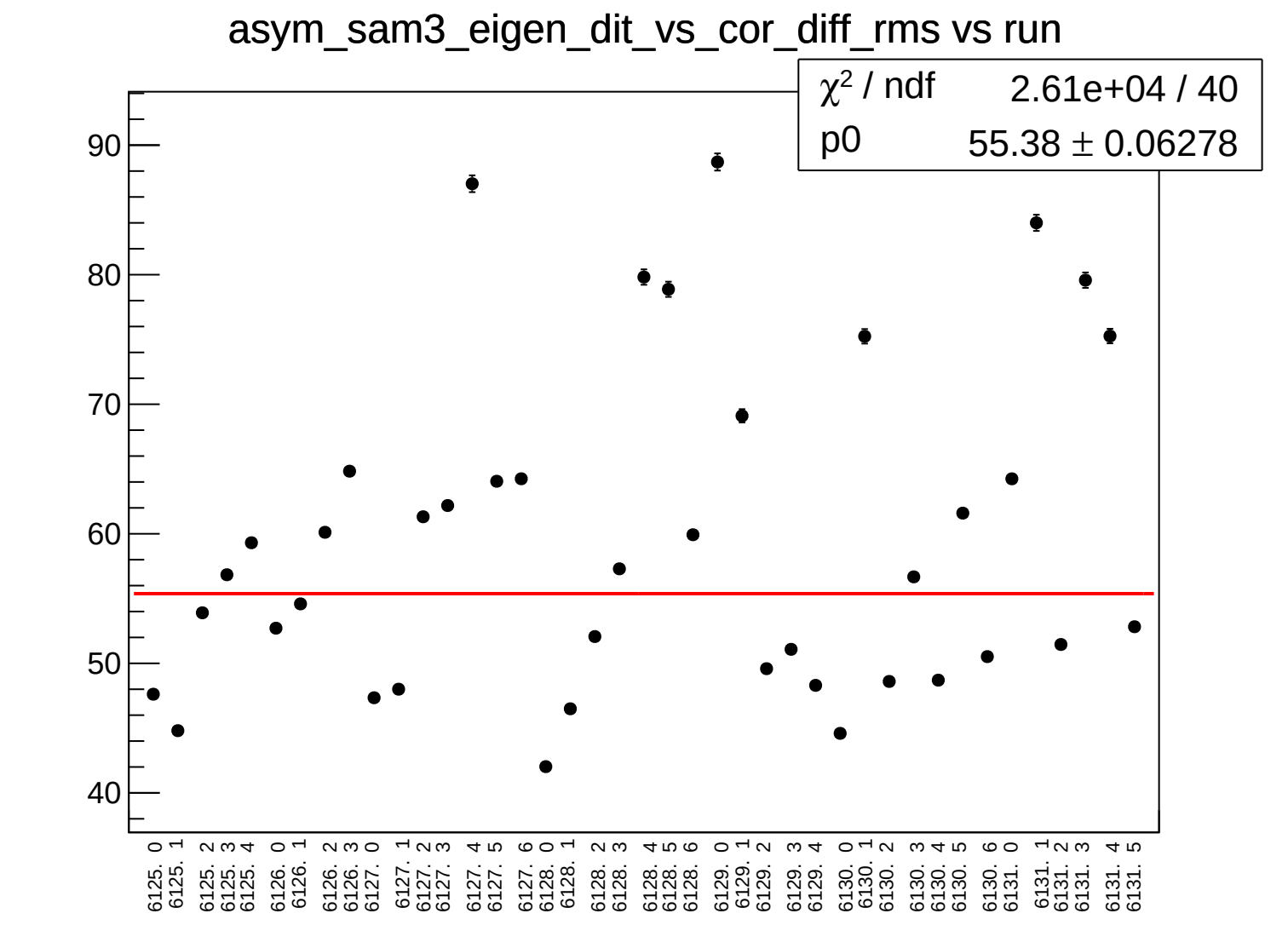

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 26.59 / 40
p0 1.082e−05 ± 1.106e−05
pull
Entries 41
Mean −391.9
Std Dev 0

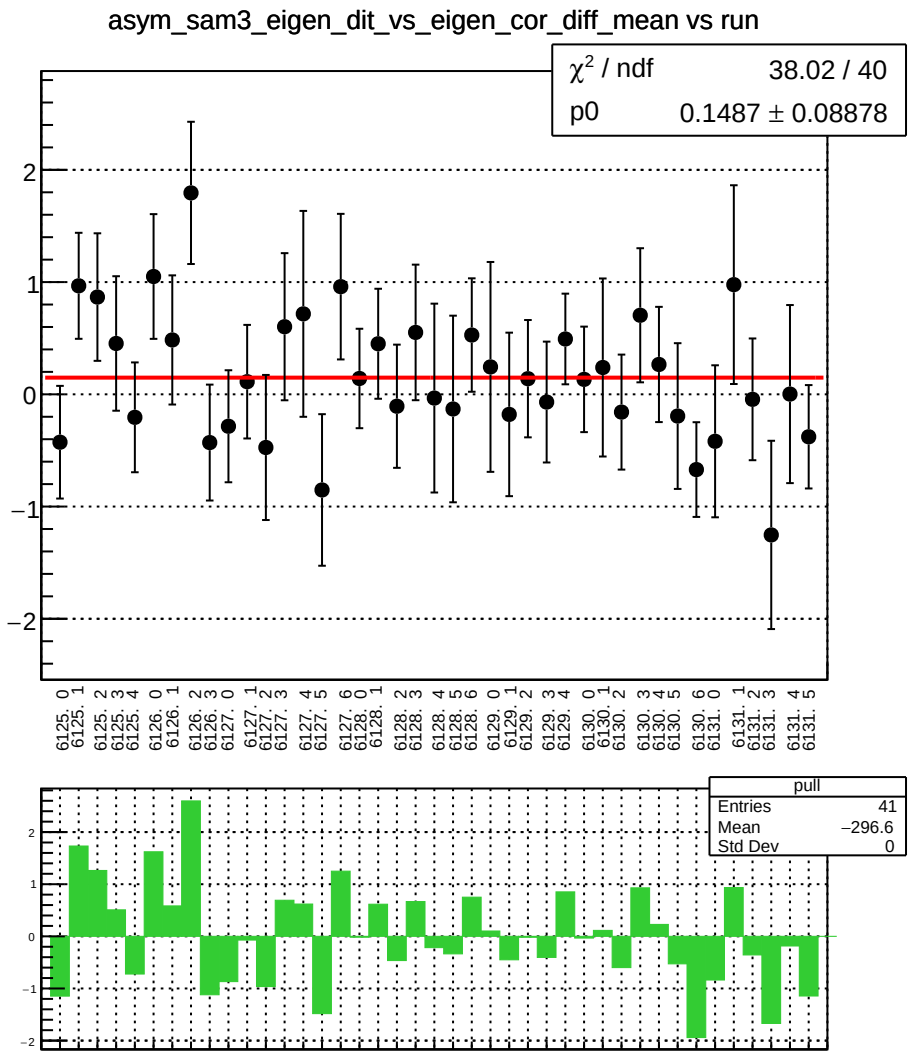

pull1D
Entries 41
Mean 0.0073
Std Dev 0.8052

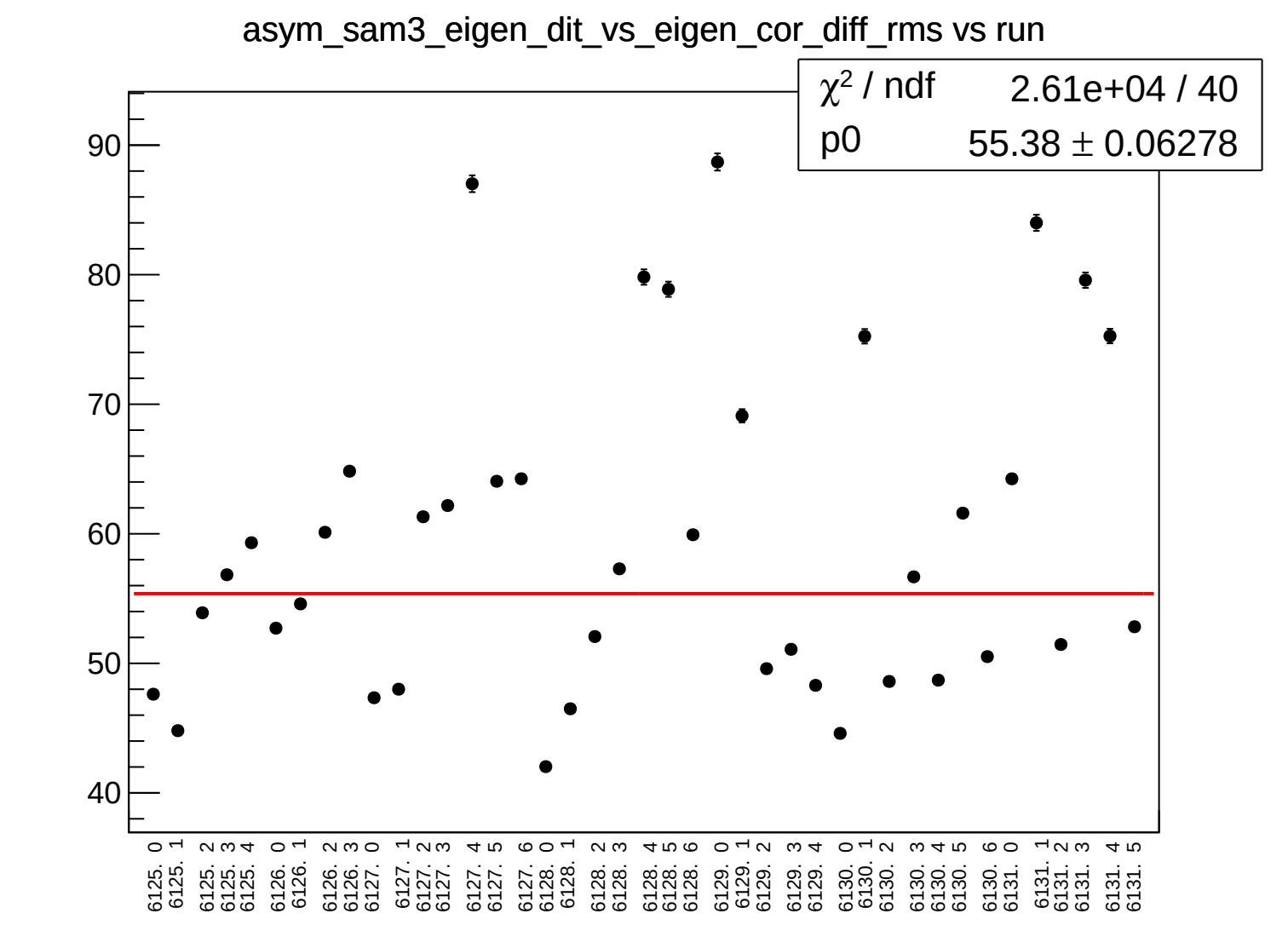

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2416 / 40
p0 0.007002 ± 7.819e−06
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

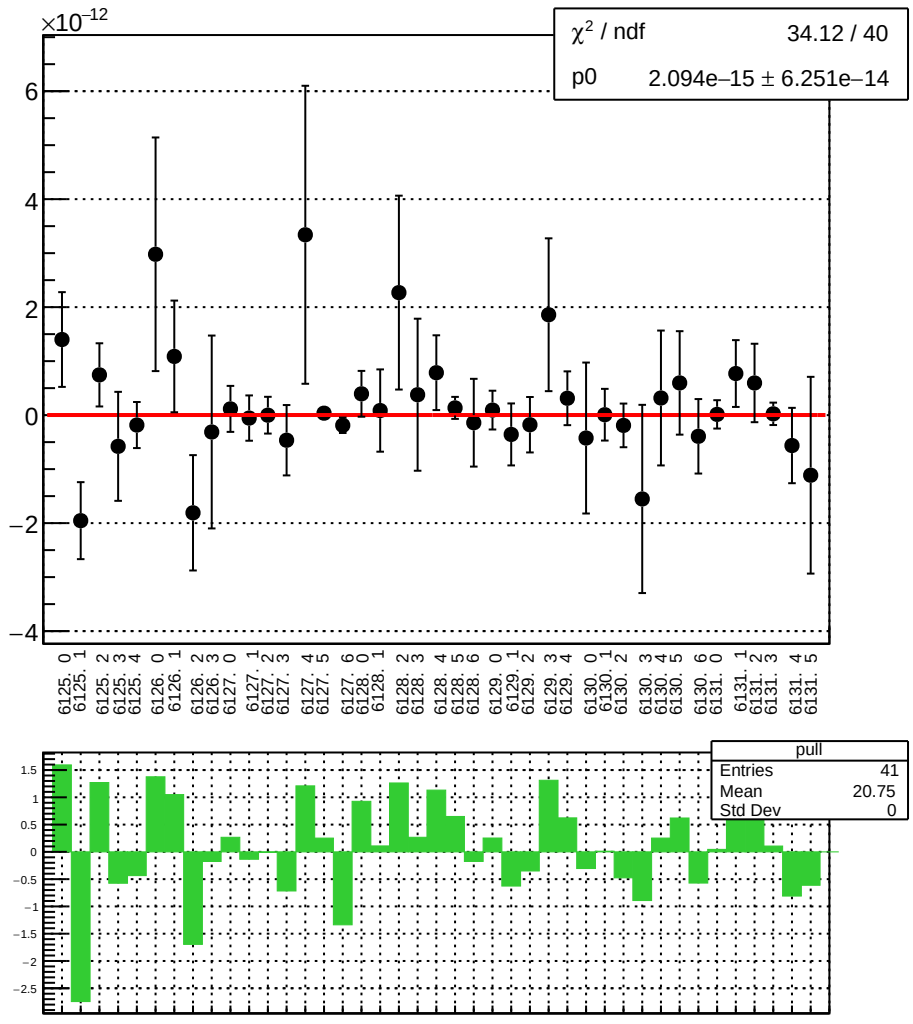

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.02 / 40
p0 0.1487 ± 0.08878
pull
Entries 41
Mean −296.6
Std Dev 0

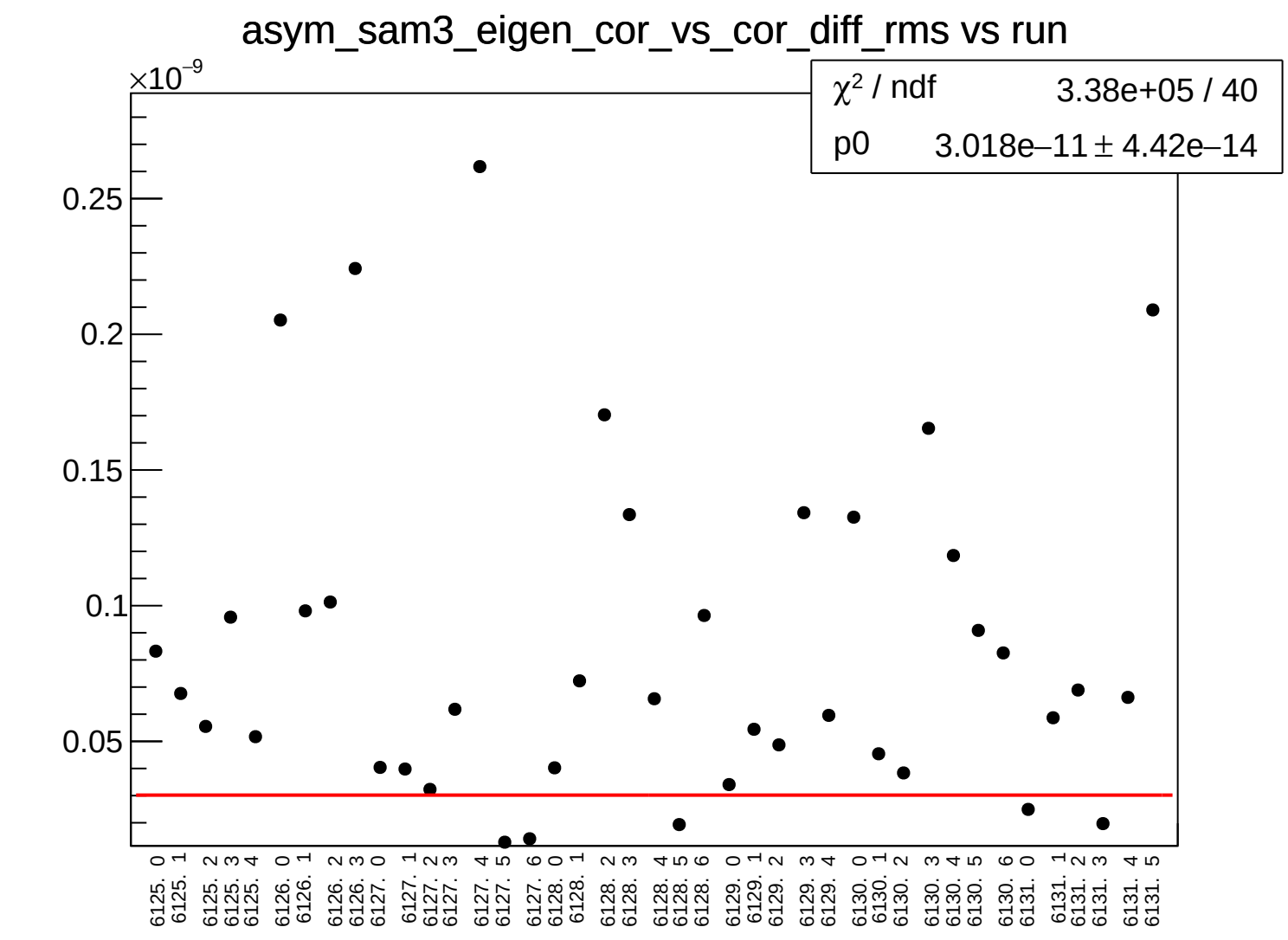

pull1D
Entries 41
Mean 0.01198
Std Dev 0.9629

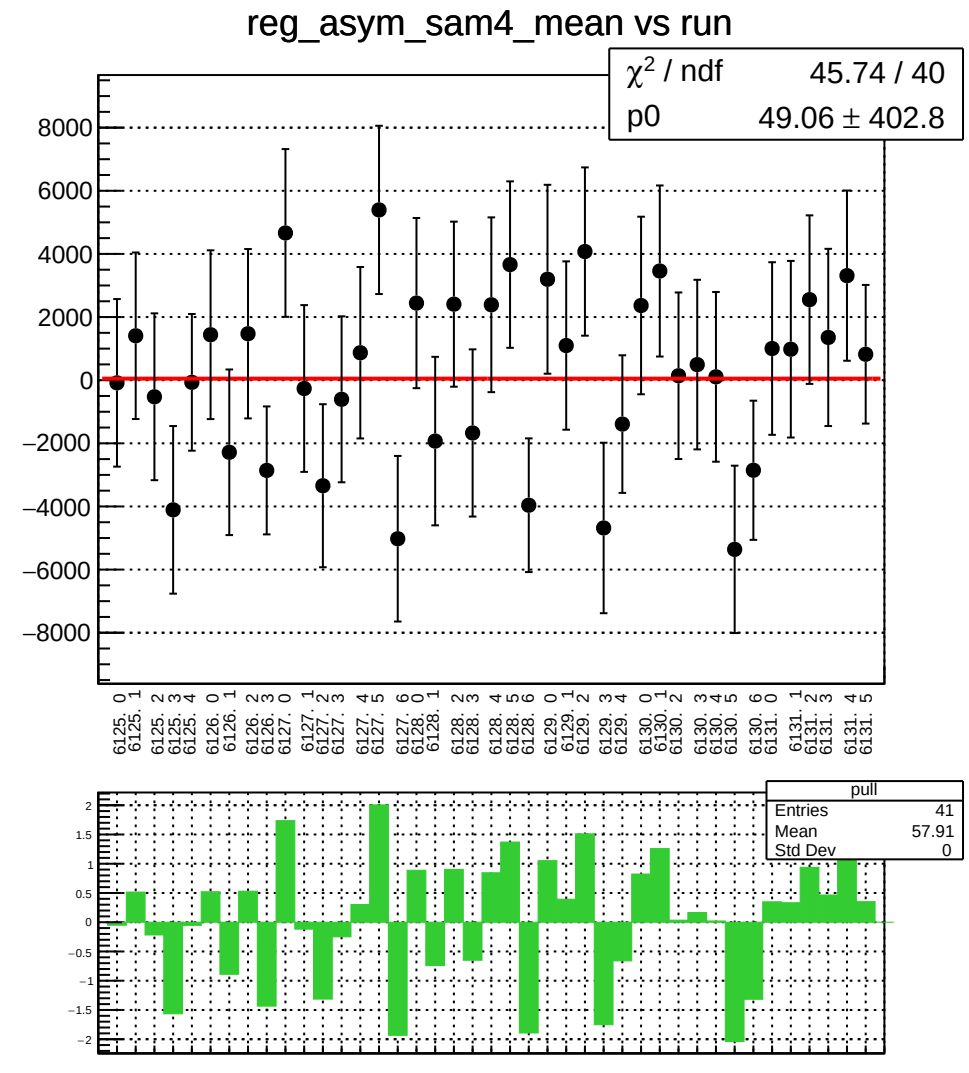

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.61e+04 / 40
p0 55.38 ± 0.06278
90
80
70
60
50
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

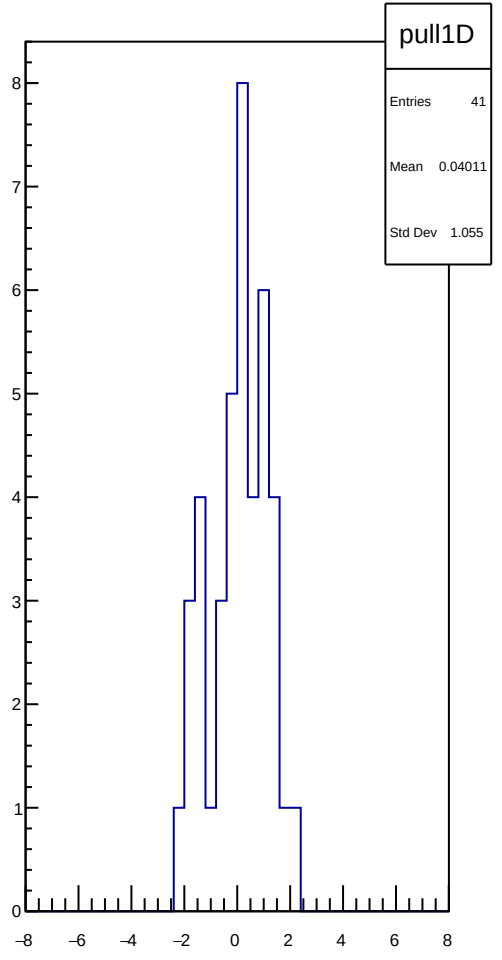

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.02 / 40
p0 0.1487 ± 0.08878
pull
Entries 41
Mean −296.6
Std Dev 0
pull1D
Entries 41
Mean 0.01198
Std Dev 0.9629

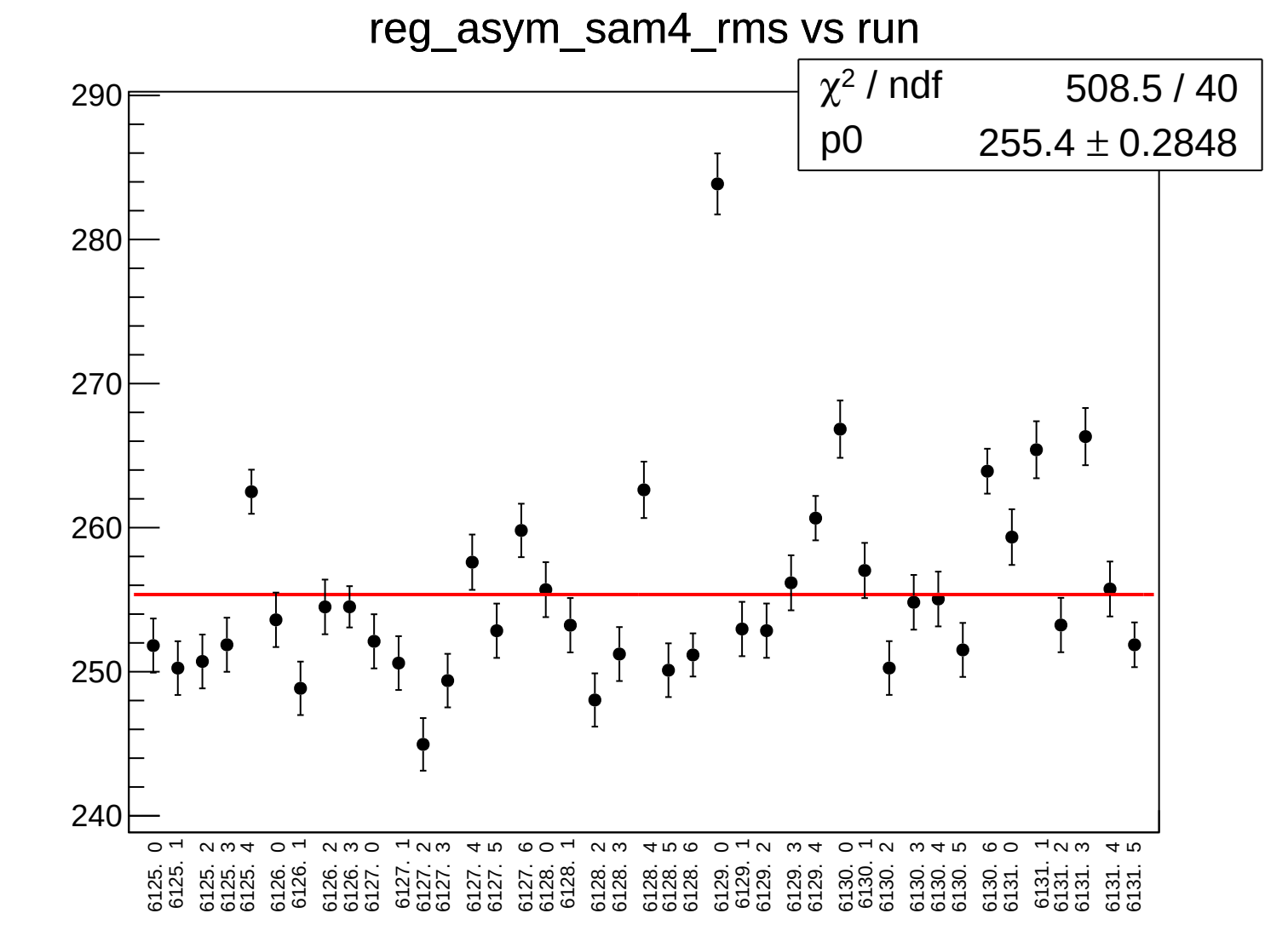

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.61e+04 / 40
p0 55.38 ± 0.06278
90
80
70
60
50
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

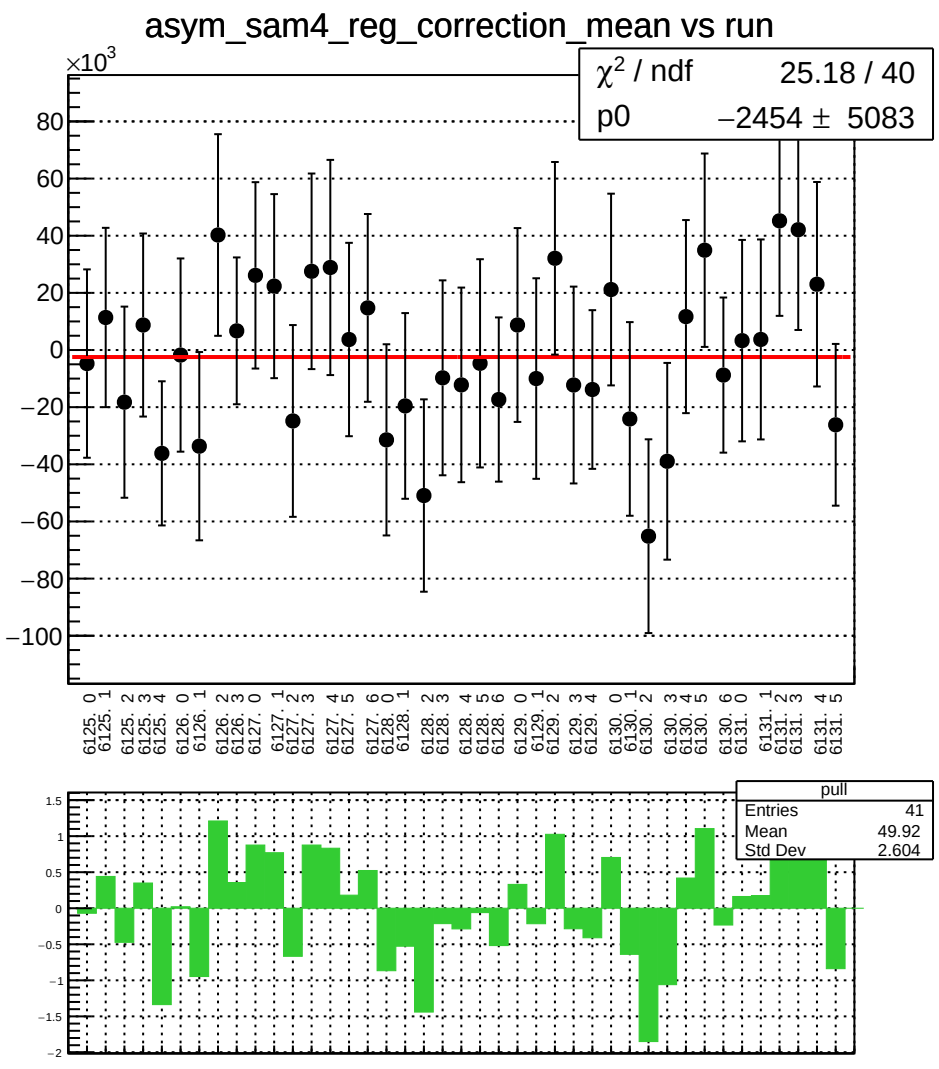

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.12 / 40
p0 2.094e−15 ± 6.251e−14
6
4
2
0
−2
−4
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 20.75
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean 0.0978
Std Dev 0.907
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

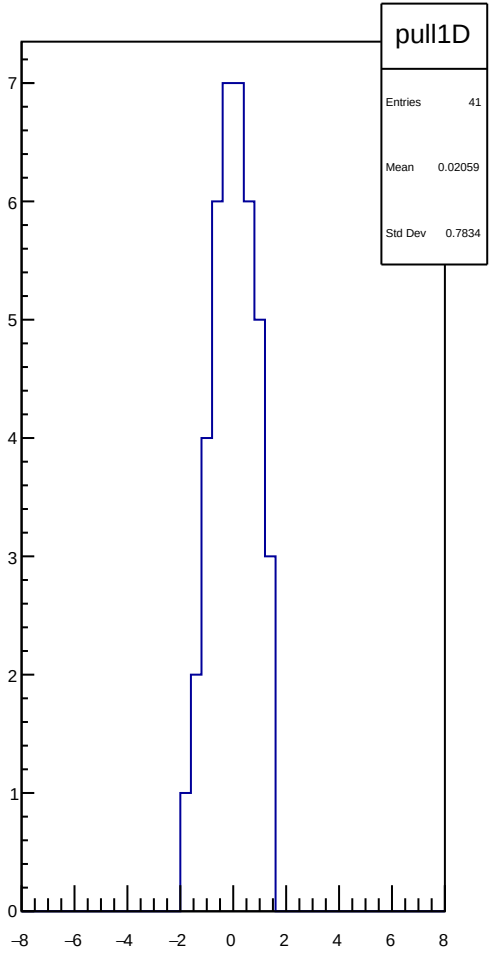

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.38e+05 / 40
p0 3.018e−11 ± 4.42e−14
0.25
0.2
0.15
0.1
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

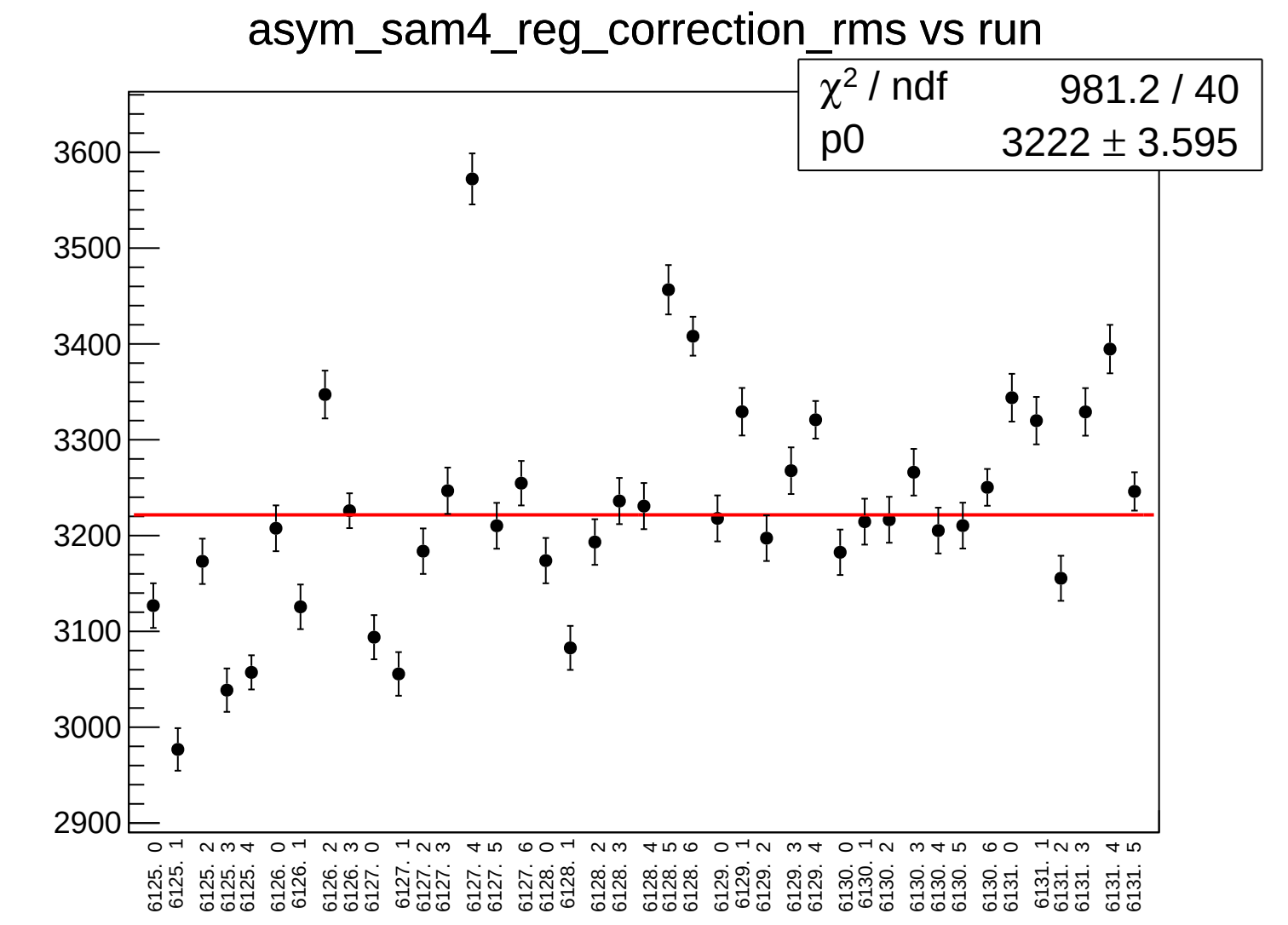

reg_asym_sam4_mean vs run
χ² / ndf 45.74 / 40
p0 49.06 ± 402.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 57.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

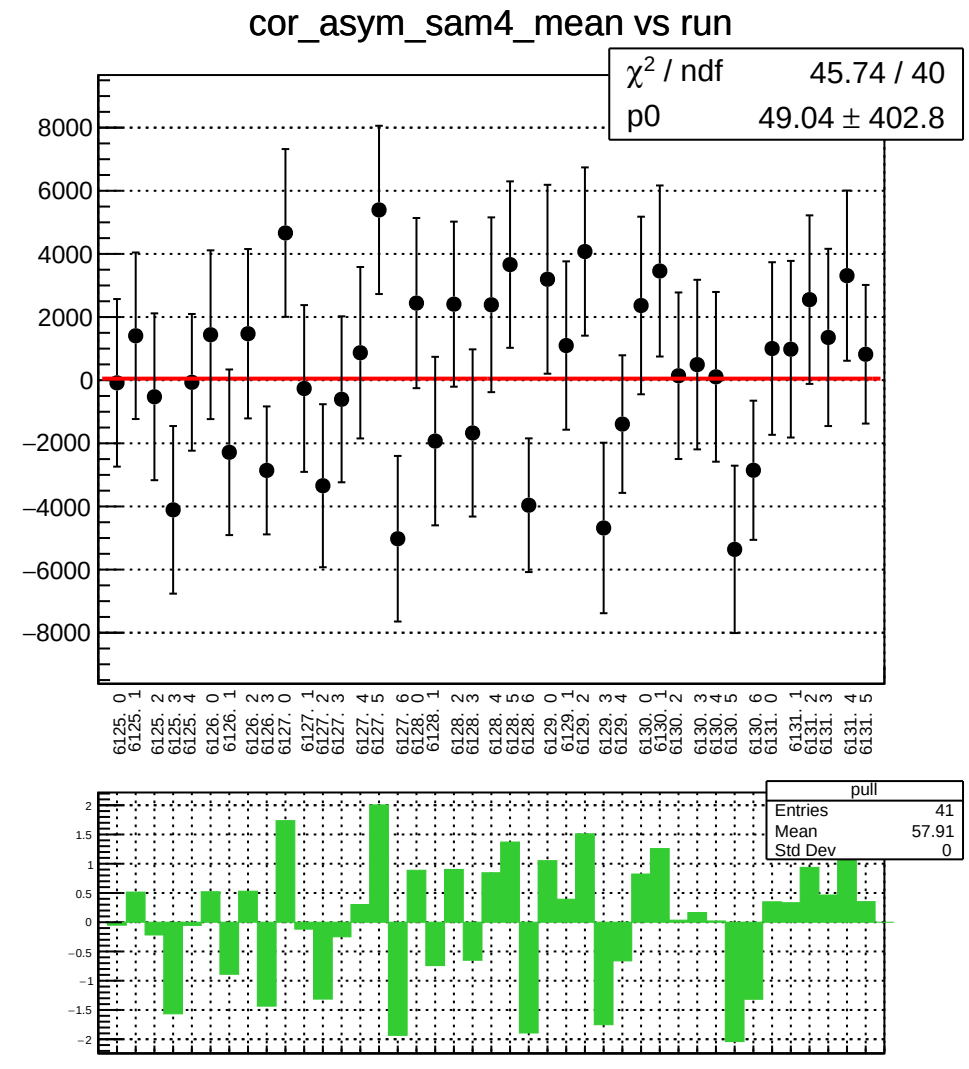

pull1D
Entries 41
Mean 0.04011
Std Dev 1.055
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

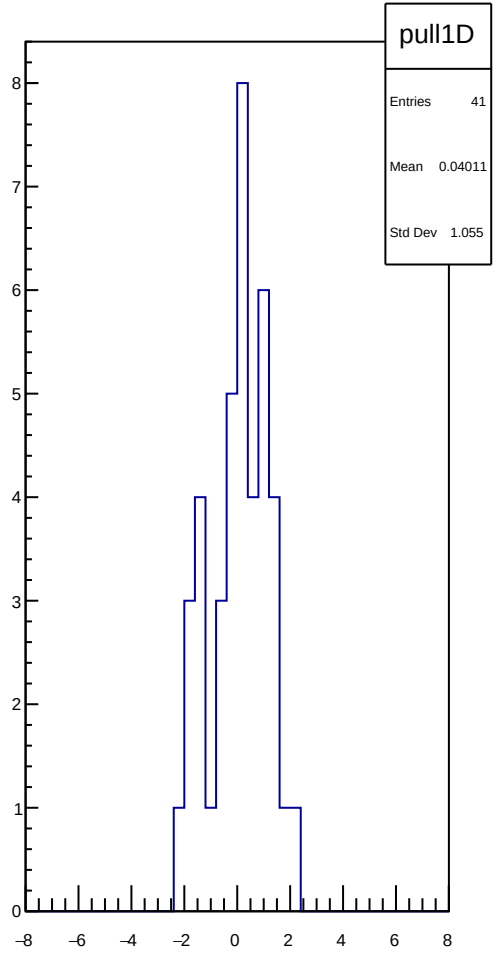

reg_asym_sam4_rms vs run
χ² / ndf 508.5 / 40
p0 255.4 ± 0.2848
290
280
270
260
250
240
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

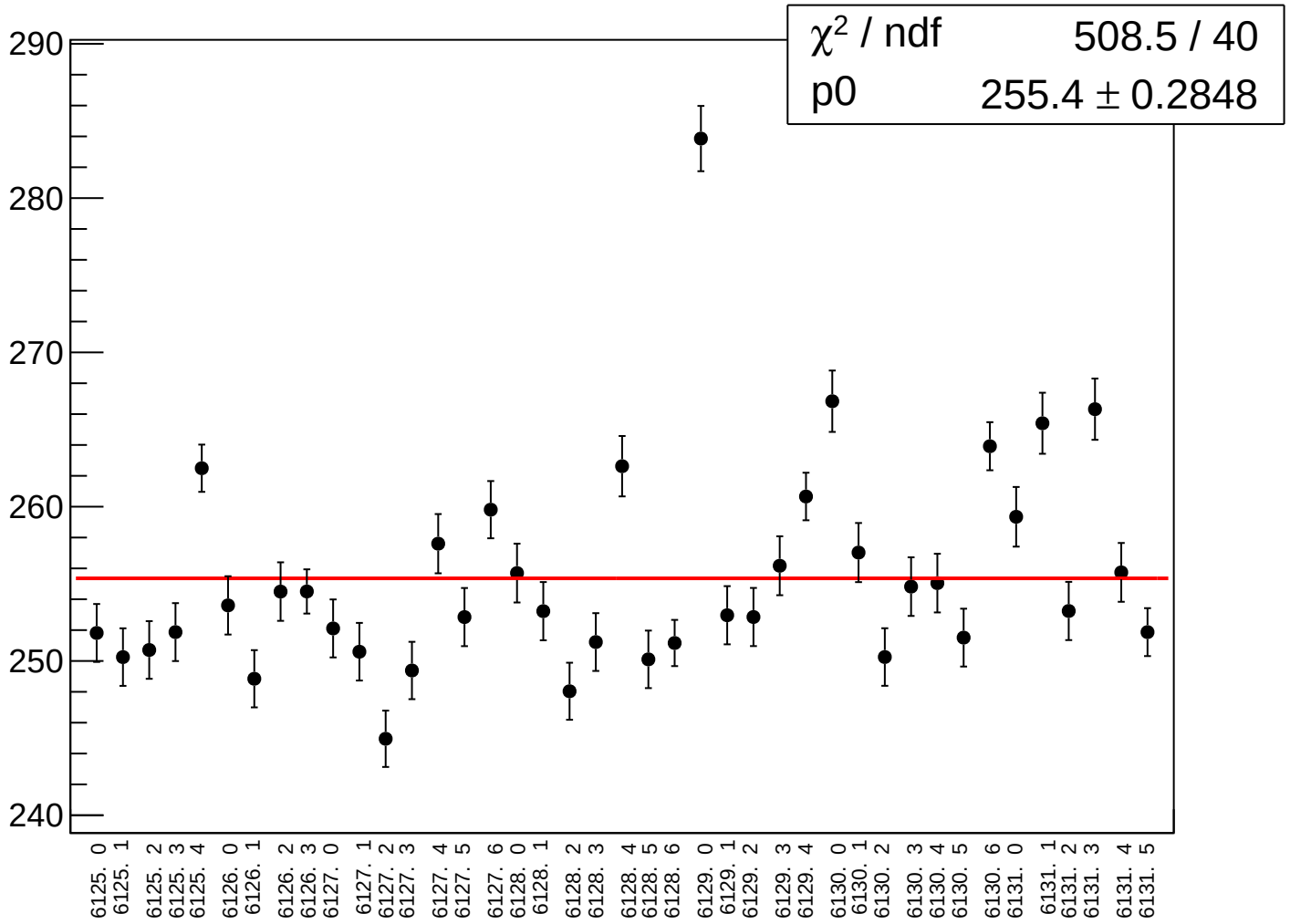

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 25.18 / 40
p0 −2454 ± 5083
80
60
40
20
0
−20
−40
−60
−80
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 49.92
Std Dev 2.604
1.5
1
0.5
0
−0.5
−1
−1.5
−2

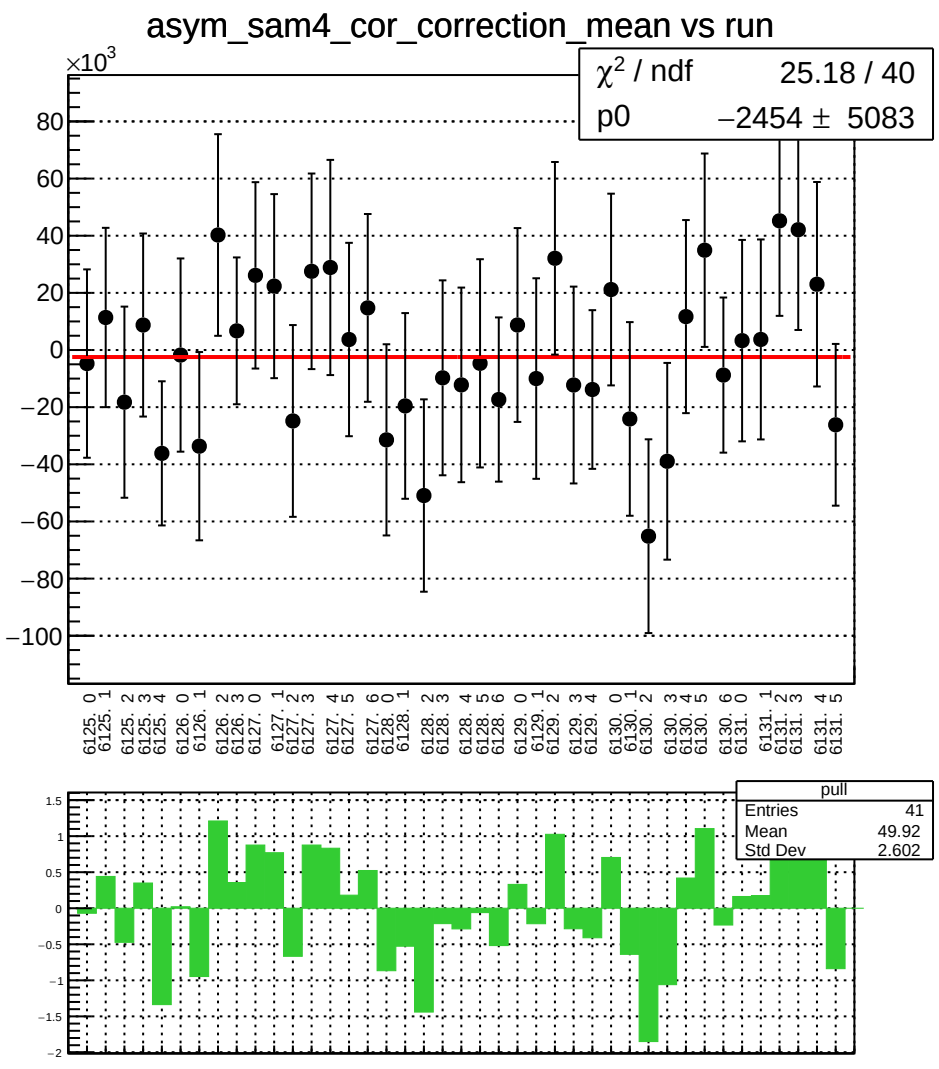

pull1D
Entries 41
Mean 0.02059
Std Dev 0.7834
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

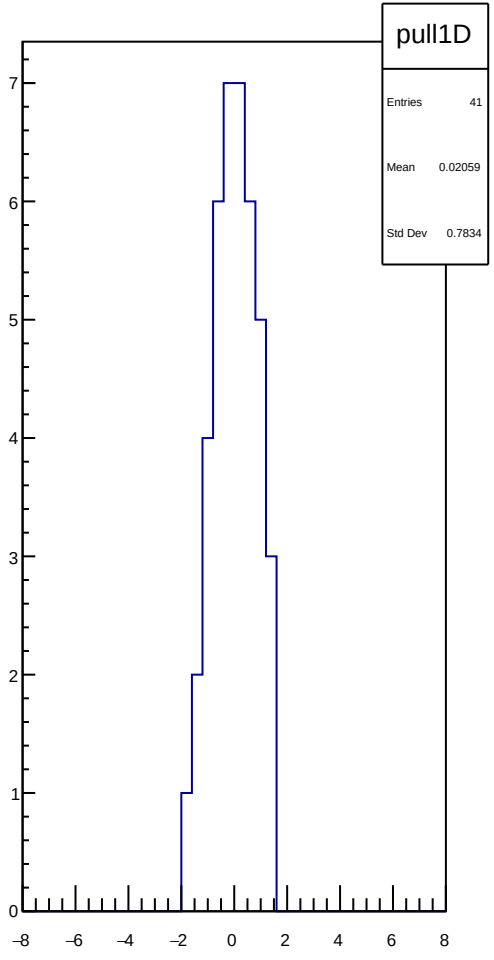

asym_sam4_reg_correction_rms vs run
χ² / ndf 981.2 / 40
p0 3222 ± 3.595
3600
3500
3400
3300
3200
3100
3000
2900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

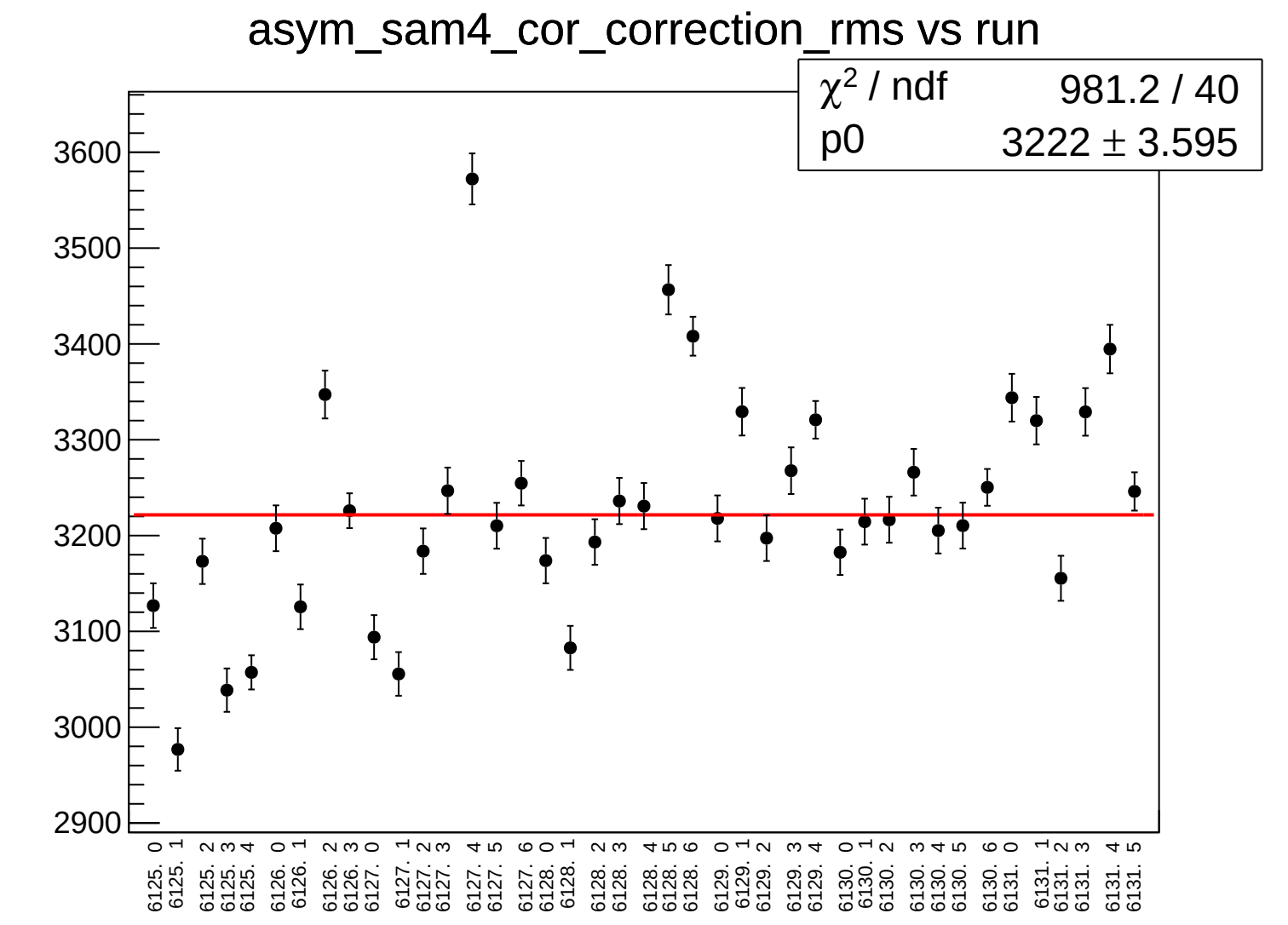

cor_asym_sam4_mean vs run
χ² / ndf 45.74 / 40
p0 49.04 ± 402.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 57.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

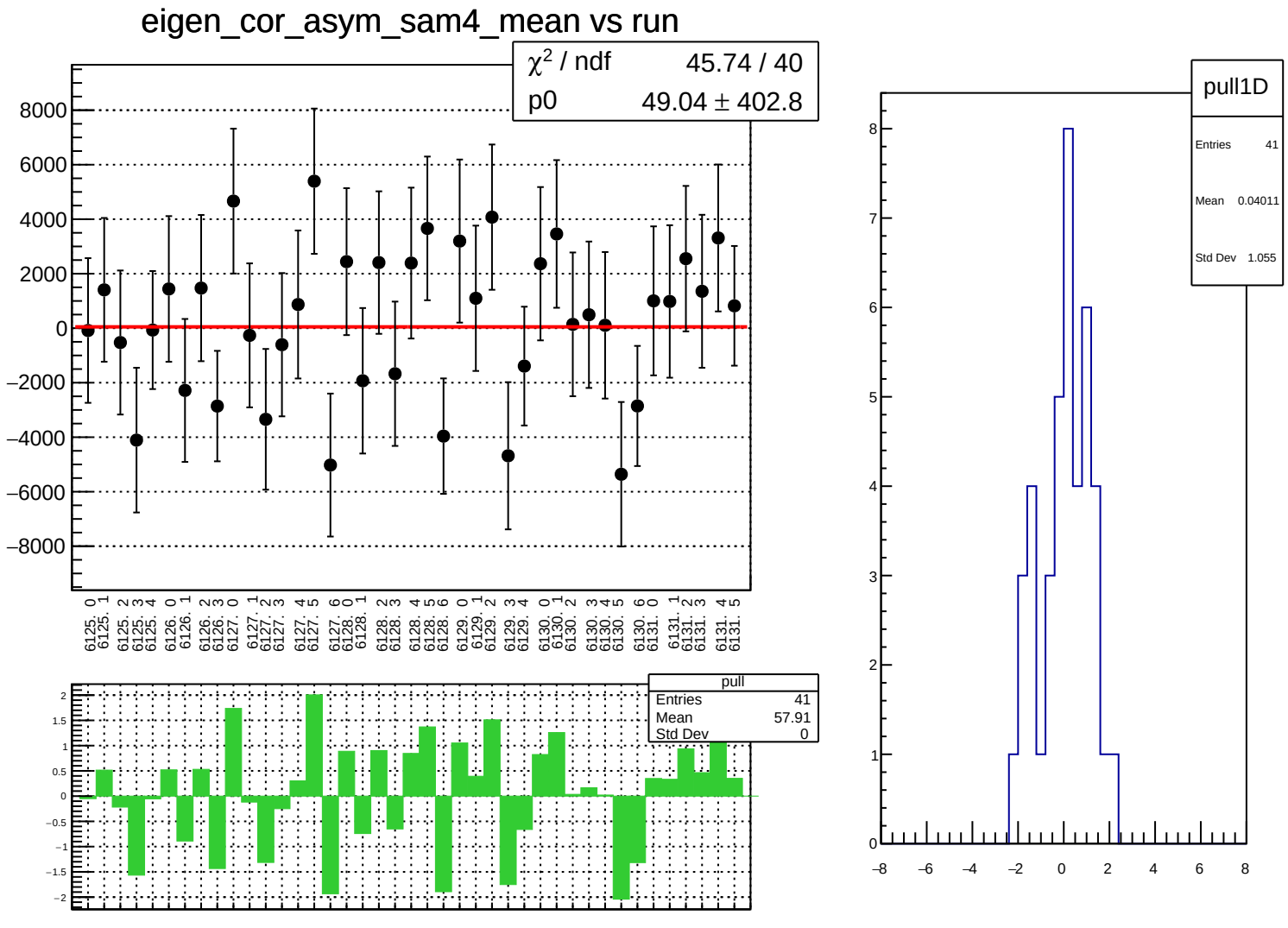

pull1D
Entries 41
Mean 0.04011
Std Dev 1.055
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

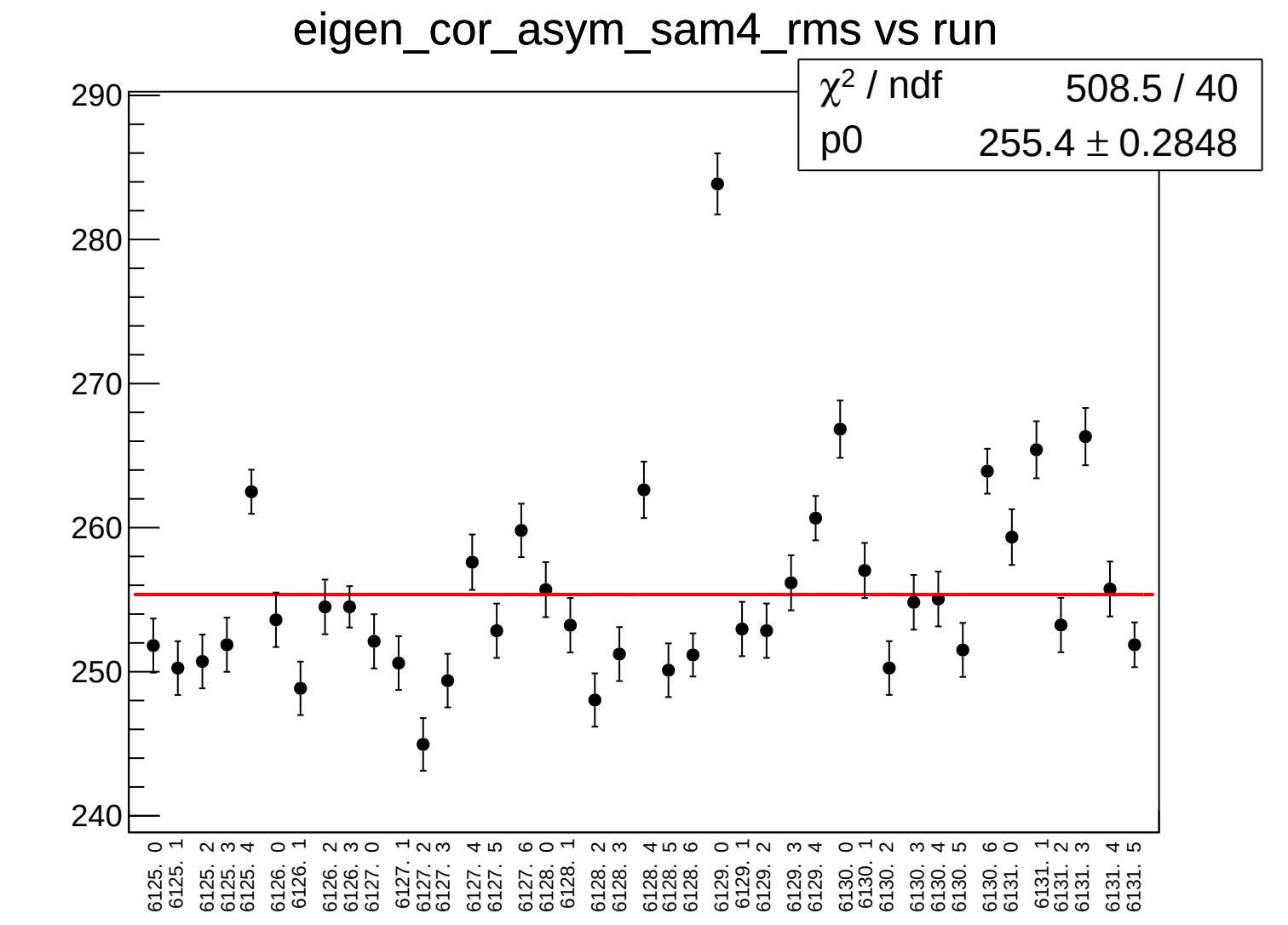

cor_asym_sam4_rms vs run
χ² / ndf 508.5 / 40
p0 255.4 ± 0.2848
290
280
270
260
250
240
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

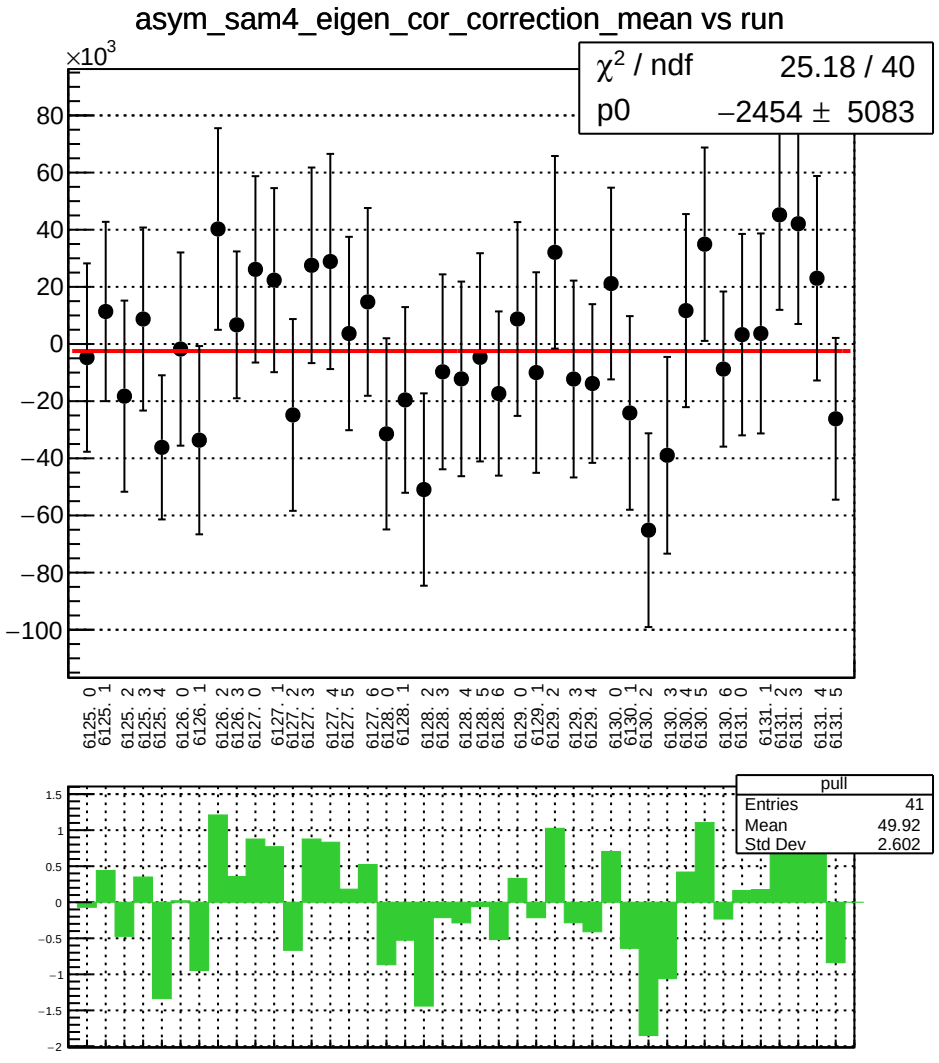

asym_sam4_cor_correction_mean vs run
χ² / ndf 25.18 / 40
p0 −2454 ± 5083
×10³
pull
Entries 41
Mean 49.92
Std Dev 2.602

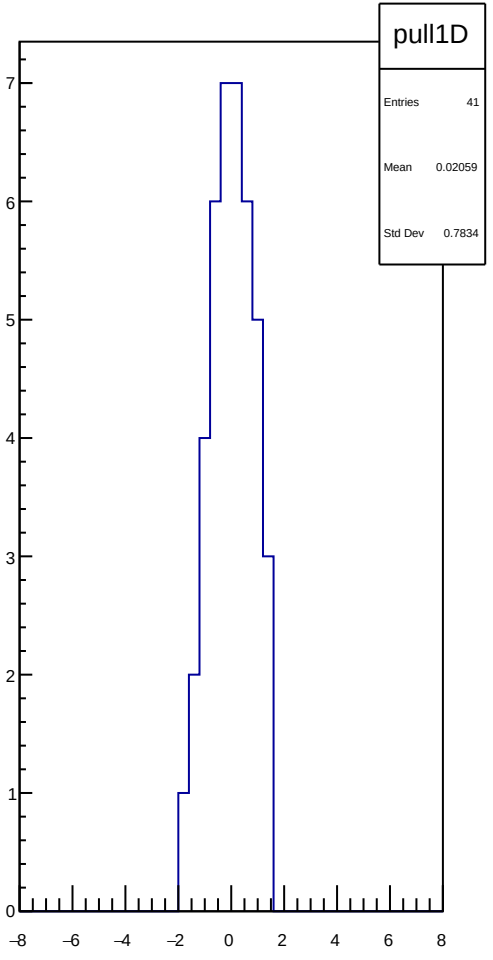

pull1D
Entries 41
Mean 0.02059
Std Dev 0.7834

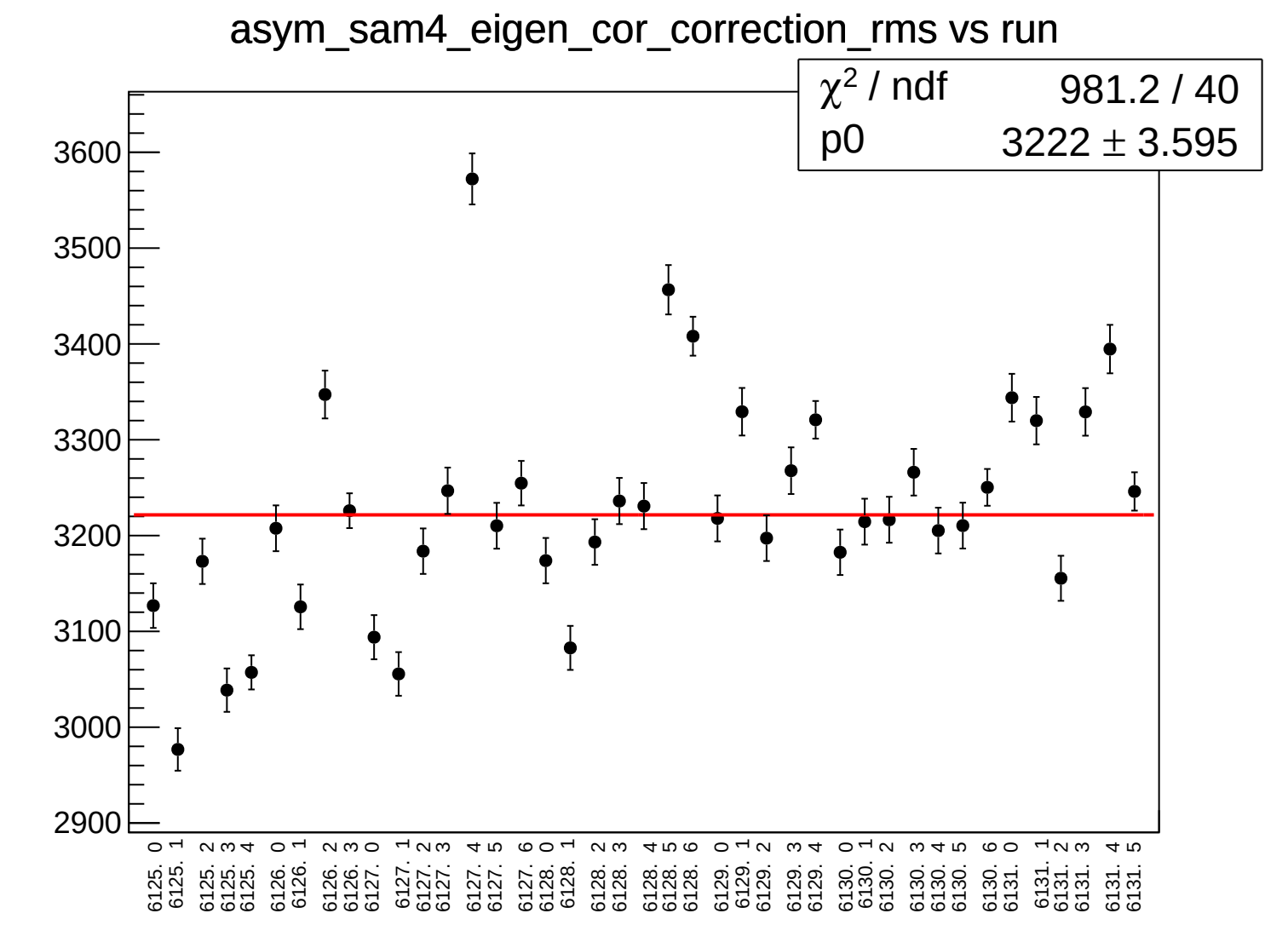

asym_sam4_cor_correction_rms vs run
χ² / ndf 981.2 / 40
p0 3222 ± 3.595
3600
3500
3400
3300
3200
3100
3000
2900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_sam4_mean vs run
χ² / ndf 45.74 / 40
p0 49.04 ± 402.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 57.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.04011
Std Dev 1.055
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam4_rms vs run
χ² / ndf 508.5 / 40
p0 255.4 ± 0.2848
290
280
270
260
250
240
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 25.18 / 40
p0 −2454 ± 5083
pull
Entries 41
Mean 49.92
Std Dev 2.602


pull1D
Entries 41
Mean 0.02059
Std Dev 0.7834


asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 981.2 / 40
p0 3222 ± 3.595
3600
3500
3400
3300
3200
3100
3000
2900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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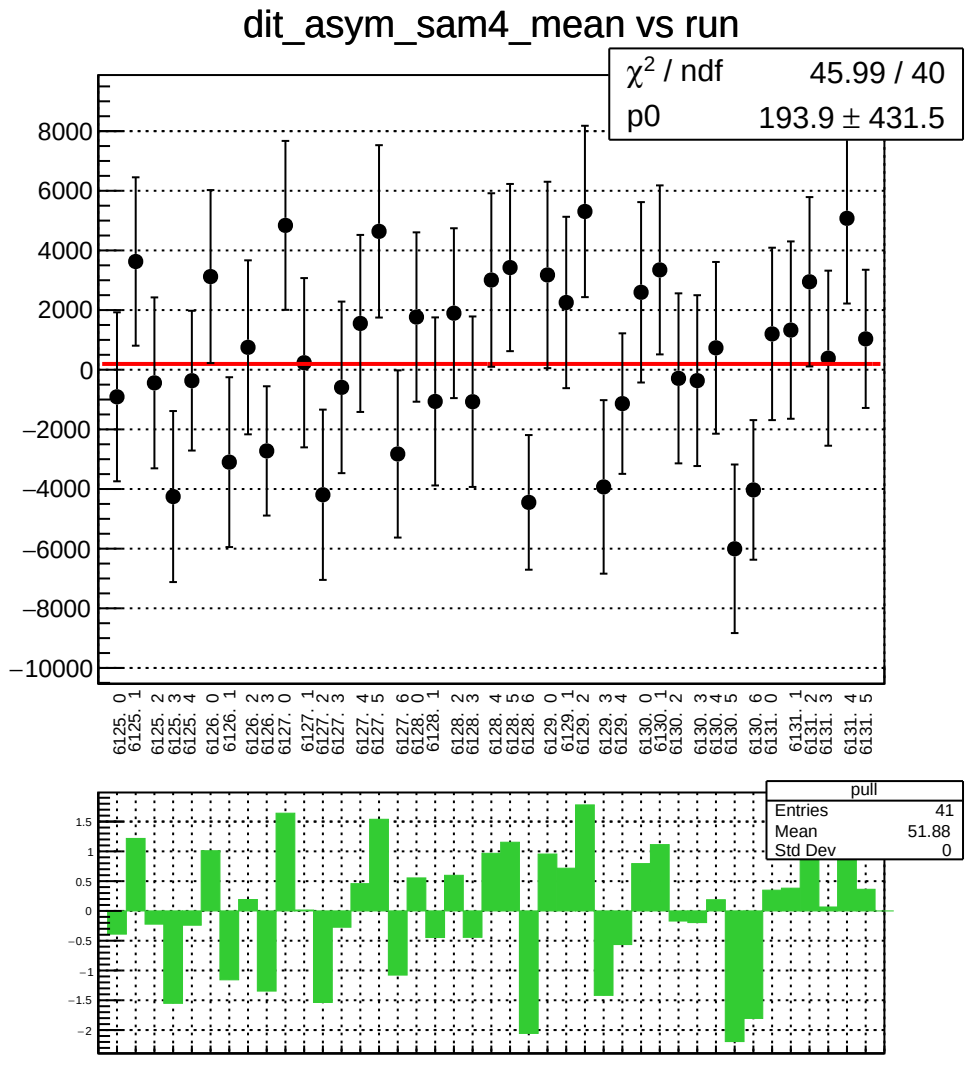
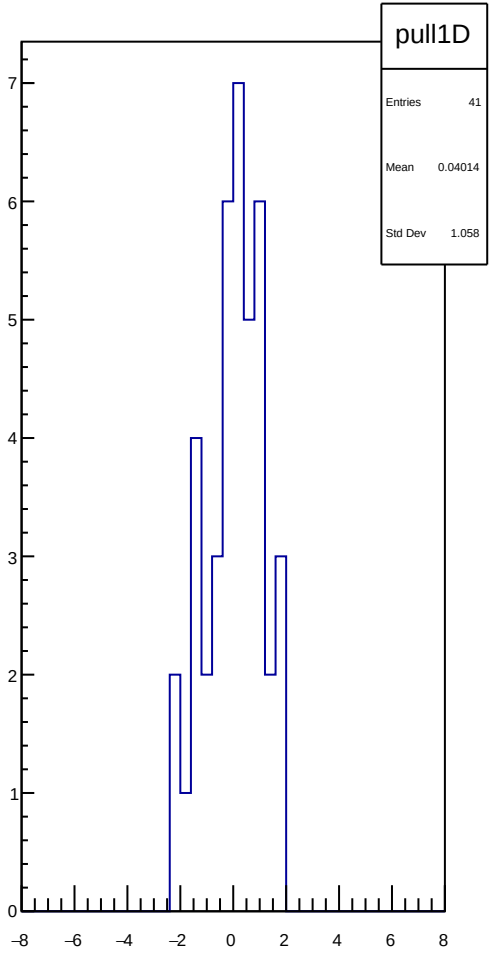
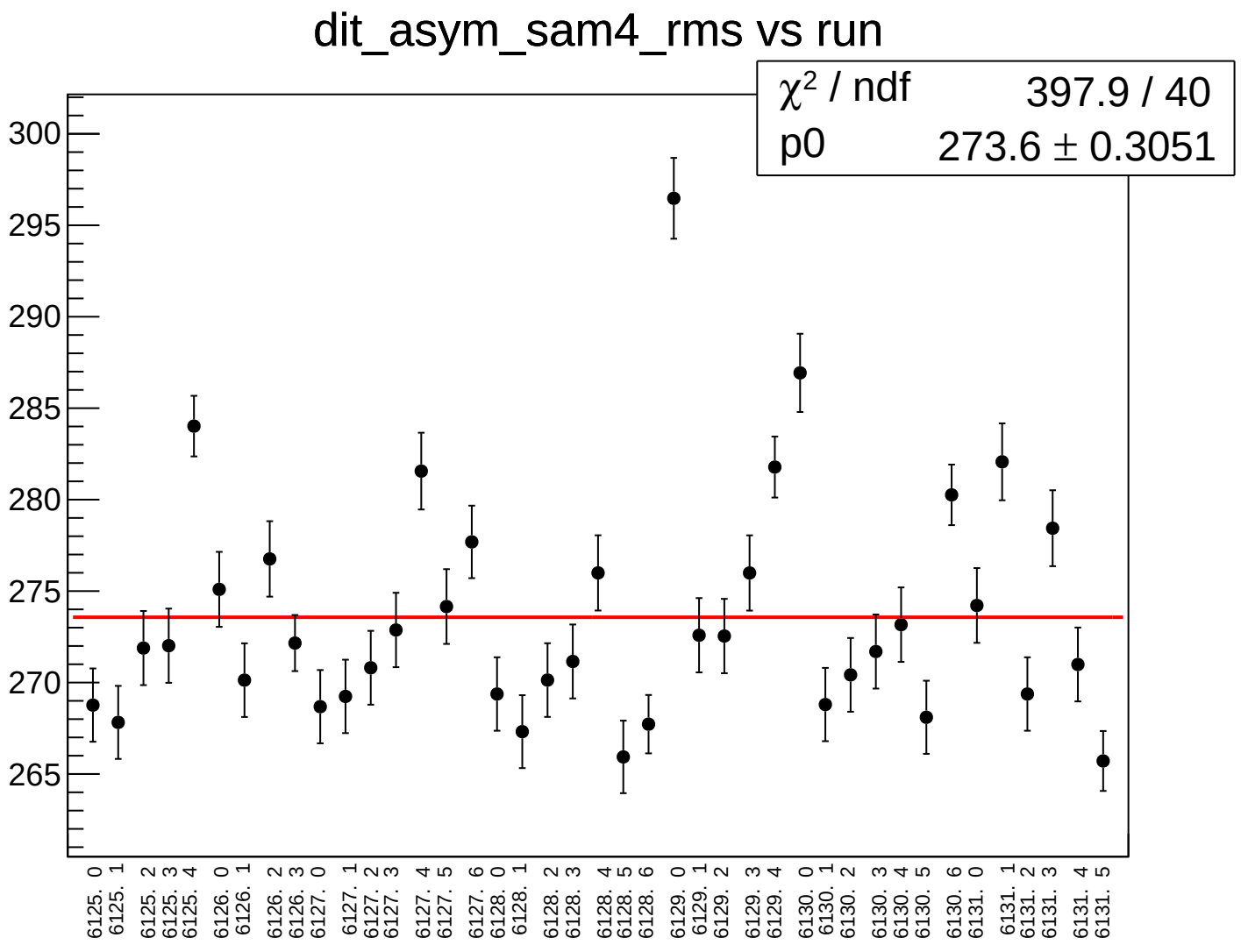
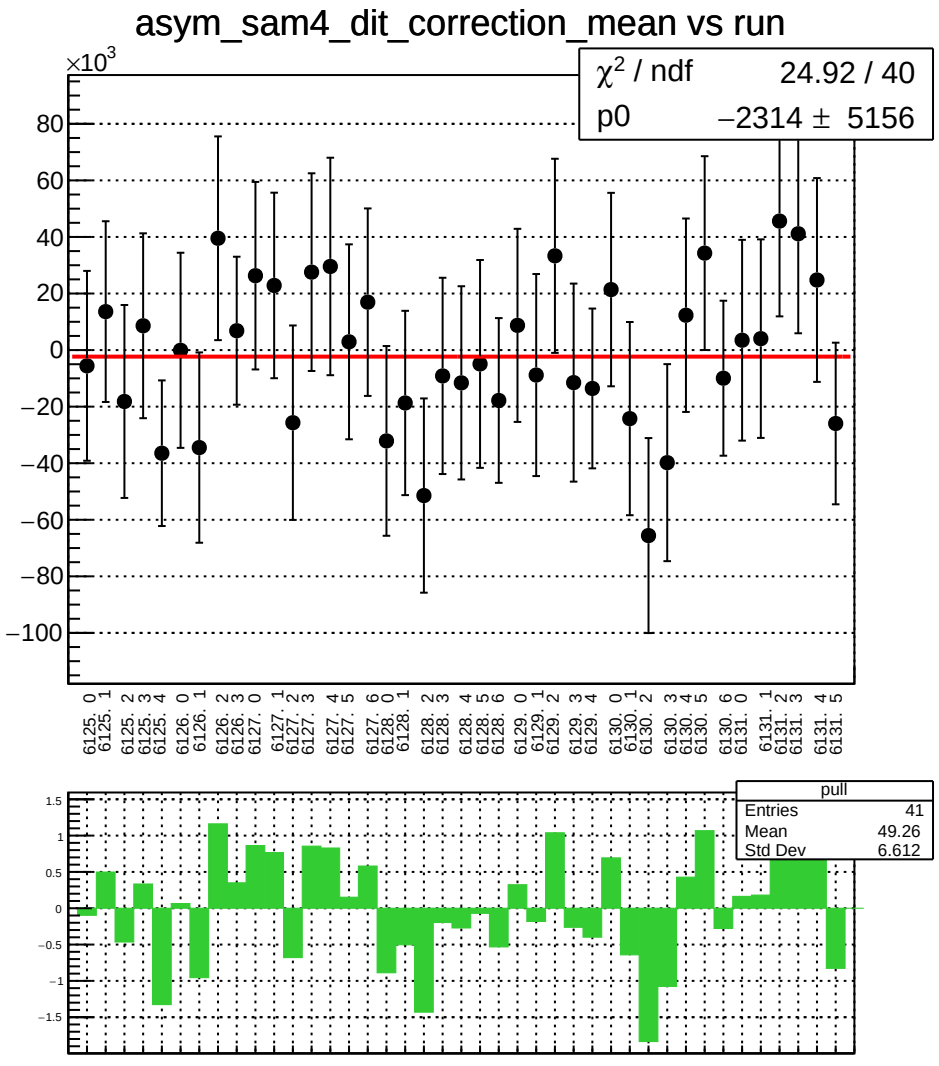
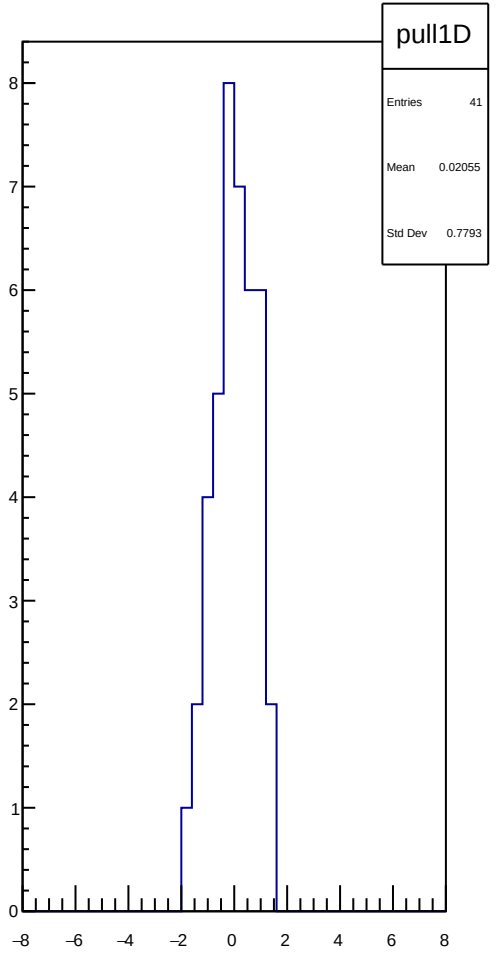
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

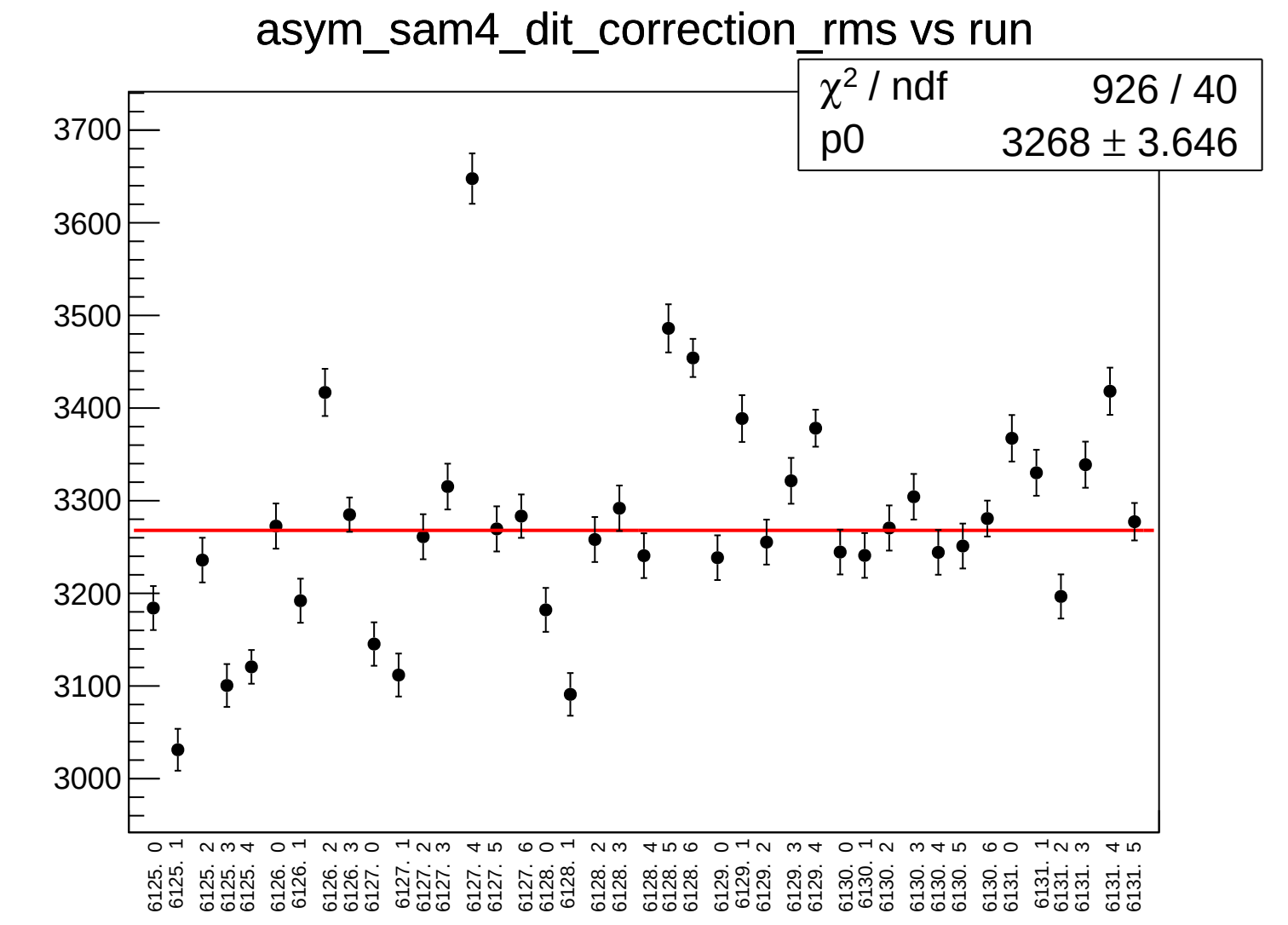

dit_asym_sam4_mean vs run
χ² / ndf 45.99 / 40
p0 193.9 ± 431.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 51.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.04014
Std Dev 1.058
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 397.9 / 40
p0 273.6 ± 0.3051
300
295
290
285
280
275
270
265
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 24.92 / 40
p0 −2314 ± 5156
pull
Entries 41
Mean 49.26
Std Dev 6.612


pull1D
Entries 41
Mean 0.02055
Std Dev 0.7793


asym_sam4_dit_correction_rms vs run
χ² / ndf 926 / 40
p0 3268 ± 3.646
3700
3600
3500
3400
3300
3200
3100
3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
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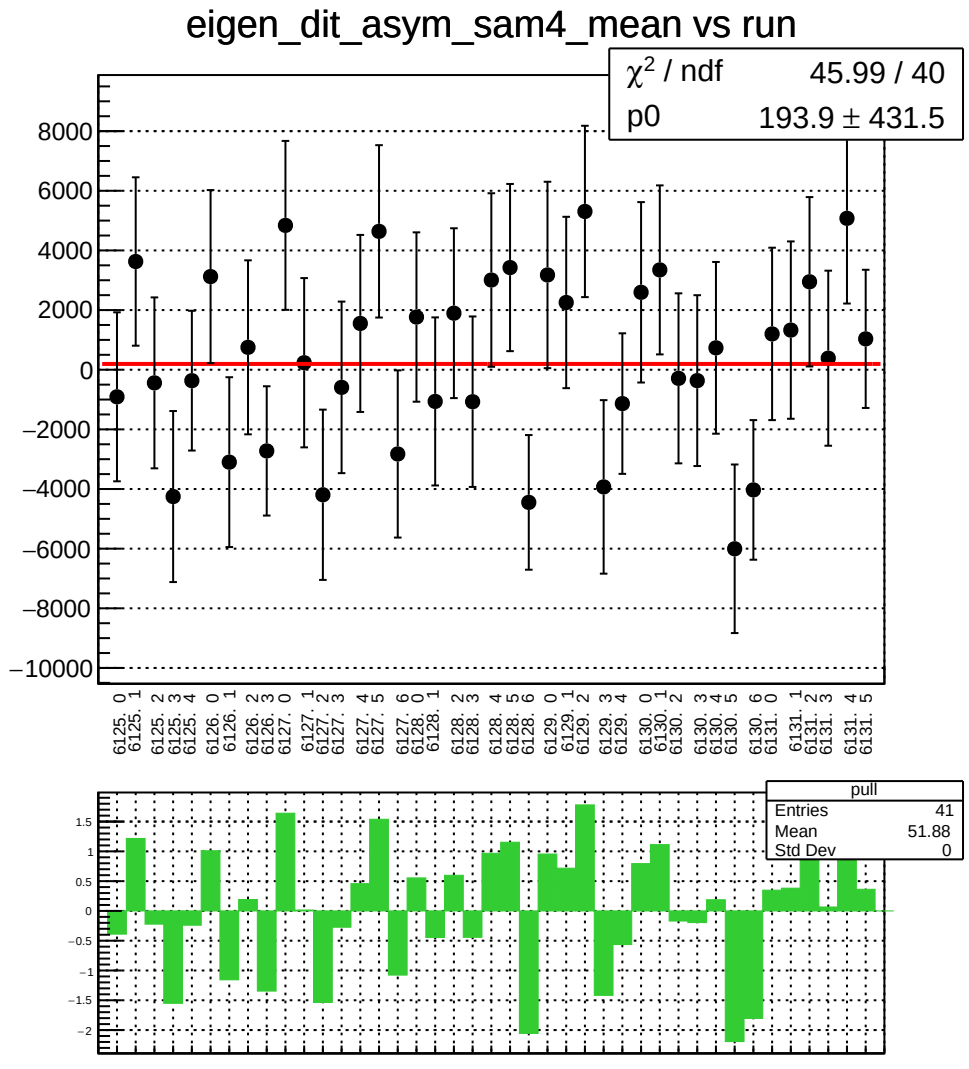
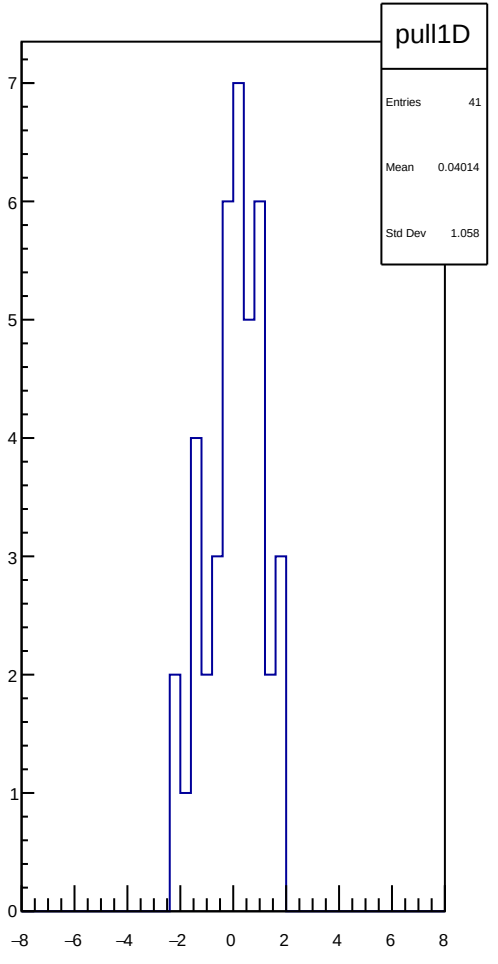
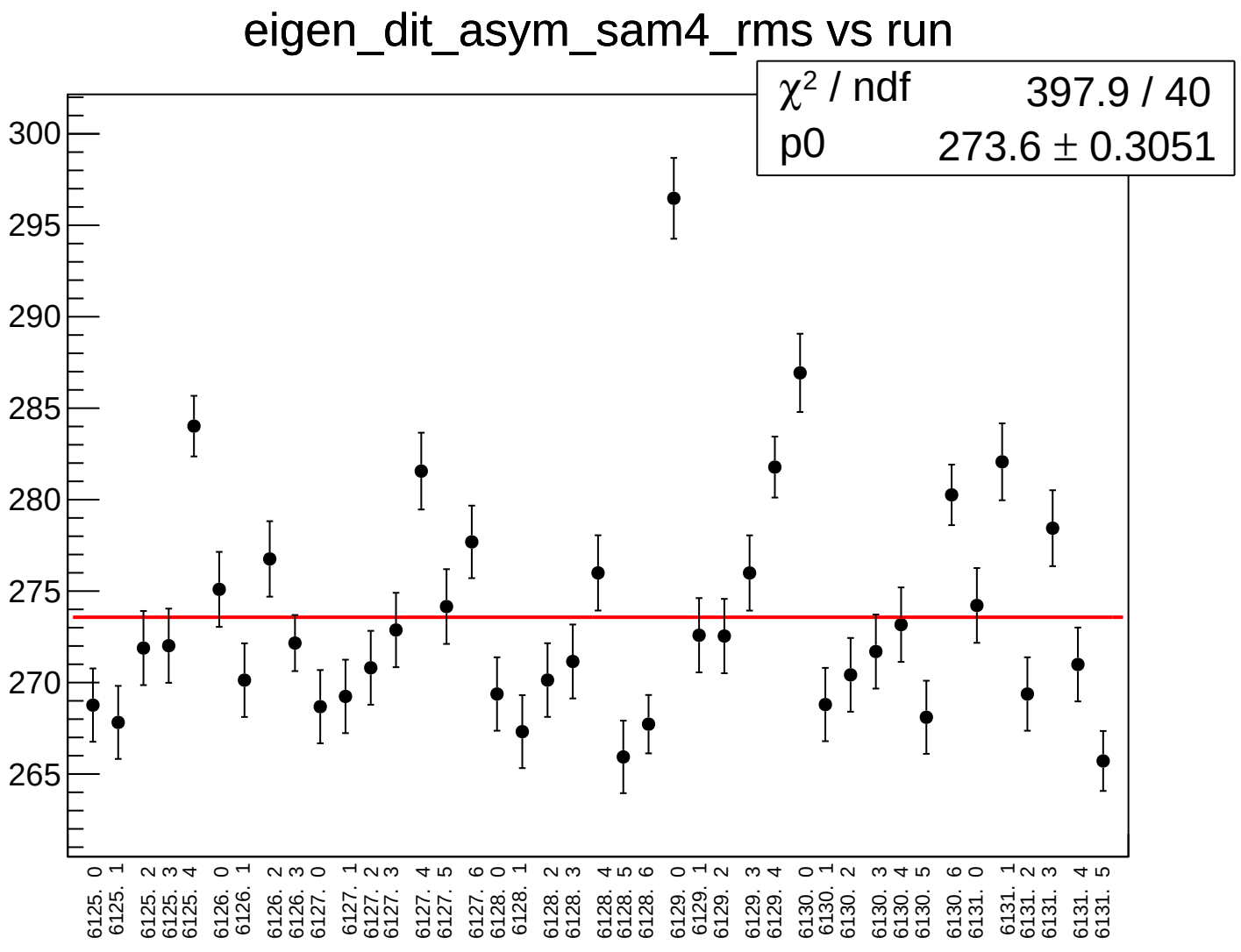
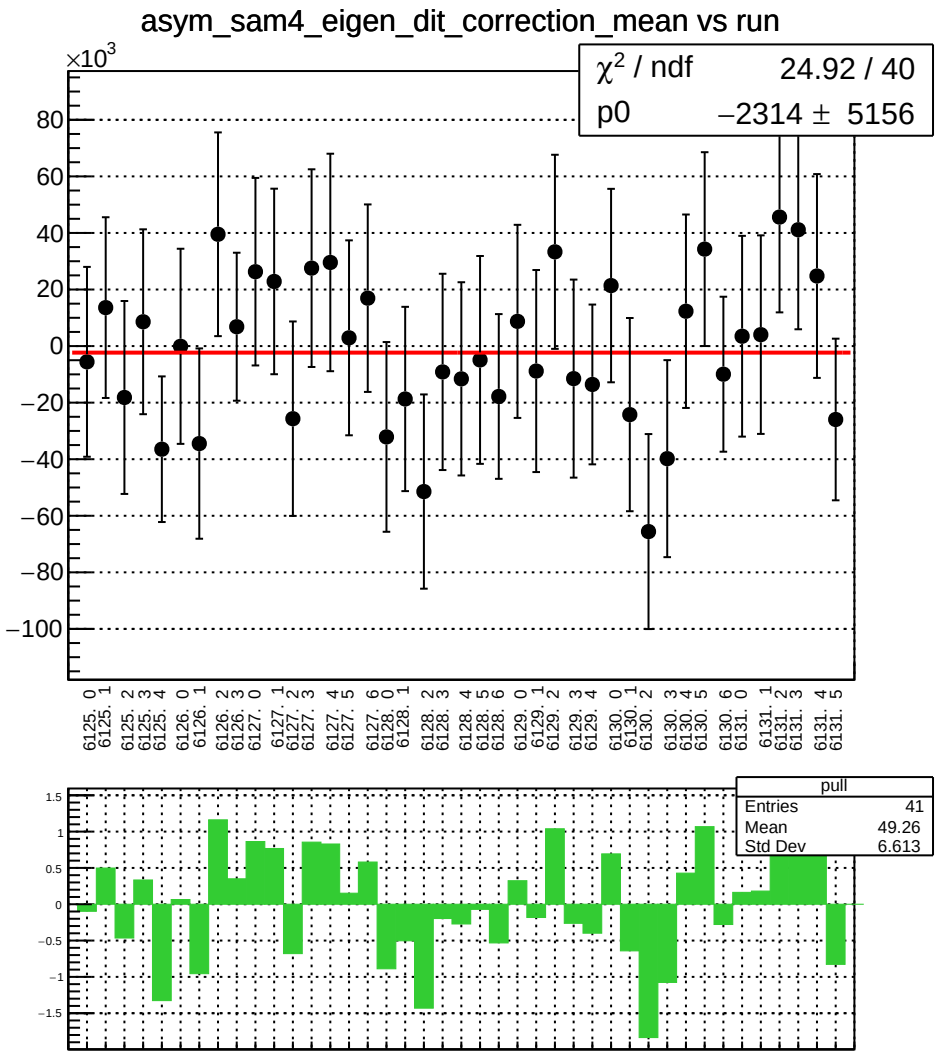
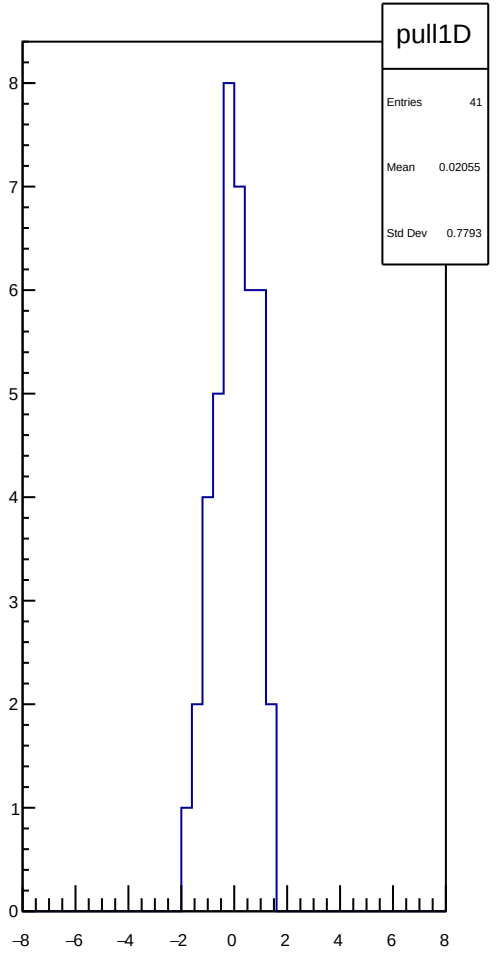
6131. 4
6131. 5

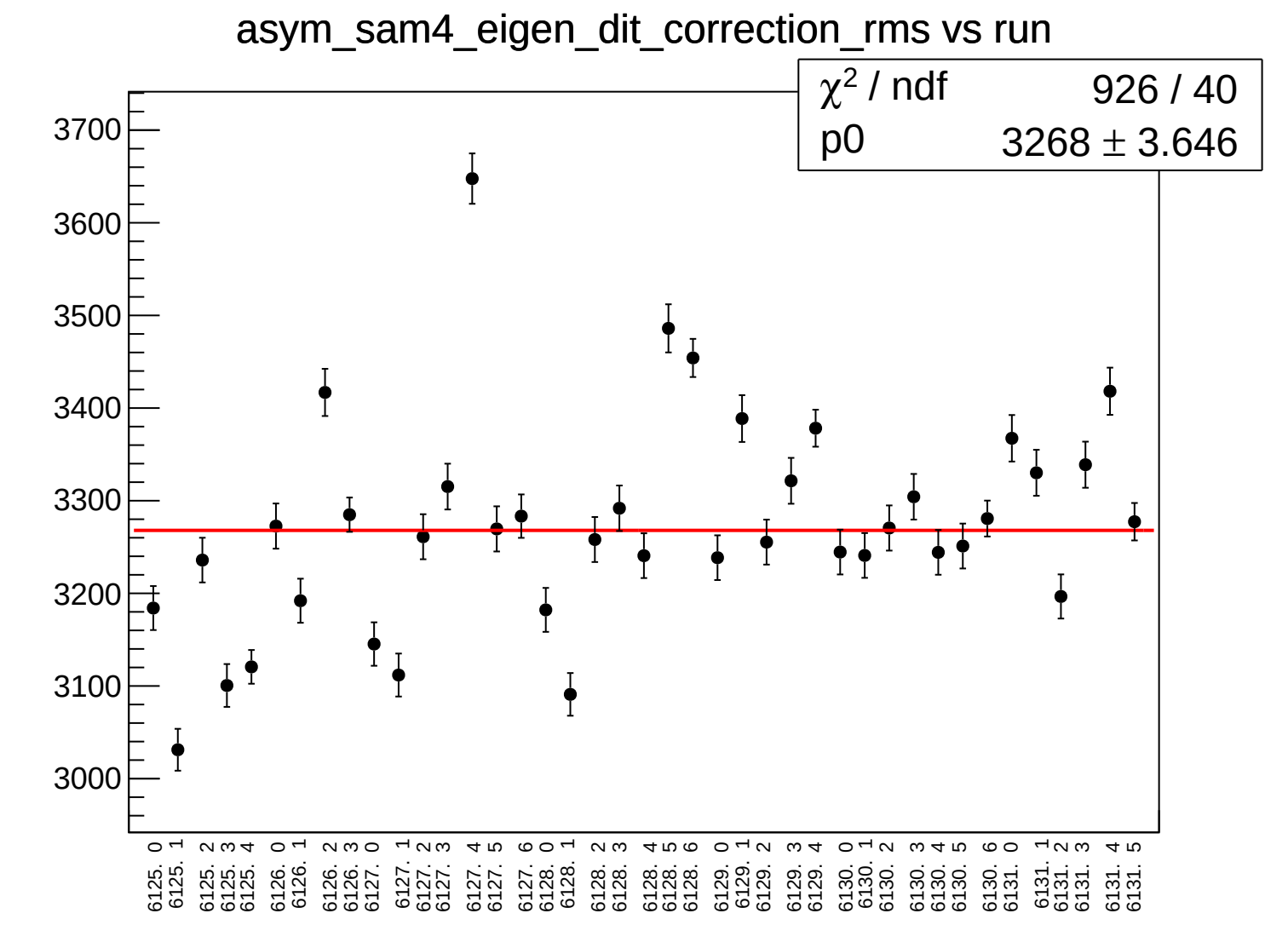

eigen_dit_asym_sam4_mean vs run
χ² / ndf 45.99 / 40
p0 193.9 ± 431.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 51.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

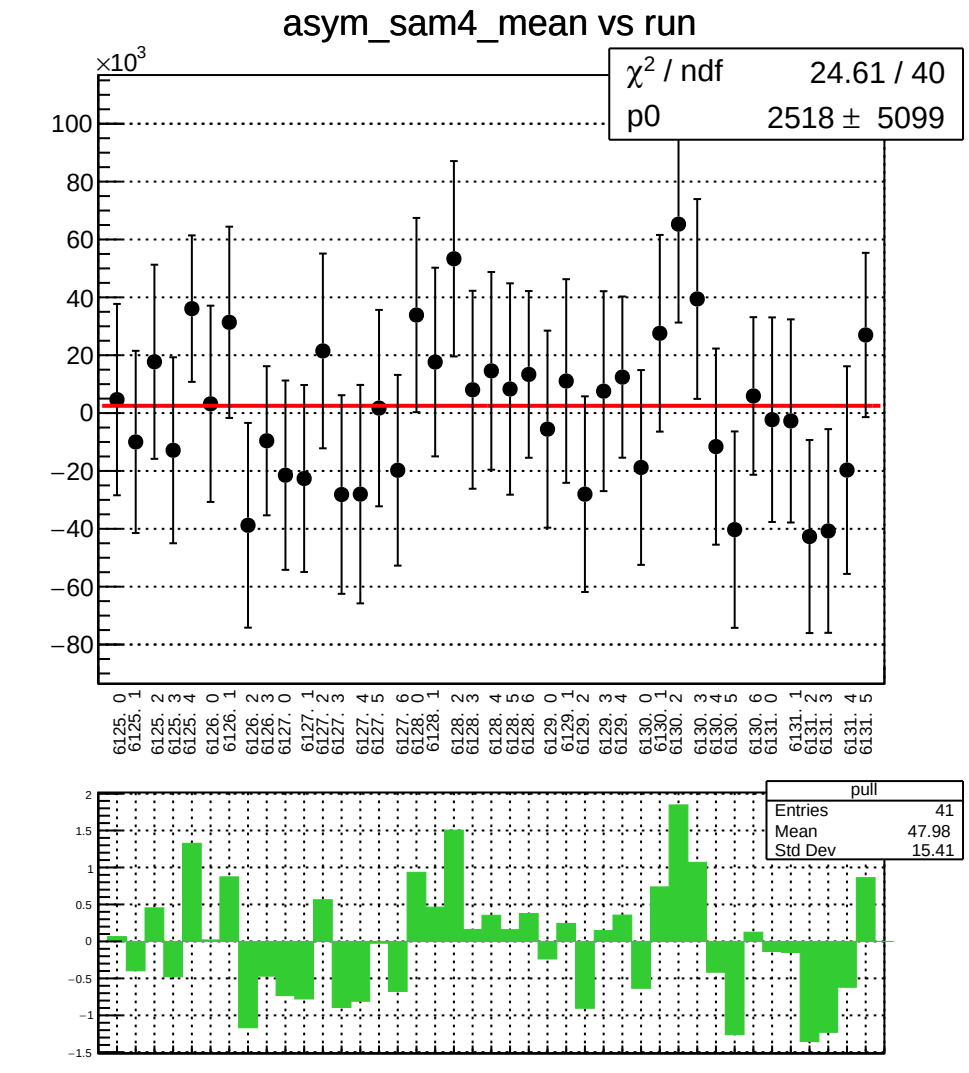

pull1D
Entries 41
Mean 0.04014
Std Dev 1.058
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

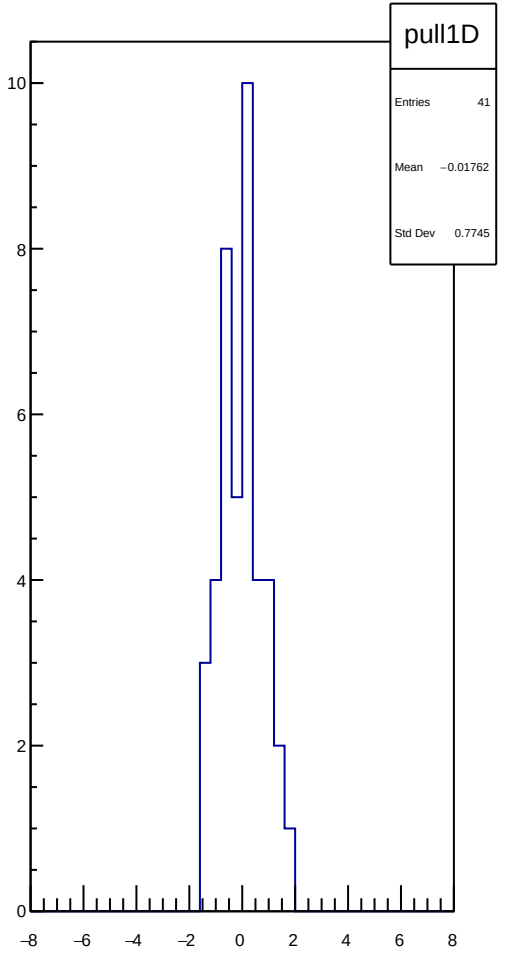

eigen_dit_asym_sam4_rms vs run
χ² / ndf 397.9 / 40
p0 273.6 ± 0.3051
300
295
290
285
280
275
270
265
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

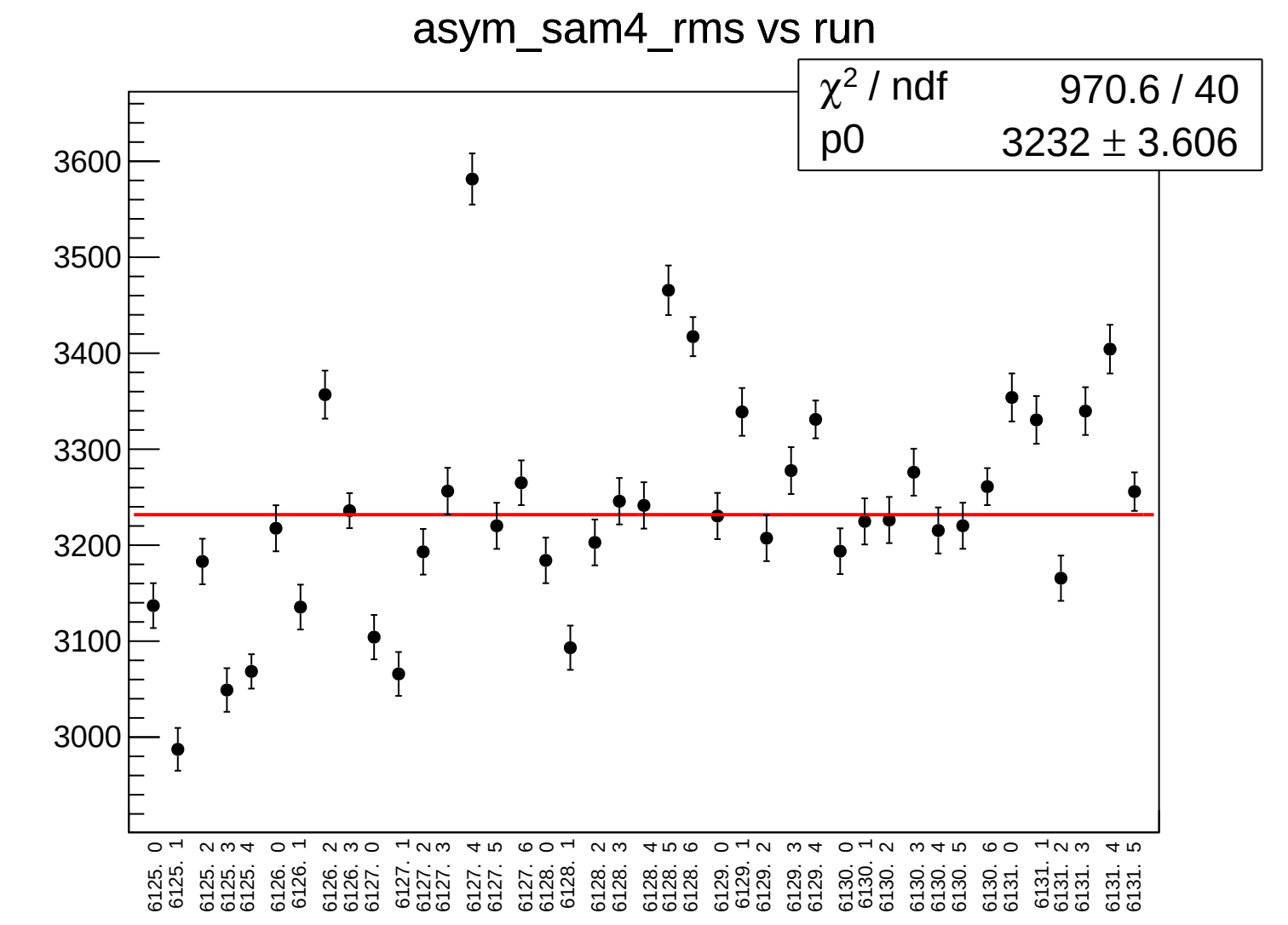

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 24.92 / 40
p0 −2314 ± 5156
pull
Entries 41
Mean 49.26
Std Dev 6.613

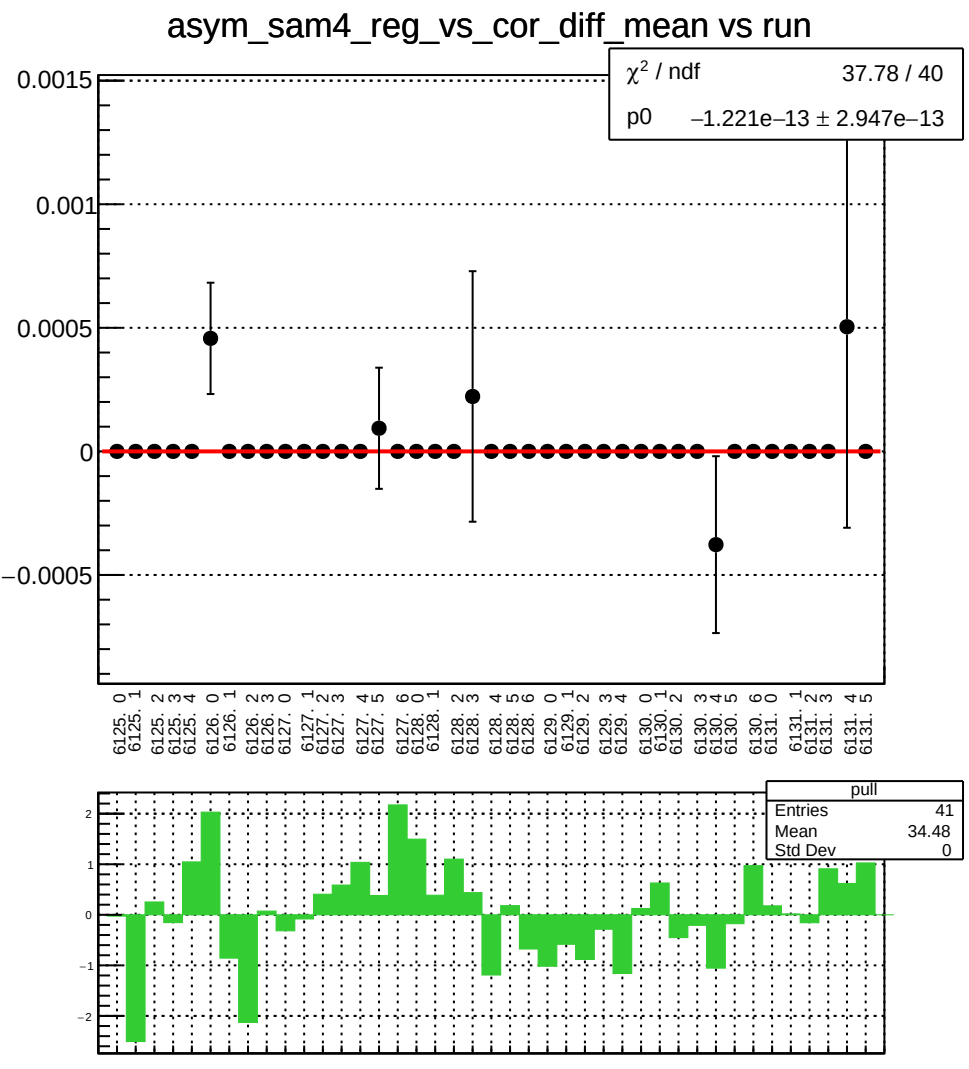

pull1D
Entries 41
Mean 0.02055
Std Dev 0.7793

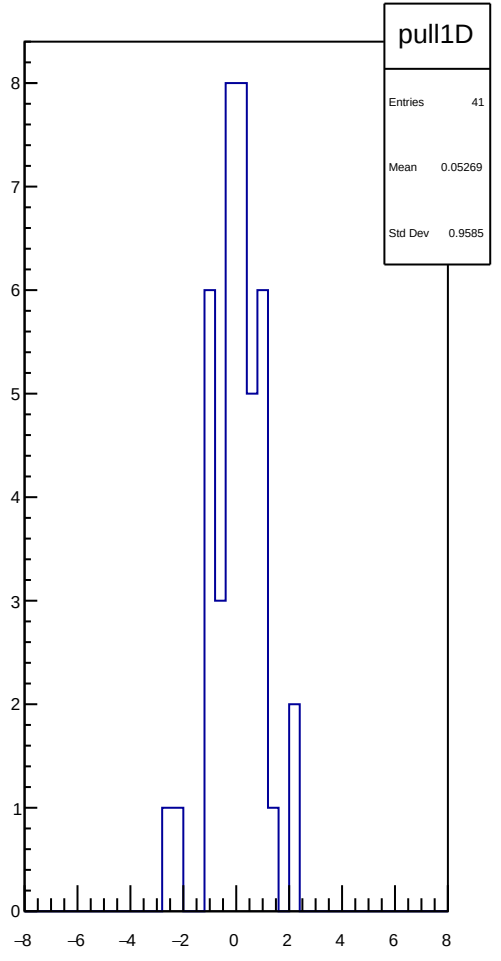

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 926 / 40
p0 3268 ± 3.646
3700
3600
3500
3400
3300
3200
3100
3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

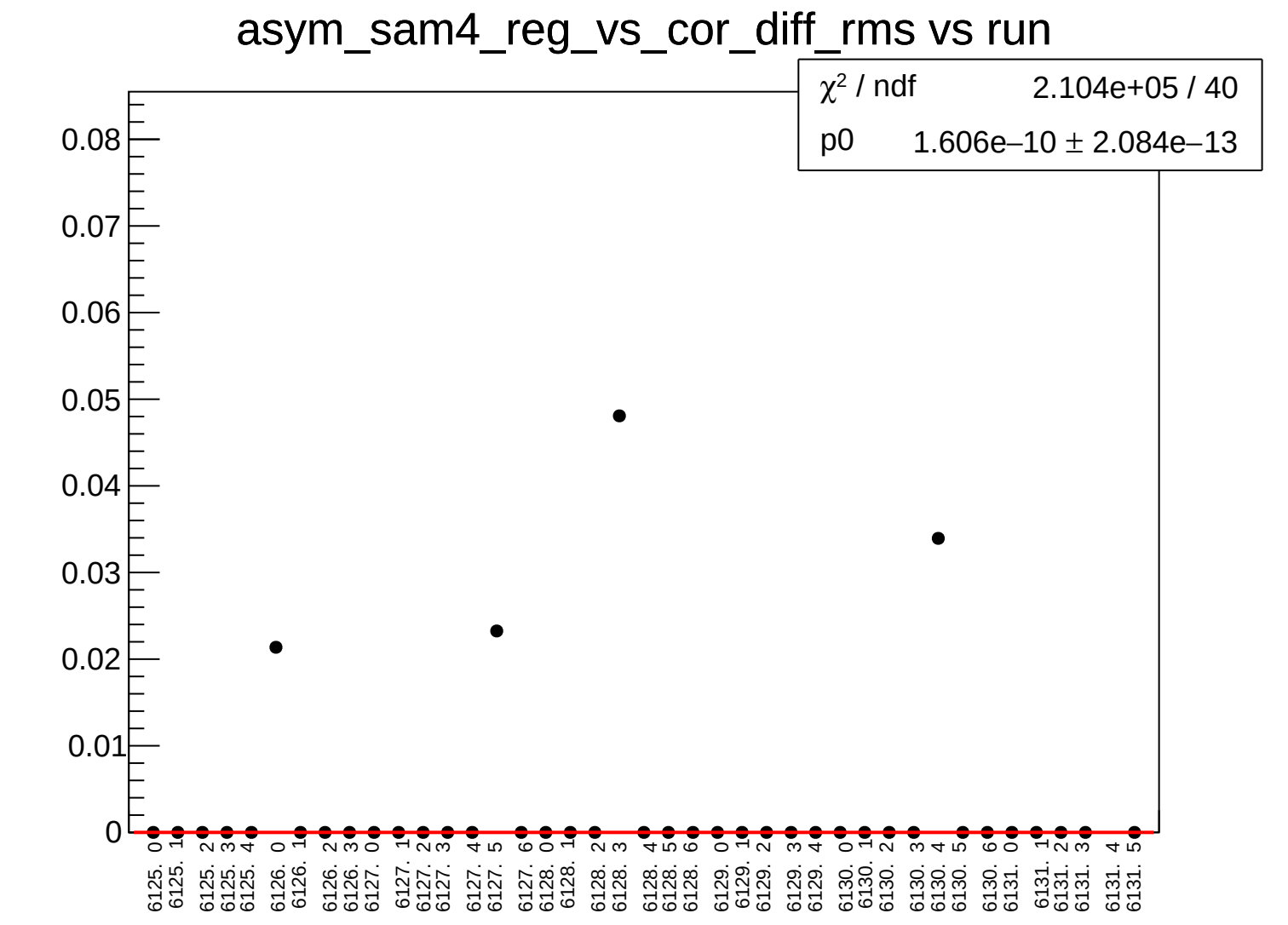

asym_sam4_mean vs run
×10^3
χ^2 / ndf 24.61 / 40
p0 2518 ± 5099
100
80
60
40
20
0
−20
−40
−60
−80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 47.98
Std Dev 15.41
2
1.5
1
0.5
0
−0.5
−1
−1.5

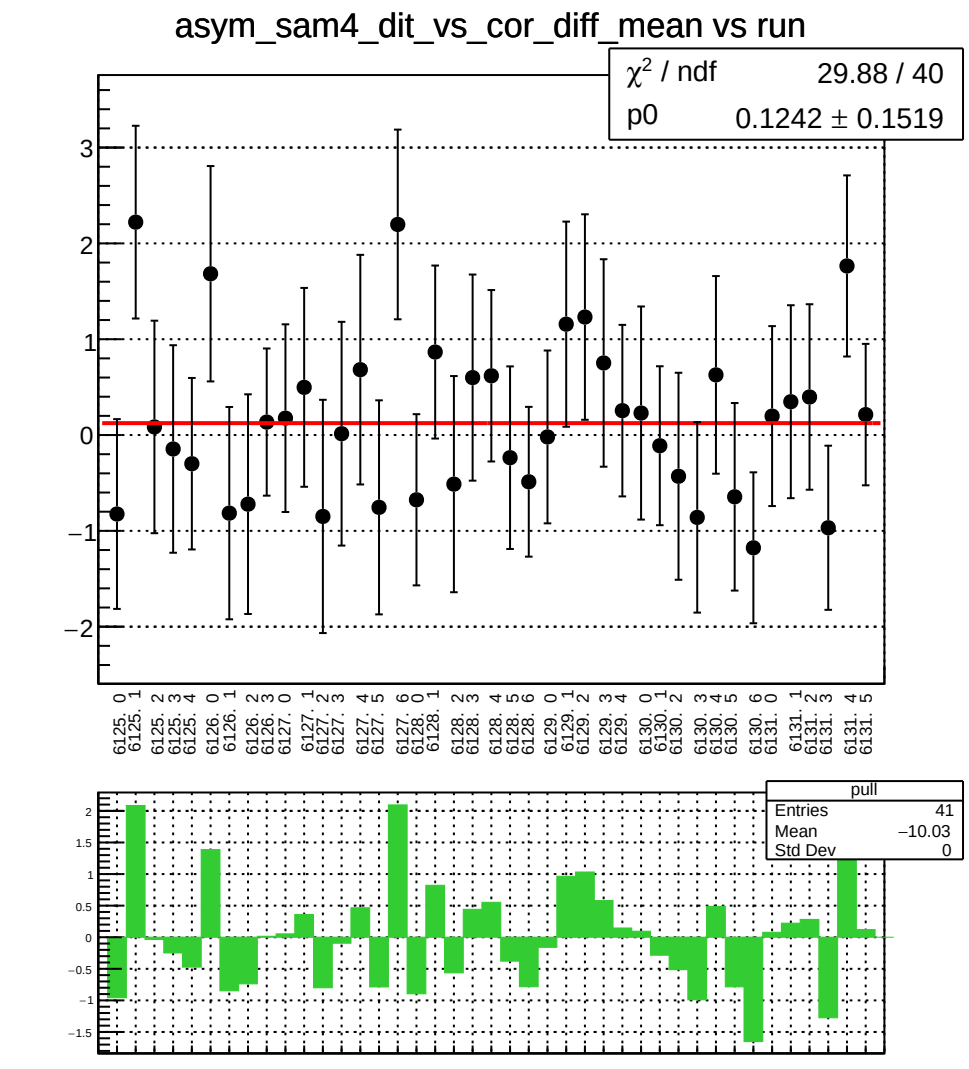

pull1D
Entries 41
Mean −0.01762
Std Dev 0.7745
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

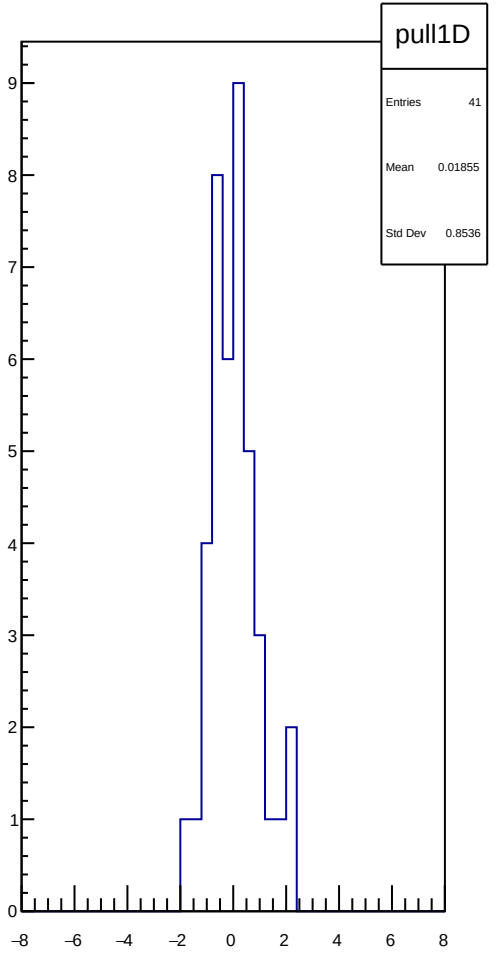

asym_sam4_rms vs run
χ² / ndf 970.6 / 40
p0 3232 ± 3.606
3600
3500
3400
3300
3200
3100
3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

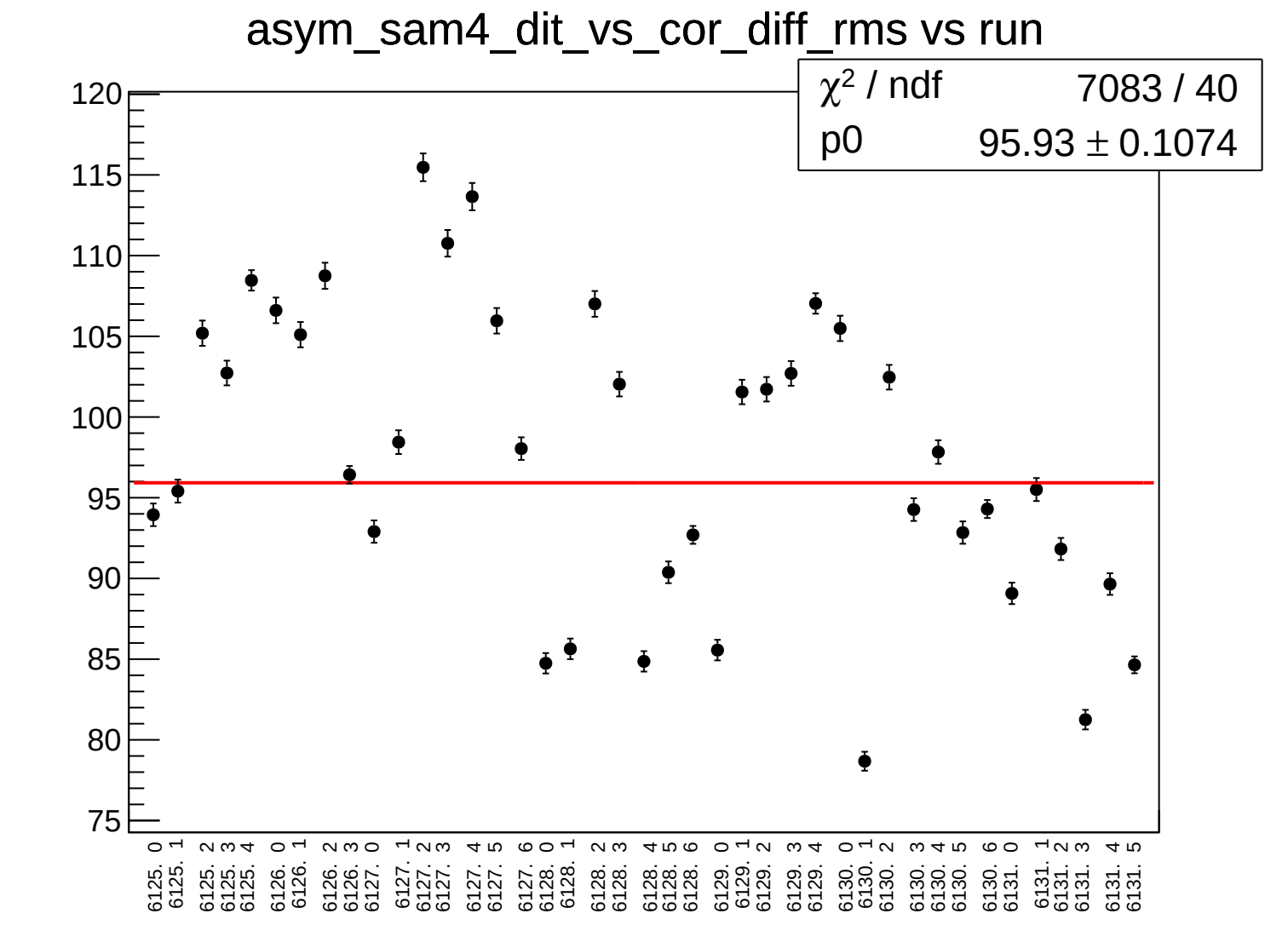

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 37.78 / 40
p0 −1.221e−13 ± 2.947e−13
0.0015
0.001
0.0005
0
−0.0005
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 34.48
Std Dev 0
2
1
0
−1
−2

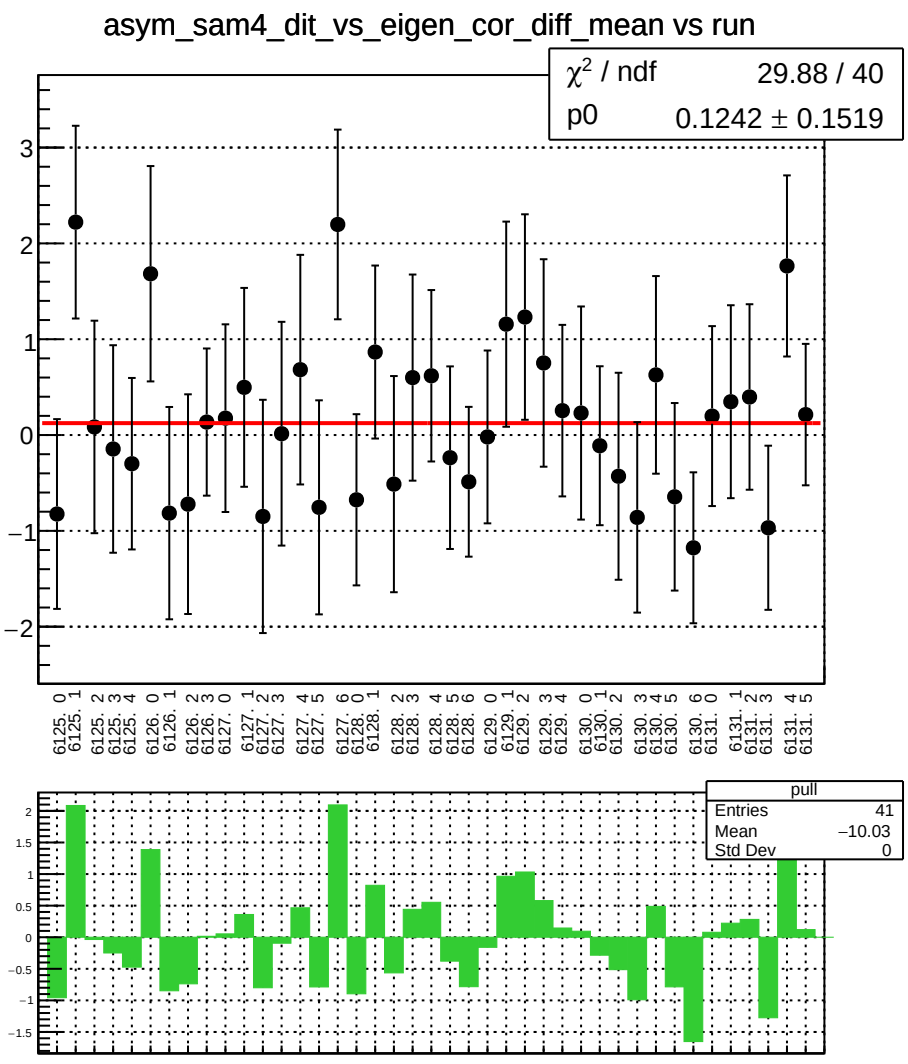

pull1D
Entries 41
Mean 0.05269
Std Dev 0.9585
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

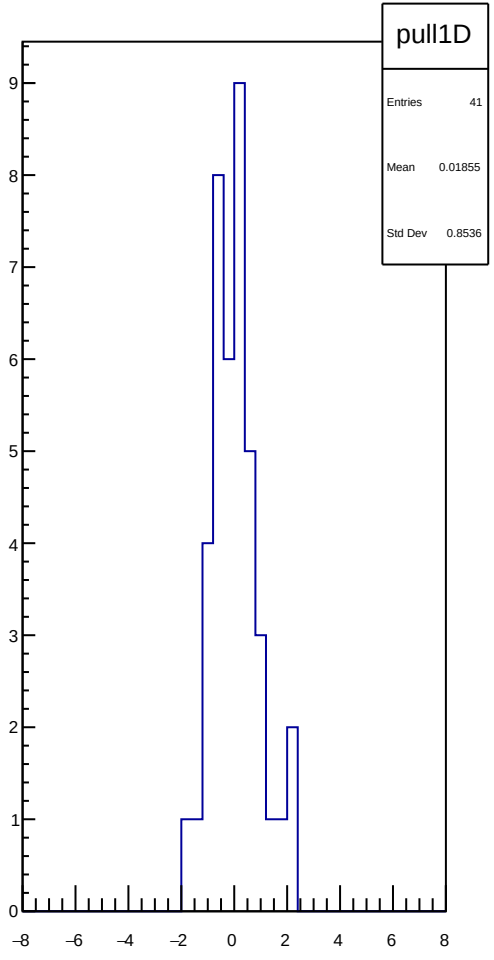

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 2.104e+05 / 40
p0 1.606e−10 ± 2.084e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

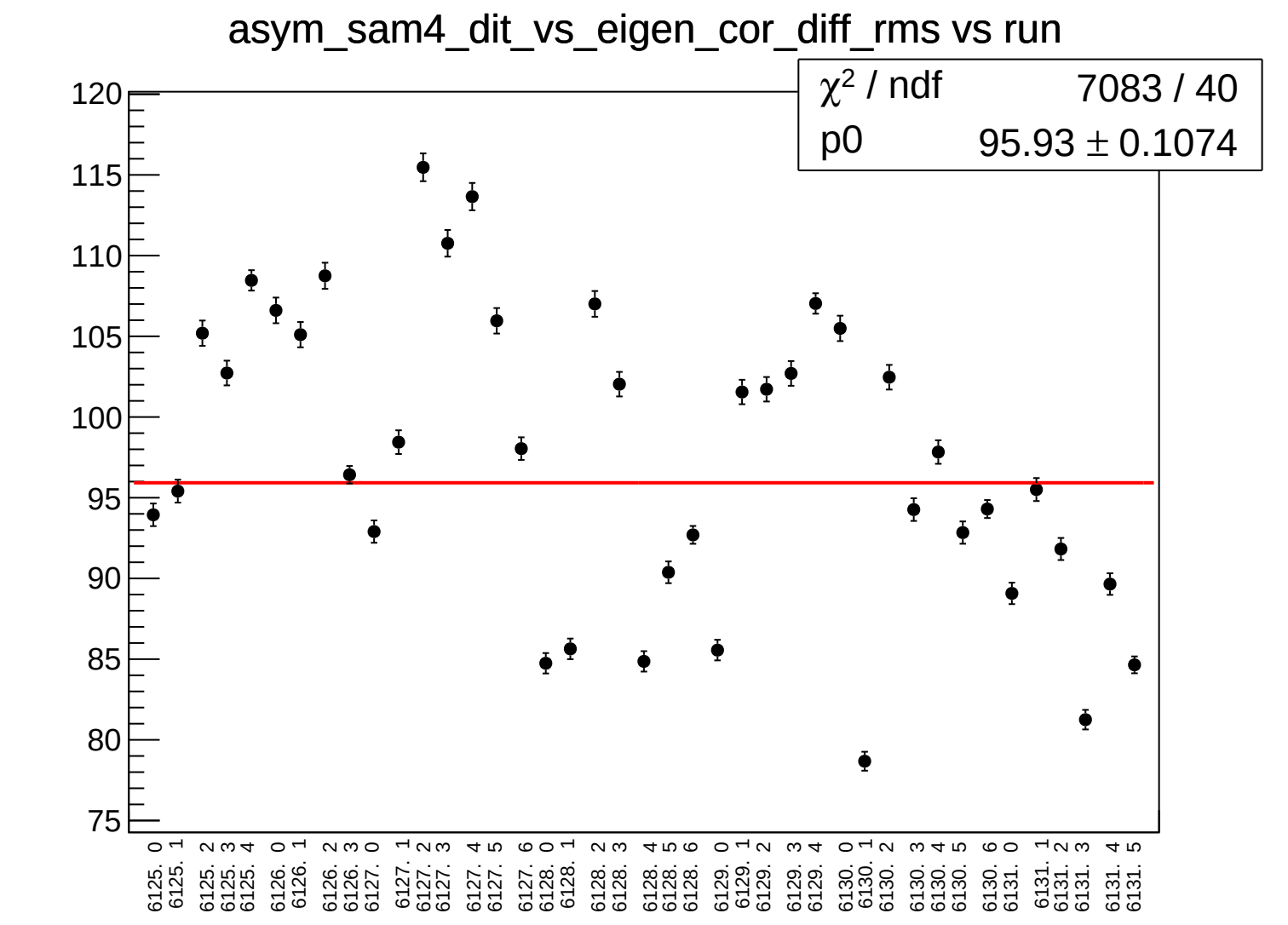

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 29.88 / 40
p0 0.1242 ± 0.1519
pull
Entries 41
Mean −10.03
Std Dev 0

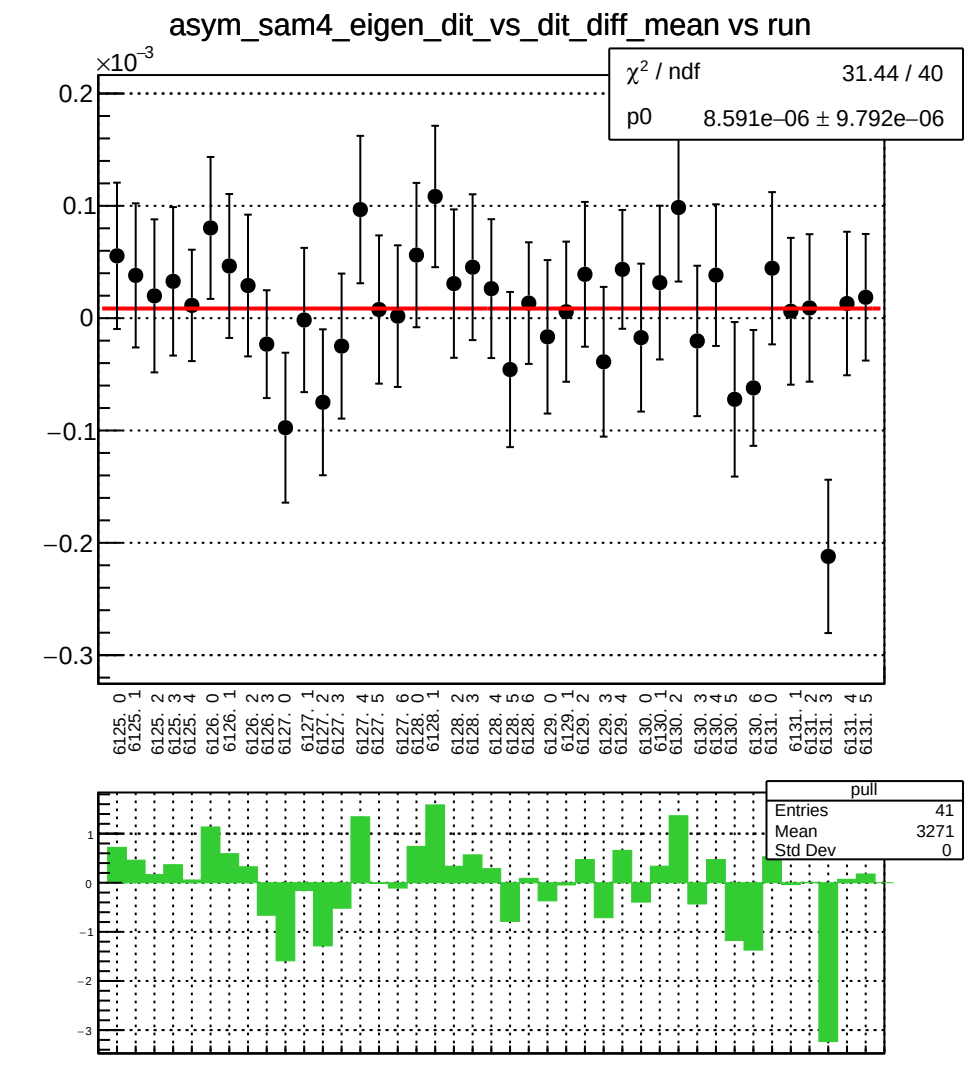

pull1D
Entries 41
Mean 0.01855
Std Dev 0.8536

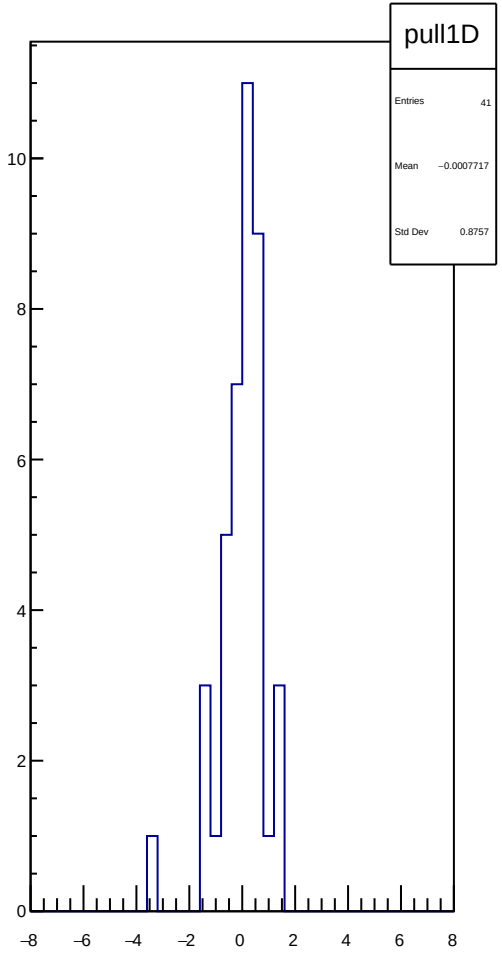

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 7083 / 40
p0 95.93 ± 0.1074
120
115
110
105
100
95
90
85
80
75
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

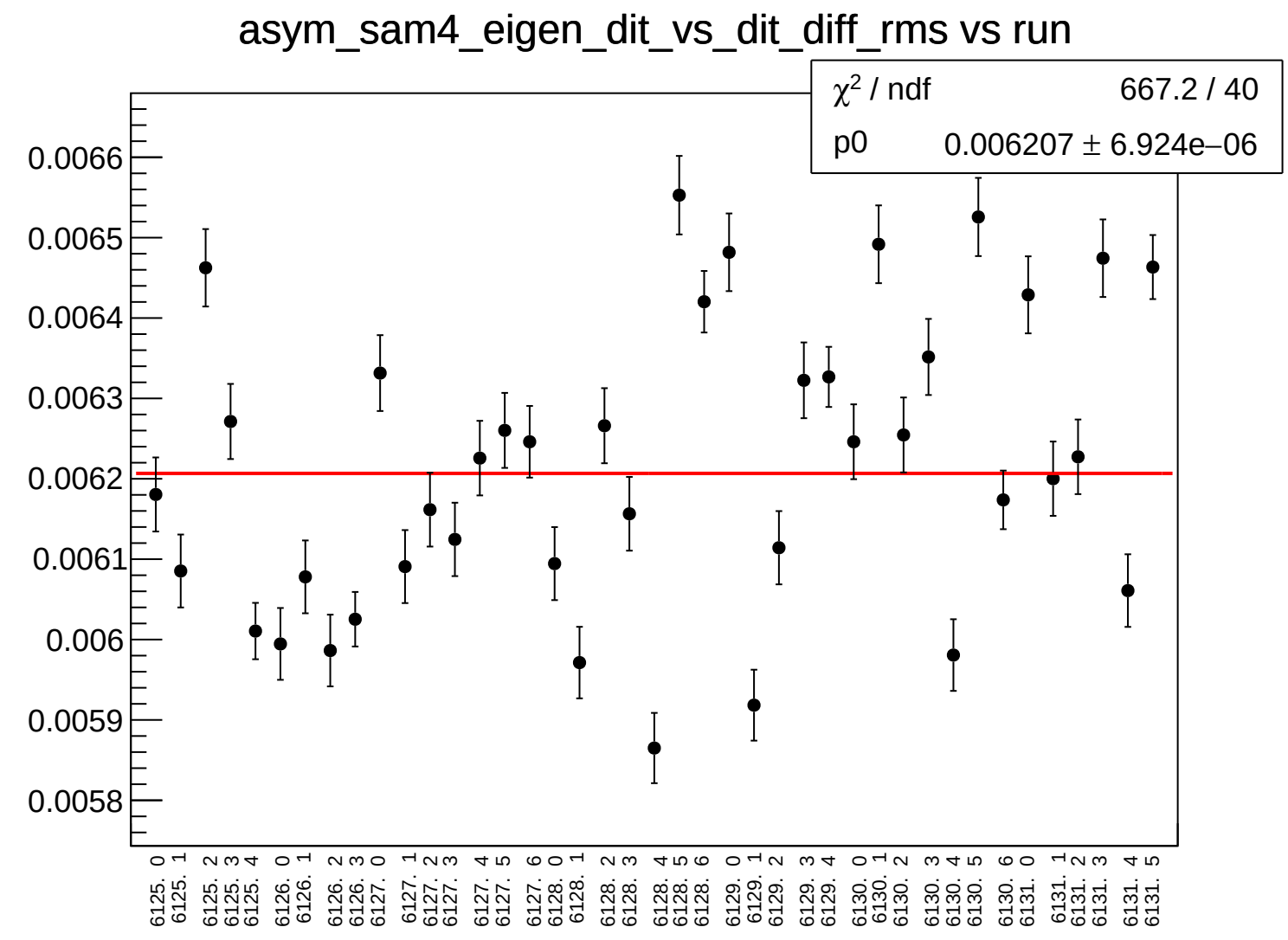

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.88 / 40
p0 0.1242 ± 0.1519
pull
Entries 41
Mean −10.03
Std Dev 0

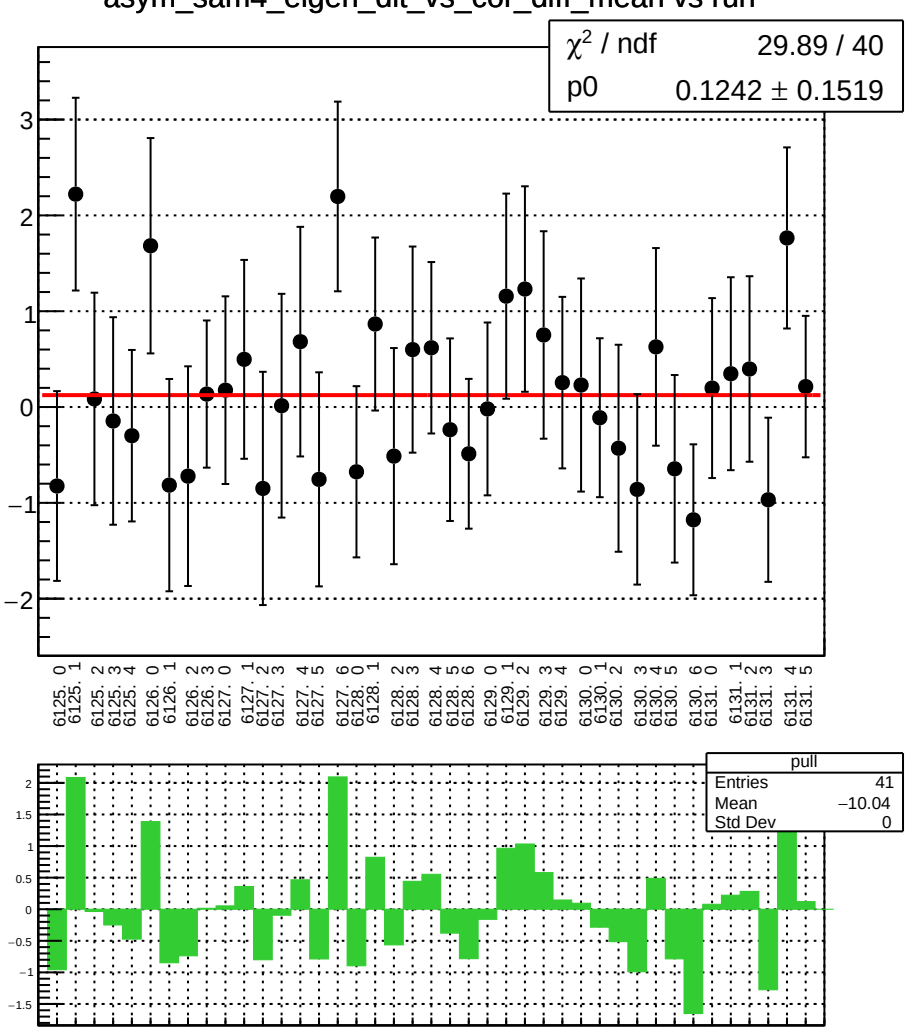

pull1D
Entries 41
Mean 0.01855
Std Dev 0.8536

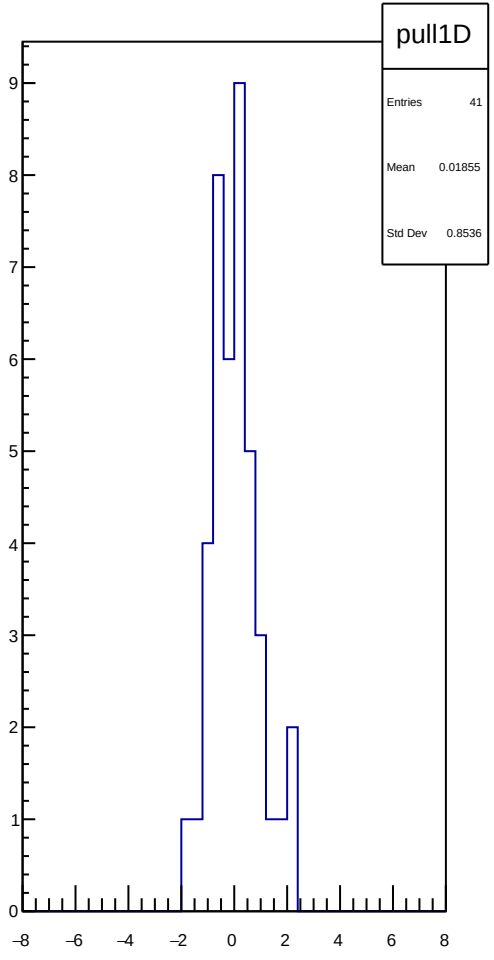

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7083 / 40
p0 95.93 ± 0.1074
120
115
110
105
100
95
90
85
80
75
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

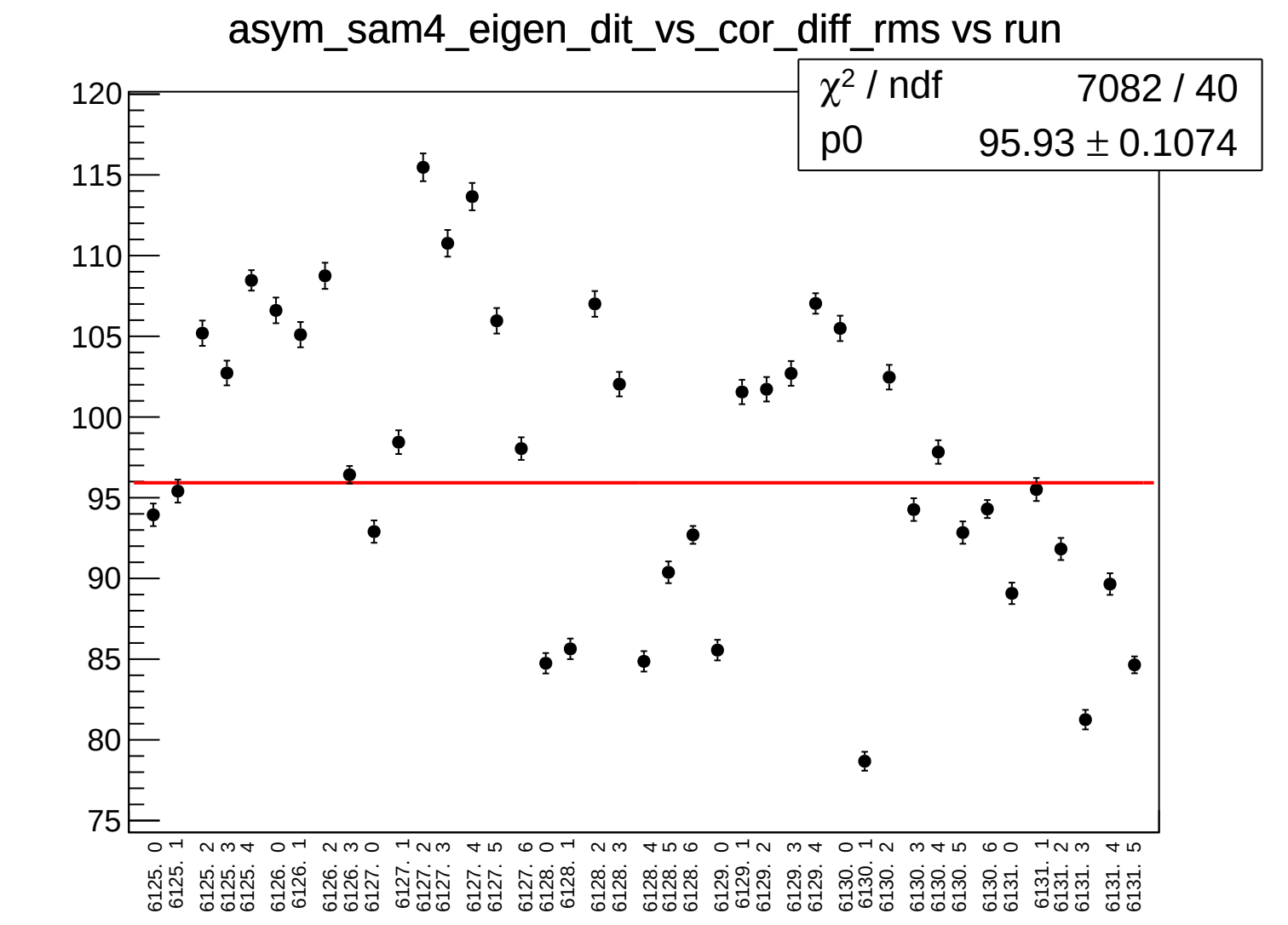

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 31.44 / 40
p0 8.591e−06 ± 9.792e−06
0.2
0.1
0
−0.1
−0.2
−0.3
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 3271
Std Dev 0
1
0
−1
−2
−3

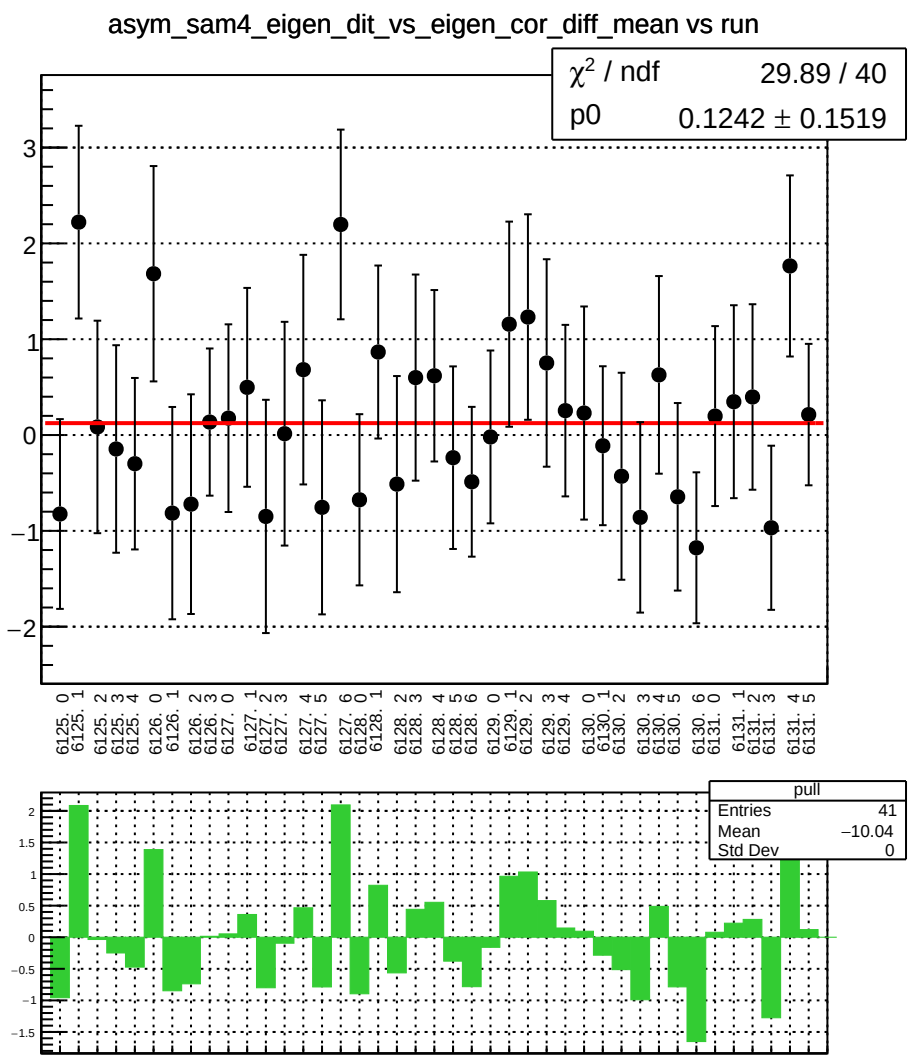

pull1D
Entries 41
Mean −0.0007717
Std Dev 0.8757
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

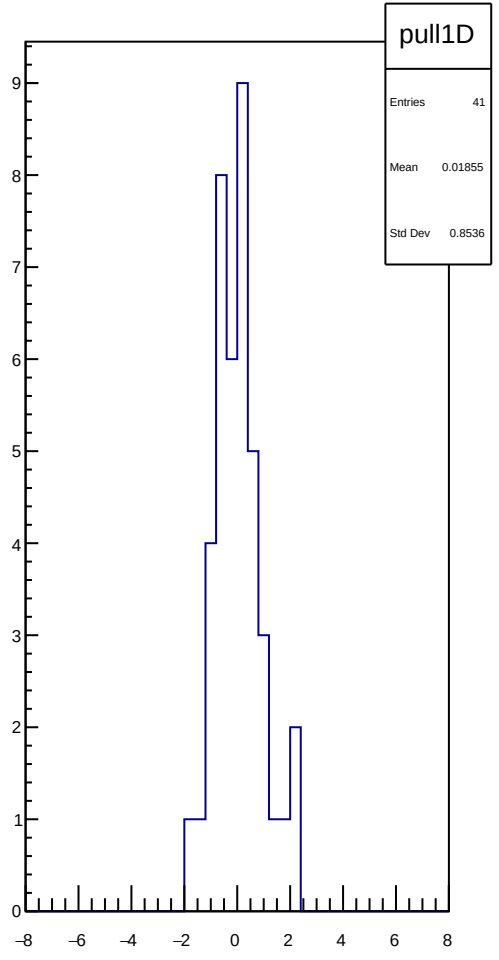

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 667.2 / 40
p0 0.006207 ± 6.924e−06
0.0066
0.0065
0.0064
0.0063
0.0062
0.0061
0.006
0.0059
0.0058
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

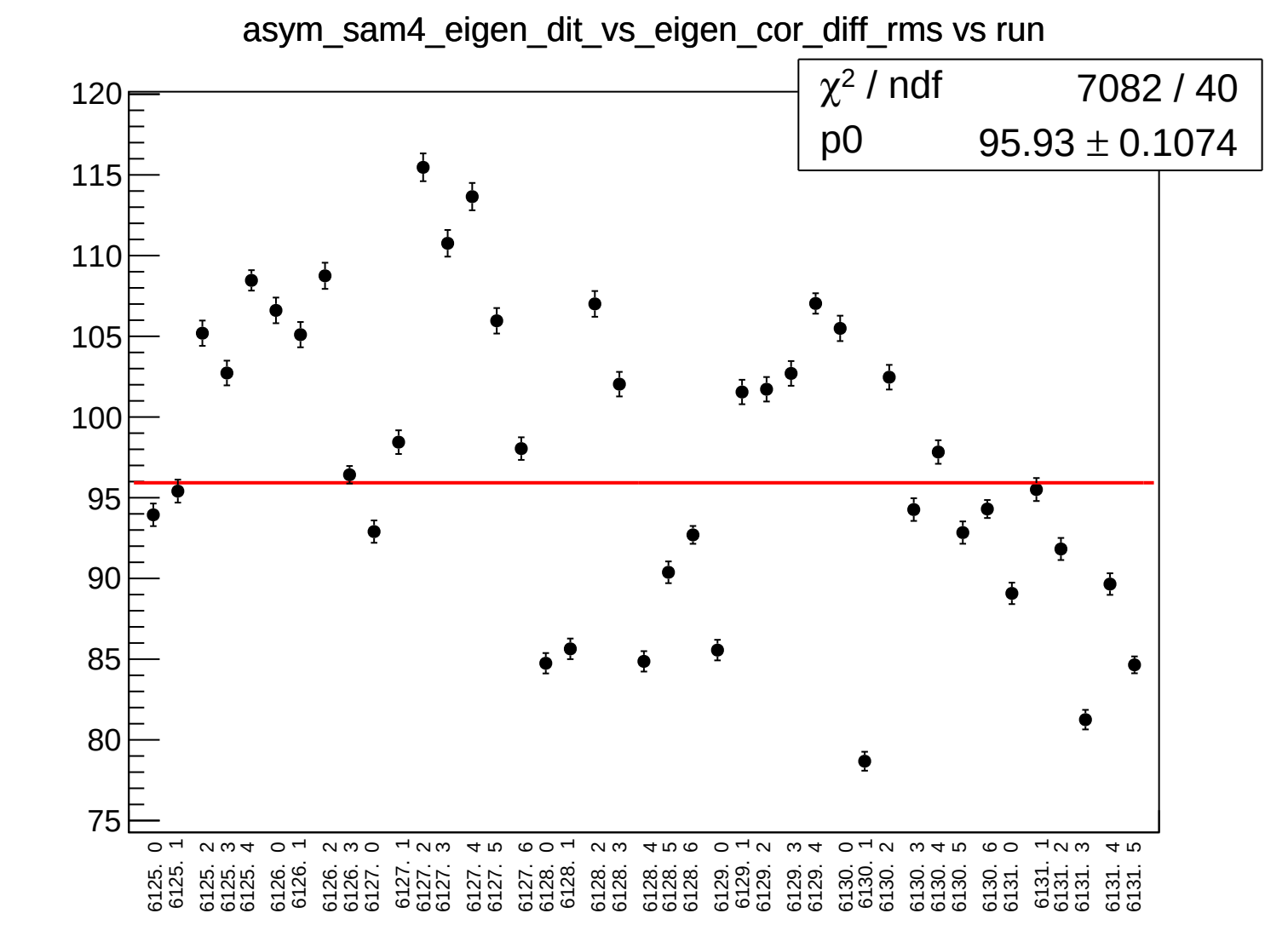

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 29.89 / 40
p0 0.1242 ± 0.1519
pull
Entries 41
Mean −10.04
Std Dev 0

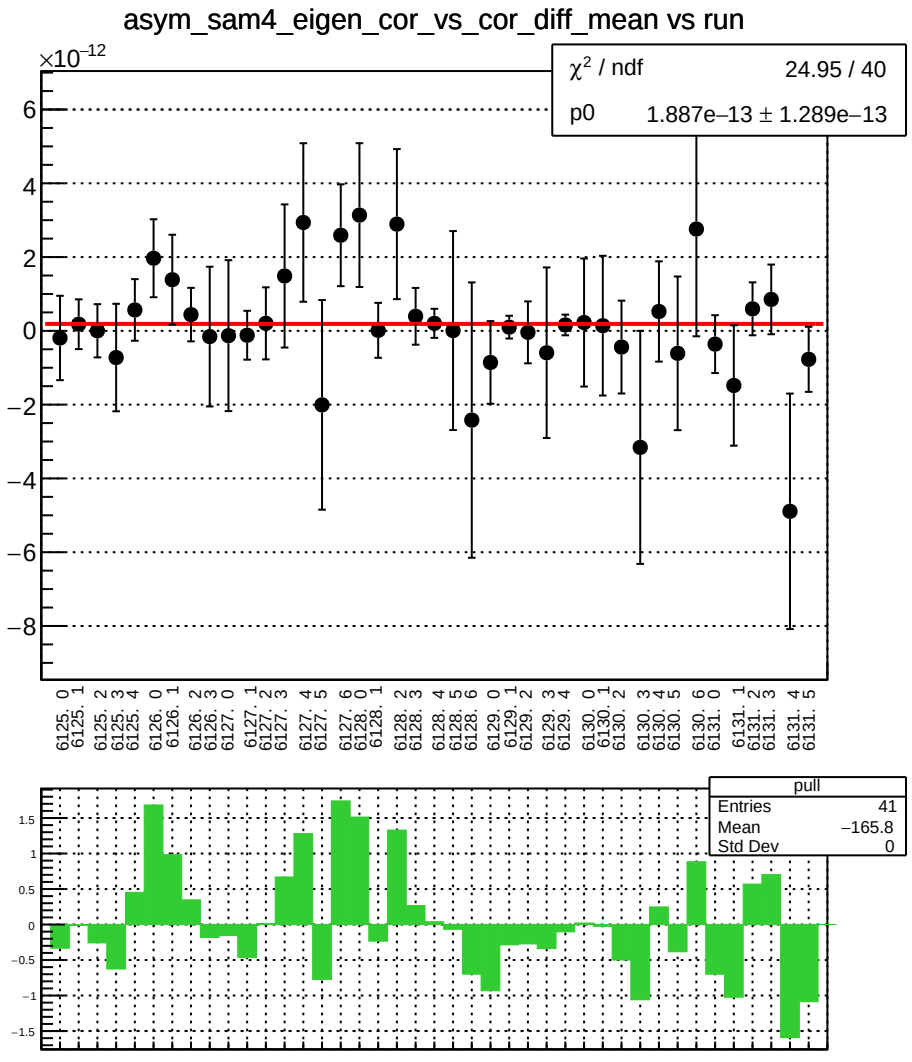

pull1D
Entries 41
Mean 0.01855
Std Dev 0.8536

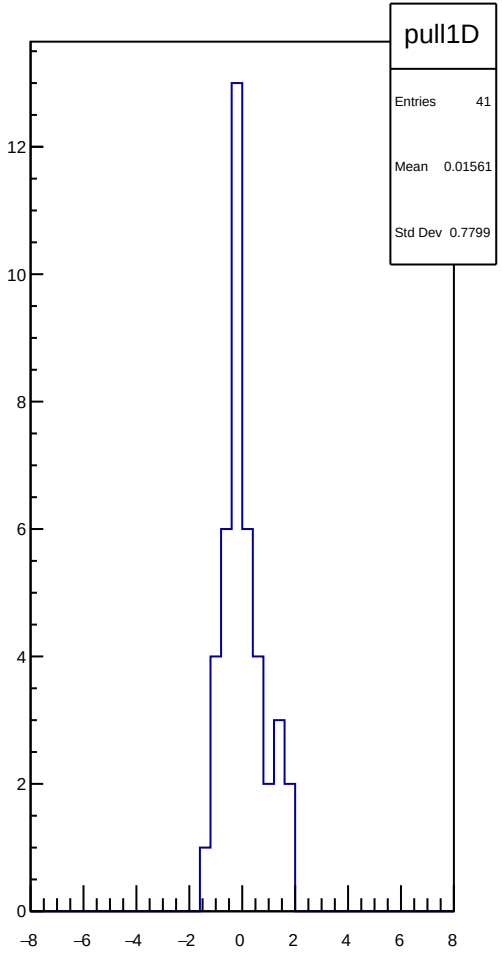

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7082 / 40
p0 95.93 ± 0.1074
120
115
110
105
100
95
90
85
80
75
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

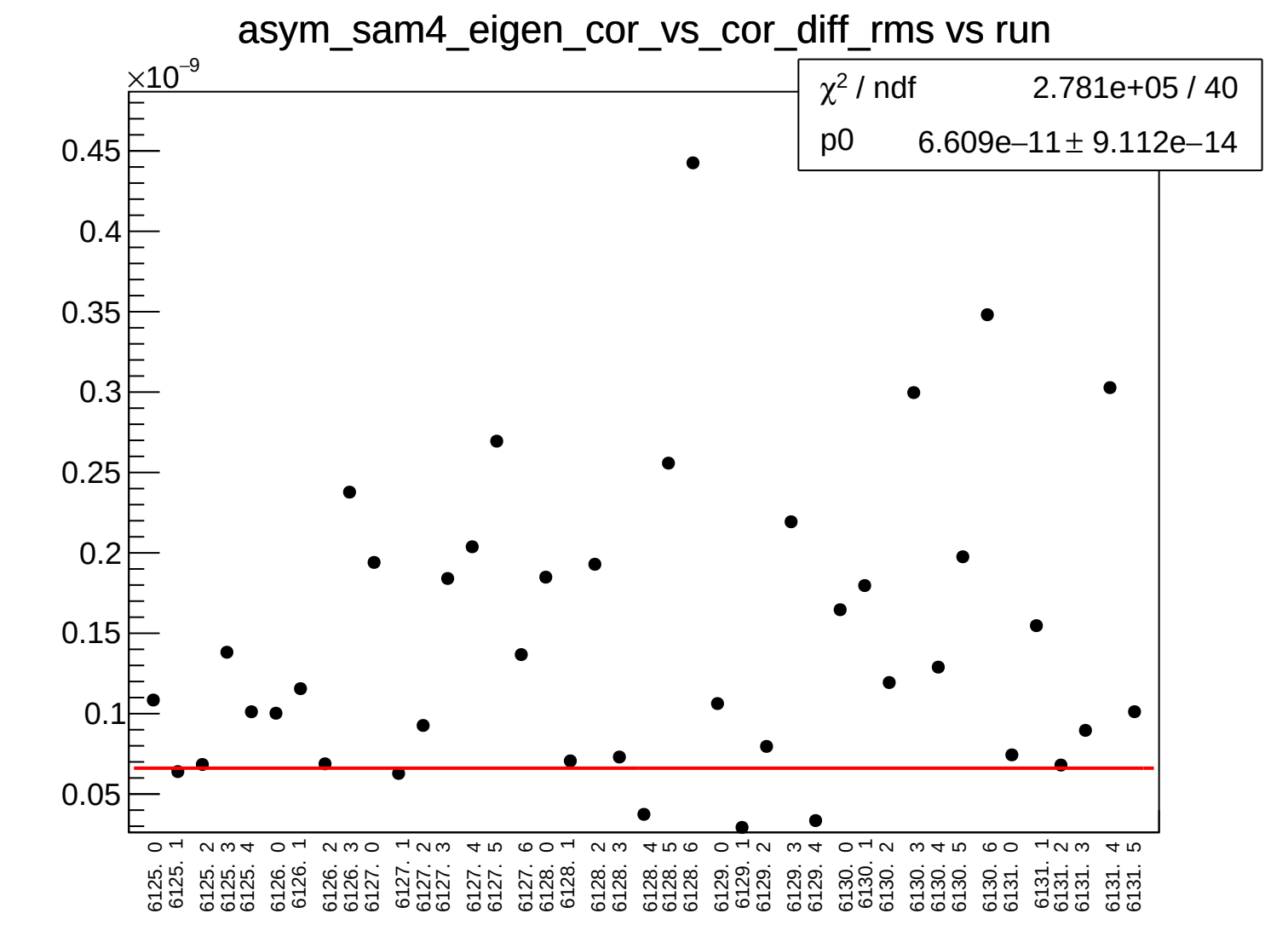

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.89 / 40
p0 0.1242 ± 0.1519
pull
Entries 41
Mean −10.04
Std Dev 0

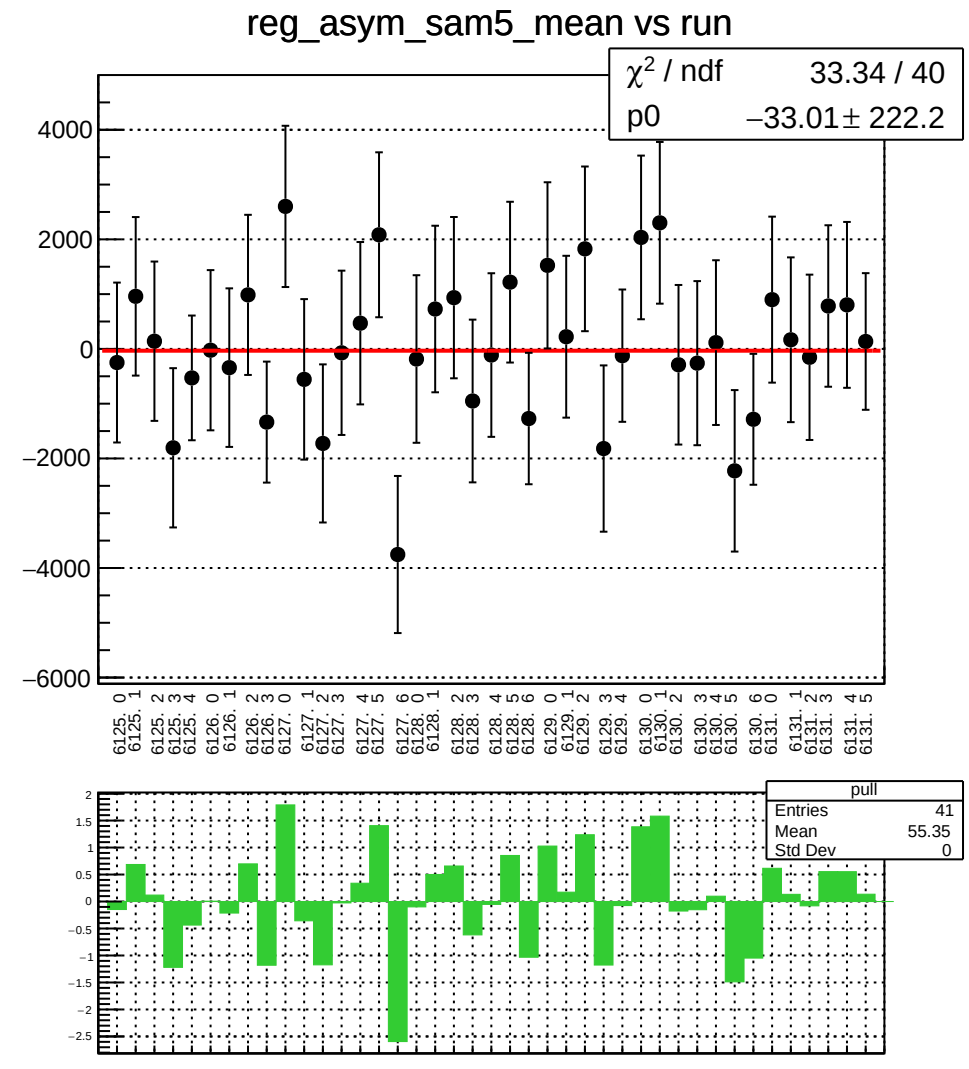

pull1D
Entries 41
Mean 0.01855
Std Dev 0.8536

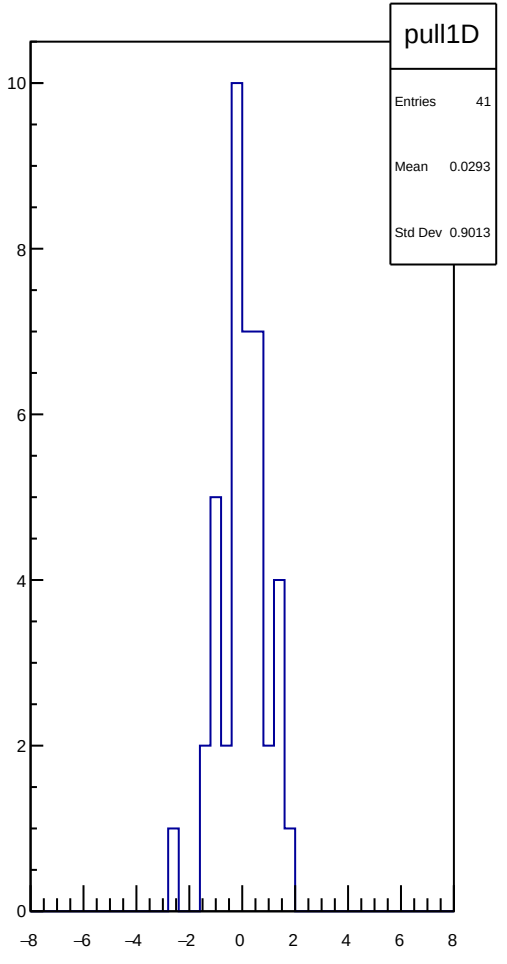

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7082 / 40
p0 95.93 ± 0.1074
120
115
110
105
100
95
90
85
80
75
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

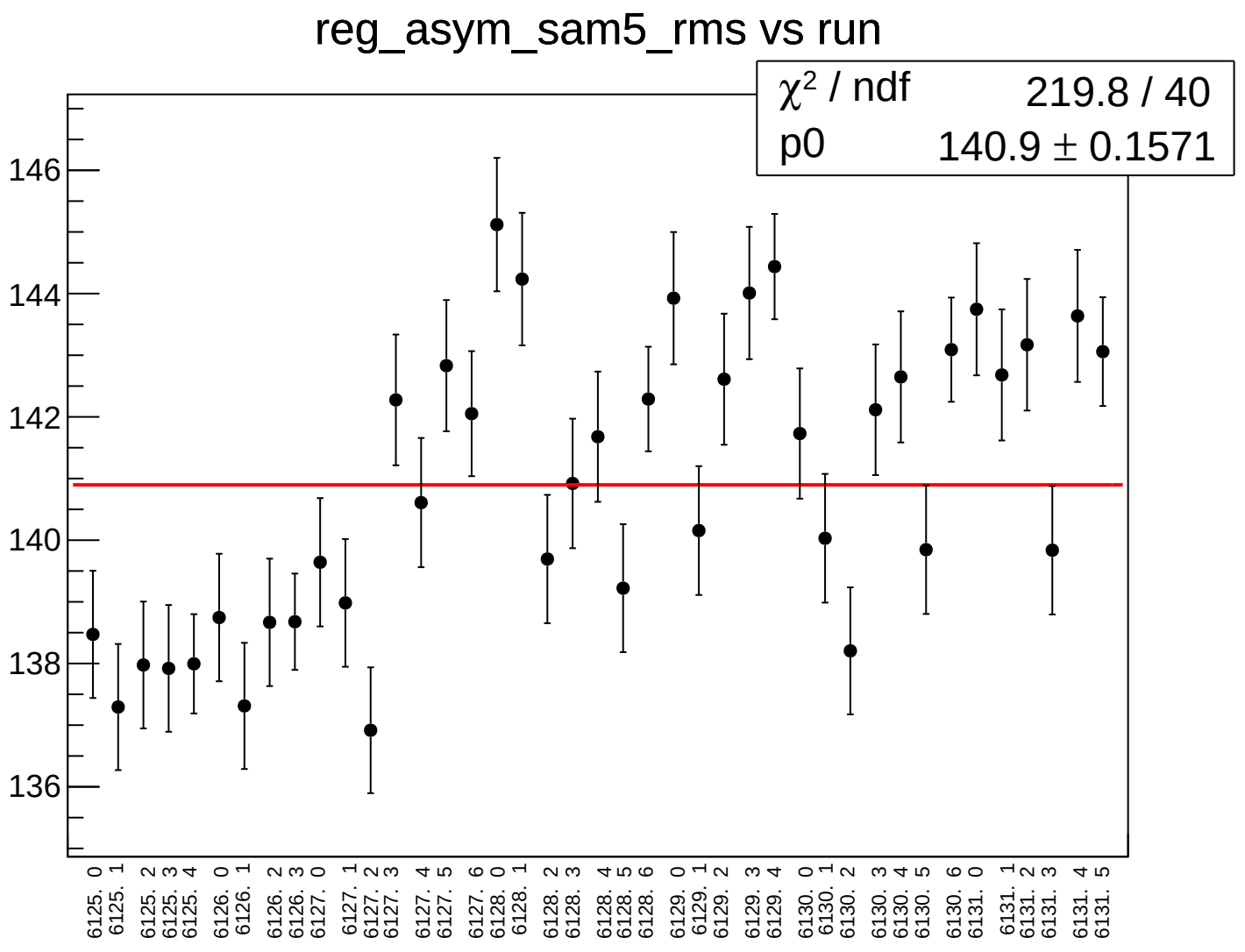

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 24.95 / 40
p0 1.887e−13 ± 1.289e−13
6
4
2
0
−2
−4
−6
−8
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −165.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

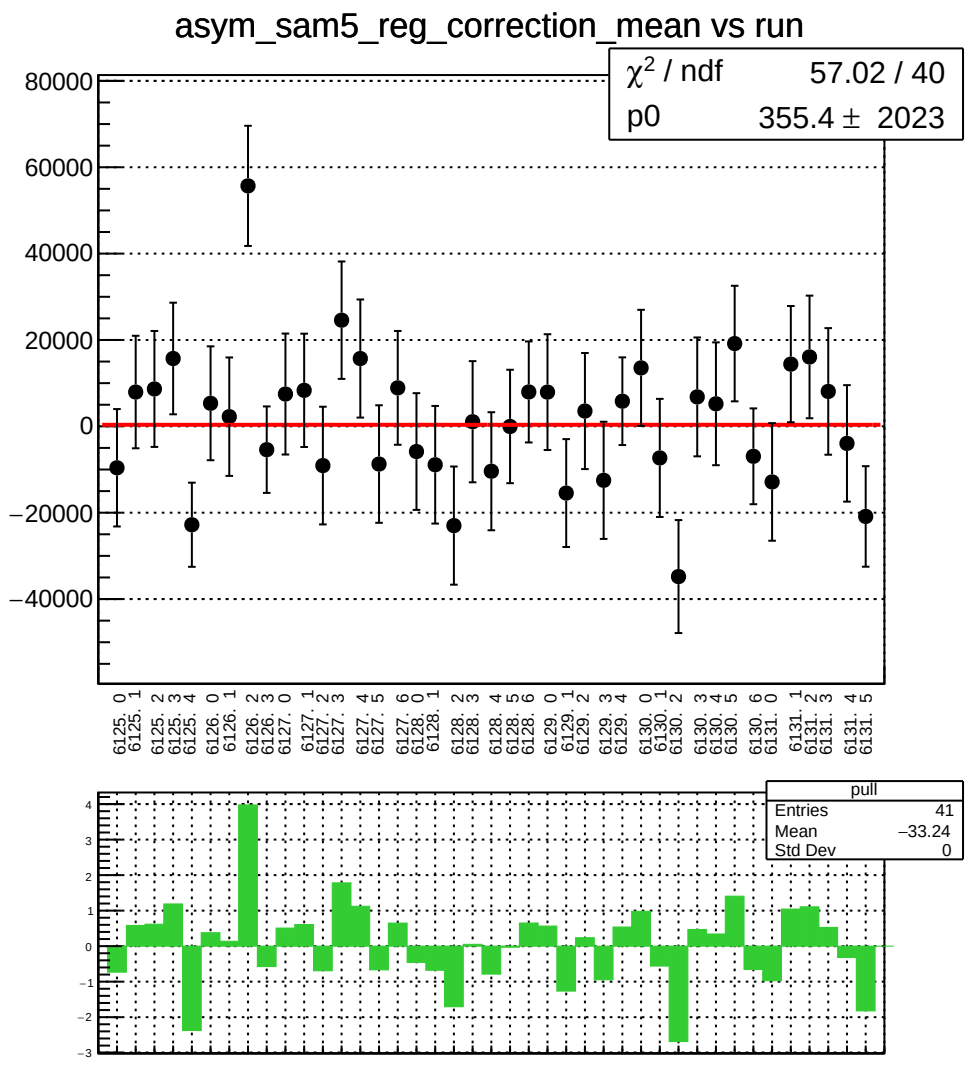

pull1D
Entries 41
Mean 0.01561
Std Dev 0.7799
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

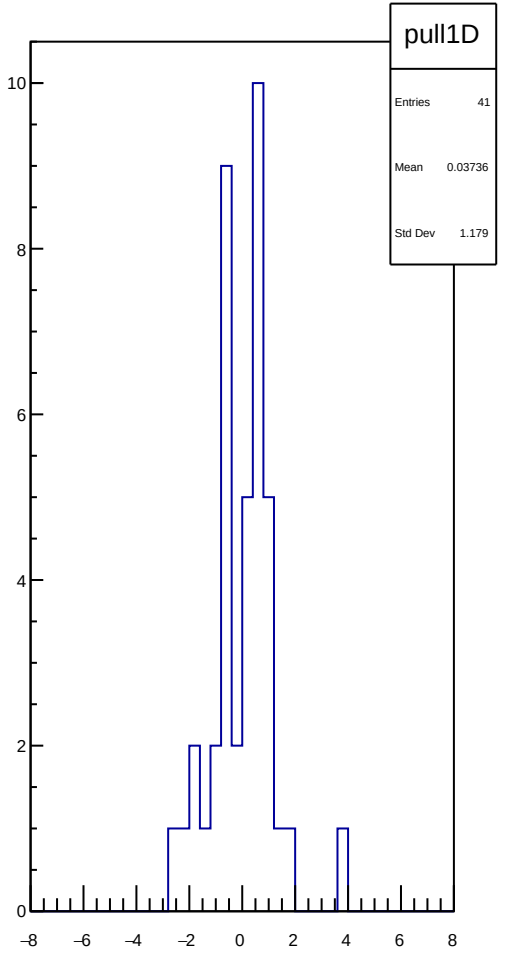

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.781e+05 / 40
p0 6.609e−11 ± 9.112e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


reg_asym_sam5_mean vs run
χ² / ndf 33.34 / 40
p0 −33.01 ± 222.2
4000
2000
0
−2000
−4000
−6000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 55.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 41
Mean 0.0293
Std Dev 0.9013
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam5_rms vs run
χ² / ndf 219.8 / 40
p0 140.9 ± 0.1571
146
144
142
140
138
136
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam5_reg_correction_mean vs run
χ² / ndf 57.02 / 40
p0 355.4 ± 2023
80000
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −33.24
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean 0.03736
Std Dev 1.179
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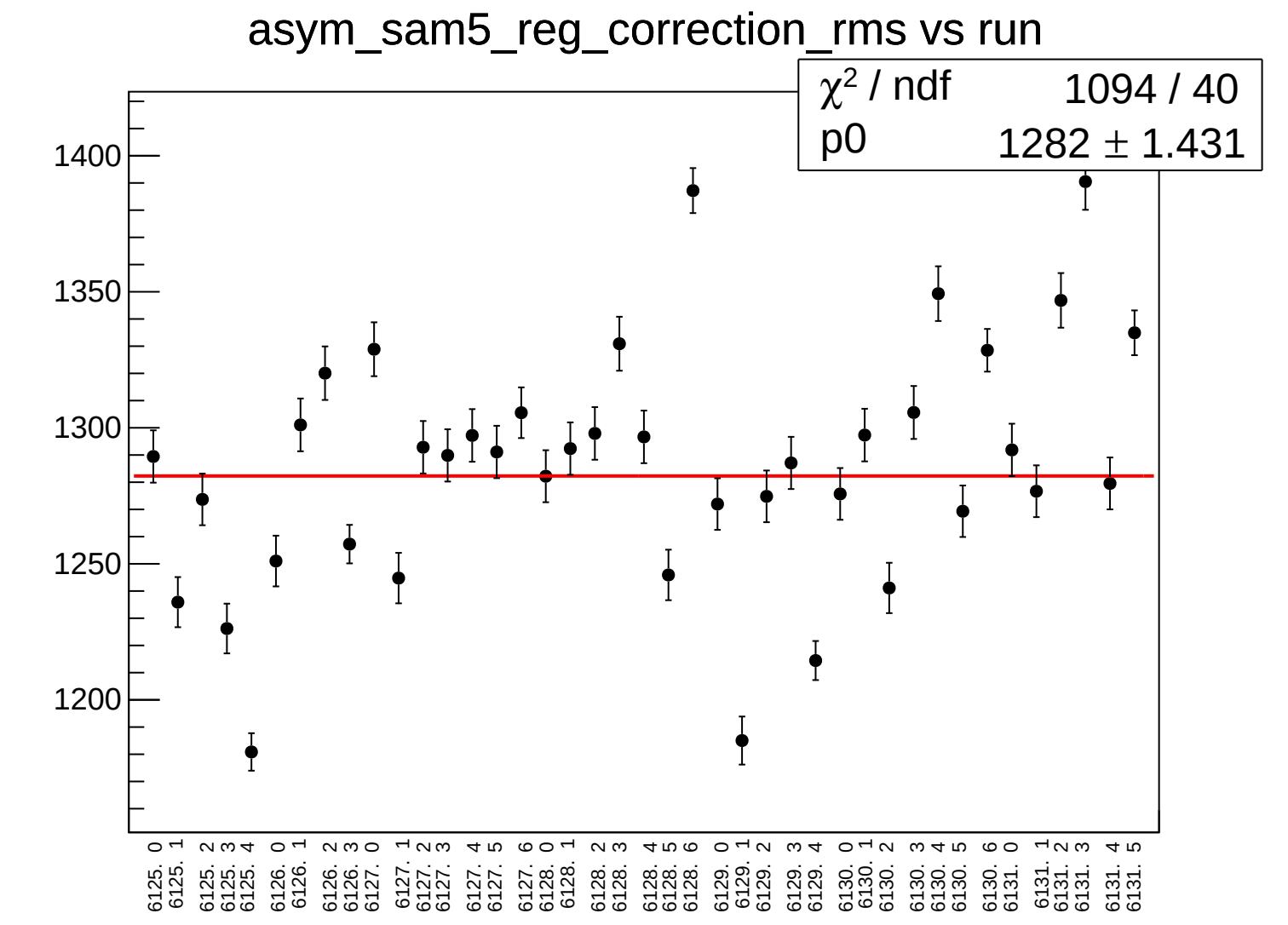
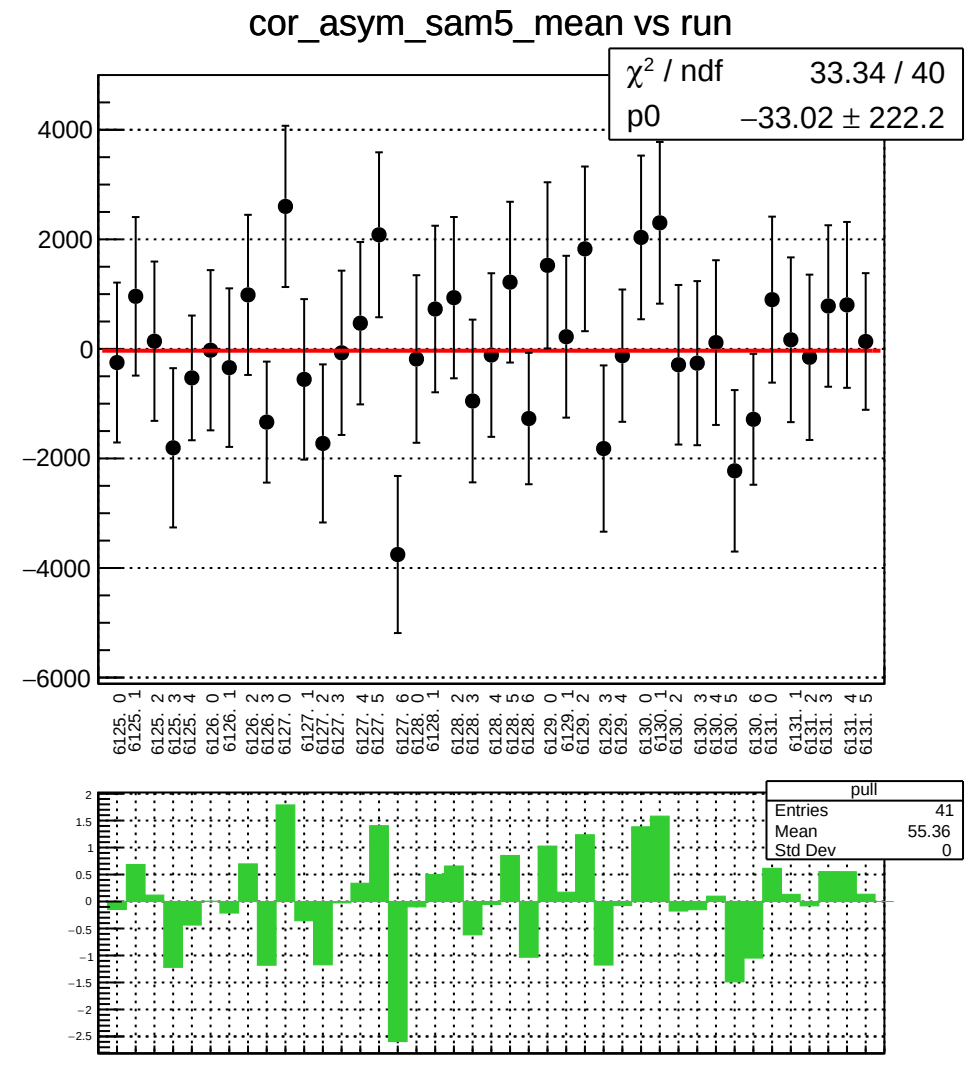
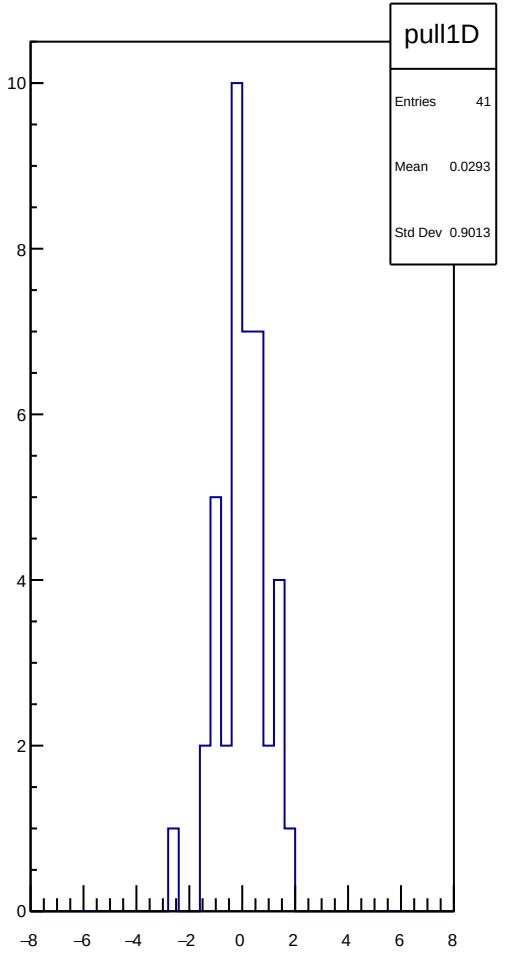
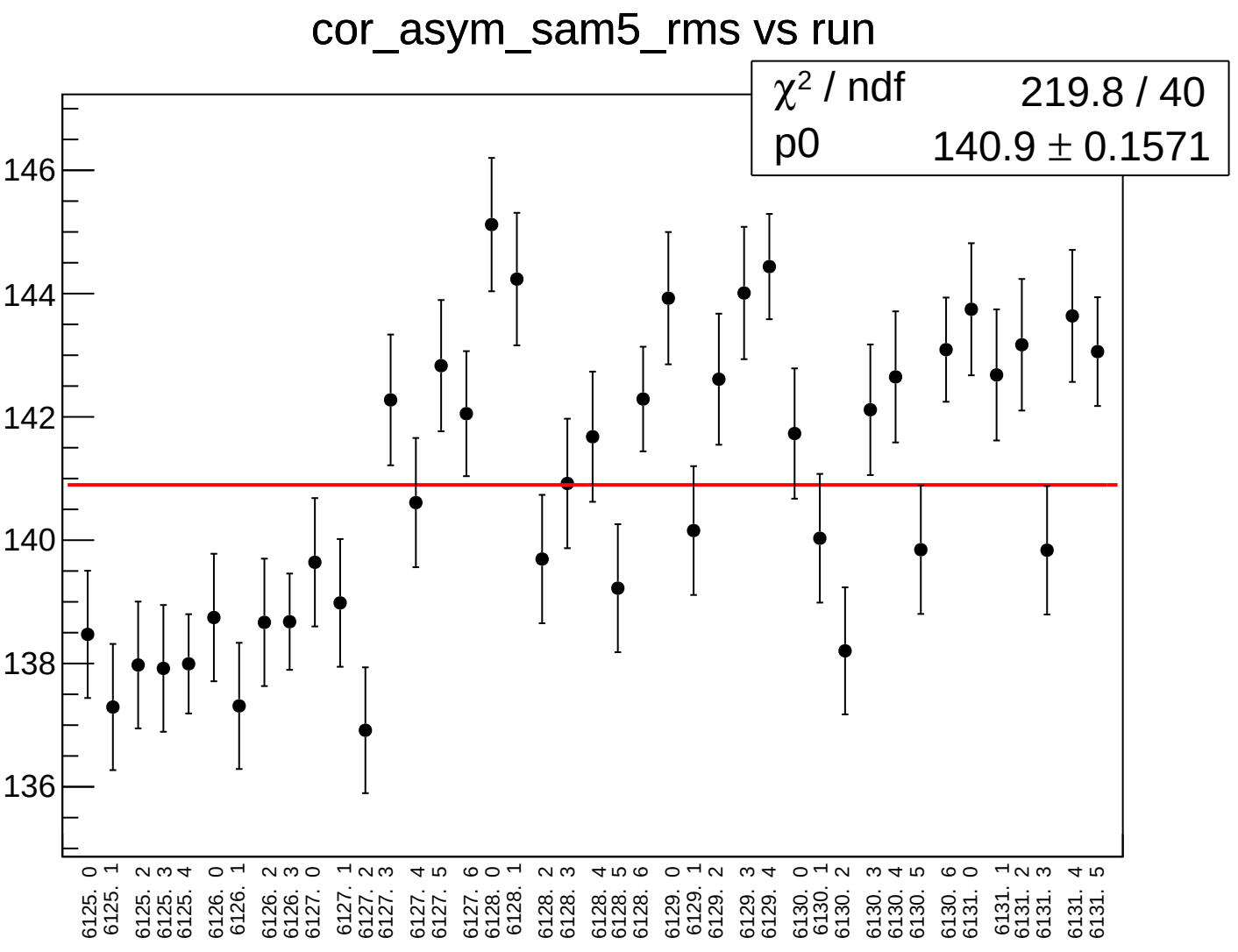
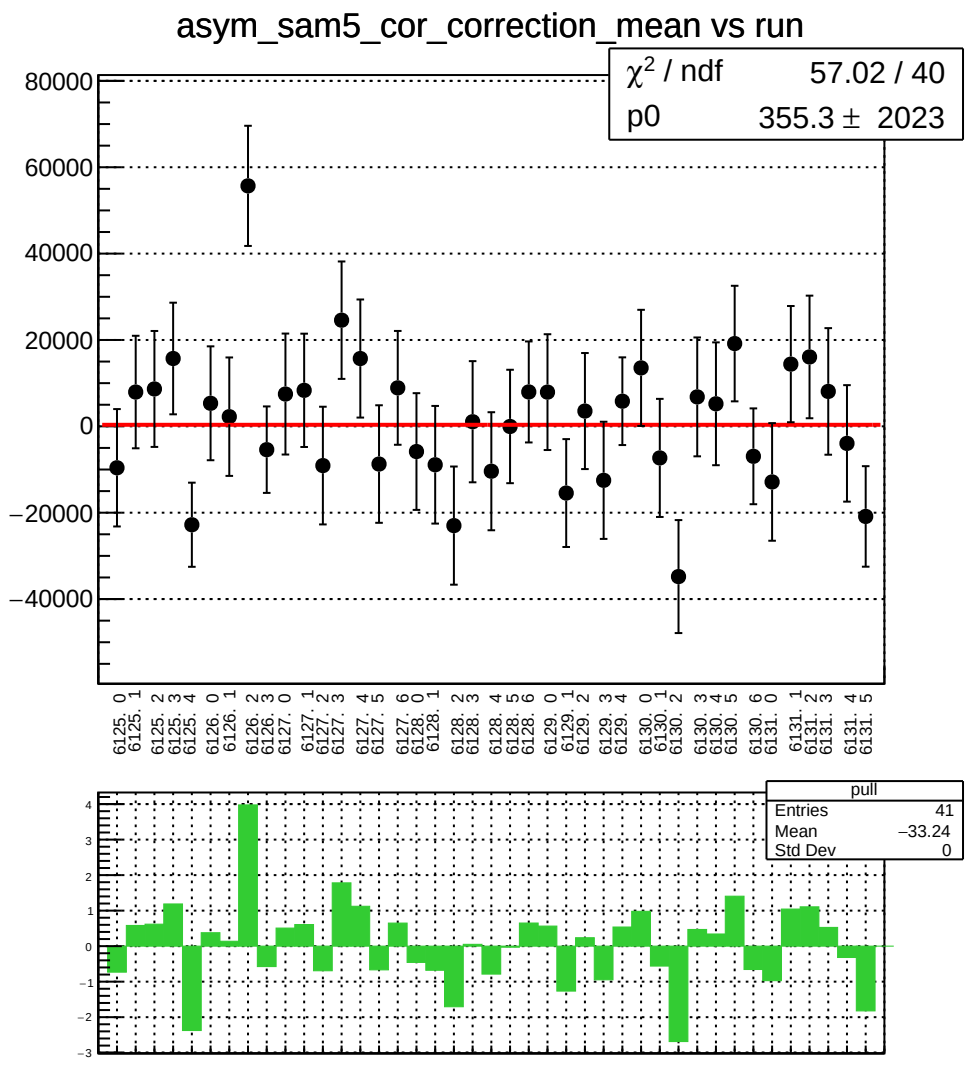
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

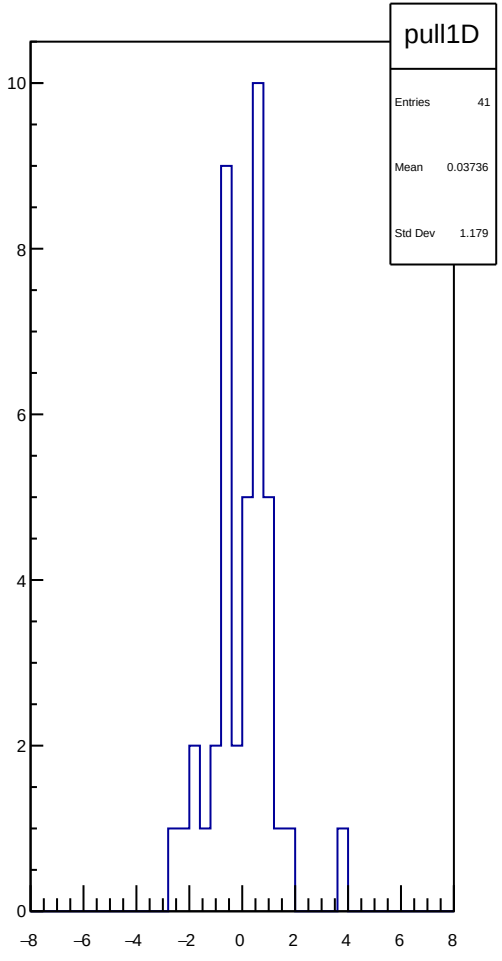

asym_sam5_reg_correction_rms vs run
χ² / ndf 1094 / 40
p0 1282 ± 1.431
1400
1350
1300
1250
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


cor_asym_sam5_mean vs run
χ² / ndf 33.34 / 40
p0 −33.02 ± 222.2
4000
2000
0
−2000
−4000
−6000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 55.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 41
Mean 0.0293
Std Dev 0.9013
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam5_rms vs run
χ² / ndf 219.8 / 40
p0 140.9 ± 0.1571
146
144
142
140
138
136
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam5_cor_correction_mean vs run
χ² / ndf 57.02 / 40
p0 355.3 ± 2023
80000
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −33.24
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean 0.03736
Std Dev 1.179
10
8
6
4
2
0
−8
−6
−4
−2
0
2
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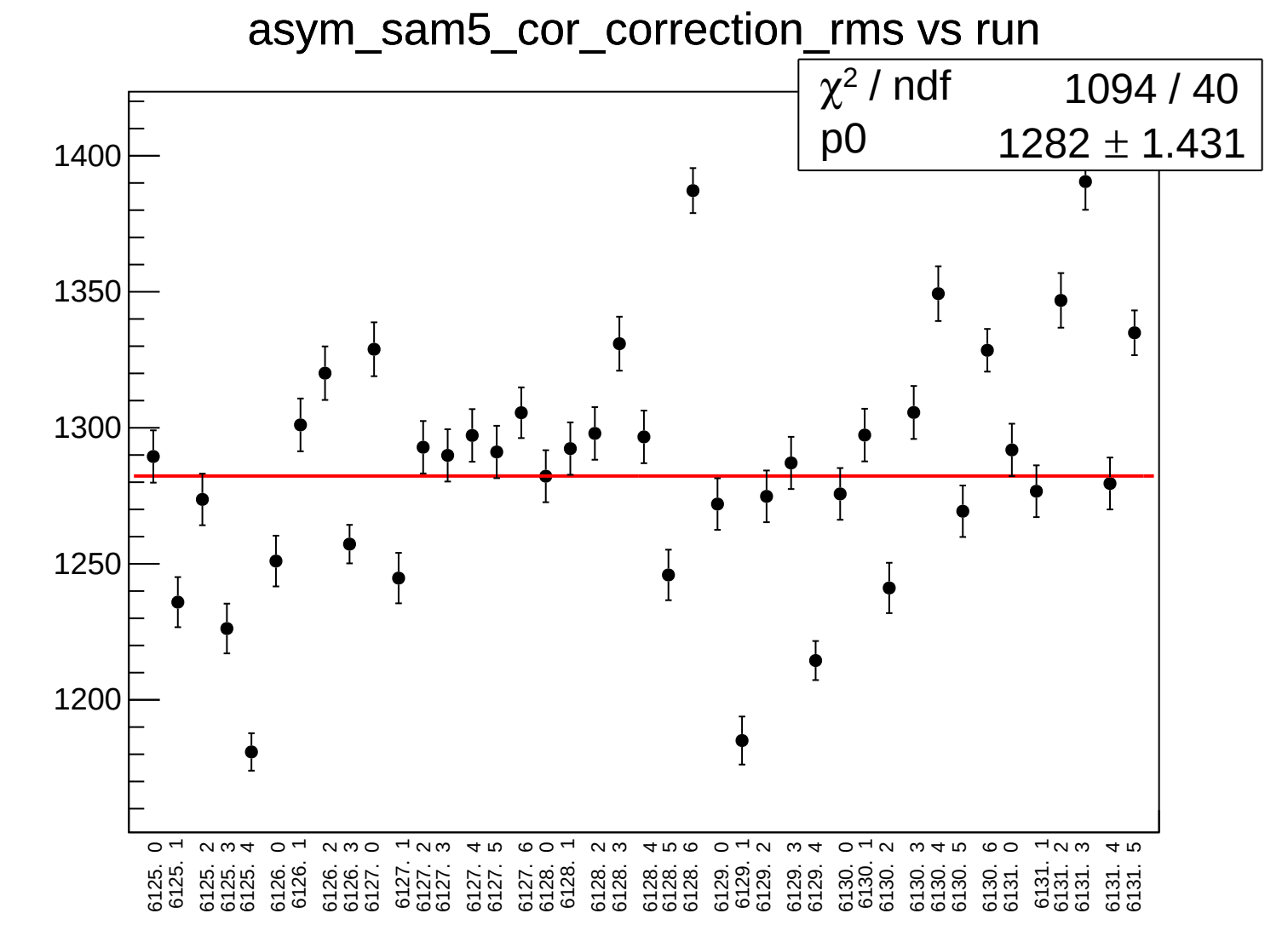
6
8


asym_sam5_cor_correction_rms vs run
χ² / ndf 1094 / 40
p0 1282 ± 1.431
1400
1350
1300
1250
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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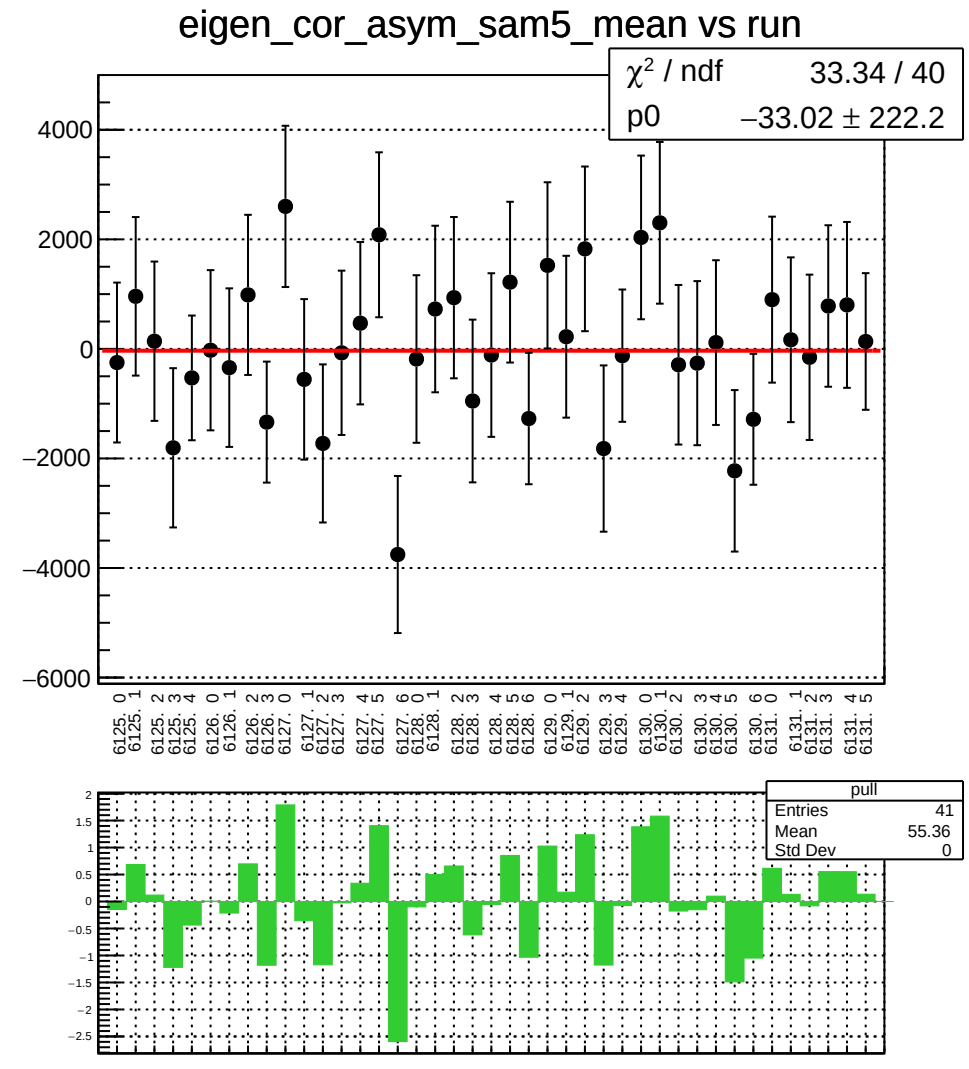
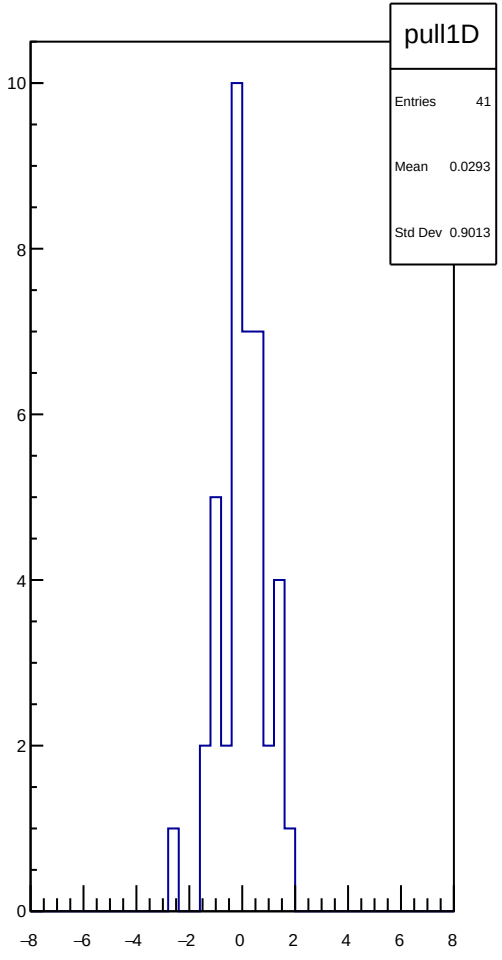
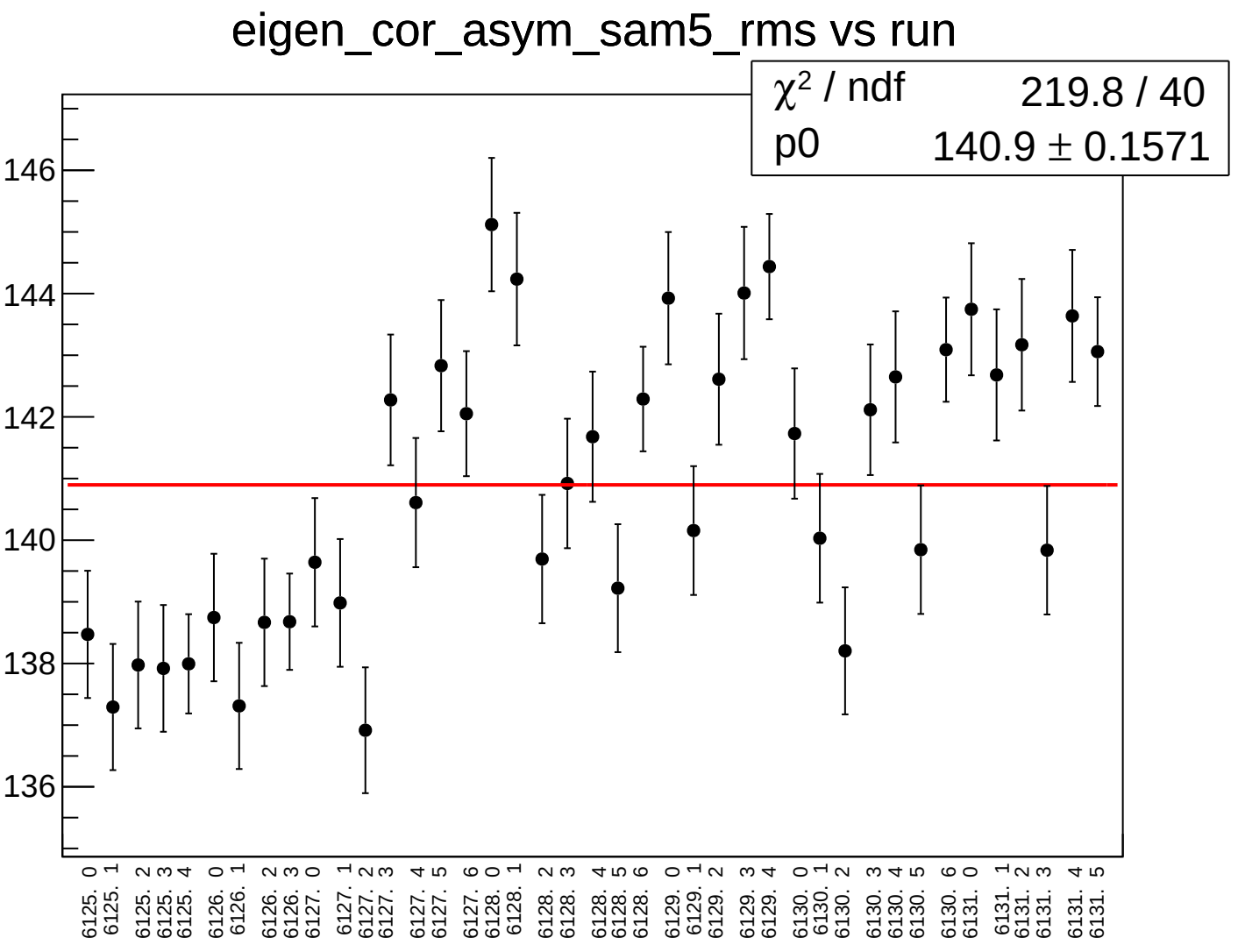
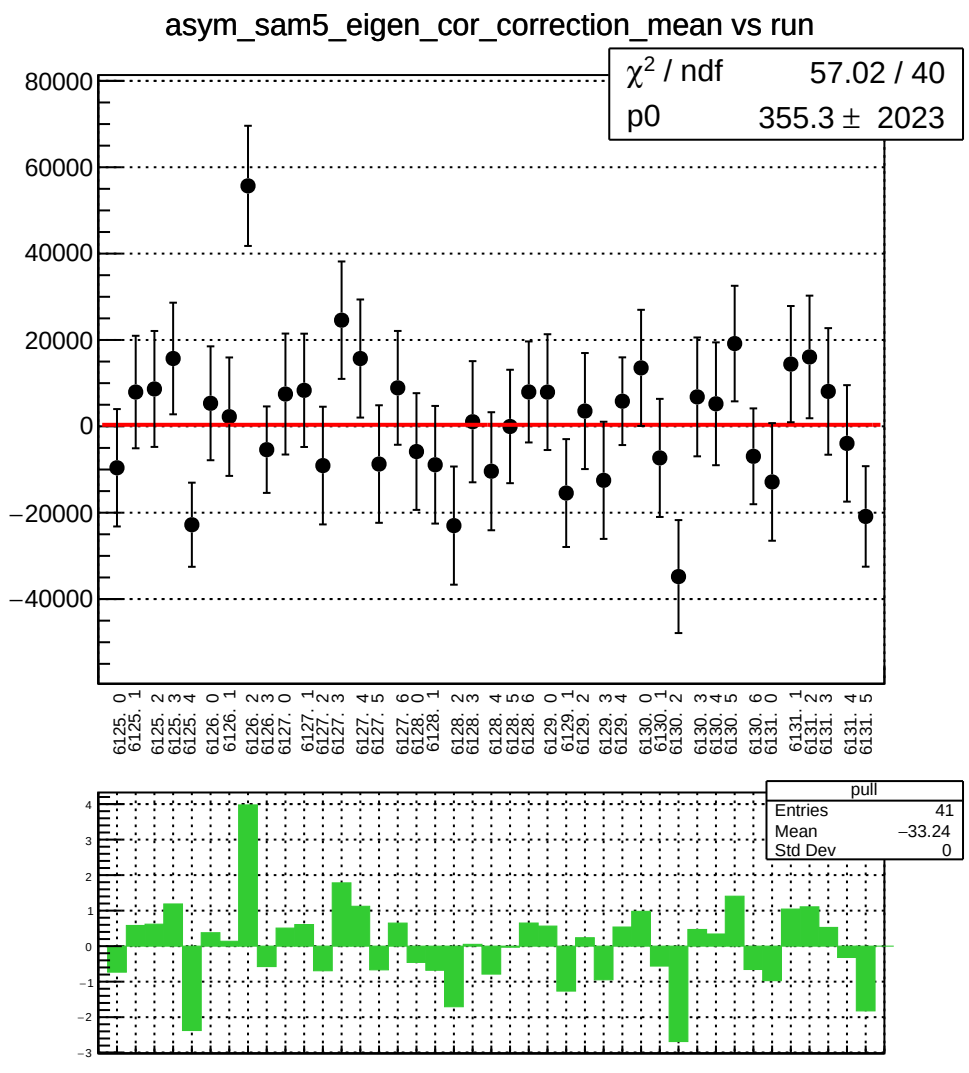
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_sam5_mean vs run
χ² / ndf 33.34 / 40
p0 −33.02 ± 222.2
4000
2000
0
−2000
−4000
−6000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 55.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 41
Mean 0.0293
Std Dev 0.9013
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam5_rms vs run
χ² / ndf 219.8 / 40
p0 140.9 ± 0.1571
146
144
142
140
138
136
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 57.02 / 40
p0 355.3 ± 2023
80000
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
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6129. 0
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6129. 2
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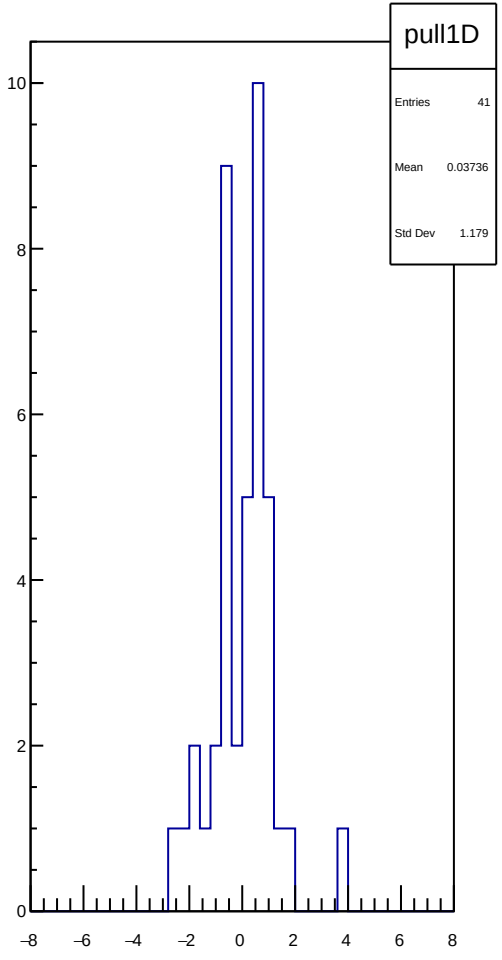
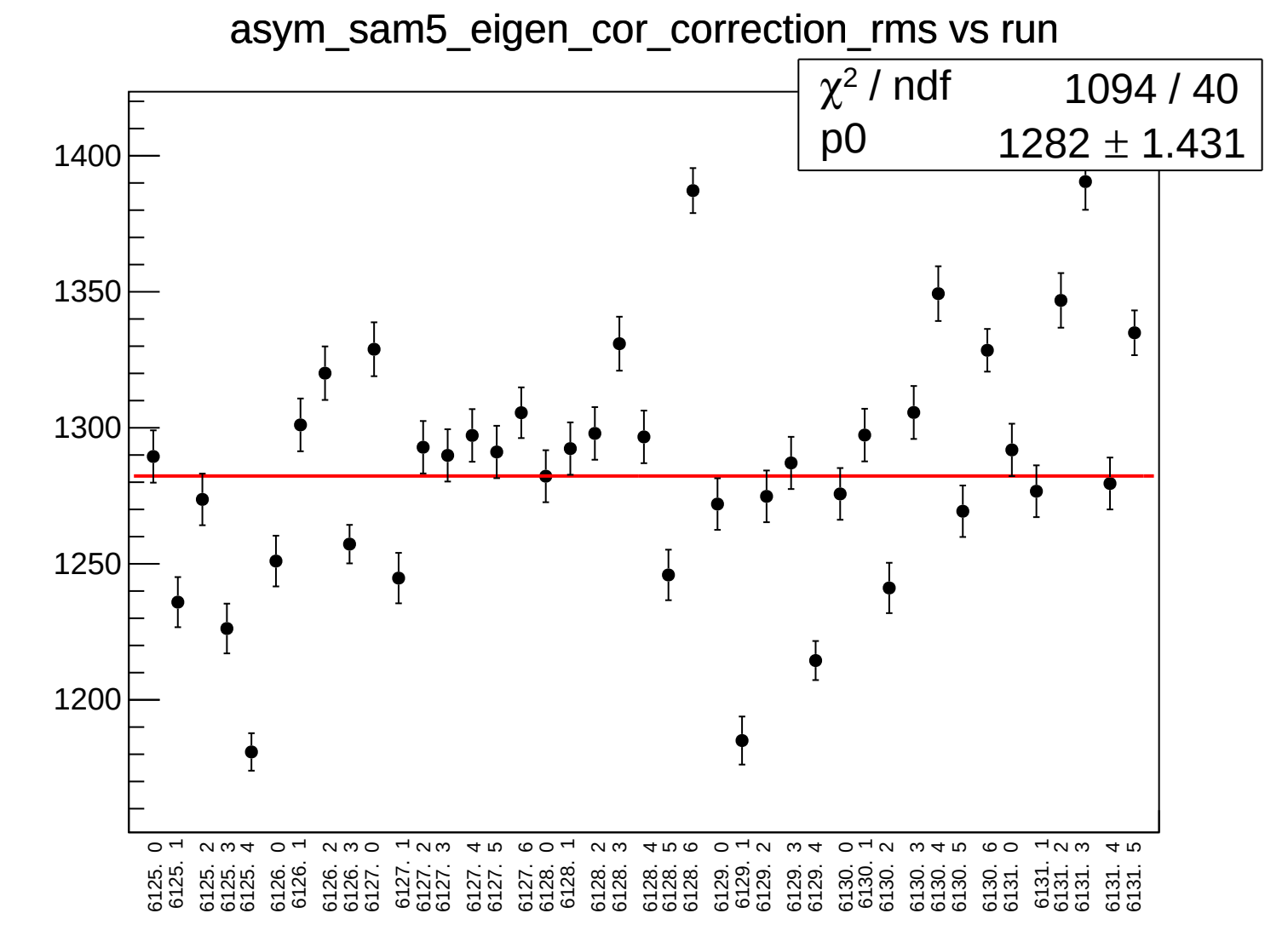
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −33.24
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean 0.03736
Std Dev 1.179
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 1094 / 40
p0 1282 ± 1.431
1400
1350
1300
1250
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
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6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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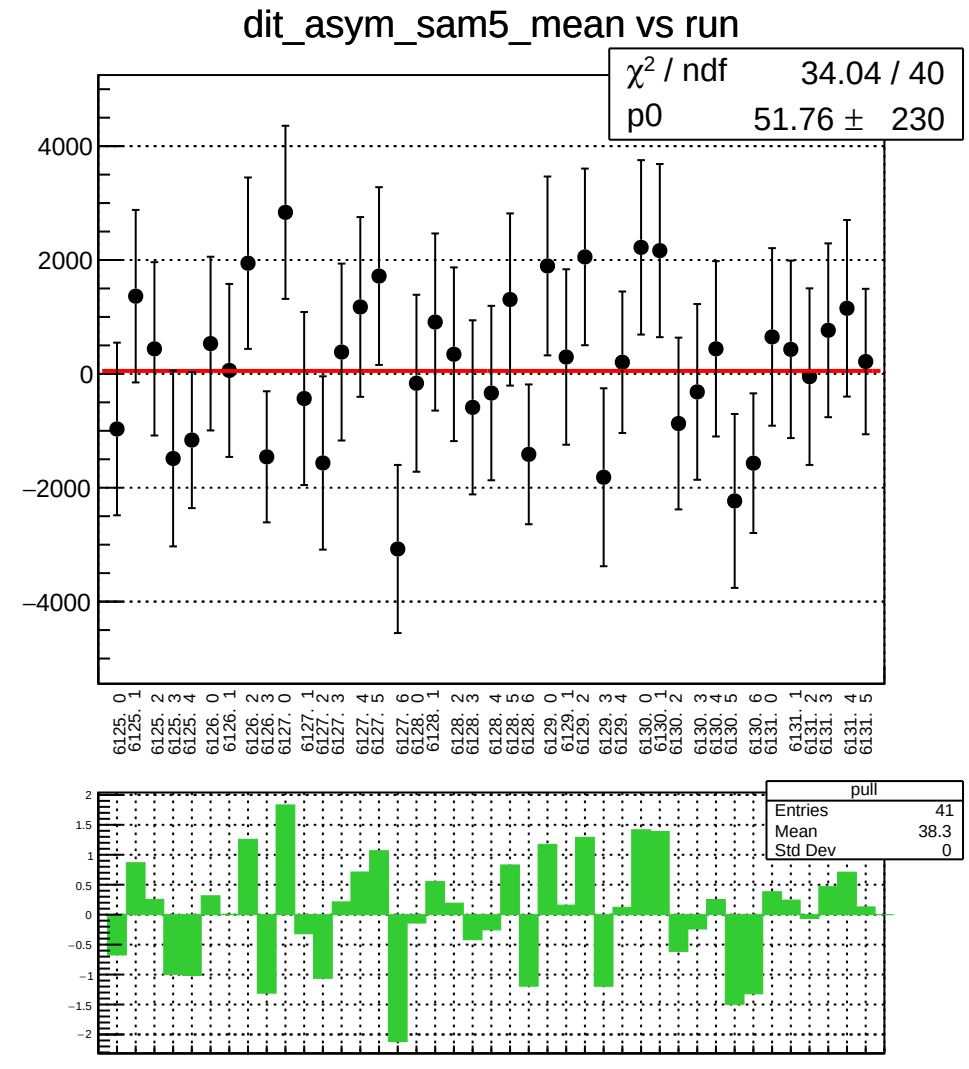
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


dit_asym_sam5_mean vs run
χ² / ndf 34.04 / 40
p0 51.76 ± 230
4000
2000
0
−2000
−4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
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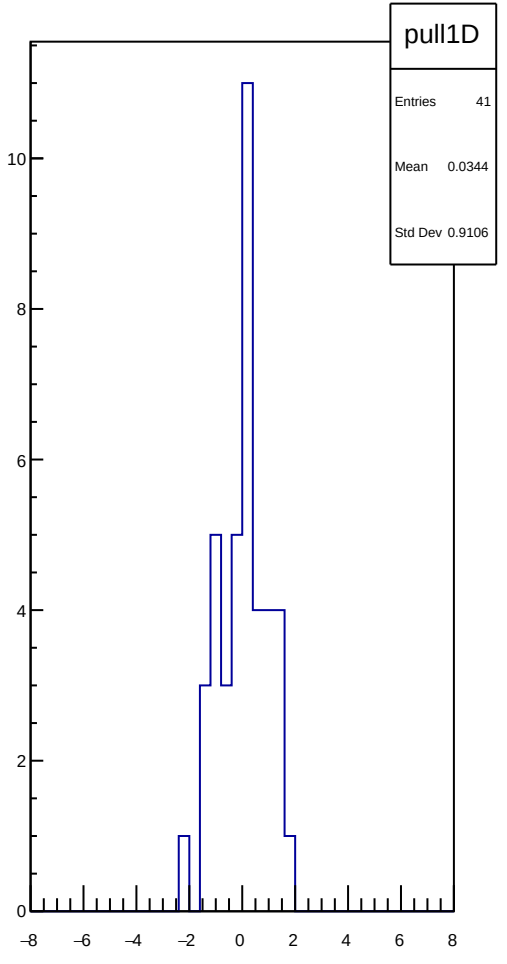
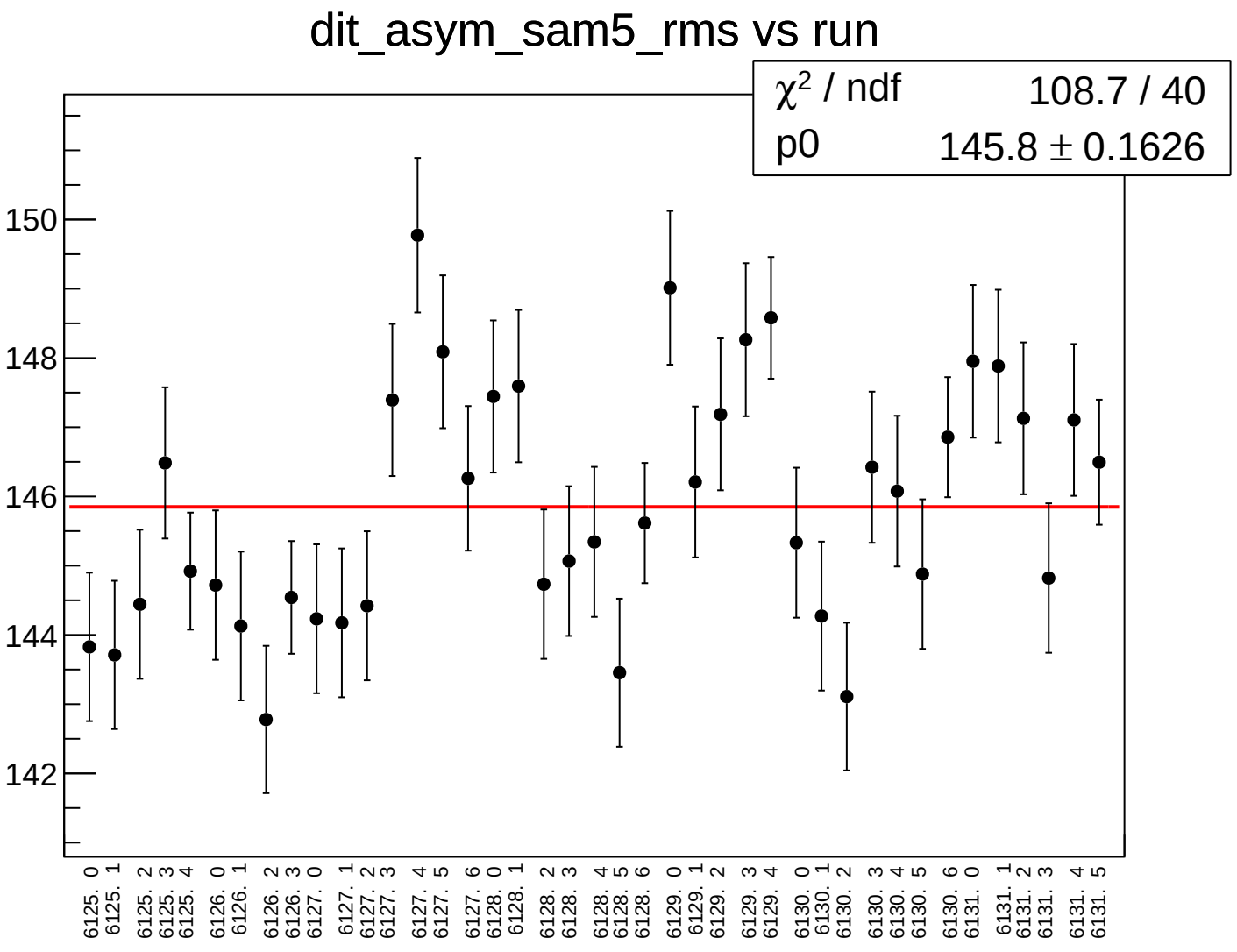
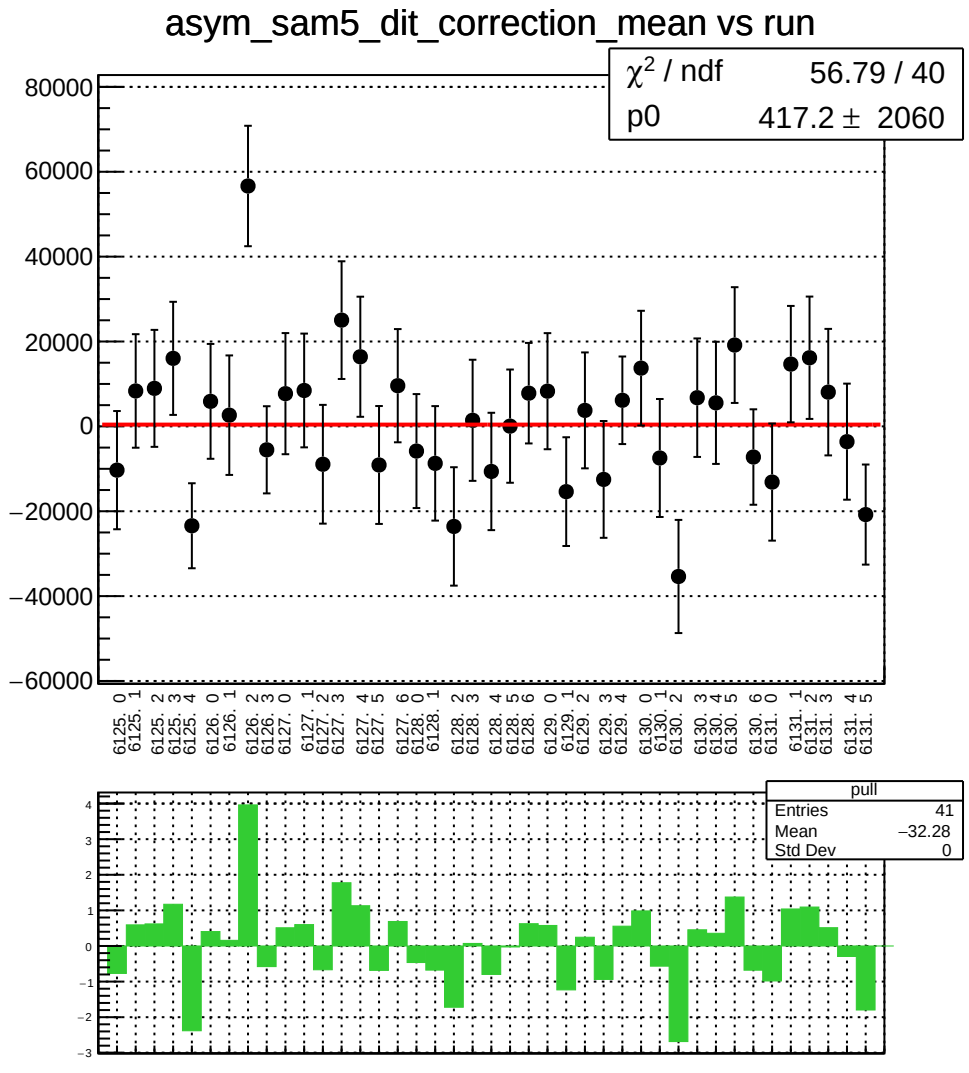
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 38.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.0344
Std Dev 0.9106
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam5_rms vs run
χ² / ndf 108.7 / 40
p0 145.8 ± 0.1626
150
148
146
144
142
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam5_dit_correction_mean vs run
χ² / ndf 56.79 / 40
p0 417.2 ± 2060
80000
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
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6128. 6
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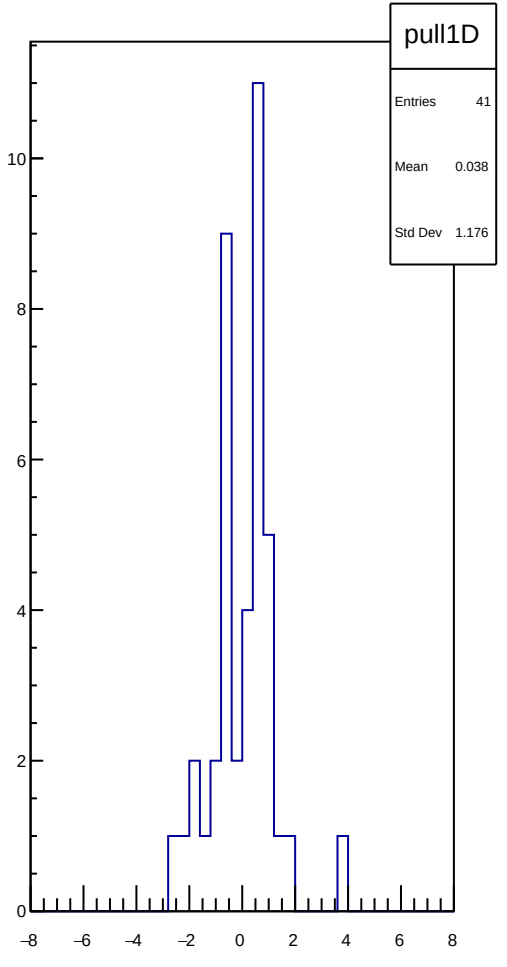
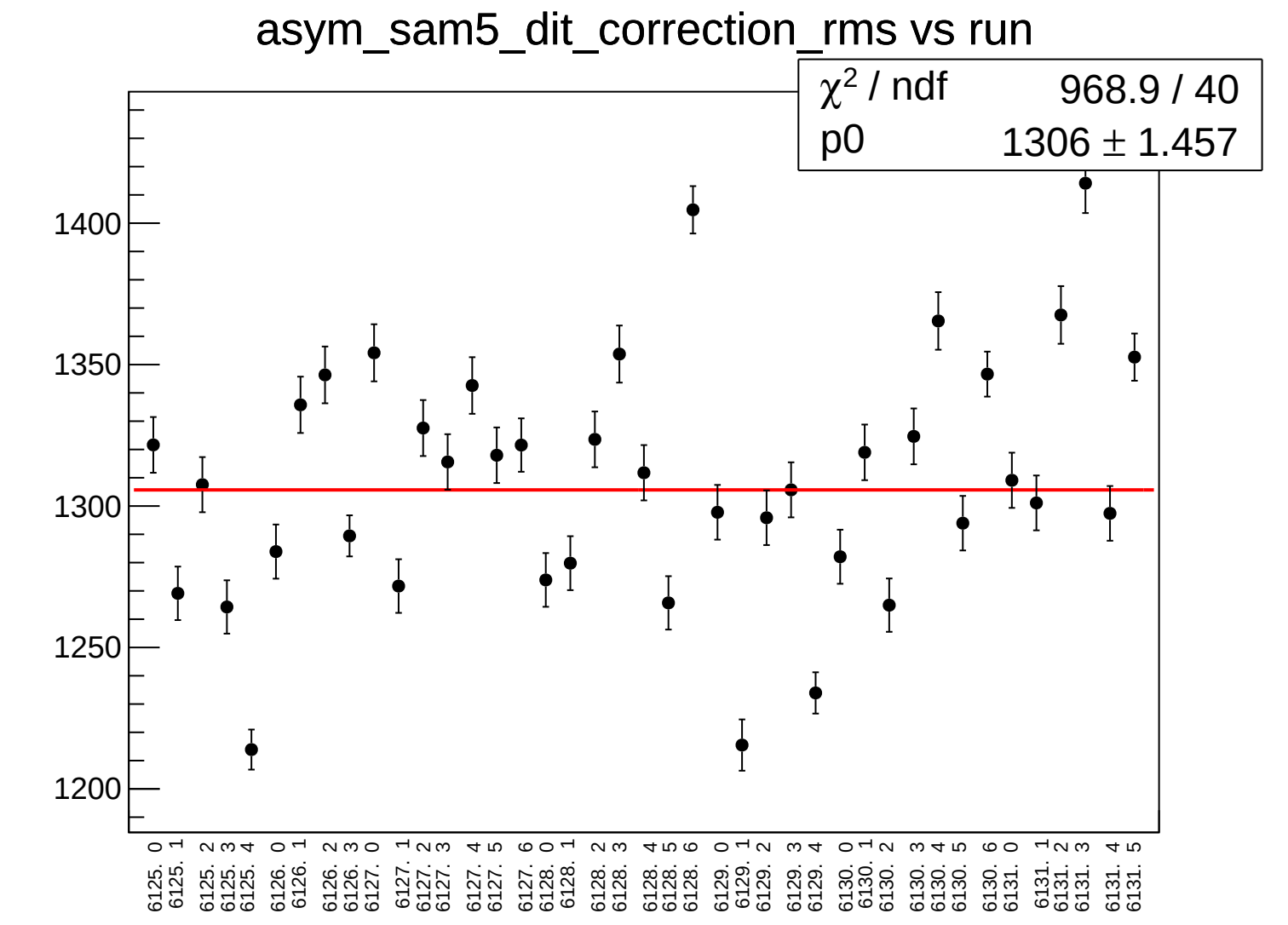
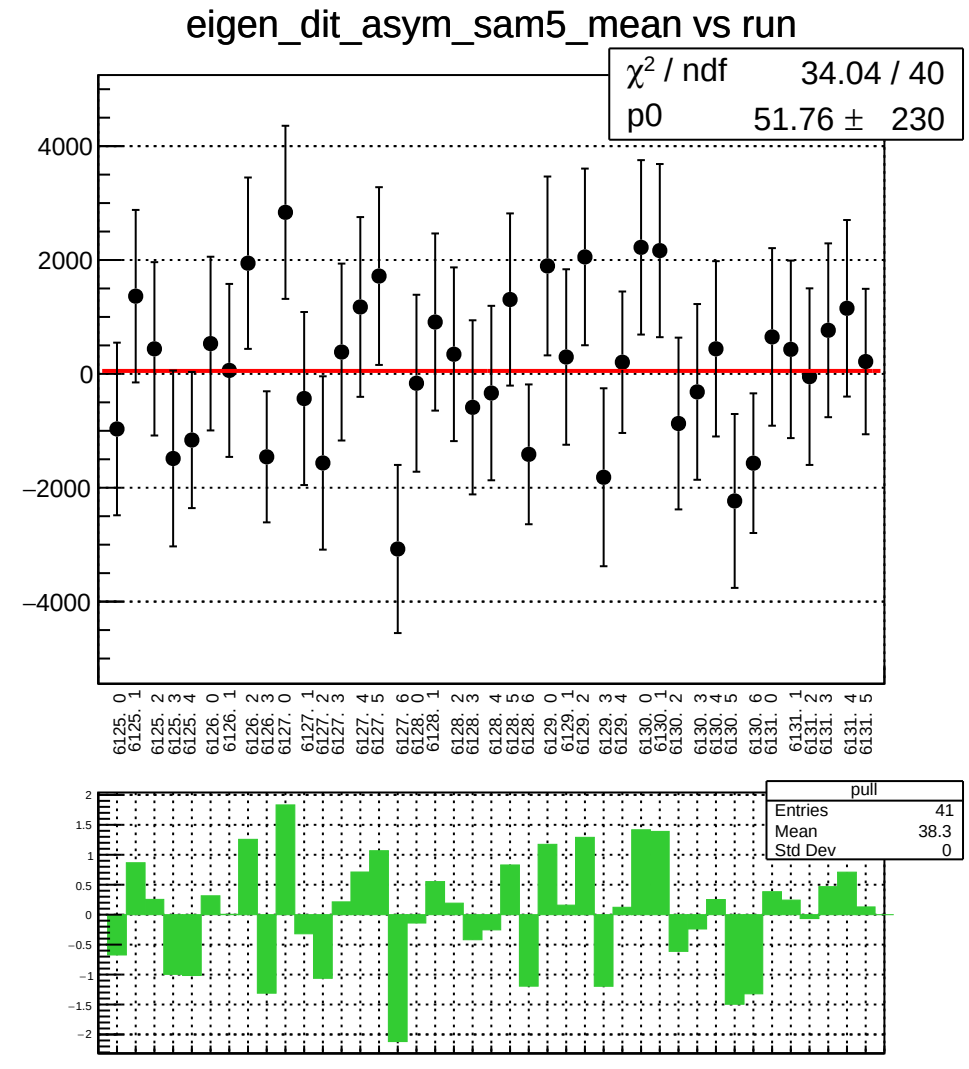
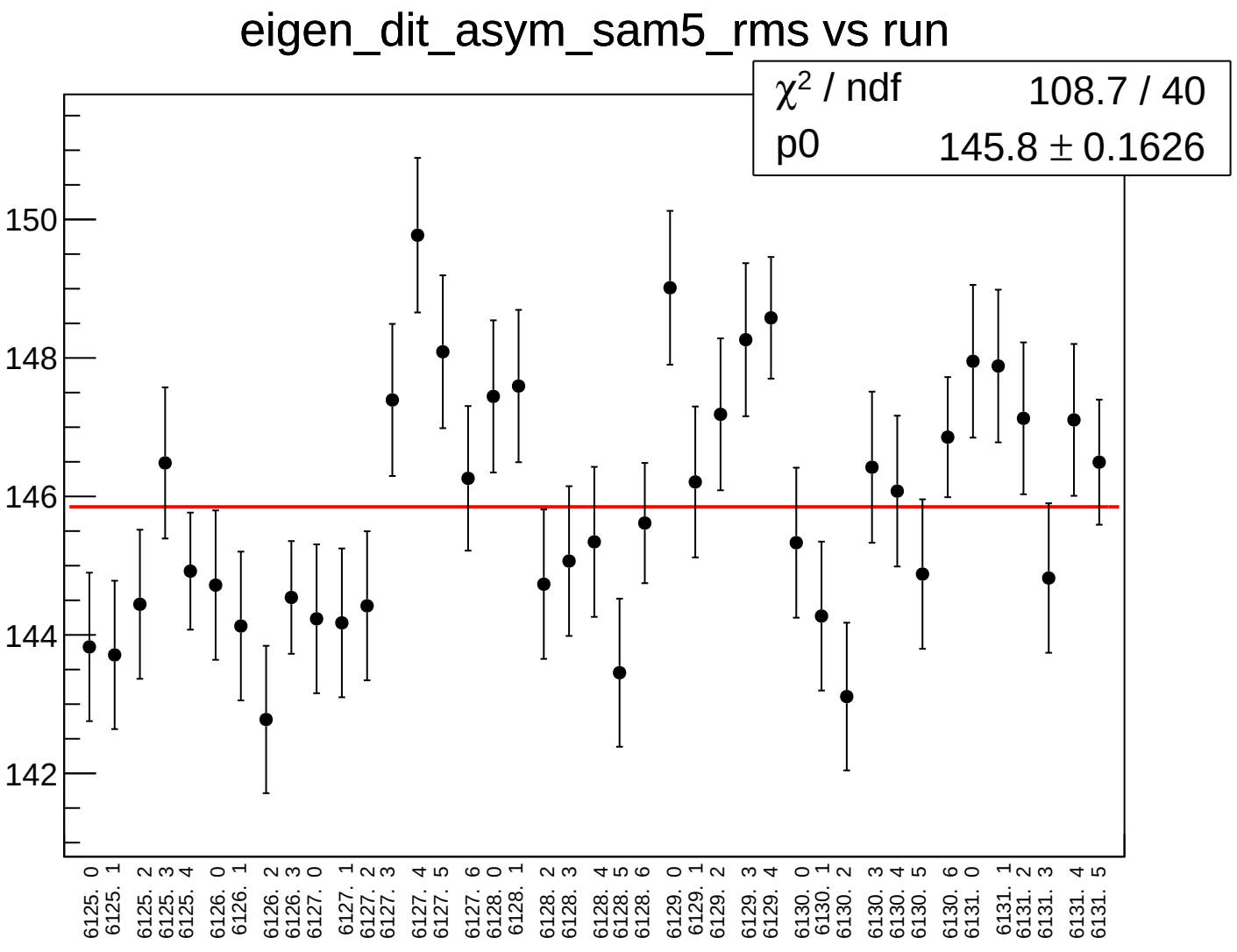
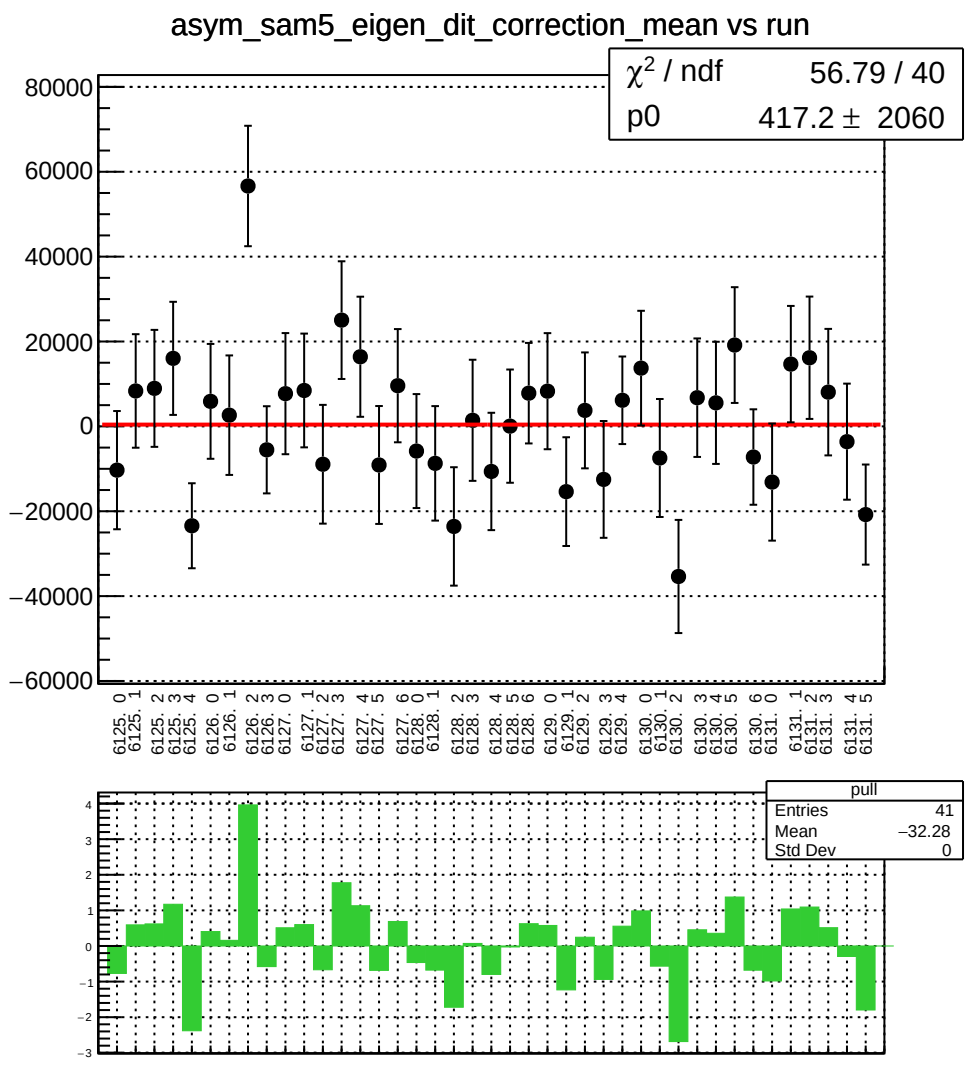
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −32.28
Std Dev 0
4
3
2
1
0
−1
−2
−3

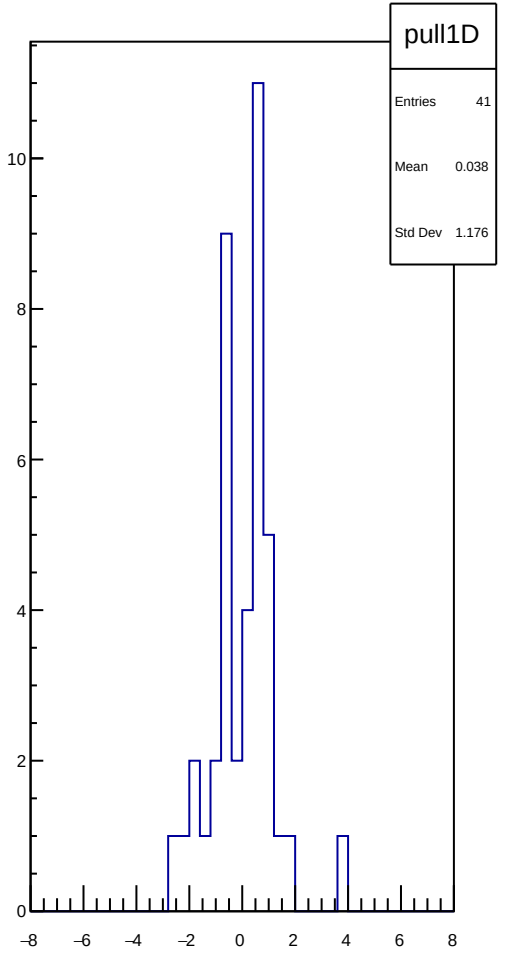

pull1D
Entries 41
Mean 0.038
Std Dev 1.176
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

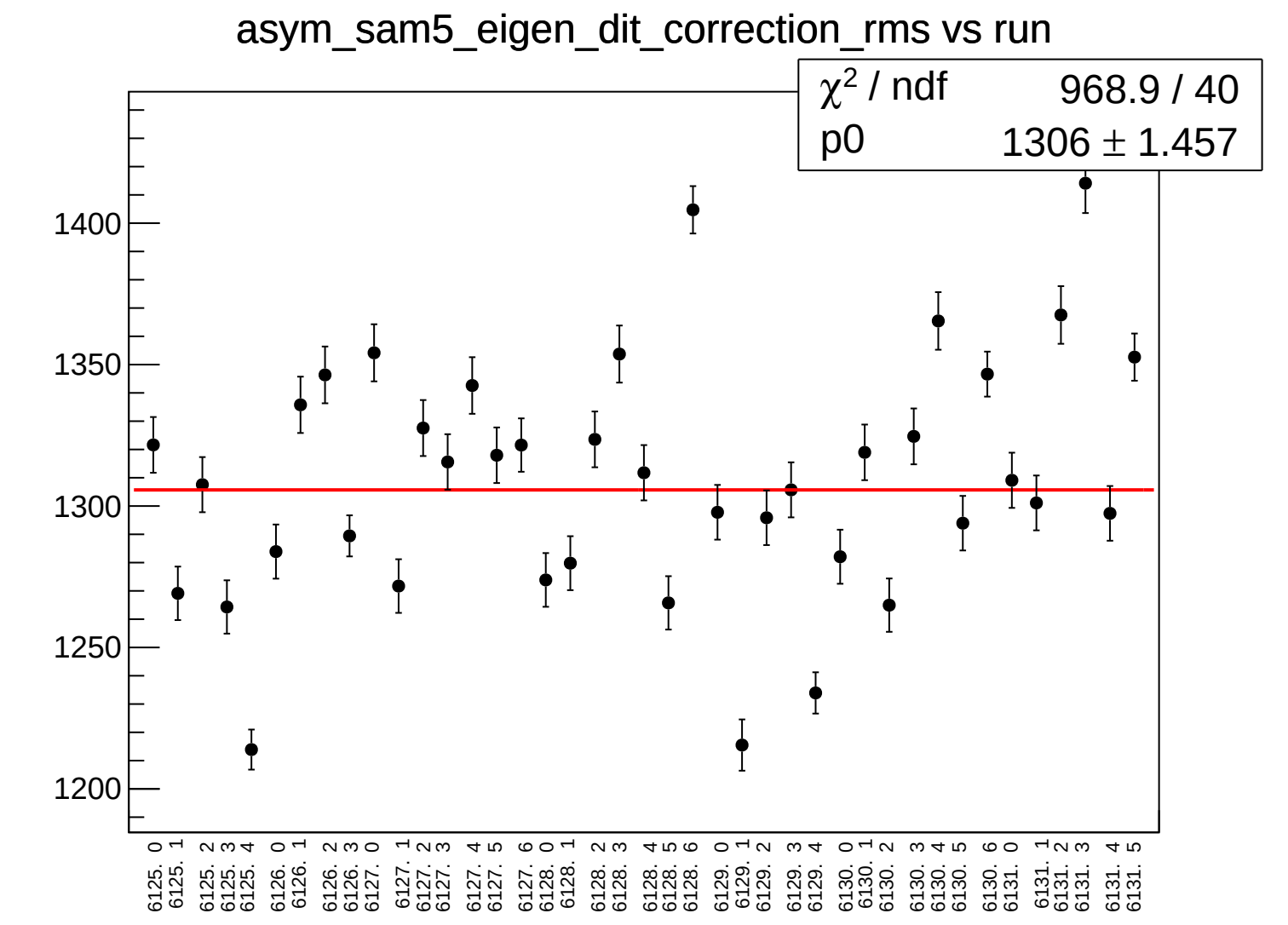

asym_sam5_dit_correction_rms vs run
χ² / ndf 968.9 / 40
p0 1306 ± 1.457
1400
1350
1300
1250
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

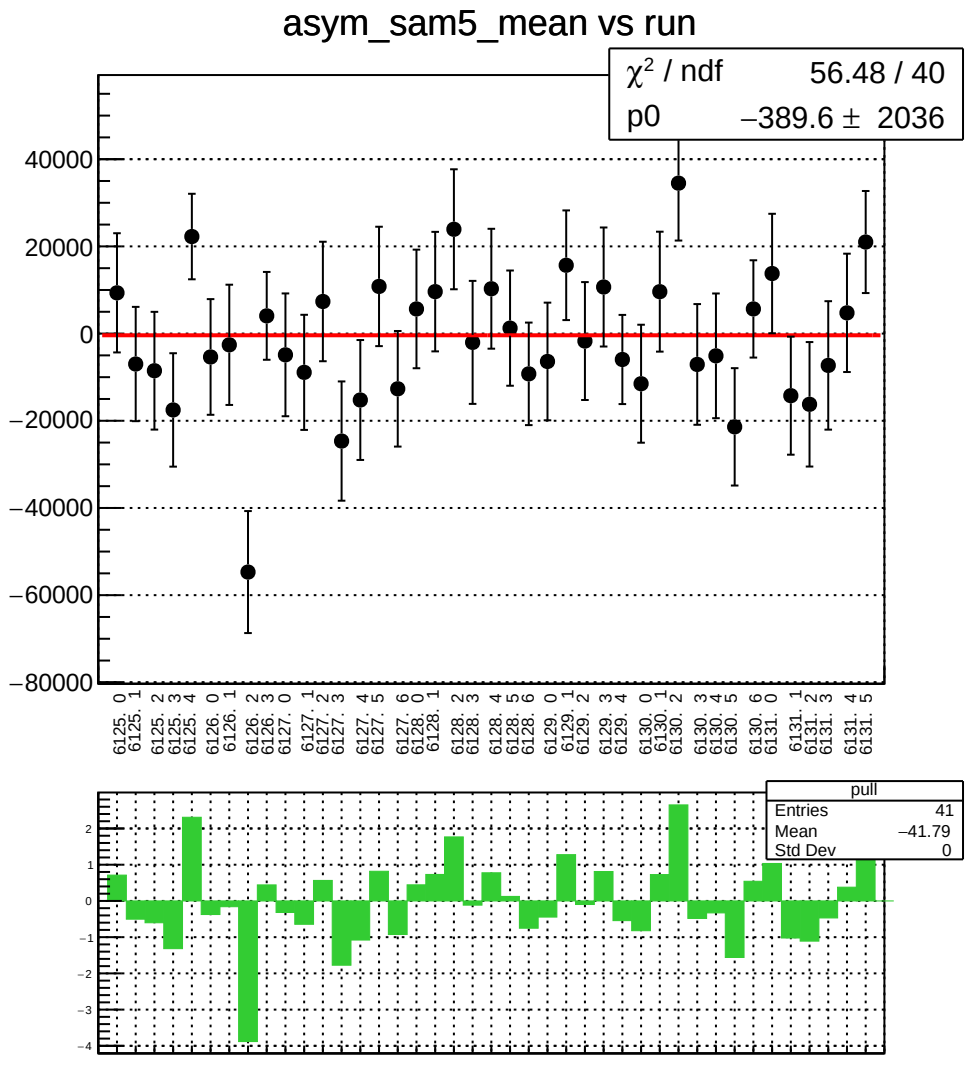

eigen_dit_asym_sam5_mean vs run
χ² / ndf 34.04 / 40
p0 51.76 ± 230
4000
2000
0
−2000
−4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 38.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.0344
Std Dev 0.9106
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

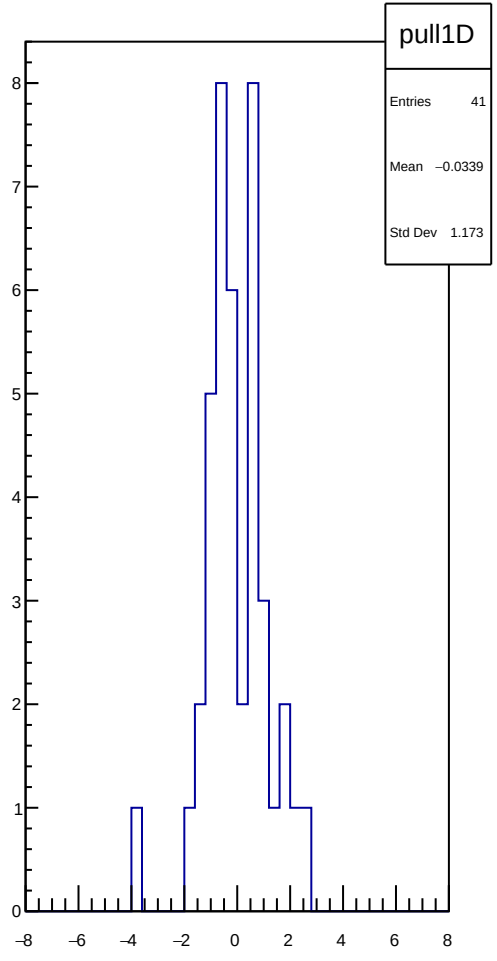

eigen_dit_asym_sam5_rms vs run
χ² / ndf 108.7 / 40
p0 145.8 ± 0.1626
150
148
146
144
142
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

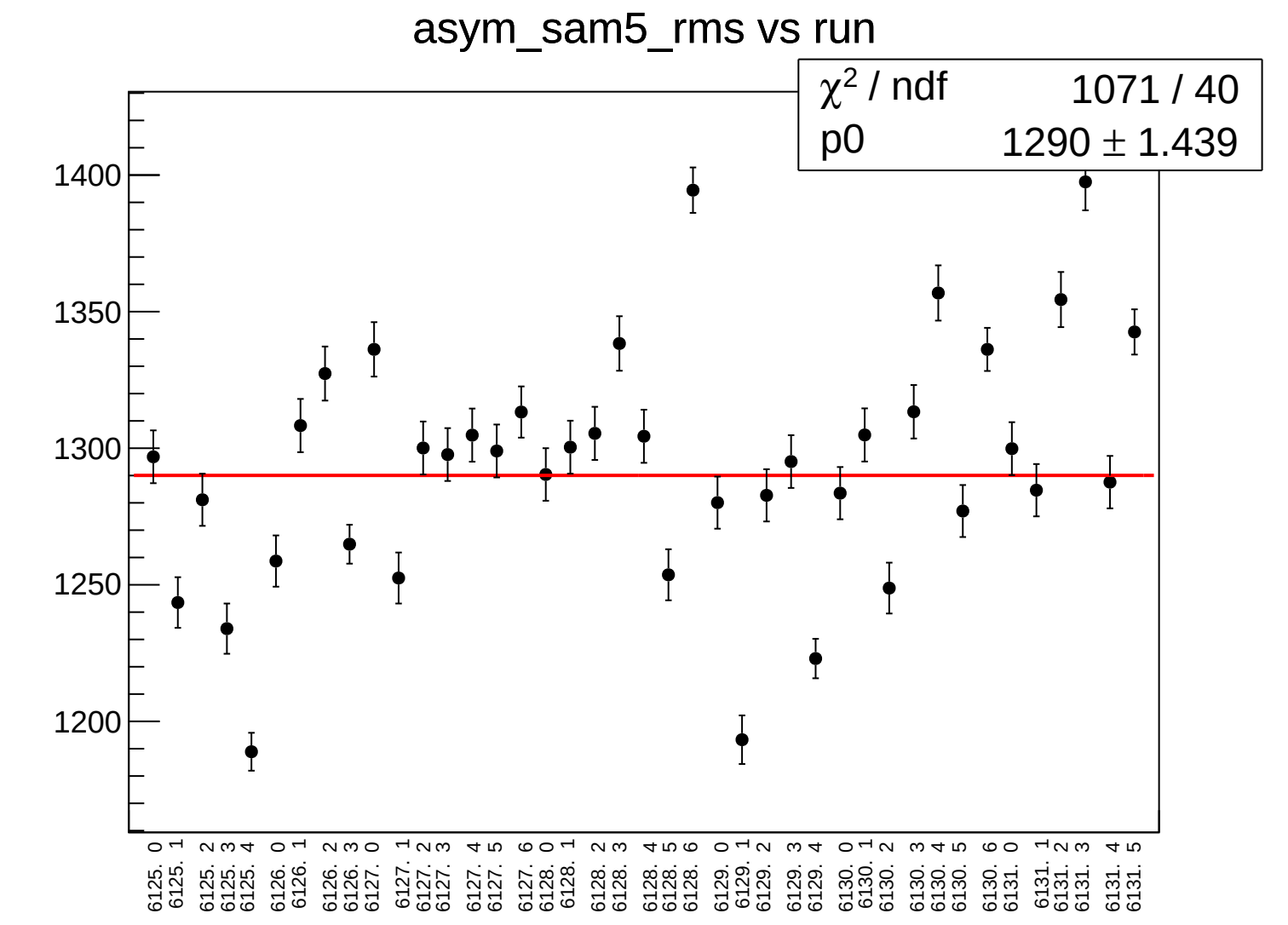

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 56.79 / 40
p0 417.2 ± 2060
80000
60000
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −32.28
Std Dev 0
4
3
2
1
0
−1
−2
−3

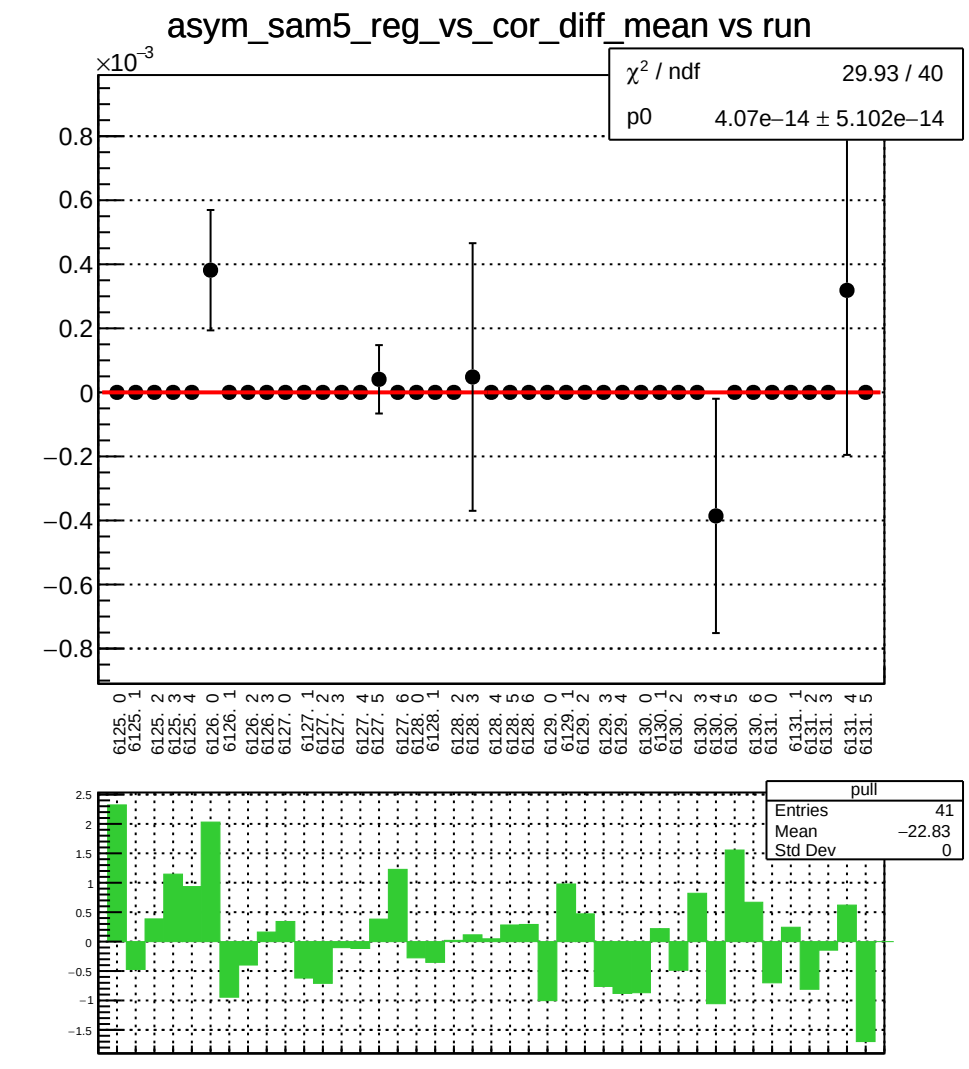

pull1D
Entries 41
Mean 0.038
Std Dev 1.176
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

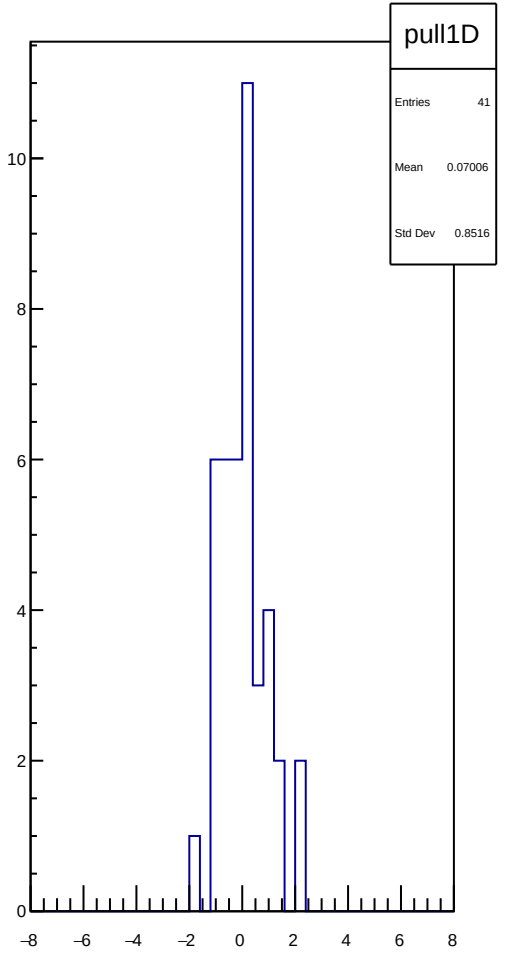

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 968.9 / 40
p0 1306 ± 1.457
1400
1350
1300
1250
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

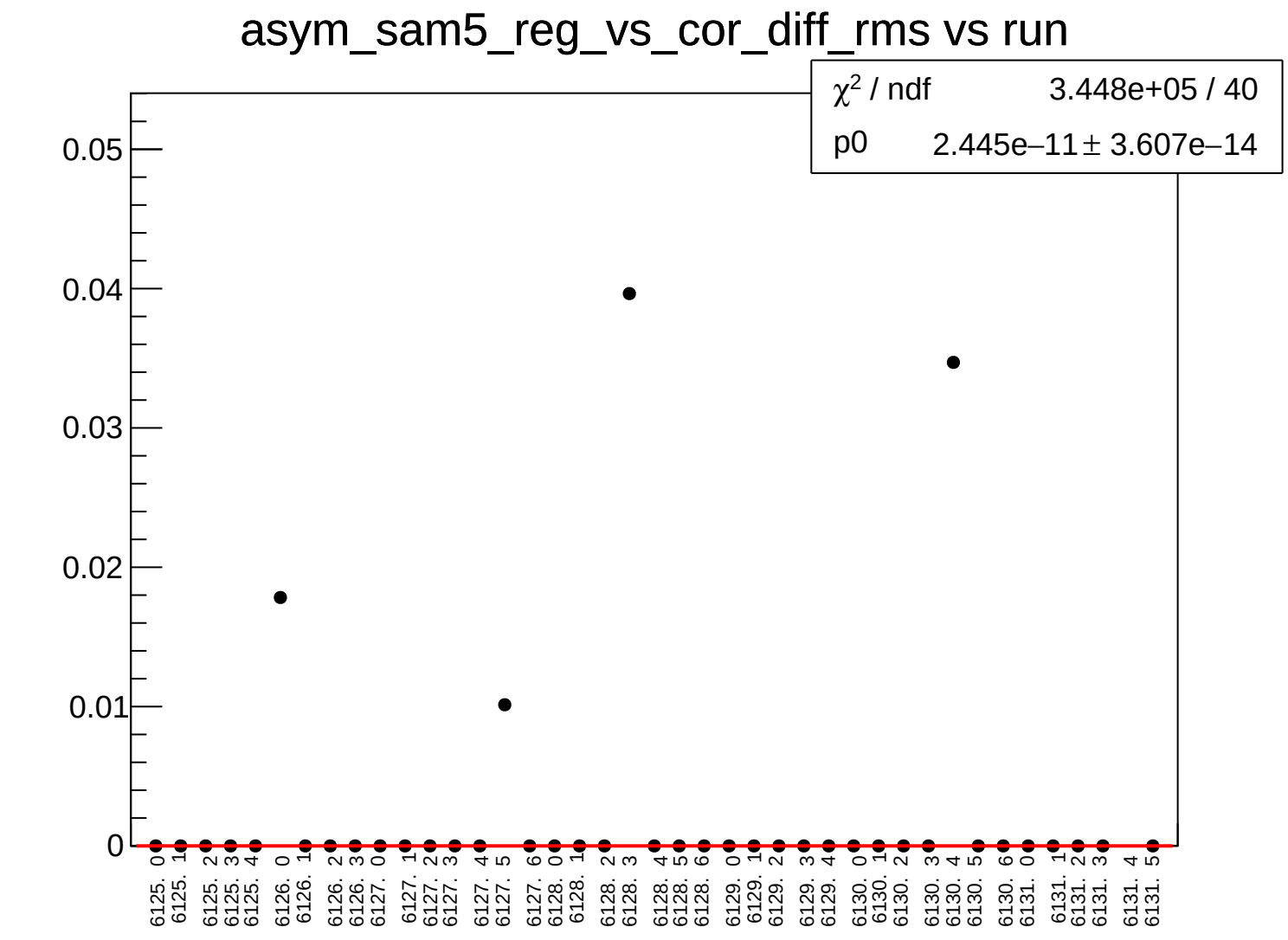

asym_sam5_mean vs run
χ² / ndf 56.48 / 40
p0 −389.6 ± 2036
40000
20000
0
−20000
−40000
−60000
−80000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −41.79
Std Dev 0
2
1
0
−1
−2
−3
−4

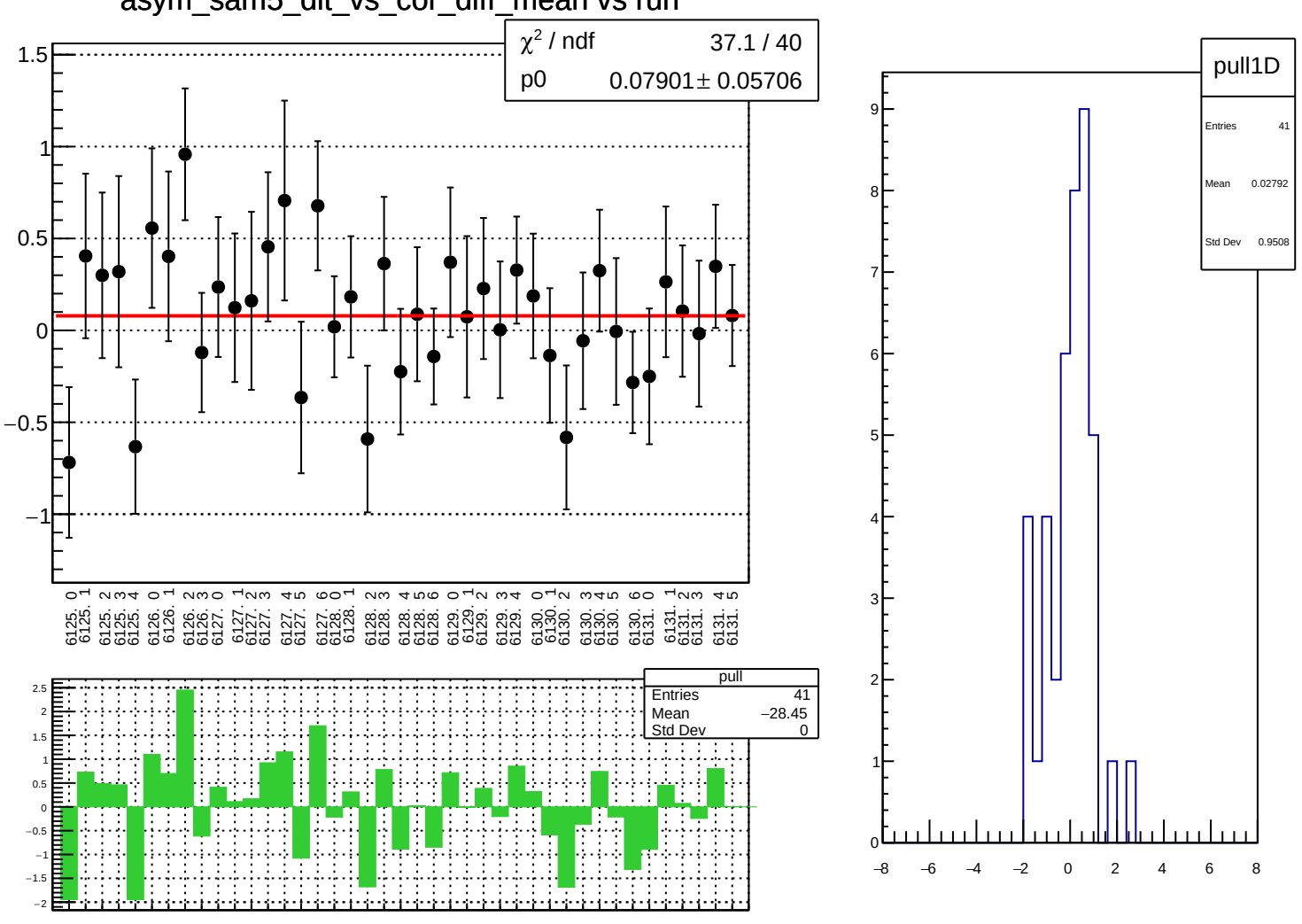

pull1D
Entries 41
Mean −0.0339
Std Dev 1.173
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

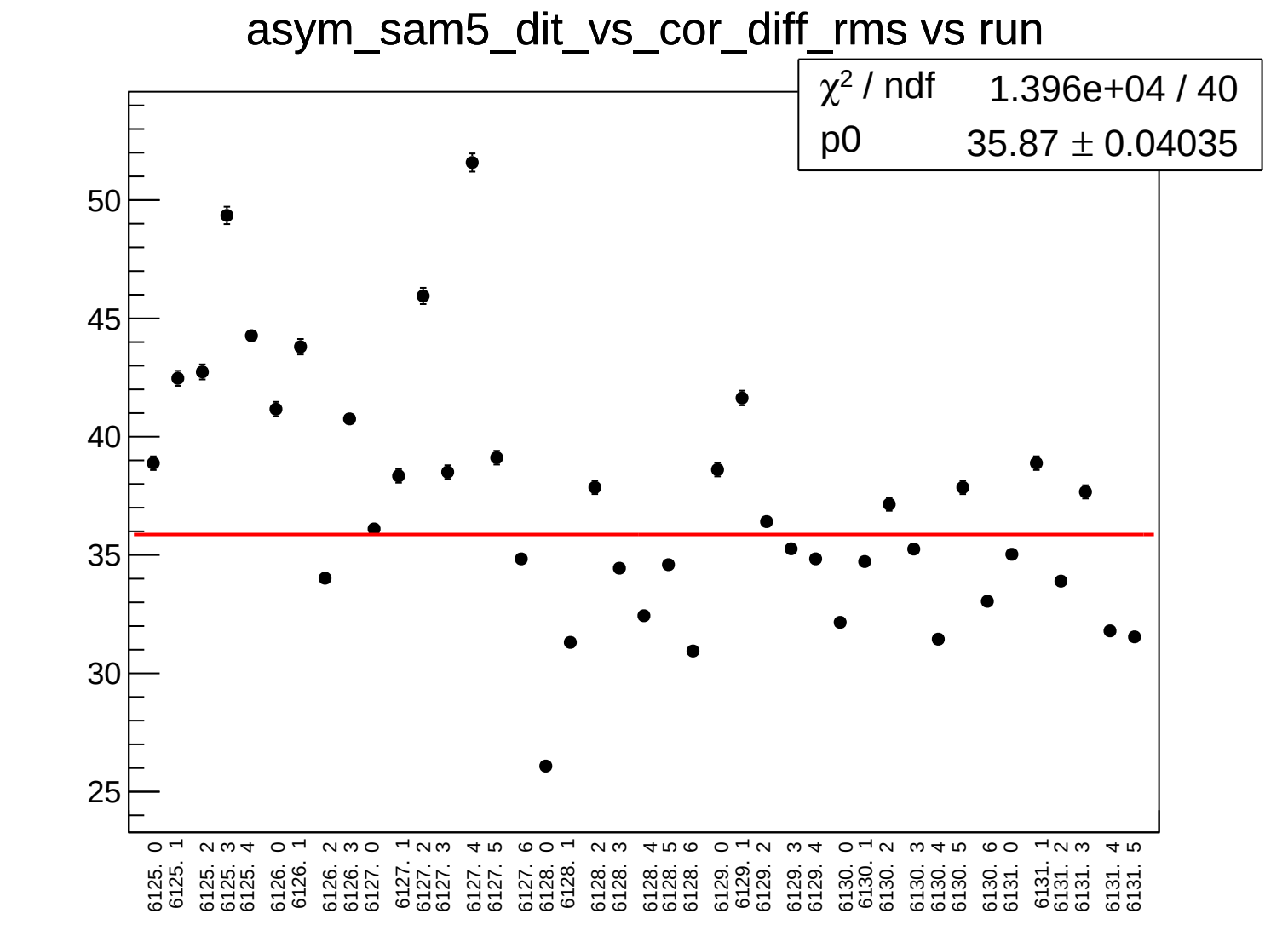

asym_sam5_rms vs run
χ² / ndf 1071 / 40
p0 1290 ± 1.439
1400
1350
1300
1250
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

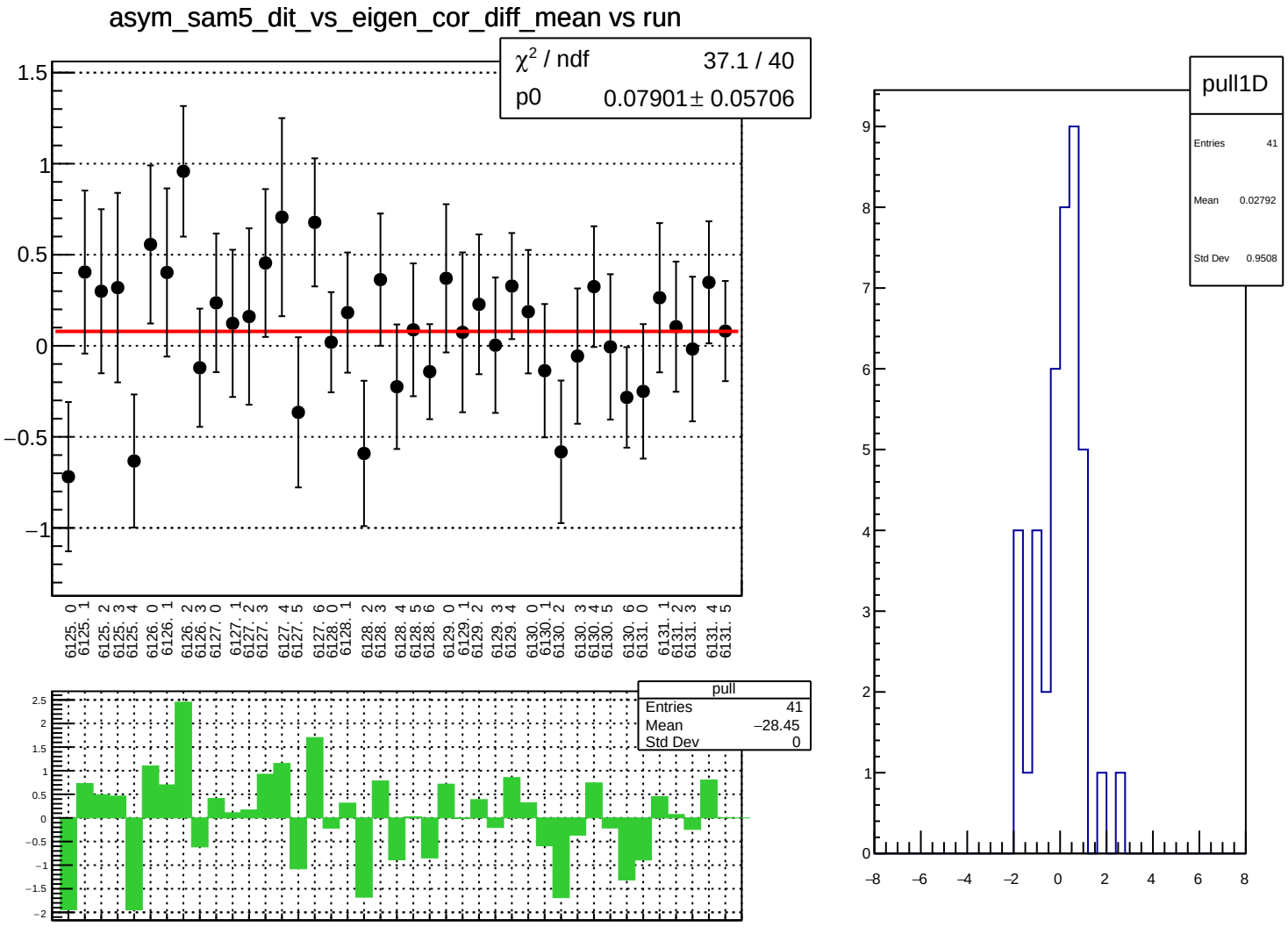

asym_sam5_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 29.93 / 40
p0 4.07e−14 ± 5.102e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −22.83
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

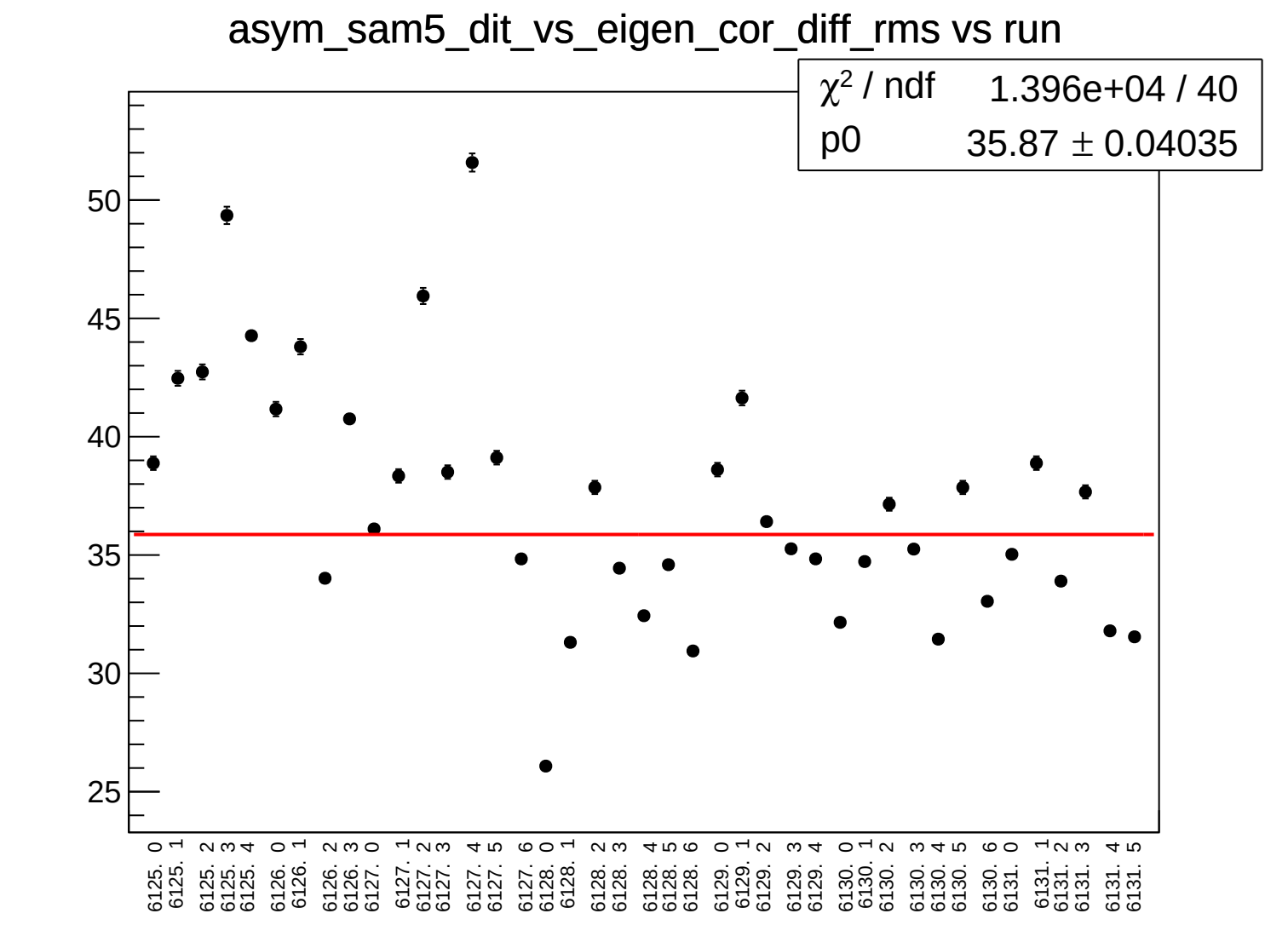

pull1D
Entries 41
Mean 0.07006
Std Dev 0.8516
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

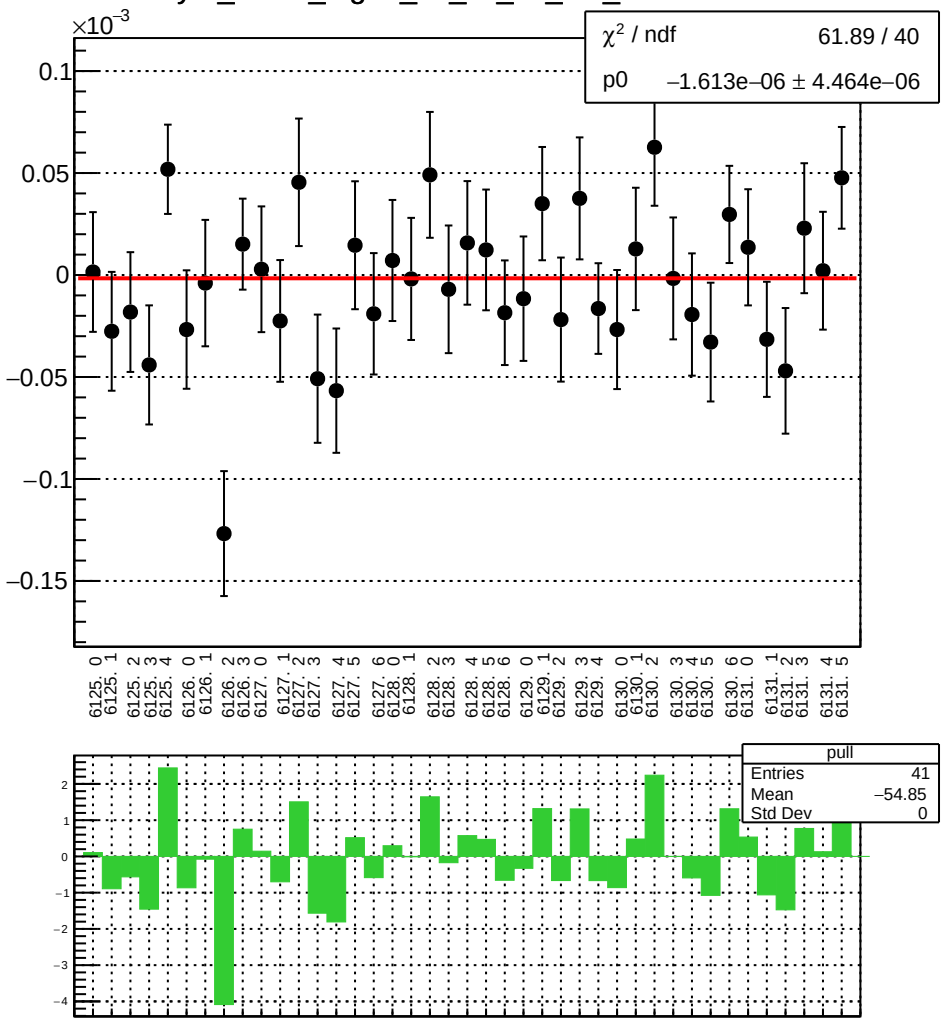

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 3.448e+05 / 40
p0 2.445e−11 ± 3.607e−14
0.05
0.04
0.03
0.02
0.01
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

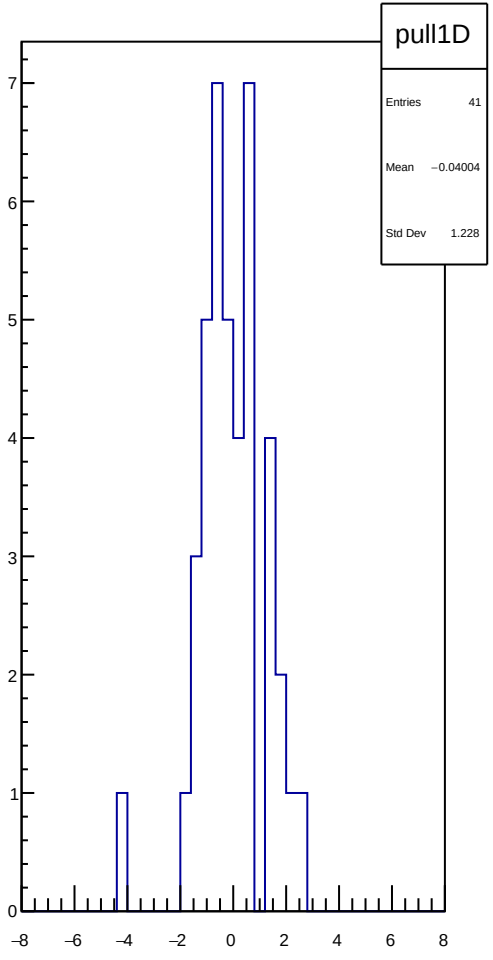

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 37.1 / 40
p0 0.07901 ± 0.05706
pull
Entries 41
Mean −28.45
Std Dev 0
pull1D
Entries 41
Mean 0.02792
Std Dev 0.9508

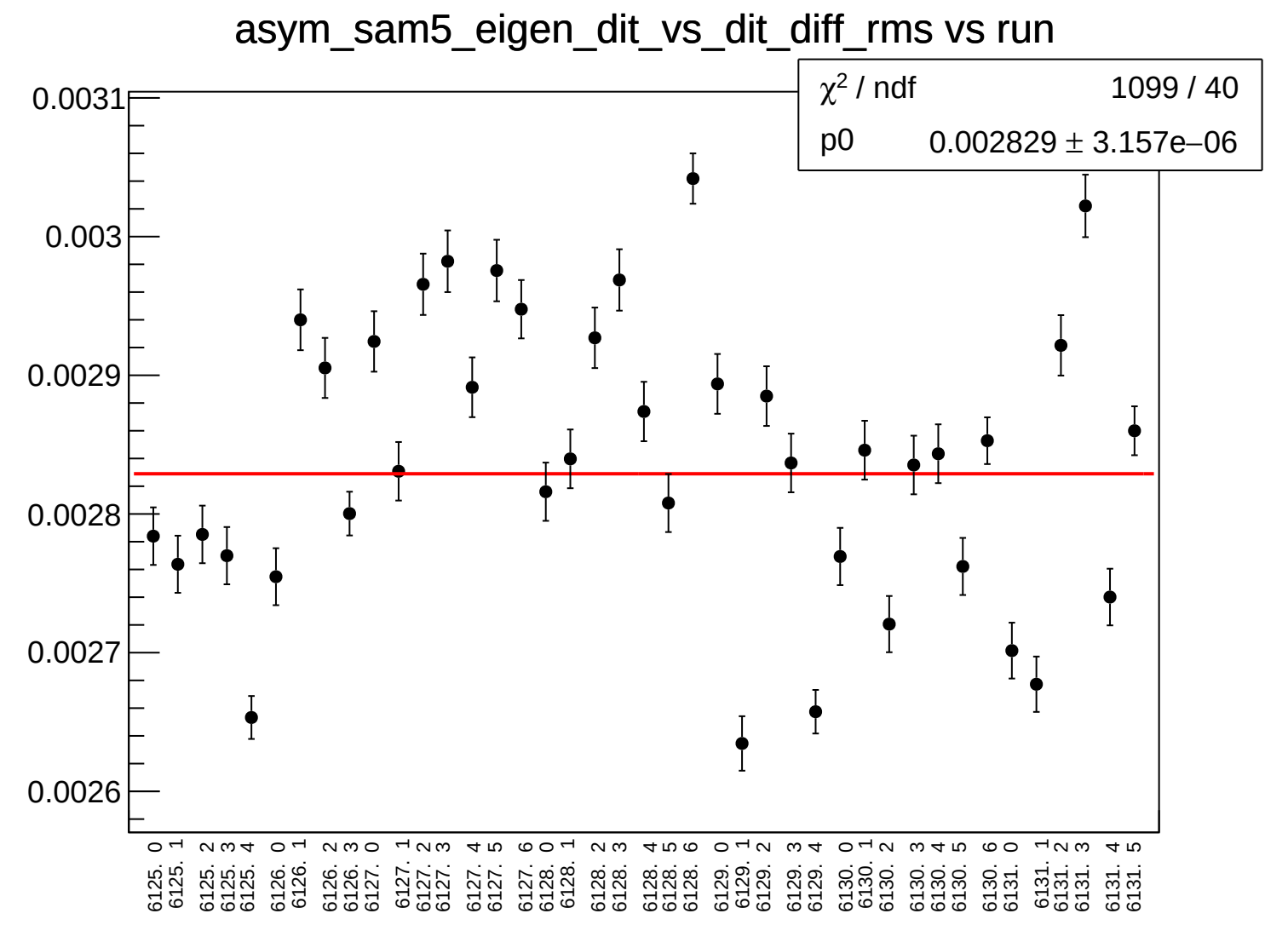

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 1.396e+04 / 40
p0 35.87 ± 0.04035
50
45
40
35
30
25
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

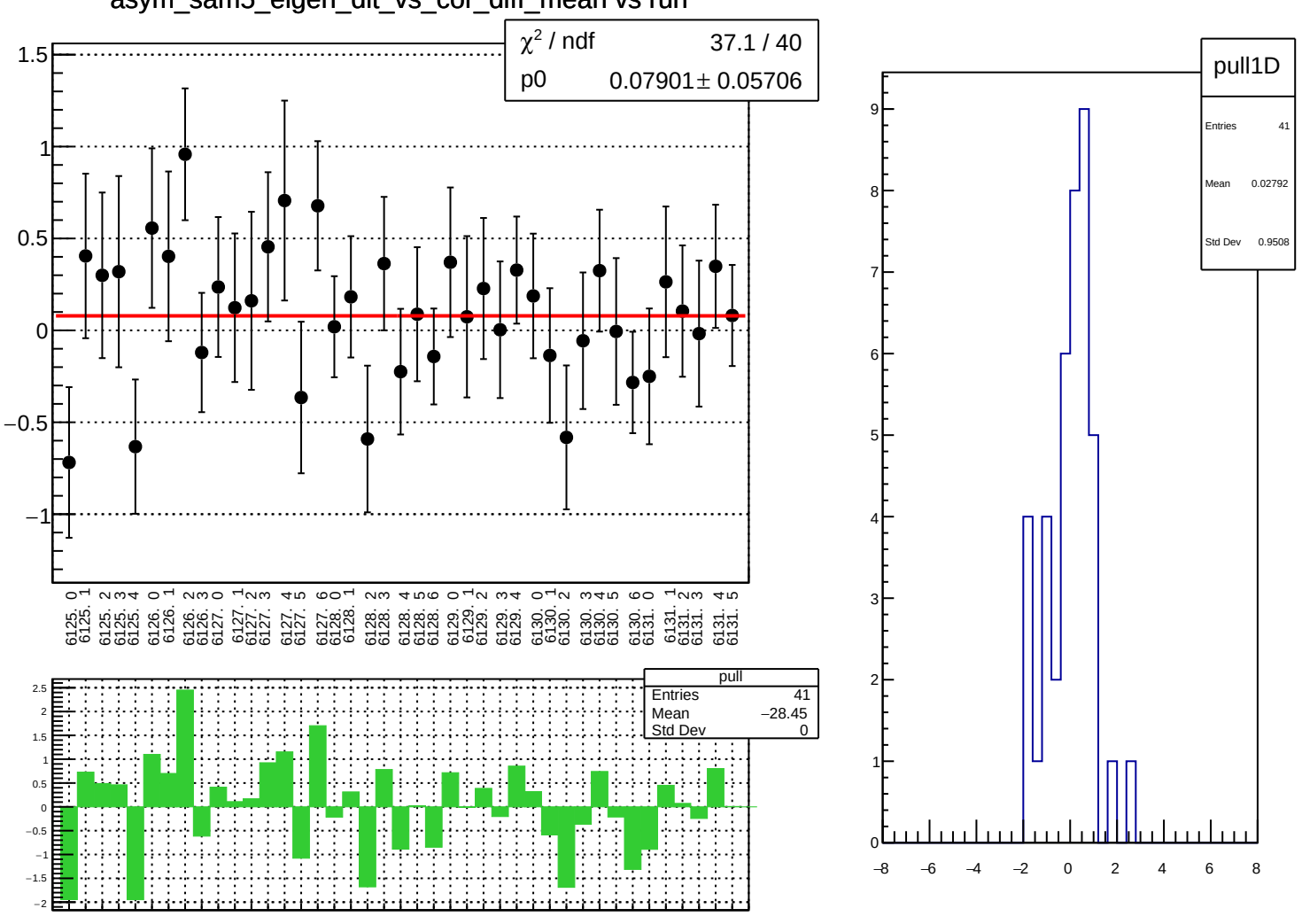

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.1 / 40
p0 0.07901 ± 0.05706
pull
Entries 41
Mean −28.45
Std Dev 0
pull1D
Entries 41
Mean 0.02792
Std Dev 0.9508

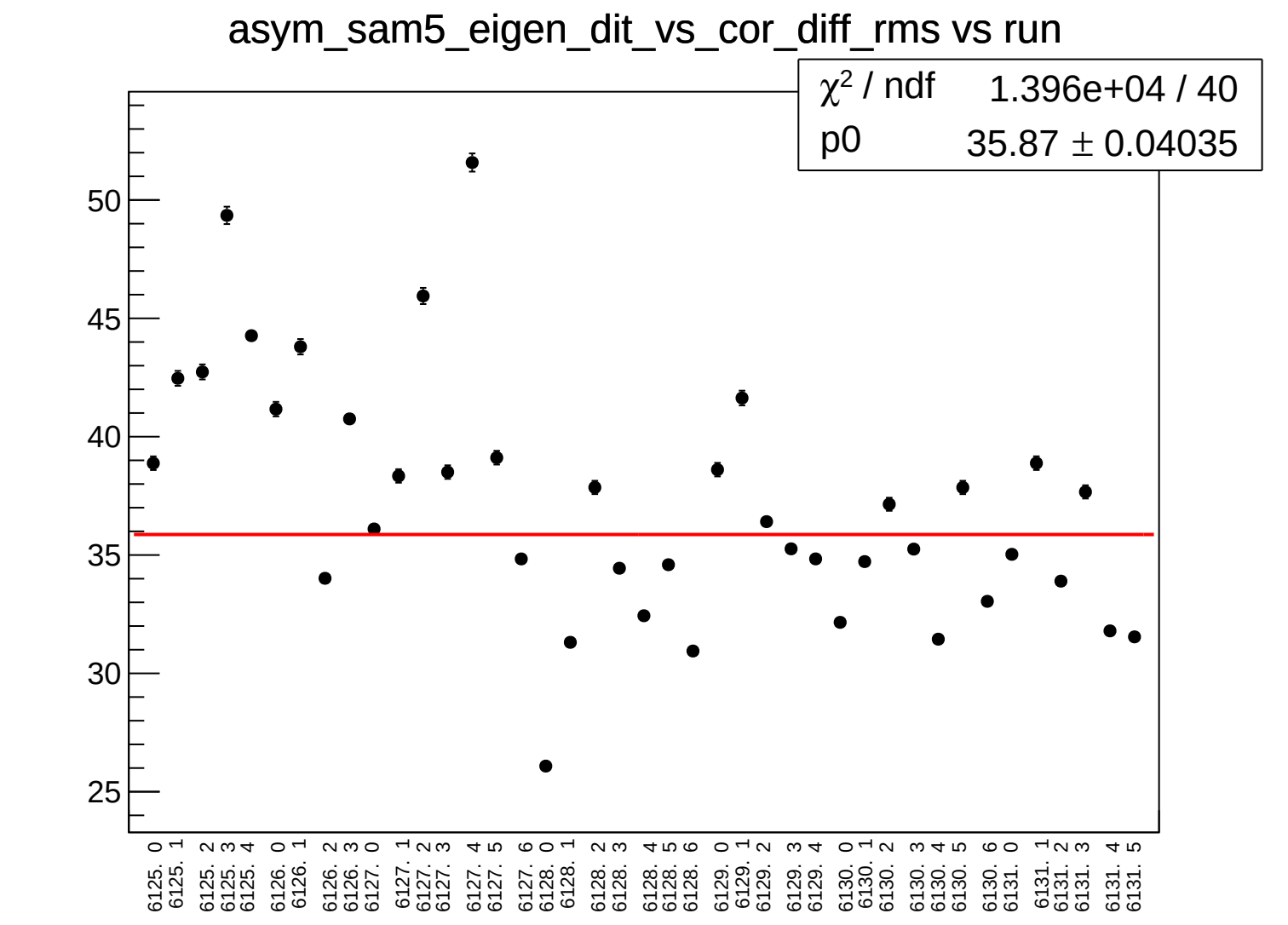

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.396e+04 / 40
p0 35.87 ± 0.04035
50
45
40
35
30
25
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 61.89 / 40
p0 −1.613e−06 ± 4.464e−06
0.1
0.05
0
−0.05
−0.1
−0.15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −54.85
Std Dev 0
2
1
0
−1
−2
−3
−4


pull1D
Entries 41
Mean −0.04004
Std Dev 1.228
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1099 / 40
p0 0.002829 ± 3.157e−06
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.1 / 40
p0 0.07901 ± 0.05706
pull
Entries 41
Mean −28.45
Std Dev 0
pull1D
Entries 41
Mean 0.02792
Std Dev 0.9508


asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.396e+04 / 40
p0 35.87 ± 0.04035
50
45
40
35
30
25
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
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6127. 0
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6130. 2
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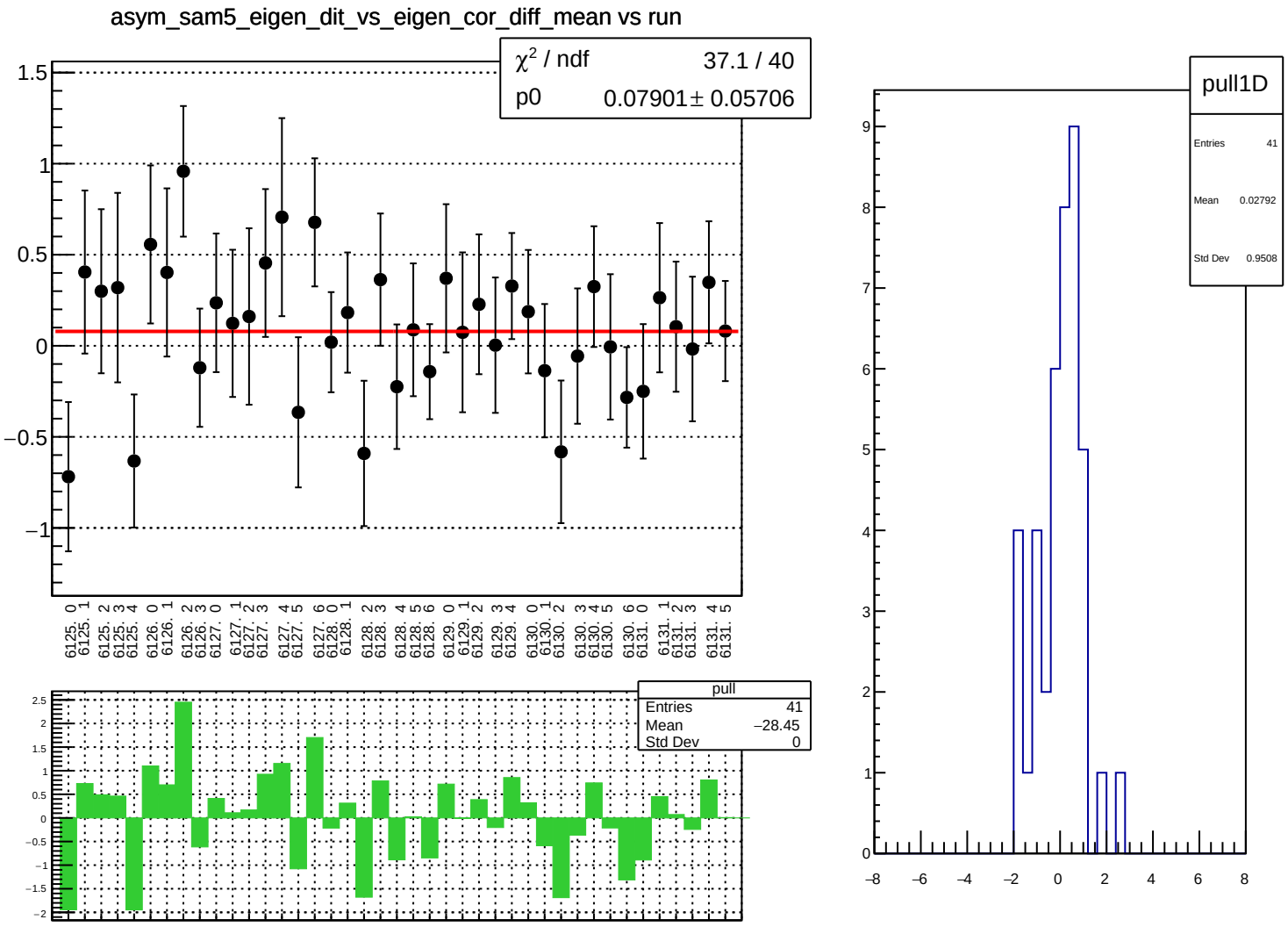
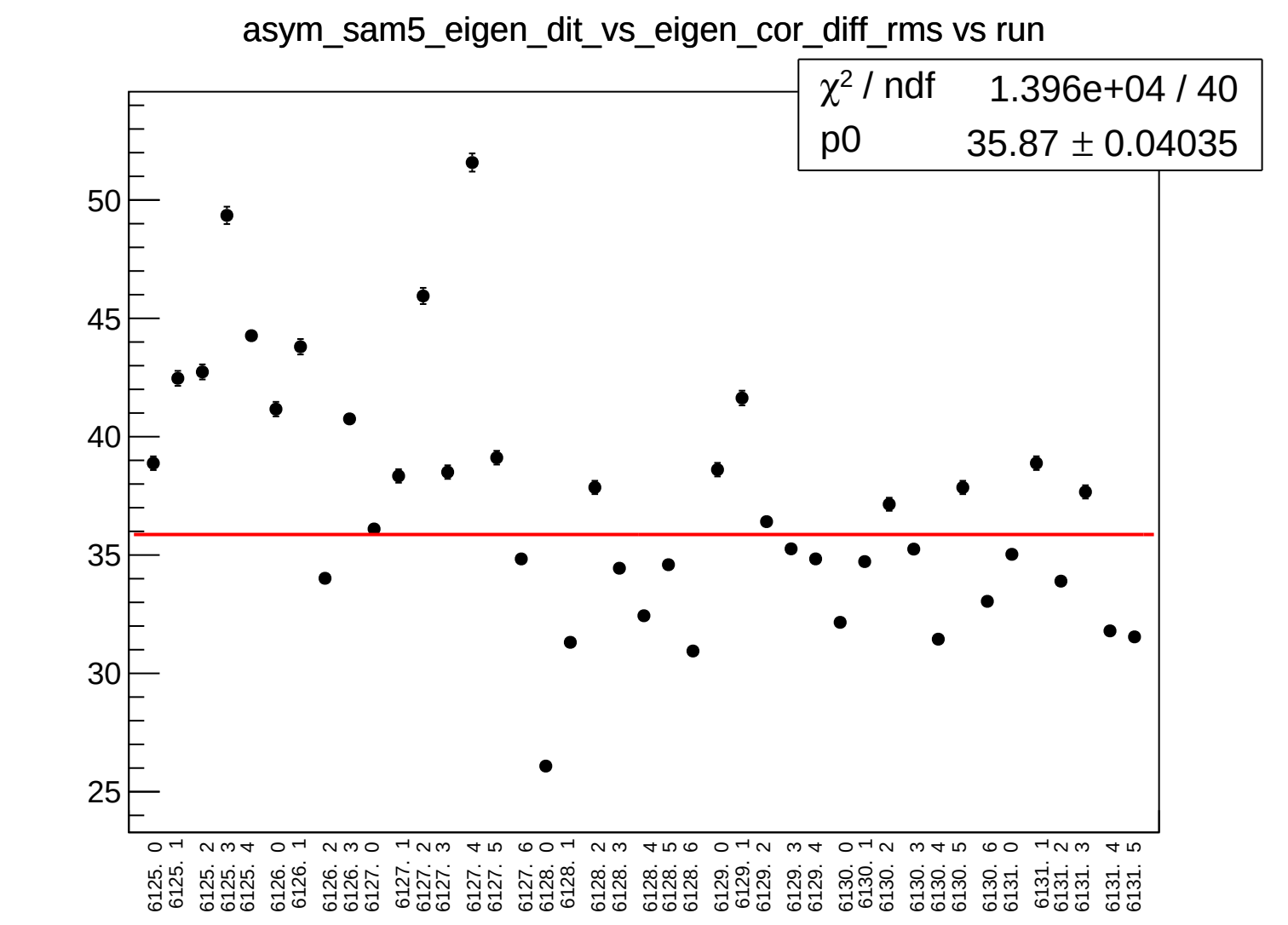
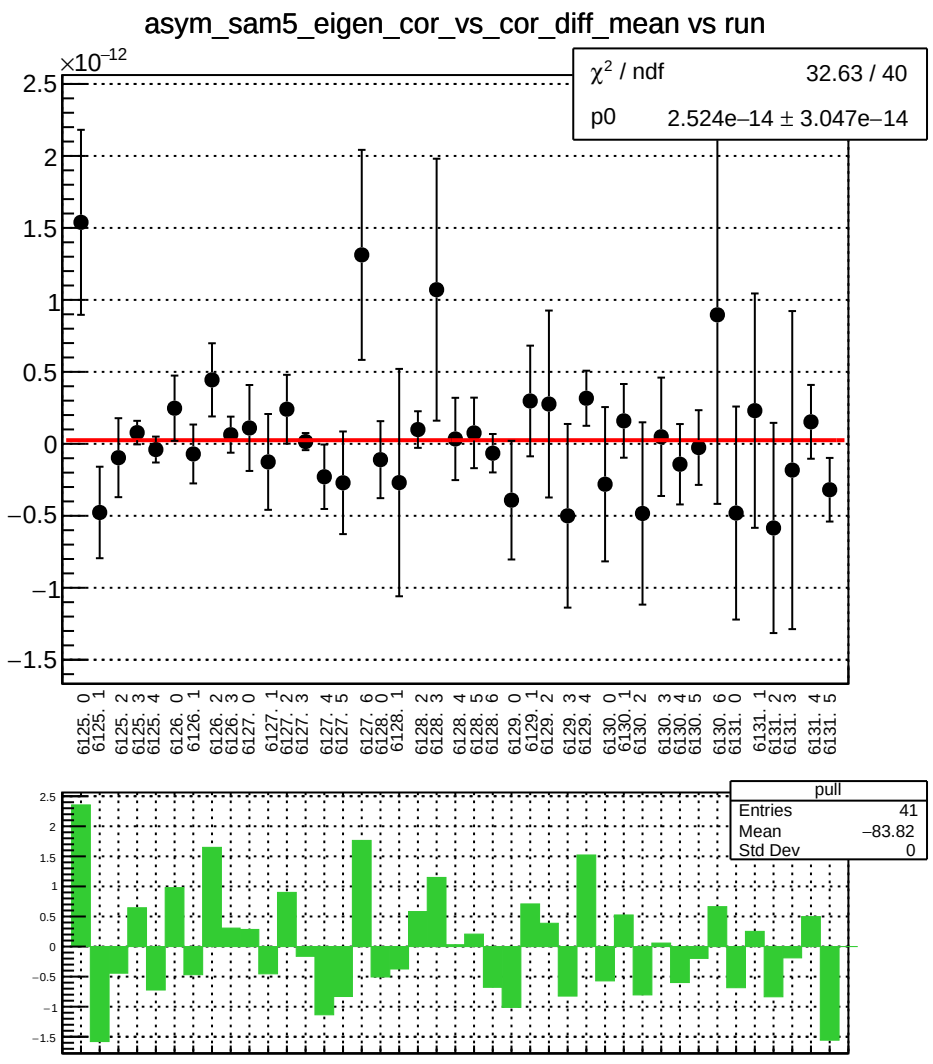
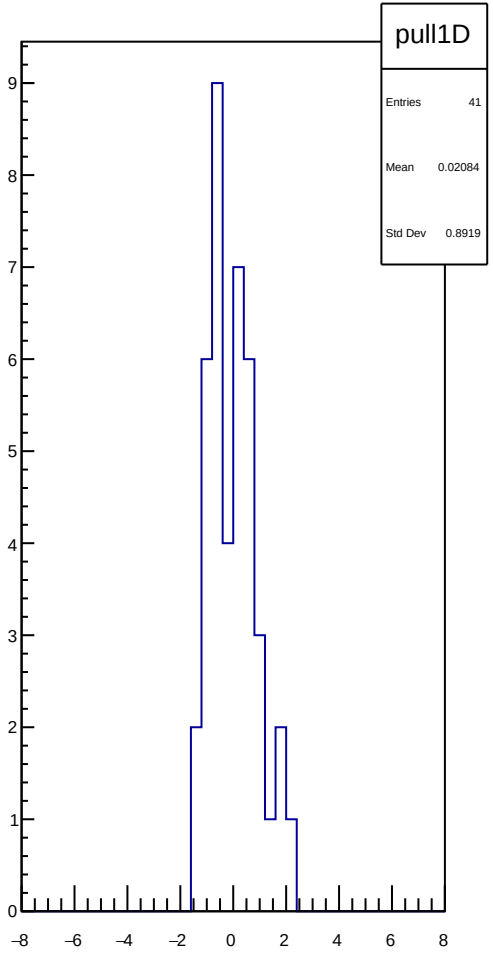
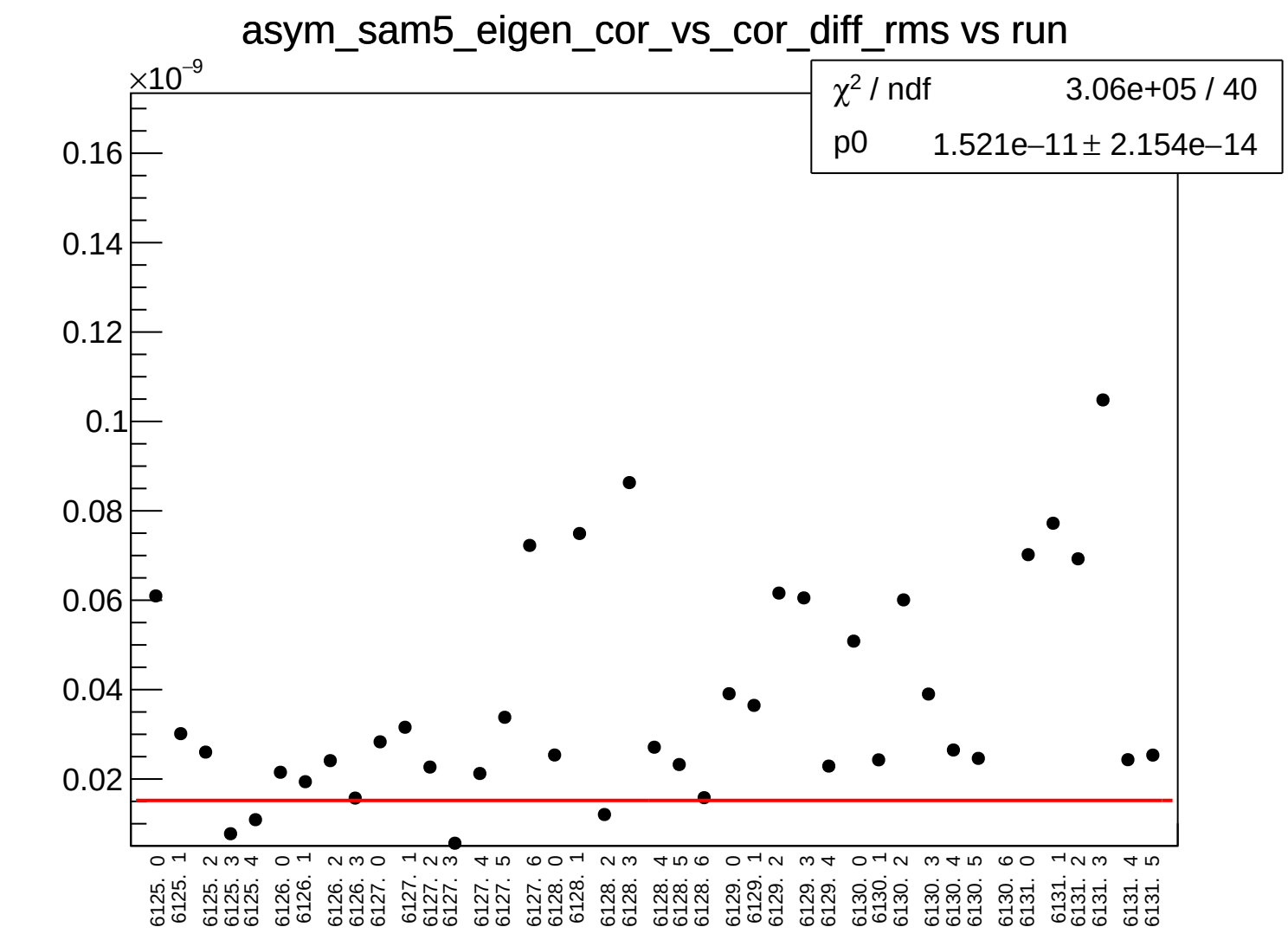
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

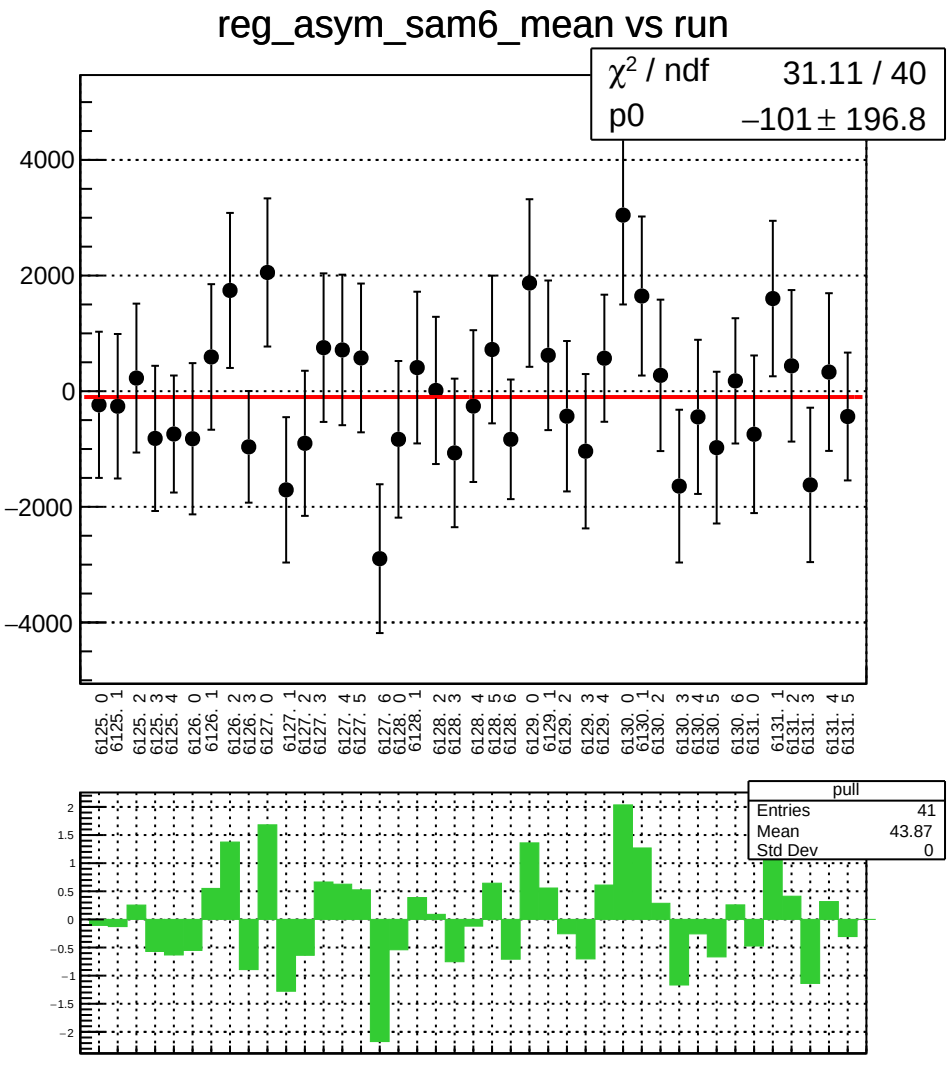

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.1 / 40
p0 0.07901 ± 0.05706
1.5
1
0.5
0
−0.5
−1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −28.45
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.02792
Std Dev 0.9508
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

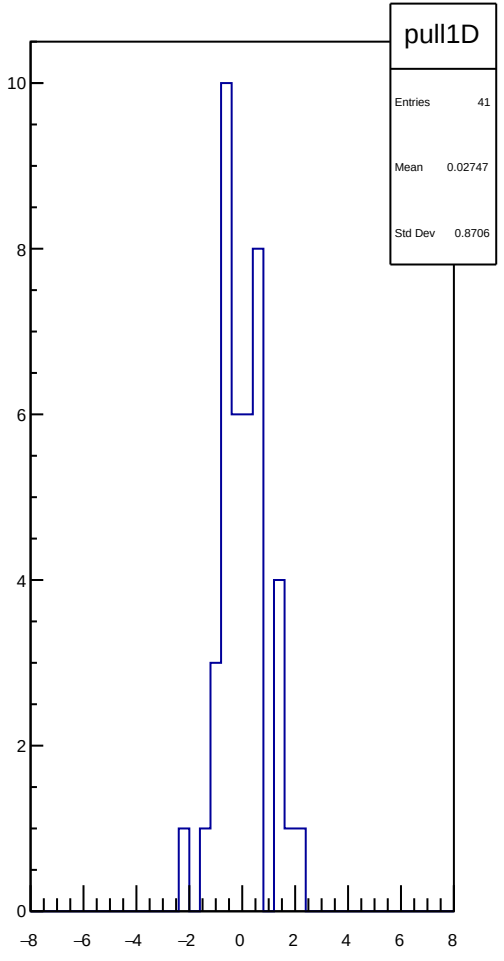

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.396e+04 / 40
p0 35.87 ± 0.04035
50
45
40
35
30
25
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

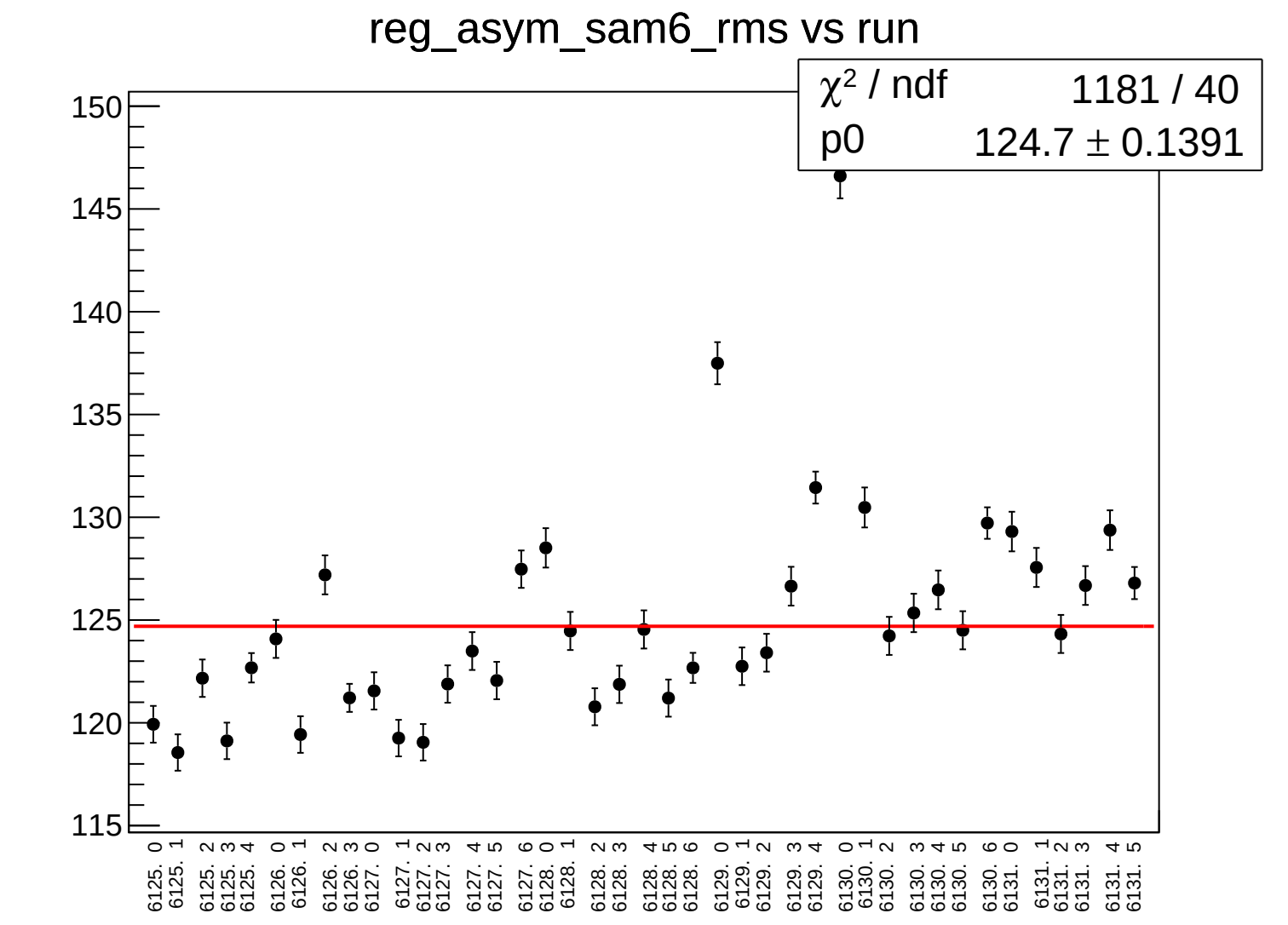

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.63 / 40
p0 2.524e−14 ± 3.047e−14
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −83.82
Std Dev 0

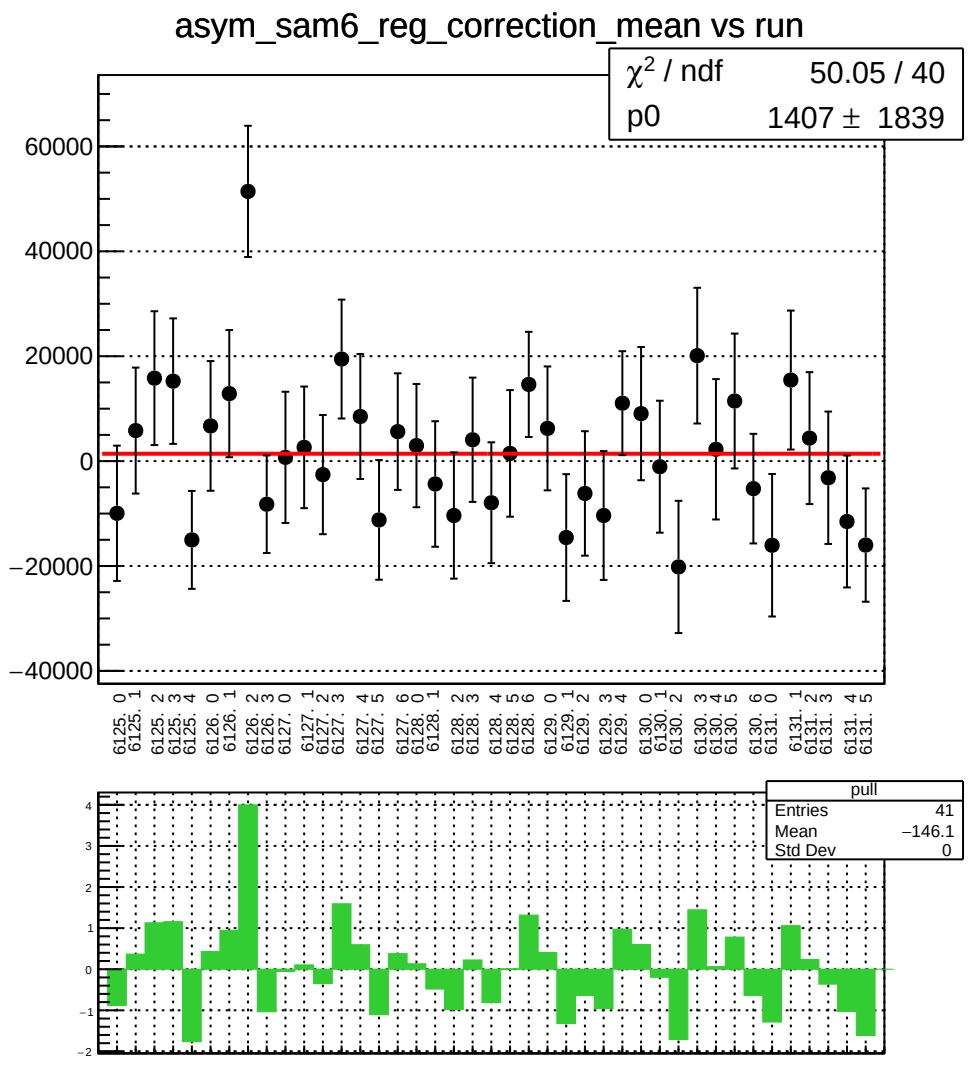

pull1D
Entries 41
Mean 0.02084
Std Dev 0.8919
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

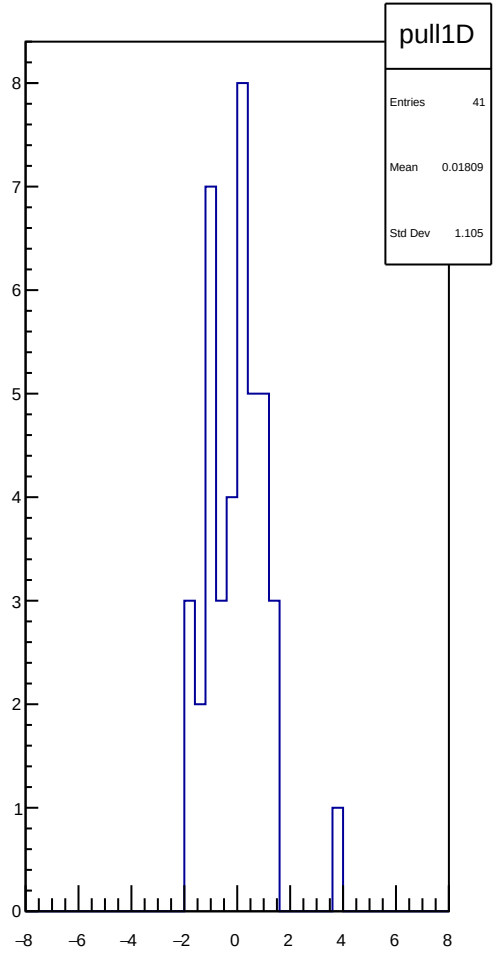

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.06e+05 / 40
p0 1.521e−11 ± 2.154e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

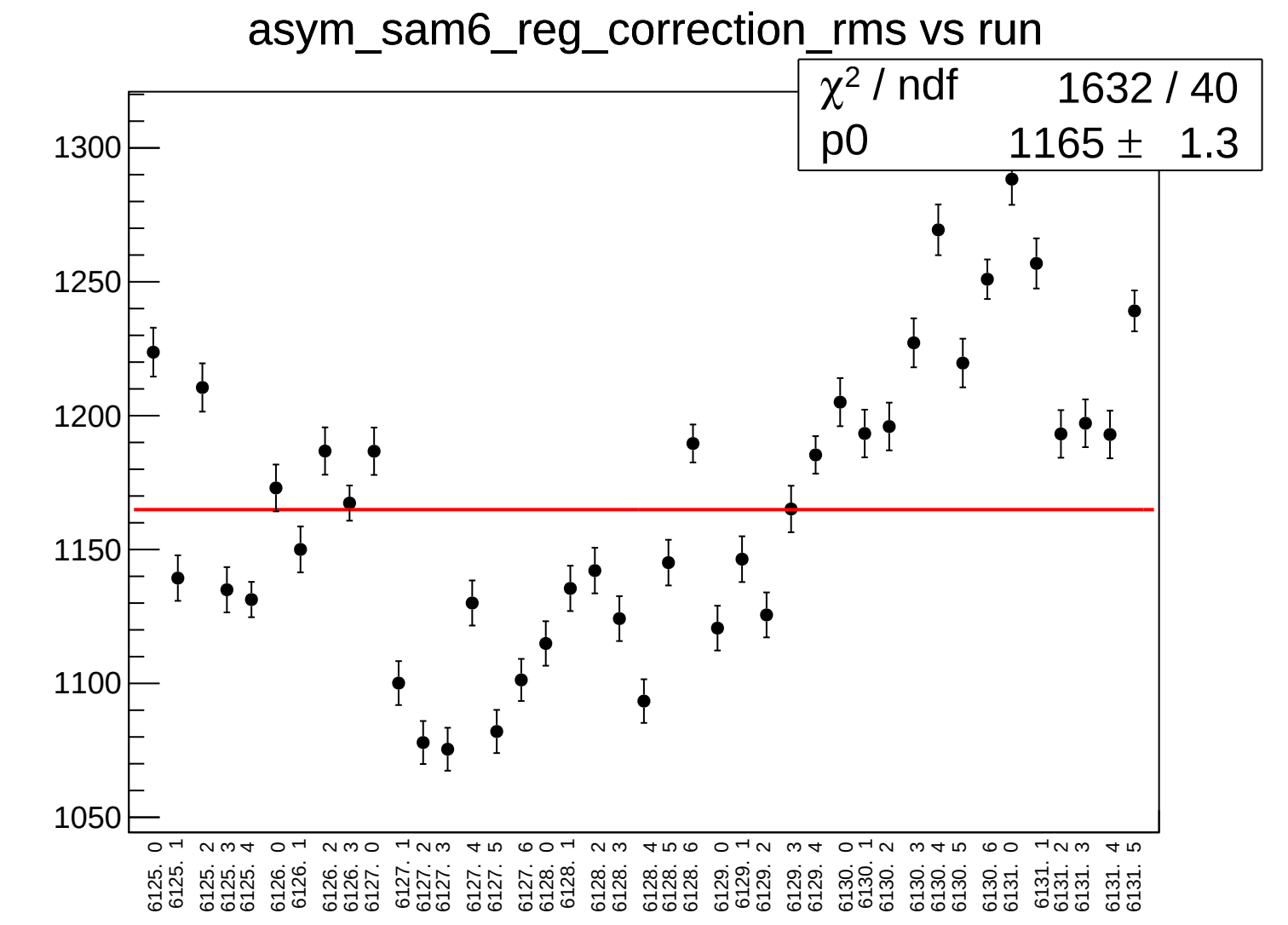

reg_asym_sam6_mean vs run
χ² / ndf 31.11 / 40
p0 −101 ± 196.8
4000
2000
0
−2000
−4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 43.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

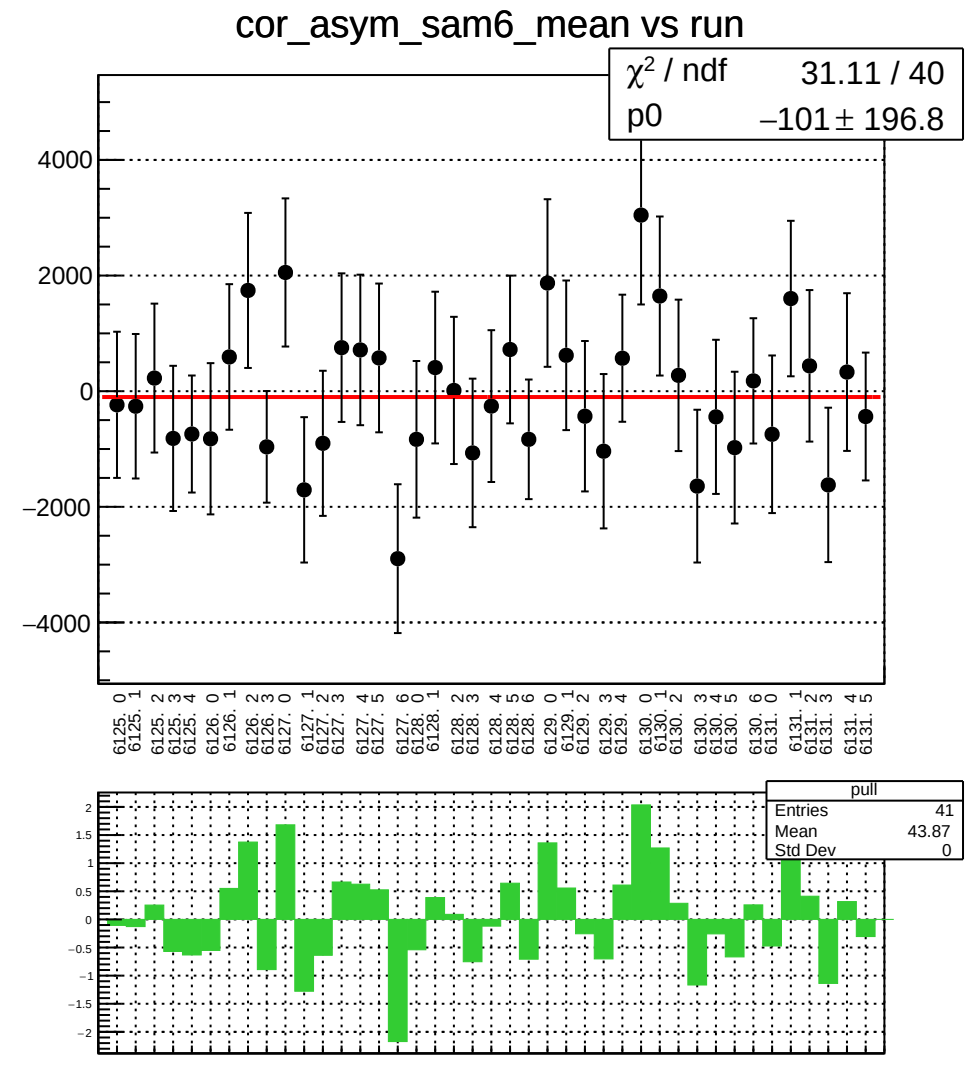

pull1D
Entries 41
Mean 0.02747
Std Dev 0.8706
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

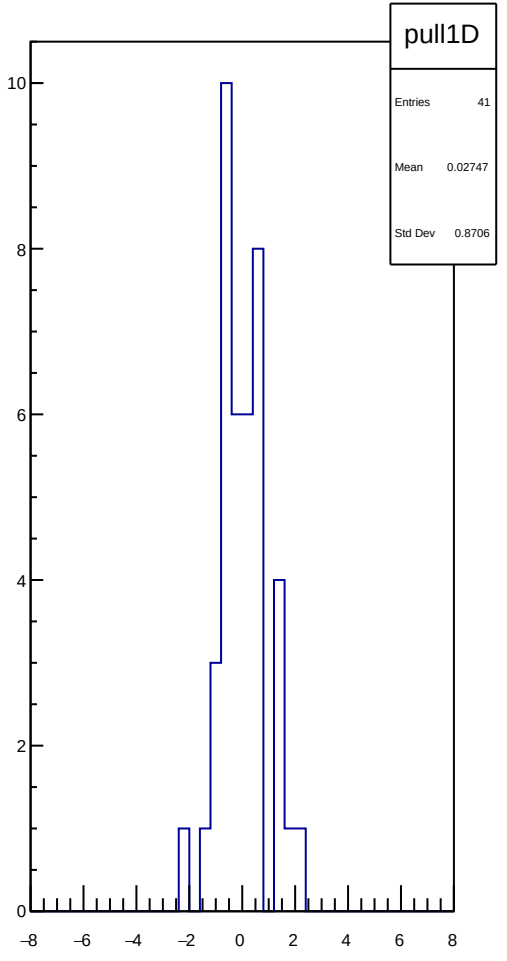

reg_asym_sam6_rms vs run
χ² / ndf 1181 / 40
p0 124.7 ± 0.1391
150
145
140
135
130
125
120
115
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

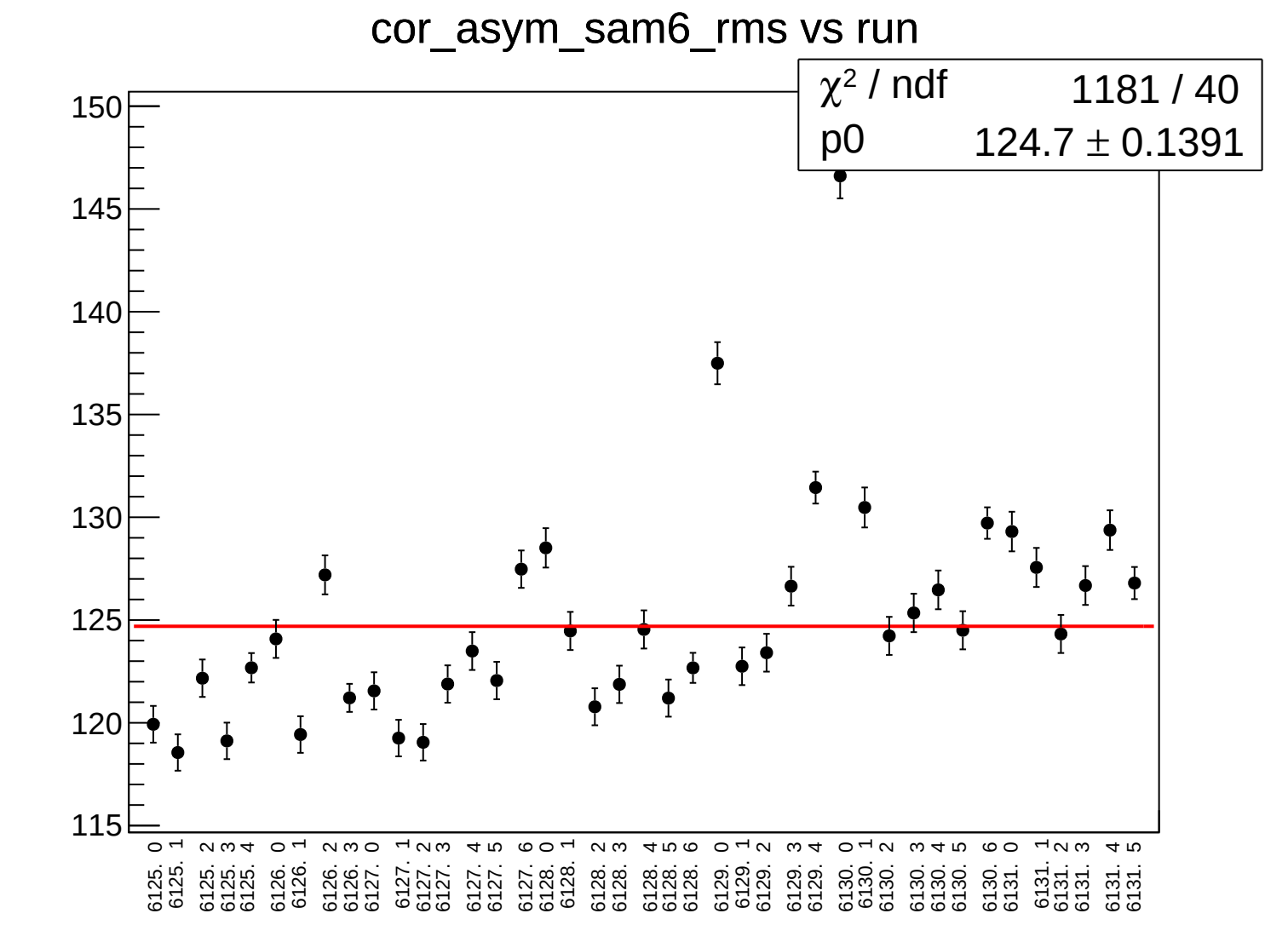

asym_sam6_reg_correction_mean vs run
χ² / ndf 50.05 / 40
p0 1407 ± 1839
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −146.1
Std Dev 0
4
3
2
1
0
−1
−2

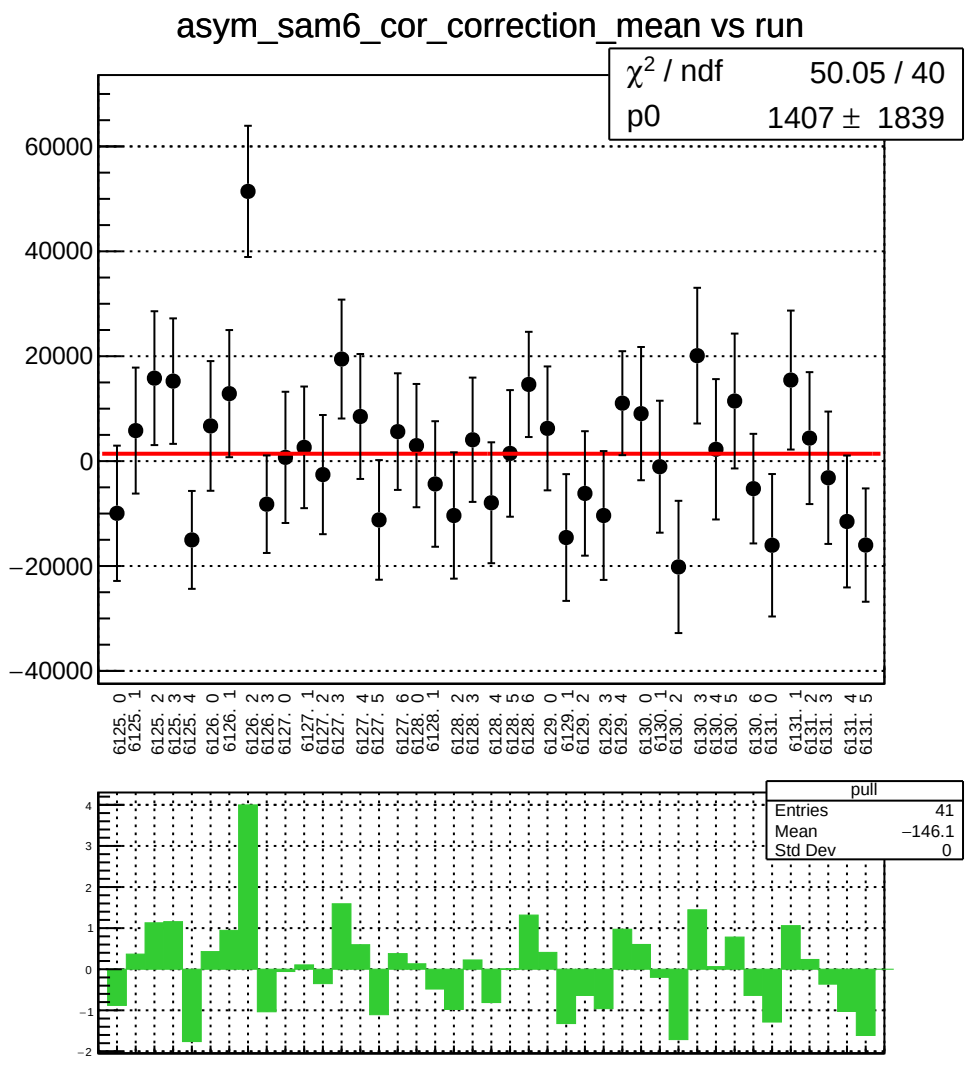

pull1D
Entries 41
Mean 0.01809
Std Dev 1.105
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

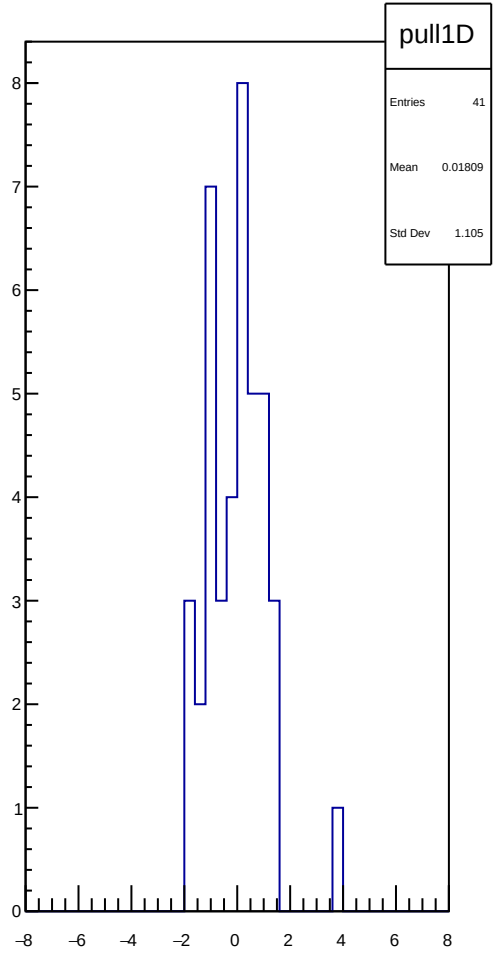

asym_sam6_reg_correction_rms vs run
χ² / ndf 1632 / 40
p0 1165 ± 1.3
1300
1250
1200
1150
1100
1050
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

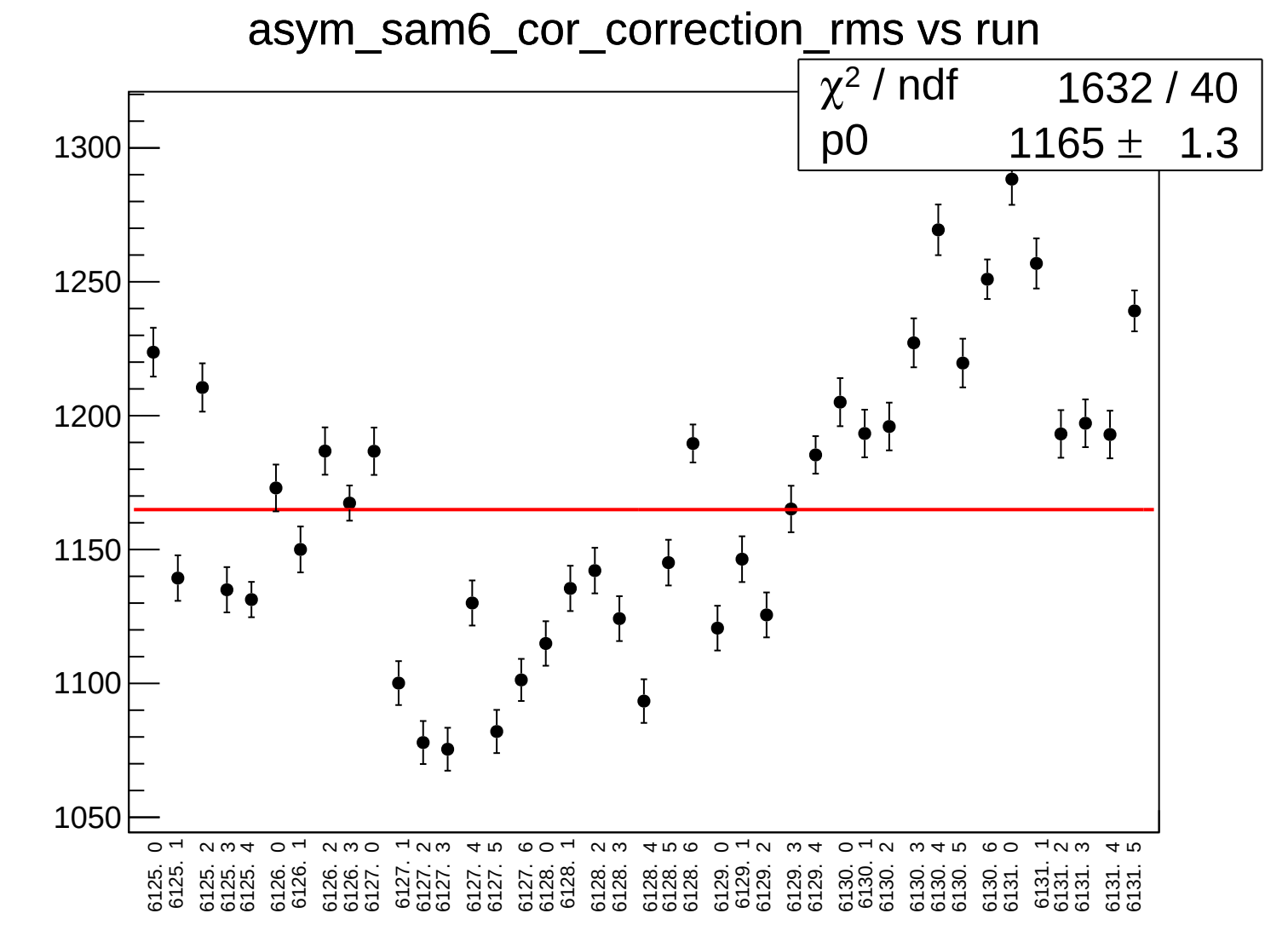

cor_asym_sam6_mean vs run
χ² / ndf 31.11 / 40
p0 −101 ± 196.8
4000
2000
0
−2000
−4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 43.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

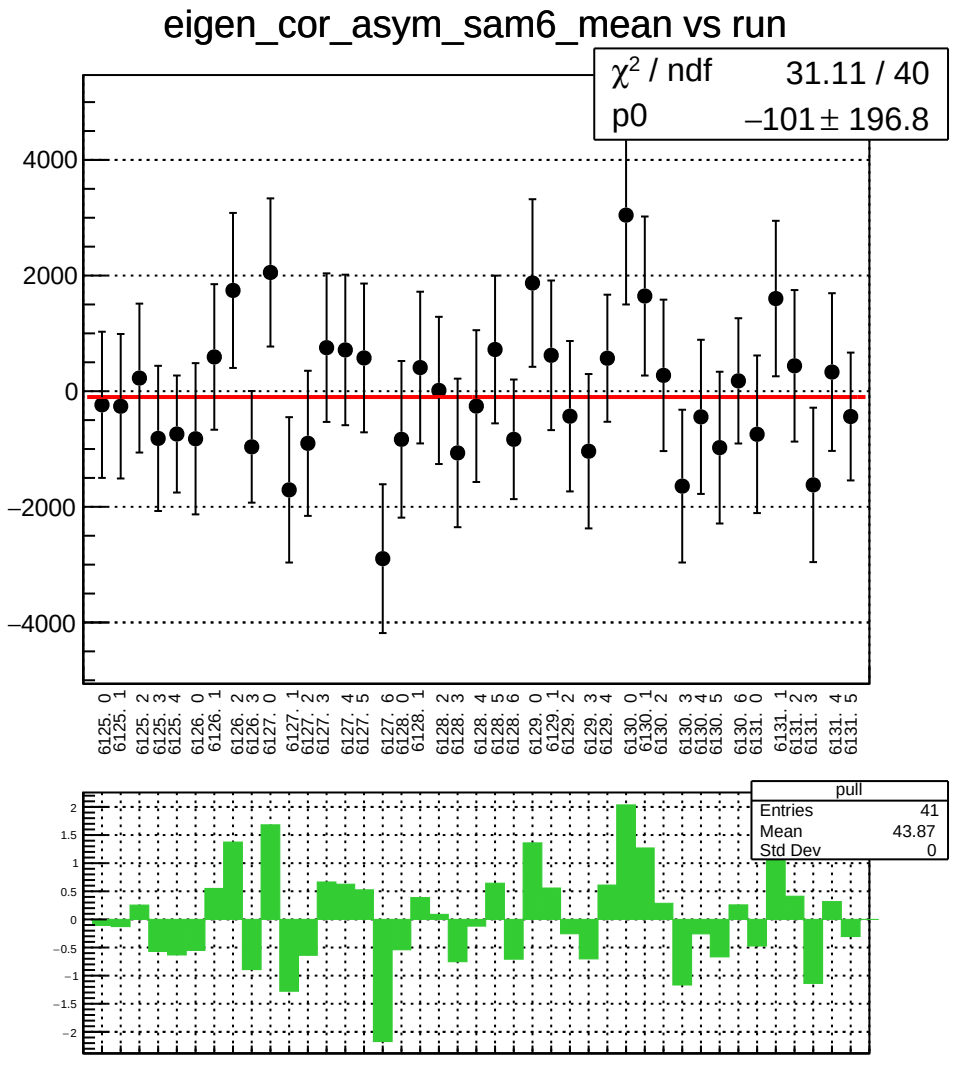

pull1D
Entries 41
Mean 0.02747
Std Dev 0.8706
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

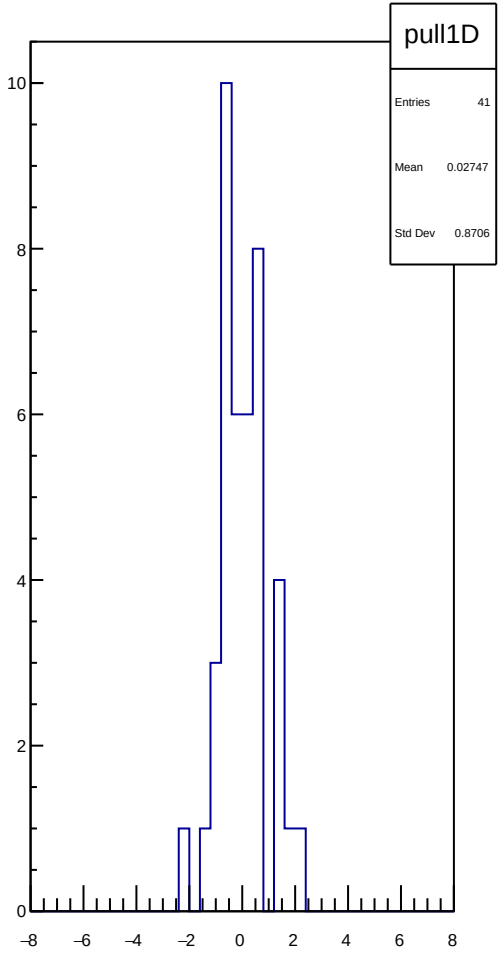

cor_asym_sam6_rms vs run
χ² / ndf 1181 / 40
p0 124.7 ± 0.1391
150
145
140
135
130
125
120
115
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

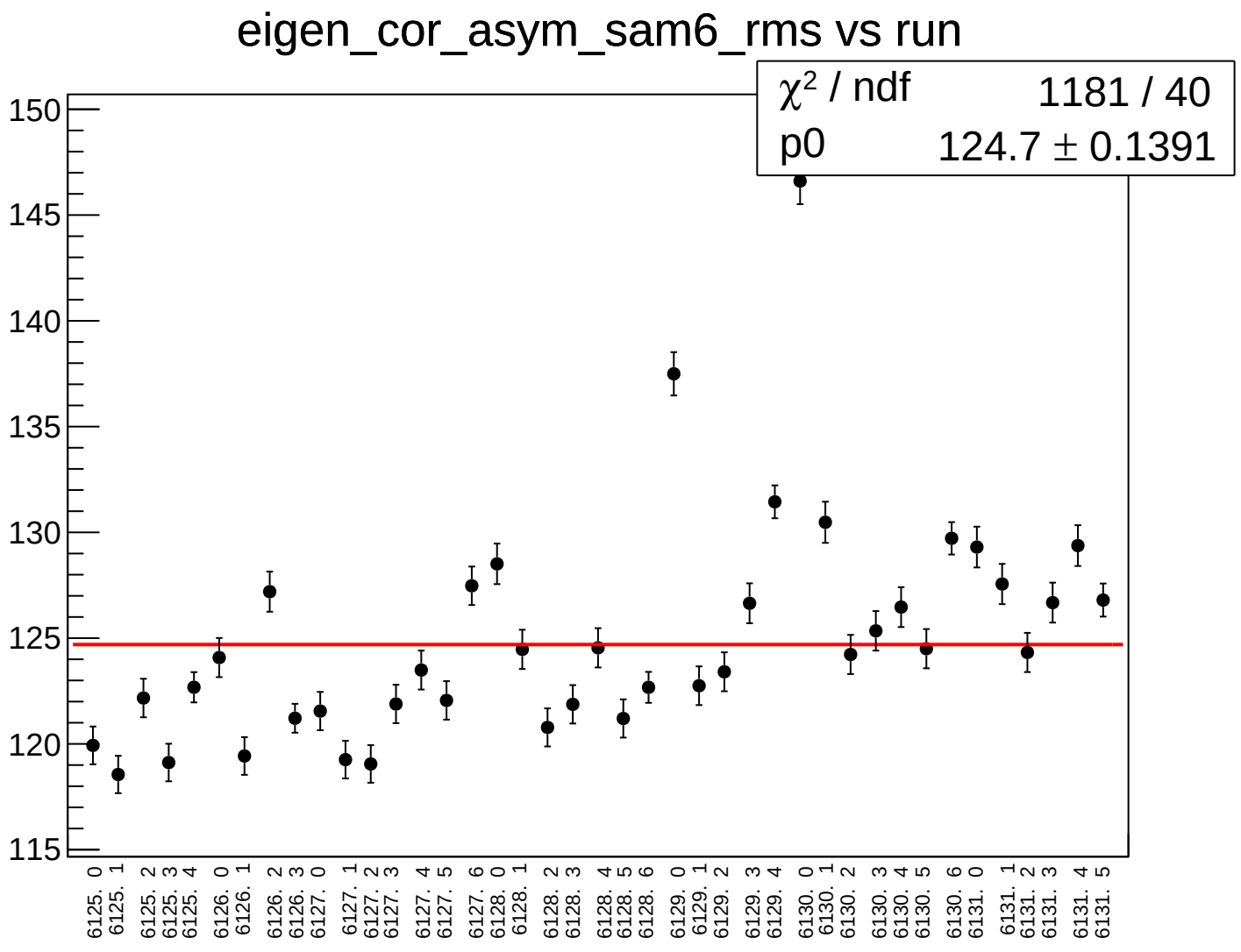

asym_sam6_cor_correction_mean vs run
χ² / ndf 50.05 / 40
p0 1407 ± 1839
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −146.1
Std Dev 0
4
3
2
1
0
−1
−2

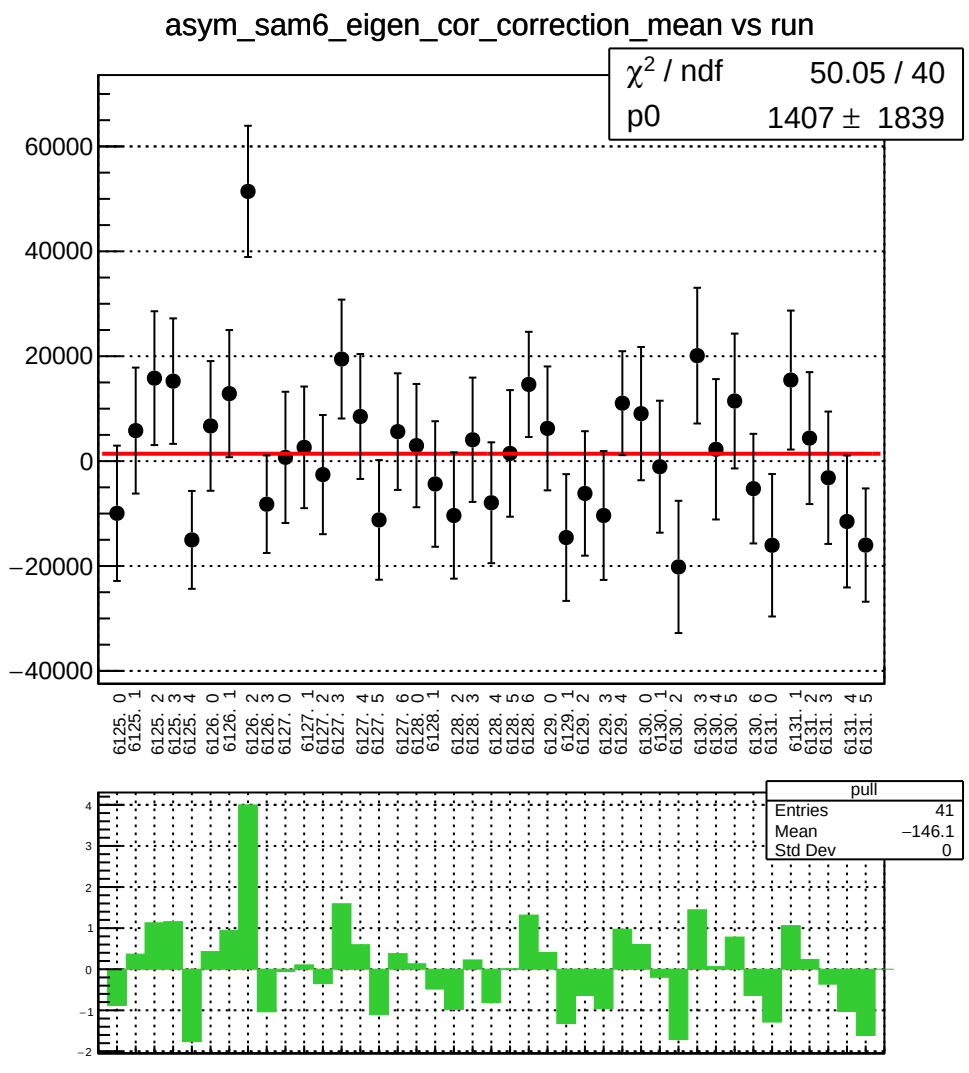

pull1D
Entries 41
Mean 0.01809
Std Dev 1.105
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

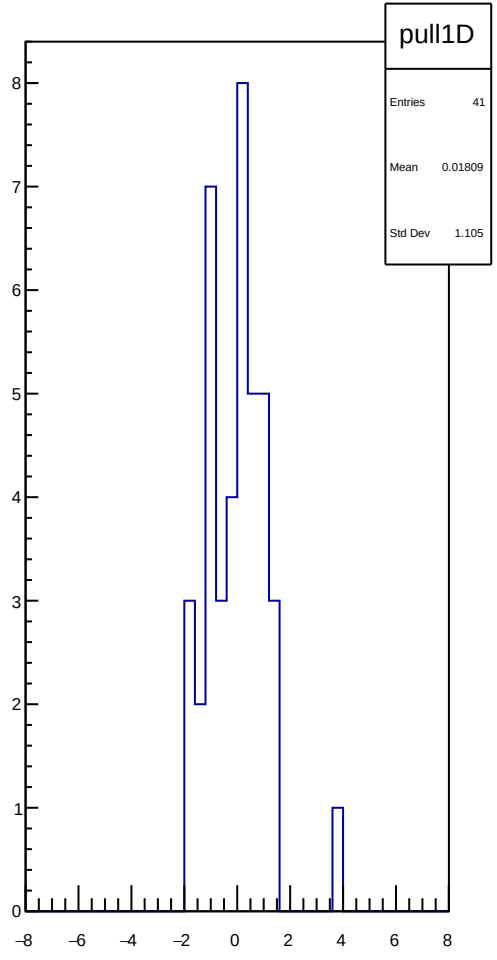

asym_sam6_cor_correction_rms vs run
χ² / ndf 1632 / 40
p0 1165 ± 1.3
1300
1250
1200
1150
1100
1050
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

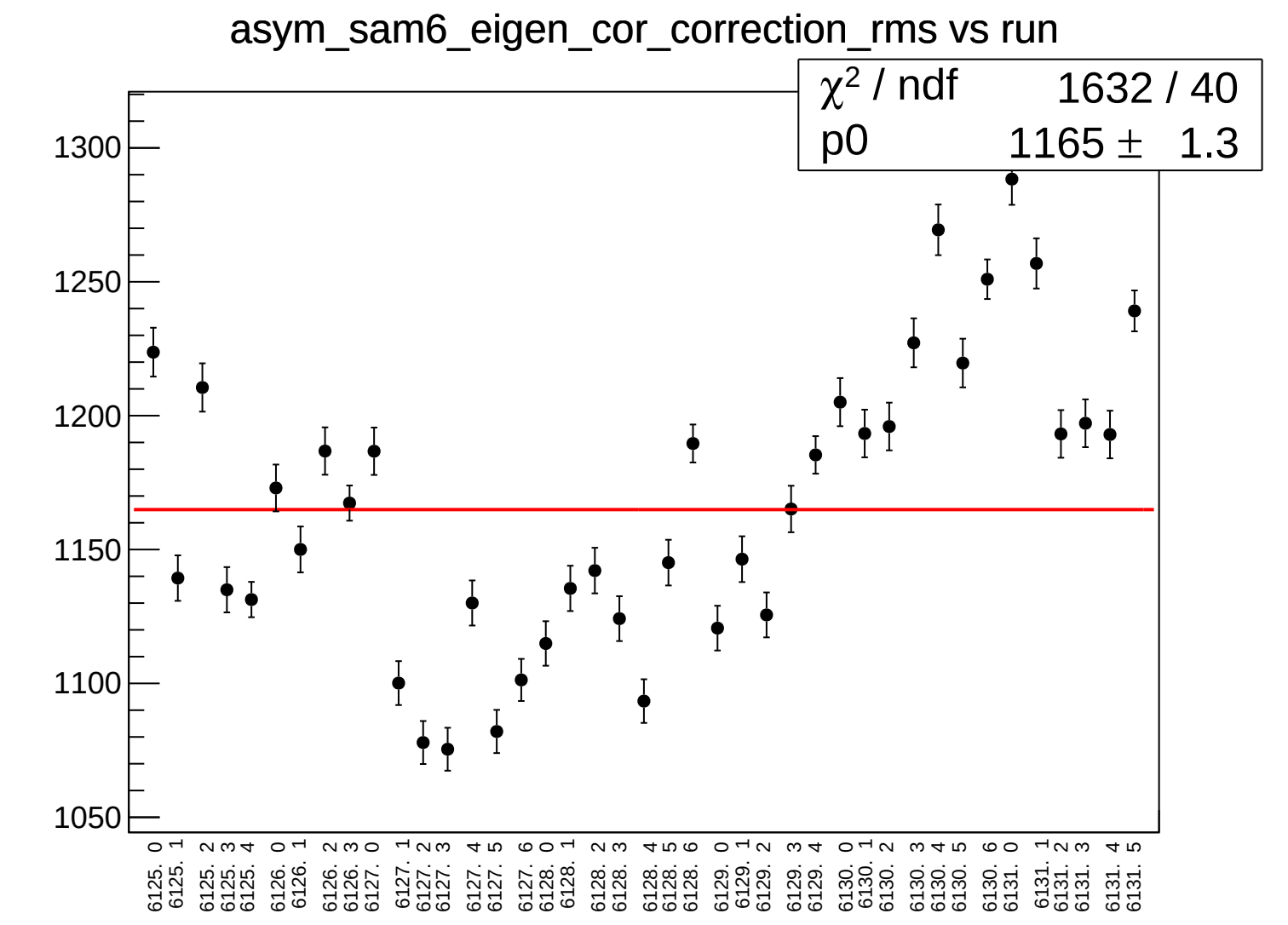

eigen_cor_asym_sam6_mean vs run
χ² / ndf 31.11 / 40
p0 −101 ± 196.8
4000
2000
0
−2000
−4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 43.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

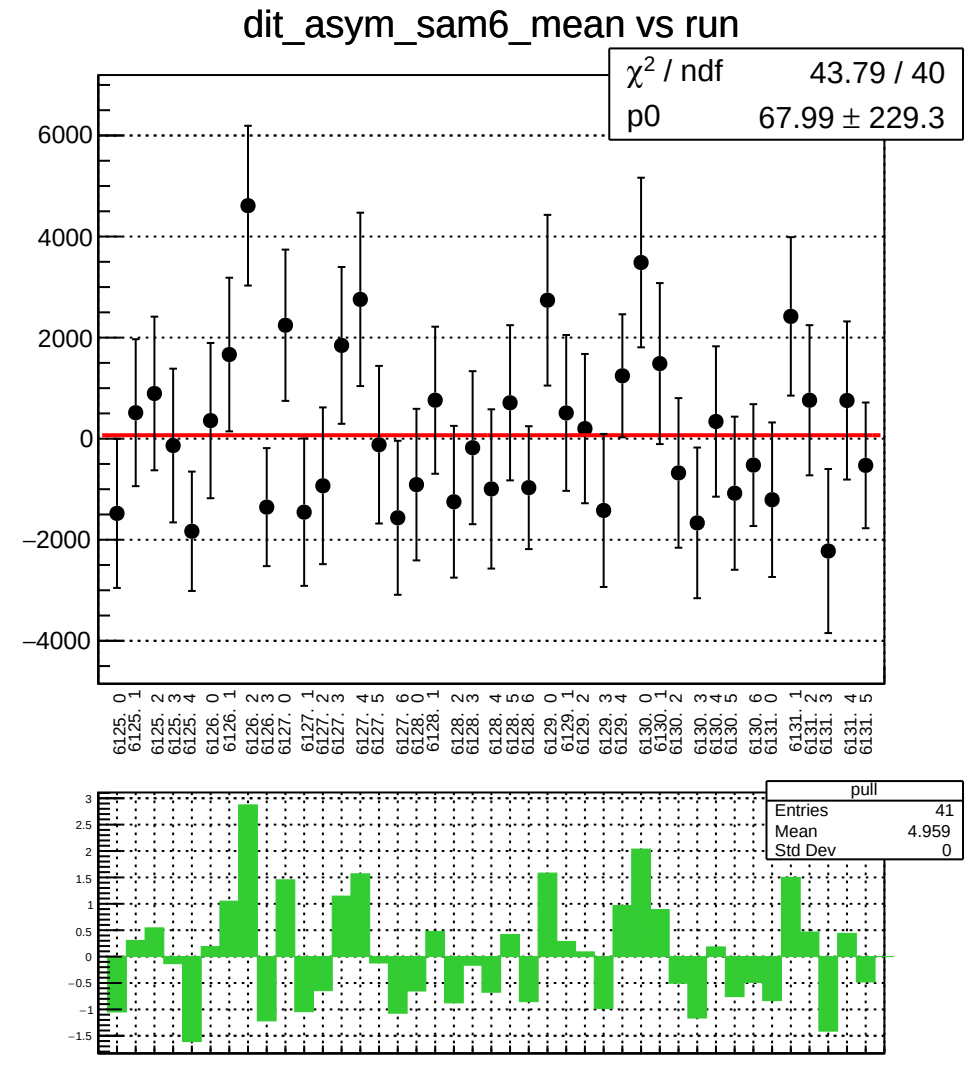

pull1D
Entries 41
Mean 0.02747
Std Dev 0.8706
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

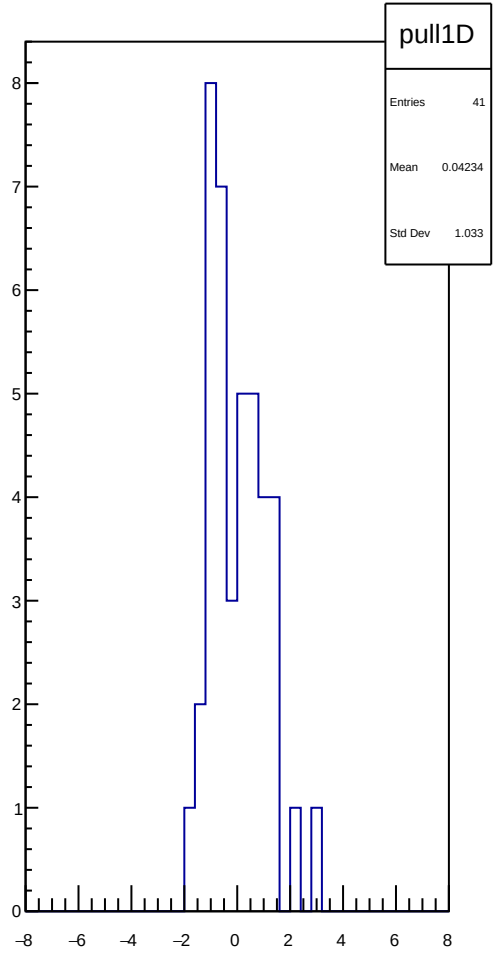

eigen_cor_asym_sam6_rms vs run
χ² / ndf 1181 / 40
p0 124.7 ± 0.1391
150
145
140
135
130
125
120
115
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

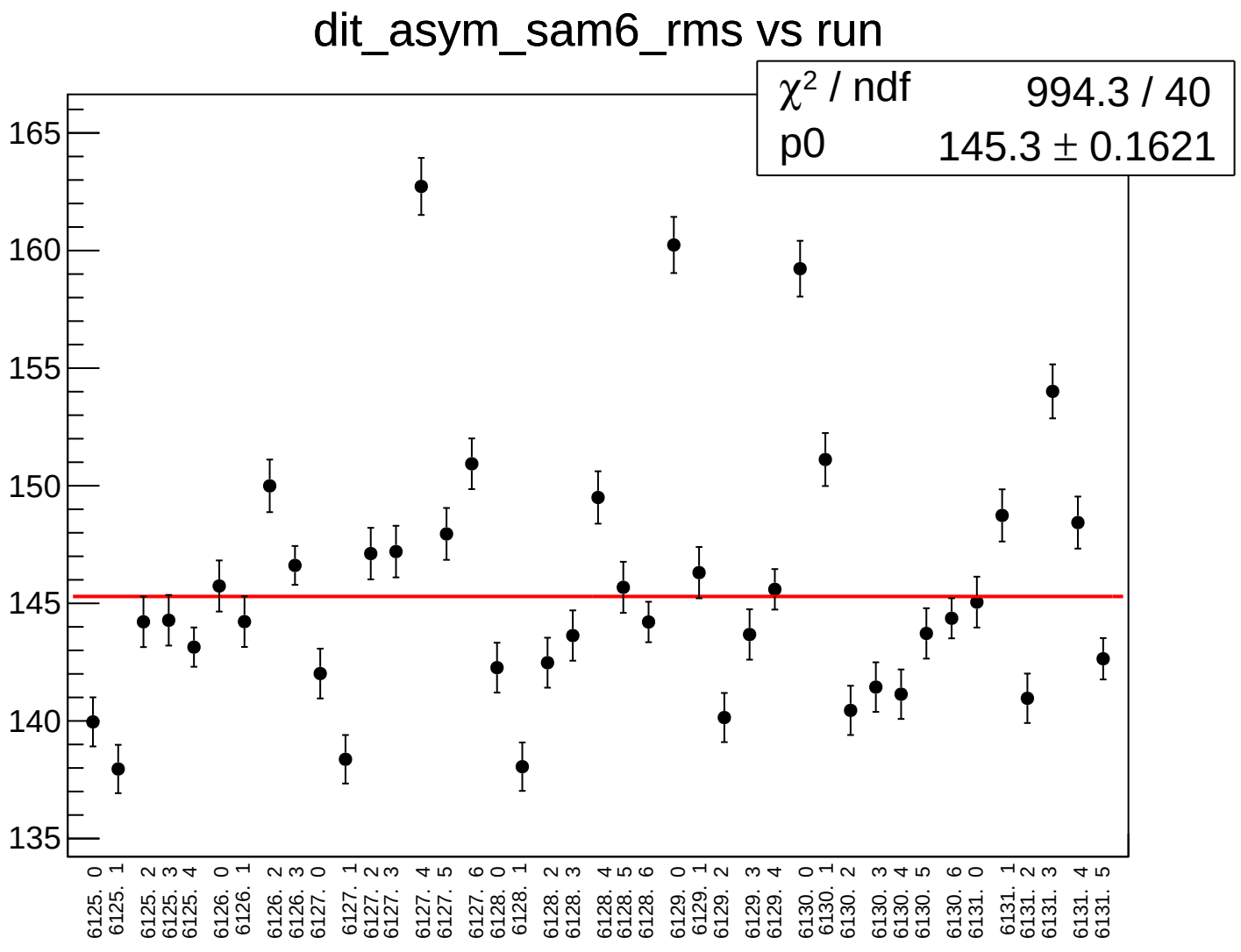

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 50.05 / 40
p0 1407 ± 1839
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −146.1
Std Dev 0
4
3
2
1
0
−1
−2

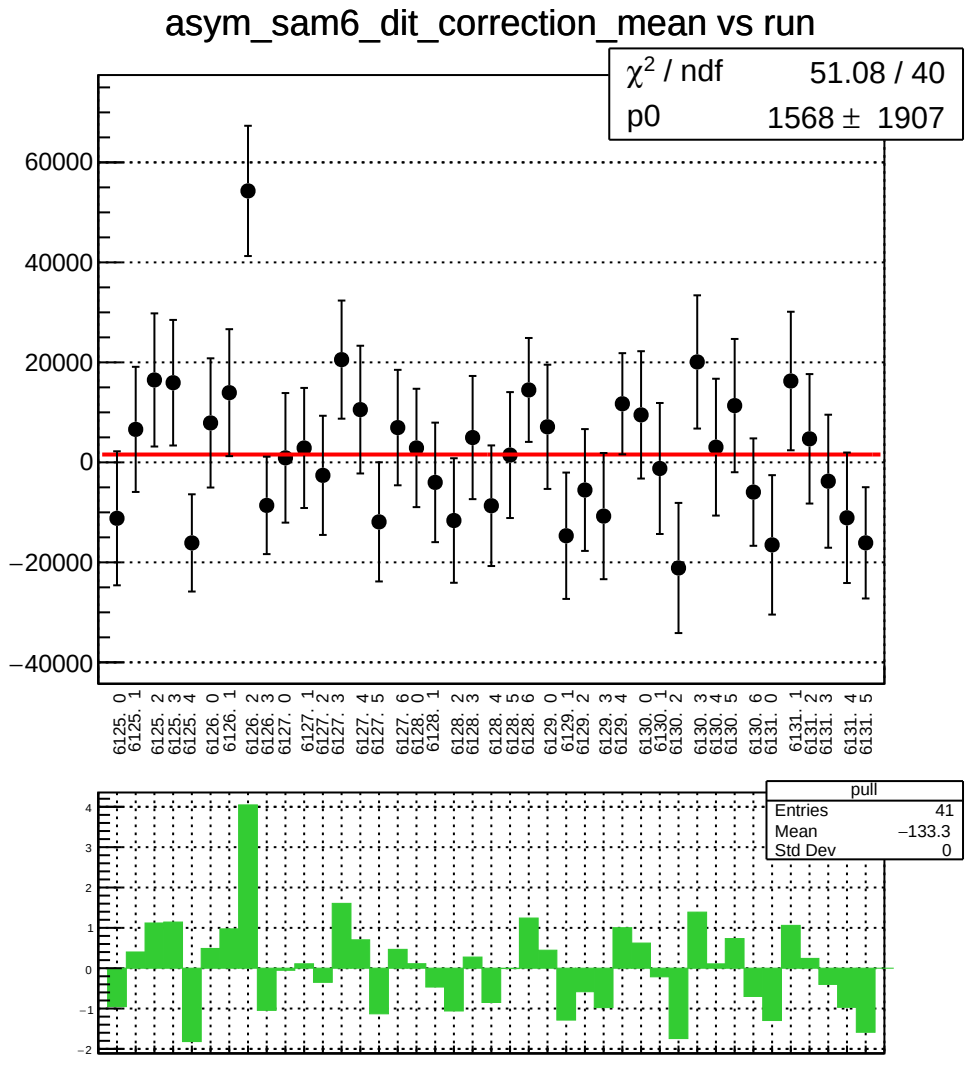

pull1D
Entries 41
Mean 0.01809
Std Dev 1.105
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

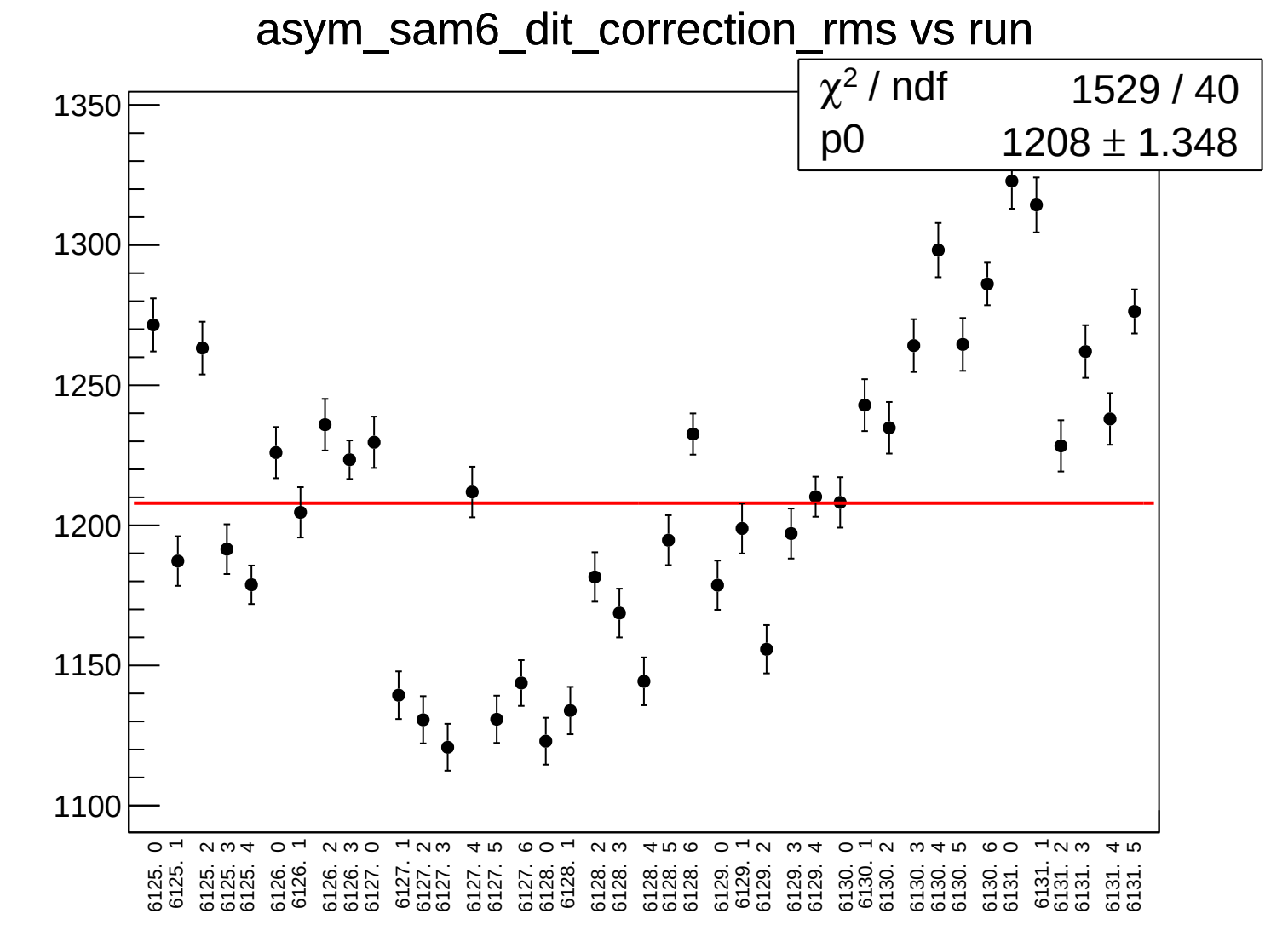

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 1632 / 40
p0 1165 ± 1.3
1300
1250
1200
1150
1100
1050
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

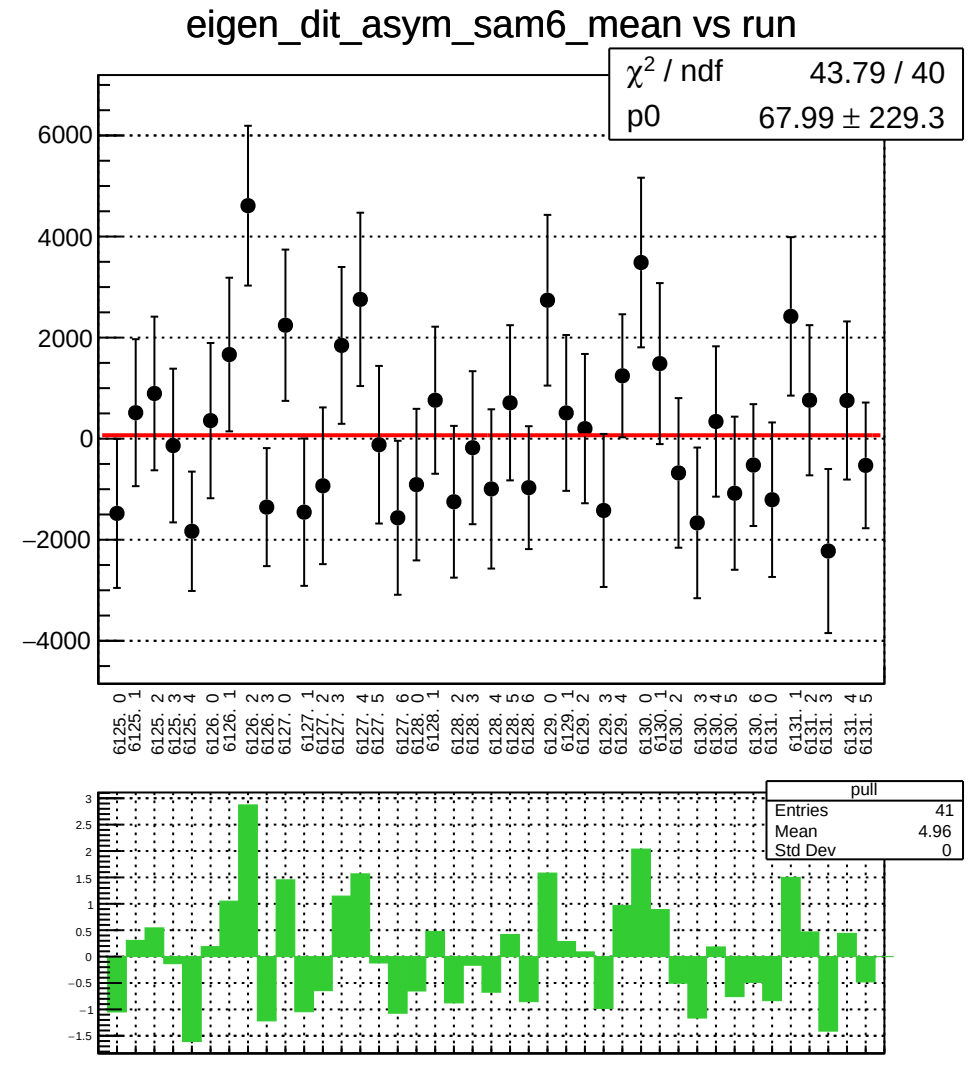

dit_asym_sam6_mean vs run
χ^2 / ndf 43.79 / 40
p0 67.99 ± 229.3
6000
4000
2000
0
−2000
−4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 4.959
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

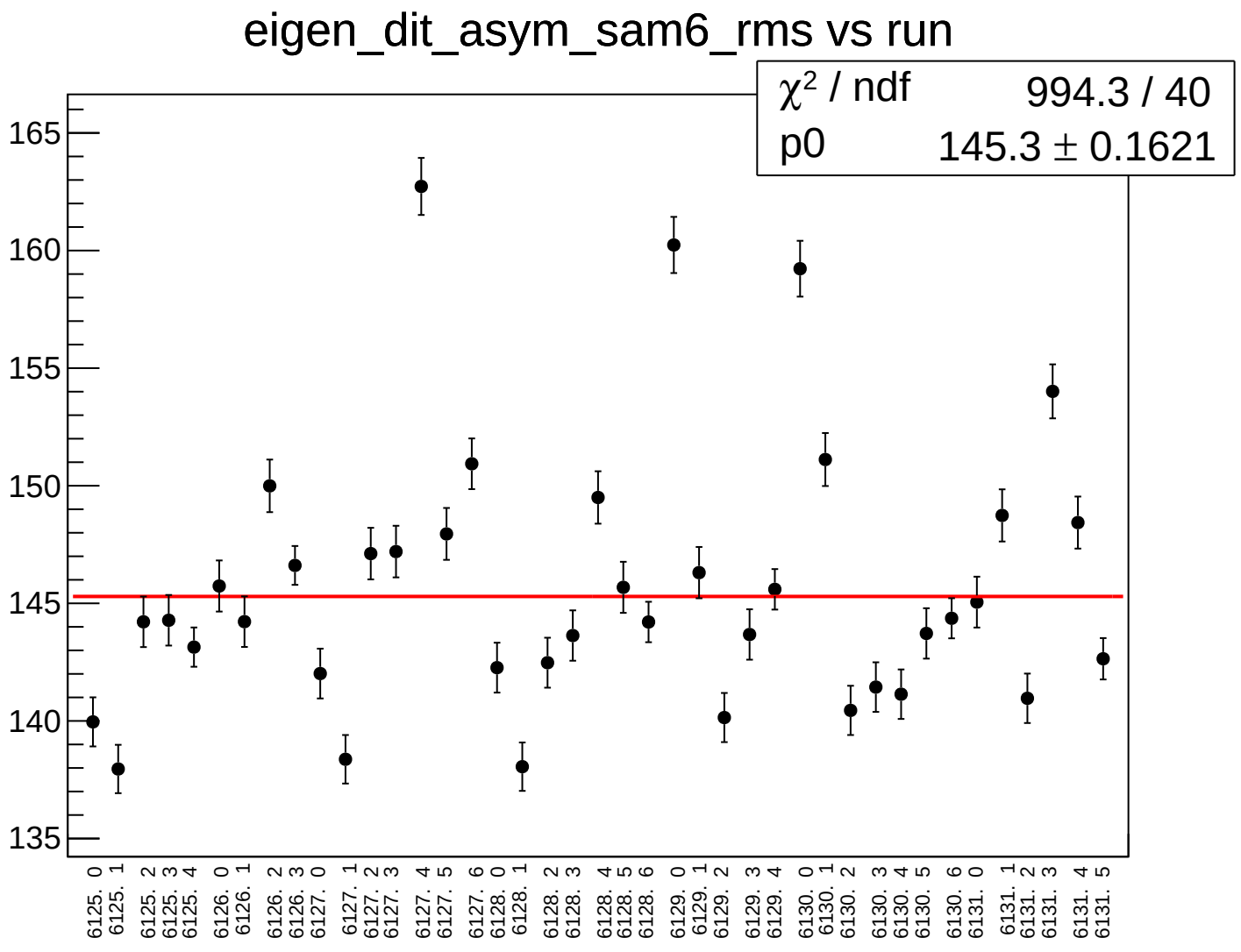

pull1D
Entries 41
Mean 0.04234
Std Dev 1.033
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

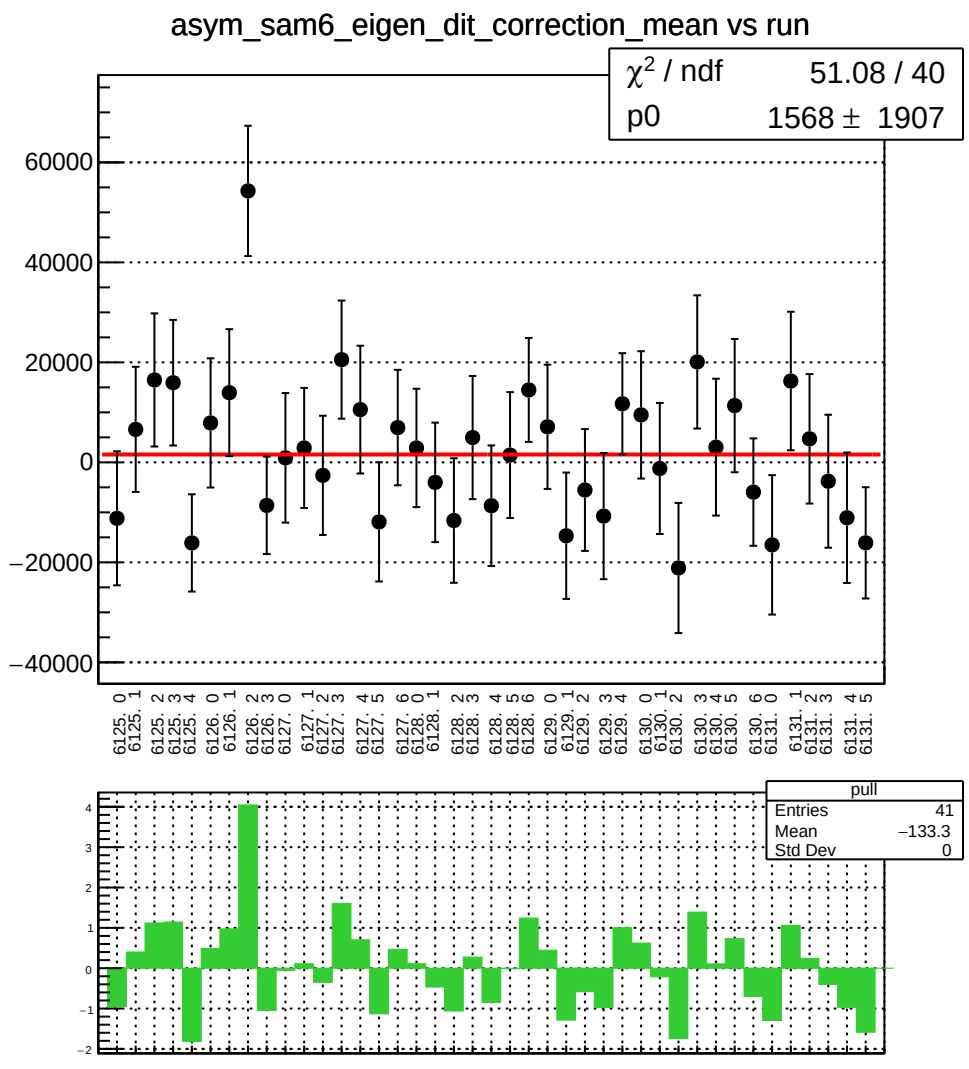

dit_asym_sam6_rms vs run
χ² / ndf 994.3 / 40
p0 145.3 ± 0.1621
165
160
155
150
145
140
135
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

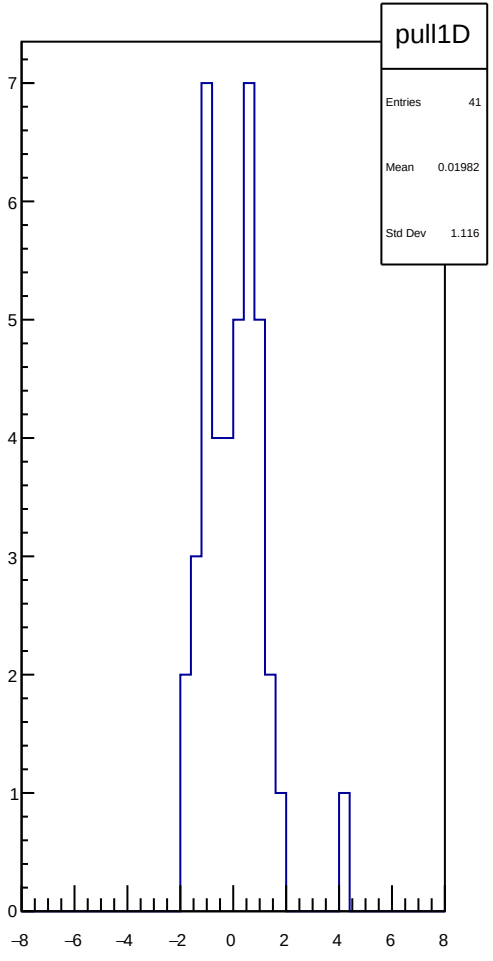

asym_sam6_dit_correction_mean vs run
χ² / ndf 51.08 / 40
p0 1568 ± 1907
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −133.3
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01982
Std Dev 1.116
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

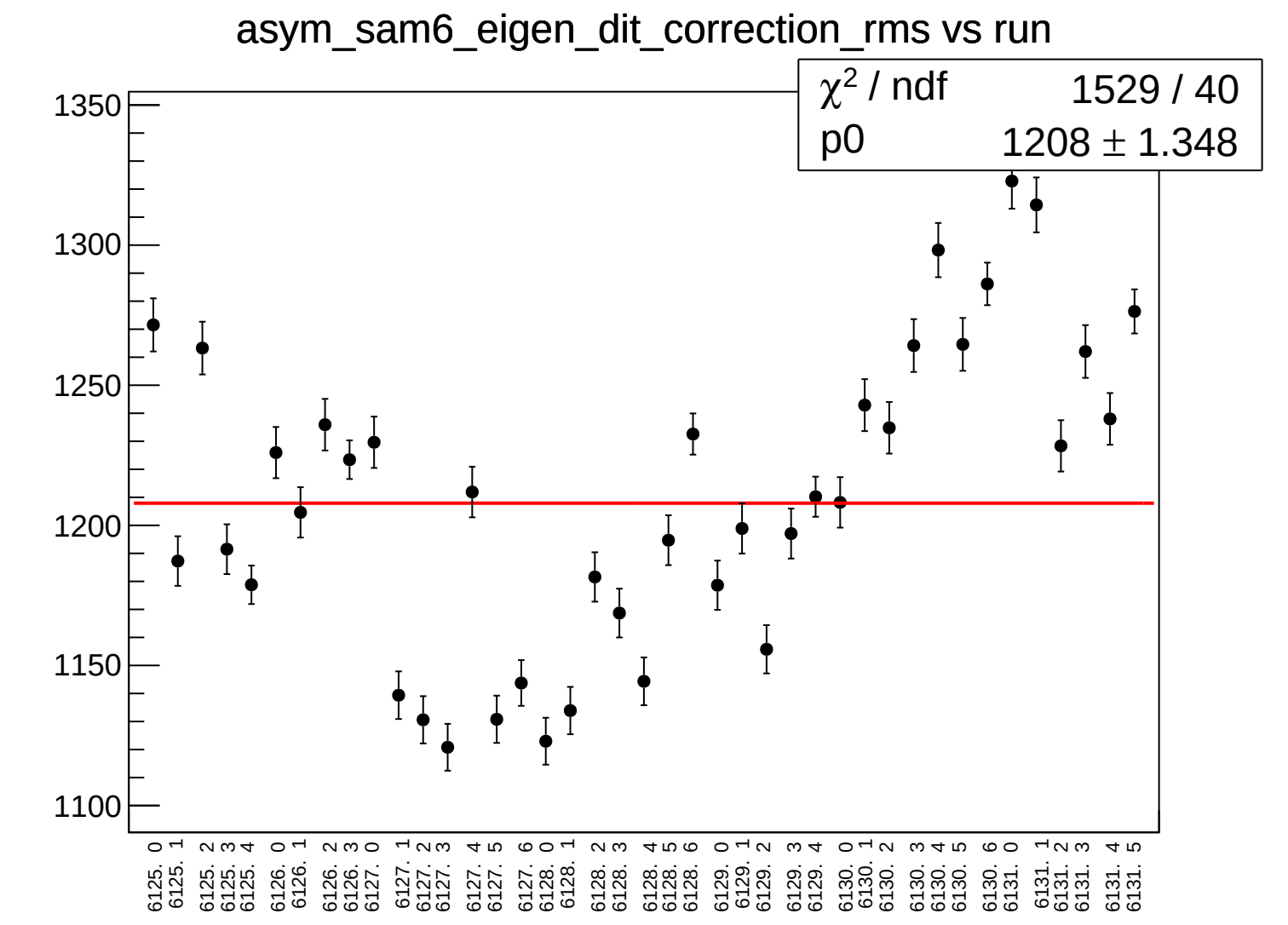

asym_sam6_dit_correction_rms vs run
χ² / ndf 1529 / 40
p0 1208 ± 1.348
1350
1300
1250
1200
1150
1100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

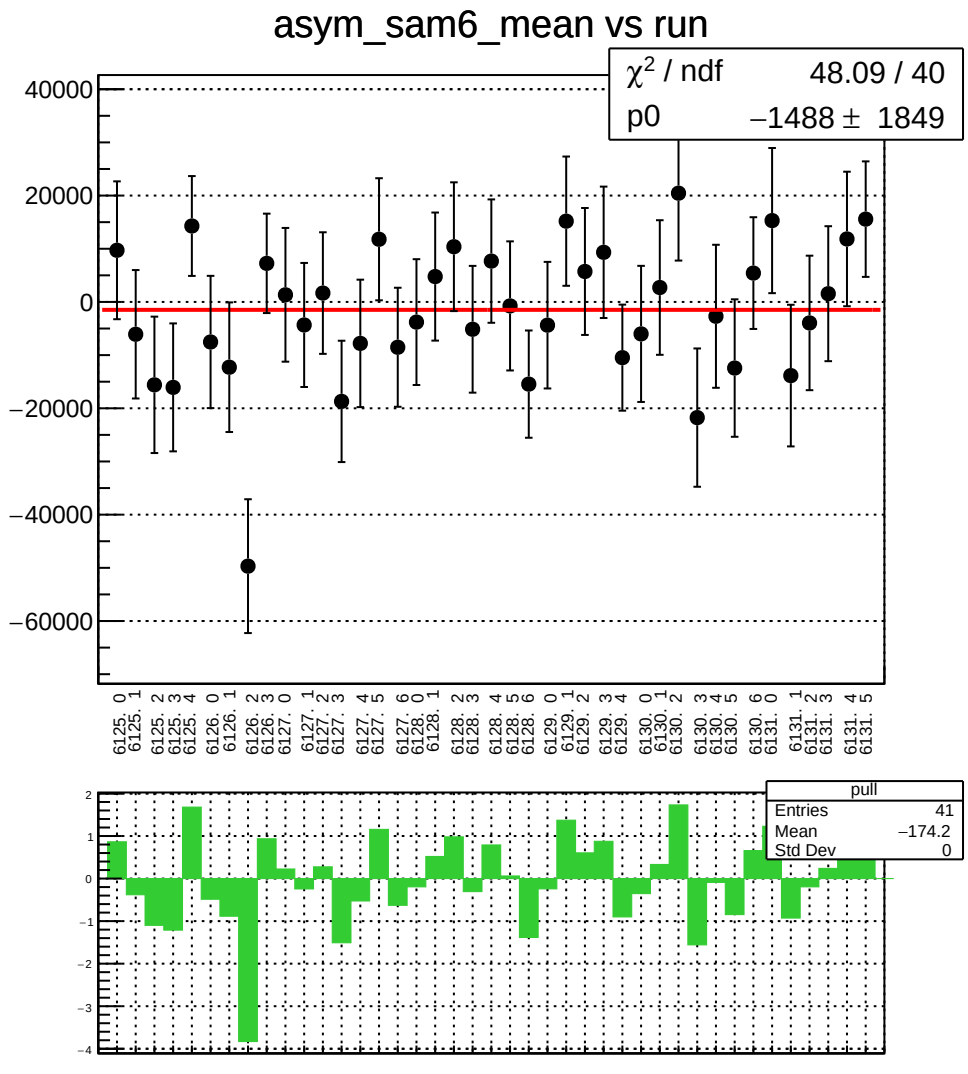

eigen_dit_asym_sam6_mean vs run
χ² / ndf 43.79 / 40
p0 67.99 ± 229.3
6000
4000
2000
0
−2000
−4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 4.96
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.04234
Std Dev 1.033
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

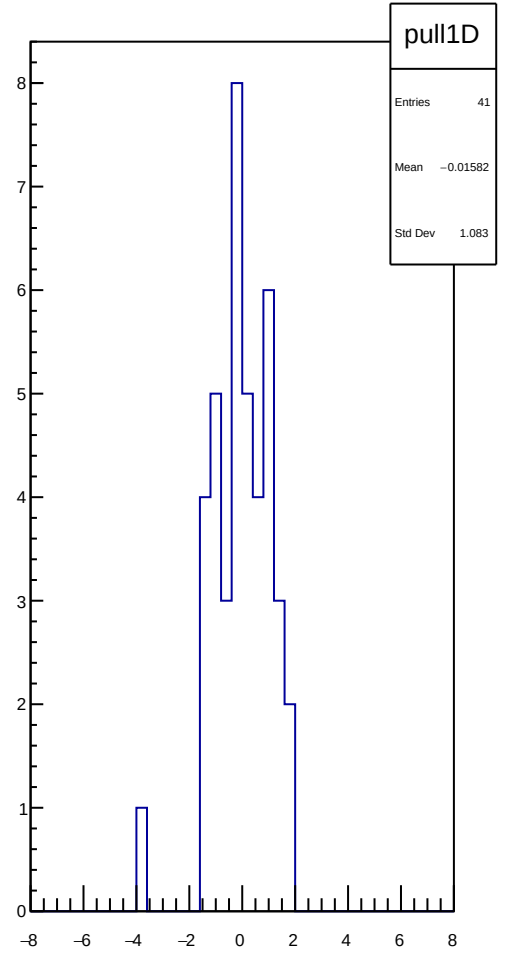

eigen_dit_asym_sam6_rms vs run
χ² / ndf 994.3 / 40
p0 145.3 ± 0.1621
165
160
155
150
145
140
135
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

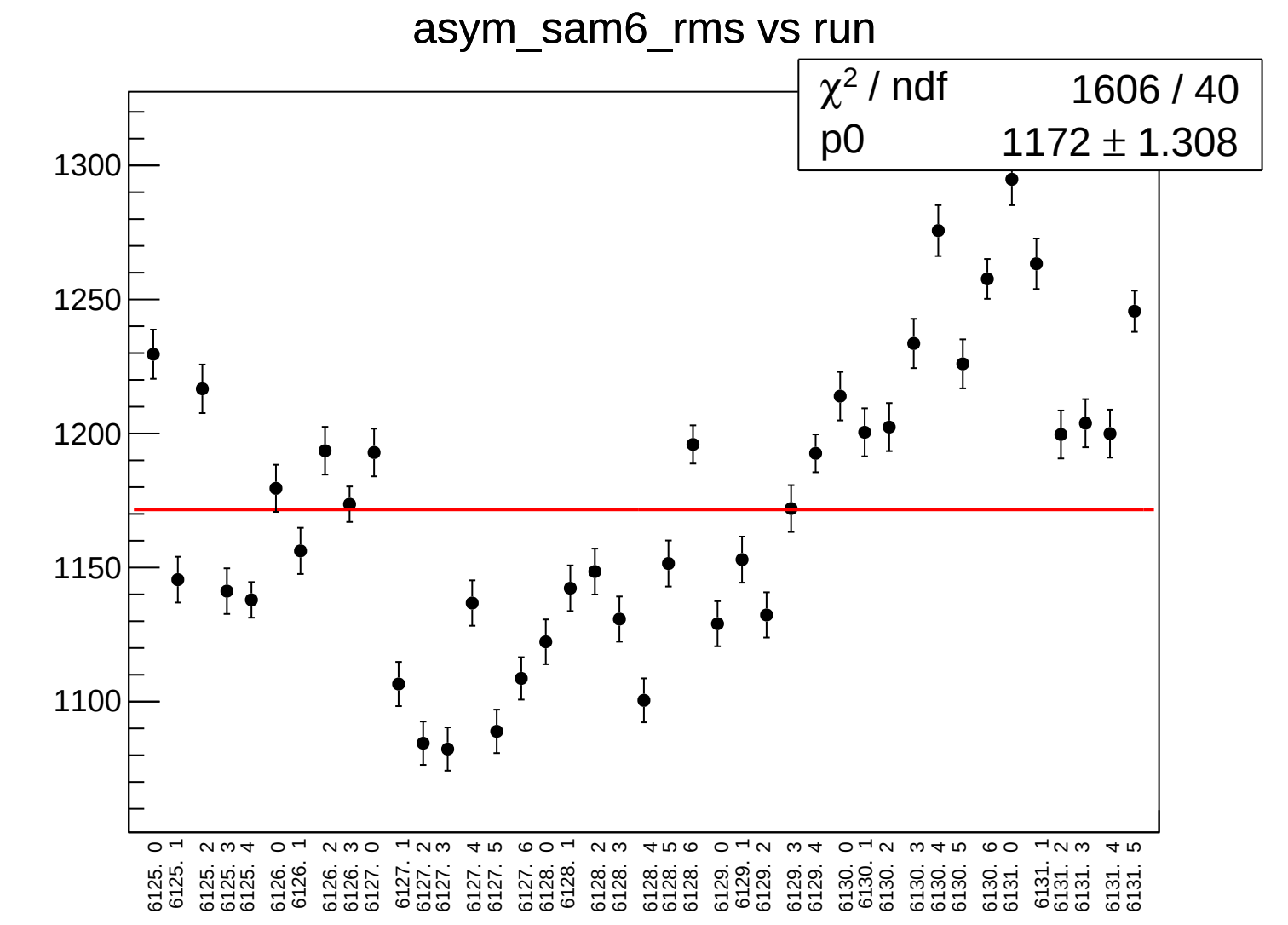

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 51.08 / 40
p0 1568 ± 1907
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −133.3
Std Dev 0
4
3
2
1
0
−1
−2

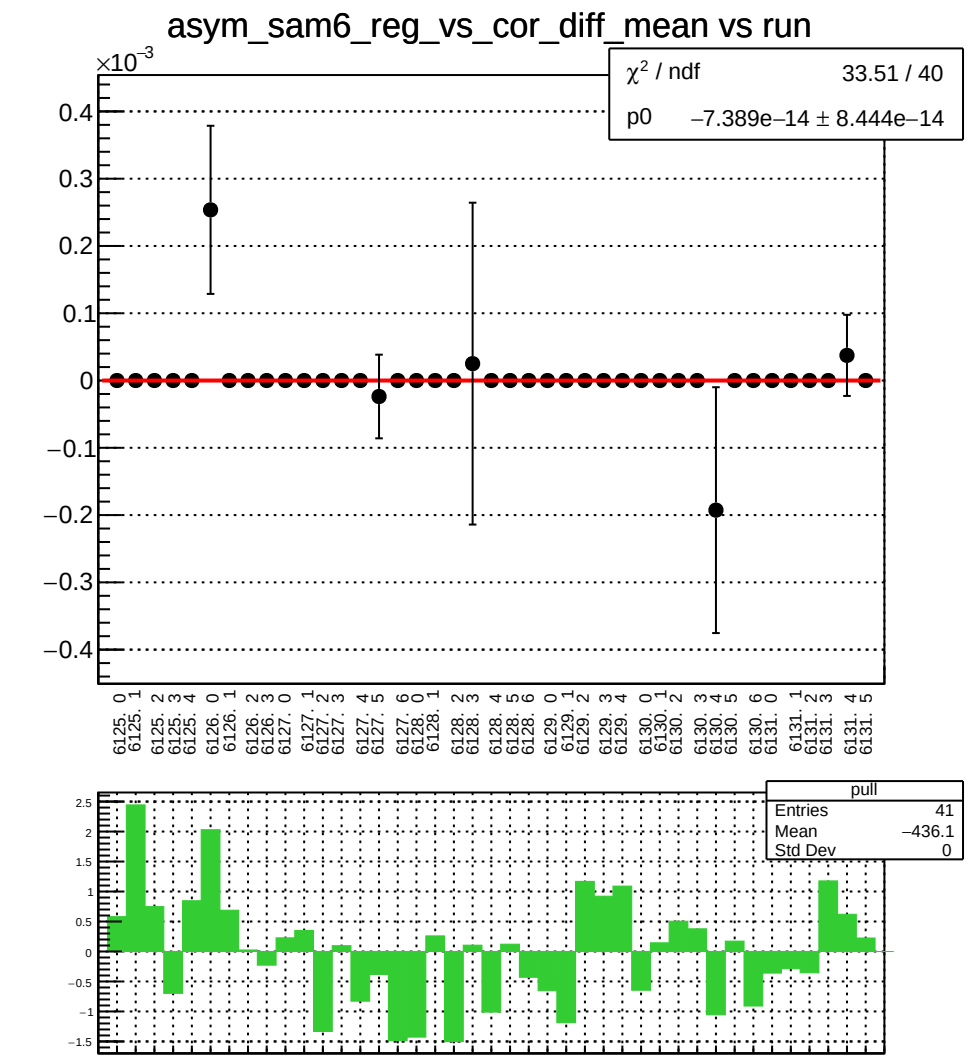

pull1D
Entries 41
Mean 0.01982
Std Dev 1.116
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

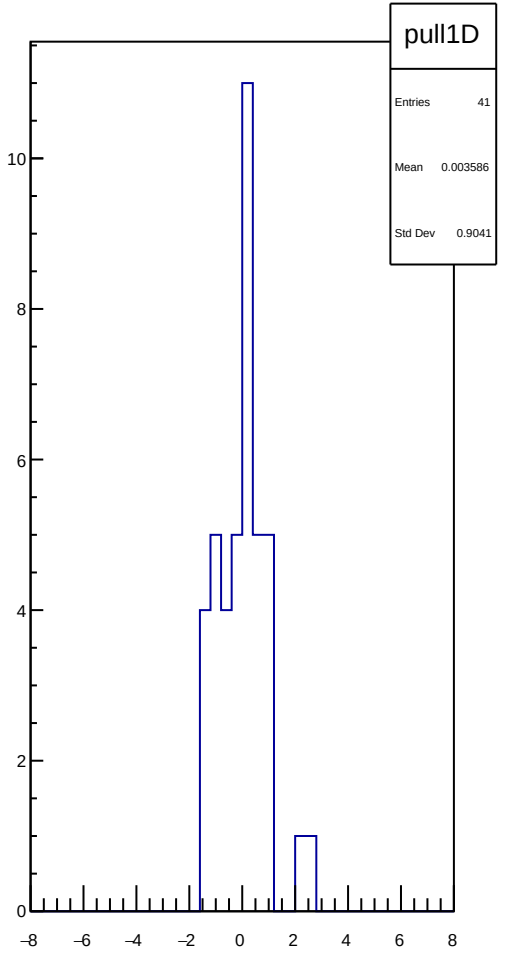

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 1529 / 40
p0 1208 ± 1.348
1350
1300
1250
1200
1150
1100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

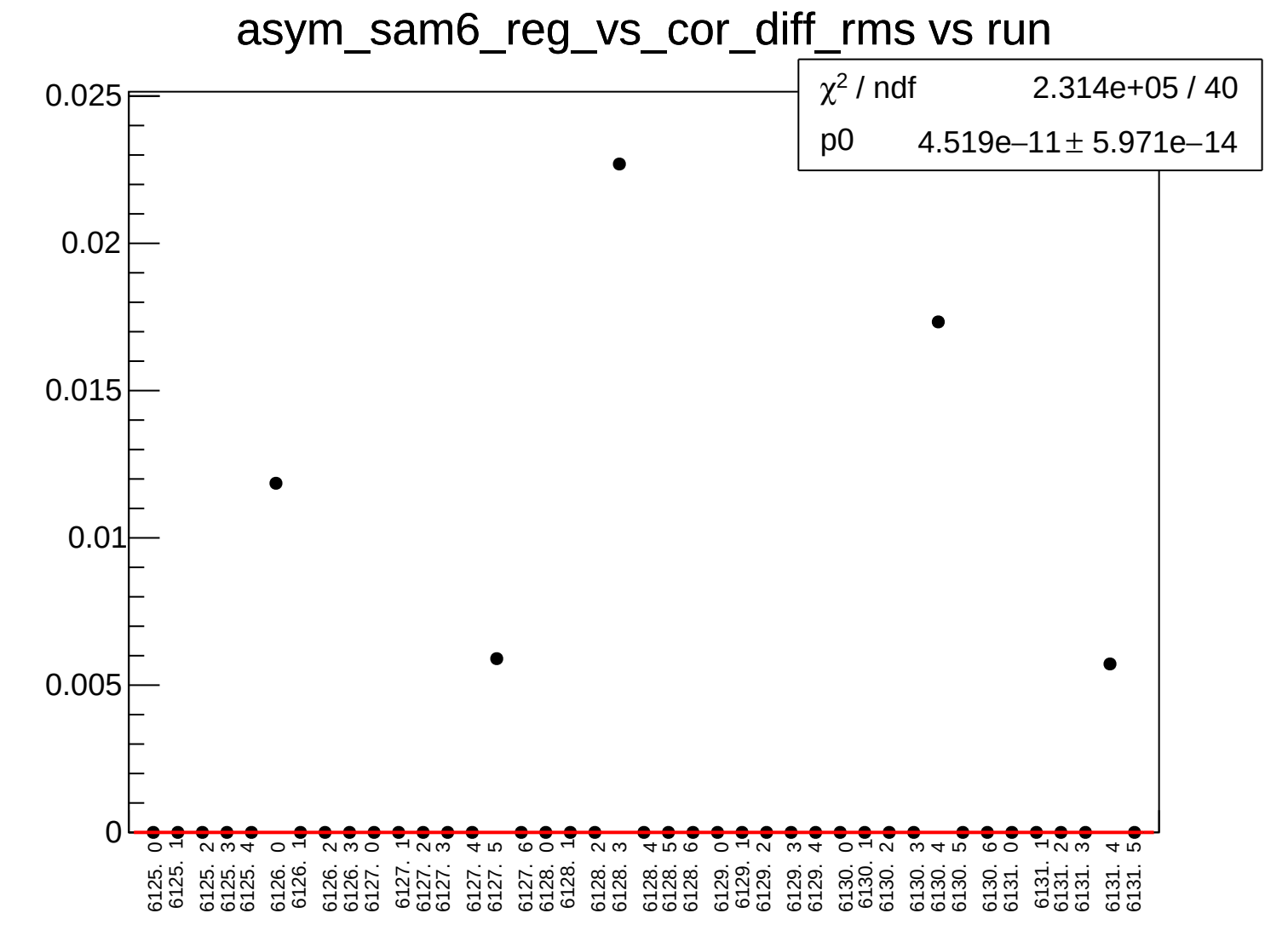

asym_sam6_mean vs run
χ² / ndf 48.09 / 40
p0 −1488 ± 1849
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −174.2
Std Dev 0
2
1
0
−1
−2
−3
−4

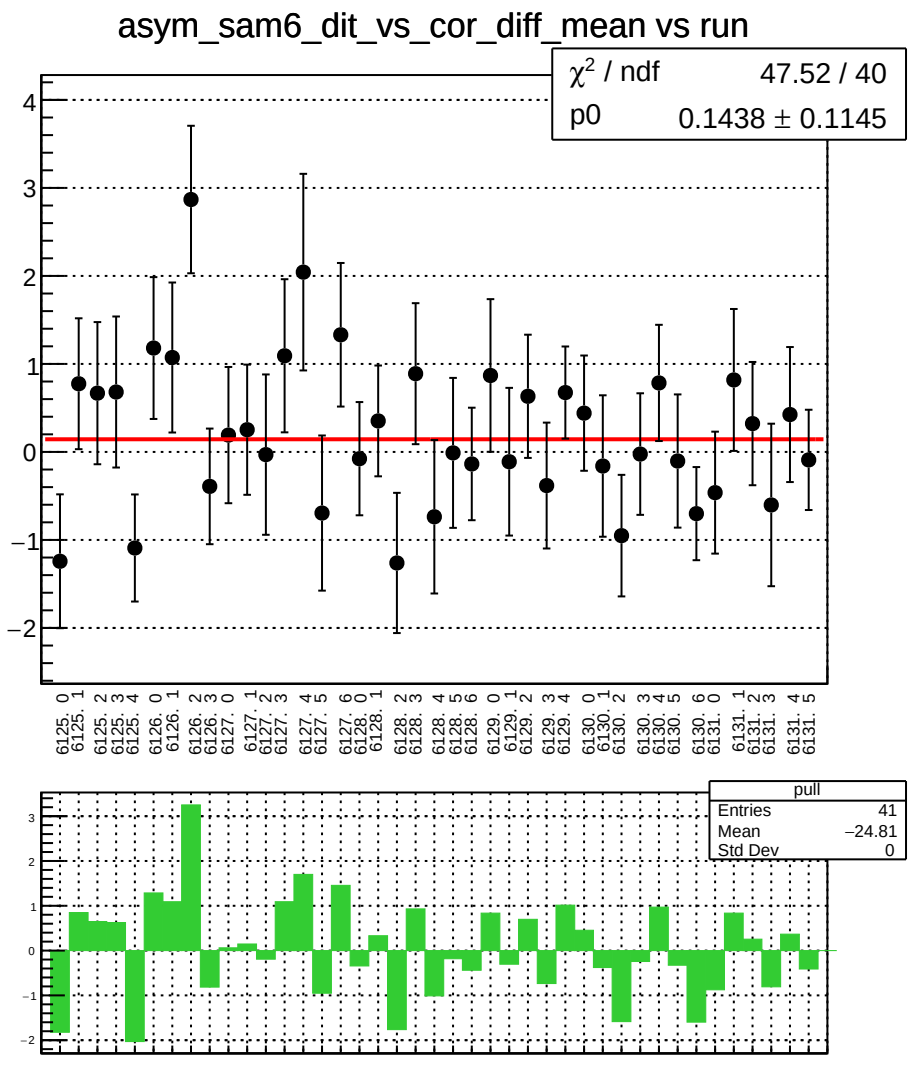

pull1D
Entries 41
Mean −0.01582
Std Dev 1.083
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

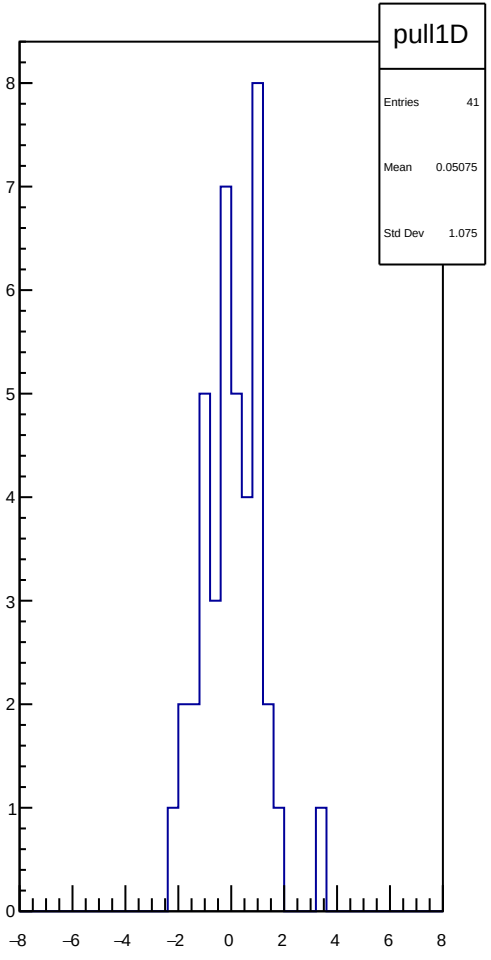

asym_sam6_rms vs run
χ² / ndf 1606 / 40
p0 1172 ± 1.308
1300
1250
1200
1150
1100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

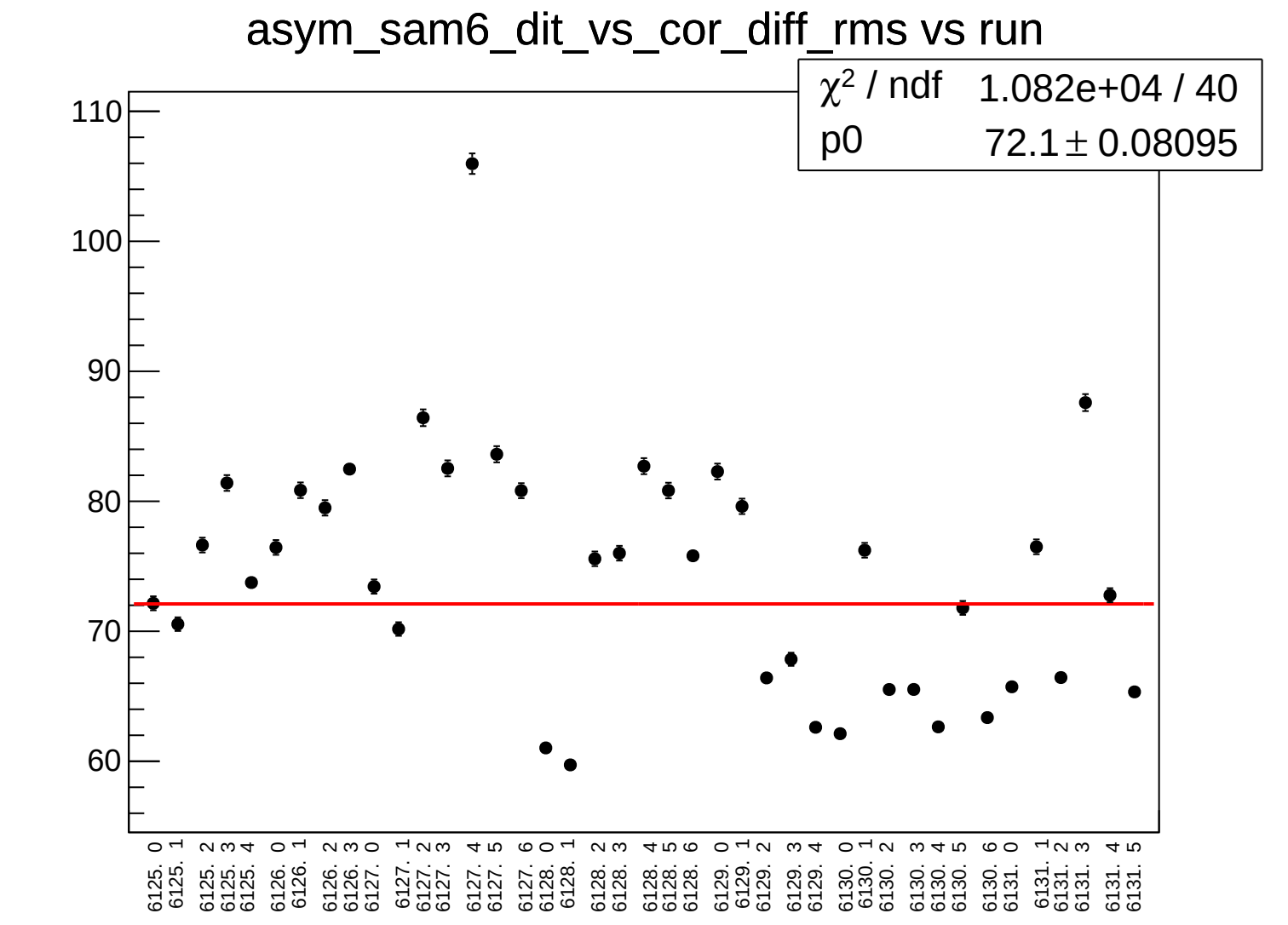

asym_sam6_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 33.51 / 40
p0 −7.389e−14 ± 8.444e−14
pull
Entries 41
Mean −436.1
Std Dev 0

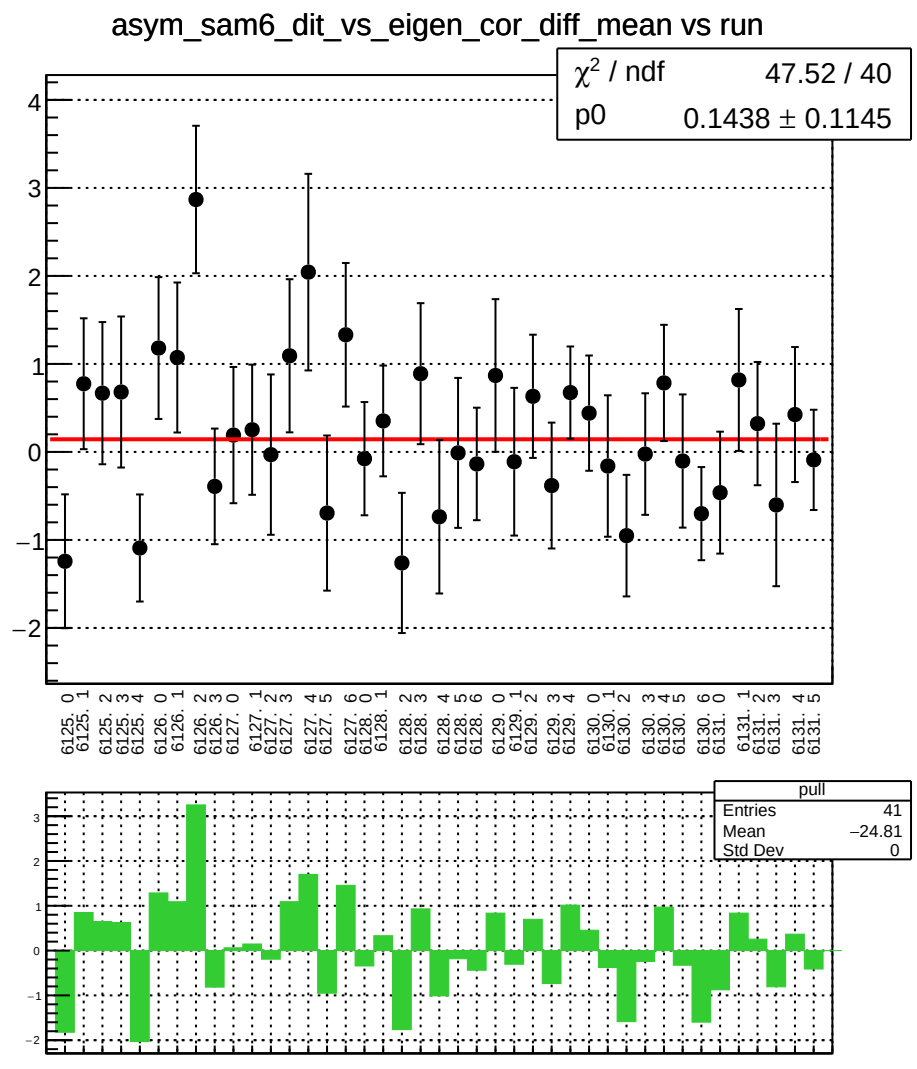

pull1D
Entries 41
Mean 0.003586
Std Dev 0.9041

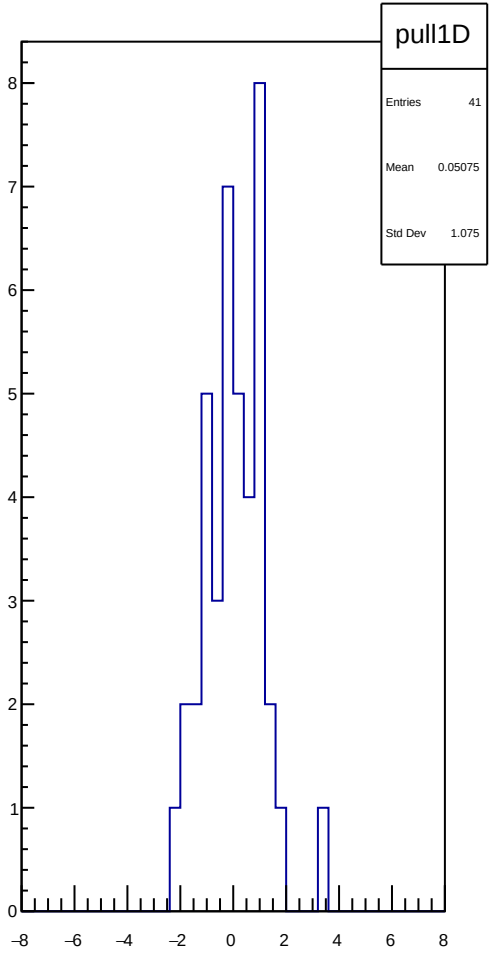

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 2.314e+05 / 40
p0 4.519e−11 ± 5.971e−14
0.025
0.02
0.015
0.01
0.005
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

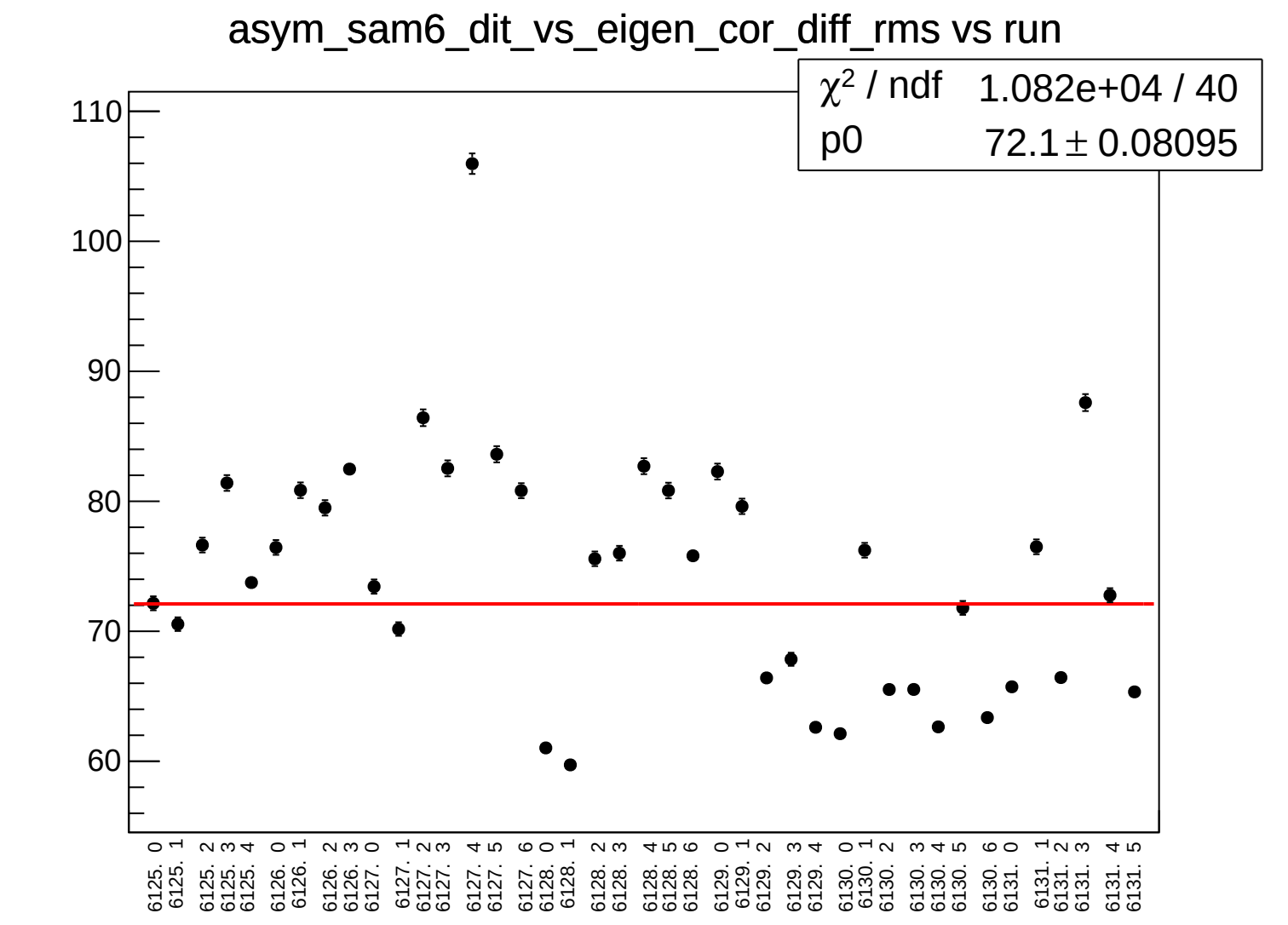

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 47.52 / 40
p0 0.1438 ± 0.1145
pull
Entries 41
Mean −24.81
Std Dev 0

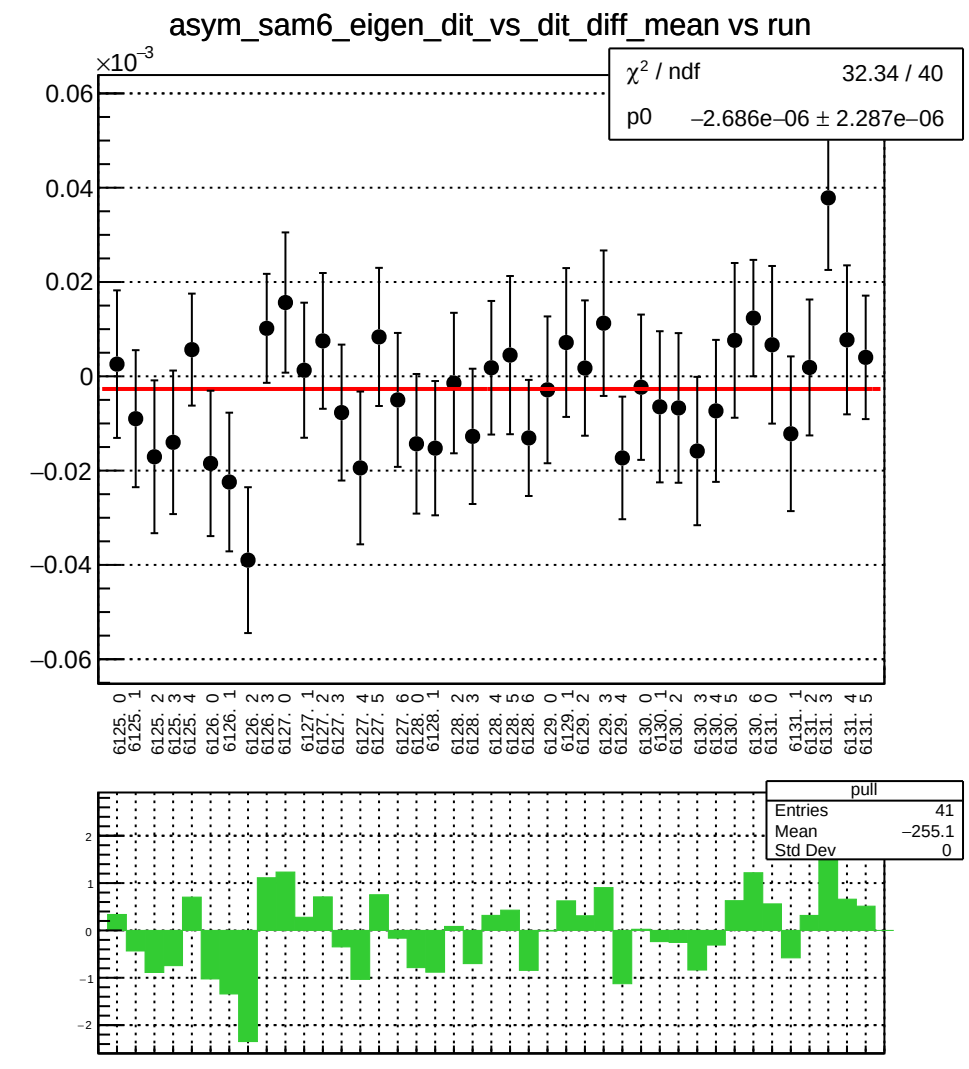

pull1D
Entries 41
Mean 0.05075
Std Dev 1.075

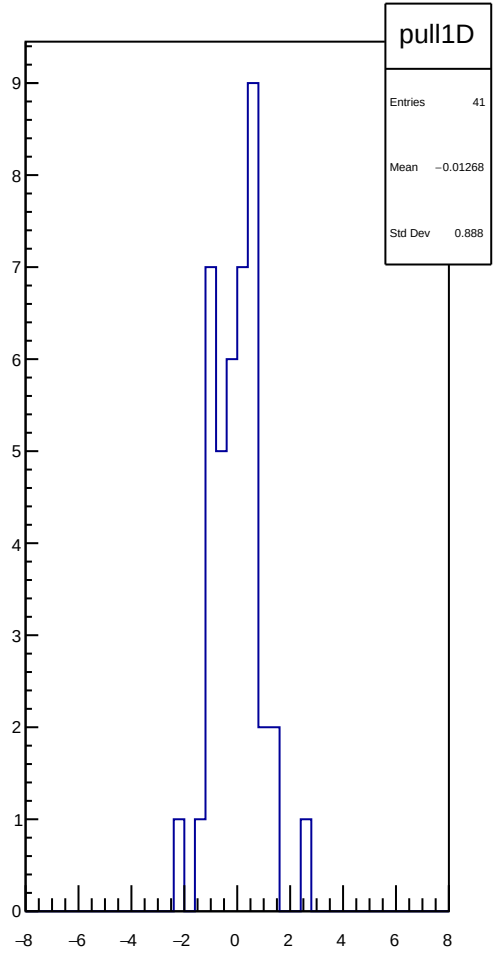

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 1.082e+04 / 40
p0 72.1 ± 0.08095
110
100
90
80
70
60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

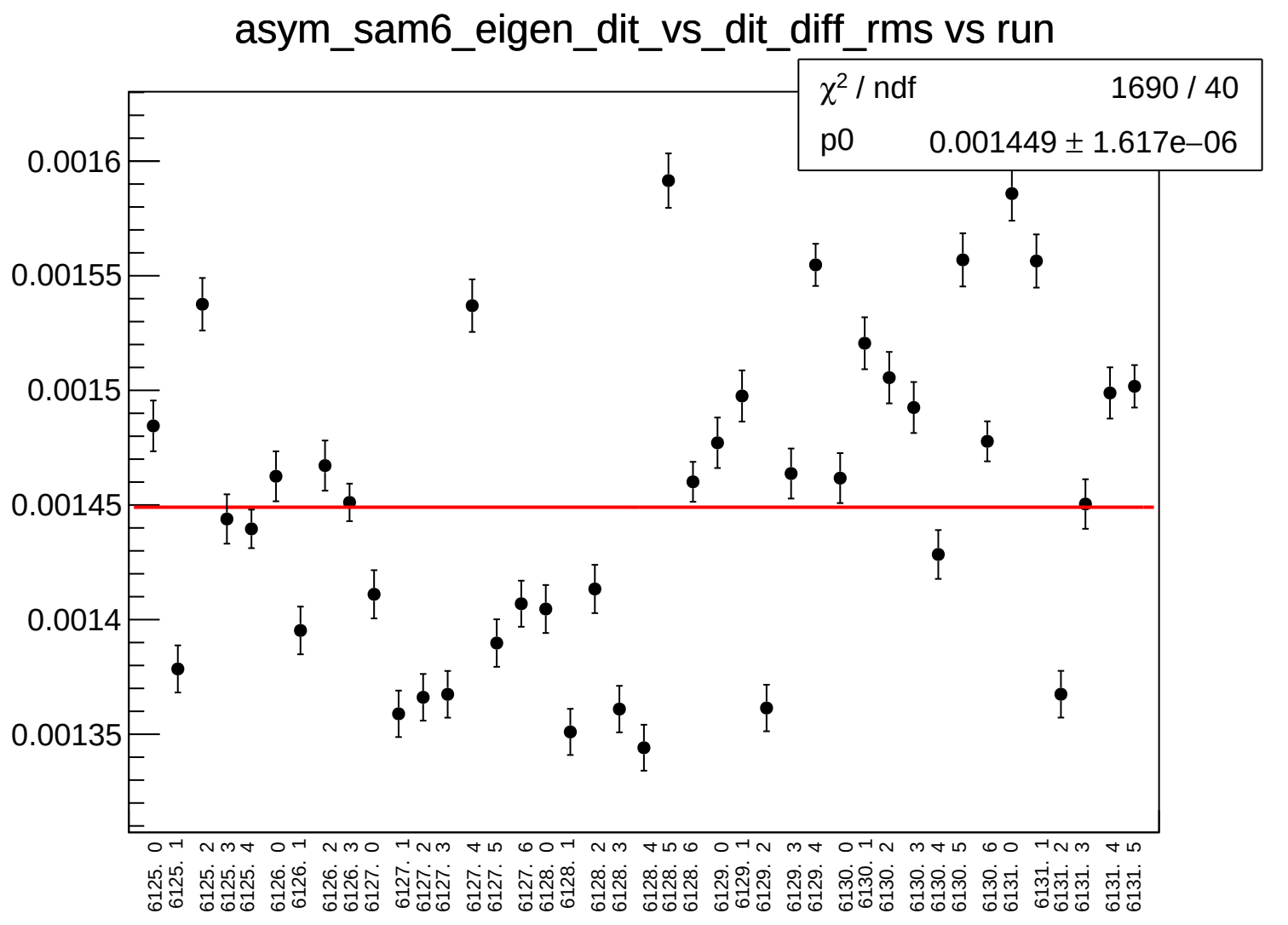

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.52 / 40
p0 0.1438 ± 0.1145
pull
Entries 41
Mean −24.81
Std Dev 0

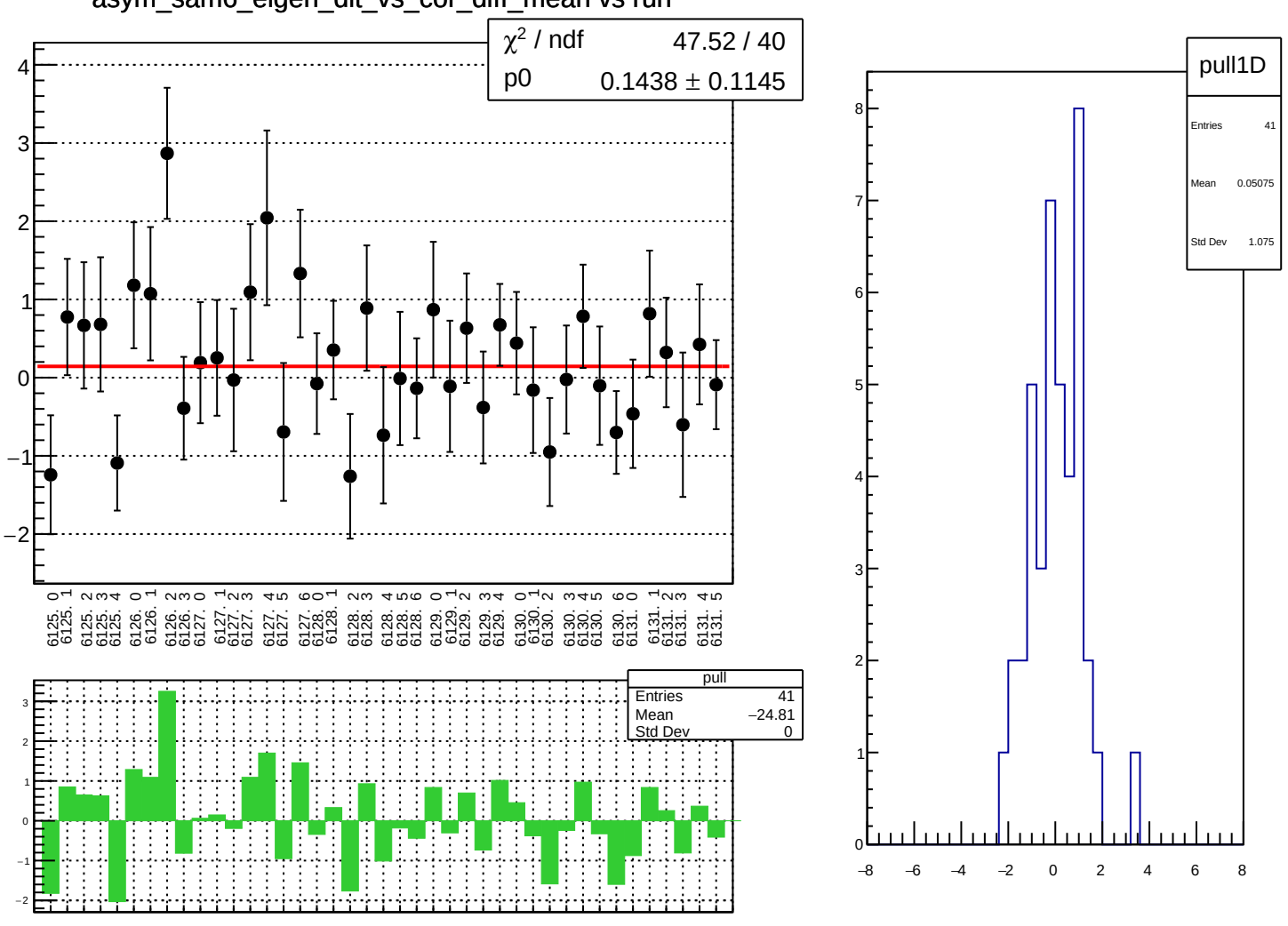

pull1D
Entries 41
Mean 0.05075
Std Dev 1.075

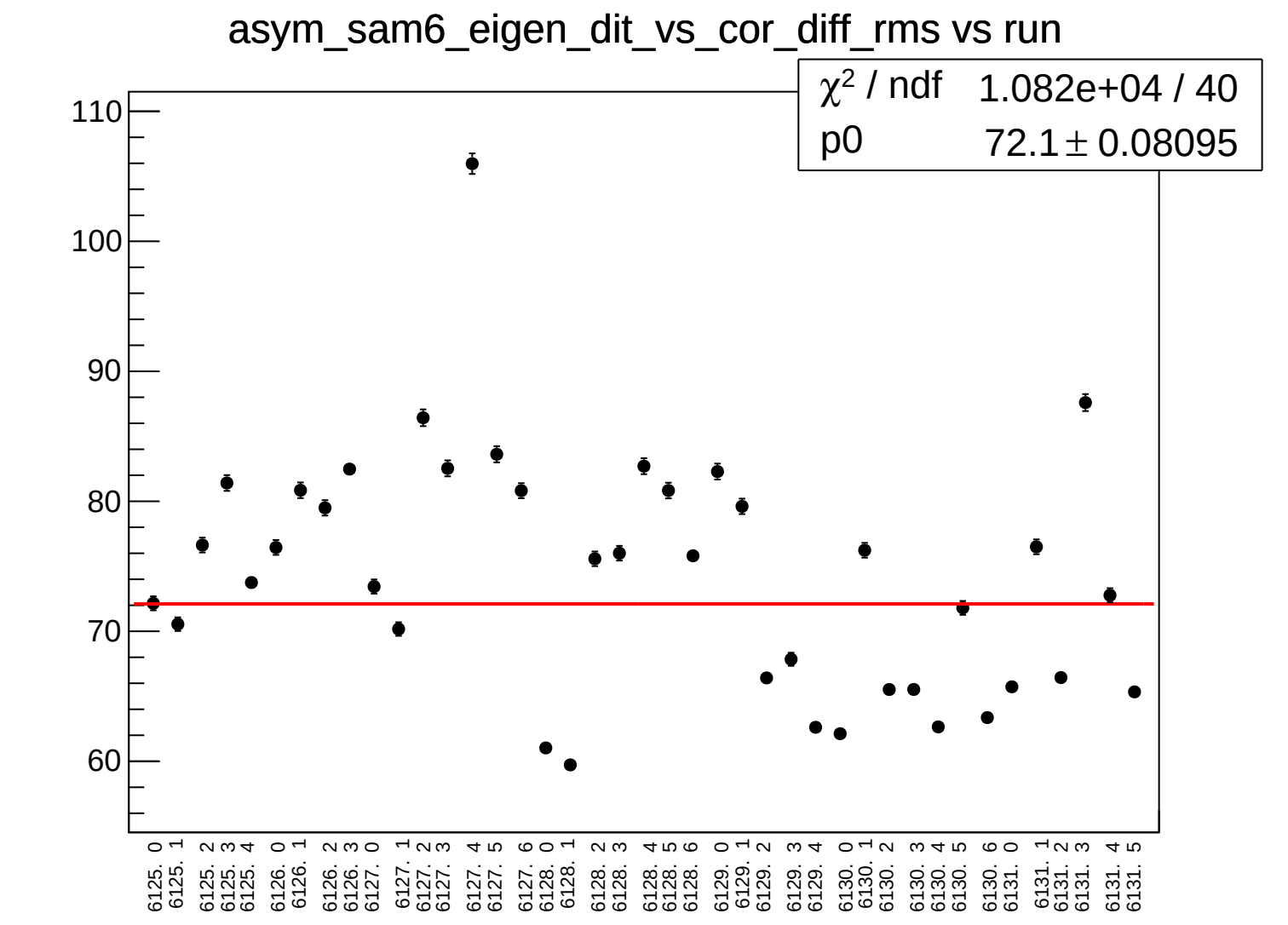

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.082e+04 / 40
p0 72.1 ± 0.08095
110
100
90
80
70
60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

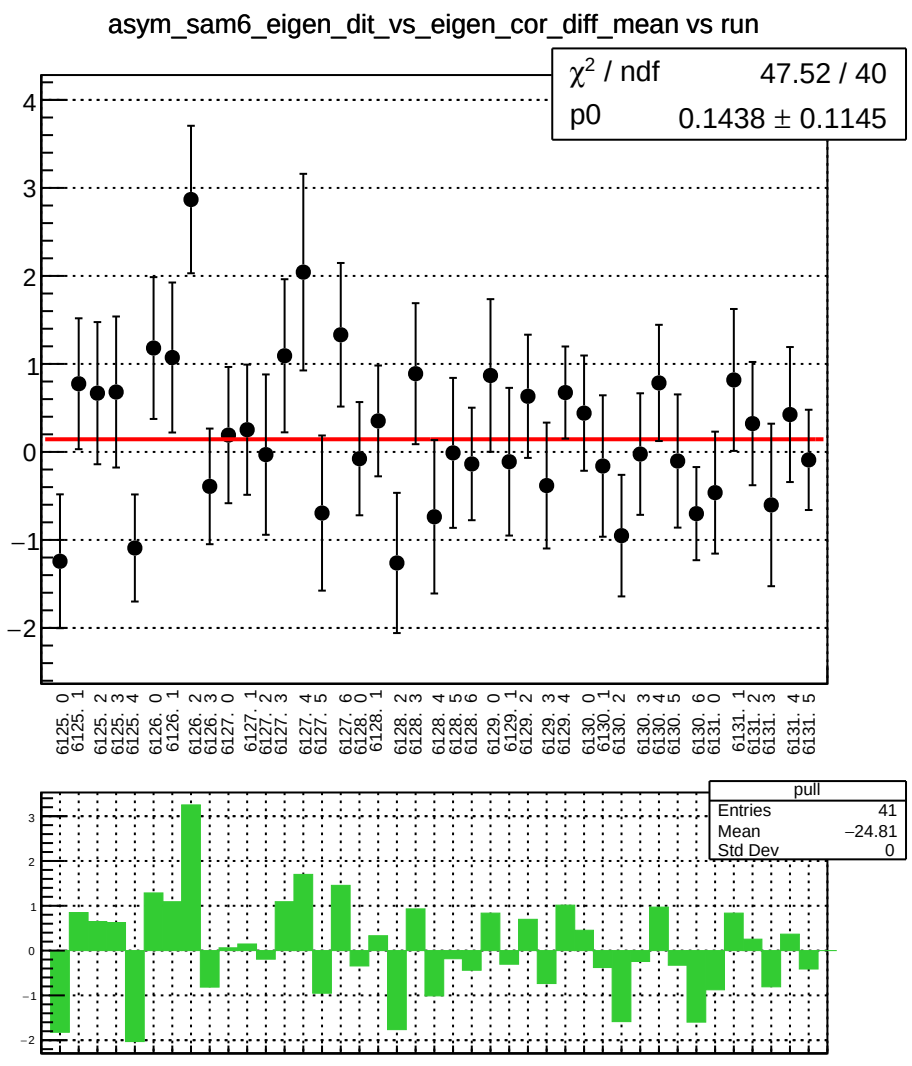

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 32.34 / 40
p0 −2.686e−06 ± 2.287e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −255.1
Std Dev 0
2
1
0
−1
−2

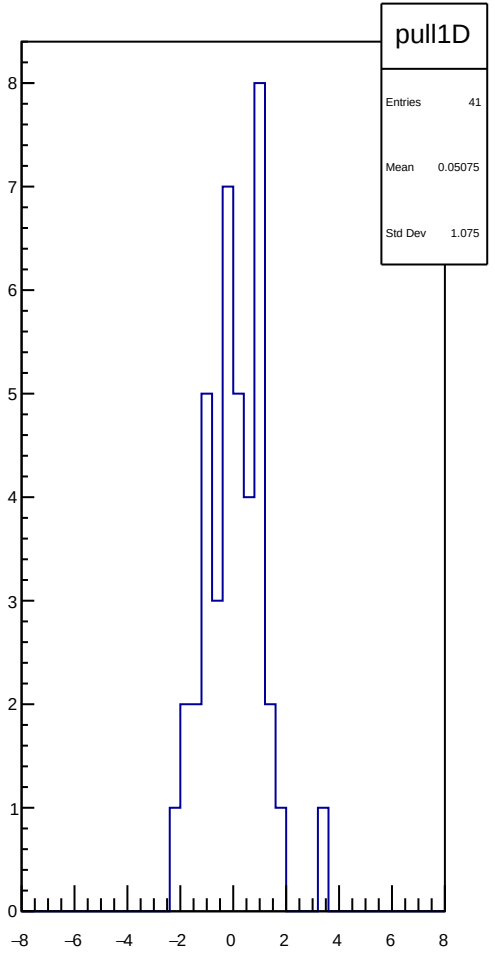

pull1D
Entries 41
Mean −0.01268
Std Dev 0.888
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

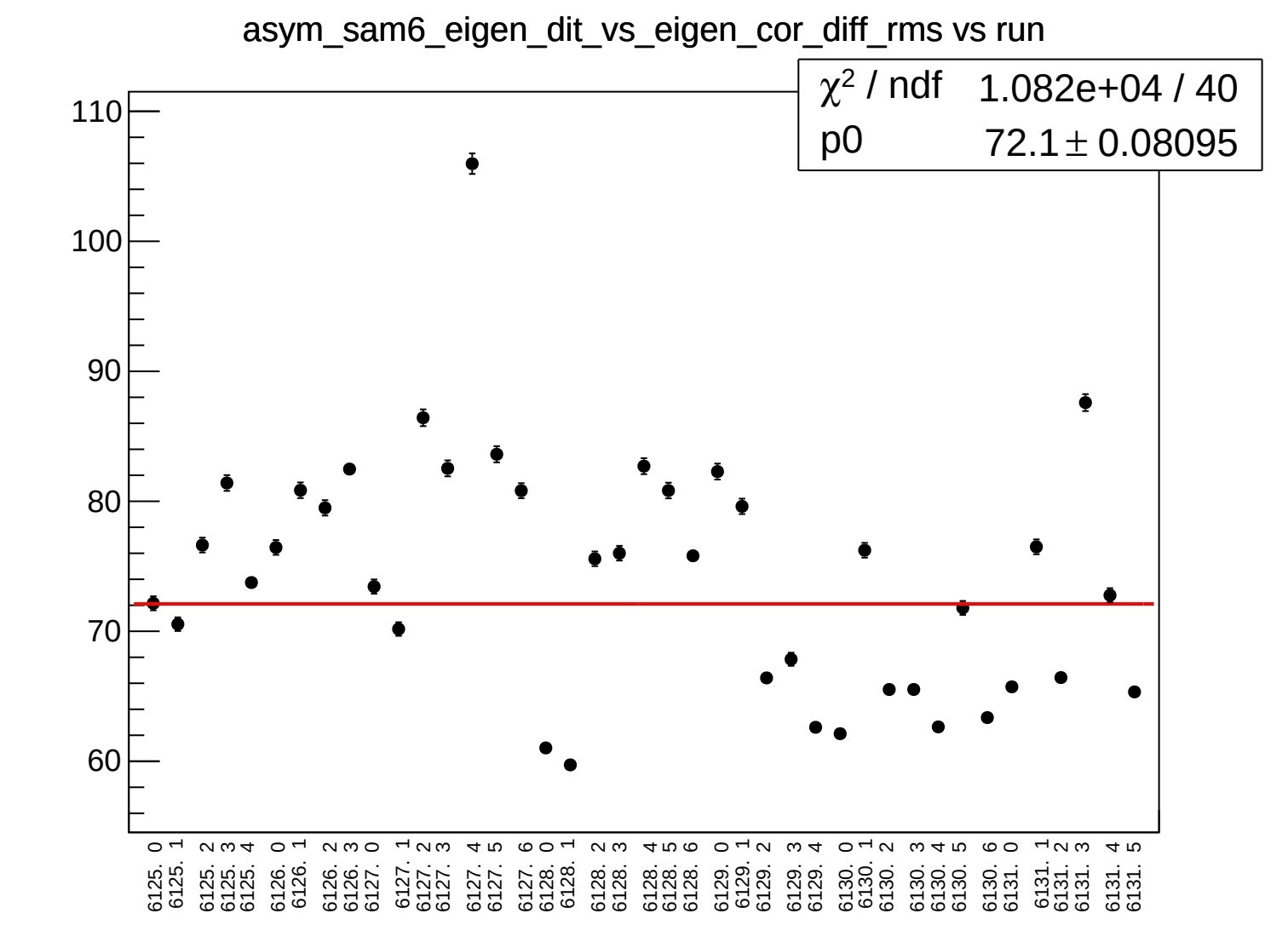

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1690 / 40
p0 0.001449 ± 1.617e−06
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

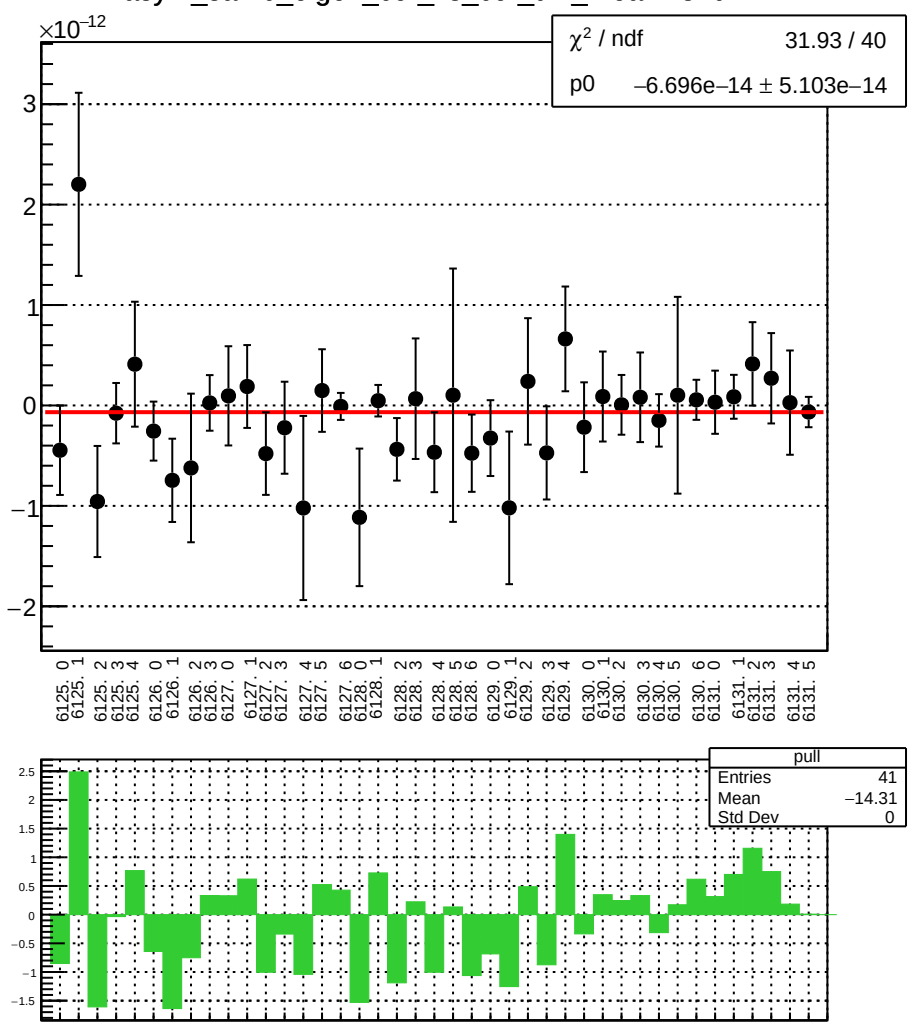

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 47.52 / 40
p0 0.1438 ± 0.1145
pull
Entries 41
Mean −24.81
Std Dev 0
pull1D
Entries 41
Mean 0.05075
Std Dev 1.075

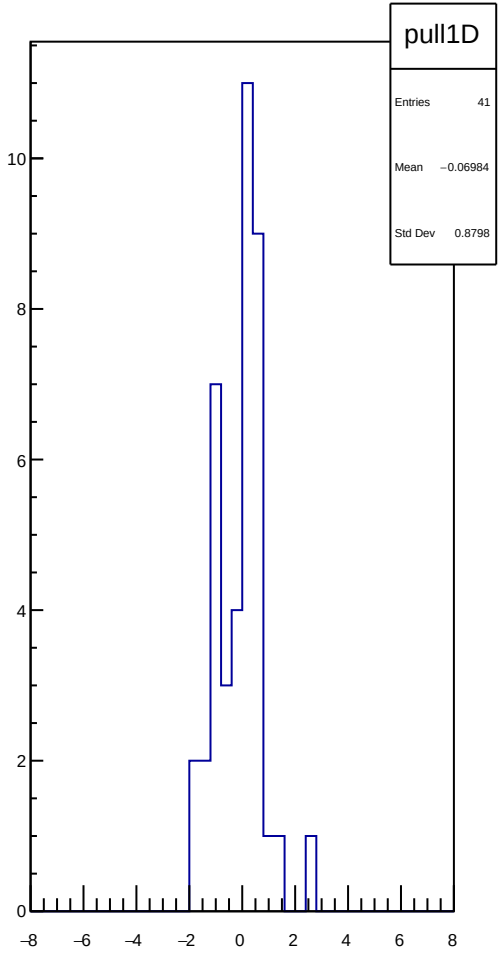

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.082e+04 / 40
p0 72.1 ± 0.08095
110
100
90
80
70
60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

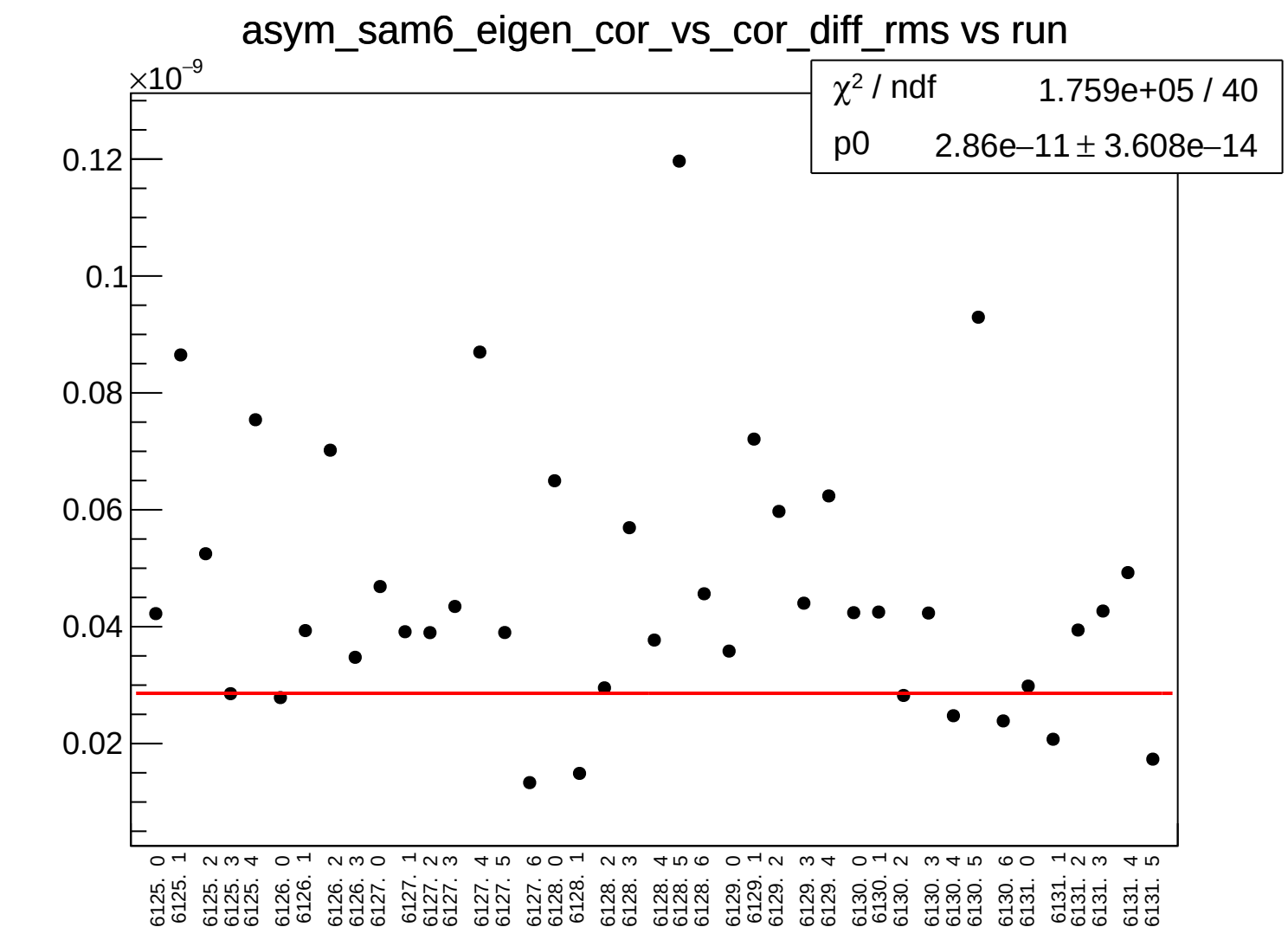

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.52 / 40
p0 0.1438 ± 0.1145
pull
Entries 41
Mean −24.81
Std Dev 0

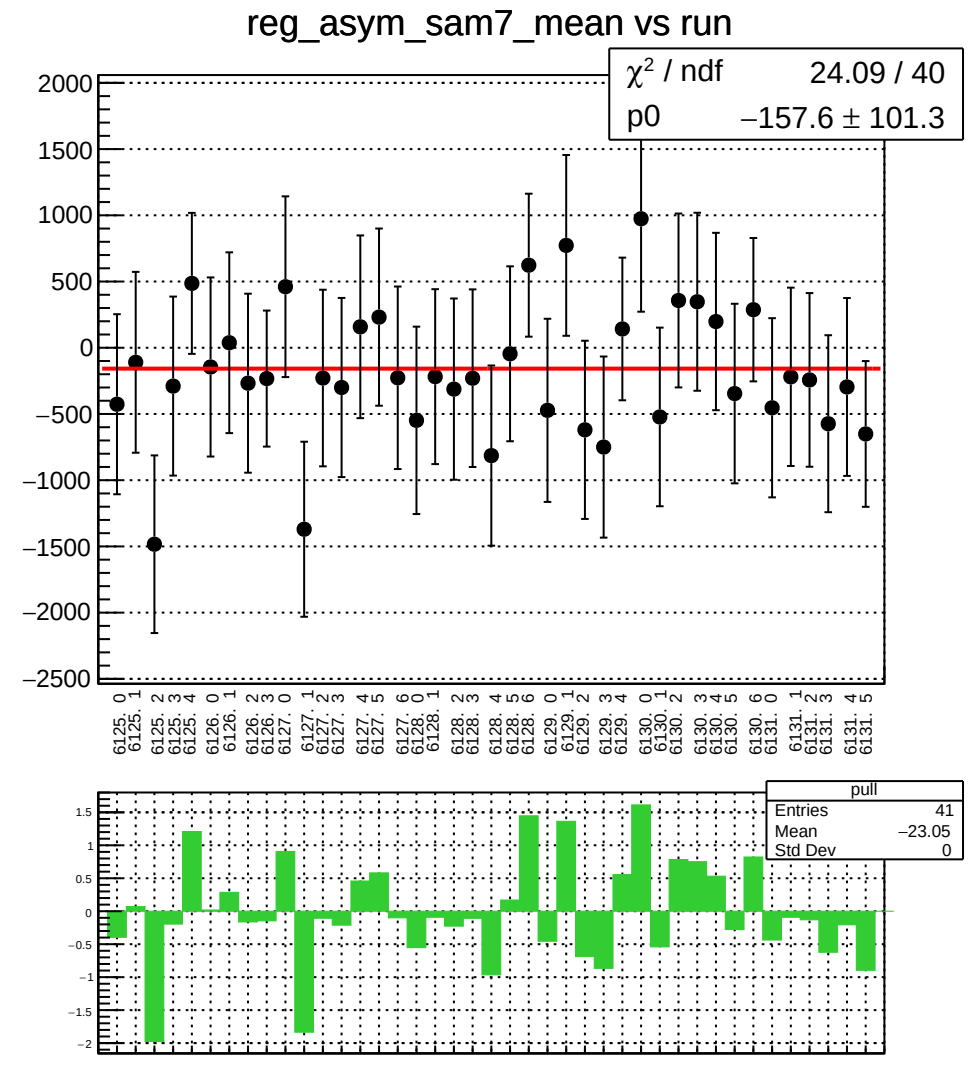

pull1D
Entries 41
Mean 0.05075
Std Dev 1.075

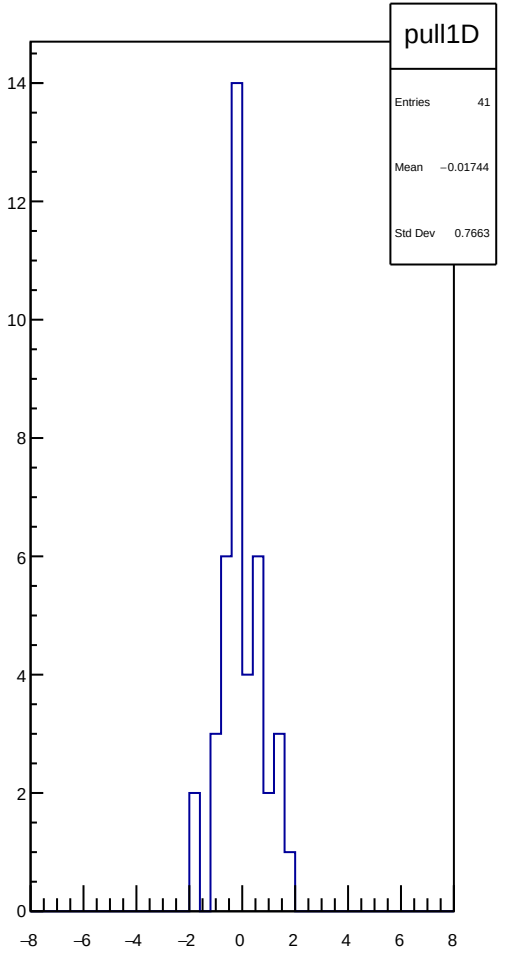

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.082e+04 / 40
p0 72.1 ± 0.08095
110
100
90
80
70
60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

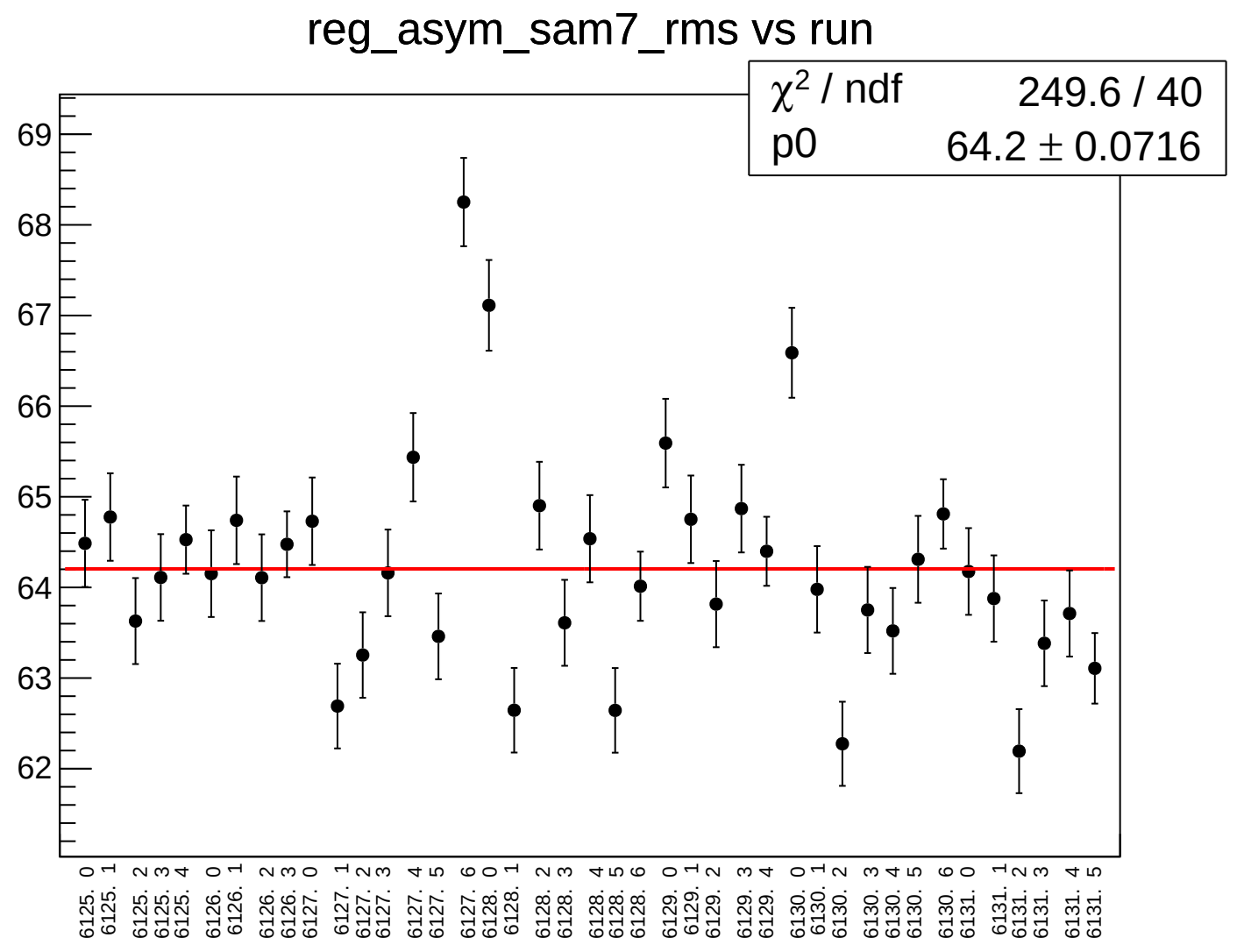

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.93 / 40
p0 −6.696e−14 ± 5.103e−14
pull
Entries 41
Mean −14.31
Std Dev 0

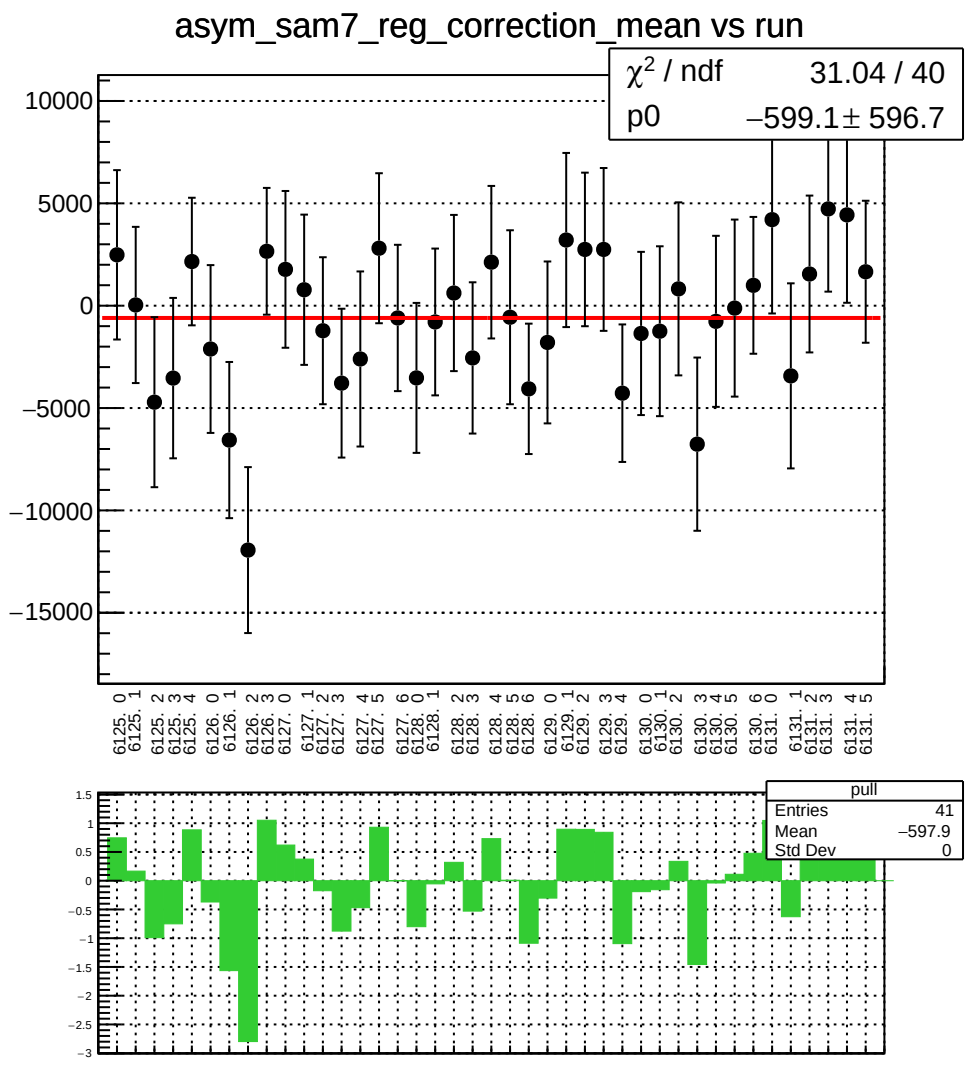

pull1D
Entries 41
Mean −0.06984
Std Dev 0.8798

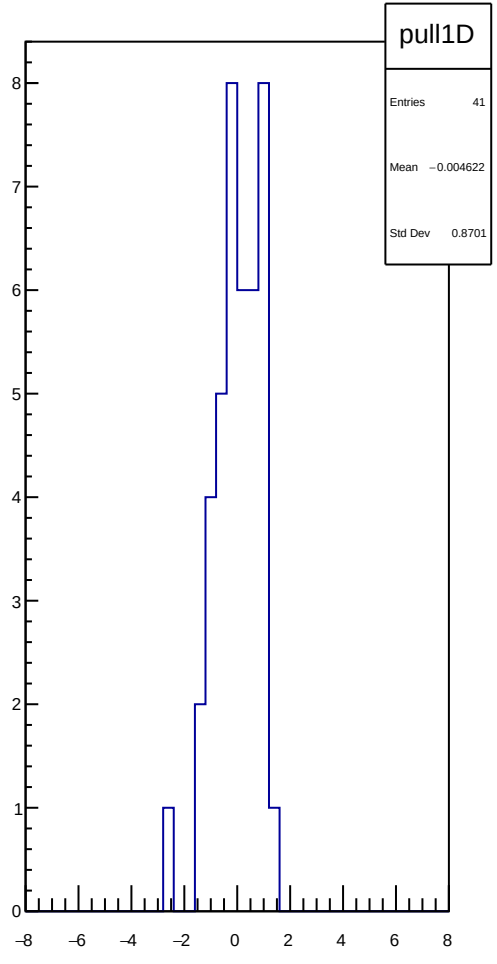

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.759e+05 / 40
p0 2.86e−11 ± 3.608e−14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

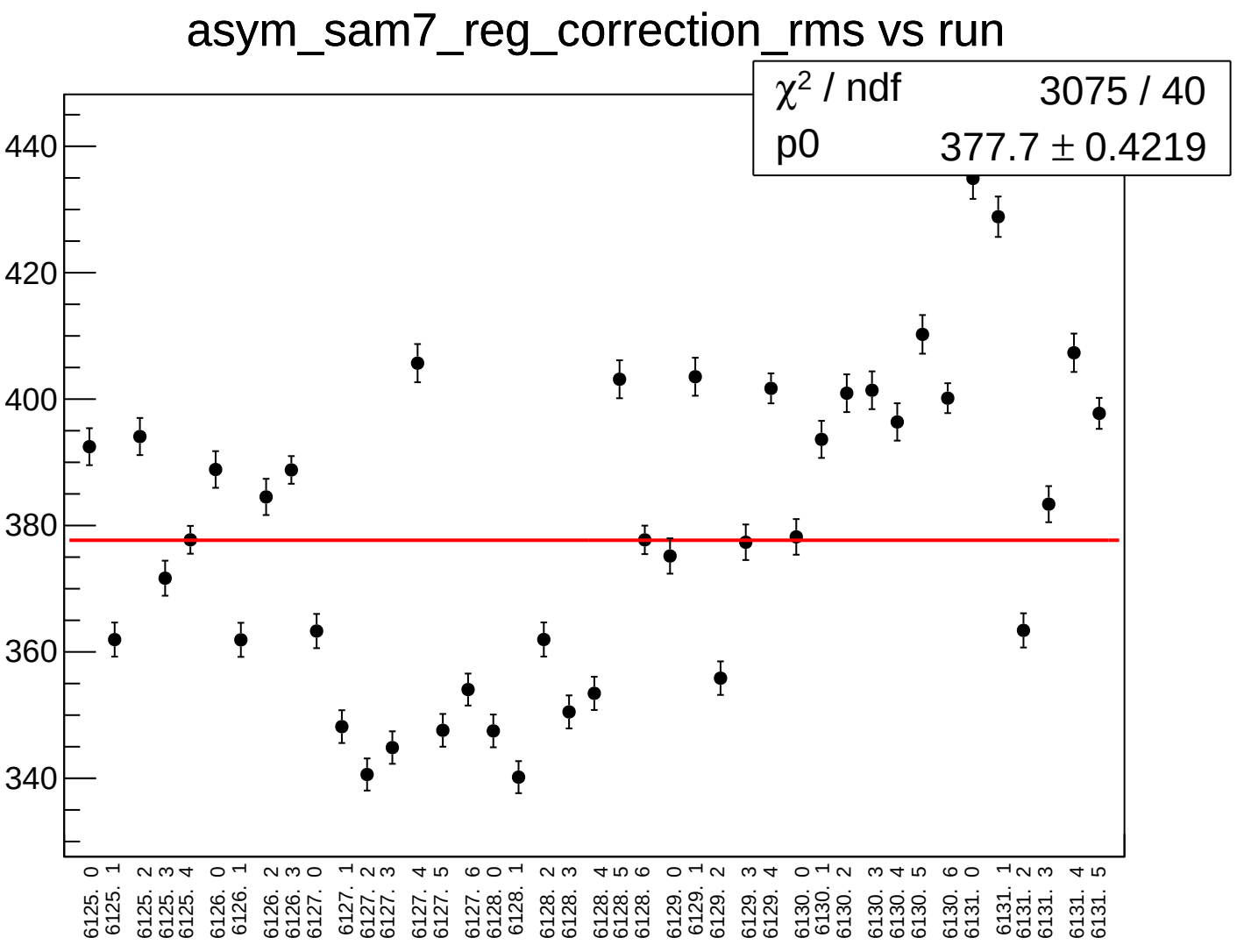

reg_asym_sam7_mean vs run
χ² / ndf 24.09 / 40
p0 −157.6 ± 101.3
pull
Entries 41
Mean −23.05
Std Dev 0

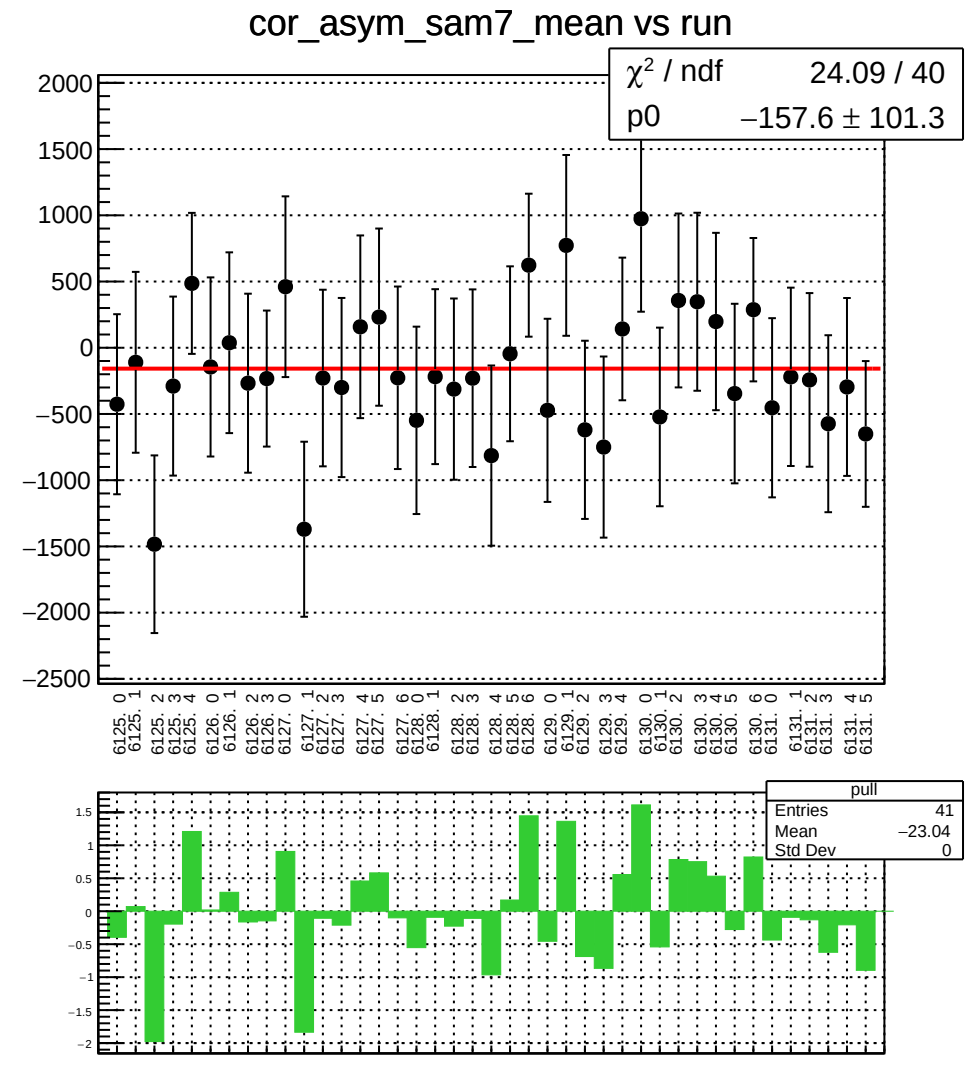

pull1D
Entries 41
Mean −0.01744
Std Dev 0.7663

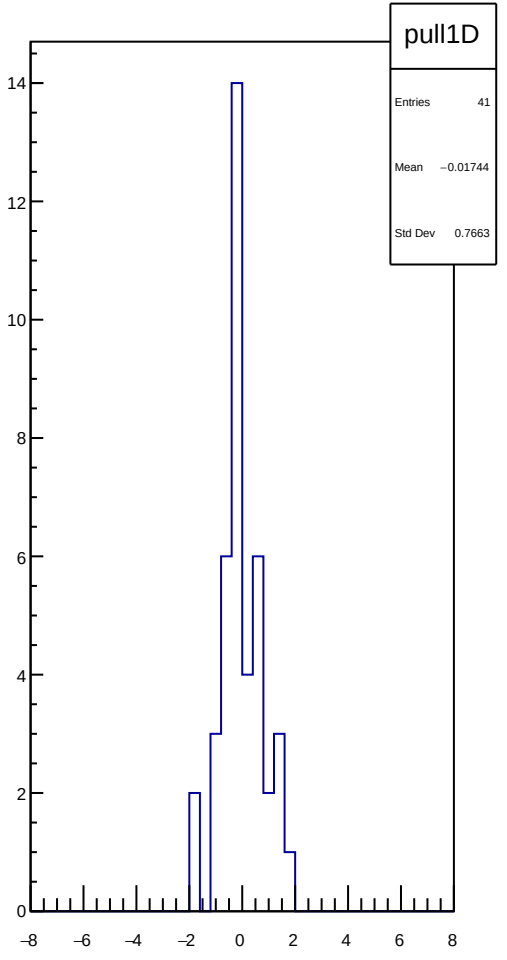

reg_asym_sam7_rms vs run
χ² / ndf 249.6 / 40
p0 64.2 ± 0.0716
69
68
67
66
65
64
63
62
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

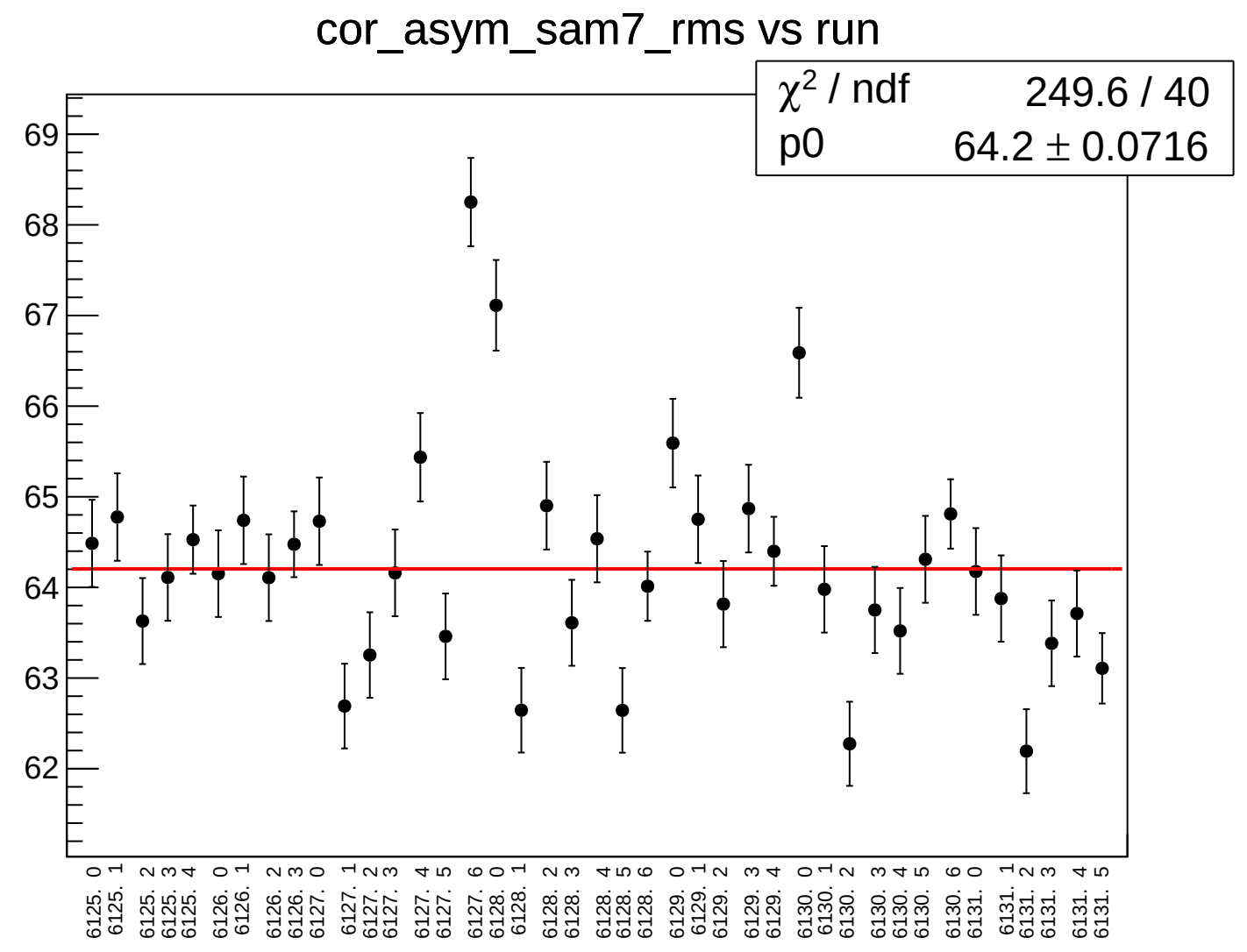

asym_sam7_reg_correction_mean vs run
χ² / ndf 31.04 / 40
p0 −599.1 ± 596.7
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −597.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

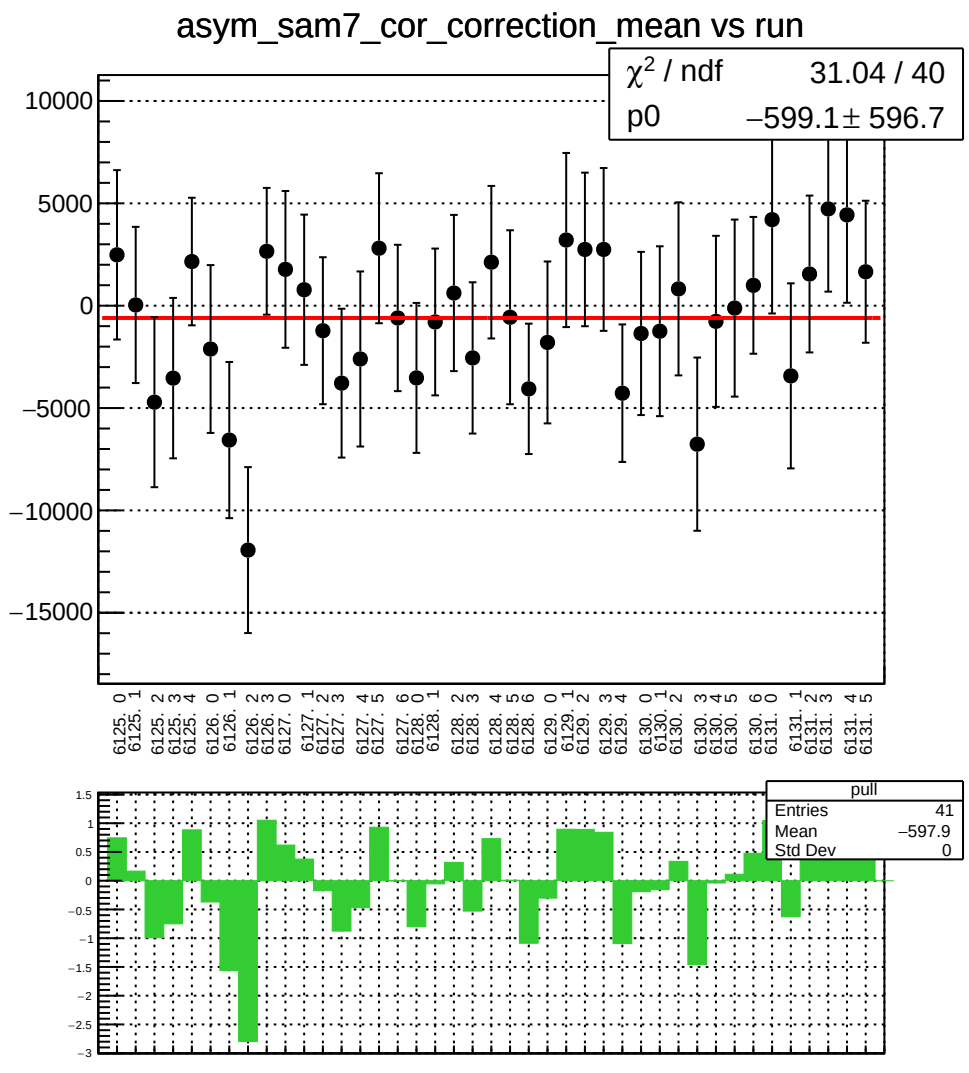

pull1D
Entries 41
Mean −0.004622
Std Dev 0.8701
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

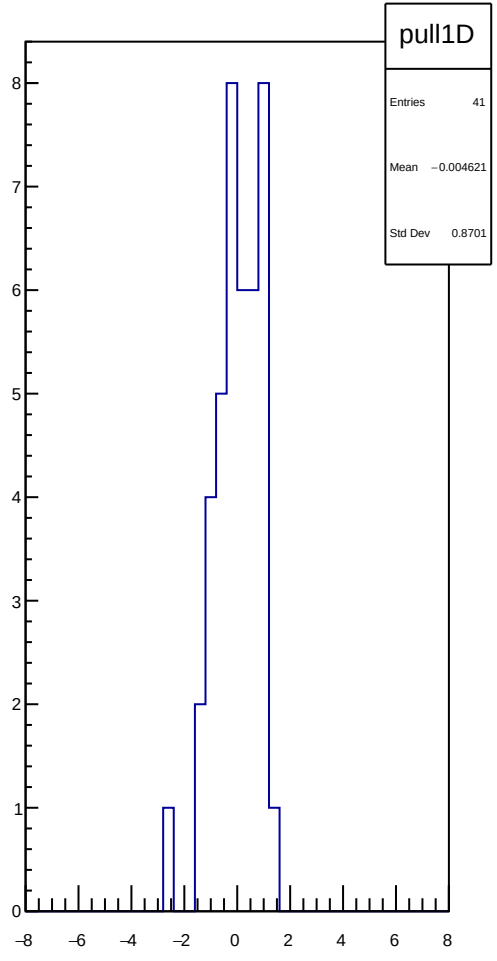

asym_sam7_reg_correction_rms vs run
χ² / ndf 3075 / 40
p0 377.7 ± 0.4219
440
420
400
380
360
340
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

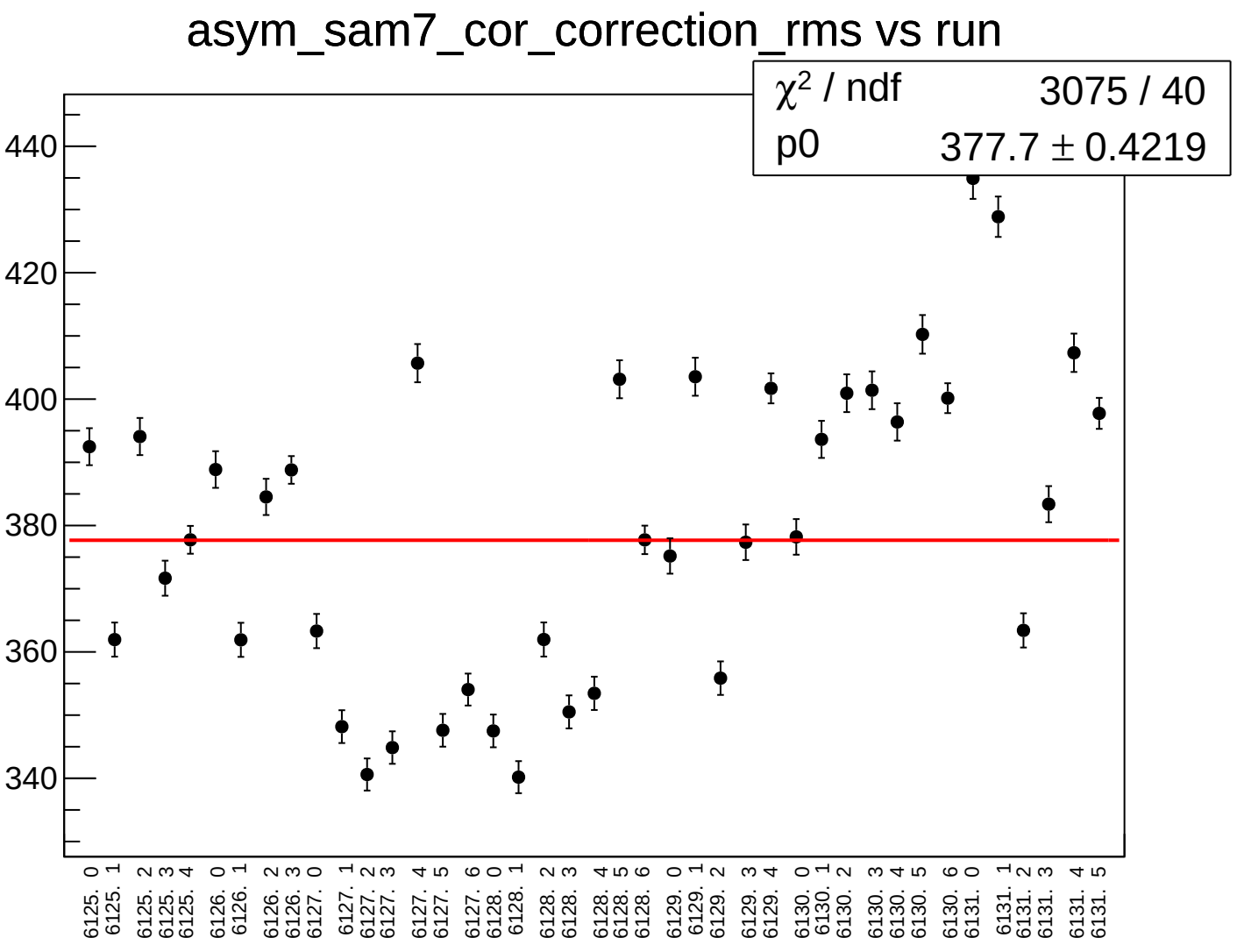

cor_asym_sam7_mean vs run
χ² / ndf 24.09 / 40
p0 −157.6 ± 101.3
pull
Entries 41
Mean −23.04
Std Dev 0

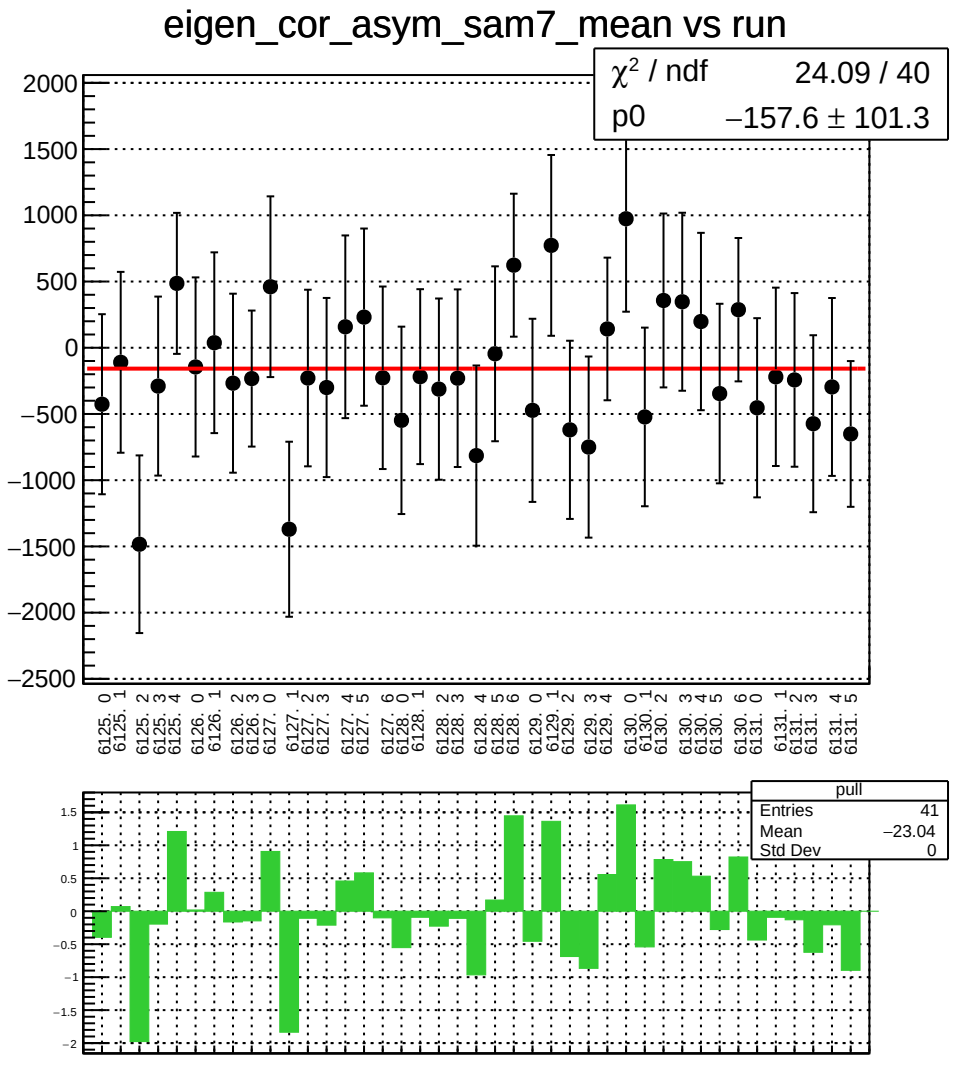

pull1D
Entries 41
Mean −0.01744
Std Dev 0.7663

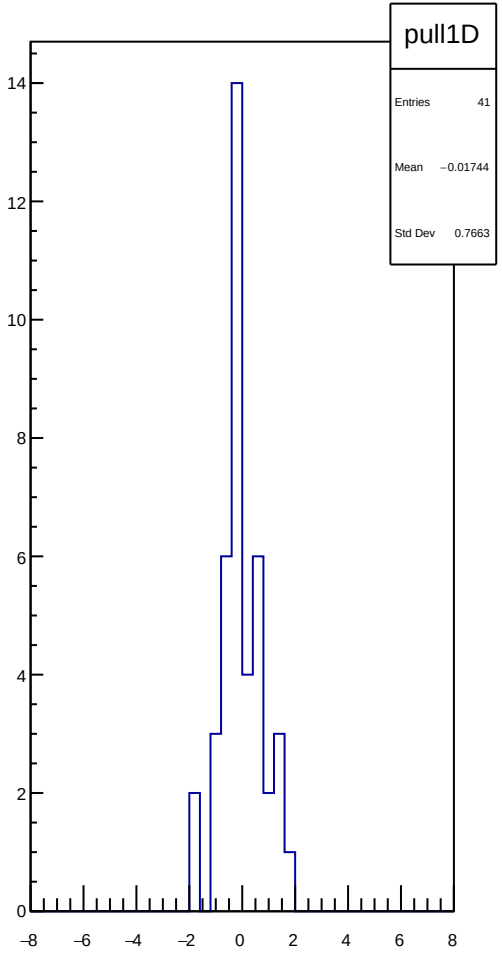

cor_asym_sam7_rms vs run
χ² / ndf 249.6 / 40
p0 64.2 ± 0.0716
69
68
67
66
65
64
63
62
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

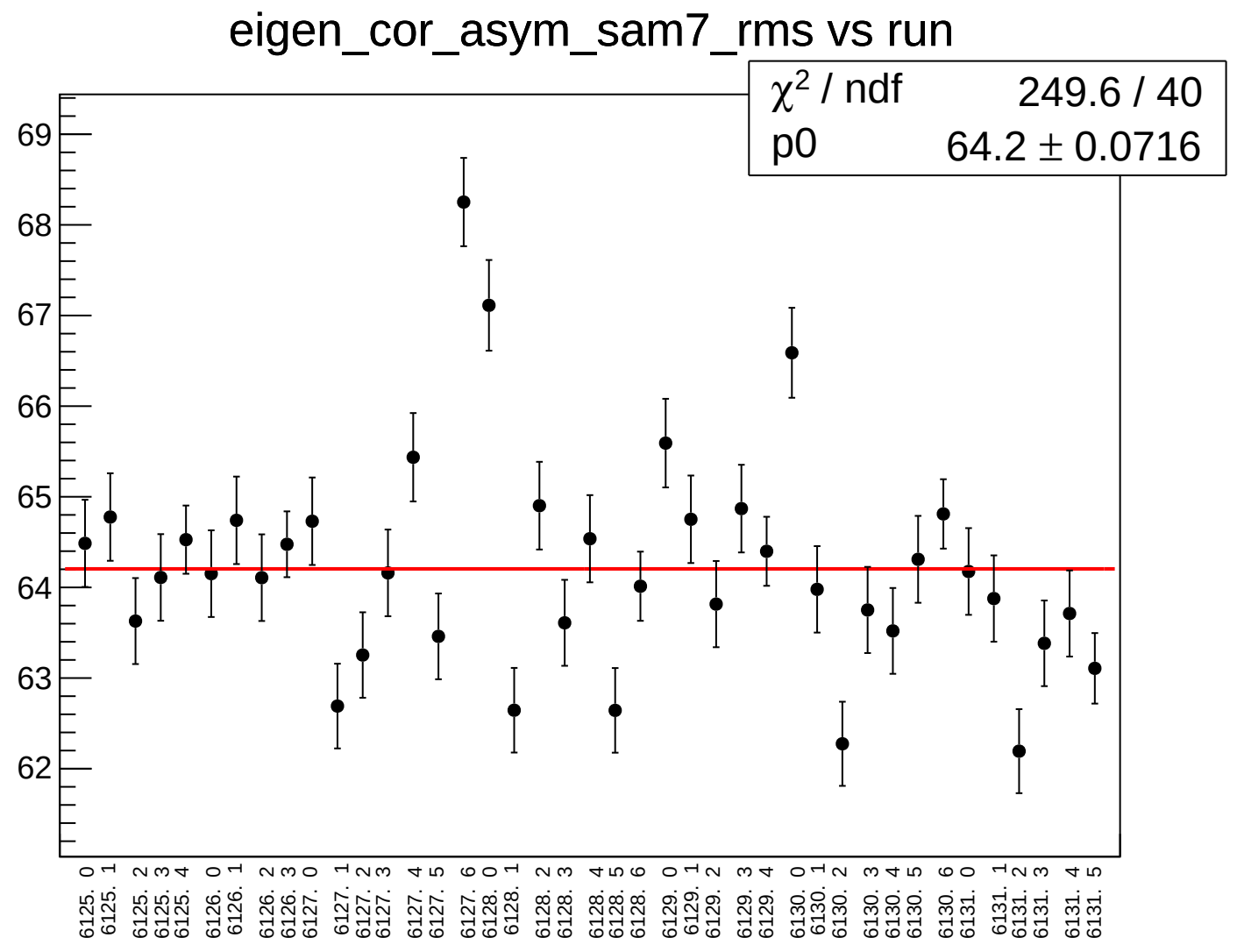

asym_sam7_cor_correction_mean vs run
χ² / ndf 31.04 / 40
p0 −599.1 ± 596.7
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −597.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

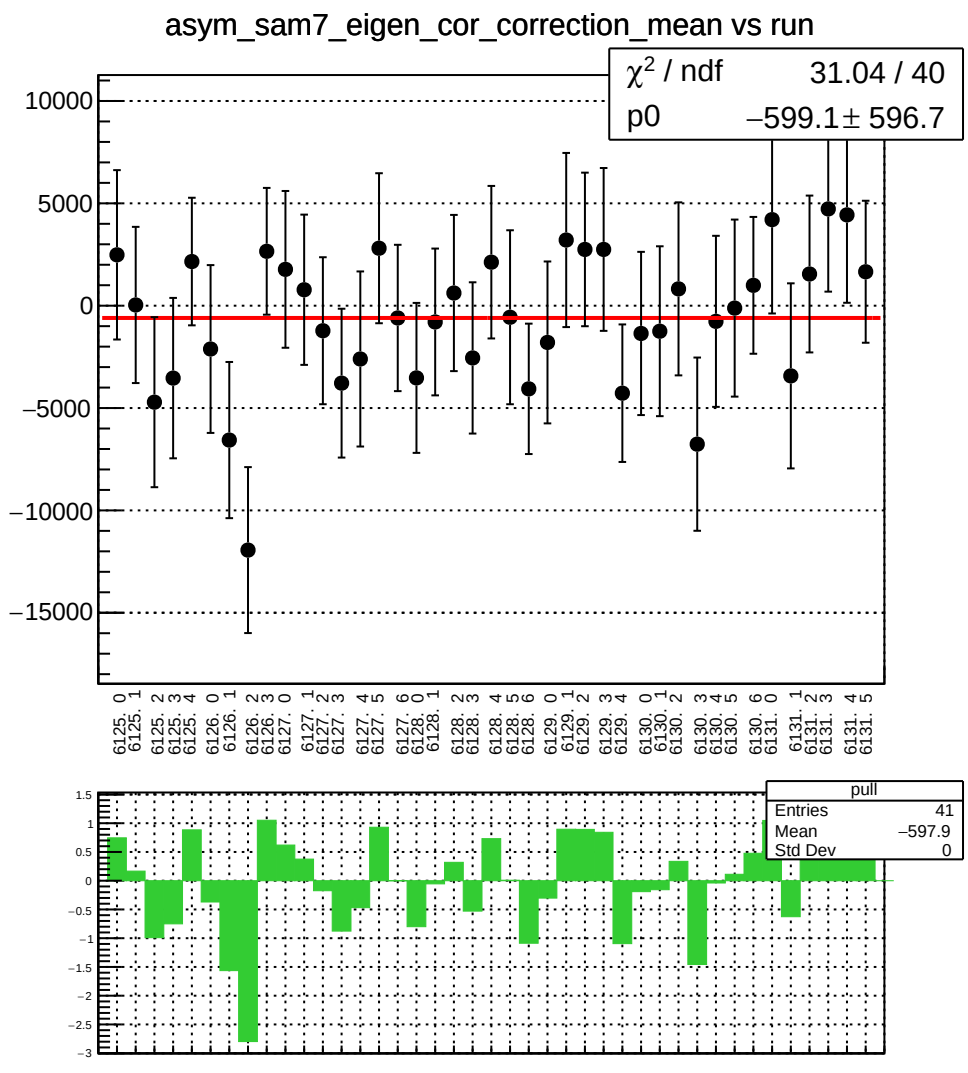

pull1D
Entries 41
Mean −0.004621
Std Dev 0.8701
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

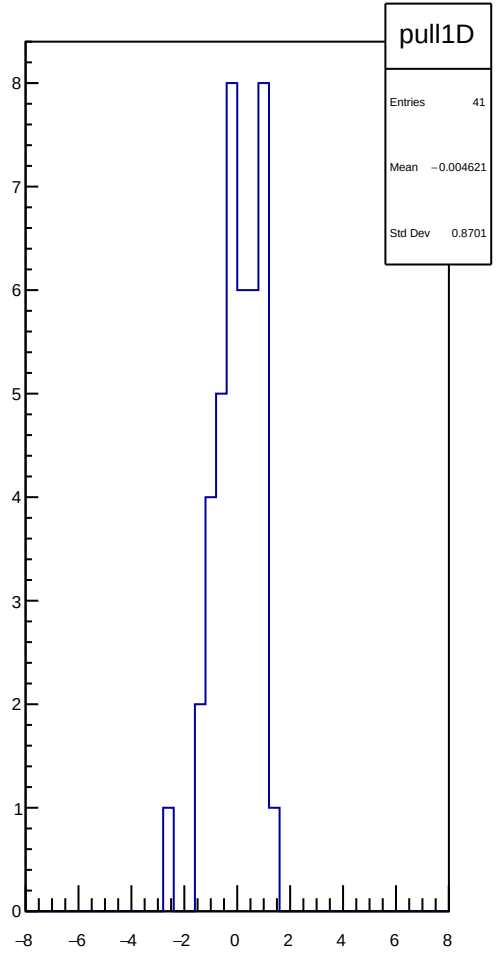

asym_sam7_cor_correction_rms vs run
χ² / ndf 3075 / 40
p0 377.7 ± 0.4219
440
420
400
380
360
340
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

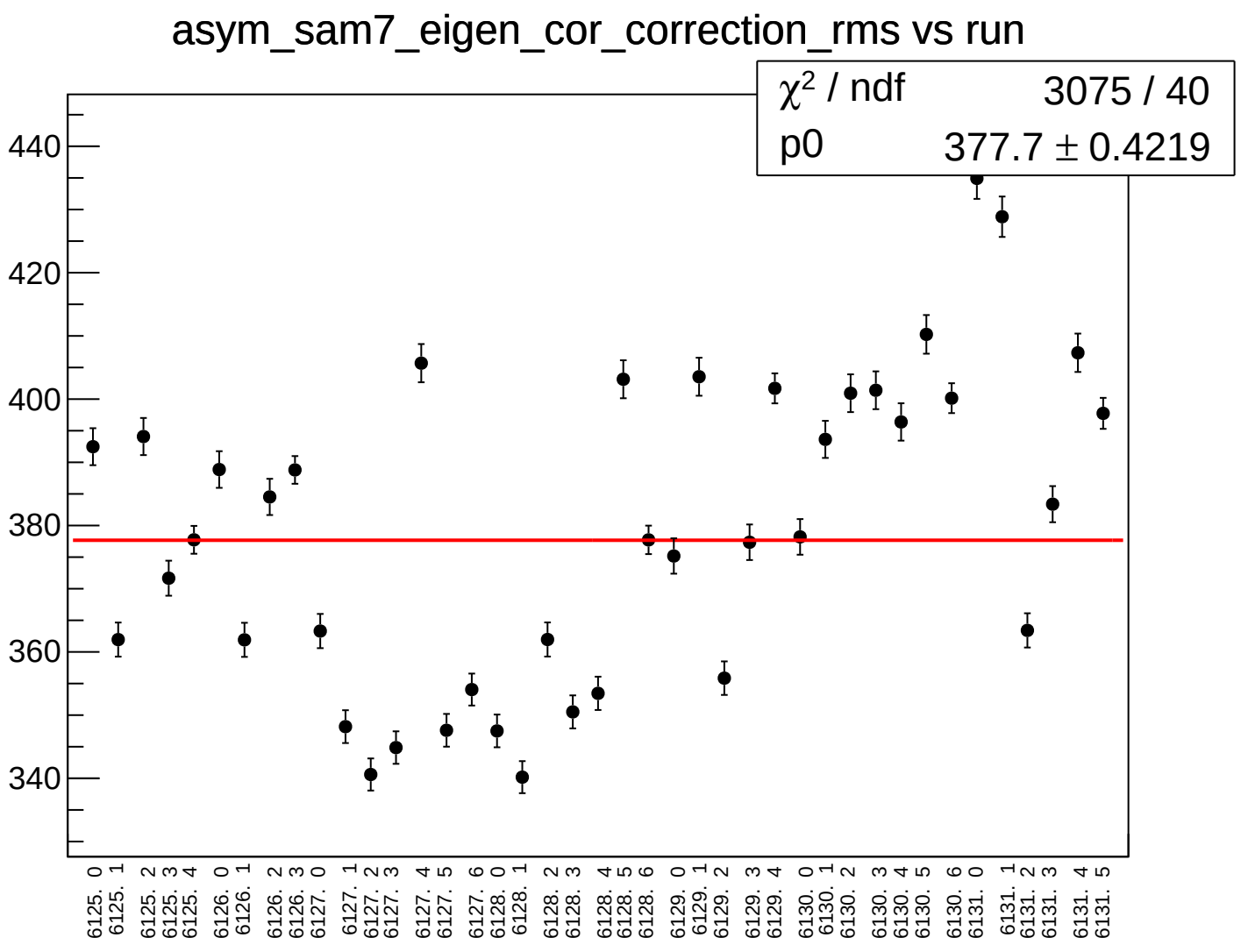

eigen_cor_asym_sam7_mean vs run
χ² / ndf 24.09 / 40
p0 −157.6 ± 101.3
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −23.04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

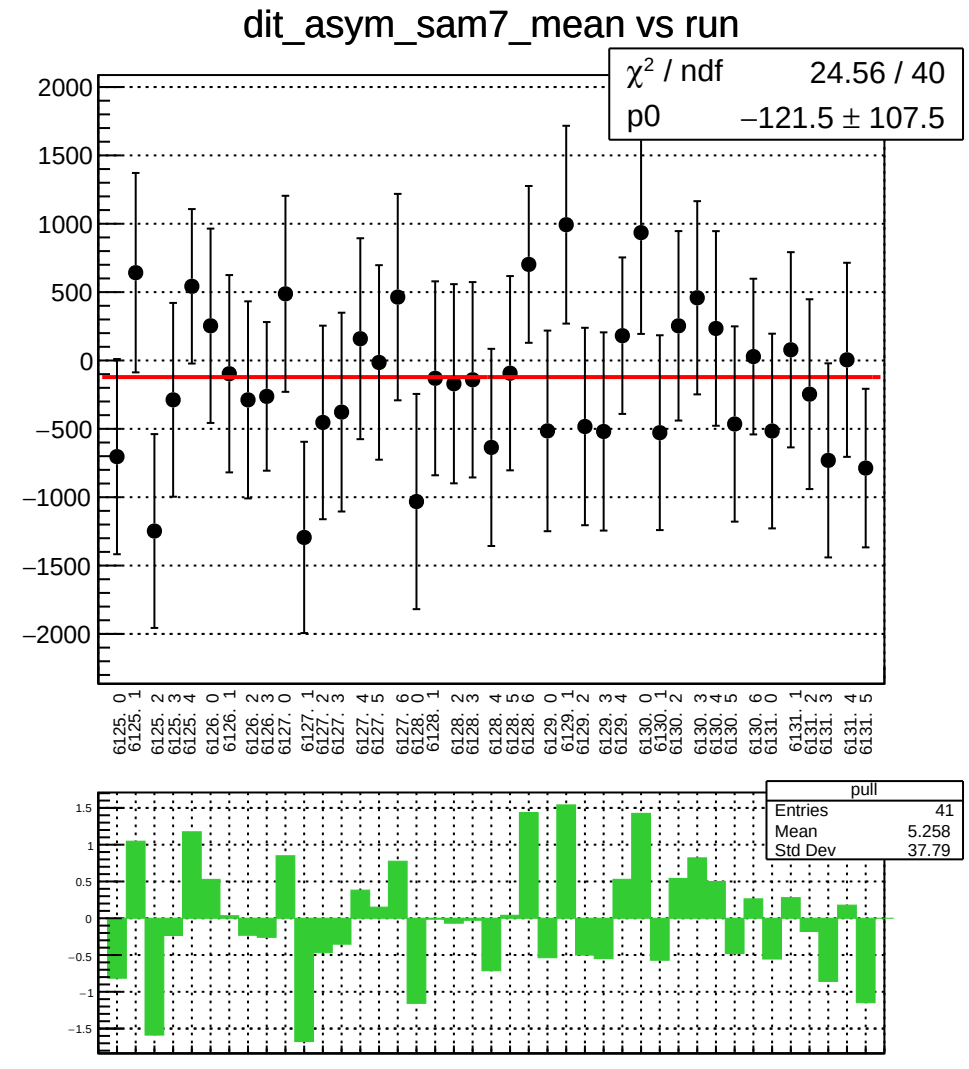

pull1D
Entries 41
Mean −0.01744
Std Dev 0.7663
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

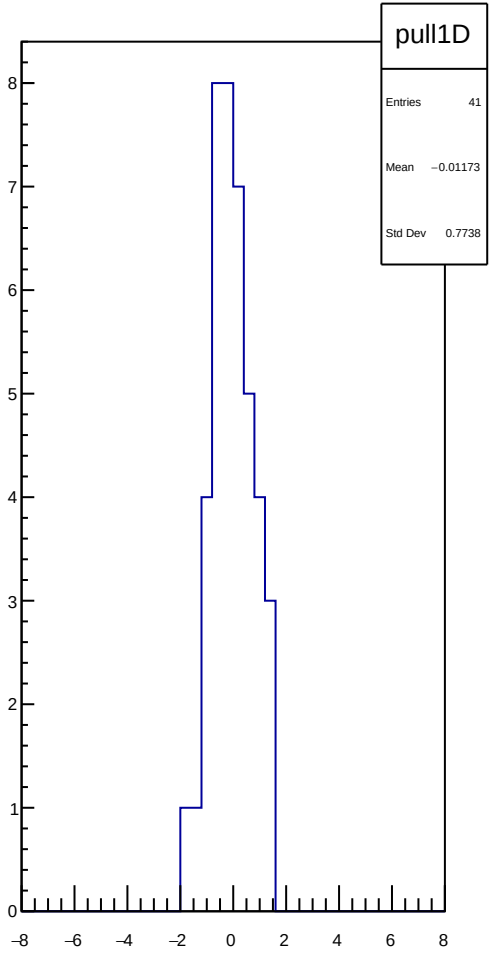

eigen_cor_asym_sam7_rms vs run
χ² / ndf 249.6 / 40
p0 64.2 ± 0.0716
69
68
67
66
65
64
63
62
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

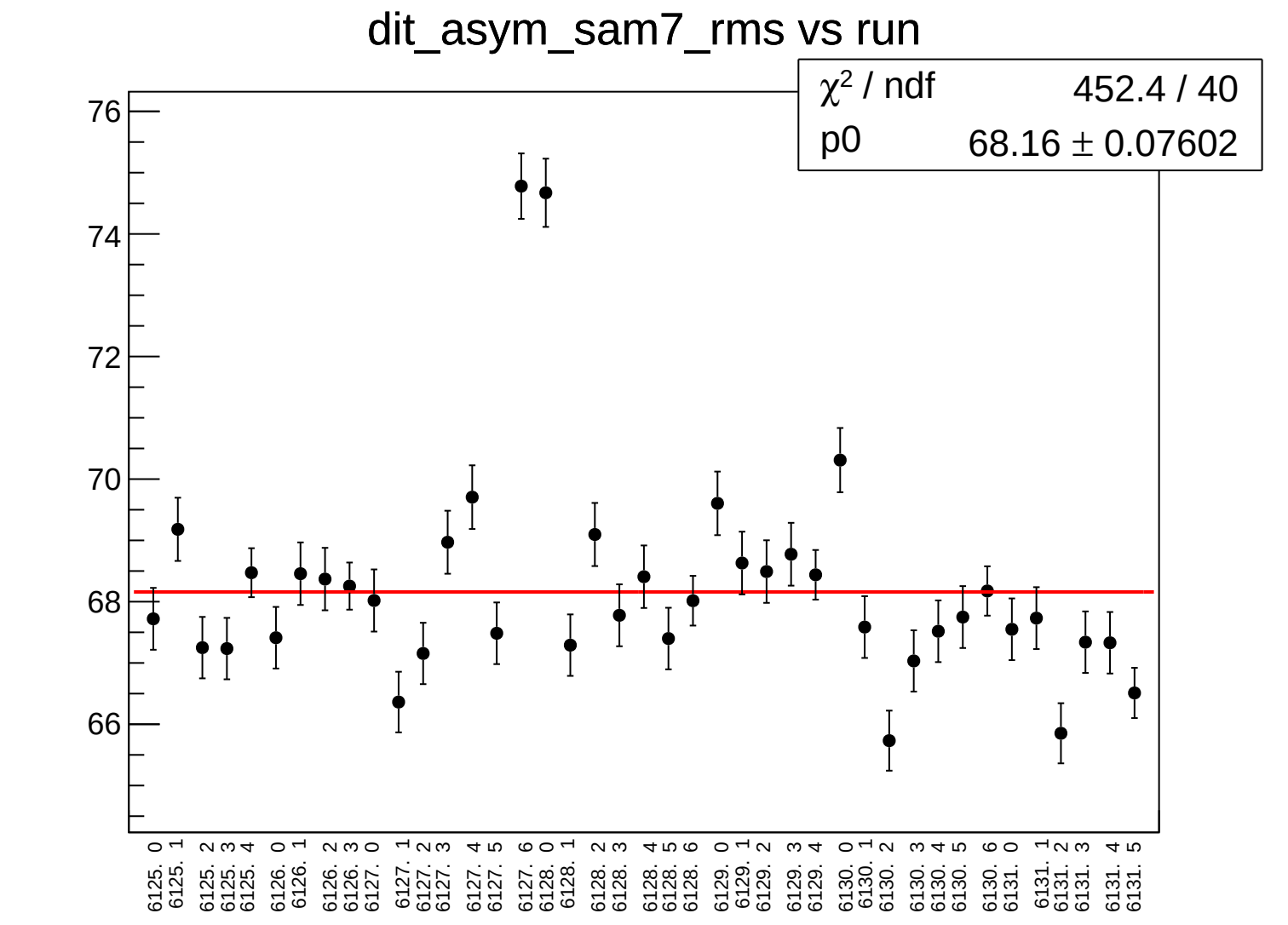

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 31.04 / 40
p0 −599.1 ± 596.7
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −597.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

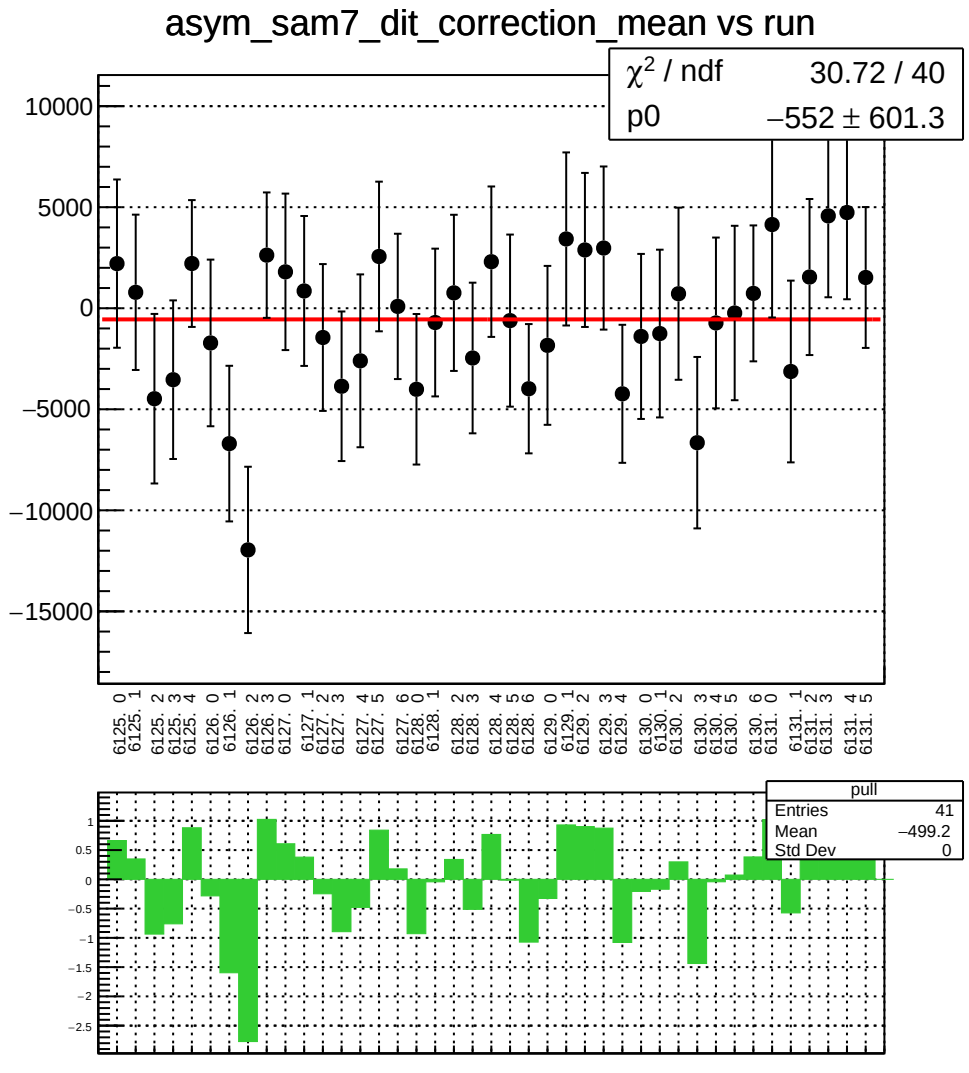

pull1D
Entries 41
Mean −0.004621
Std Dev 0.8701
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

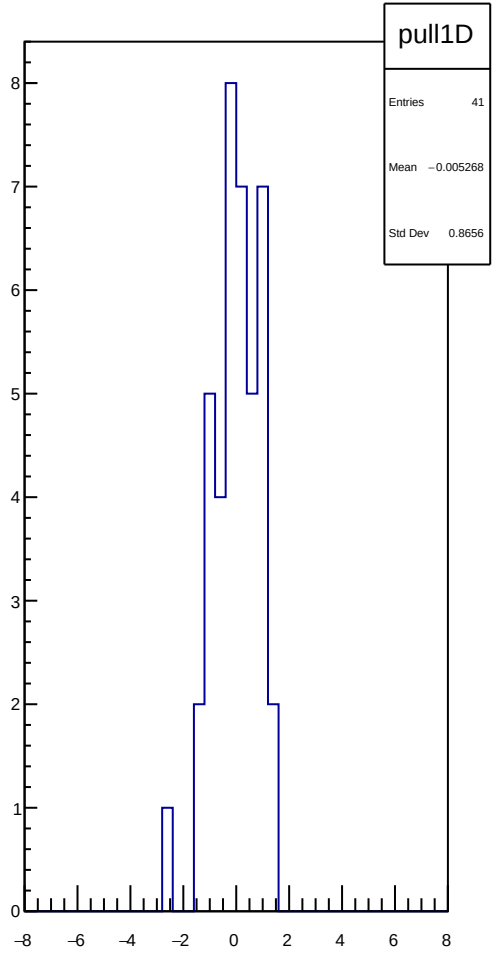

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 3075 / 40
p0 377.7 ± 0.4219
440
420
400
380
360
340
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

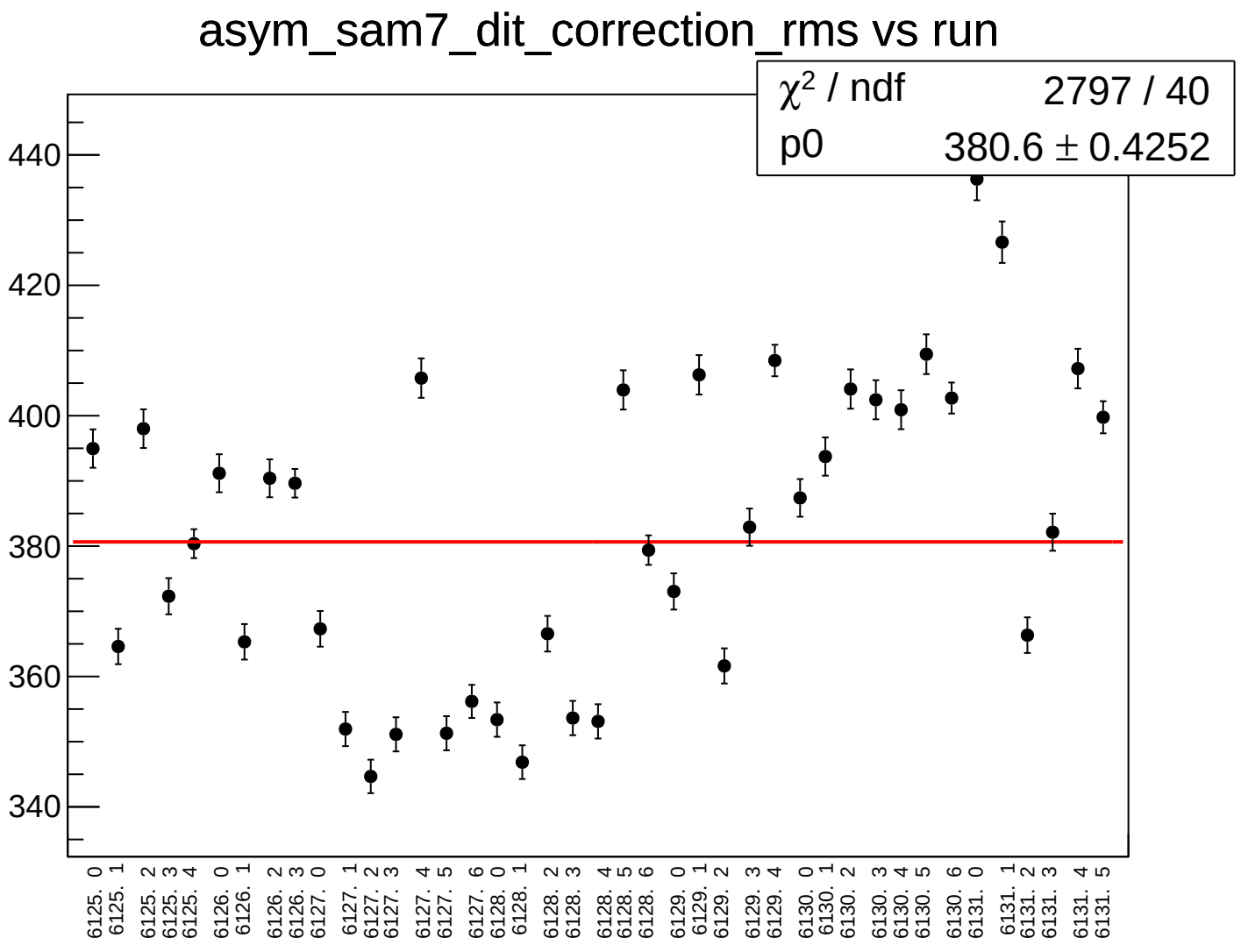

dit_asym_sam7_mean vs run
χ² / ndf 24.56 / 40
p0 −121.5 ± 107.5
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 5.258
Std Dev 37.79
1.5
1
0.5
0
−0.5
−1
−1.5

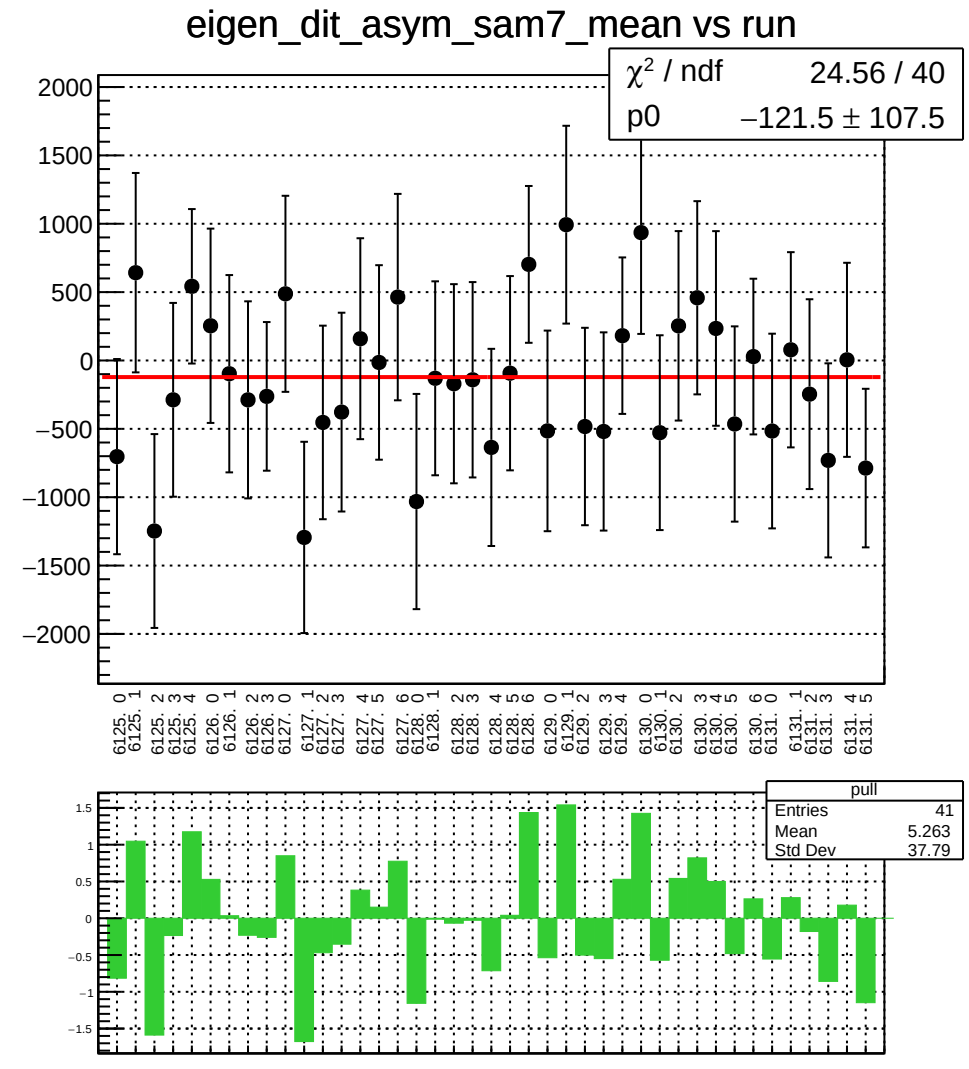

pull1D
Entries 41
Mean −0.01173
Std Dev 0.7738
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

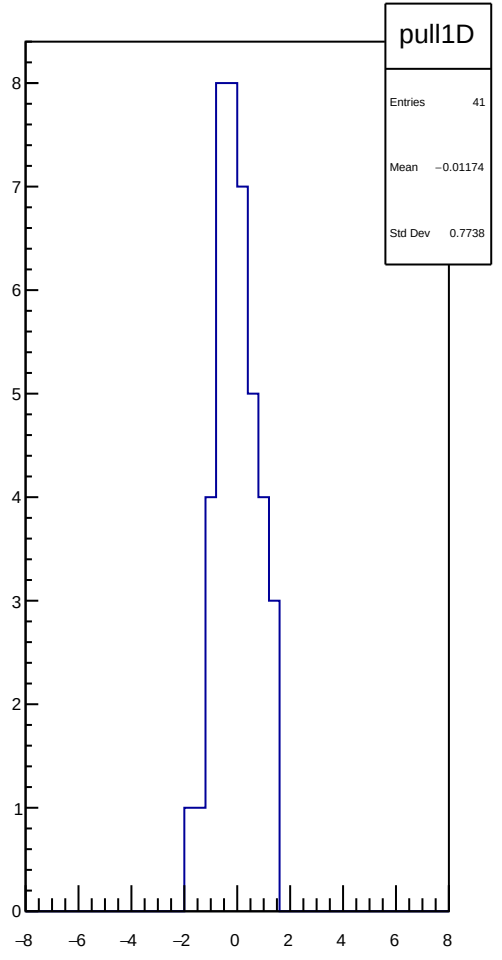

dit_asym_sam7_rms vs run
χ² / ndf 452.4 / 40
p0 68.16 ± 0.07602
76
74
72
70
68
66
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

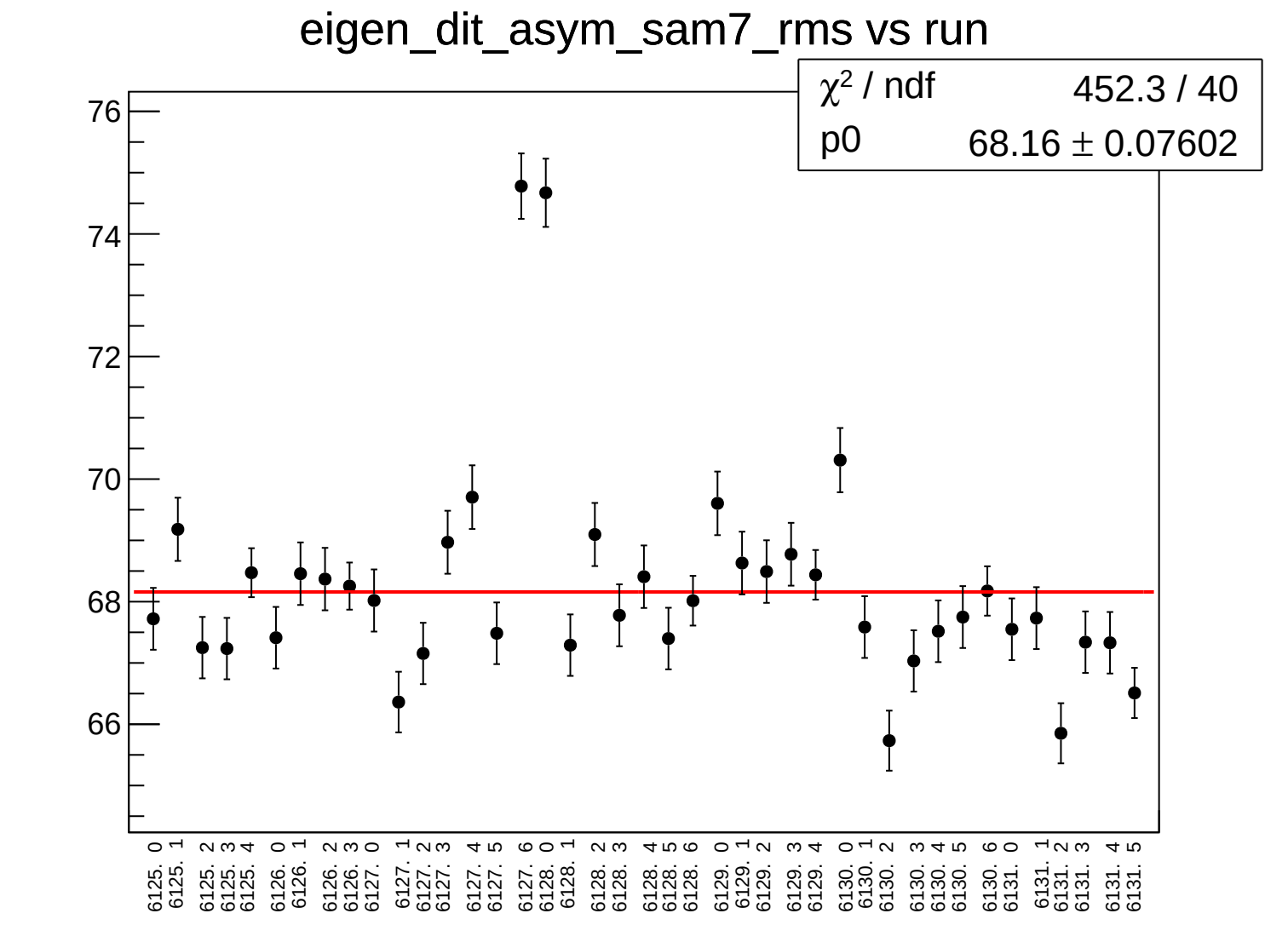

asym_sam7_dit_correction_mean vs run
χ² / ndf 30.72 / 40
p0 −552 ± 601.3
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −499.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

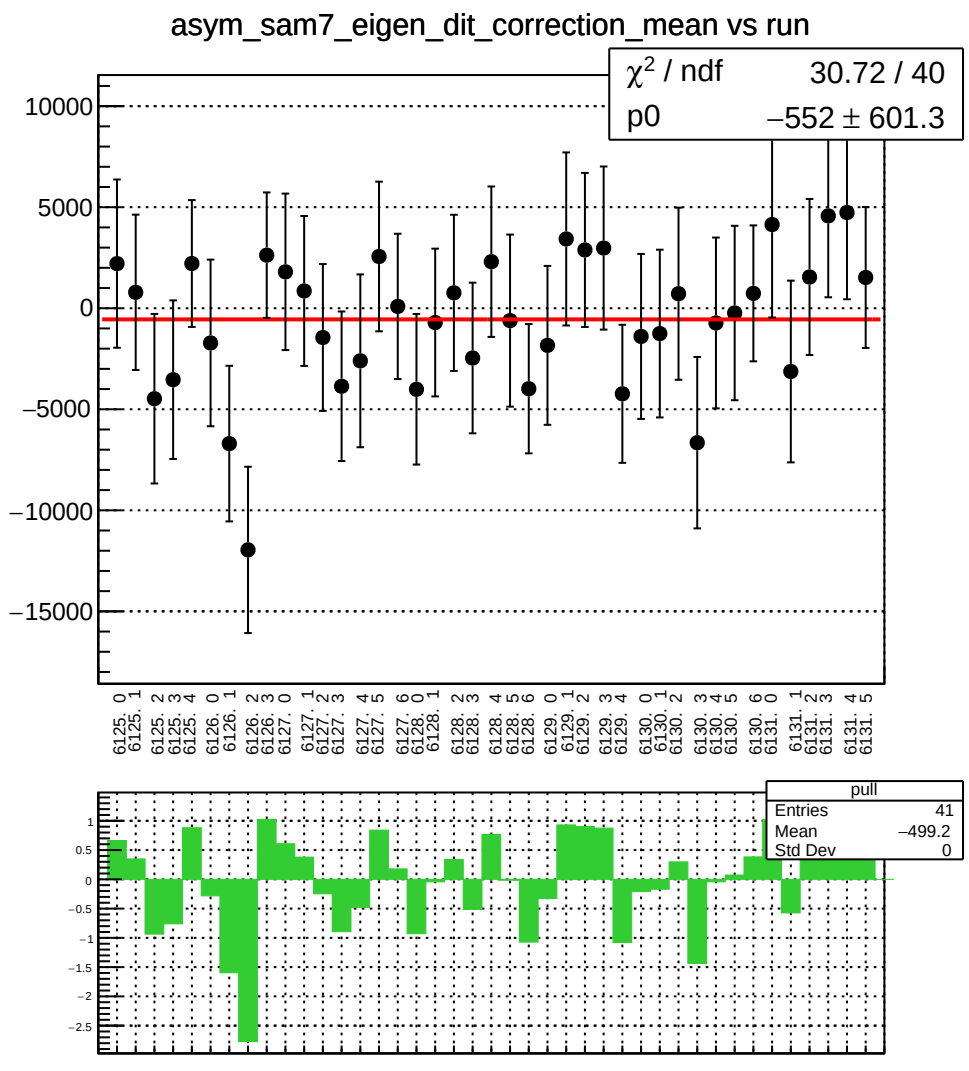

pull1D
Entries 41
Mean −0.005268
Std Dev 0.8656
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

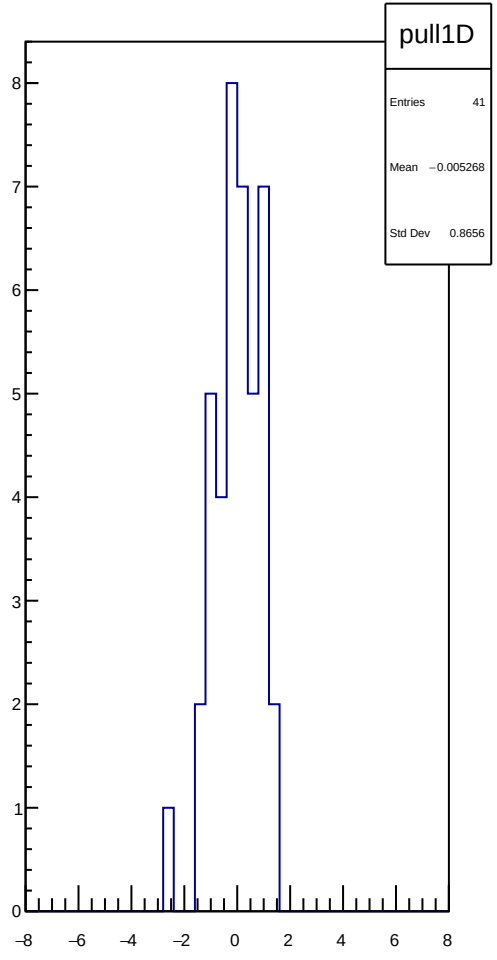

asym_sam7_dit_correction_rms vs run
χ² / ndf 2797 / 40
p0 380.6 ± 0.4252
440
420
400
380
360
340
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

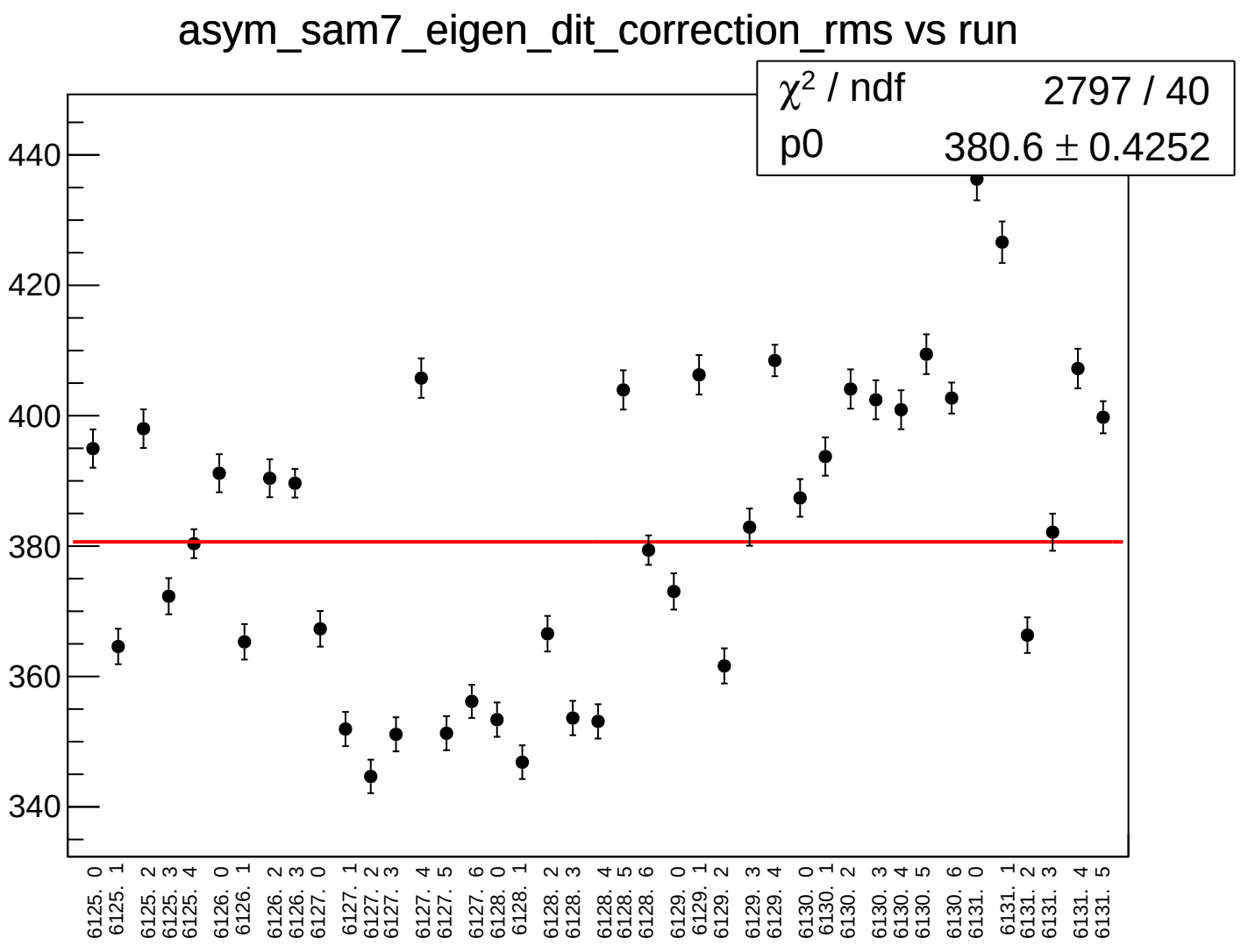

eigen_dit_asym_sam7_mean vs run
χ² / ndf 24.56 / 40
p0 −121.5 ± 107.5
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 5.263
Std Dev 37.79
1.5
1
0.5
0
−0.5
−1
−1.5

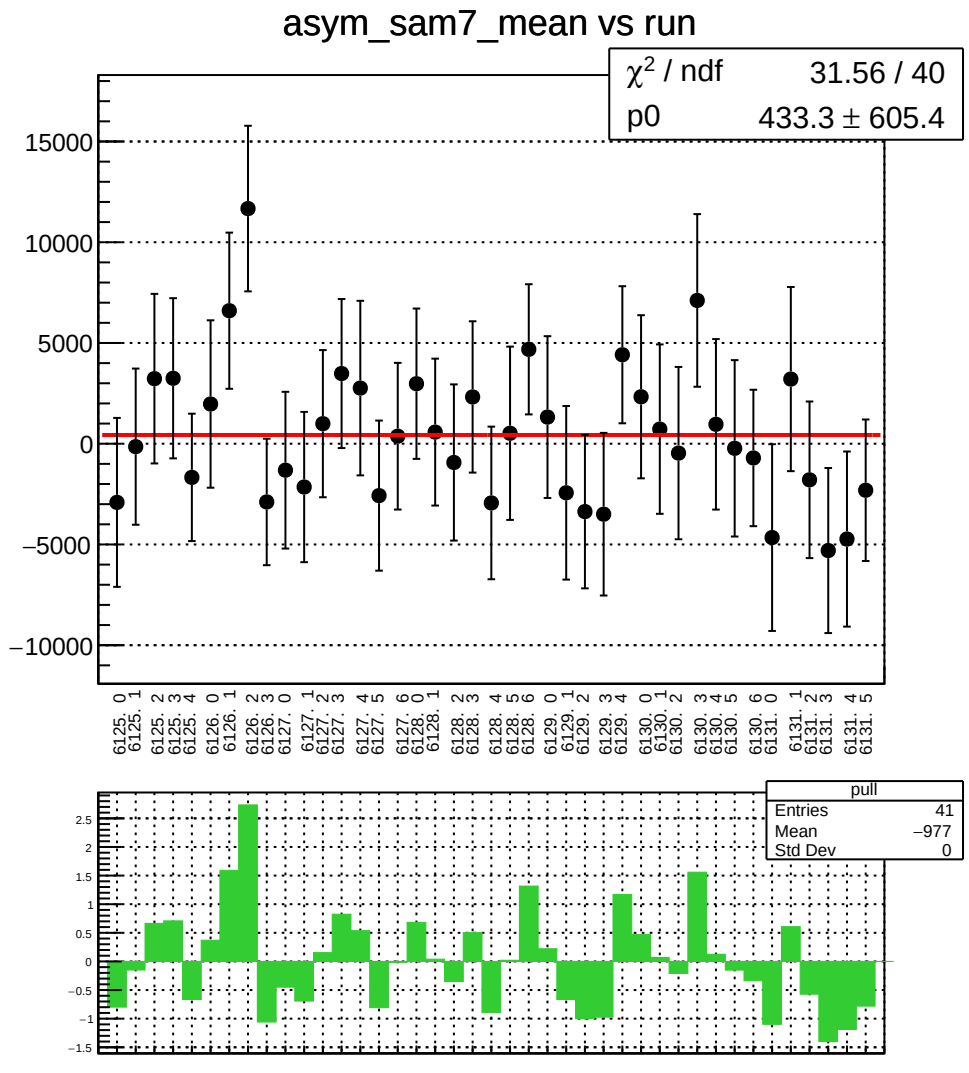

pull1D
Entries 41
Mean −0.01174
Std Dev 0.7738
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

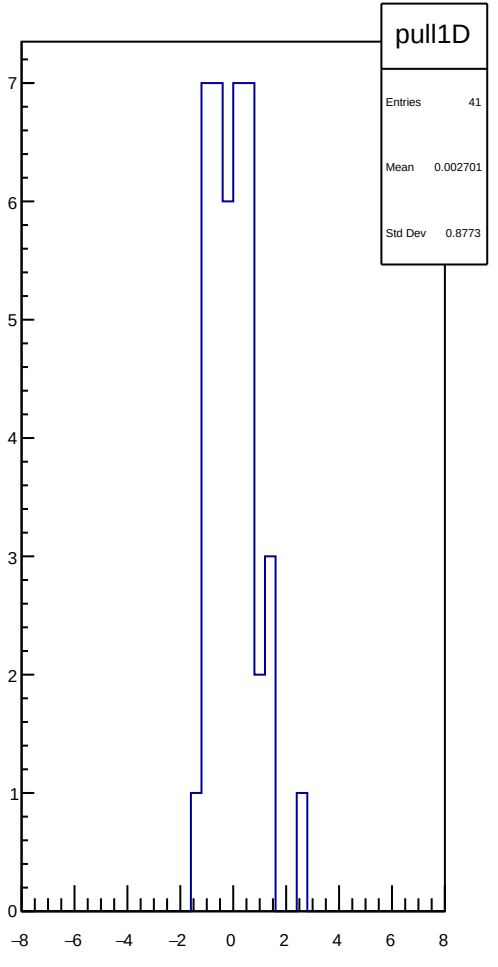

eigen_dit_asym_sam7_rms vs run
χ² / ndf 452.3 / 40
p0 68.16 ± 0.07602
76
74
72
70
68
66
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

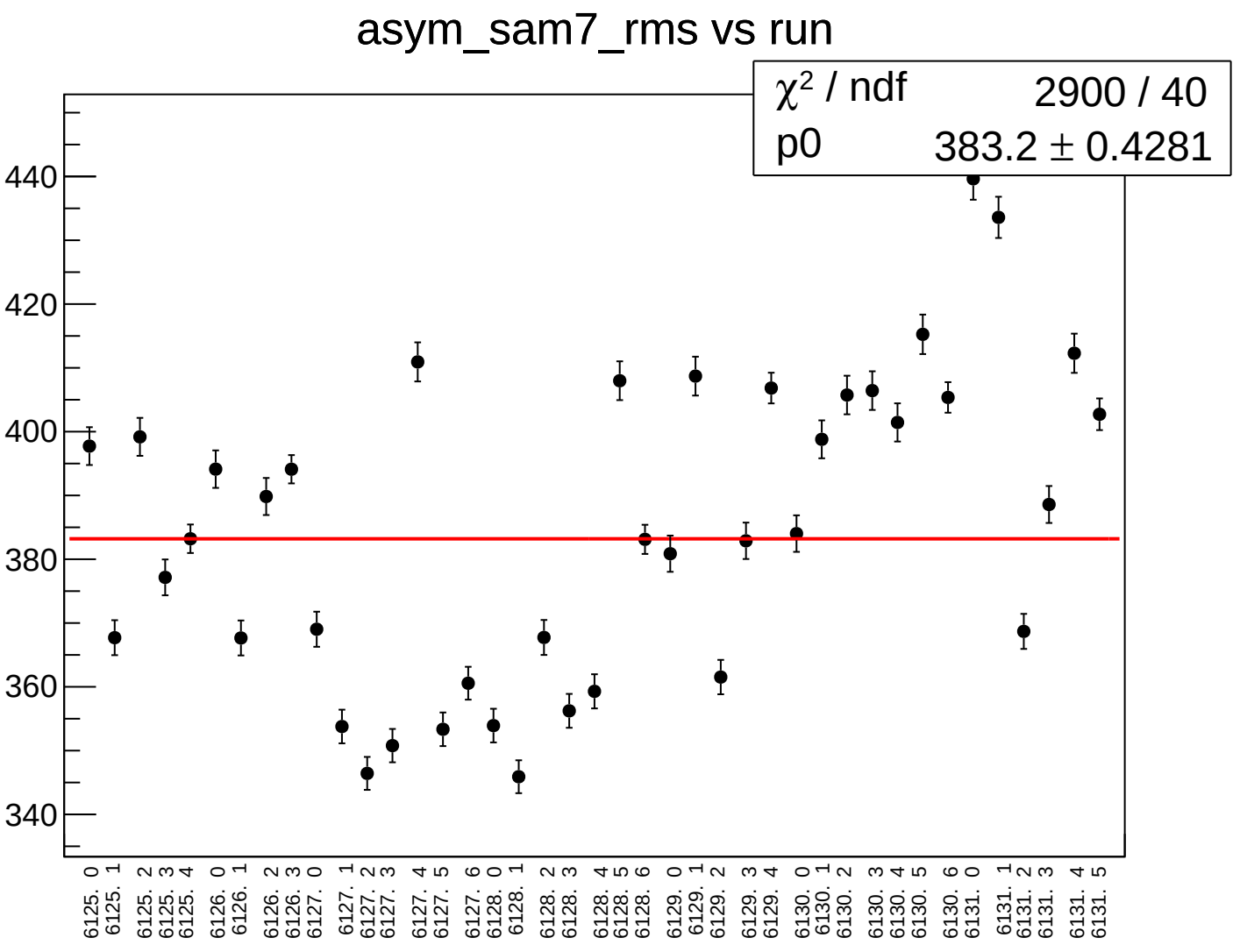

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 30.72 / 40
p0 −552 ± 601.3
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −499.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

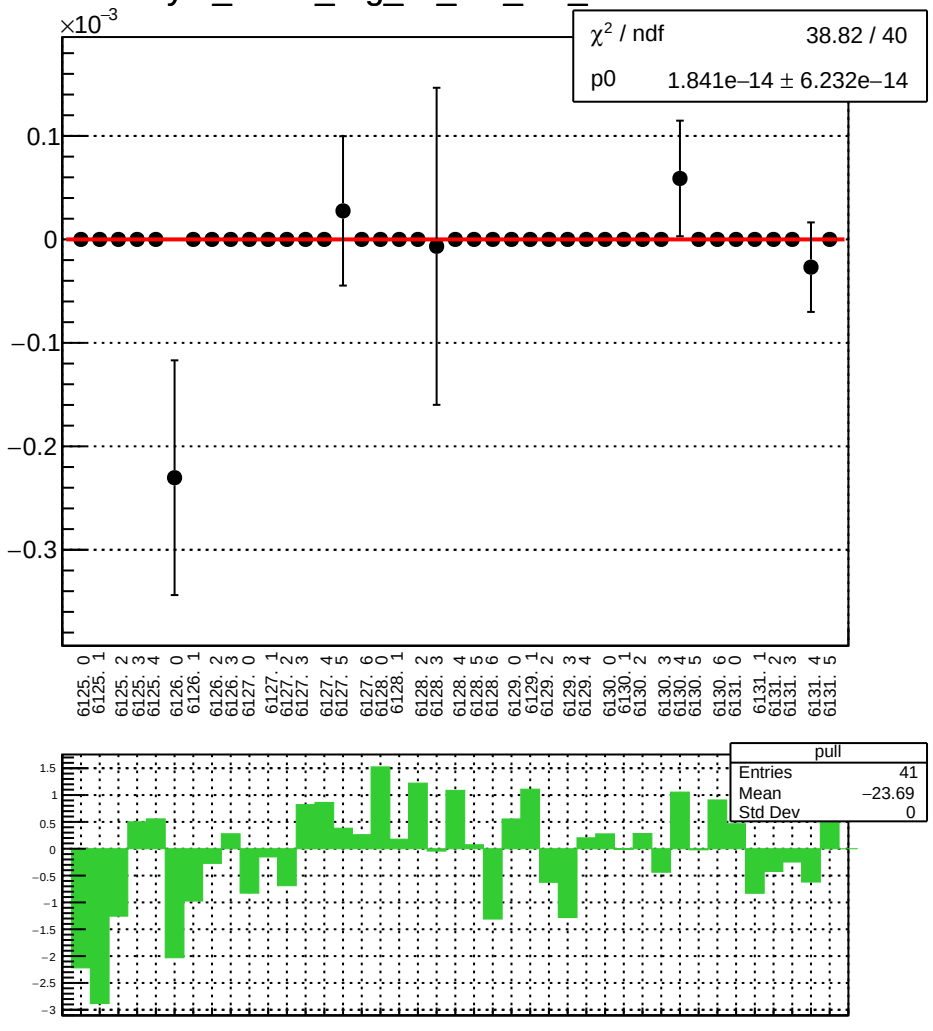

pull1D
Entries 41
Mean −0.005268
Std Dev 0.8656
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

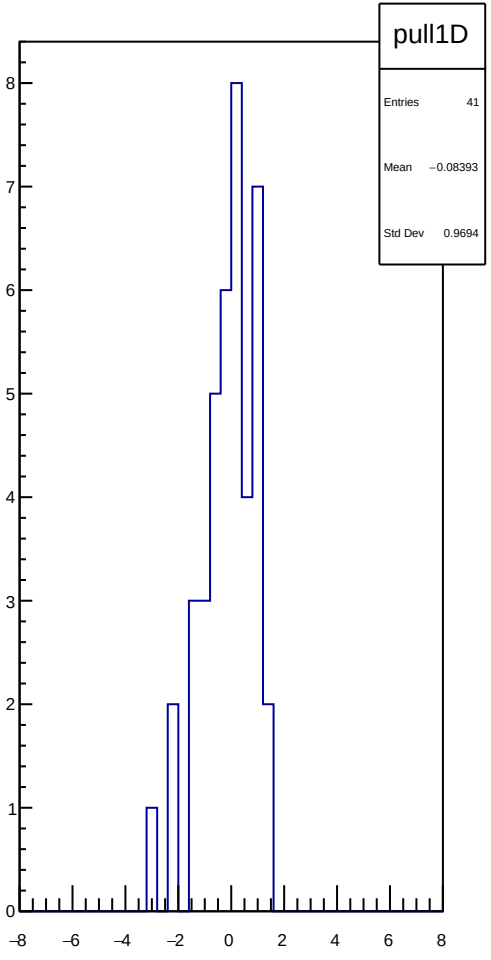

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 2797 / 40
p0 380.6 ± 0.4252
440
420
400
380
360
340
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

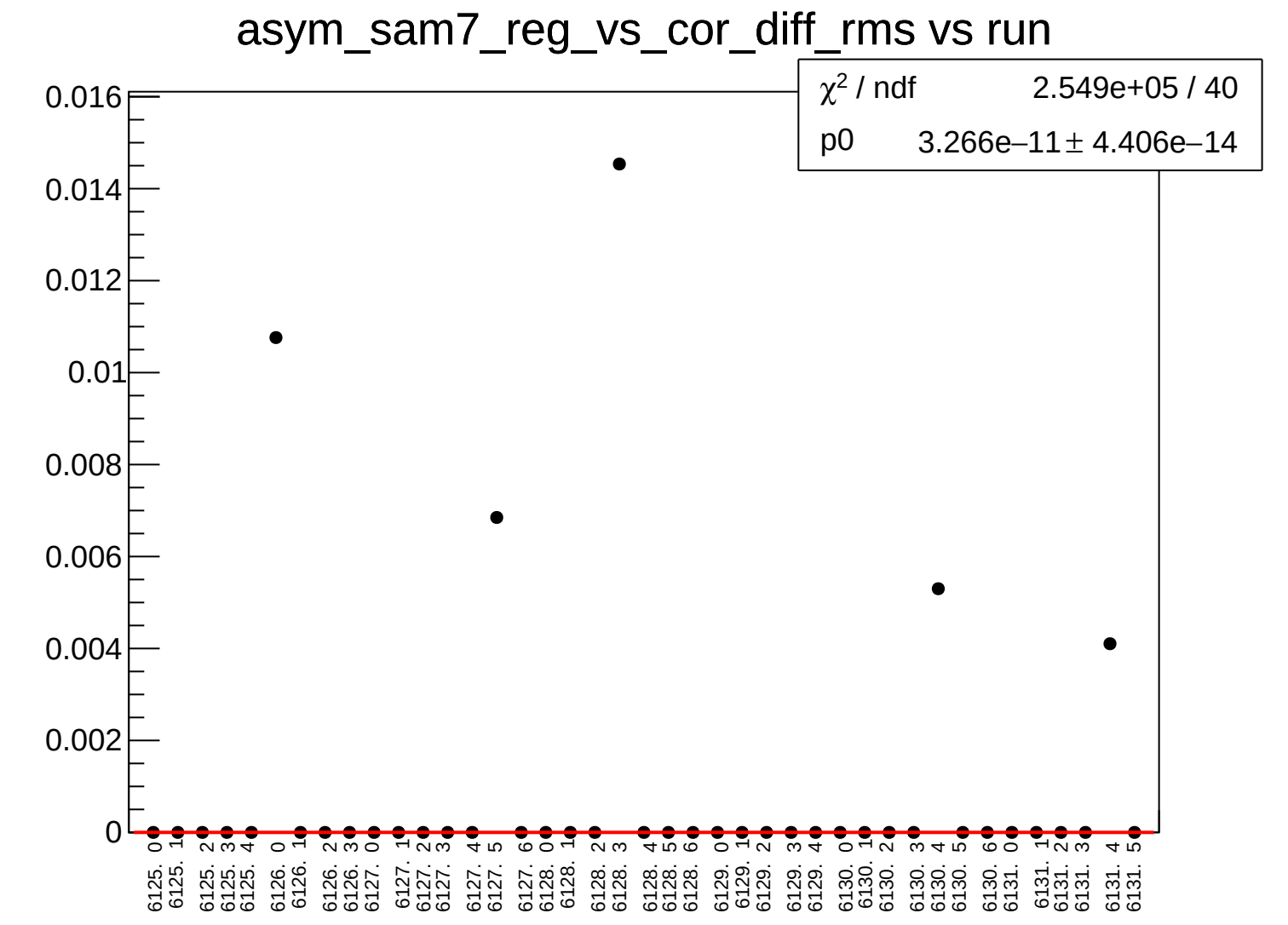

asym_sam7_mean vs run
χ² / ndf 31.56 / 40
p0 433.3 ± 605.4
15000
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −977
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

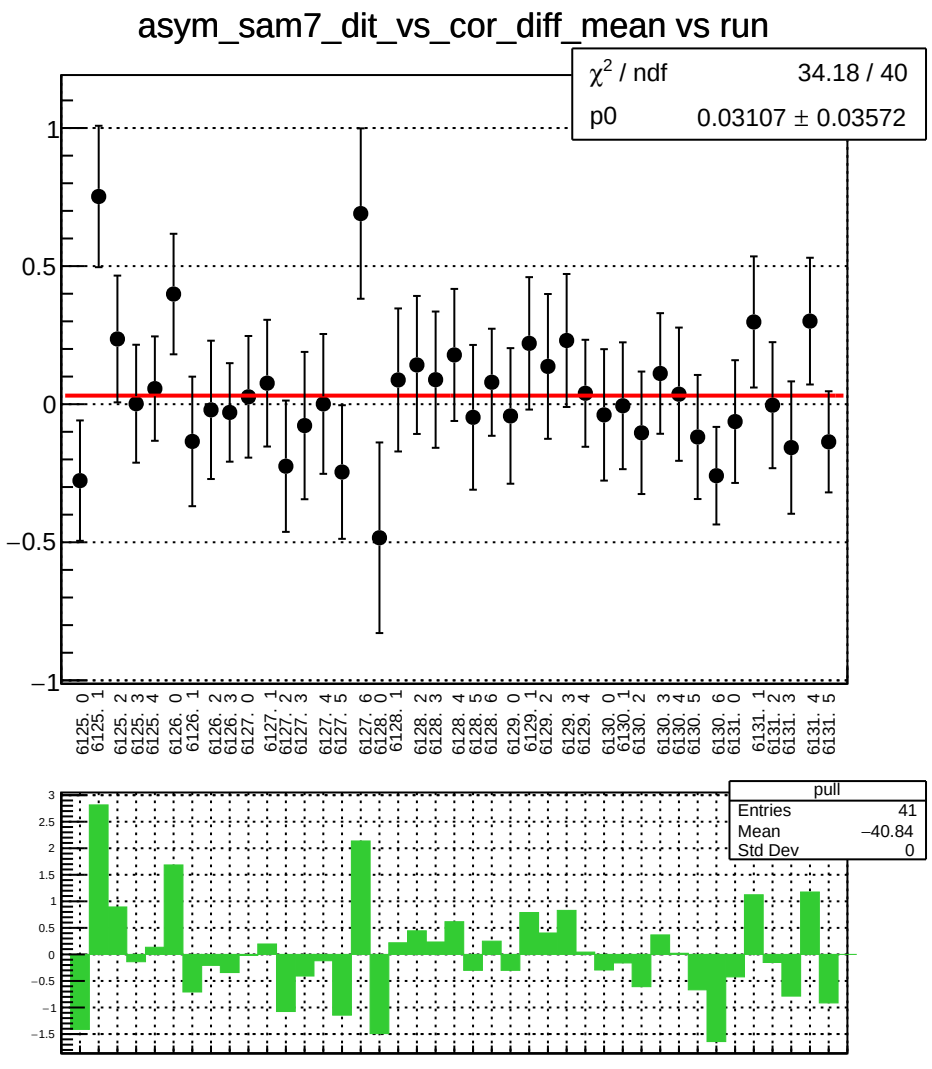

pull1D
Entries 41
Mean 0.002701
Std Dev 0.8773
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

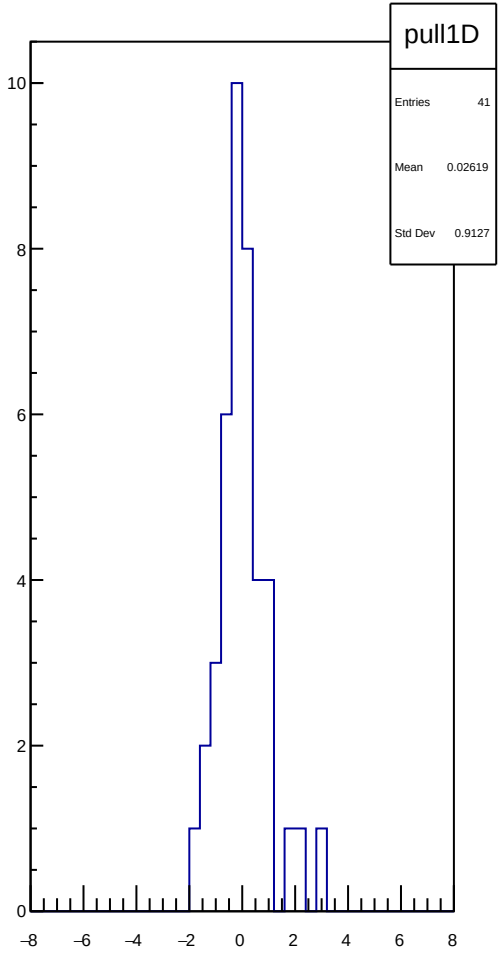

asym_sam7_rms vs run
χ² / ndf 2900 / 40
p0 383.2 ± 0.4281
440
420
400
380
360
340
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

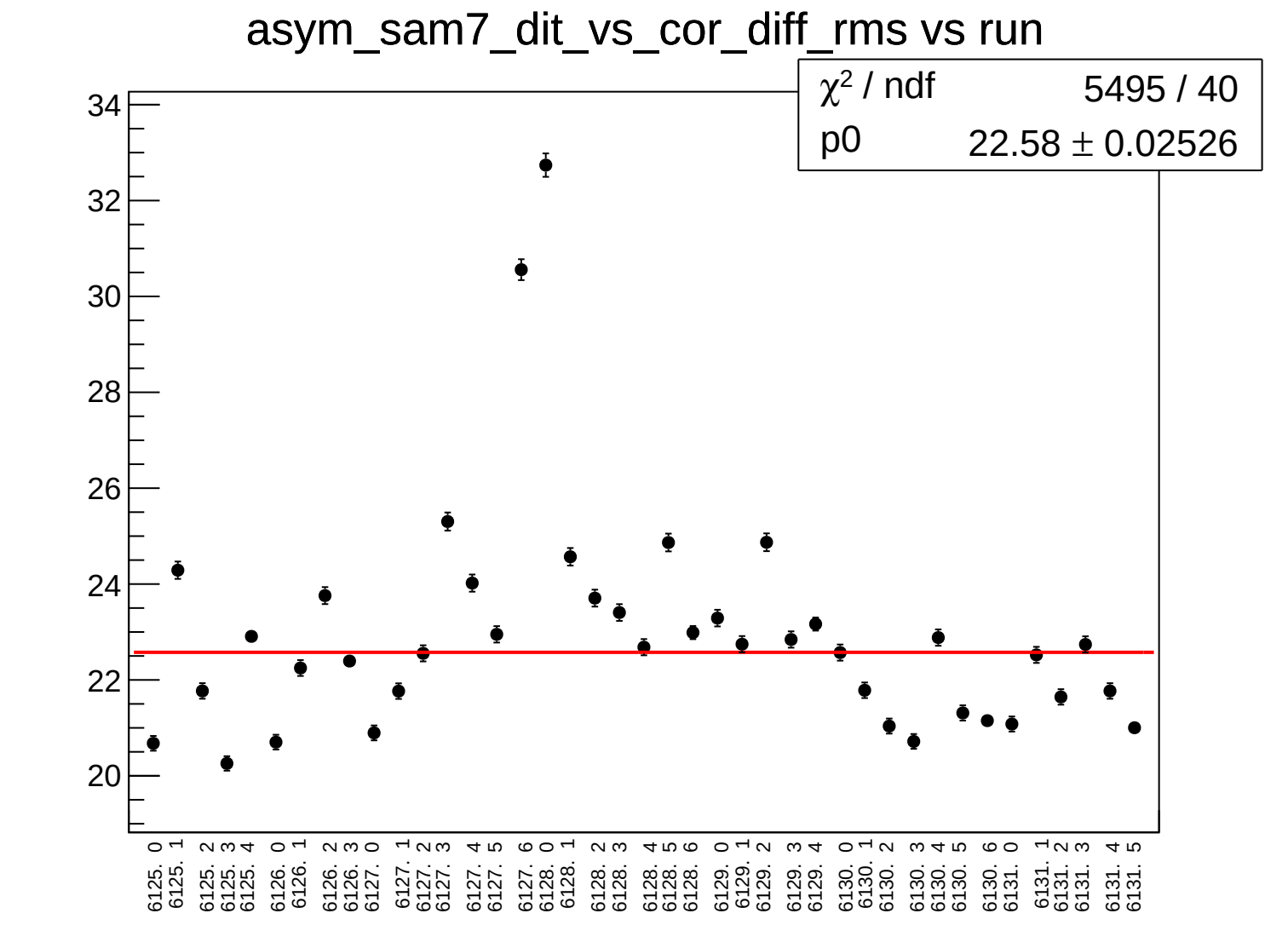

asym_sam7_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 38.82 / 40
p0 1.841e−14 ± 6.232e−14
0.1
0
−0.1
−0.2
−0.3
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −23.69
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

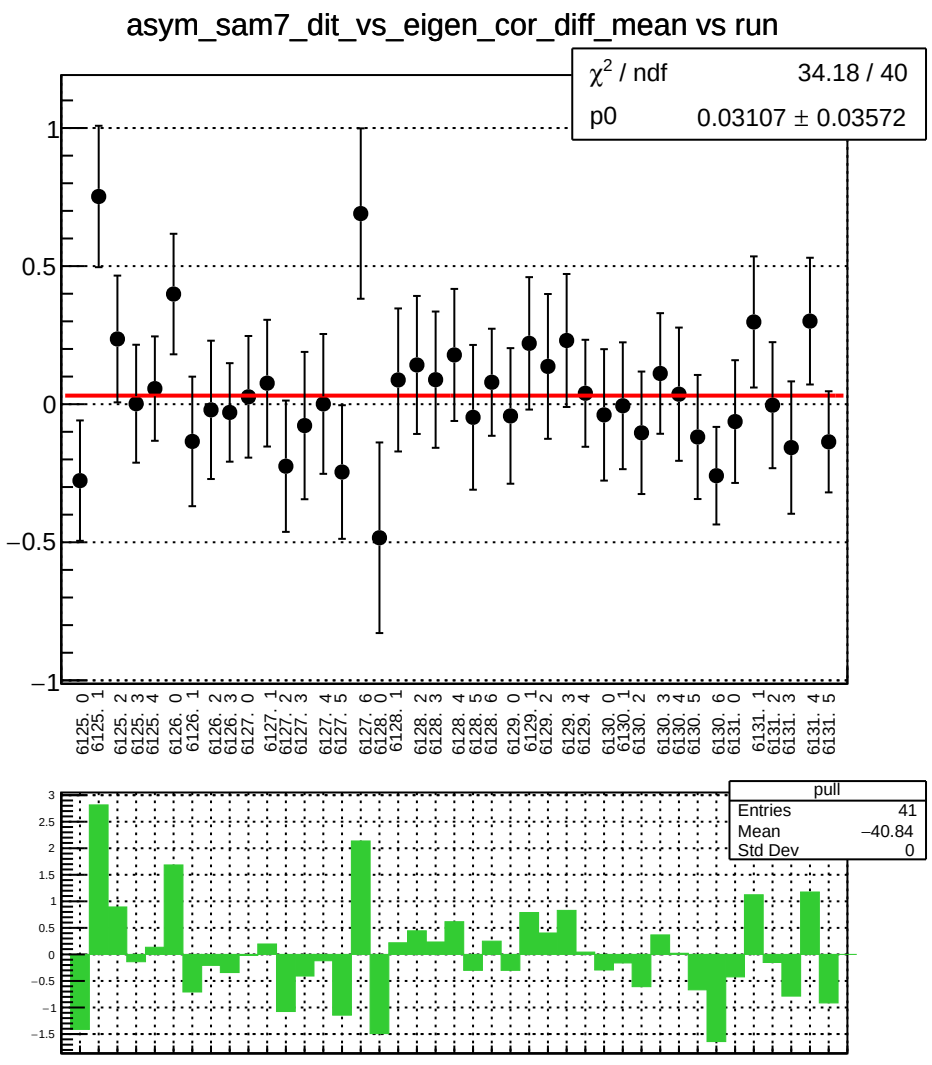

pull1D
Entries 41
Mean −0.08393
Std Dev 0.9694
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

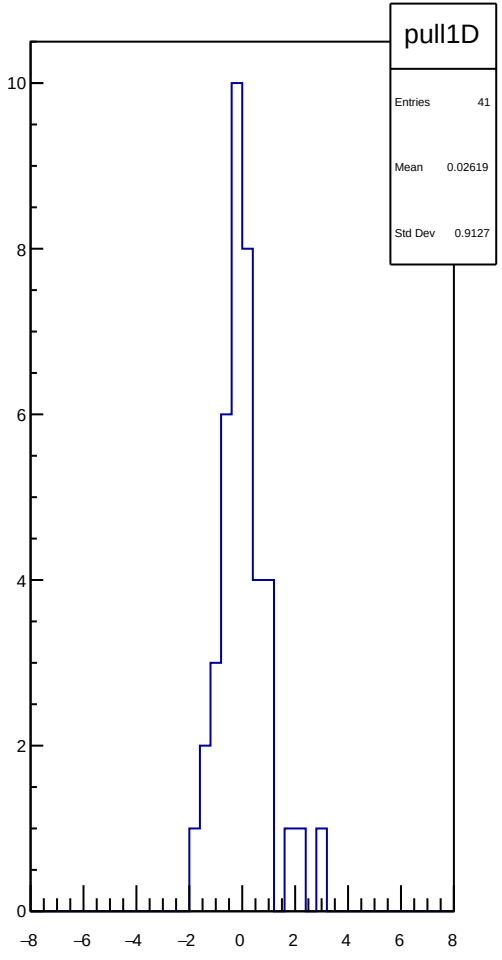

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 2.549e+05 / 40
p0 3.266e−11 ± 4.406e−14
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

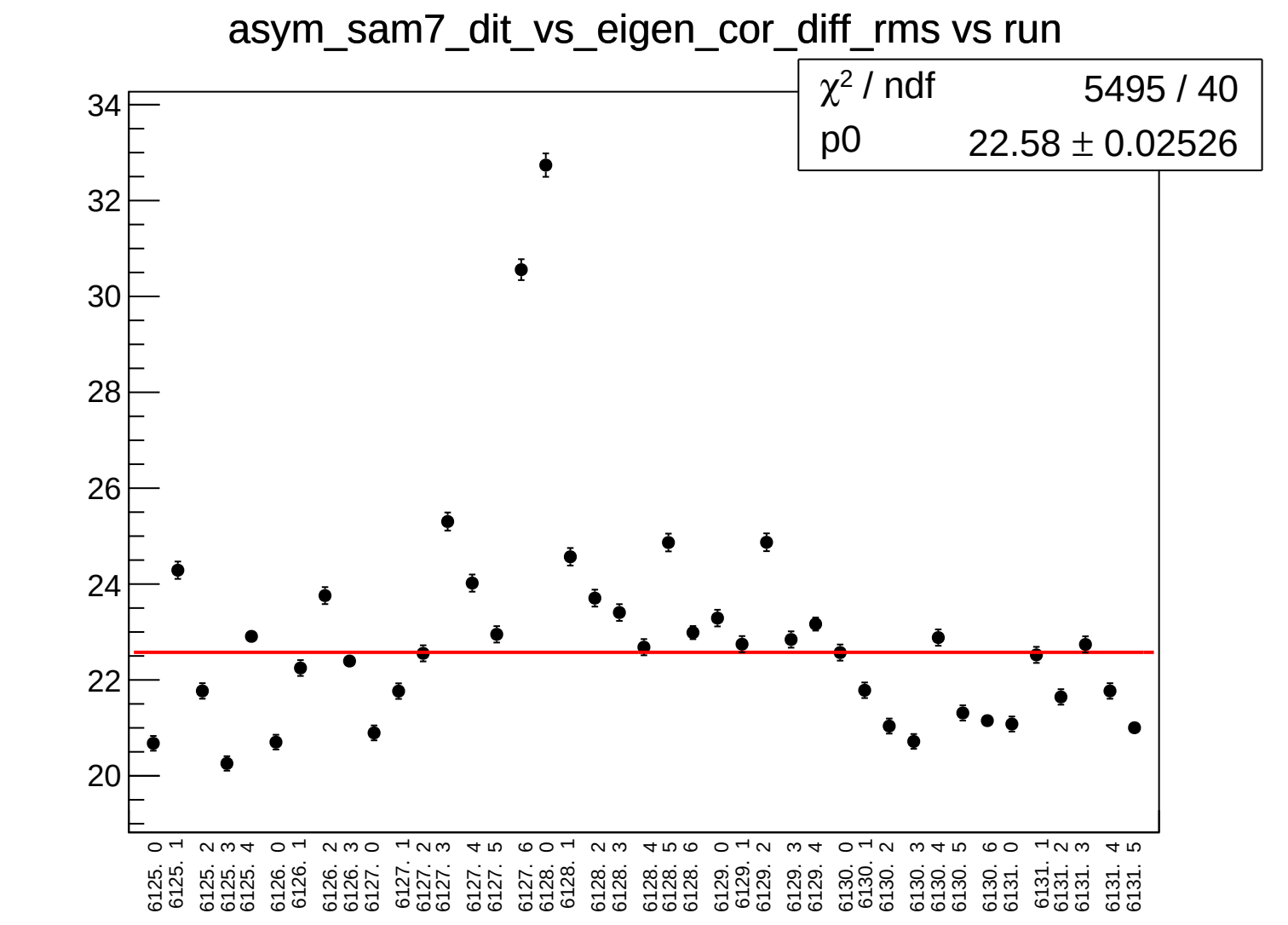

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 34.18 / 40
p0 0.03107 ± 0.03572
pull
Entries 41
Mean −40.84
Std Dev 0

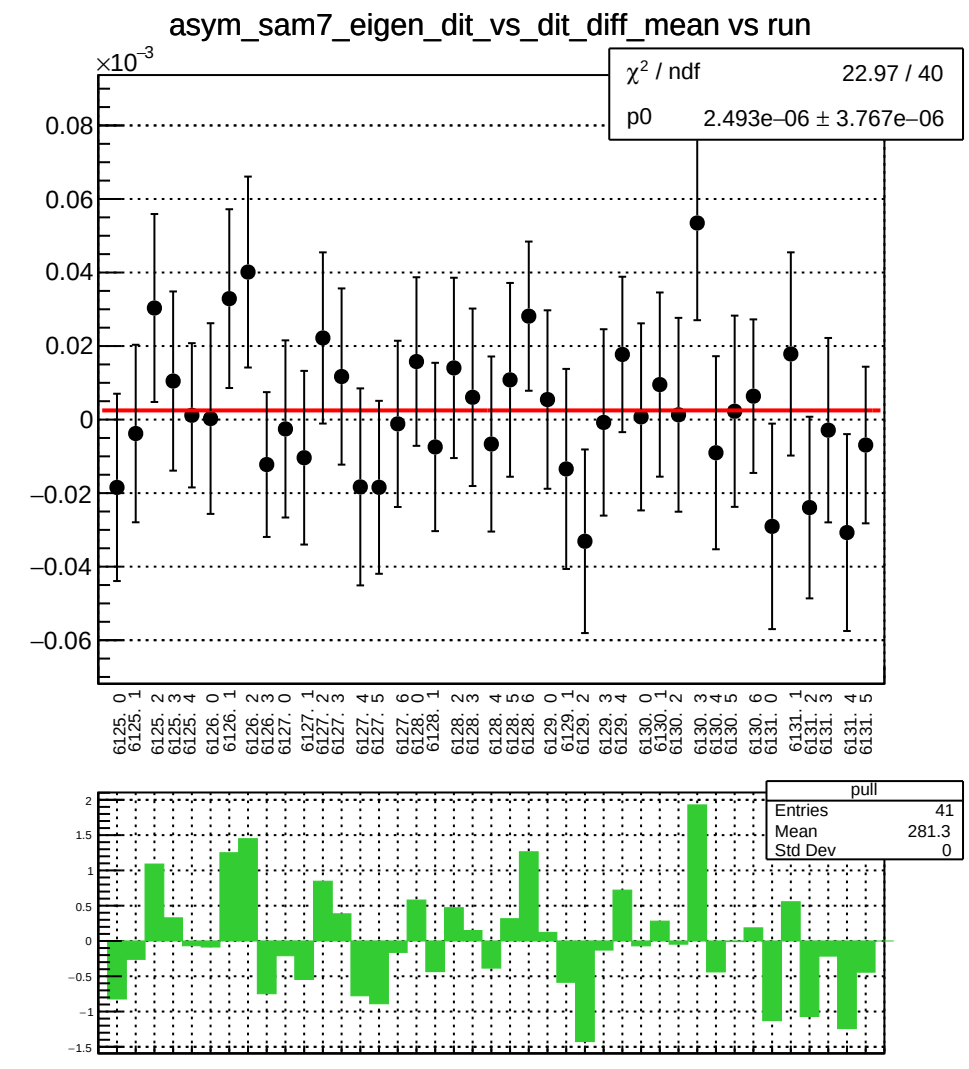

pull1D
Entries 41
Mean 0.02619
Std Dev 0.9127

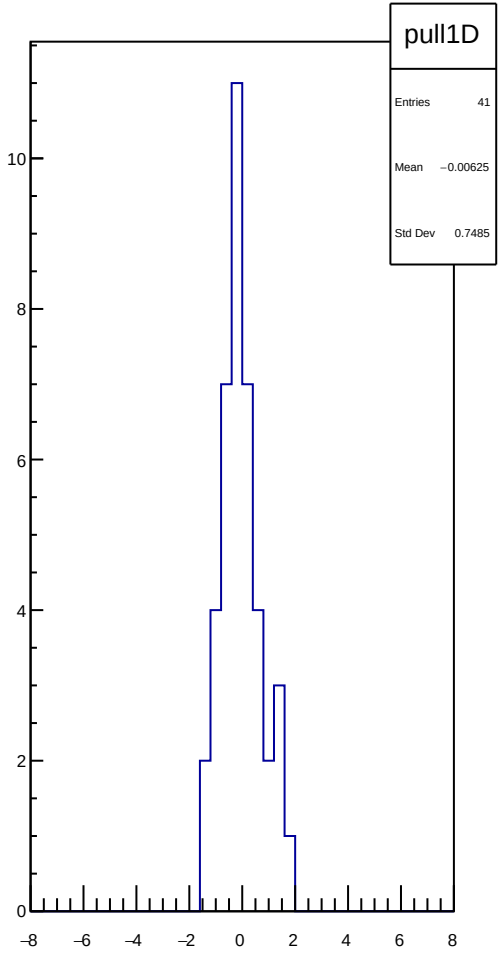

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 5495 / 40
p0 22.58 ± 0.02526
34
32
30
28
26
24
22
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

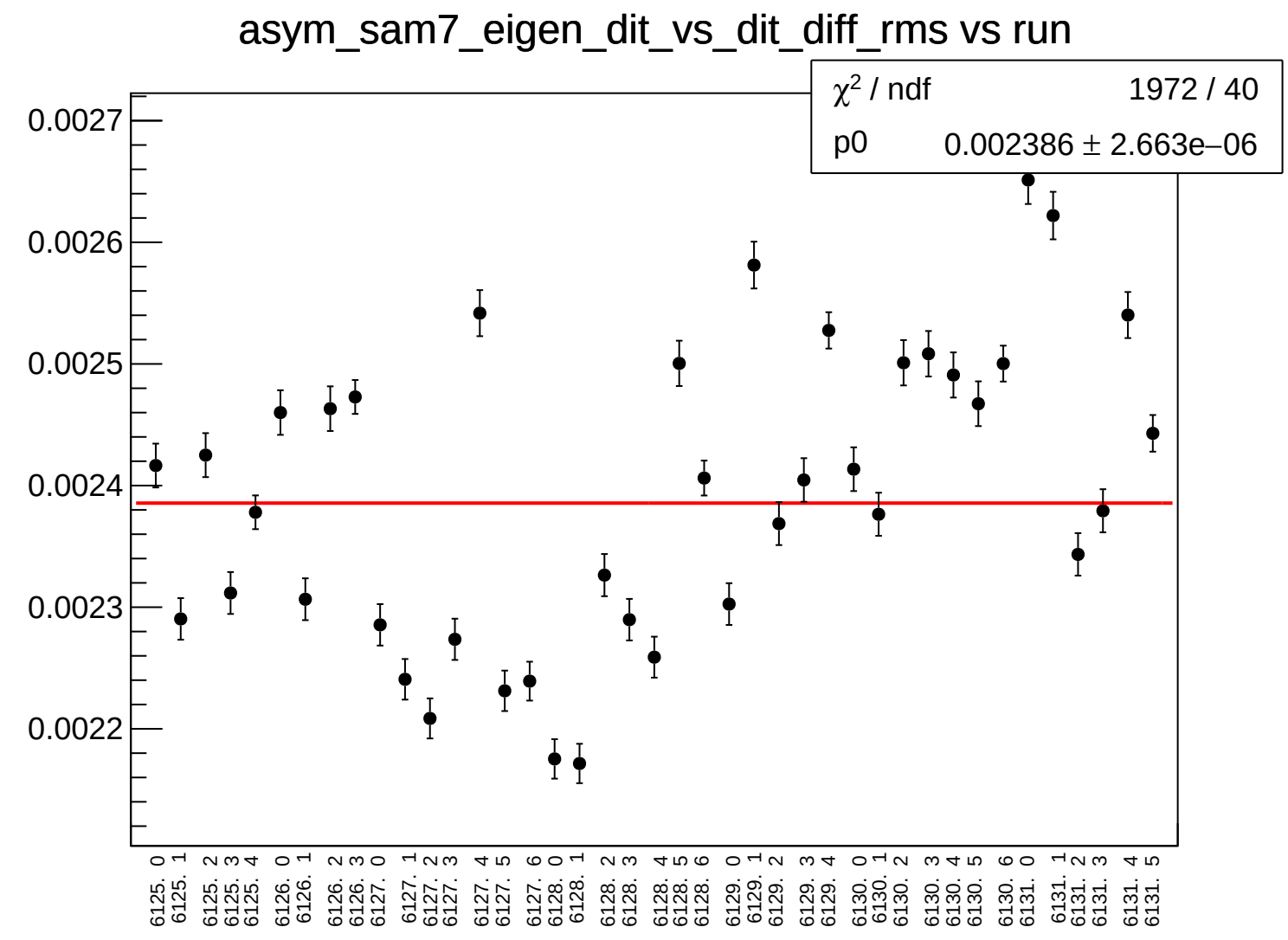

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.18 / 40
p0 0.03107 ± 0.03572
pull
Entries 41
Mean −40.84
Std Dev 0

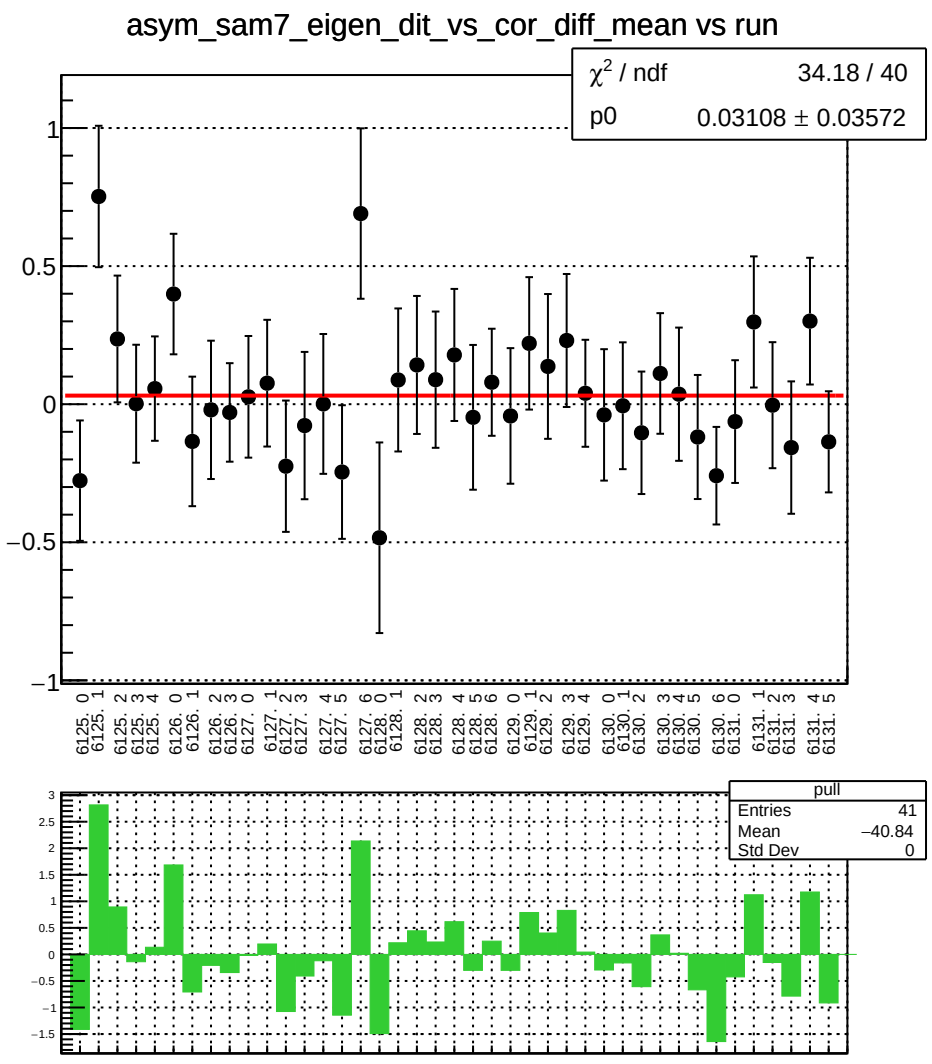

pull1D
Entries 41
Mean 0.02619
Std Dev 0.9127

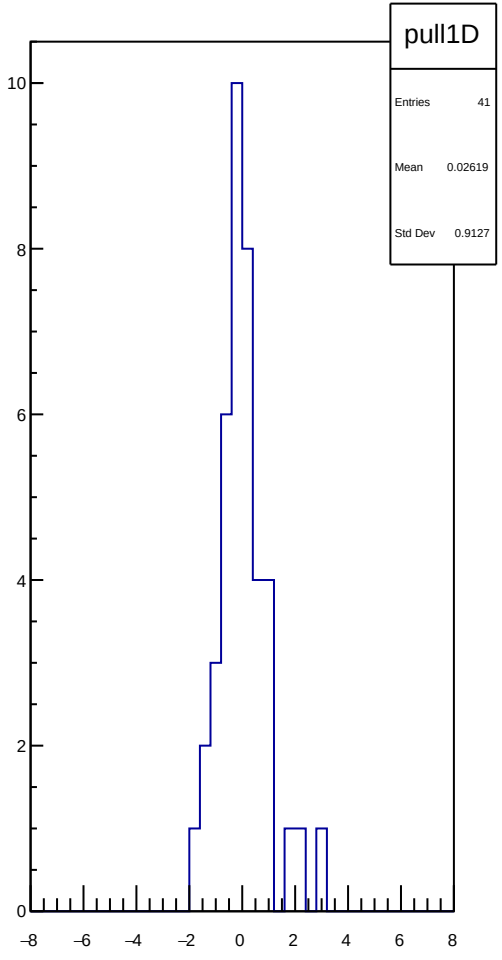

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5495 / 40
p0 22.58 ± 0.02526
34
32
30
28
26
24
22
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

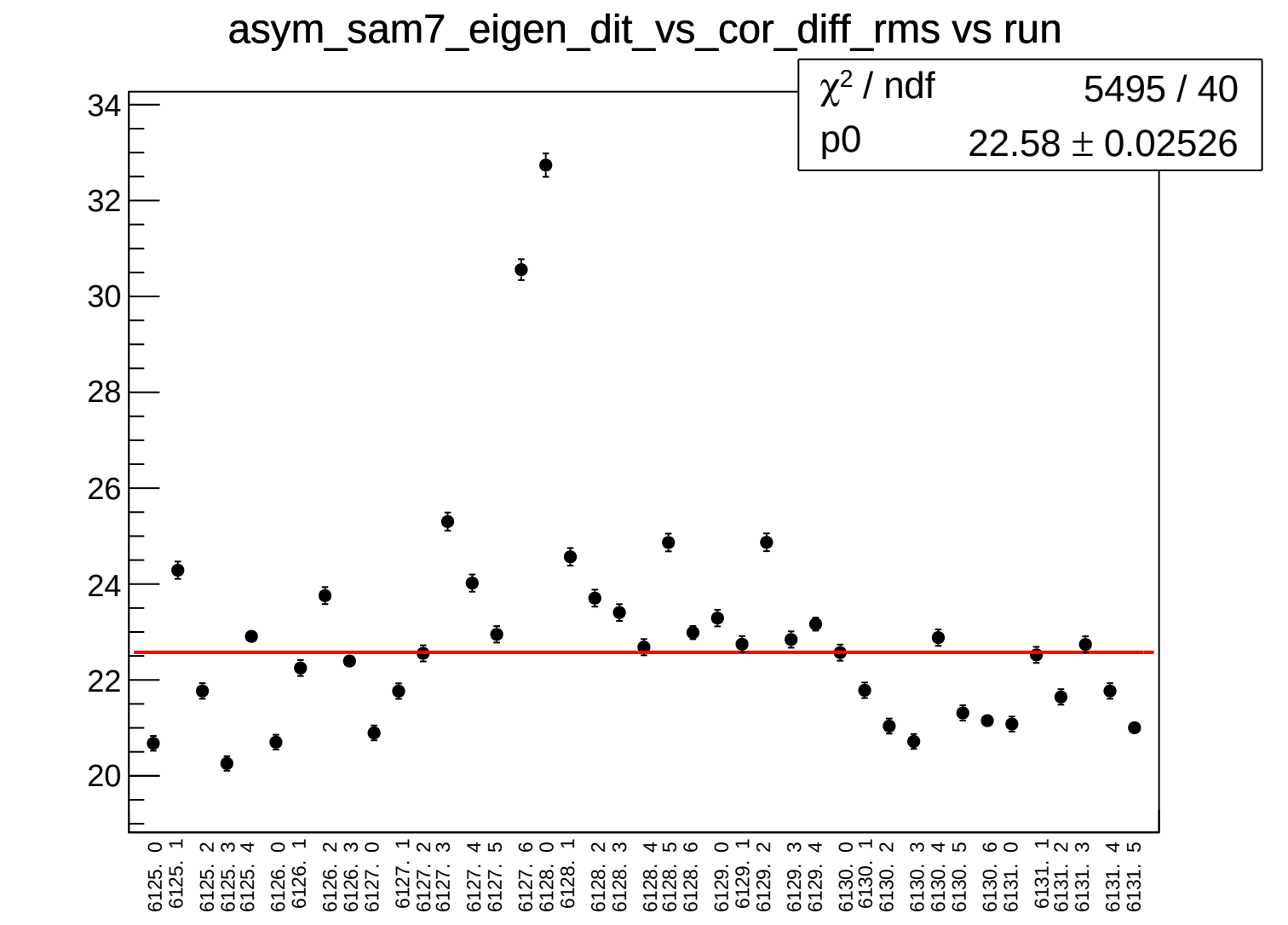

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 22.97 / 40
p0 2.493e−06 ± 3.767e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 281.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

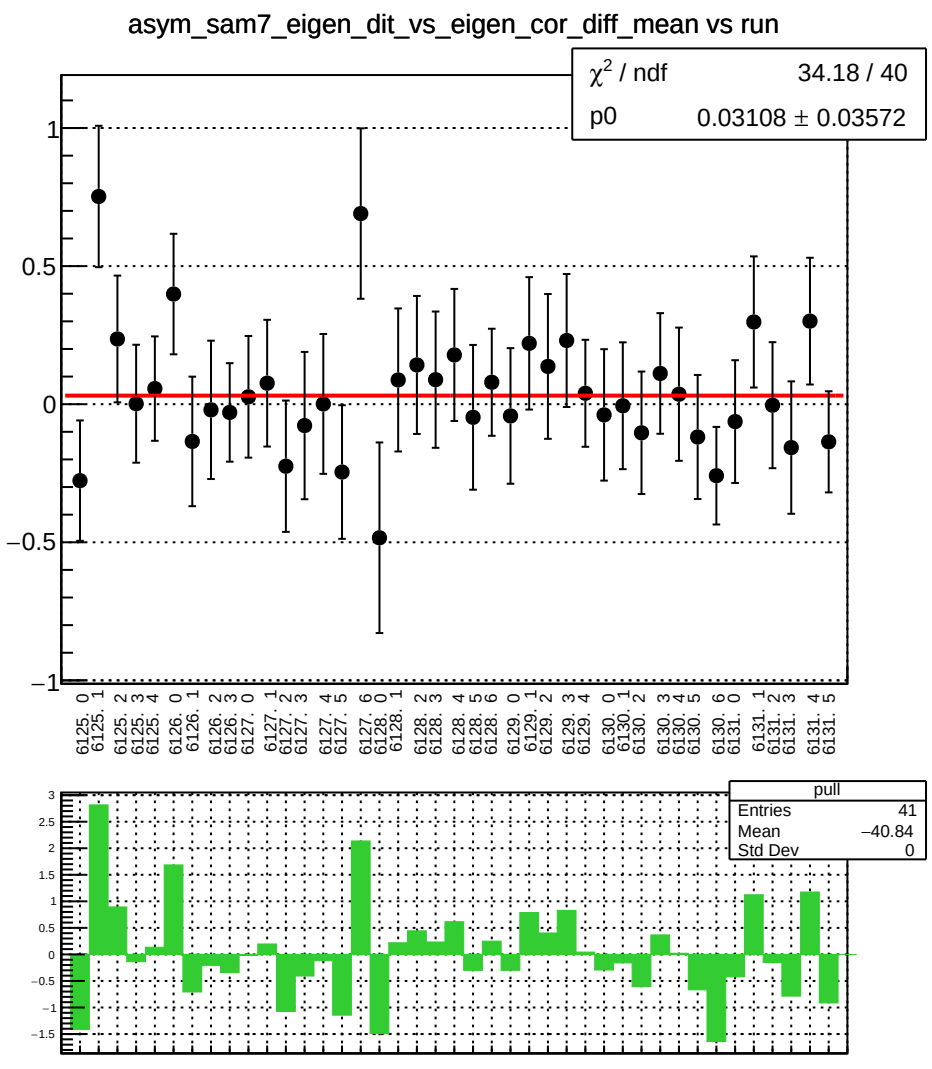

pull1D
Entries 41
Mean −0.00625
Std Dev 0.7485
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

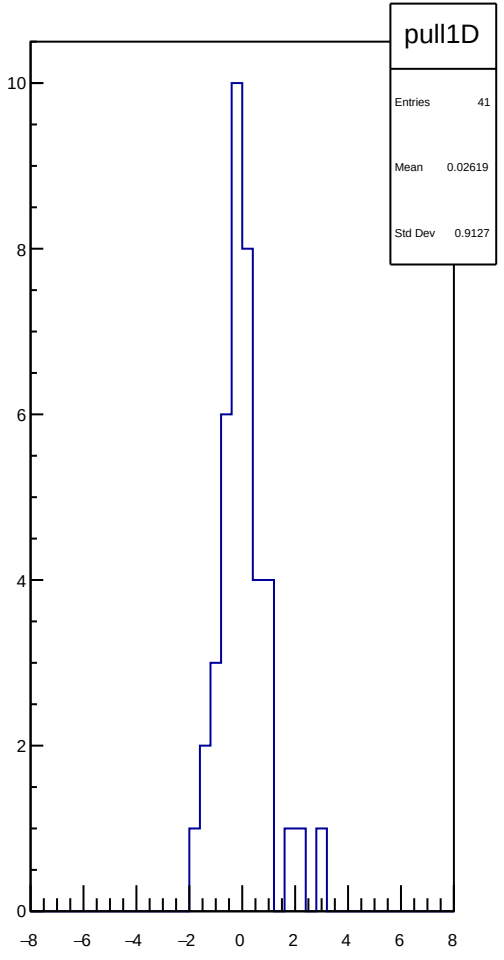

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1972 / 40
p0 0.002386 ± 2.663e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

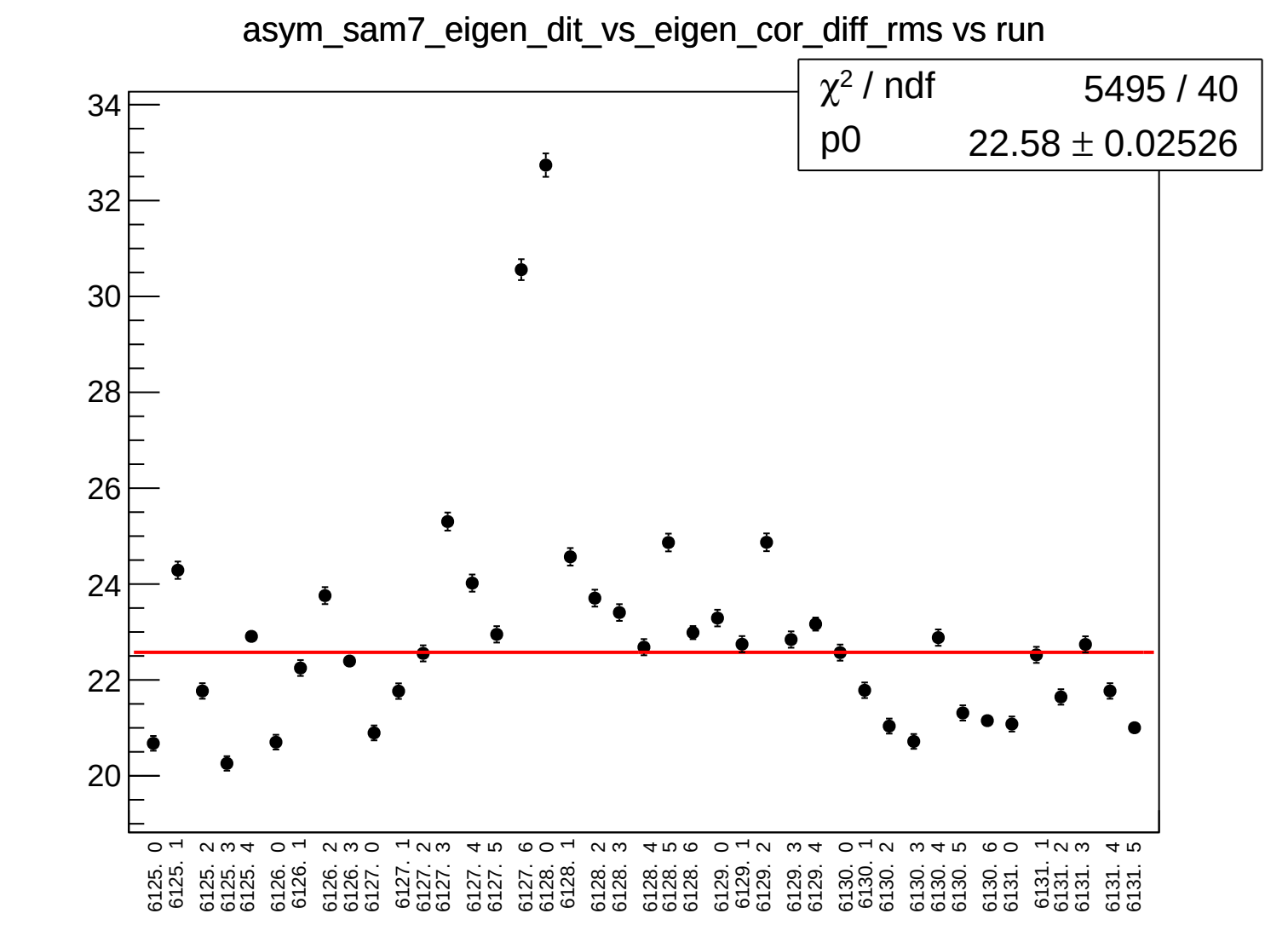

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 34.18 / 40
p0 0.03108 ± 0.03572
pull
Entries 41
Mean −40.84
Std Dev 0

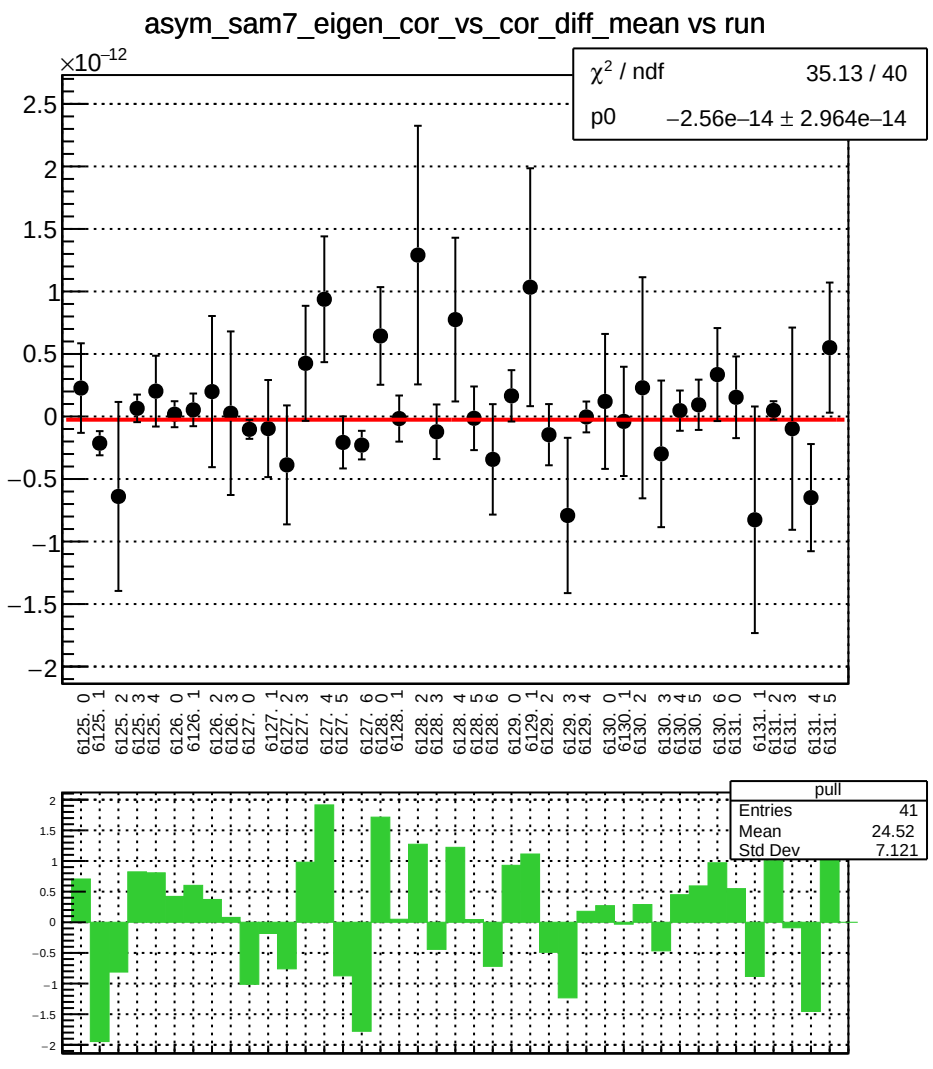

pull1D
Entries 41
Mean 0.02619
Std Dev 0.9127

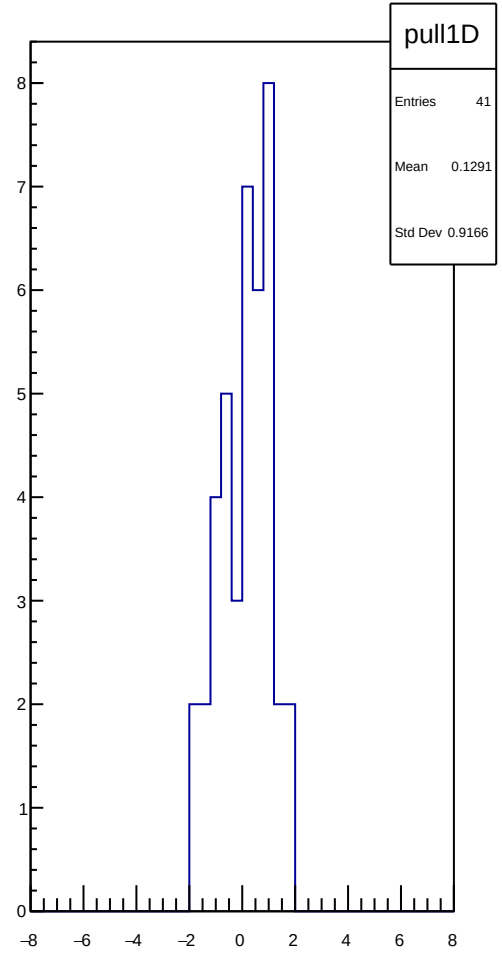

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5495 / 40
p0 22.58 ± 0.02526
34
32
30
28
26
24
22
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

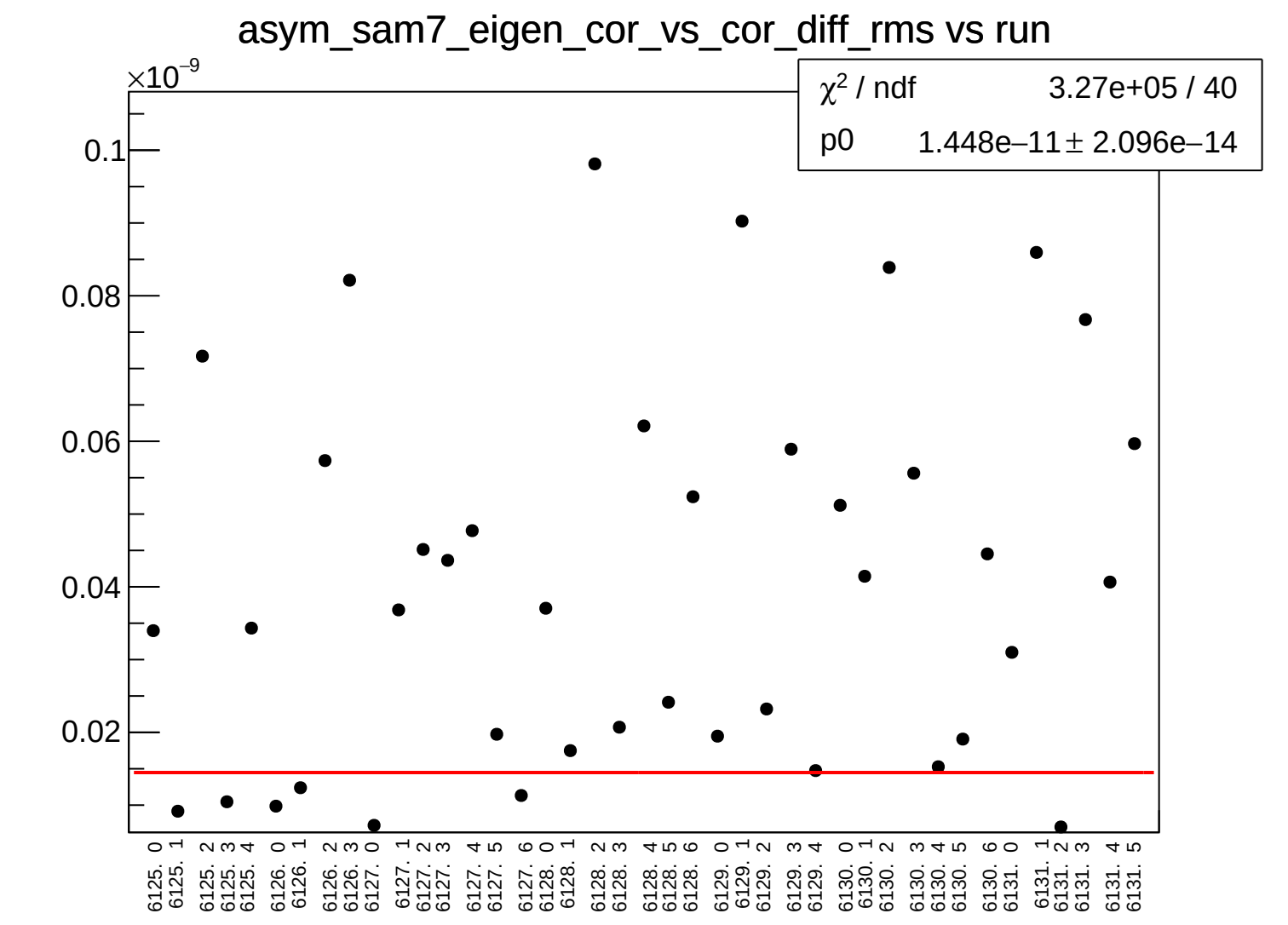

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.18 / 40
p0 0.03108 ± 0.03572
pull
Entries 41
Mean −40.84
Std Dev 0

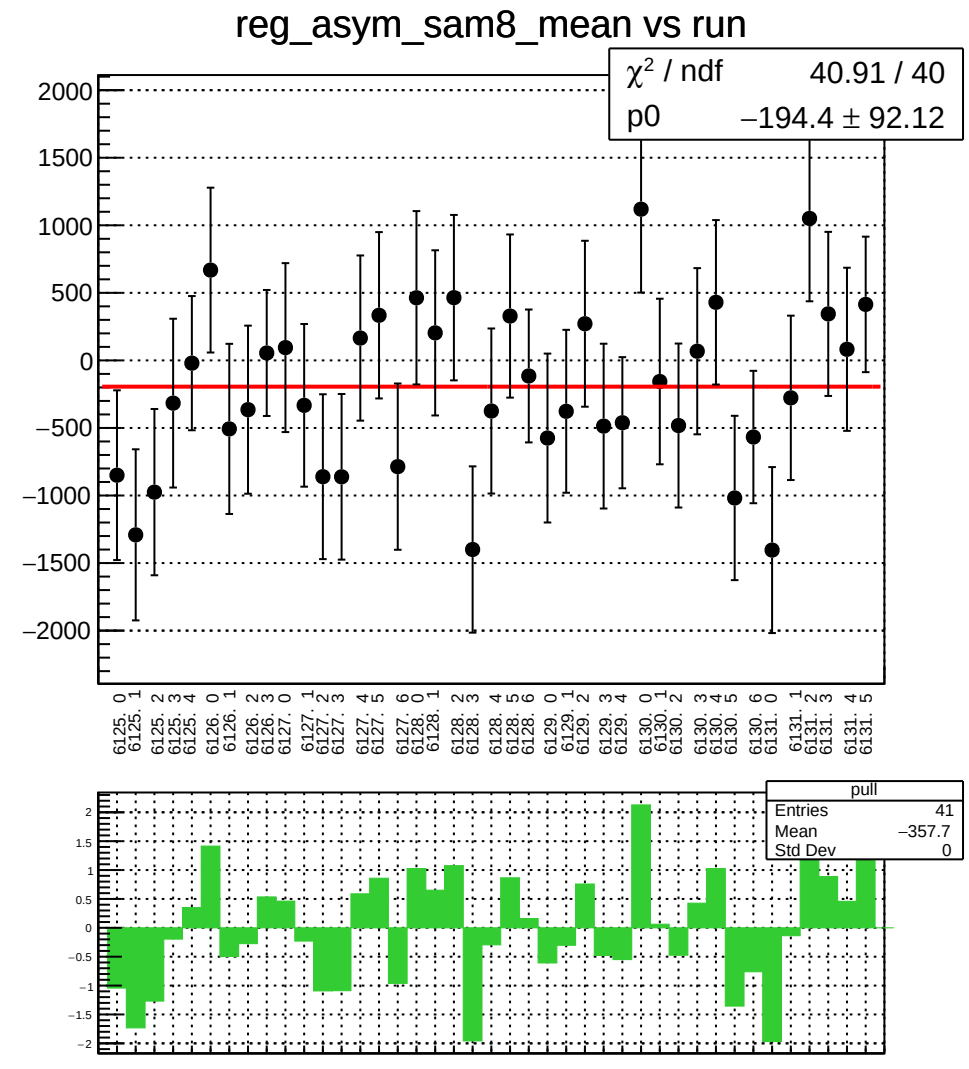

pull1D
Entries 41
Mean 0.02619
Std Dev 0.9127

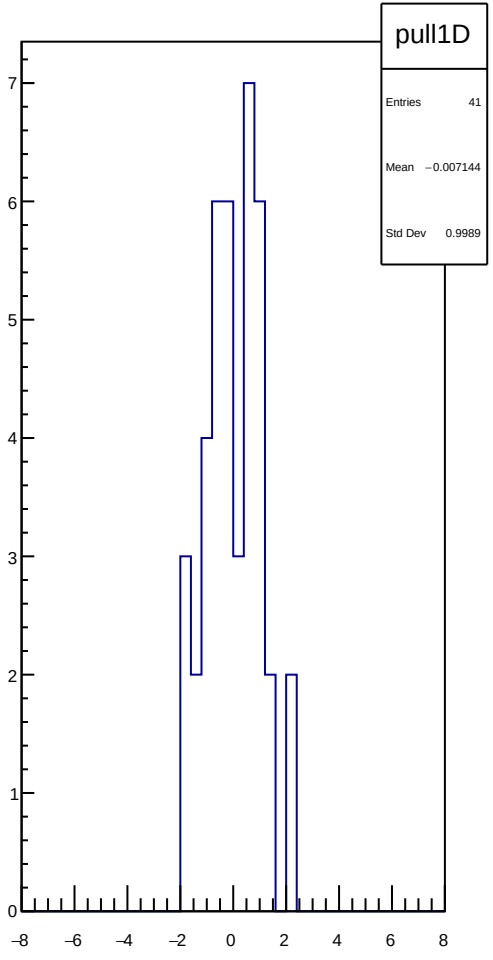

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5495 / 40
p0 22.58 ± 0.02526
34
32
30
28
26
24
22
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

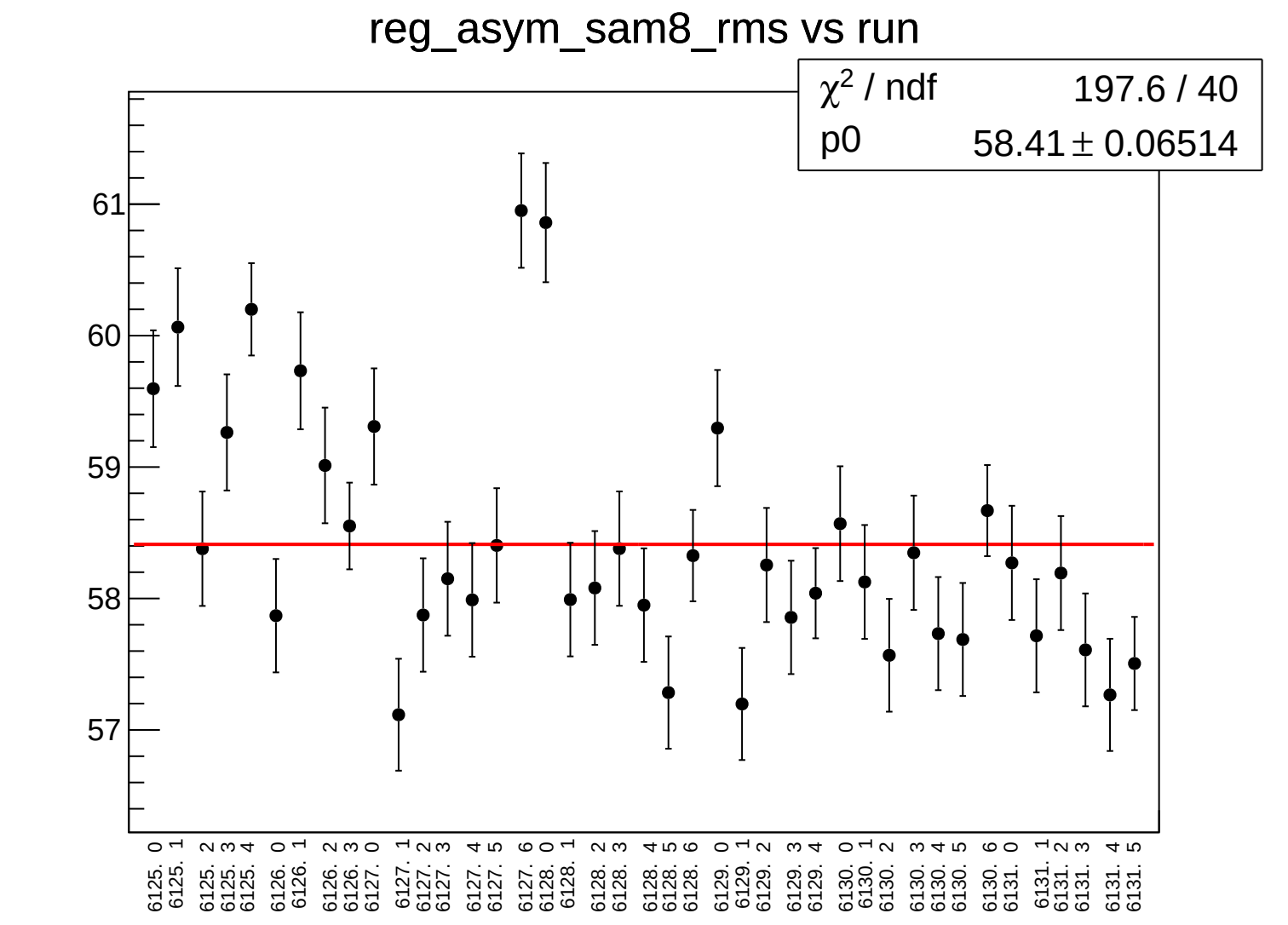

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.13 / 40
p0 −2.56e−14 ± 2.964e−14
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 24.52
Std Dev 7.121
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

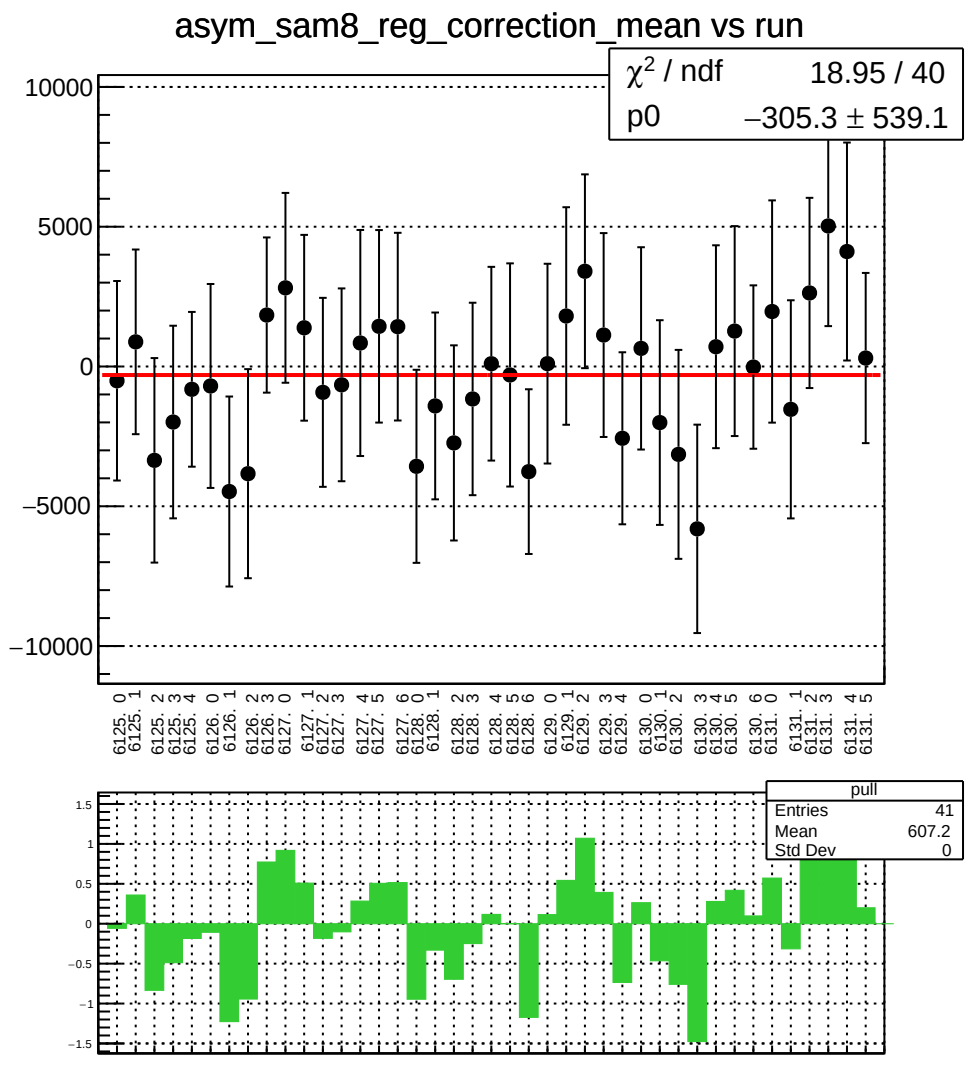

pull1D
Entries 41
Mean 0.1291
Std Dev 0.9166
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

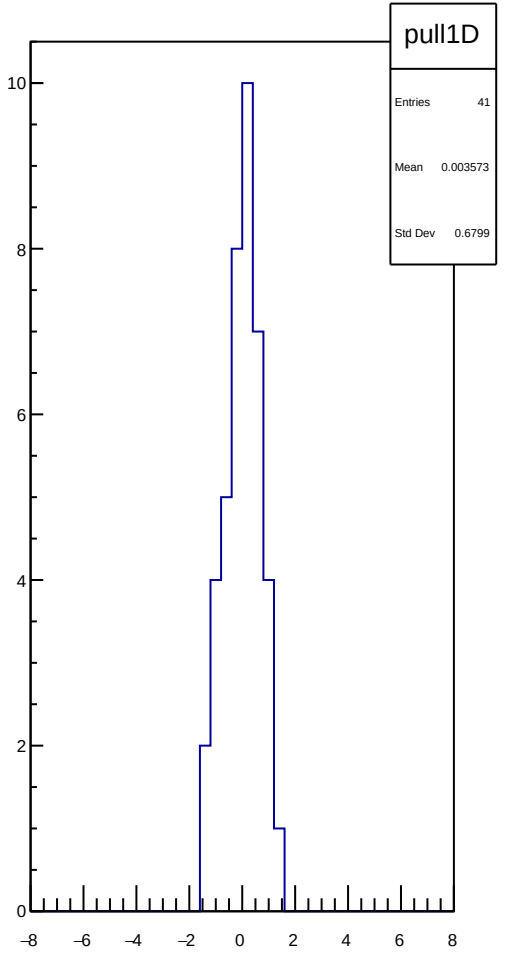

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.27e+05 / 40
p0 1.448e−11 ± 2.096e−14
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

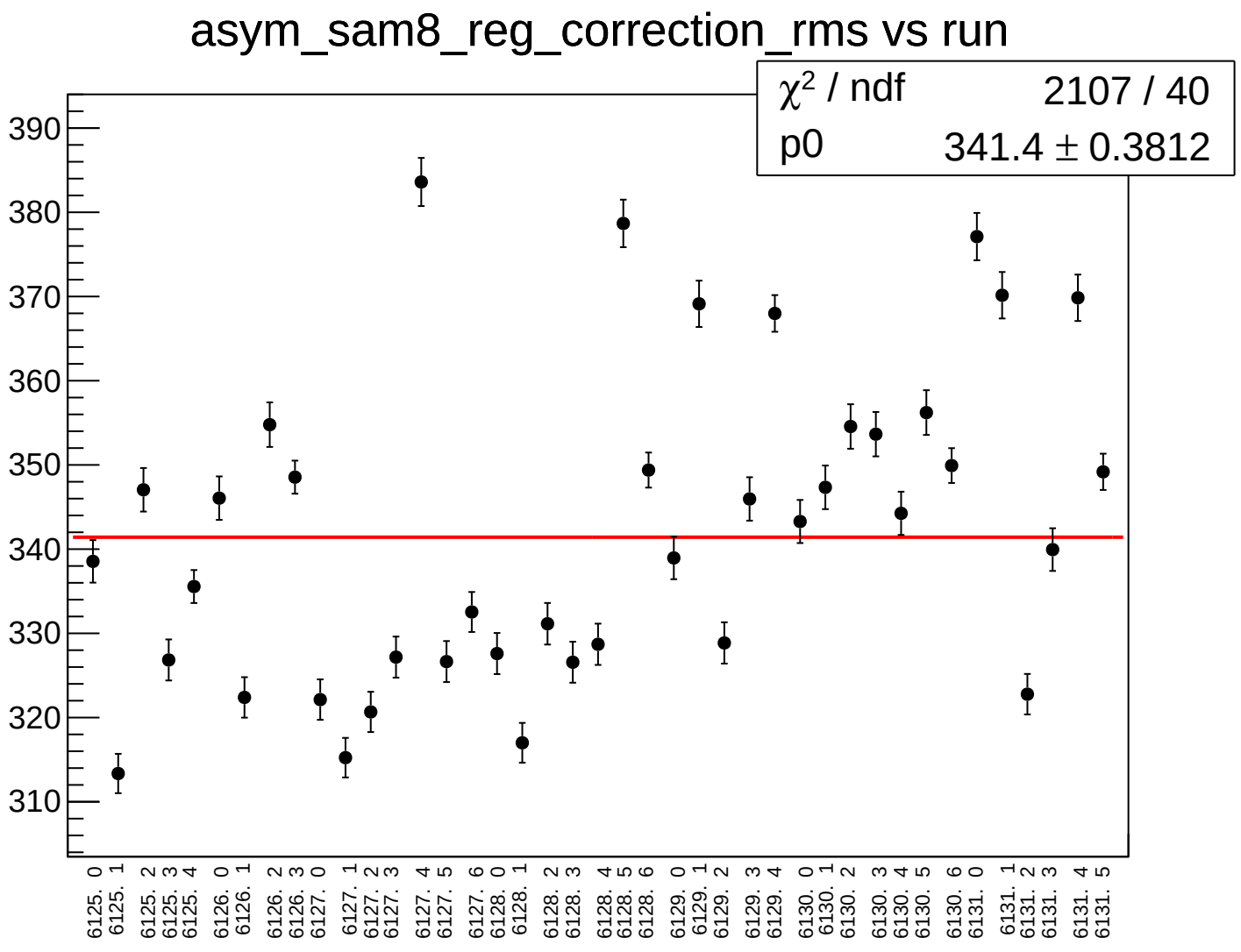

reg_asym_sam8_mean vs run
χ² / ndf 40.91 / 40
p0 −194.4 ± 92.12
pull
Entries 41
Mean −357.7
Std Dev 0


pull1D
Entries 41
Mean −0.007144
Std Dev 0.9989


reg_asym_sam8_rms vs run
χ² / ndf 197.6 / 40
p0 58.41 ± 0.06514
61
60
59
58
57
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam8_reg_correction_mean vs run
χ² / ndf 18.95 / 40
p0 −305.3 ± 539.1
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 607.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.003573
Std Dev 0.6799
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam8_reg_correction_rms vs run
χ² / ndf 2107 / 40
p0 341.4 ± 0.3812
390
380
370
360
350
340
330
320
310
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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6130. 5
6130. 6
6131. 0
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6131. 2
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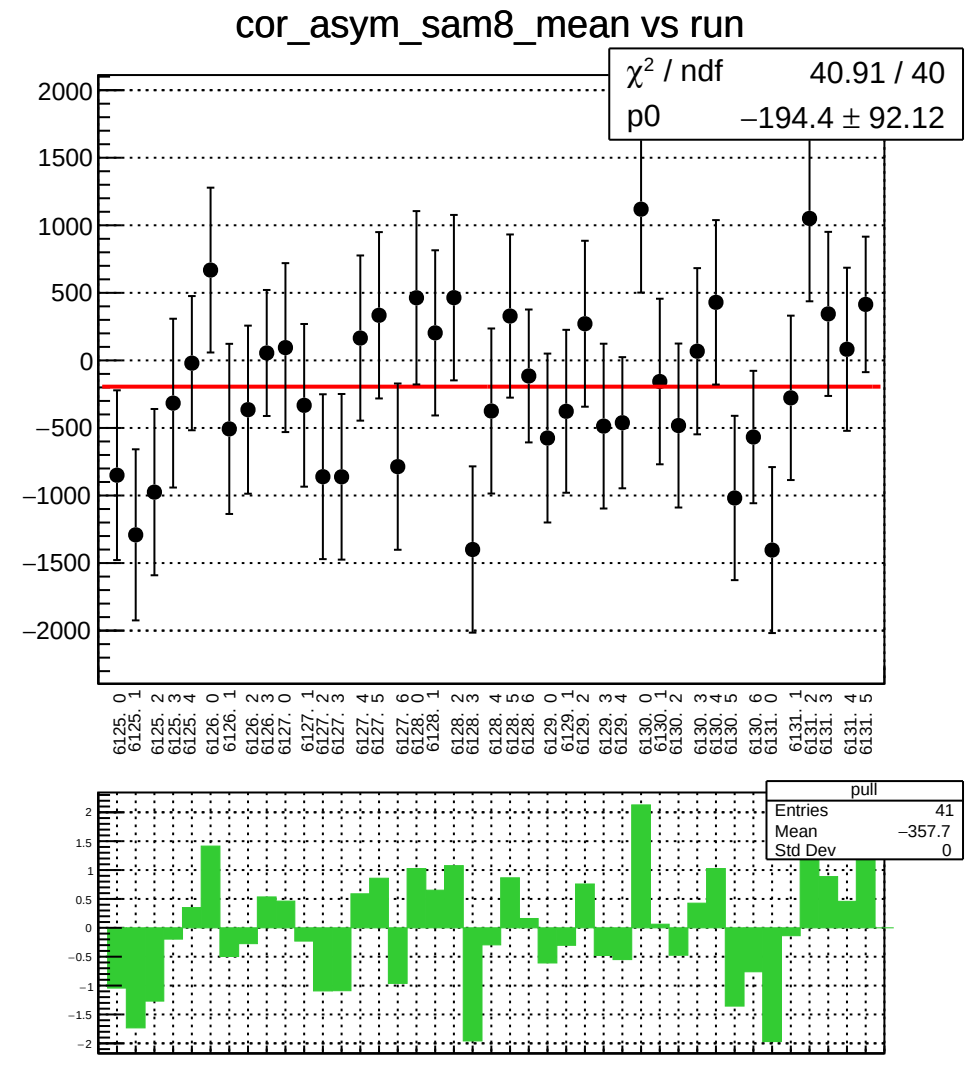
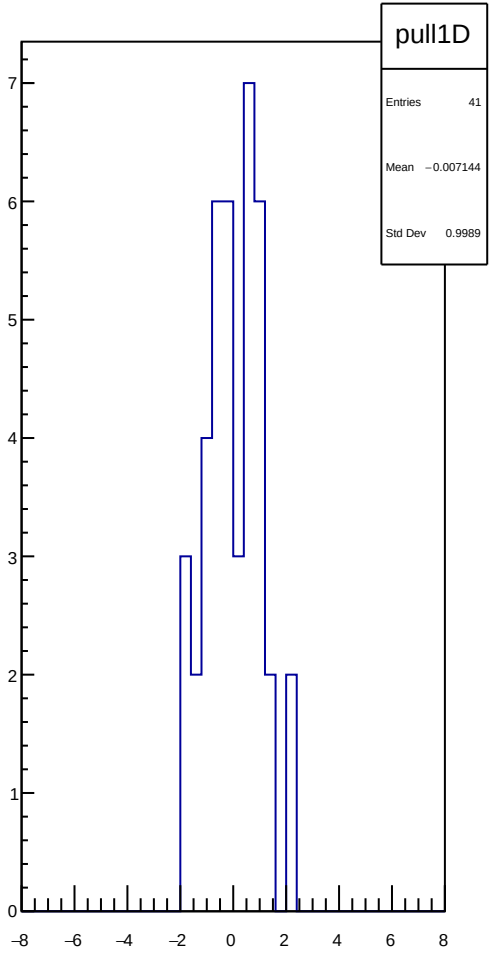
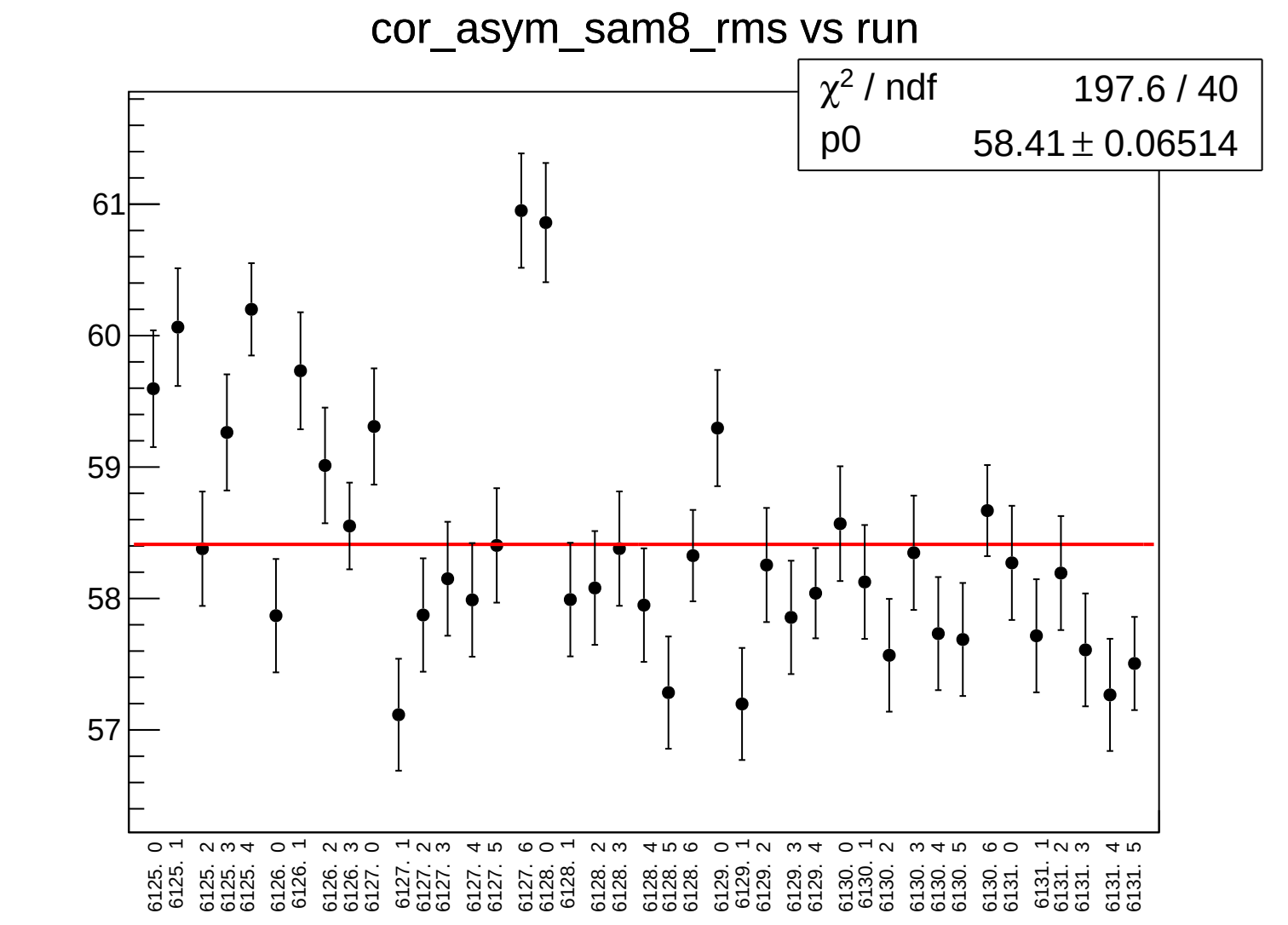
6131. 4
6131. 5


cor_asym_sam8_mean vs run
χ² / ndf 40.91 / 40
p0 −194.4 ± 92.12
pull
Entries 41
Mean −357.7
Std Dev 0


pull1D
Entries 41
Mean −0.007144
Std Dev 0.9989


cor_asym_sam8_rms vs run
χ² / ndf 197.6 / 40
p0 58.41 ± 0.06514
61
60
59
58
57
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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6130. 5
6130. 6
6131. 0
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6131. 2
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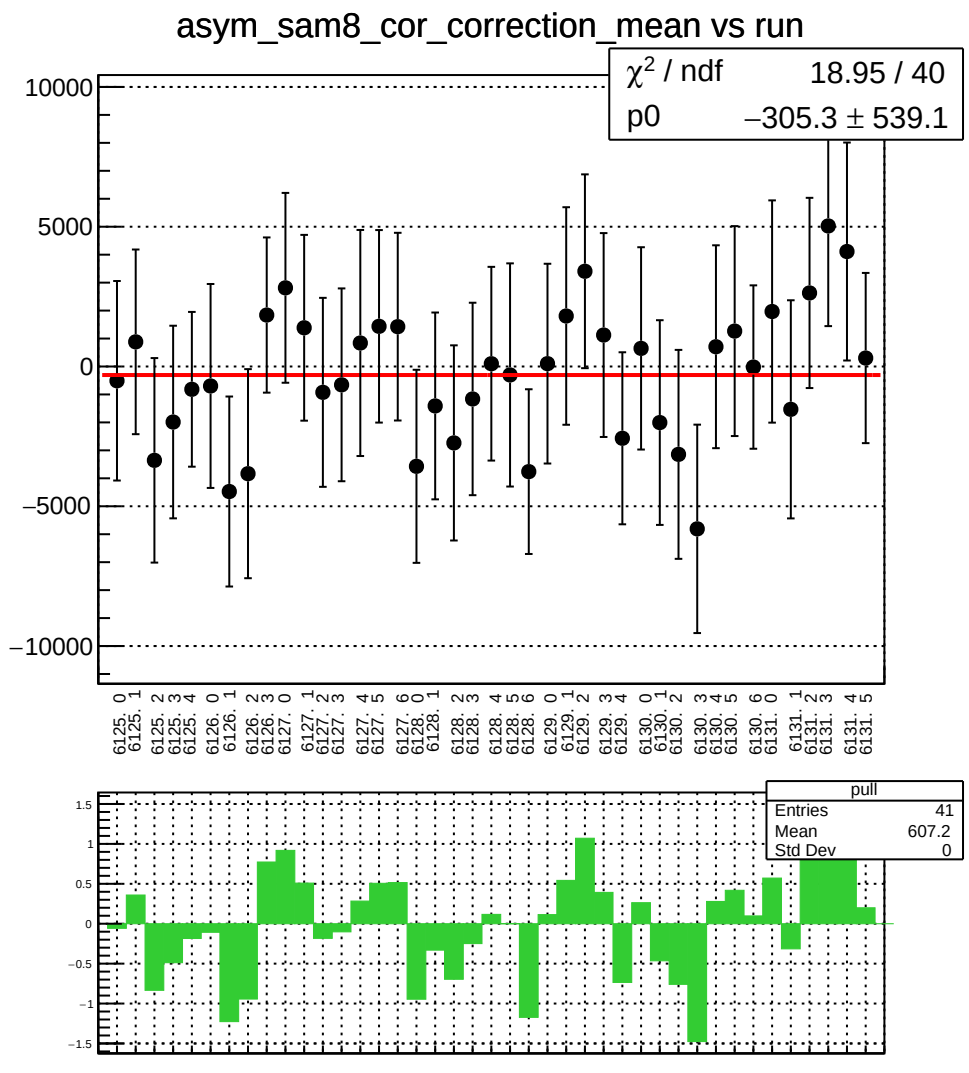
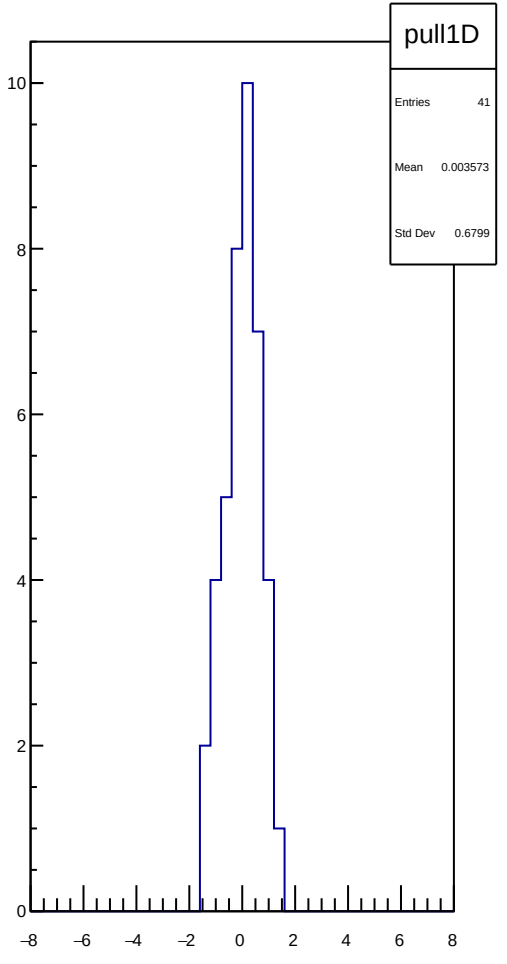
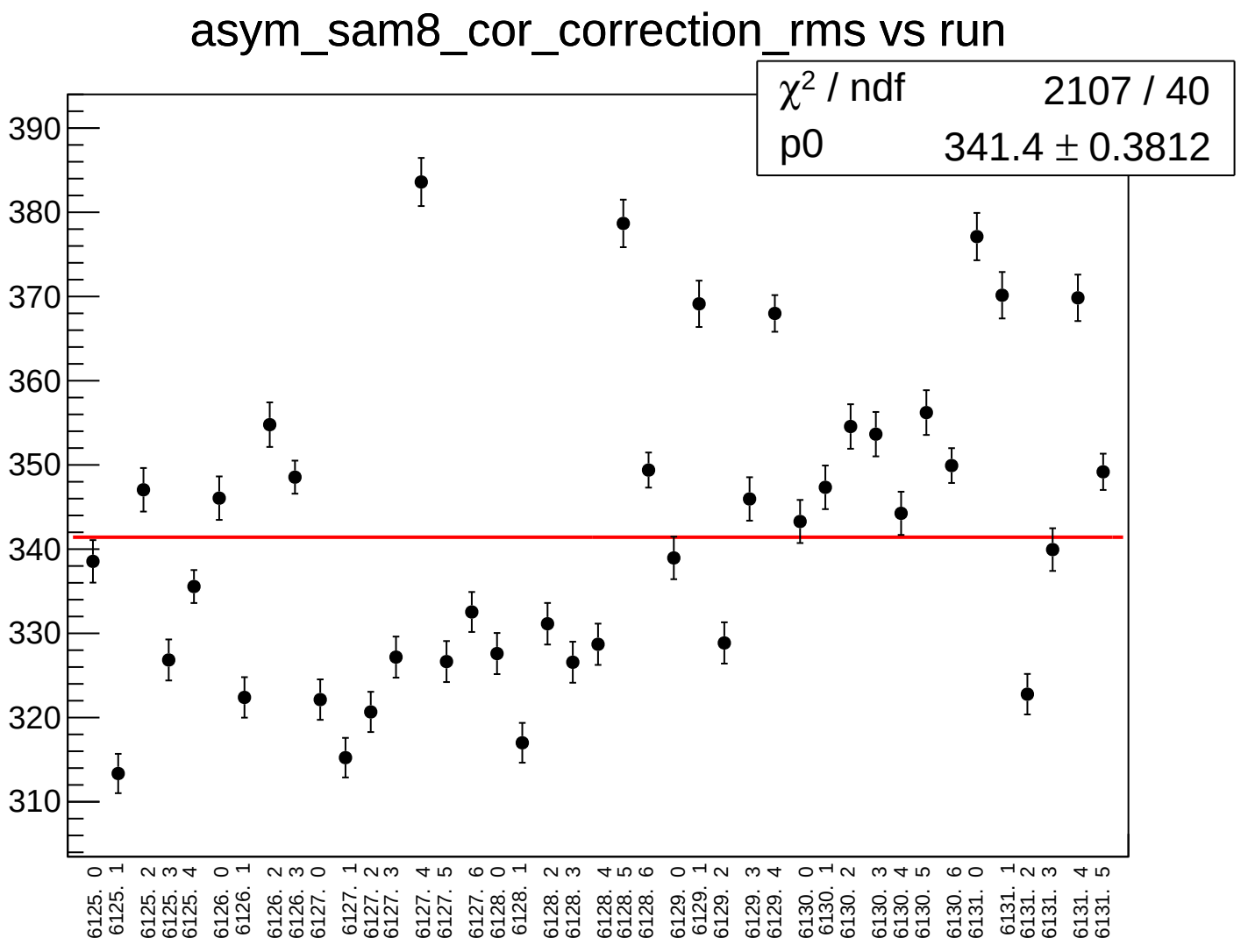
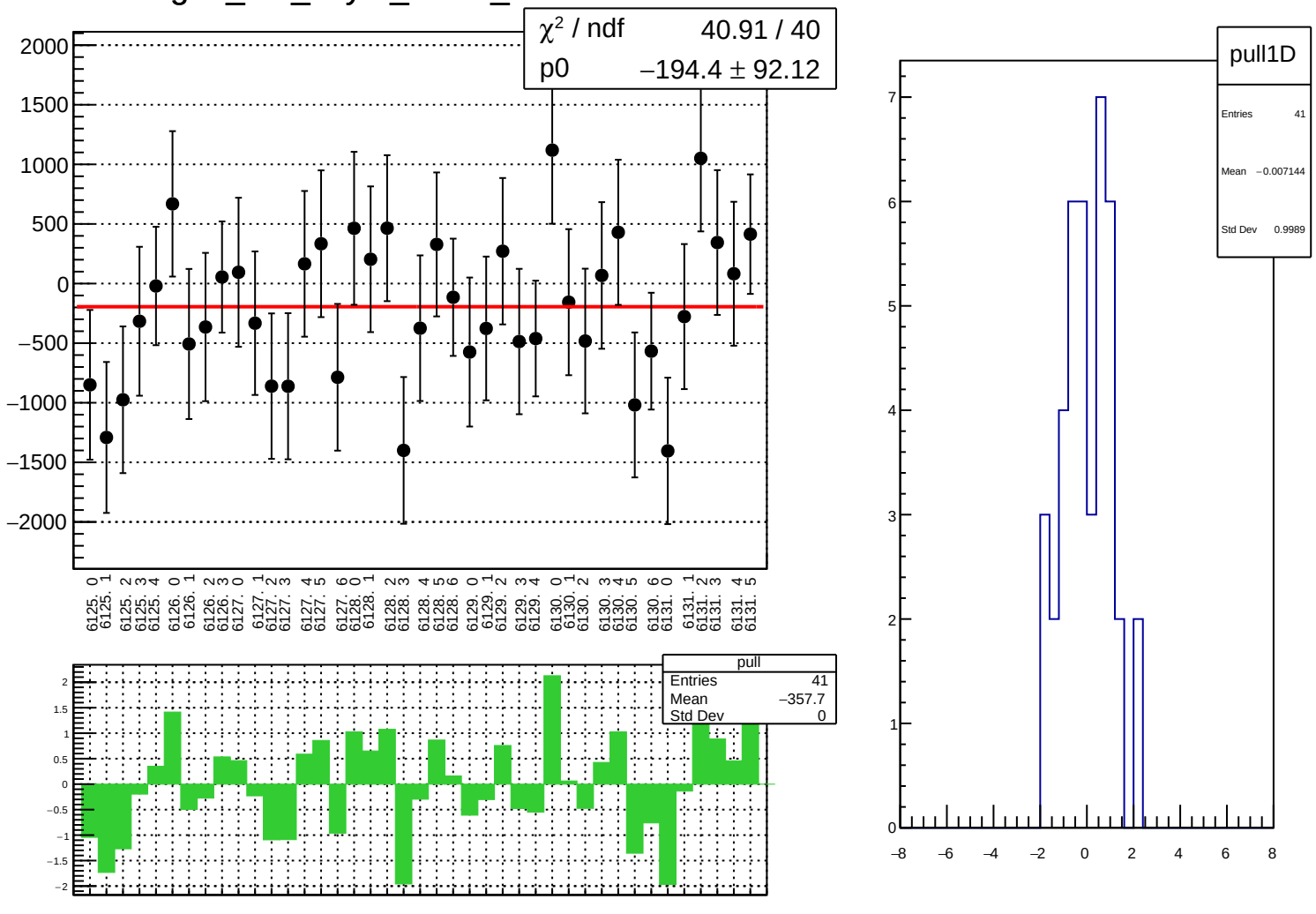
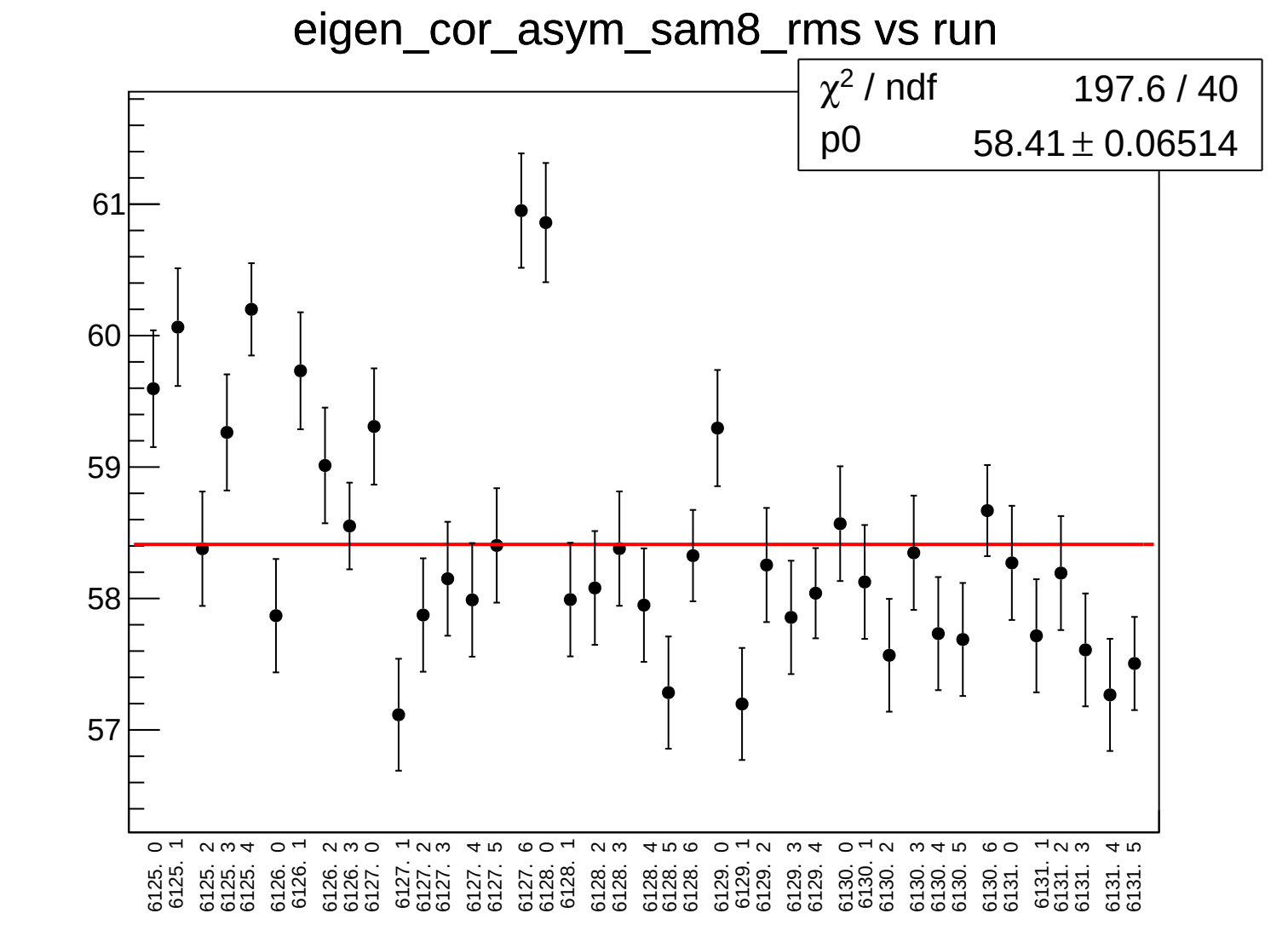
6131. 4
6131. 5


asym_sam8_cor_correction_mean vs run
χ² / ndf 18.95 / 40
p0 −305.3 ± 539.1
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 607.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.003573
Std Dev 0.6799
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam8_cor_correction_rms vs run
χ² / ndf 2107 / 40
p0 341.4 ± 0.3812
390
380
370
360
350
340
330
320
310
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_sam8_mean vs run
χ² / ndf 40.91 / 40
p0 −194.4 ± 92.12
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −357.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.007144
Std Dev 0.9989
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam8_rms vs run
χ² / ndf 197.6 / 40
p0 58.41 ± 0.06514
61
60
59
58
57
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
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6131. 2
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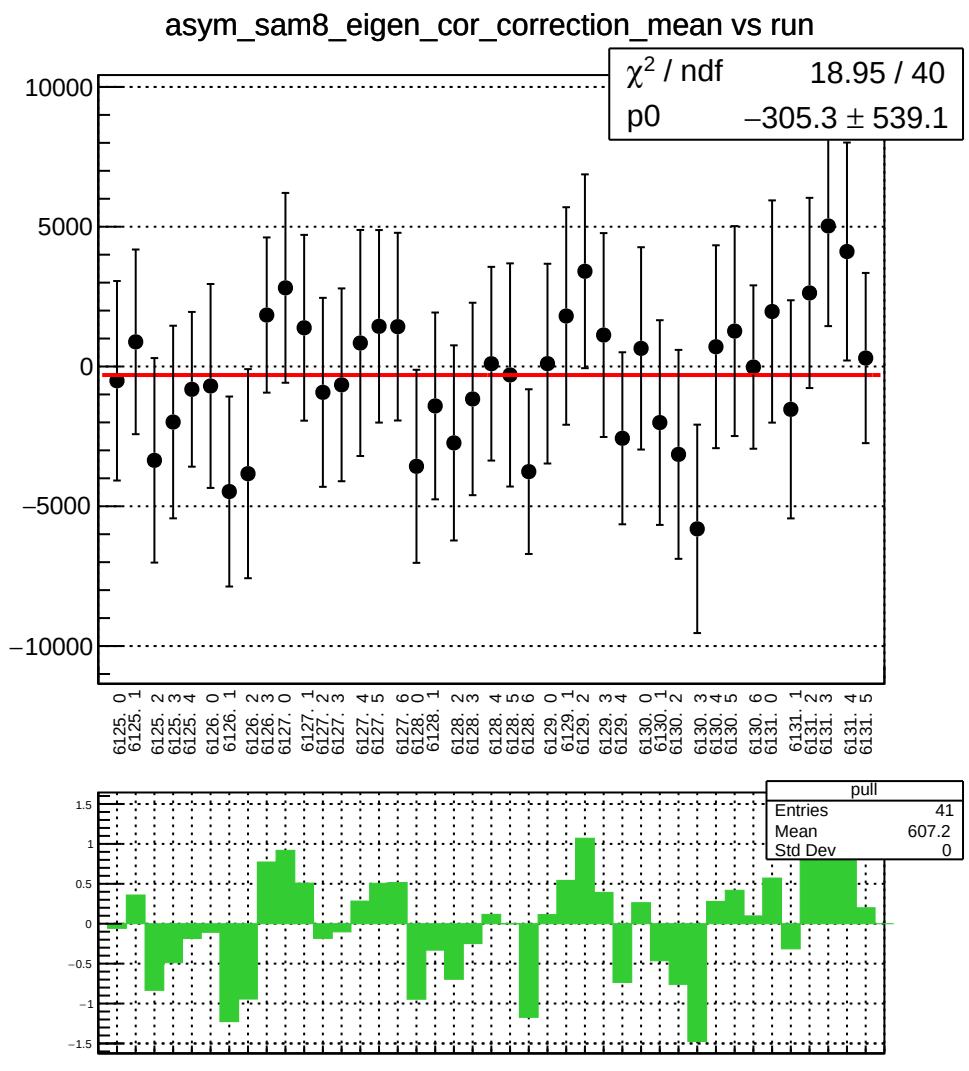
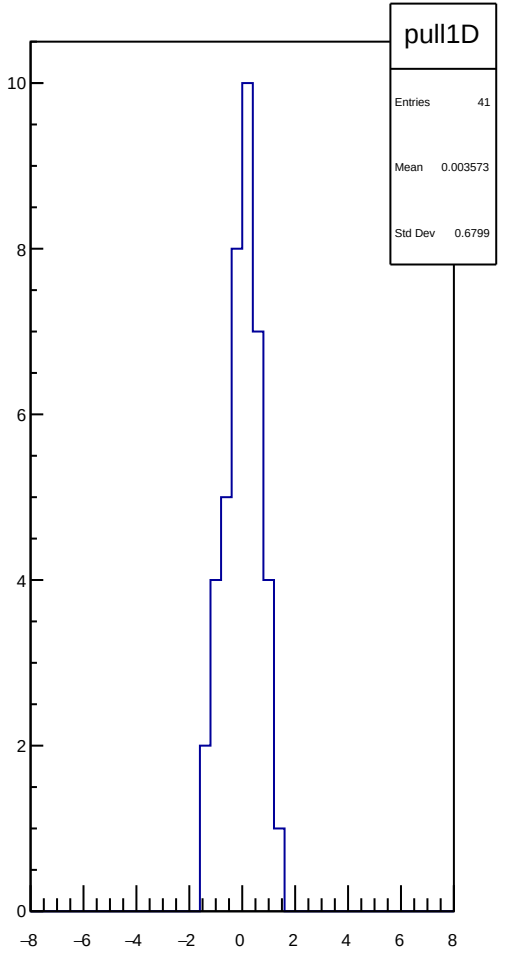
6131. 4
6131. 5


asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 18.95 / 40
p0 −305.3 ± 539.1
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 607.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.003573
Std Dev 0.6799
10
8
6
4
2
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−8
−6
−4
−2
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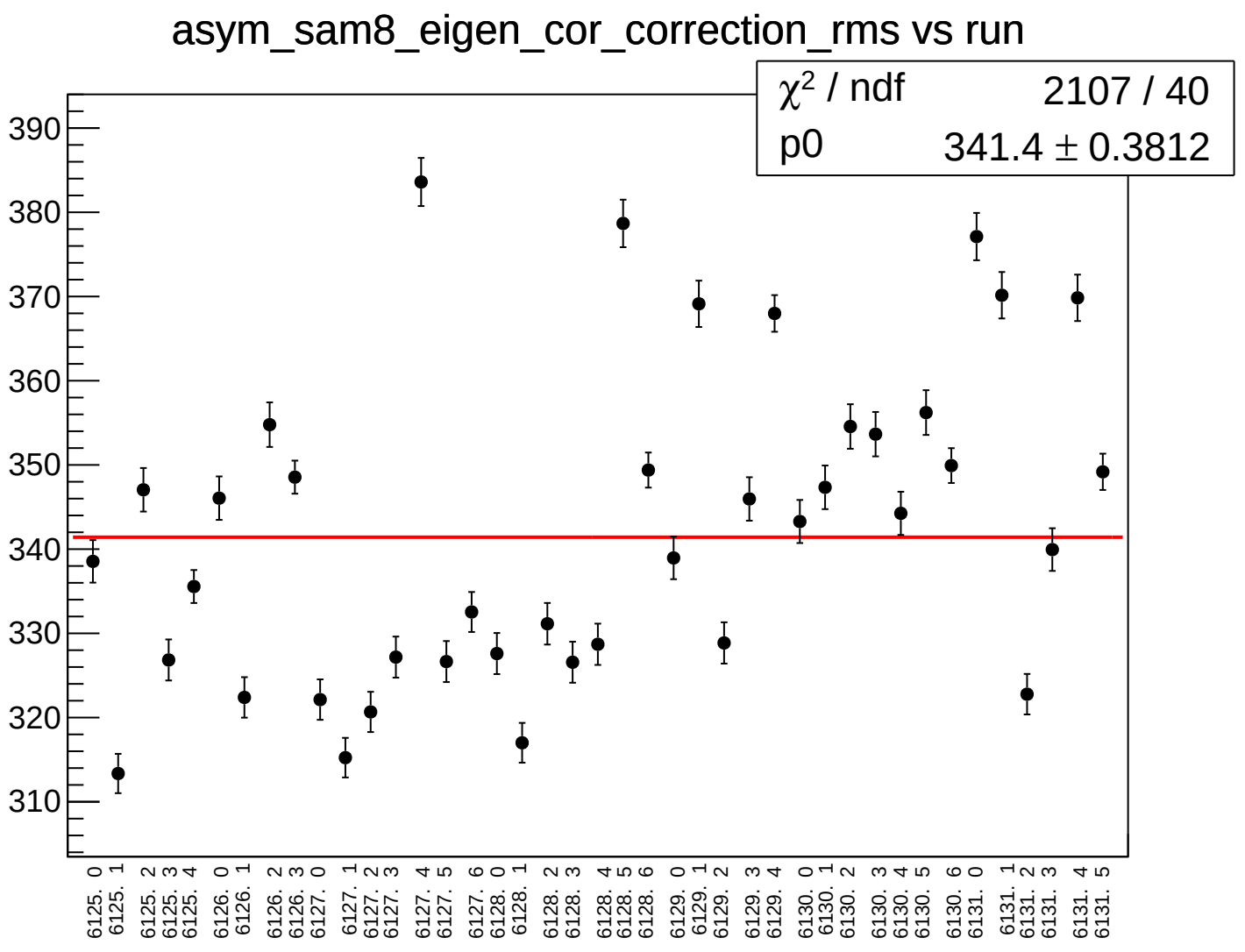
2
4
6
8


asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 2107 / 40
p0 341.4 ± 0.3812
390
380
370
360
350
340
330
320
310
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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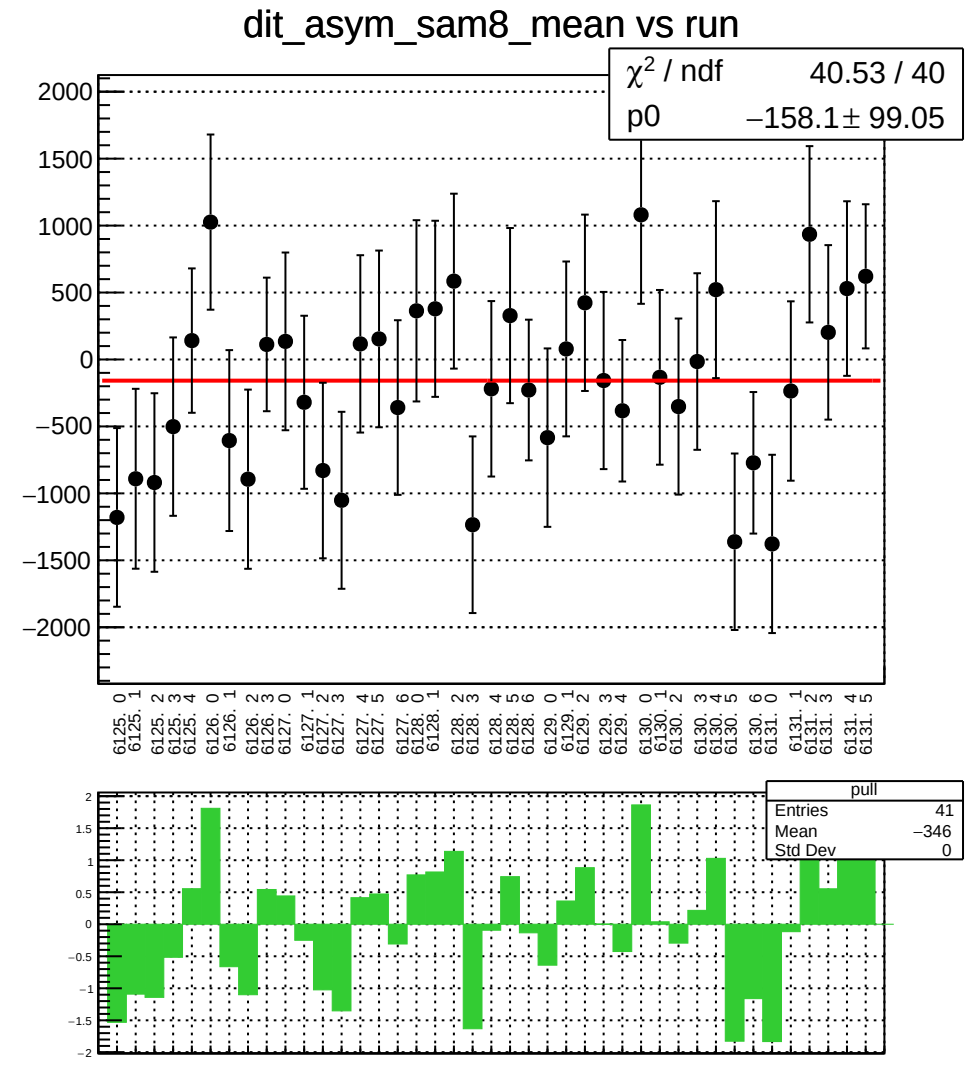
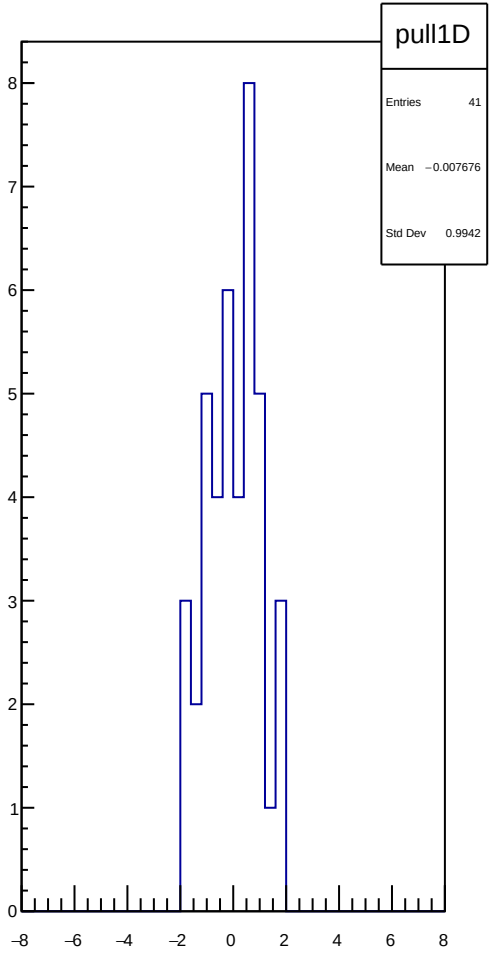
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


dit_asym_sam8_mean vs run
χ² / ndf 40.53 / 40
p0 −158.1± 99.05
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −346
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.007676
Std Dev 0.9942
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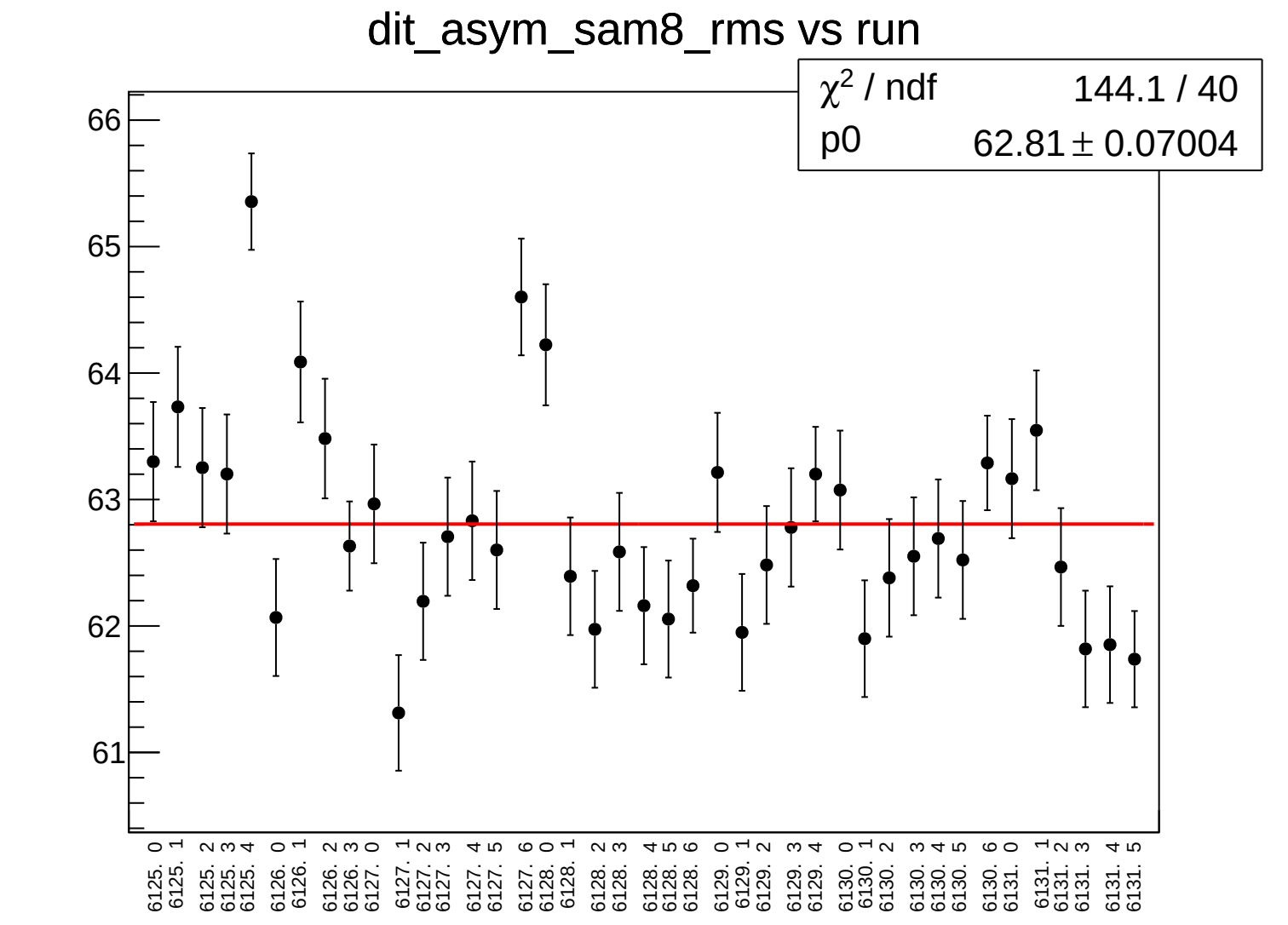
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam8_rms vs run
χ² / ndf 144.1 / 40
p0 62.81 ± 0.07004
66
65
64
63
62
61
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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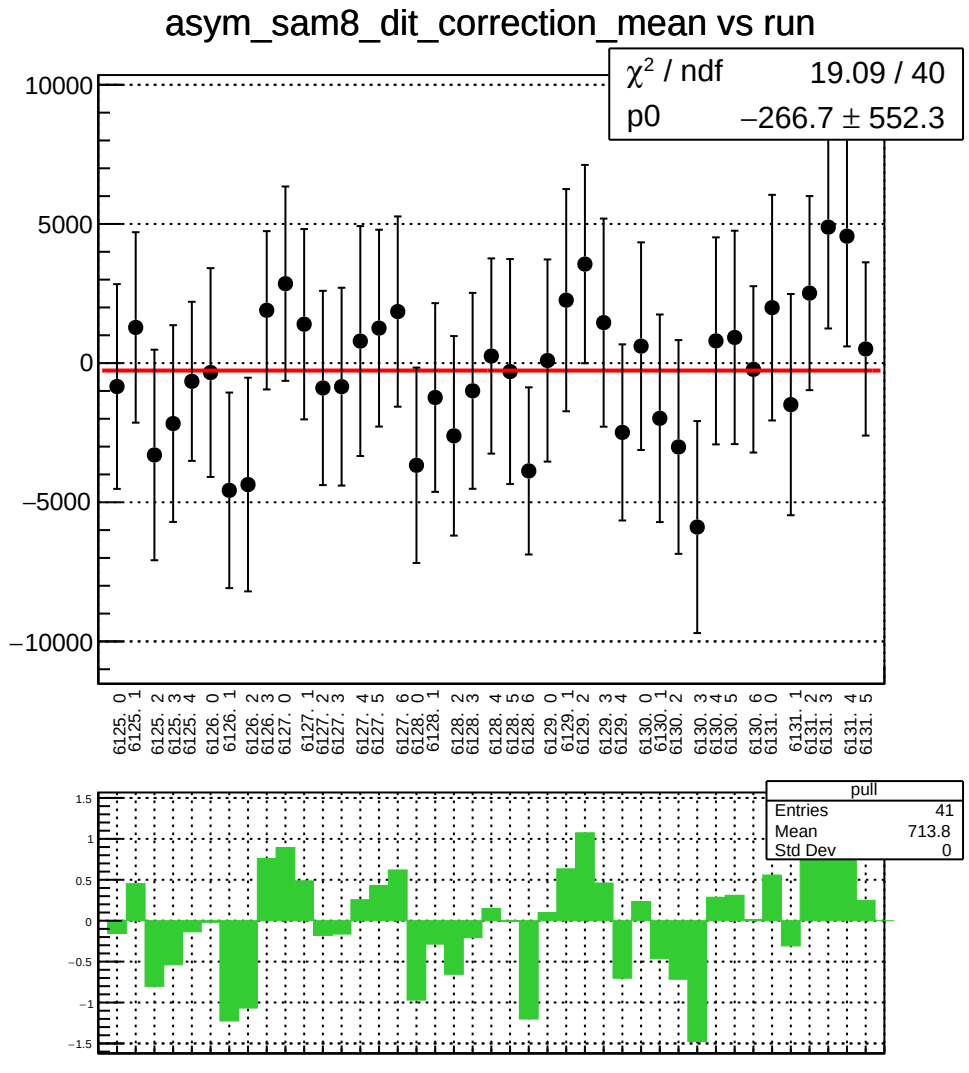
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam8_dit_correction_mean vs run
χ² / ndf 19.09 / 40
p0 −266.7 ± 552.3
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6126. 4
6127. 0
6127. 1
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6127. 5
6127. 6
6128. 0
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6128. 2
6128. 3
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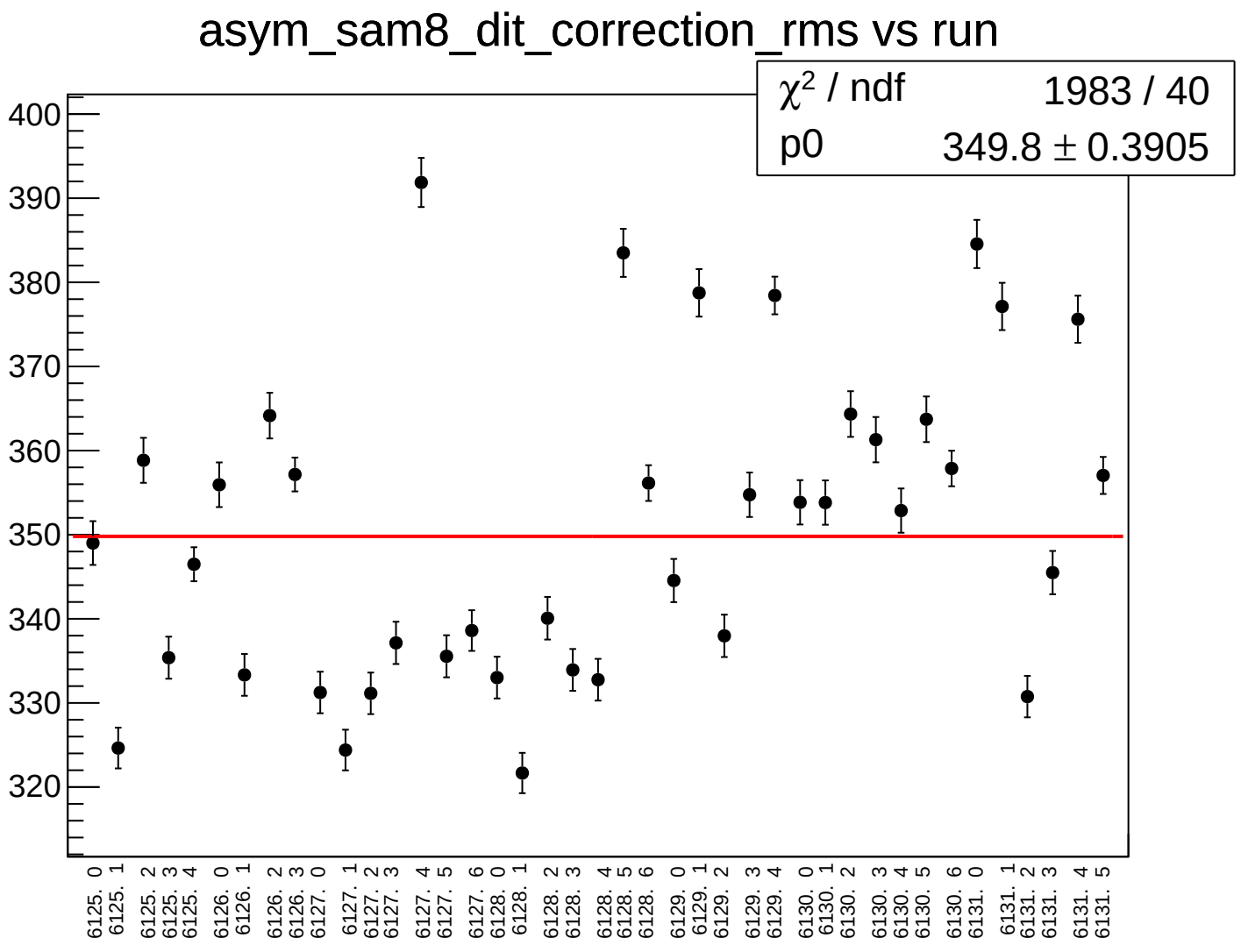
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 713.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.003016
Std Dev 0.6824
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam8_dit_correction_rms vs run
χ² / ndf 1983 / 40
p0 349.8 ± 0.3905
400
390
380
370
360
350
340
330
320
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
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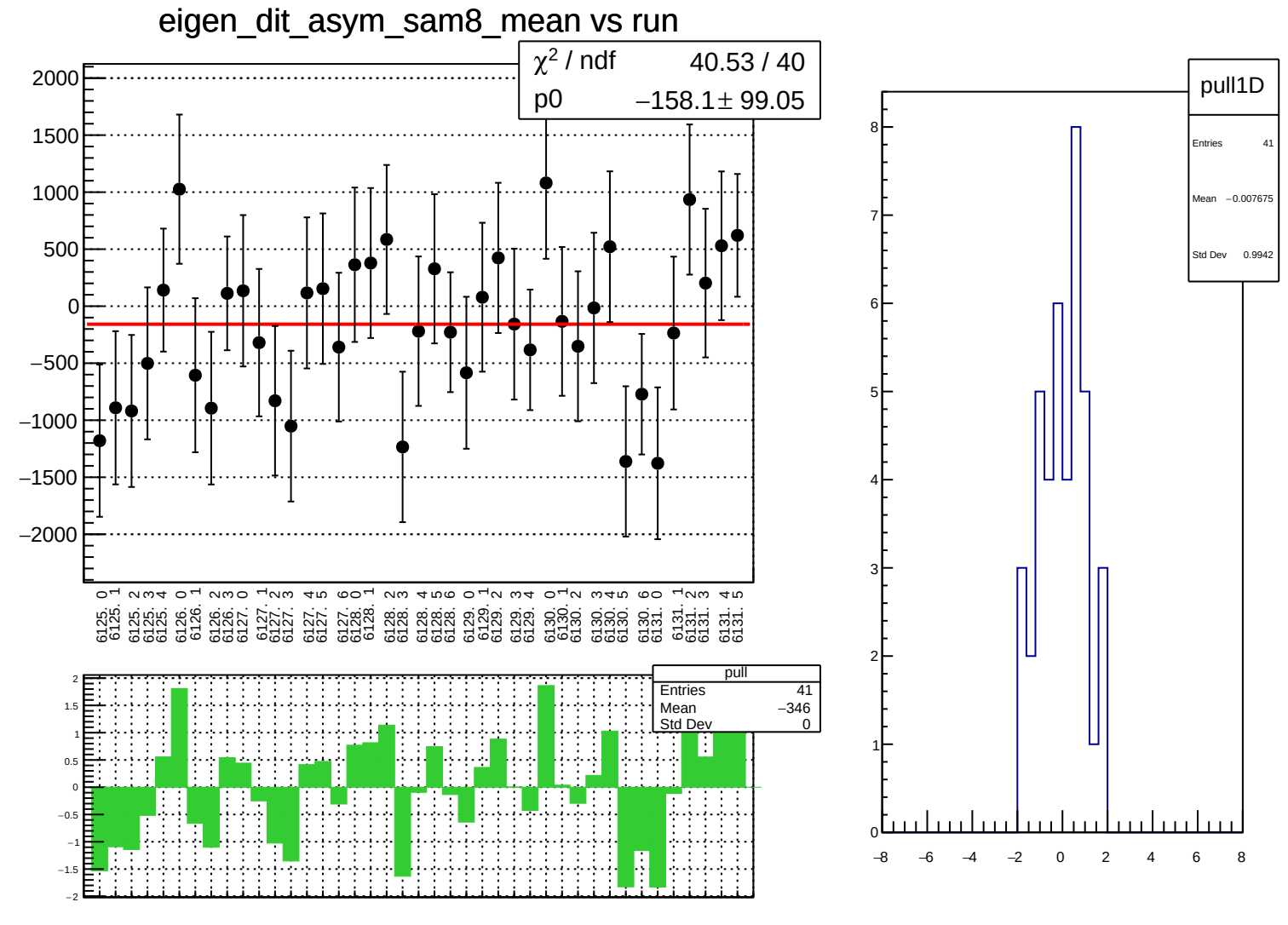
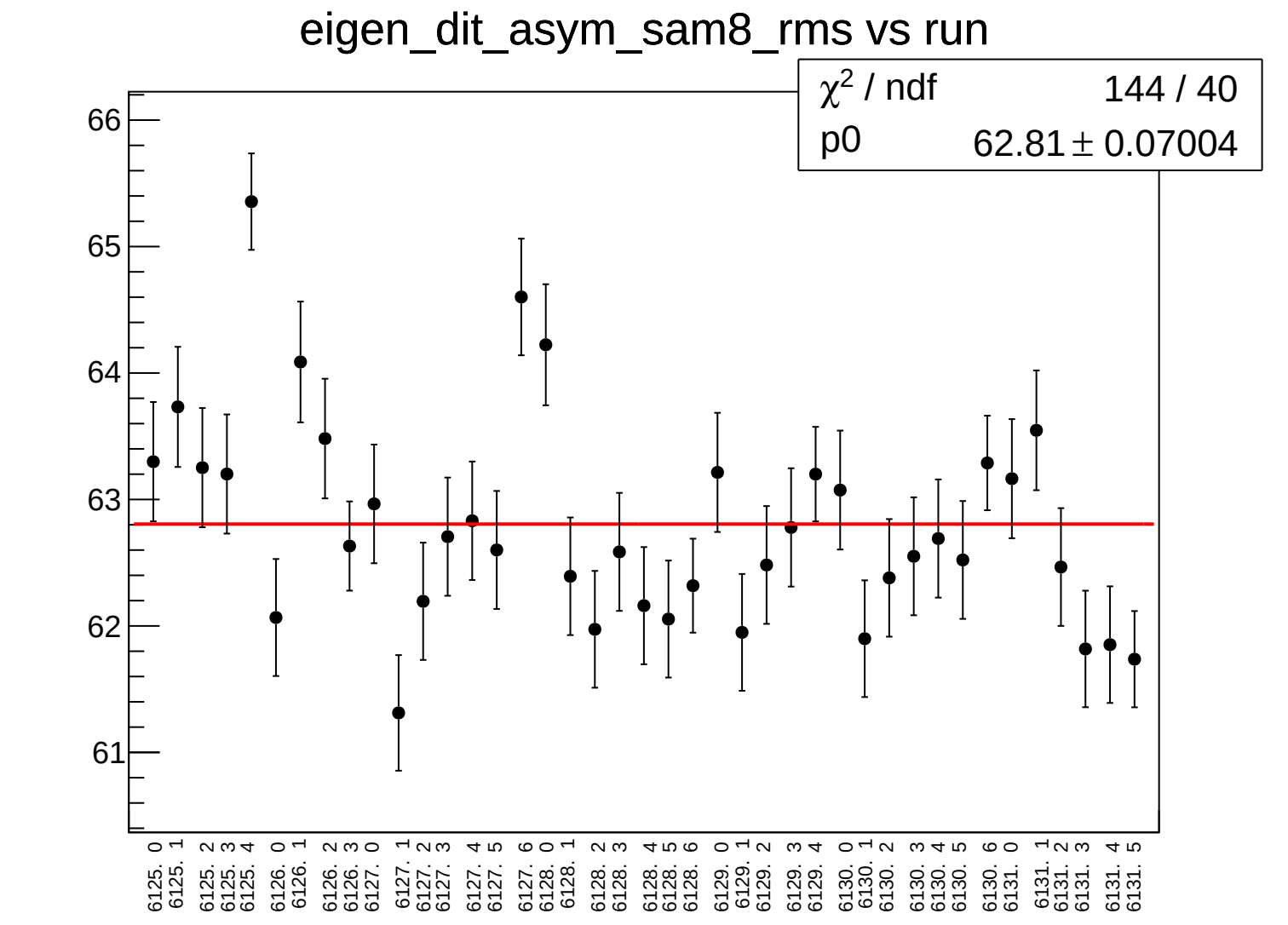
6131. 4
6131. 5


eigen_dit_asym_sam8_mean vs run
χ² / ndf 40.53 / 40
p0 −158.1± 99.05
pull
Entries 41
Mean −346
Std Dev 0
pull1D
Entries 41
Mean −0.007675
Std Dev 0.9942


eigen_dit_asym_sam8_rms vs run
χ² / ndf 144 / 40
p0 62.81 ± 0.07004
66
65
64
63
62
61
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
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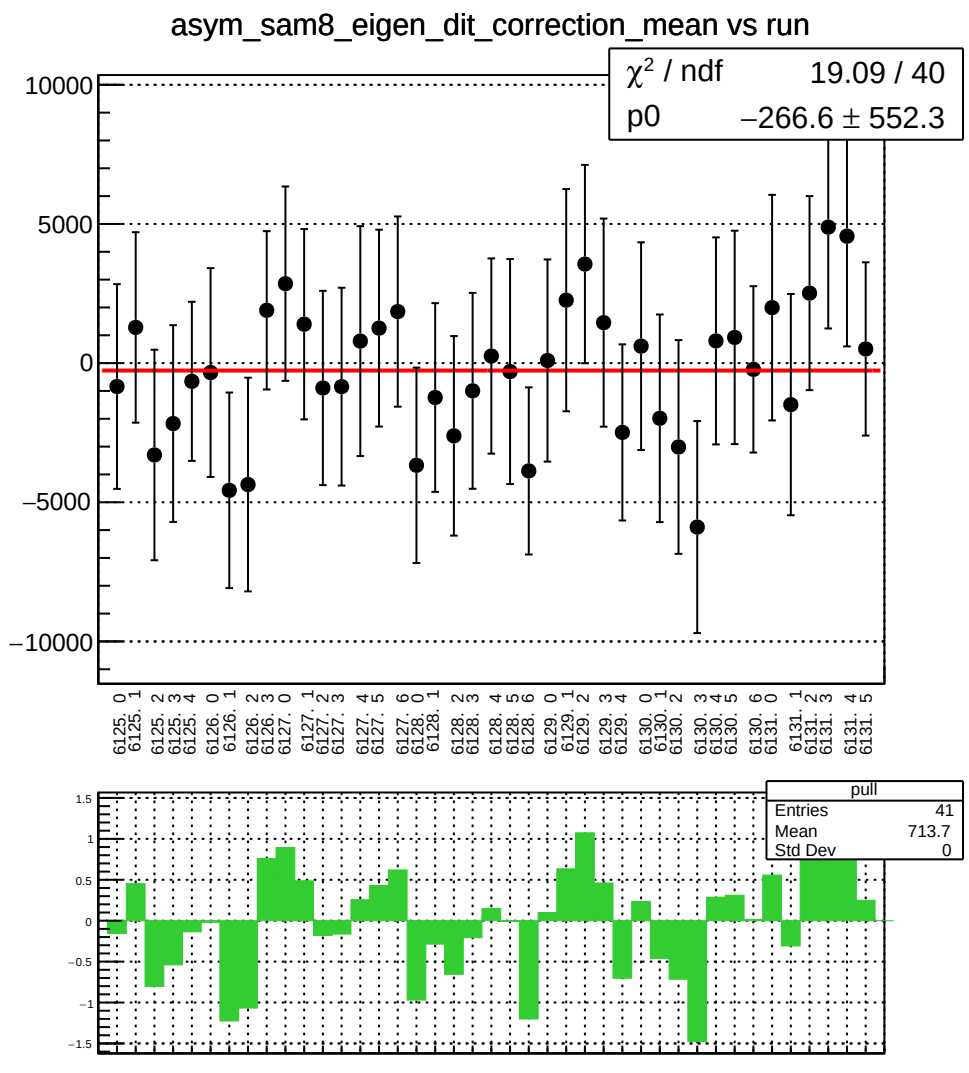
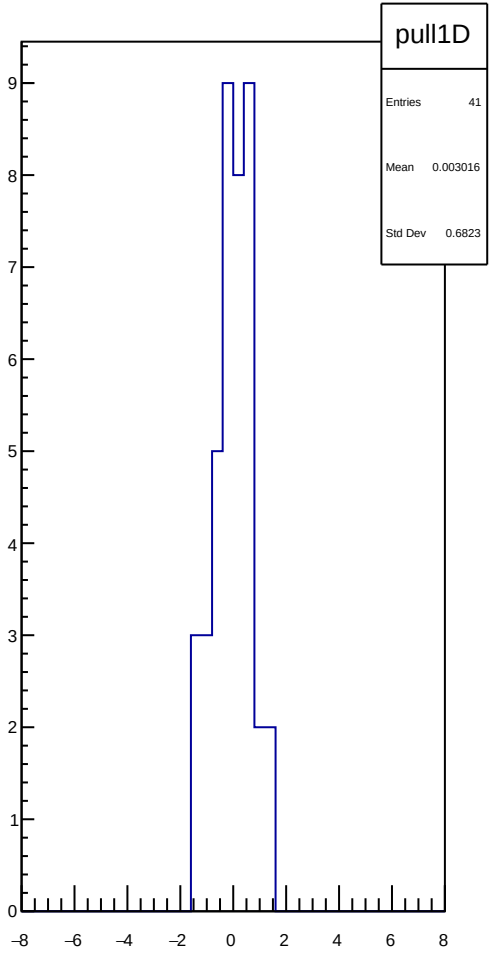
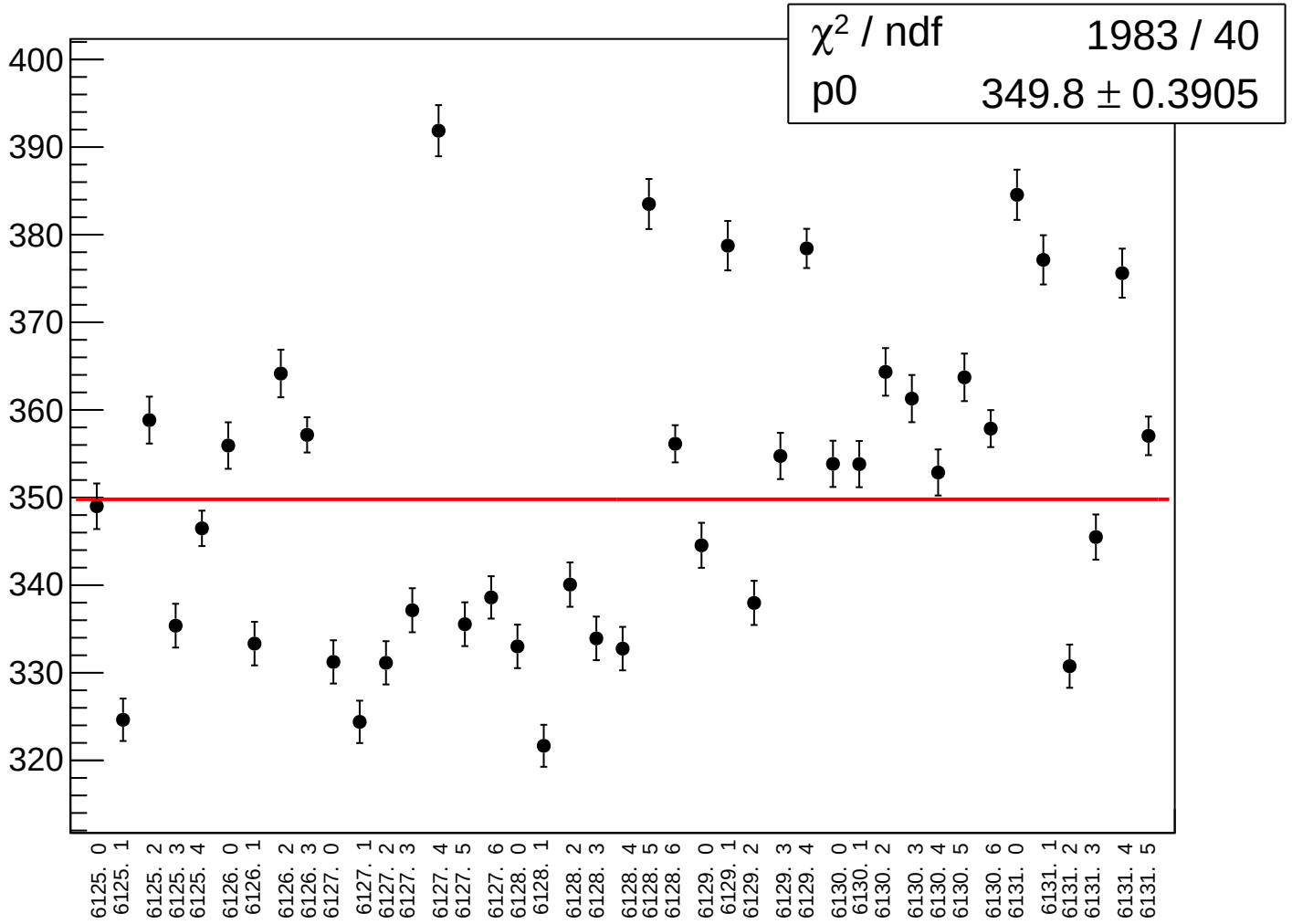
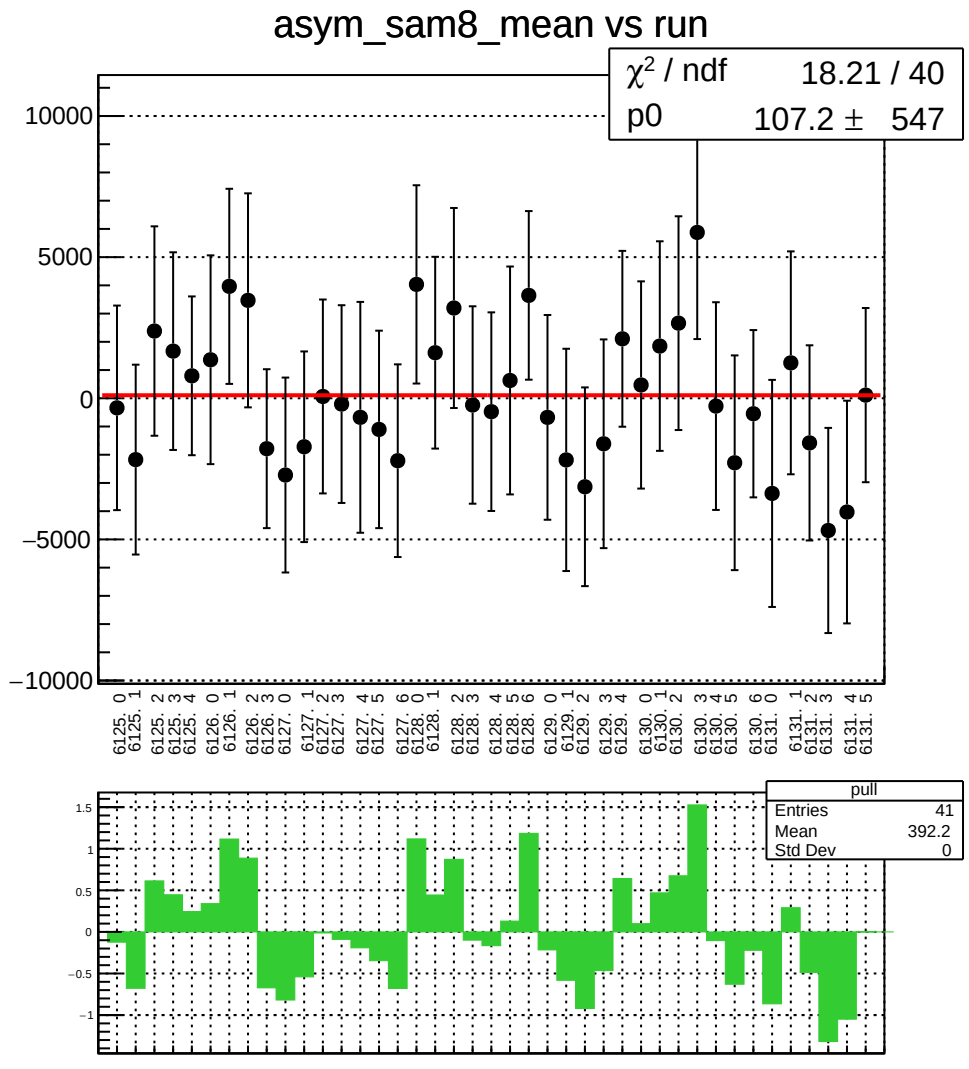
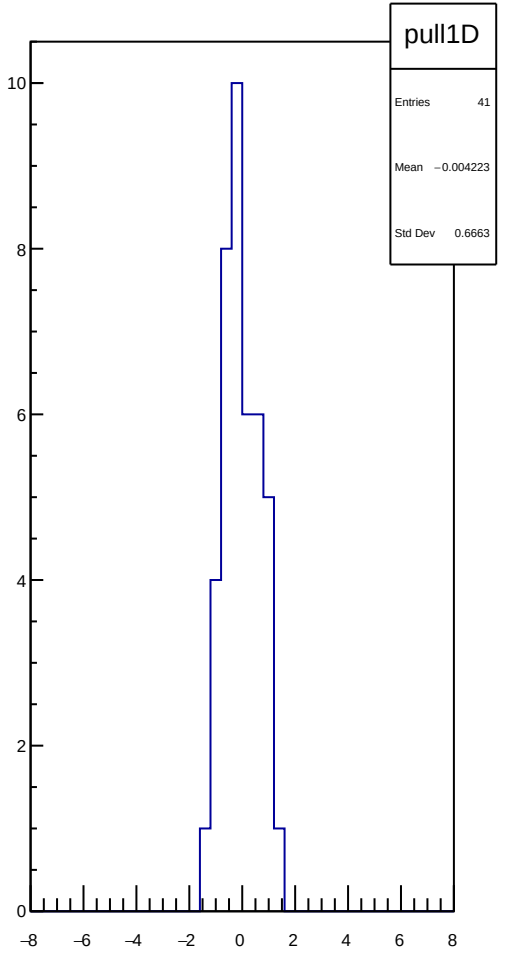
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

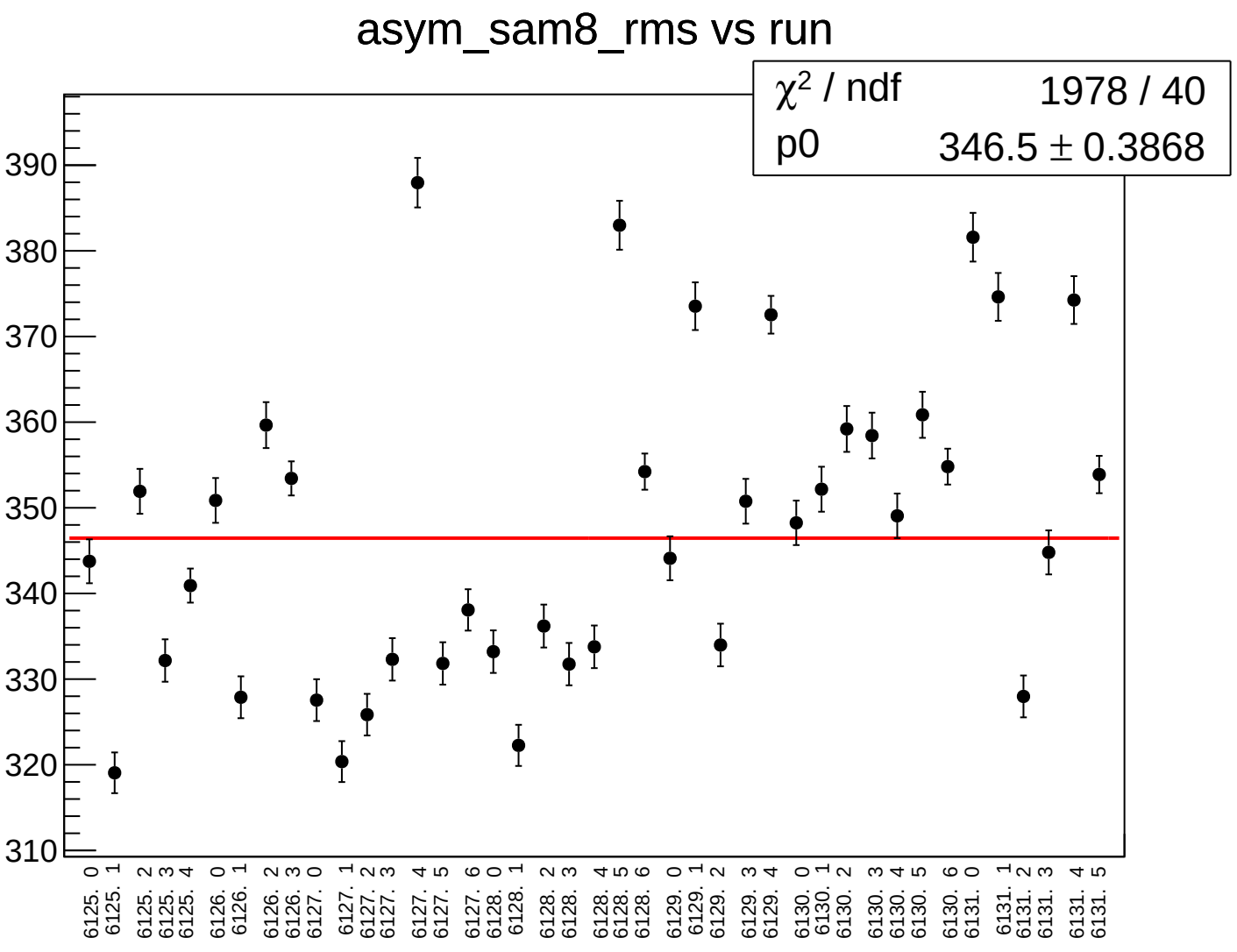

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 19.09 / 40
p0 −266.6 ± 552.3
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 713.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

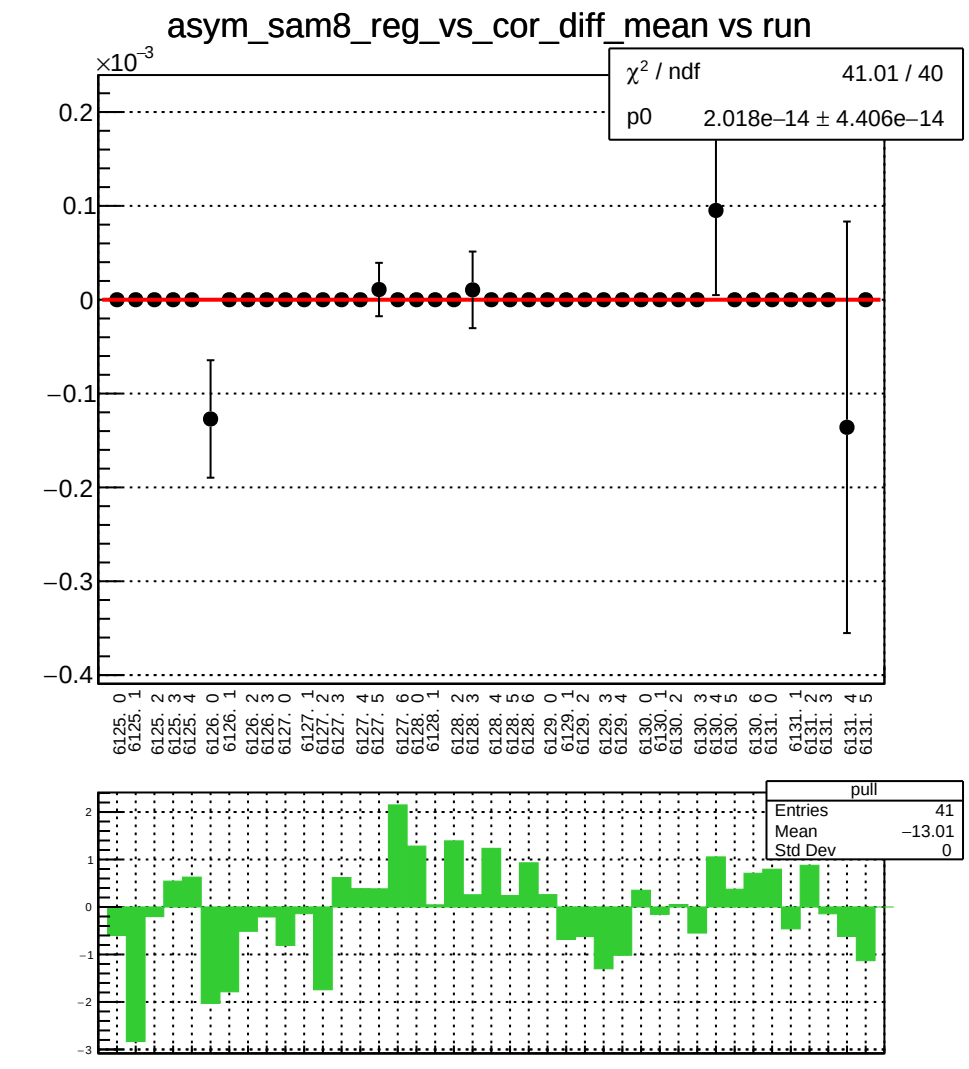

pull1D
Entries 41
Mean 0.003016
Std Dev 0.6823
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

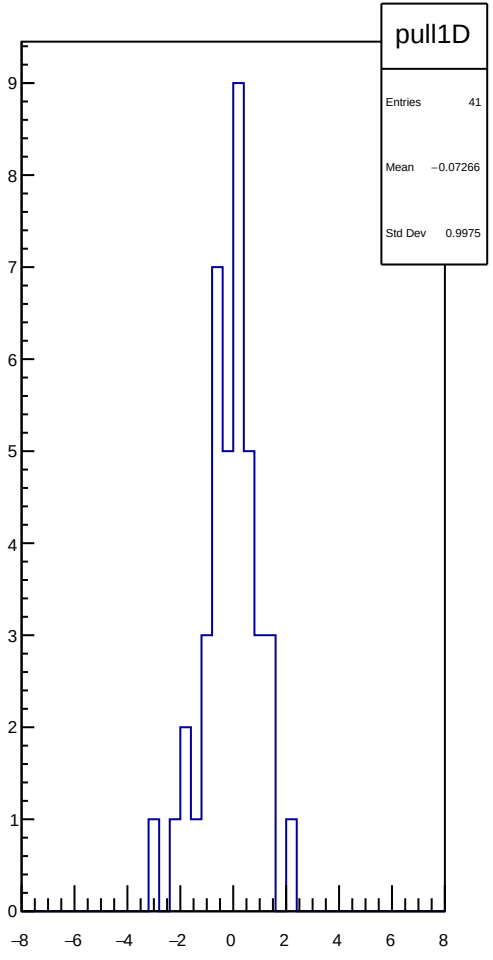

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 1983 / 40
p0 349.8 ± 0.3905
400
390
380
370
360
350
340
330
320
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

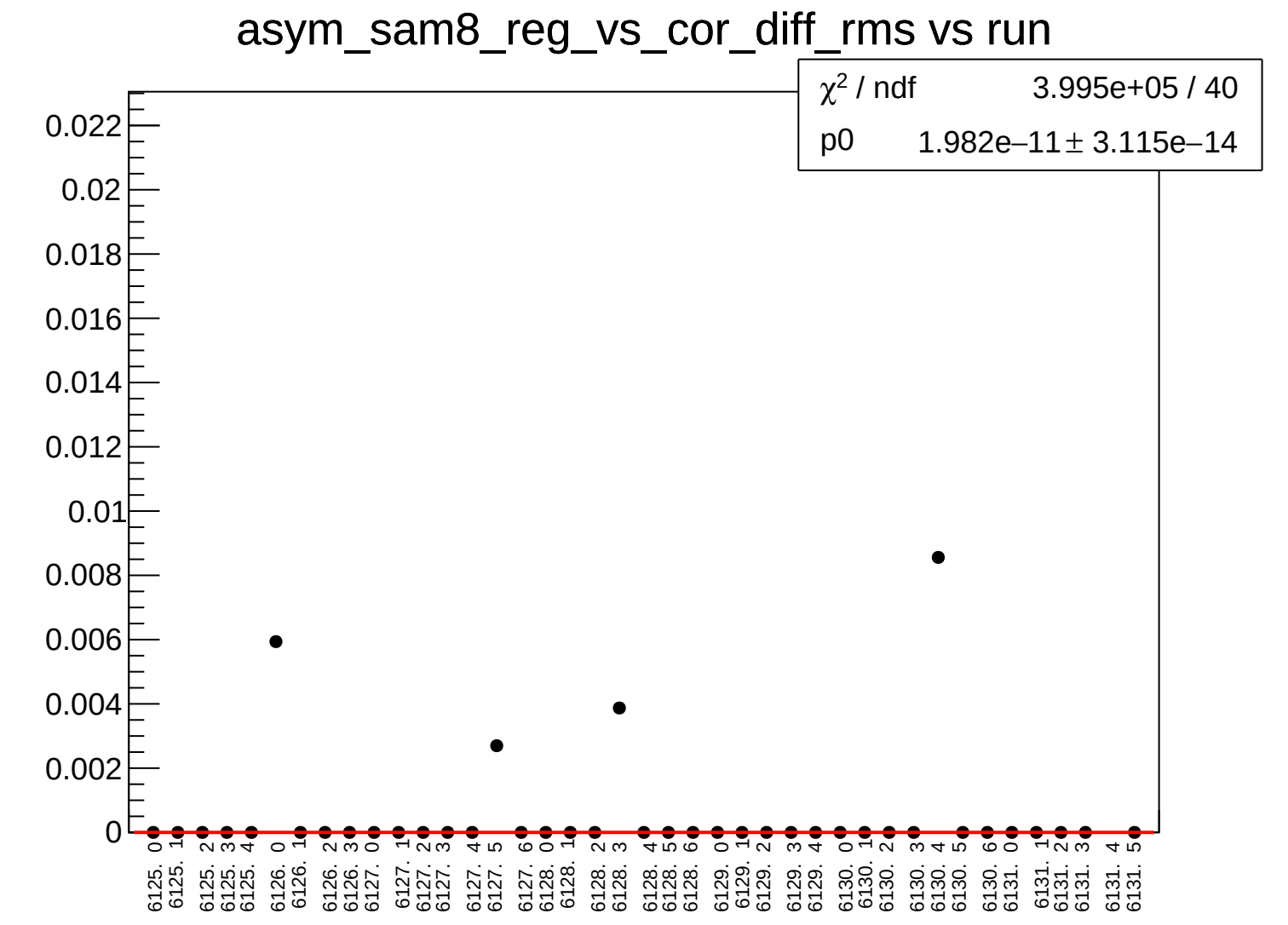

asym_sam8_mean vs run
χ² / ndf 18.21 / 40
p0 107.2 ± 547
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 392.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1

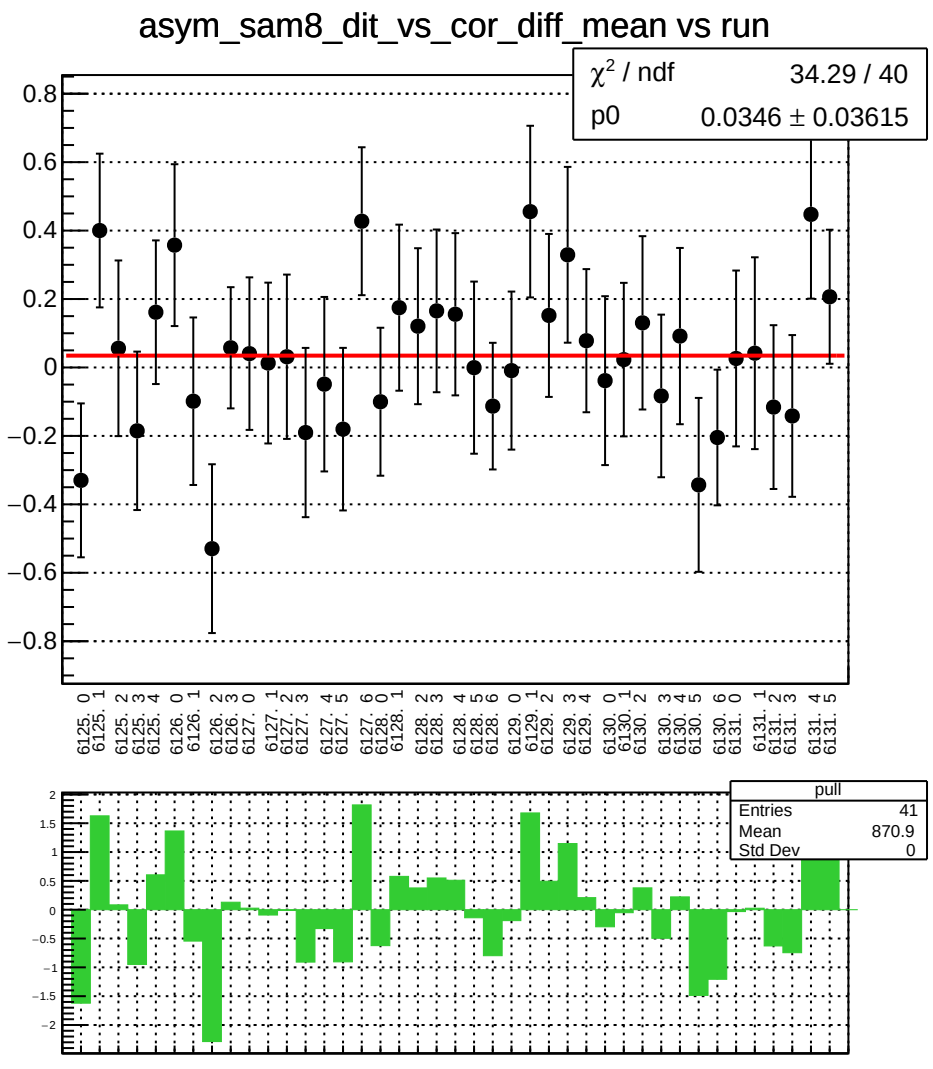

pull1D
Entries 41
Mean −0.004223
Std Dev 0.6663
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

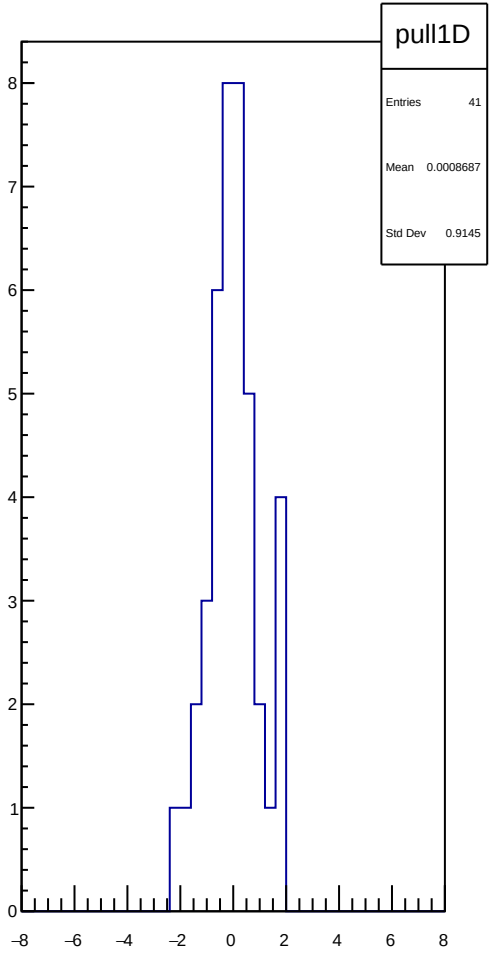

asym_sam8_rms vs run
χ² / ndf 1978 / 40
p0 346.5 ± 0.3868
390
380
370
360
350
340
330
320
310
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

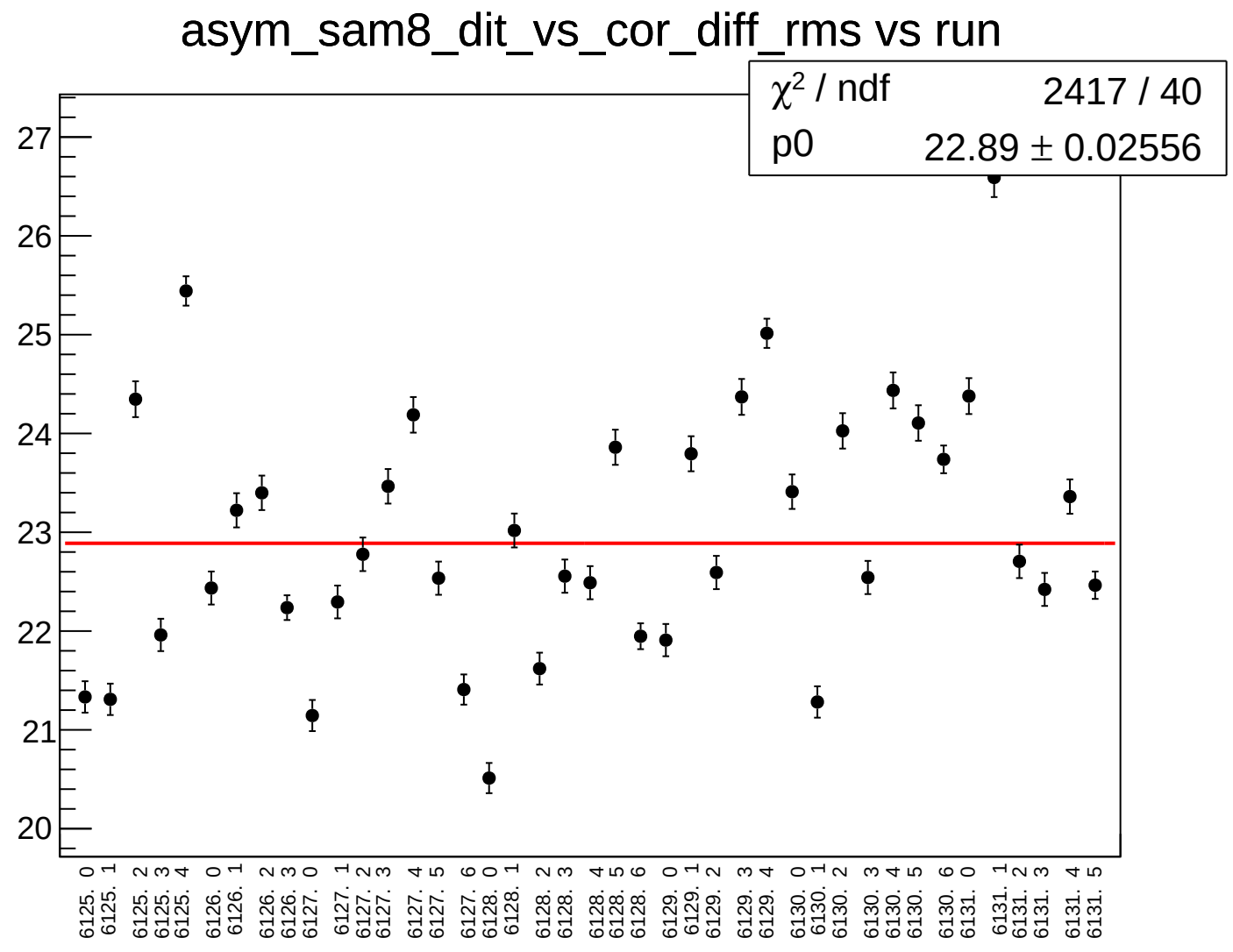

asym_sam8_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 41.01 / 40
p0 2.018e−14 ± 4.406e−14
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −13.01
Std Dev 0
2
1
0
−1
−2
−3

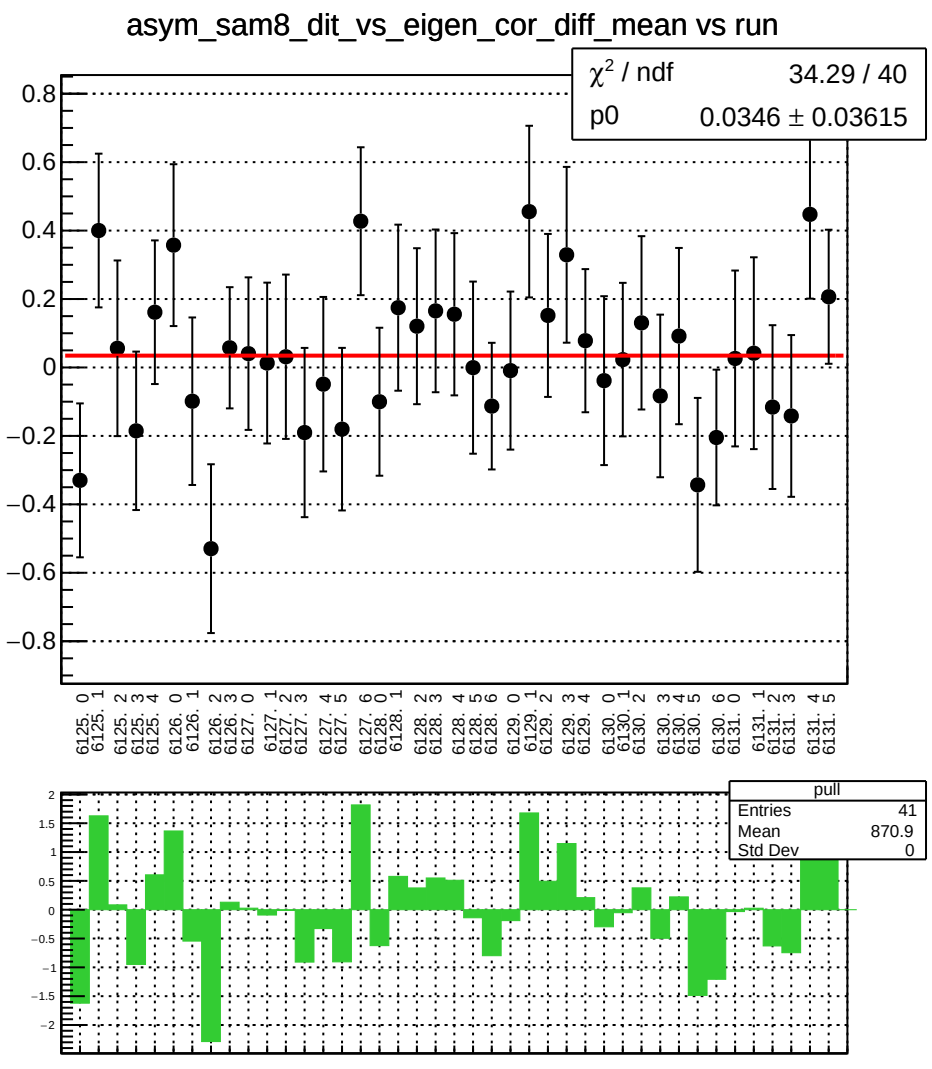

pull1D
Entries 41
Mean −0.07266
Std Dev 0.9975
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

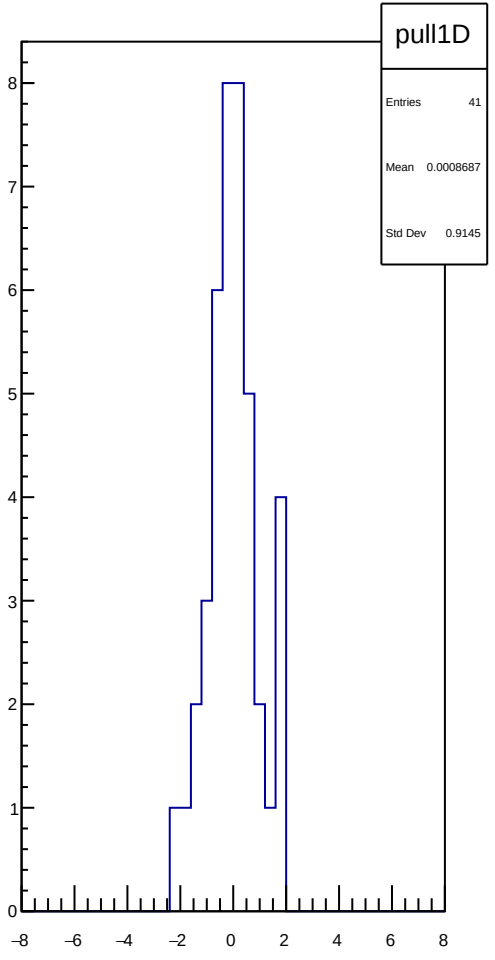

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 3.995e+05 / 40
p0 1.982e−11 ± 3.115e−14
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

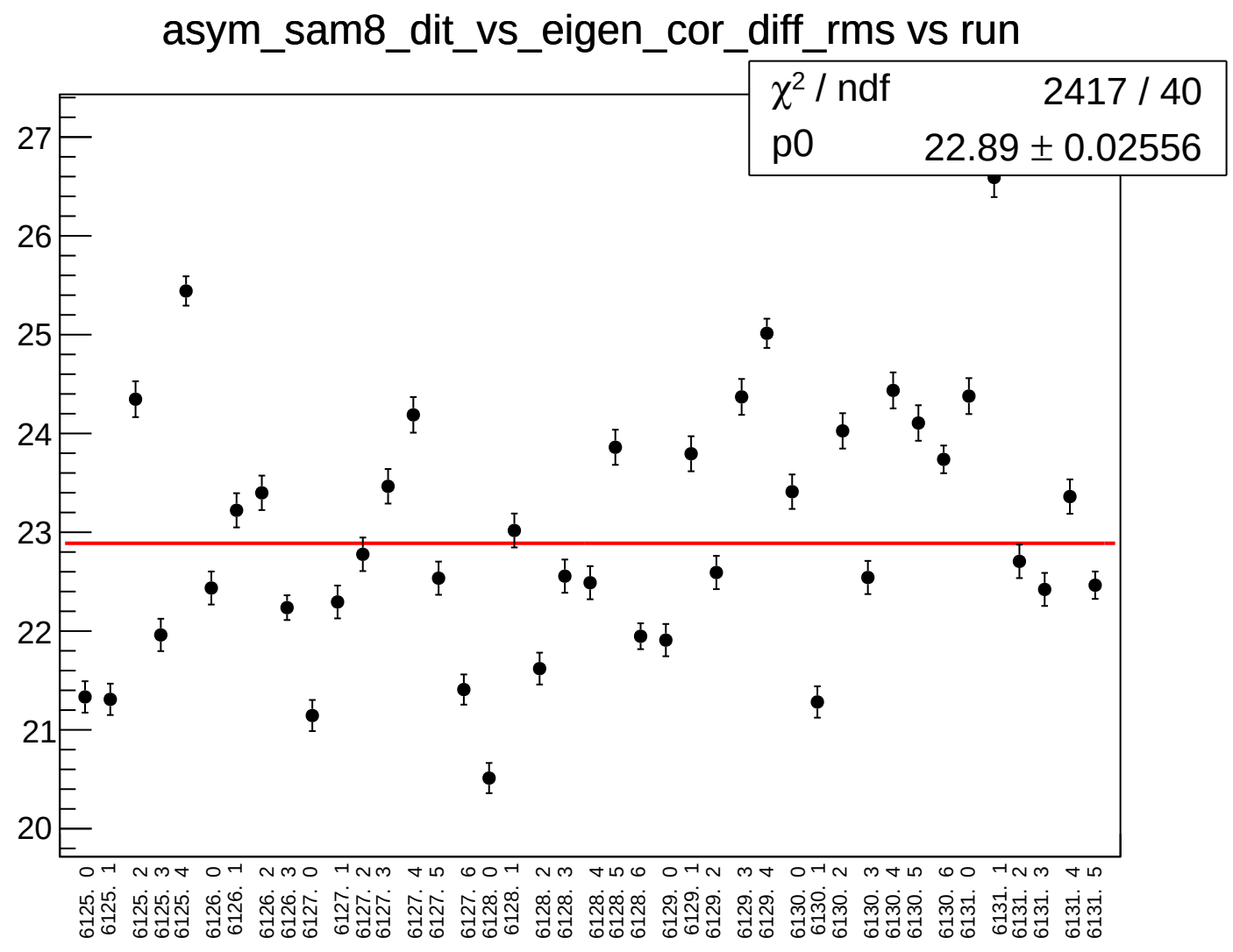

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 34.29 / 40
p0 0.0346 ± 0.03615
pull
Entries 41
Mean 870.9
Std Dev 0

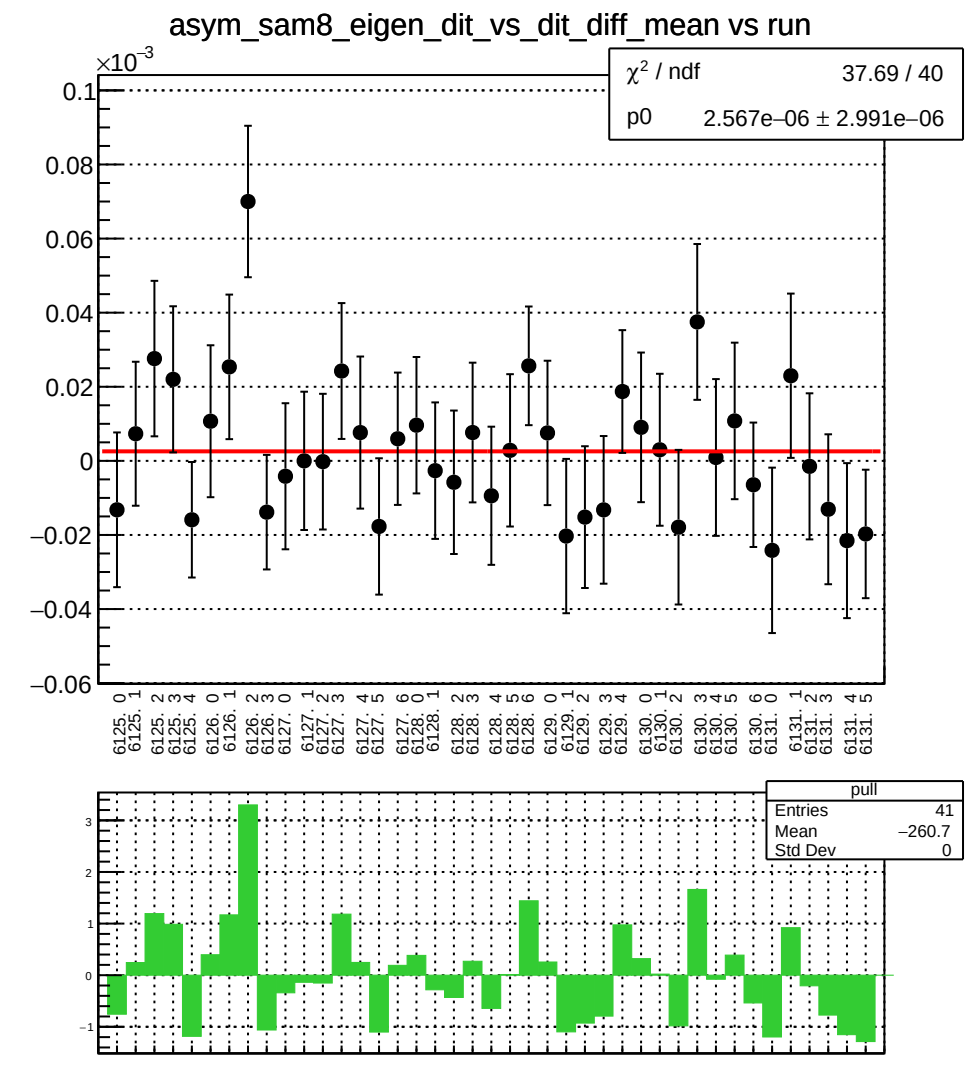

pull1D
Entries 41
Mean 0.0008687
Std Dev 0.9145

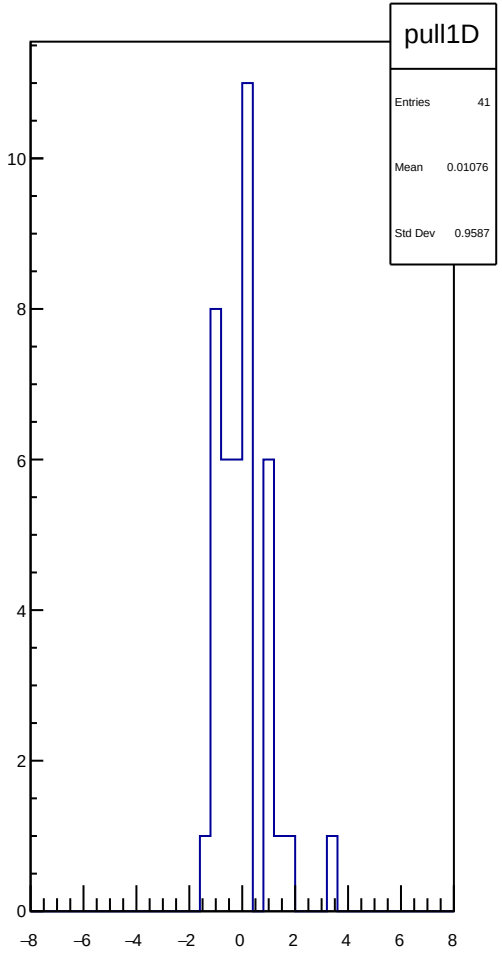

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 2417 / 40
p0 22.89 ± 0.02556
27
26
25
24
23
22
21
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

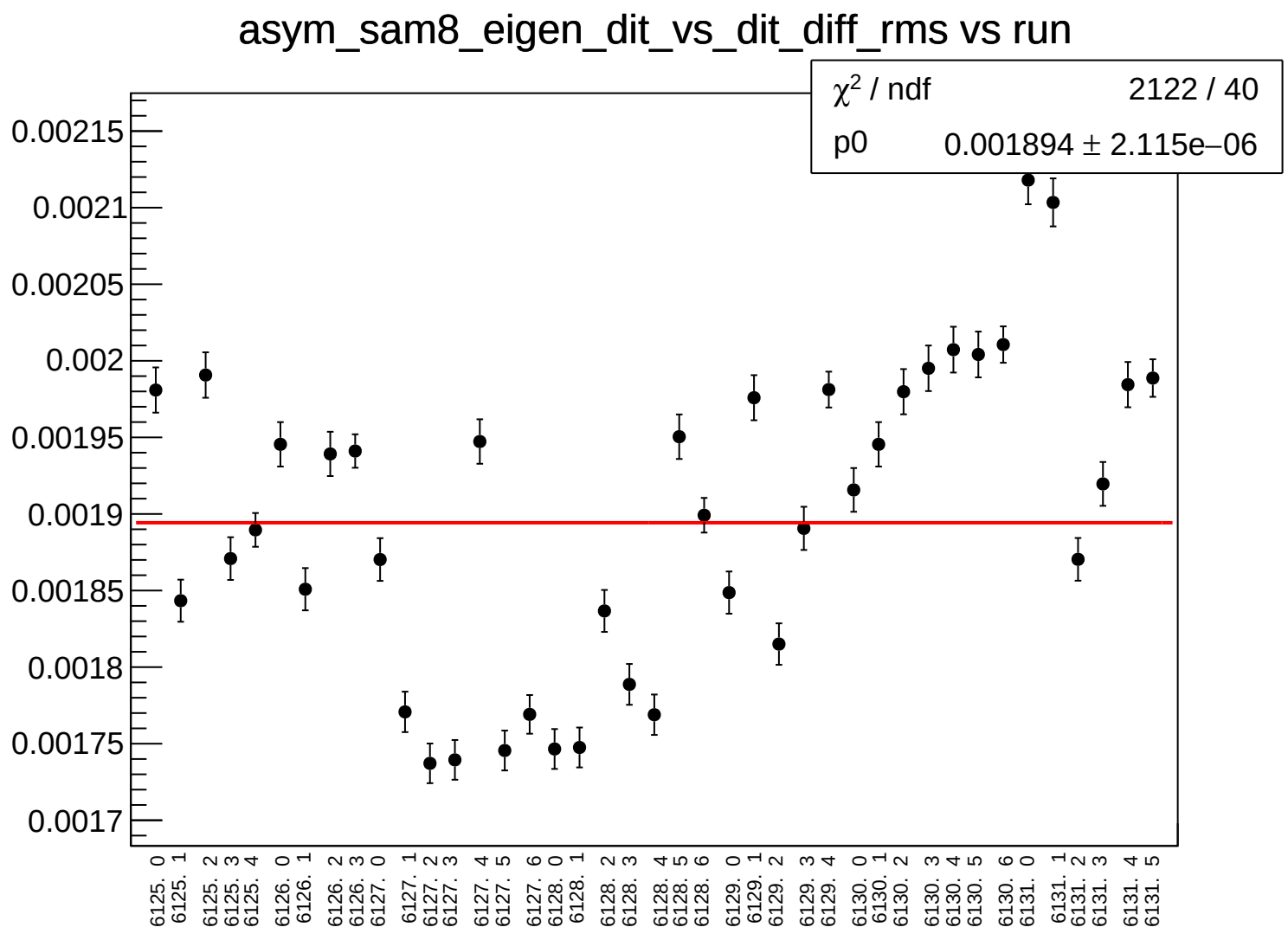

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.29 / 40
p0 0.0346 ± 0.03615
pull
Entries 41
Mean 870.9
Std Dev 0

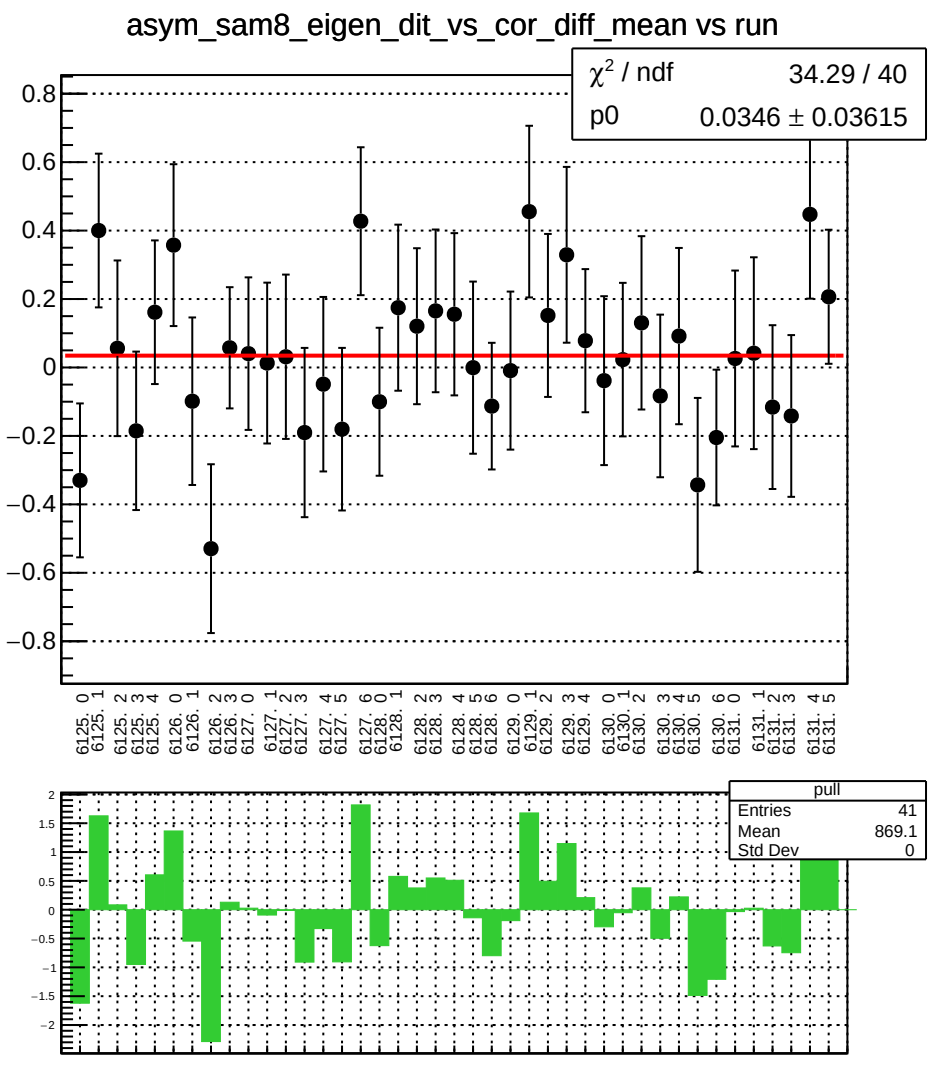

pull1D
Entries 41
Mean 0.0008687
Std Dev 0.9145

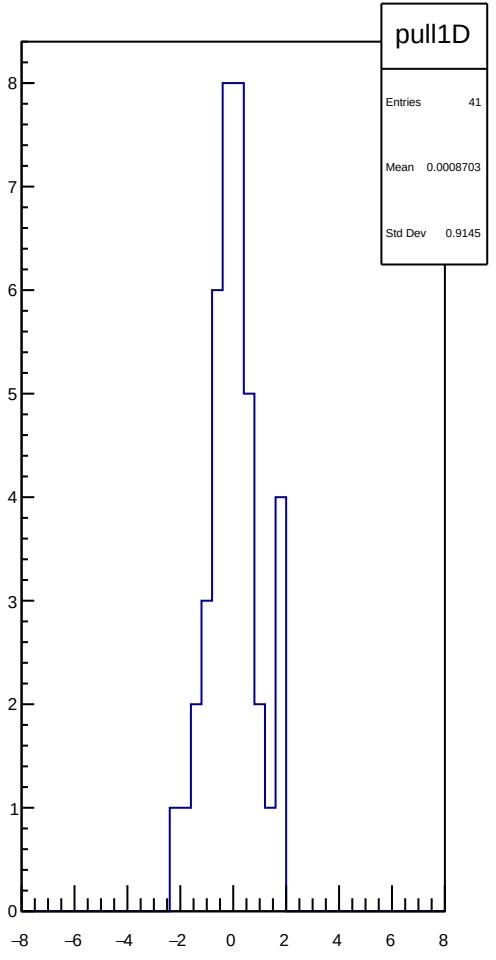

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2417 / 40
p0 22.89 ± 0.02556
27
26
25
24
23
22
21
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

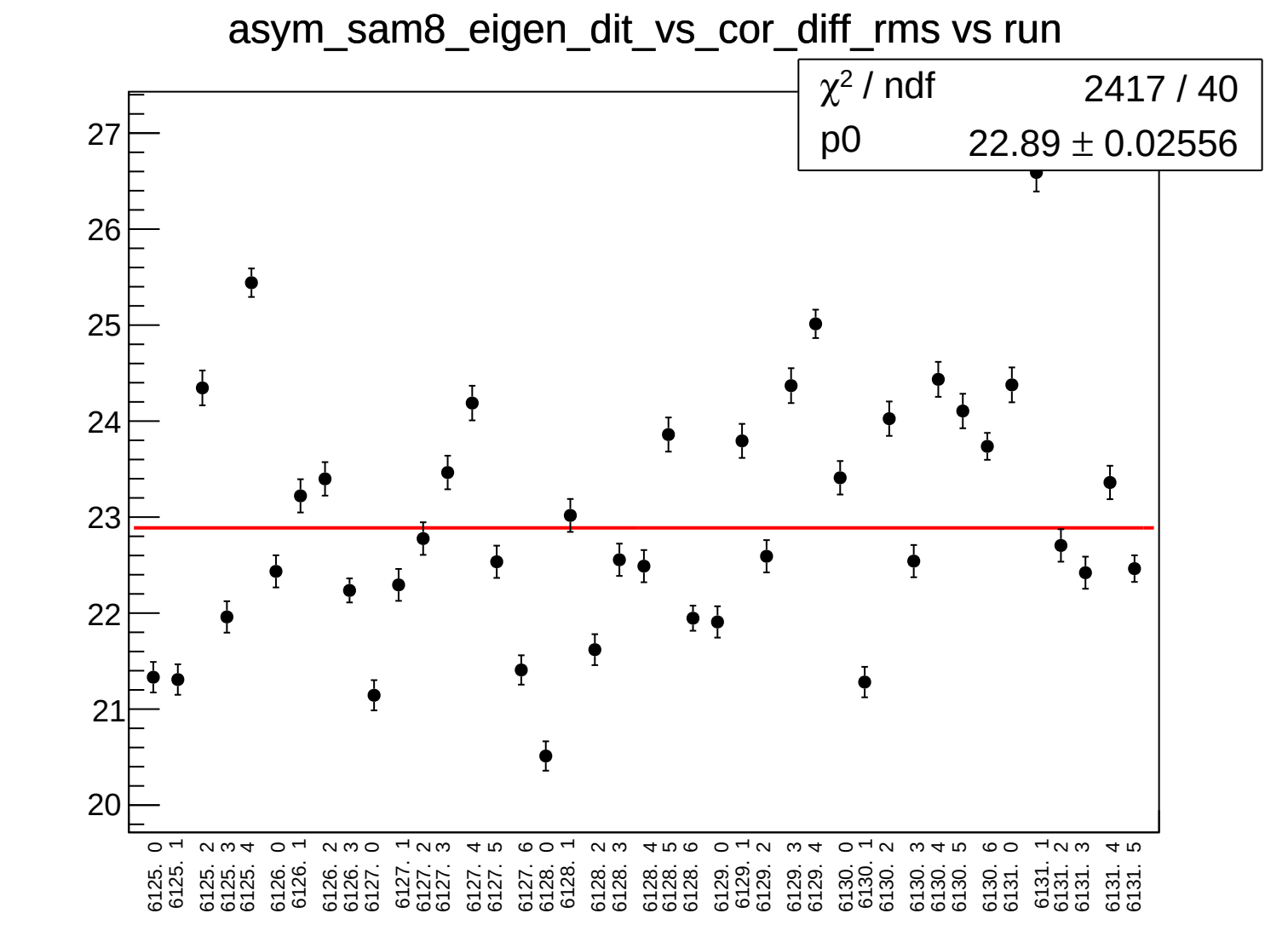

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 37.69 / 40
p0 2.567e−06 ± 2.991e−06
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −260.7
Std Dev 0
3
2
1
0
−1

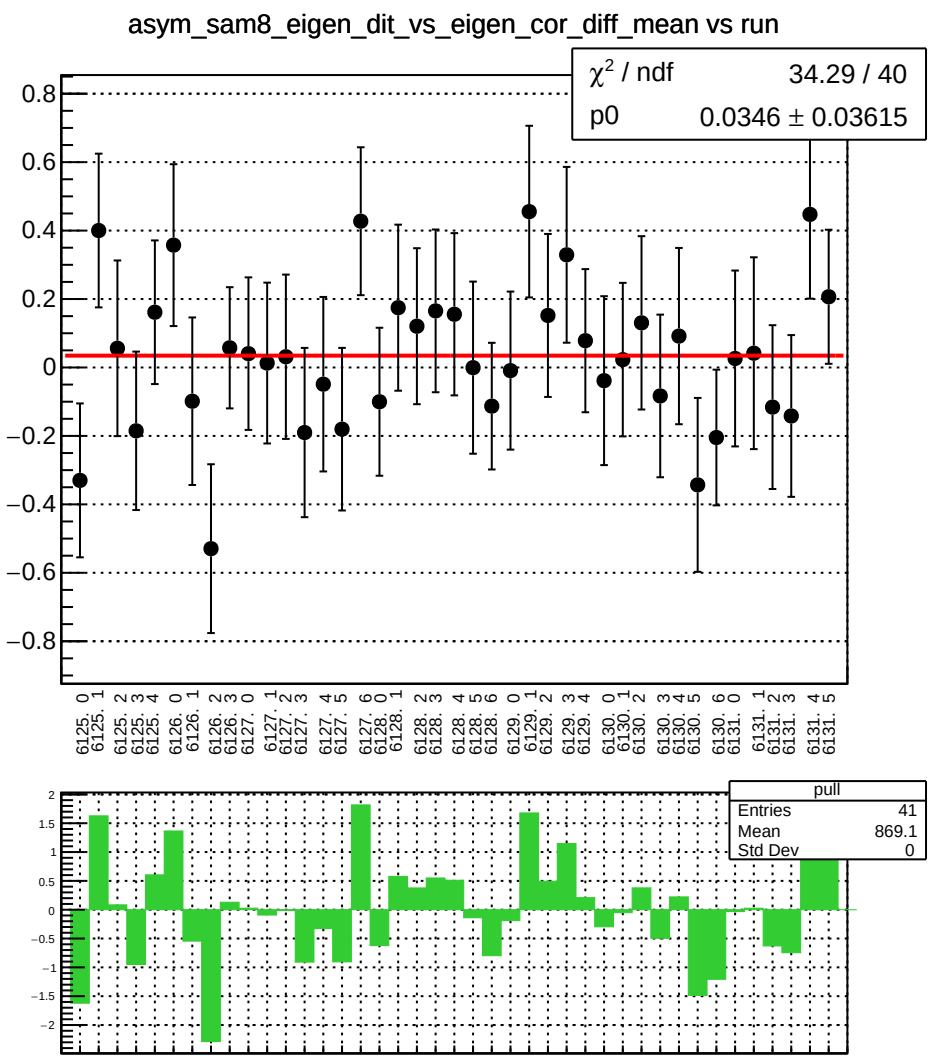

pull1D
Entries 41
Mean 0.01076
Std Dev 0.9587
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

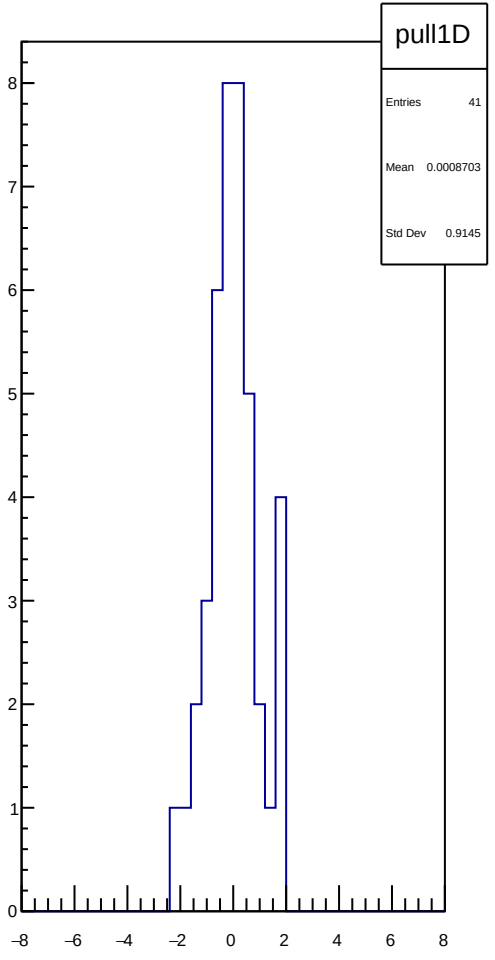

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2122 / 40
p0 0.001894 ± 2.115e−06
0.00215
0.0021
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

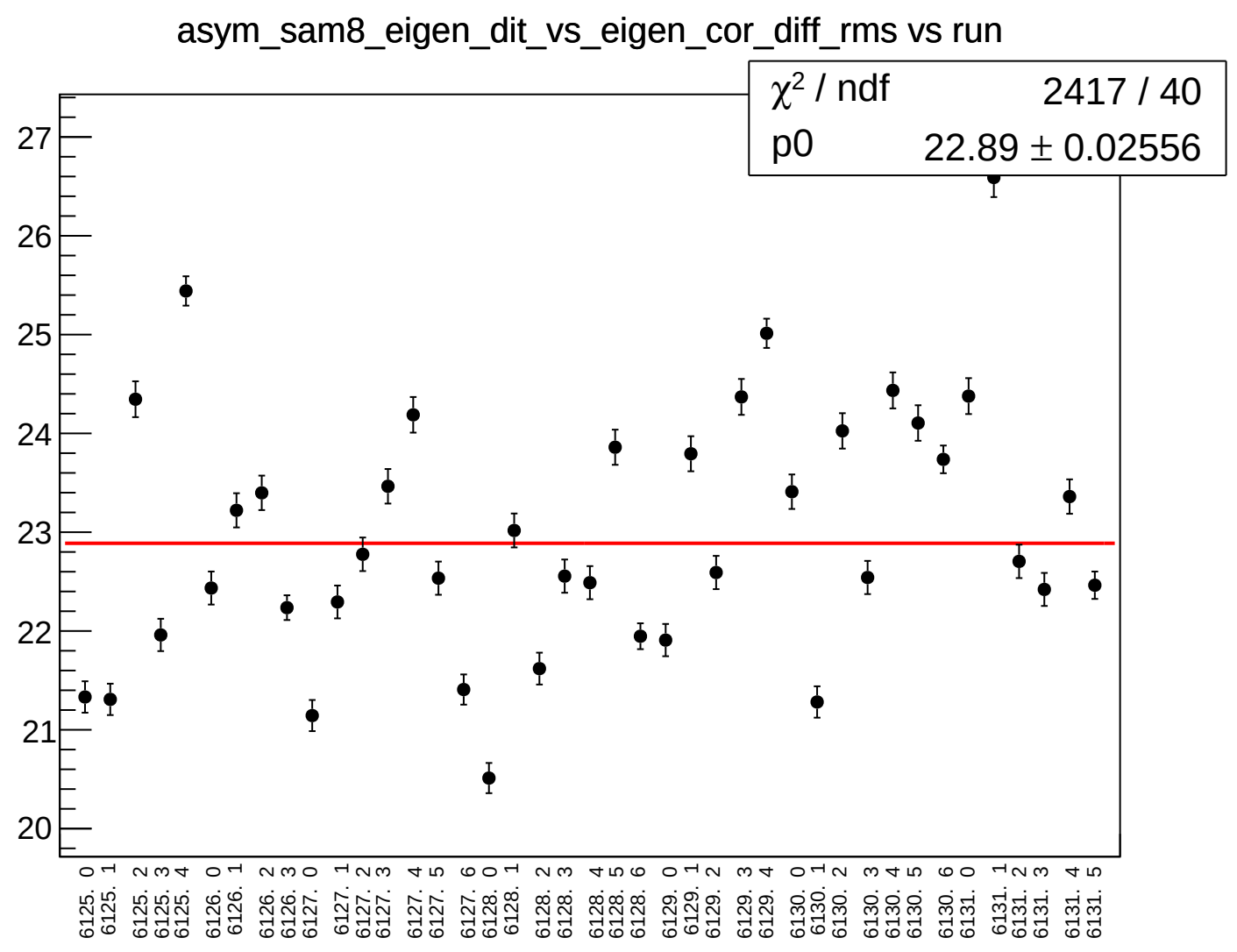

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 34.29 / 40
p0 0.0346 ± 0.03615
pull
Entries 41
Mean 869.1
Std Dev 0

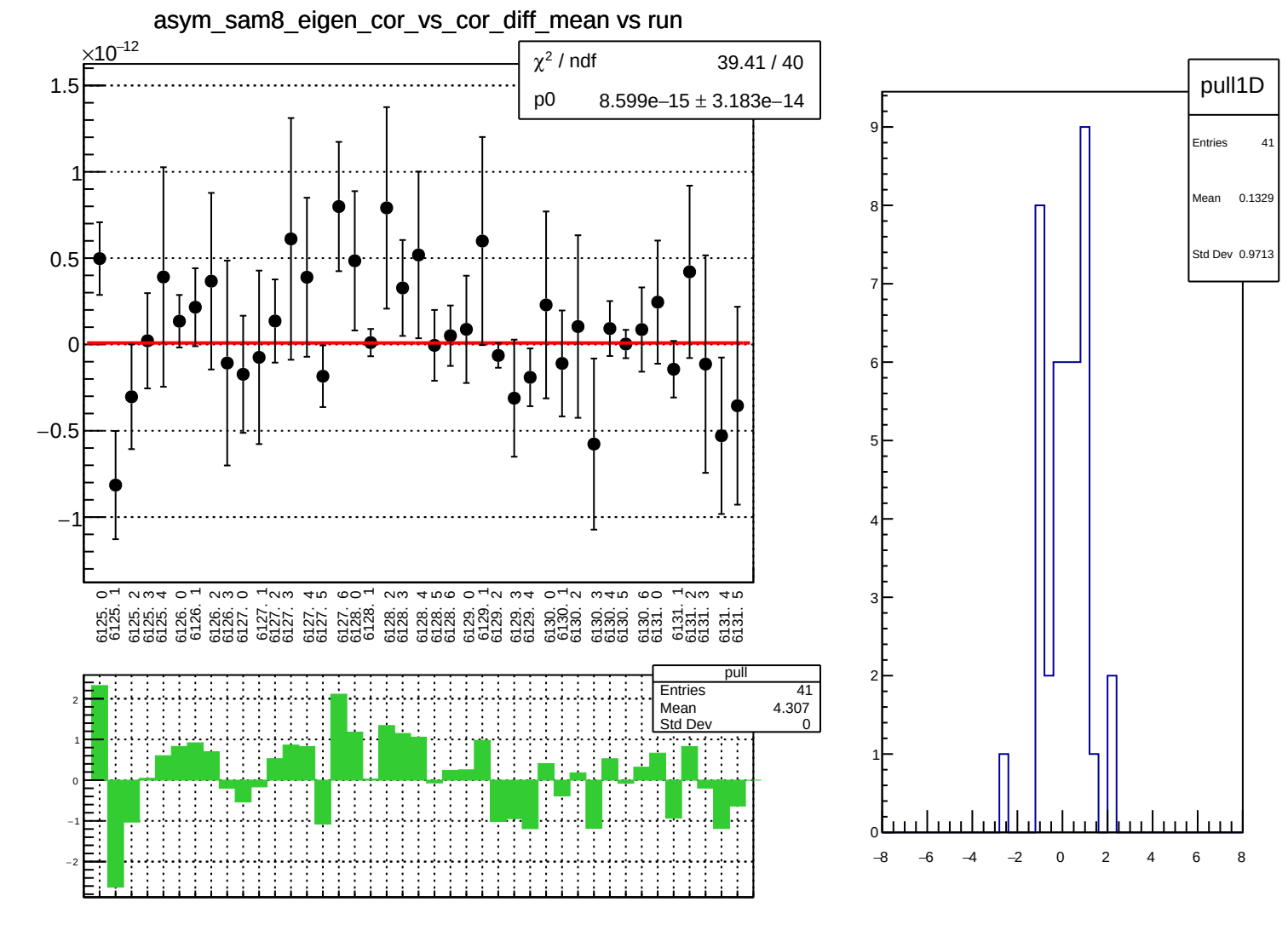

pull1D
Entries 41
Mean 0.0008703
Std Dev 0.9145

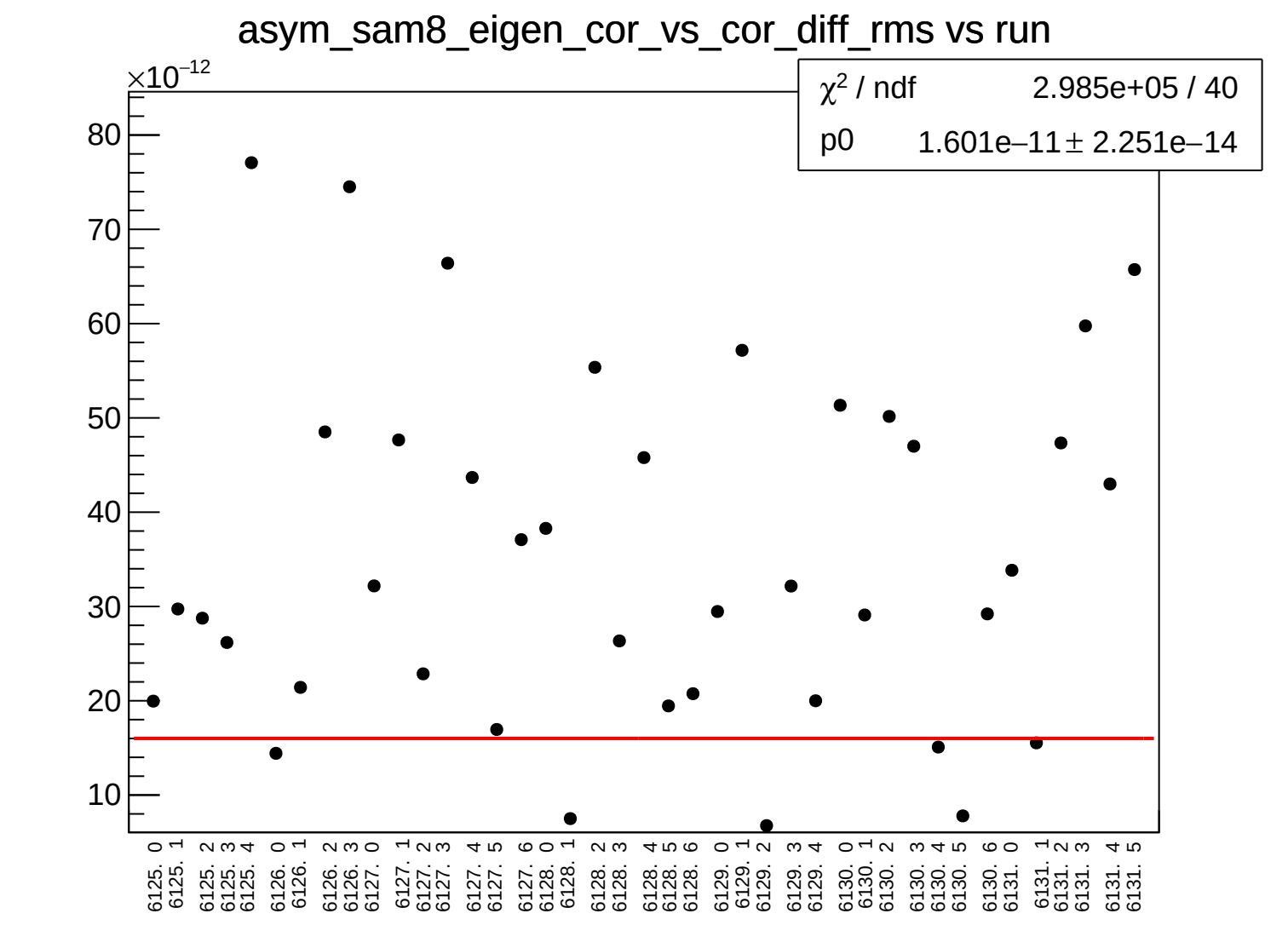

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2417 / 40
p0 22.89 ± 0.02556
27
26
25
24
23
22
21
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

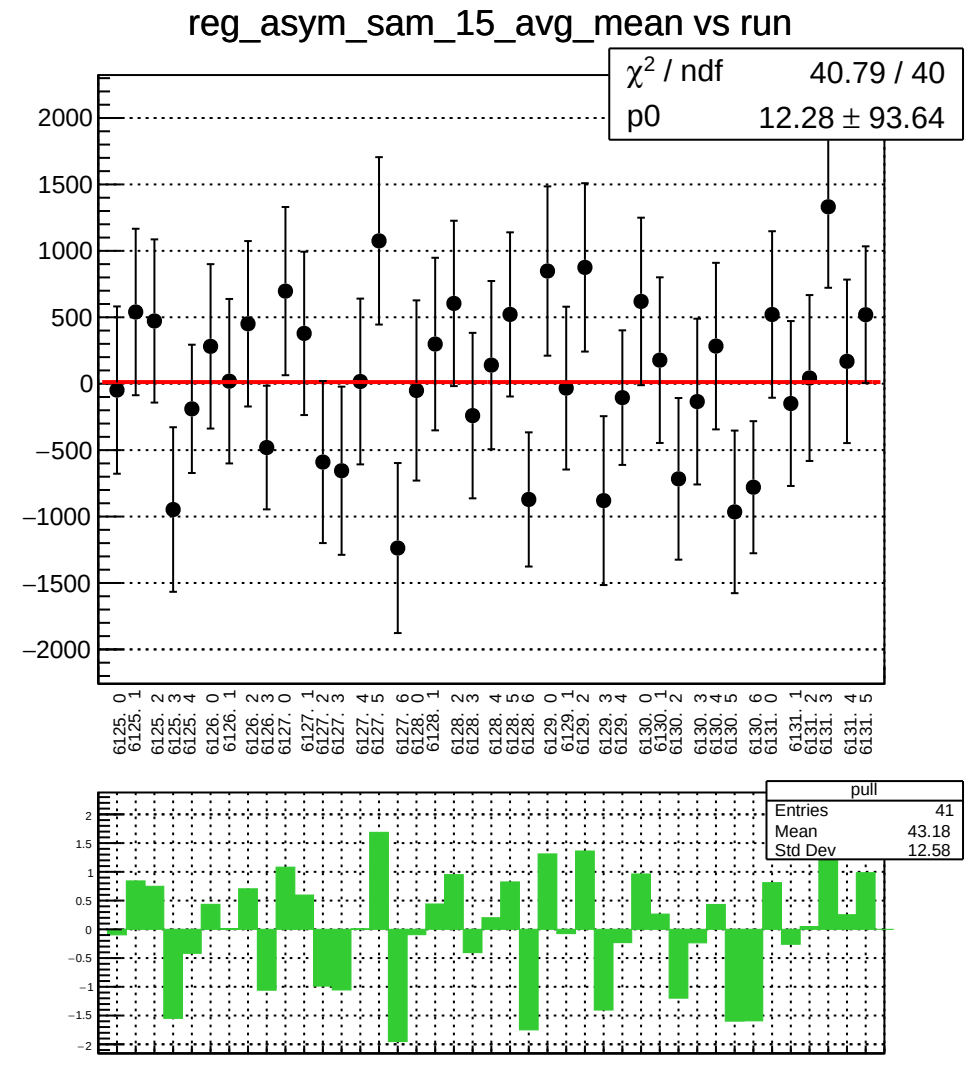

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.29 / 40
p0 0.0346 ± 0.03615
pull
Entries 41
Mean 869.1
Std Dev 0

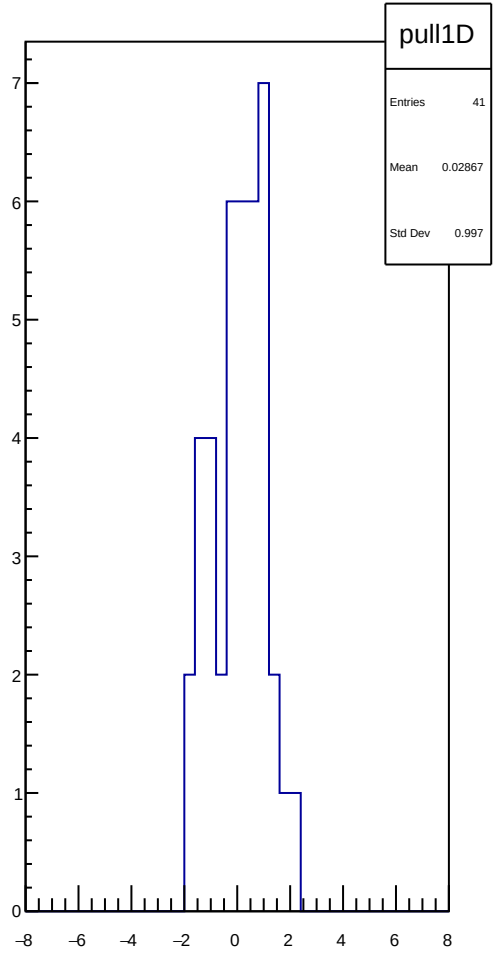

pull1D
Entries 41
Mean 0.0008703
Std Dev 0.9145

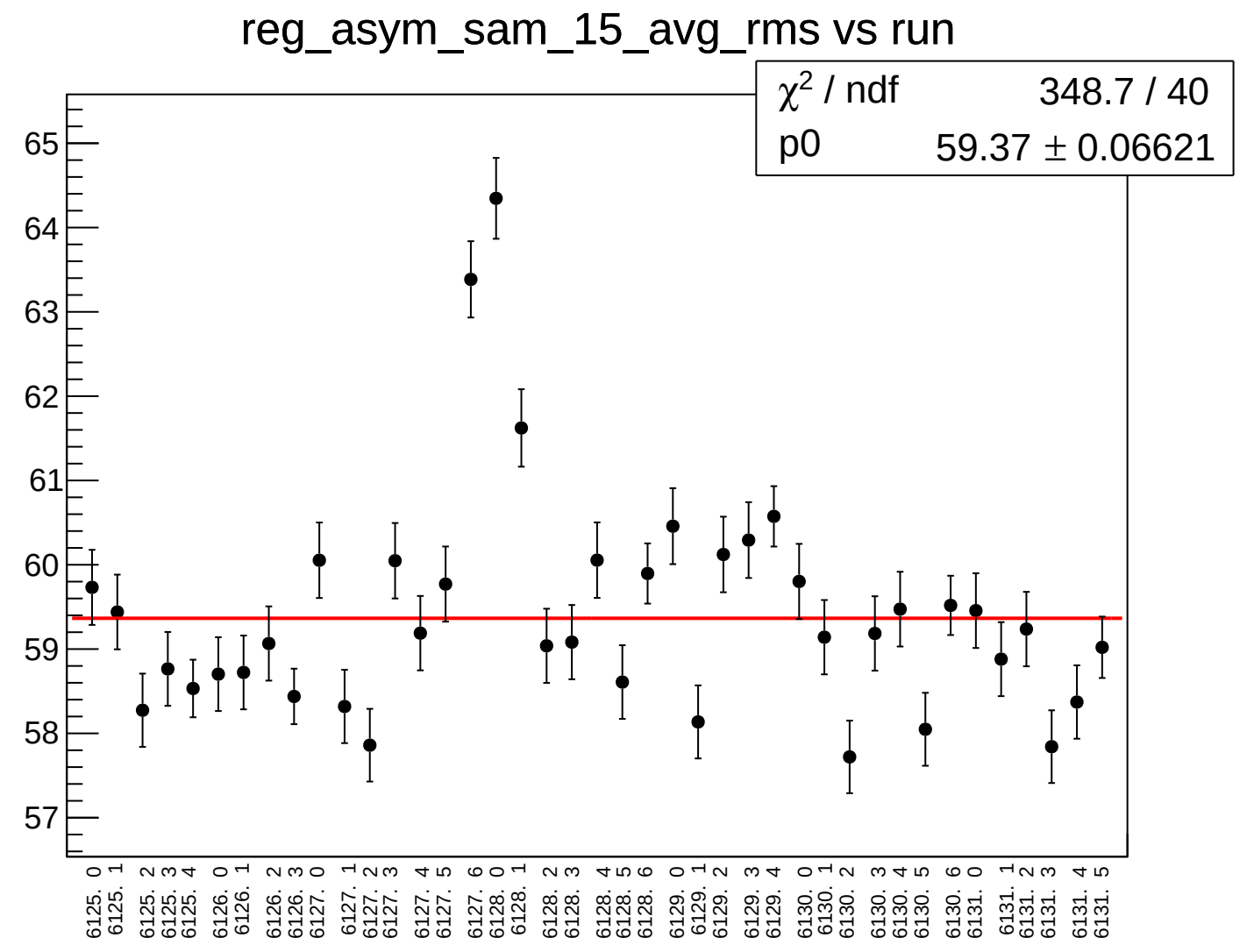

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2417 / 40
p0 22.89 ± 0.02556
27
26
25
24
23
22
21
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

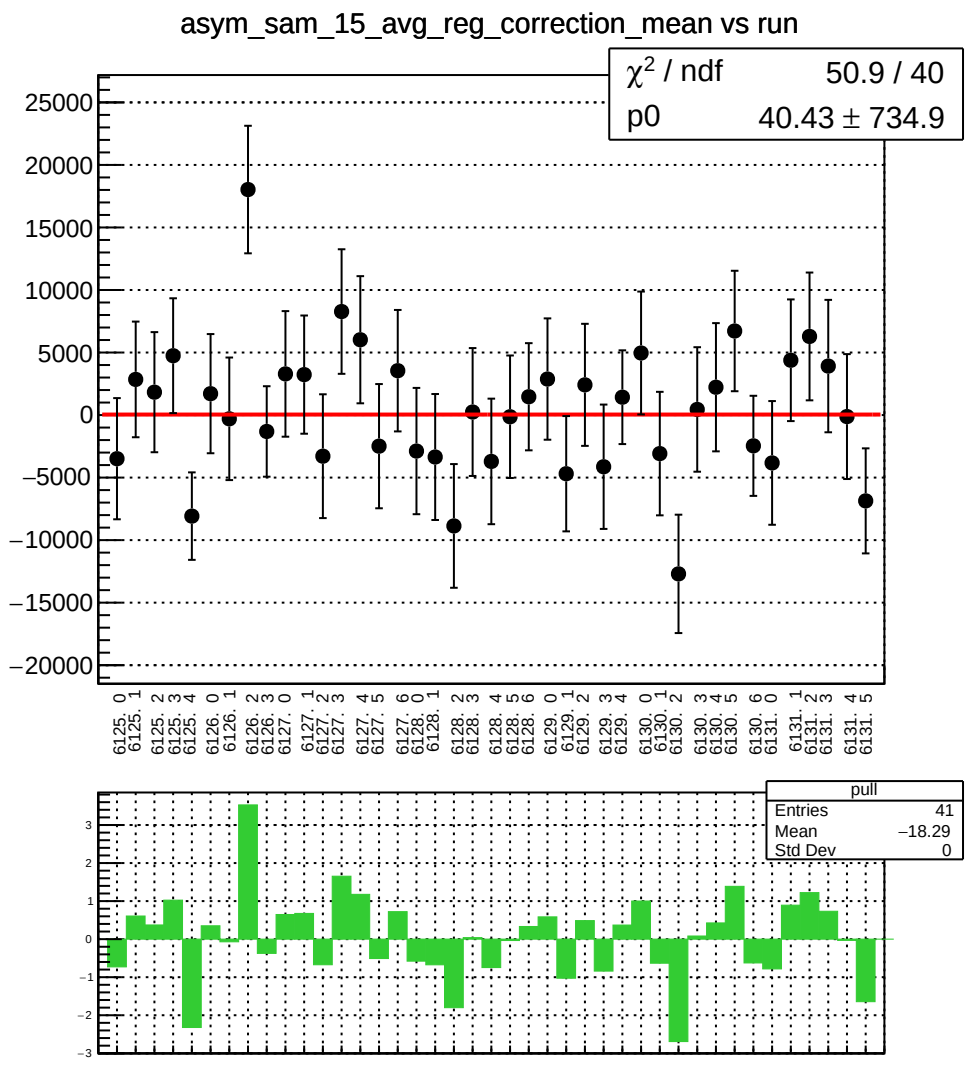

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 39.41 / 40
p0 8.599e−15 ± 3.183e−14
1.5
1
0.5
0
−0.5
−1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 4.307
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.1329
Std Dev 0.9713
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

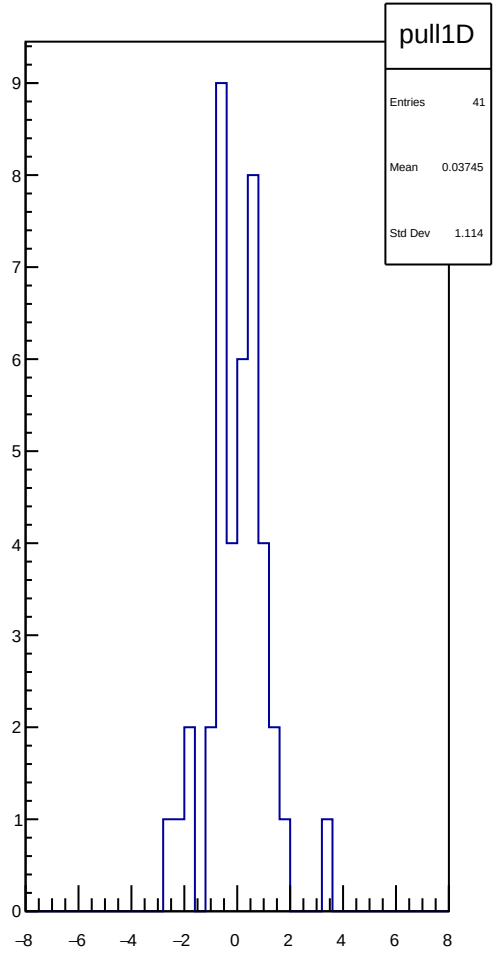

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.985e+05 / 40
p0 1.601e−11 ± 2.251e−14
80
70
60
50
40
30
20
10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

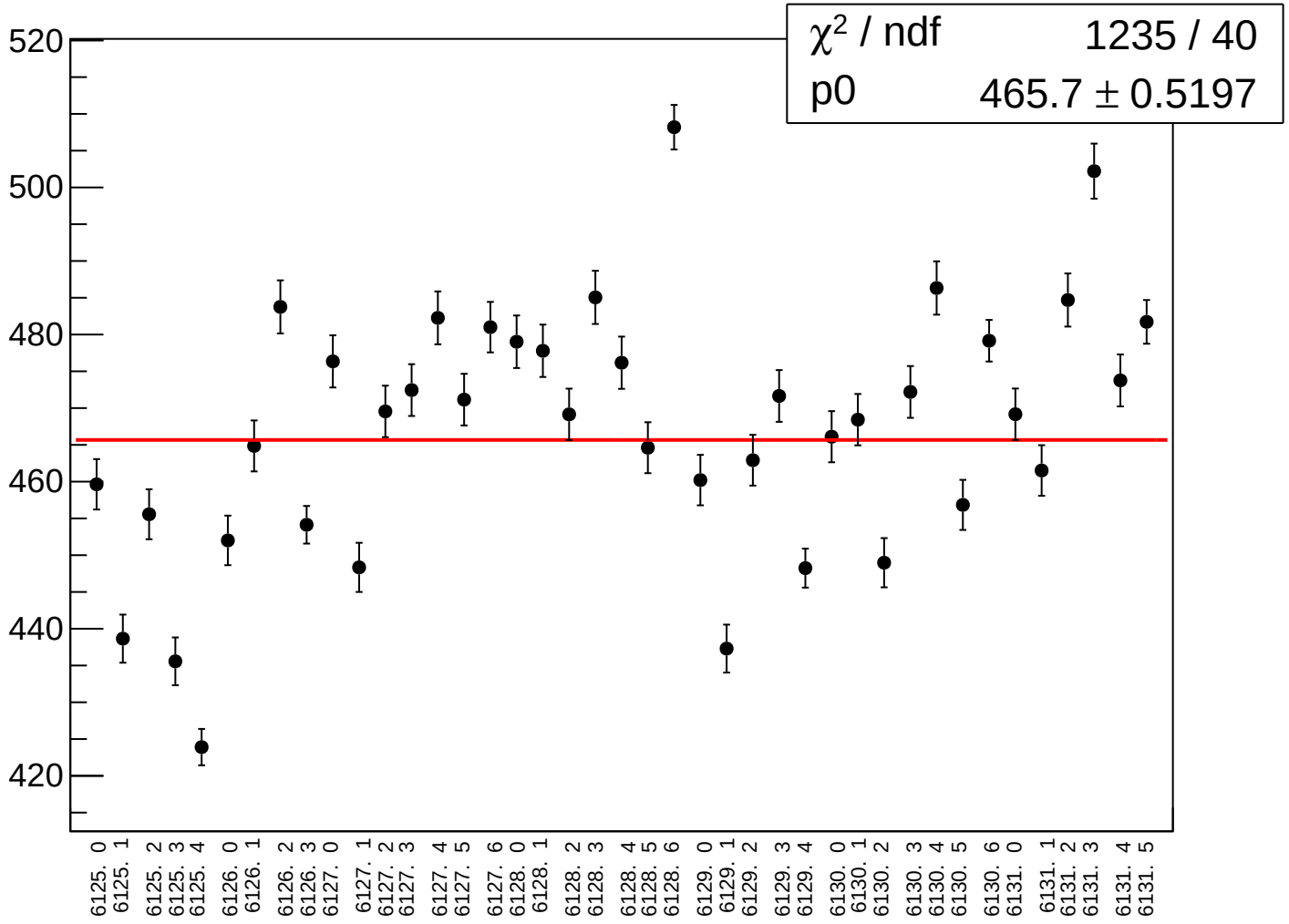

reg_asym_sam_15_avg_mean vs run
χ² / ndf 40.79 / 40
p0 12.28 ± 93.64
pull
Entries 41
Mean 43.18
Std Dev 12.58

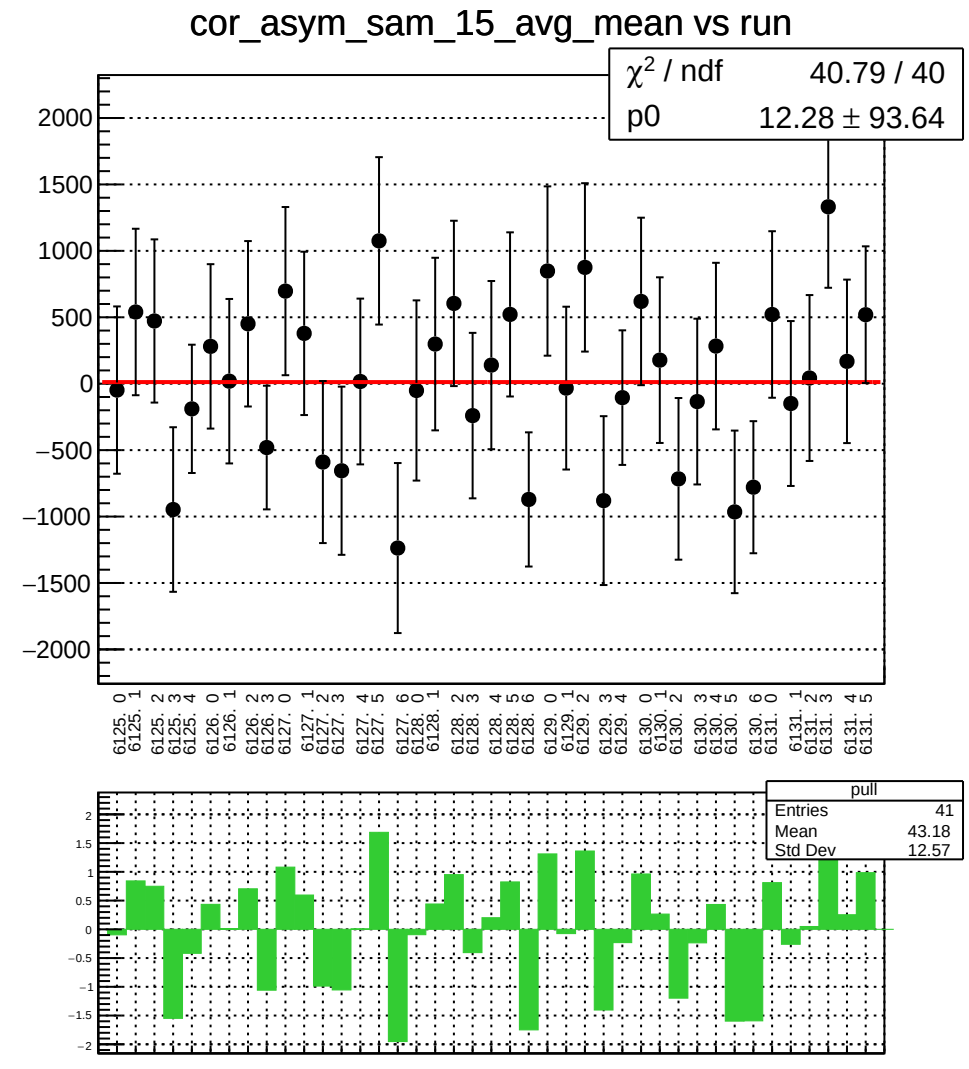

pull1D
Entries 41
Mean 0.02867
Std Dev 0.997

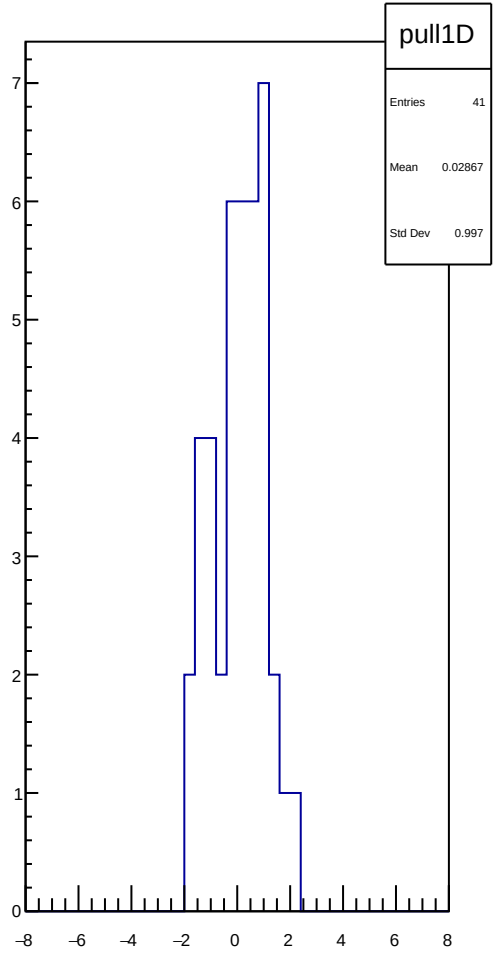

reg_asym_sam_15_avg_rms vs run
χ² / ndf 348.7 / 40
p0 59.37 ± 0.06621
65
64
63
62
61
60
59
58
57
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

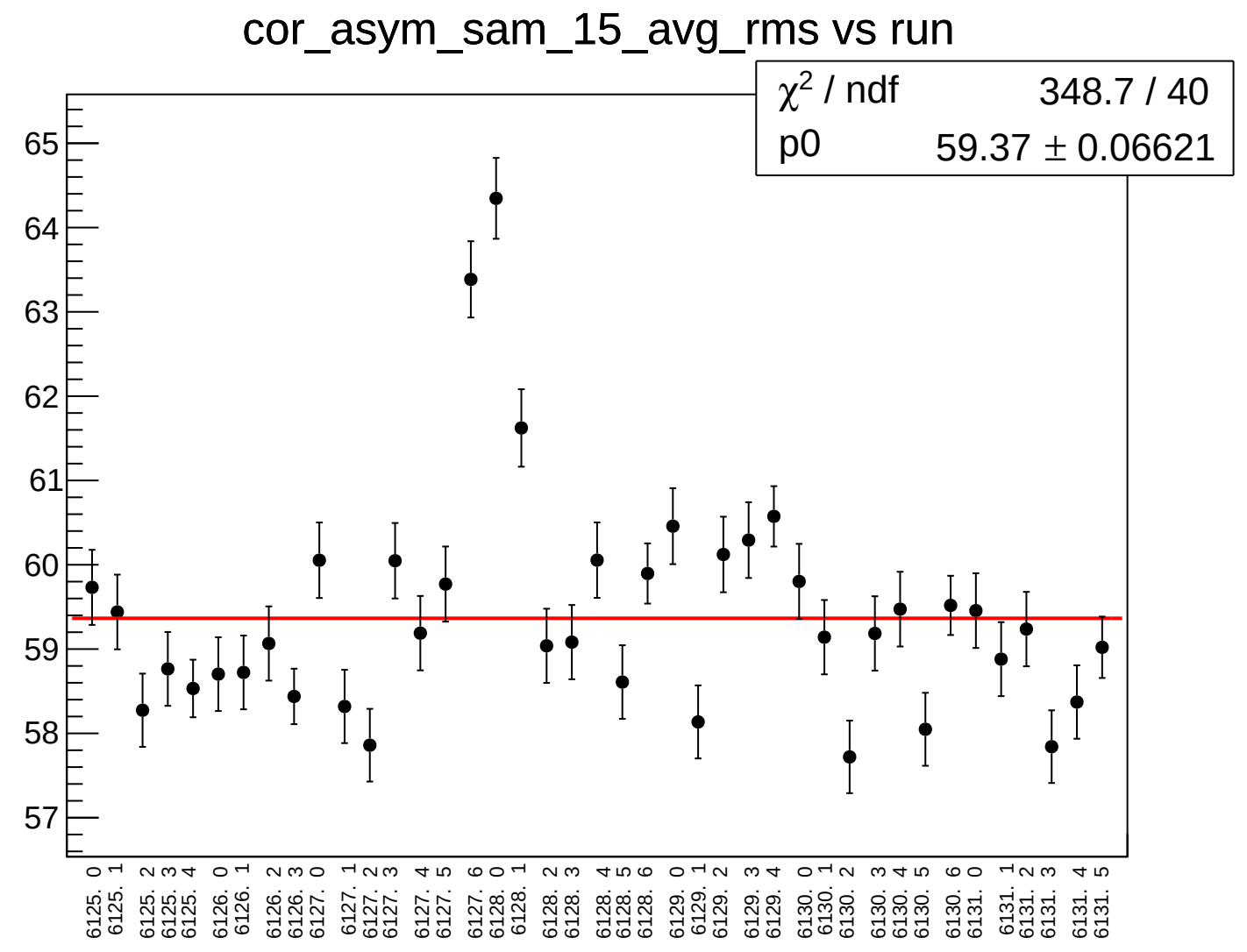

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 50.9 / 40
p0 40.43 ± 734.9
pull
Entries 41
Mean −18.29
Std Dev 0

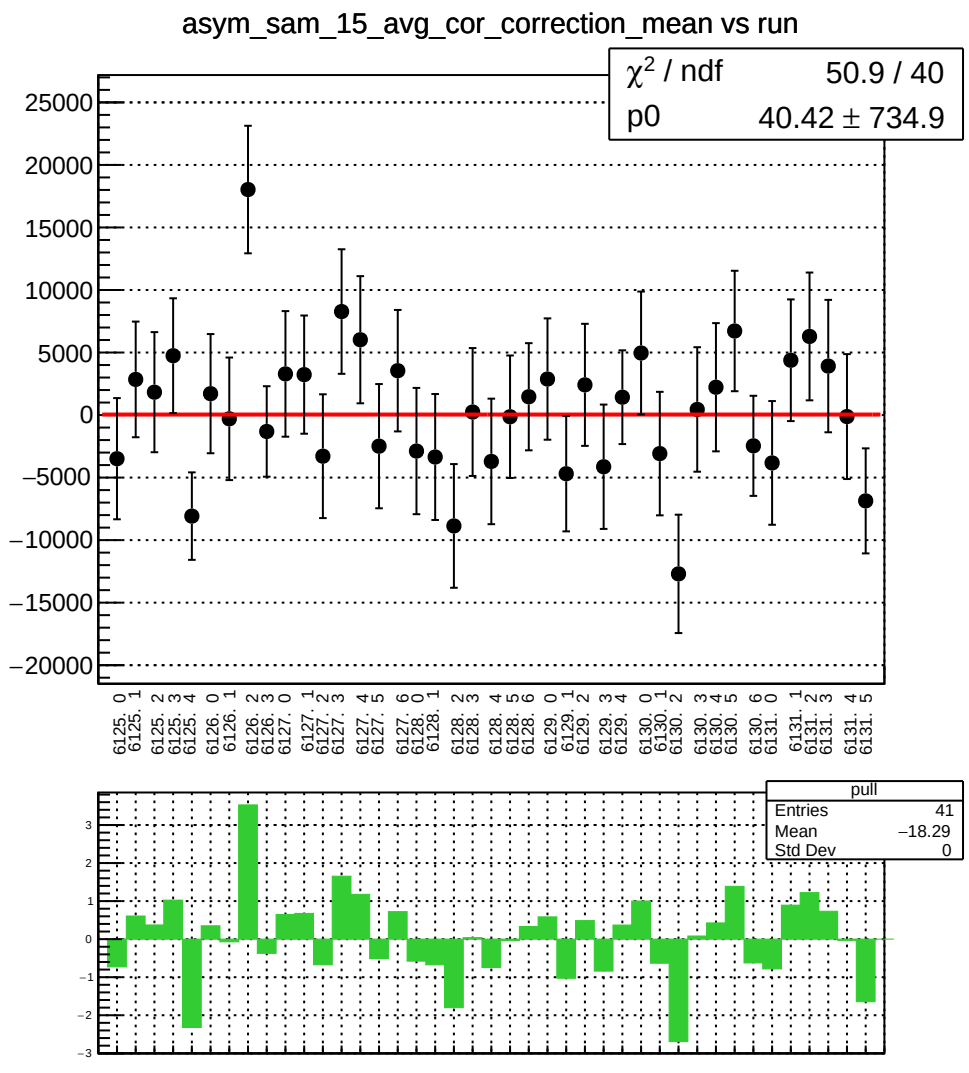

pull1D
Entries 41
Mean 0.03745
Std Dev 1.114

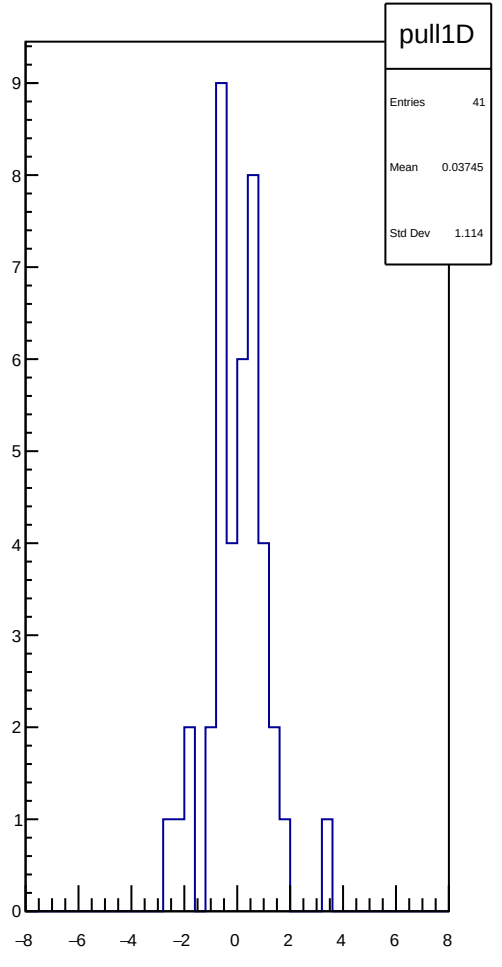

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 1235 / 40
p0 465.7 ± 0.5197
520
500
480
460
440
420
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

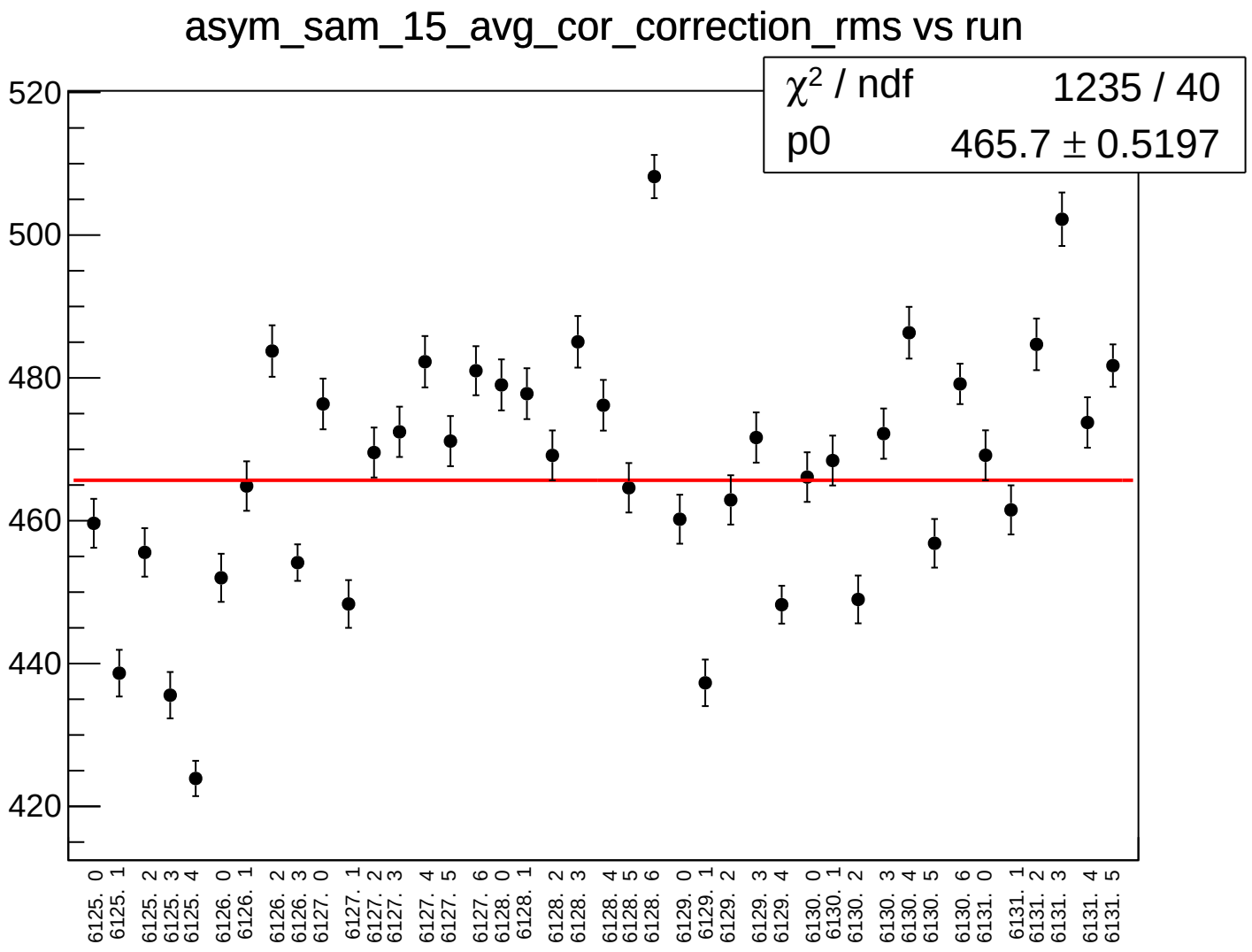

cor_asym_sam_15_avg_mean vs run
χ² / ndf 40.79 / 40
p0 12.28 ± 93.64
pull
Entries 41
Mean 43.18
Std Dev 12.57

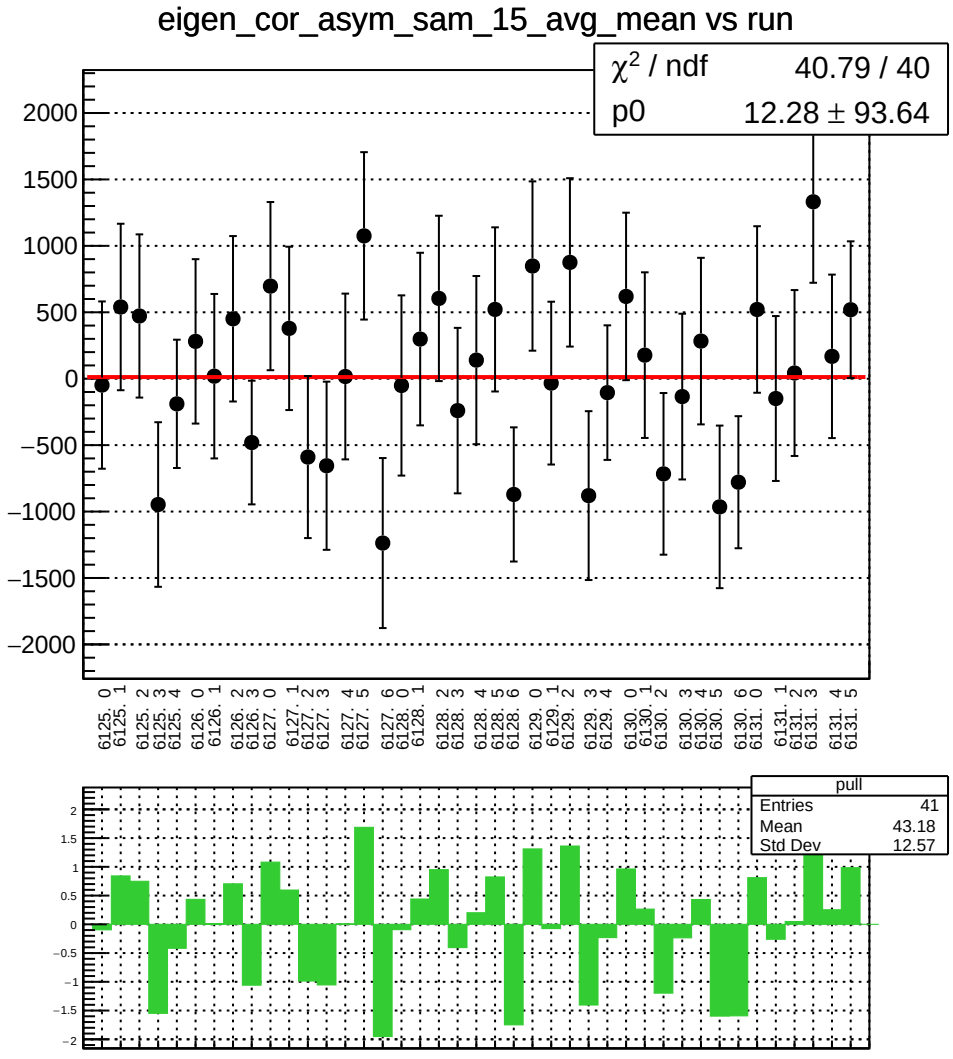

pull1D
Entries 41
Mean 0.02867
Std Dev 0.997

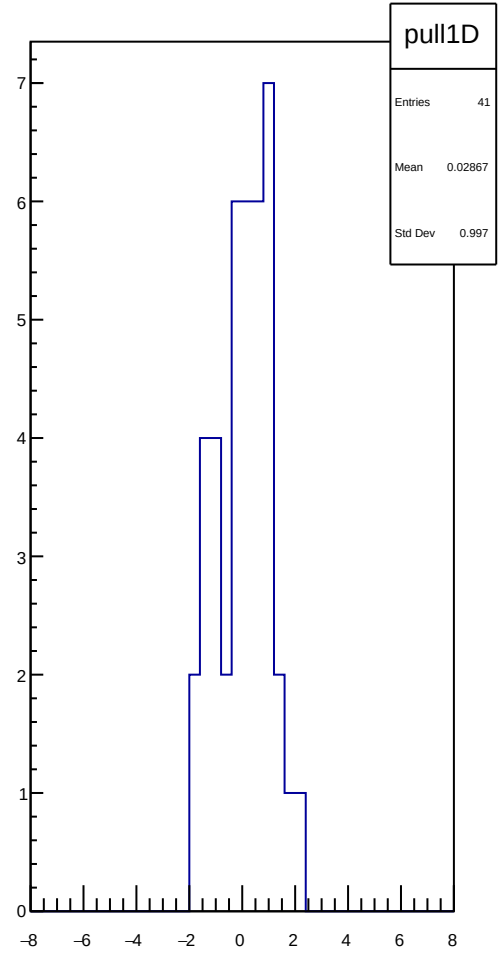

cor_asym_sam_15_avg_rms vs run
χ² / ndf 348.7 / 40
p0 59.37 ± 0.06621
65
64
63
62
61
60
59
58
57
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

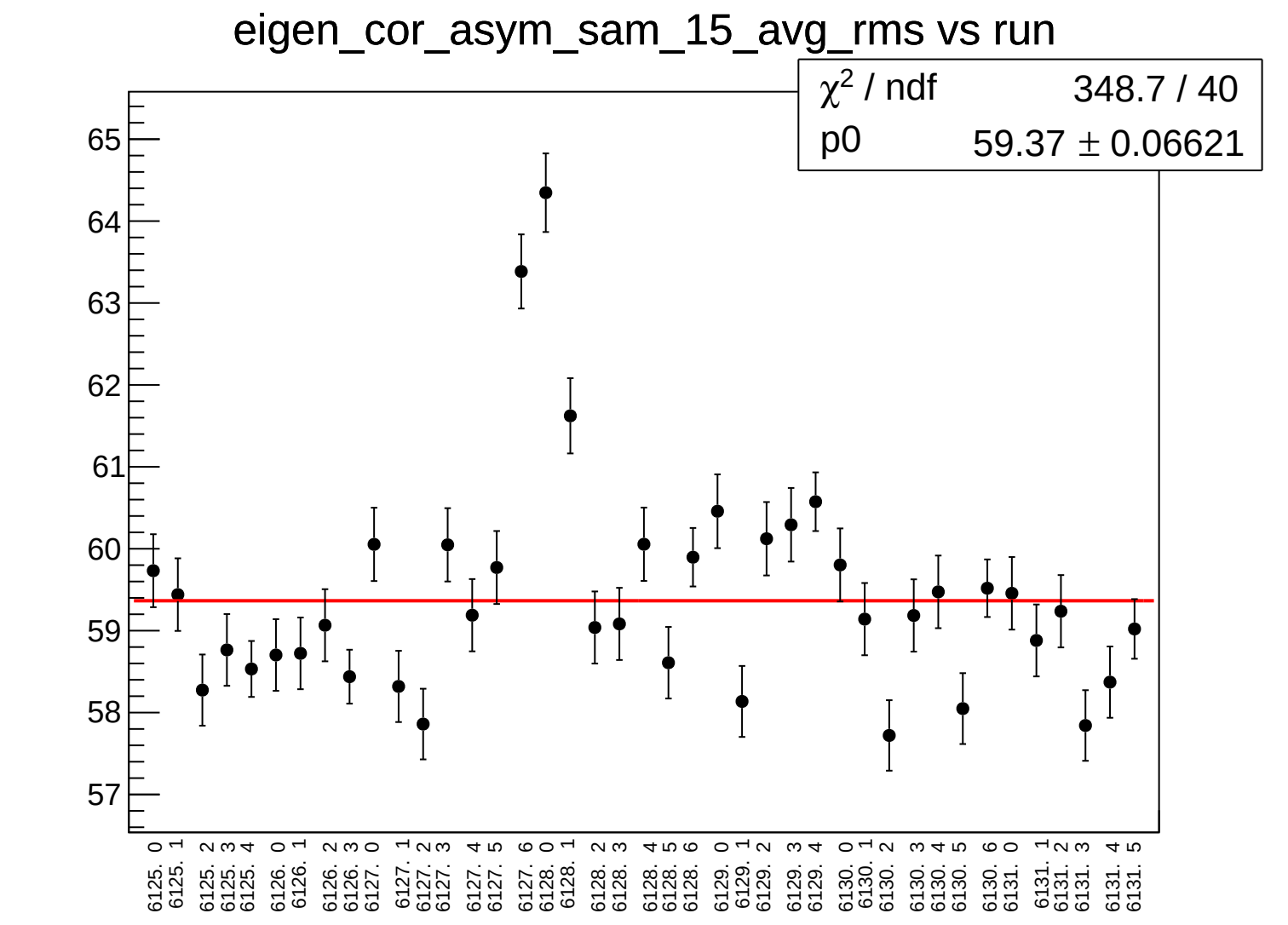

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 50.9 / 40
p0 40.42 ± 734.9
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −18.29
Std Dev 0
3
2
1
0
−1
−2
−3

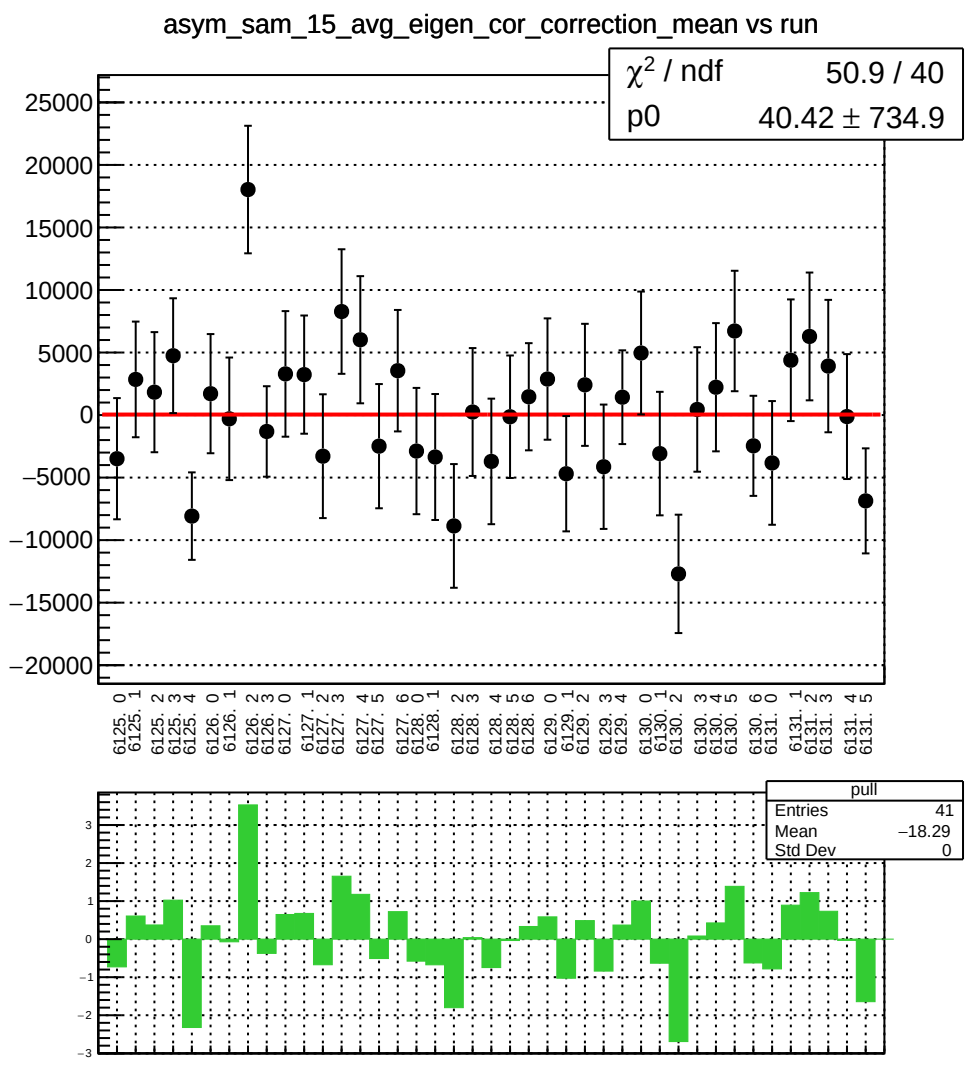

pull1D
Entries 41
Mean 0.03745
Std Dev 1.114
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

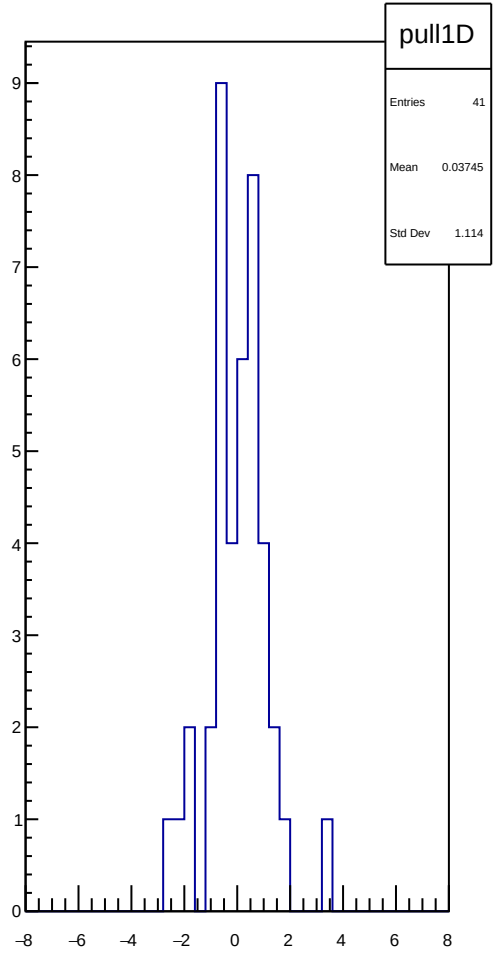

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 1235 / 40
p0 465.7 ± 0.5197
520
500
480
460
440
420
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

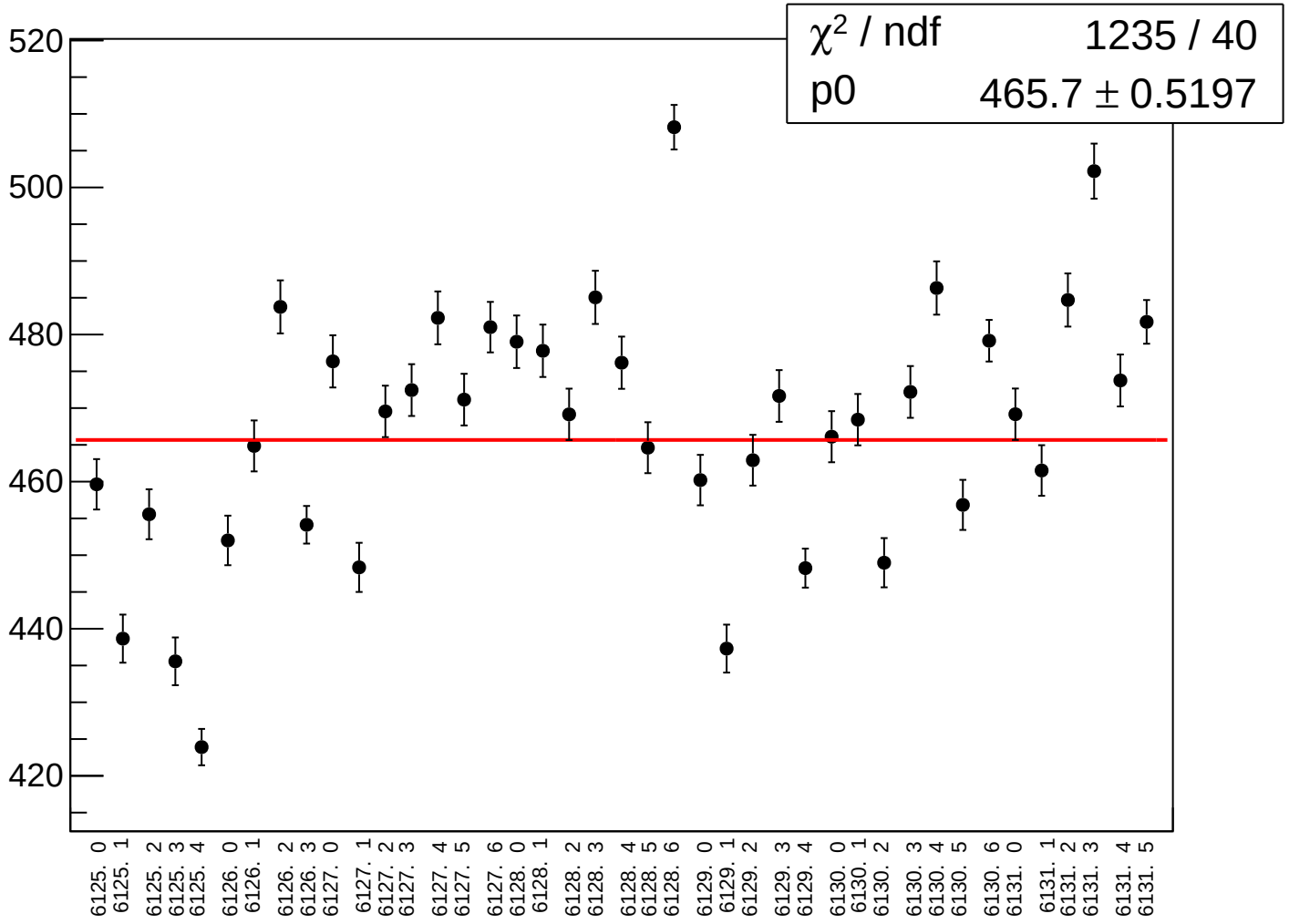

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 40.79 / 40
p0 12.28 ± 93.64
pull
Entries 41
Mean 43.18
Std Dev 12.57

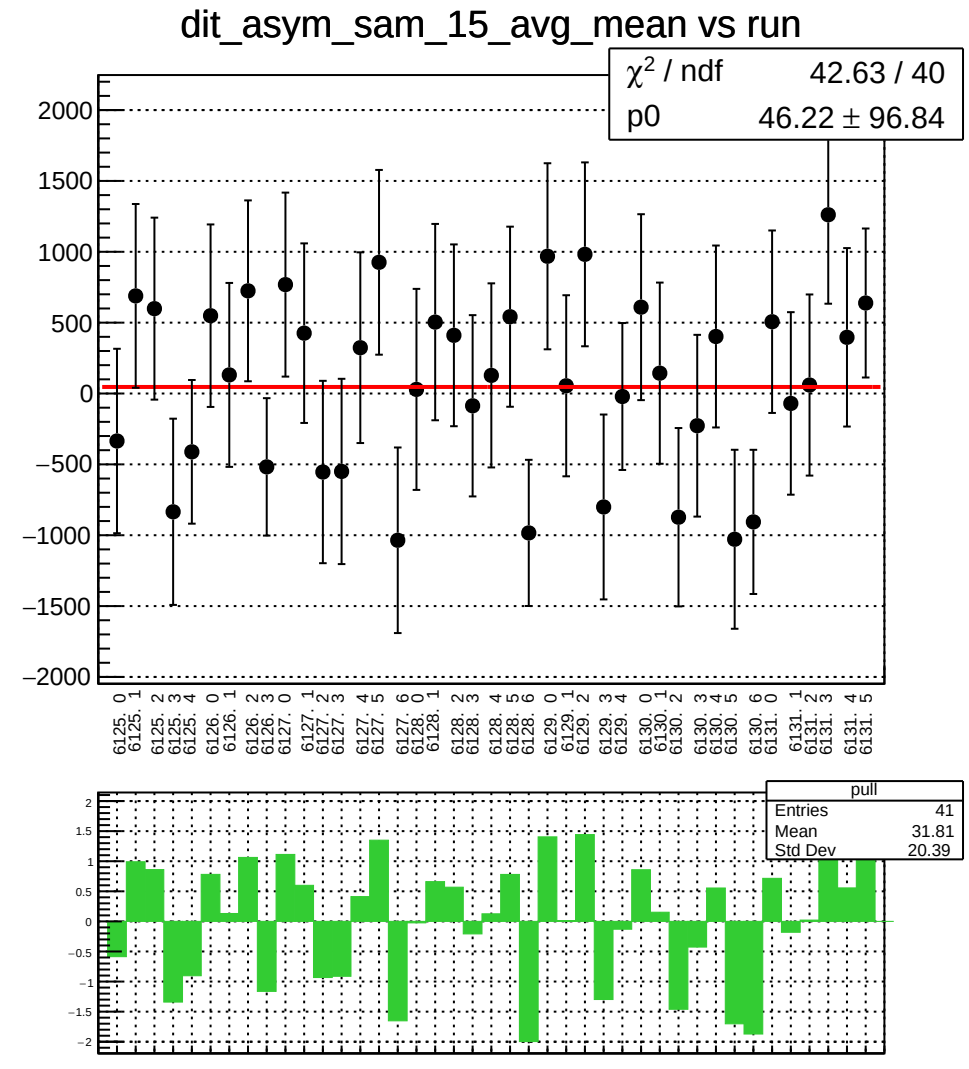

pull1D
Entries 41
Mean 0.02867
Std Dev 0.997

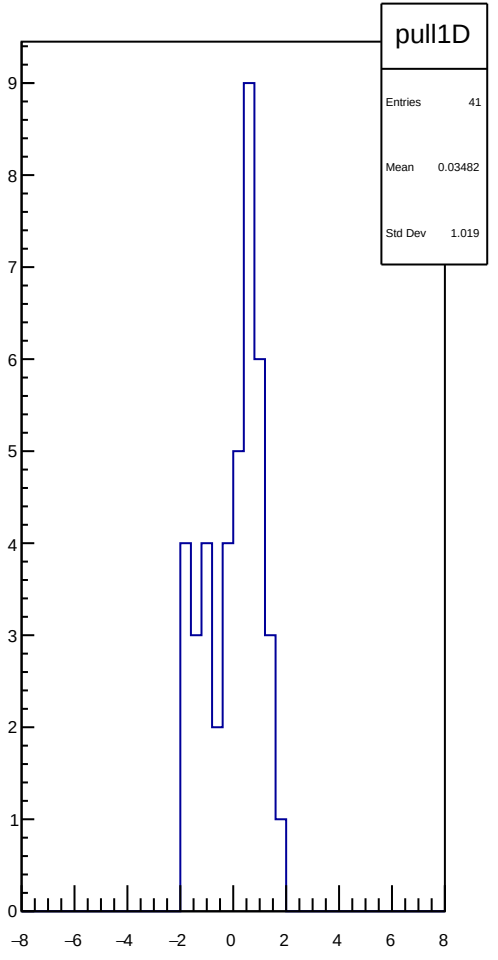

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 348.7 / 40
p0 59.37 ± 0.06621
65
64
63
62
61
60
59
58
57
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

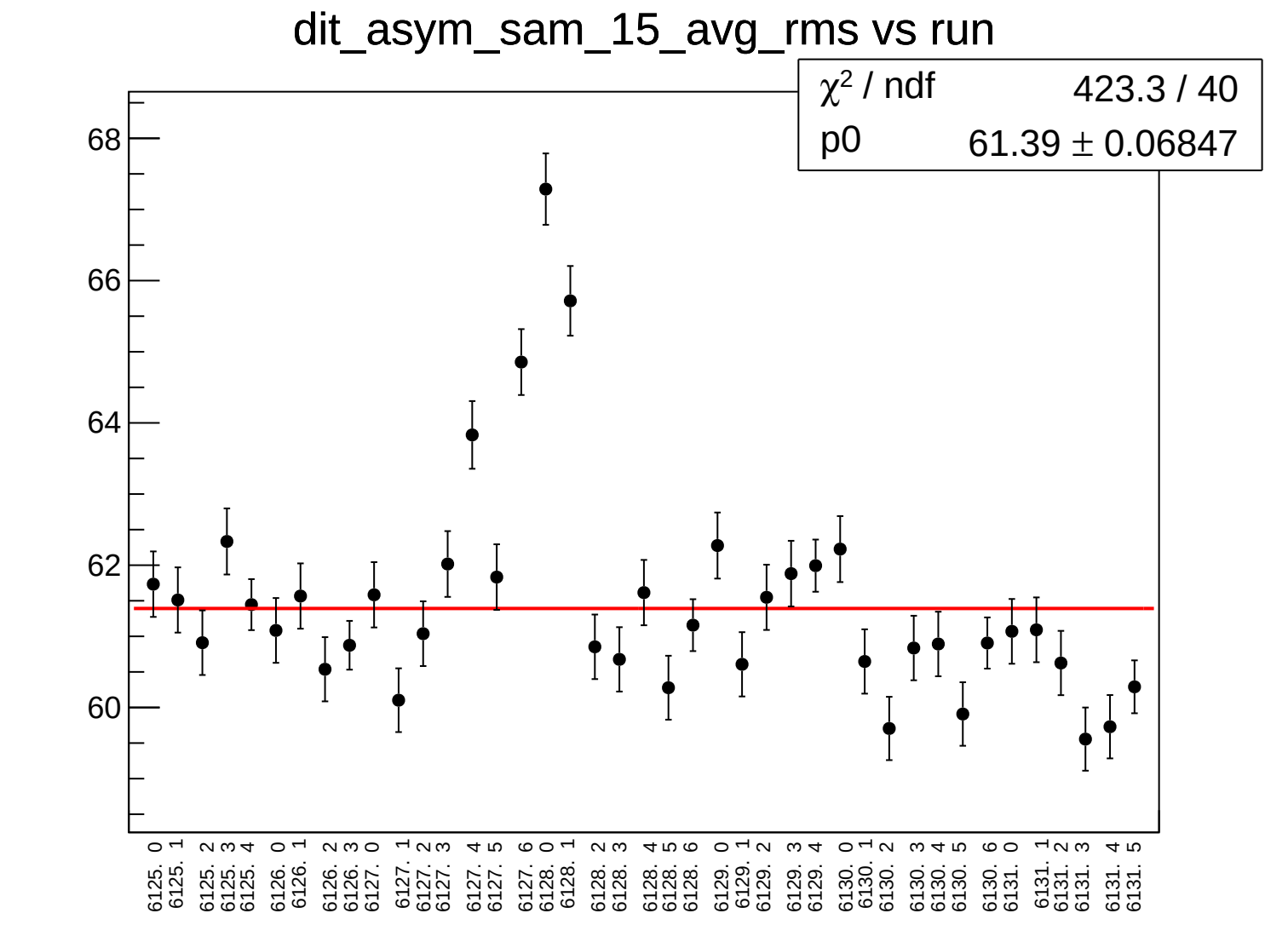

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 50.9 / 40
p0 40.42 ± 734.9
pull
Entries 41
Mean −18.29
Std Dev 0

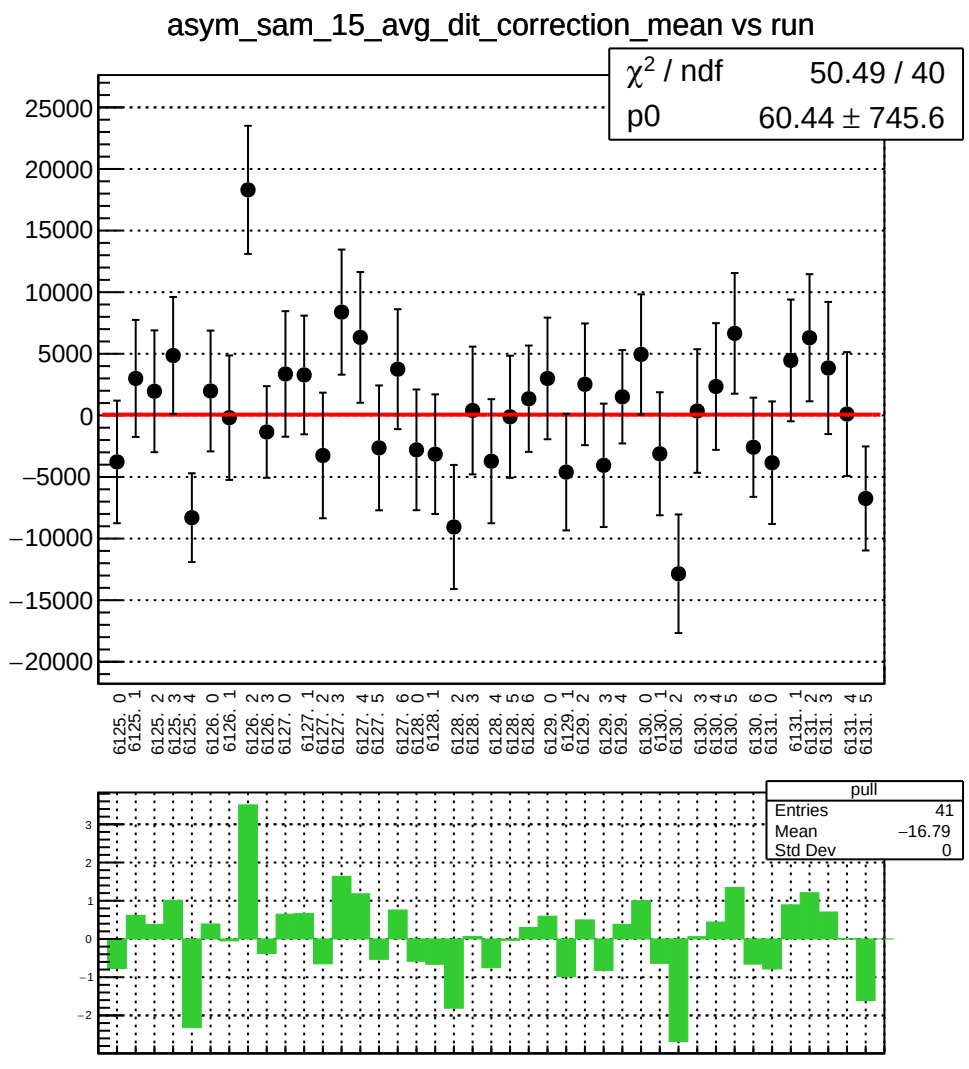

pull1D
Entries 41
Mean 0.03745
Std Dev 1.114

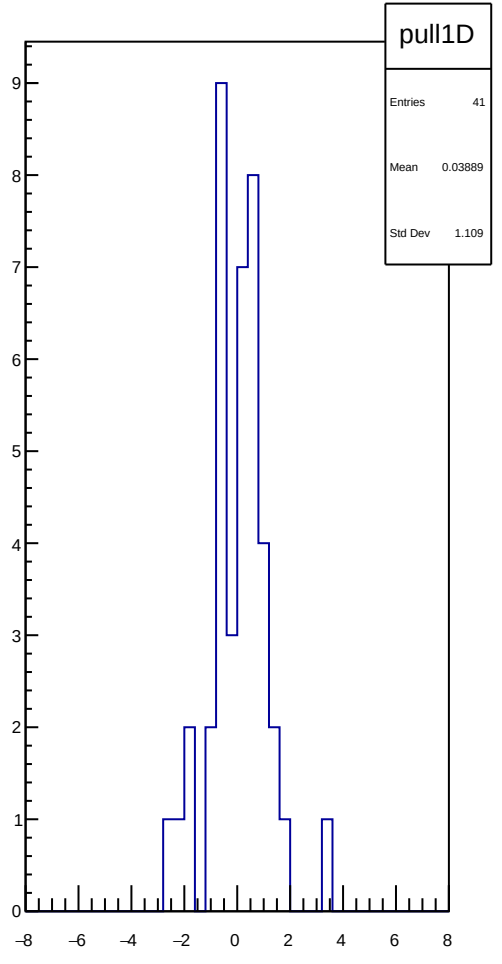

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 1235 / 40
p0 465.7 ± 0.5197
520
500
480
460
440
420
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

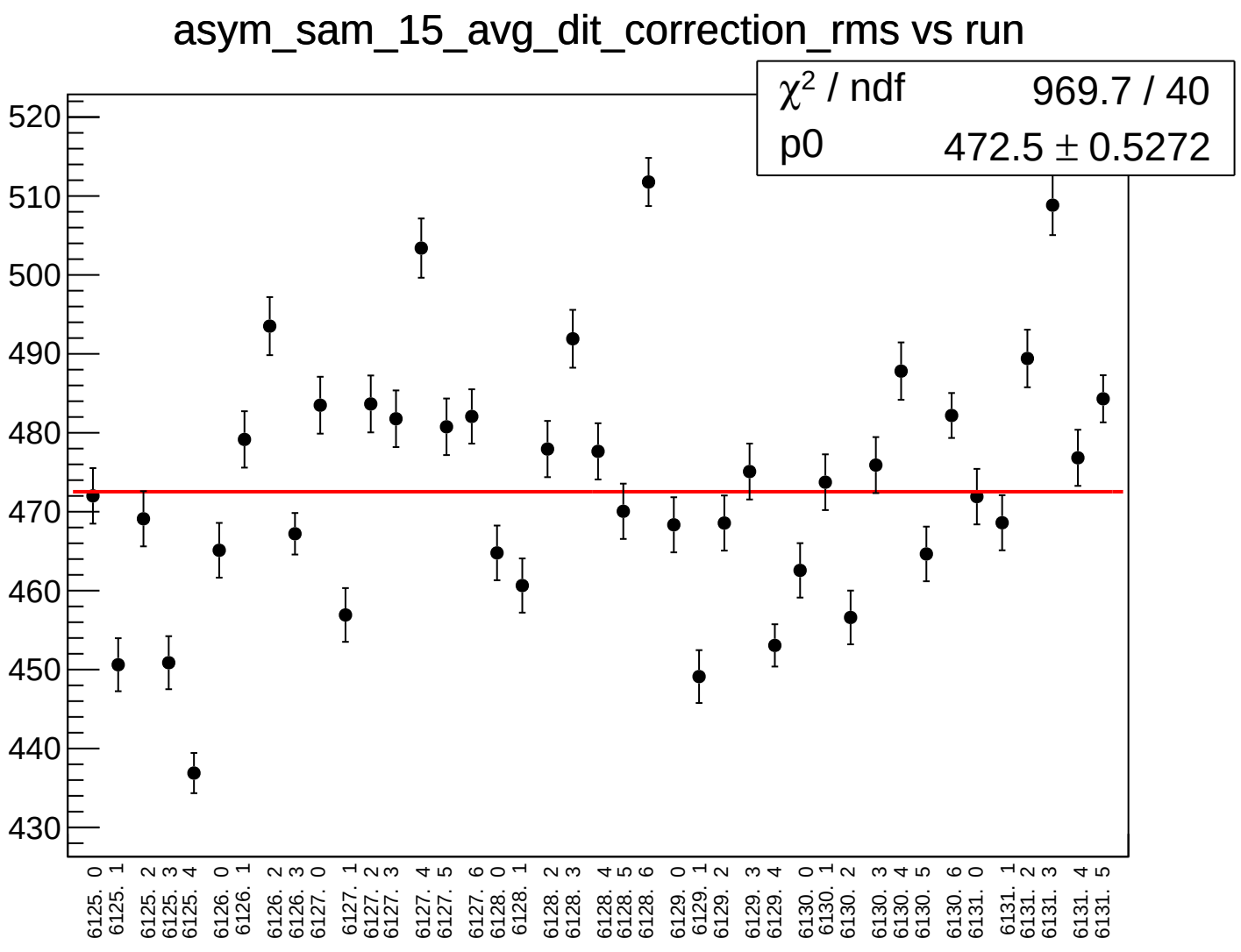

dit_asym_sam_15_avg_mean vs run
χ² / ndf 42.63 / 40
p0 46.22 ± 96.84
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 31.81
Std Dev 20.39
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

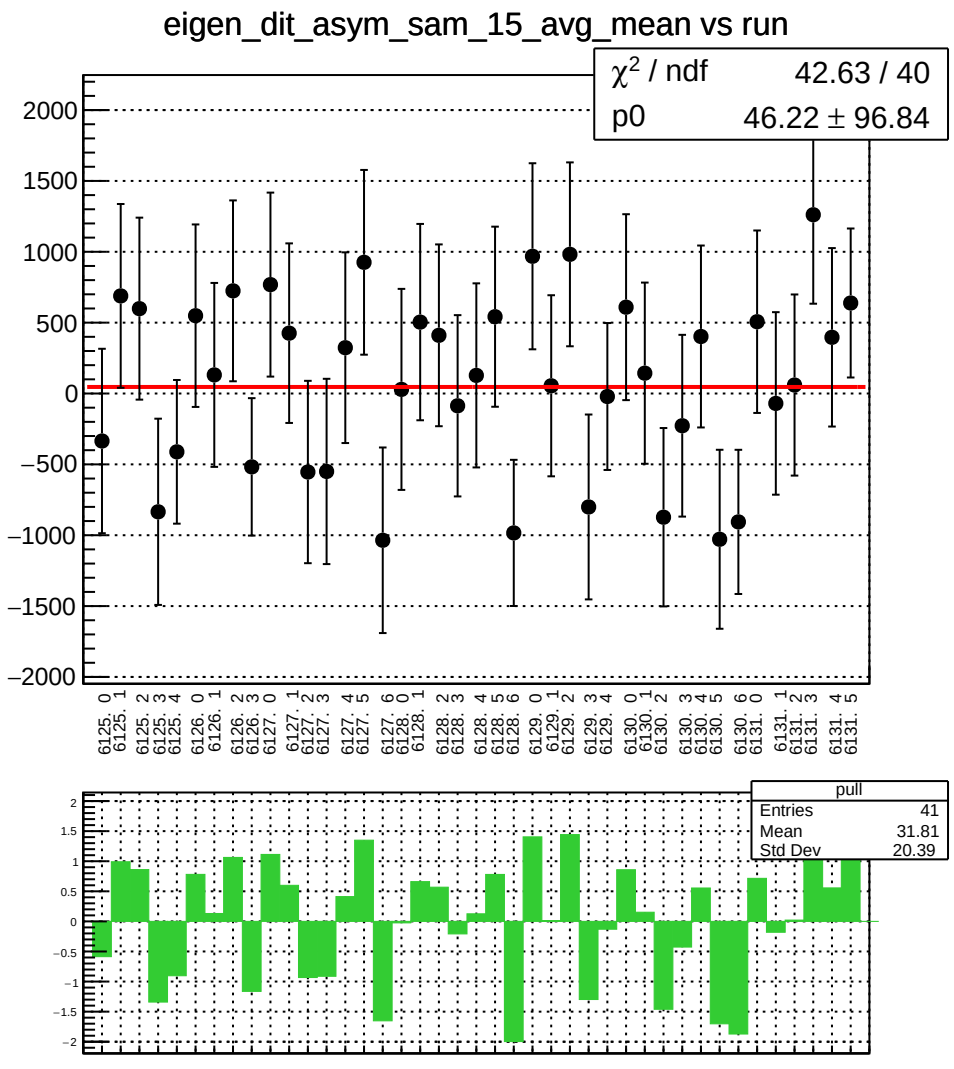

pull1D
Entries 41
Mean 0.03482
Std Dev 1.019
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

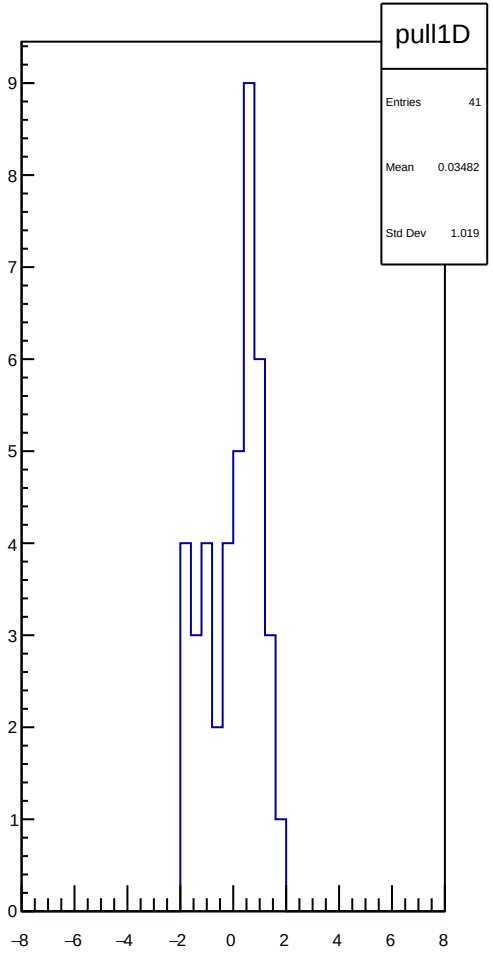

dit_asym_sam_15_avg_rms vs run
χ² / ndf 423.3 / 40
p0 61.39 ± 0.06847
68
66
64
62
60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

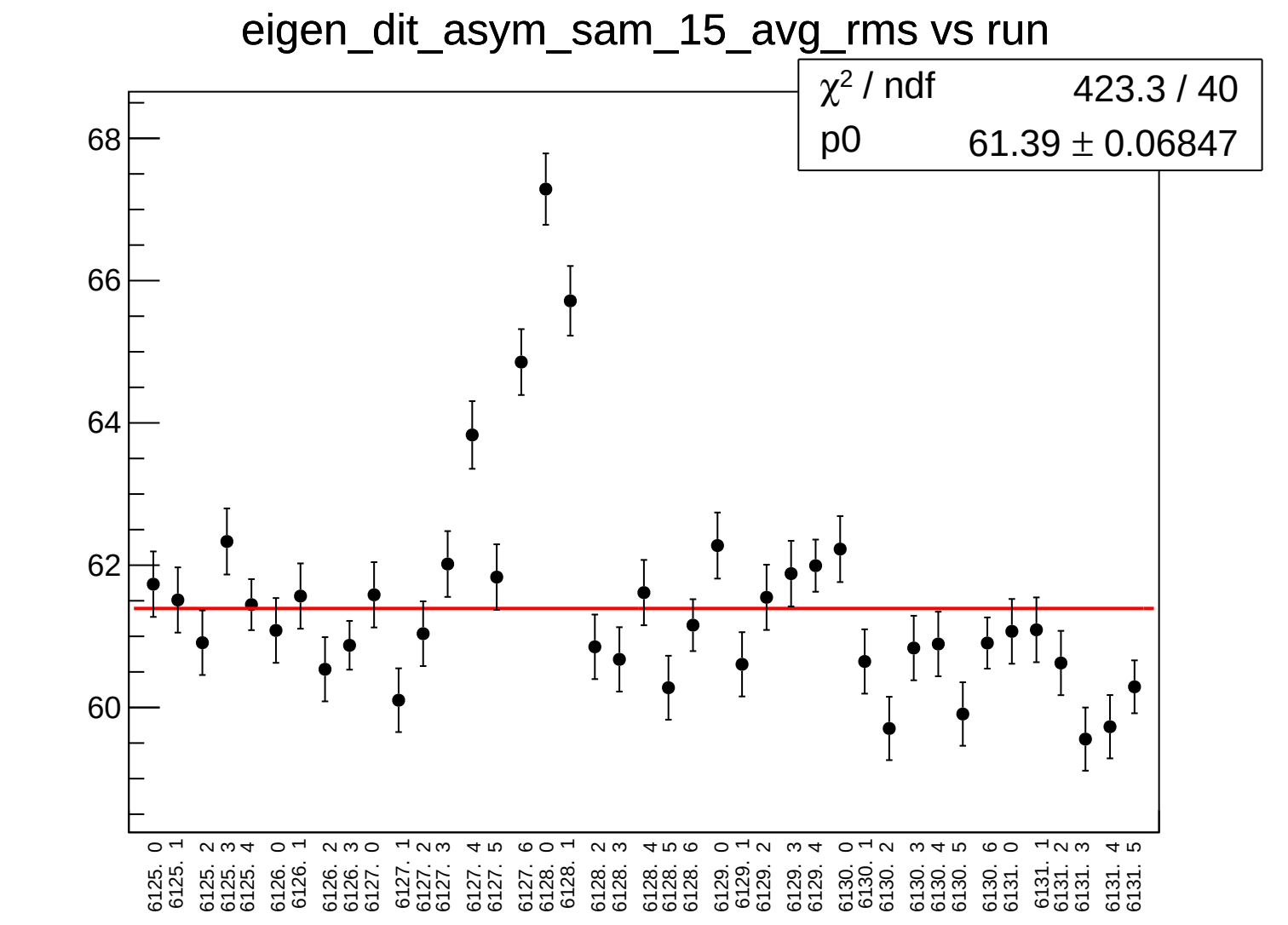

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 50.49 / 40
p0 60.44 ± 745.6
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −16.79
Std Dev 0
3
2
1
0
−1
−2

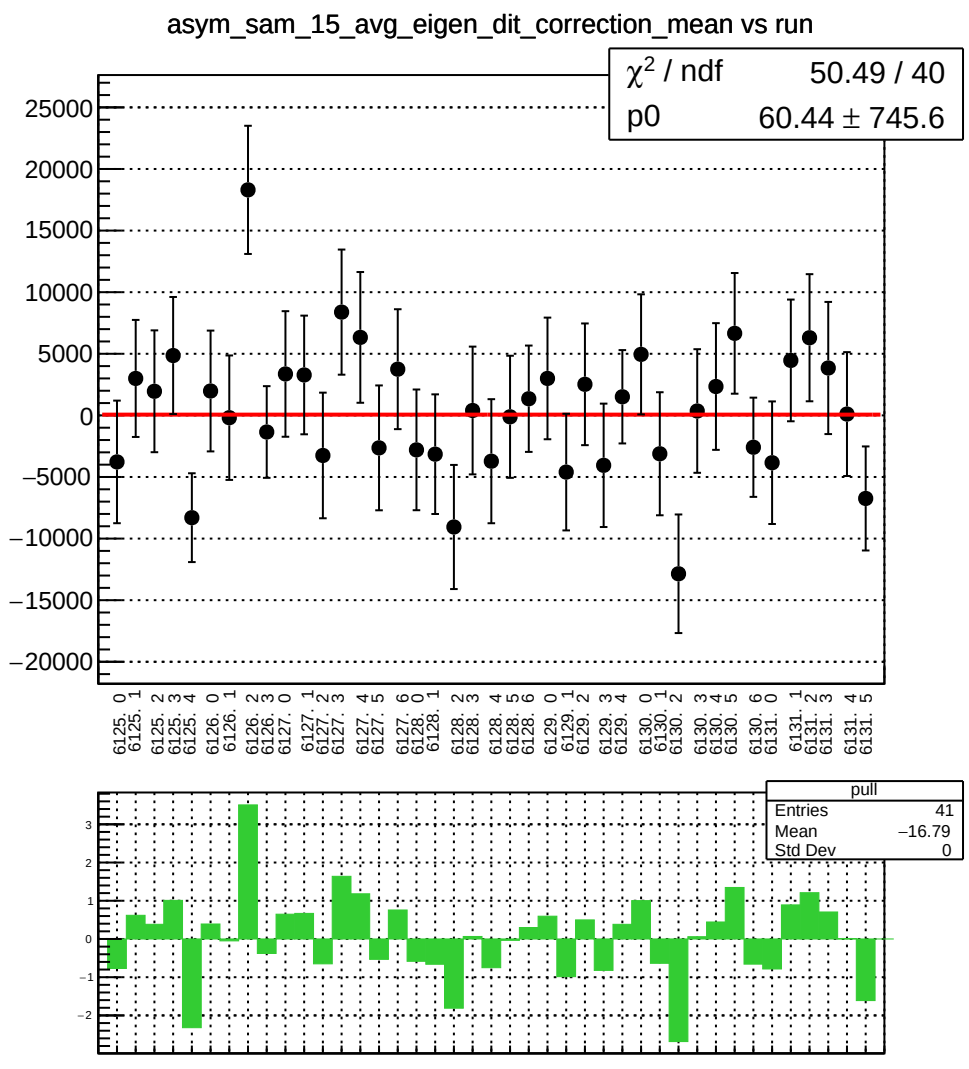

pull1D
Entries 41
Mean 0.03889
Std Dev 1.109
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

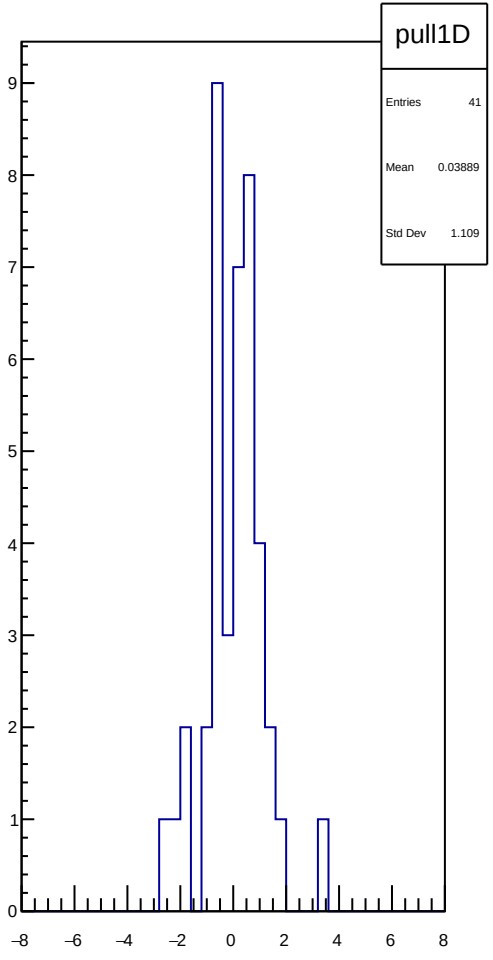

asym_sam_15_avg_dit_correction_rms vs run
χ^2 / ndf 969.7 / 40
p0 472.5 ± 0.5272
520
510
500
490
480
470
460
450
440
430
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

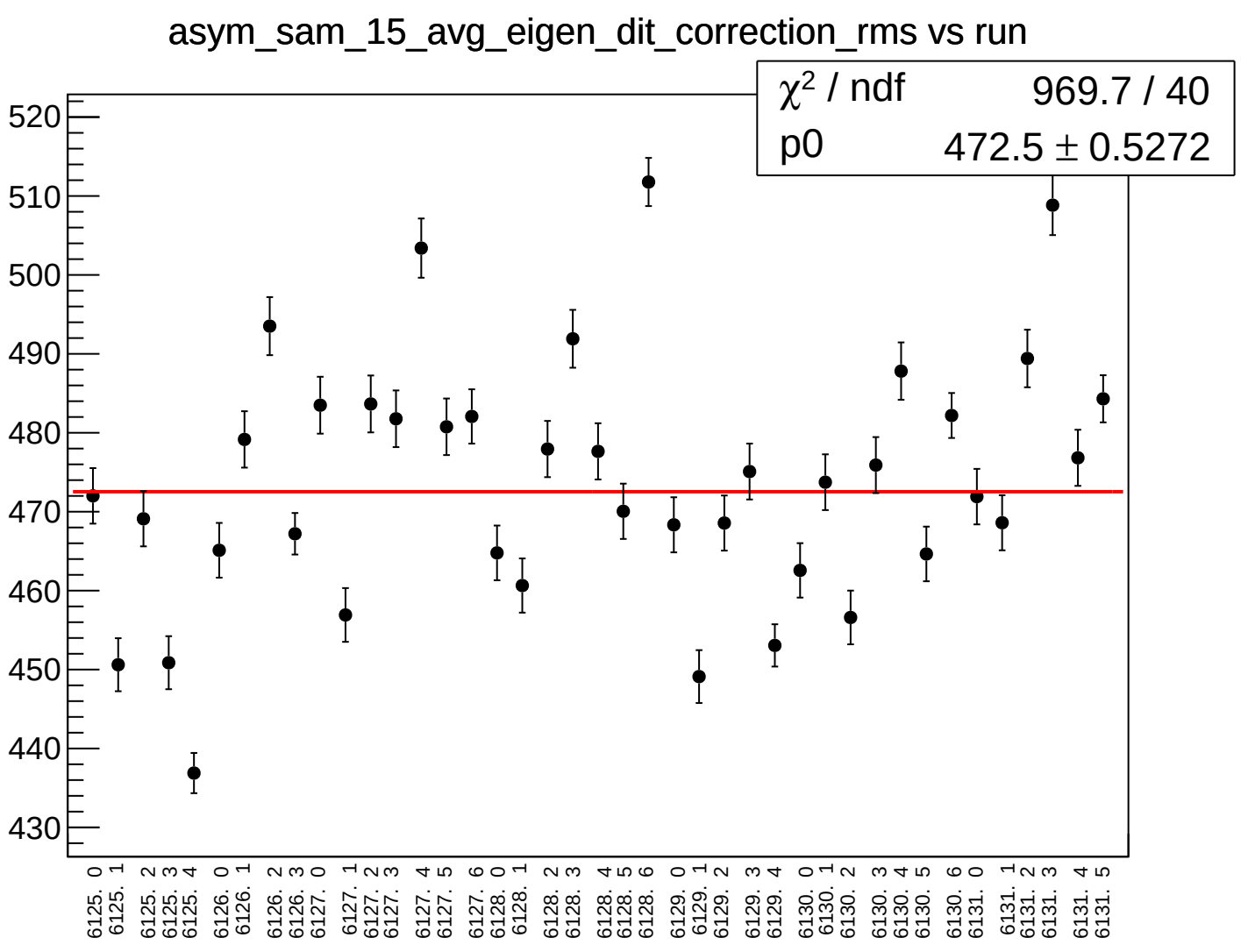

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 42.63 / 40
p0 46.22 ± 96.84
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 31.81
Std Dev 20.39
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

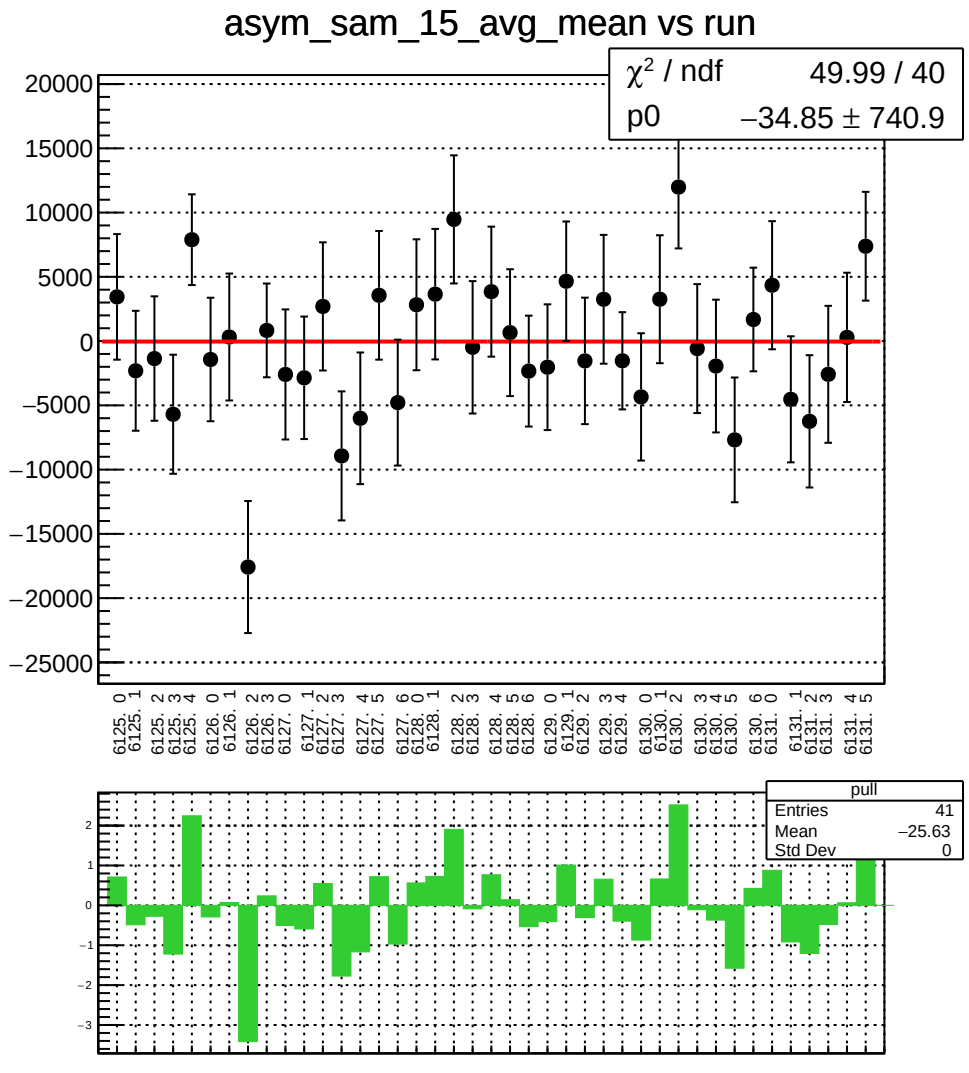

pull1D
Entries 41
Mean 0.03482
Std Dev 1.019
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

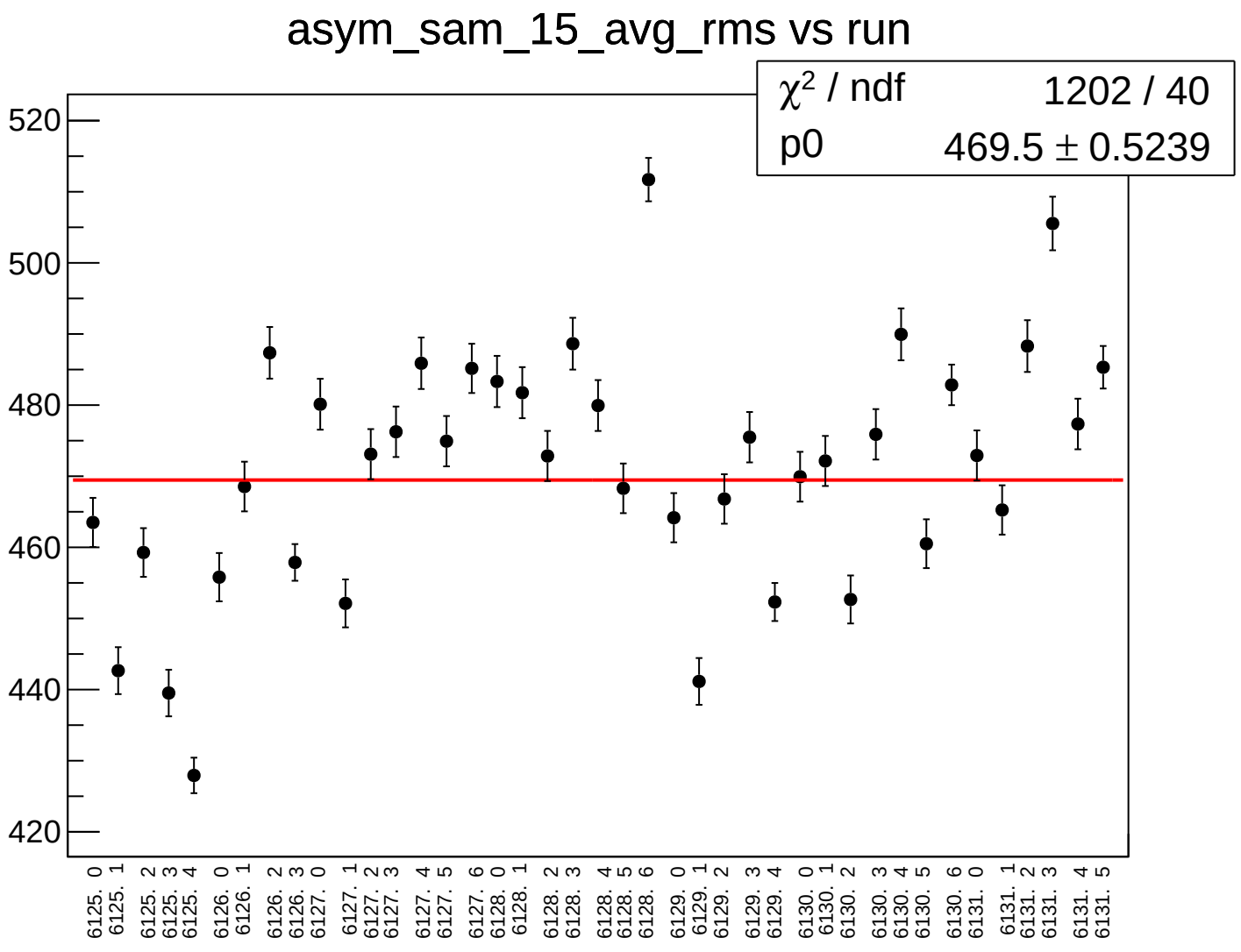

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 423.3 / 40
p0 61.39 ± 0.06847
68
66
64
62
60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

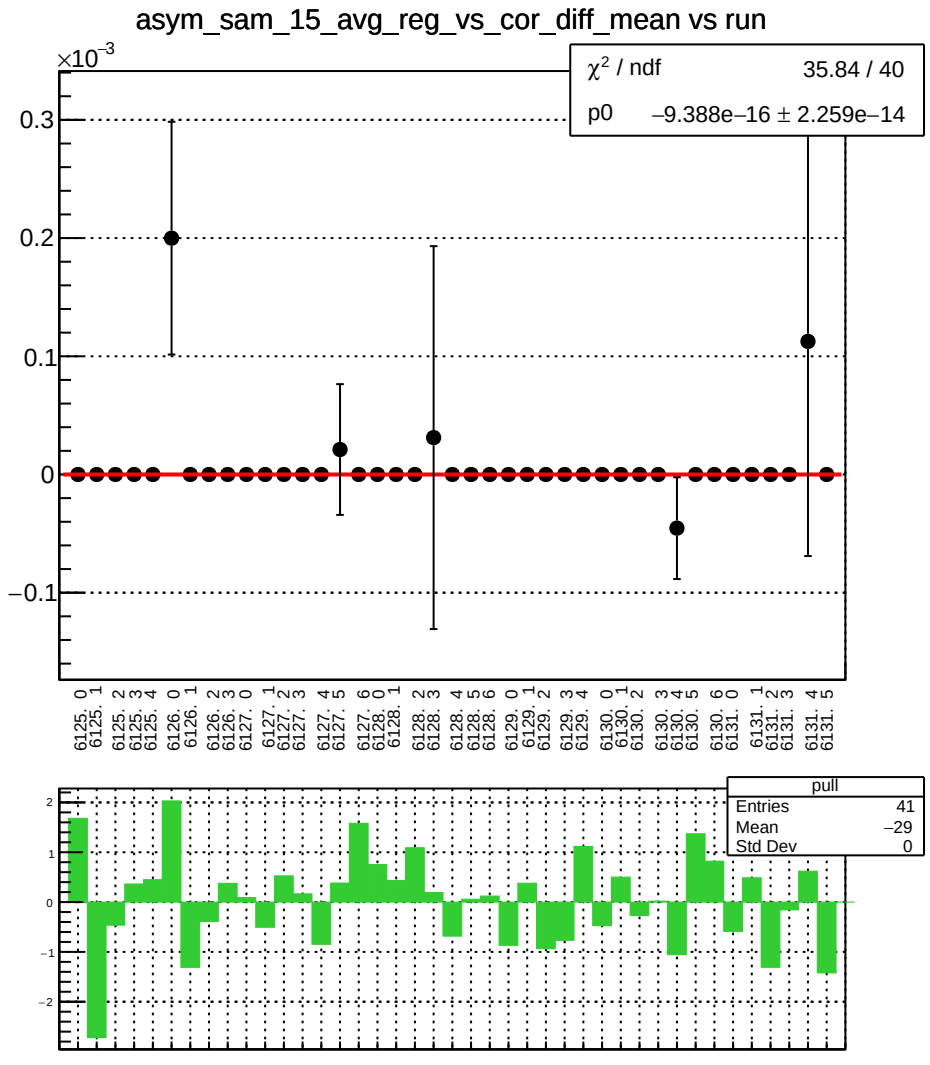

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 50.49 / 40
p0 60.44 ± 745.6
pull
Entries 41
Mean −16.79
Std Dev 0

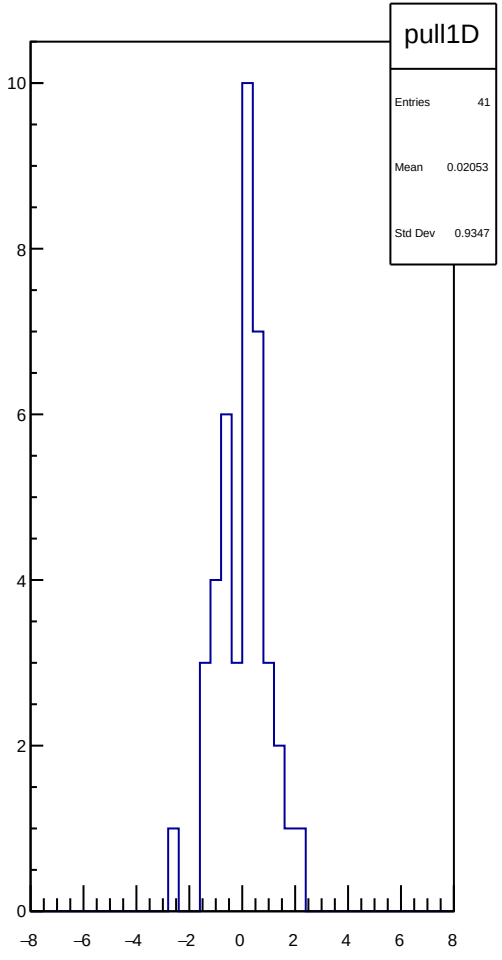

pull1D
Entries 41
Mean 0.03889
Std Dev 1.109

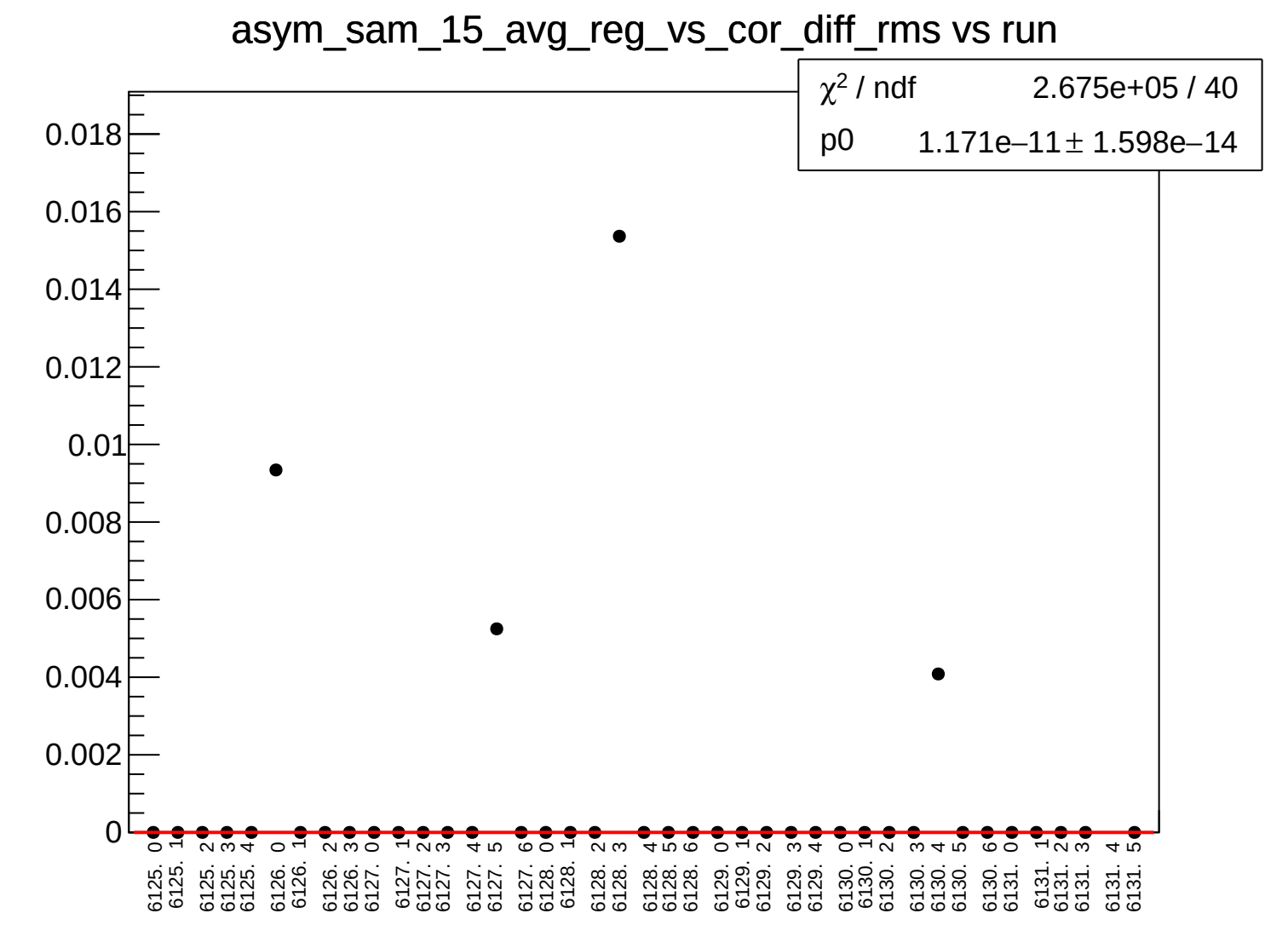

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 969.7 / 40
p0 472.5 ± 0.5272
520
510
500
490
480
470
460
450
440
430
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

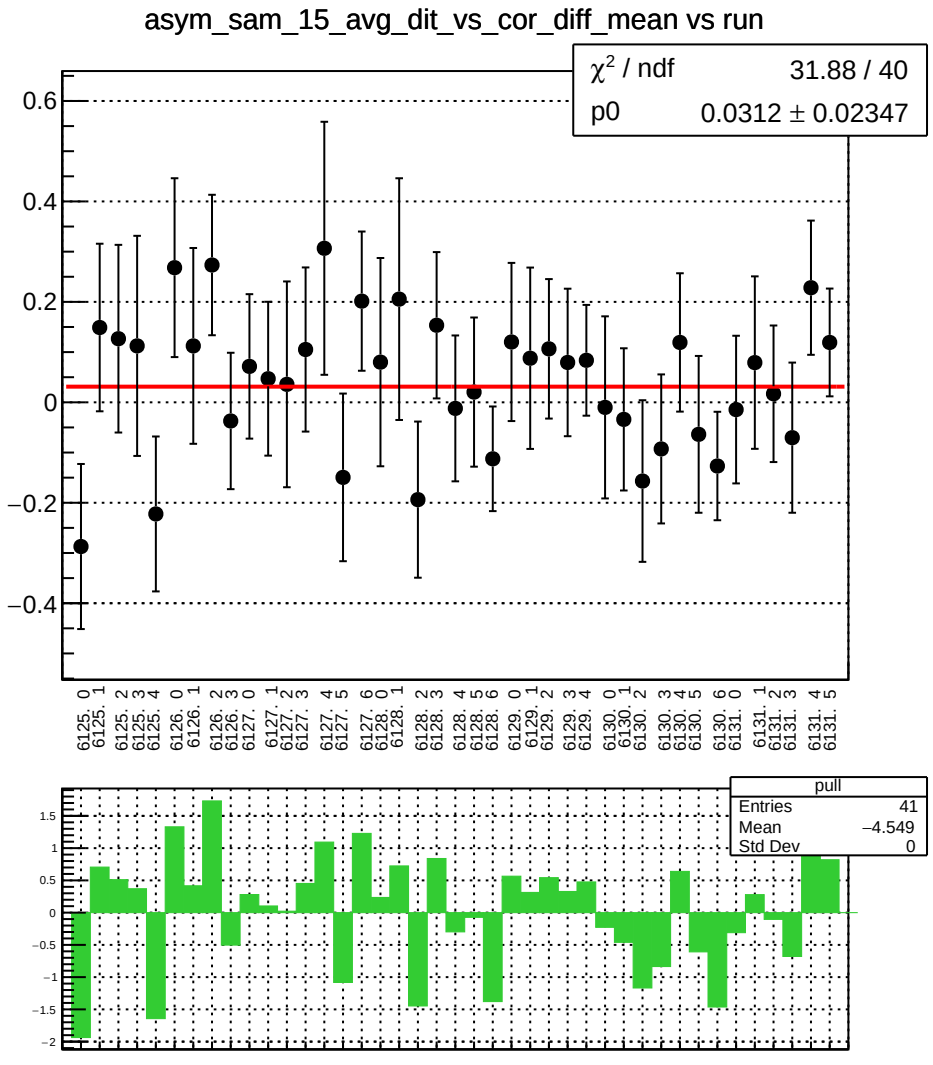

asym_sam_15_avg_mean vs run
χ² / ndf 49.99 / 40
p0 −34.85 ± 740.9
pull
Entries 41
Mean −25.63
Std Dev 0
pull1D
Entries 41
Mean −0.03288
Std Dev 1.104

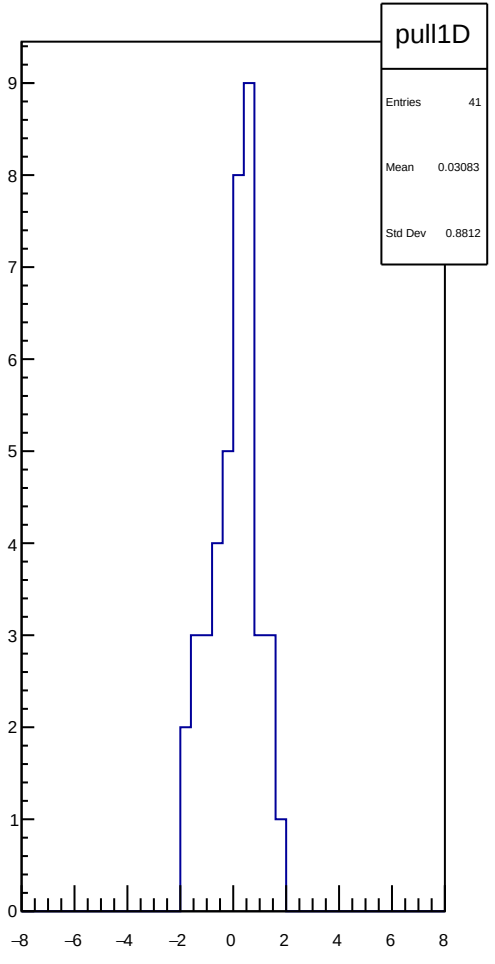

asym_sam_15_avg_rms vs run
χ^2 / ndf 1202 / 40
p0 469.5 ± 0.5239
520
500
480
460
440
420
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

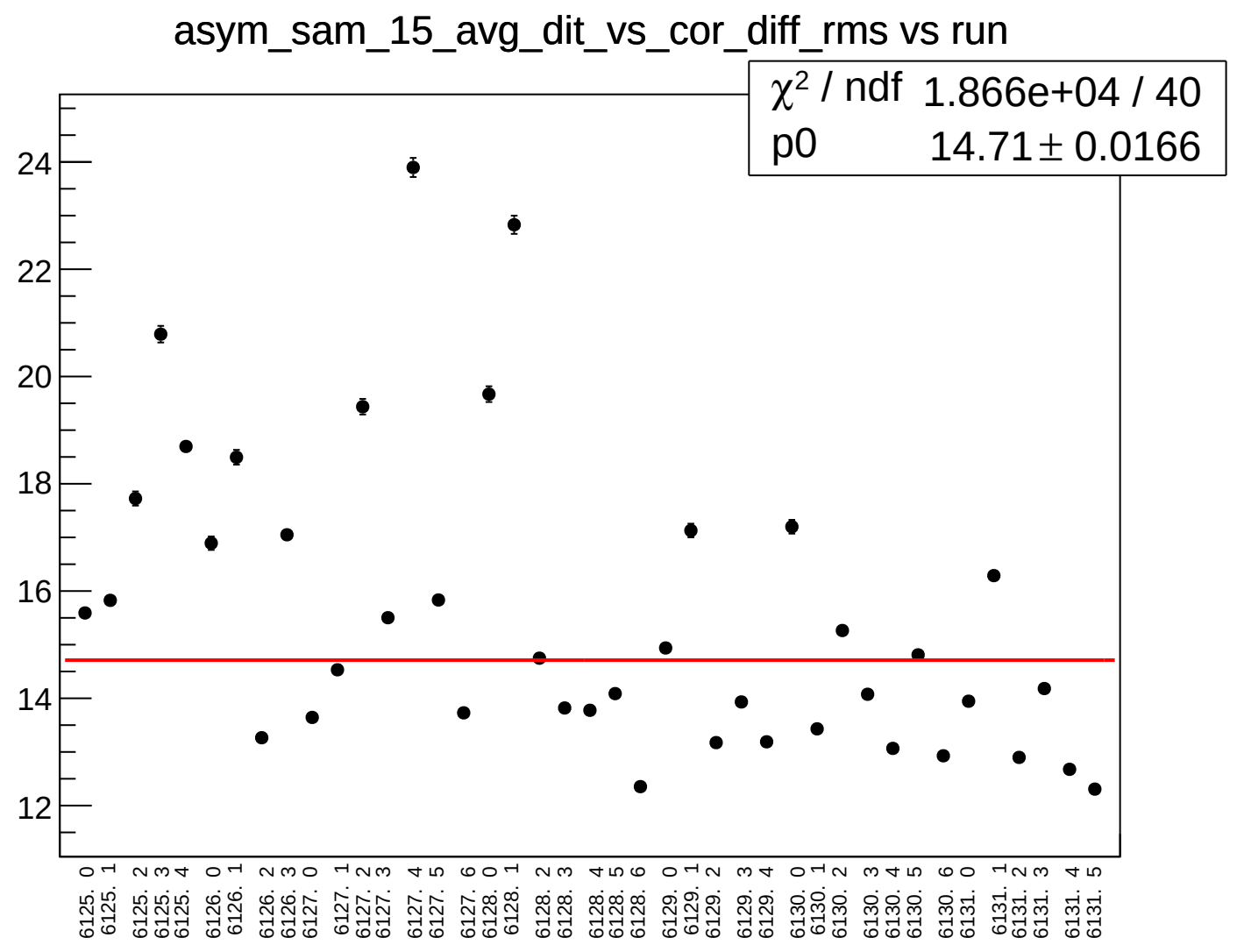

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 35.84 / 40
p0 −9.388e−16 ± 2.259e−14
0.3
0.2
0.1
0
−0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −29
Std Dev 0
2
1
0
−1
−2

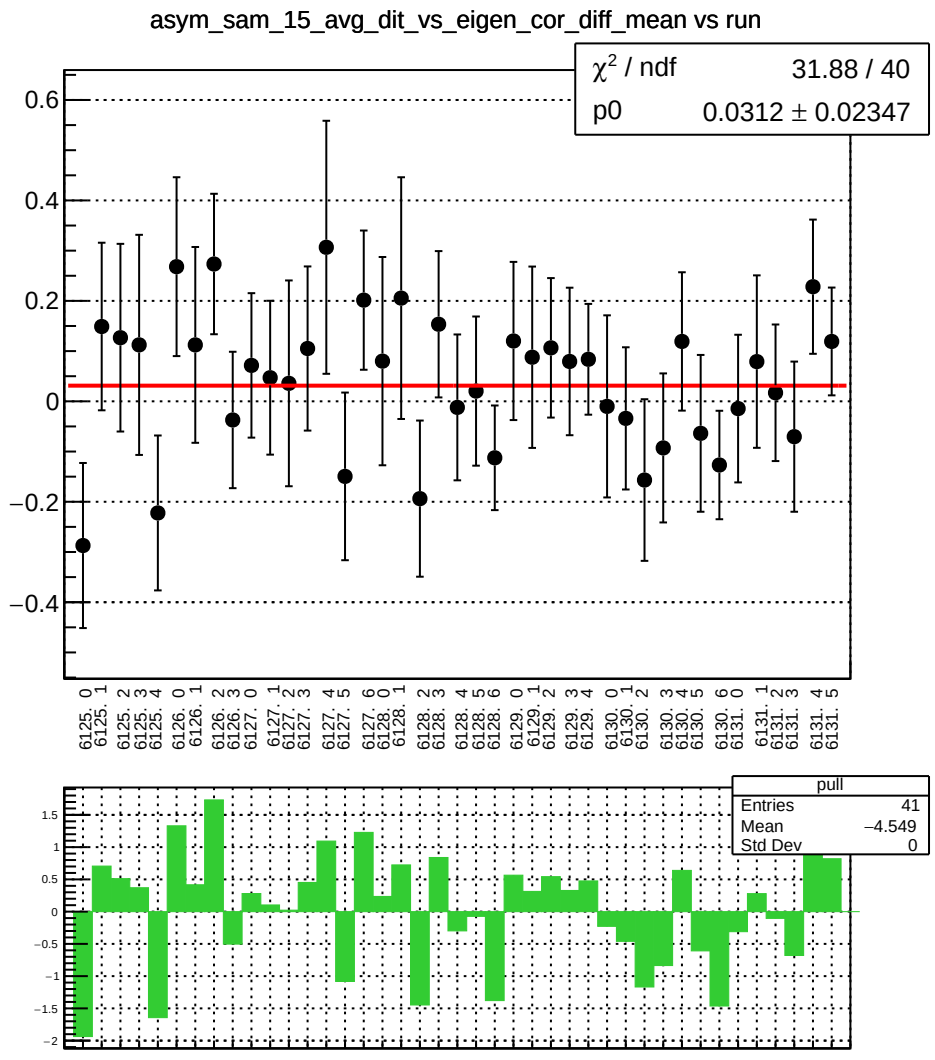

pull1D
Entries 41
Mean 0.02053
Std Dev 0.9347
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

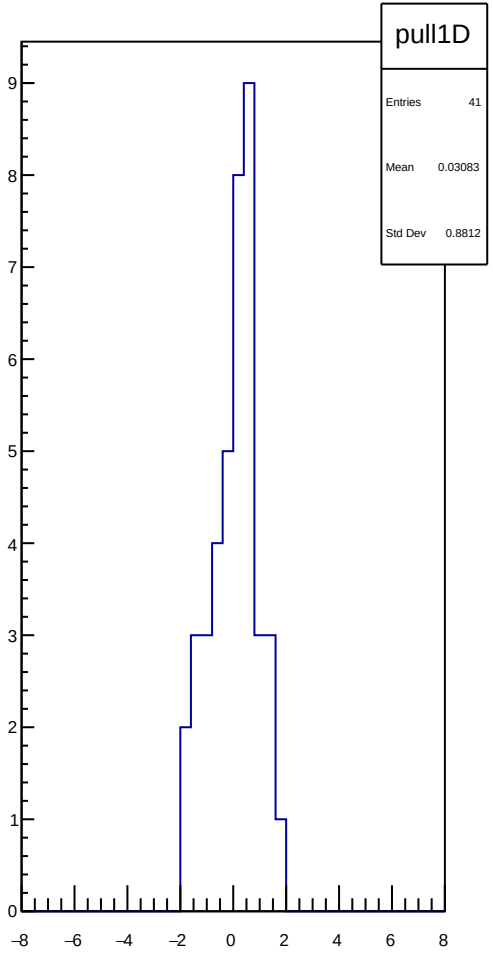

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.675e+05 / 40
p0 1.171e−11 ± 1.598e−14
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

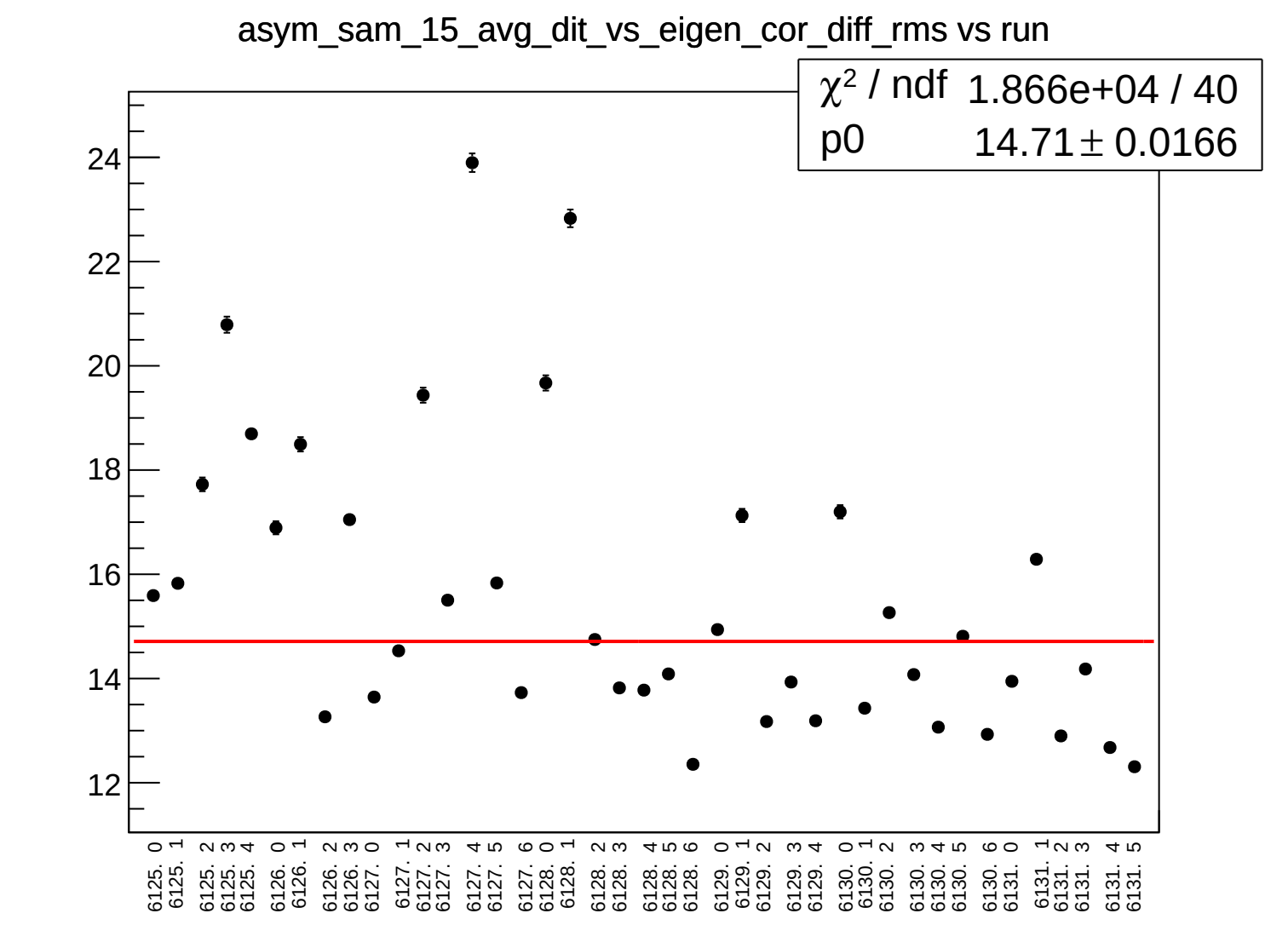

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 31.88 / 40
p0 0.0312 ± 0.02347
pull
Entries 41
Mean −4.549
Std Dev 0

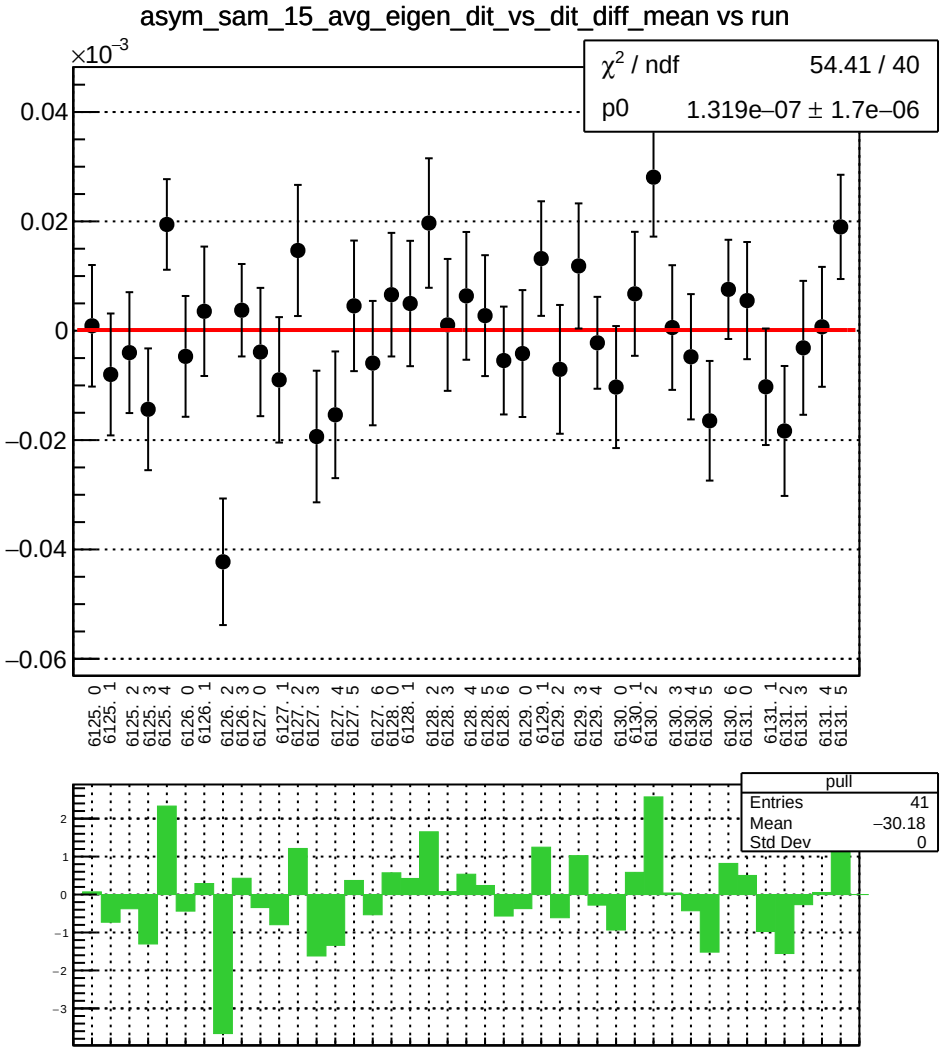

pull1D
Entries 41
Mean 0.03083
Std Dev 0.8812

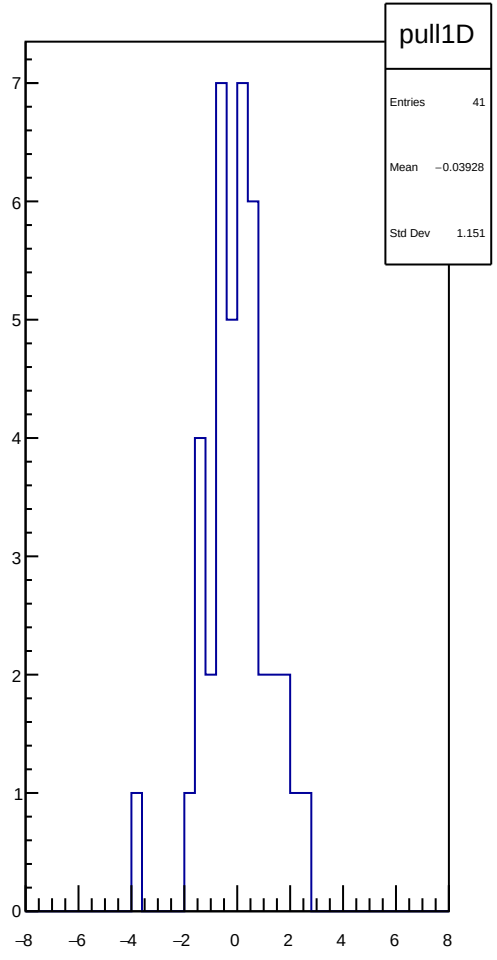

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.866e+04 / 40
p0 14.71 ± 0.0166
24
22
20
18
16
14
12
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

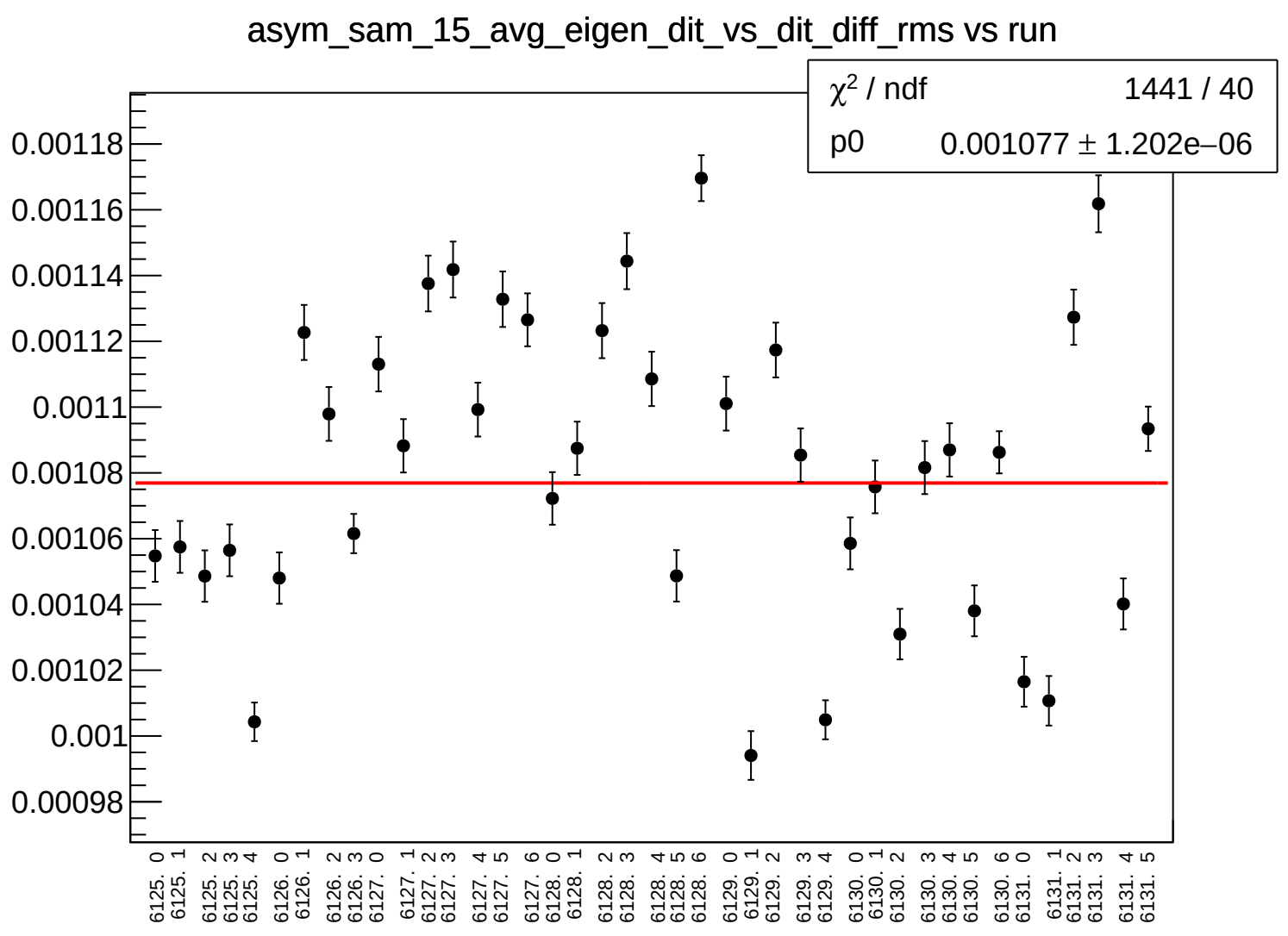

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.88 / 40
p0 0.0312 ± 0.02347
0.6
0.4
0.2
0
−0.2
−0.4
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −4.549
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

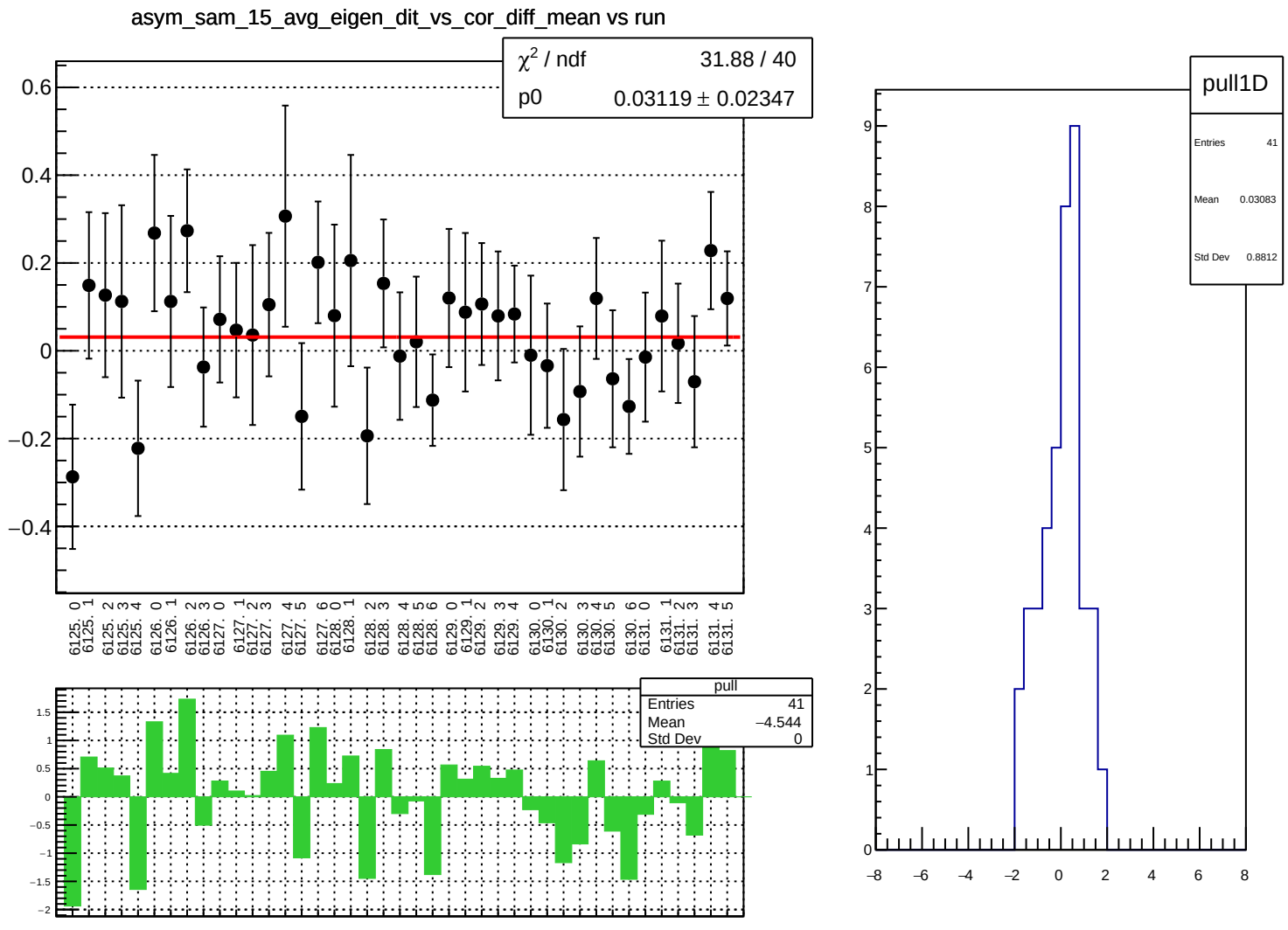

pull1D
Entries 41
Mean 0.03083
Std Dev 0.8812
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

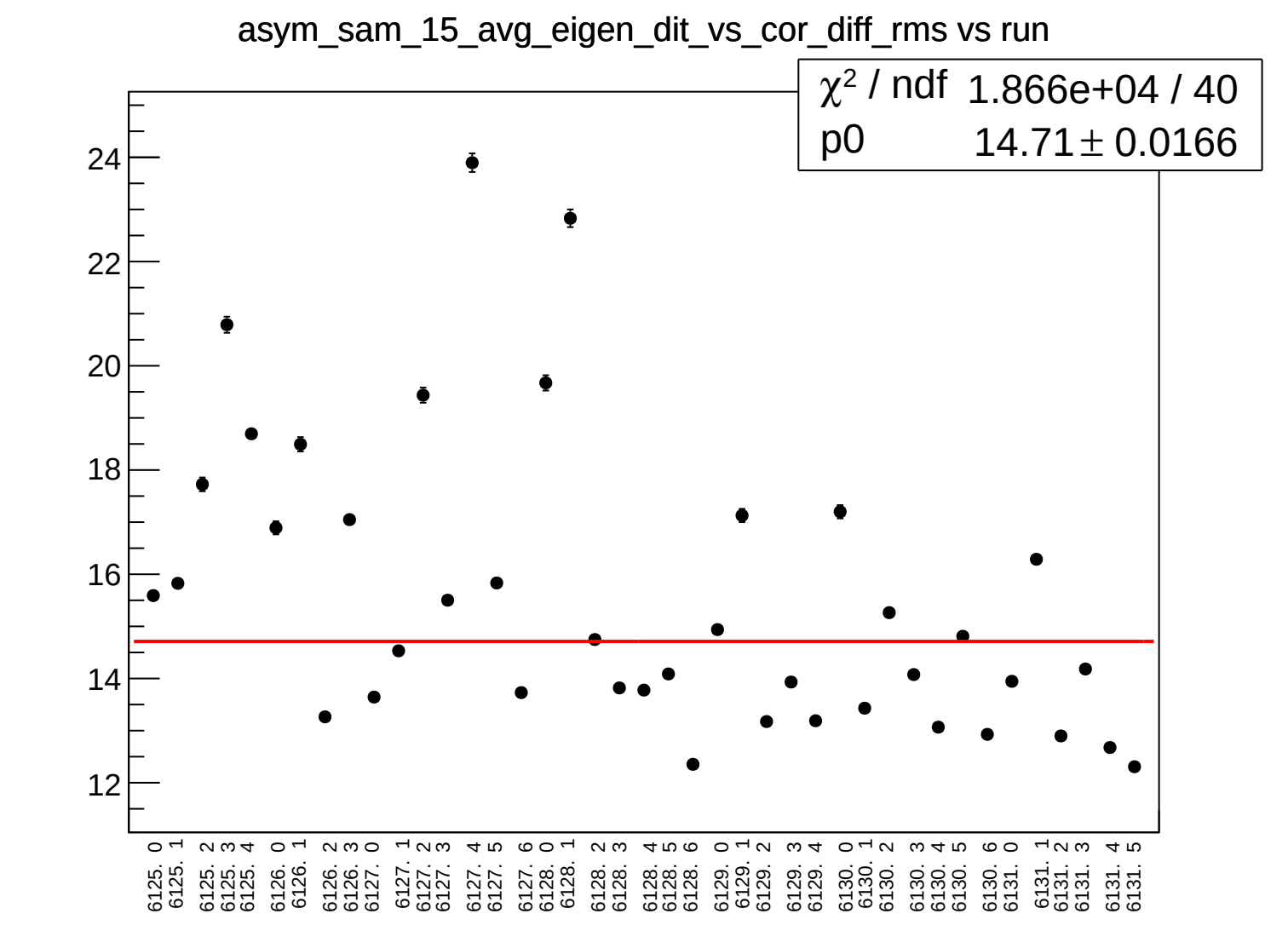

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.866e+04 / 40
p0 14.71 ± 0.0166
24
22
20
18
16
14
12
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

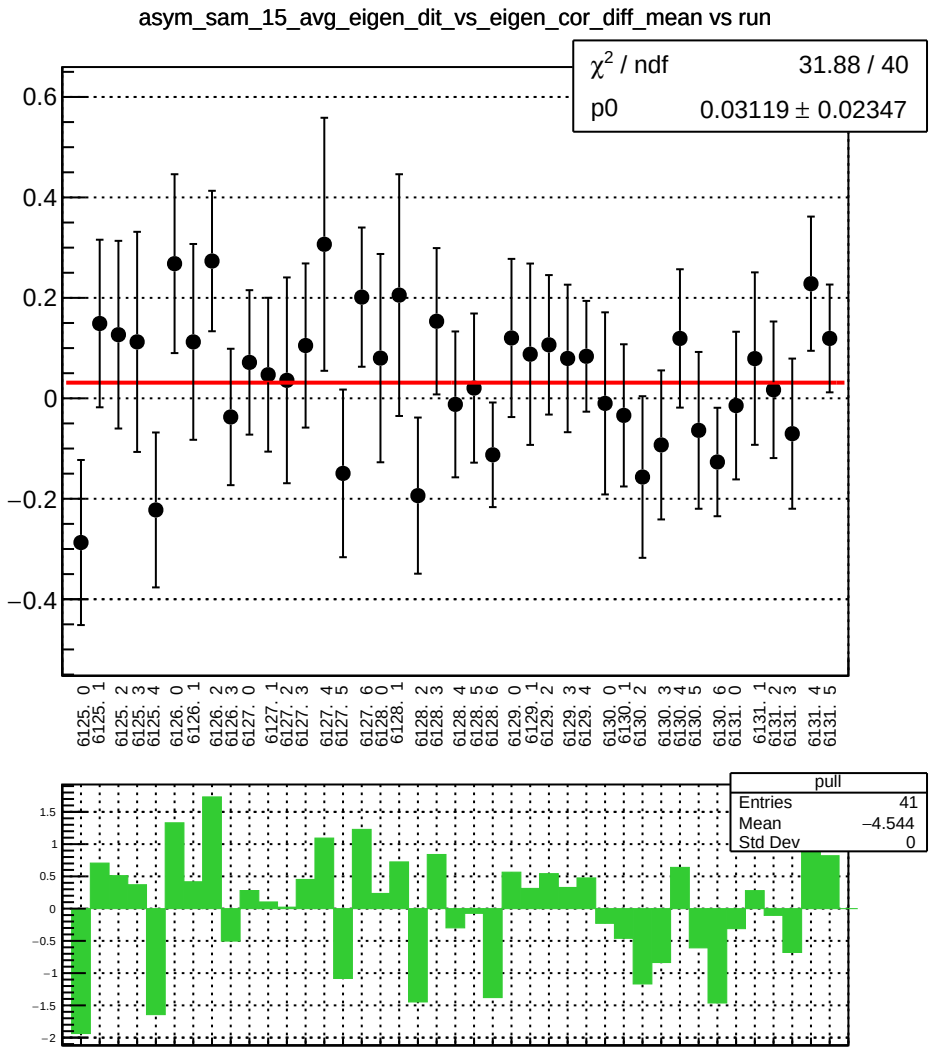

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 54.41 / 40
p0 1.319e−07 ± 1.7e−06
0.04
0.02
0
−0.02
−0.04
−0.06
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −30.18
Std Dev 0
2
1
0
−1
−2
−3

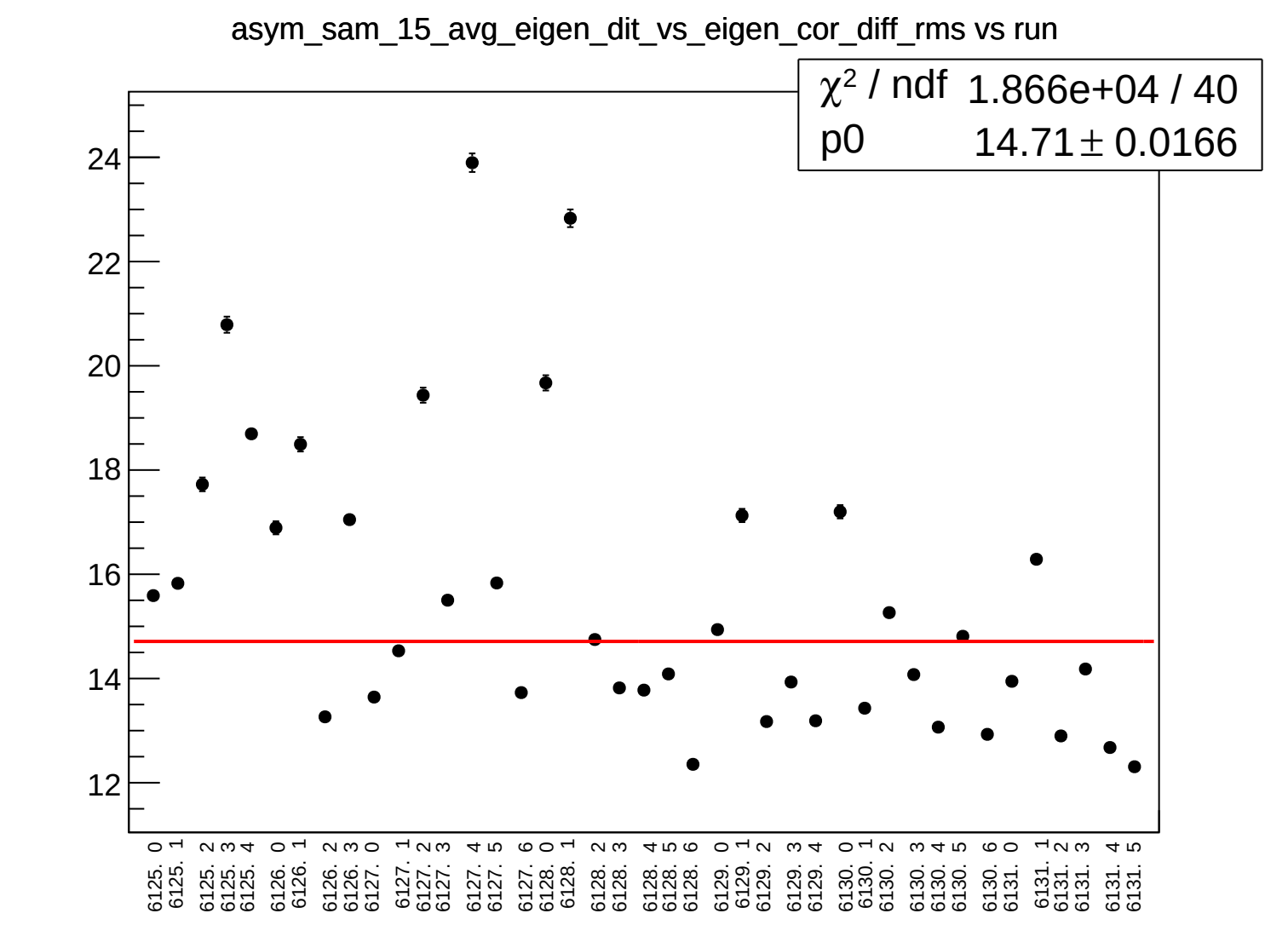

pull1D
Entries 41
Mean −0.03928
Std Dev 1.151
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

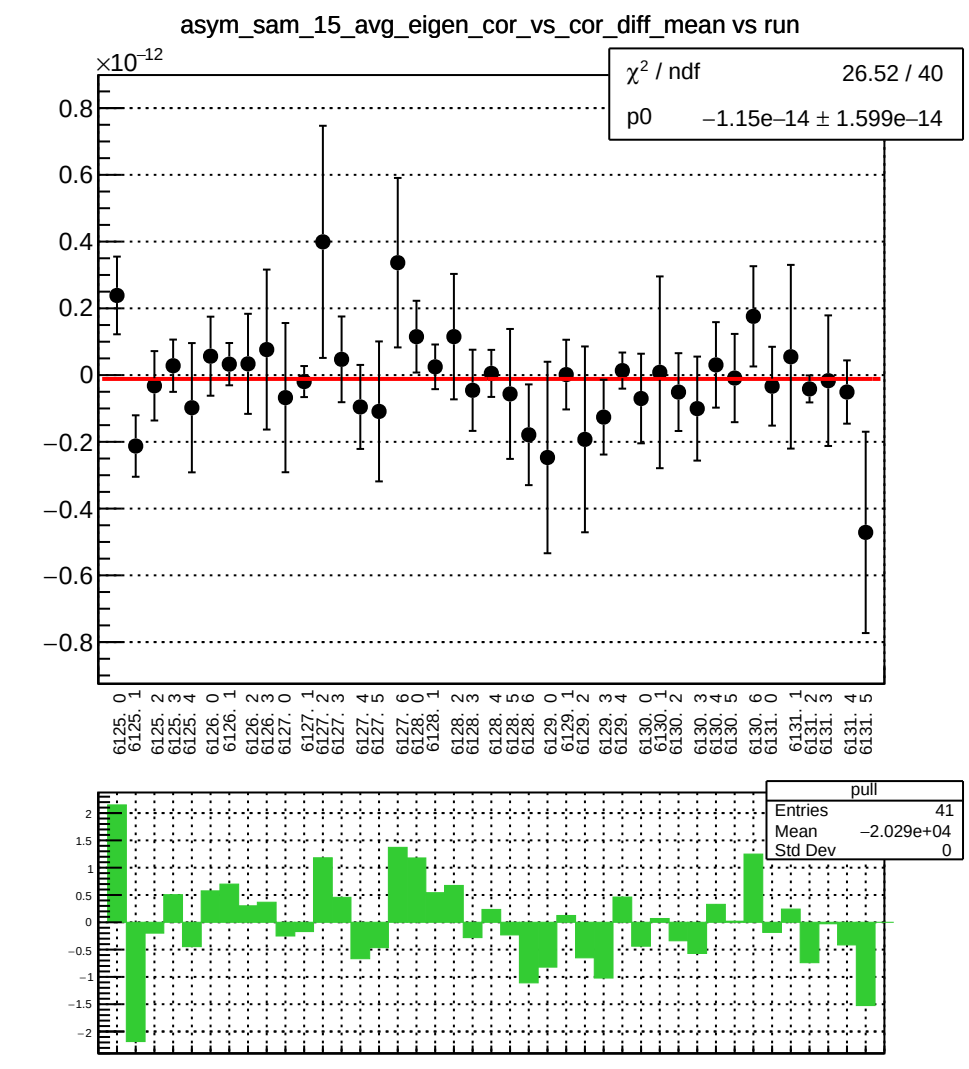

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1441 / 40
p0 0.001077 ± 1.202e−06
0.00118
0.00116
0.00114
0.00112
0.0011
0.00108
0.00106
0.00104
0.00102
0.001
0.00098
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

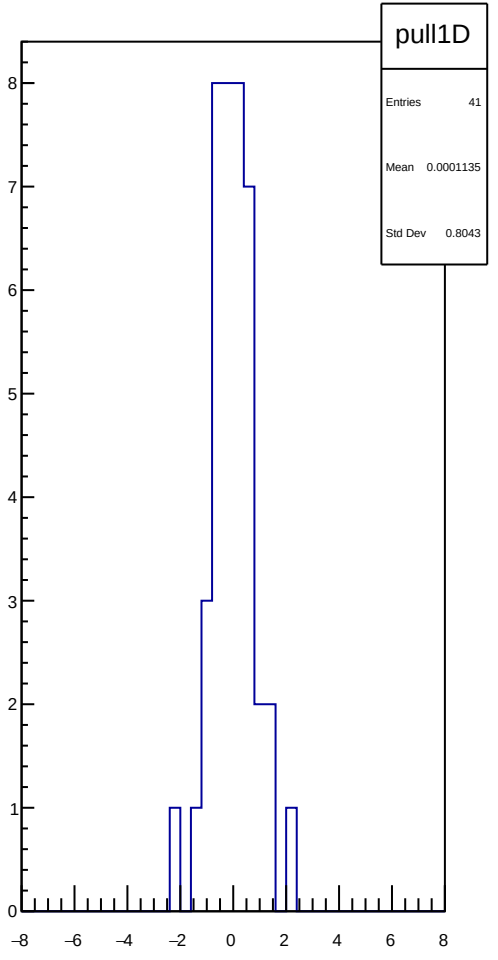

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 31.88 / 40
p0 0.03119 ± 0.02347
0.6
0.4
0.2
0
−0.2
−0.4
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −4.544
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.03083
Std Dev 0.8812
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

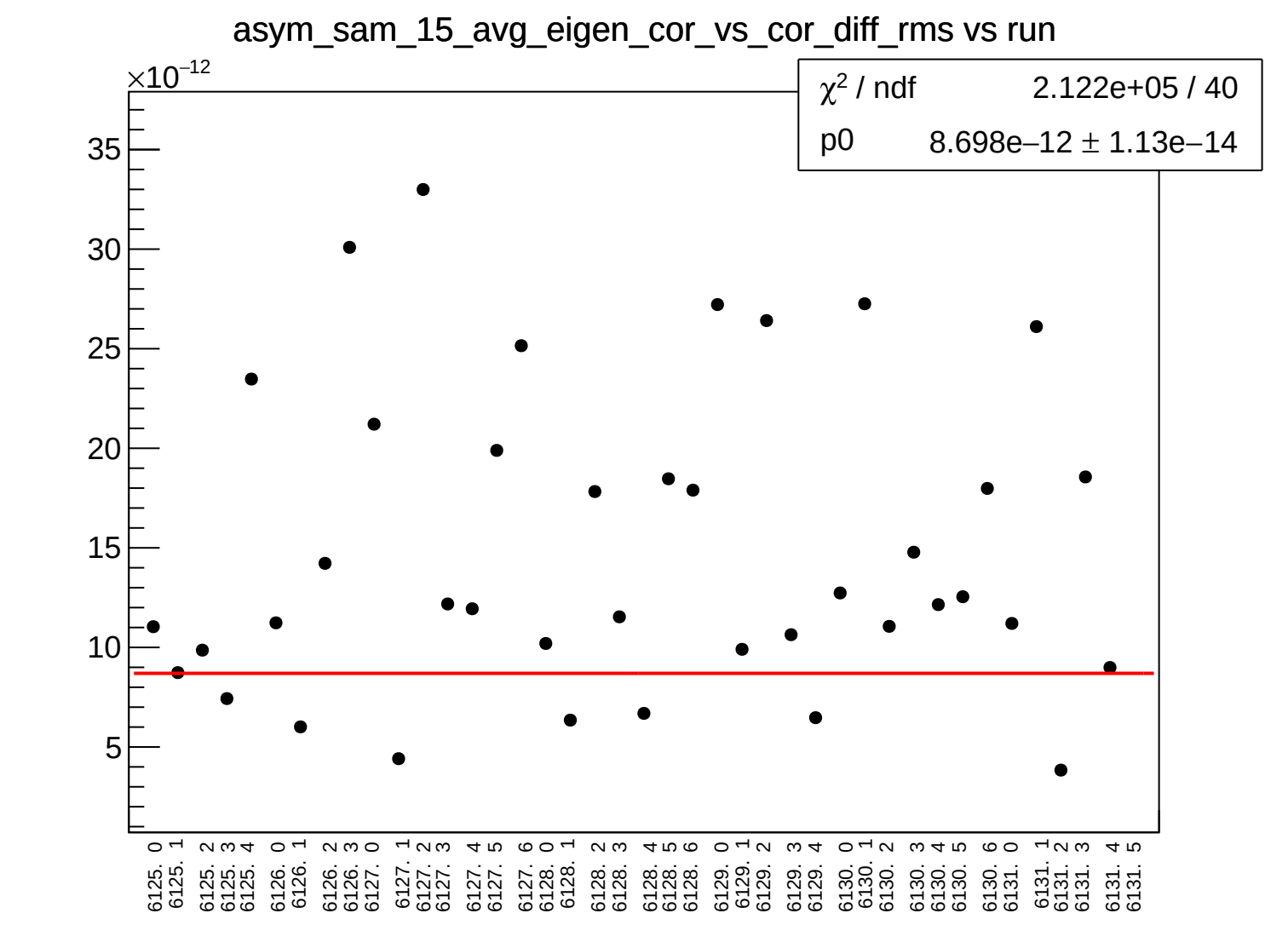

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.866e+04 / 40
p0 14.71 ± 0.0166
24
22
20
18
16
14
12
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

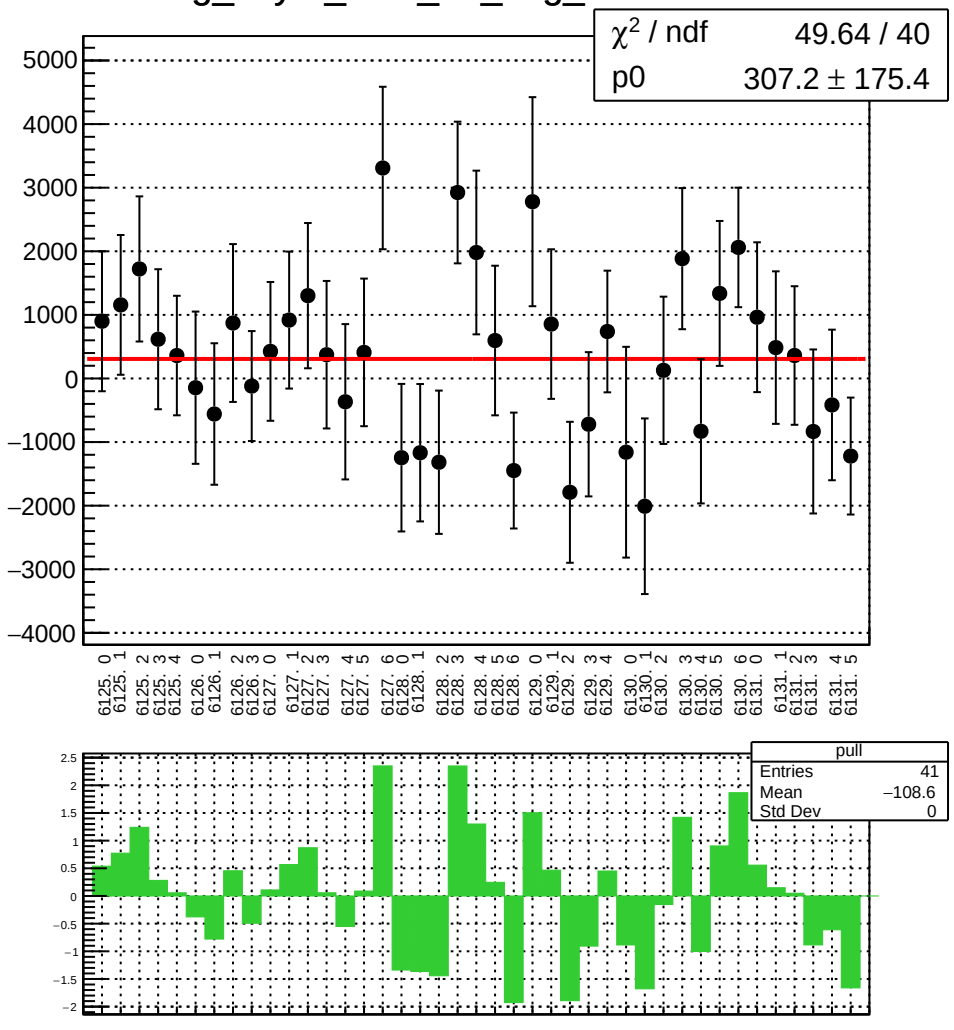

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.88 / 40
p0 0.03119 ± 0.02347
0.6
0.4
0.2
0
−0.2
−0.4
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −4.544
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.03083
Std Dev 0.8812
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

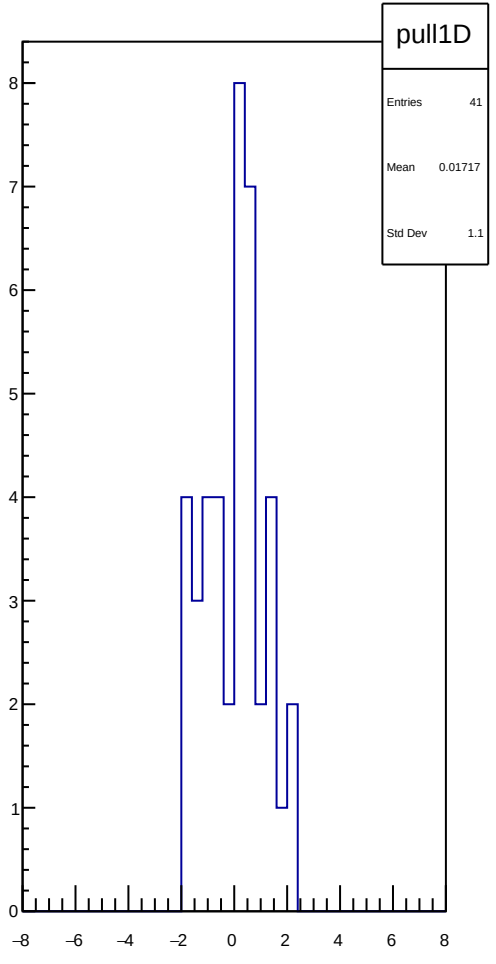

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.866e+04 / 40
p0 14.71 ± 0.0166
24
22
20
18
16
14
12
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

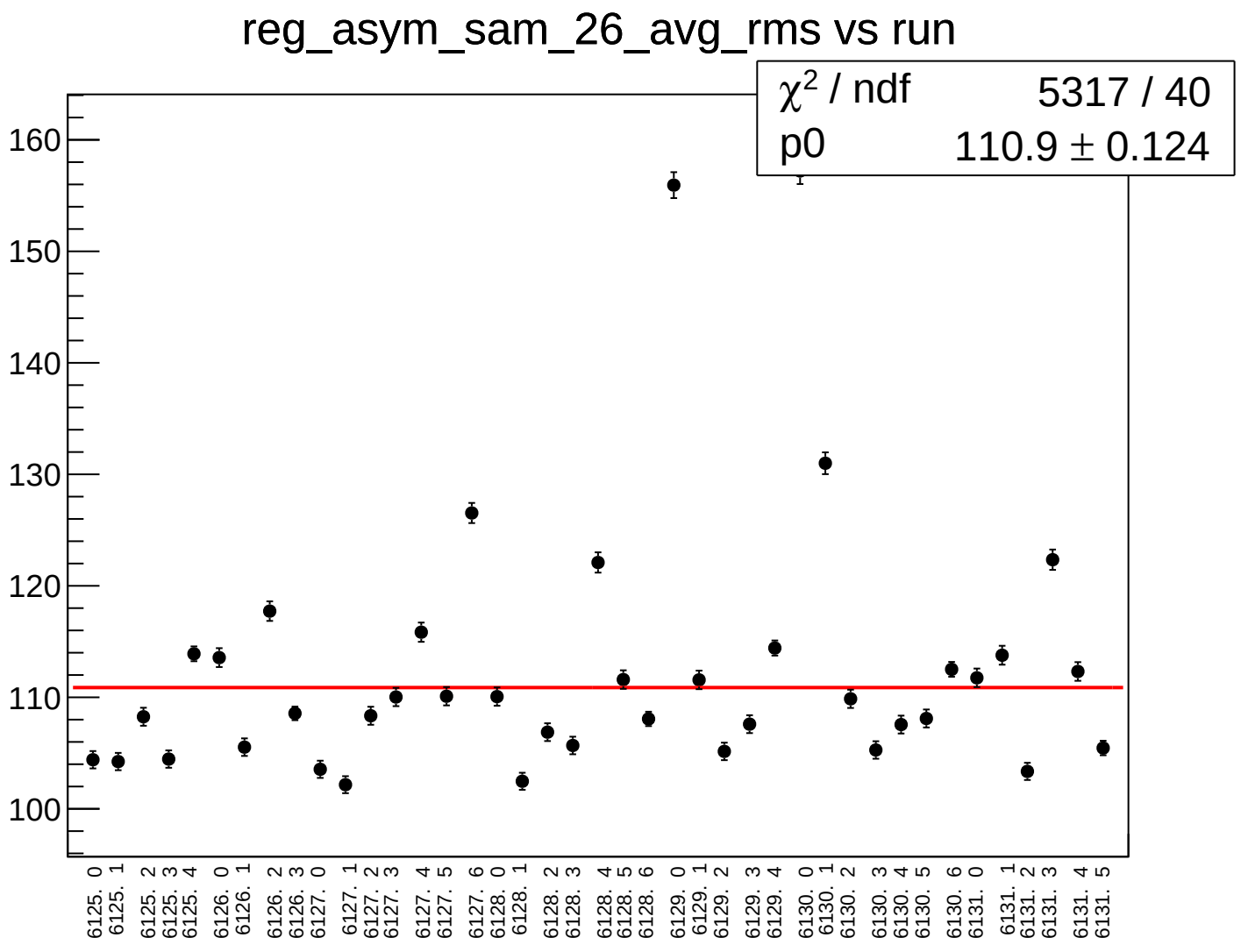

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 26.52 / 40
p0 −1.15e−14 ± 1.599e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −2.029e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

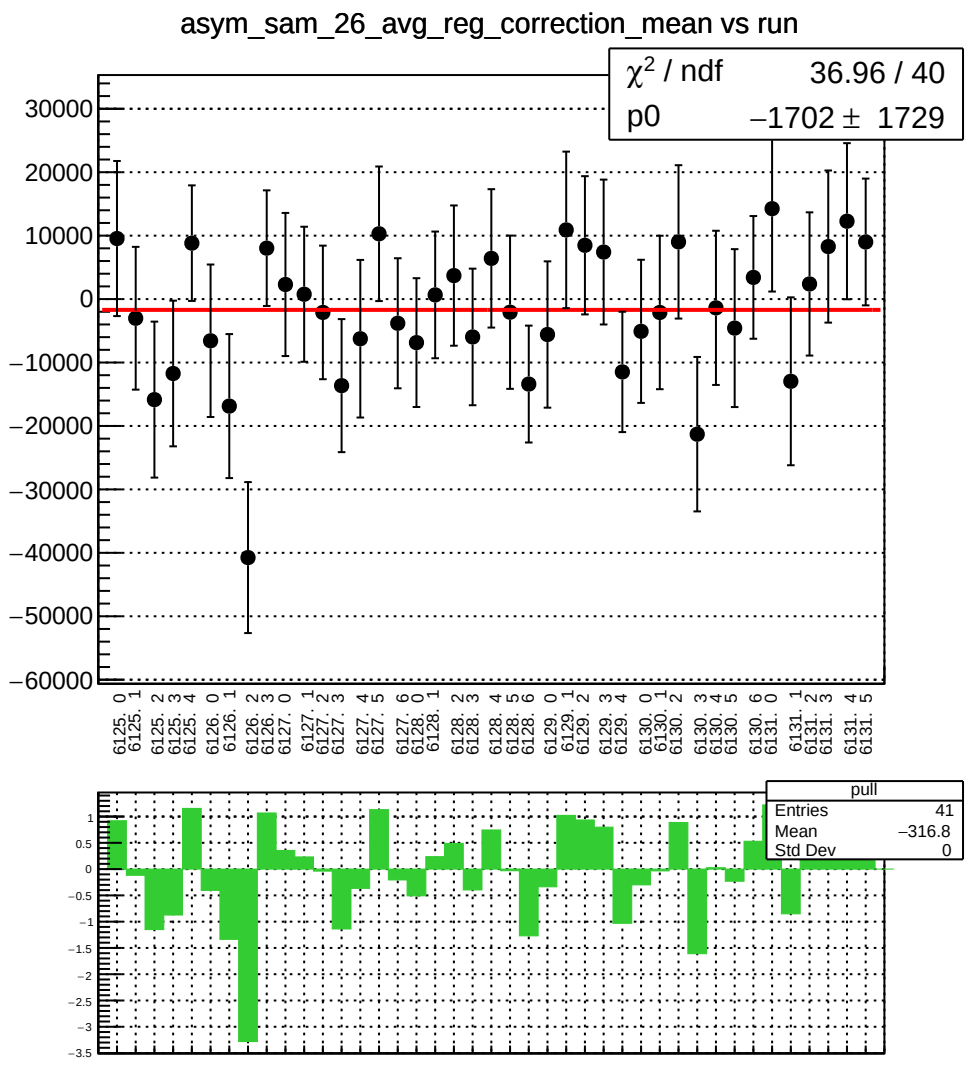

pull1D
Entries 41
Mean 0.0001135
Std Dev 0.8043
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

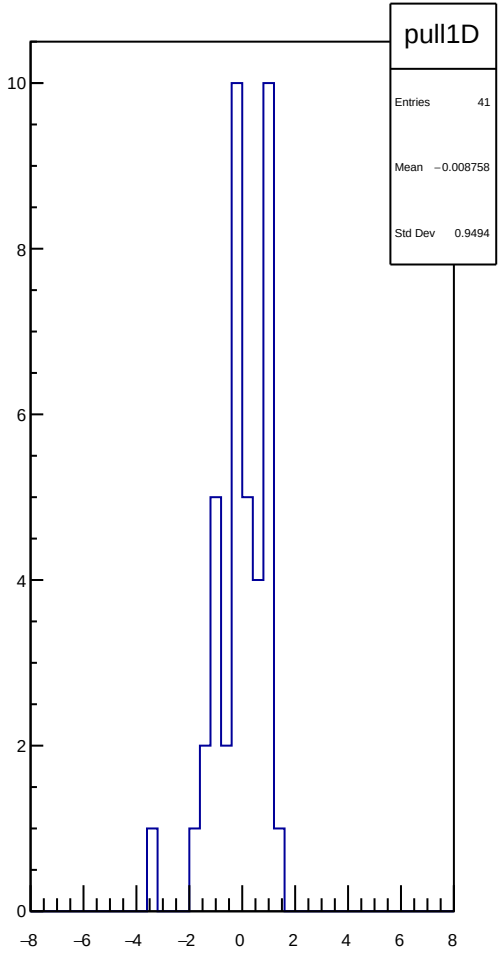

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.122e+05 / 40
p0 8.698e−12 ± 1.13e−14
35
30
25
20
15
10
5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

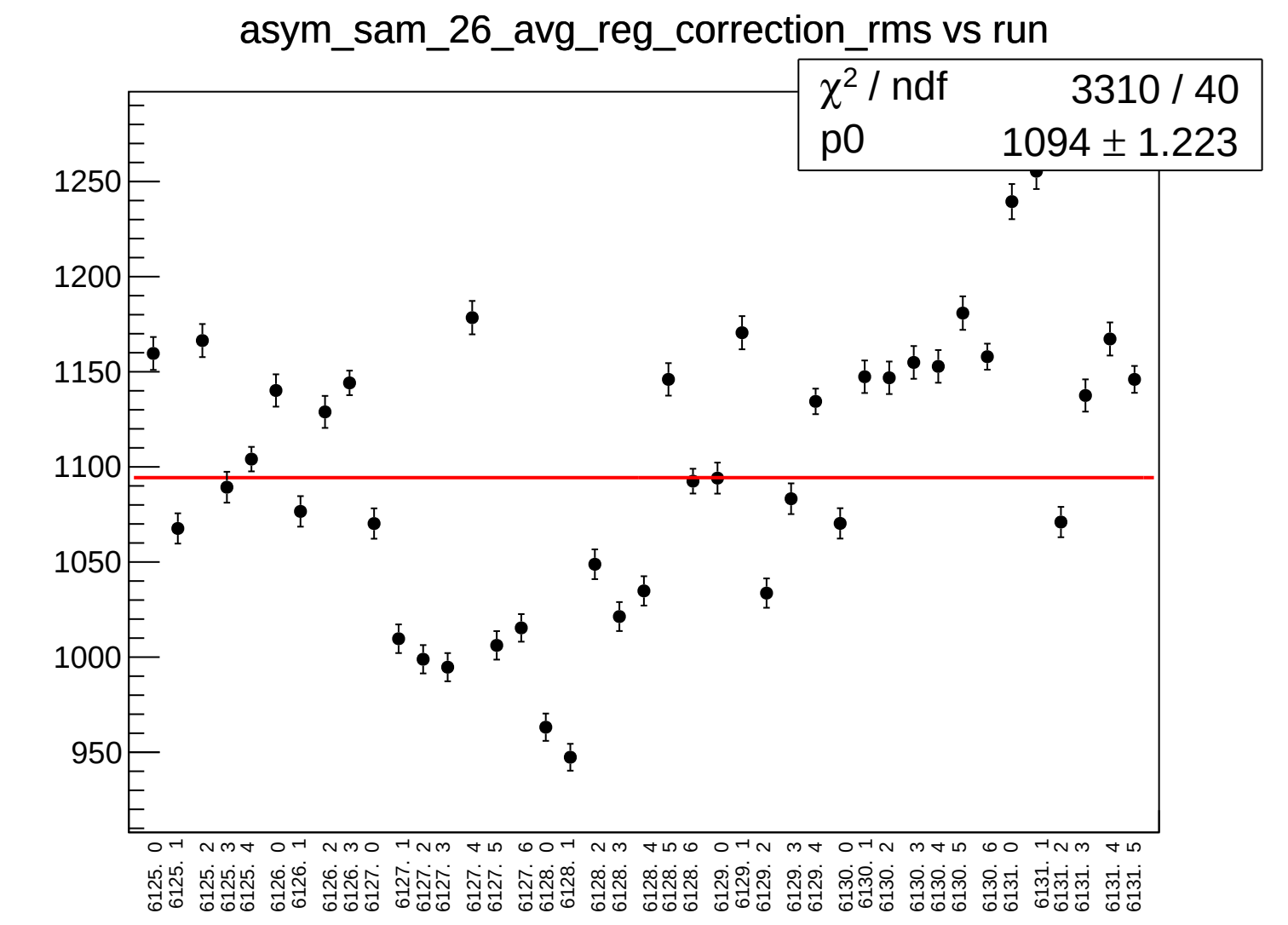

reg_asym_sam_26_avg_mean vs run
χ² / ndf 49.64 / 40
p0 307.2 ± 175.4
pull
Entries 41
Mean −108.6
Std Dev 0

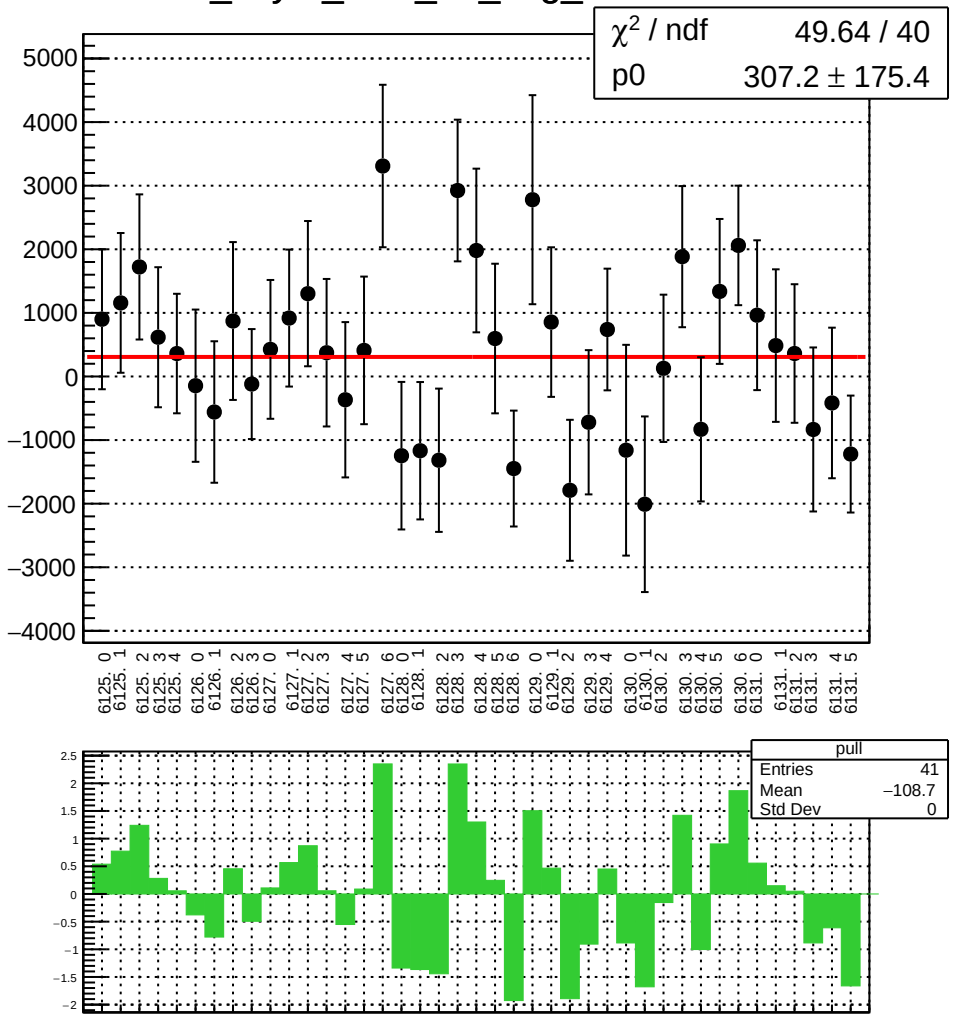

pull1D
Entries 41
Mean 0.01717
Std Dev 1.1

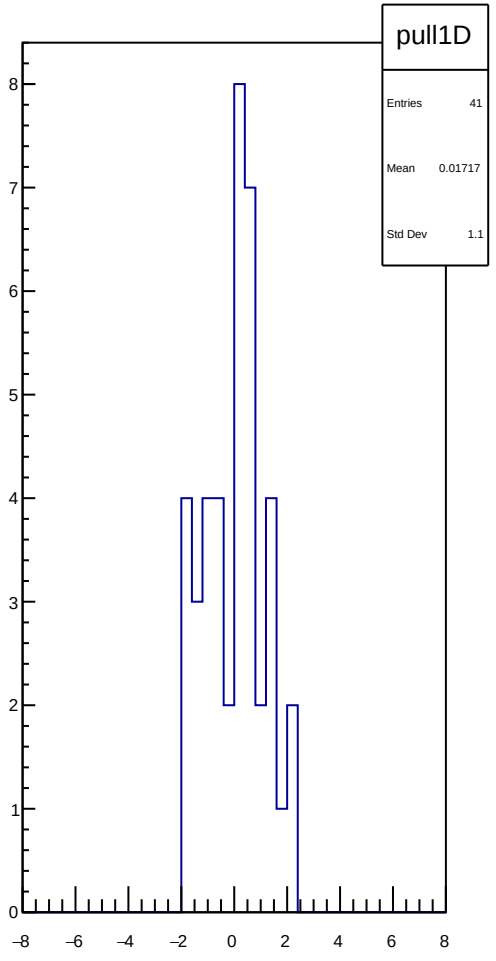

reg_asym_sam_26_avg_rms vs run
χ² / ndf 5317 / 40
p0 110.9 ± 0.124
160
150
140
130
120
110
100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

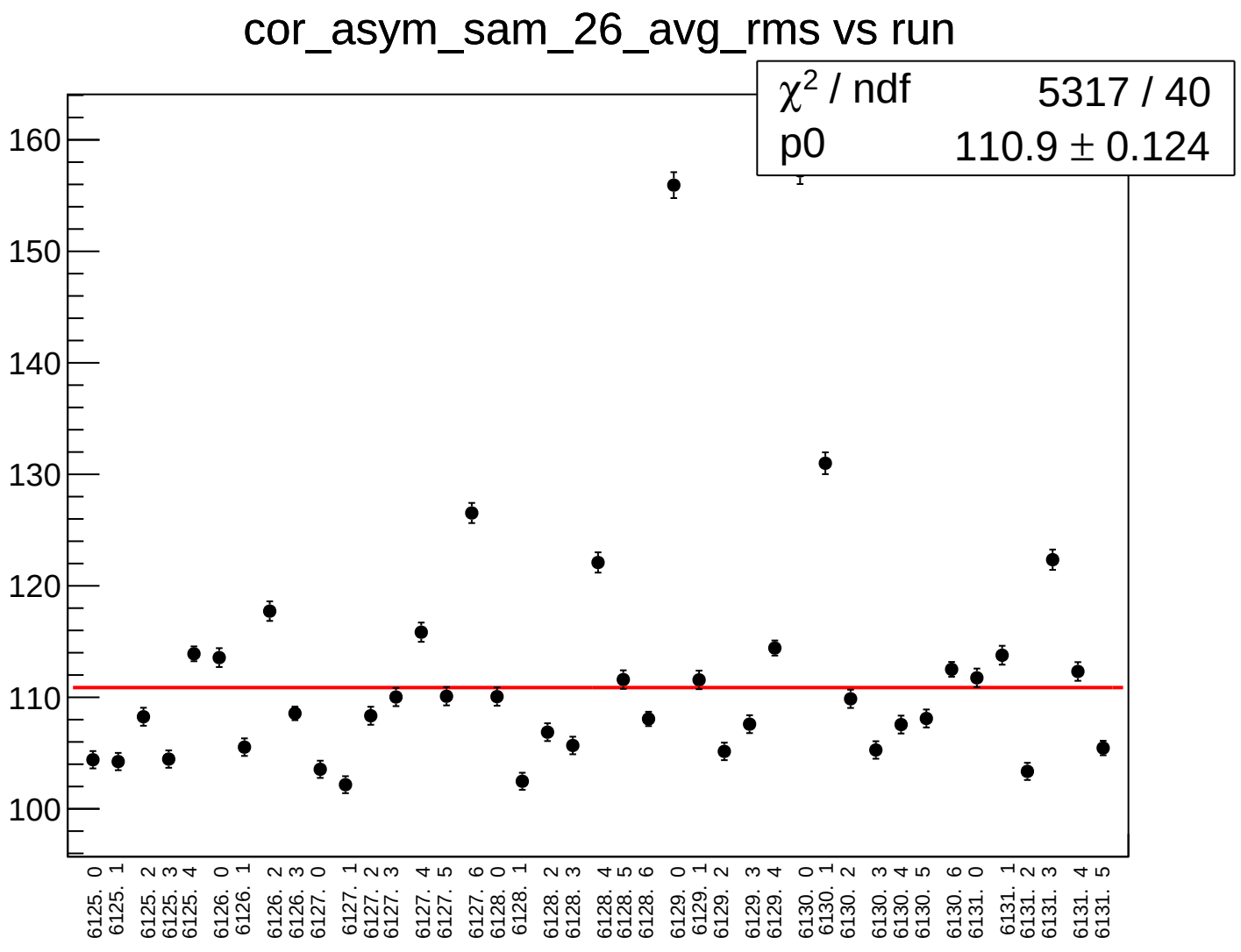

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 36.96 / 40
p0 −1702 ± 1729
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −316.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5

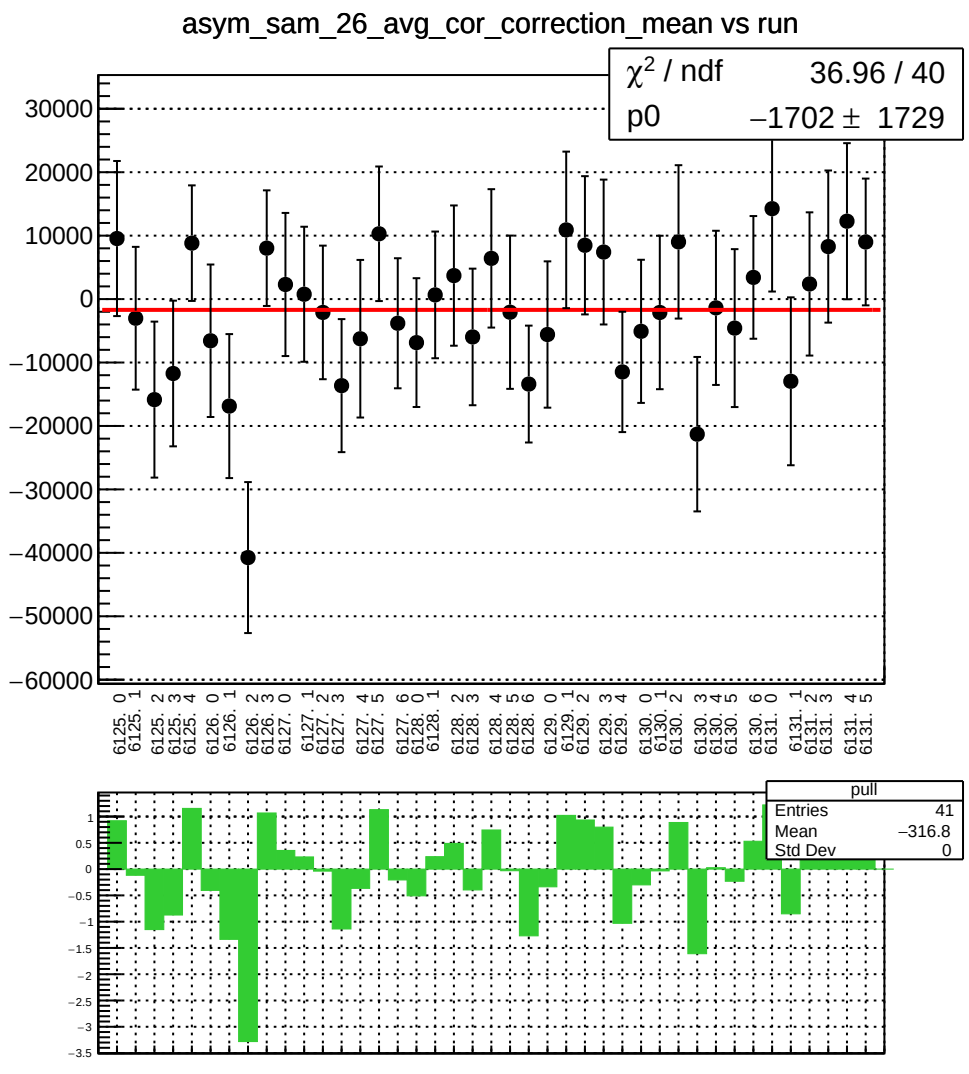

pull1D
Entries 41
Mean −0.008758
Std Dev 0.9494
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

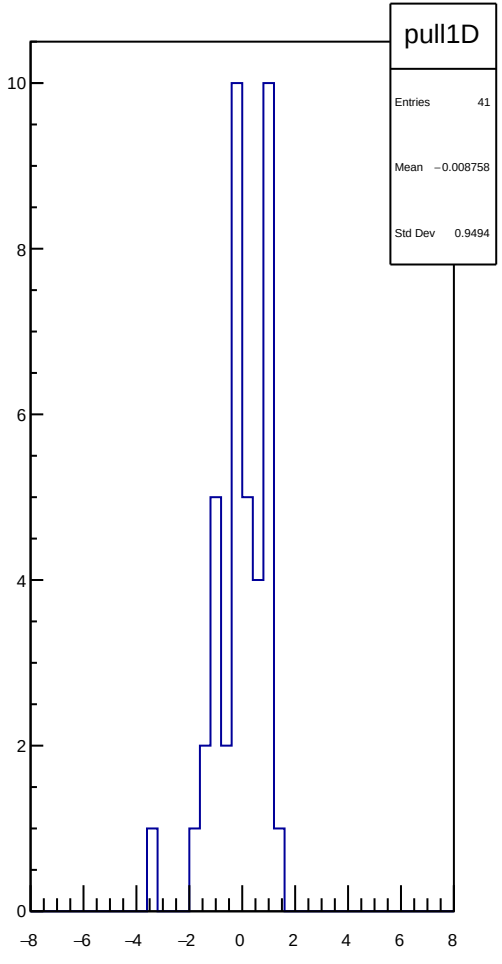

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 3310 / 40
p0 1094 ± 1.223
1250
1200
1150
1100
1050
1000
950
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

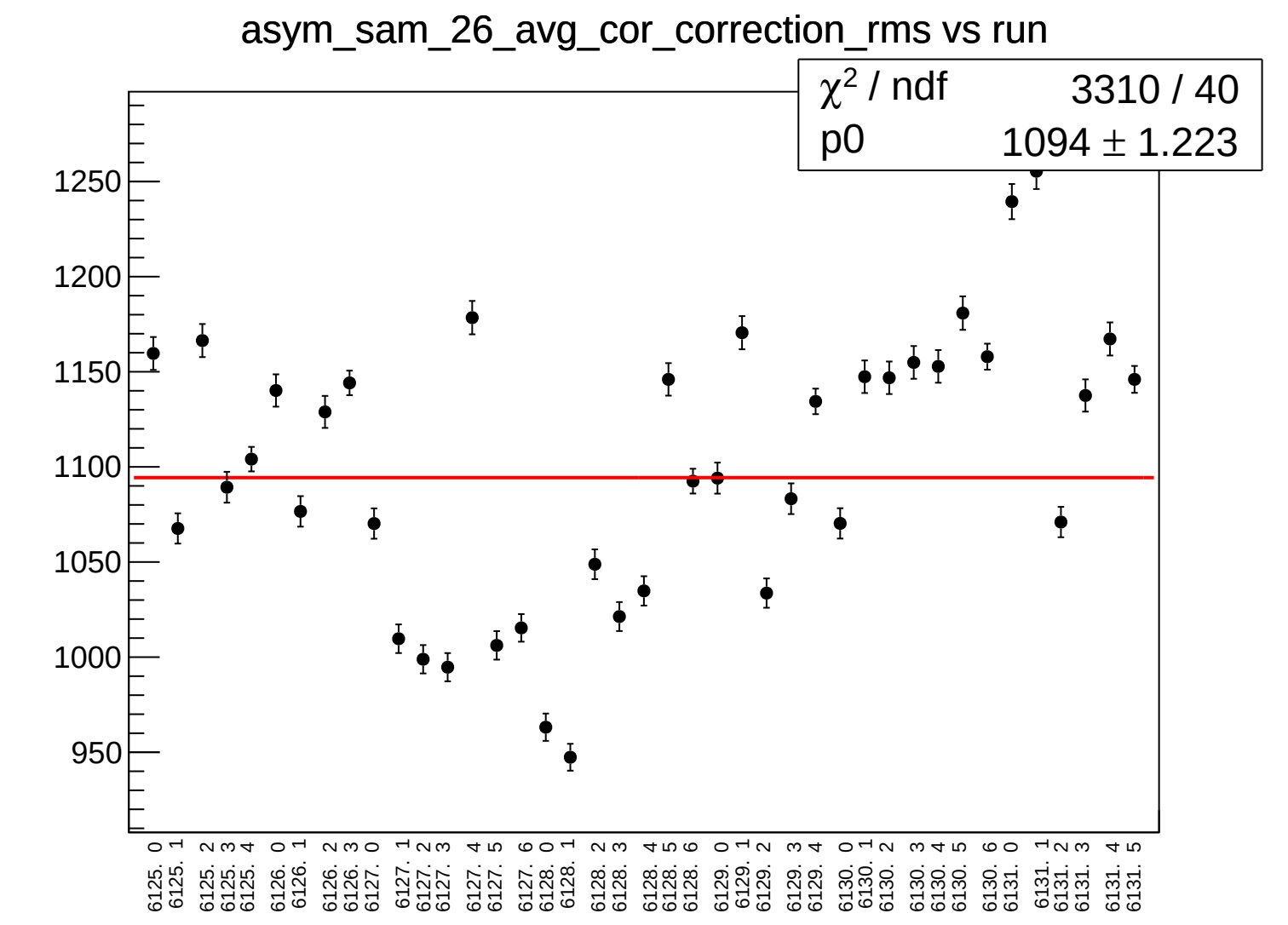

cor_asym_sam_26_avg_mean vs run
χ² / ndf 49.64 / 40
p0 307.2 ± 175.4
pull
Entries 41
Mean −108.7
Std Dev 0

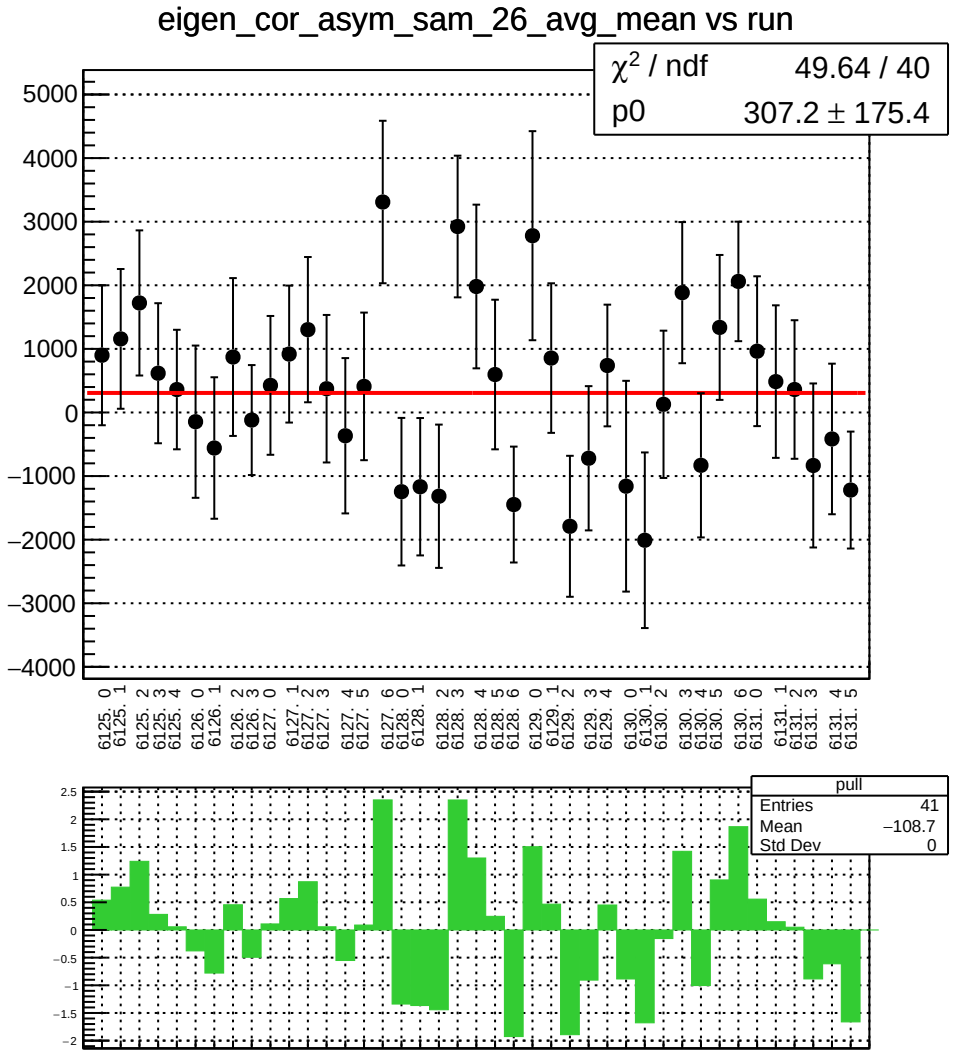

pull1D
Entries 41
Mean 0.01717
Std Dev 1.1

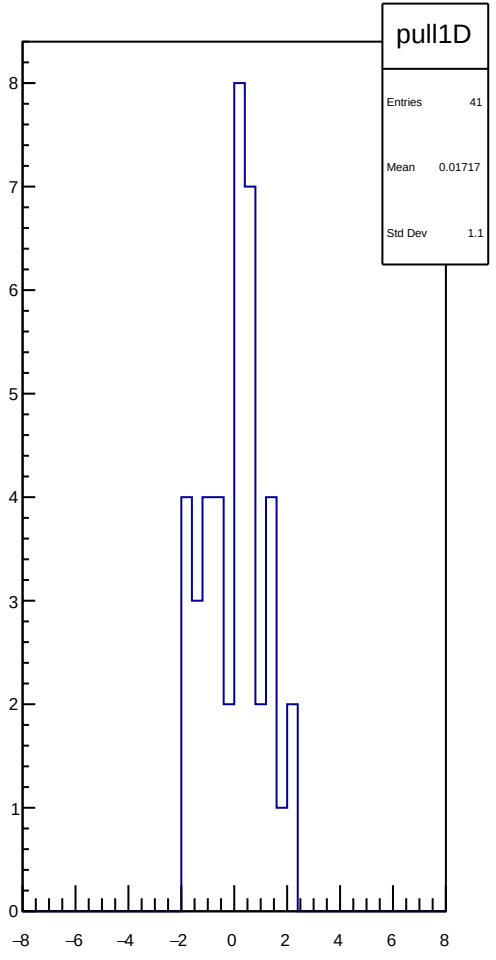

cor_asym_sam_26_avg_rms vs run
χ² / ndf 5317 / 40
p0 110.9 ± 0.124
160
150
140
130
120
110
100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

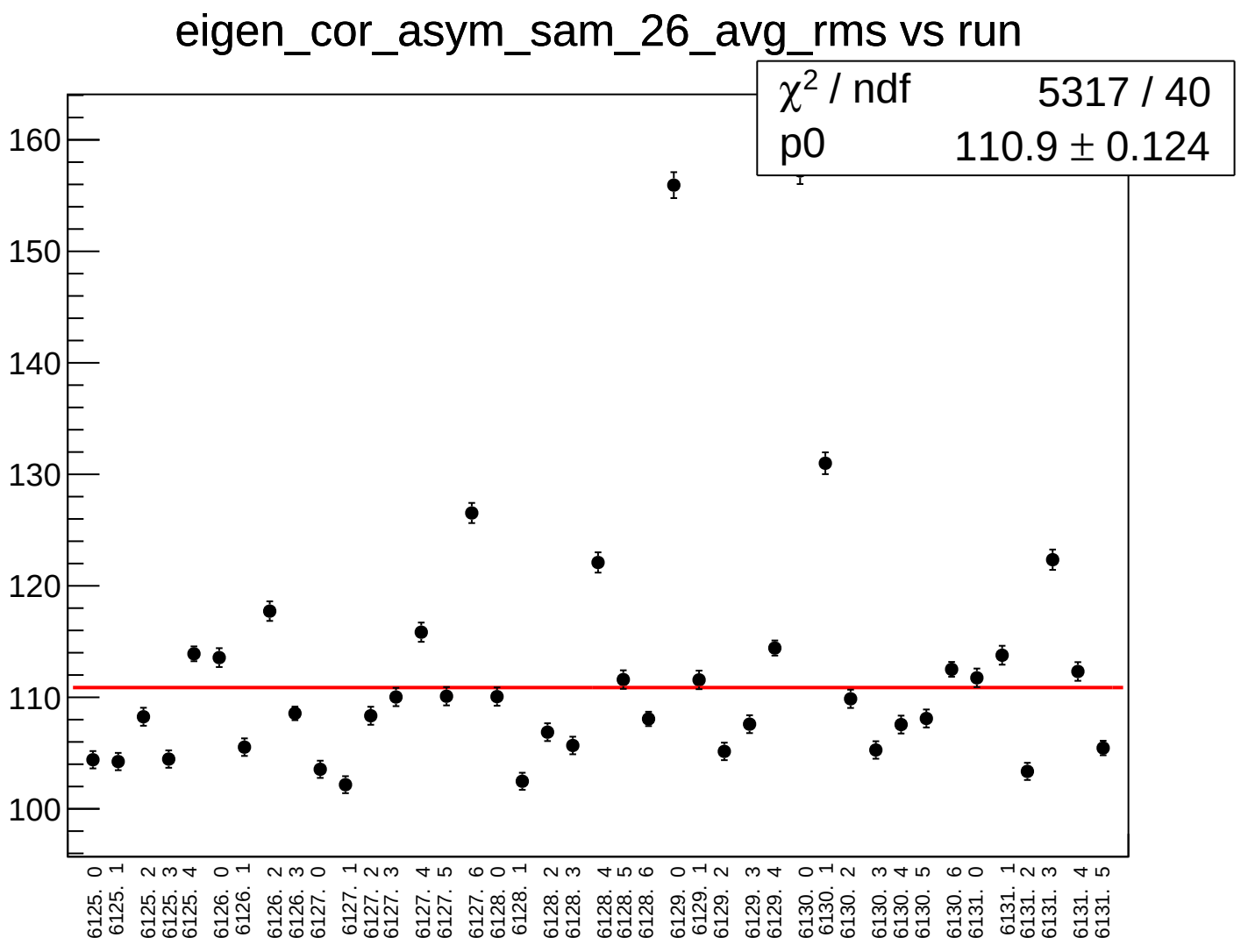

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 36.96 / 40
p0 −1702 ± 1729
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −316.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5

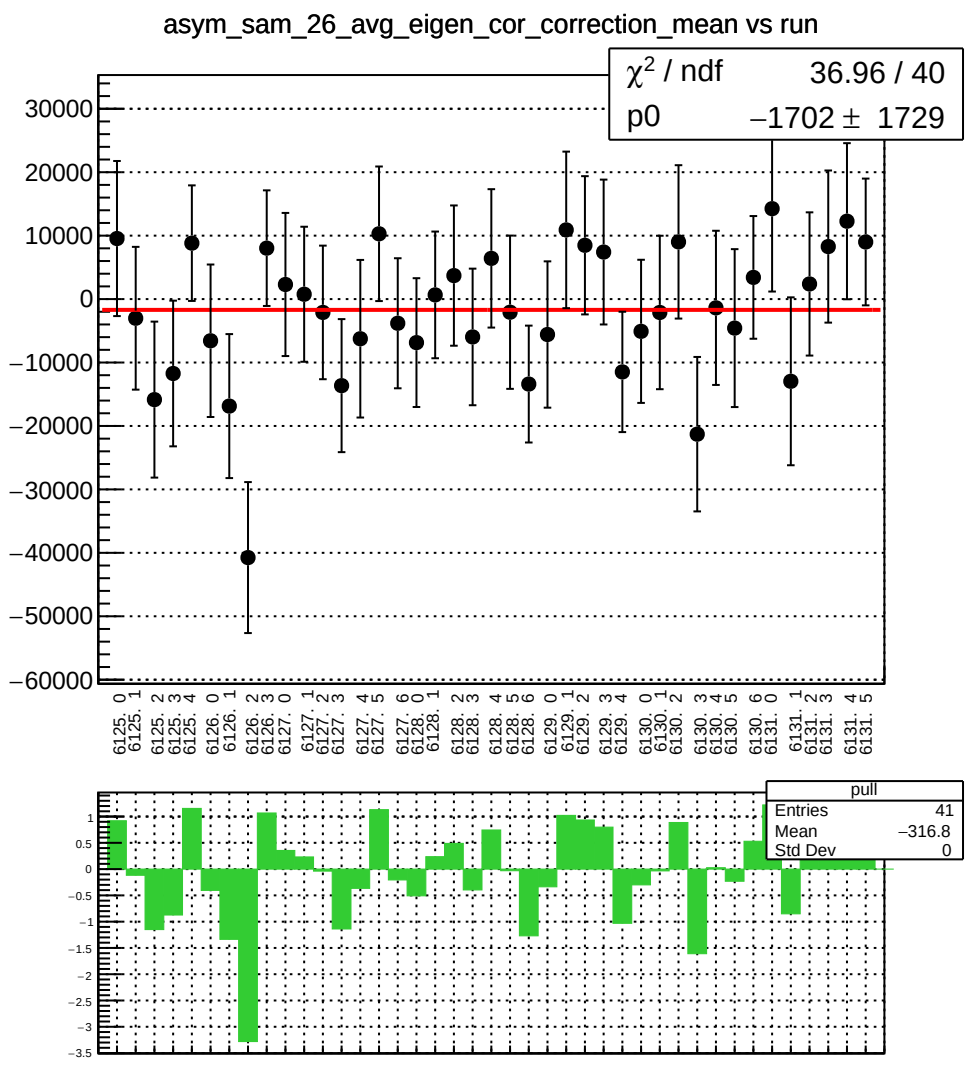

pull1D
Entries 41
Mean −0.008758
Std Dev 0.9494
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

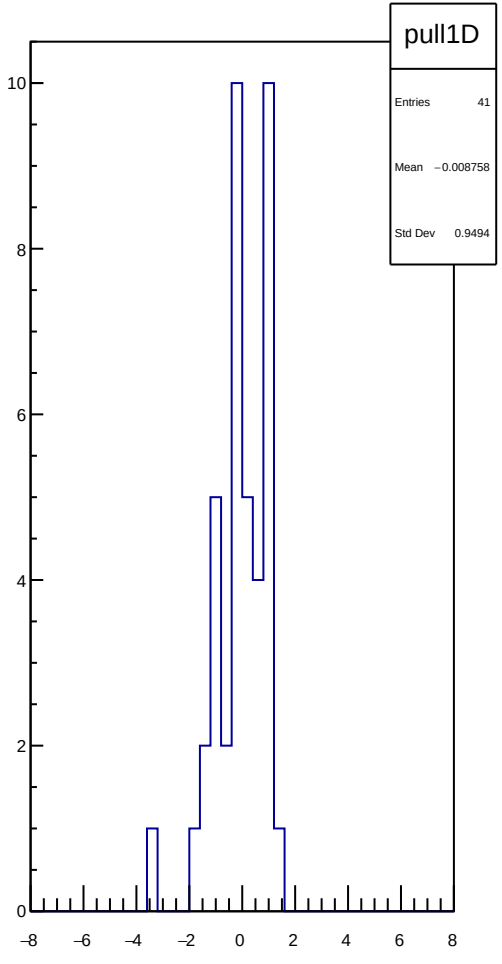

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 3310 / 40
p0 1094 ± 1.223
1250
1200
1150
1100
1050
1000
950
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

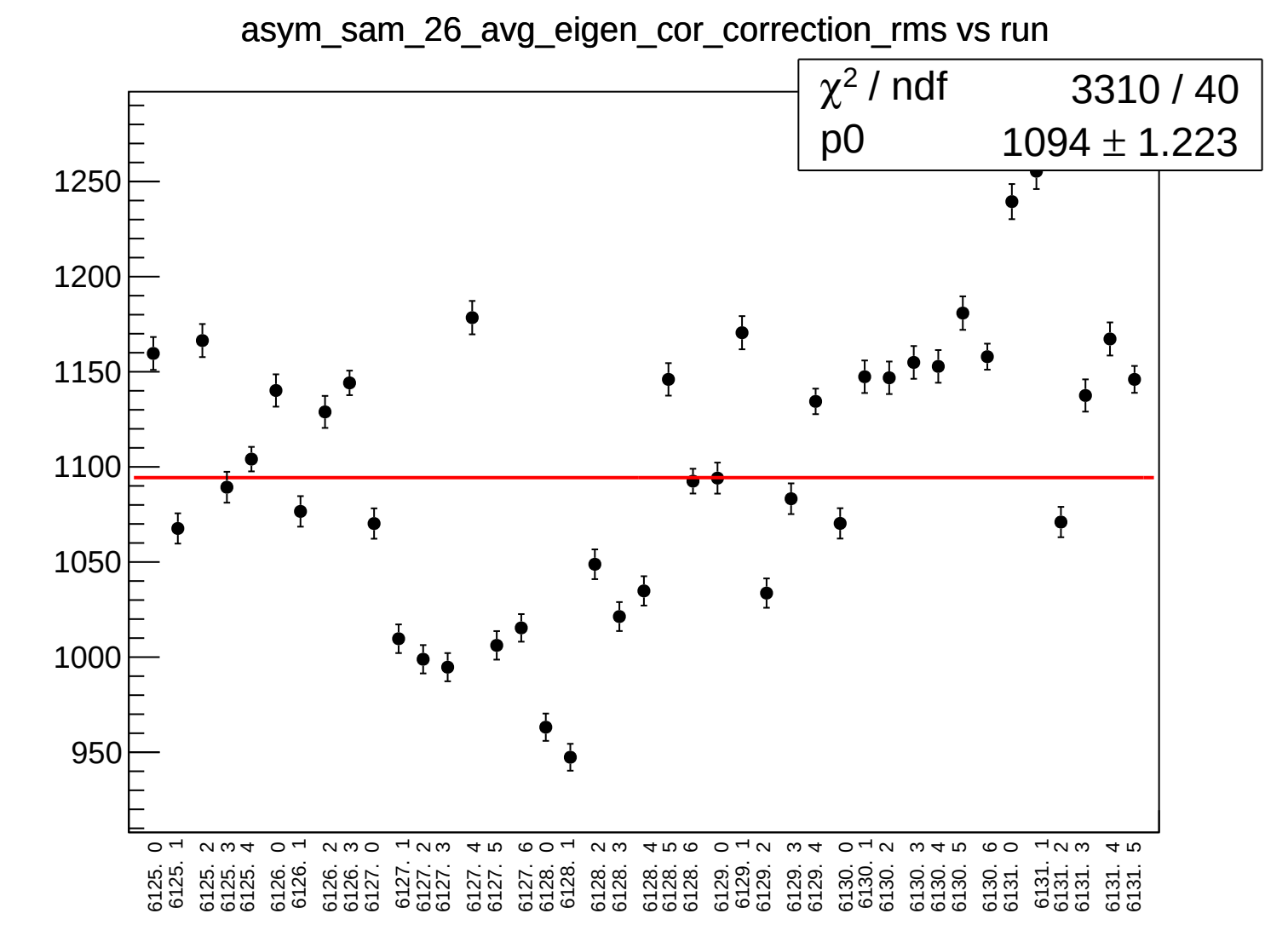

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 49.64 / 40
p0 307.2 ± 175.4
pull
Entries 41
Mean −108.7
Std Dev 0

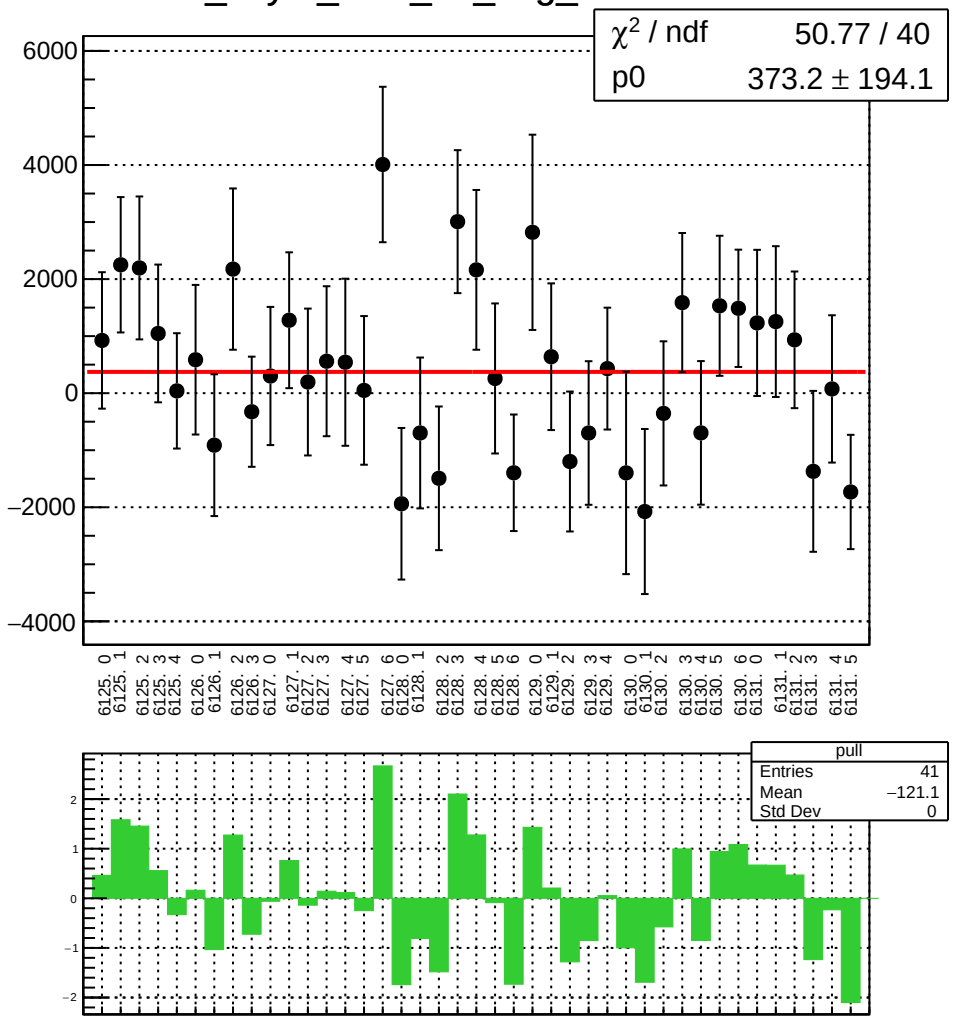

pull1D
Entries 41
Mean 0.01717
Std Dev 1.1

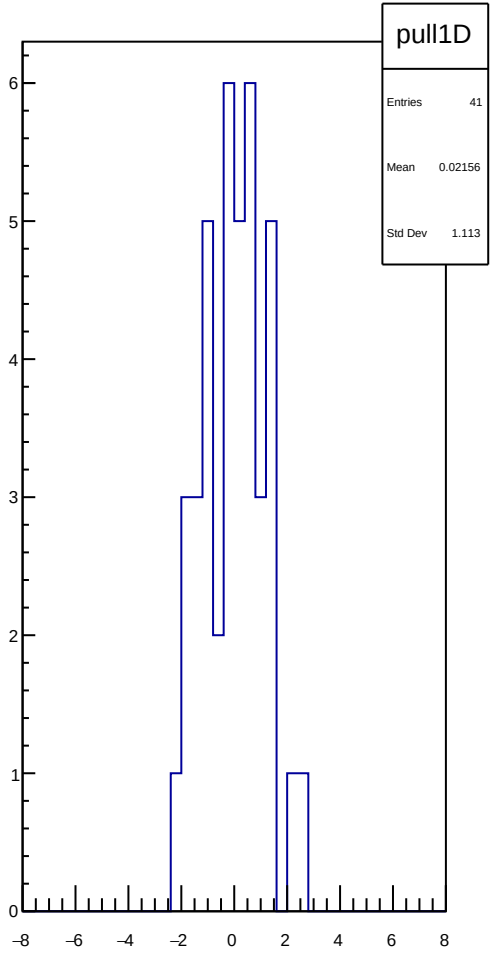

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 5317 / 40
p0 110.9 ± 0.124
160
150
140
130
120
110
100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

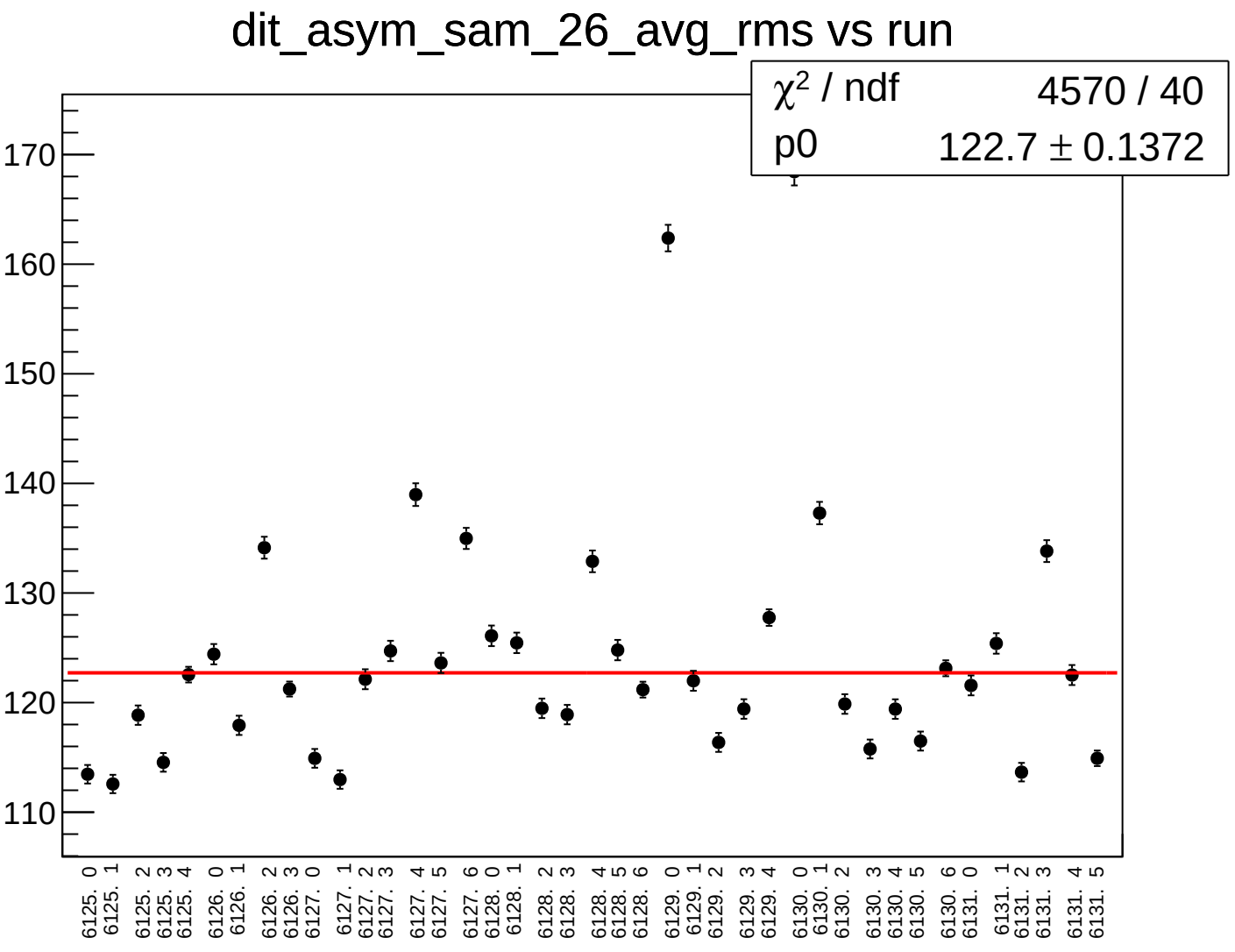

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 36.96 / 40
p0 −1702 ± 1729
pull
Entries 41
Mean −316.8
Std Dev 0

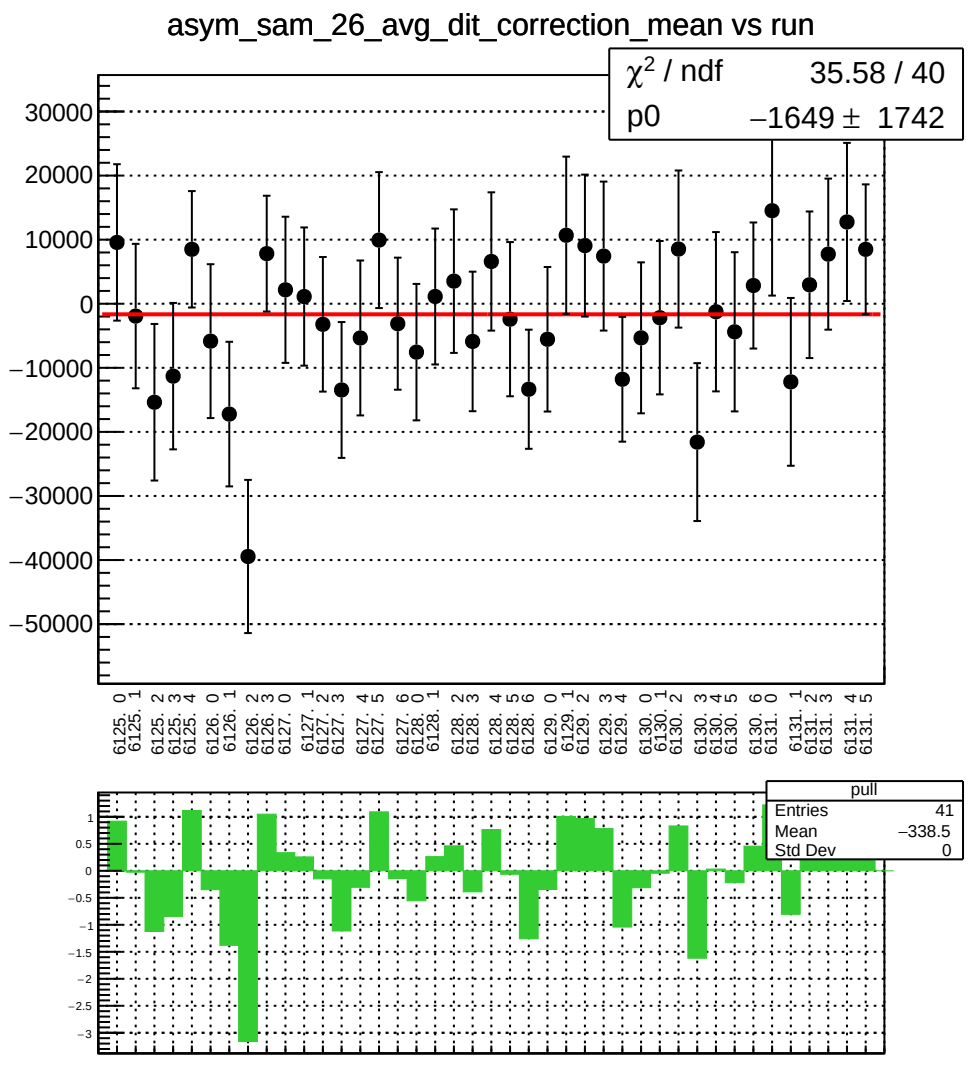

pull1D
Entries 41
Mean −0.008758
Std Dev 0.9494

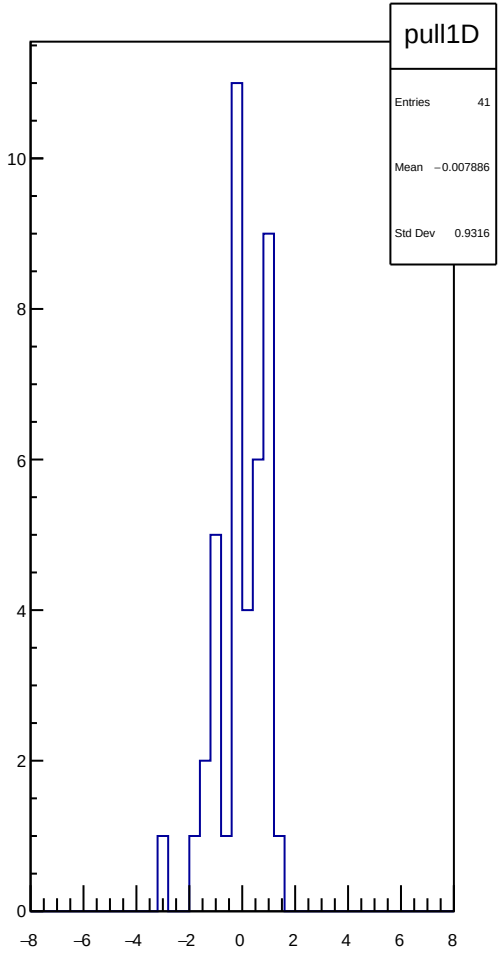

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 3310 / 40
p0 1094 ± 1.223
1250
1200
1150
1100
1050
1000
950
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

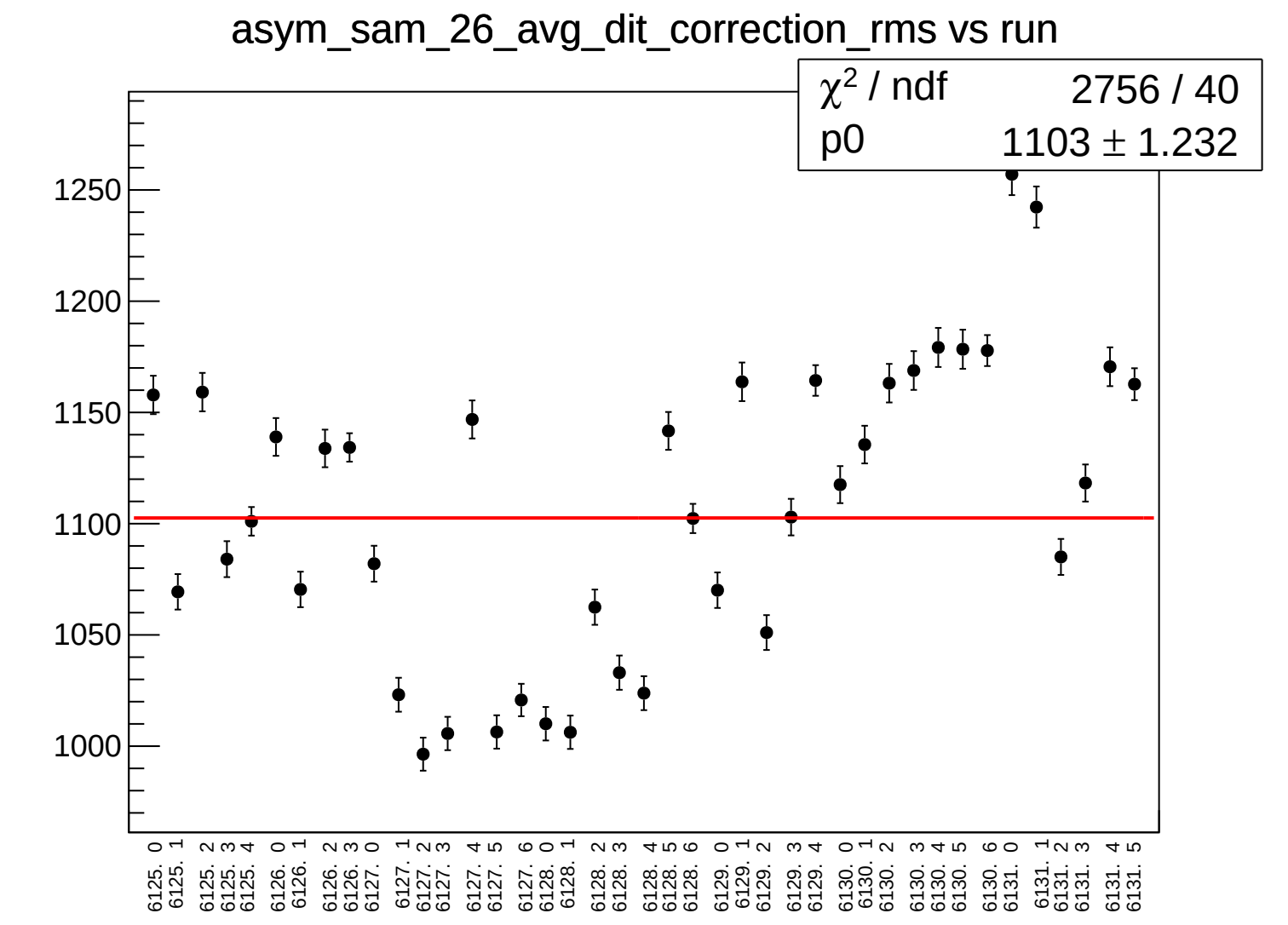

dit_asym_sam_26_avg_mean vs run
χ² / ndf 50.77 / 40
p0 373.2 ± 194.1
6000
4000
2000
0
−2000
−4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −121.1
Std Dev 0
2
1
0
−1
−2

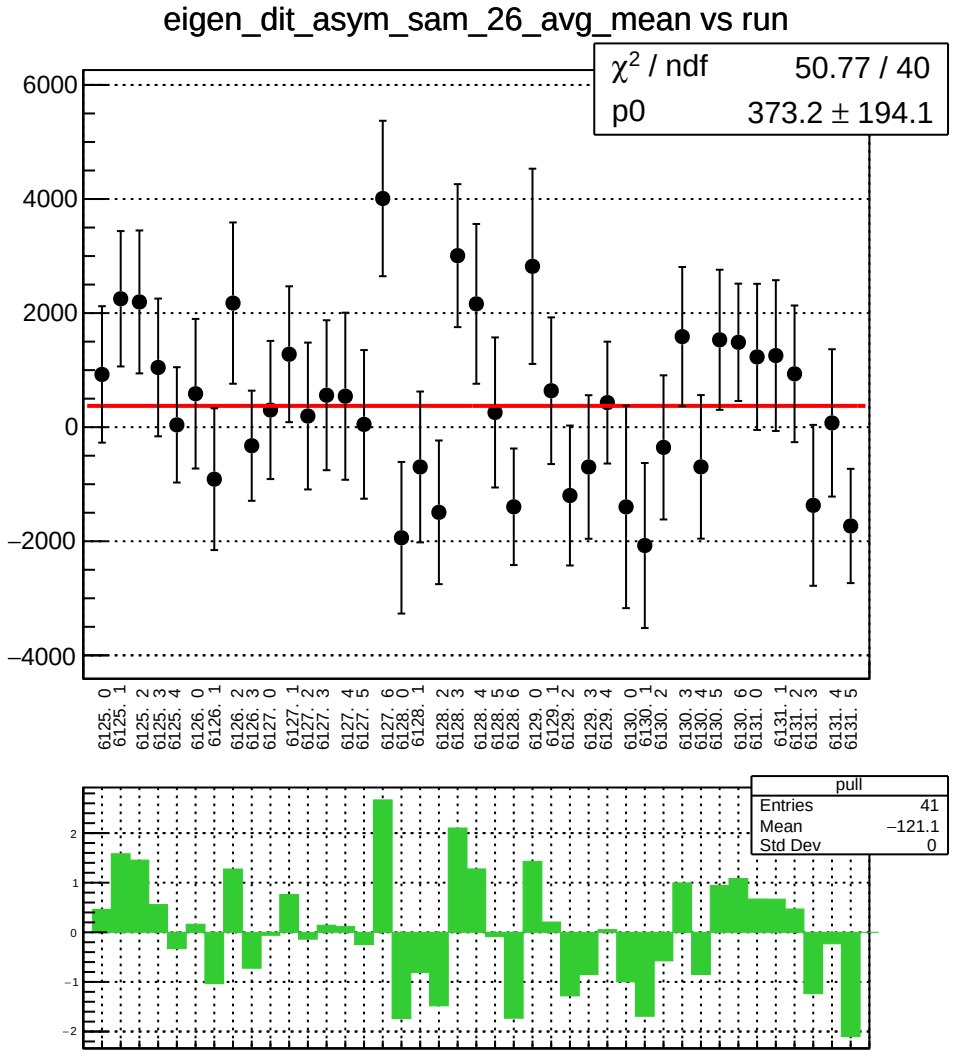

pull1D
Entries 41
Mean 0.02156
Std Dev 1.113
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

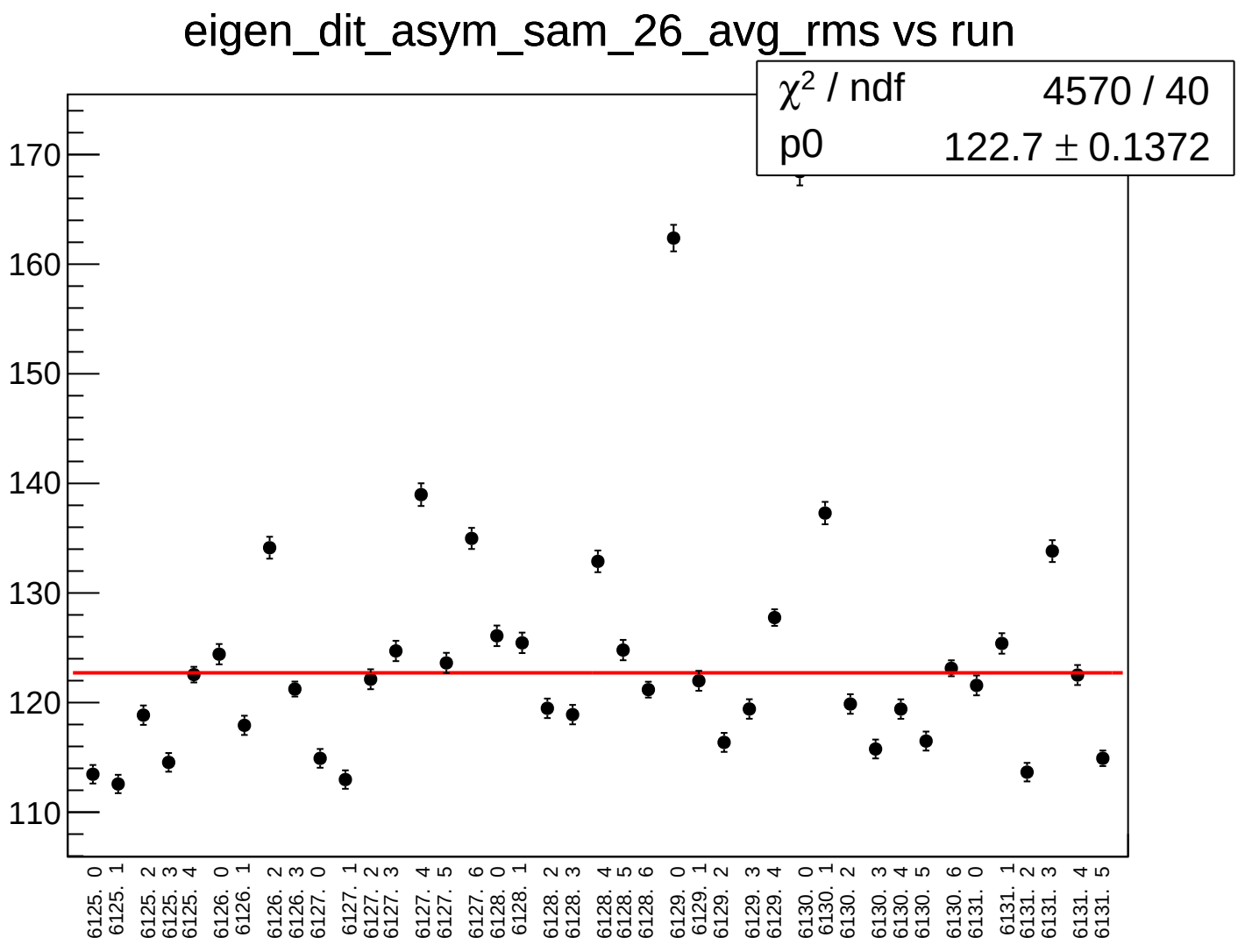

dit_asym_sam_26_avg_rms vs run
χ² / ndf 4570 / 40
p0 122.7 ± 0.1372
170
160
150
140
130
120
110
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

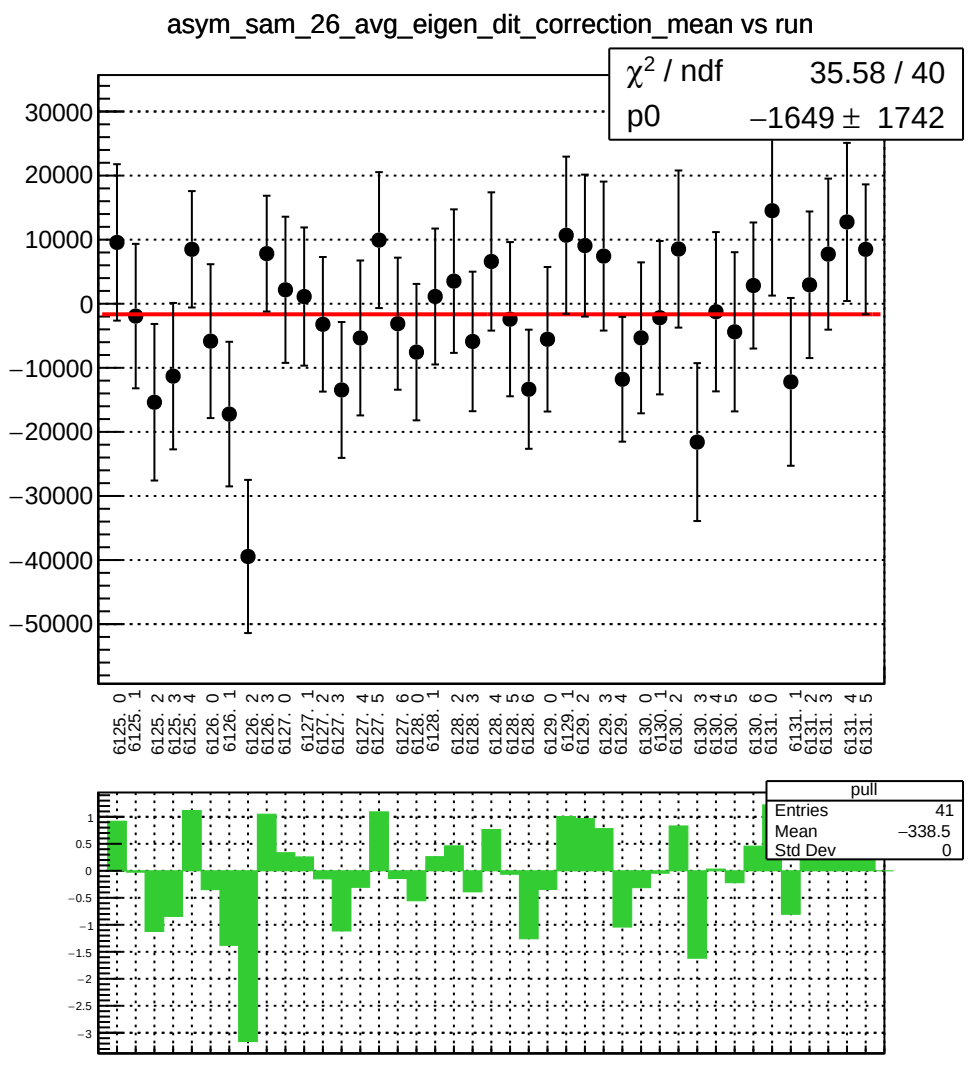

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 35.58 / 40
p0 −1649 ± 1742
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −338.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

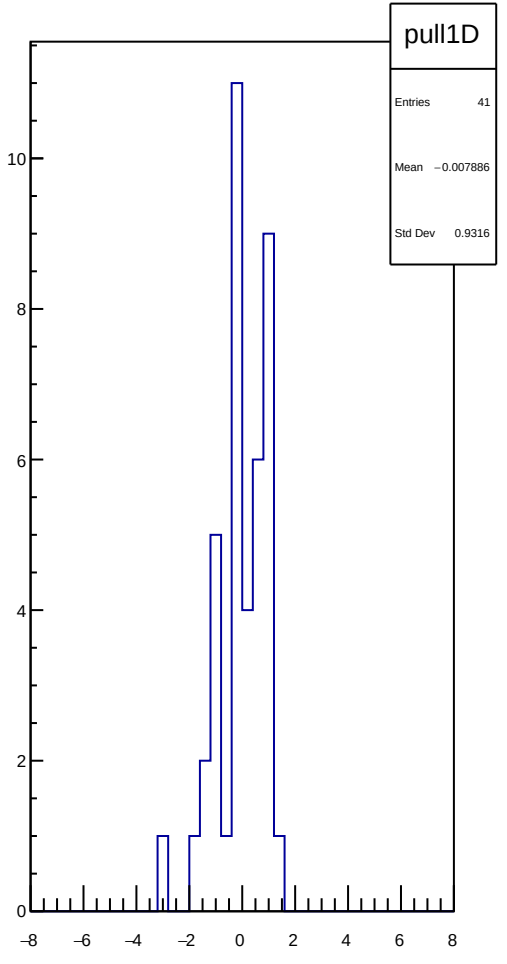

pull1D
Entries 41
Mean −0.007886
Std Dev 0.9316
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

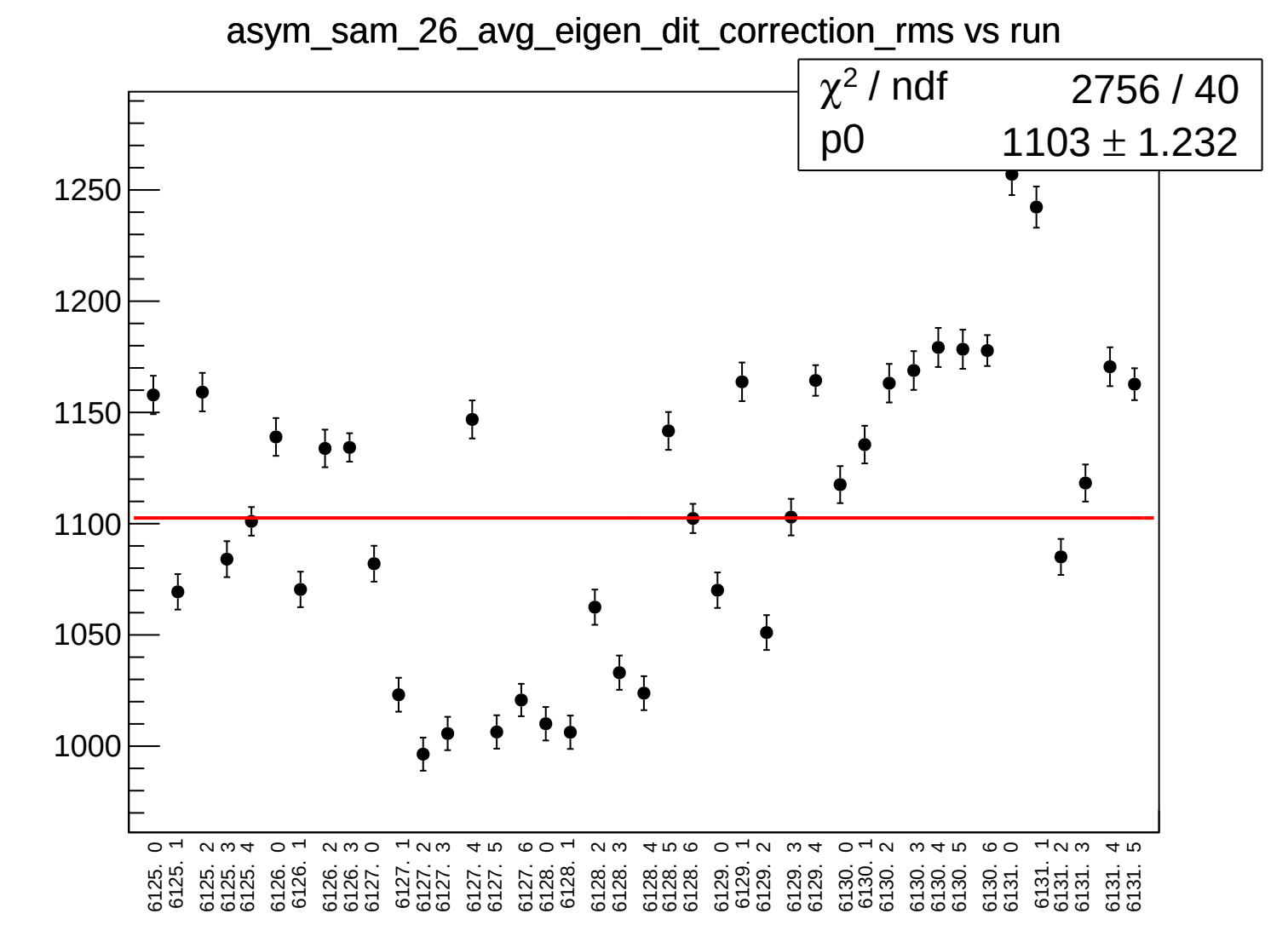

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 2756 / 40
p0 1103 ± 1.232
1250
1200
1150
1100
1050
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

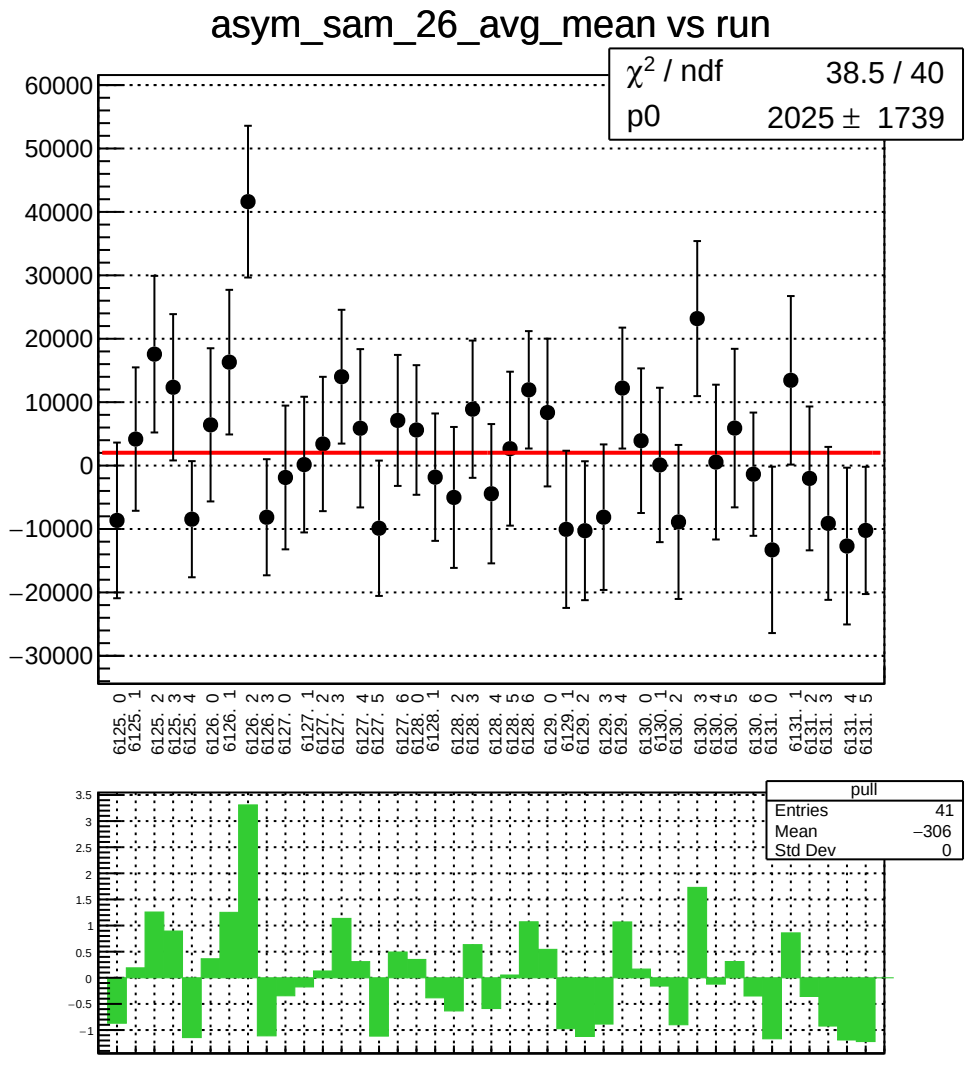

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 50.77 / 40
p0 373.2 ± 194.1
6000
4000
2000
0
−2000
−4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −121.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.02155
Std Dev 1.113
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

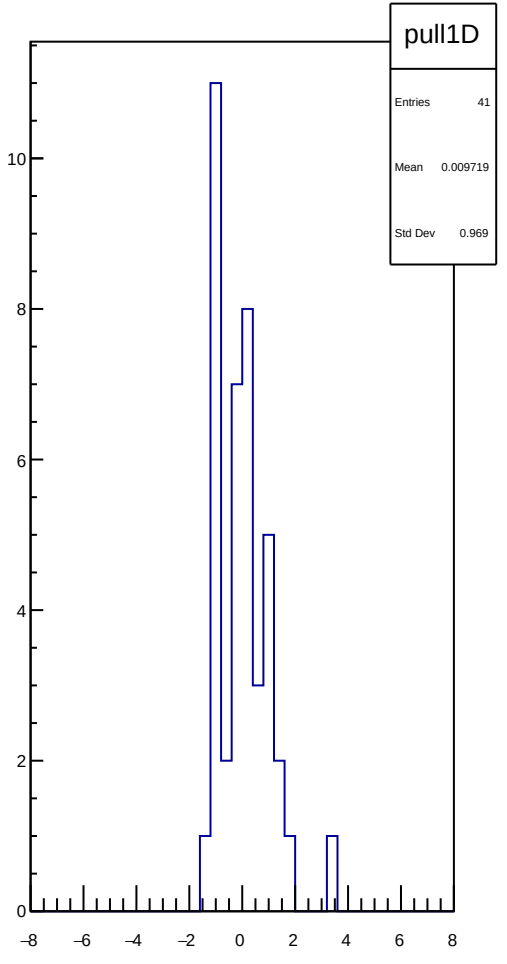

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 4570 / 40
p0 122.7 ± 0.1372
170
160
150
140
130
120
110
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

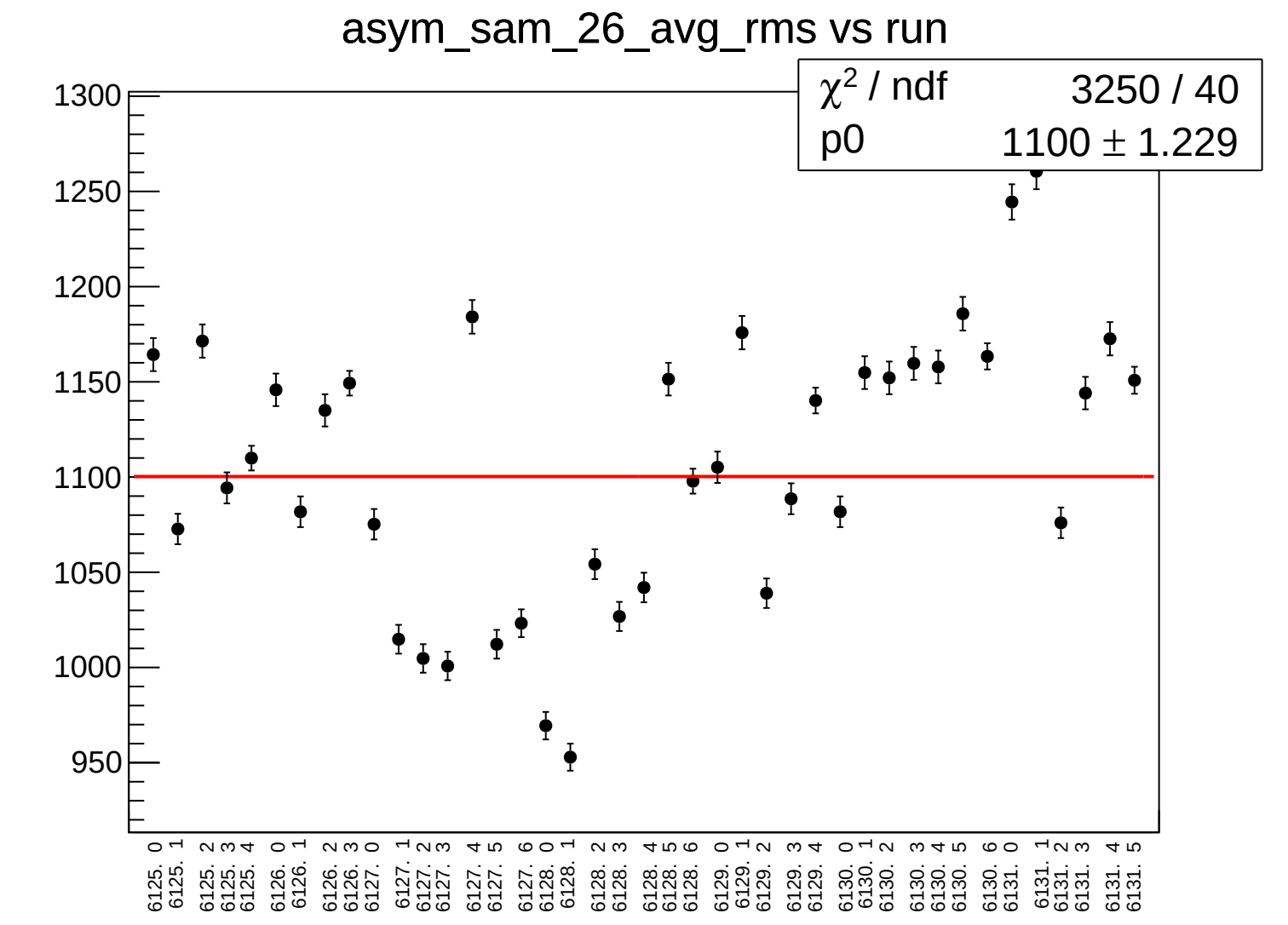

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 35.58 / 40
p0 −1649 ± 1742
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −338.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

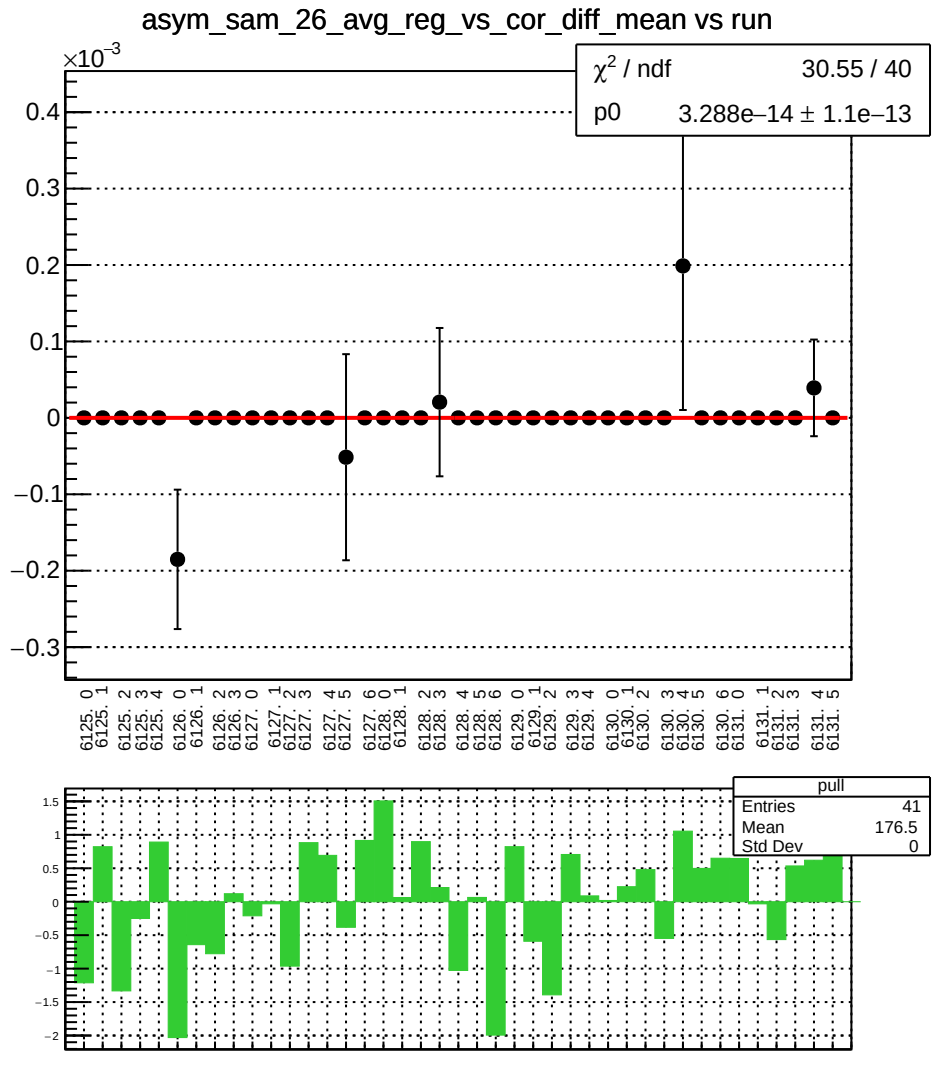

pull1D
Entries 41
Mean −0.007886
Std Dev 0.9316
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

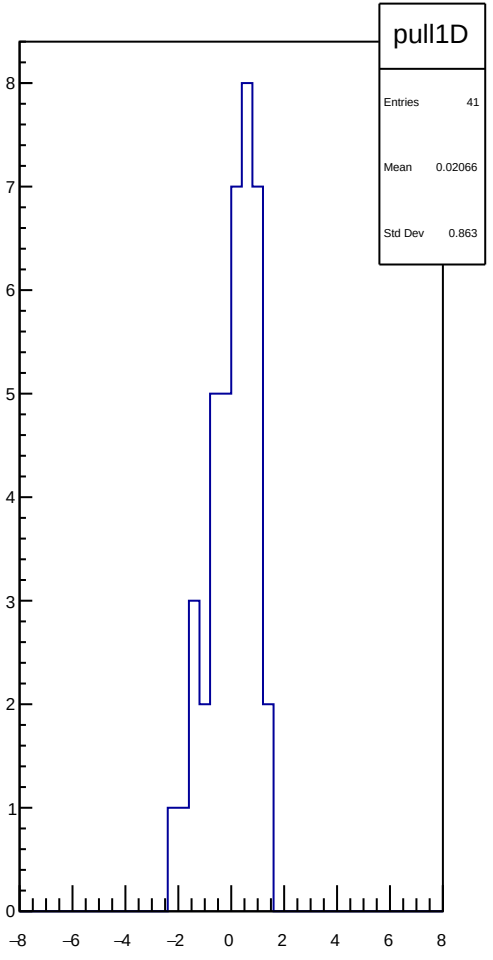

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 2756 / 40
p0 1103 ± 1.232
1250
1200
1150
1100
1050
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

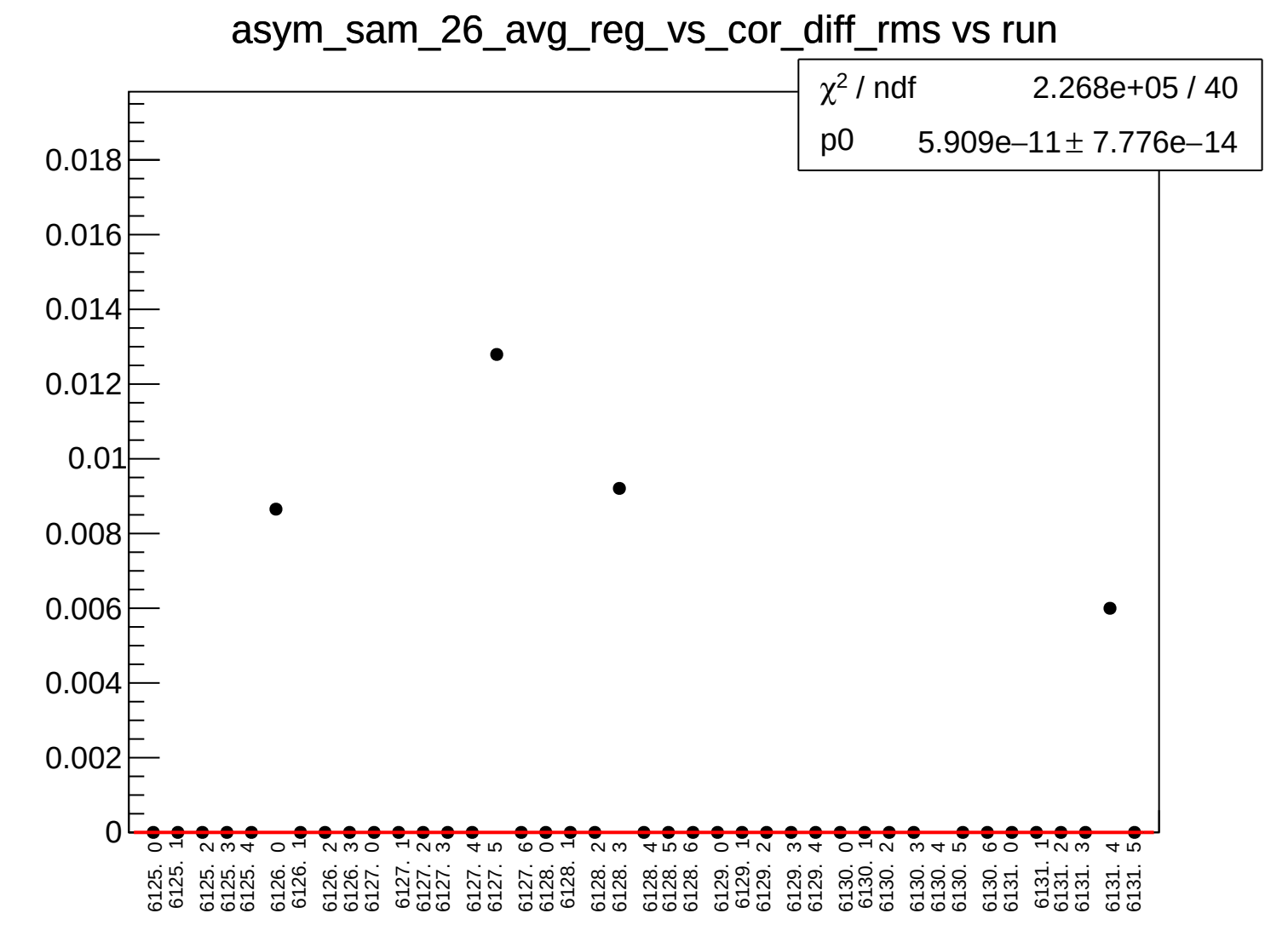

asym_sam_26_avg_mean vs run
χ² / ndf 38.5 / 40
p0 2025 ± 1739
pull
Entries 41
Mean −306
Std Dev 0

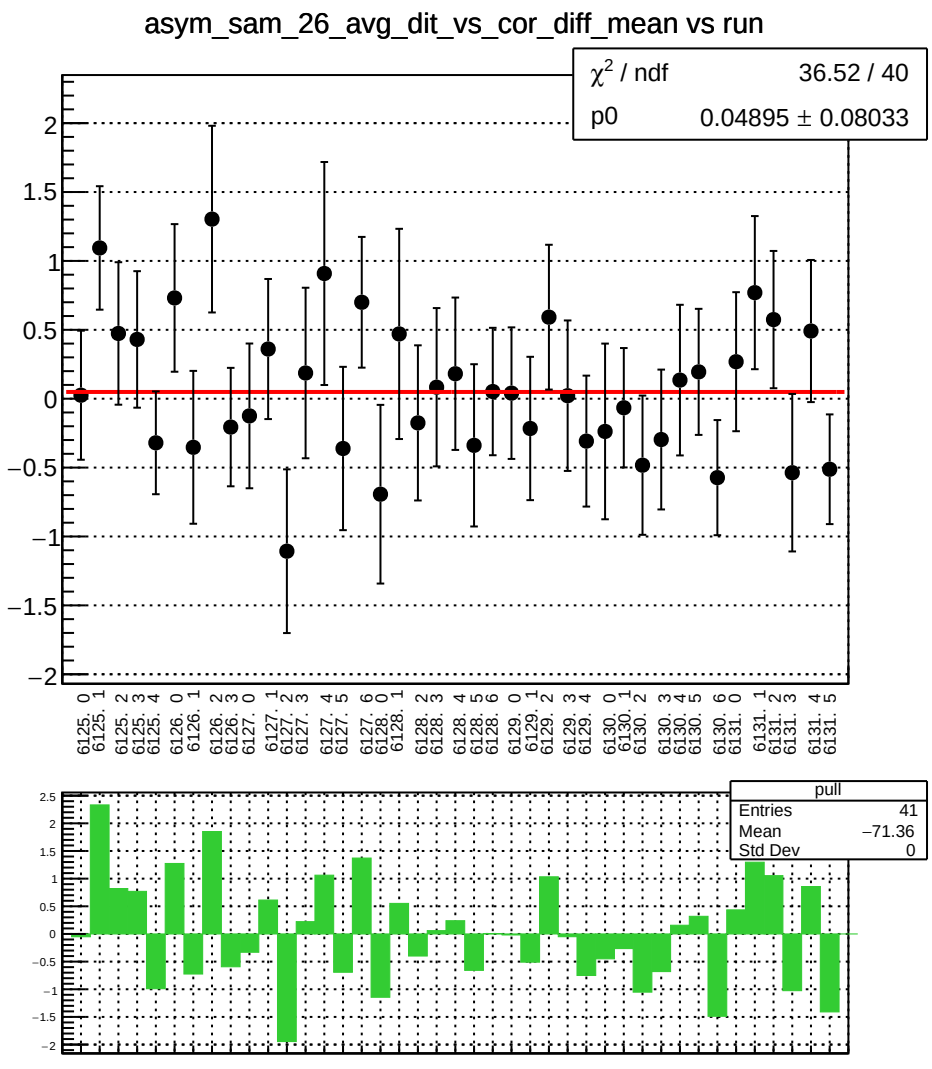

pull1D
Entries 41
Mean 0.009719
Std Dev 0.969

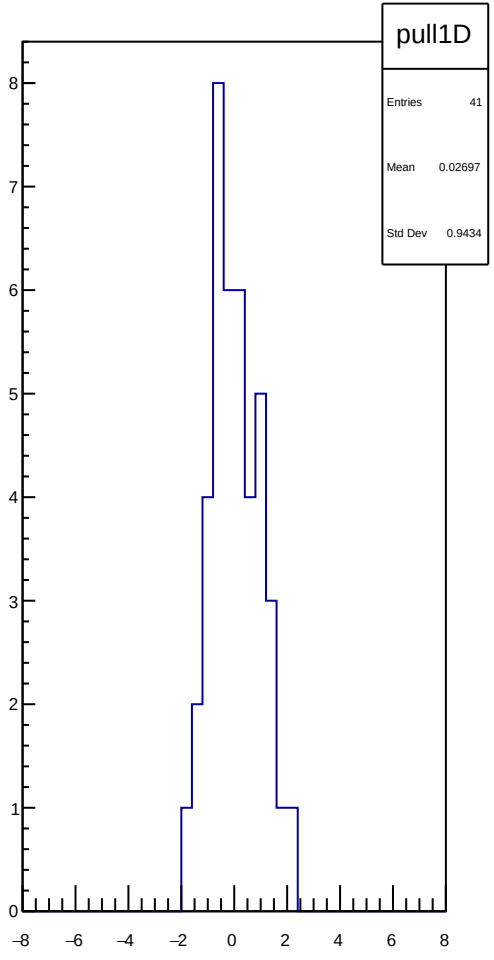

asym_sam_26_avg_rms vs run
χ² / ndf 3250 / 40
p0 1100 ± 1.229
1300
1250
1200
1150
1100
1050
1000
950
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

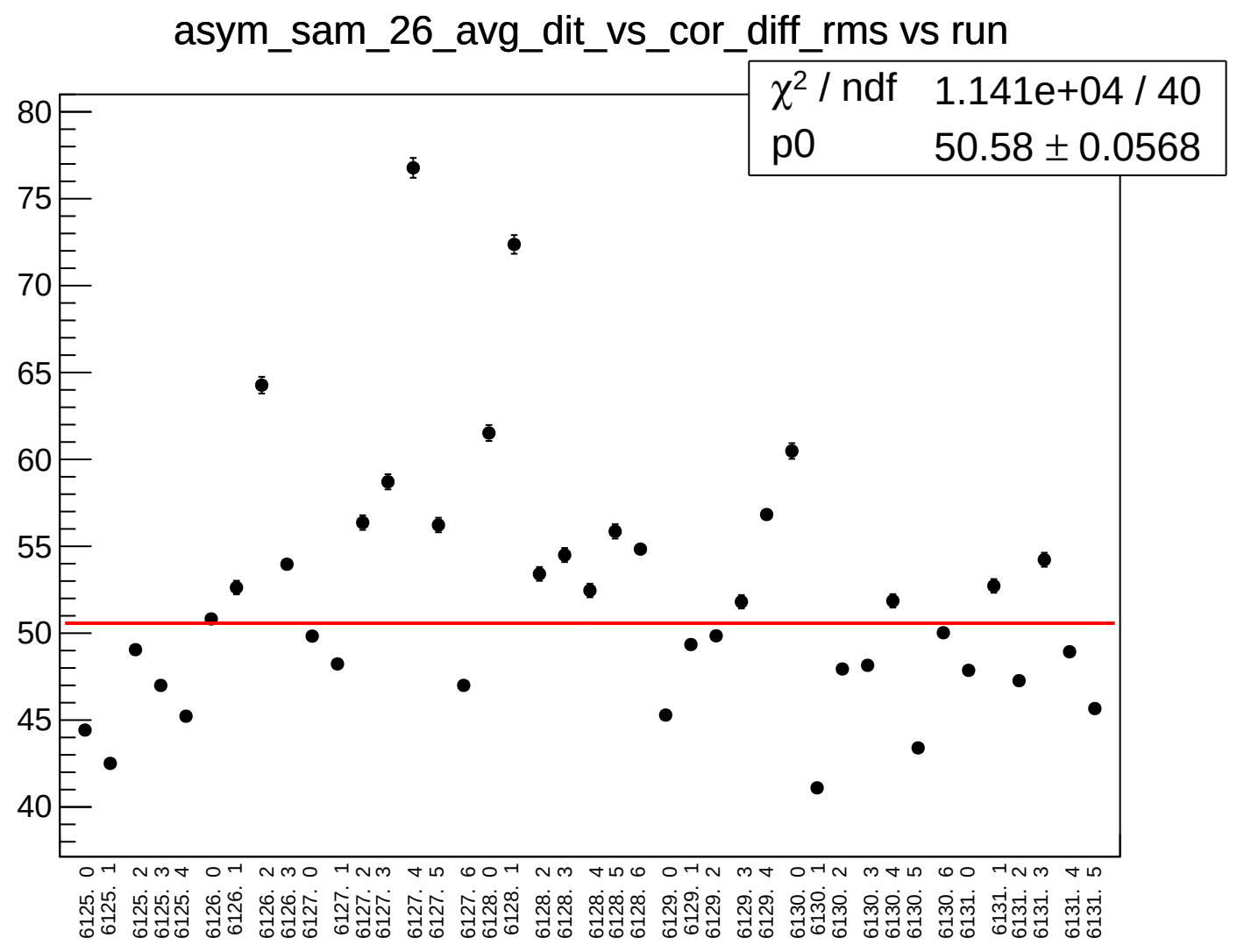

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 30.55 / 40
p0 3.288e−14 ± 1.1e−13
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 176.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

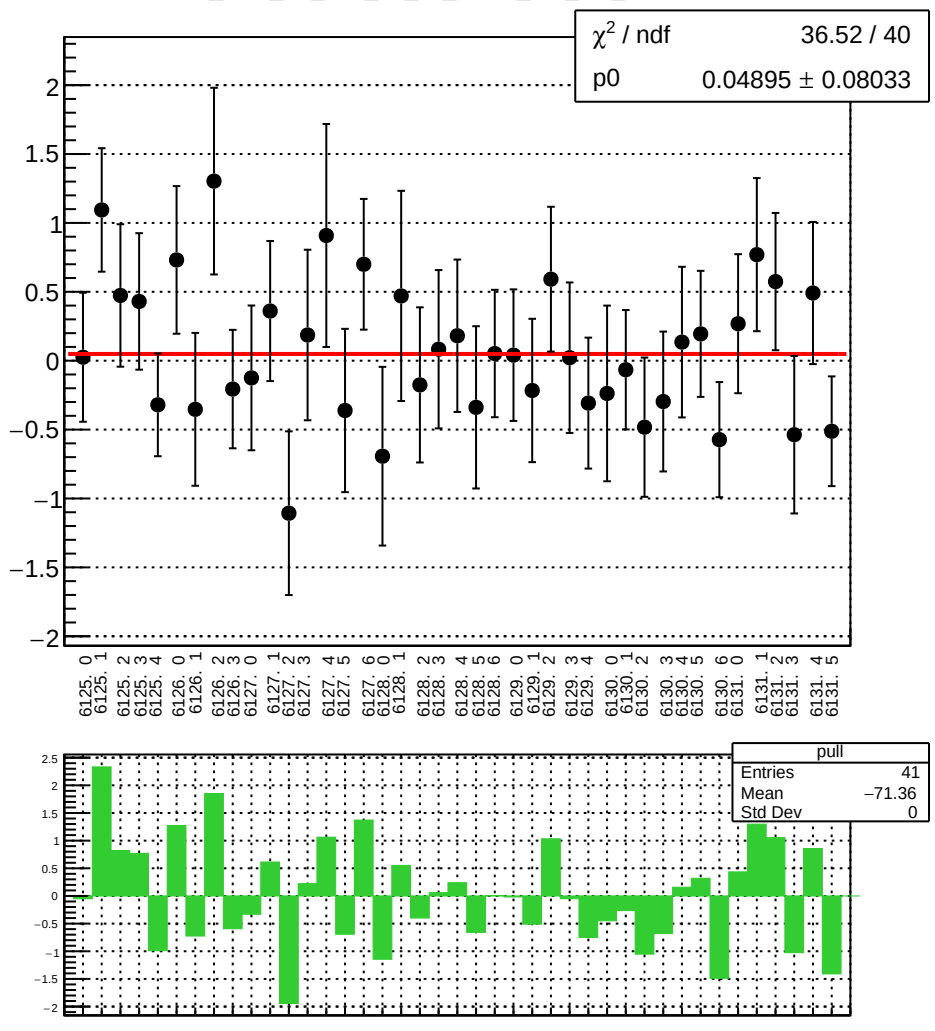

pull1D
Entries 41
Mean 0.02066
Std Dev 0.863
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

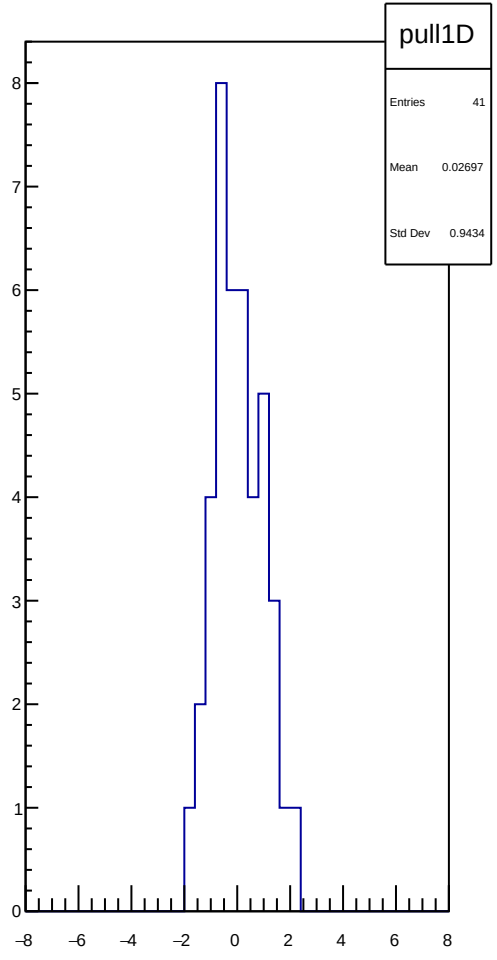

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.268e+05 / 40
p0 5.909e−11 ± 7.776e−14
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

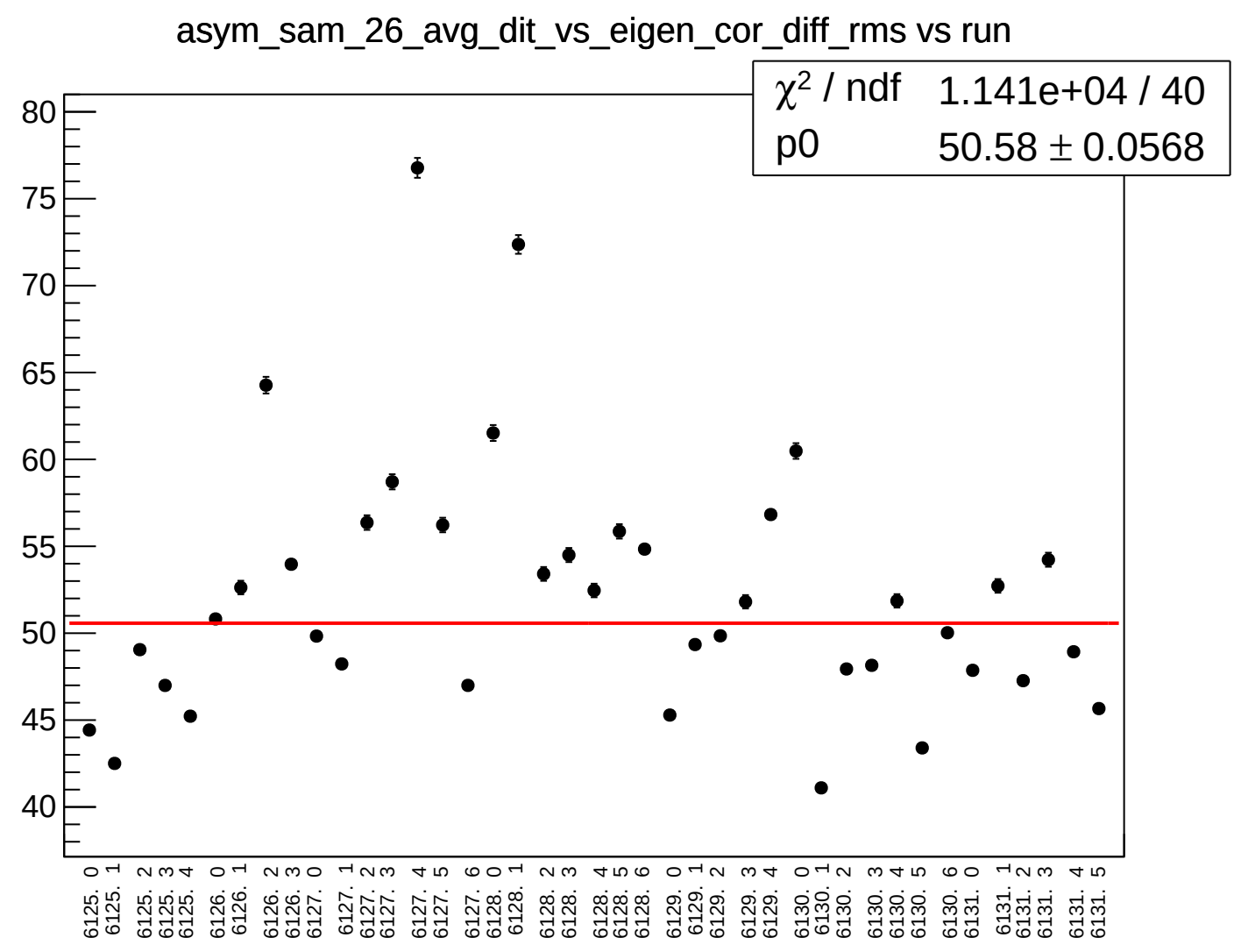

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 36.52 / 40
p0 0.04895 ± 0.08033
pull
Entries 41
Mean −71.36
Std Dev 0

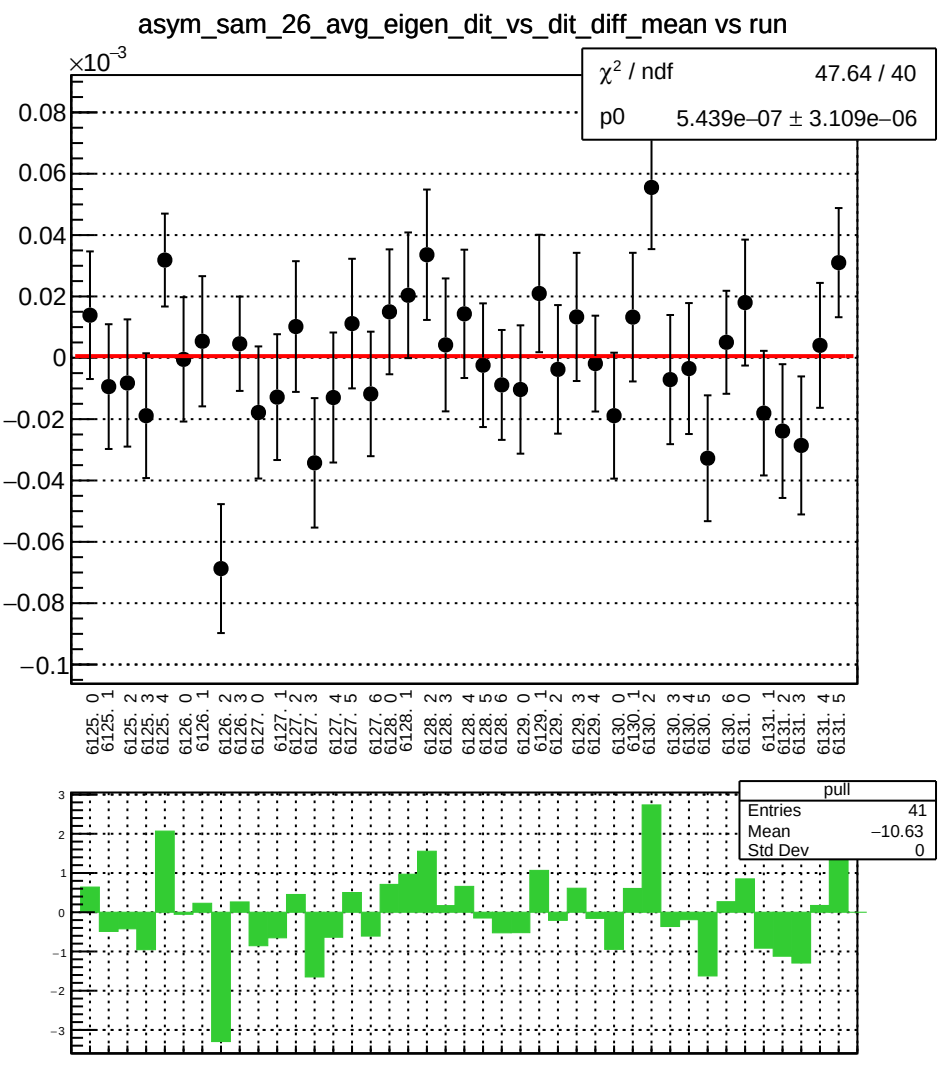

pull1D
Entries 41
Mean 0.02697
Std Dev 0.9434

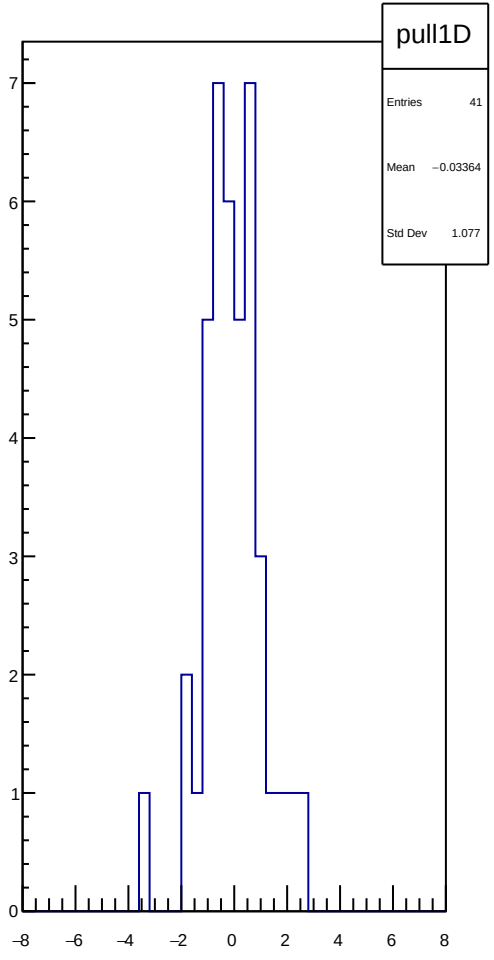

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.141e+04 / 40
p0 50.58 ± 0.0568
80
75
70
65
60
55
50
45
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

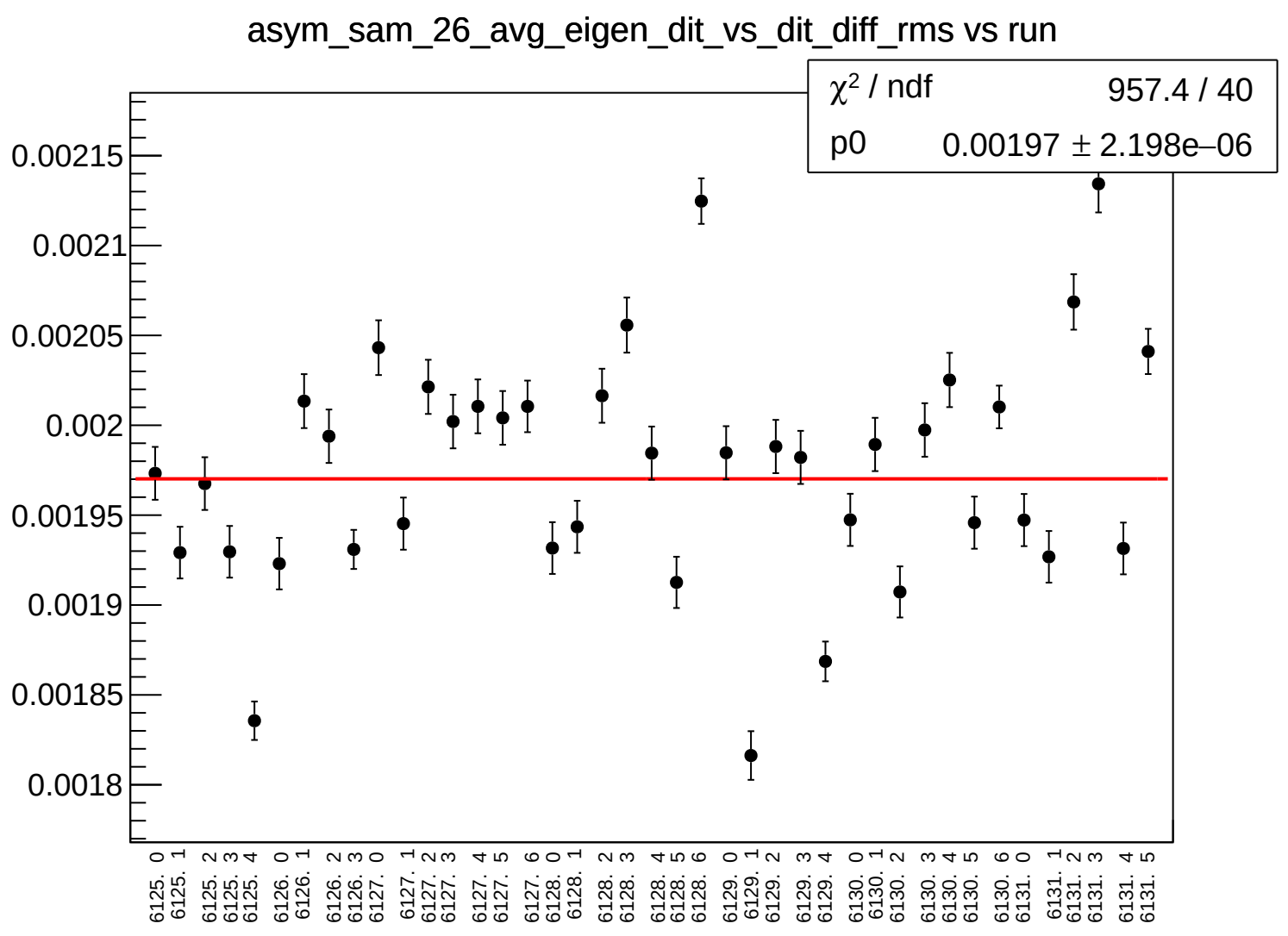

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.52 / 40
p0 0.04895 ± 0.08033
pull
Entries 41
Mean −71.36
Std Dev 0

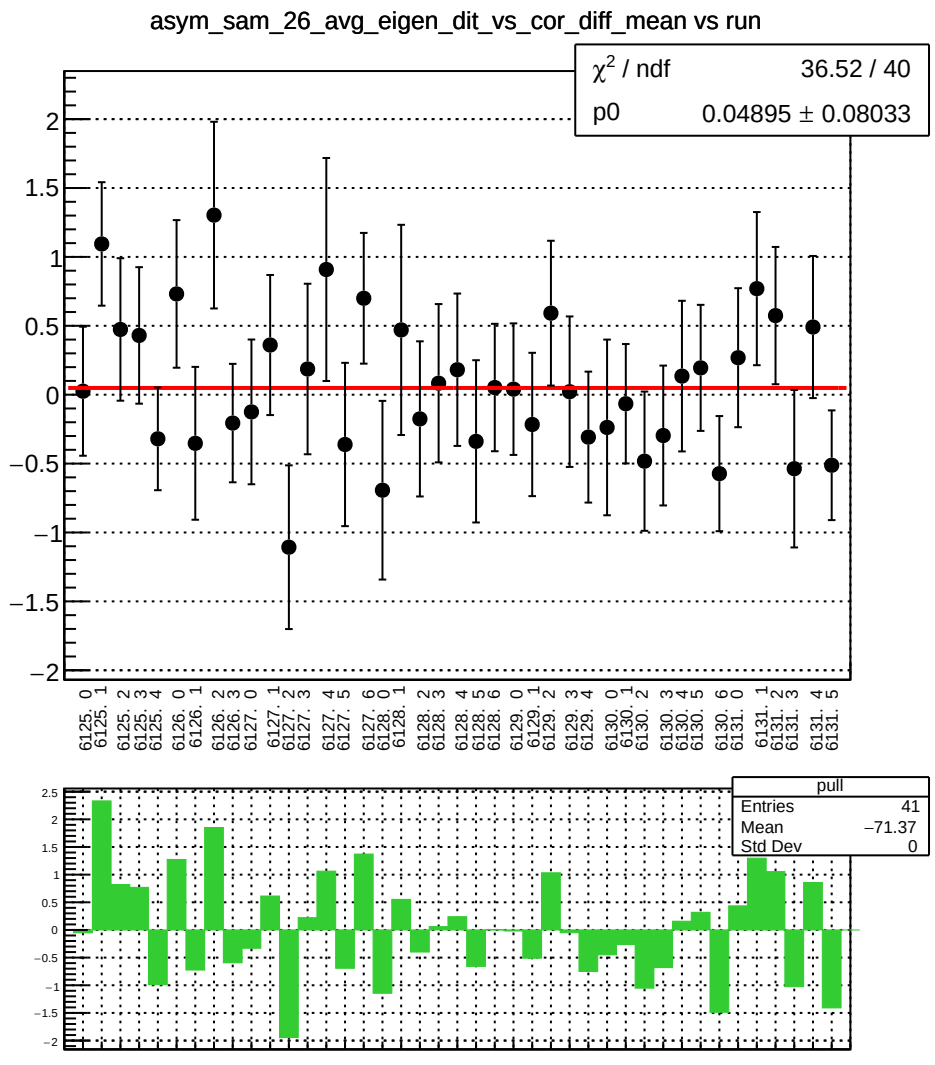

pull1D
Entries 41
Mean 0.02697
Std Dev 0.9434

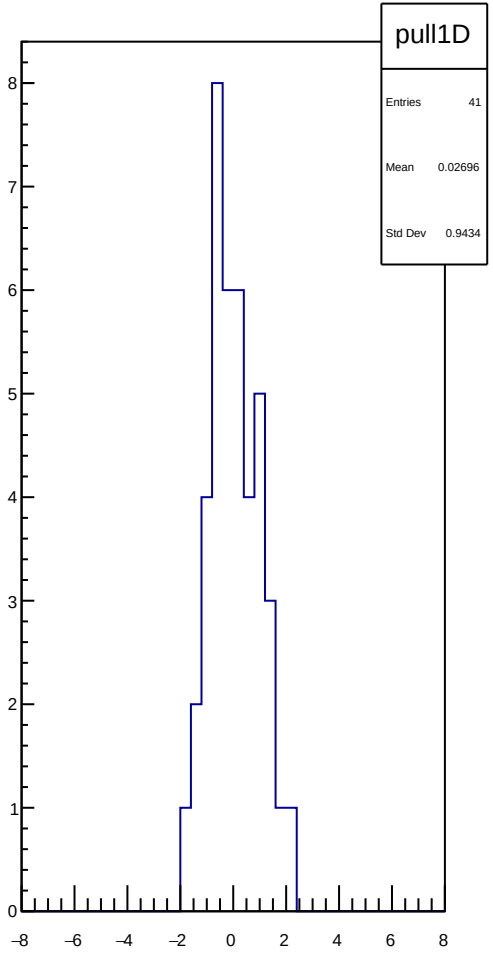

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.141e+04 / 40
p0 50.58 ± 0.0568
80
75
70
65
60
55
50
45
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

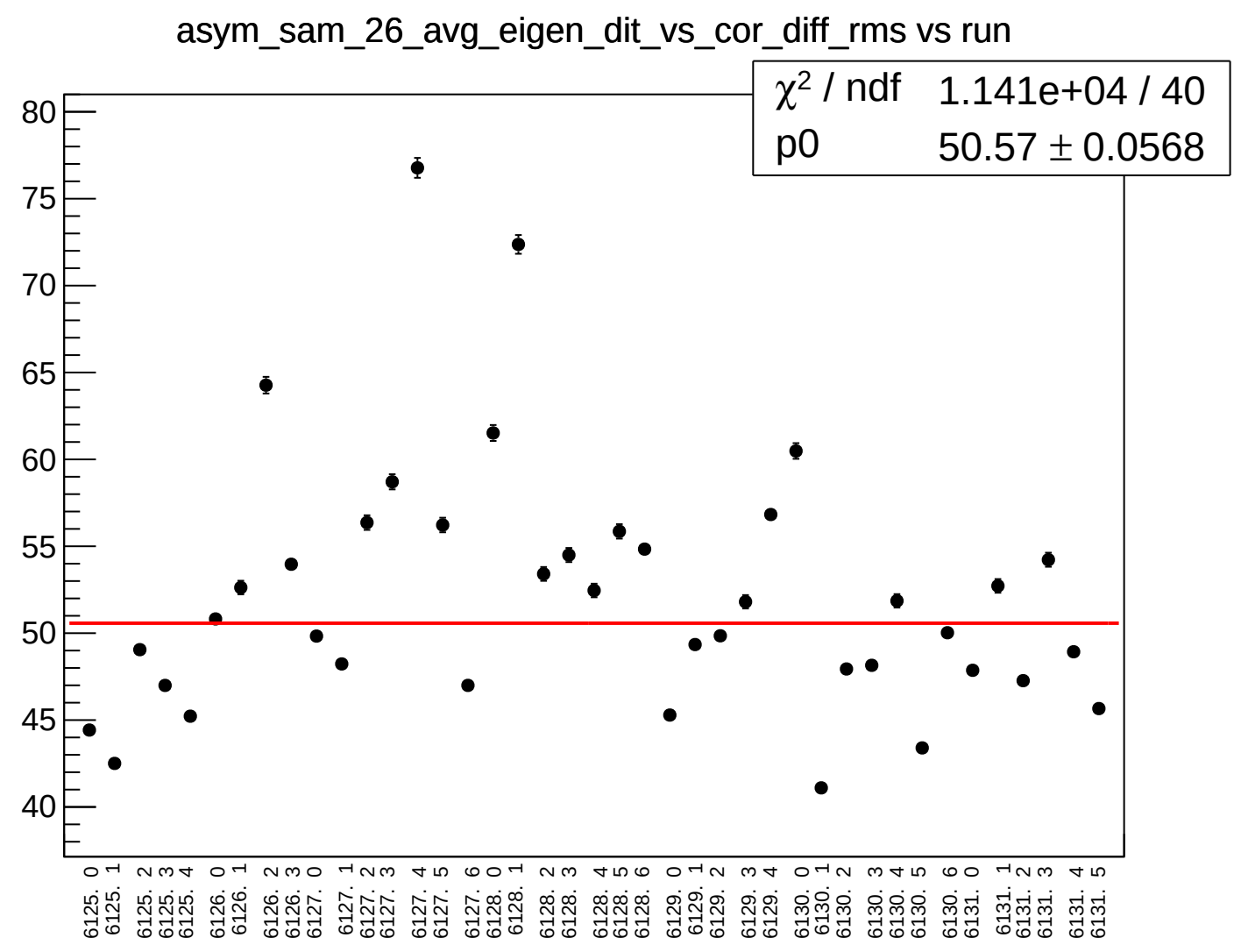

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 47.64 / 40
p0 5.439e−07 ± 3.109e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −10.63
Std Dev 0
3
2
1
0
−1
−2
−3

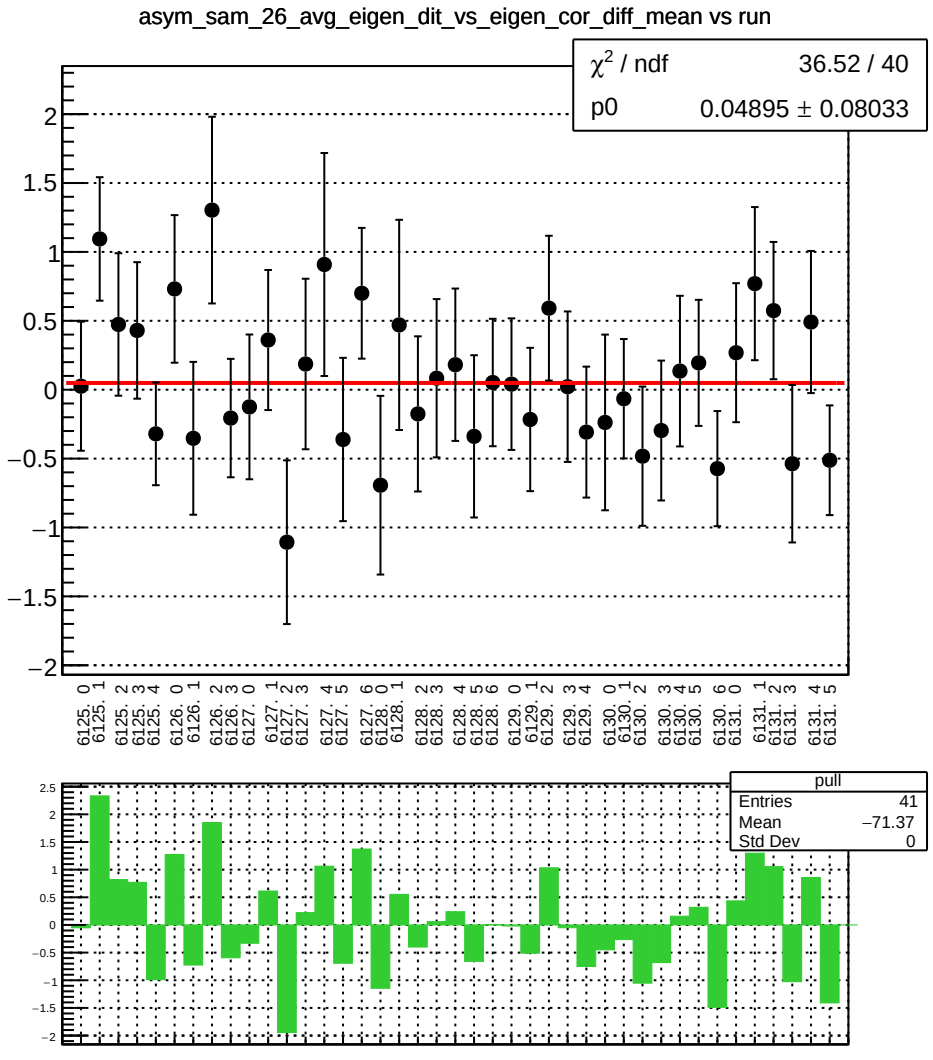

pull1D
Entries 41
Mean −0.03364
Std Dev 1.077
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

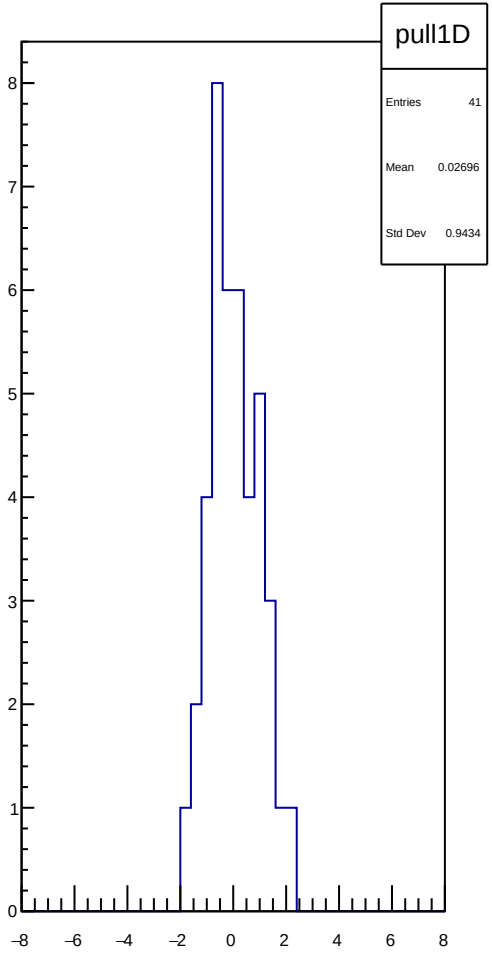

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 957.4 / 40
p0 0.00197 ± 2.198e–06
0.00215
0.0021
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

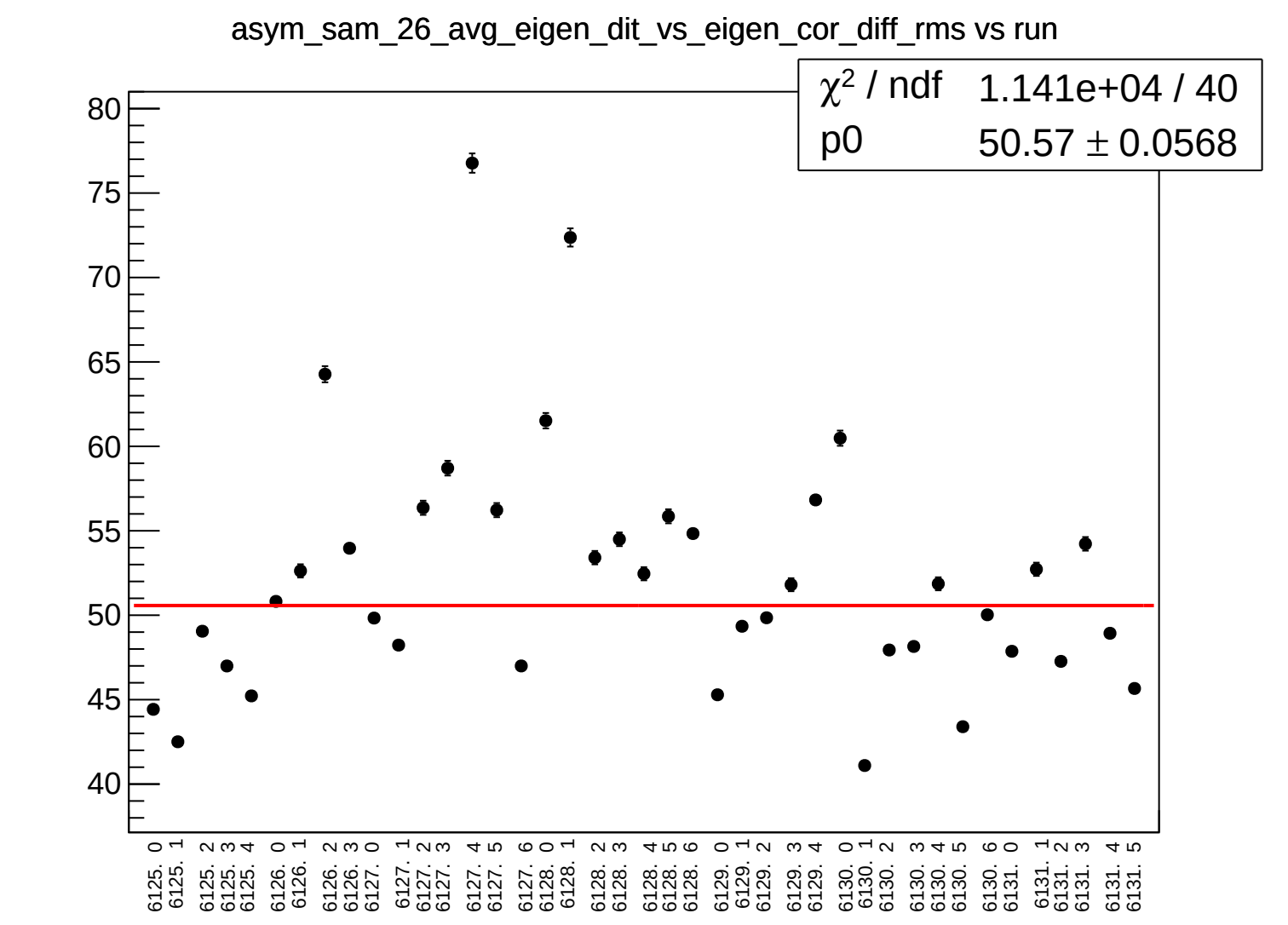

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.52 / 40
p0 0.04895 ± 0.08033
pull
Entries 41
Mean −71.37
Std Dev 0

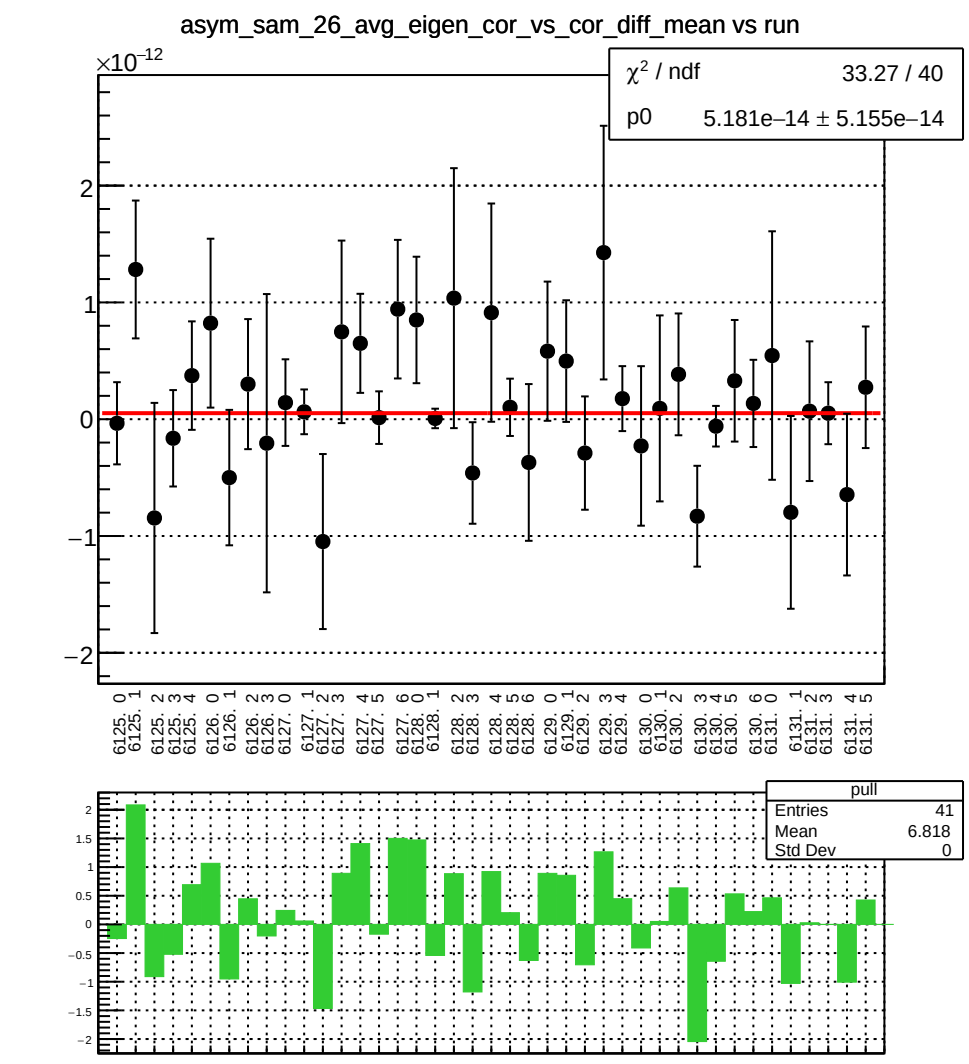

pull1D
Entries 41
Mean 0.02696
Std Dev 0.9434

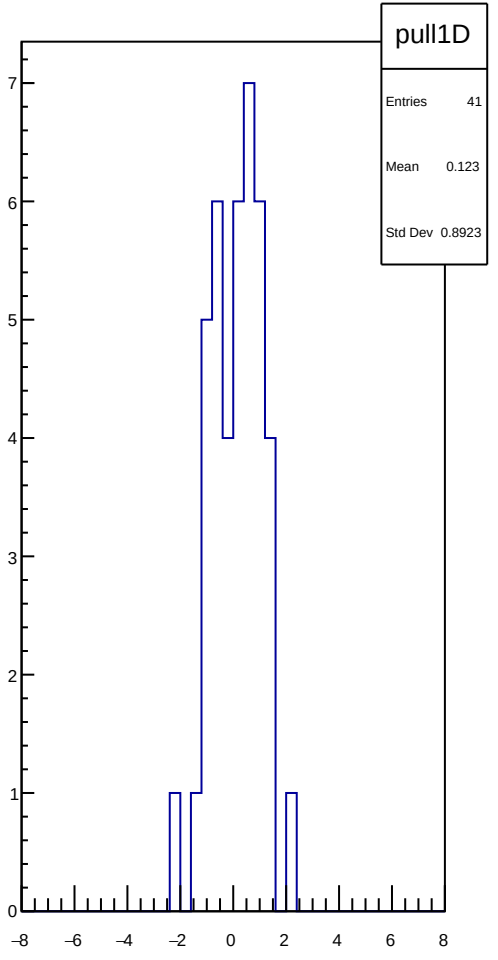

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.141e+04 / 40
p0 50.57 ± 0.0568
80
75
70
65
60
55
50
45
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

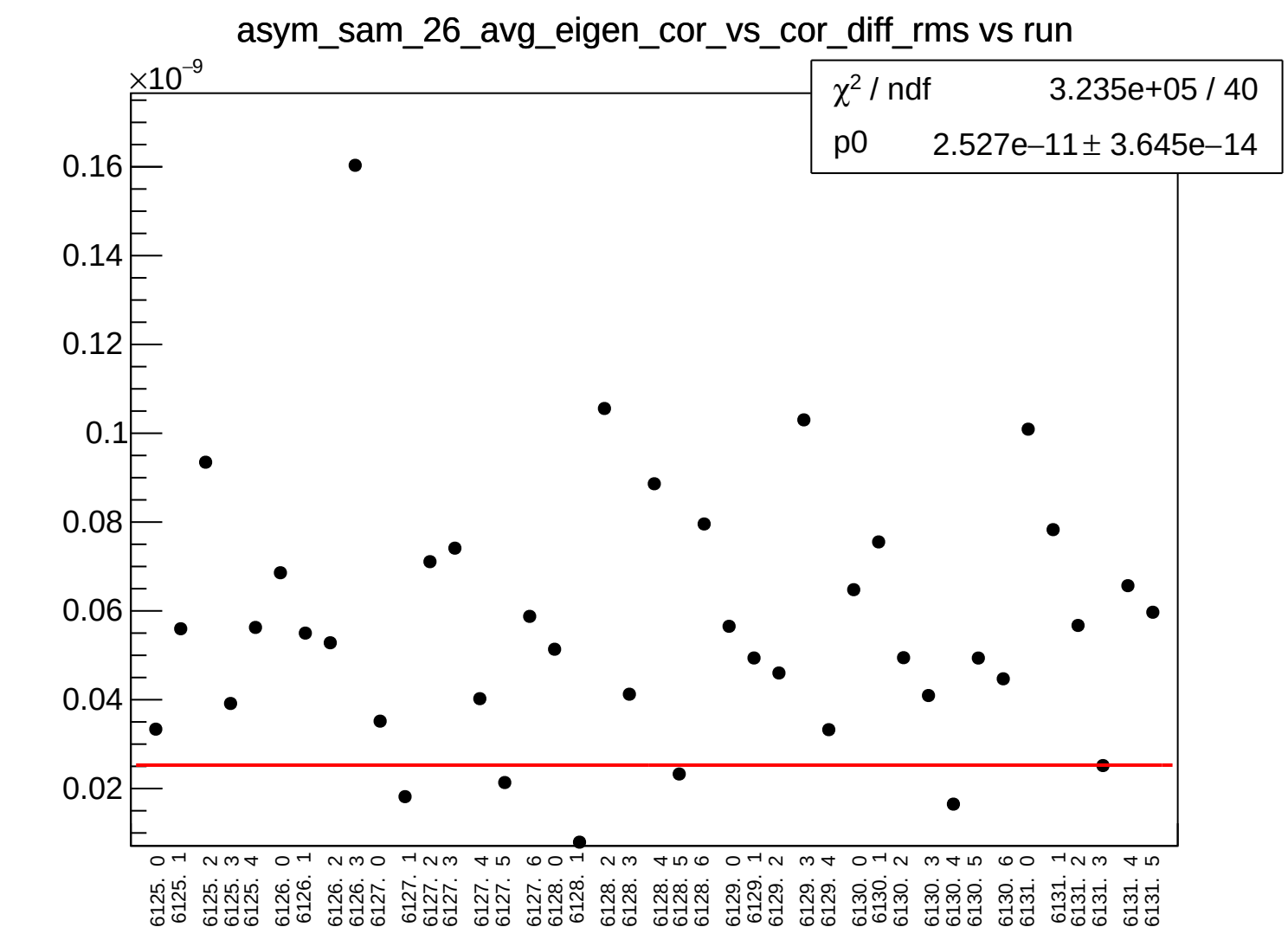

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.52 / 40
p0 0.04895 ± 0.08033
pull
Entries 41
Mean −71.37
Std Dev 0

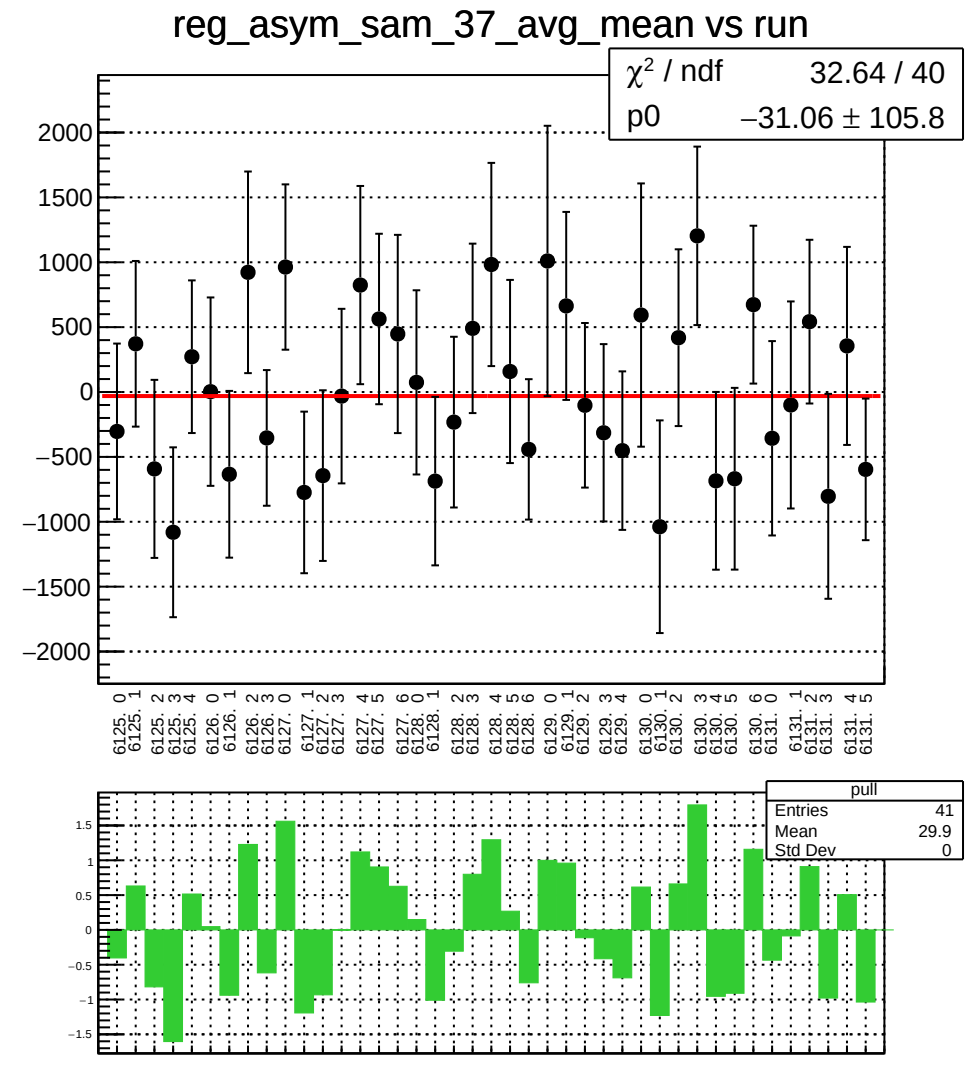

pull1D
Entries 41
Mean 0.02696
Std Dev 0.9434

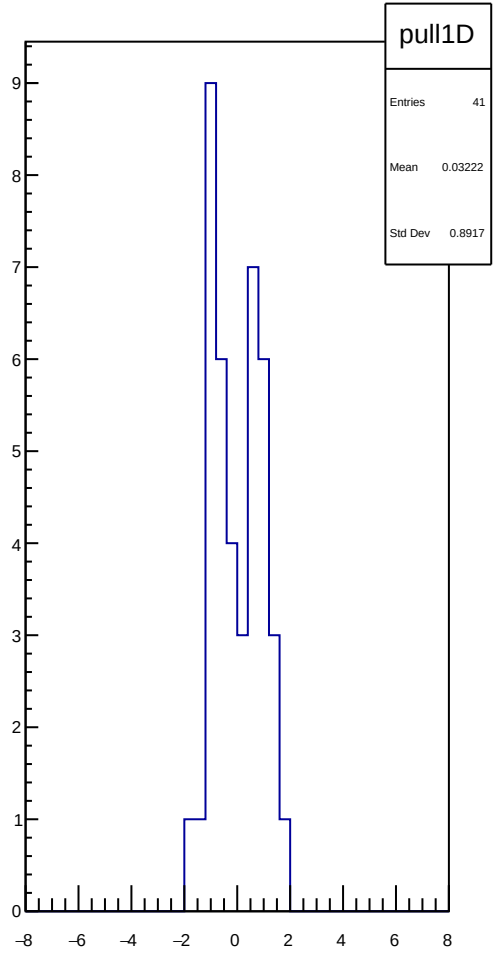

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.141e+04 / 40
p0 50.57 ± 0.0568
80
75
70
65
60
55
50
45
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

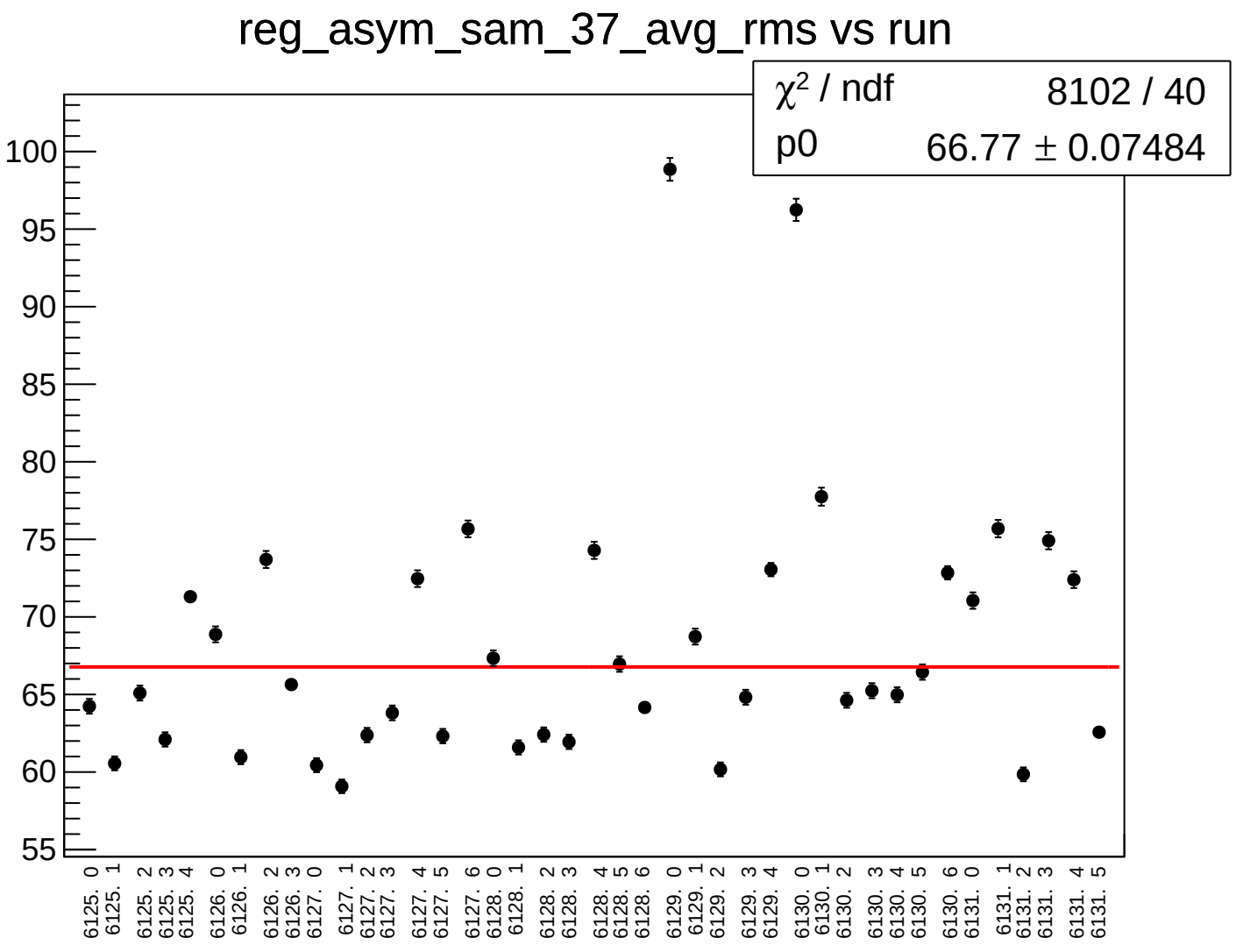

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.27 / 40
p0 5.181e−14 ± 5.155e−14
pull
Entries 41
Mean 6.818
Std Dev 0

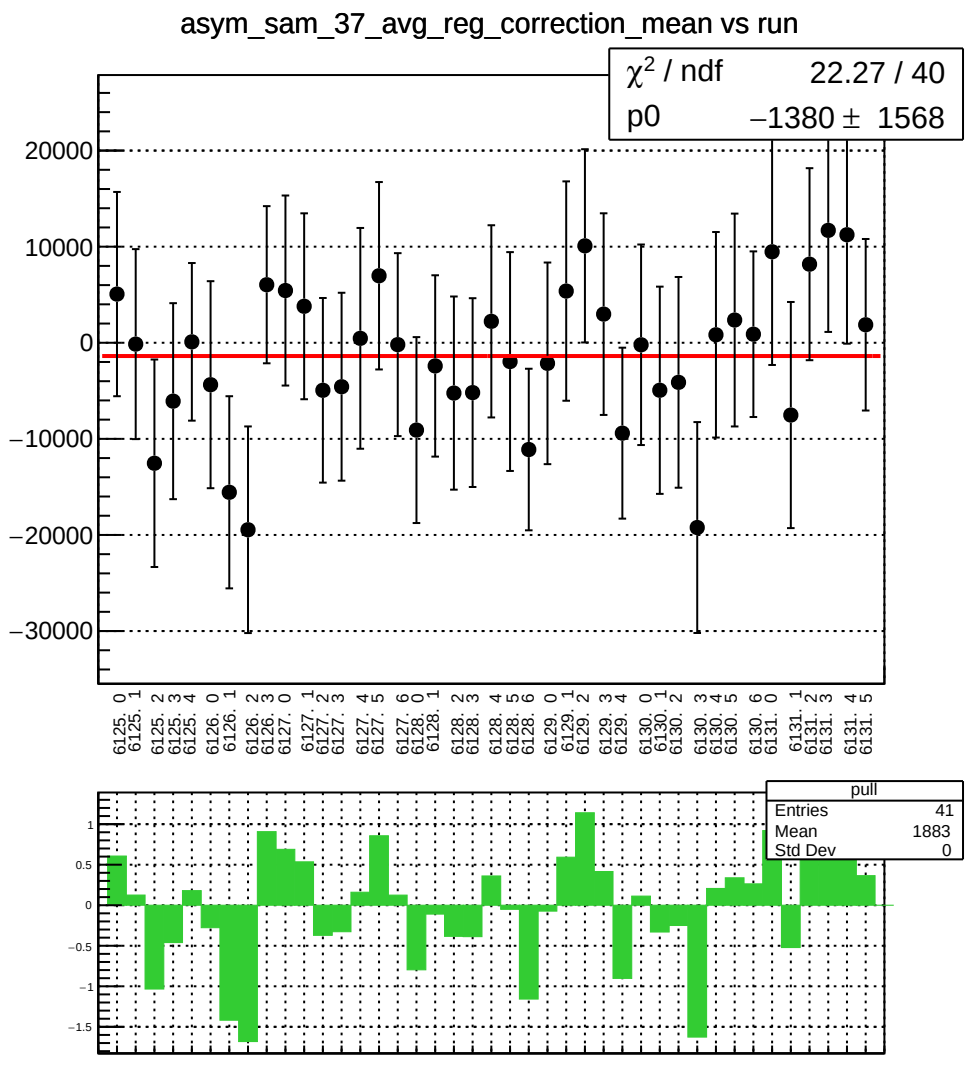

pull1D
Entries 41
Mean 0.123
Std Dev 0.8923

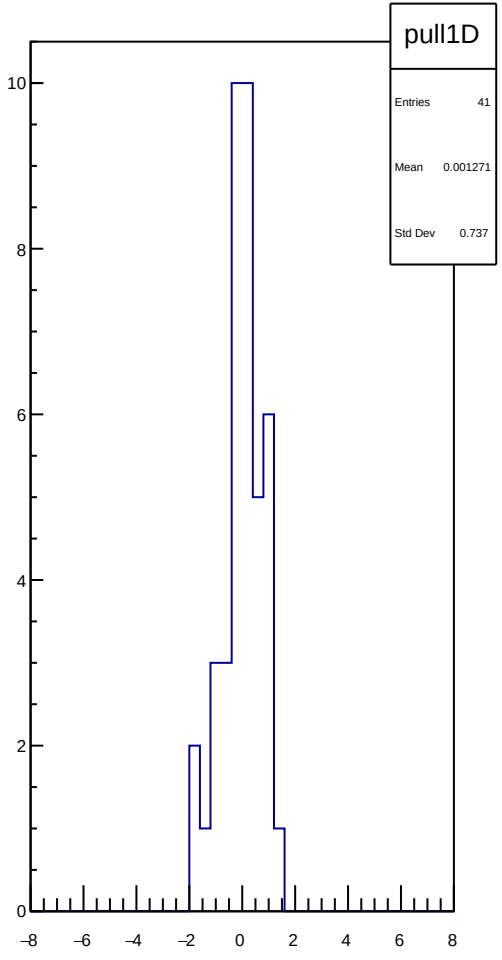

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.235e+05 / 40
p0 2.527e−11 ± 3.645e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

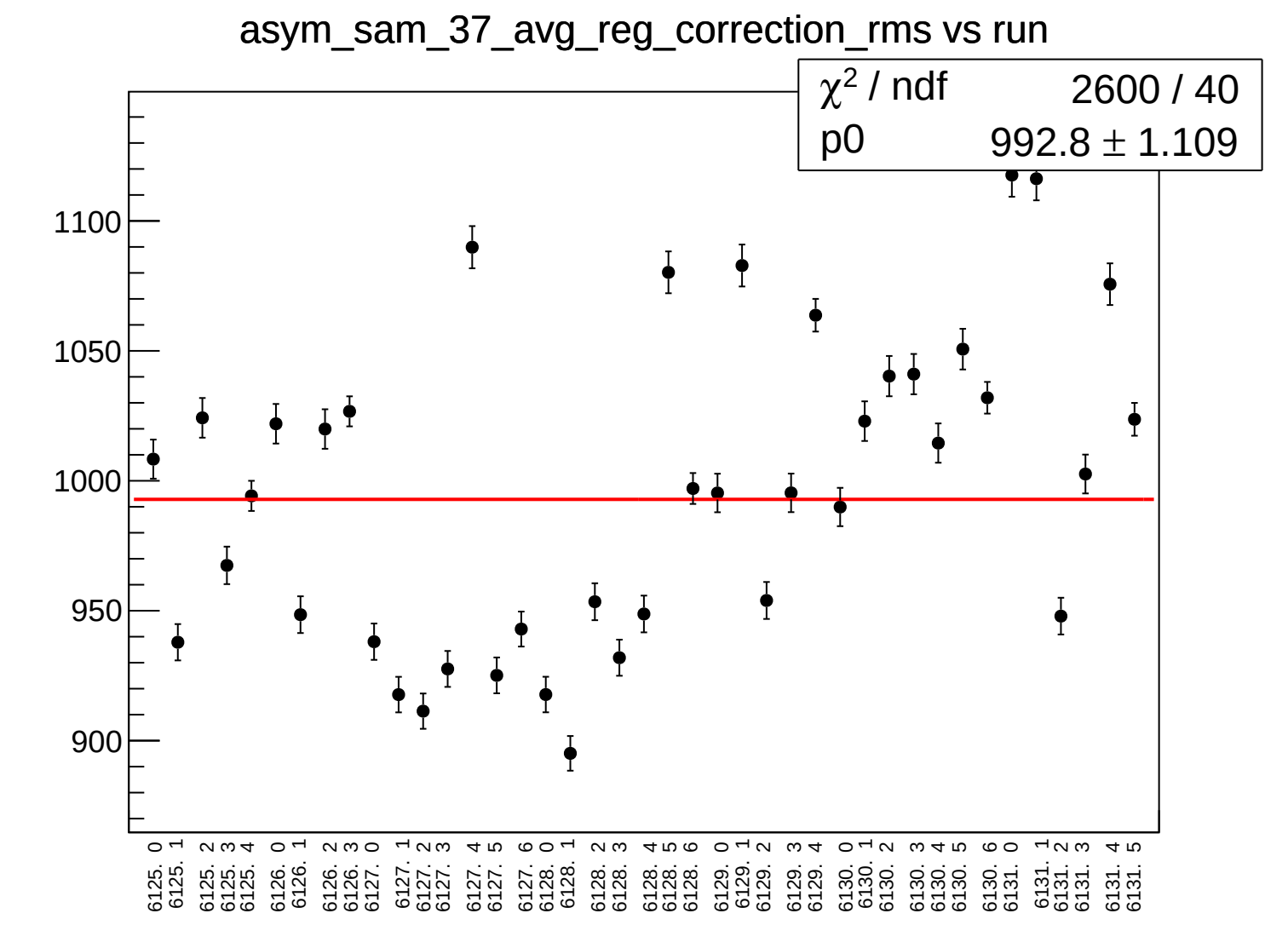

reg_asym_sam_37_avg_mean vs run
χ² / ndf 32.64 / 40
p0 −31.06 ± 105.8
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 29.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

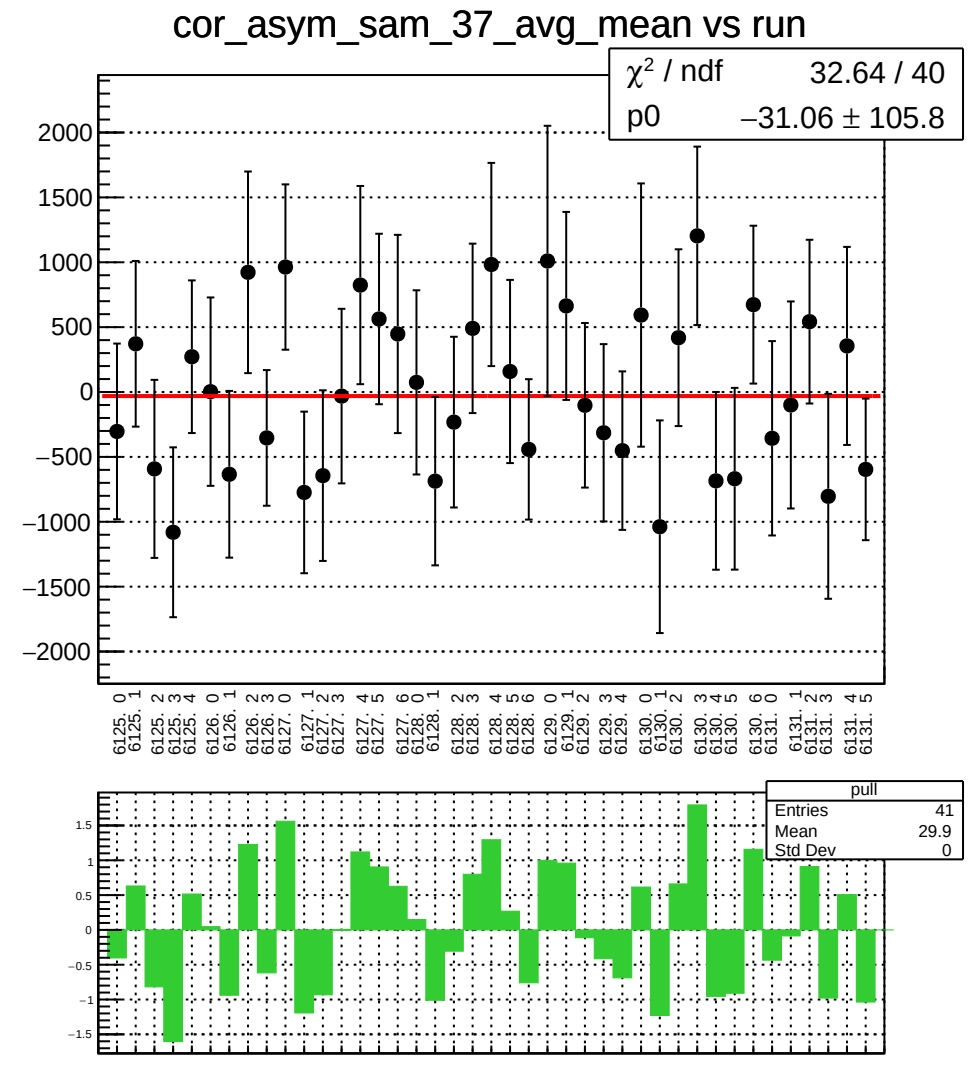

pull1D
Entries 41
Mean 0.03222
Std Dev 0.8917
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

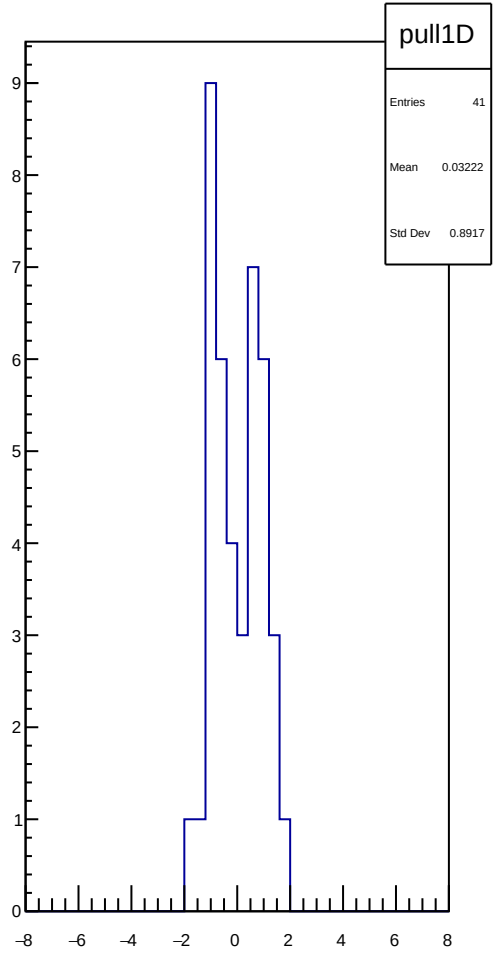

reg_asym_sam_37_avg_rms vs run
χ² / ndf 8102 / 40
p0 66.77 ± 0.07484
100
95
90
85
80
75
70
65
60
55
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

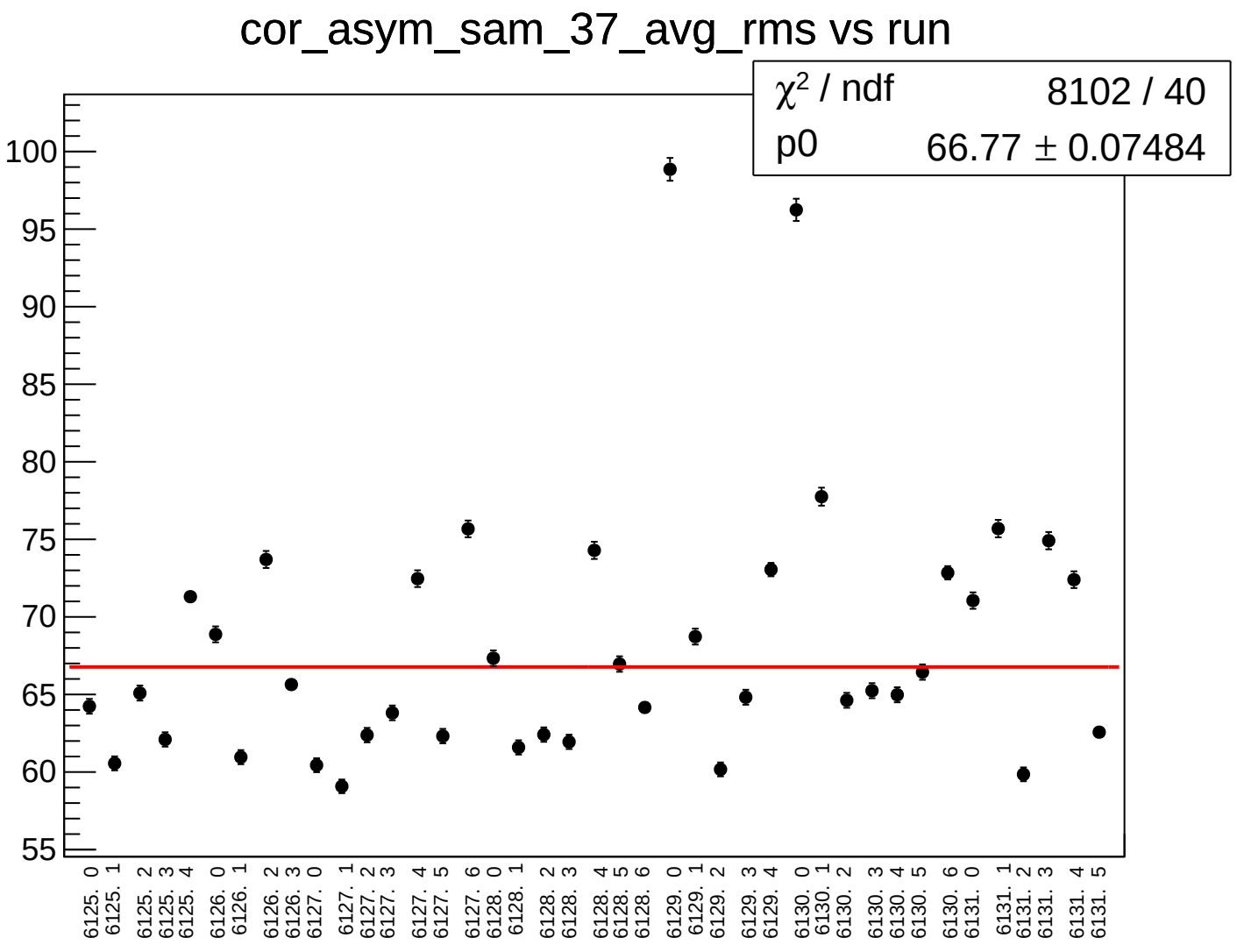

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 22.27 / 40
p0 −1380 ± 1568
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1883
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

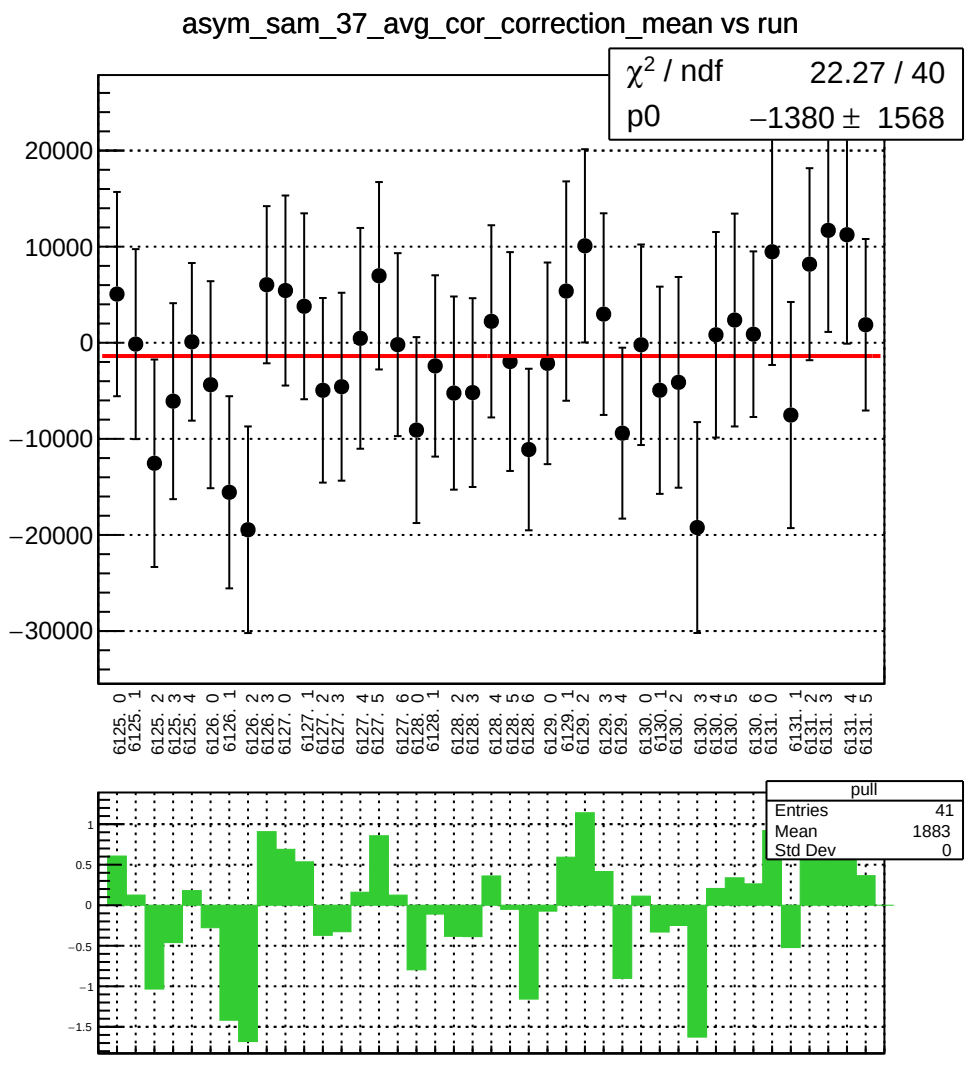

pull1D
Entries 41
Mean 0.001271
Std Dev 0.737
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

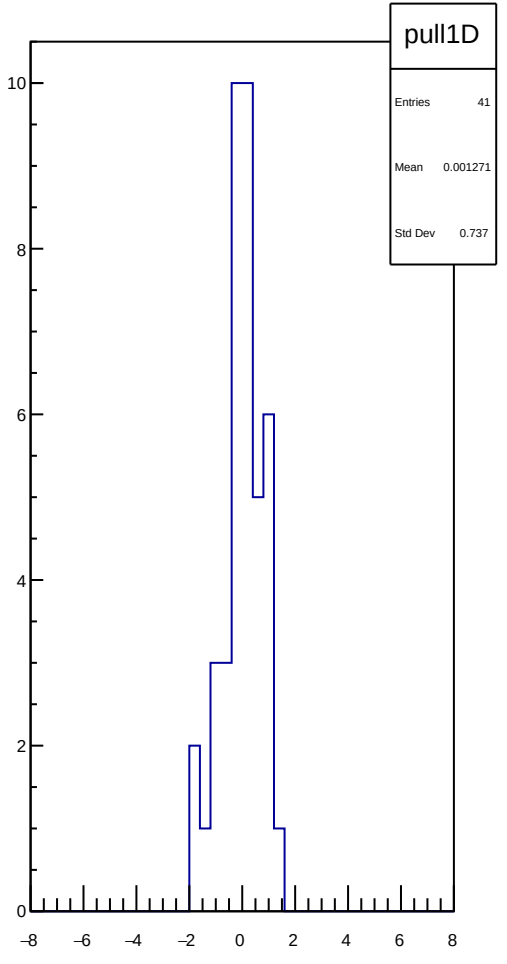

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 2600 / 40
p0 992.8 ± 1.109
1100
1050
1000
950
900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

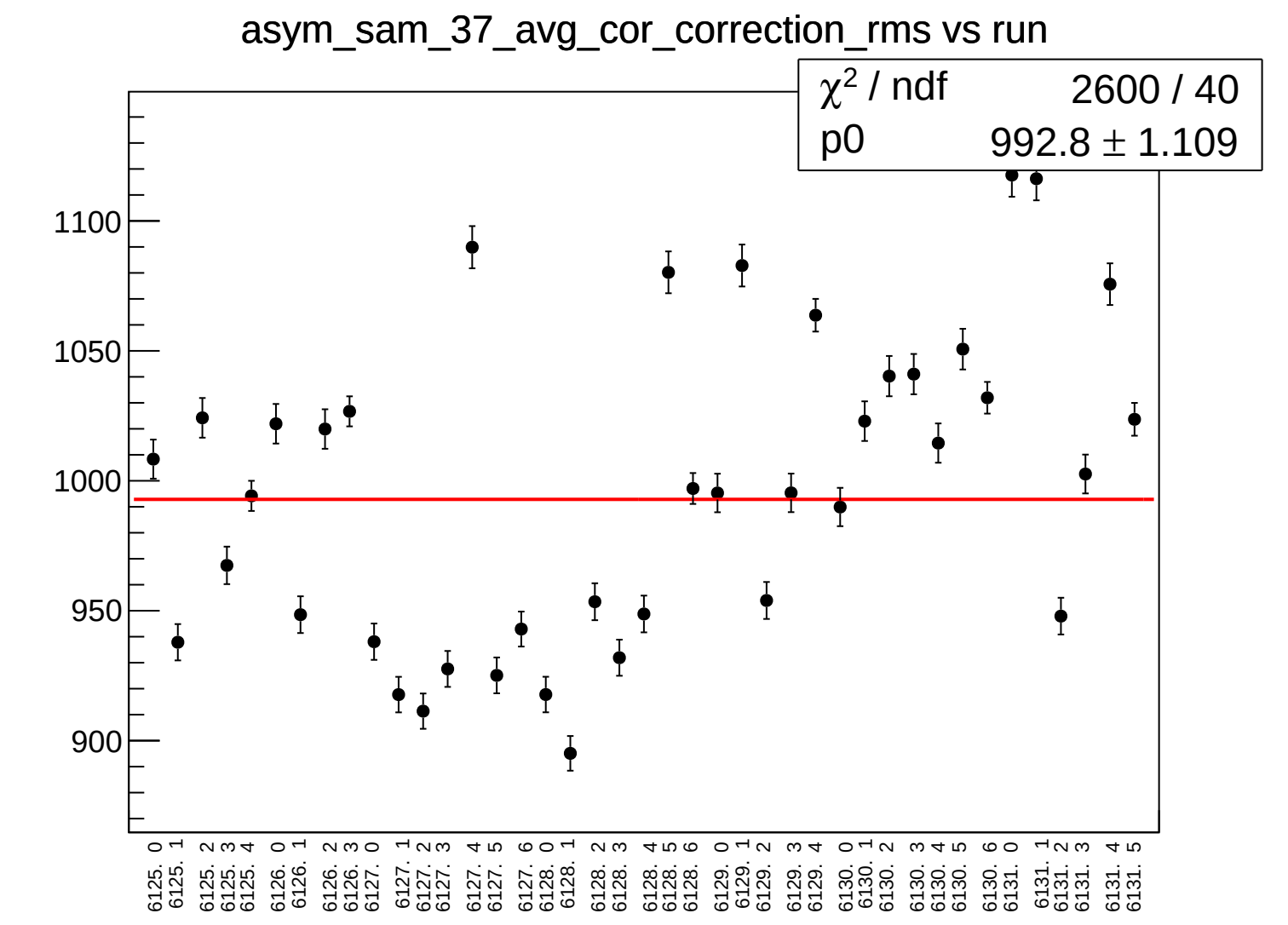

cor_asym_sam_37_avg_mean vs run
χ² / ndf 32.64 / 40
p0 −31.06 ± 105.8
pull
Entries 41
Mean 29.9
Std Dev 0

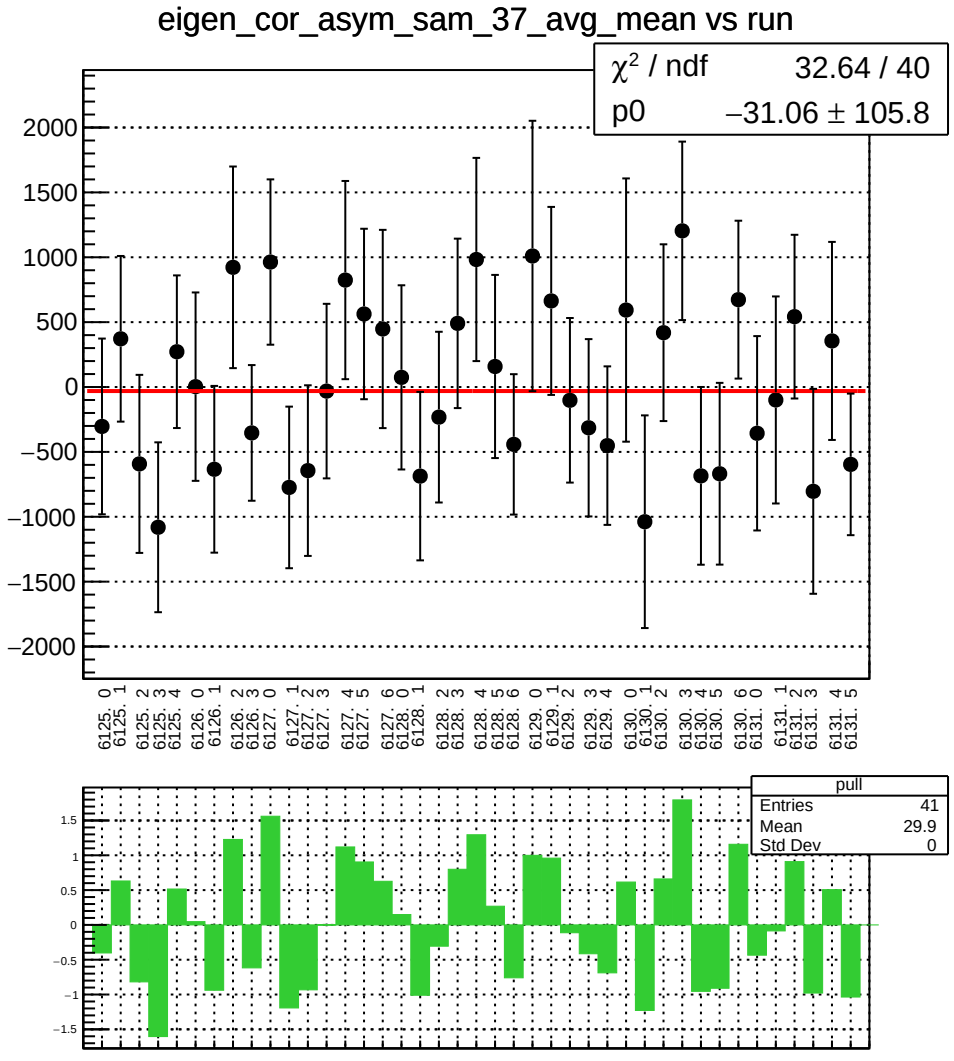

pull1D
Entries 41
Mean 0.03222
Std Dev 0.8917

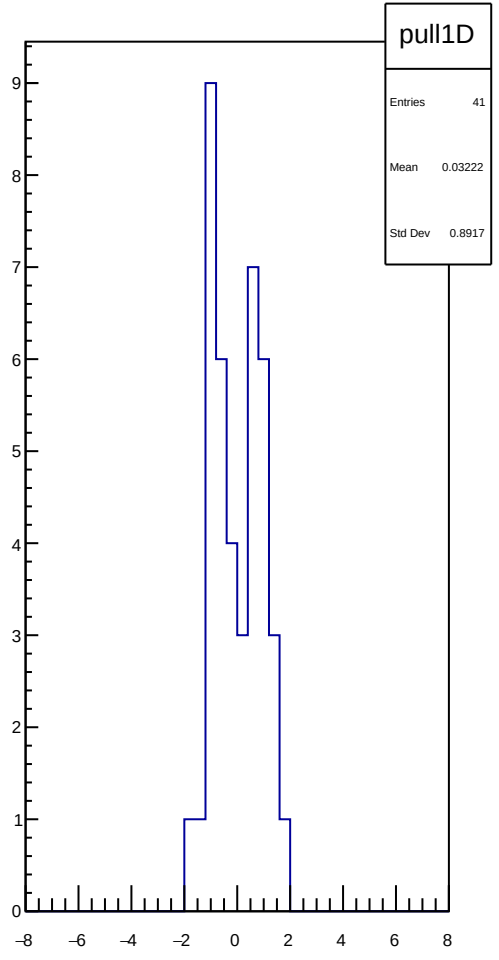

cor_asym_sam_37_avg_rms vs run
χ² / ndf 8102 / 40
p0 66.77 ± 0.07484
100
95
90
85
80
75
70
65
60
55
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

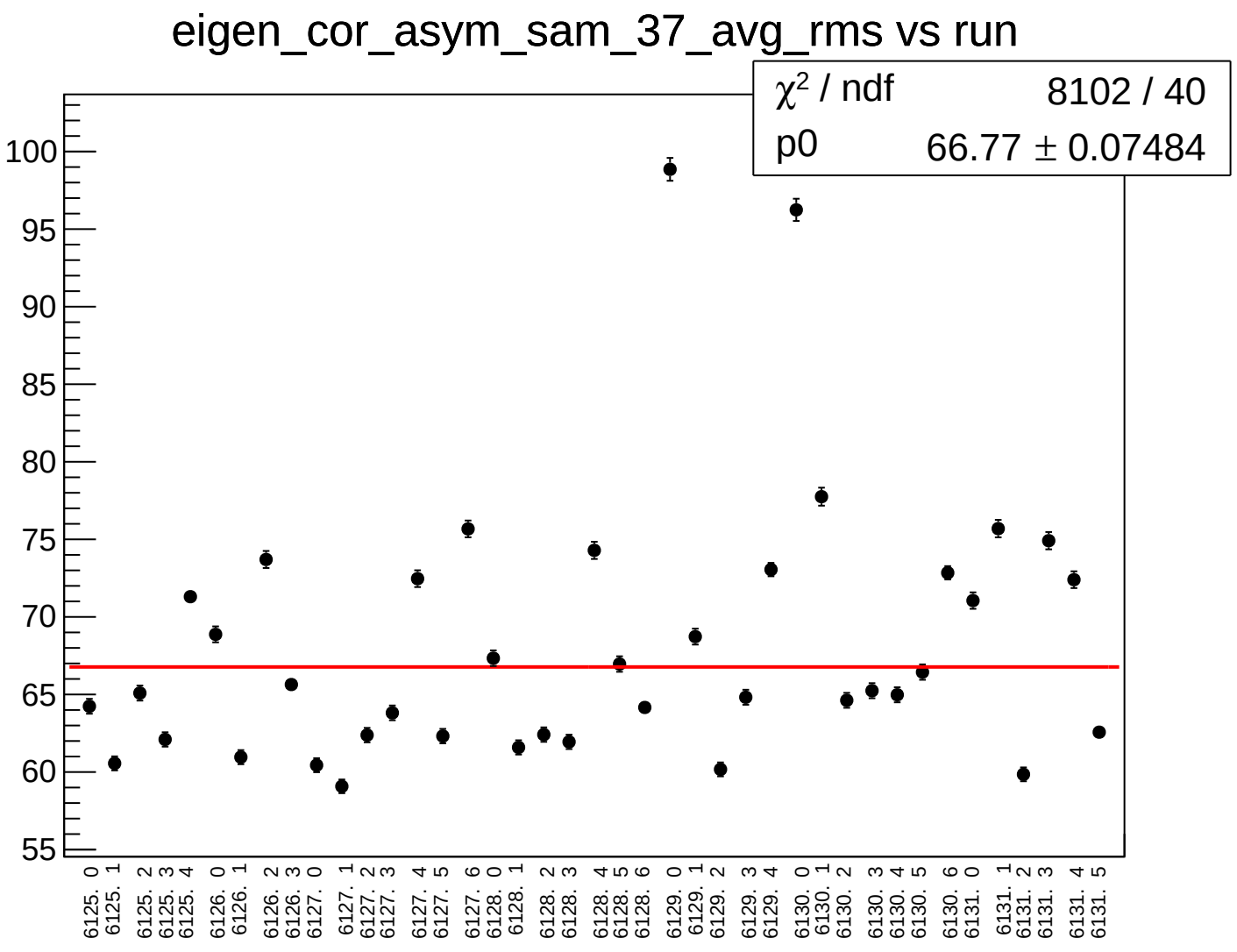

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 22.27 / 40
p0 −1380 ± 1568
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1883
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

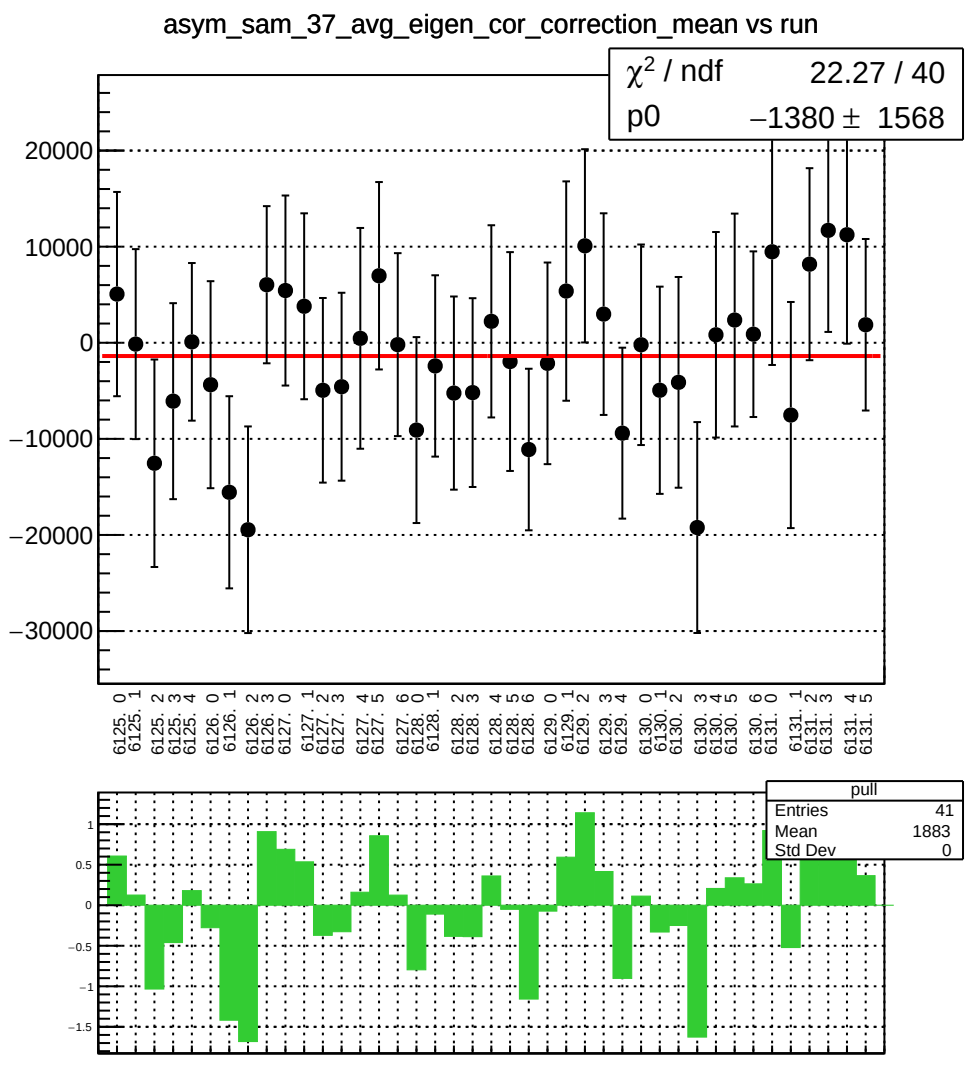

pull1D
Entries 41
Mean 0.001271
Std Dev 0.737
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

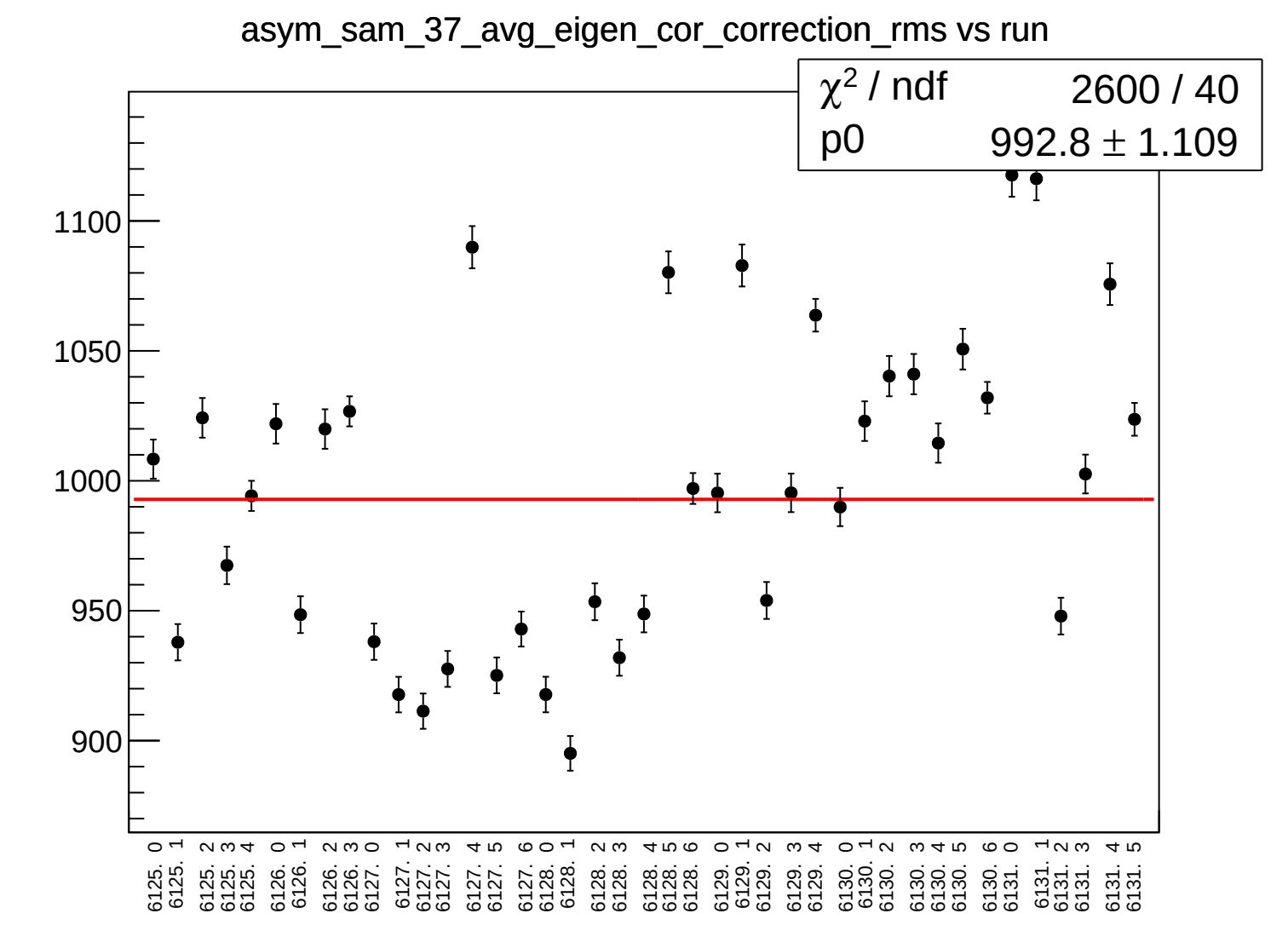

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 2600 / 40
p0 992.8 ± 1.109
1100
1050
1000
950
900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

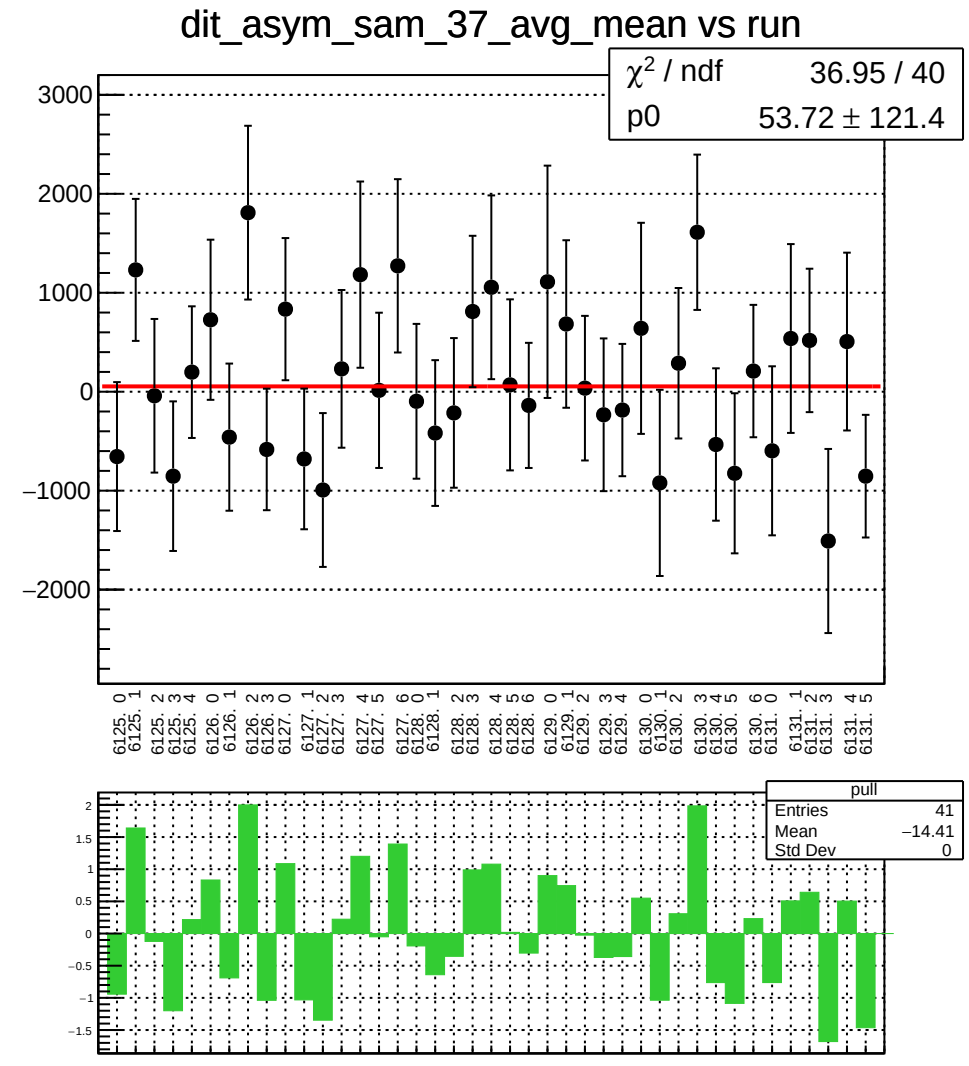

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 32.64 / 40
p0 −31.06 ± 105.8
pull
Entries 41
Mean 29.9
Std Dev 0

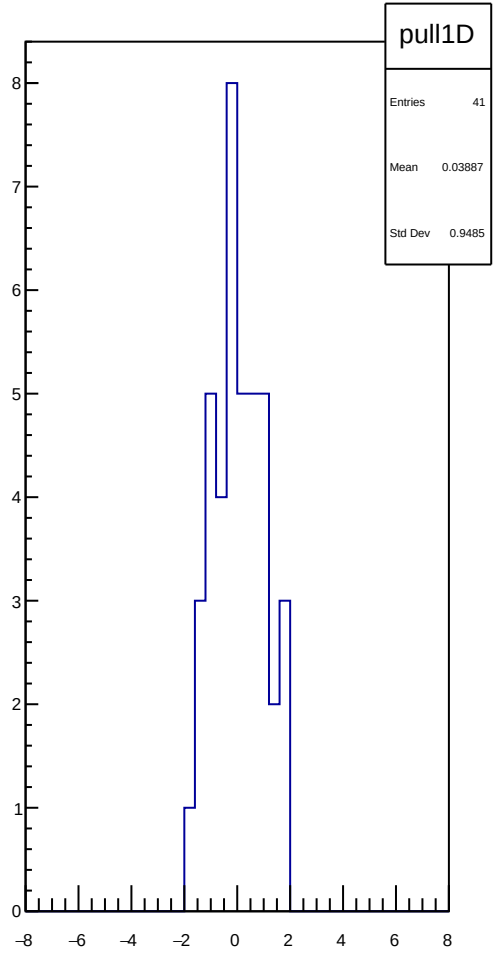

pull1D
Entries 41
Mean 0.03222
Std Dev 0.8917

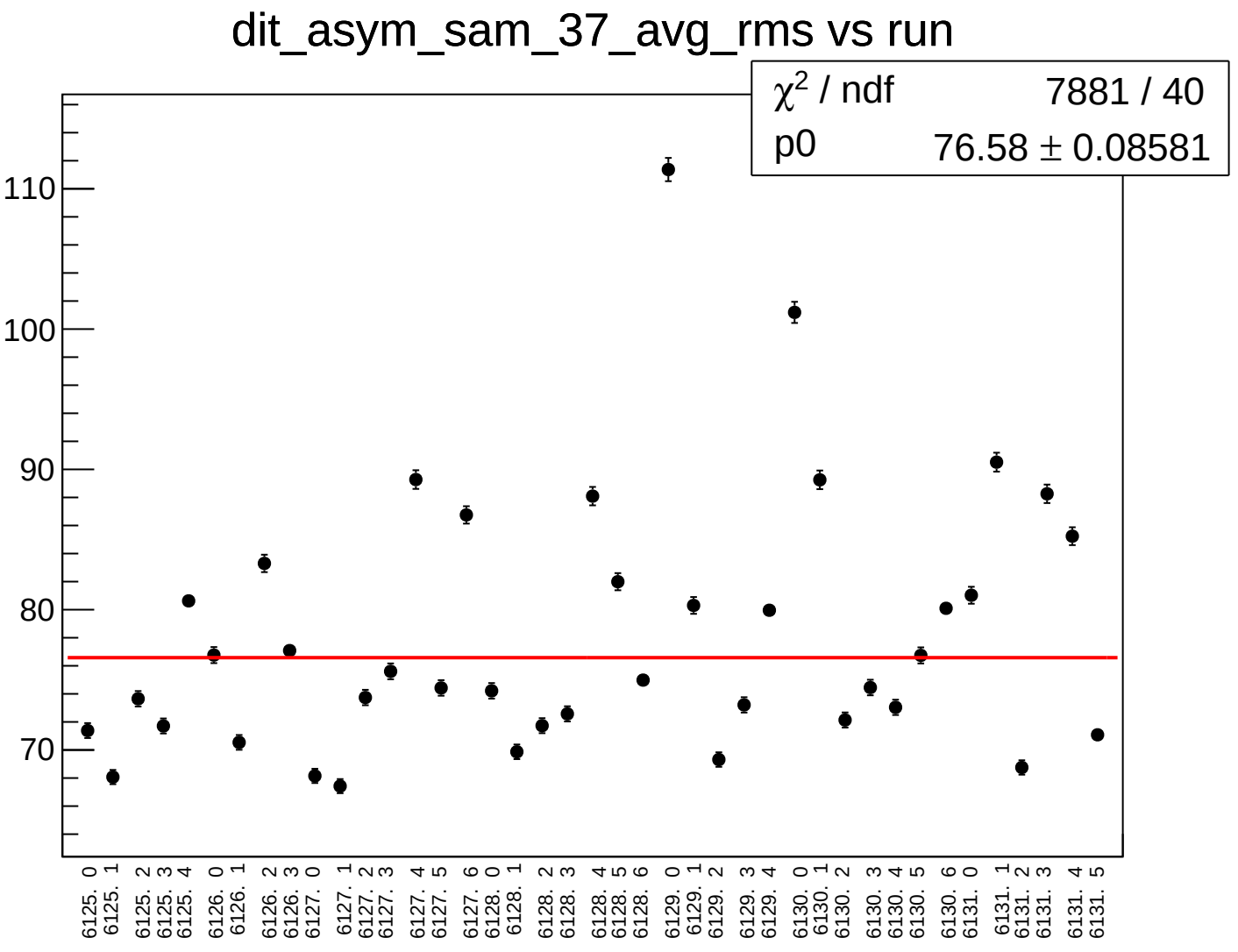

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 8102 / 40
p0 66.77 ± 0.07484
100
95
90
85
80
75
70
65
60
55
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

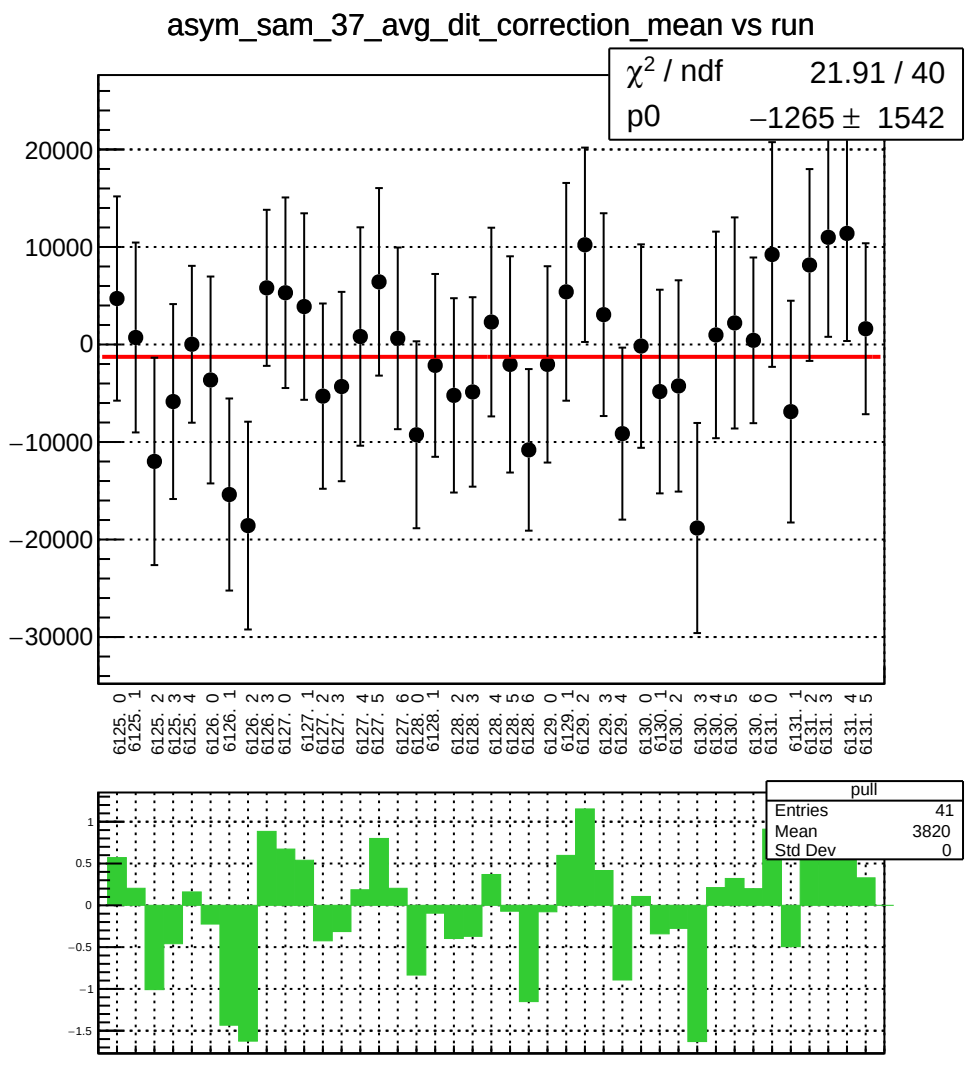

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 22.27 / 40
p0 −1380 ± 1568
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1883
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.001271
Std Dev 0.737
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

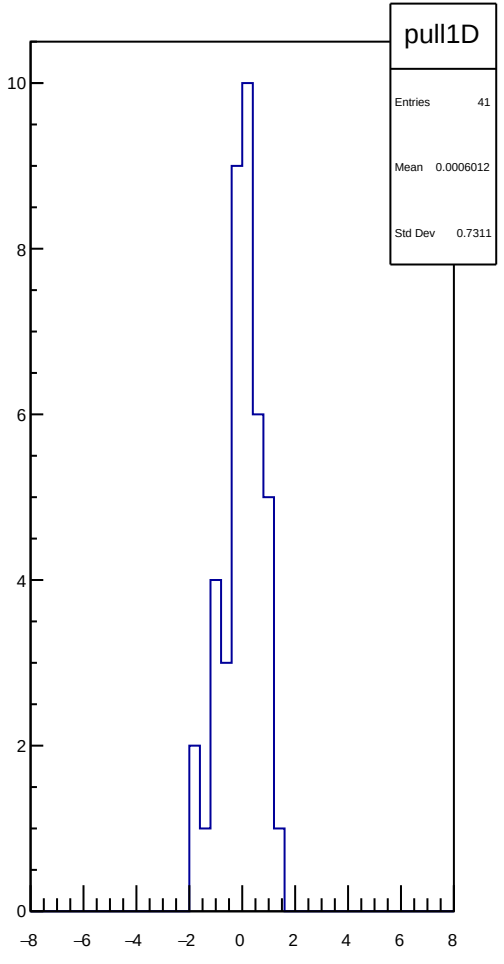

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 2600 / 40
p0 992.8 ± 1.109
1100
1050
1000
950
900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

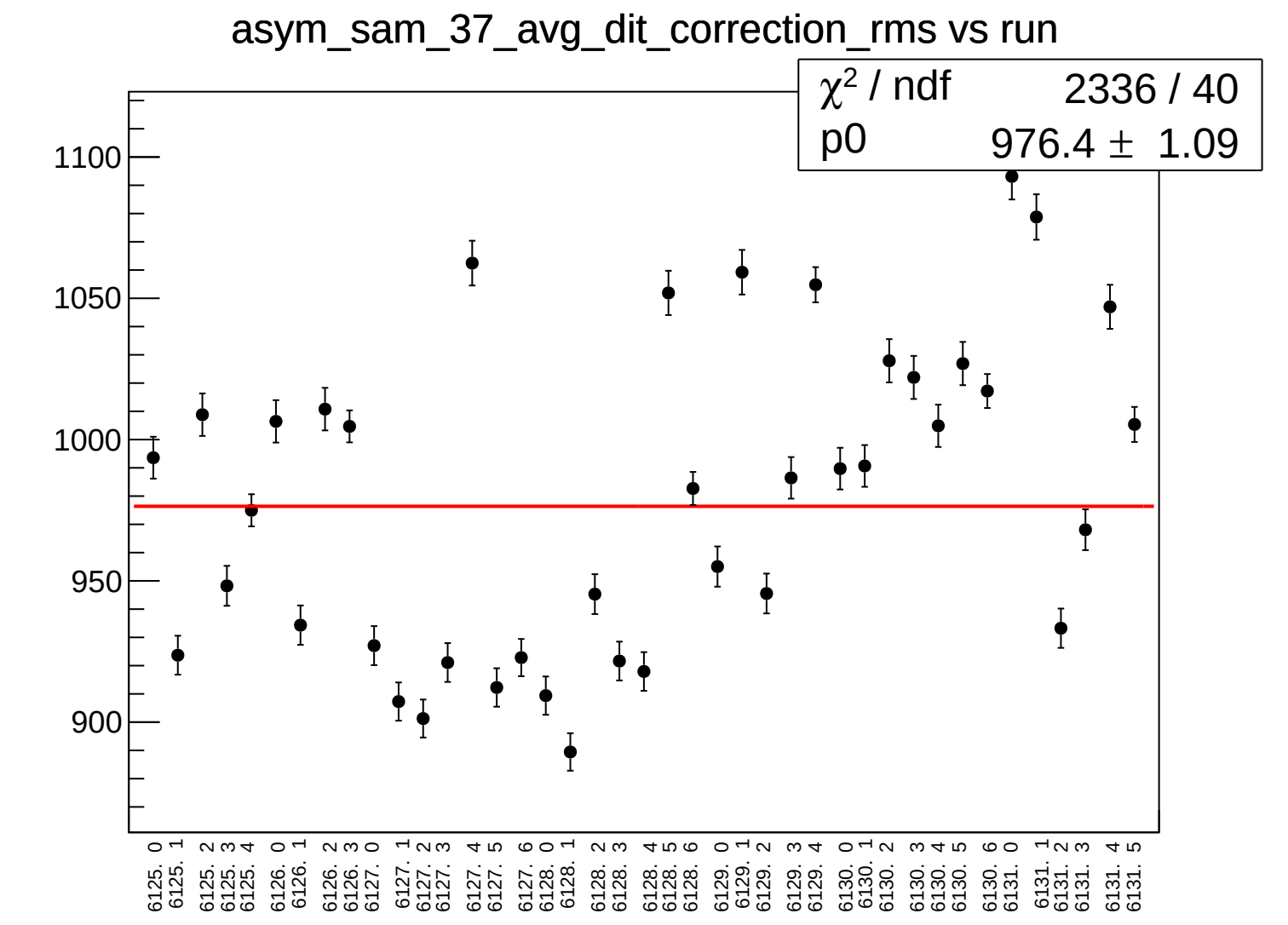

dit_asym_sam_37_avg_mean vs run
χ² / ndf 36.95 / 40
p0 53.72 ± 121.4
3000
2000
1000
0
−1000
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −14.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

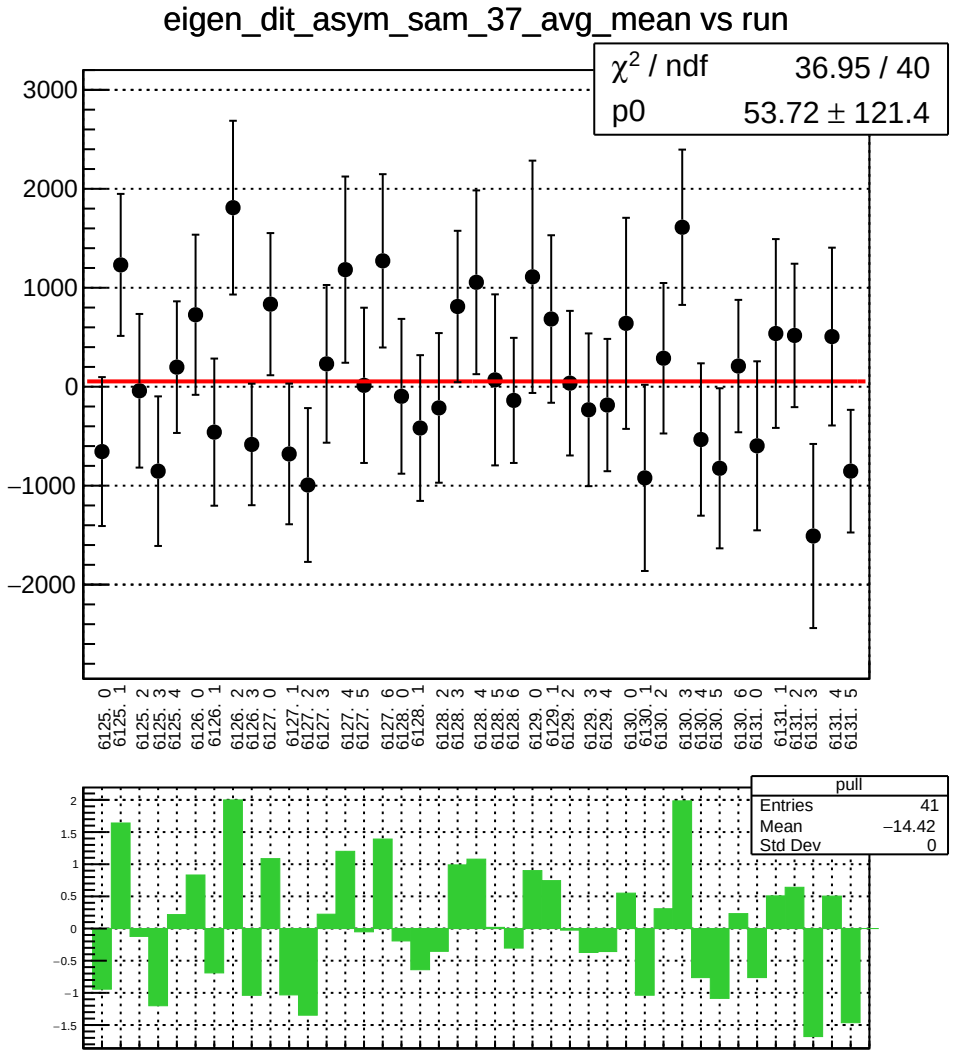

pull1D
Entries 41
Mean 0.03887
Std Dev 0.9485
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

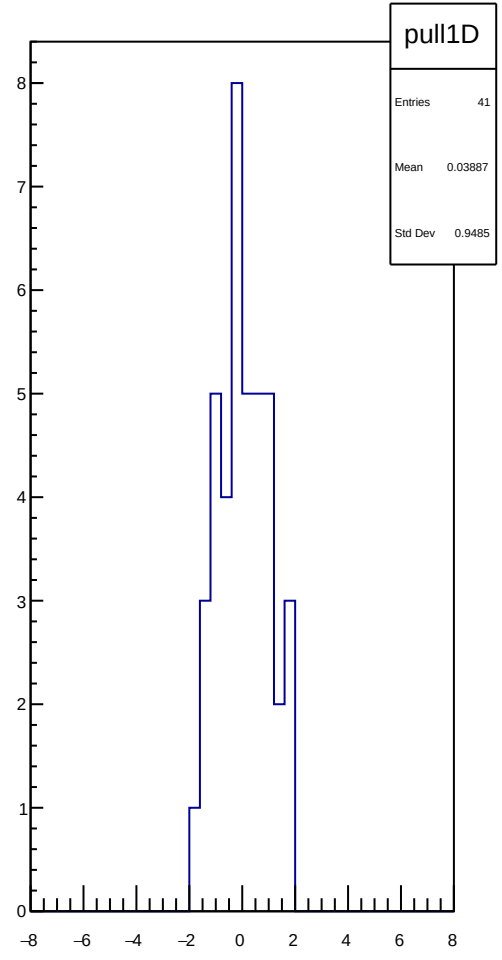

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 7881 / 40
p0 76.58 ± 0.08581
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

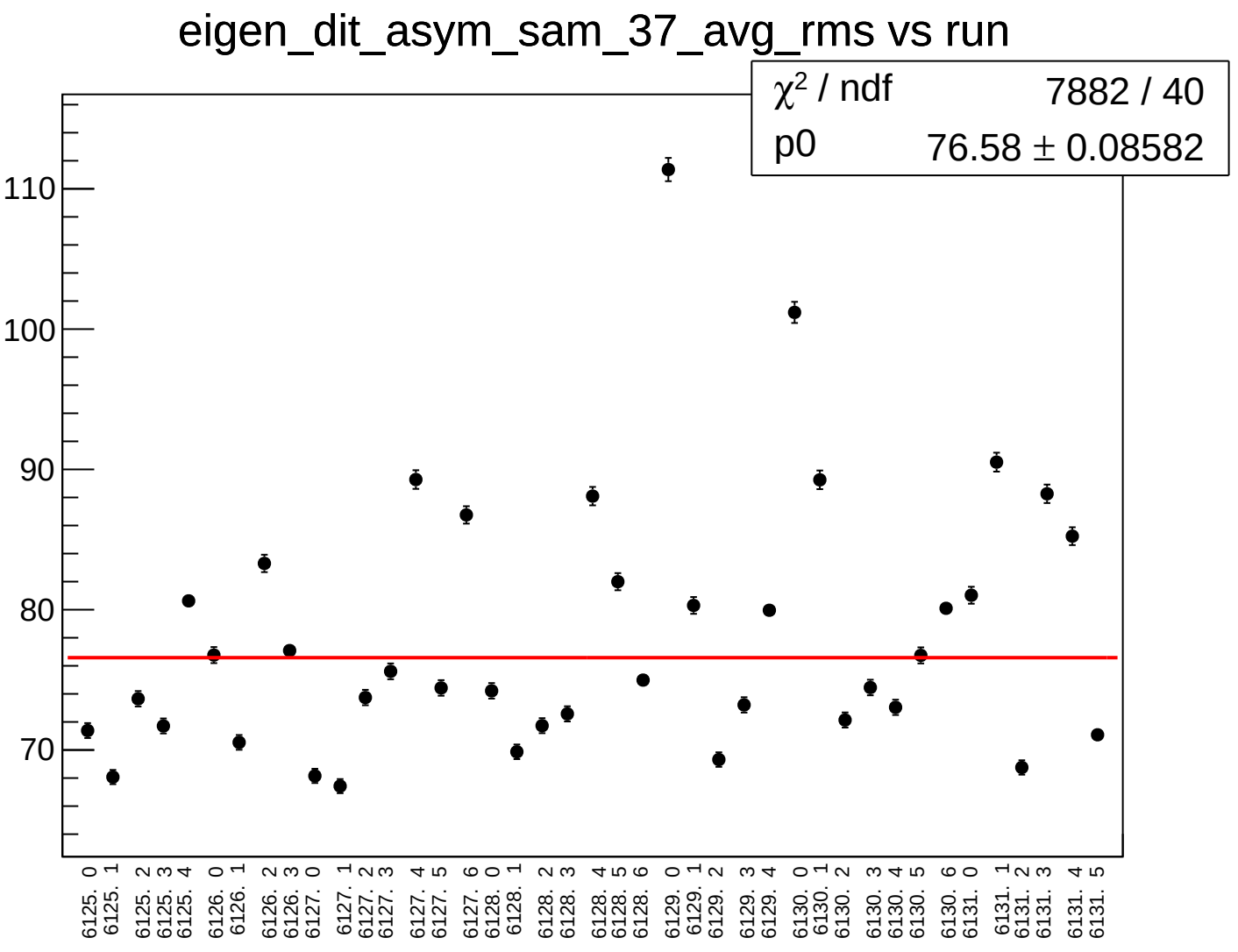

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 21.91 / 40
p0 −1265 ± 1542
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 3820
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

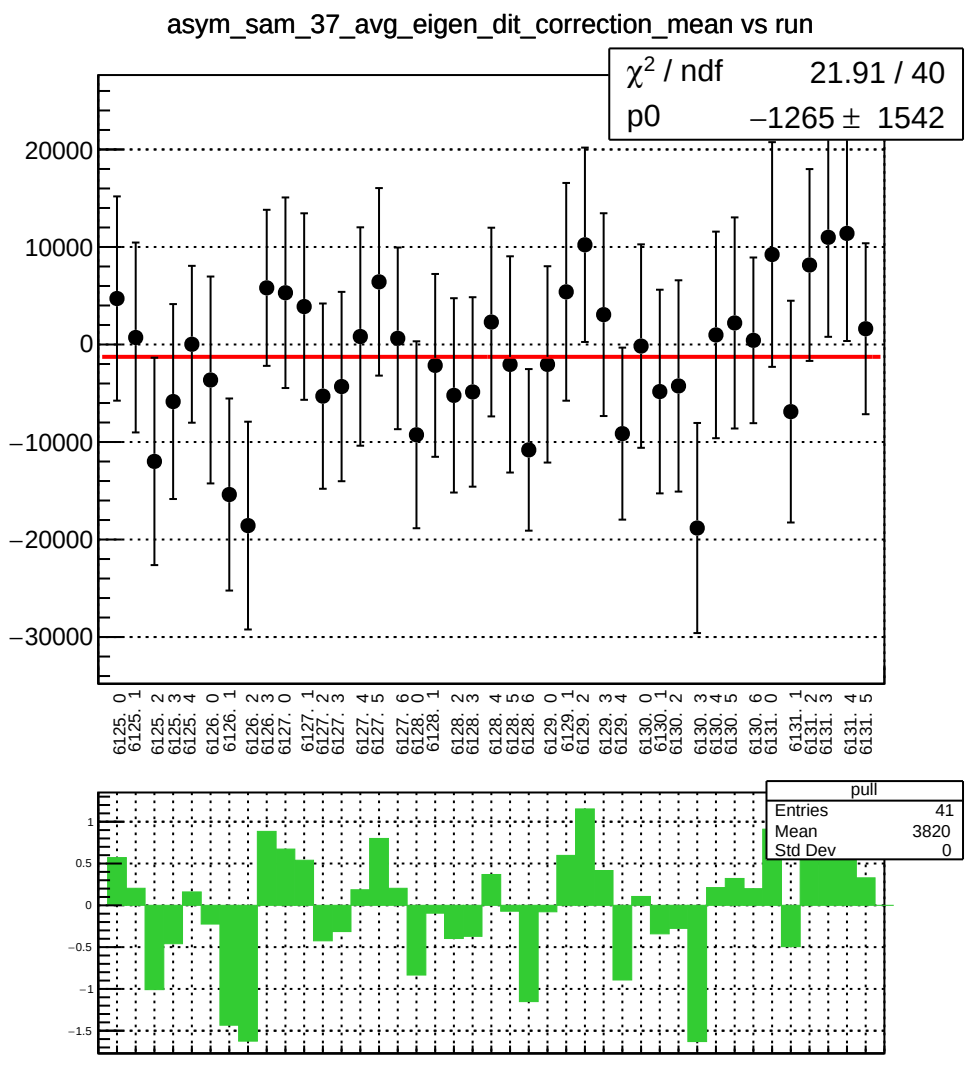

pull1D
Entries 41
Mean 0.0006012
Std Dev 0.7311
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

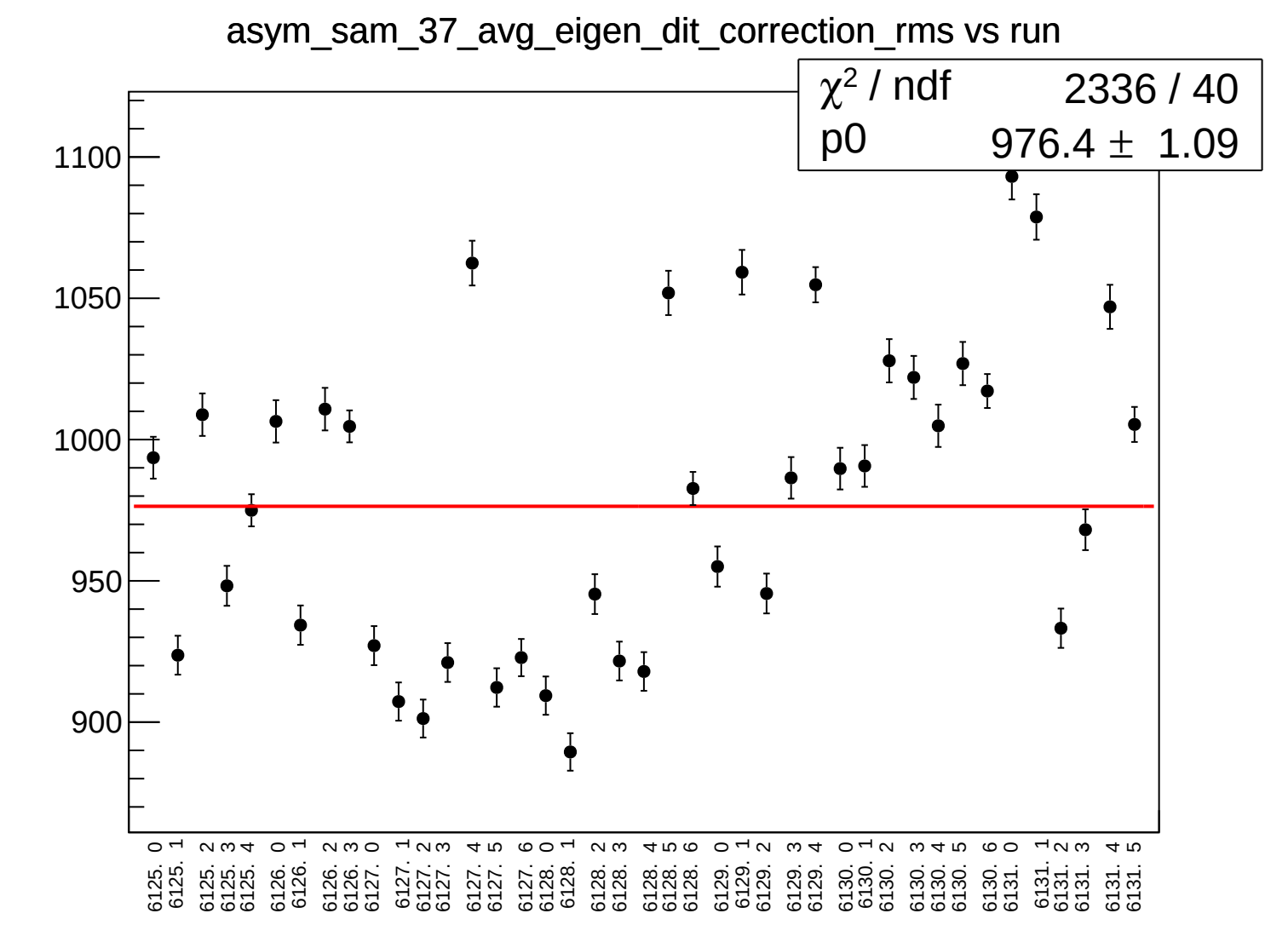

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 2336 / 40
p0 976.4 ± 1.09
1100
1050
1000
950
900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 36.95 / 40
p0 53.72 ± 121.4
3000
2000
1000
0
−1000
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −14.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.03887
Std Dev 0.9485
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 7882 / 40
p0 76.58 ± 0.08582
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 21.91 / 40
p0 −1265 ± 1542
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 3820
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.0006012
Std Dev 0.7311
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 2336 / 40
p0 976.4 ± 1.09
1100
1050
1000
950
900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
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6128. 4
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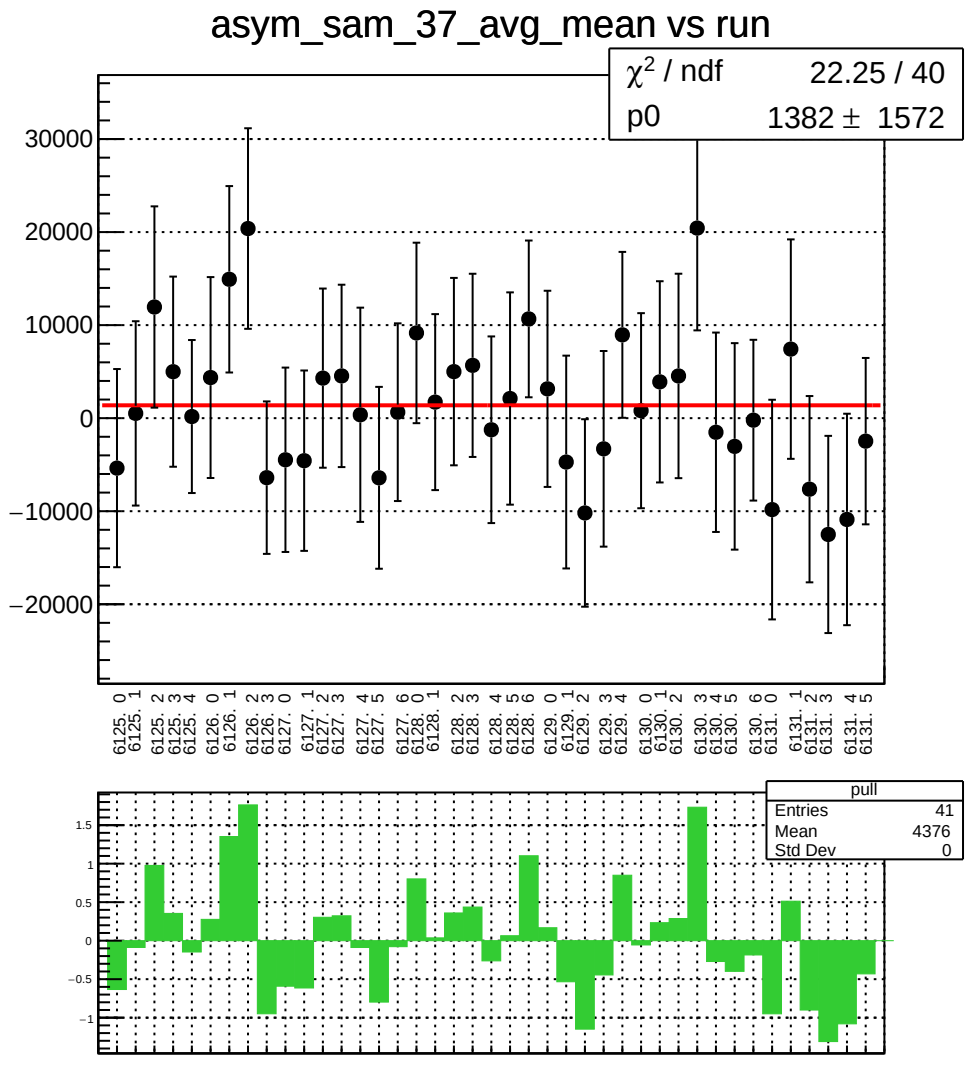
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam_37_avg_mean vs run
χ² / ndf 22.25 / 40
p0 1382 ± 1572
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
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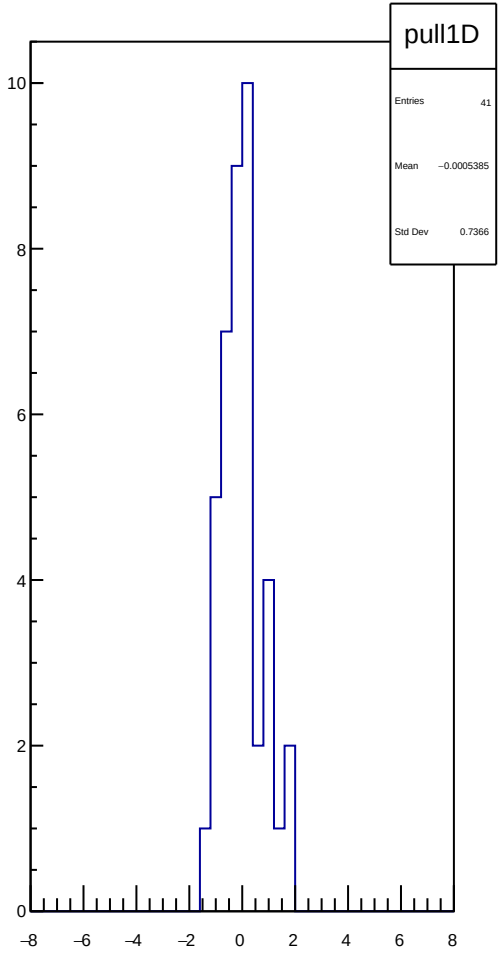
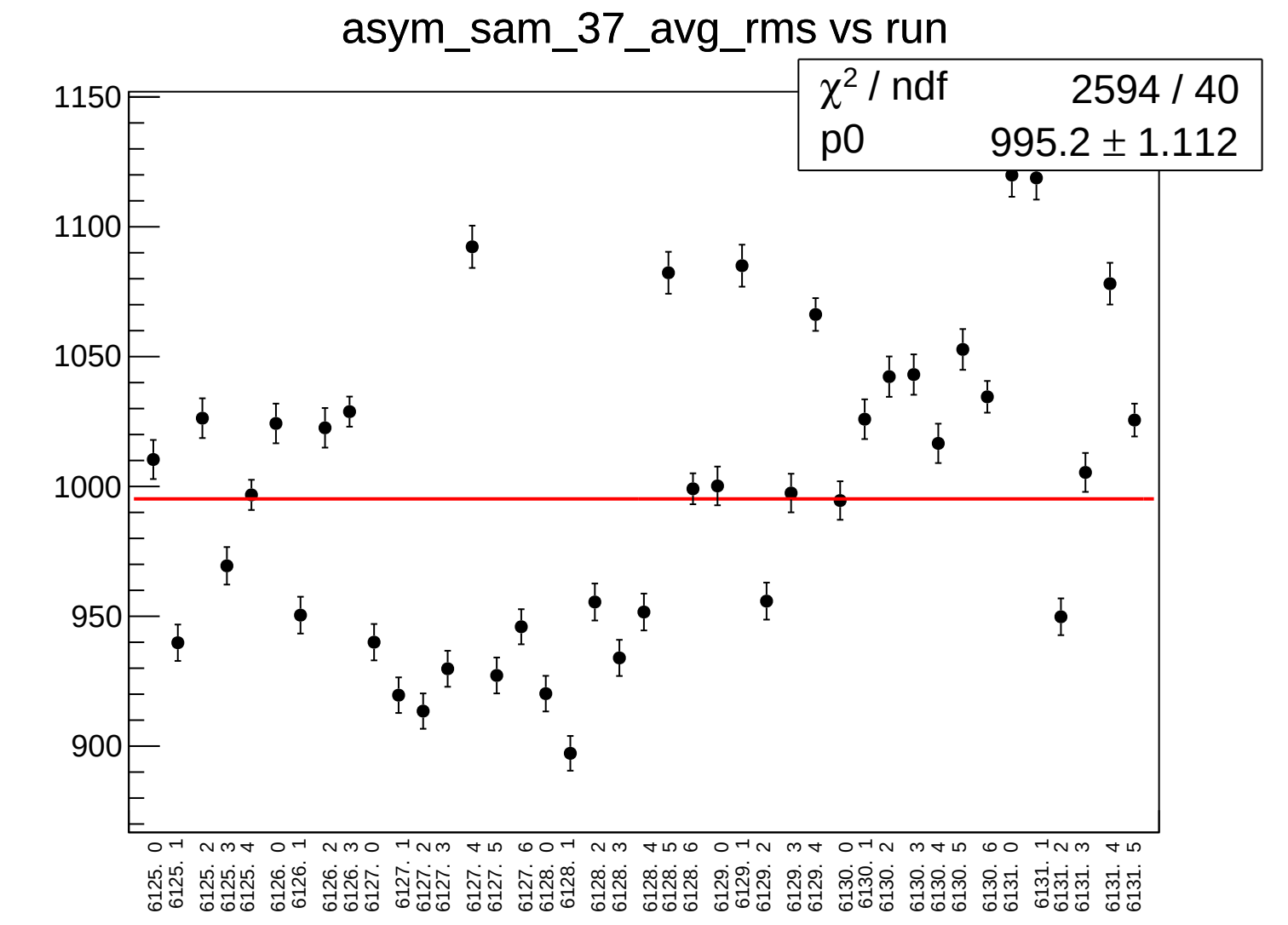
6131. 4
6131. 5
pull
Entries 41
Mean 4376
Std Dev 0
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 41
Mean −0.0005385
Std Dev 0.7366
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_avg_rms vs run
χ² / ndf 2594 / 40
p0 995.2 ± 1.112
1150
1100
1050
1000
950
900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6127. 5
6127. 6
6128. 0
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6128. 6
6129. 0
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6130. 0
6130. 1
6130. 2
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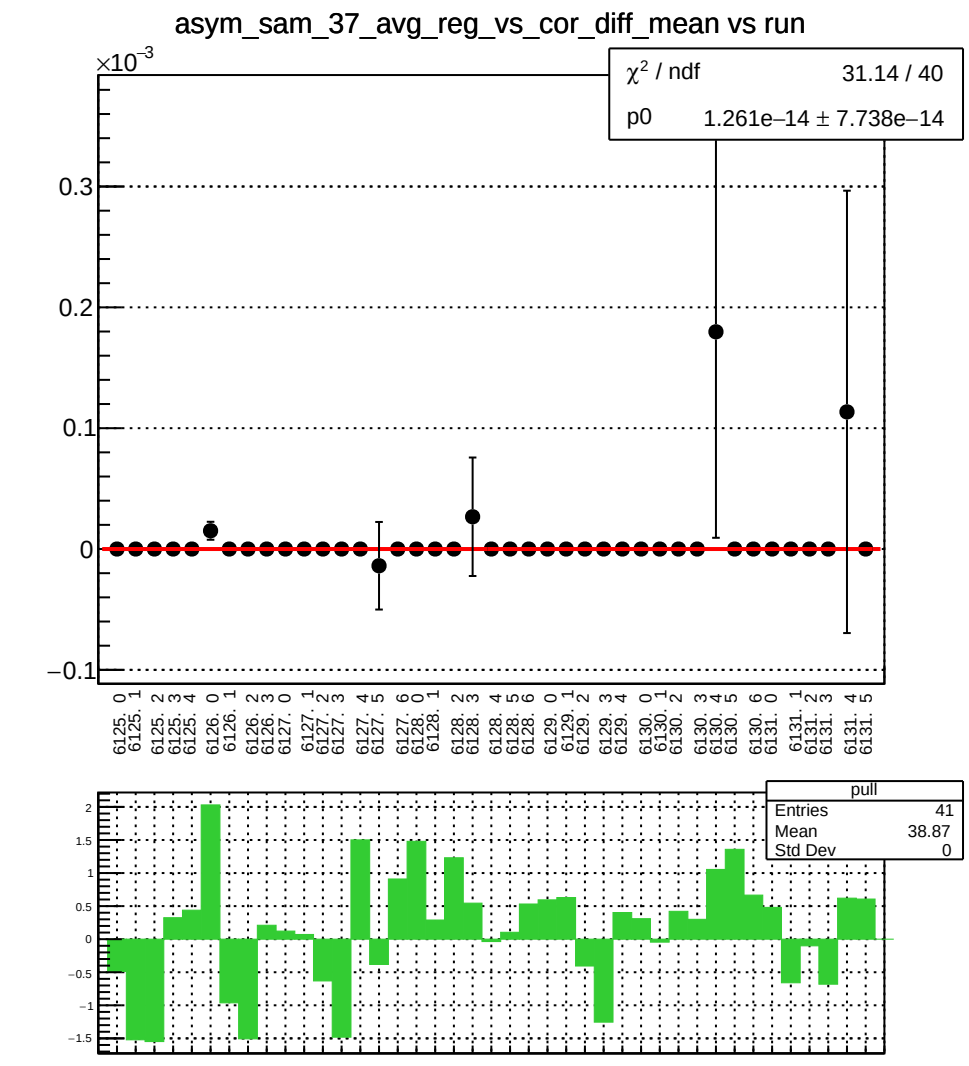
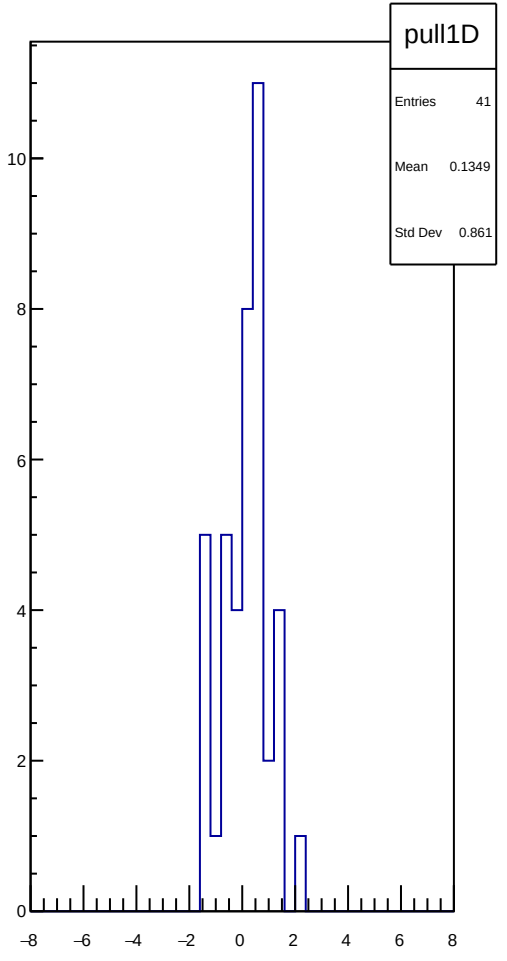
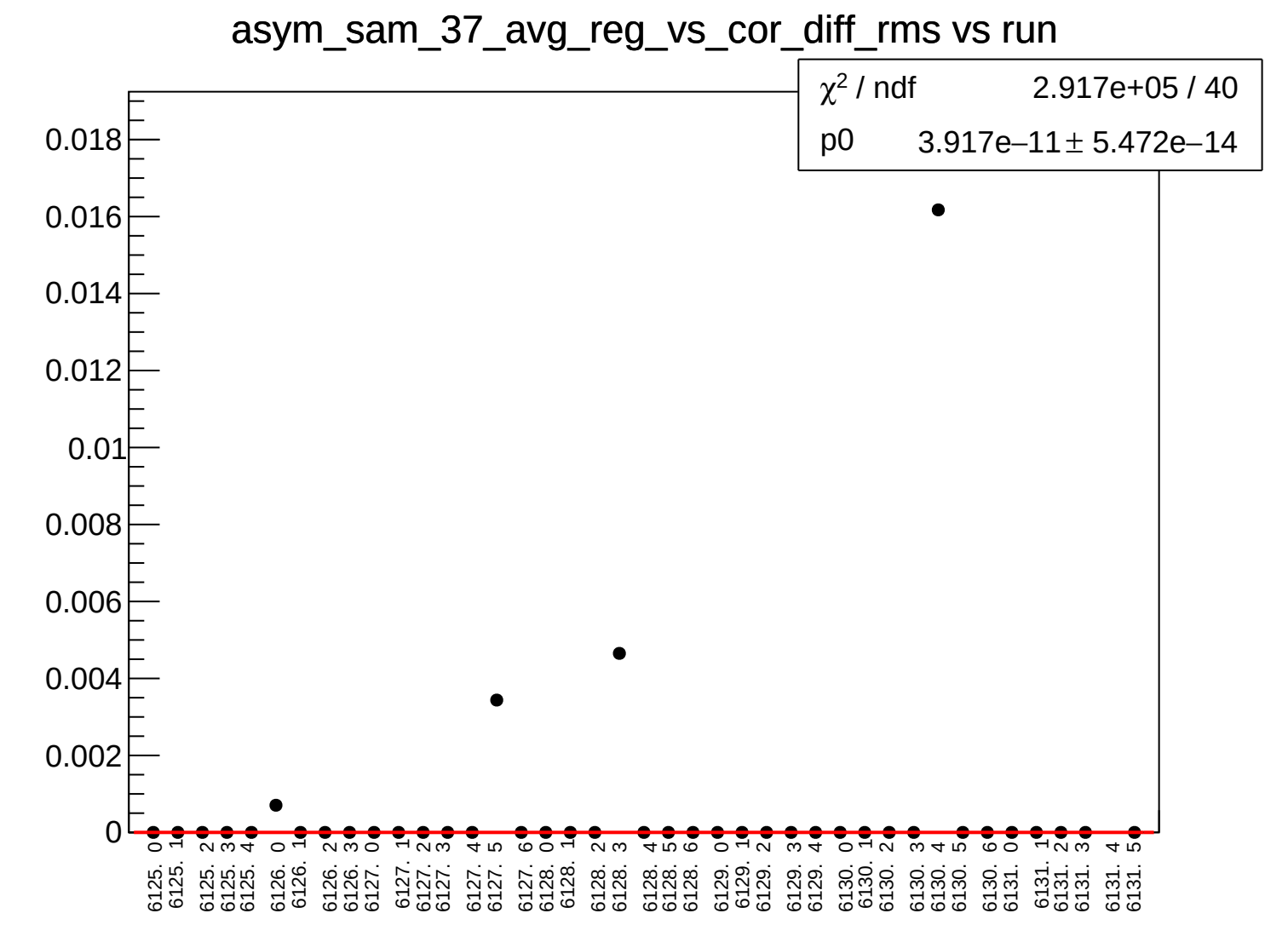
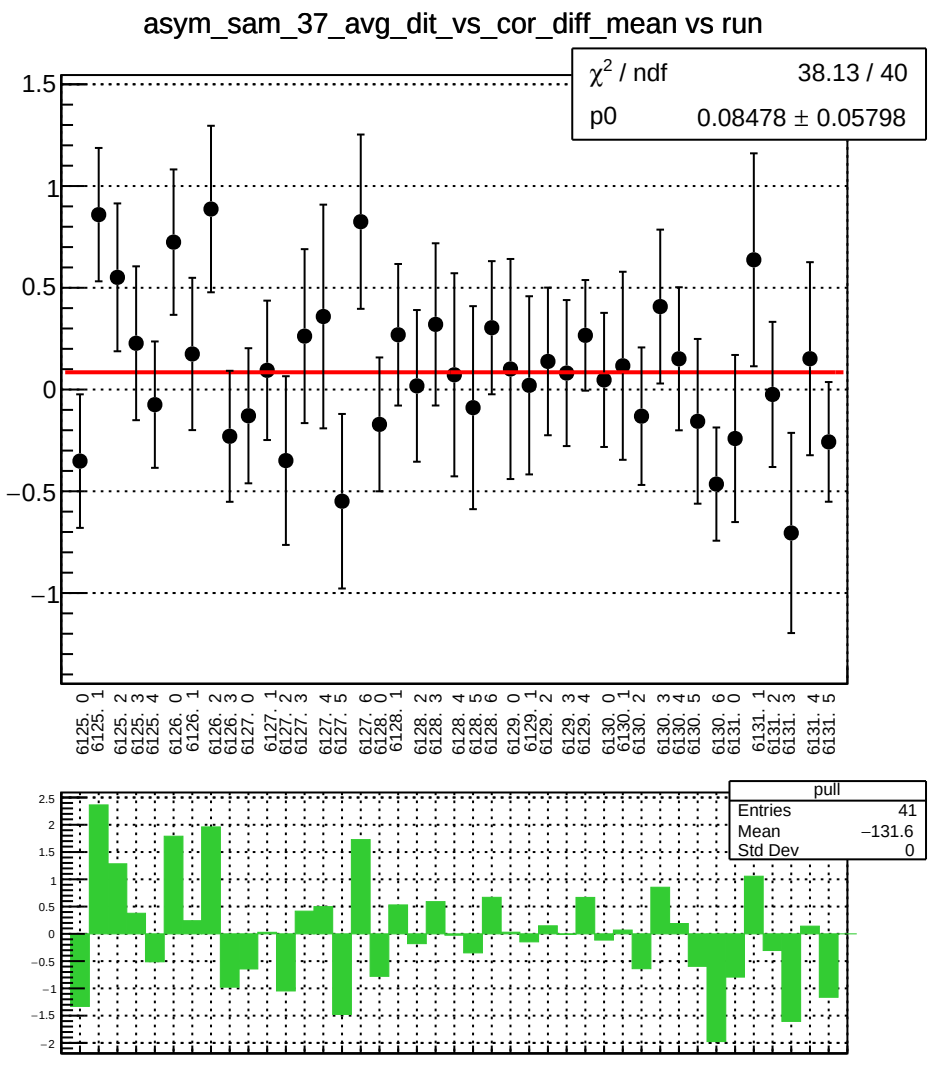
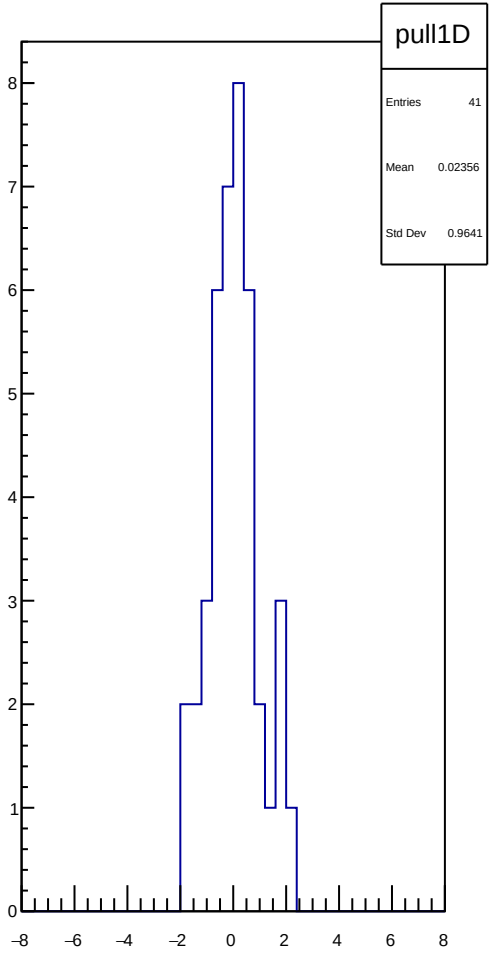
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

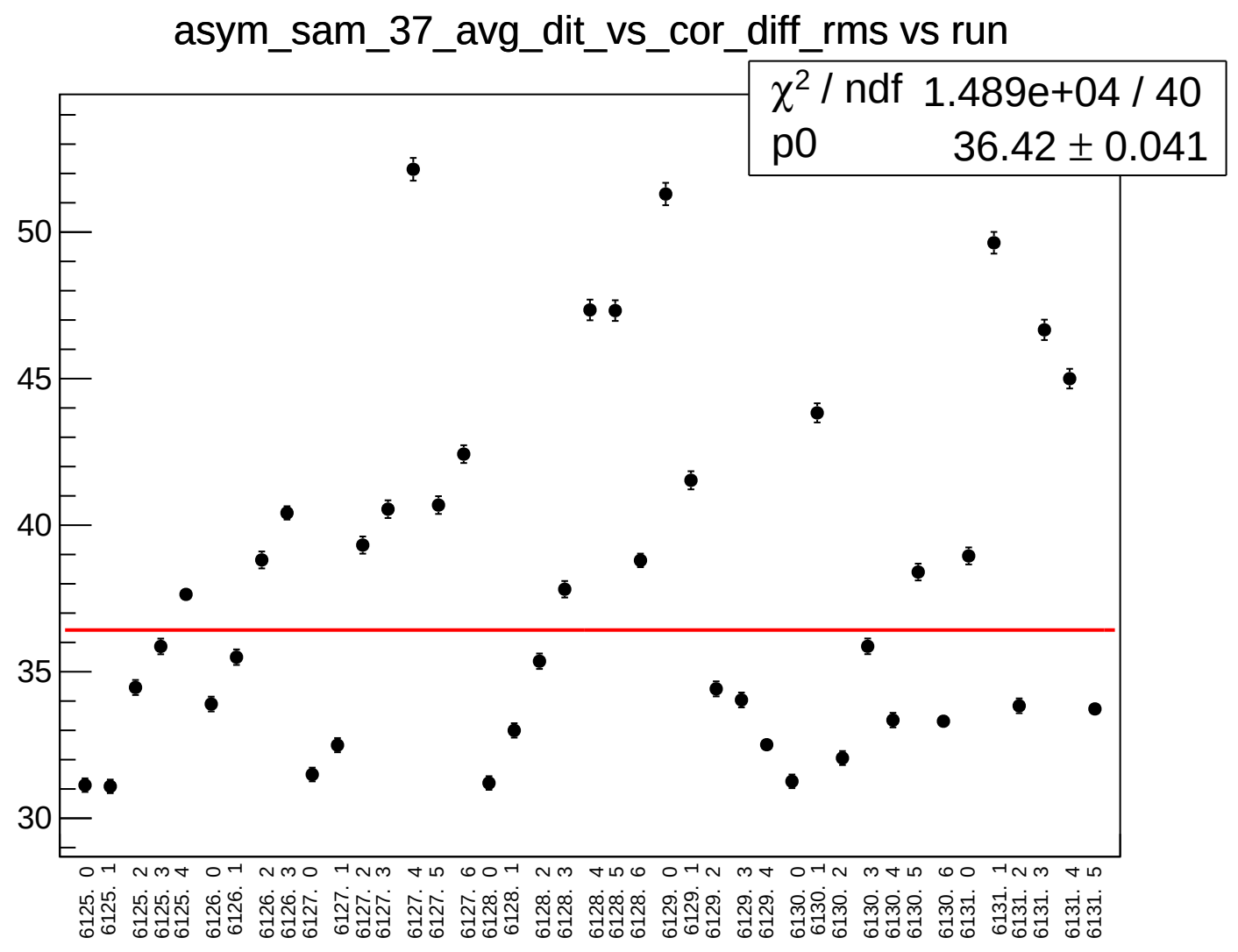

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 31.14 / 40
p0 1.261e−14 ± 7.738e−14
0.3
0.2
0.1
0
−0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 38.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

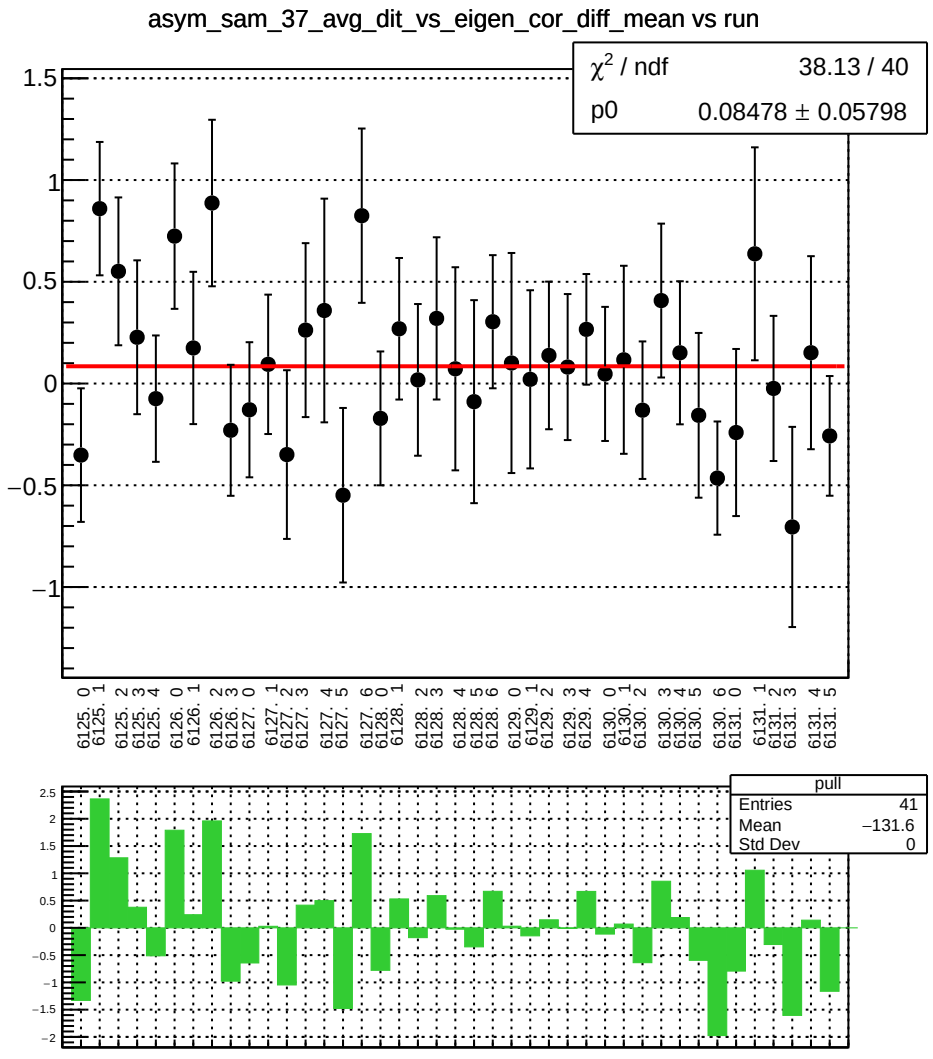

pull1D
Entries 41
Mean 0.1349
Std Dev 0.861
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

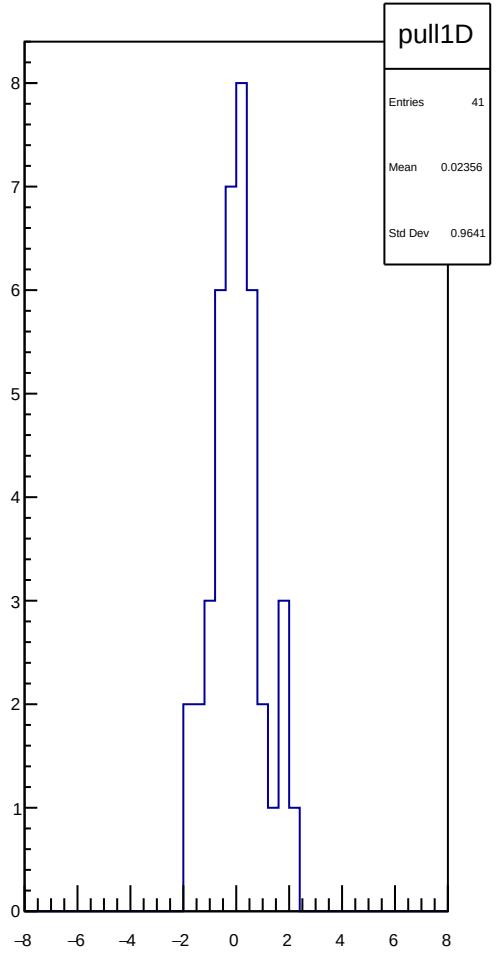

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.917e+05 / 40
p0 3.917e−11 ± 5.472e−14
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

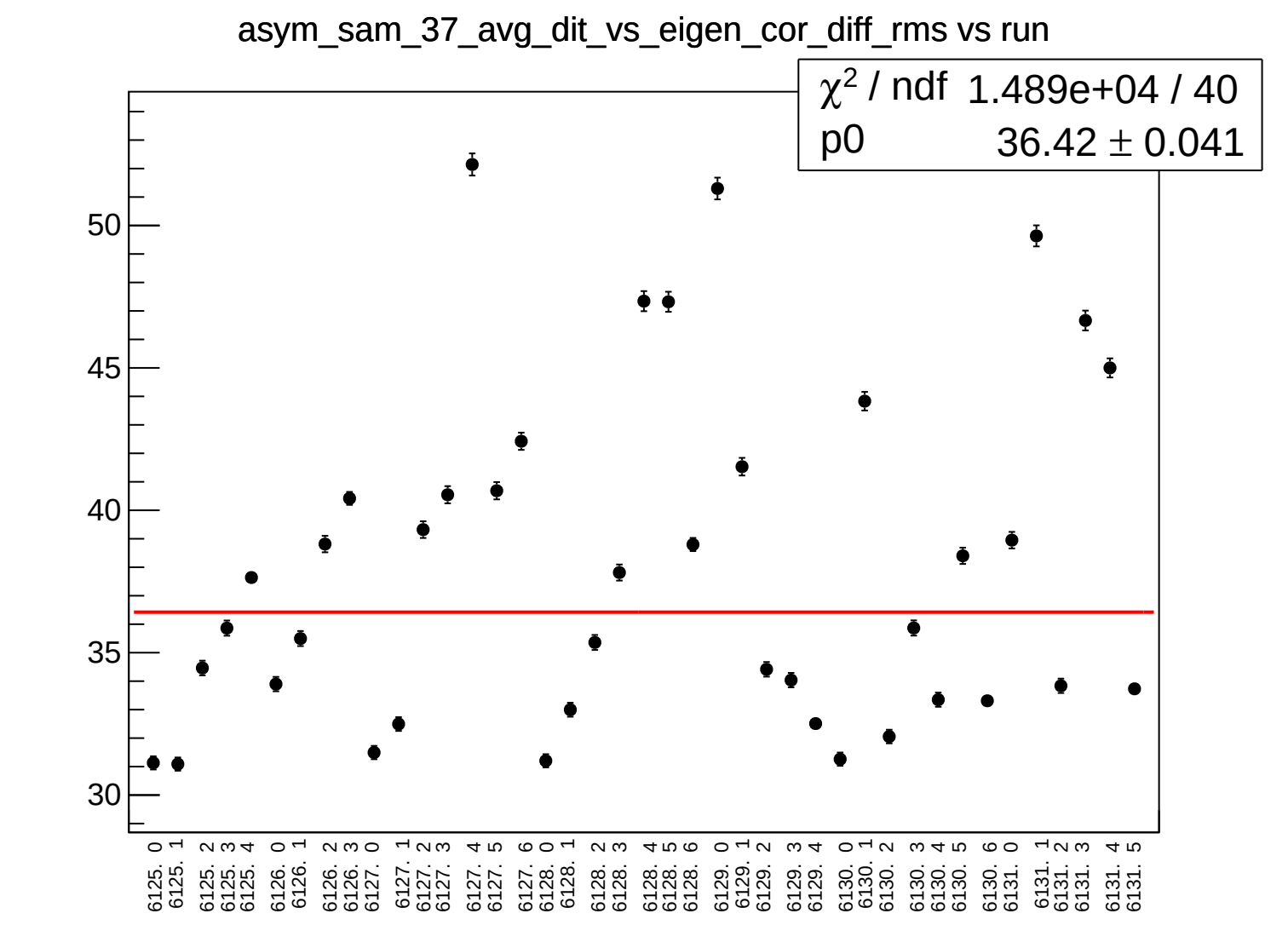

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 38.13 / 40
p0 0.08478 ± 0.05798
pull
Entries 41
Mean −131.6
Std Dev 0

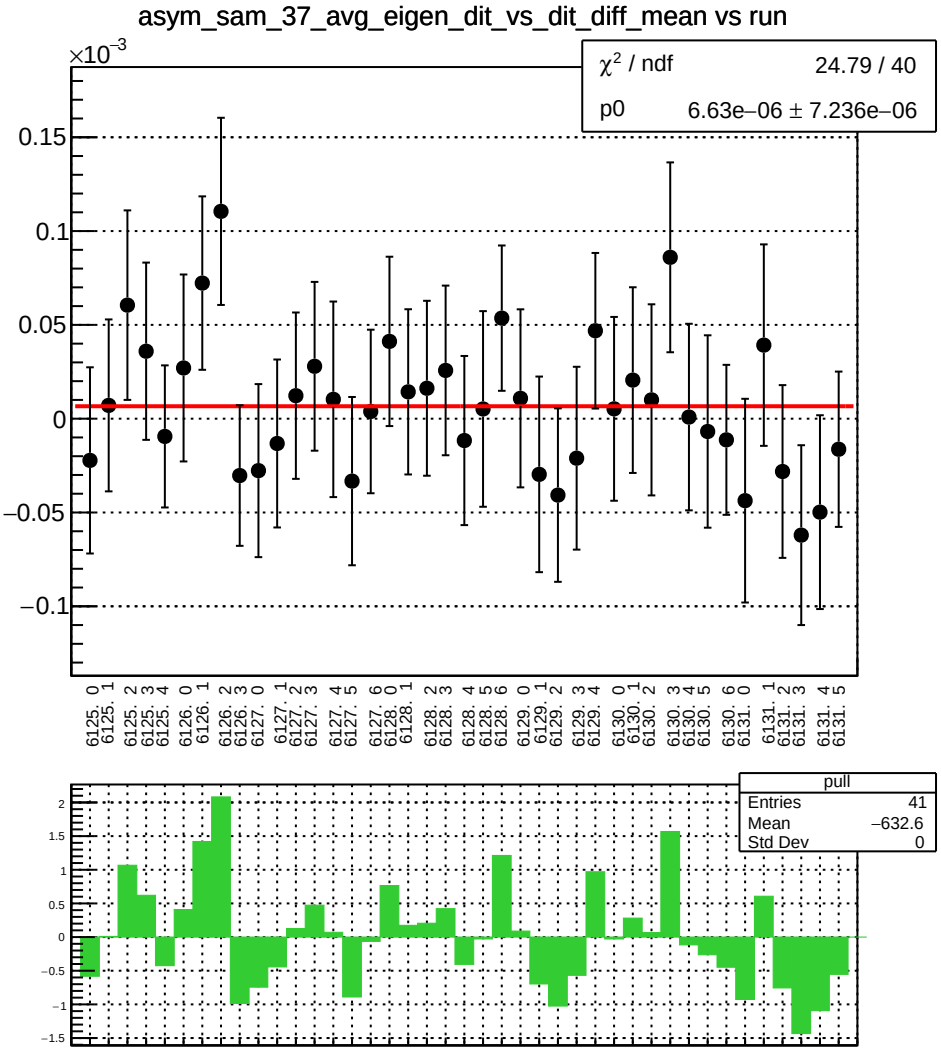

pull1D
Entries 41
Mean 0.02356
Std Dev 0.9641

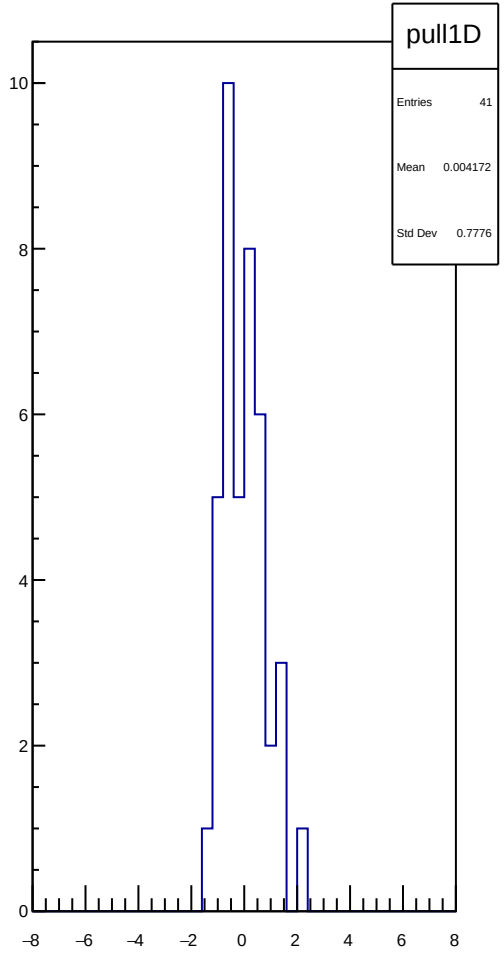

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.489e+04 / 40
p0 36.42 ± 0.041
50
45
40
35
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

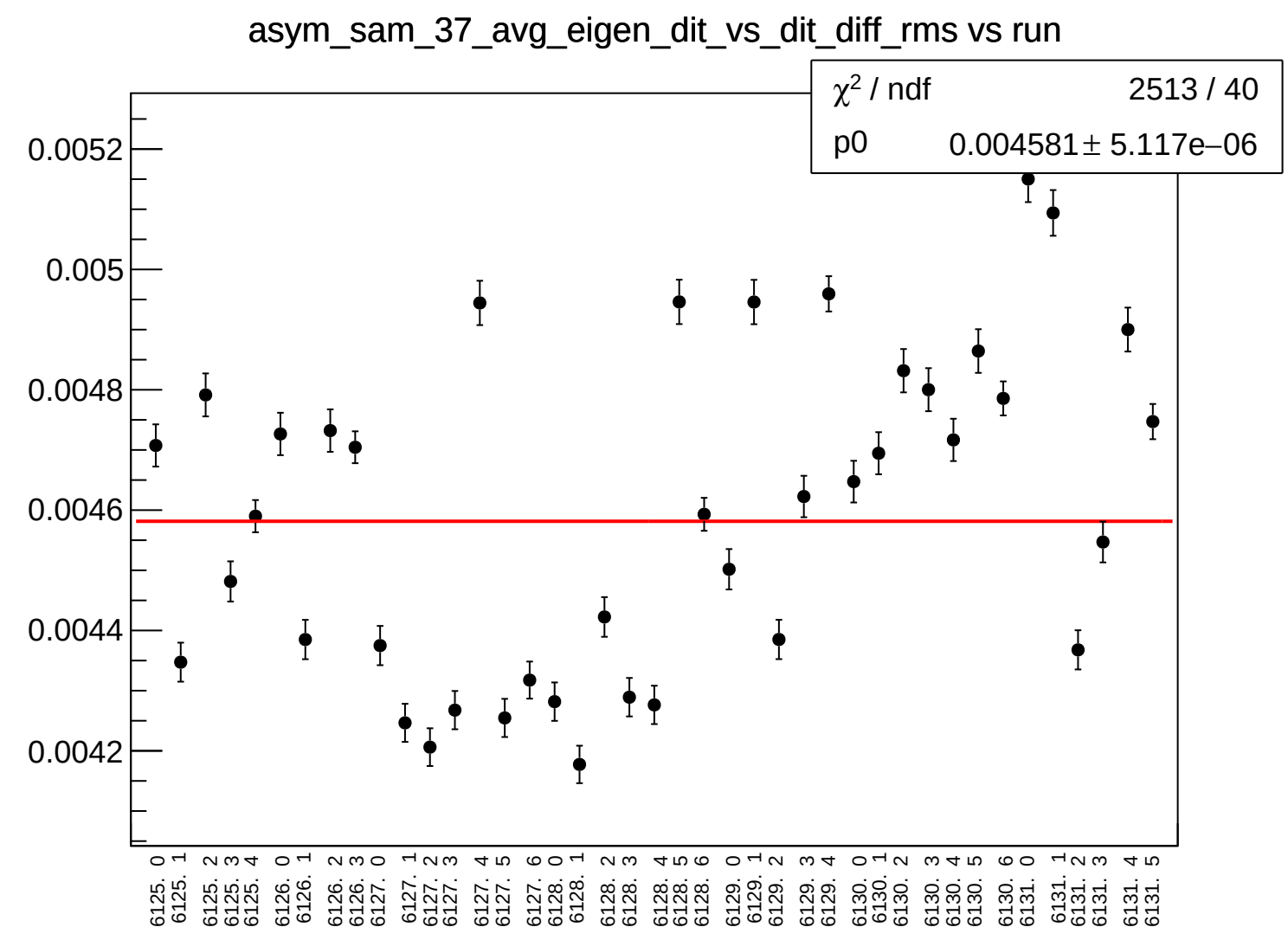

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.13 / 40
p0 0.08478 ± 0.05798
pull
Entries 41
Mean −131.6
Std Dev 0

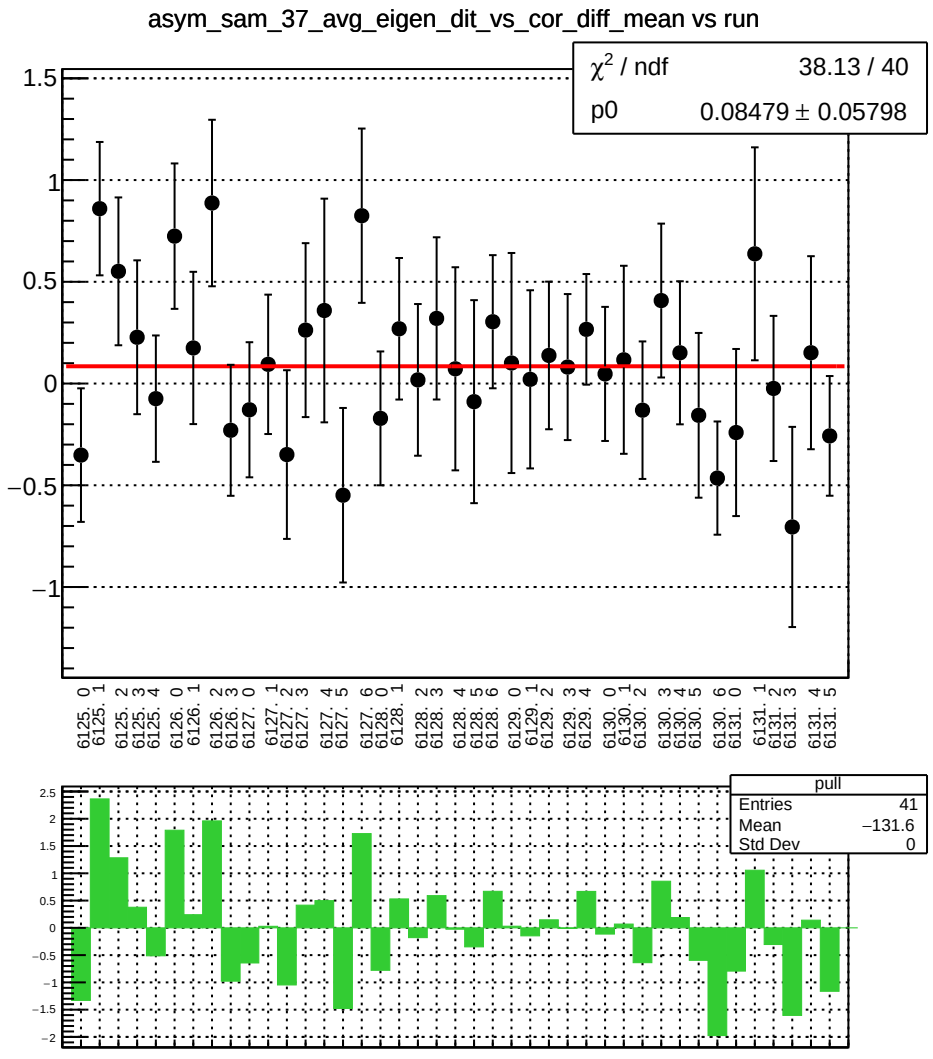

pull1D
Entries 41
Mean 0.02356
Std Dev 0.9641

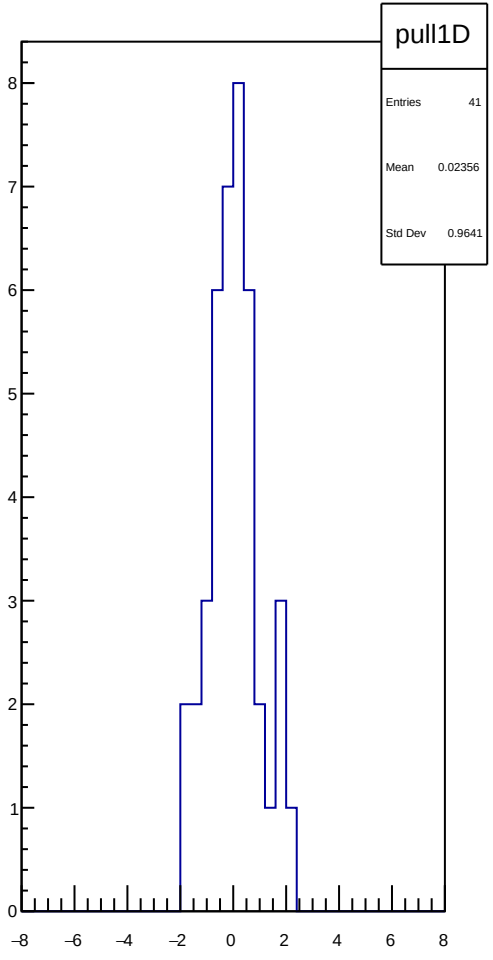

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.489e+04 / 40
p0 36.42 ± 0.041
50
45
40
35
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

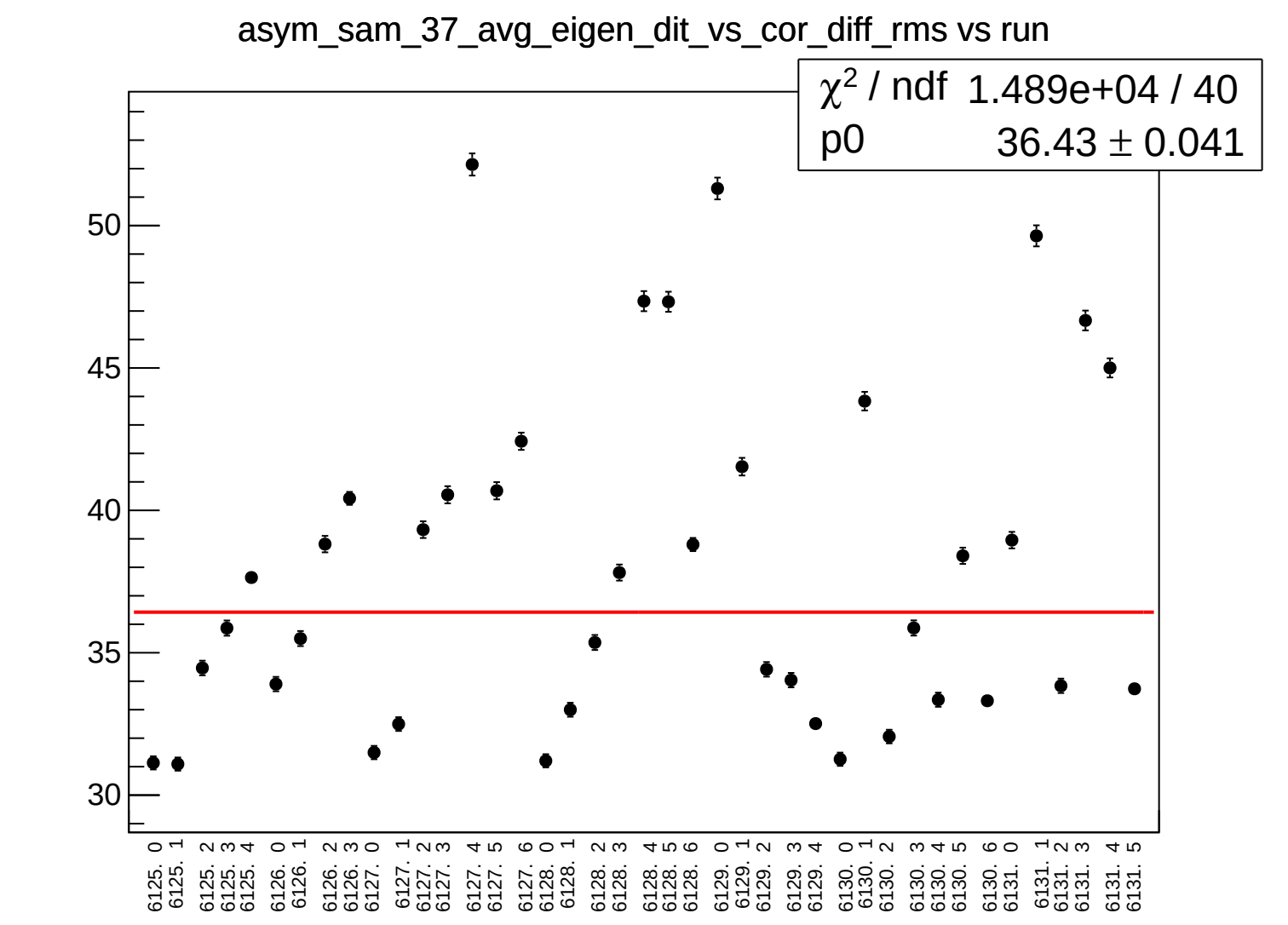

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 24.79 / 40
p0 6.63e−06 ± 7.236e−06
0.15
0.1
0.05
0
−0.05
−0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −632.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

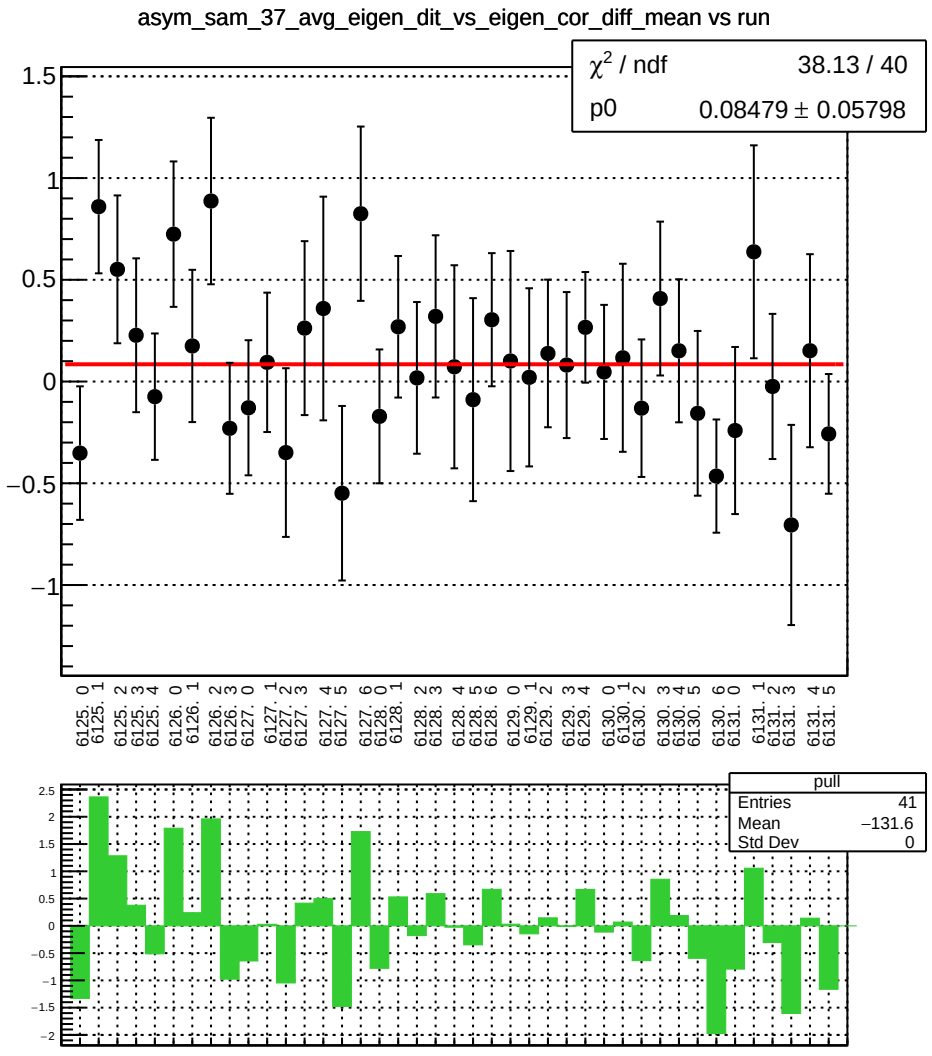

pull1D
Entries 41
Mean 0.004172
Std Dev 0.7776
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

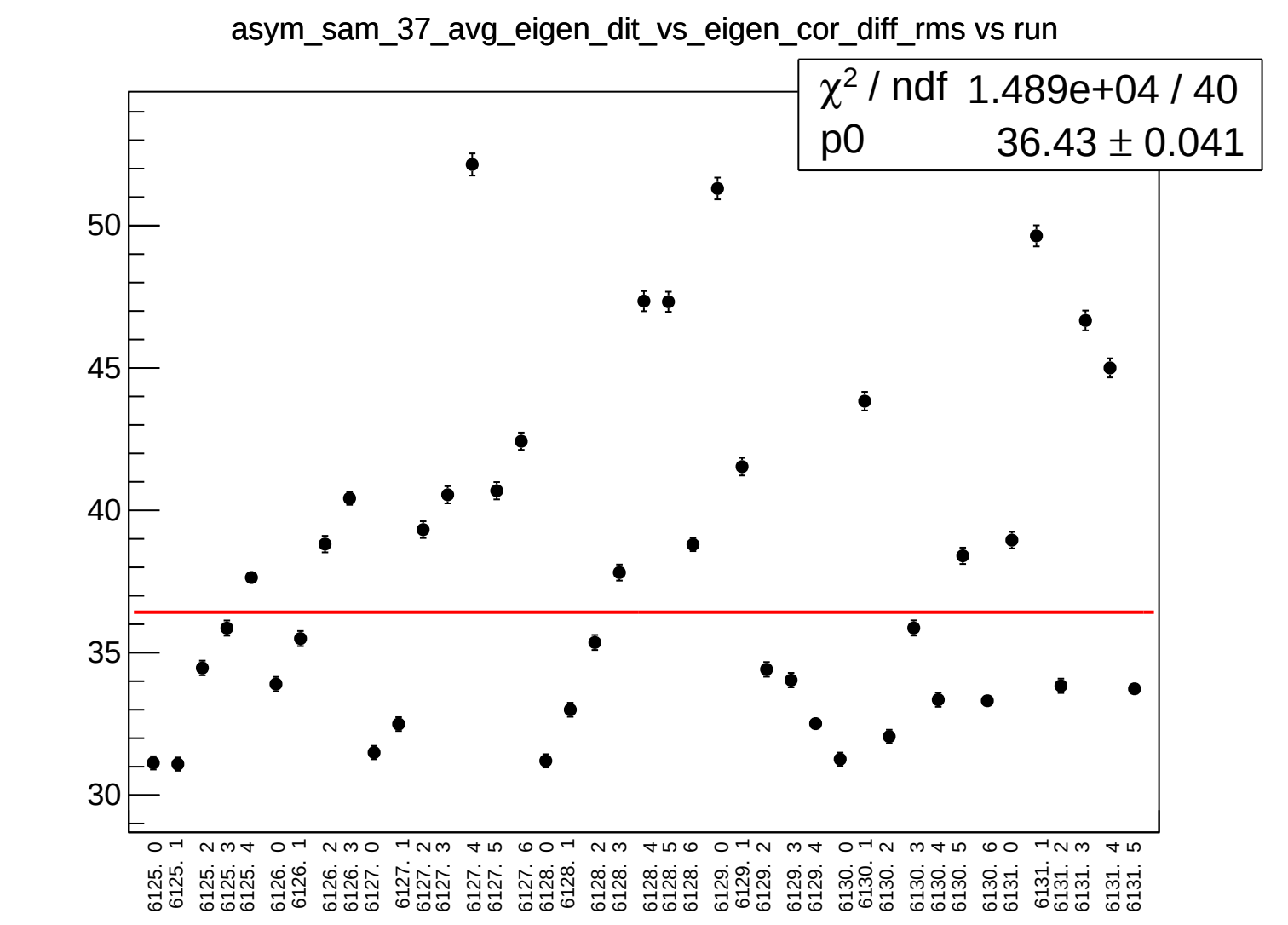

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2513 / 40
p0 0.004581 ± 5.117e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

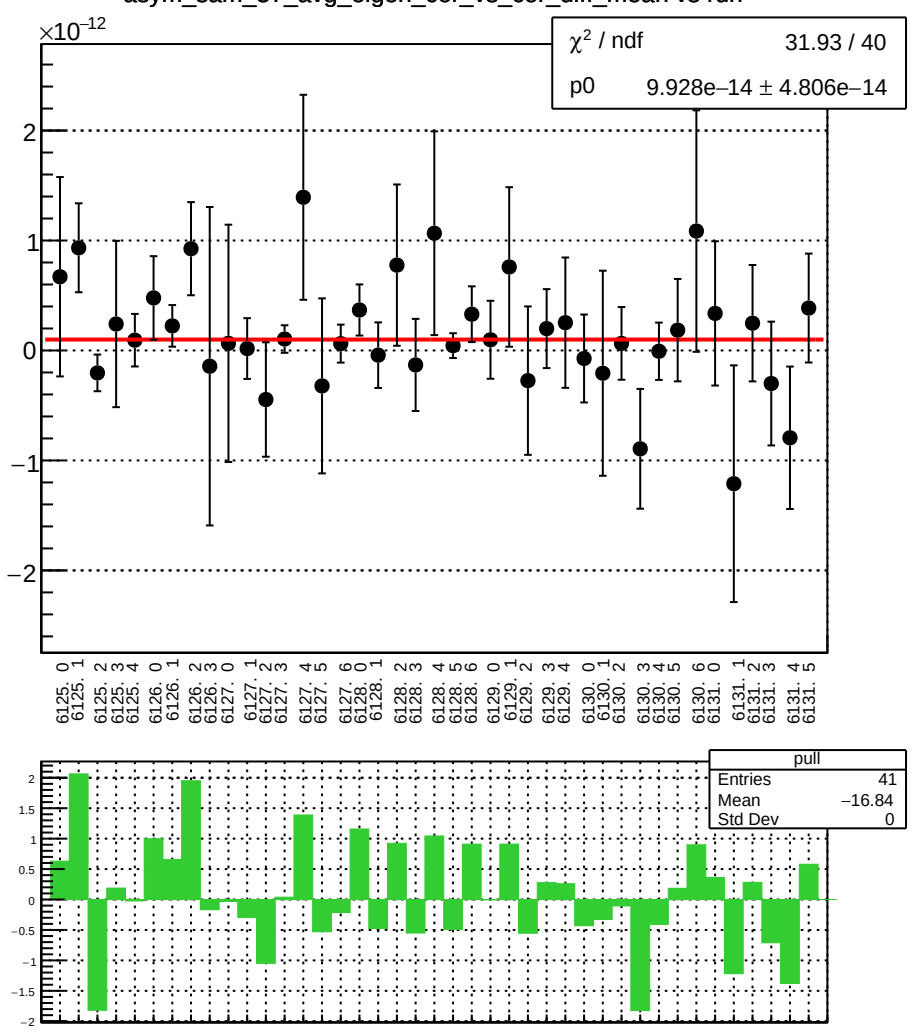

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.13 / 40
p0 0.08479 ± 0.05798
pull
Entries 41
Mean −131.6
Std Dev 0

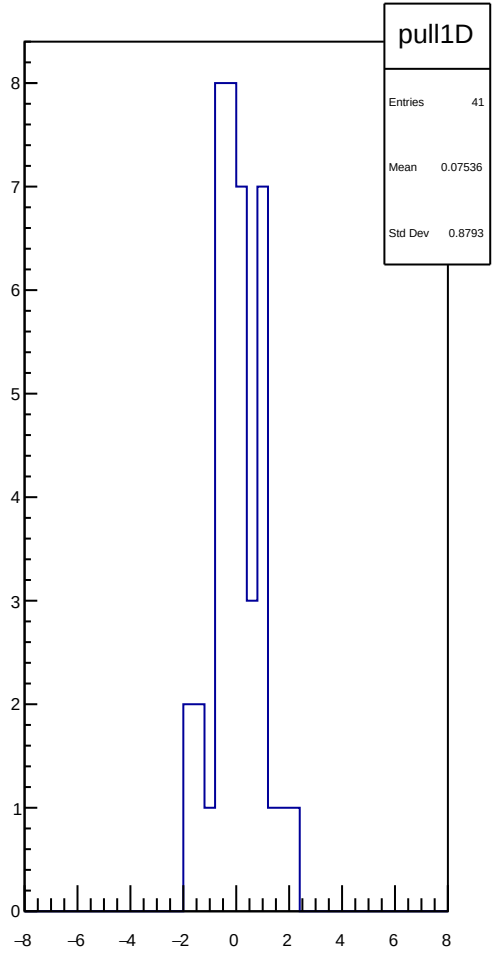

pull1D
Entries 41
Mean 0.02356
Std Dev 0.9641

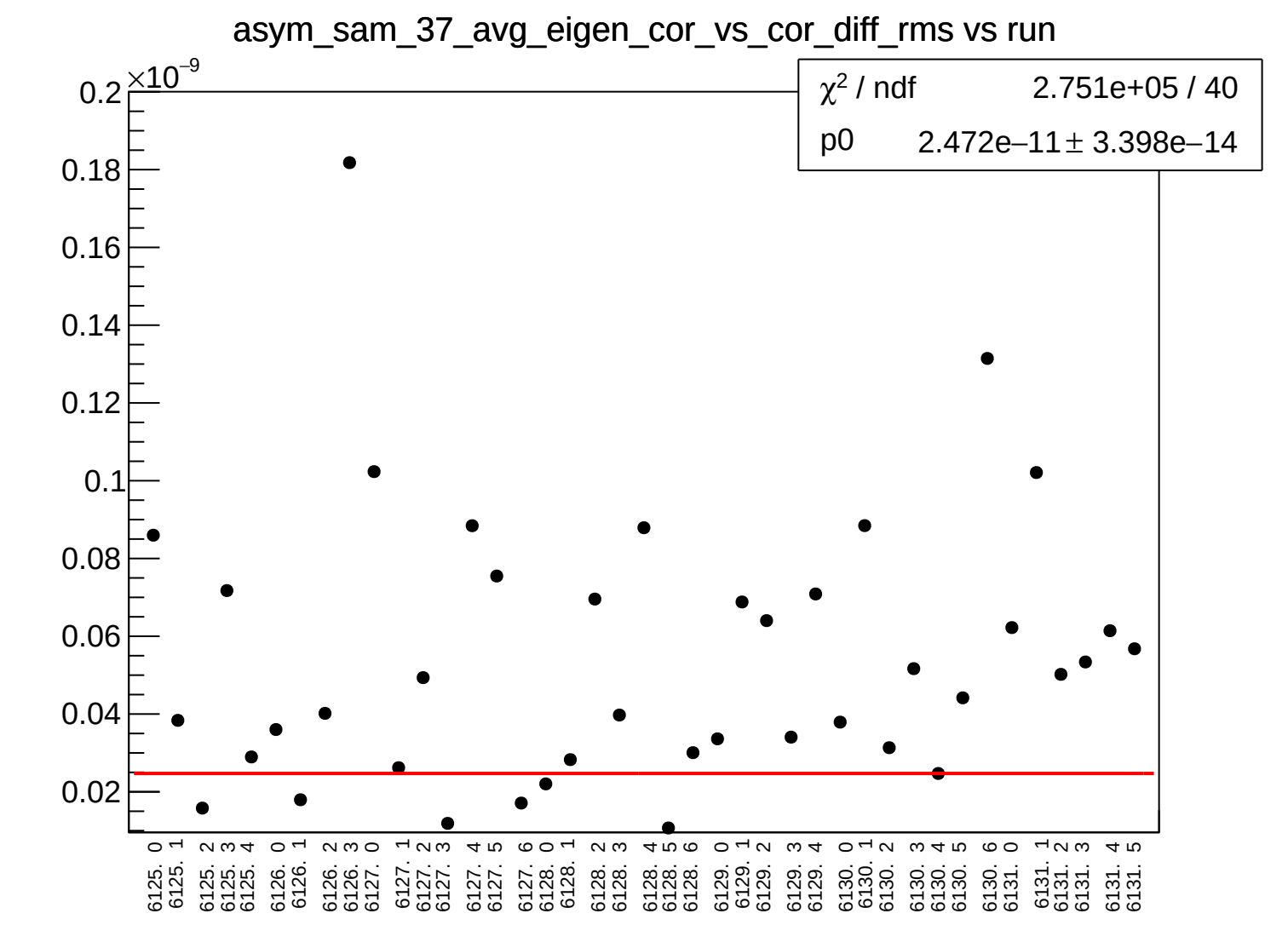

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.489e+04 / 40
p0 36.43 ± 0.041
50
45
40
35
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

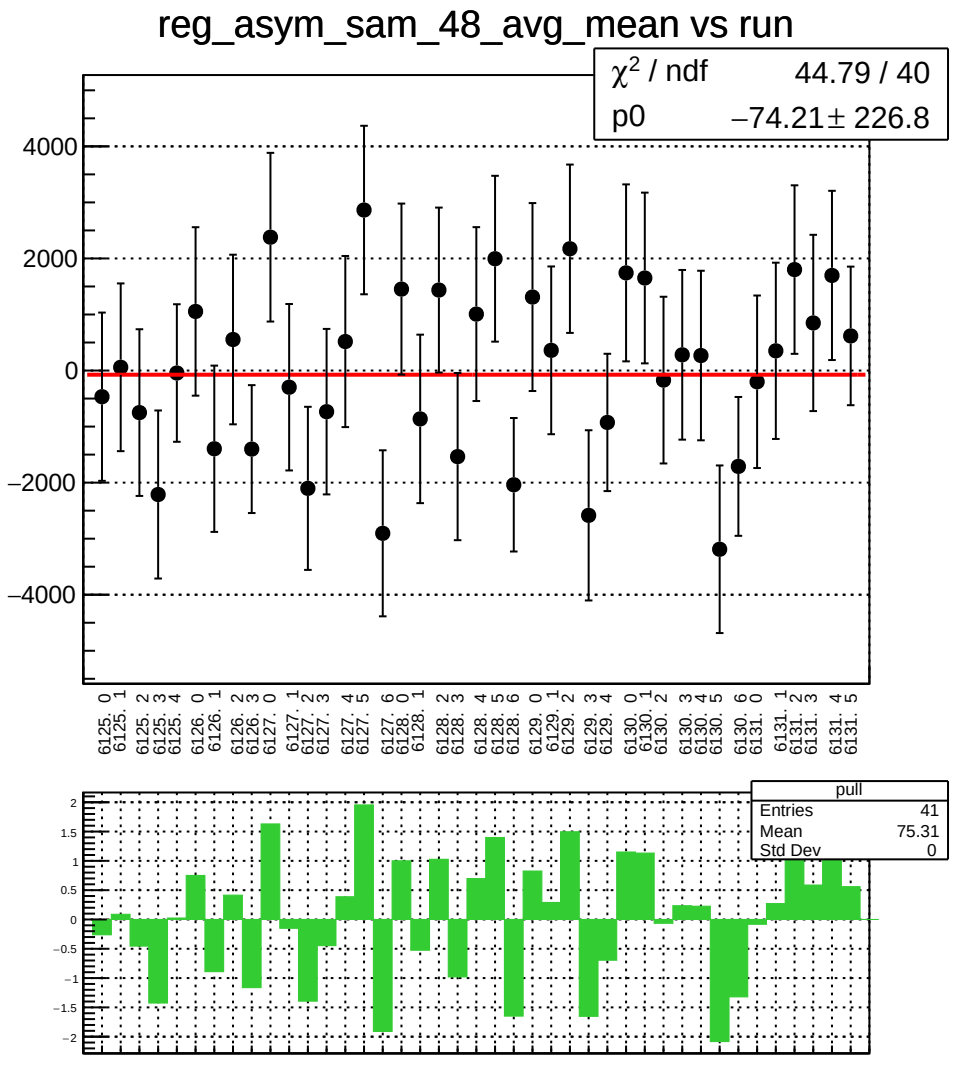

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.13 / 40
p0 0.08479 ± 0.05798
pull
Entries 41
Mean −131.6
Std Dev 0
pull1D
Entries 41
Mean 0.02356
Std Dev 0.9641

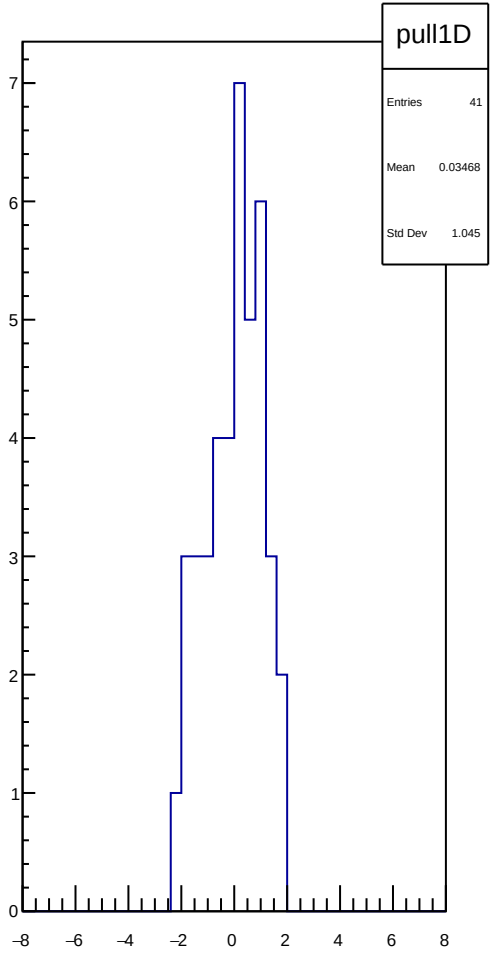

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.489e+04 / 40
p0 36.43 ± 0.041
50
45
40
35
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

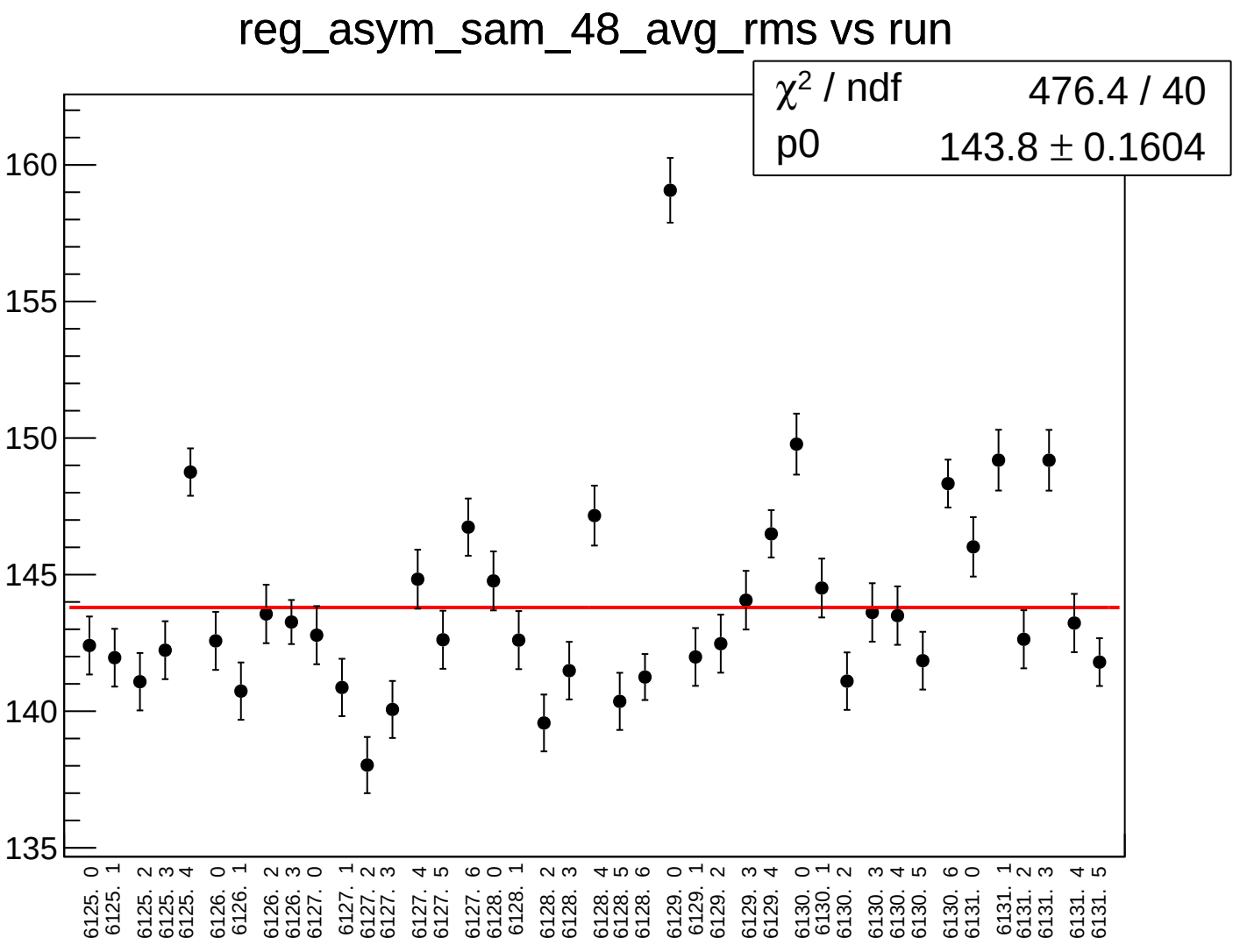

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.93 / 40
p0 9.928e−14 ± 4.806e−14
pull
Entries 41
Mean −16.84
Std Dev 0

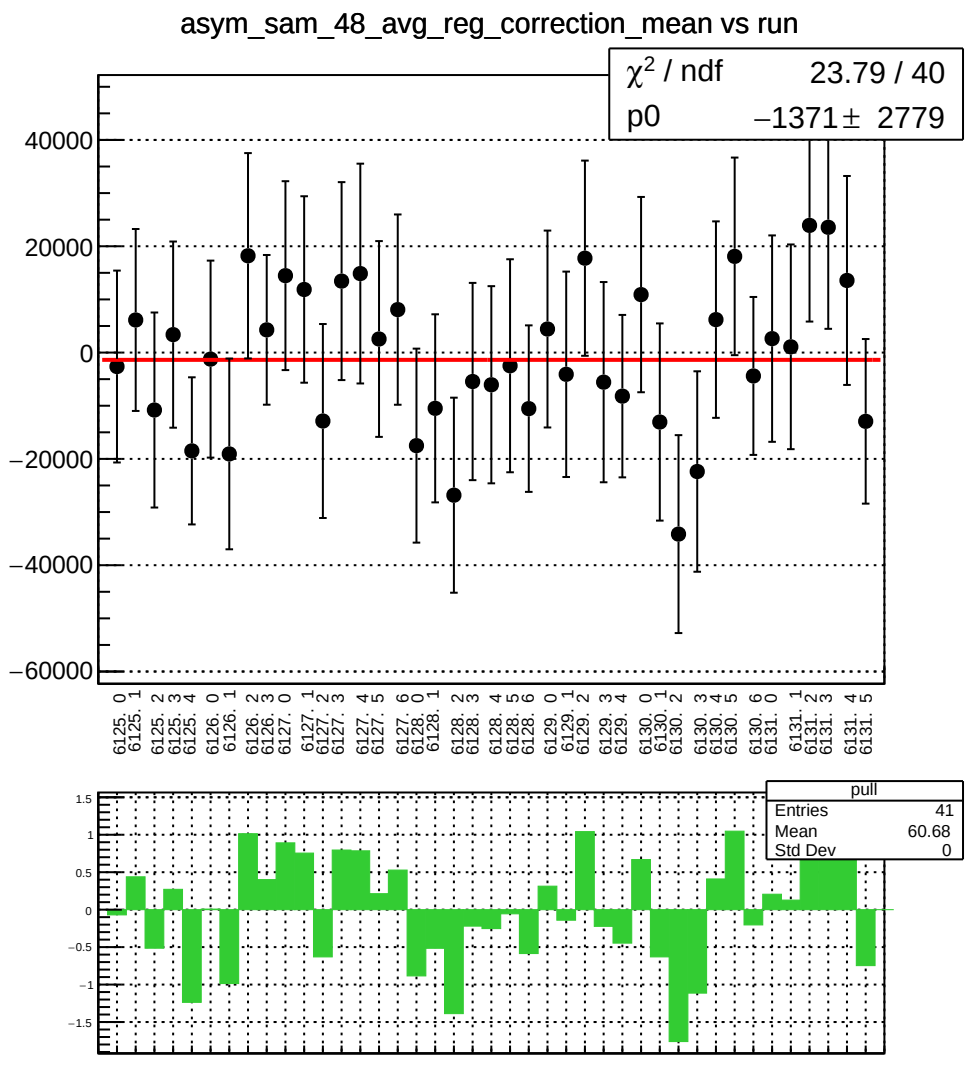

pull1D
Entries 41
Mean 0.07536
Std Dev 0.8793


asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.751e+05 / 40
p0 2.472e−11 ± 3.398e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


reg_asym_sam_48_avg_mean vs run
χ² / ndf 44.79 / 40
p0 −74.21 ± 226.8
4000
2000
0
−2000
−4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 75.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.03468
Std Dev 1.045
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 476.4 / 40
p0 143.8 ± 0.1604
160
155
150
145
140
135
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 23.79 / 40
p0 −1371 ± 2779
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 60.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.01889
Std Dev 0.7615
9
8
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5
4
3
2
1
0
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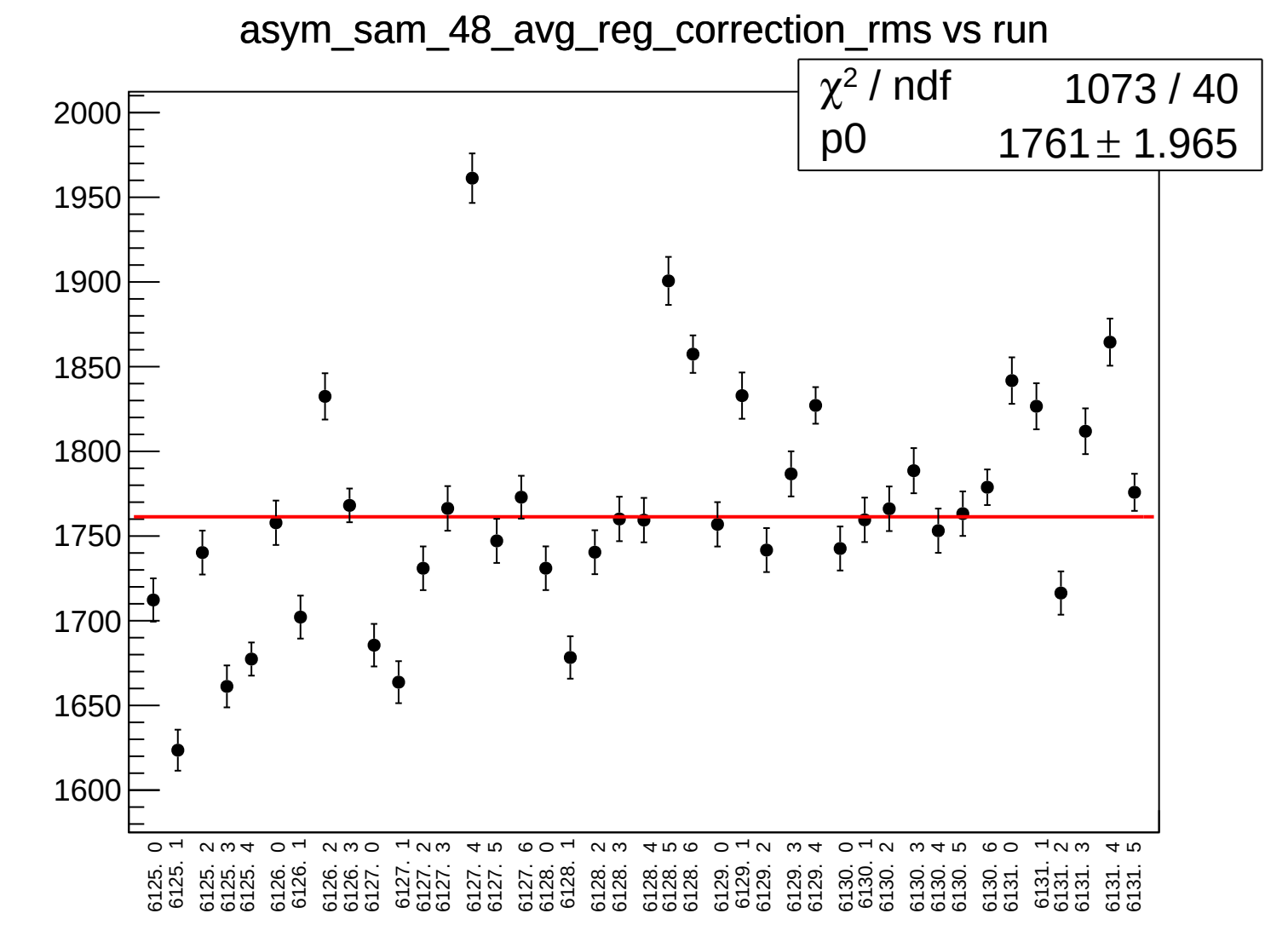
−6
−4
−2
0
2
4
6
8


asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 1073 / 40
p0 1761 ± 1.965
2000
1950
1900
1850
1800
1750
1700
1650
1600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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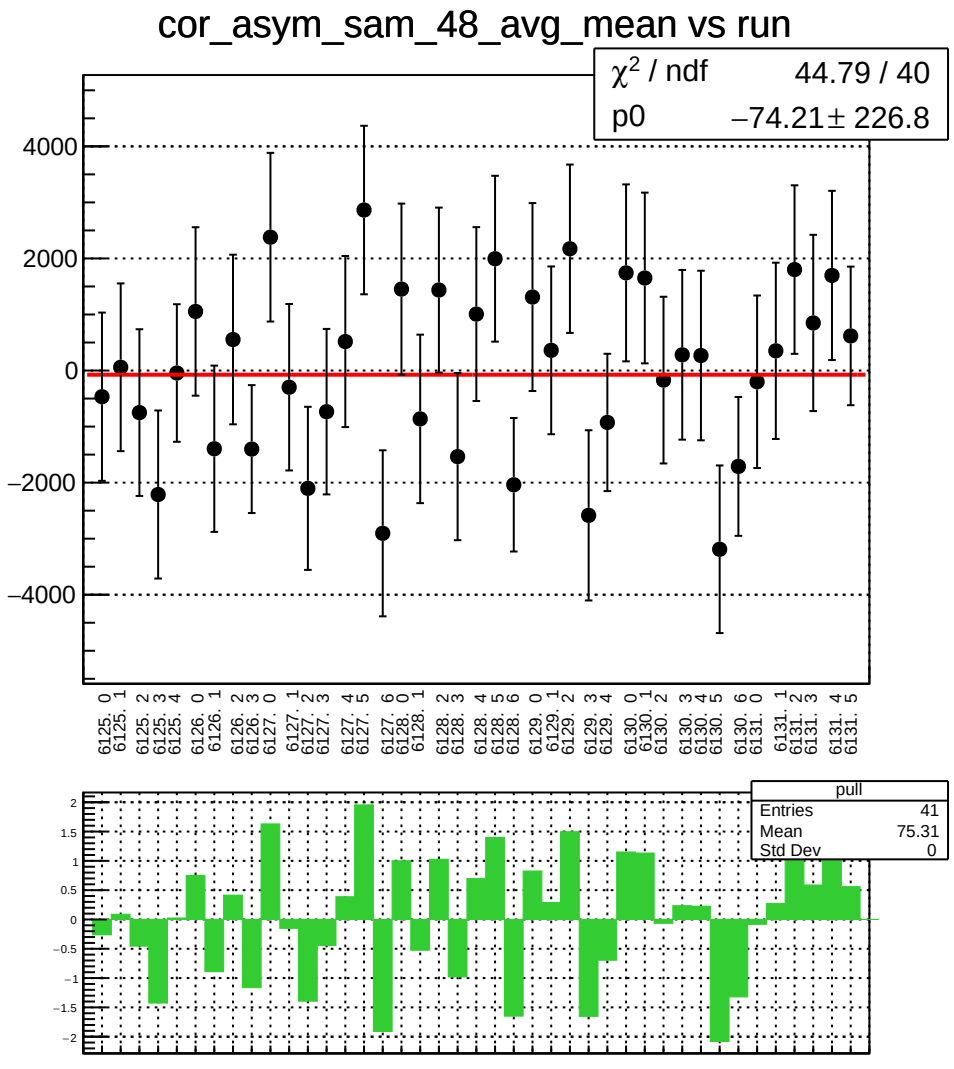
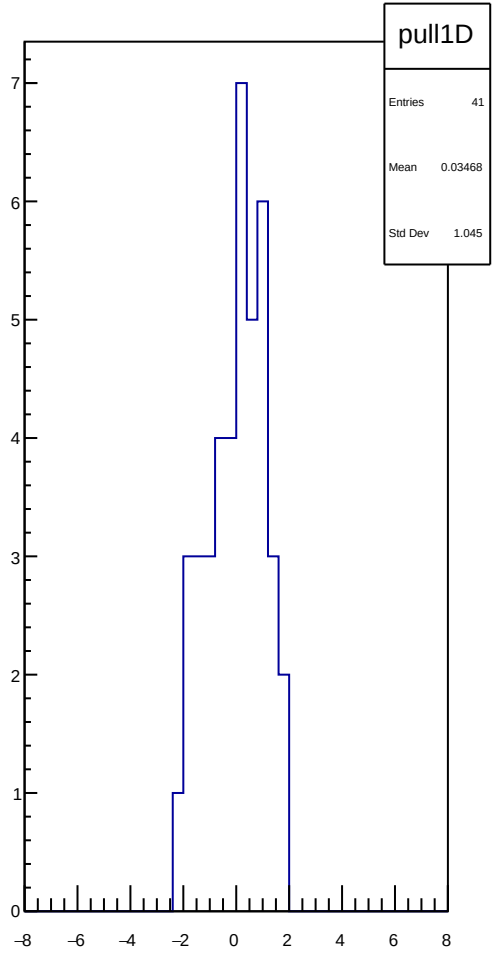
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


cor_asym_sam_48_avg_mean vs run
χ² / ndf 44.79 / 40
p0 −74.21 ± 226.8
4000
2000
0
−2000
−4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 75.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.03468
Std Dev 1.045
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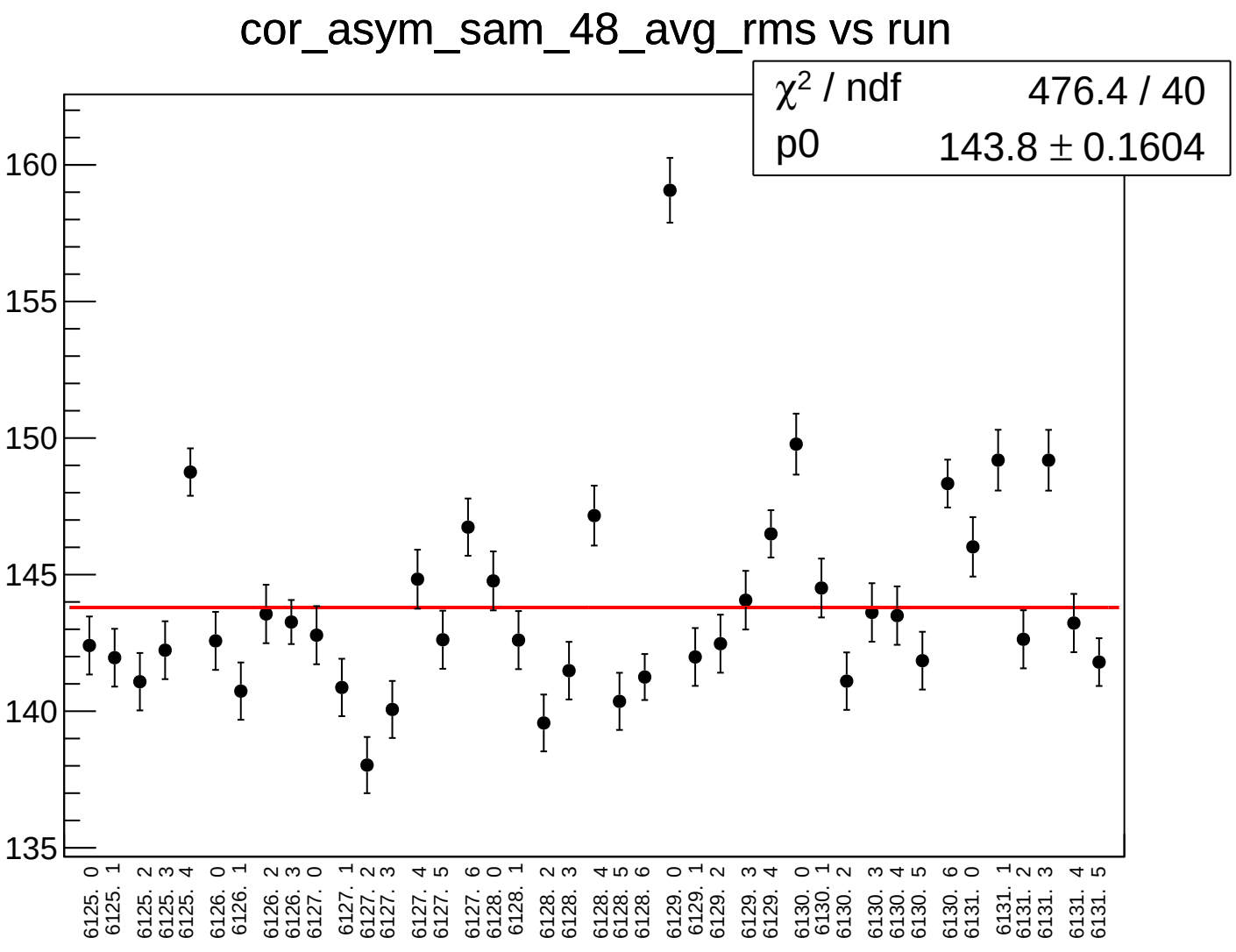
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_48_avg_rms vs run
χ² / ndf 476.4 / 40
p0 143.8 ± 0.1604
160
155
150
145
140
135
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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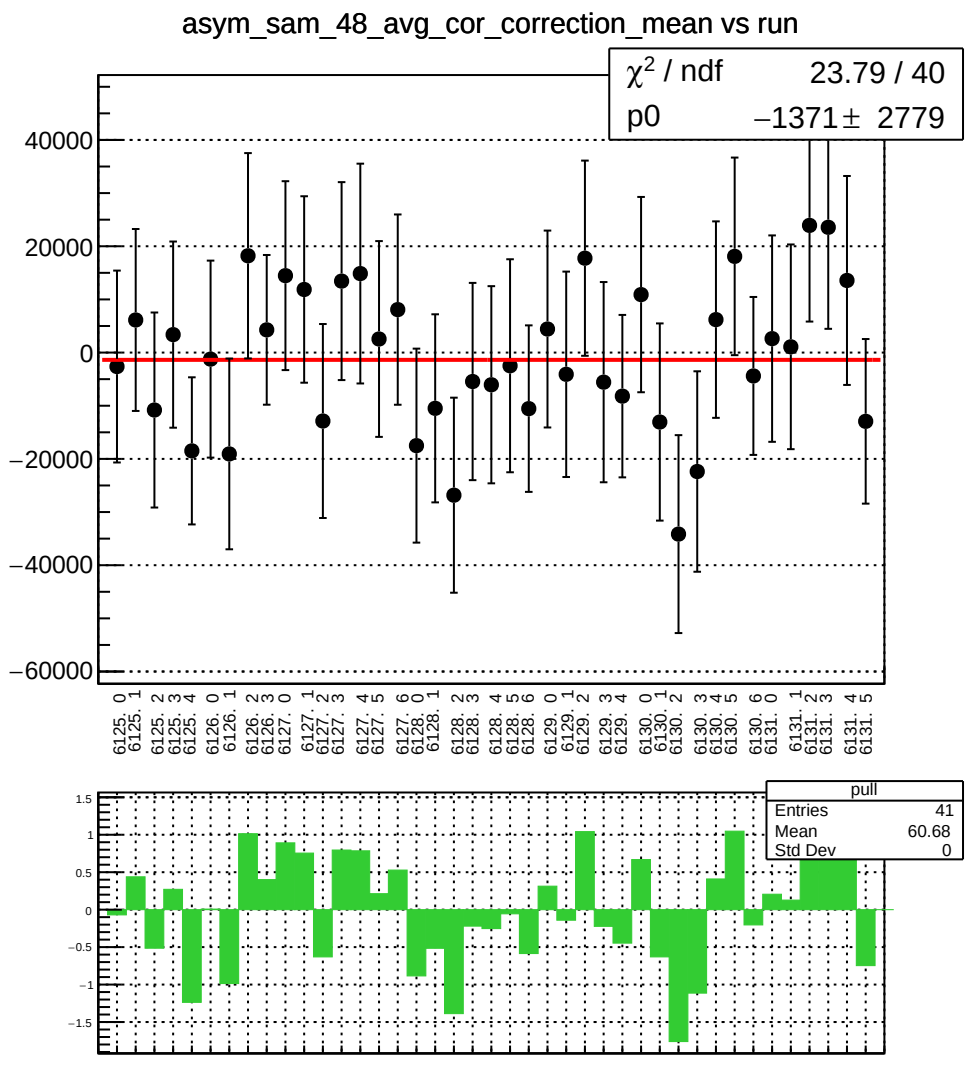
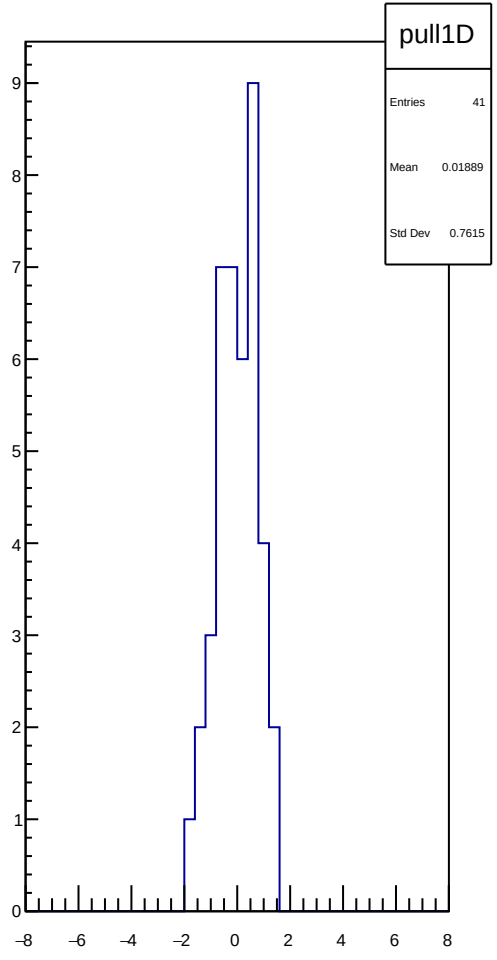
6131. 5


asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 23.79 / 40
p0 −1371 ± 2779
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 60.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.01889
Std Dev 0.7615
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8
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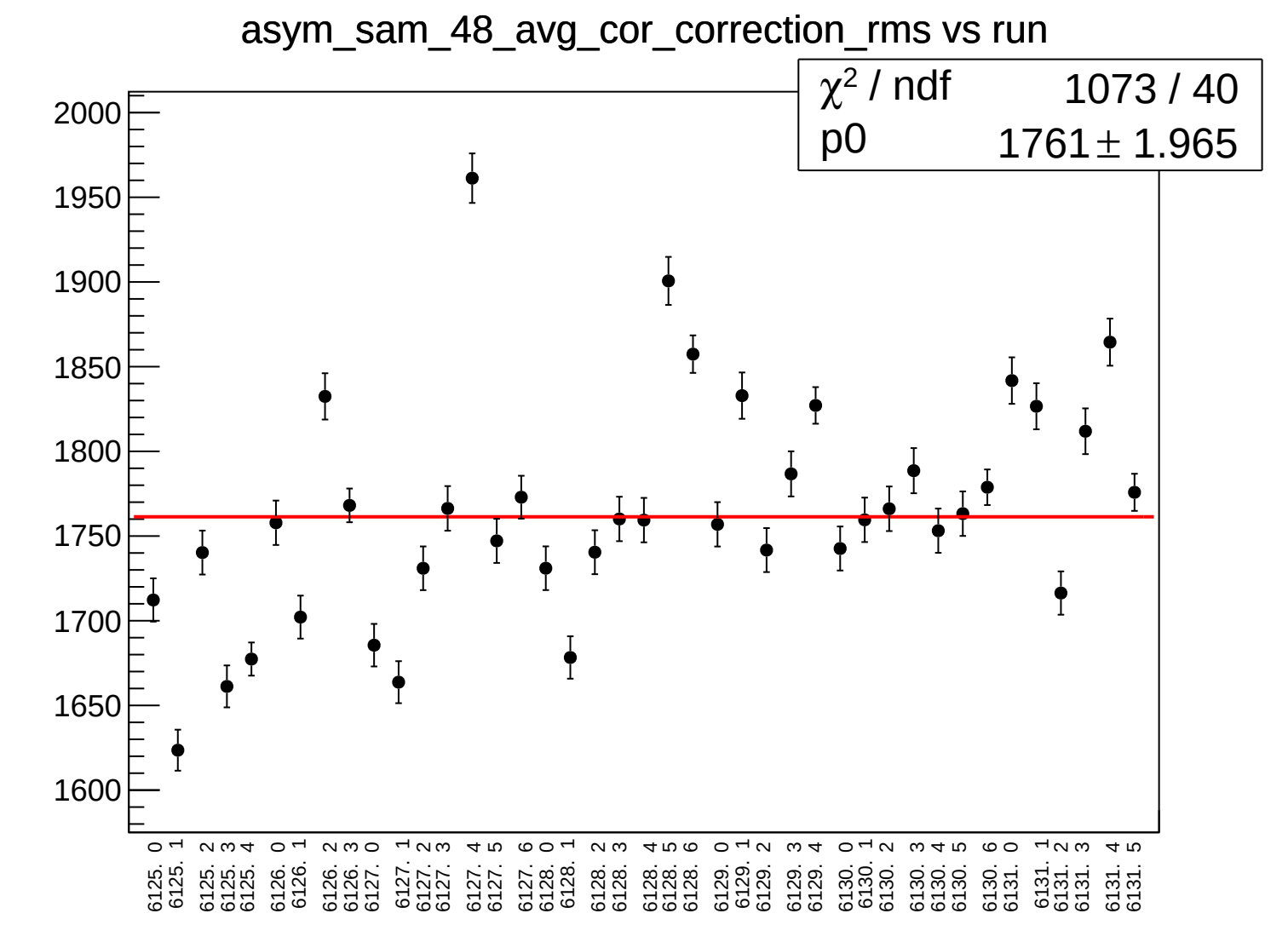
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 1073 / 40
p0 1761 ± 1.965
2000
1950
1900
1850
1800
1750
1700
1650
1600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6130. 5
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6131. 0
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6131. 2
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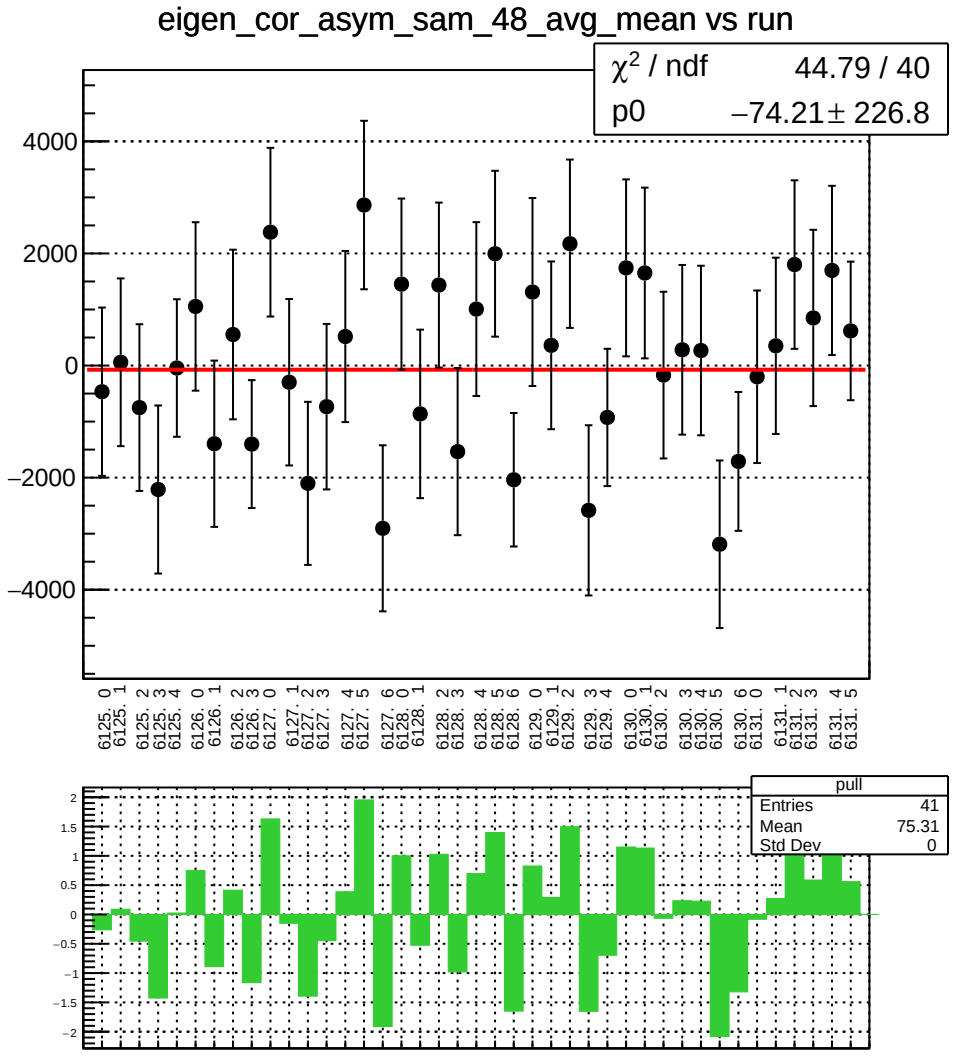
6131. 5


eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 44.79 / 40
p0 −74.21± 226.8
4000
2000
0
−2000
−4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
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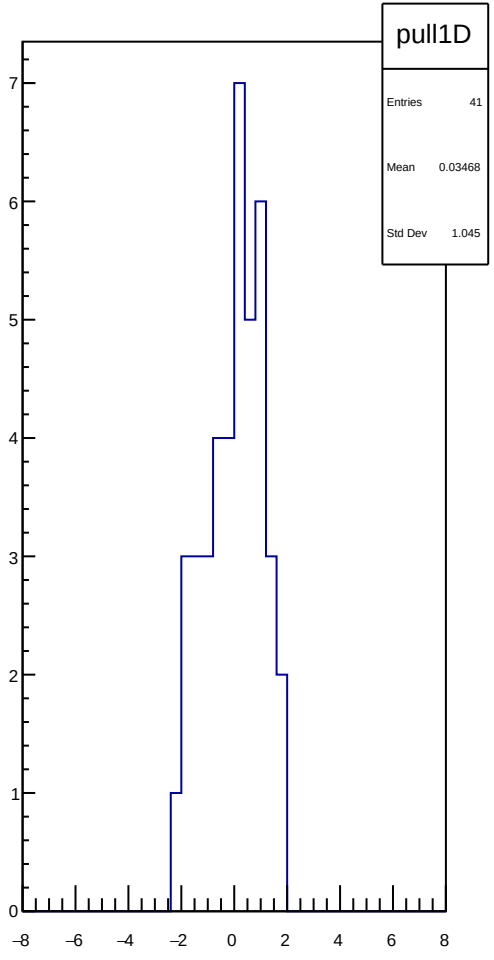
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 75.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.03468
Std Dev 1.045
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0
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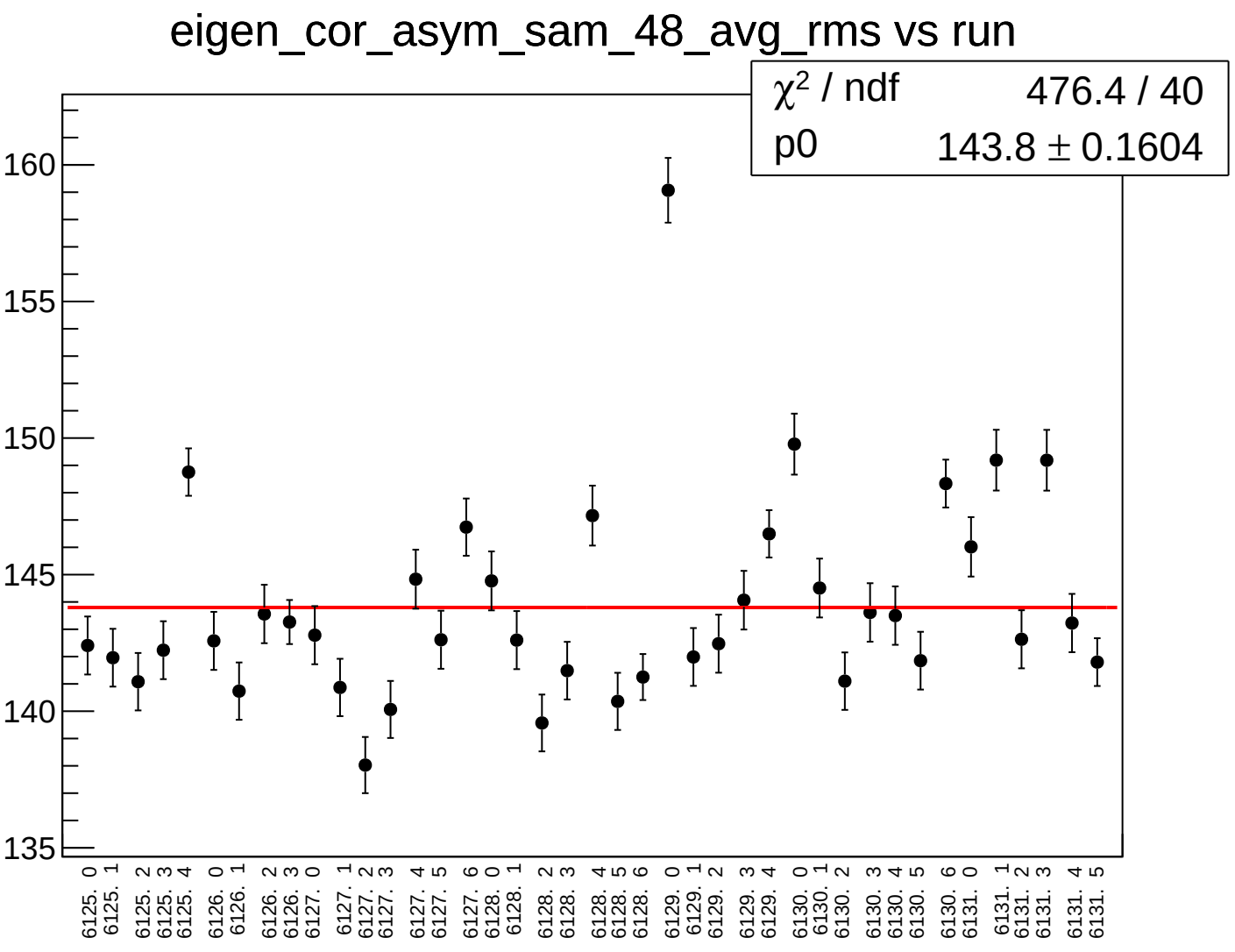
eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 476.4 / 40
p0 143.8 ± 0.1604
160
155
150
145
140
135
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
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6128. 3
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6128. 6
6129. 0
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6129. 2
6129. 3
6129. 4
6130. 0
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6130. 2
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6130. 6
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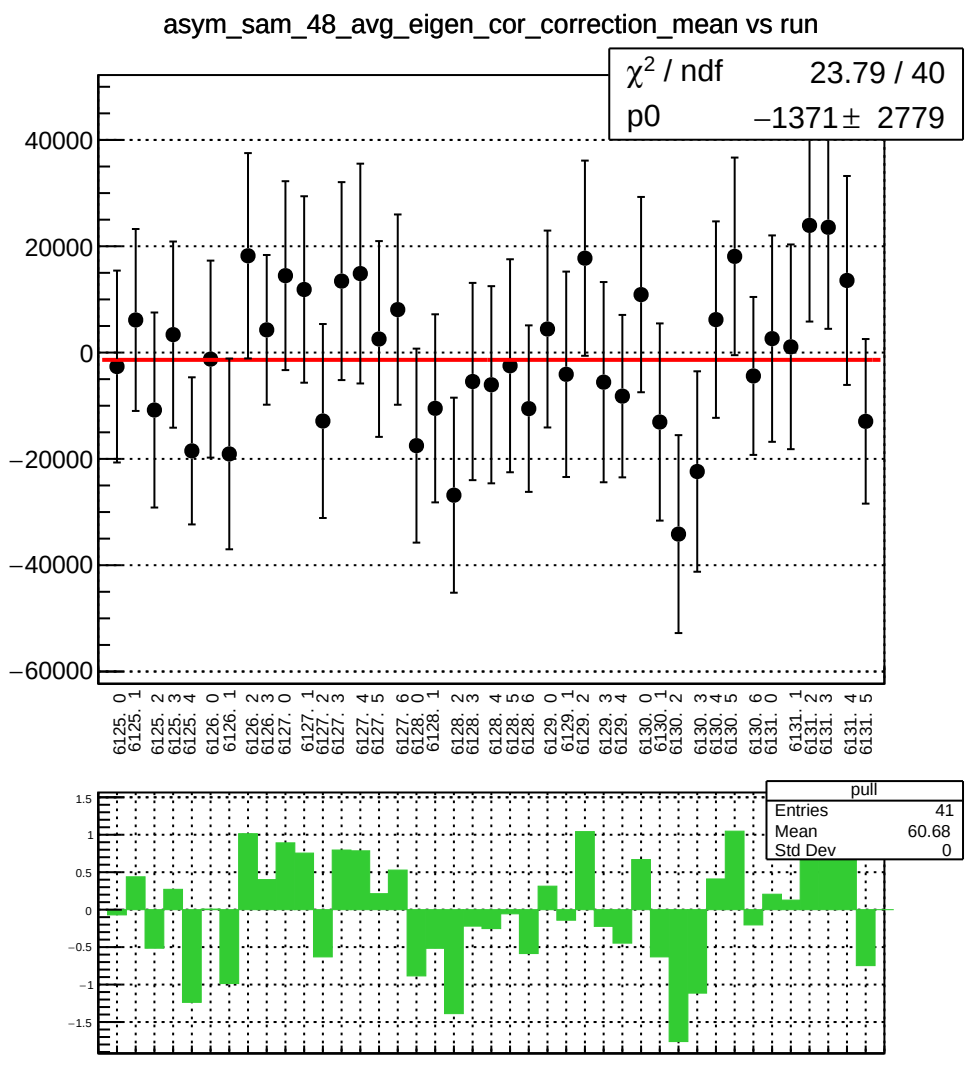
6131. 5


asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 23.79 / 40
p0 −1371 ± 2779
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
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6127. 2
6127. 3
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6128. 2
6128. 3
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6129. 3
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6130. 0
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6130. 2
6130. 3
6130. 4
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6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 60.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.01889
Std Dev 0.7615
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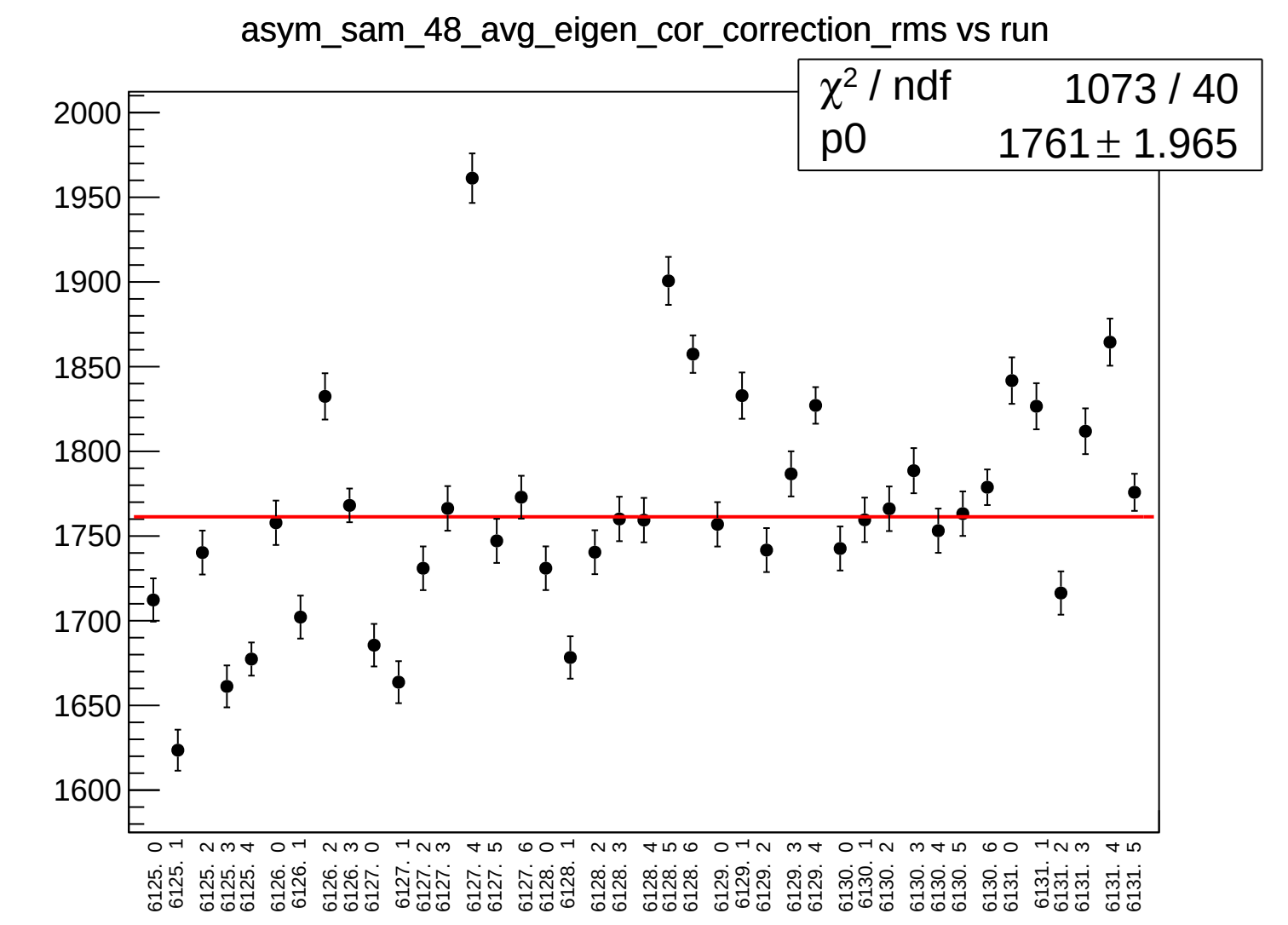
asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 1073 / 40
p0 1761 ± 1.965
2000
1950
1900
1850
1800
1750
1700
1650
1600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
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6127. 5
6127. 6
6128. 0
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6128. 3
6128. 4
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6128. 6
6129. 0
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6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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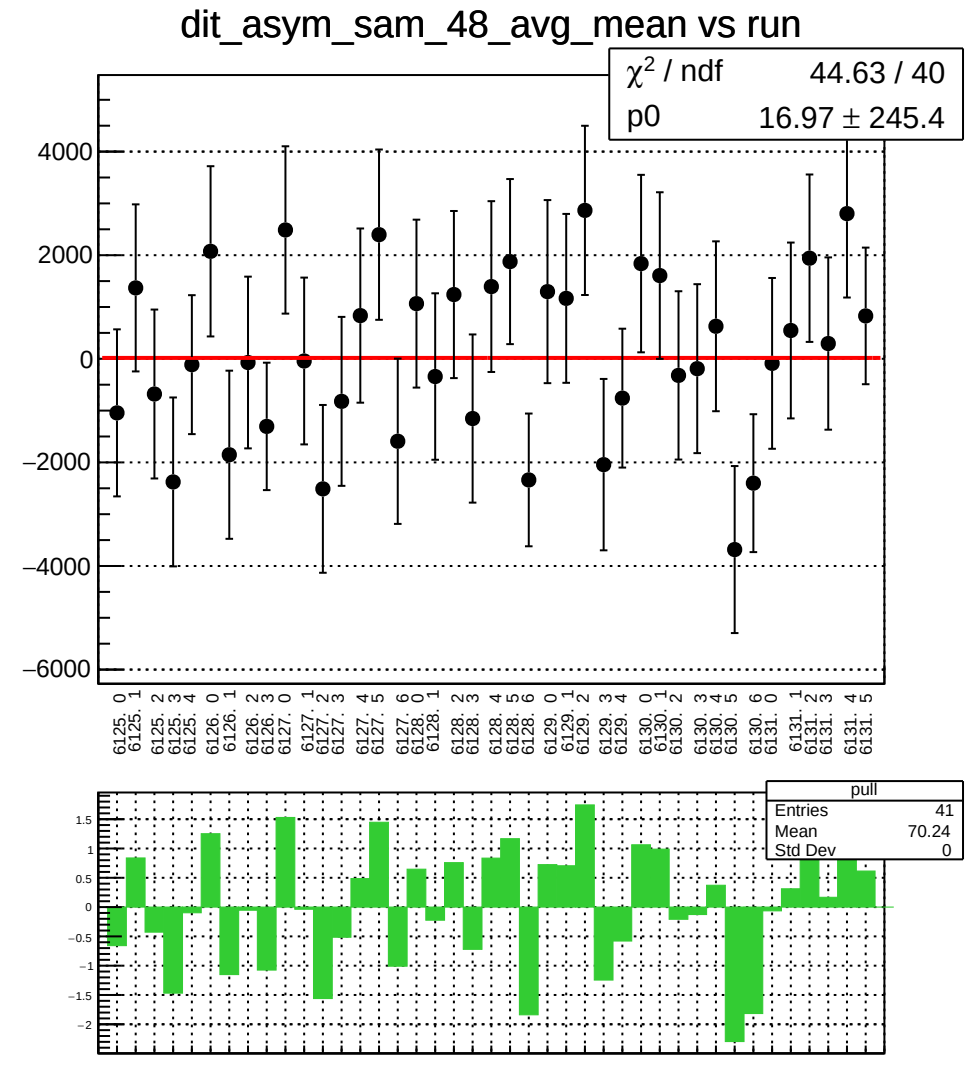
6131. 4
6131. 5


dit_asym_sam_48_avg_mean vs run
χ² / ndf 44.63 / 40
p0 16.97 ± 245.4
4000
2000
0
−2000
−4000
−6000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
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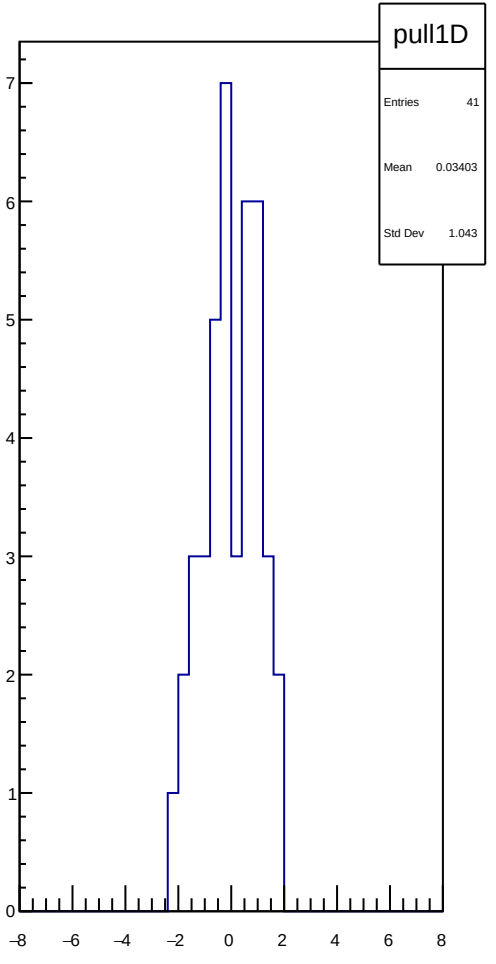
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 70.24
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.03403
Std Dev 1.043
7
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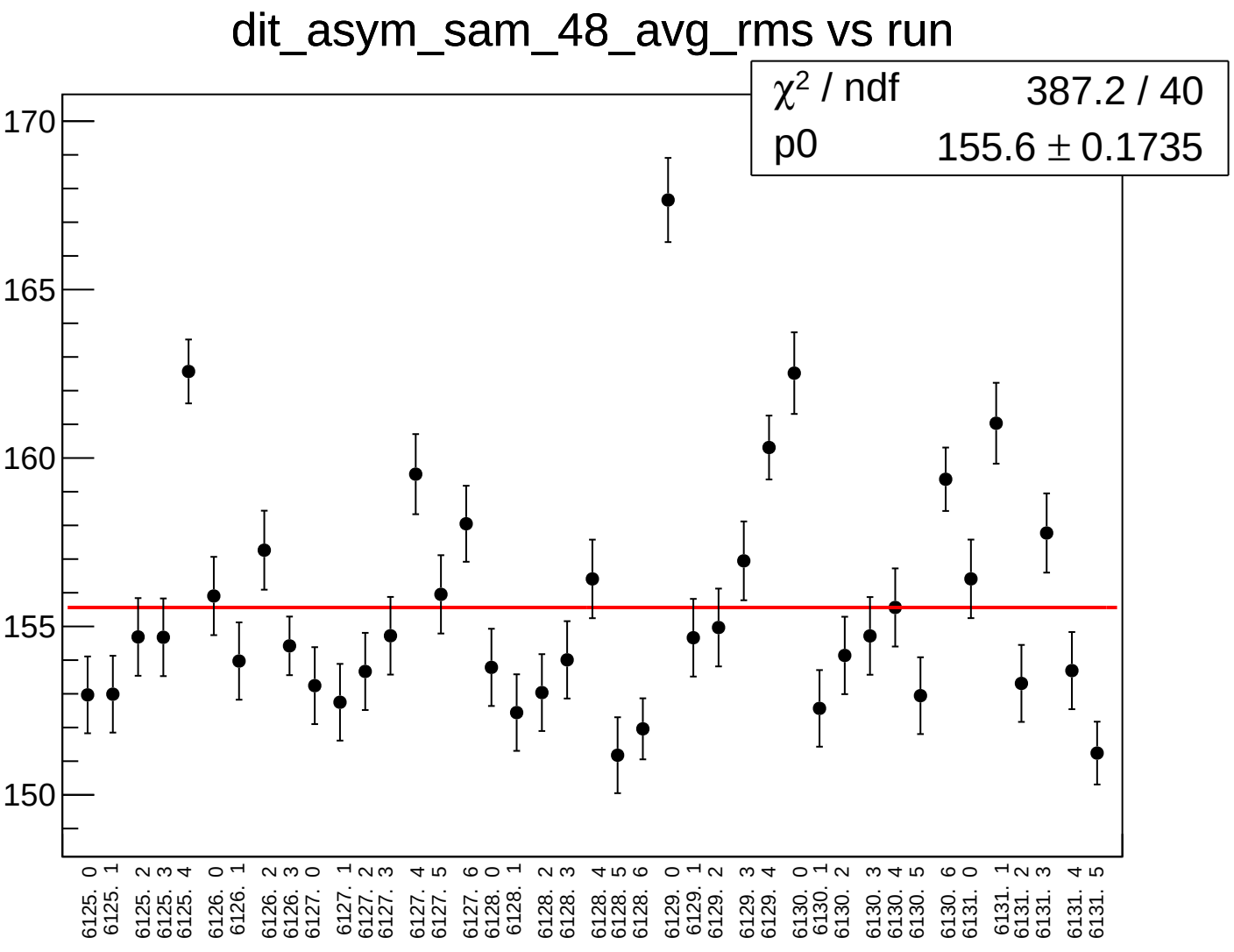
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_48_avg_rms vs run
χ² / ndf 387.2 / 40
p0 155.6 ± 0.1735
170
165
160
155
150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
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6127. 5
6127. 6
6128. 0
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6128. 2
6128. 3
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6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
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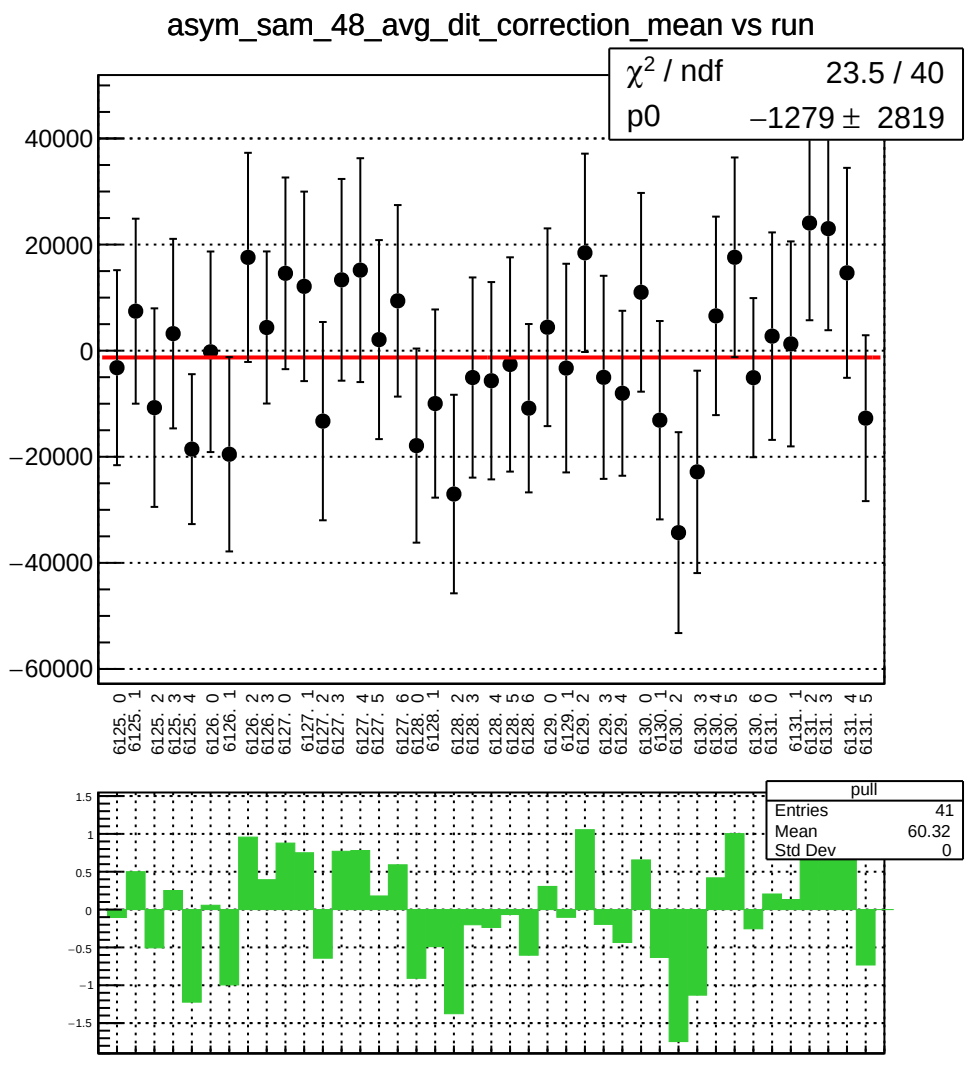
6131. 4
6131. 5


asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 23.5 / 40
p0 −1279 ± 2819
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6128. 6
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6129. 2
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6130. 0
6130. 1
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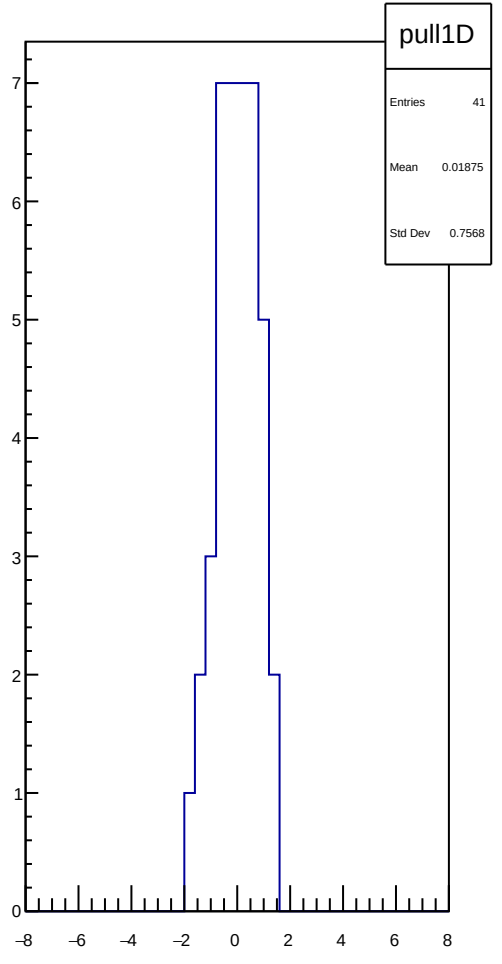
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 60.32
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.01875
Std Dev 0.7568
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5
4
3
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1
0
−8
−6
−4
−2
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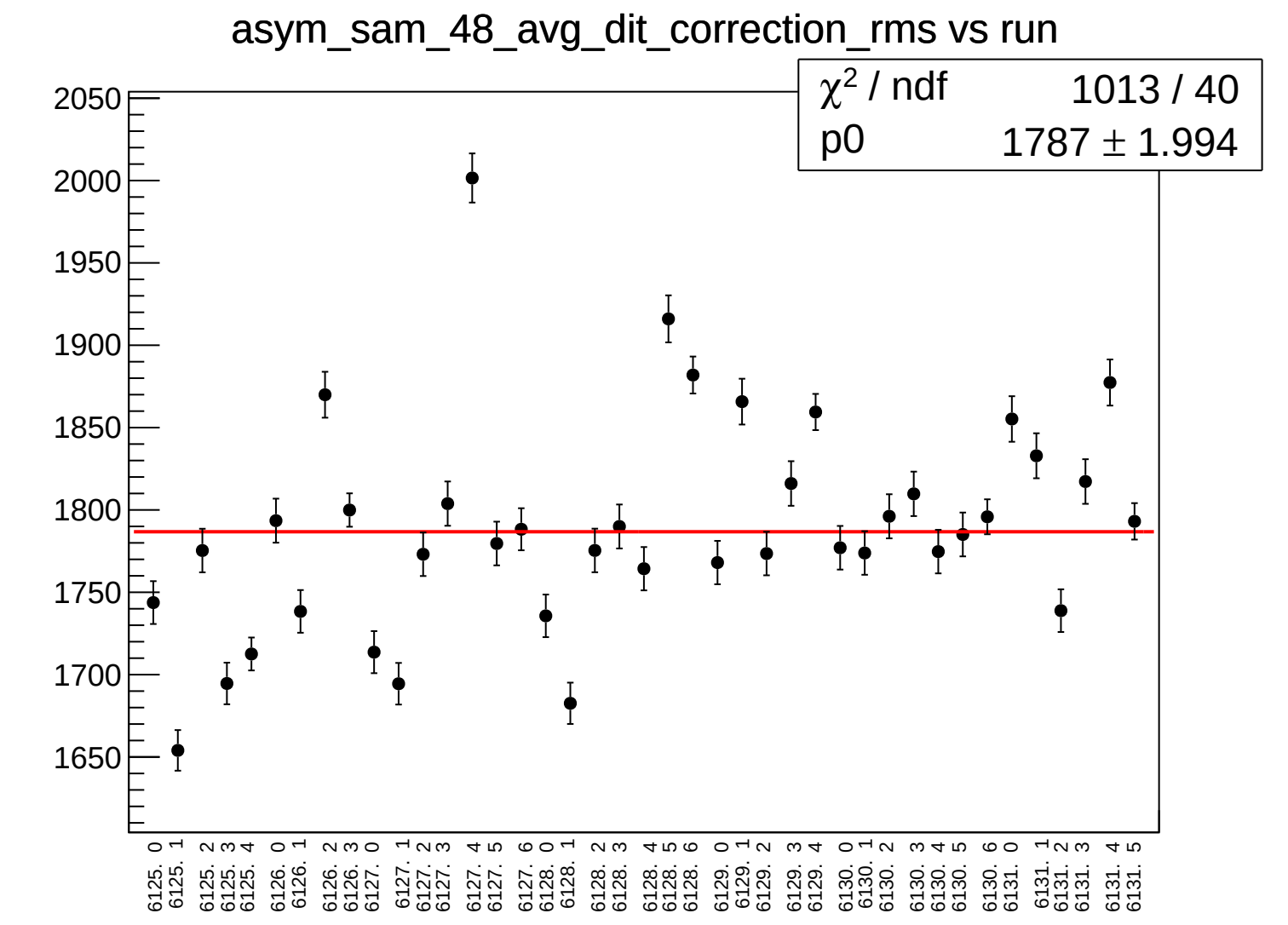
2
4
6
8


asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 1013 / 40
p0 1787 ± 1.994
2050
2000
1950
1900
1850
1800
1750
1700
1650
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
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6127. 5
6127. 6
6128. 0
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6128. 2
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6128. 5
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6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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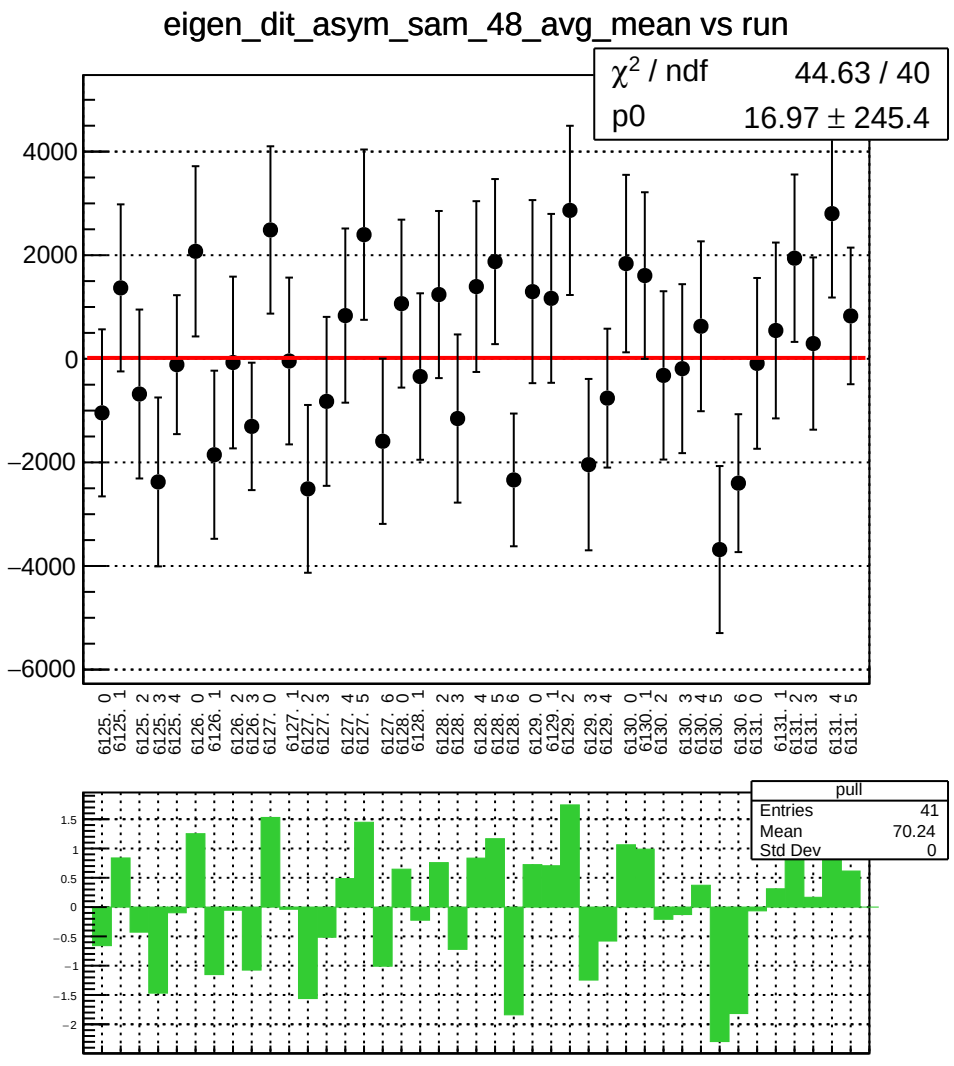
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 44.63 / 40
p0 16.97 ± 245.4
4000
2000
0
−2000
−4000
−6000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
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6127. 6
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6129. 0
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6129. 2
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6129. 4
6130. 0
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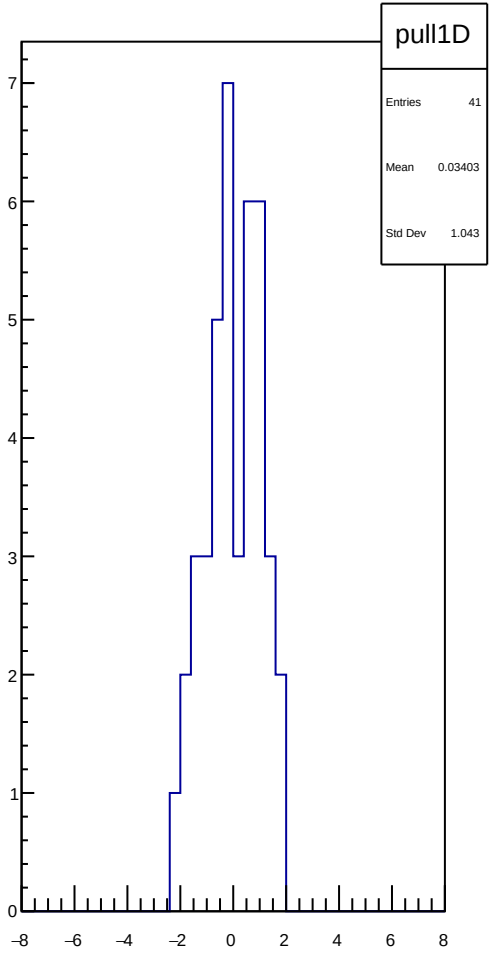
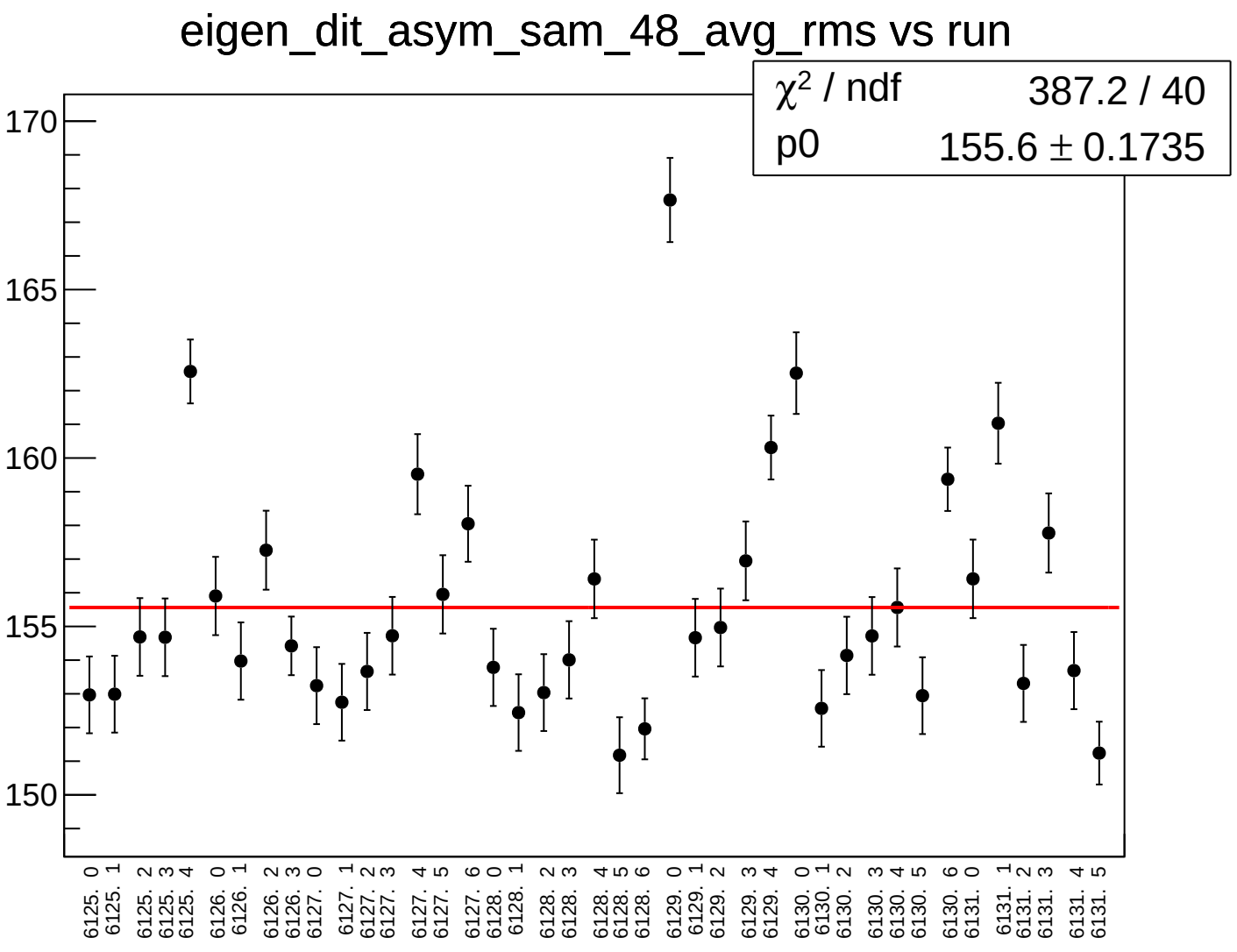
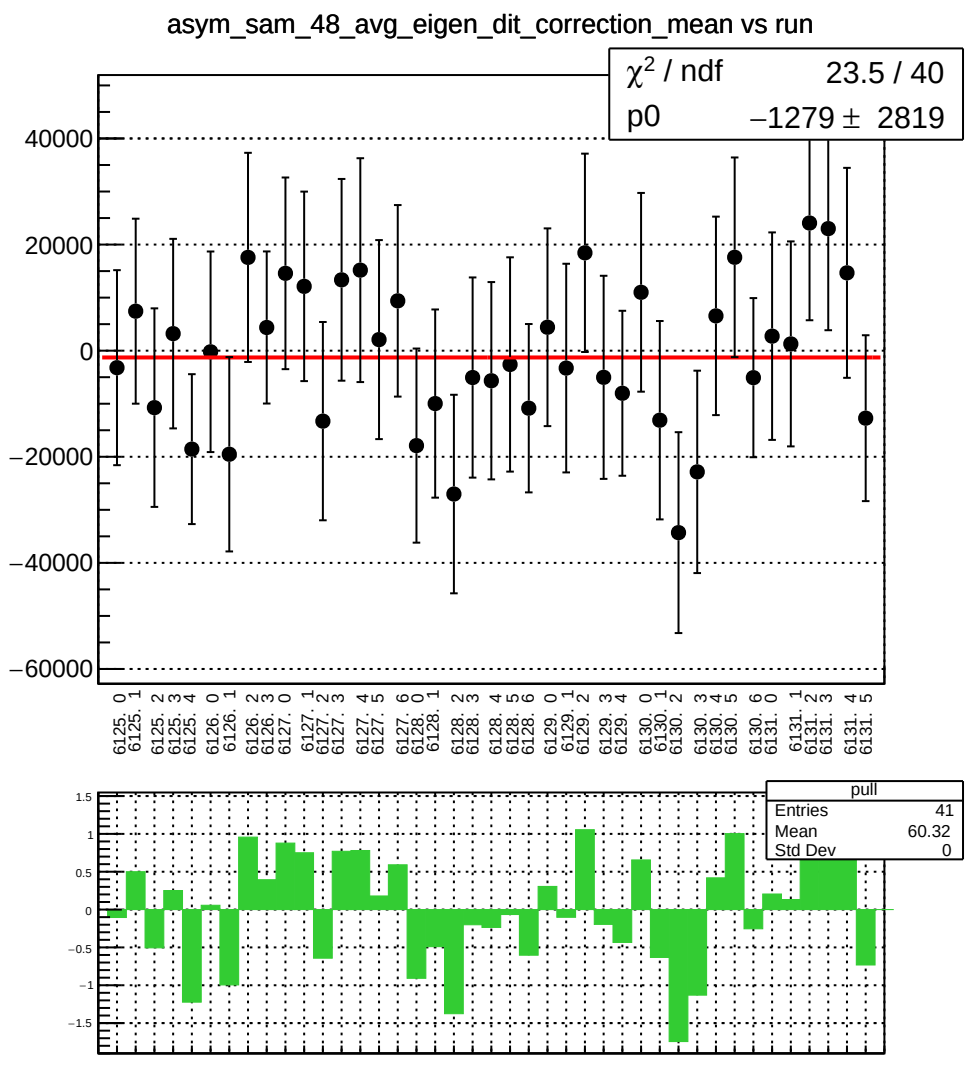
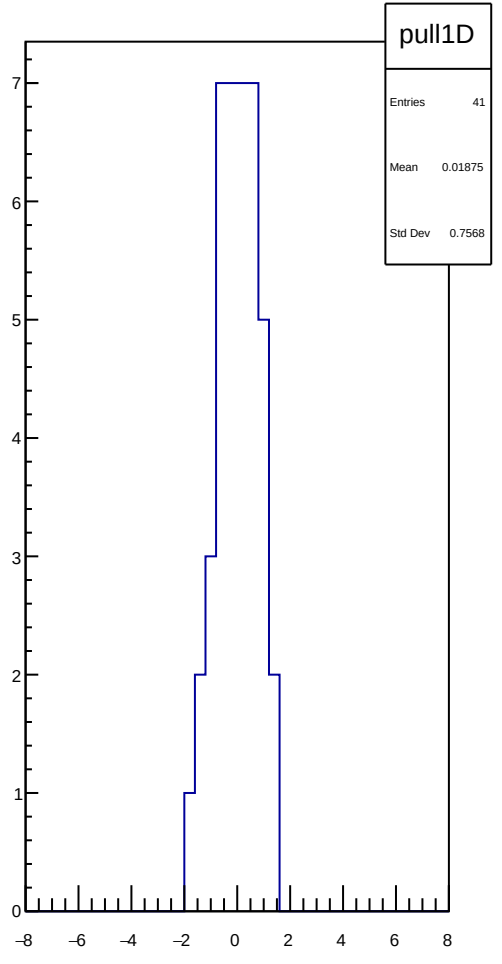
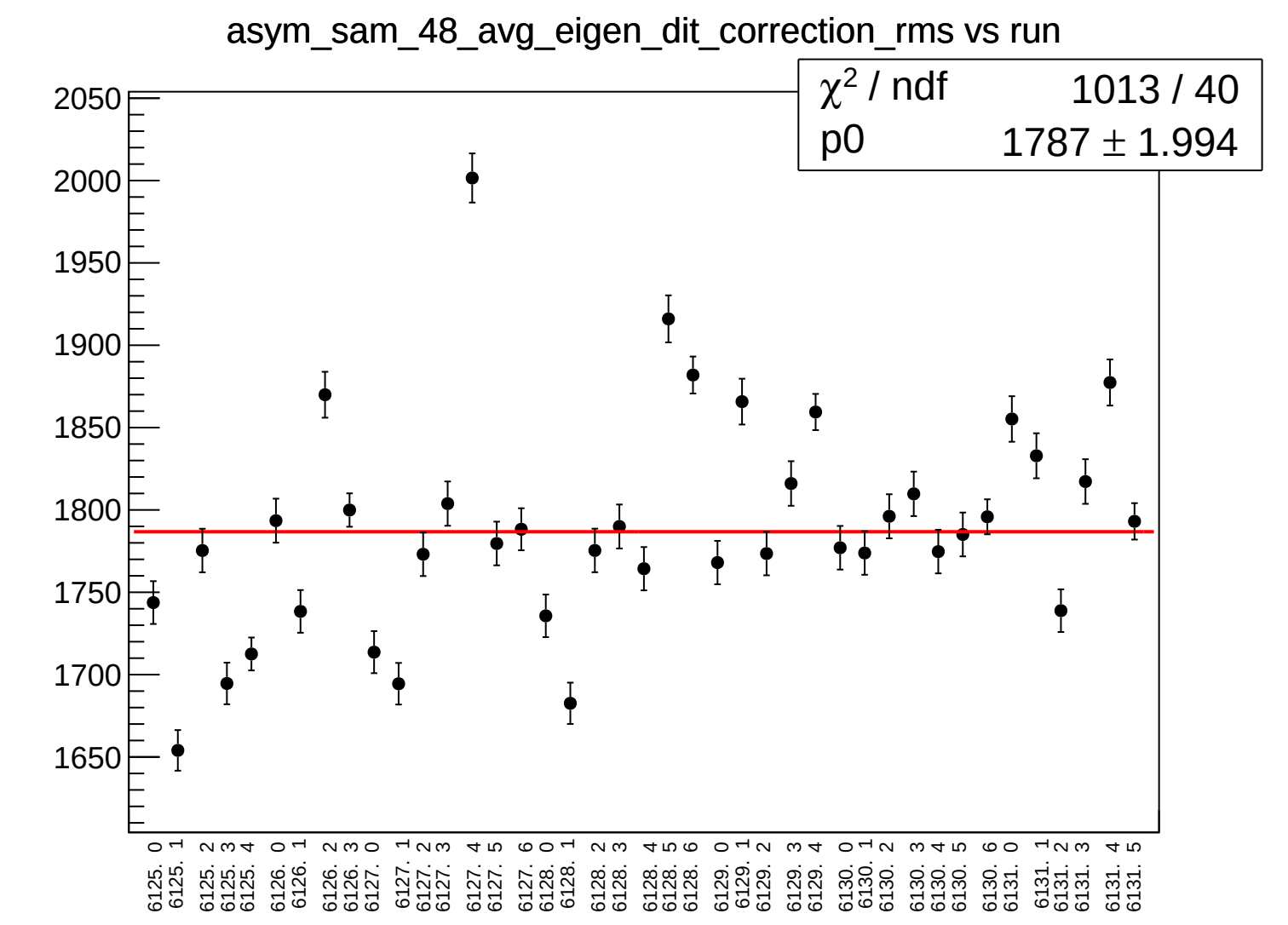
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 70.24
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

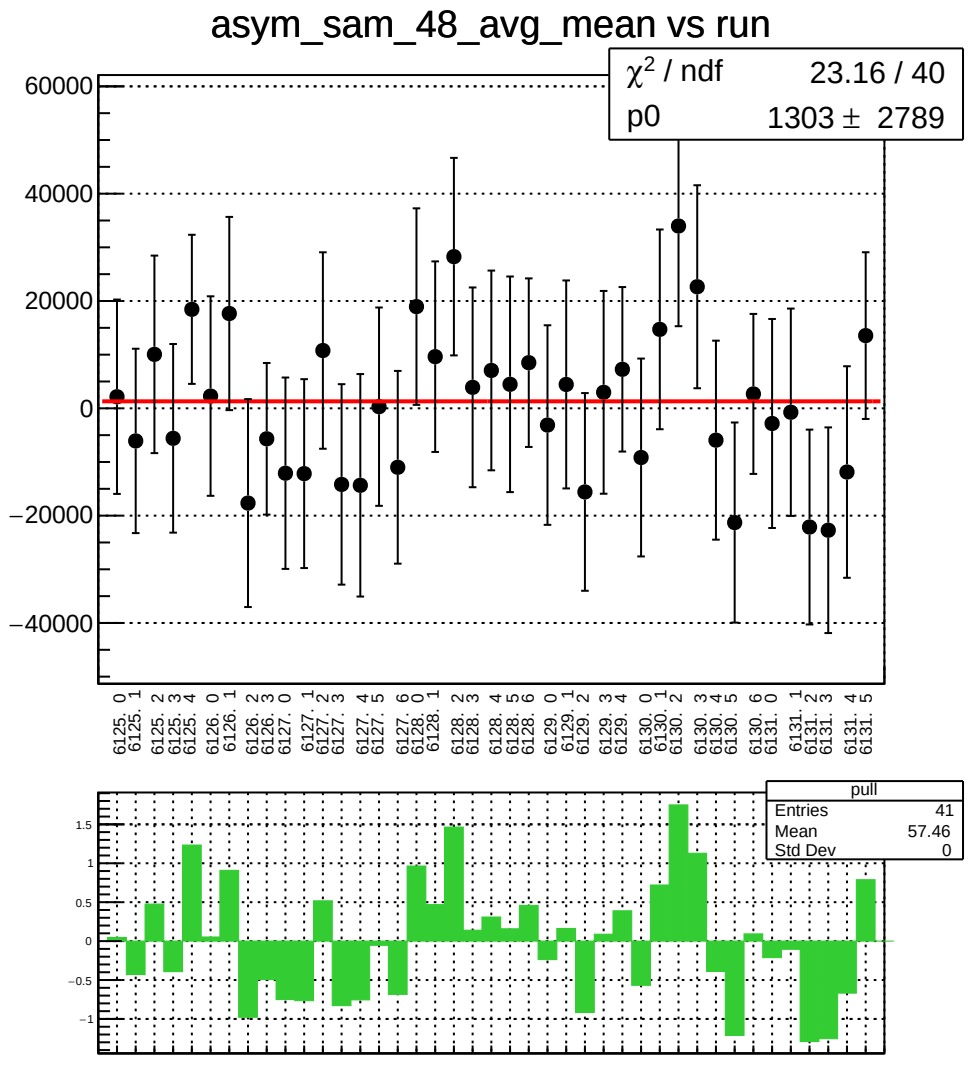

pull1D
Entries 41
Mean 0.03403
Std Dev 1.043
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

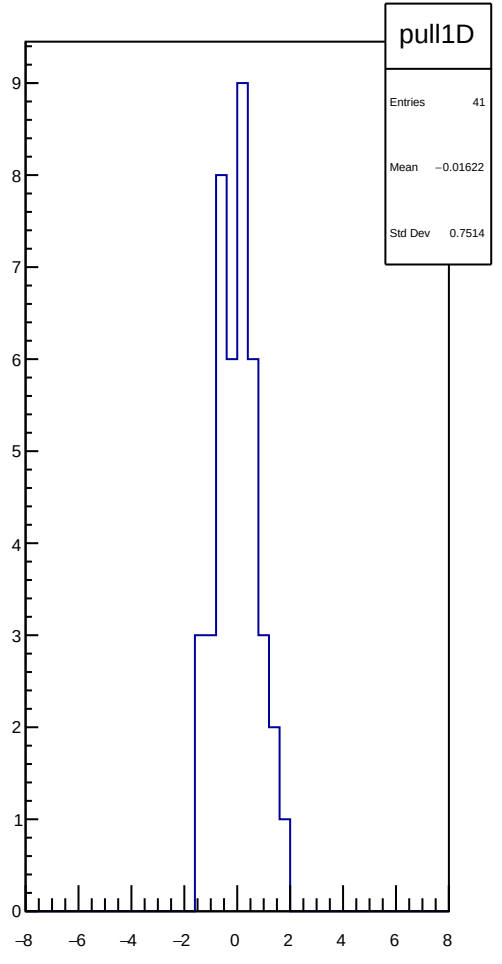

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 387.2 / 40
p0 155.6 ± 0.1735
170
165
160
155
150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

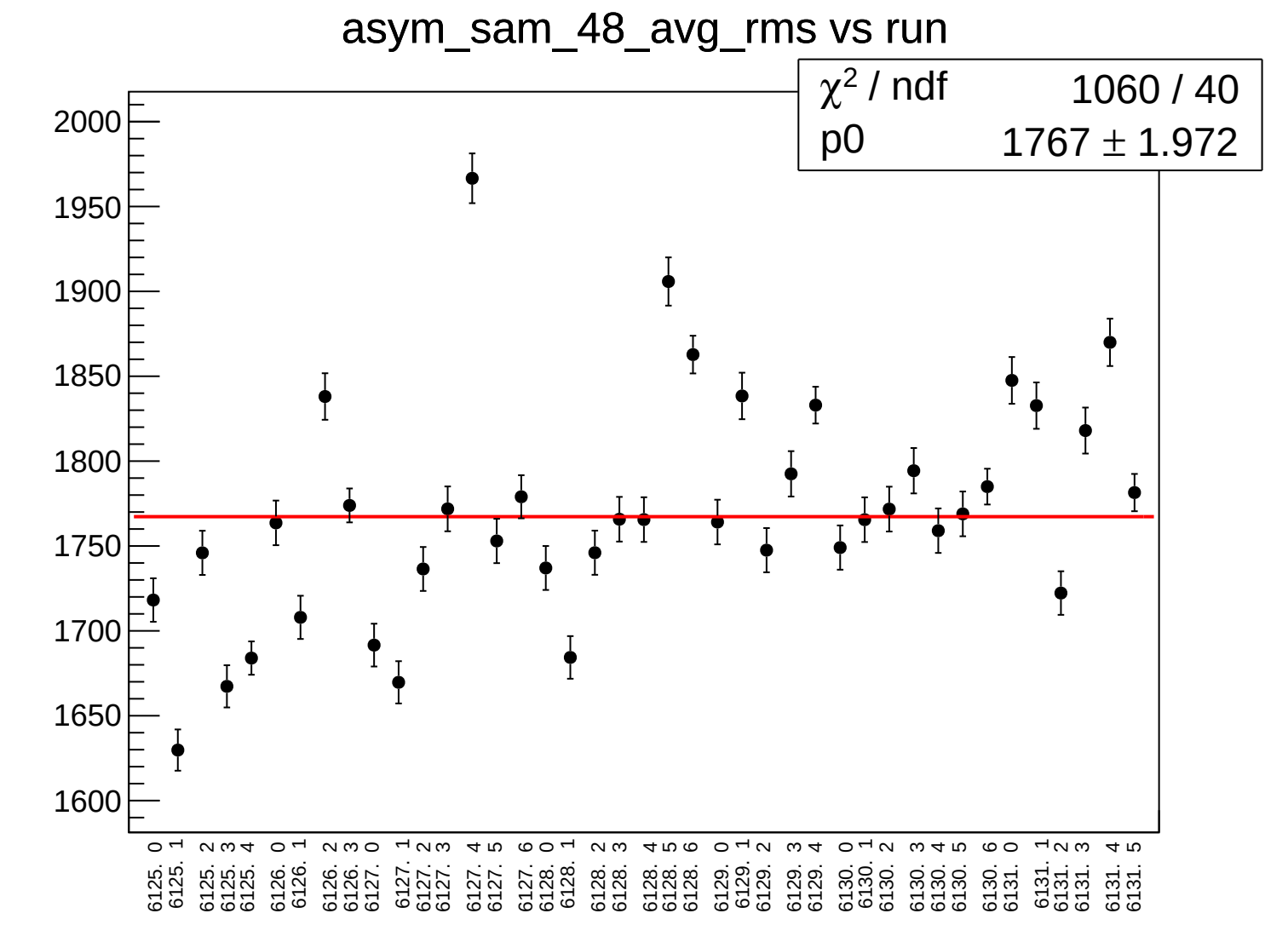

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 23.5 / 40
p0 −1279 ± 2819
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 60.32
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

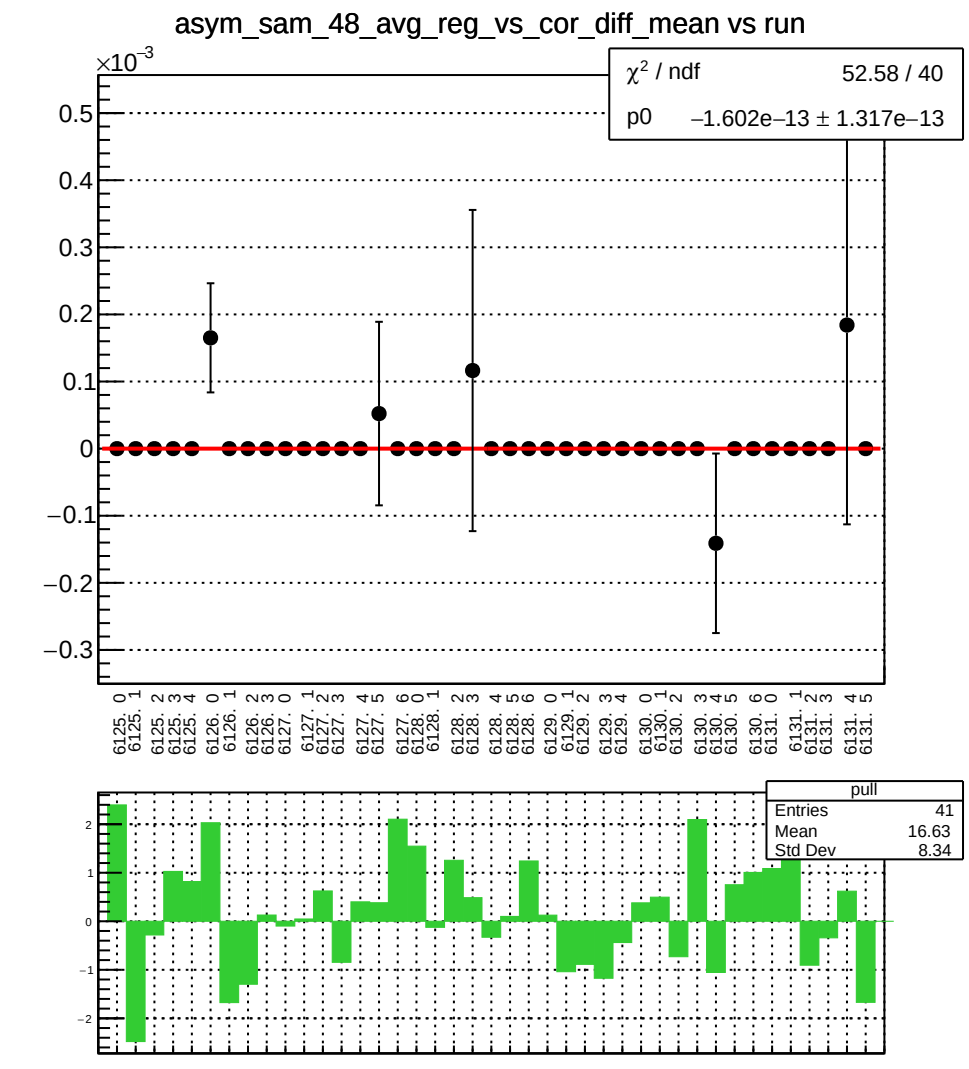

pull1D
Entries 41
Mean 0.01875
Std Dev 0.7568
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

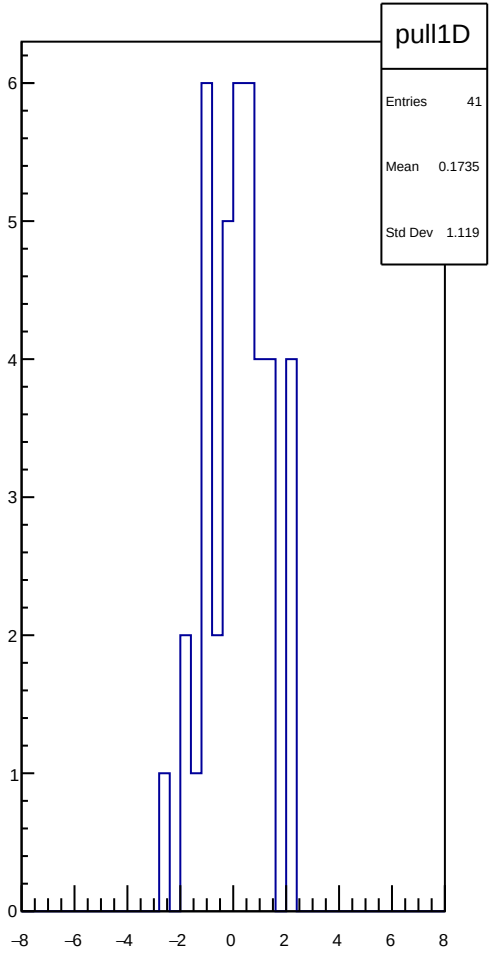

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 1013 / 40
p0 1787 ± 1.994
2050
2000
1950
1900
1850
1800
1750
1700
1650
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

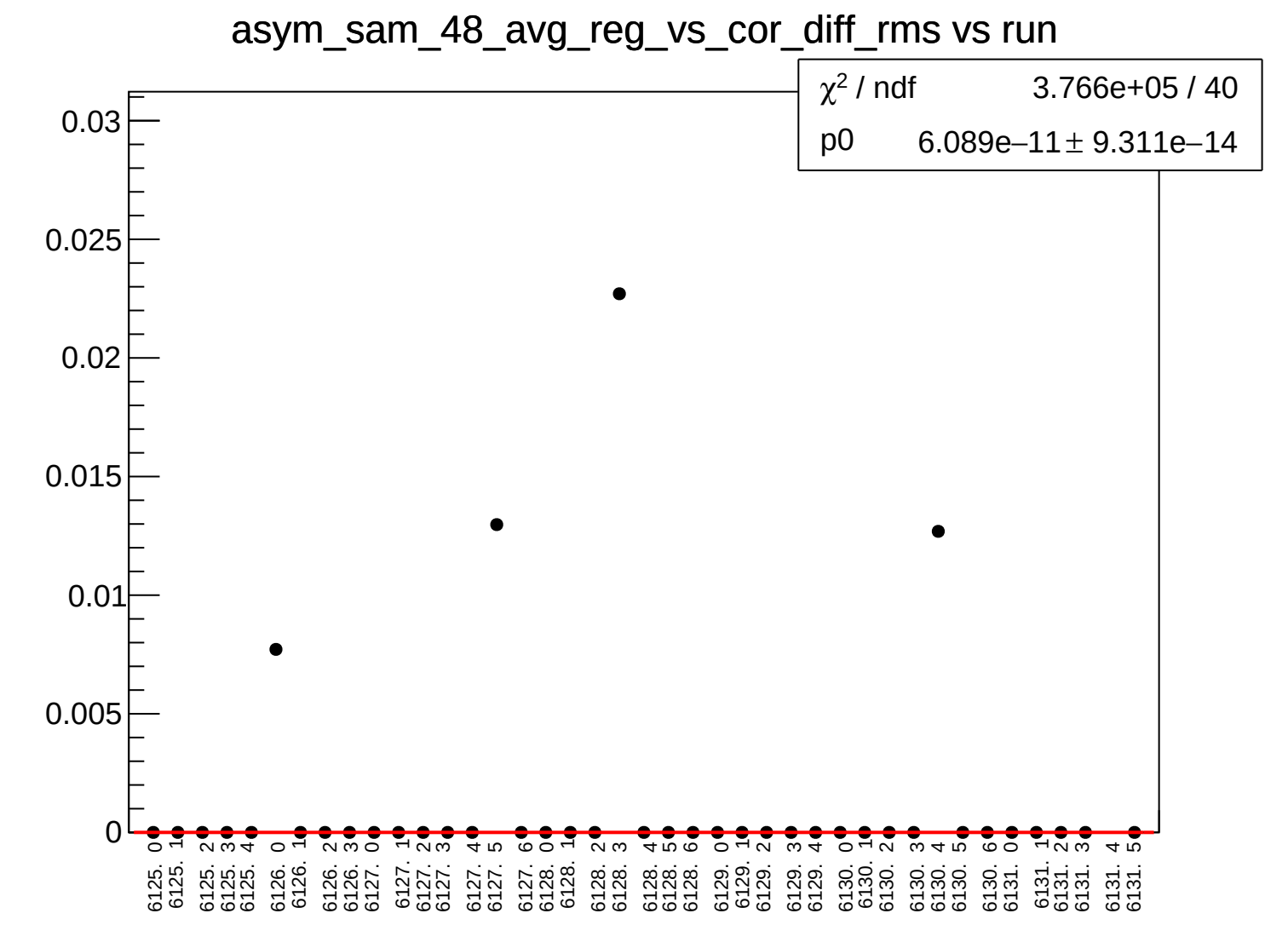

asym_sam_48_avg_mean vs run
χ² / ndf 23.16 / 40
p0 1303 ± 2789
60000
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 57.46
Std Dev 0
1.5
1
0.5
0
−0.5
−1

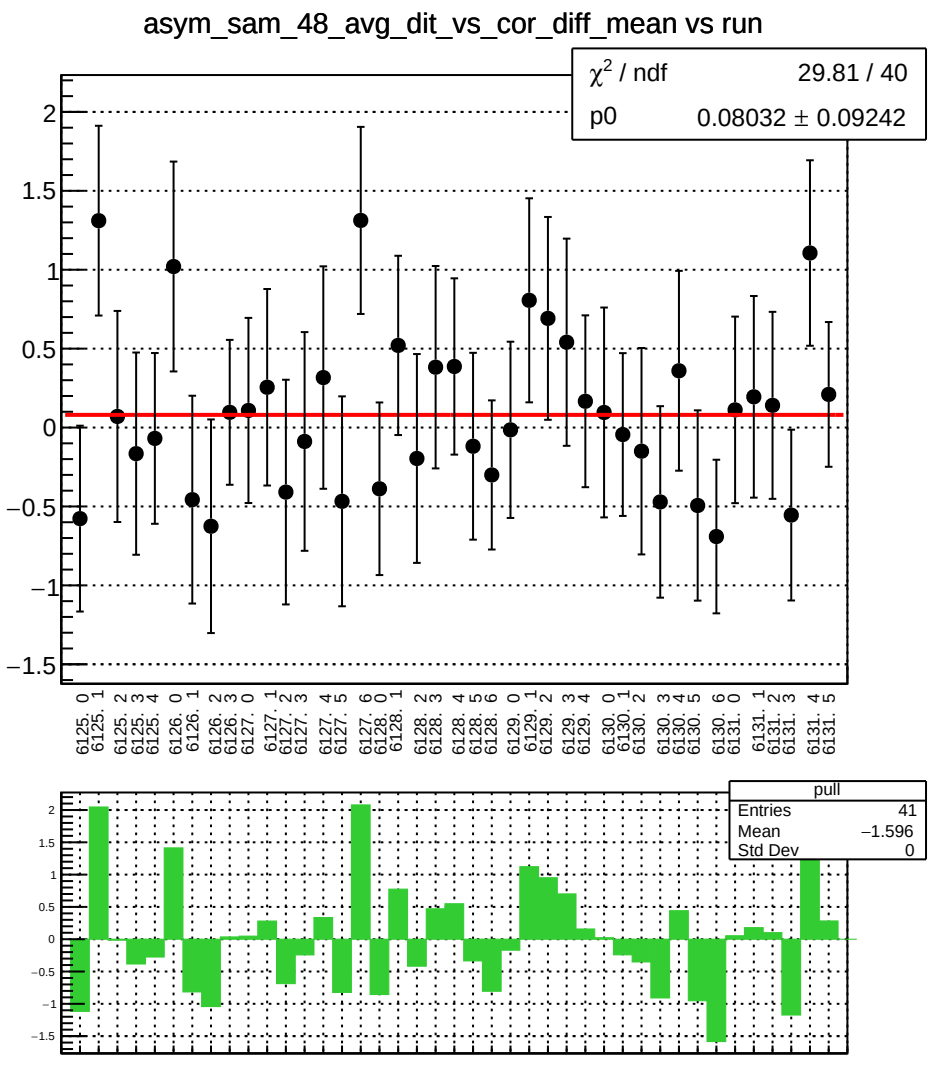

pull1D
Entries 41
Mean −0.01622
Std Dev 0.7514
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

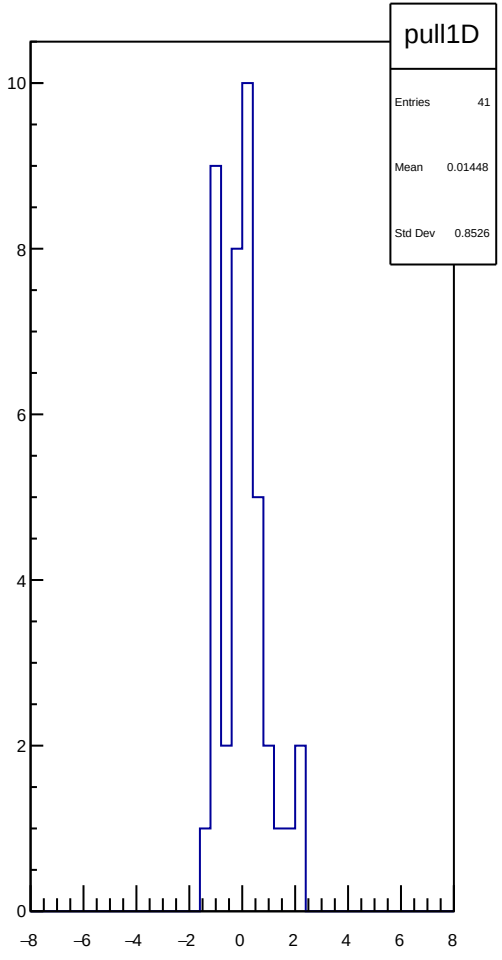

asym_sam_48_avg_rms vs run
χ² / ndf 1060 / 40
p0 1767 ± 1.972
2000
1950
1900
1850
1800
1750
1700
1650
1600
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

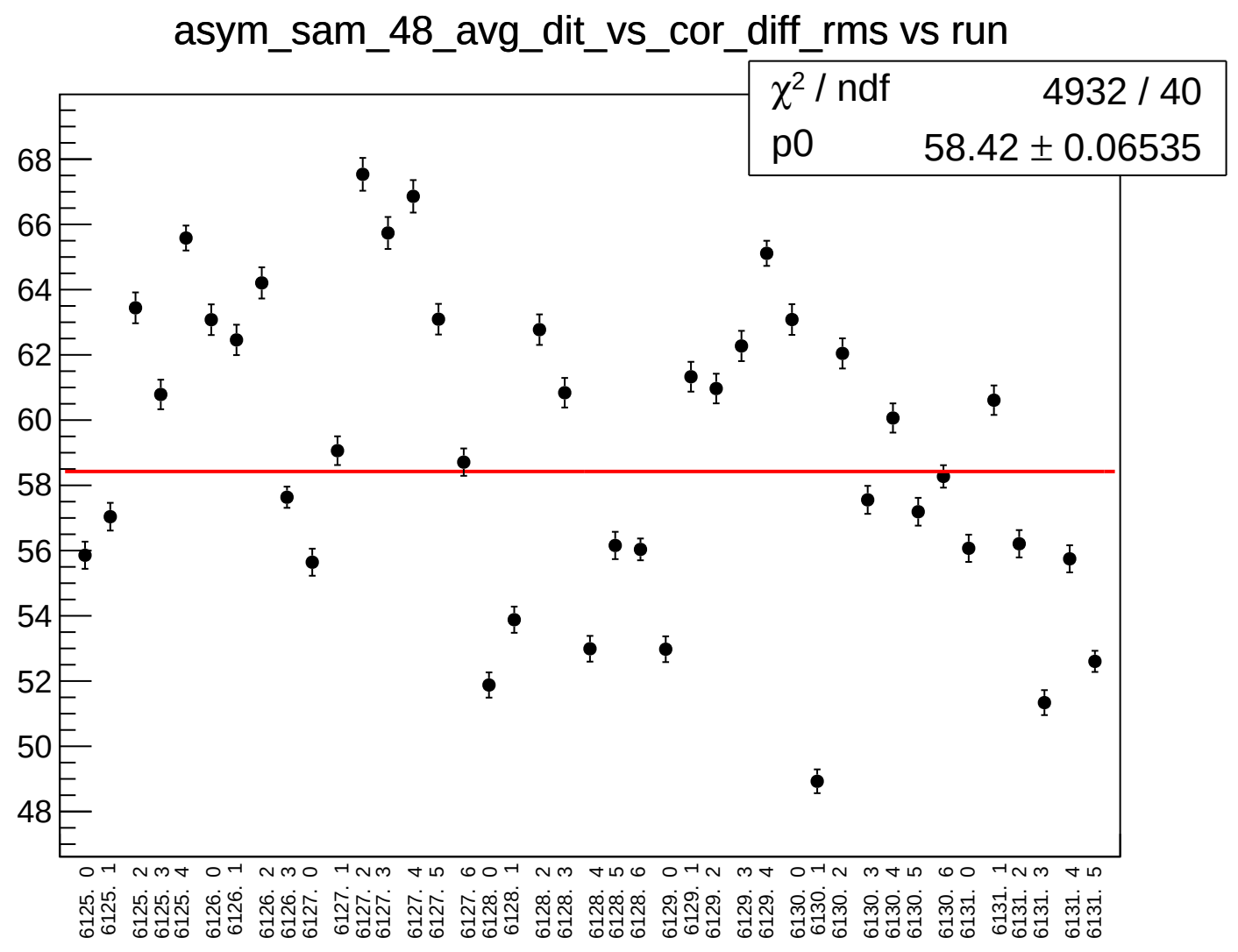

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 52.58 / 40
p0 −1.602e−13 ± 1.317e−13
pull
Entries 41
Mean 16.63
Std Dev 8.34

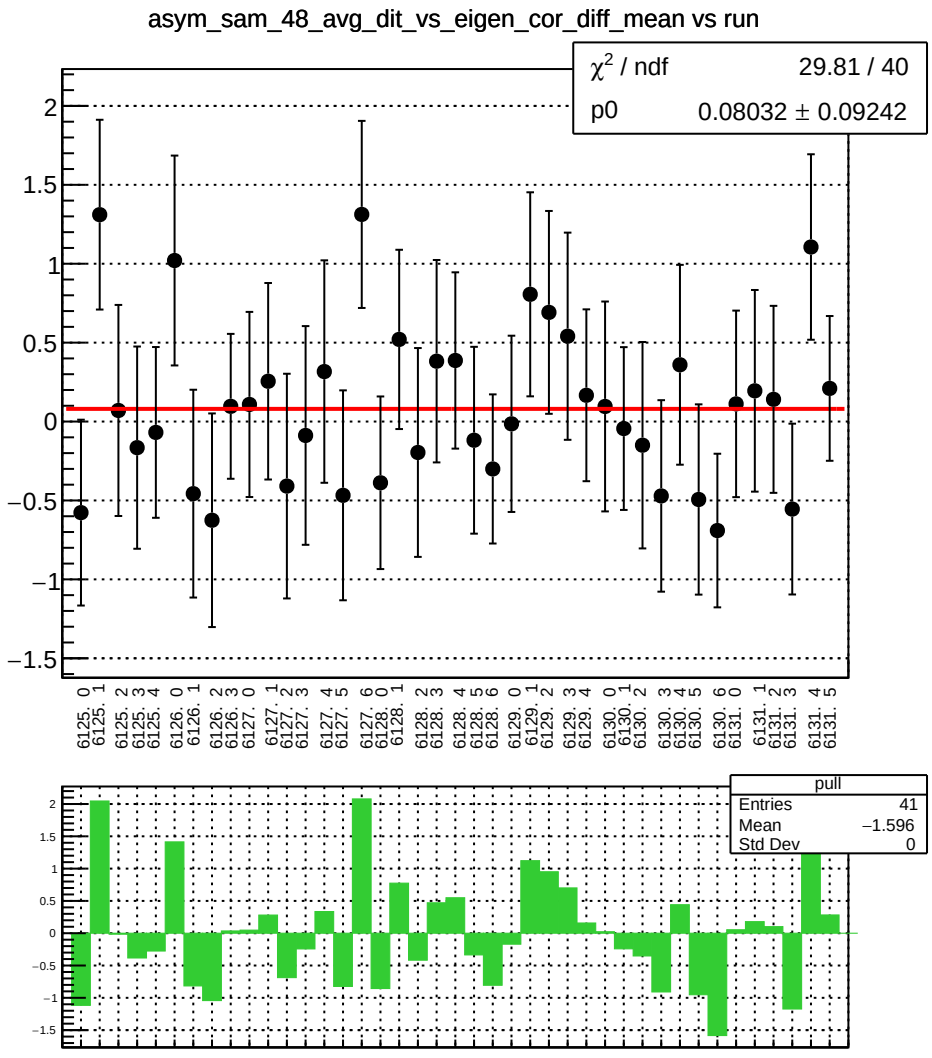

pull1D
Entries 41
Mean 0.1735
Std Dev 1.119

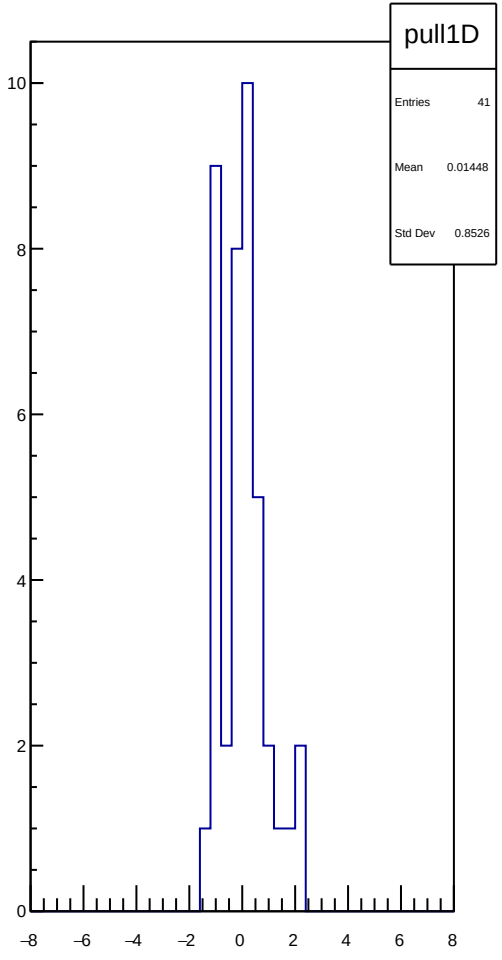

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.766e+05 / 40
p0 6.089e−11 ± 9.311e−14
0.03
0.025
0.02
0.015
0.01
0.005
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

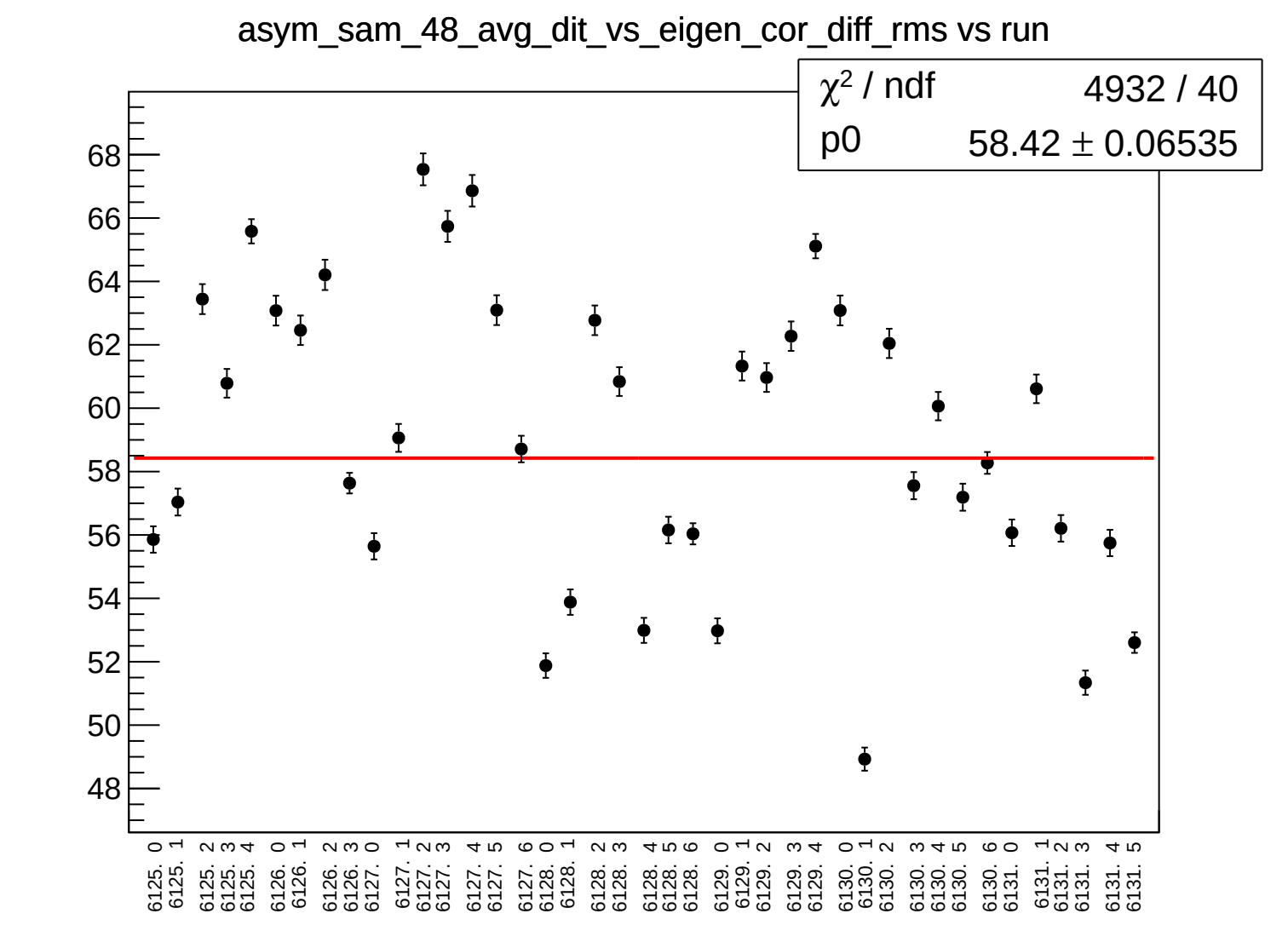

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 29.81 / 40
p0 0.08032 ± 0.09242
pull
Entries 41
Mean −1.596
Std Dev 0

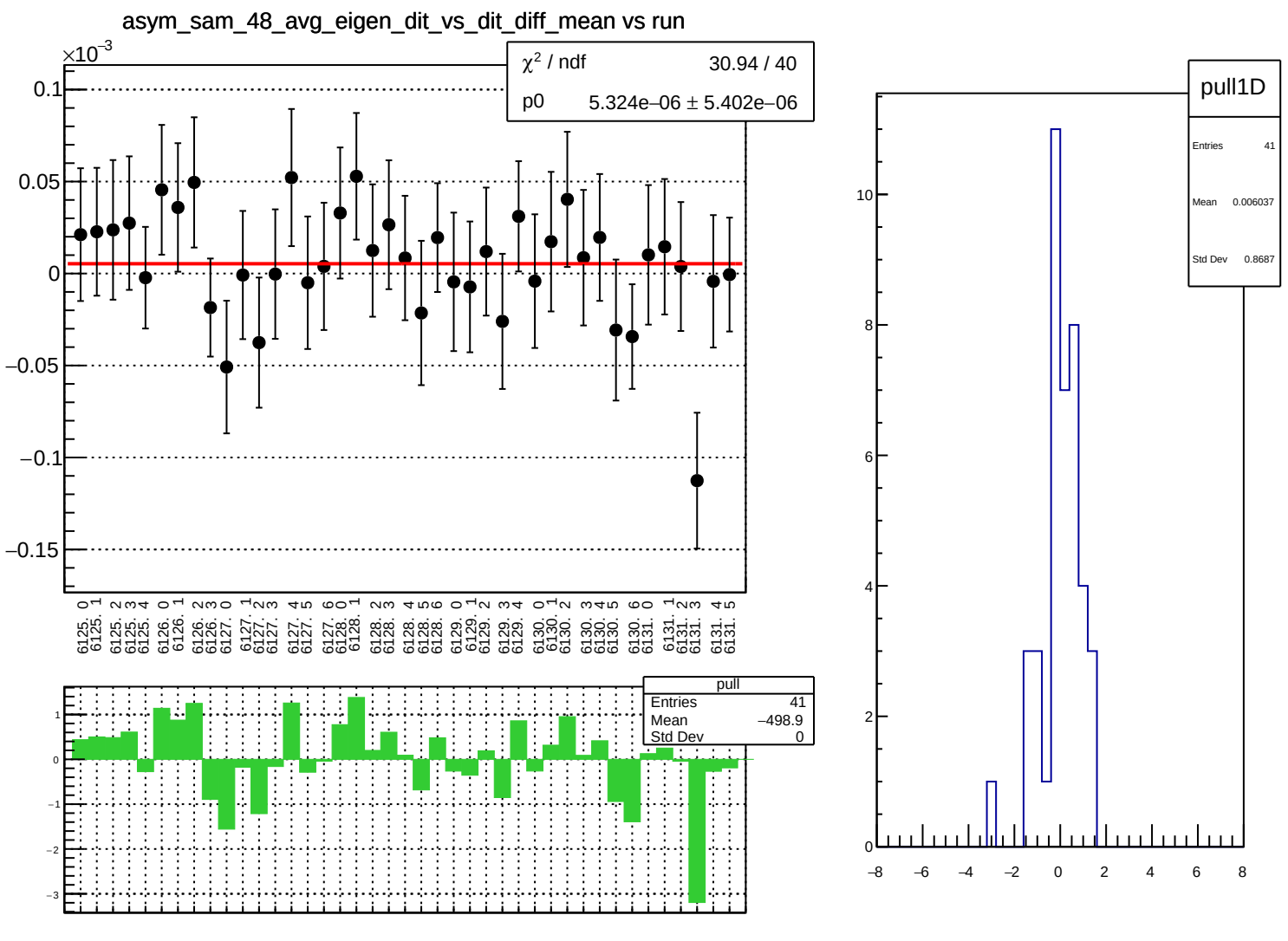

pull1D
Entries 41
Mean 0.01448
Std Dev 0.8526

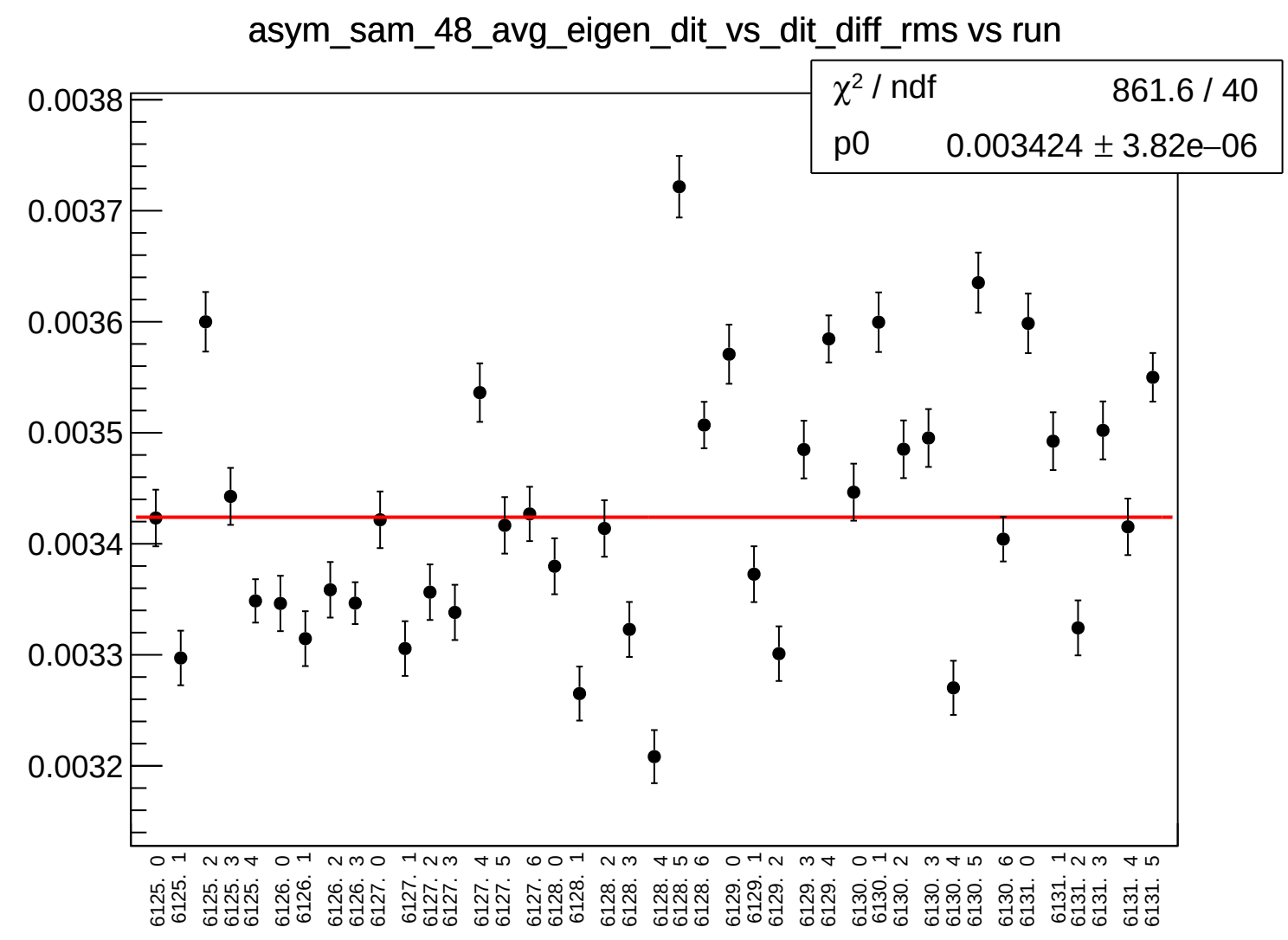

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4932 / 40
p0 58.42 ± 0.06535
68
66
64
62
60
58
56
54
52
50
48
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

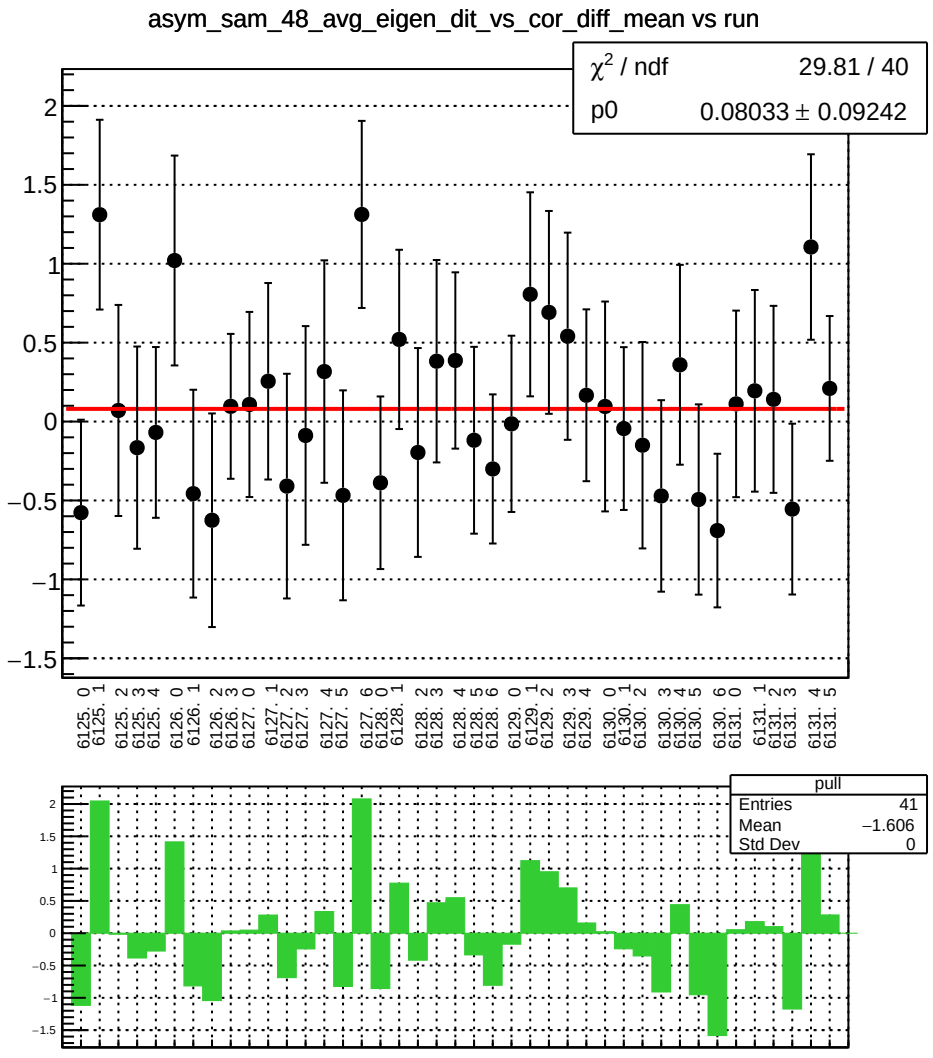

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.81 / 40
p0 0.08032 ± 0.09242
pull
Entries 41
Mean −1.596
Std Dev 0

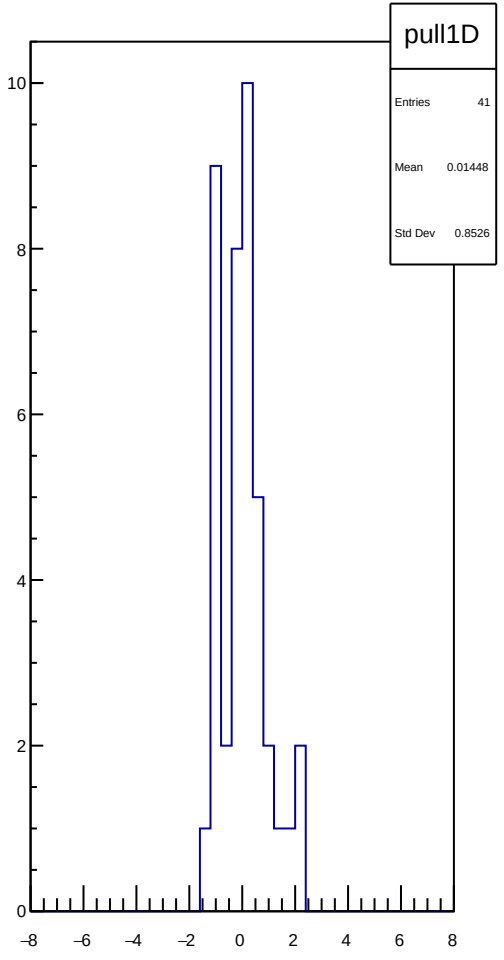

pull1D
Entries 41
Mean 0.01448
Std Dev 0.8526

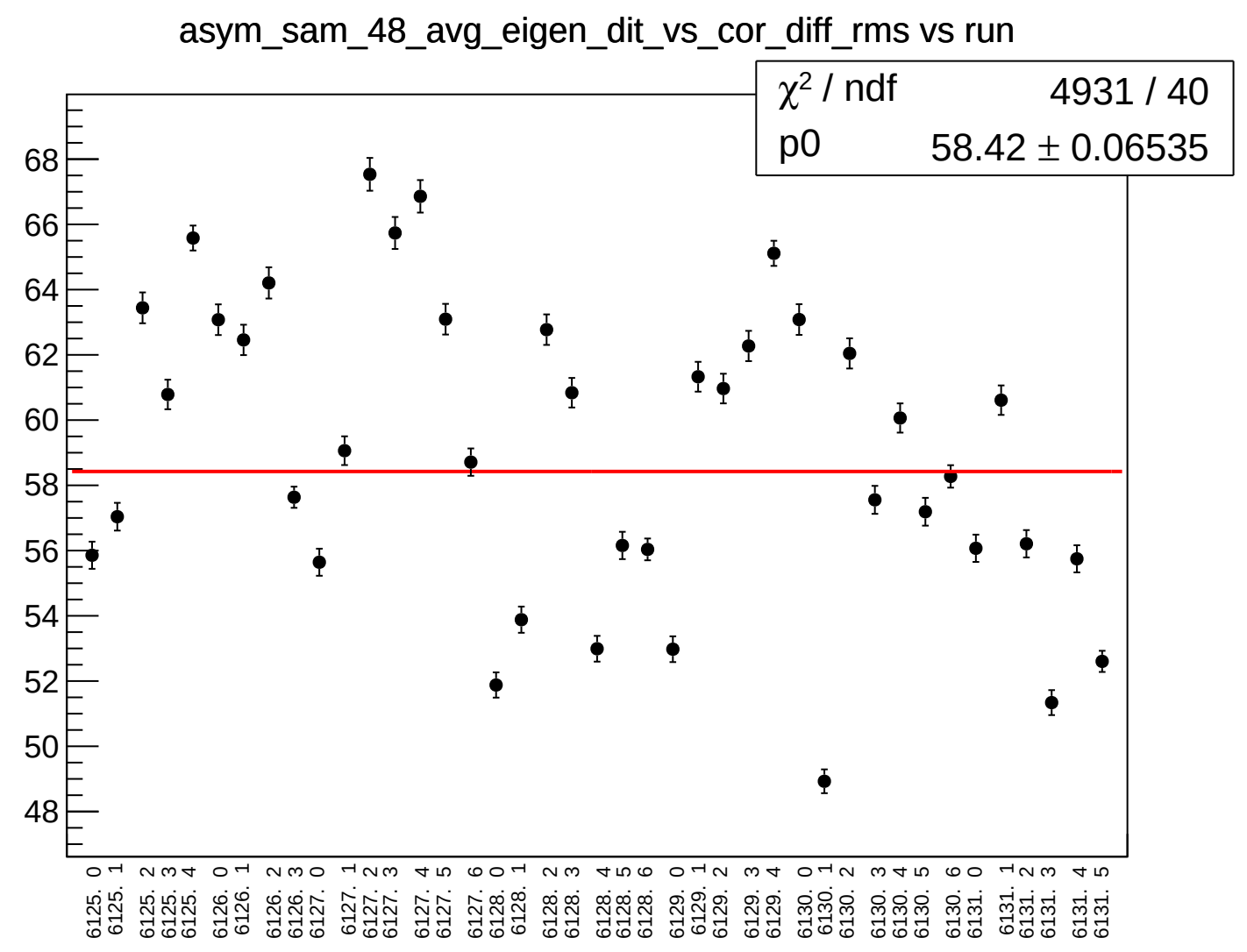

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4932 / 40
p0 58.42 ± 0.06535
68
66
64
62
60
58
56
54
52
50
48
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

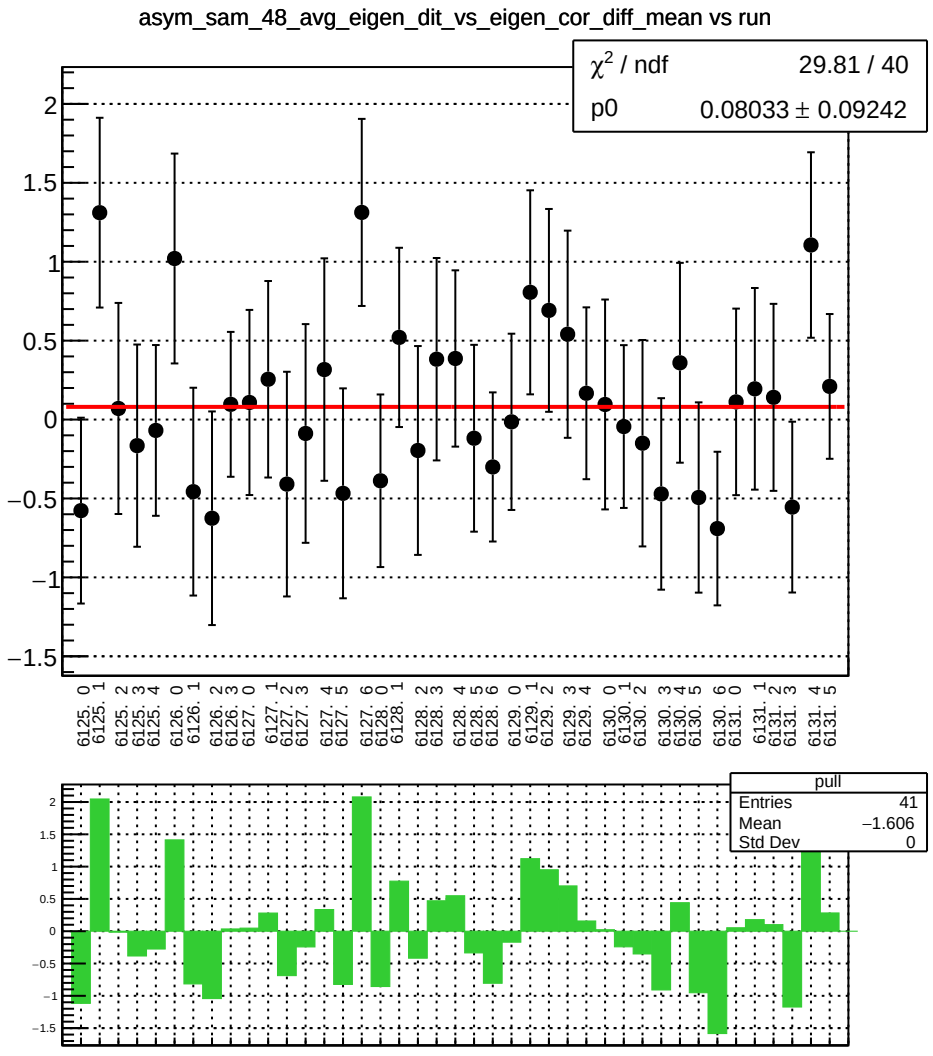

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 30.94 / 40
p0 5.324e−06 ± 5.402e−06
0.1
0.05
0
−0.05
−0.1
−0.15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −498.9
Std Dev 0
pull1D
Entries 41
Mean 0.006037
Std Dev 0.8687

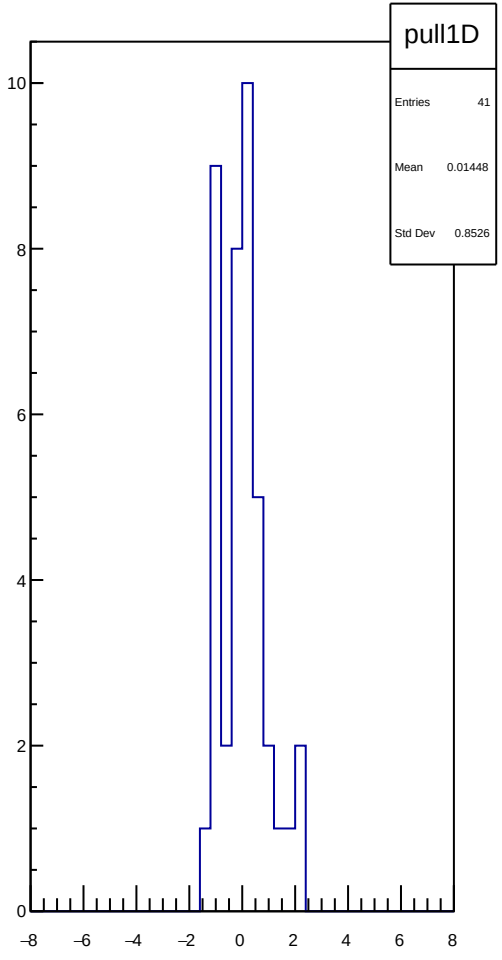

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 861.6 / 40
p0 0.003424 ± 3.82e−06
0.0038
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

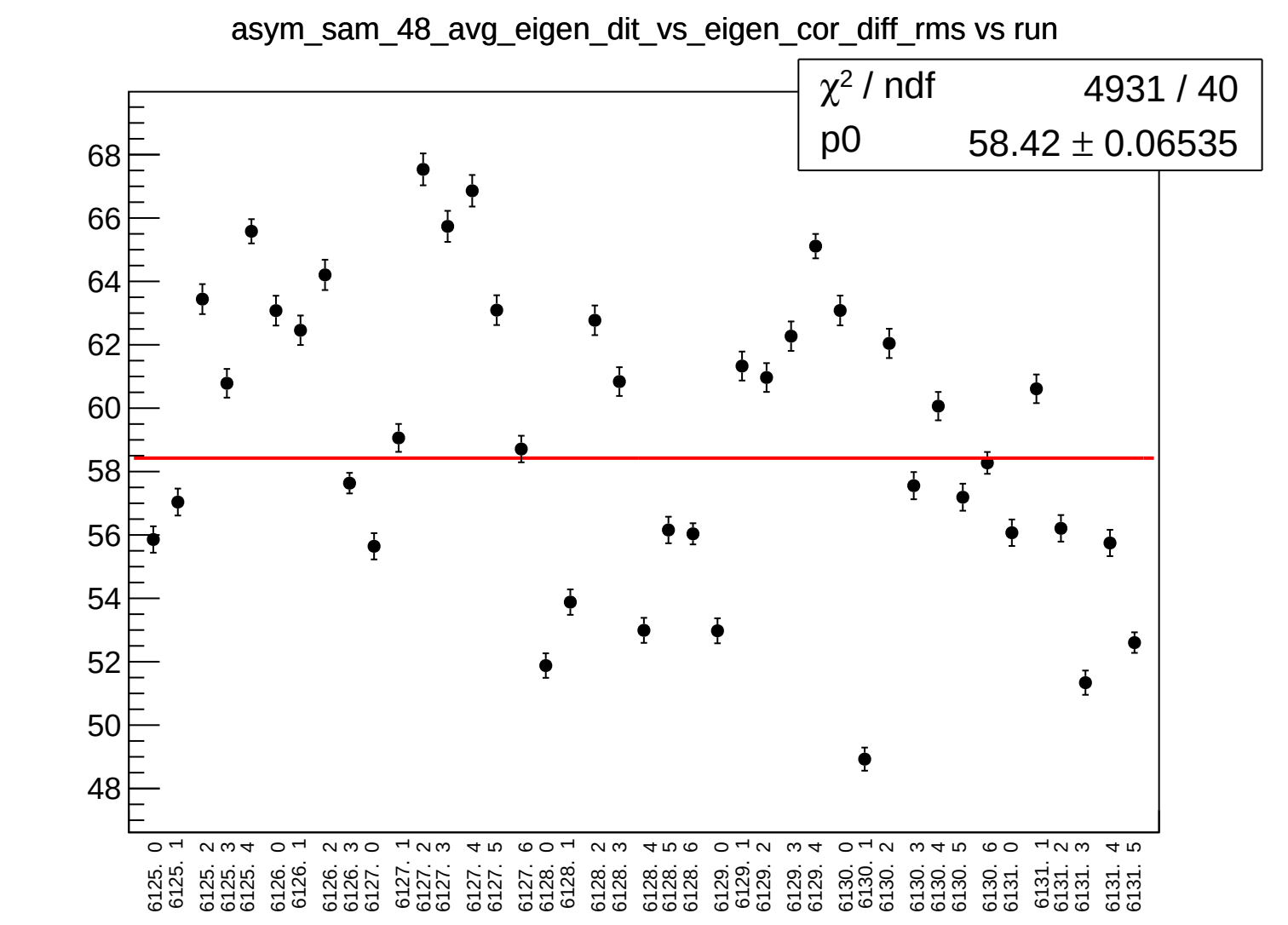

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 29.81 / 40
p0 0.08033 ± 0.09242
pull
Entries 41
Mean −1.606
Std Dev 0

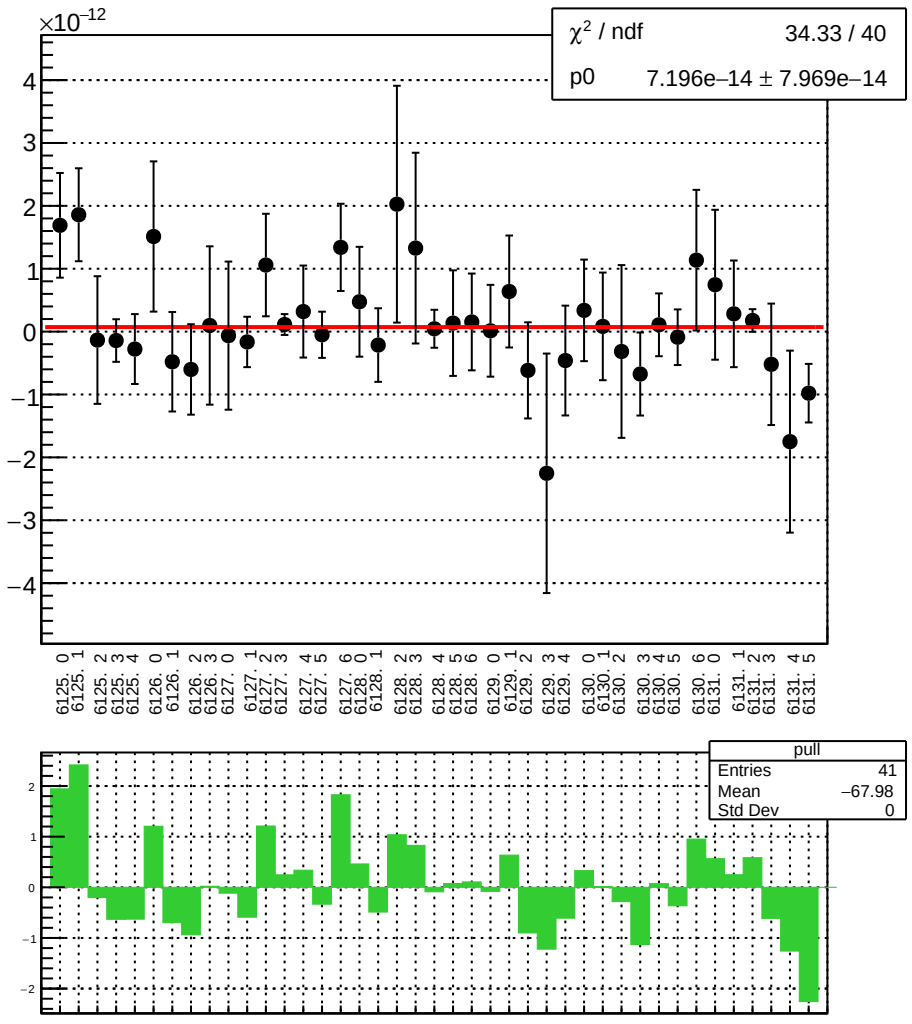

pull1D
Entries 41
Mean 0.01448
Std Dev 0.8526

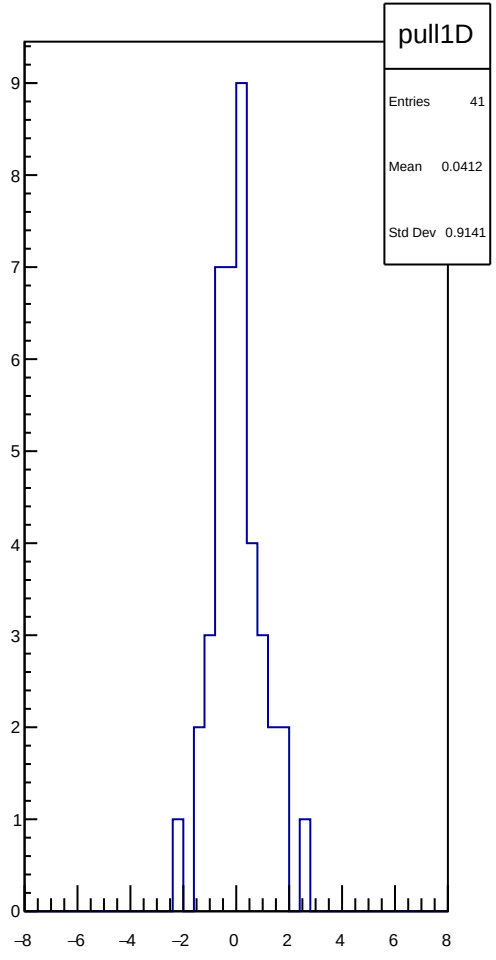

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4931 / 40
p0 58.42 ± 0.06535
68
66
64
62
60
58
56
54
52
50
48
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

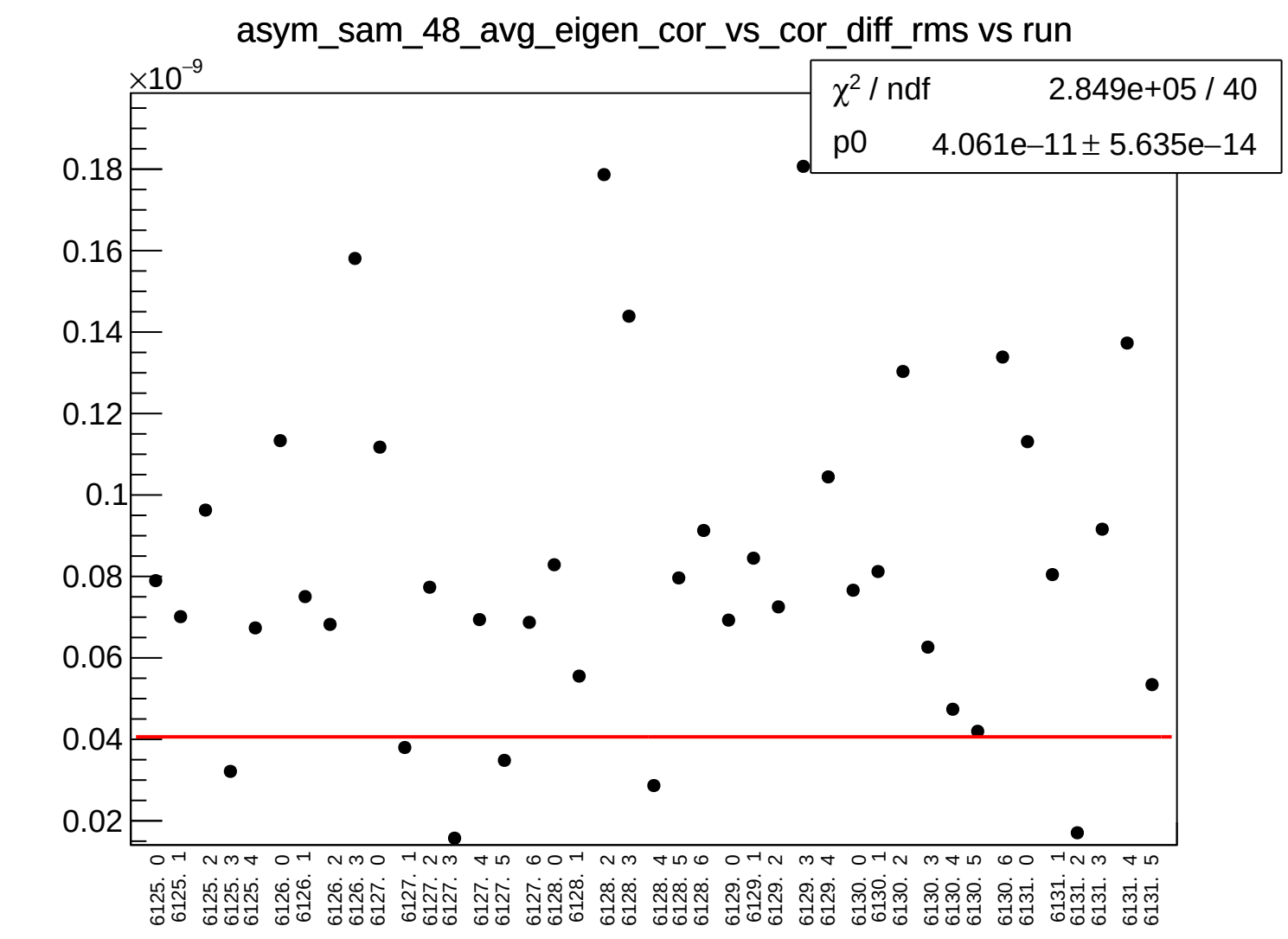

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.81 / 40
p0 0.08033 ± 0.09242
pull
Entries 41
Mean −1.606
Std Dev 0

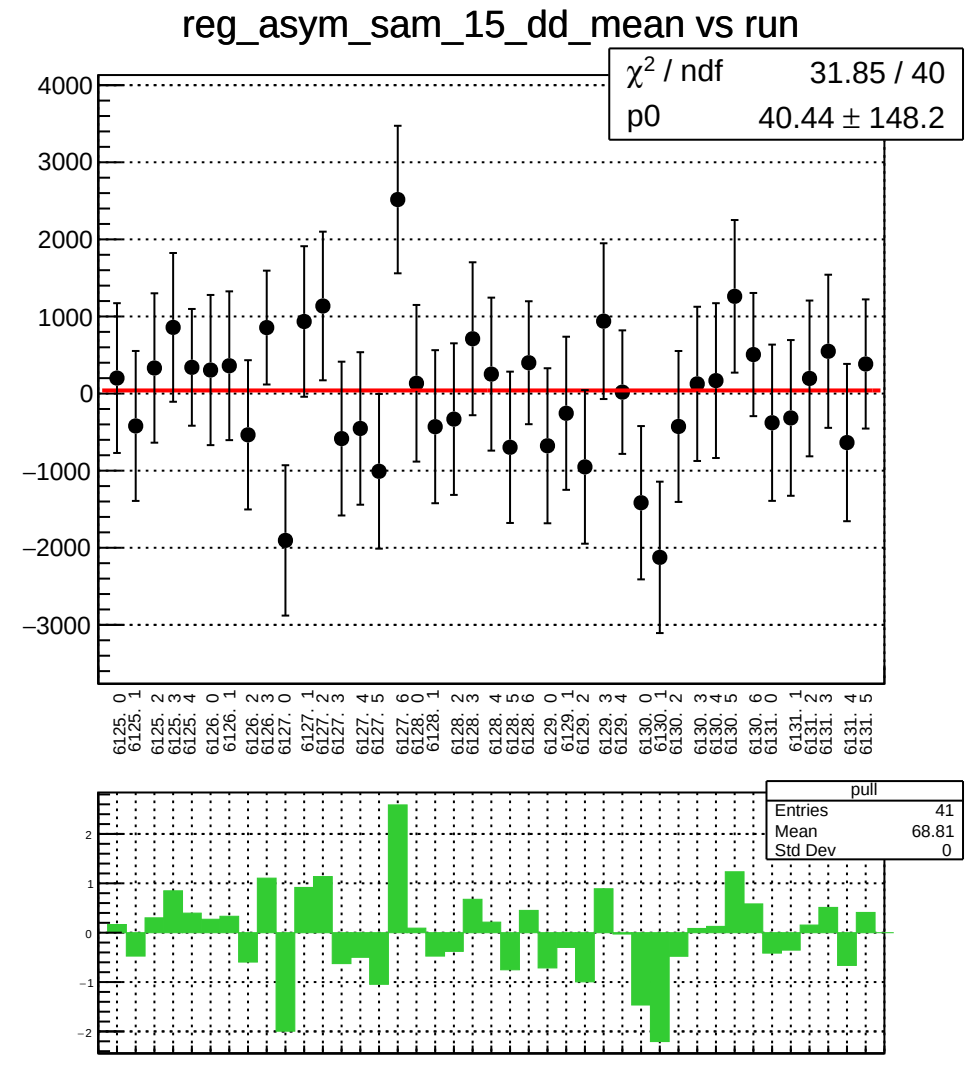

pull1D
Entries 41
Mean 0.01448
Std Dev 0.8526

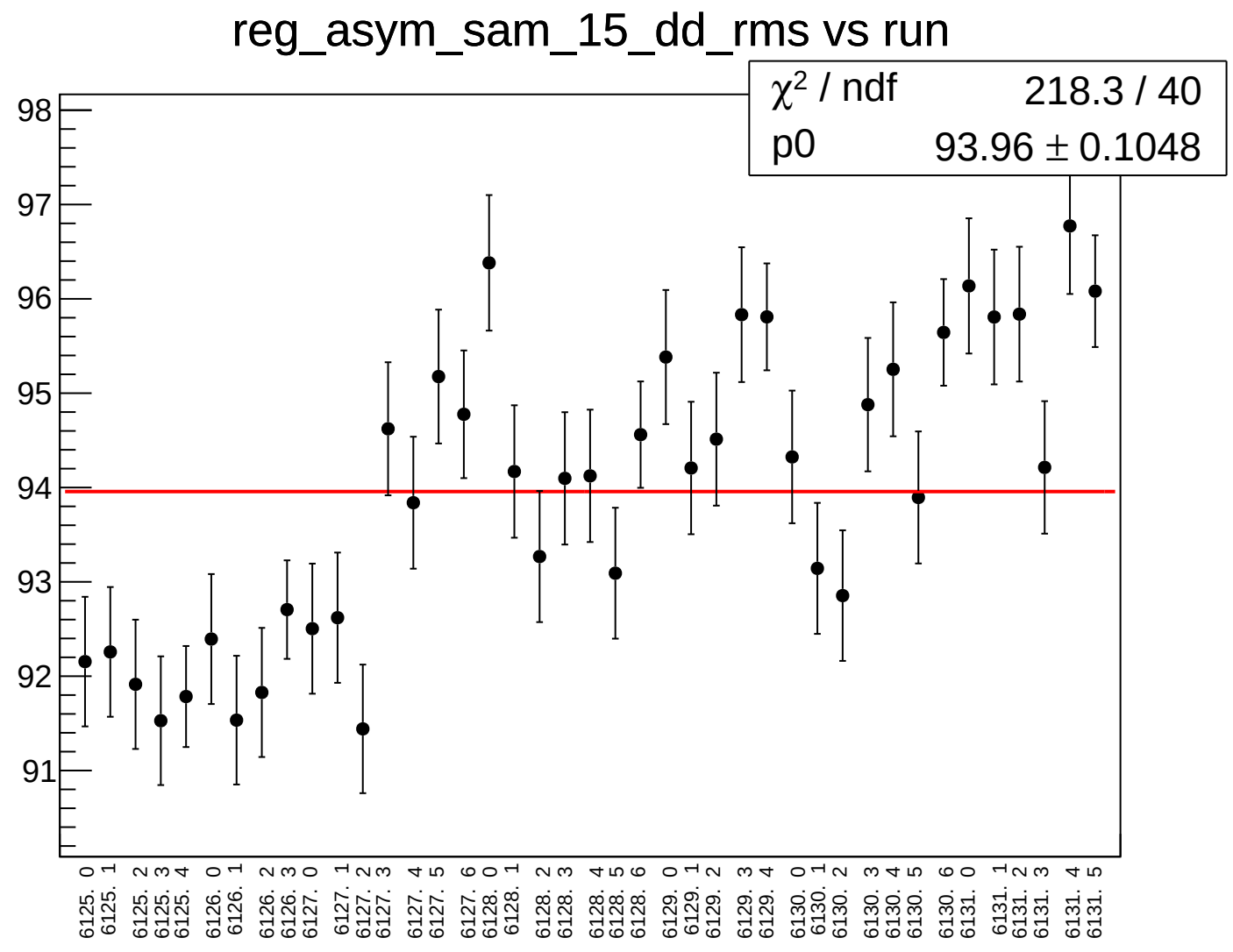

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4931 / 40
p0 58.42 ± 0.06535
68
66
64
62
60
58
56
54
52
50
48
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

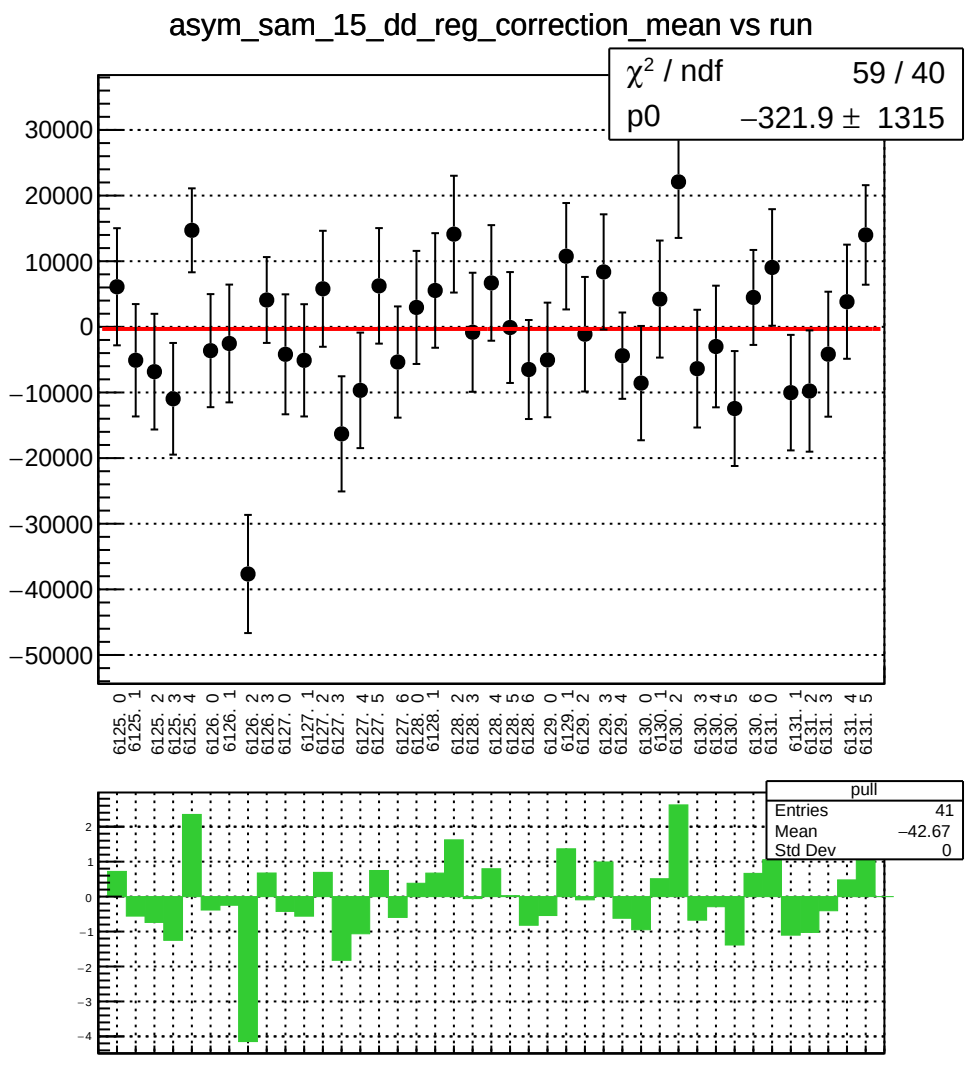

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.33 / 40
p0 7.196e−14 ± 7.969e−14
pull
Entries 41
Mean −67.98
Std Dev 0

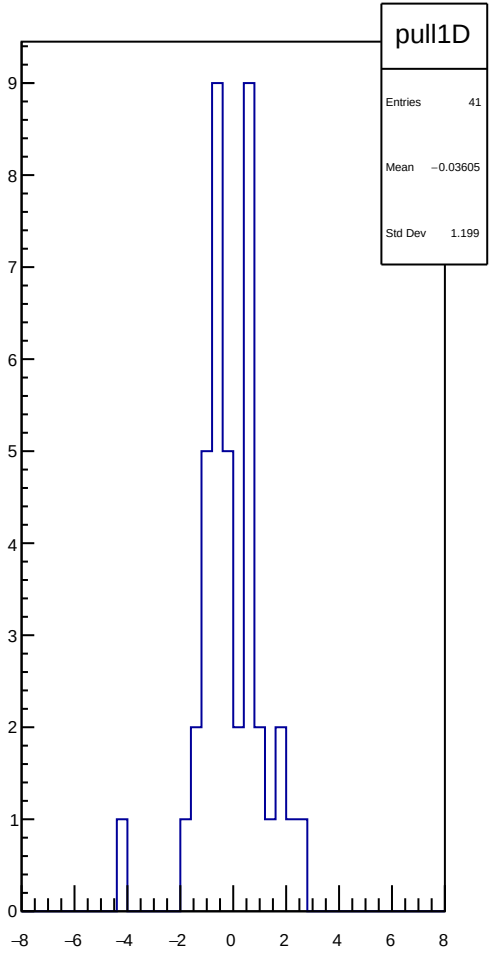

pull1D
Entries 41
Mean 0.0412
Std Dev 0.9141

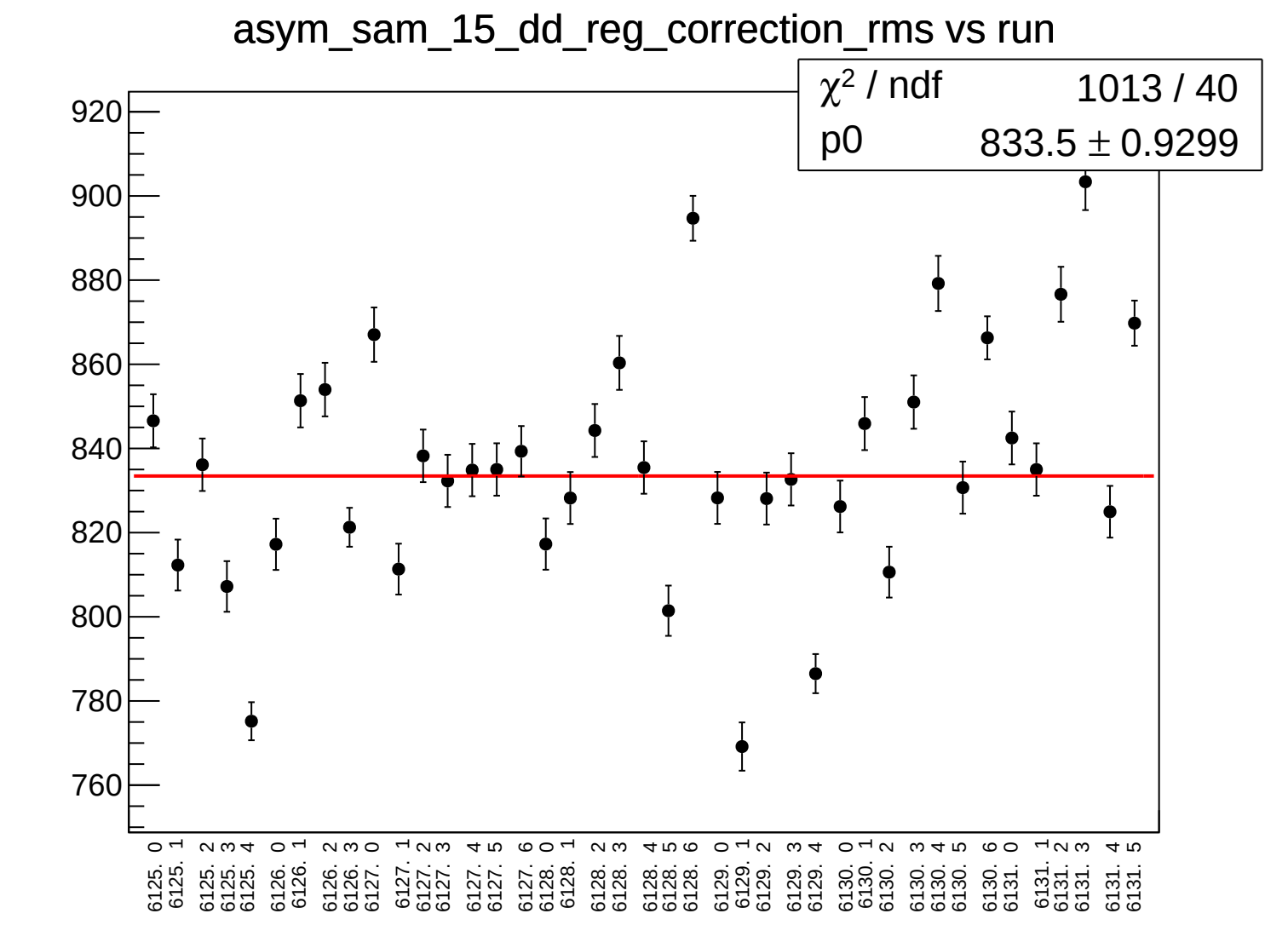

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.849e+05 / 40
p0 4.061e−11 ± 5.635e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

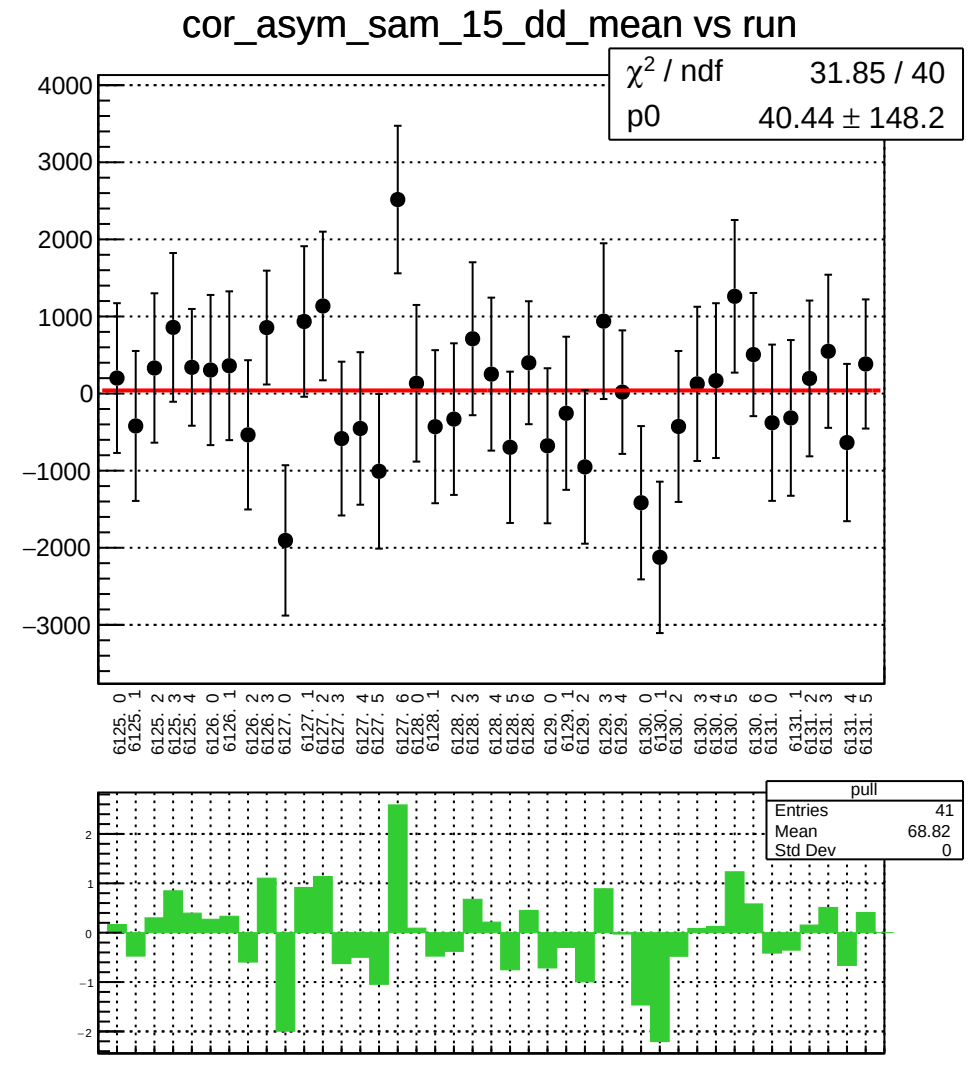

reg_asym_sam_15_dd_mean vs run
χ² / ndf 31.85 / 40
p0 40.44 ± 148.2
4000
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 68.81
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.02337
Std Dev 0.8811
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

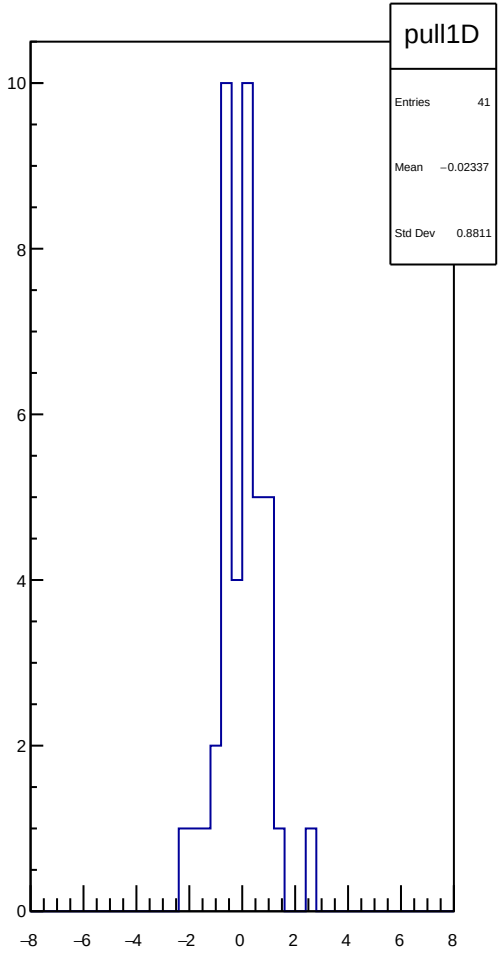

reg_asym_sam_15_dd_rms vs run
χ² / ndf 218.3 / 40
p0 93.96 ± 0.1048
98
97
96
95
94
93
92
91
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

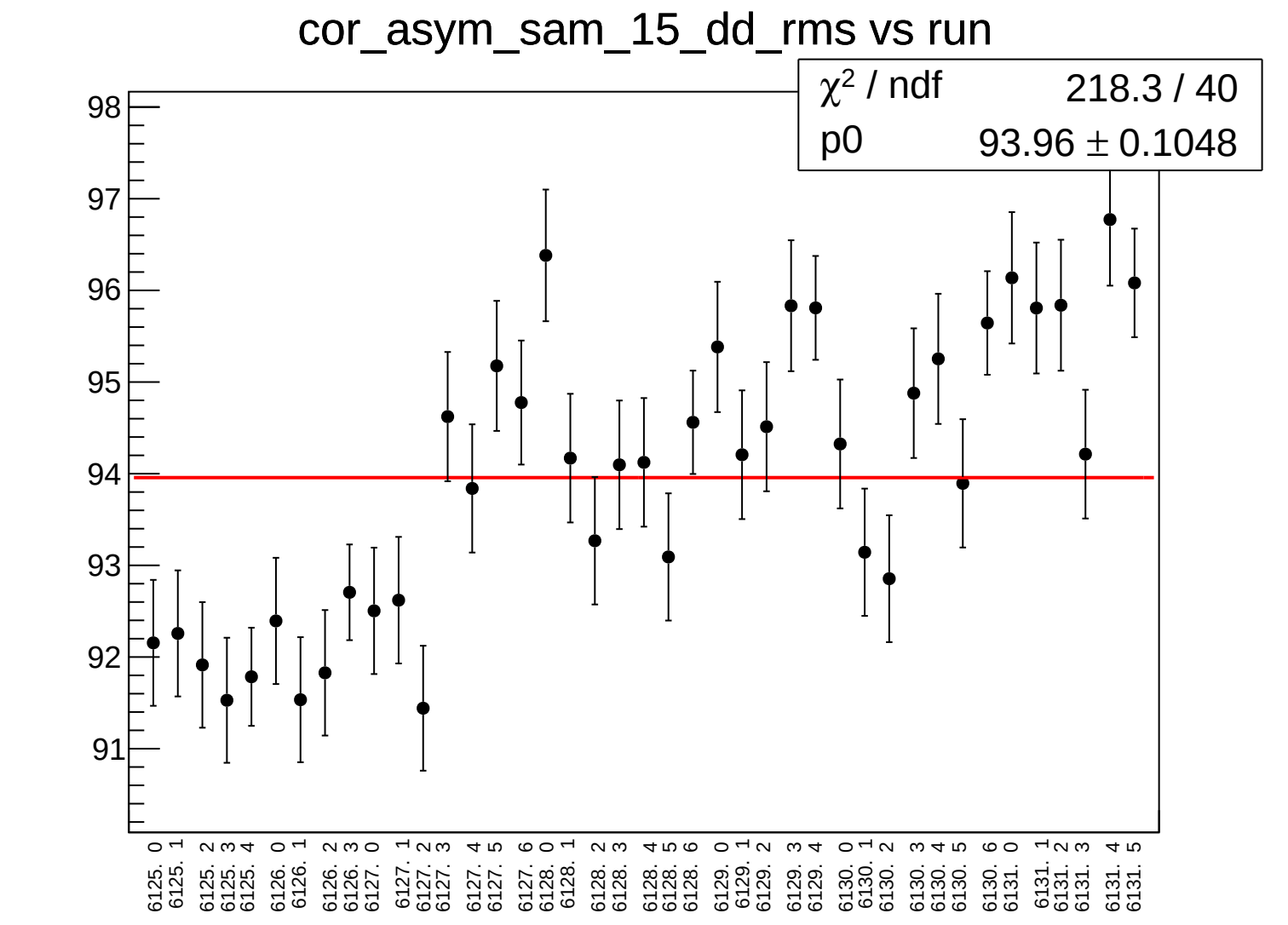

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 59 / 40
p0 −321.9 ± 1315
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −42.67
Std Dev 0
2
1
0
−1
−2
−3
−4

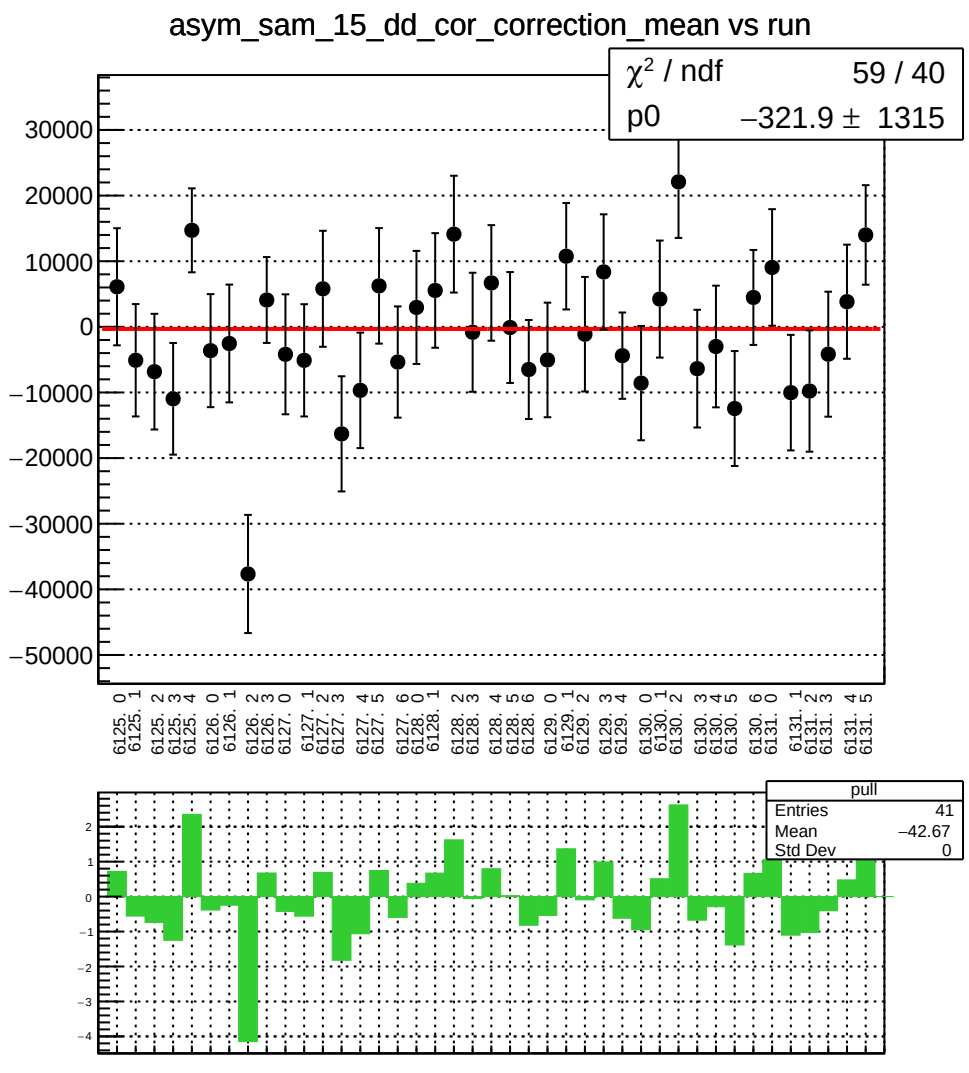

pull1D
Entries 41
Mean −0.03605
Std Dev 1.199
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

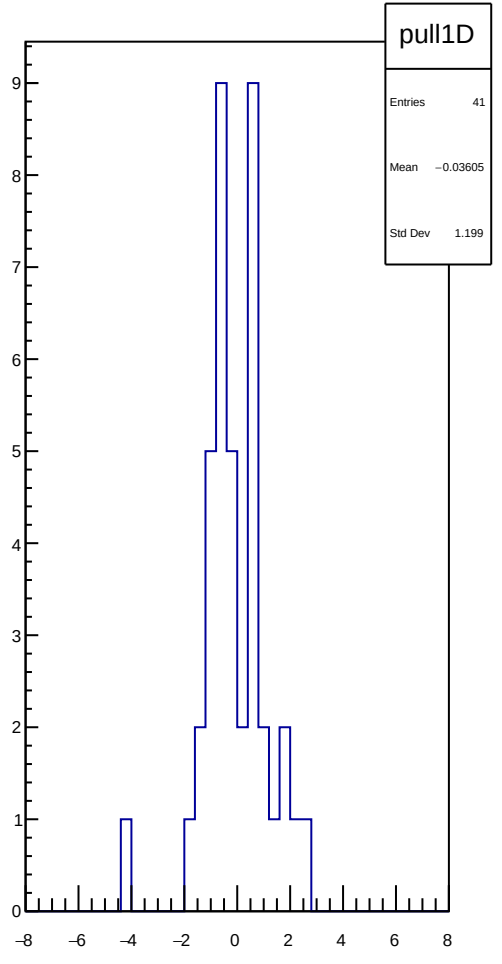

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 1013 / 40
p0 833.5 ± 0.9299
920
900
880
860
840
820
800
780
760
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

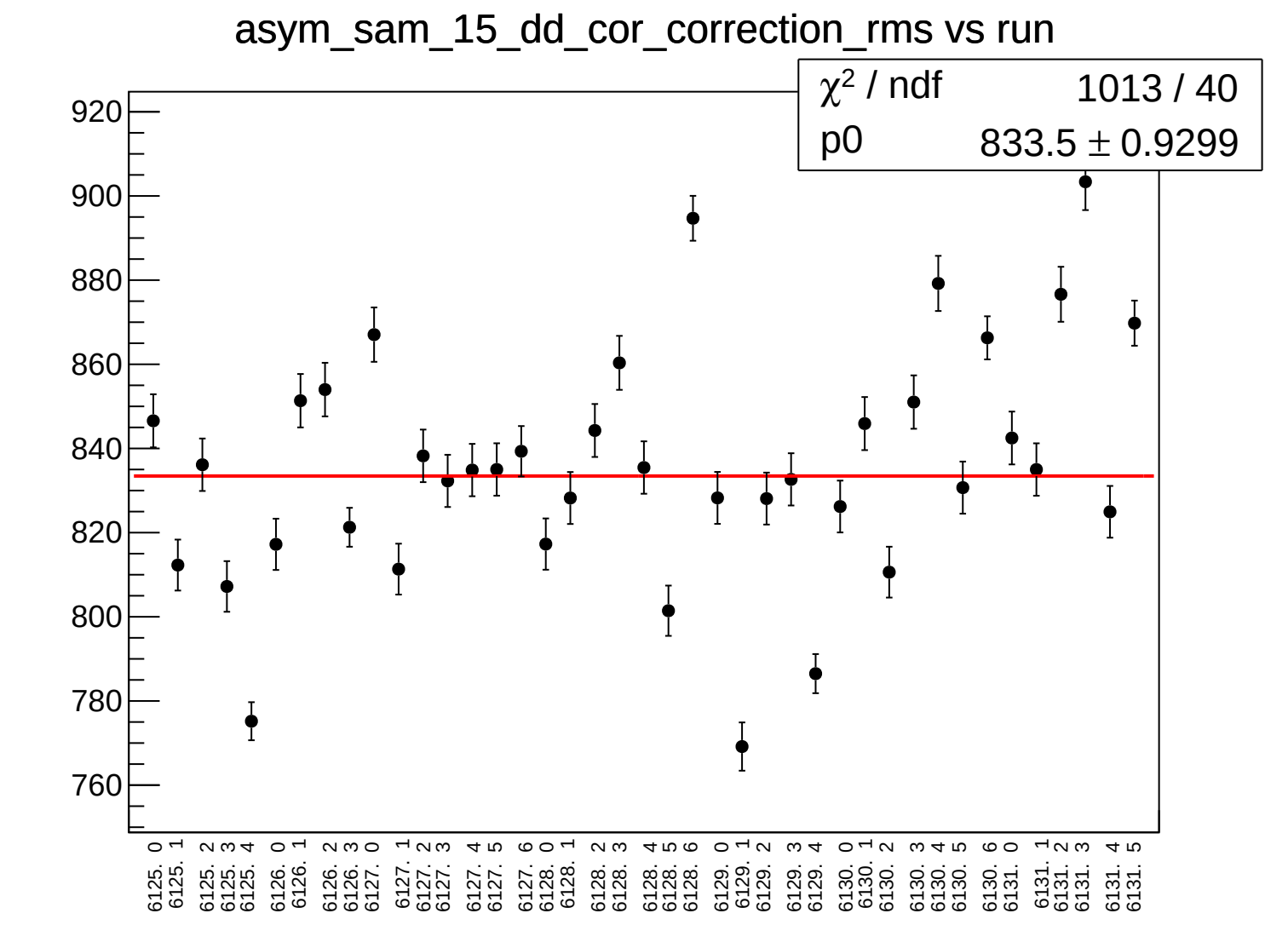

cor_asym_sam_15_dd_mean vs run
χ² / ndf 31.85 / 40
p0 40.44 ± 148.2
4000
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 68.82
Std Dev 0
2
1
0
−1
−2

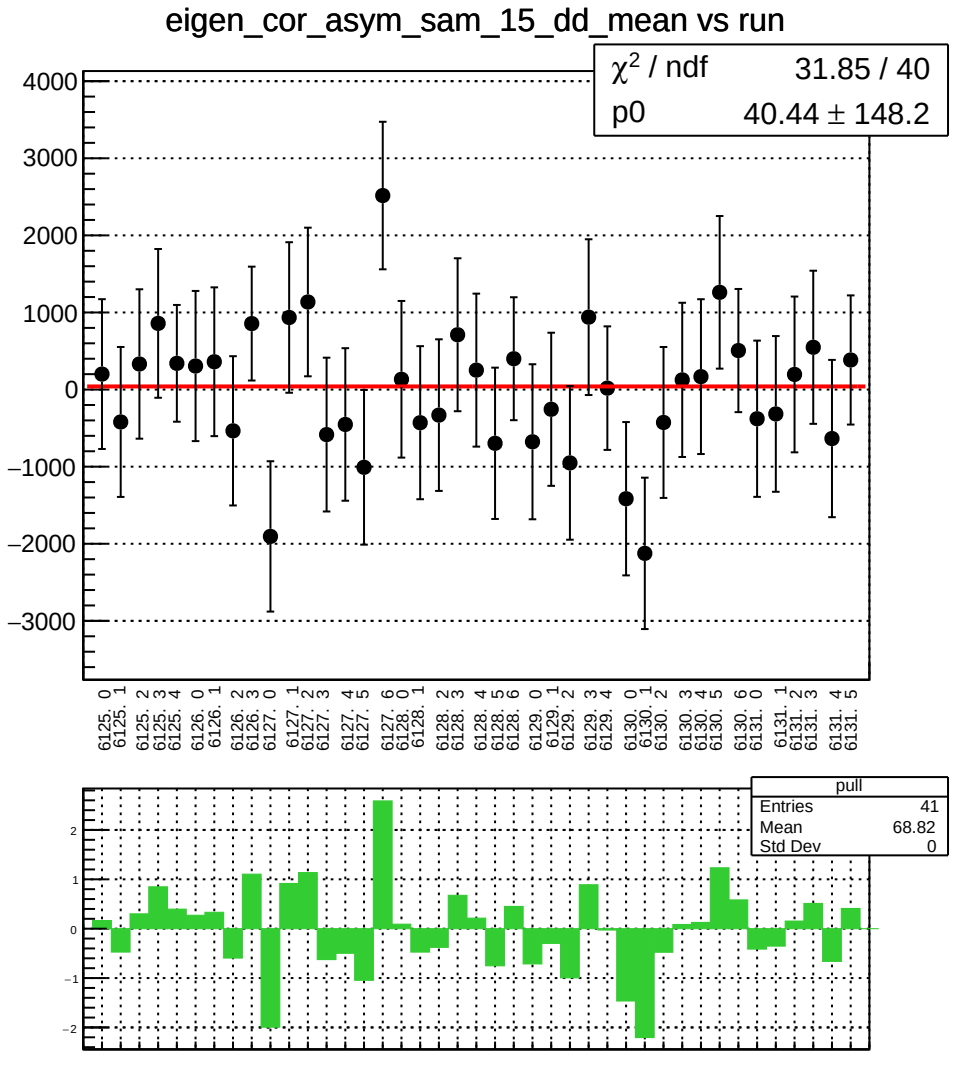

pull1D
Entries 41
Mean −0.02337
Std Dev 0.8811
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

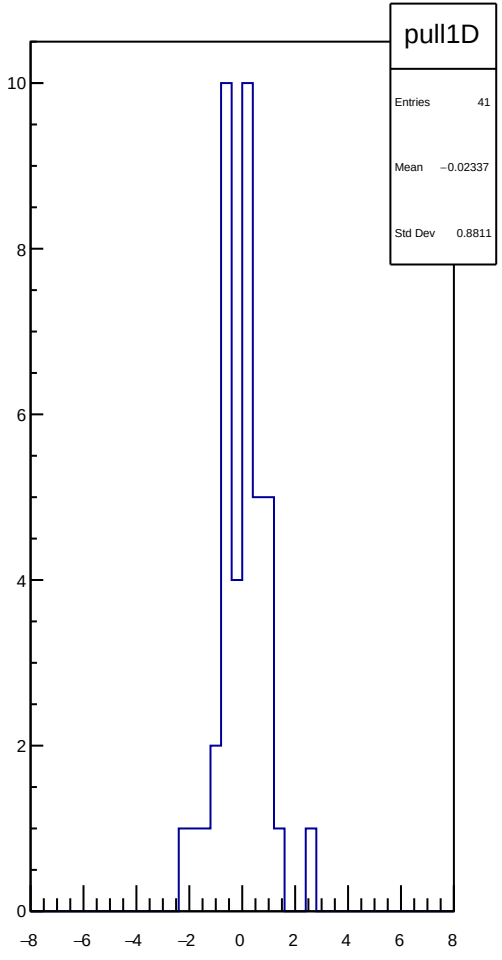

cor_asym_sam_15_dd_rms vs run
χ² / ndf 218.3 / 40
p0 93.96 ± 0.1048
98
97
96
95
94
93
92
91
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

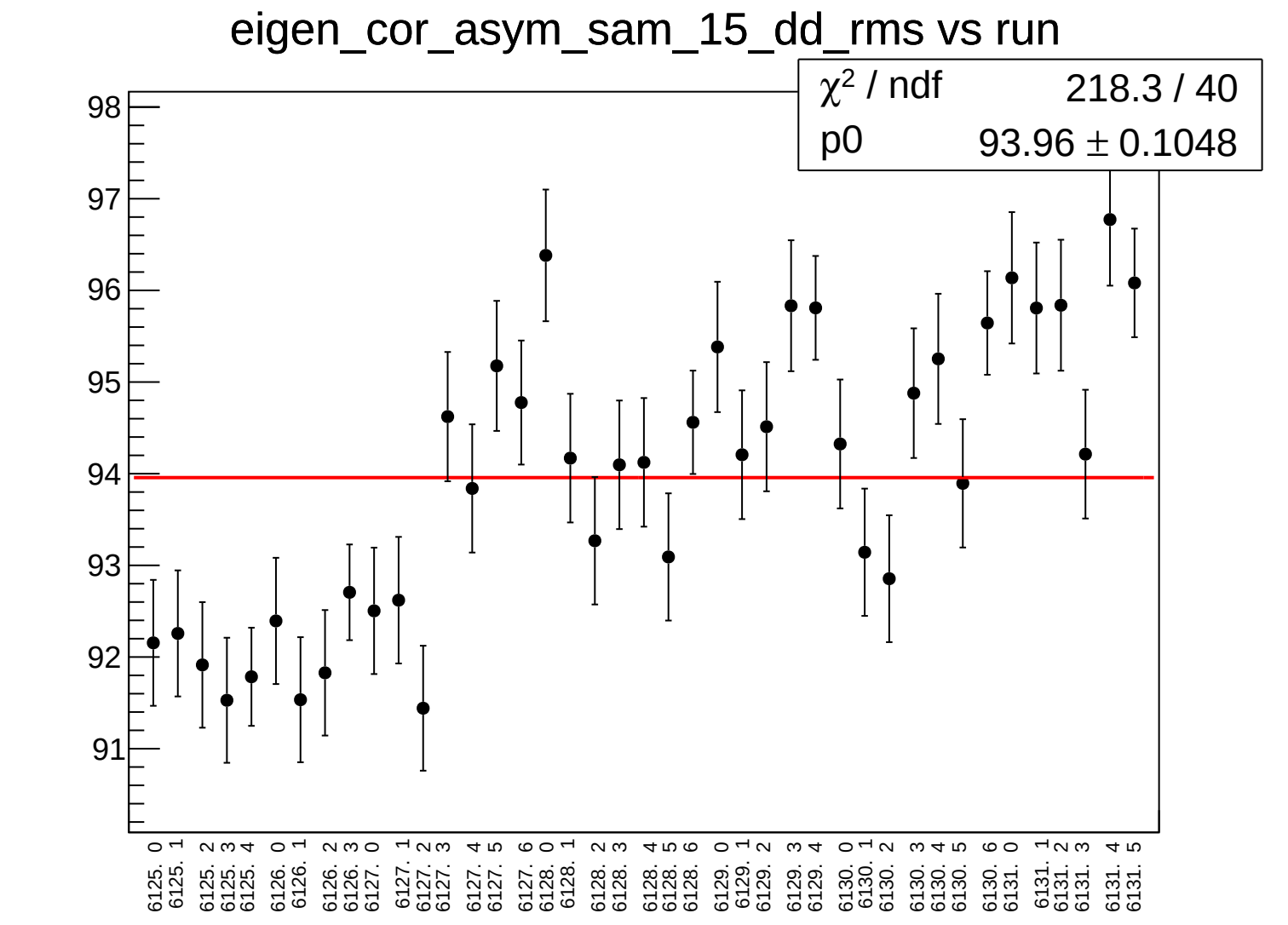

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 59 / 40
p0 −321.9 ± 1315
pull
Entries 41
Mean −42.67
Std Dev 0

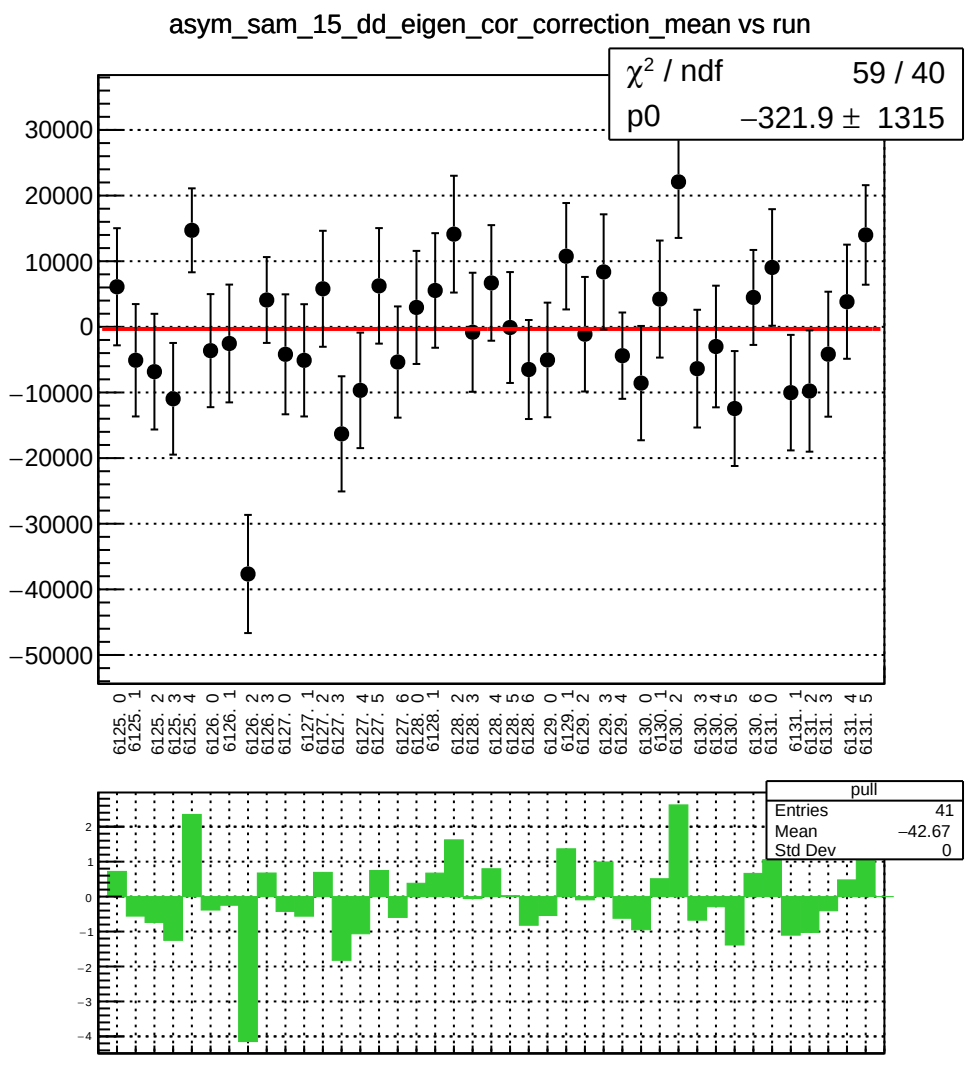

pull1D
Entries 41
Mean −0.03605
Std Dev 1.199

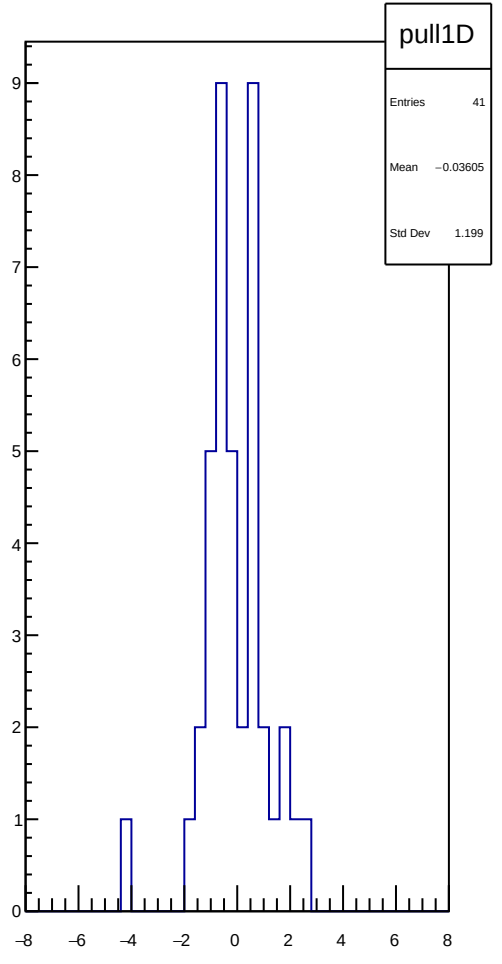

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 1013 / 40
p0 833.5 ± 0.9299
920
900
880
860
840
820
800
780
760
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

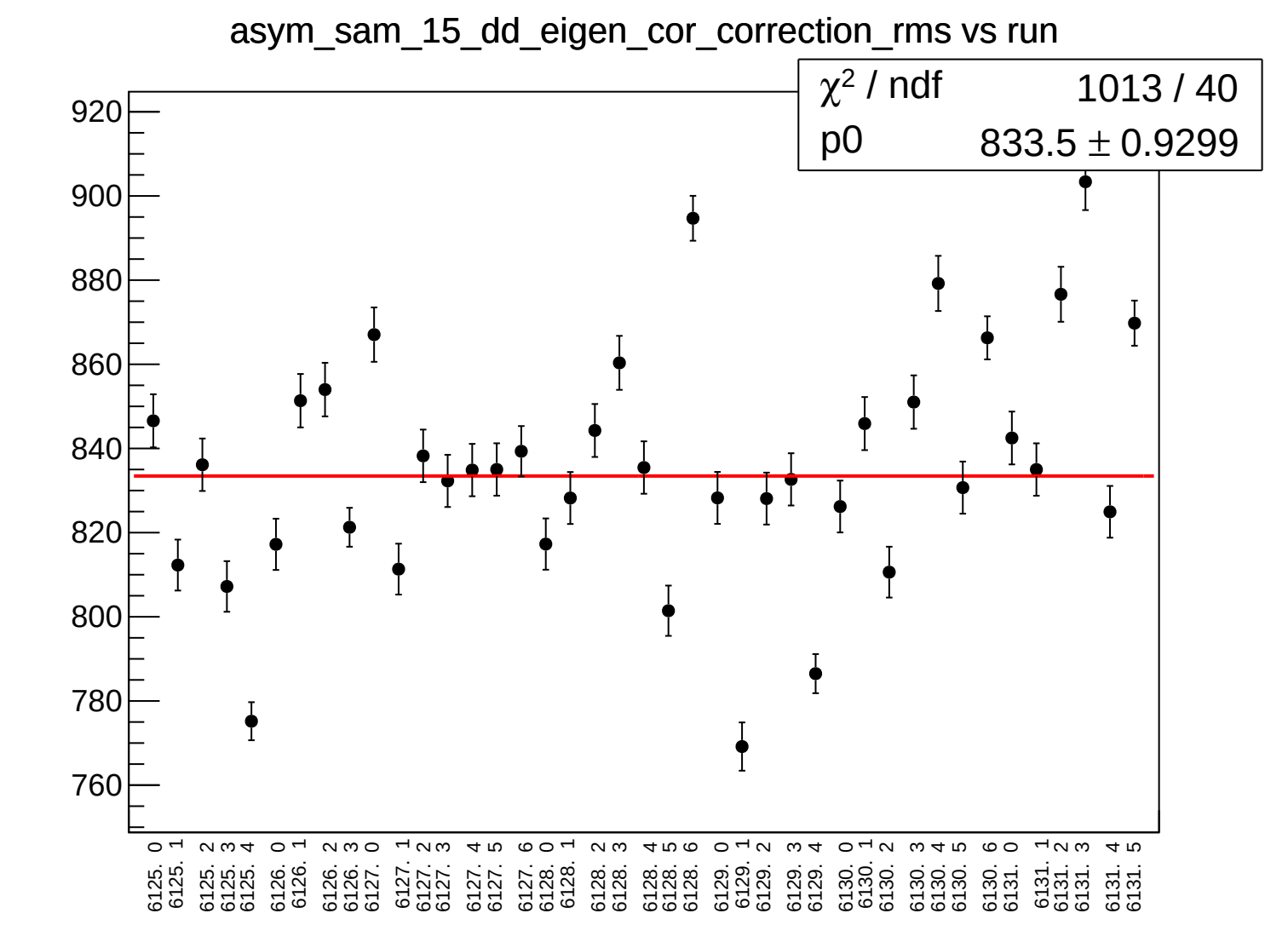

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 31.85 / 40
p0 40.44 ± 148.2
4000
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 68.82
Std Dev 0
2
1
0
−1
−2

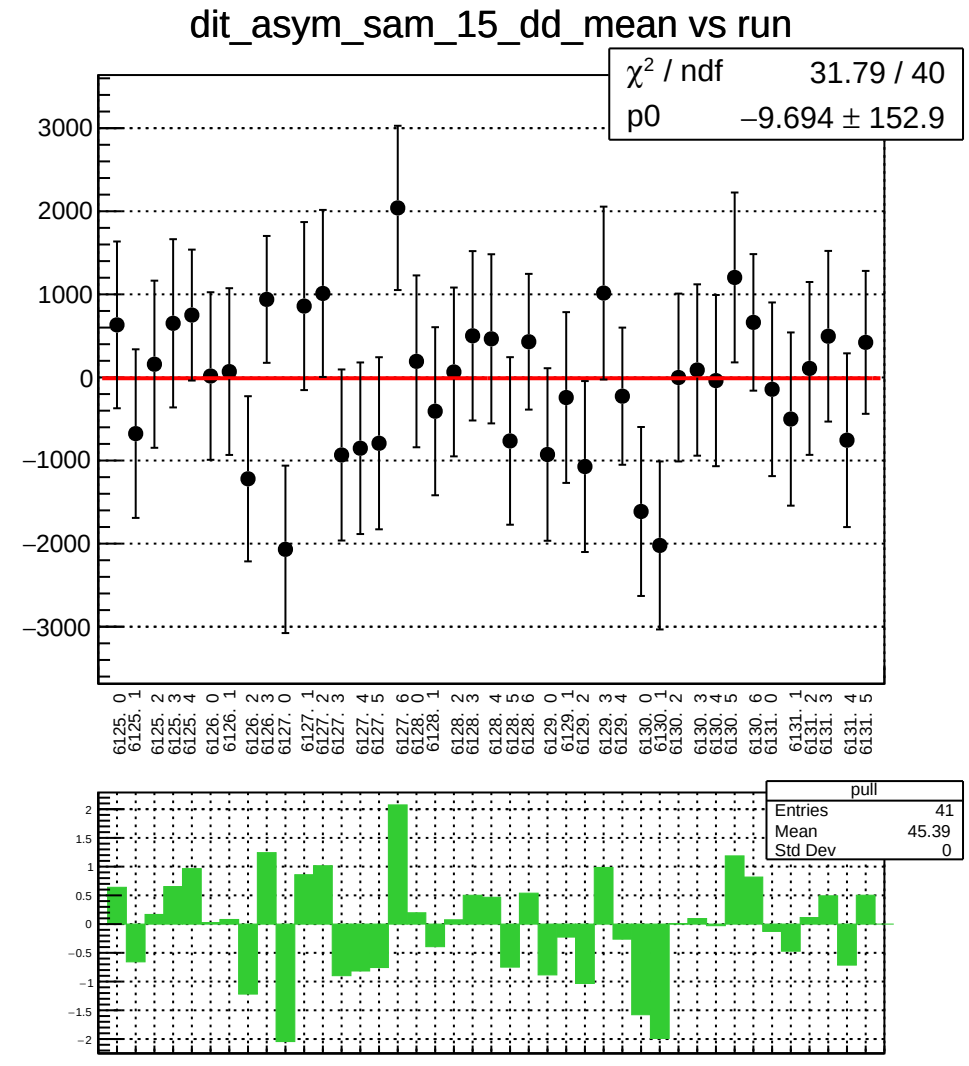

pull1D
Entries 41
Mean −0.02337
Std Dev 0.8811
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

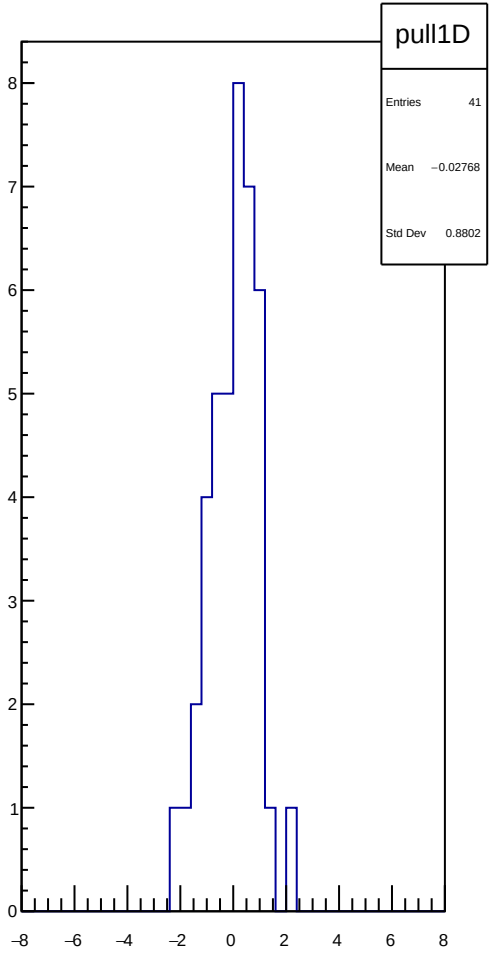

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 218.3 / 40
p0 93.96 ± 0.1048
98
97
96
95
94
93
92
91
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

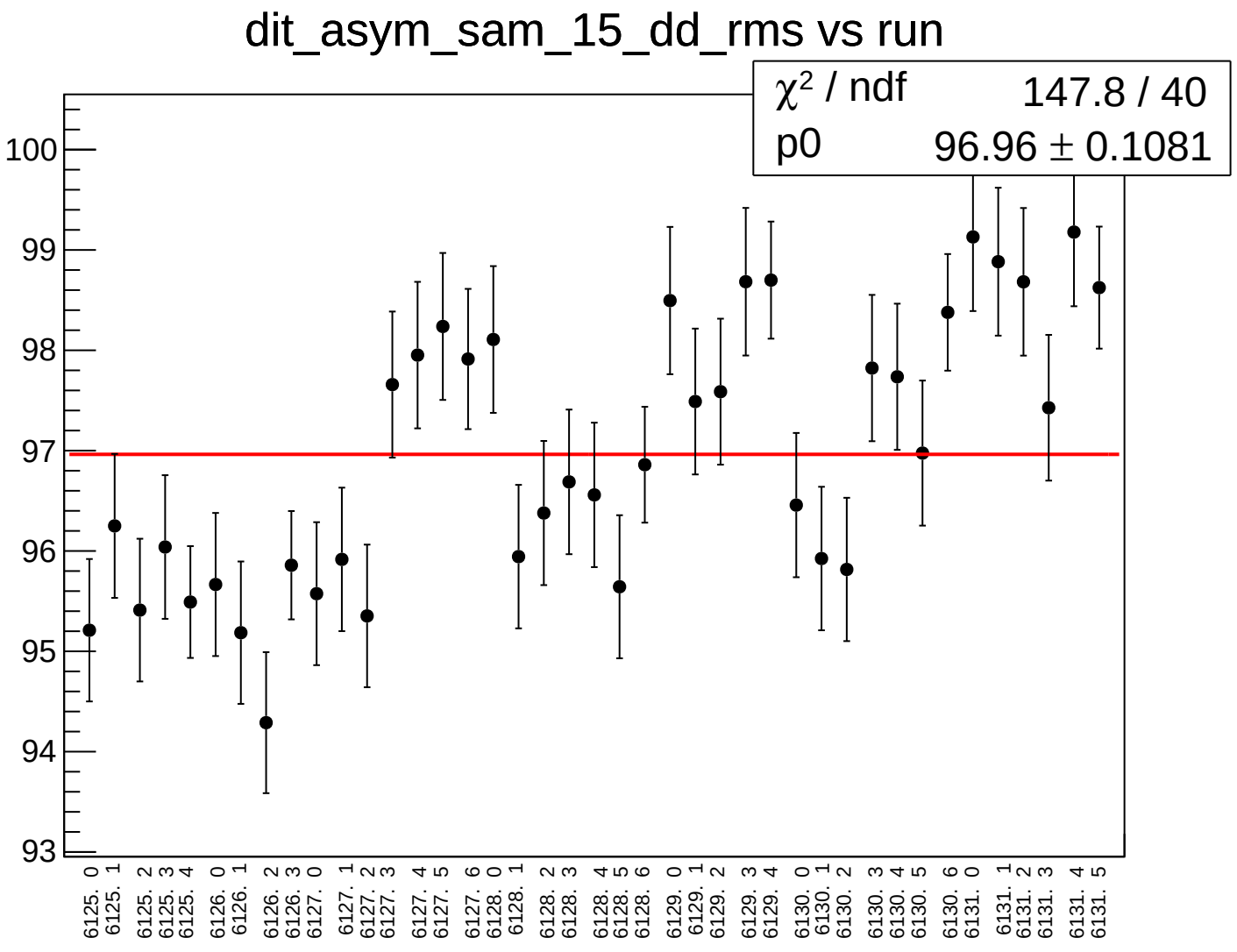

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 59 / 40
p0 −321.9 ± 1315
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −42.67
Std Dev 0
2
1
0
−1
−2
−3
−4

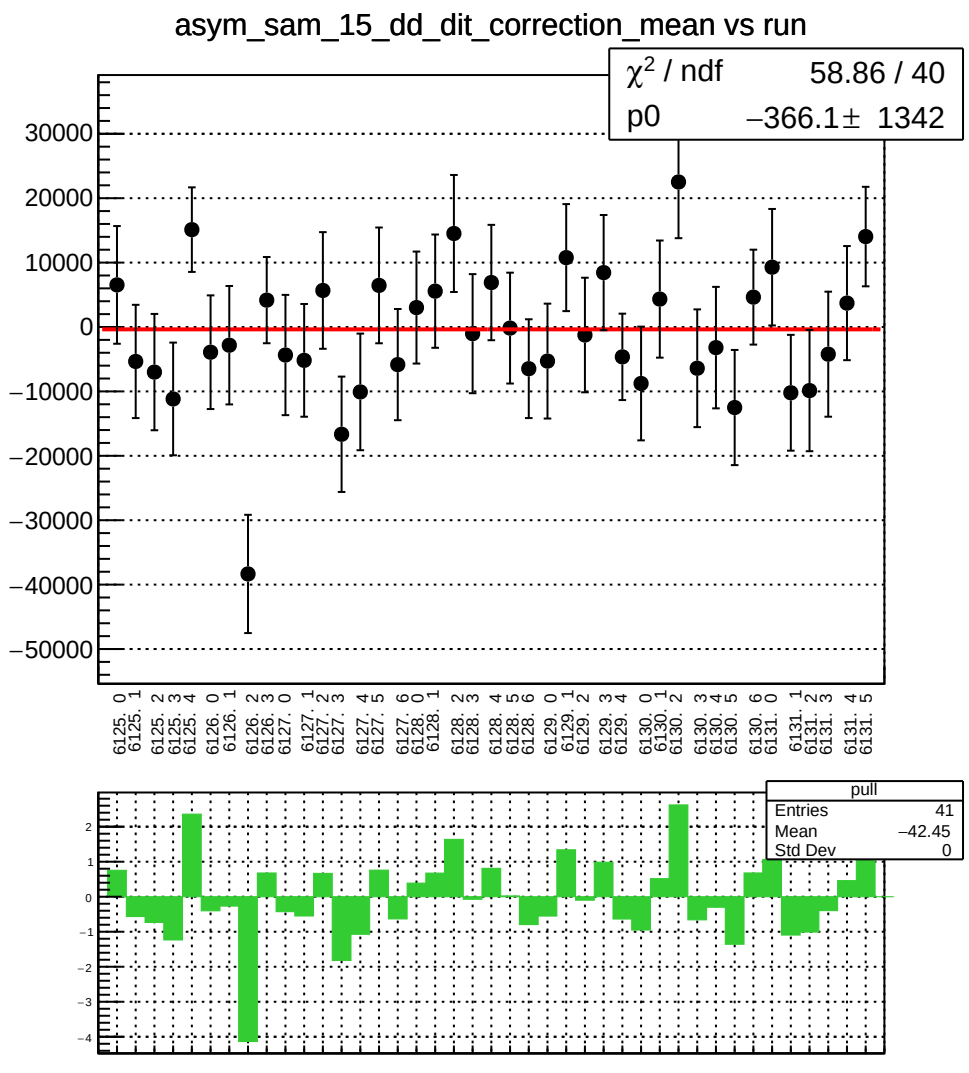

pull1D
Entries 41
Mean −0.03605
Std Dev 1.199
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

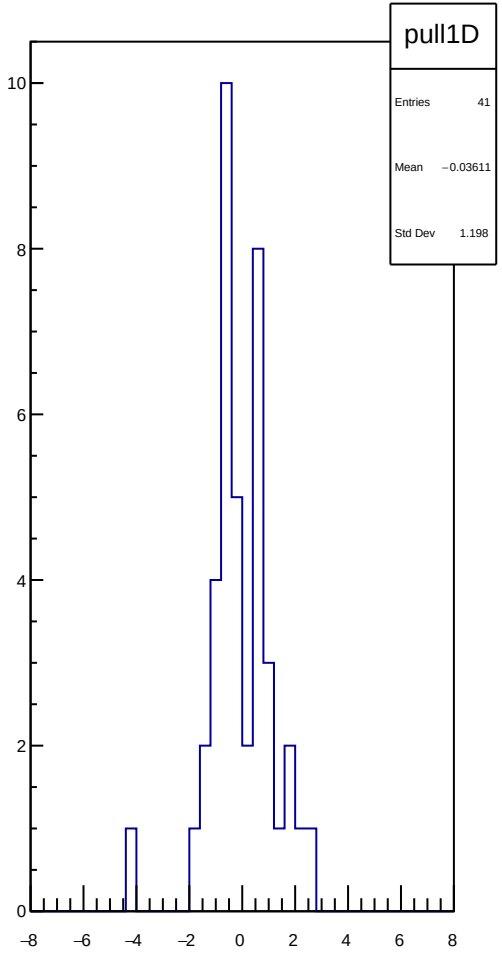

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 1013 / 40
p0 833.5 ± 0.9299
920
900
880
860
840
820
800
780
760
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

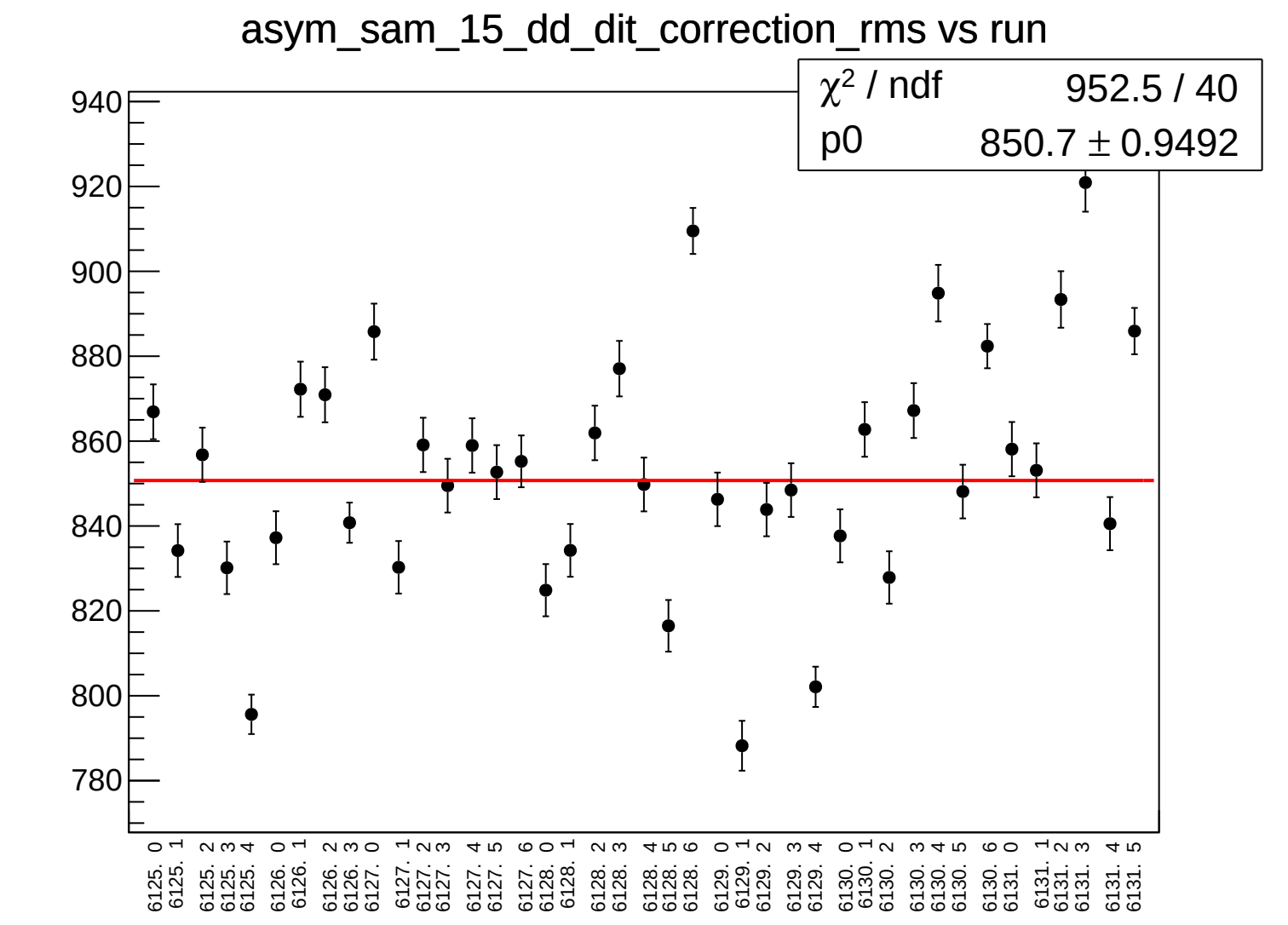

dit_asym_sam_15_dd_mean vs run
χ² / ndf 31.79 / 40
p0 −9.694 ± 152.9
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 45.39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

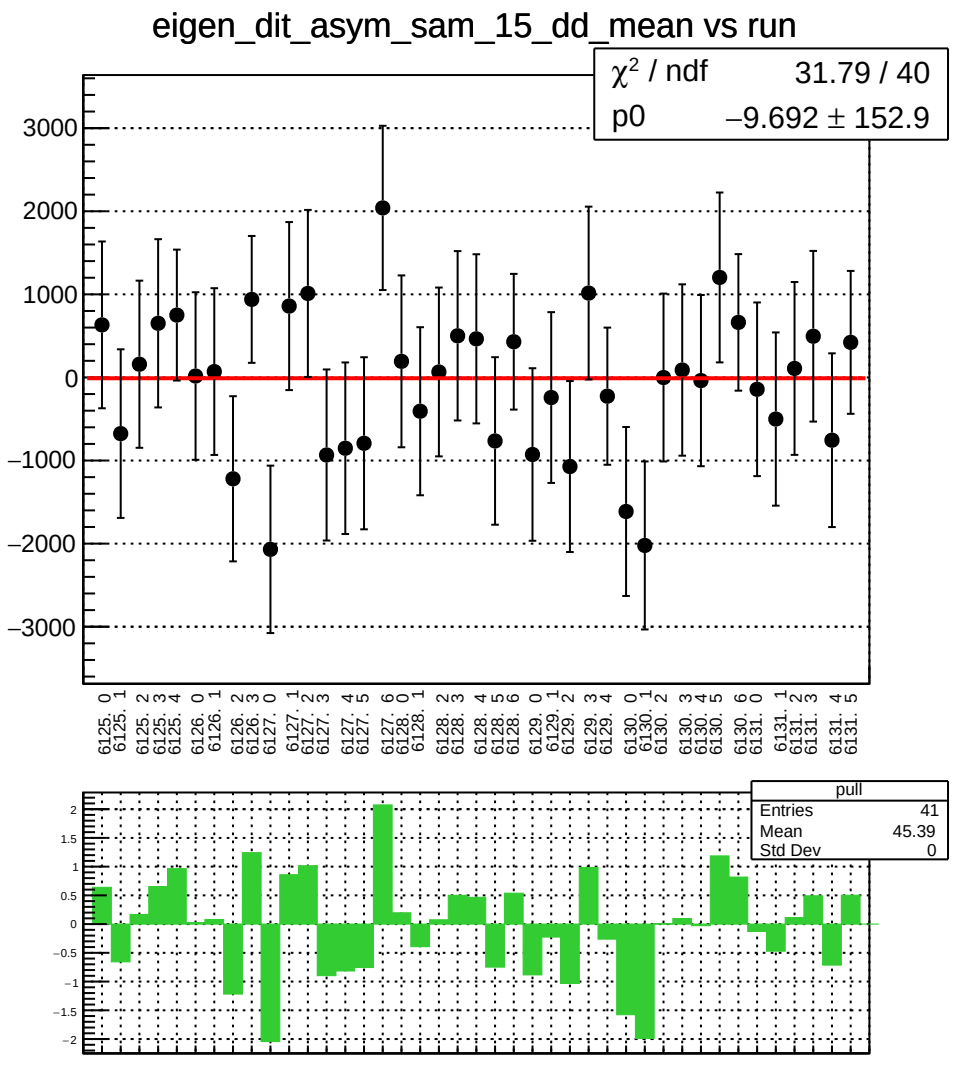

pull1D
Entries 41
Mean −0.02768
Std Dev 0.8802
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

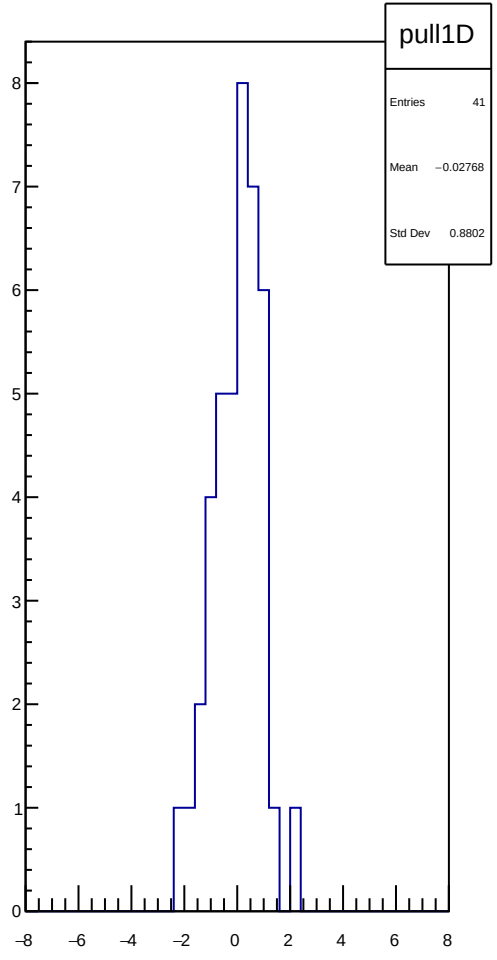

dit_asym_sam_15_dd_rms vs run
χ² / ndf 147.8 / 40
p0 96.96 ± 0.1081
100
99
98
97
96
95
94
93
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

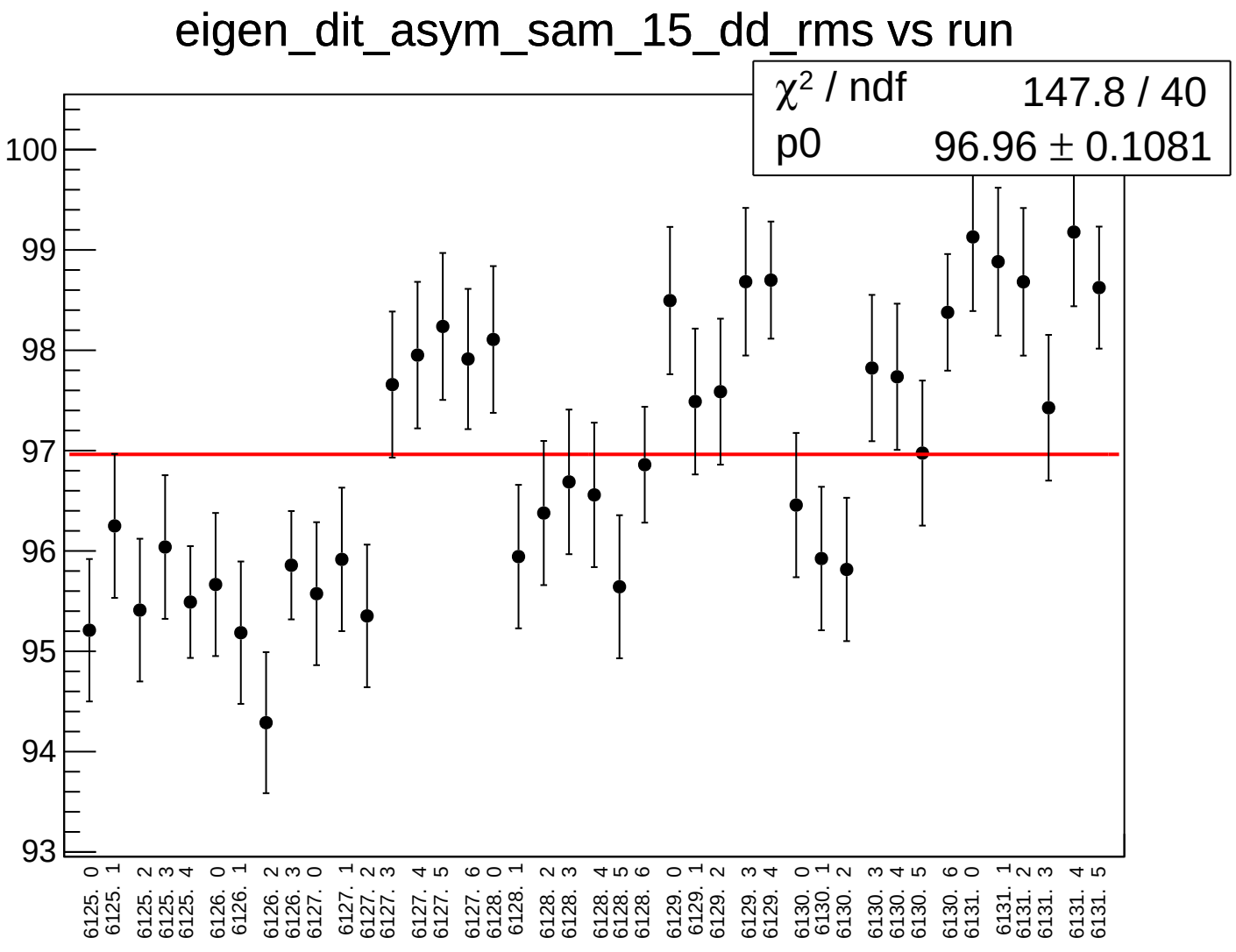

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 58.86 / 40
p0 −366.1± 1342
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −42.45
Std Dev 0
2
1
0
−1
−2
−3
−4

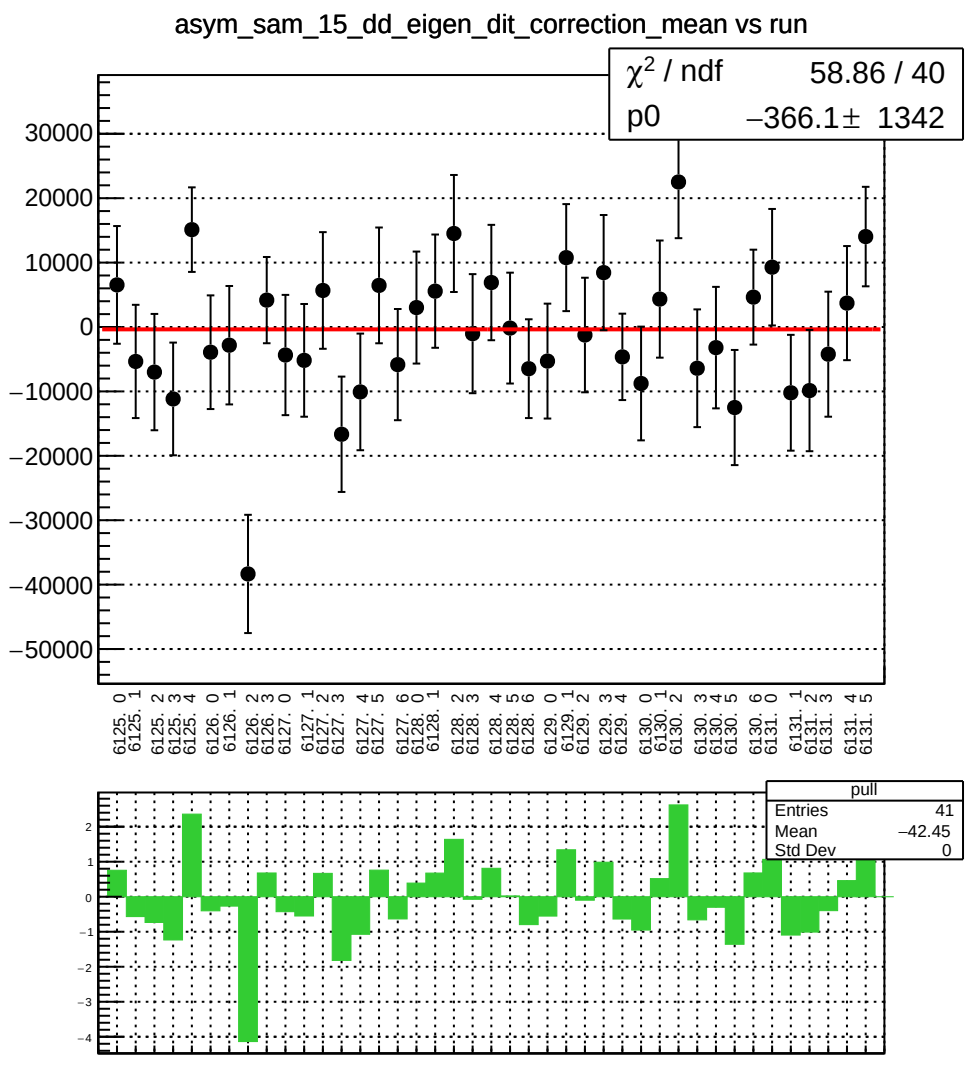

pull1D
Entries 41
Mean −0.03611
Std Dev 1.198
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

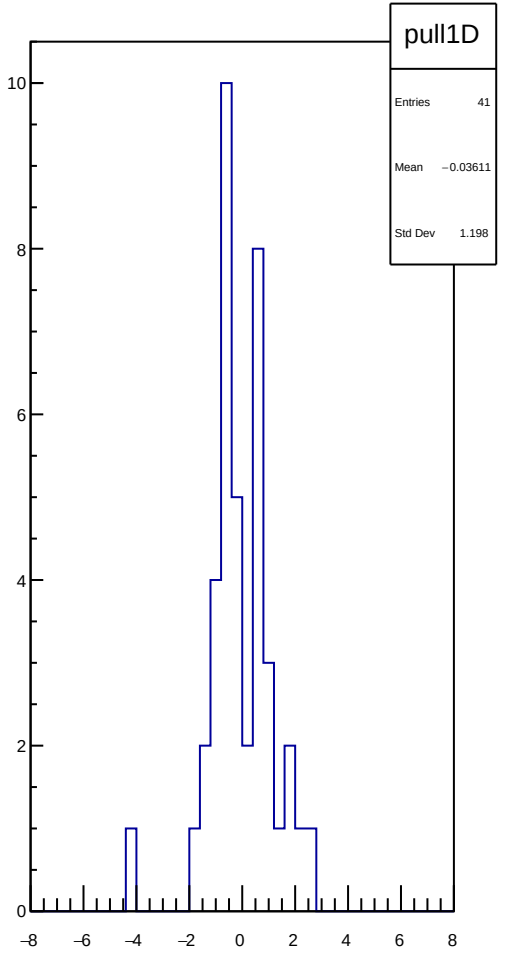

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 952.5 / 40
p0 850.7 ± 0.9492
940
920
900
880
860
840
820
800
780
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

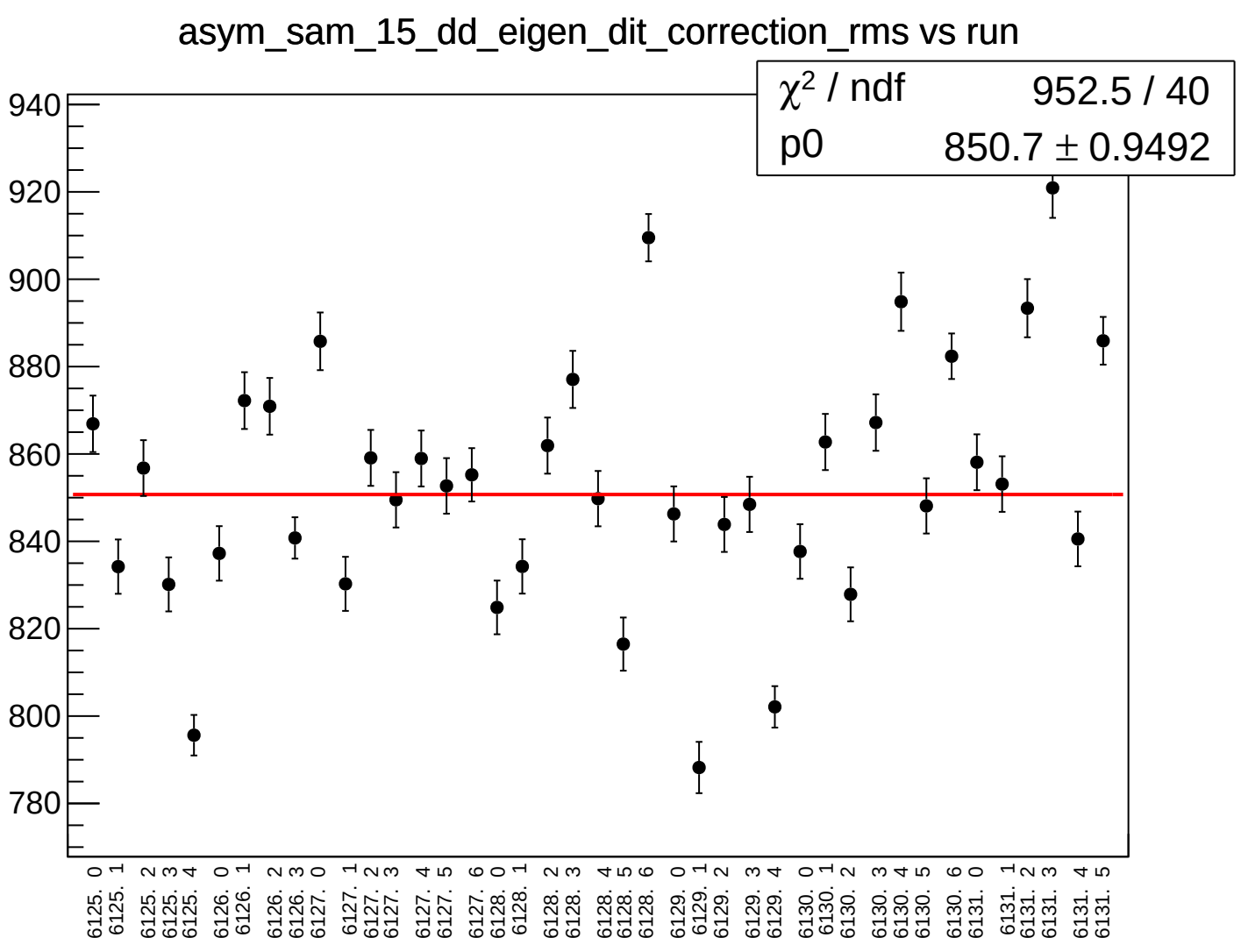

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 31.79 / 40
p0 −9.692 ± 152.9
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 45.39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

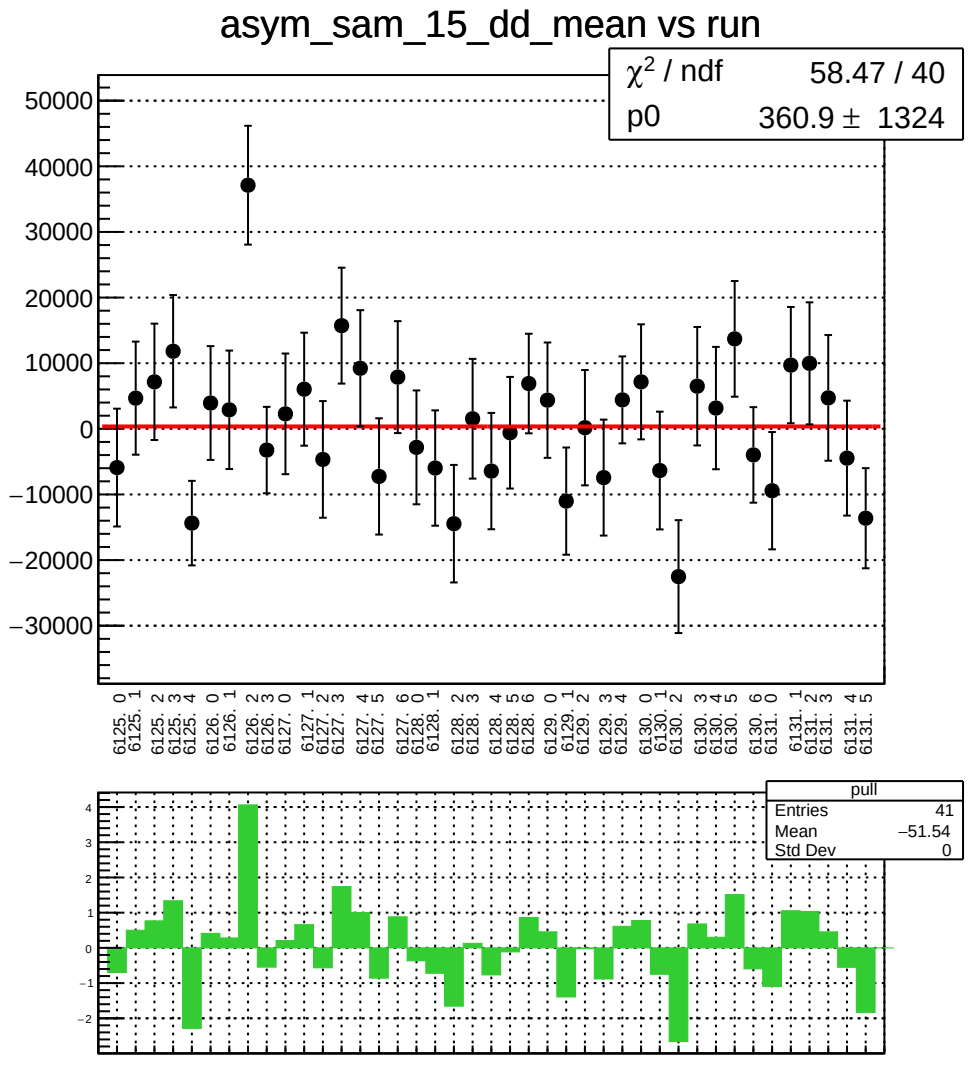

pull1D
Entries 41
Mean −0.02768
Std Dev 0.8802
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

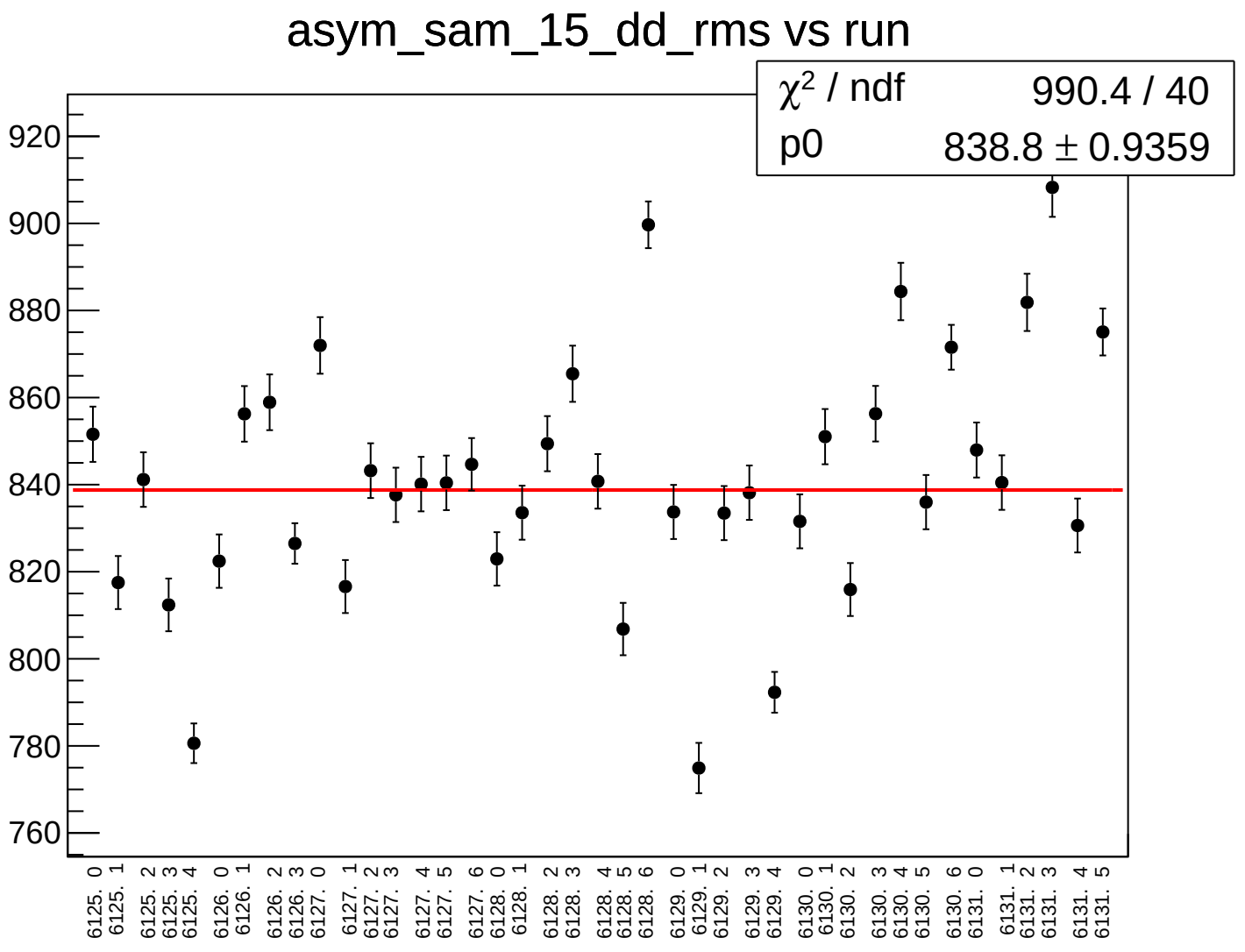

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 147.8 / 40
p0 96.96 ± 0.1081
100
99
98
97
96
95
94
93
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

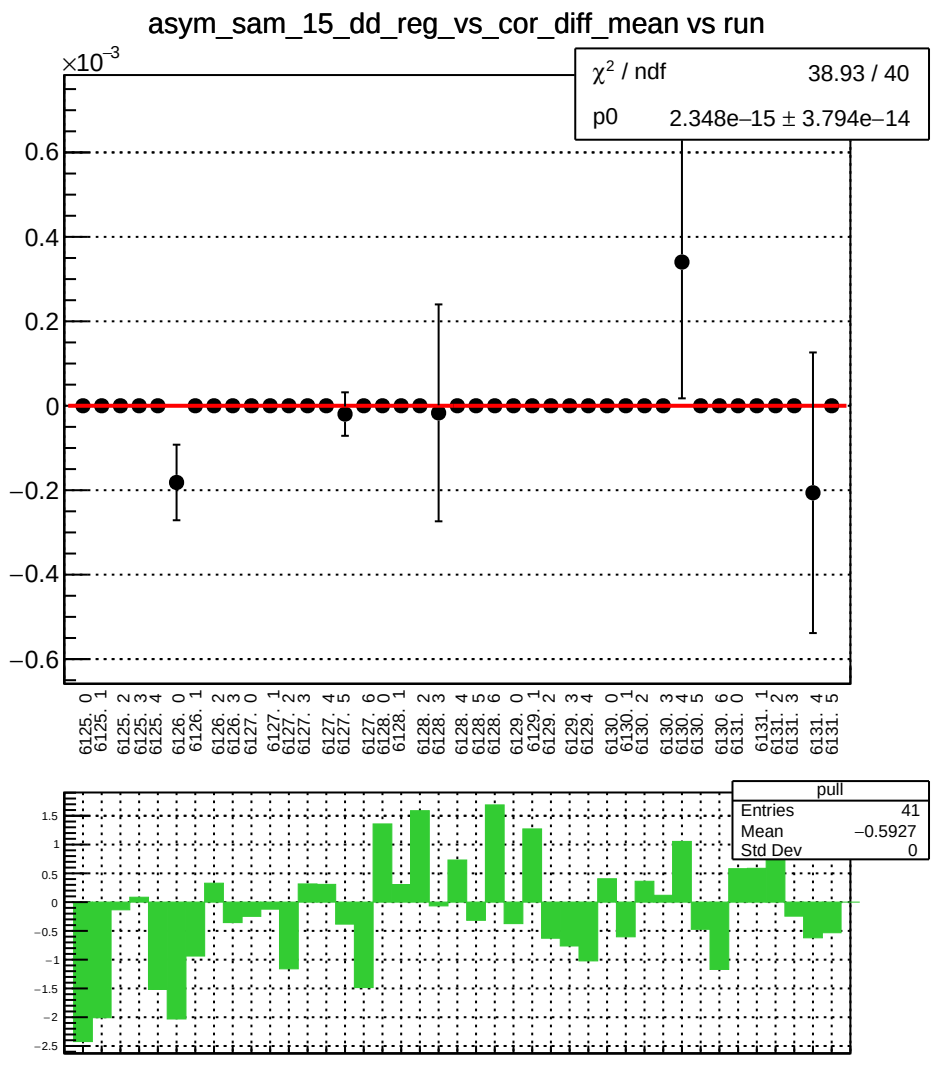

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 58.86 / 40
p0 −366.1± 1342
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −42.45
Std Dev 0
2
1
0
−1
−2
−3
−4

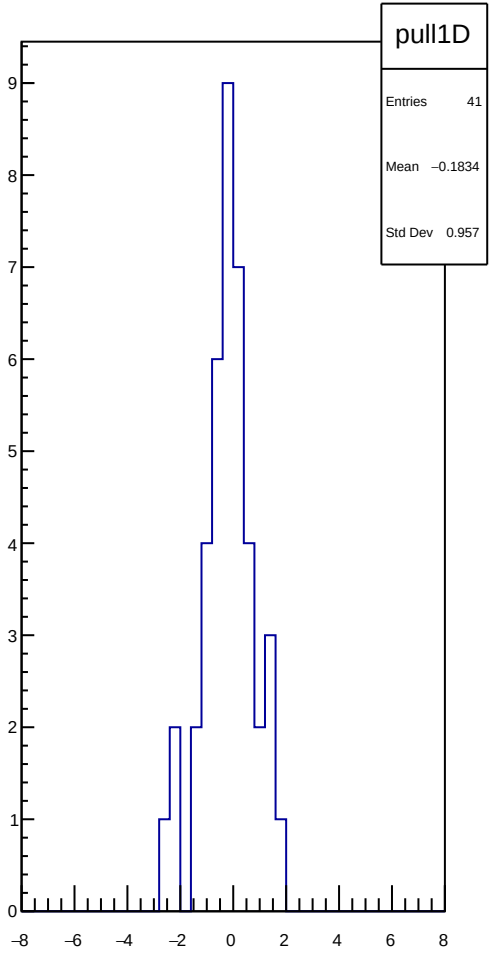

pull1D
Entries 41
Mean −0.03611
Std Dev 1.198
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

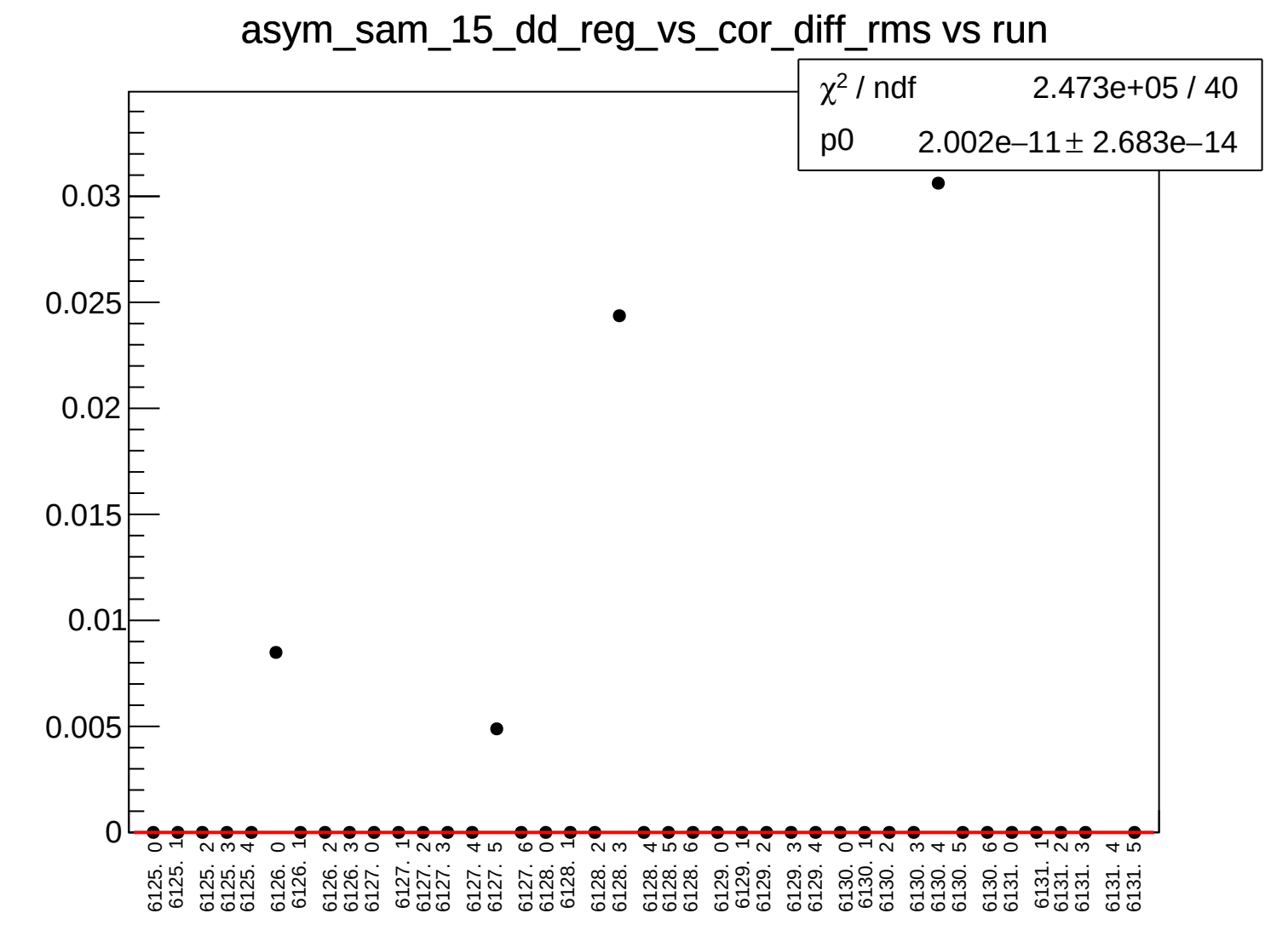

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 952.5 / 40
p0 850.7 ± 0.9492
940
920
900
880
860
840
820
800
780
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

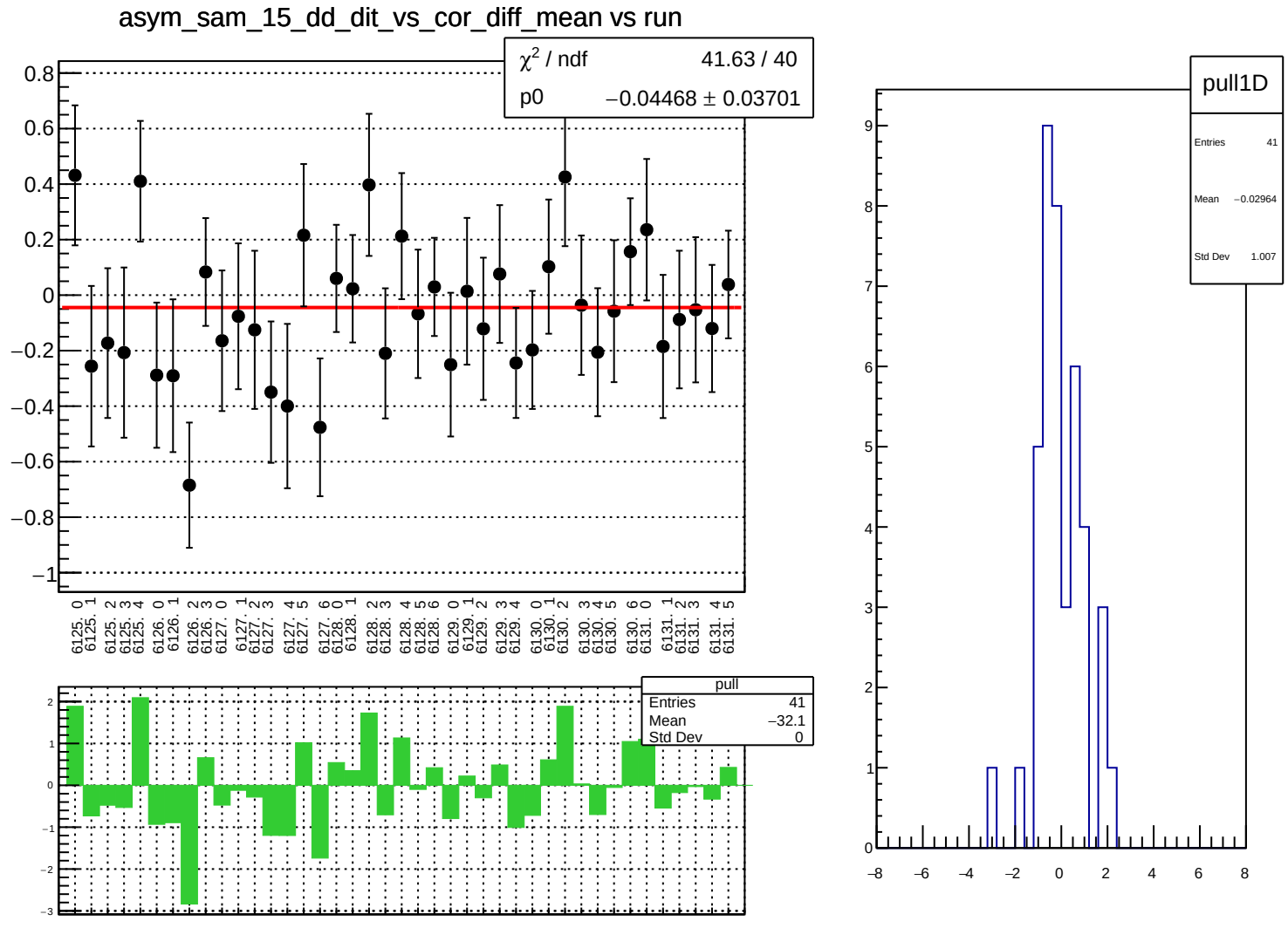

asym_sam_15_dd_mean vs run
χ² / ndf 58.47 / 40
p0 360.9 ± 1324
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −51.54
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.03329
Std Dev 1.194
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

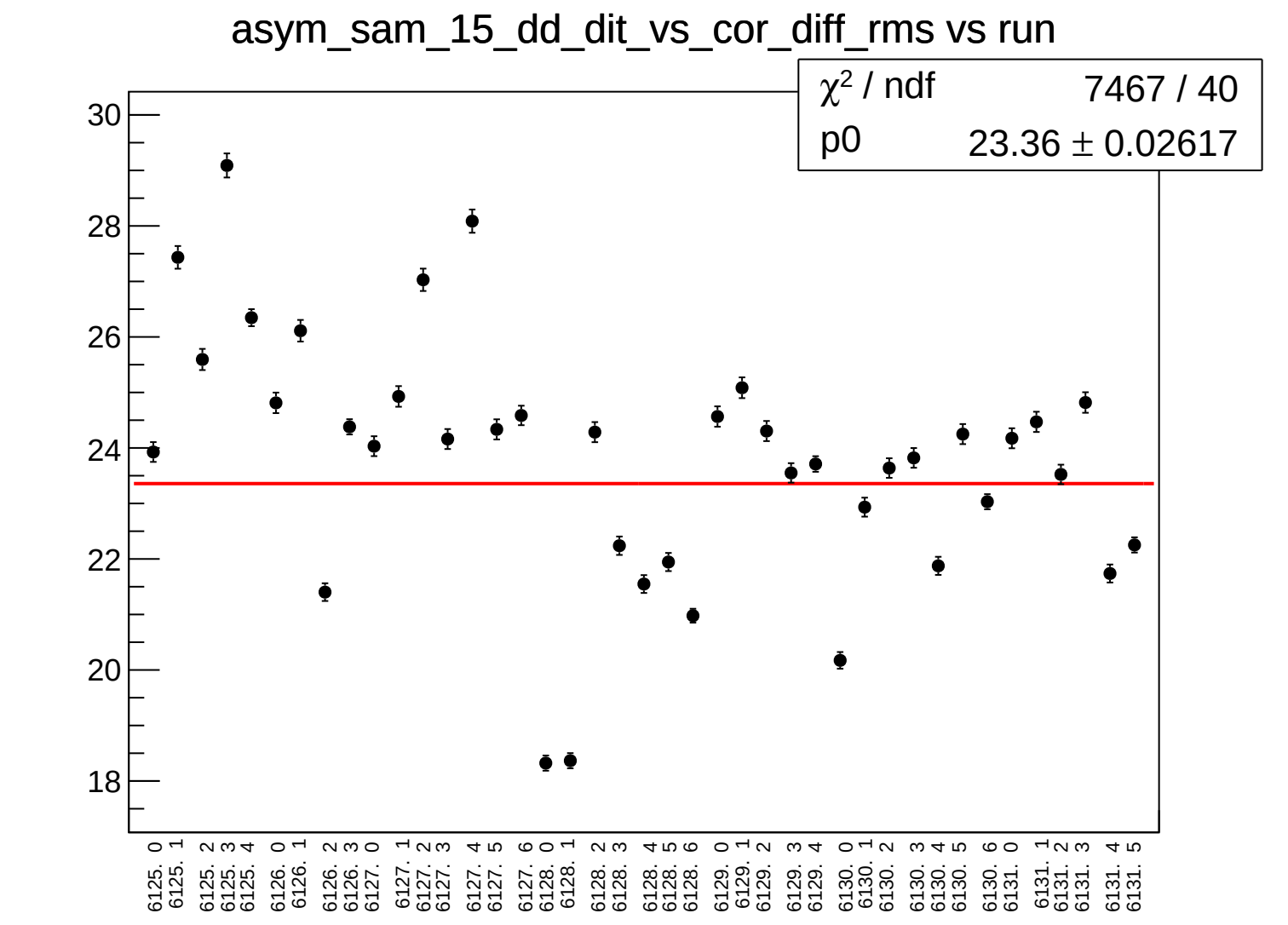

asym_sam_15_dd_rms vs run
χ² / ndf 990.4 / 40
p0 838.8 ± 0.9359
920
900
880
860
840
820
800
780
760
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

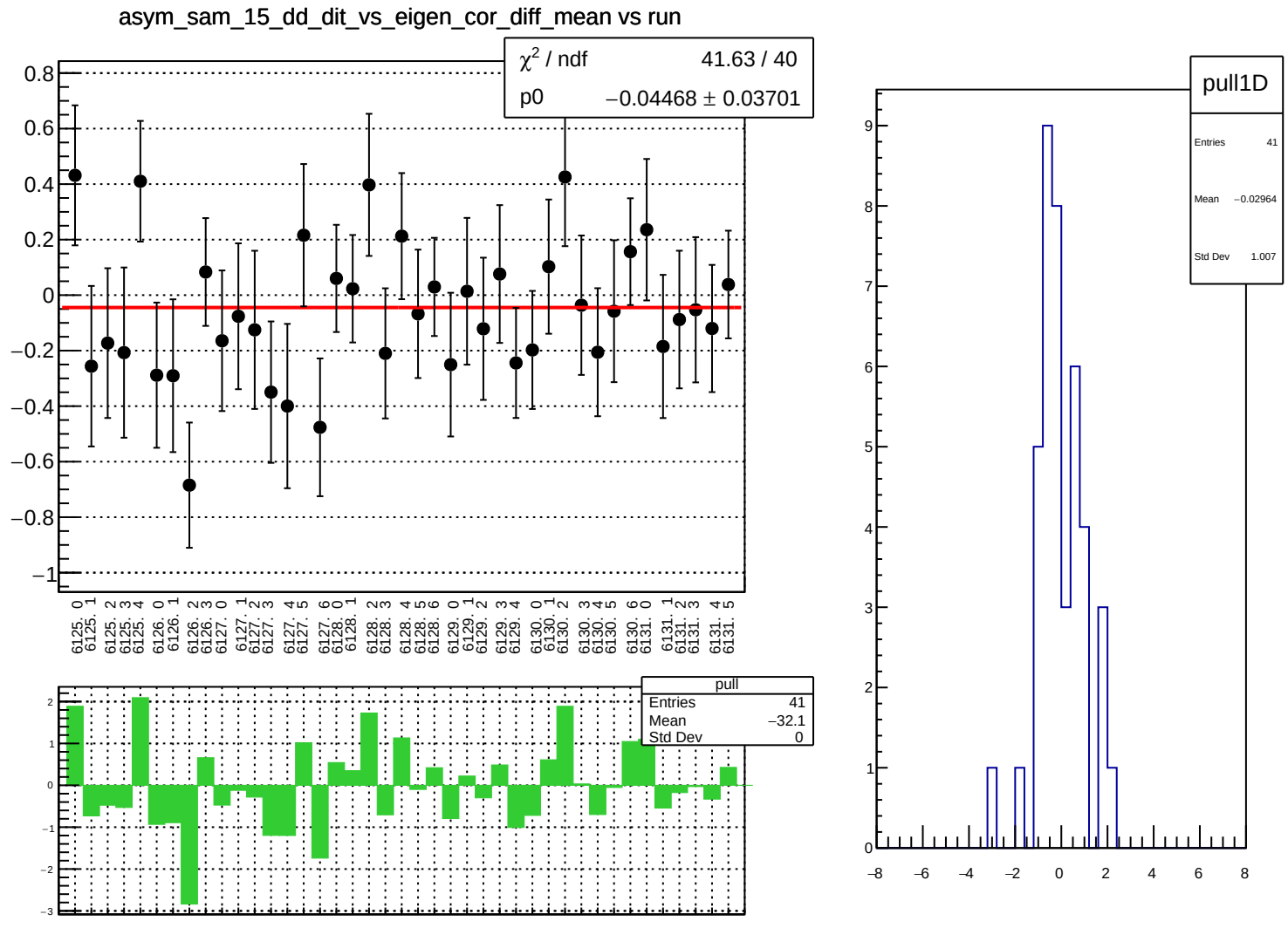

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 38.93 / 40
p0 2.348e−15 ± 3.794e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −0.5927
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

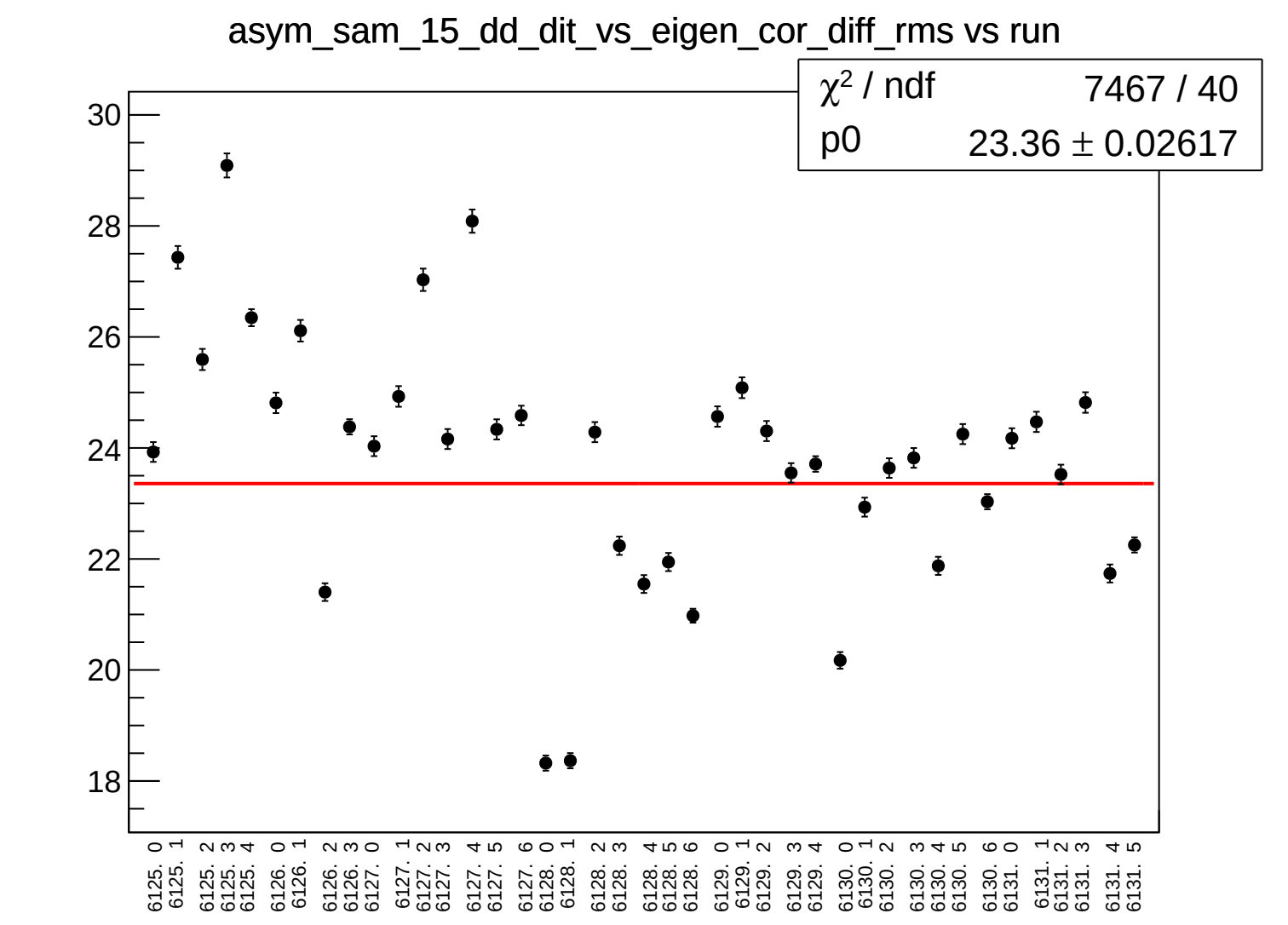

pull1D
Entries 41
Mean −0.1834
Std Dev 0.957
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

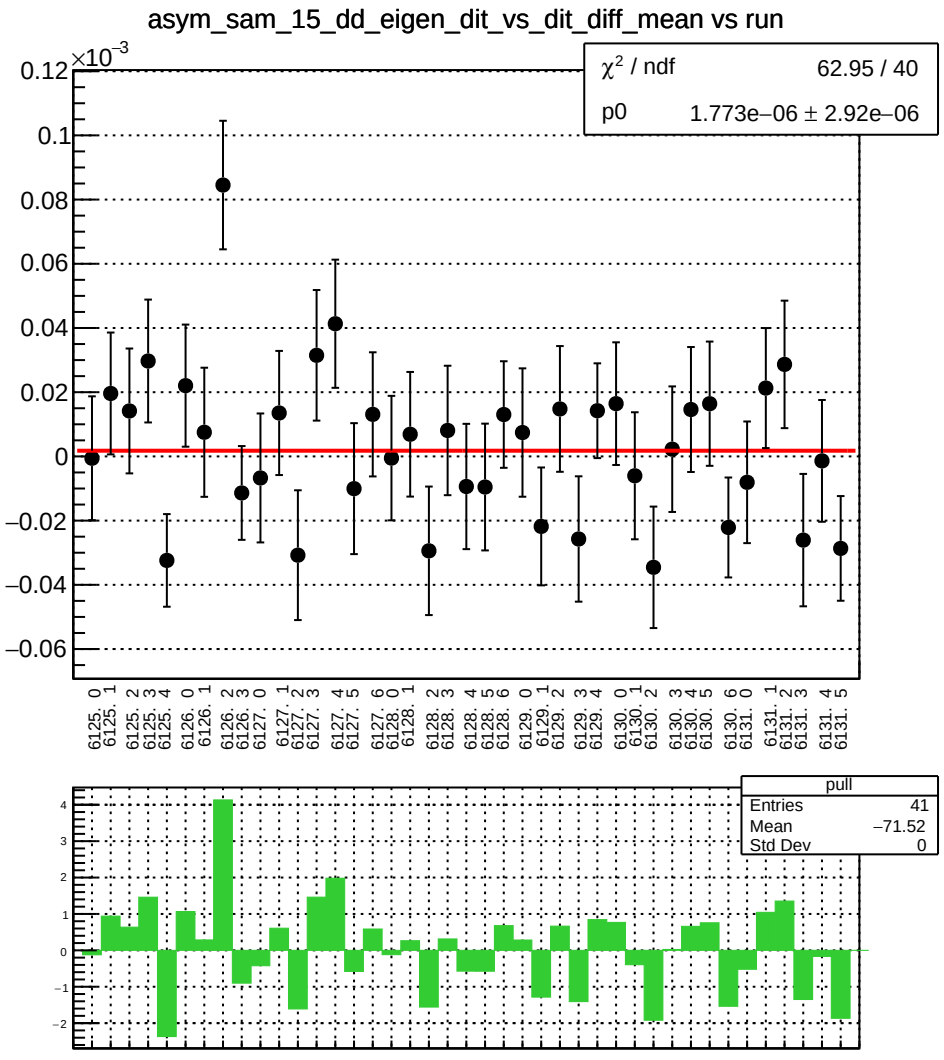

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.473e+05 / 40
p0 2.002e−11 ± 2.683e−14
0.03
0.025
0.02
0.015
0.01
0.005
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

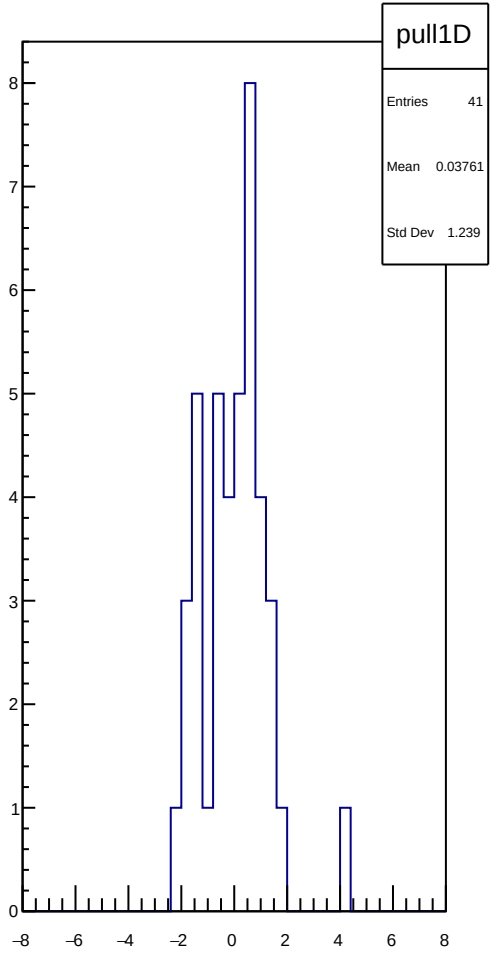

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 41.63 / 40
p0 −0.04468 ± 0.03701
pull
Entries 41
Mean −32.1
Std Dev 0
pull1D
Entries 41
Mean −0.02964
Std Dev 1.007

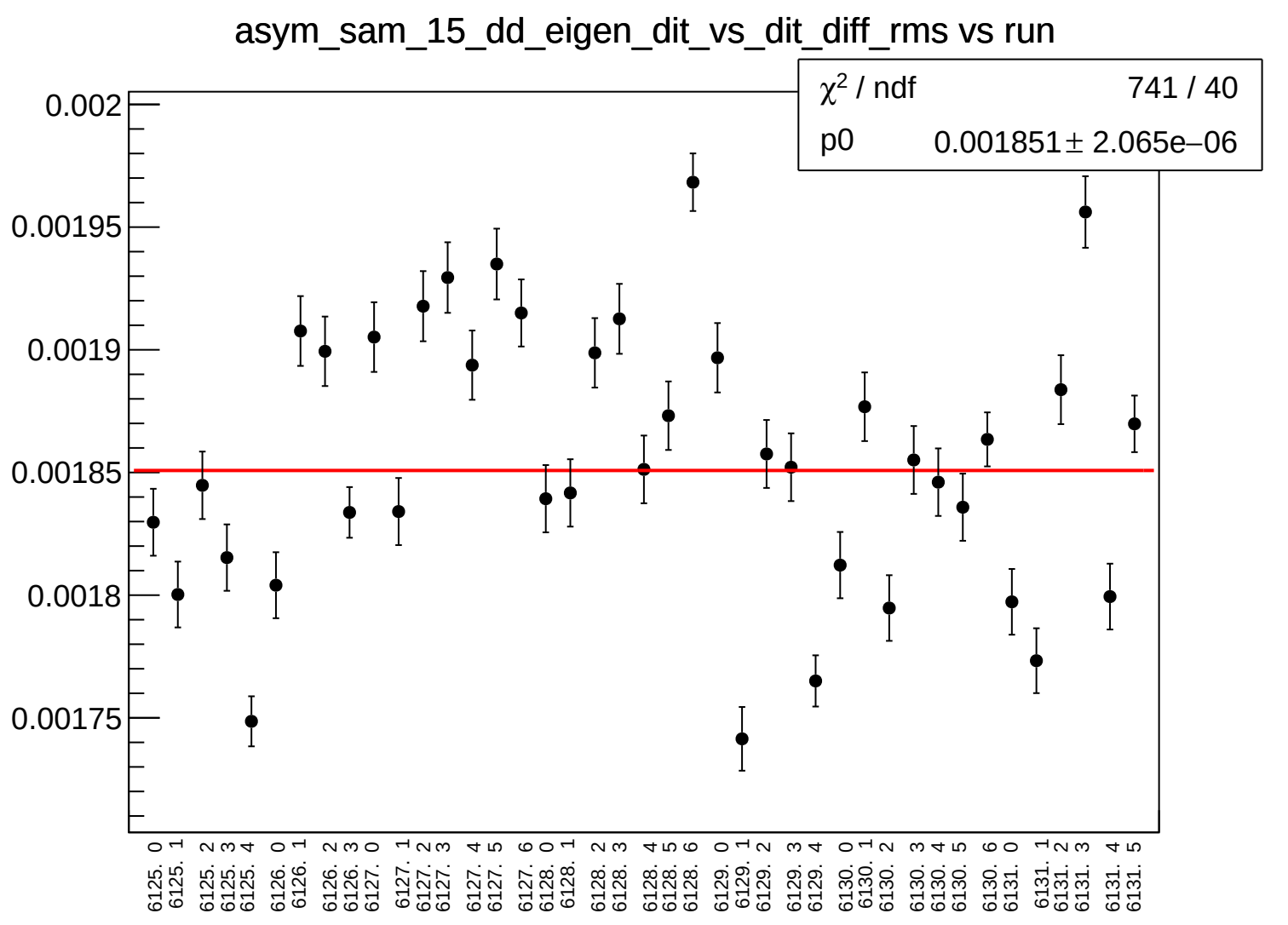

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7467 / 40
p0 23.36 ± 0.02617
30
28
26
24
22
20
18
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

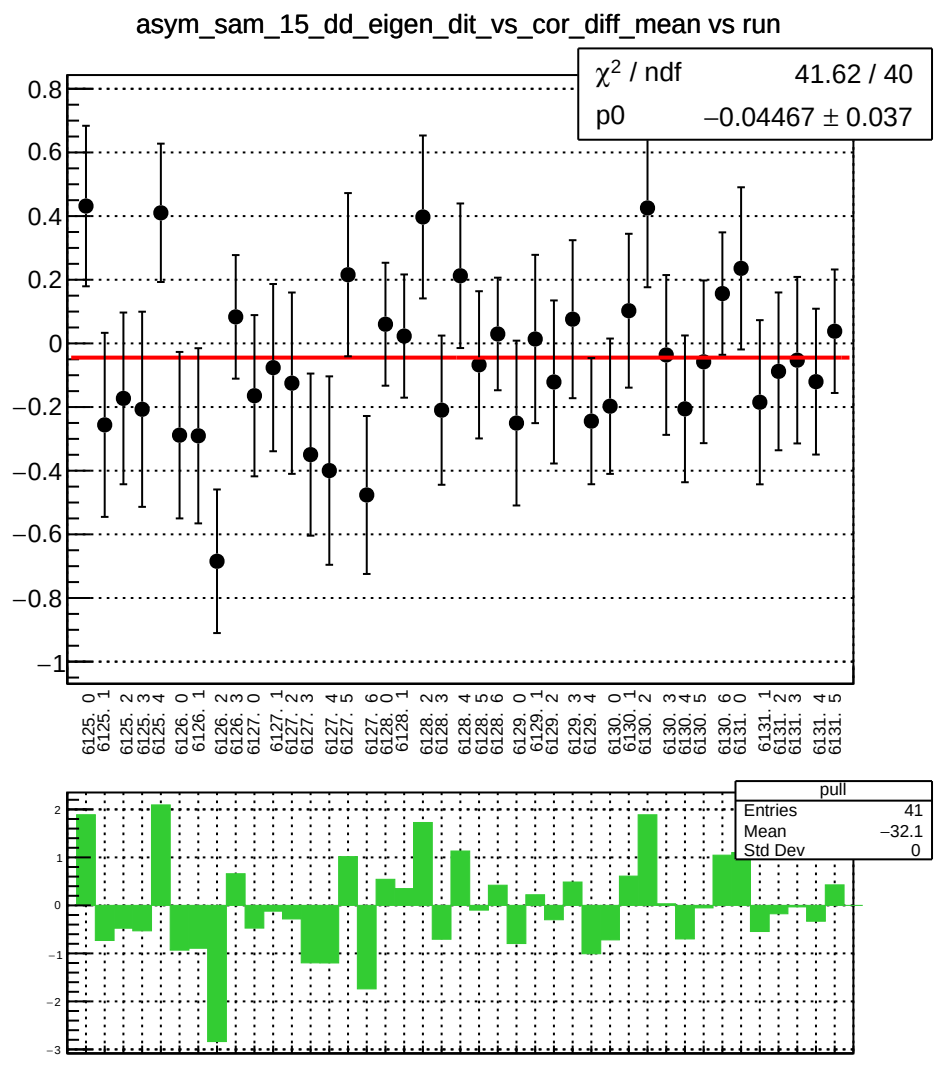

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.63 / 40
p0 −0.04468 ± 0.03701
pull
Entries 41
Mean −32.1
Std Dev 0
pull1D
Entries 41
Mean −0.02964
Std Dev 1.007

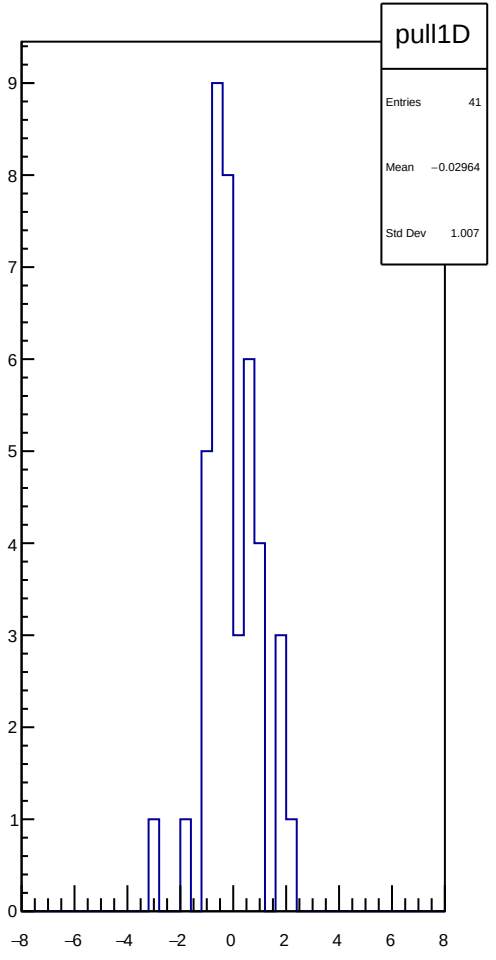

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7467 / 40
p0 23.36 ± 0.02617
30
28
26
24
22
20
18
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

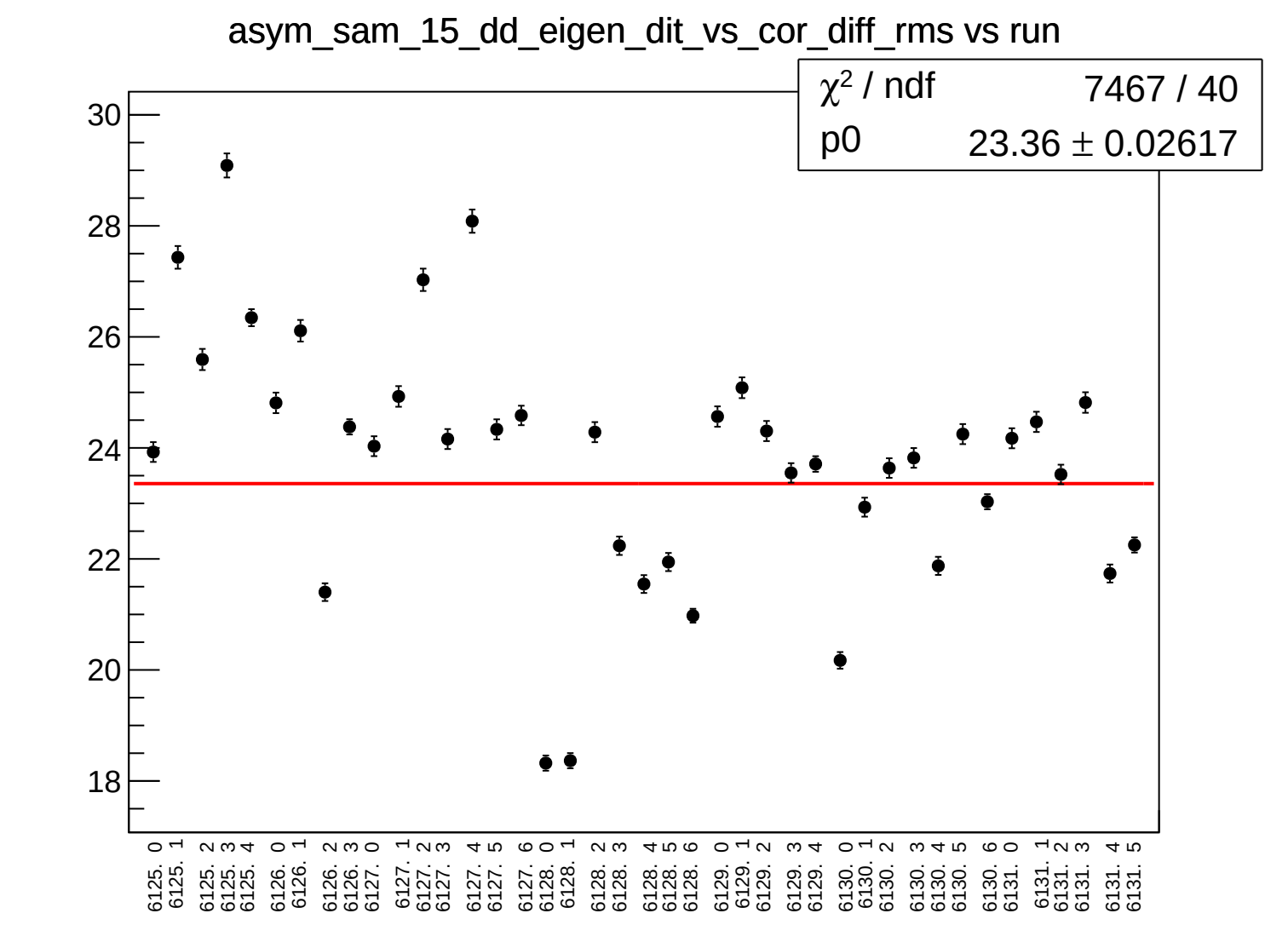

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 62.95 / 40
p0 1.773e−06 ± 2.92e−06
pull
Entries 41
Mean −71.52
Std Dev 0

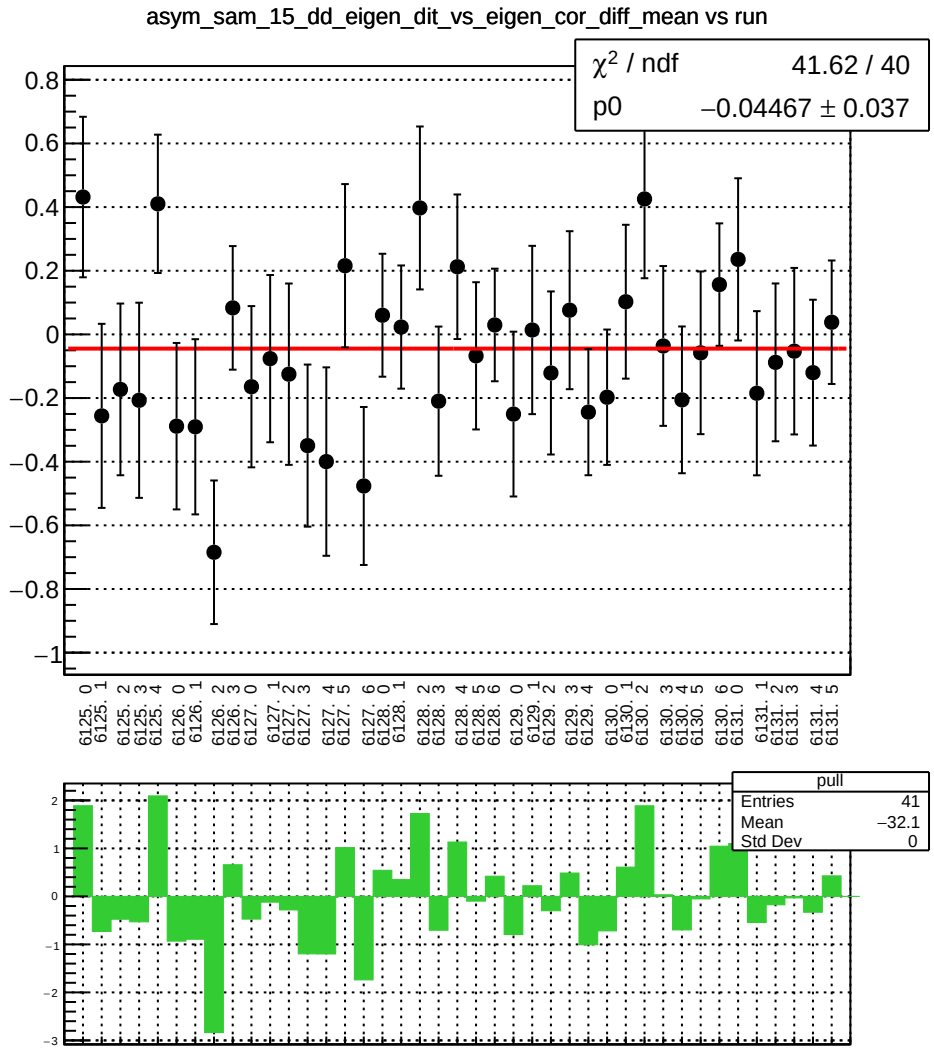

pull1D
Entries 41
Mean 0.03761
Std Dev 1.239

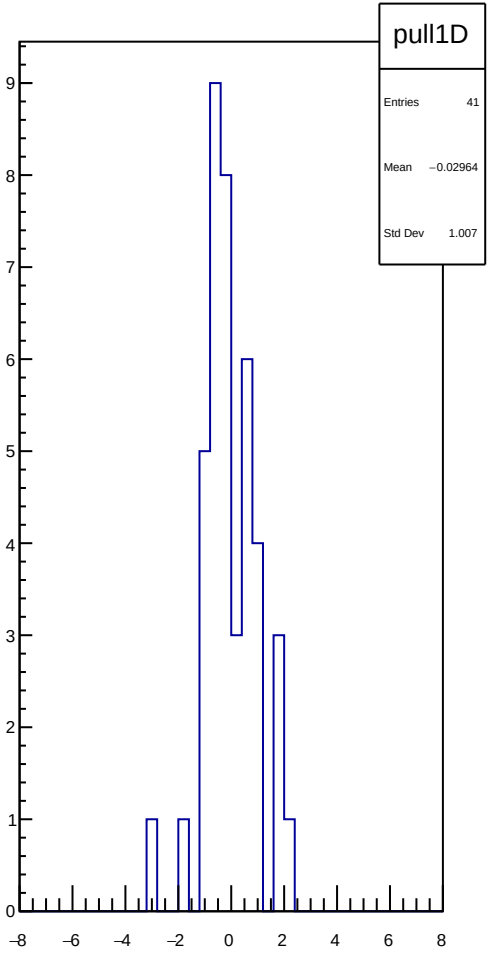

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 741 / 40
p0 0.001851 ± 2.065e−06
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

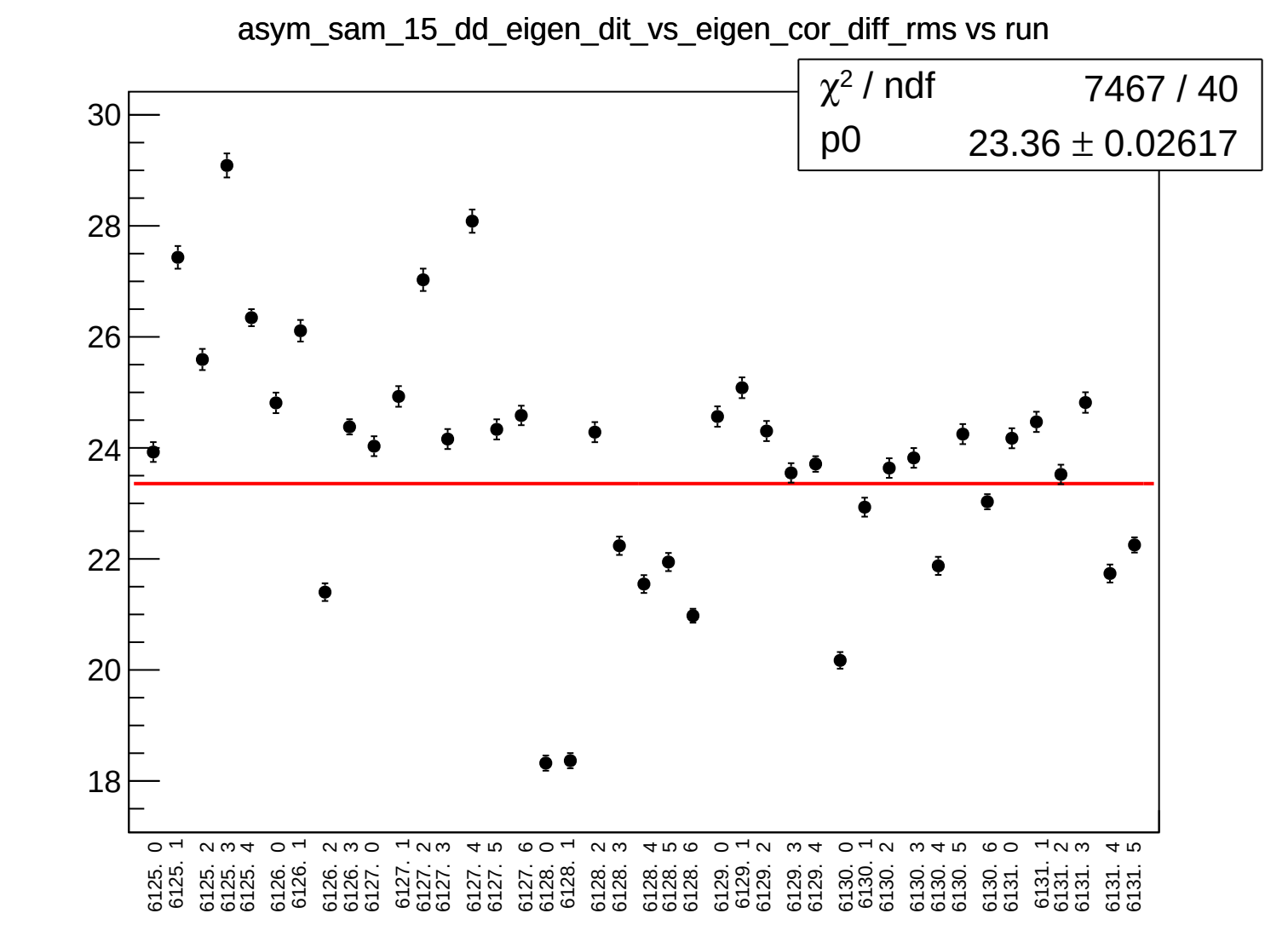

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 41.62 / 40
p0 −0.04467 ± 0.037
pull
Entries 41
Mean −32.1
Std Dev 0

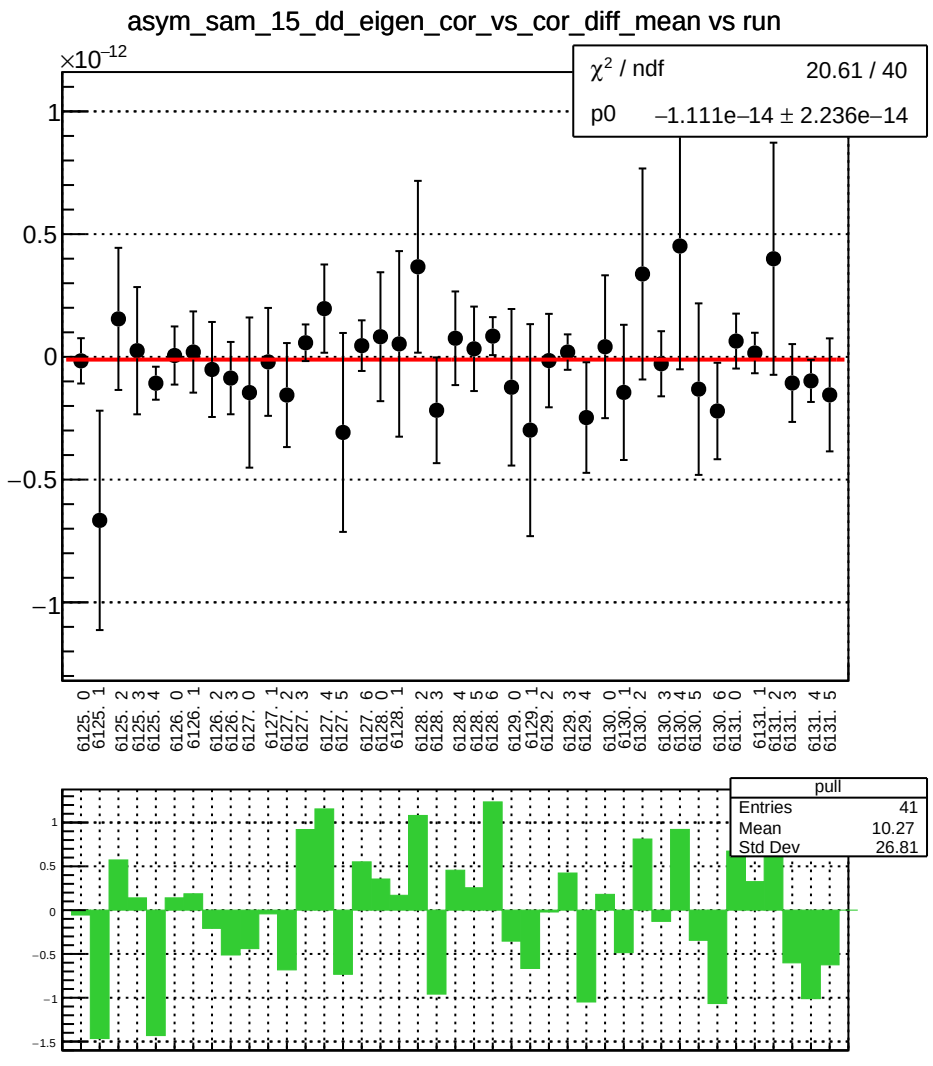

pull1D
Entries 41
Mean −0.02964
Std Dev 1.007

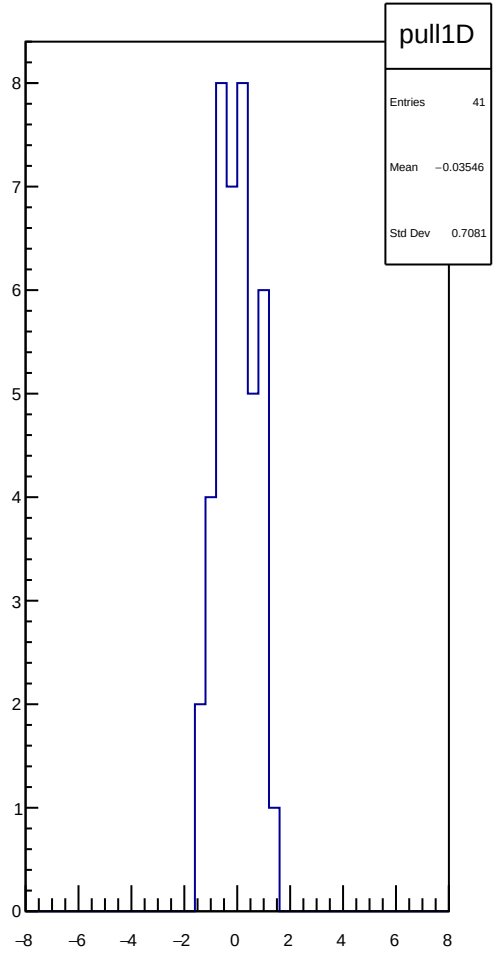

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7467 / 40
p0 23.36 ± 0.02617
30
28
26
24
22
20
18
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

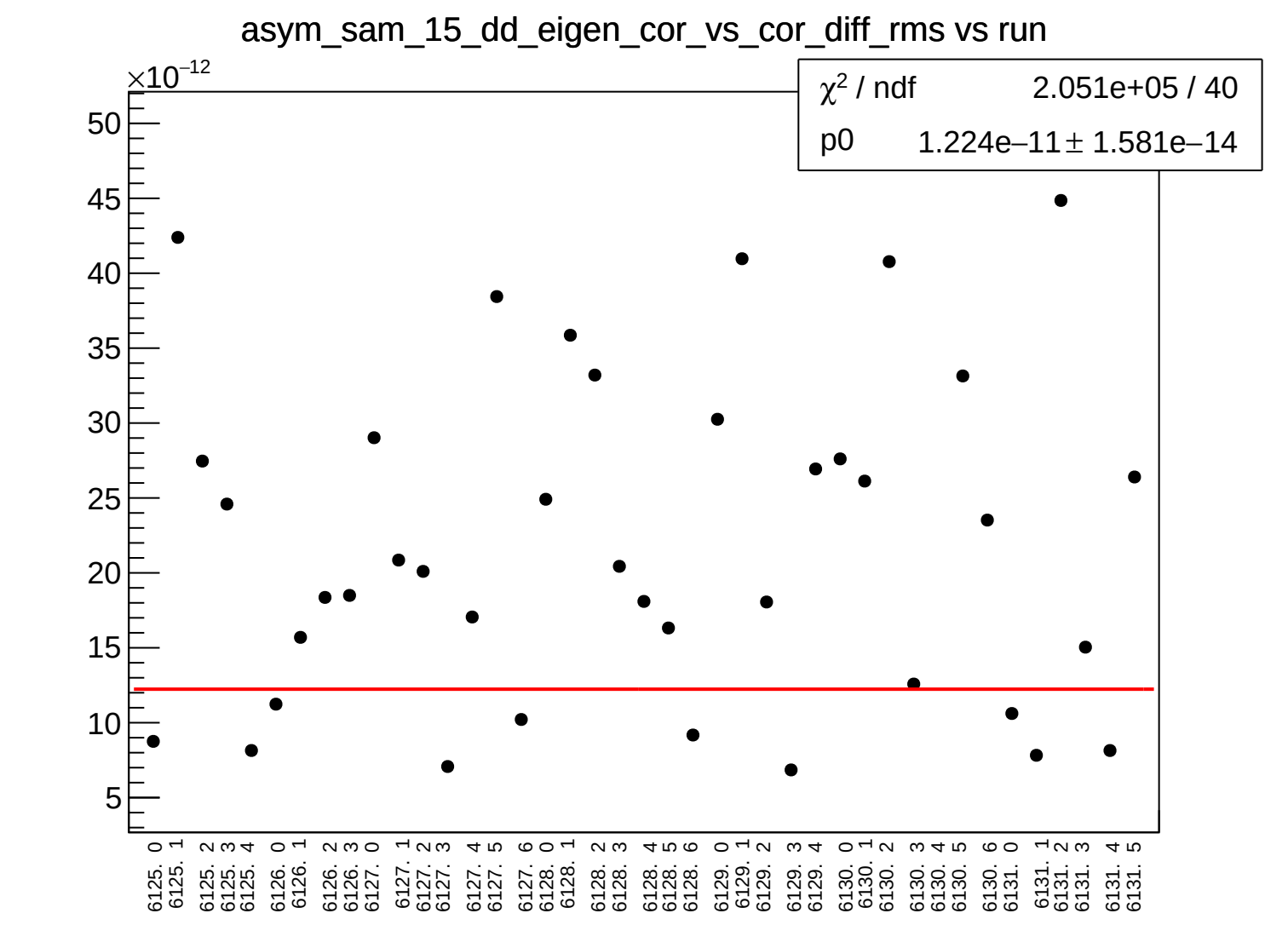

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.62 / 40
p0 −0.04467 ± 0.037
pull
Entries 41
Mean −32.1
Std Dev 0

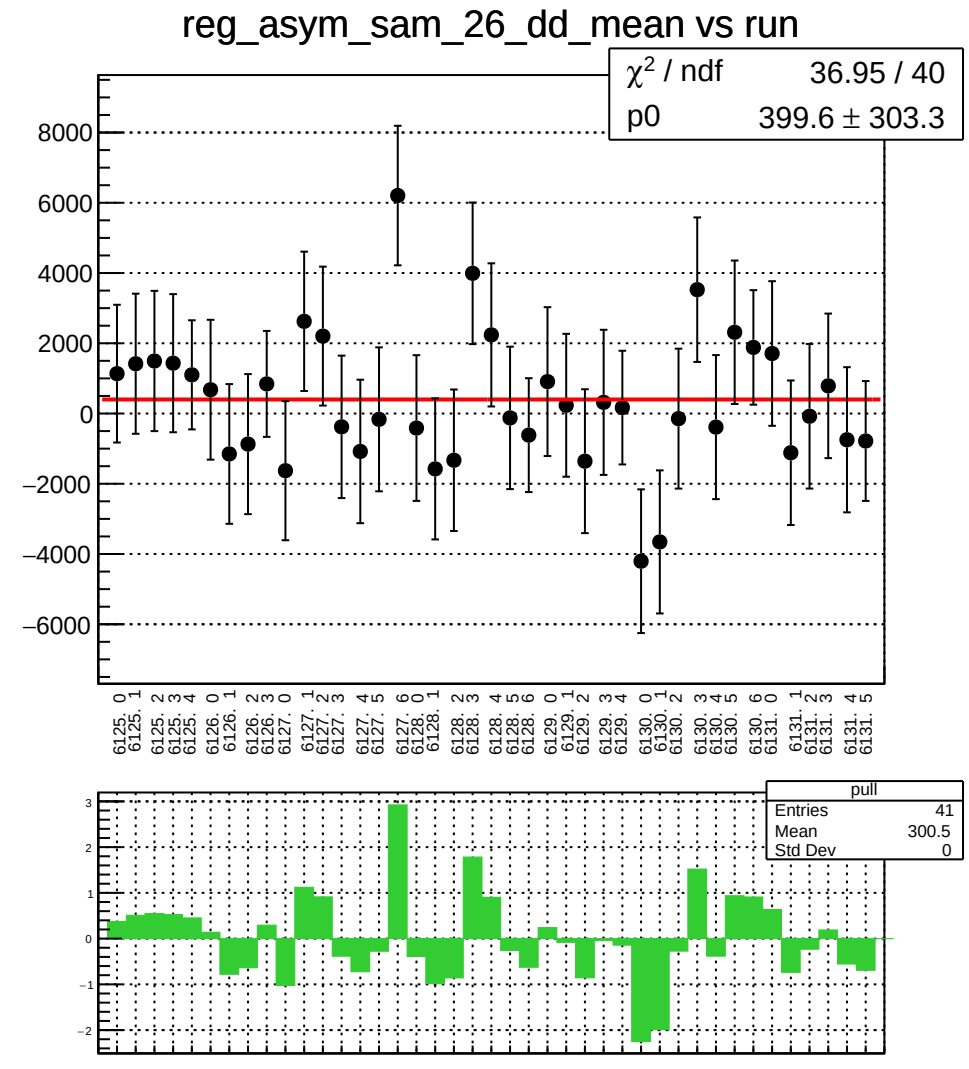

pull1D
Entries 41
Mean −0.02964
Std Dev 1.007

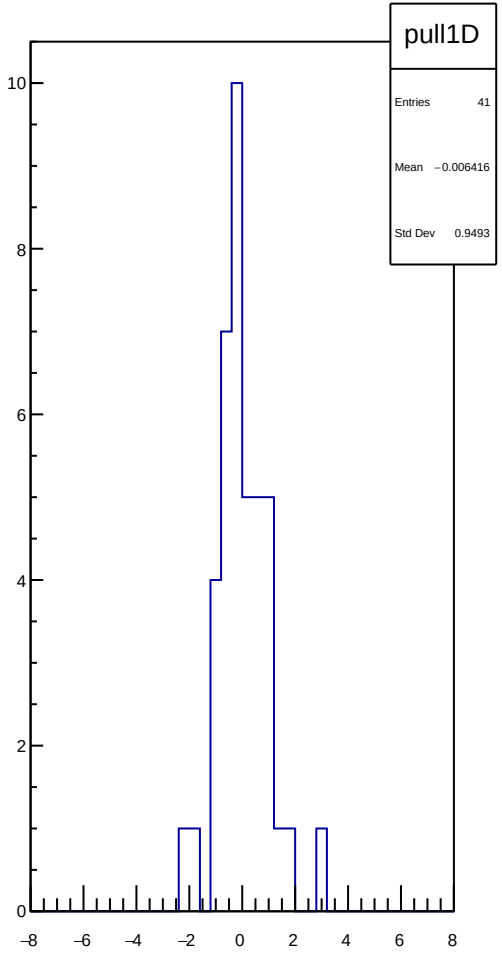

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7467 / 40
p0 23.36 ± 0.02617
30
28
26
24
22
20
18
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

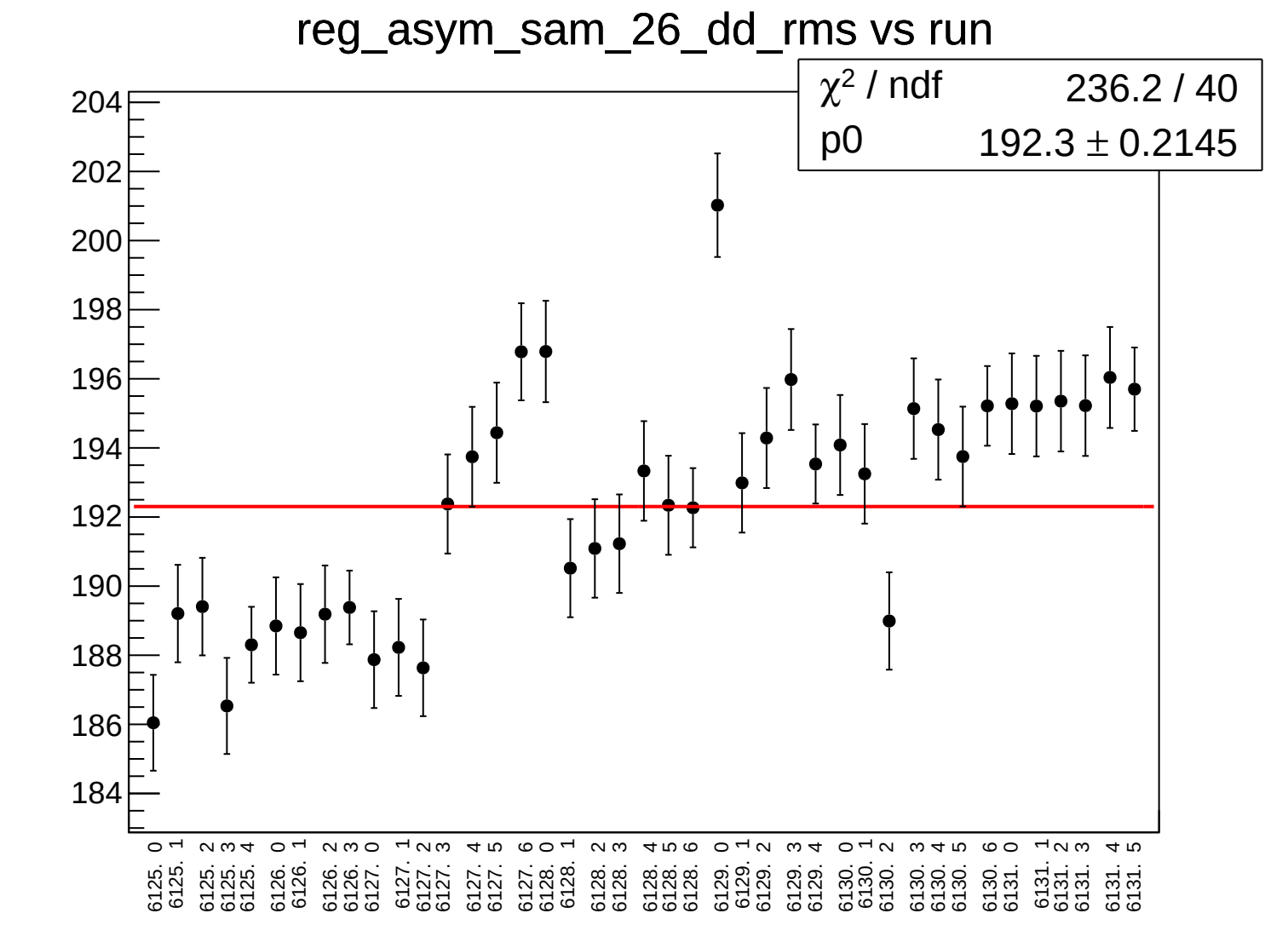

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 20.61 / 40
p0 −1.111e−14 ± 2.236e−14
pull
Entries 41
Mean 10.27
Std Dev 26.81

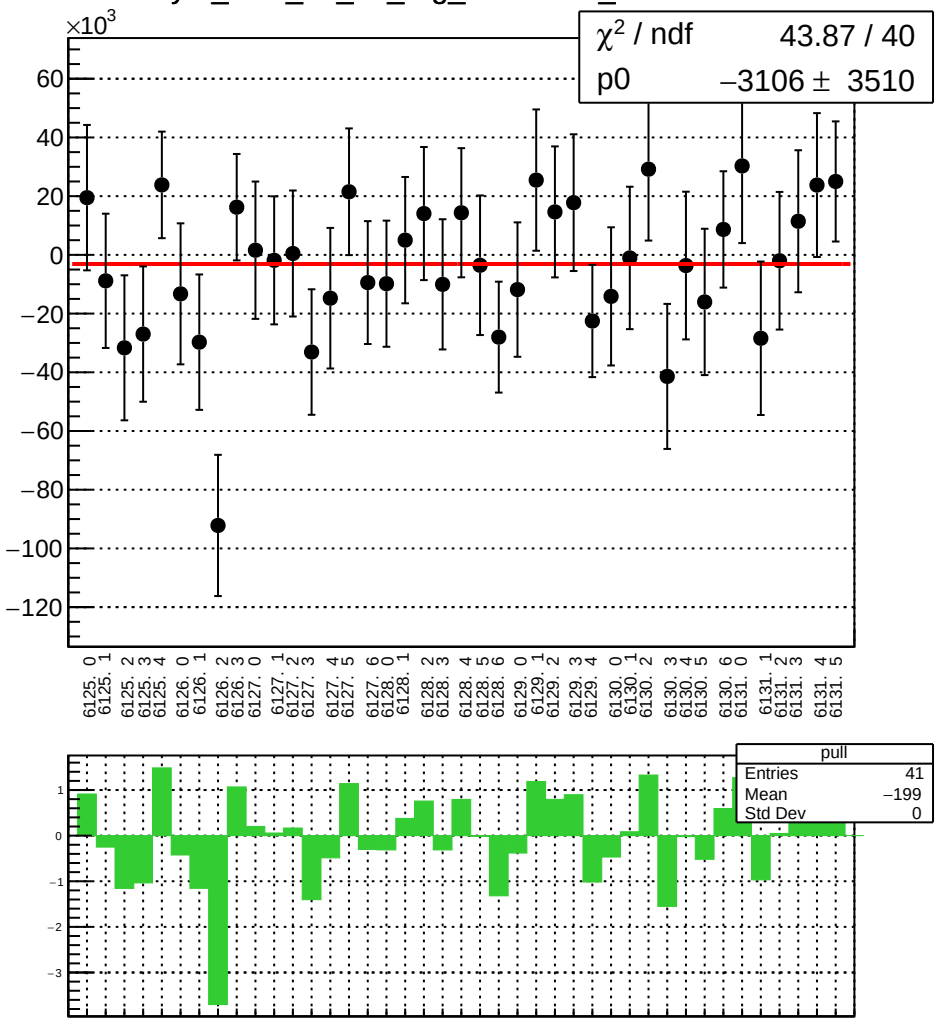

pull1D
Entries 41
Mean −0.03546
Std Dev 0.7081

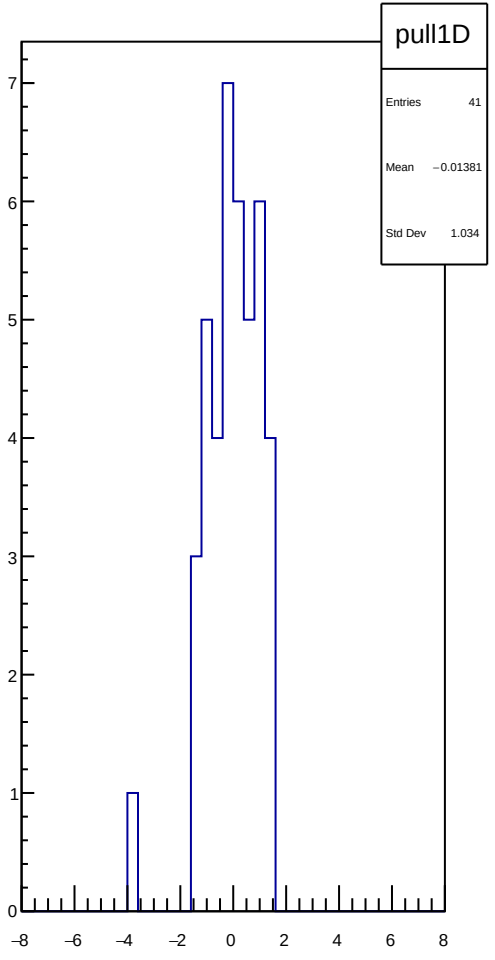

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.051e+05 / 40
p0 1.224e−11 ± 1.581e−14
50
45
40
35
30
25
20
15
10
5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

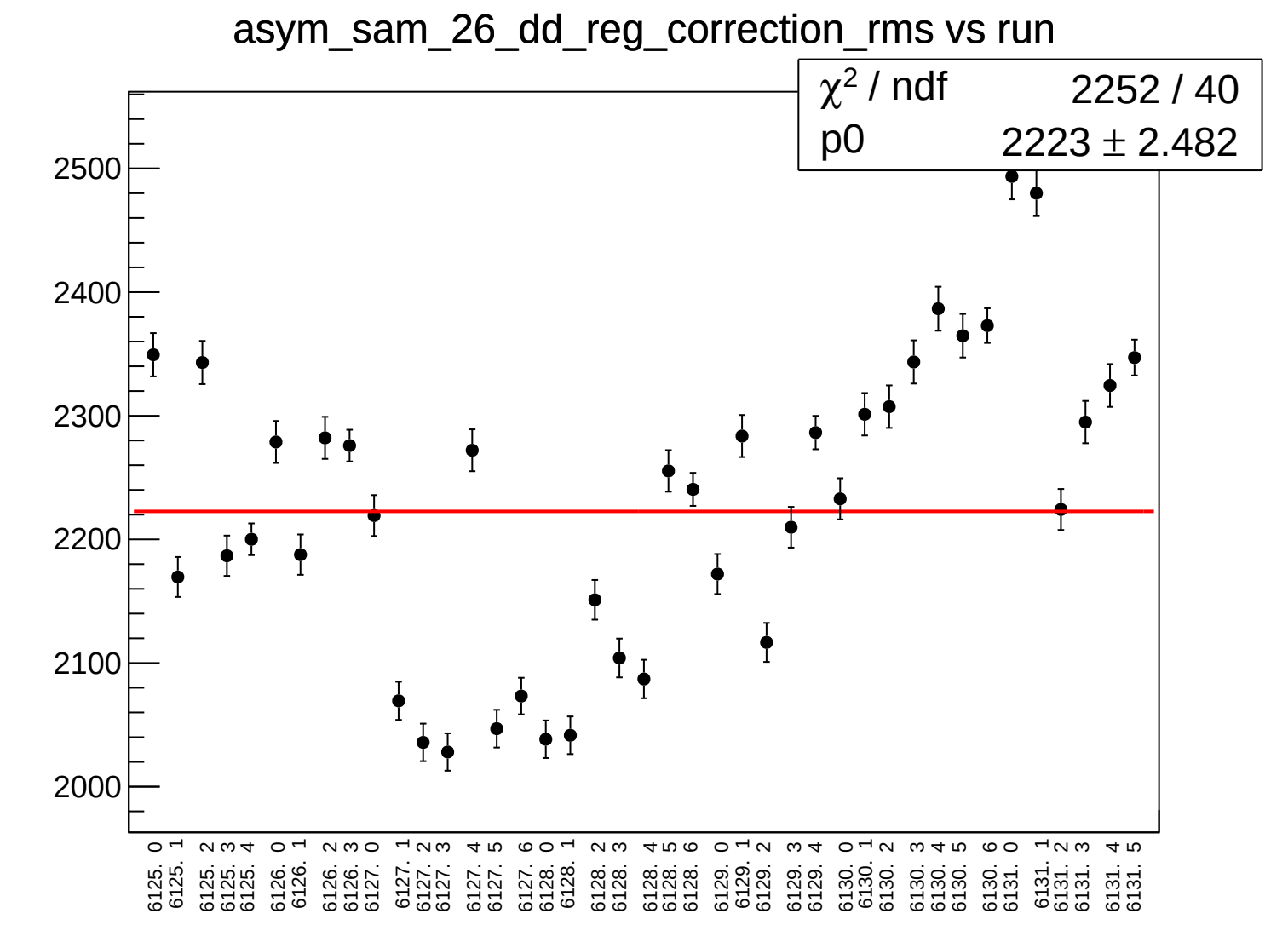

reg_asym_sam_26_dd_mean vs run
χ² / ndf 36.95 / 40
p0 399.6 ± 303.3
8000
6000
4000
2000
0
−2000
−4000
−6000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 300.5
Std Dev 0
3
2
1
0
−1
−2

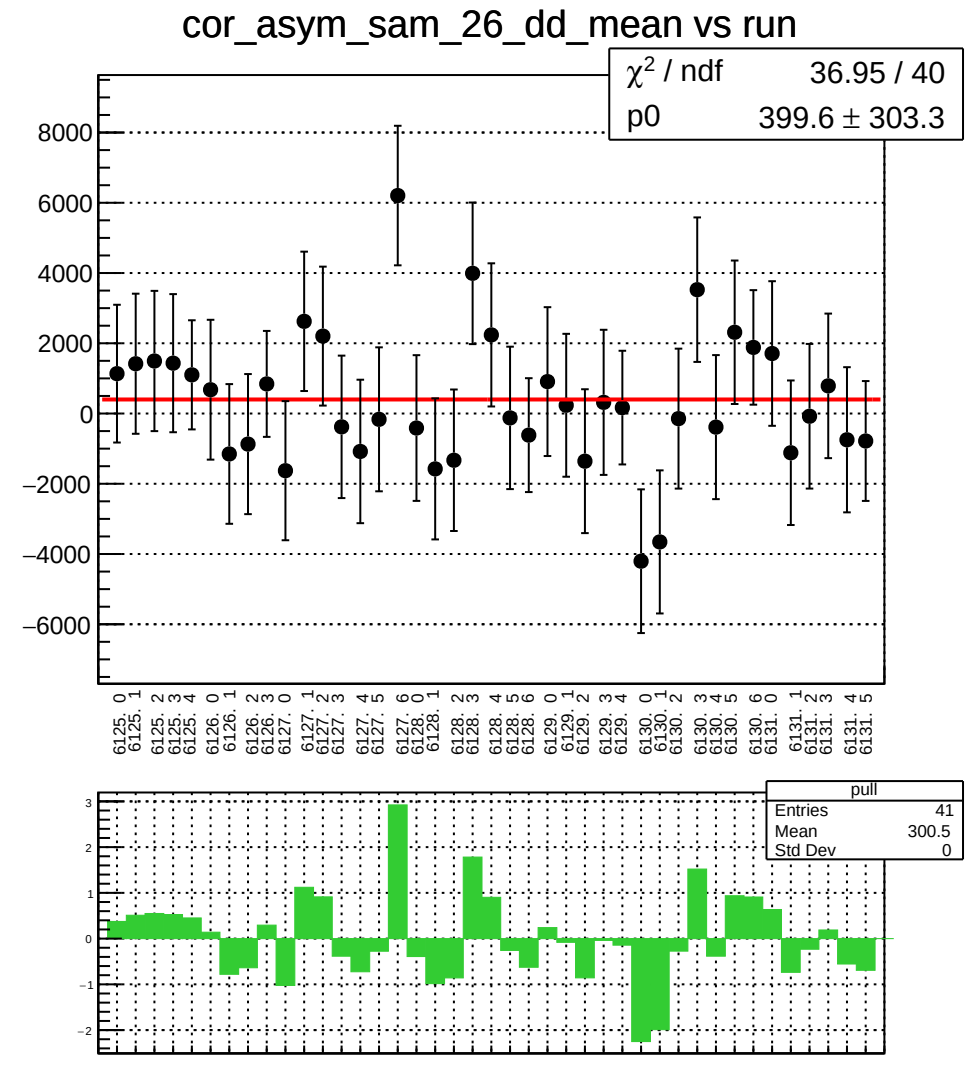

pull1D
Entries 41
Mean −0.006416
Std Dev 0.9493
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

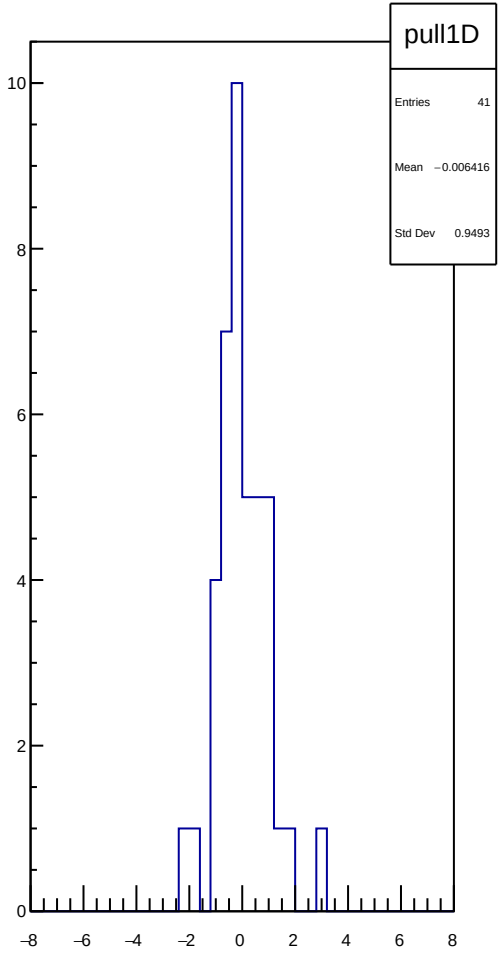

reg_asym_sam_26_dd_rms vs run
χ² / ndf 236.2 / 40
p0 192.3 ± 0.2145
204
202
200
198
196
194
192
190
188
186
184
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

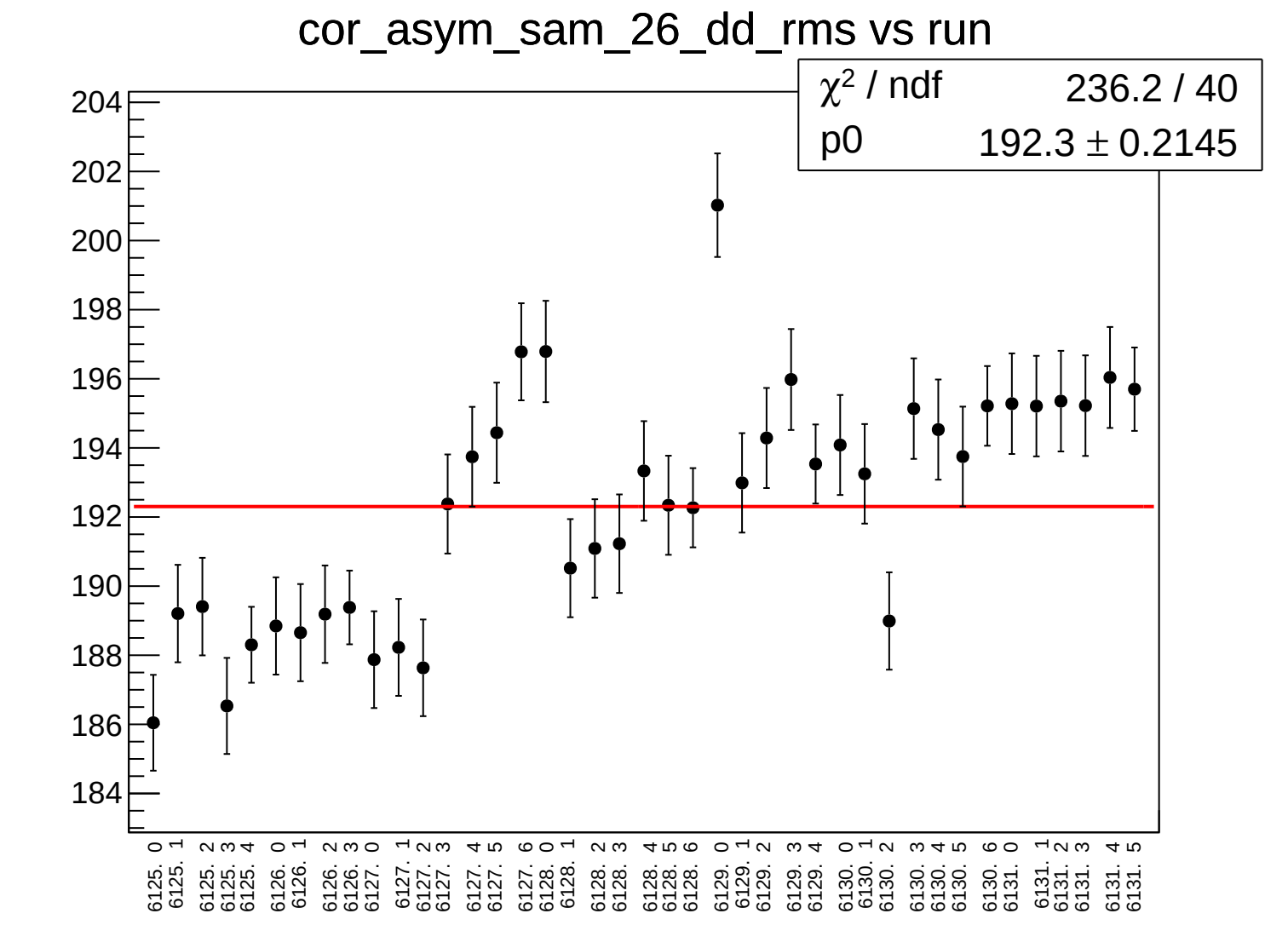

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ² / ndf 43.87 / 40
p0 −3106 ± 3510
pull
Entries 41
Mean −199
Std Dev 0

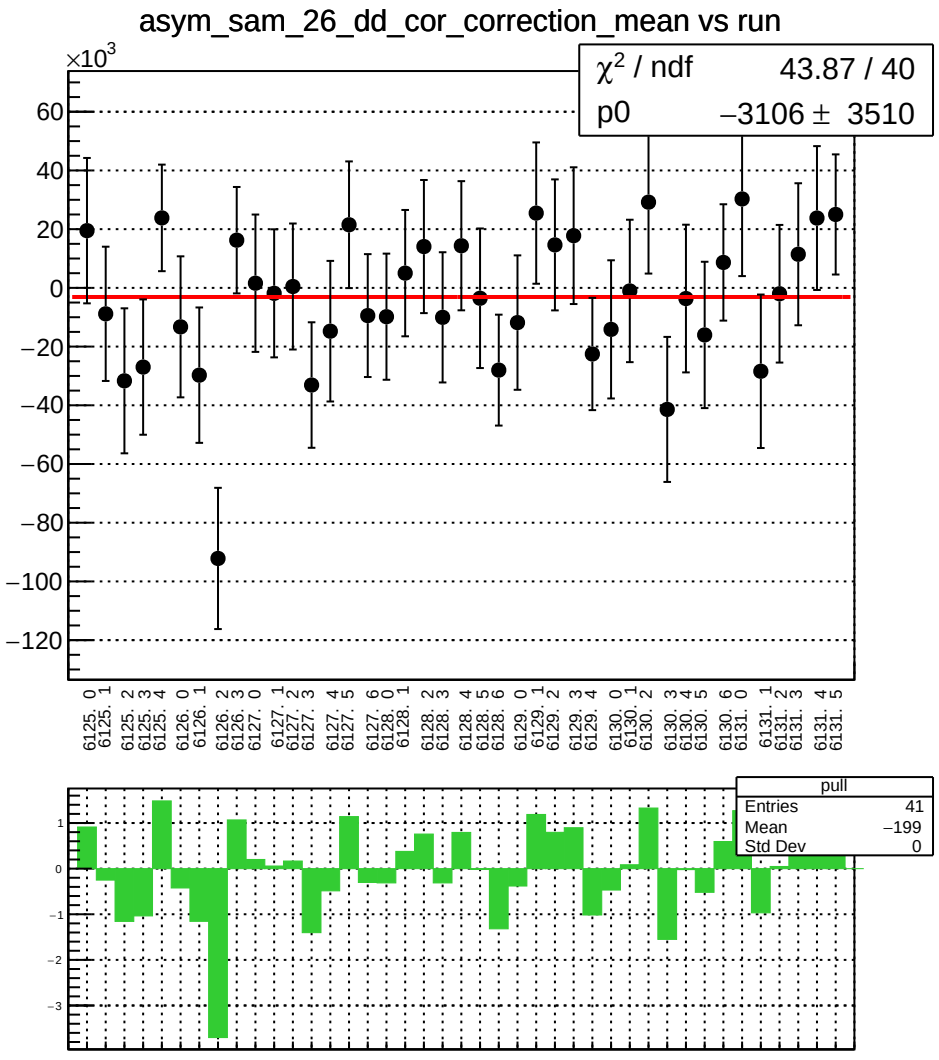

pull1D
Entries 41
Mean −0.01381
Std Dev 1.034

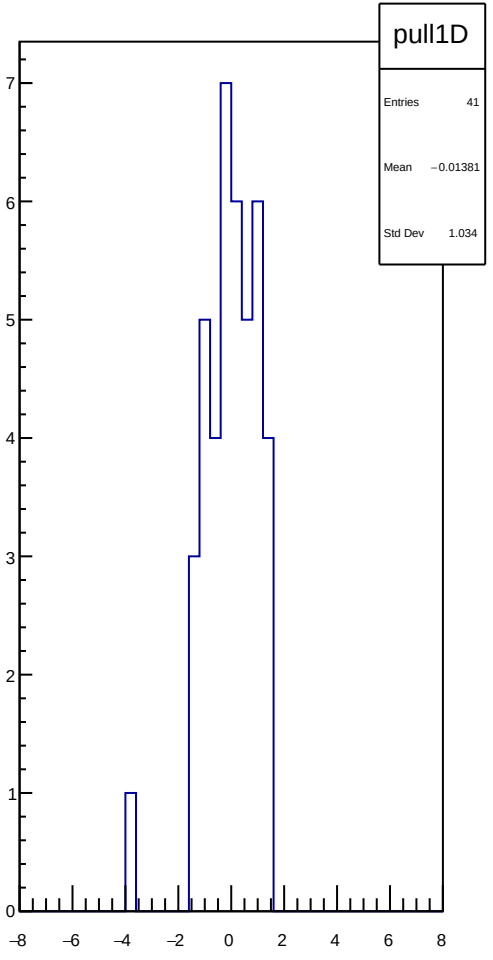

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 2252 / 40
p0 2223 ± 2.482
2500
2400
2300
2200
2100
2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

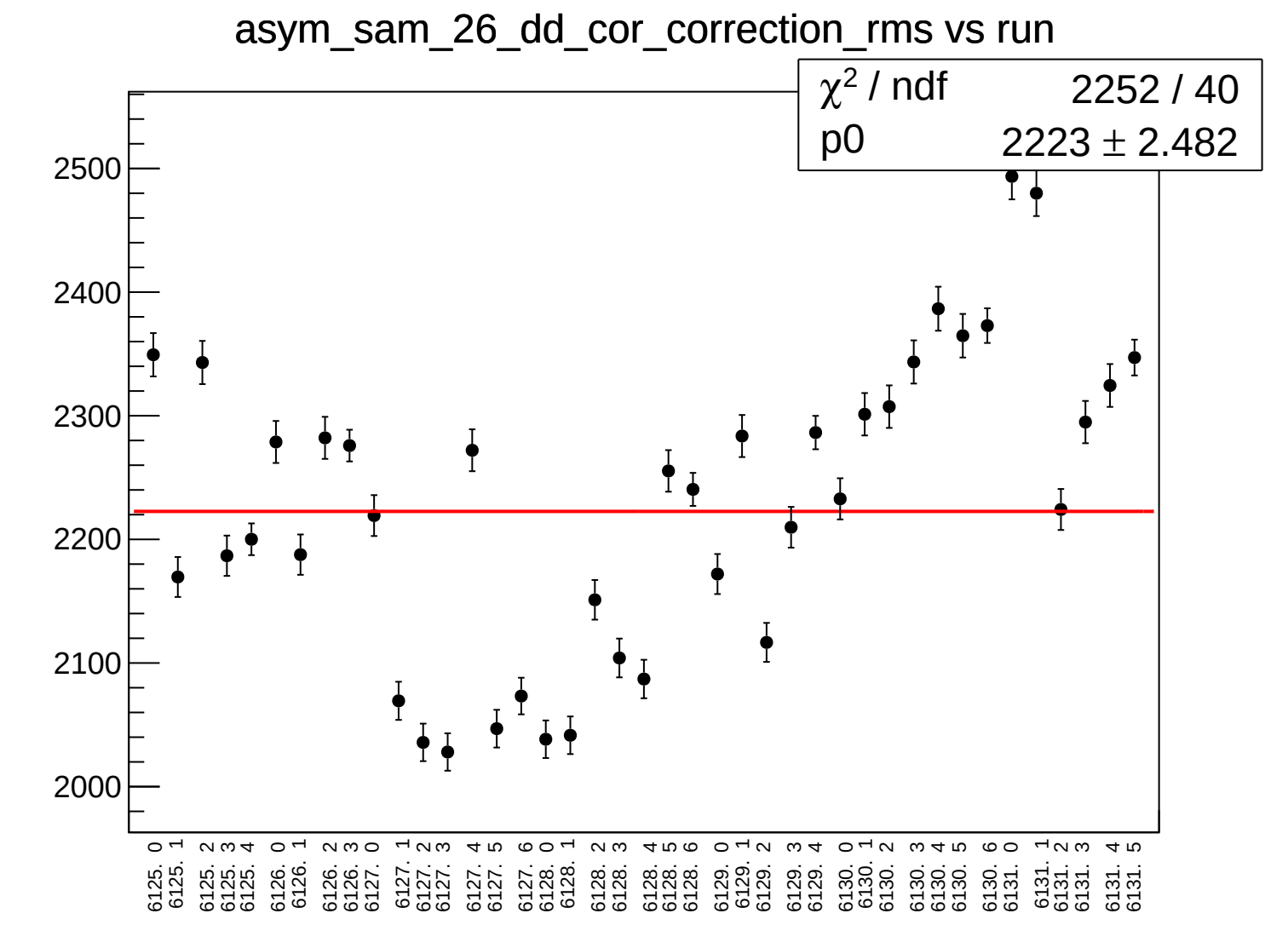

cor_asym_sam_26_dd_mean vs run
χ² / ndf 36.95 / 40
p0 399.6 ± 303.3
8000
6000
4000
2000
0
−2000
−4000
−6000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 300.5
Std Dev 0
3
2
1
0
−1
−2

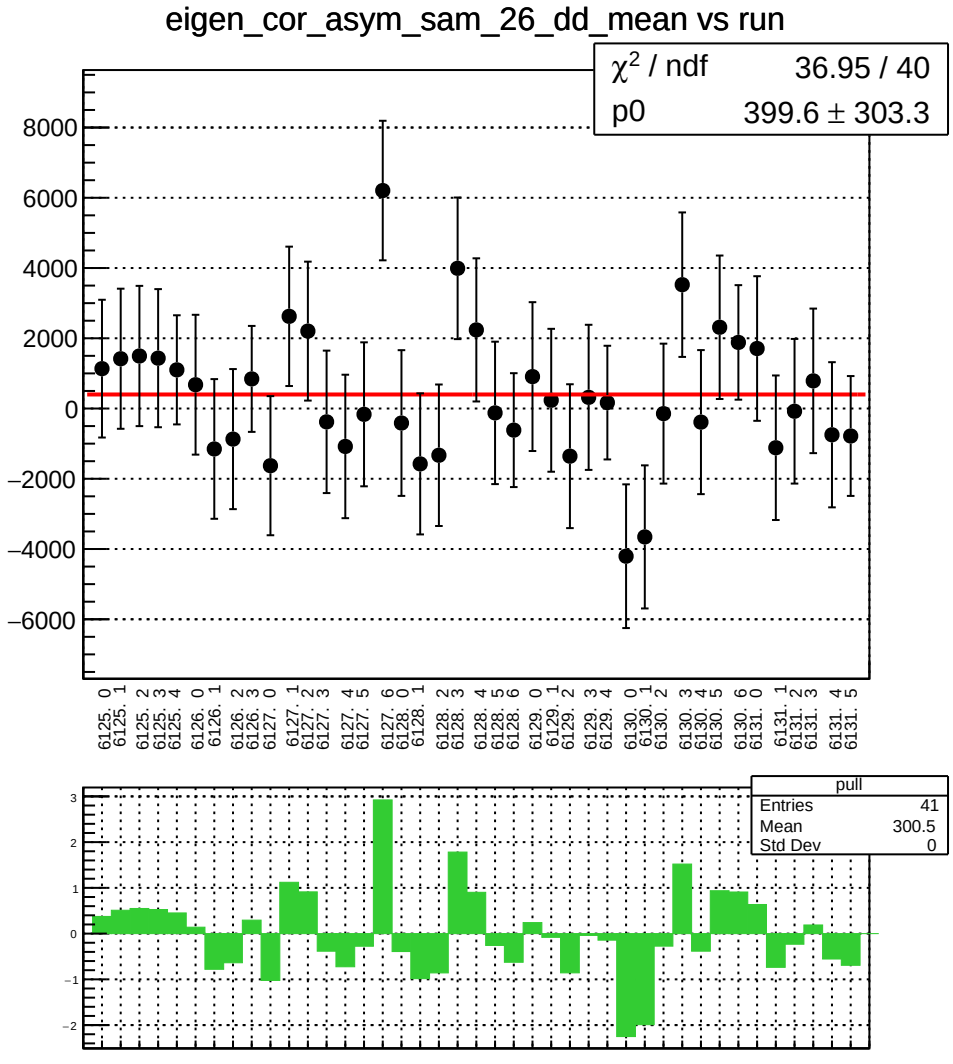

pull1D
Entries 41
Mean −0.006416
Std Dev 0.9493
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

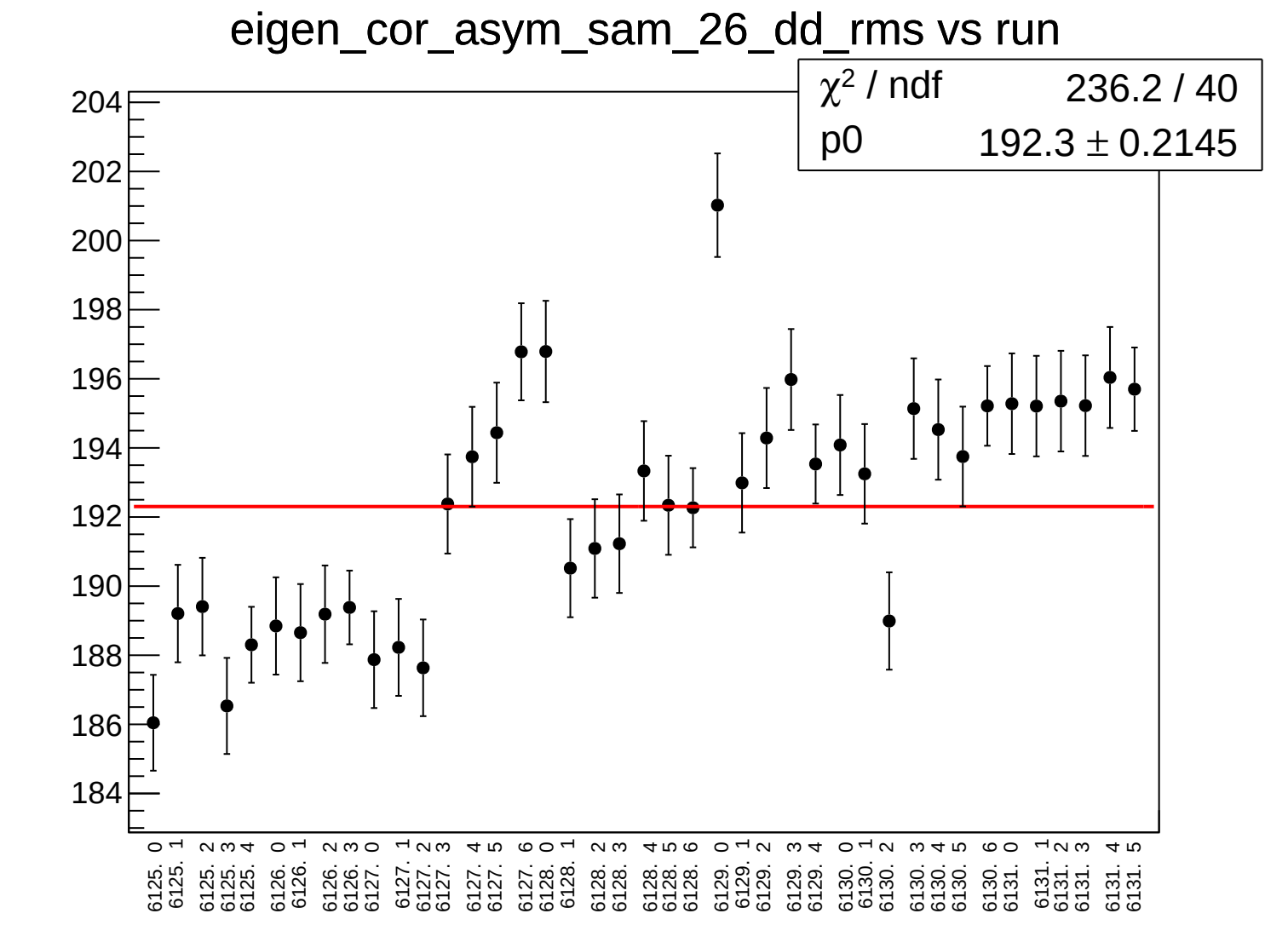

cor_asym_sam_26_dd_rms vs run
χ² / ndf 236.2 / 40
p0 192.3 ± 0.2145
204
202
200
198
196
194
192
190
188
186
184
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

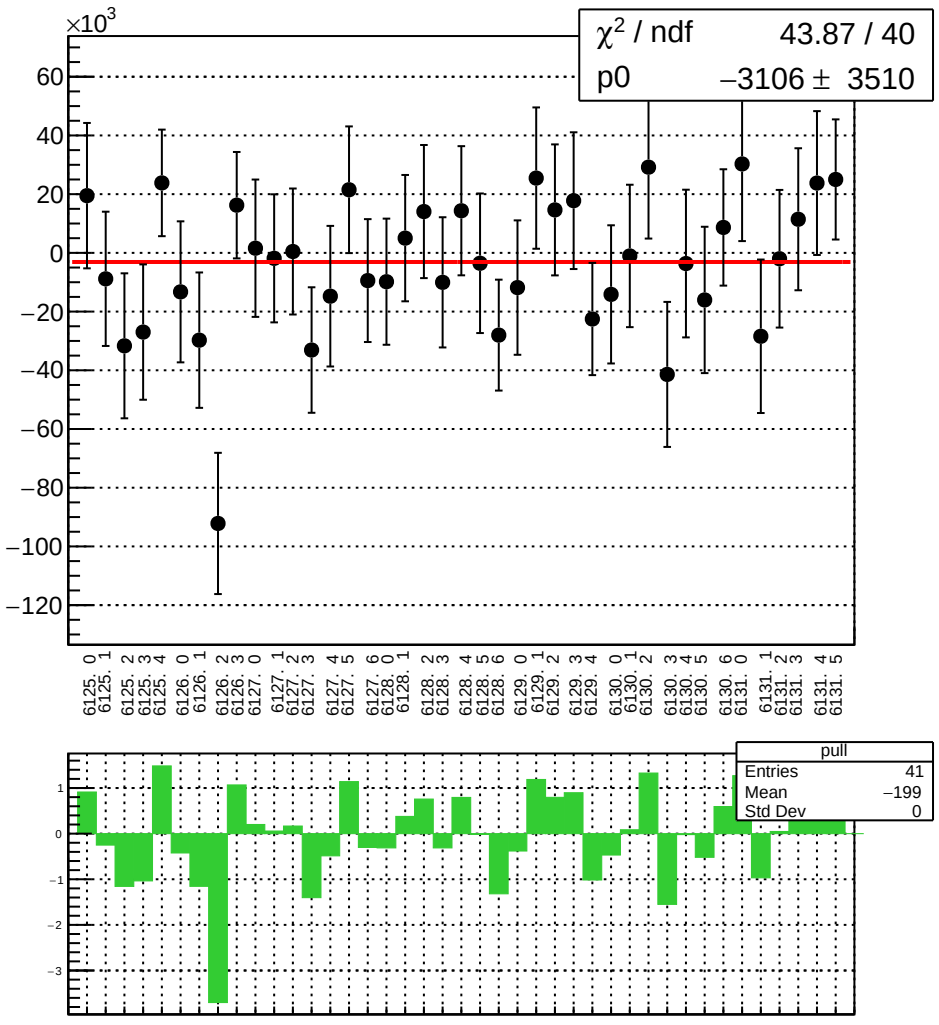

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 43.87 / 40
p0 −3106 ± 3510
pull
Entries 41
Mean −199
Std Dev 0

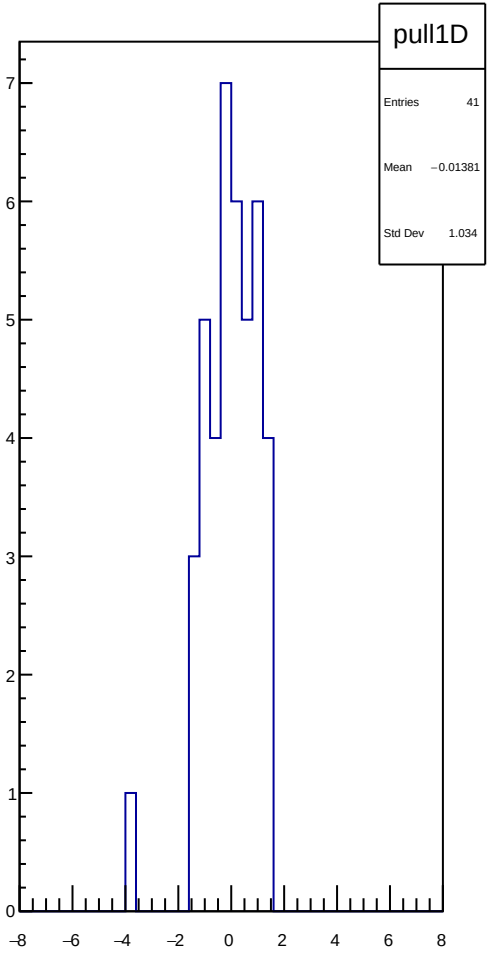

pull1D
Entries 41
Mean −0.01381
Std Dev 1.034

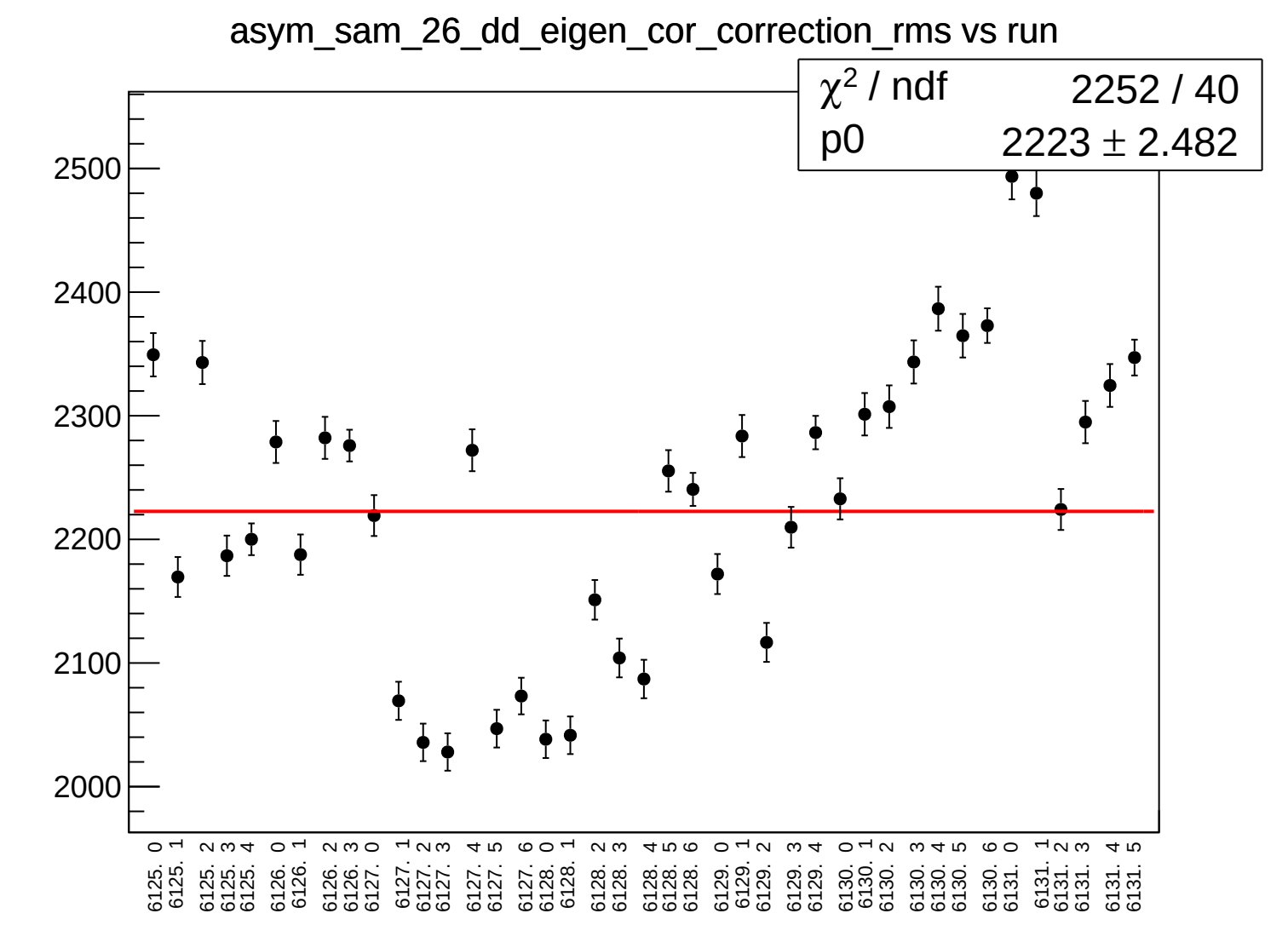

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 2252 / 40
p0 2223 ± 2.482
2500
2400
2300
2200
2100
2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

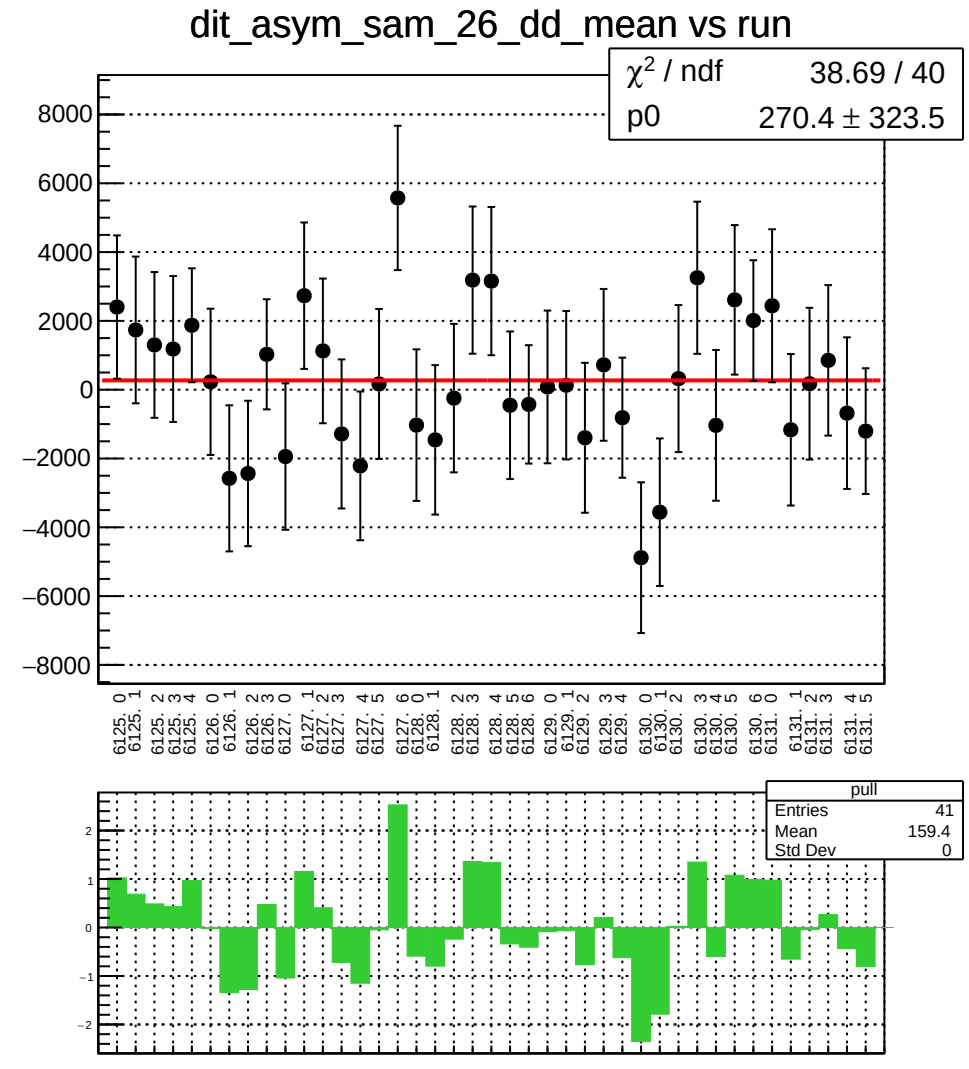

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 36.95 / 40
p0 399.6 ± 303.3
8000
6000
4000
2000
0
−2000
−4000
−6000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 300.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.006416
Std Dev 0.9493
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

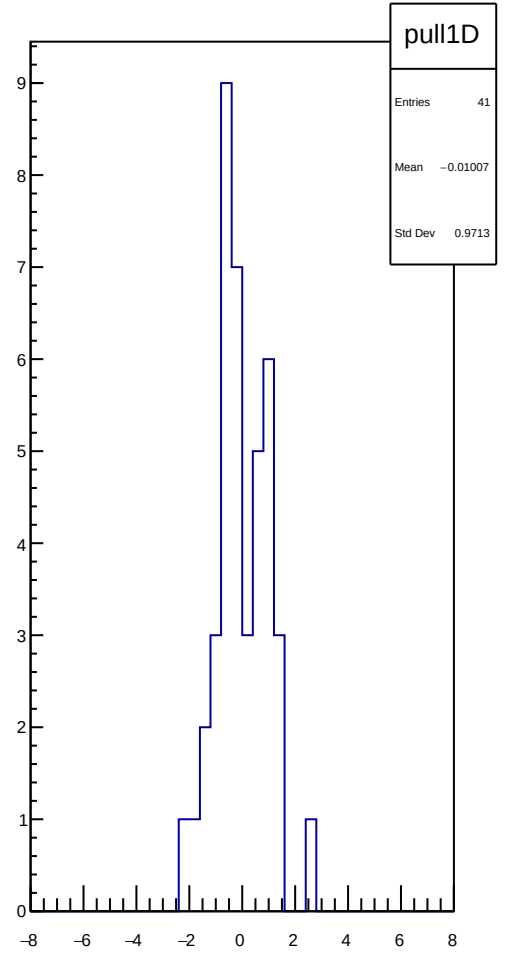

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 236.2 / 40
p0 192.3 ± 0.2145
204
202
200
198
196
194
192
190
188
186
184
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

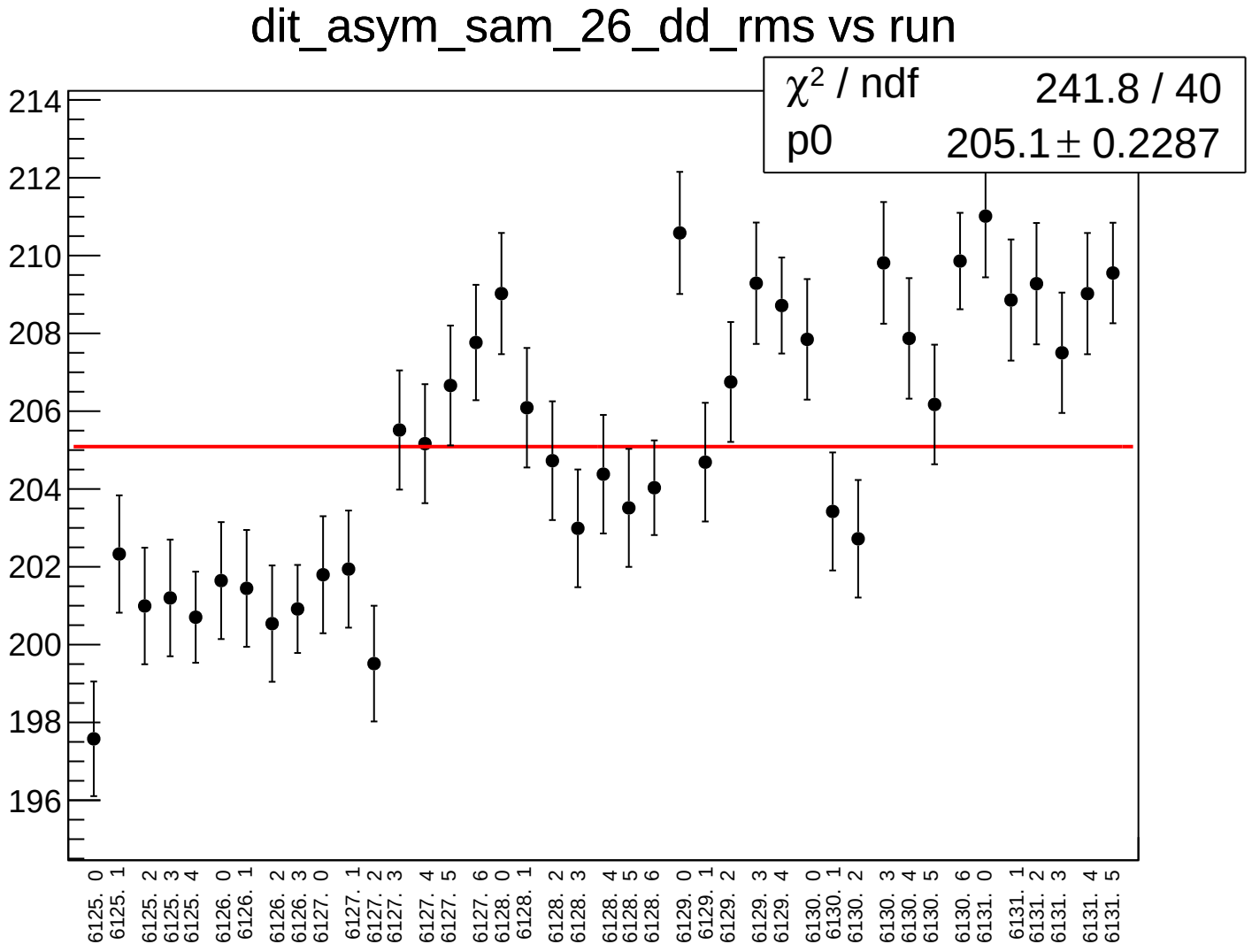

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 43.87 / 40
p0 −3106 ± 3510
pull
Entries 41
Mean −199
Std Dev 0

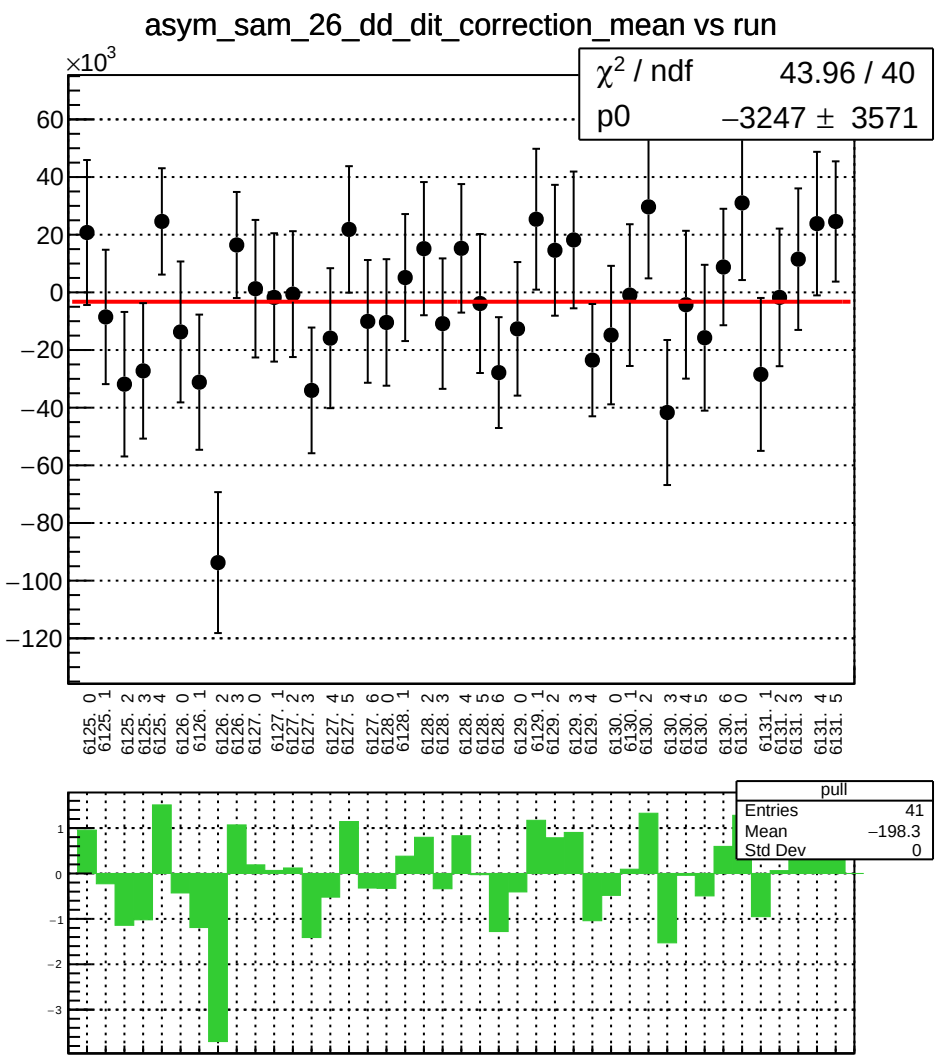

pull1D
Entries 41
Mean −0.01381
Std Dev 1.034

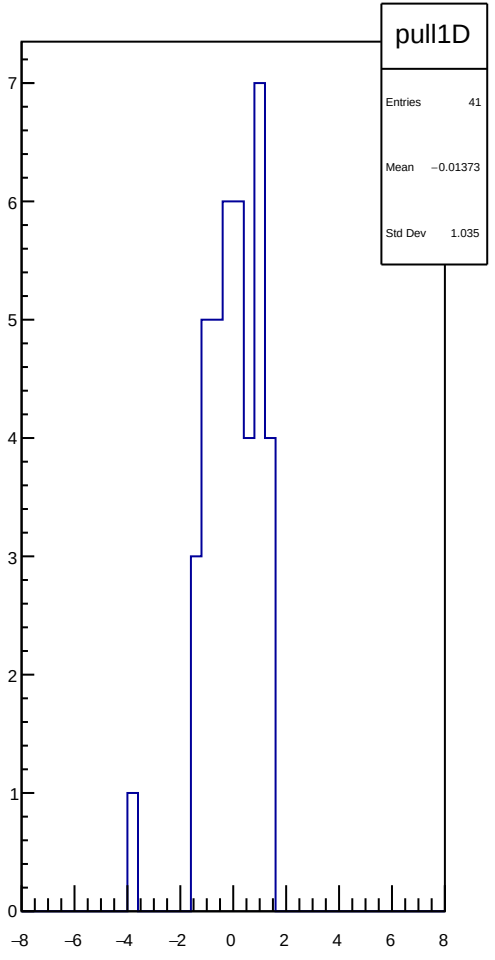

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2252 / 40
p0 2223 ± 2.482
2500
2400
2300
2200
2100
2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

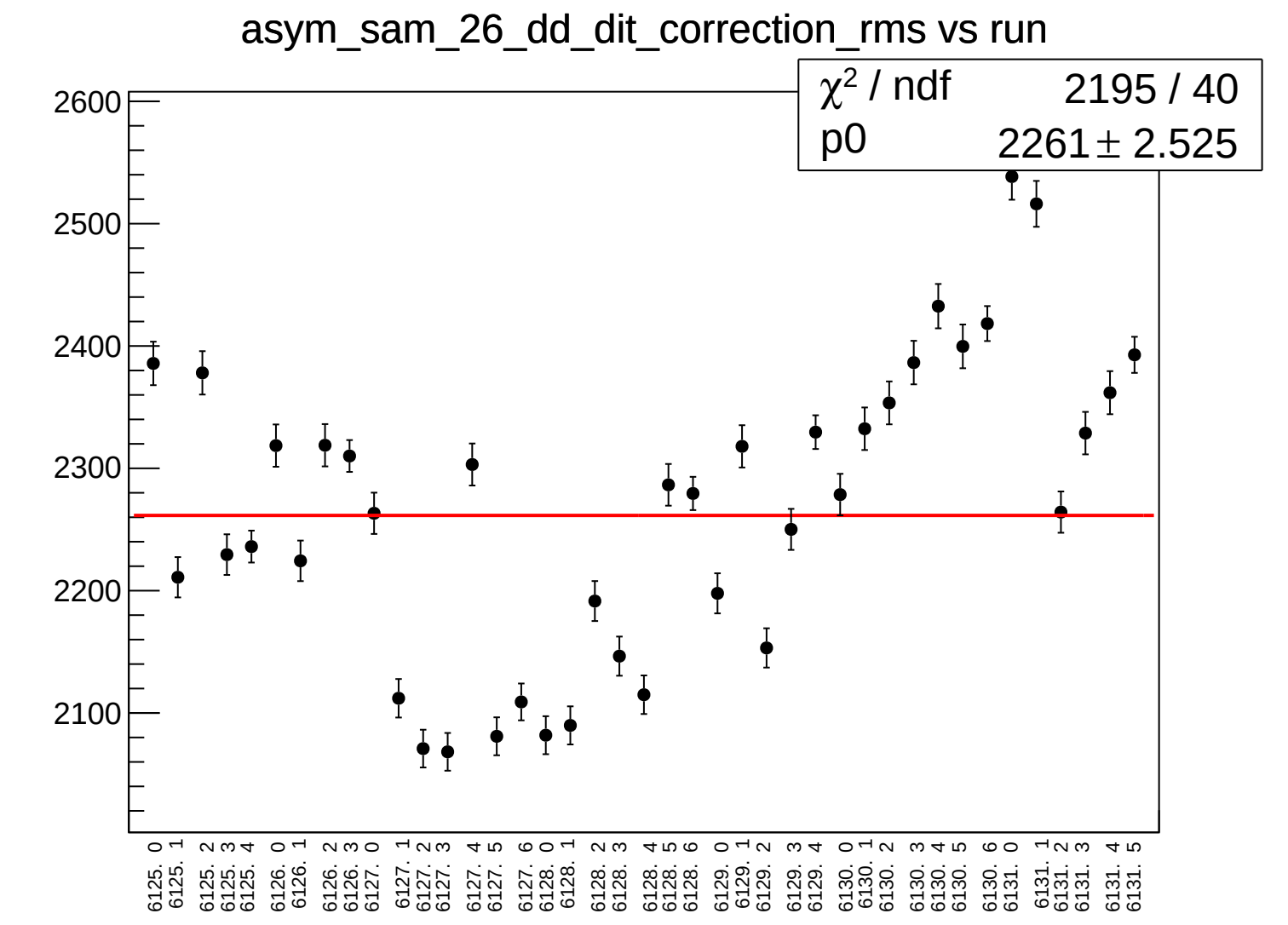

dit_asym_sam_26_dd_mean vs run
χ² / ndf 38.69 / 40
p0 270.4 ± 323.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 159.4
Std Dev 0
2
1
0
−1
−2

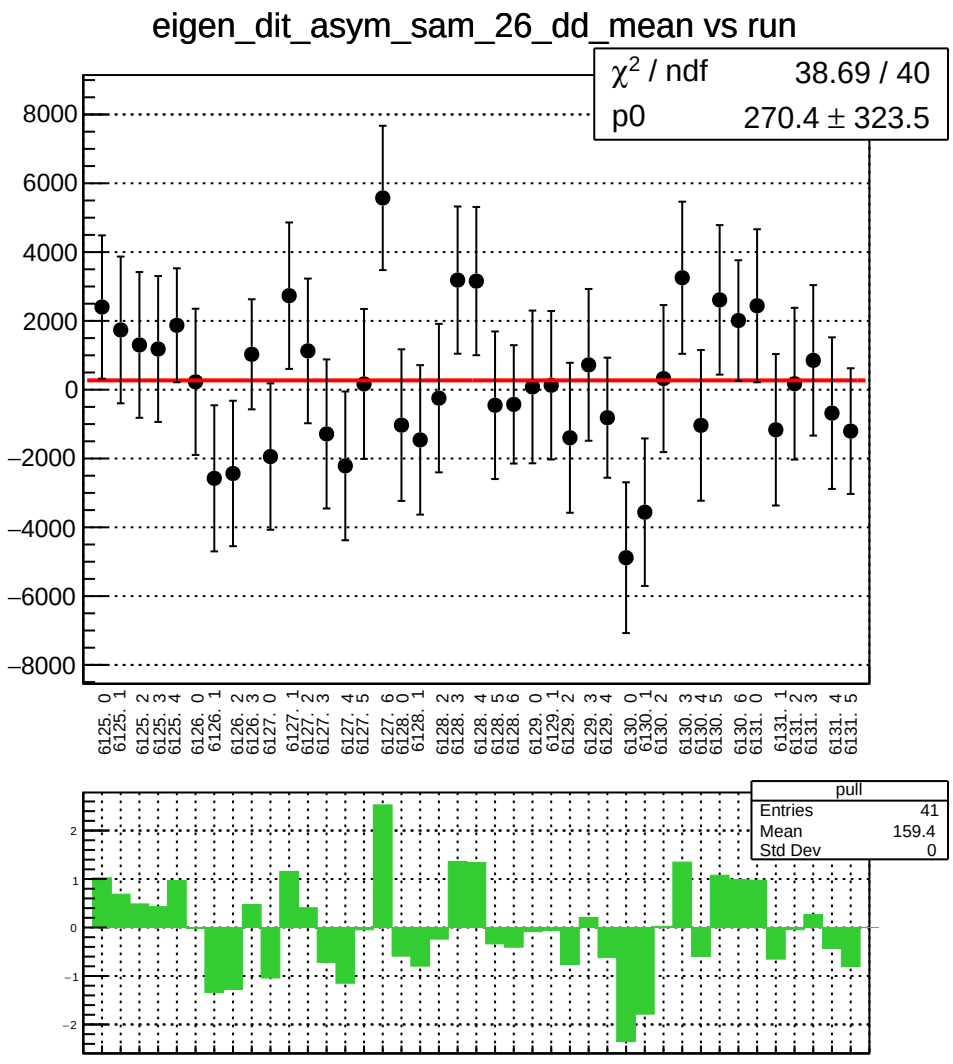

pull1D
Entries 41
Mean −0.01007
Std Dev 0.9713
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

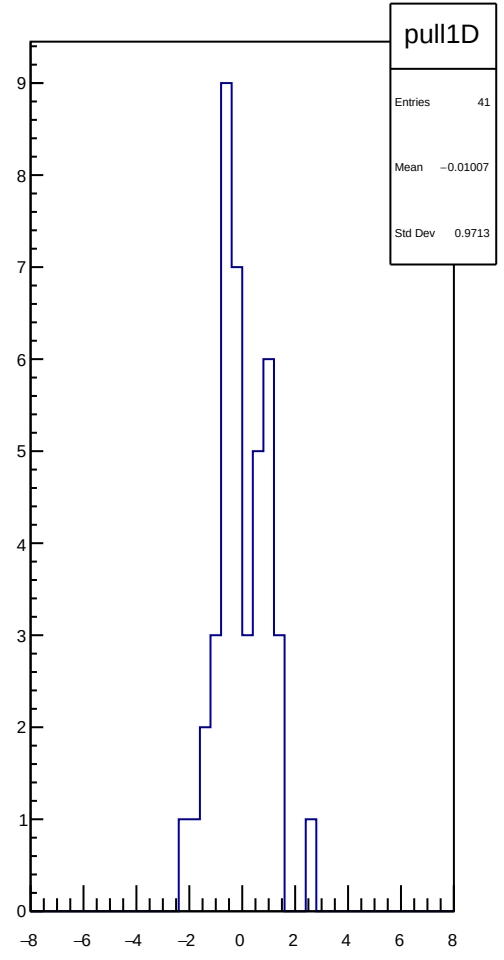

dit_asym_sam_26_dd_rms vs run
χ² / ndf 241.8 / 40
p0 205.1 ± 0.2287
214
212
210
208
206
204
202
200
198
196
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

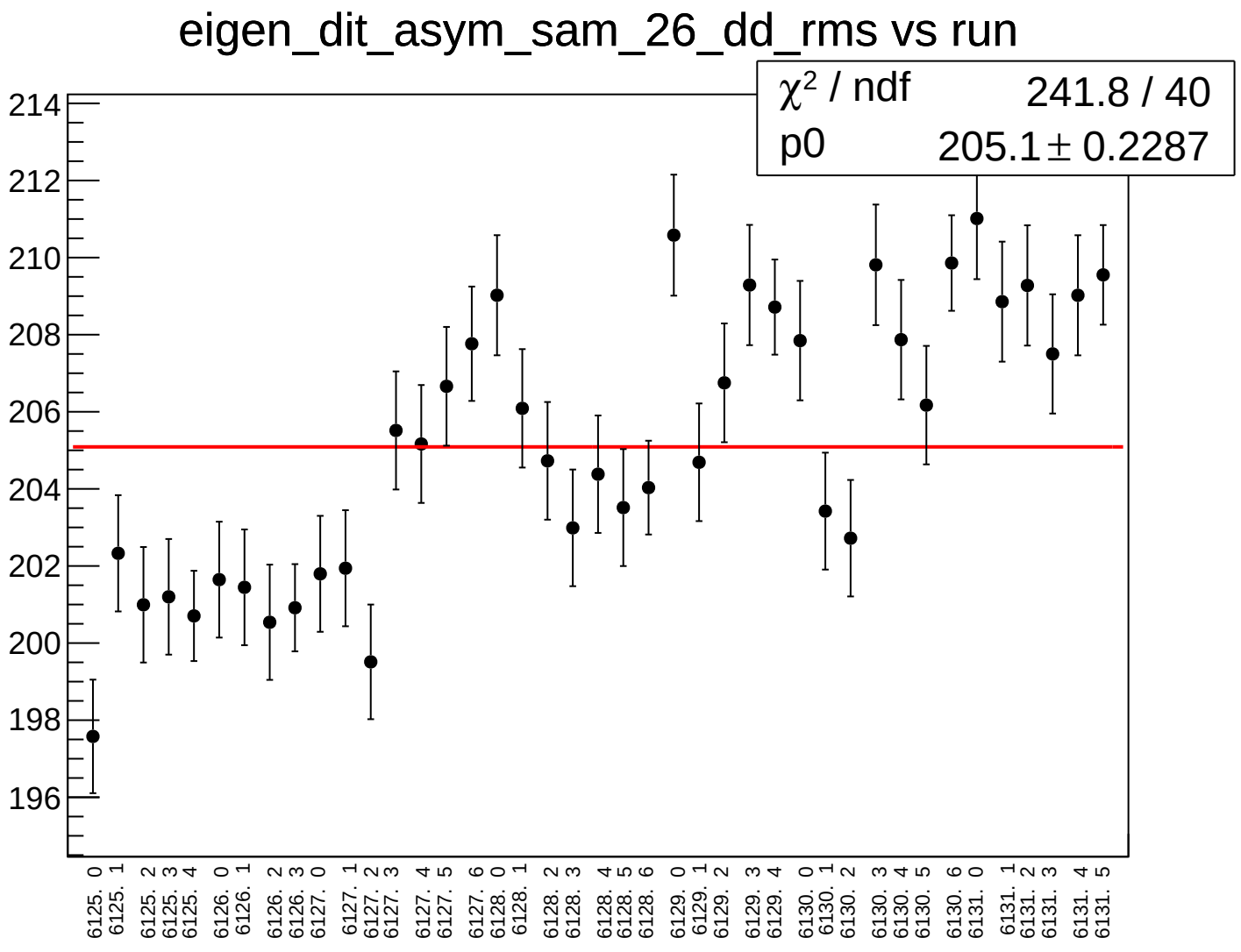

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 43.96 / 40
p0 −3247 ± 3571
60
40
20
0
−20
−40
−60
−80
−100
−120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −198.3
Std Dev 0
1
0
−1
−2
−3

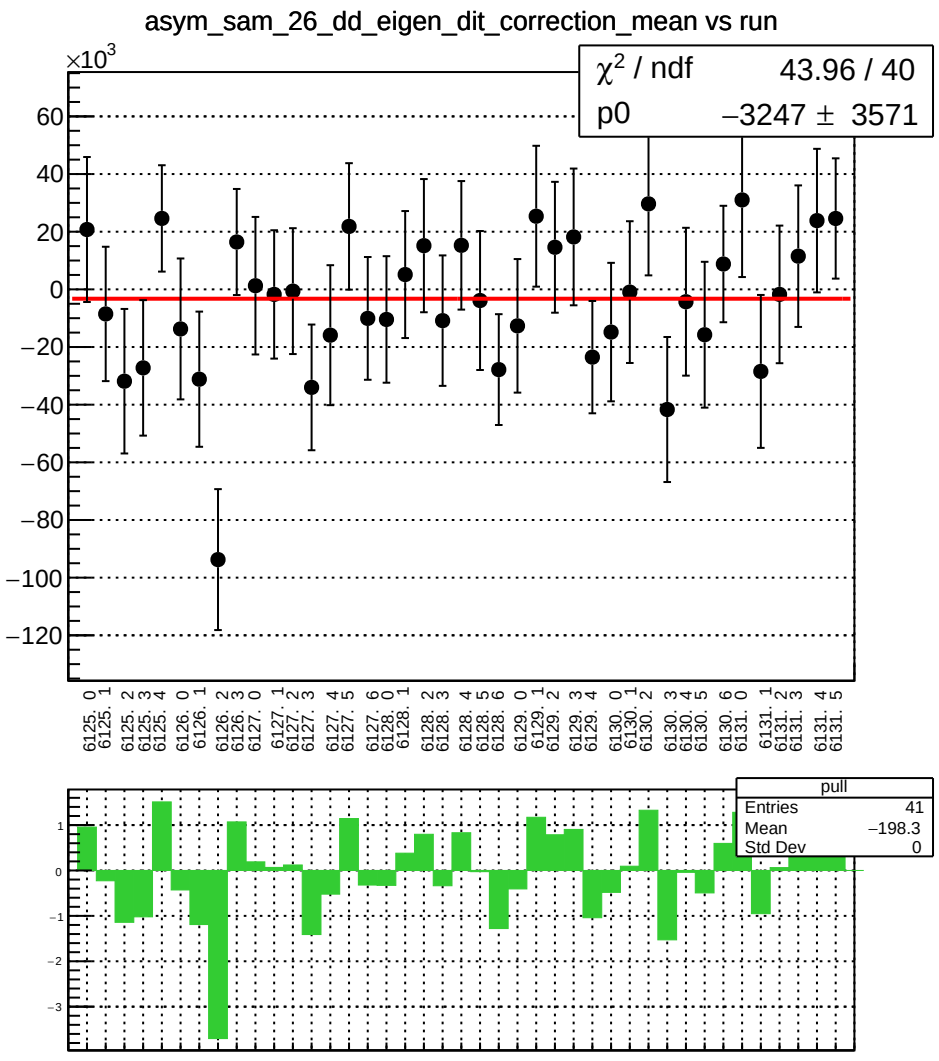

pull1D
Entries 41
Mean −0.01373
Std Dev 1.035
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

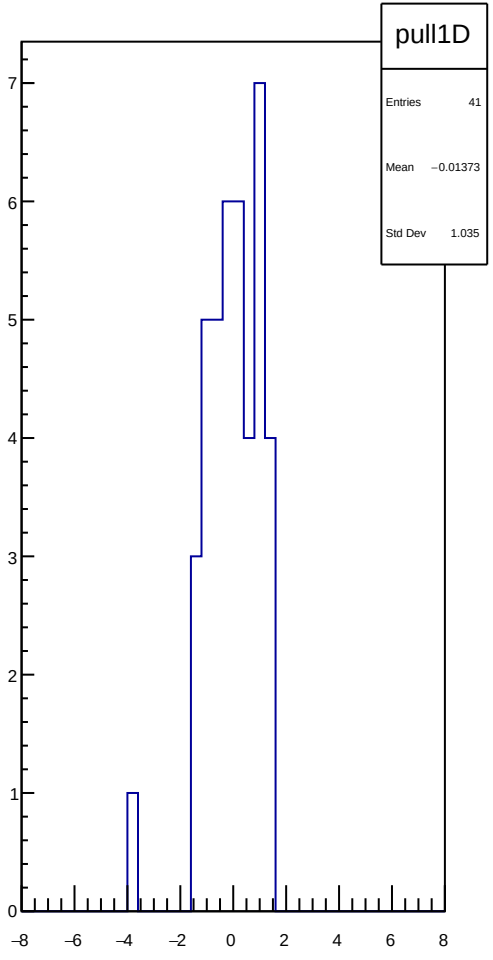

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 2195 / 40
p0 2261 ± 2.525
2600
2500
2400
2300
2200
2100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

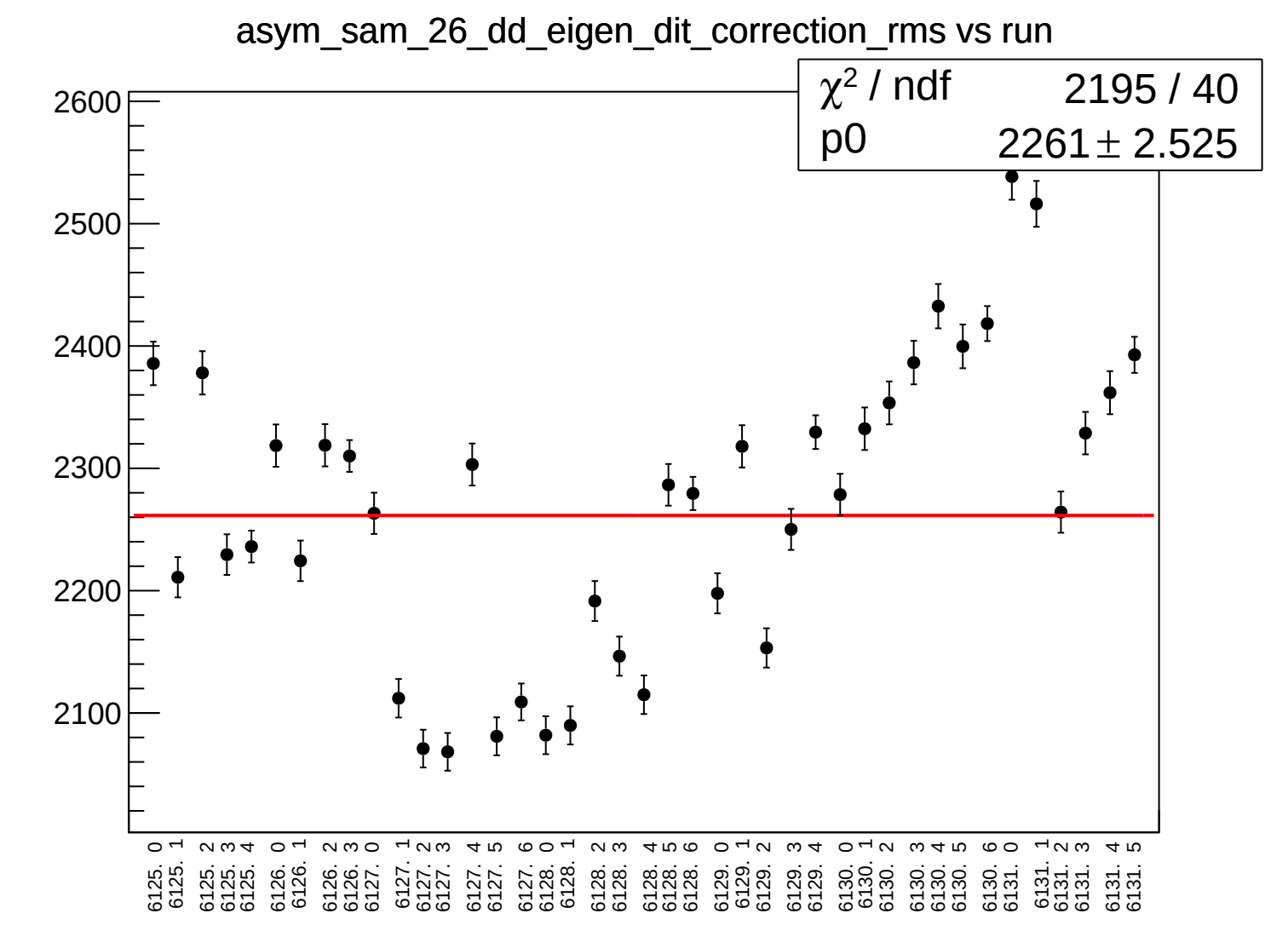

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 38.69 / 40
p0 270.4 ± 323.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 159.4
Std Dev 0
2
1
0
−1
−2

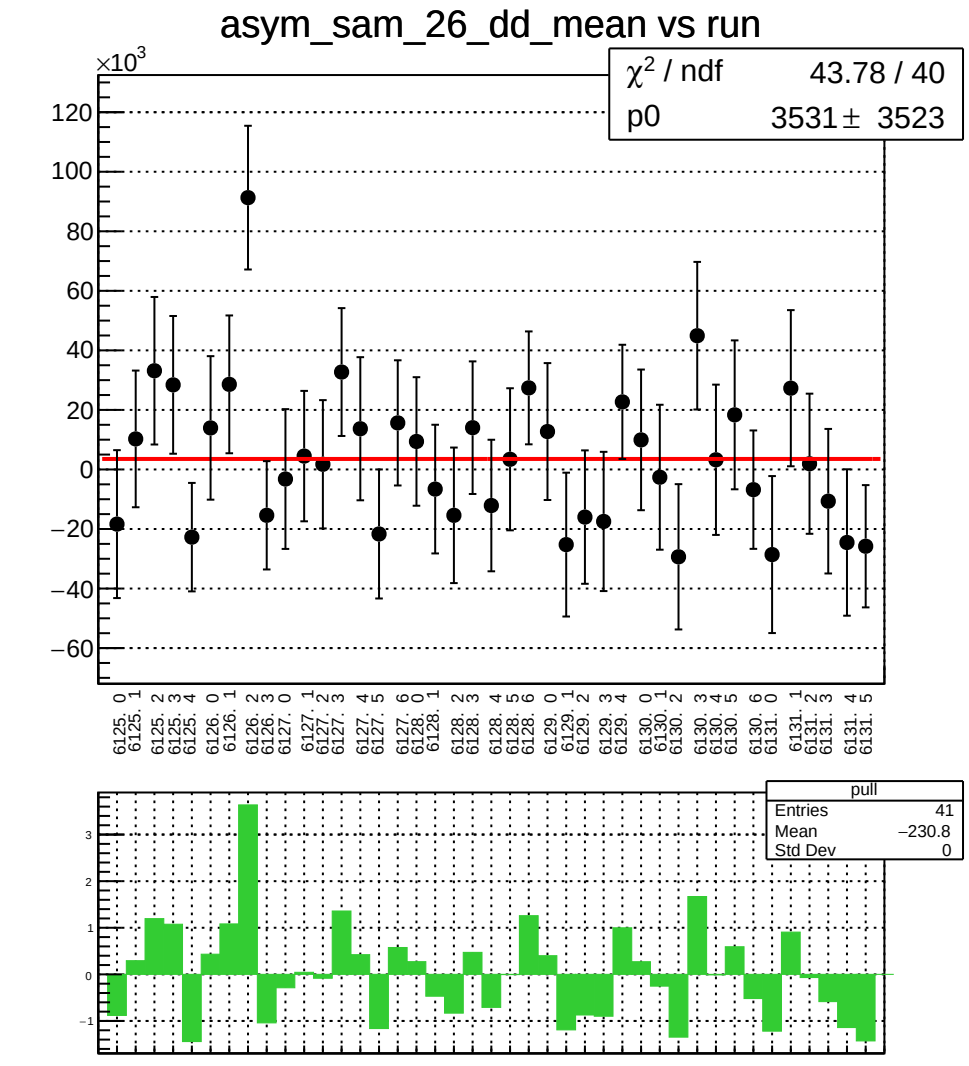

pull1D
Entries 41
Mean −0.01007
Std Dev 0.9713
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

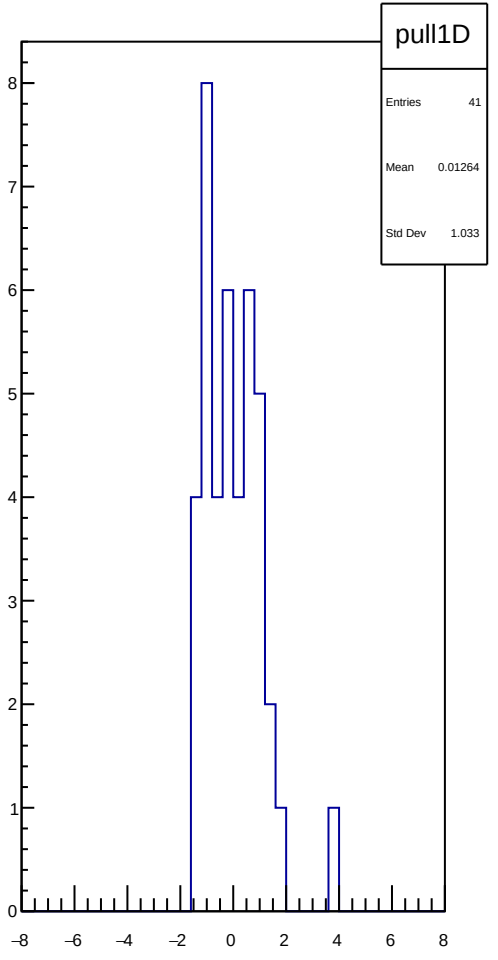

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 241.8 / 40
p0 205.1 ± 0.2287
214
212
210
208
206
204
202
200
198
196
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

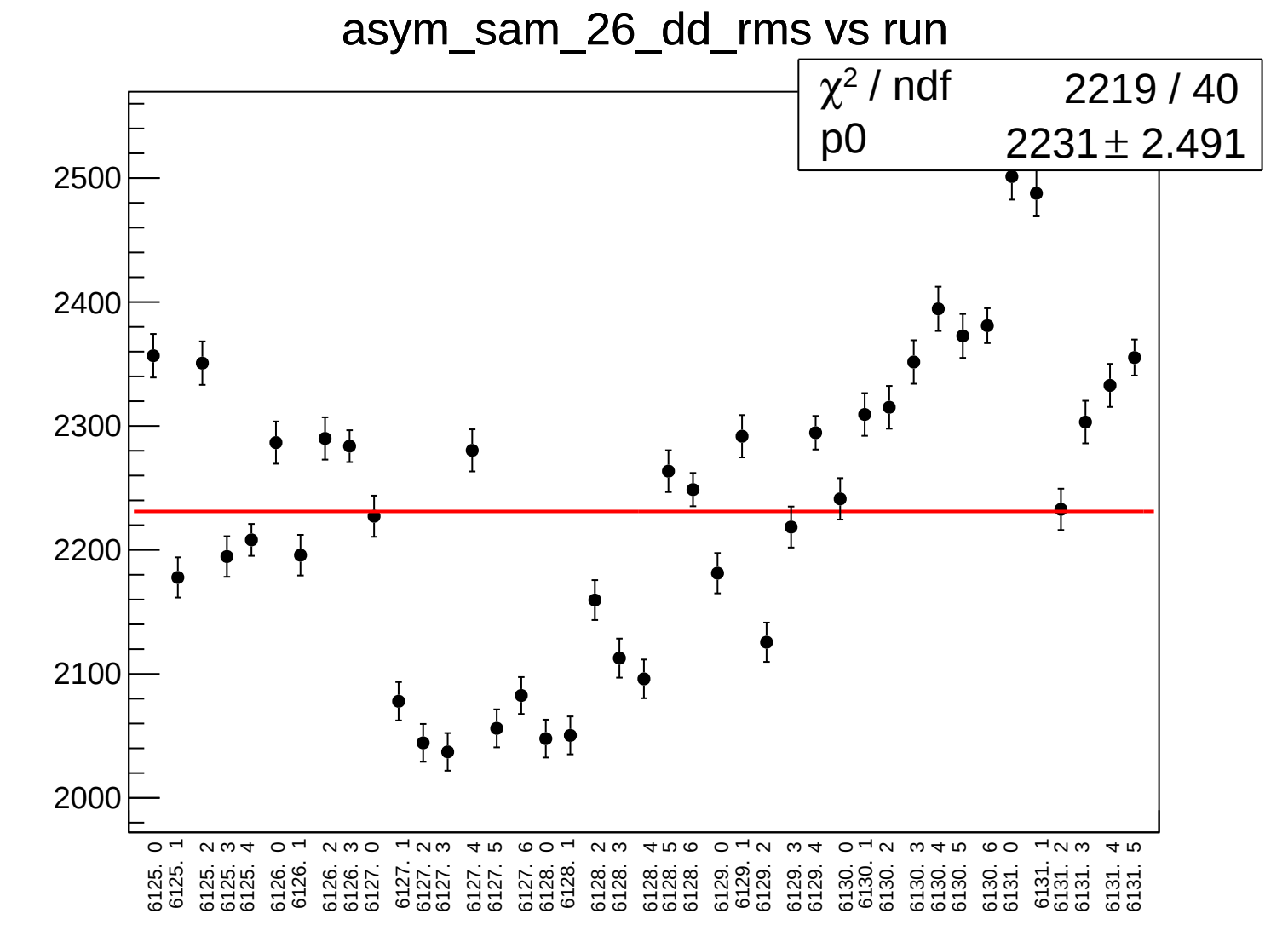

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 43.96 / 40
p0 −3247 ± 3571
60
40
20
0
−20
−40
−60
−80
−100
−120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −198.3
Std Dev 0
1
0
−1
−2
−3

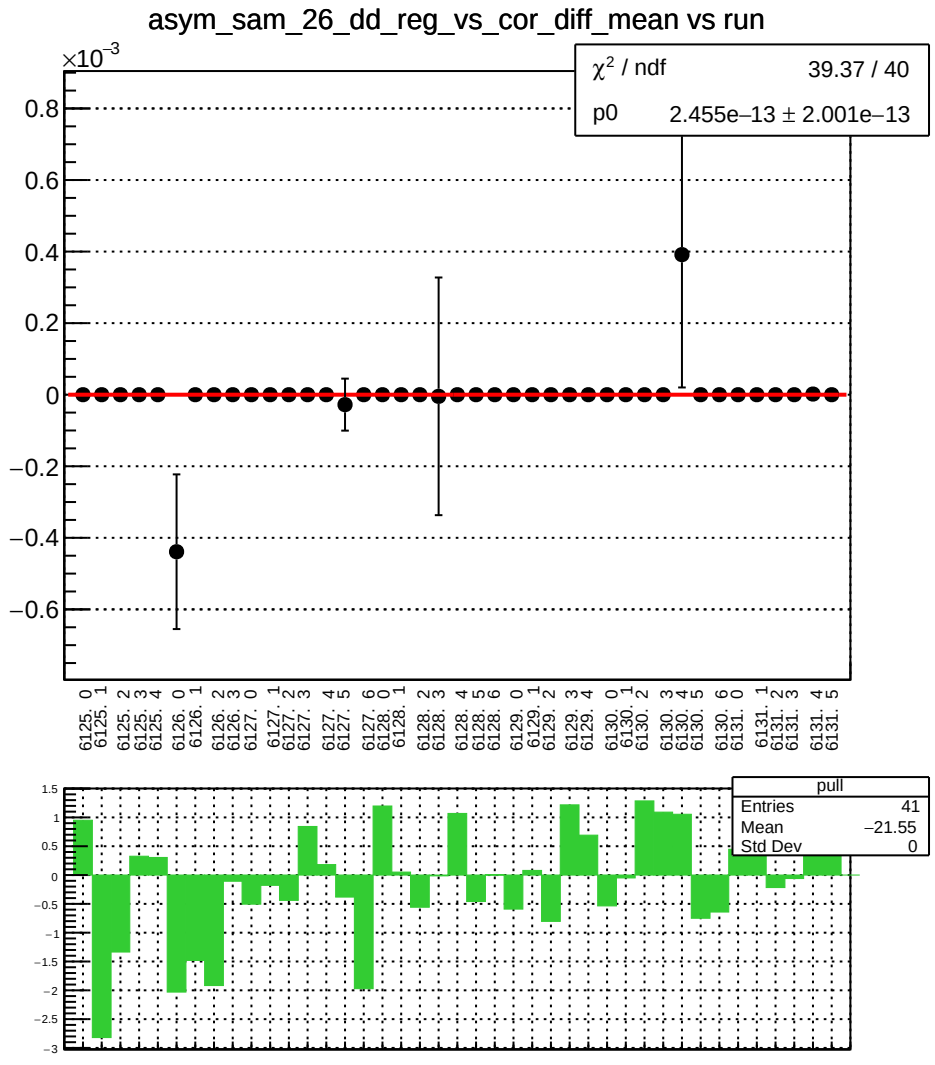

pull1D
Entries 41
Mean −0.01373
Std Dev 1.035
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

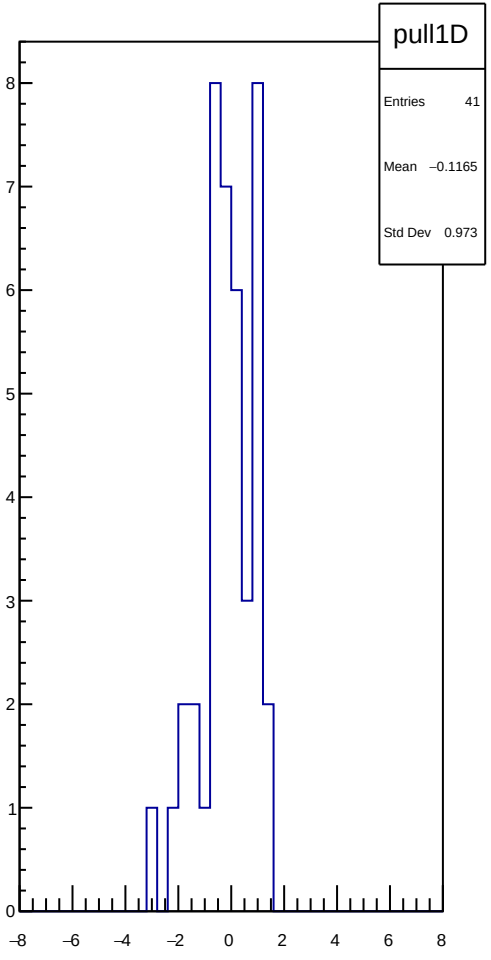

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2195 / 40
p0 2261 ± 2.525
2600
2500
2400
2300
2200
2100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

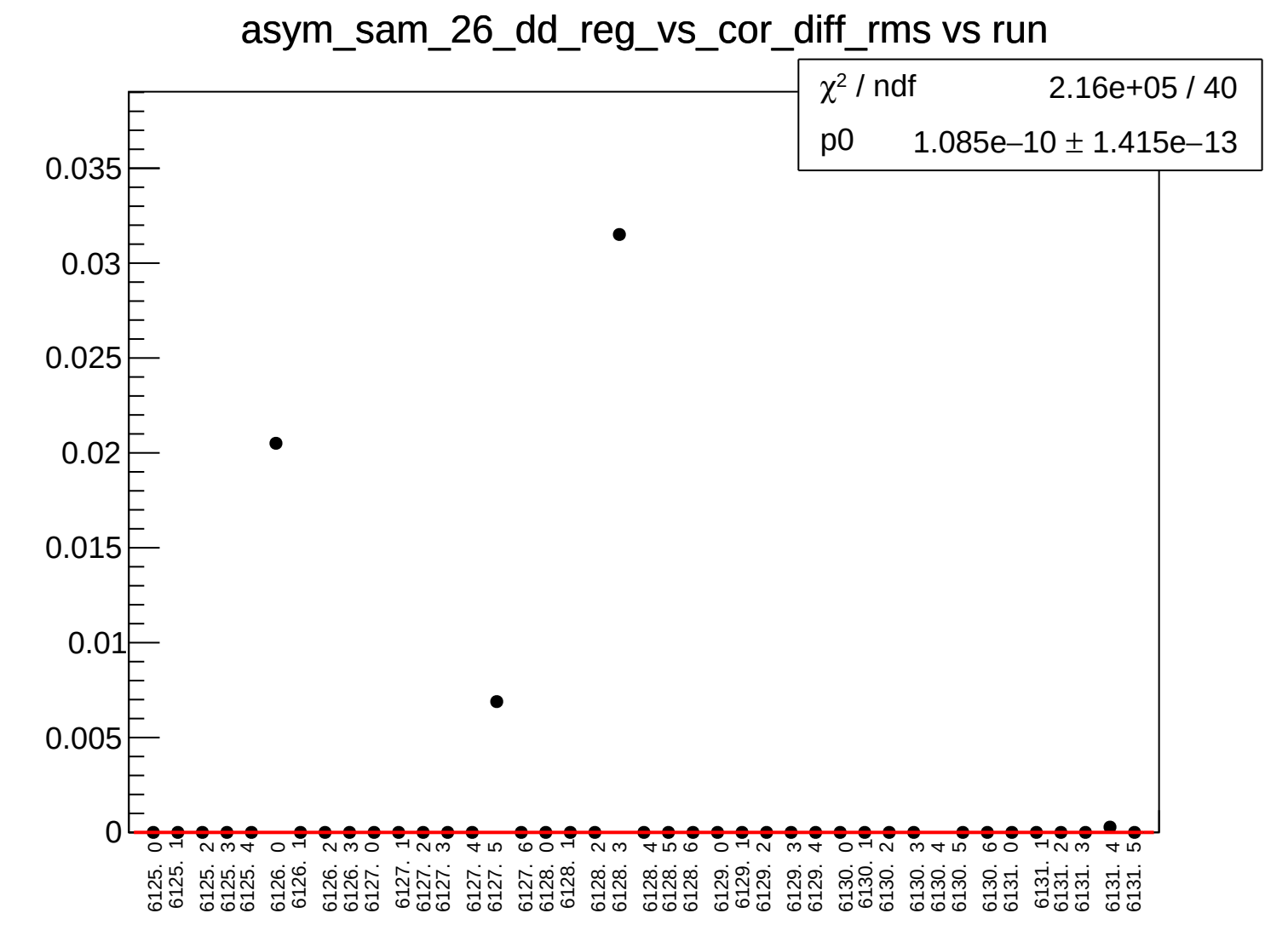

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 43.78 / 40
p0 3531 ± 3523
120
100
80
60
40
20
0
−20
−40
−60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −230.8
Std Dev 0
3
2
1
0
−1

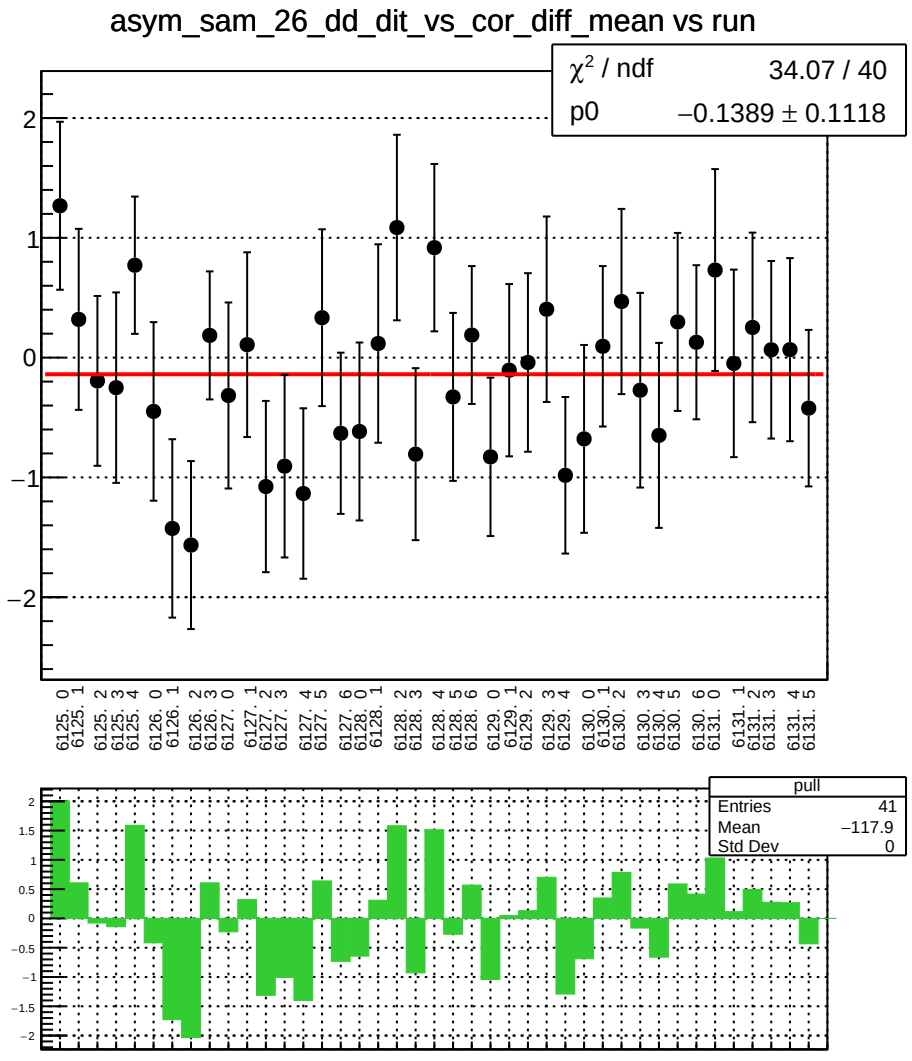

pull1D
Entries 41
Mean 0.01264
Std Dev 1.033
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

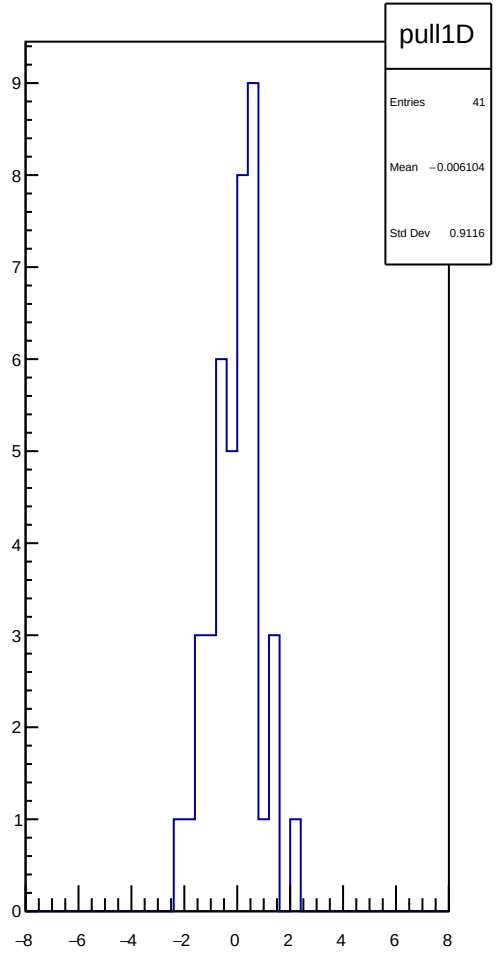

asym_sam_26_dd_rms vs run
χ² / ndf 2219 / 40
p0 2231 ± 2.491
2500
2400
2300
2200
2100
2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

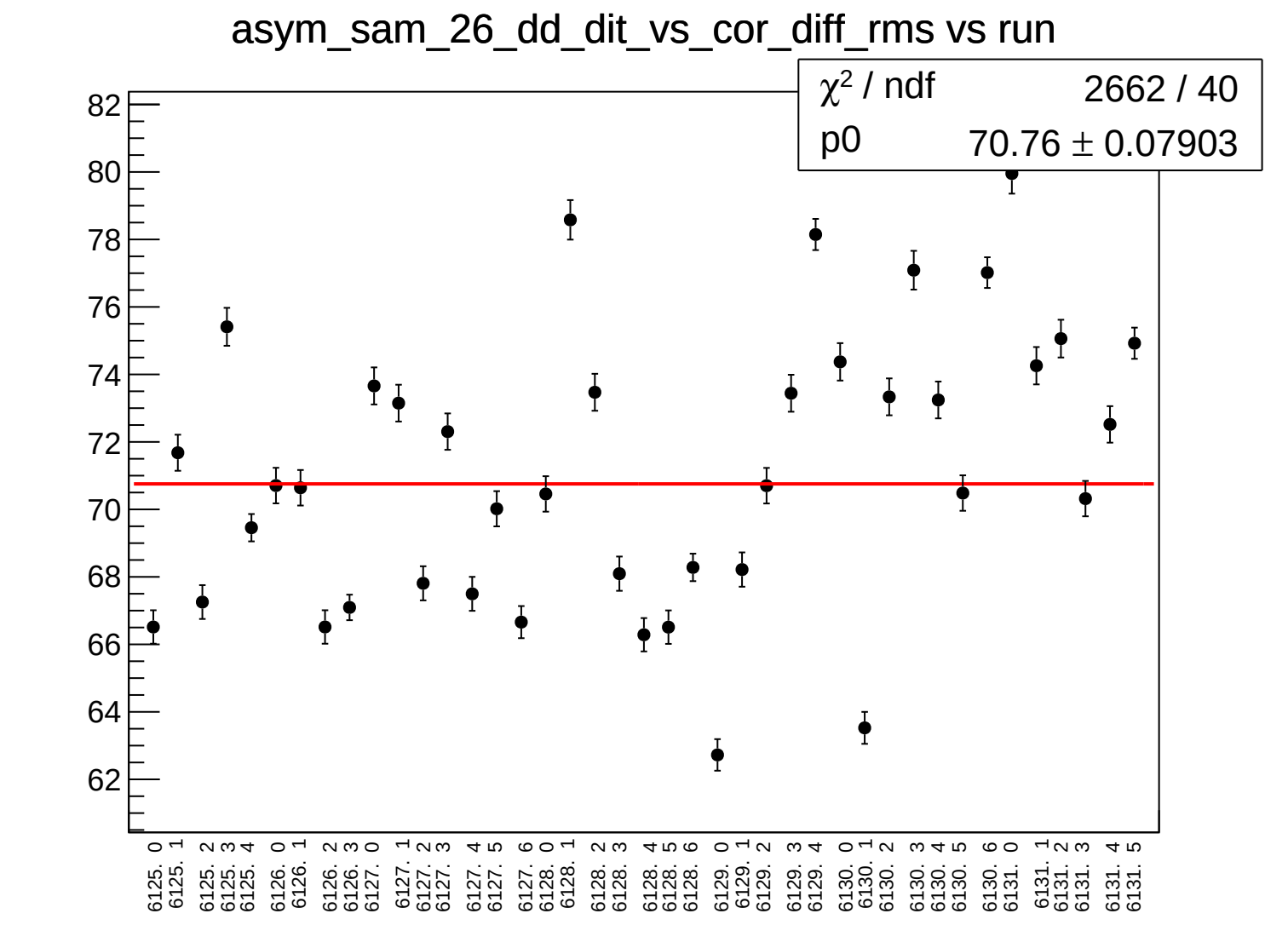

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 39.37 / 40
p0 2.455e−13 ± 2.001e−13
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −21.55
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3


pull1D
Entries 41
Mean −0.1165
Std Dev 0.973
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.16e+05 / 40
p0 1.085e−10 ± 1.415e−13
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 34.07 / 40
p0 −0.1389 ± 0.1118
pull
Entries 41
Mean −117.9
Std Dev 0


pull1D
Entries 41
Mean −0.006104
Std Dev 0.9116


asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2662 / 40
p0 70.76 ± 0.07903
82
80
78
76
74
72
70
68
66
64
62
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
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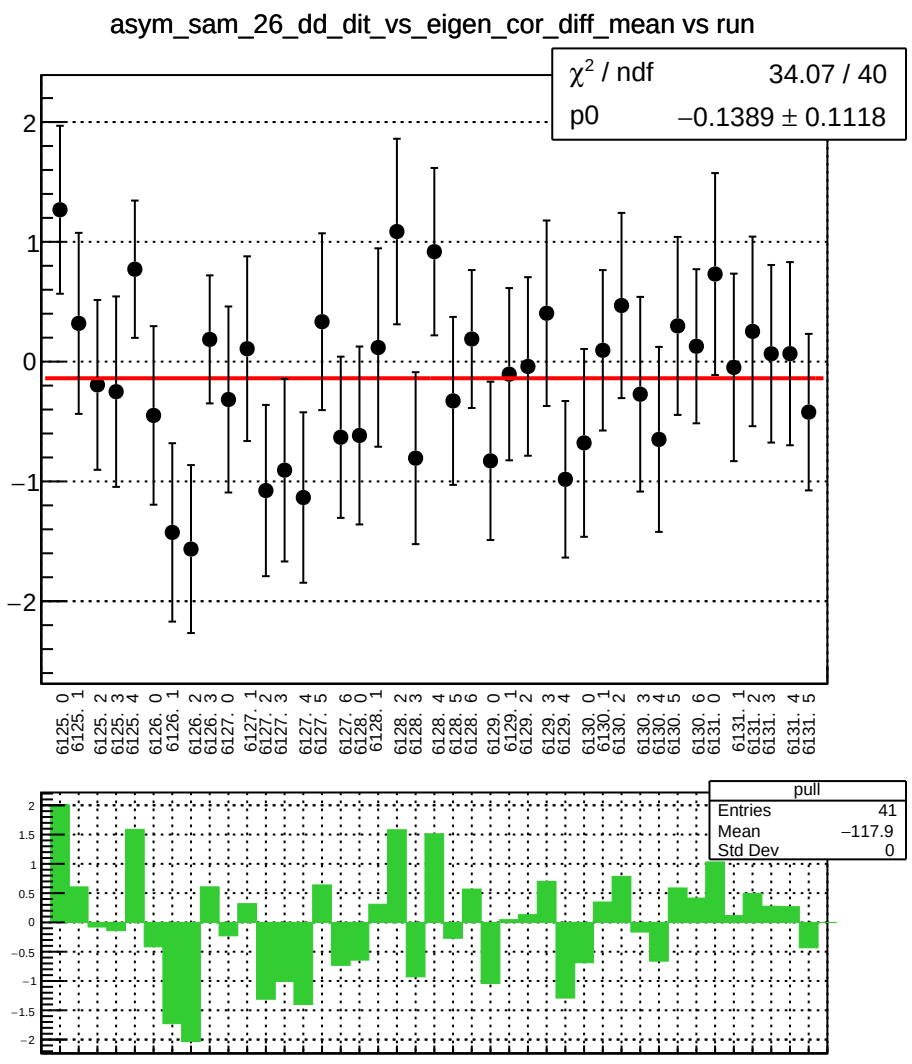
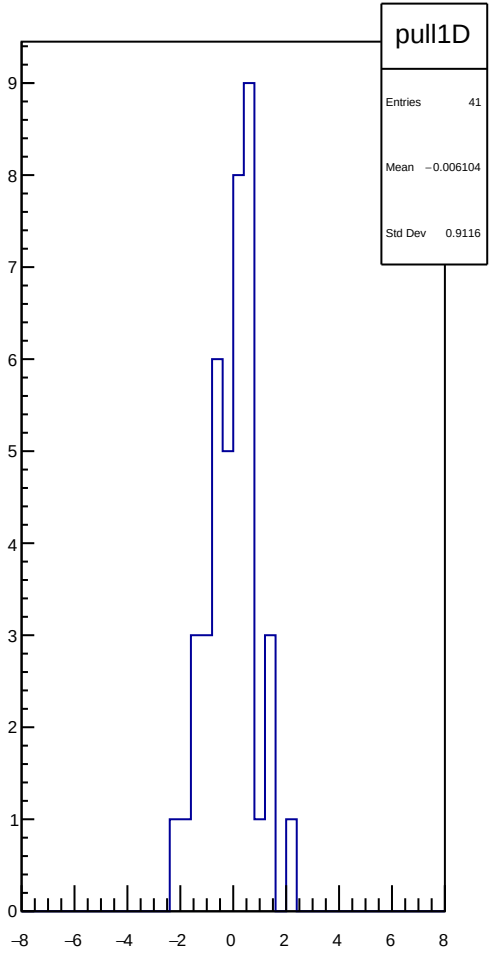
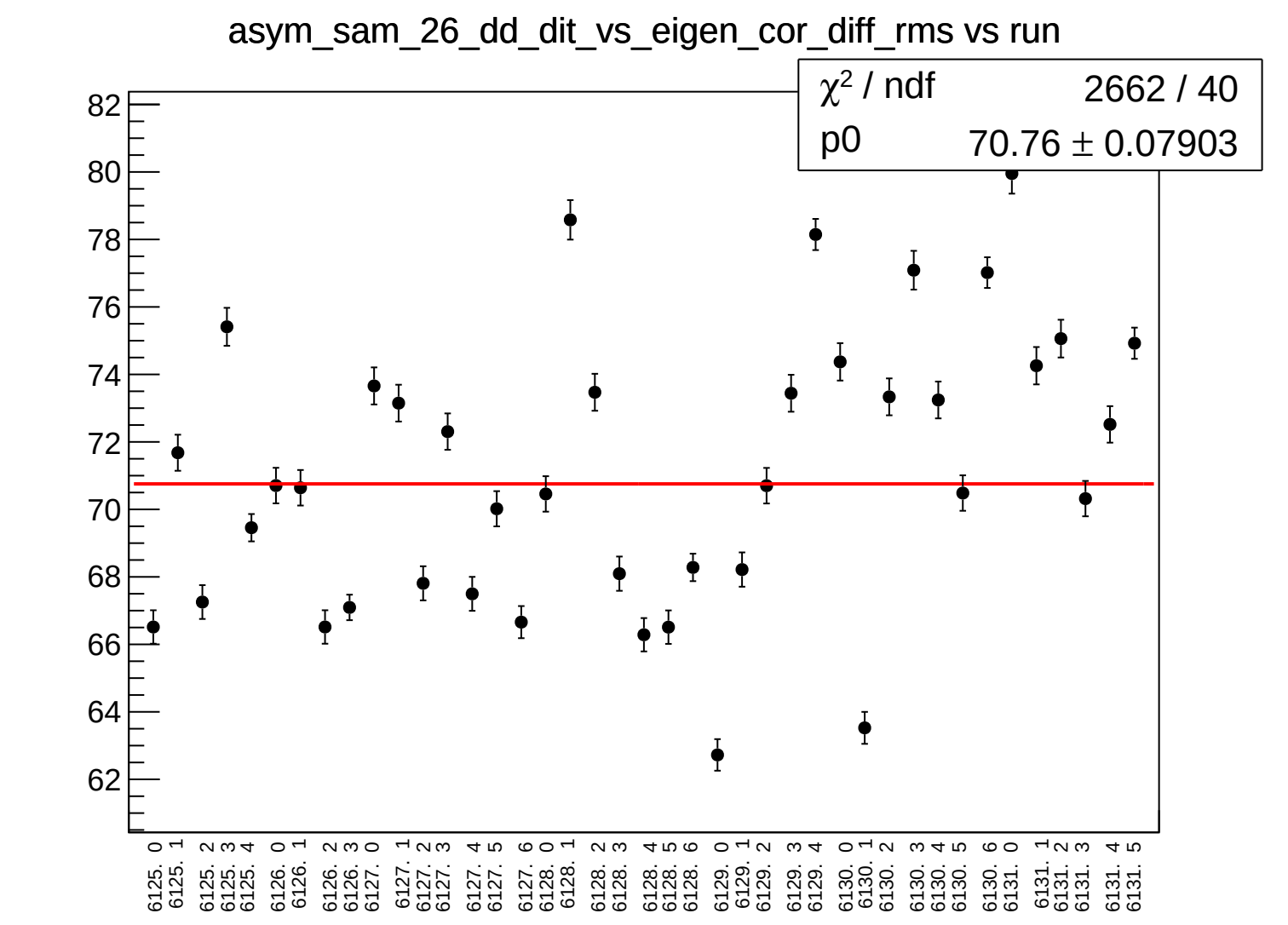
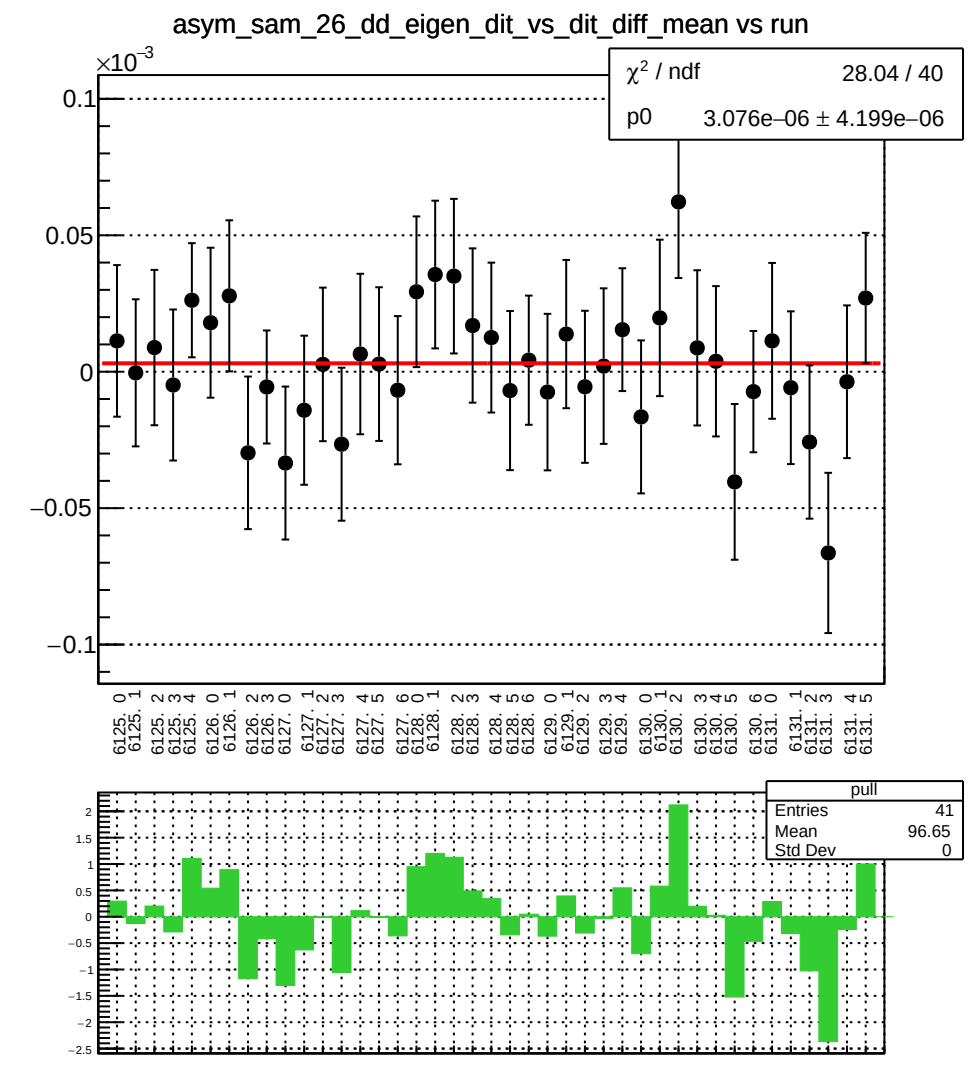
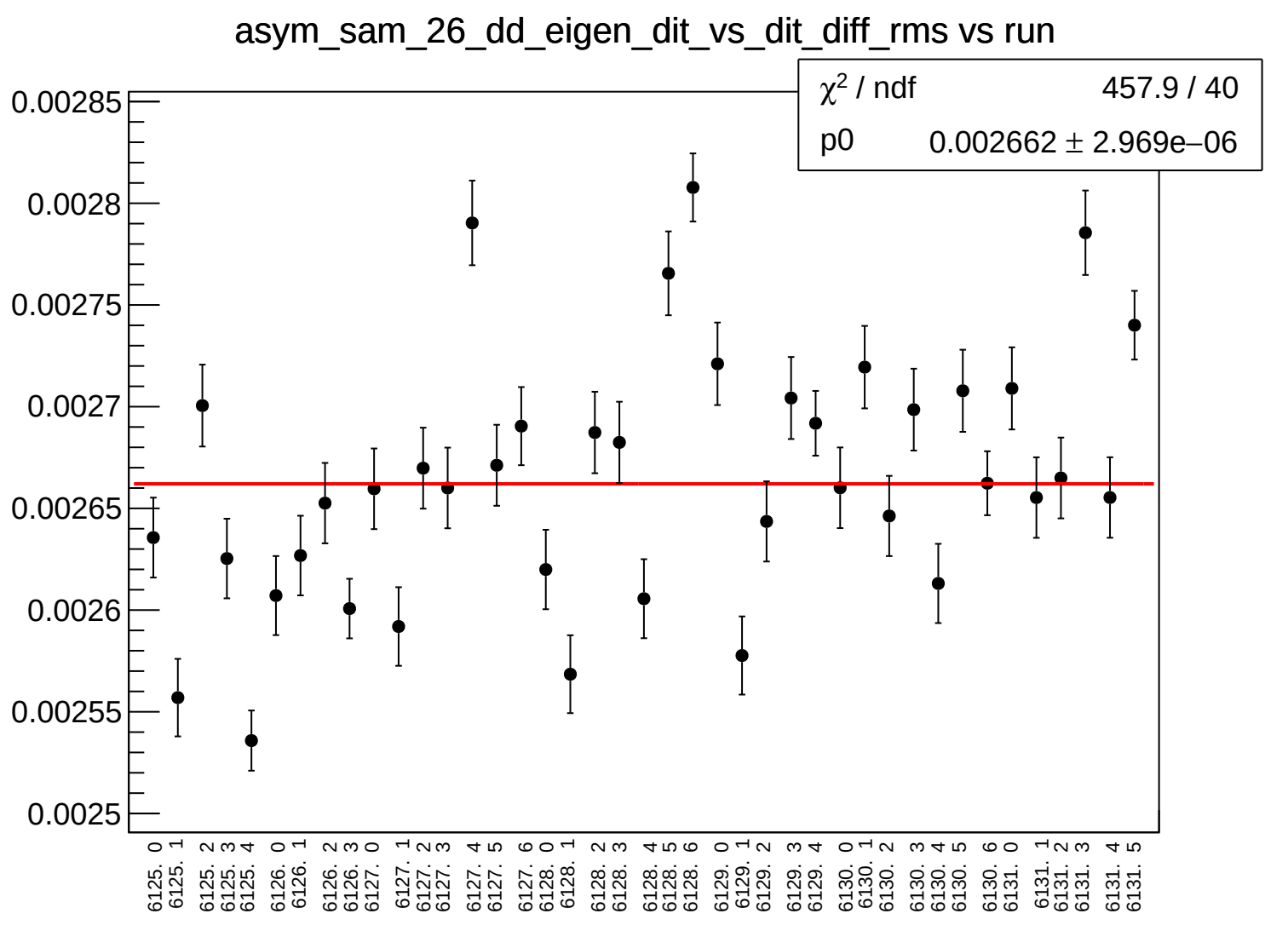
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

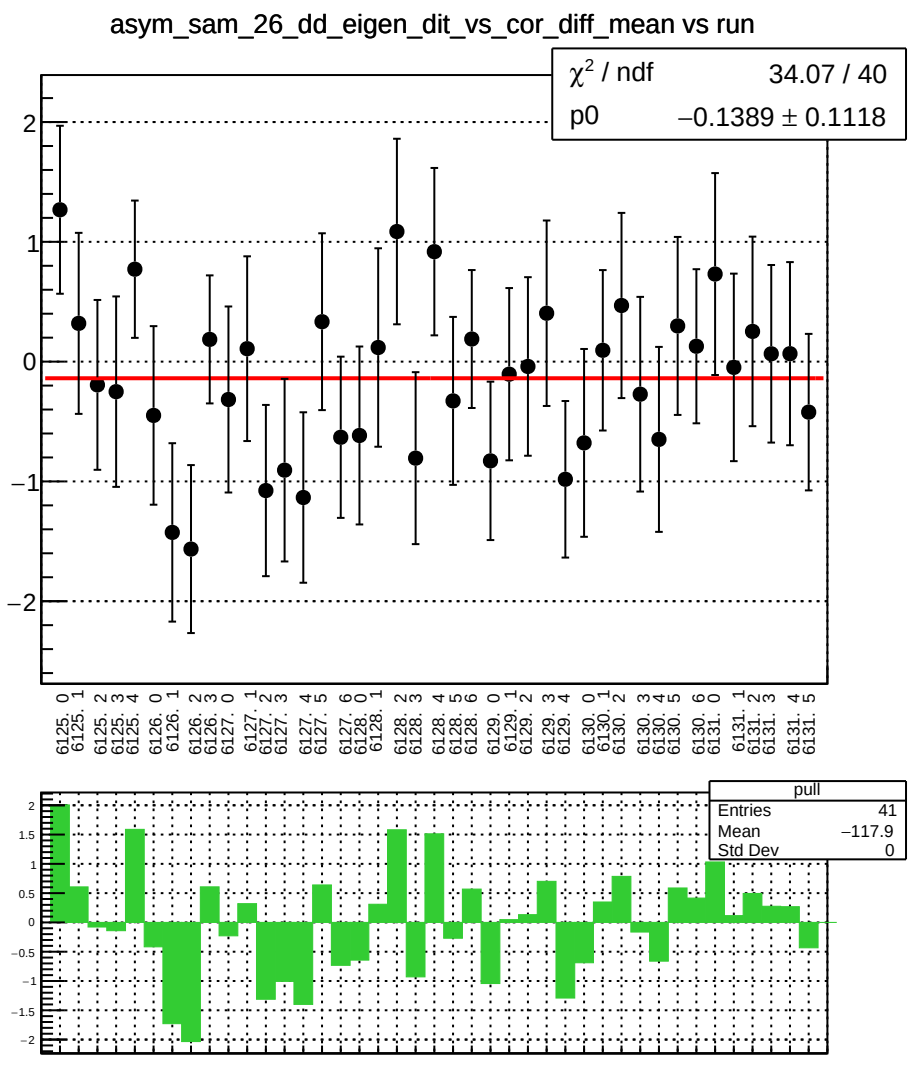

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.07 / 40
p0 −0.1389 ± 0.1118
pull
Entries 41
Mean −117.9
Std Dev 0

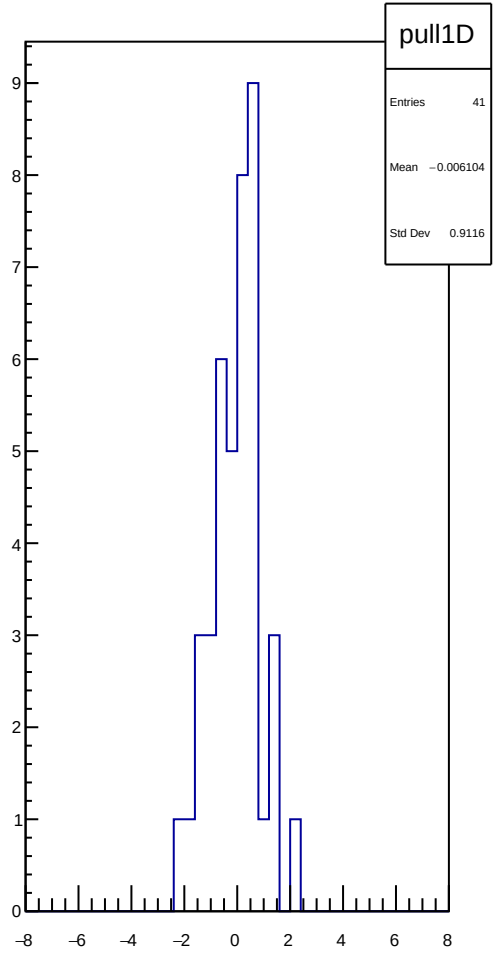

pull1D
Entries 41
Mean −0.006104
Std Dev 0.9116

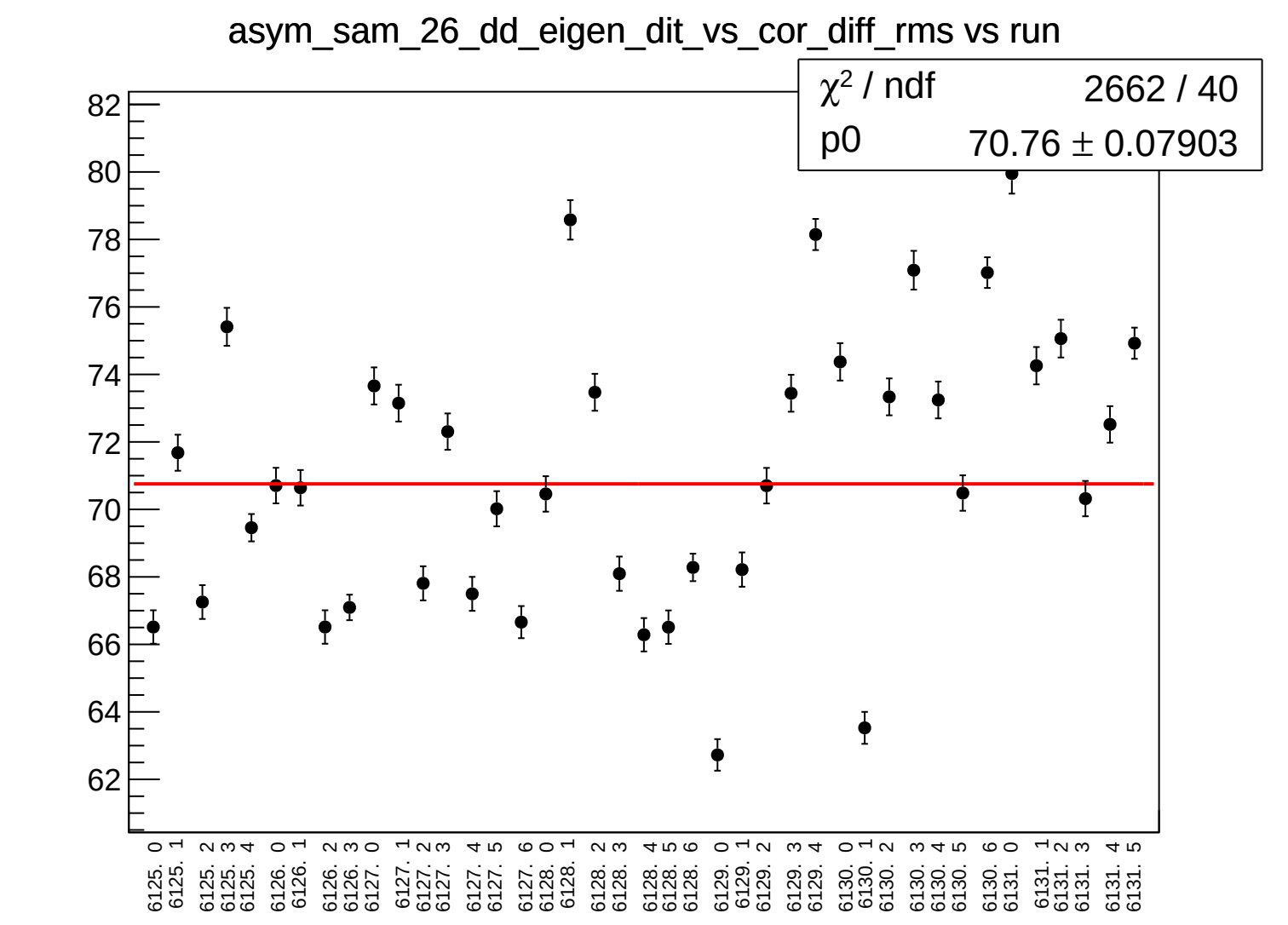

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2662 / 40
p0 70.76 ± 0.07903
82
80
78
76
74
72
70
68
66
64
62
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

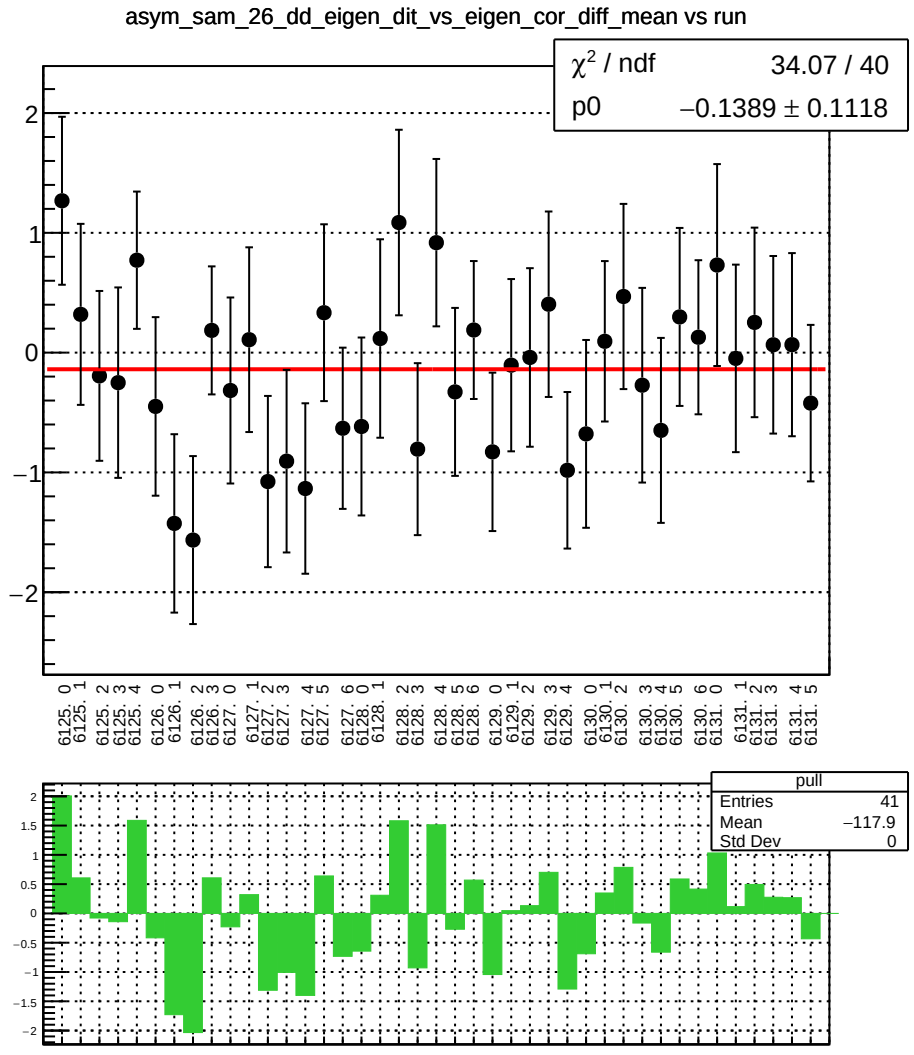

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 28.04 / 40
p0 3.076e−06 ± 4.199e−06
0.1
0.05
0
−0.05
−0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 96.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean −0.01479
Std Dev 0.8268
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

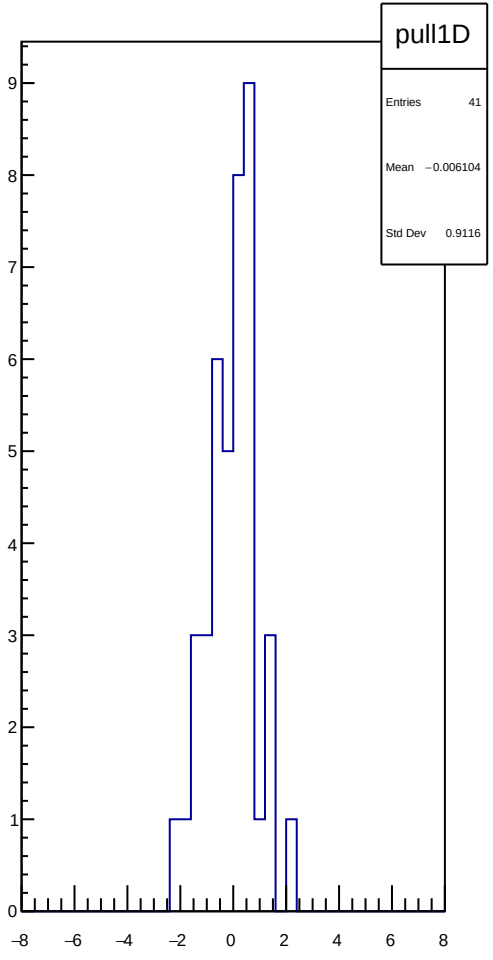

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 457.9 / 40
p0 0.002662 ± 2.969e−06
0.00285
0.0028
0.00275
0.0027
0.00265
0.0026
0.00255
0.0025
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

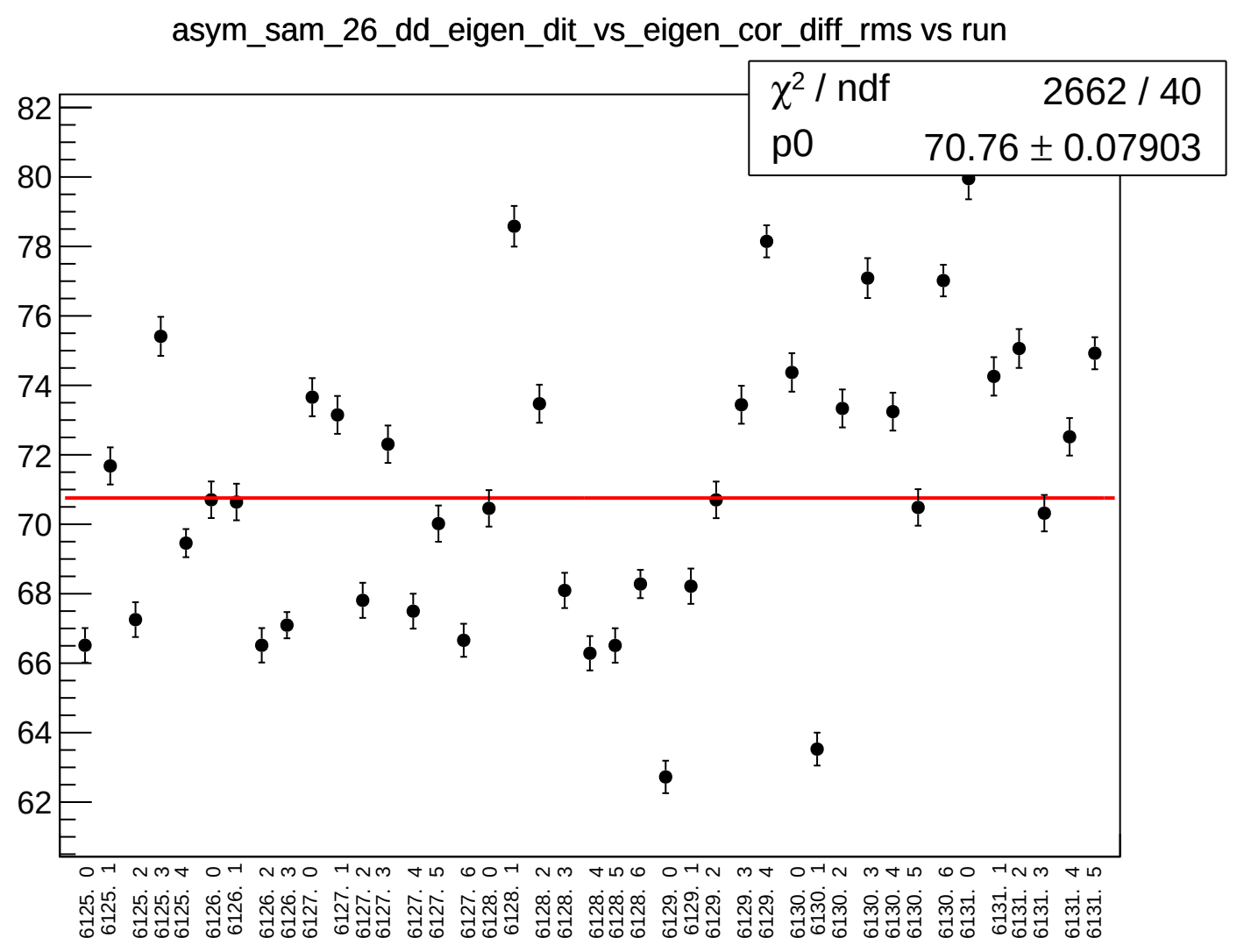

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 34.07 / 40
p0 −0.1389 ± 0.1118
pull
Entries 41
Mean −117.9
Std Dev 0

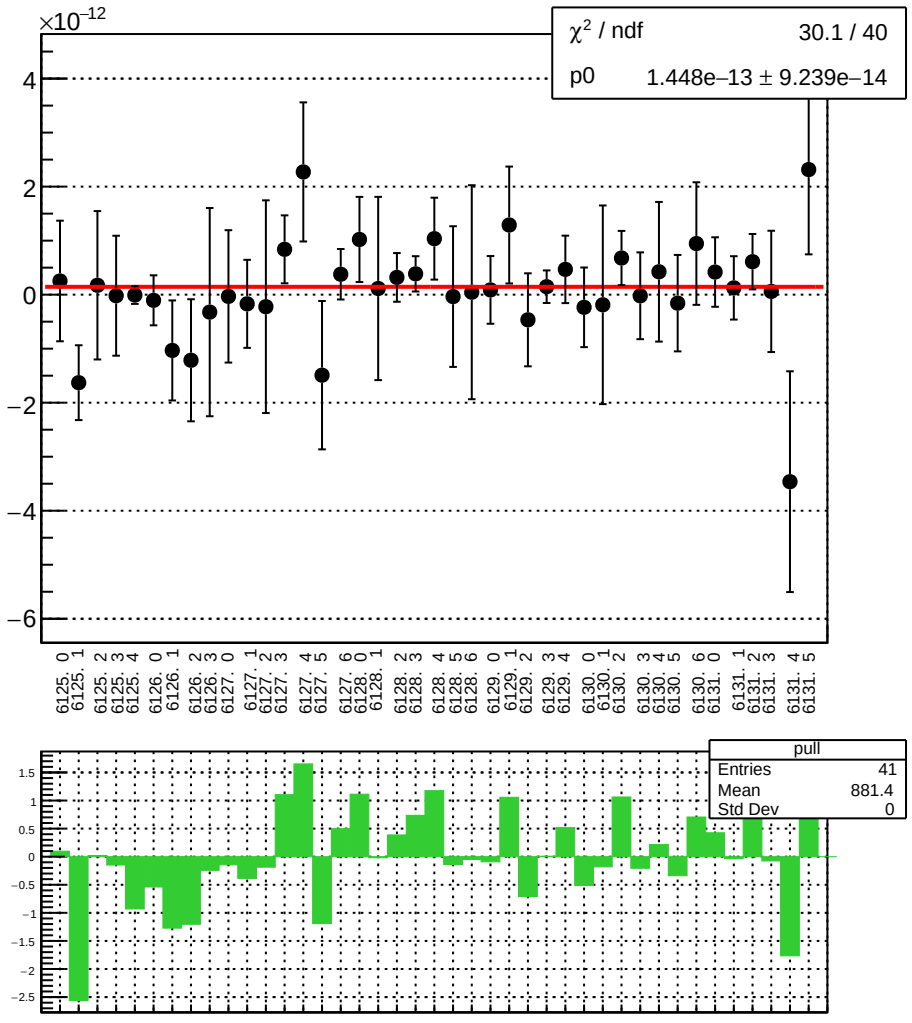

pull1D
Entries 41
Mean −0.006104
Std Dev 0.9116

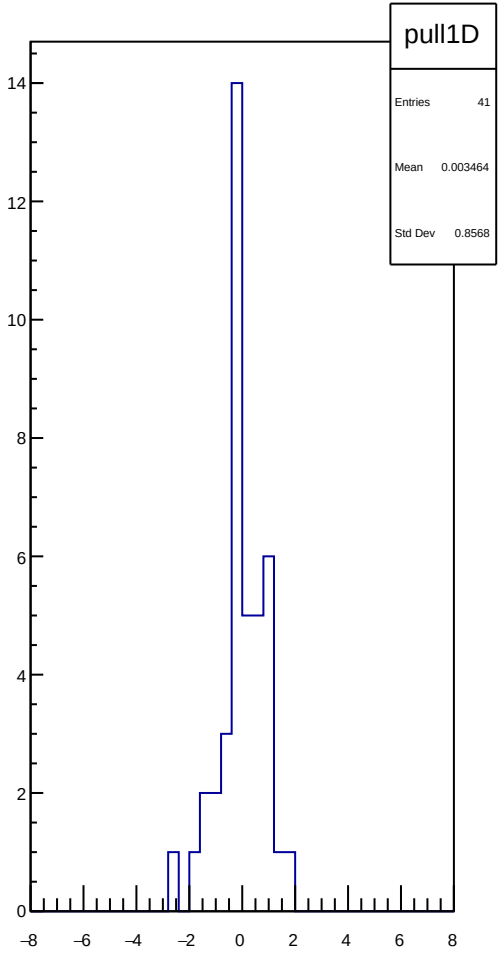

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2662 / 40
p0 70.76 ± 0.07903
82
80
78
76
74
72
70
68
66
64
62
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

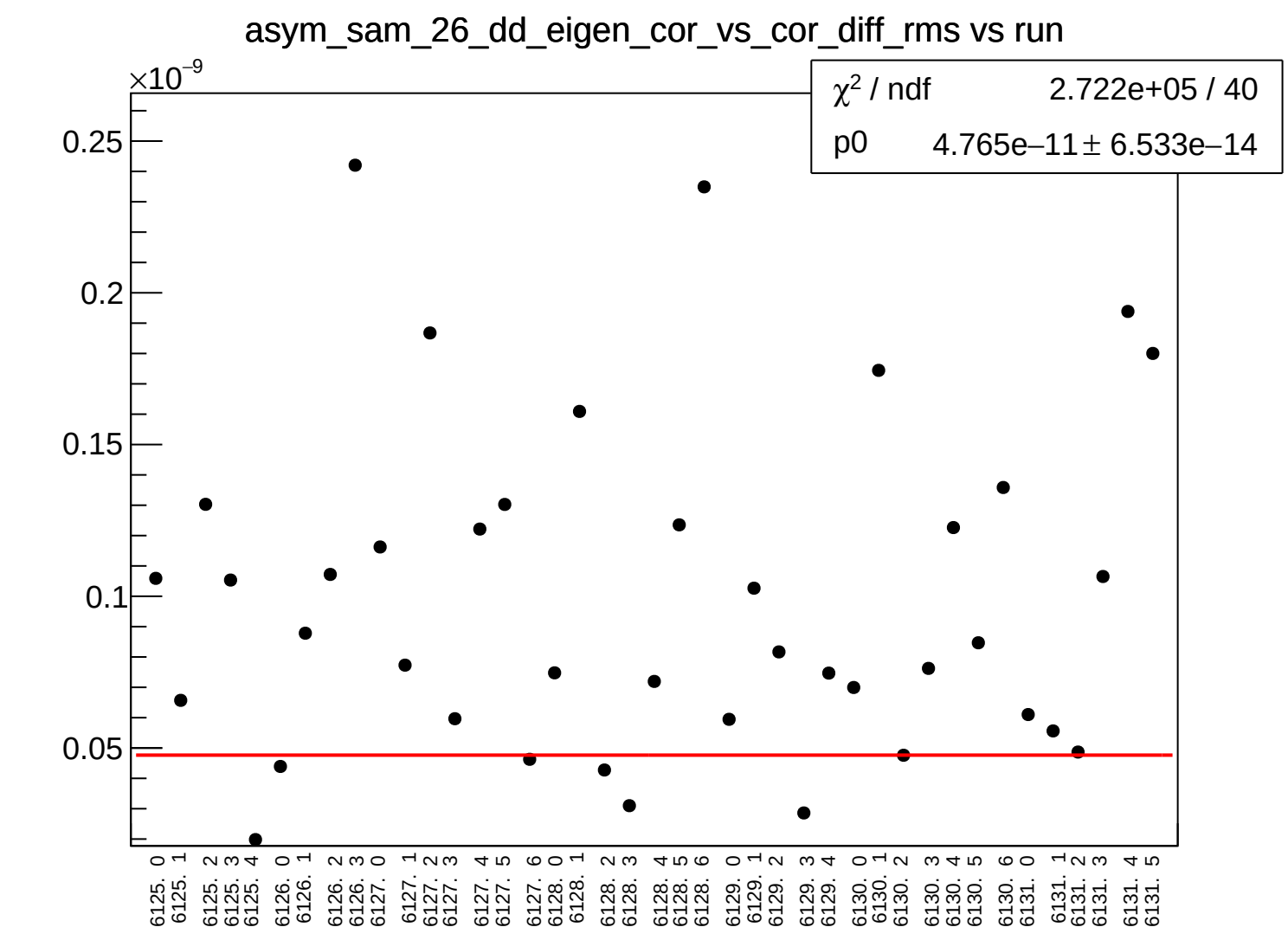

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.07 / 40
p0 −0.1389 ± 0.1118
pull
Entries 41
Mean −117.9
Std Dev 0

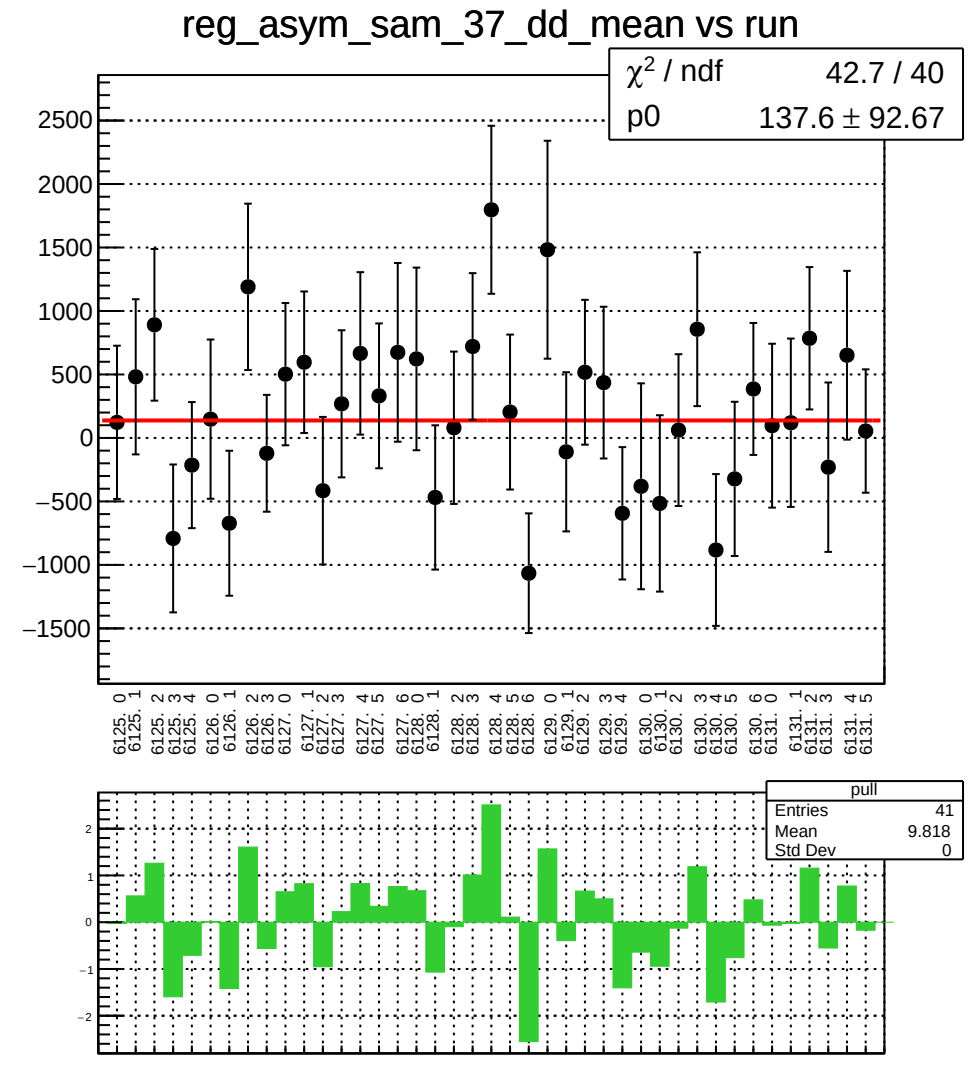

pull1D
Entries 41
Mean −0.006104
Std Dev 0.9116

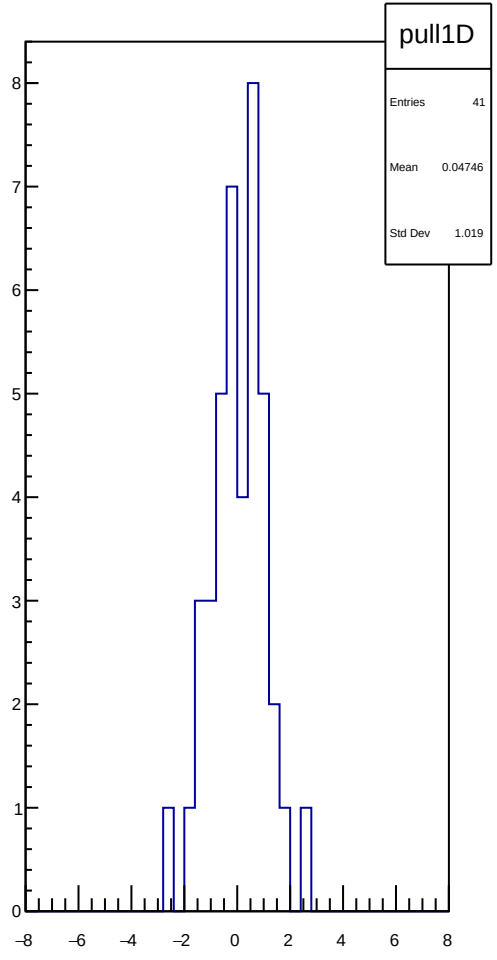

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2662 / 40
p0 70.76 ± 0.07903
82
80
78
76
74
72
70
68
66
64
62
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

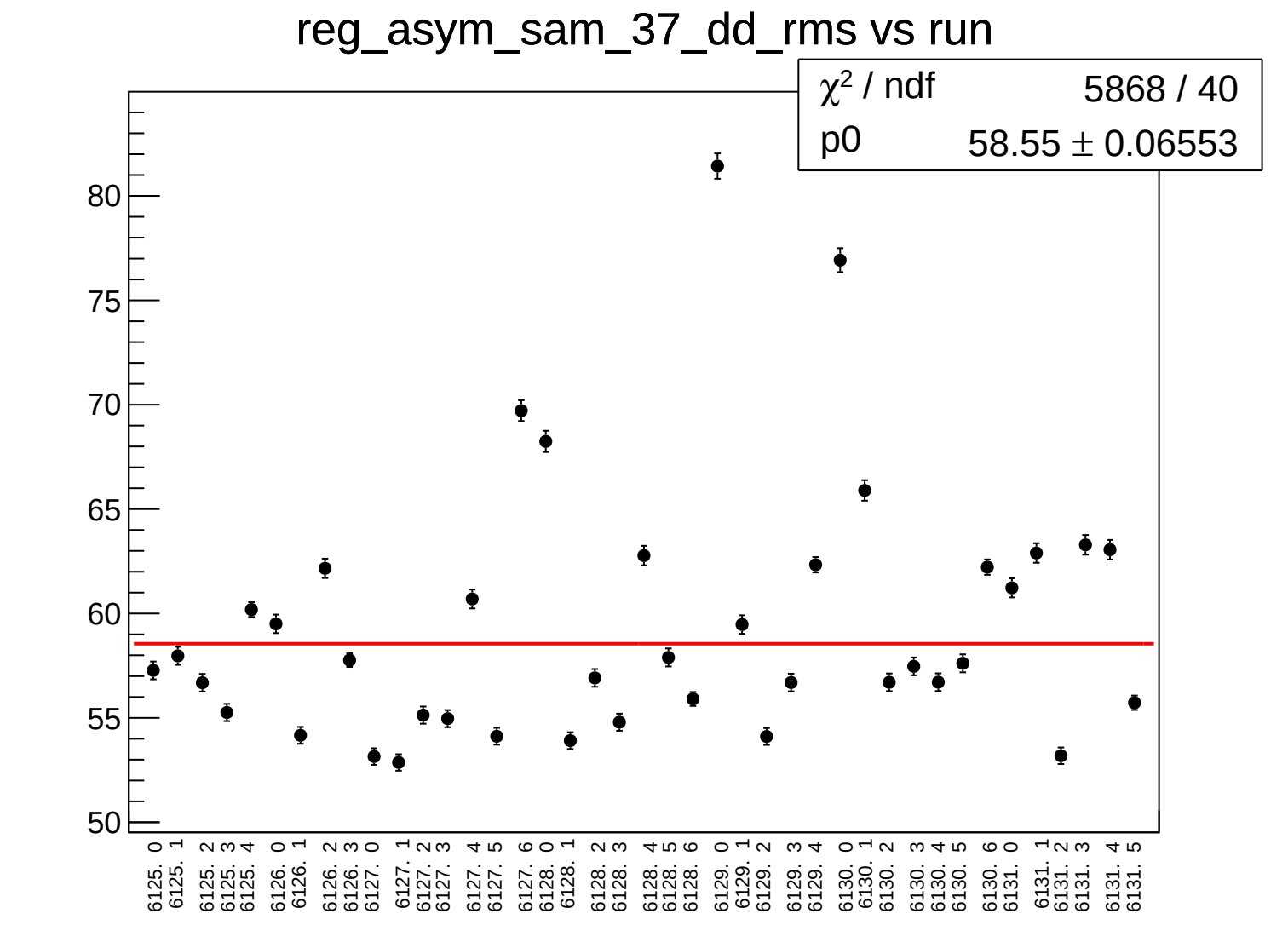

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 30.1 / 40
p0 1.448e−13 ± 9.239e−14
pull
Entries 41
Mean 881.4
Std Dev 0

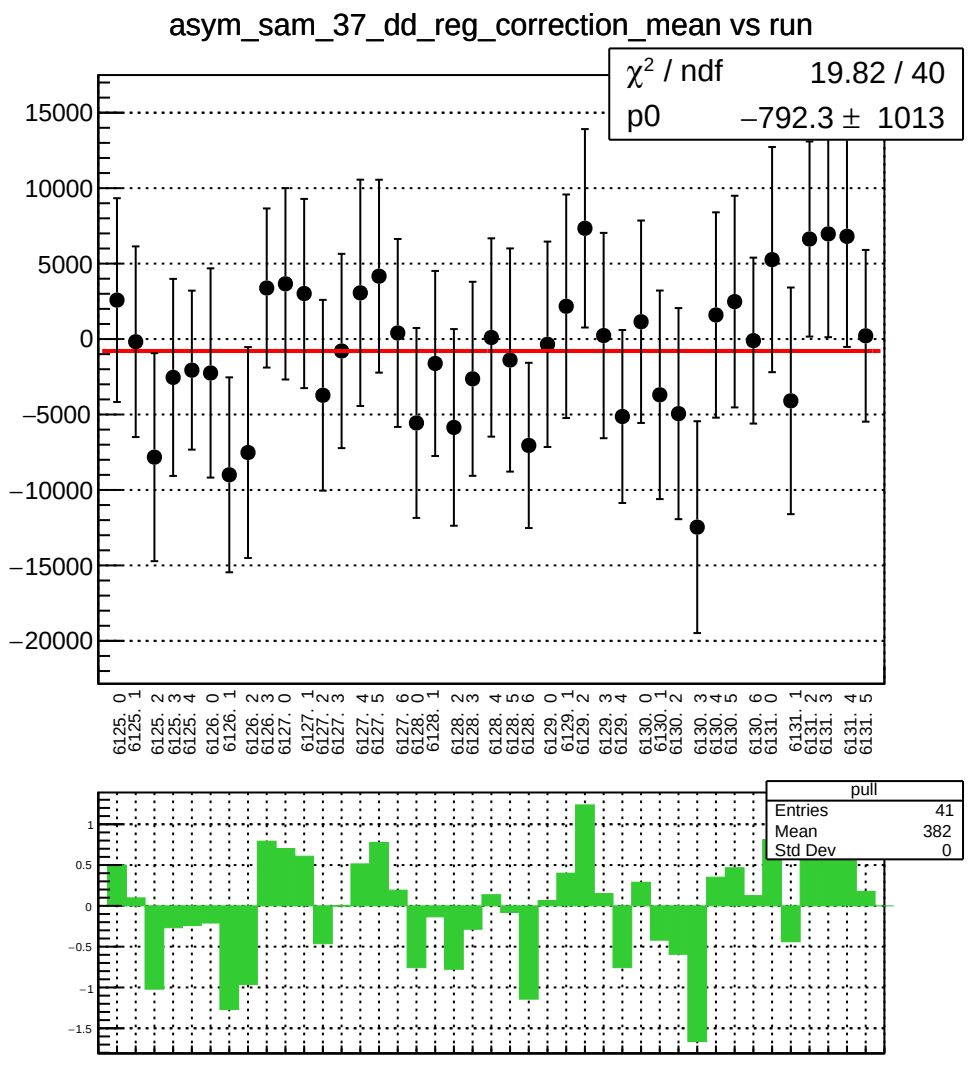

pull1D
Entries 41
Mean 0.003464
Std Dev 0.8568

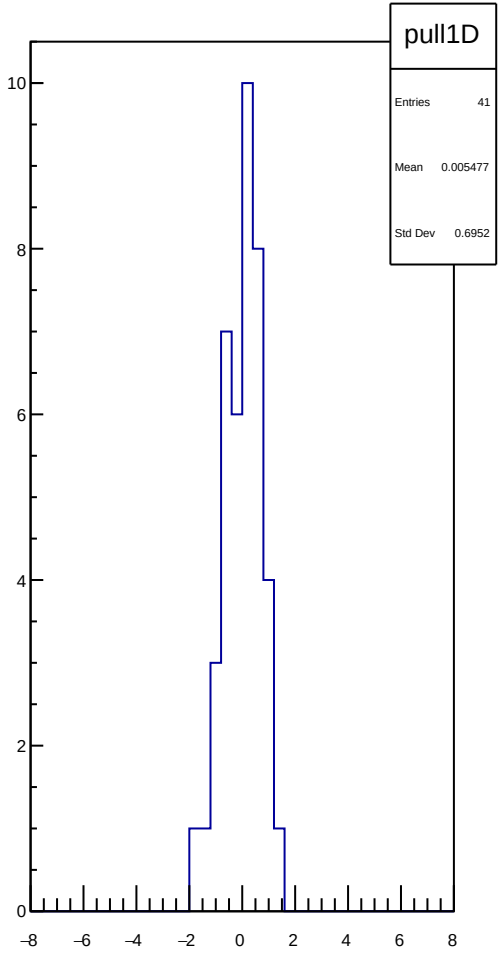

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.722e+05 / 40
p0 4.765e−11 ± 6.533e−14
0.25
0.2
0.15
0.1
0.05
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

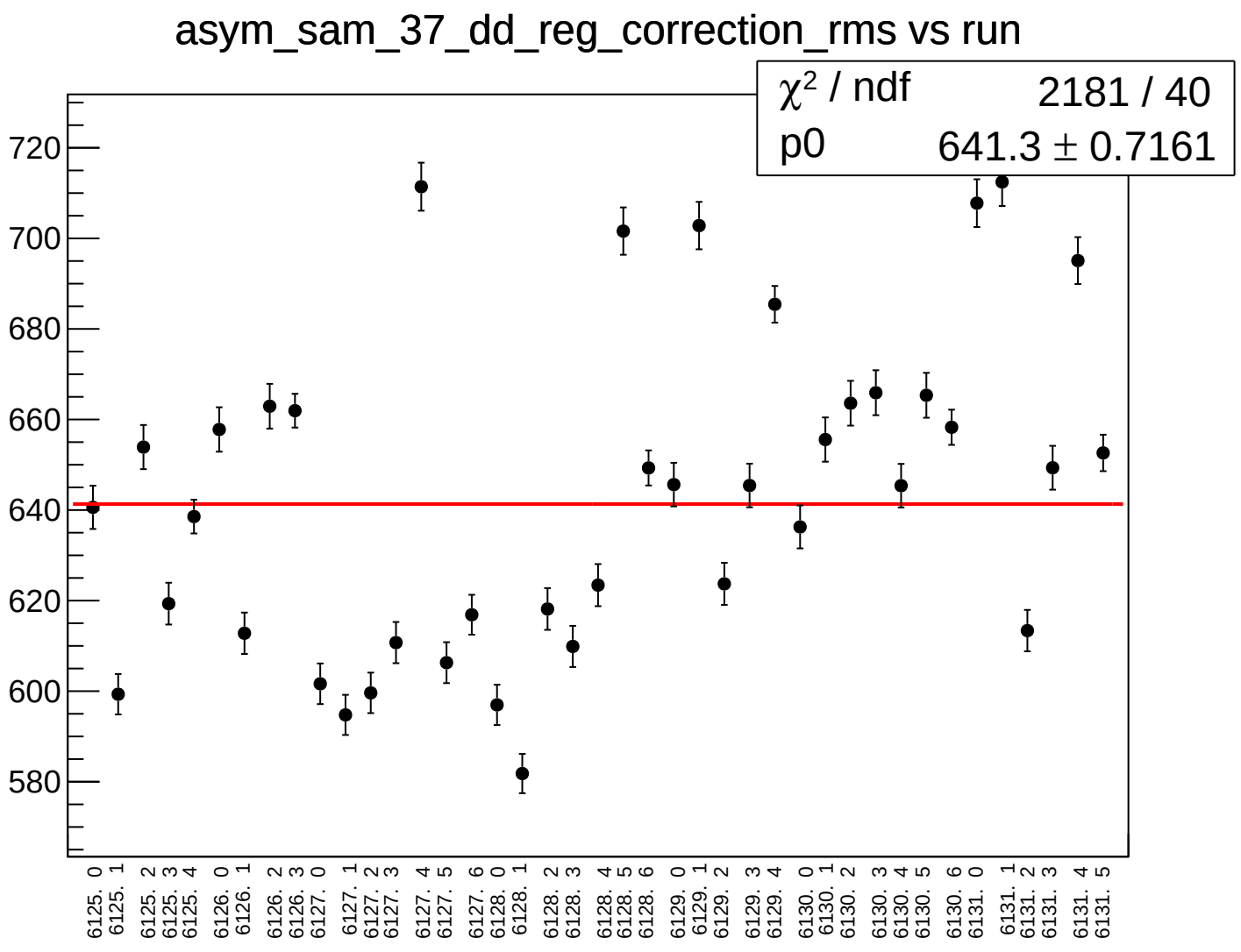

reg_asym_sam_37_dd_mean vs run
χ² / ndf 42.7 / 40
p0 137.6 ± 92.67
2500
2000
1500
1000
500
0
−500
−1000
−1500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 9.818
Std Dev 0
2
1
0
−1
−2

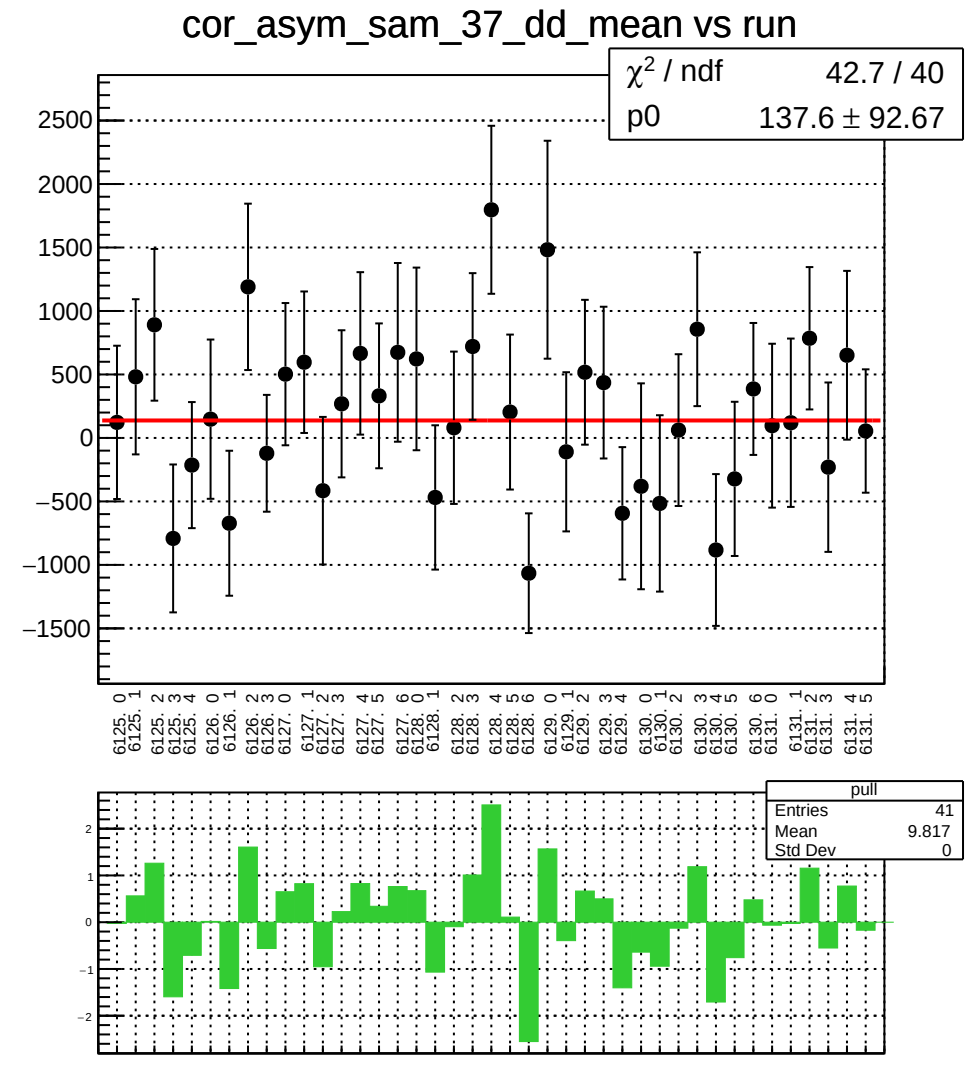

pull1D
Entries 41
Mean 0.04746
Std Dev 1.019
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

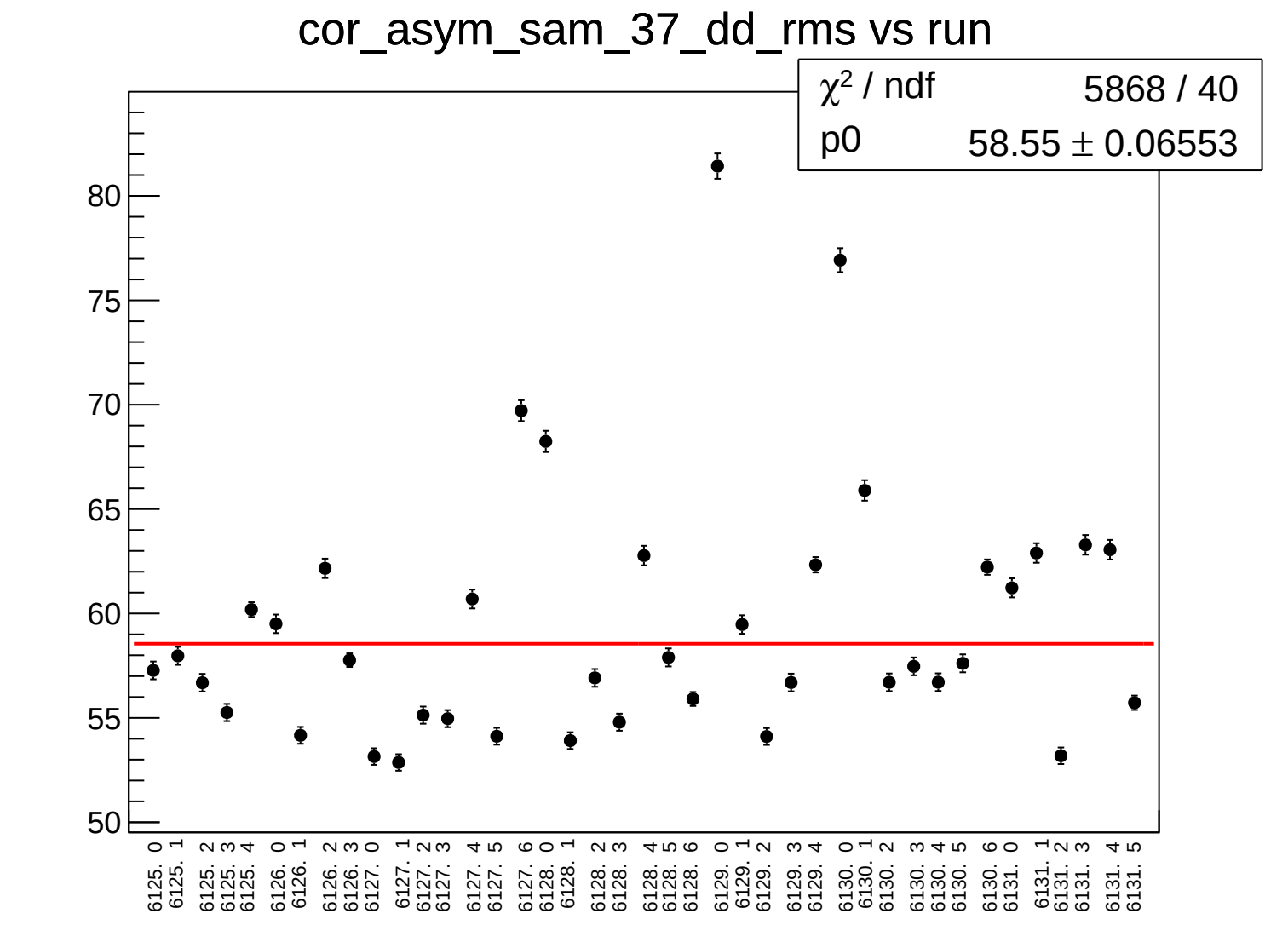

reg_asym_sam_37_dd_rms vs run
χ² / ndf 5868 / 40
p0 58.55 ± 0.06553
80
75
70
65
60
55
50
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

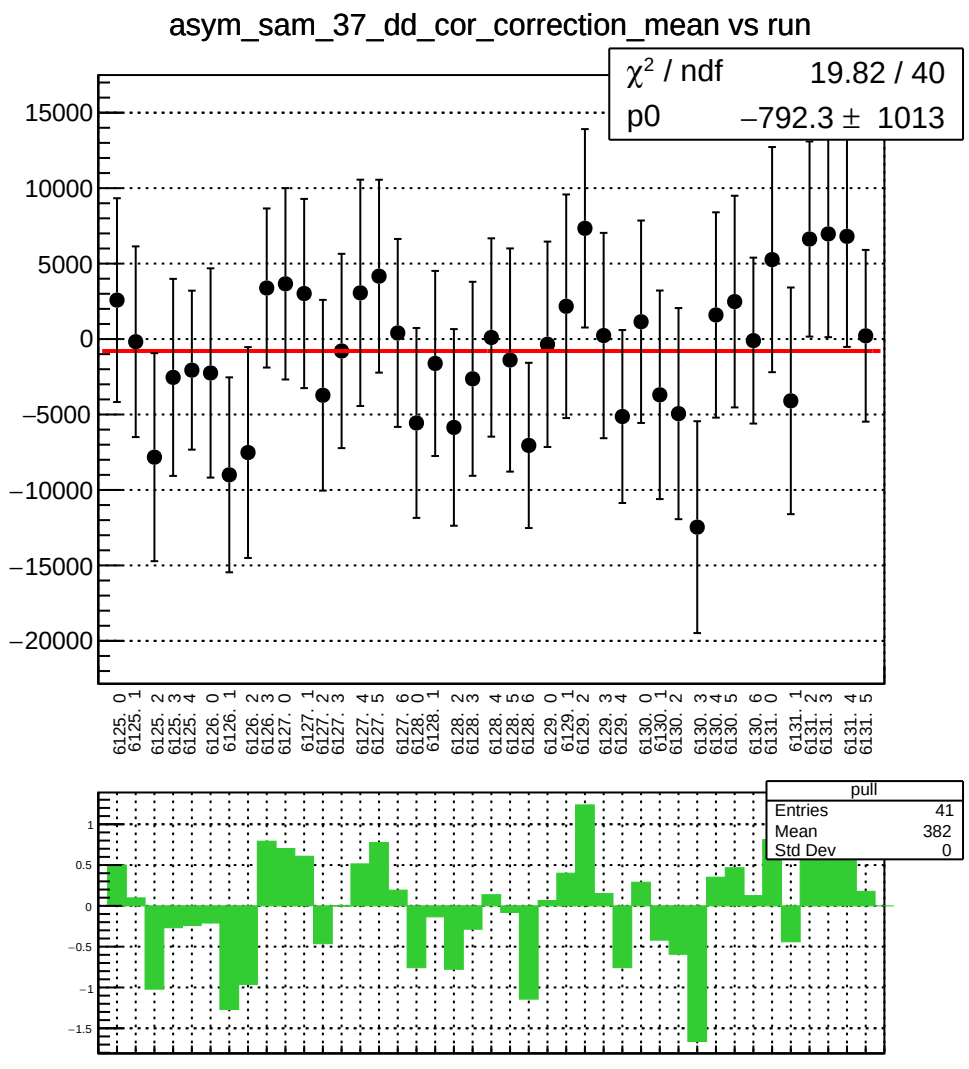

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 19.82 / 40
p0 −792.3 ± 1013
15000
10000
5000
0
−5000
−10000
−15000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 382
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

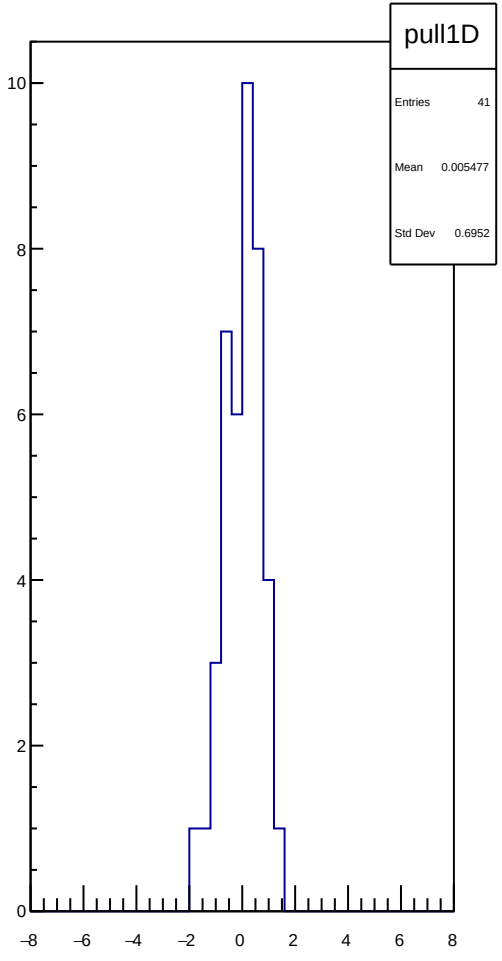

pull1D
Entries 41
Mean 0.005477
Std Dev 0.6952
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

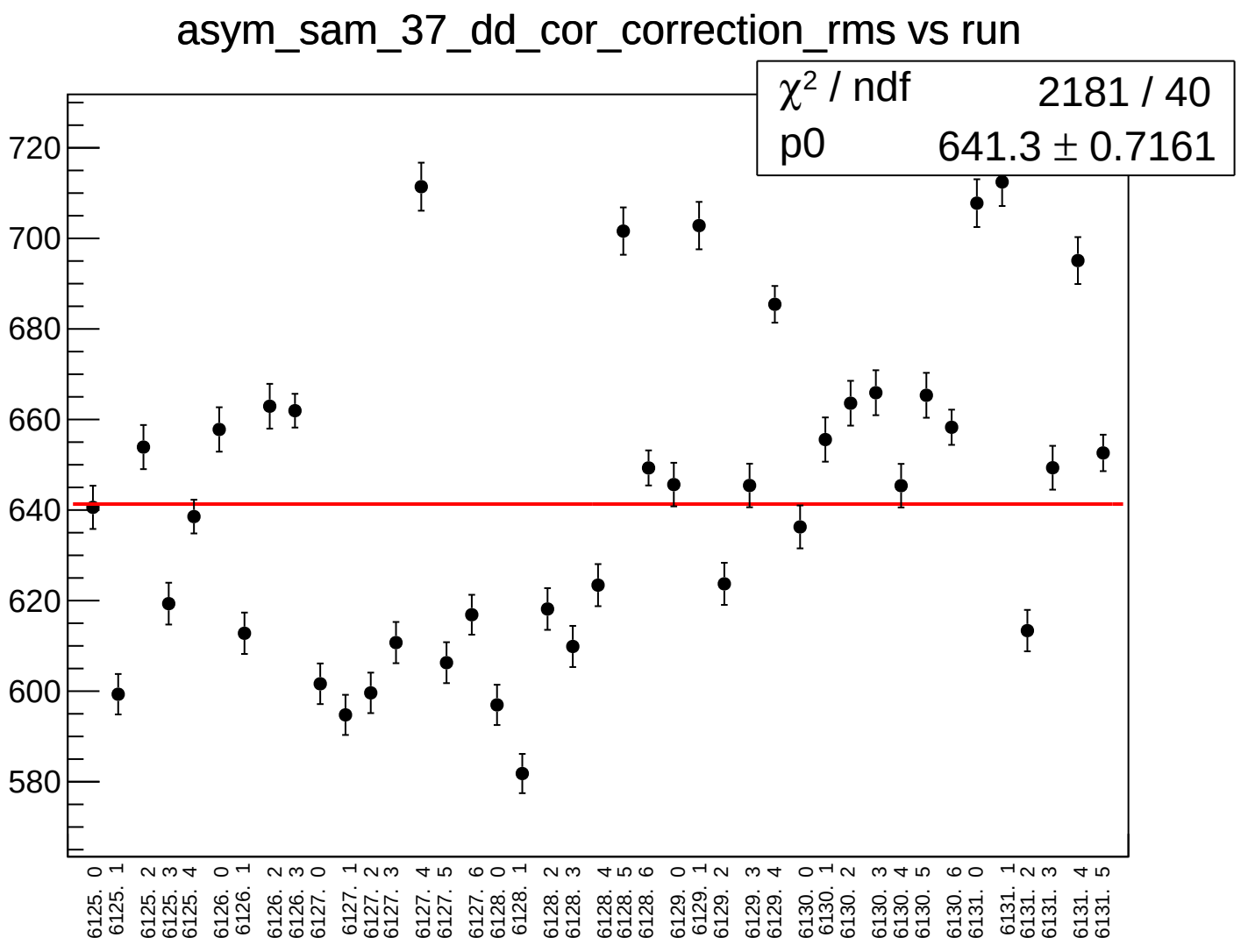

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 2181 / 40
p0 641.3 ± 0.7161
720
700
680
660
640
620
600
580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

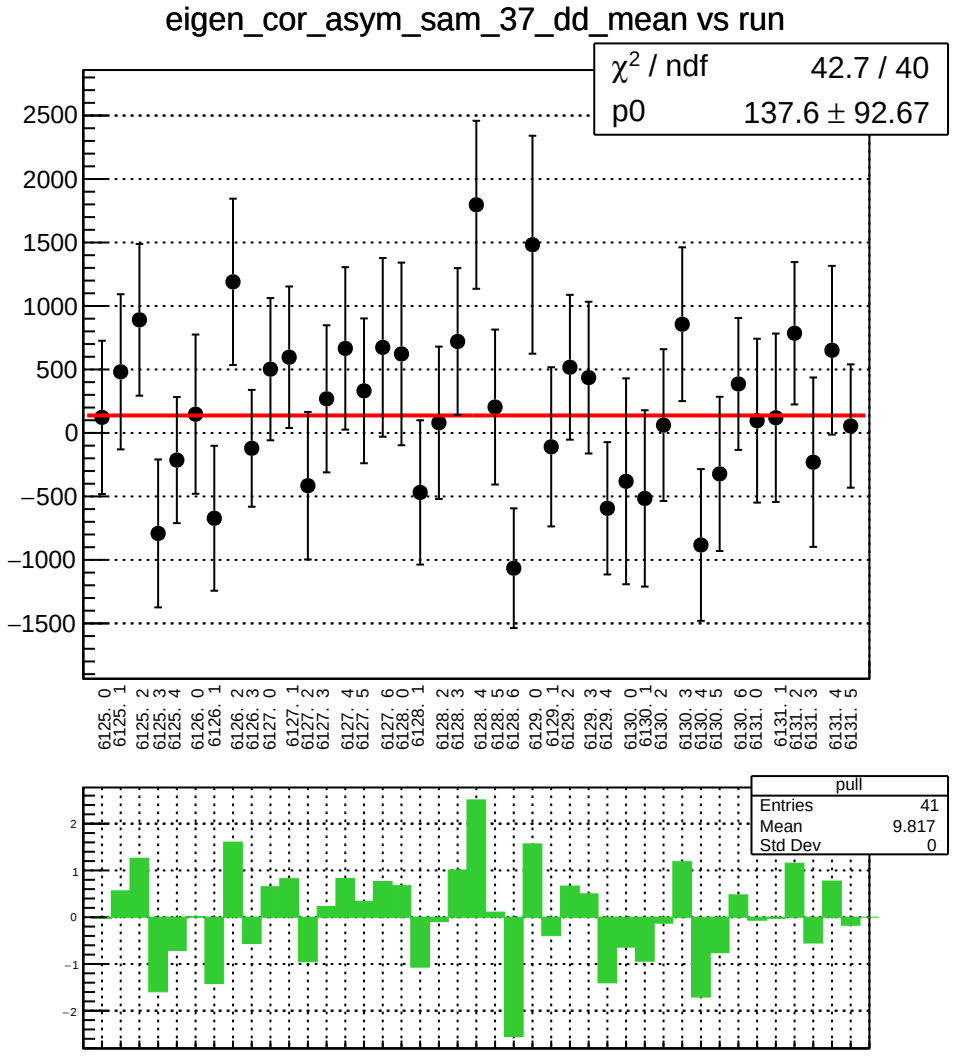

cor_asym_sam_37_dd_mean vs run
χ^2 / ndf 42.7 / 40
p0 137.6 ± 92.67
2500
2000
1500
1000
500
0
−500
−1000
−1500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 9.817
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.04746
Std Dev 1.019
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

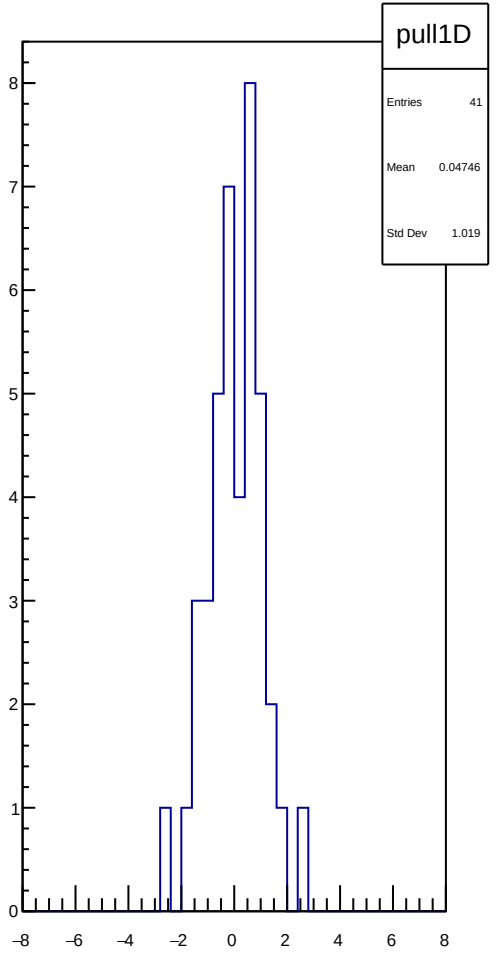

cor_asym_sam_37_dd_rms vs run
χ² / ndf 5868 / 40
p0 58.55 ± 0.06553
80
75
70
65
60
55
50
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

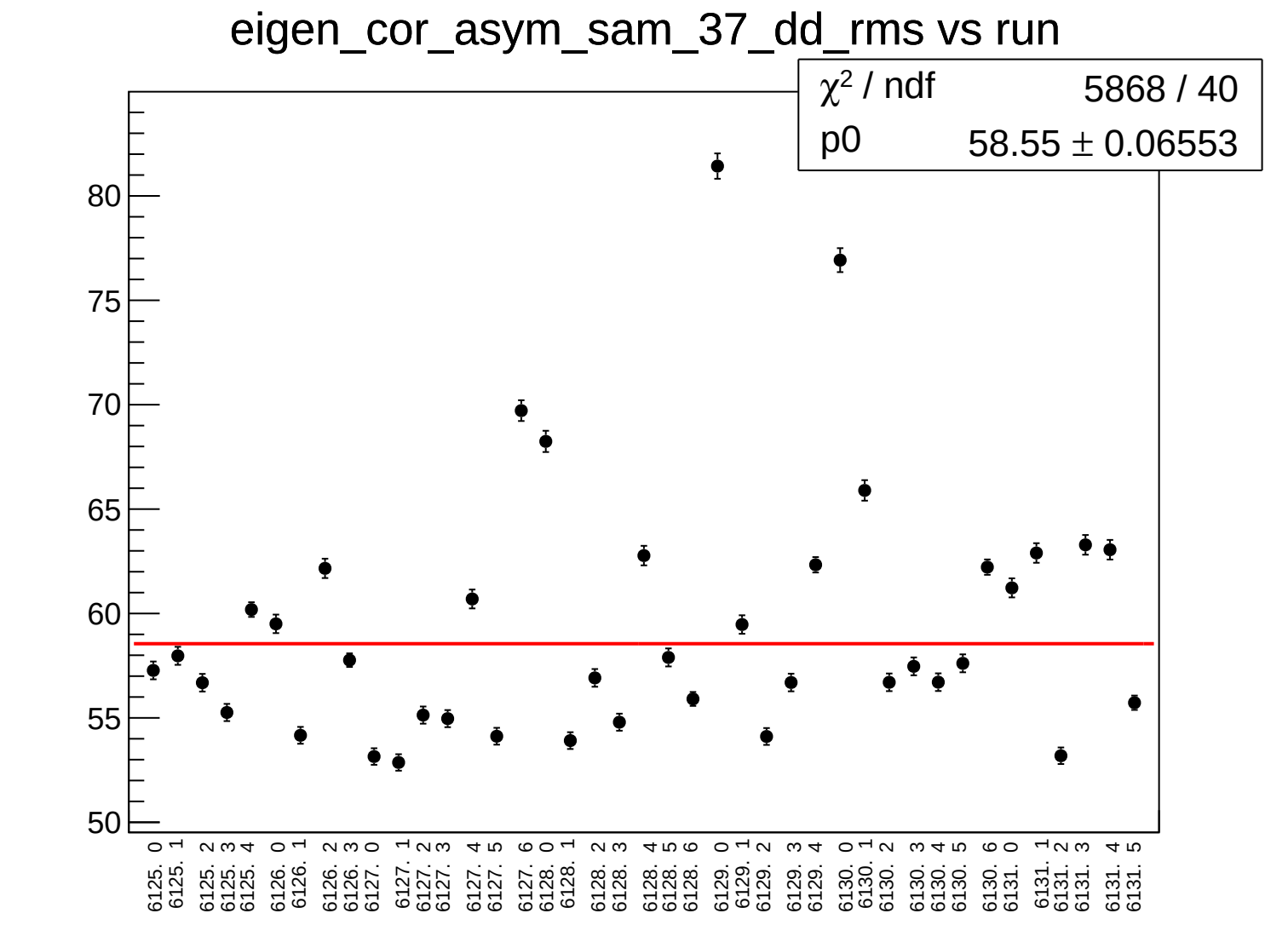

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 19.82 / 40
p0 −792.3 ± 1013
15000
10000
5000
0
−5000
−10000
−15000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 382
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

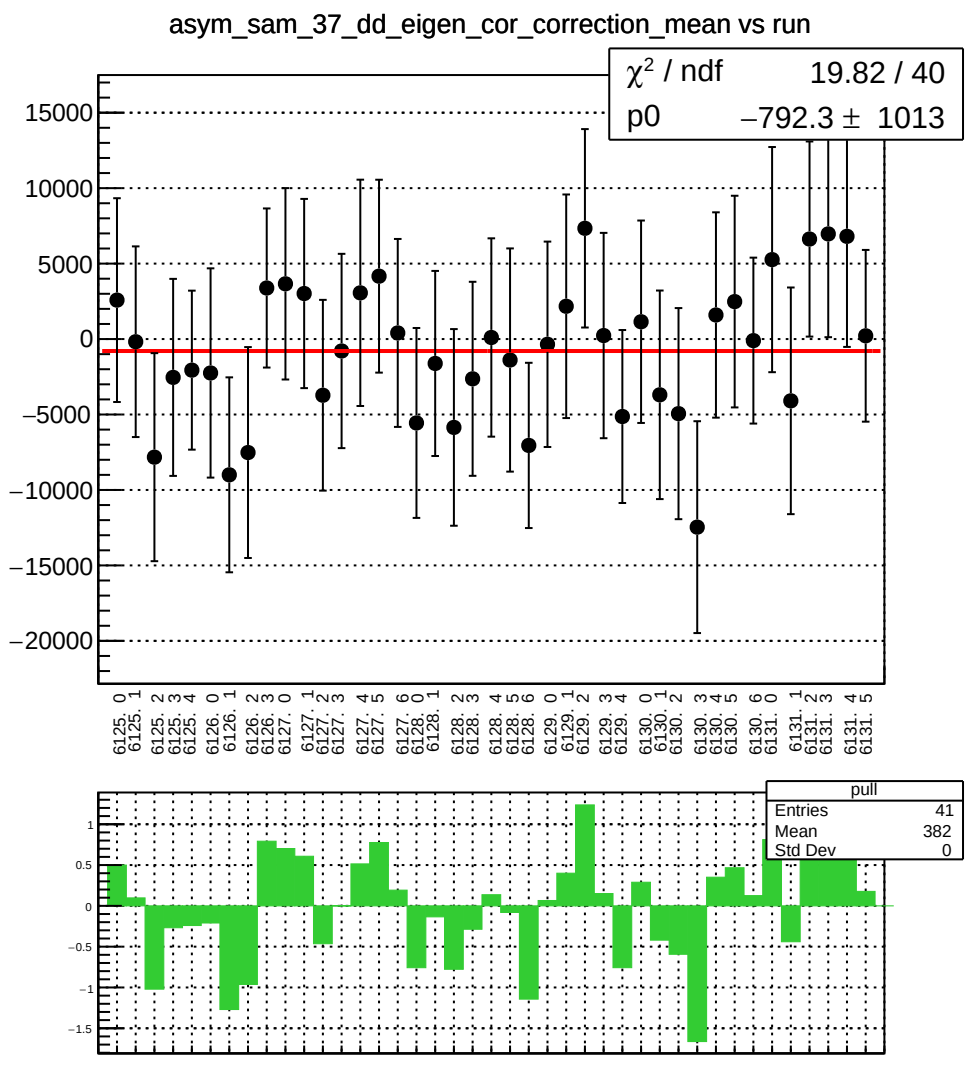

pull1D
Entries 41
Mean 0.005477
Std Dev 0.6952
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

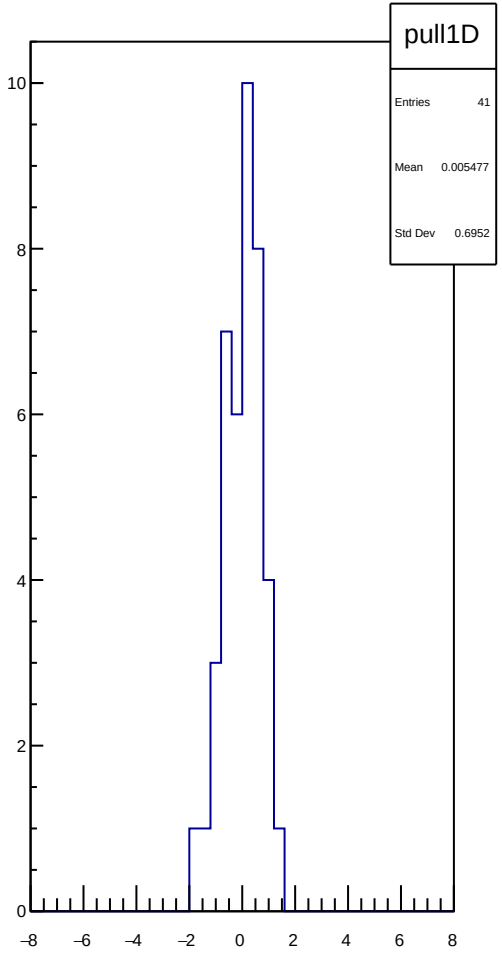

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 2181 / 40
p0 641.3 ± 0.7161
720
700
680
660
640
620
600
580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

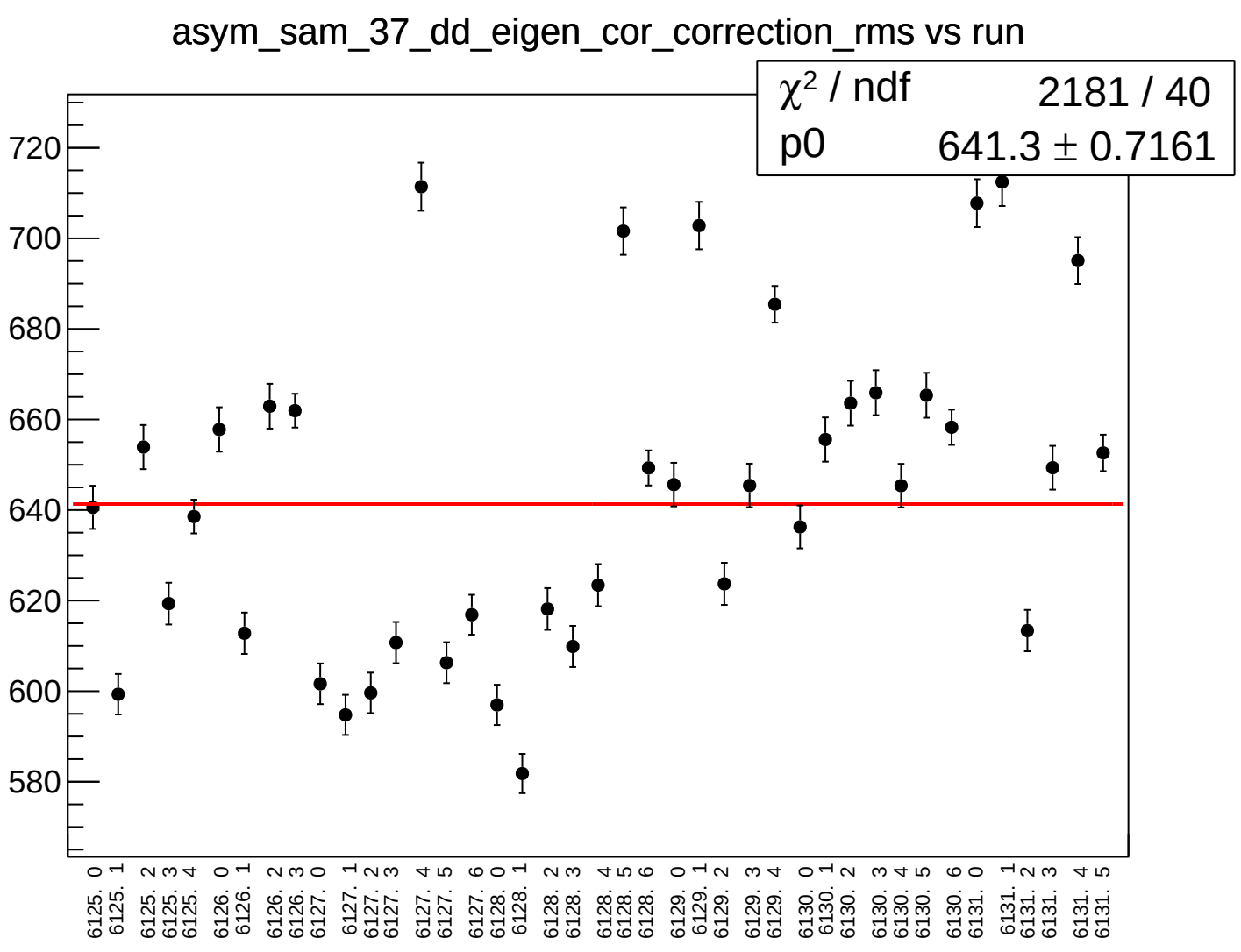

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 42.7 / 40
p0 137.6 ± 92.67
2500
2000
1500
1000
500
0
−500
−1000
−1500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 9.817
Std Dev 0
2
1
0
−1
−2

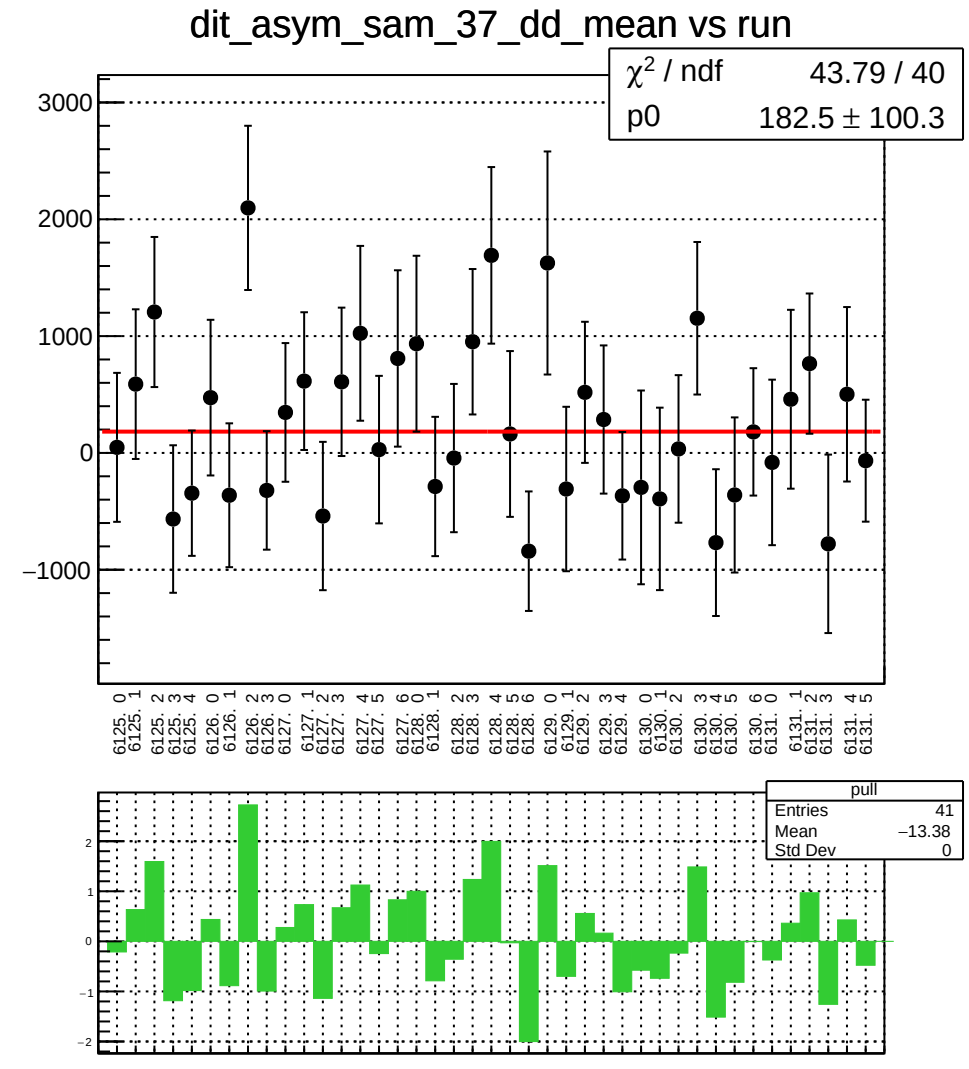

pull1D
Entries 41
Mean 0.04746
Std Dev 1.019
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

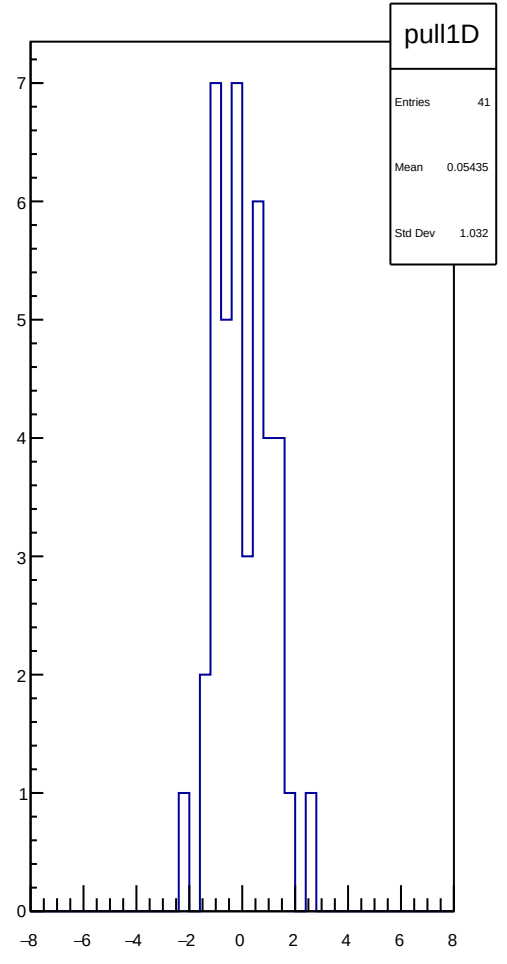

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 5868 / 40
p0 58.55 ± 0.06553
80
75
70
65
60
55
50
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

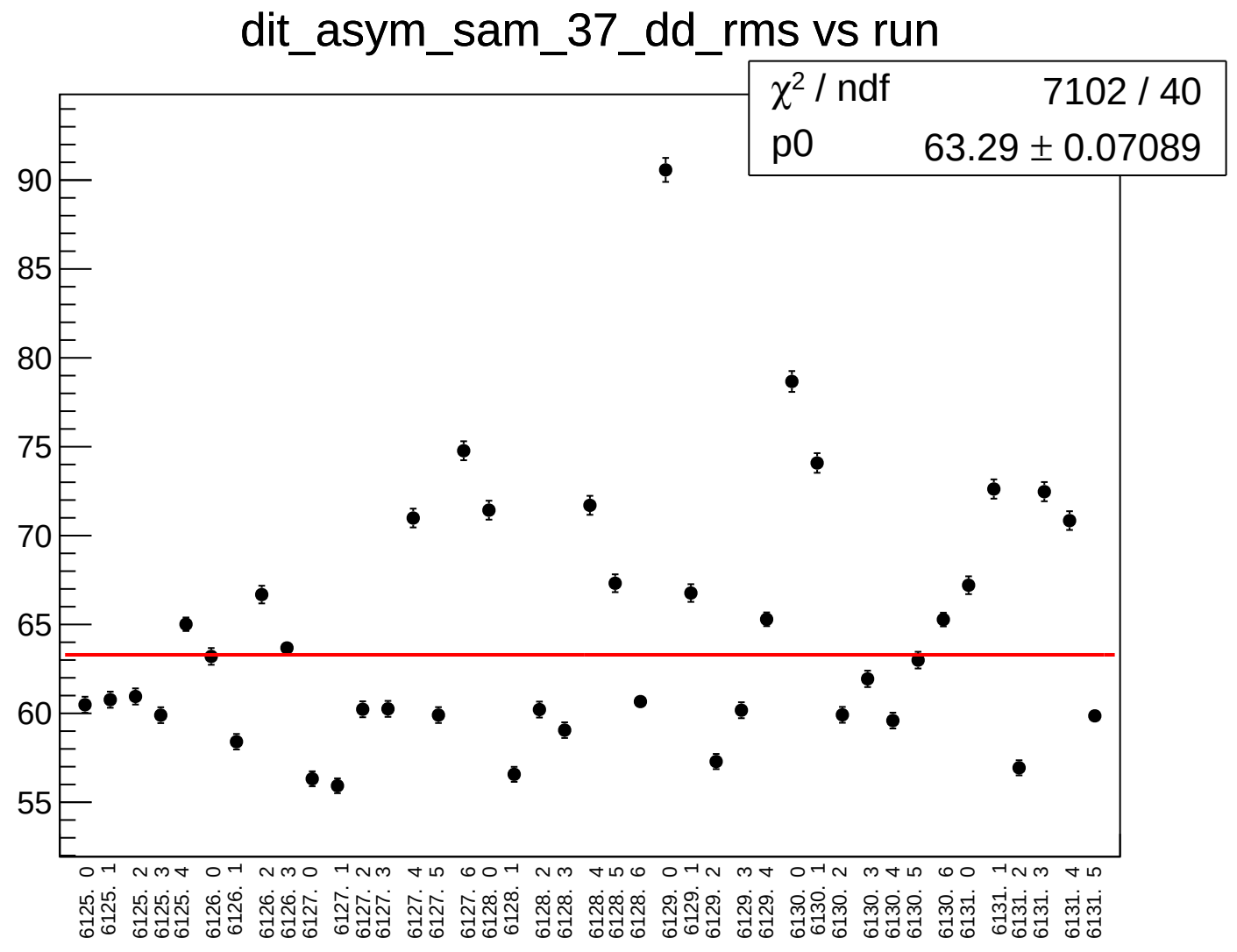

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 19.82 / 40
p0 −792.3 ± 1013
15000
10000
5000
0
−5000
−10000
−15000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 382
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

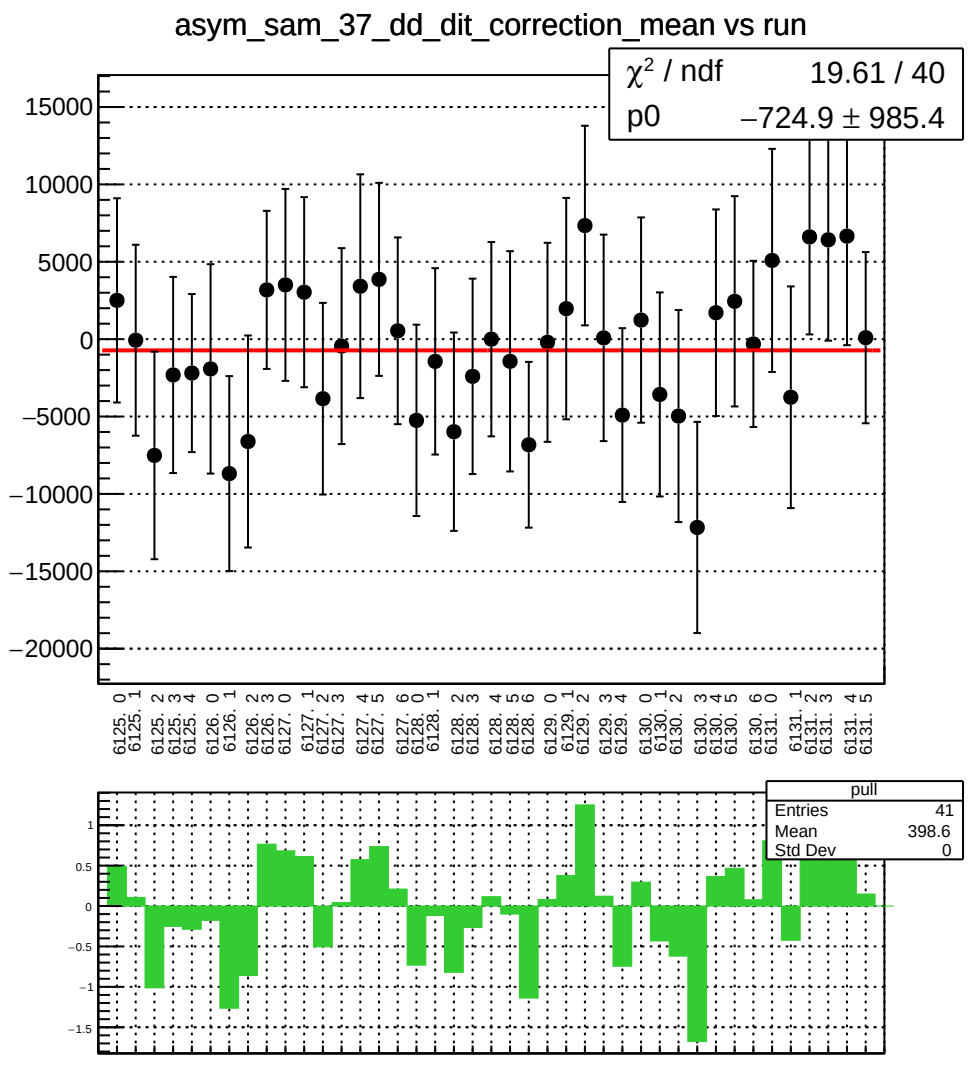

pull1D
Entries 41
Mean 0.005477
Std Dev 0.6952
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

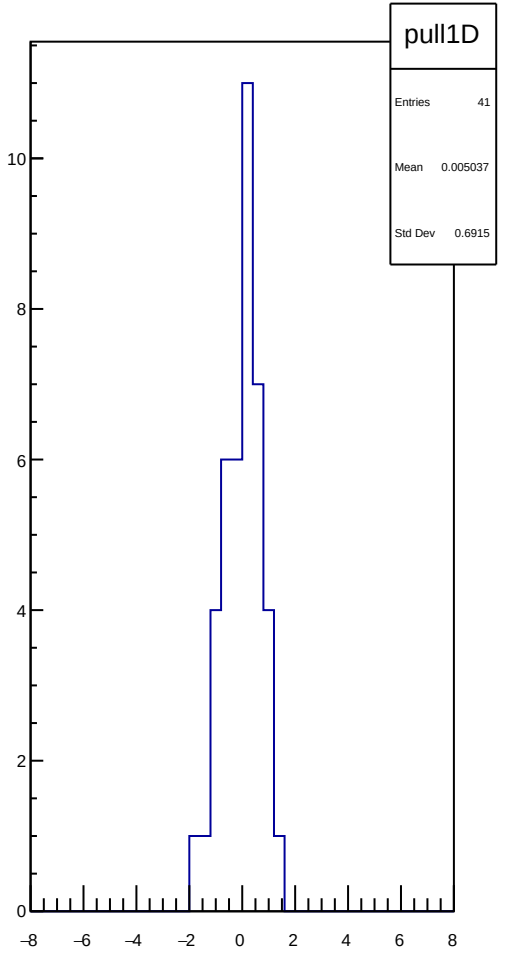

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 2181 / 40
p0 641.3 ± 0.7161
720
700
680
660
640
620
600
580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

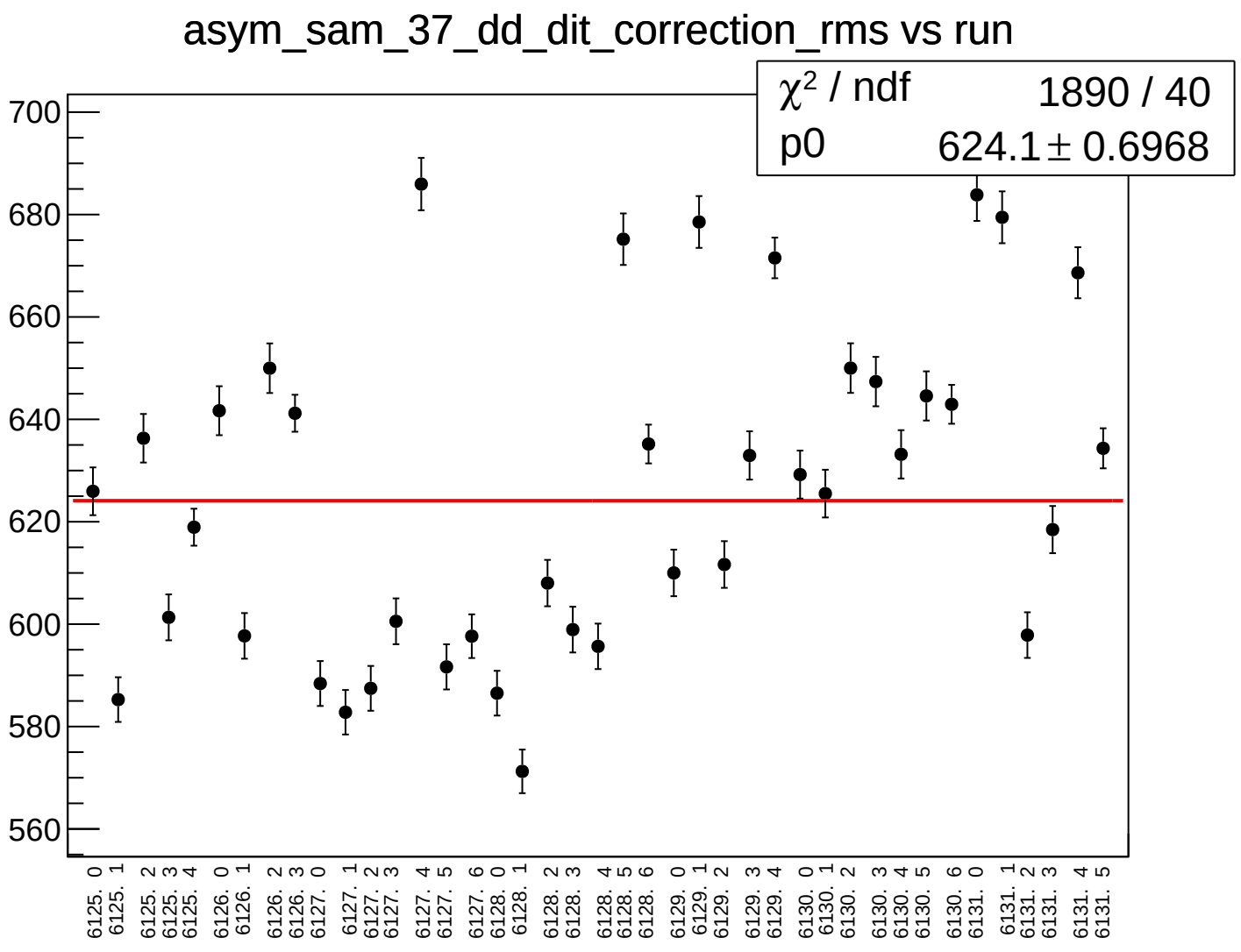

dit_asym_sam_37_dd_mean vs run
χ² / ndf 43.79 / 40
p0 182.5 ± 100.3
3000
2000
1000
0
−1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −13.38
Std Dev 0
2
1
0
−1
−2

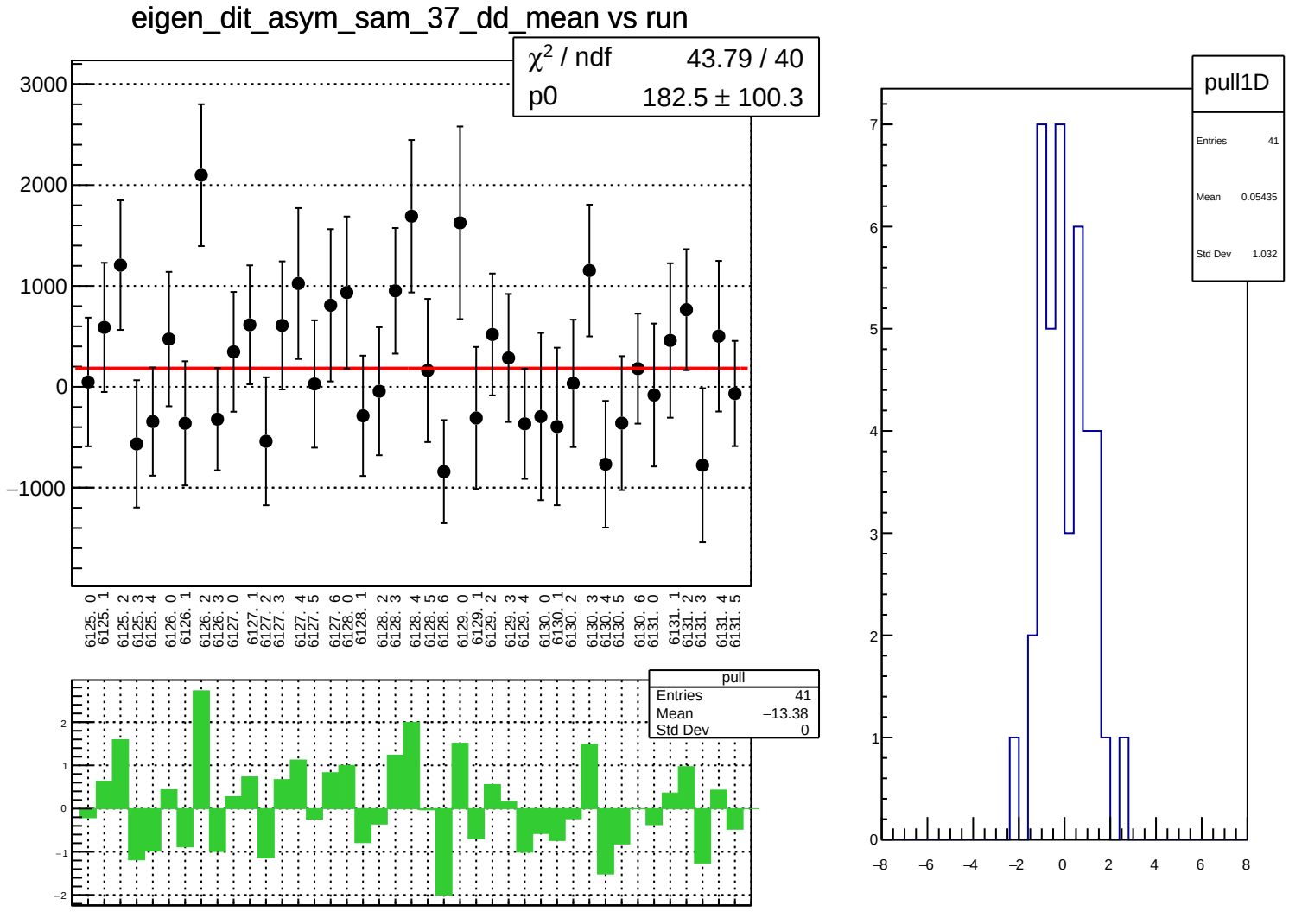

pull1D
Entries 41
Mean 0.05435
Std Dev 1.032
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

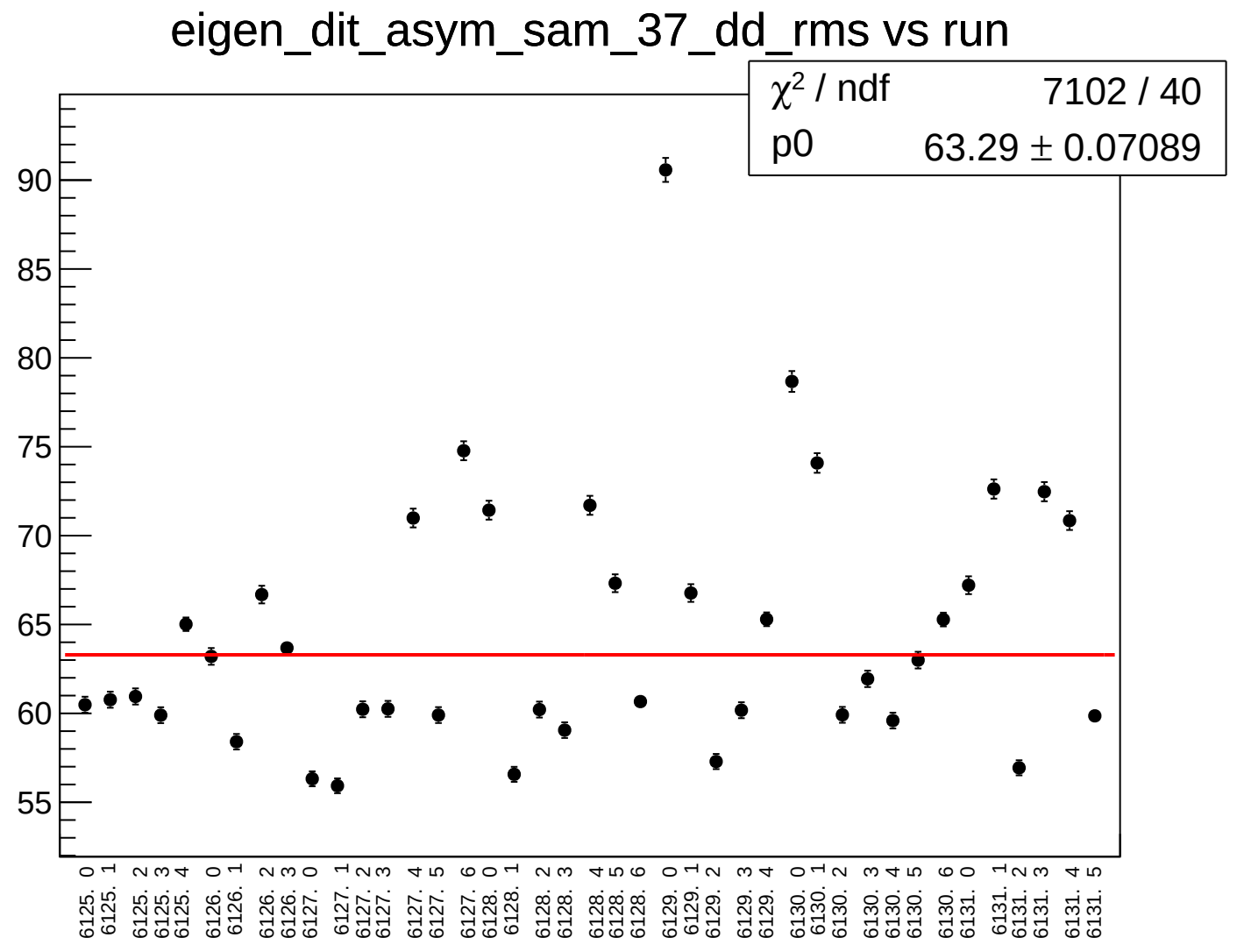

dit_asym_sam_37_dd_rms vs run
χ² / ndf 7102 / 40
p0 63.29 ± 0.07089
90
85
80
75
70
65
60
55
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 19.61 / 40
p0 −724.9 ± 985.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 398.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.005037
Std Dev 0.6915
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 1890 / 40
p0 624.1 ± 0.6968
700
680
660
640
620
600
580
560
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 43.79 / 40
p0 182.5 ± 100.3
3000
2000
1000
0
−1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −13.38
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.05435
Std Dev 1.032
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 7102 / 40
p0 63.29 ± 0.07089
90
85
80
75
70
65
60
55
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
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6127. 6
6128. 0
6128. 1
6128. 2
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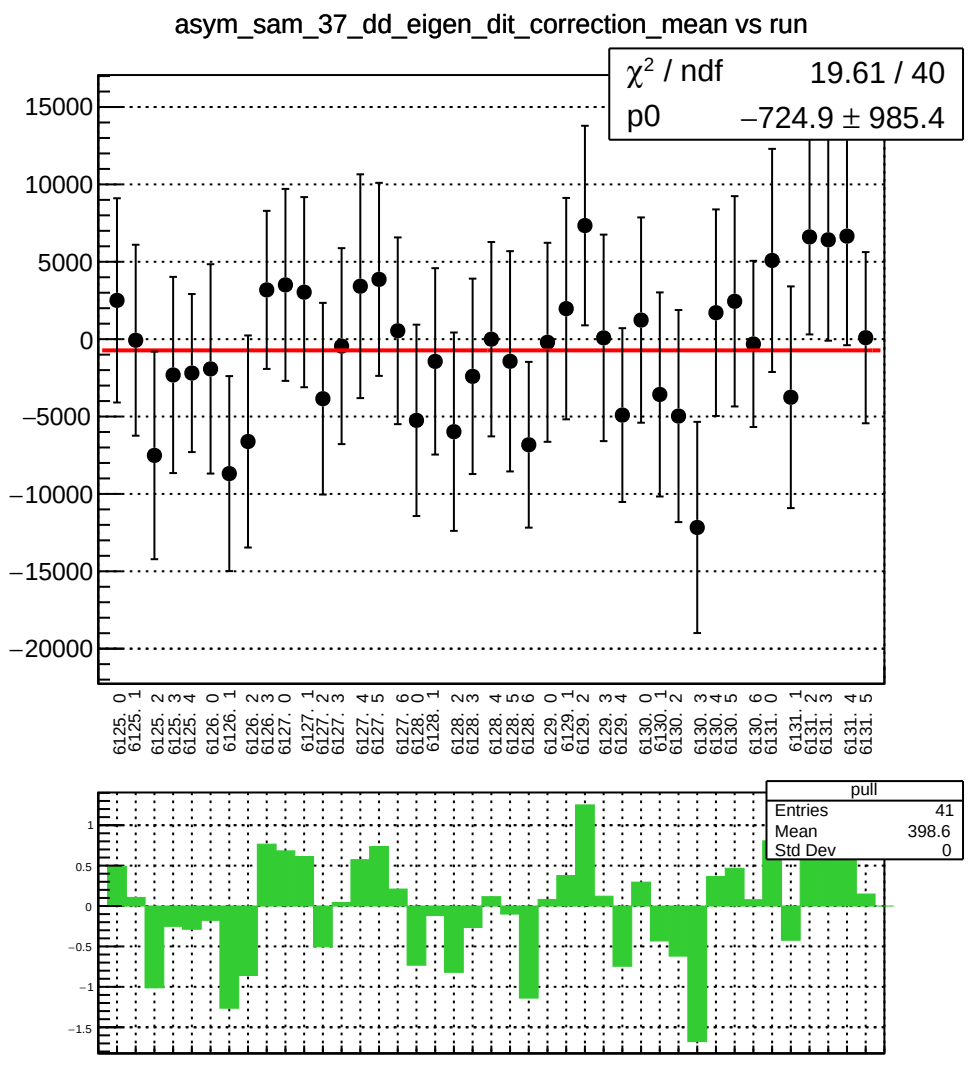
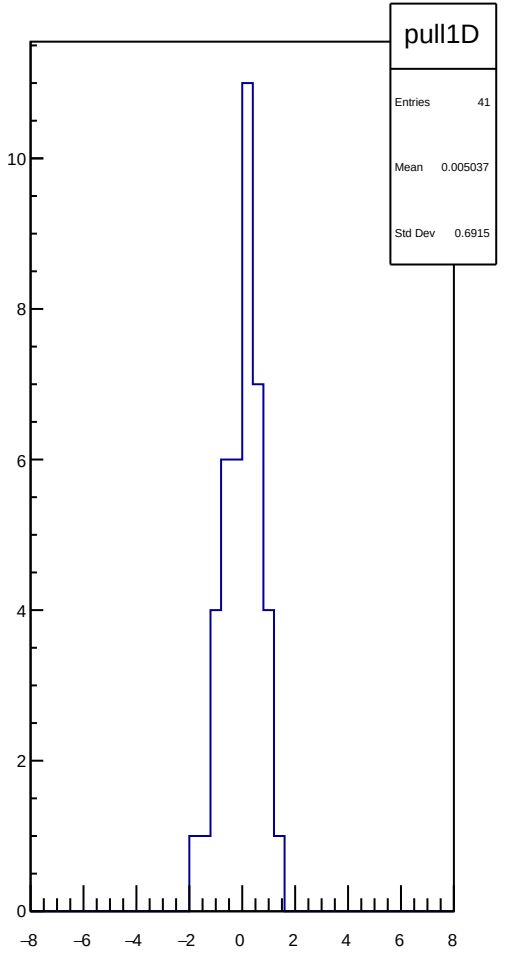
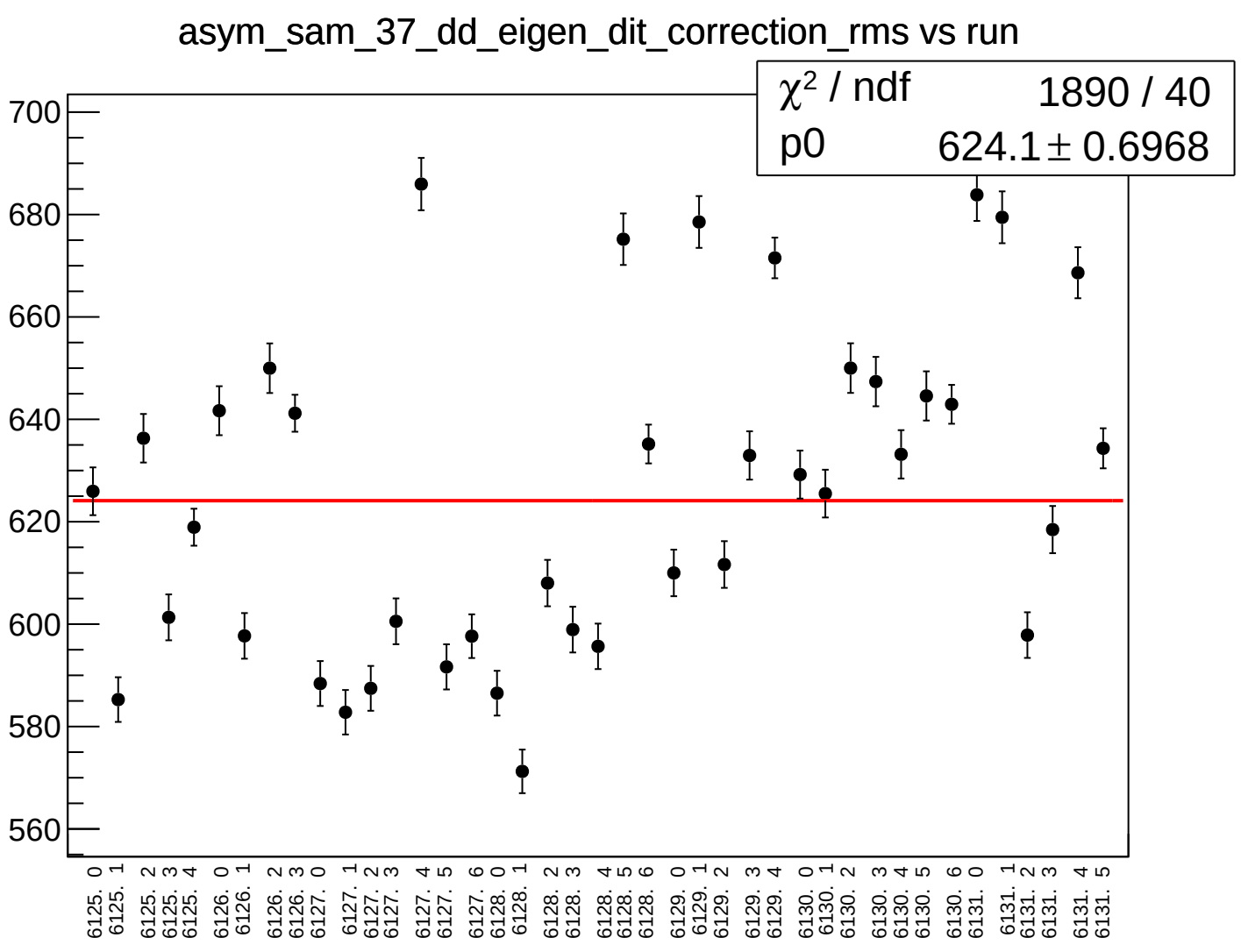
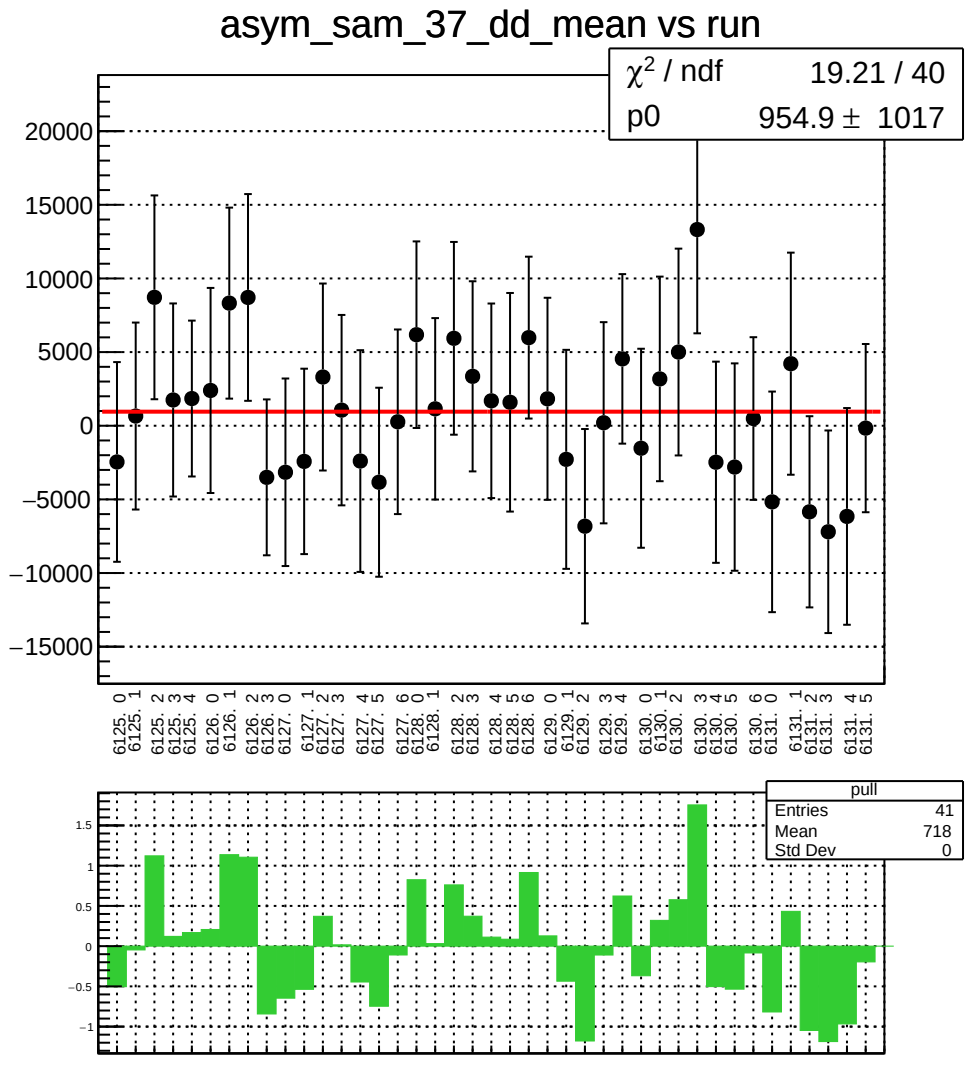
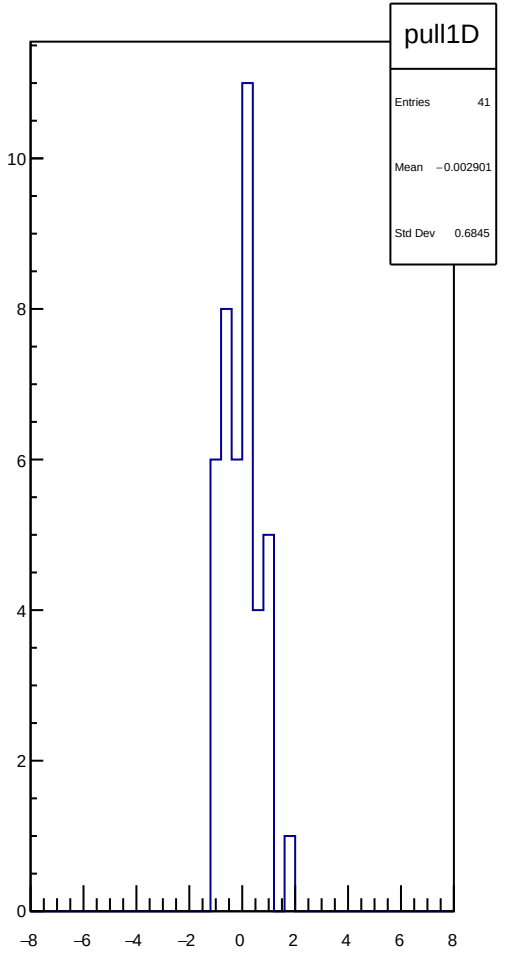
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

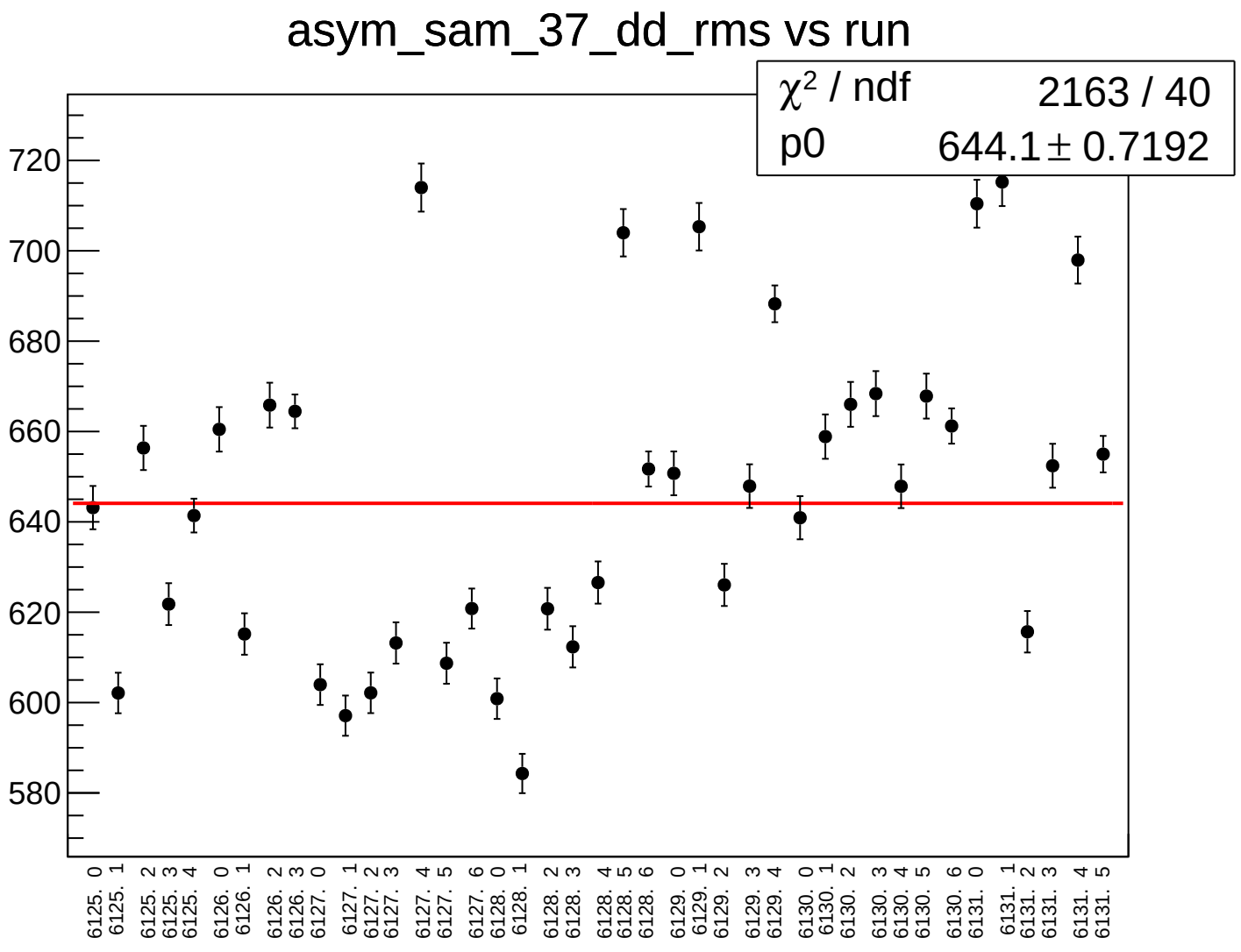

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 19.61 / 40
p0 −724.9 ± 985.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 398.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

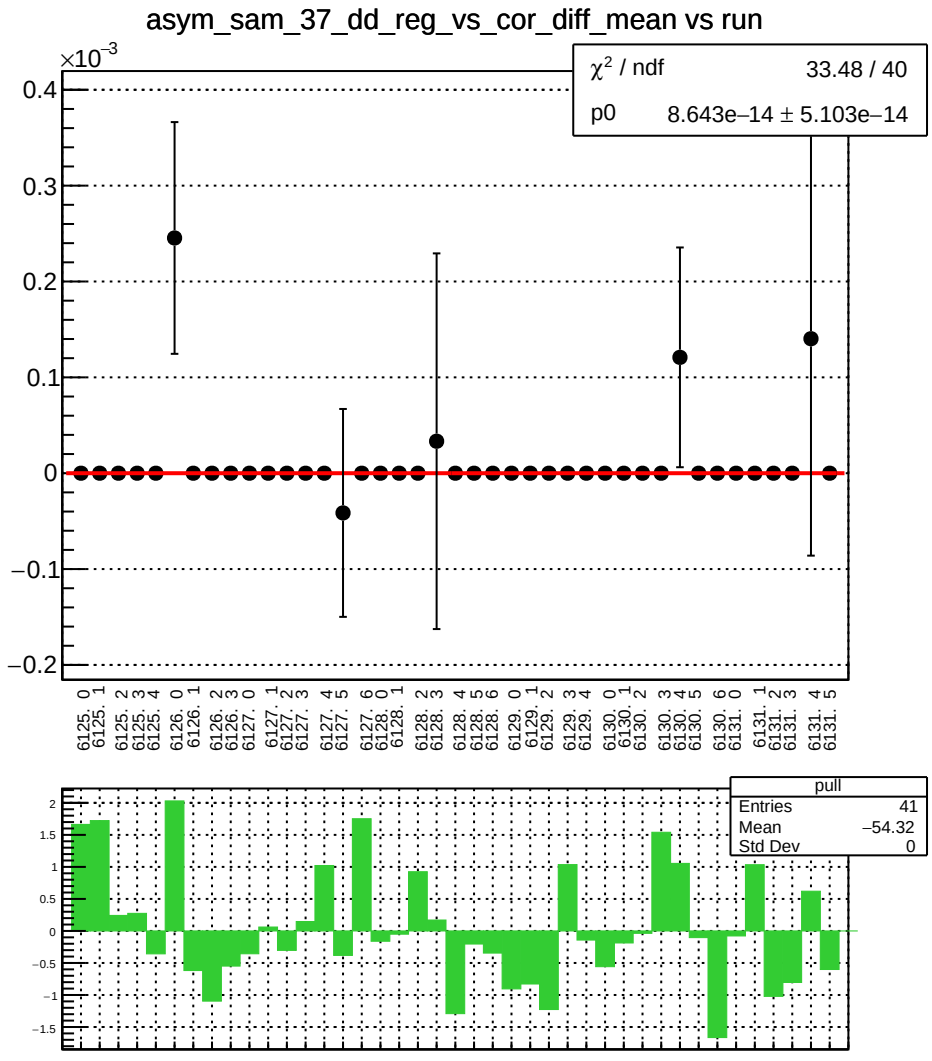

pull1D
Entries 41
Mean 0.005037
Std Dev 0.6915
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

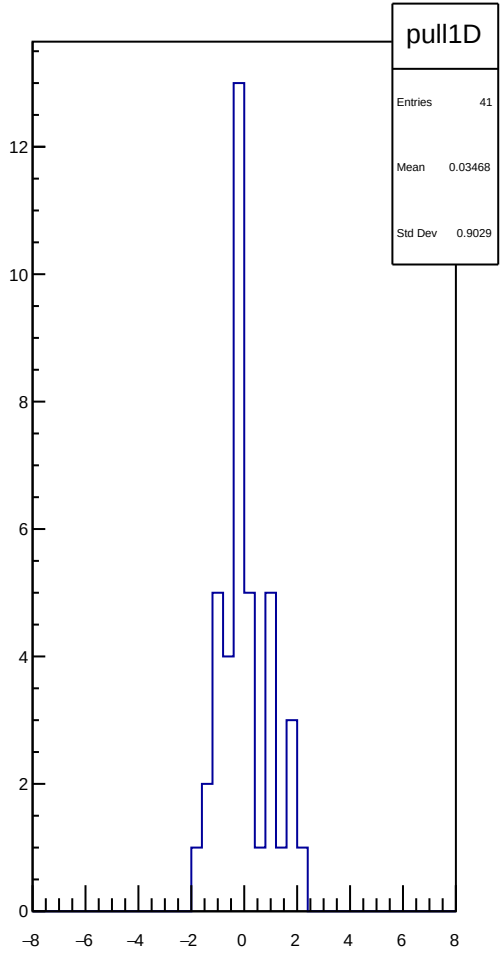

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1890 / 40
p0 624.1 ± 0.6968
700
680
660
640
620
600
580
560
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

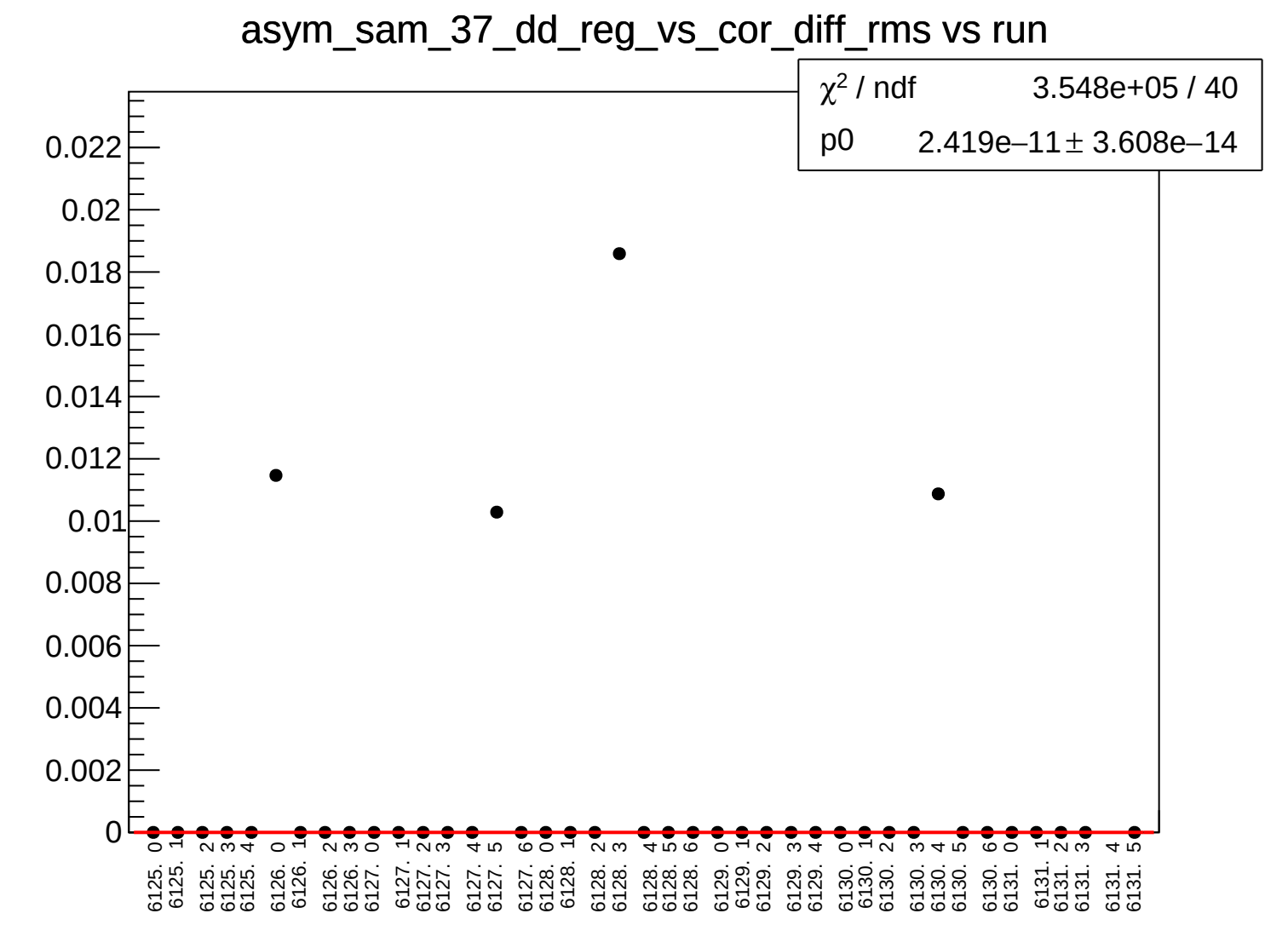

asym_sam_37_dd_mean vs run
χ² / ndf 19.21 / 40
p0 954.9 ± 1017
20000
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 718
Std Dev 0
1.5
1
0.5
0
−0.5
−1

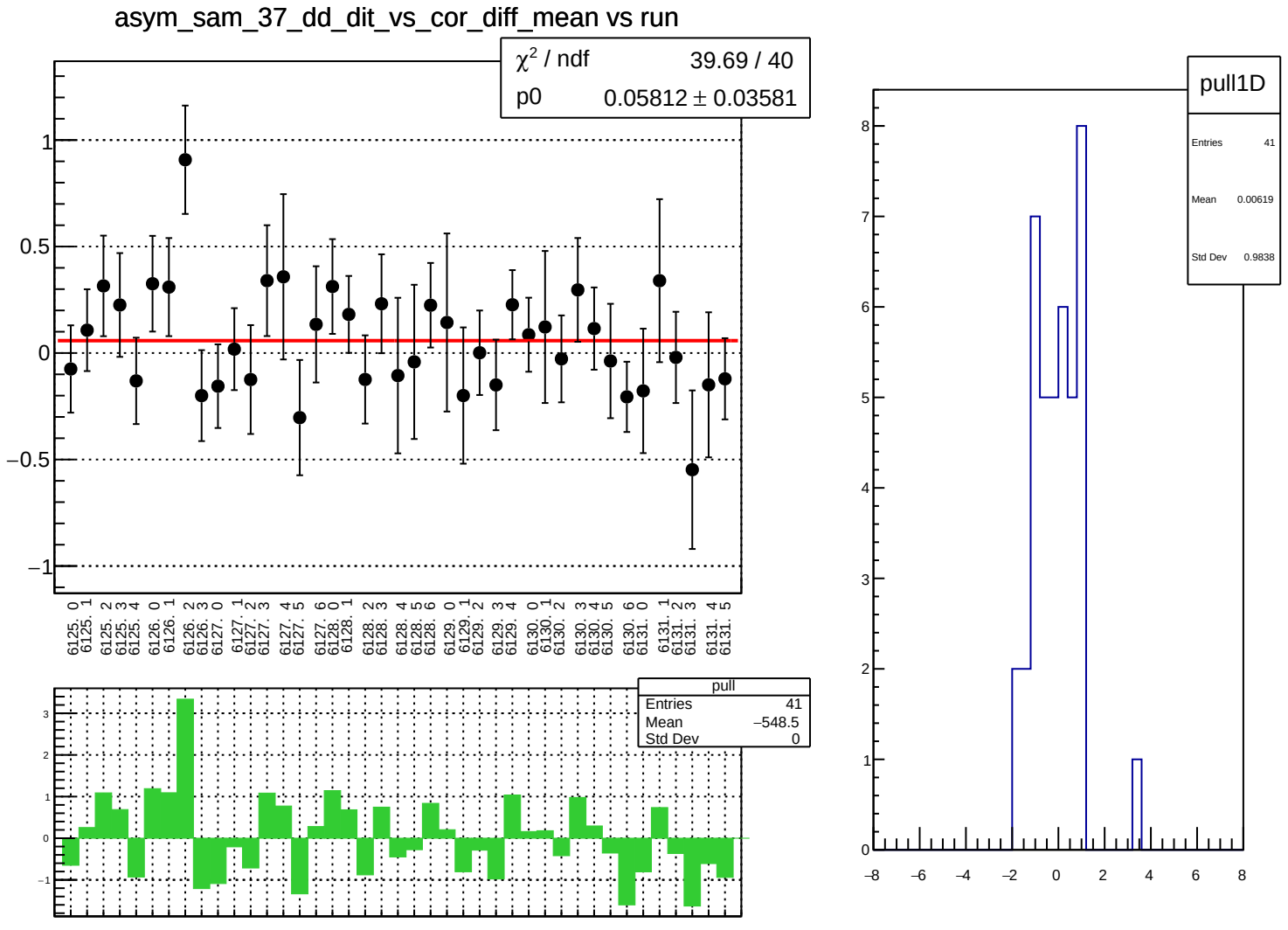

pull1D
Entries 41
Mean −0.002901
Std Dev 0.6845
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

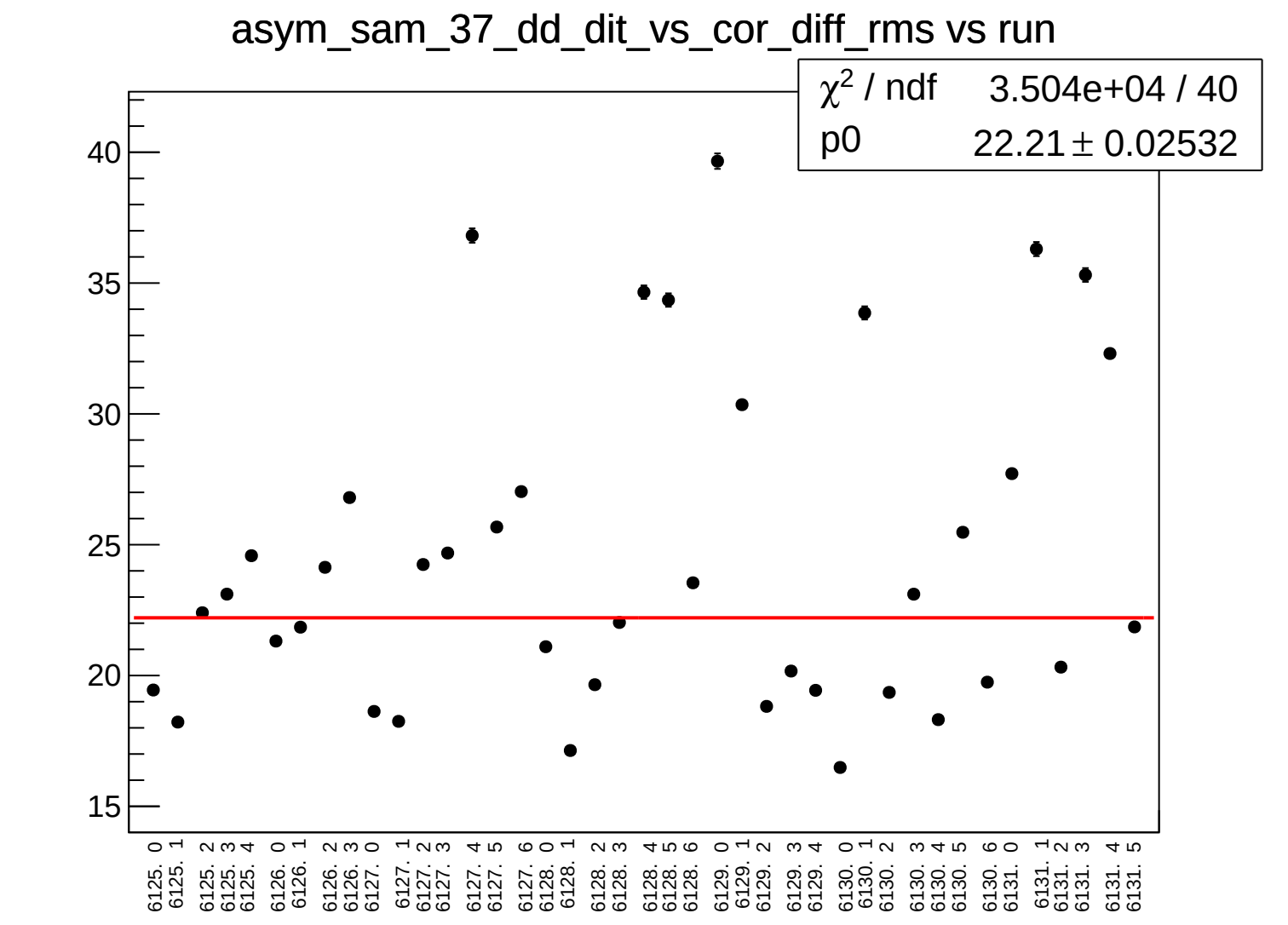

asym_sam_37_dd_rms vs run
χ² / ndf 2163 / 40
p0 644.1 ± 0.7192
720
700
680
660
640
620
600
580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

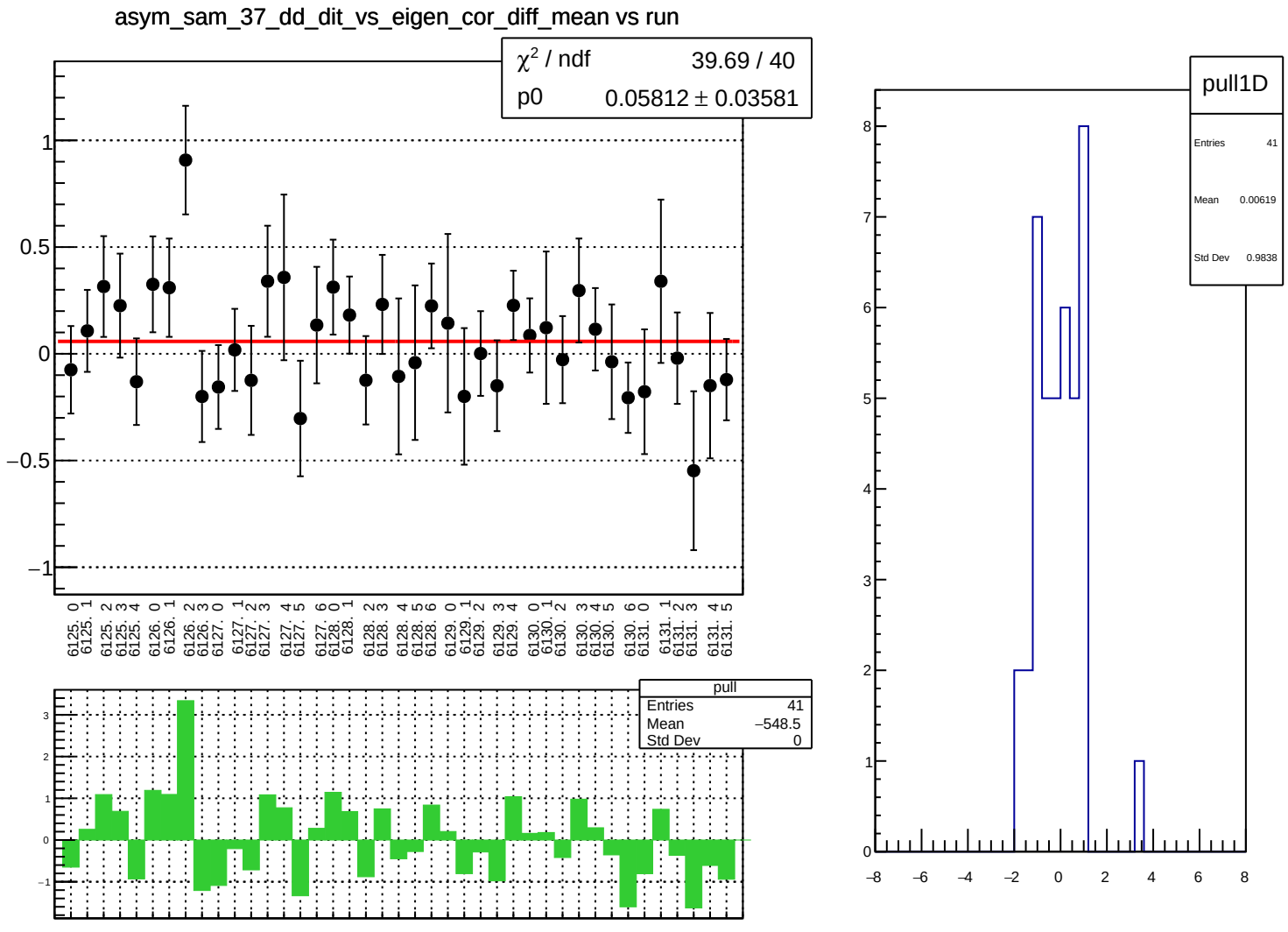

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 33.48 / 40
p0 8.643e−14 ± 5.103e−14
pull
Entries 41
Mean −54.32
Std Dev 0

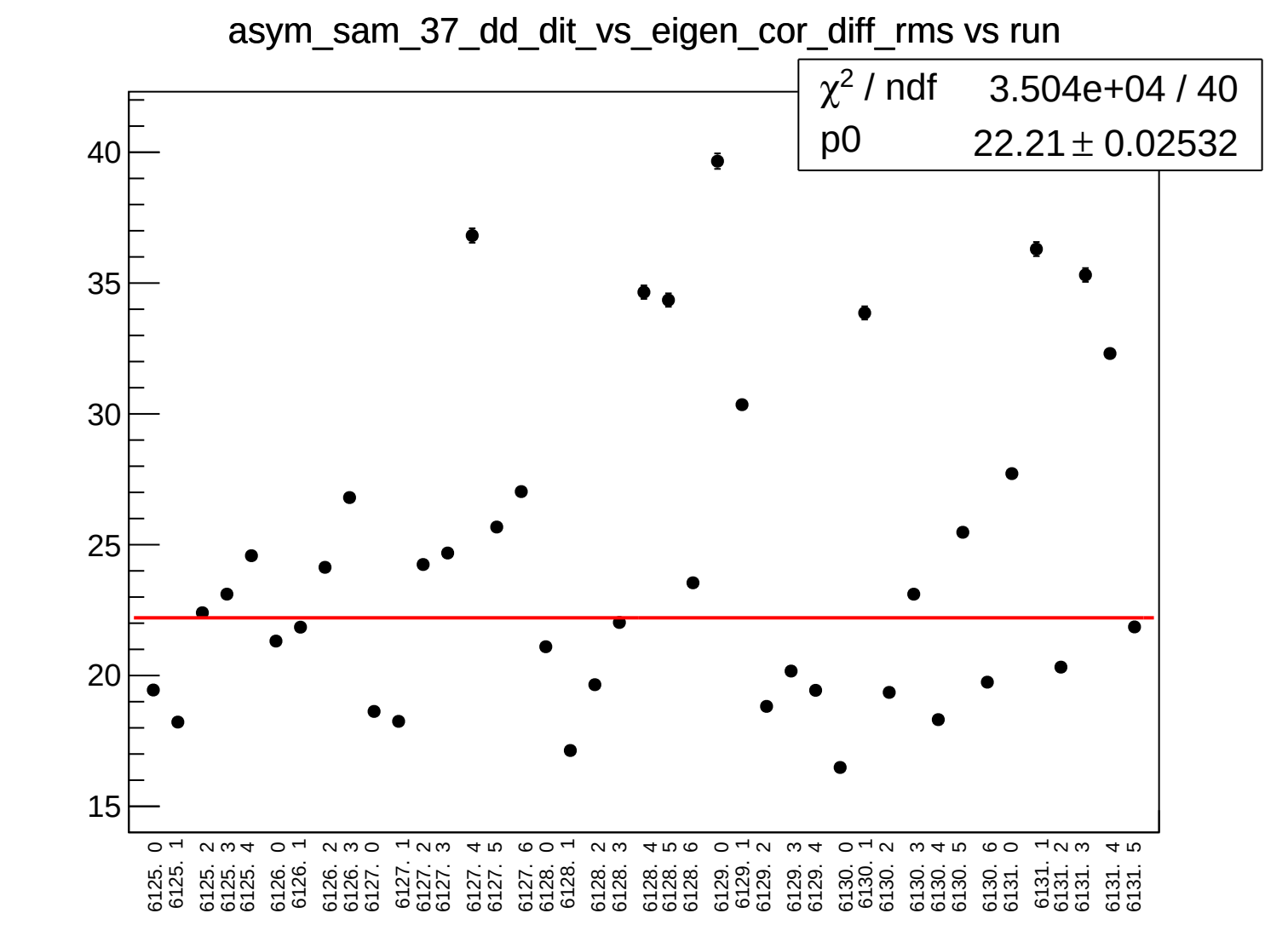

pull1D
Entries 41
Mean 0.03468
Std Dev 0.9029

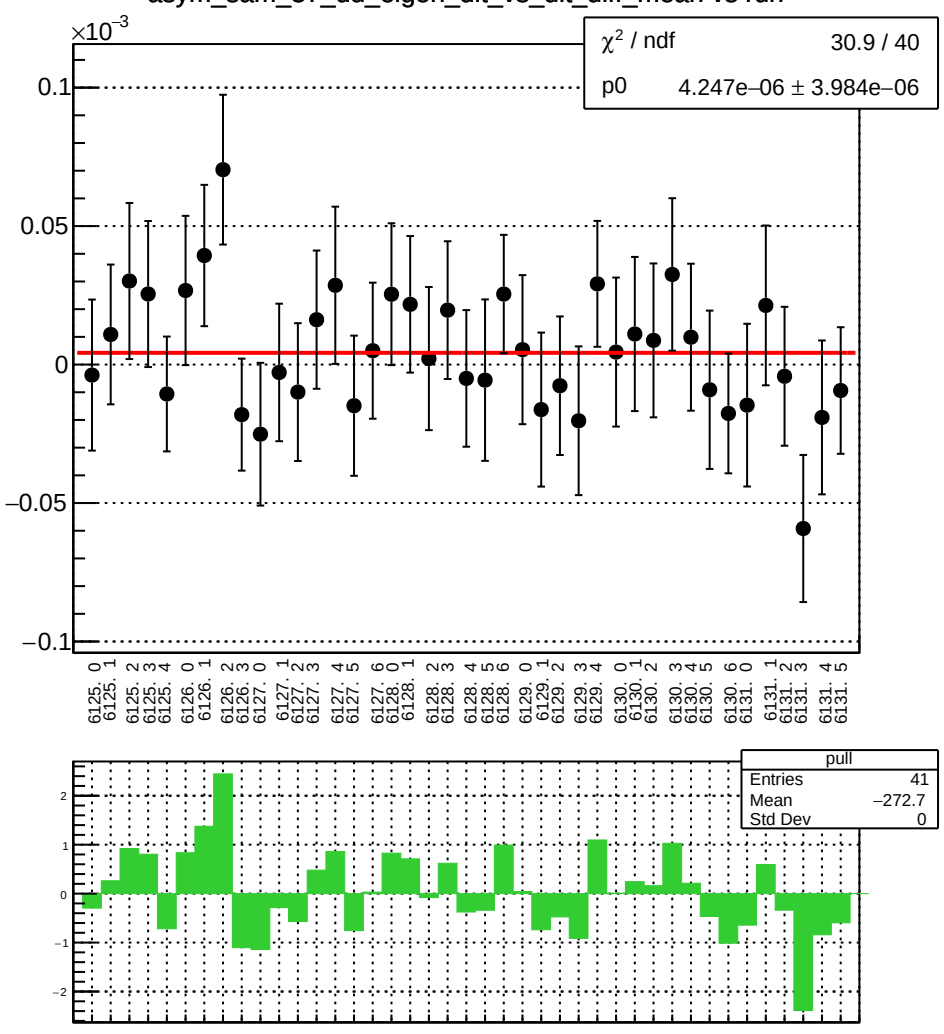

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.548e+05 / 40
p0 2.419e−11 ± 3.608e−14
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

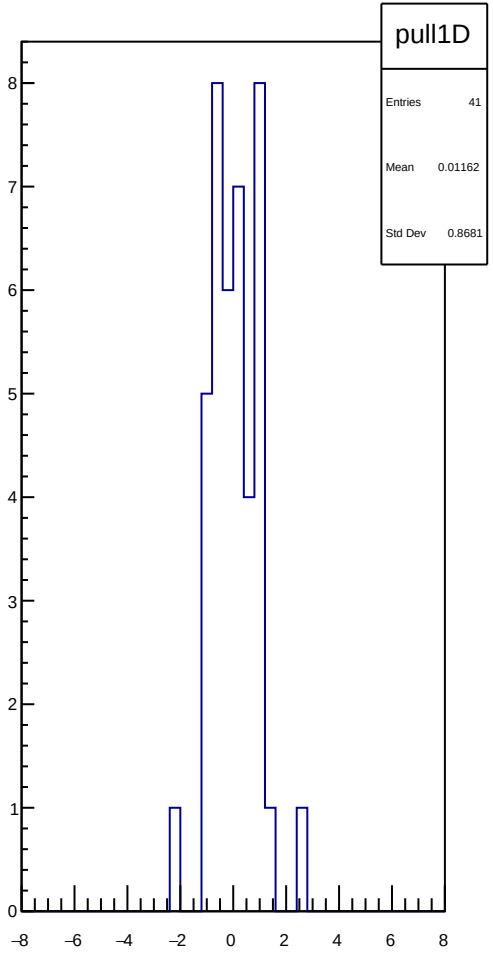

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 39.69 / 40
p0 0.05812 ± 0.03581
pull
Entries 41
Mean −548.5
Std Dev 0
pull1D
Entries 41
Mean 0.00619
Std Dev 0.9838

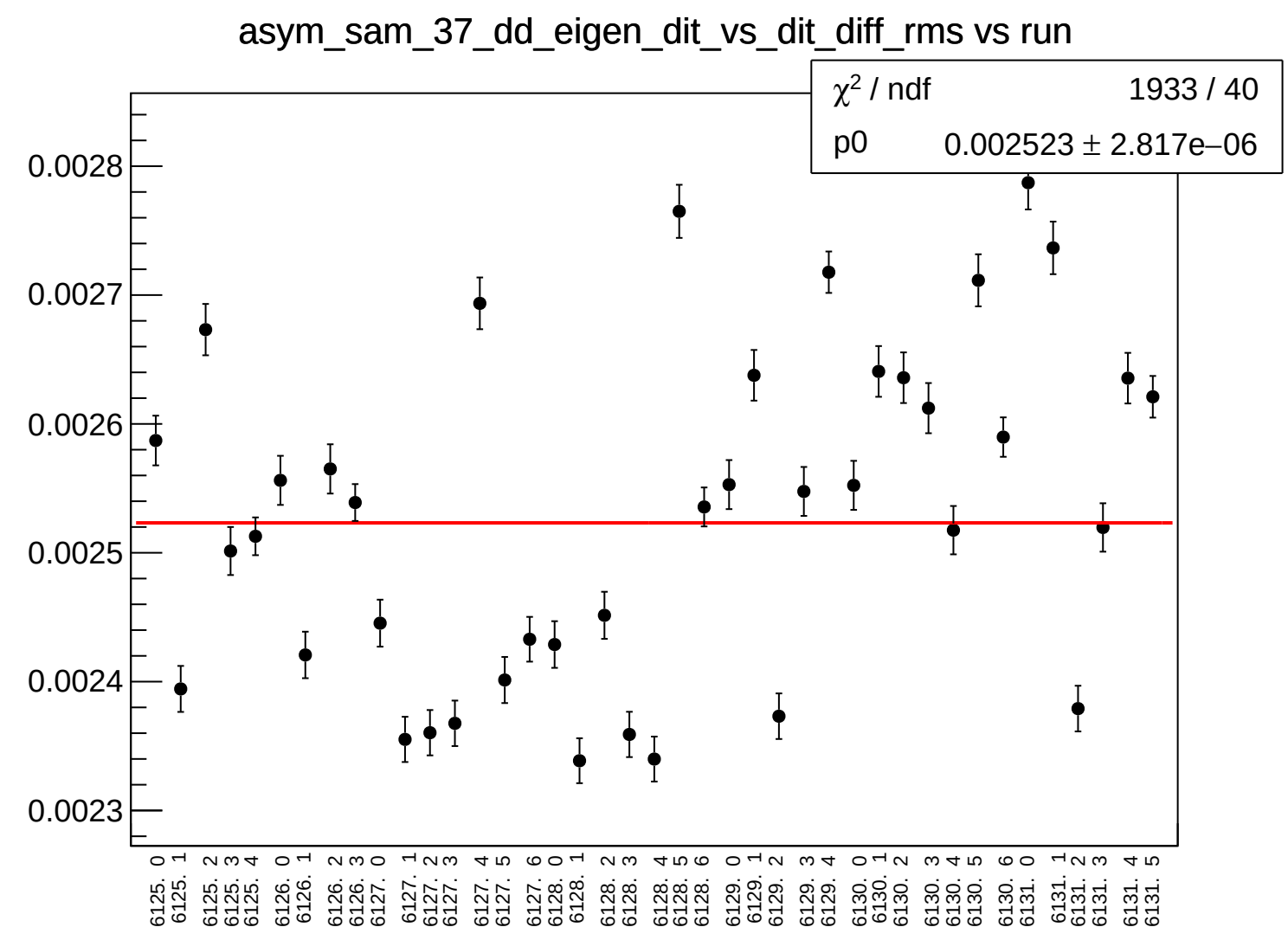

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.504e+04 / 40
p0 22.21 ± 0.02532
40
35
30
25
20
15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

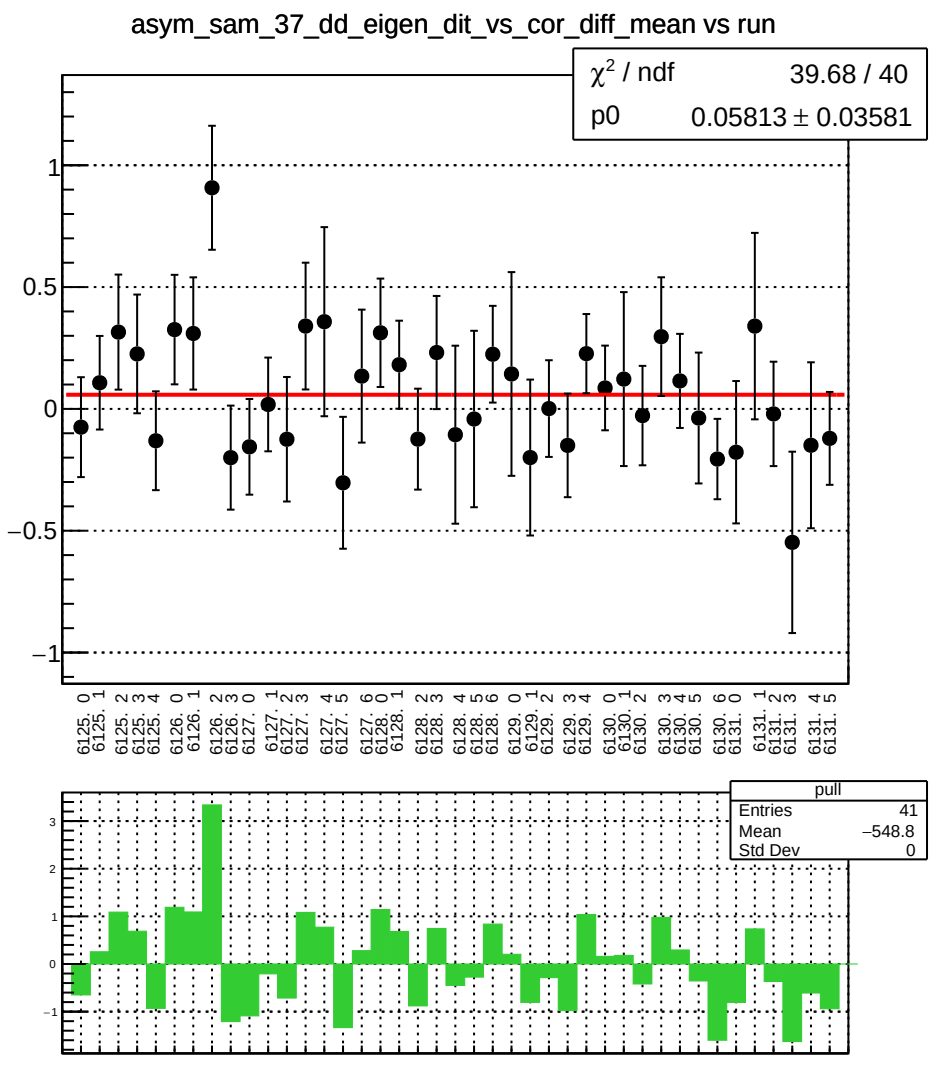

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.69 / 40
p0 0.05812 ± 0.03581
pull
Entries 41
Mean −548.5
Std Dev 0
pull1D
Entries 41
Mean 0.00619
Std Dev 0.9838

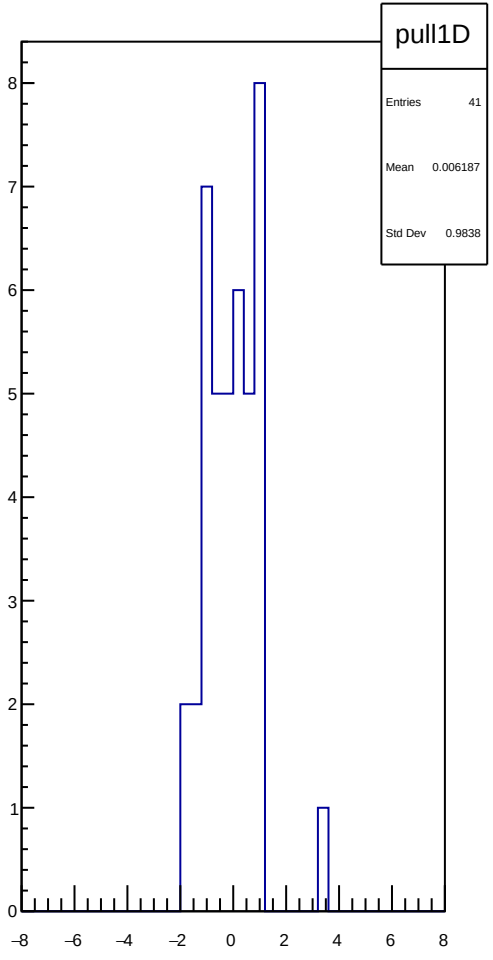

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.504e+04 / 40
p0 22.21 ± 0.02532
40
35
30
25
20
15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

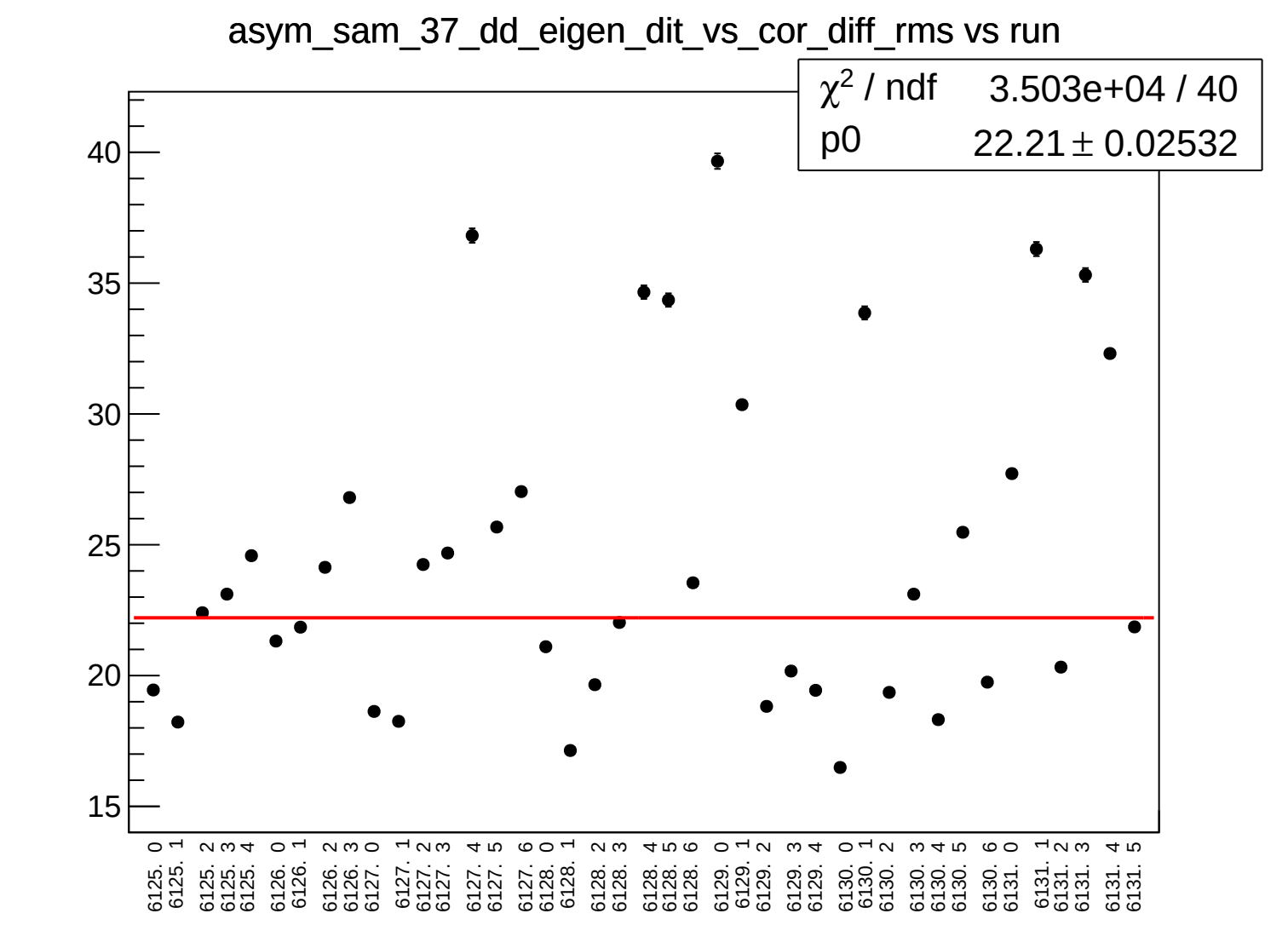

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 30.9 / 40
p0 4.247e−06 ± 3.984e−06
0.1
0.05
0
−0.05
−0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −272.7
Std Dev 0
2
1
0
−1
−2

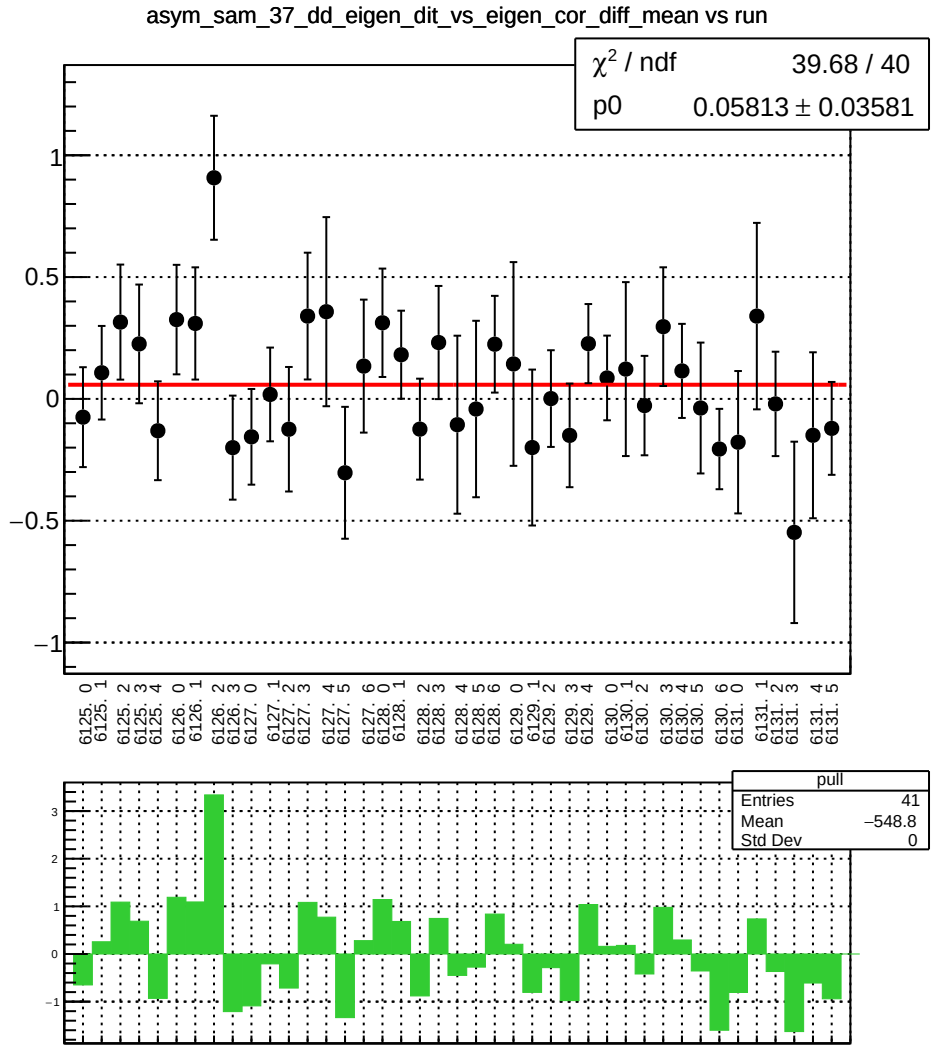

pull1D
Entries 41
Mean 0.01162
Std Dev 0.8681
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

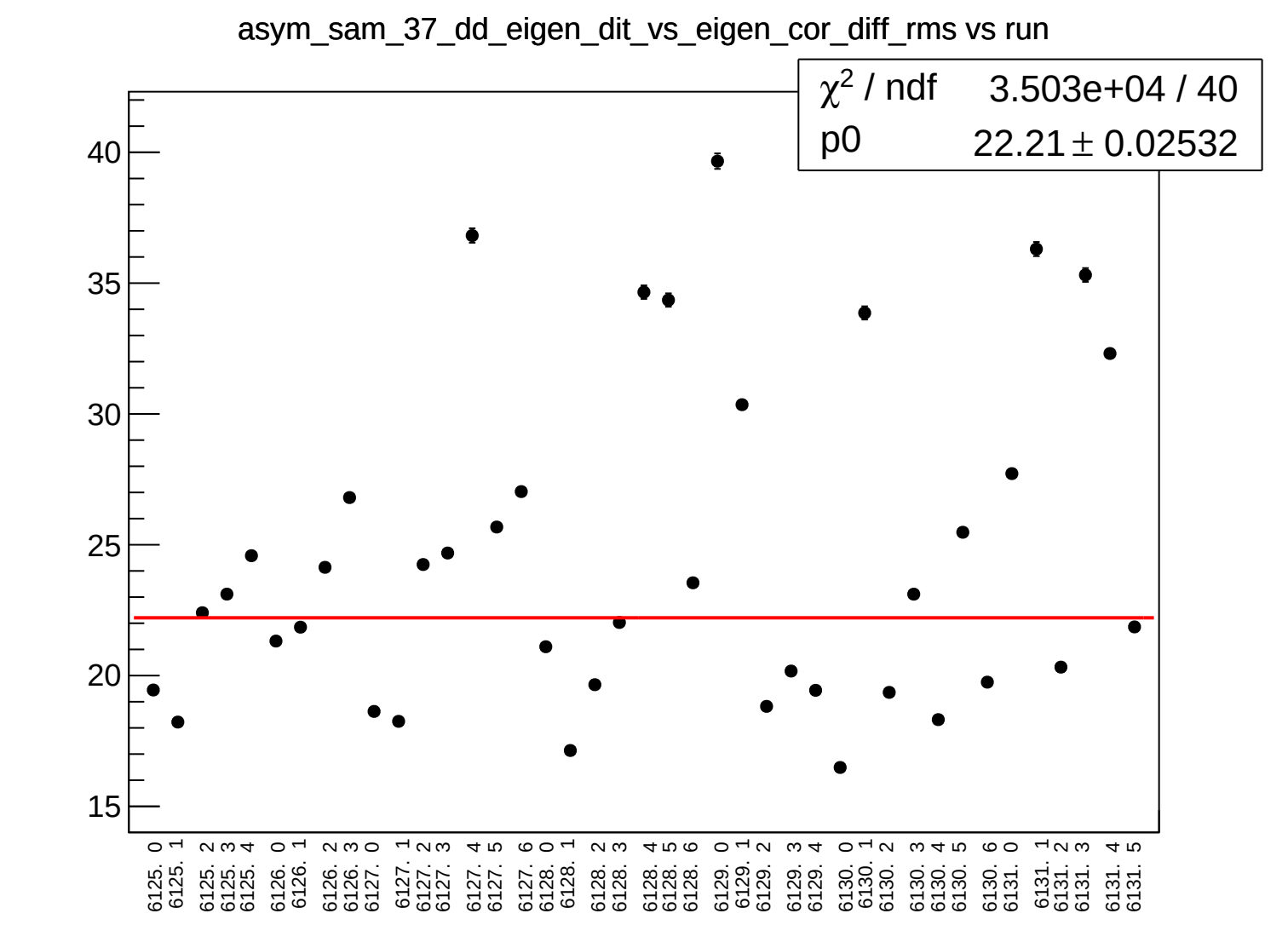

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1933 / 40
p0 0.002523 ± 2.817e−06
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

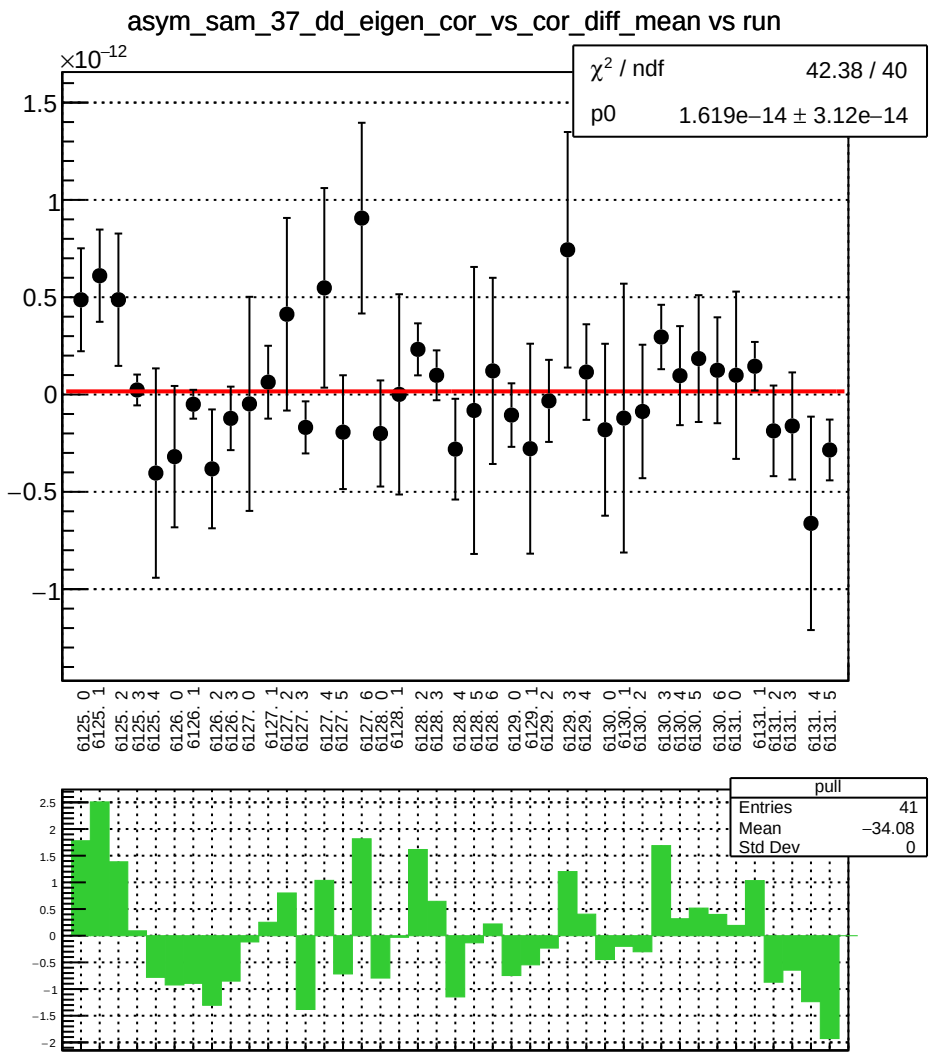

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 39.68 / 40
p0 0.05813 ± 0.03581
pull
Entries 41
Mean −548.8
Std Dev 0

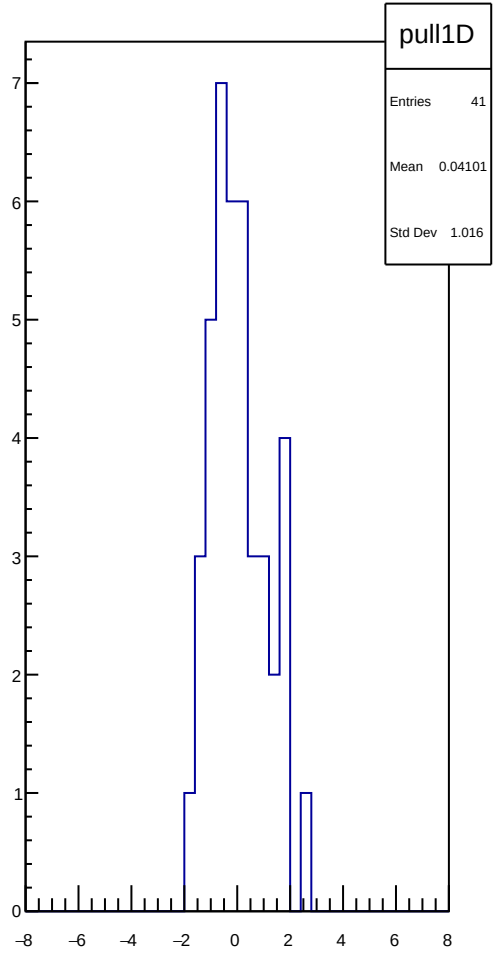

pull1D
Entries 41
Mean 0.006187
Std Dev 0.9838

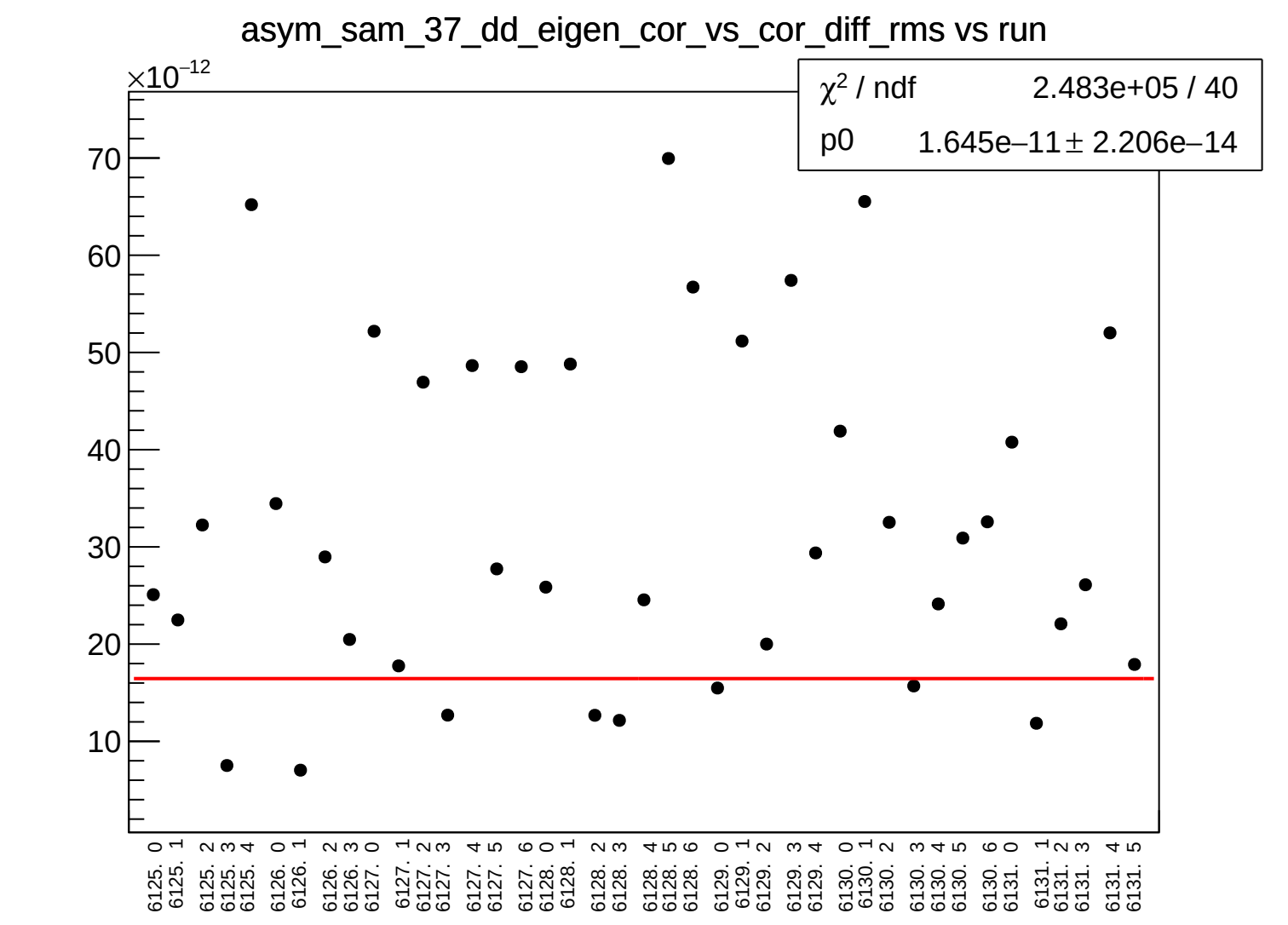

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.503e+04 / 40
p0 22.21 ± 0.02532
40
35
30
25
20
15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

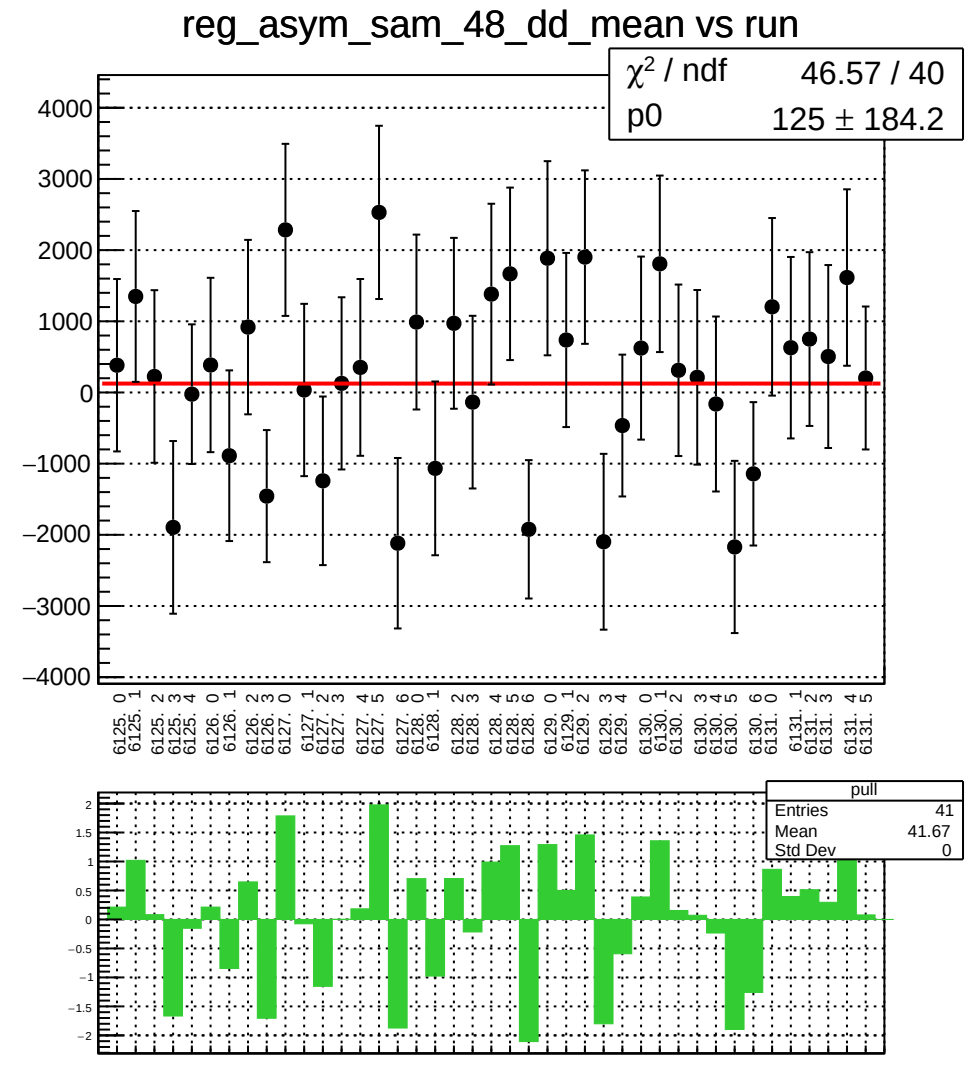

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.68 / 40
p0 0.05813 ± 0.03581
pull
Entries 41
Mean −548.8
Std Dev 0
pull1D
Entries 41
Mean 0.006187
Std Dev 0.9838

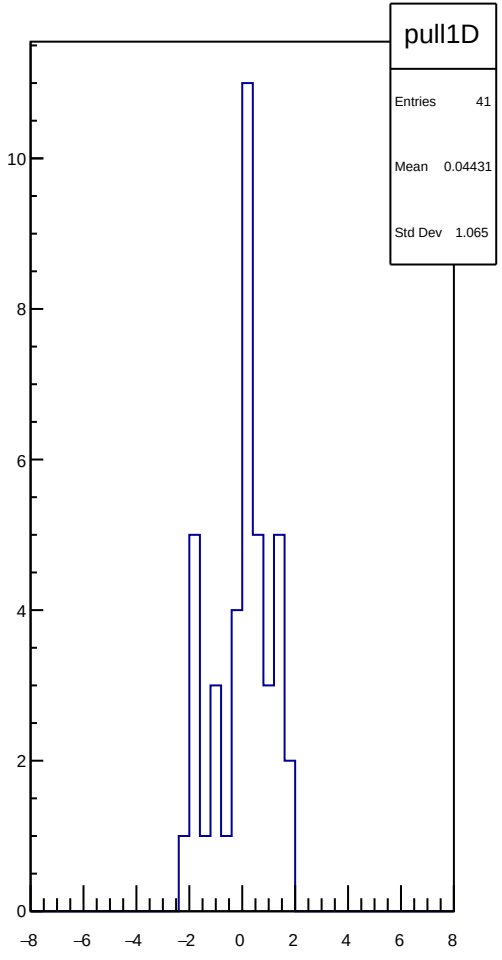

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.503e+04 / 40
p0 22.21 ± 0.02532
40
35
30
25
20
15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

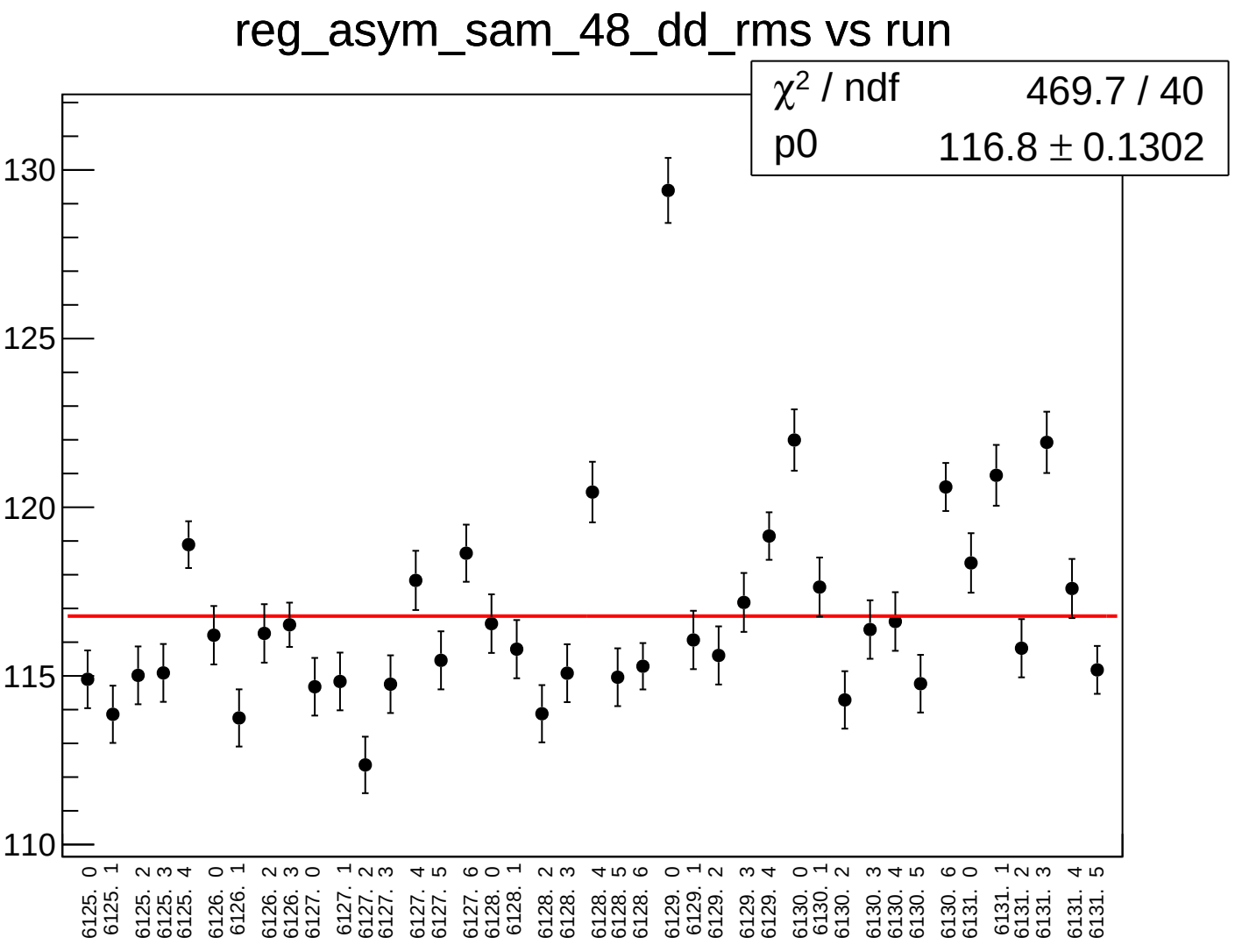

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 42.38 / 40
p0 1.619e−14 ± 3.12e−14
pull
Entries 41
Mean −34.08
Std Dev 0

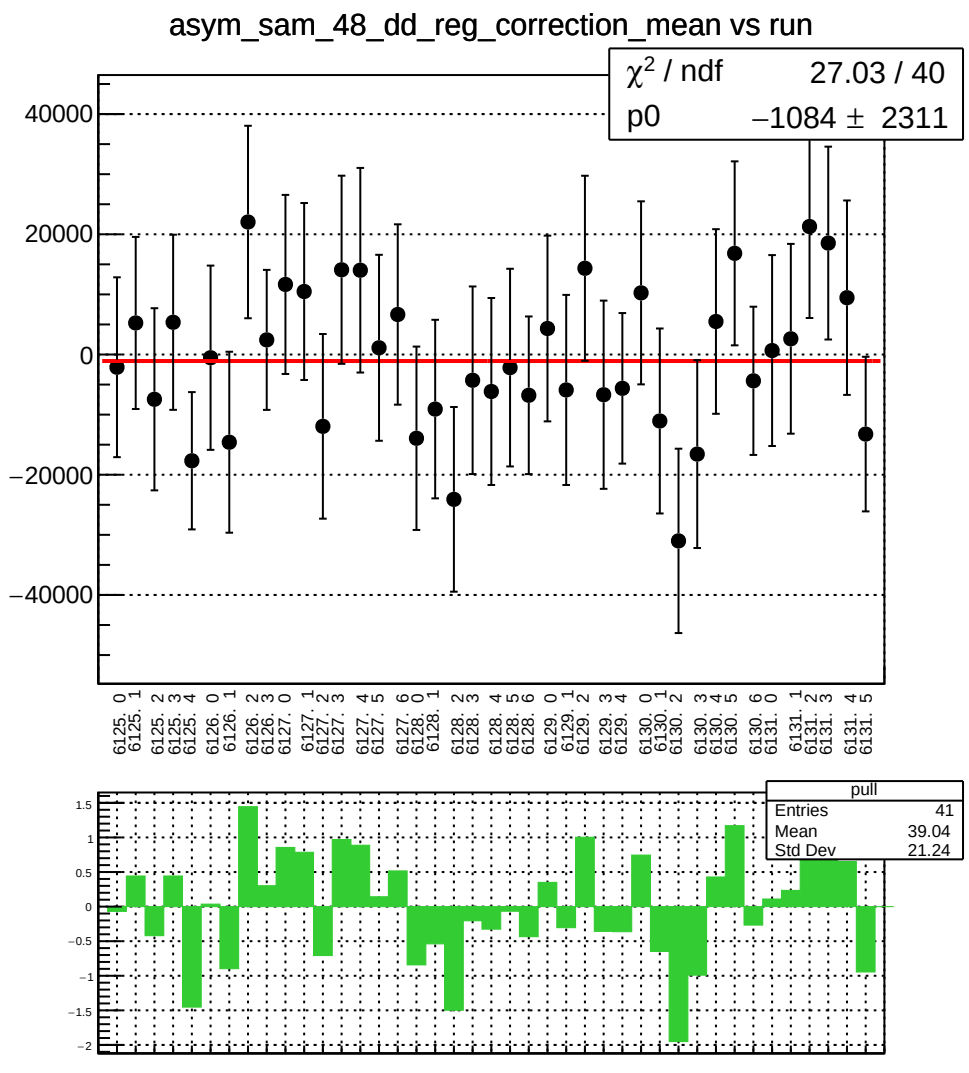

pull1D
Entries 41
Mean 0.04101
Std Dev 1.016

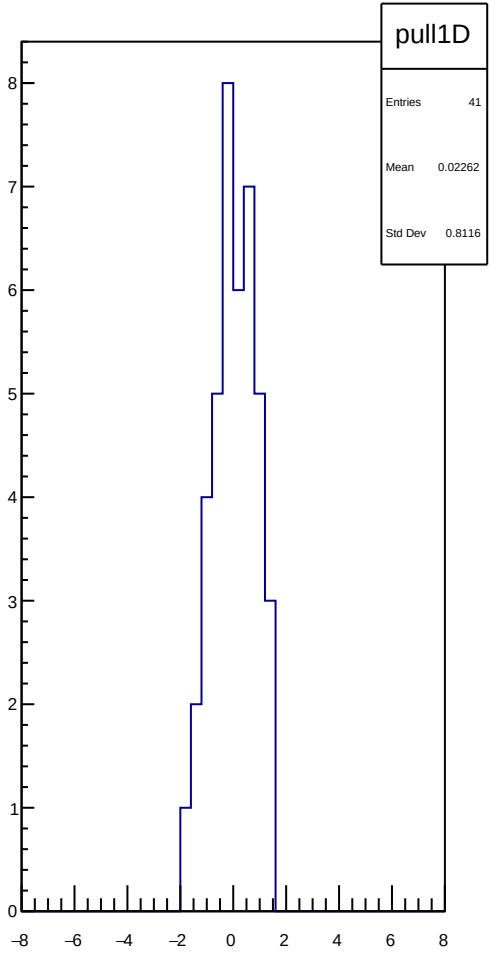

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.483e+05 / 40
p0 1.645e−11 ± 2.206e−14
70
60
50
40
30
20
10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

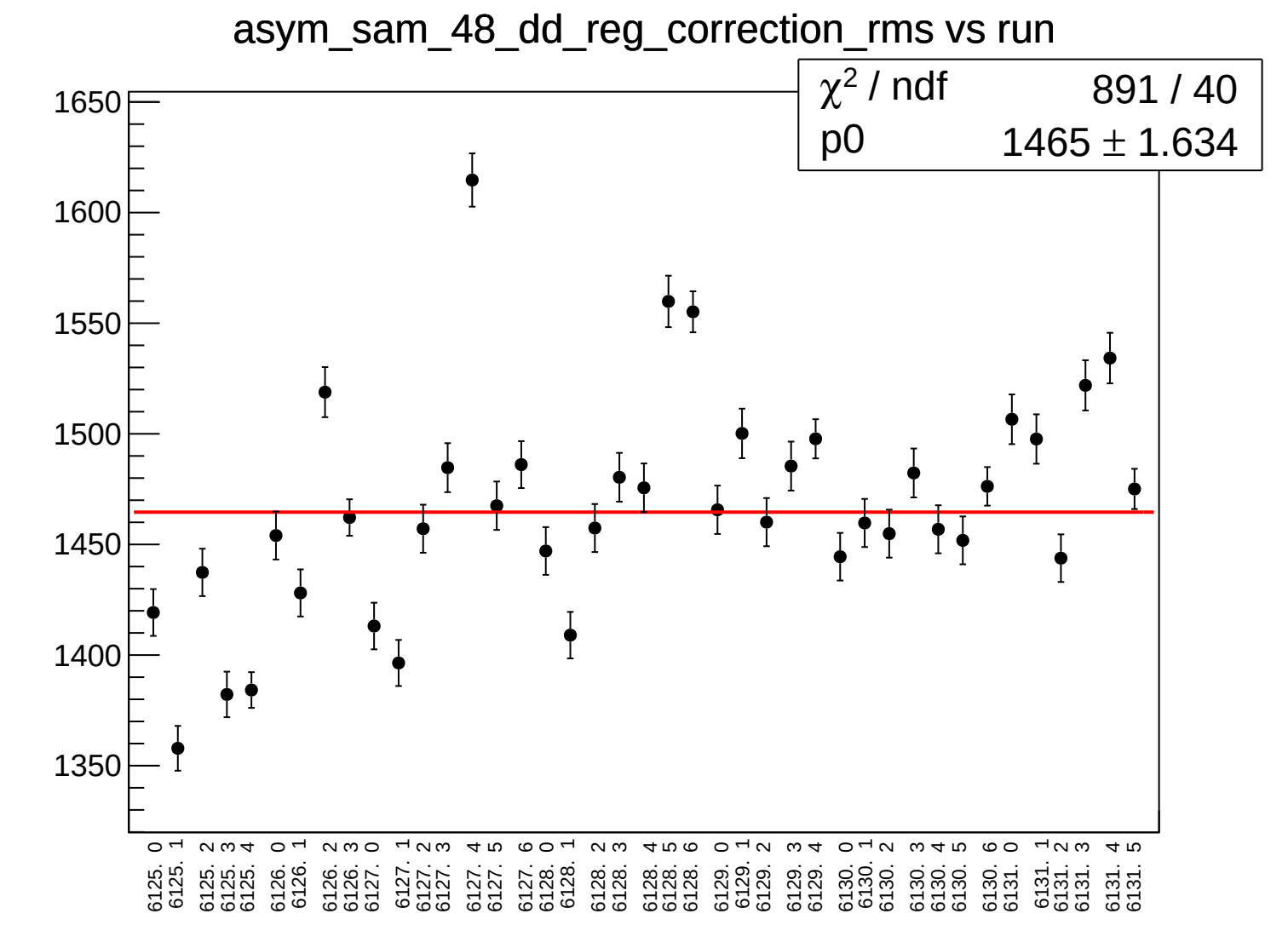

reg_asym_sam_48_dd_mean vs run
χ² / ndf 46.57 / 40
p0 125 ± 184.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 41.67
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

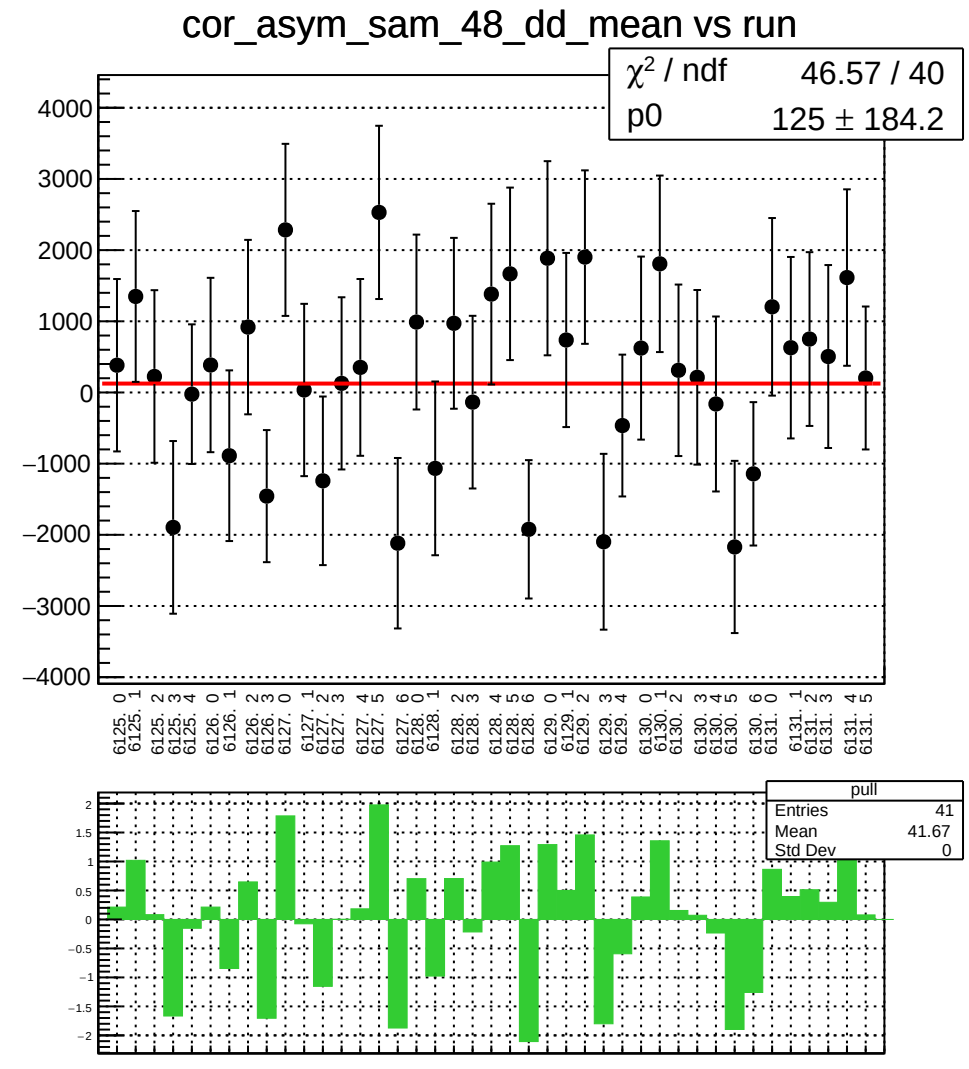

pull1D
Entries 41
Mean 0.04431
Std Dev 1.065
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

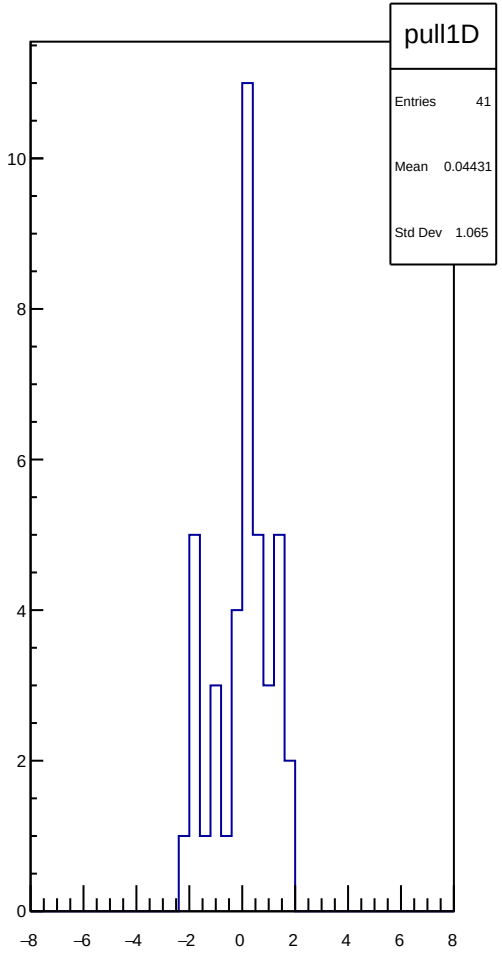

reg_asym_sam_48_dd_rms vs run
χ² / ndf 469.7 / 40
p0 116.8 ± 0.1302
130
125
120
115
110
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

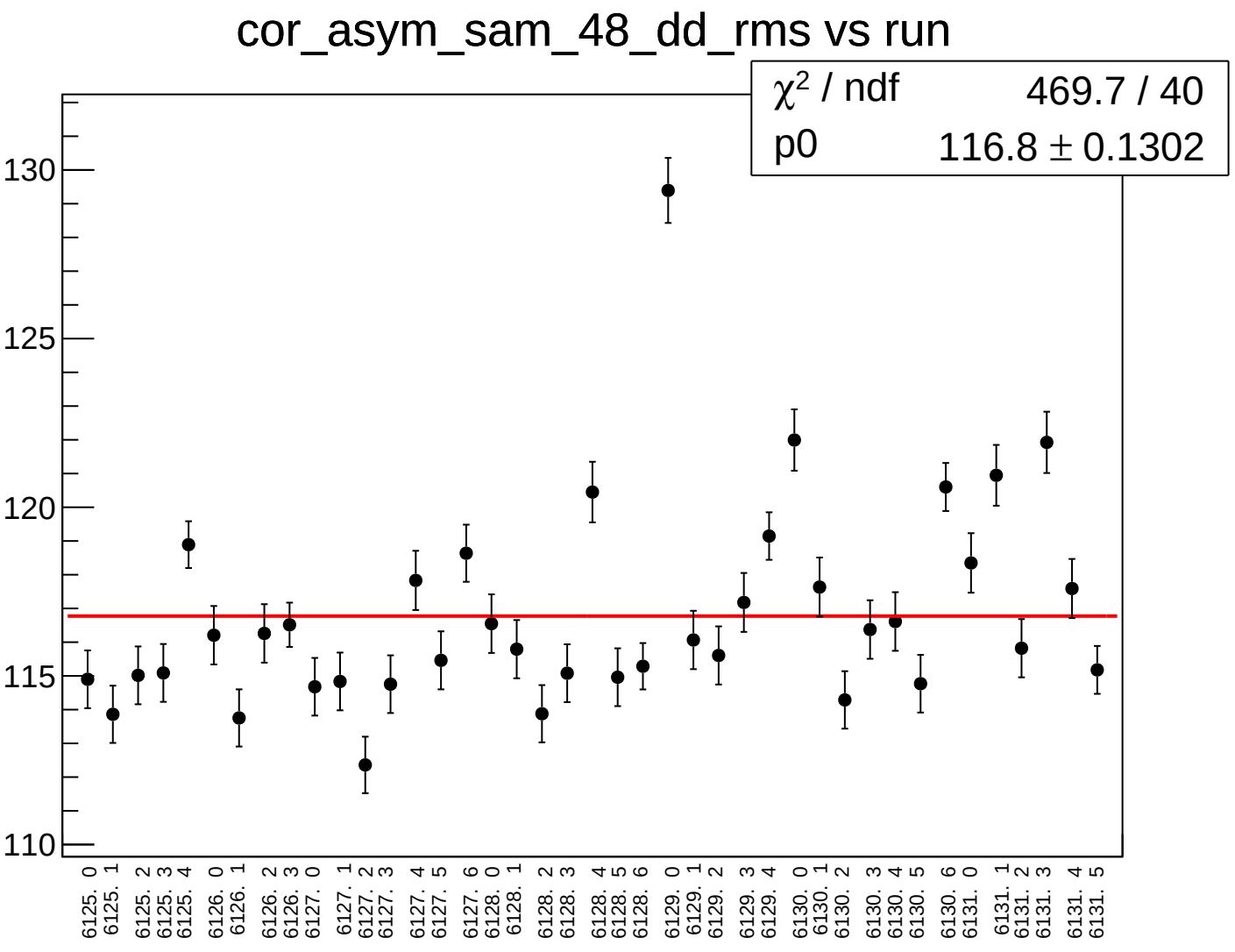

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 27.03 / 40
p0 −1084 ± 2311
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 39.04
Std Dev 21.24
1.5
1
0.5
0
−0.5
−1
−1.5
−2

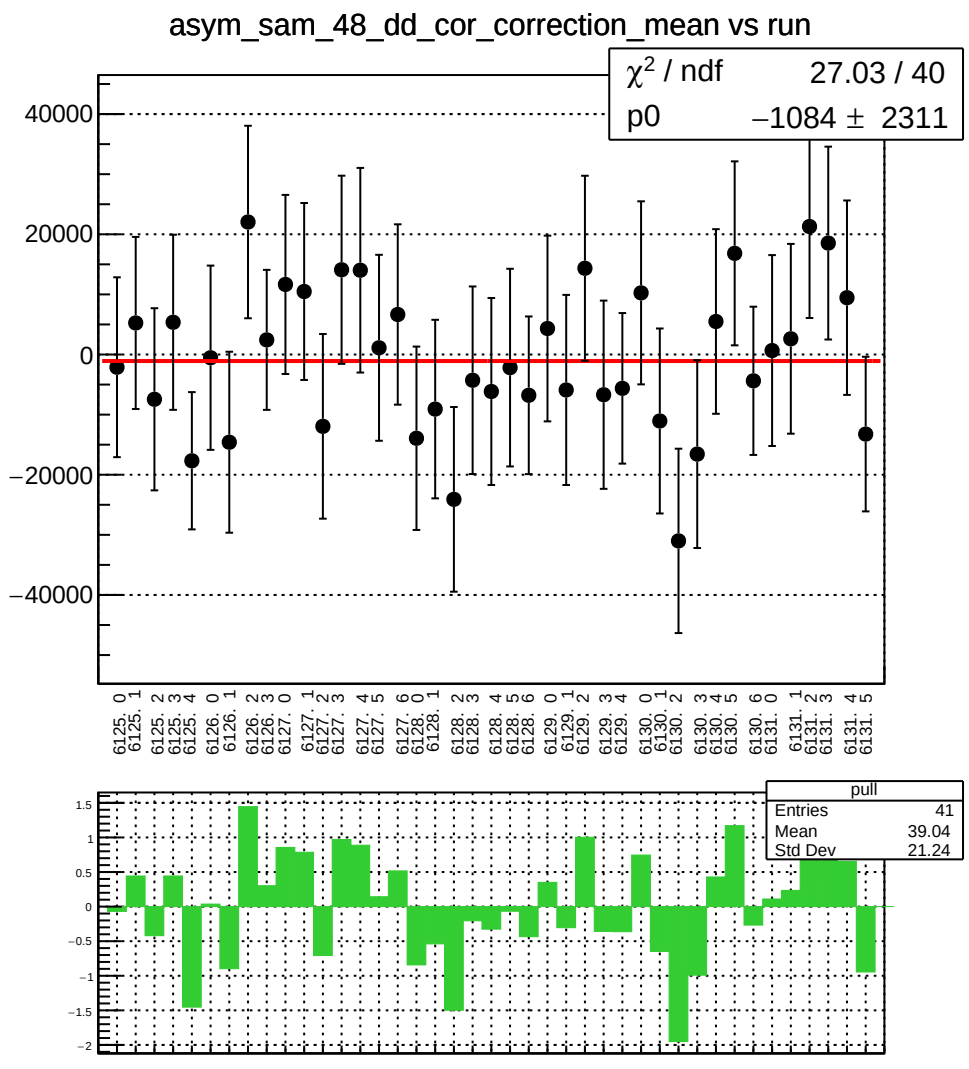

pull1D
Entries 41
Mean 0.02262
Std Dev 0.8116
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

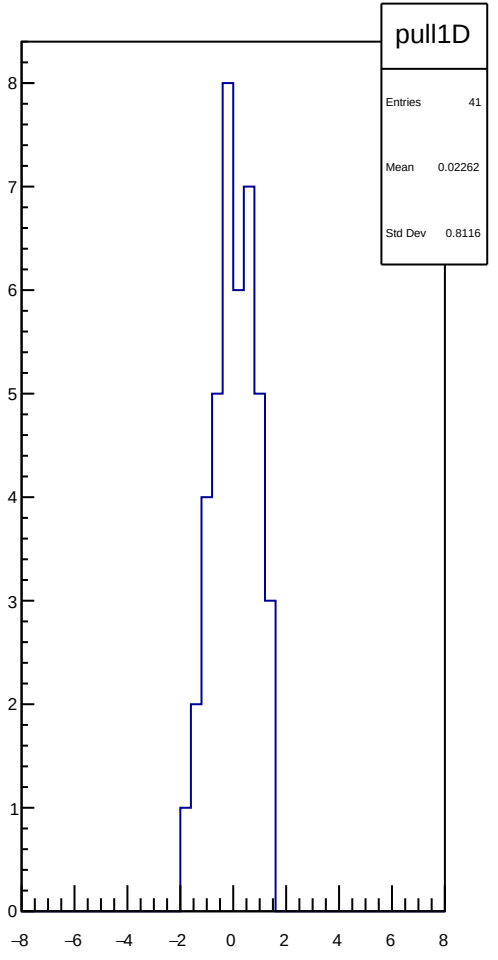

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 891 / 40
p0 1465 ± 1.634
1650
1600
1550
1500
1450
1400
1350
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

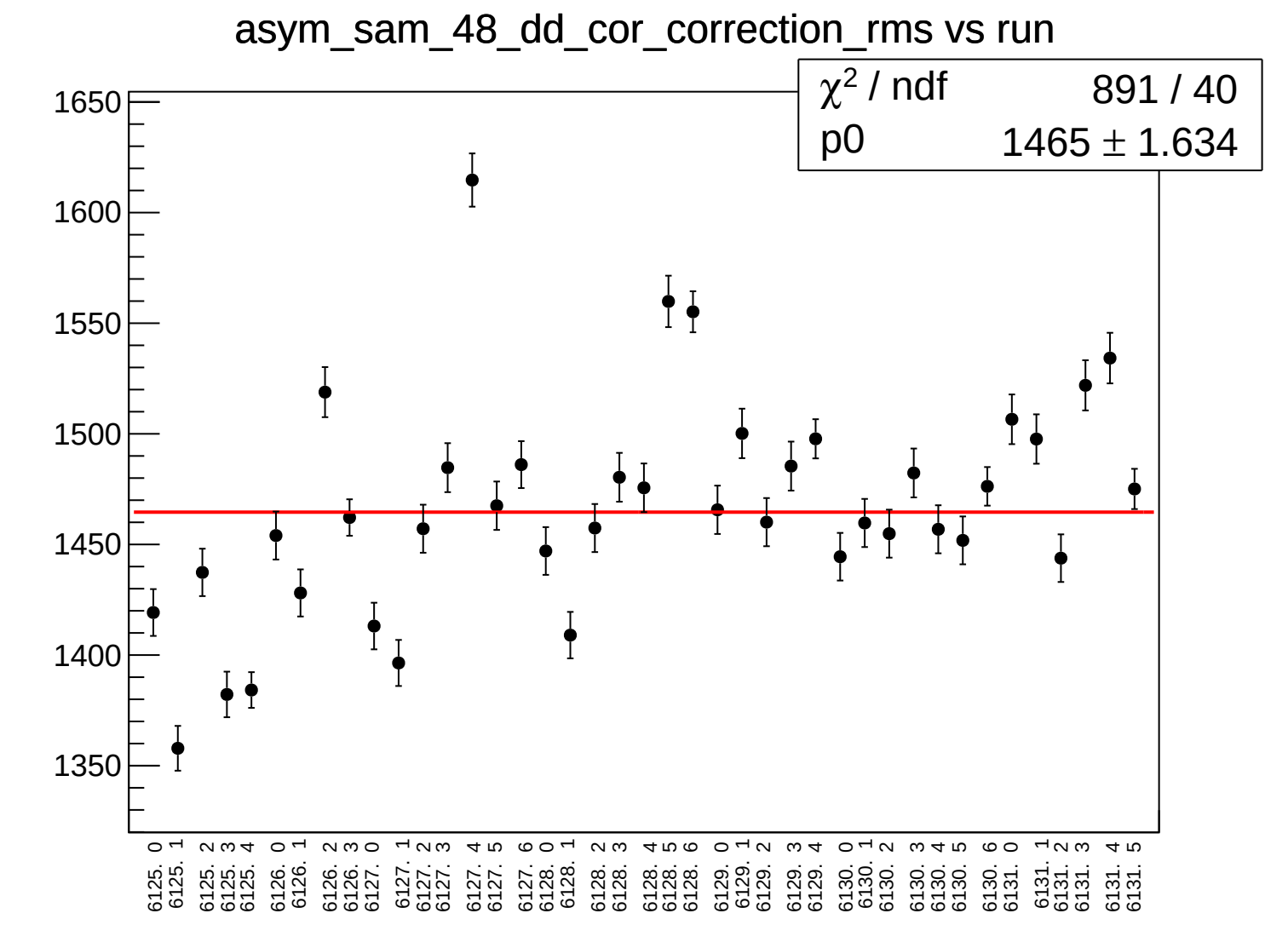

cor_asym_sam_48_dd_mean vs run
χ² / ndf 46.57 / 40
p0 125 ± 184.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 41.67
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

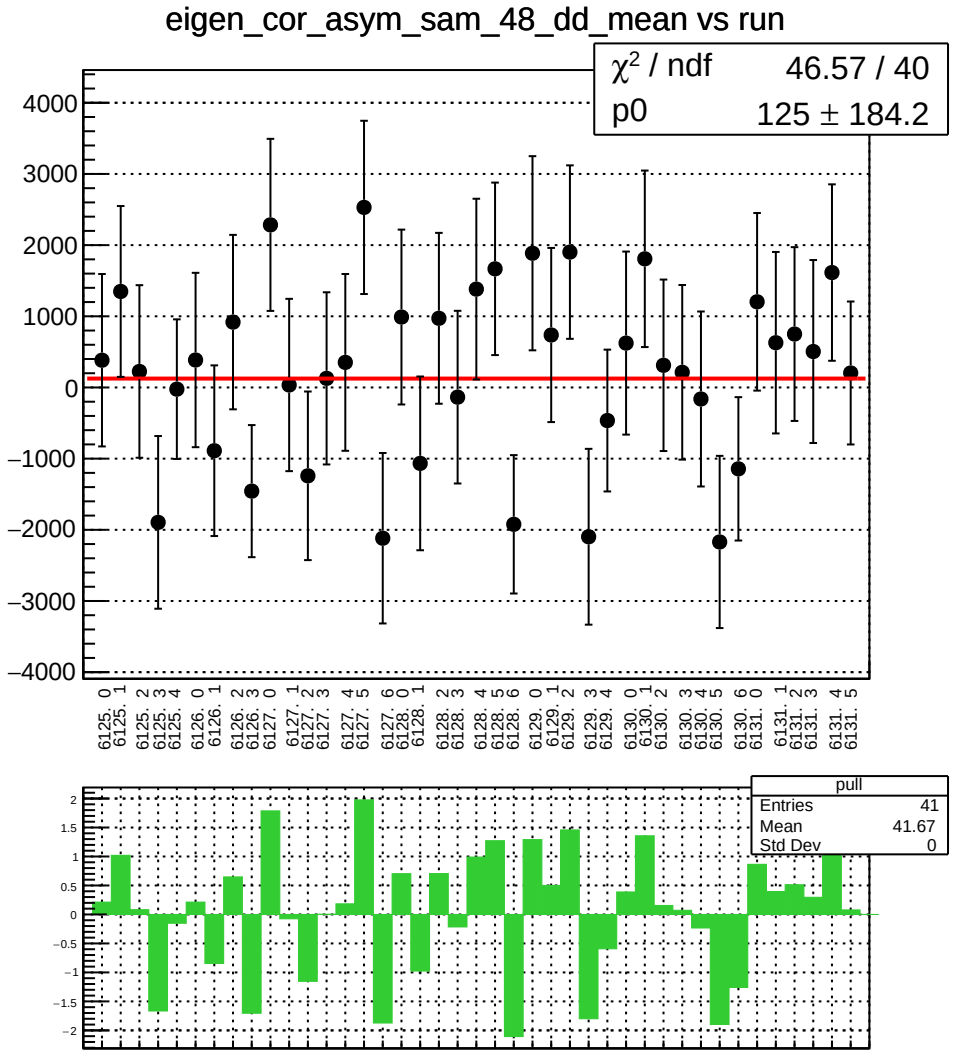

pull1D
Entries 41
Mean 0.04431
Std Dev 1.065
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

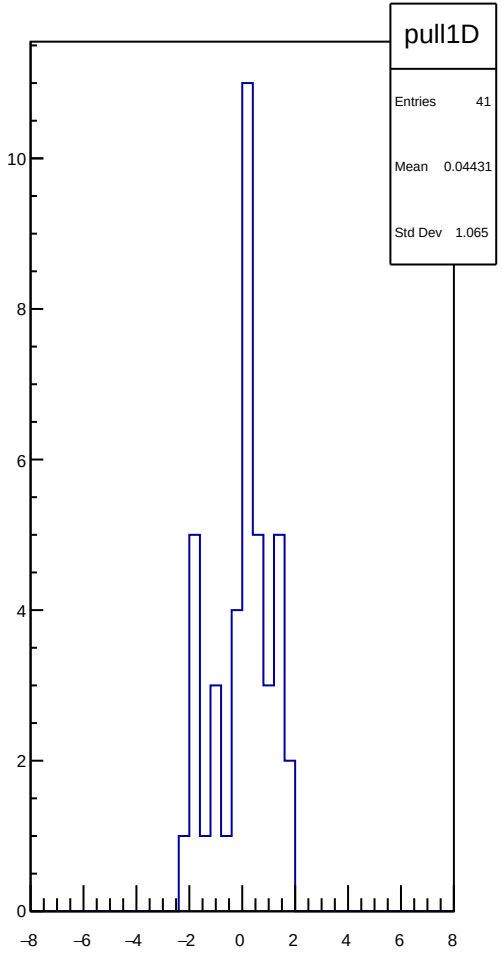

cor_asym_sam_48_dd_rms vs run
χ² / ndf 469.7 / 40
p0 116.8 ± 0.1302
130
125
120
115
110
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

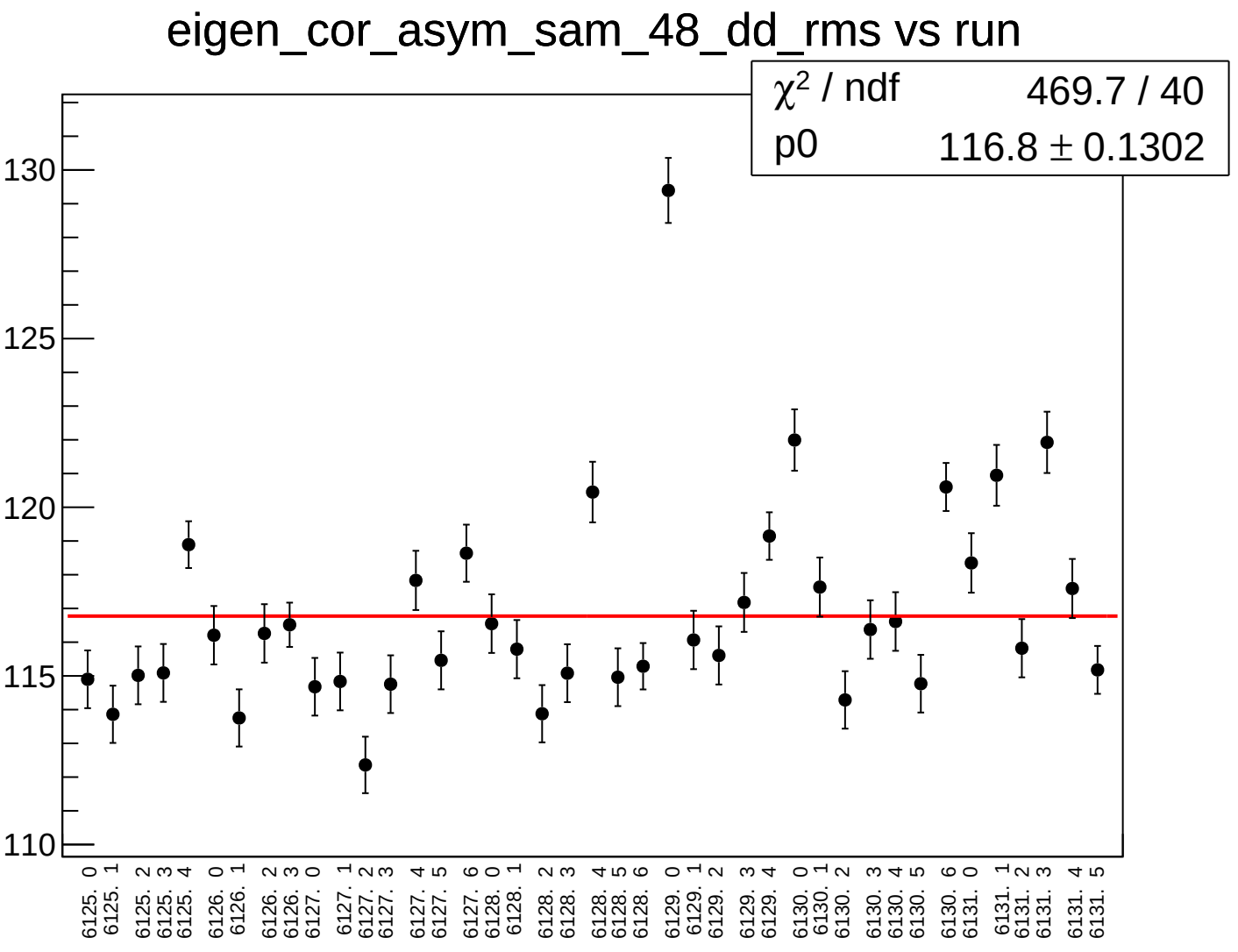

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 27.03 / 40
p0 −1084 ± 2311
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 39.04
Std Dev 21.24
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.02262
Std Dev 0.8116
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 891 / 40
p0 1465 ± 1.634
1650
1600
1550
1500
1450
1400
1350
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 46.57 / 40
p0 125 ± 184.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 41.67
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.04431
Std Dev 1.065
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 469.7 / 40
p0 116.8 ± 0.1302
130
125
120
115
110
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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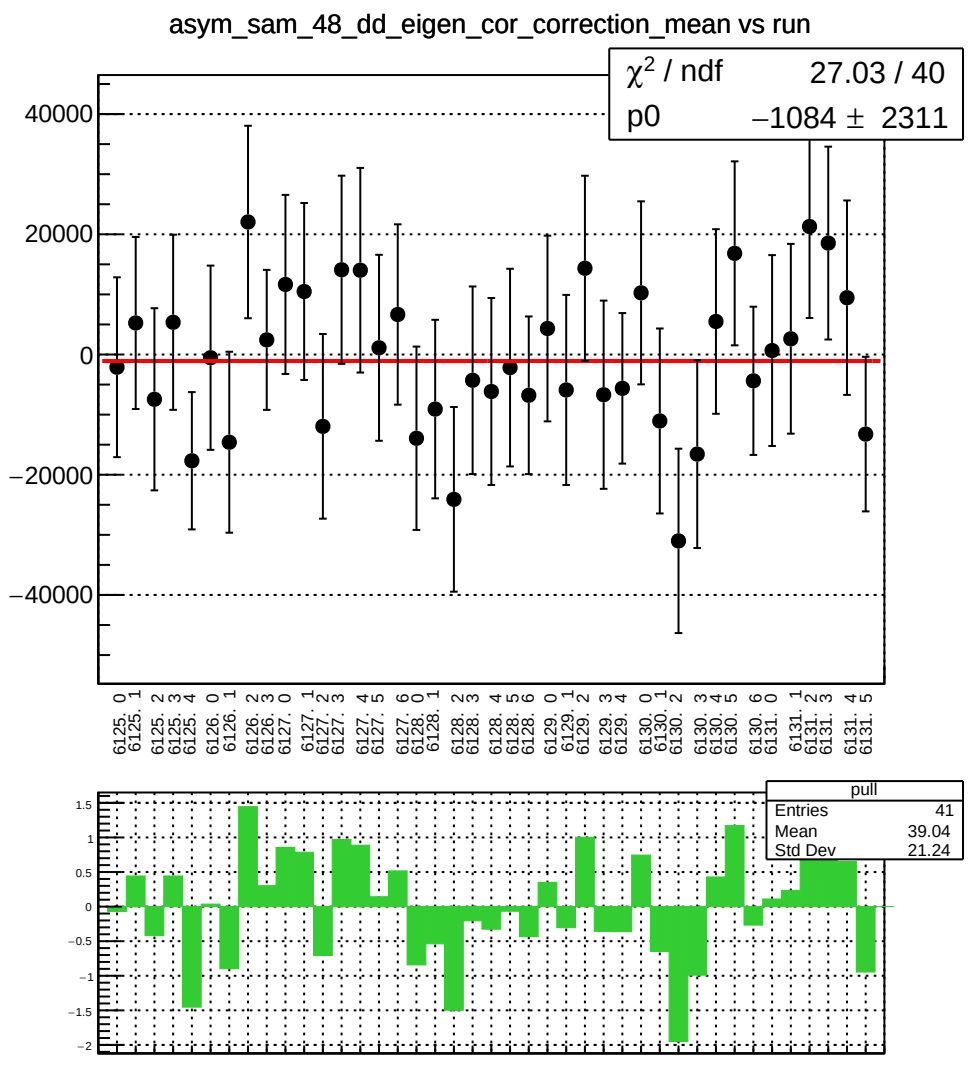
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 27.03 / 40
p0 −1084 ± 2311
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
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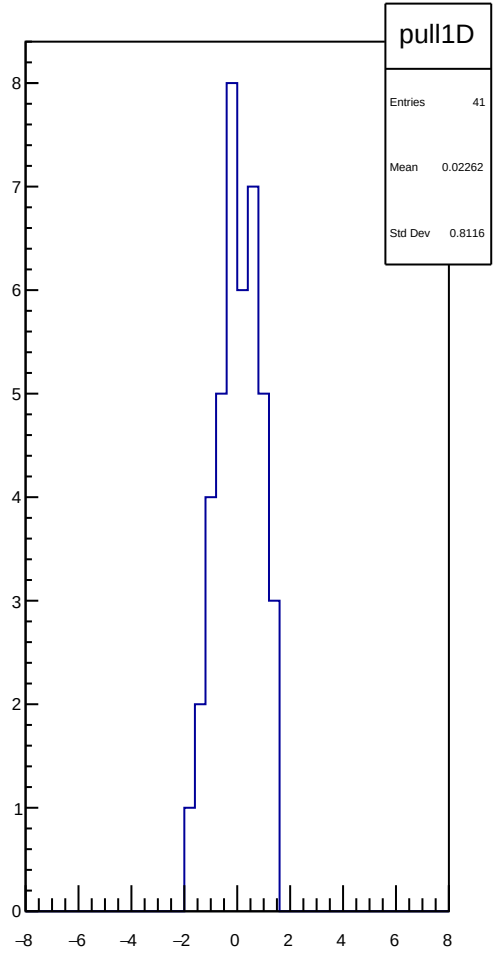
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 39.04
Std Dev 21.24
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.02262
Std Dev 0.8116
8
7
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5
4
3
2
1
0
−8
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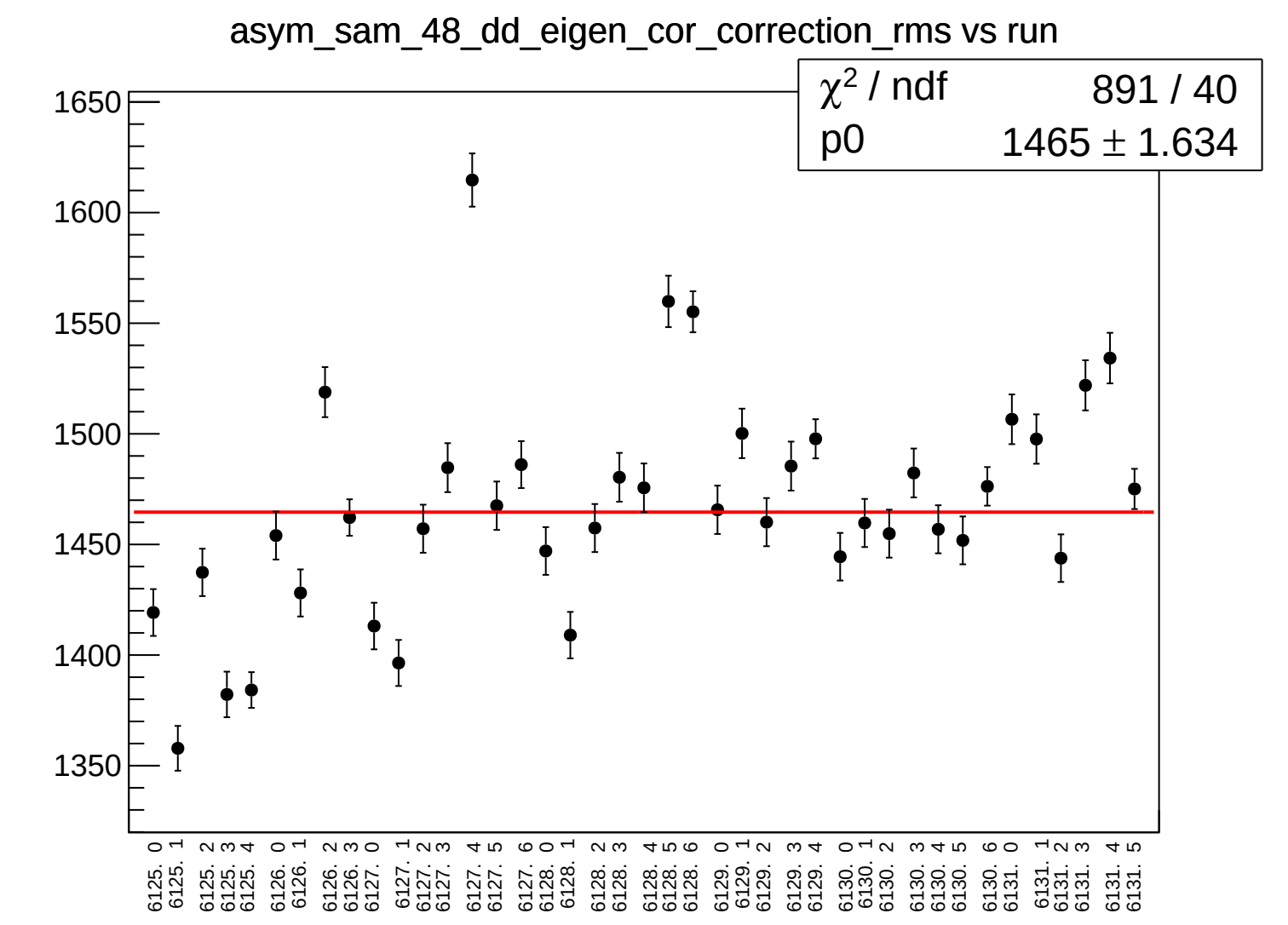
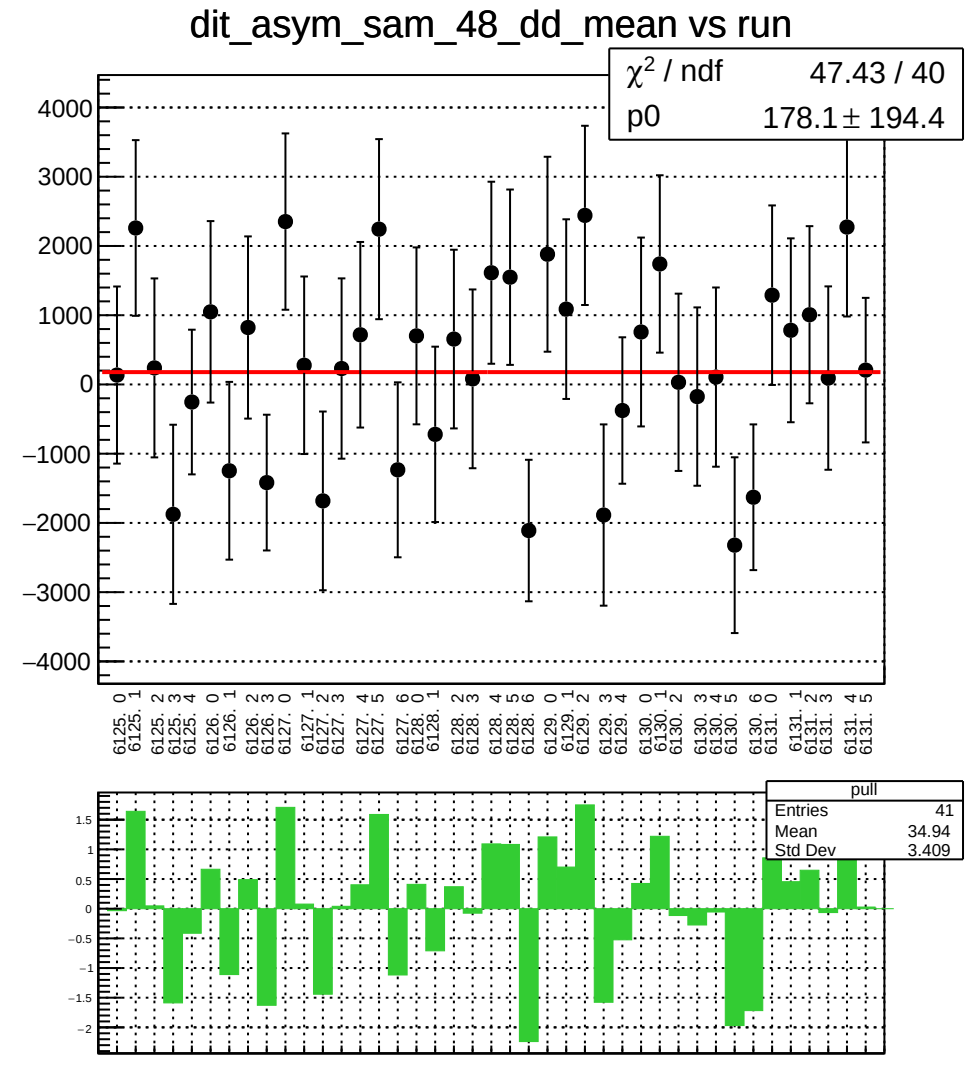
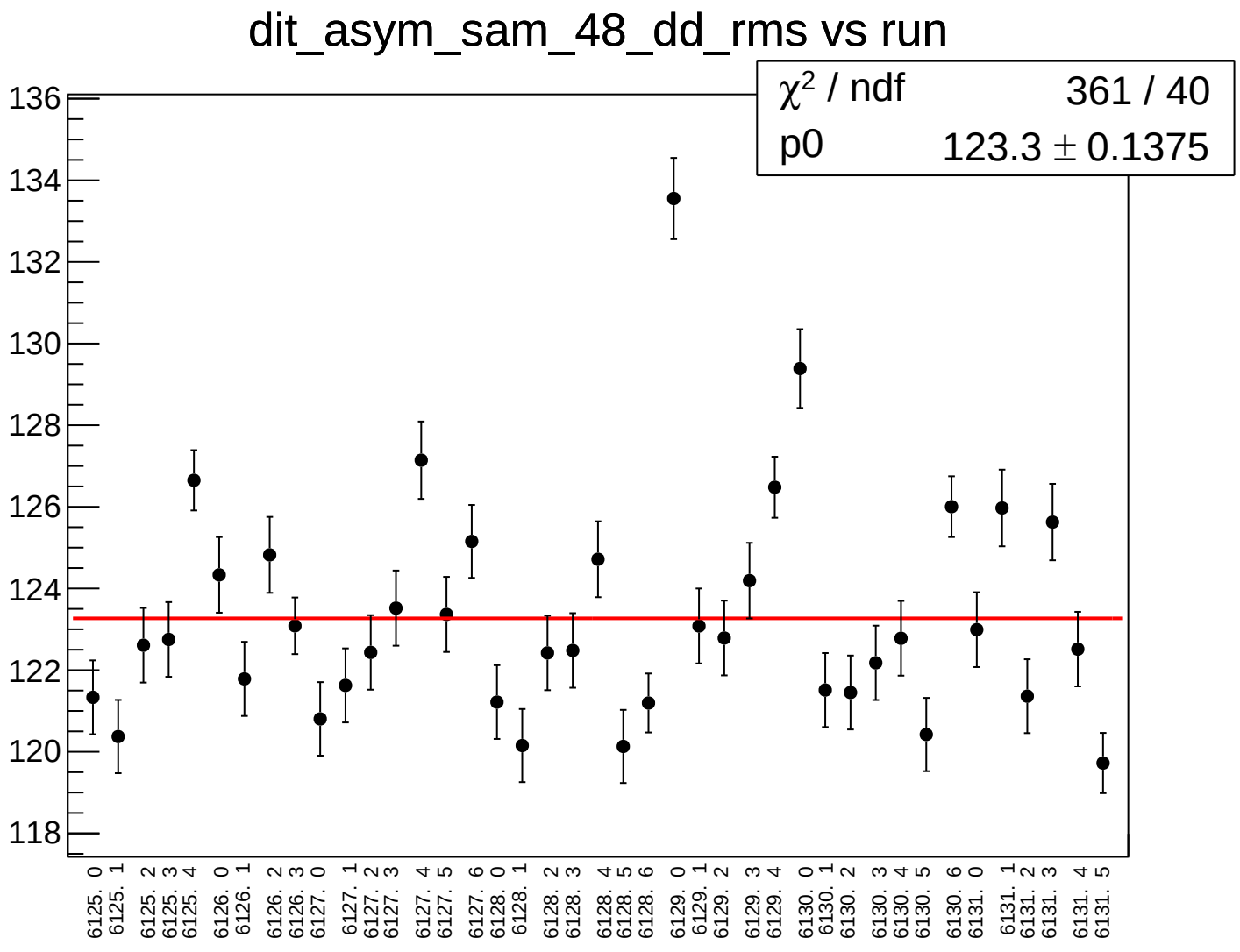
−4
−2
0
2
4
6
8


asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 891 / 40
p0 1465 ± 1.634
1650
1600
1550
1500
1450
1400
1350
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


dit_asym_sam_48_dd_mean vs run
χ² / ndf 47.43 / 40
p0 178.1 ± 194.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 34.94
Std Dev 3.409
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.0457
Std Dev 1.075
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 361 / 40
p0 123.3 ± 0.1375
136
134
132
130
128
126
124
122
120
118
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
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6127. 5
6127. 6
6128. 0
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6128. 2
6128. 3
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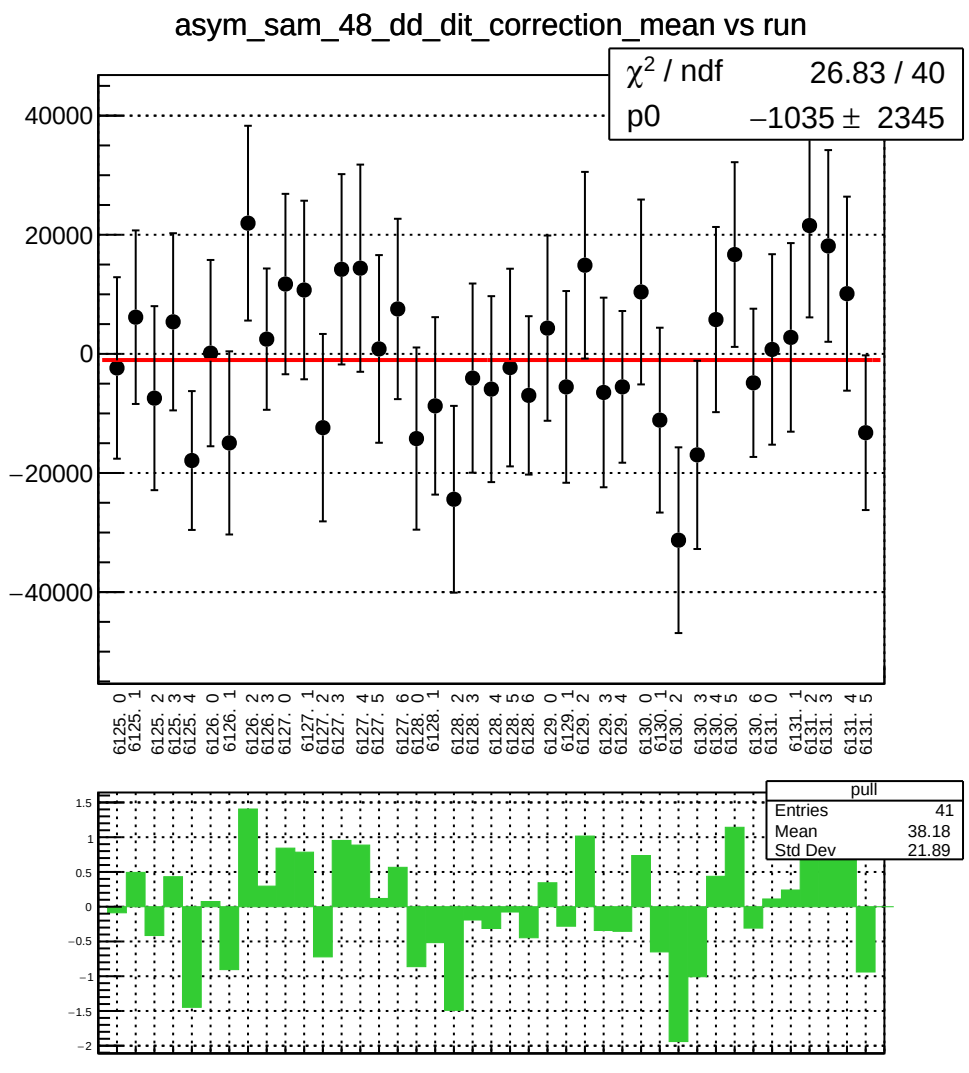
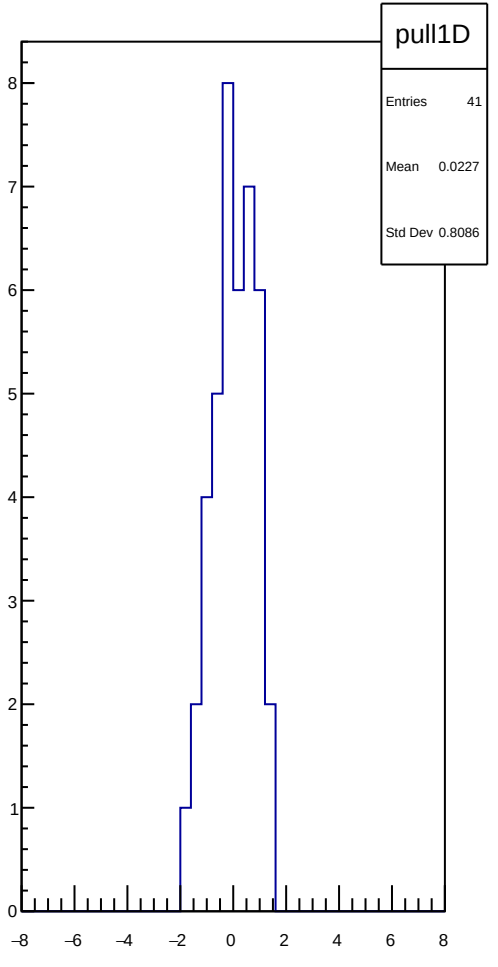
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 26.83 / 40
p0 −1035 ± 2345
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 38.18
Std Dev 21.89
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.0227
Std Dev 0.8086
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7
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5
4
3
2
1
0
−8
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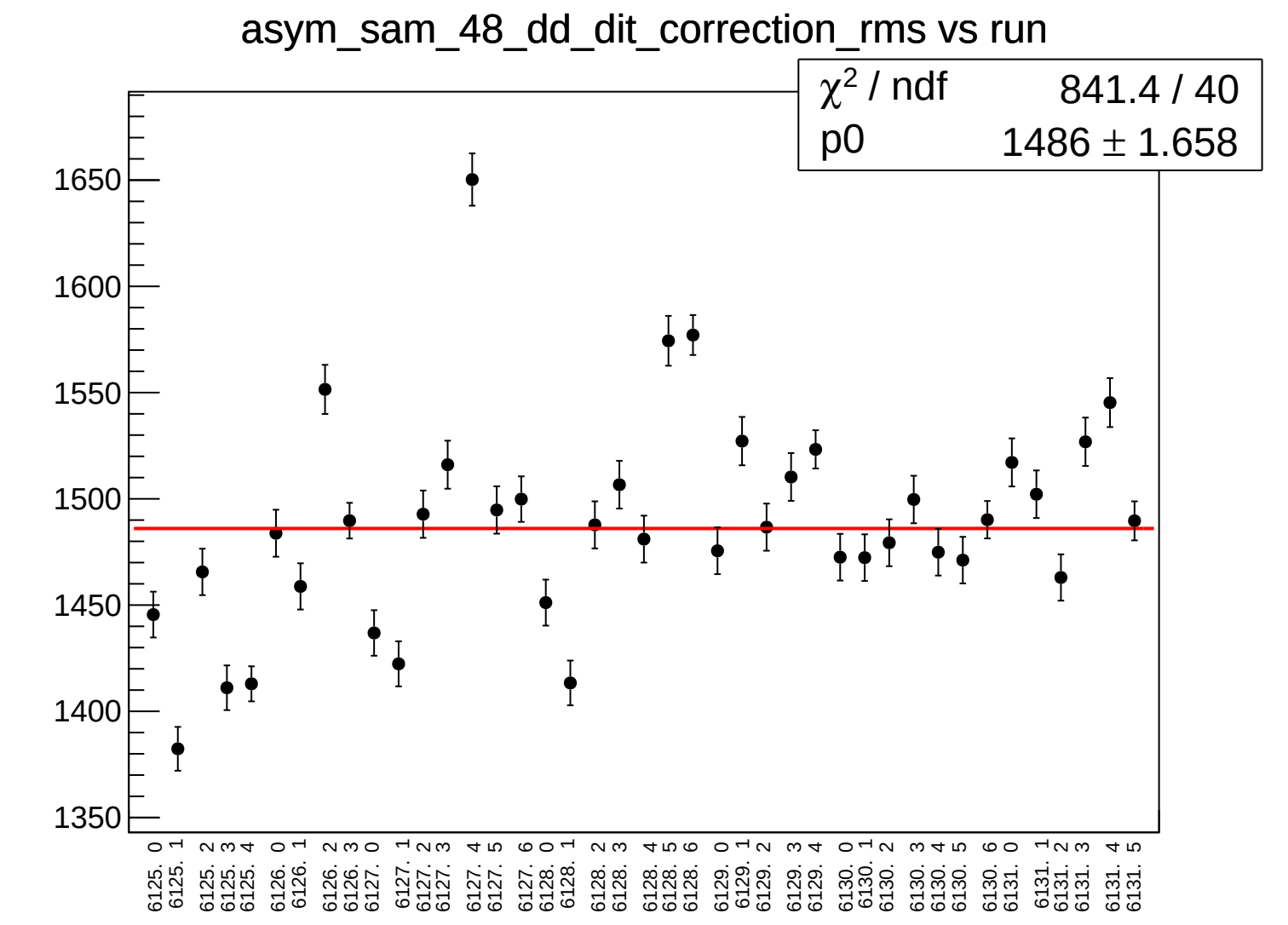
−4
−2
0
2
4
6
8


asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 841.4 / 40
p0 1486 ± 1.658
1650
1600
1550
1500
1450
1400
1350
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
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6127. 2
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6128. 2
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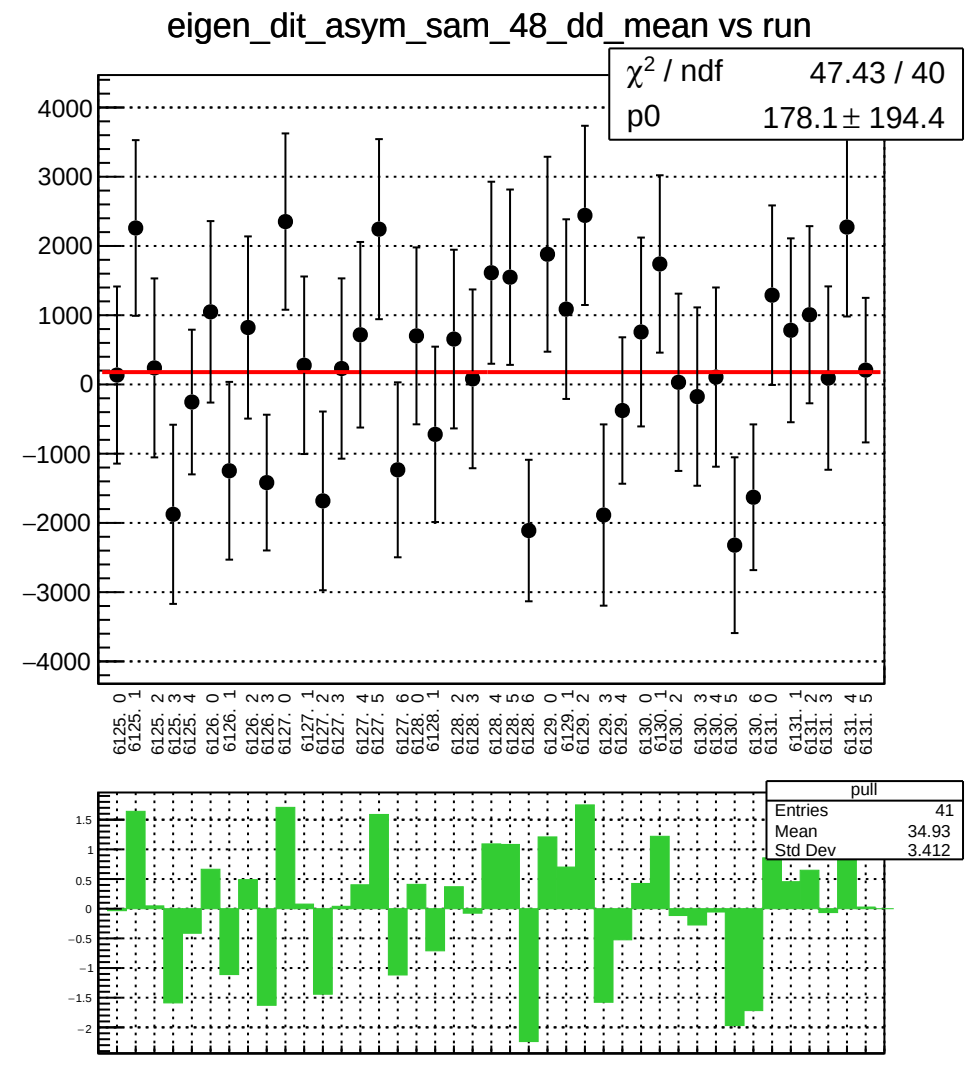
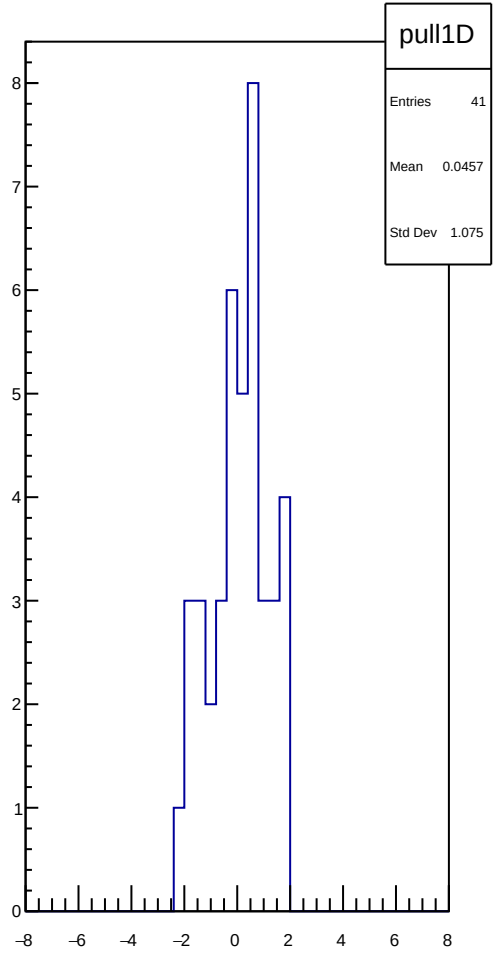
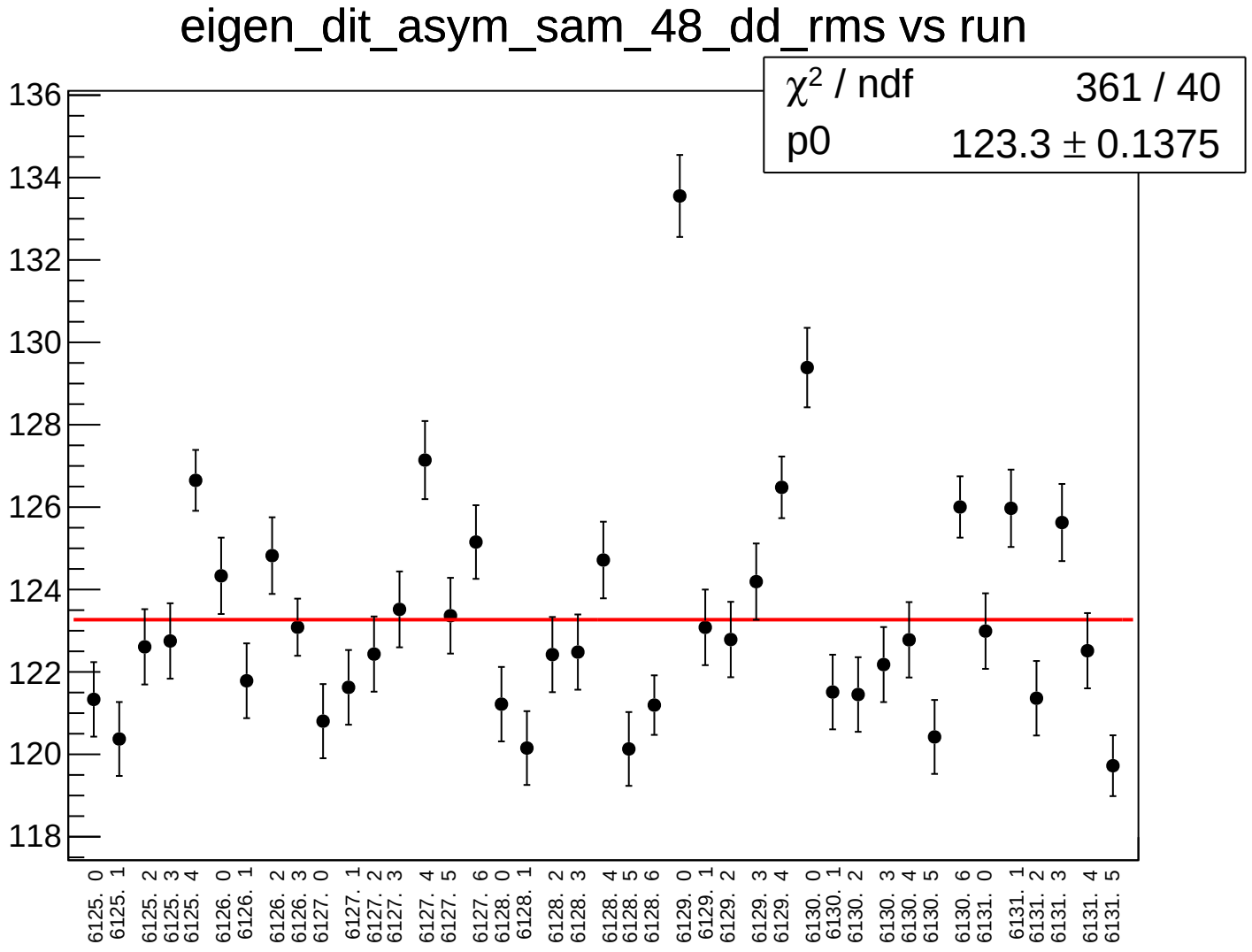
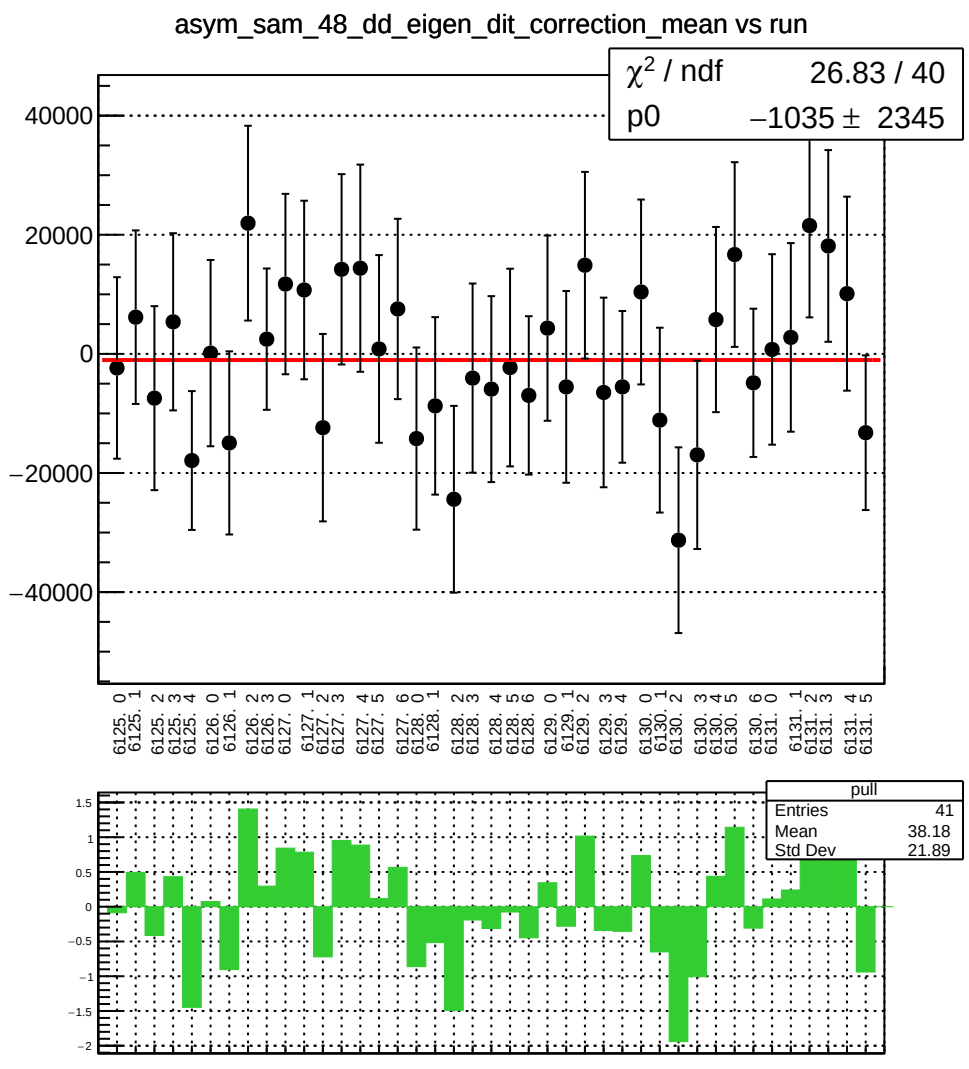
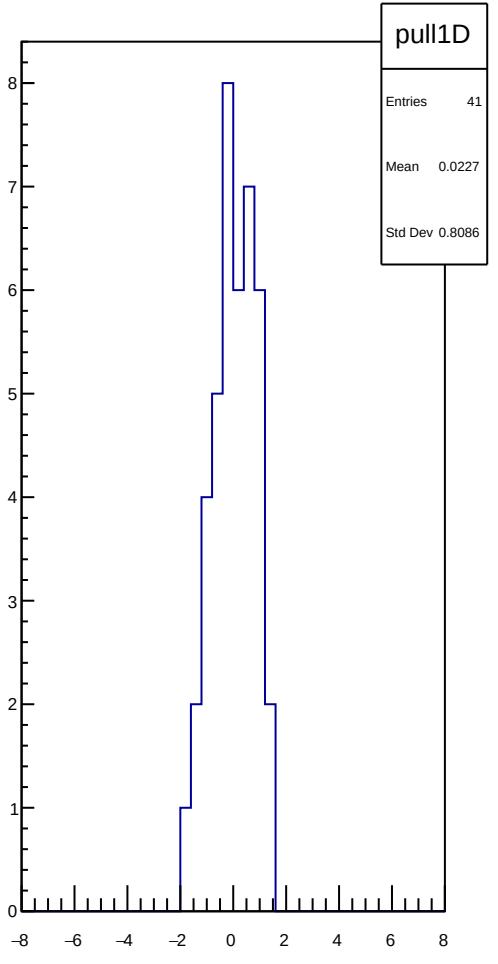
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

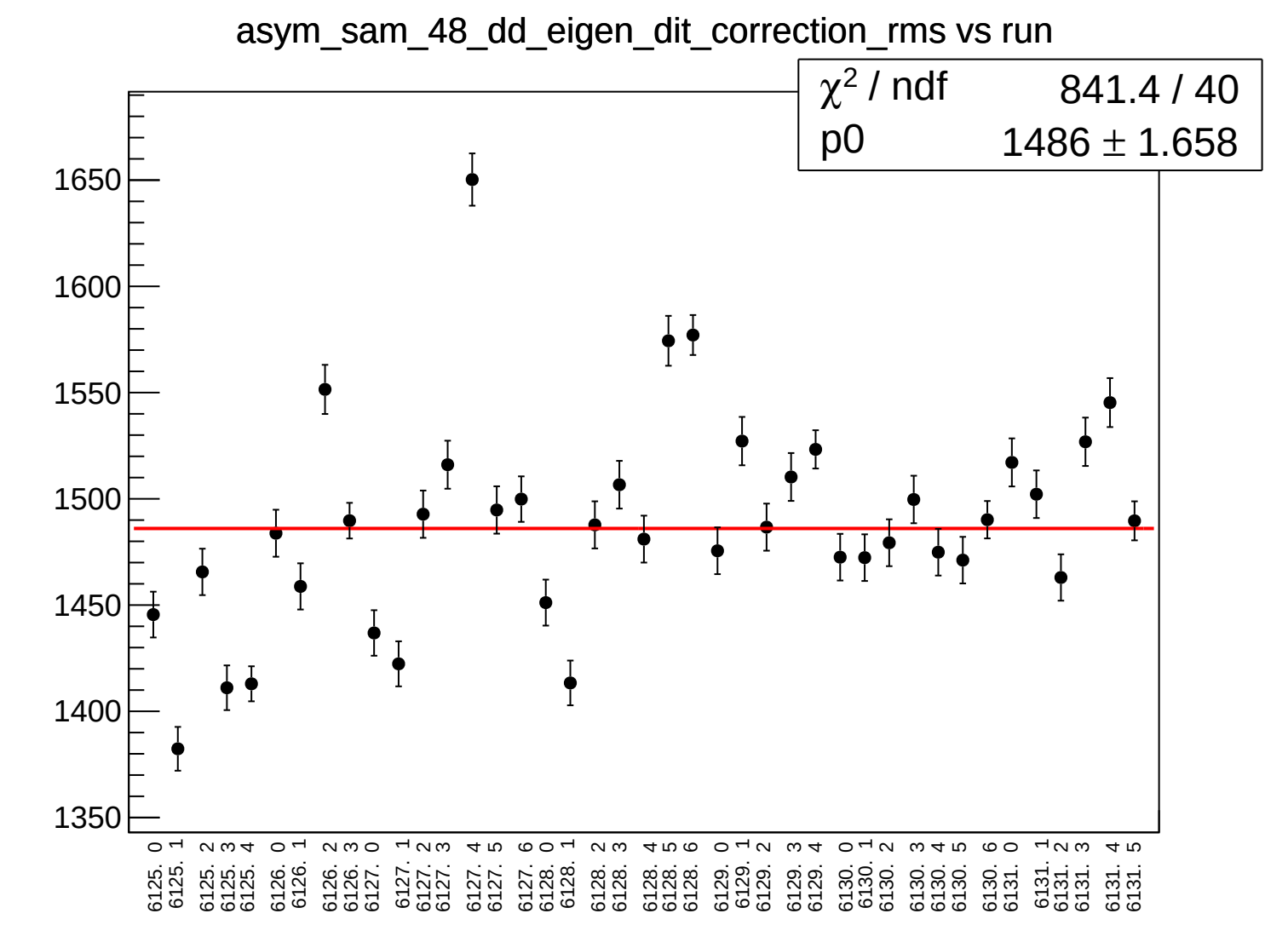

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 47.43 / 40
p0 178.1 ± 194.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 34.93
Std Dev 3.412
1.5
1
0.5
0
−0.5
−1
−1.5
−2

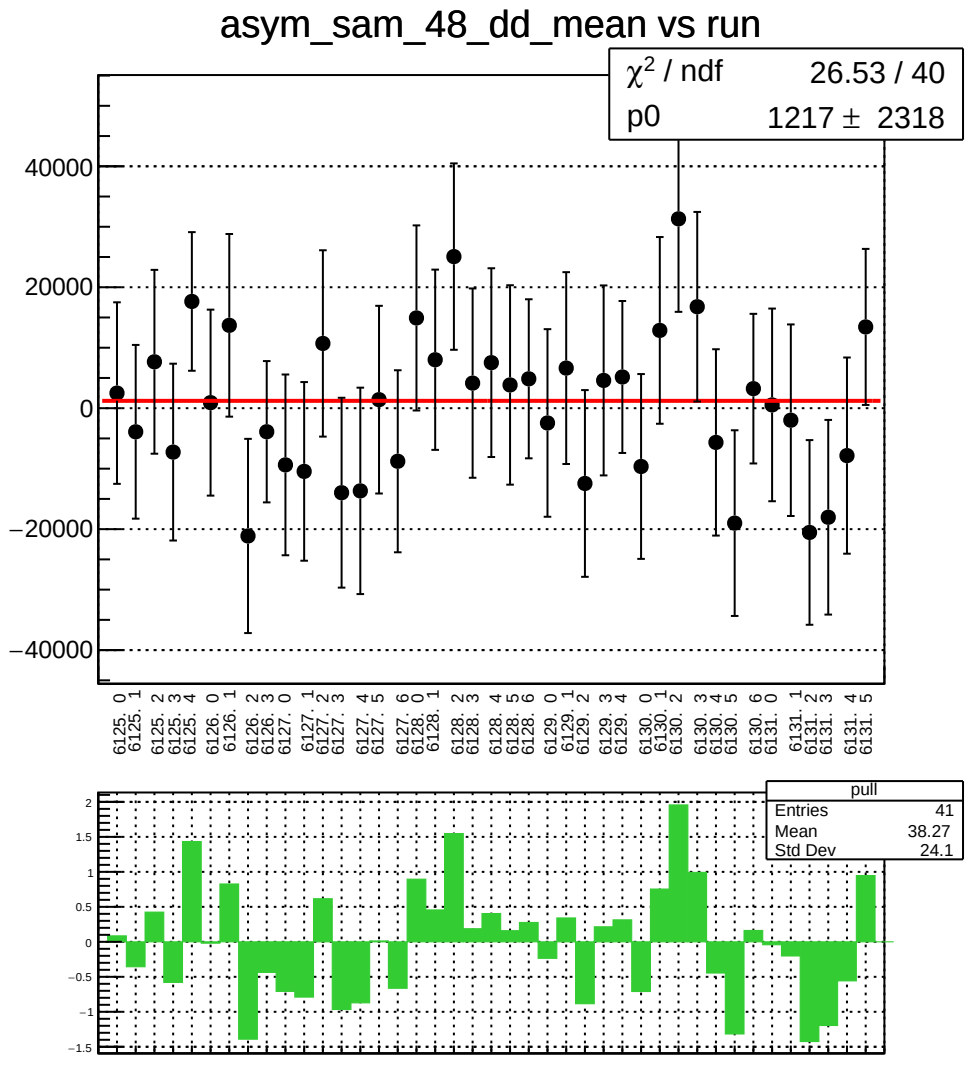

pull1D
Entries 41
Mean 0.0457
Std Dev 1.075
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

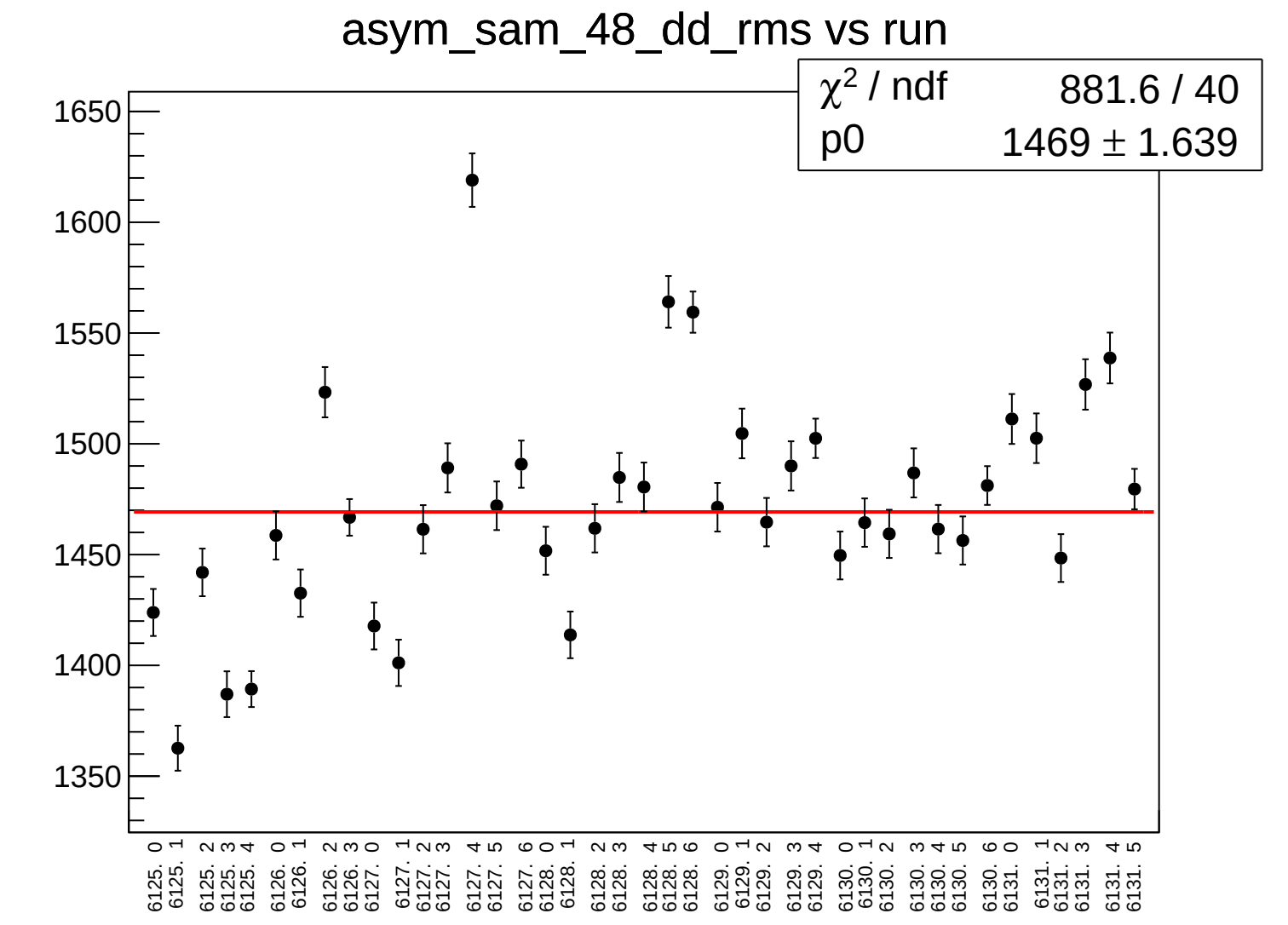

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 361 / 40
p0 123.3 ± 0.1375
136
134
132
130
128
126
124
122
120
118
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

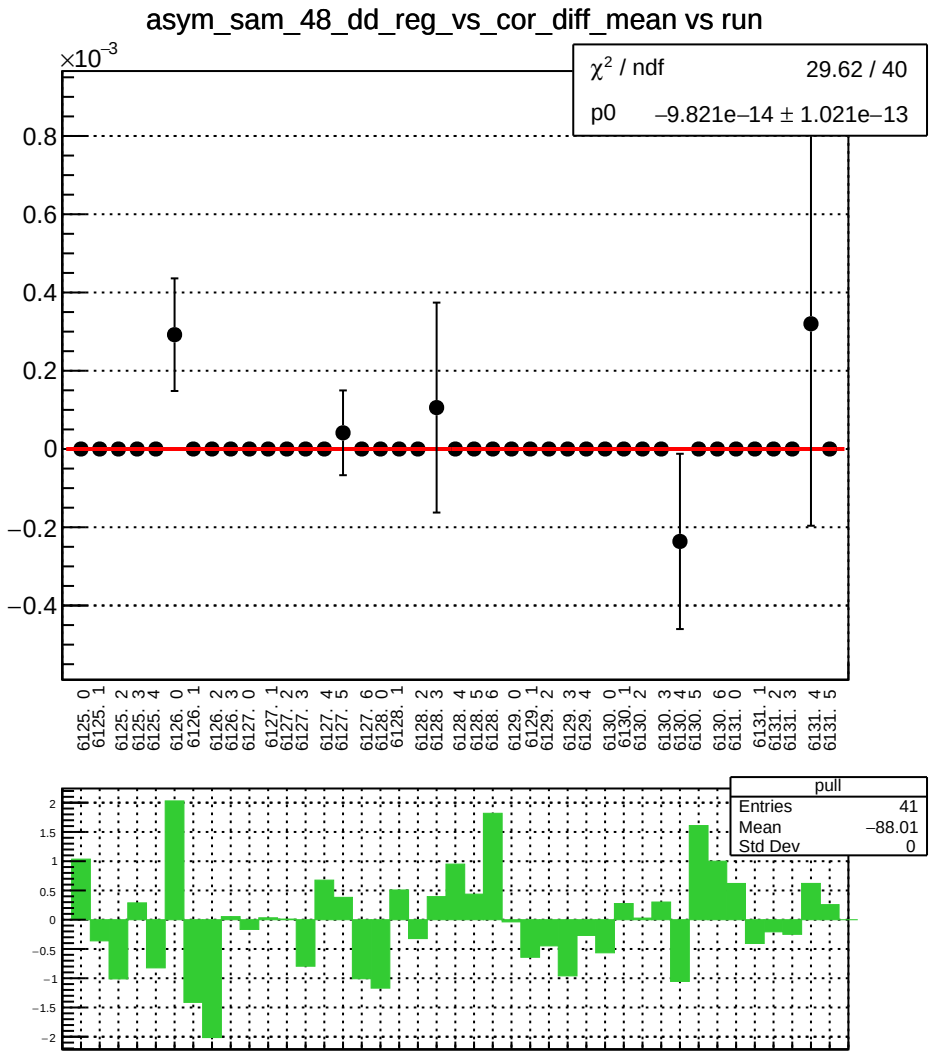

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 26.83 / 40
p0 −1035 ± 2345
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 38.18
Std Dev 21.89
1.5
1
0.5
0
−0.5
−1
−1.5
−2

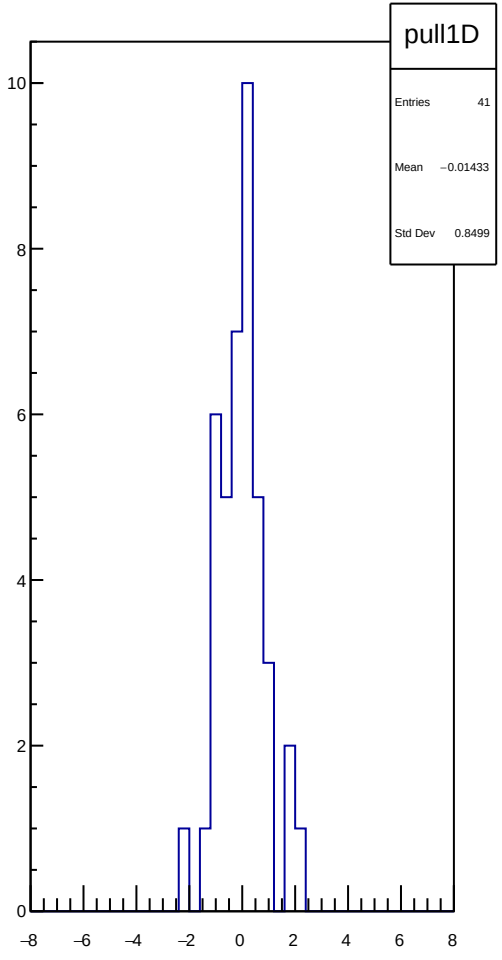

pull1D
Entries 41
Mean 0.0227
Std Dev 0.8086
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

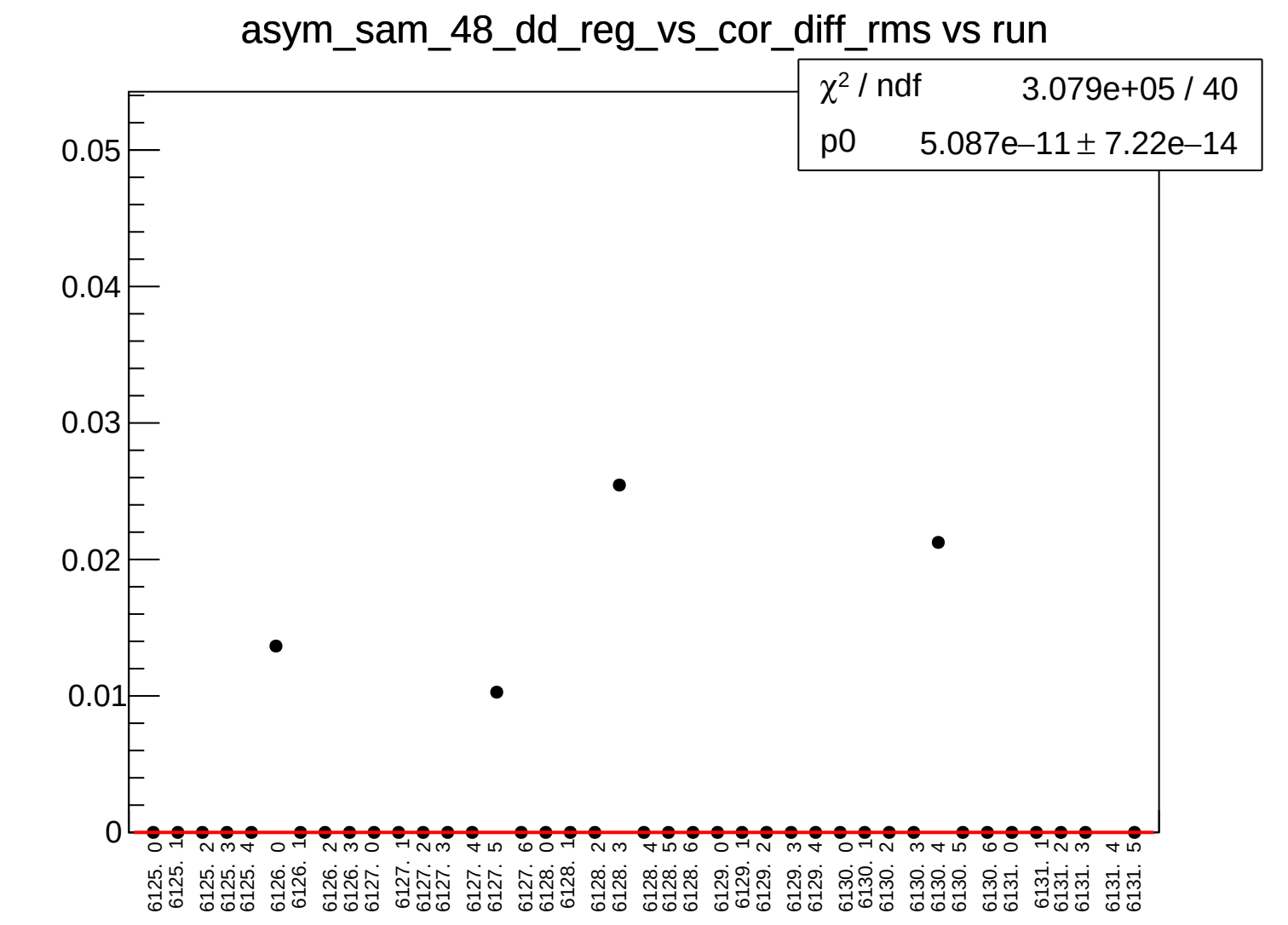

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 841.4 / 40
p0 1486 ± 1.658
1650
1600
1550
1500
1450
1400
1350
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

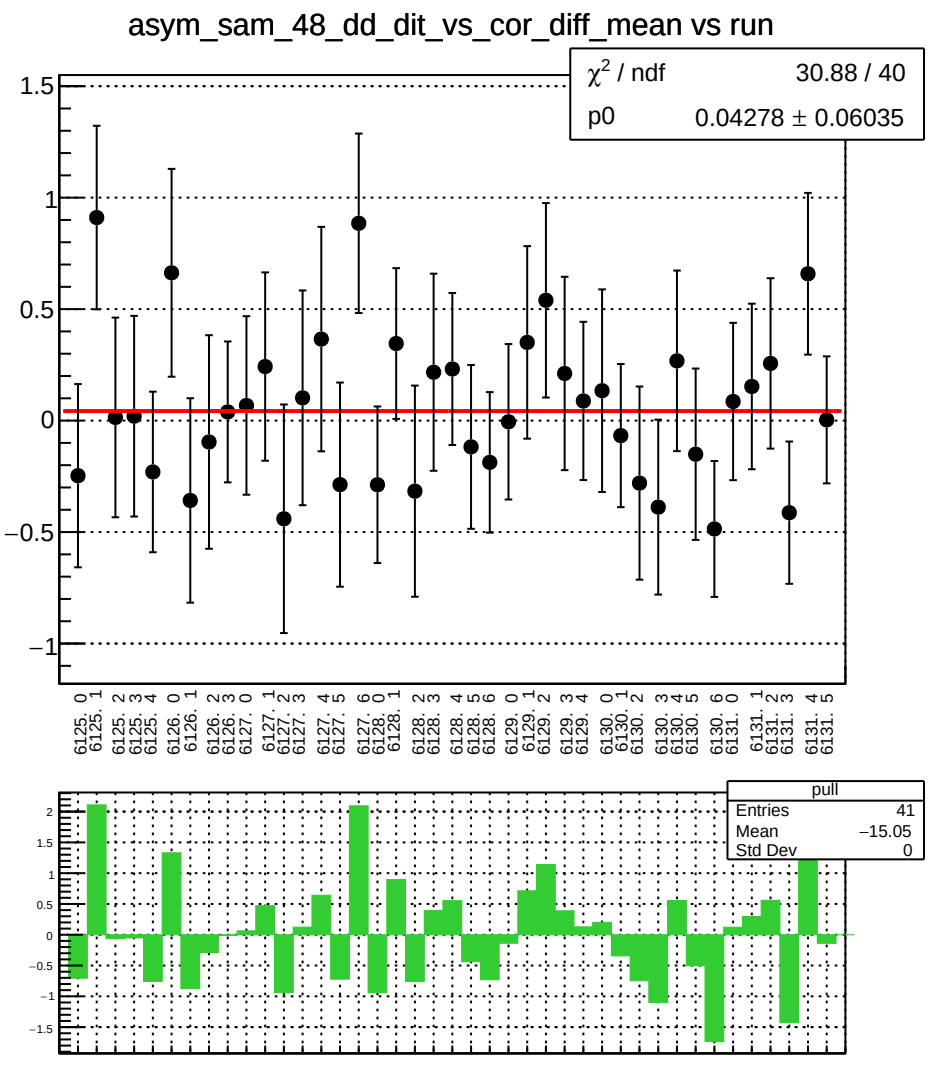

asym_sam_48_dd_mean vs run
χ² / ndf 26.53 / 40
p0 1217 ± 2318
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 38.27
Std Dev 24.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.0193
Std Dev 0.8042
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

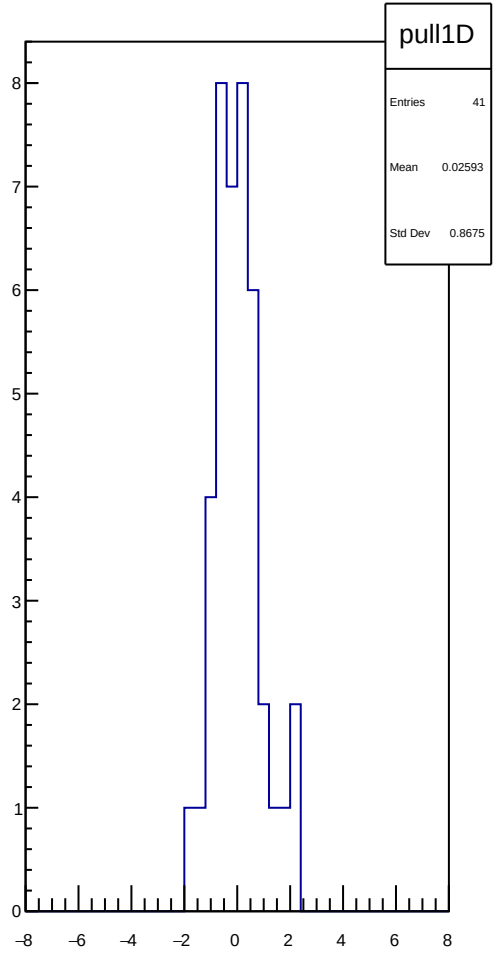

asym_sam_48_dd_rms vs run
χ² / ndf 881.6 / 40
p0 1469 ± 1.639
1650
1600
1550
1500
1450
1400
1350
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

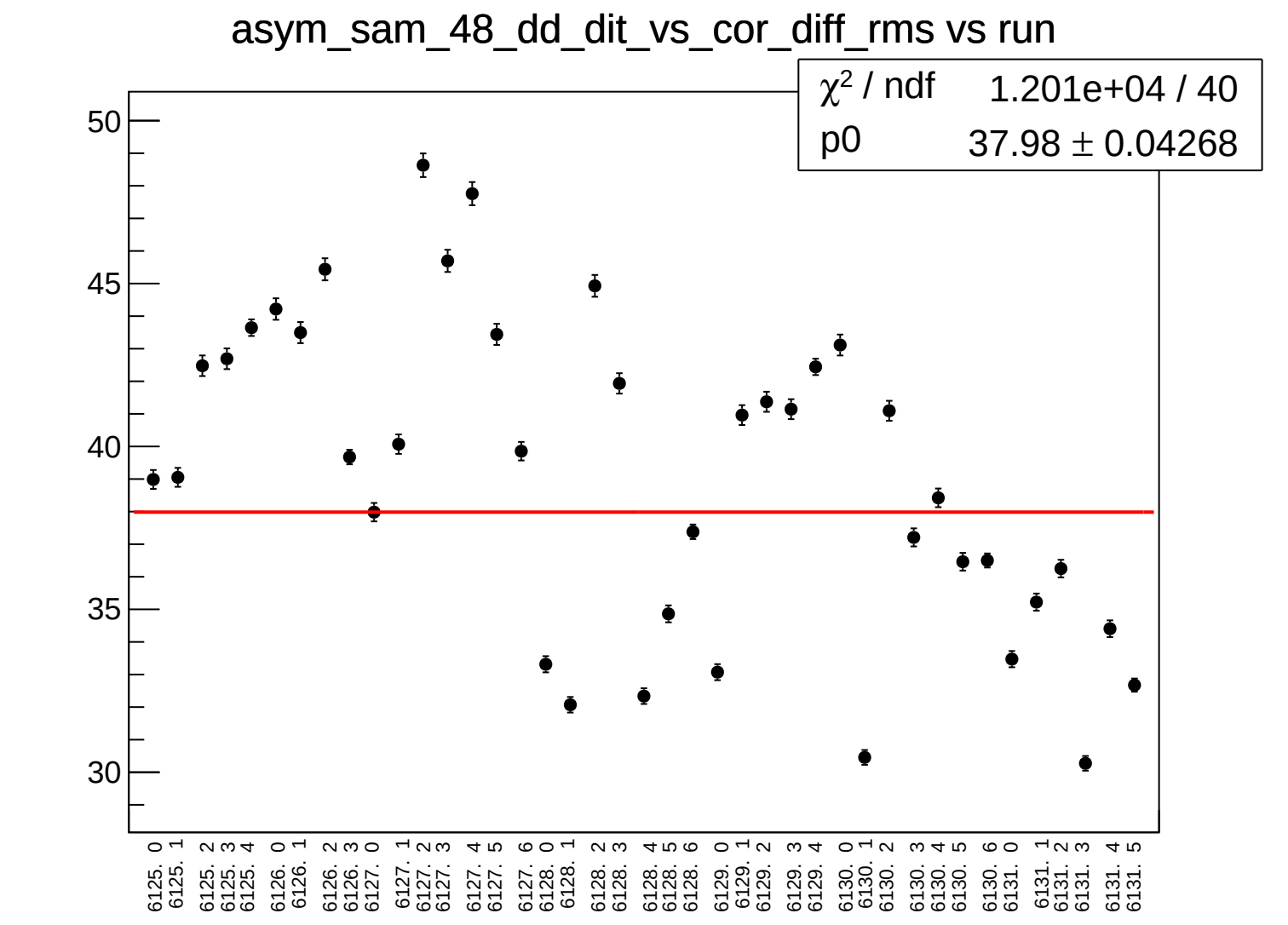

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 29.62 / 40
p0 −9.821e−14 ± 1.021e−13
0.8
0.6
0.4
0.2
0
−0.2
−0.4
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −88.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

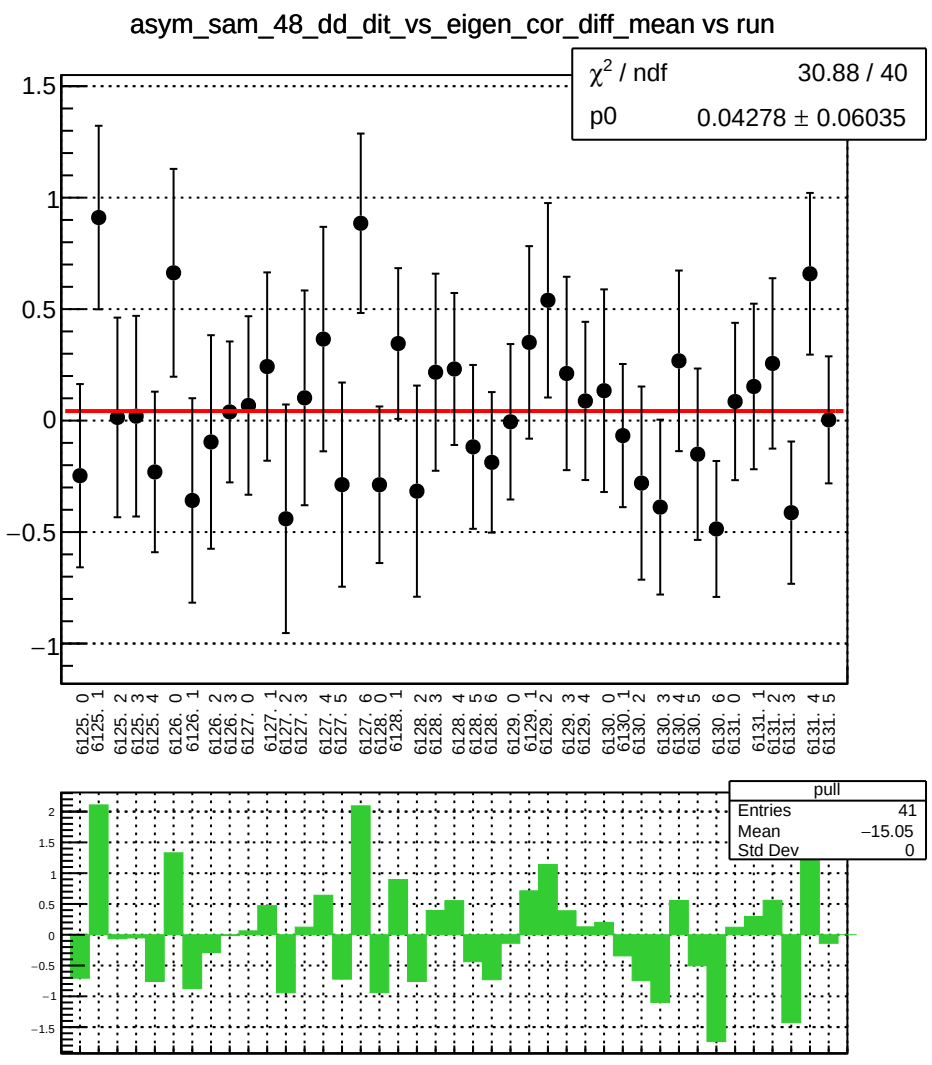

pull1D
Entries 41
Mean −0.01433
Std Dev 0.8499
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

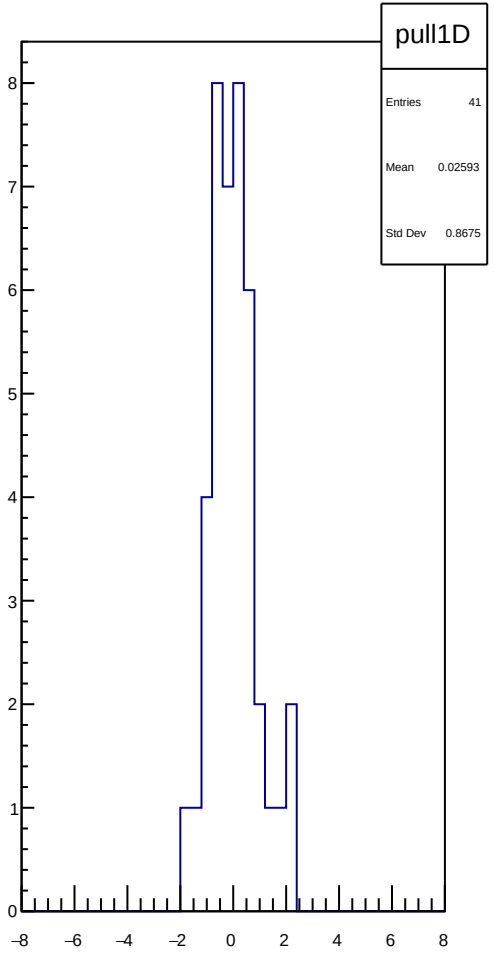

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.079e+05 / 40
p0 5.087e−11 ± 7.22e−14
0.05
0.04
0.03
0.02
0.01
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

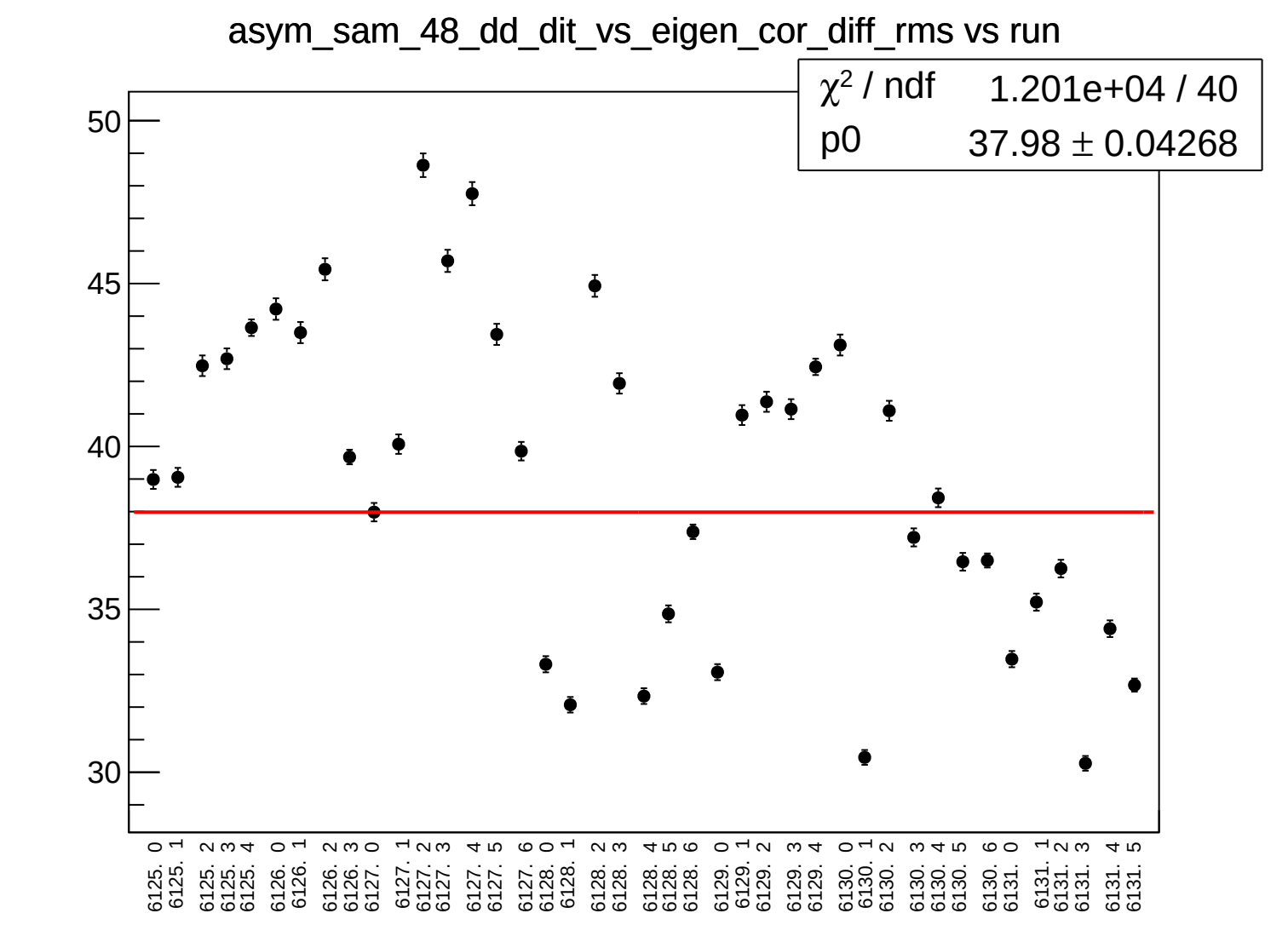

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 30.88 / 40
p0 0.04278 ± 0.06035
pull
Entries 41
Mean −15.05
Std Dev 0

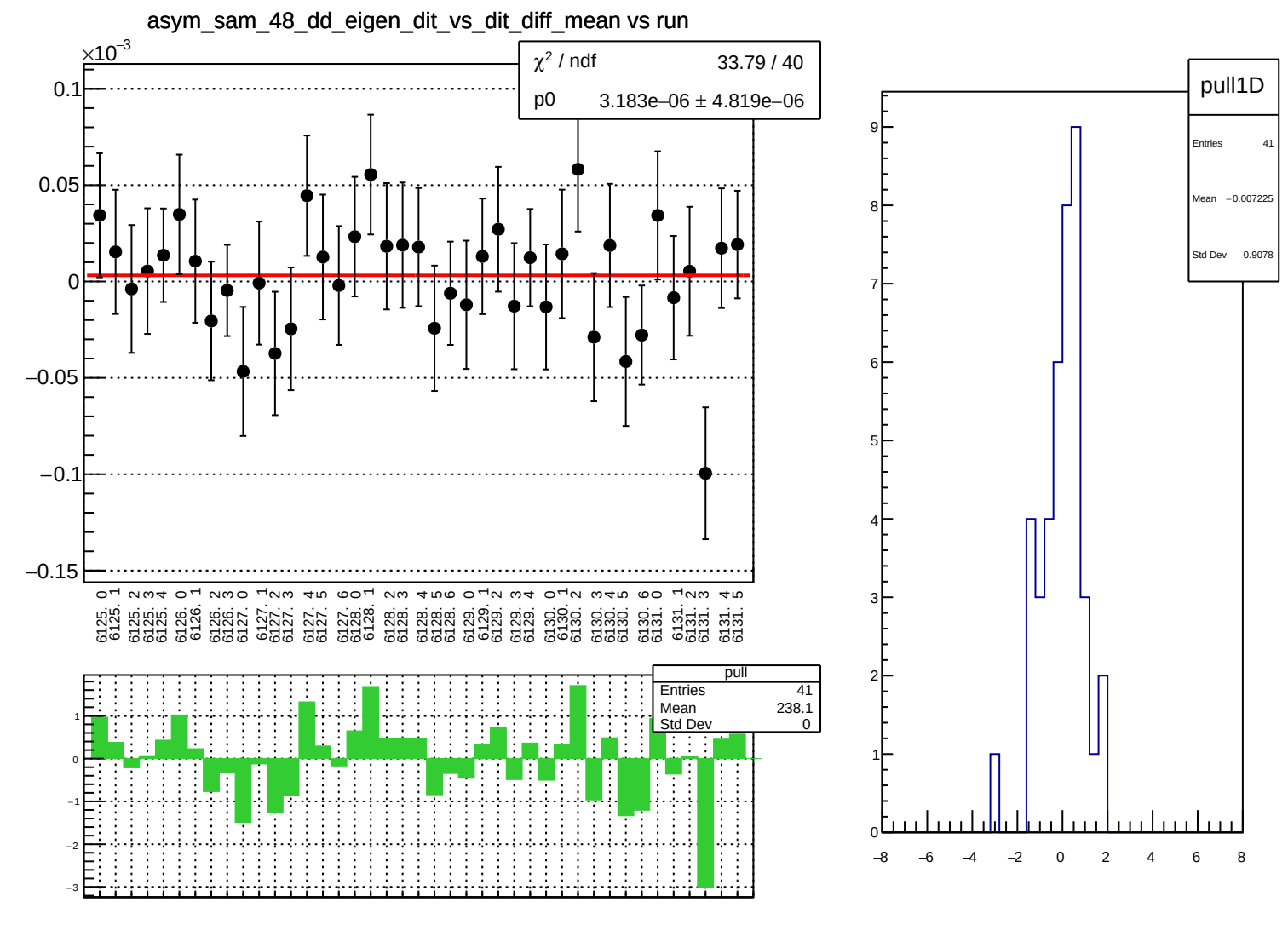

pull1D
Entries 41
Mean 0.02593
Std Dev 0.8675

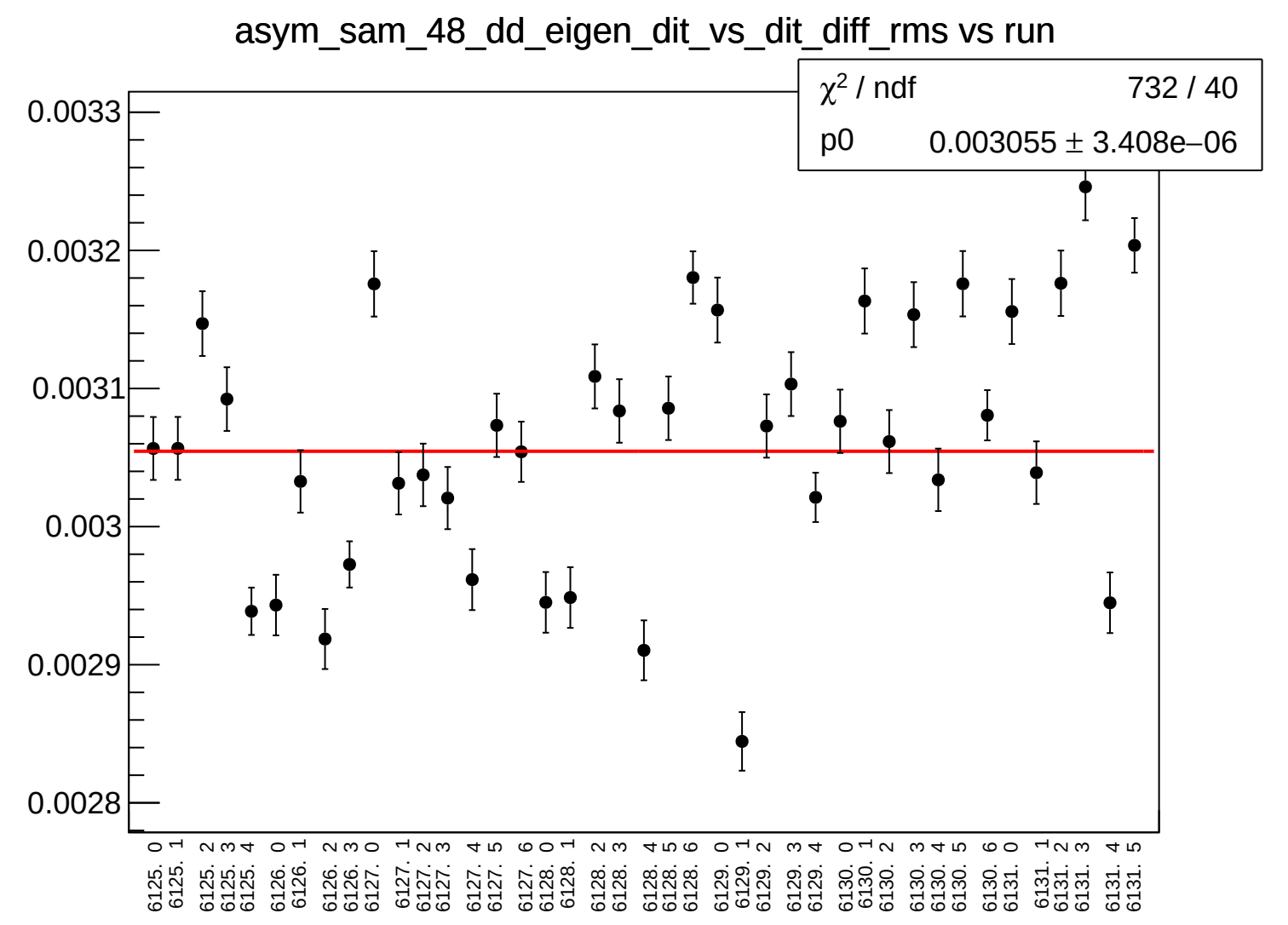

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.201e+04 / 40
p0 37.98 ± 0.04268
50
45
40
35
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

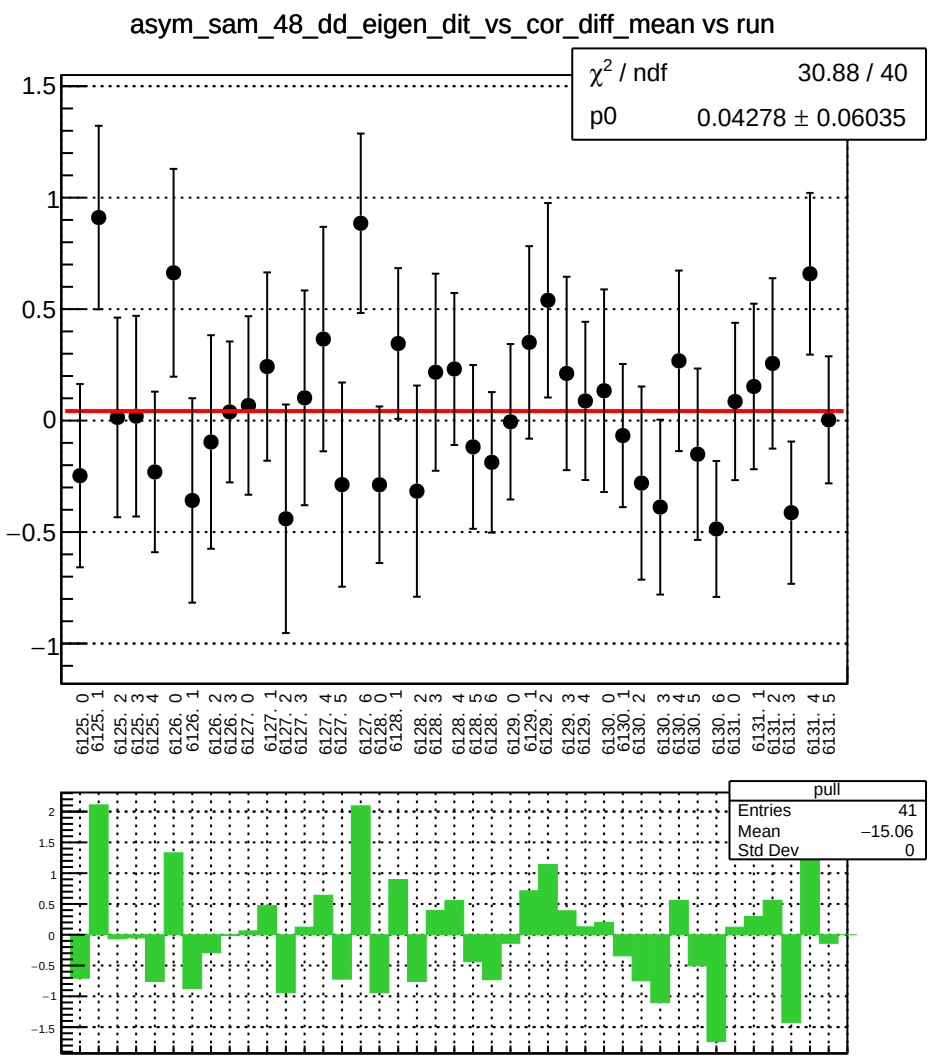

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.88 / 40
p0 0.04278 ± 0.06035
pull
Entries 41
Mean −15.05
Std Dev 0

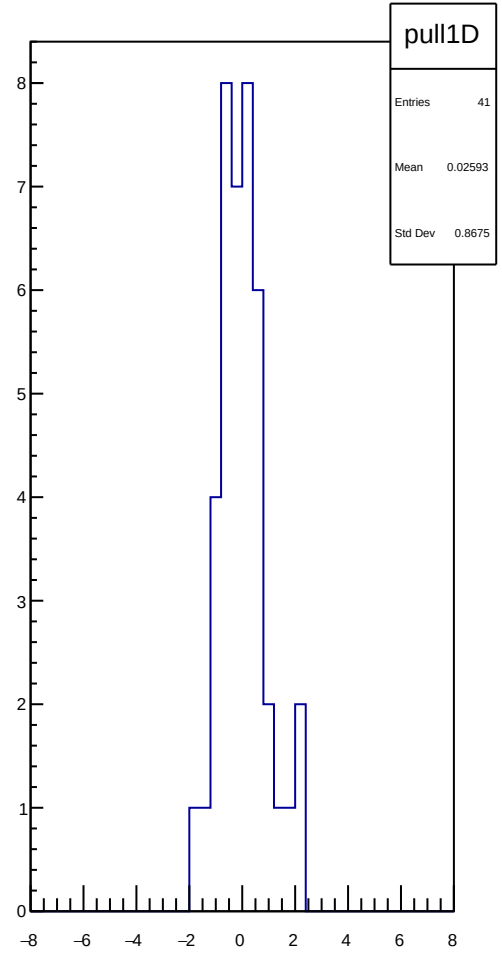

pull1D
Entries 41
Mean 0.02593
Std Dev 0.8675

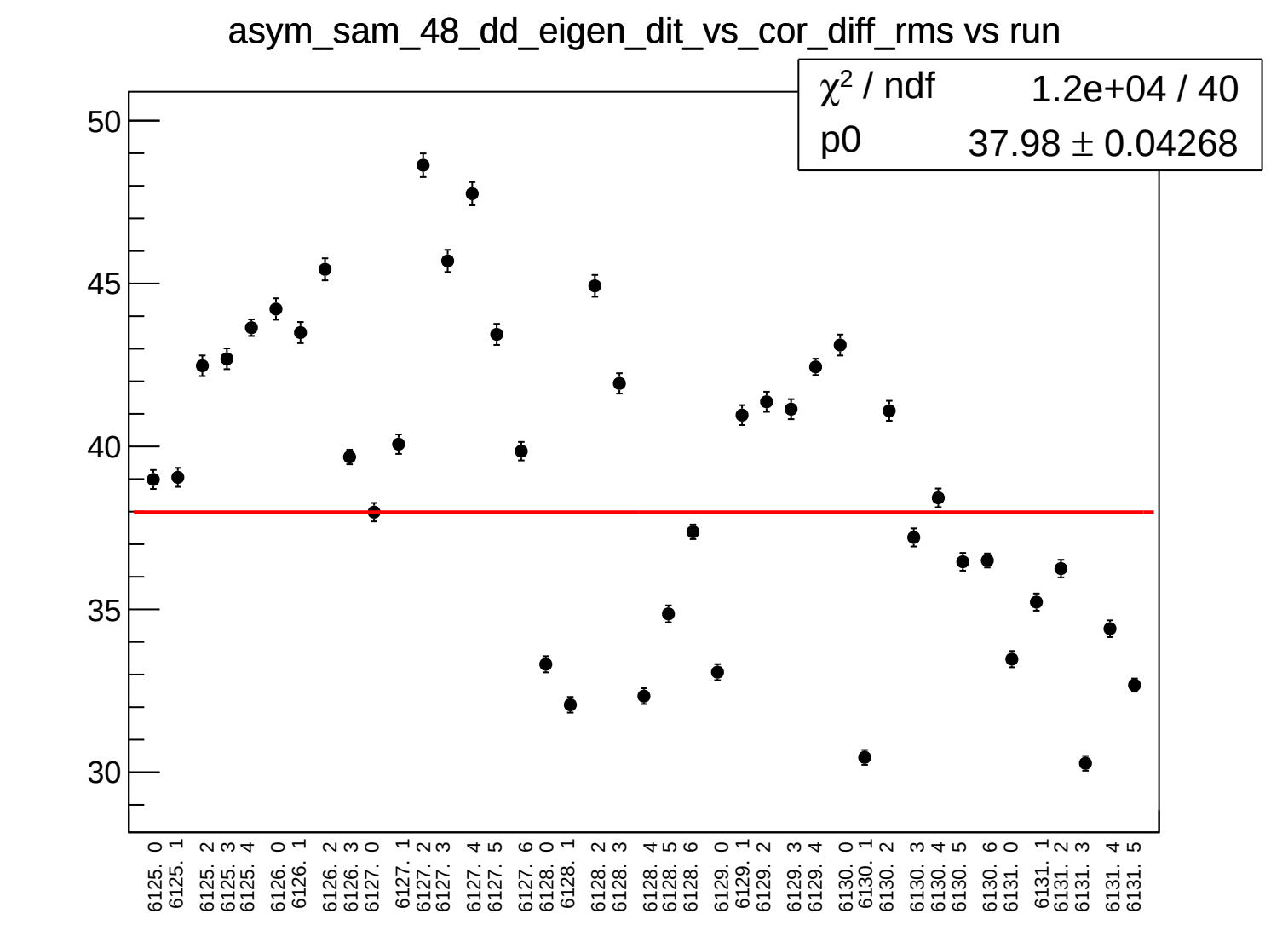

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.201e+04 / 40
p0 37.98 ± 0.04268
50
45
40
35
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

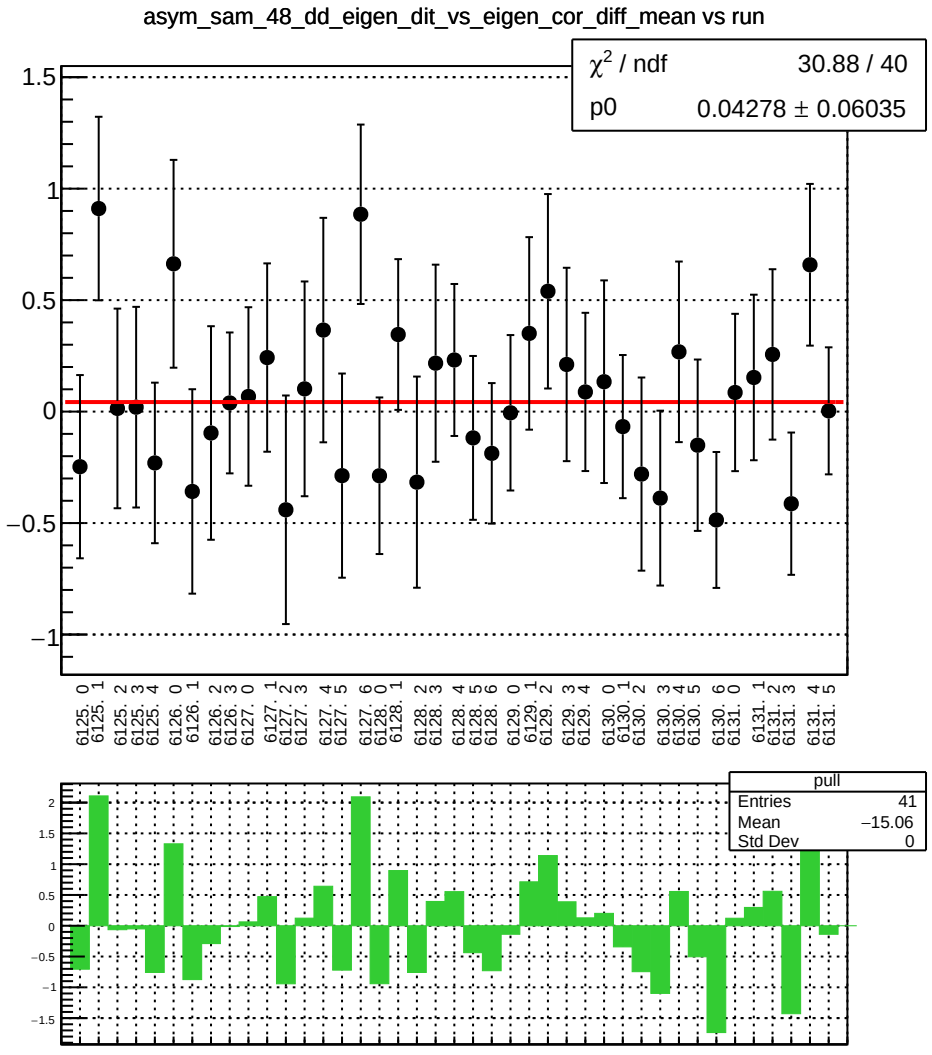

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 33.79 / 40
p0 3.183e−06 ± 4.819e−06
0.1
0.05
0
−0.05
−0.1
−0.15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 238.1
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 41
Mean −0.007225
Std Dev 0.9078
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

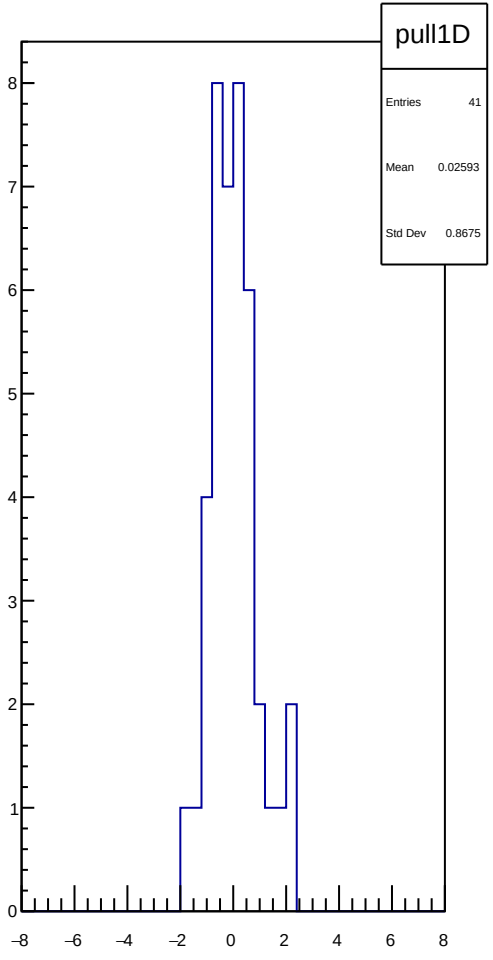

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 732 / 40
p0 0.003055 ± 3.408e−06
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

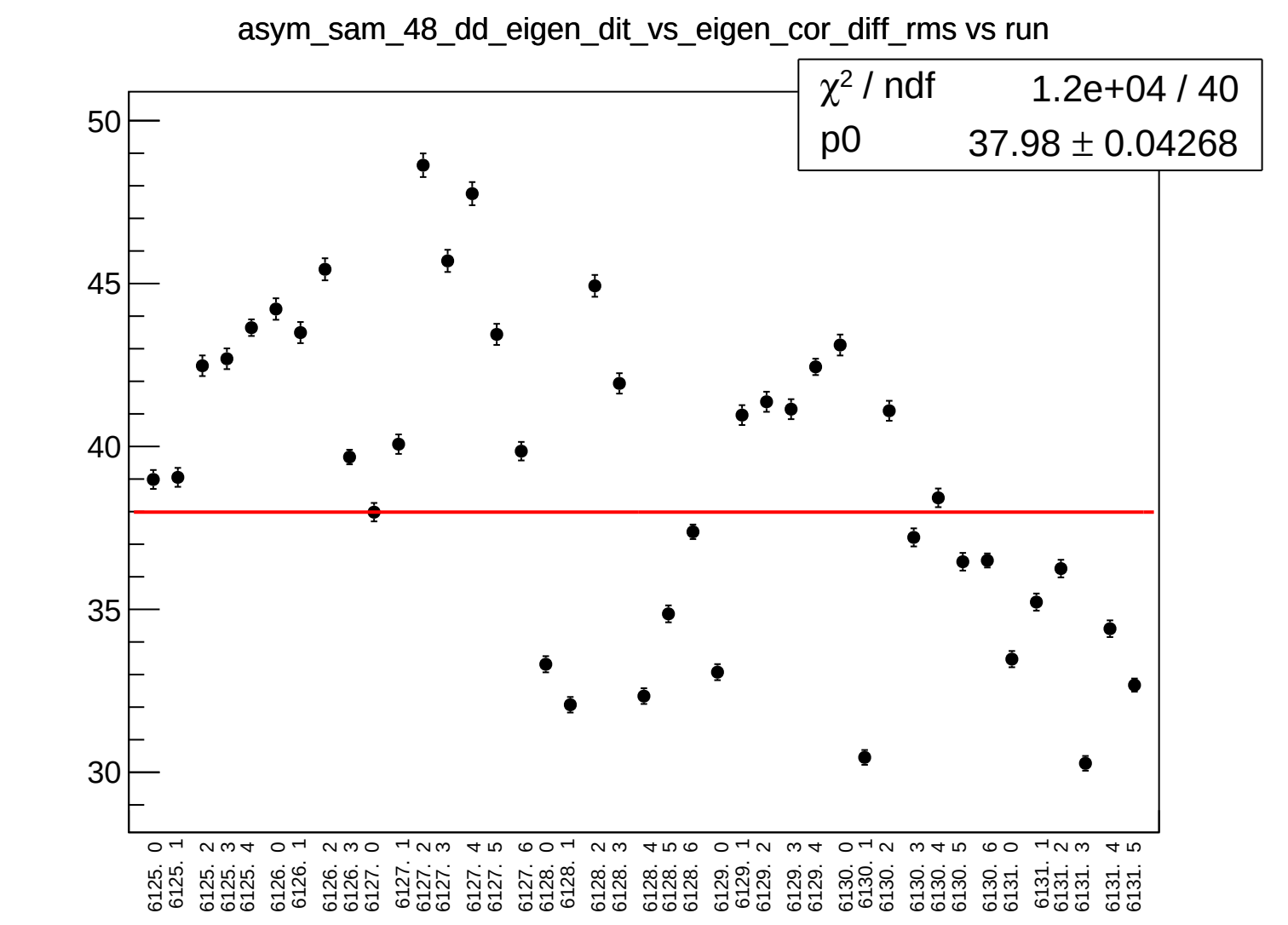

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 30.88 / 40
p0 0.04278 ± 0.06035
1.5
1
0.5
0
−0.5
−1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −15.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

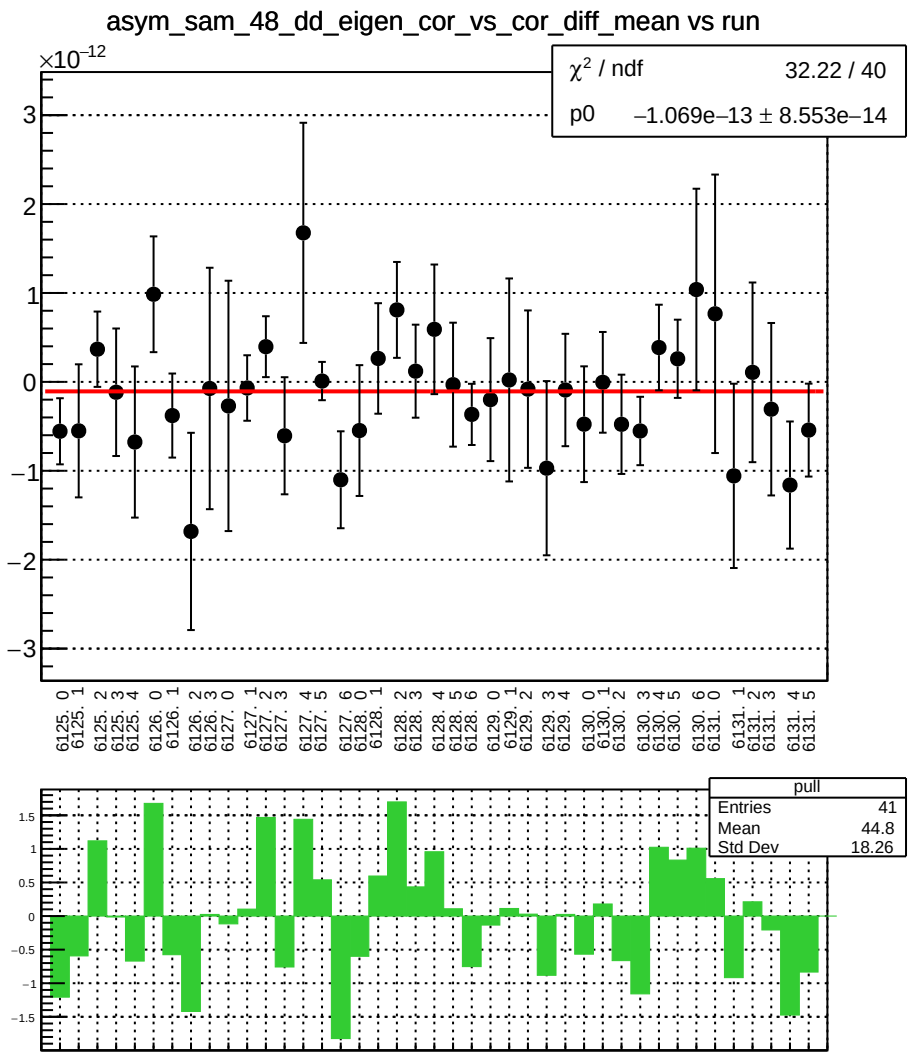

pull1D
Entries 41
Mean 0.02593
Std Dev 0.8675
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

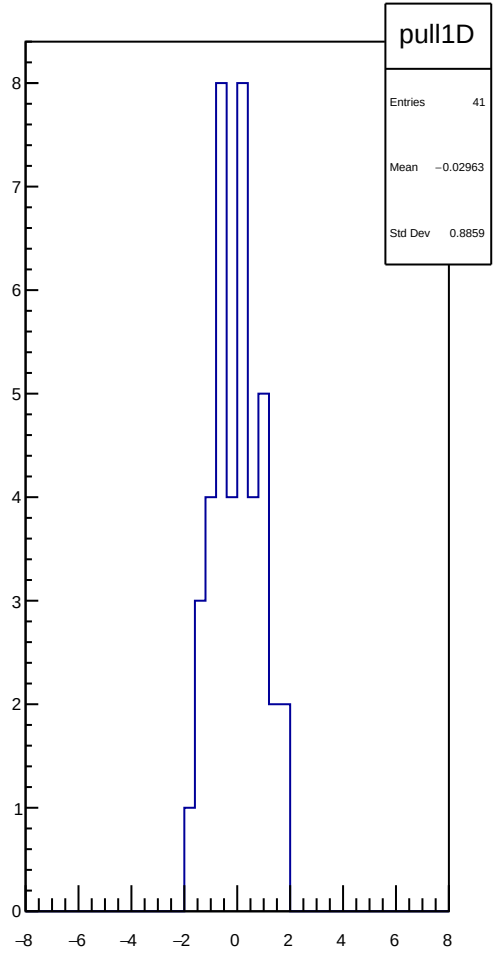

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.2e+04 / 40
p0 37.98 ± 0.04268
50
45
40
35
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

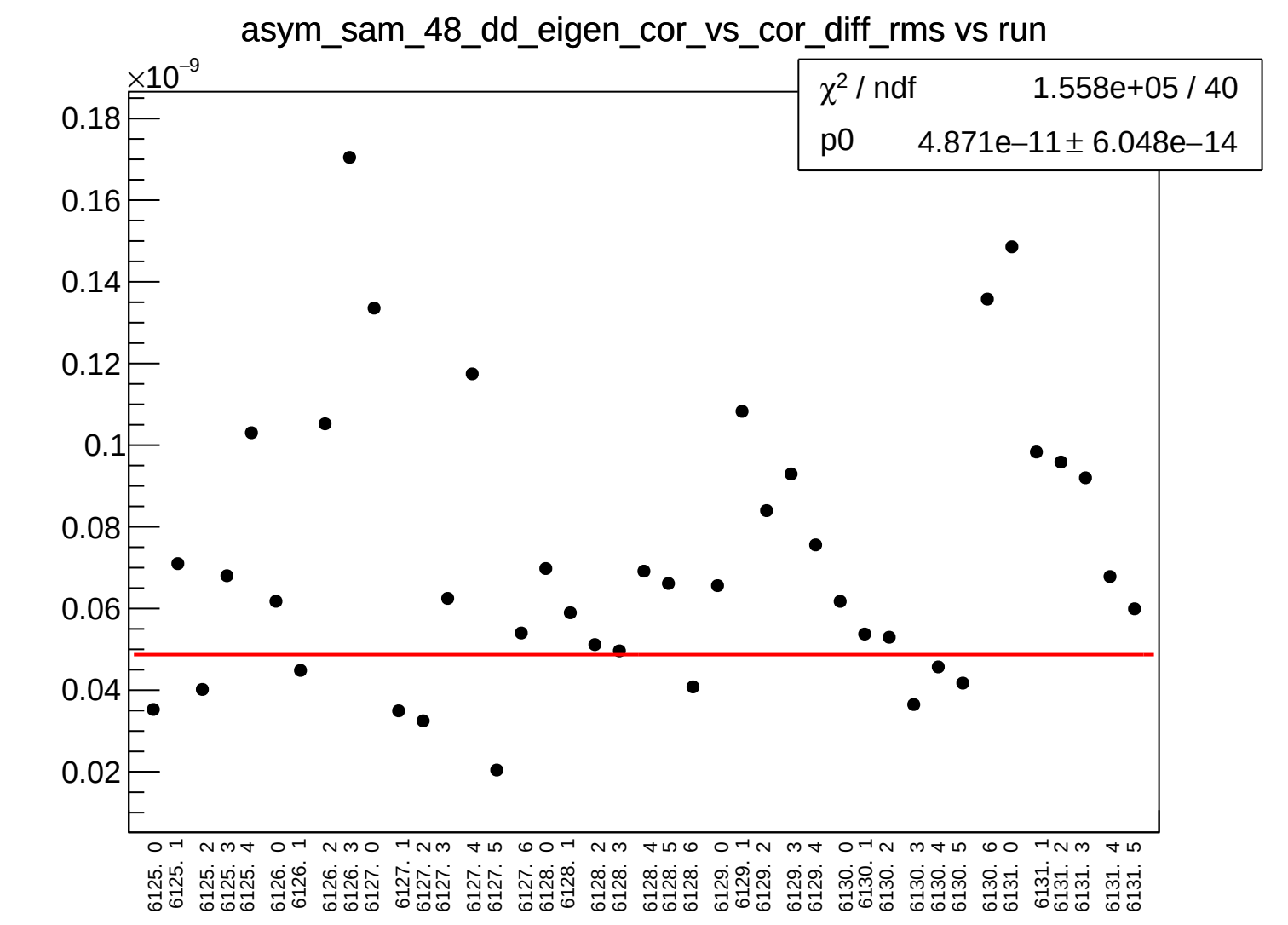

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.88 / 40
p0 0.04278 ± 0.06035
1.5
1
0.5
0
−0.5
−1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −15.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

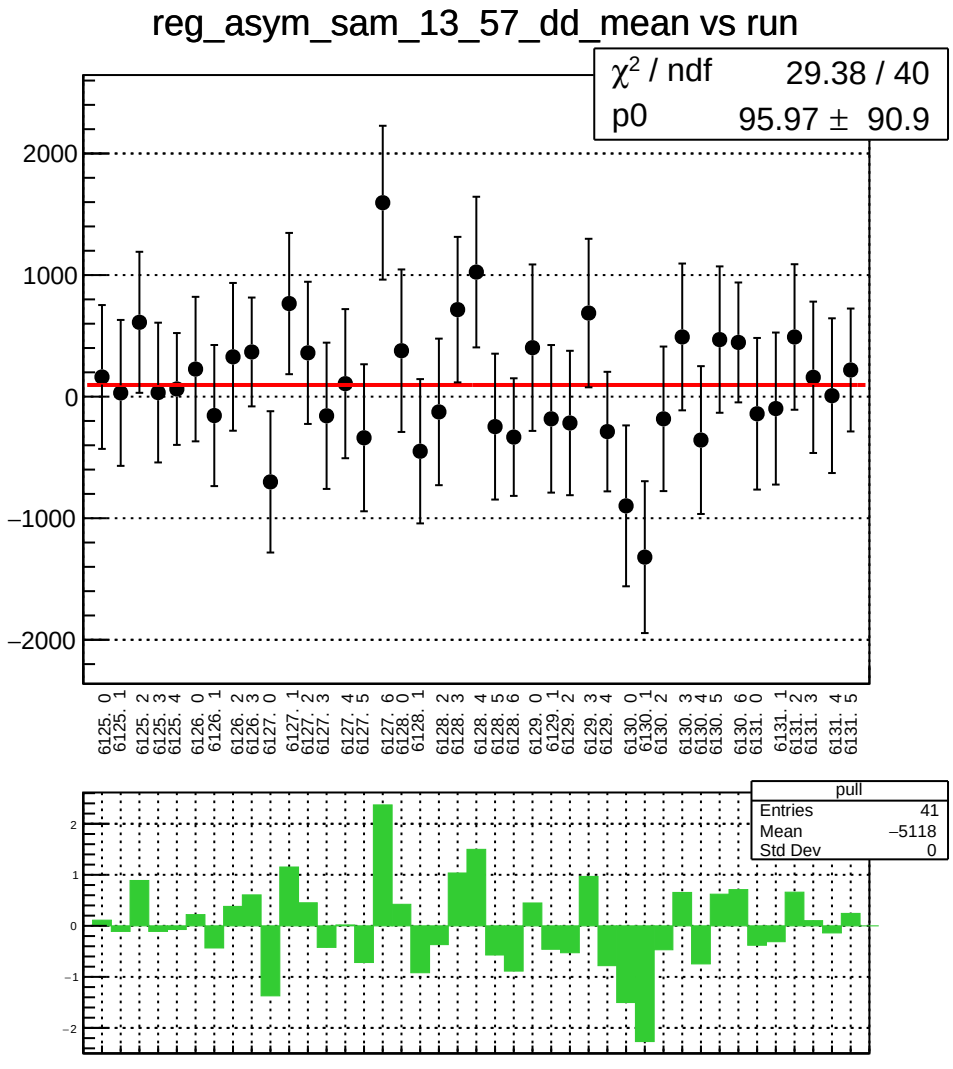

pull1D
Entries 41
Mean 0.02593
Std Dev 0.8675
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

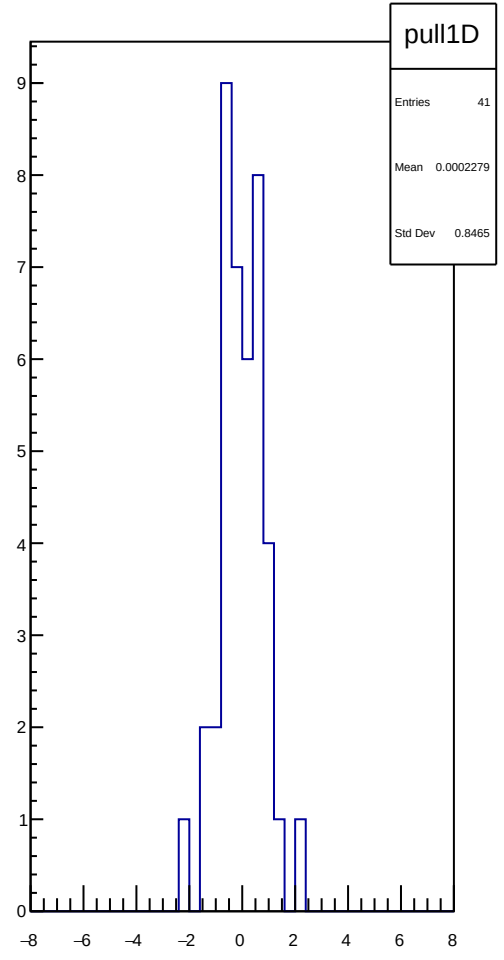

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.2e+04 / 40
p0 37.98 ± 0.04268
50
45
40
35
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

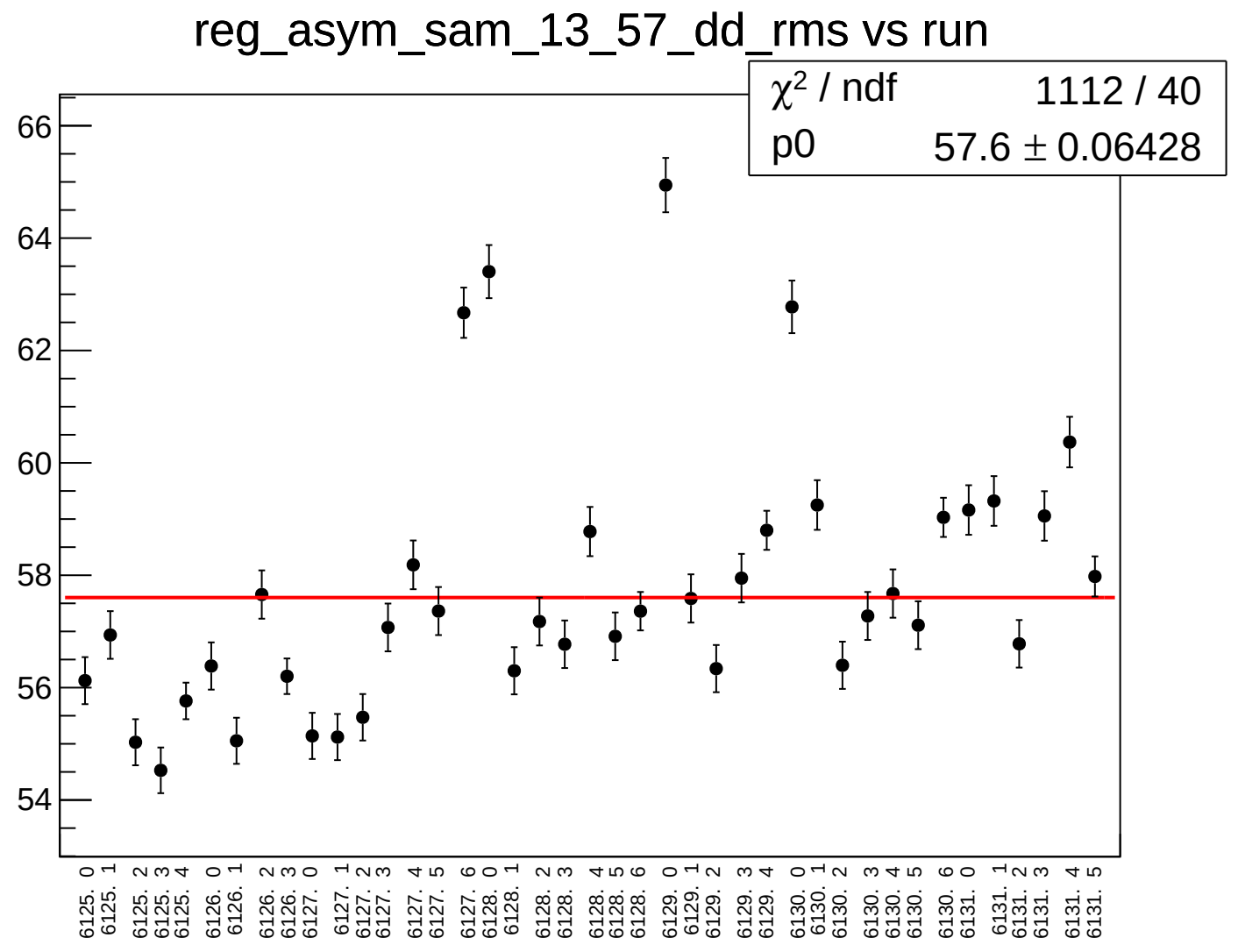

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.22 / 40
p0 −1.069e−13 ± 8.553e−14
pull
Entries 41
Mean 44.8
Std Dev 18.26

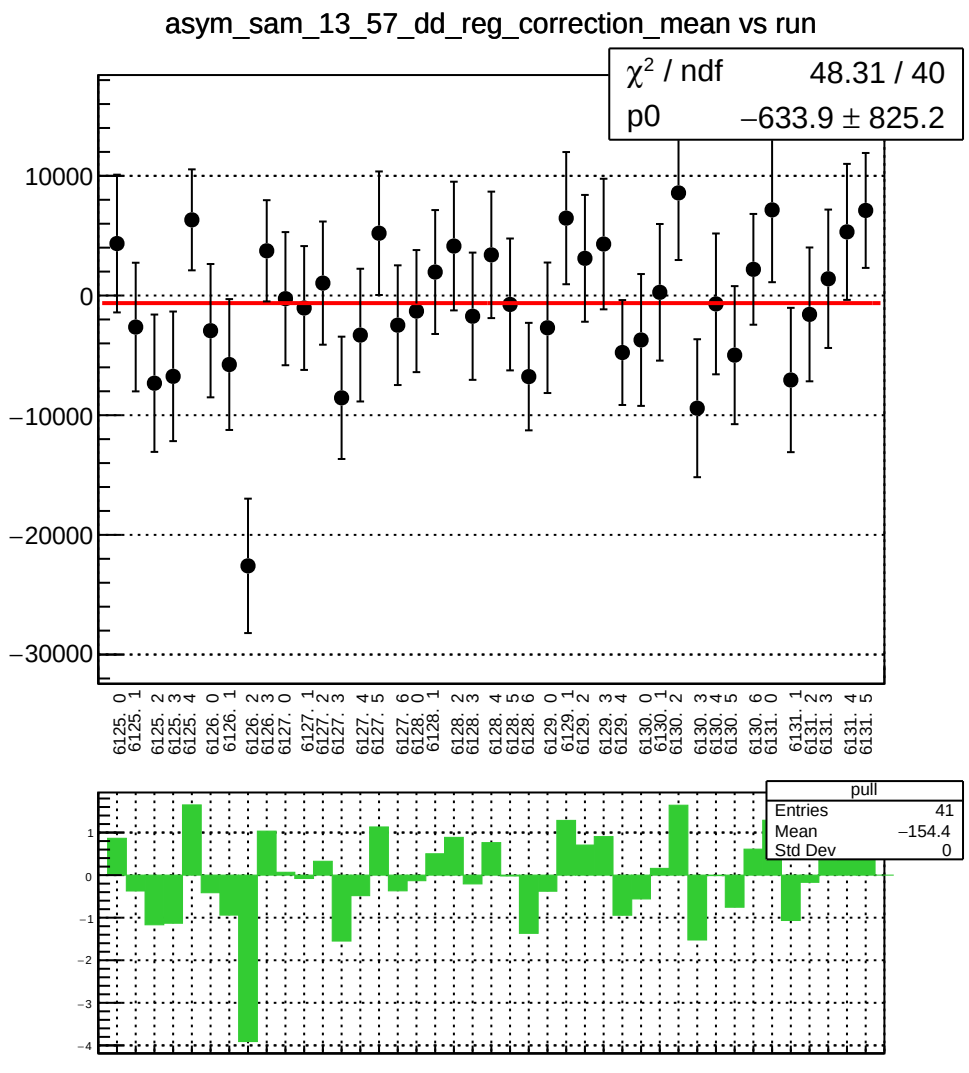

pull1D
Entries 41
Mean −0.02963
Std Dev 0.8859

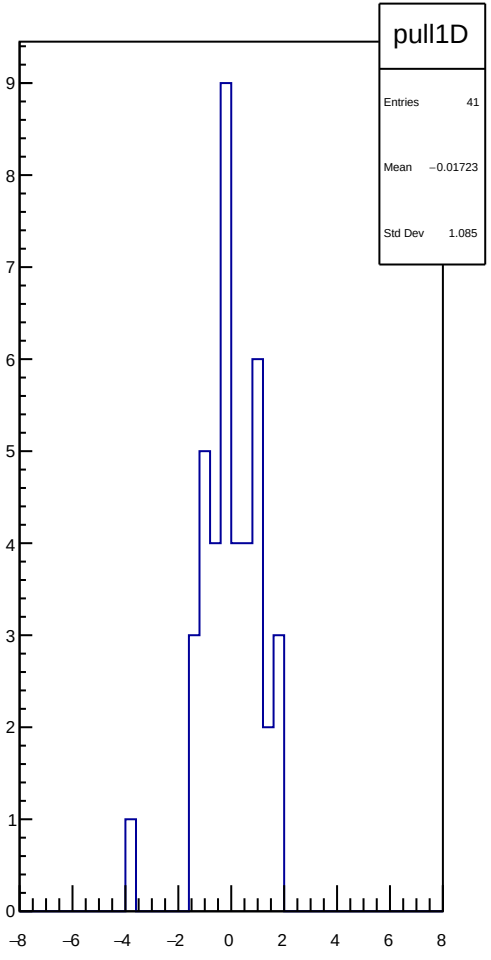

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.558e+05 / 40
p0 4.871e−11 ± 6.048e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

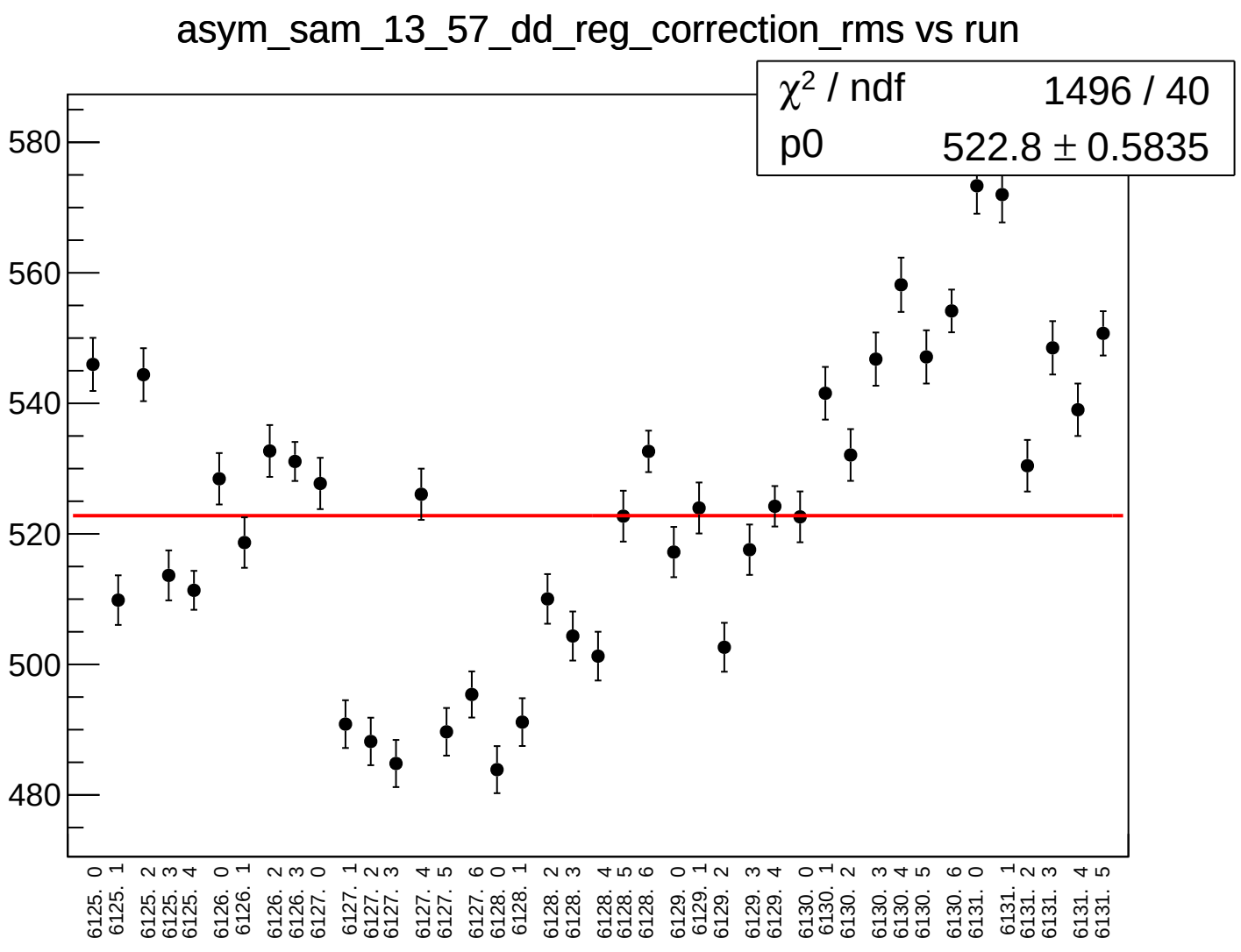

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 29.38 / 40
p0 95.97 ± 90.9
2000
1000
0
−1000
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −5118
Std Dev 0
2
1
0
−1
−2

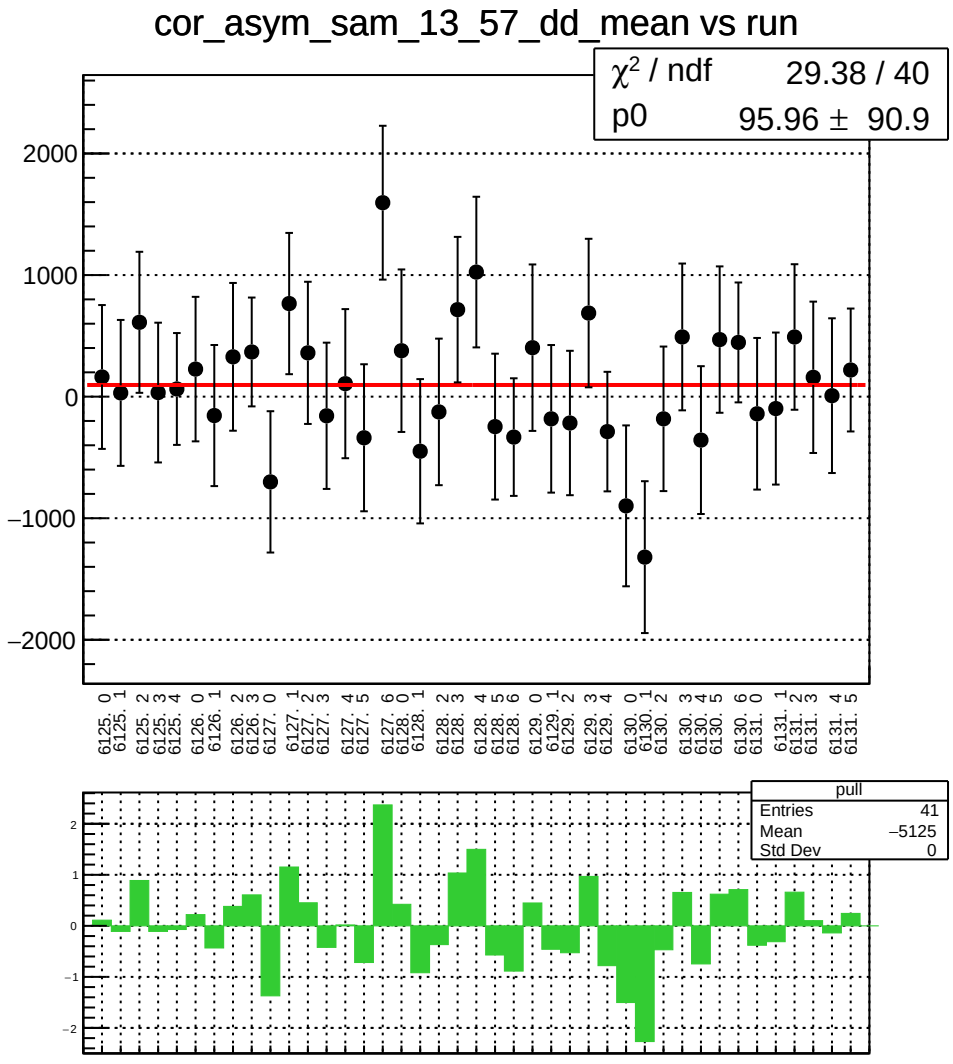

pull1D
Entries 41
Mean 0.0002279
Std Dev 0.8465
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

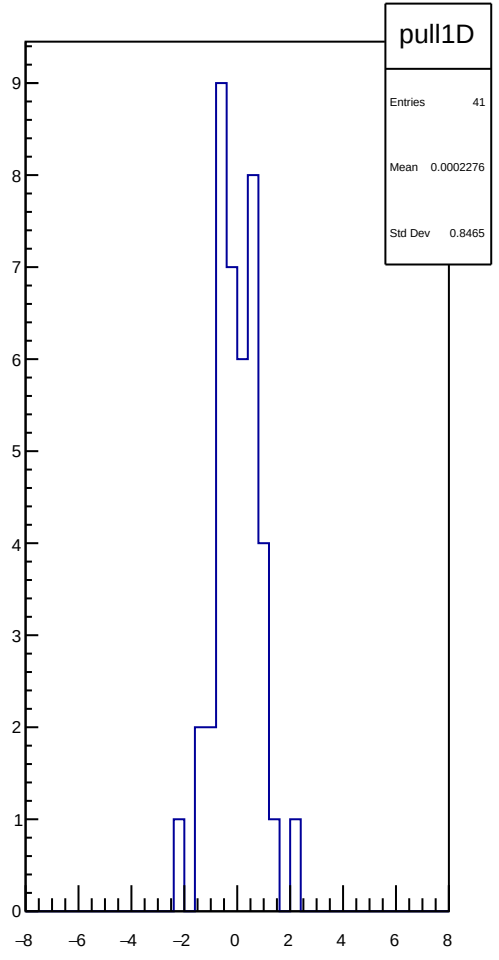

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 1112 / 40
p0 57.6 ± 0.06428
66
64
62
60
58
56
54
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

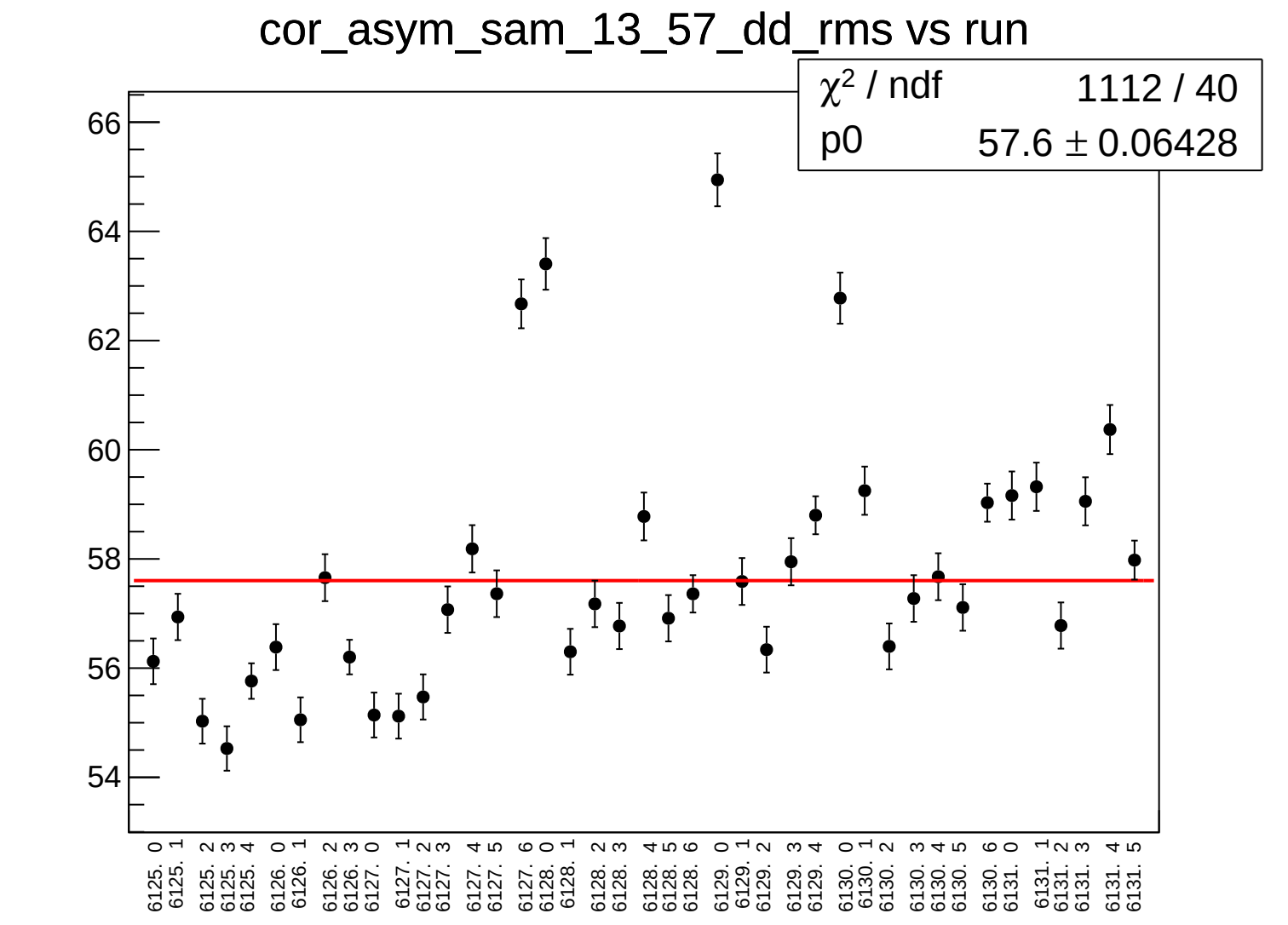

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 48.31 / 40
p0 −633.9 ± 825.2
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −154.4
Std Dev 0
1
0
−1
−2
−3
−4

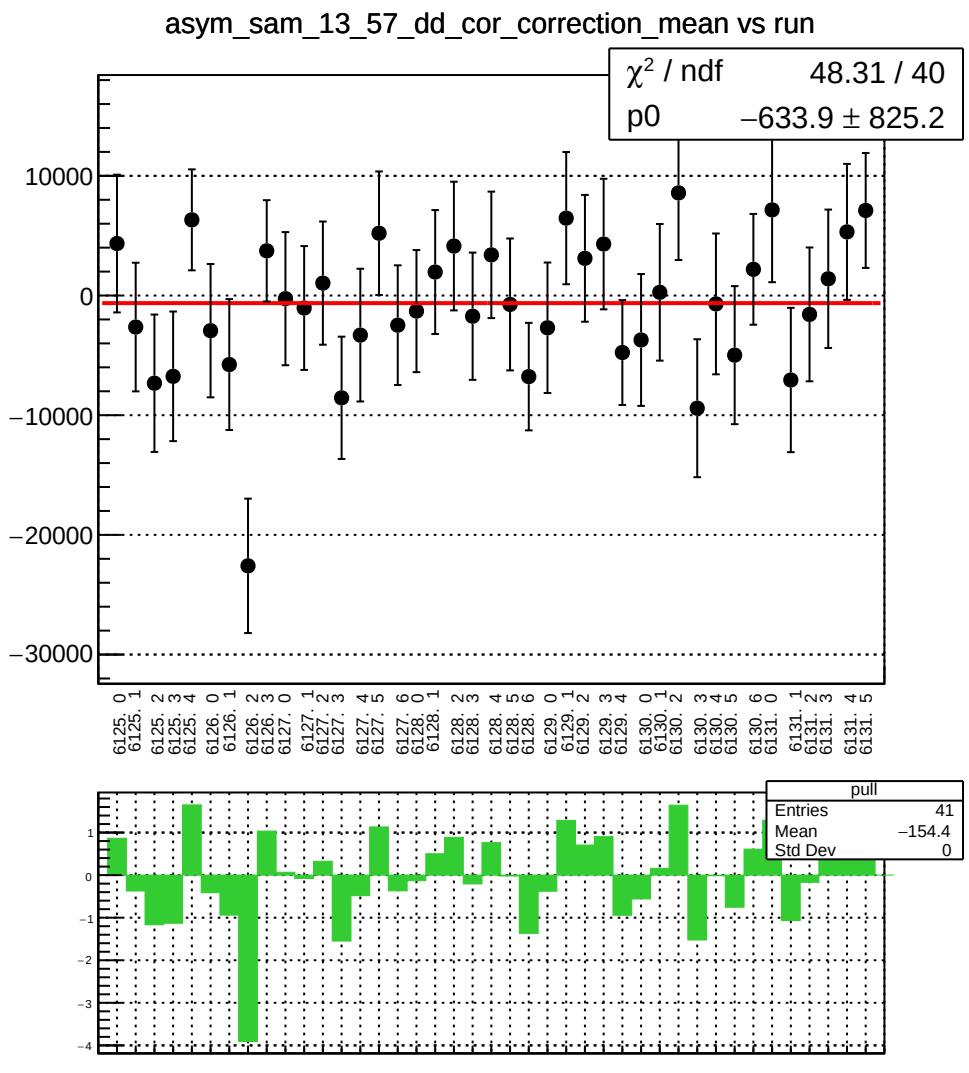

pull1D
Entries 41
Mean −0.01723
Std Dev 1.085
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

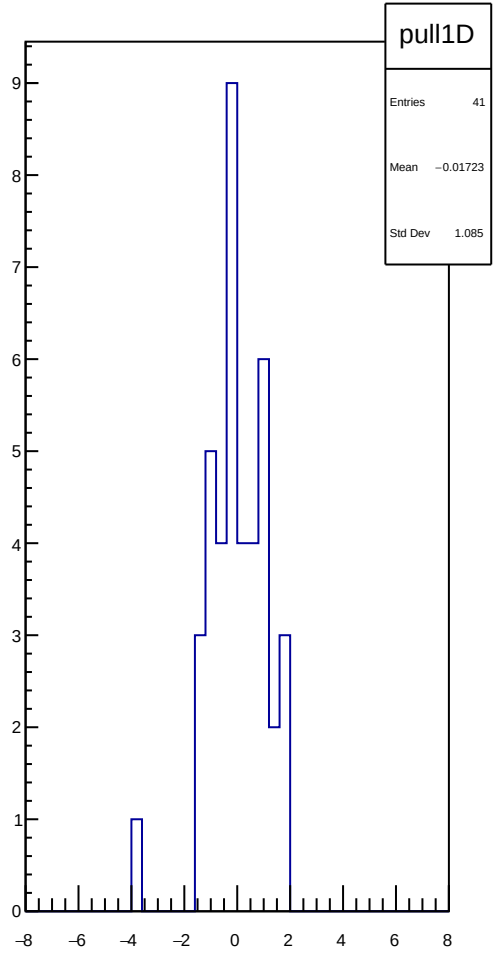

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 1496 / 40
p0 522.8 ± 0.5835
580
560
540
520
500
480
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

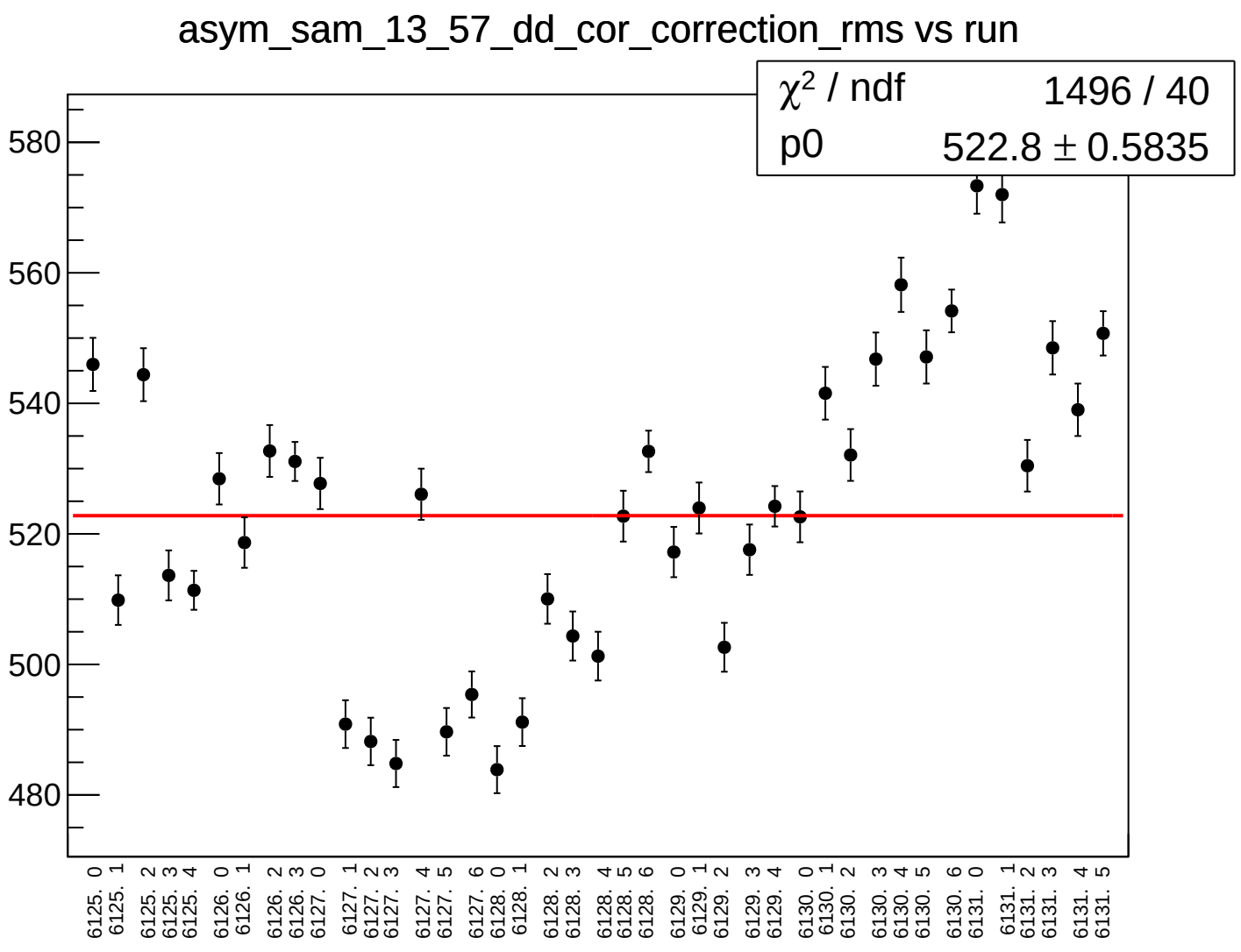

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 29.38 / 40
p0 95.96 ± 90.9
2000
1000
0
−1000
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −5125
Std Dev 0
2
1
0
−1
−2

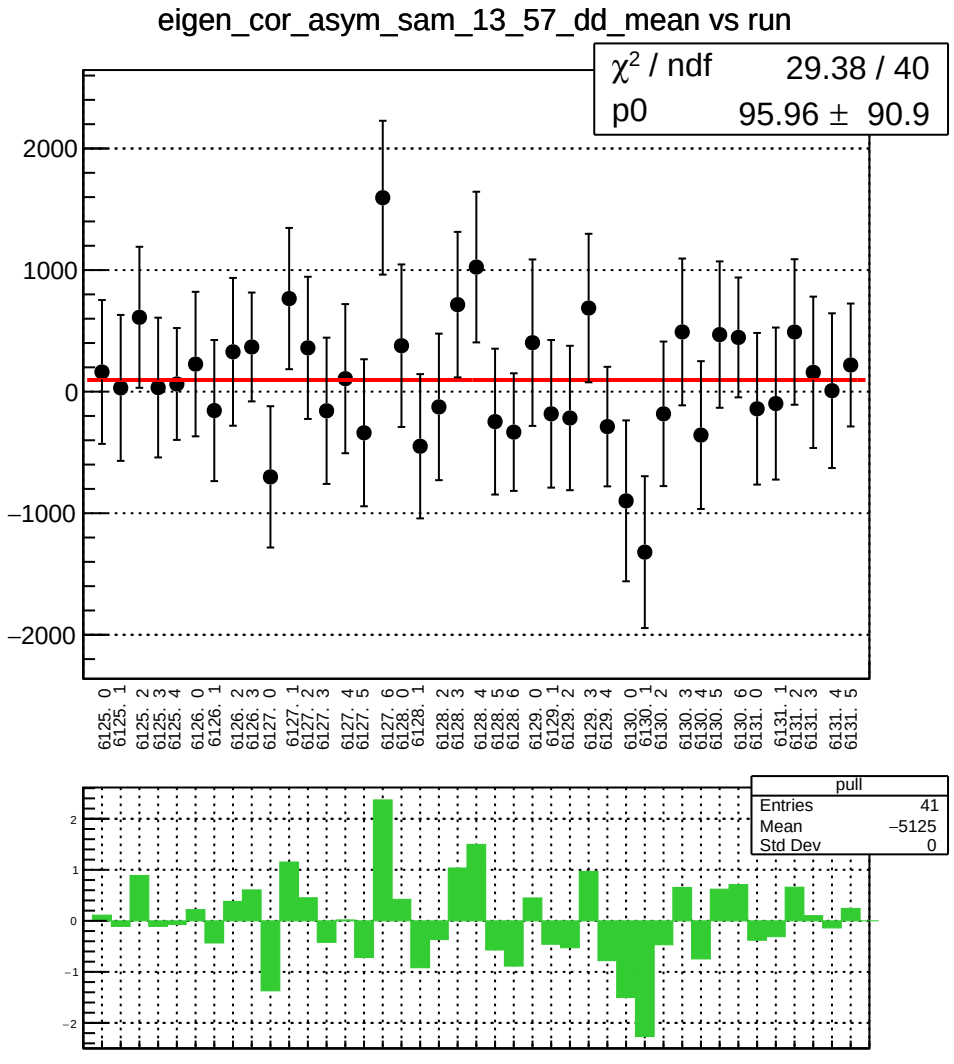

pull1D
Entries 41
Mean 0.0002276
Std Dev 0.8465
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

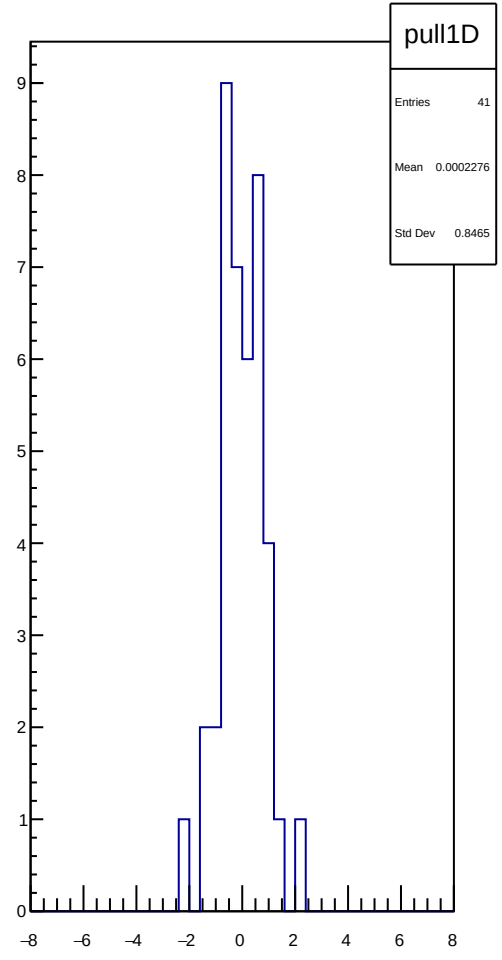

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1112 / 40
p0 57.6 ± 0.06428
66
64
62
60
58
56
54
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

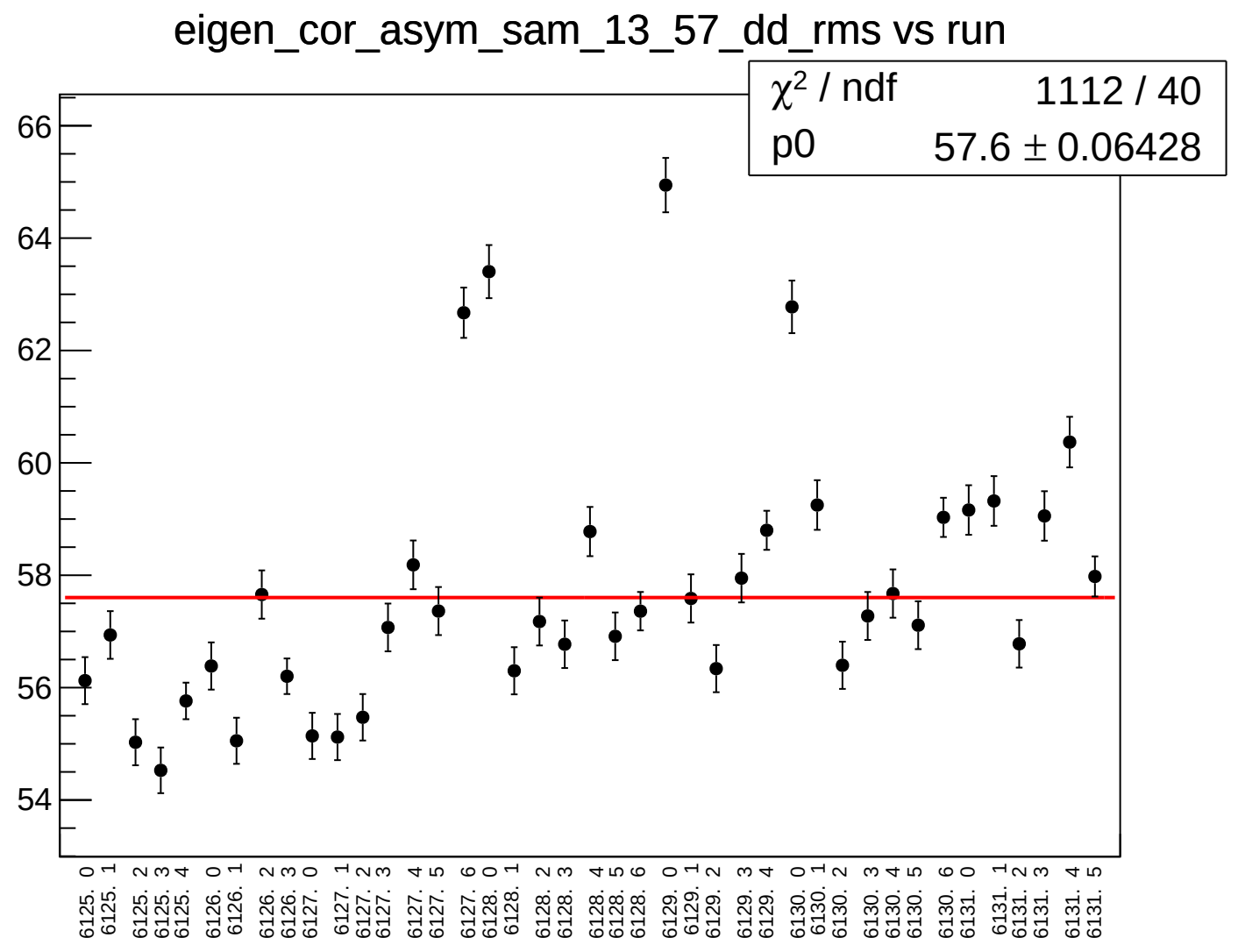

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 48.31 / 40
p0 −633.9 ± 825.2
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −154.4
Std Dev 0
1
0
−1
−2
−3
−4

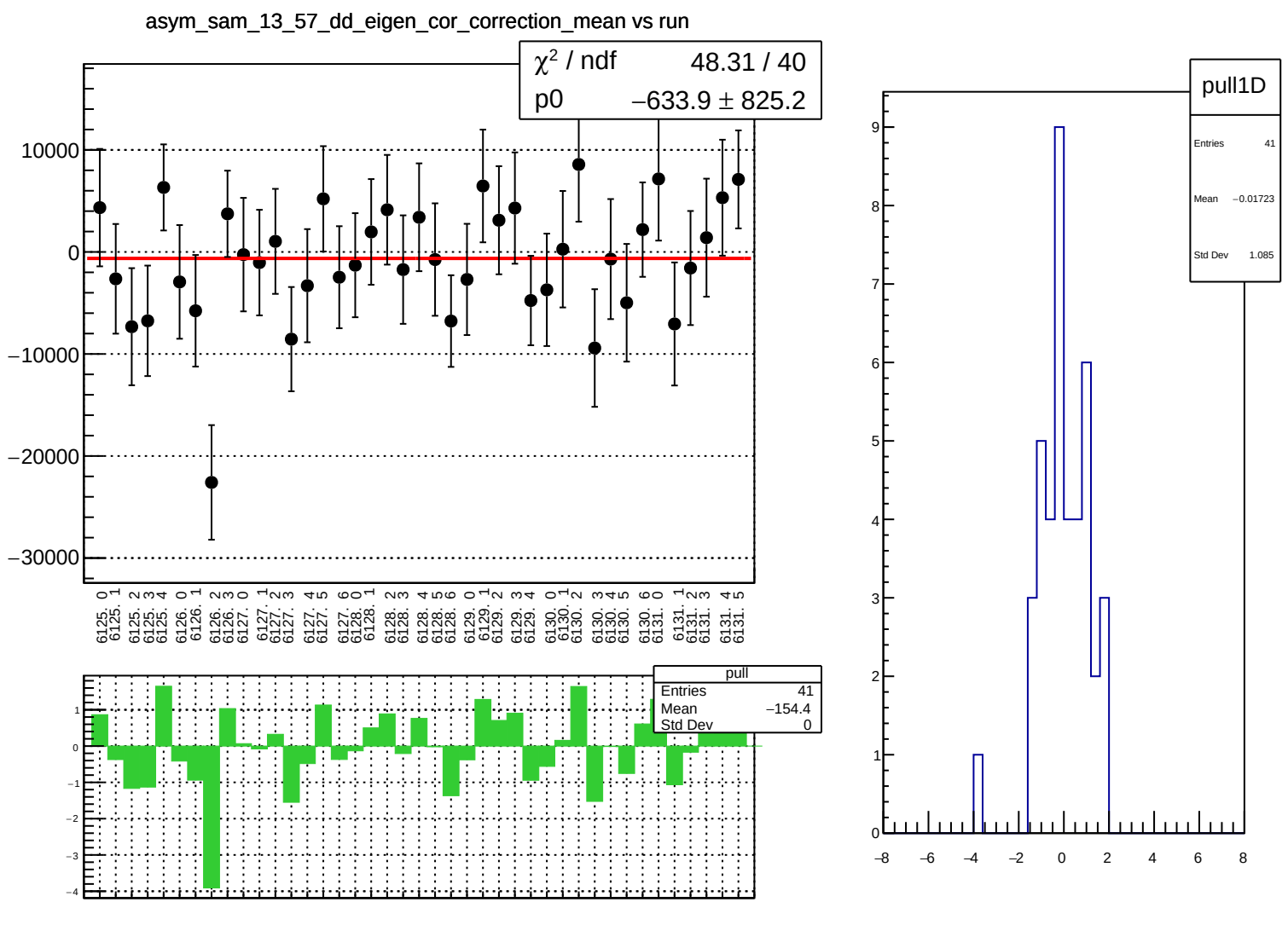

pull1D
Entries 41
Mean −0.01723
Std Dev 1.085
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 1496 / 40
p0 522.8 ± 0.5835
580
560
540
520
500
480
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 29.38 / 40
p0 95.96 ± 90.9
2000
1000
0
−1000
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −5125
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean 0.0002276
Std Dev 0.8465
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1112 / 40
p0 57.6 ± 0.06428
66
64
62
60
58
56
54
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 48.31 / 40
p0 −633.9 ± 825.2
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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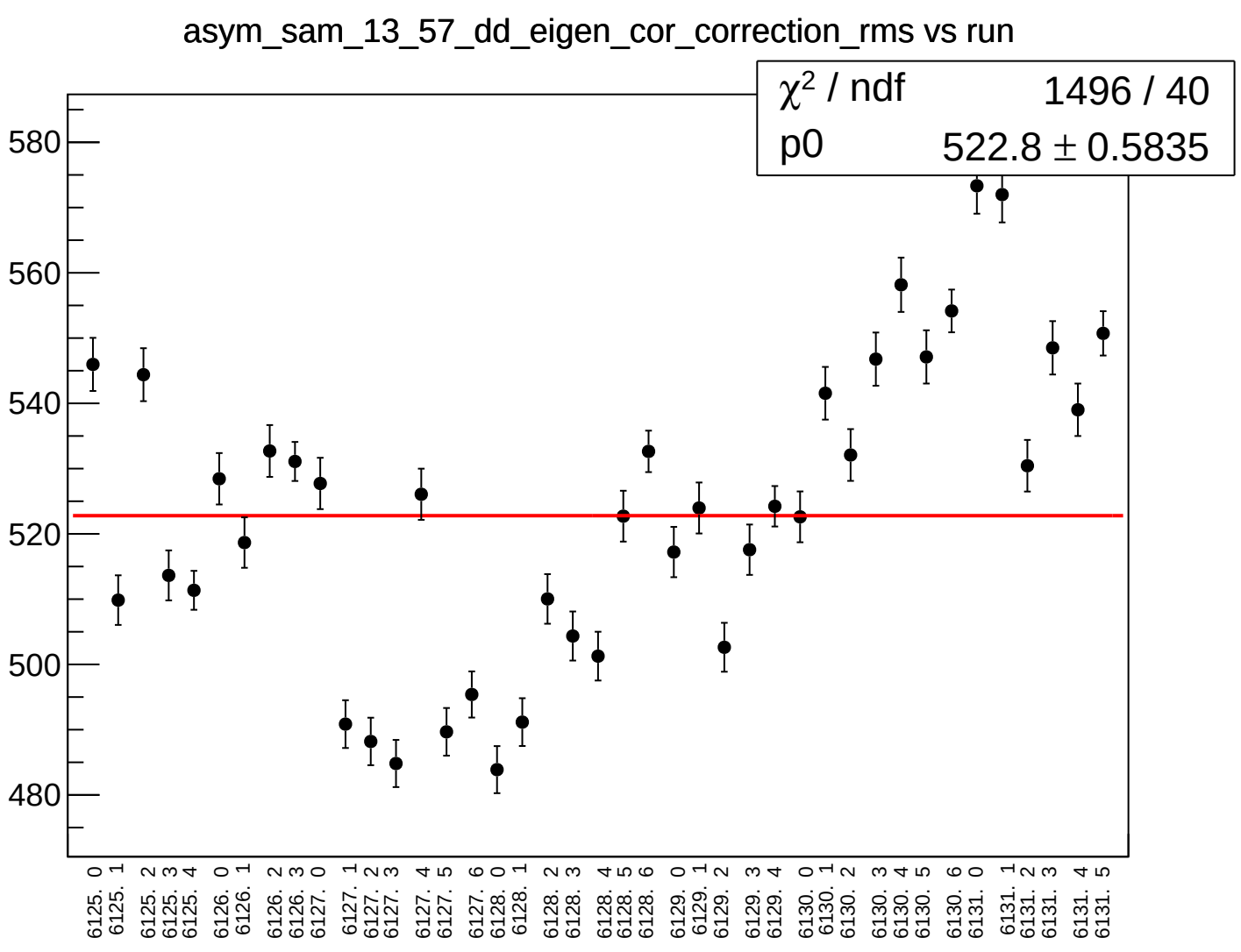
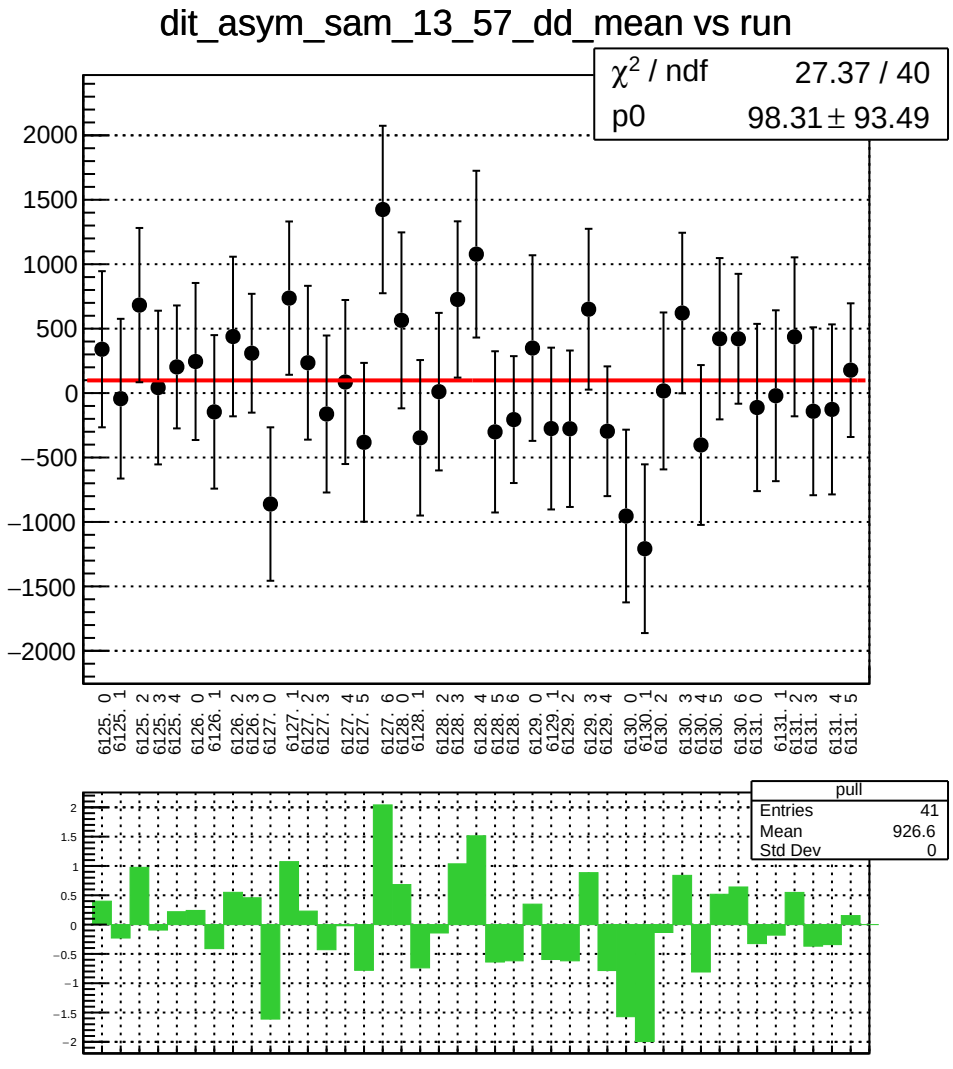
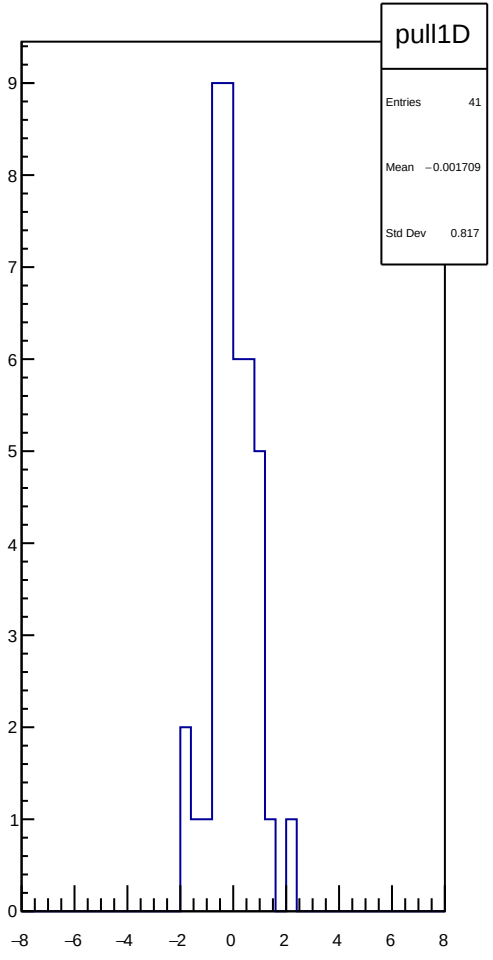
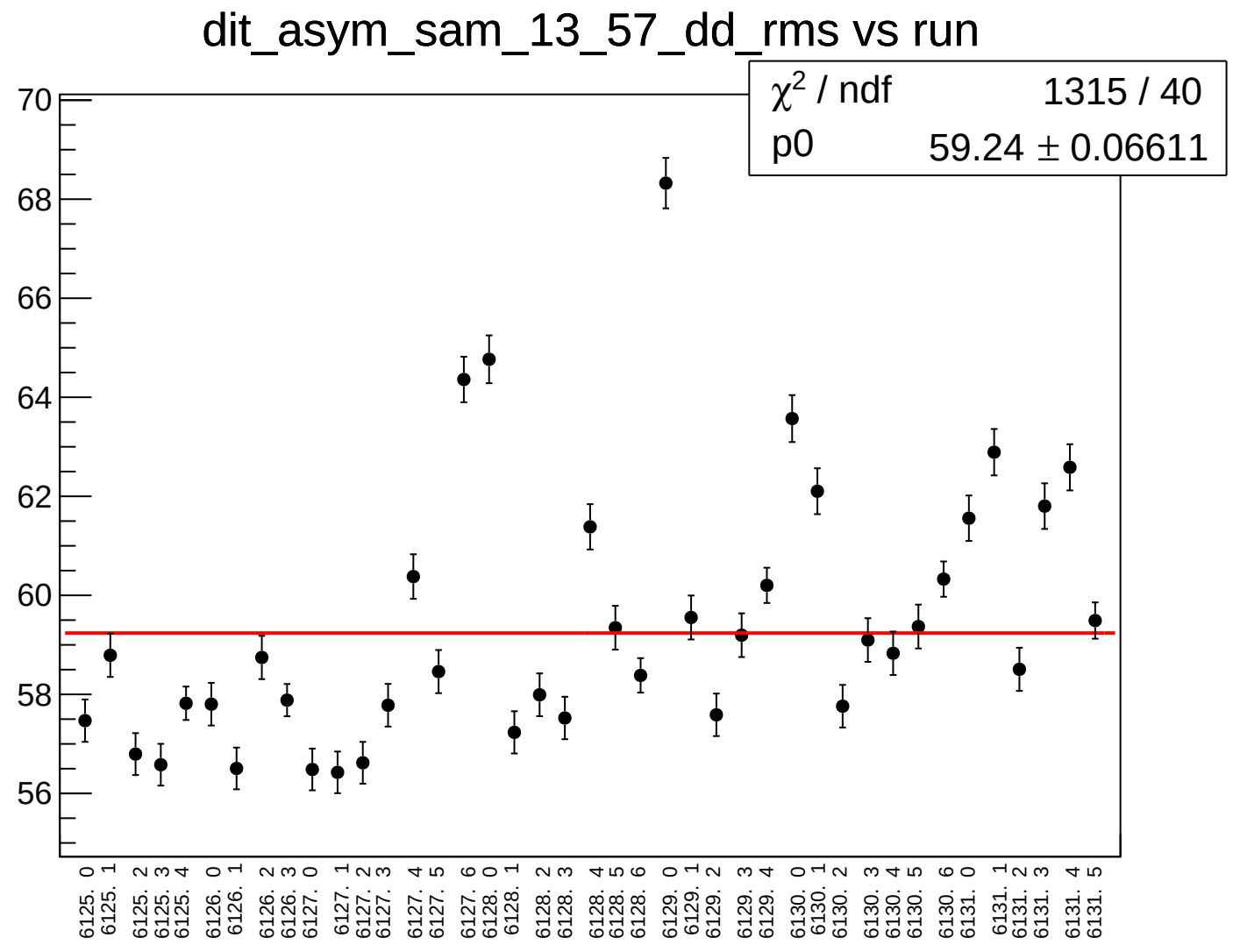
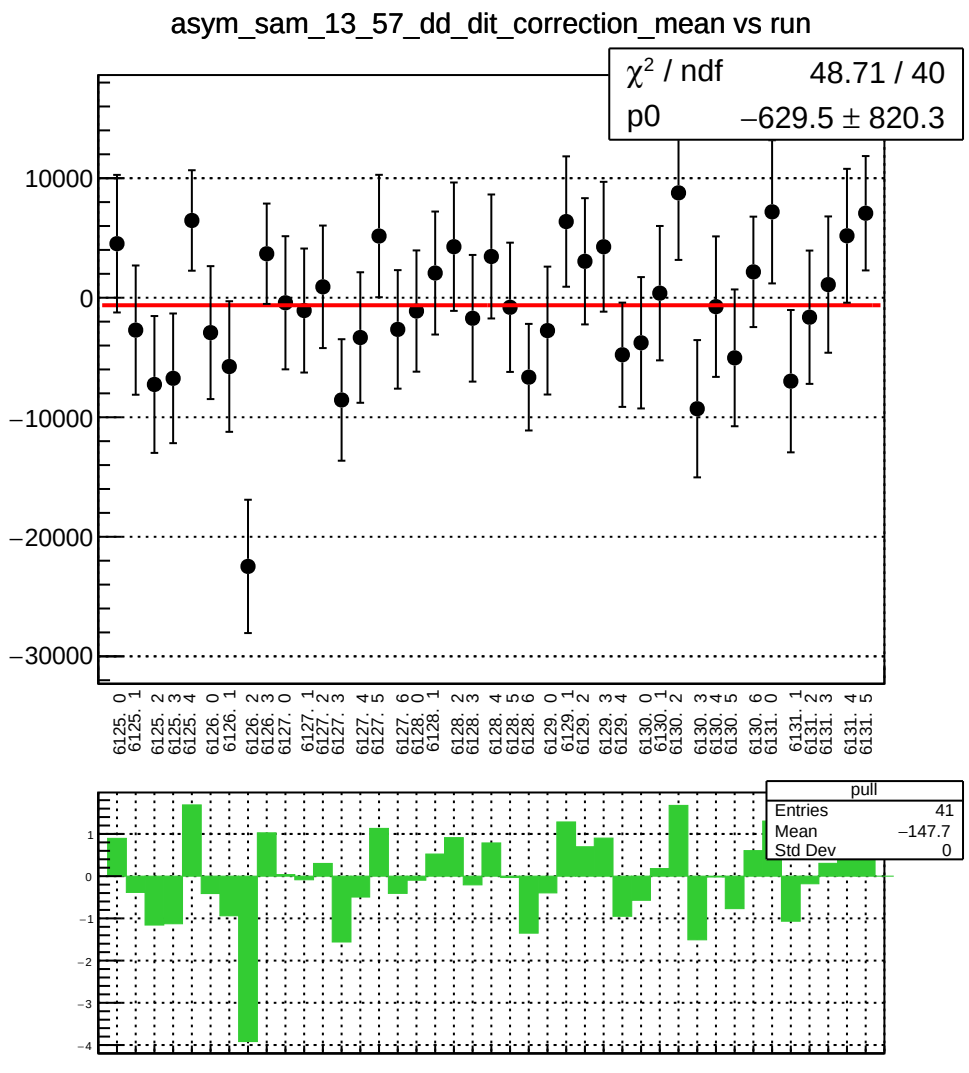
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −154.4
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 41
Mean −0.01723
Std Dev 1.085
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

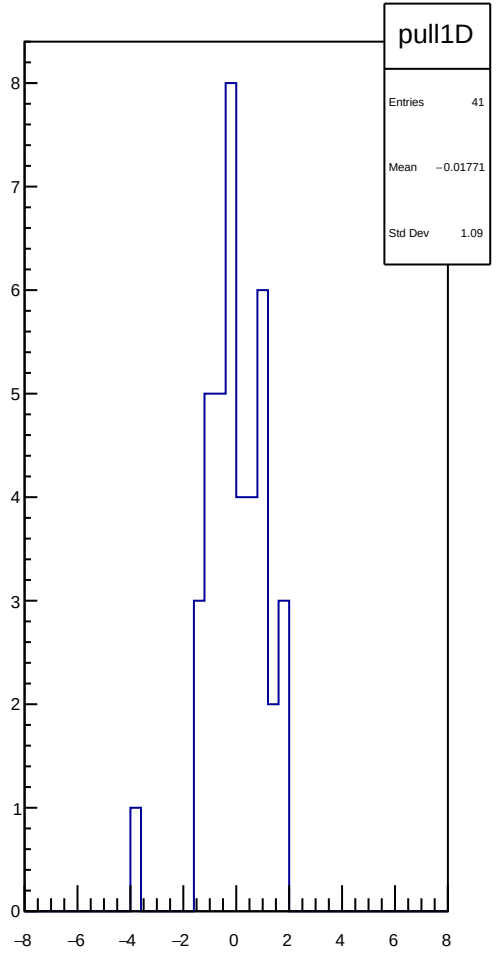

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 1496 / 40
p0 522.8 ± 0.5835
580
560
540
520
500
480
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

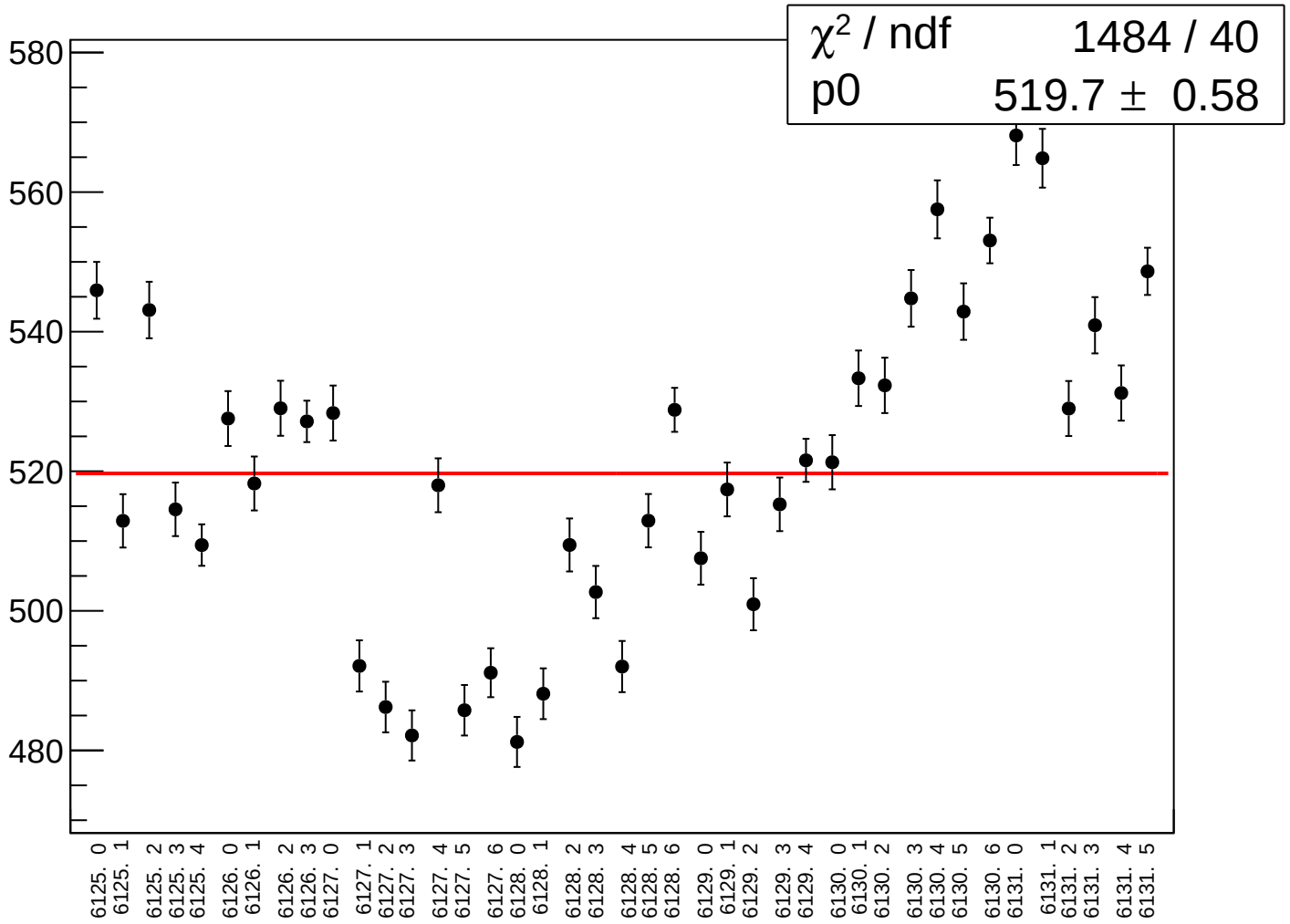

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 27.37 / 40
p0 98.31 ± 93.49
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 926.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

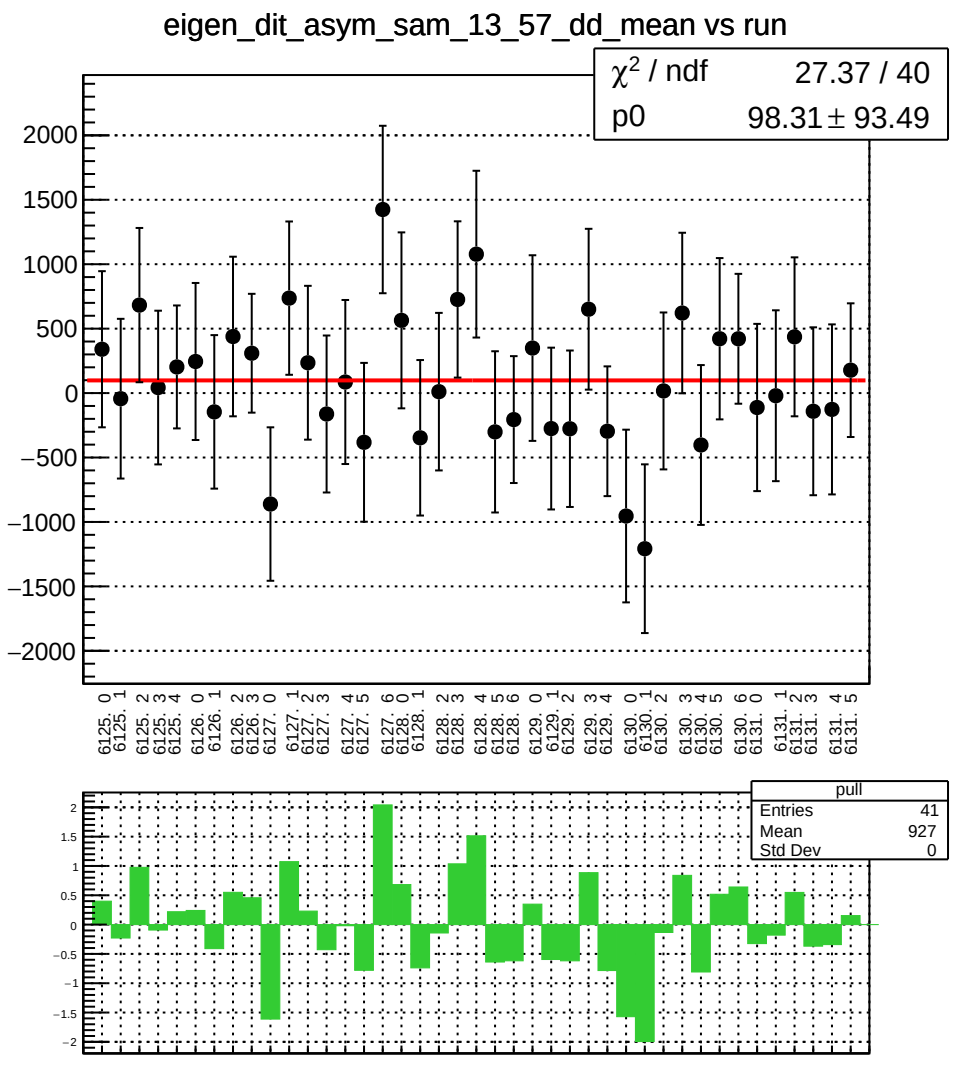

pull1D
Entries 41
Mean −0.001709
Std Dev 0.817
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

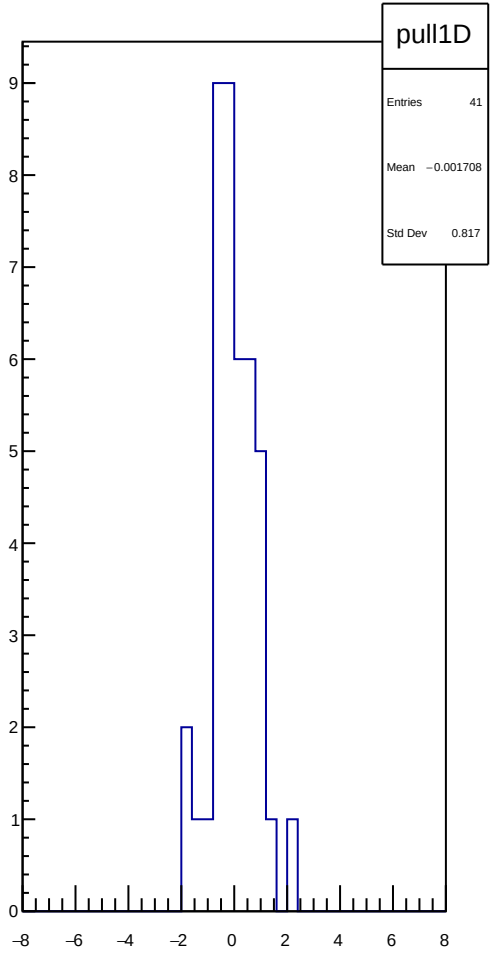

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1315 / 40
p0 59.24 ± 0.06611
70
68
66
64
62
60
58
56
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

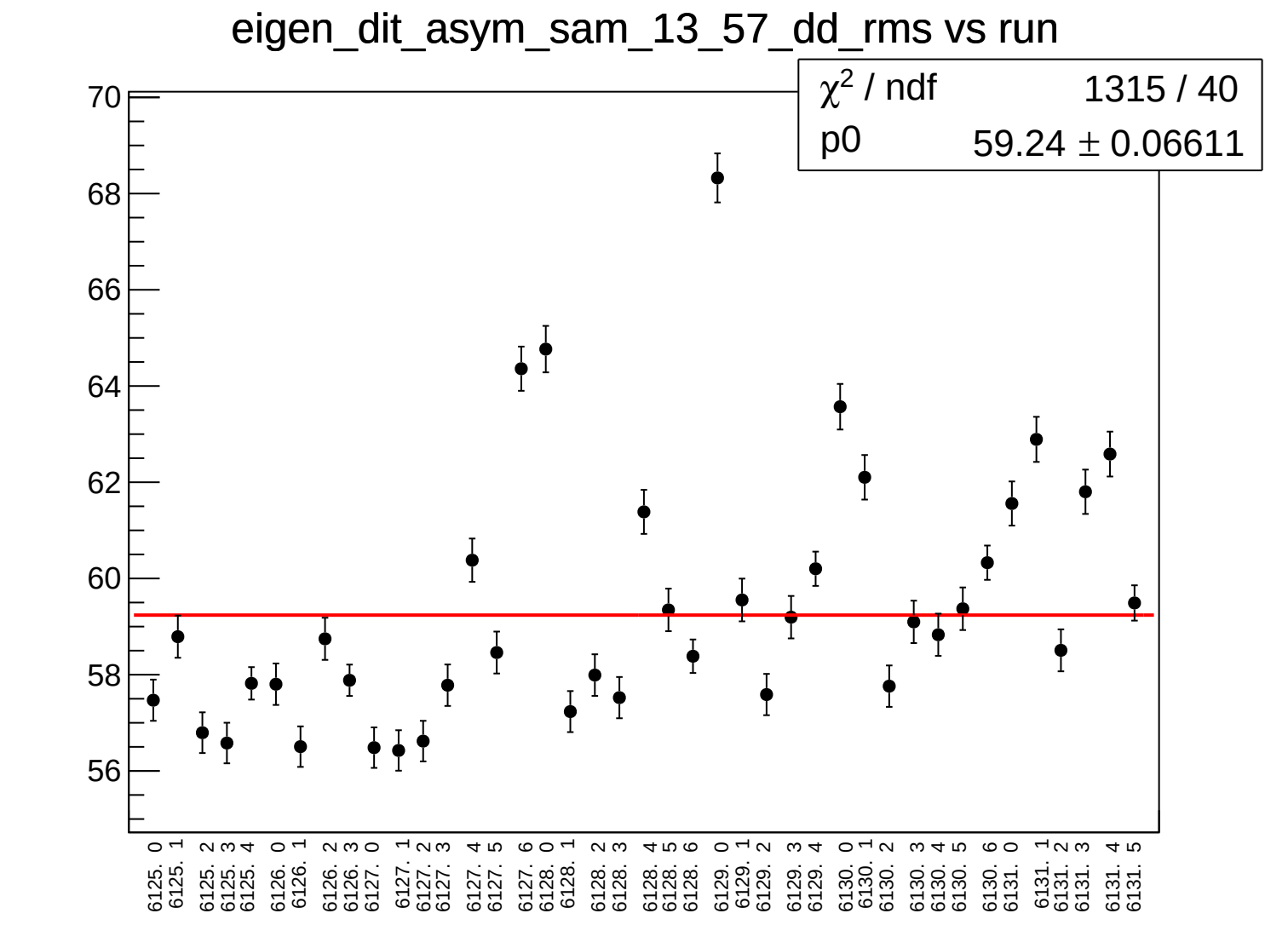

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 48.71 / 40
p0 −629.5 ± 820.3
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −147.7
Std Dev 0
1
0
−1
−2
−3
−4

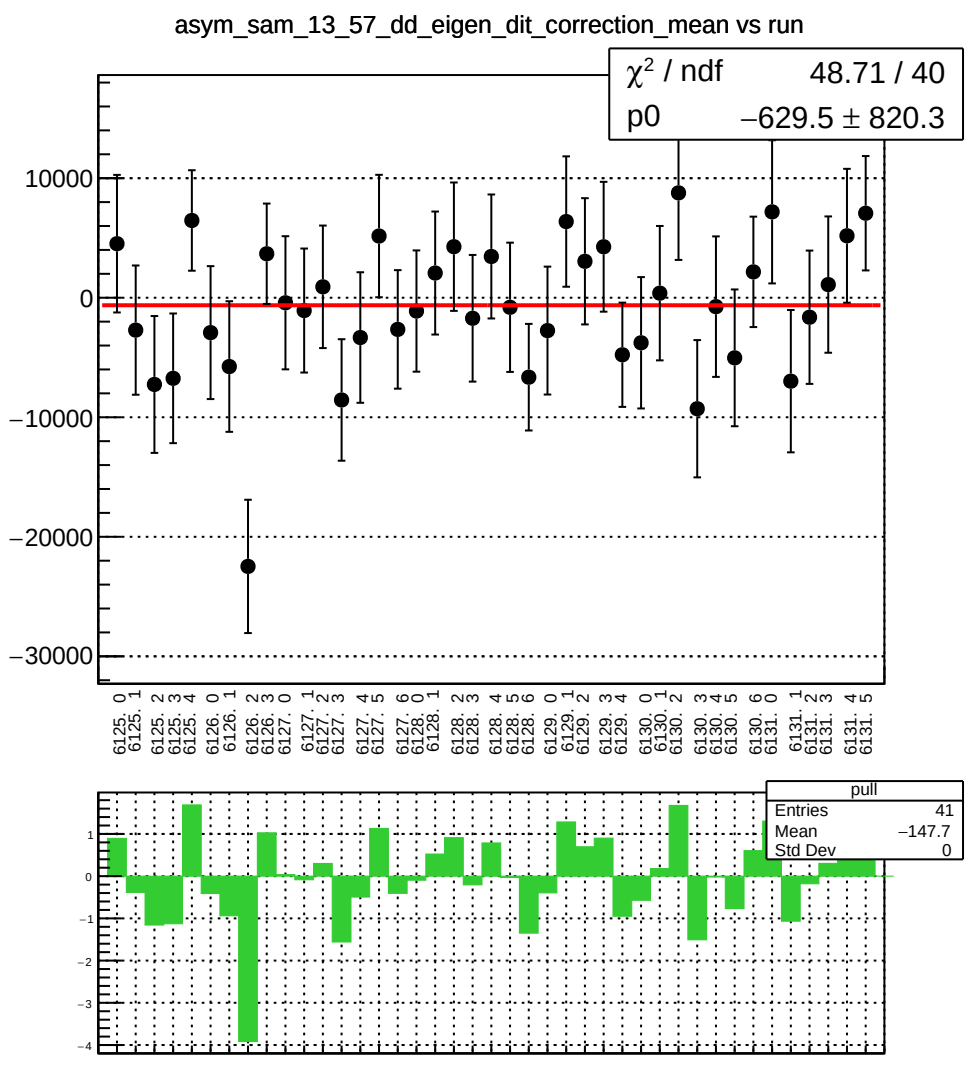

pull1D
Entries 41
Mean −0.01771
Std Dev 1.09
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

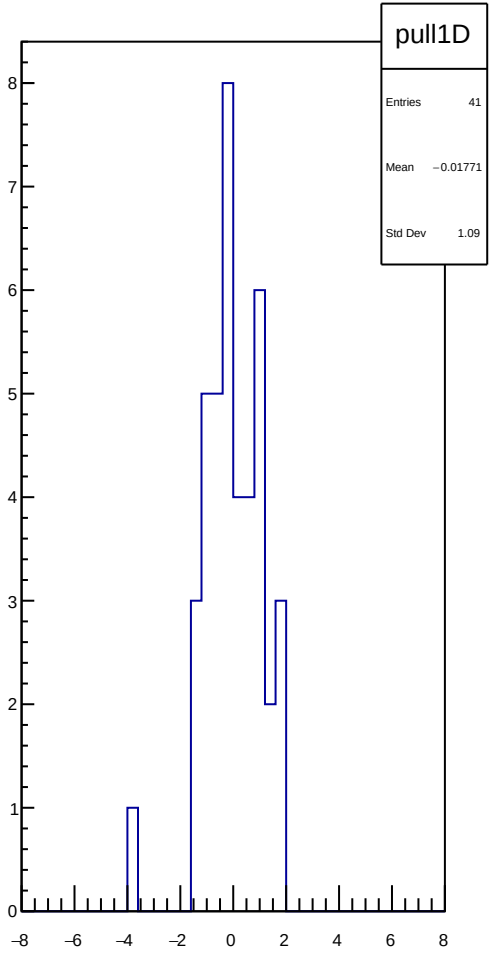

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 1484 / 40
p0 519.7 ± 0.58
580
560
540
520
500
480
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

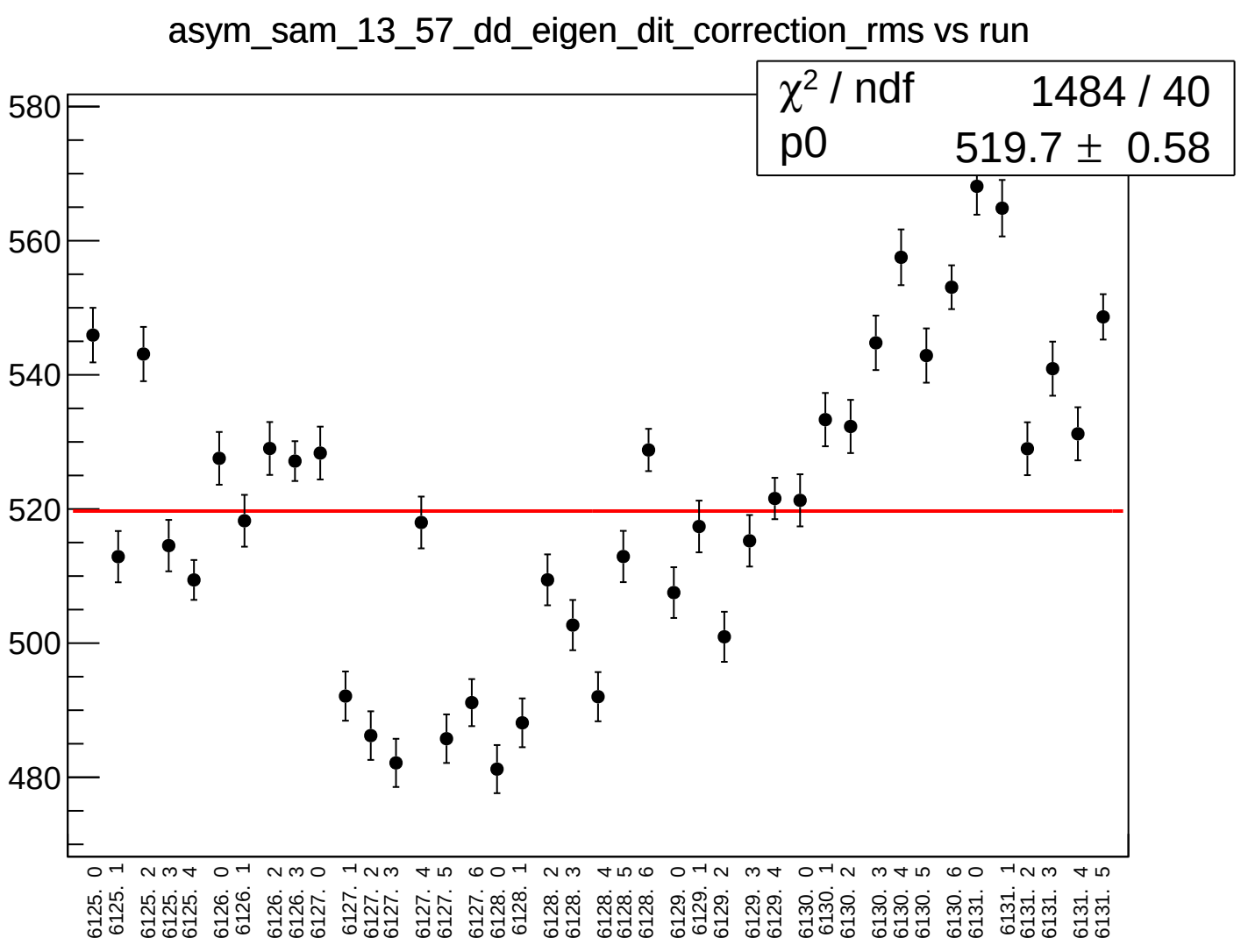

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 27.37 / 40
p0 98.31 ± 93.49
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 927
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

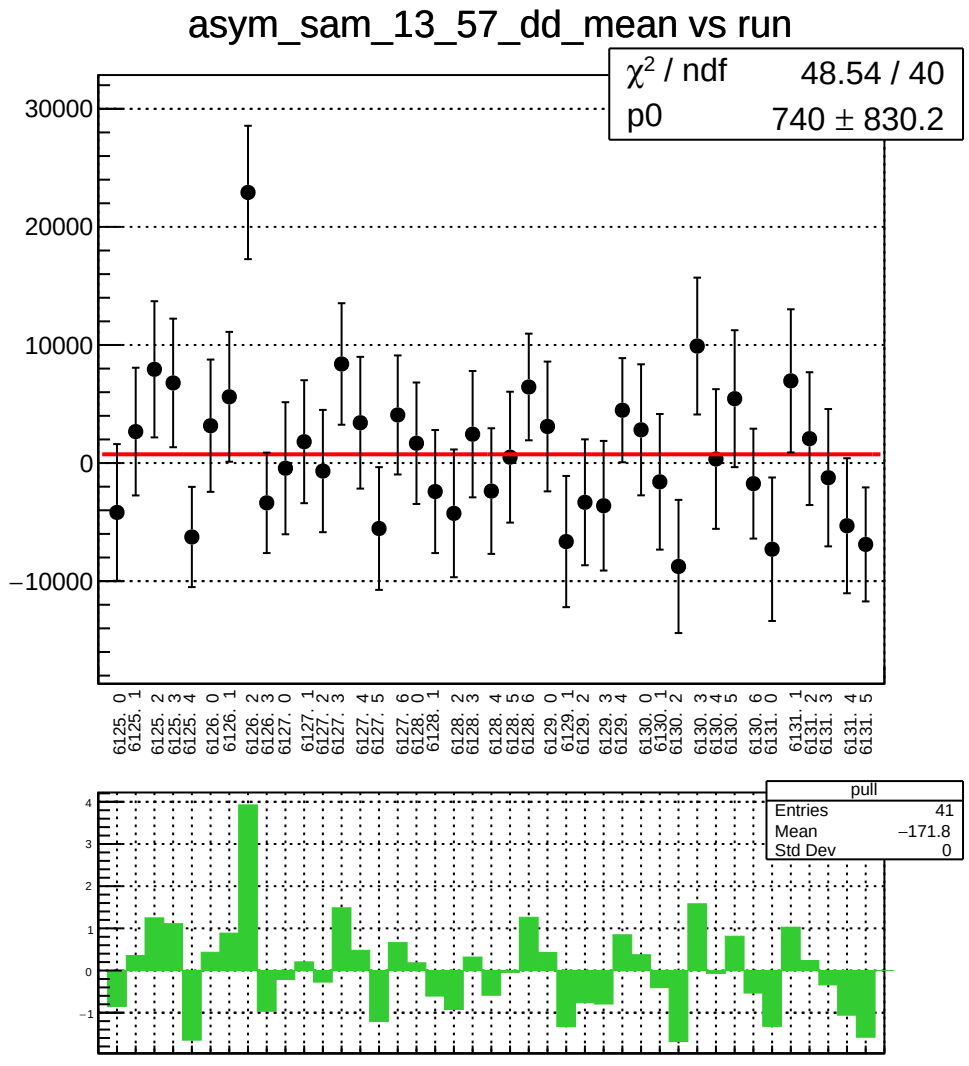

pull1D
Entries 41
Mean −0.001708
Std Dev 0.817
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

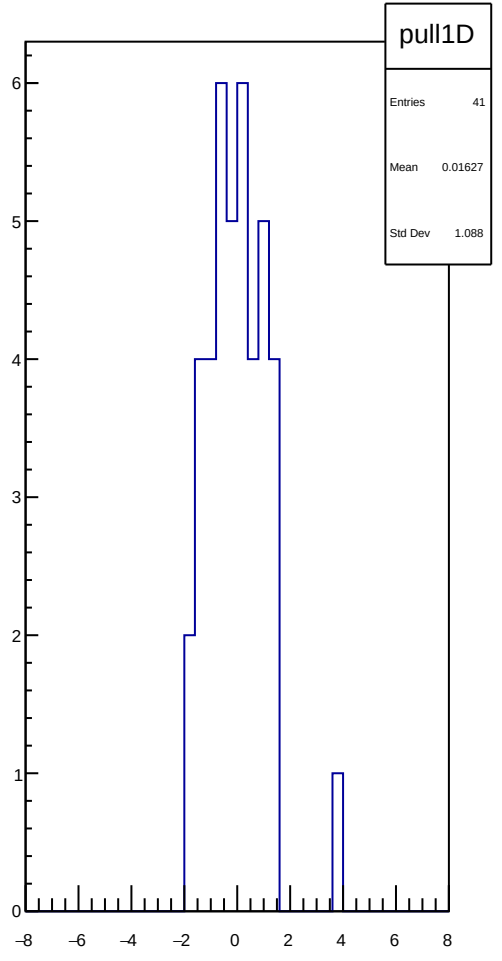

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1315 / 40
p0 59.24 ± 0.06611
70
68
66
64
62
60
58
56
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

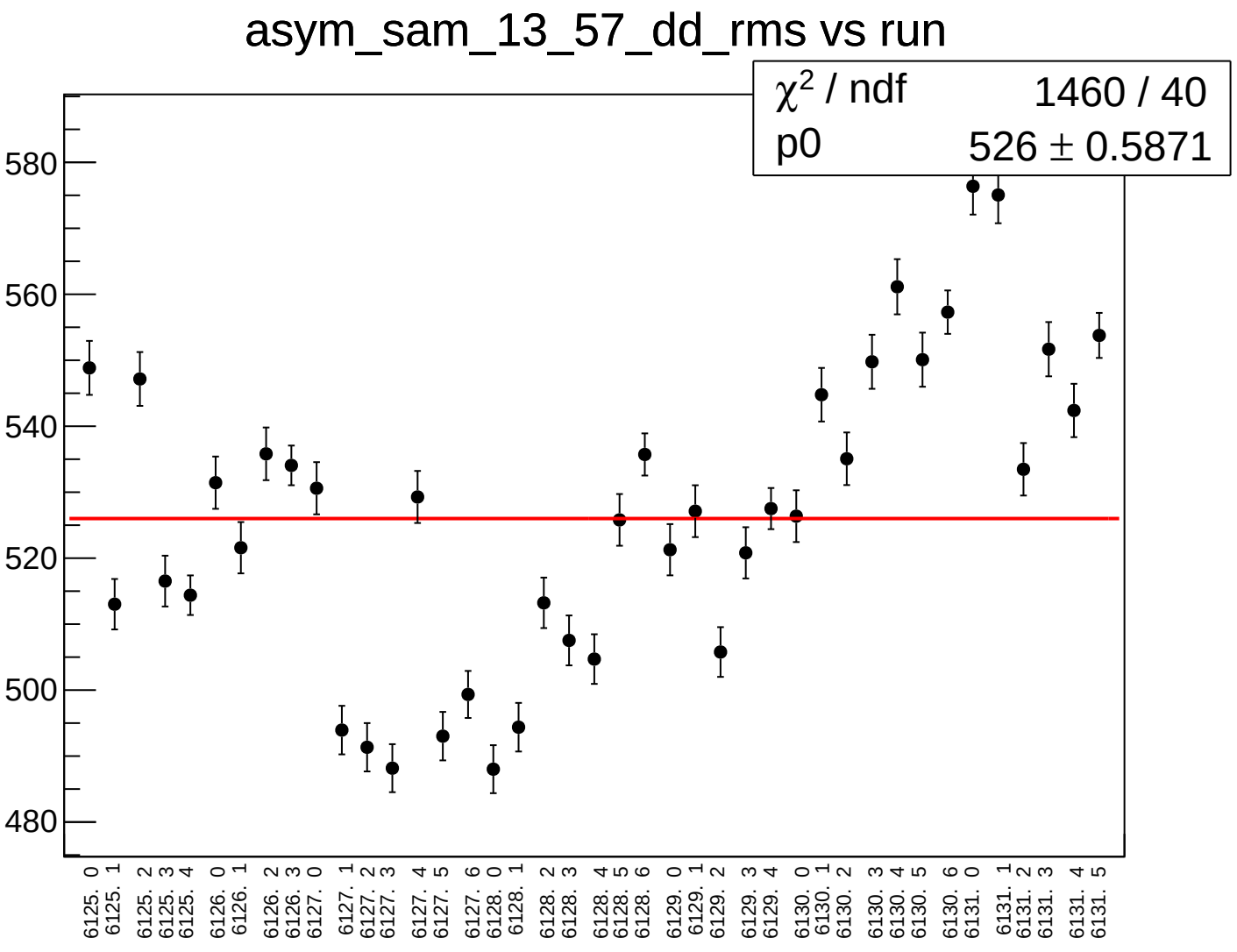

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 48.71 / 40
p0 −629.5 ± 820.3
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −147.7
Std Dev 0
1
0
−1
−2
−3
−4

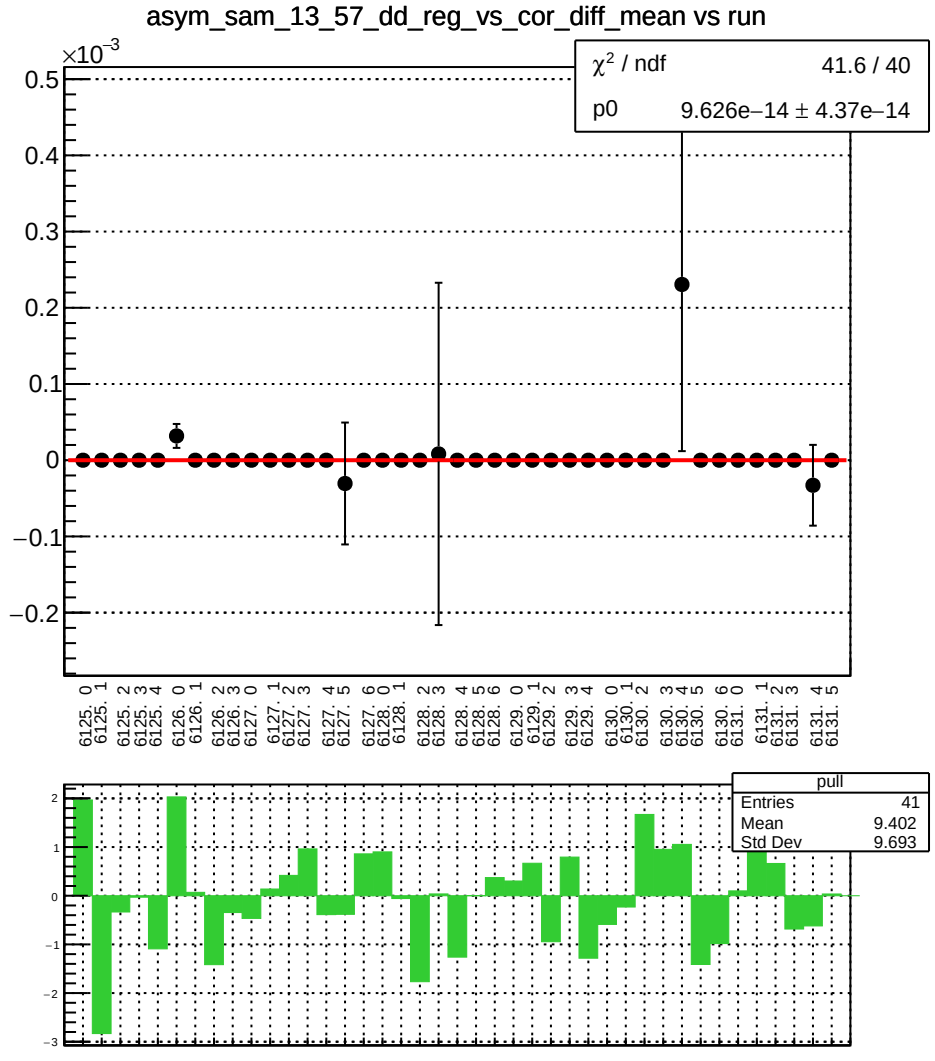

pull1D
Entries 41
Mean −0.01771
Std Dev 1.09
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

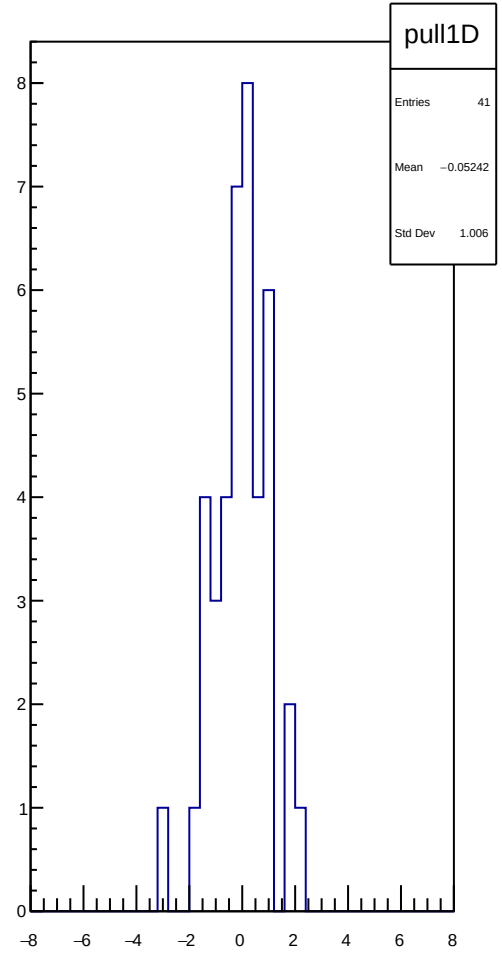

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 1484 / 40
p0 519.7 ± 0.58
580
560
540
520
500
480
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

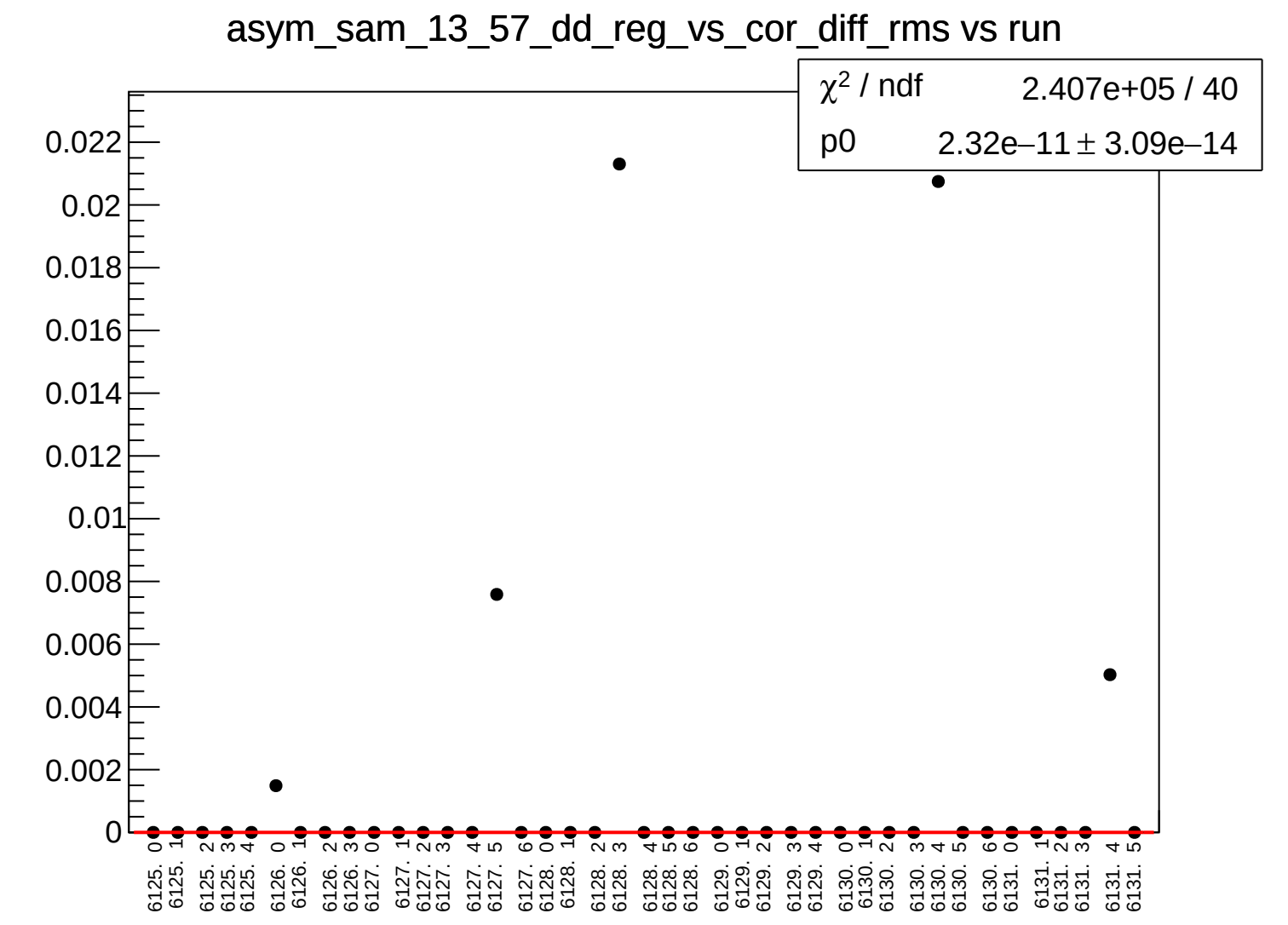

asym_sam_13_57_dd_mean vs run
χ² / ndf 48.54 / 40
p0 740 ± 830.2
30000
20000
10000
0
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −171.8
Std Dev 0
4
3
2
1
0
−1

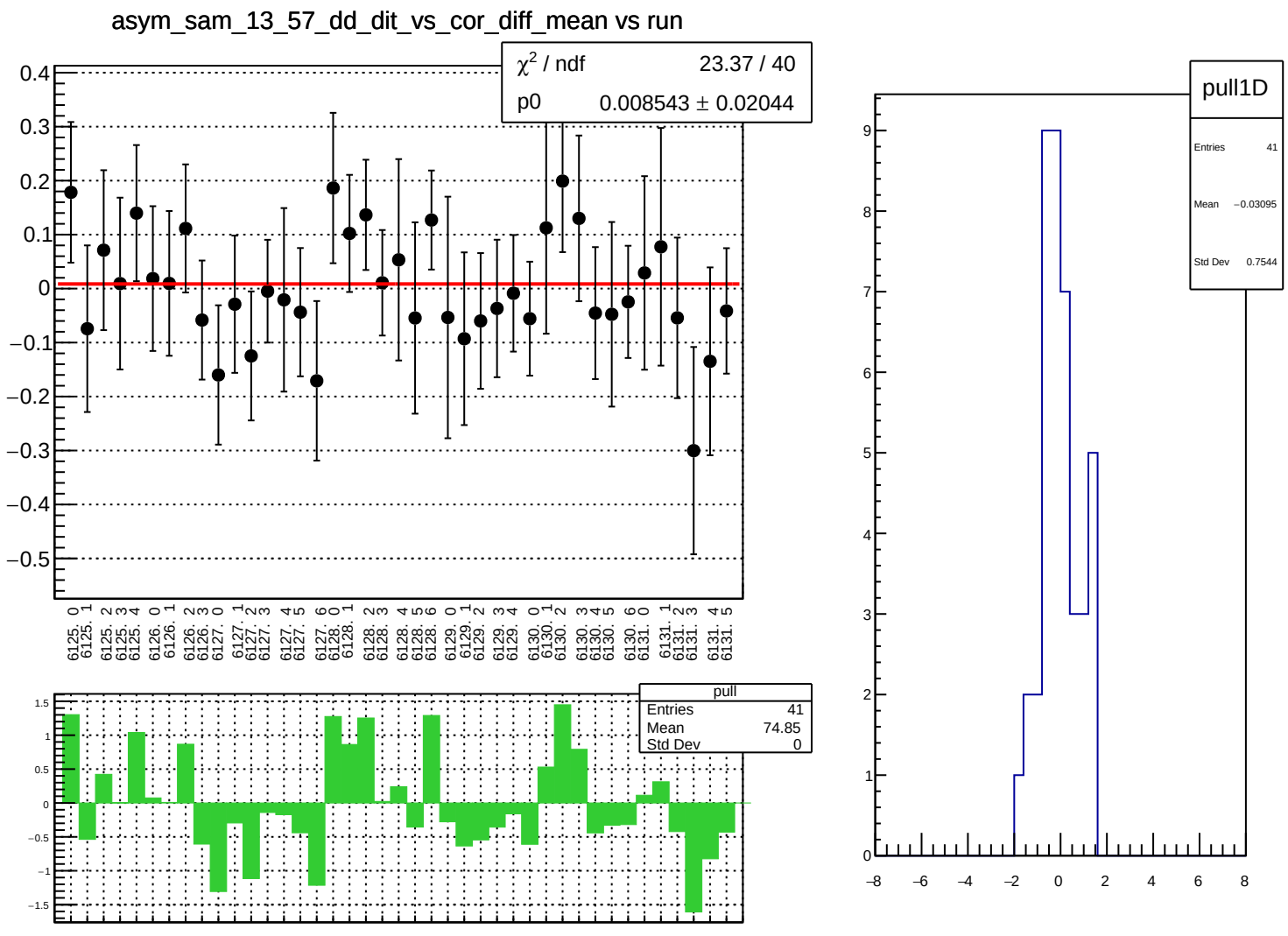

pull1D
Entries 41
Mean 0.01627
Std Dev 1.088
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

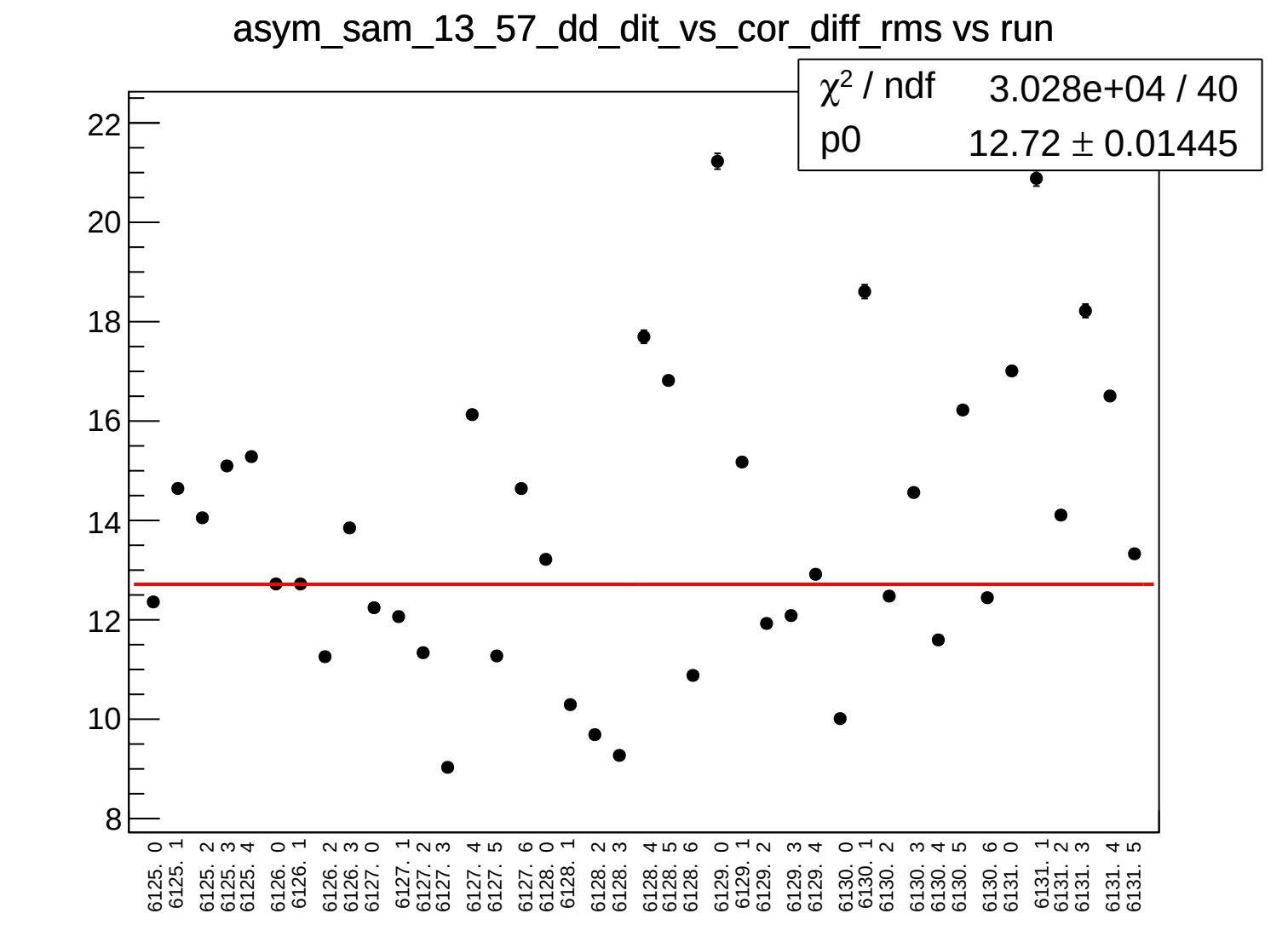

asym_sam_13_57_dd_rms vs run
χ² / ndf 1460 / 40
p0 526 ± 0.5871
580
560
540
520
500
480
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

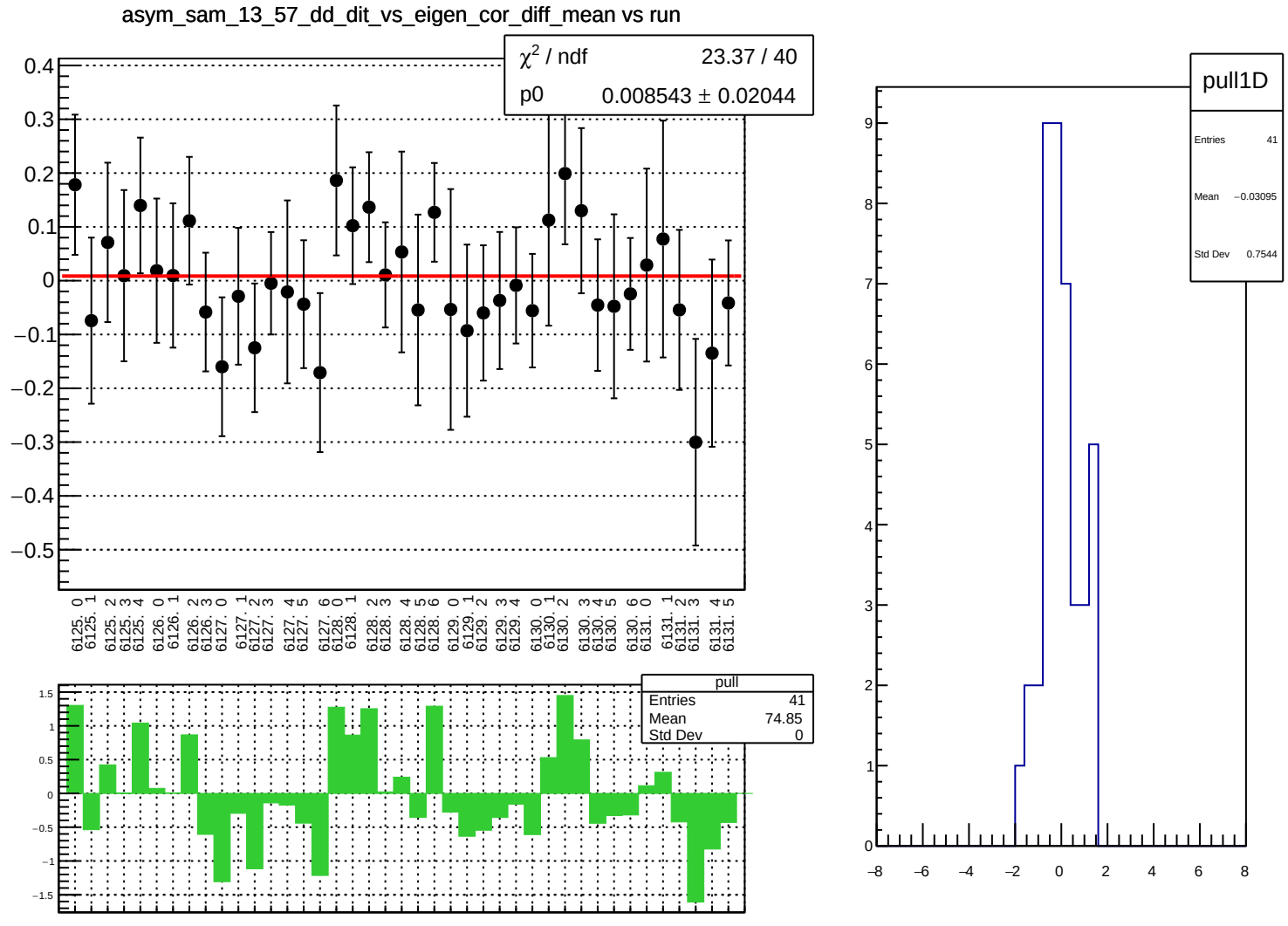

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 41.6 / 40
p0 9.626e−14 ± 4.37e−14
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 9.402
Std Dev 9.693
2
1
0
−1
−2
−3

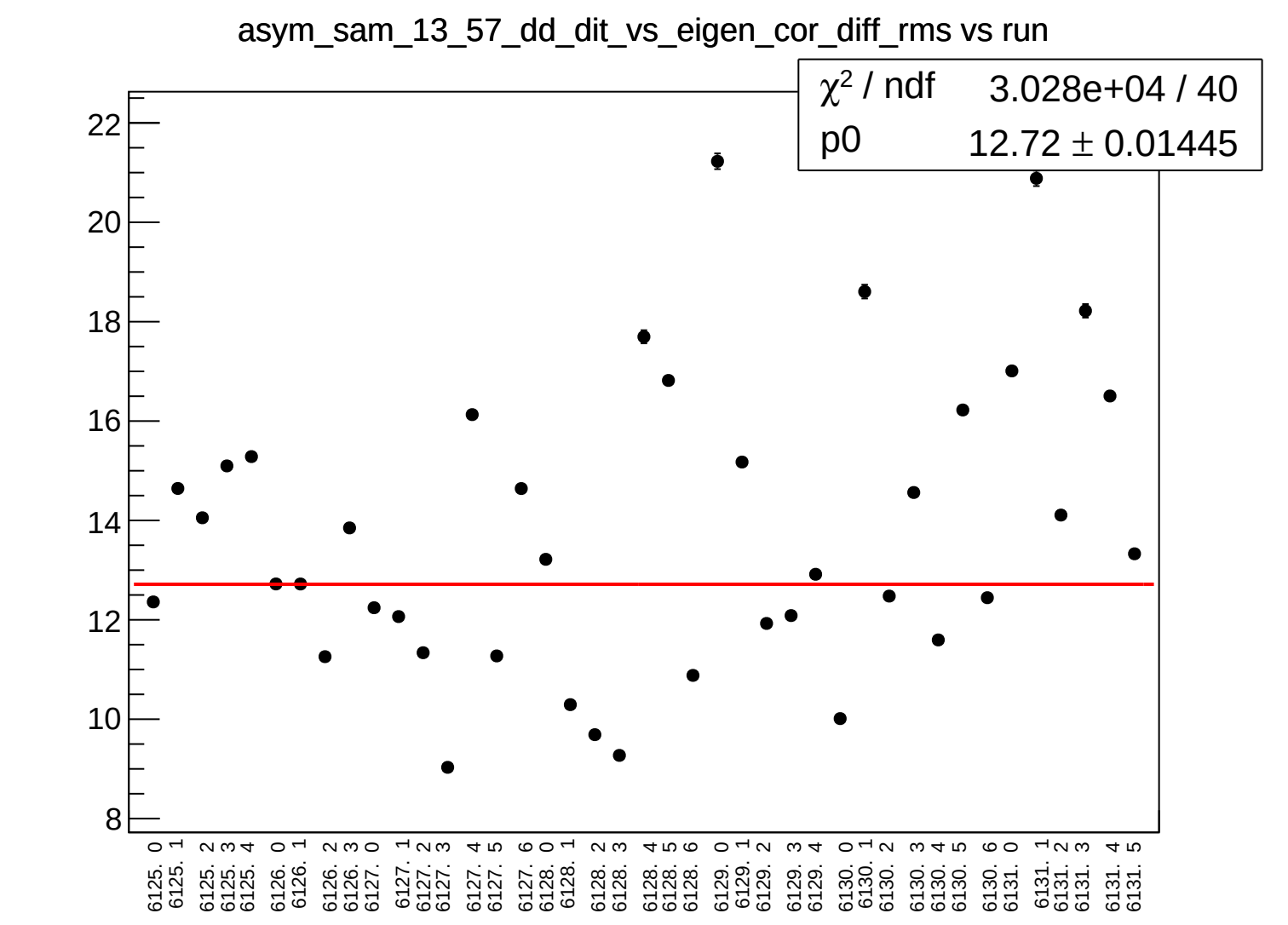

pull1D
Entries 41
Mean −0.05242
Std Dev 1.006
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

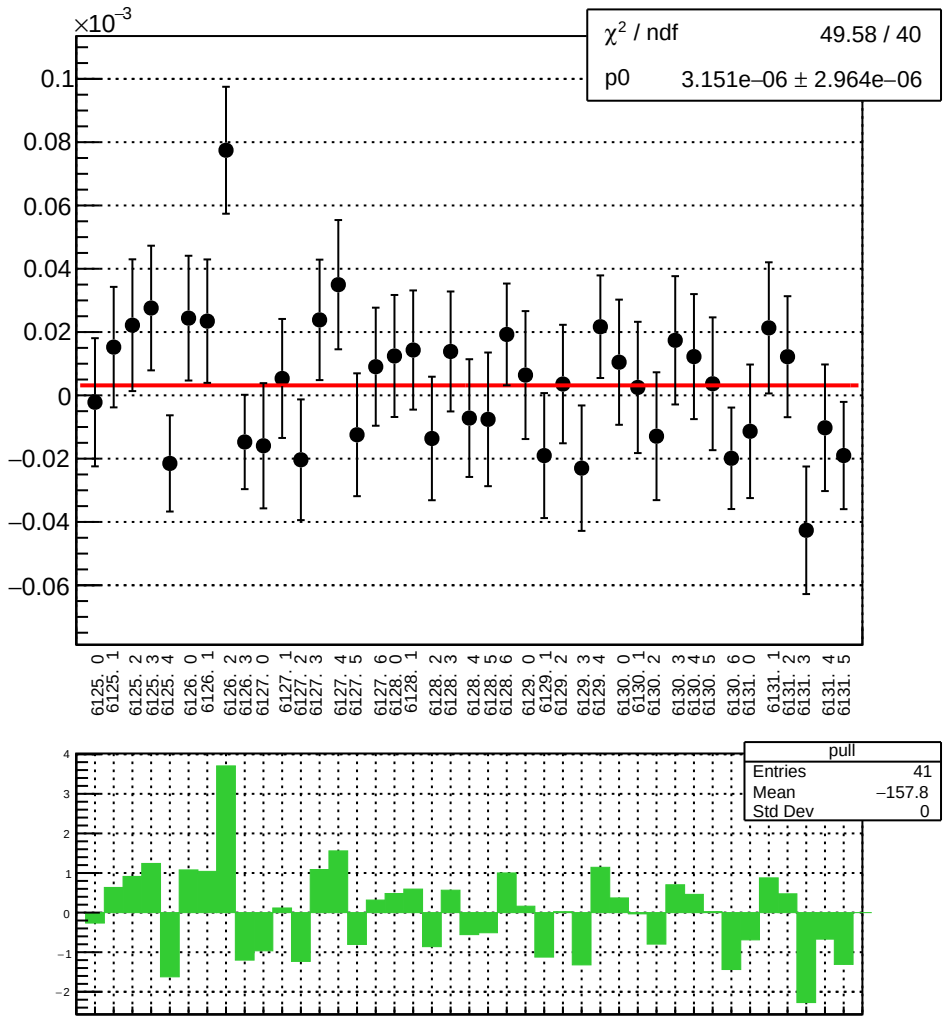

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.407e+05 / 40
p0 2.32e−11 ± 3.09e−14
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

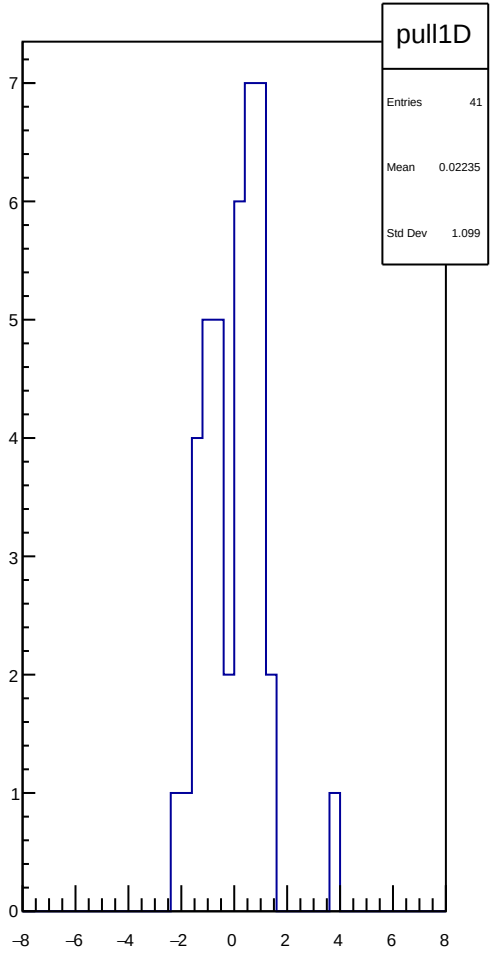

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 23.37 / 40
p0 0.008543 ± 0.02044
pull
Entries 41
Mean 74.85
Std Dev 0
pull1D
Entries 41
Mean −0.03095
Std Dev 0.7544

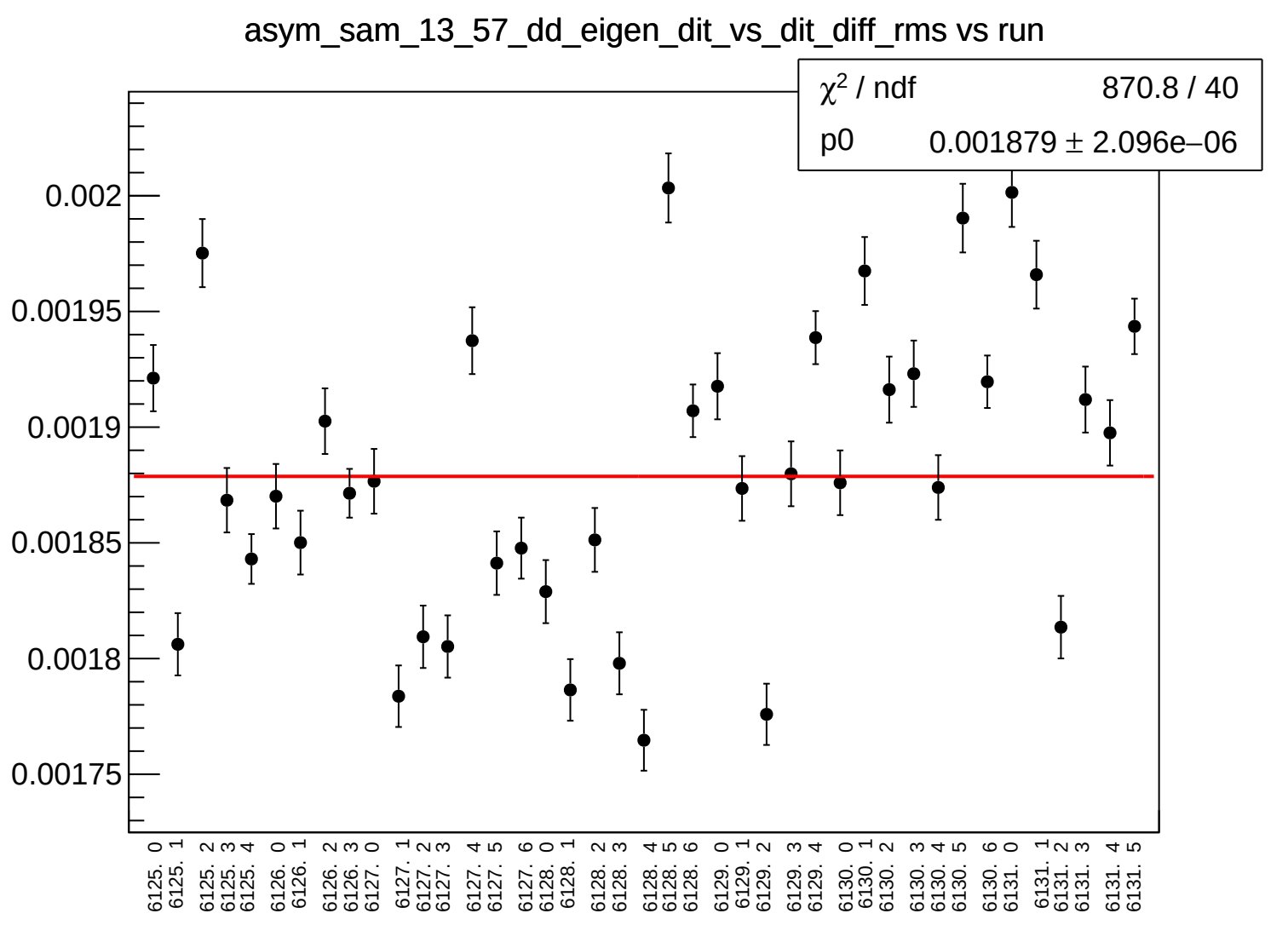

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.028e+04 / 40
p0 12.72 ± 0.01445
22
20
18
16
14
12
10
8
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

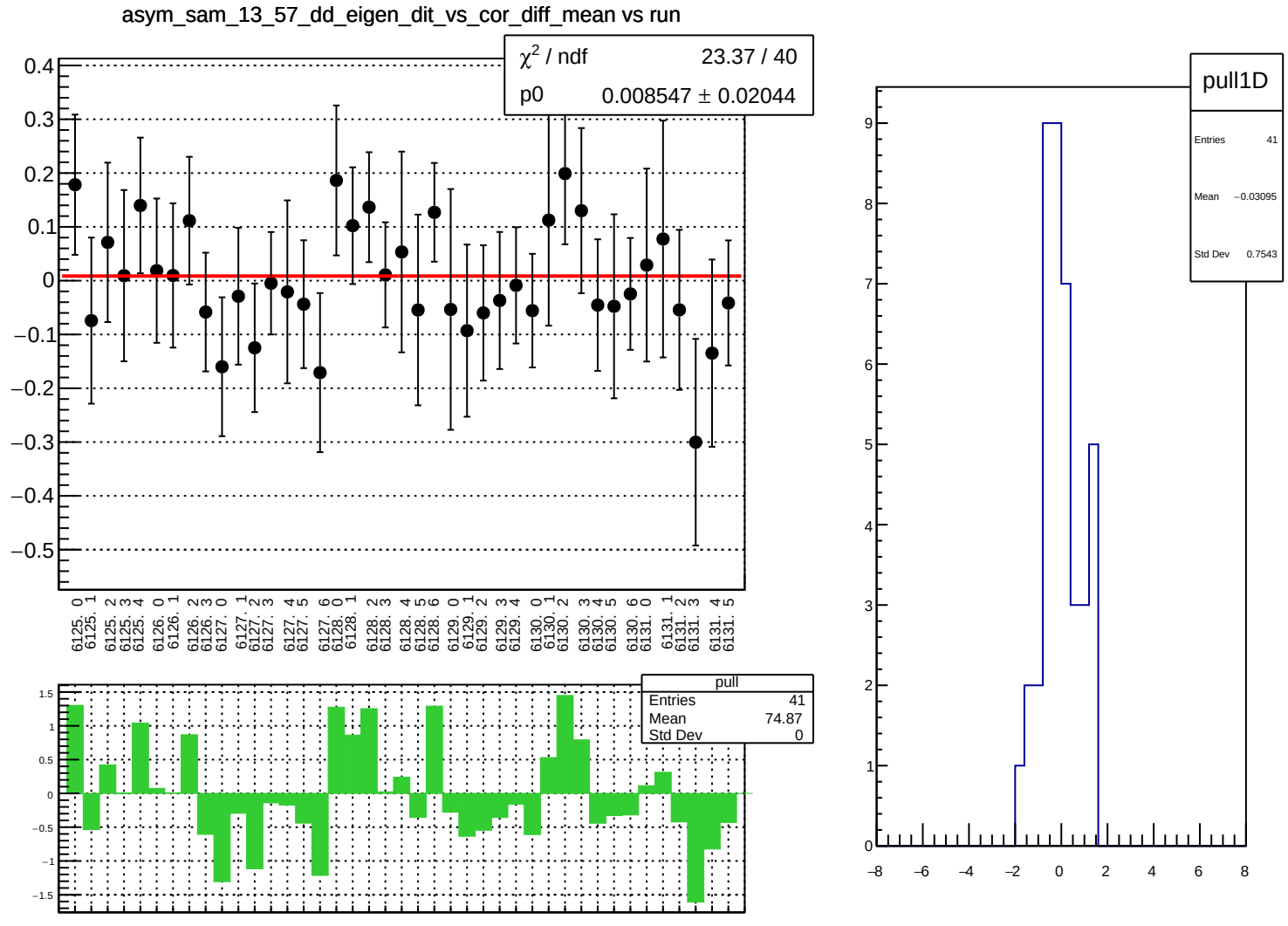

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.37 / 40
p0 0.008543 ± 0.02044
pull
Entries 41
Mean 74.85
Std Dev 0
pull1D
Entries 41
Mean −0.03095
Std Dev 0.7544

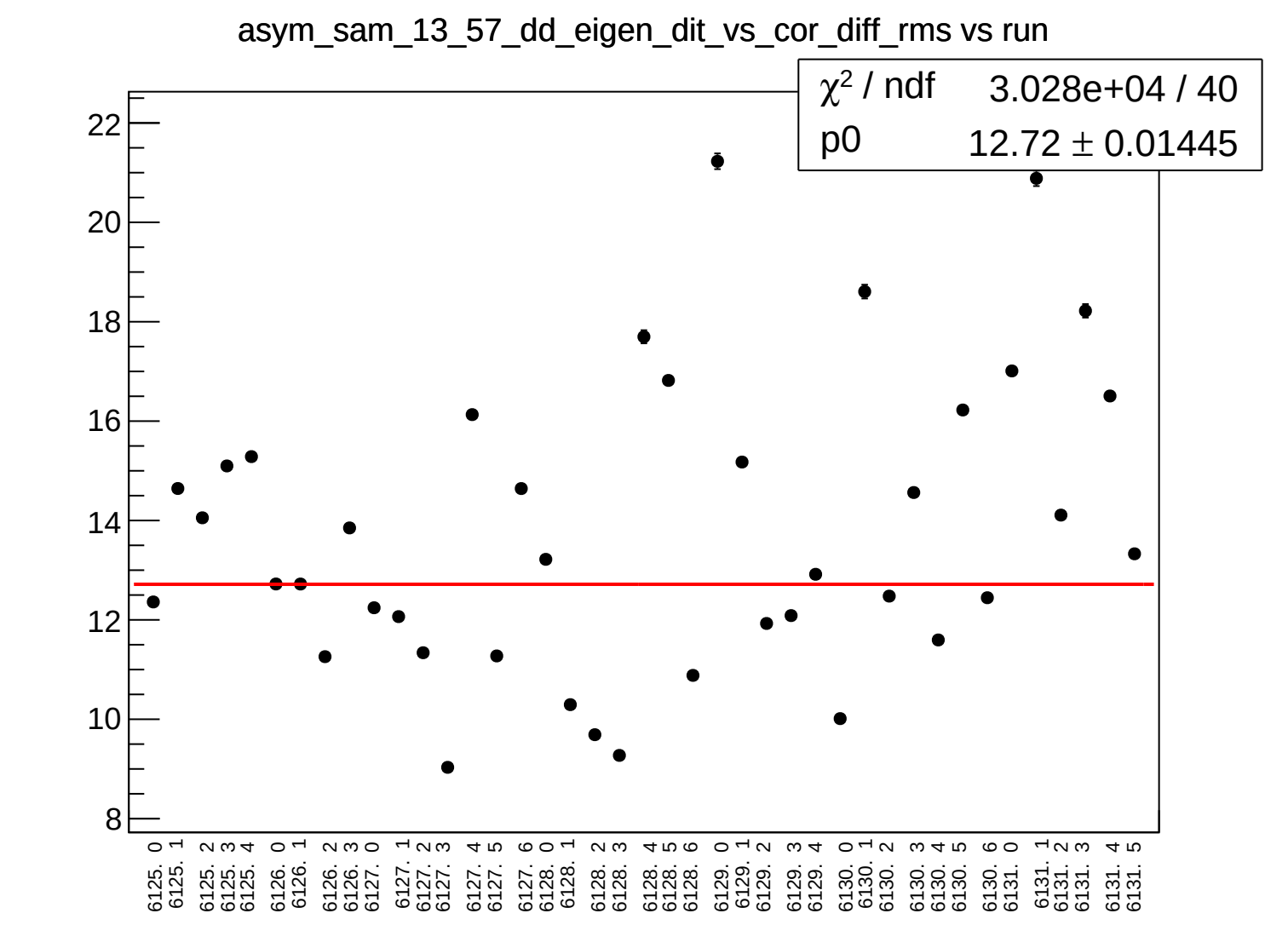

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.028e+04 / 40
p0 12.72 ± 0.01445
22
20
18
16
14
12
10
8
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

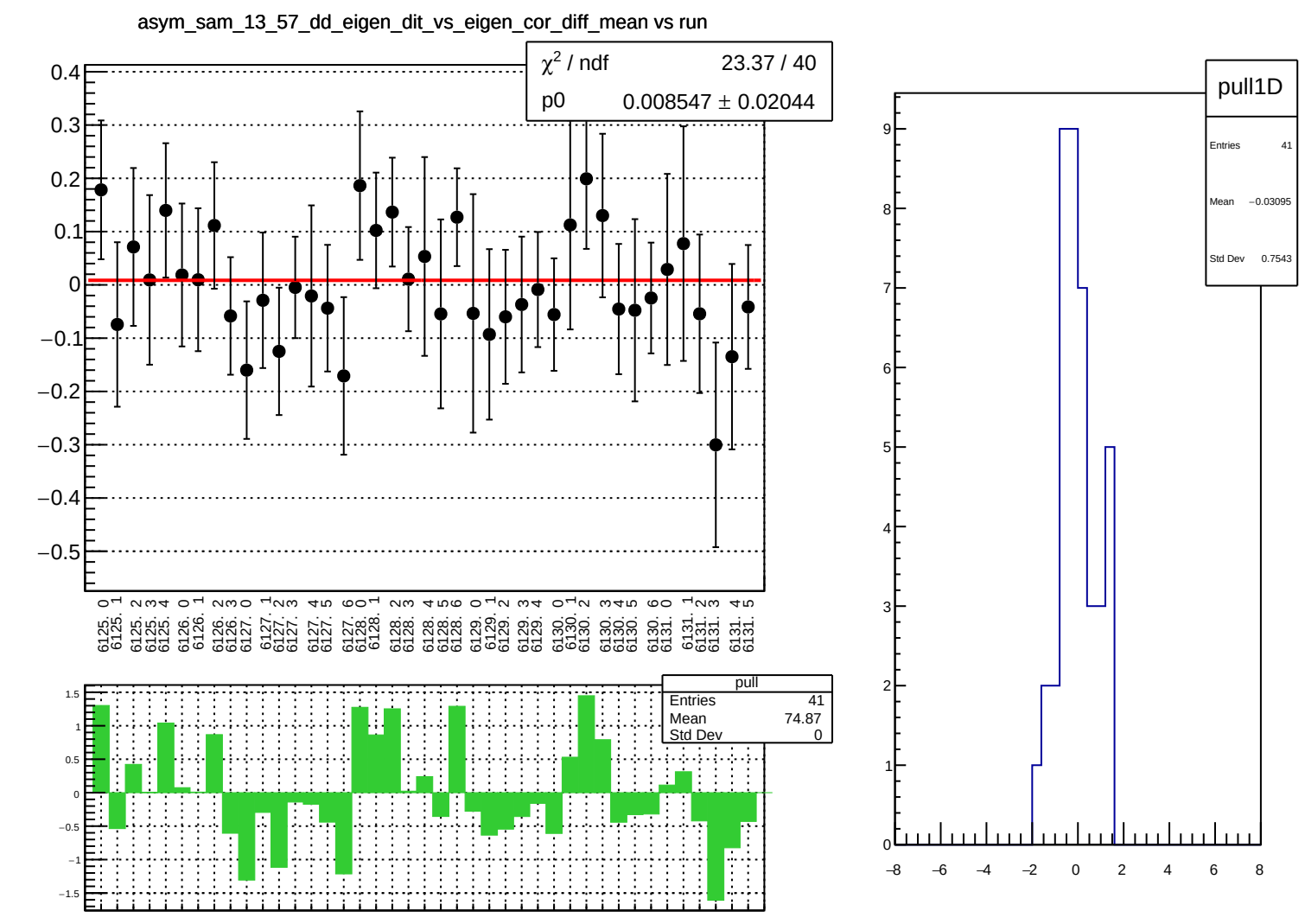

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 49.58 / 40
p0 3.151e−06 ± 2.964e−06
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −157.8
Std Dev 0
4
3
2
1
0
−1
−2

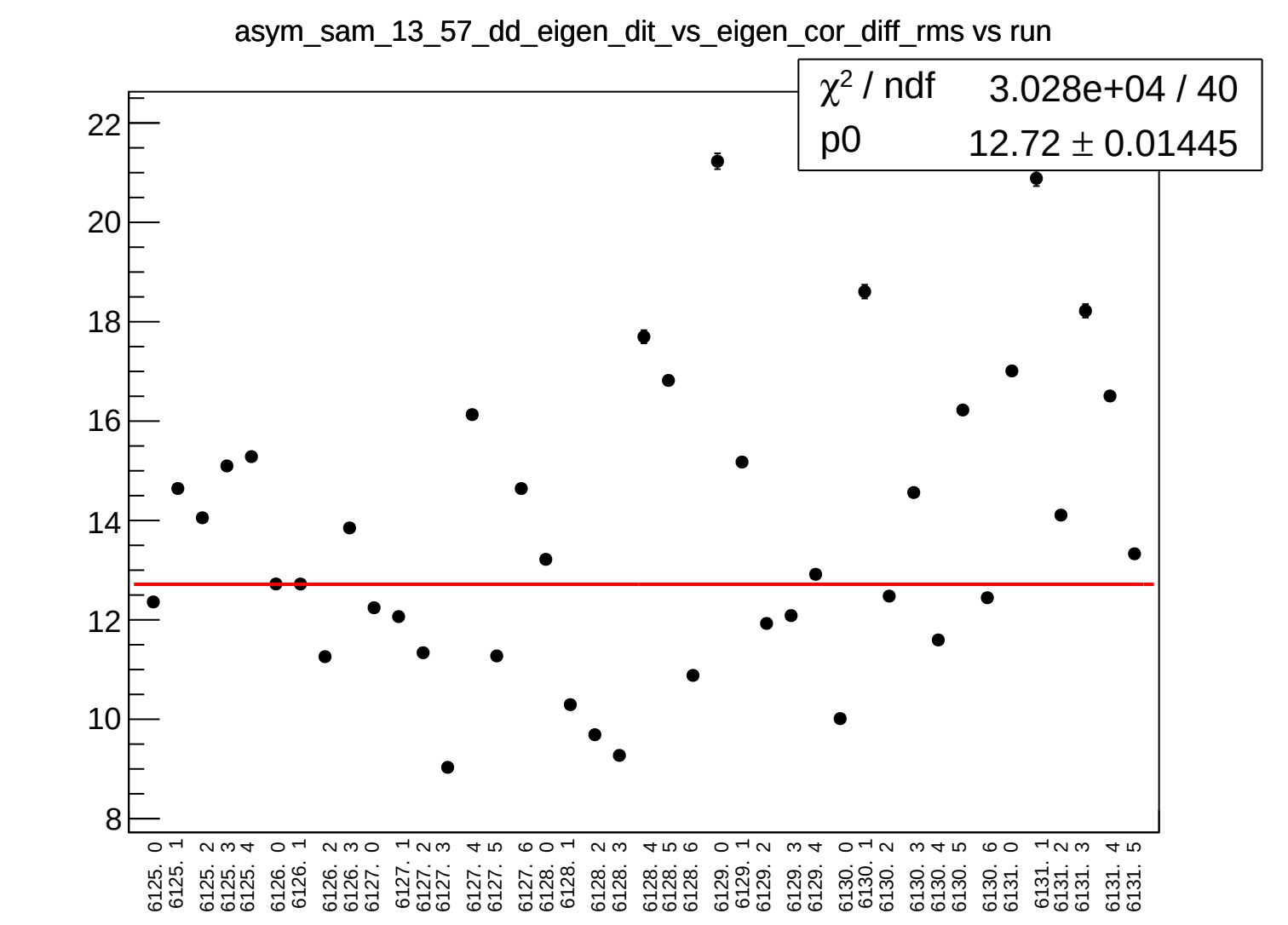

pull1D
Entries 41
Mean 0.02235
Std Dev 1.099
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

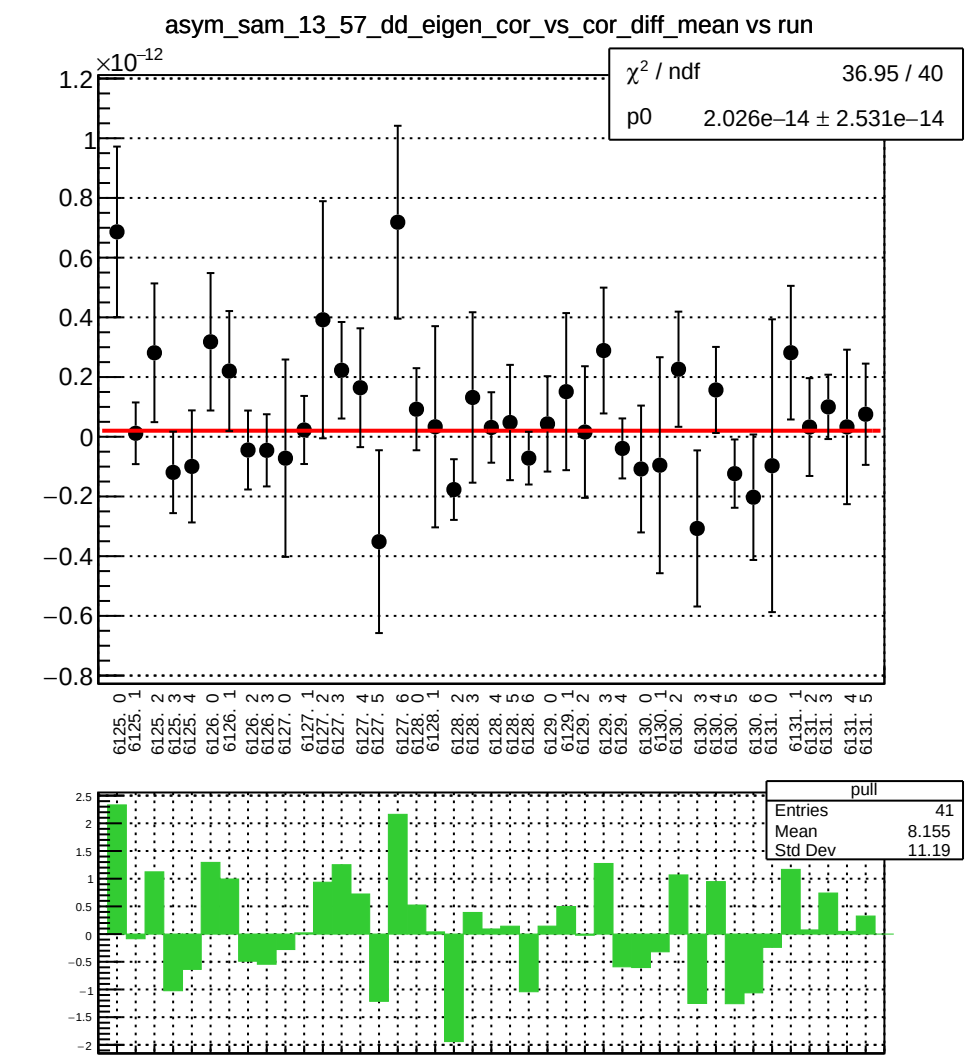

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 870.8 / 40
p0 0.001879 ± 2.096e−06
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

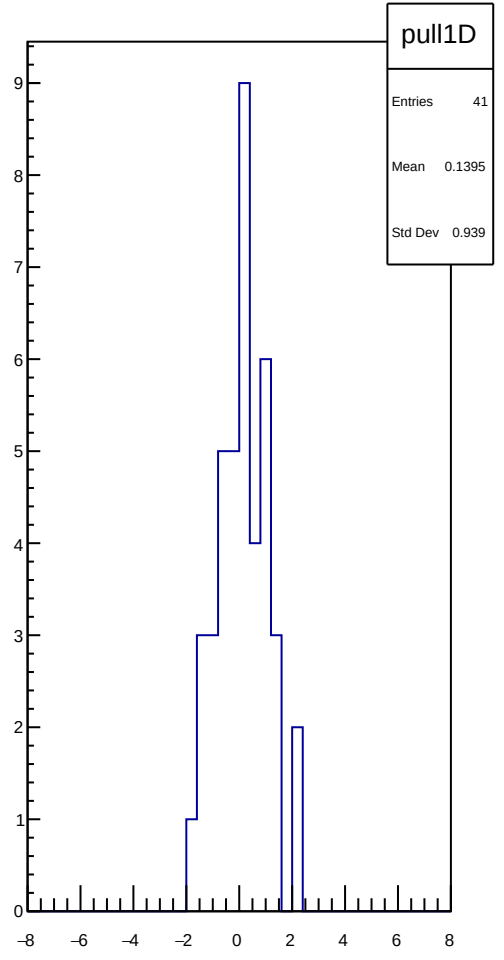

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 23.37 / 40
p0 0.008547 ± 0.02044
pull
Entries 41
Mean 74.87
Std Dev 0
pull1D
Entries 41
Mean −0.03095
Std Dev 0.7543

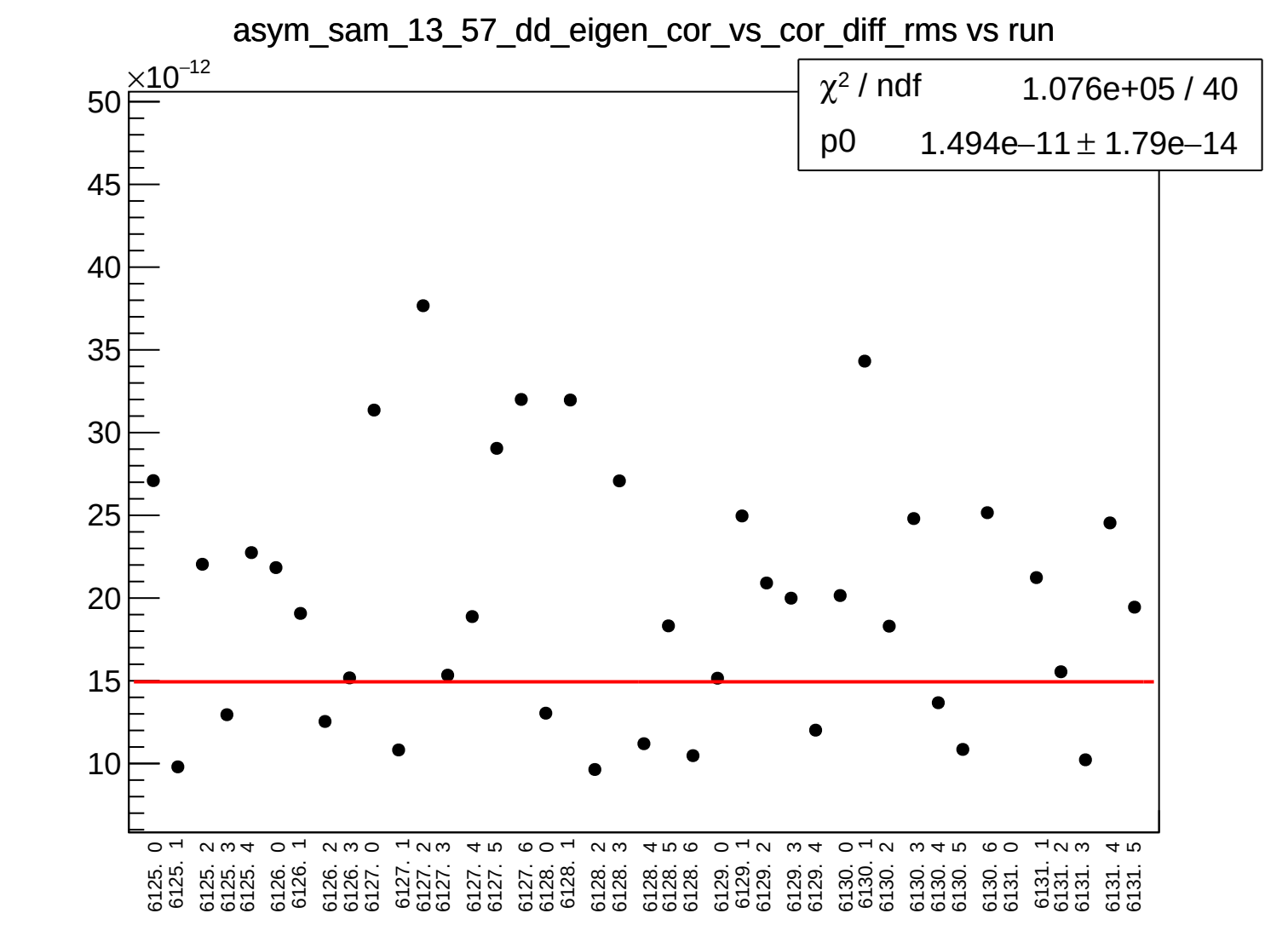

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.028e+04 / 40
p0 12.72 ± 0.01445
22
20
18
16
14
12
10
8
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

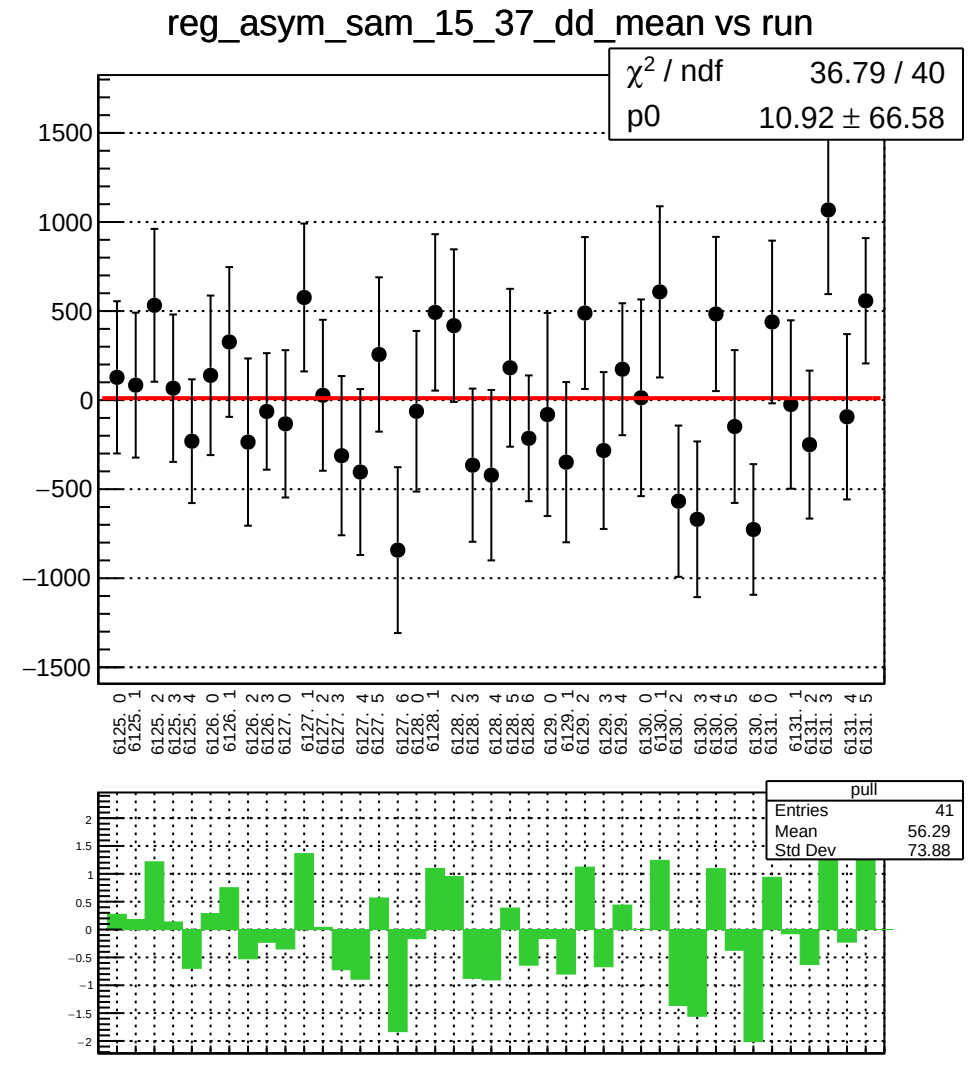

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.37 / 40
p0 0.008547 ± 0.02044
pull
Entries 41
Mean 74.87
Std Dev 0
pull1D
Entries 41
Mean −0.03095
Std Dev 0.7543

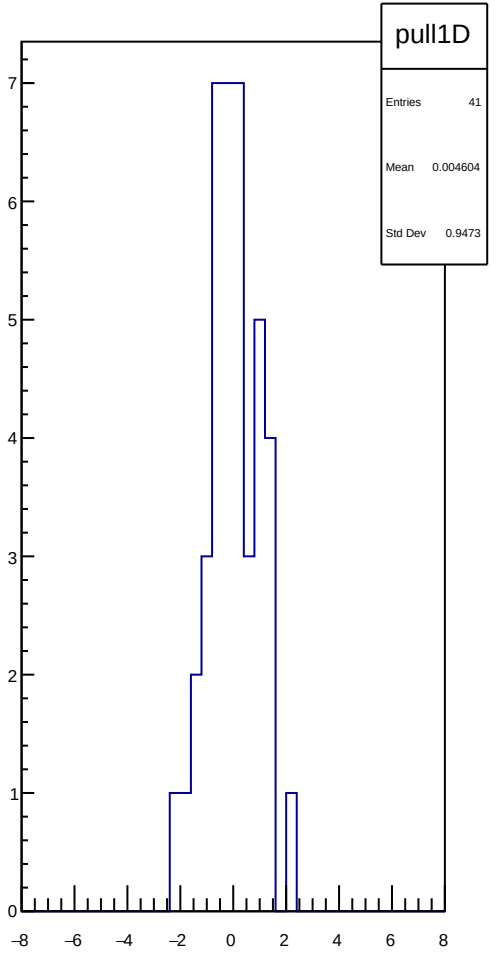

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.028e+04 / 40
p0 12.72 ± 0.01445
22
20
18
16
14
12
10
8
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

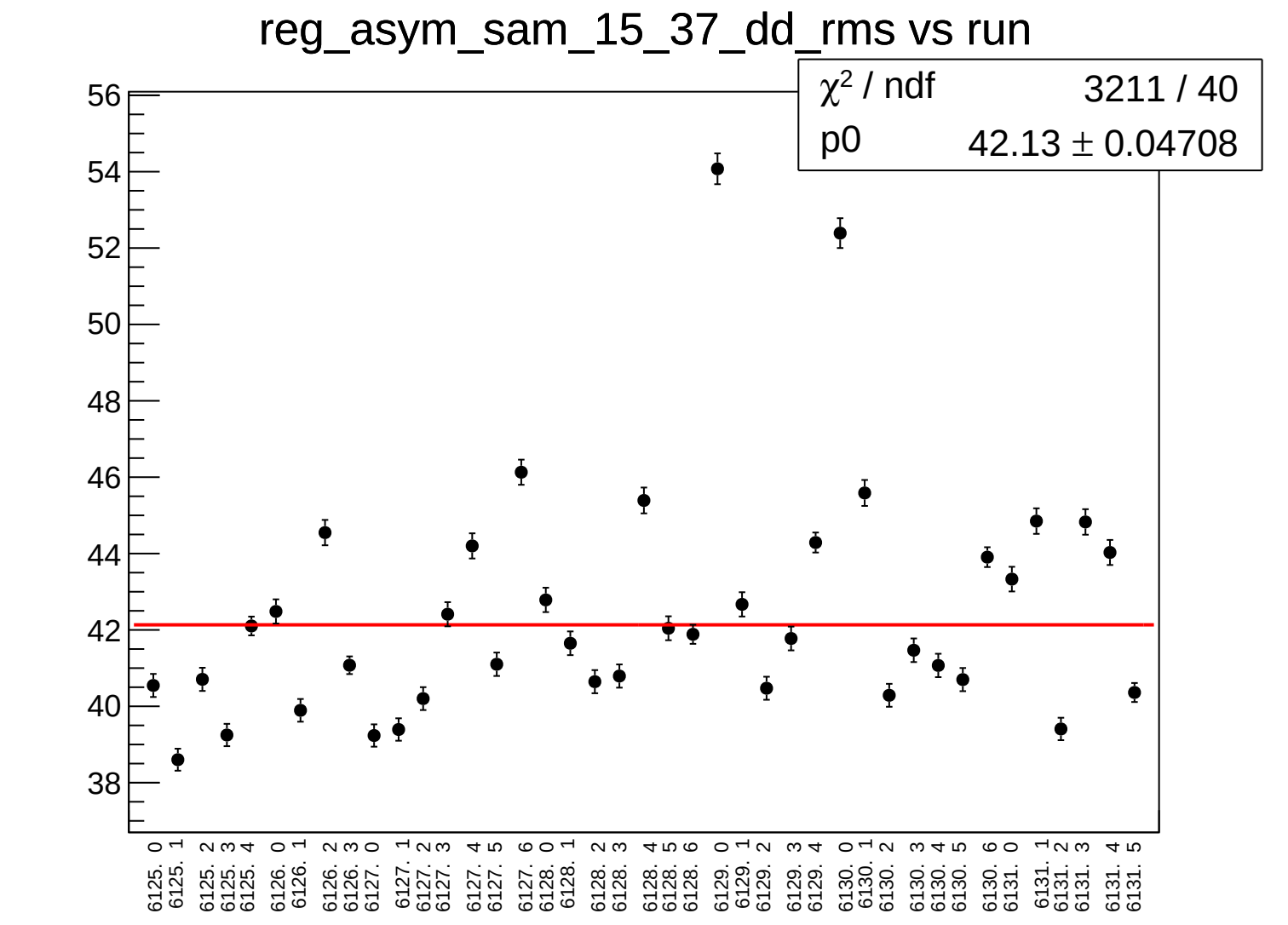

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 36.95 / 40
p0 2.026e−14 ± 2.531e−14
pull
Entries 41
Mean 8.155
Std Dev 11.19

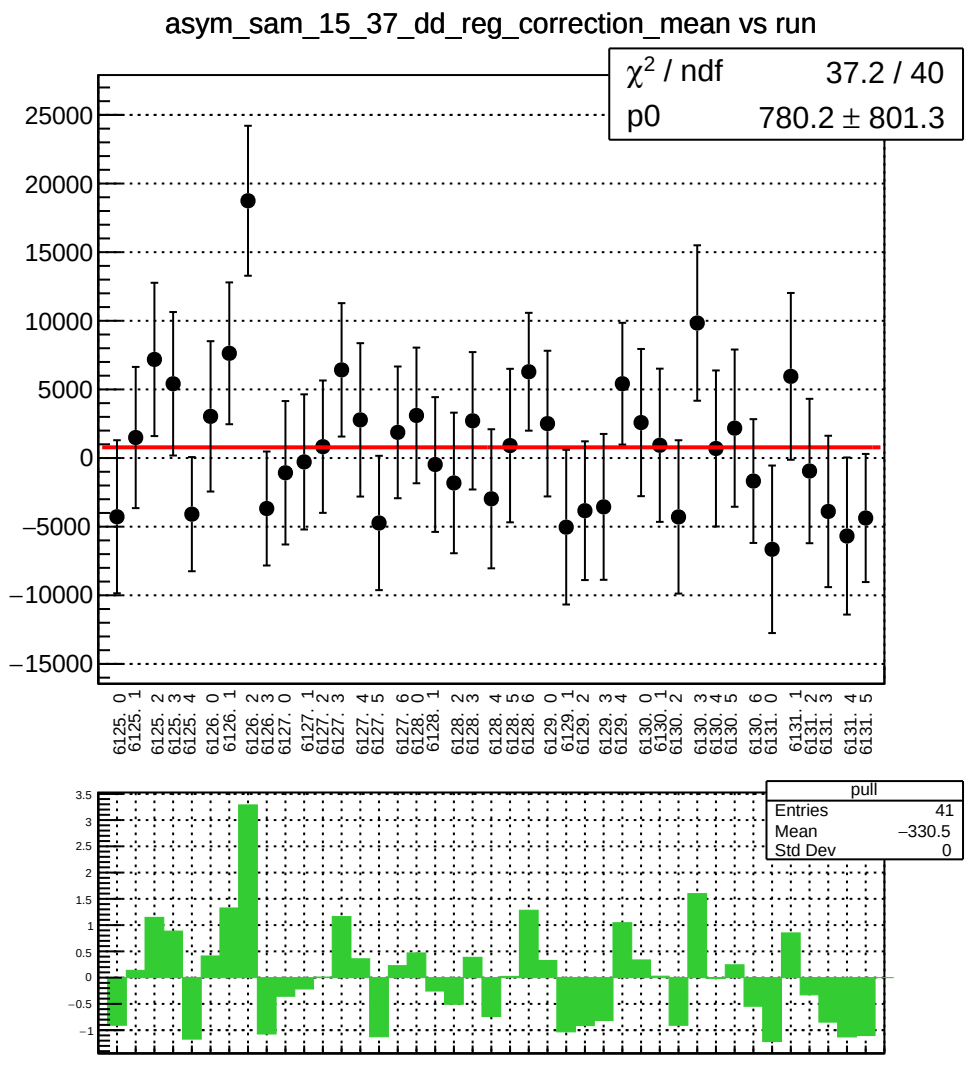

pull1D
Entries 41
Mean 0.1395
Std Dev 0.939

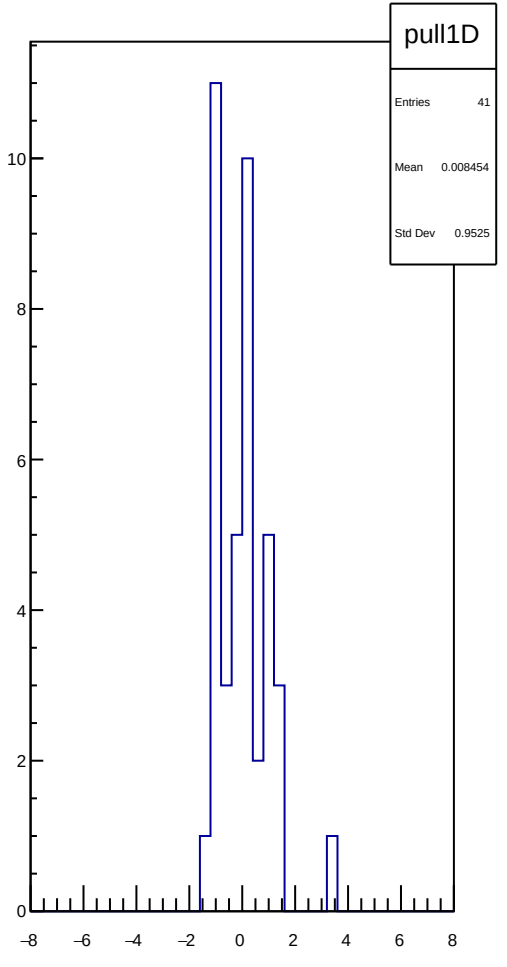

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.076e+05 / 40
p0 1.494e−11 ± 1.79e−14
50
45
40
35
30
25
20
15
10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

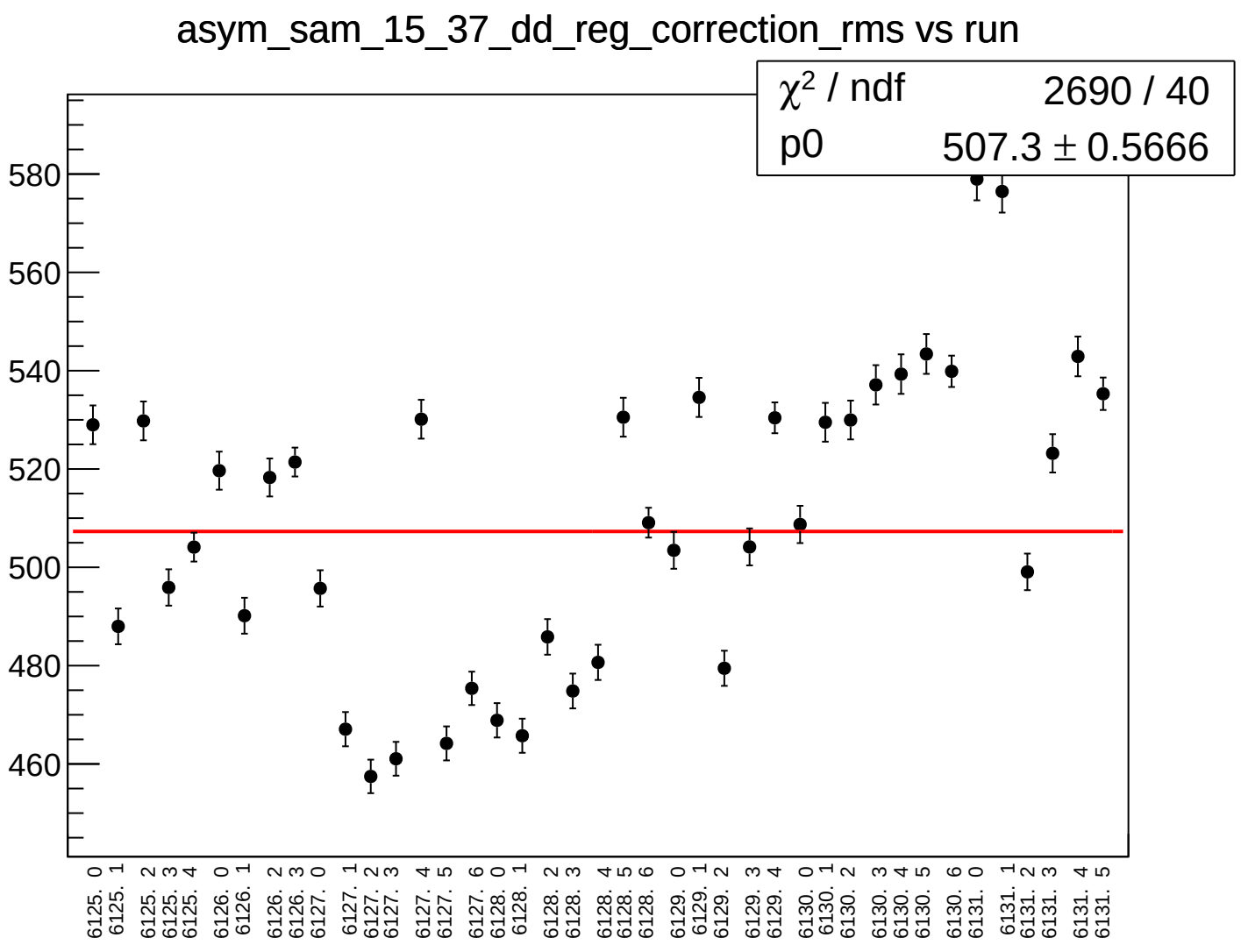

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 36.79 / 40
p0 10.92 ± 66.58
1500
1000
500
0
−500
−1000
−1500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 56.29
Std Dev 73.88
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

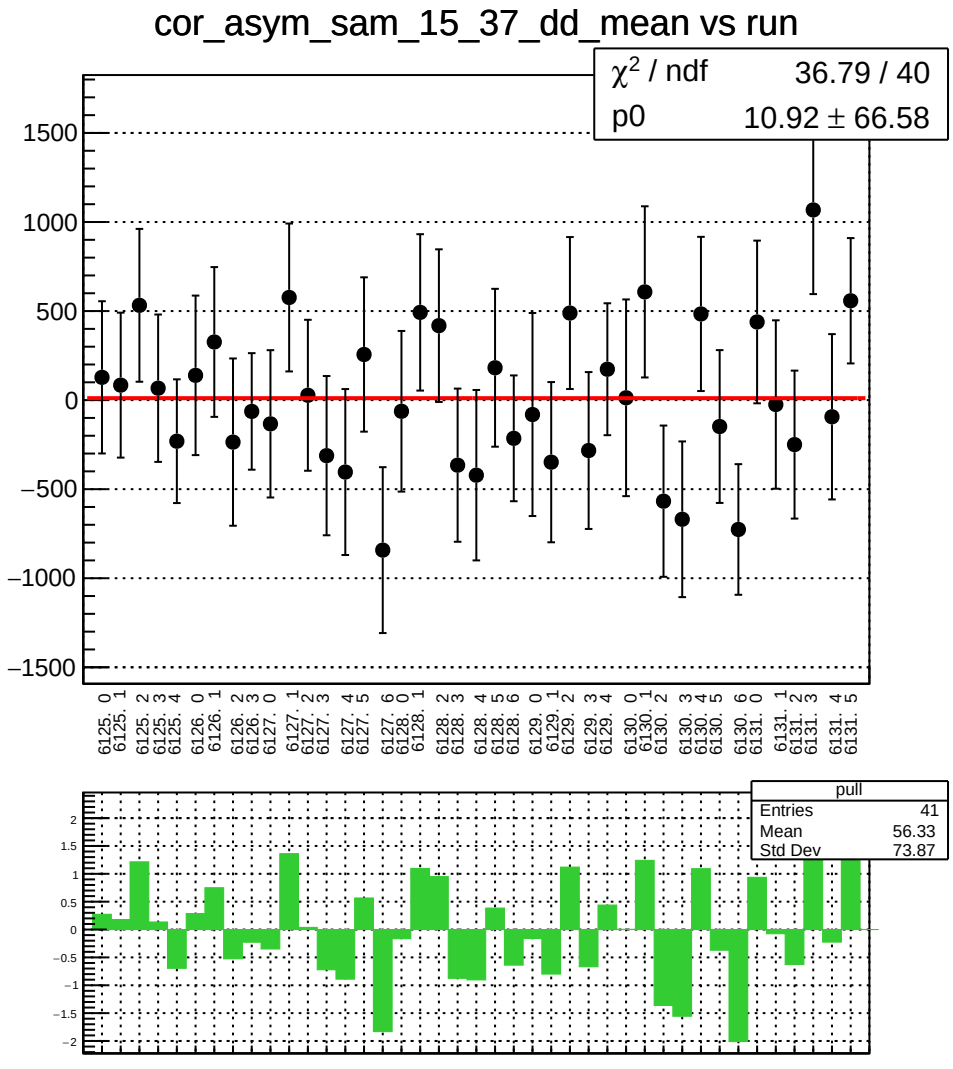

pull1D
Entries 41
Mean 0.004604
Std Dev 0.9473
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

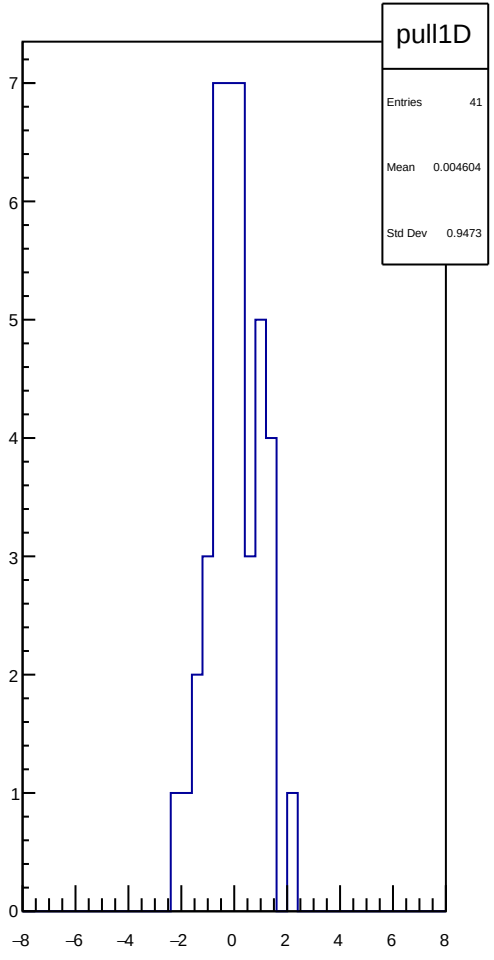

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 3211 / 40
p0 42.13 ± 0.04708
56
54
52
50
48
46
44
42
40
38
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

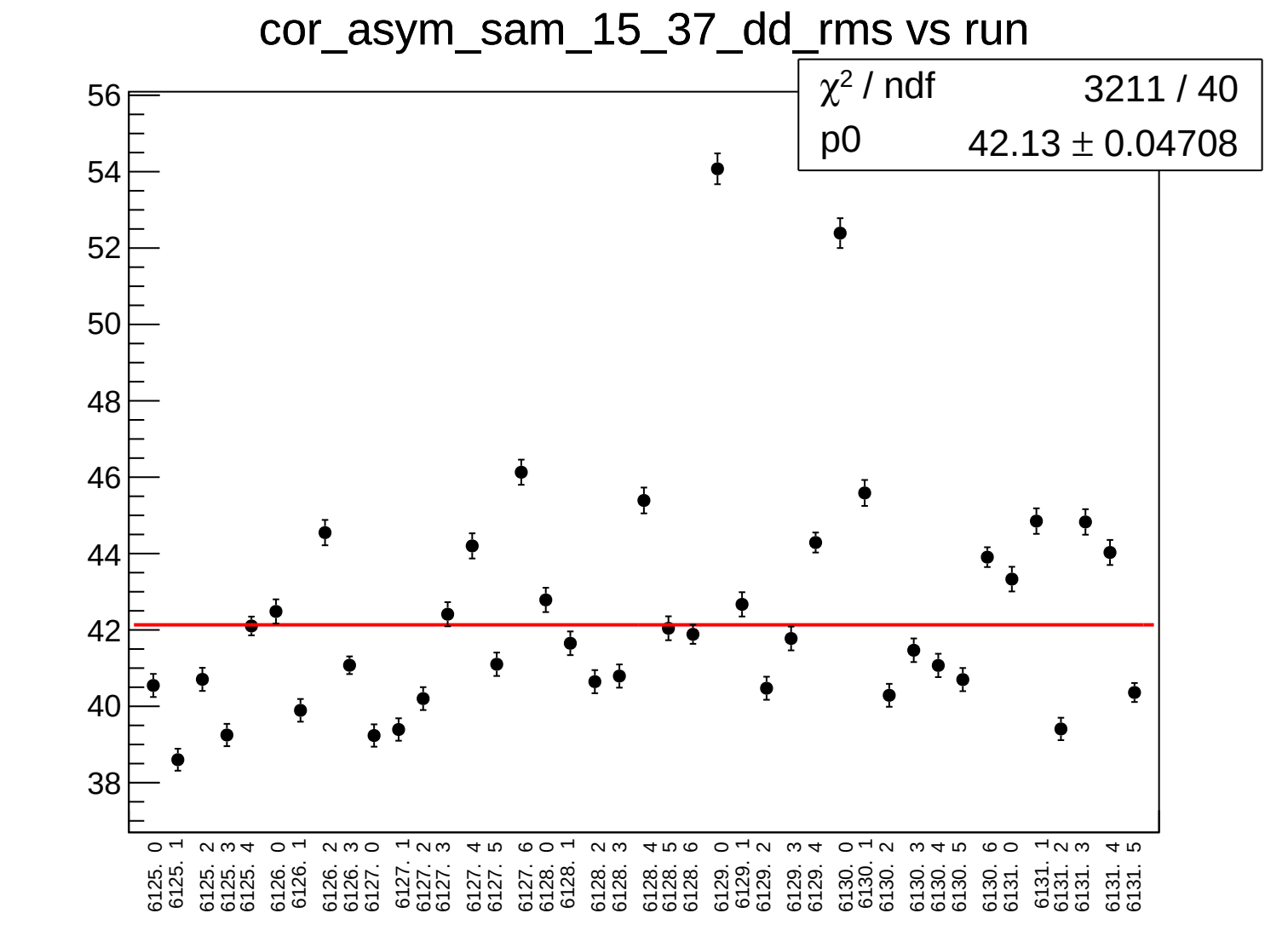

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 37.2 / 40
p0 780.2 ± 801.3
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −330.5
Std Dev 0
3.5
3
2.5
2
1.5
1
0.5
0
−0.5
−1

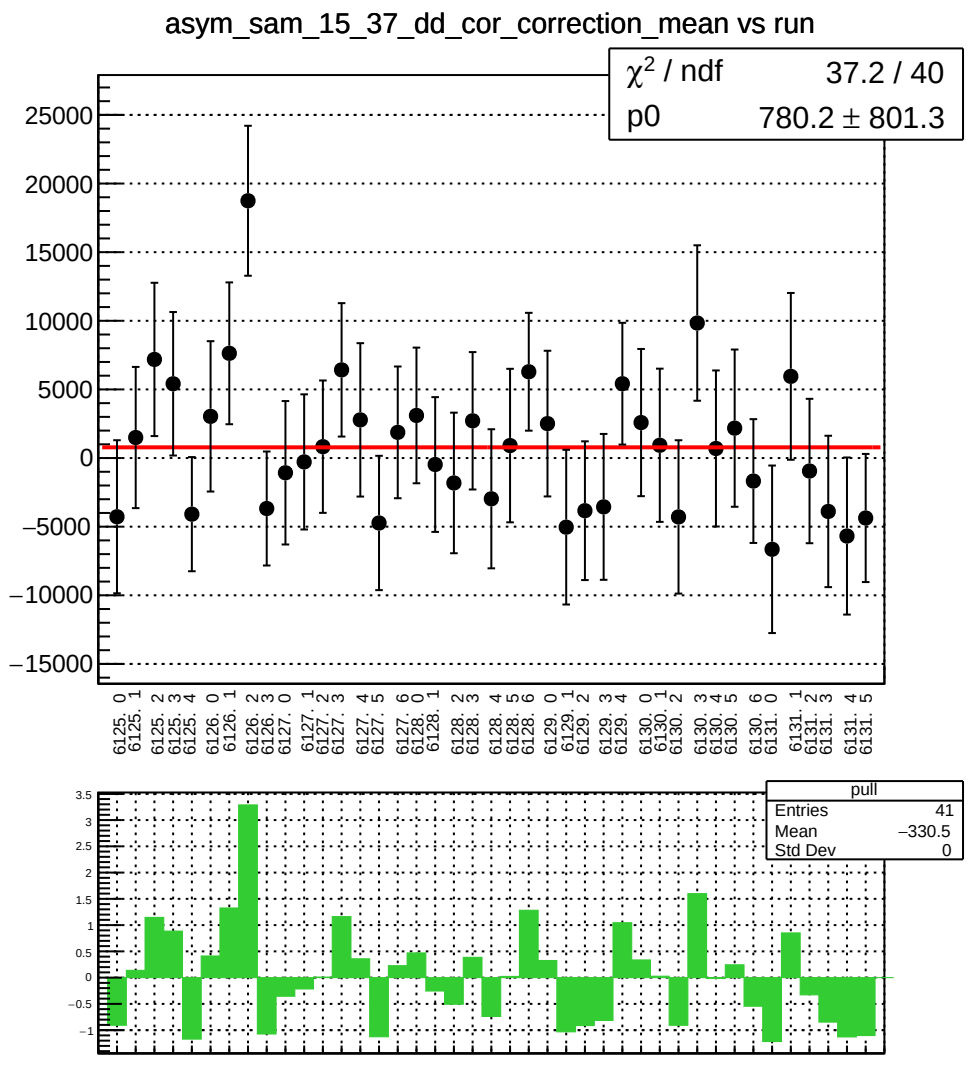

pull1D
Entries 41
Mean 0.008454
Std Dev 0.9525
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

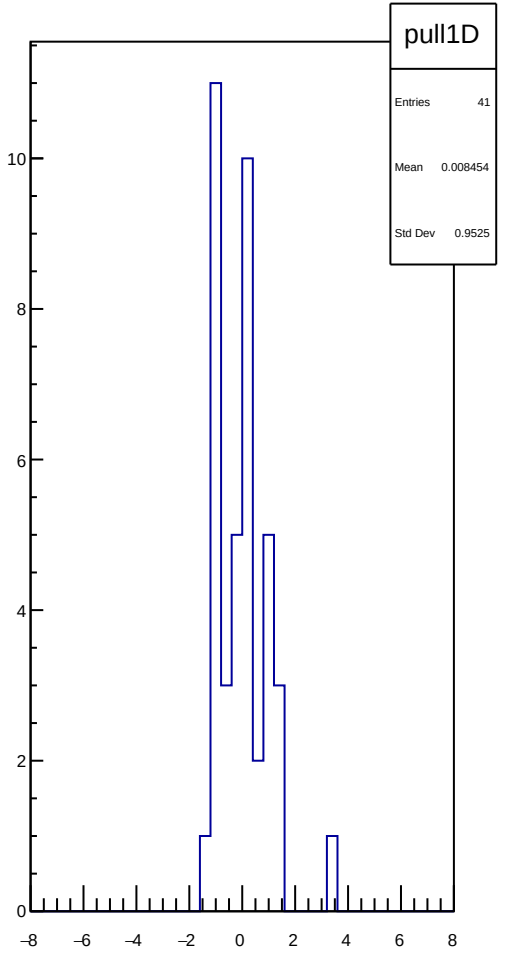

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 2690 / 40
p0 507.3 ± 0.5666
580
560
540
520
500
480
460
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

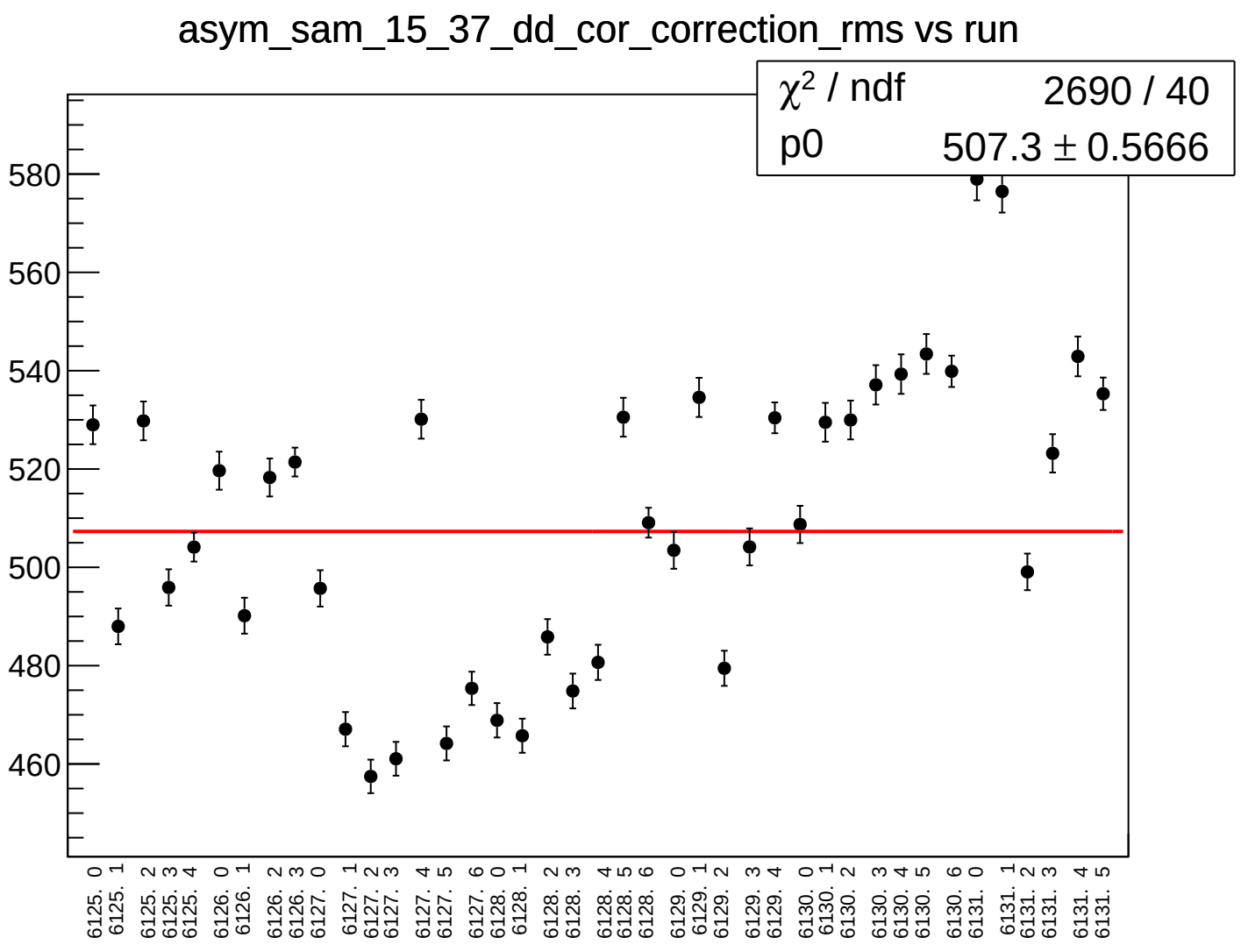

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 36.79 / 40
p0 10.92 ± 66.58
1500
1000
500
0
−500
−1000
−1500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 56.33
Std Dev 73.87
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

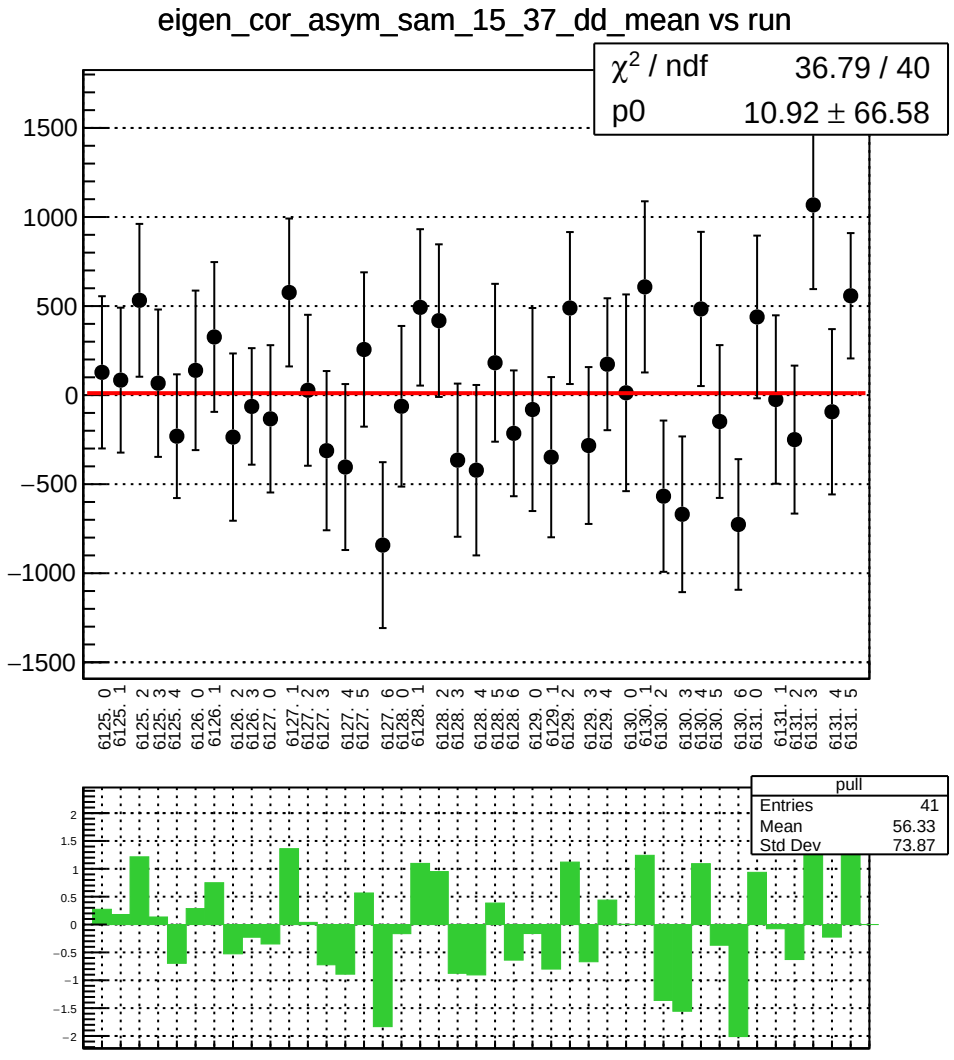

pull1D
Entries 41
Mean 0.004604
Std Dev 0.9473
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

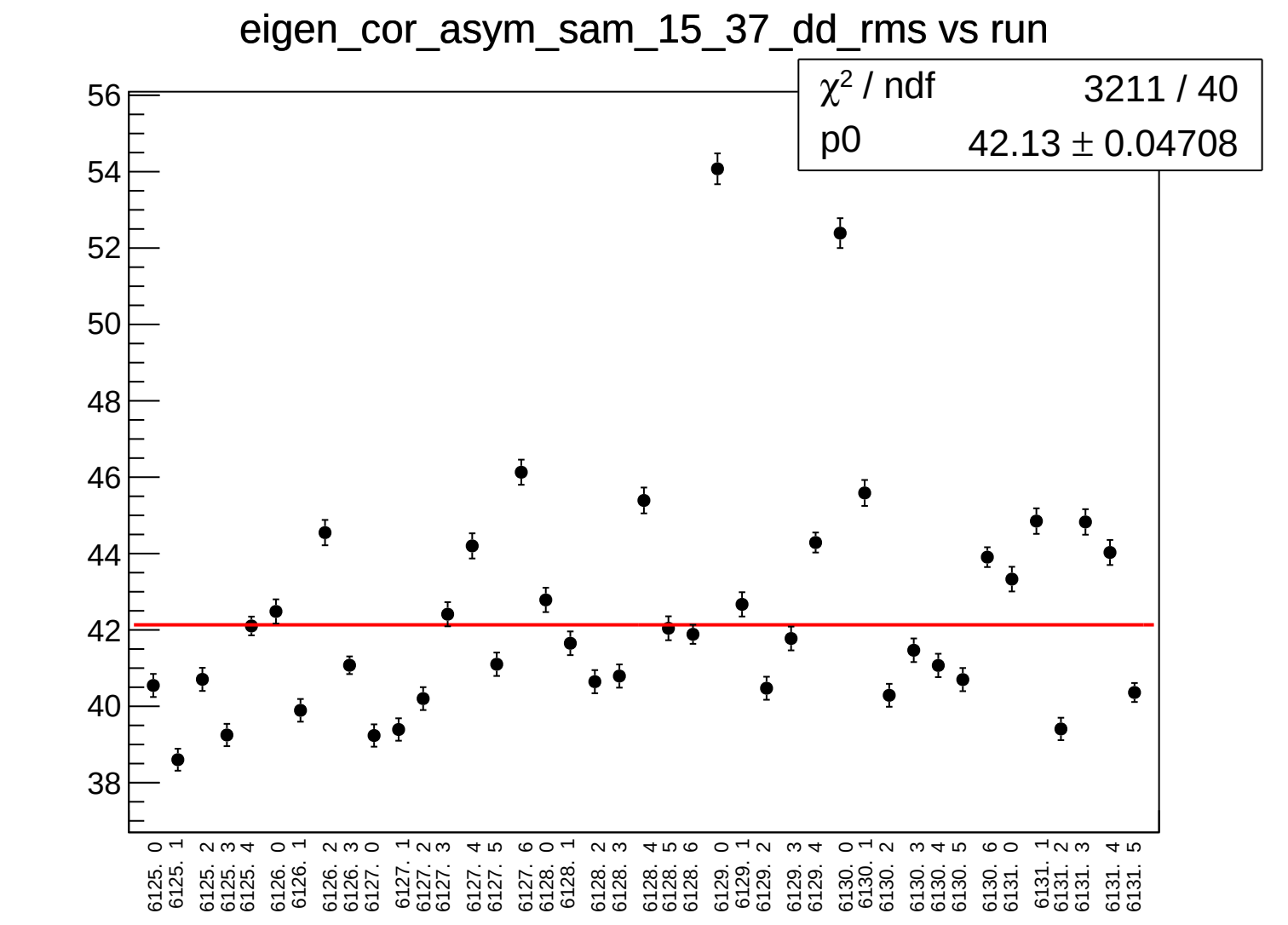

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 3211 / 40
p0 42.13 ± 0.04708
56
54
52
50
48
46
44
42
40
38
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

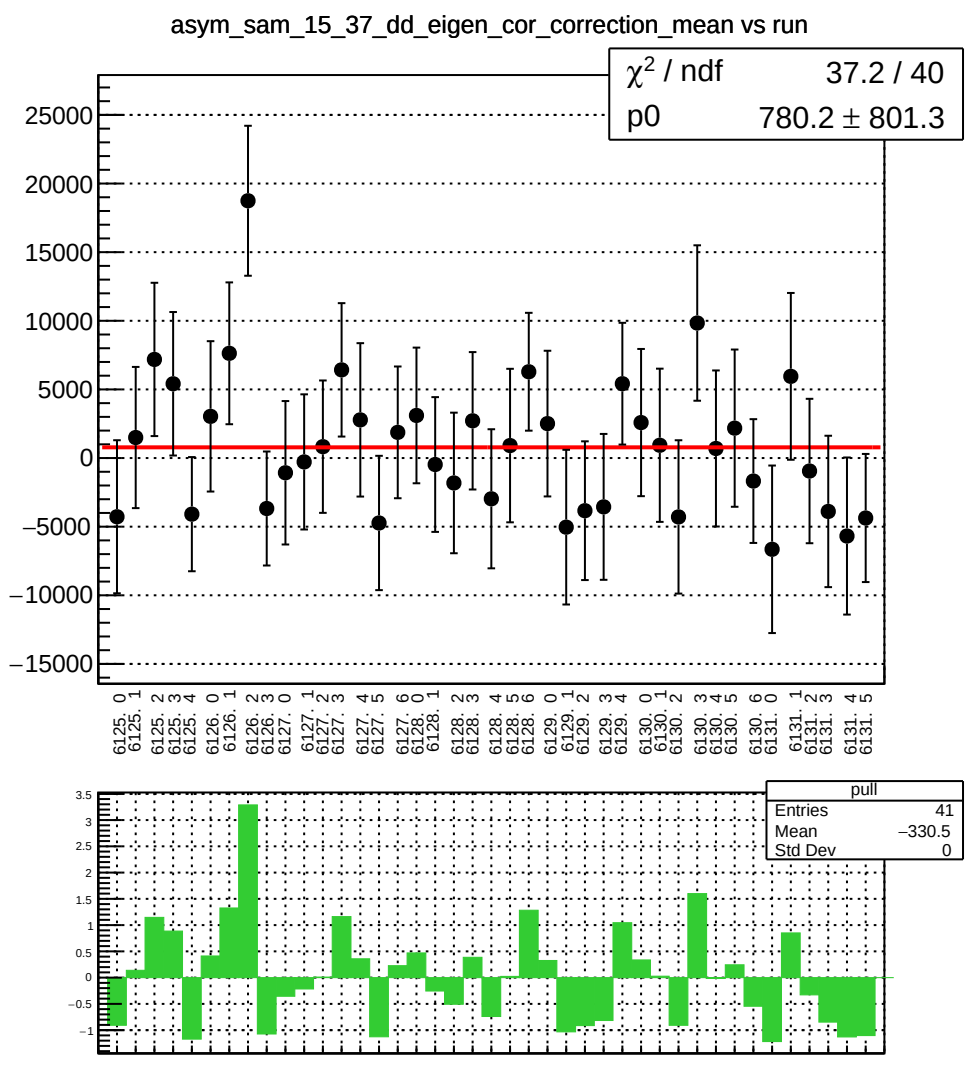

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 37.2 / 40
p0 780.2 ± 801.3
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −330.5
Std Dev 0
3.5
3
2.5
2
1.5
1
0.5
0
−0.5
−1

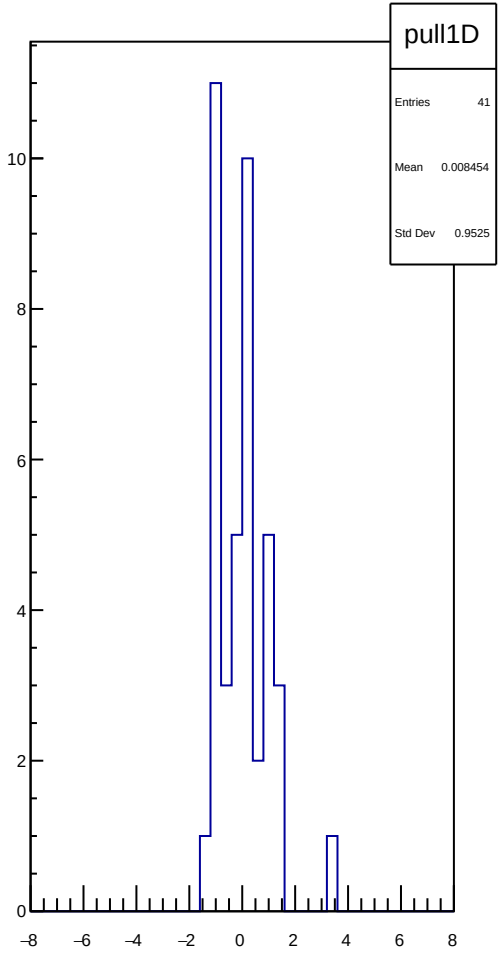

pull1D
Entries 41
Mean 0.008454
Std Dev 0.9525
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

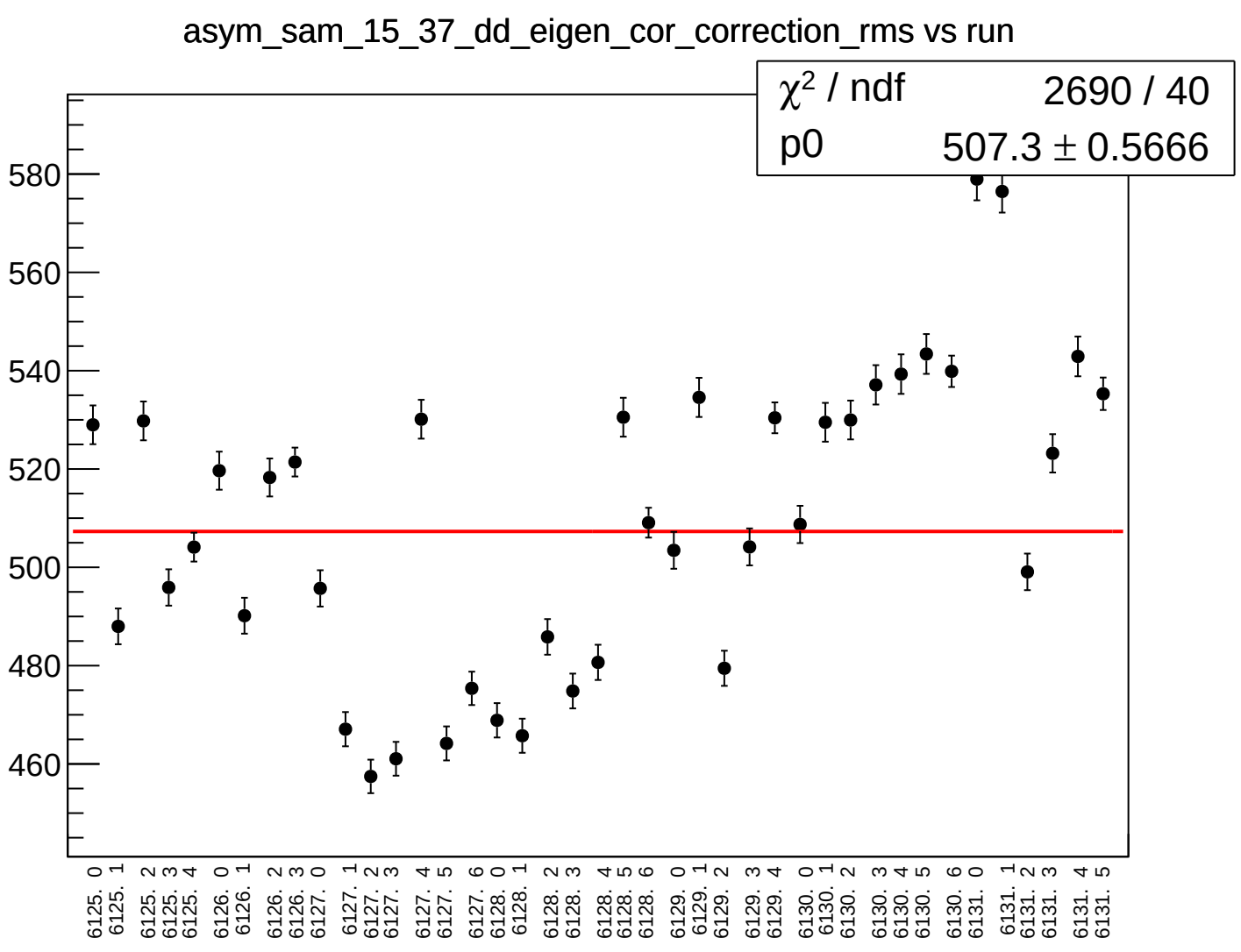

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 2690 / 40
p0 507.3 ± 0.5666
580
560
540
520
500
480
460
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

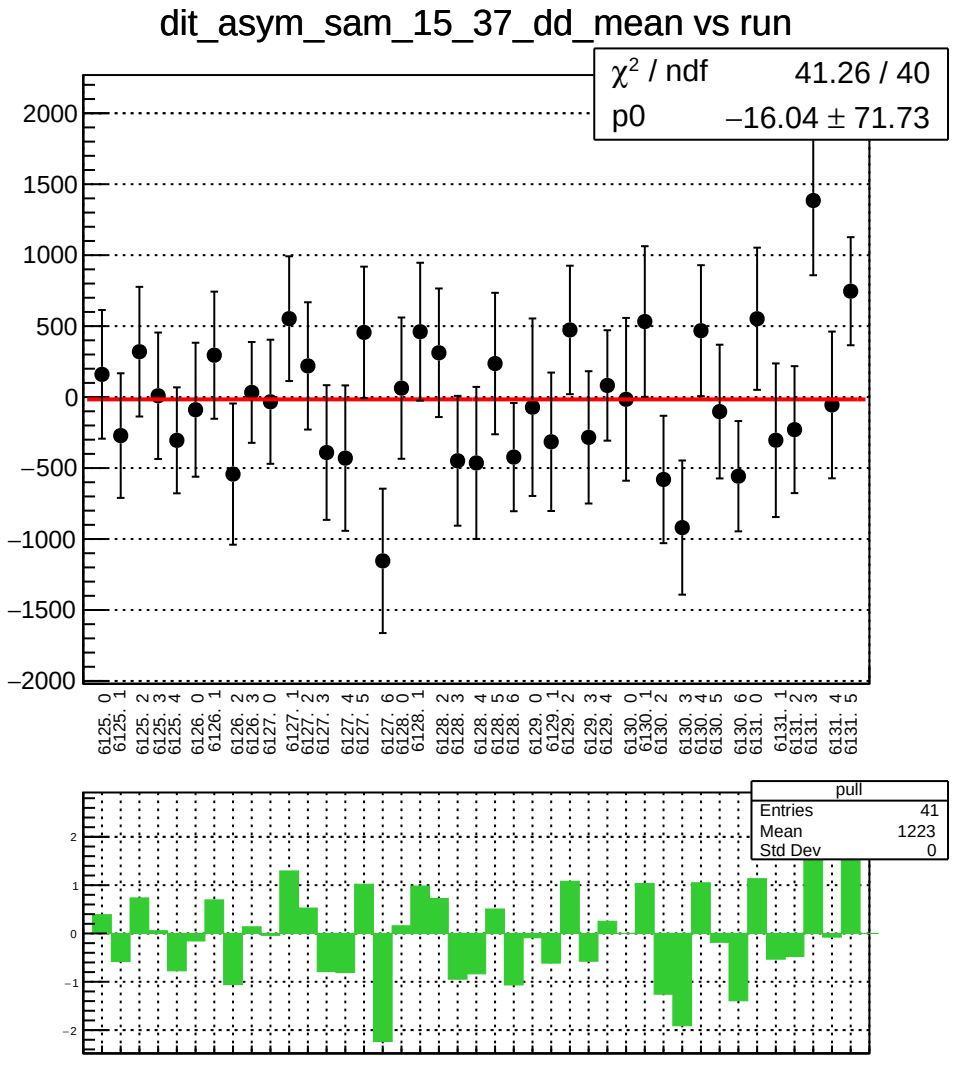

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 36.79 / 40
p0 10.92 ± 66.58
1500
1000
500
0
−500
−1000
−1500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 56.33
Std Dev 73.87
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.004604
Std Dev 0.9473
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

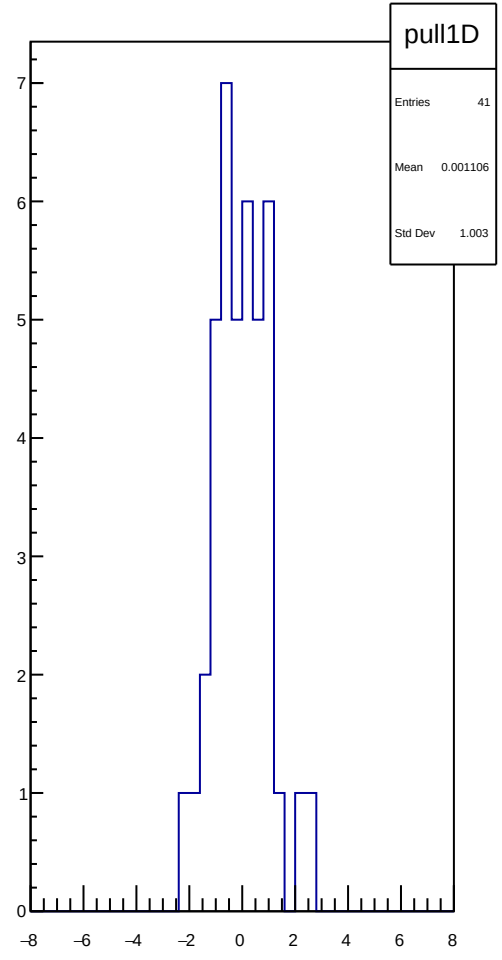

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 3211 / 40
p0 42.13 ± 0.04708
56
54
52
50
48
46
44
42
40
38
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

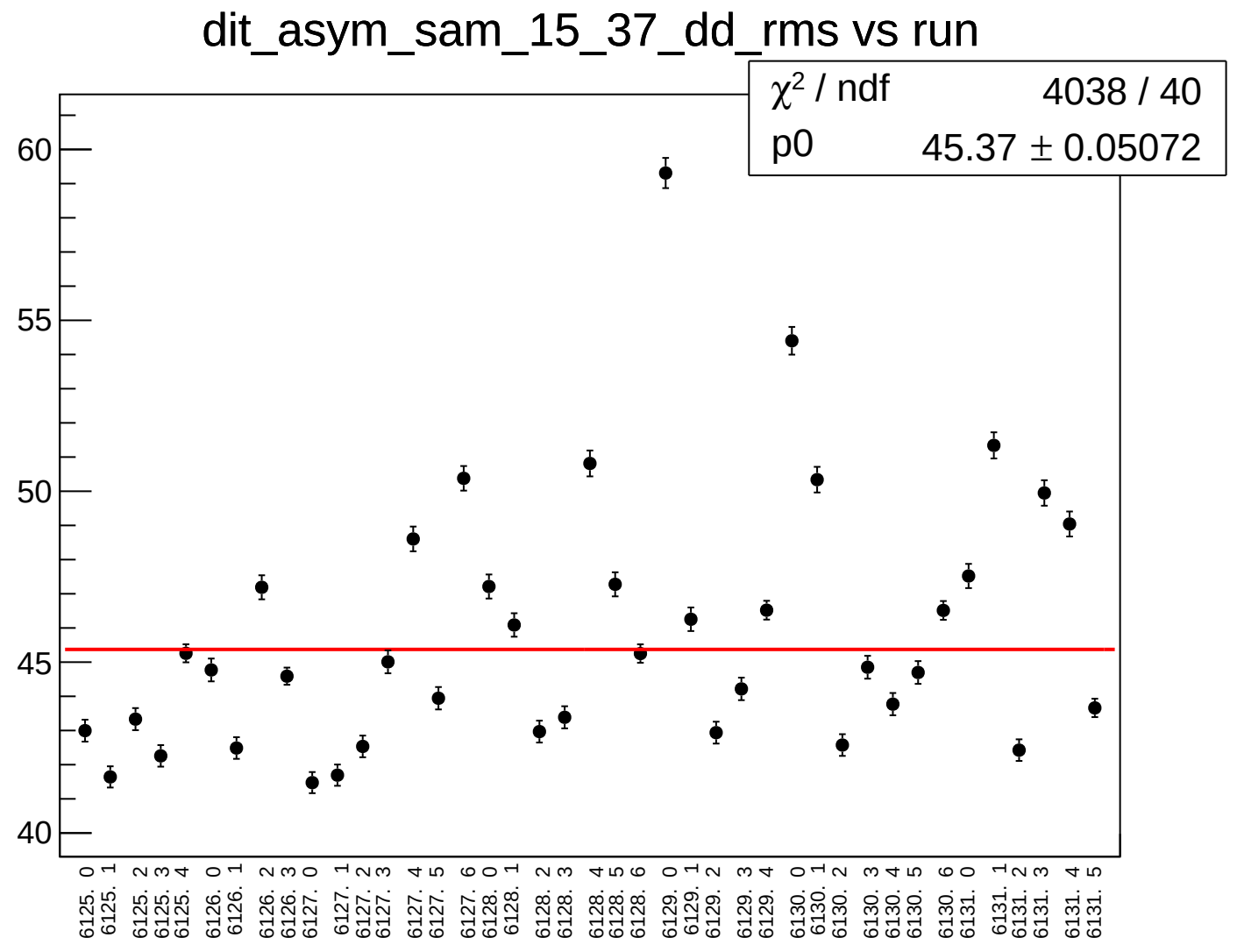

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 37.2 / 40
p0 780.2 ± 801.3
pull
Entries 41
Mean −330.5
Std Dev 0

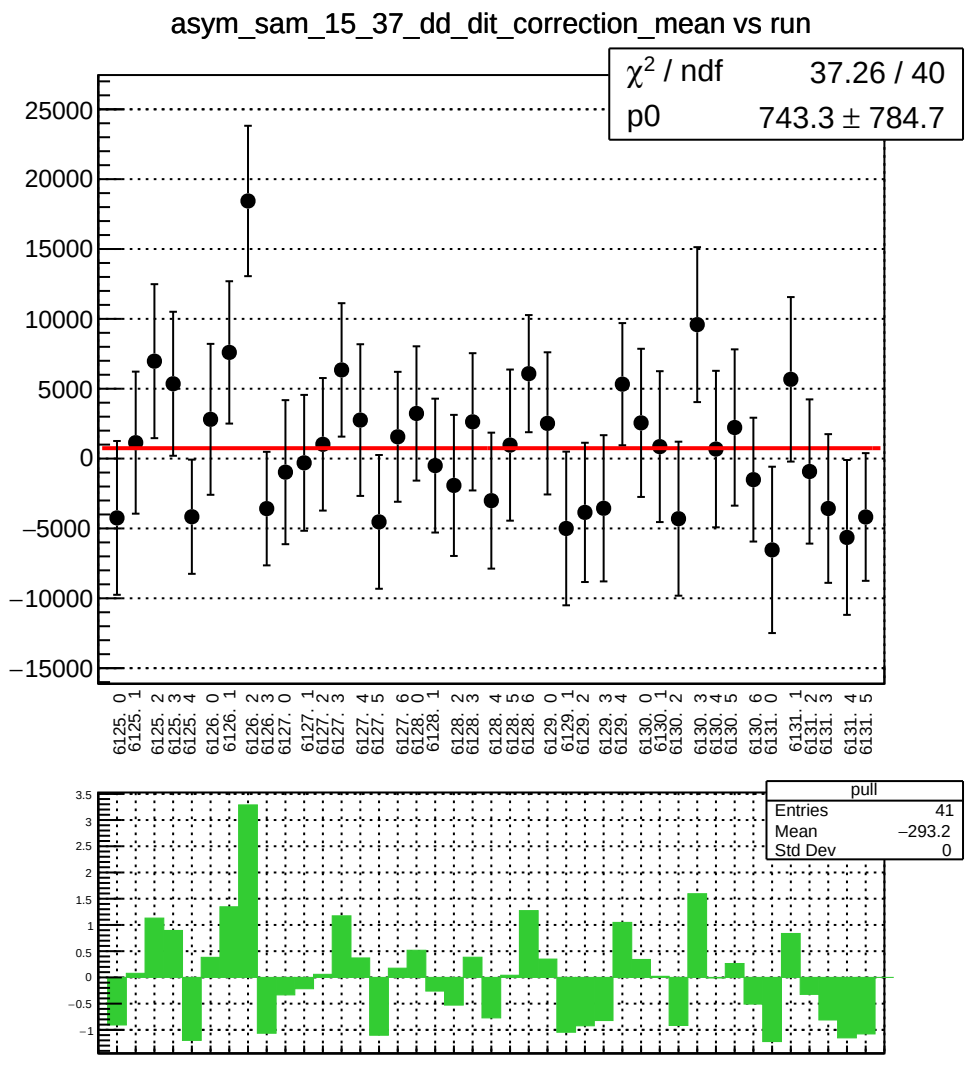

pull1D
Entries 41
Mean 0.008454
Std Dev 0.9525

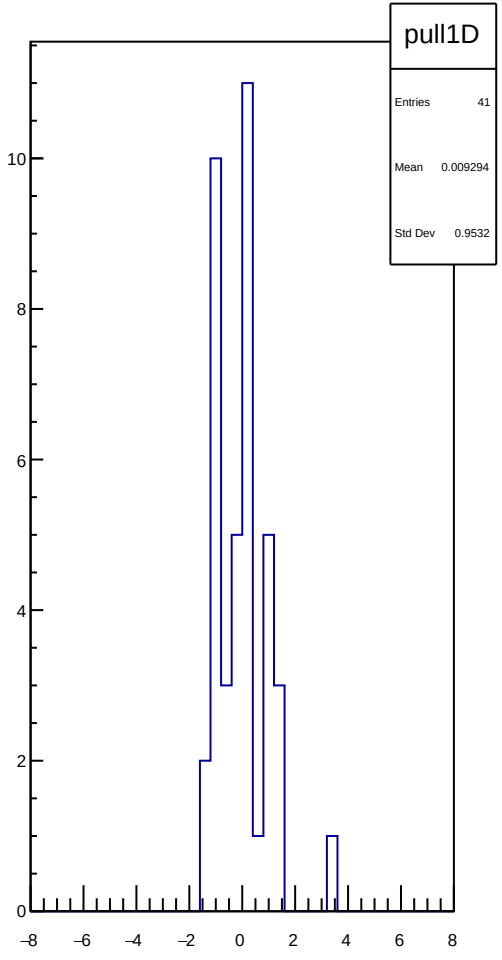

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 2690 / 40
p0 507.3 ± 0.5666
580
560
540
520
500
480
460
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

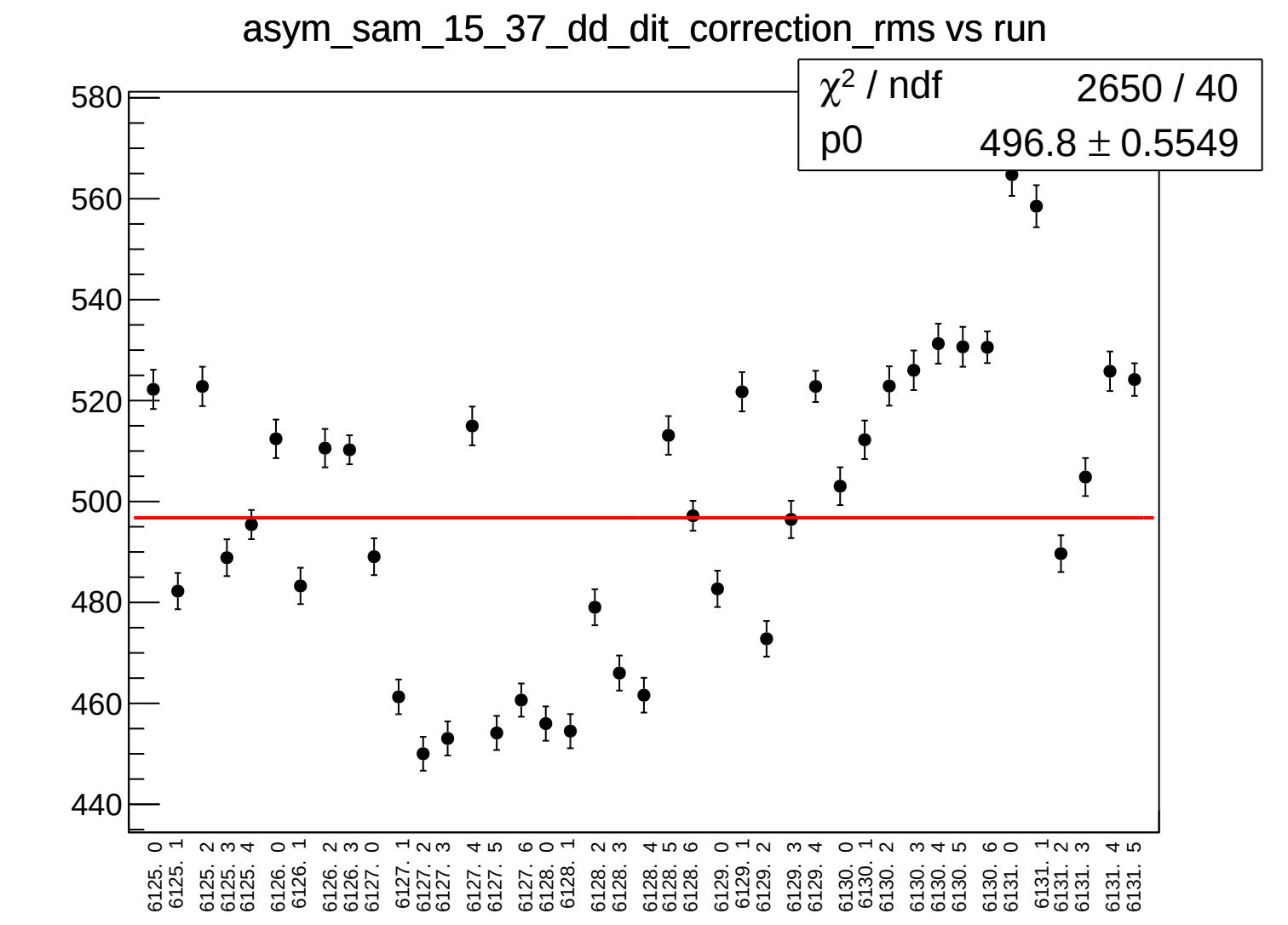

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 41.26 / 40
p0 −16.04 ± 71.73
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1223
Std Dev 0
2
1
0
−1
−2

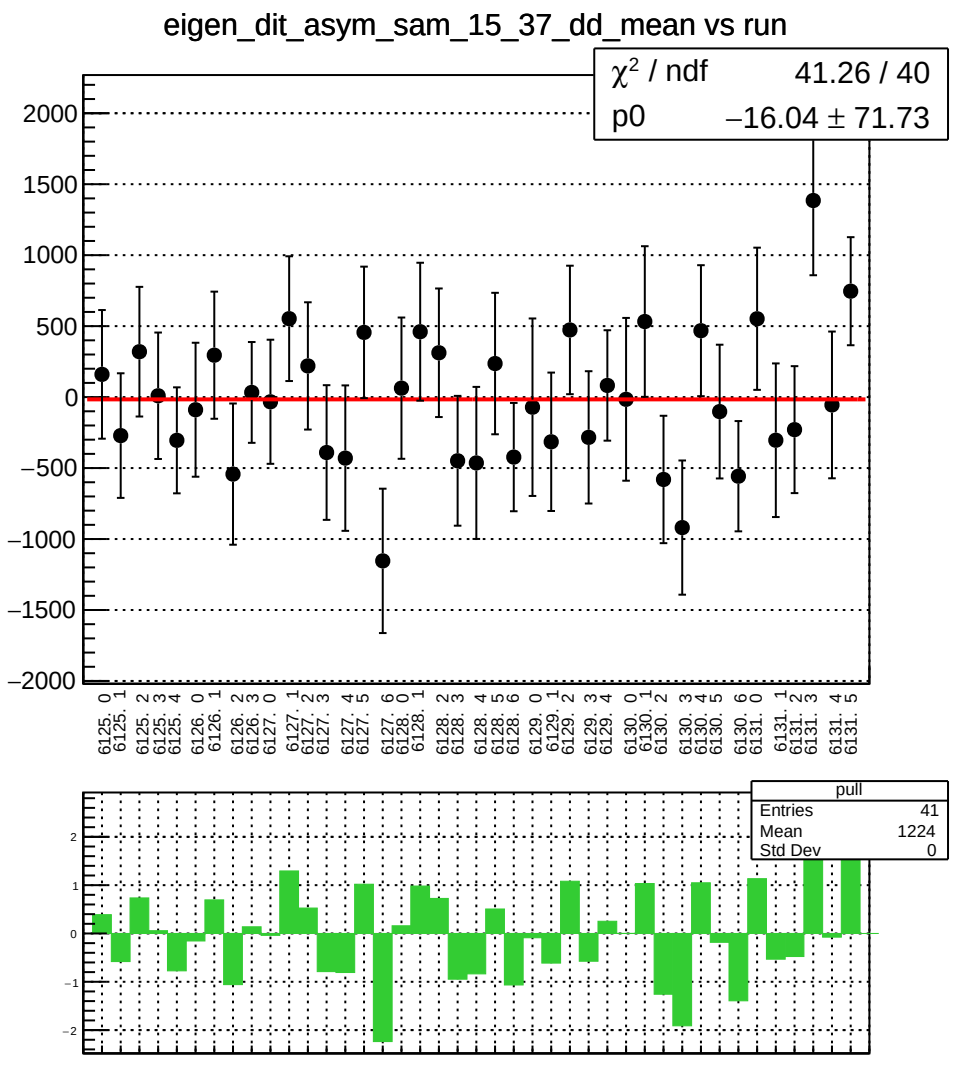

pull1D
Entries 41
Mean 0.001106
Std Dev 1.003
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

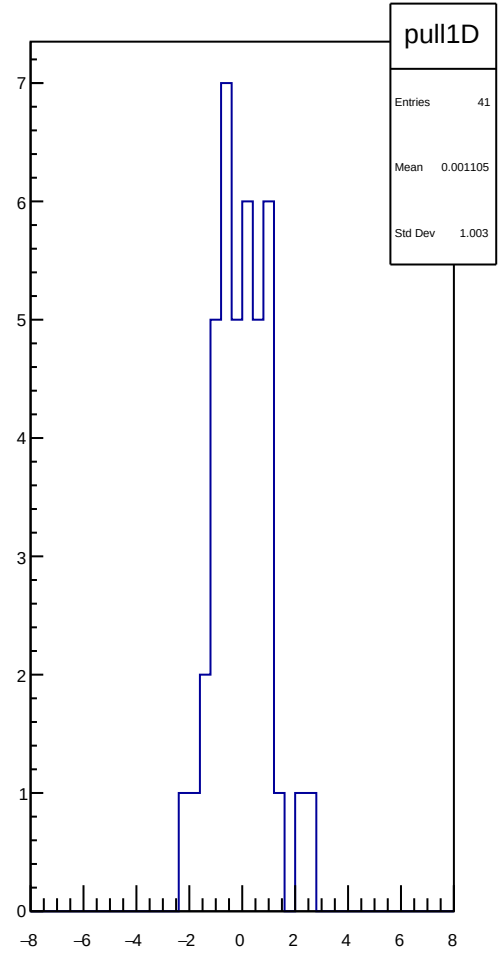

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 4038 / 40
p0 45.37 ± 0.05072
60
55
50
45
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

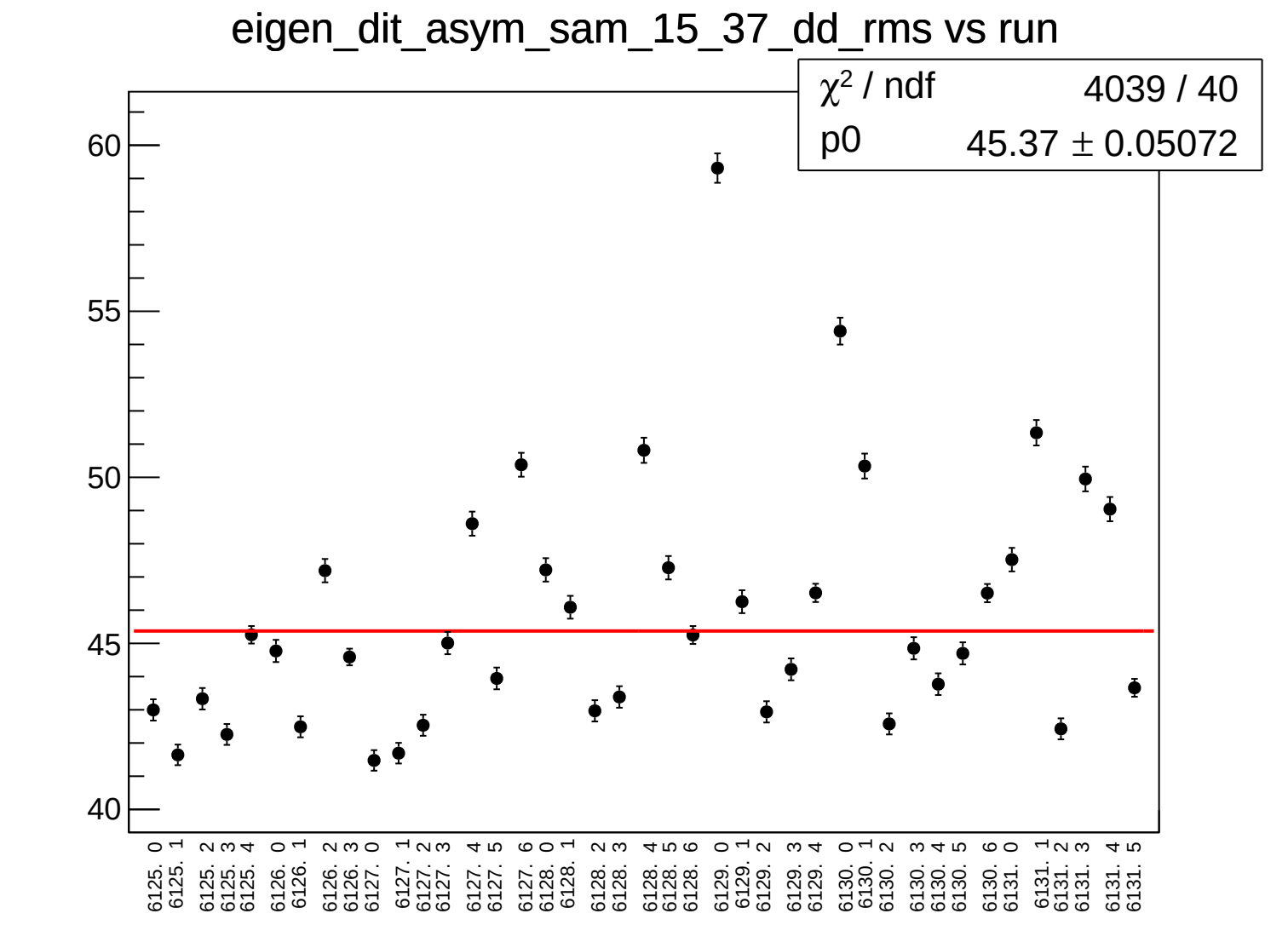

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 37.26 / 40
p0 743.3 ± 784.7
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −293.2
Std Dev 0
3.5
3
2.5
2
1.5
1
0.5
0
−0.5
−1

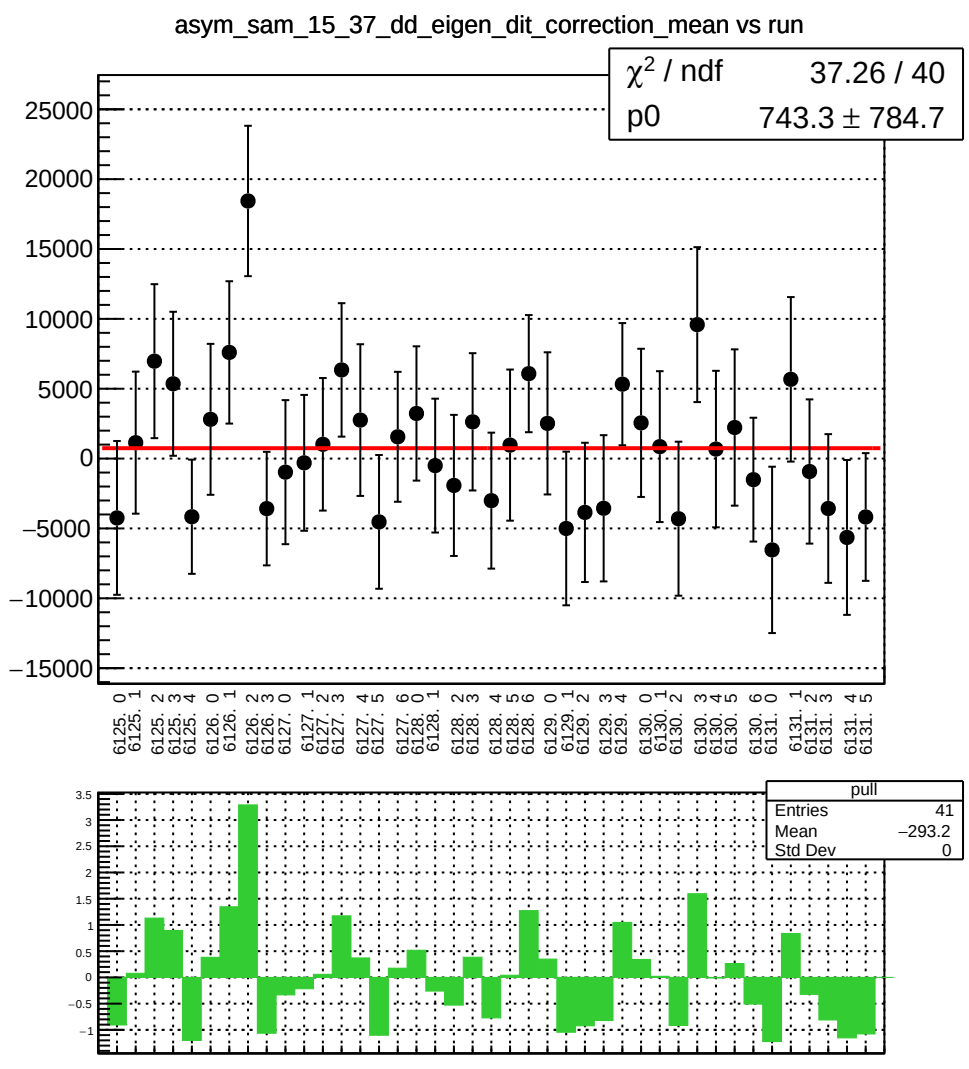

pull1D
Entries 41
Mean 0.009294
Std Dev 0.9532
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 2650 / 40
p0 496.8 ± 0.5549
580
560
540
520
500
480
460
440
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 41.26 / 40
p0 −16.04 ± 71.73
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1224
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean 0.001105
Std Dev 1.003
7
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 4039 / 40
p0 45.37 ± 0.05072
60
55
50
45
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 37.26 / 40
p0 743.3 ± 784.7
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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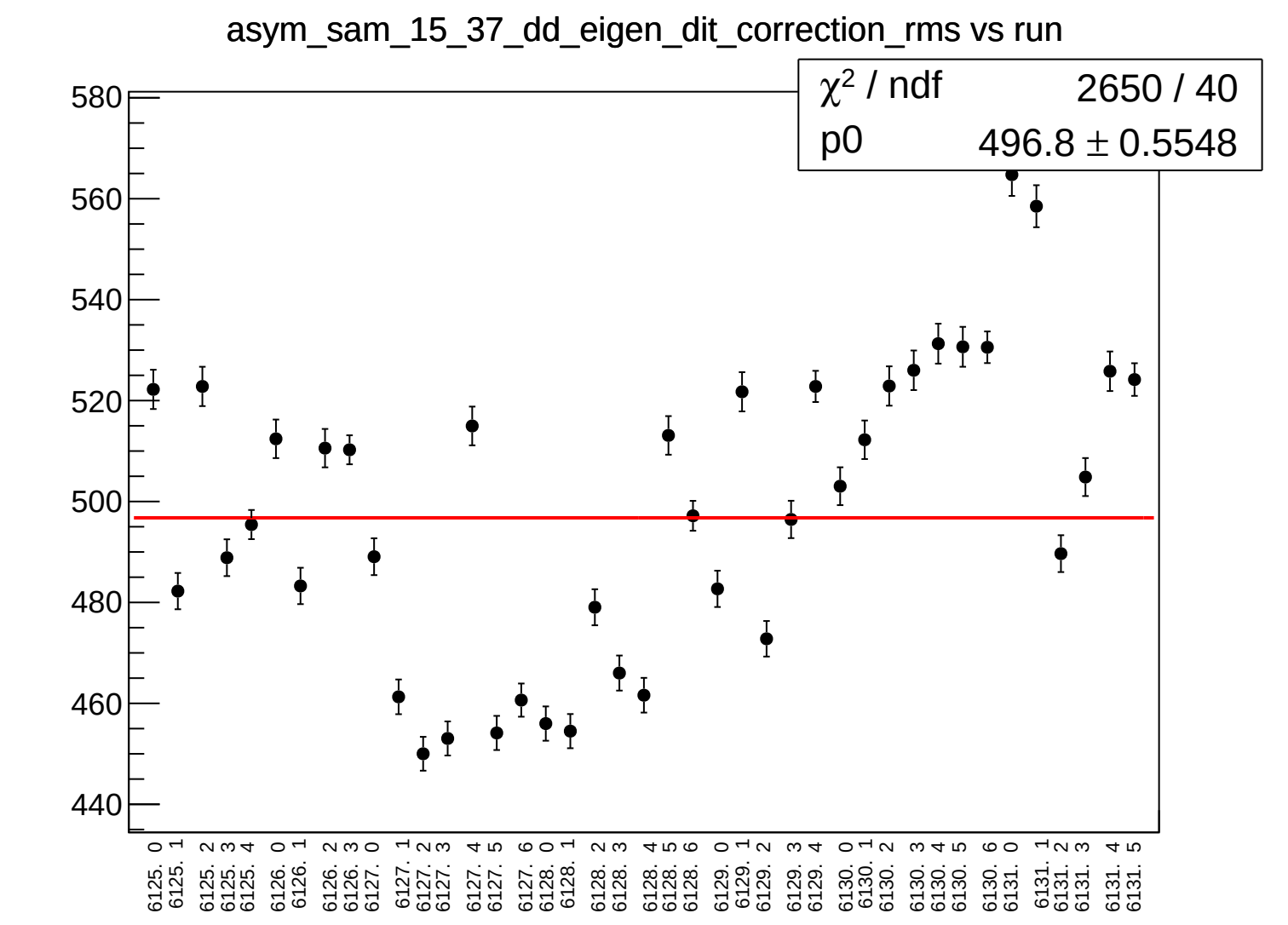
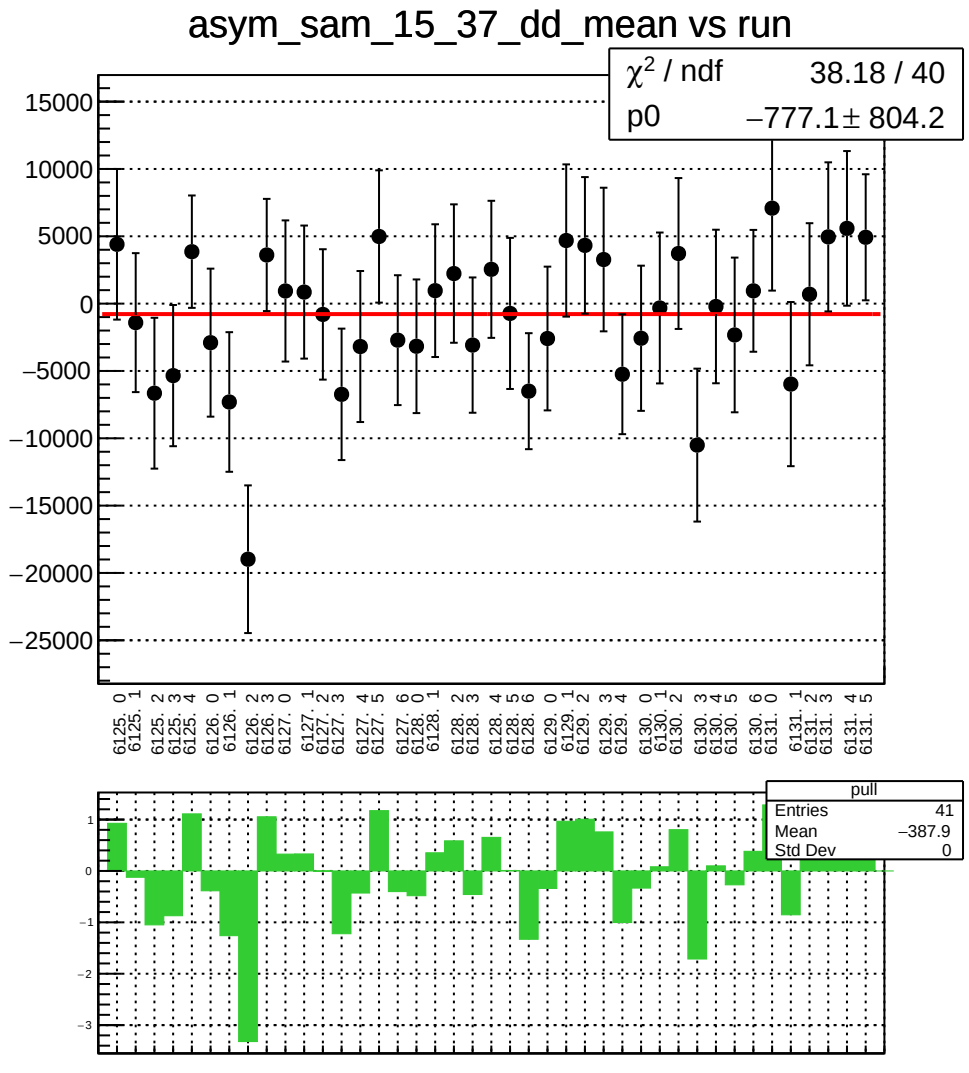
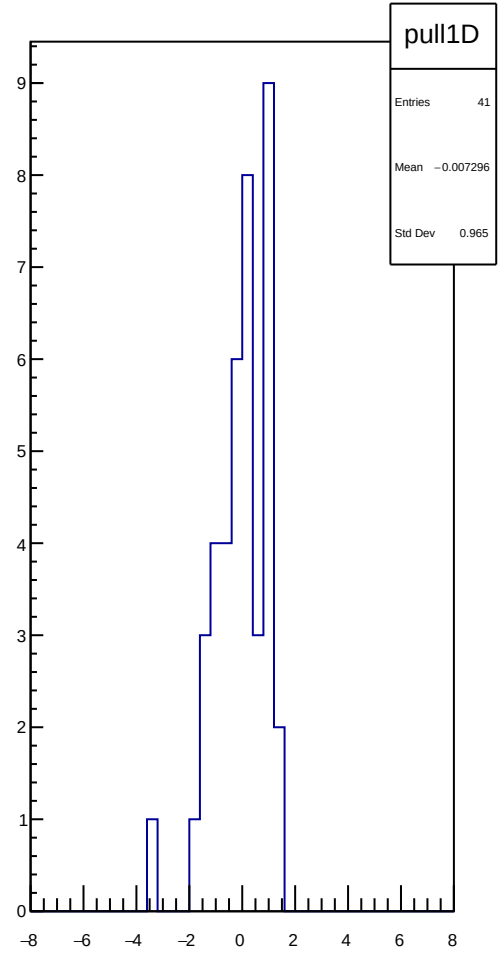
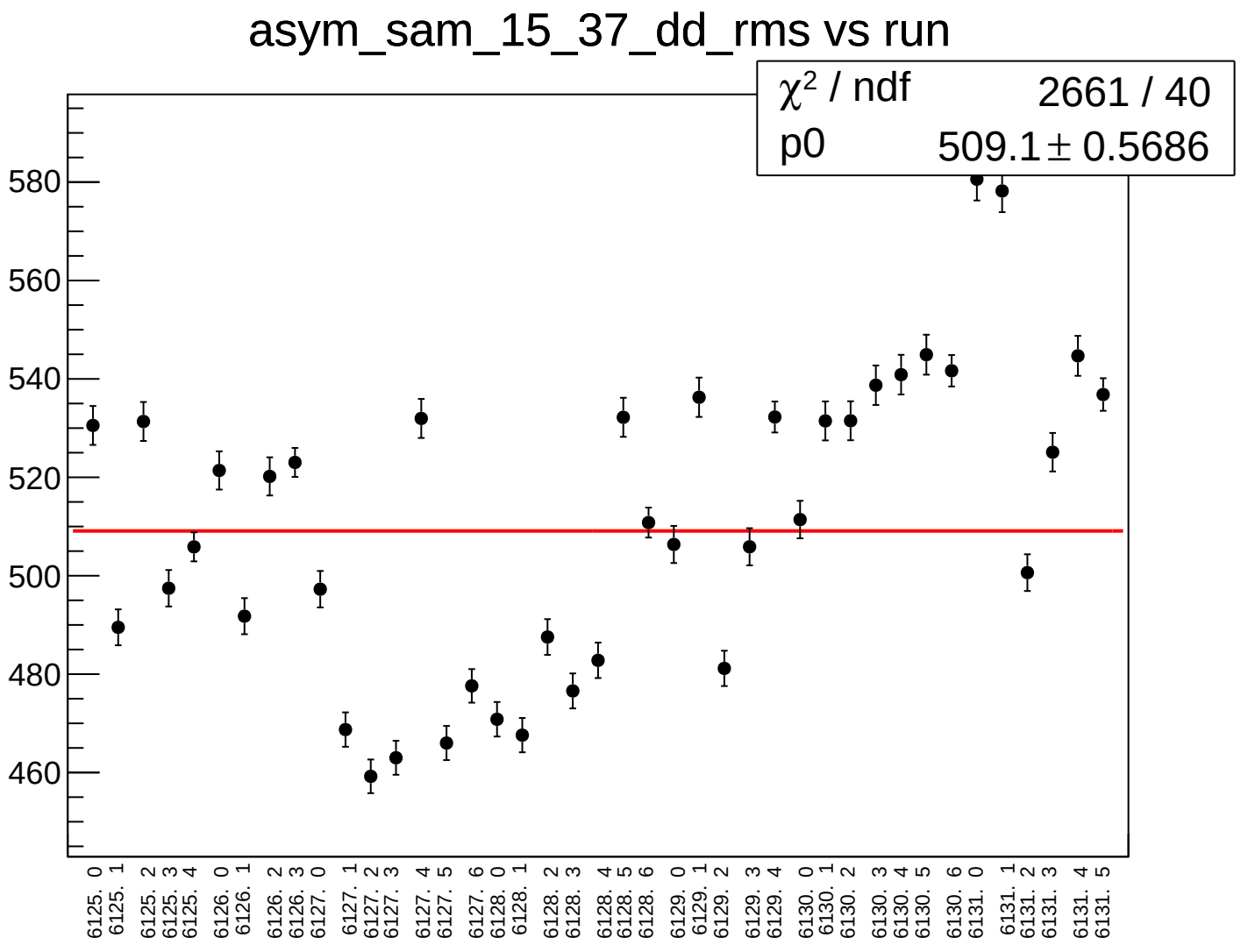
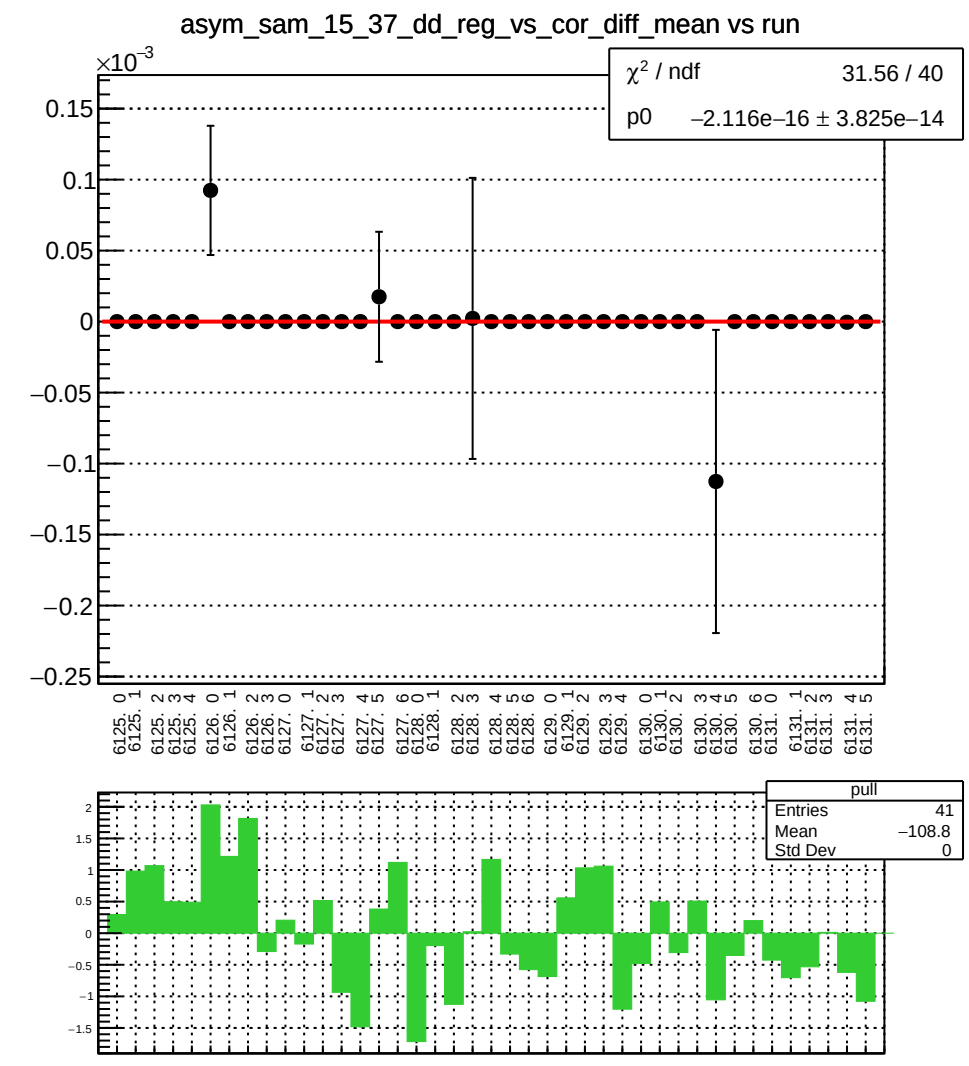
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −293.2
Std Dev 0
3.5
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.009294
Std Dev 0.9532
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

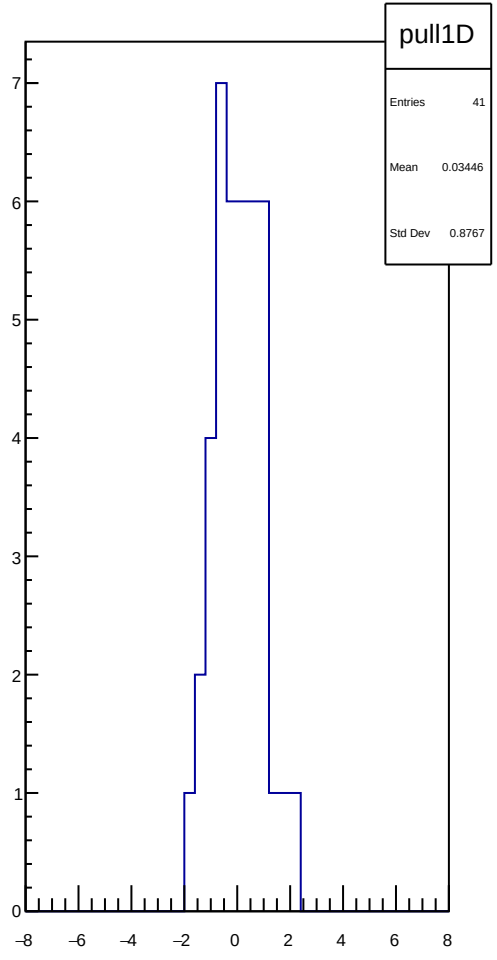

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 2650 / 40
p0 496.8 ± 0.5548
580
560
540
520
500
480
460
440
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

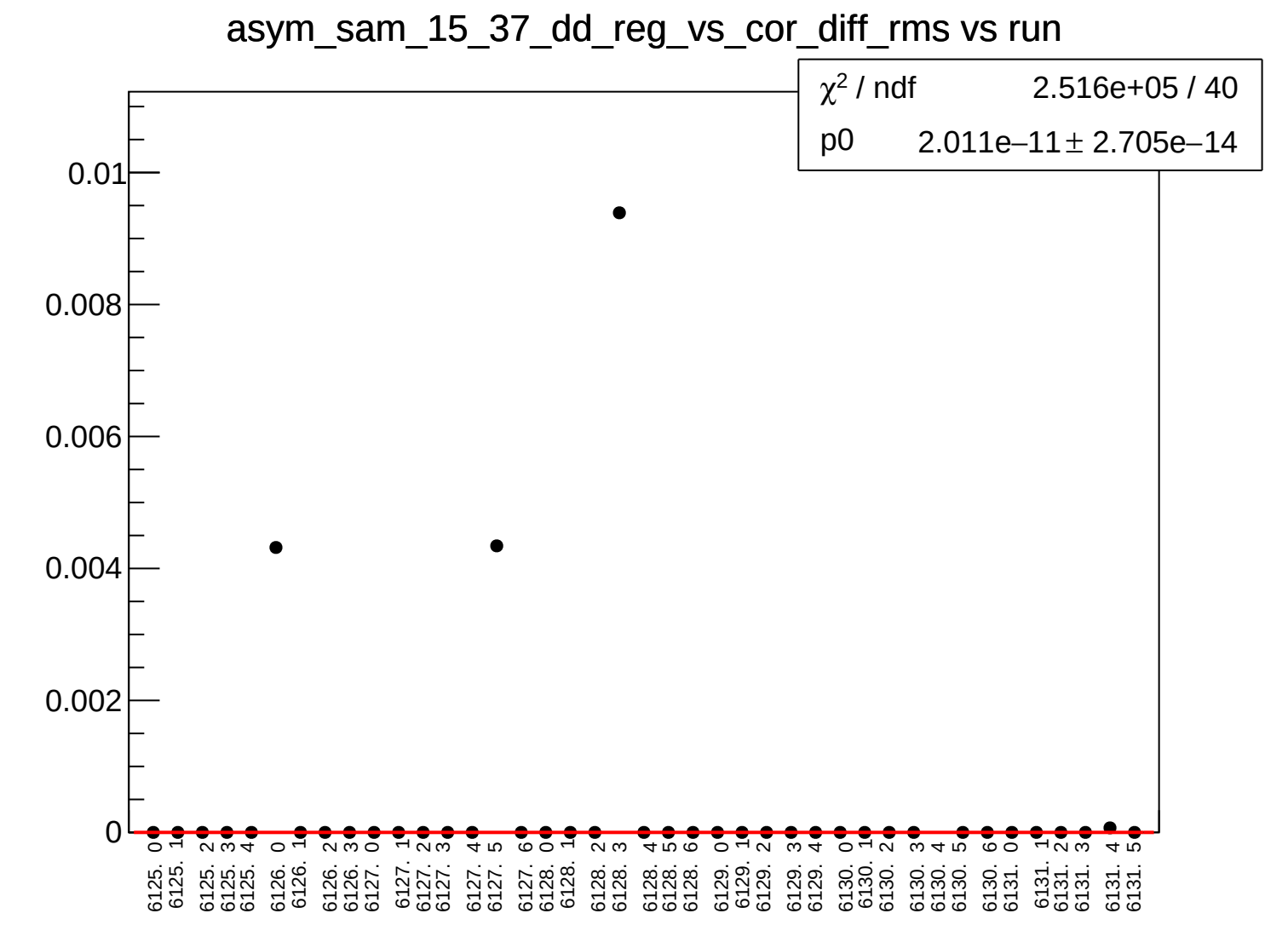

asym_sam_15_37_dd_mean vs run
χ² / ndf 38.18 / 40
p0 −777.1± 804.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −387.9
Std Dev 0
1
0
−1
−2
−3

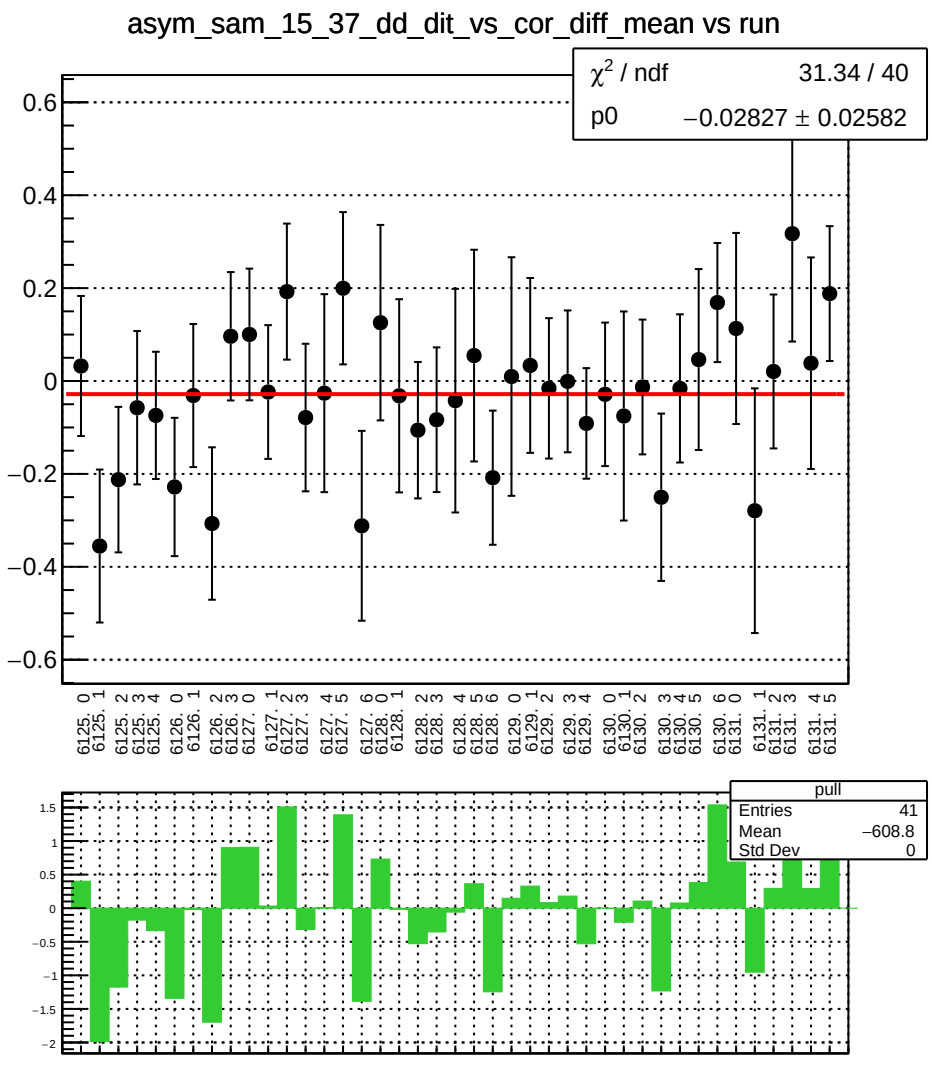

pull1D
Entries 41
Mean −0.007296
Std Dev 0.965
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

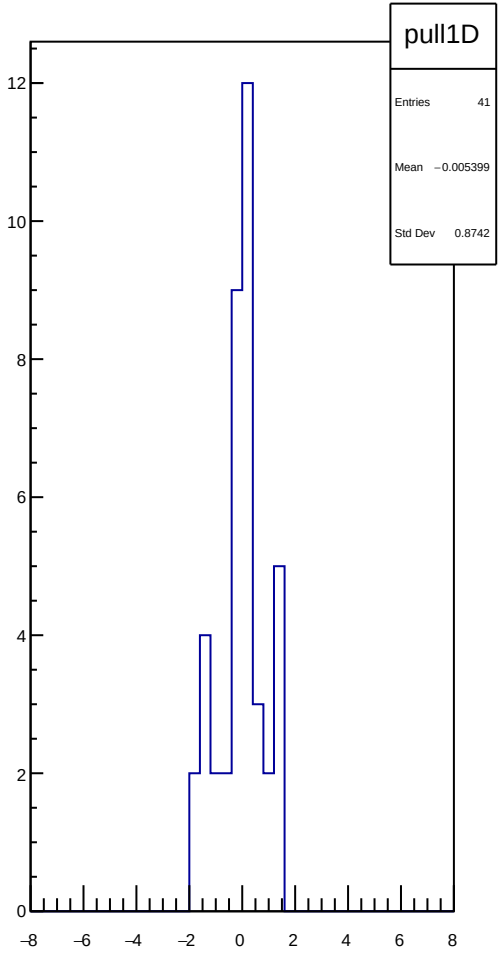

asym_sam_15_37_dd_rms vs run
χ² / ndf 2661 / 40
p0 509.1 ± 0.5686
580
560
540
520
500
480
460
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

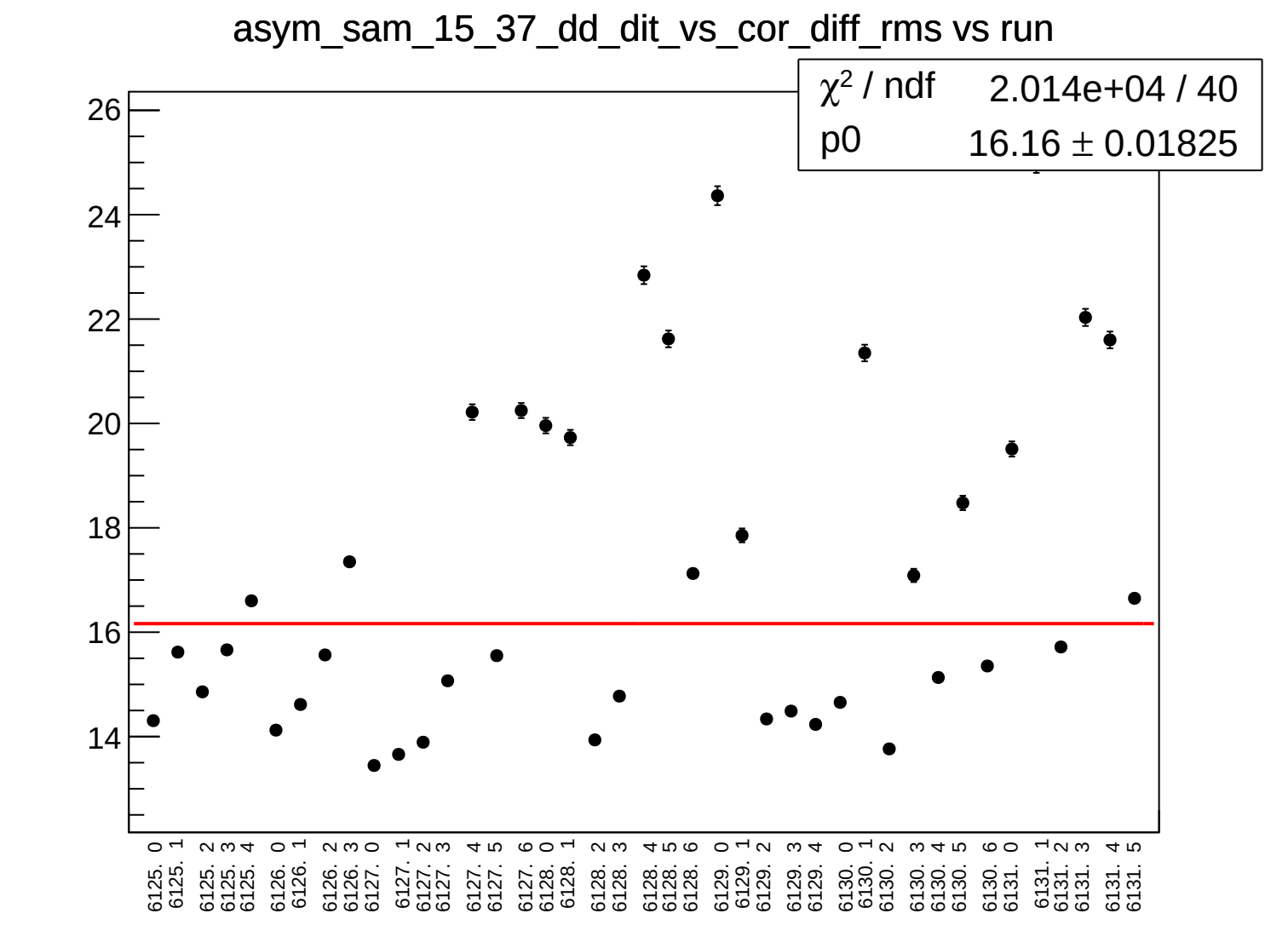

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 31.56 / 40
p0 −2.116e−16 ± 3.825e−14
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −108.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

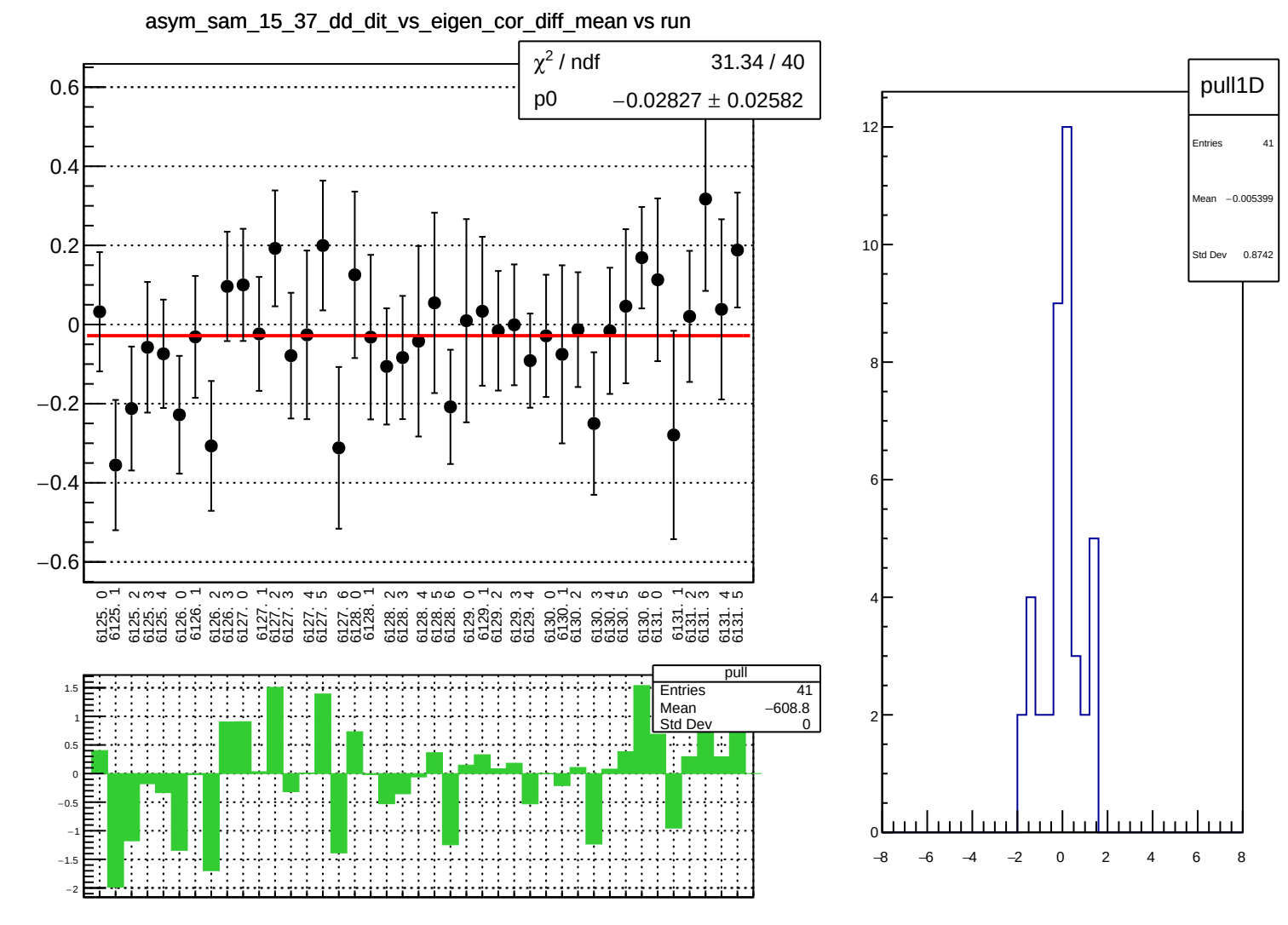

pull1D
Entries 41
Mean 0.03446
Std Dev 0.8767
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

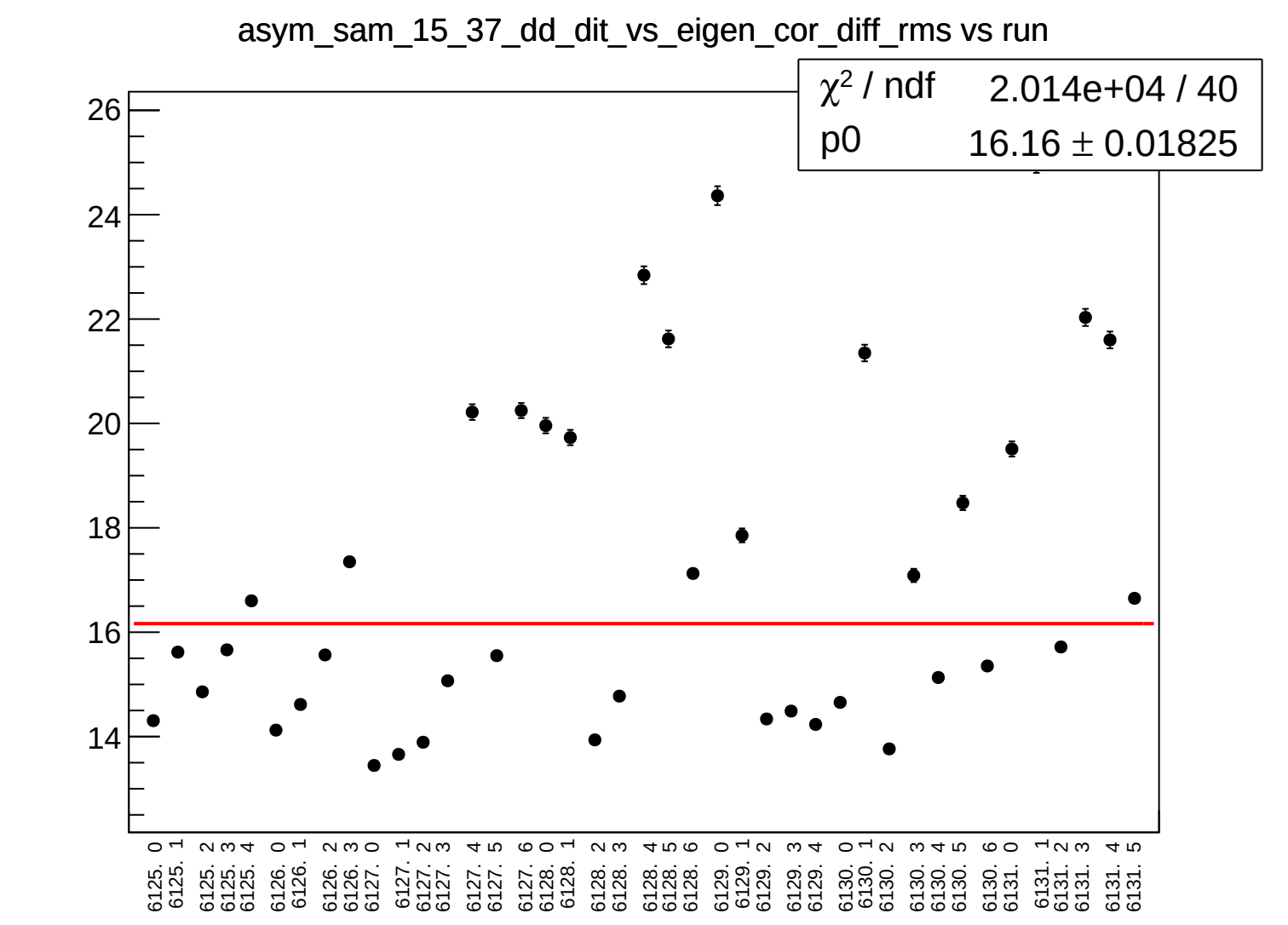

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.516e+05 / 40
p0 2.011e−11 ± 2.705e−14
0.01
0.008
0.006
0.004
0.002
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

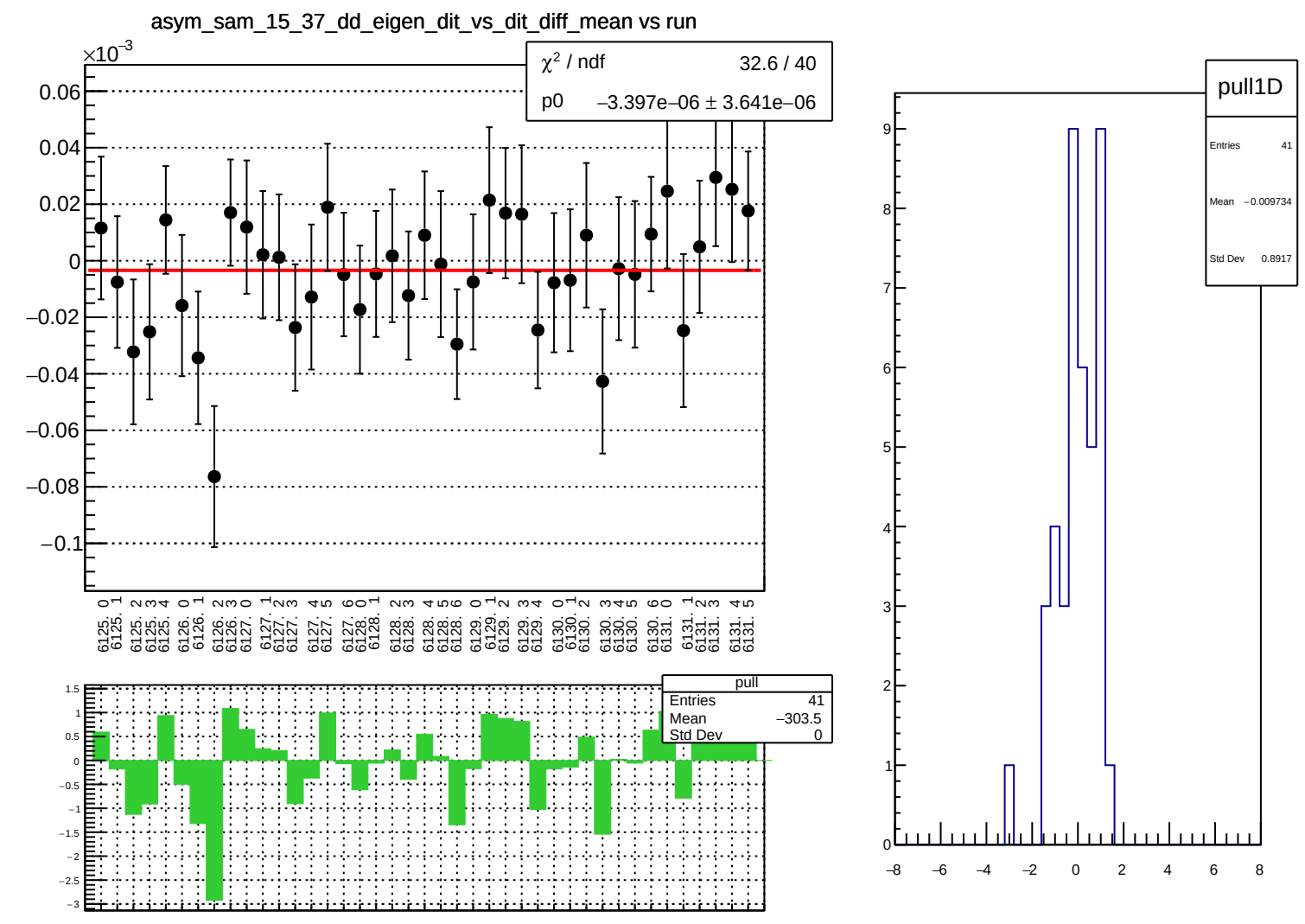

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 31.34 / 40
p0 −0.02827 ± 0.02582
pull
Entries 41
Mean −608.8
Std Dev 0

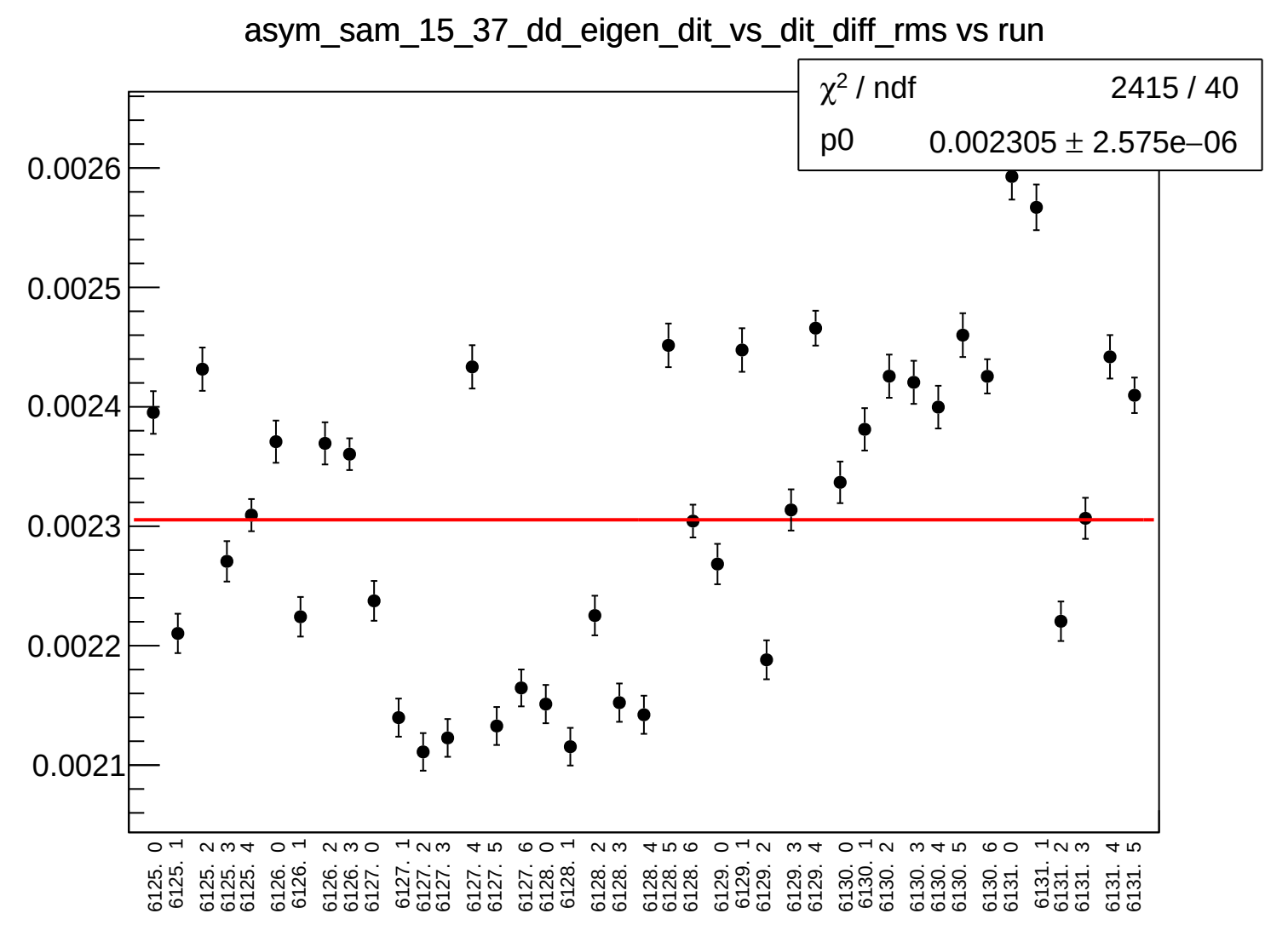

pull1D
Entries 41
Mean −0.005399
Std Dev 0.8742

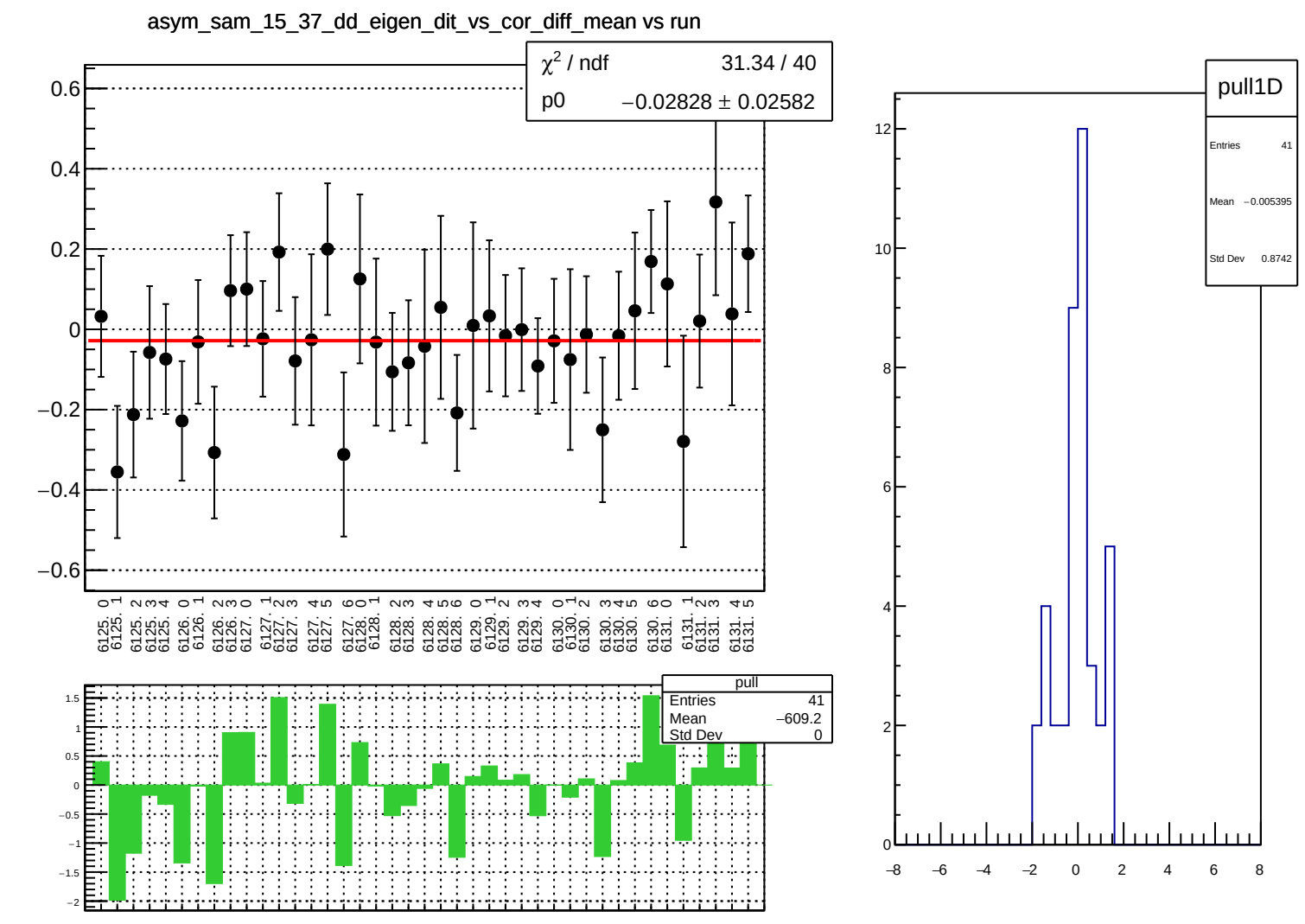

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.014e+04 / 40
p0 16.16 ± 0.01825
26
24
22
20
18
16
14
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

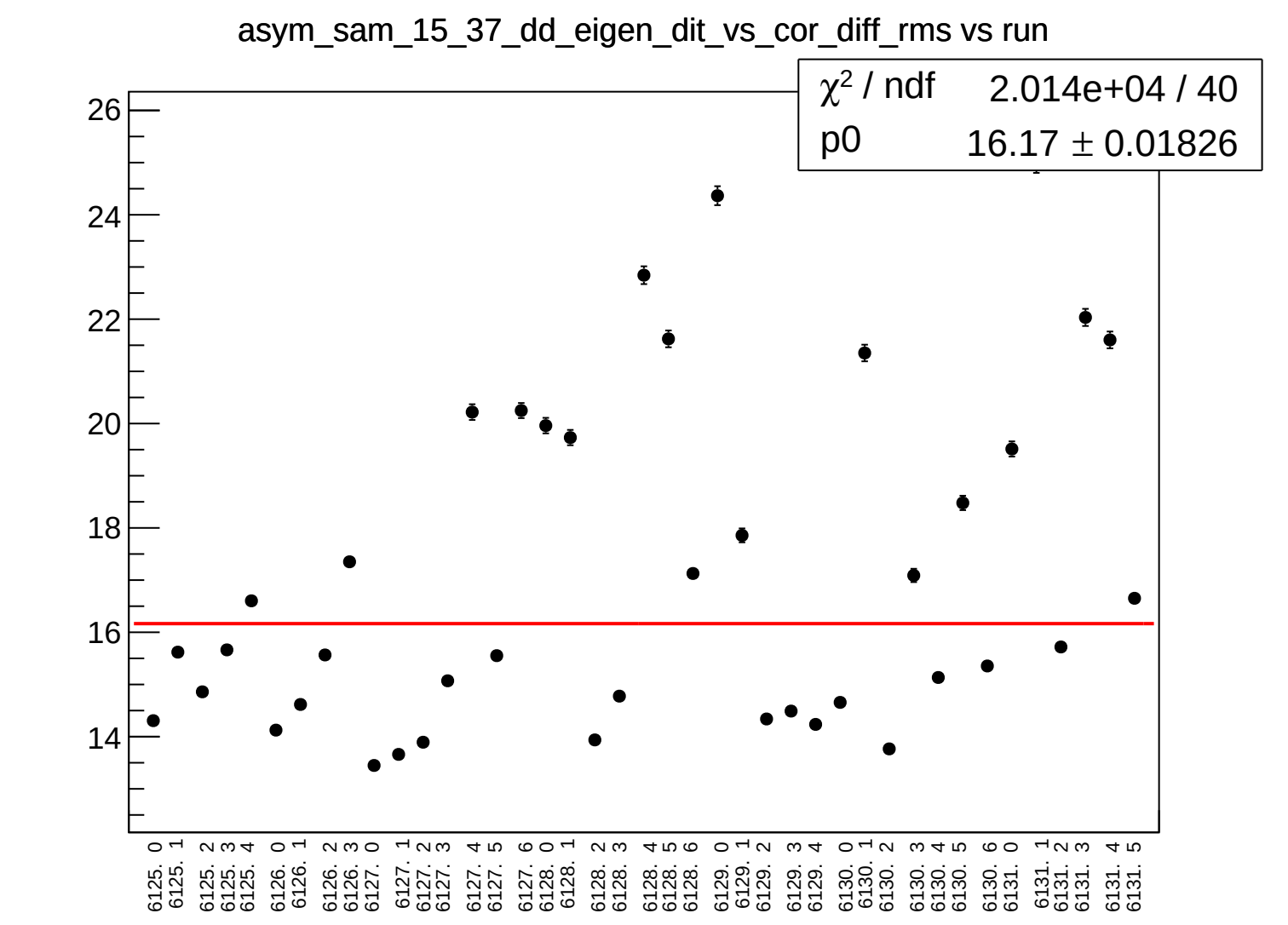

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.34 / 40
p0 −0.02827 ± 0.02582
pull
Entries 41
Mean −608.8
Std Dev 0
pull1D
Entries 41
Mean −0.005399
Std Dev 0.8742

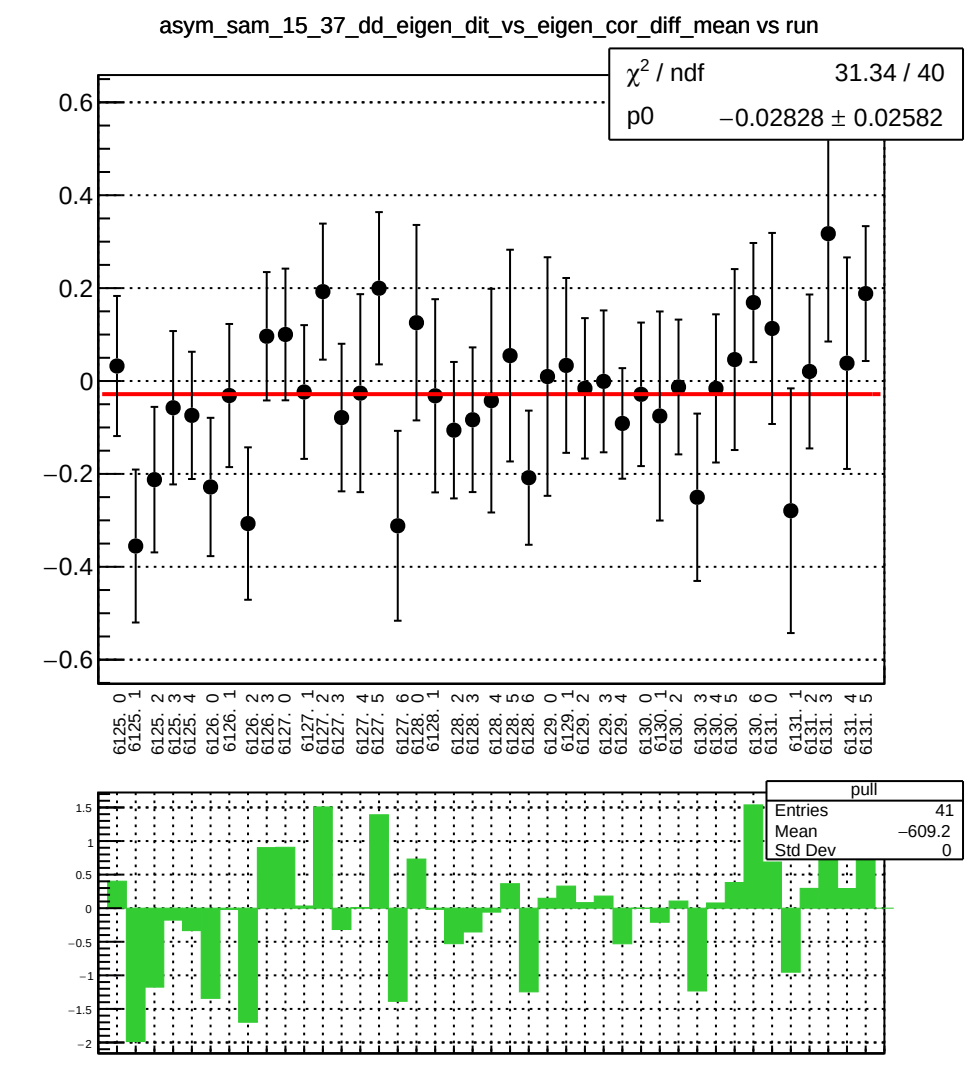

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.014e+04 / 40
p0 16.16 ± 0.01825
26
24
22
20
18
16
14
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

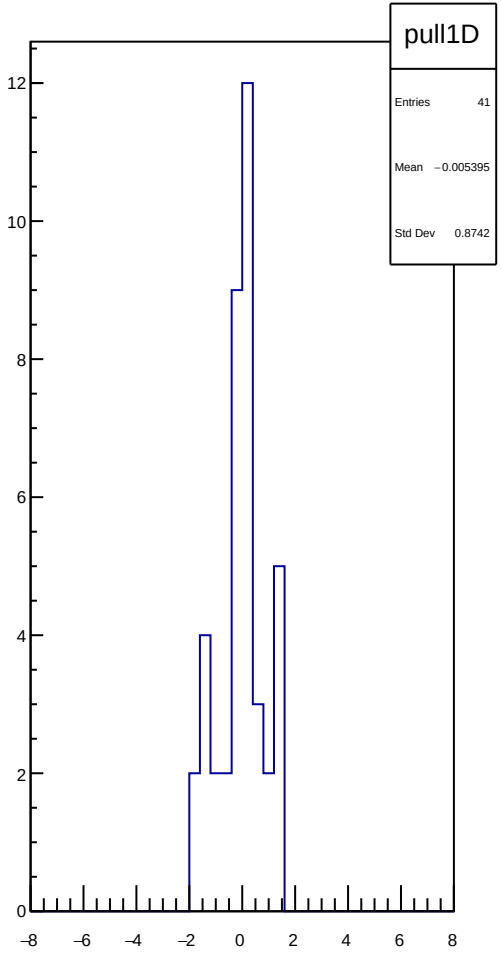

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 32.6 / 40
p0 −3.397e−06 ± 3.641e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −303.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 41
Mean −0.009734
Std Dev 0.8917
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

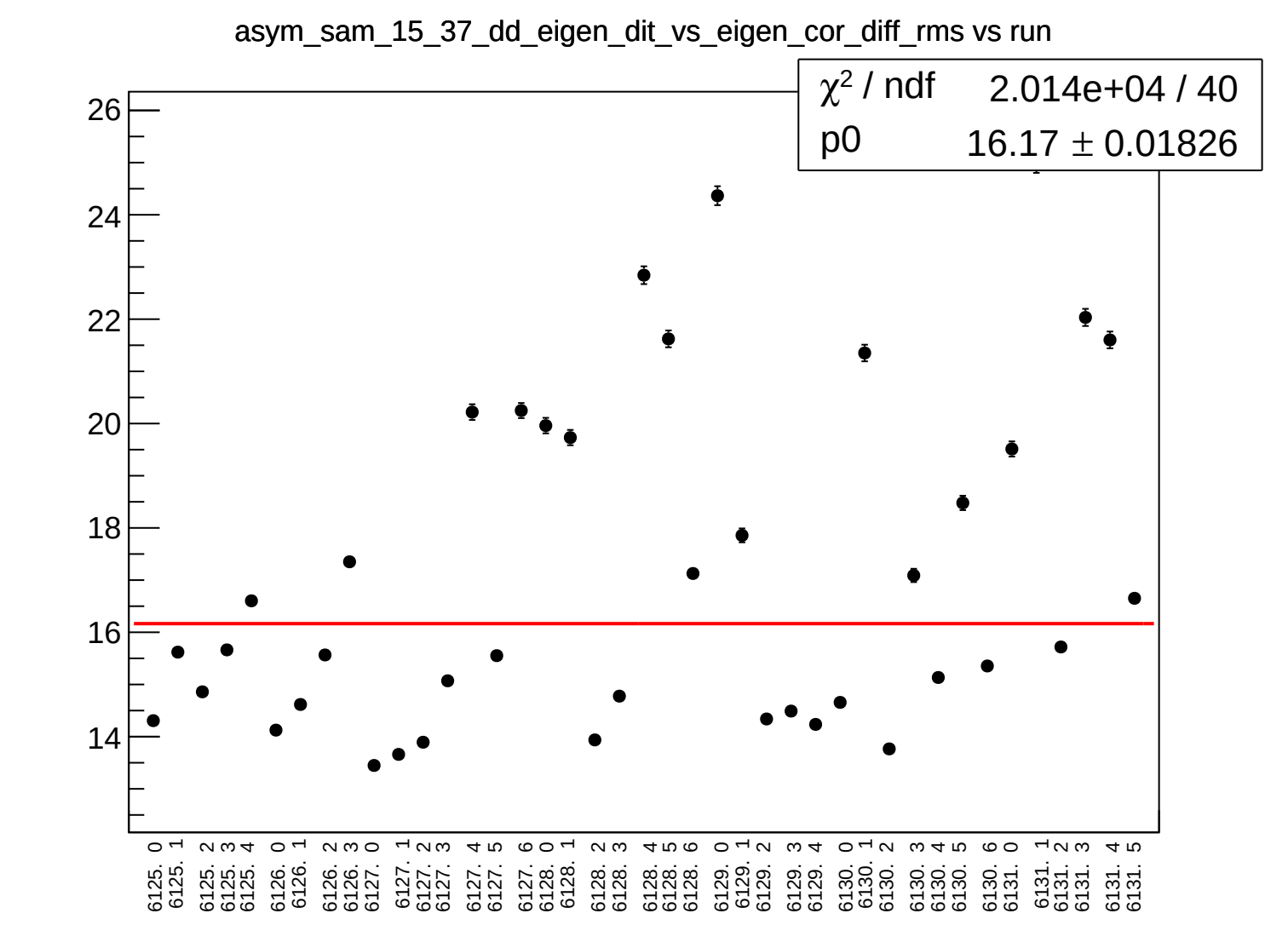

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2415 / 40
p0 0.002305 ± 2.575e−06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

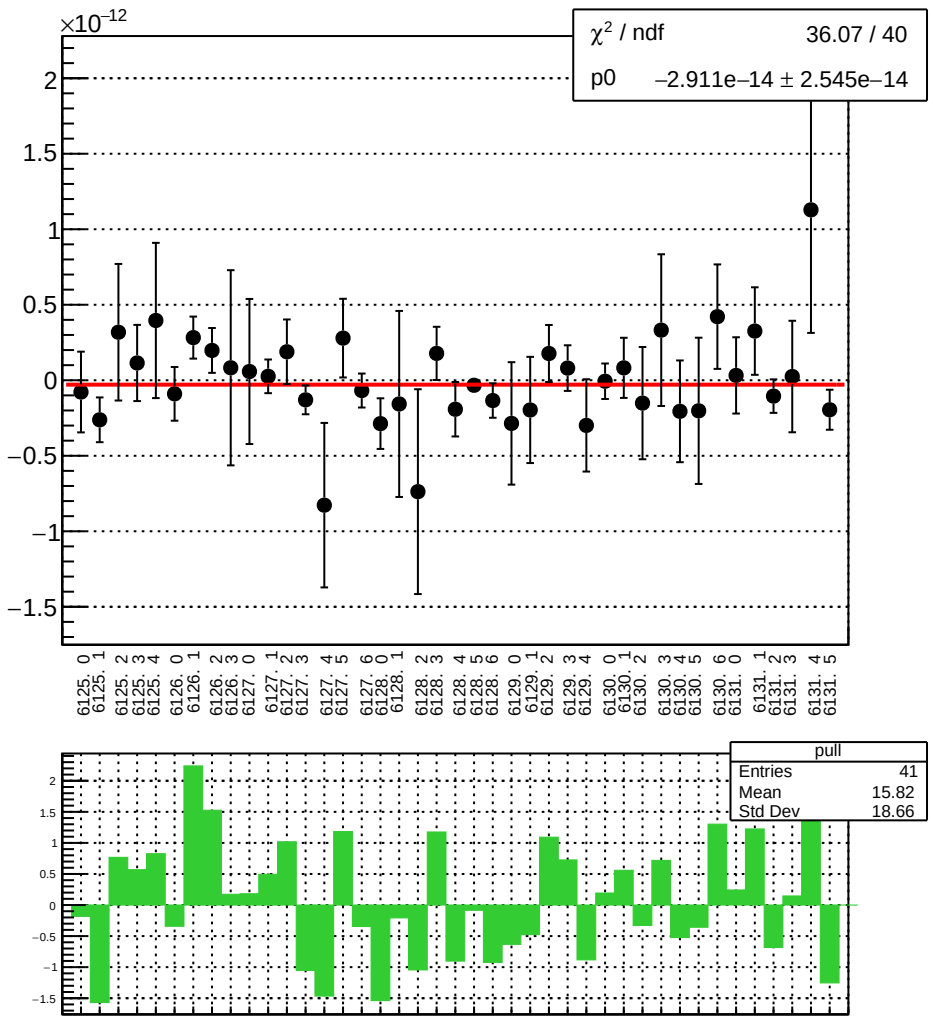

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 31.34 / 40
p0 −0.02828 ± 0.02582
pull
Entries 41
Mean −609.2
Std Dev 0
pull1D
Entries 41
Mean −0.005395
Std Dev 0.8742

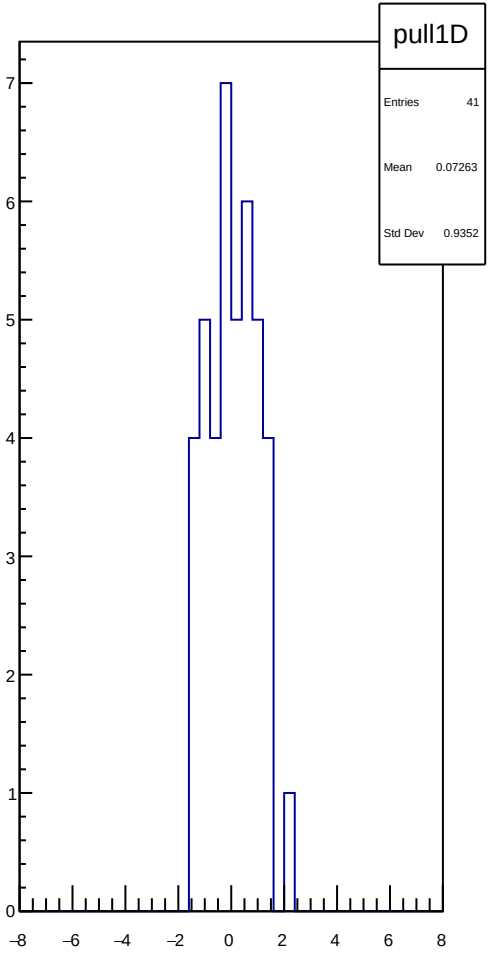

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.014e+04 / 40
p0 16.17 ± 0.01826
26
24
22
20
18
16
14
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

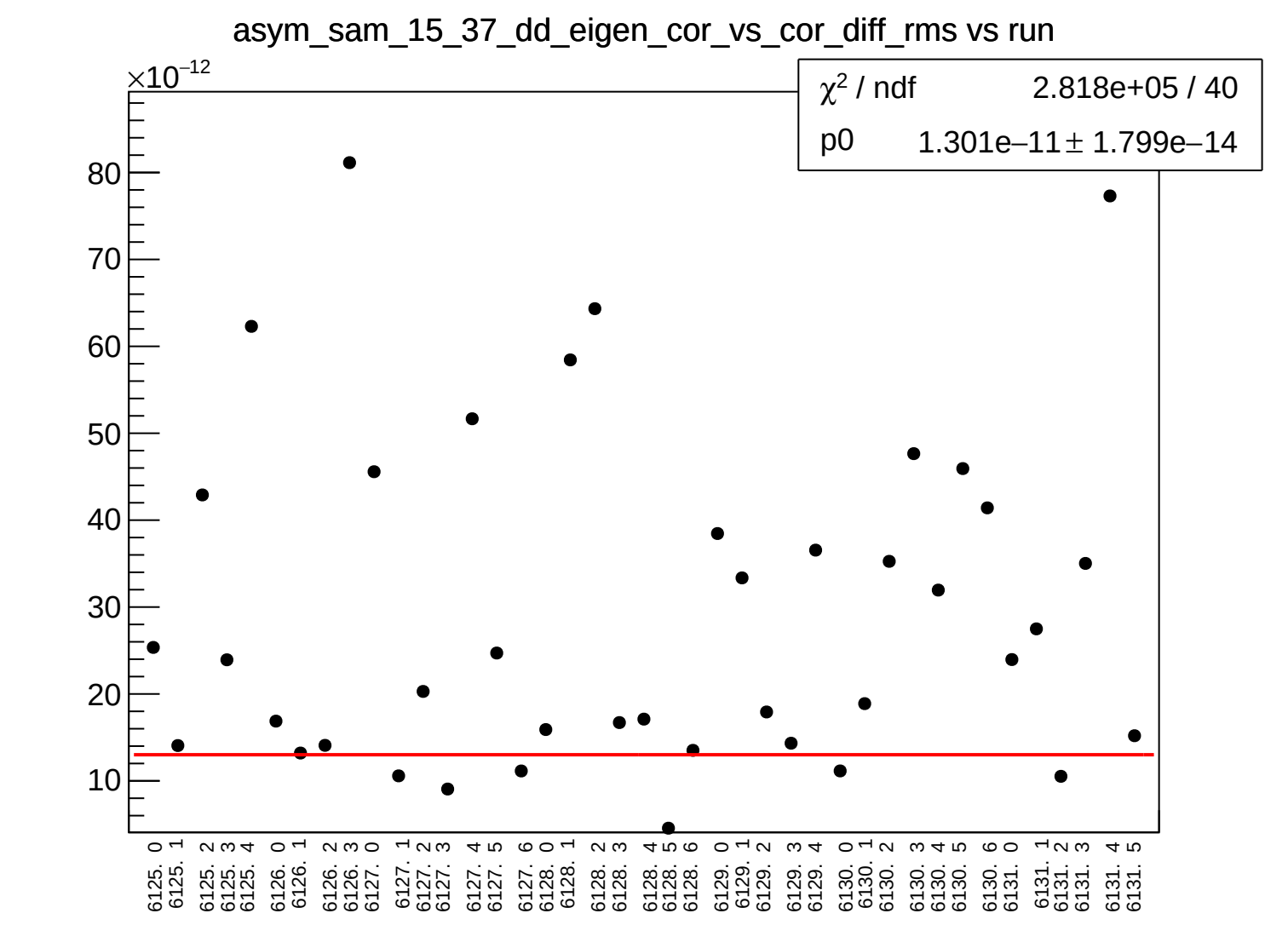

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.34 / 40
p0 −0.02828 ± 0.02582
pull
Entries 41
Mean −609.2
Std Dev 0

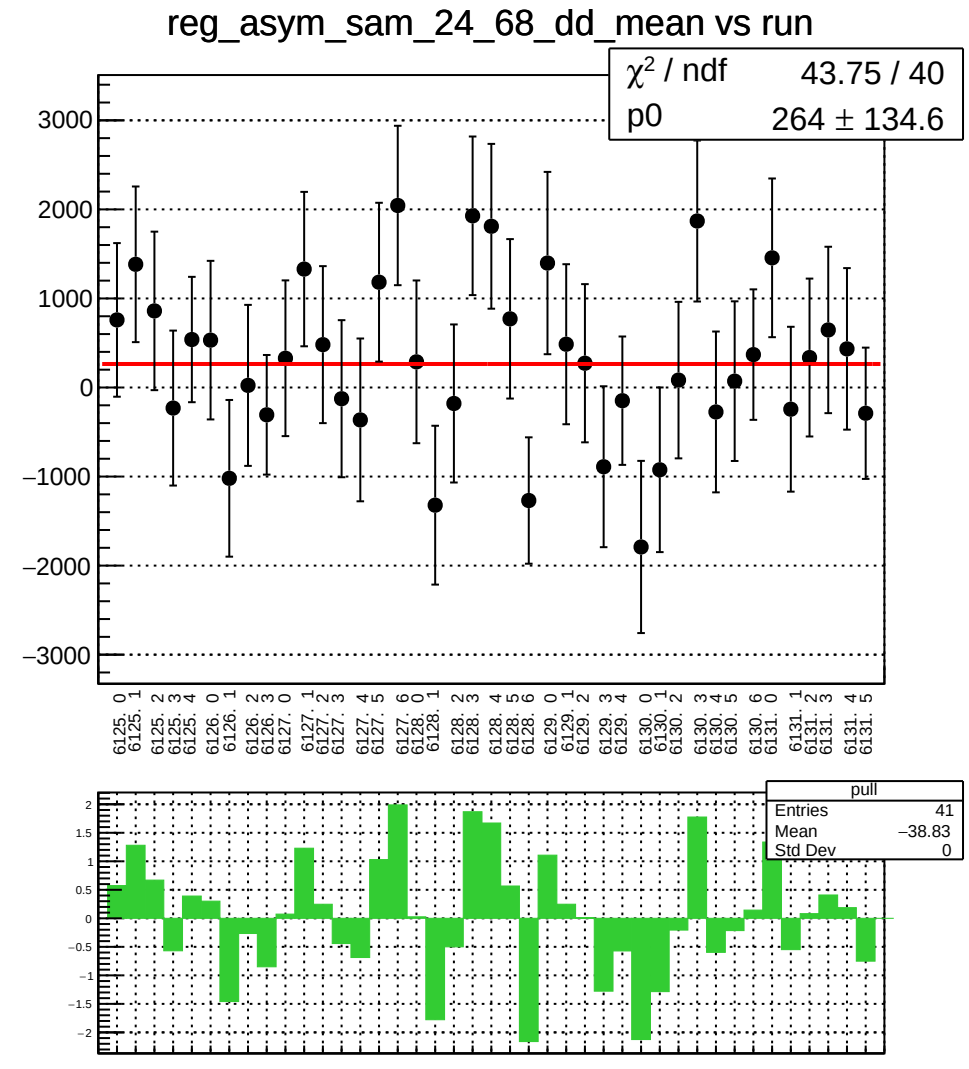

pull1D
Entries 41
Mean −0.005395
Std Dev 0.8742

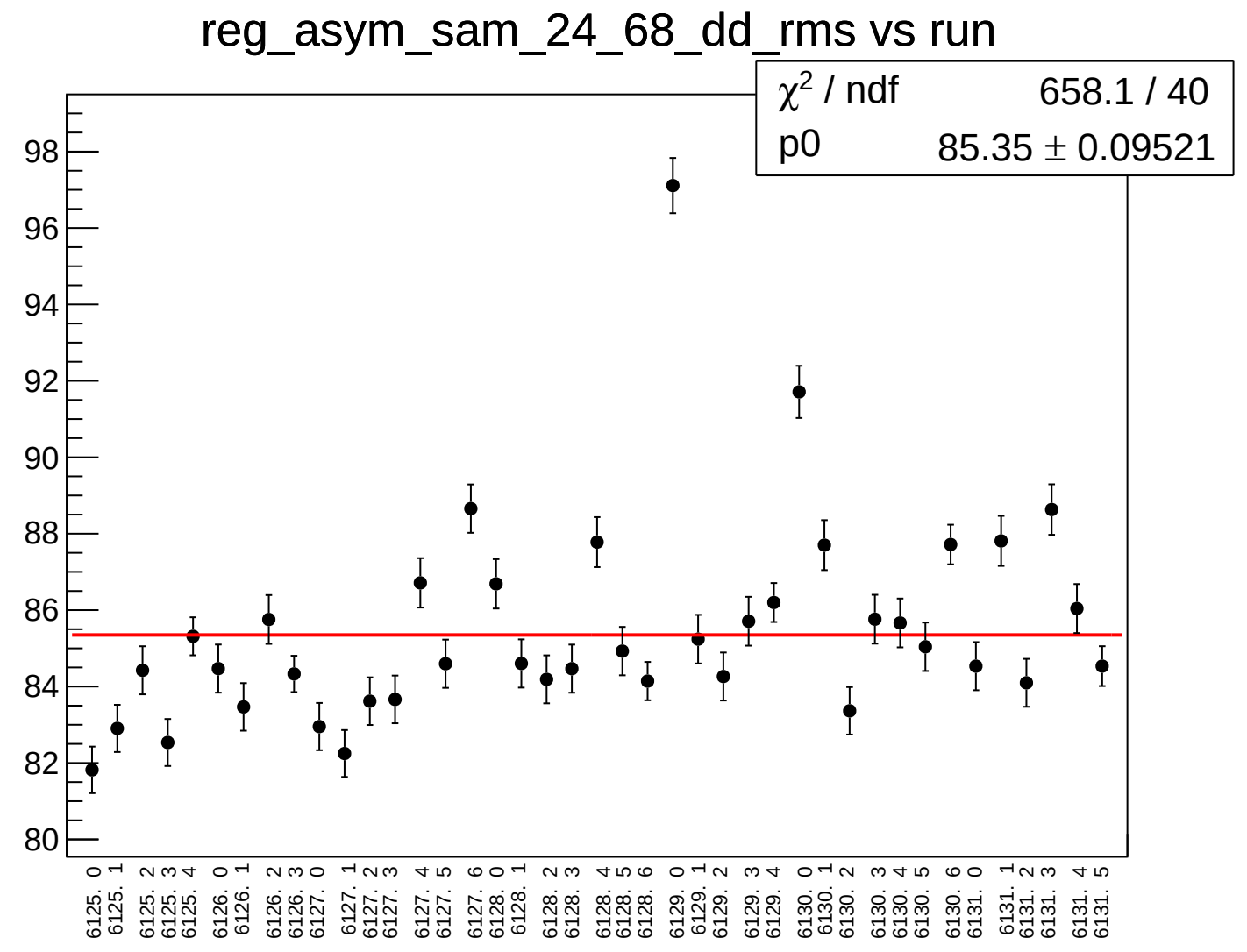

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.014e+04 / 40
p0 16.17 ± 0.01826
26
24
22
20
18
16
14
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

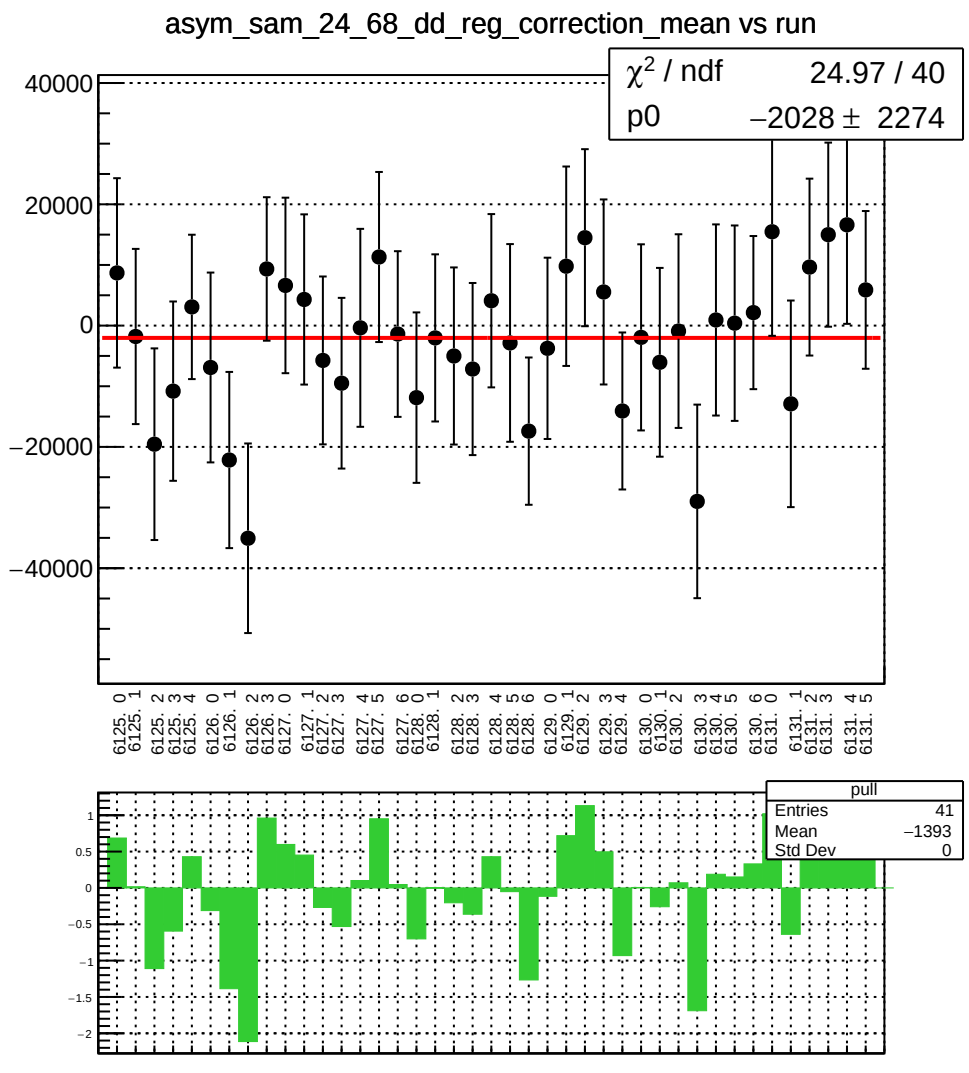

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 36.07 / 40
p0 −2.911e−14 ± 2.545e−14
pull
Entries 41
Mean 15.82
Std Dev 18.66

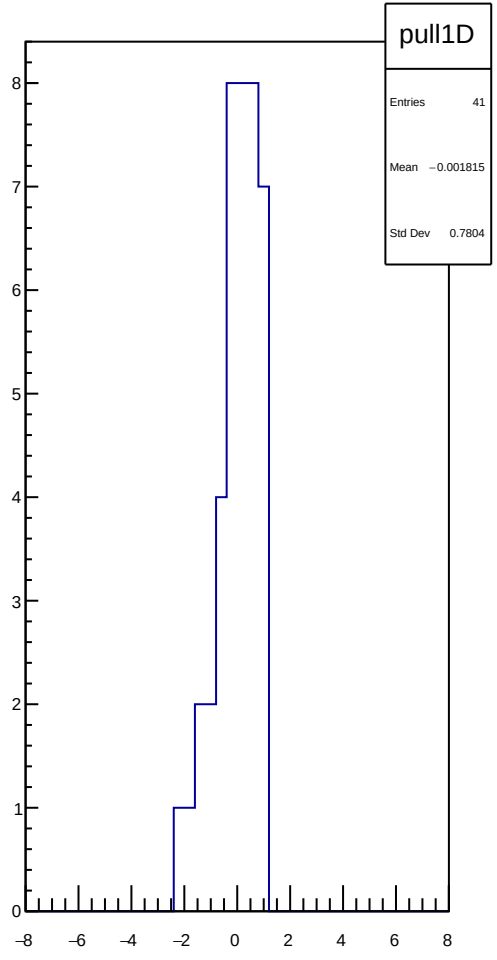

pull1D
Entries 41
Mean 0.07263
Std Dev 0.9352

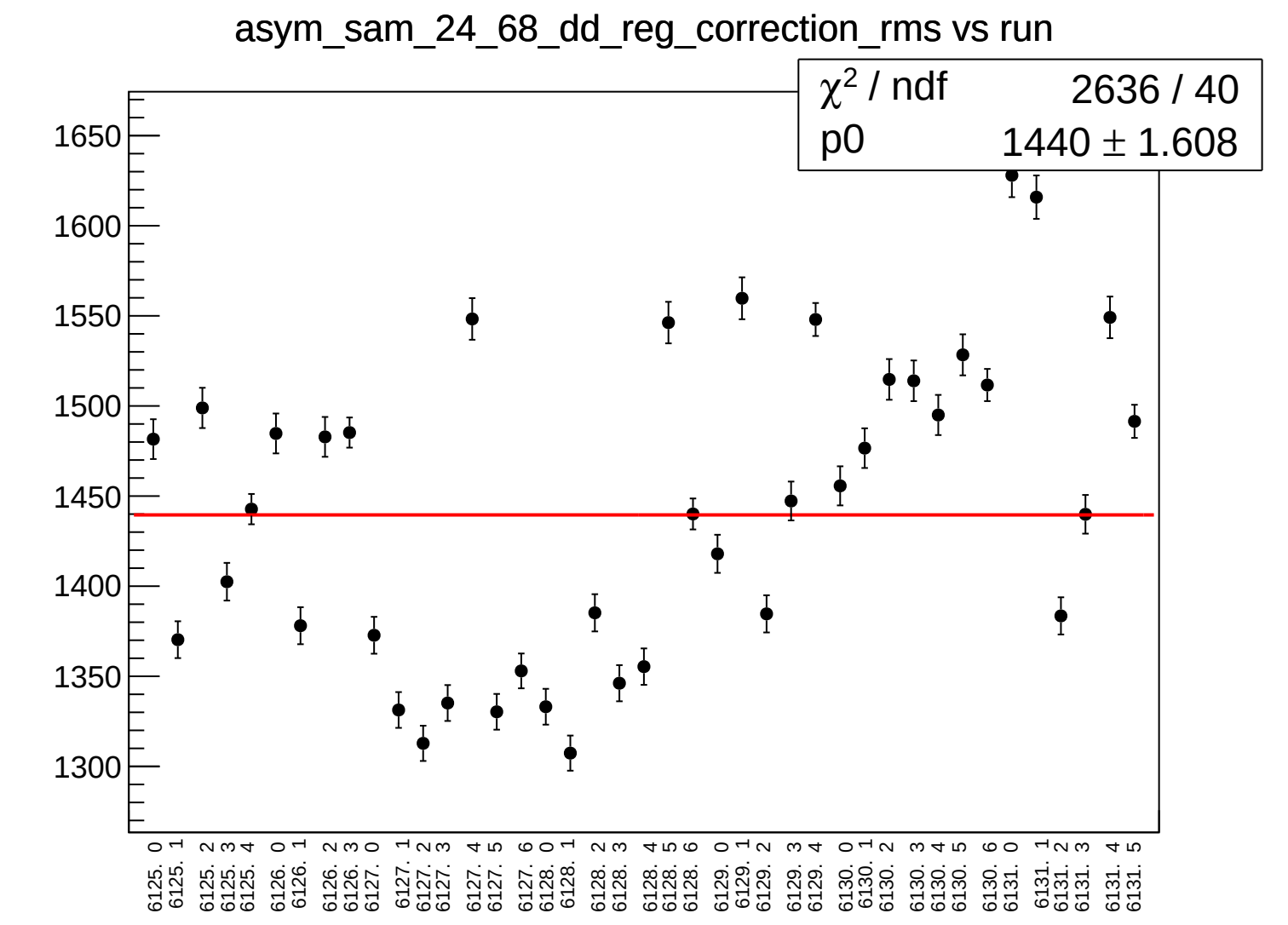

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.818e+05 / 40
p0 1.301e−11 ± 1.799e−14
80
70
60
50
40
30
20
10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

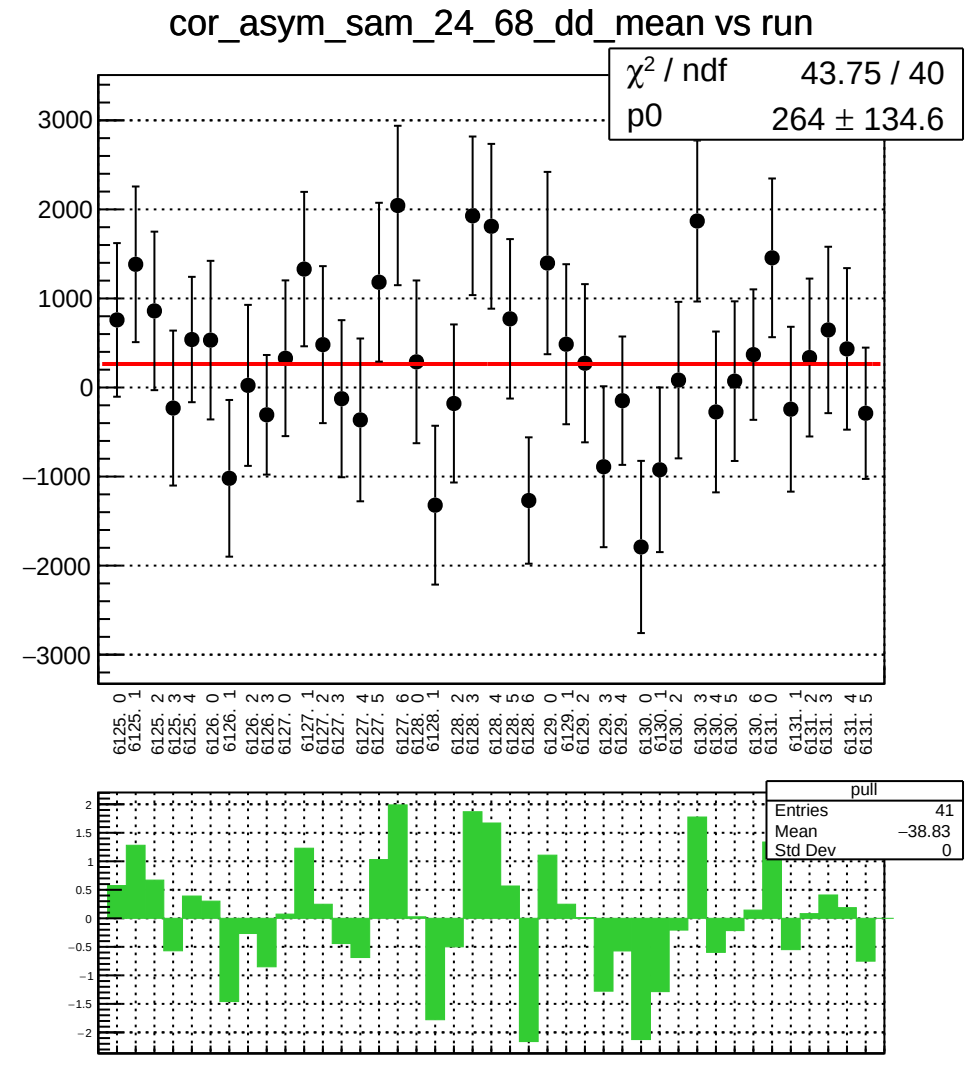

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 43.75 / 40
p0 264 ± 134.6
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −38.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.02266
Std Dev 1.033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

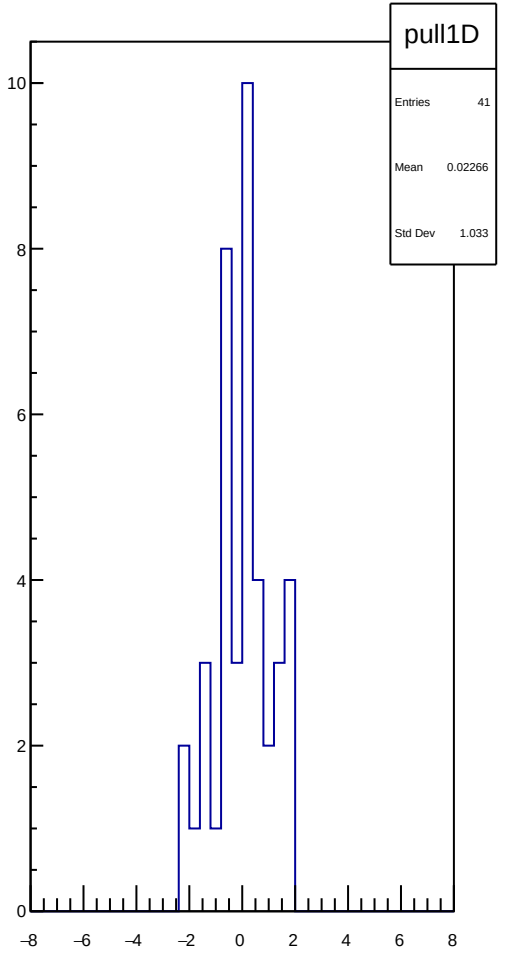

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 658.1 / 40
p0 85.35 ± 0.09521
98
96
94
92
90
88
86
84
82
80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

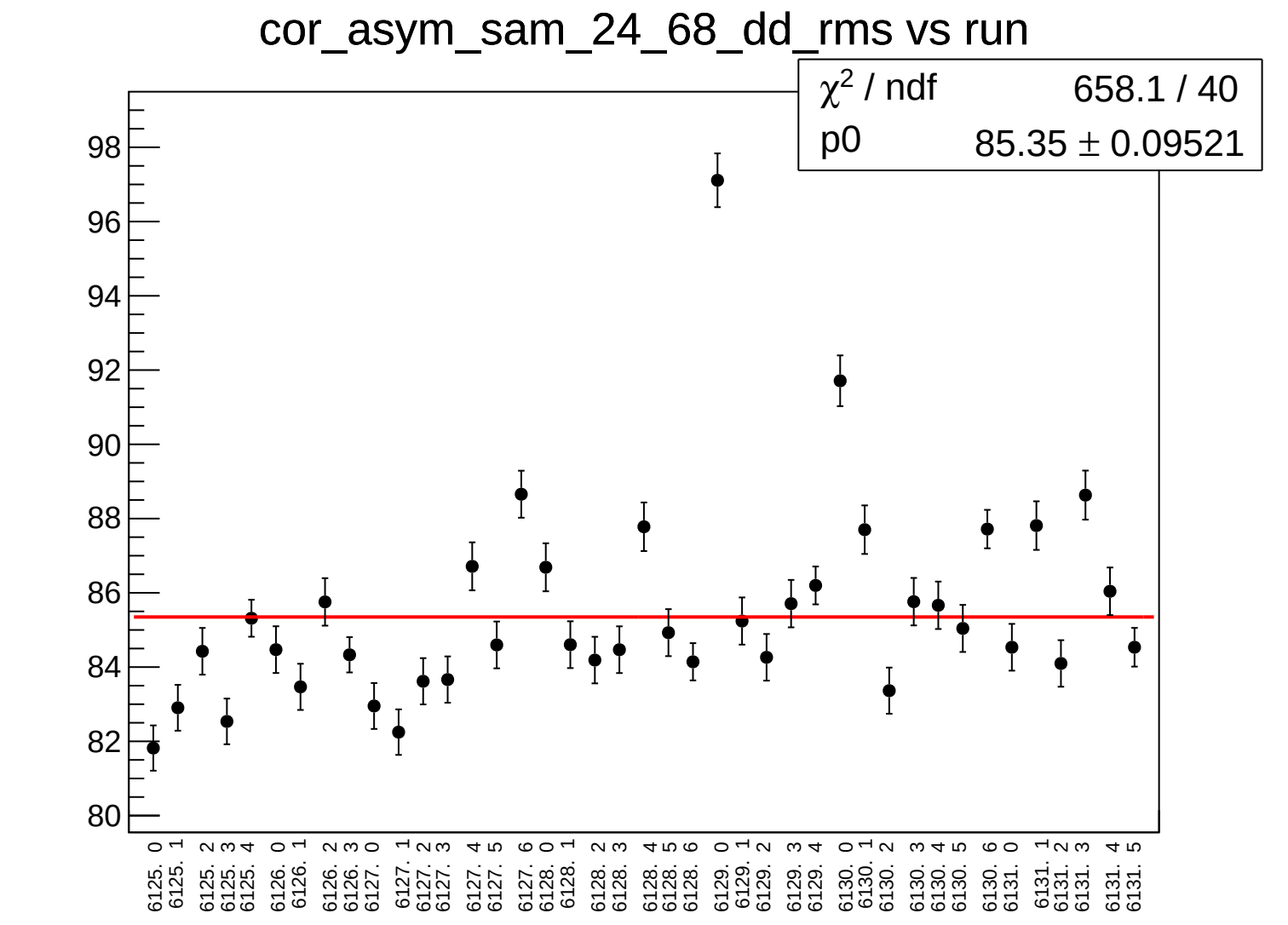

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 24.97 / 40
p0 −2028 ± 2274
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1393
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

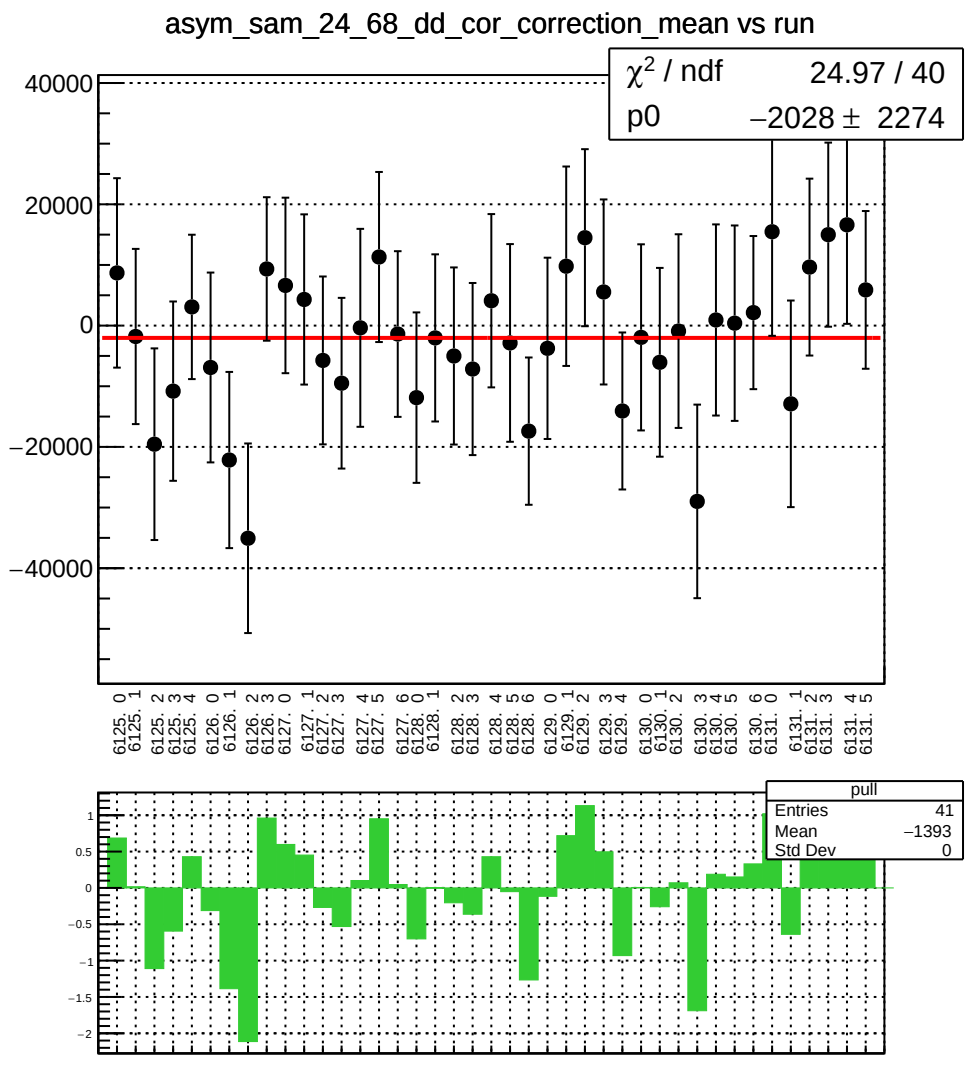

pull1D
Entries 41
Mean −0.001815
Std Dev 0.7804
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

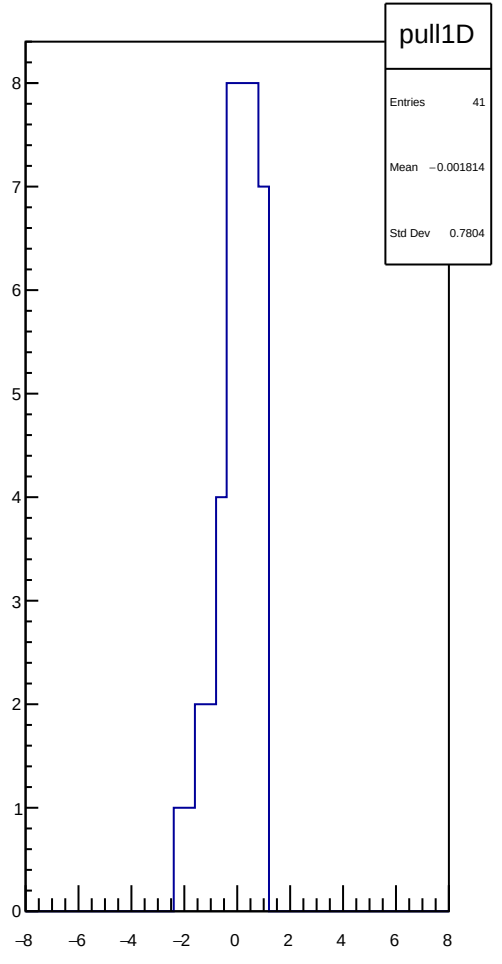

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 2636 / 40
p0 1440 ± 1.608
1650
1600
1550
1500
1450
1400
1350
1300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

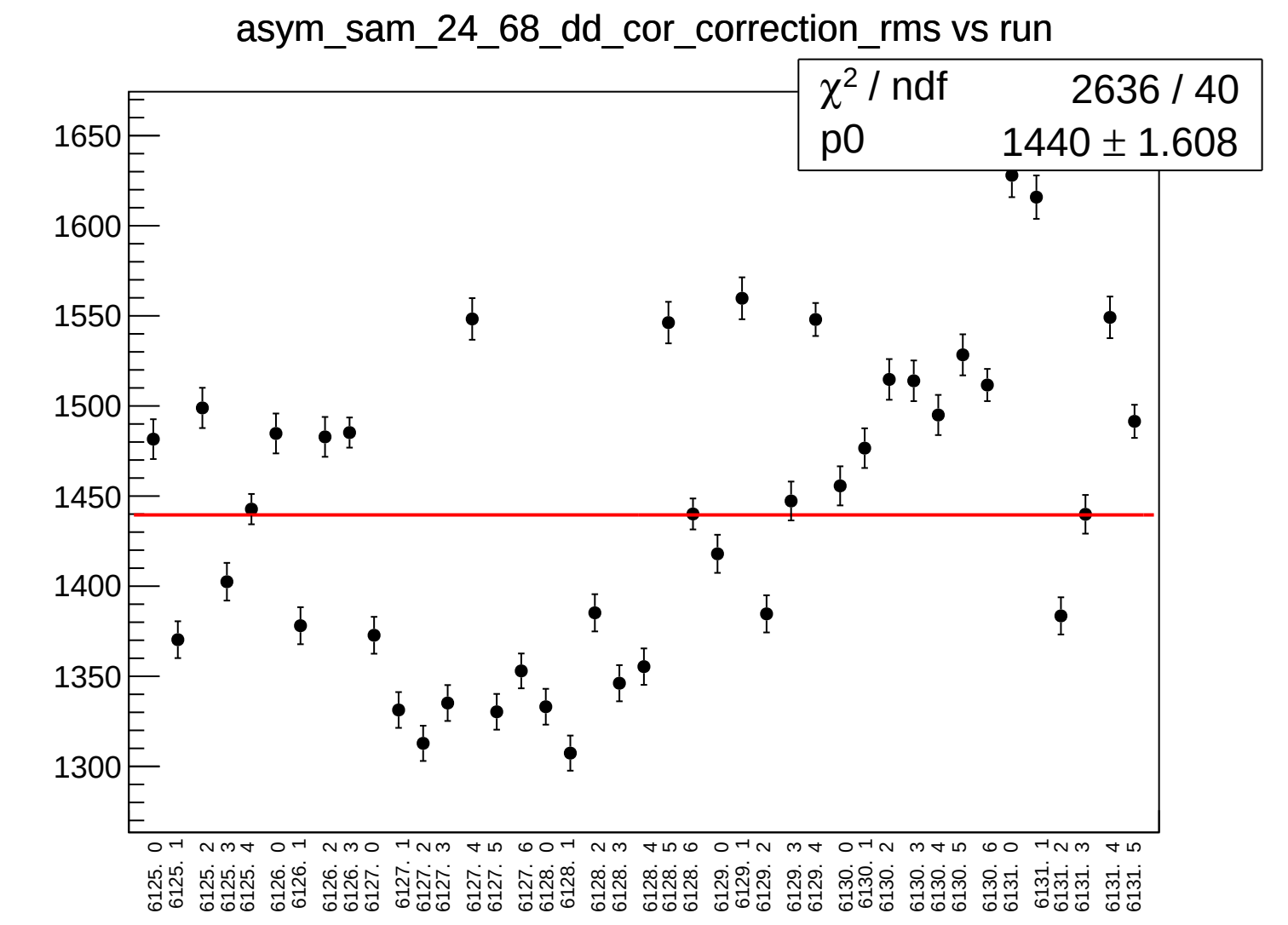

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 43.75 / 40
p0 264 ± 134.6
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −38.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

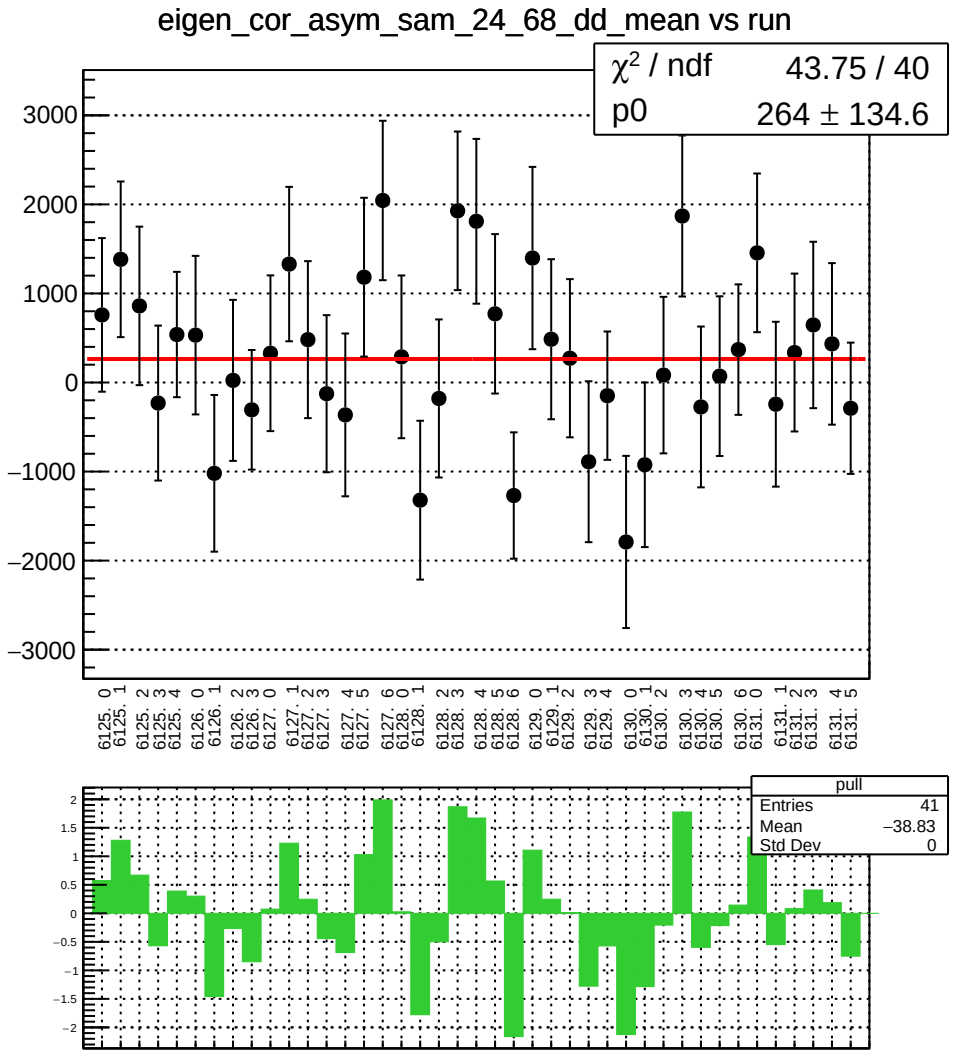

pull1D
Entries 41
Mean 0.02266
Std Dev 1.033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

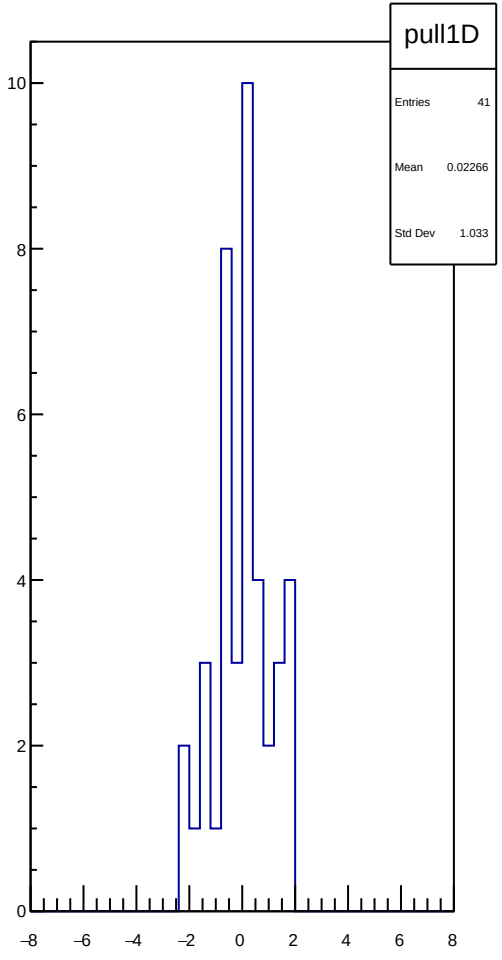

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 658.1 / 40
p0 85.35 ± 0.09521
98
96
94
92
90
88
86
84
82
80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

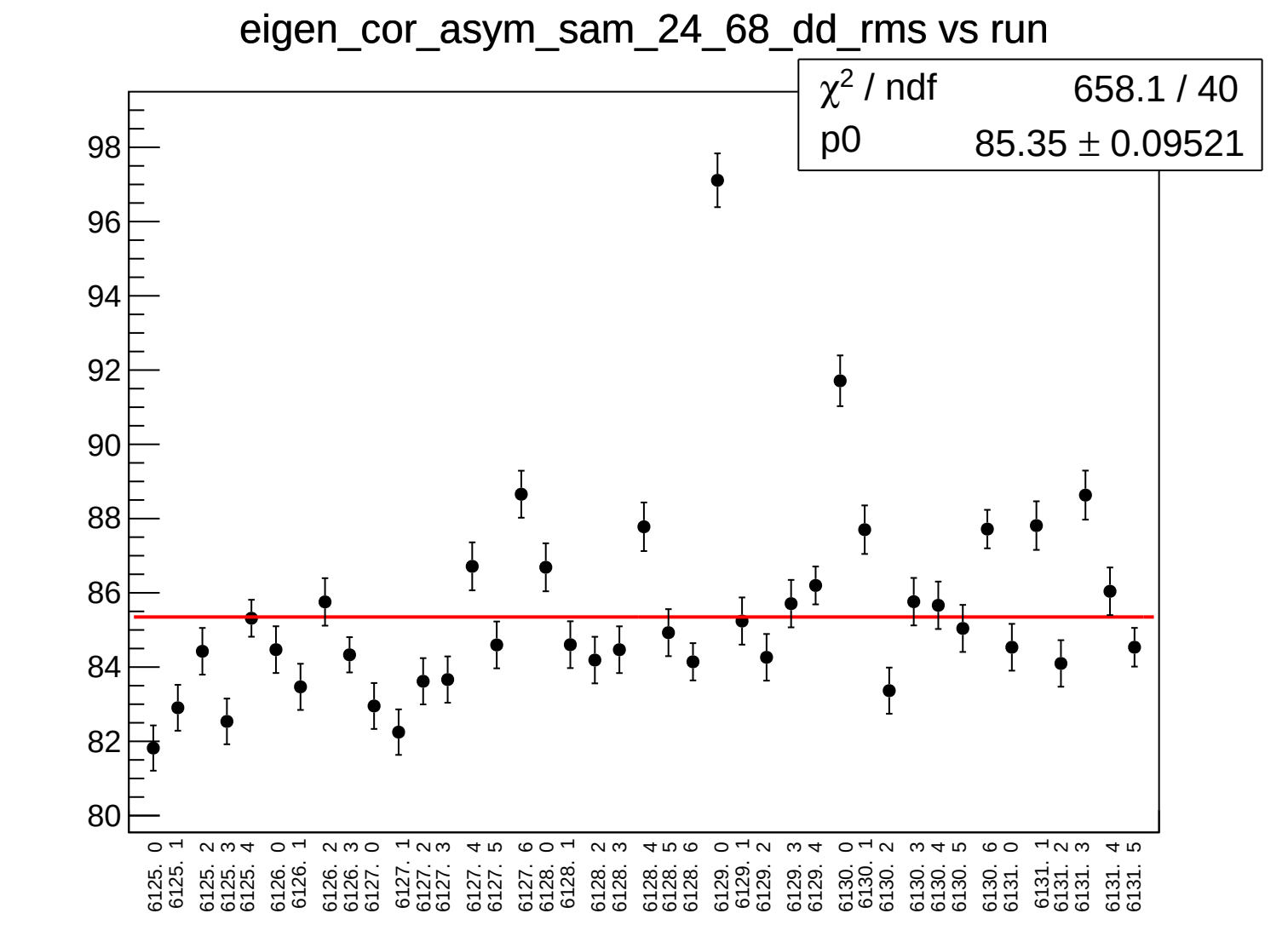

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 24.97 / 40
p0 −2028 ± 2274
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1393
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

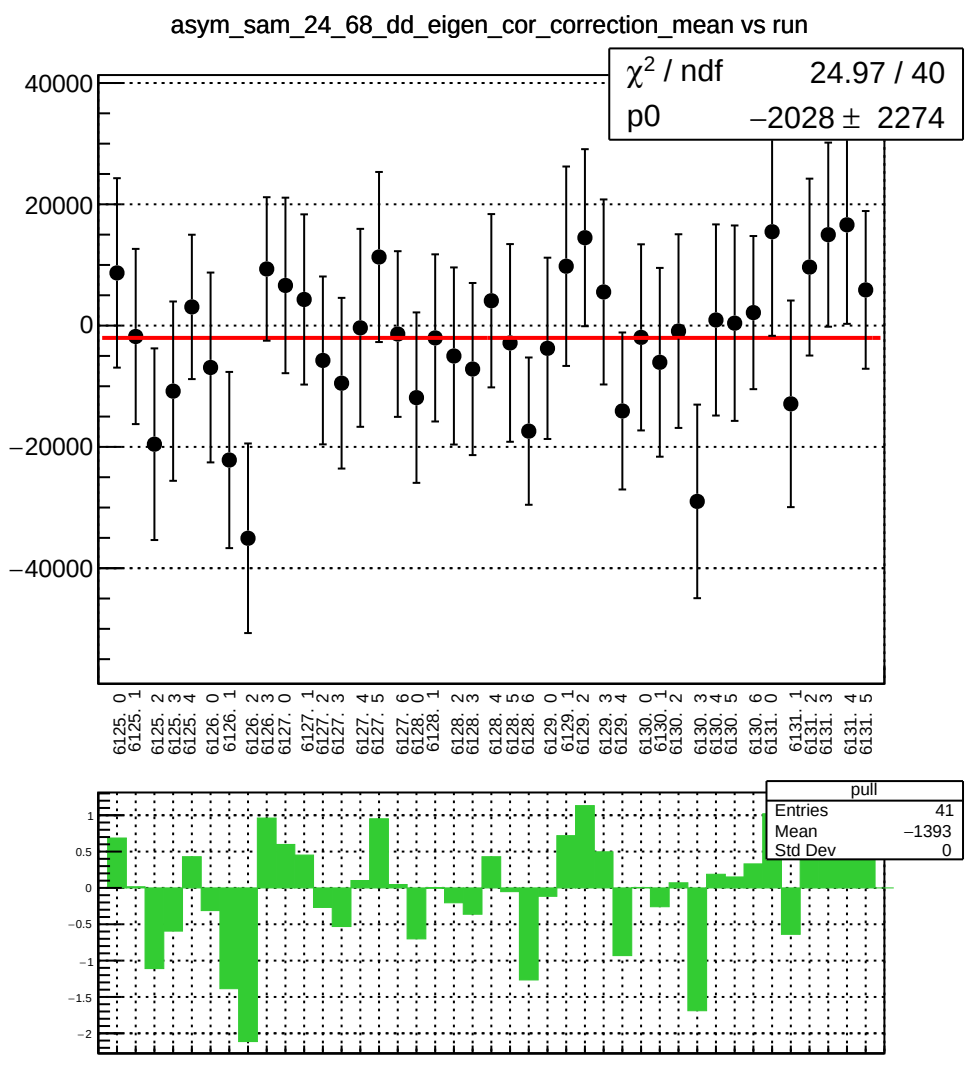

pull1D
Entries 41
Mean −0.001814
Std Dev 0.7804
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

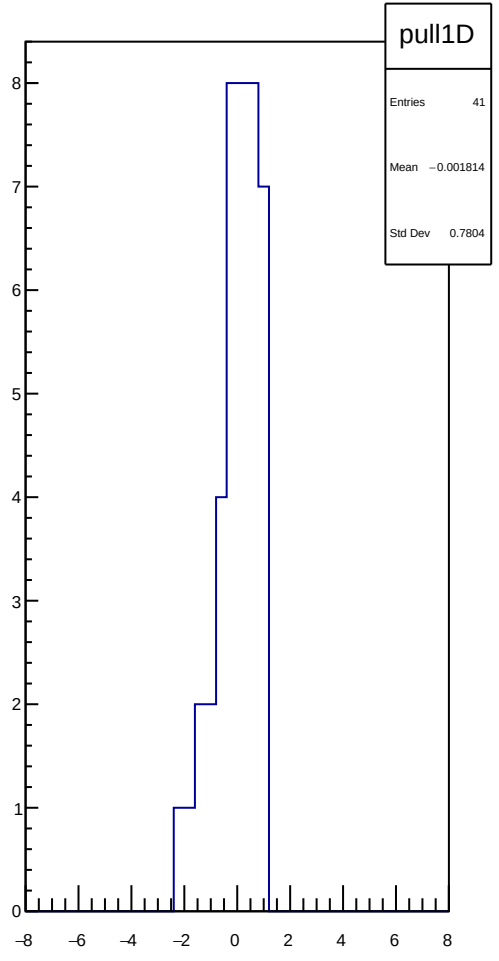

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 2636 / 40
p0 1440 ± 1.608
1650
1600
1550
1500
1450
1400
1350
1300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

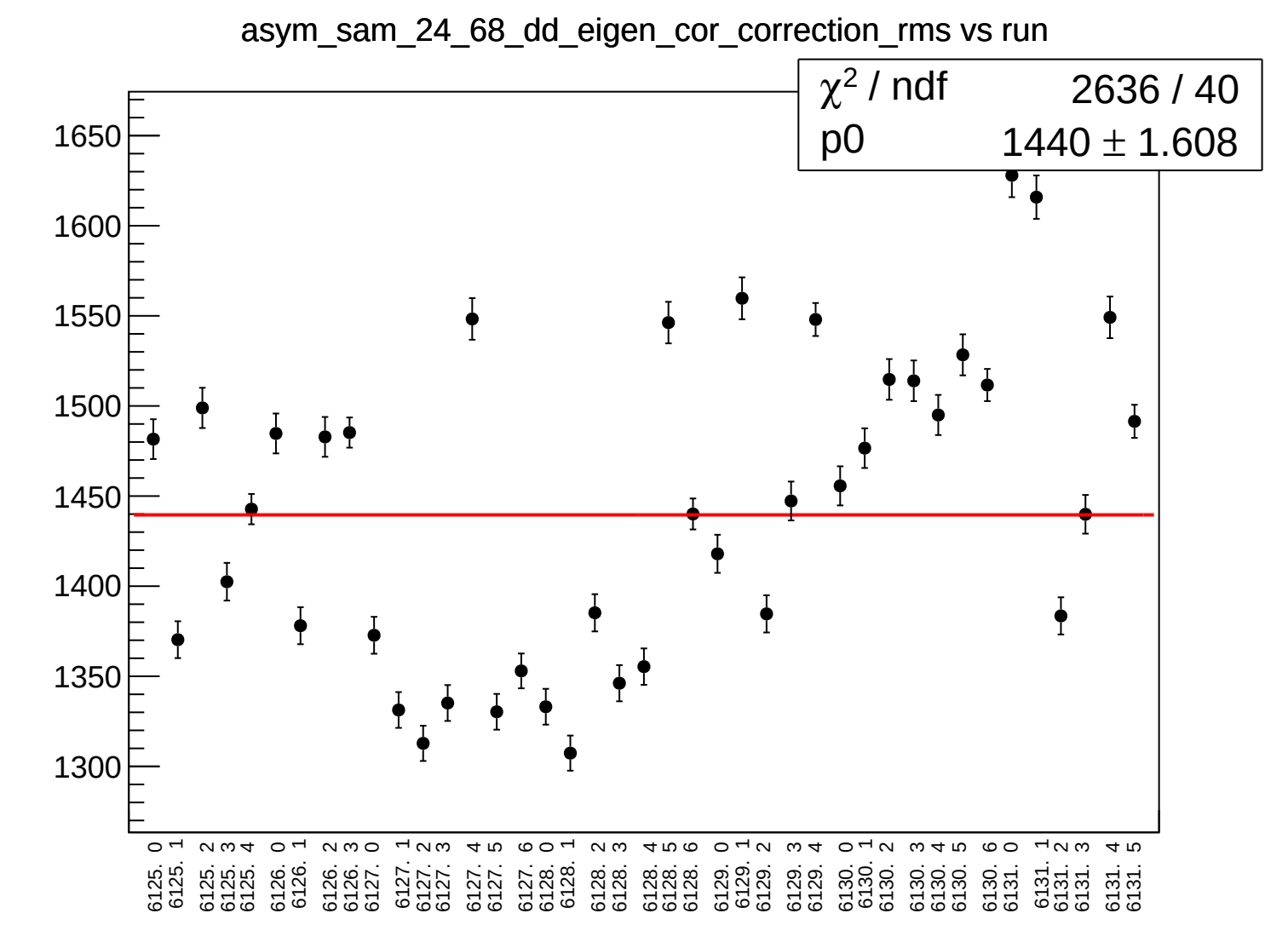

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 43.75 / 40
p0 264 ± 134.6
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −38.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

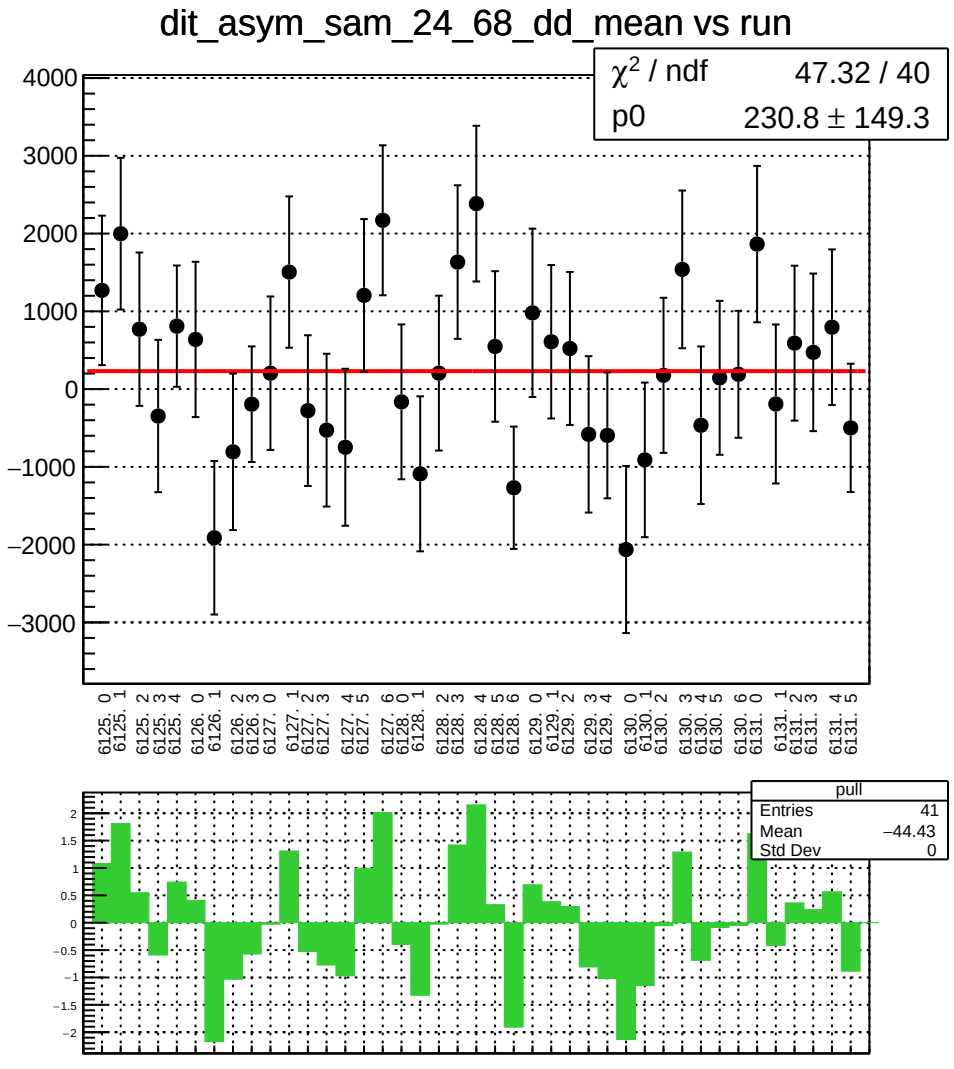

pull1D
Entries 41
Mean 0.02266
Std Dev 1.033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

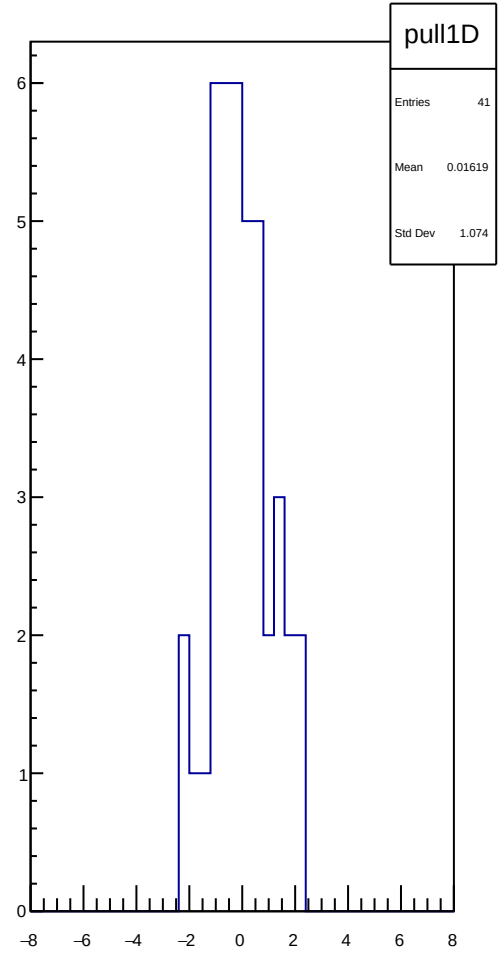

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 658.1 / 40
p0 85.35 ± 0.09521
98
96
94
92
90
88
86
84
82
80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

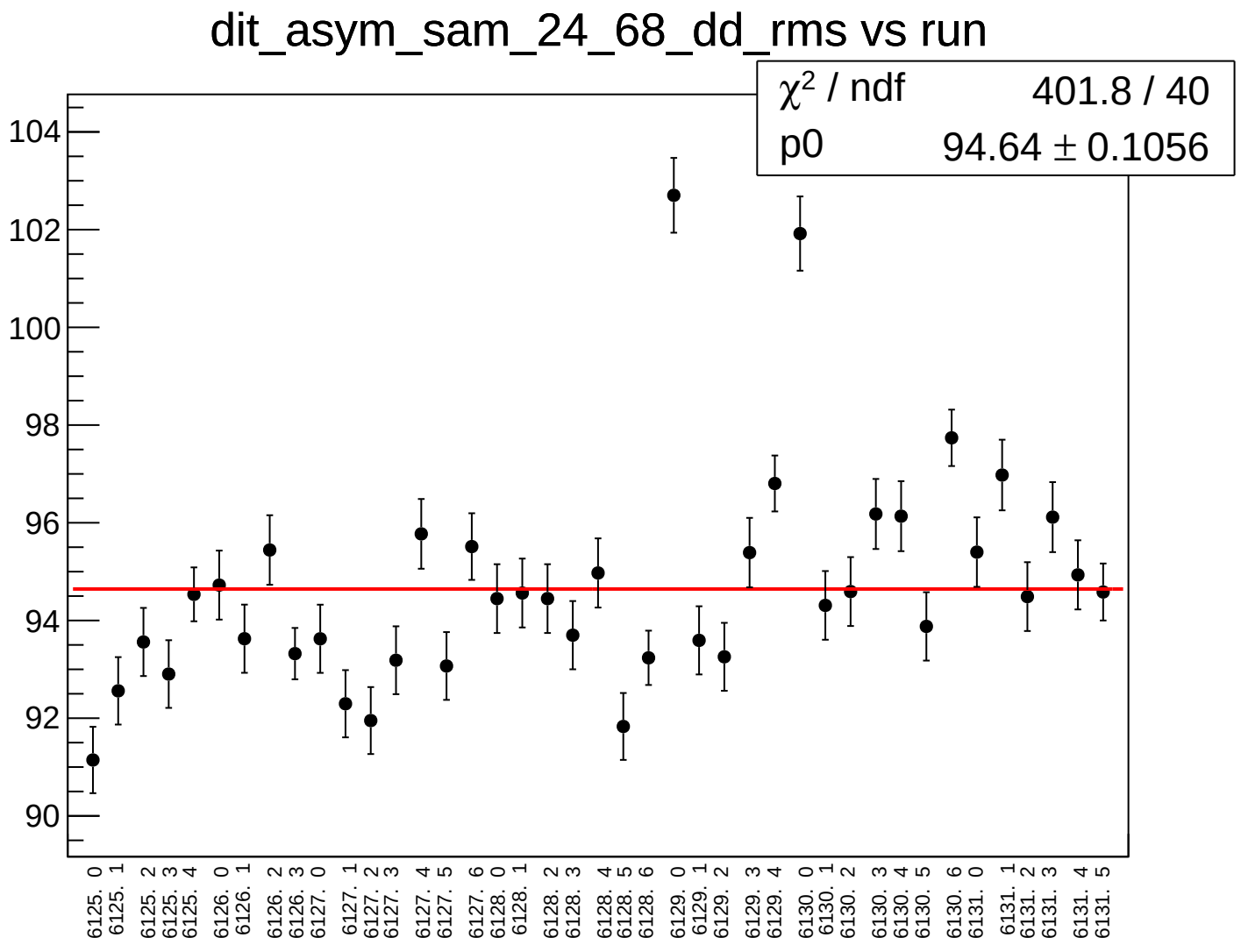

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 24.97 / 40
p0 −2028 ± 2274
40000
20000
0
−20000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1393
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

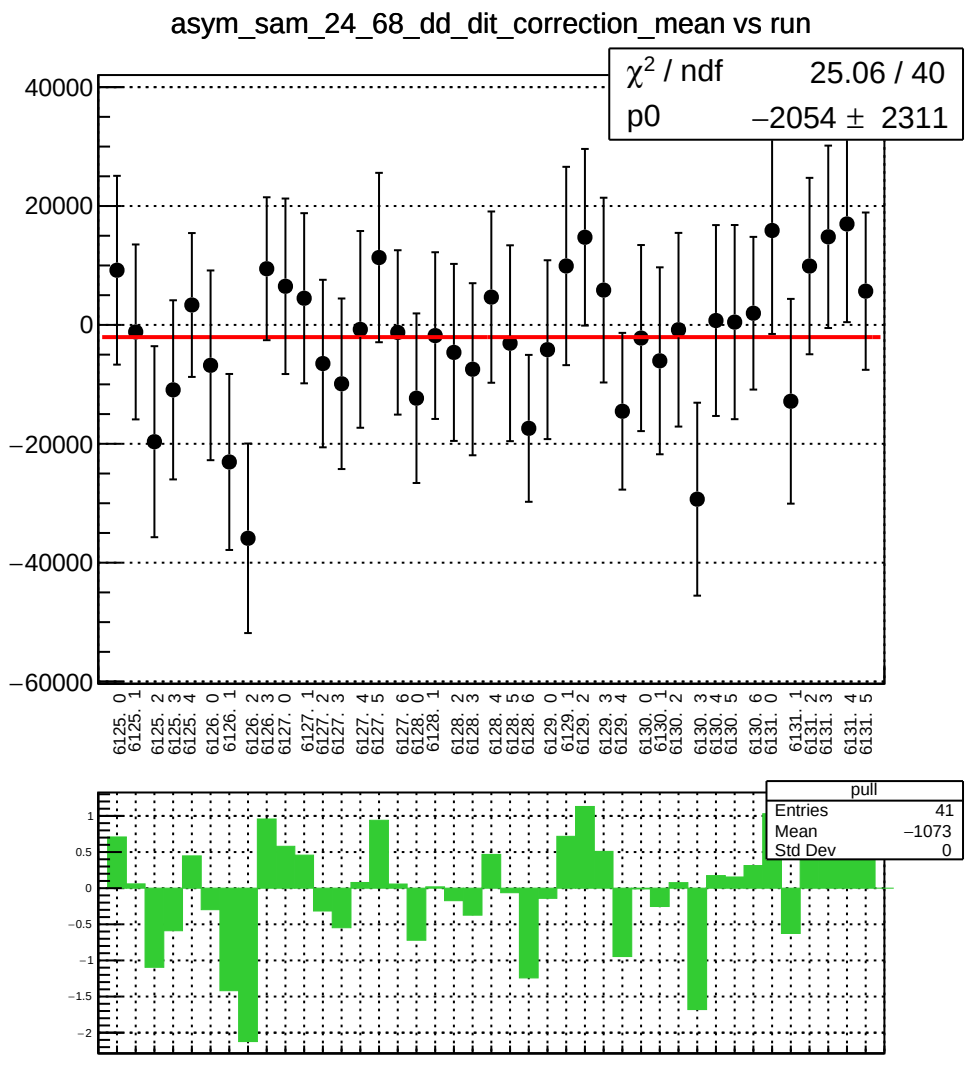

pull1D
Entries 41
Mean −0.001814
Std Dev 0.7804
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

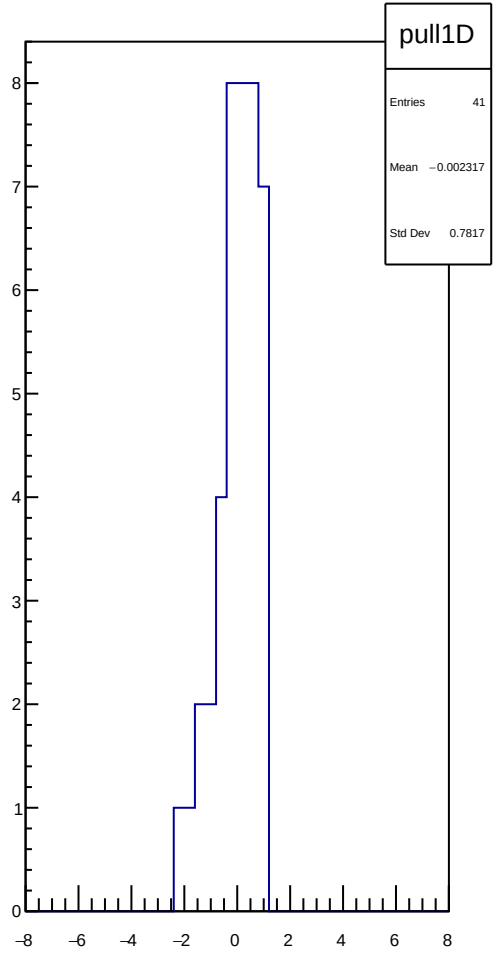

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 2636 / 40
p0 1440 ± 1.608
1650
1600
1550
1500
1450
1400
1350
1300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

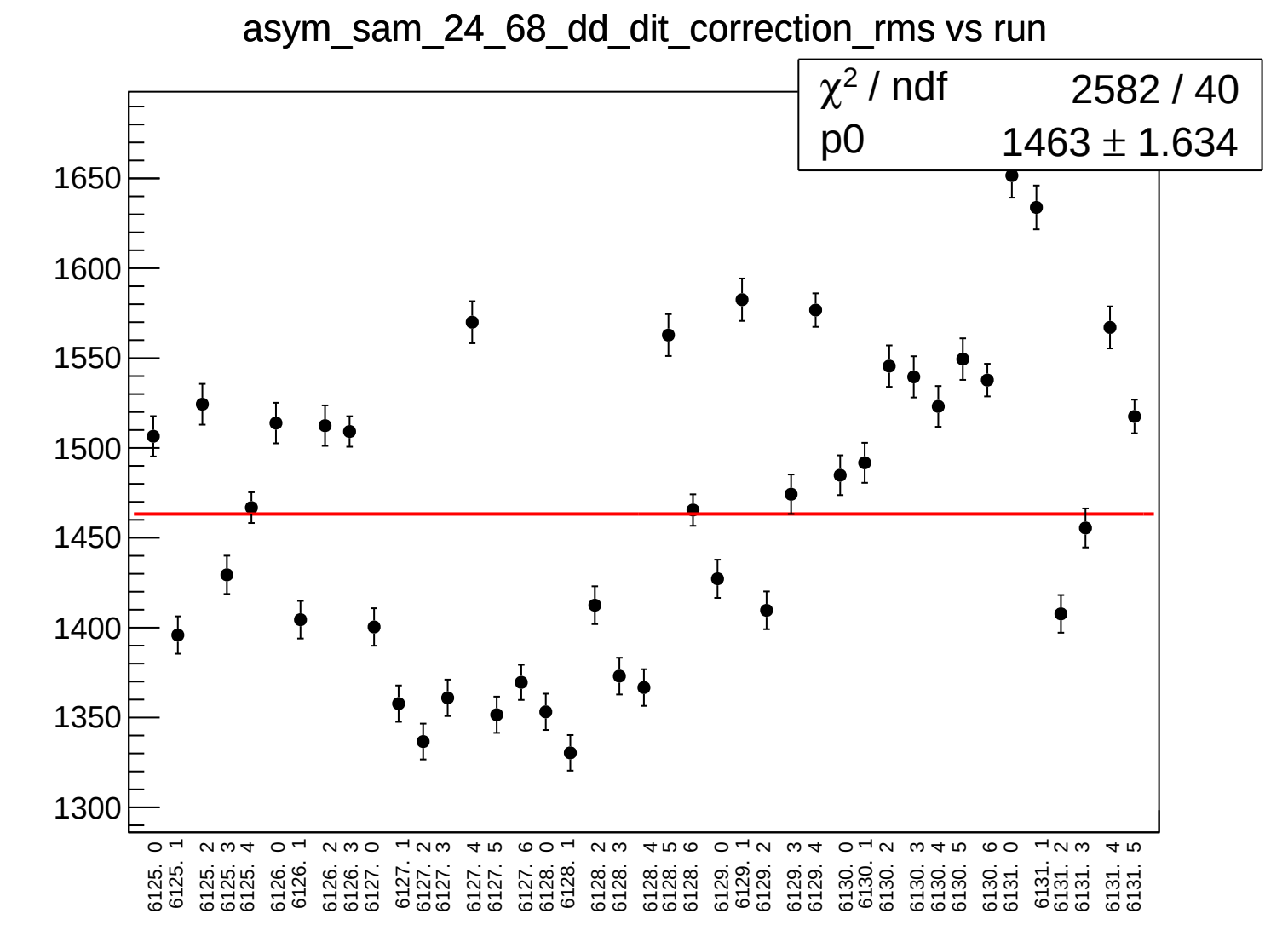

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 47.32 / 40
p0 230.8 ± 149.3
4000
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −44.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

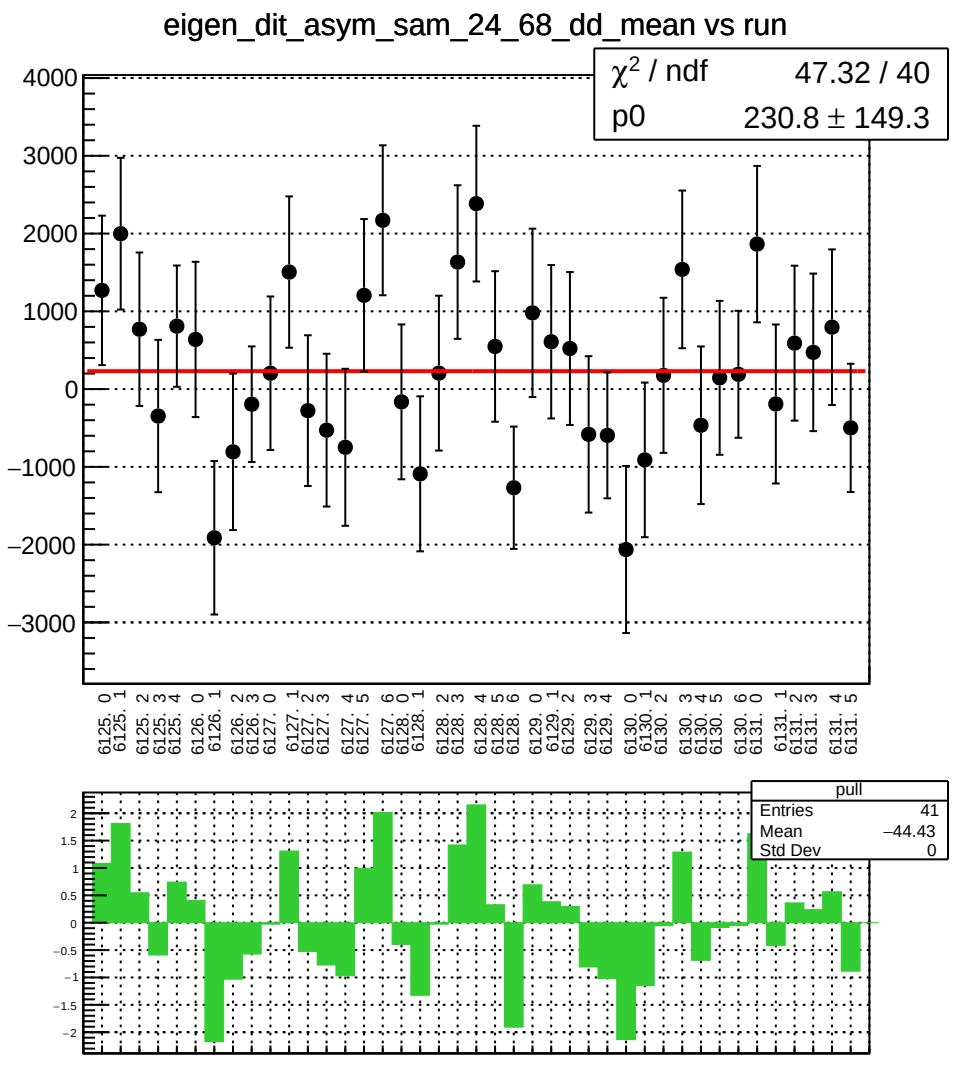

pull1D
Entries 41
Mean 0.01619
Std Dev 1.074
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

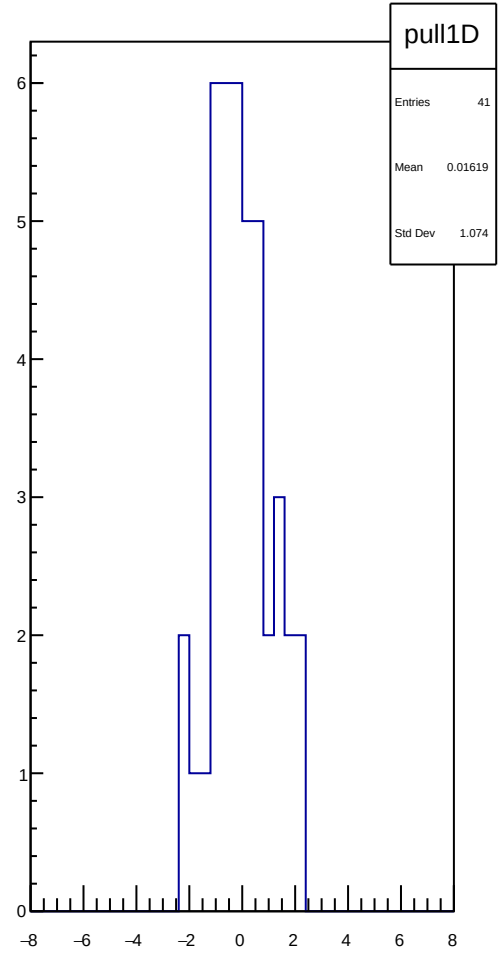

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 401.8 / 40
p0 94.64 ± 0.1056
104
102
100
98
96
94
92
90
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

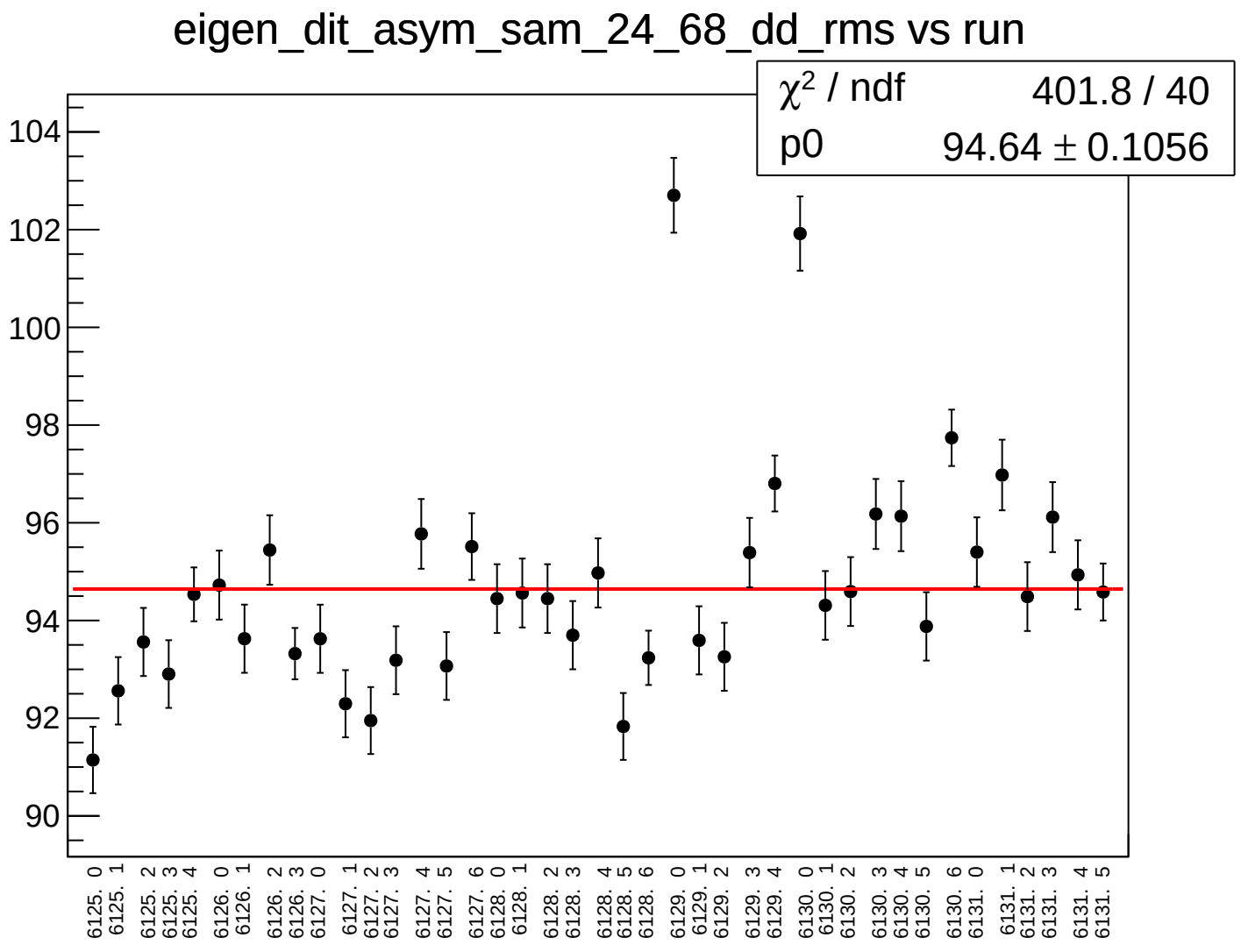

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 25.06 / 40
p0 −2054 ± 2311
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1073
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

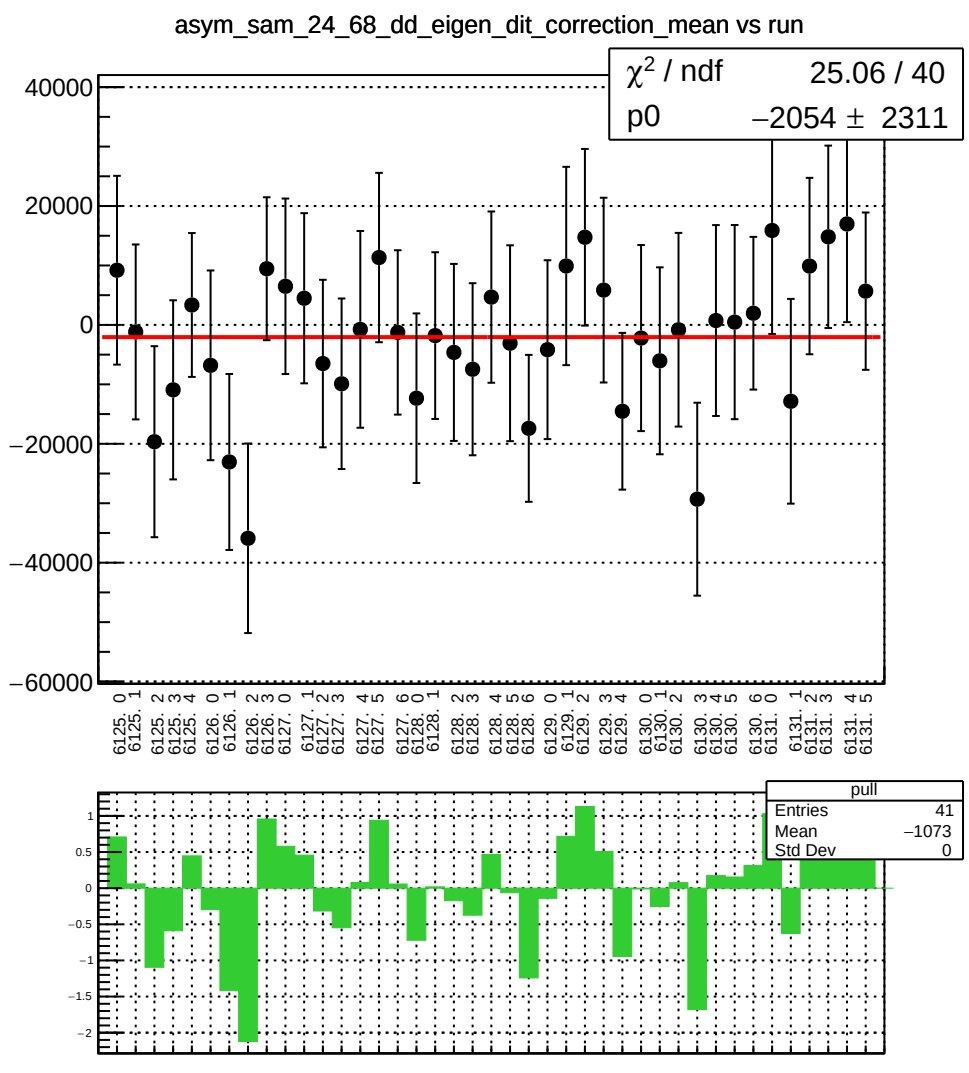

pull1D
Entries 41
Mean −0.002317
Std Dev 0.7817
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

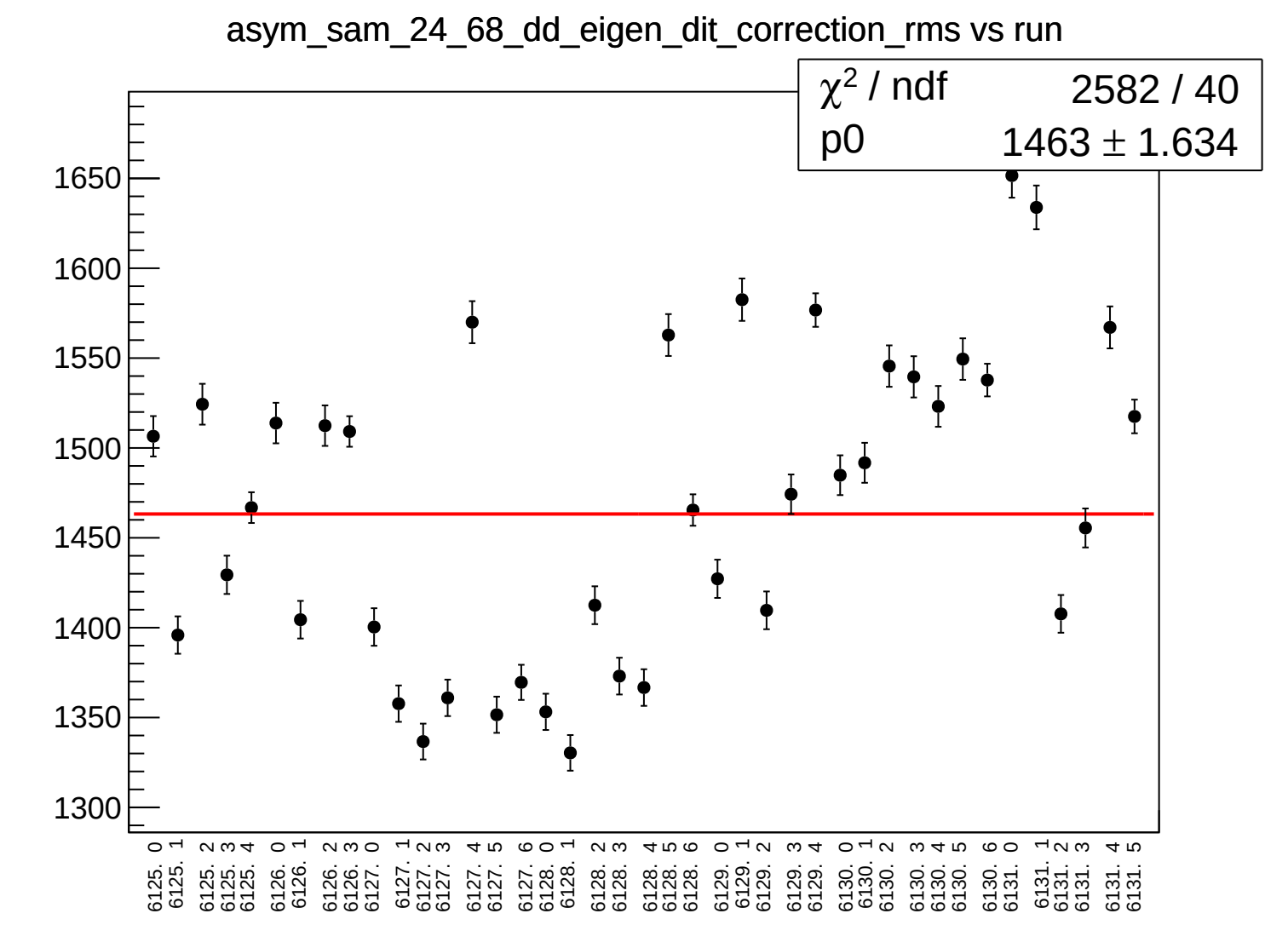

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 2582 / 40
p0 1463 ± 1.634
1650
1600
1550
1500
1450
1400
1350
1300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

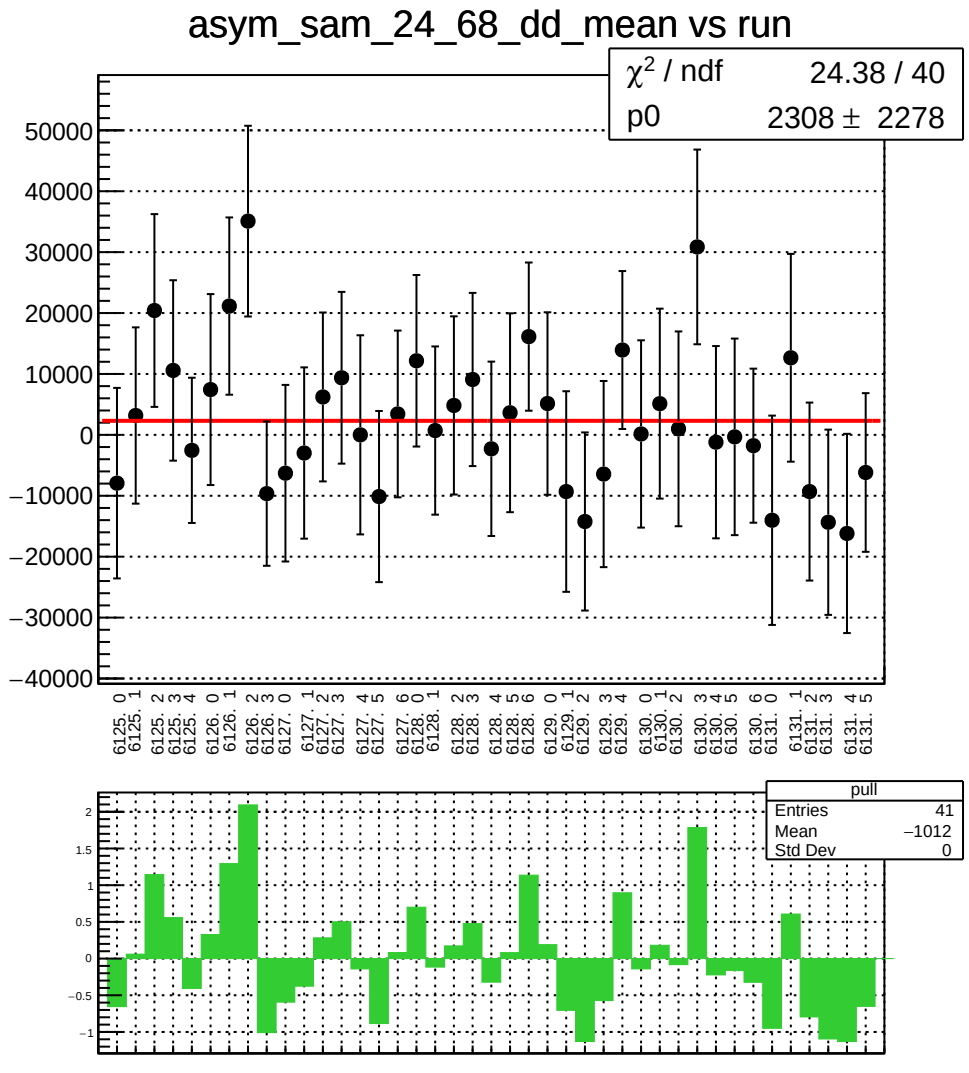

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 47.32 / 40
p0 230.8 ± 149.3
4000
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −44.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

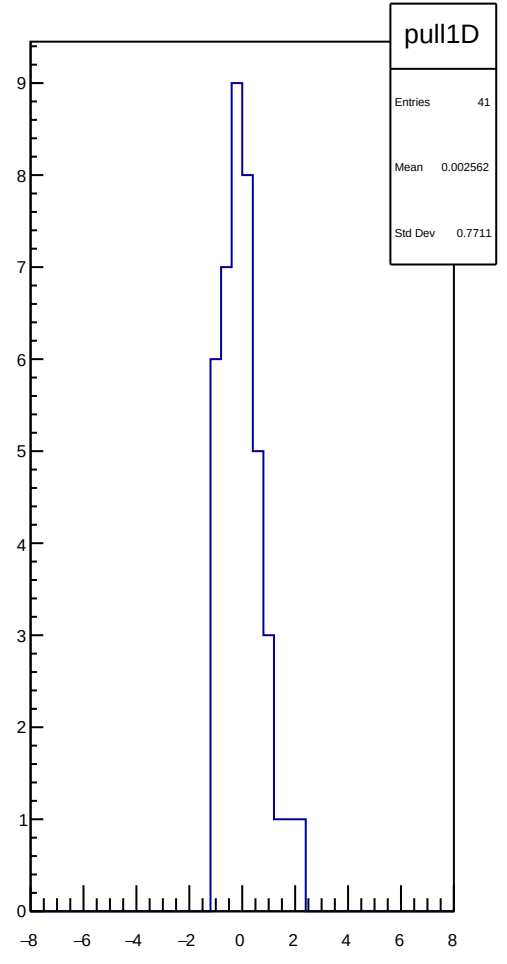

pull1D
Entries 41
Mean 0.01619
Std Dev 1.074
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

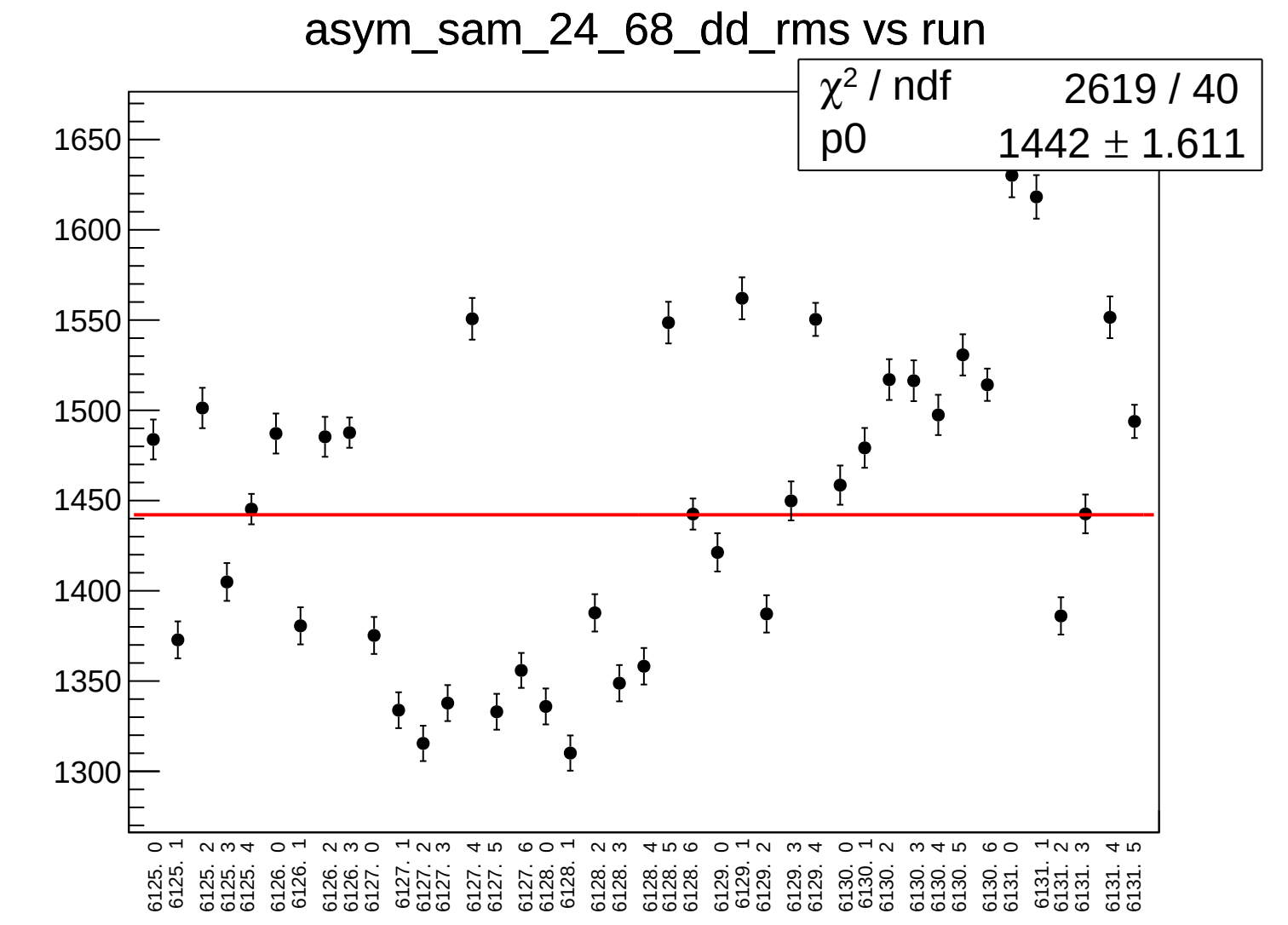

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 401.8 / 40
p0 94.64 ± 0.1056
104
102
100
98
96
94
92
90
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

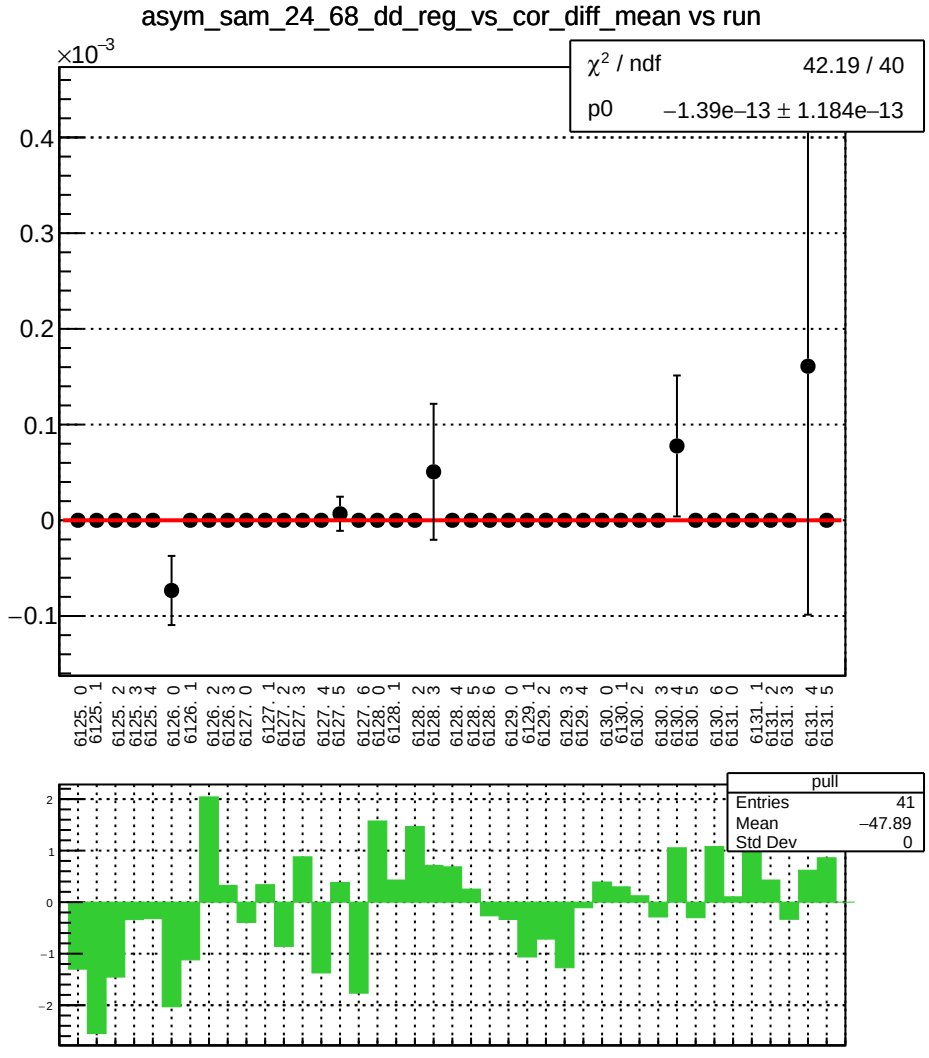

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 25.06 / 40
p0 −2054 ± 2311
40000
20000
0
−20000
−40000
−60000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1073
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.002317
Std Dev 0.7817
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

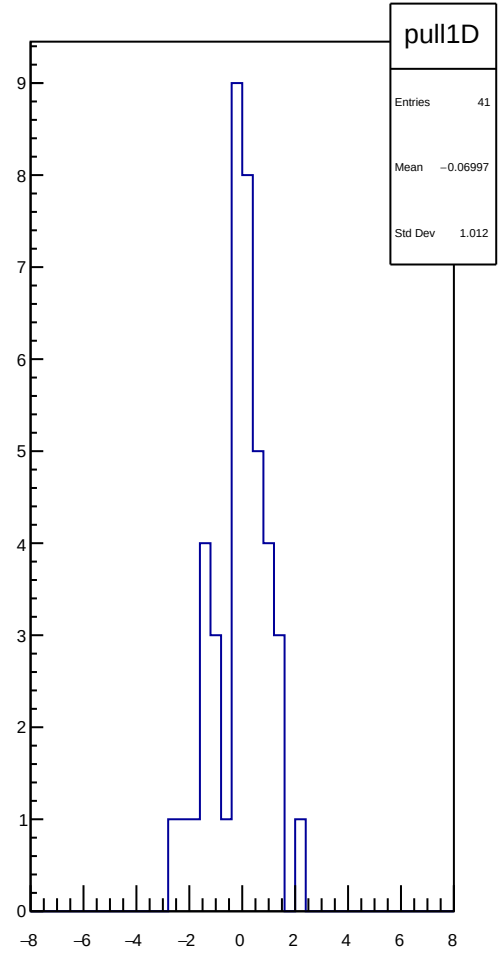

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 2582 / 40
p0 1463 ± 1.634
1650
1600
1550
1500
1450
1400
1350
1300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

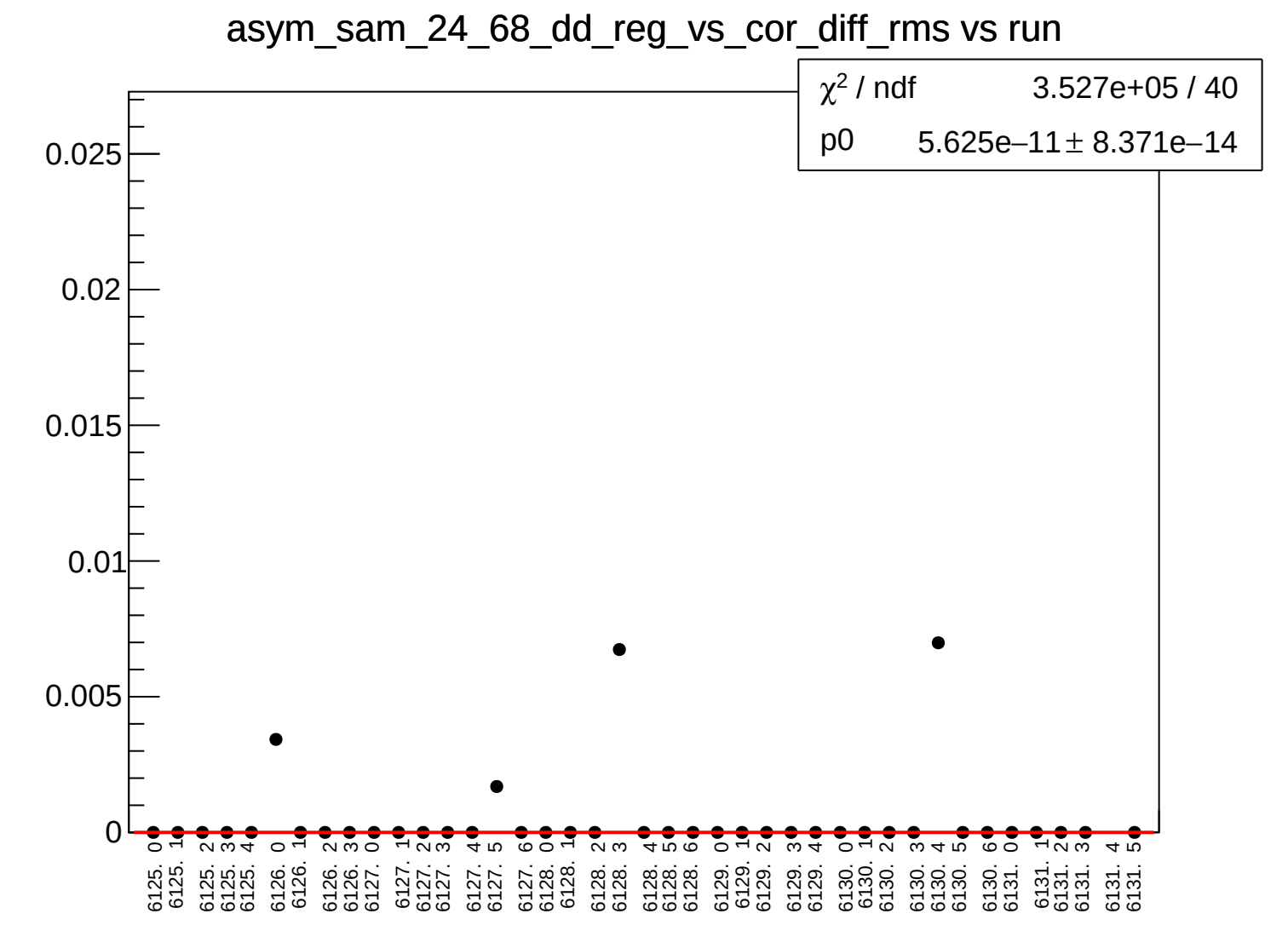

asym_sam_24_68_dd_mean vs run
χ² / ndf 24.38 / 40
p0 2308 ± 2278
pull
Entries 41
Mean −1012
Std Dev 0

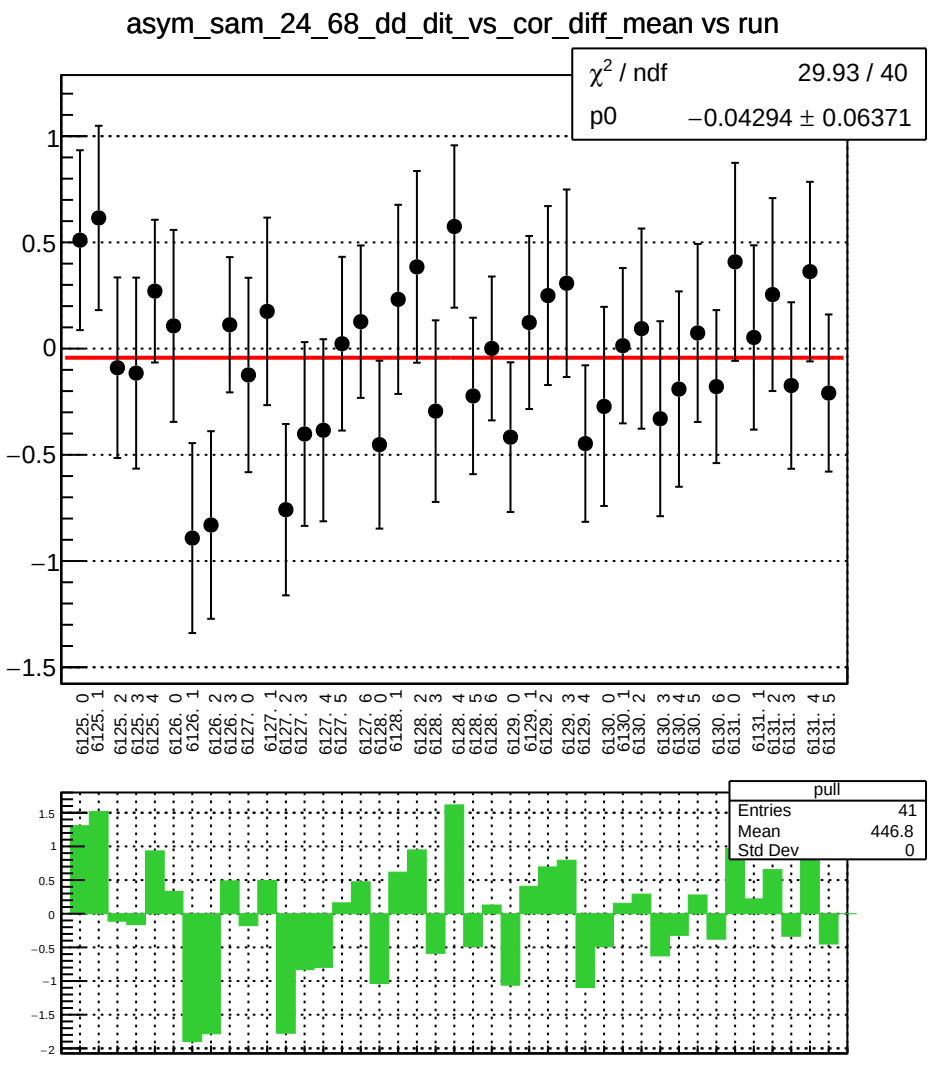

pull1D
Entries 41
Mean 0.002562
Std Dev 0.7711

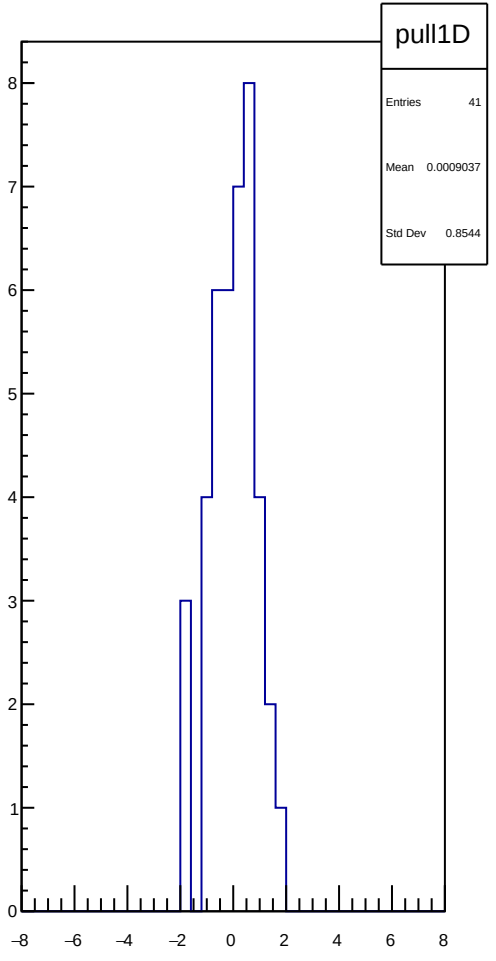

asym_sam_24_68_dd_rms vs run
χ² / ndf 2619 / 40
p0 1442 ± 1.611
1650
1600
1550
1500
1450
1400
1350
1300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

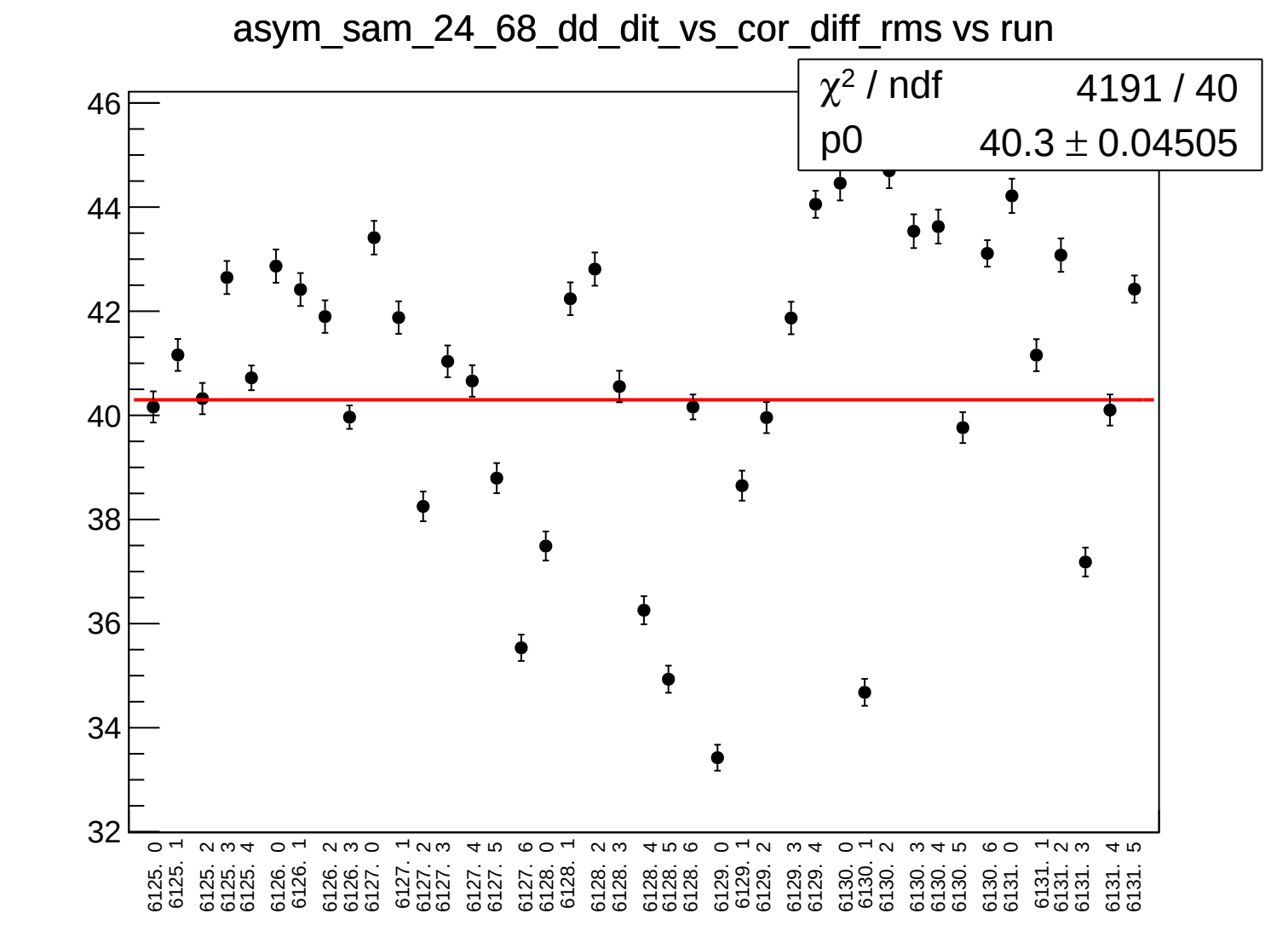

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 42.19 / 40
p0 −1.39e−13 ± 1.184e−13
0.4
0.3
0.2
0.1
0
−0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −47.89
Std Dev 0
2
1
0
−1
−2

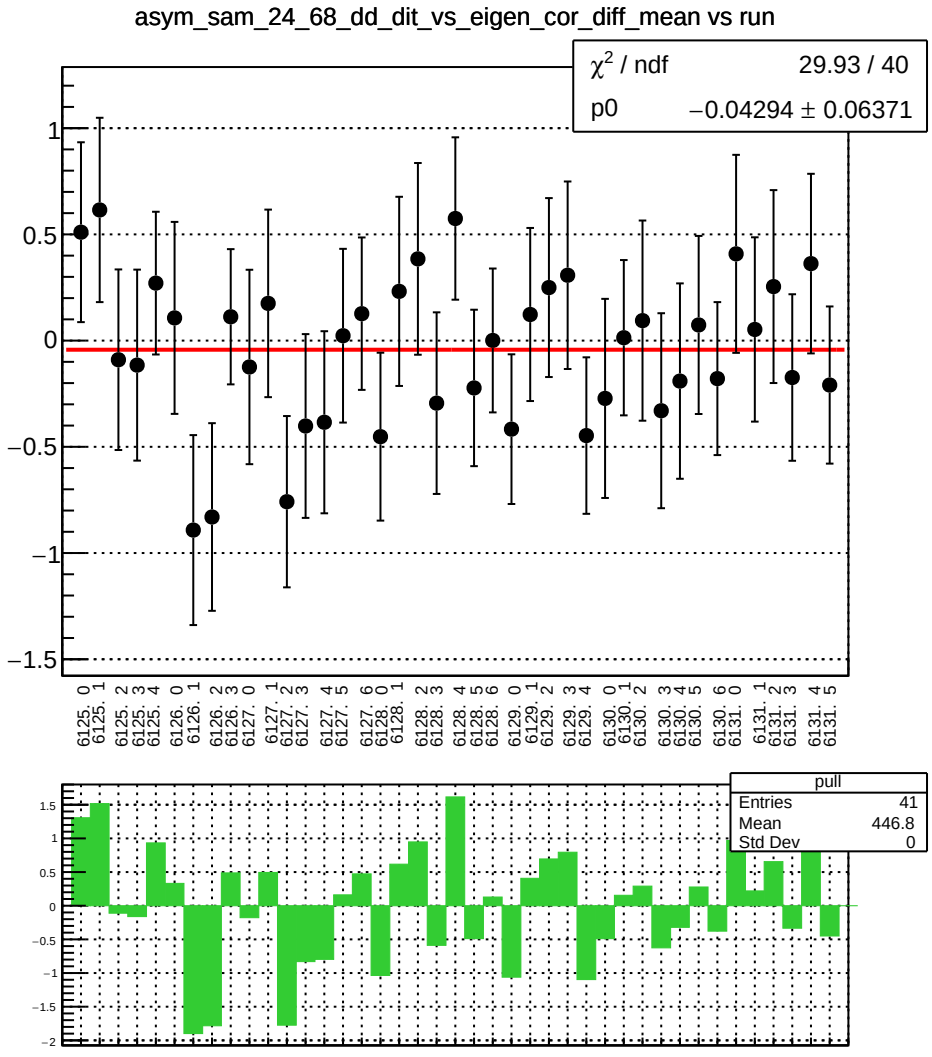

pull1D
Entries 41
Mean −0.06997
Std Dev 1.012
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

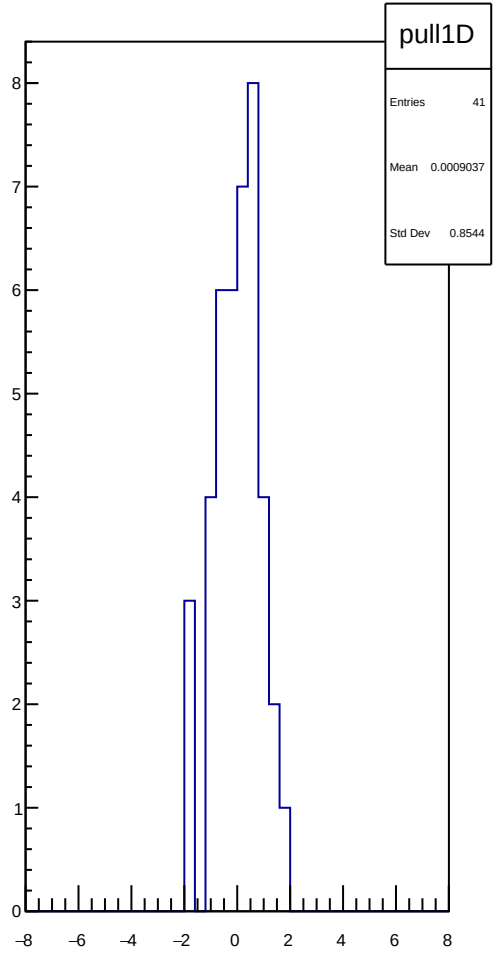

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.527e+05 / 40
p0 5.625e−11 ± 8.371e−14
0.025
0.02
0.015
0.01
0.005
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

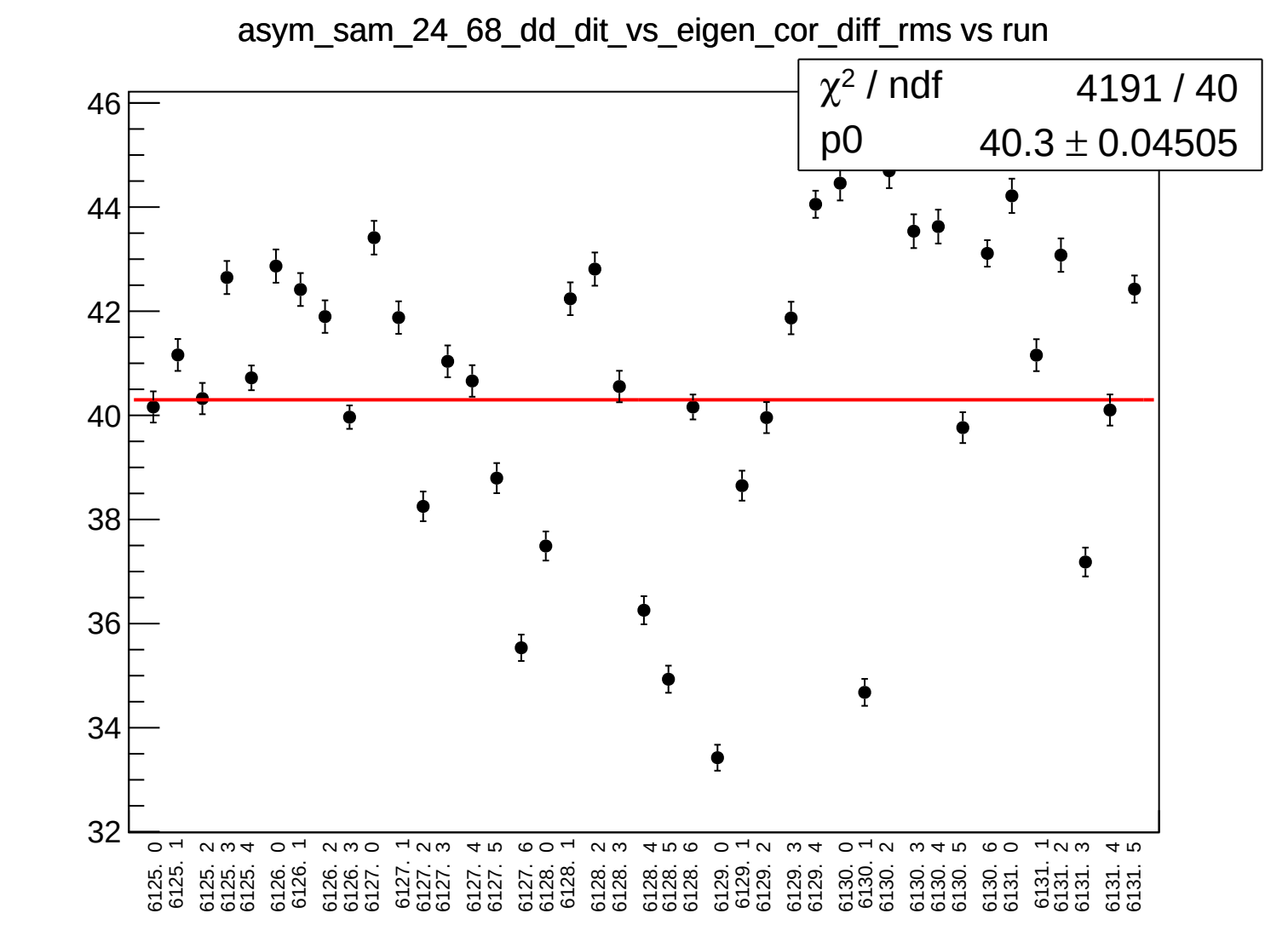

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 29.93 / 40
p0 −0.04294 ± 0.06371
pull
Entries 41
Mean 446.8
Std Dev 0

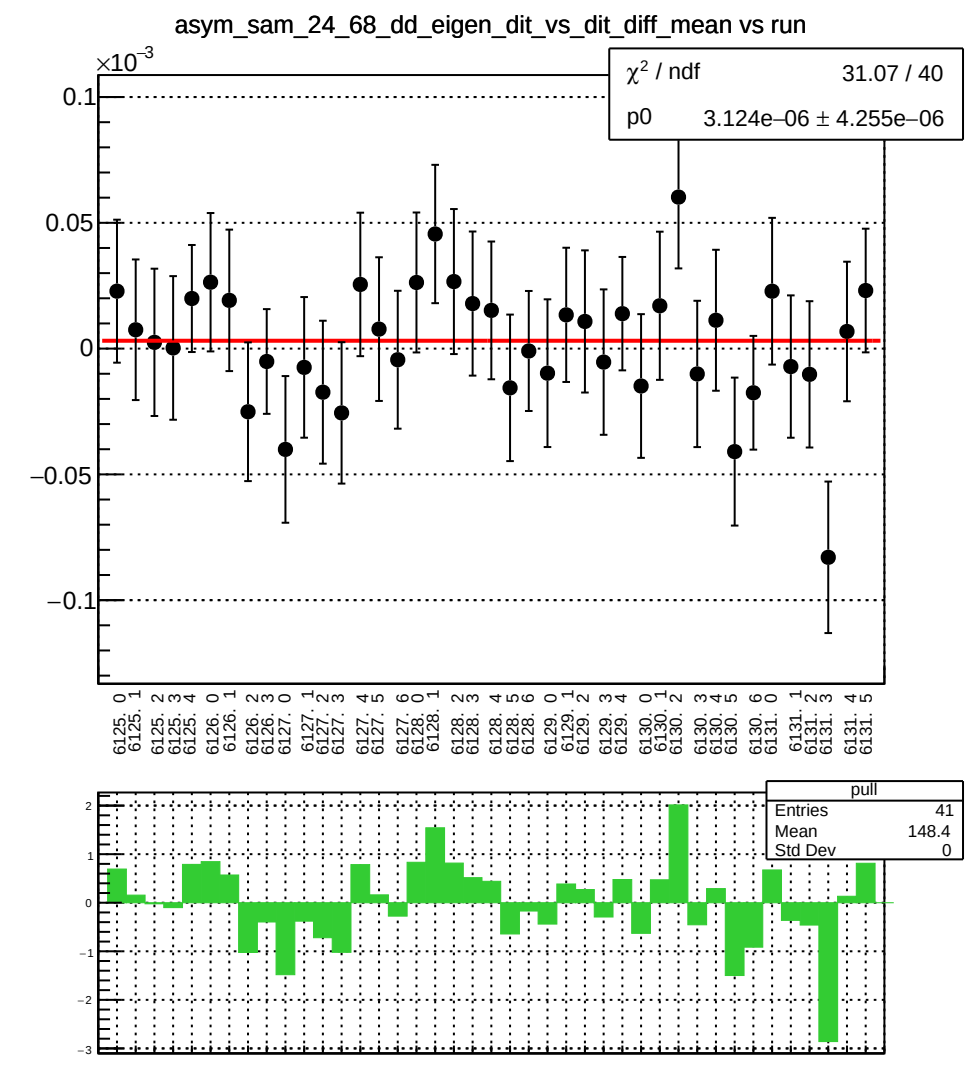

pull1D
Entries 41
Mean 0.0009037
Std Dev 0.8544

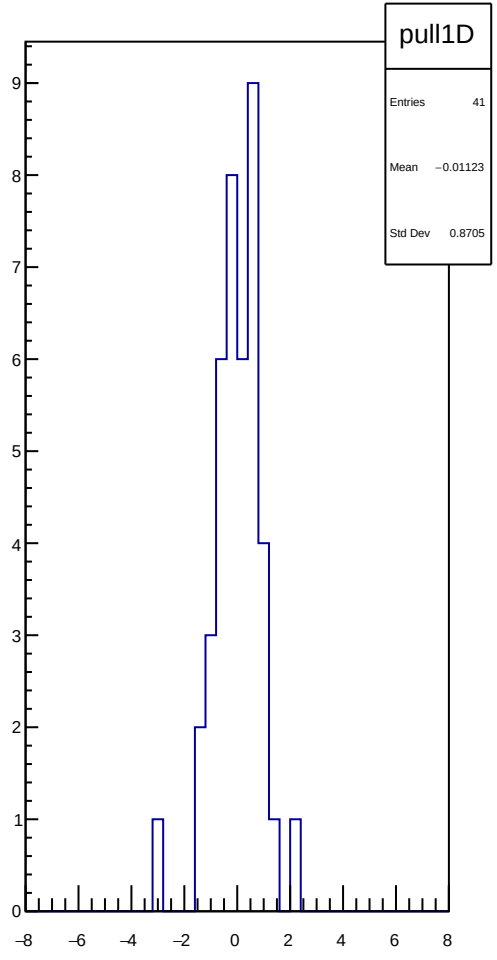

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4191 / 40
p0 40.3 ± 0.04505
46
44
42
40
38
36
34
32
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

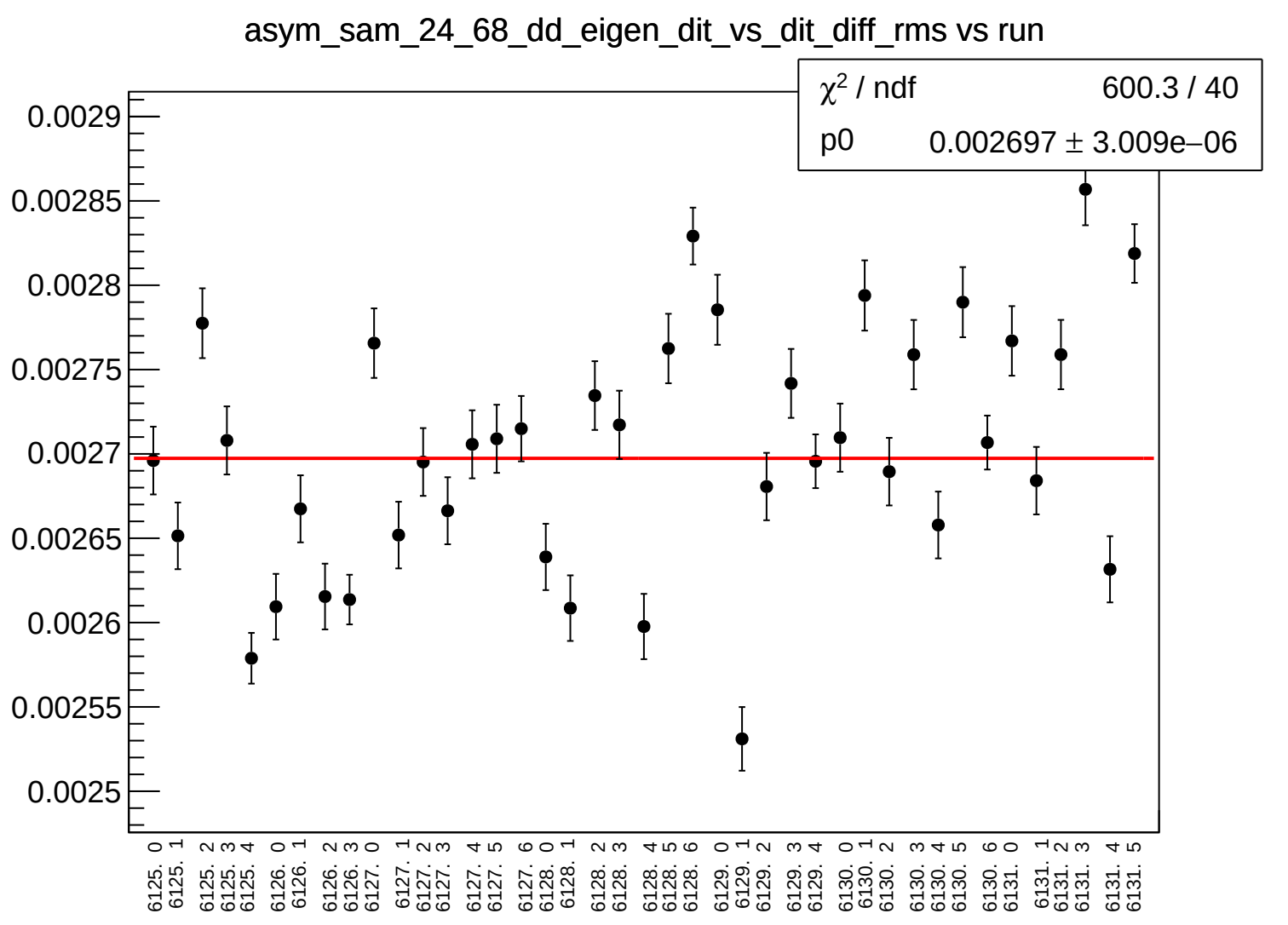

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.93 / 40
p0 −0.04294 ± 0.06371
pull
Entries 41
Mean 446.8
Std Dev 0

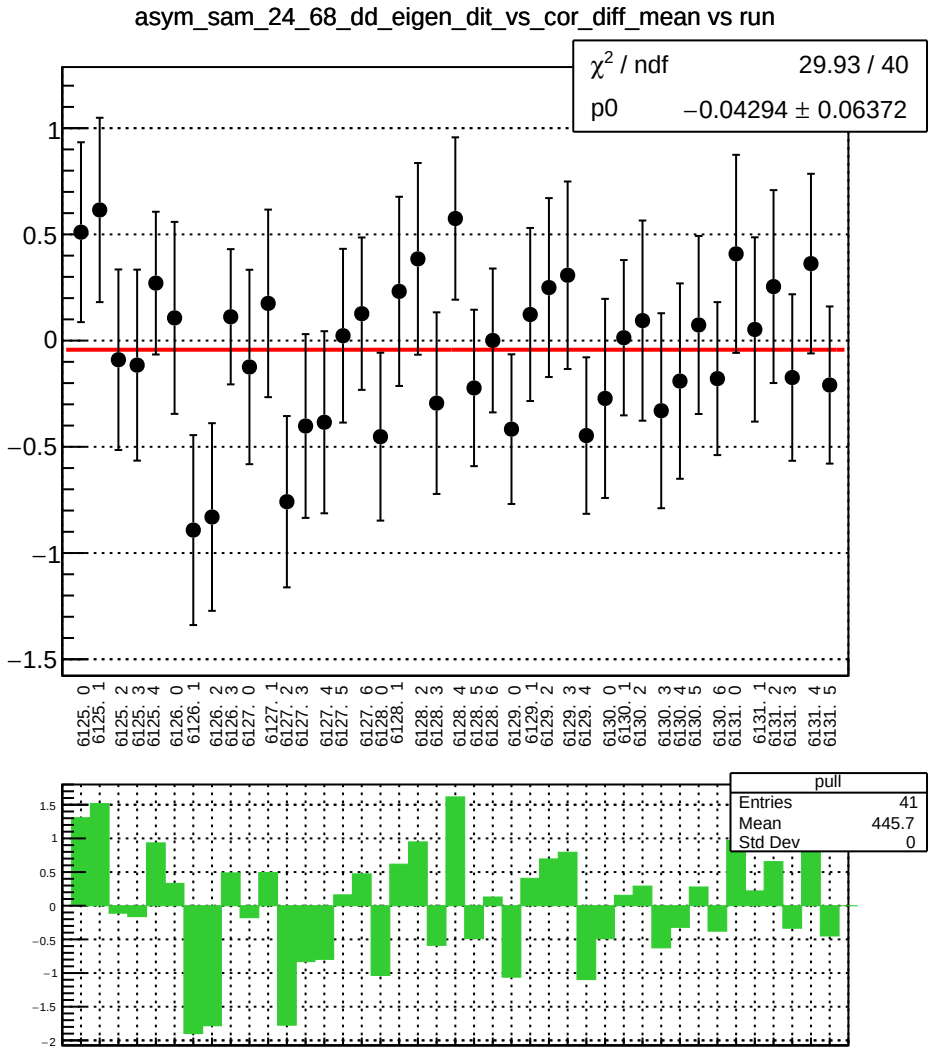

pull1D
Entries 41
Mean 0.0009037
Std Dev 0.8544

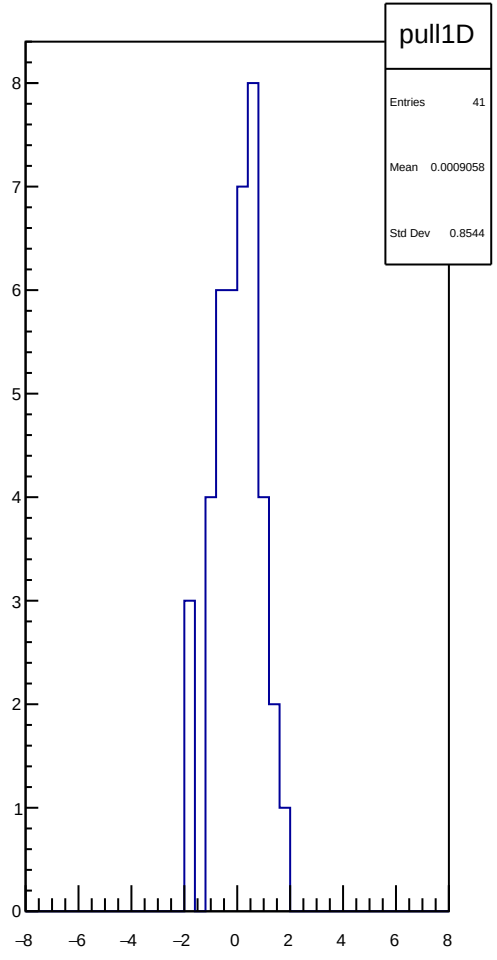

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4191 / 40
p0 40.3 ± 0.04505
46
44
42
40
38
36
34
32
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

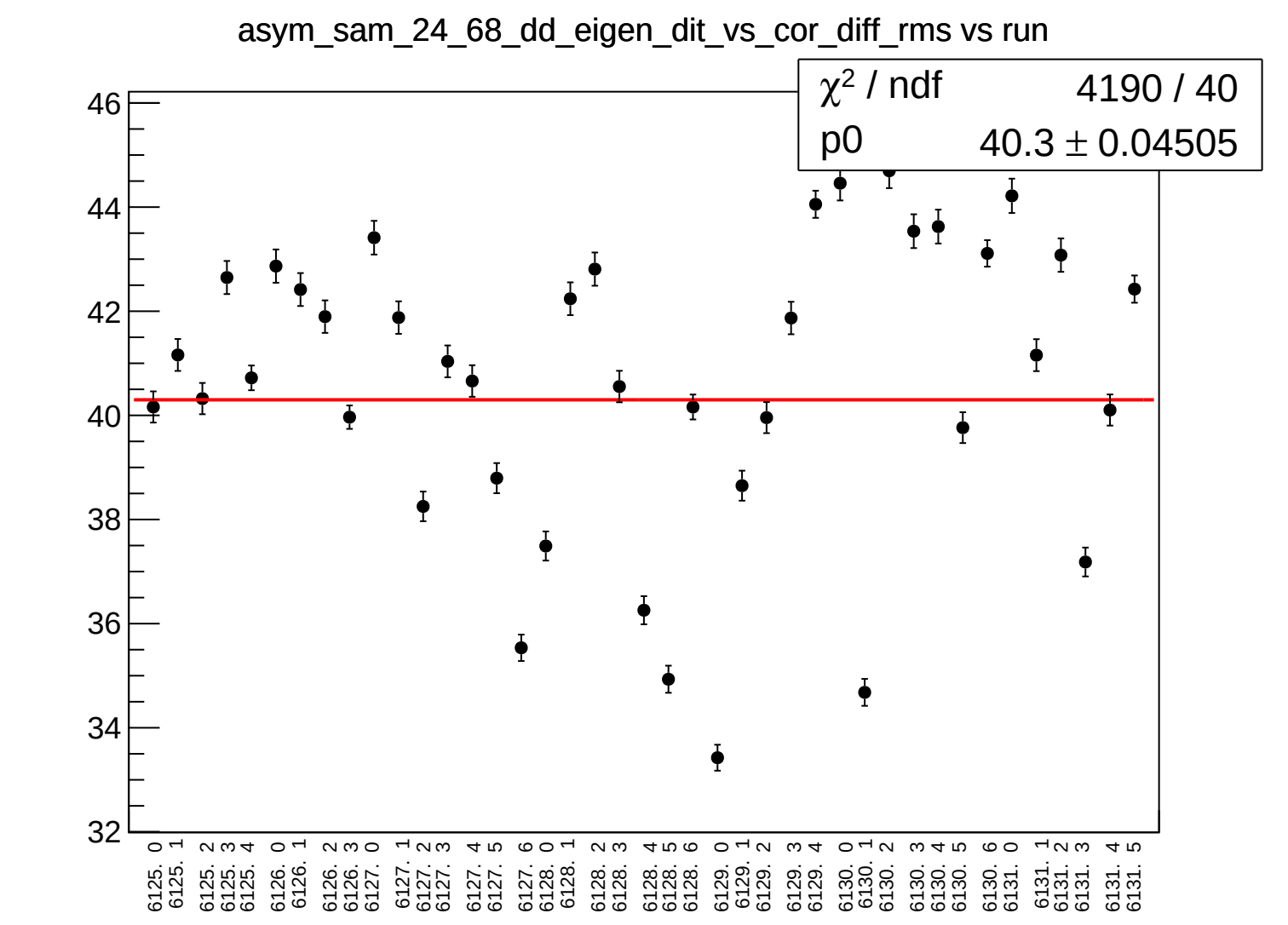

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 31.07 / 40
p0 3.124e−06 ± 4.255e−06
0.1
0.05
0
−0.05
−0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 148.4
Std Dev 0
2
1
0
−1
−2
−3

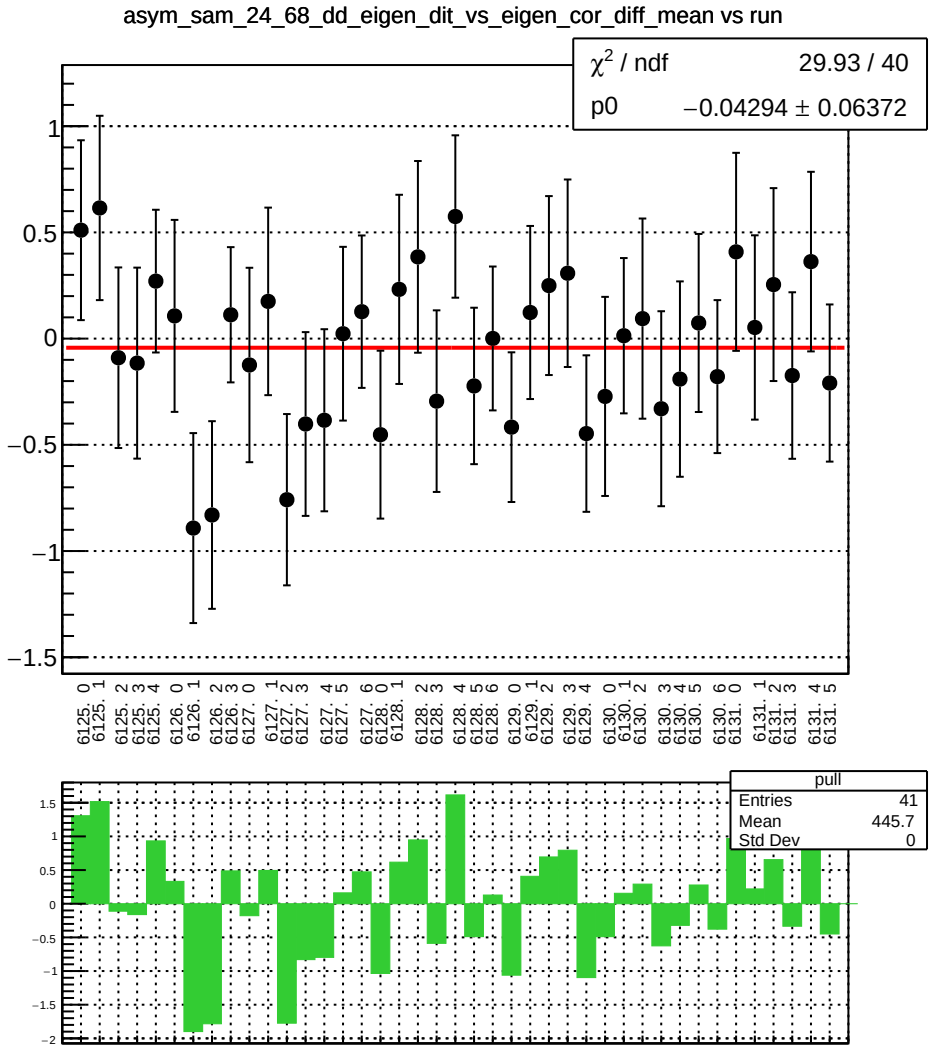

pull1D
Entries 41
Mean −0.01123
Std Dev 0.8705
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

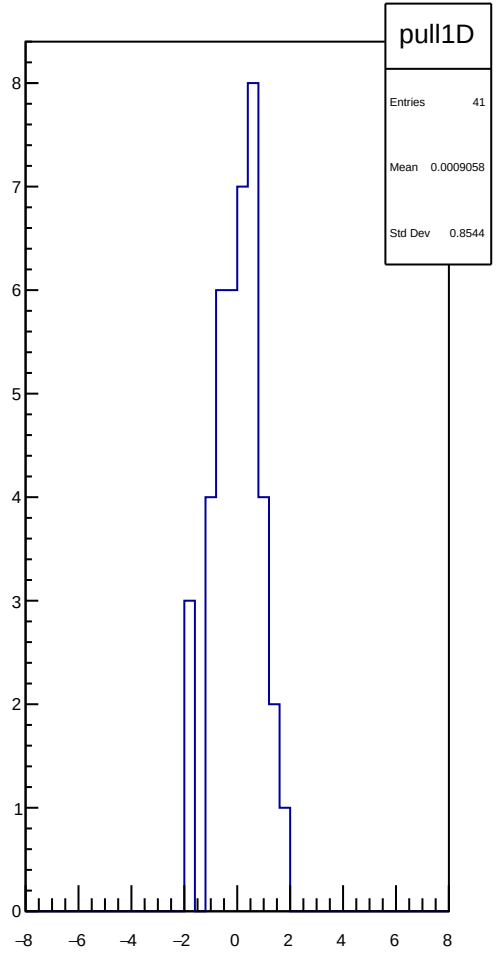

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 600.3 / 40
p0 0.002697 ± 3.009e−06
0.0029
0.00285
0.0028
0.00275
0.0027
0.00265
0.0026
0.00255
0.0025
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

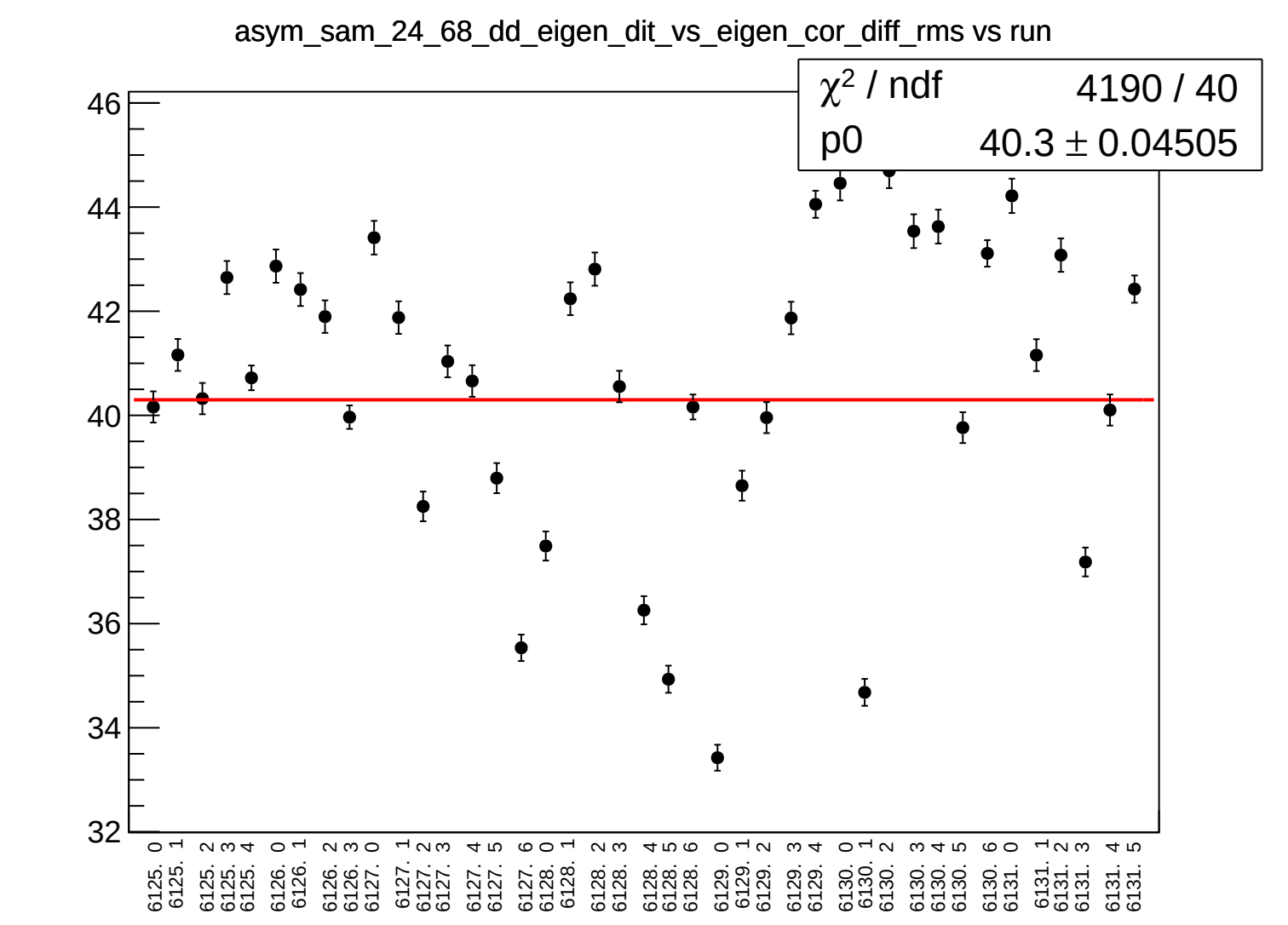

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 29.93 / 40
p0 −0.04294 ± 0.06372
pull
Entries 41
Mean 445.7
Std Dev 0

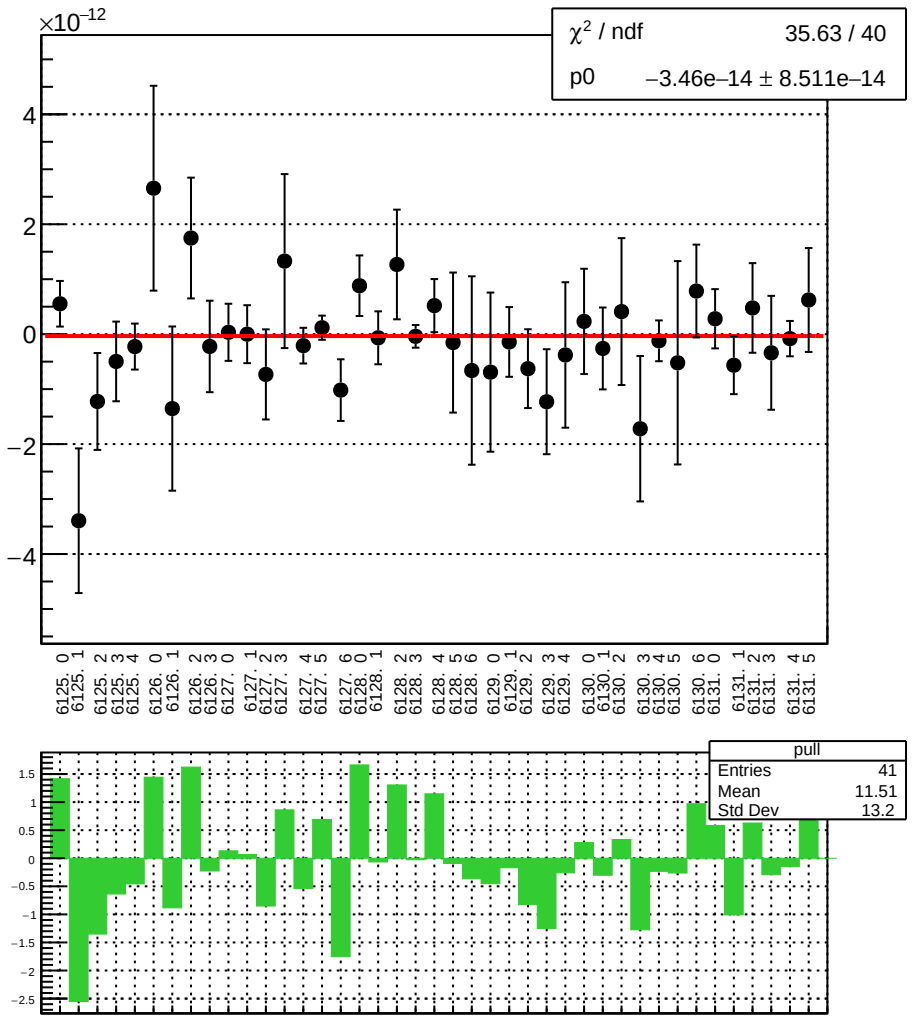

pull1D
Entries 41
Mean 0.0009058
Std Dev 0.8544

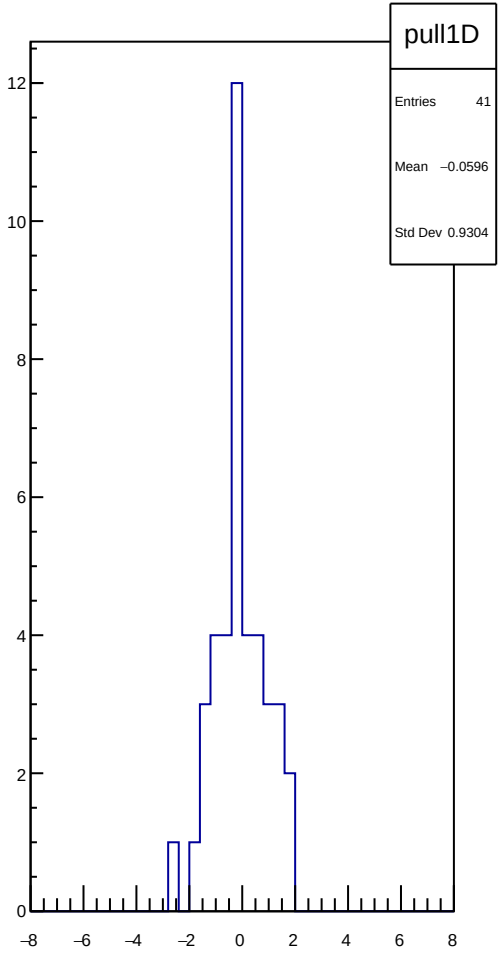

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4190 / 40
p0 40.3 ± 0.04505
46
44
42
40
38
36
34
32
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

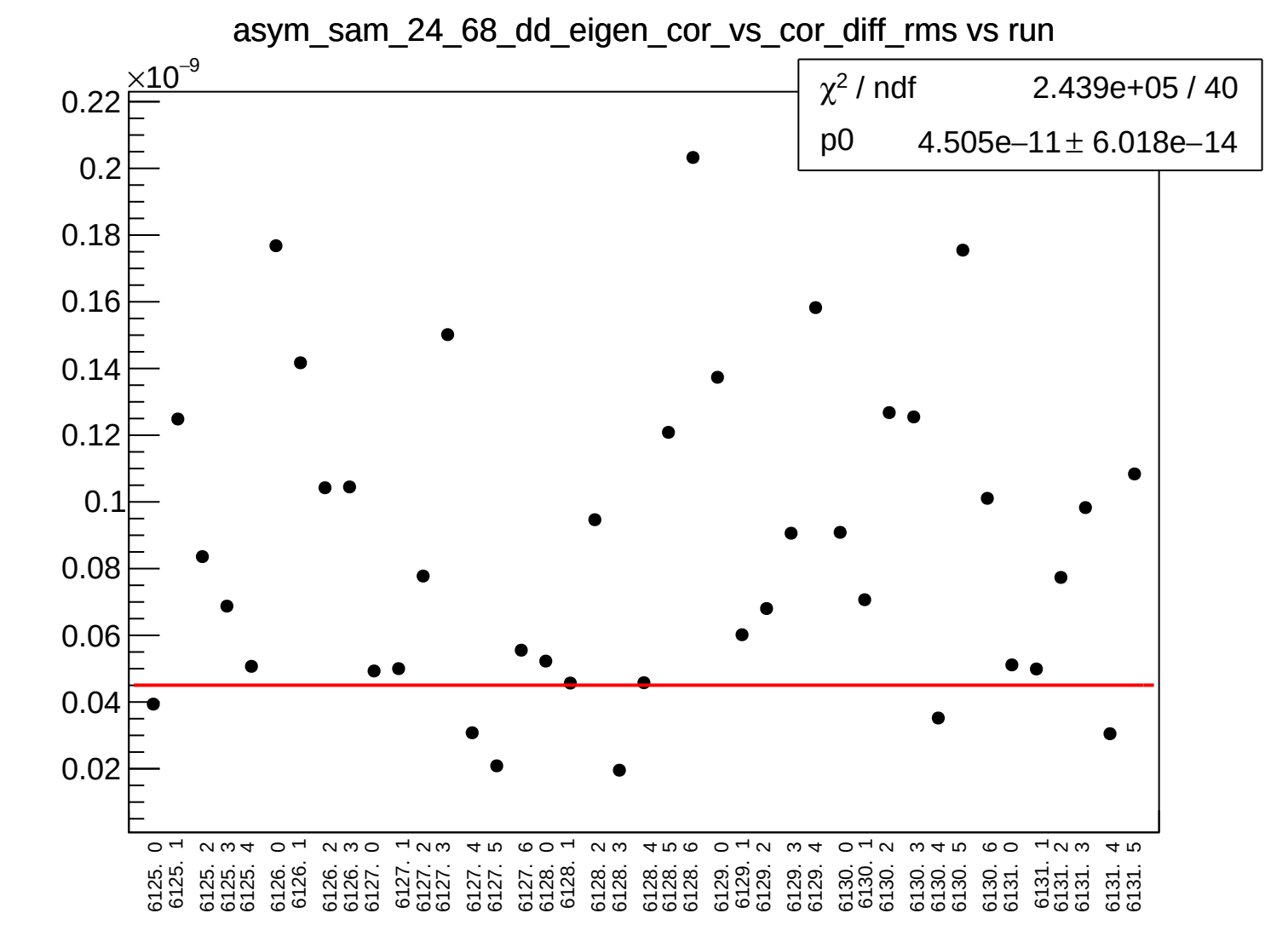

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.93 / 40
p0 −0.04294 ± 0.06372
pull
Entries 41
Mean 445.7
Std Dev 0

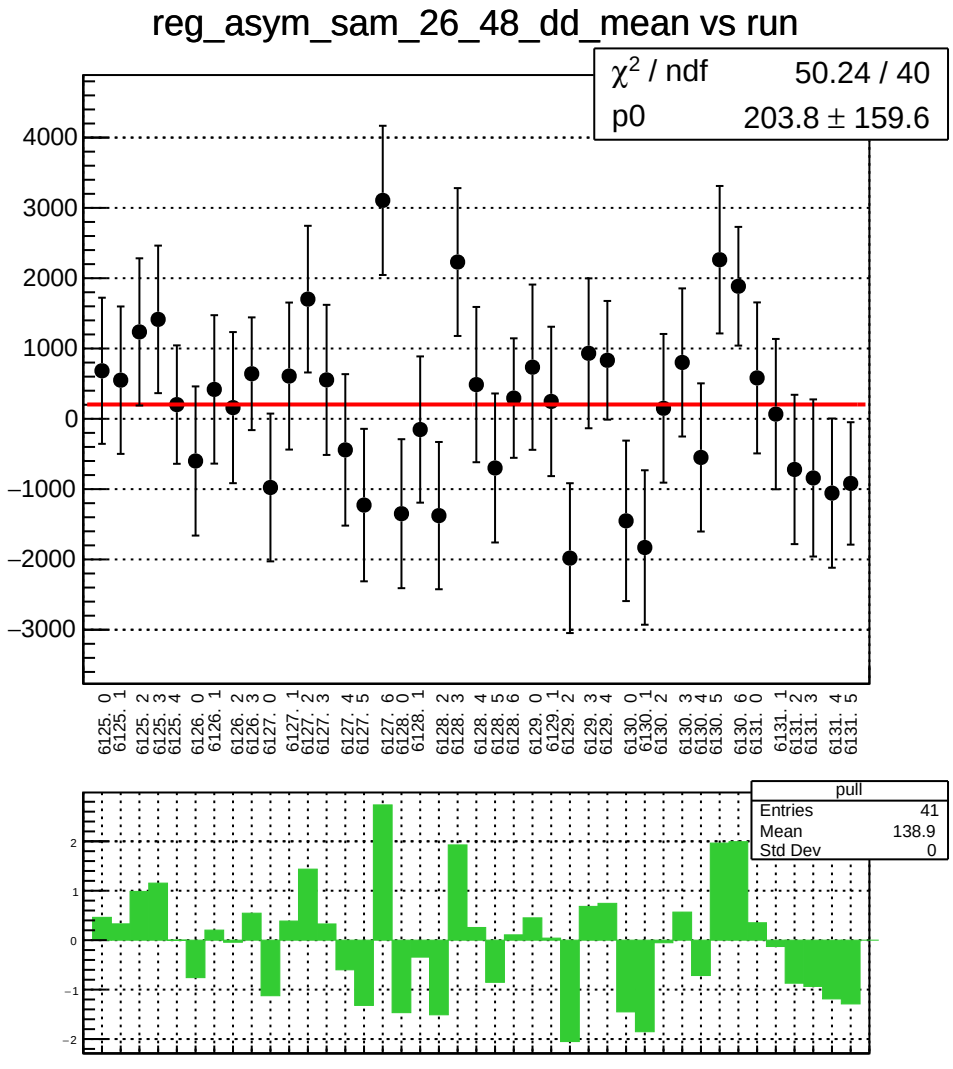

pull1D
Entries 41
Mean 0.0009058
Std Dev 0.8544

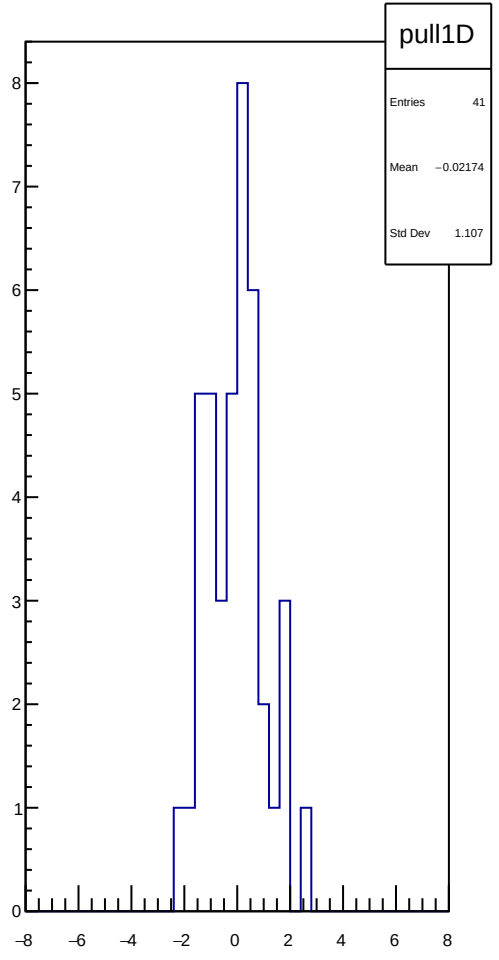

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4190 / 40
p0 40.3 ± 0.04505
46
44
42
40
38
36
34
32
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

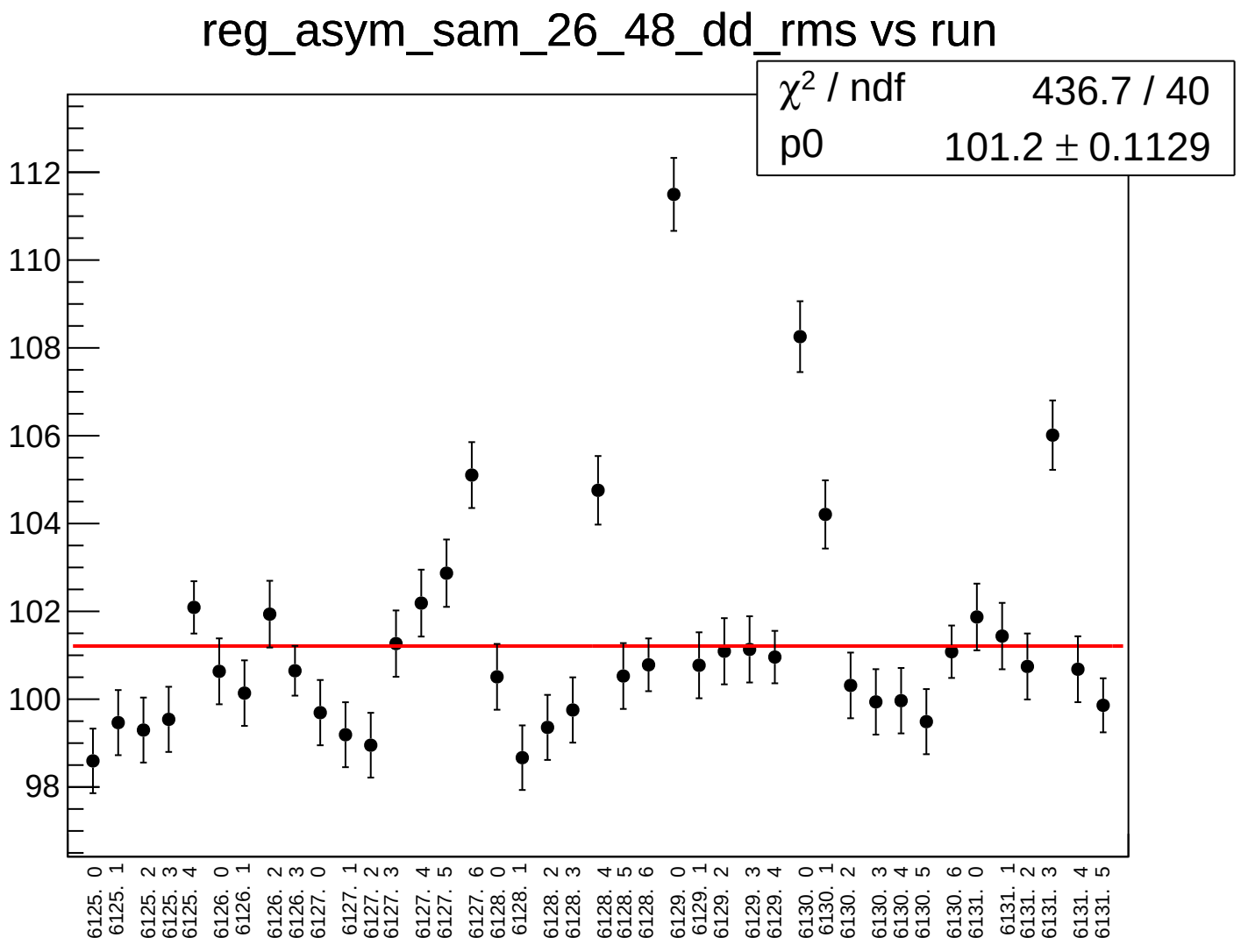

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.63 / 40
p0 −3.46e−14 ± 8.511e−14
4
2
0
−2
−4
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 11.51
Std Dev 13.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

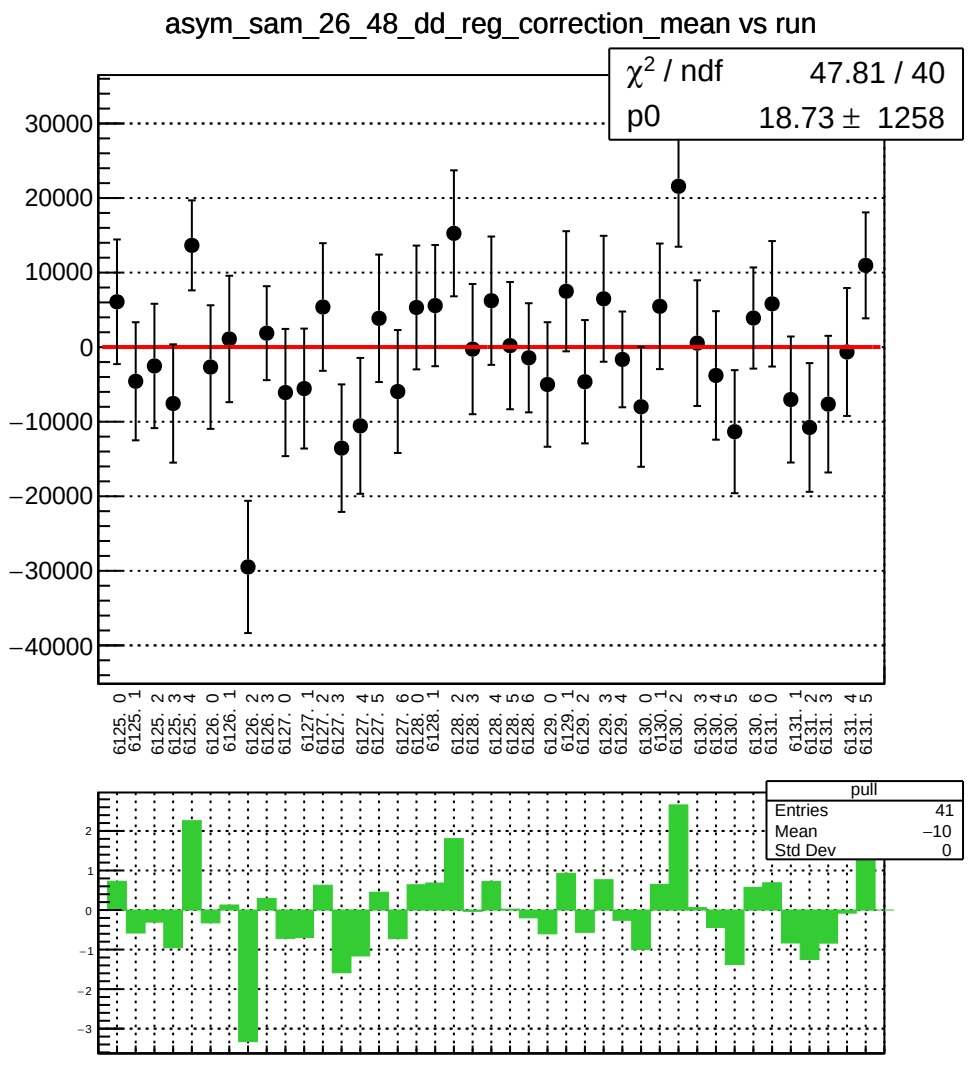

pull1D
Entries 41
Mean −0.0596
Std Dev 0.9304
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

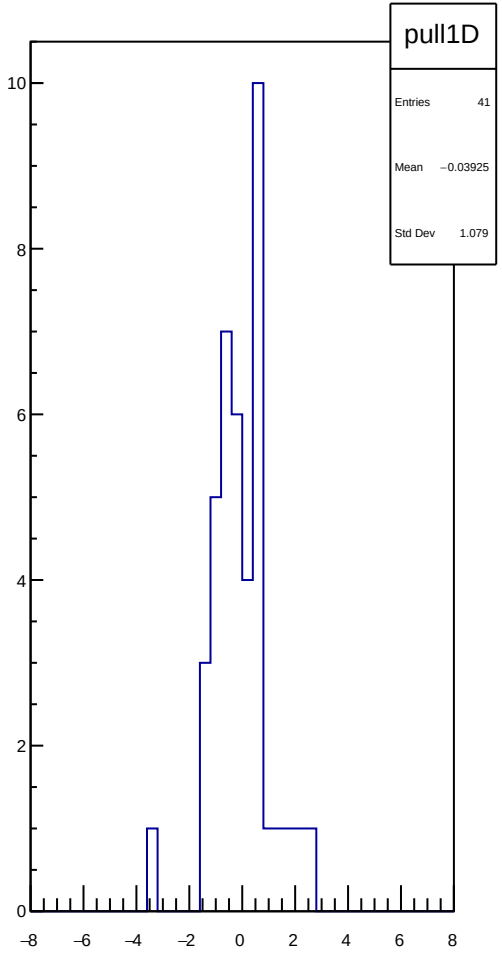

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.439e+05 / 40
p0 4.505e−11 ± 6.018e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

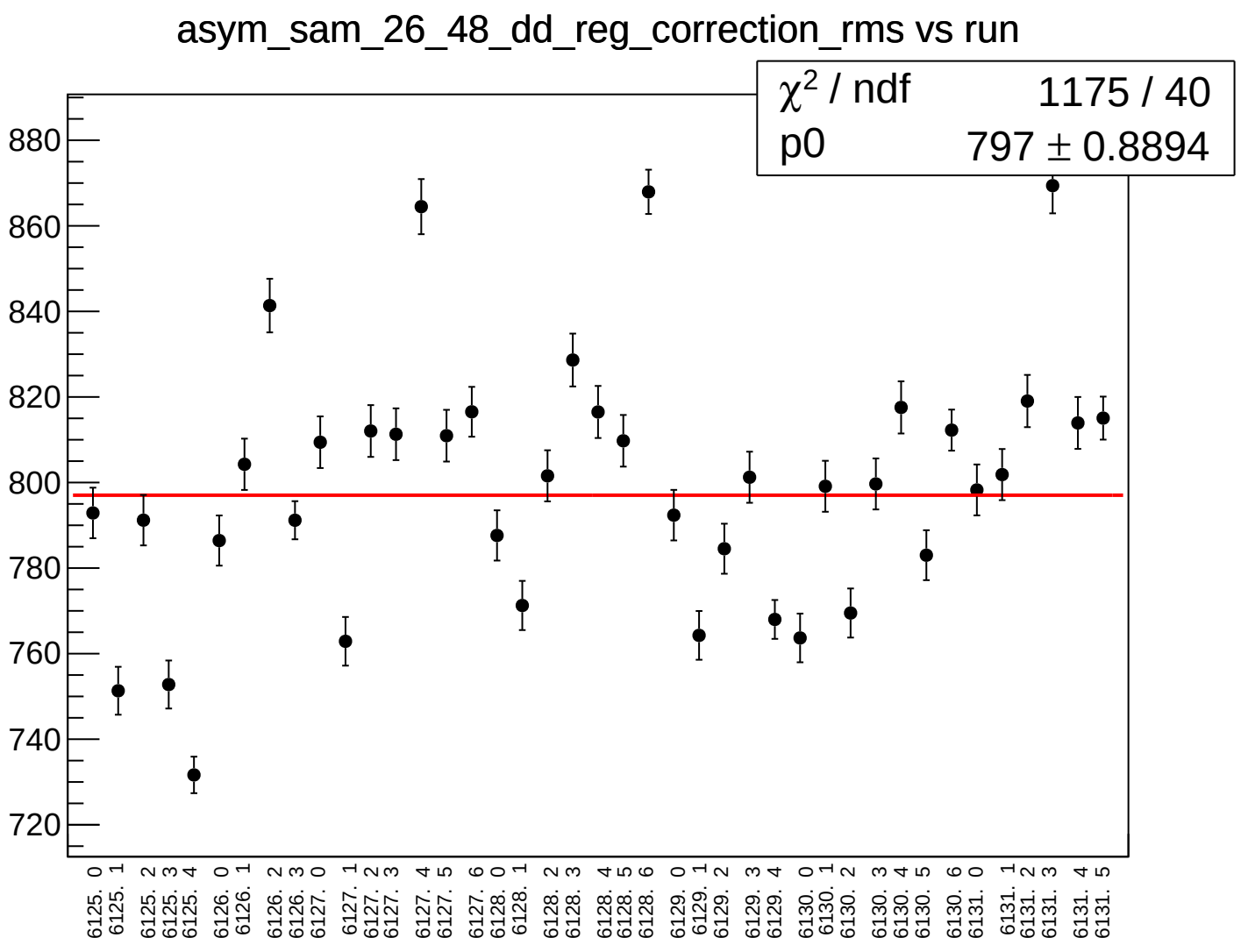

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 50.24 / 40
p0 203.8 ± 159.6
4000
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 138.9
Std Dev 0
2
1
0
−1
−2

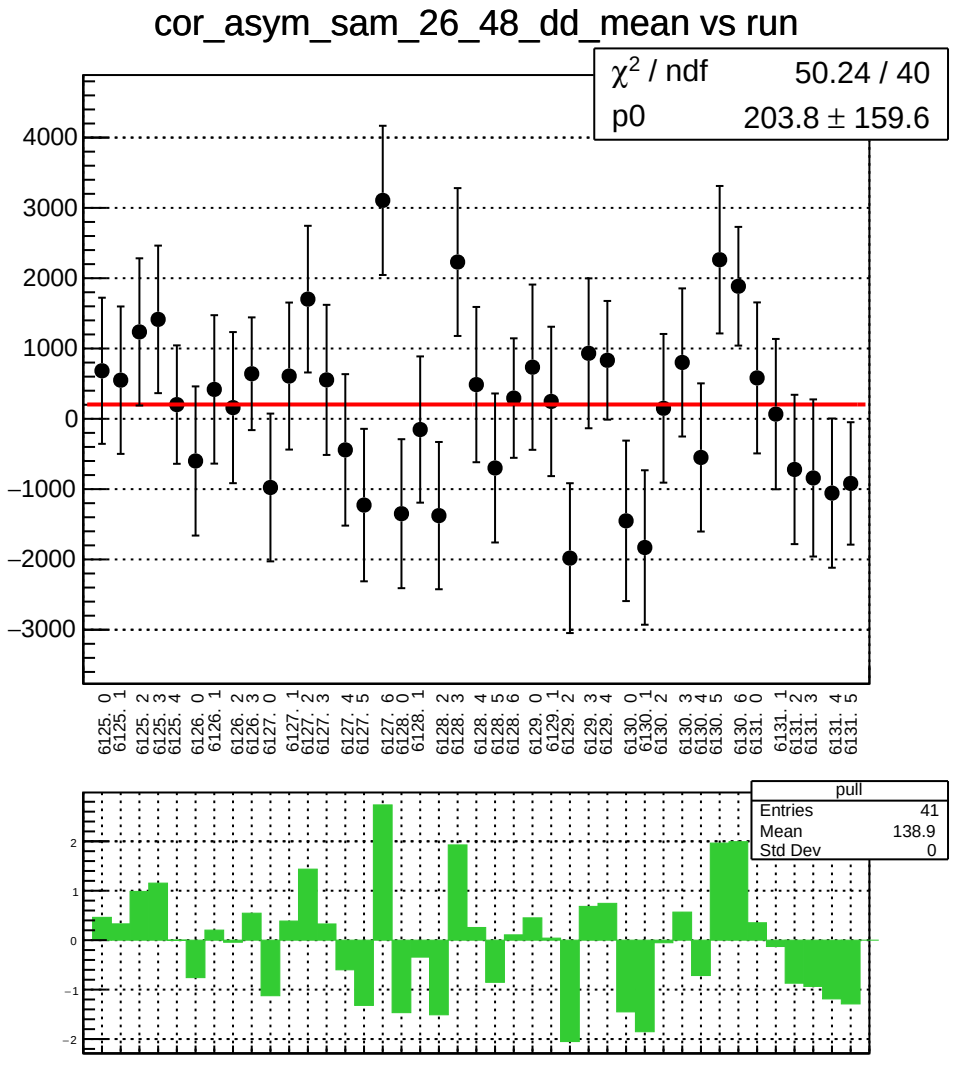

pull1D
Entries 41
Mean −0.02174
Std Dev 1.107
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

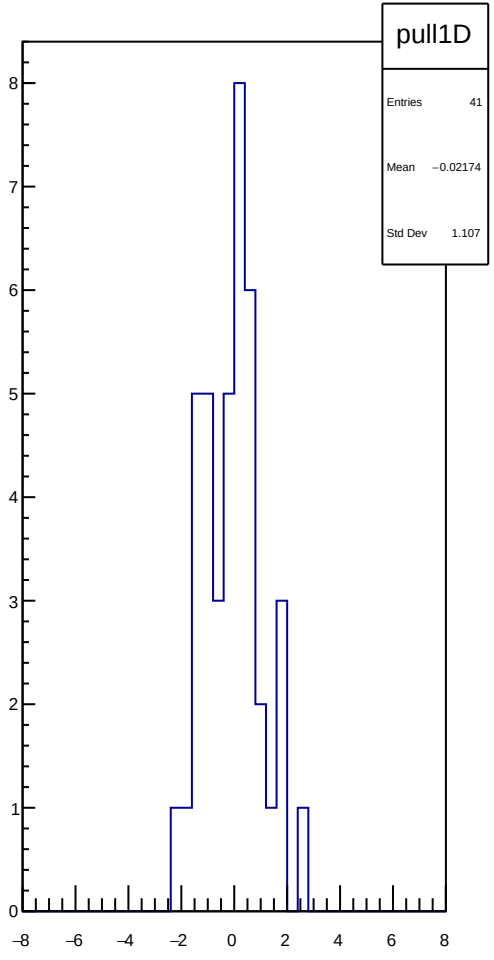

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 436.7 / 40
p0 101.2 ± 0.1129
112
110
108
106
104
102
100
98
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

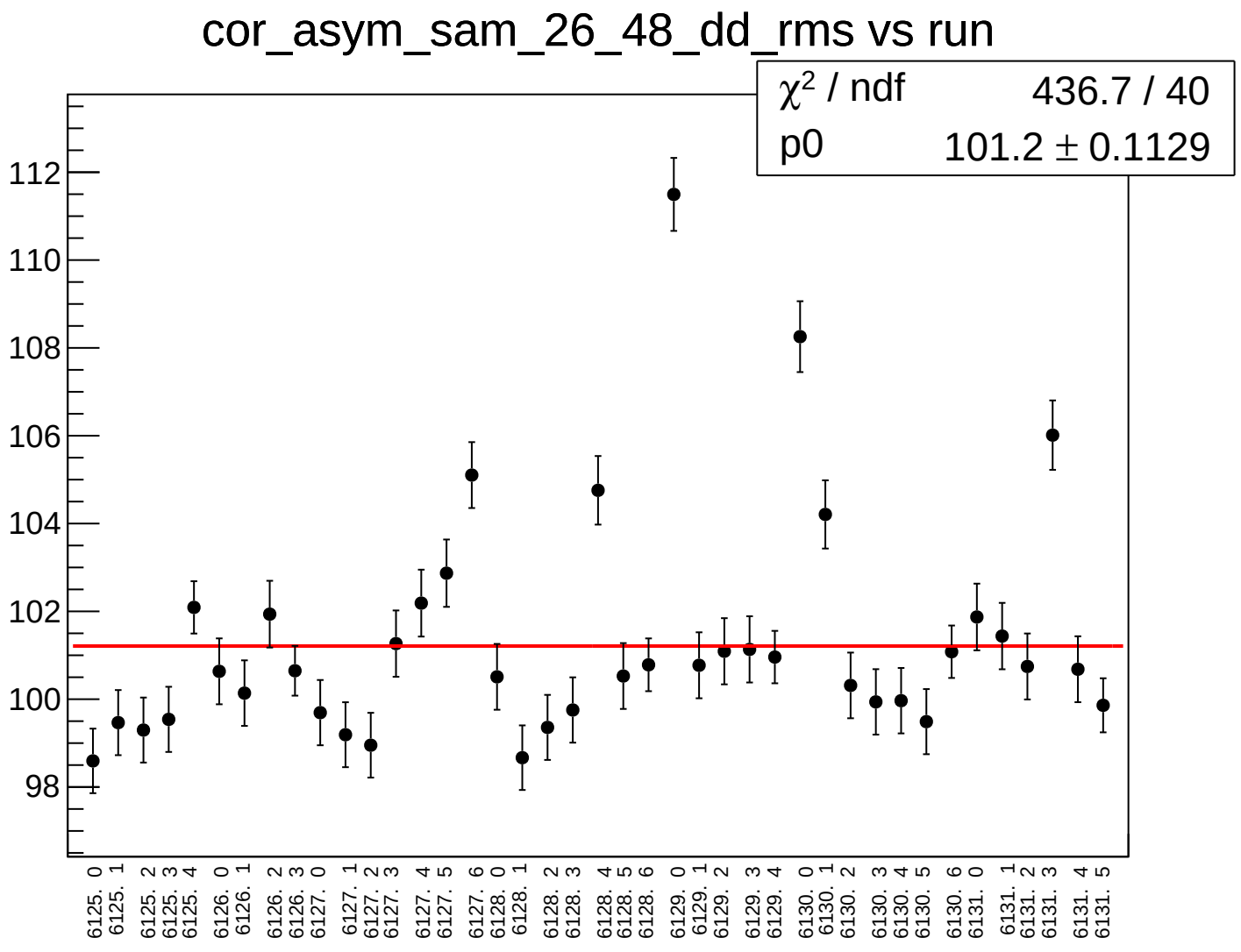

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 47.81 / 40
p0 18.73 ± 1258
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −10
Std Dev 0
2
1
0
−1
−2
−3

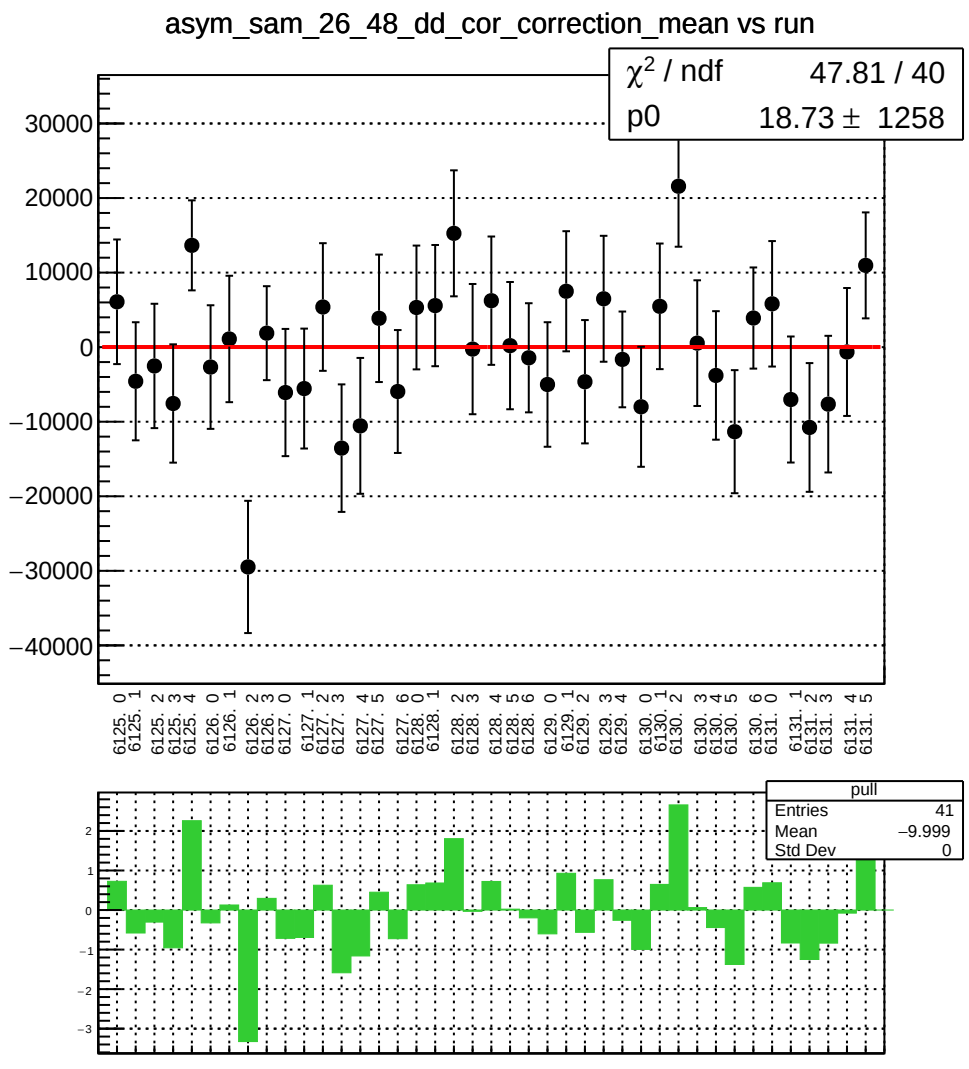

pull1D
Entries 41
Mean −0.03925
Std Dev 1.079
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

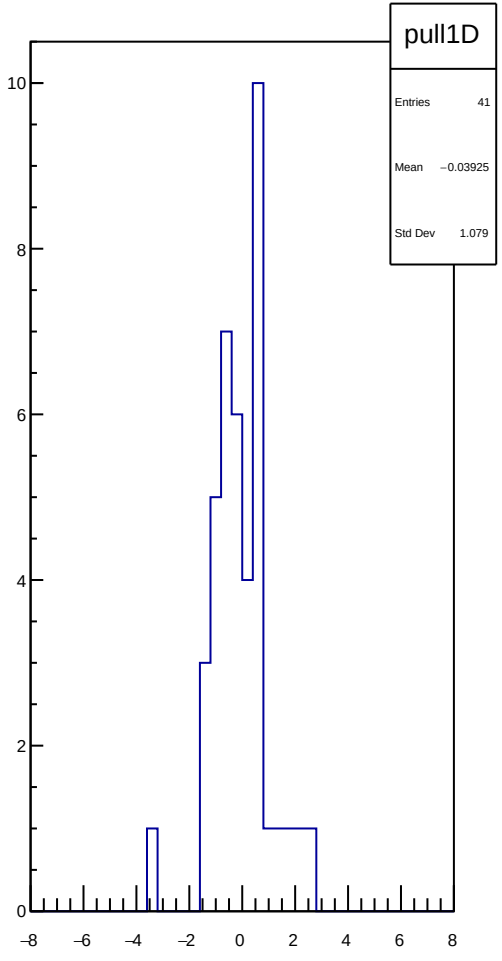

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 1175 / 40
p0 797 ± 0.8894
880
860
840
820
800
780
760
740
720
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

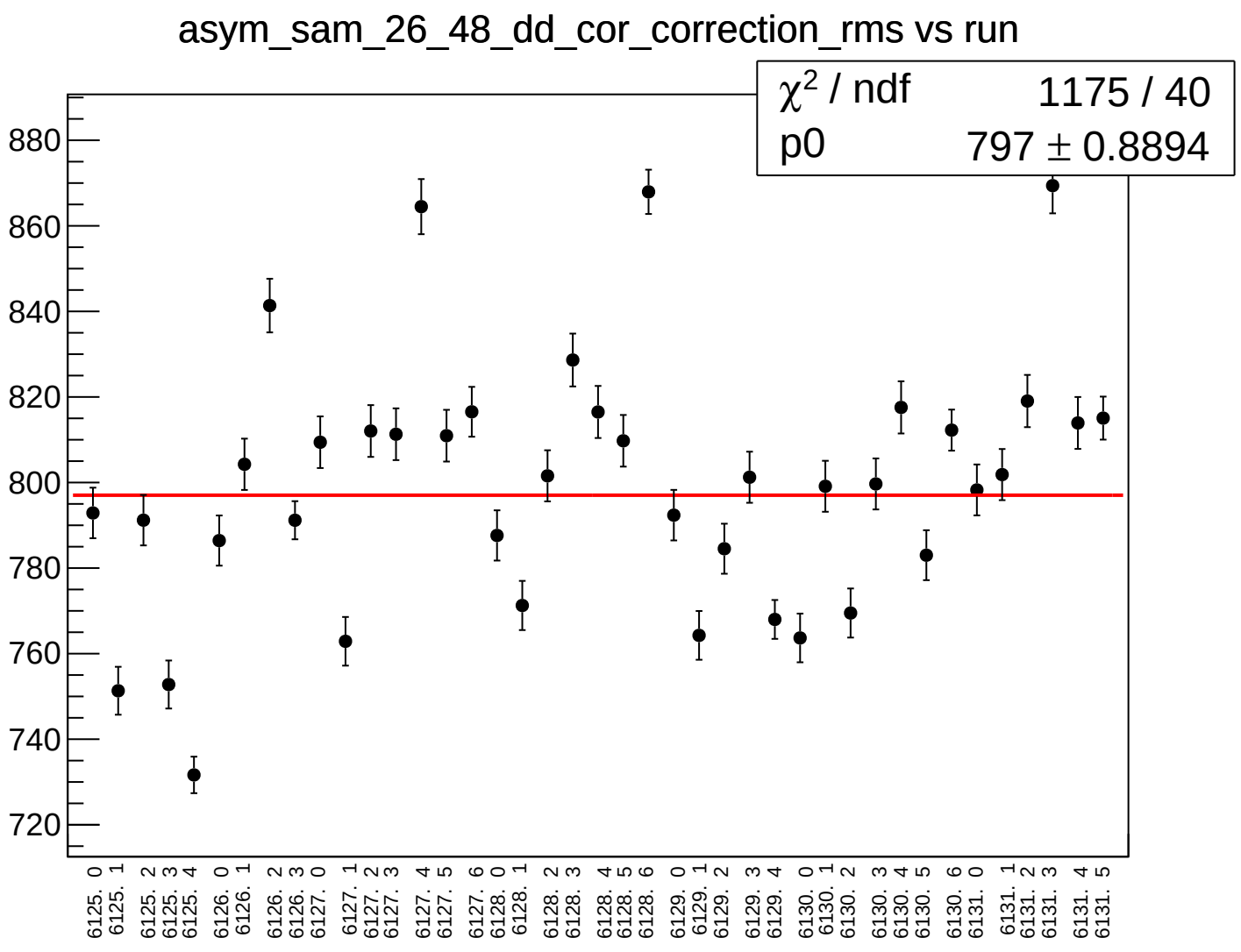

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 50.24 / 40
p0 203.8 ± 159.6
pull
Entries 41
Mean 138.9
Std Dev 0


pull1D
Entries 41
Mean −0.02174
Std Dev 1.107


cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 436.7 / 40
p0 101.2 ± 0.1129
112
110
108
106
104
102
100
98
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 47.81 / 40
p0 18.73 ± 1258
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −9.999
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean −0.03925
Std Dev 1.079
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 1175 / 40
p0 797 ± 0.8894
880
860
840
820
800
780
760
740
720
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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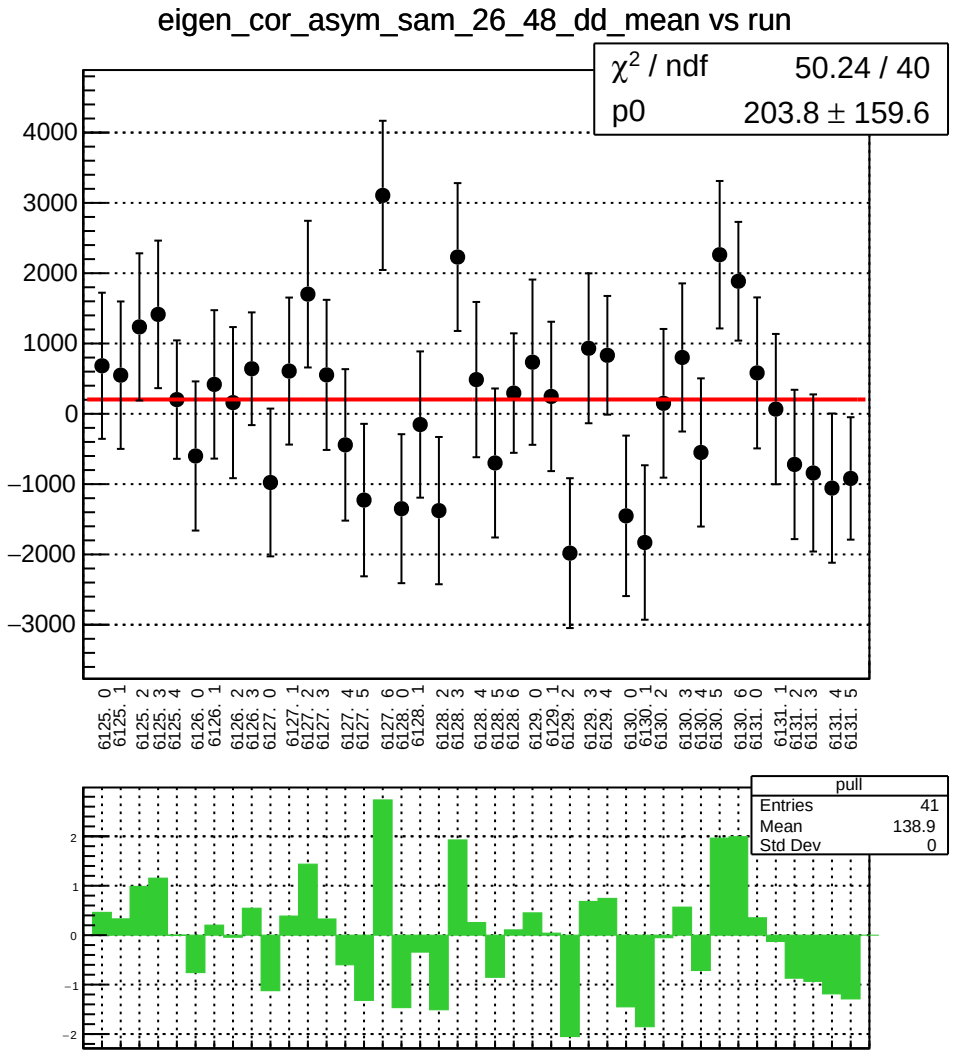
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 50.24 / 40
p0 203.8 ± 159.6
4000
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
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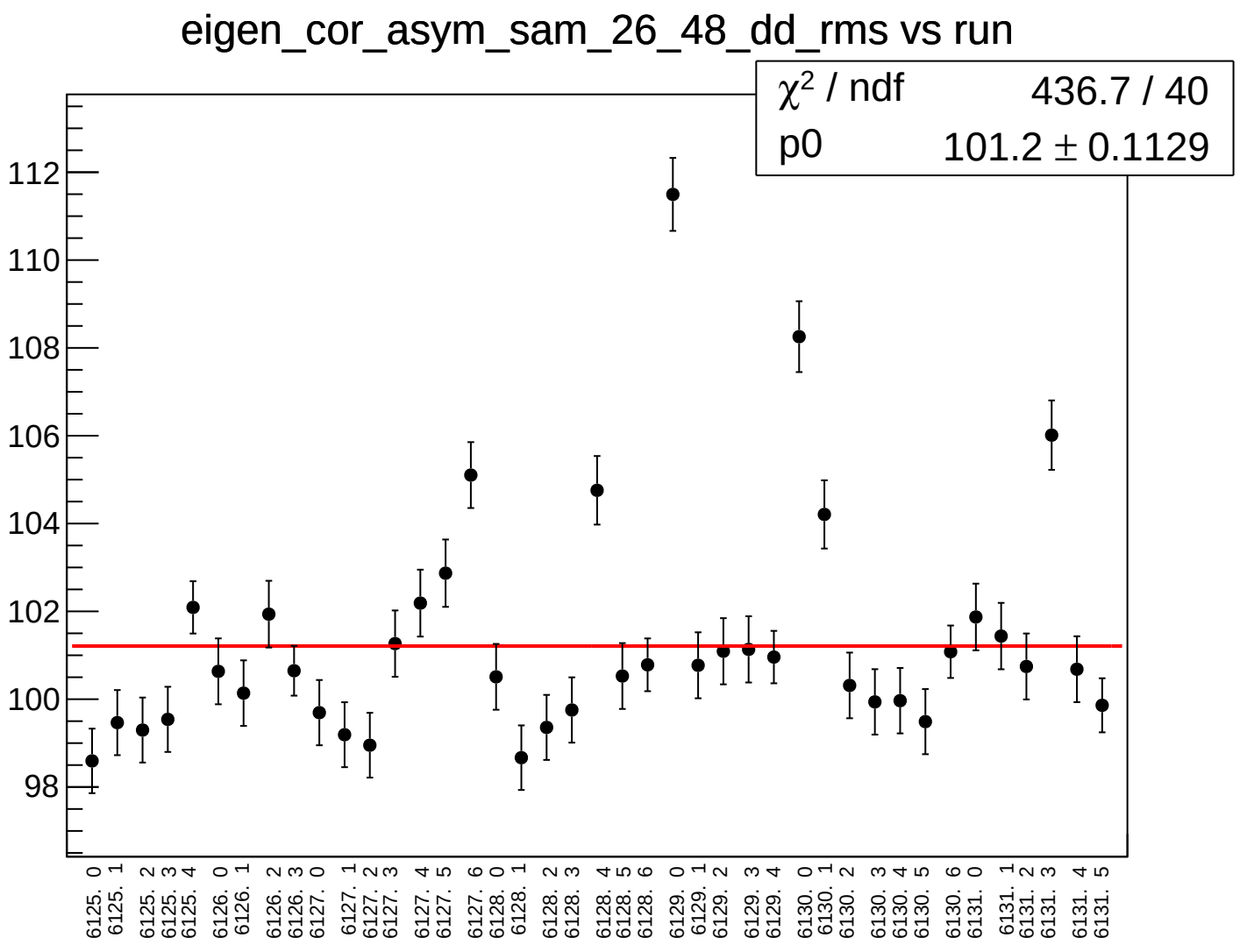
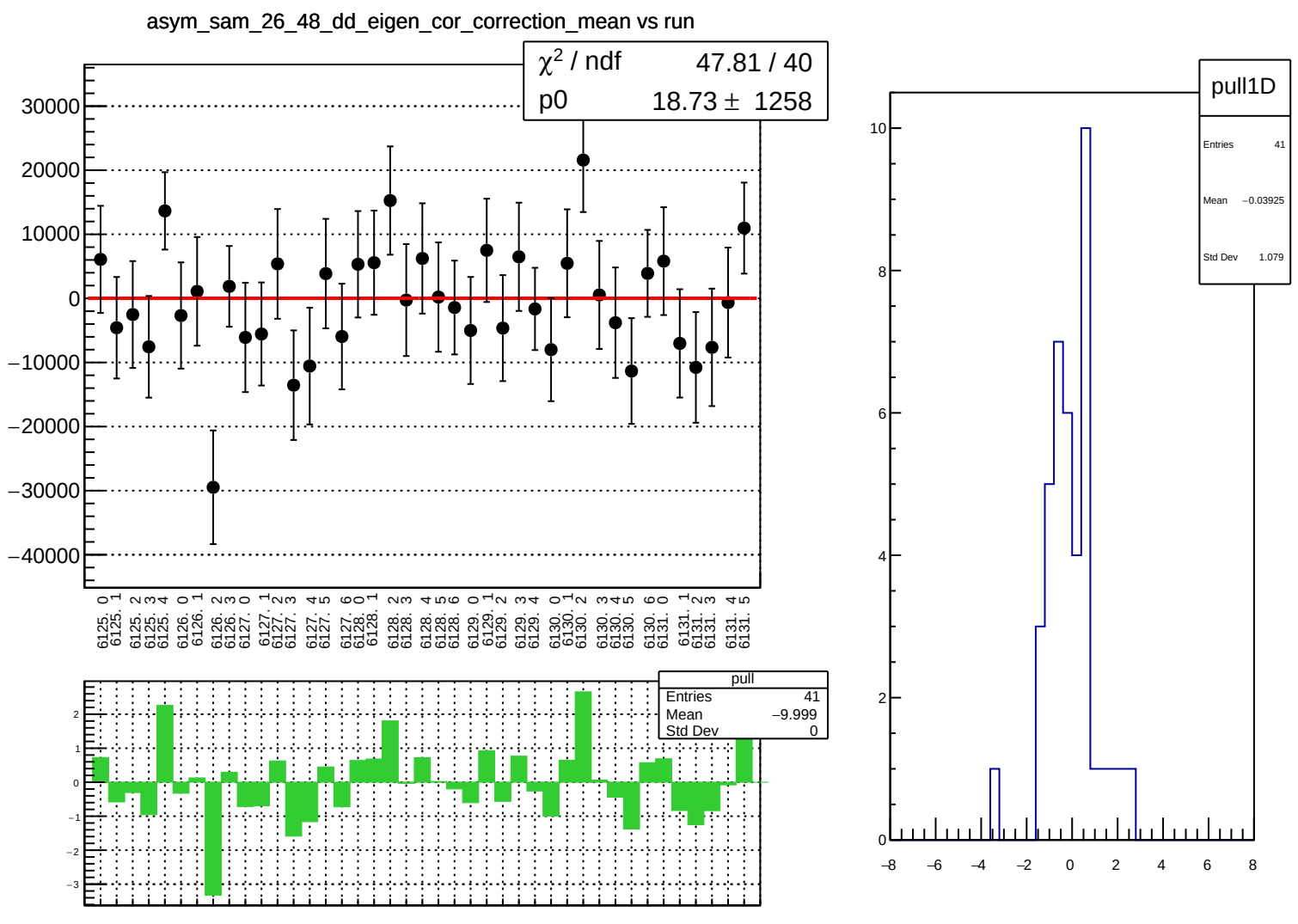
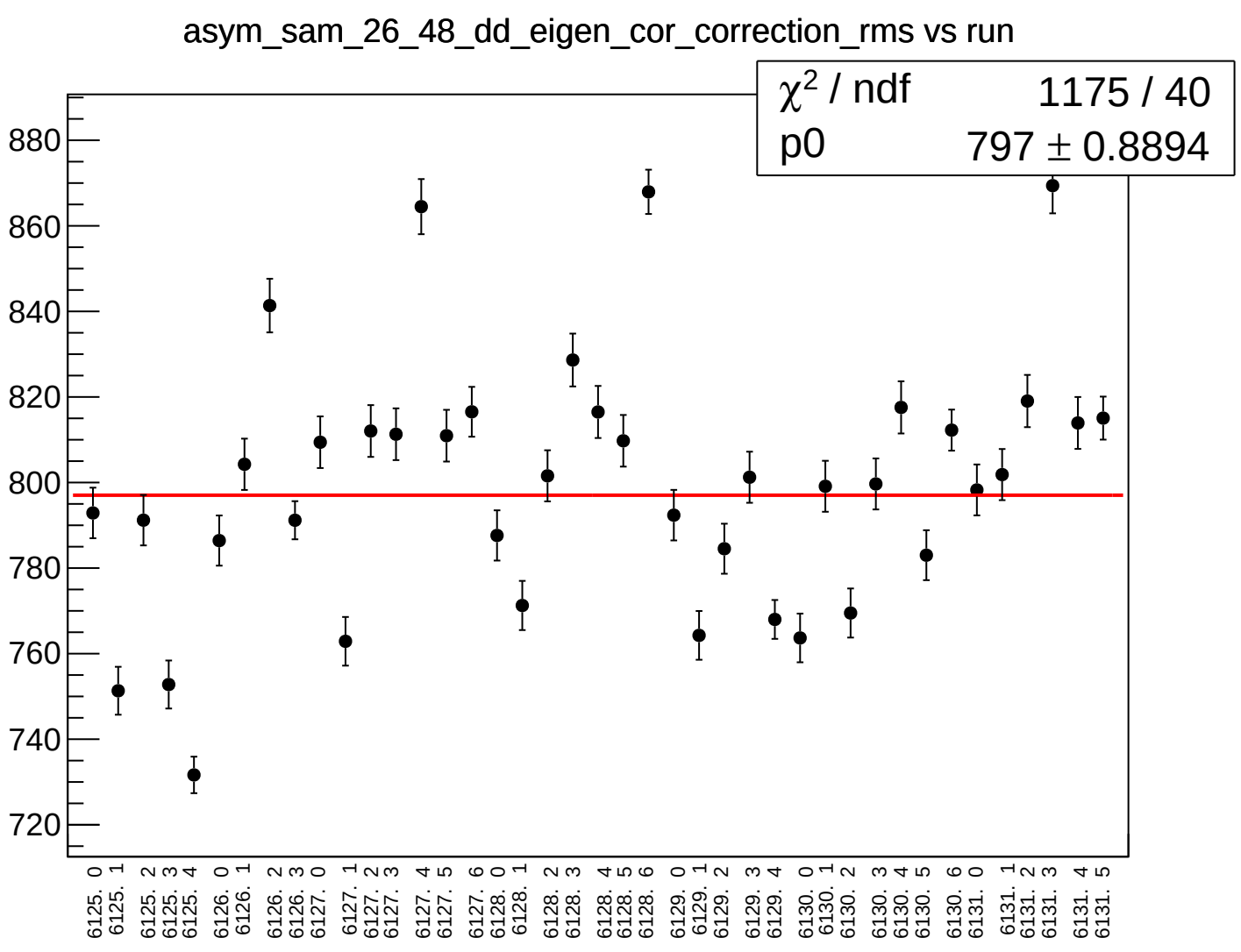
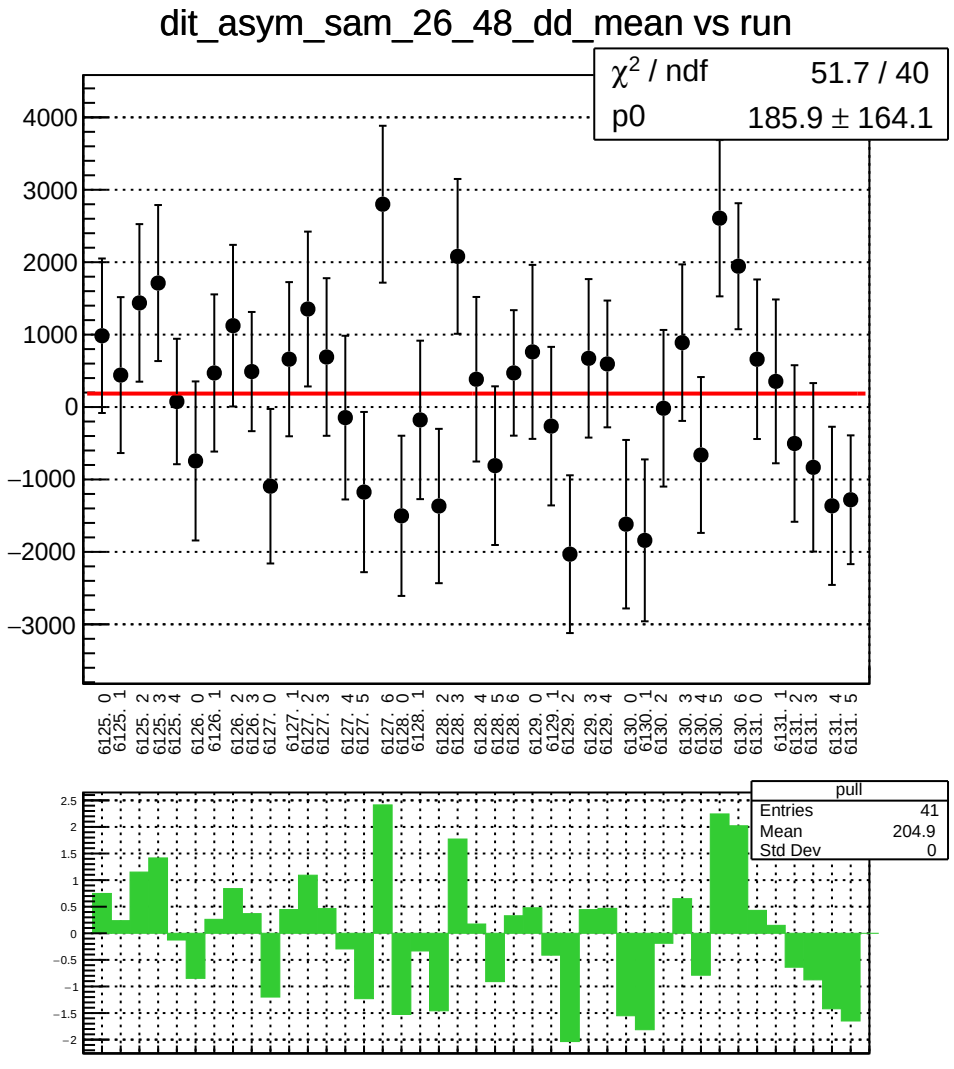
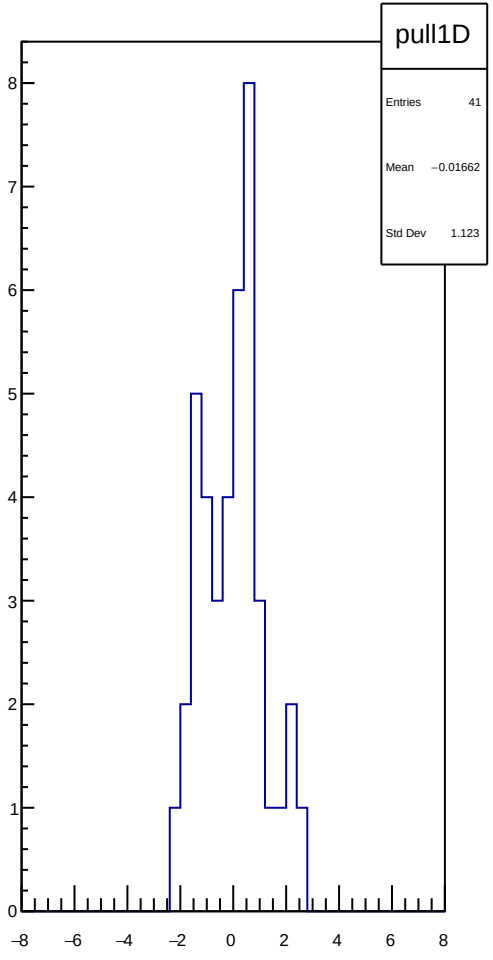
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 138.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.02174
Std Dev 1.107
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

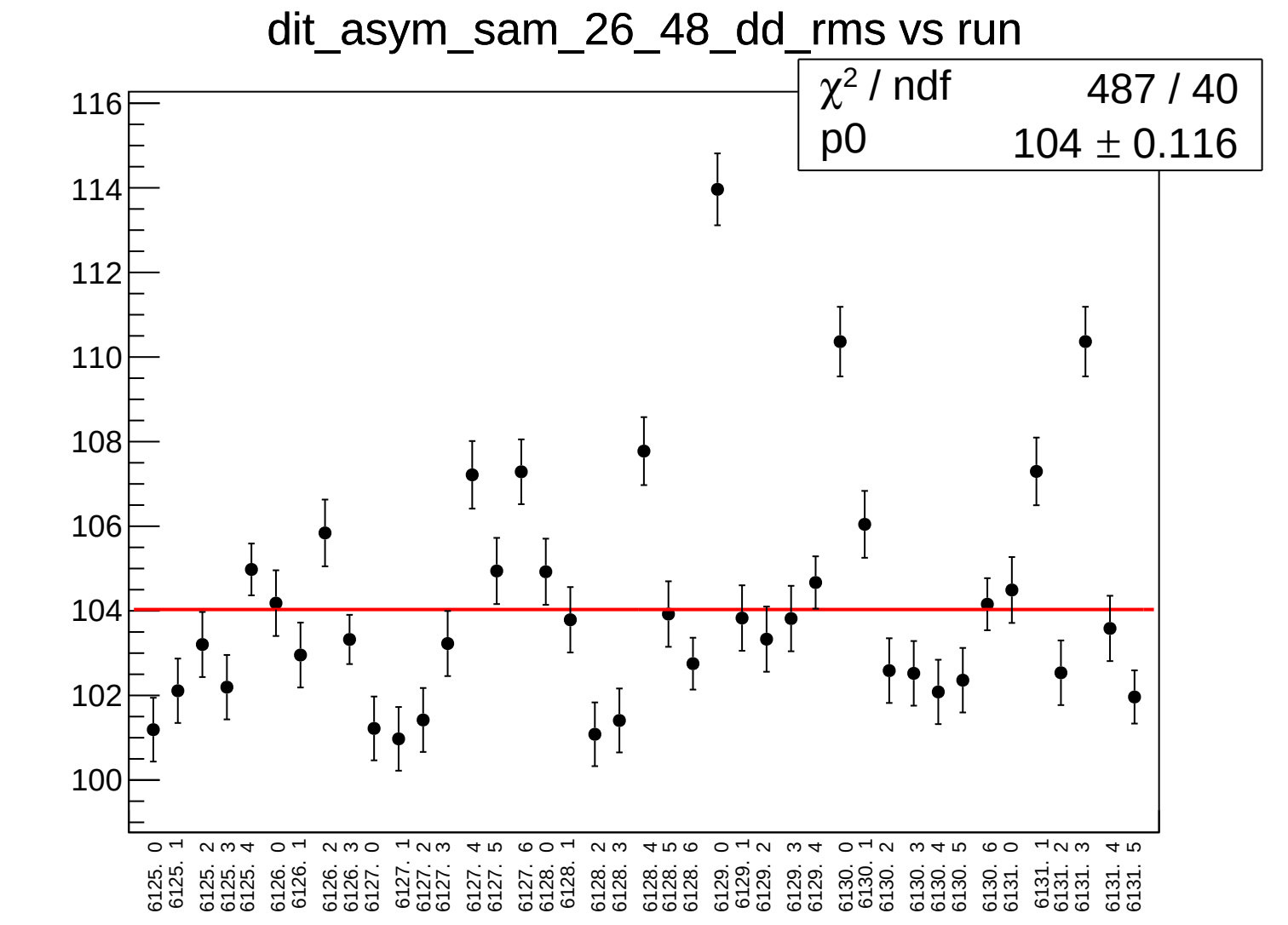

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 436.7 / 40
p0 101.2 ± 0.1129
112
110
108
106
104
102
100
98
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

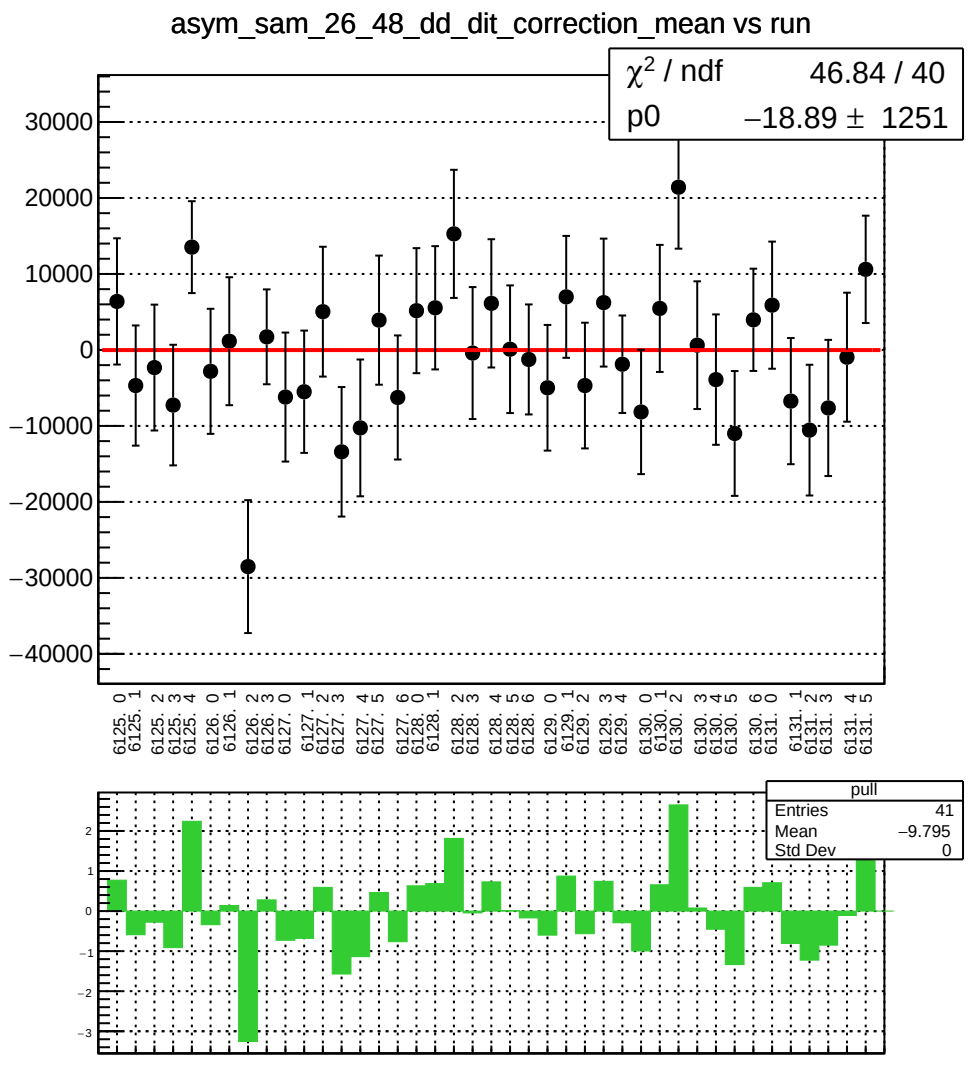

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 47.81 / 40
p0 18.73 ± 1258
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −9.999
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean −0.03925
Std Dev 1.079
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

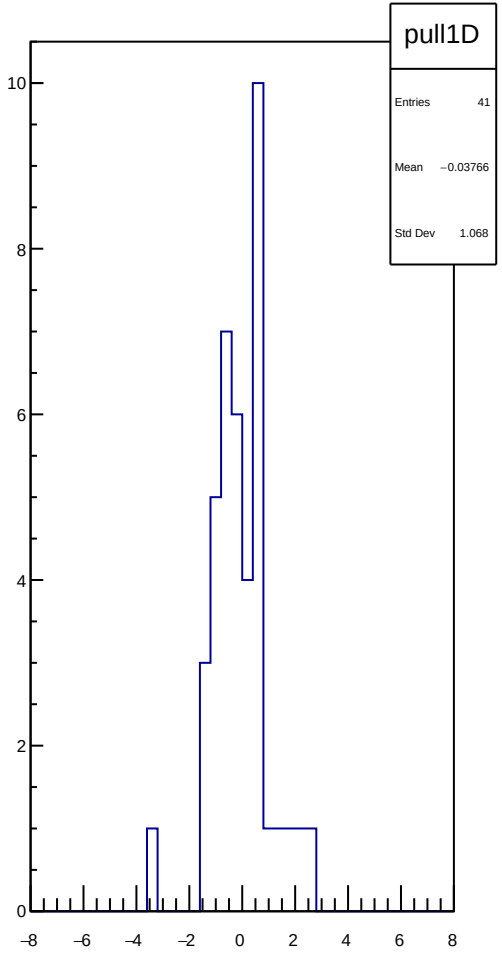

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1175 / 40
p0 797 ± 0.8894
880
860
840
820
800
780
760
740
720
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

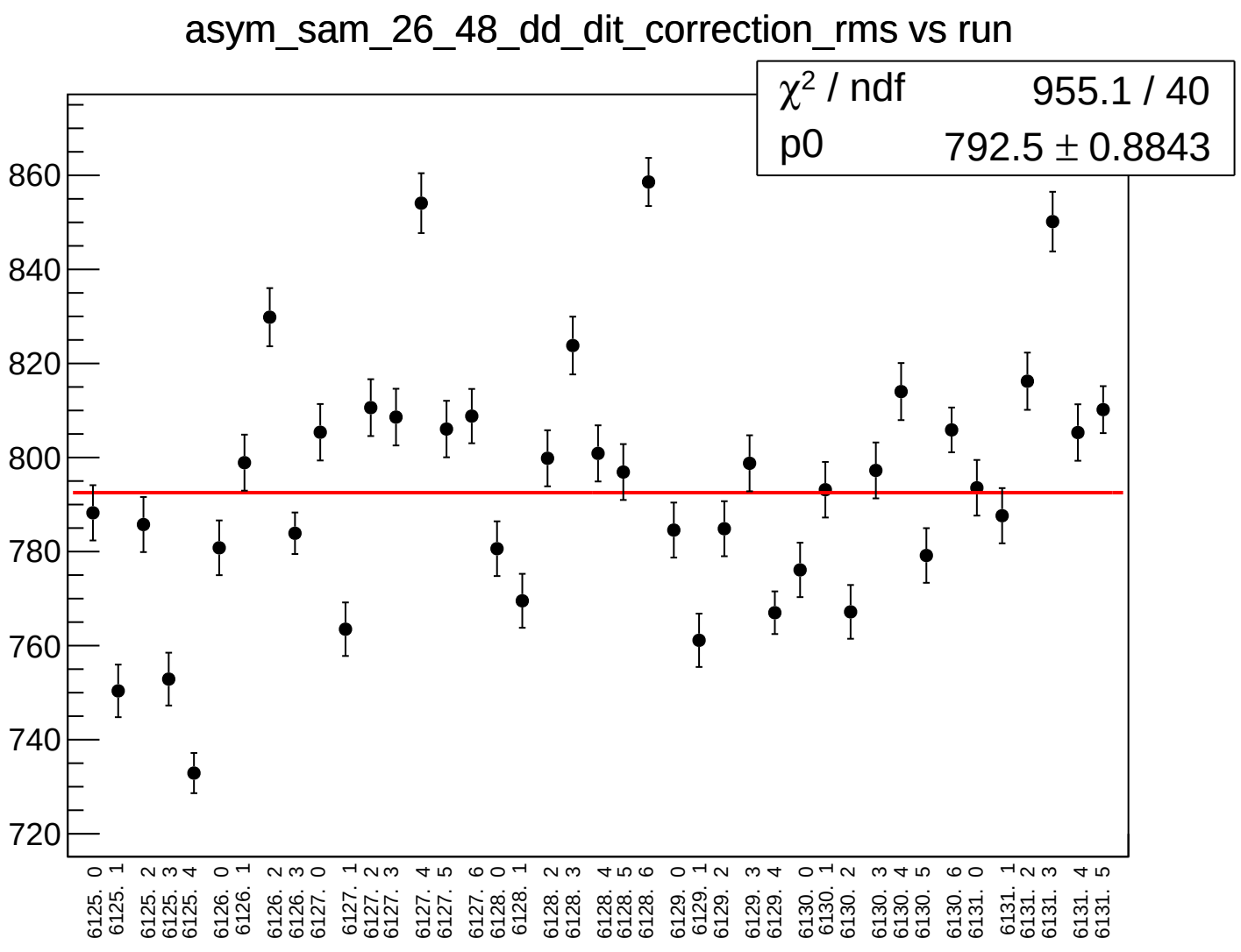

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 51.7 / 40
p0 185.9 ± 164.1
4000
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 204.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

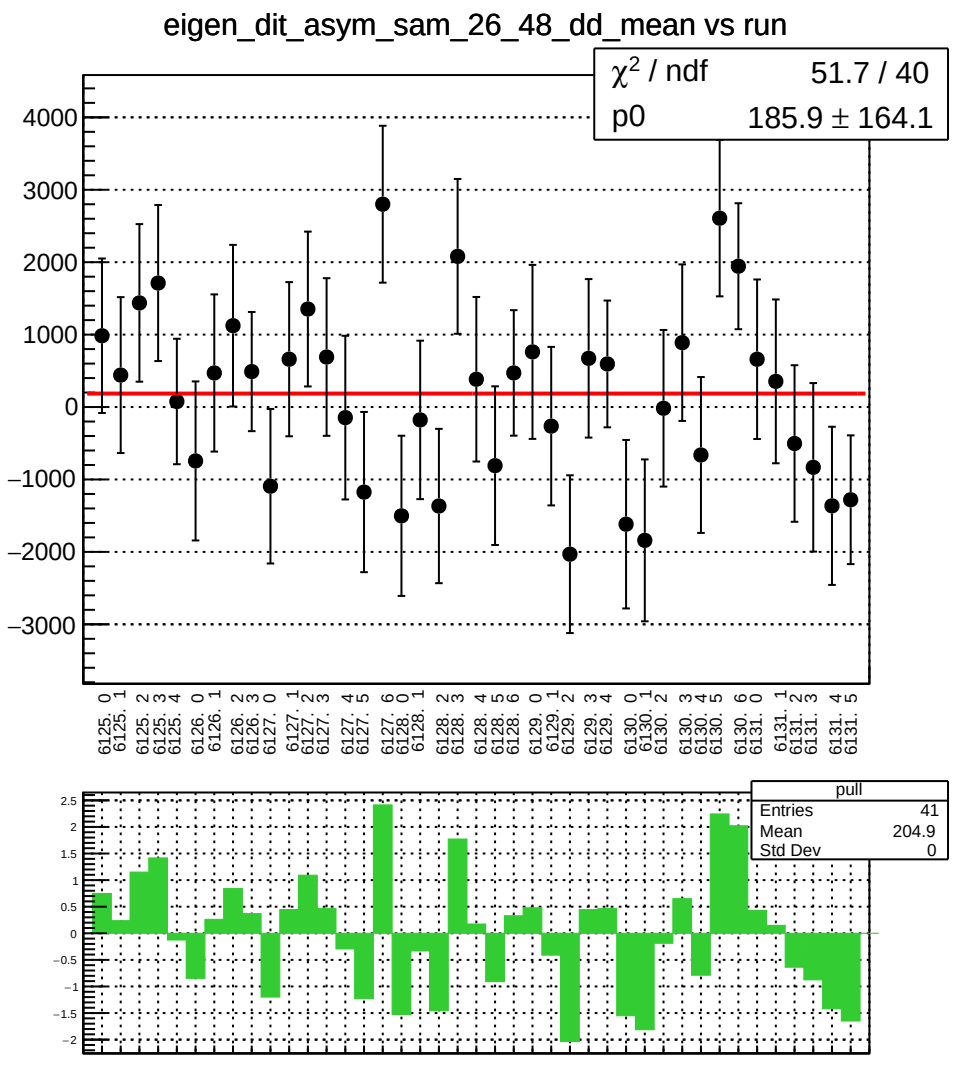

pull1D
Entries 41
Mean −0.01662
Std Dev 1.123
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

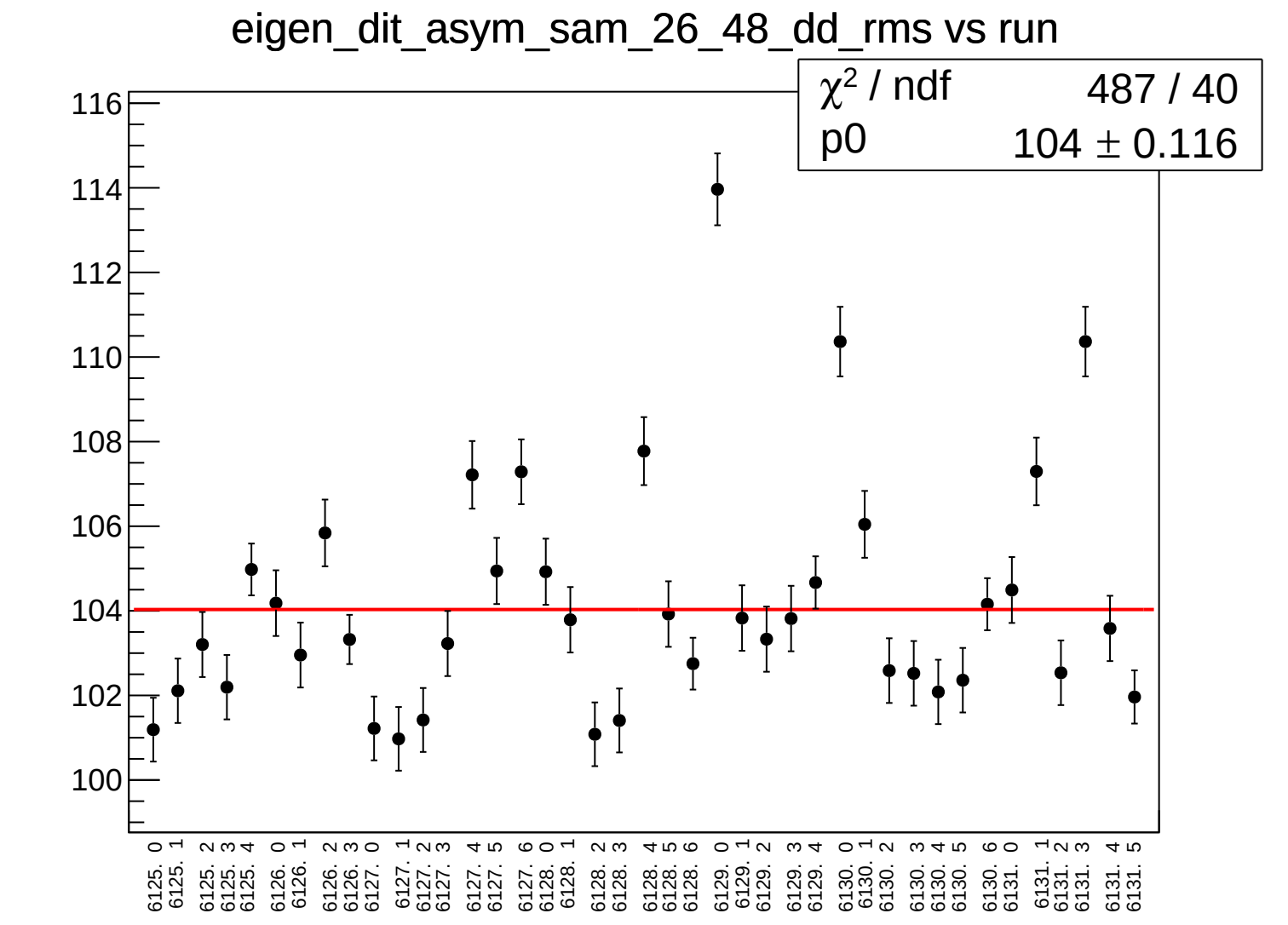

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 487 / 40
p0 104 ± 0.116
116
114
112
110
108
106
104
102
100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

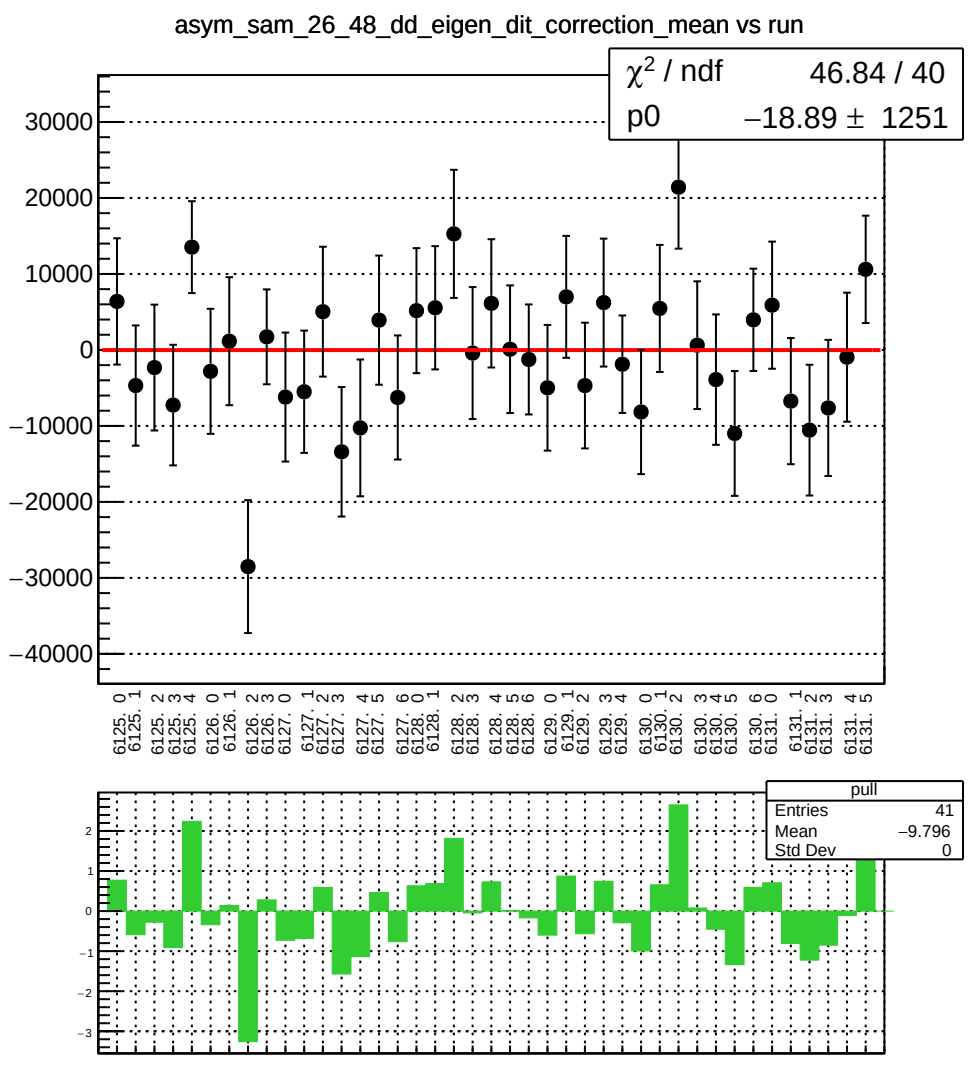

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 46.84 / 40
p0 −18.89 ± 1251
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −9.795
Std Dev 0
2
1
0
−1
−2
−3

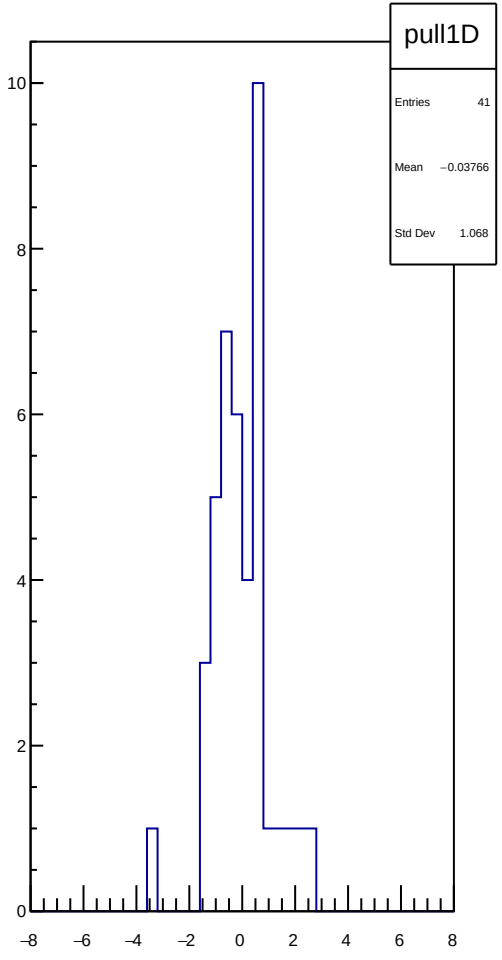

pull1D
Entries 41
Mean −0.03766
Std Dev 1.068
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

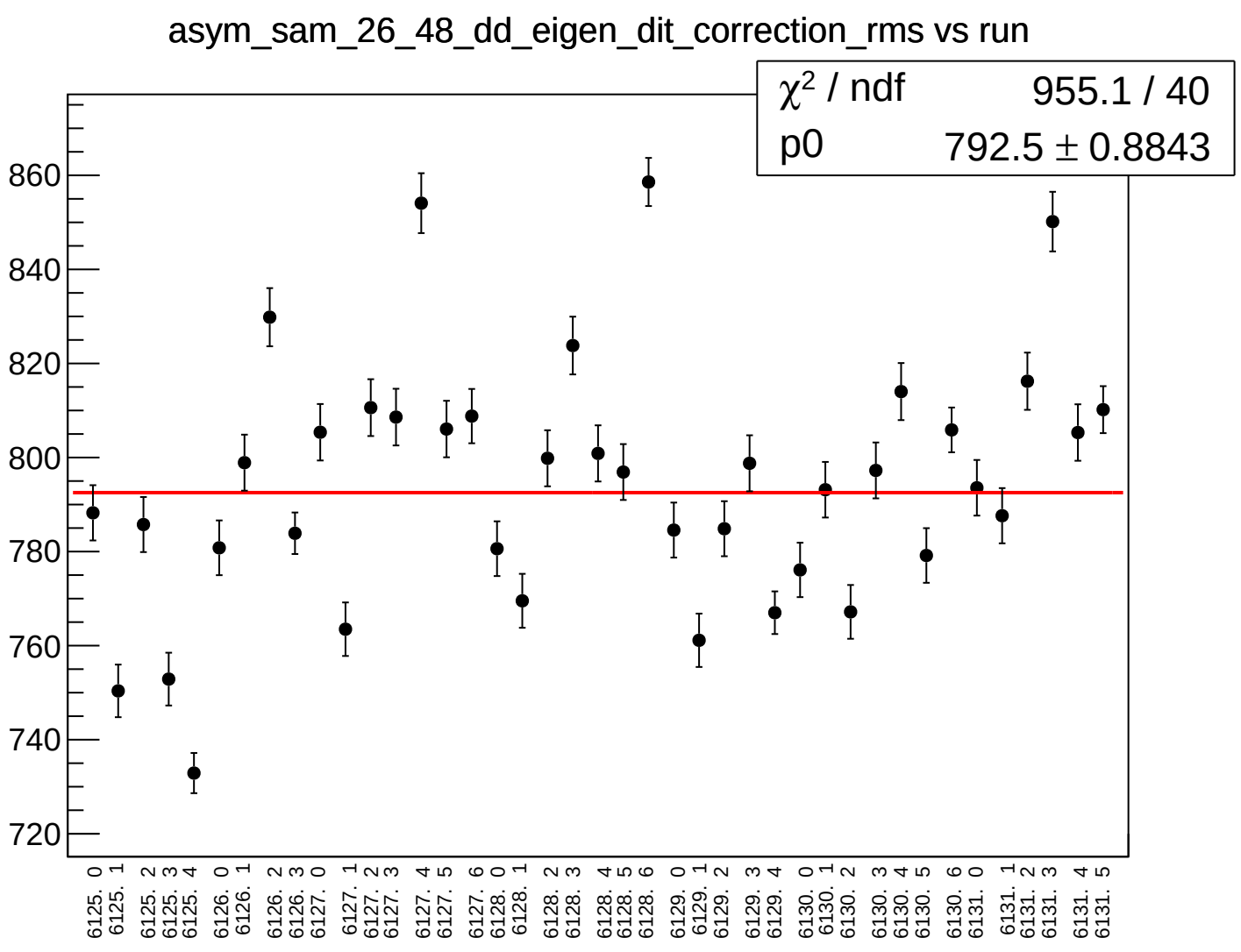

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 955.1 / 40
p0 792.5 ± 0.8843
860
840
820
800
780
760
740
720
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

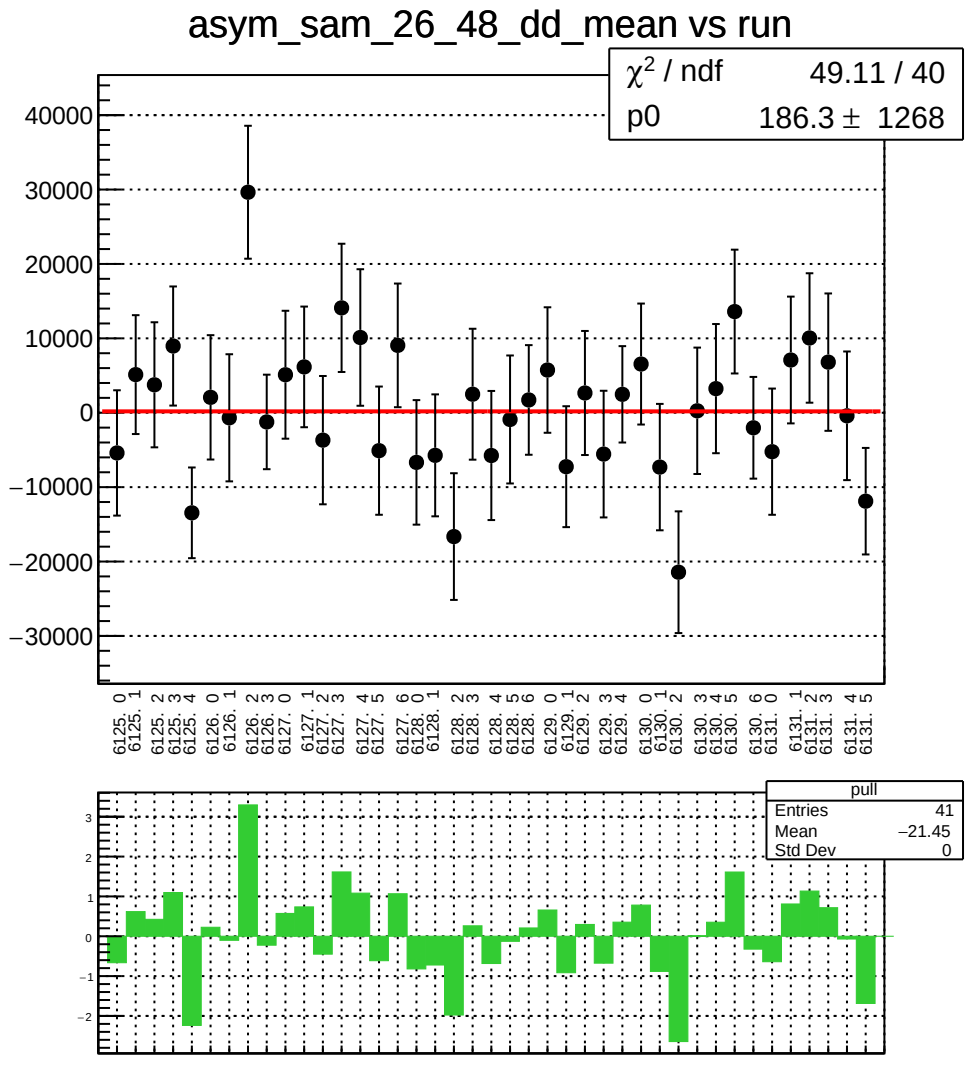

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 51.7 / 40
p0 185.9 ± 164.1
4000
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 204.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.01662
Std Dev 1.123
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

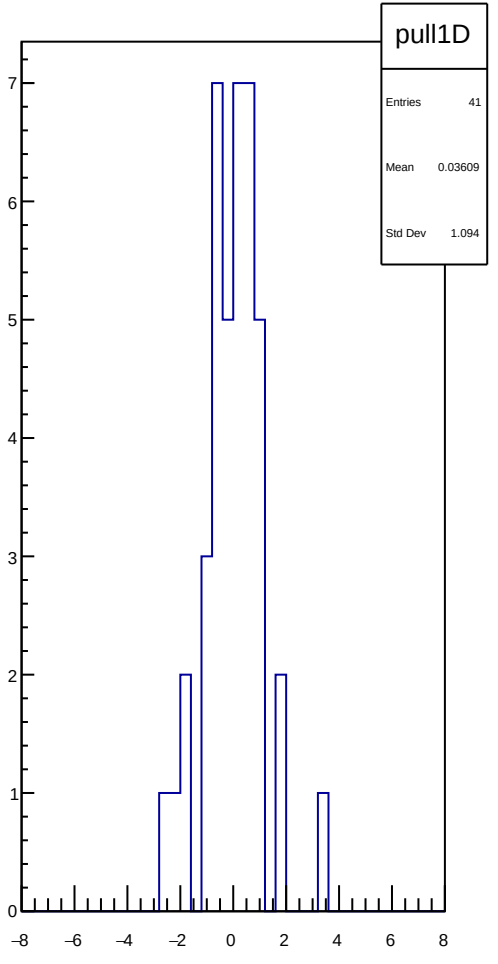

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 487 / 40
p0 104 ± 0.116
116
114
112
110
108
106
104
102
100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

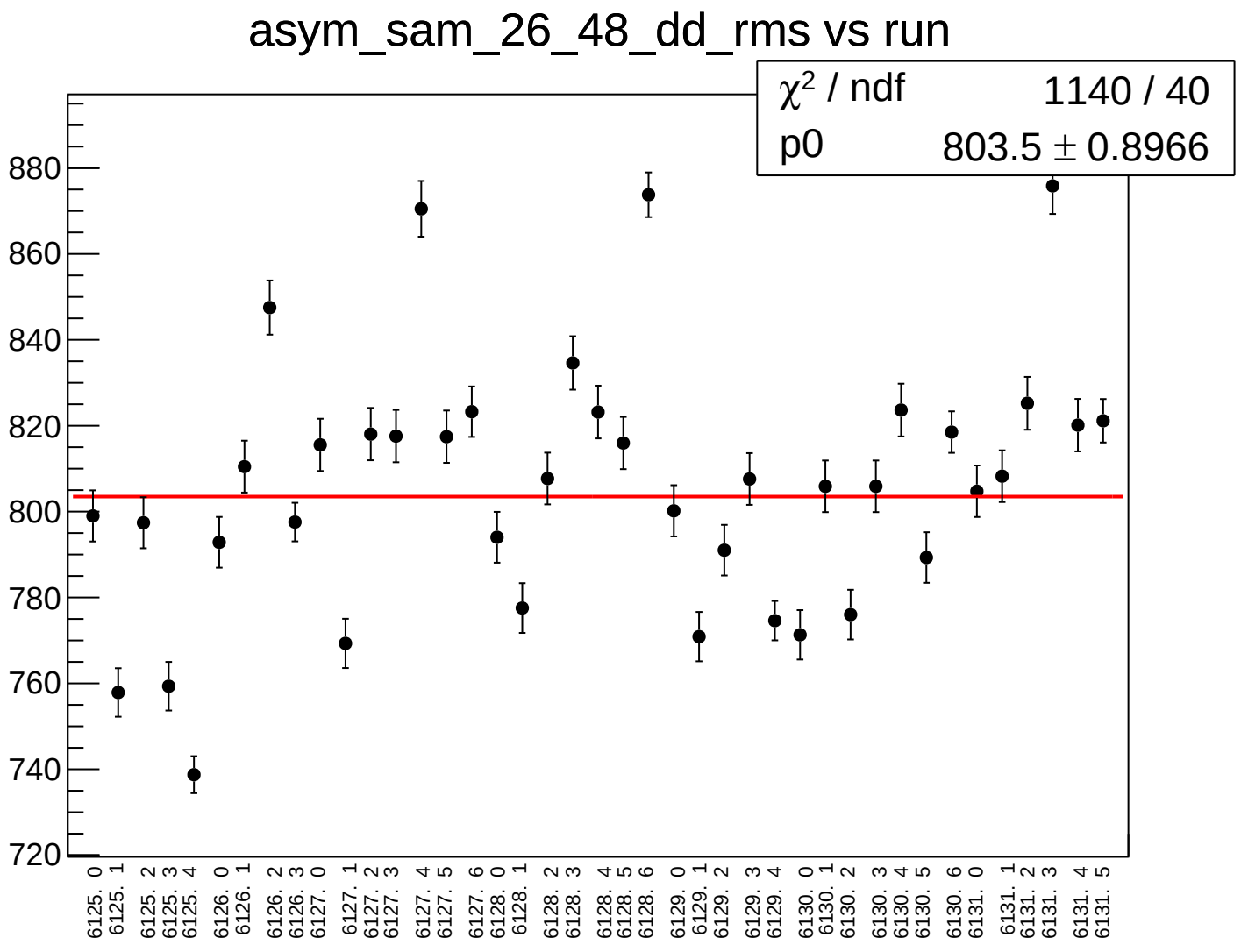

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 46.84 / 40
p0 −18.89 ± 1251
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −9.796
Std Dev 0
2
1
0
−1
−2
−3

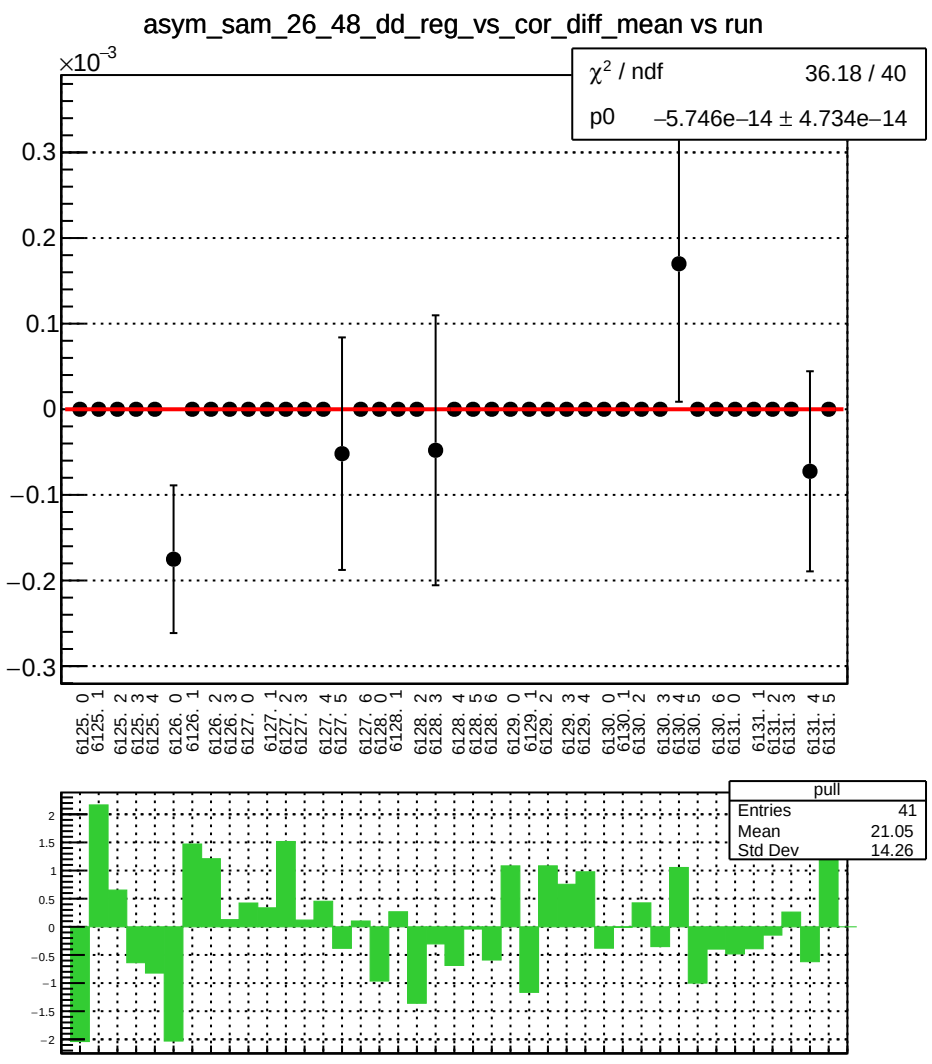

pull1D
Entries 41
Mean −0.03766
Std Dev 1.068
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

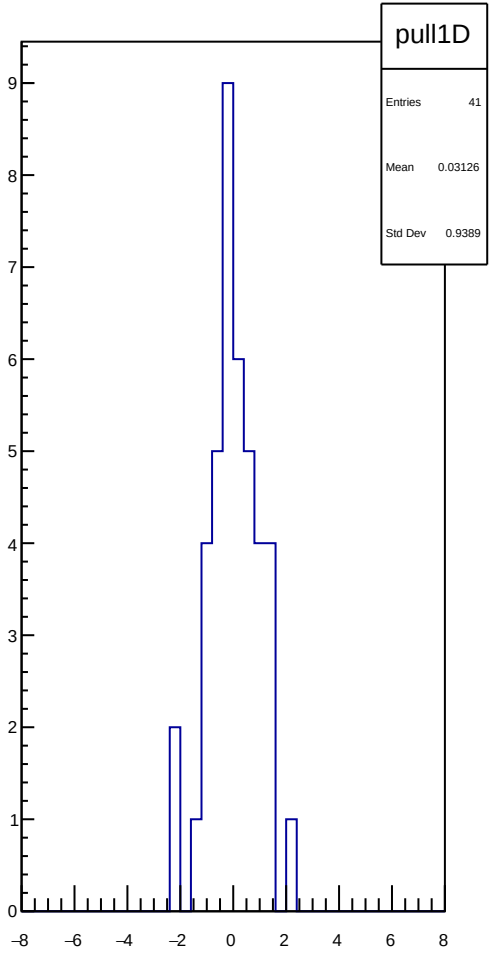

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 955.1 / 40
p0 792.5 ± 0.8843
860
840
820
800
780
760
740
720
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

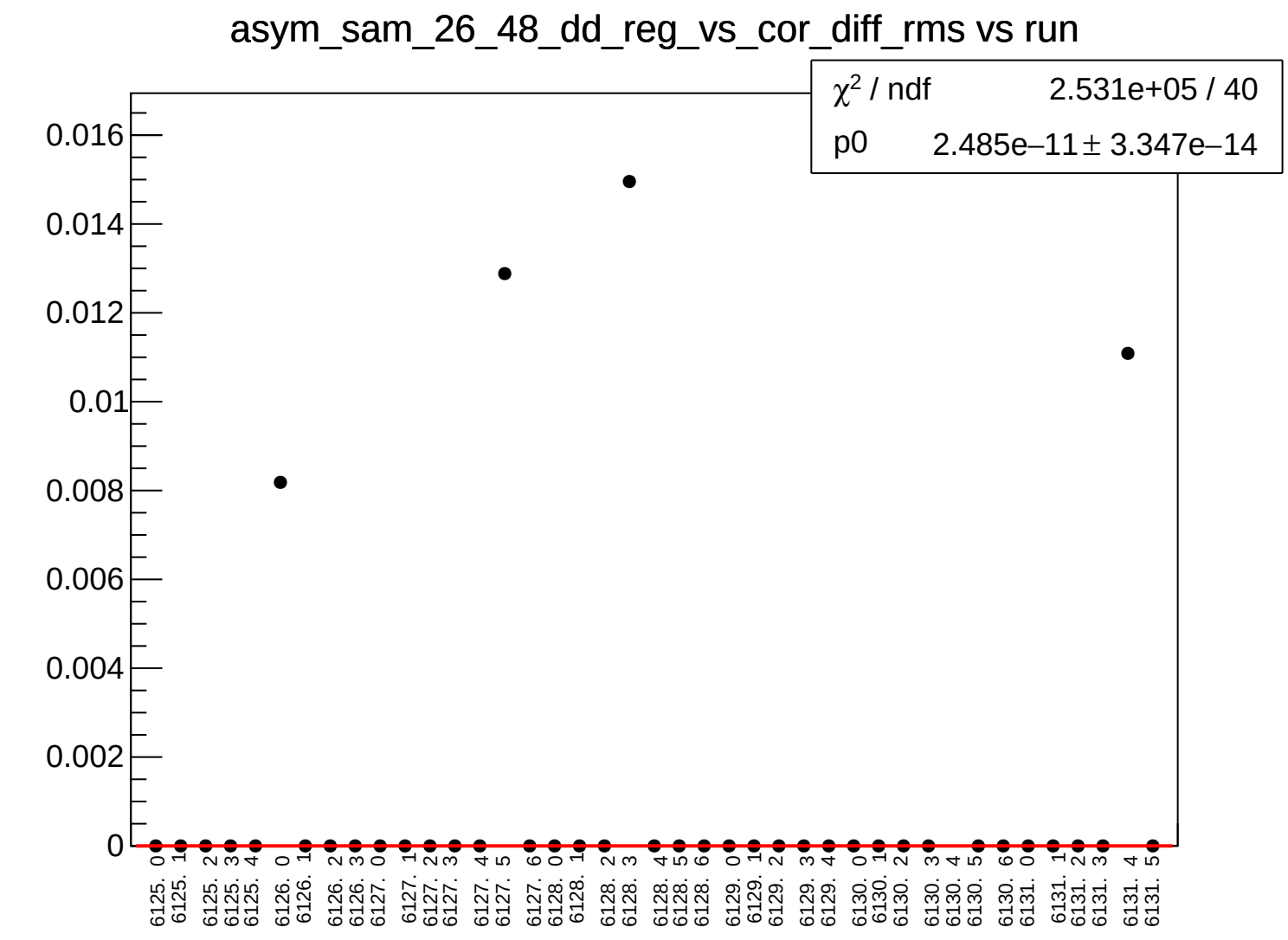

asym_sam_26_48_dd_mean vs run
χ² / ndf 49.11 / 40
p0 186.3 ± 1268
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −21.45
Std Dev 0
3
2
1
0
−1
−2

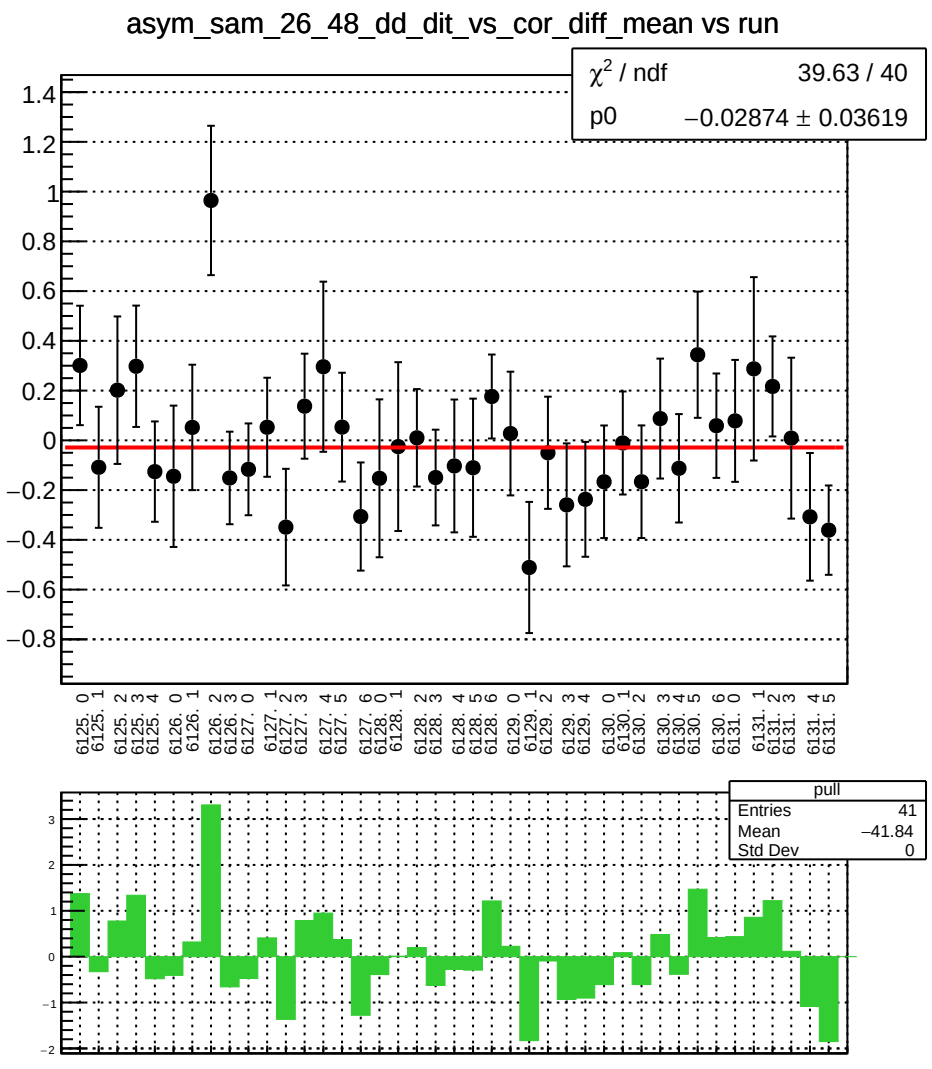

pull1D
Entries 41
Mean 0.03609
Std Dev 1.094
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

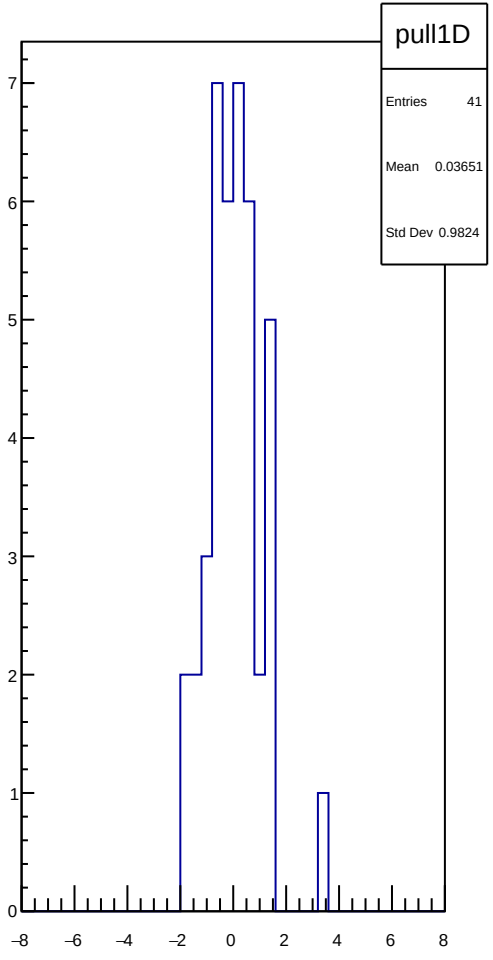

asym_sam_26_48_dd_rms vs run
χ² / ndf 1140 / 40
p0 803.5 ± 0.8966
880
860
840
820
800
780
760
740
720
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

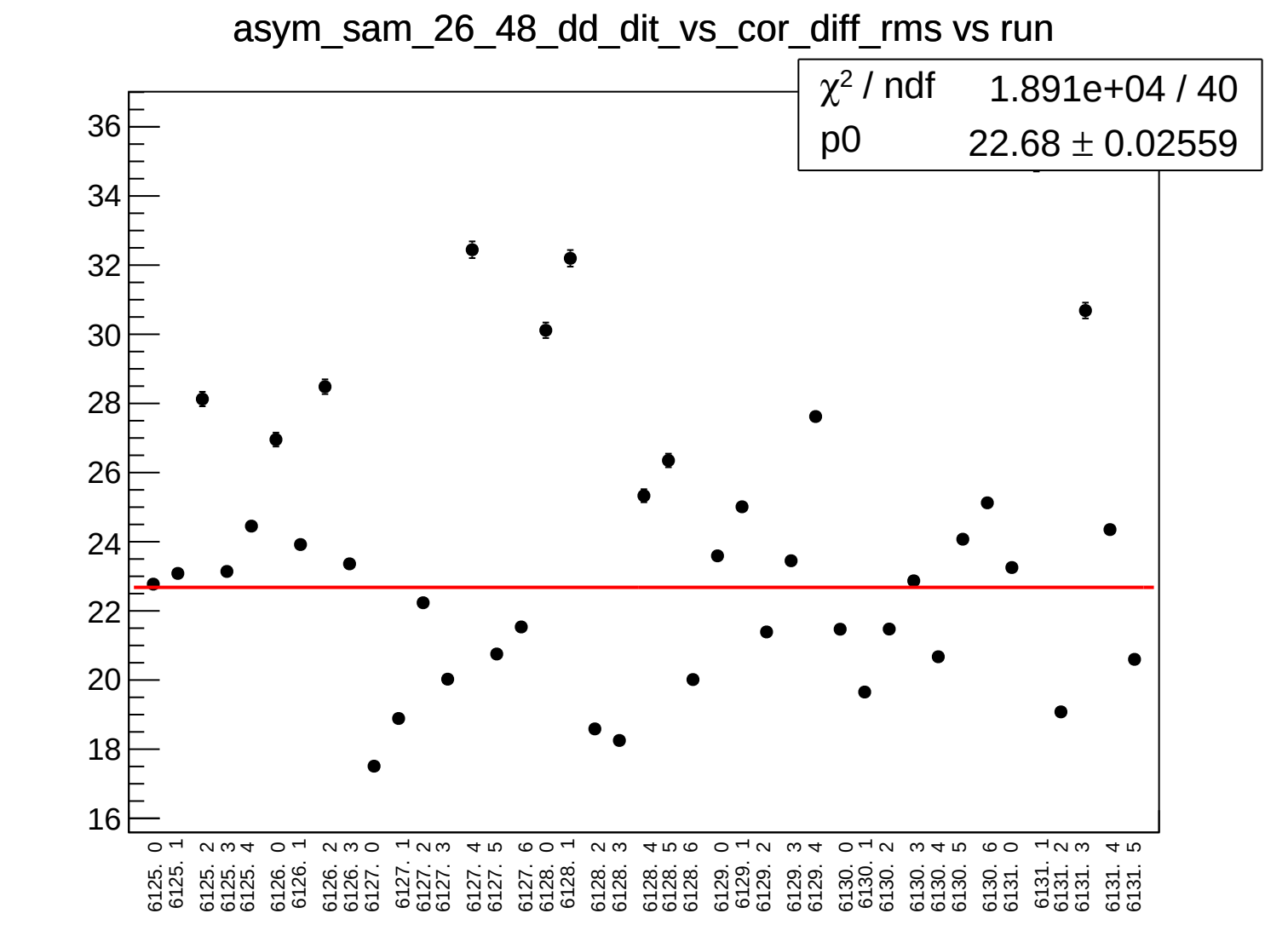

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 36.18 / 40
p0 −5.746e−14 ± 4.734e−14
pull
Entries 41
Mean 21.05
Std Dev 14.26

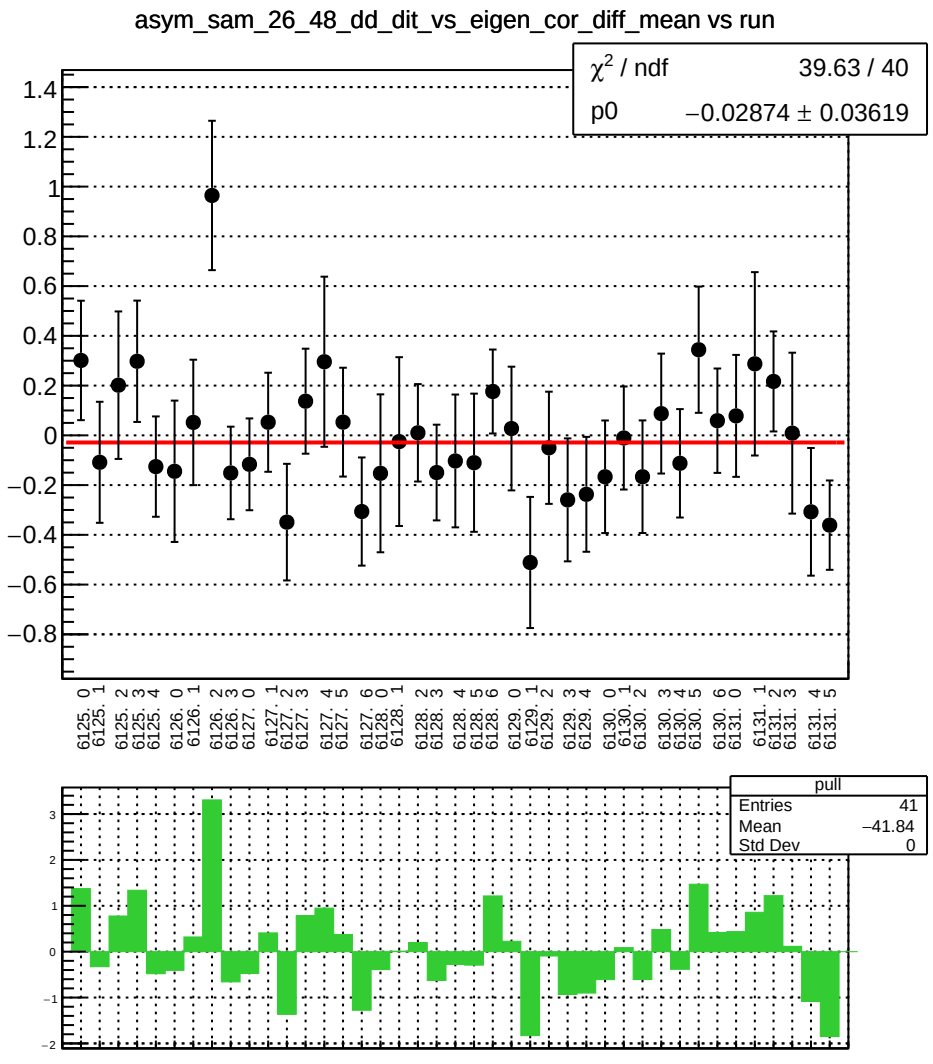

pull1D
Entries 41
Mean 0.03126
Std Dev 0.9389

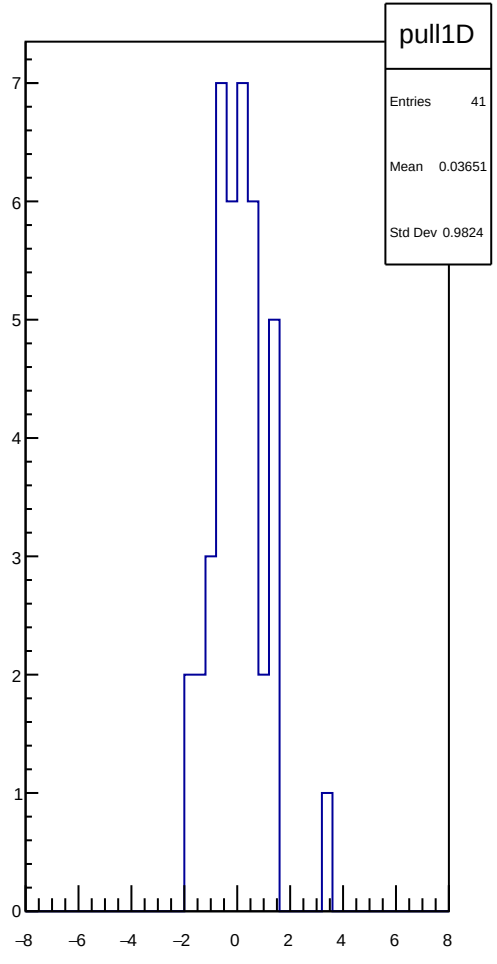

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.531e+05 / 40
p0 2.485e−11 ± 3.347e−14
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

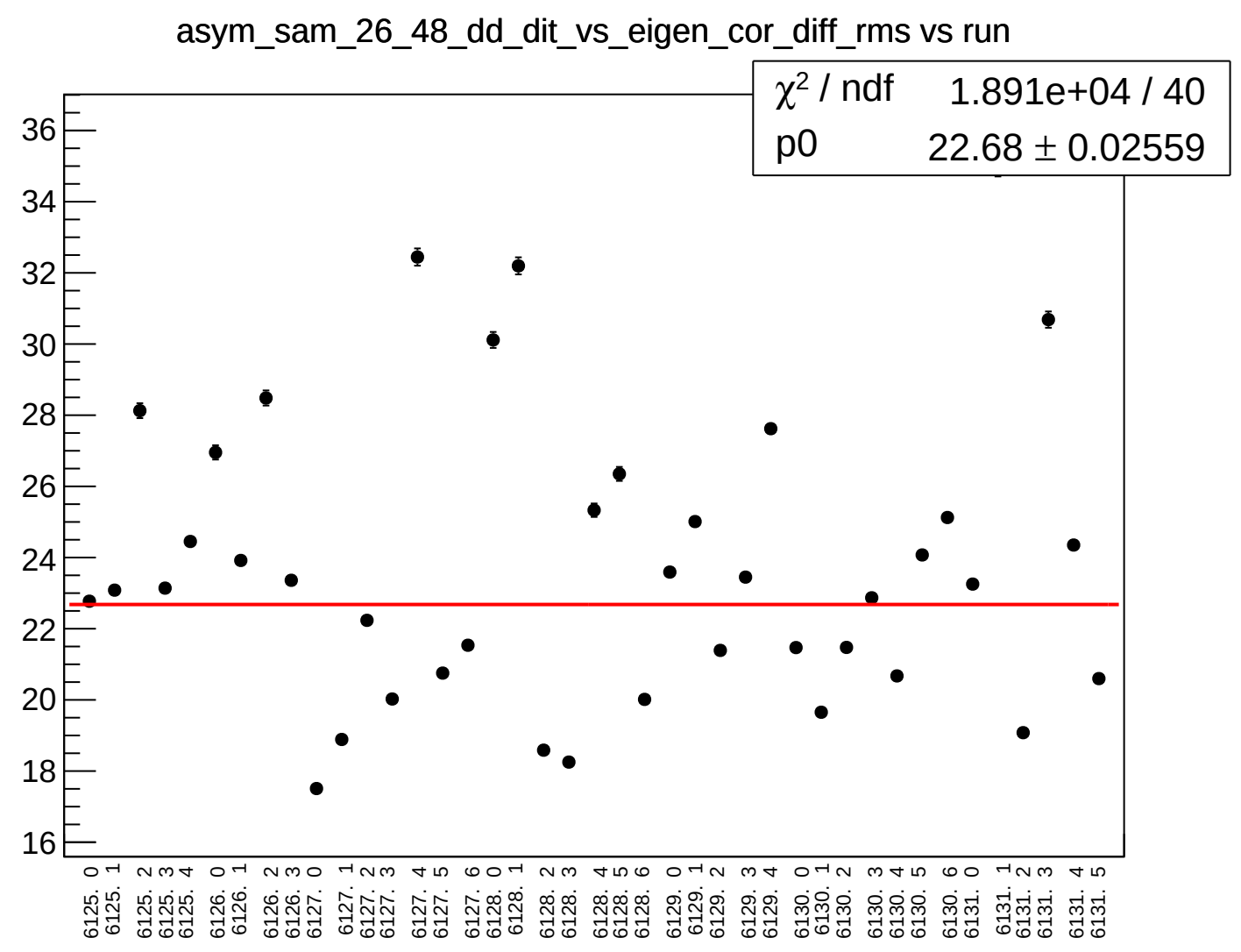

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 39.63 / 40
p0 −0.02874 ± 0.03619
pull
Entries 41
Mean −41.84
Std Dev 0

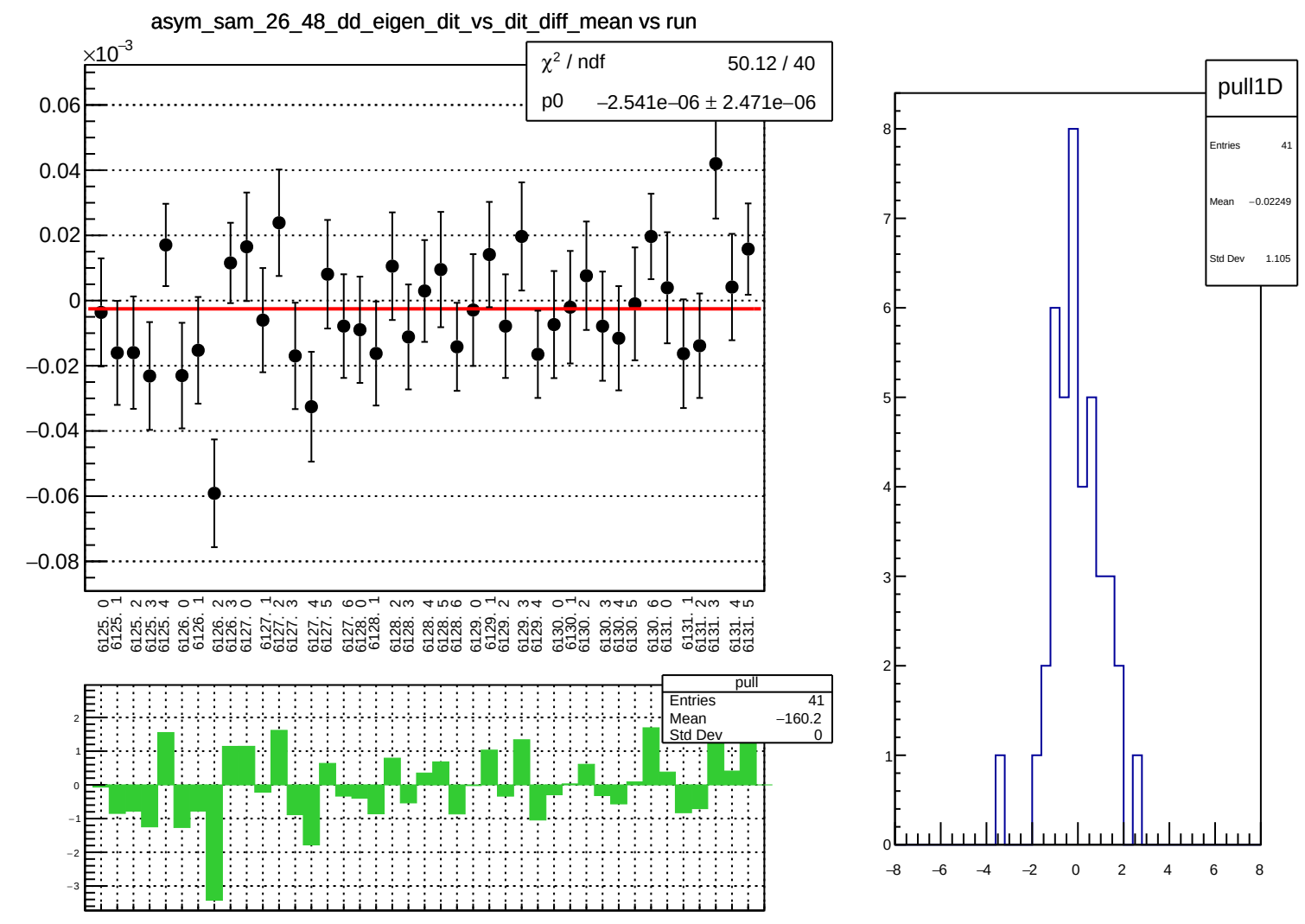

pull1D
Entries 41
Mean 0.03651
Std Dev 0.9824

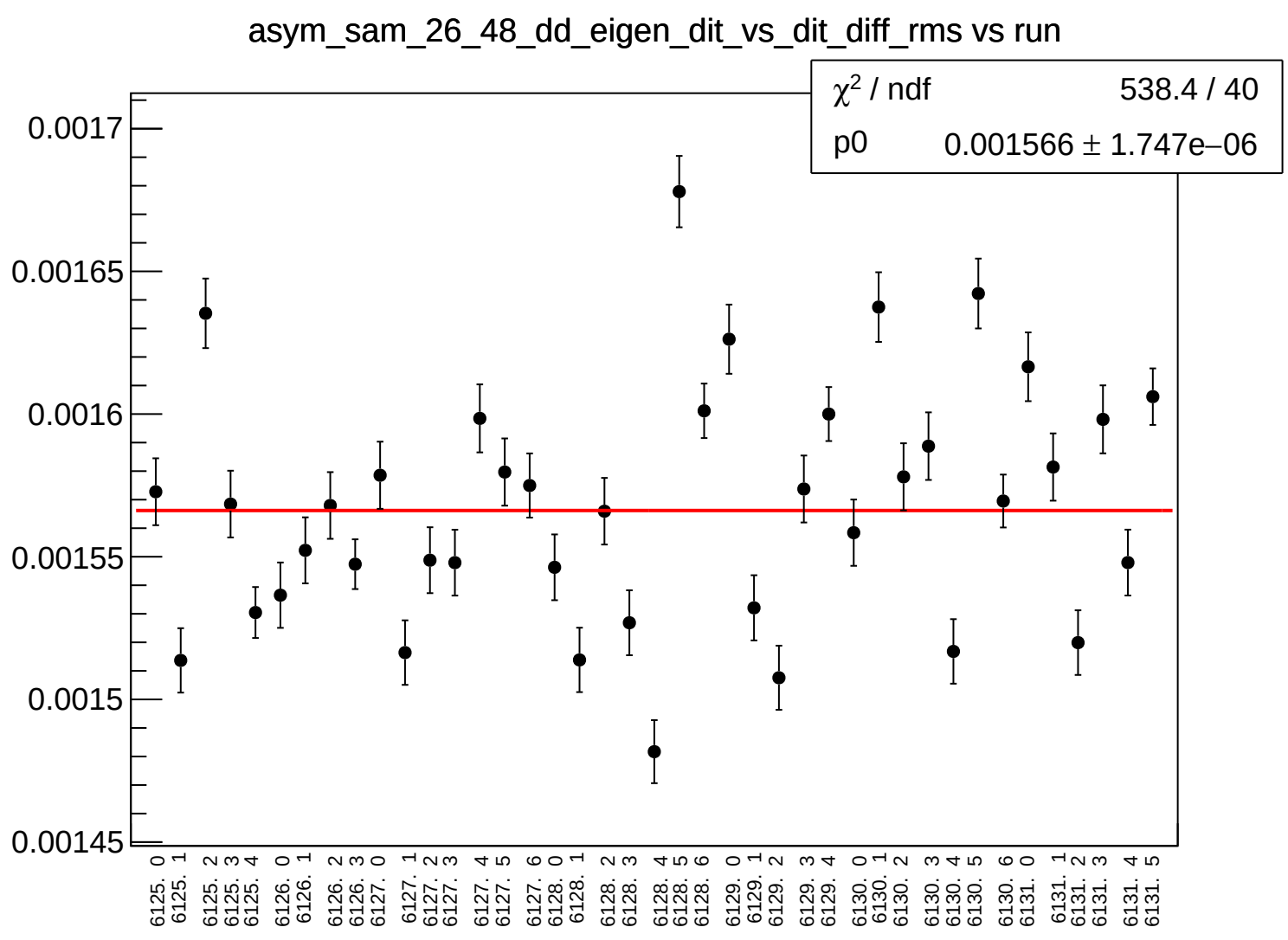

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.891e+04 / 40
p0 22.68 ± 0.02559
36
34
32
30
28
26
24
22
20
18
16
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

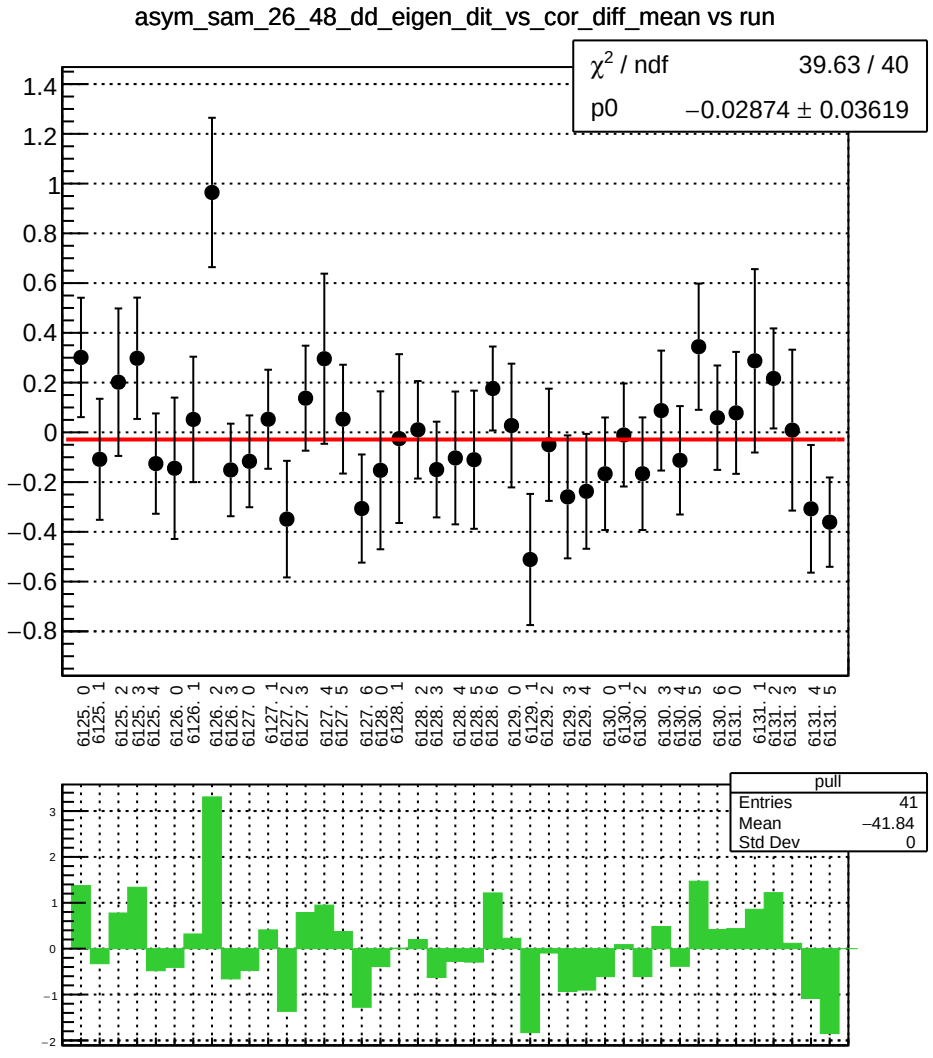

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.63 / 40
p0 −0.02874 ± 0.03619
pull
Entries 41
Mean −41.84
Std Dev 0

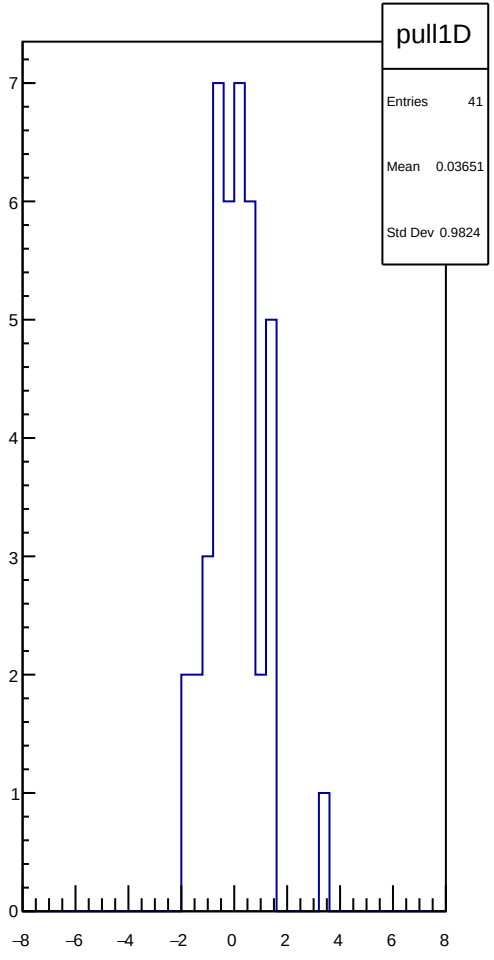

pull1D
Entries 41
Mean 0.03651
Std Dev 0.9824

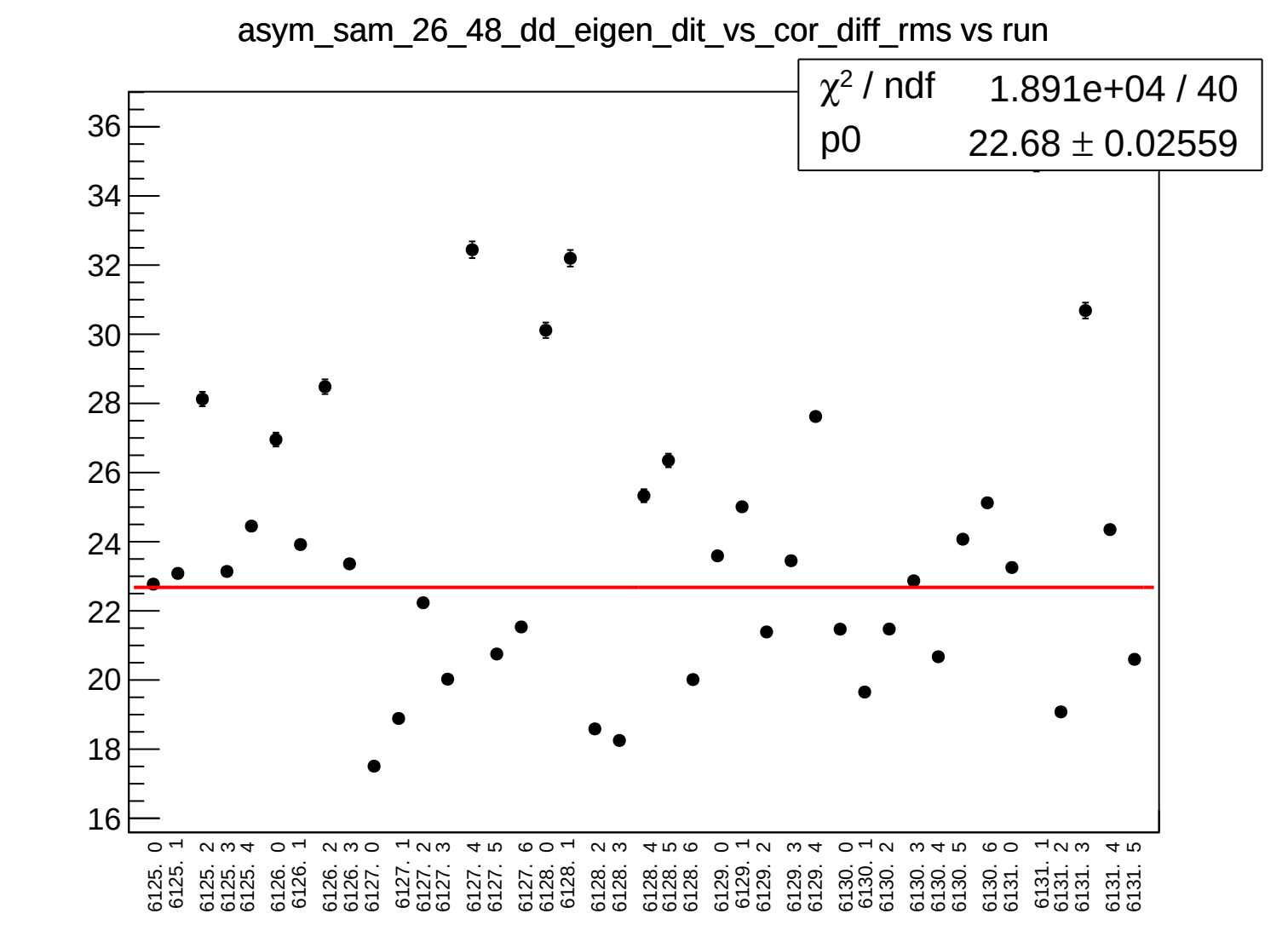

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.891e+04 / 40
p0 22.68 ± 0.02559
36
34
32
30
28
26
24
22
20
18
16
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

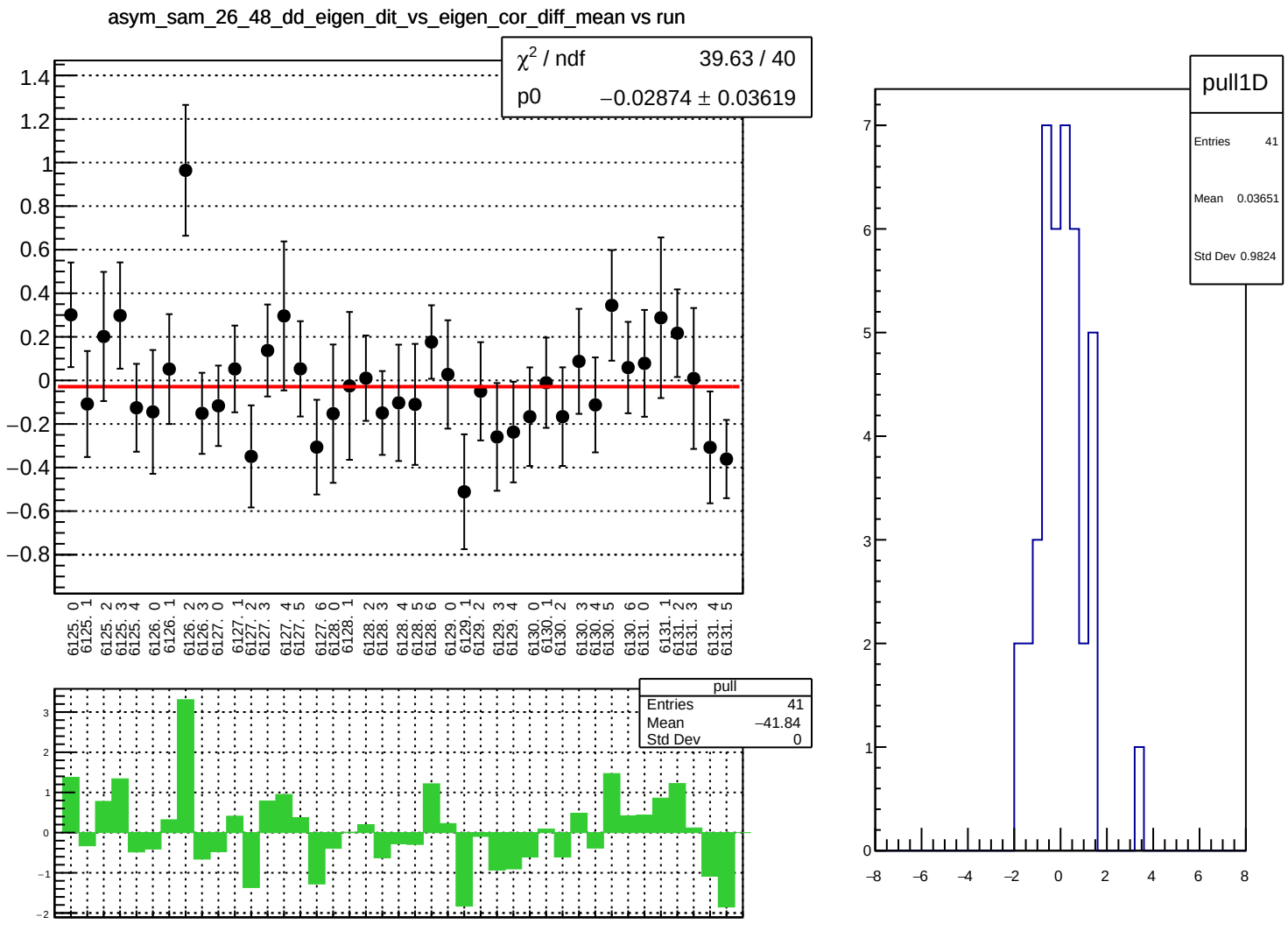

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 50.12 / 40
p0 −2.541e−06 ± 2.471e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −160.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean −0.02249
Std Dev 1.105
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

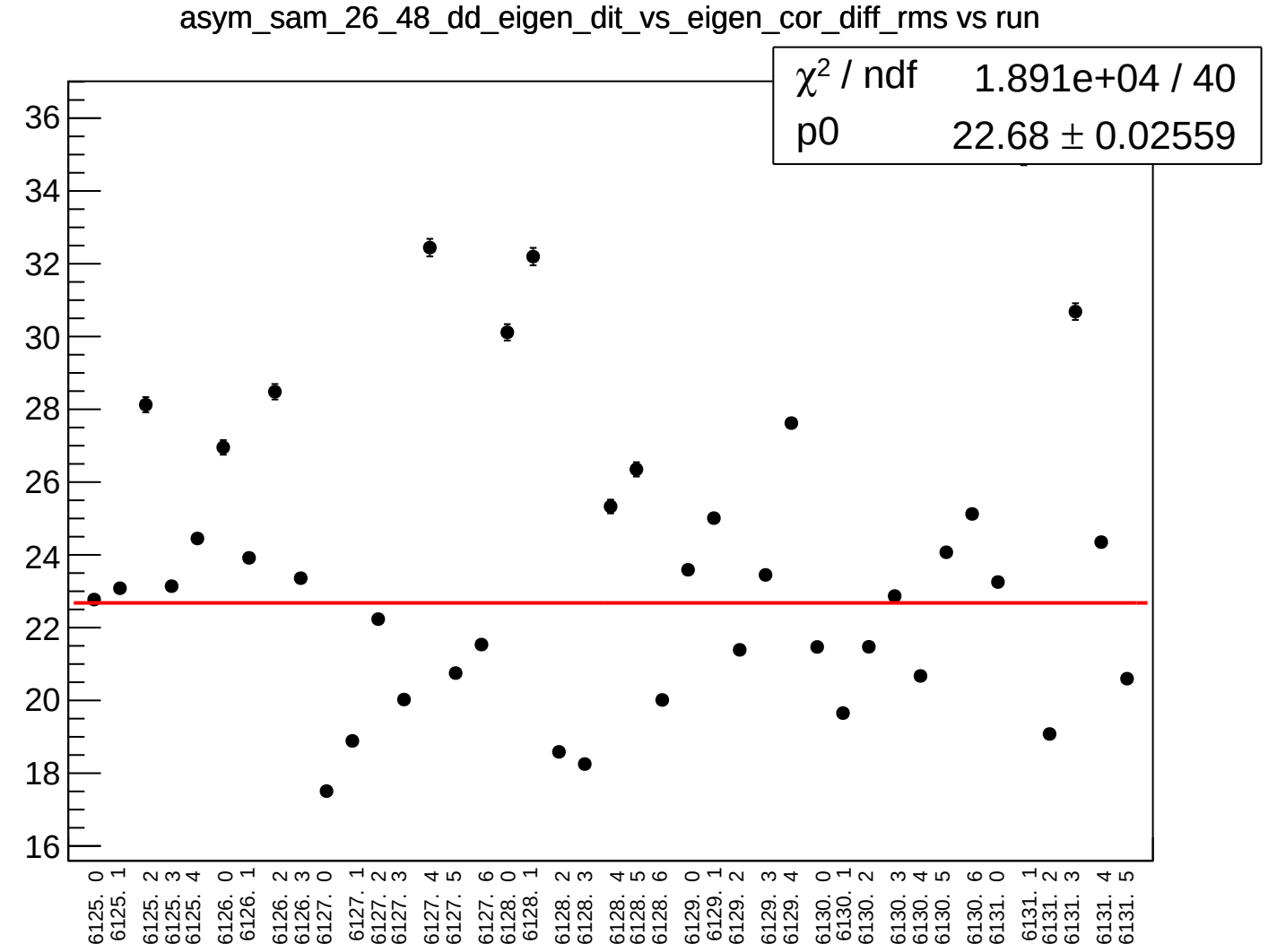

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 538.4 / 40
p0 0.001566 ± 1.747e−06
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

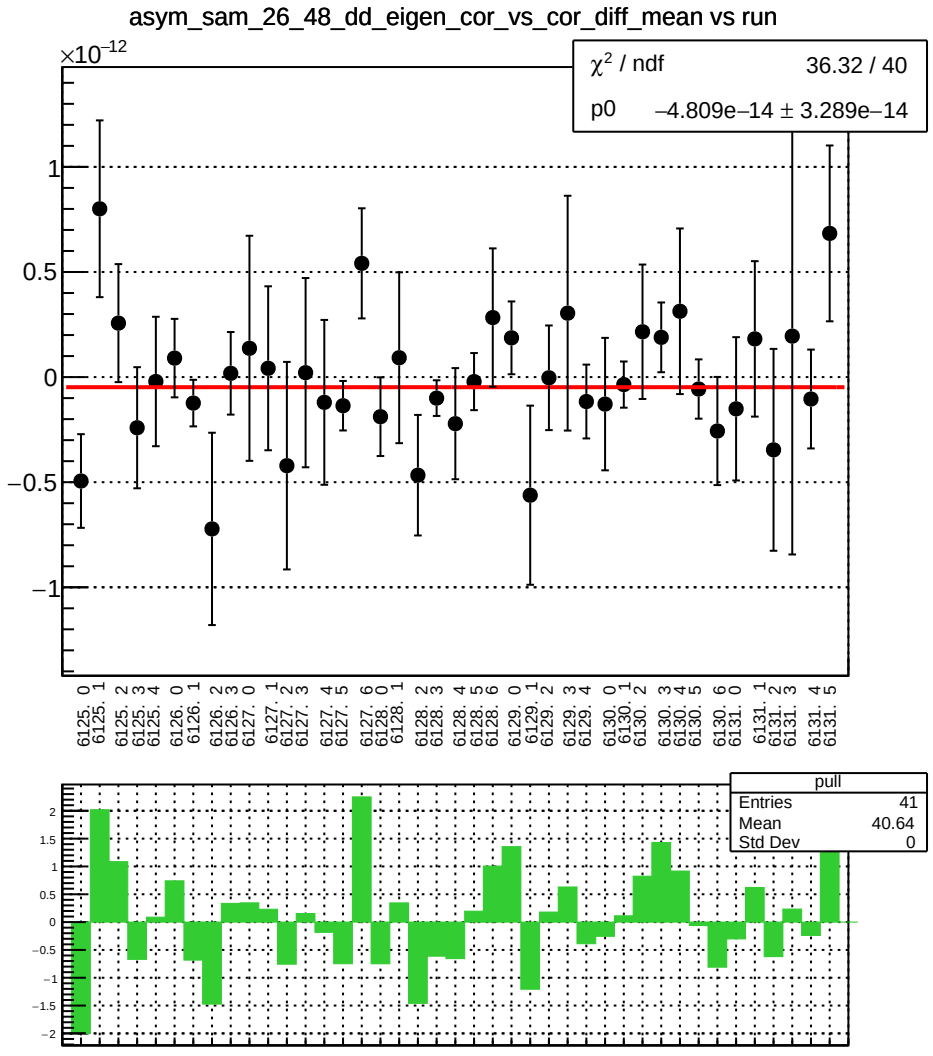

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 39.63 / 40
p0 −0.02874 ± 0.03619
pull
Entries 41
Mean −41.84
Std Dev 0

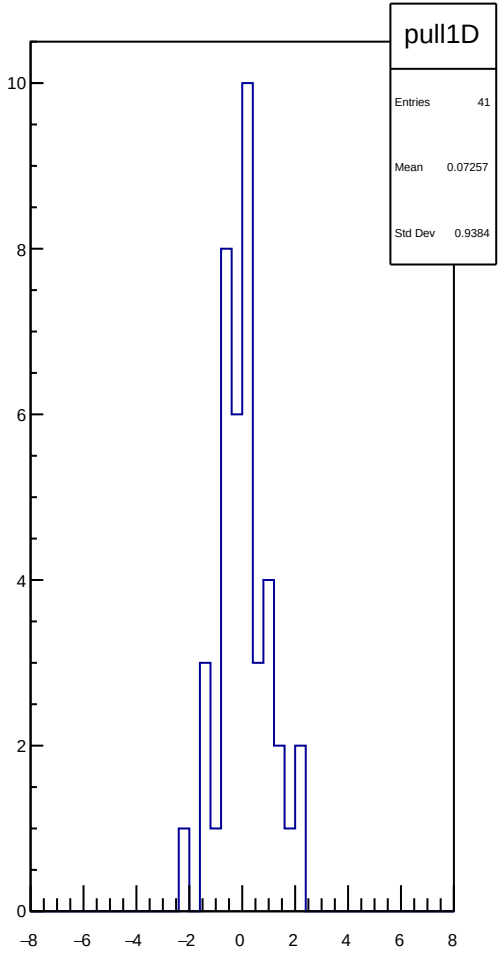

pull1D
Entries 41
Mean 0.03651
Std Dev 0.9824

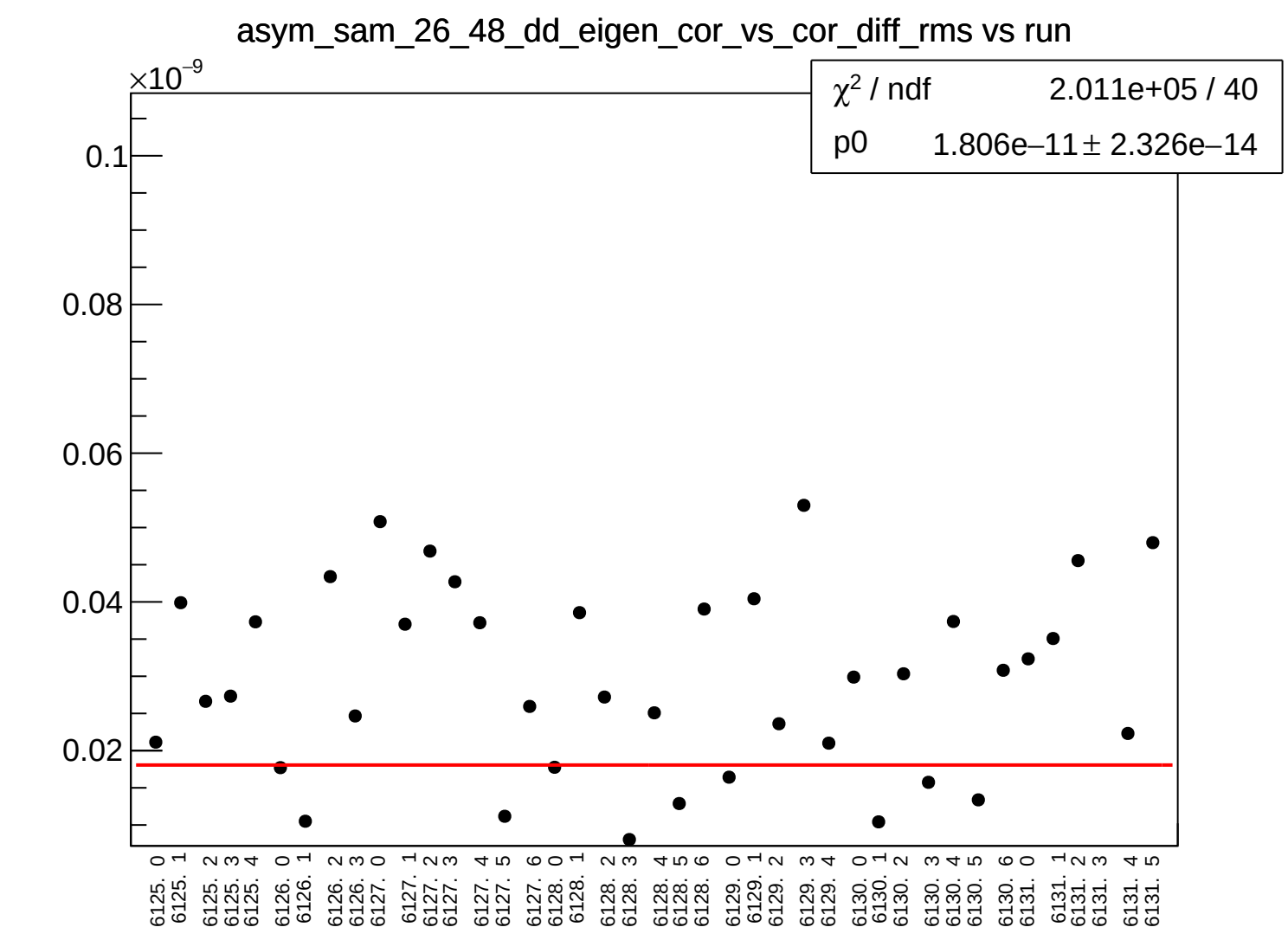

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.891e+04 / 40
p0 22.68 ± 0.02559
36
34
32
30
28
26
24
22
20
18
16
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

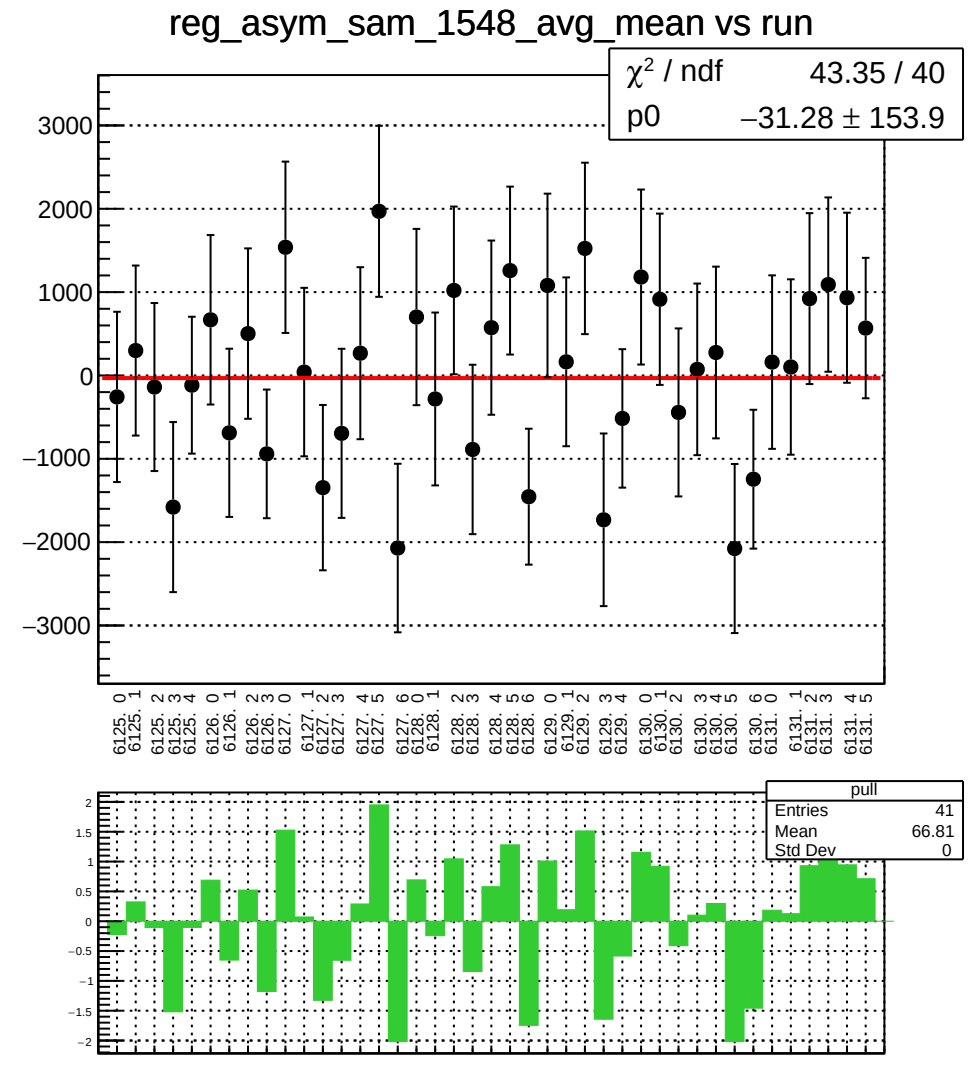

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.63 / 40
p0 −0.02874 ± 0.03619
pull
Entries 41
Mean −41.84
Std Dev 0
pull1D
Entries 41
Mean 0.03651
Std Dev 0.9824

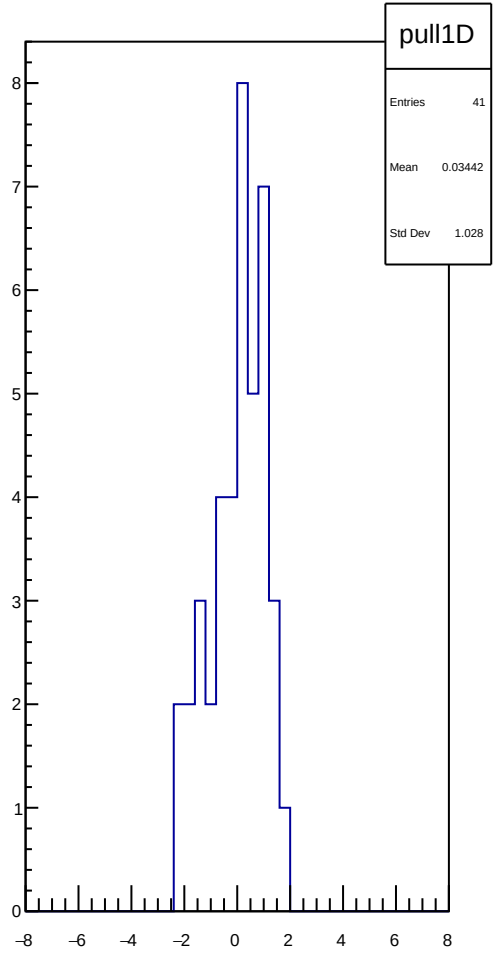

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.891e+04 / 40
p0 22.68 ± 0.02559
36
34
32
30
28
26
24
22
20
18
16
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

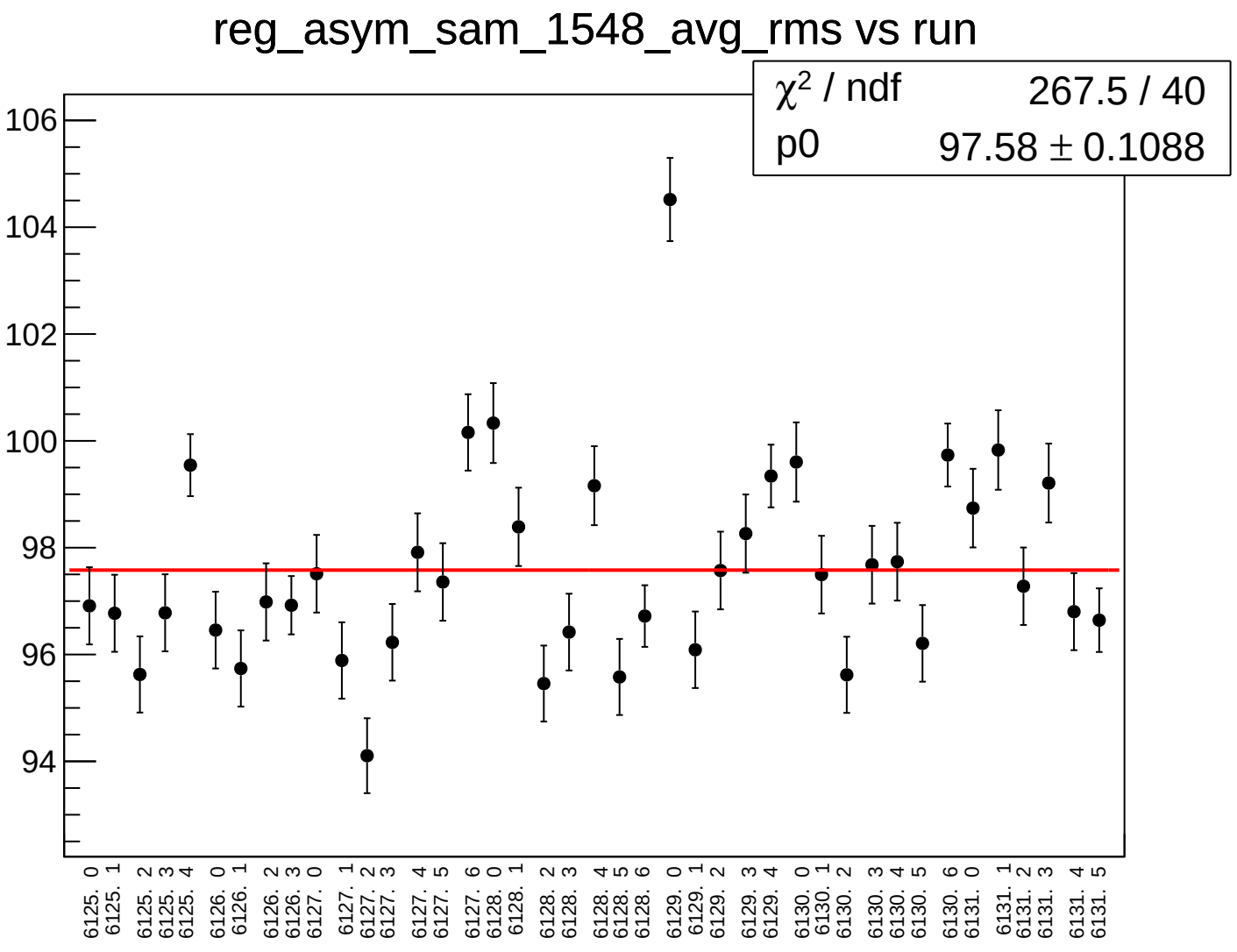

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 36.32 / 40
p0 −4.809e−14 ± 3.289e−14
pull
Entries 41
Mean 40.64
Std Dev 0

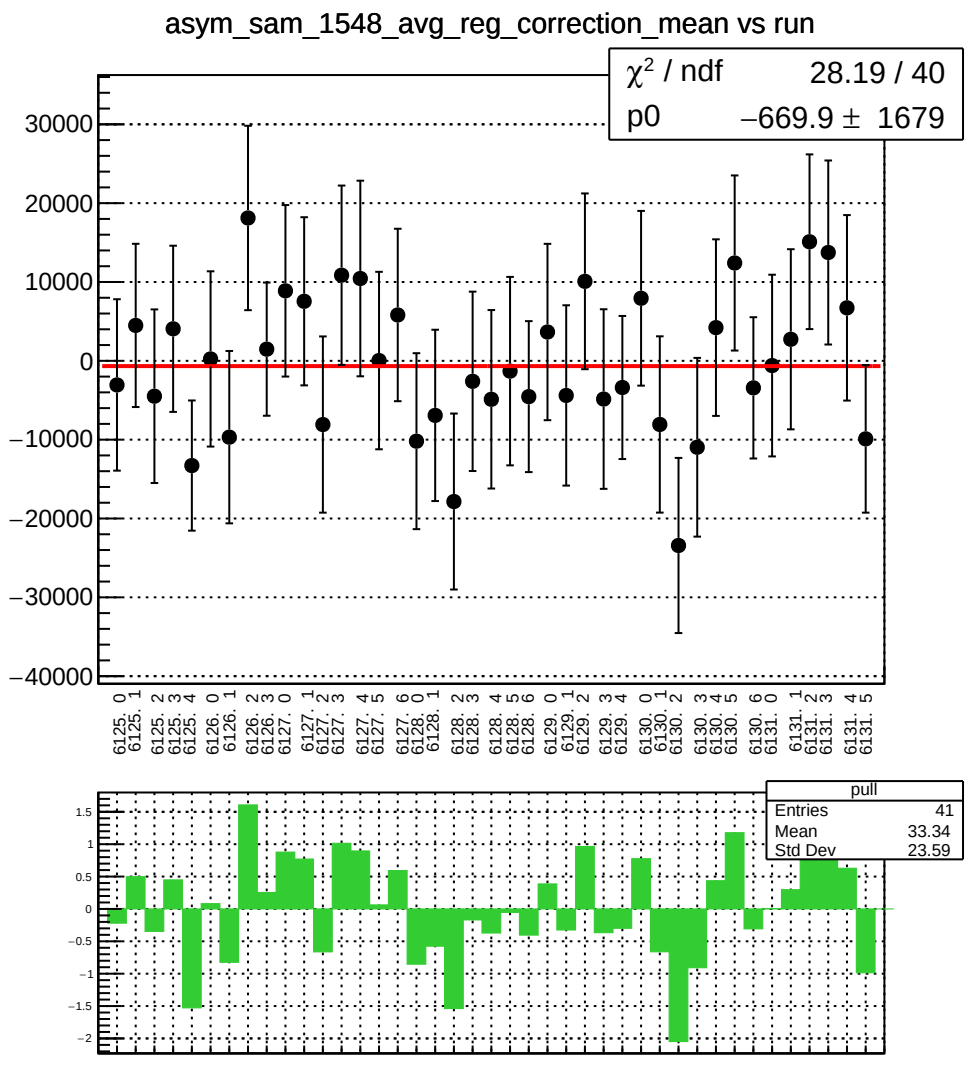

pull1D
Entries 41
Mean 0.07257
Std Dev 0.9384

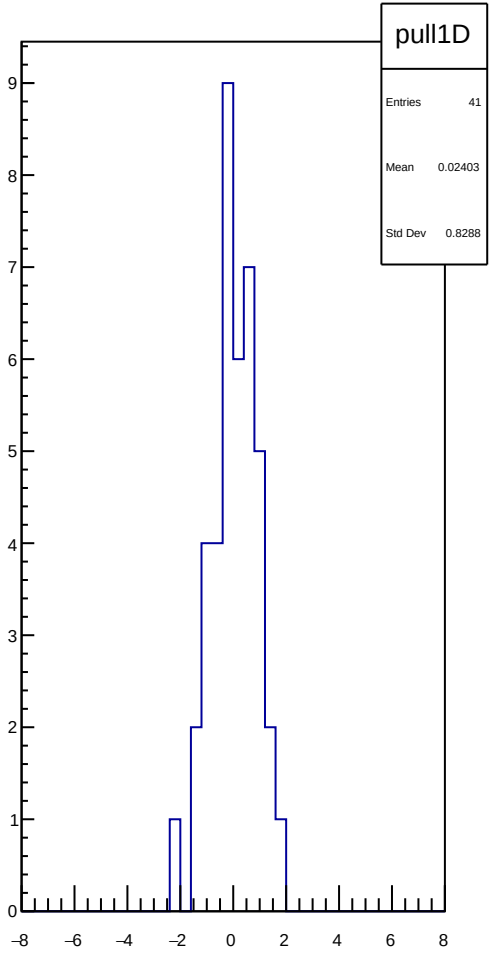

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.011e+05 / 40
p0 1.806e−11 ± 2.326e−14
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

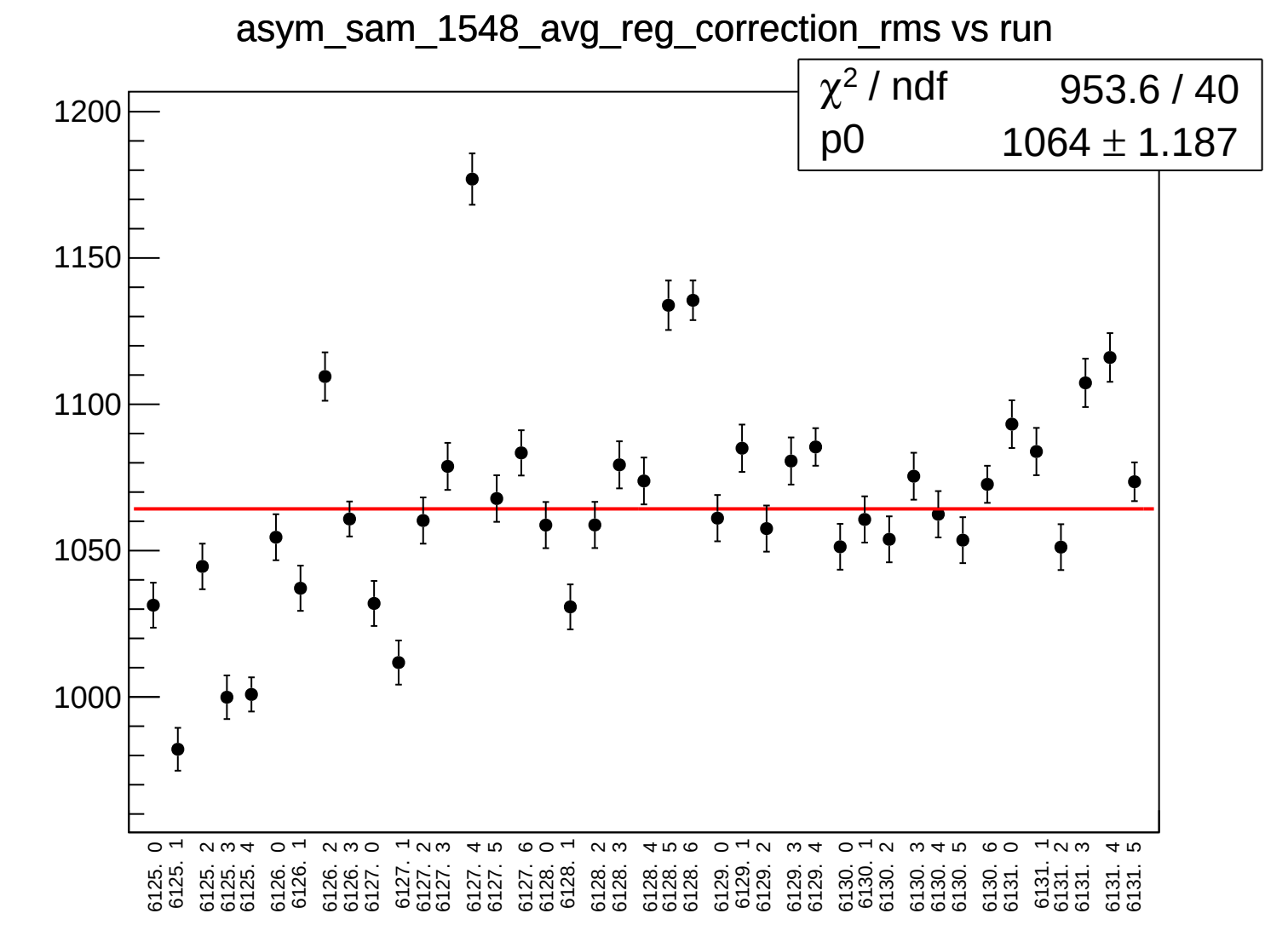

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 43.35 / 40
p0 −31.28 ± 153.9
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 66.81
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

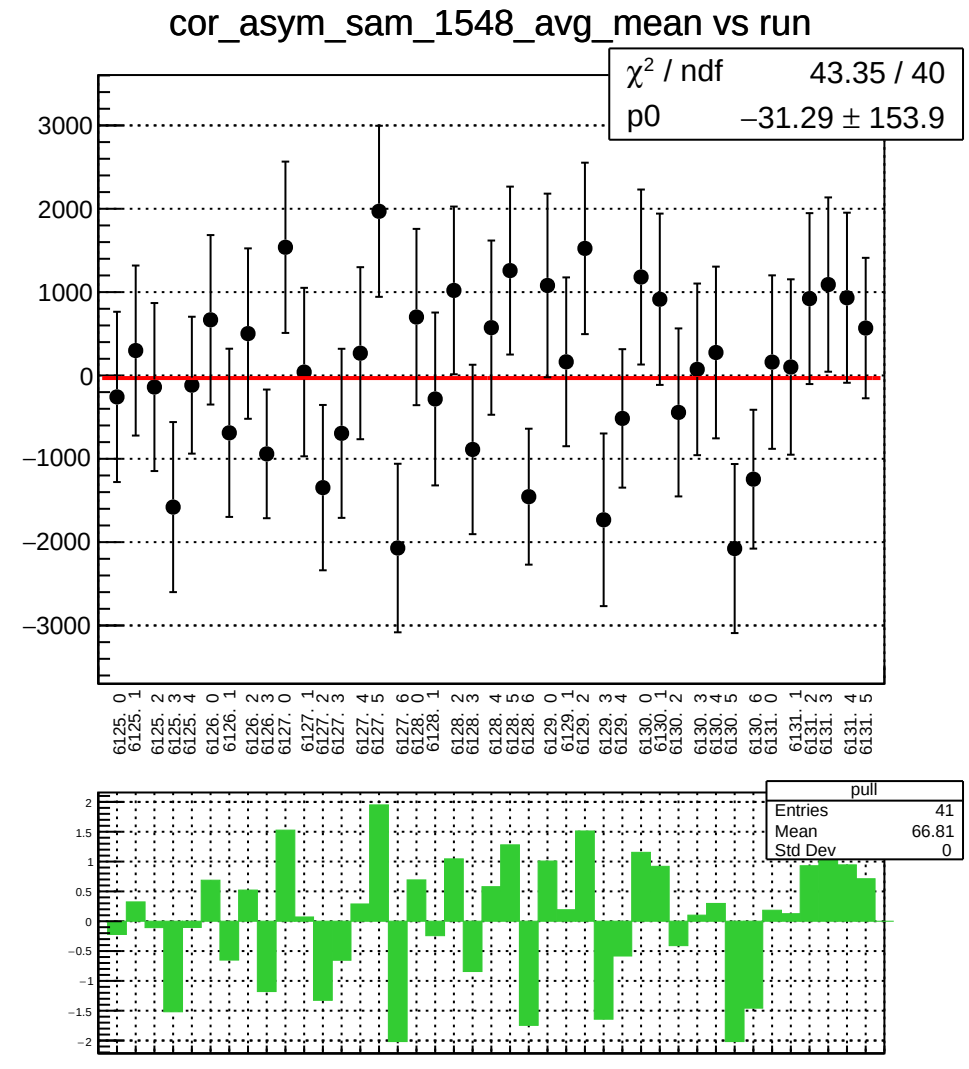

pull1D
Entries 41
Mean 0.03442
Std Dev 1.028
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

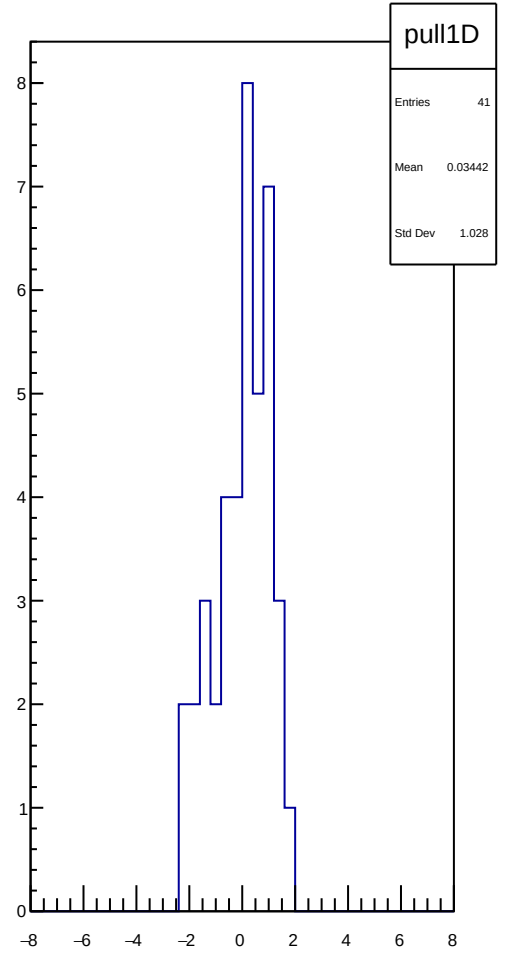

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 267.5 / 40
p0 97.58 ± 0.1088
106
104
102
100
98
96
94
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

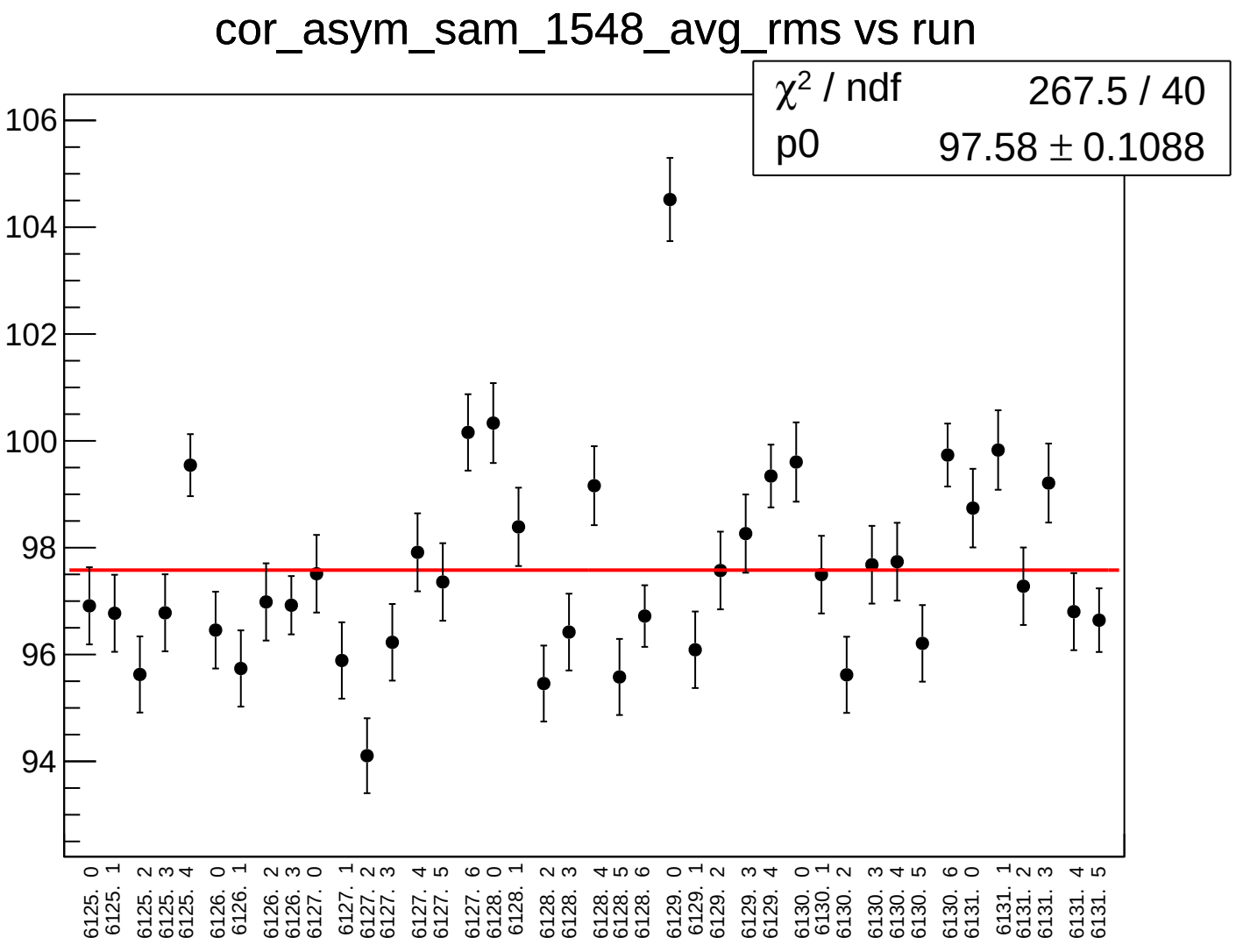

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 28.19 / 40
p0 −669.9 ± 1679
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 33.34
Std Dev 23.59
1.5
1
0.5
0
−0.5
−1
−1.5
−2

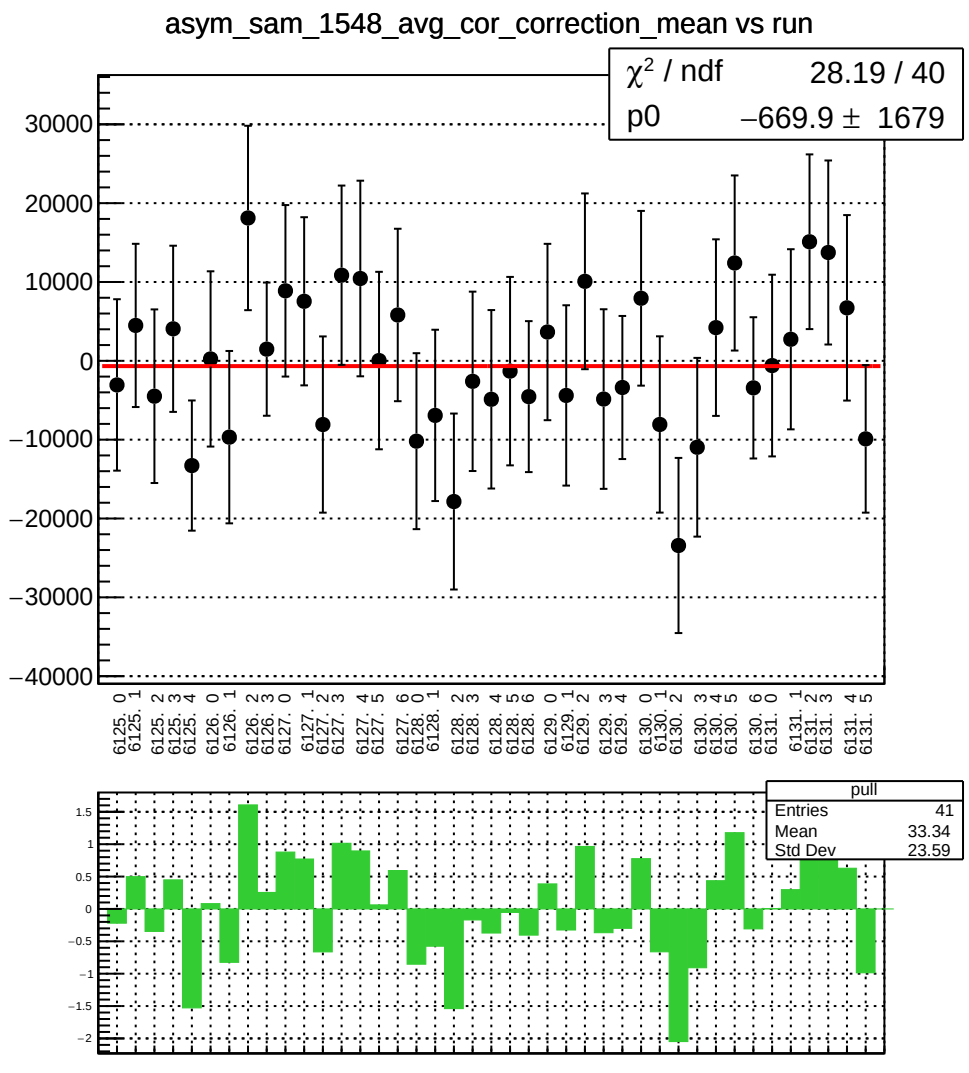

pull1D
Entries 41
Mean 0.02403
Std Dev 0.8288
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

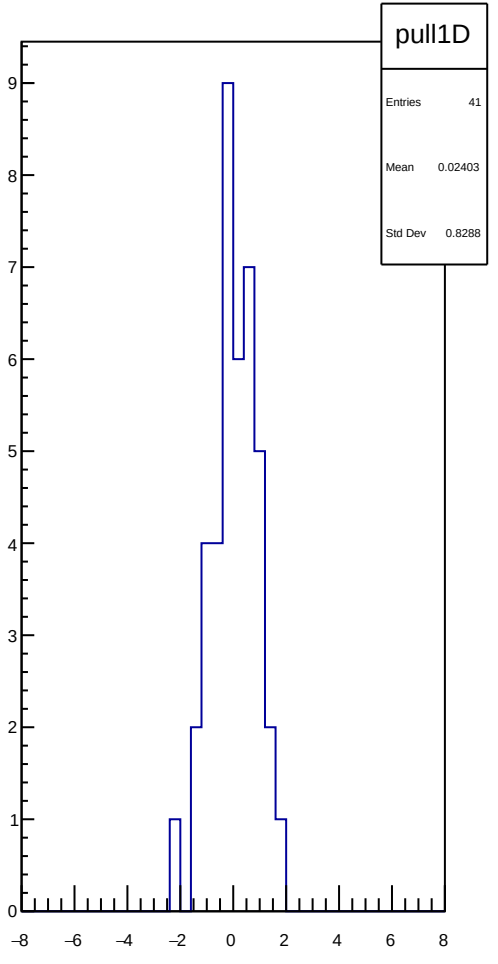

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 953.6 / 40
p0 1064 ± 1.187
1200
1150
1100
1050
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

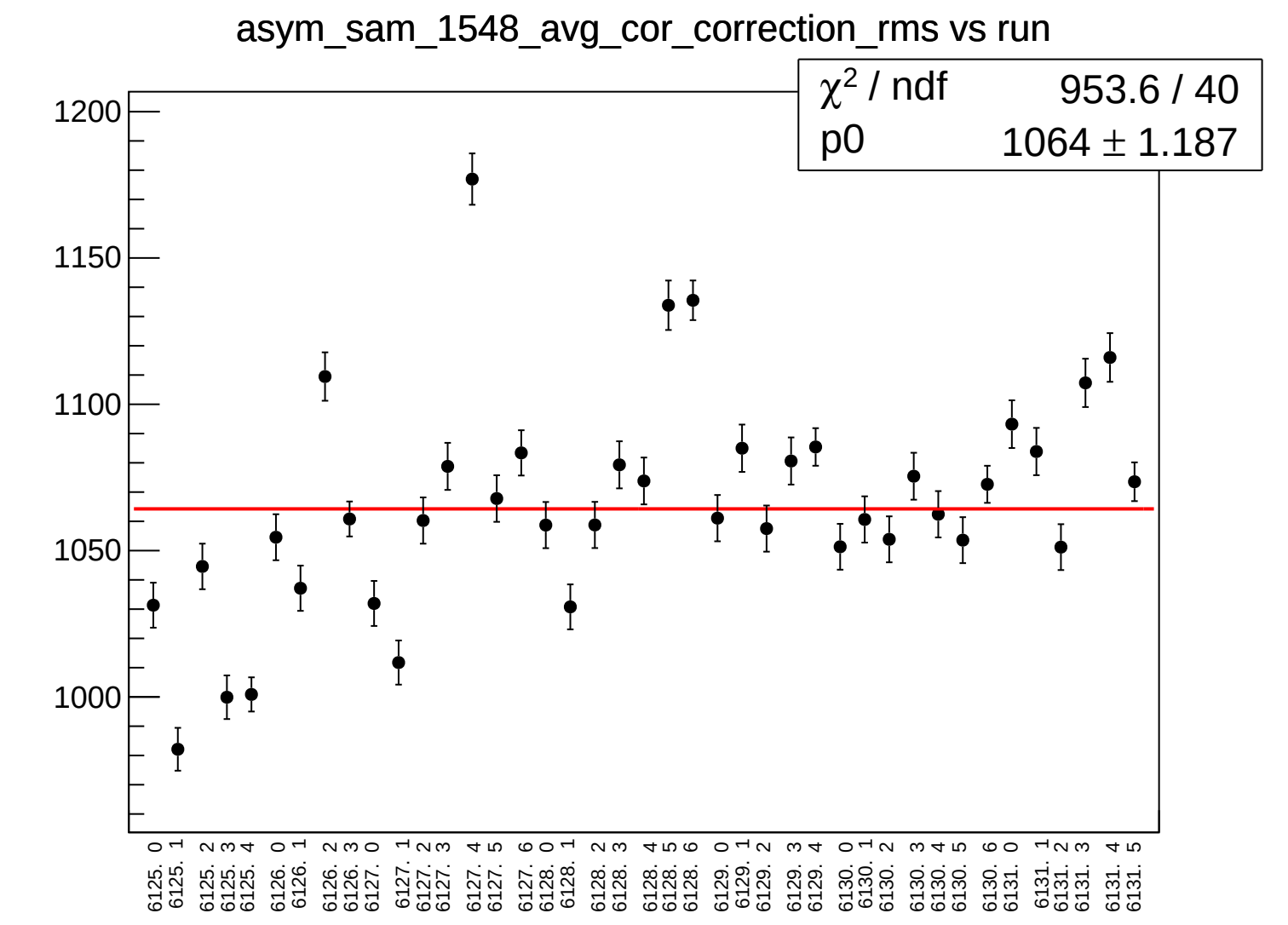

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 43.35 / 40
p0 −31.29 ± 153.9
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 66.81
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

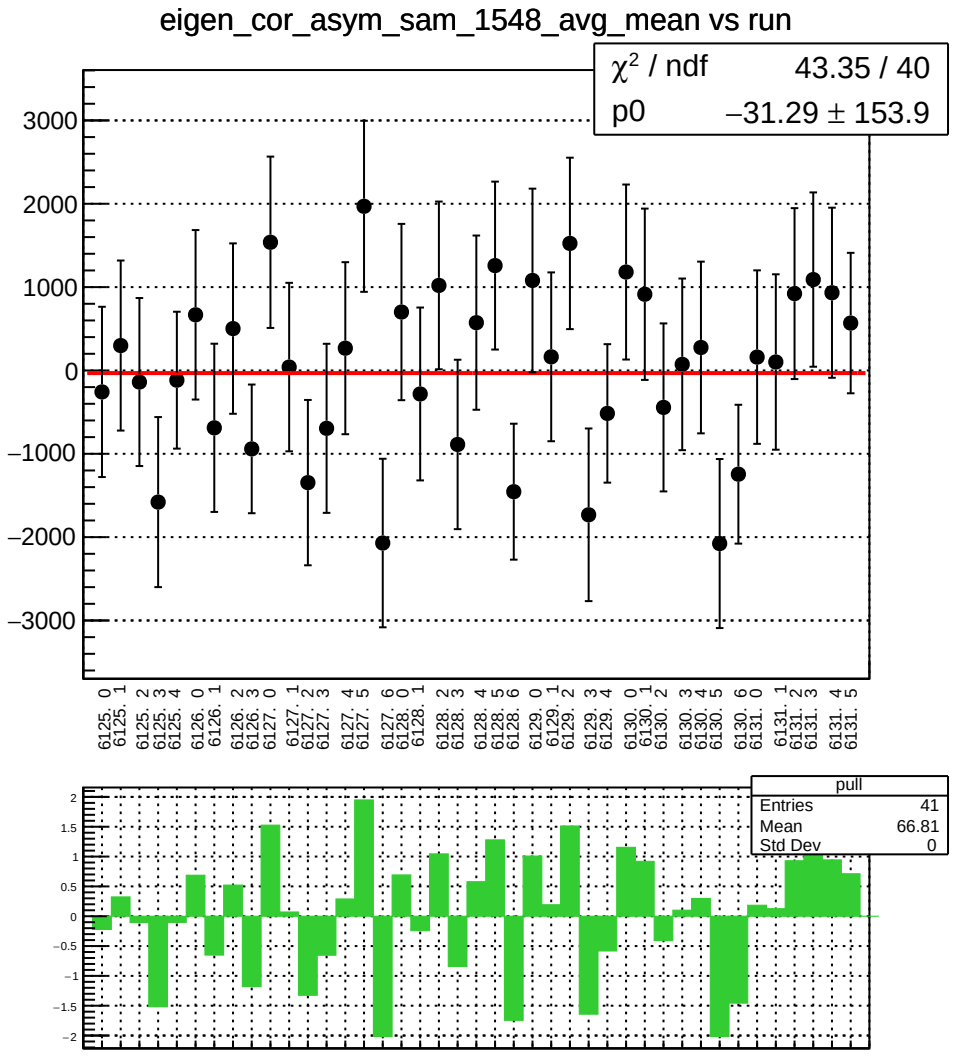

pull1D
Entries 41
Mean 0.03442
Std Dev 1.028
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

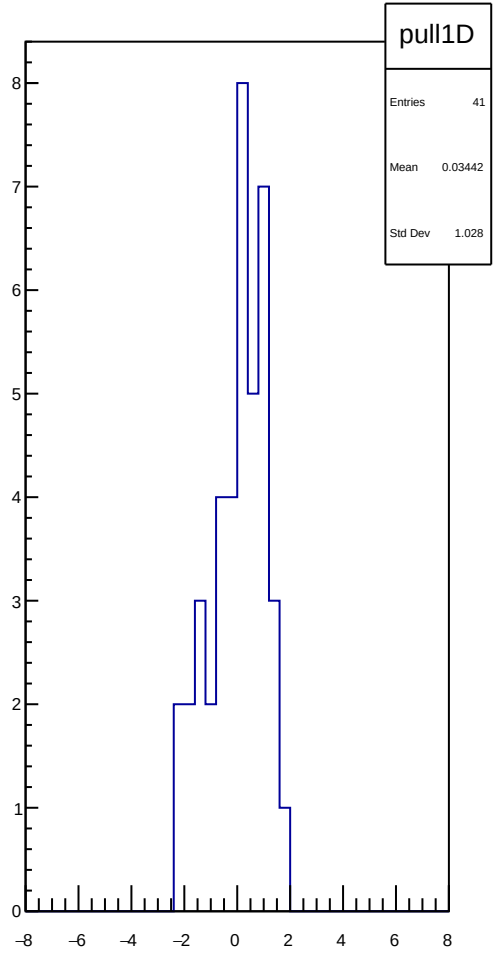

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 267.5 / 40
p0 97.58 ± 0.1088
106
104
102
100
98
96
94
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

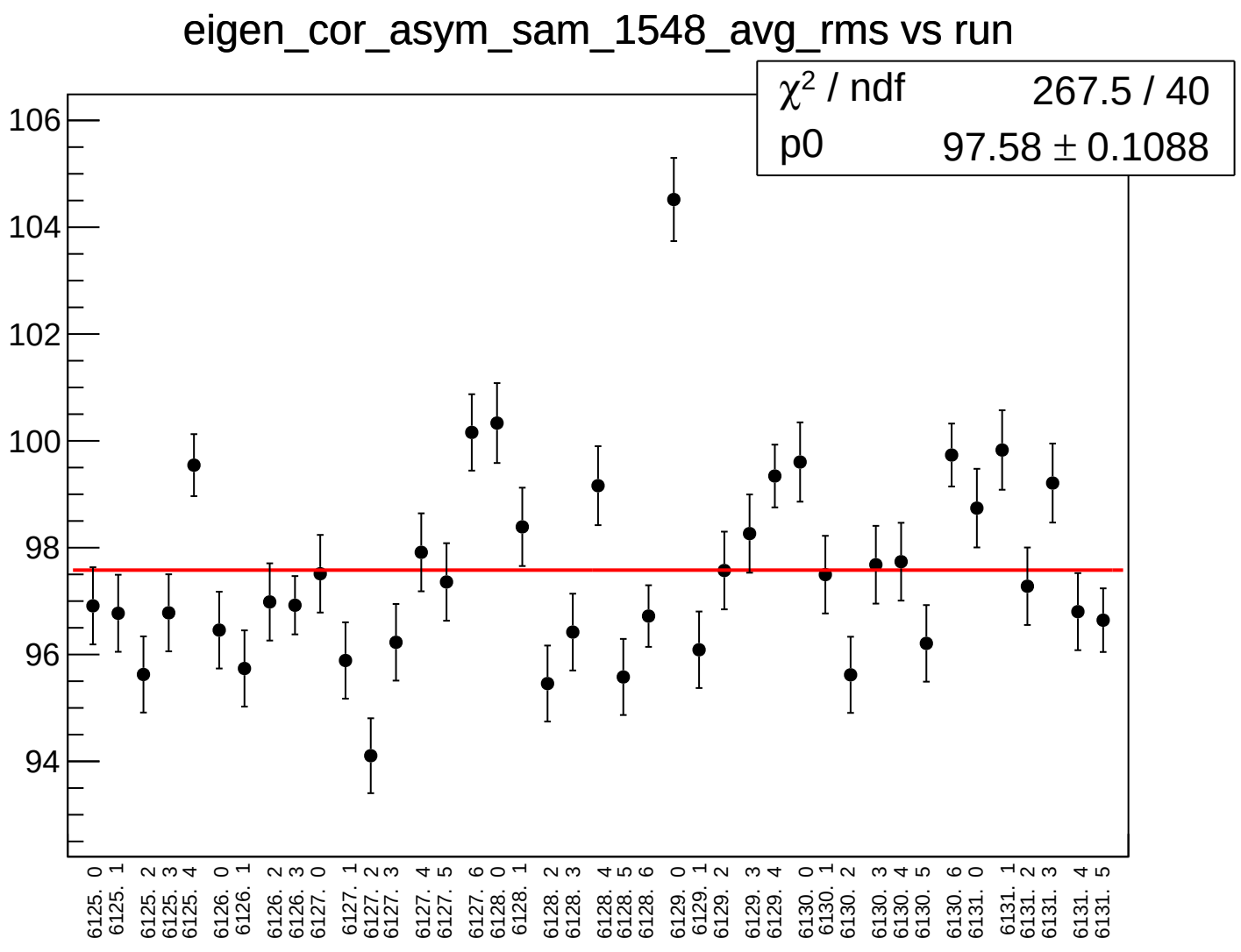

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 28.19 / 40
p0 −669.9 ± 1679
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 33.34
Std Dev 23.59
1.5
1
0.5
0
−0.5
−1
−1.5
−2

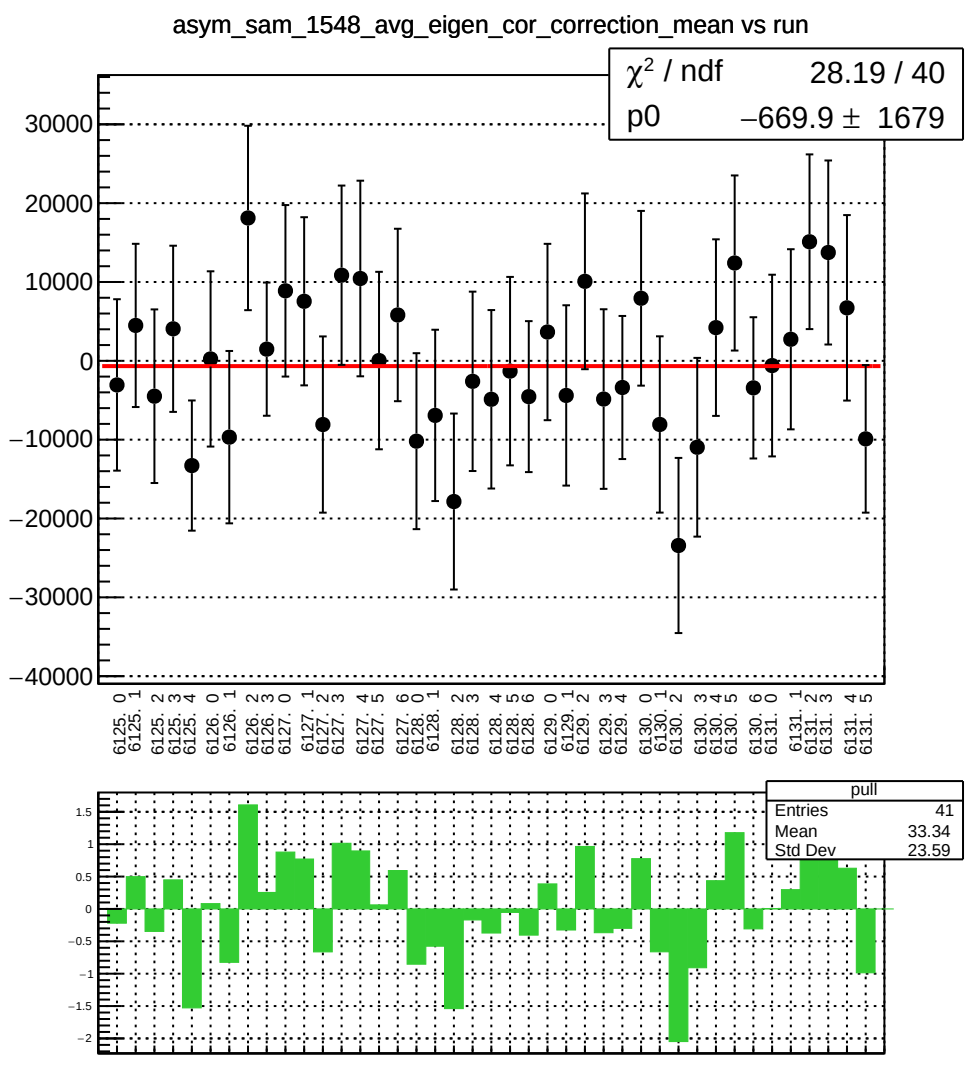

pull1D
Entries 41
Mean 0.02403
Std Dev 0.8288
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

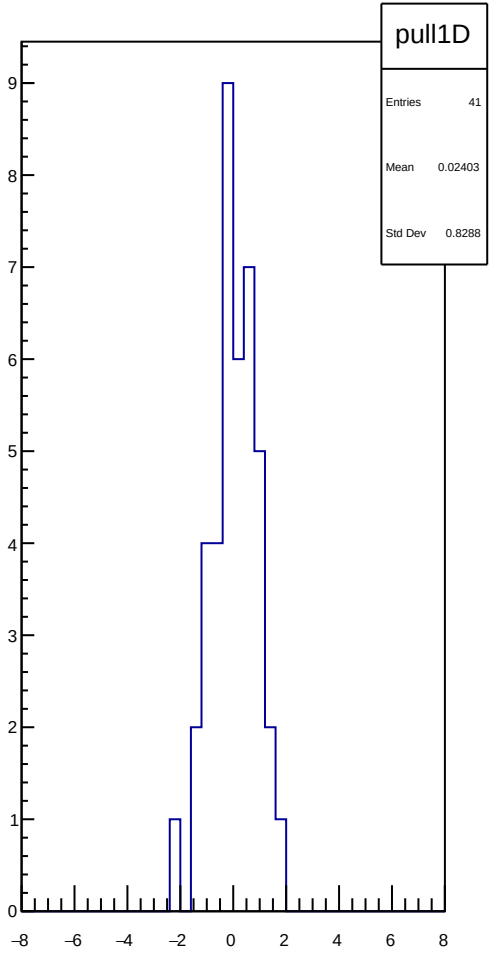

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 953.6 / 40
p0 1064 ± 1.187
1200
1150
1100
1050
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 43.35 / 40
p0 −31.29 ± 153.9
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 66.81
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.03442
Std Dev 1.028
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 267.5 / 40
p0 97.58 ± 0.1088
106
104
102
100
98
96
94
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 28.19 / 40
p0 −669.9 ± 1679
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 33.34
Std Dev 23.59
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.02403
Std Dev 0.8288
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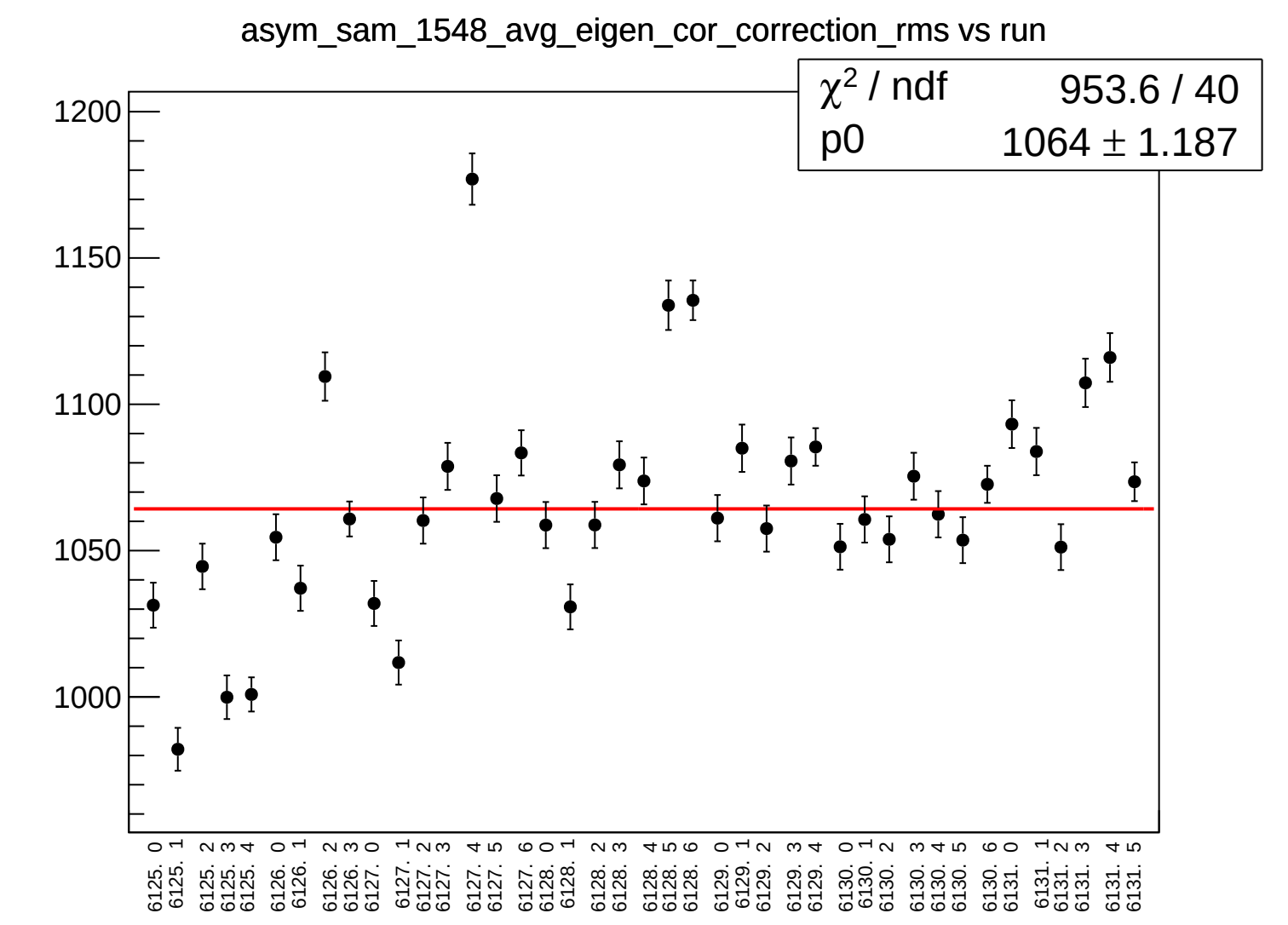
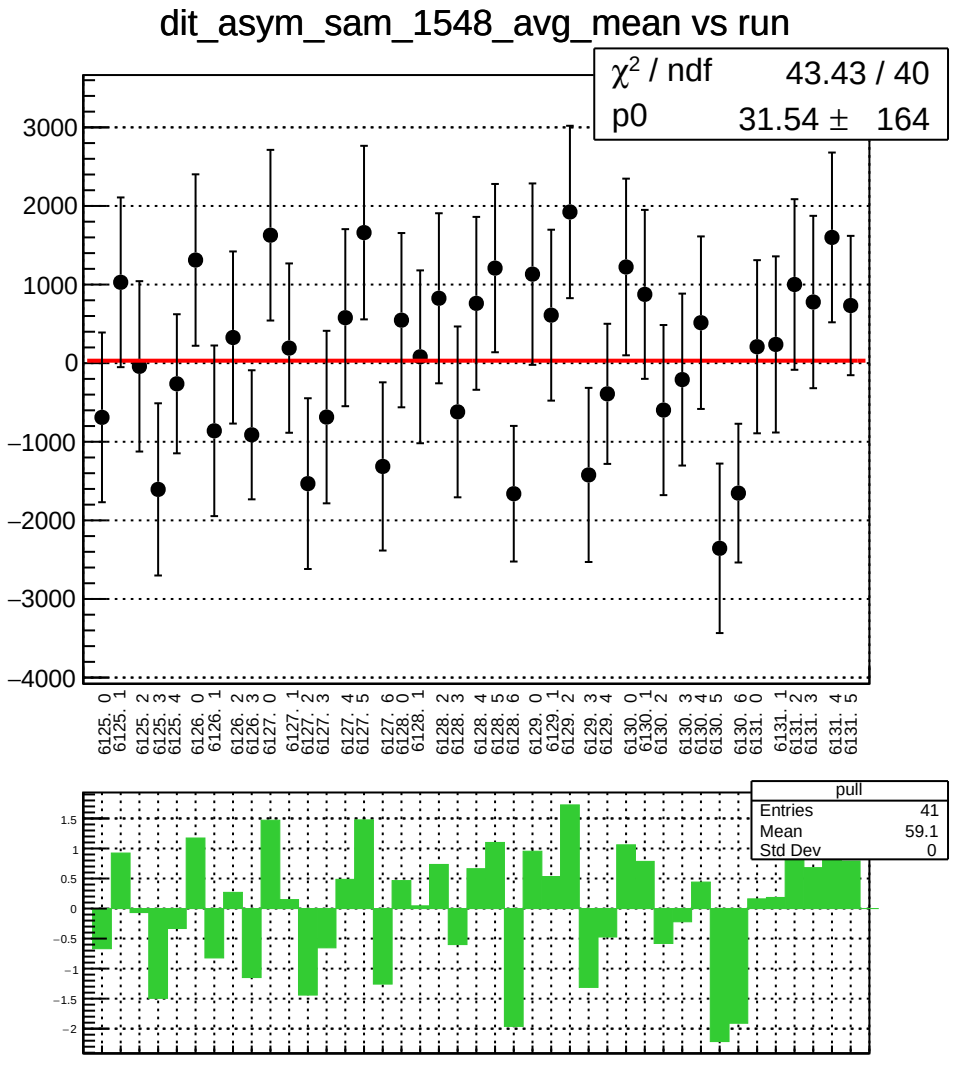
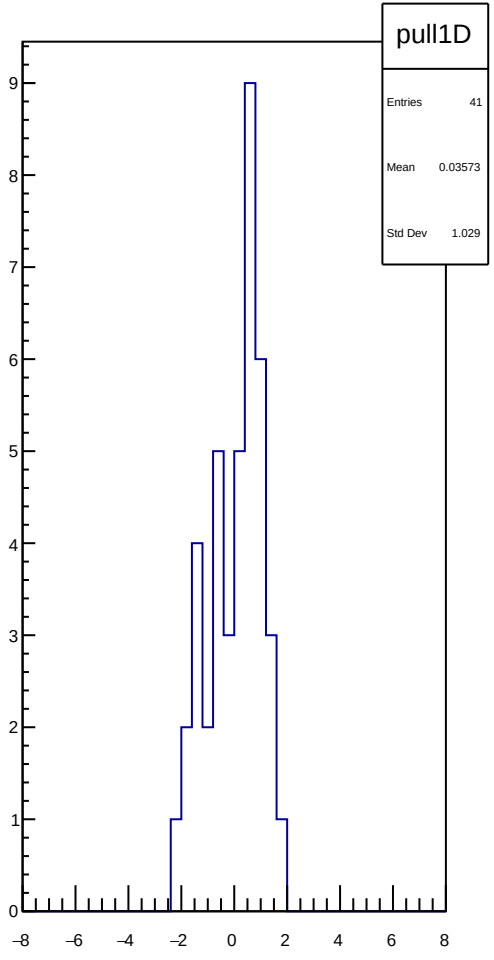
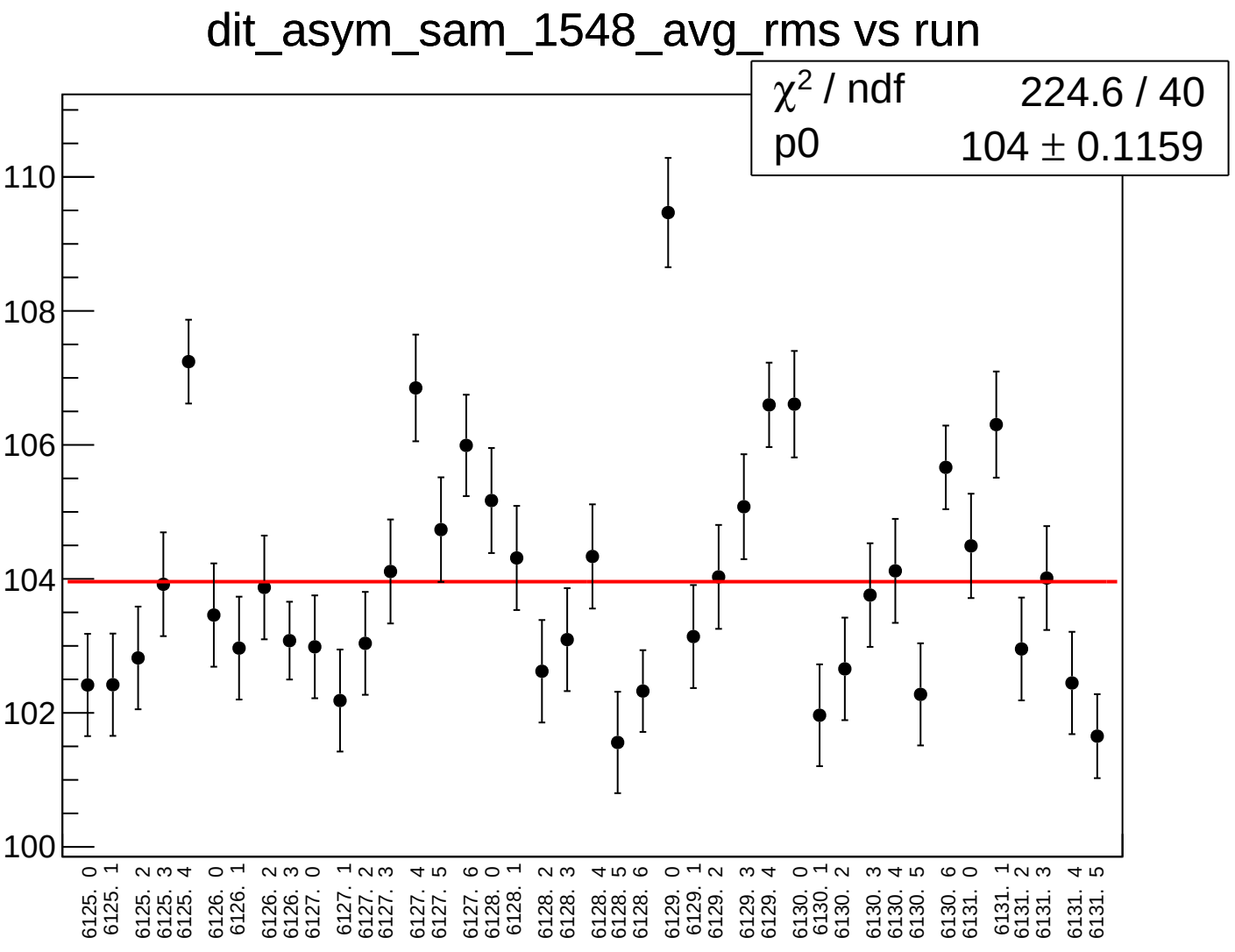
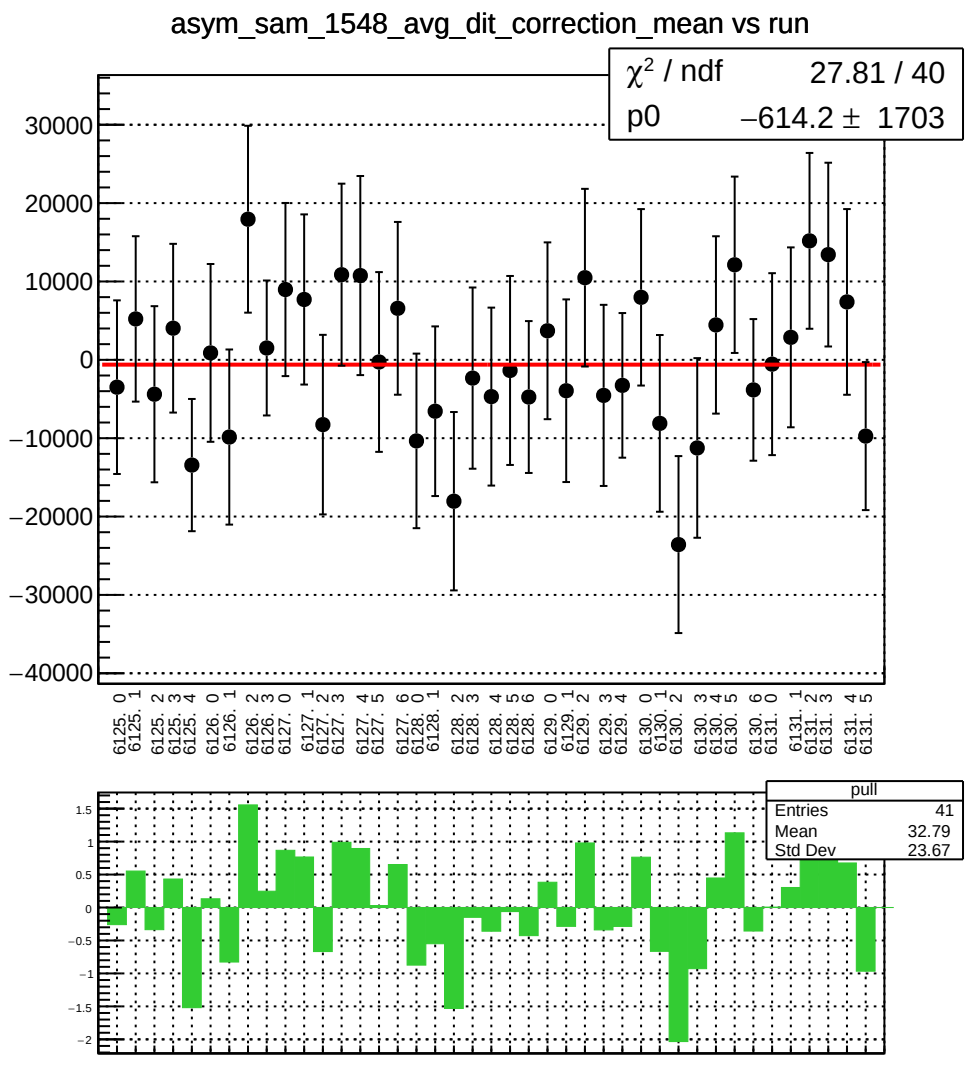
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

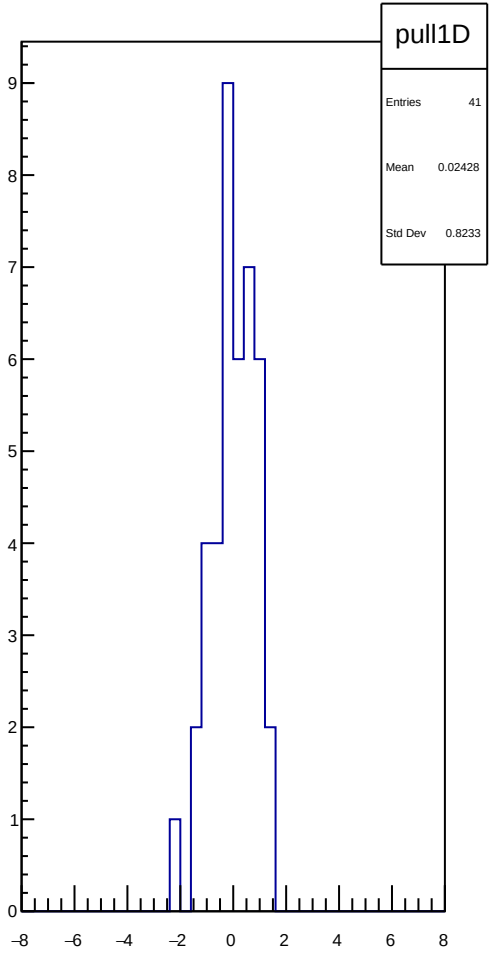

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 953.6 / 40
p0 1064 ± 1.187
1200
1150
1100
1050
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

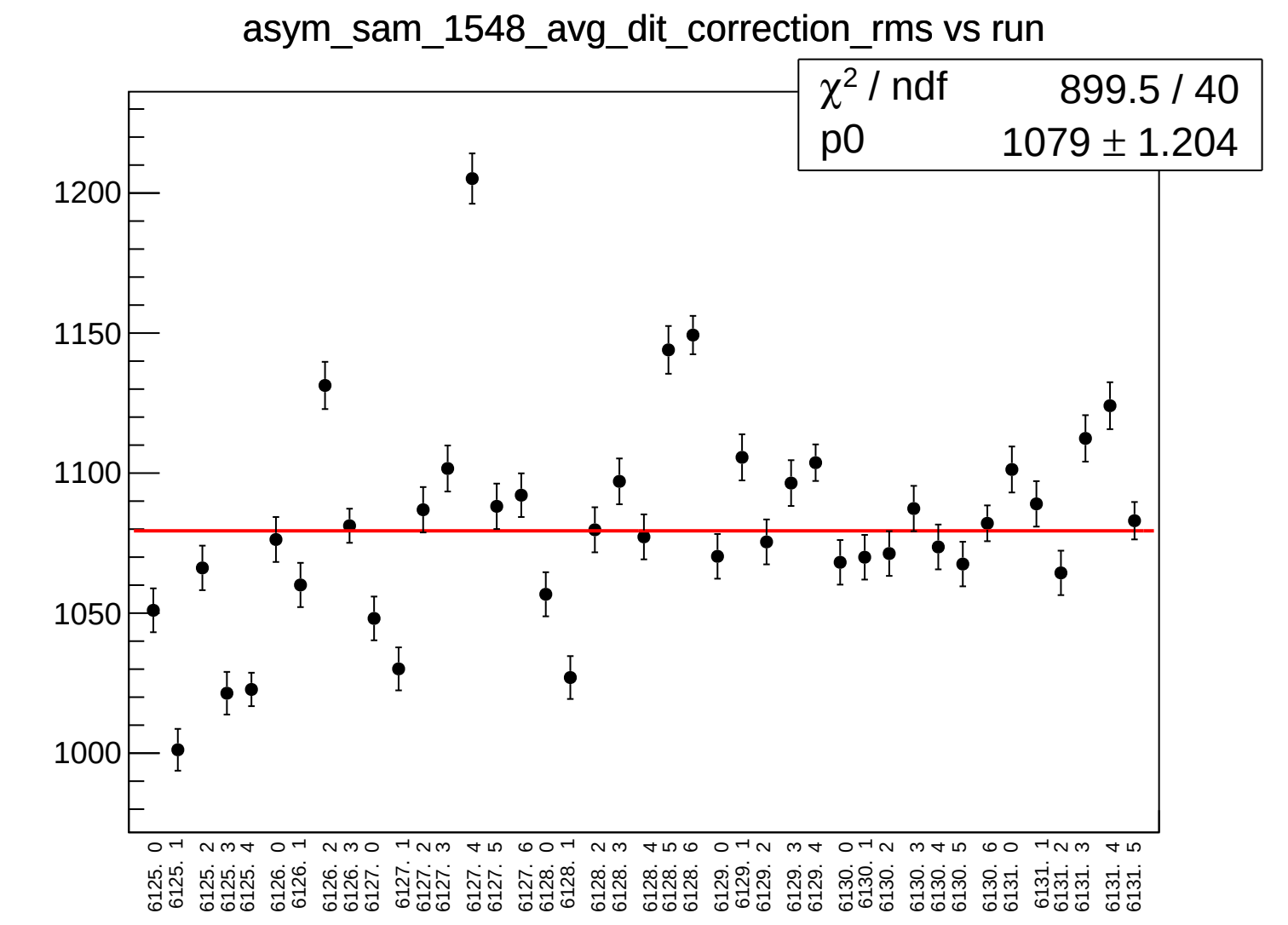

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 43.43 / 40
p0 31.54 ± 164
3000
2000
1000
0
−1000
−2000
−3000
−4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 59.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

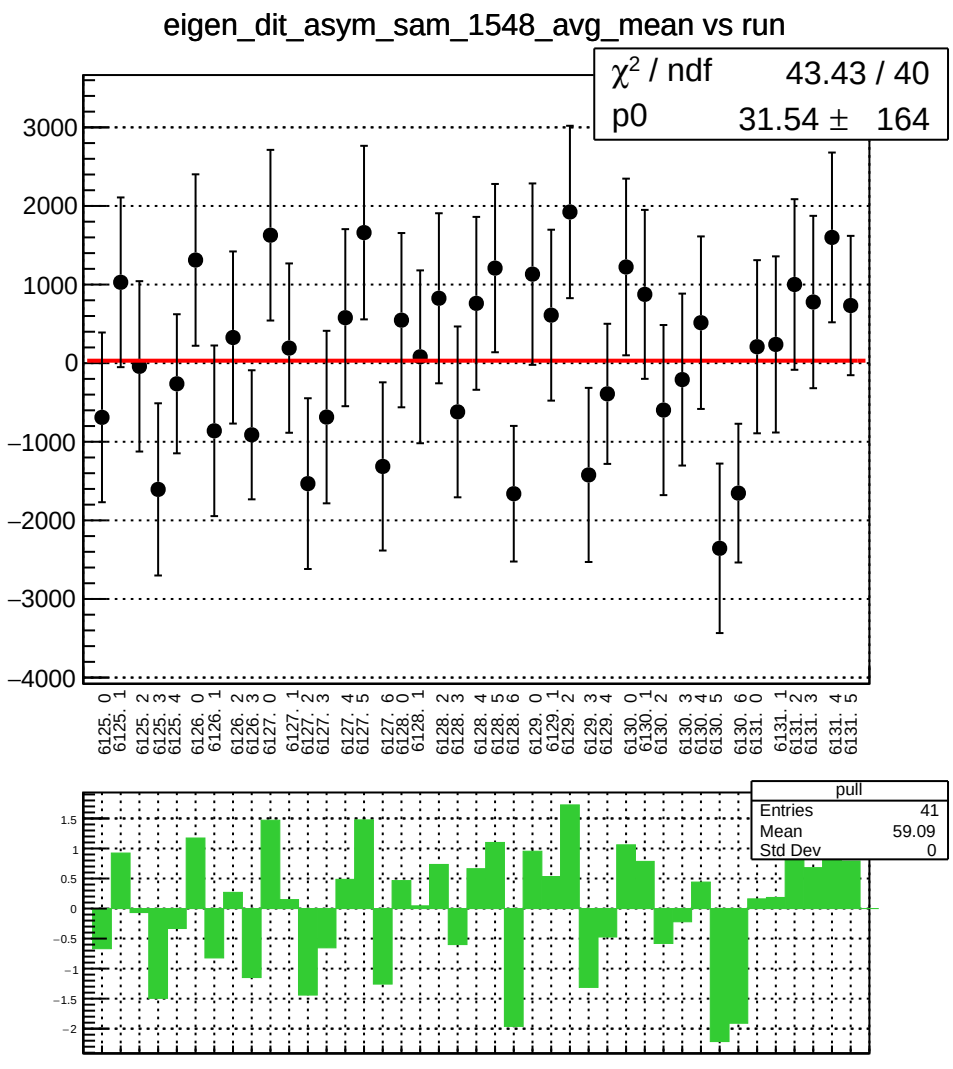

pull1D
Entries 41
Mean 0.03573
Std Dev 1.029
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

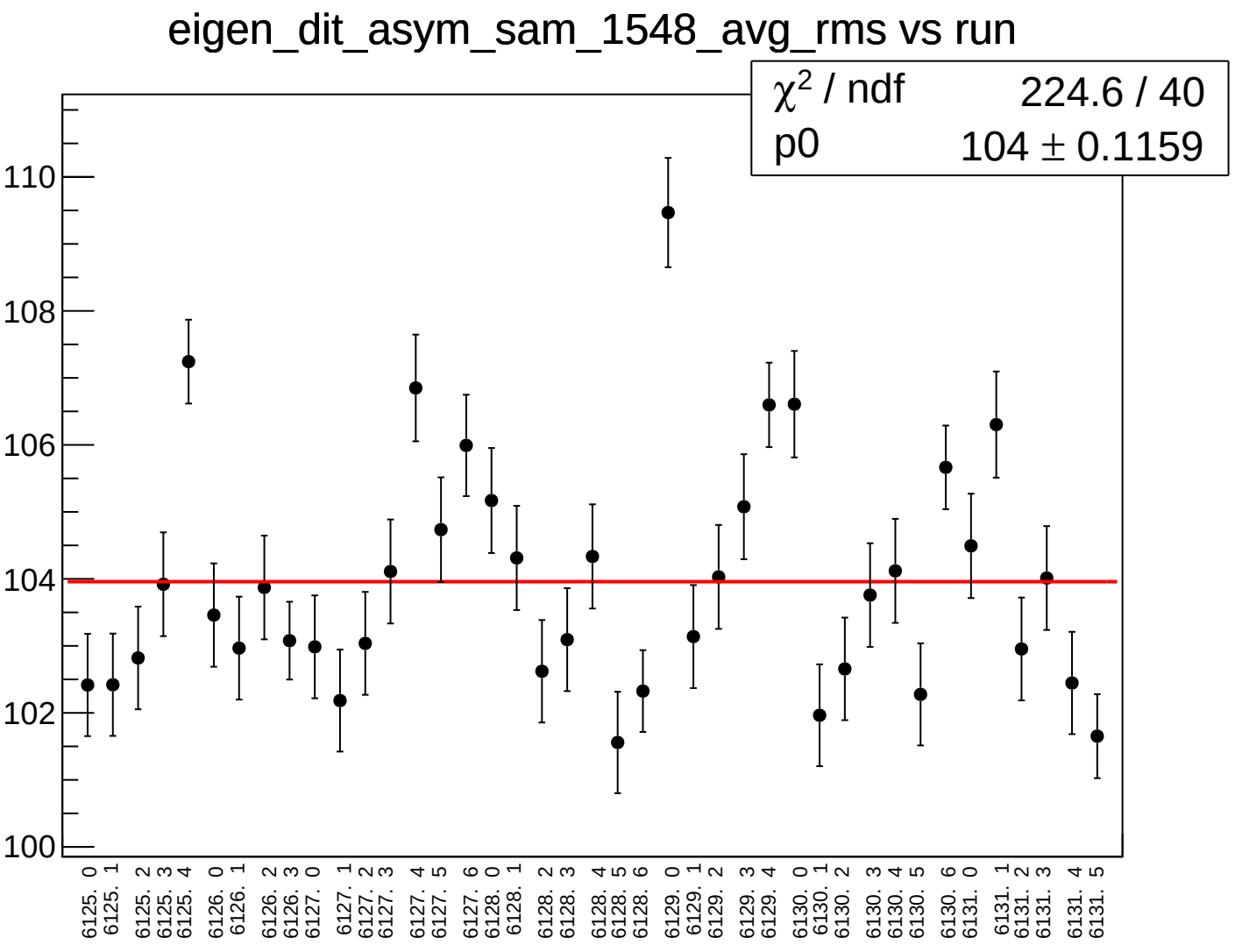

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 224.6 / 40
p0 104 ± 0.1159
110
108
106
104
102
100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 27.81 / 40
p0 −614.2 ± 1703
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 32.79
Std Dev 23.67
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.02428
Std Dev 0.8233
9
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 899.5 / 40
p0 1079 ± 1.204
1200
1150
1100
1050
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 43.43 / 40
p0 31.54 ± 164
3000
2000
1000
0
−1000
−2000
−3000
−4000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 59.09
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.03573
Std Dev 1.029
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 224.6 / 40
p0 104 ± 0.1159
110
108
106
104
102
100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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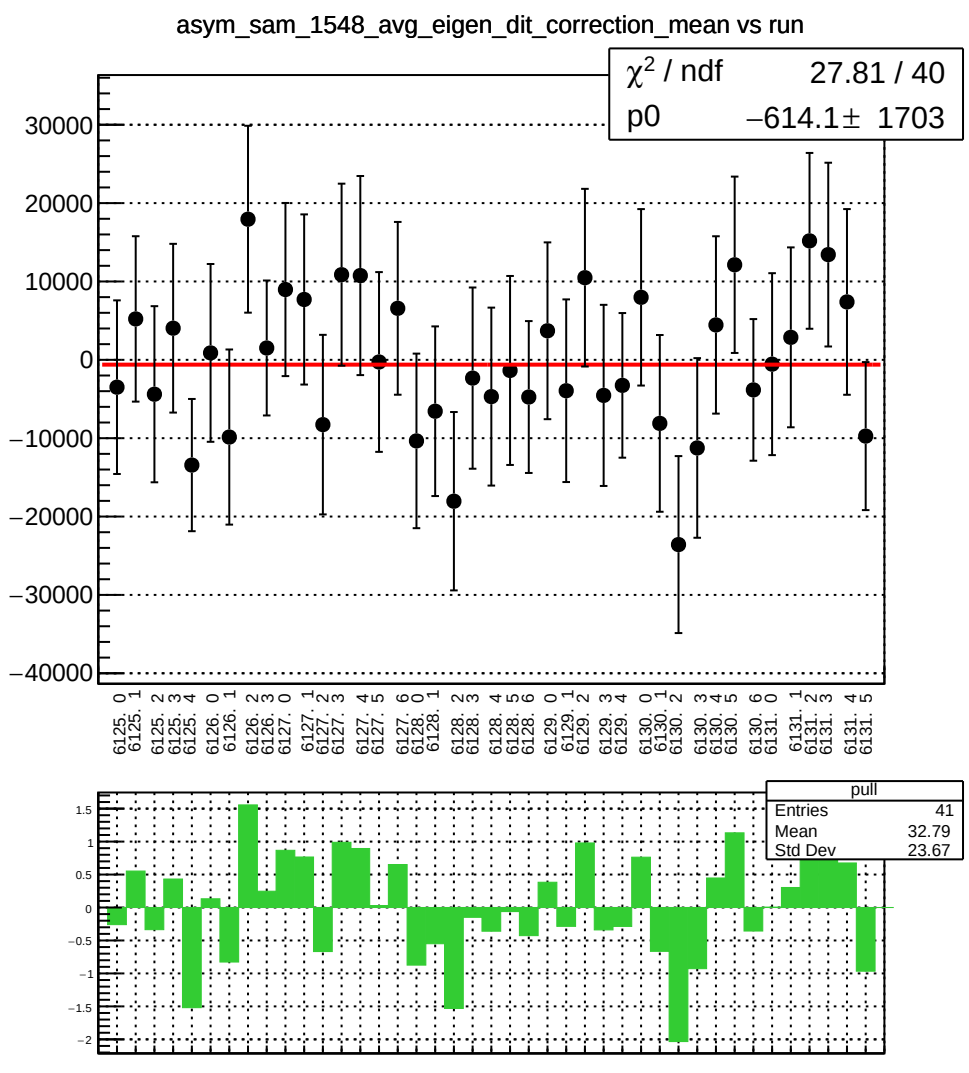
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 27.81 / 40
p0 −614.1± 1703
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
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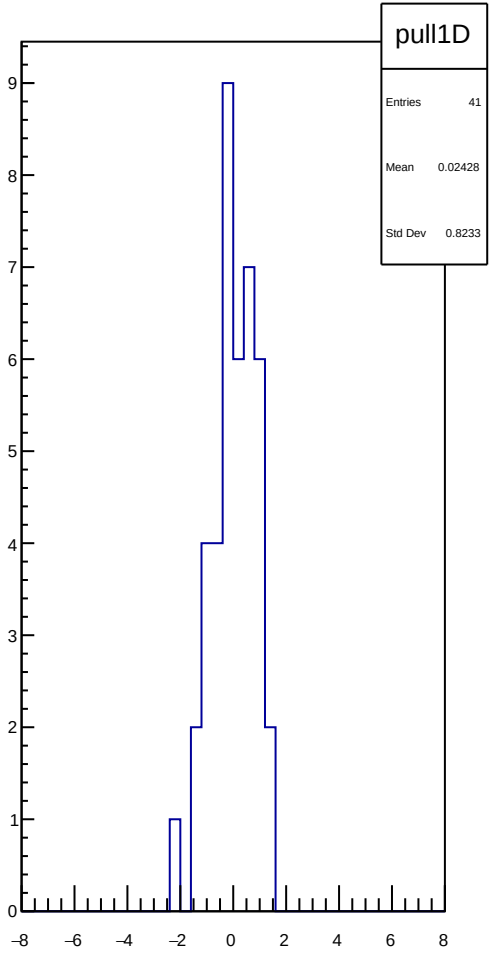
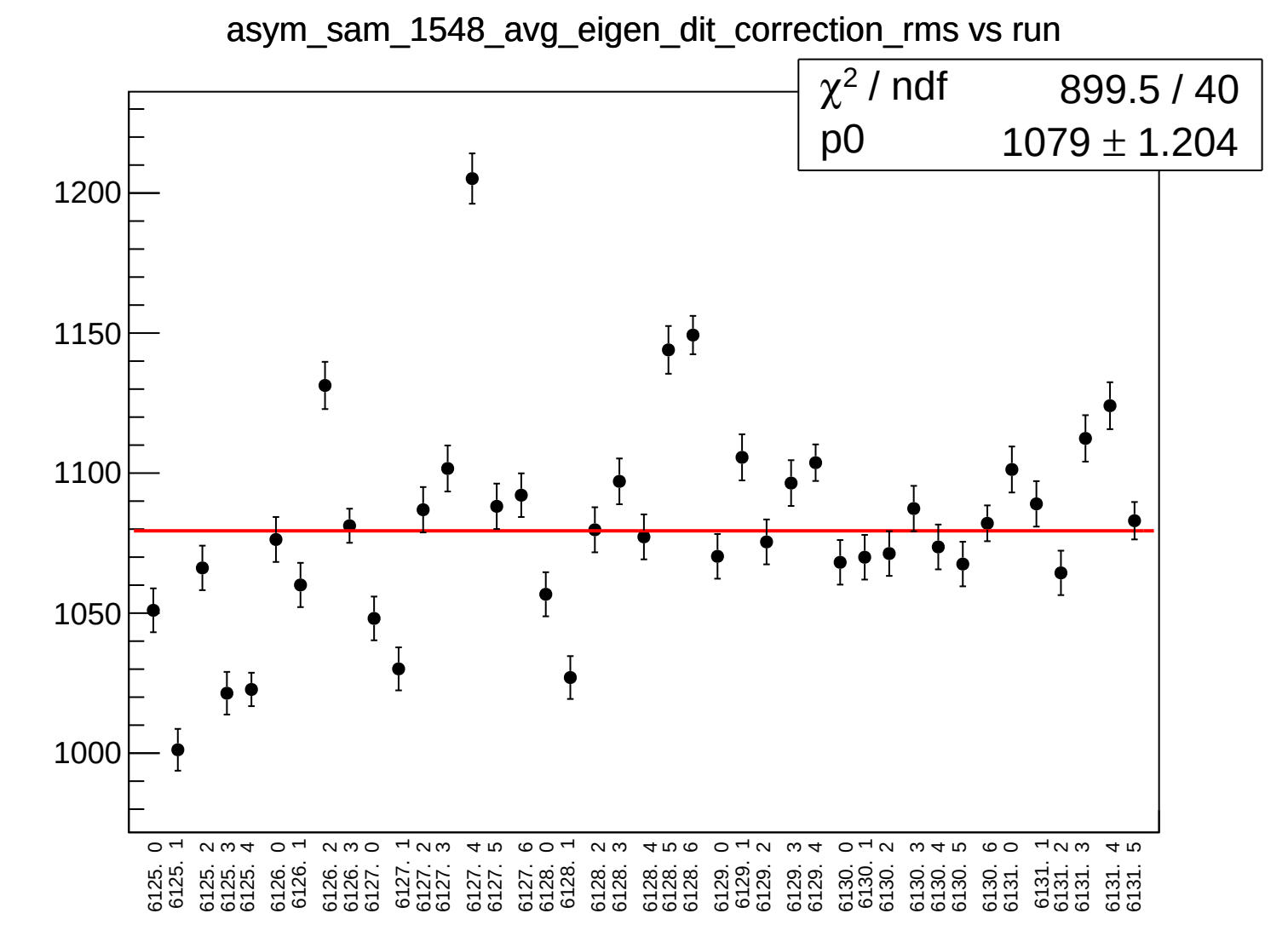
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 32.79
Std Dev 23.67
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.02428
Std Dev 0.8233
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 899.5 / 40
p0 1079 ± 1.204
1200
1150
1100
1050
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
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6128. 2
6128. 3
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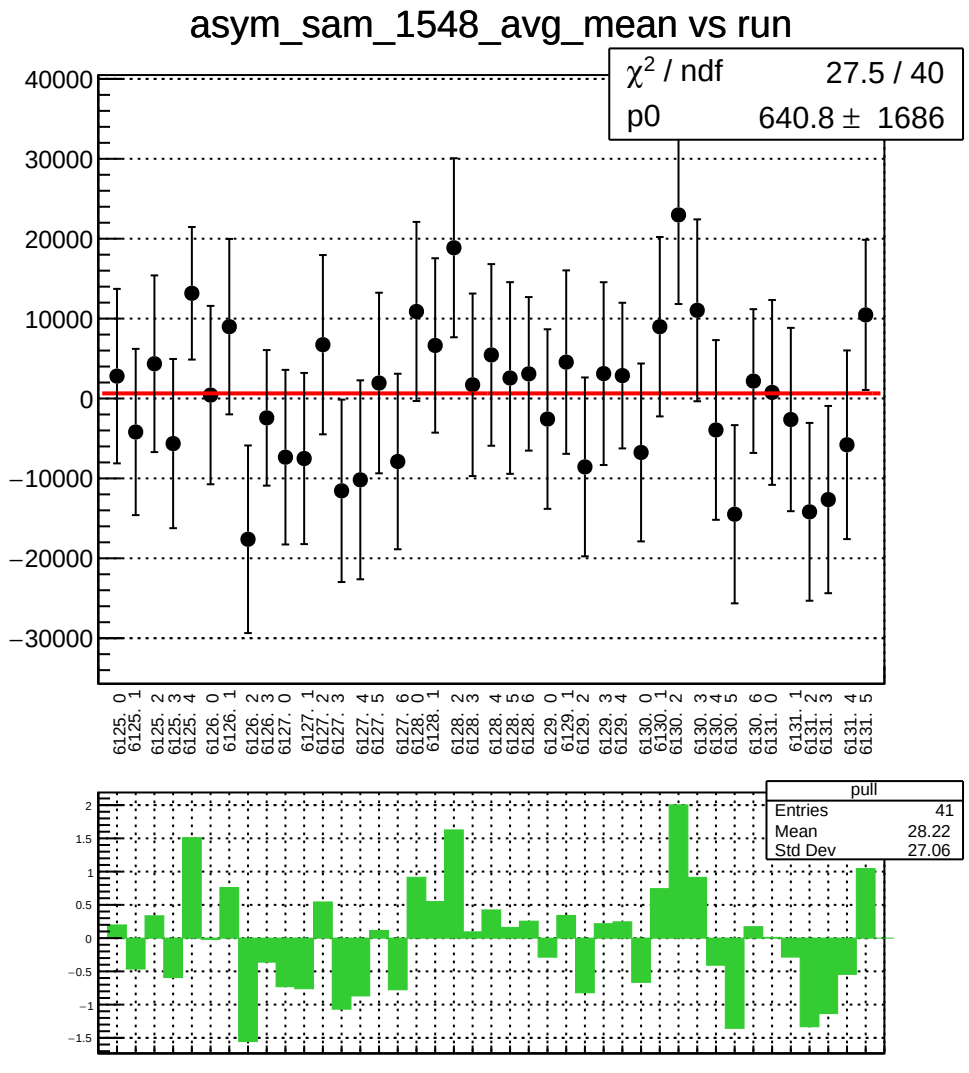
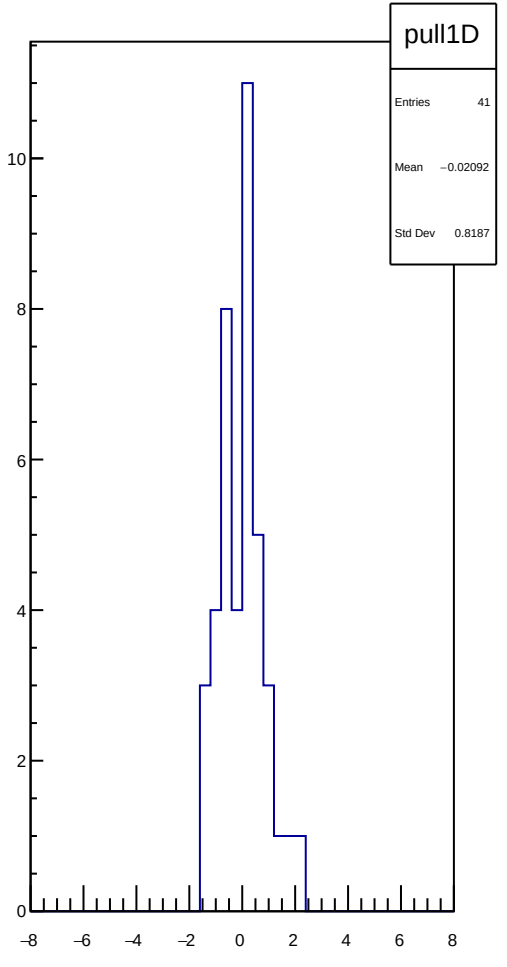
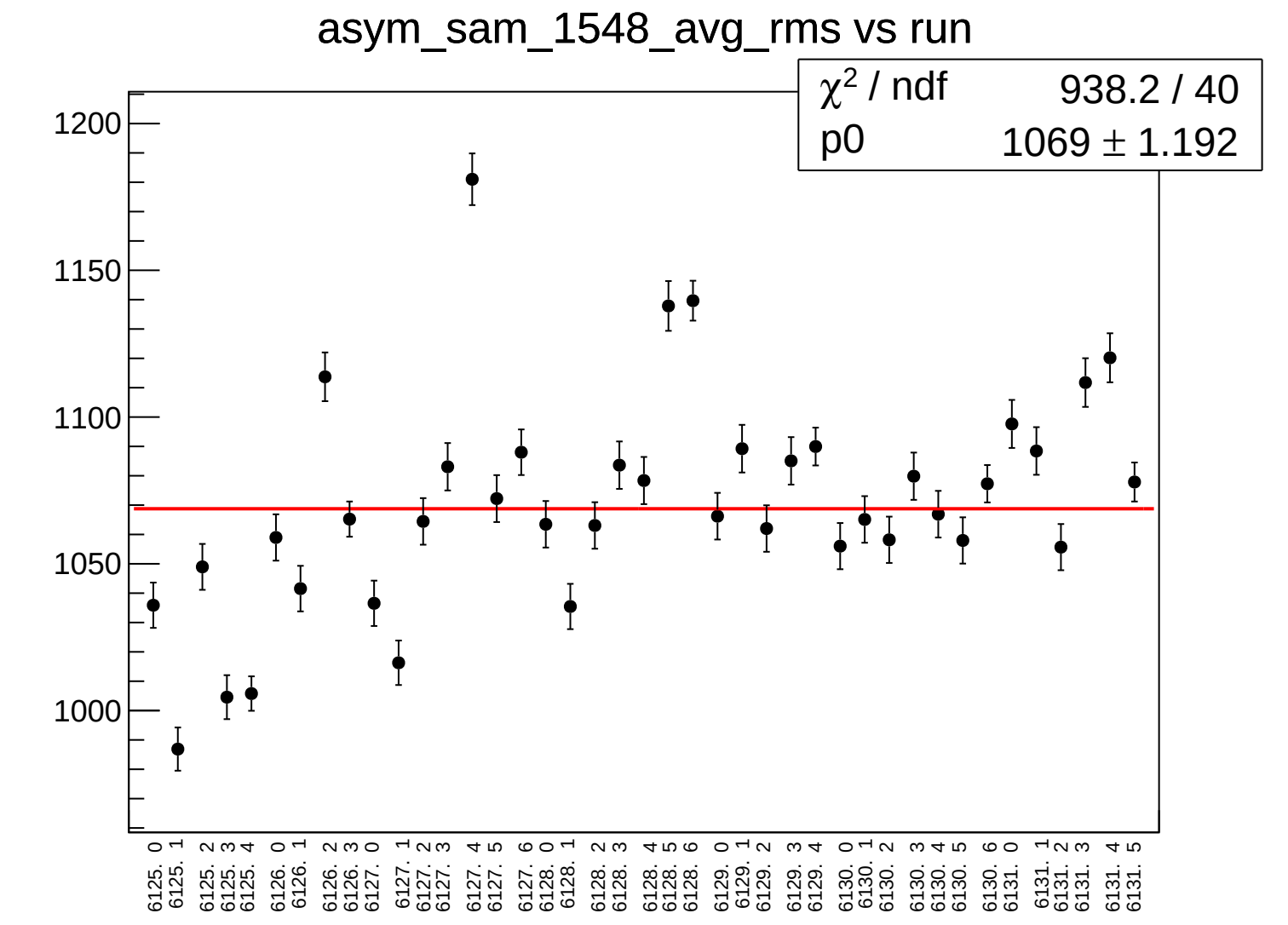
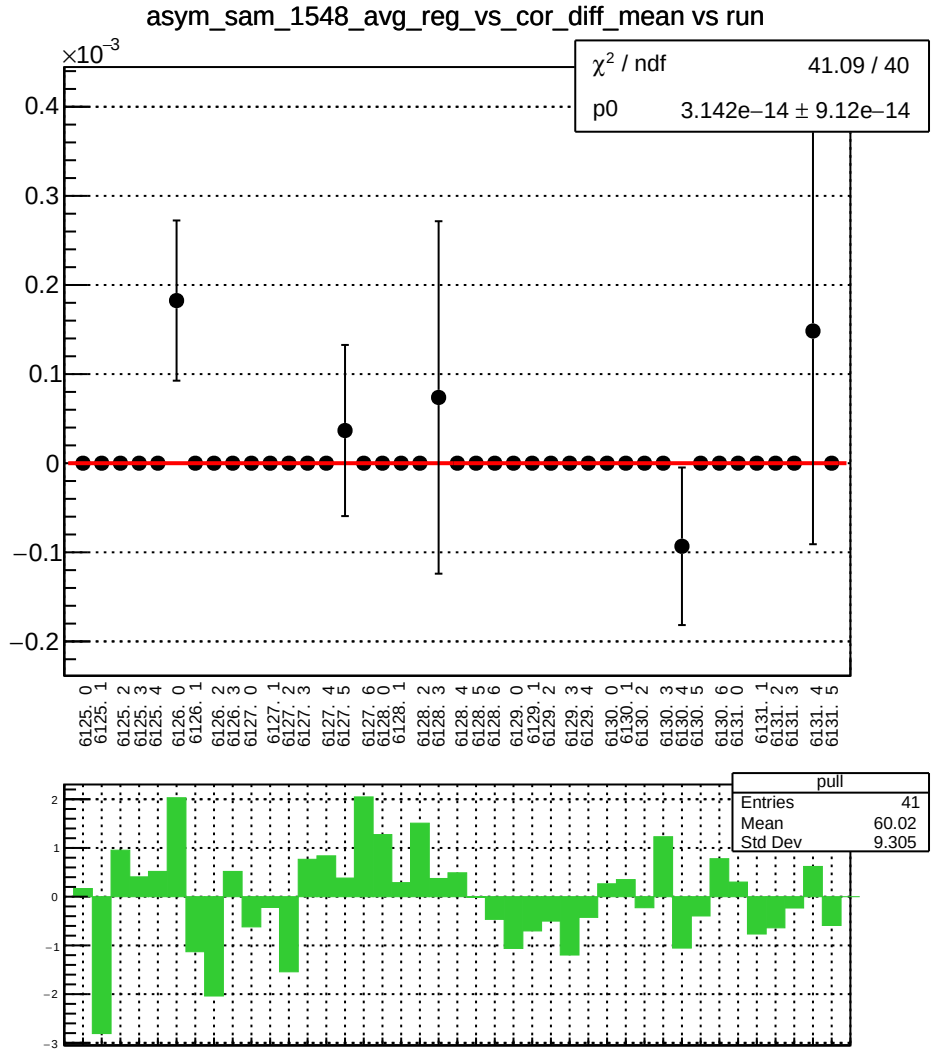
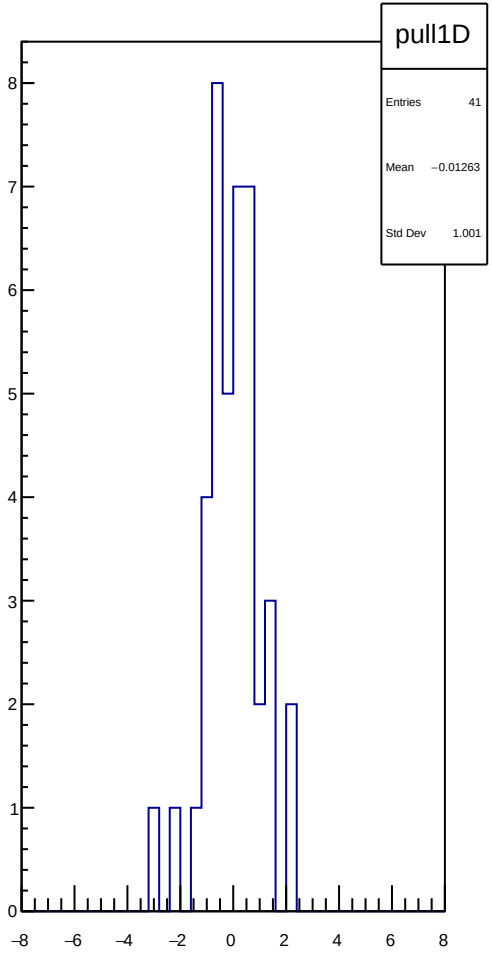
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

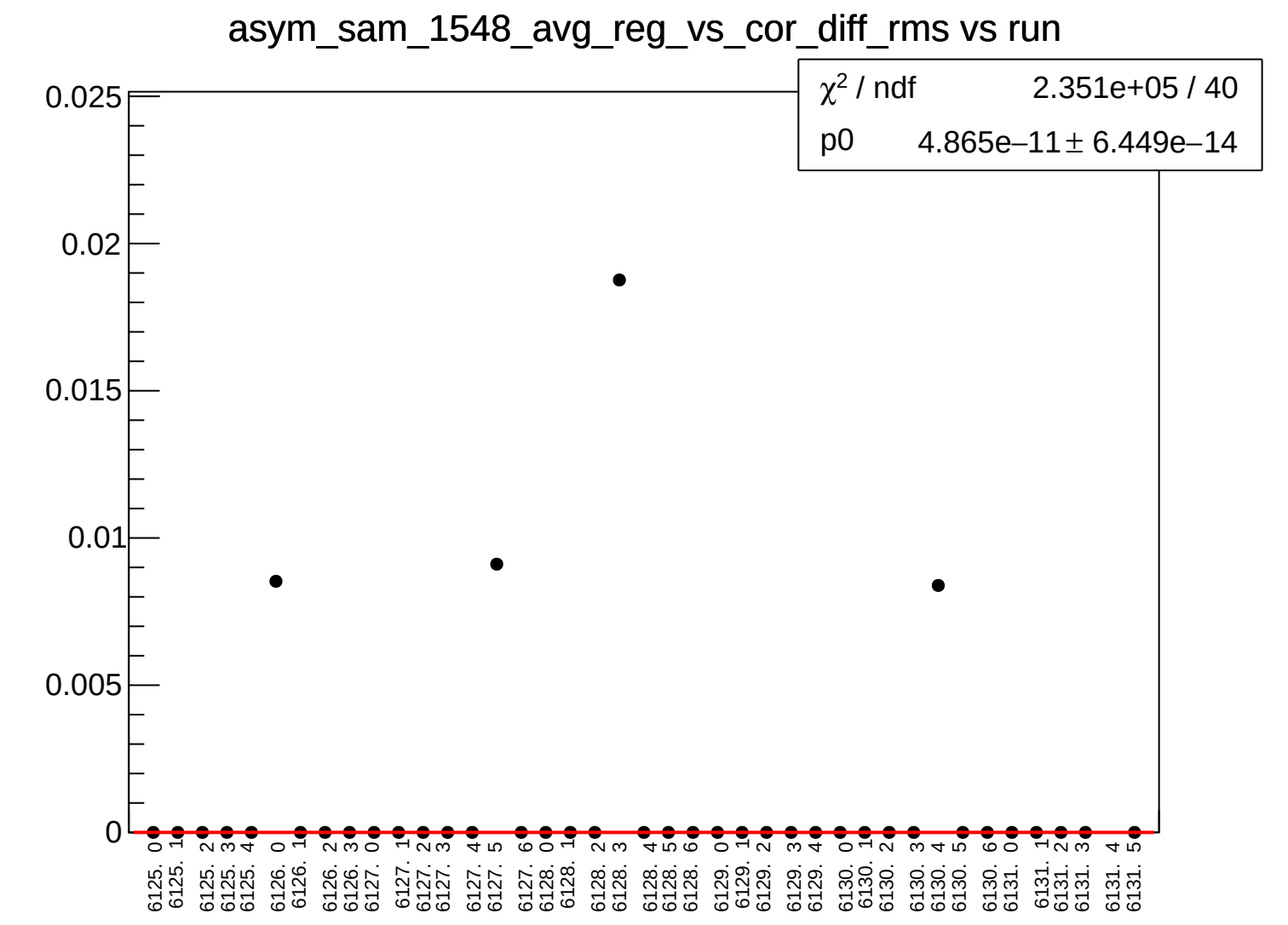

asym_sam_1548_avg_mean vs run
χ² / ndf 27.5 / 40
p0 640.8 ± 1686
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 28.22
Std Dev 27.06
2
1.5
1
0.5
0
−0.5
−1
−1.5

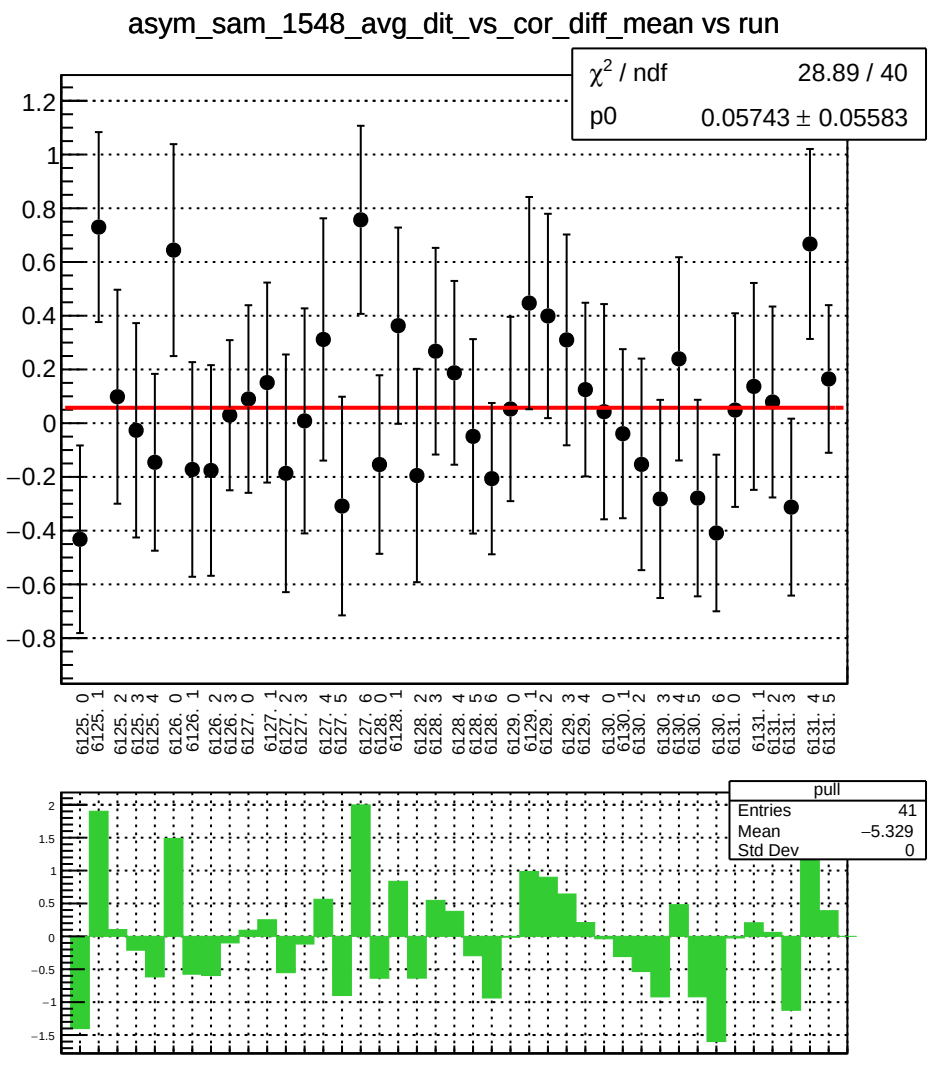

pull1D
Entries 41
Mean −0.02092
Std Dev 0.8187
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

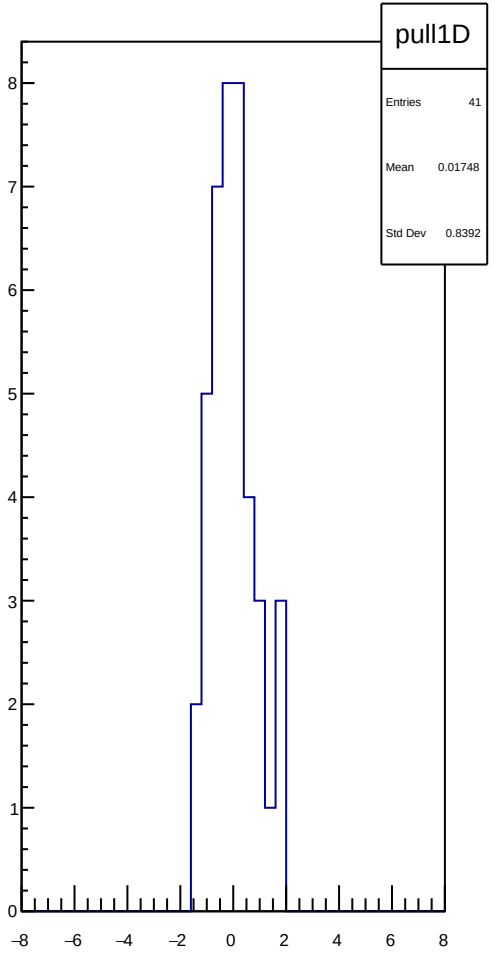

asym_sam_1548_avg_rms vs run
χ² / ndf 938.2 / 40
p0 1069 ± 1.192
1200
1150
1100
1050
1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

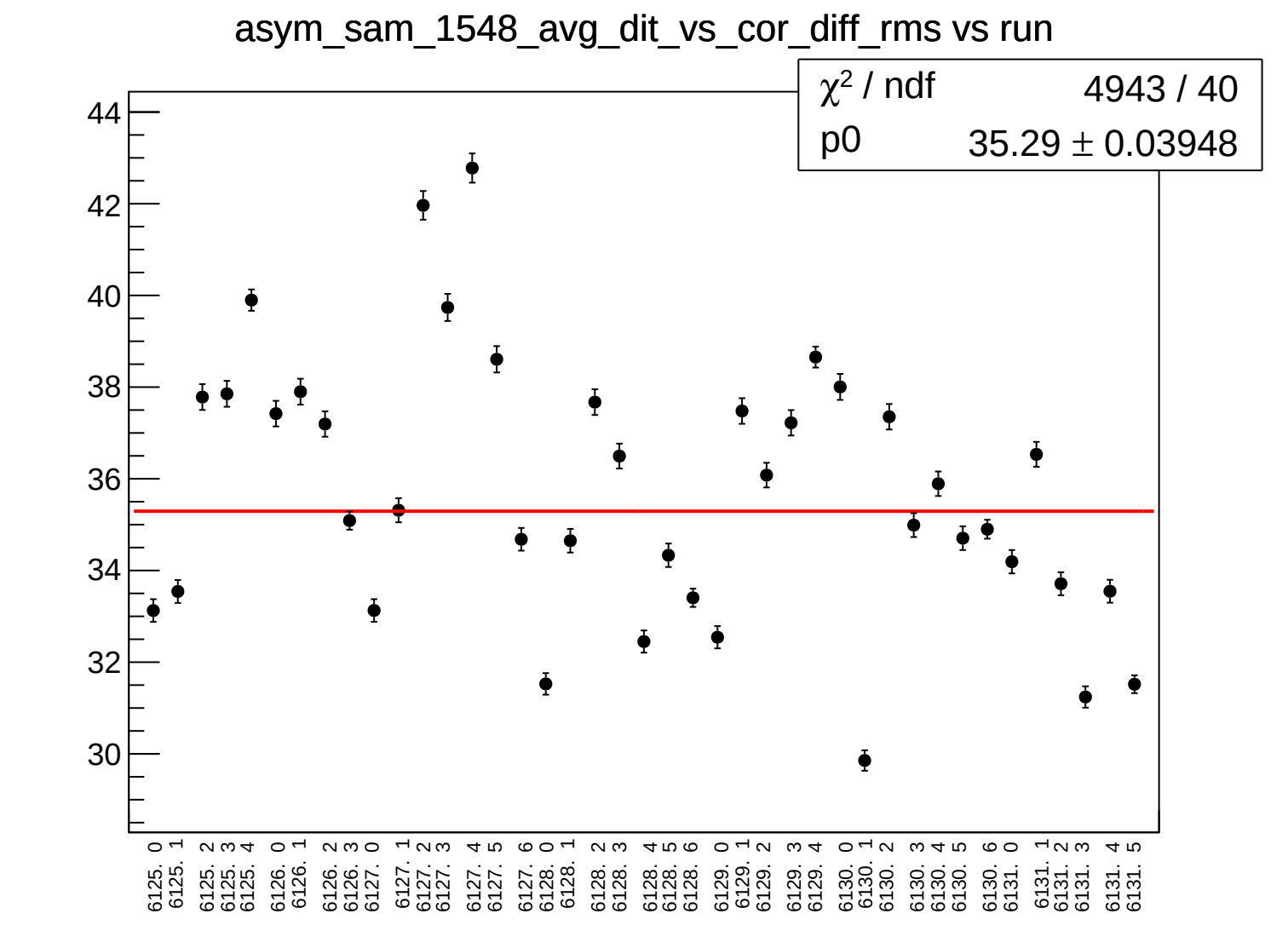

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 41.09 / 40
p0 3.142e−14 ± 9.12e−14
0.4
0.3
0.2
0.1
0
−0.1
−0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 60.02
Std Dev 9.305
2
1
0
−1
−2
−3

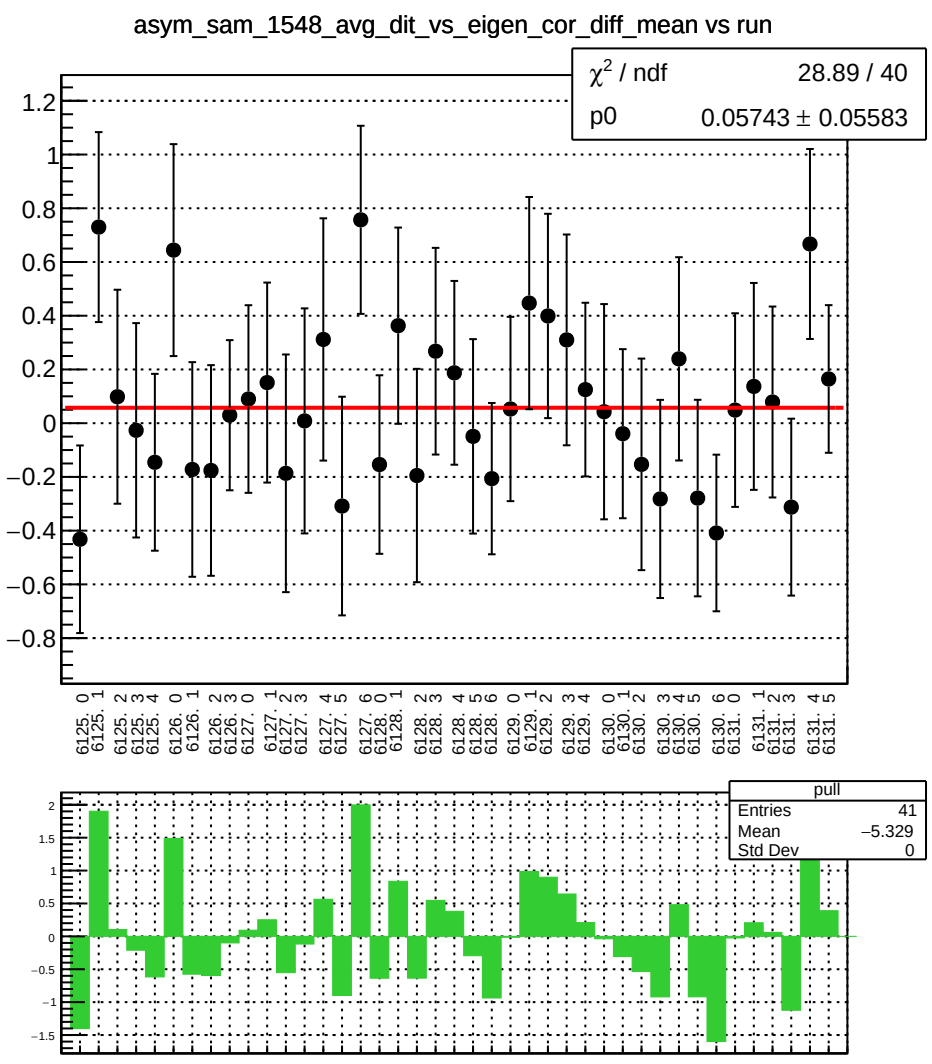

pull1D
Entries 41
Mean −0.01263
Std Dev 1.001
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

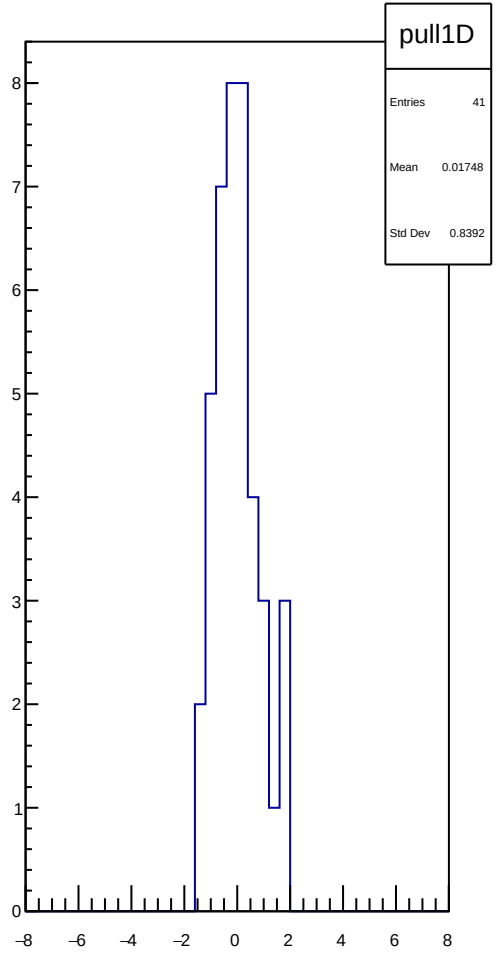

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.351e+05 / 40
p0 4.865e−11 ± 6.449e−14
0.025
0.02
0.015
0.01
0.005
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

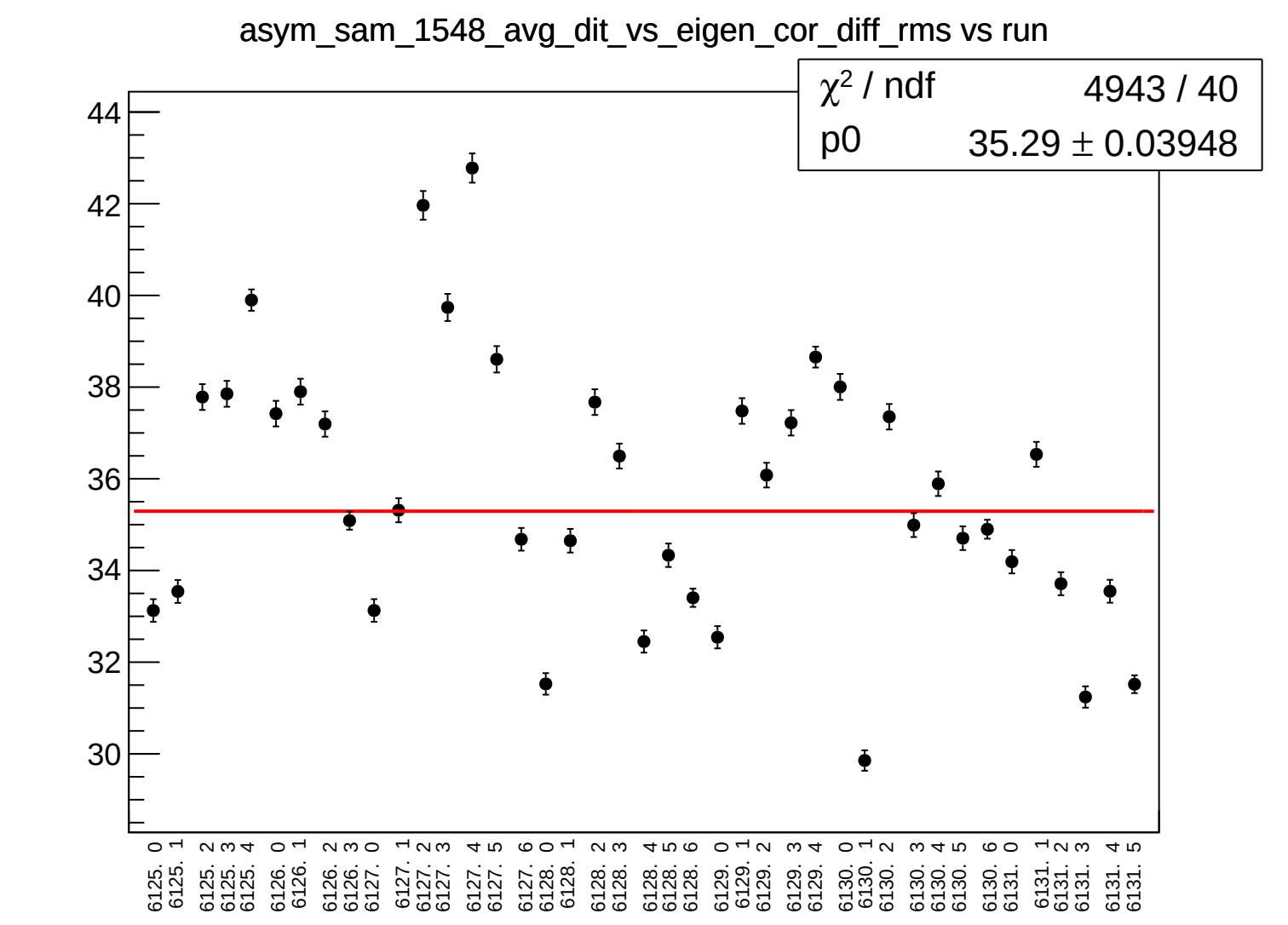

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 28.89 / 40
p0 0.05743 ± 0.05583
pull
Entries 41
Mean −5.329
Std Dev 0

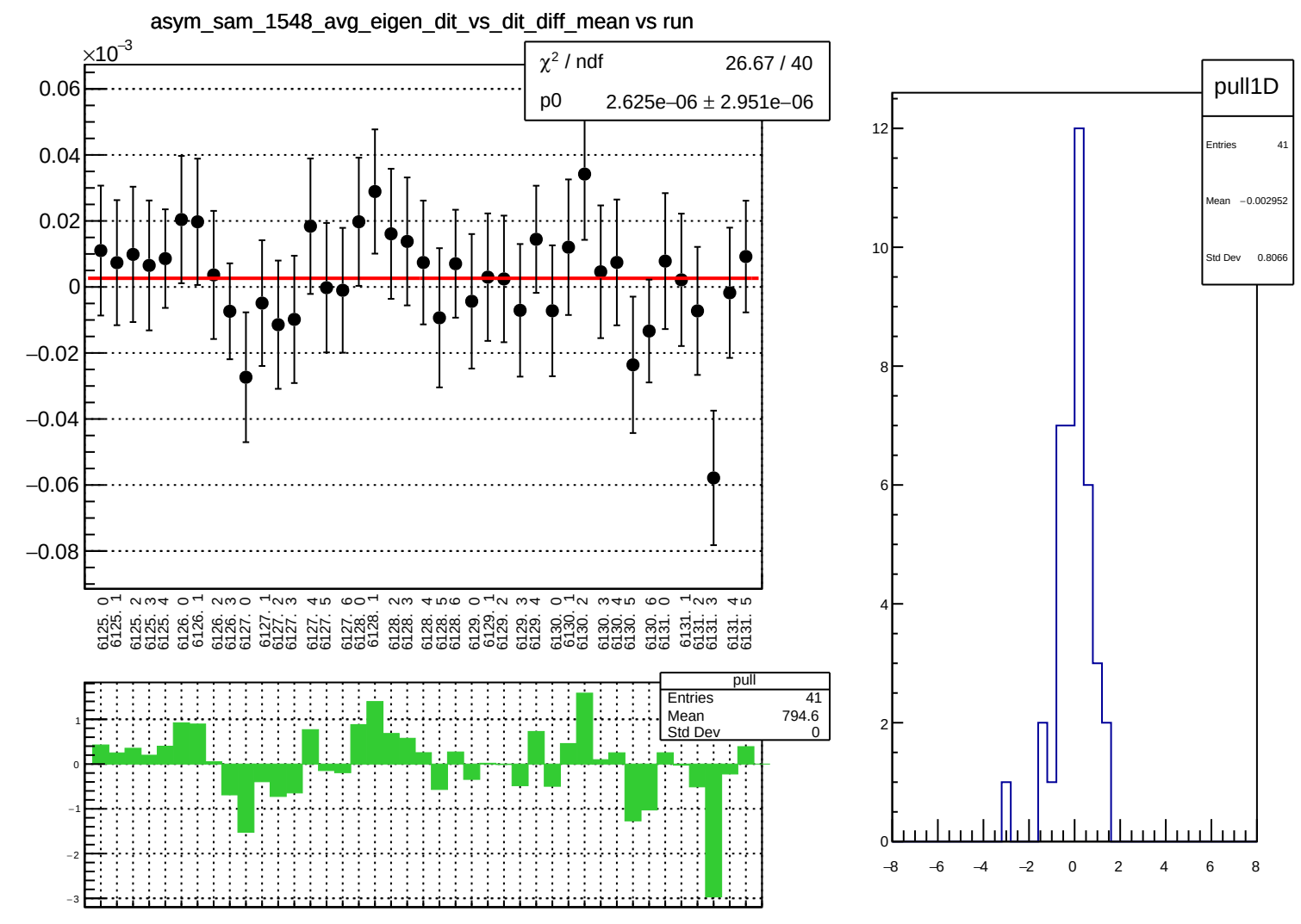

pull1D
Entries 41
Mean 0.01748
Std Dev 0.8392

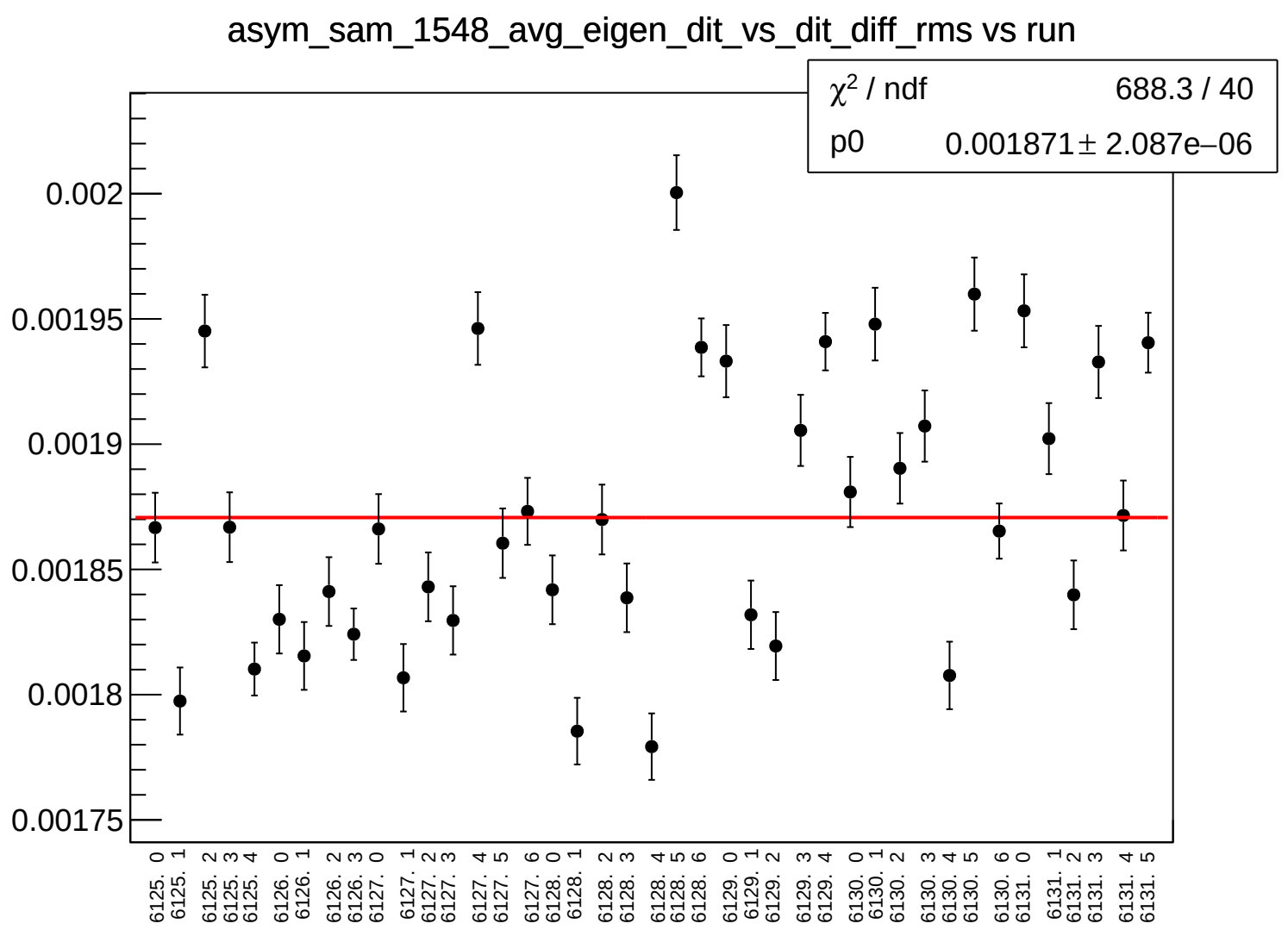

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4943 / 40
p0 35.29 ± 0.03948
44
42
40
38
36
34
32
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

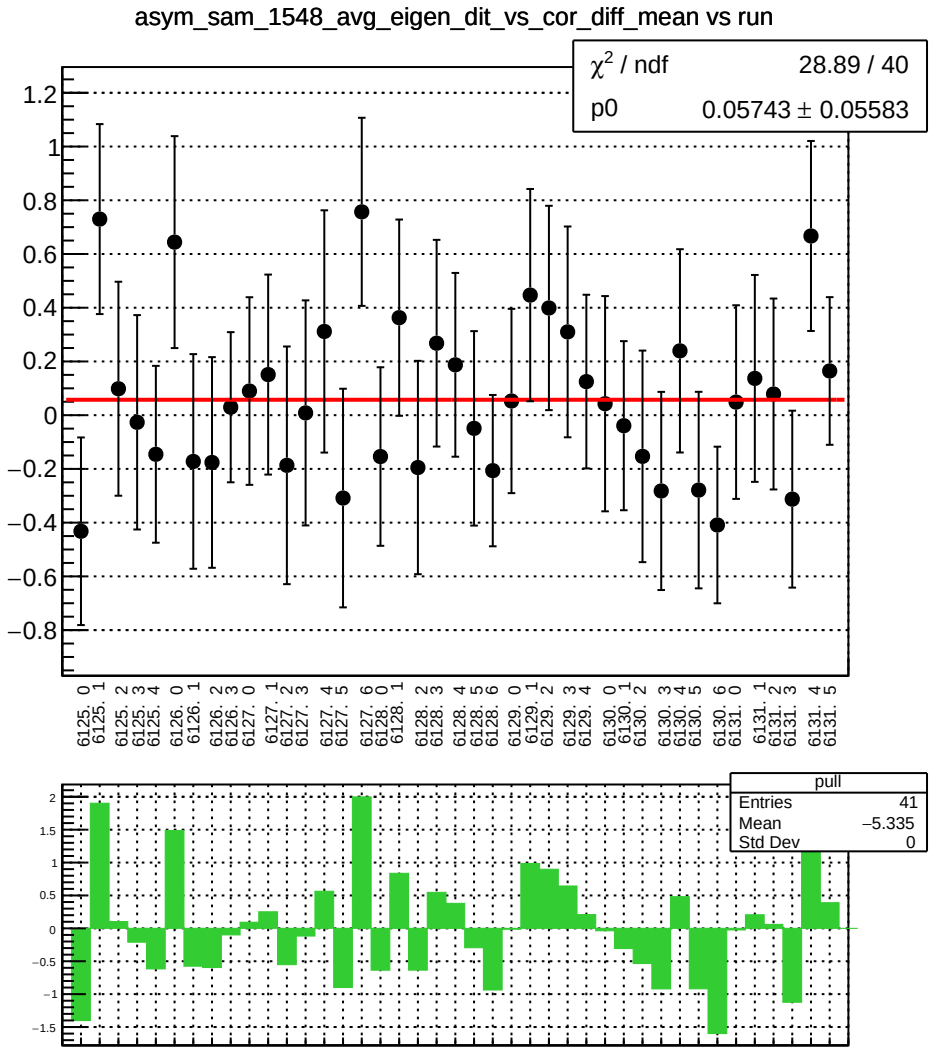

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.89 / 40
p0 0.05743 ± 0.05583
pull
Entries 41
Mean −5.329
Std Dev 0

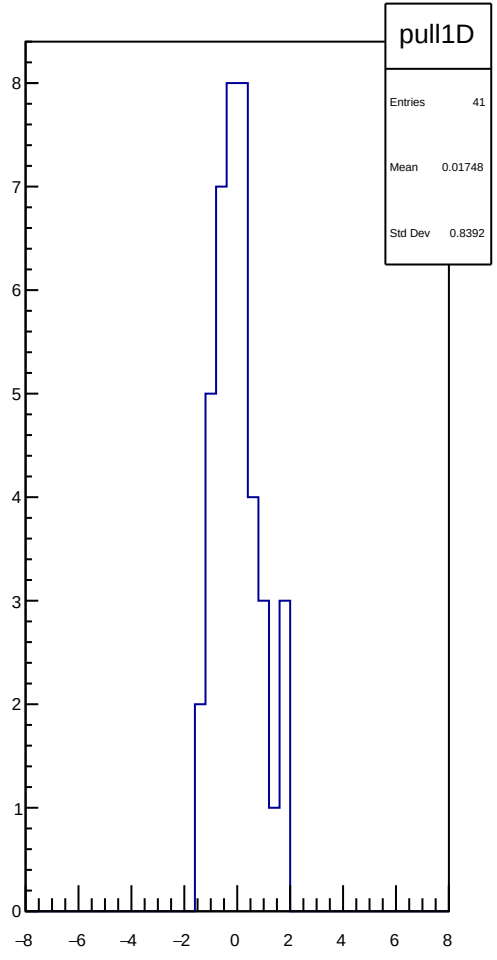

pull1D
Entries 41
Mean 0.01748
Std Dev 0.8392

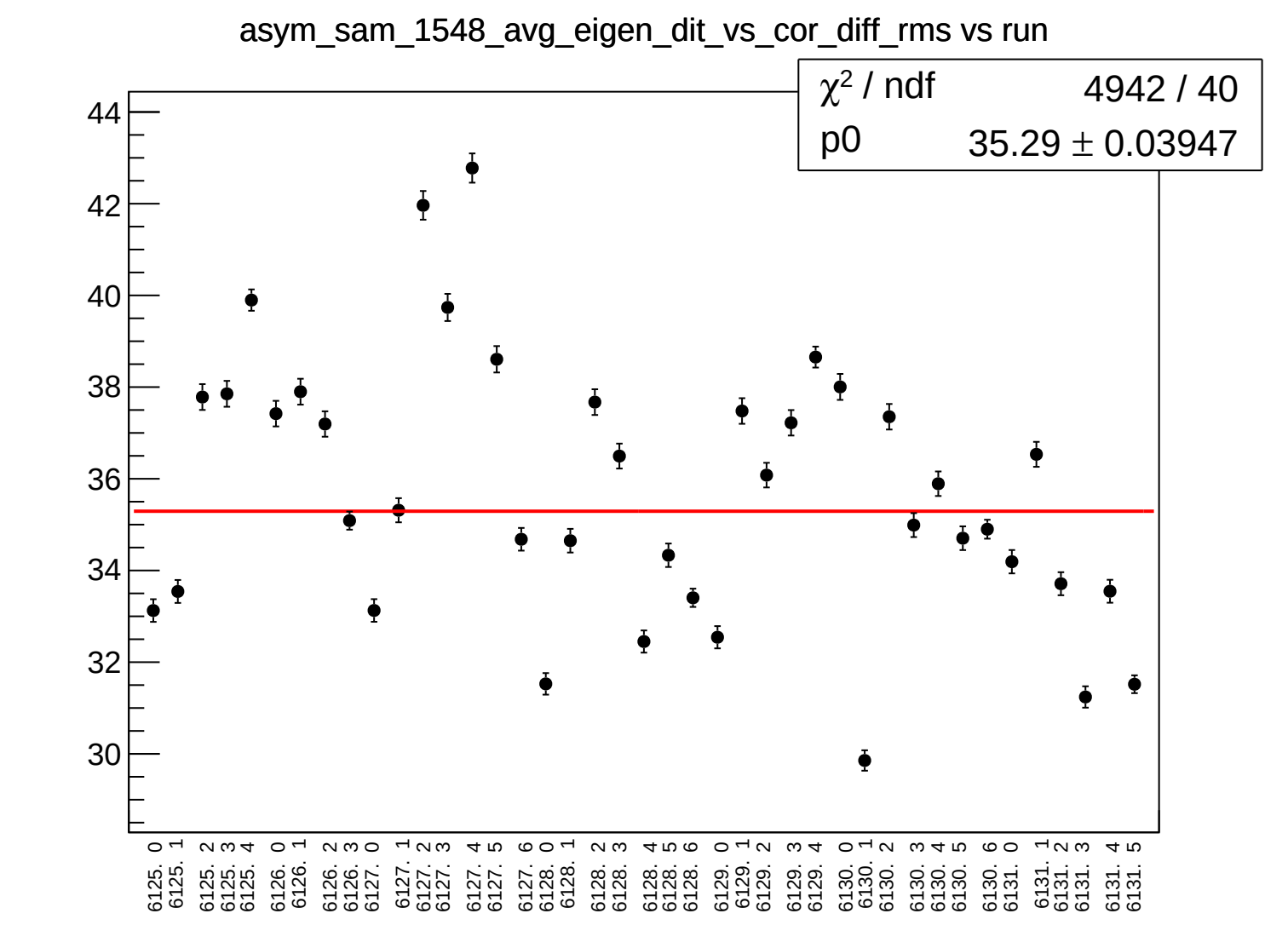

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4943 / 40
p0 35.29 ± 0.03948
44
42
40
38
36
34
32
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

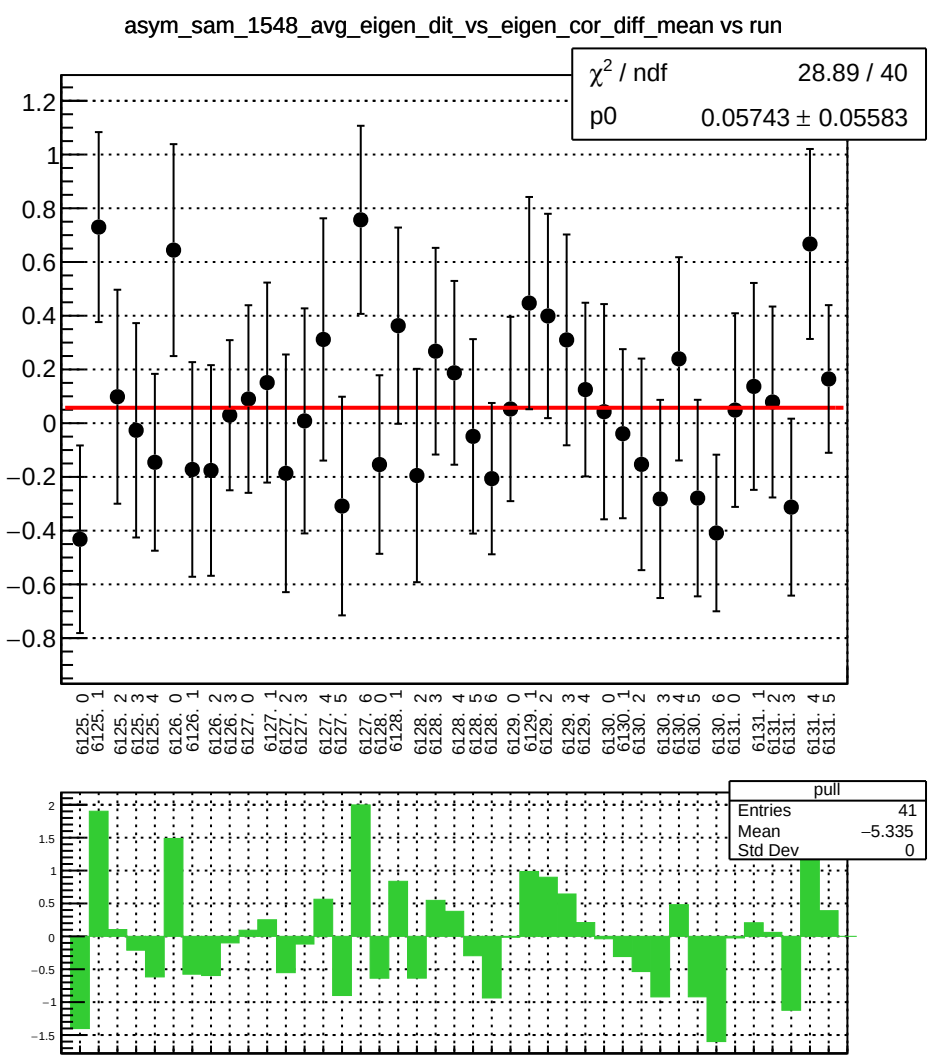

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 26.67 / 40
p0 2.625e−06 ± 2.951e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 794.6
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 41
Mean −0.002952
Std Dev 0.8066
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

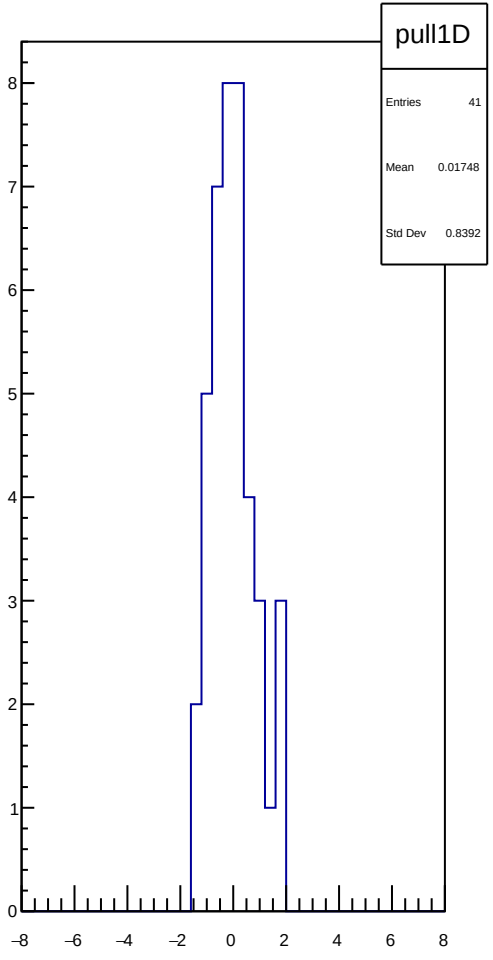

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 688.3 / 40
p0 0.001871 ± 2.087e−06
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

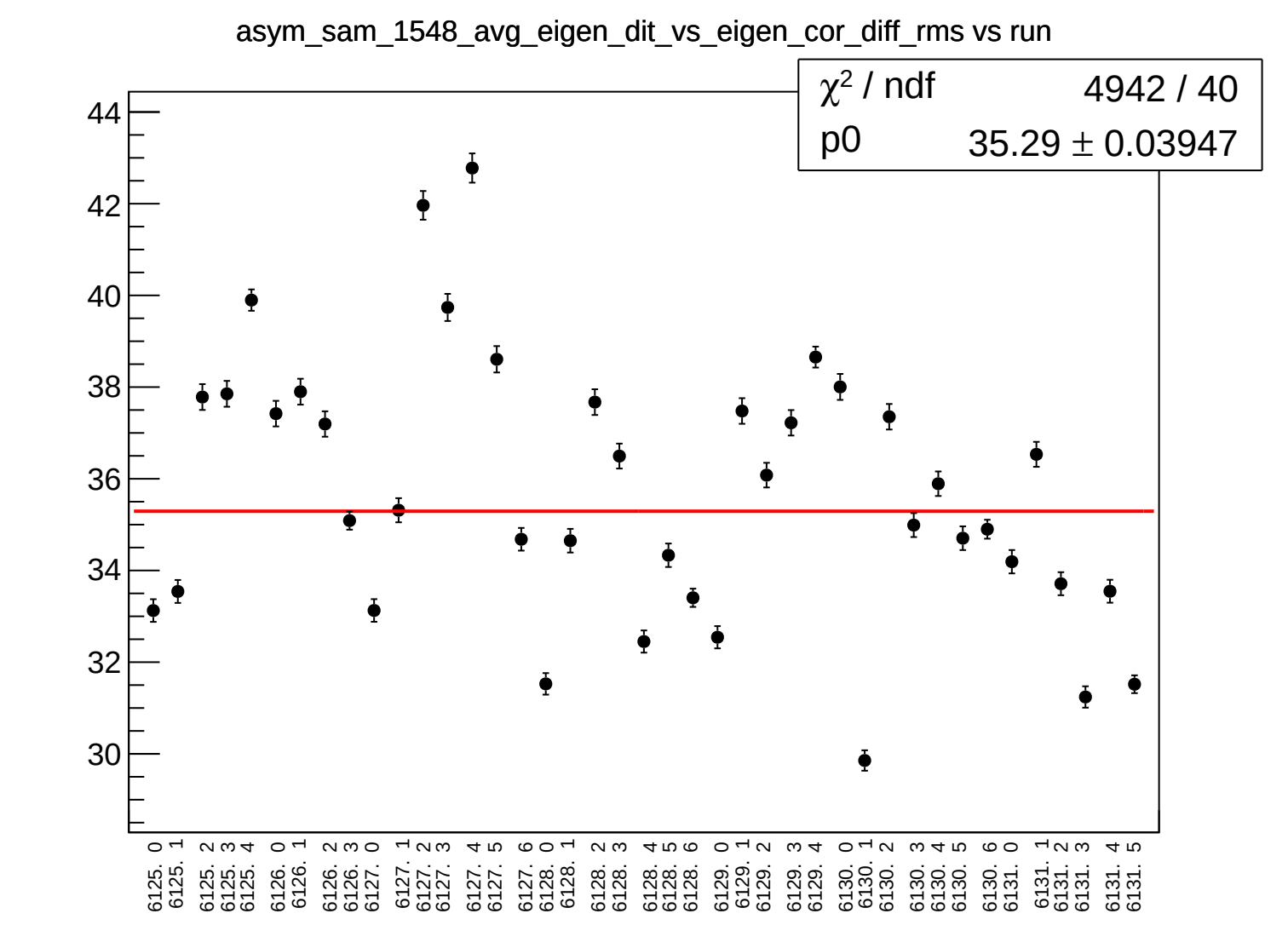

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 28.89 / 40
p0 0.05743 ± 0.05583
pull
Entries 41
Mean −5.335
Std Dev 0

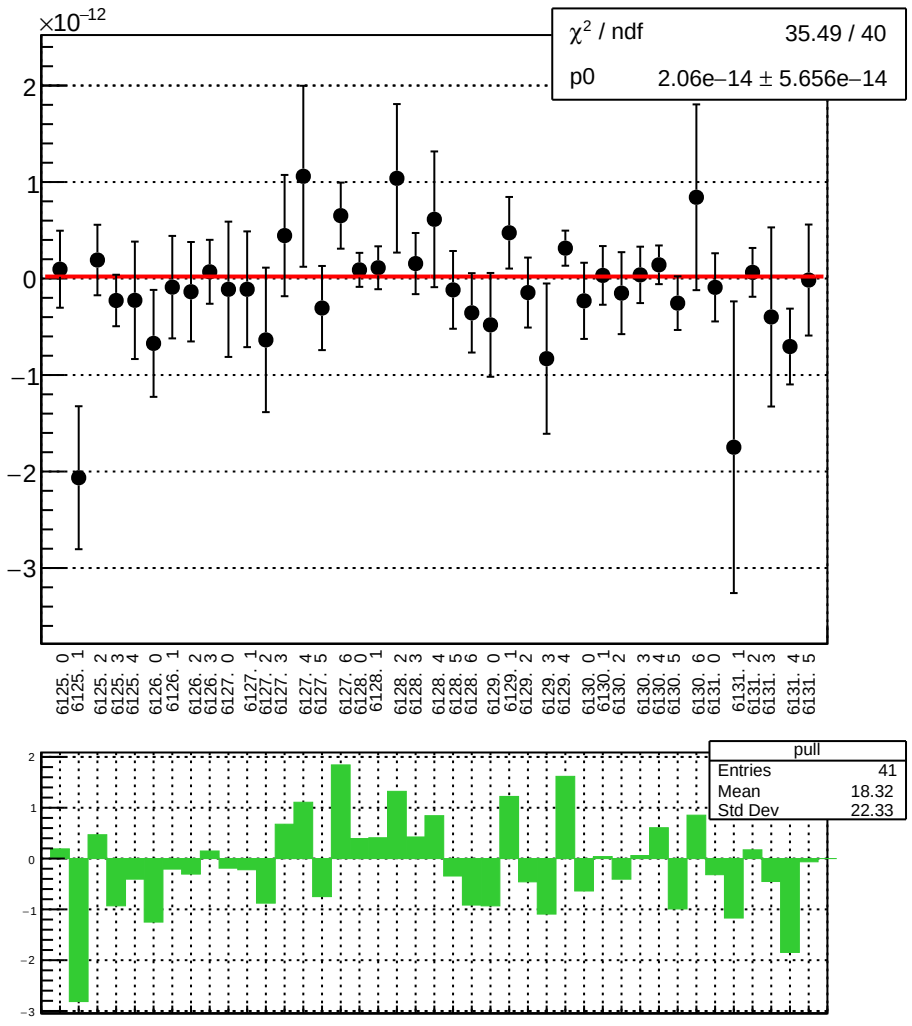

pull1D
Entries 41
Mean 0.01748
Std Dev 0.8392

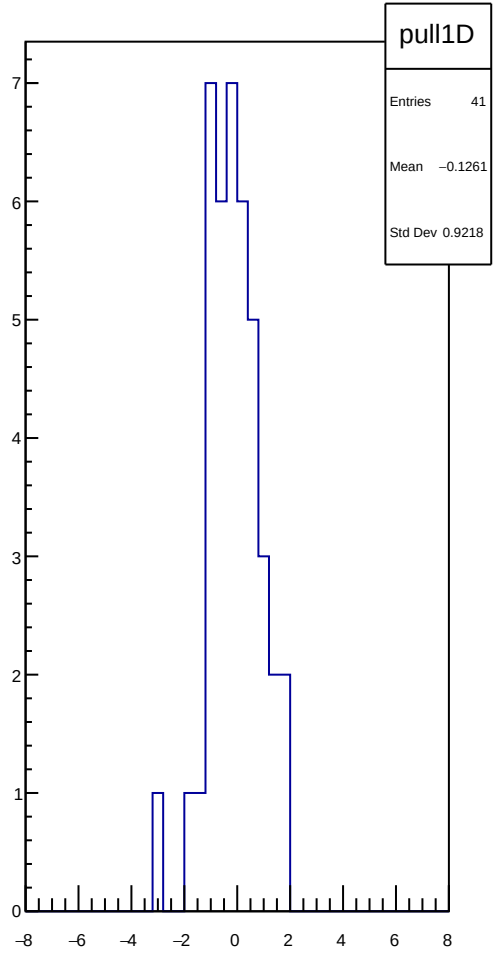

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4942 / 40
p0 35.29 ± 0.03947
44
42
40
38
36
34
32
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

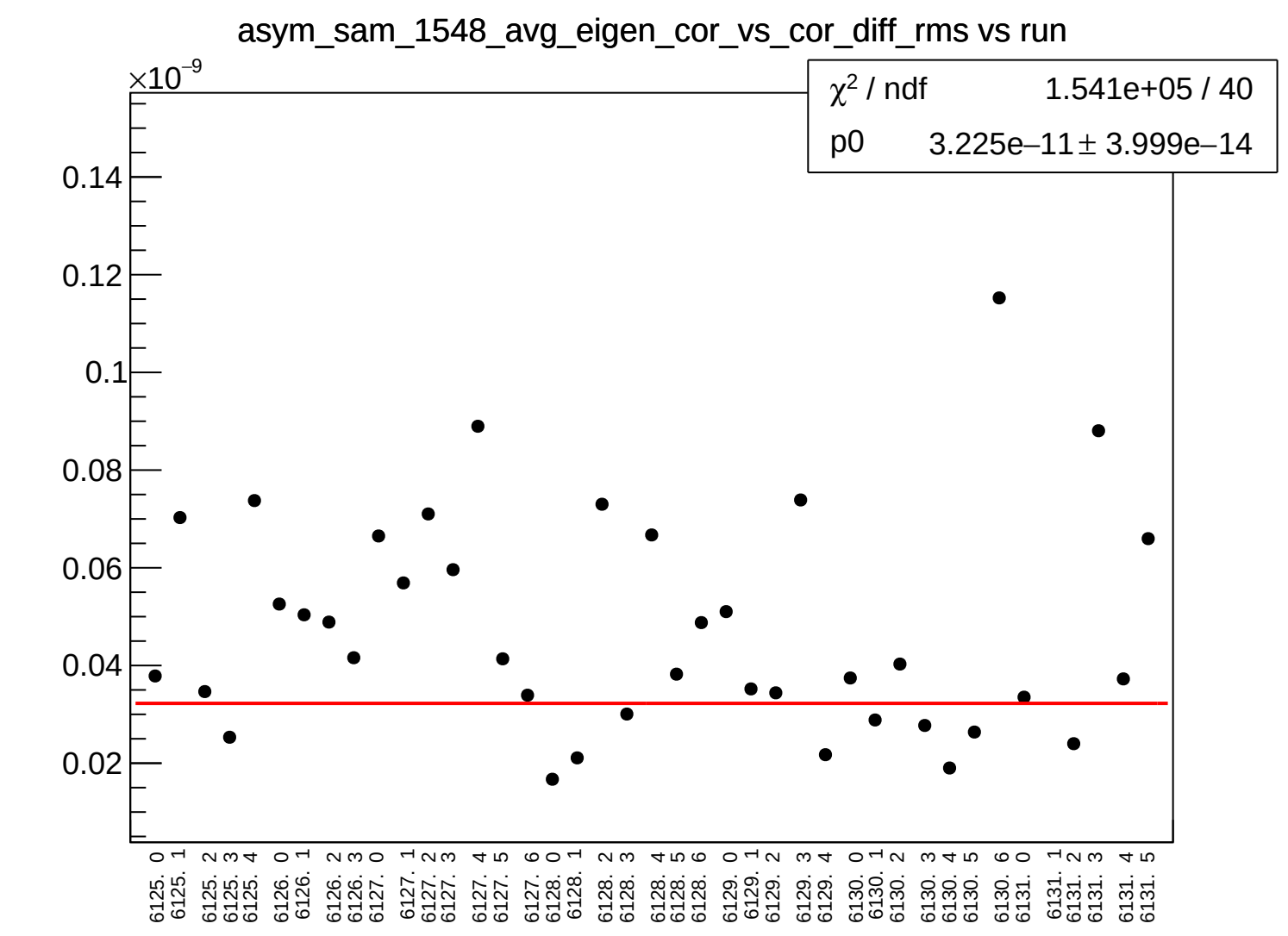

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.89 / 40
p0 0.05743 ± 0.05583
pull
Entries 41
Mean −5.335
Std Dev 0

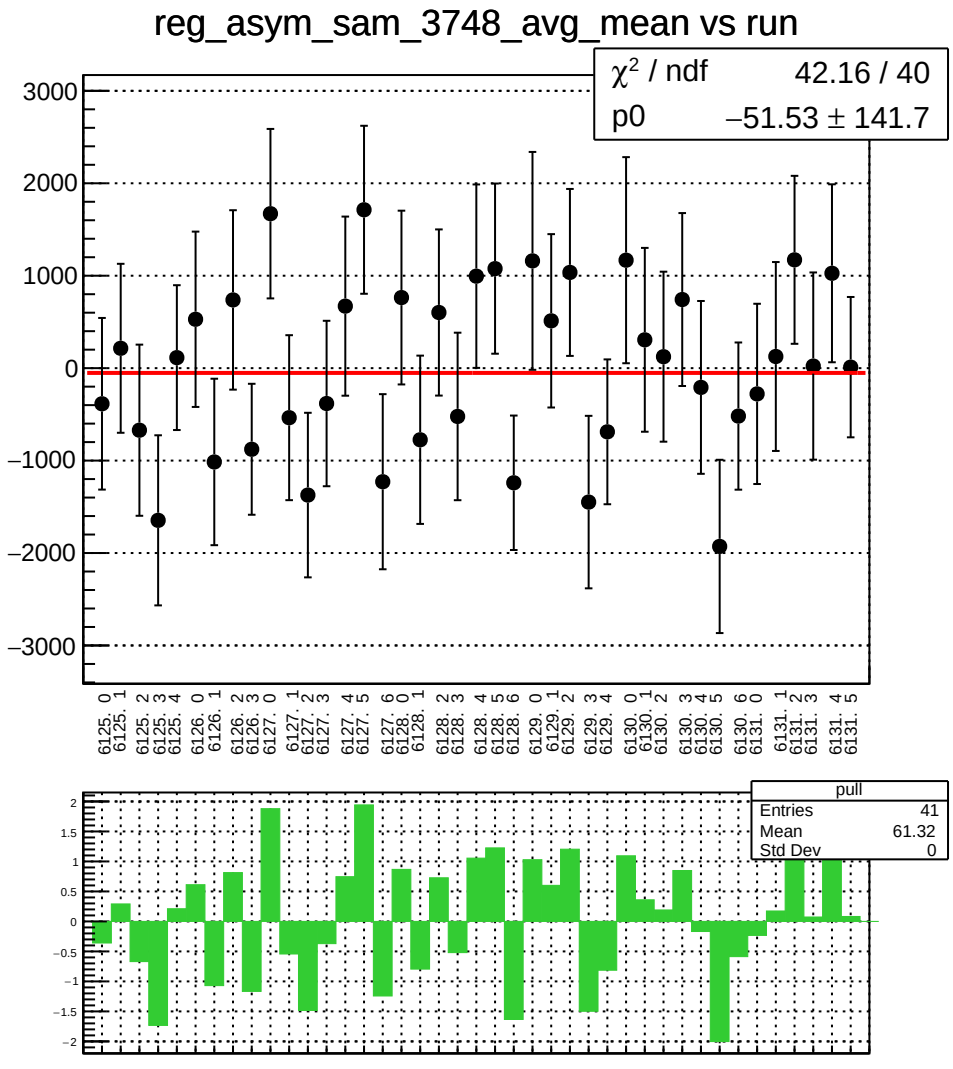

pull1D
Entries 41
Mean 0.01748
Std Dev 0.8392

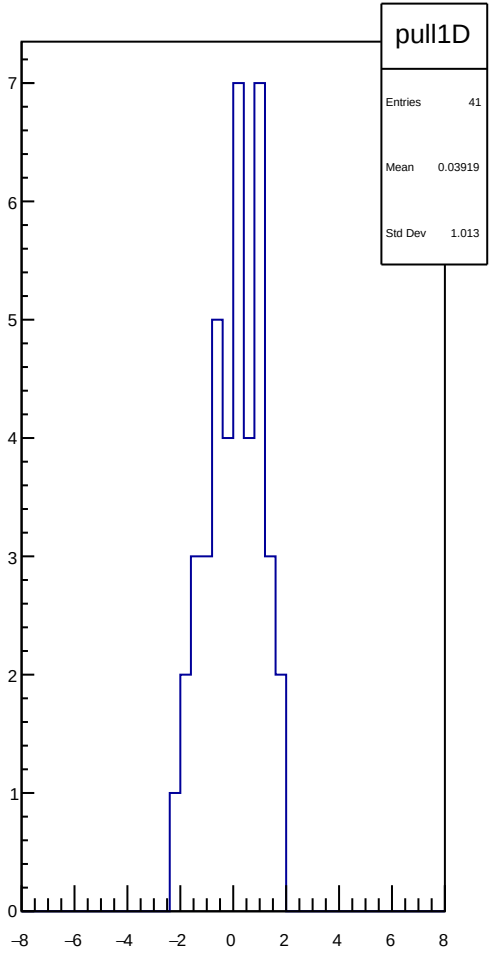

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4942 / 40
p0 35.29 ± 0.03947
44
42
40
38
36
34
32
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

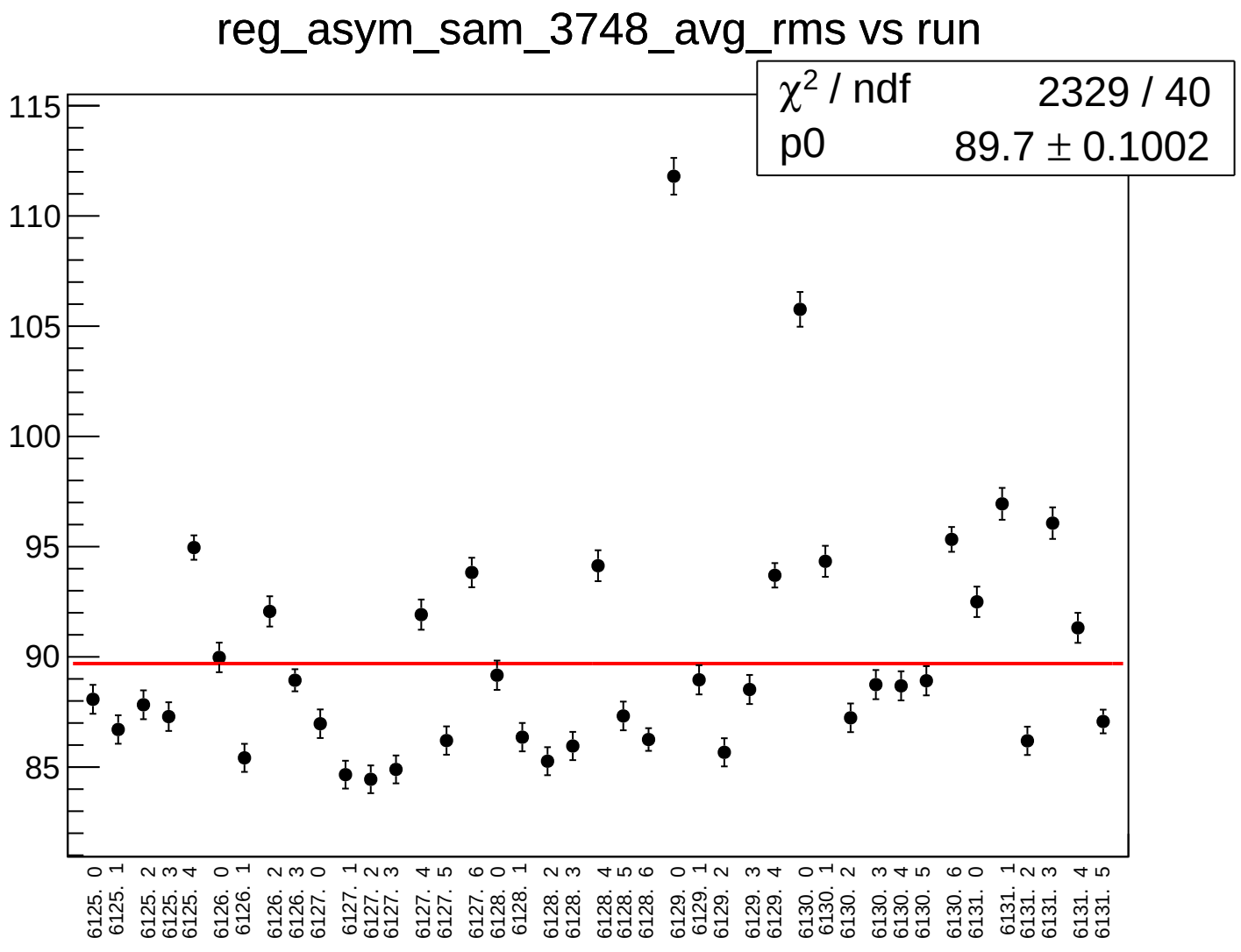

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.49 / 40
p0 2.06e−14 ± 5.656e−14
pull
Entries 41
Mean 18.32
Std Dev 22.33

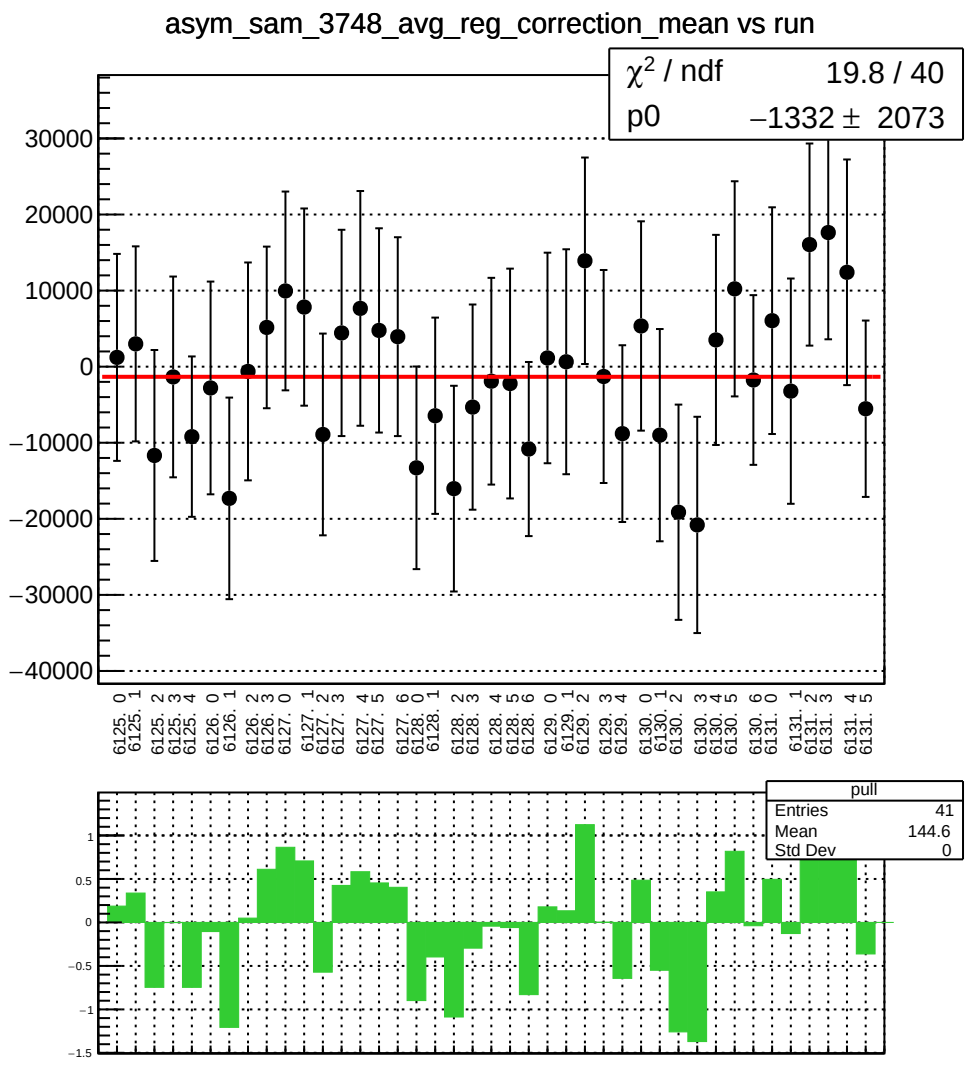

pull1D
Entries 41
Mean −0.1261
Std Dev 0.9218

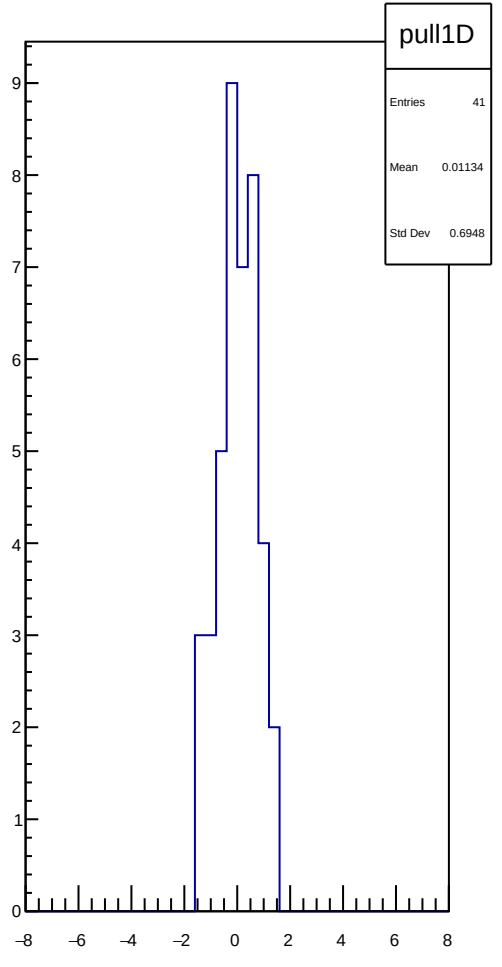

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.541e+05 / 40
p0 3.225e−11 ± 3.999e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

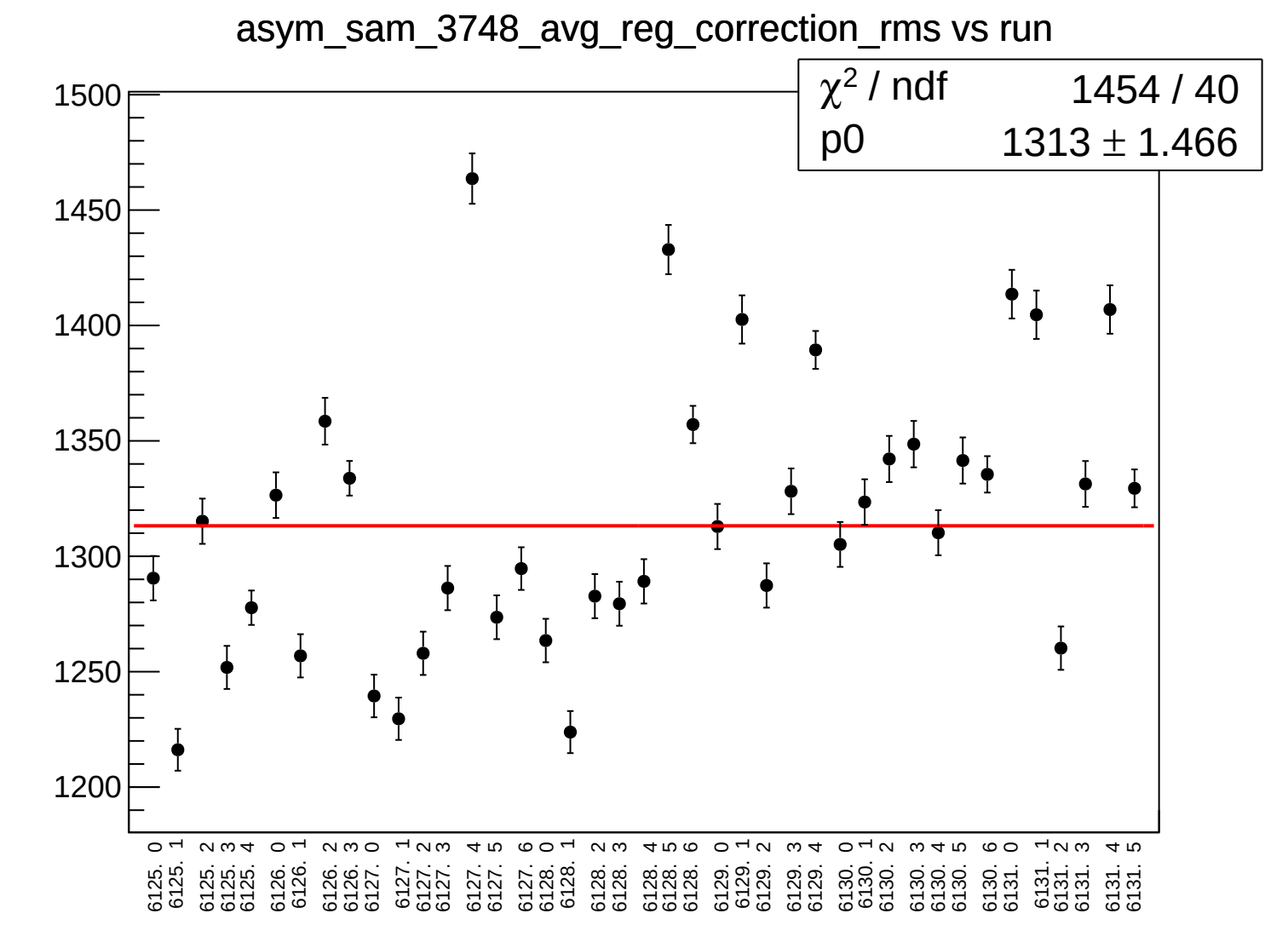

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 42.16 / 40
p0 −51.53 ± 141.7
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 61.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

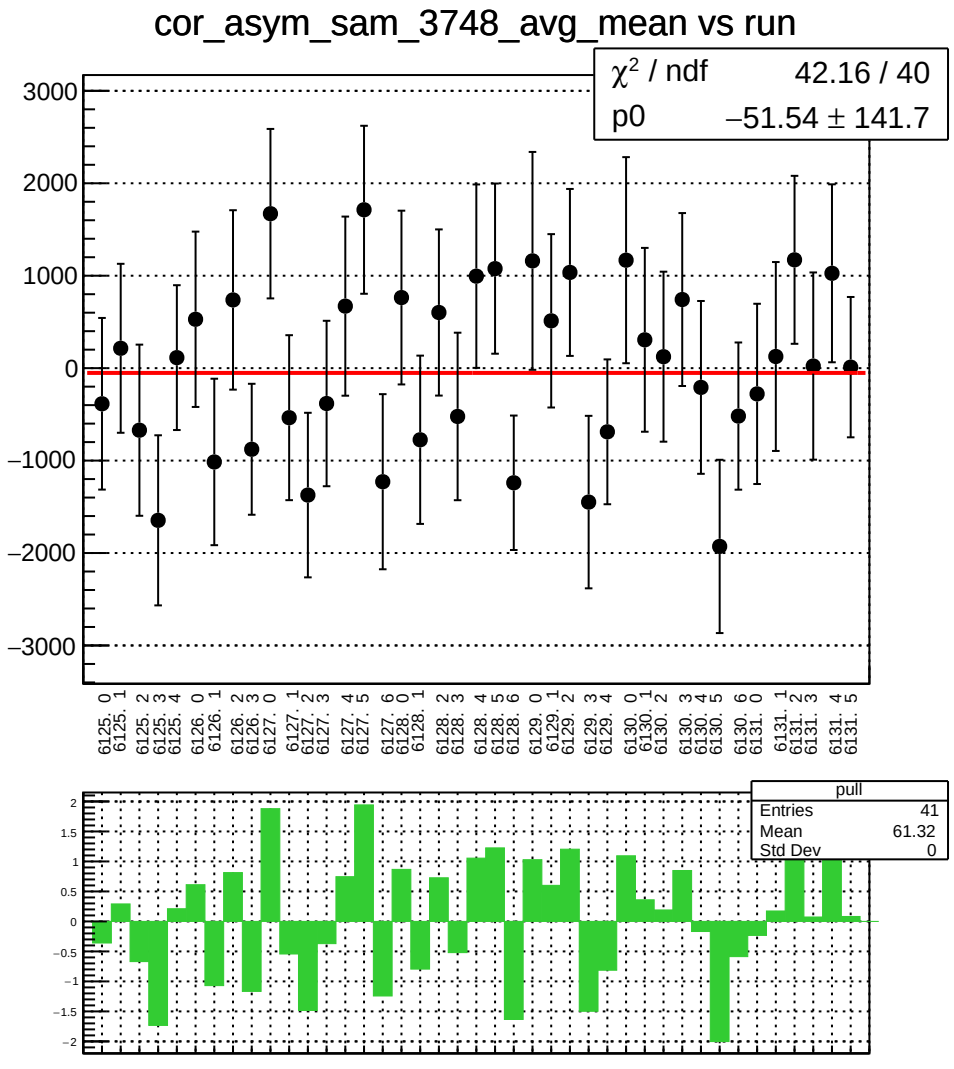

pull1D
Entries 41
Mean 0.03919
Std Dev 1.013
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

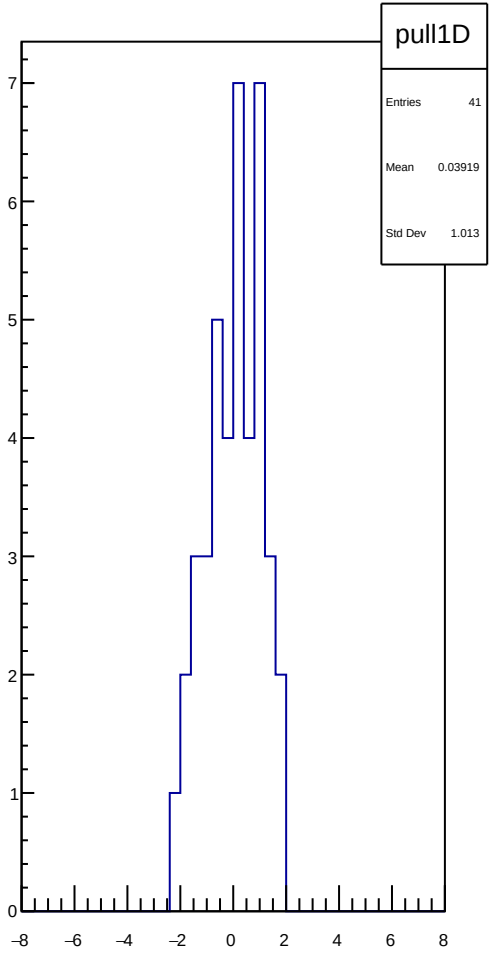

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 2329 / 40
p0 89.7 ± 0.1002
115
110
105
100
95
90
85
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

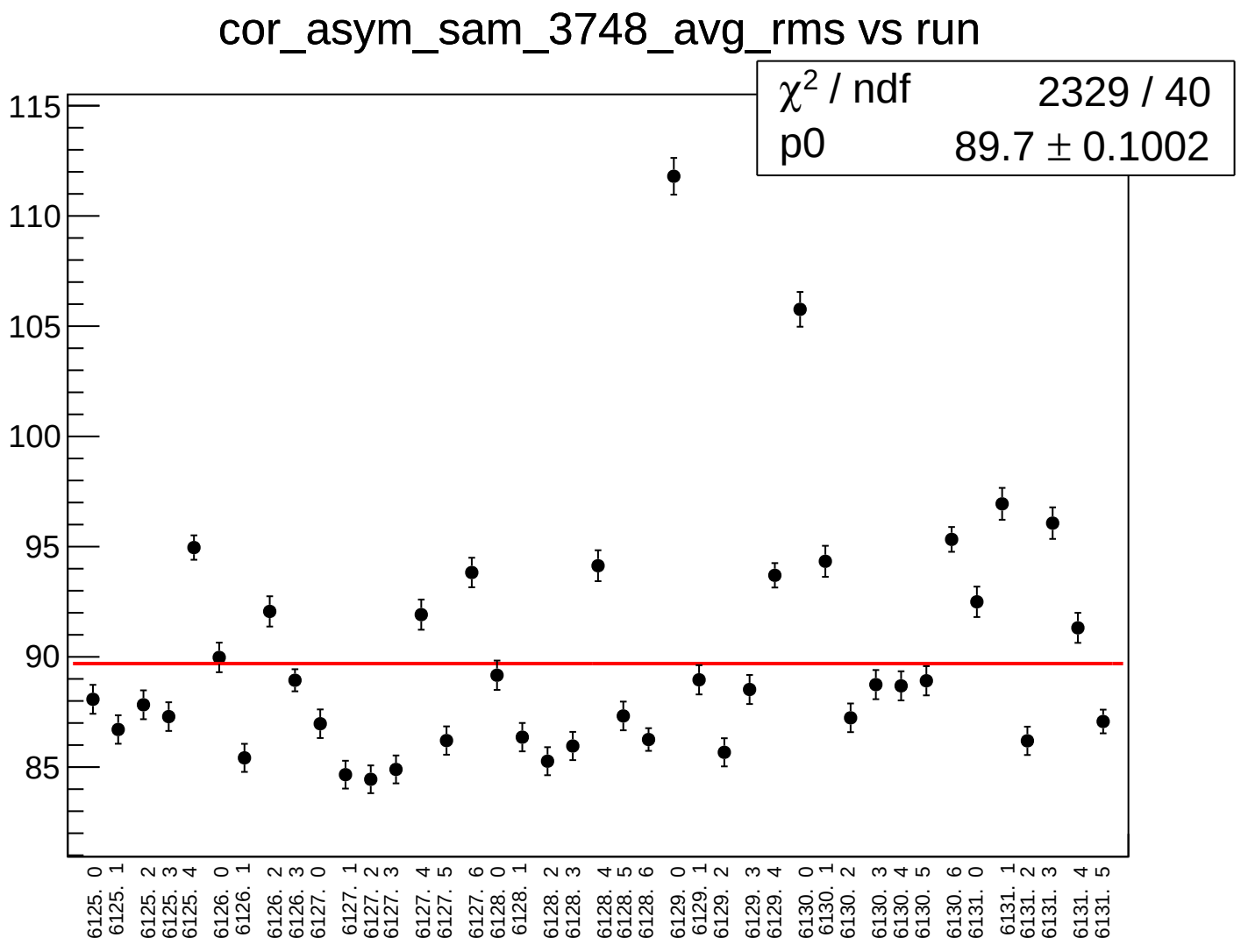

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 19.8 / 40
p0 −1332 ± 2073
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 144.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

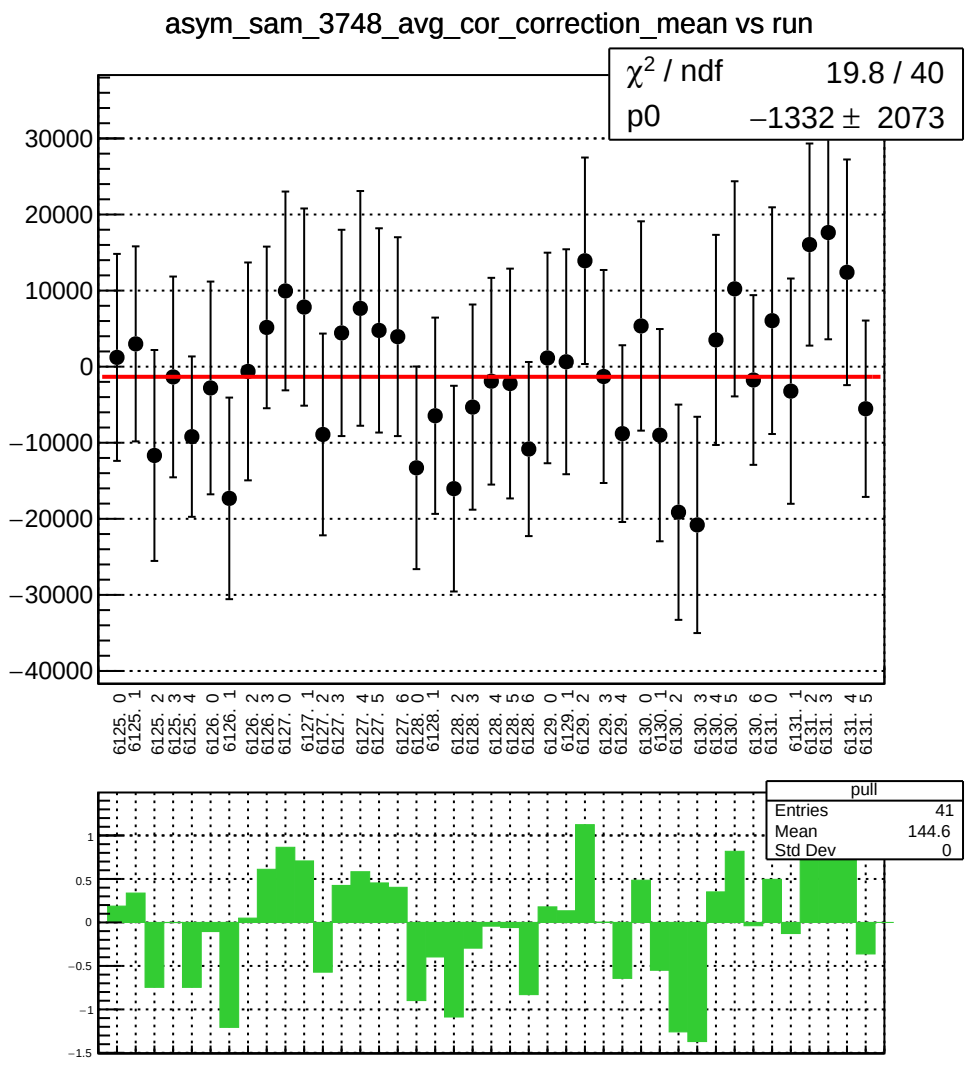

pull1D
Entries 41
Mean 0.01134
Std Dev 0.6948
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

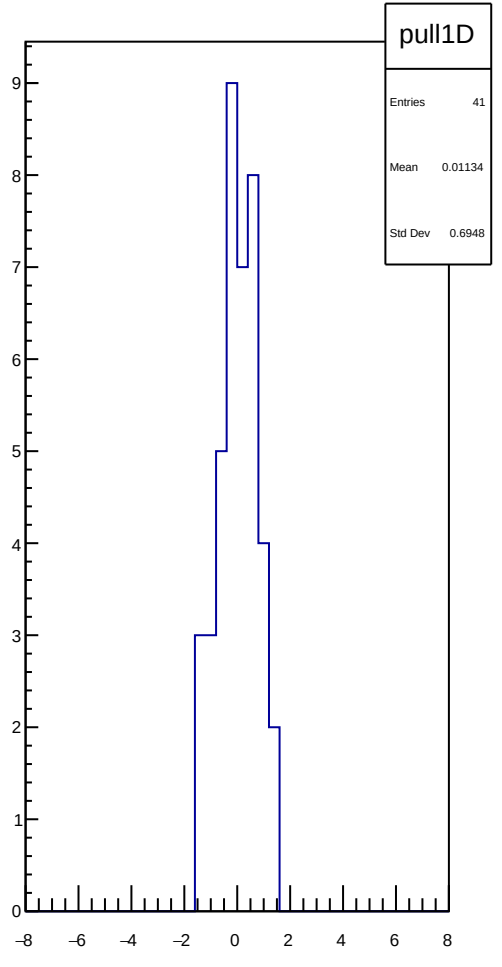

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 1454 / 40
p0 1313 ± 1.466
1500
1450
1400
1350
1300
1250
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

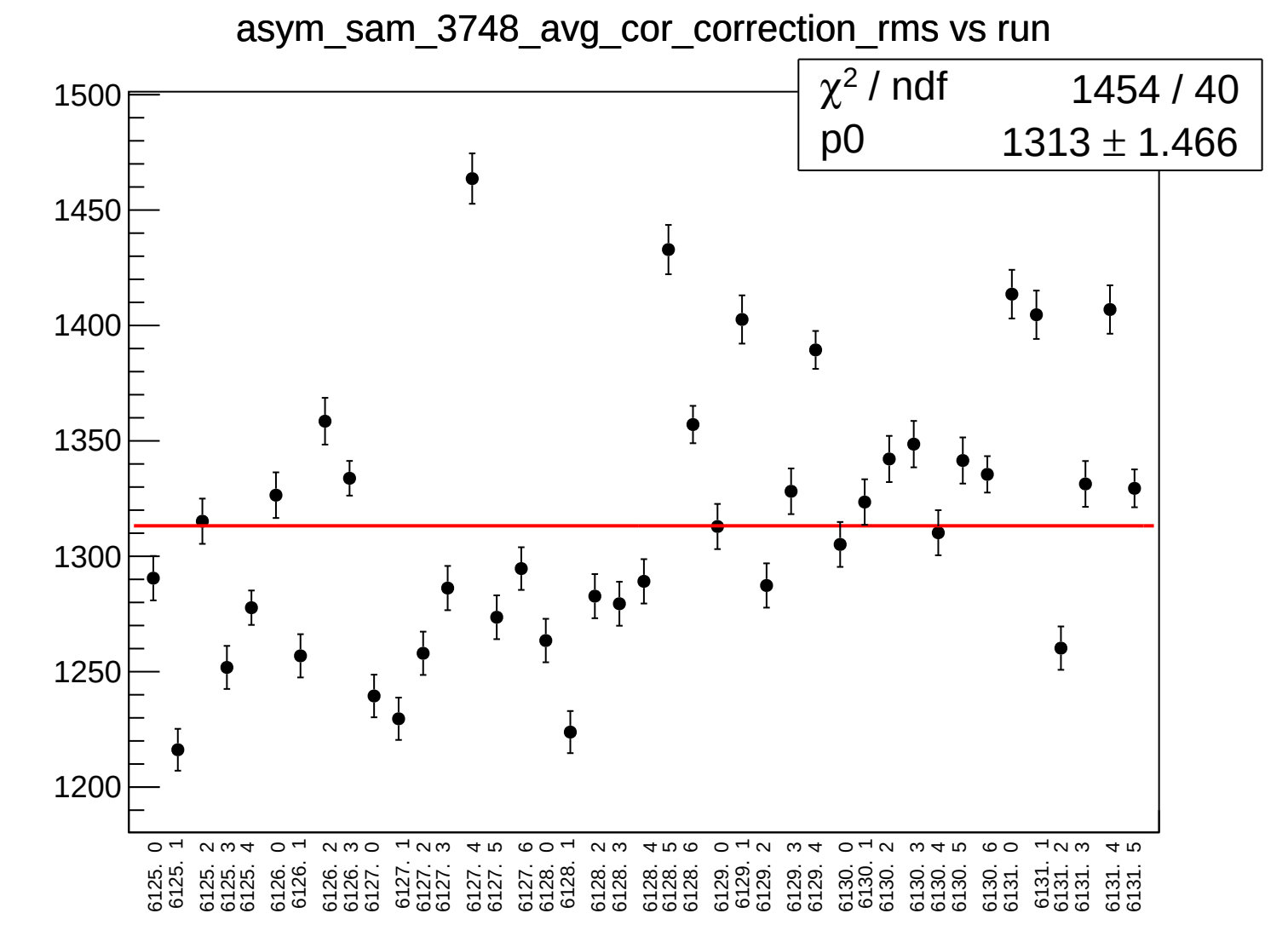

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 42.16 / 40
p0 −51.54 ± 141.7
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 61.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

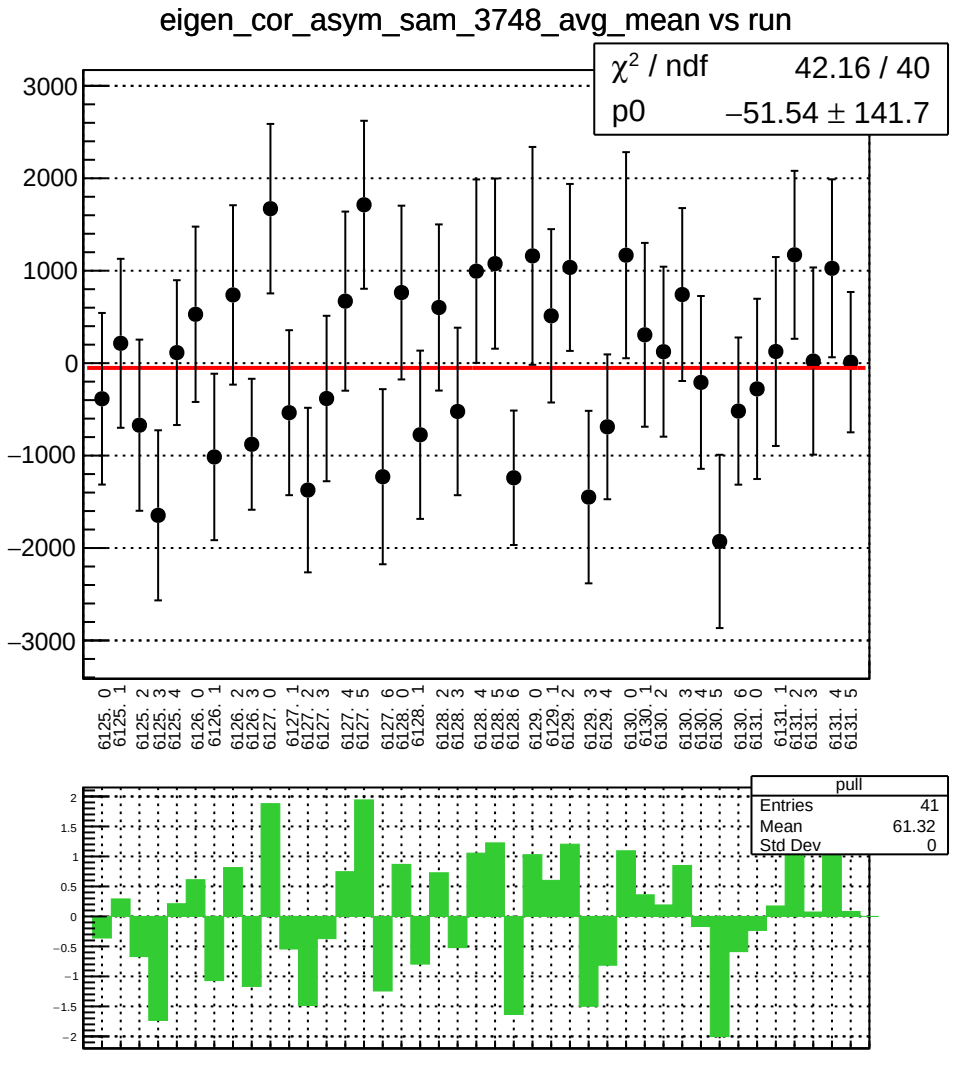

pull1D
Entries 41
Mean 0.03919
Std Dev 1.013
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

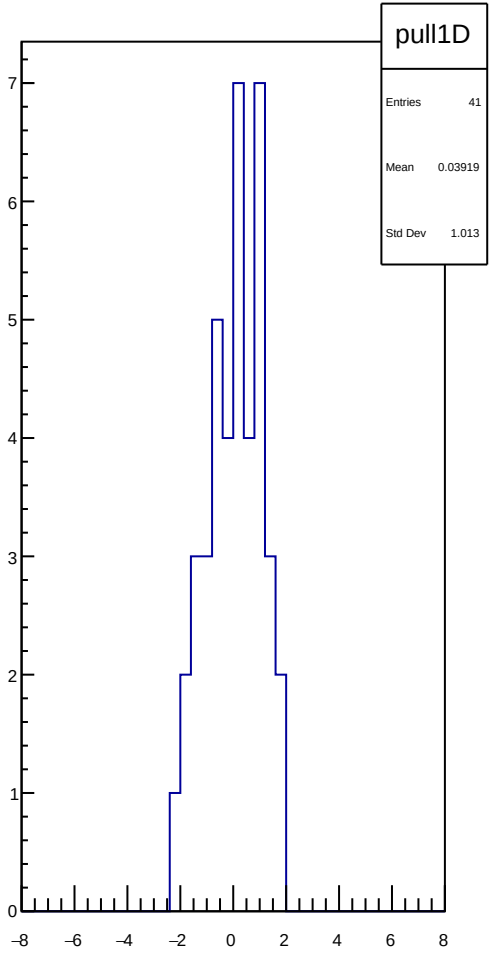

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 2329 / 40
p0 89.7 ± 0.1002
115
110
105
100
95
90
85
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

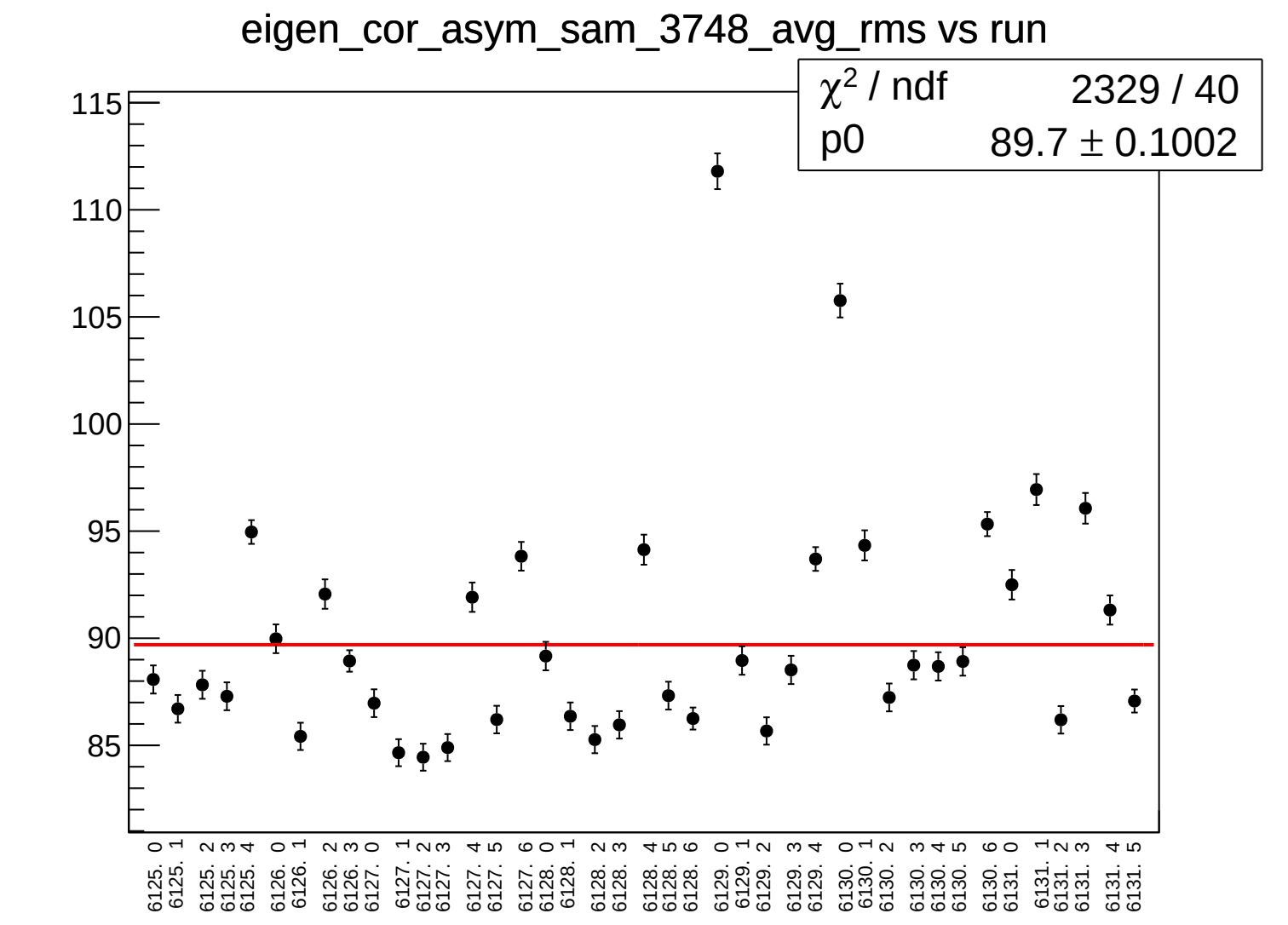

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 19.8 / 40
p0 −1332 ± 2073
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 144.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

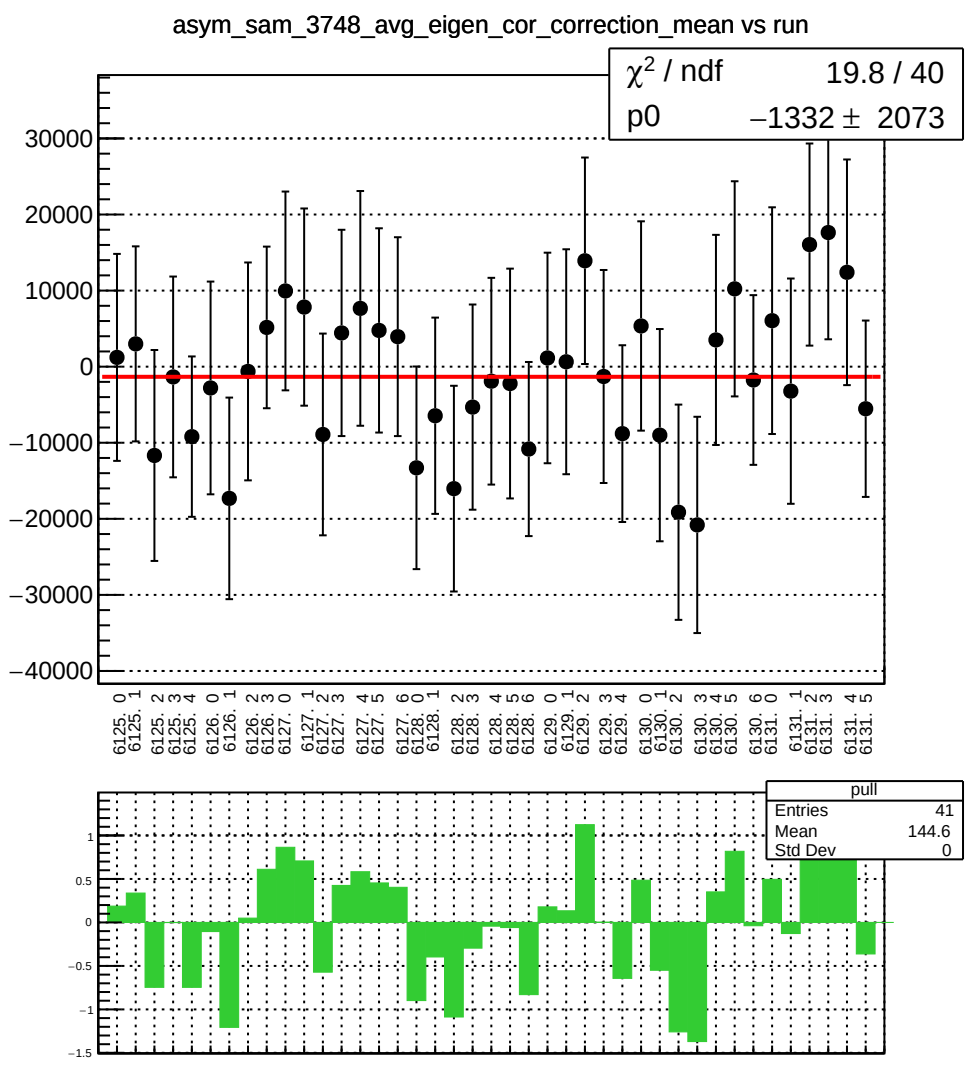

pull1D
Entries 41
Mean 0.01134
Std Dev 0.6948
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

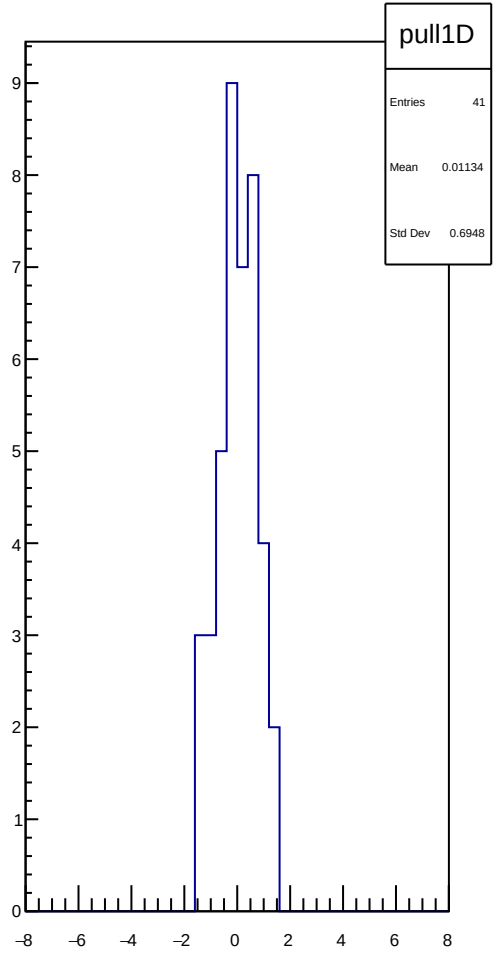

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 1454 / 40
p0 1313 ± 1.466
1500
1450
1400
1350
1300
1250
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

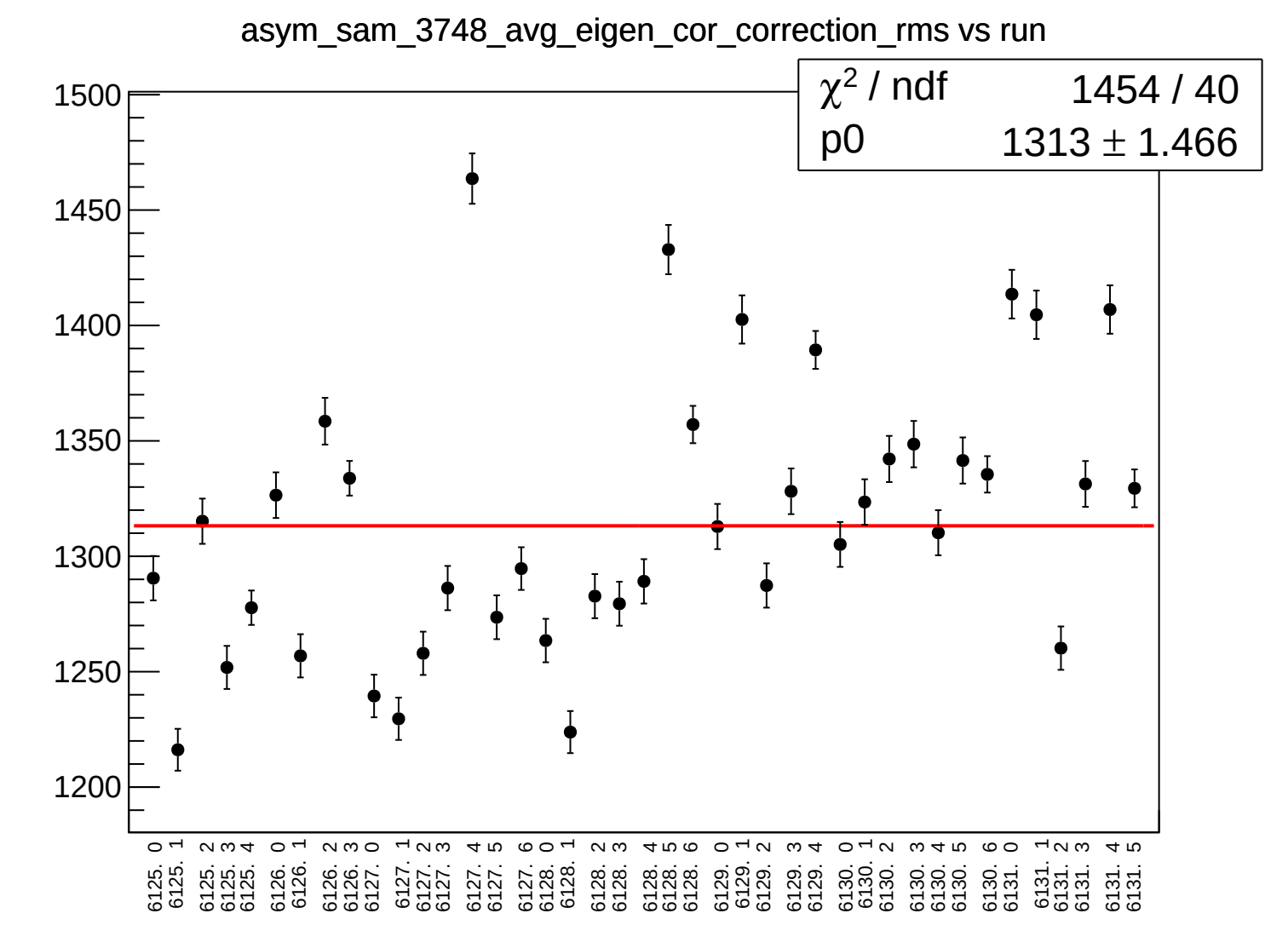

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 42.16 / 40
p0 −51.54 ± 141.7
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 61.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

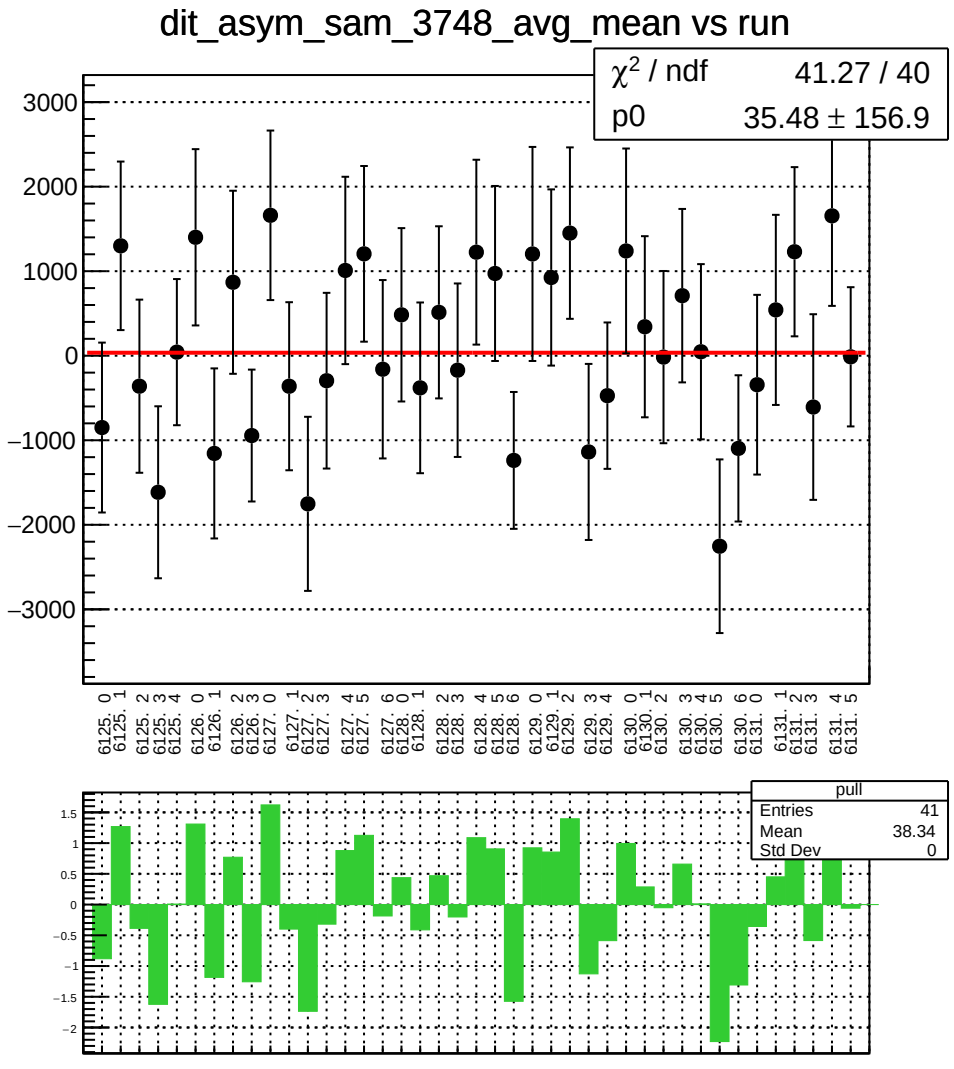

pull1D
Entries 41
Mean 0.03919
Std Dev 1.013
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

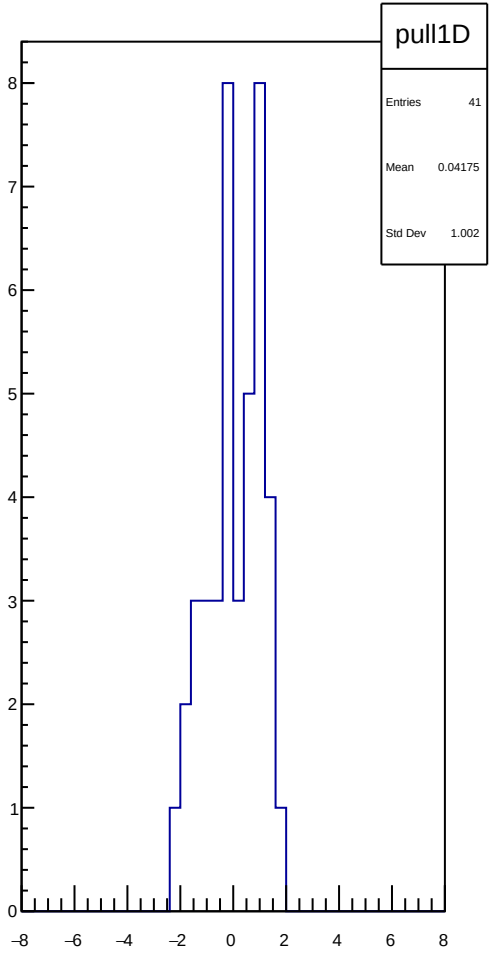

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 2329 / 40
p0 89.7 ± 0.1002
115
110
105
100
95
90
85
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

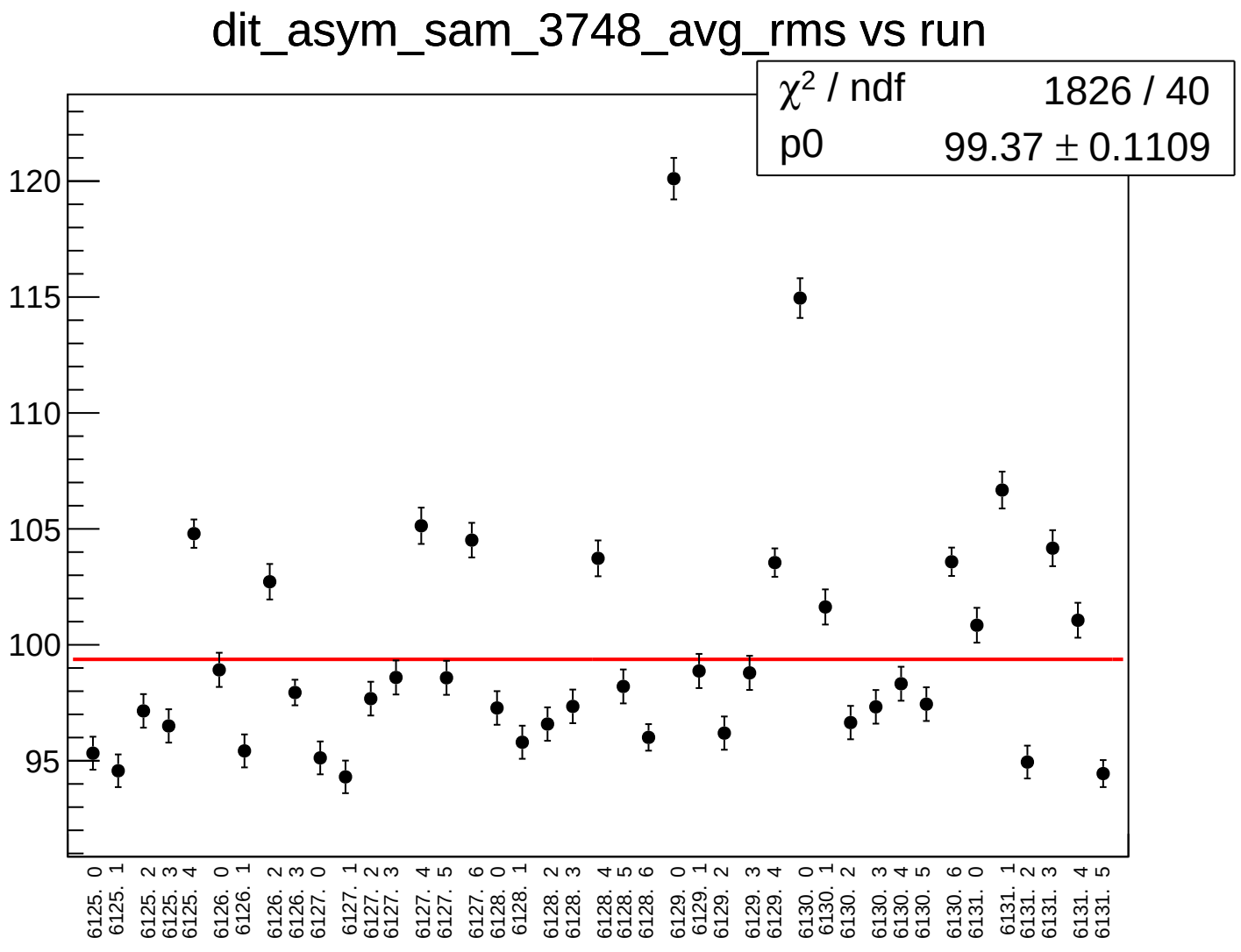

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 19.8 / 40
p0 −1332 ± 2073
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 144.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

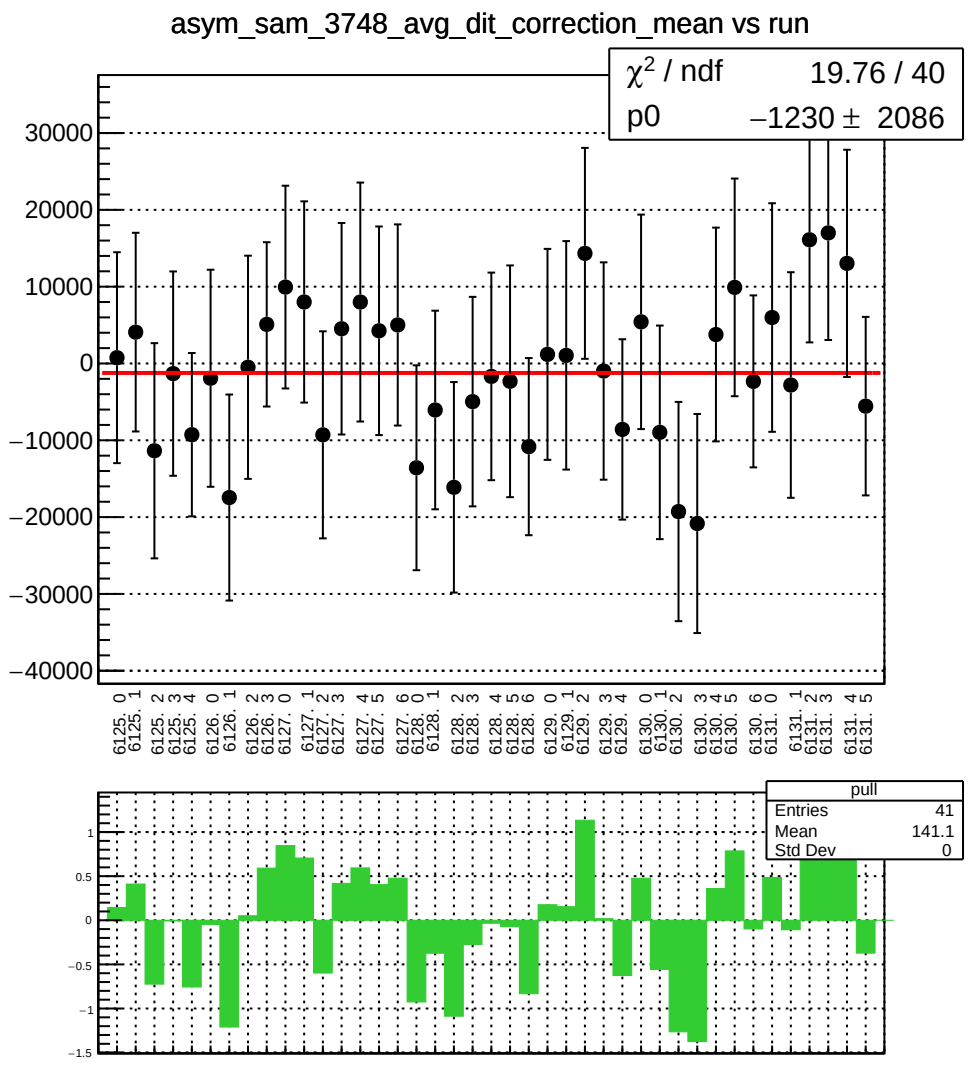

pull1D
Entries 41
Mean 0.01134
Std Dev 0.6948
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

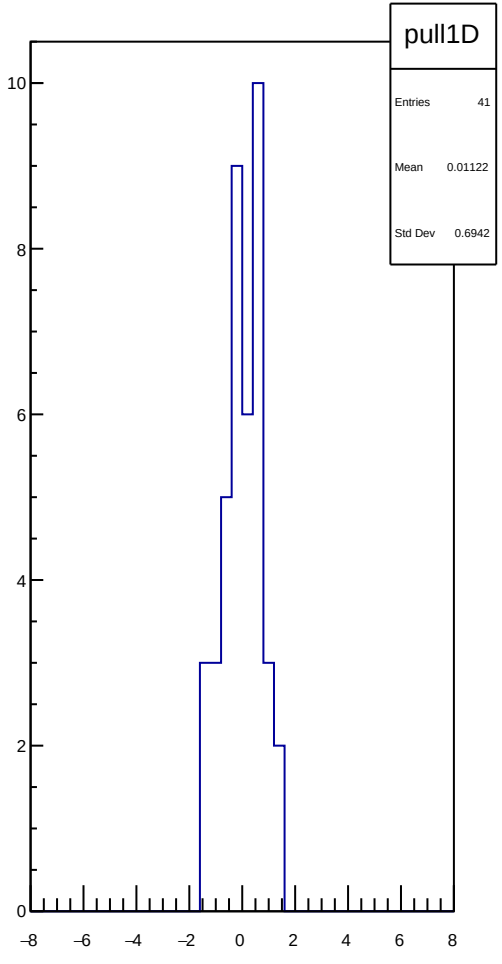

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 1454 / 40
p0 1313 ± 1.466
1500
1450
1400
1350
1300
1250
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

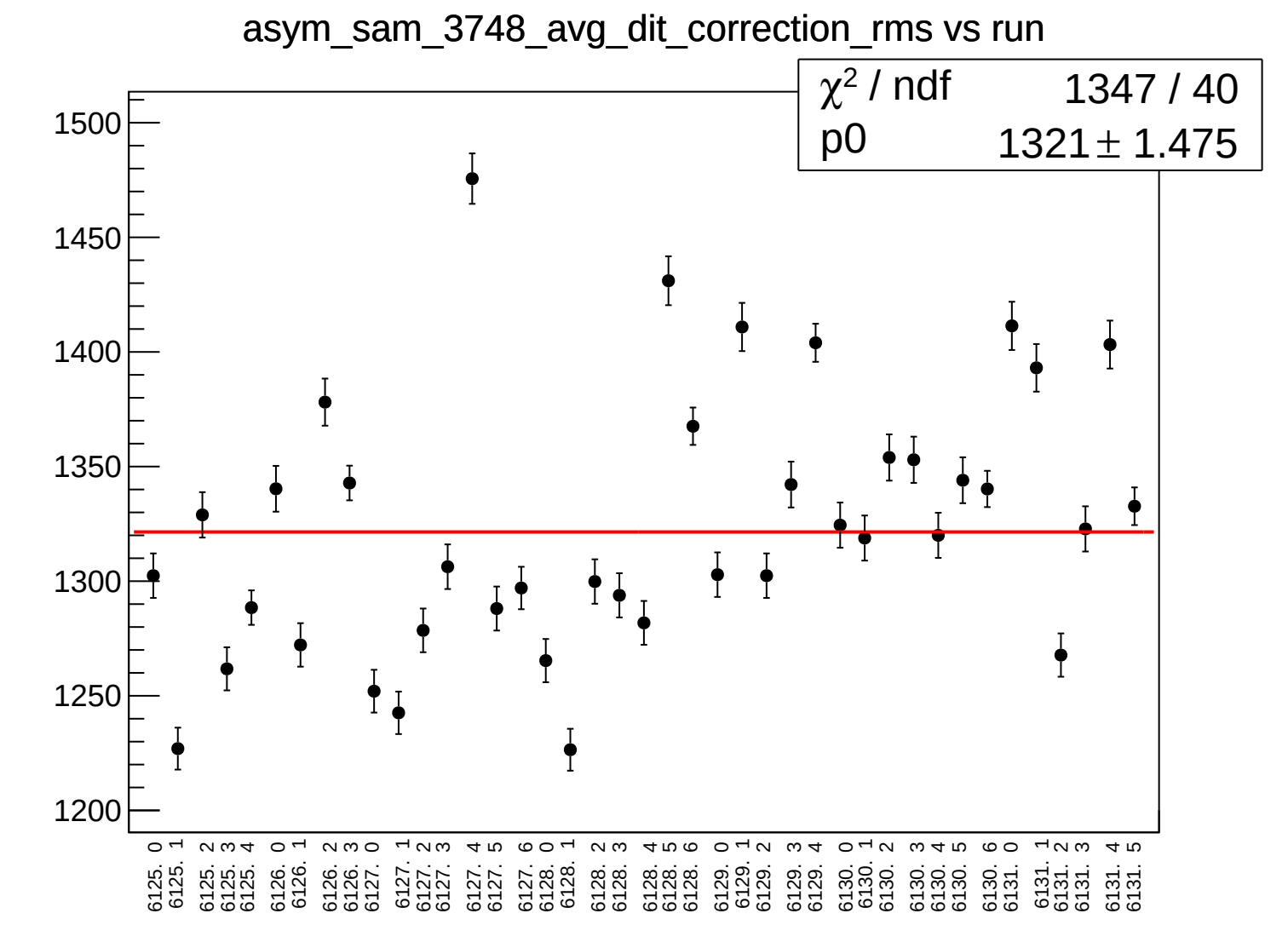

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 41.27 / 40
p0 35.48 ± 156.9
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 38.34
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

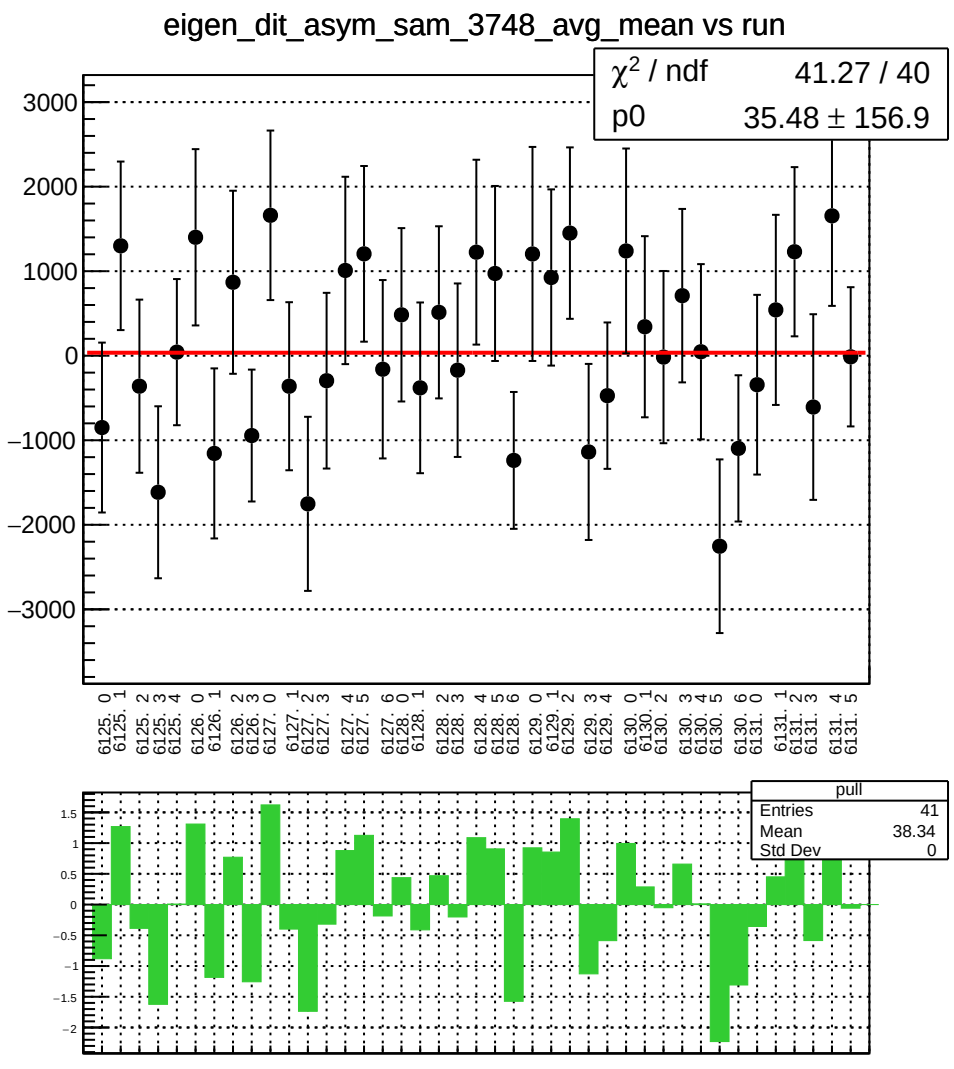

pull1D
Entries 41
Mean 0.04175
Std Dev 1.002
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

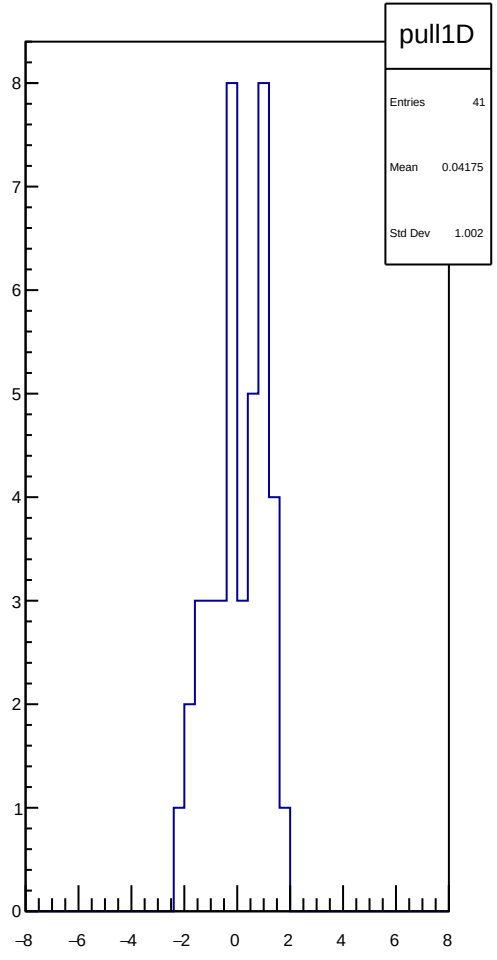

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1826 / 40
p0 99.37 ± 0.1109
120
115
110
105
100
95
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

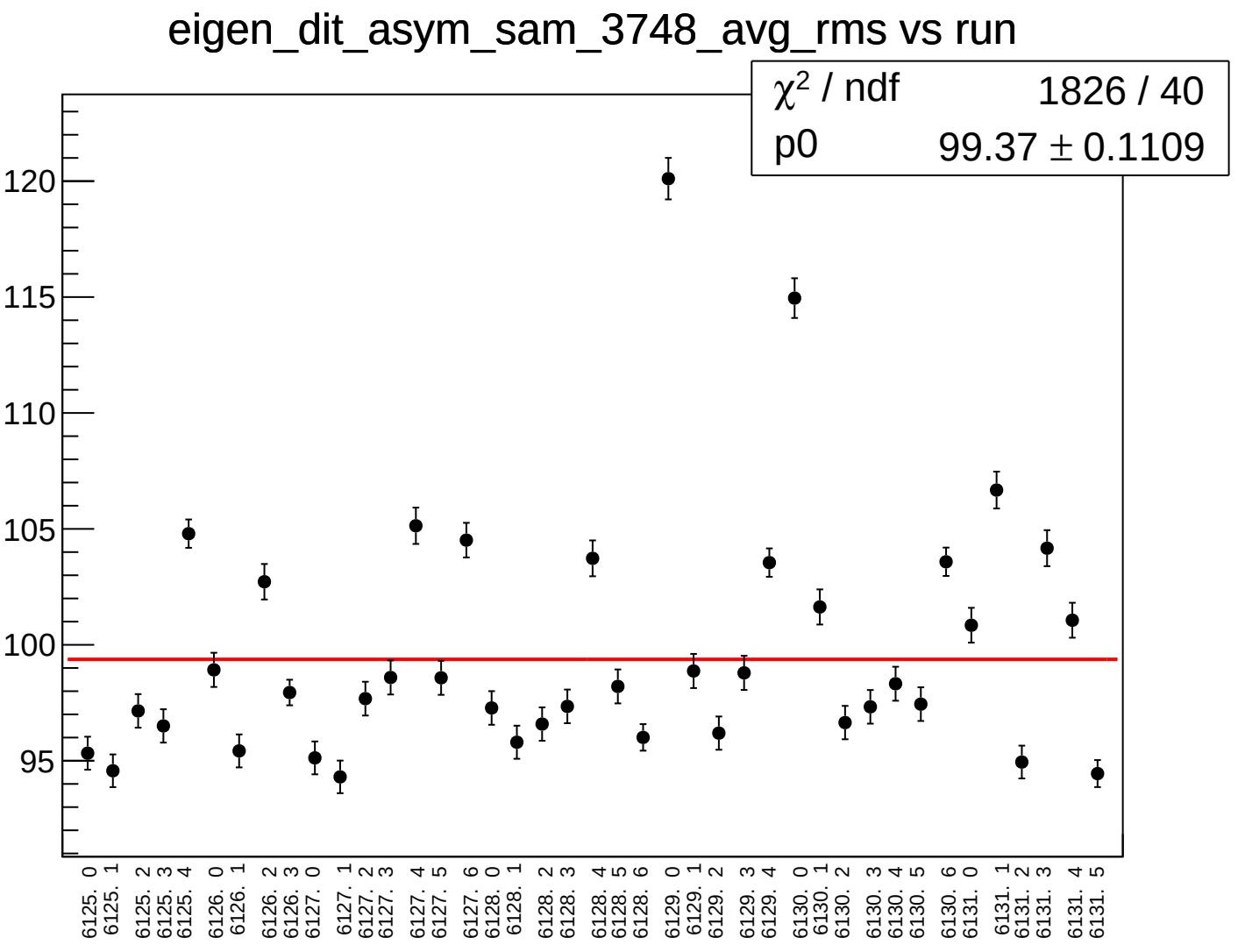

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 19.76 / 40
p0 −1230 ± 2086
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 141.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

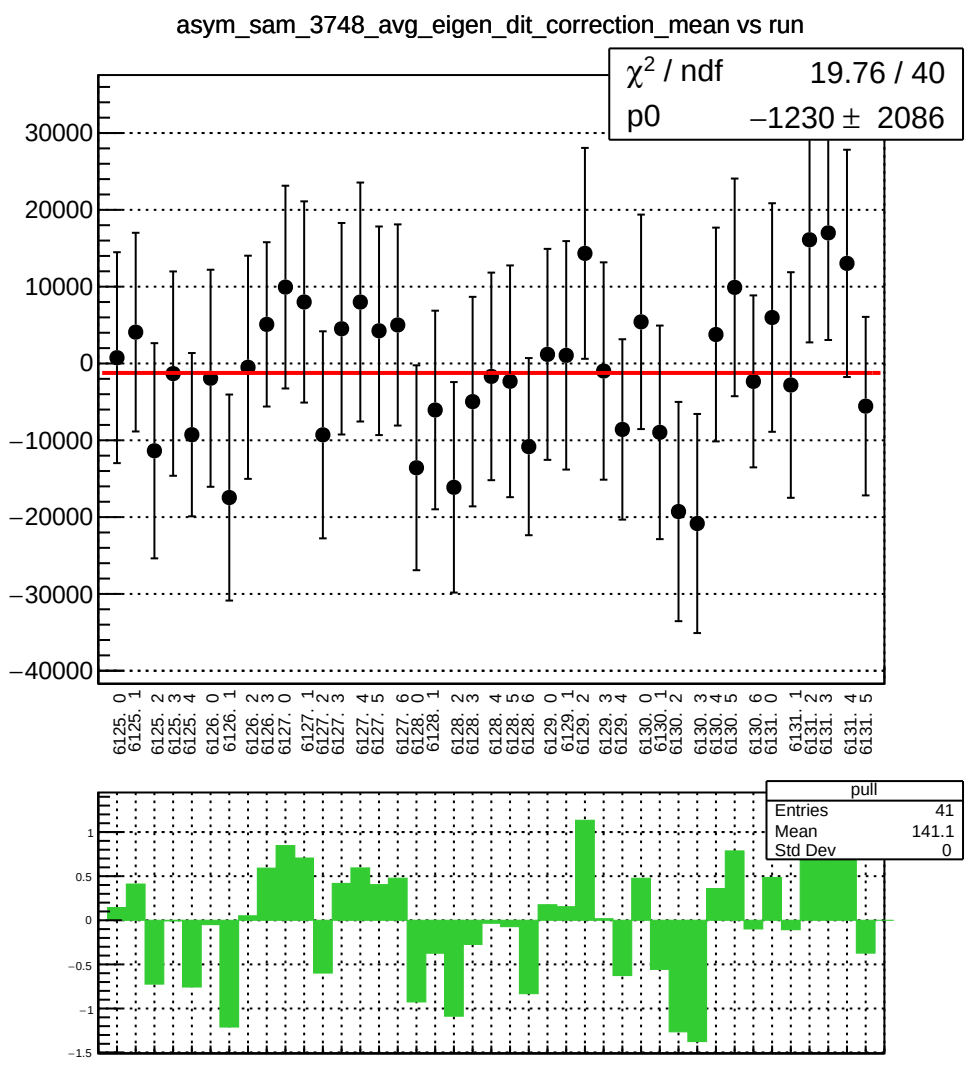

pull1D
Entries 41
Mean 0.01122
Std Dev 0.6942
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

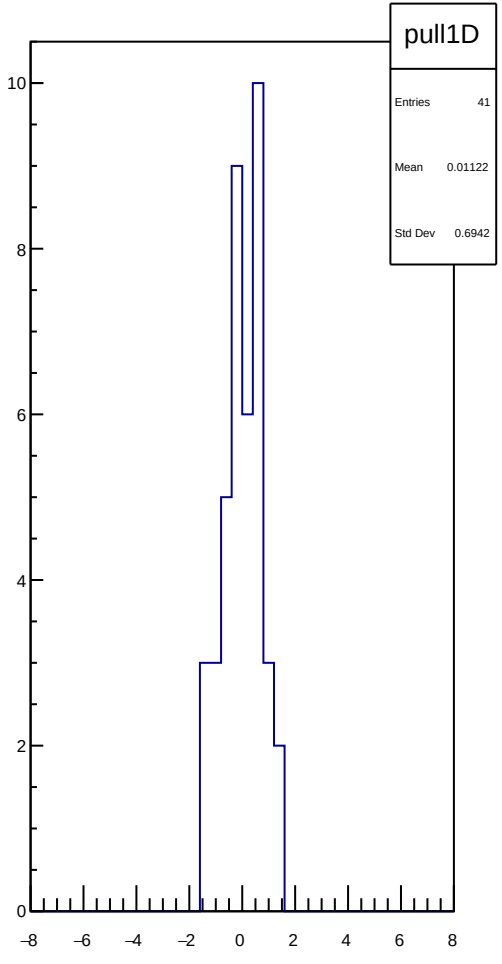

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 1347 / 40
p0 1321 ± 1.475
1500
1450
1400
1350
1300
1250
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

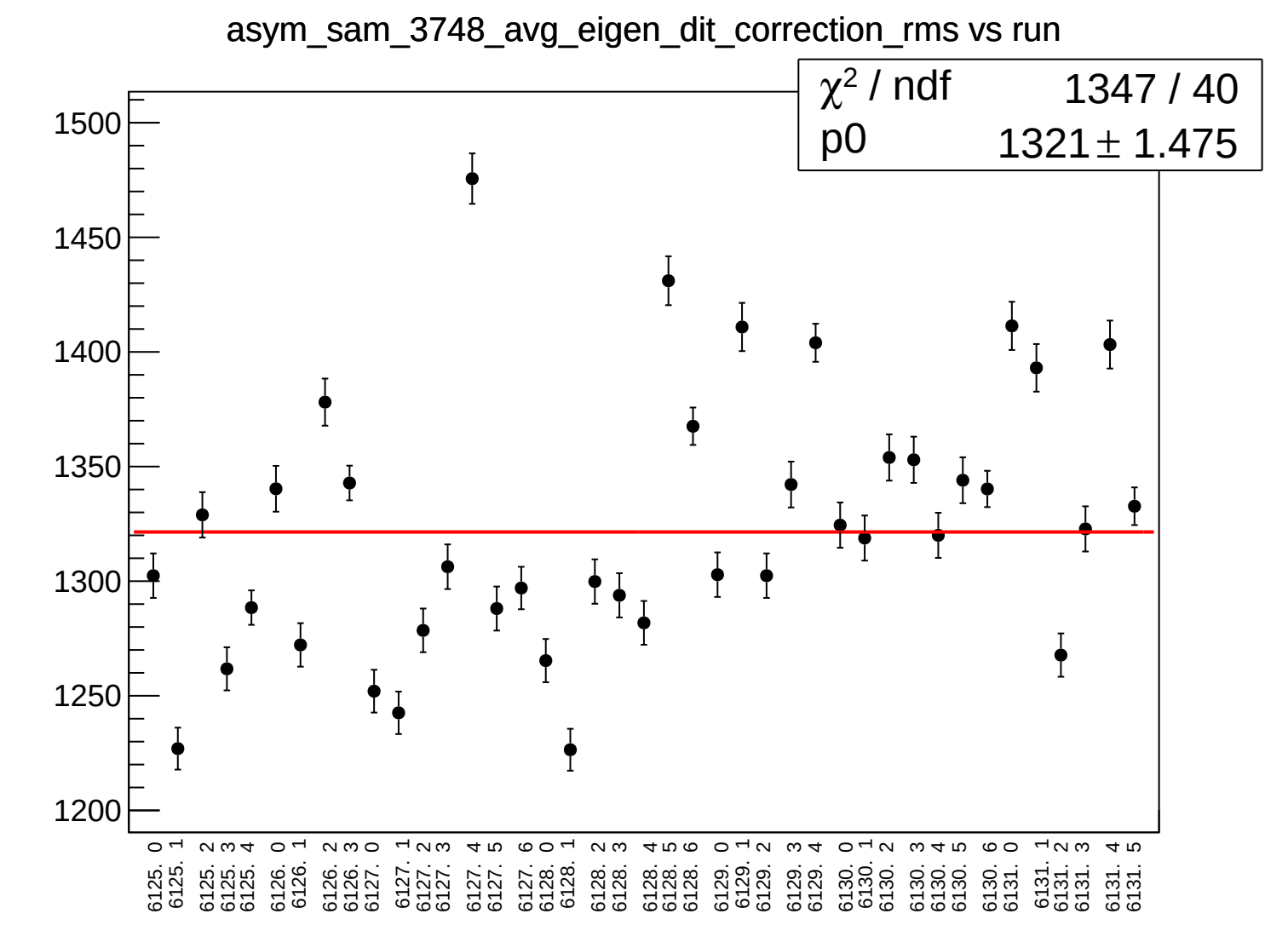

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 41.27 / 40
p0 35.48 ± 156.9
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 38.34
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

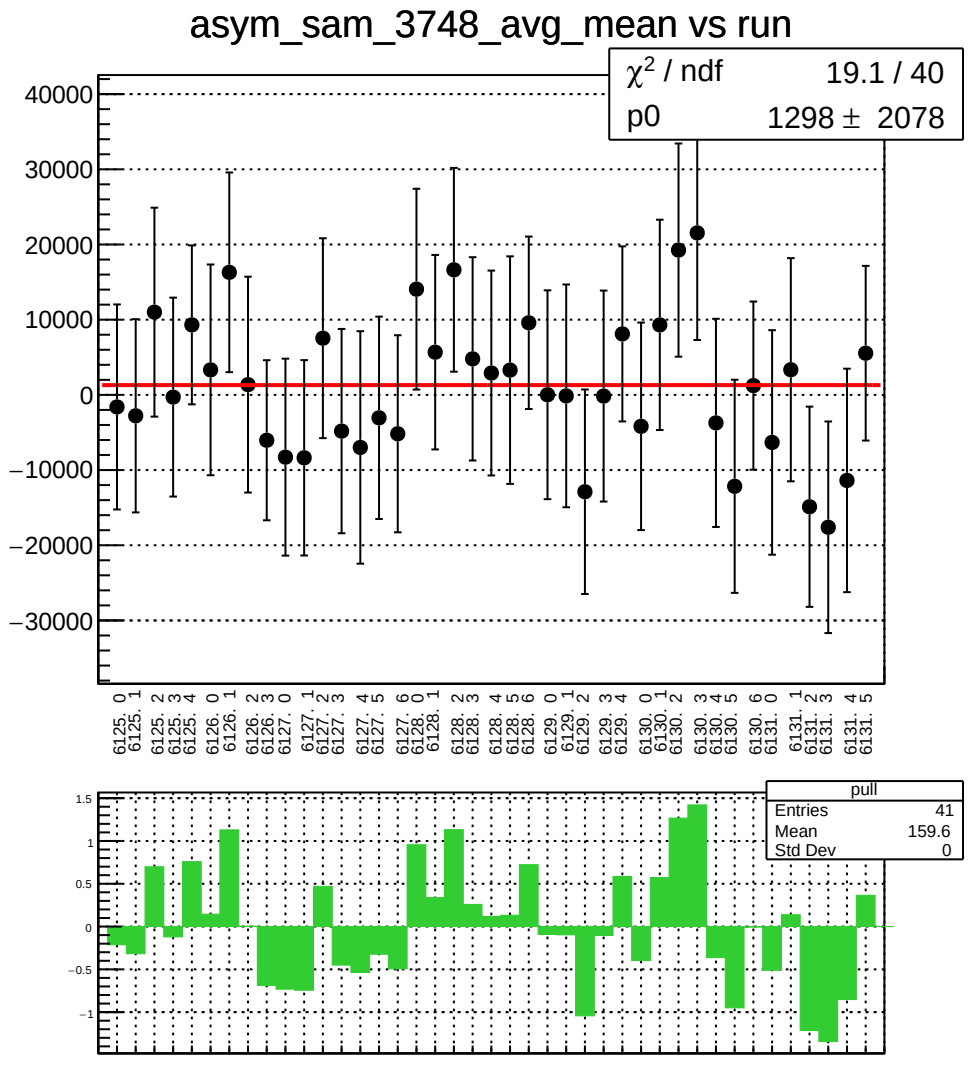

pull1D
Entries 41
Mean 0.04175
Std Dev 1.002
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

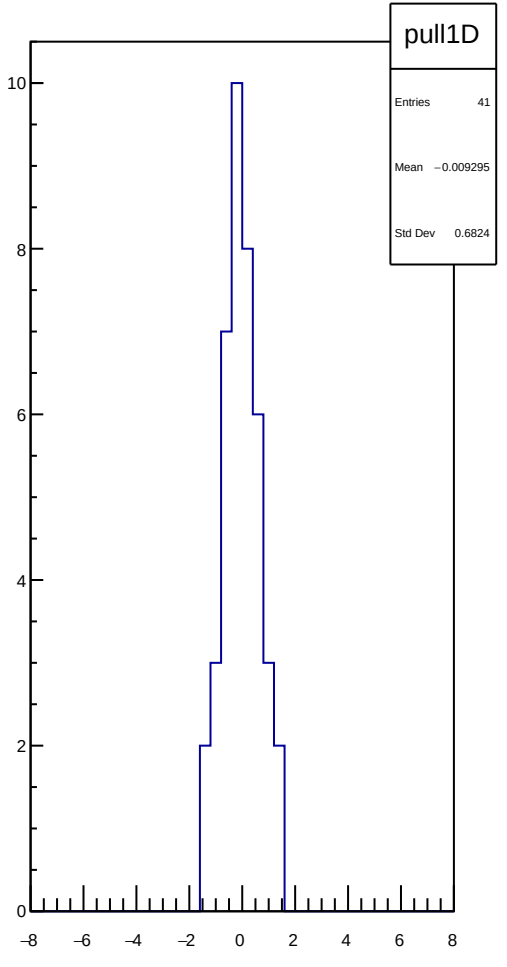

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1826 / 40
p0 99.37 ± 0.1109
120
115
110
105
100
95
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

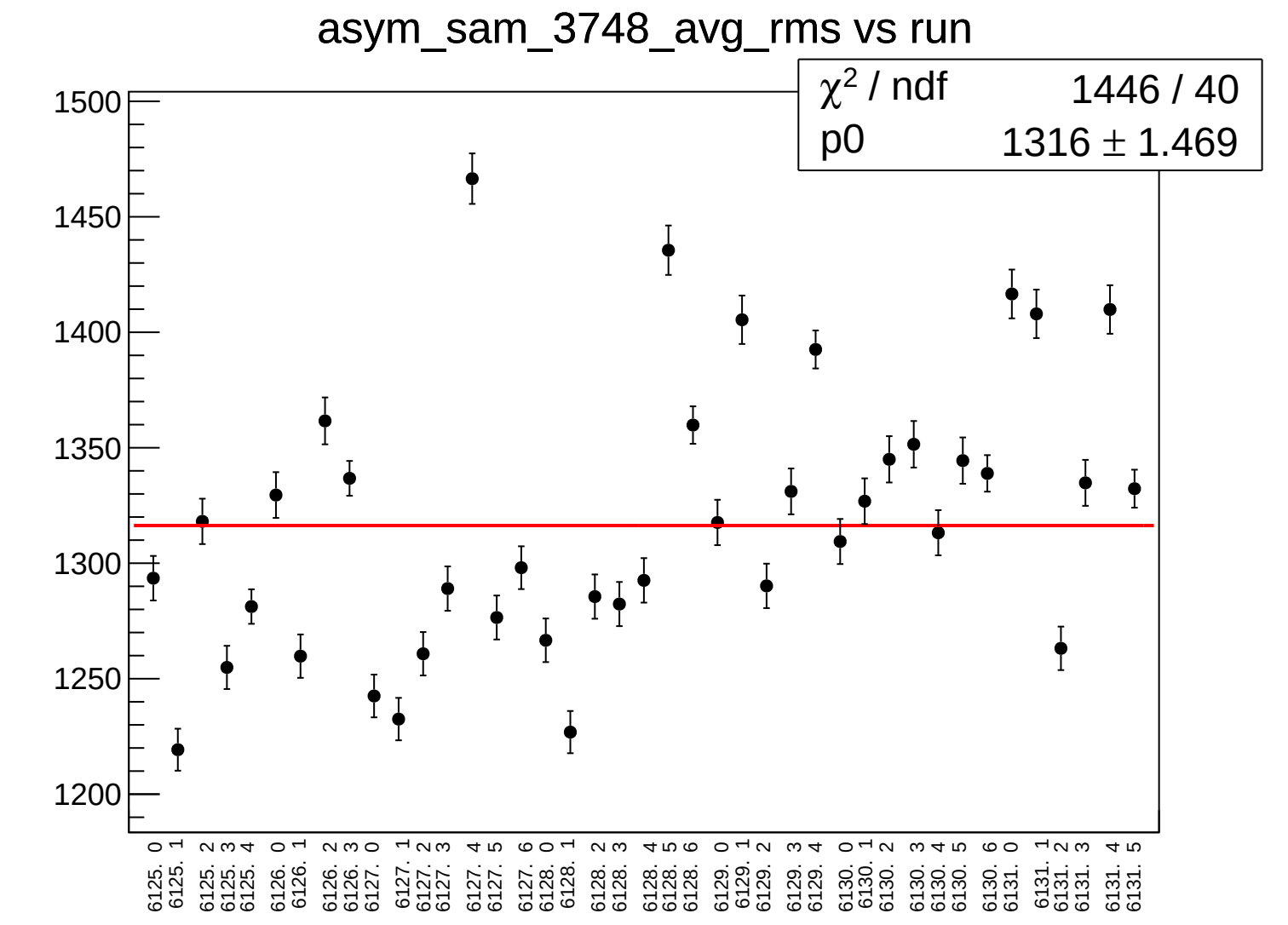

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 19.76 / 40
p0 −1230 ± 2086
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 141.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

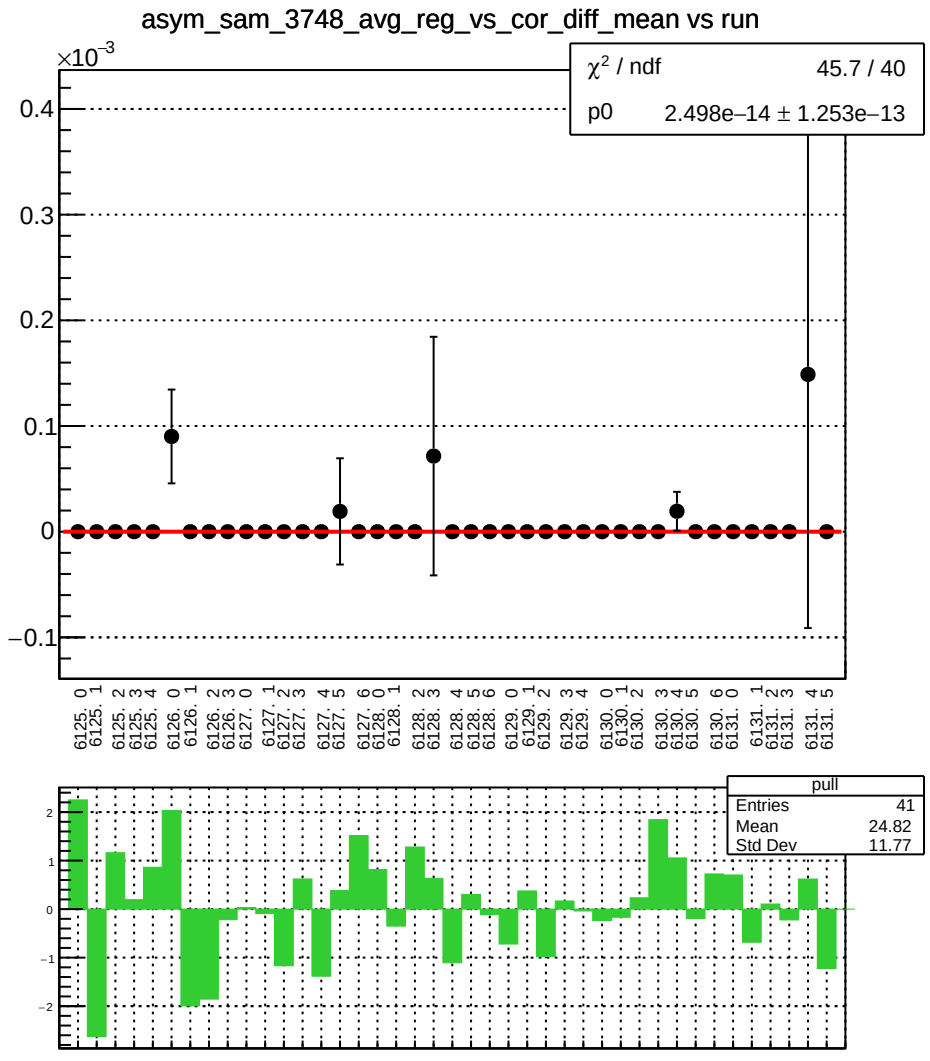

pull1D
Entries 41
Mean 0.01122
Std Dev 0.6942
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

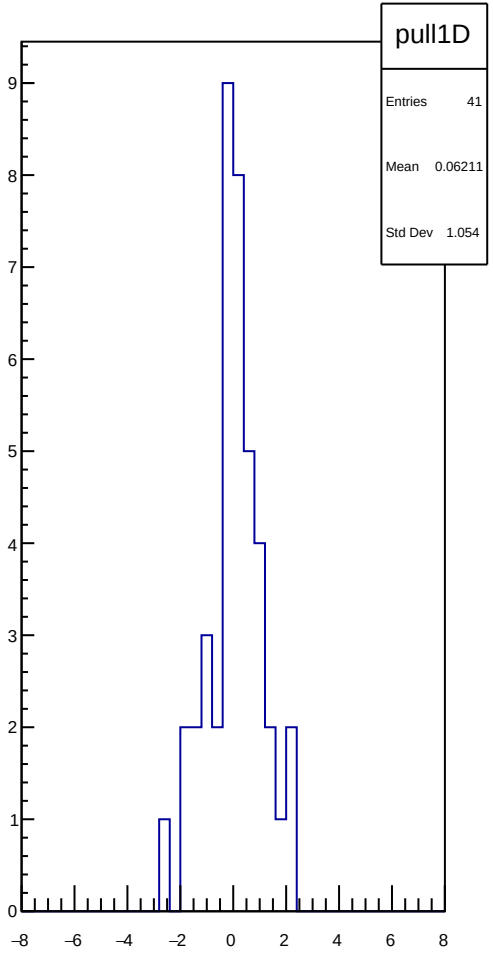

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 1347 / 40
p0 1321 ± 1.475
1500
1450
1400
1350
1300
1250
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

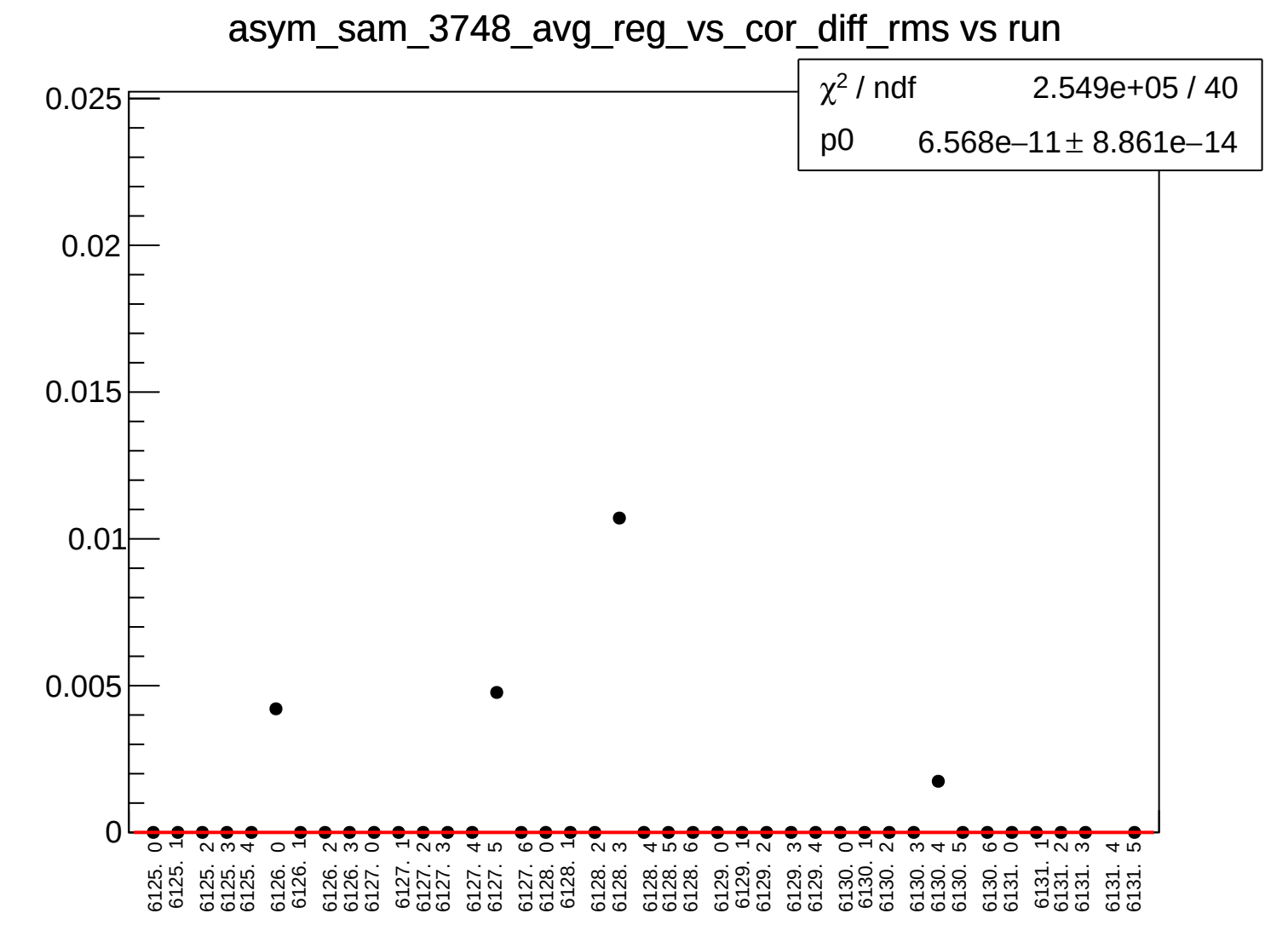

asym_sam_3748_avg_mean vs run
χ² / ndf 19.1 / 40
p0 1298 ± 2078
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 159.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1

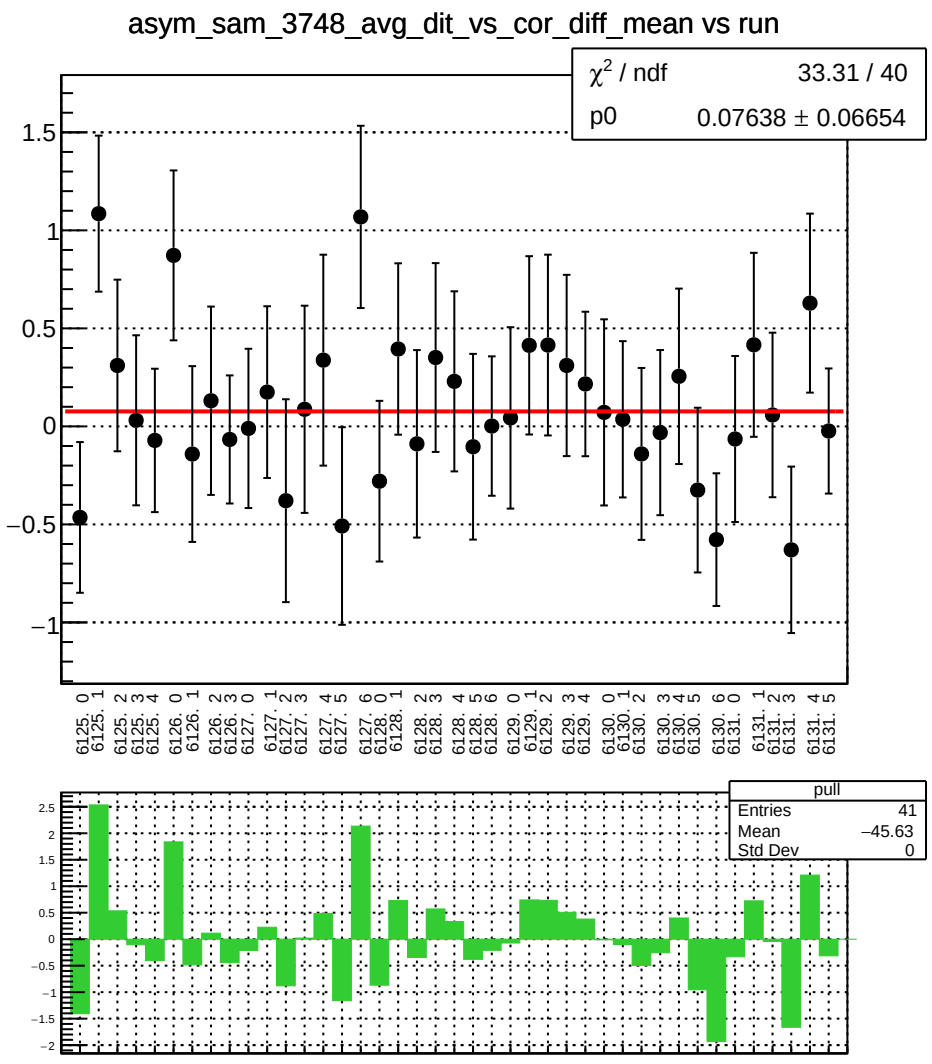

pull1D
Entries 41
Mean −0.009295
Std Dev 0.6824
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

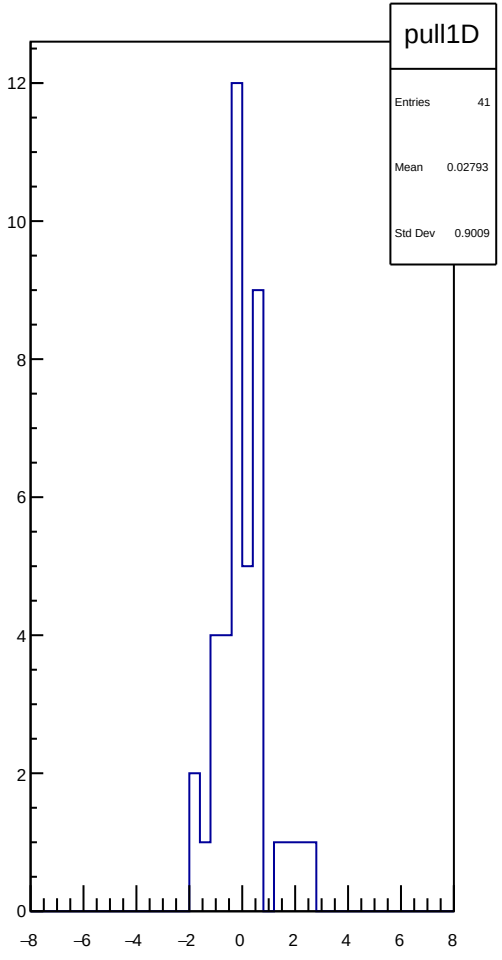

asym_sam_3748_avg_rms vs run
χ² / ndf 1446 / 40
p0 1316 ± 1.469
1500
1450
1400
1350
1300
1250
1200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

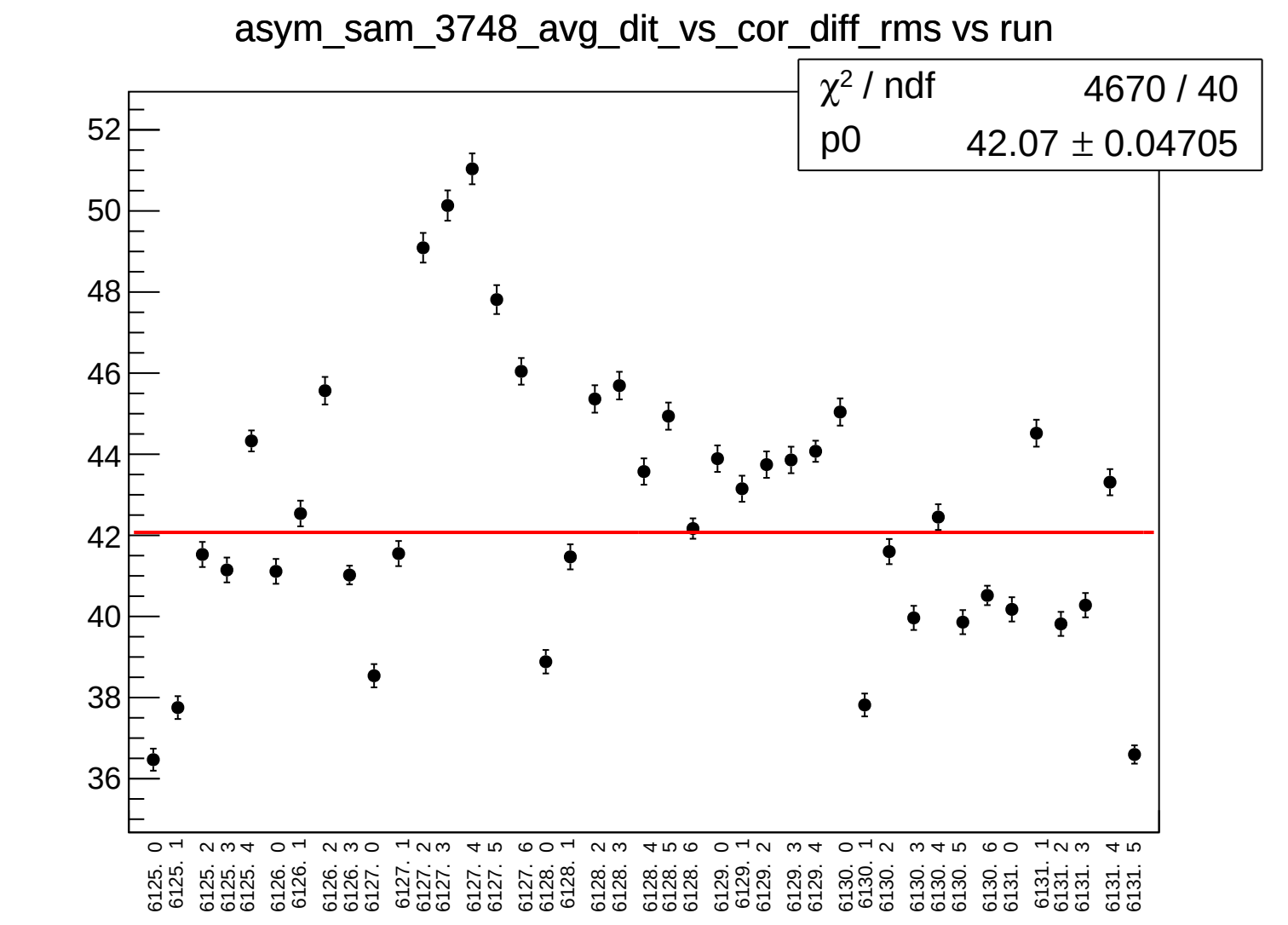

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 45.7 / 40
p0 2.498e−14 ± 1.253e−13
0.4
0.3
0.2
0.1
0
−0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 24.82
Std Dev 11.77
2
1
0
−1
−2

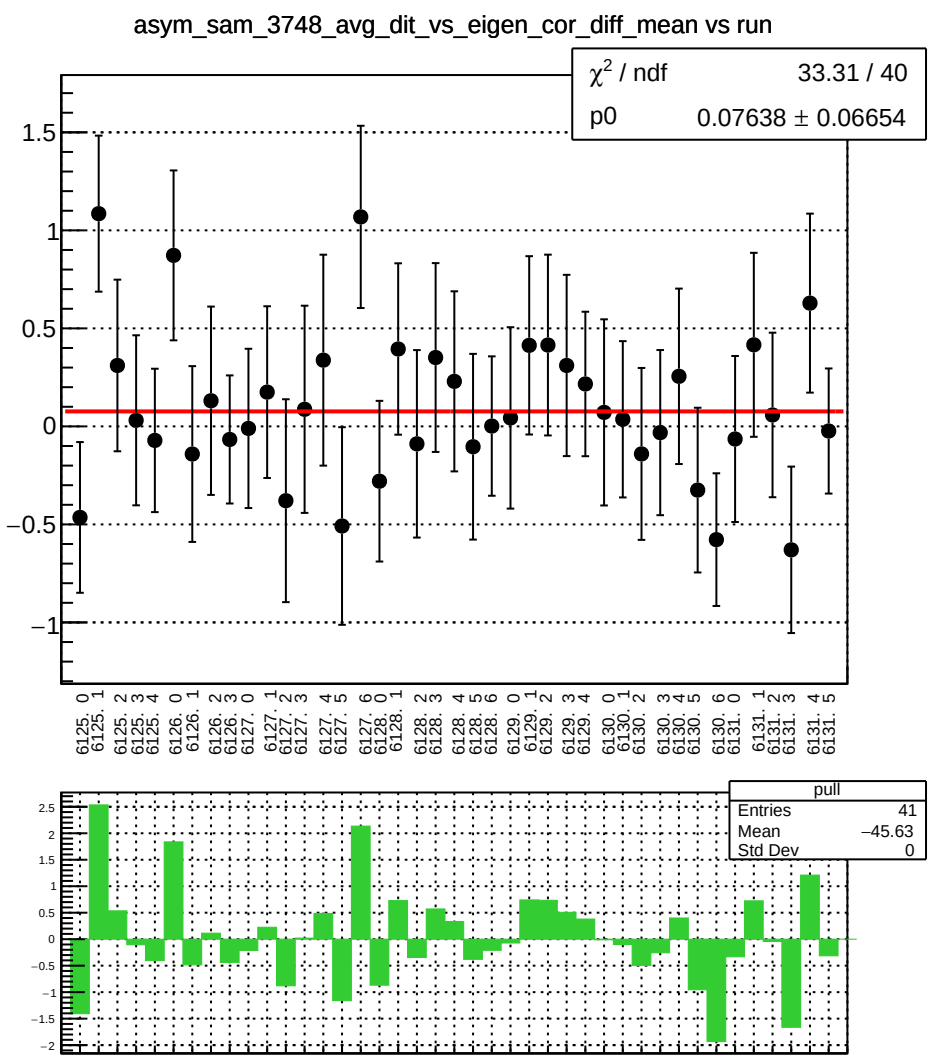

pull1D
Entries 41
Mean 0.06211
Std Dev 1.054
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

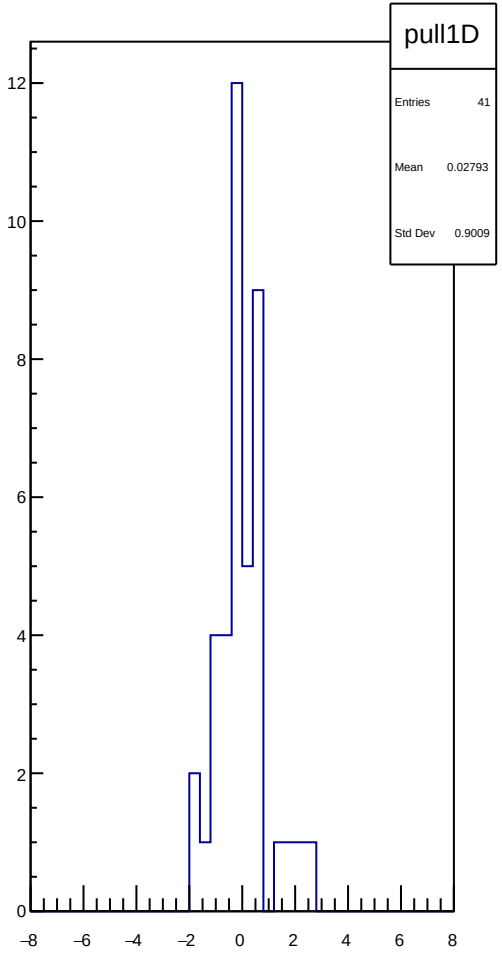

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.549e+05 / 40
p0 6.568e−11 ± 8.861e−14
0.025
0.02
0.015
0.01
0.005
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

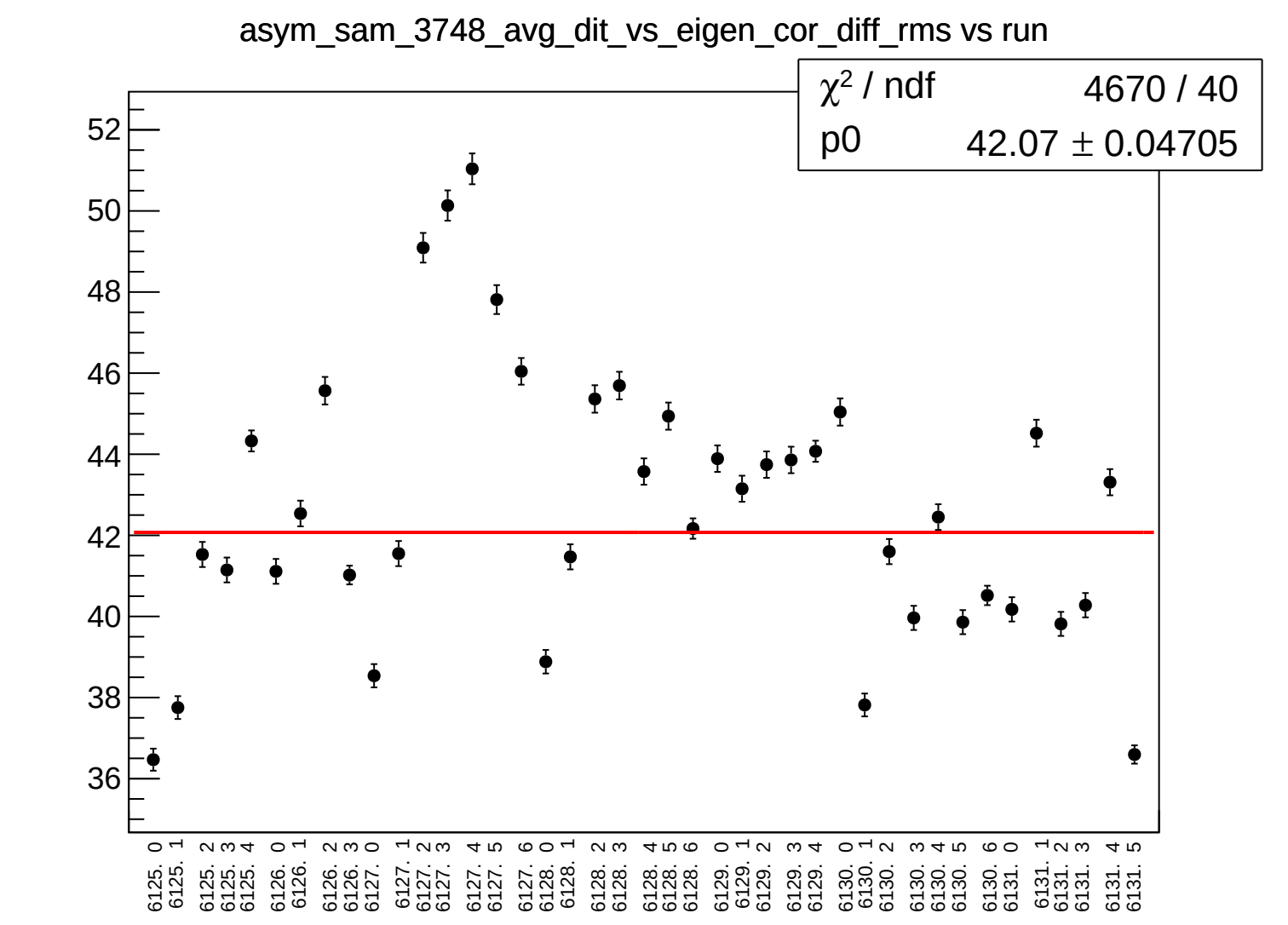

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 33.31 / 40
p0 0.07638 ± 0.06654
pull
Entries 41
Mean −45.63
Std Dev 0

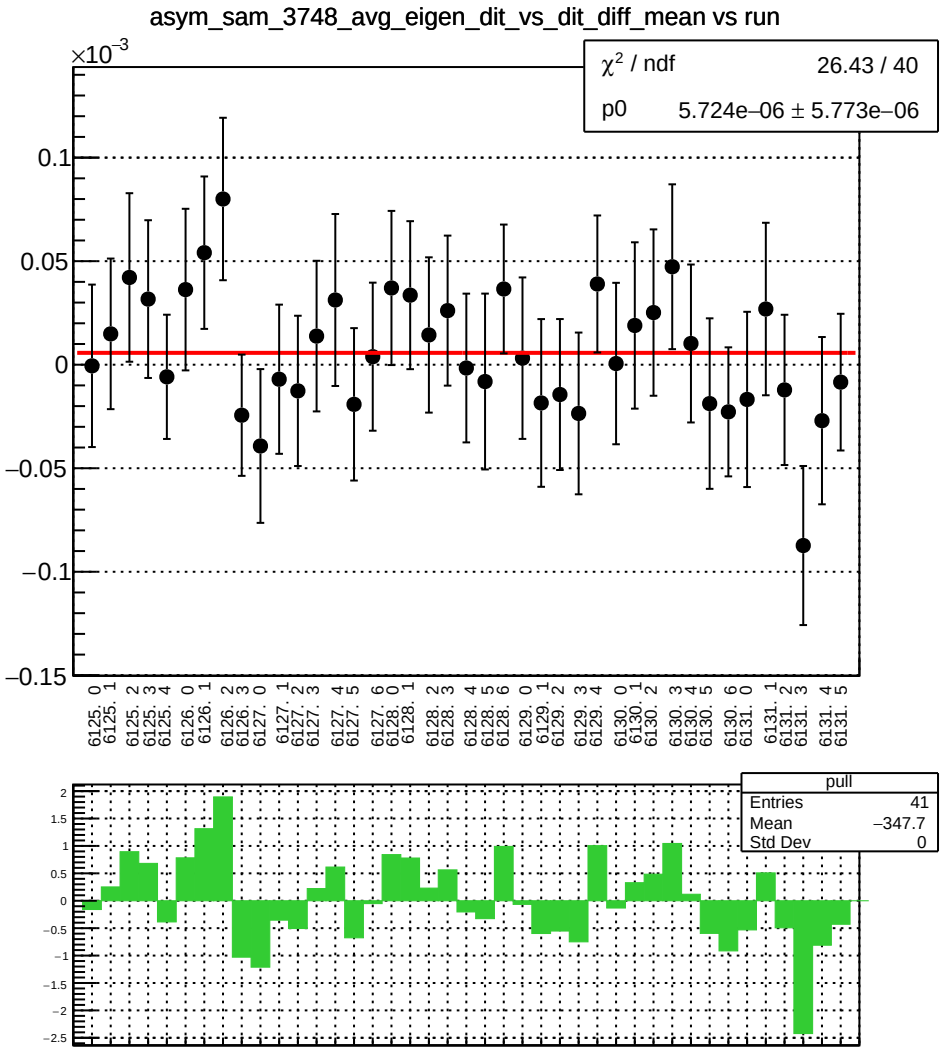

pull1D
Entries 41
Mean 0.02793
Std Dev 0.9009

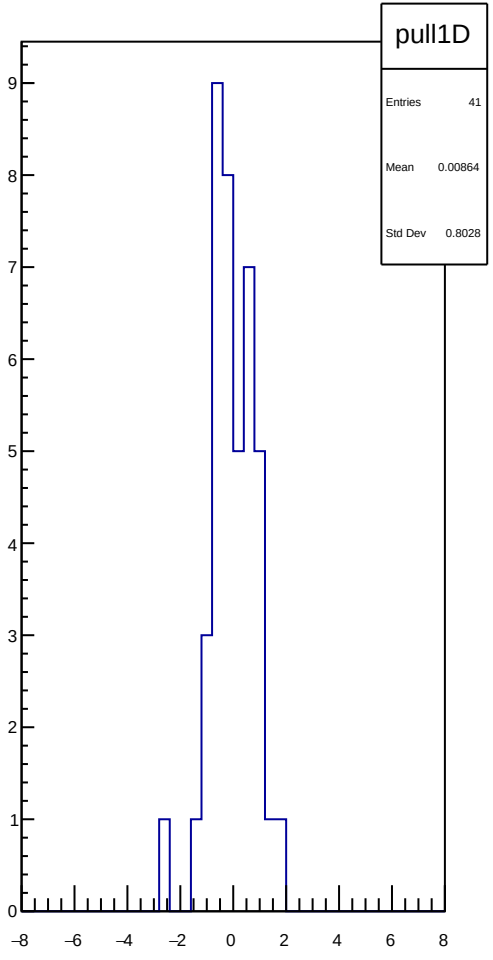

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4670 / 40
p0 42.07 ± 0.04705
52
50
48
46
44
42
40
38
36
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

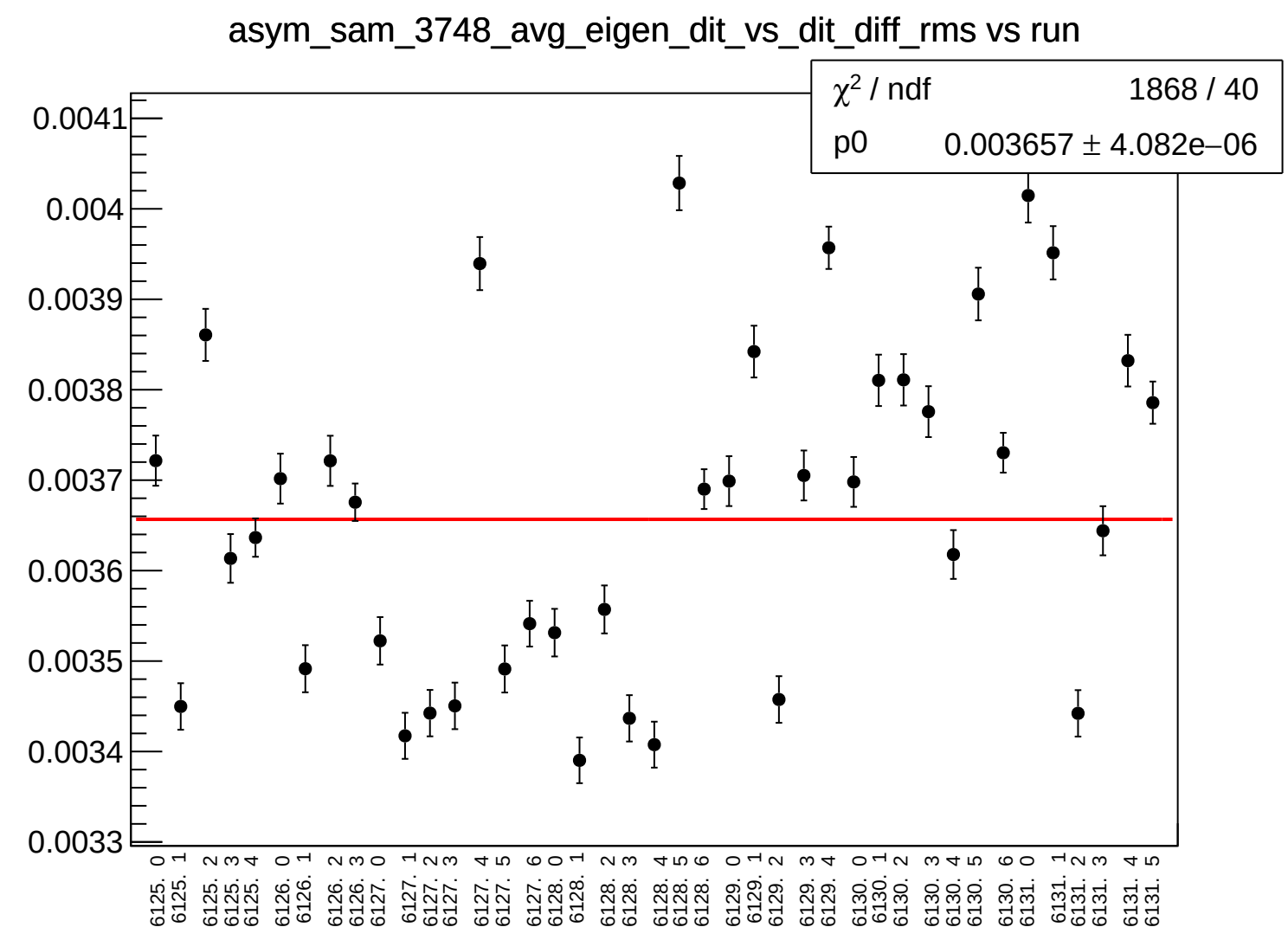

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.31 / 40
p0 0.07638 ± 0.06654
pull
Entries 41
Mean −45.63
Std Dev 0

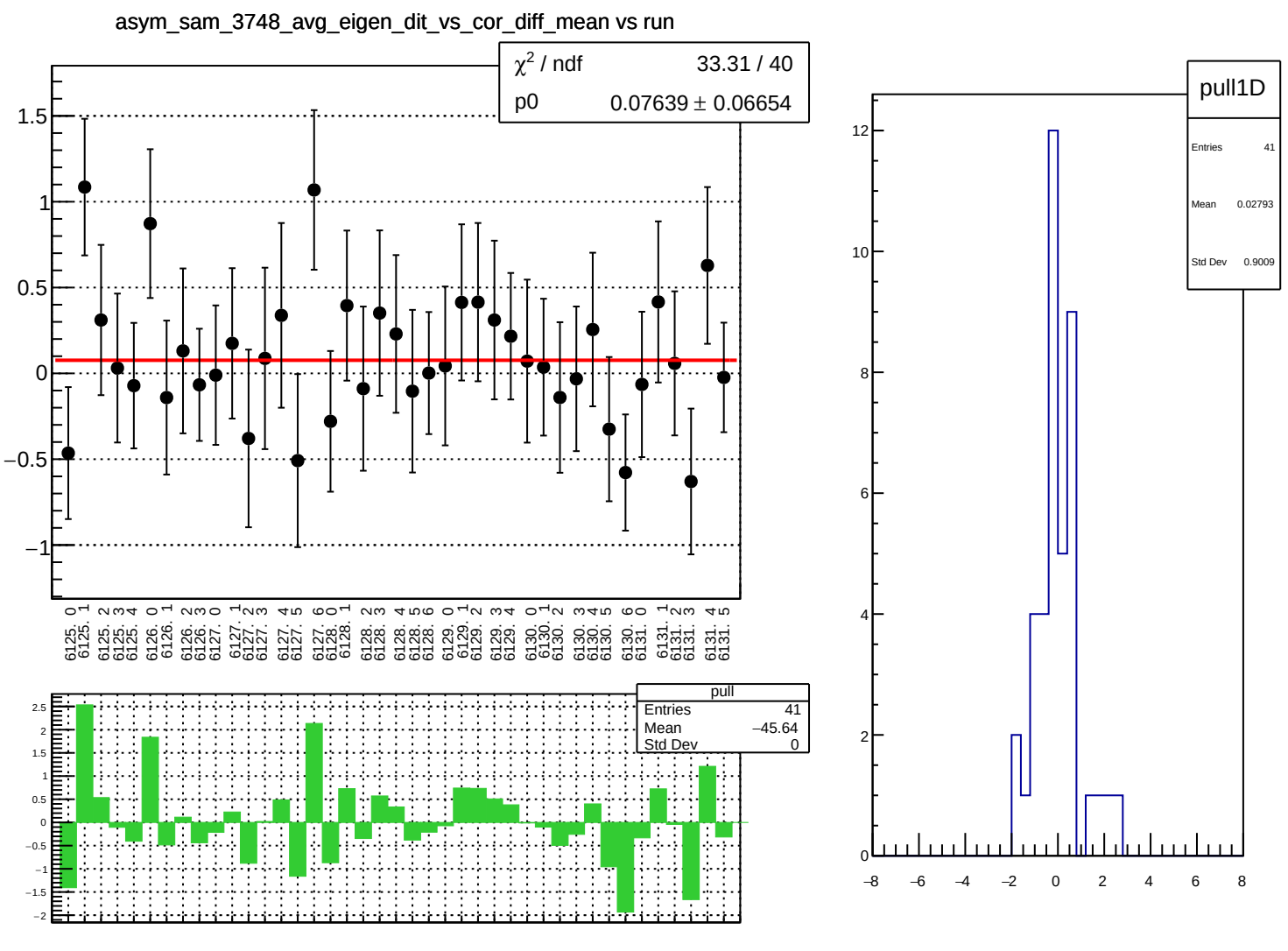

pull1D
Entries 41
Mean 0.02793
Std Dev 0.9009

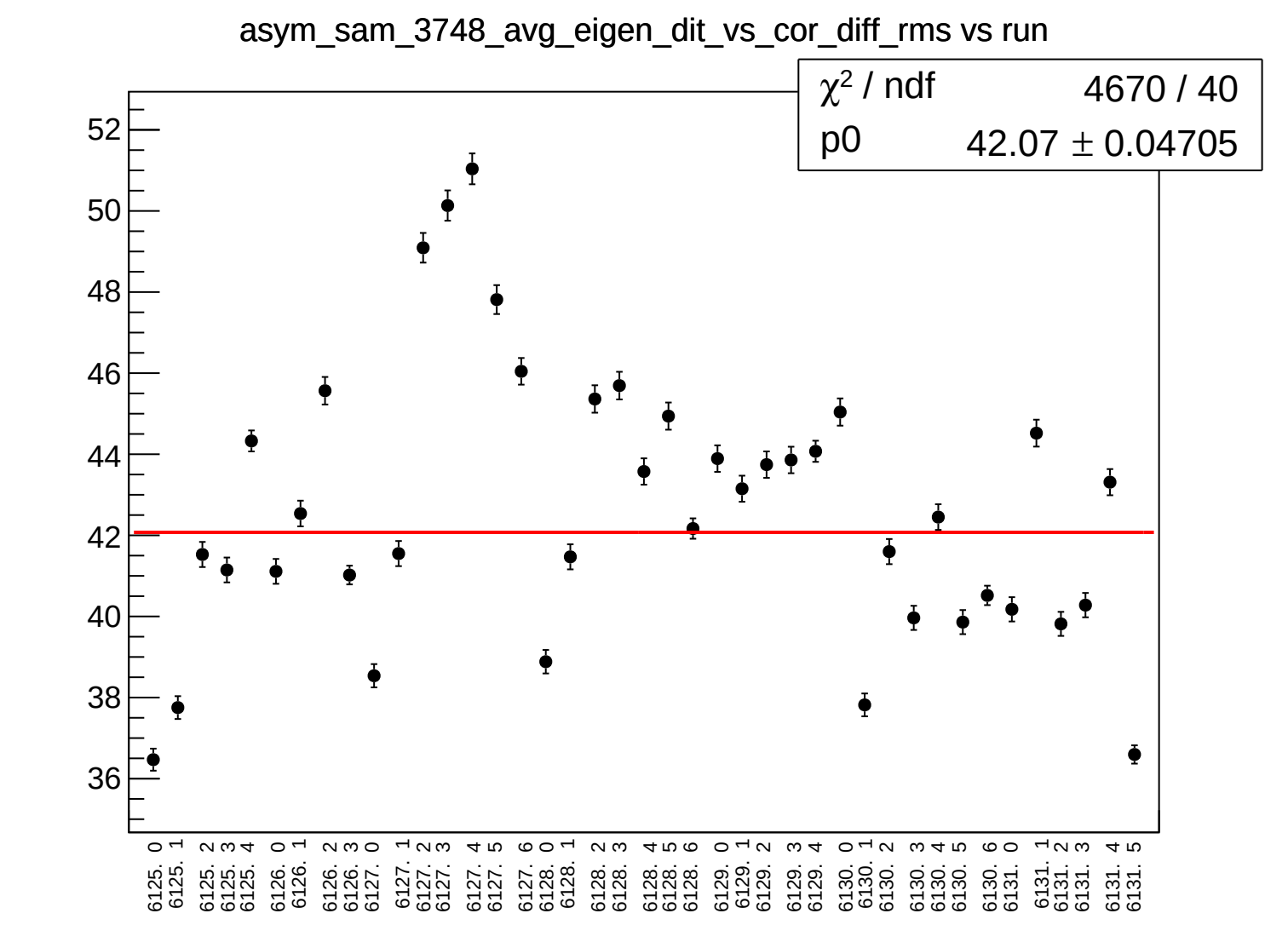

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4670 / 40
p0 42.07 ± 0.04705
52
50
48
46
44
42
40
38
36
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

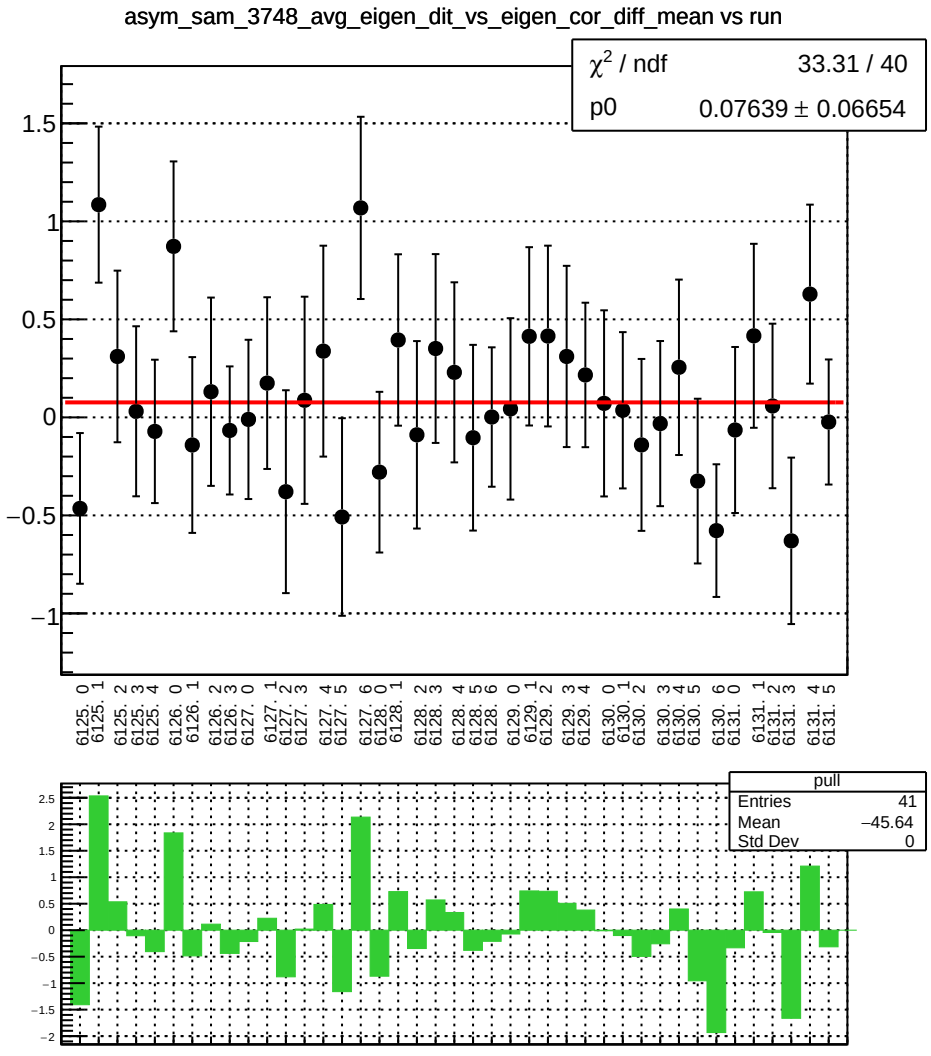

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 26.43 / 40
p0 5.724e−06 ± 5.773e−06
0.1
0.05
0
−0.05
−0.1
−0.15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −347.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

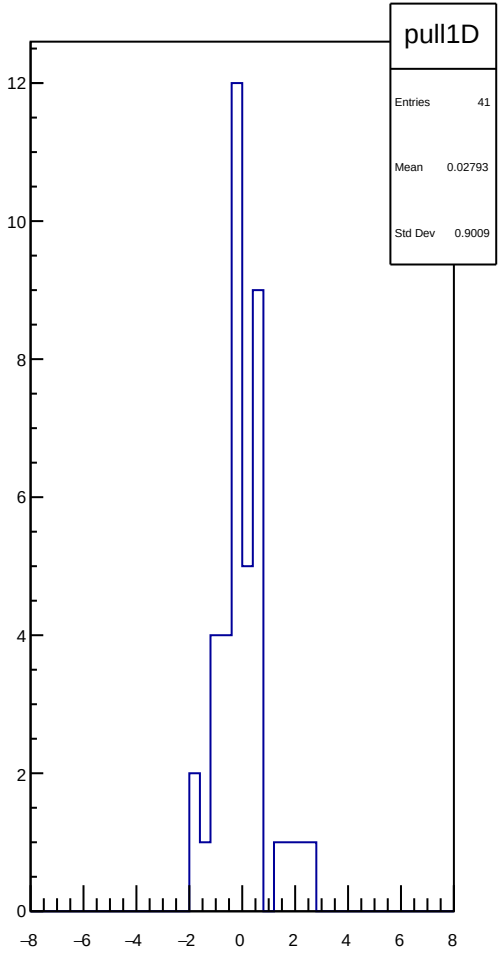

pull1D
Entries 41
Mean 0.00864
Std Dev 0.8028
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

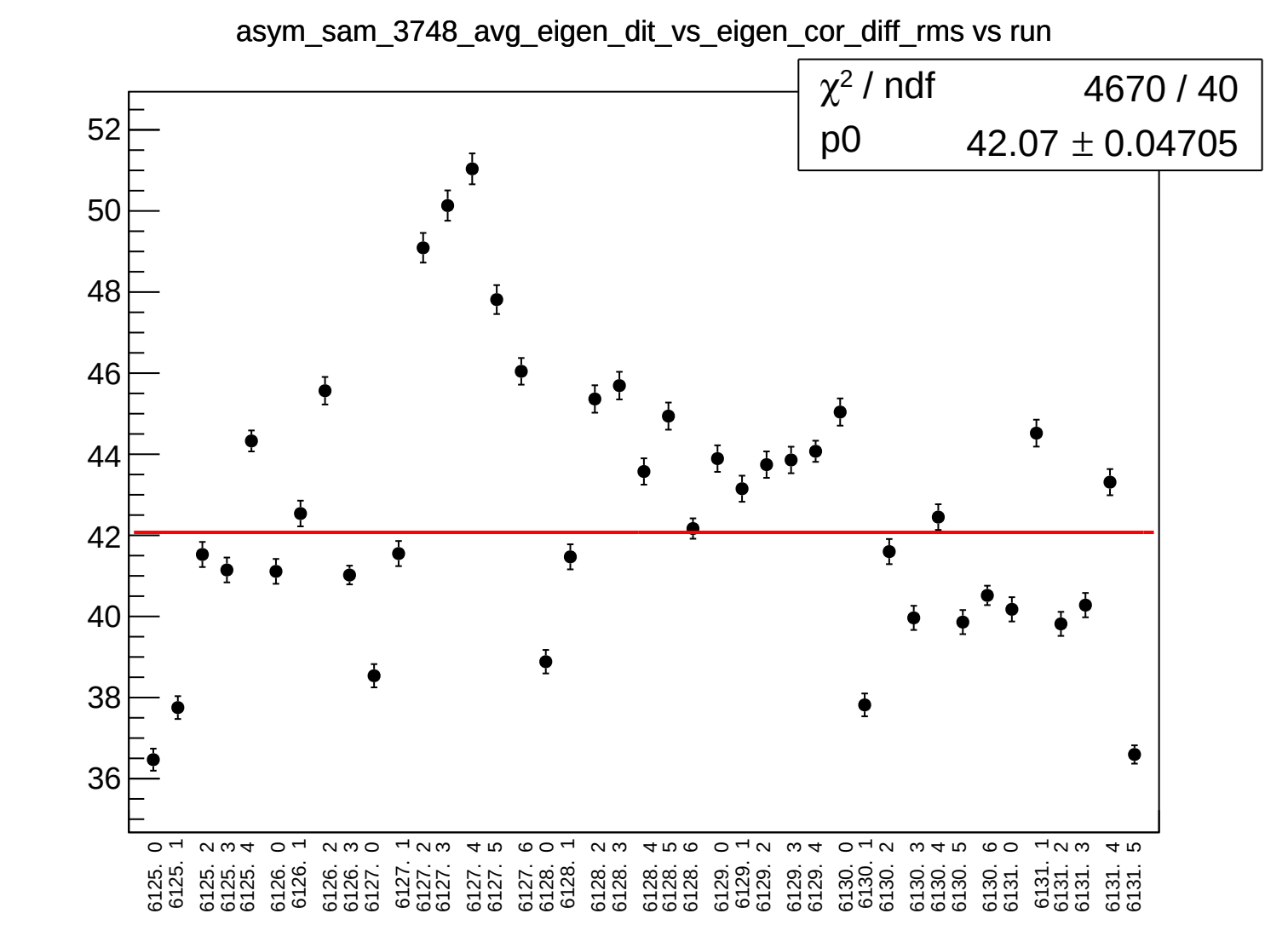

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1868 / 40
p0 0.003657 ± 4.082e−06
0.0041
0.004
0.0039
0.0038
0.0037
0.0036
0.0035
0.0034
0.0033
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

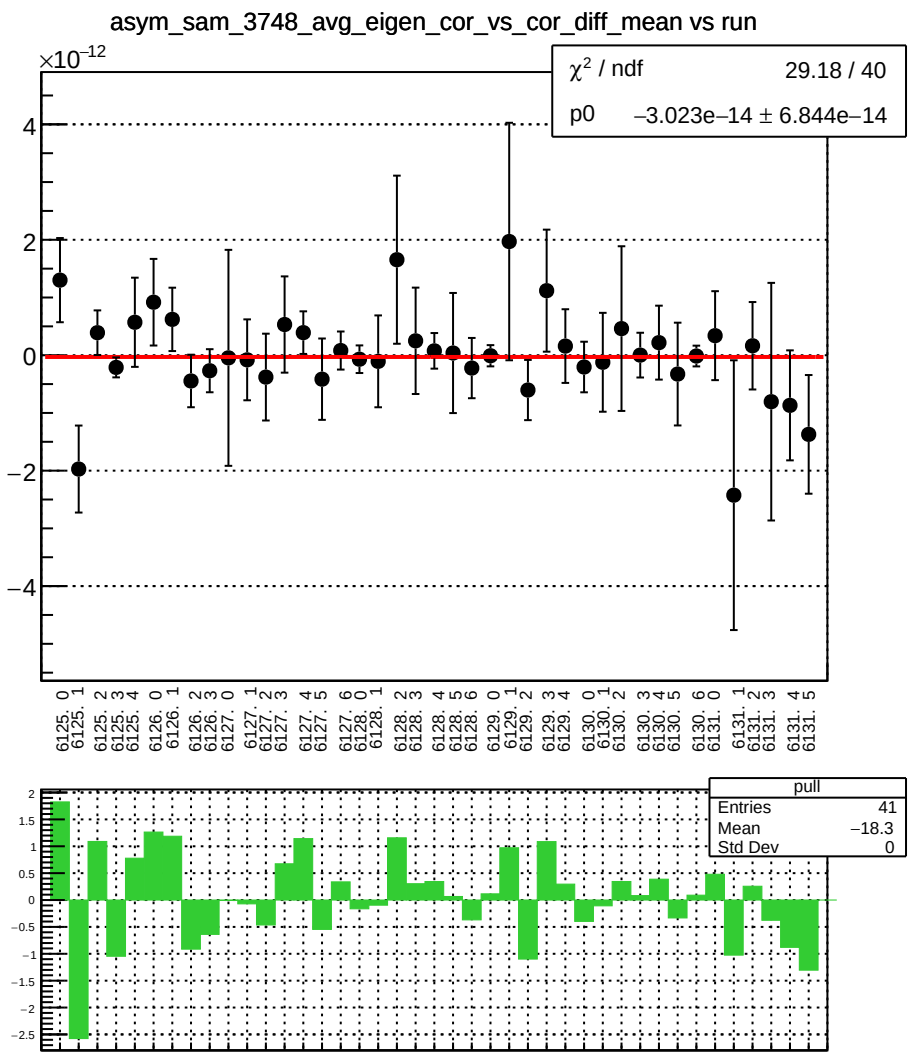

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 33.31 / 40
p0 0.07639 ± 0.06654
1.5
1
0.5
0
−0.5
−1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −45.64
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.02793
Std Dev 0.9009
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

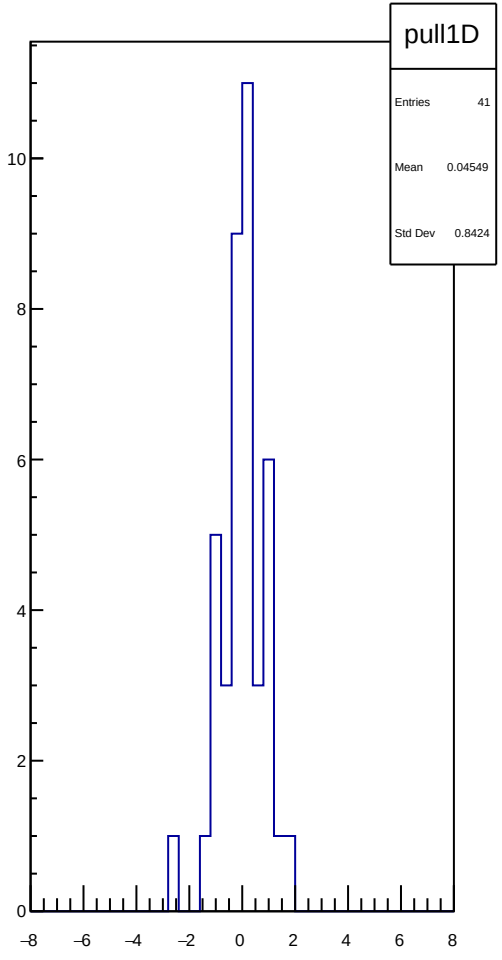

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4670 / 40
p0 42.07 ± 0.04705
52
50
48
46
44
42
40
38
36
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

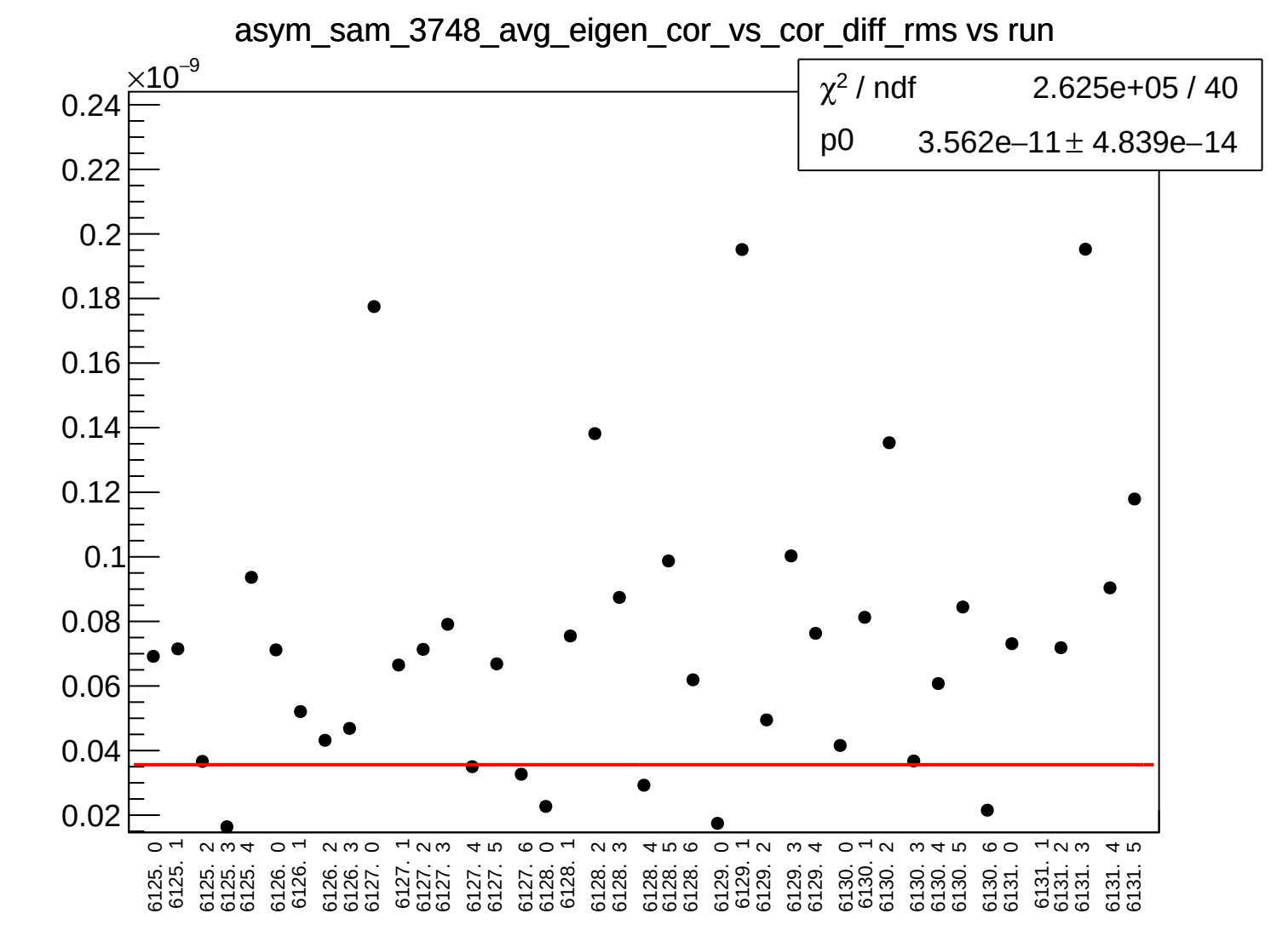

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.31 / 40
p0 0.07639 ± 0.06654
pull
Entries 41
Mean −45.64
Std Dev 0

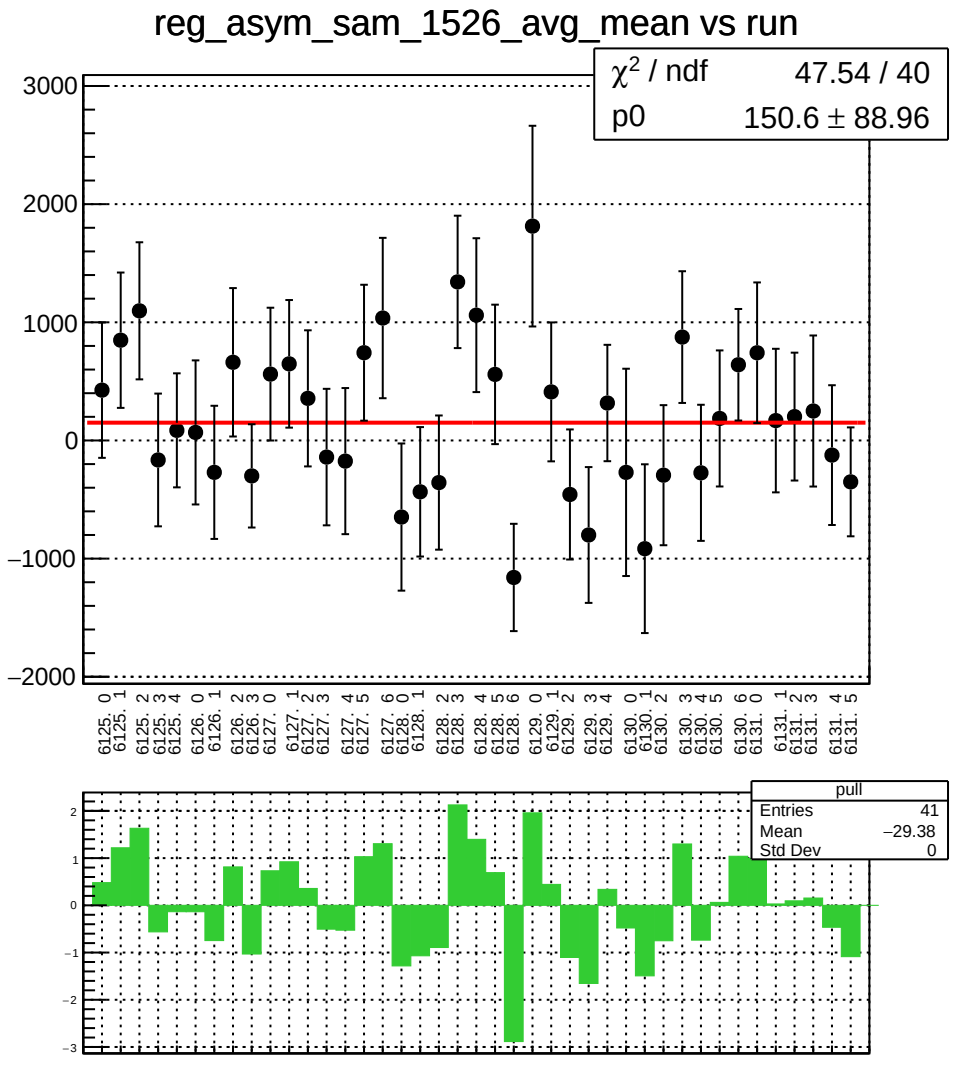

pull1D
Entries 41
Mean 0.02793
Std Dev 0.9009

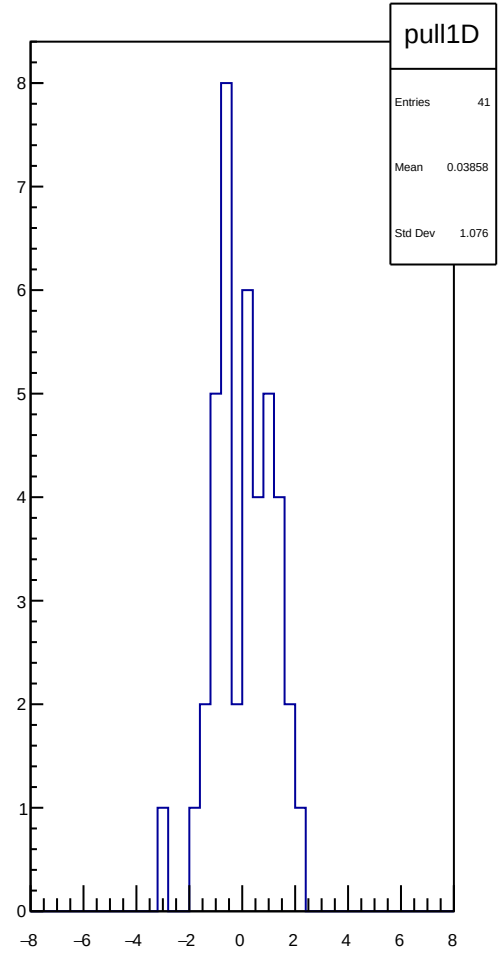

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4670 / 40
p0 42.07 ± 0.04705
52
50
48
46
44
42
40
38
36
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

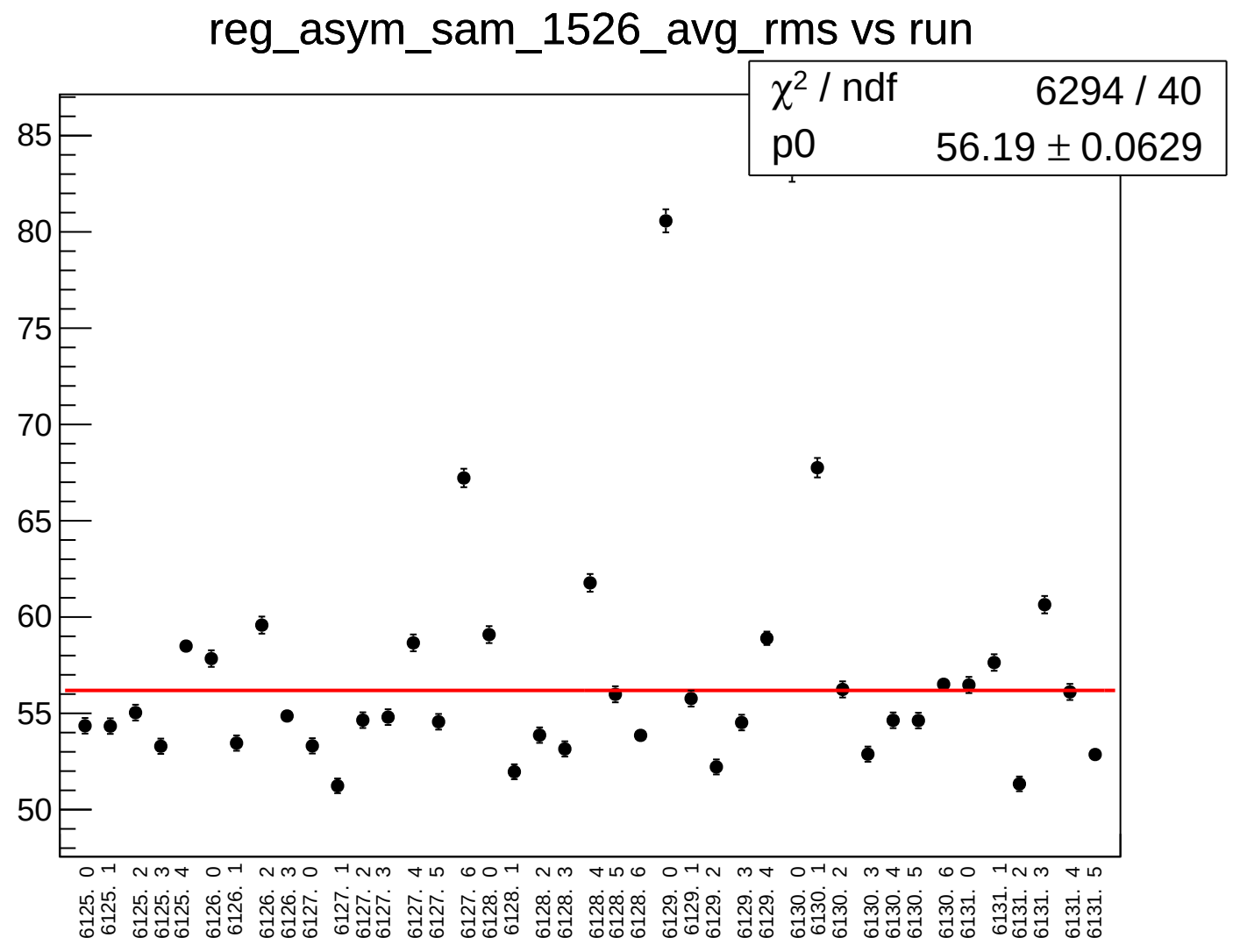

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 29.18 / 40
p0 −3.023e−14 ± 6.844e−14
4
2
0
−2
−4
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −18.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

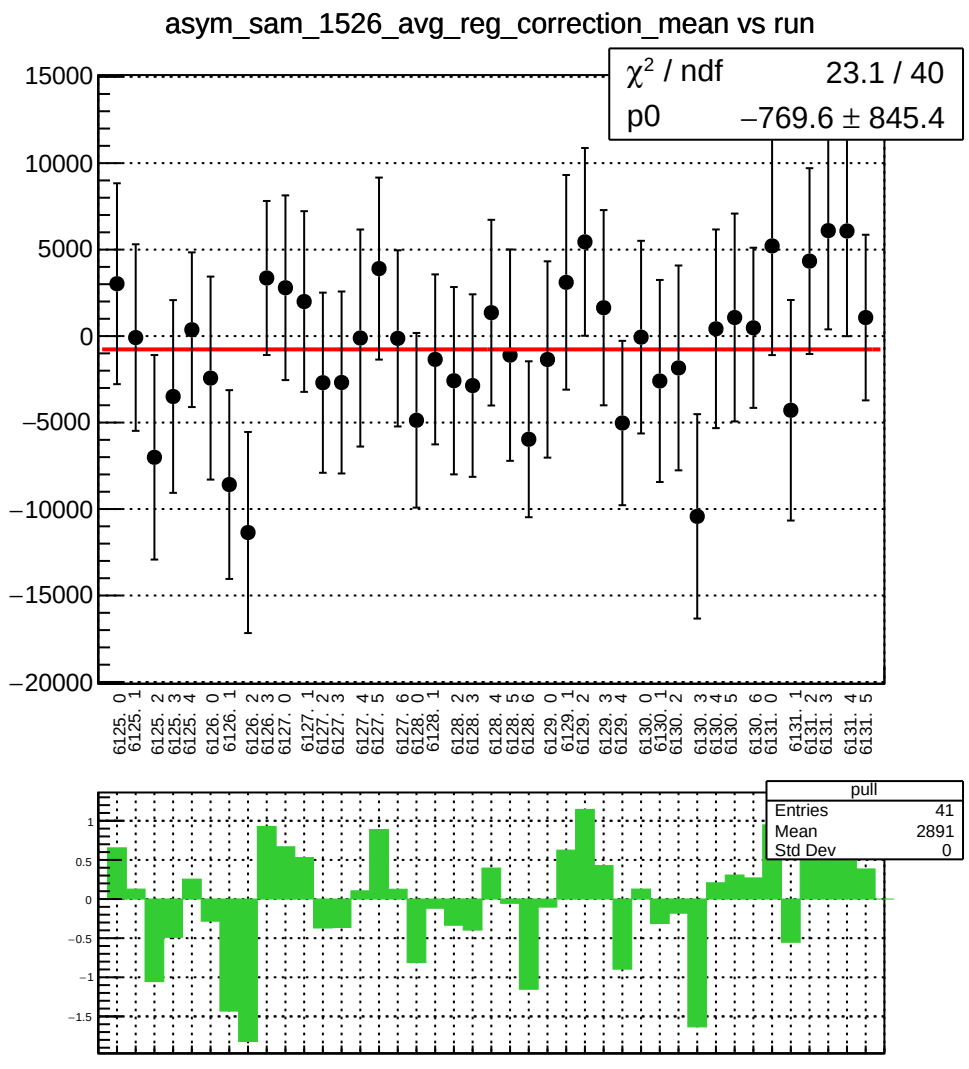

pull1D
Entries 41
Mean 0.04549
Std Dev 0.8424
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

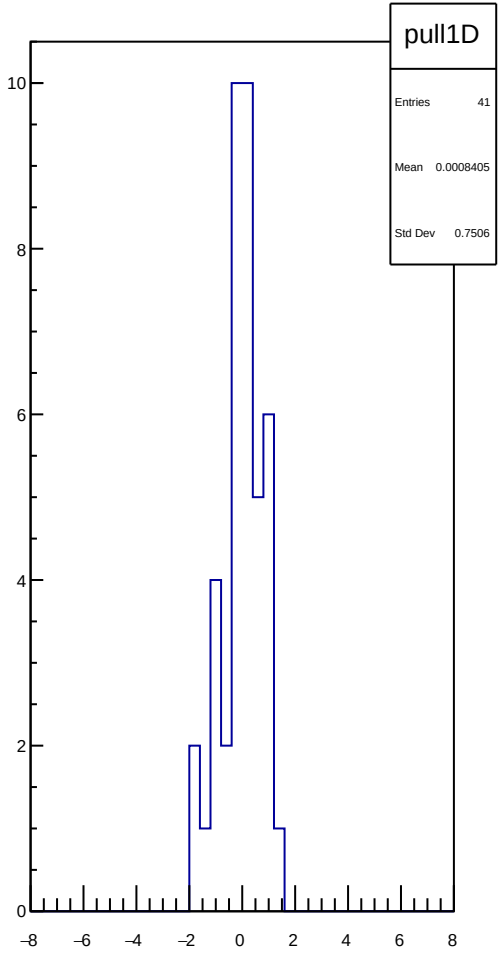

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.625e+05 / 40
p0 3.562e−11 ± 4.839e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

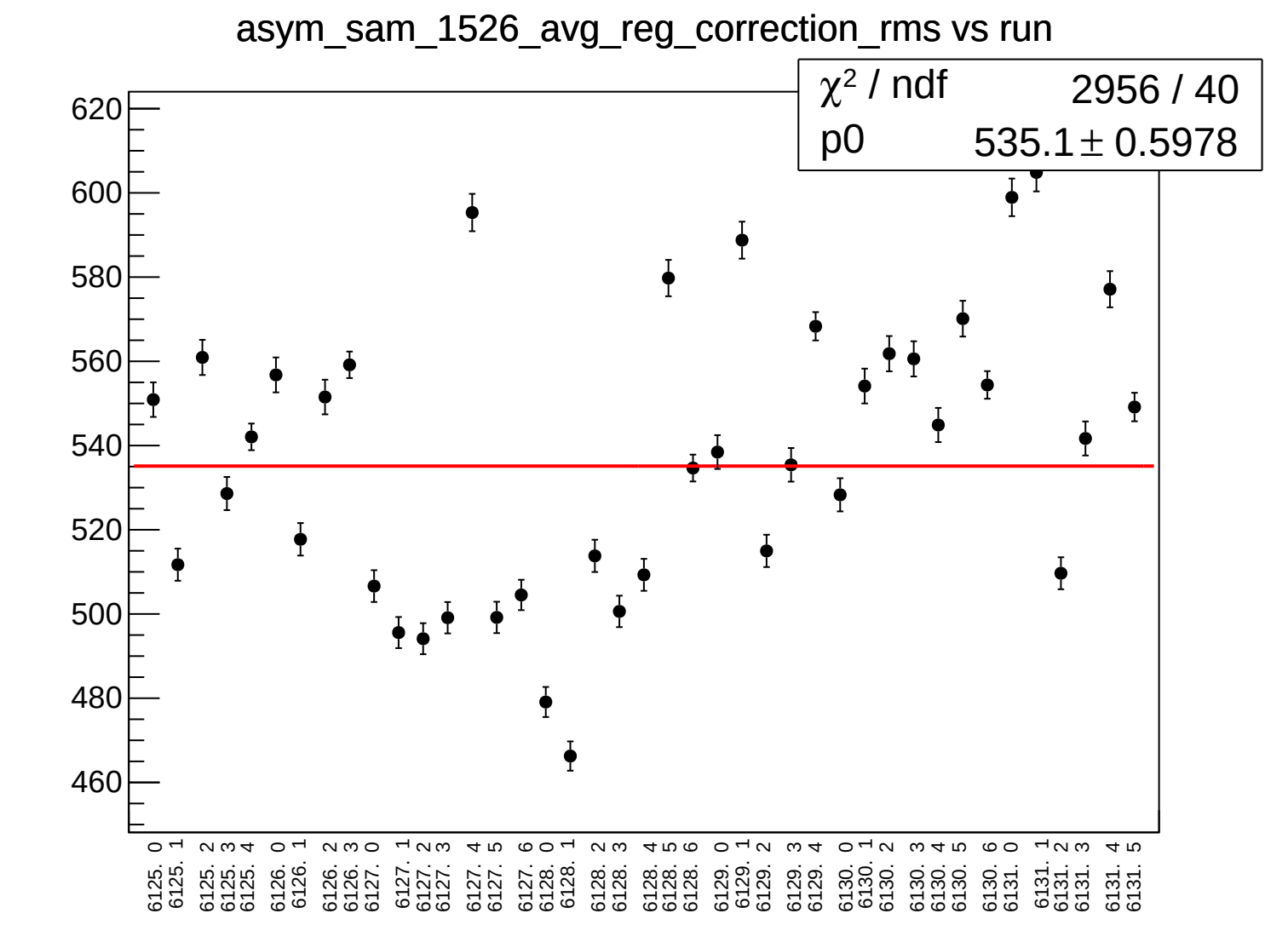

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 47.54 / 40
p0 150.6 ± 88.96
3000
2000
1000
0
−1000
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −29.38
Std Dev 0
2
1
0
−1
−2
−3

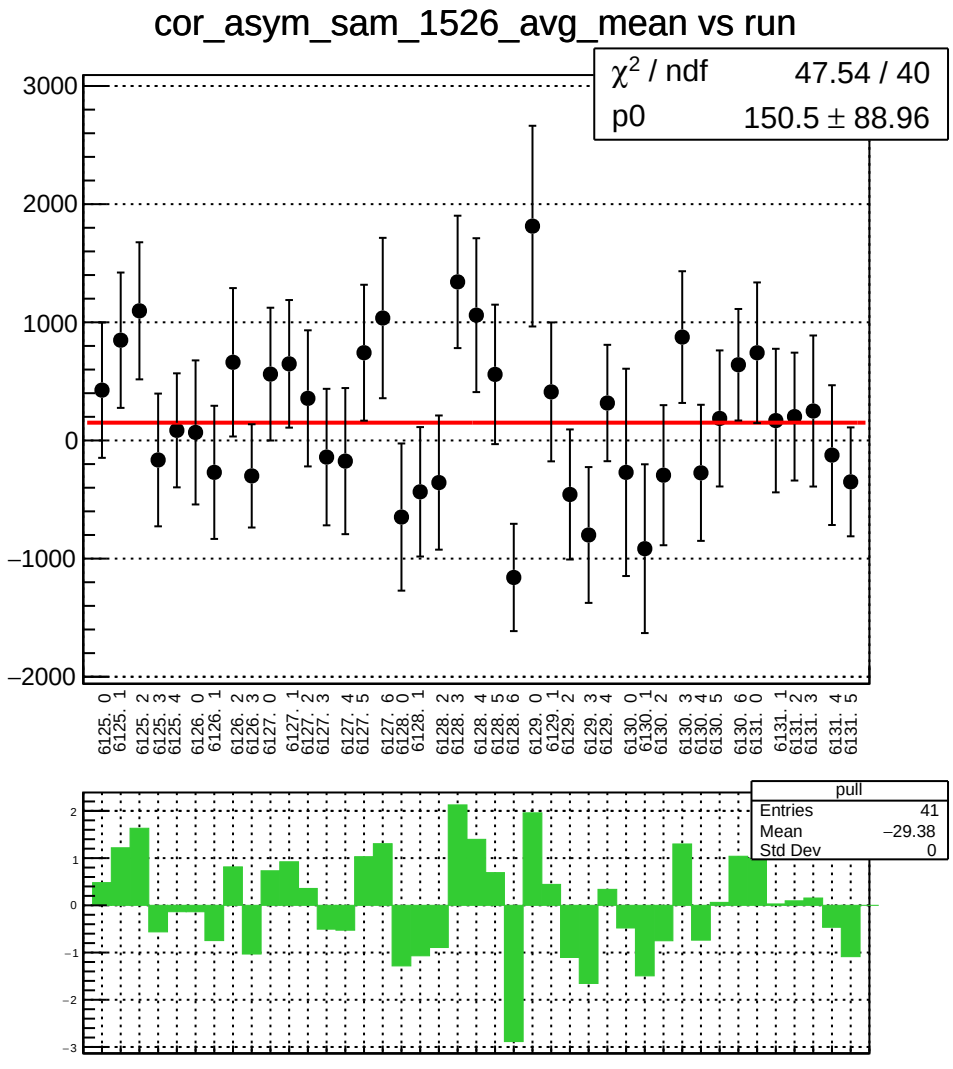

pull1D
Entries 41
Mean 0.03858
Std Dev 1.076
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

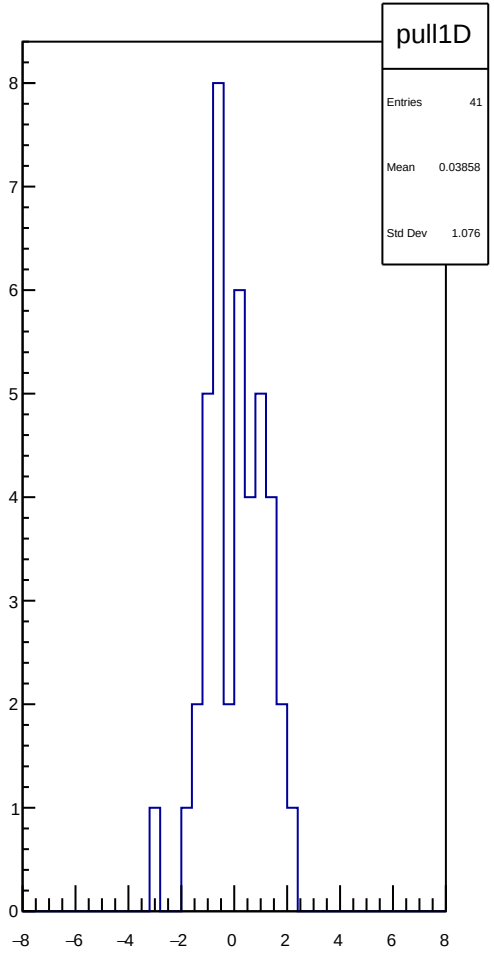

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 6294 / 40
p0 56.19 ± 0.0629
85
80
75
70
65
60
55
50
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

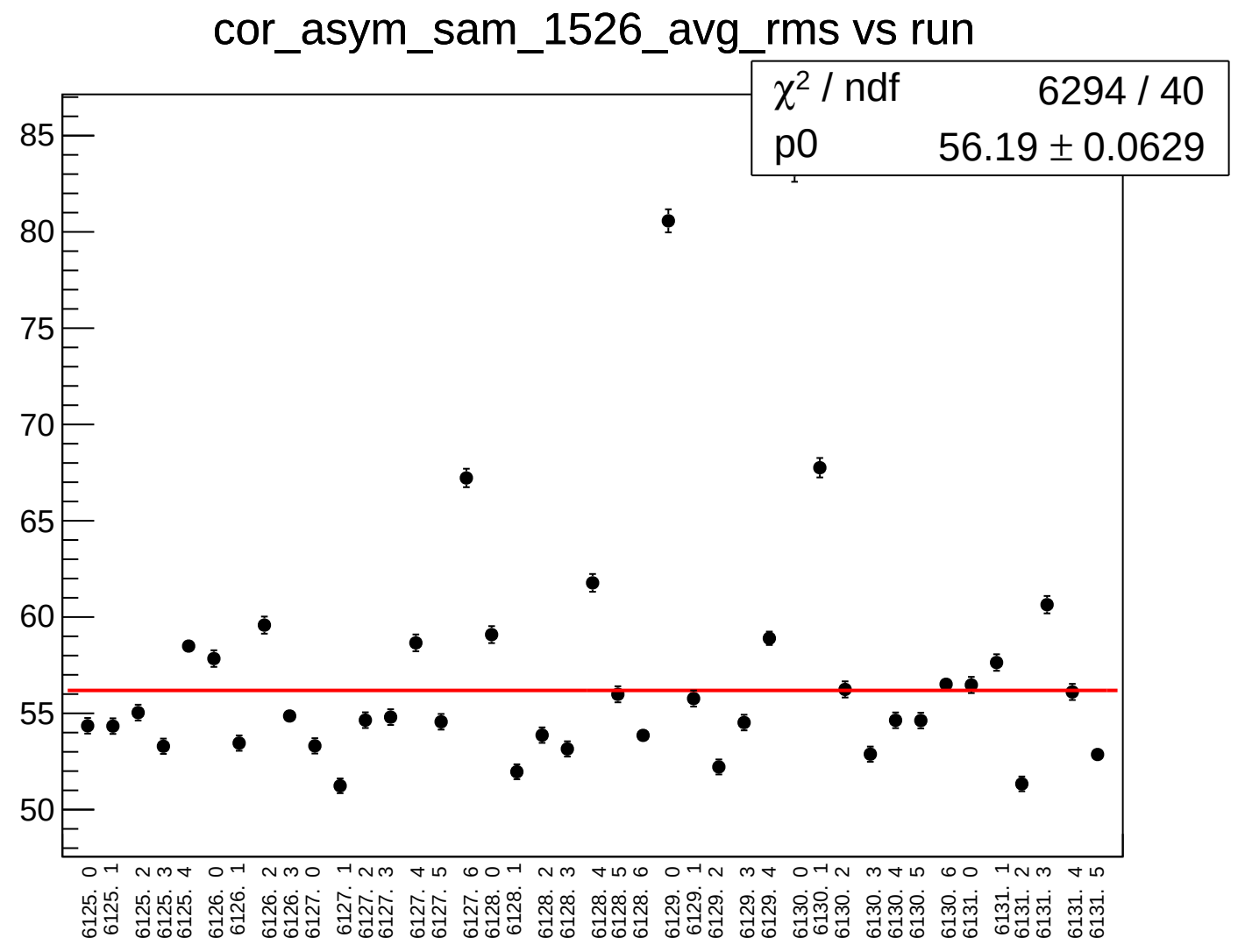

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 23.1 / 40
p0 −769.6 ± 845.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 2891
Std Dev 0
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.0008405
Std Dev 0.7506
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 2956 / 40
p0 535.1 ± 0.5978
620
600
580
560
540
520
500
480
460
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


cor_asym_sam_1526_avg_mean vs run
χ² / ndf 47.54 / 40
p0 150.5 ± 88.96
pull
Entries 41
Mean −29.38
Std Dev 0


pull1D
Entries 41
Mean 0.03858
Std Dev 1.076


cor_asym_sam_1526_avg_rms vs run
χ² / ndf 6294 / 40
p0 56.19 ± 0.0629
85
80
75
70
65
60
55
50
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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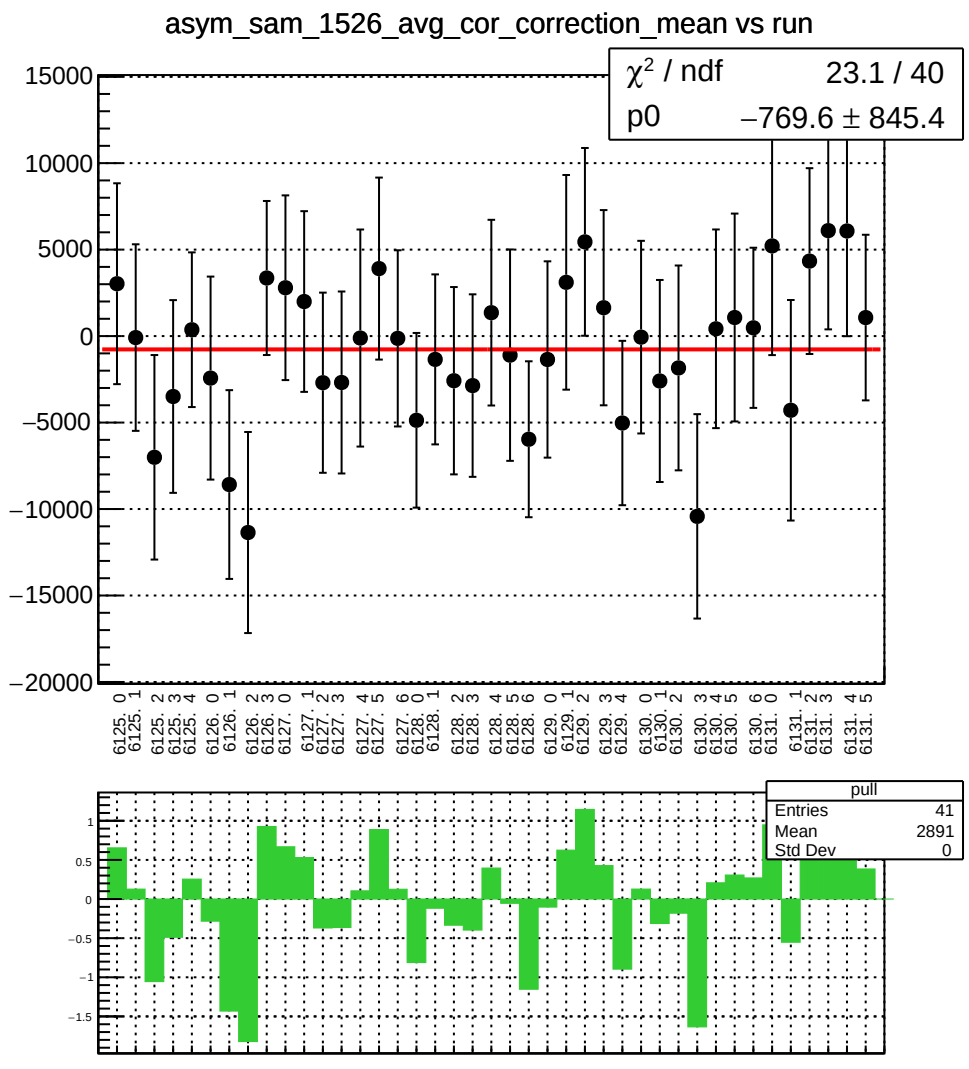
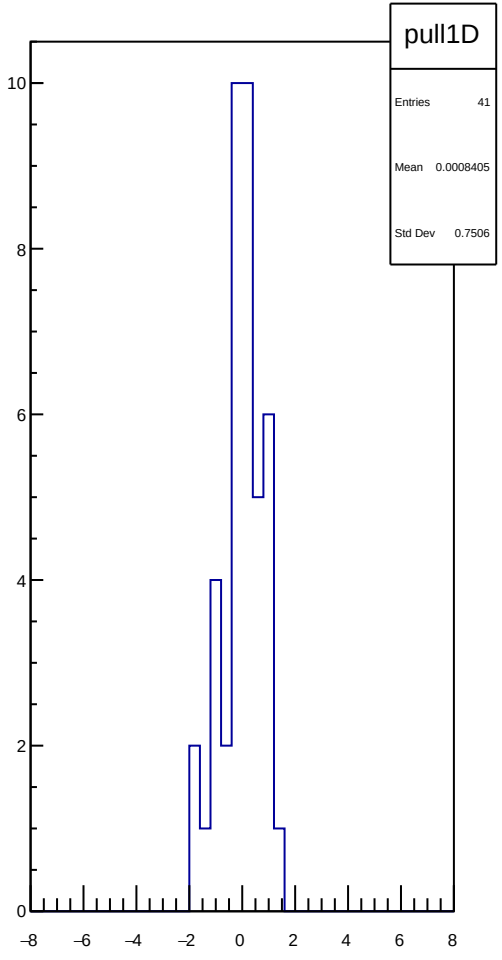
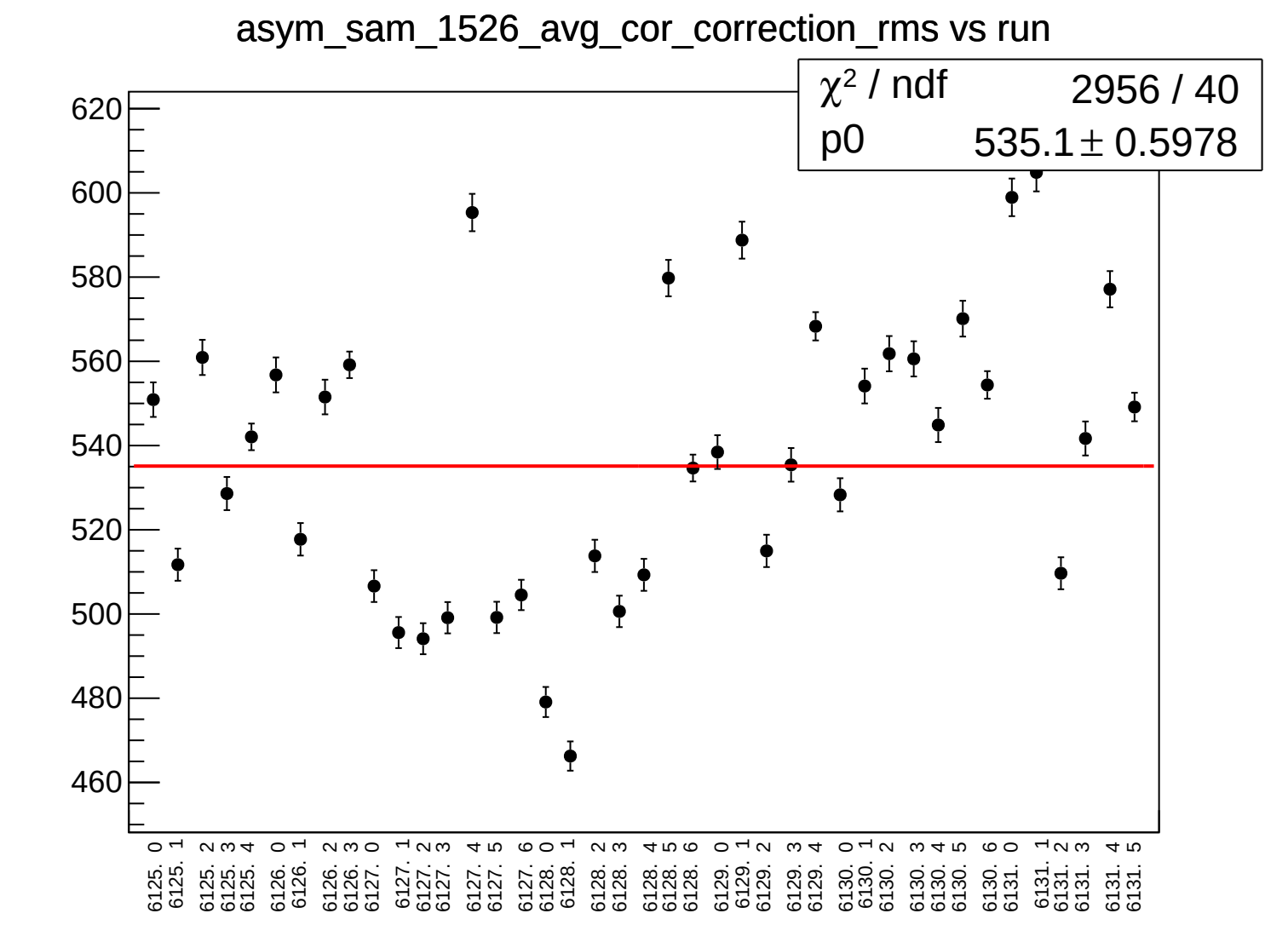
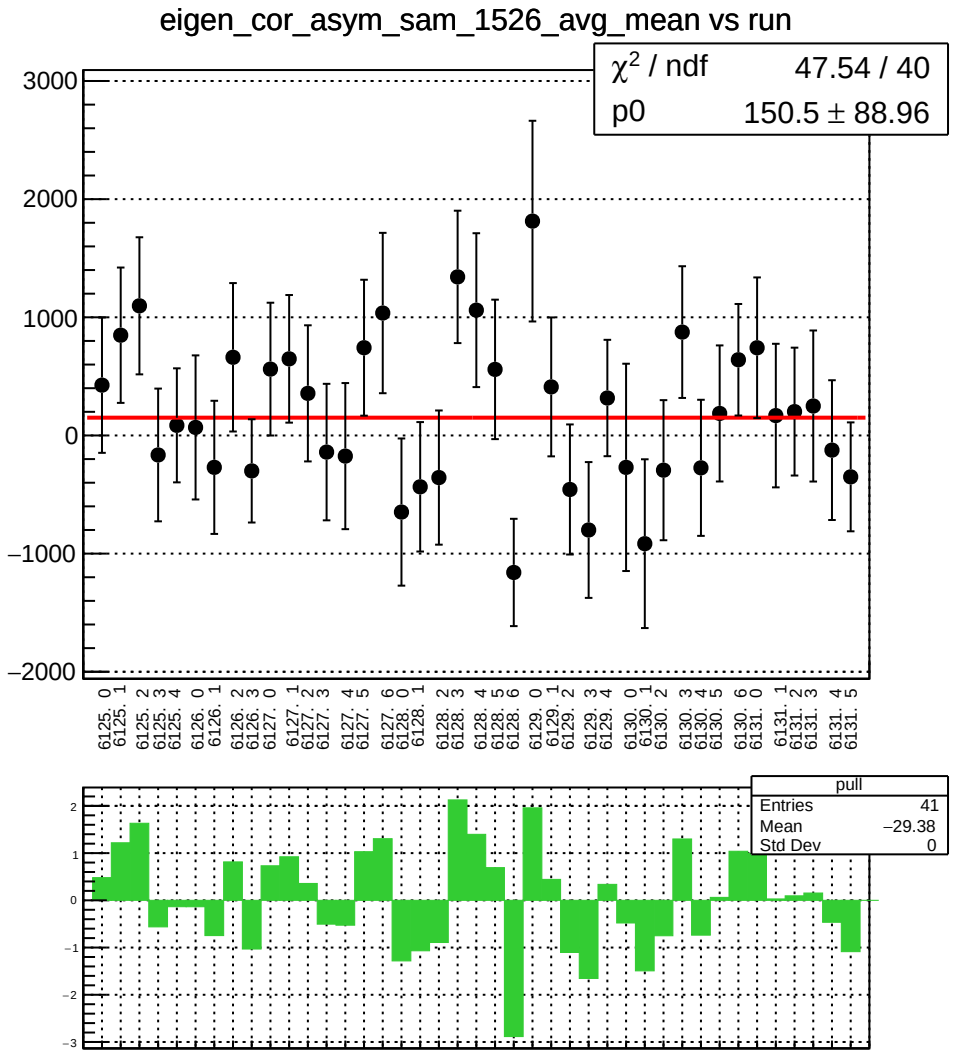
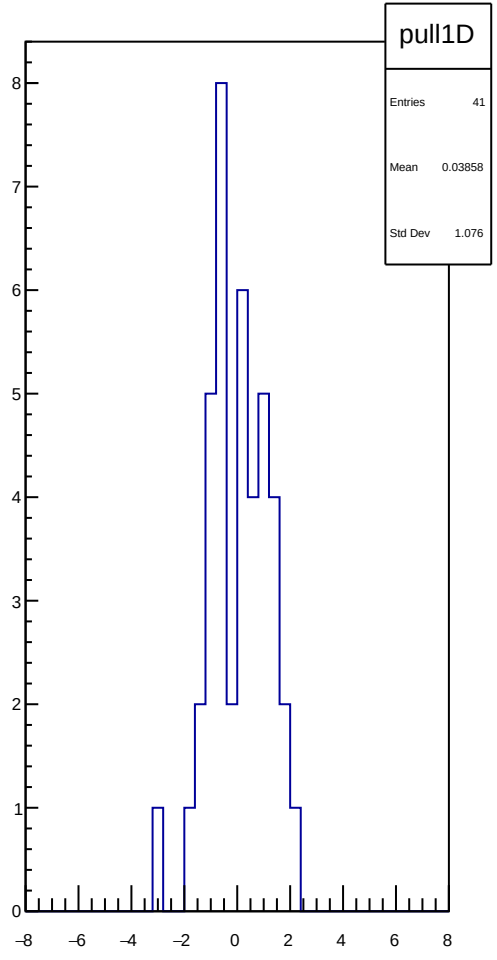
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

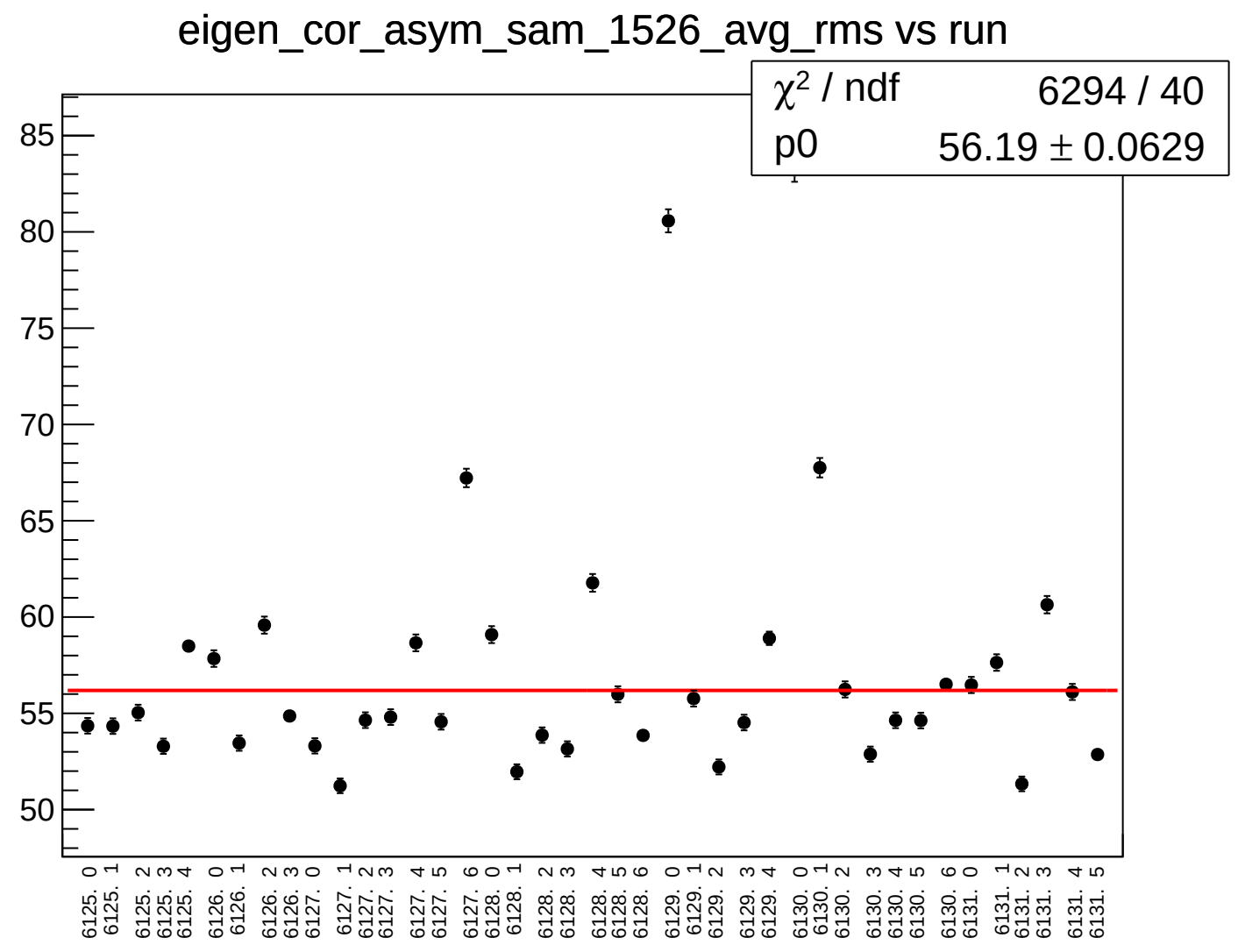

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 23.1 / 40
p0 −769.6 ± 845.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 2891
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

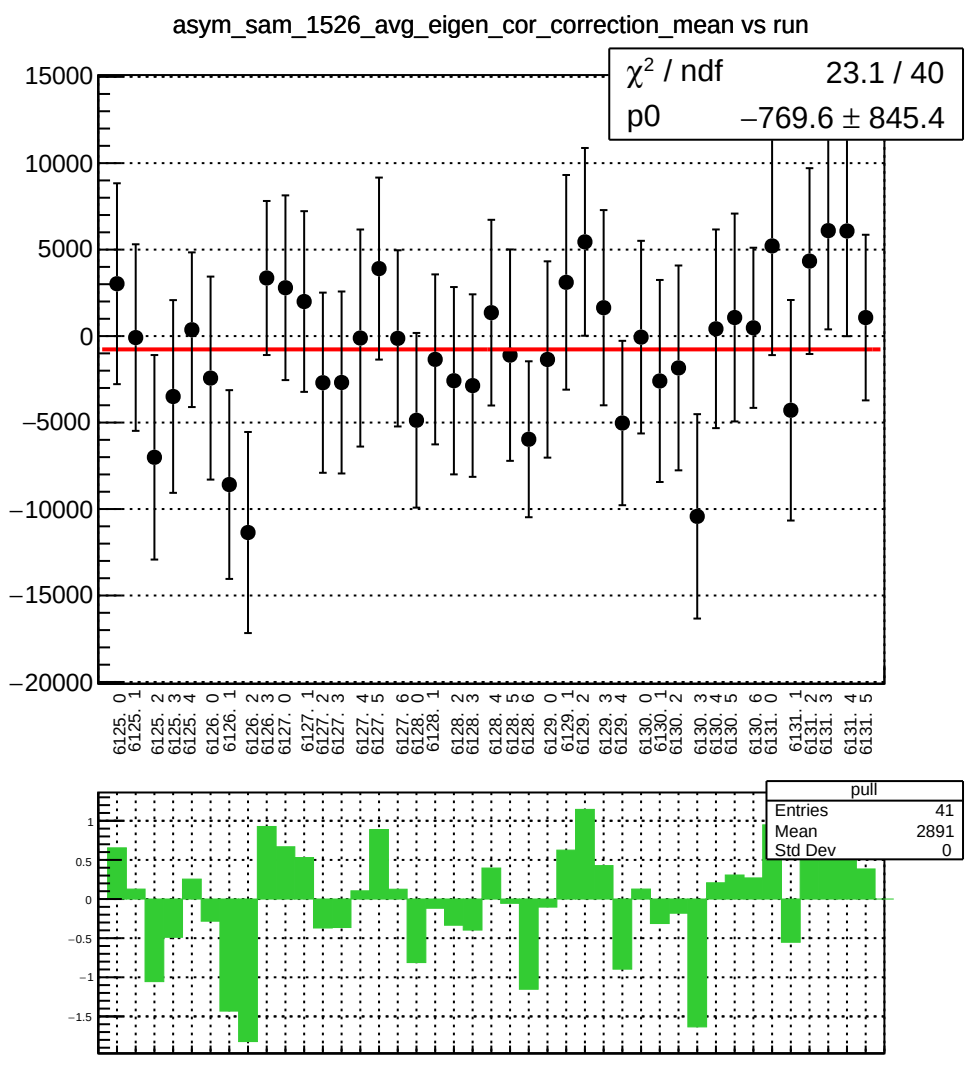

pull1D
Entries 41
Mean 0.0008405
Std Dev 0.7506
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

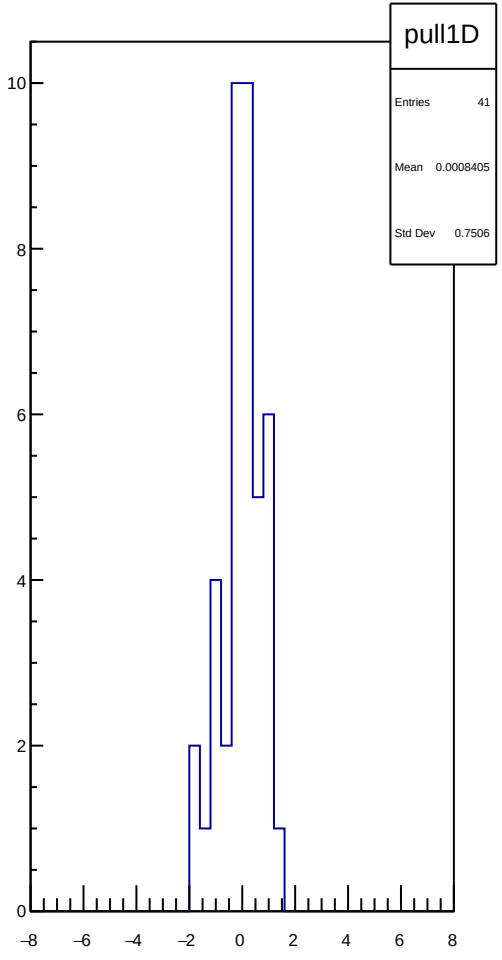

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 2956 / 40
p0 535.1 ± 0.5978
620
600
580
560
540
520
500
480
460
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

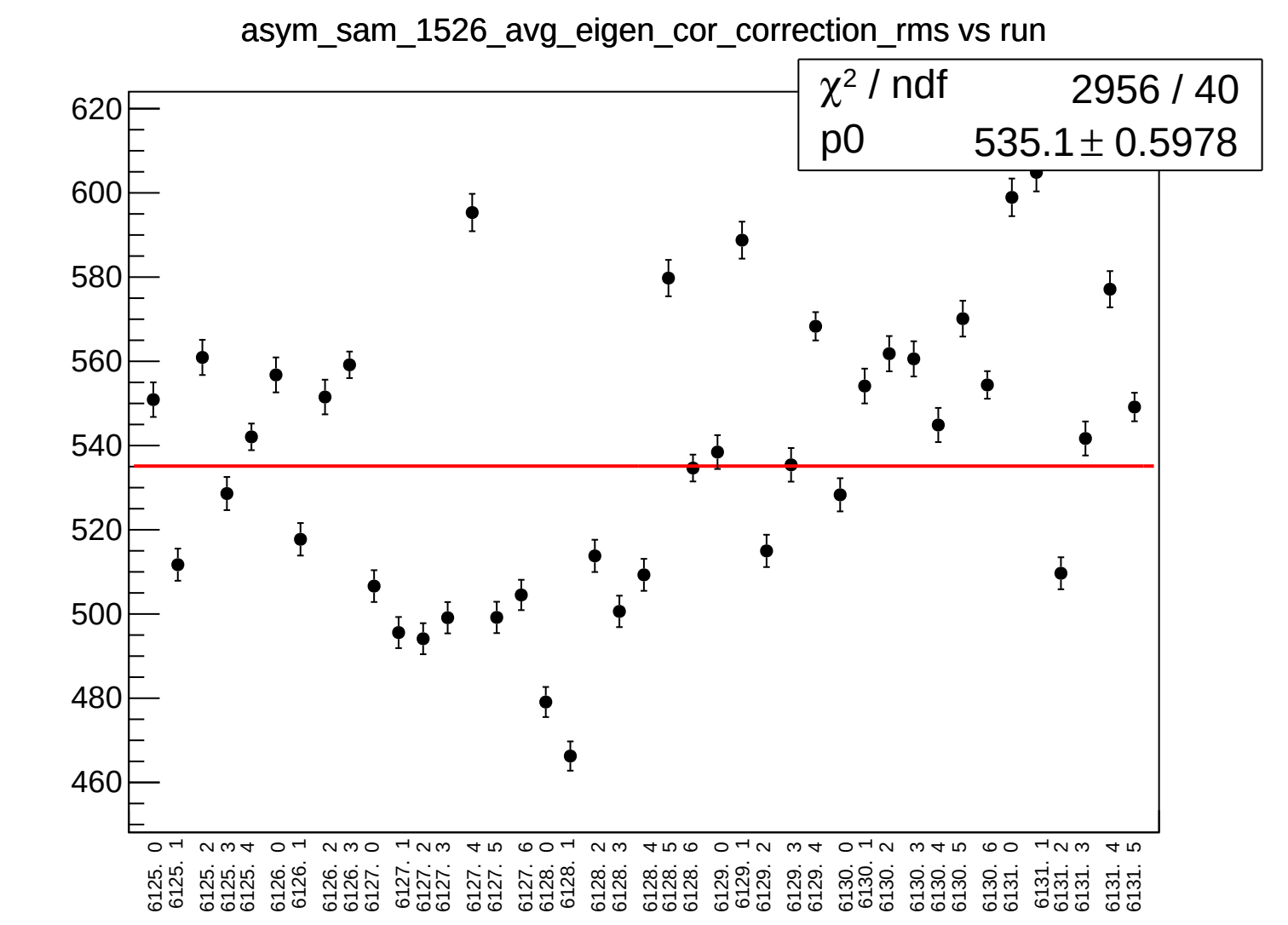

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 47.54 / 40
p0 150.5 ± 88.96
3000
2000
1000
0
−1000
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −29.38
Std Dev 0
2
1
0
−1
−2
−3

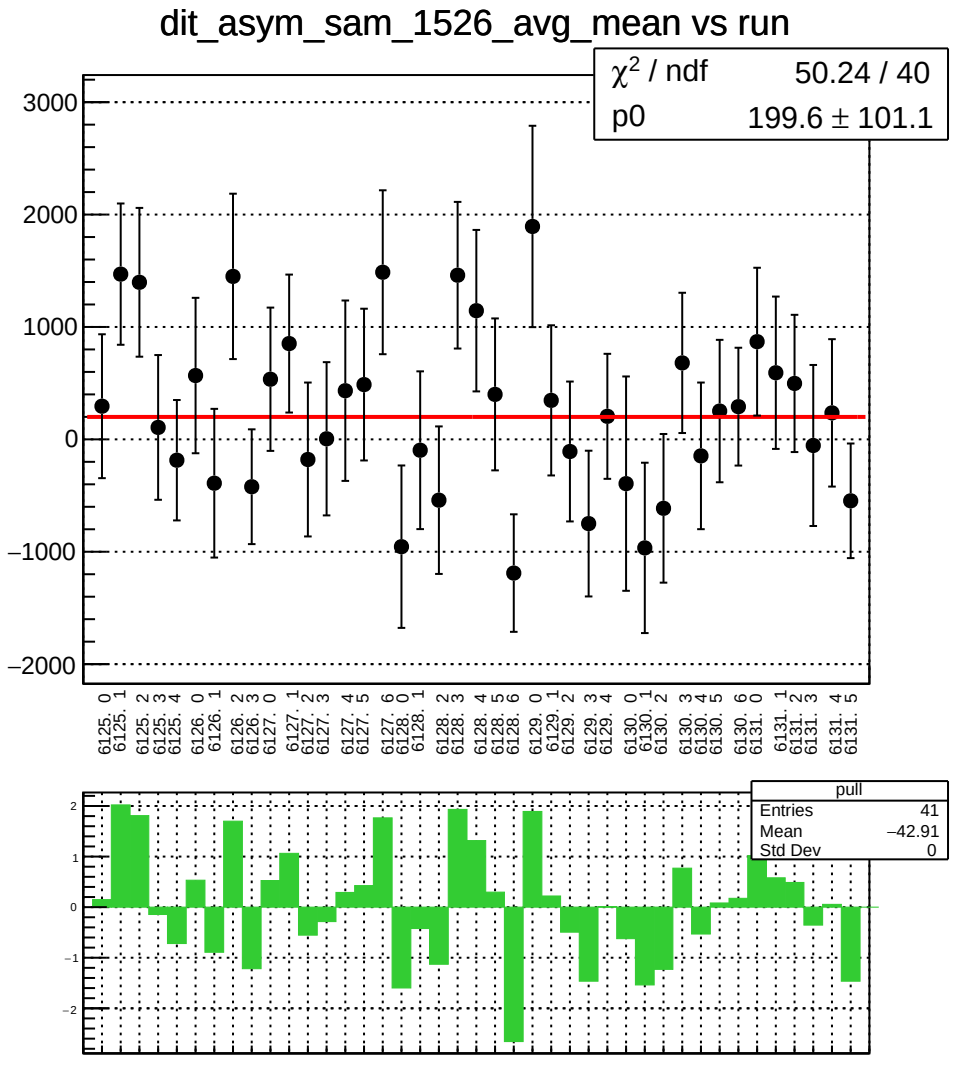

pull1D
Entries 41
Mean 0.03858
Std Dev 1.076
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

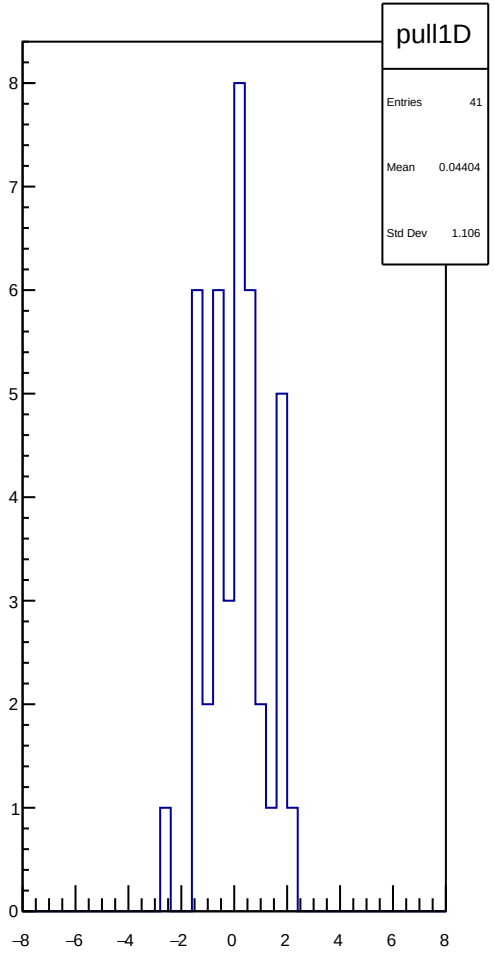

eigen_cor_asym_sam_1526_avg_rms vs run
χ2 / ndf 6294 / 40
p0 56.19 ± 0.0629
85
80
75
70
65
60
55
50
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

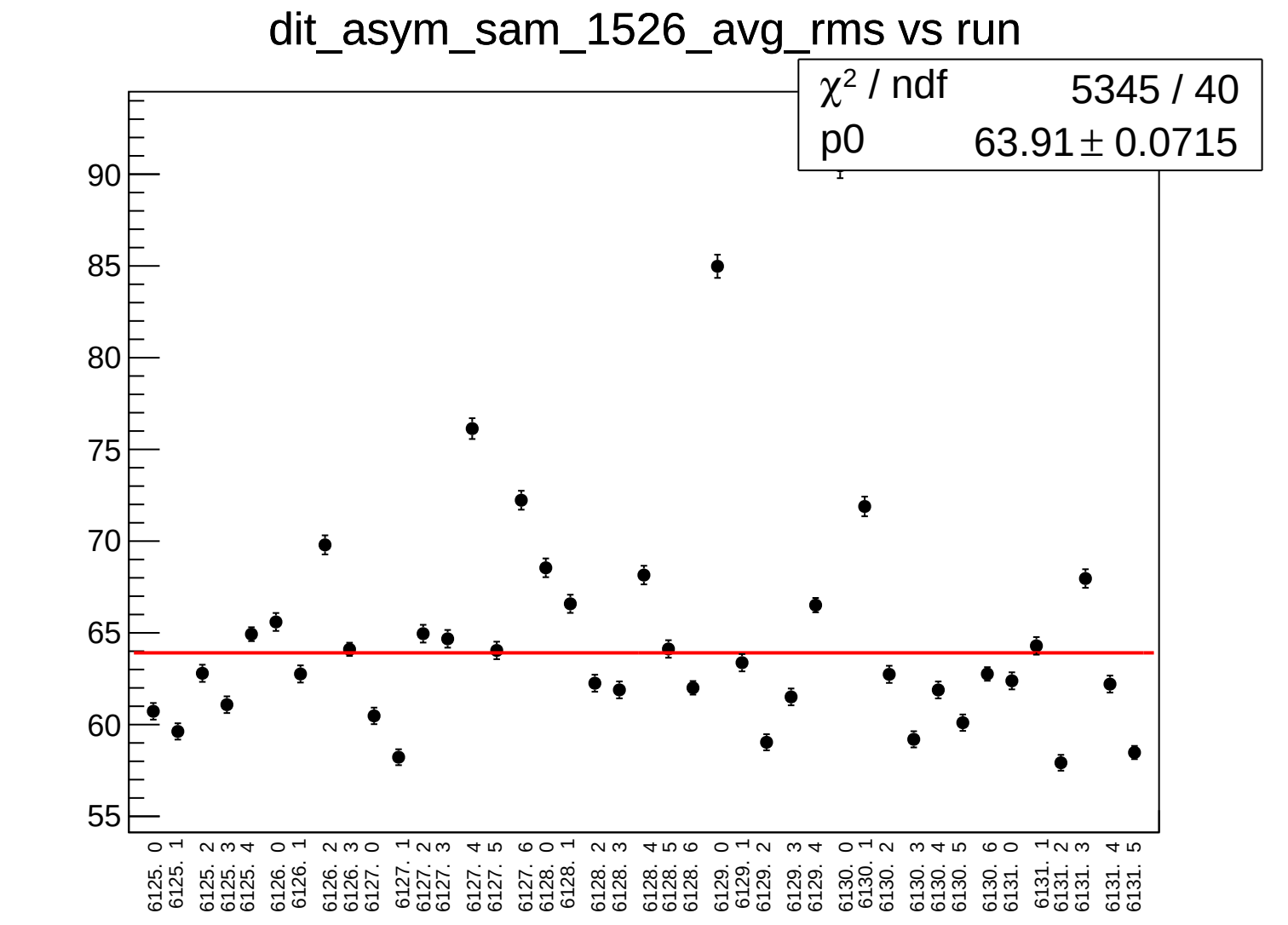

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 23.1 / 40
p0 −769.6 ± 845.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 2891
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

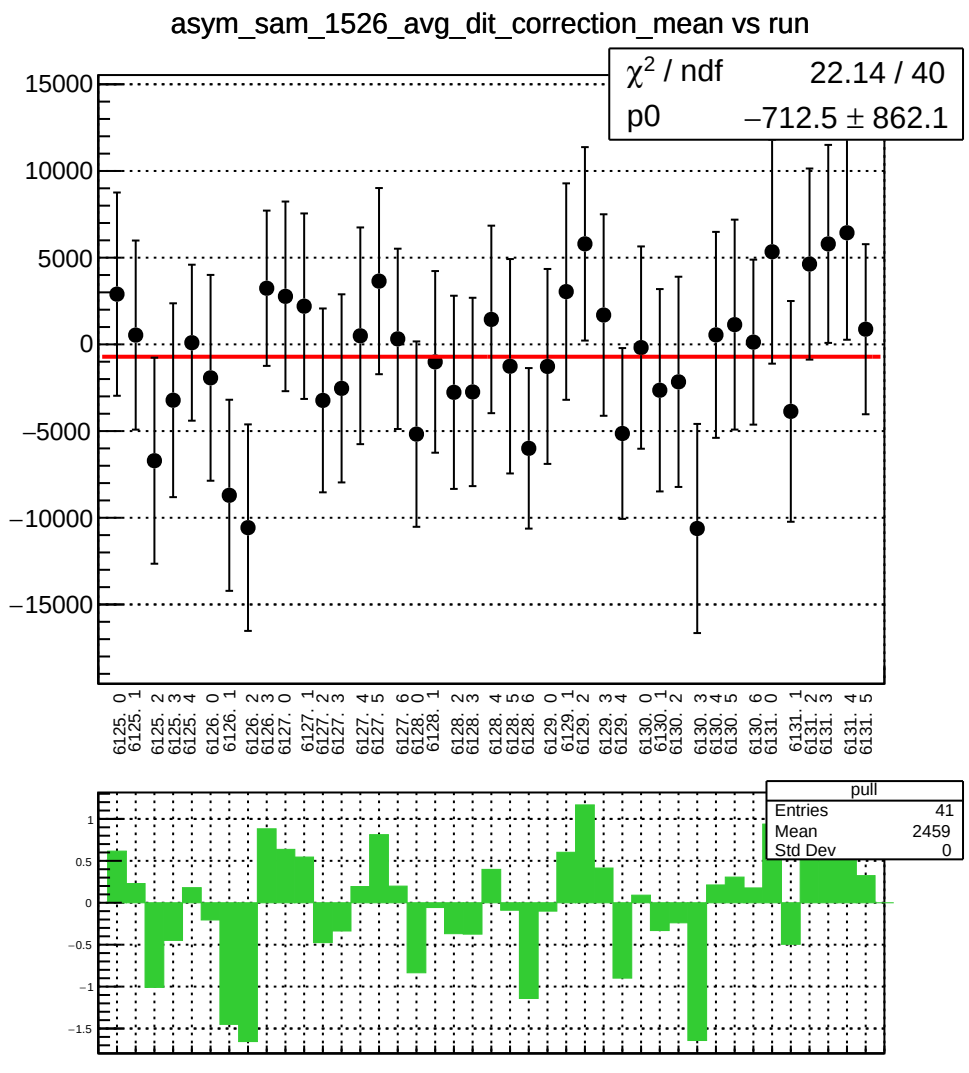

pull1D
Entries 41
Mean 0.0008405
Std Dev 0.7506
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

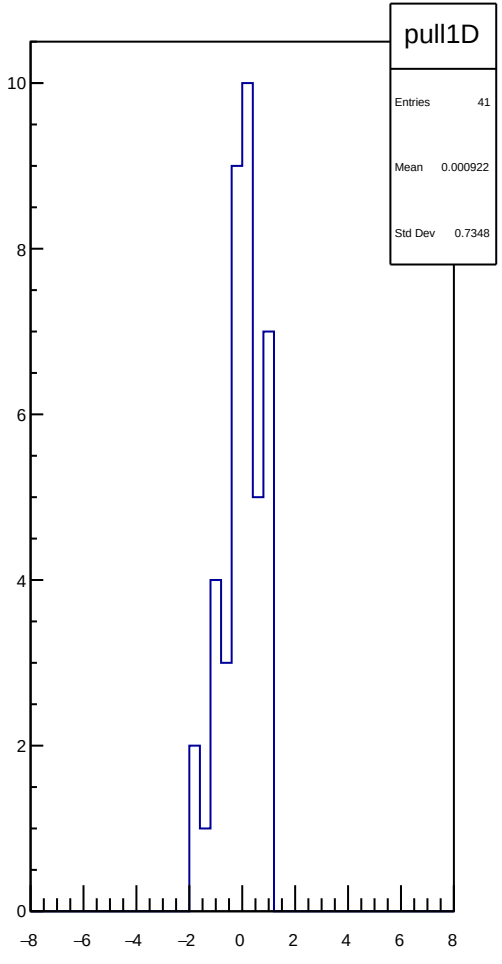

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 2956 / 40
p0 535.1 ± 0.5978
620
600
580
560
540
520
500
480
460
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

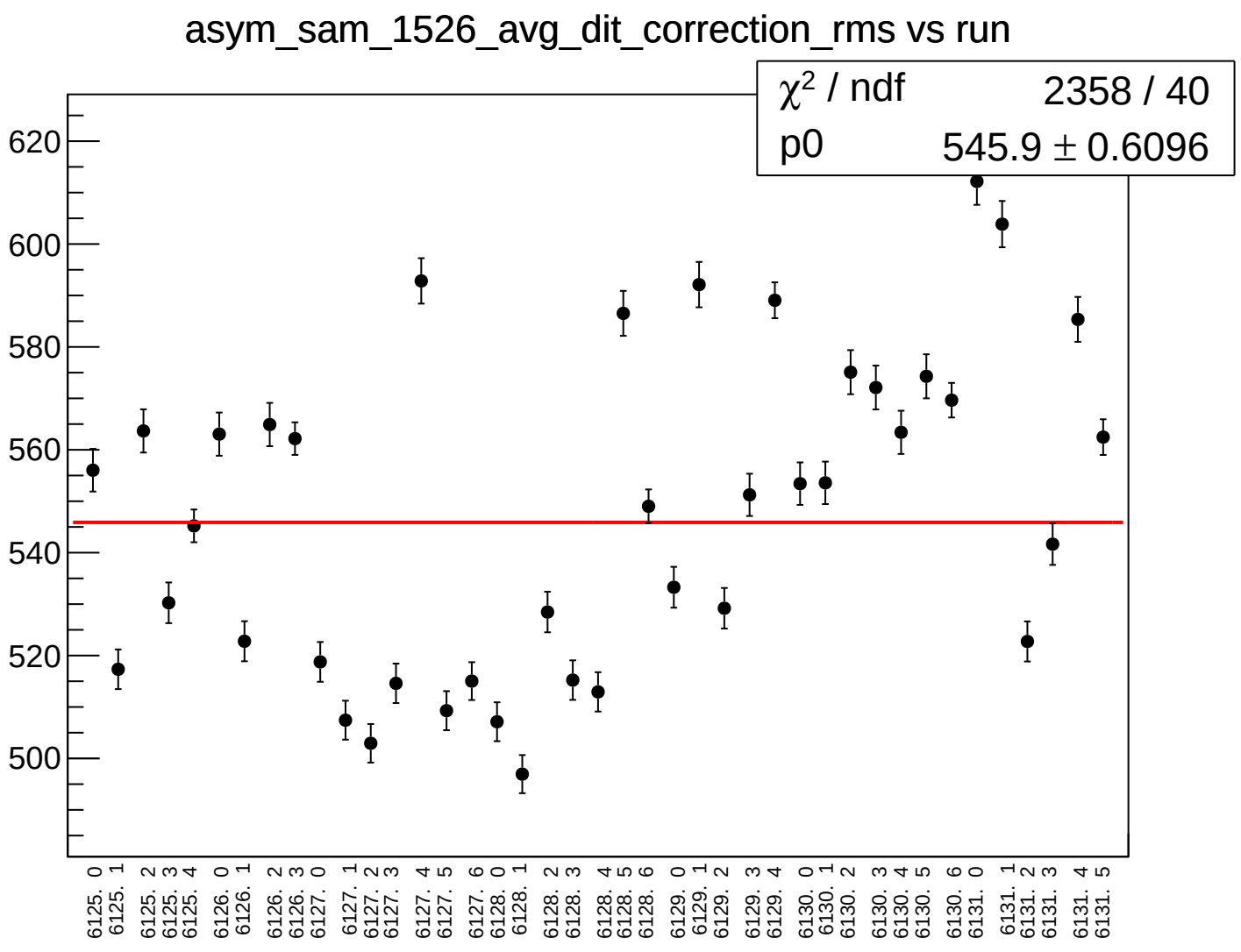

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 50.24 / 40
p0 199.6 ± 101.1
3000
2000
1000
0
−1000
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −42.91
Std Dev 0
2
1
0
−1
−2

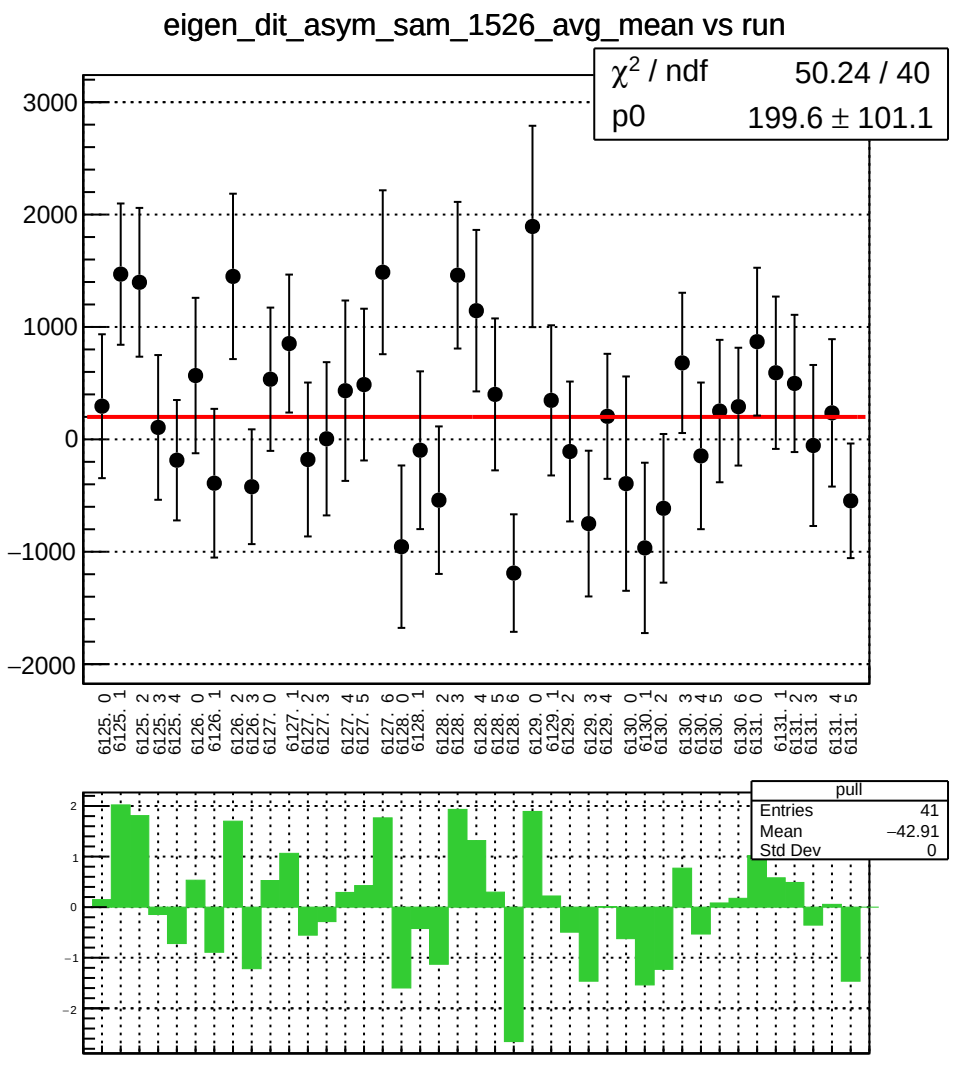

pull1D
Entries 41
Mean 0.04404
Std Dev 1.106
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

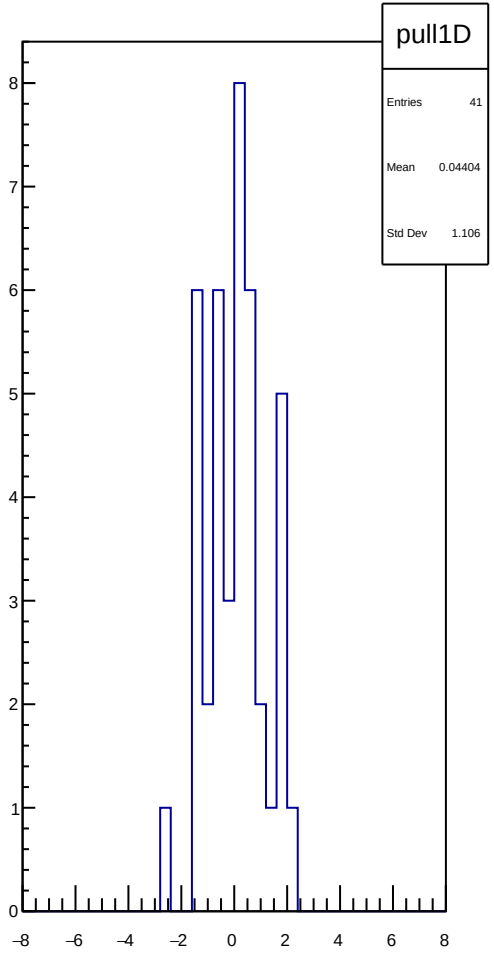

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 5345 / 40
p0 63.91 ± 0.0715
90
85
80
75
70
65
60
55
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

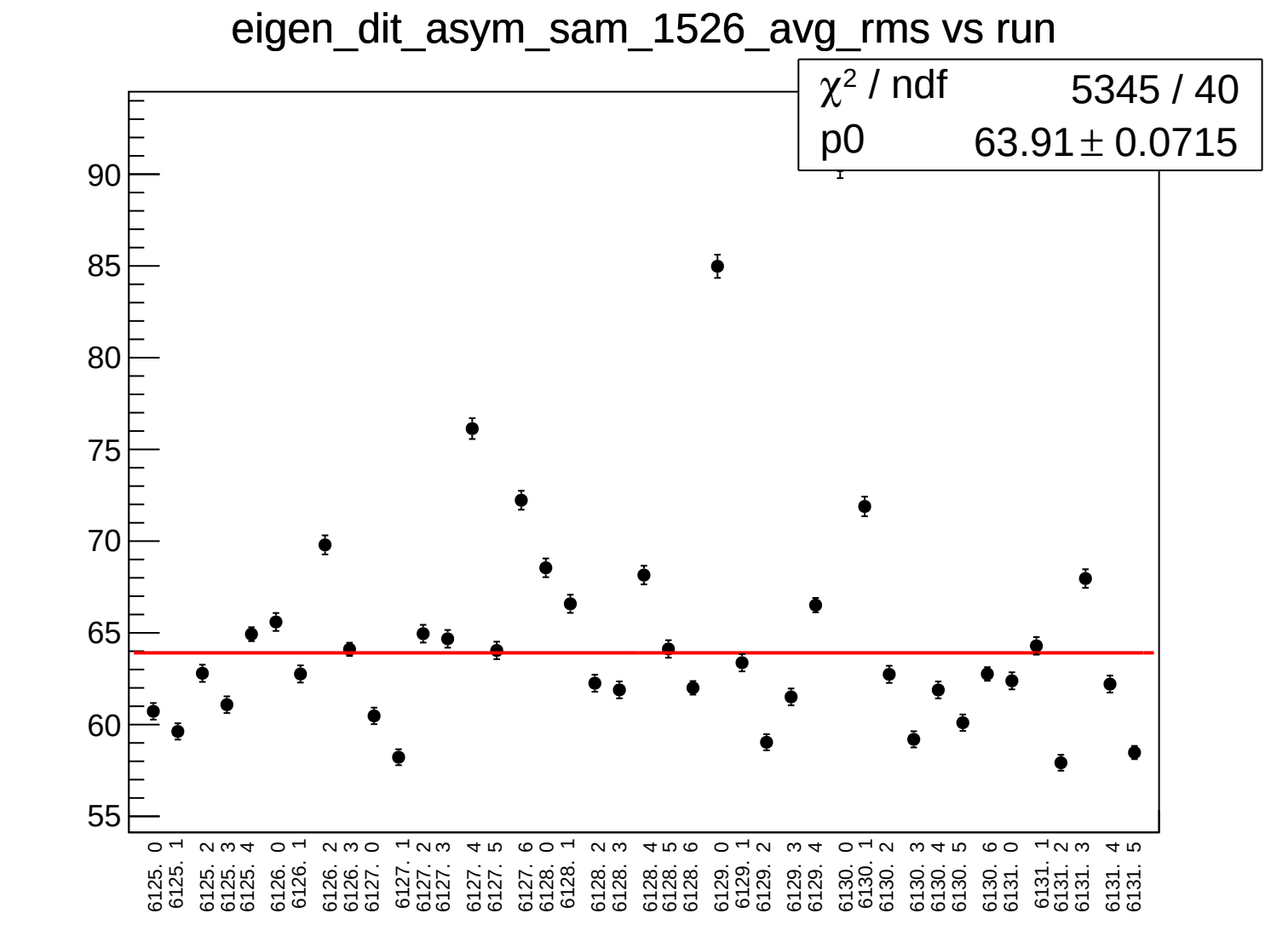

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 22.14 / 40
p0 −712.5 ± 862.1
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 2459
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

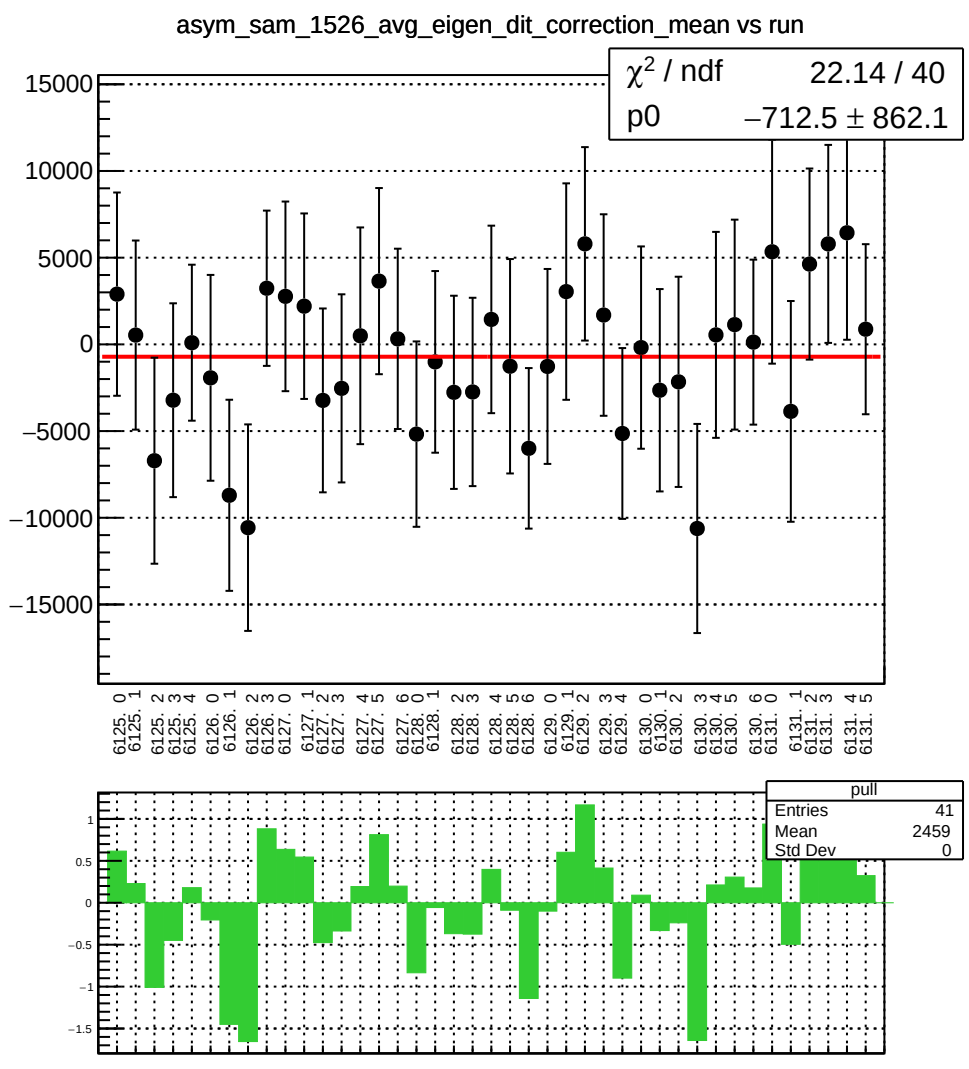

pull1D
Entries 41
Mean 0.000922
Std Dev 0.7348
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

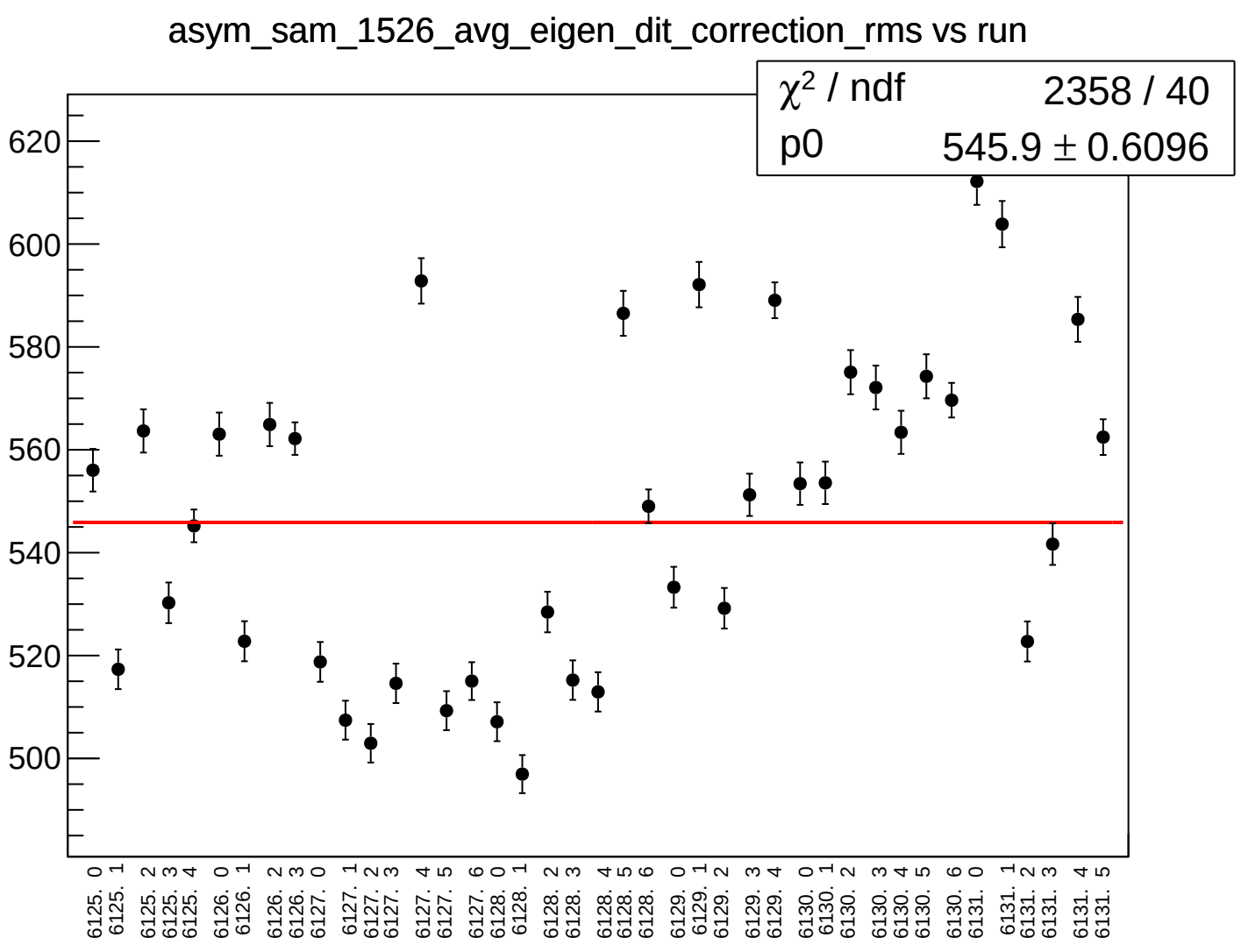

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 2358 / 40
p0 545.9 ± 0.6096
620
600
580
560
540
520
500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

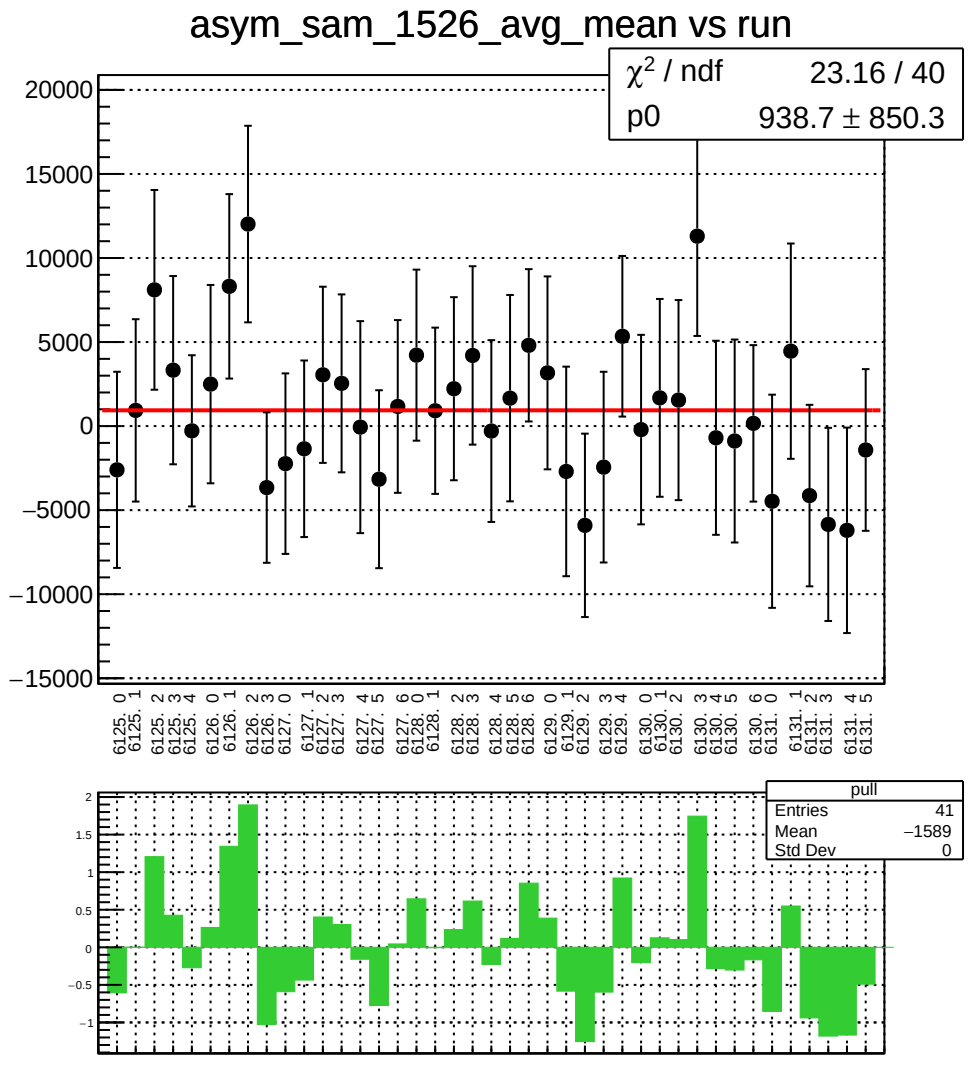

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 50.24 / 40
p0 199.6 ± 101.1
3000
2000
1000
0
−1000
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −42.91
Std Dev 0
2
1
0
−1
−2

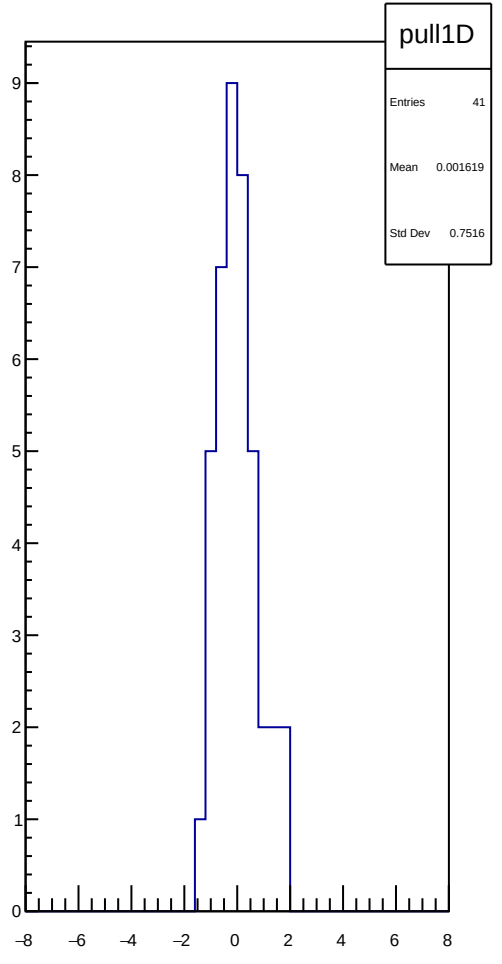

pull1D
Entries 41
Mean 0.04404
Std Dev 1.106
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

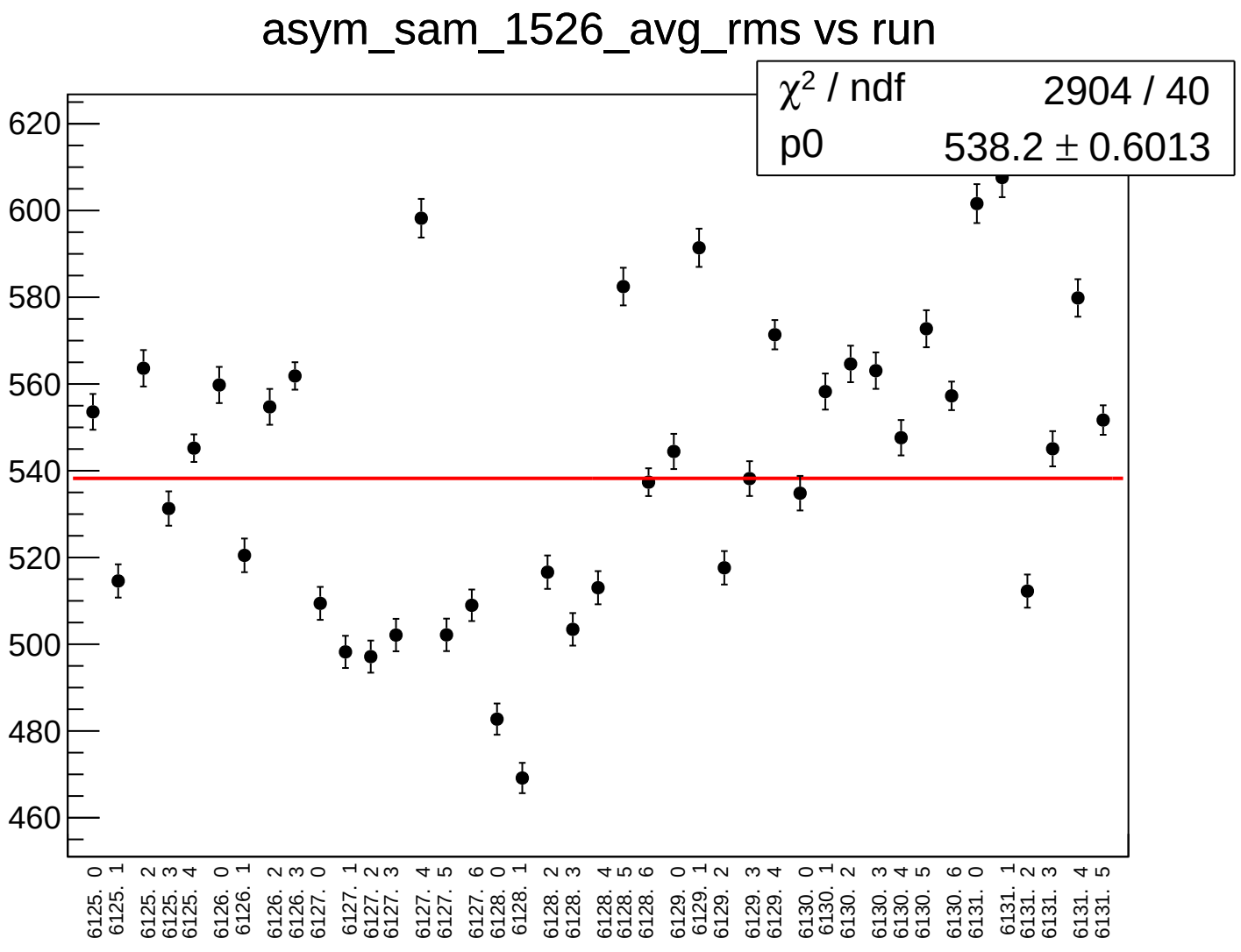

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 5345 / 40
p0 63.91 ± 0.0715
90
85
80
75
70
65
60
55
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

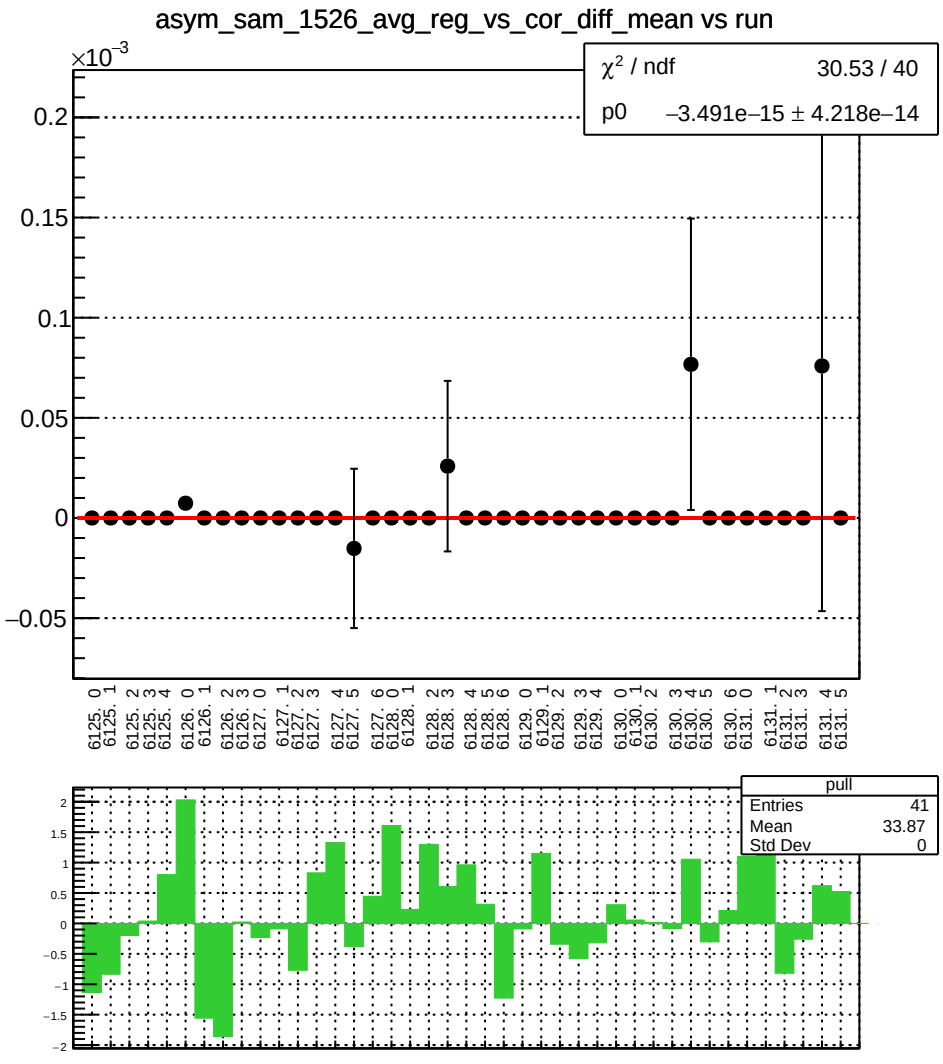

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 22.14 / 40
p0 −712.5 ± 862.1
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 2459
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.0009219
Std Dev 0.7348
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

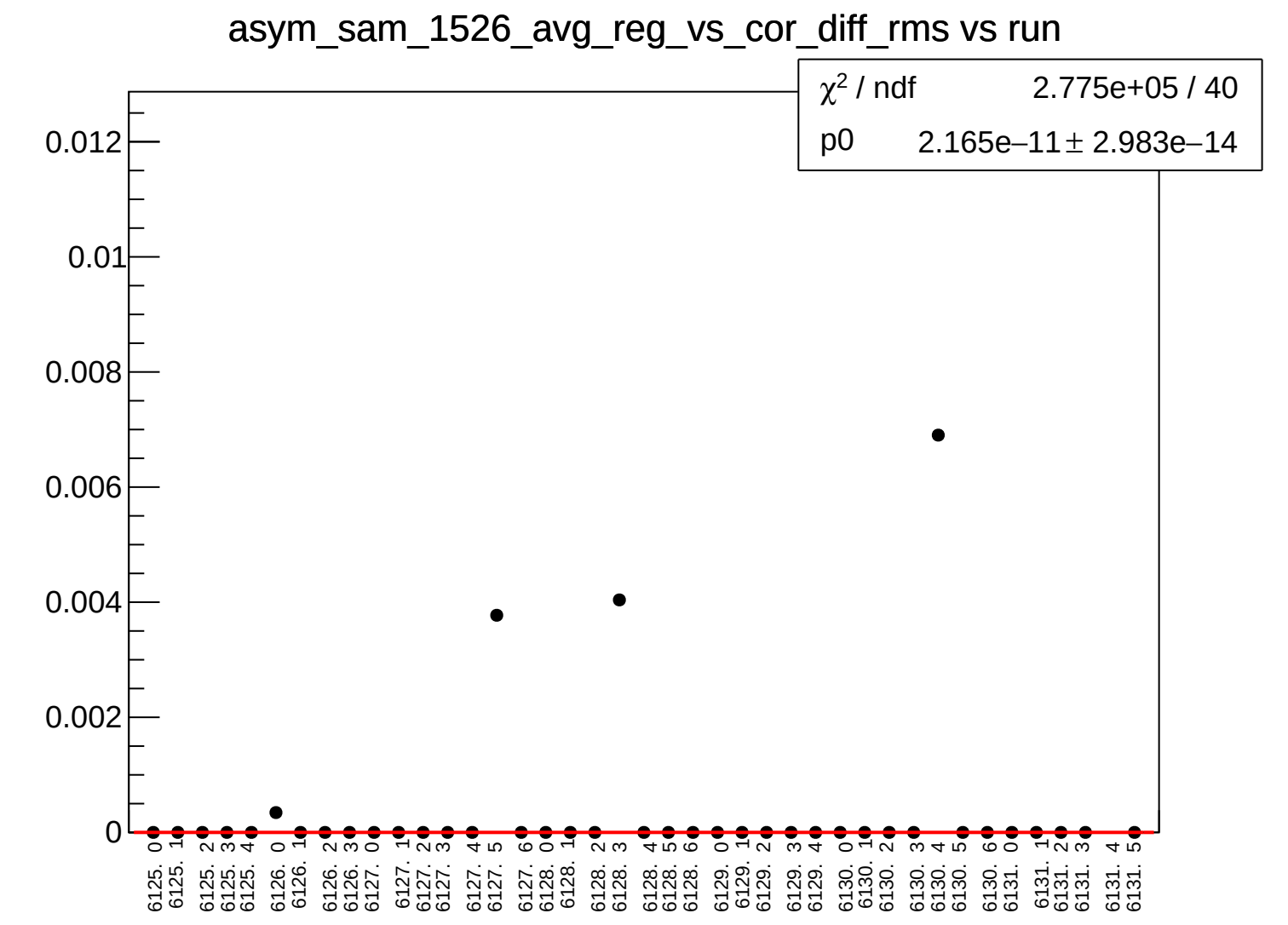

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 2358 / 40
p0 545.9 ± 0.6096
620
600
580
560
540
520
500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

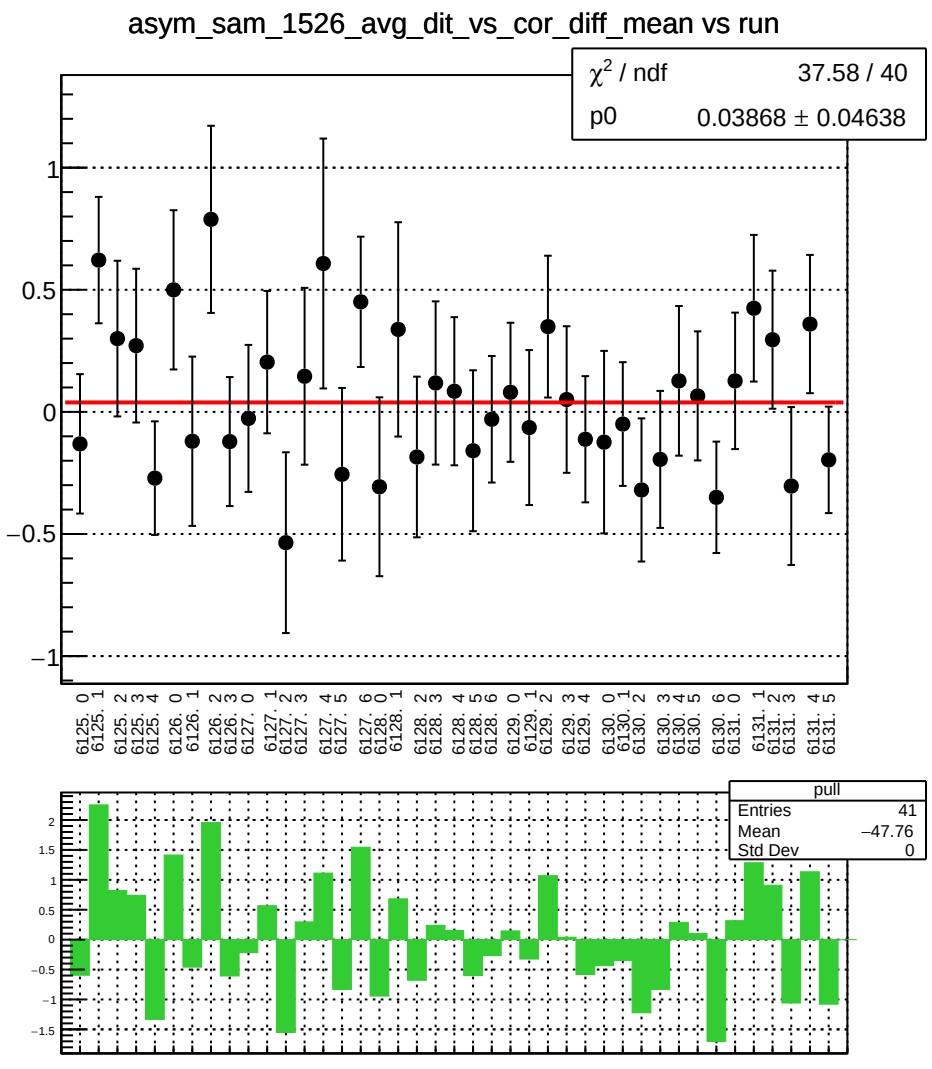

asym_sam_1526_avg_mean vs run
χ² / ndf 23.16 / 40
p0 938.7 ± 850.3
20000
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1589
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

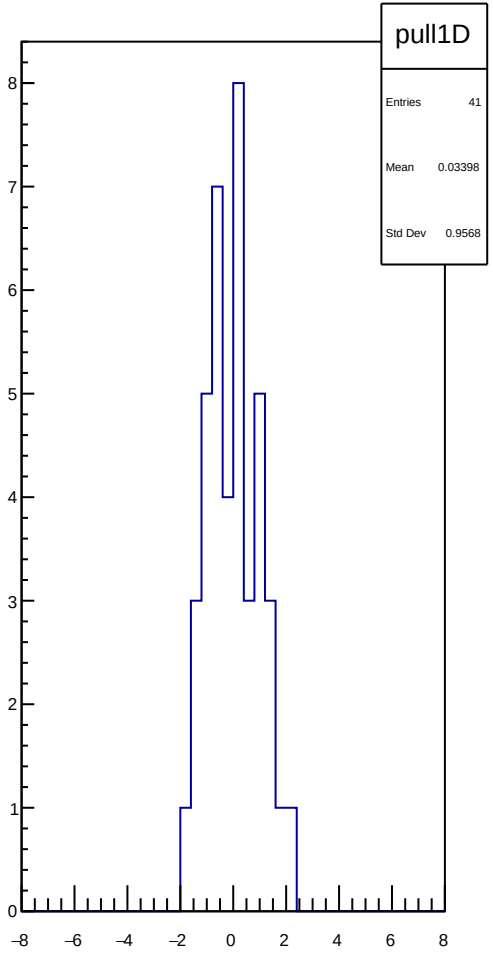

pull1D
Entries 41
Mean 0.001619
Std Dev 0.7516
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

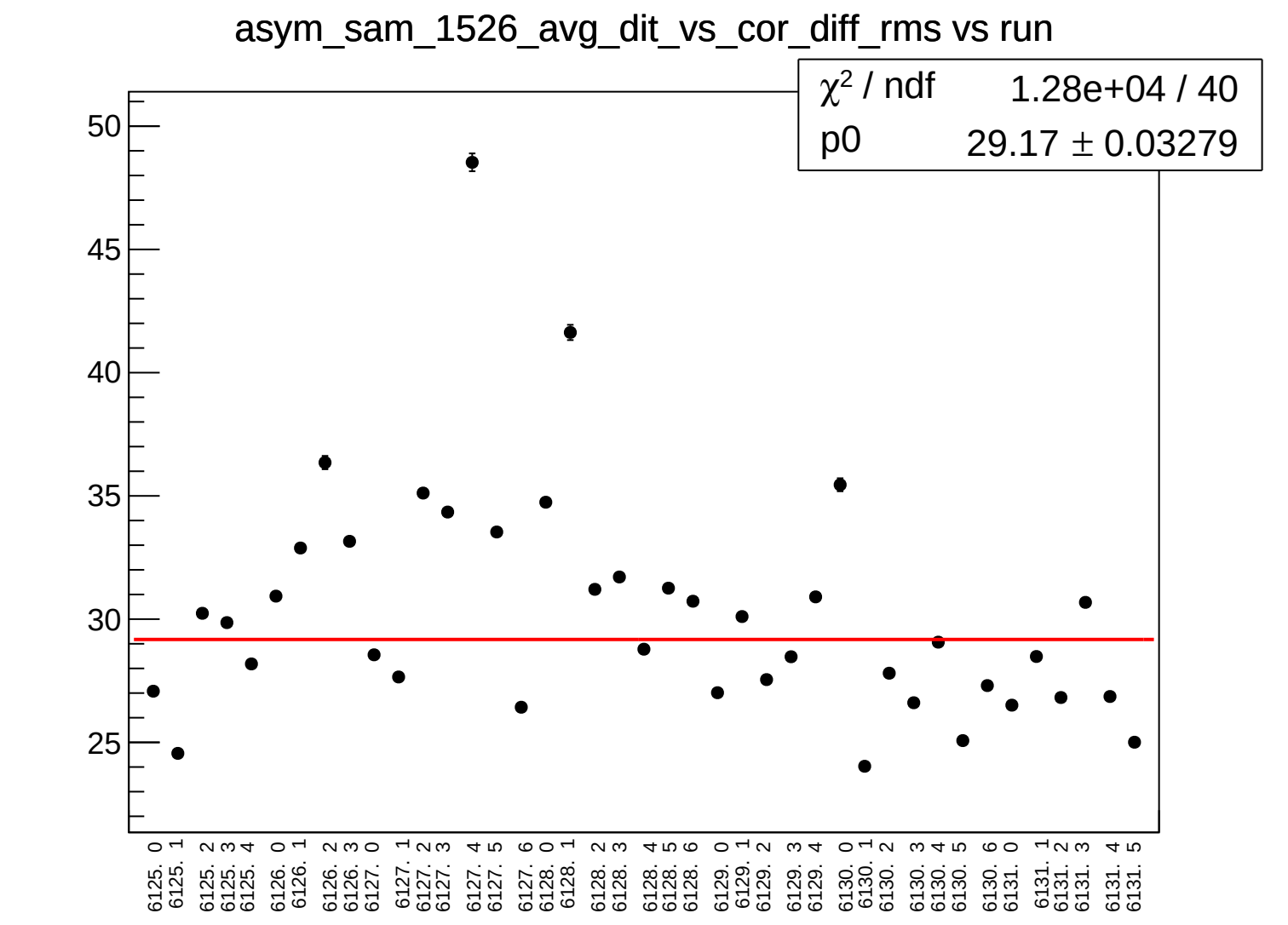

asym_sam_1526_avg_rms vs run
χ² / ndf 2904 / 40
p0 538.2 ± 0.6013
620
600
580
560
540
520
500
480
460
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

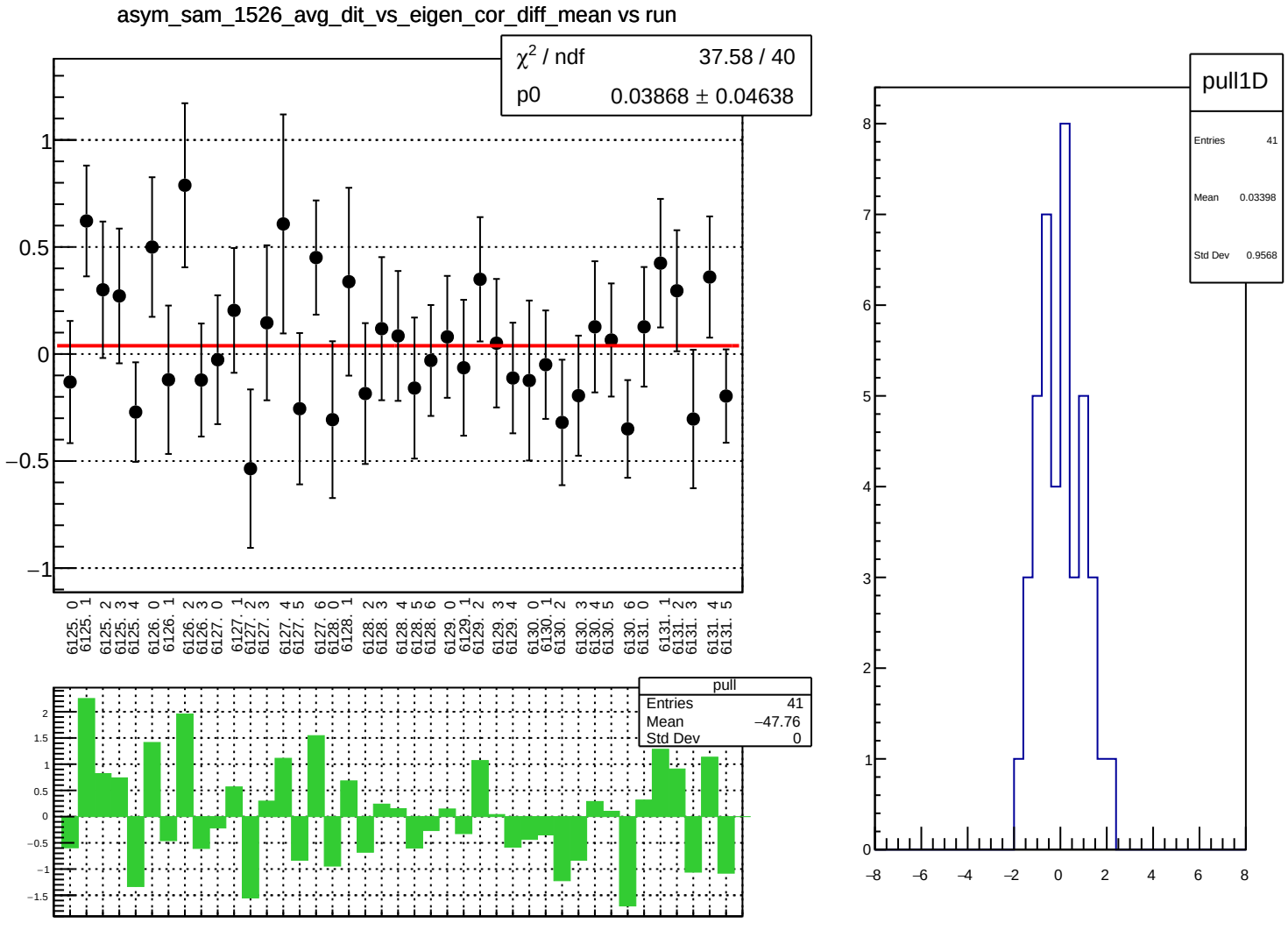

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 30.53 / 40
p0 −3.491e−15 ± 4.218e−14
pull
Entries 41
Mean 33.87
Std Dev 0
pull1D
Entries 41
Mean 0.1373
Std Dev 0.8519

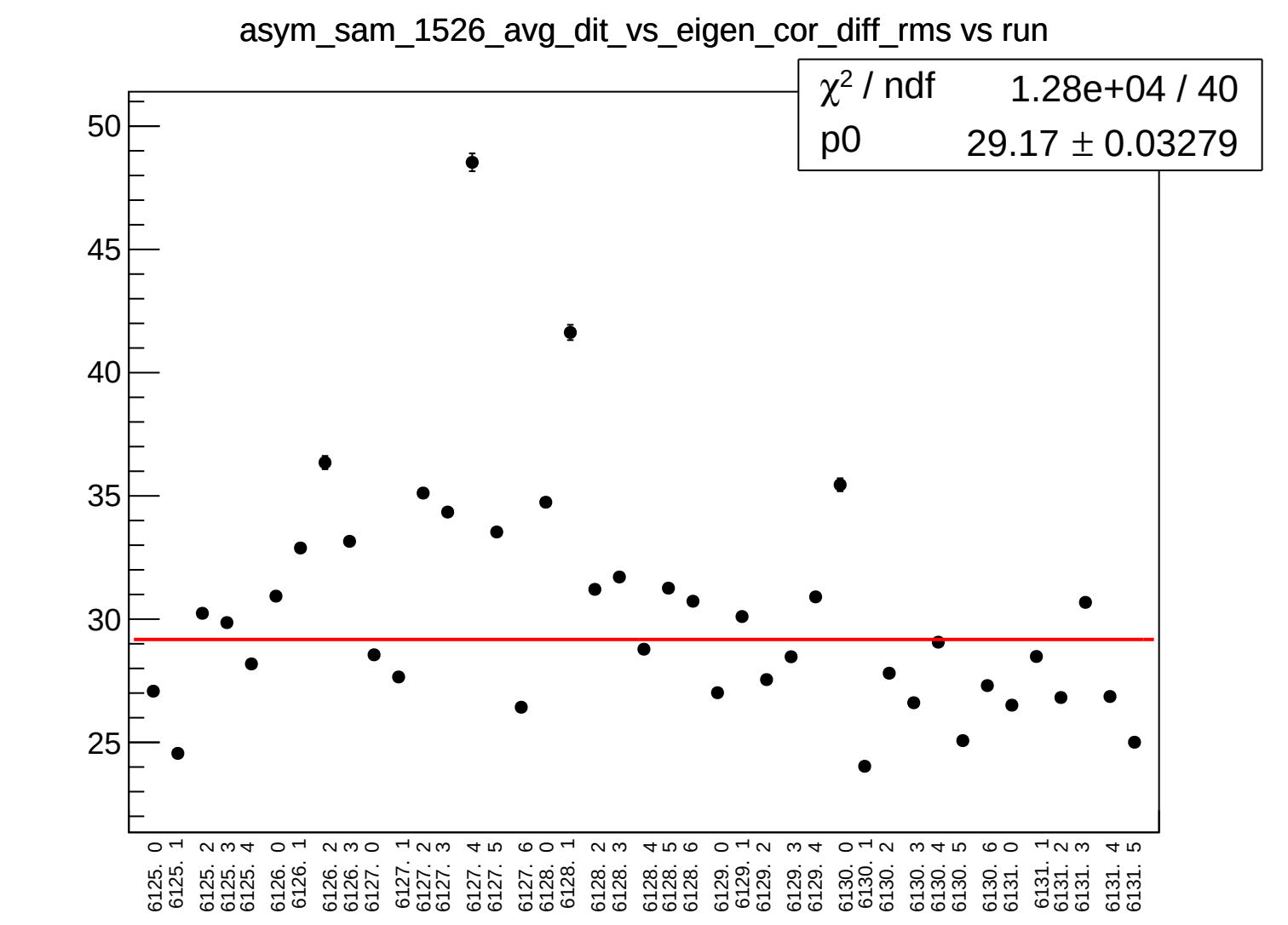

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.775e+05 / 40
p0 2.165e−11 ± 2.983e−14
0.012
0.01
0.008
0.006
0.004
0.002
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

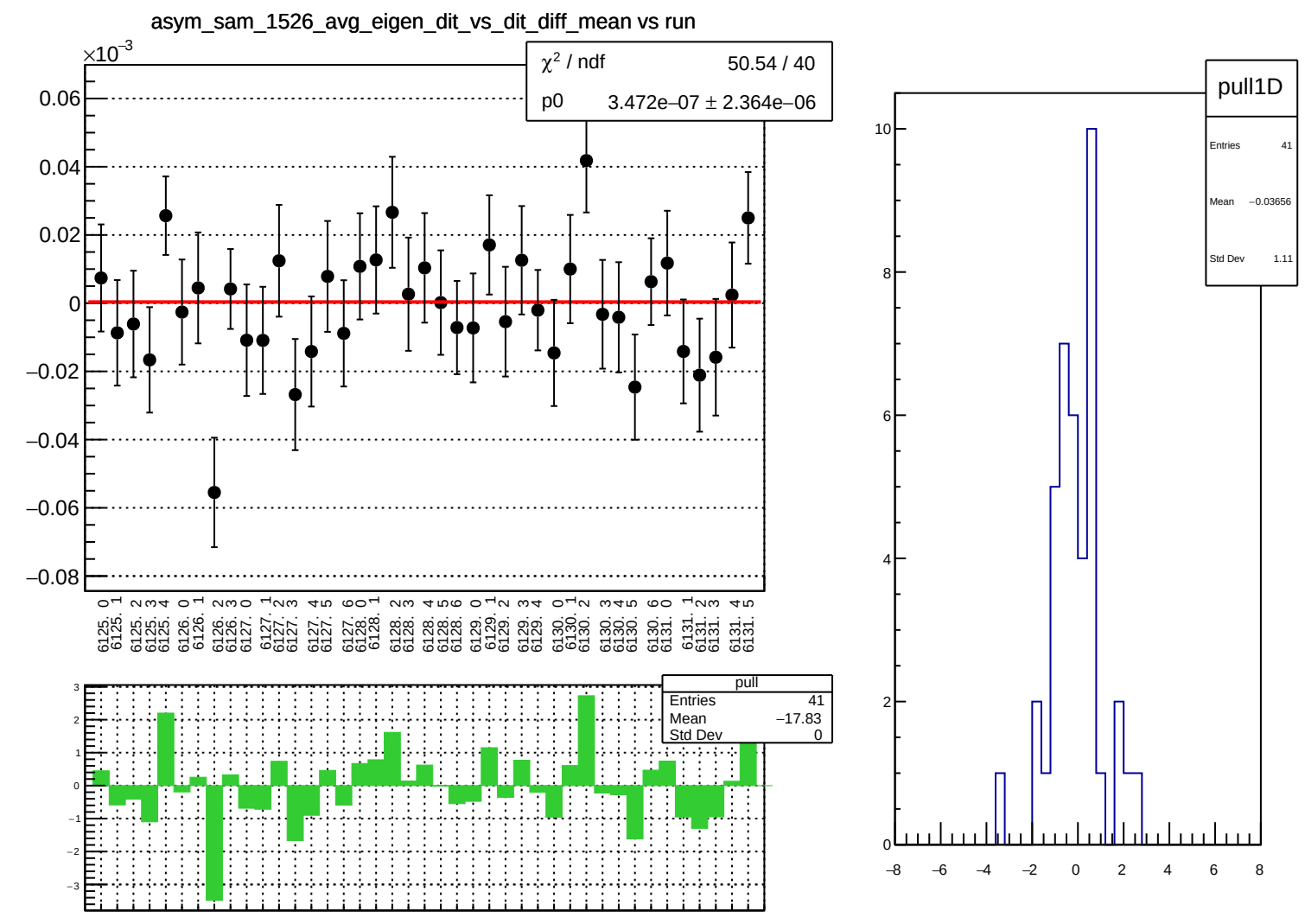

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 37.58 / 40
p0 0.03868 ± 0.04638
pull
Entries 41
Mean −47.76
Std Dev 0

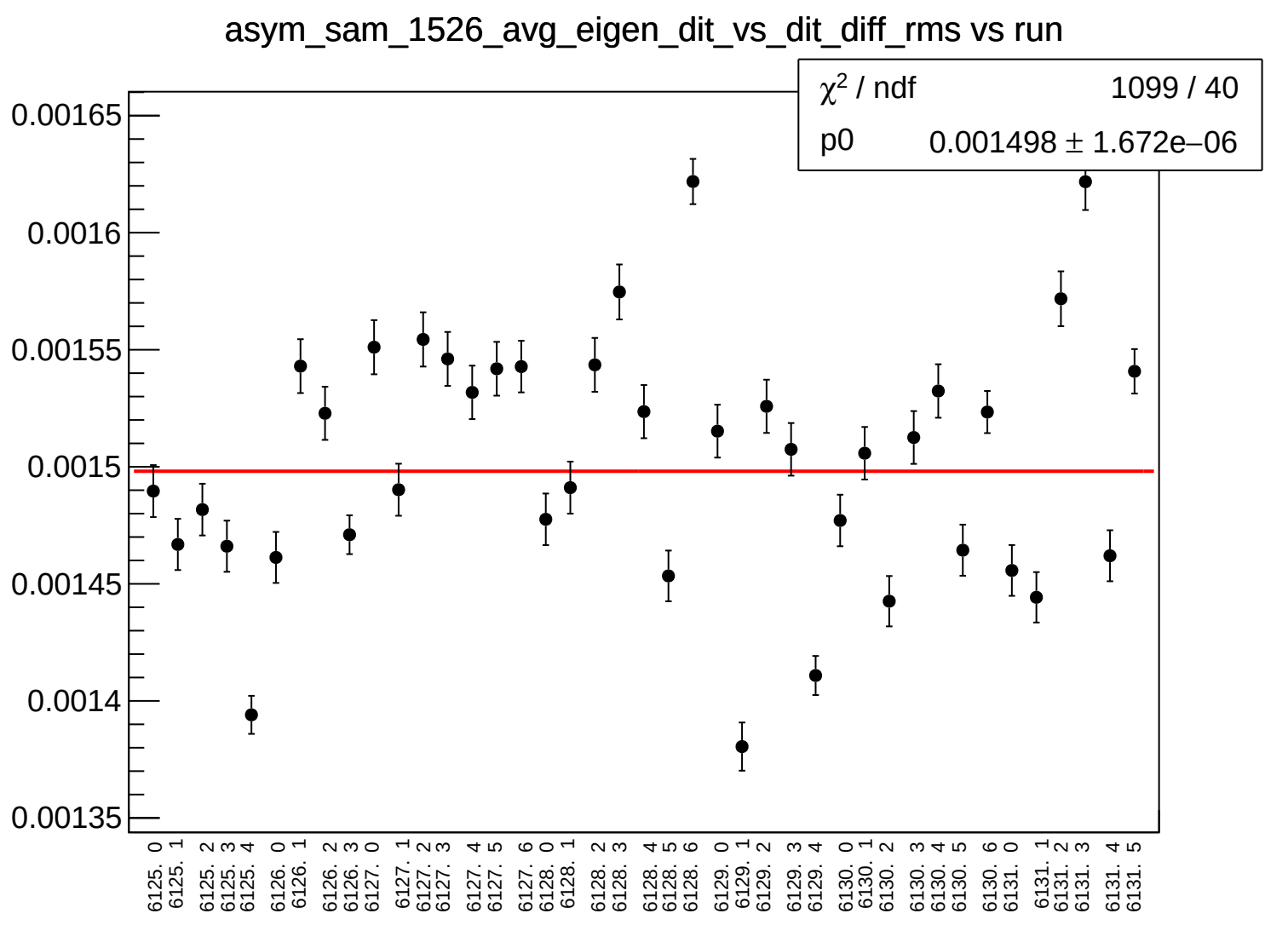

pull1D
Entries 41
Mean 0.03398
Std Dev 0.9568

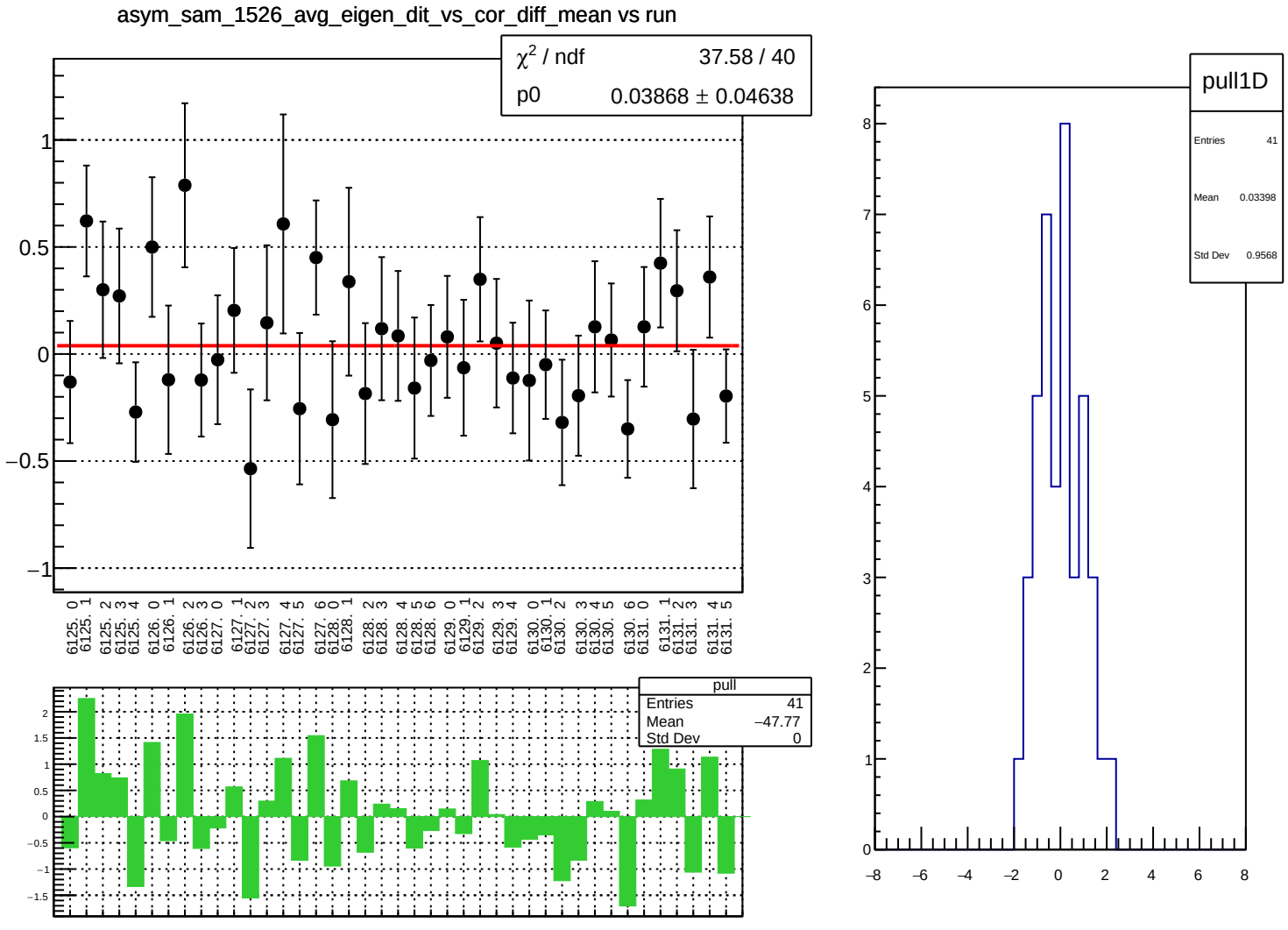

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.28e+04 / 40
p0 29.17 ± 0.03279
50
45
40
35
30
25
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

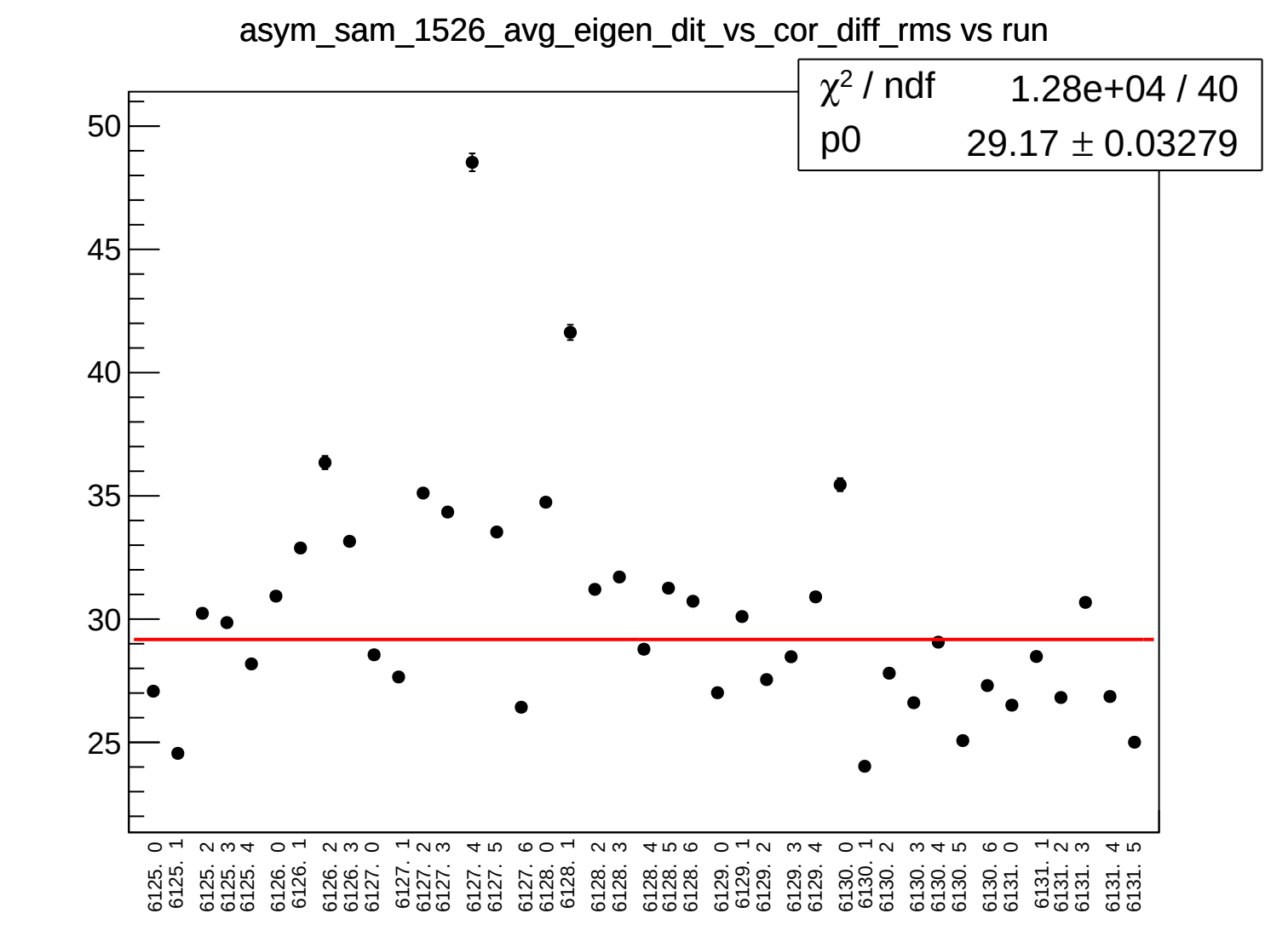

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.58 / 40
p0 0.03868 ± 0.04638
pull
Entries 41
Mean −47.76
Std Dev 0
pull1D
Entries 41
Mean 0.03398
Std Dev 0.9568

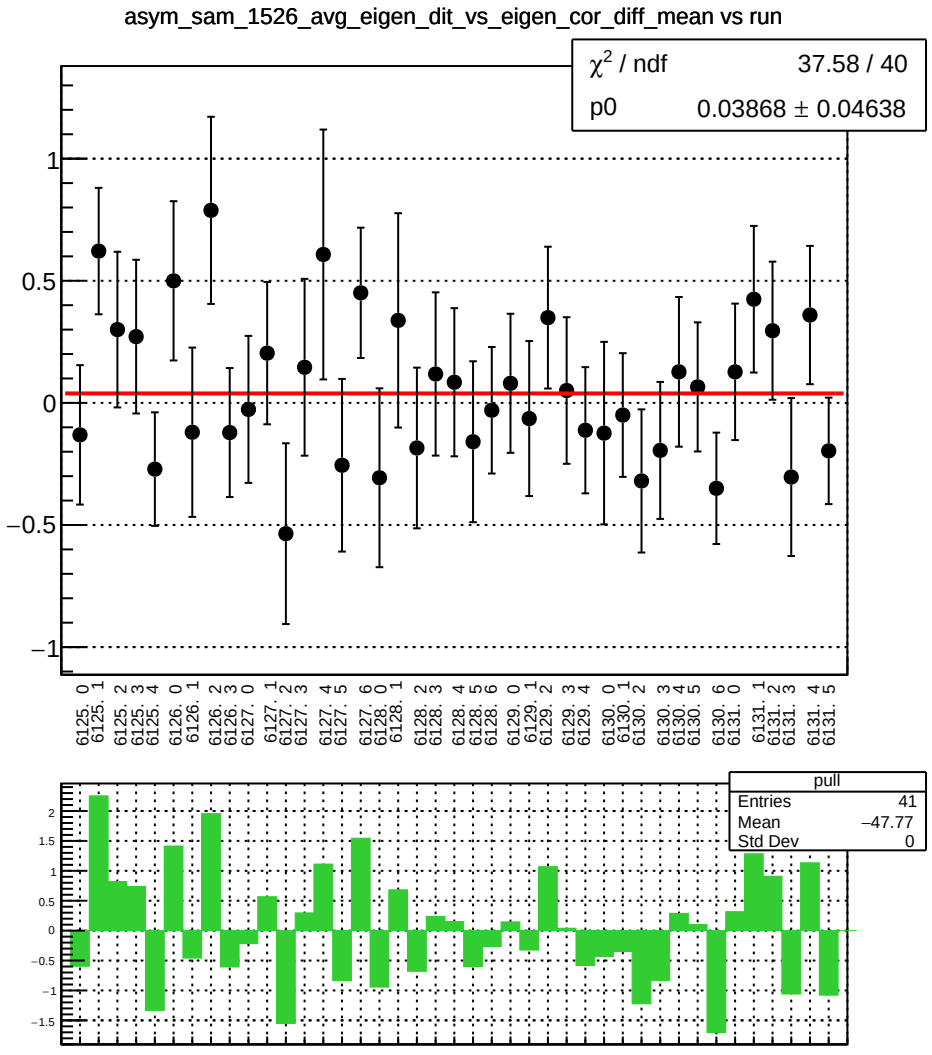

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.28e+04 / 40
p0 29.17 ± 0.03279
50
45
40
35
30
25
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

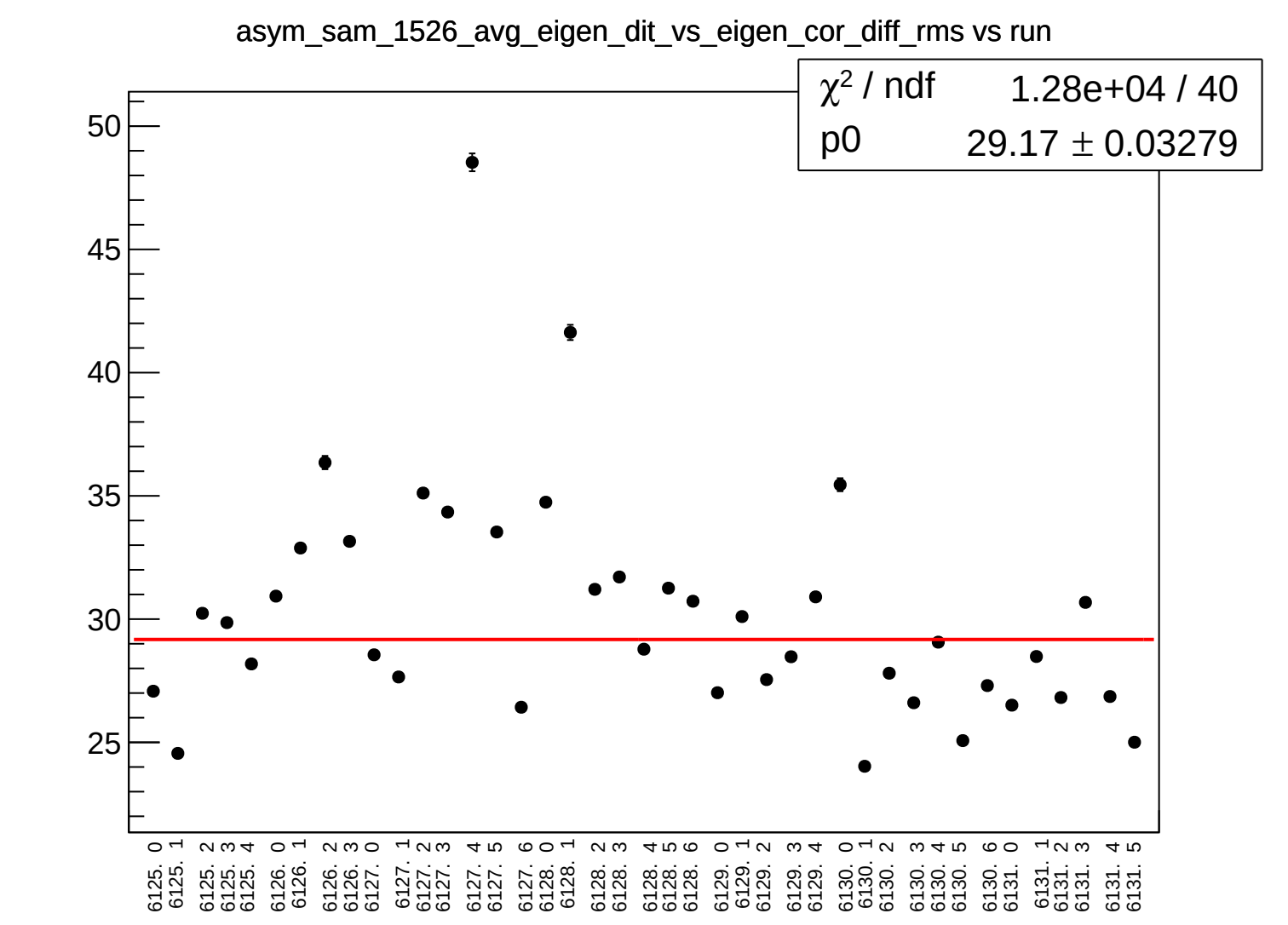

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 50.54 / 40
p0 3.472e−07 ± 2.364e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −17.83
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean −0.03656
Std Dev 1.11
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

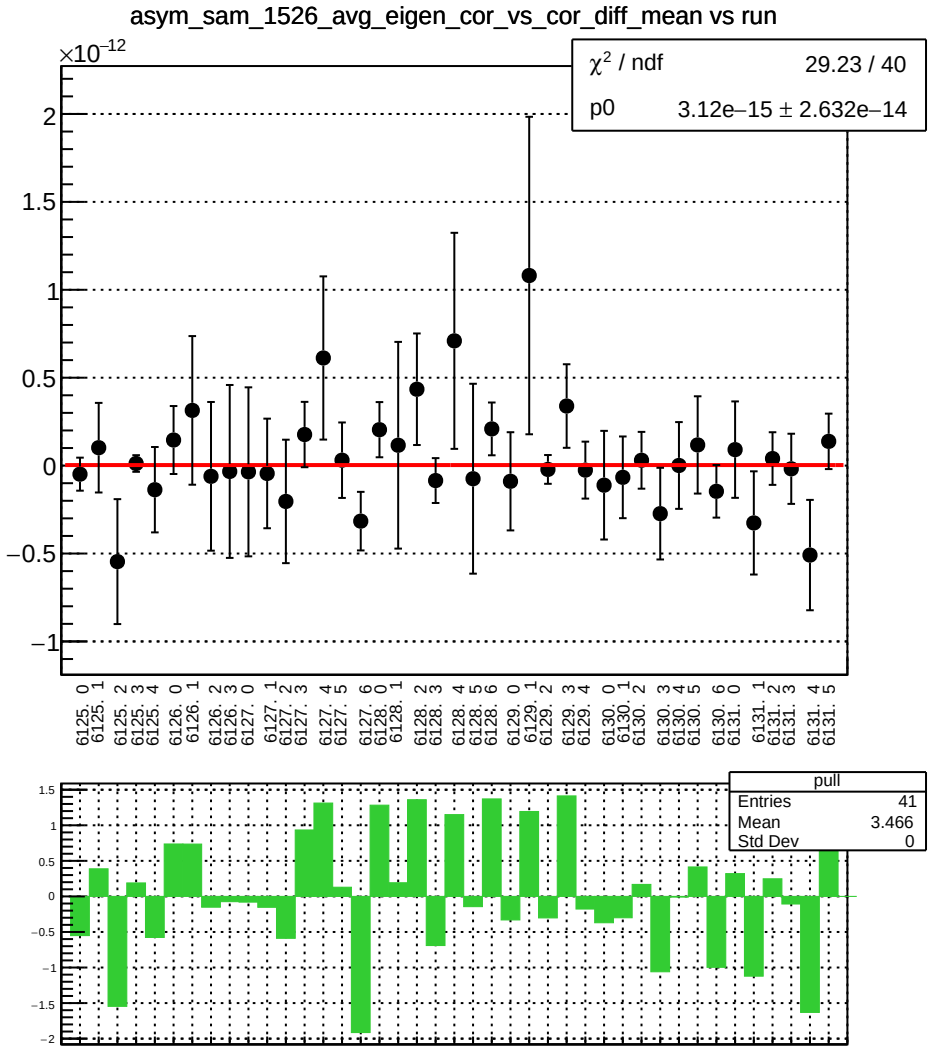

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1099 / 40
p0 0.001498 ± 1.672e−06
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

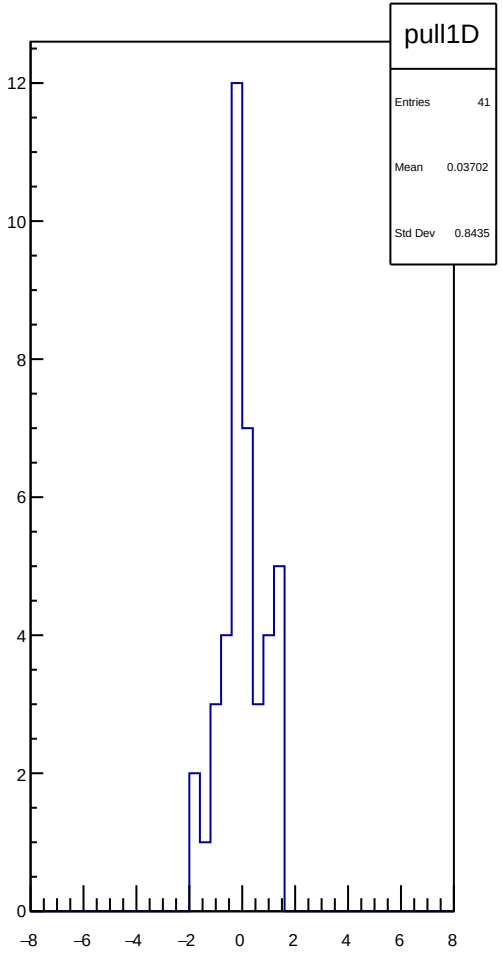

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.58 / 40
p0 0.03868 ± 0.04638
pull
Entries 41
Mean −47.77
Std Dev 0
pull1D
Entries 41
Mean 0.03398
Std Dev 0.9568

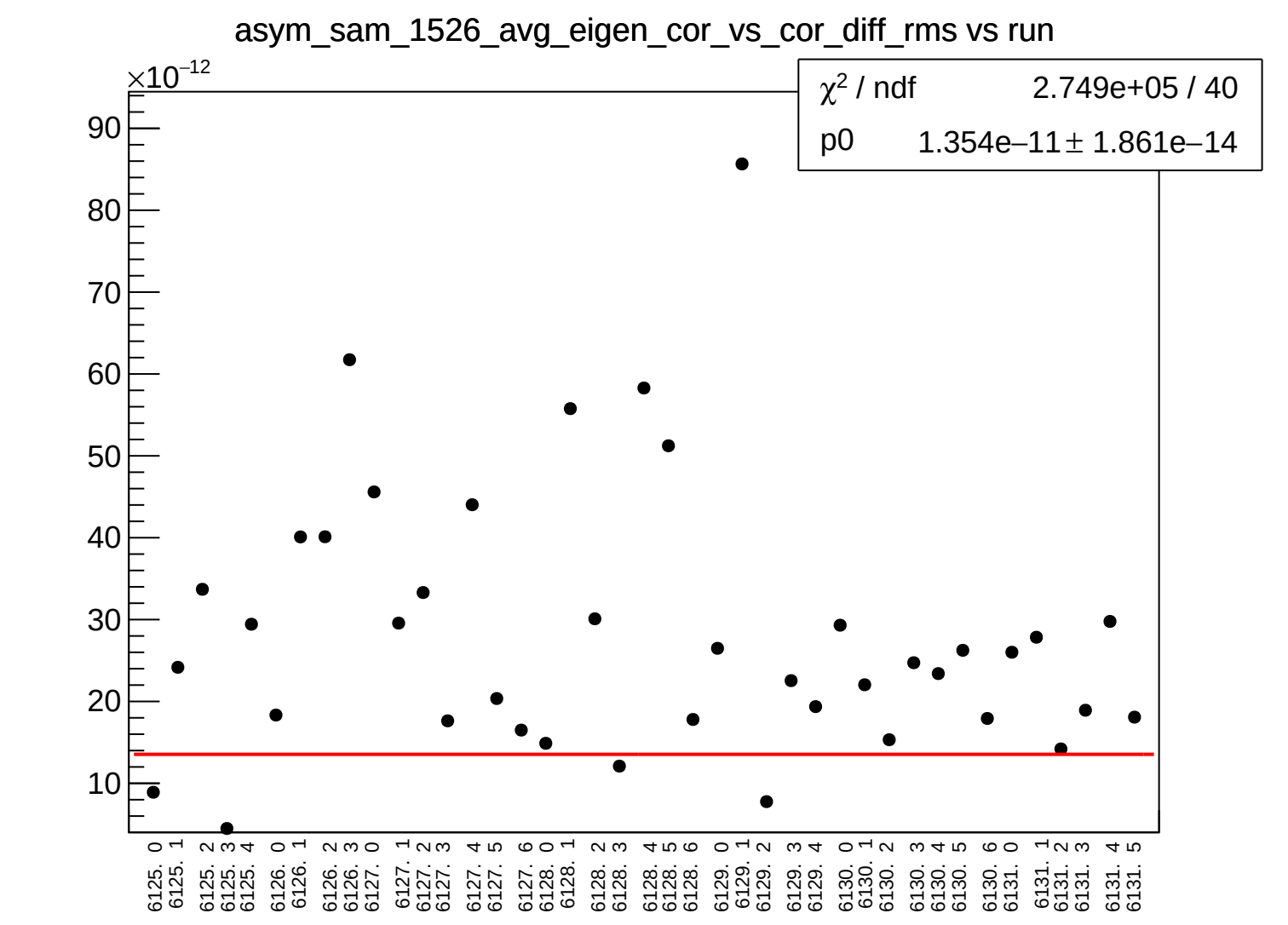

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.28e+04 / 40
p0 29.17 ± 0.03279
50
45
40
35
30
25
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

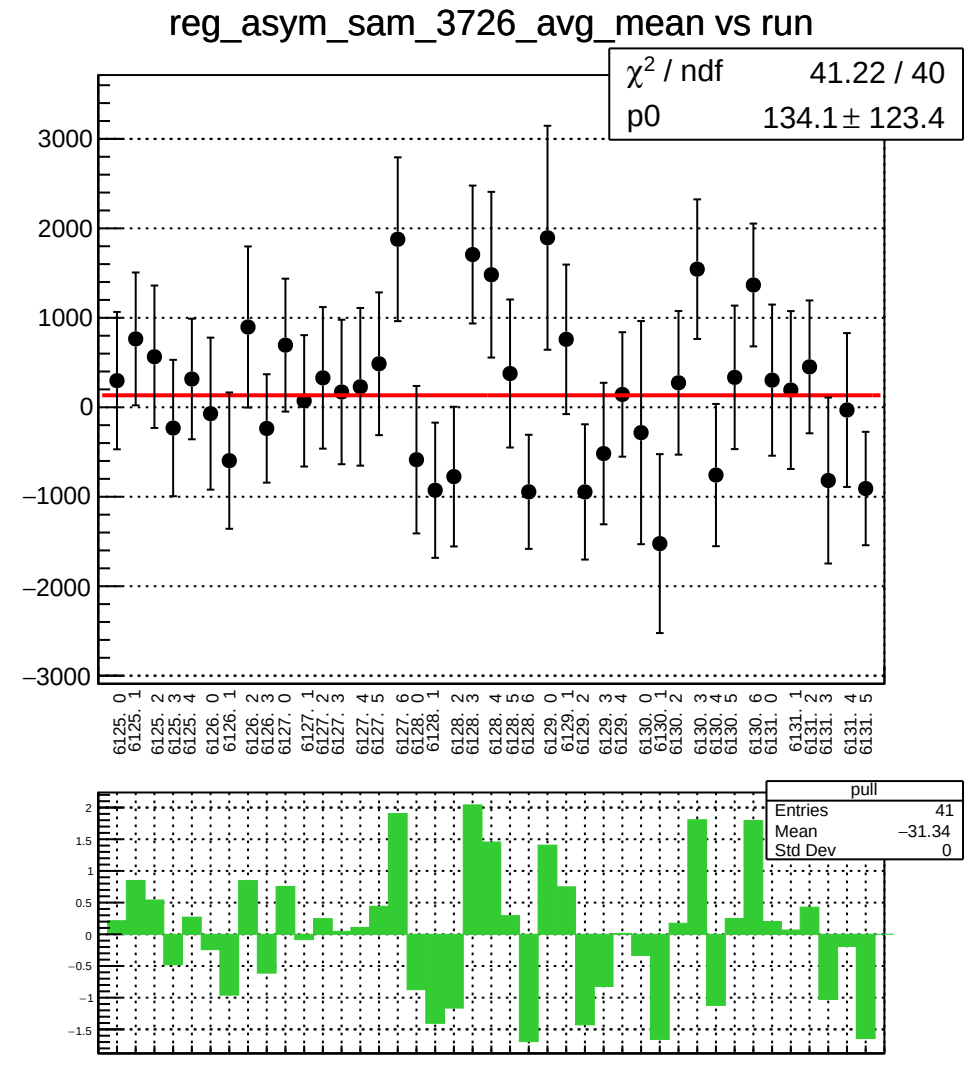

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.58 / 40
p0 0.03868 ± 0.04638
pull
Entries 41
Mean −47.77
Std Dev 0
pull1D
Entries 41
Mean 0.03398
Std Dev 0.9568

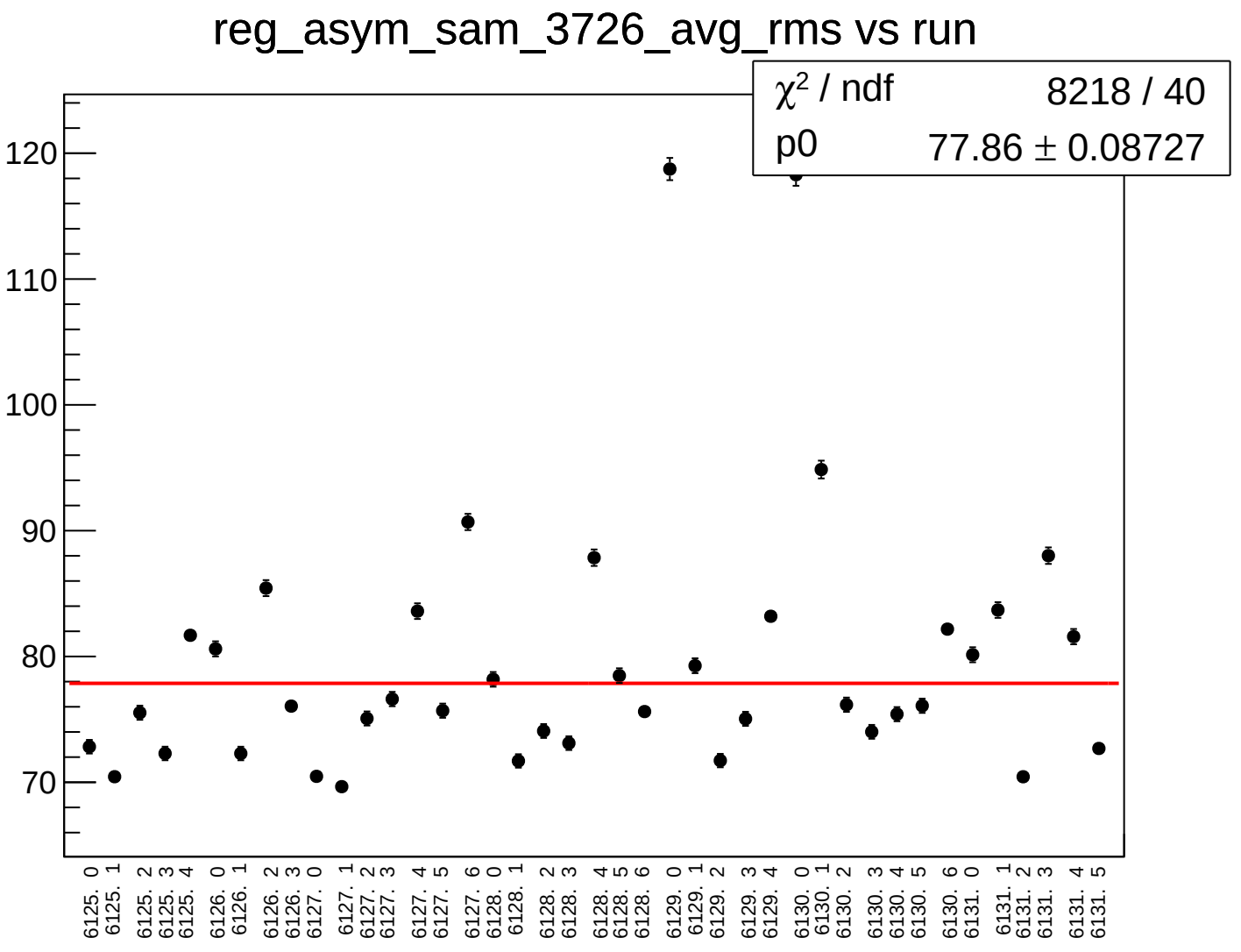

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.28e+04 / 40
p0 29.17 ± 0.03279
50
45
40
35
30
25
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

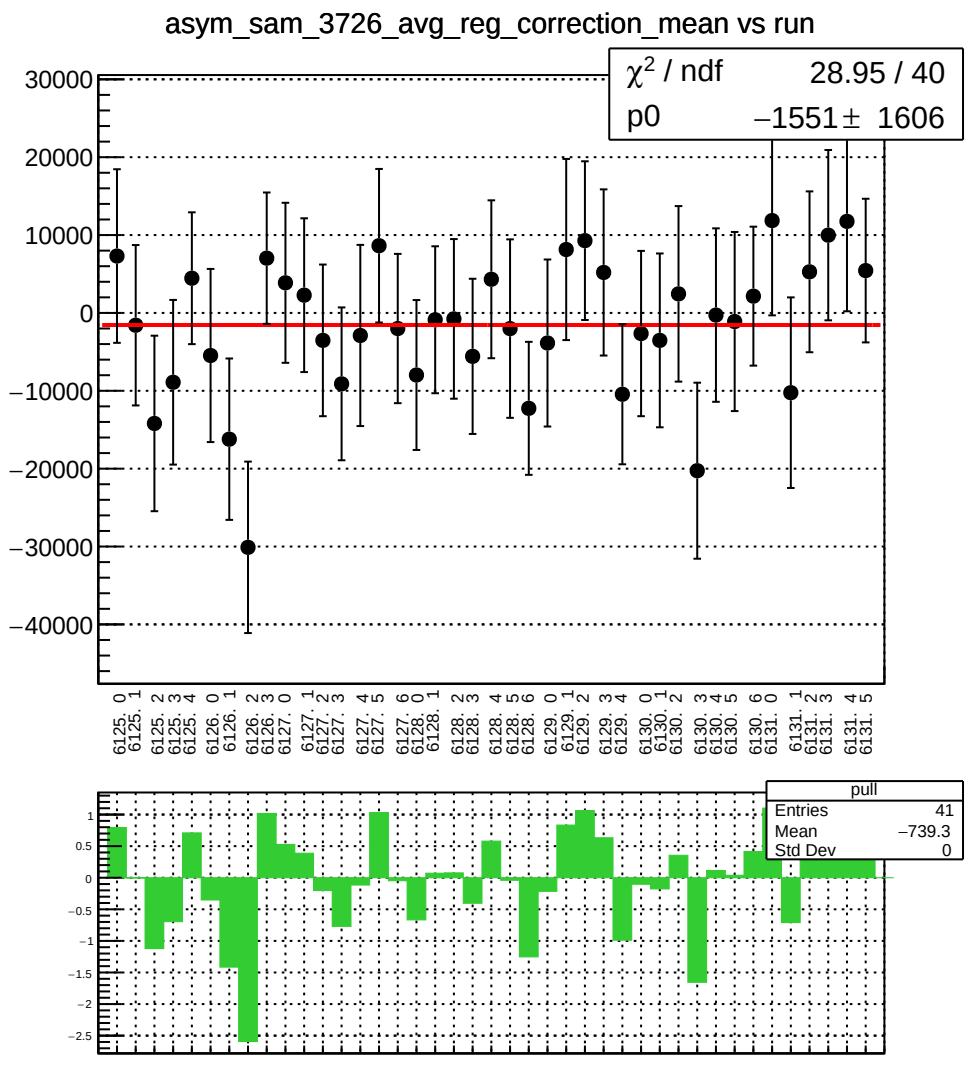

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 29.23 / 40
p0 3.12e−15 ± 2.632e−14
pull
Entries 41
Mean 3.466
Std Dev 0

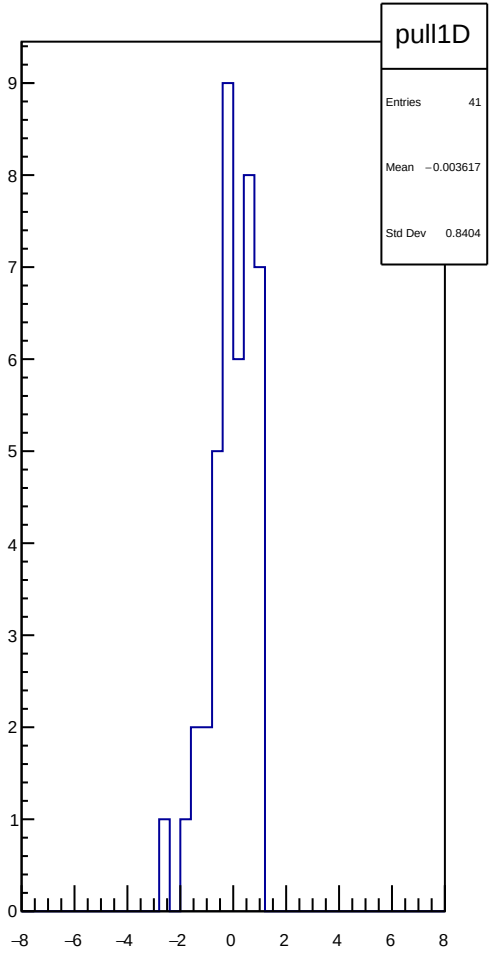

pull1D
Entries 41
Mean 0.03702
Std Dev 0.8435

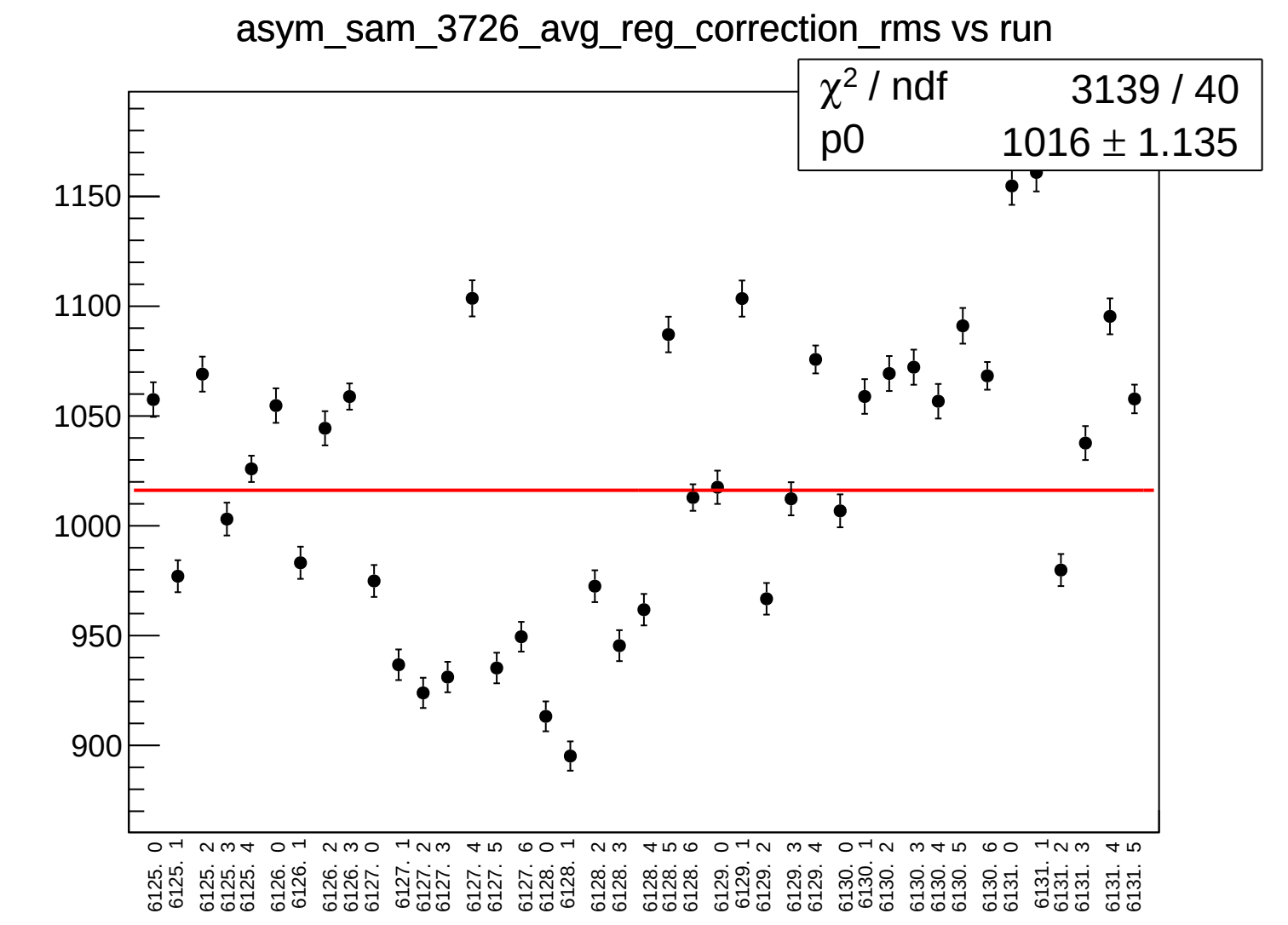

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.749e+05 / 40
p0 1.354e−11 ± 1.861e−14
90
80
70
60
50
40
30
20
10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

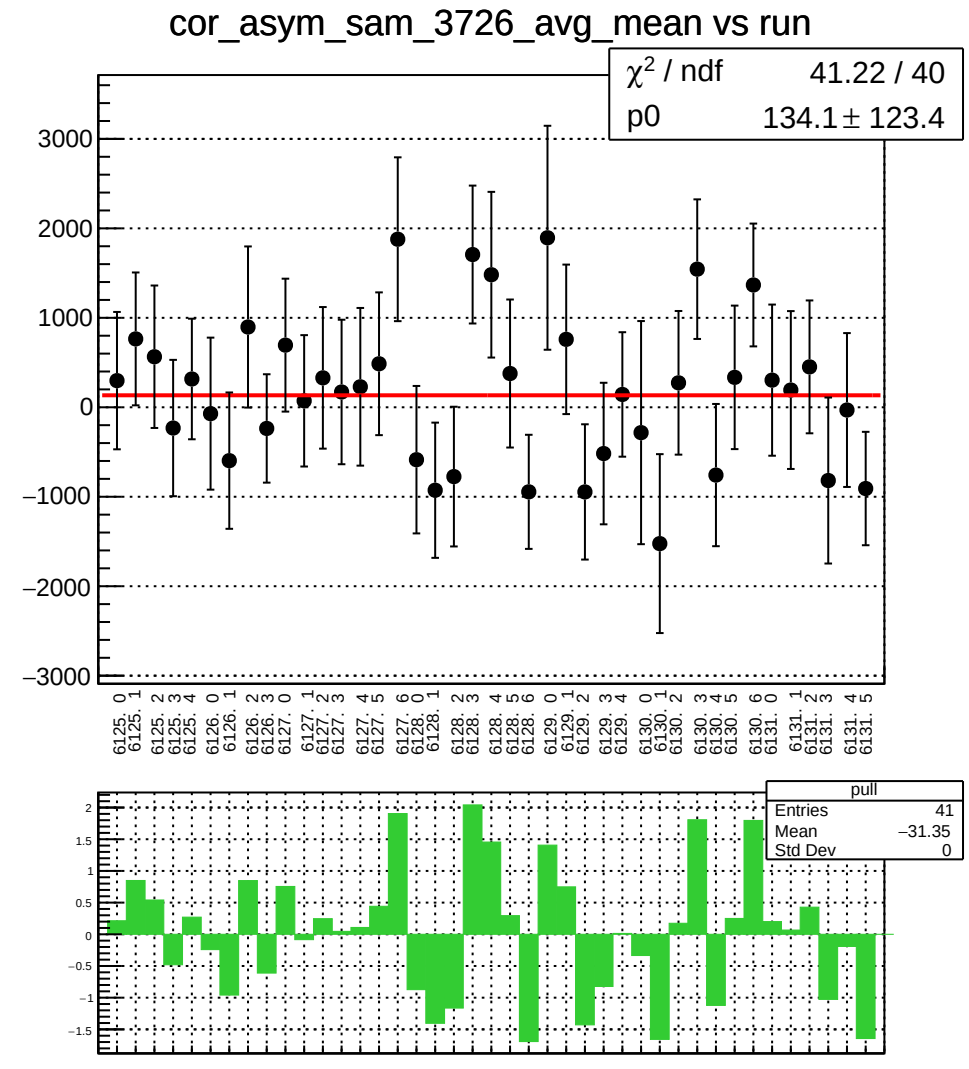

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 41.22 / 40
p0 134.1 ± 123.4
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −31.34
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.02845
Std Dev 1.002
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

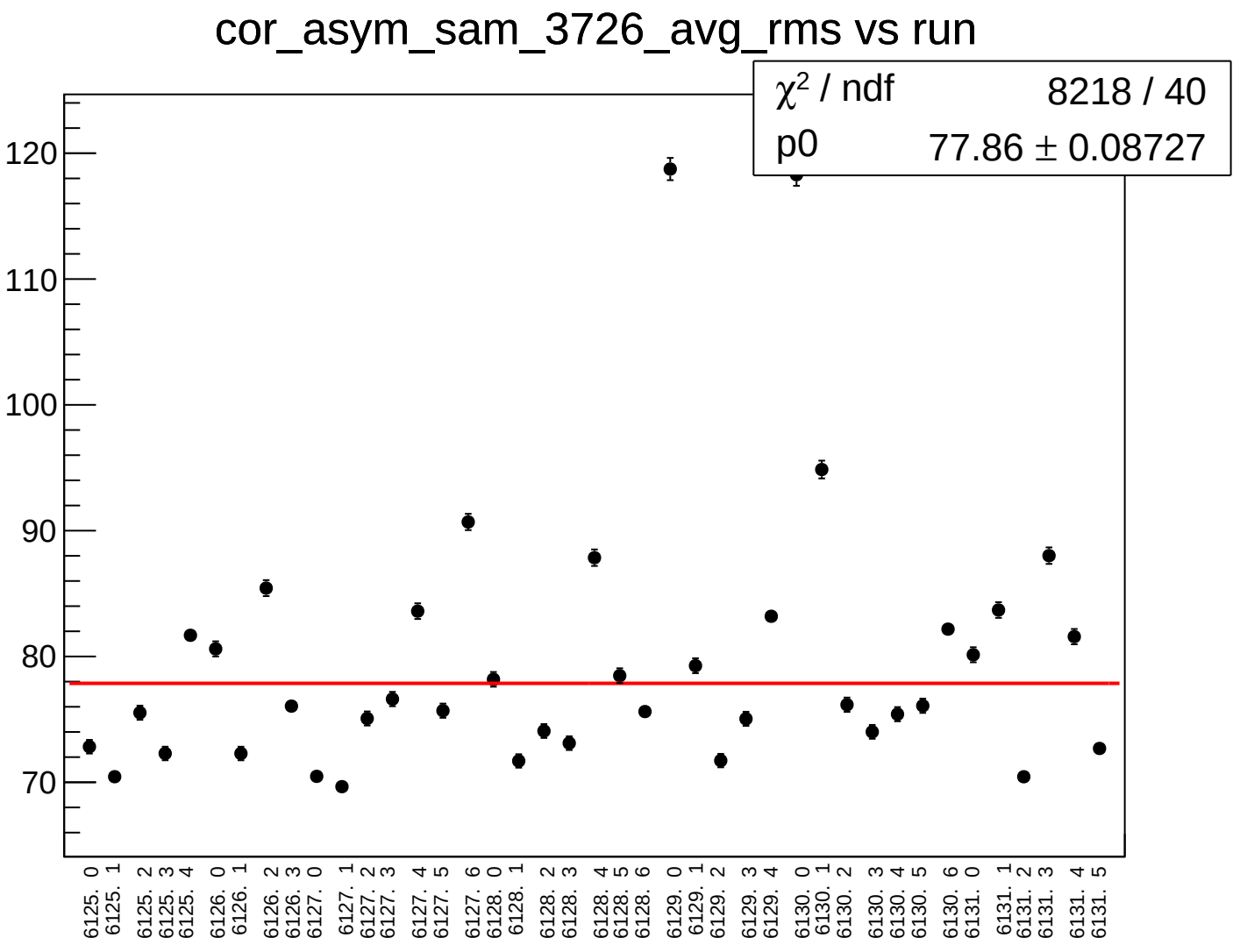

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 8218 / 40
p0 77.86 ± 0.08727
120
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

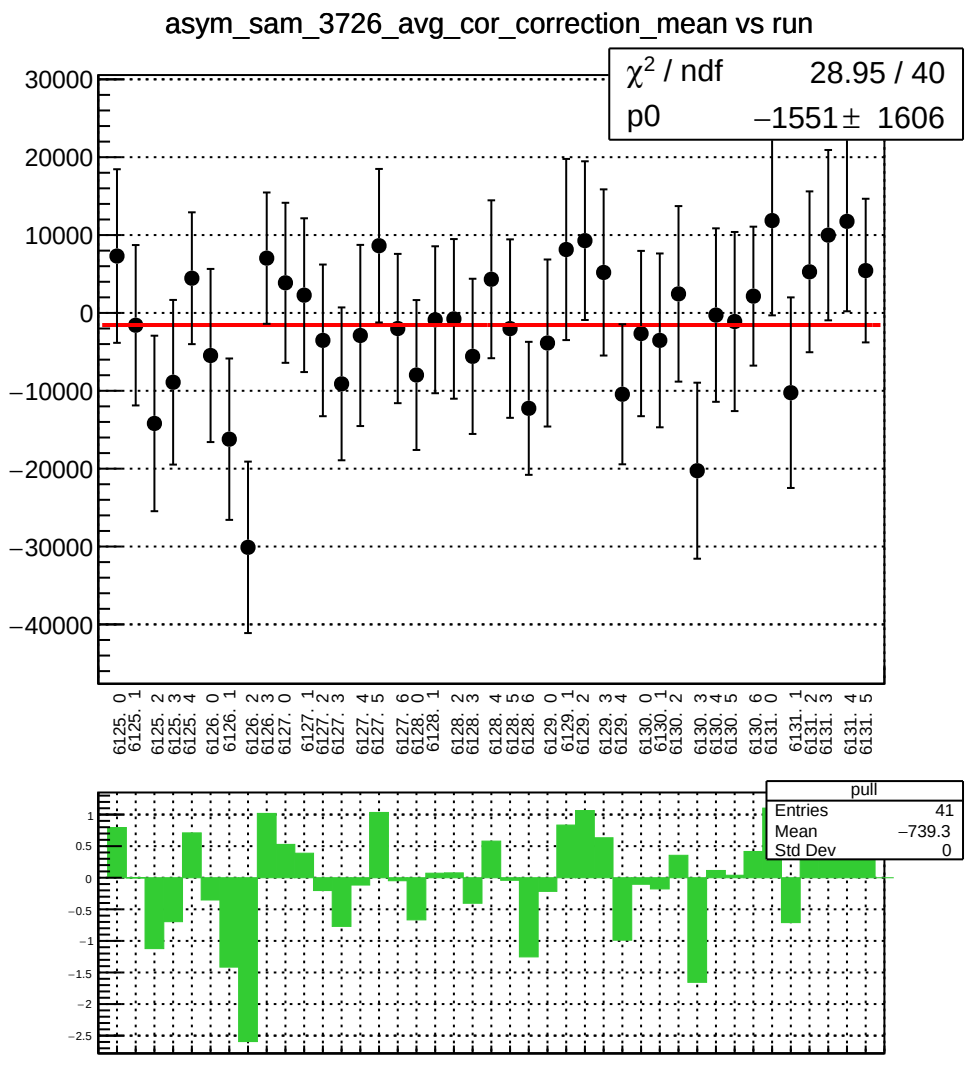

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 28.95 / 40
p0 −1551 ± 1606
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −739.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

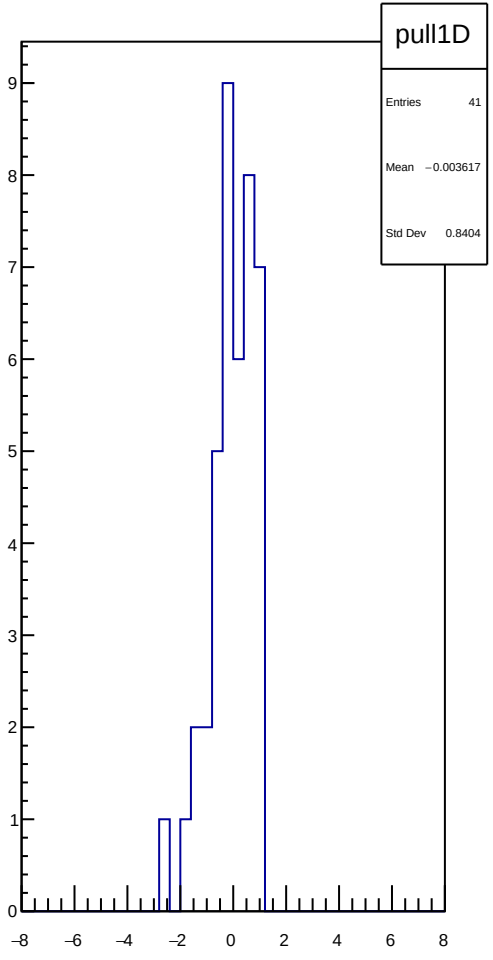

pull1D
Entries 41
Mean −0.003617
Std Dev 0.8404
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

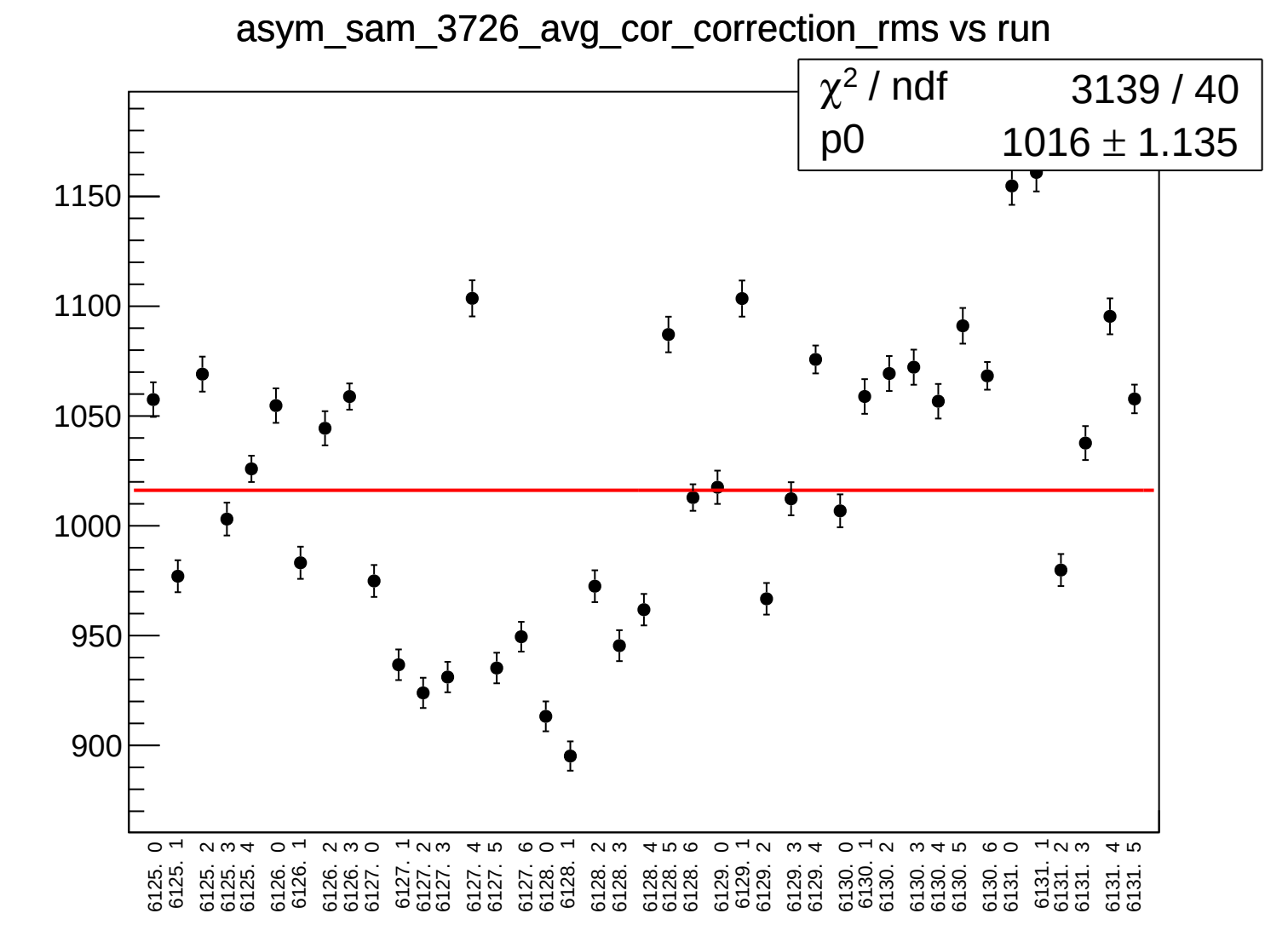

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 3139 / 40
p0 1016 ± 1.135
1150
1100
1050
1000
950
900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

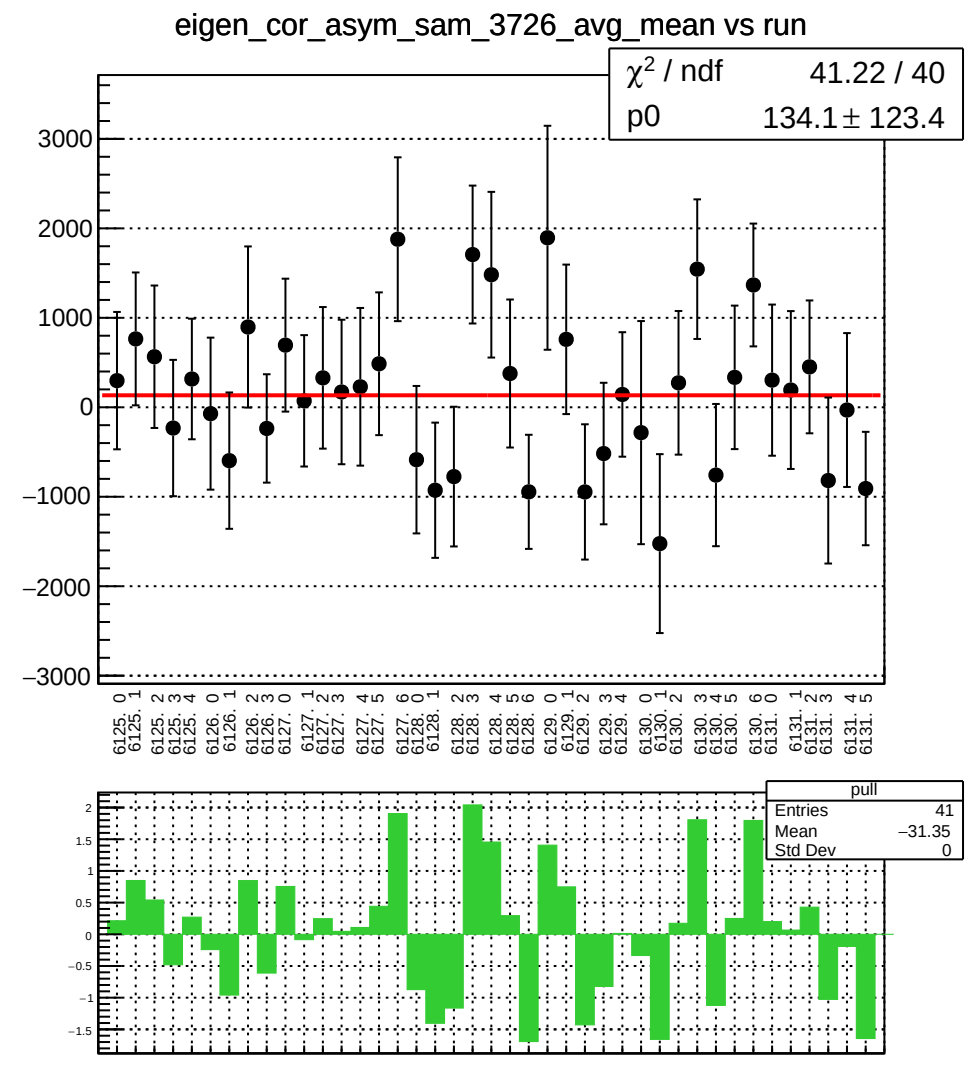

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 41.22 / 40
p0 134.1 ± 123.4
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −31.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.02845
Std Dev 1.002
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

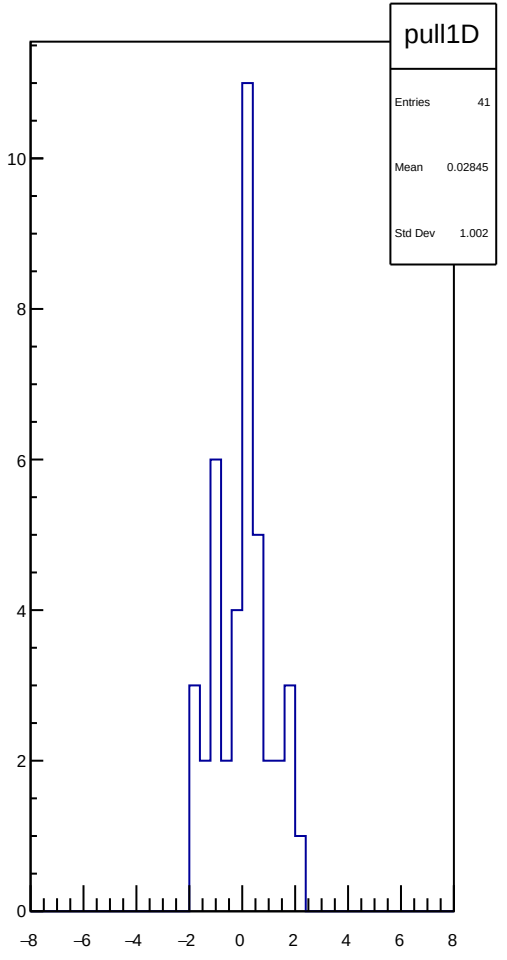

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 8218 / 40
p0 77.86 ± 0.08727
120
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

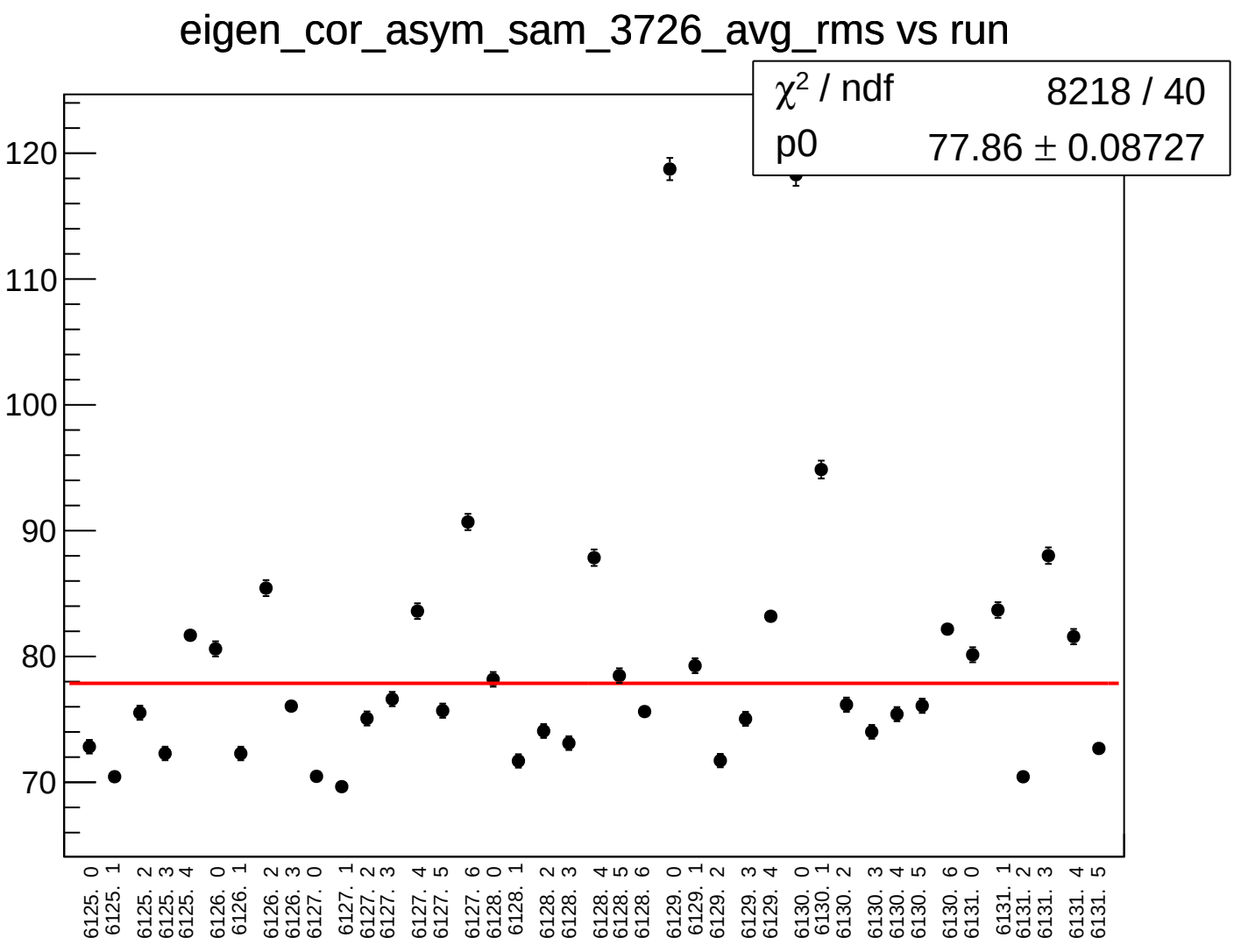

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 28.95 / 40
p0 −1551 ± 1606
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −739.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

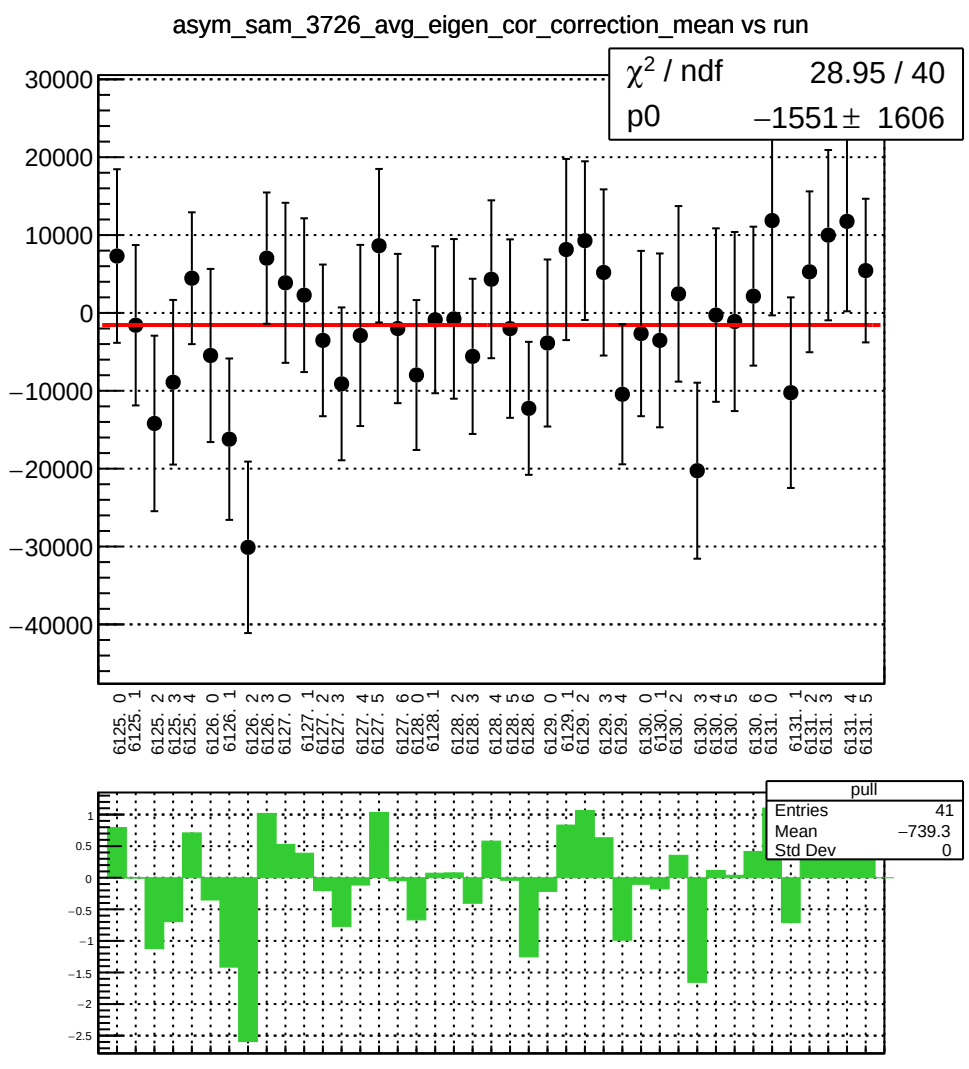

pull1D
Entries 41
Mean −0.003617
Std Dev 0.8404
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

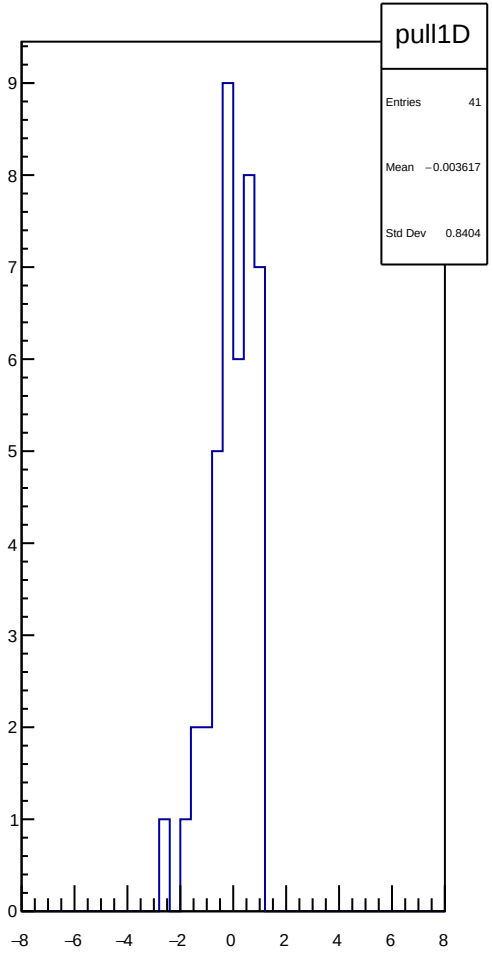

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 3139 / 40
p0 1016 ± 1.135
1150
1100
1050
1000
950
900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

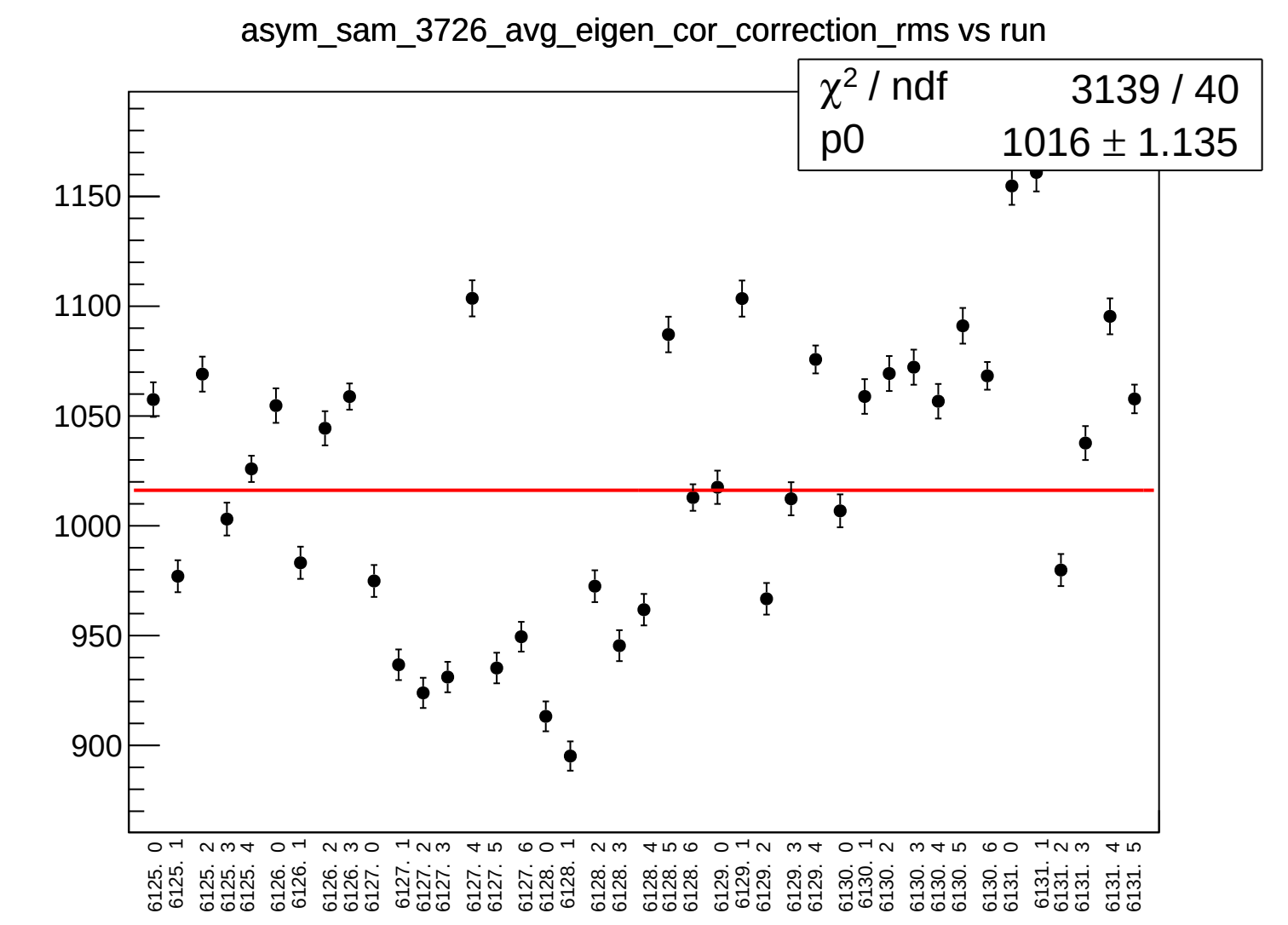

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 41.22 / 40
p0 134.1 ± 123.4
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −31.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

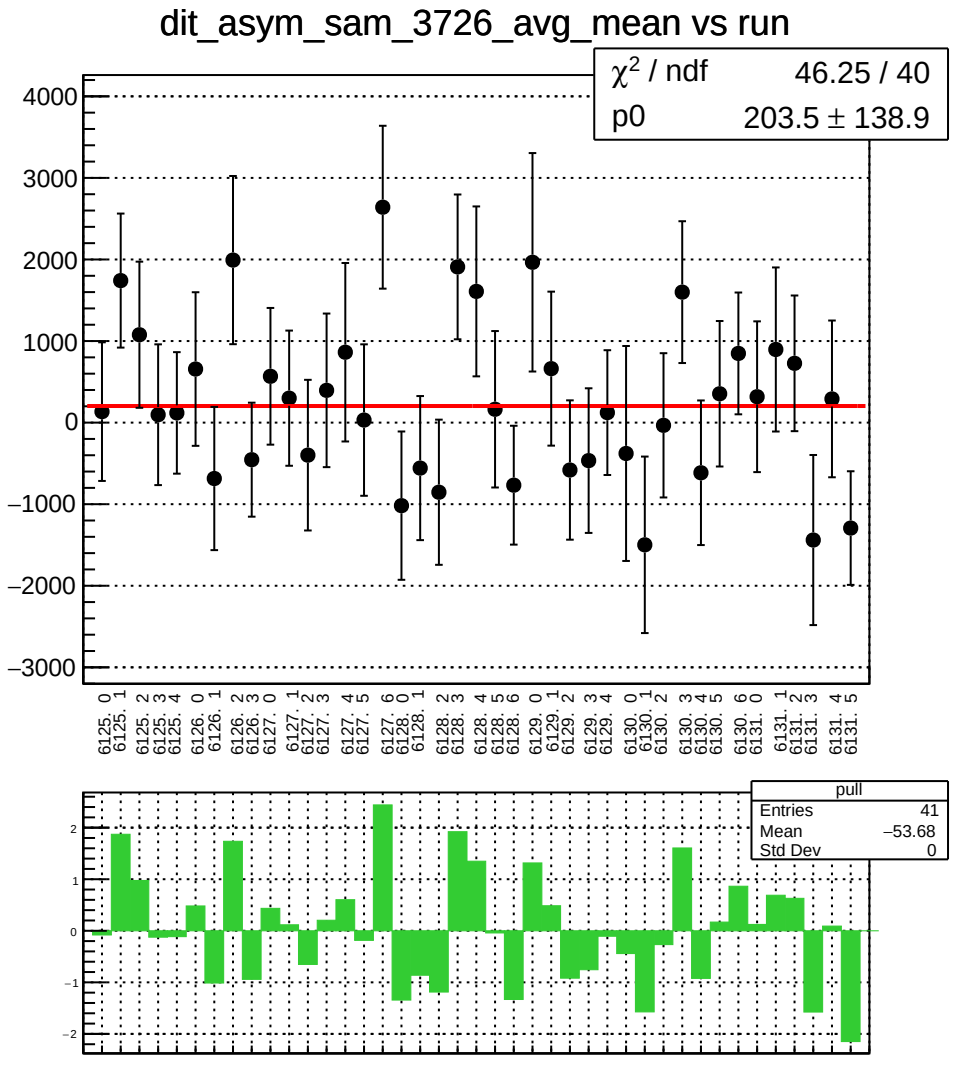

pull1D
Entries 41
Mean 0.02845
Std Dev 1.002
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

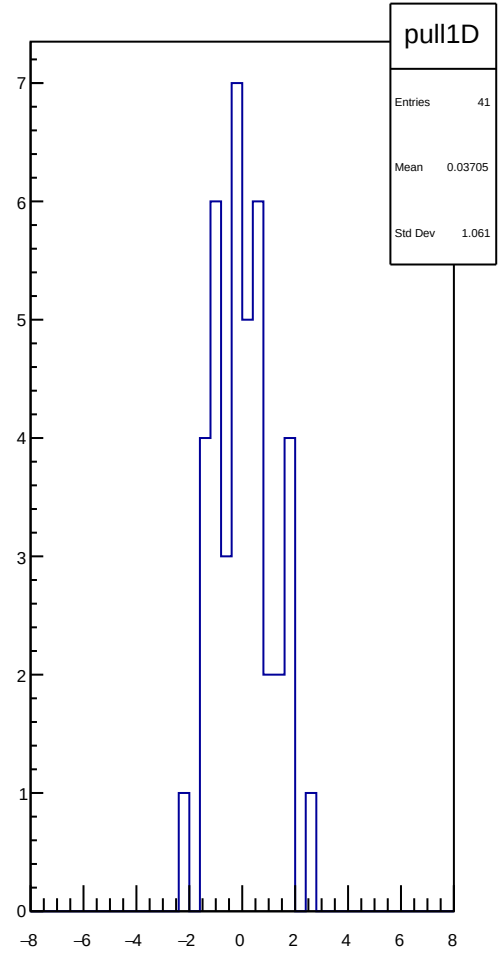

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 8218 / 40
p0 77.86 ± 0.08727
120
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

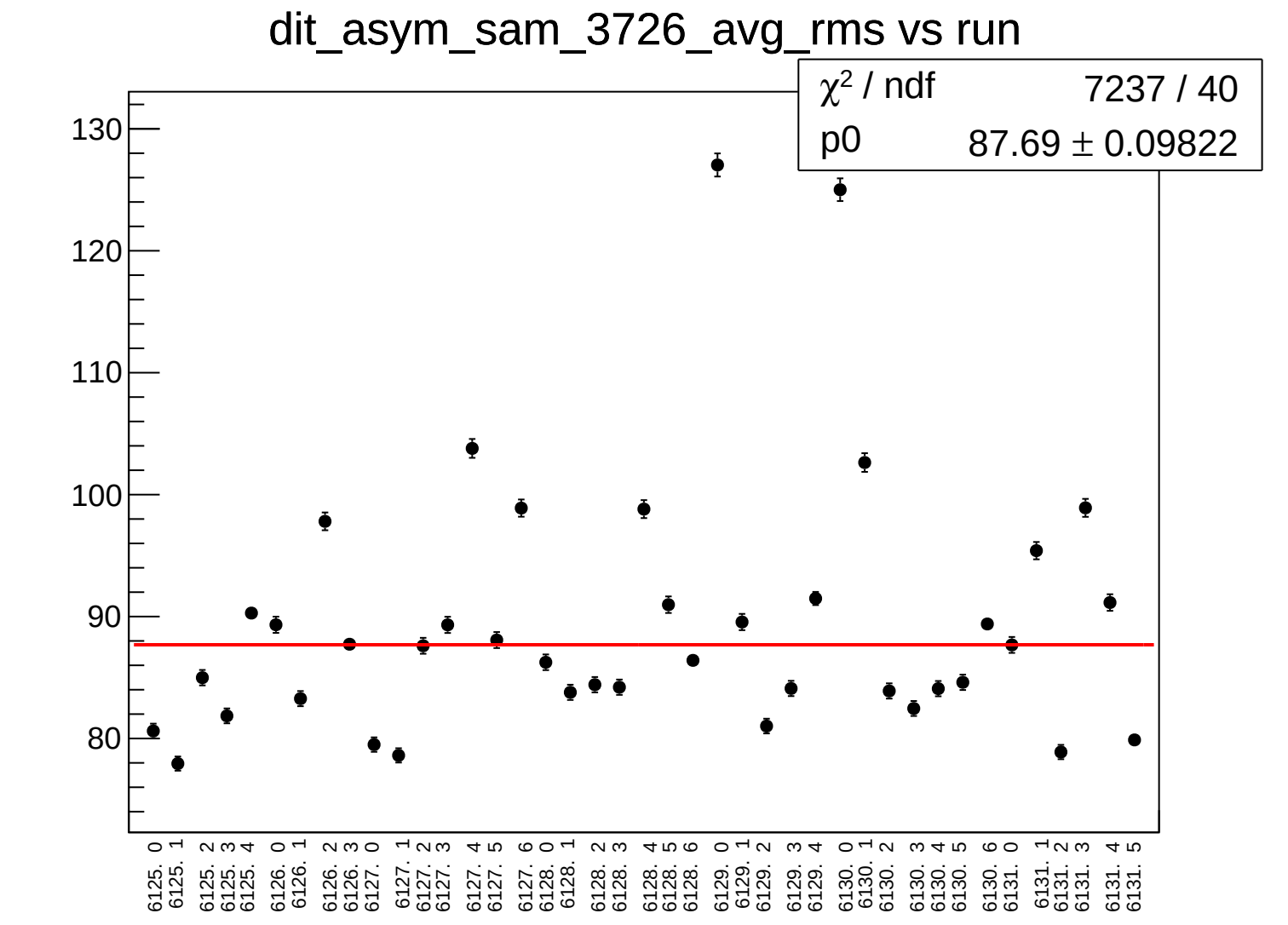

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 28.95 / 40
p0 −1551 ± 1606
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −739.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

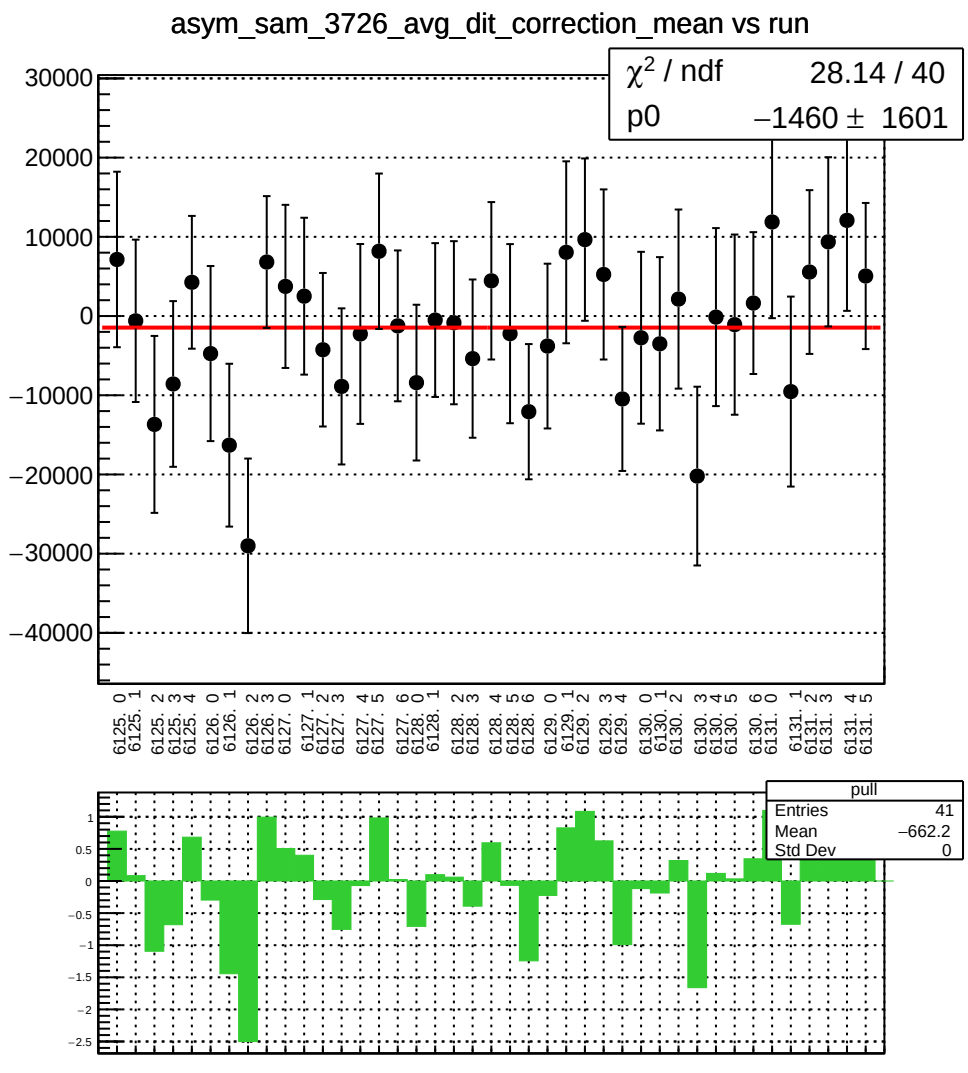

pull1D
Entries 41
Mean −0.003617
Std Dev 0.8404
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

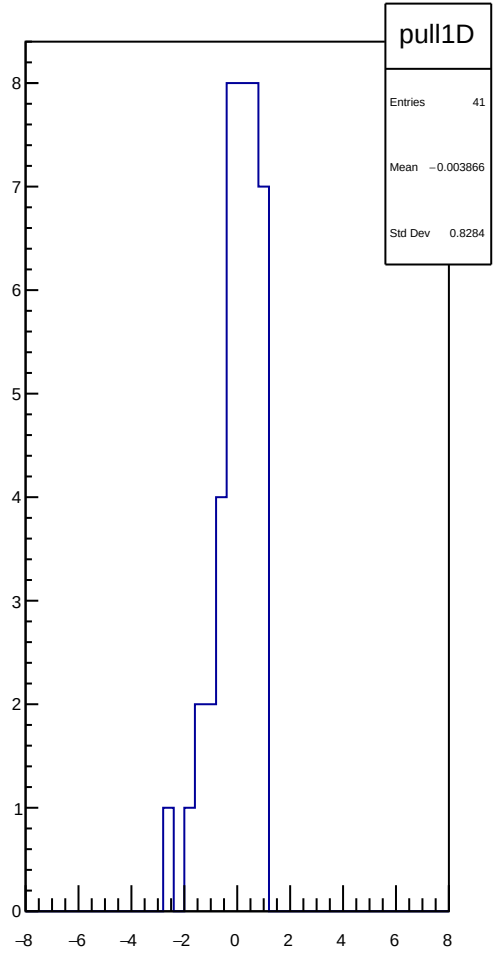

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 3139 / 40
p0 1016 ± 1.135
1150
1100
1050
1000
950
900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

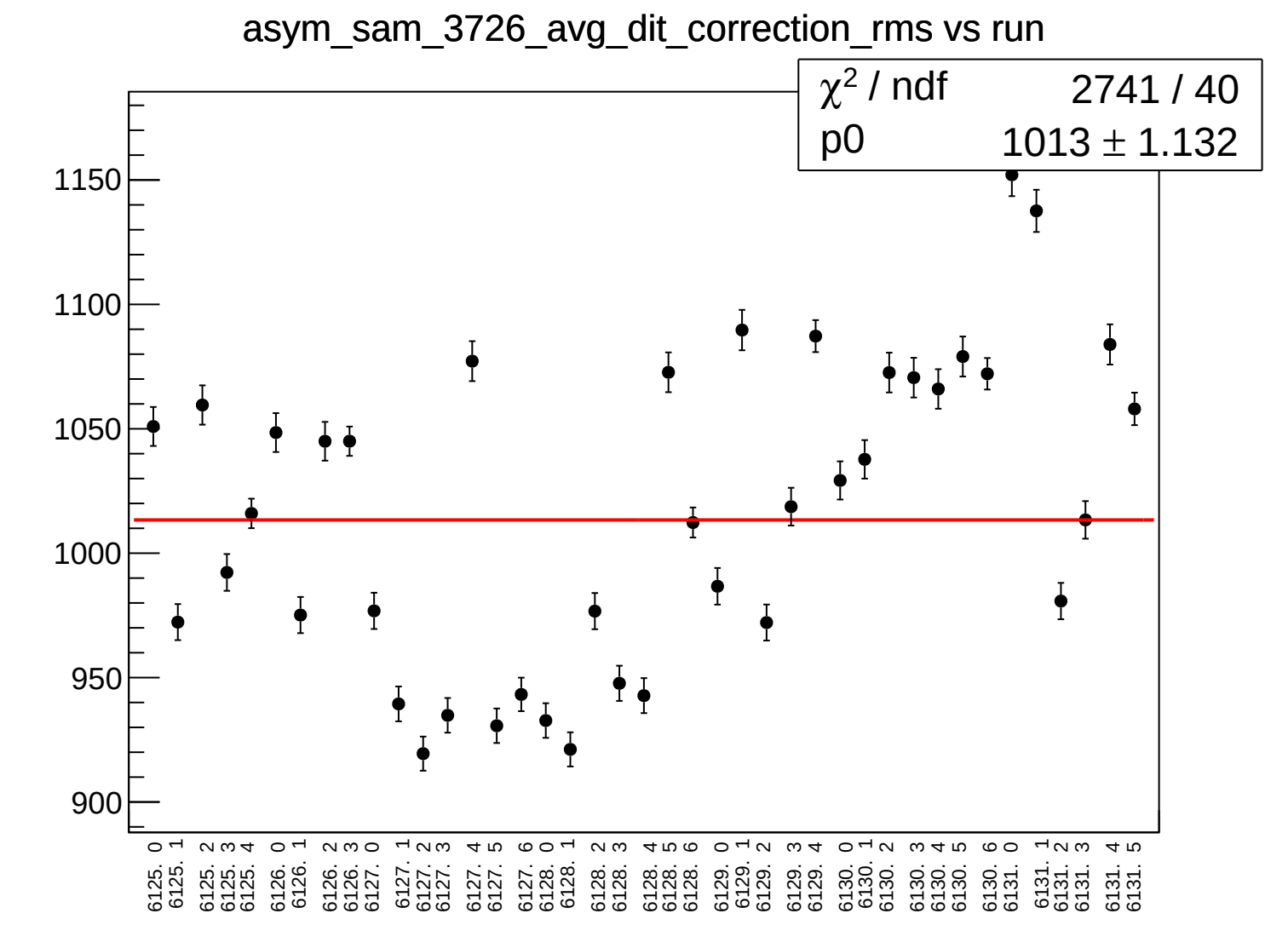

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 46.25 / 40
p0 203.5 ± 138.9
4000
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −53.68
Std Dev 0
2
1
0
−1
−2

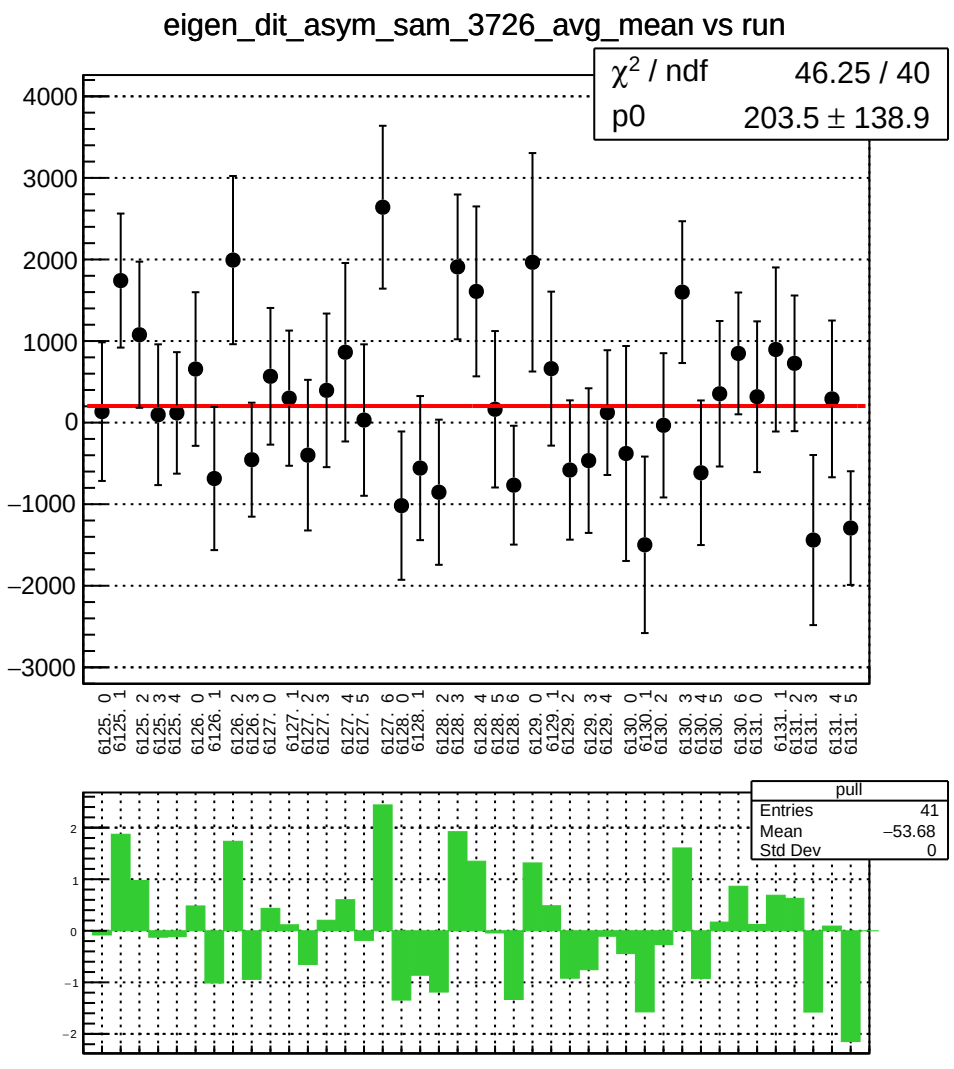

pull1D
Entries 41
Mean 0.03705
Std Dev 1.061
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

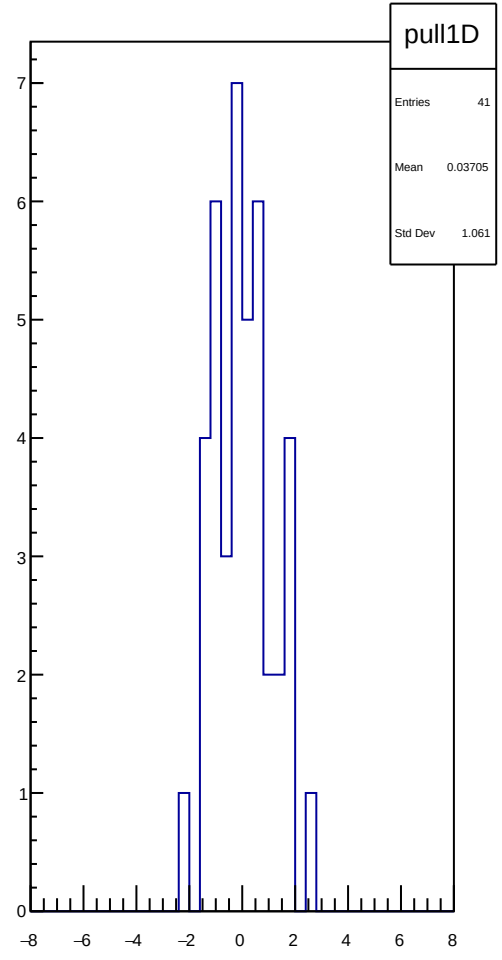

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 7237 / 40
p0 87.69 ± 0.09822
130
120
110
100
90
80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

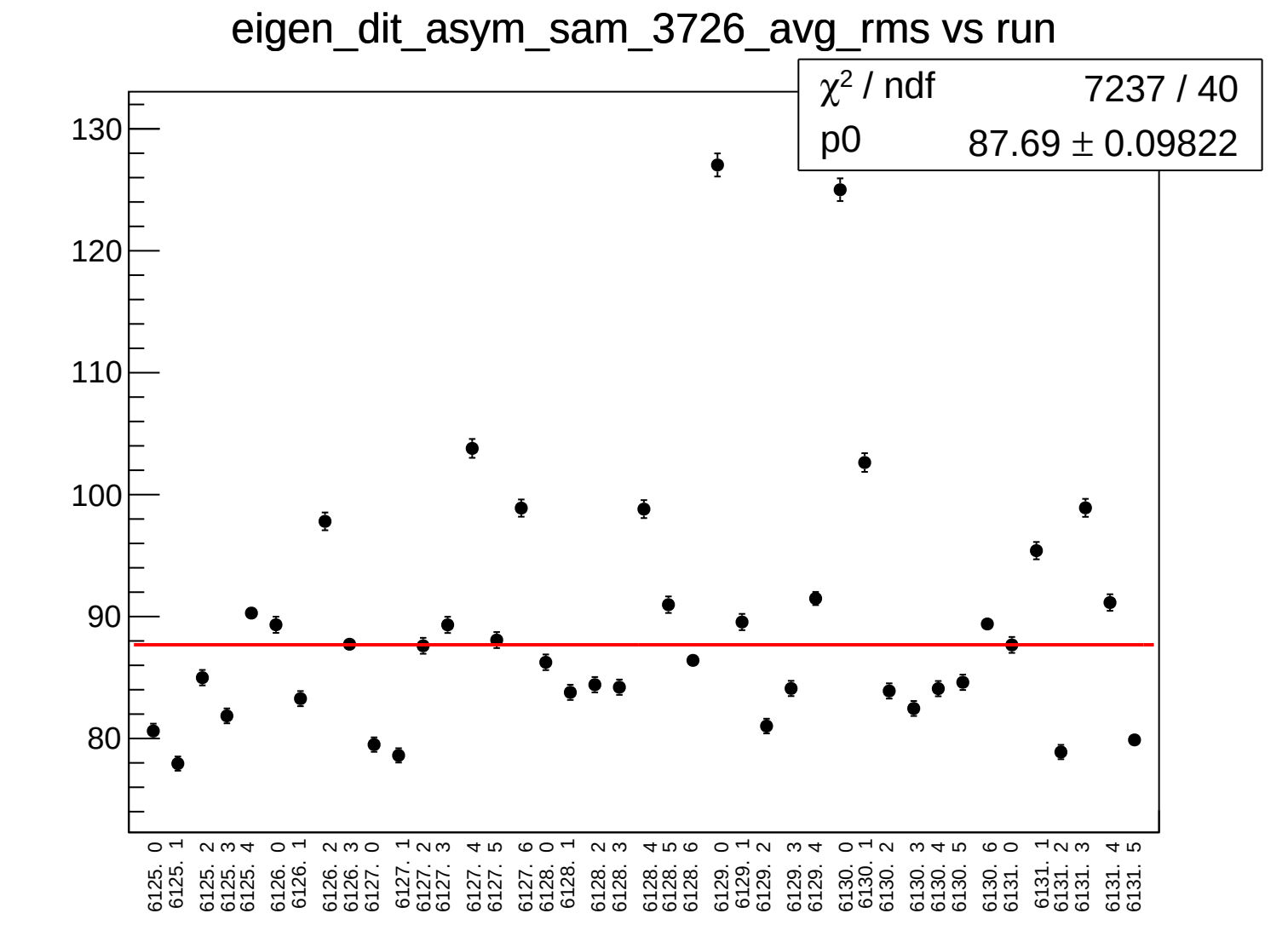

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 28.14 / 40
p0 −1460 ± 1601
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −662.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

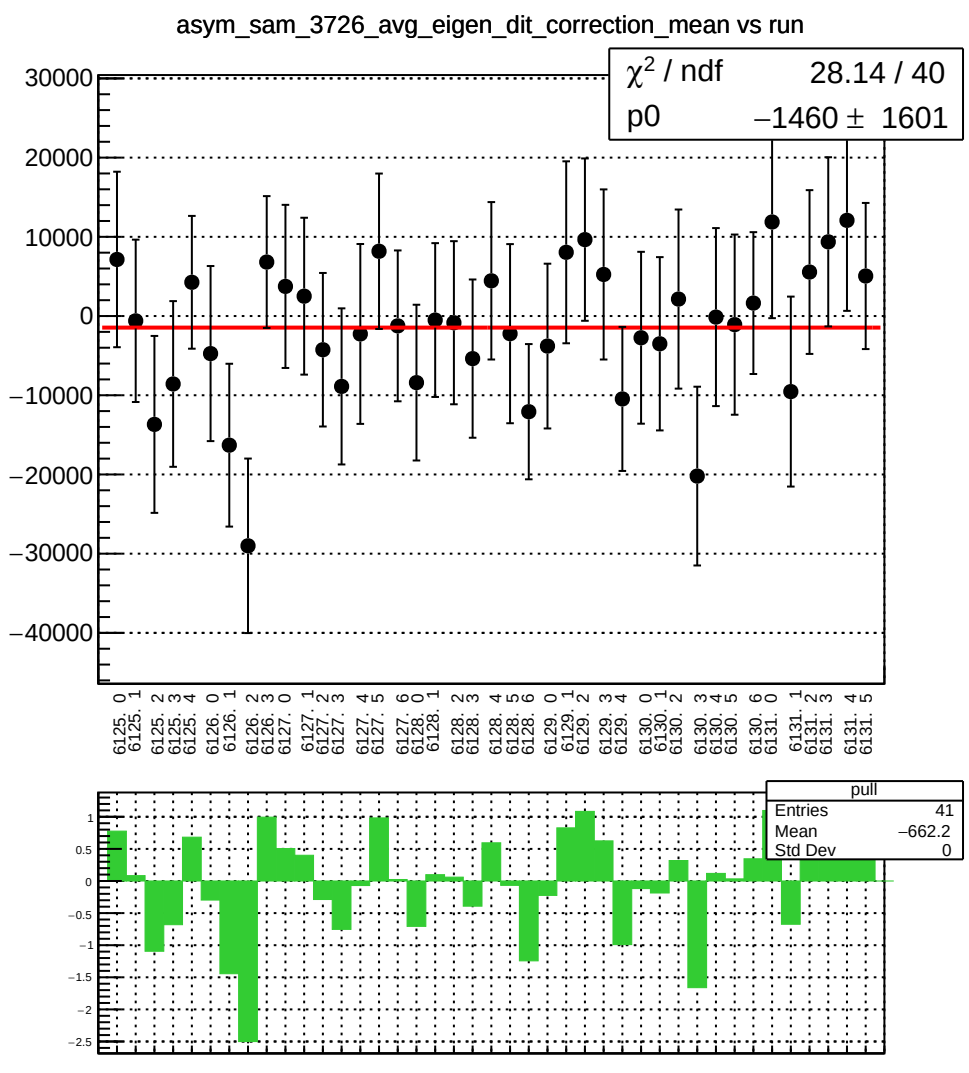

pull1D
Entries 41
Mean −0.003866
Std Dev 0.8284
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

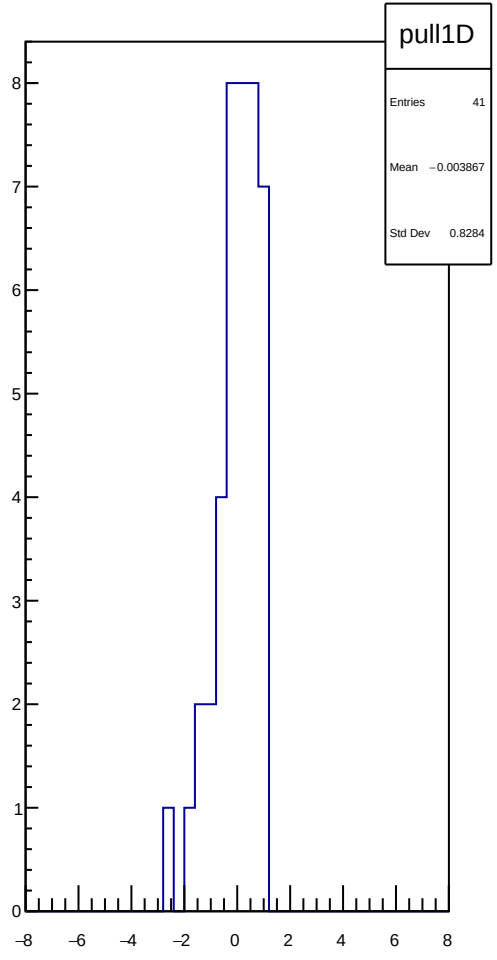

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 2741 / 40
p0 1013 ± 1.132
1150
1100
1050
1000
950
900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

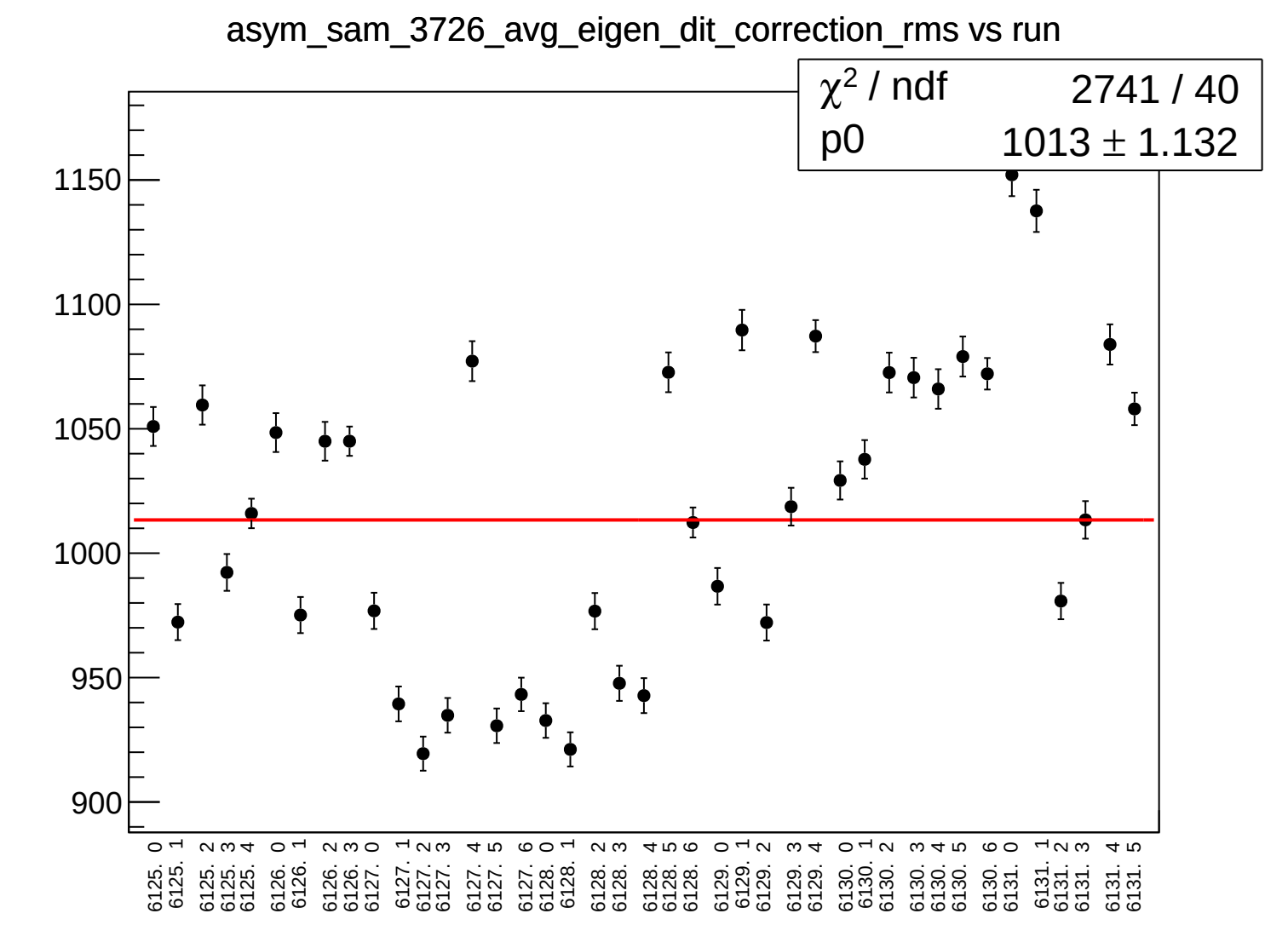

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 46.25 / 40
p0 203.5 ± 138.9
4000
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −53.68
Std Dev 0
2
1
0
−1
−2

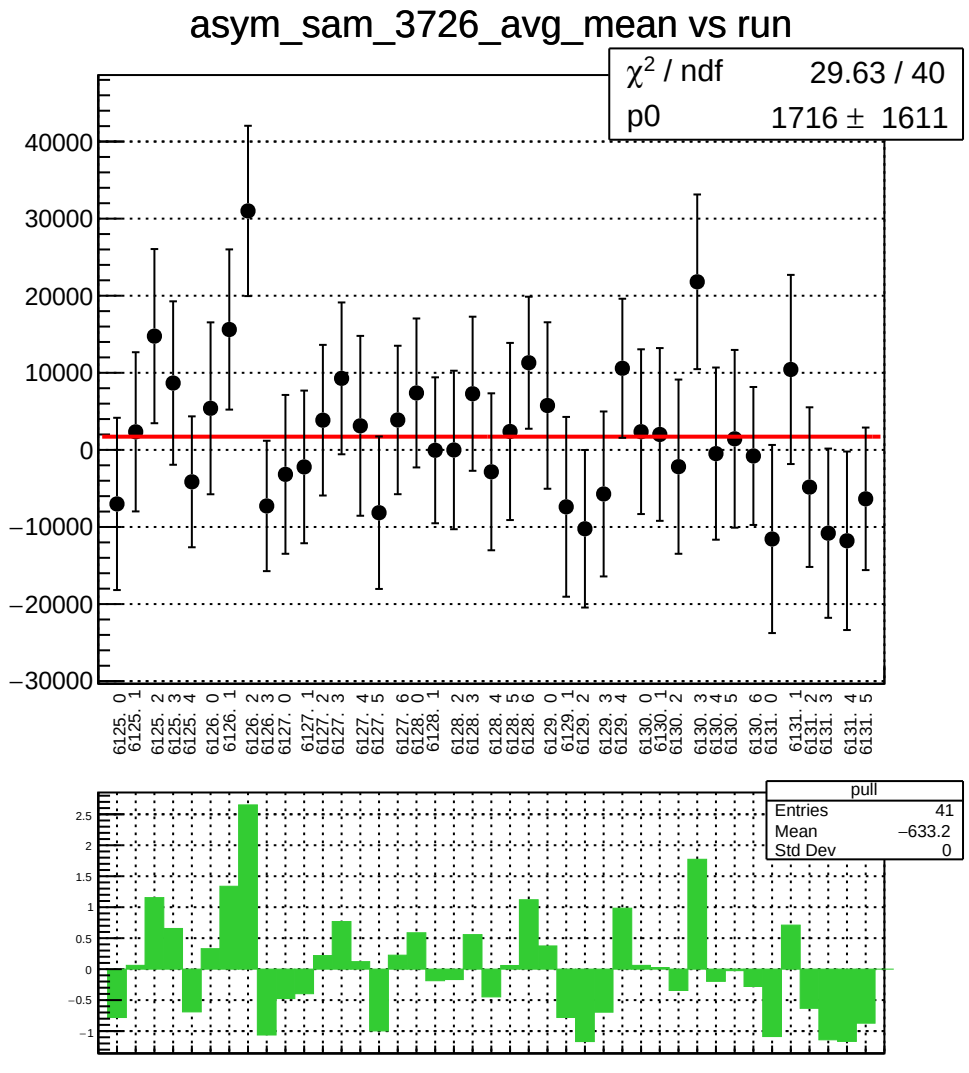

pull1D
Entries 41
Mean 0.03705
Std Dev 1.061
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

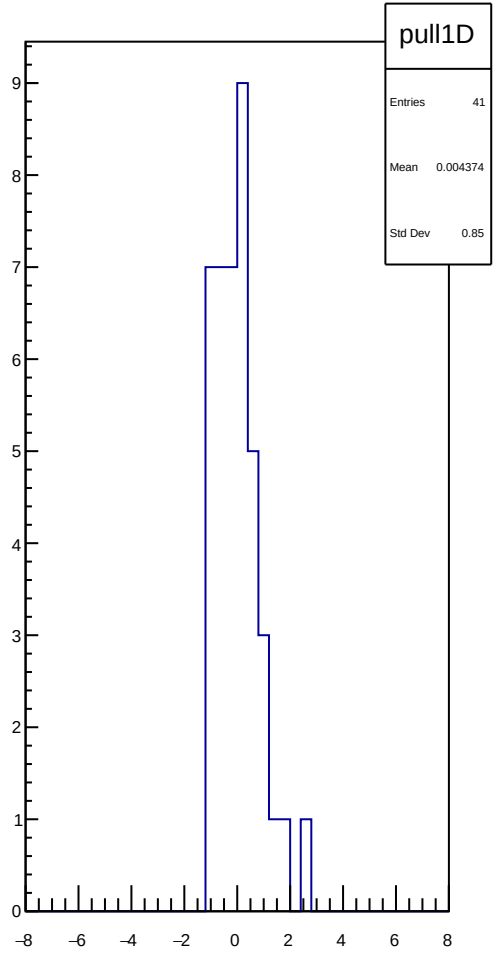

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 7237 / 40
p0 87.69 ± 0.09822
130
120
110
100
90
80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

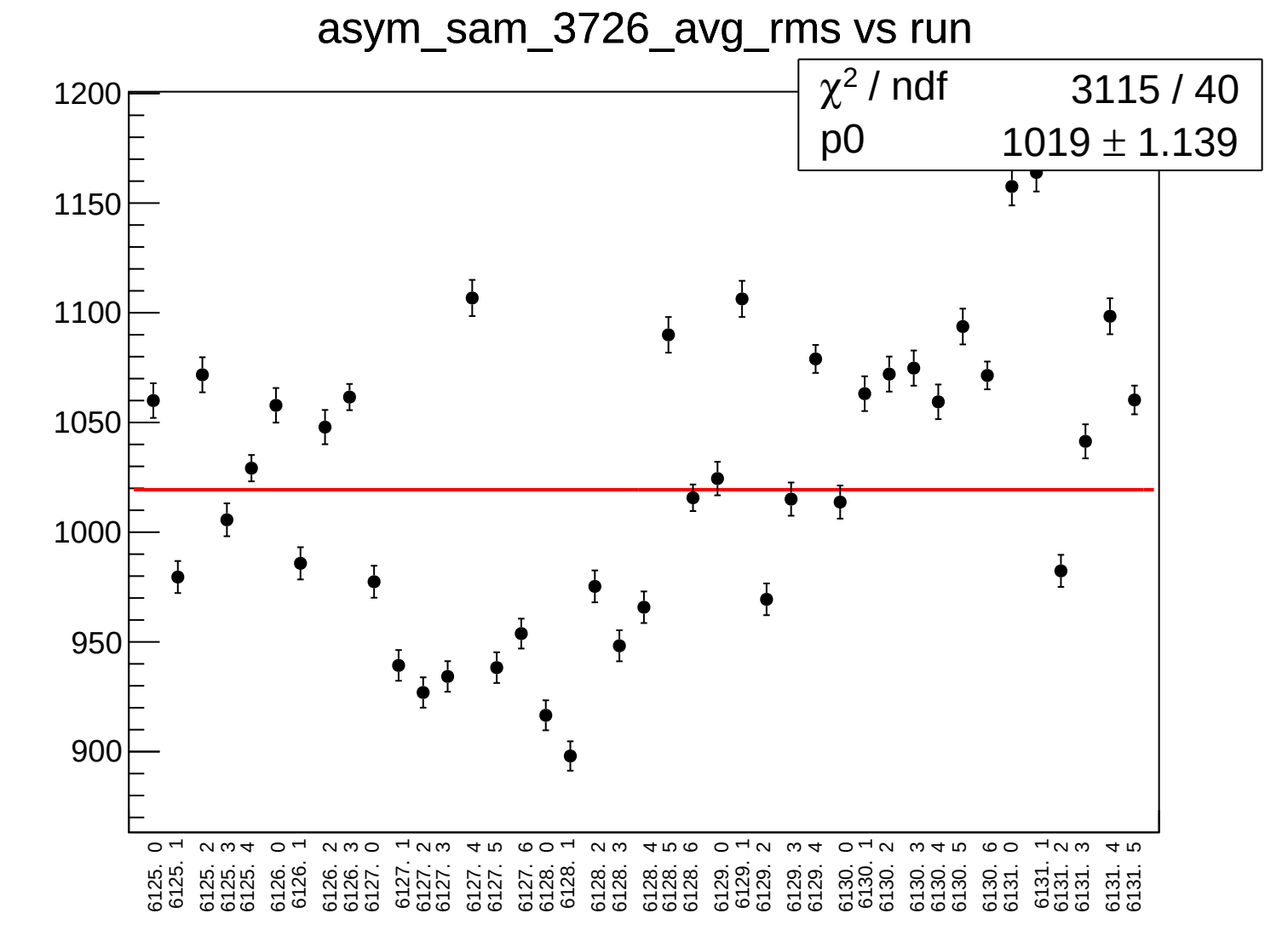

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 28.14 / 40
p0 −1460 ± 1601
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −662.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

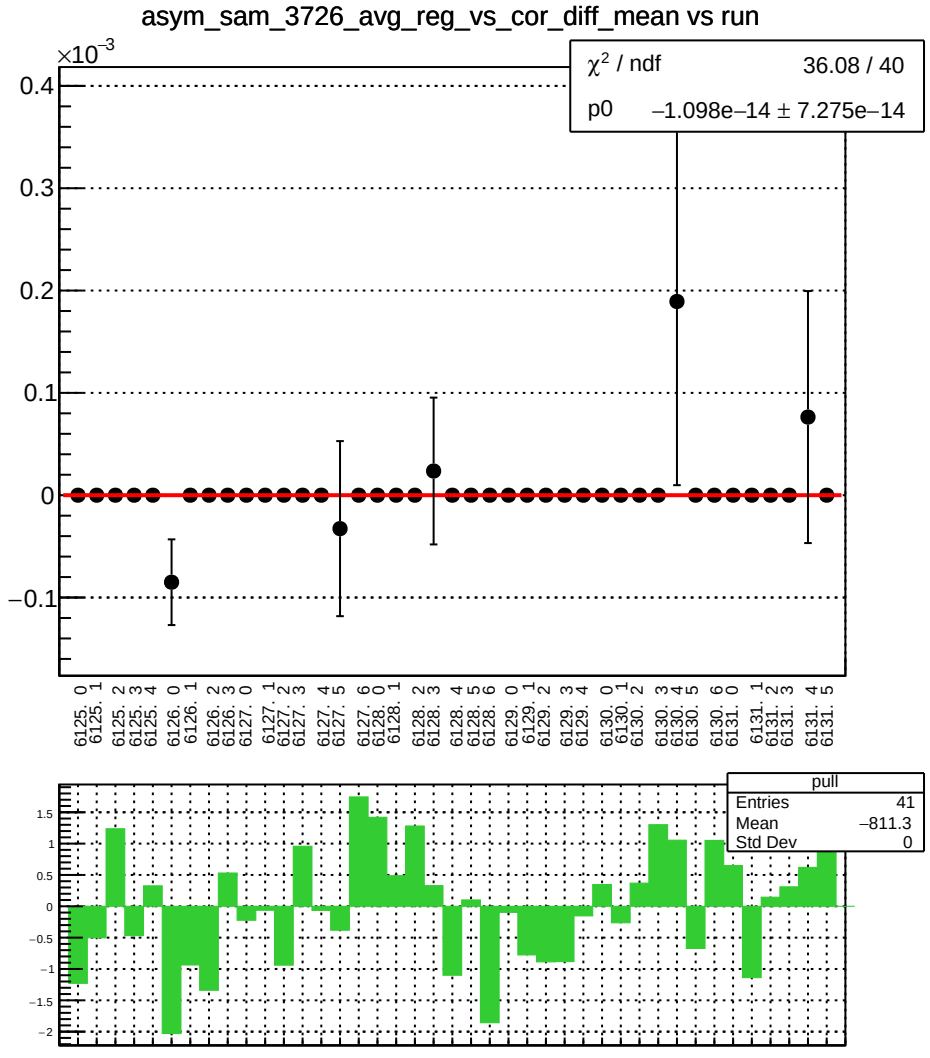

pull1D
Entries 41
Mean −0.003867
Std Dev 0.8284
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

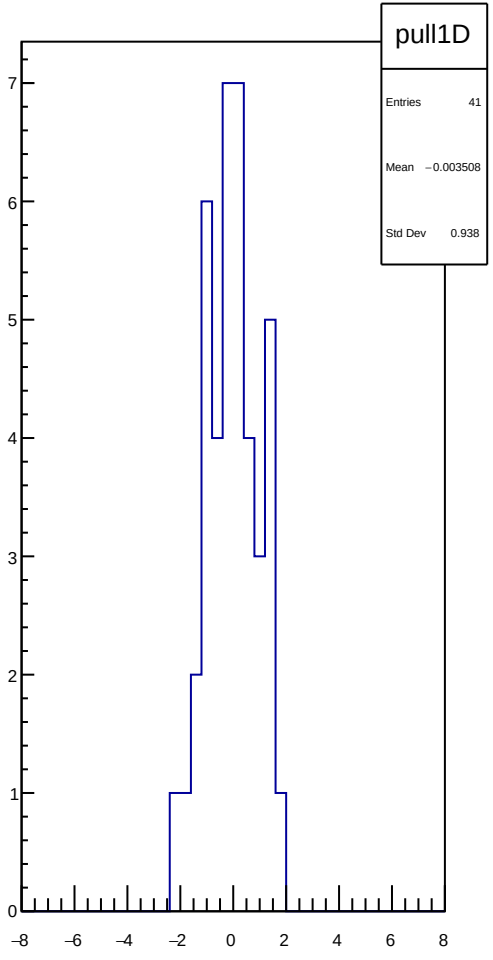

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 2741 / 40
p0 1013 ± 1.132
1150
1100
1050
1000
950
900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

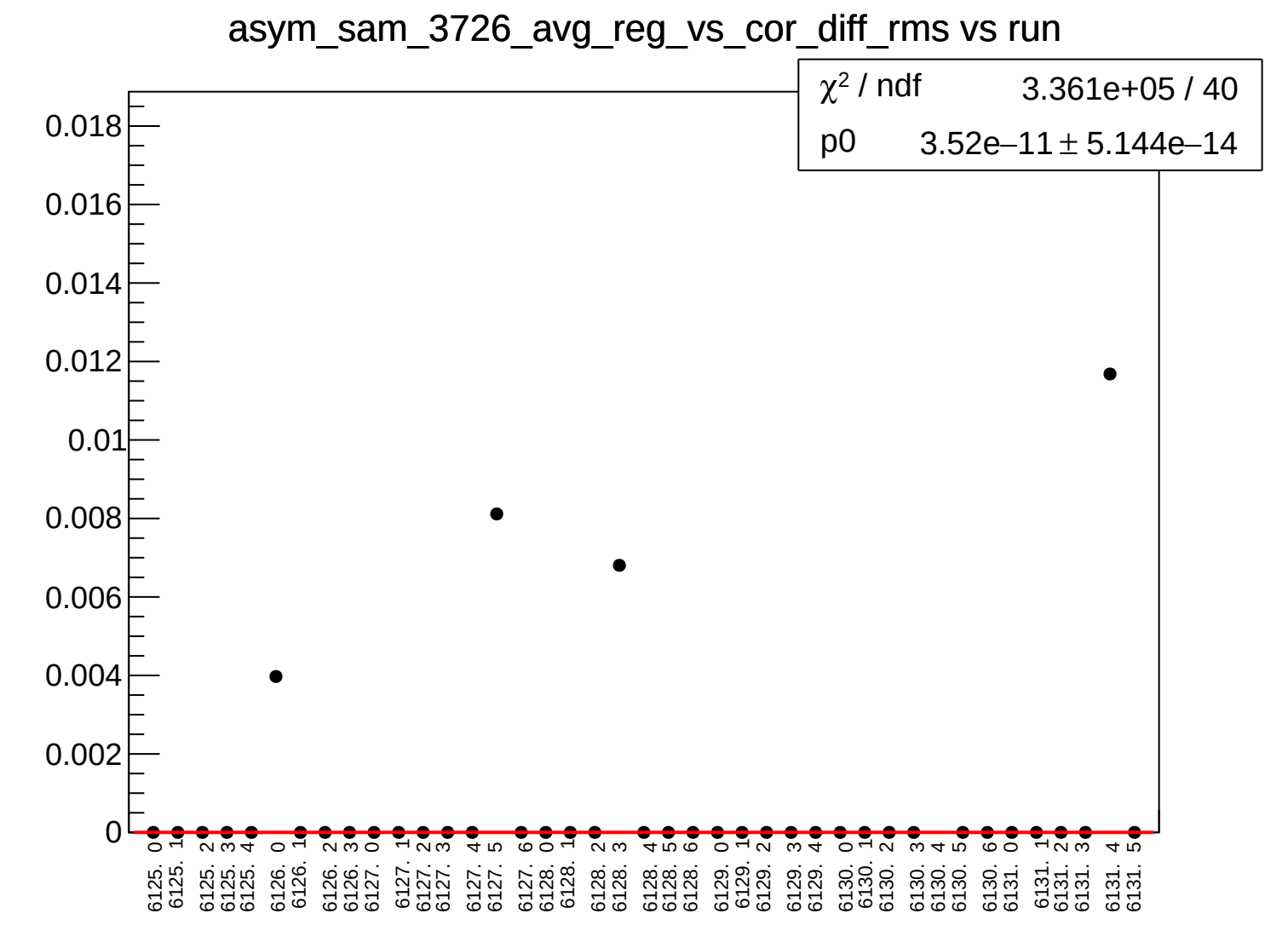

asym_sam_3726_avg_mean vs run
χ² / ndf 29.63 / 40
p0 1716 ± 1611
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −633.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

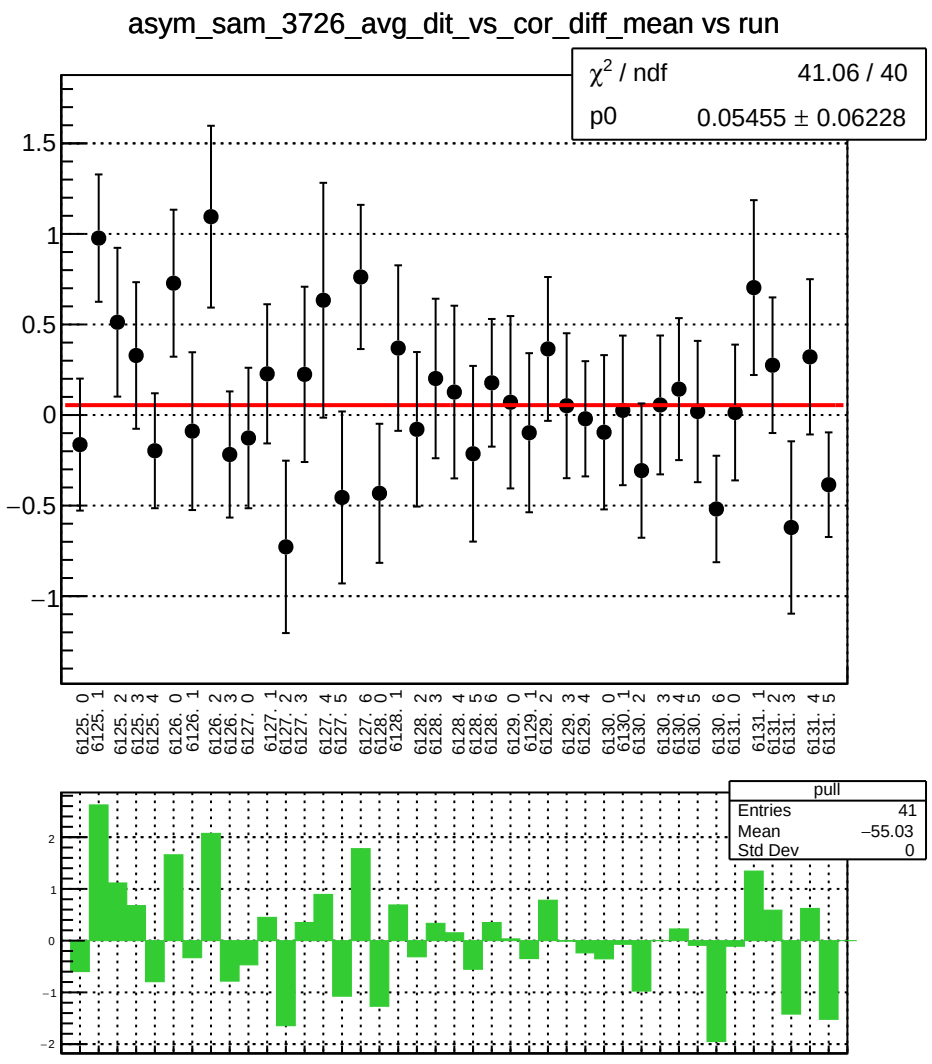

pull1D
Entries 41
Mean 0.004374
Std Dev 0.85
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

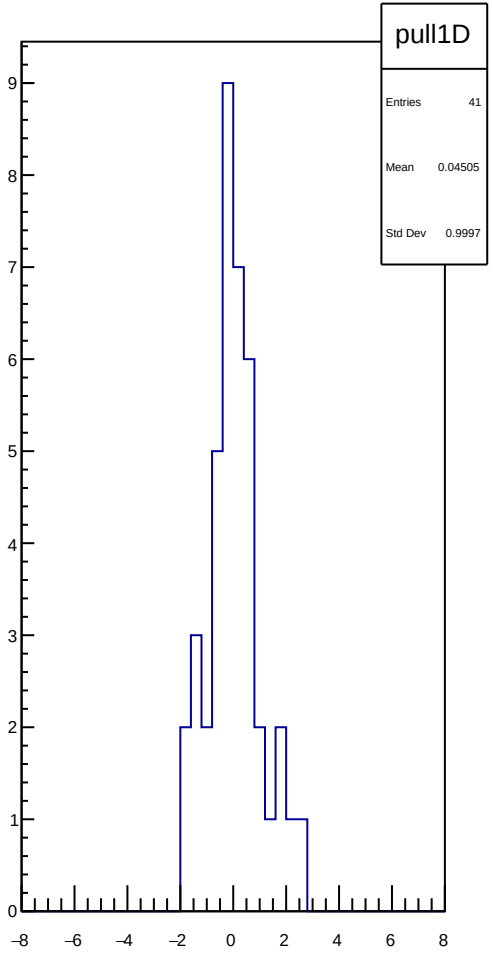

asym_sam_3726_avg_rms vs run
χ² / ndf 3115 / 40
p0 1019 ± 1.139
1200
1150
1100
1050
1000
950
900
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

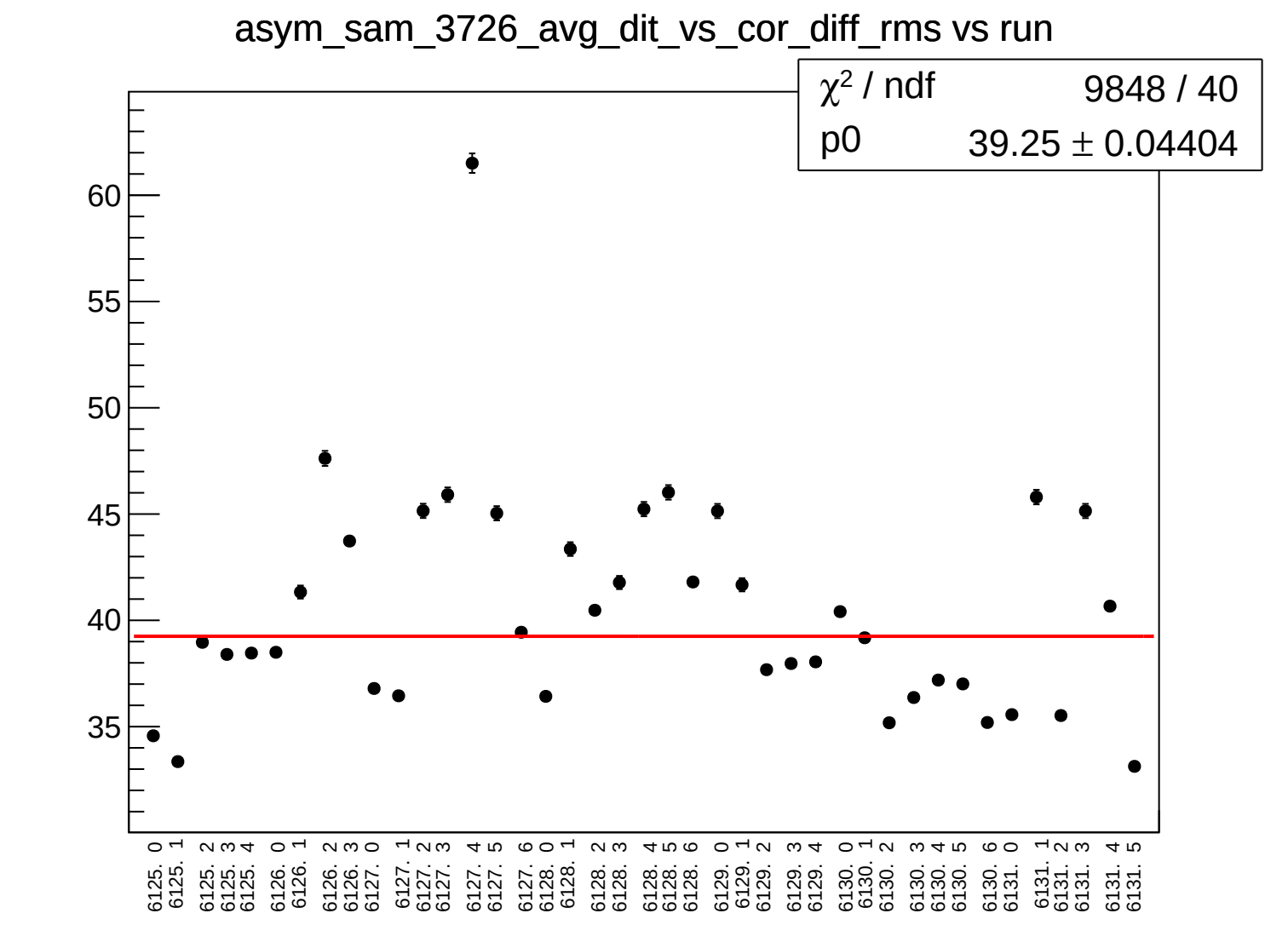

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 36.08 / 40
p0 −1.098e−14 ± 7.275e−14
0.4
0.3
0.2
0.1
0
−0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −811.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

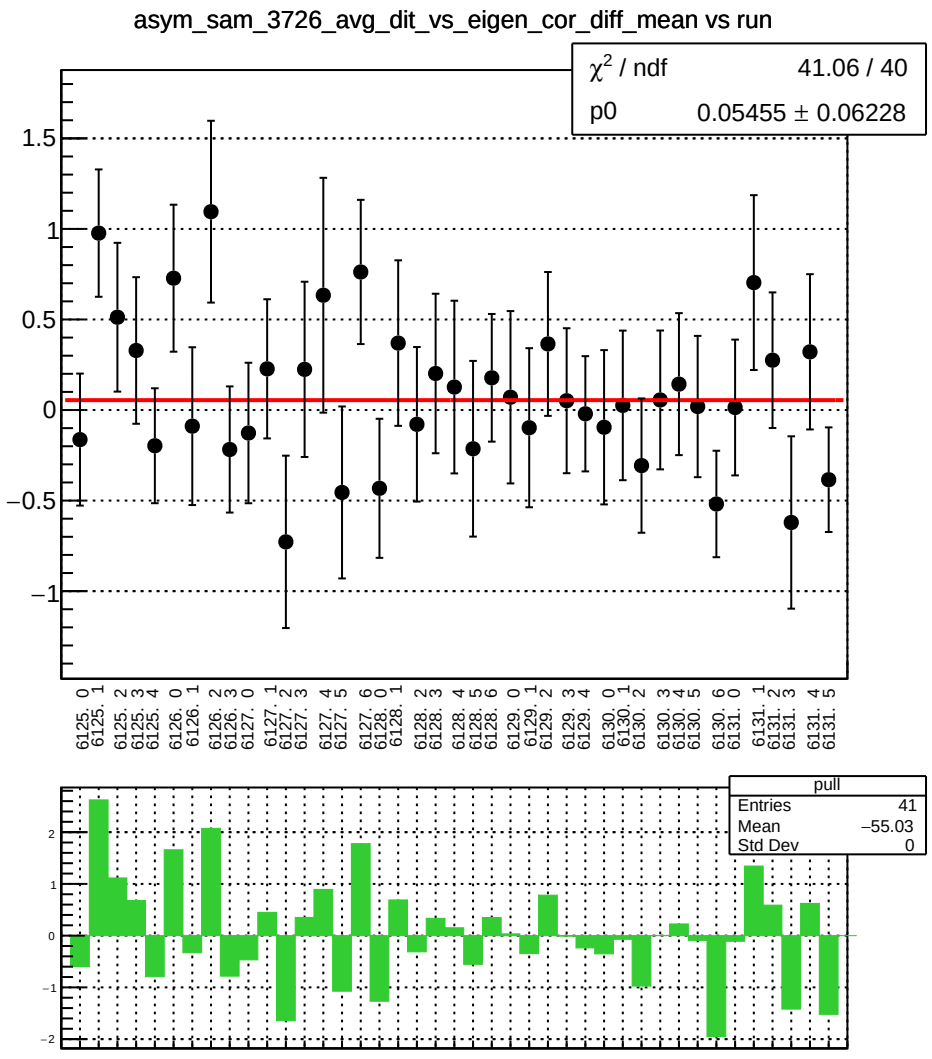

pull1D
Entries 41
Mean −0.003508
Std Dev 0.938
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

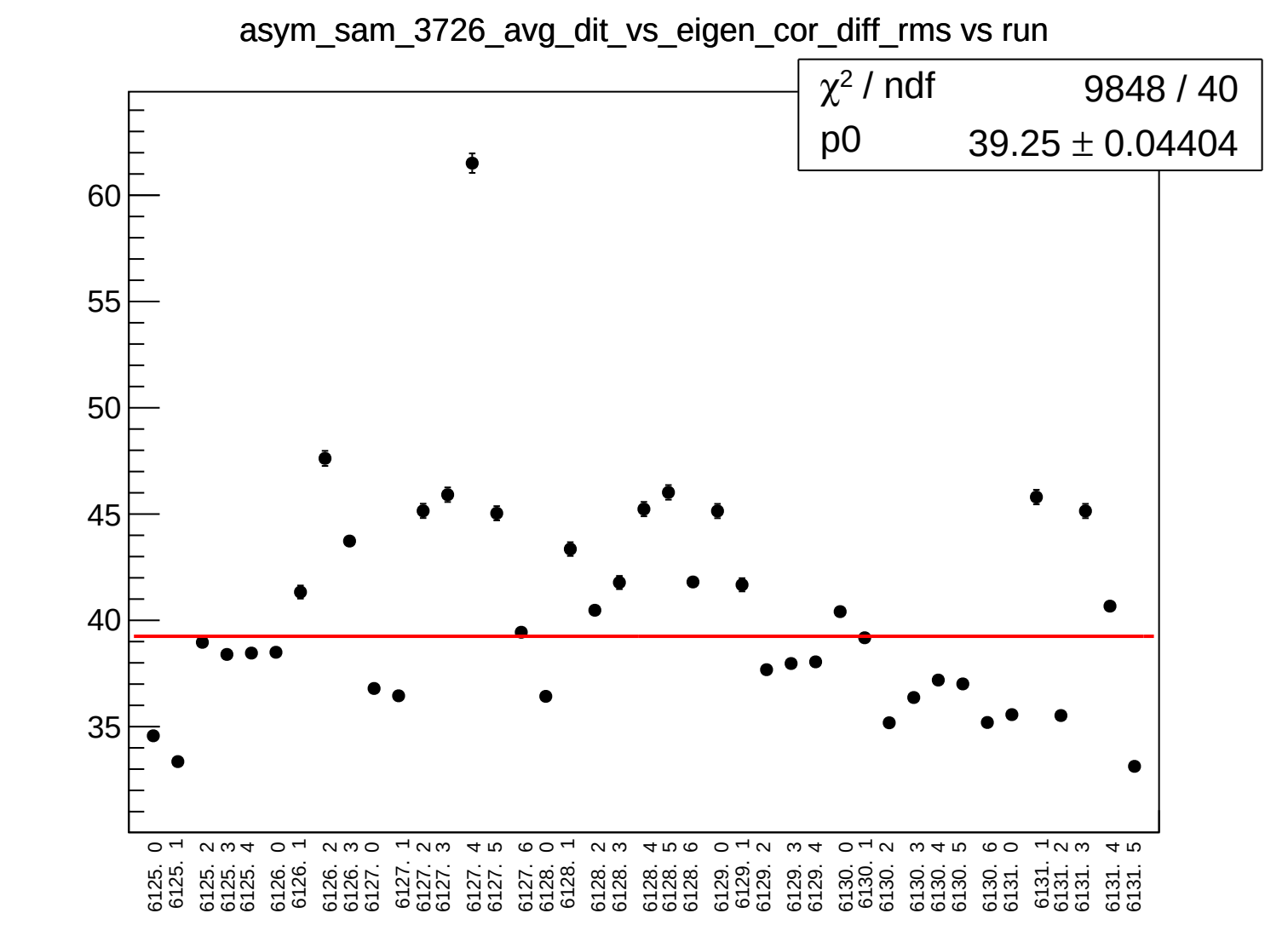

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.361e+05 / 40
p0 3.52e−11 ± 5.144e−14
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

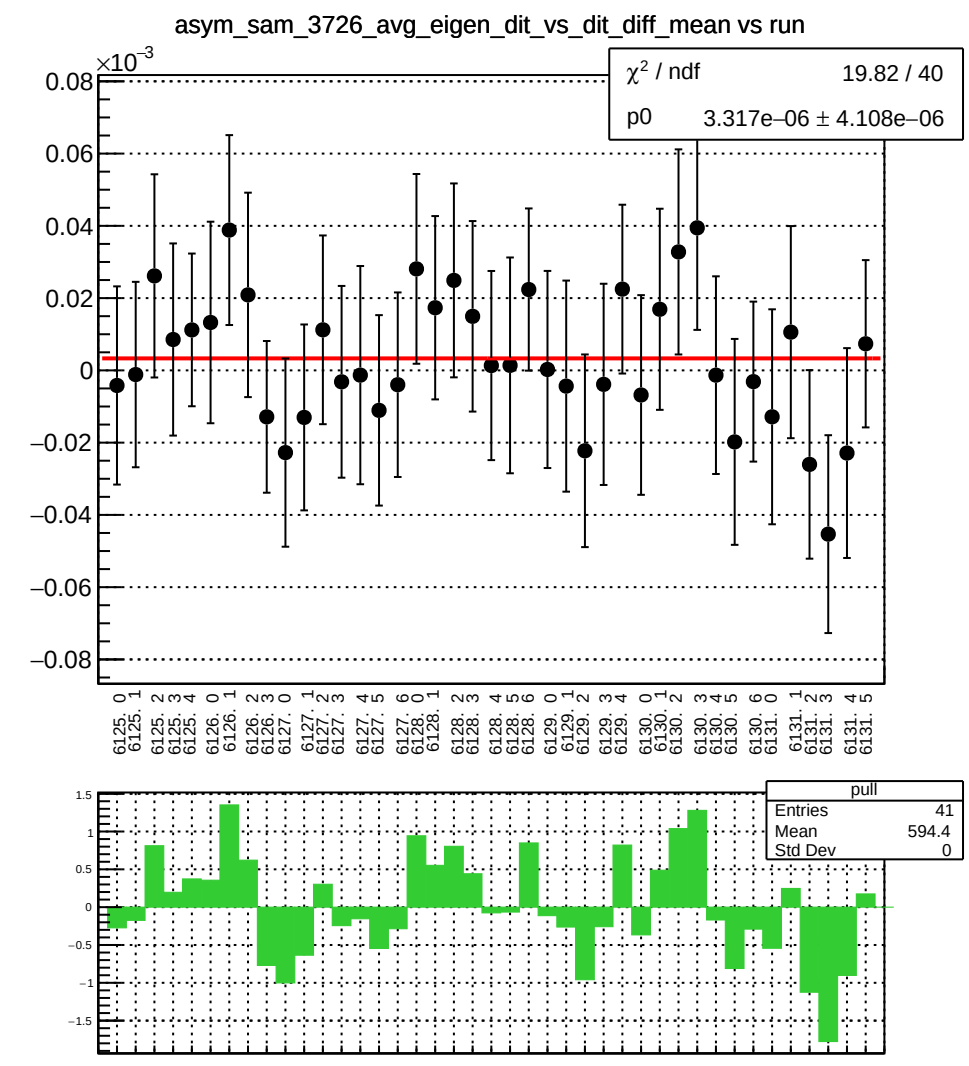

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 41.06 / 40
p0 0.05455 ± 0.06228
pull
Entries 41
Mean −55.03
Std Dev 0

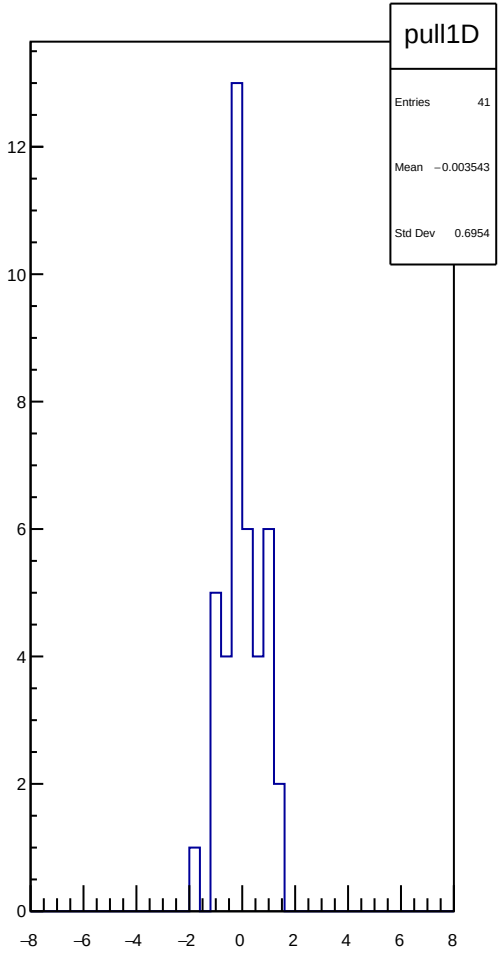

pull1D
Entries 41
Mean 0.04505
Std Dev 0.9997

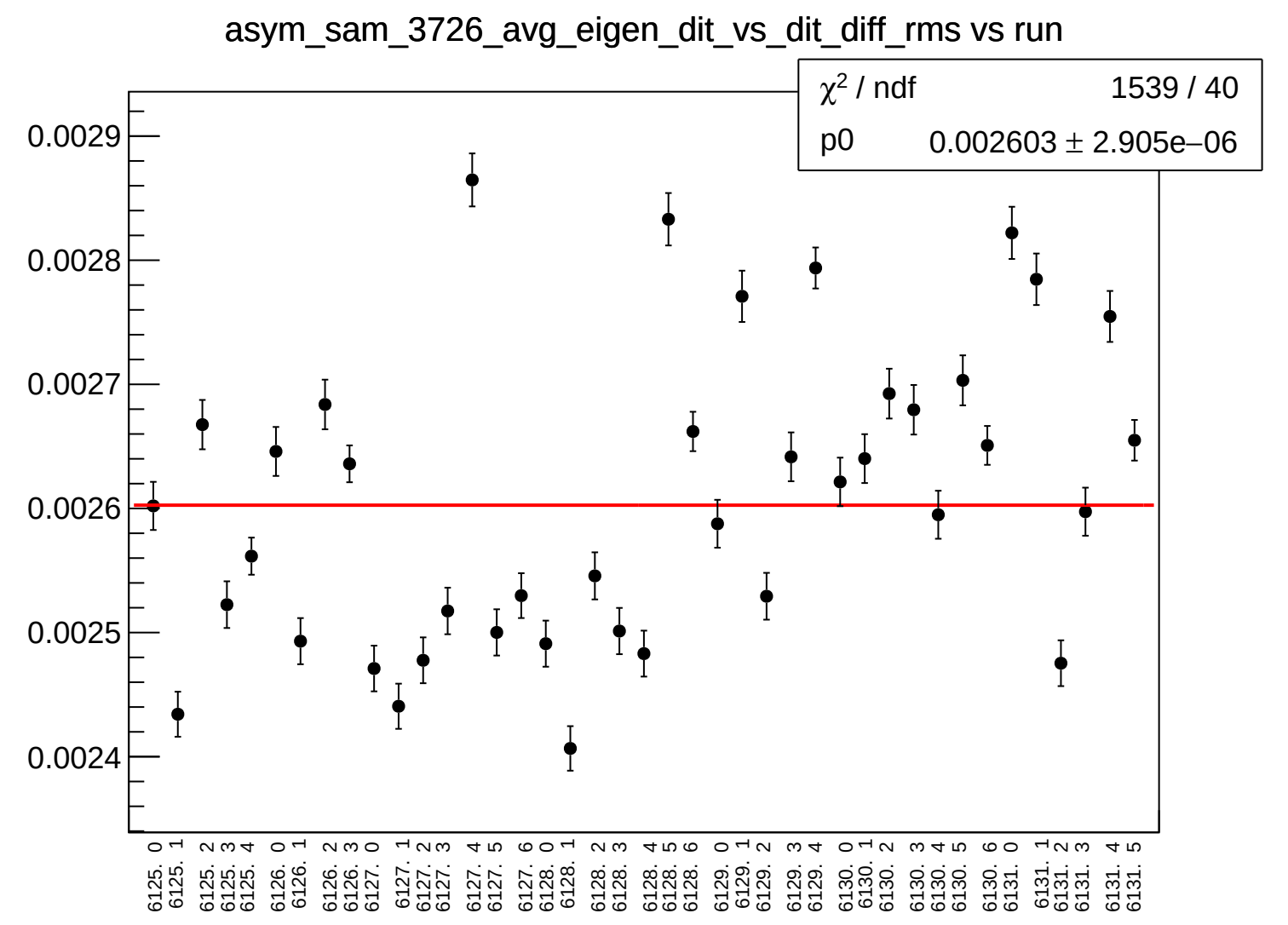

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9848 / 40
p0 39.25 ± 0.04404
60
55
50
45
40
35
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

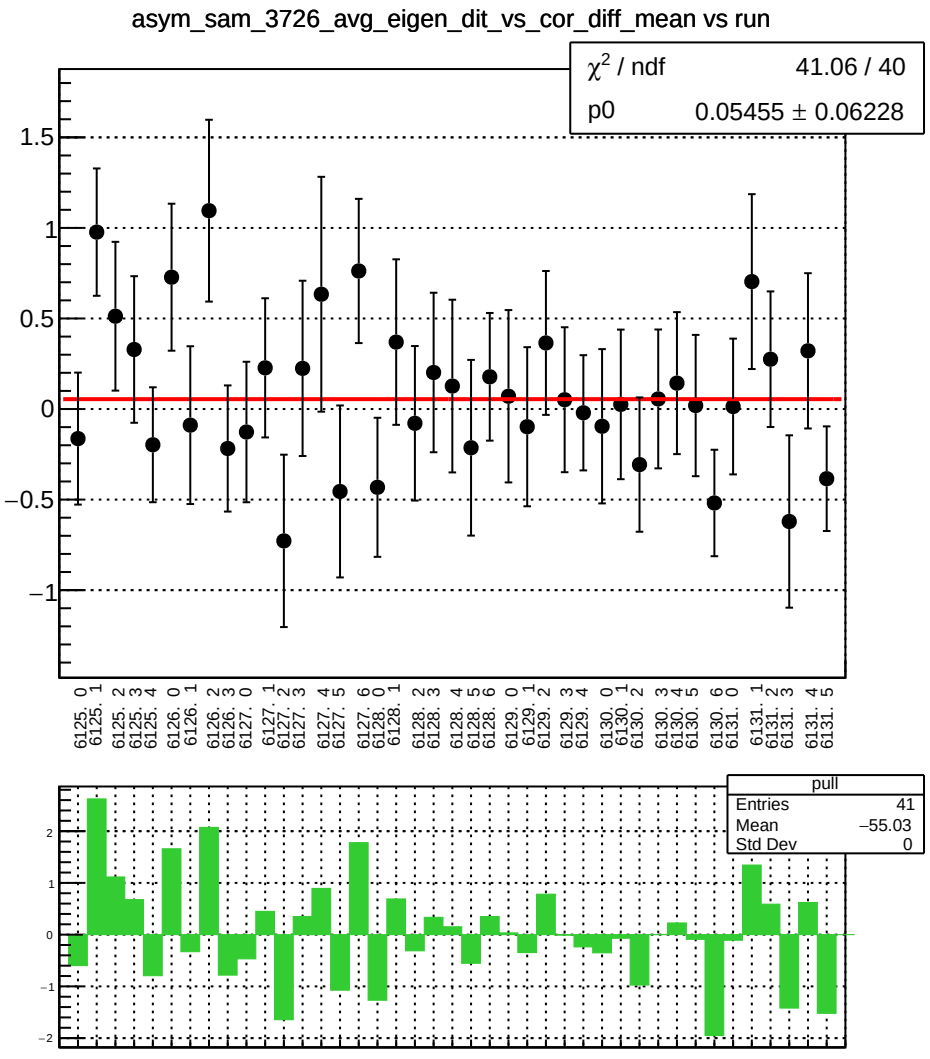

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.06 / 40
p0 0.05455 ± 0.06228
pull
Entries 41
Mean −55.03
Std Dev 0
pull1D
Entries 41
Mean 0.04505
Std Dev 0.9997

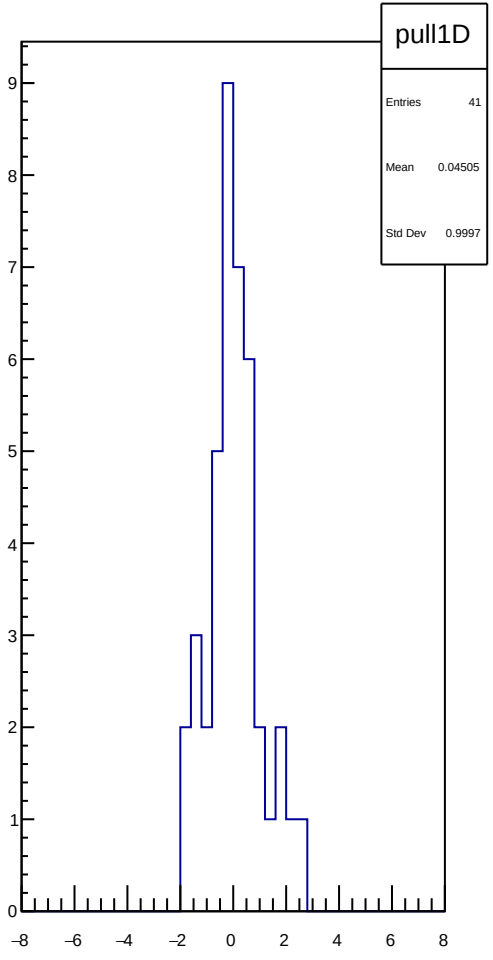

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9848 / 40
p0 39.25 ± 0.04404
60
55
50
45
40
35
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

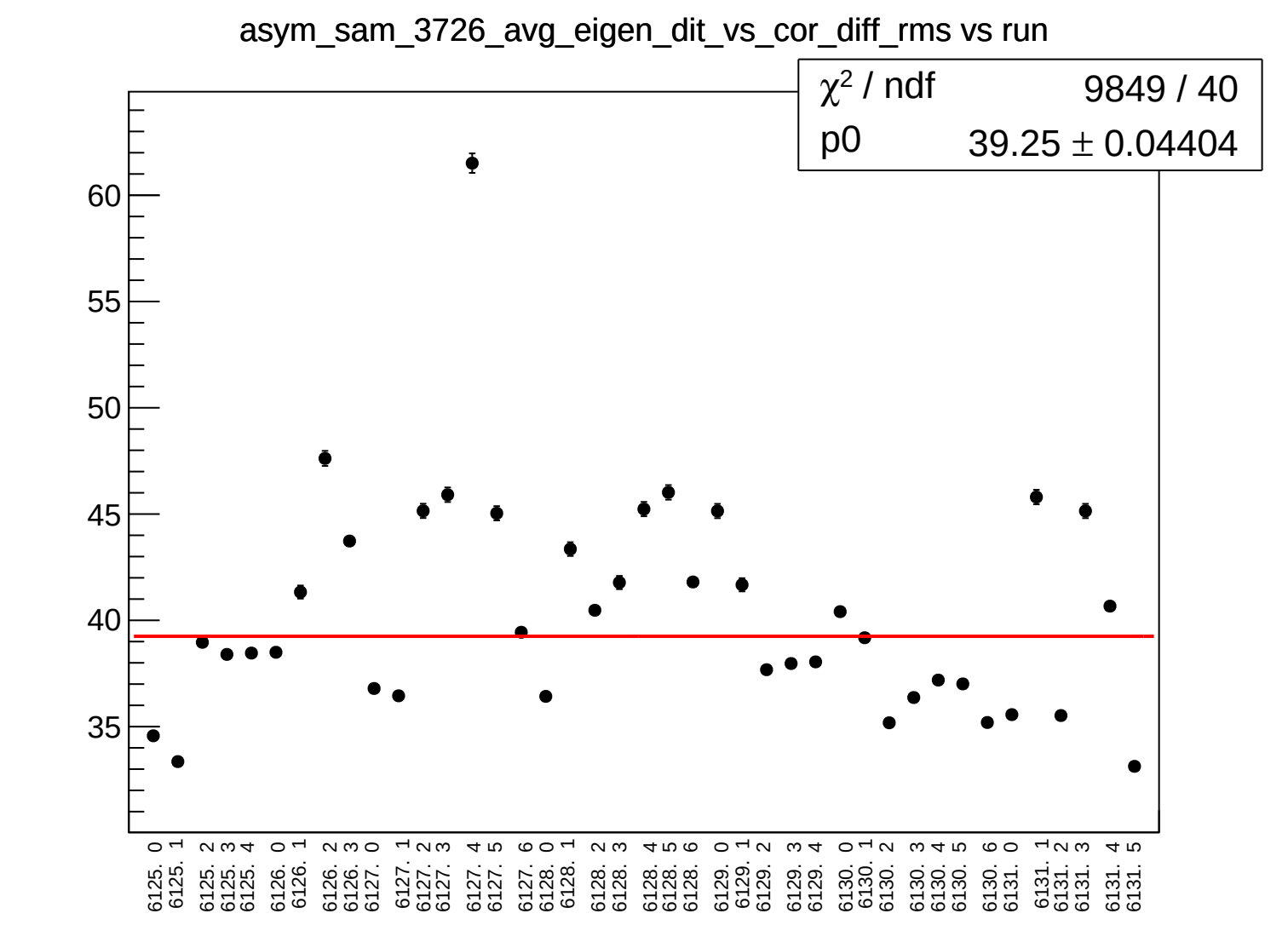

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 19.82 / 40
p0 3.317e−06 ± 4.108e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 594.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

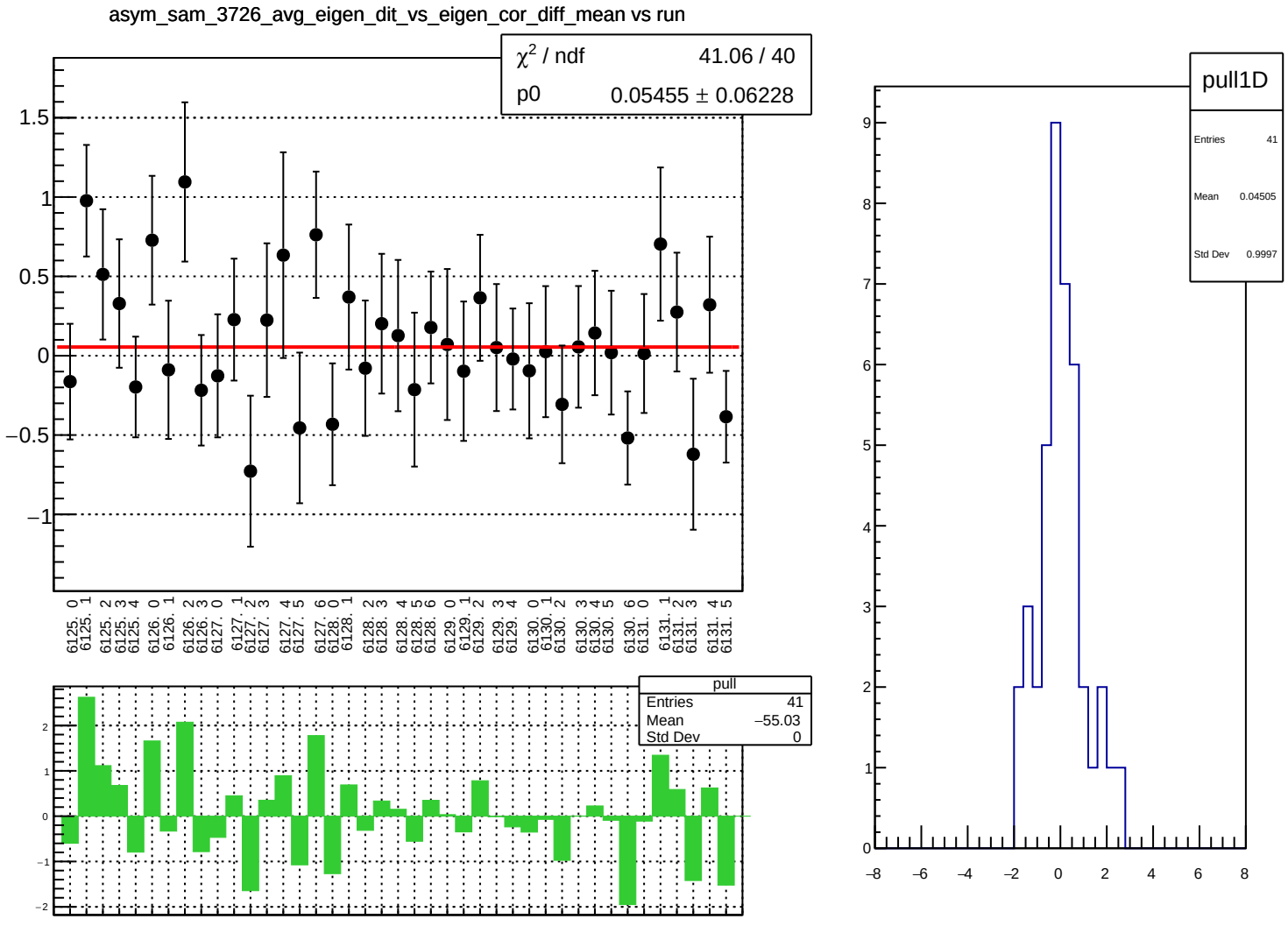

pull1D
Entries 41
Mean −0.003543
Std Dev 0.6954
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

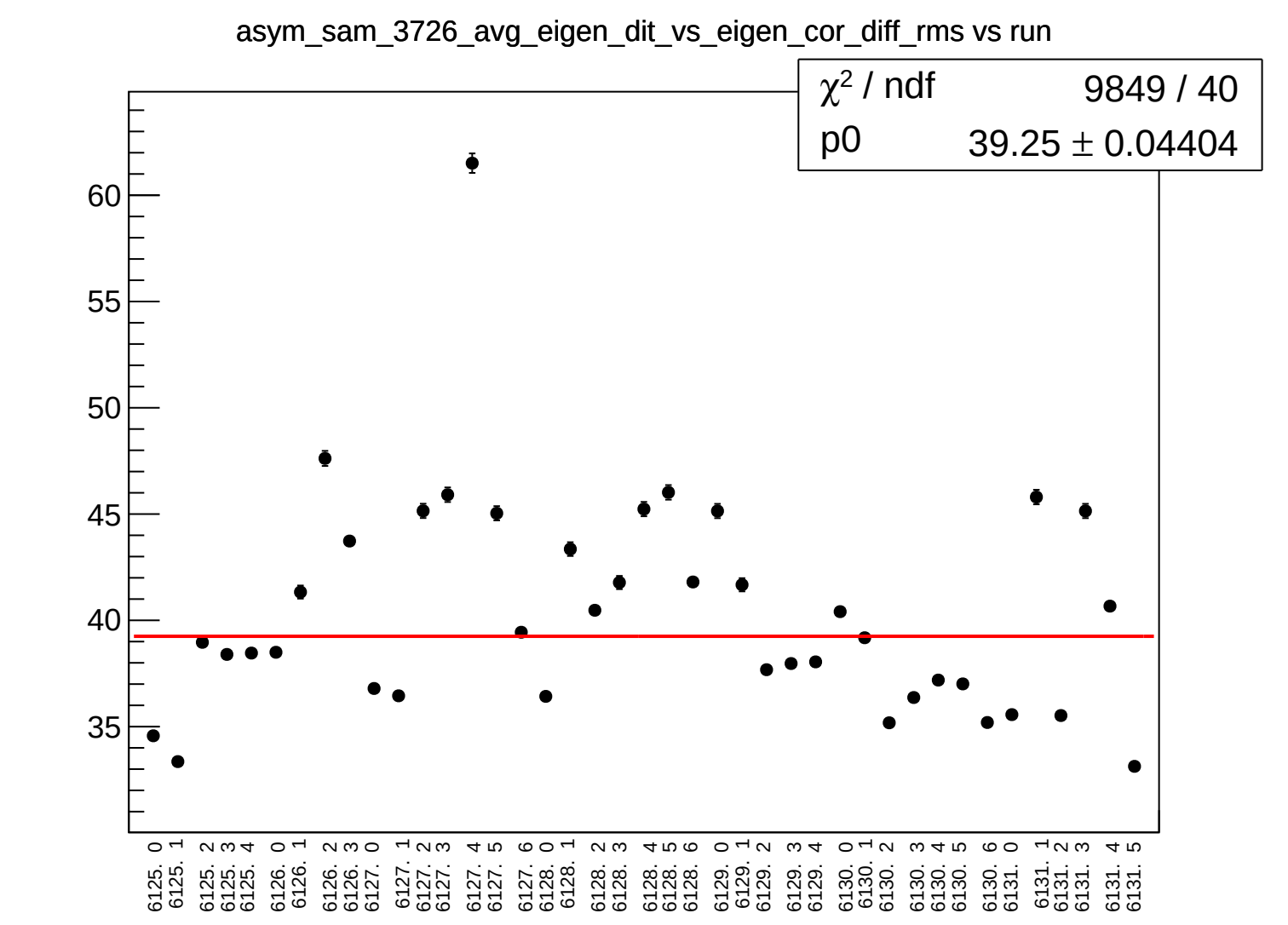

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1539 / 40
p0 0.002603 ± 2.905e−06
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

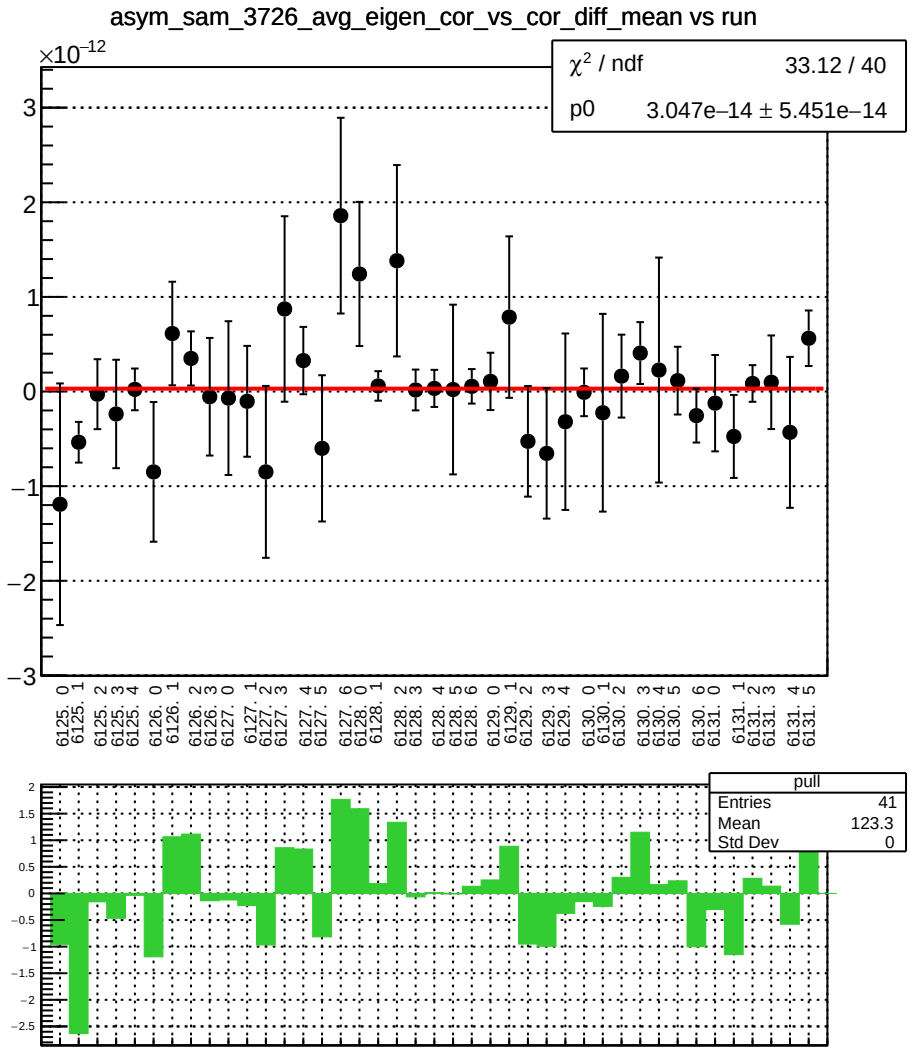

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 41.06 / 40
p0 0.05455 ± 0.06228
pull
Entries 41
Mean −55.03
Std Dev 0

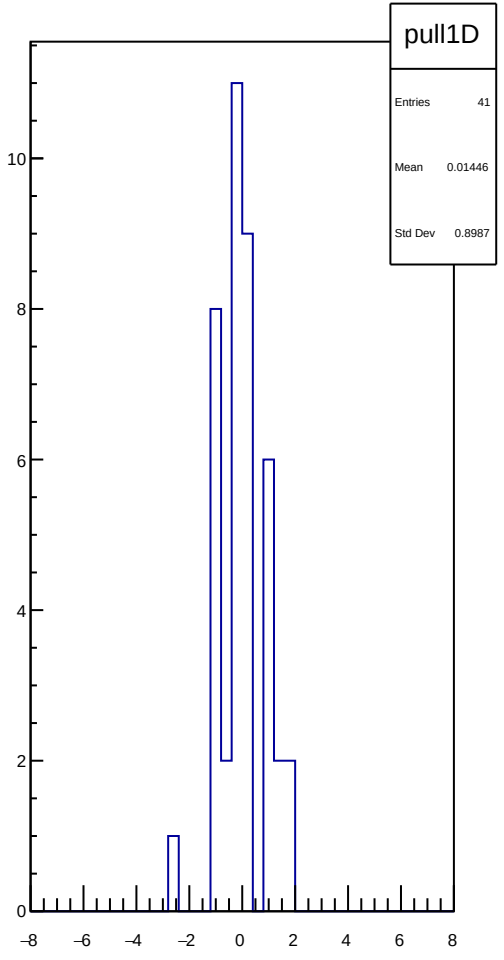

pull1D
Entries 41
Mean 0.04505
Std Dev 0.9997

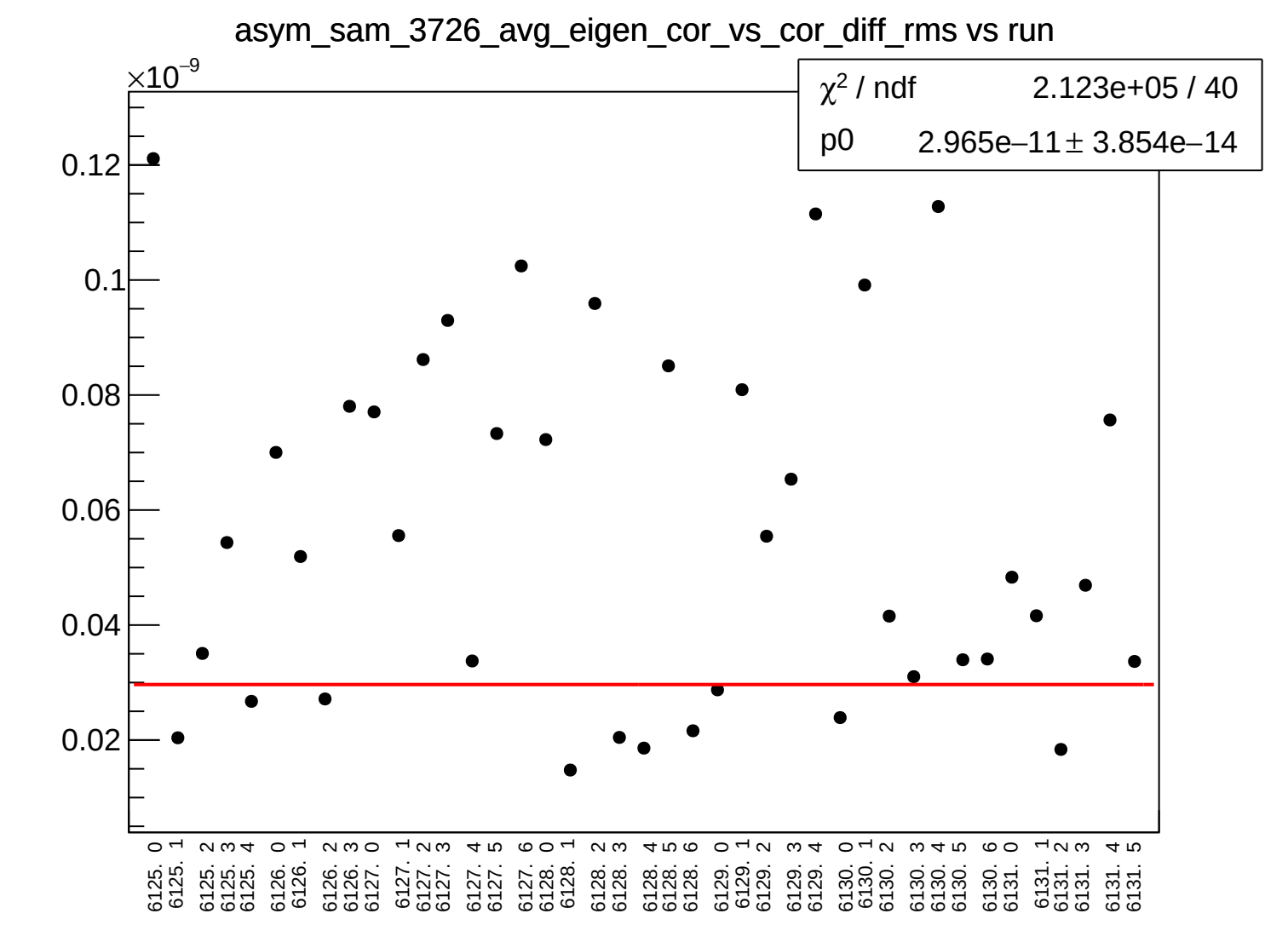

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9849 / 40
p0 39.25 ± 0.04404
60
55
50
45
40
35
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

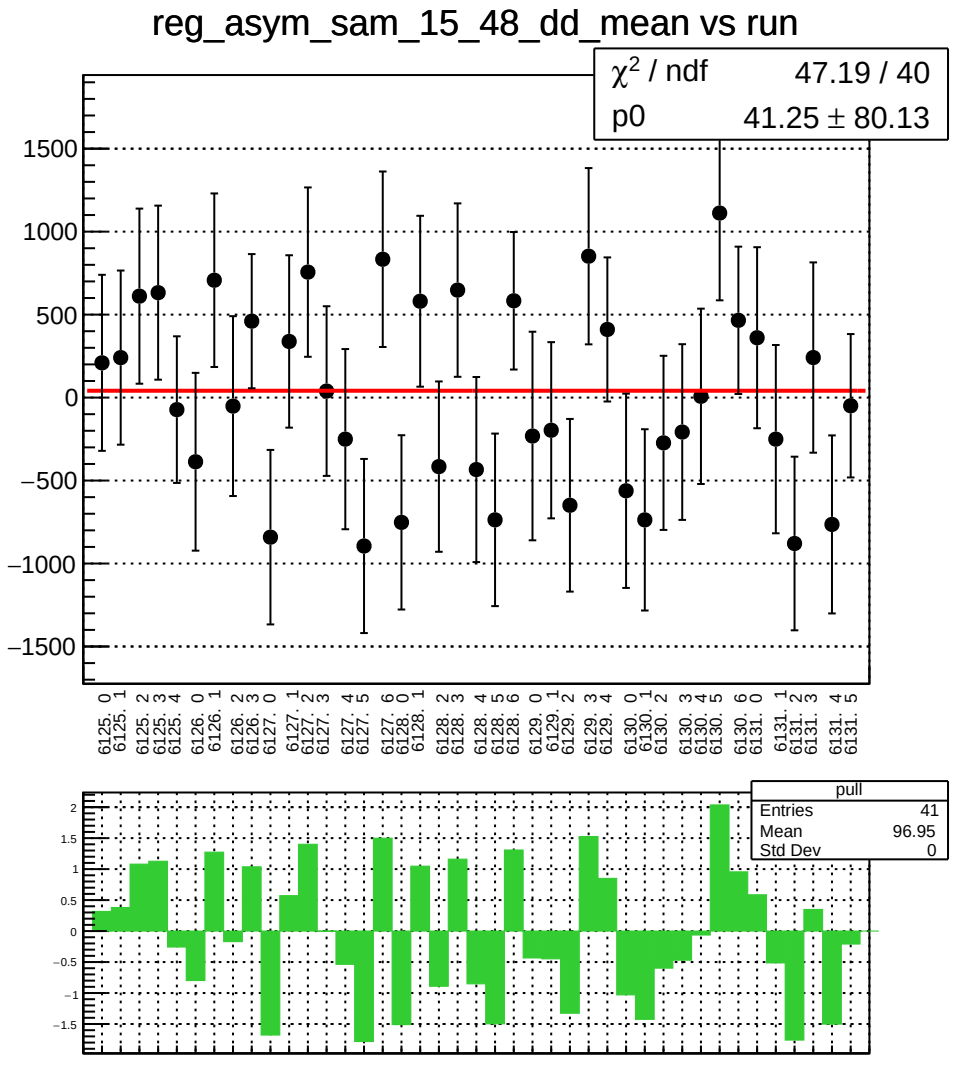

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.06 / 40
p0 0.05455 ± 0.06228
1.5
1
0.5
0
−0.5
−1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −55.03
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.04505
Std Dev 0.9997
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

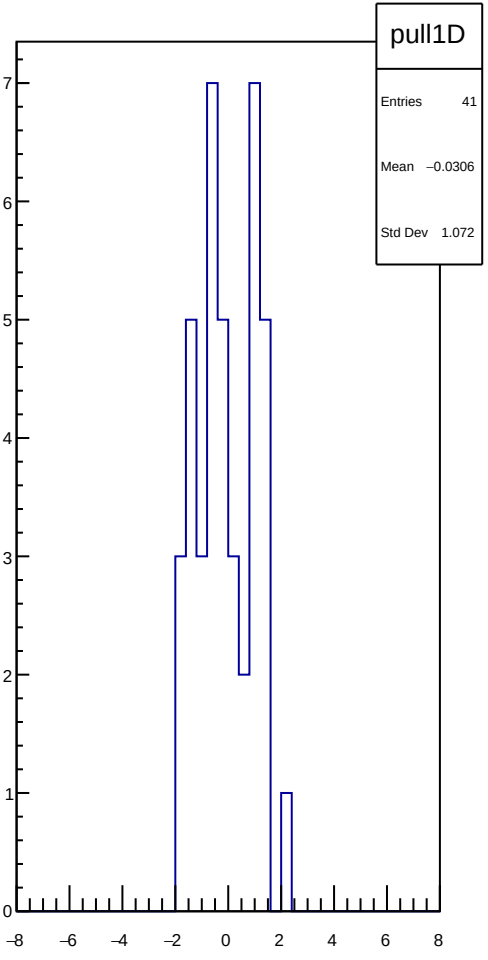

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9849 / 40
p0 39.25 ± 0.04404
60
55
50
45
40
35
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

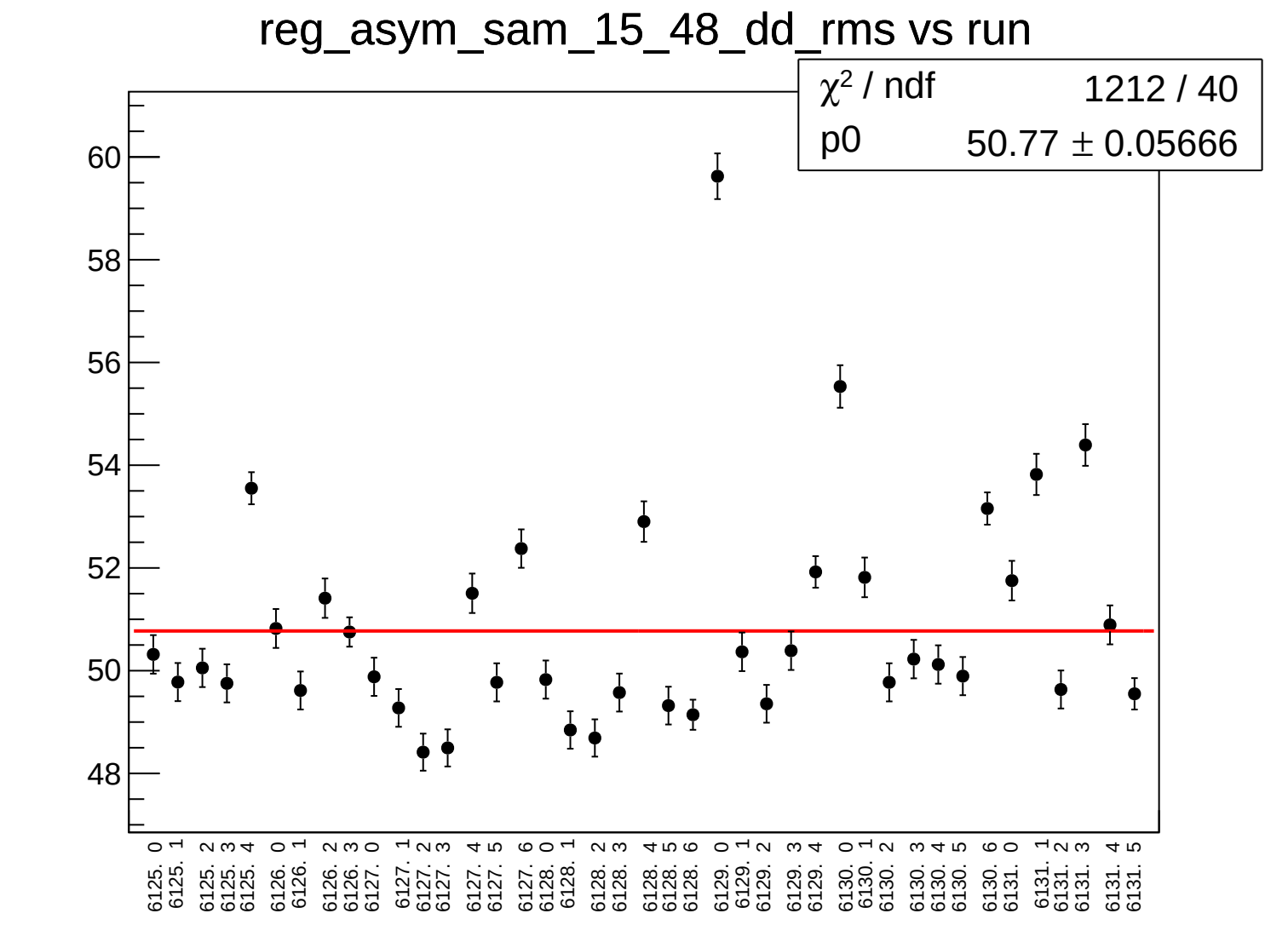

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.12 / 40
p0 3.047e−14 ± 5.451e−14
pull
Entries 41
Mean 123.3
Std Dev 0

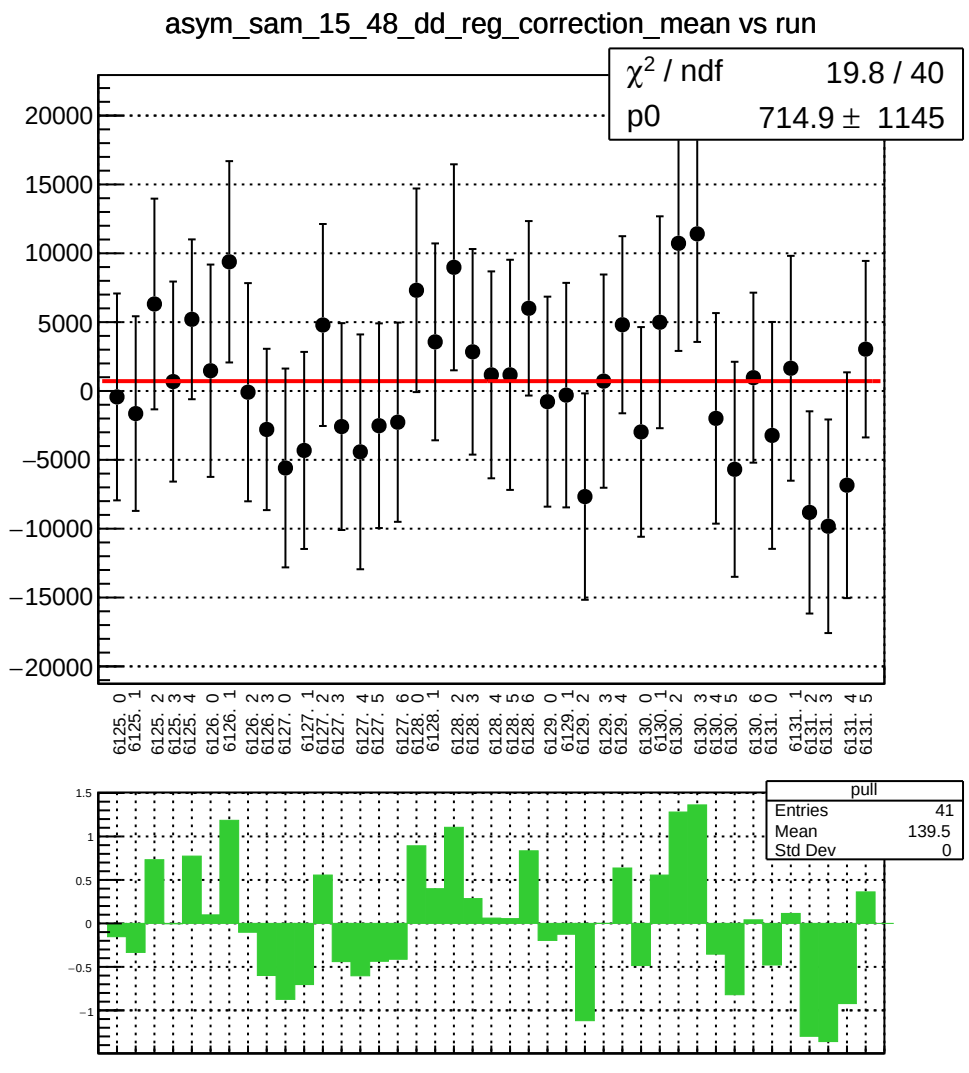

pull1D
Entries 41
Mean 0.01446
Std Dev 0.8987

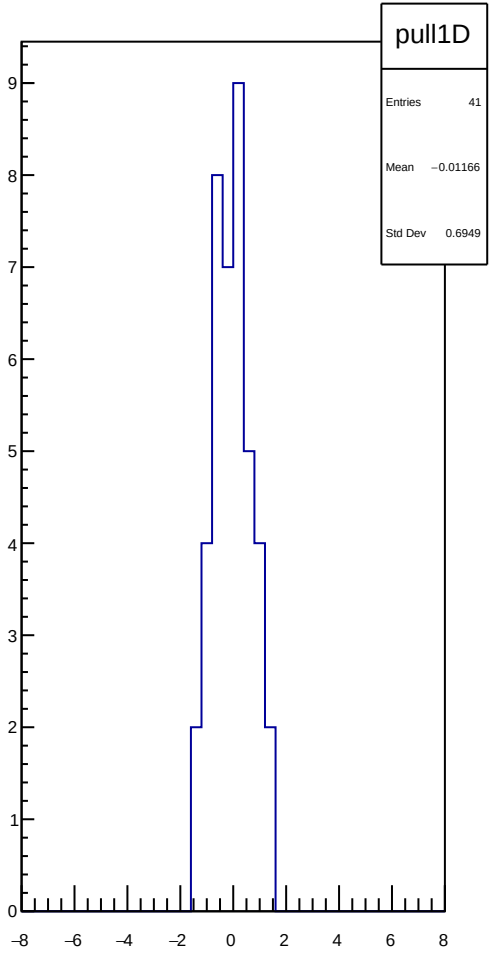

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.123e+05 / 40
p0 2.965e−11 ± 3.854e−14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

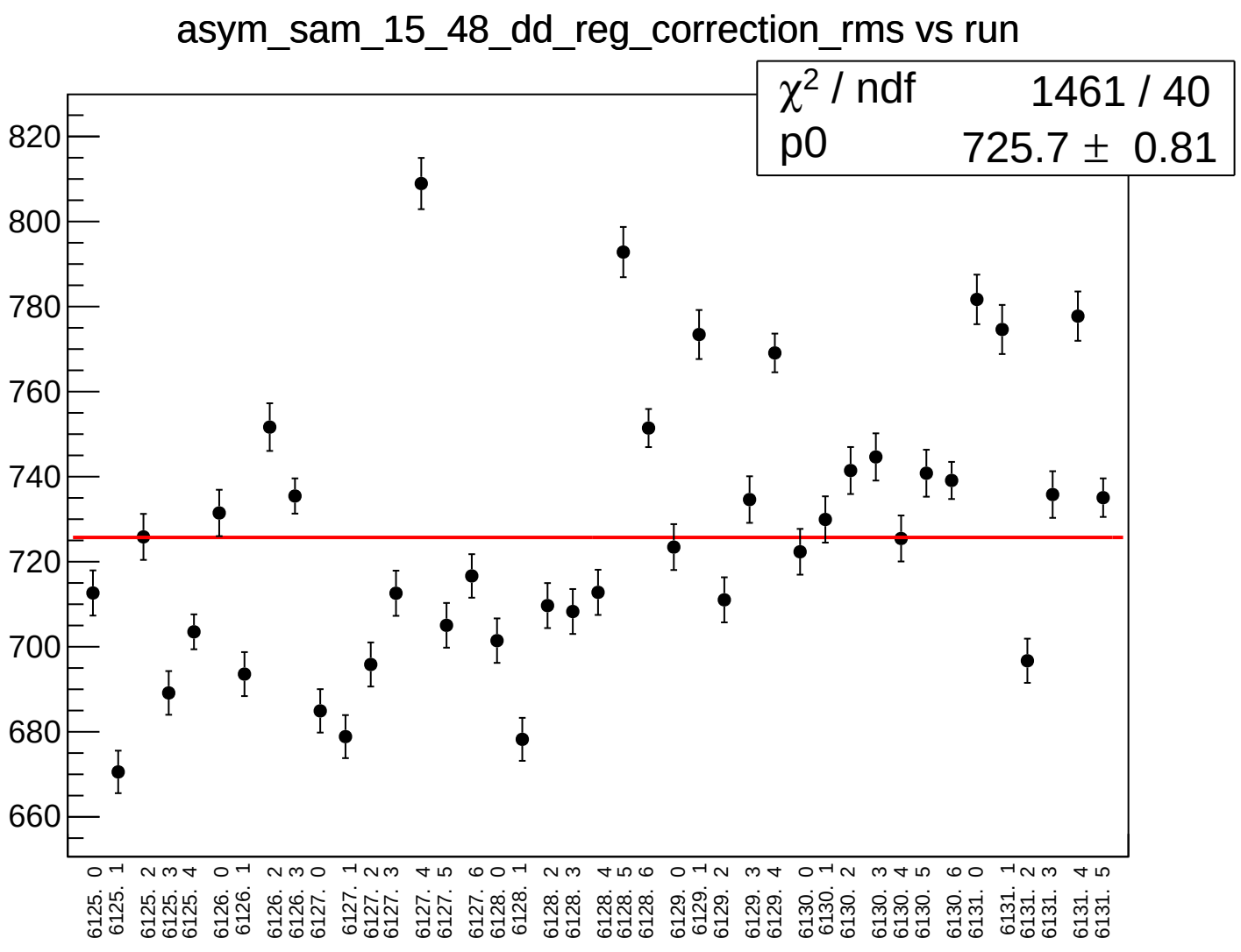

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 47.19 / 40
p0 41.25 ± 80.13
1500
1000
500
0
−500
−1000
−1500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 96.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

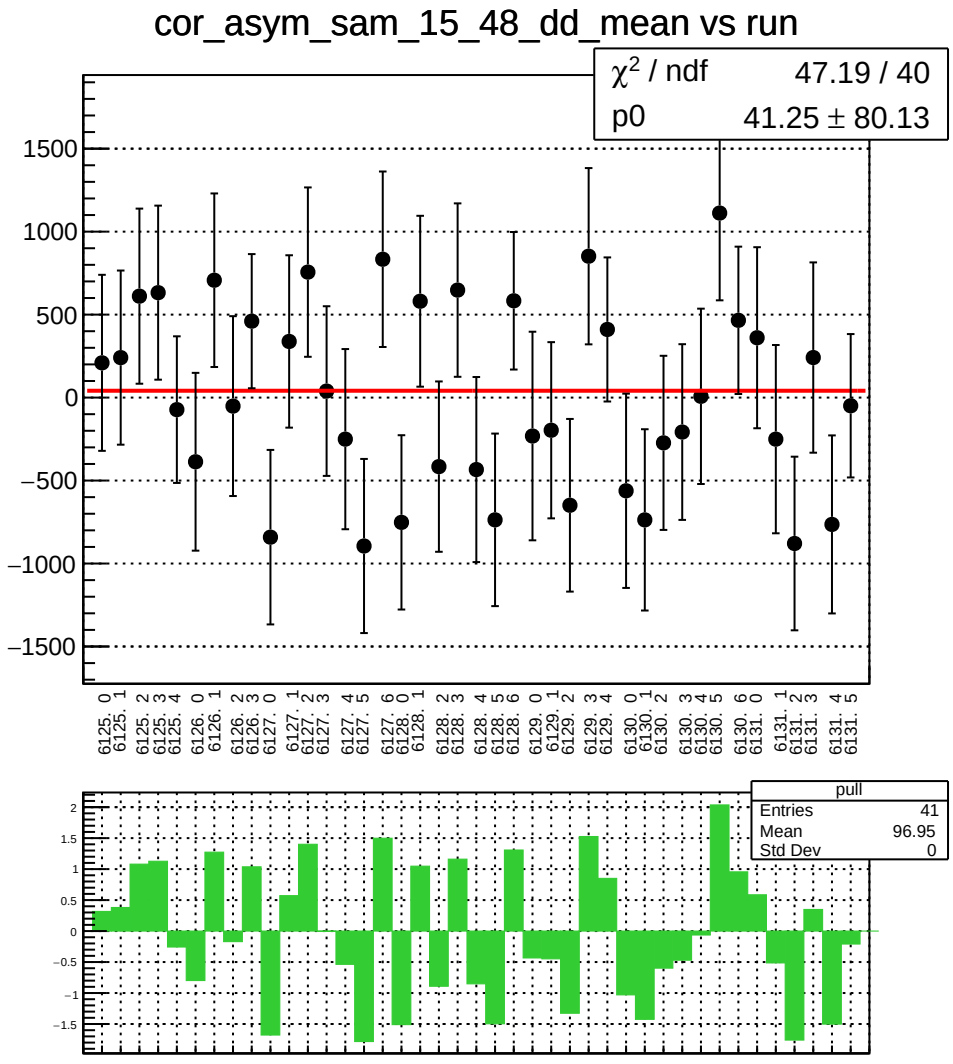

pull1D
Entries 41
Mean −0.0306
Std Dev 1.072
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

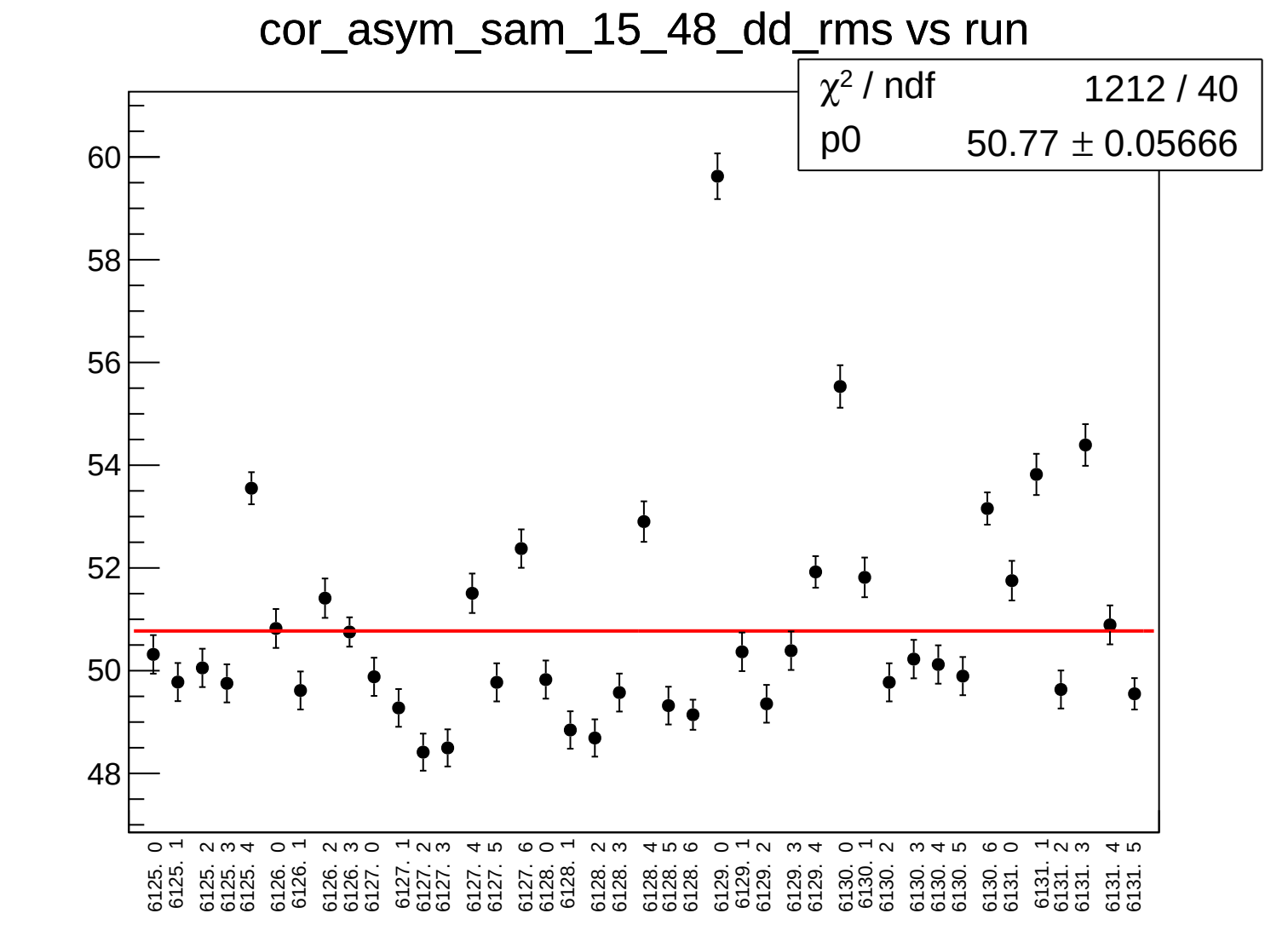

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1212 / 40
p0 50.77 ± 0.05666
60
58
56
54
52
50
48
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

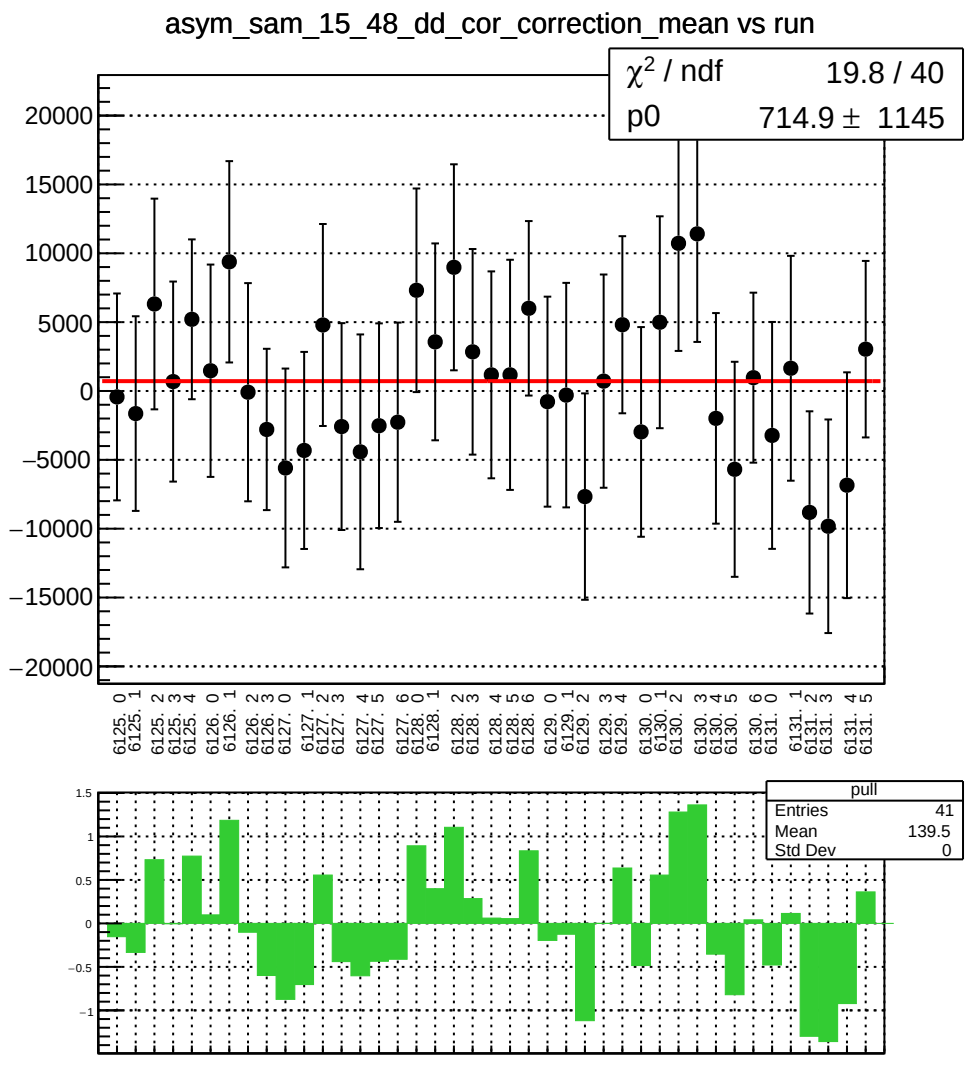

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 19.8 / 40
p0 714.9 ± 1145
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 139.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1

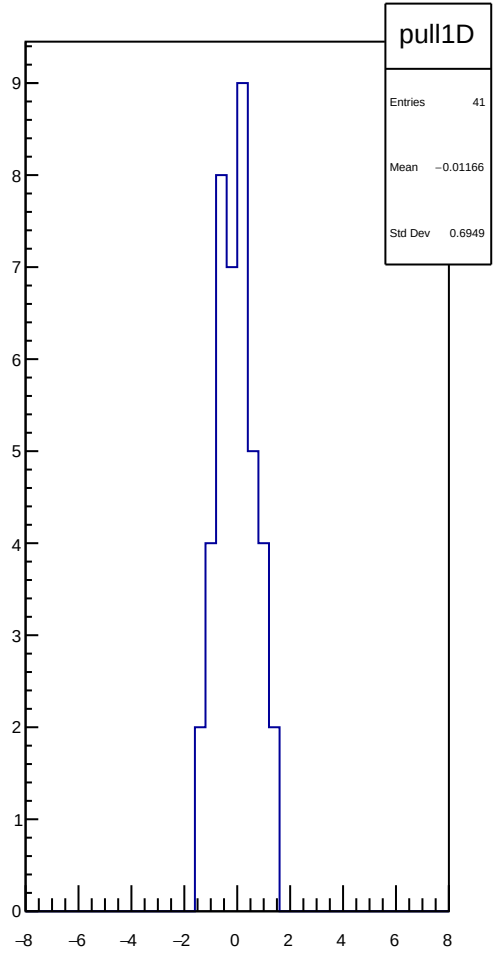

pull1D
Entries 41
Mean −0.01166
Std Dev 0.6949
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 1461 / 40
p0 725.7 ± 0.81
820
800
780
760
740
720
700
680
660
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 47.19 / 40
p0 41.25 ± 80.13
1500
1000
500
0
−500
−1000
−1500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 96.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.0306
Std Dev 1.072
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1212 / 40
p0 50.77 ± 0.05666
60
58
56
54
52
50
48
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 19.8 / 40
p0 714.9 ± 1145
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 139.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 41
Mean −0.01166
Std Dev 0.6949
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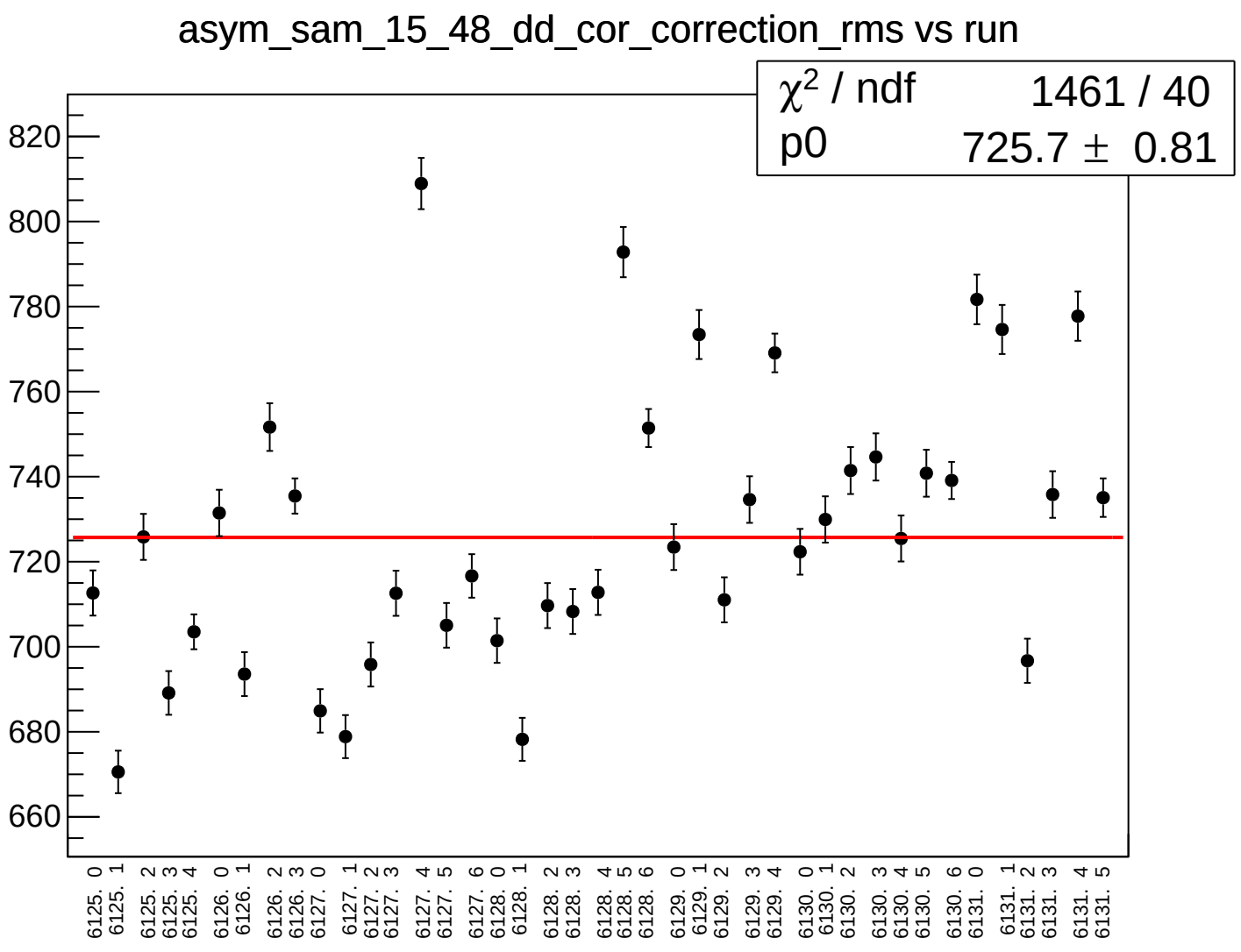
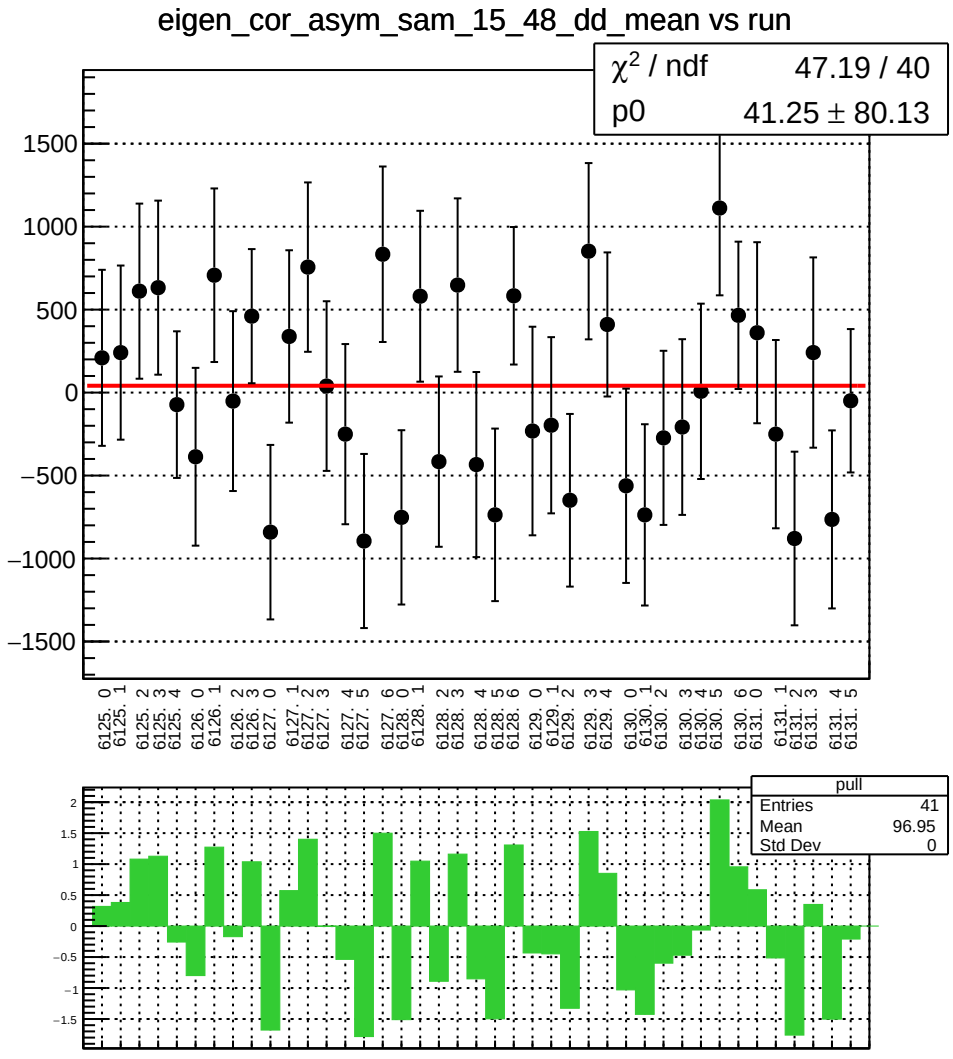
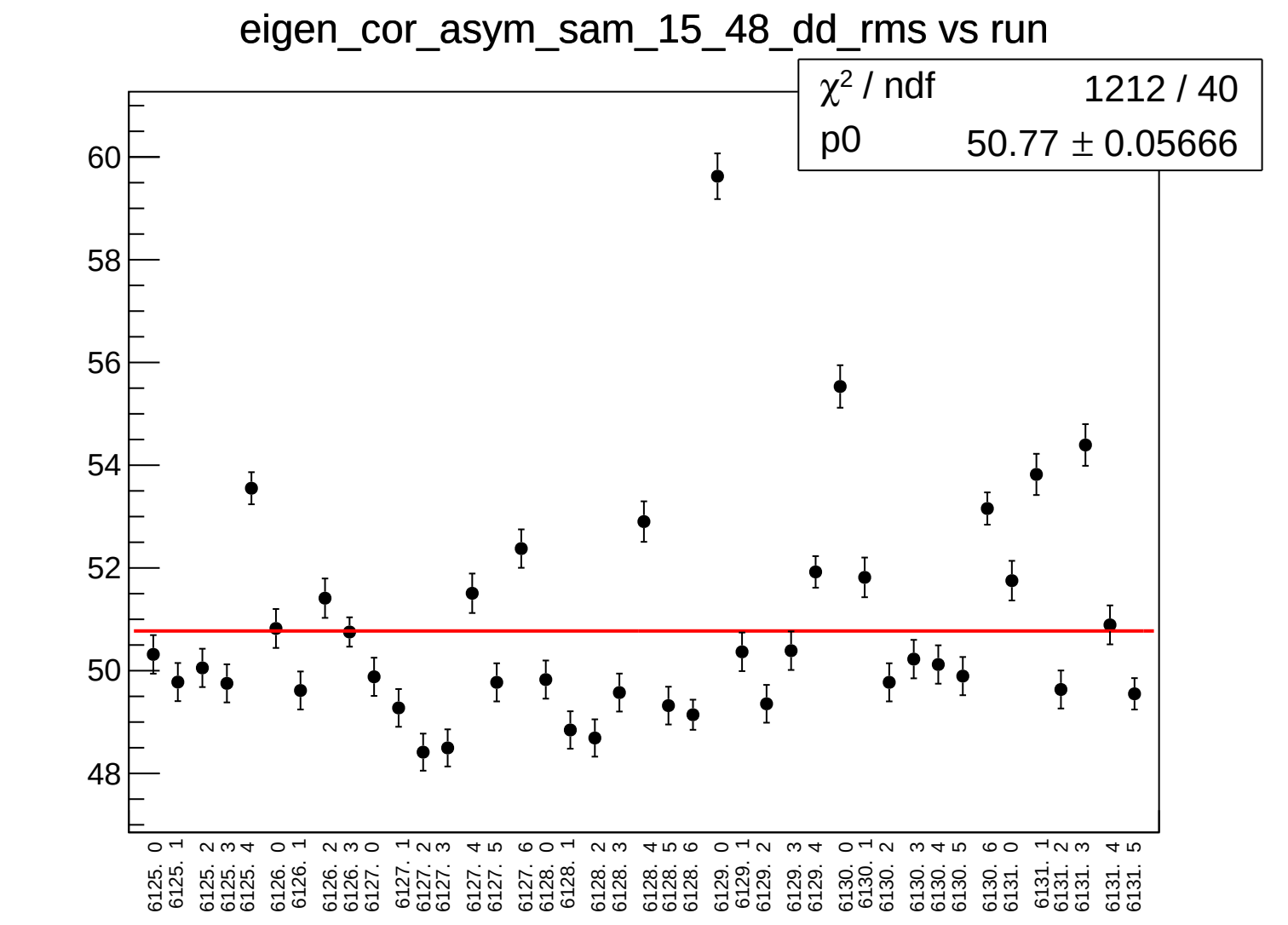
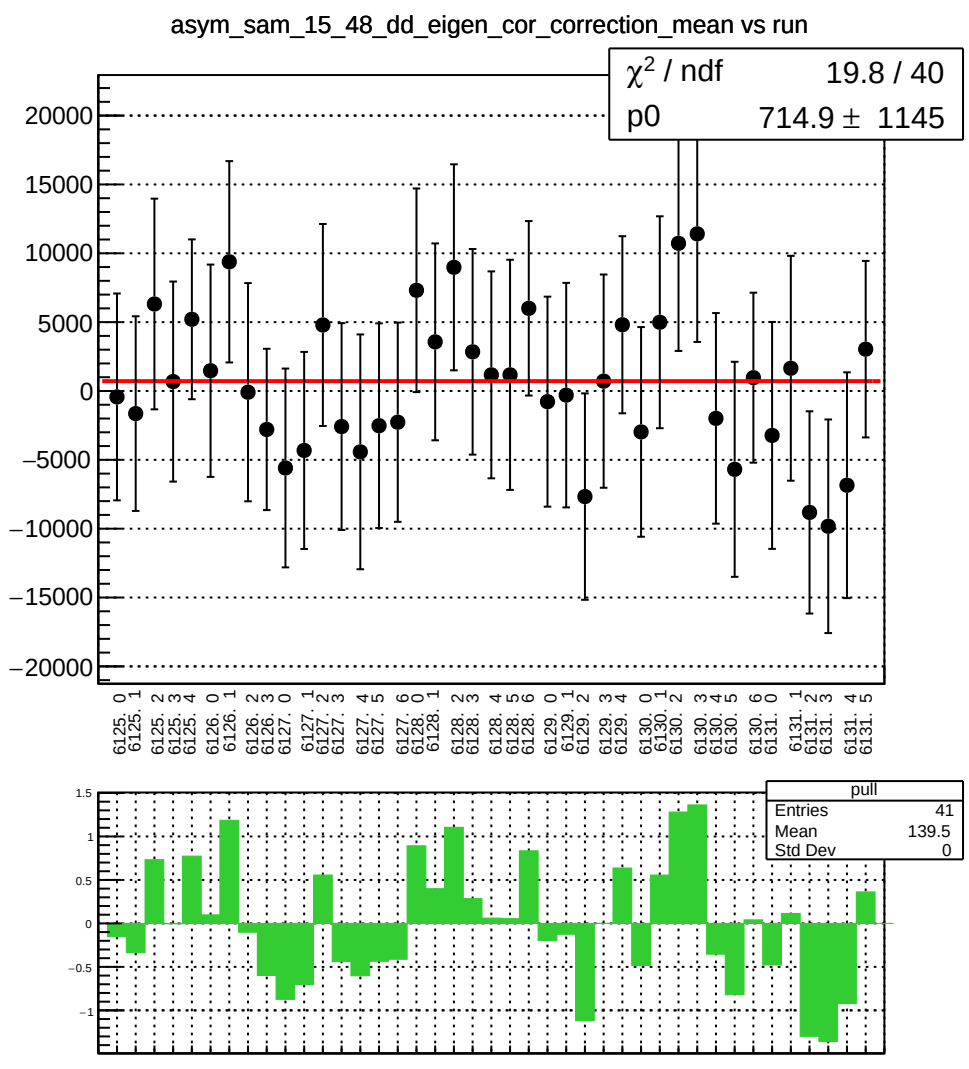
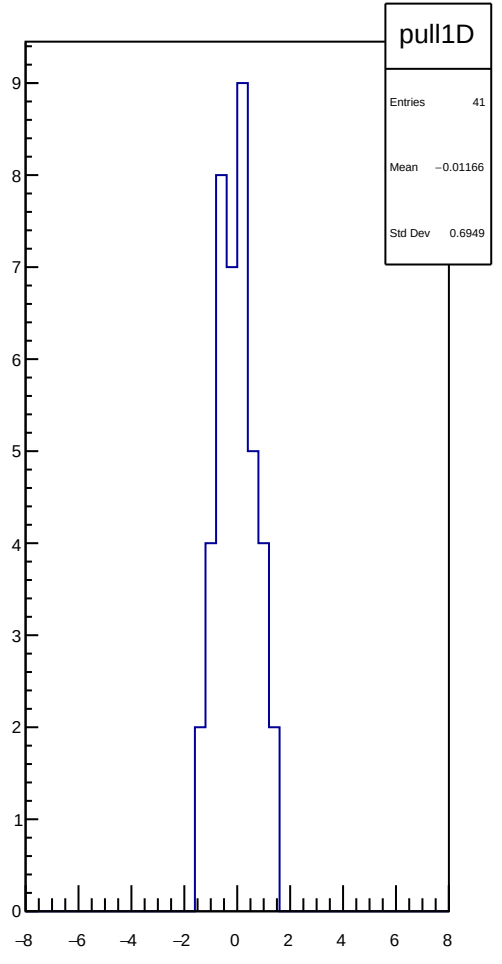
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

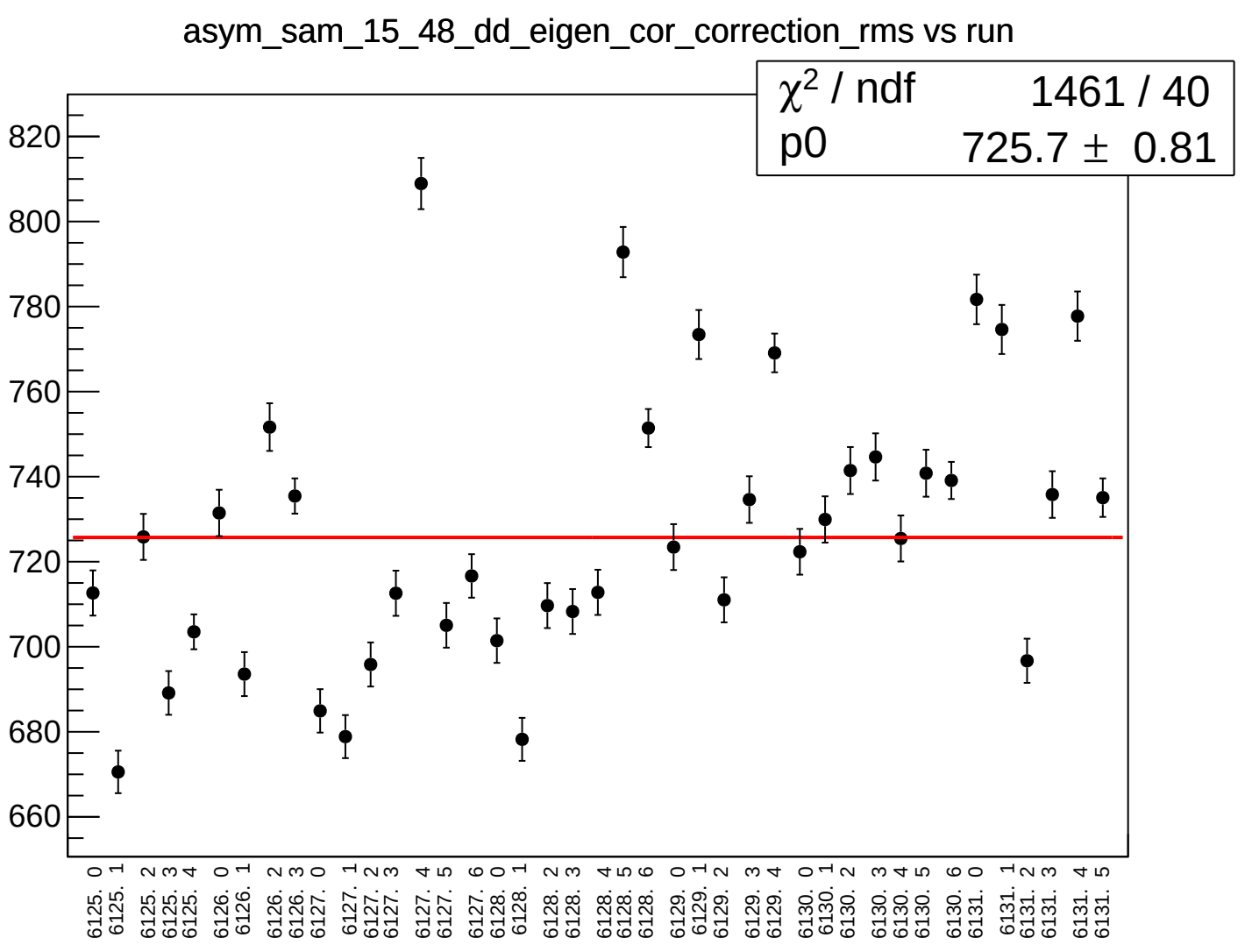

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 1461 / 40
p0 725.7 ± 0.81
820
800
780
760
740
720
700
680
660
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

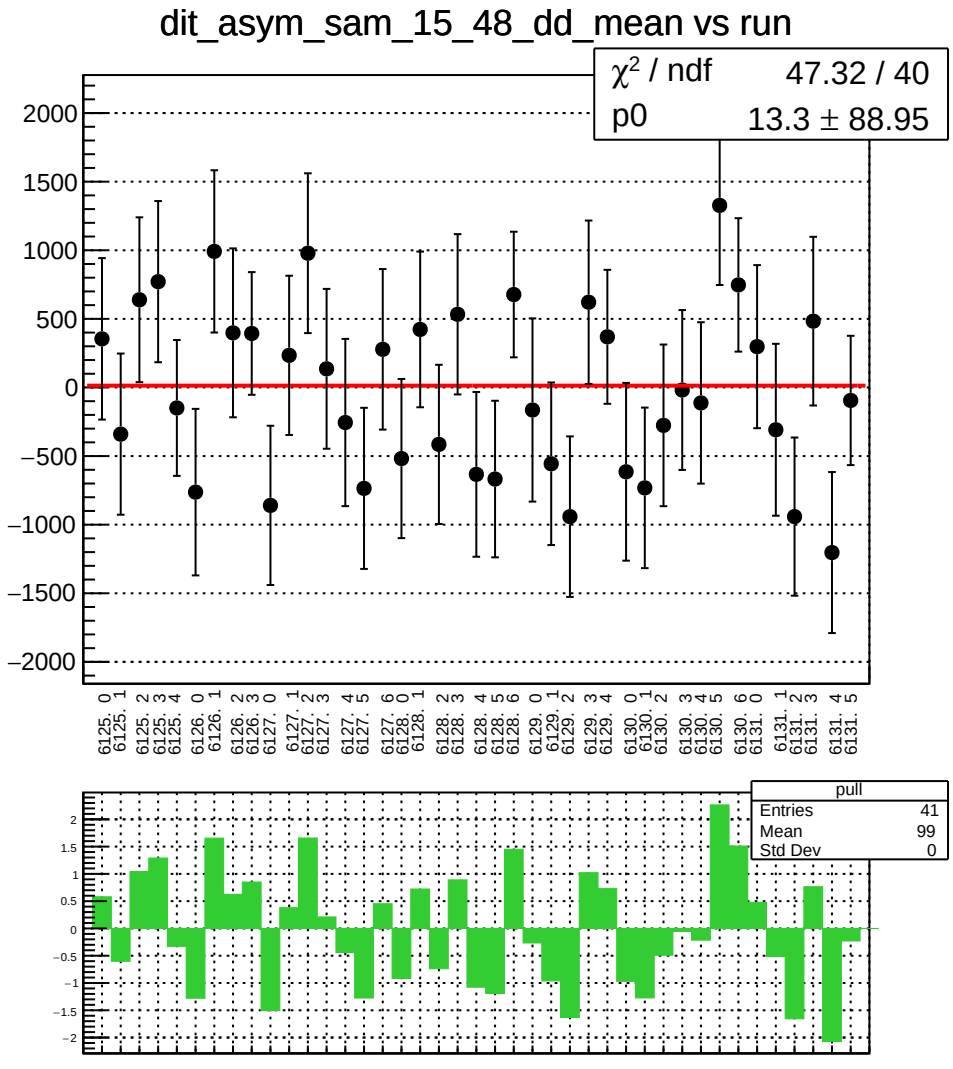

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 47.19 / 40
p0 41.25 ± 80.13
1500
1000
500
0
−500
−1000
−1500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 96.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.0306
Std Dev 1.072
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

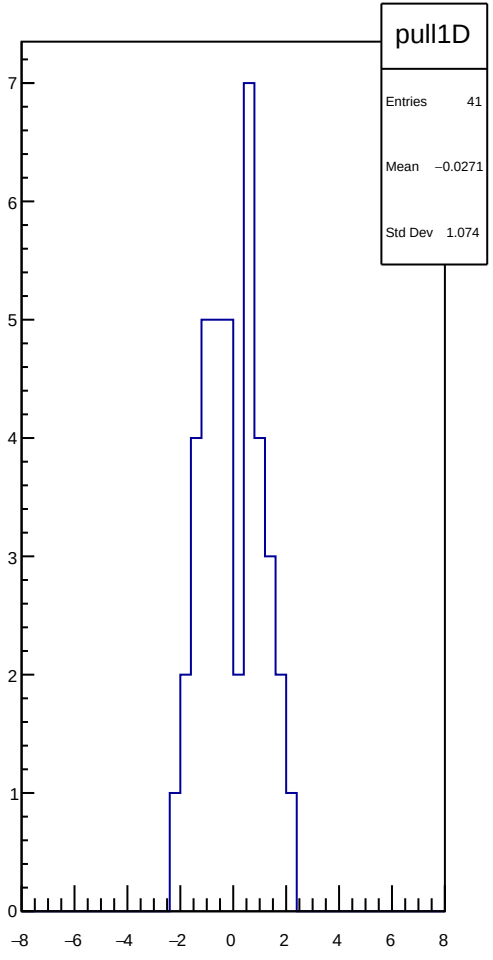

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1212 / 40
p0 50.77 ± 0.05666
60
58
56
54
52
50
48
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

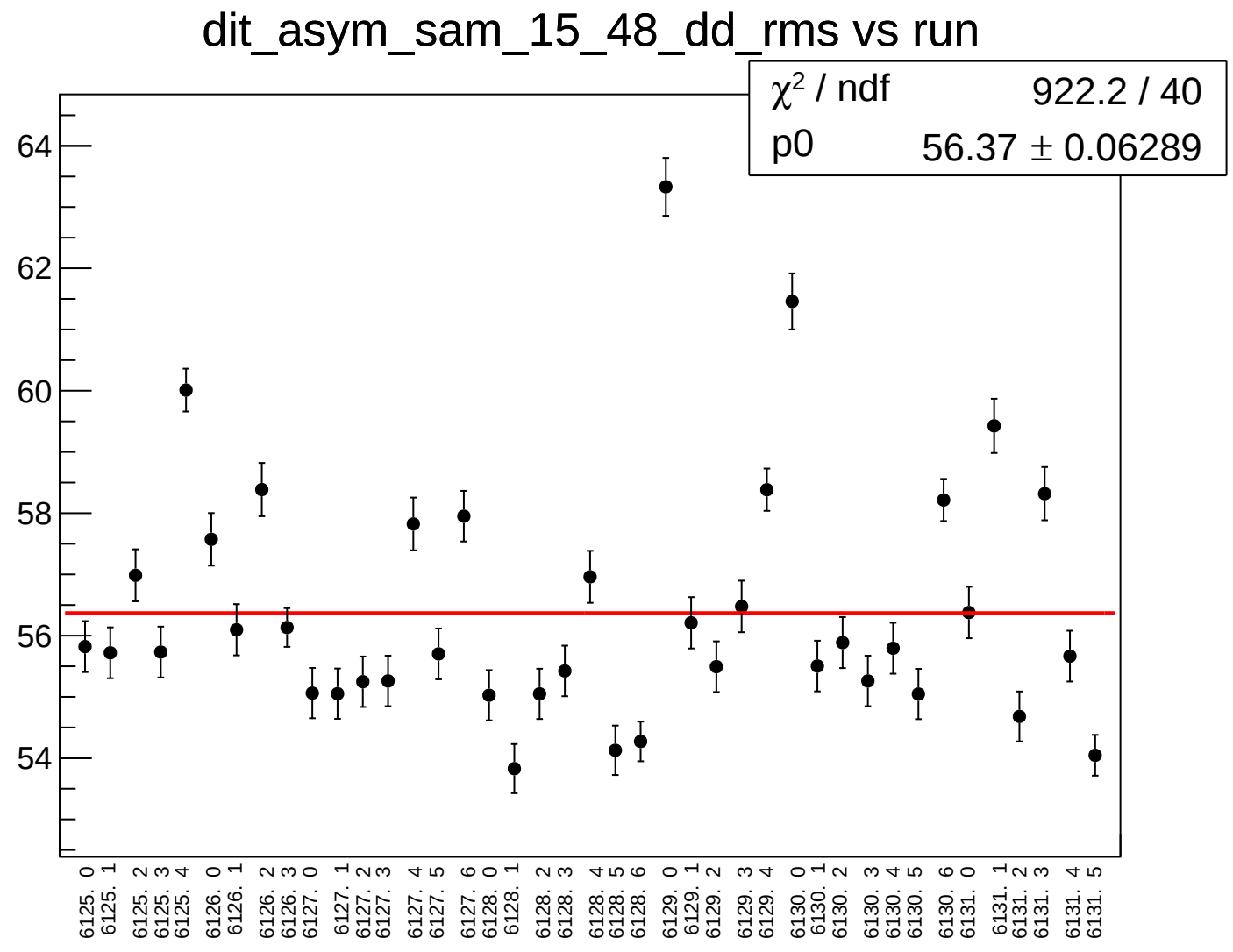

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 19.8 / 40
p0 714.9 ± 1145
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 139.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1

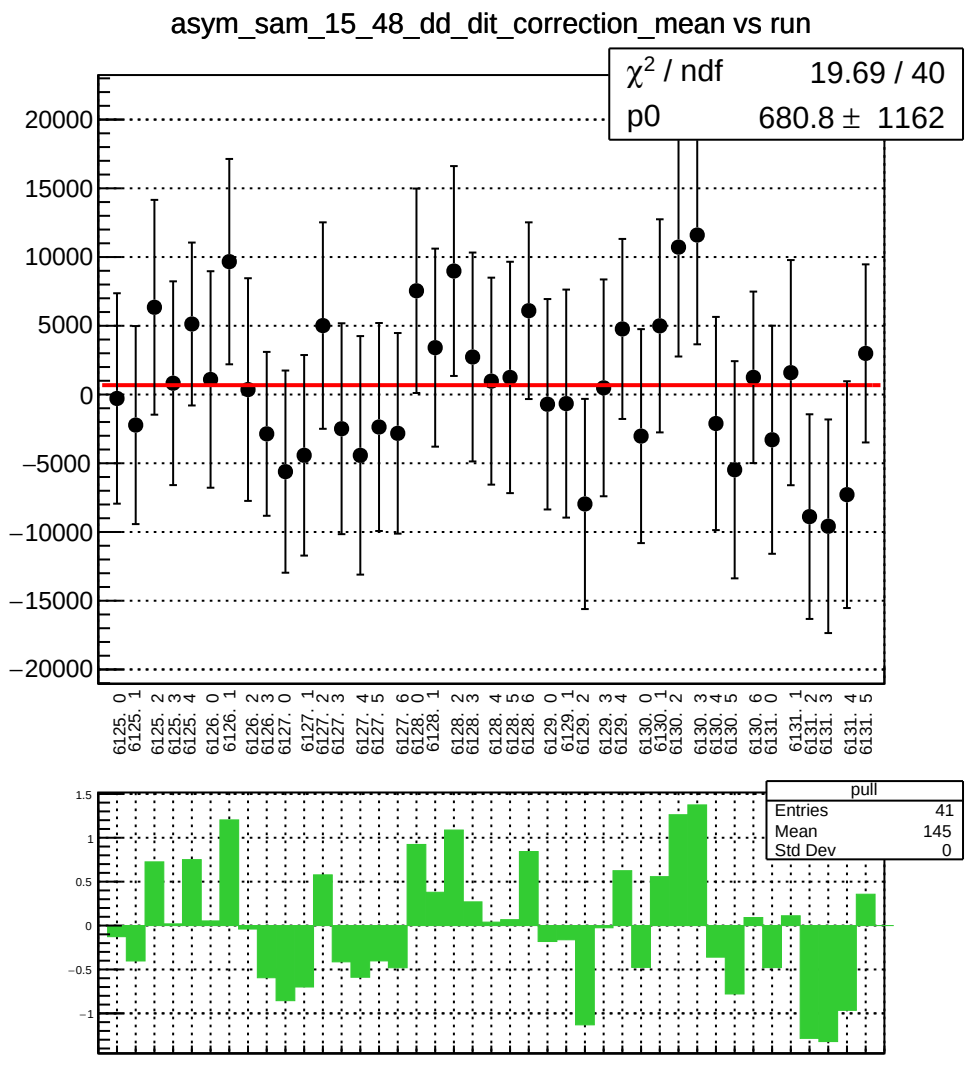

pull1D
Entries 41
Mean −0.01166
Std Dev 0.6949
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

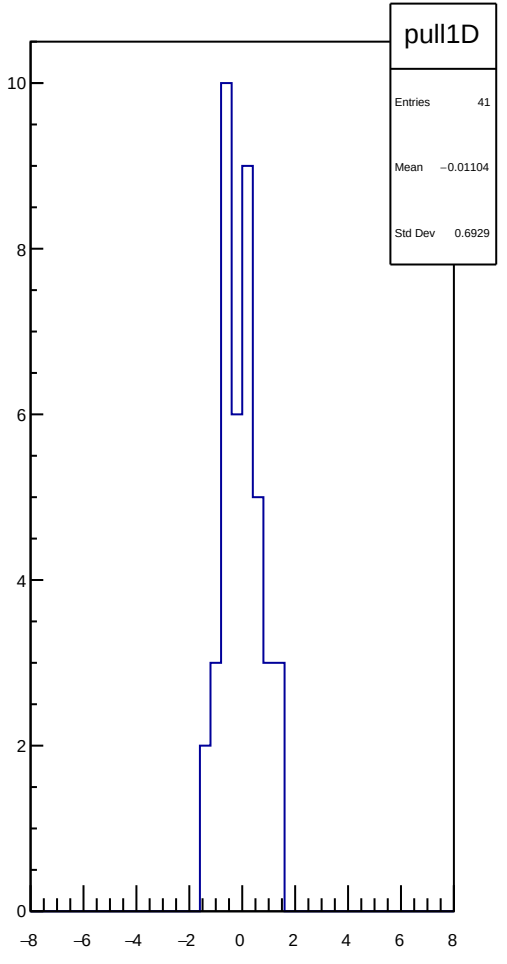

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1461 / 40
p0 725.7 ± 0.81
820
800
780
760
740
720
700
680
660
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

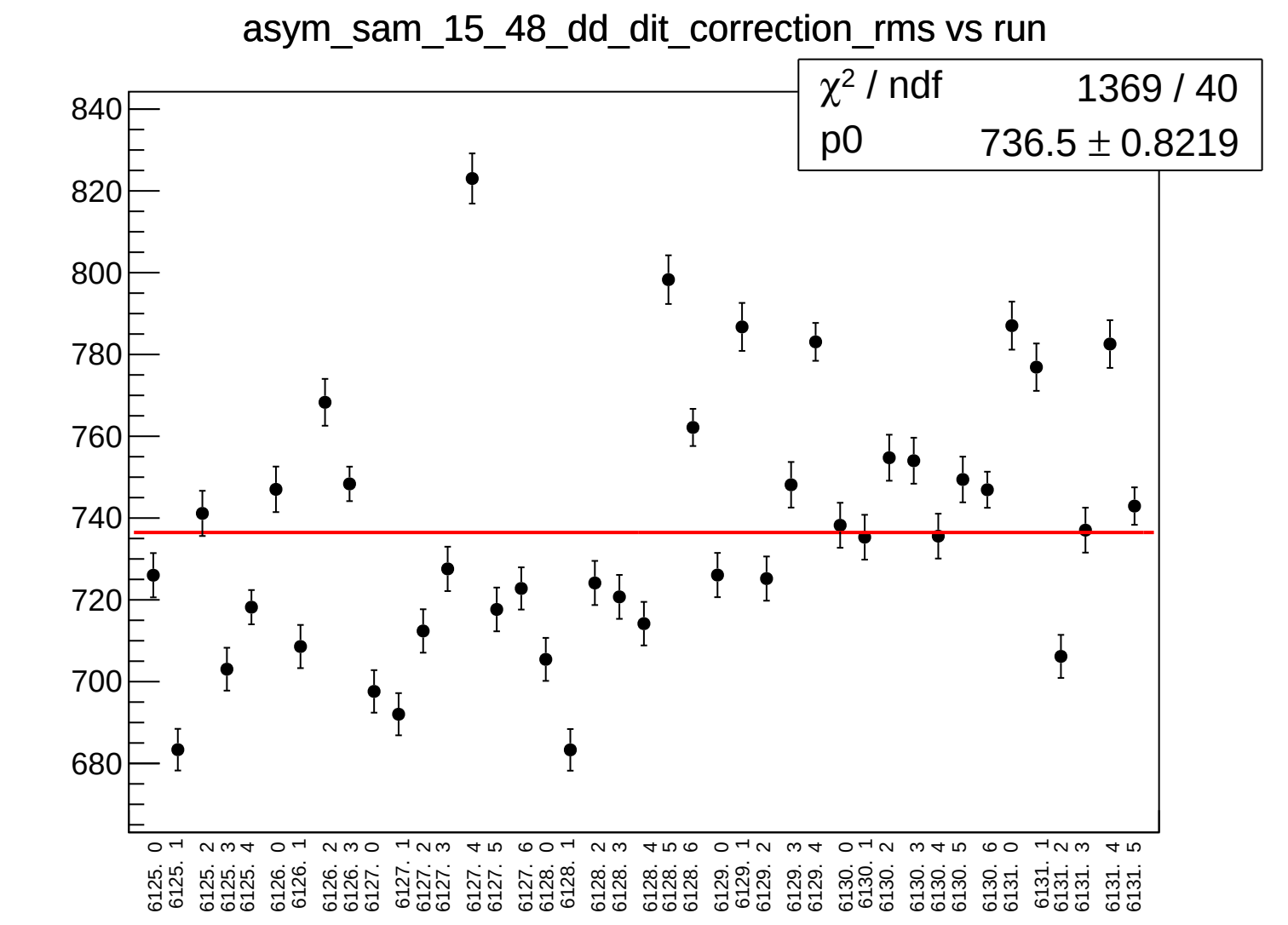

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 47.32 / 40
p0 13.3 ± 88.95
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 99
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

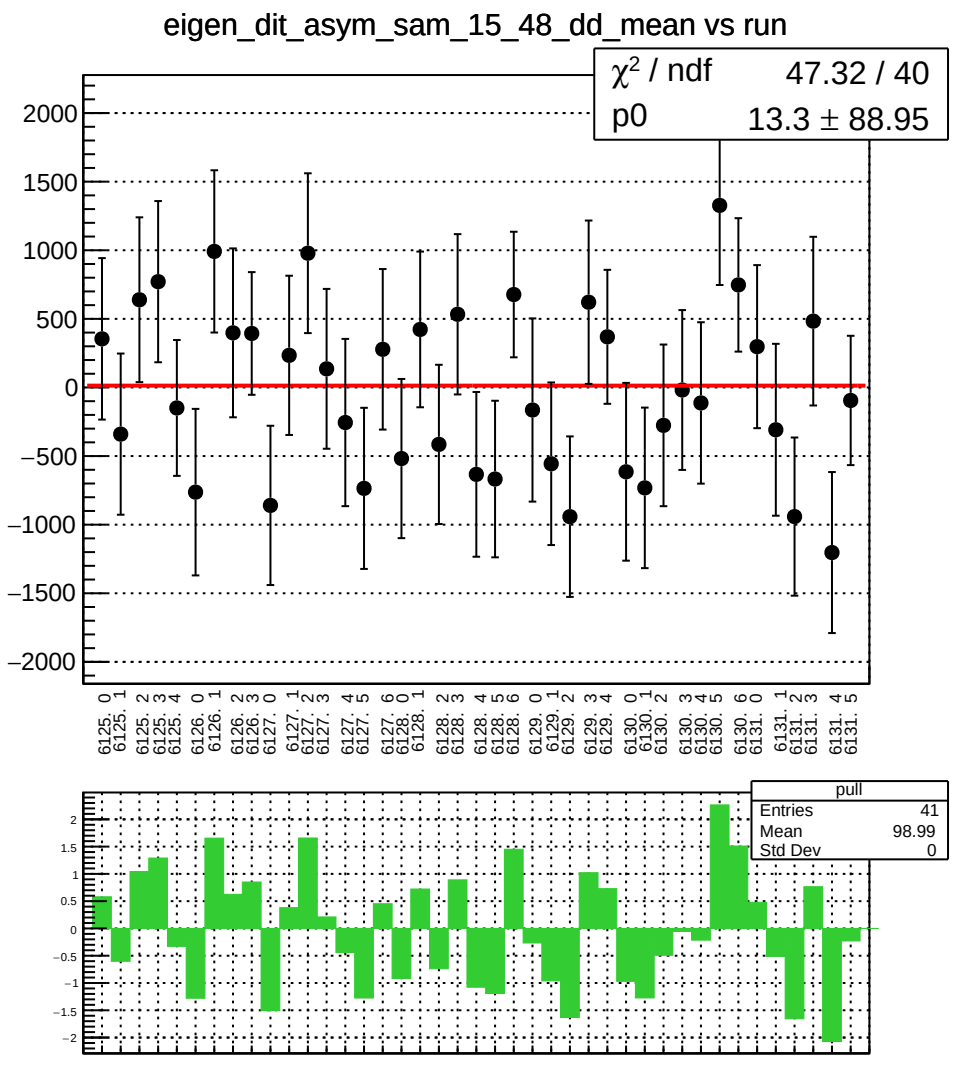

pull1D
Entries 41
Mean −0.0271
Std Dev 1.074
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

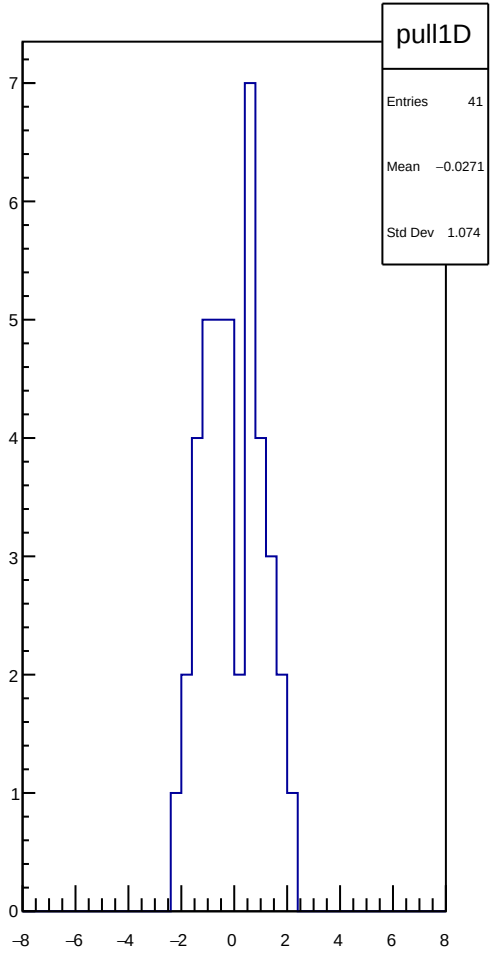

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 922.2 / 40
p0 56.37 ± 0.06289
64
62
60
58
56
54
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

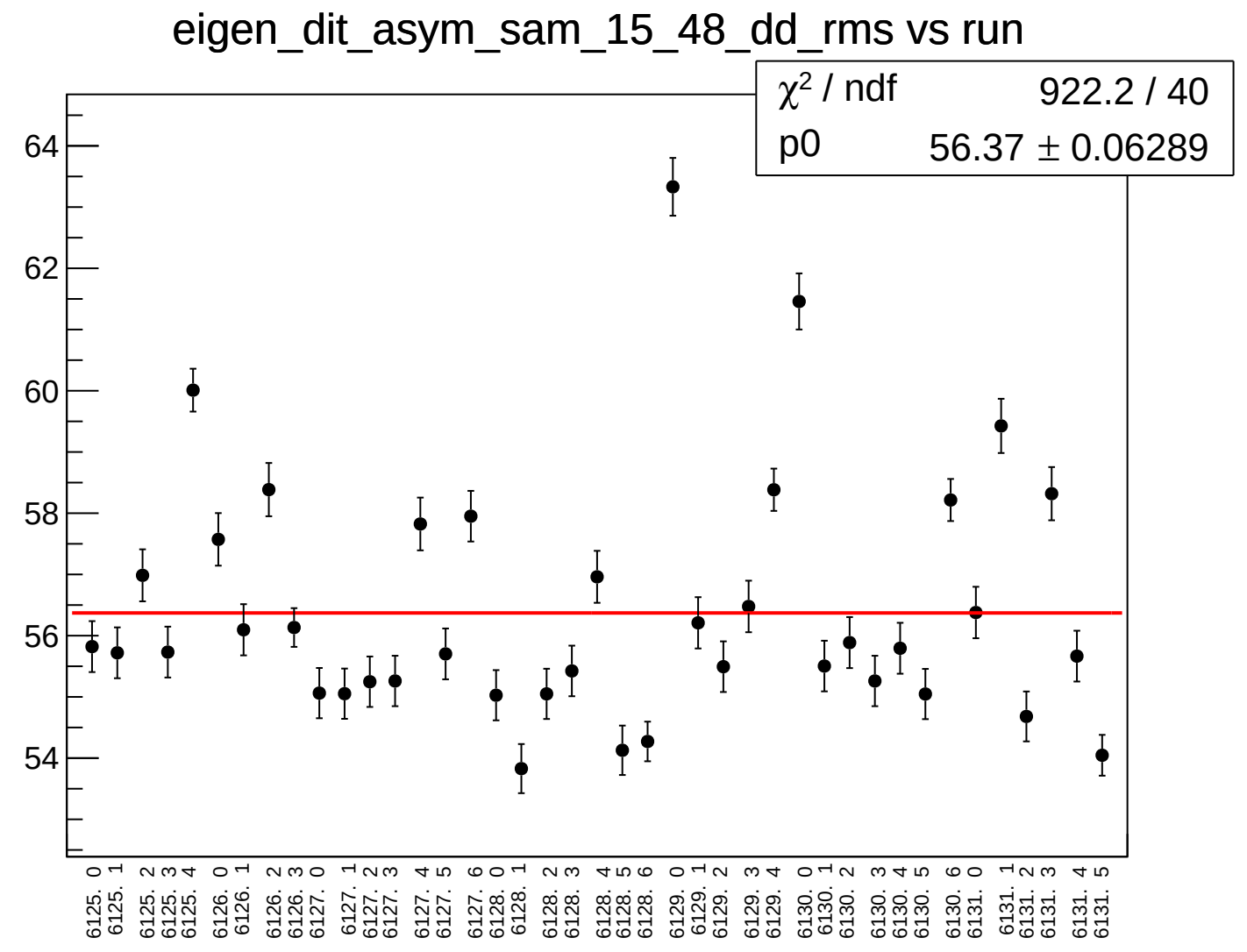

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 19.69 / 40
p0 680.8 ± 1162
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 145
Std Dev 0
1.5
1
0.5
0
−0.5
−1

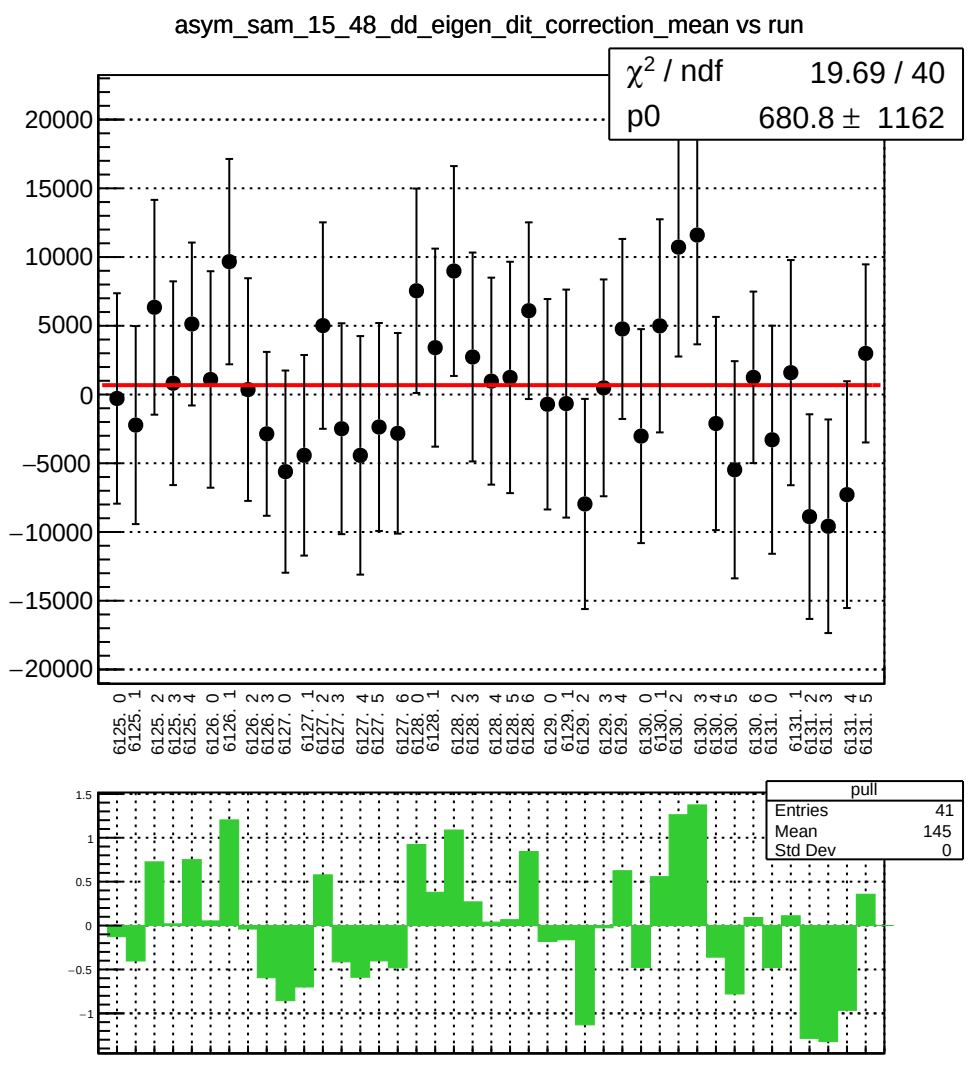

pull1D
Entries 41
Mean −0.01104
Std Dev 0.6929
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

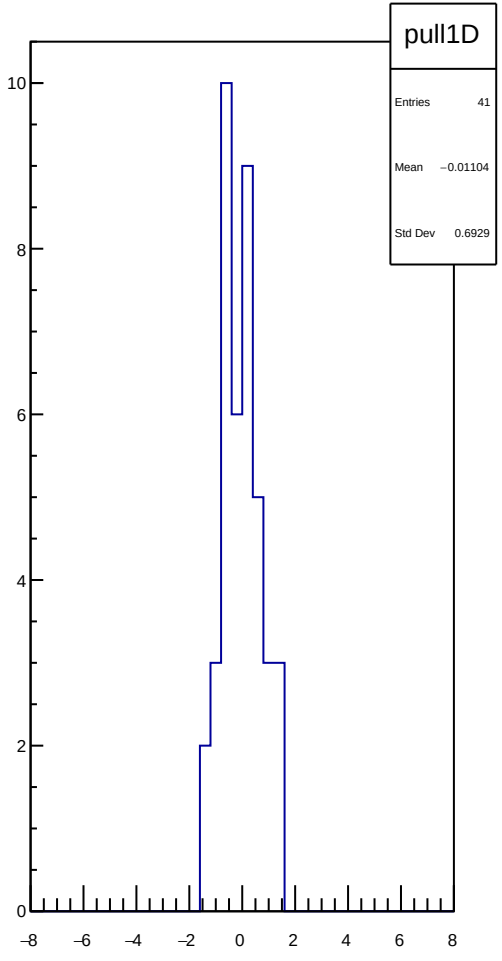

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 1369 / 40
p0 736.5 ± 0.8219
840
820
800
780
760
740
720
700
680
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

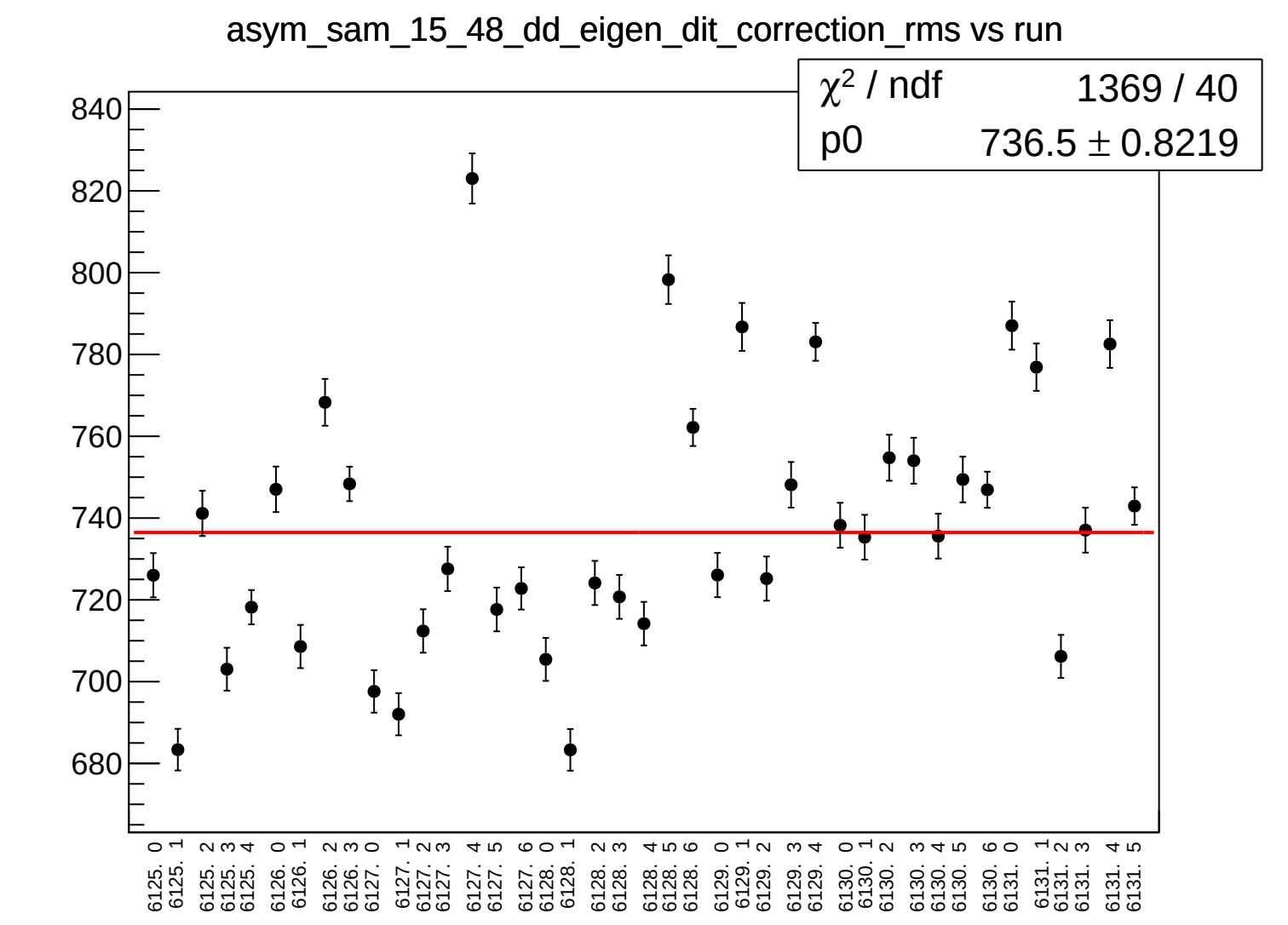

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 47.32 / 40
p0 13.3 ± 88.95
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 98.99
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

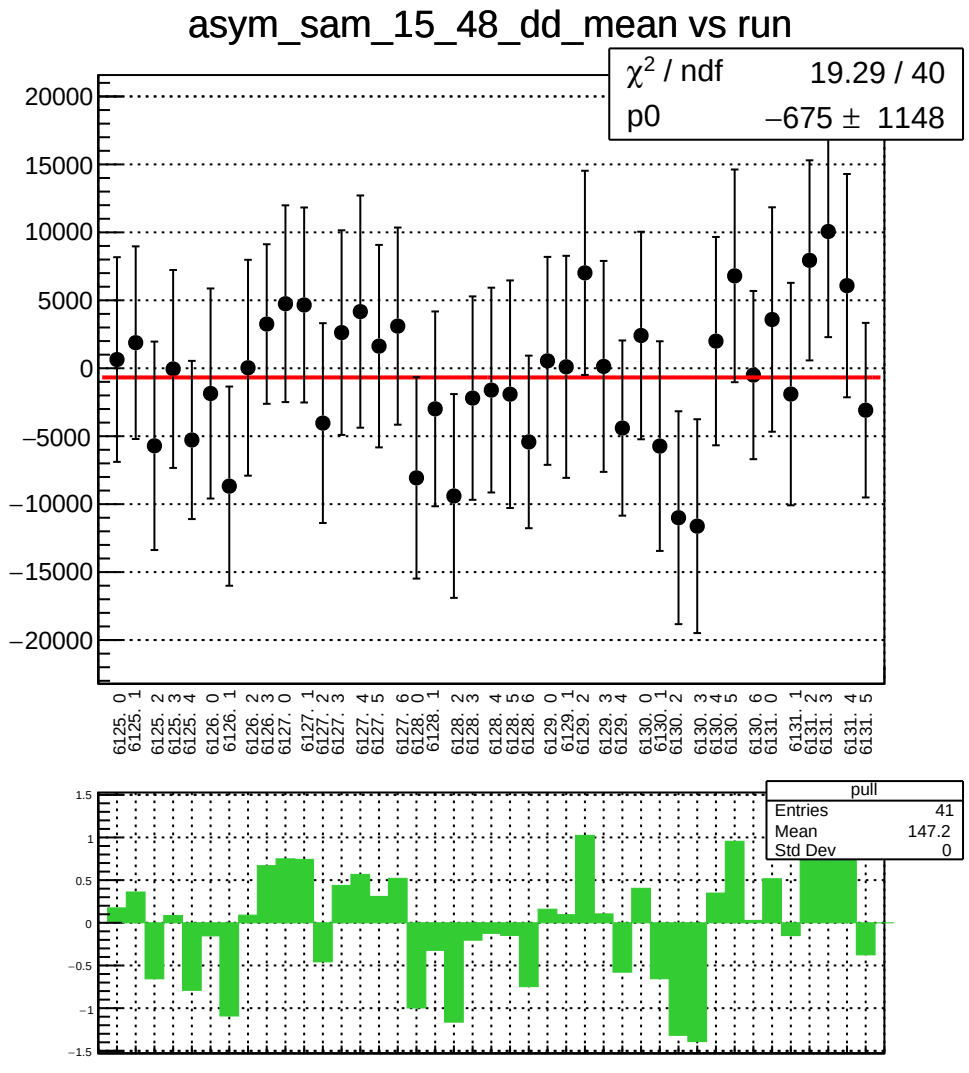

pull1D
Entries 41
Mean −0.0271
Std Dev 1.074
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

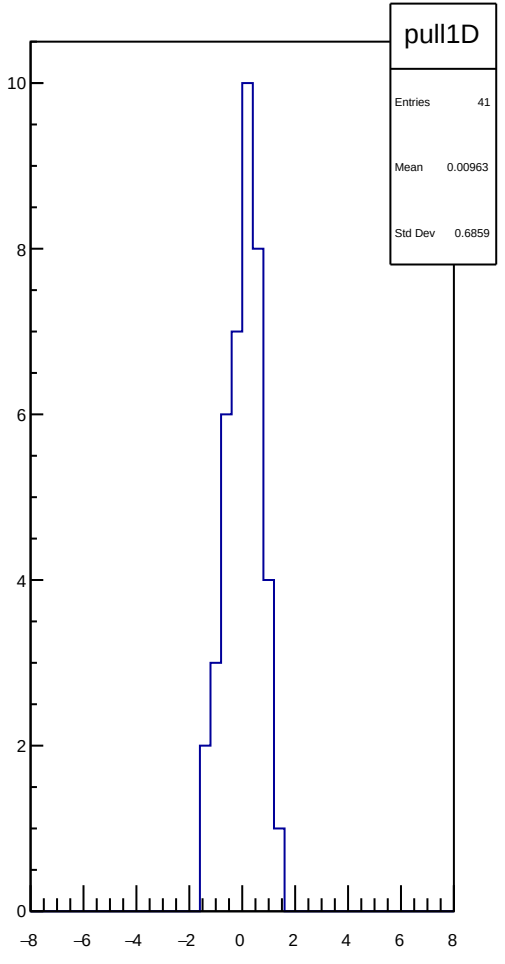

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 922.2 / 40
p0 56.37 ± 0.06289
64
62
60
58
56
54
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

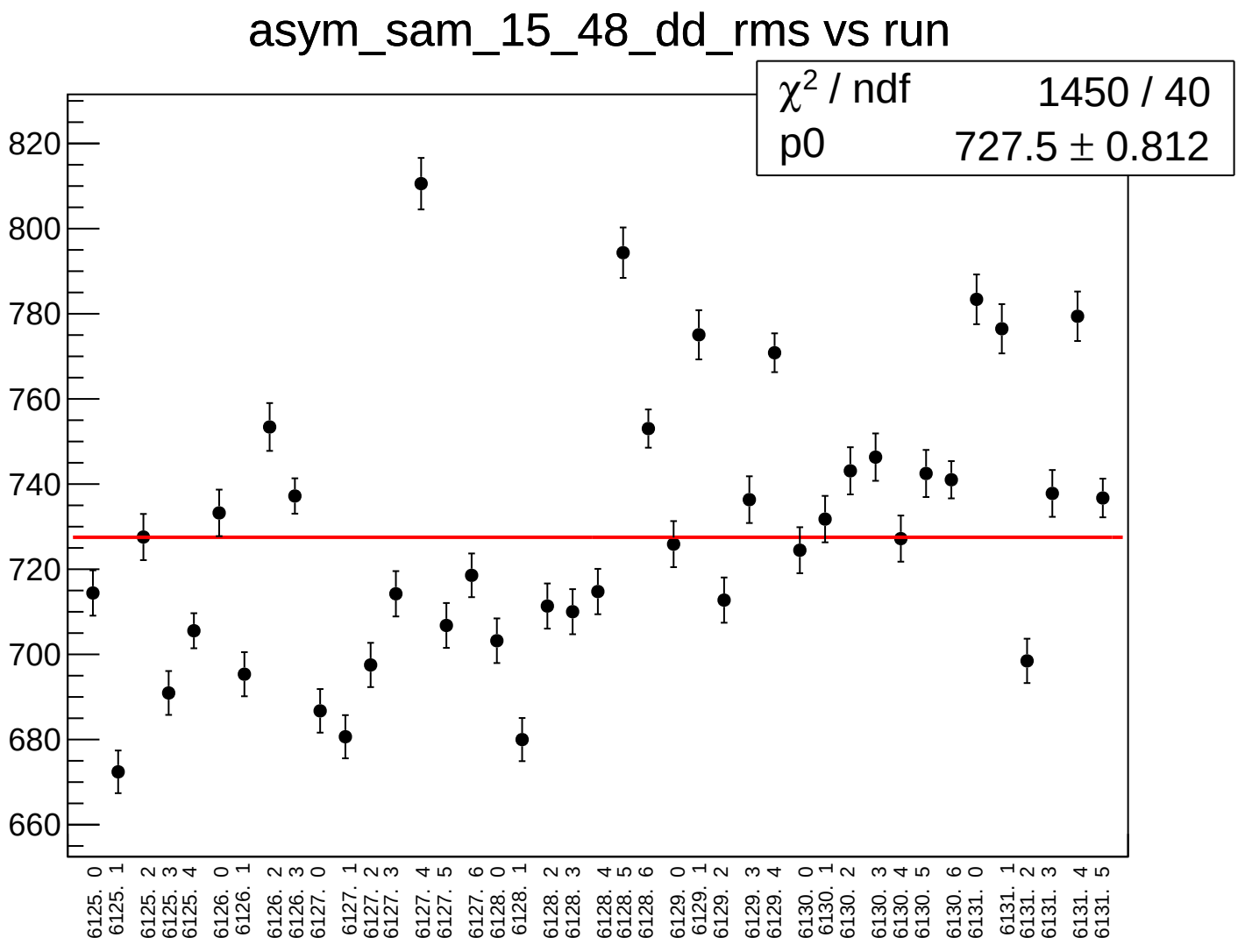

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 19.69 / 40
p0 680.8 ± 1162
pull
Entries 41
Mean 145
Std Dev 0

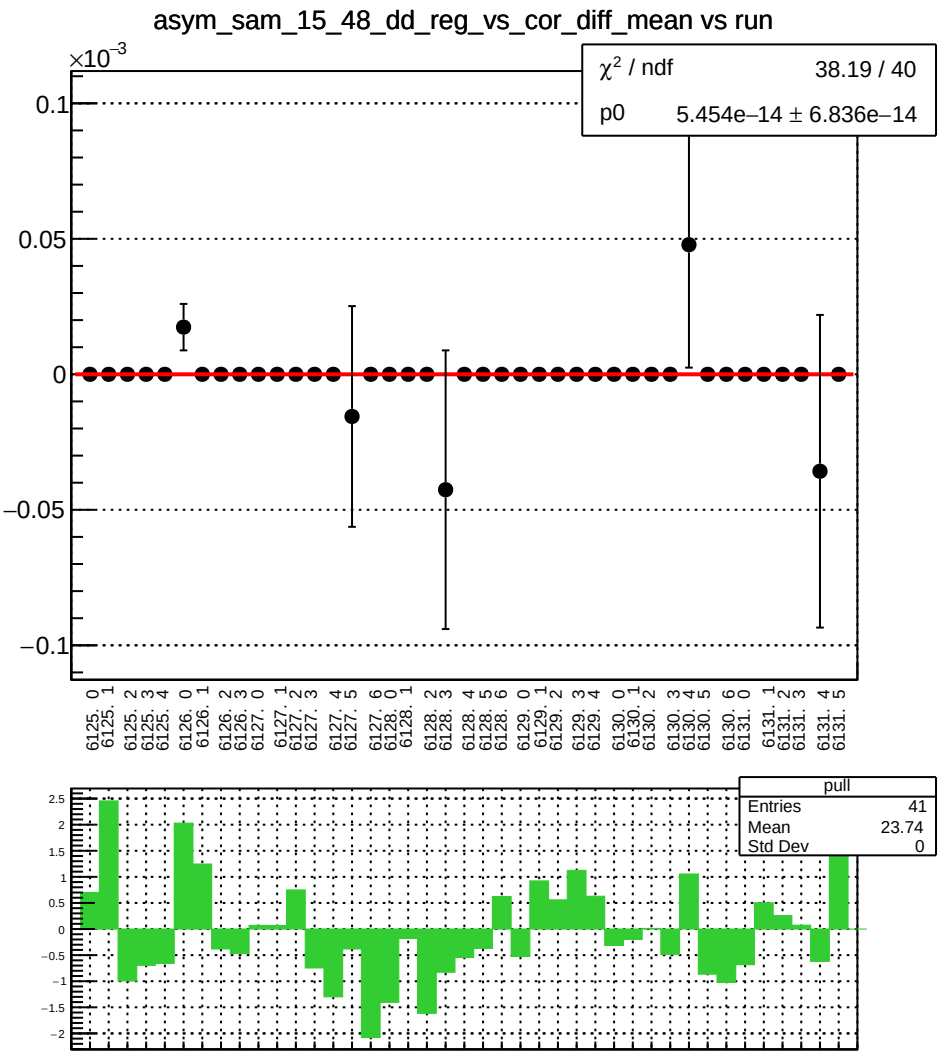

pull1D
Entries 41
Mean −0.01104
Std Dev 0.6929

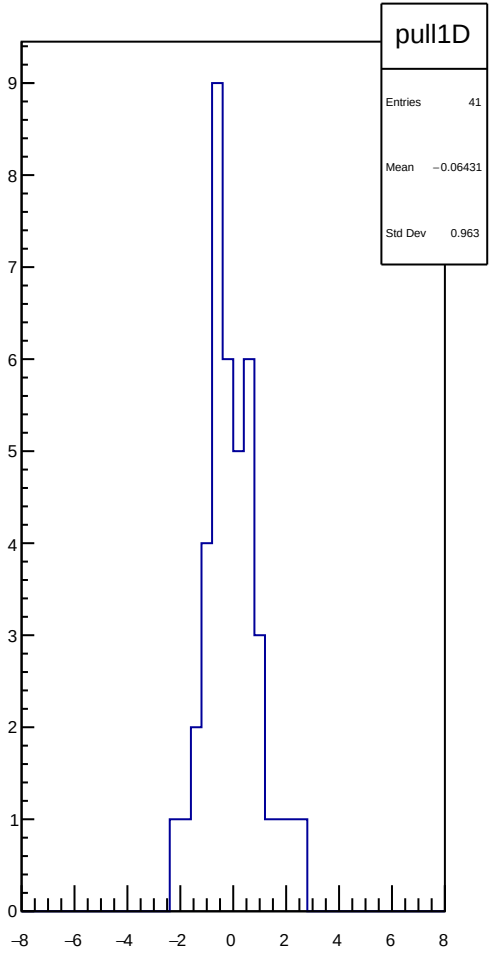

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1369 / 40
p0 736.5 ± 0.8219
840
820
800
780
760
740
720
700
680
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

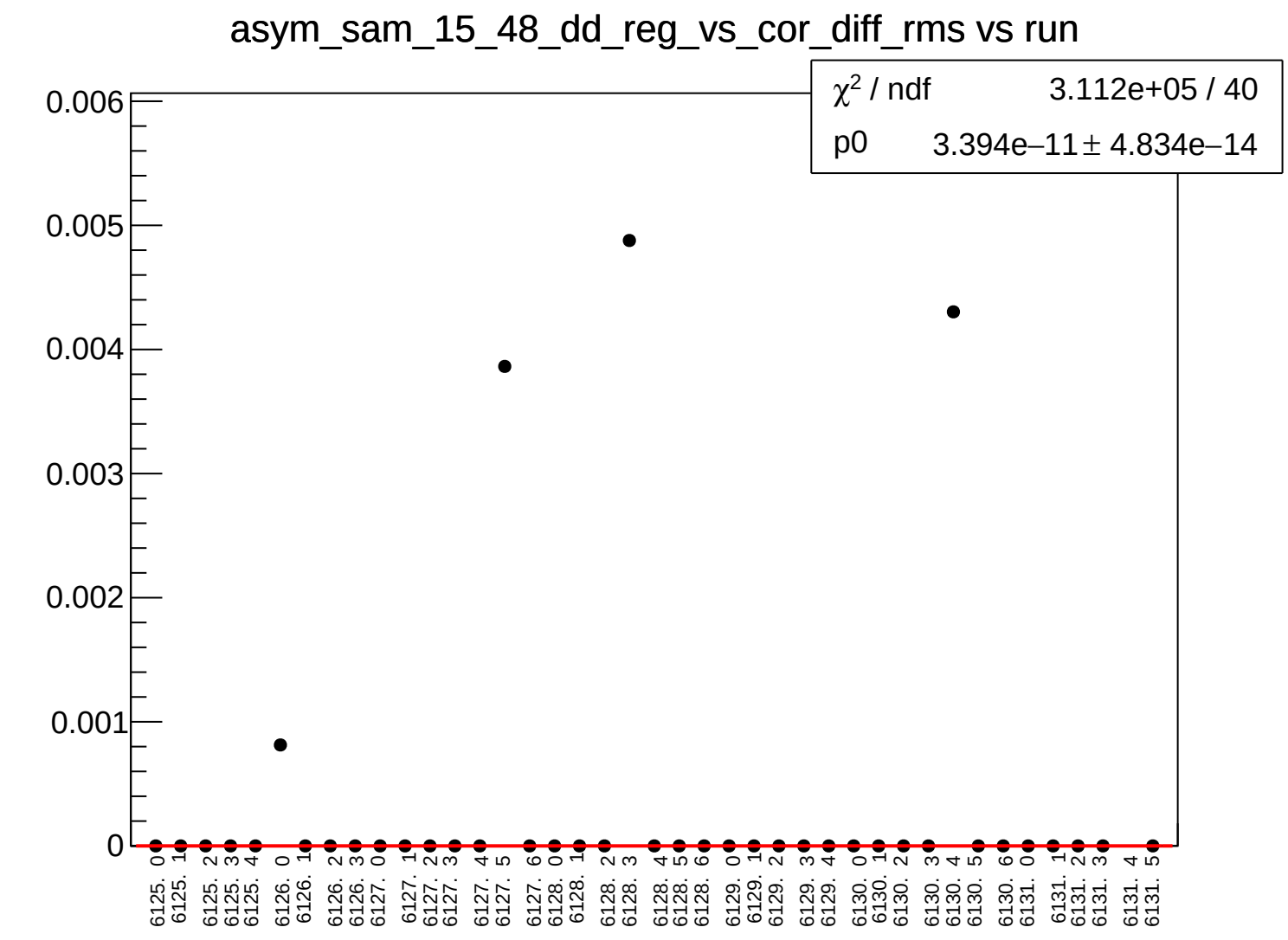

asym_sam_15_48_dd_mean vs run
χ² / ndf 19.29 / 40
p0 −675 ± 1148
pull
Entries 41
Mean 147.2
Std Dev 0

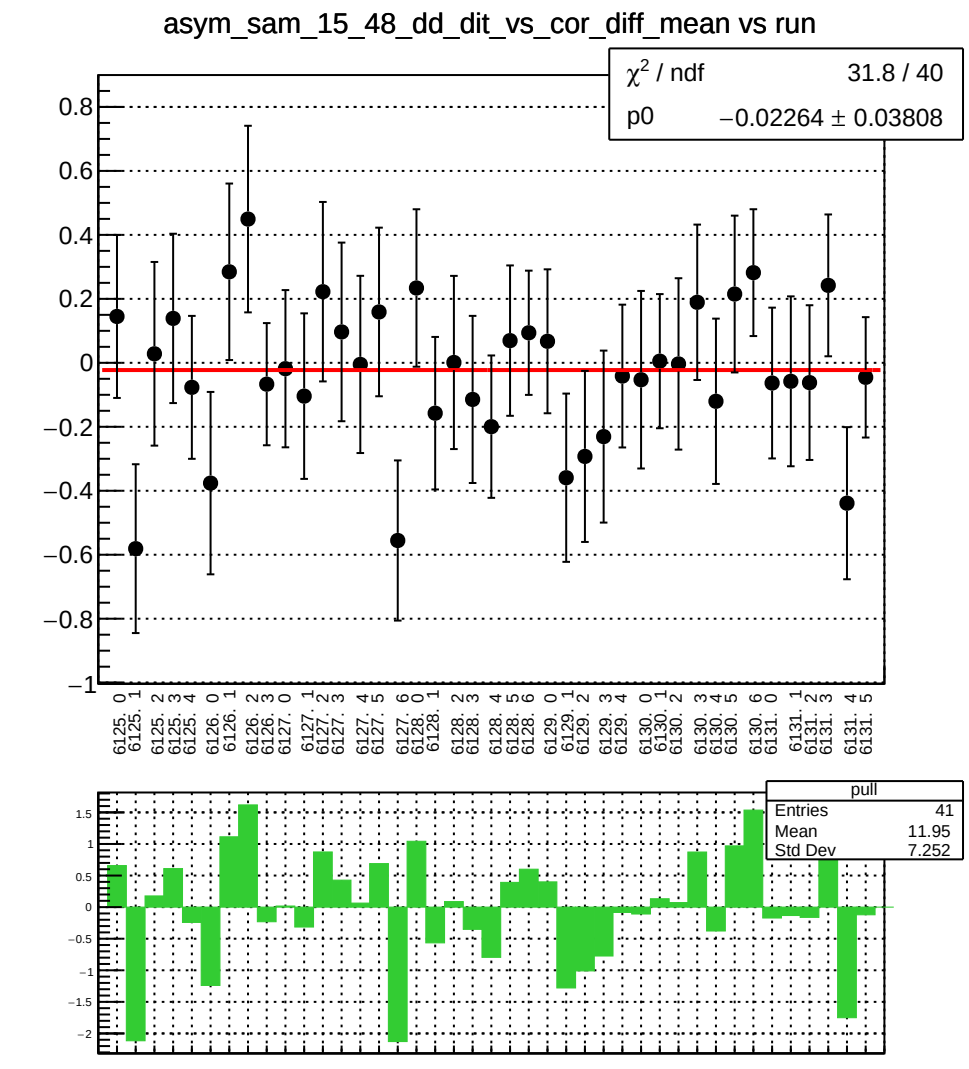

pull1D
Entries 41
Mean 0.00963
Std Dev 0.6859

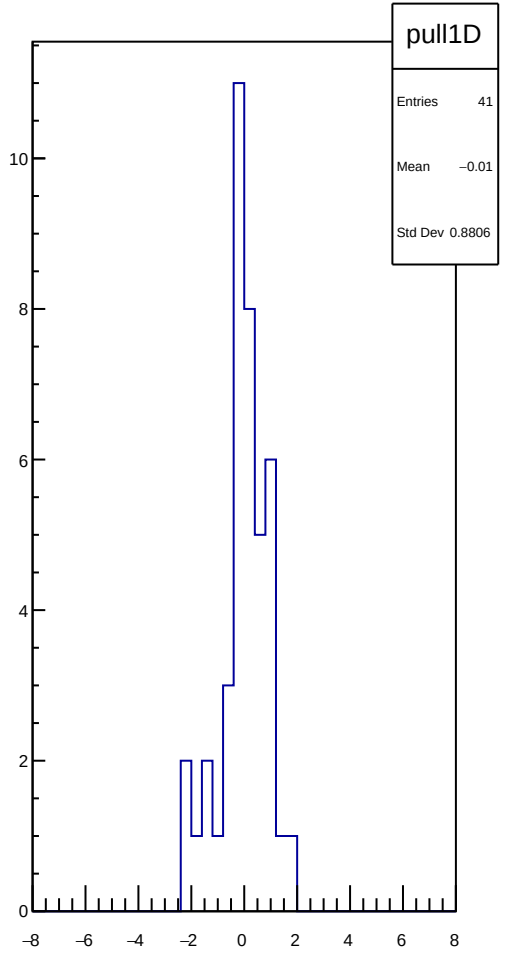

asym_sam_15_48_dd_rms vs run
χ² / ndf 1450 / 40
p0 727.5 ± 0.812
820
800
780
760
740
720
700
680
660
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

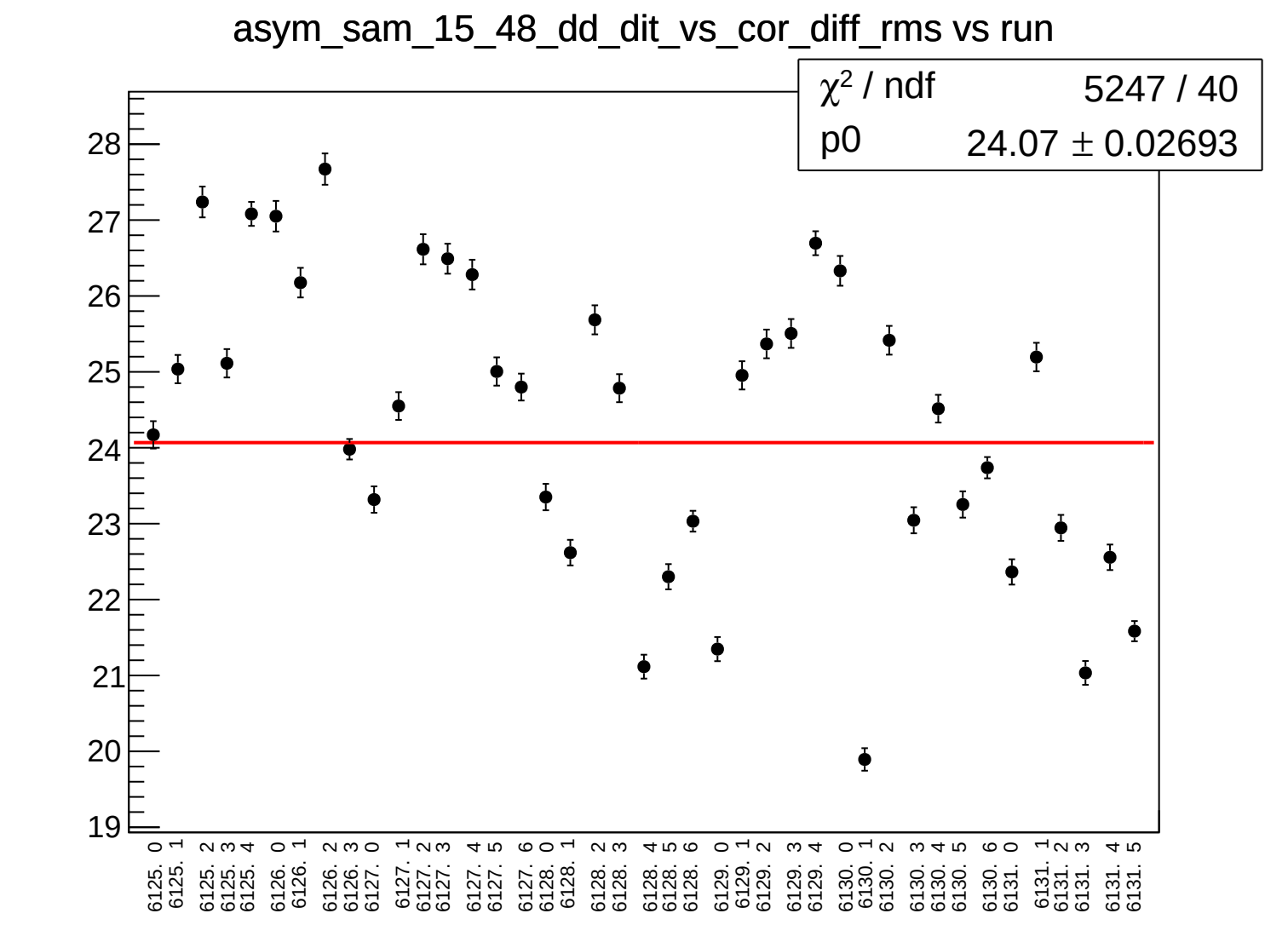

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 38.19 / 40
p0 5.454e−14 ± 6.836e−14
0.1
0.05
0
−0.05
−0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 23.74
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

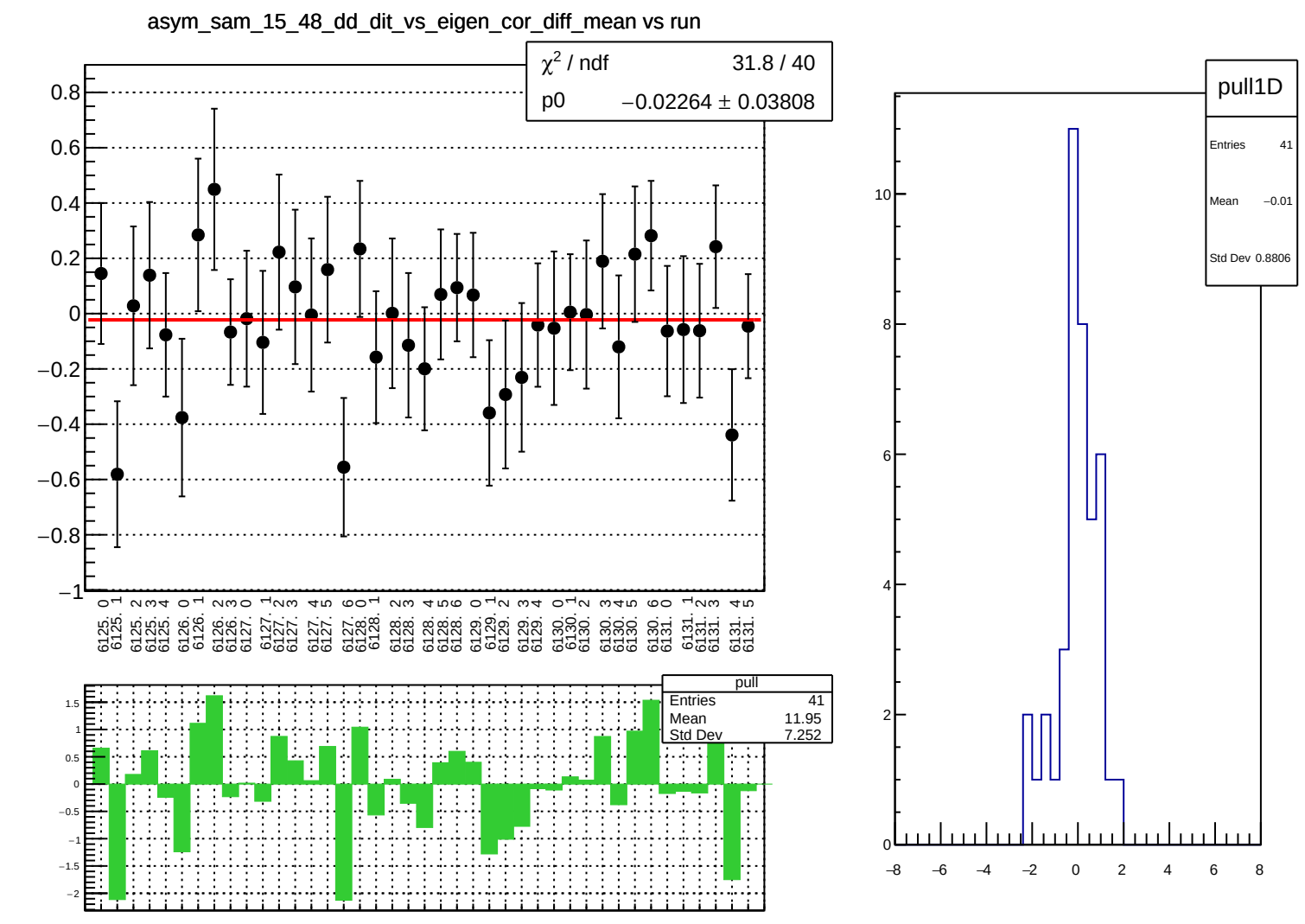

pull1D
Entries 41
Mean −0.06431
Std Dev 0.963
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

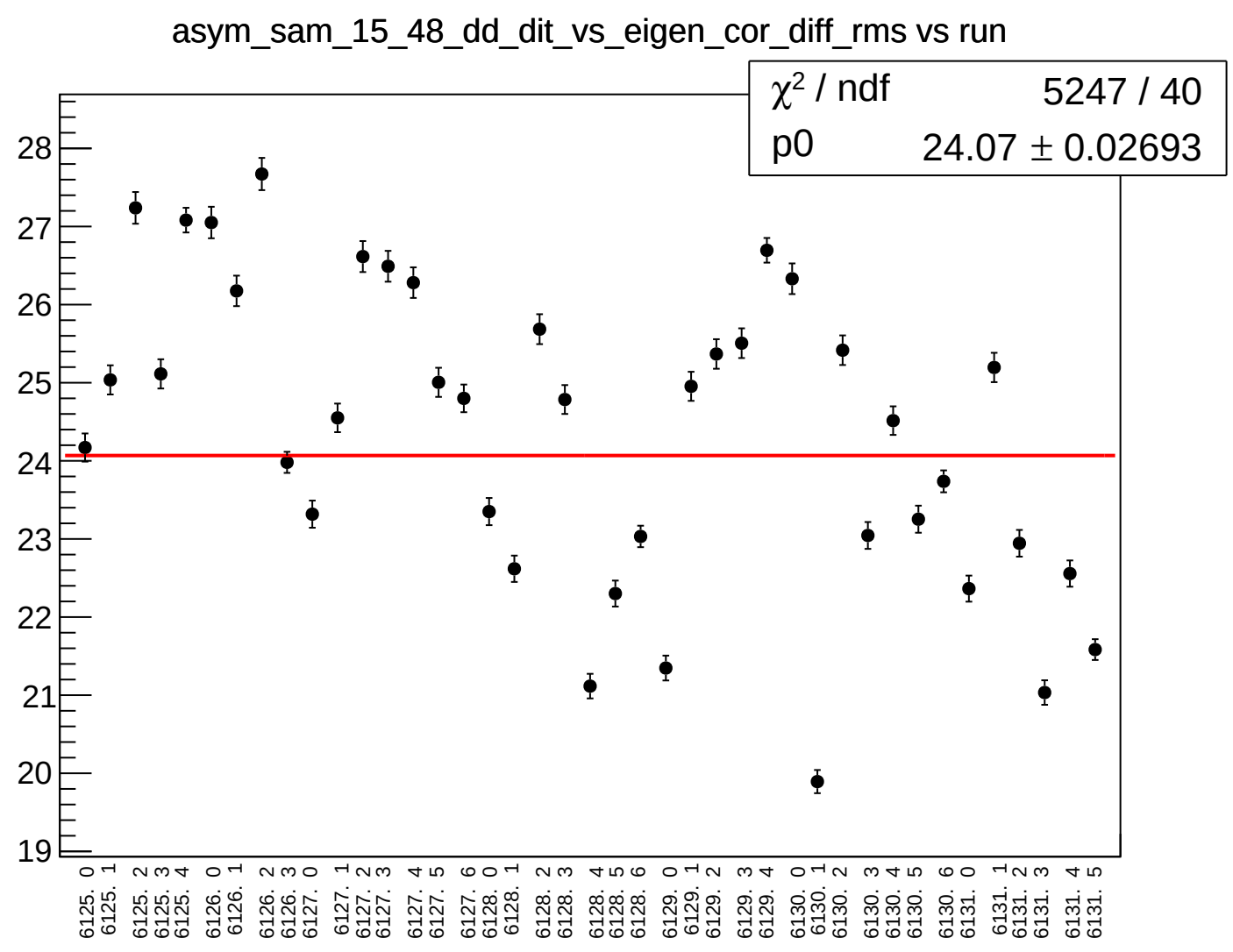

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.112e+05 / 40
p0 3.394e−11 ± 4.834e−14
0.006
0.005
0.004
0.003
0.002
0.001
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

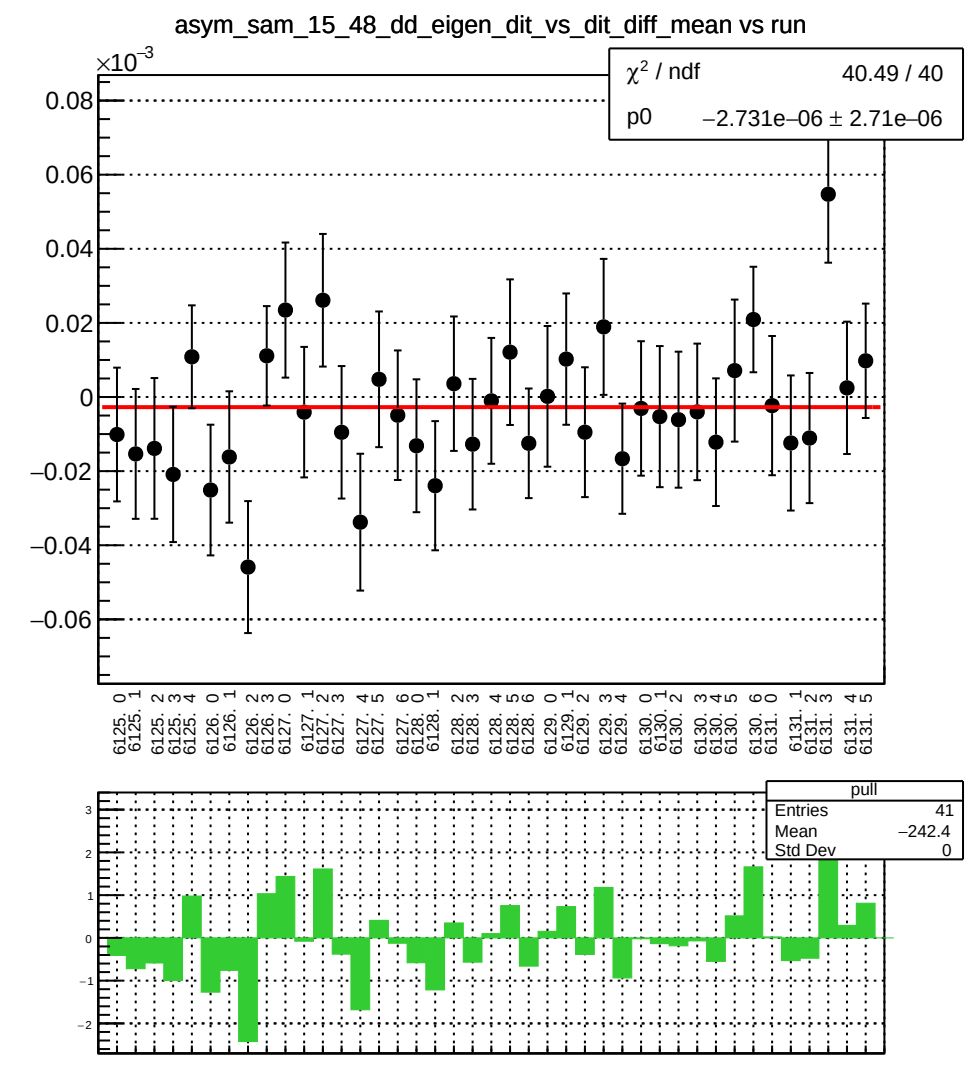

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 31.8 / 40
p0 −0.02264 ± 0.03808
pull
Entries 41
Mean 11.95
Std Dev 7.252

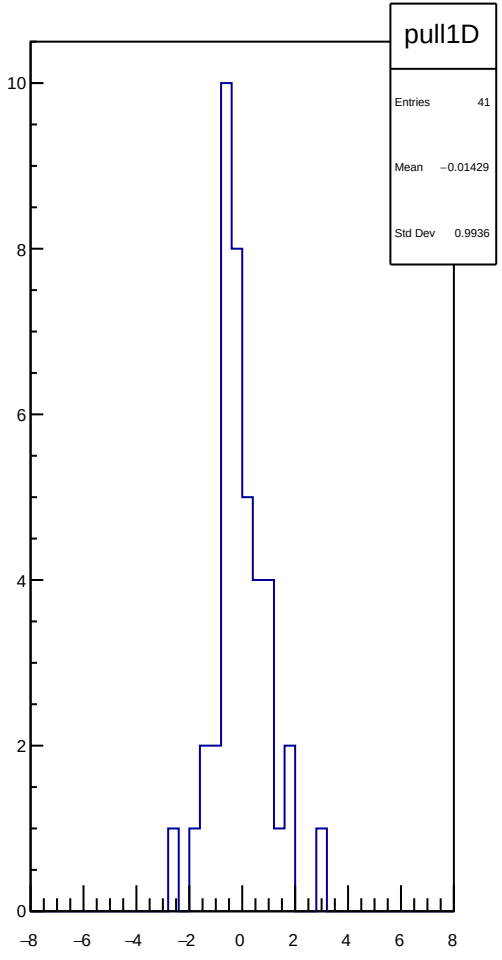

pull1D
Entries 41
Mean −0.01
Std Dev 0.8806

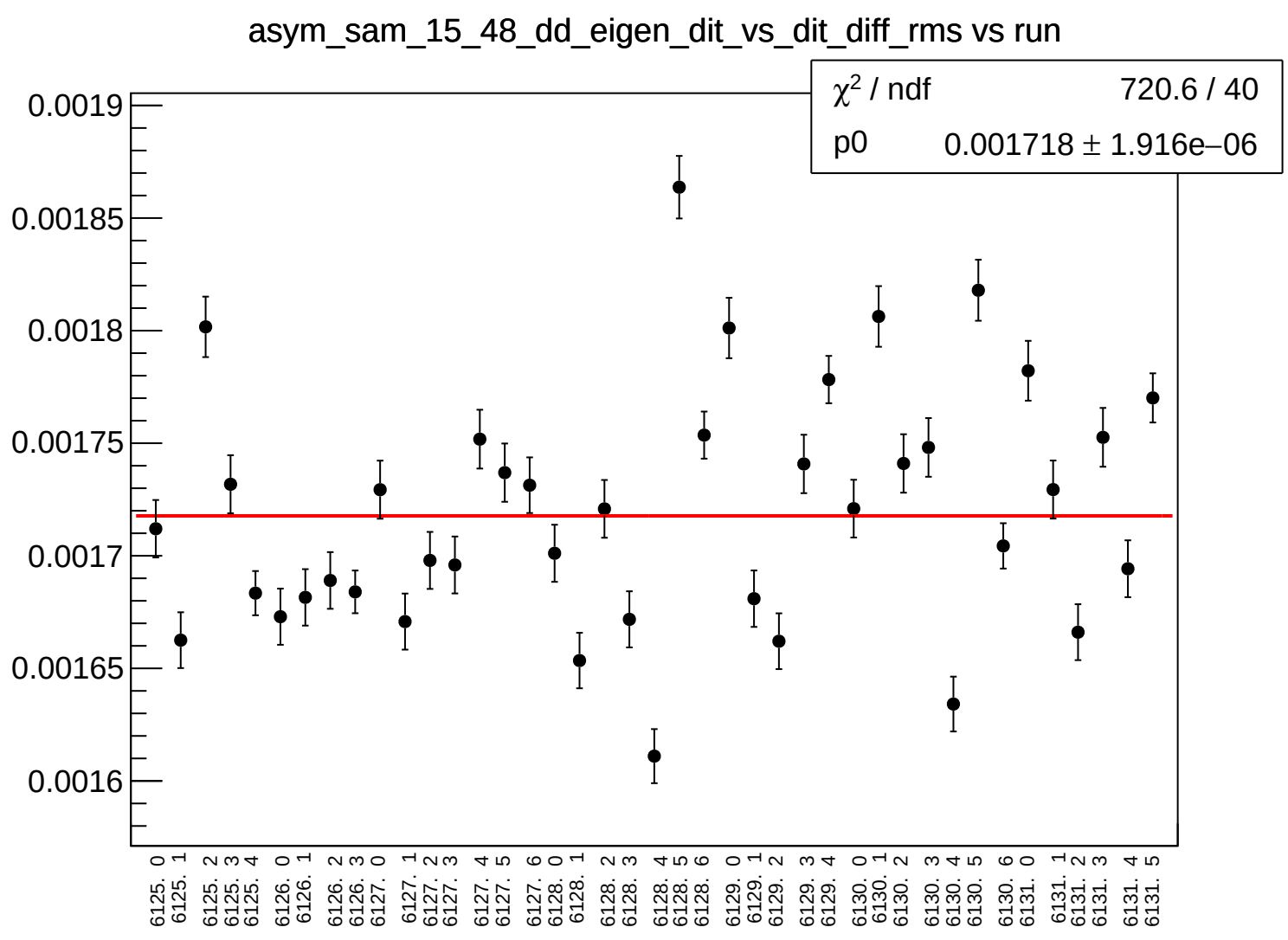

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5247 / 40
p0 24.07 ± 0.02693
28
27
26
25
24
23
22
21
20
19
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

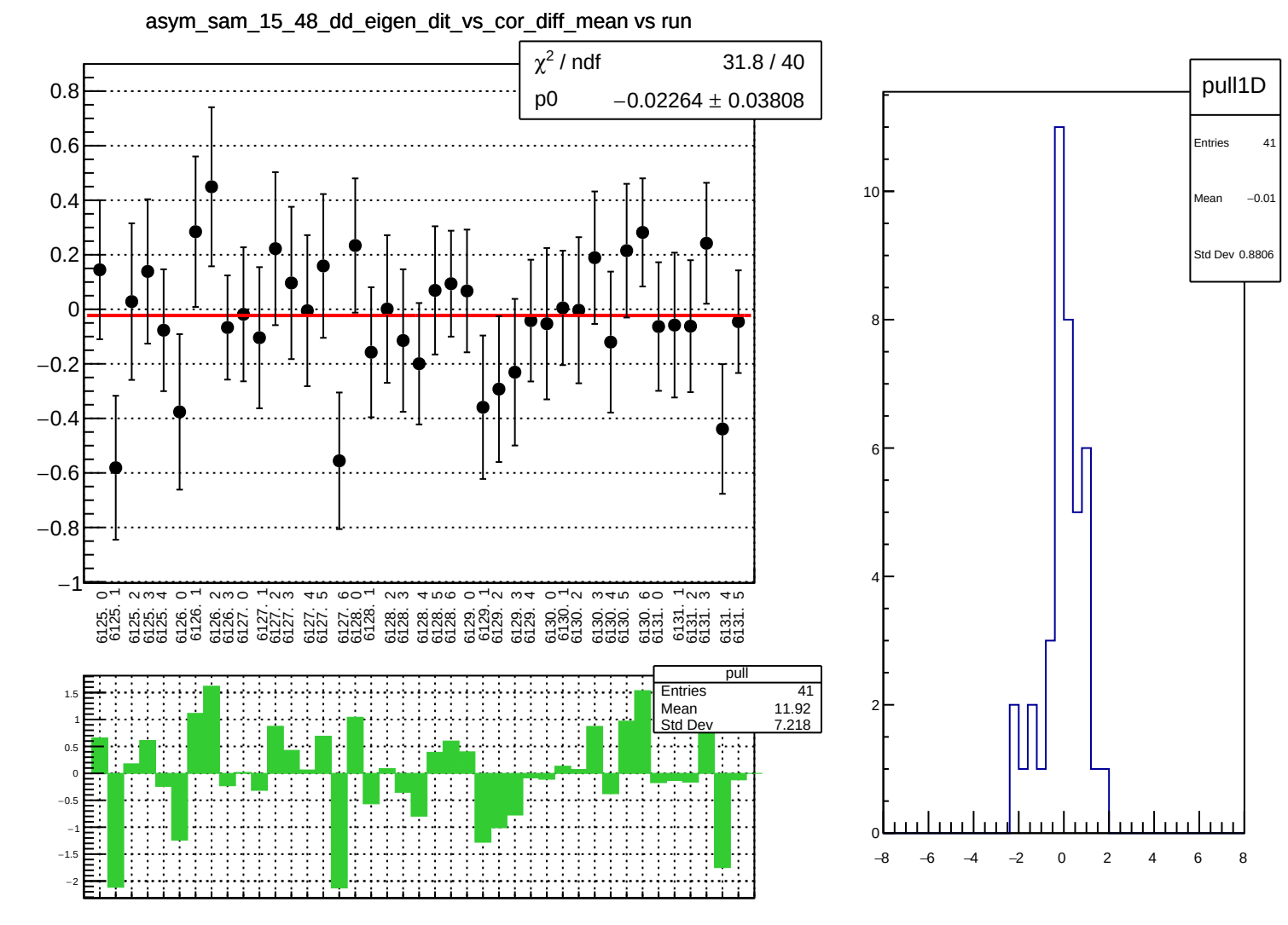

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.8 / 40
p0 −0.02264 ± 0.03808
pull
Entries 41
Mean 11.95
Std Dev 7.252
pull1D
Entries 41
Mean −0.01
Std Dev 0.8806

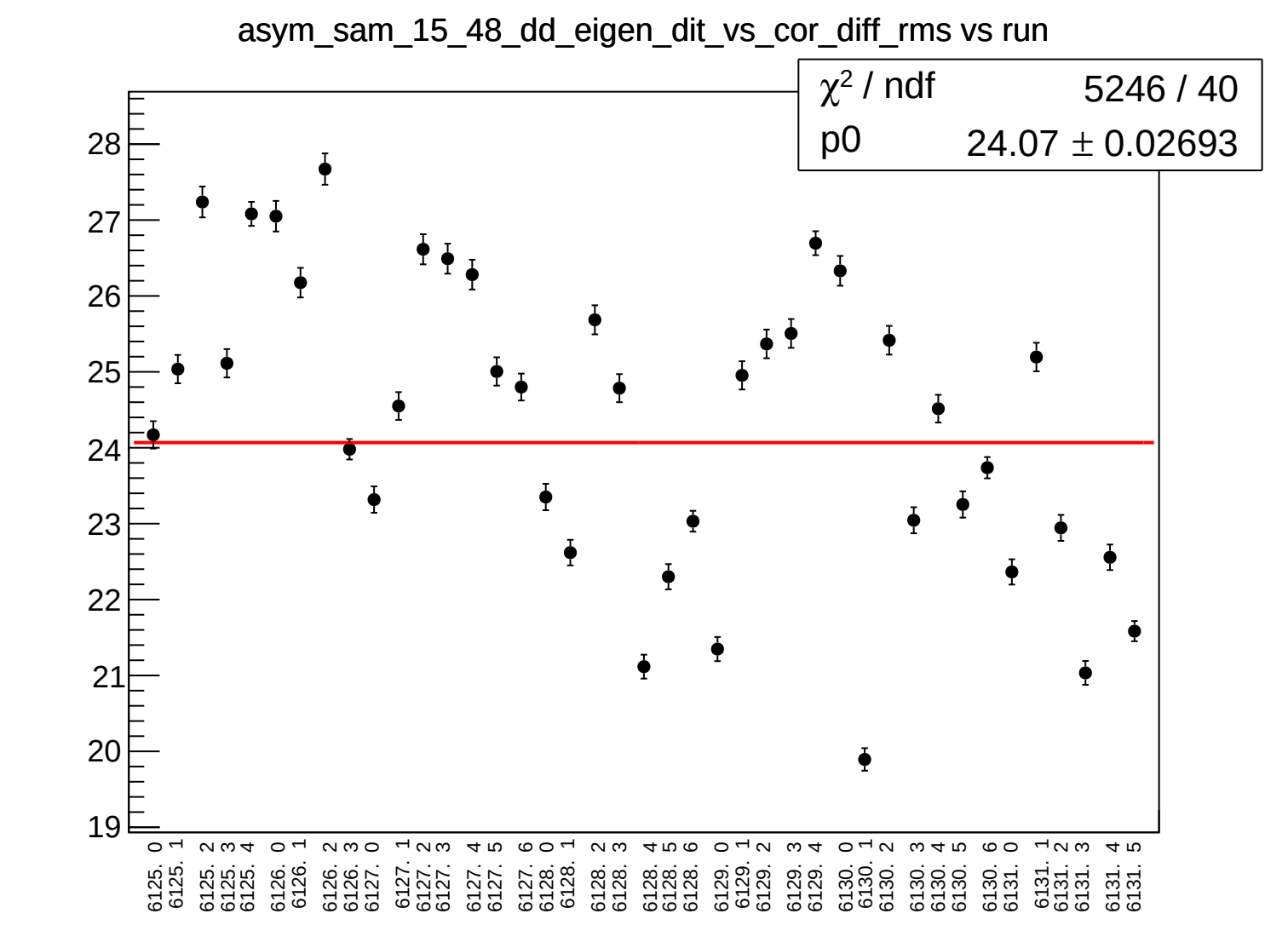

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5247 / 40
p0 24.07 ± 0.02693
28
27
26
25
24
23
22
21
20
19
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

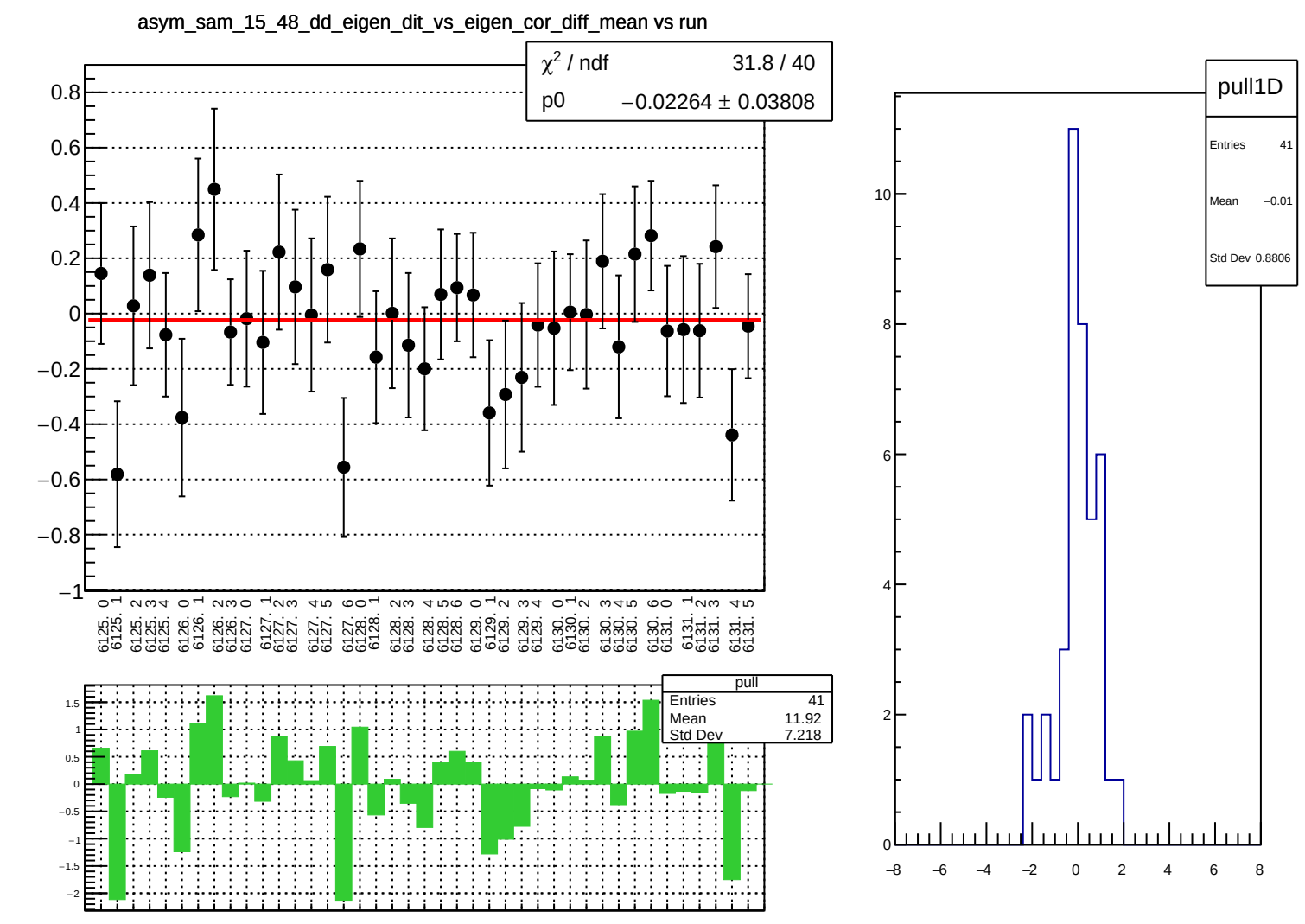

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 40.49 / 40
p0 −2.731e−06 ± 2.71e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −242.4
Std Dev 0
3
2
1
0
−1
−2

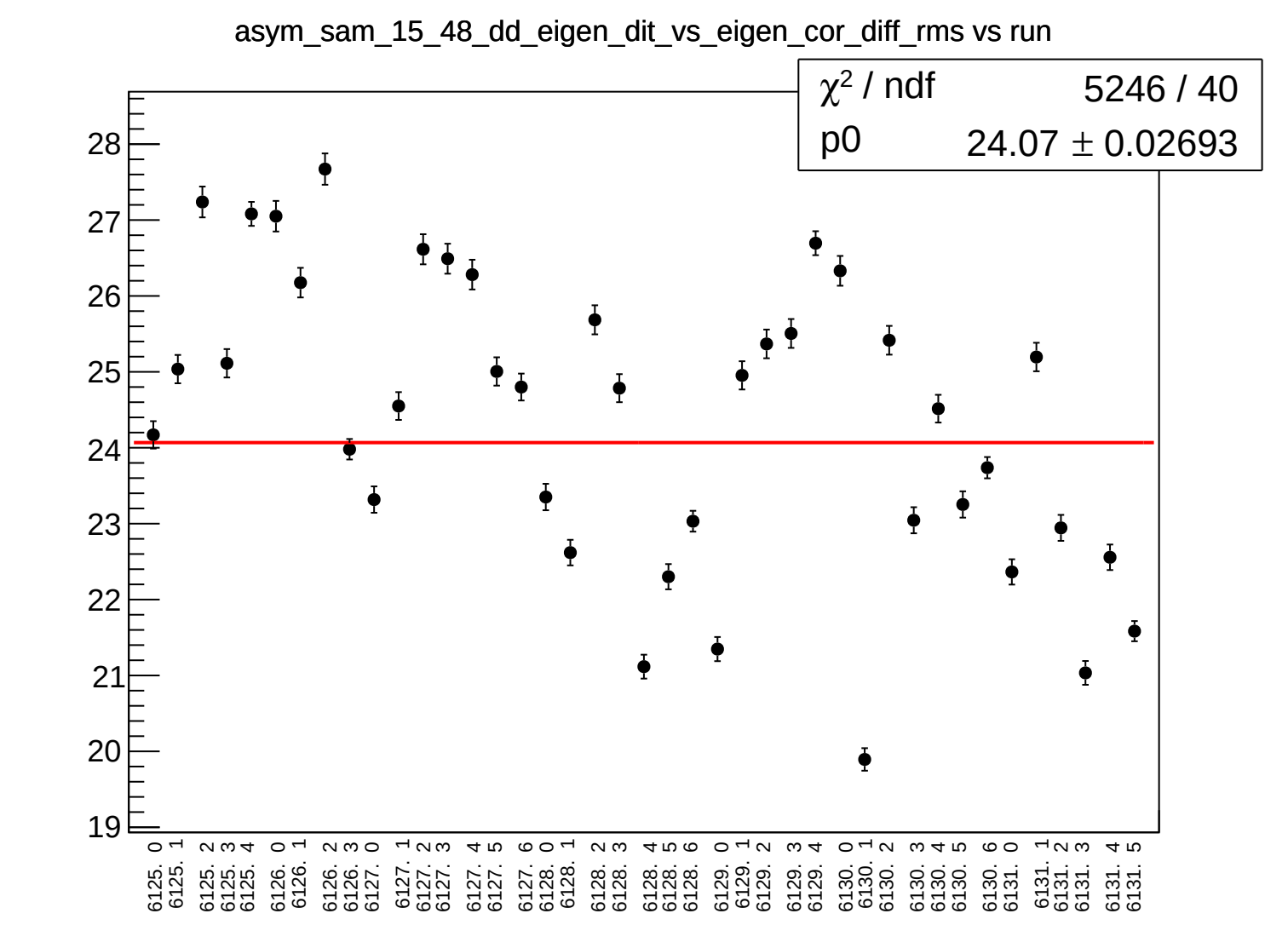

pull1D
Entries 41
Mean −0.01429
Std Dev 0.9936
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

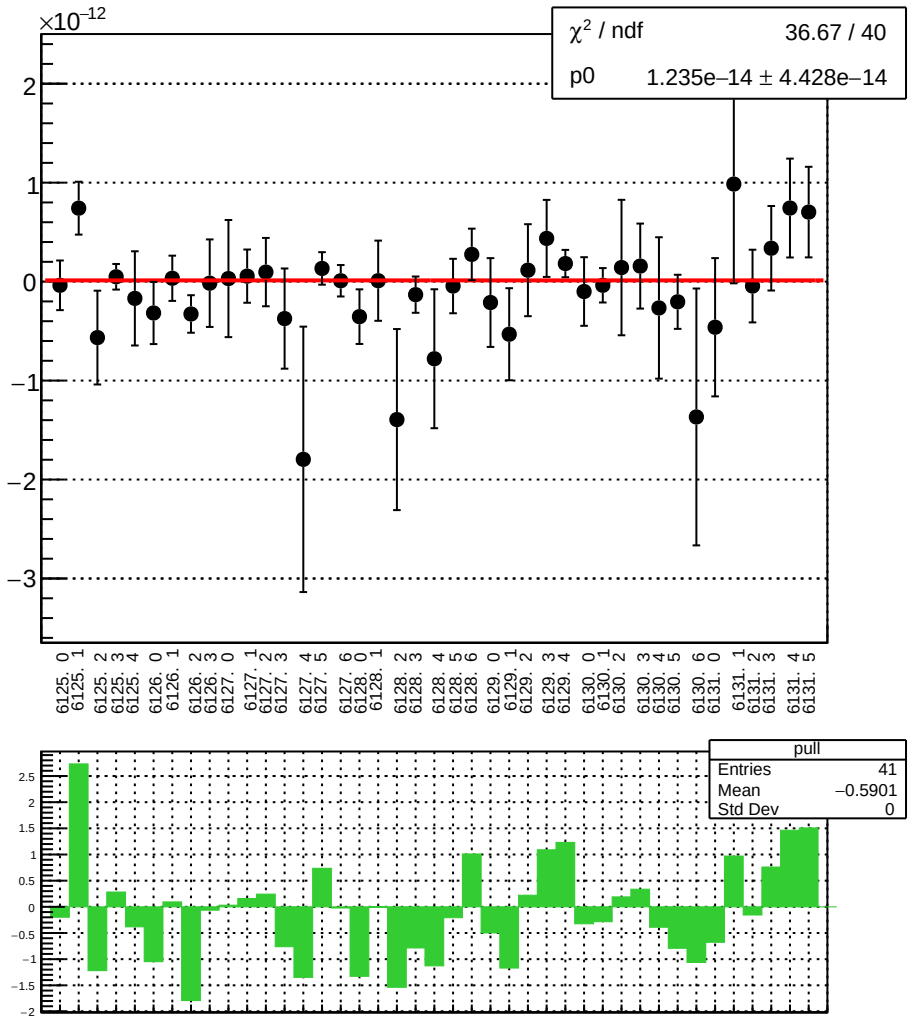

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 720.6 / 40
p0 0.001718 ± 1.916e−06
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

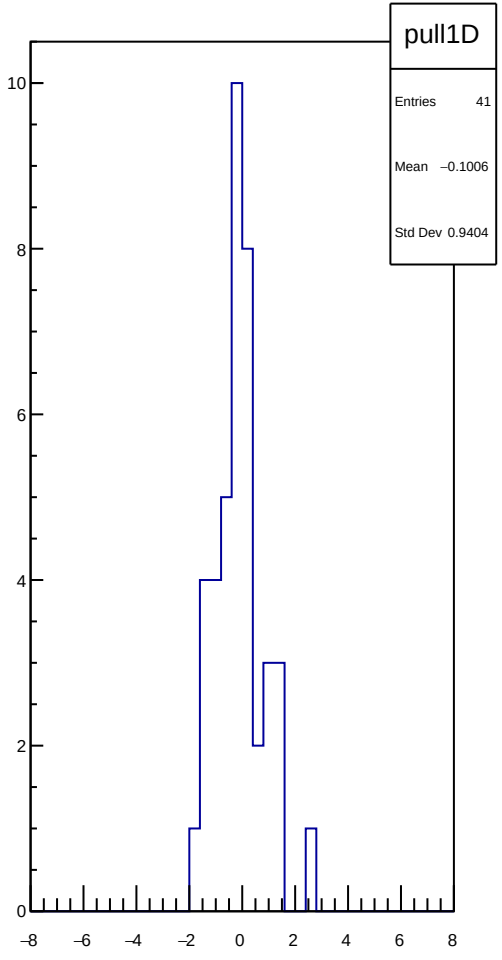

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 31.8 / 40
p0 −0.02264 ± 0.03808
pull
Entries 41
Mean 11.92
Std Dev 7.218
pull1D
Entries 41
Mean −0.01
Std Dev 0.8806

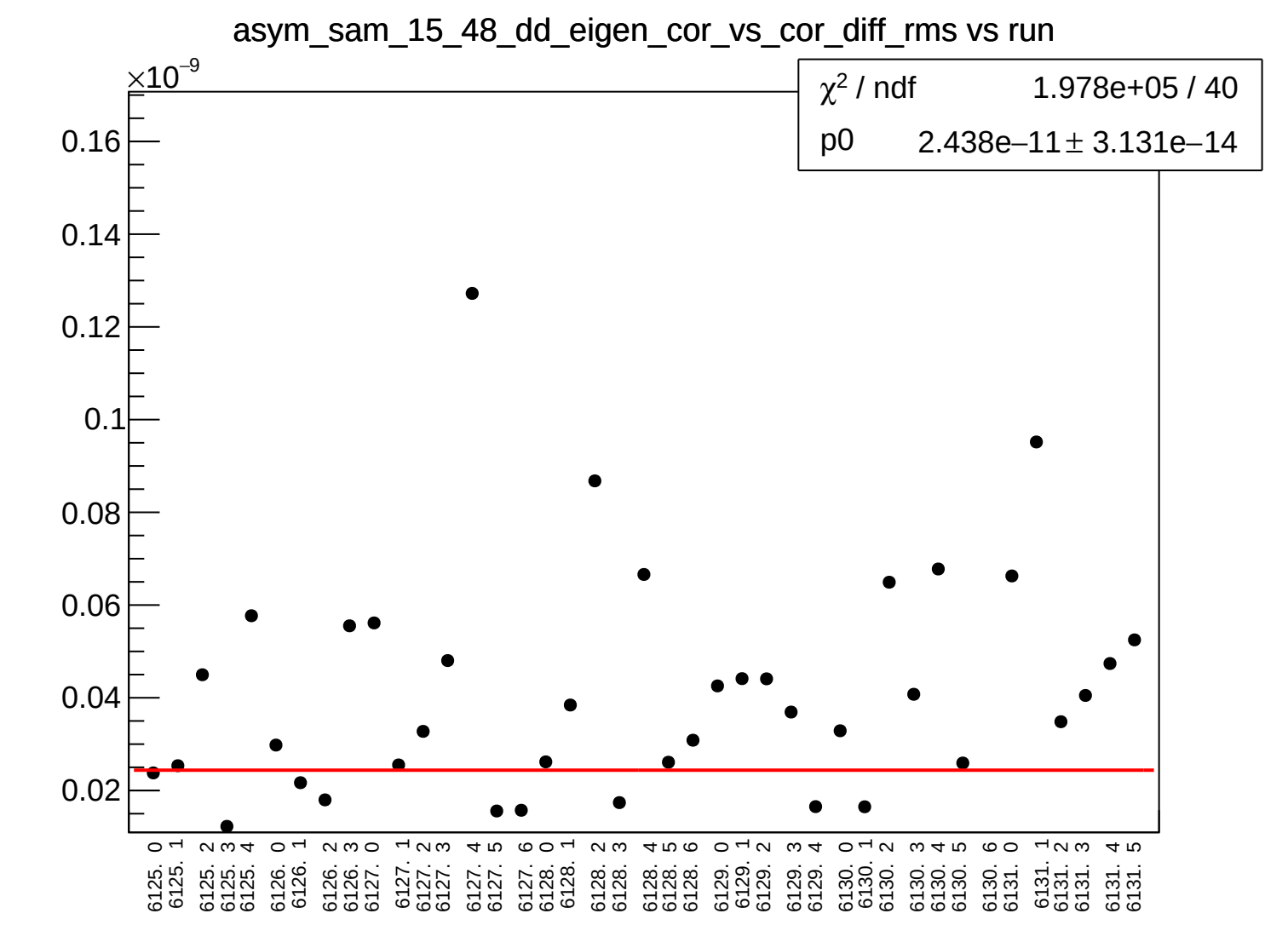

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5246 / 40
p0 24.07 ± 0.02693
28
27
26
25
24
23
22
21
20
19
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

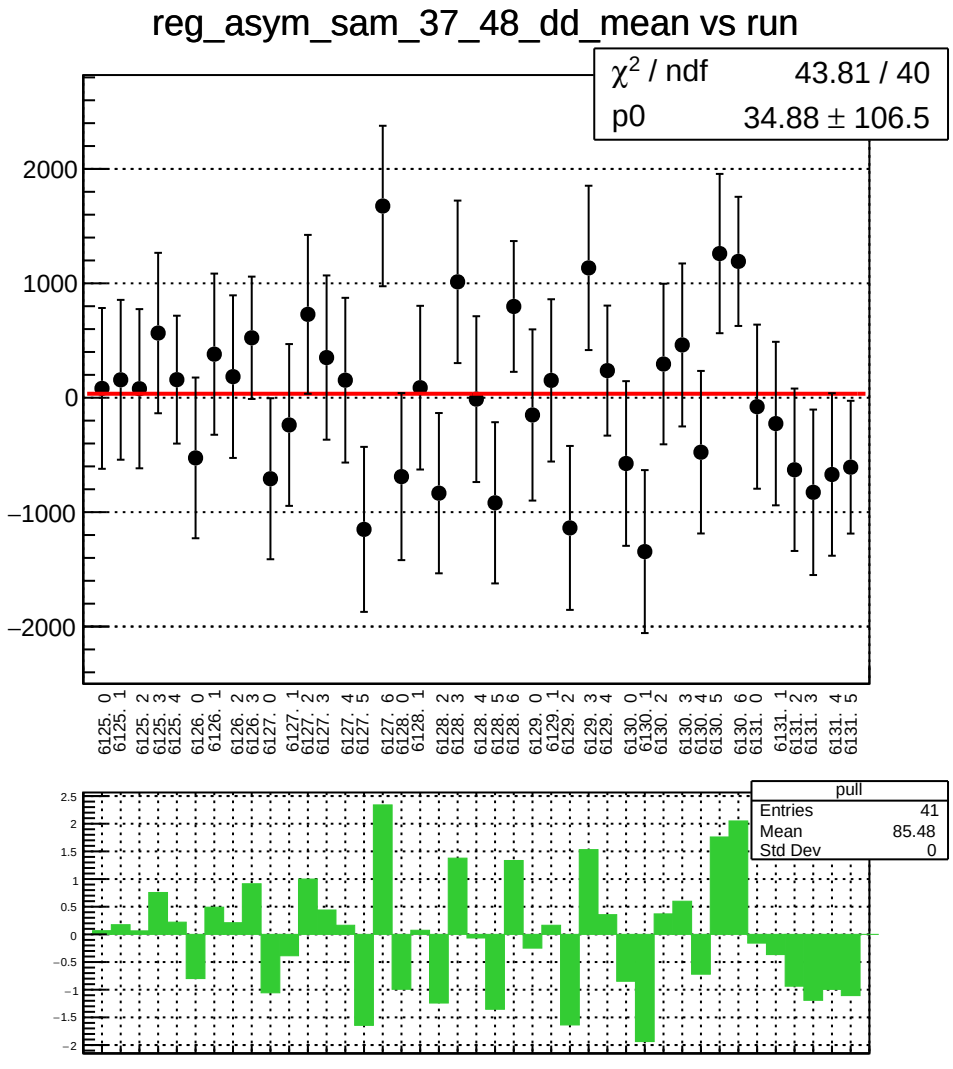

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.8 / 40
p0 −0.02264 ± 0.03808
pull
Entries 41
Mean 11.92
Std Dev 7.218
pull1D
Entries 41
Mean −0.01
Std Dev 0.8806

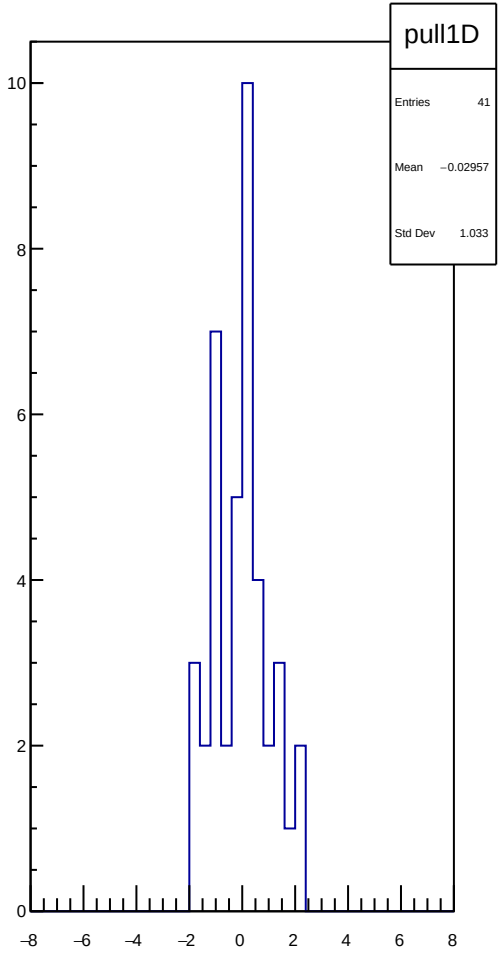

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5246 / 40
p0 24.07 ± 0.02693
28
27
26
25
24
23
22
21
20
19
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

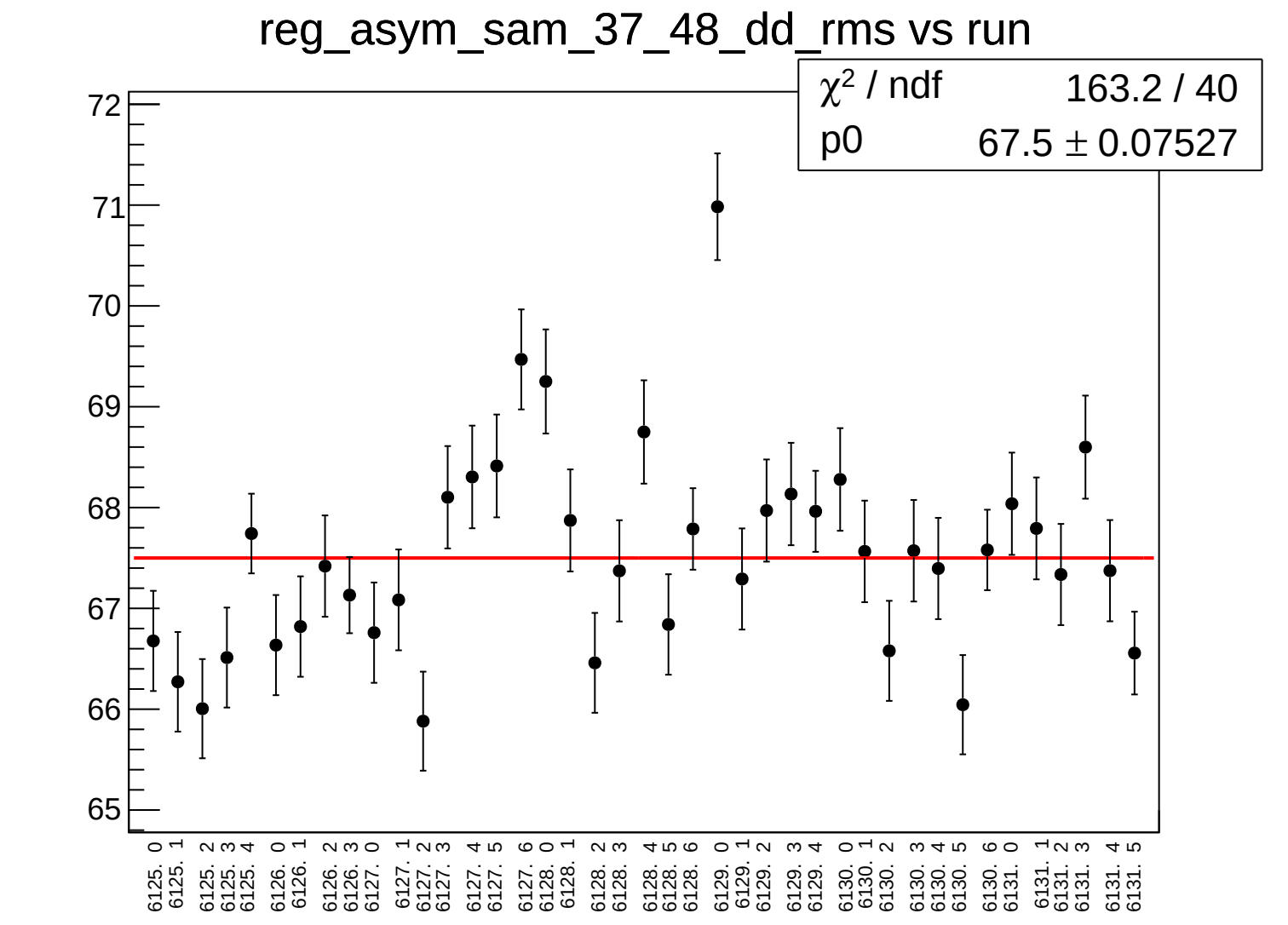

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 36.67 / 40
p0 1.235e−14 ± 4.428e−14
pull
Entries 41
Mean −0.5901
Std Dev 0

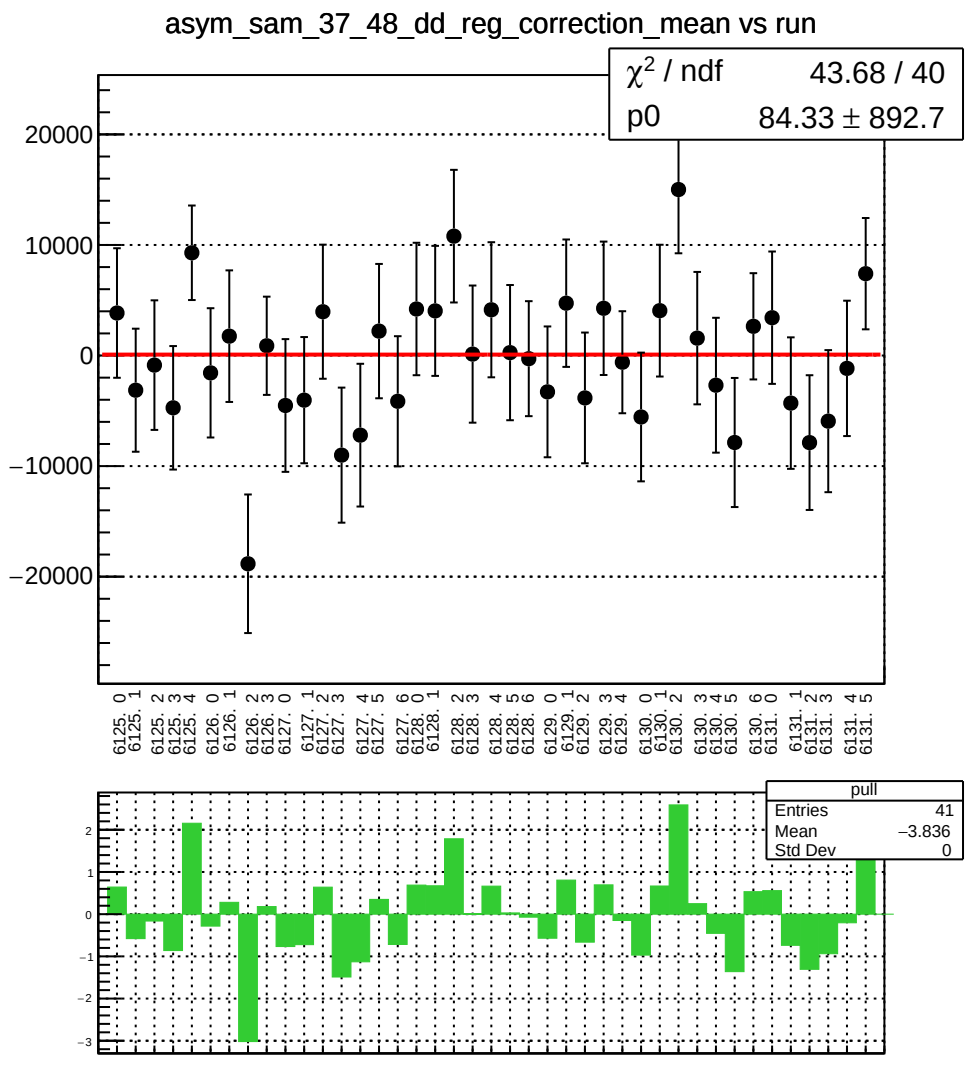

pull1D
Entries 41
Mean −0.1006
Std Dev 0.9404

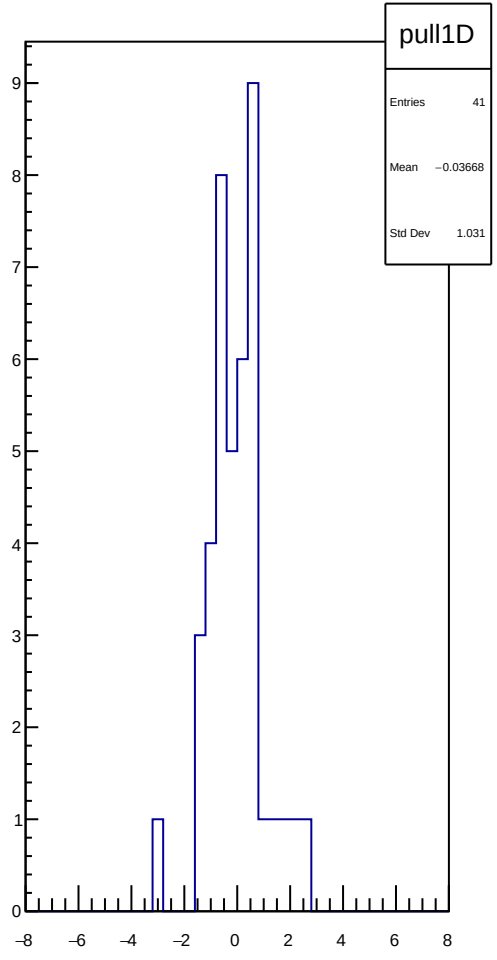

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.978e+05 / 40
p0 2.438e−11 ± 3.131e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

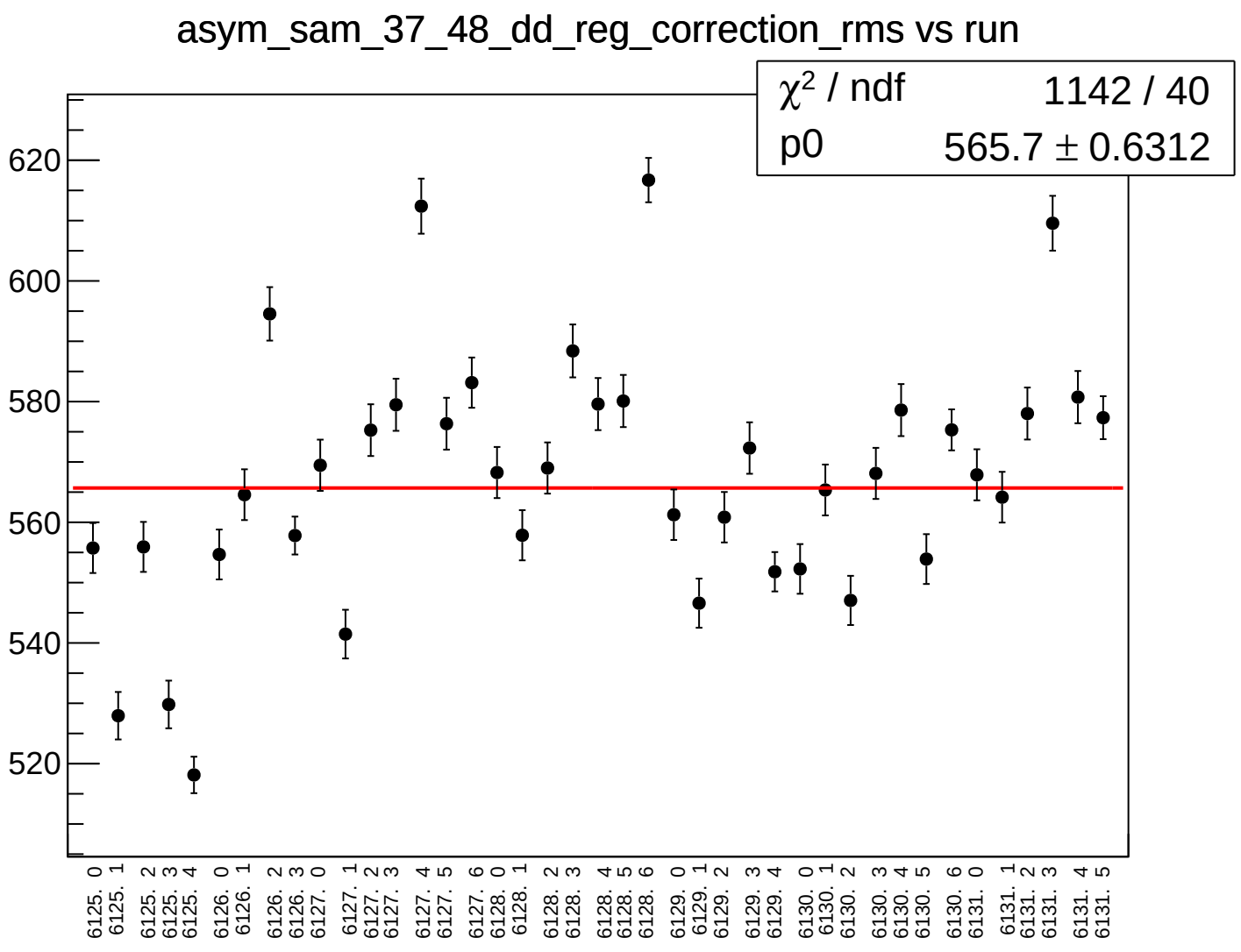

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 43.81 / 40
p0 34.88 ± 106.5
2000
1000
0
−1000
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 85.48
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

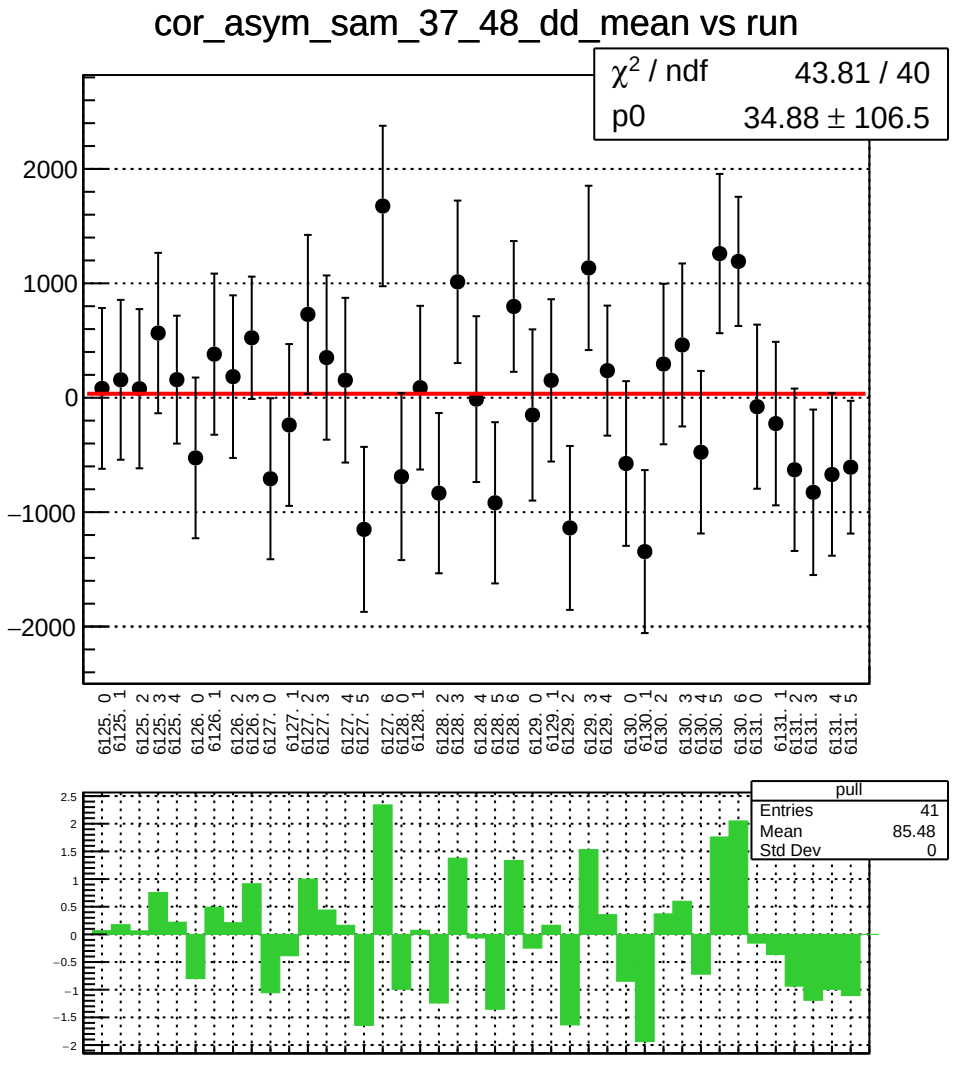

pull1D
Entries 41
Mean −0.02957
Std Dev 1.033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

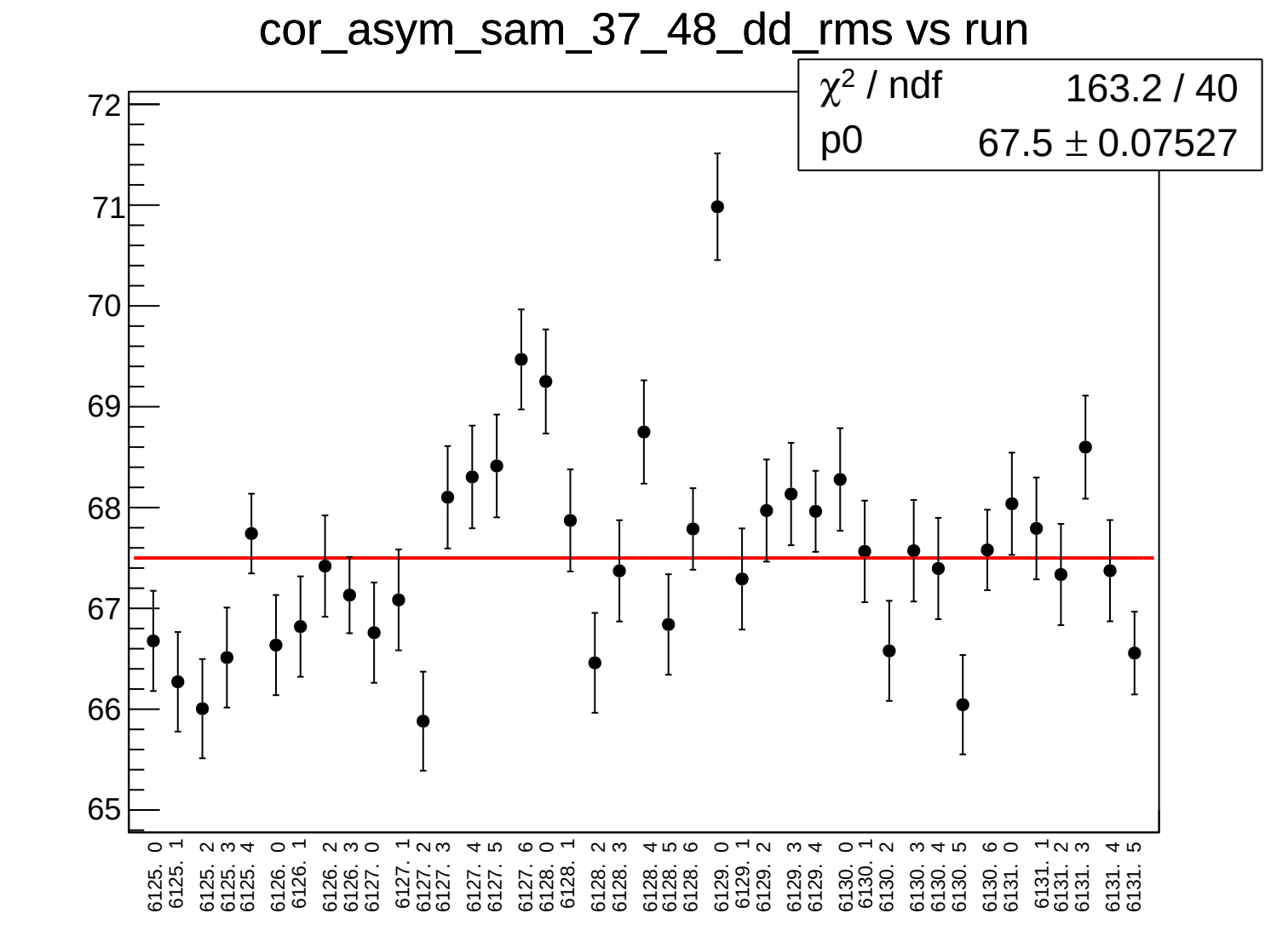

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 163.2 / 40
p0 67.5 ± 0.07527
72
71
70
69
68
67
66
65
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 43.68 / 40
p0 84.33 ± 892.7
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −3.836
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean −0.03668
Std Dev 1.031
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_correction_rms vs run
χ² / ndf 1142 / 40
p0 565.7 ± 0.6312
620
600
580
560
540
520
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 43.81 / 40
p0 34.88 ± 106.5
2000
1000
0
−1000
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 85.48
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.02957
Std Dev 1.033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 163.2 / 40
p0 67.5 ± 0.07527
72
71
70
69
68
67
66
65
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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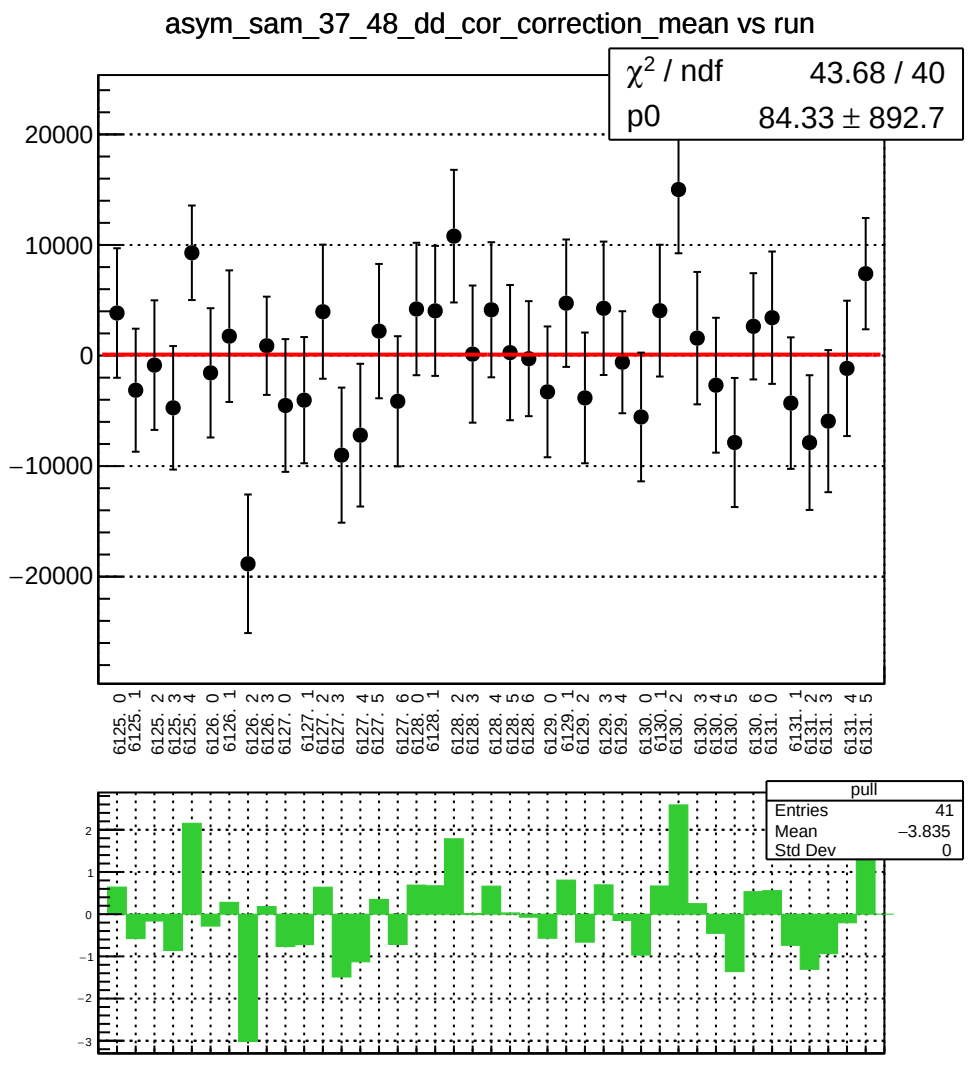
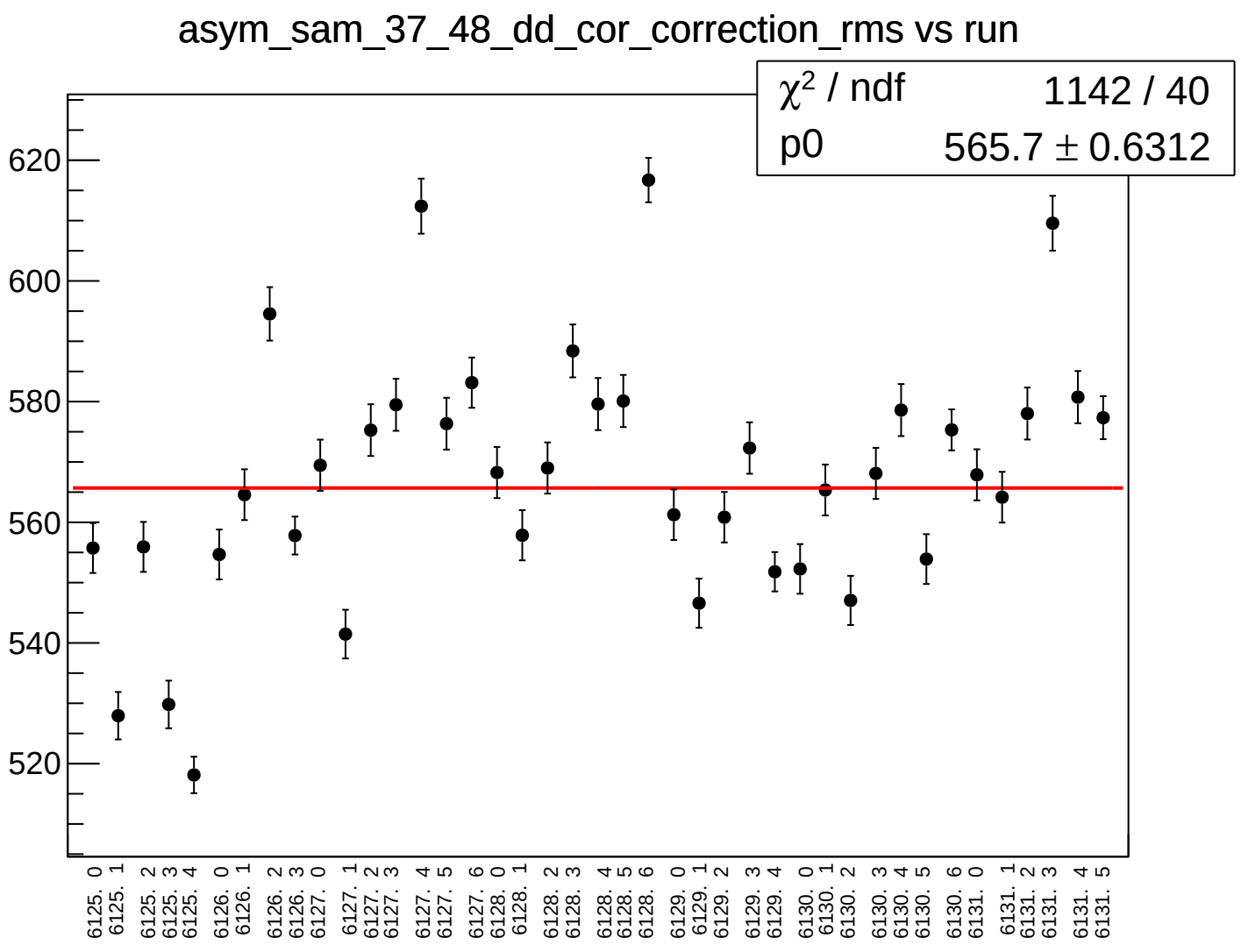
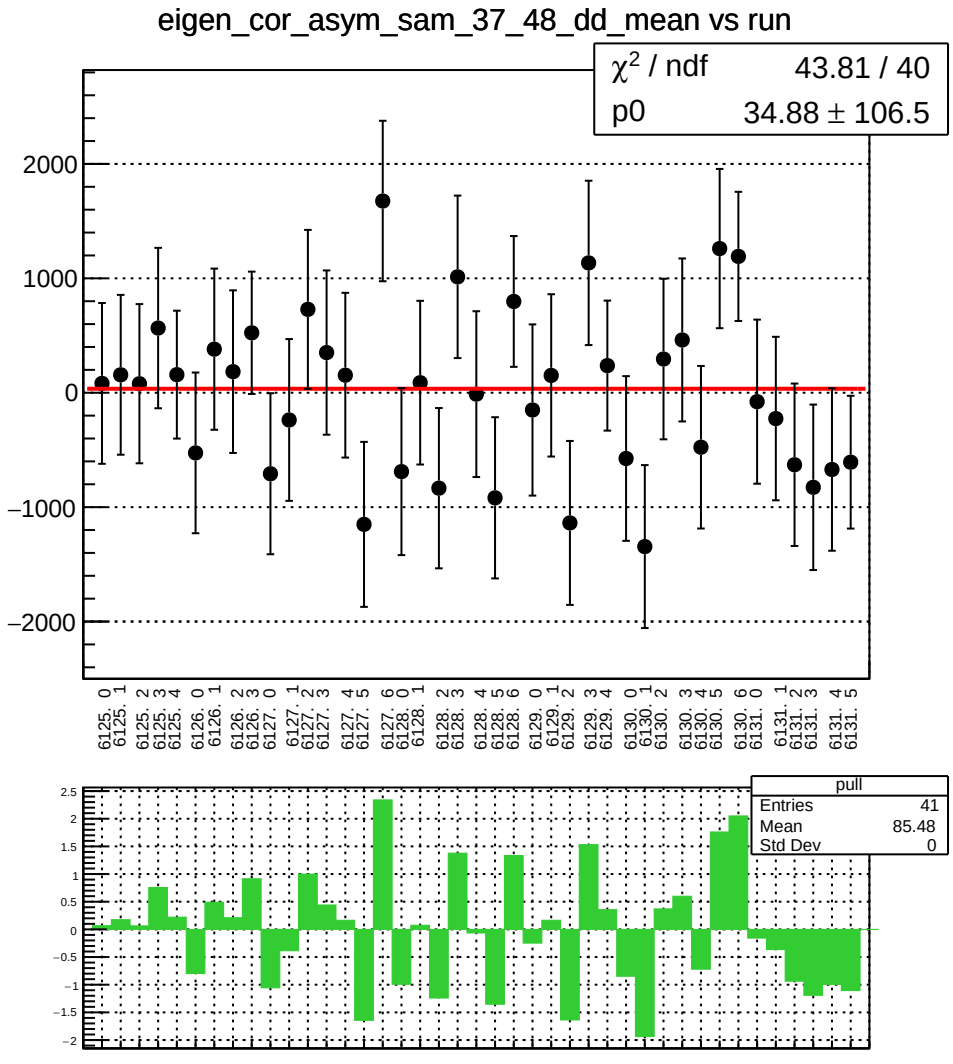
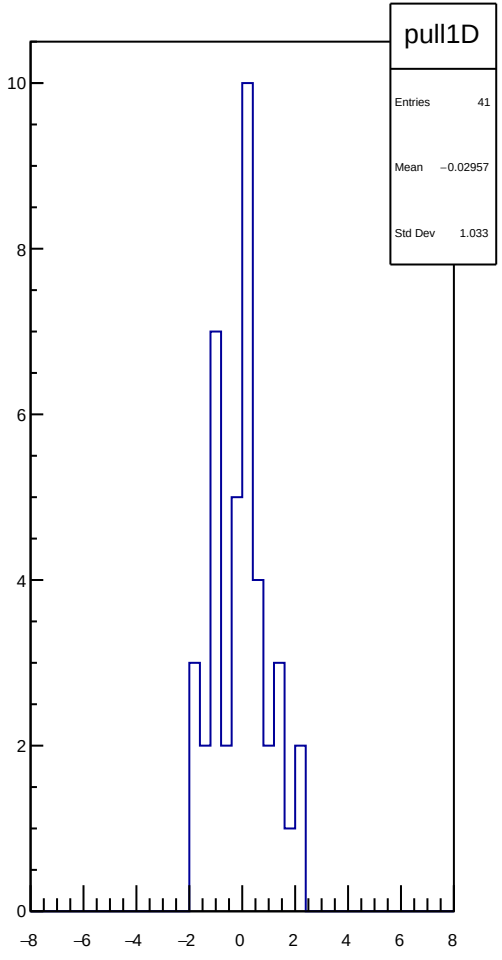
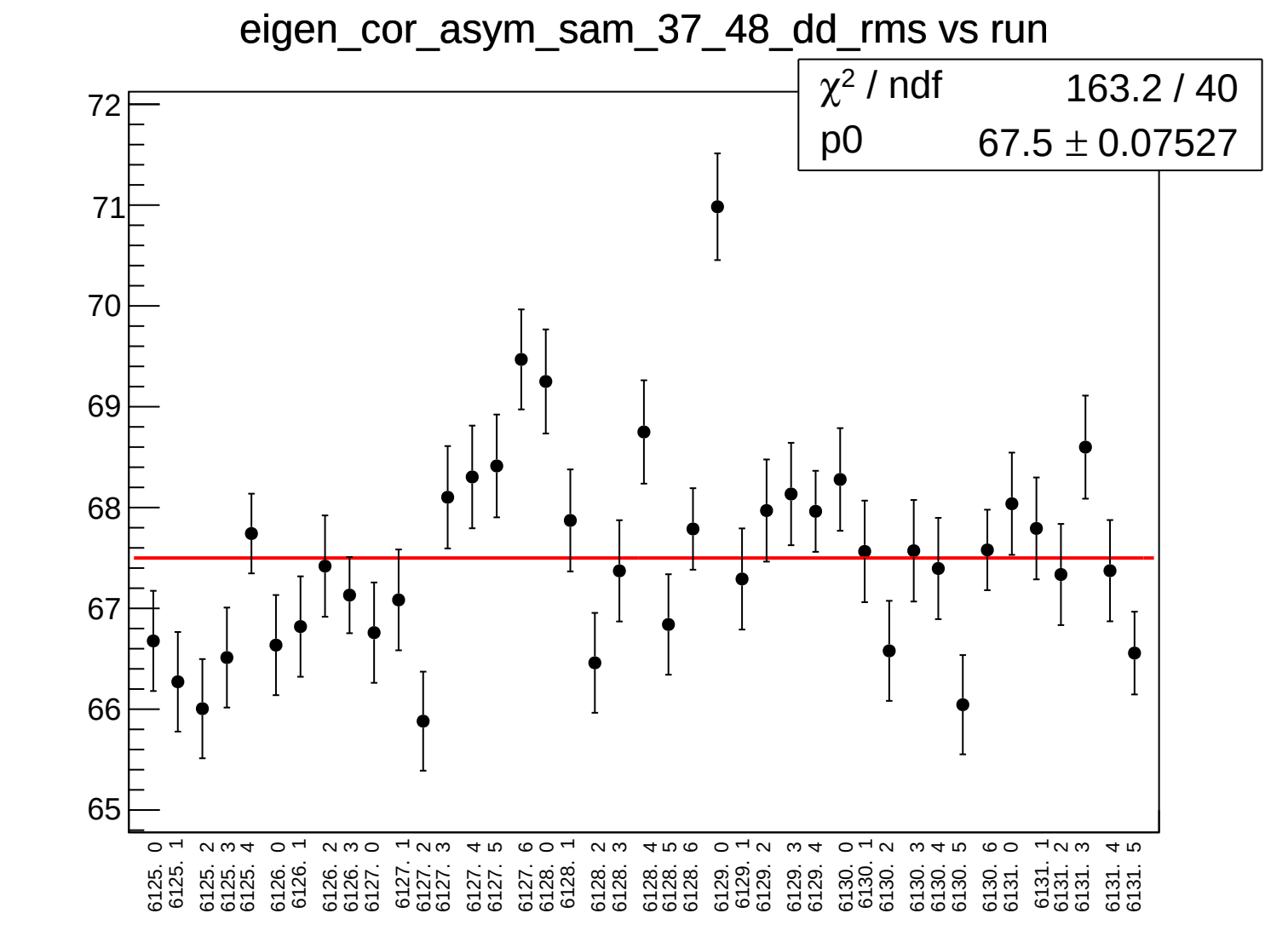
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

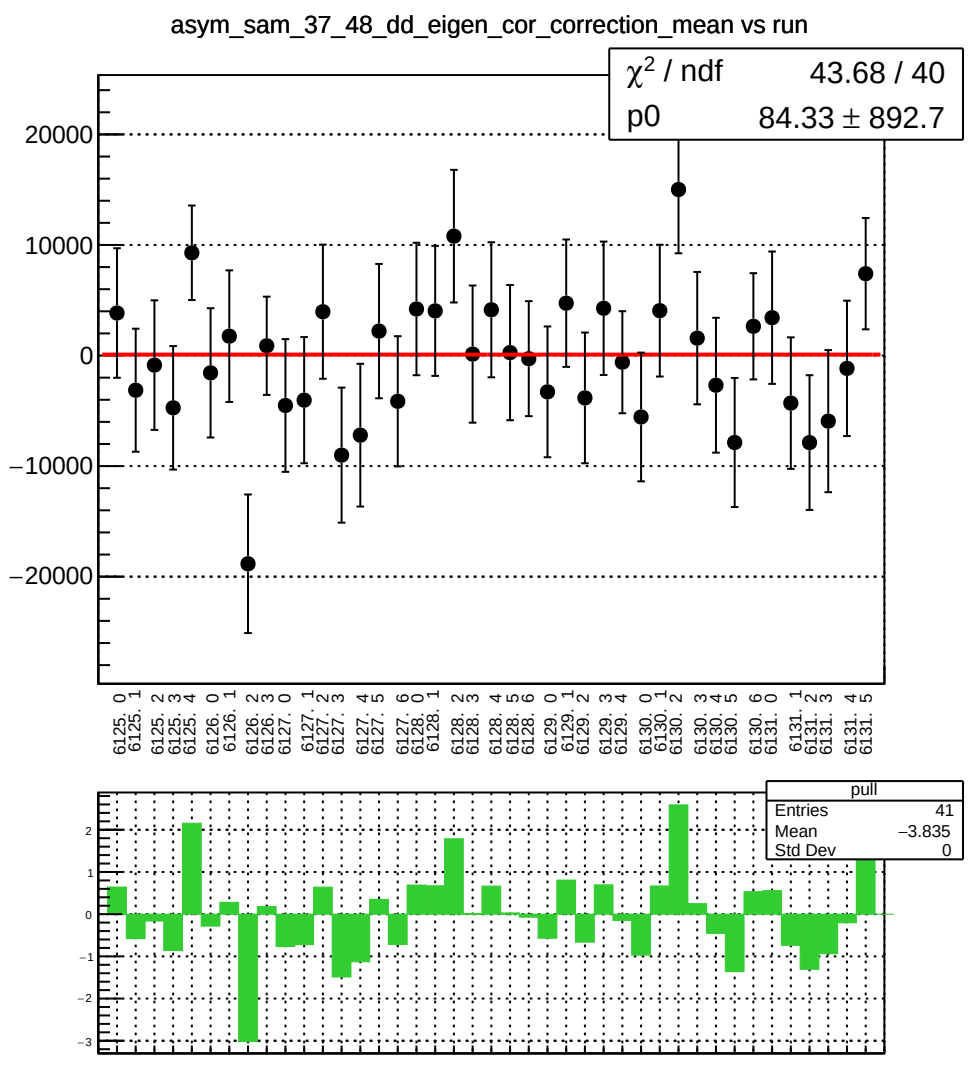

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 43.68 / 40
p0 84.33 ± 892.7
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −3.835
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean −0.03668
Std Dev 1.031
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

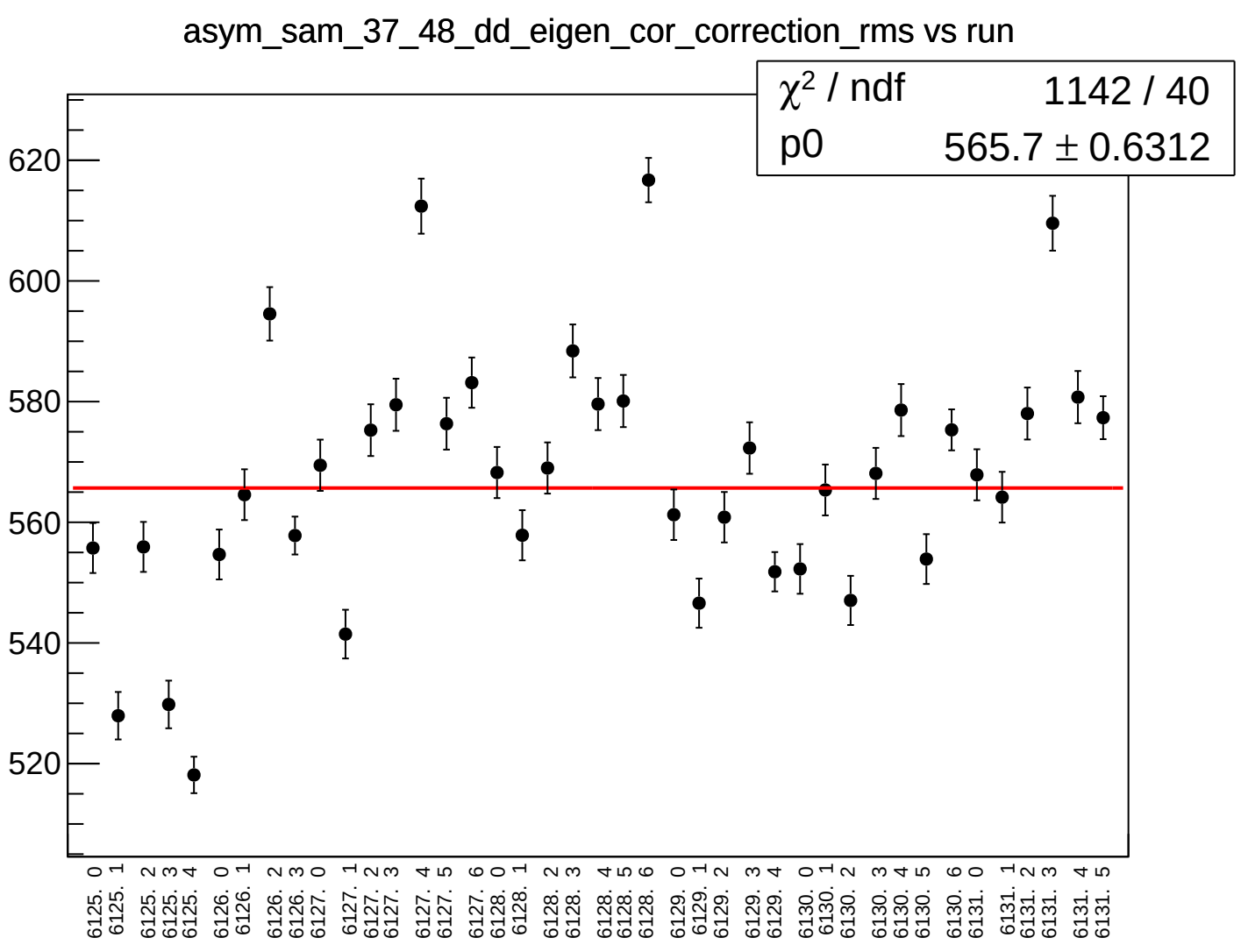

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 1142 / 40
p0 565.7 ± 0.6312
620
600
580
560
540
520
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

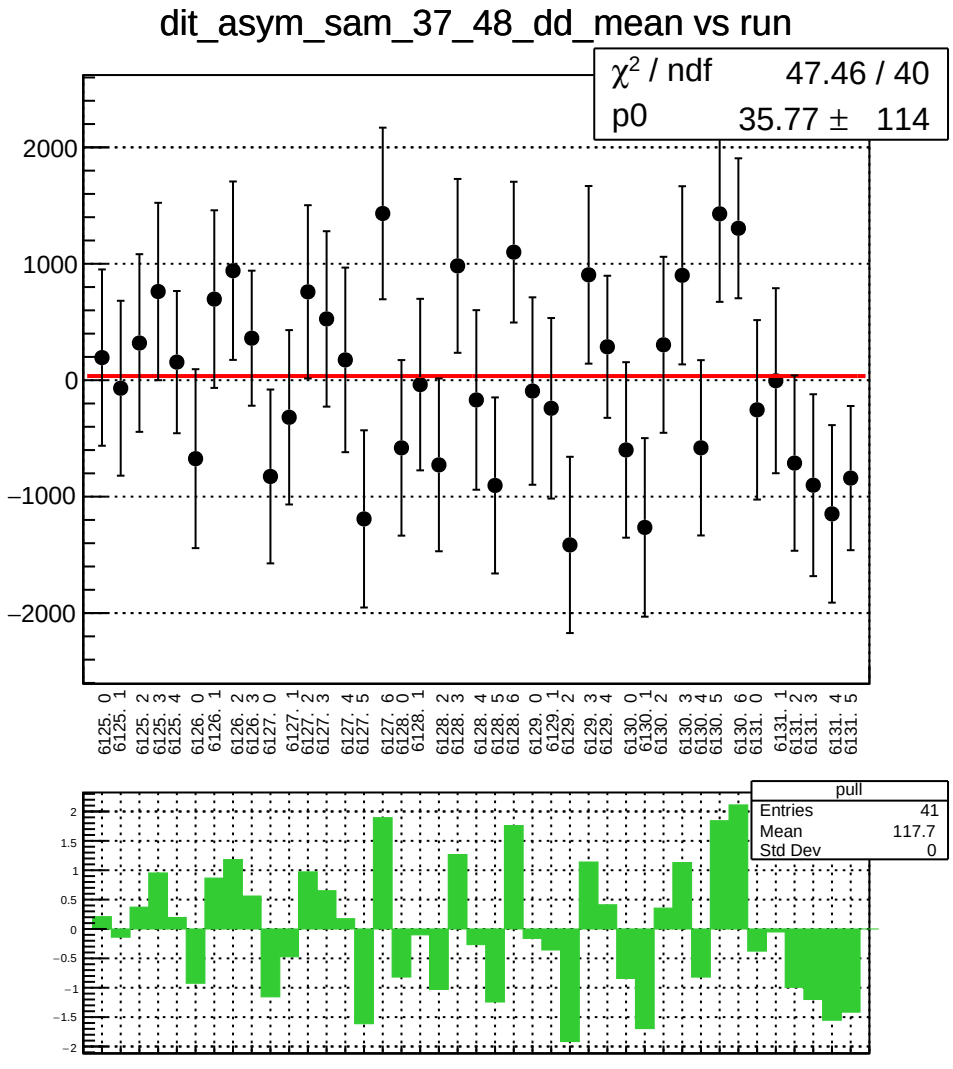

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 43.81 / 40
p0 34.88 ± 106.5
2000
1000
0
−1000
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 85.48
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

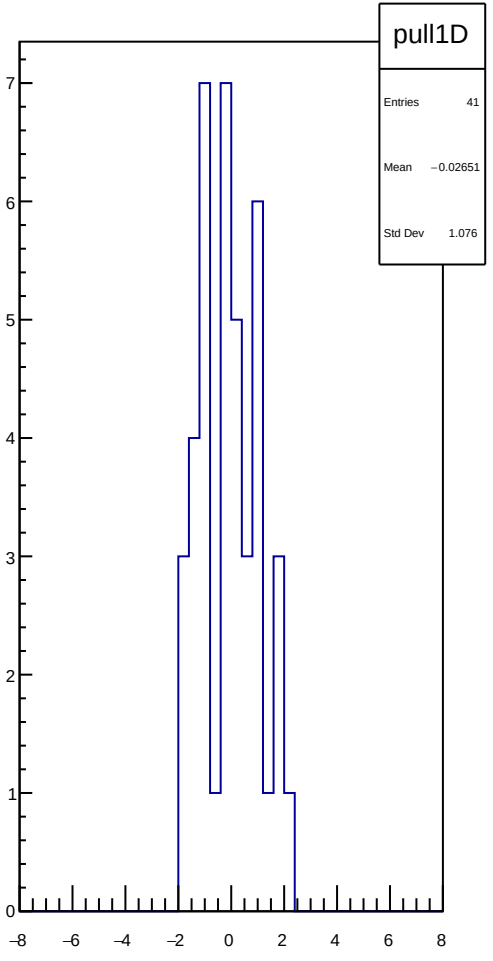

pull1D
Entries 41
Mean −0.02957
Std Dev 1.033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

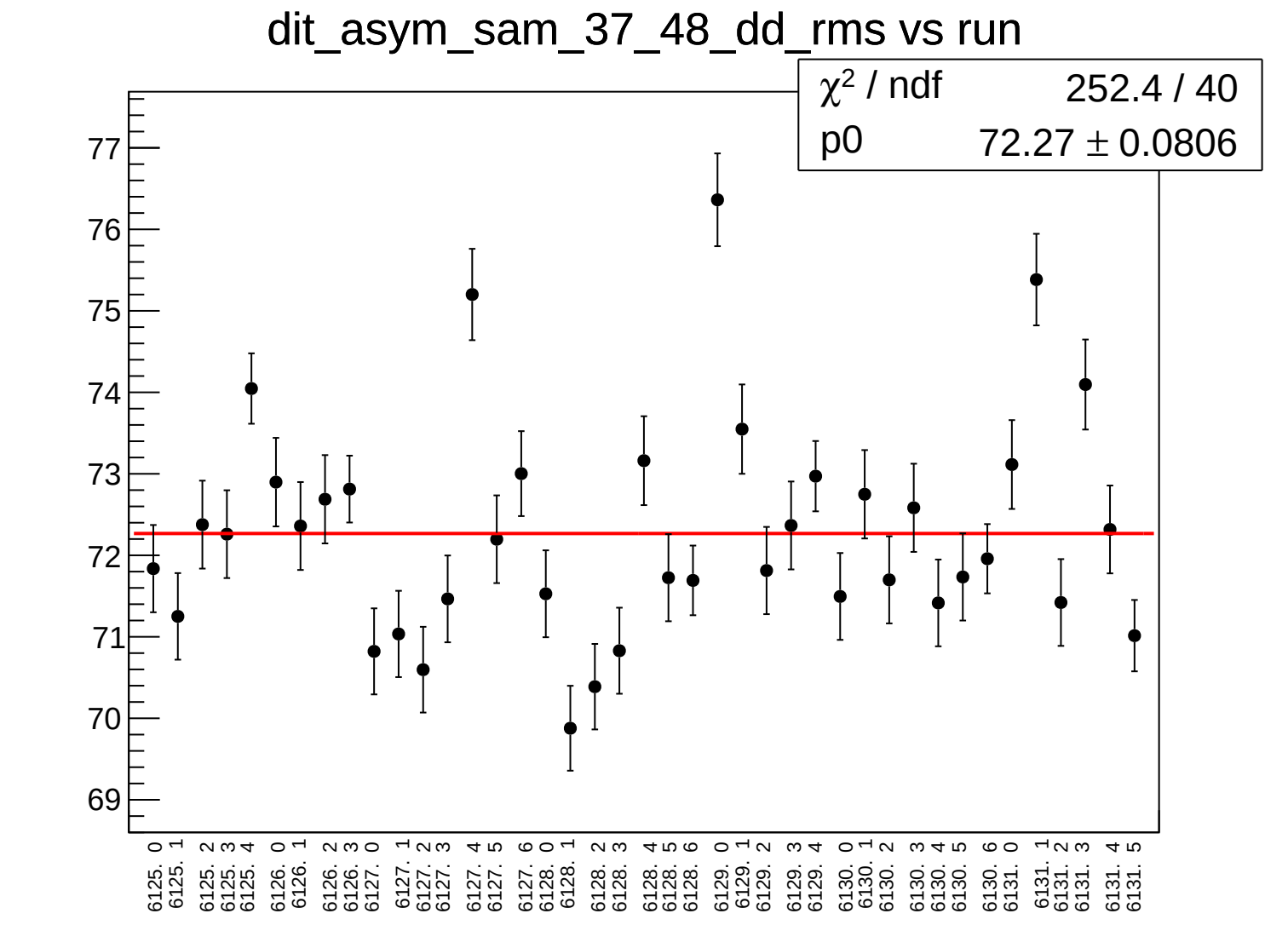

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 163.2 / 40
p0 67.5 ± 0.07527
72
71
70
69
68
67
66
65
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

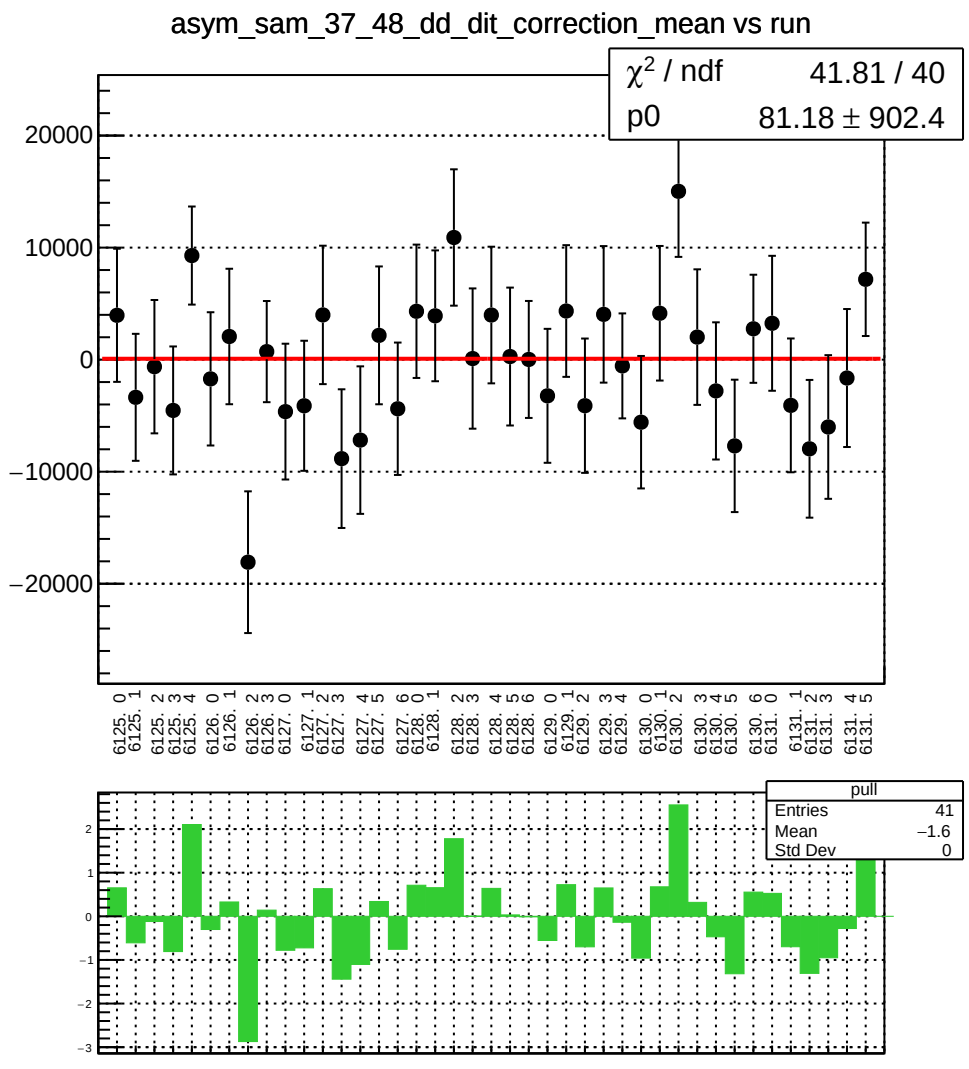

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 43.68 / 40
p0 84.33 ± 892.7
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −3.835
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean −0.03668
Std Dev 1.031
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

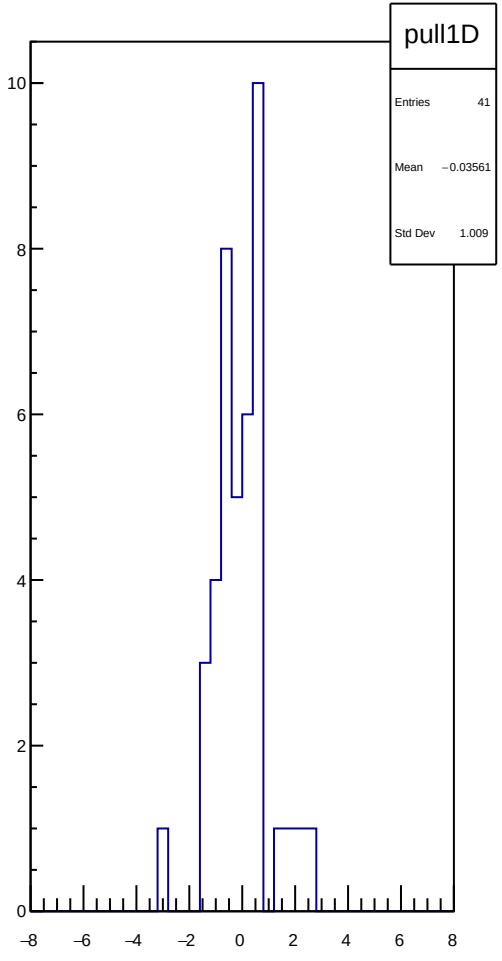

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1142 / 40
p0 565.7 ± 0.6312
620
600
580
560
540
520
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

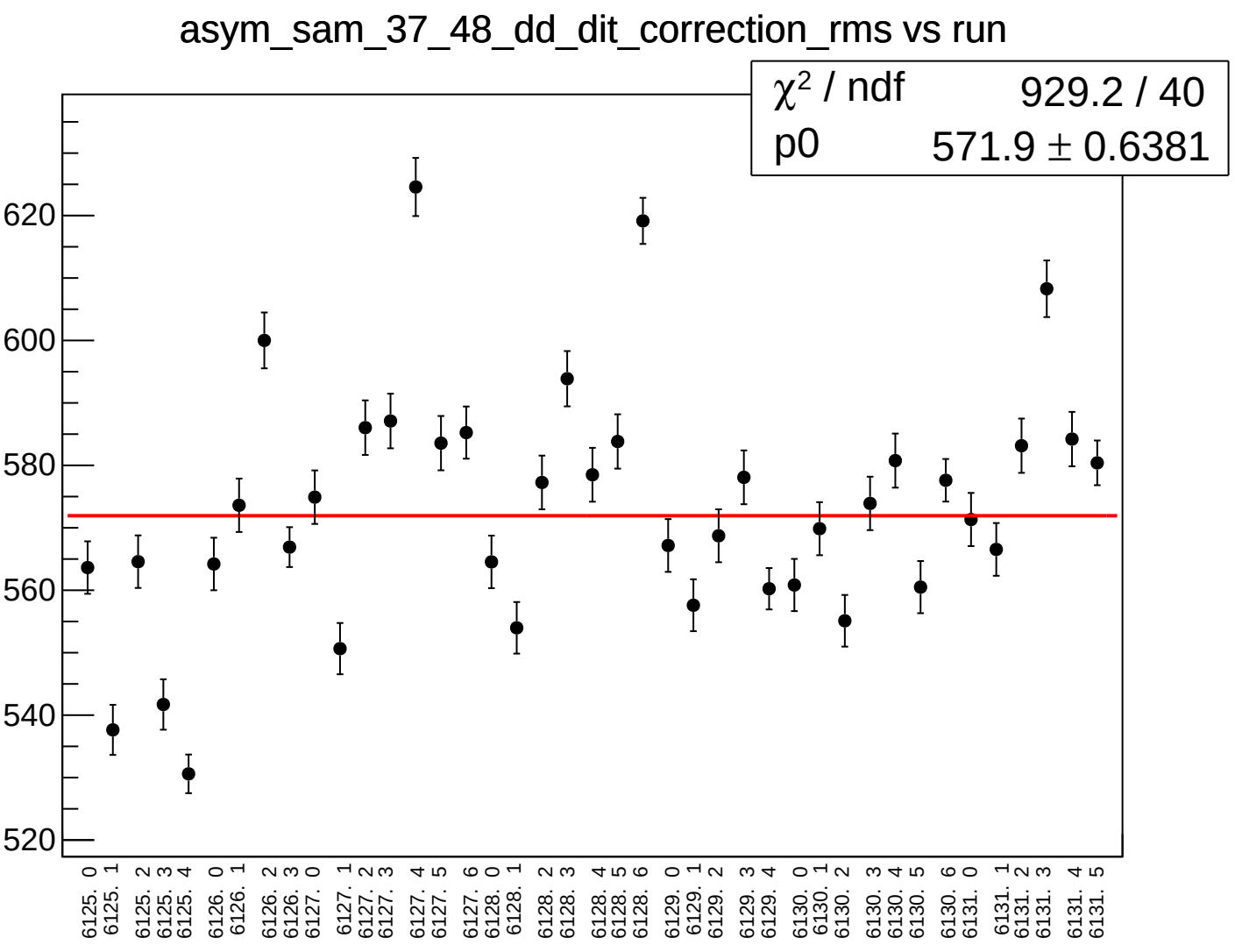

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 47.46 / 40
p0 35.77 ± 114
2000
1000
0
−1000
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 117.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

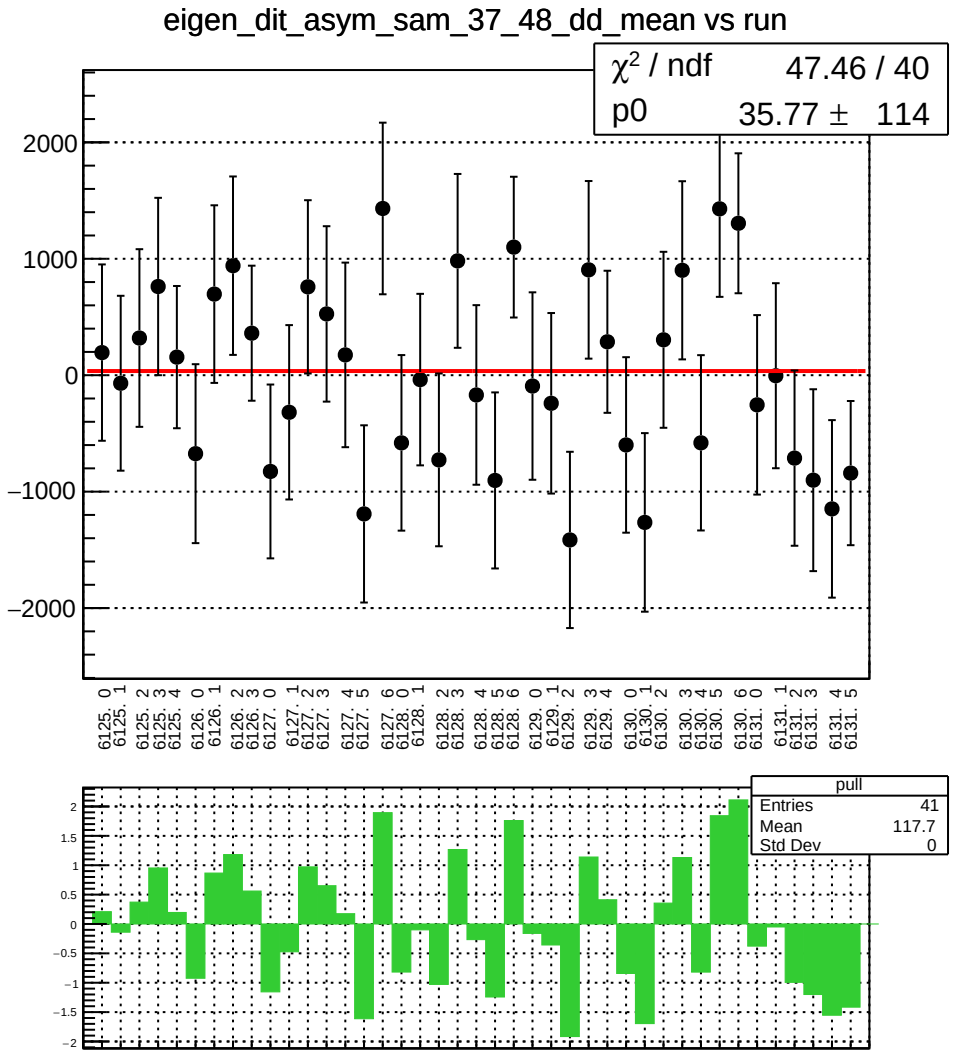

pull1D
Entries 41
Mean −0.02651
Std Dev 1.076
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

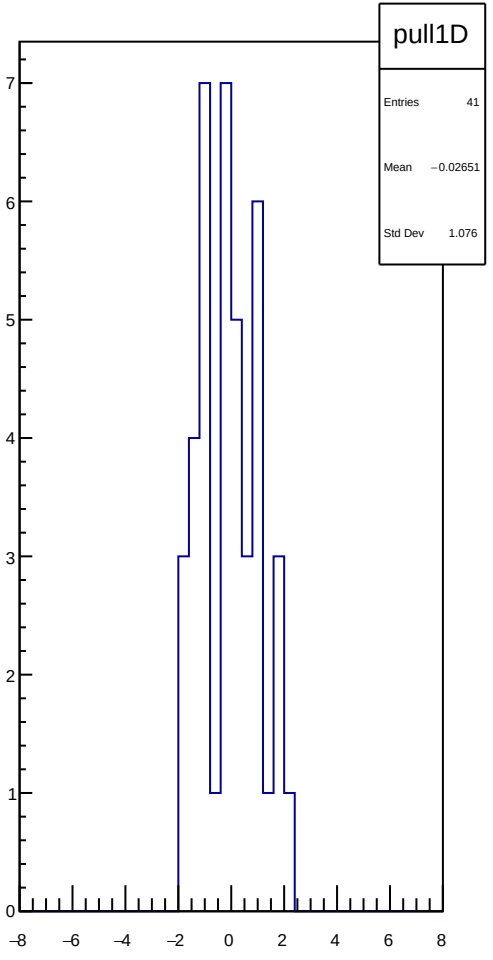

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 252.4 / 40
p0 72.27 ± 0.0806
77
76
75
74
73
72
71
70
69
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

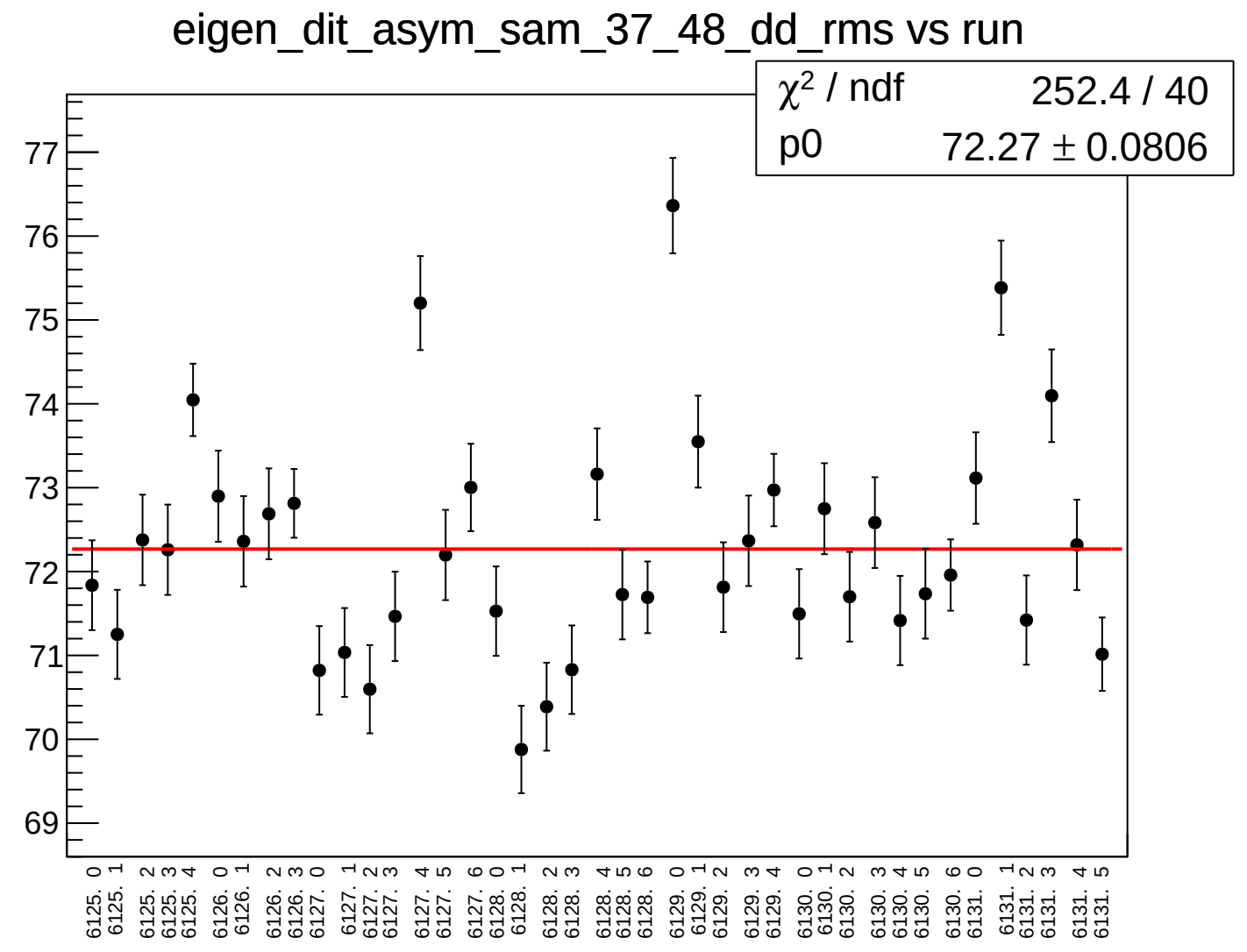

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 41.81 / 40
p0 81.18 ± 902.4
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1.6
Std Dev 0
2
1
0
−1
−2
−3

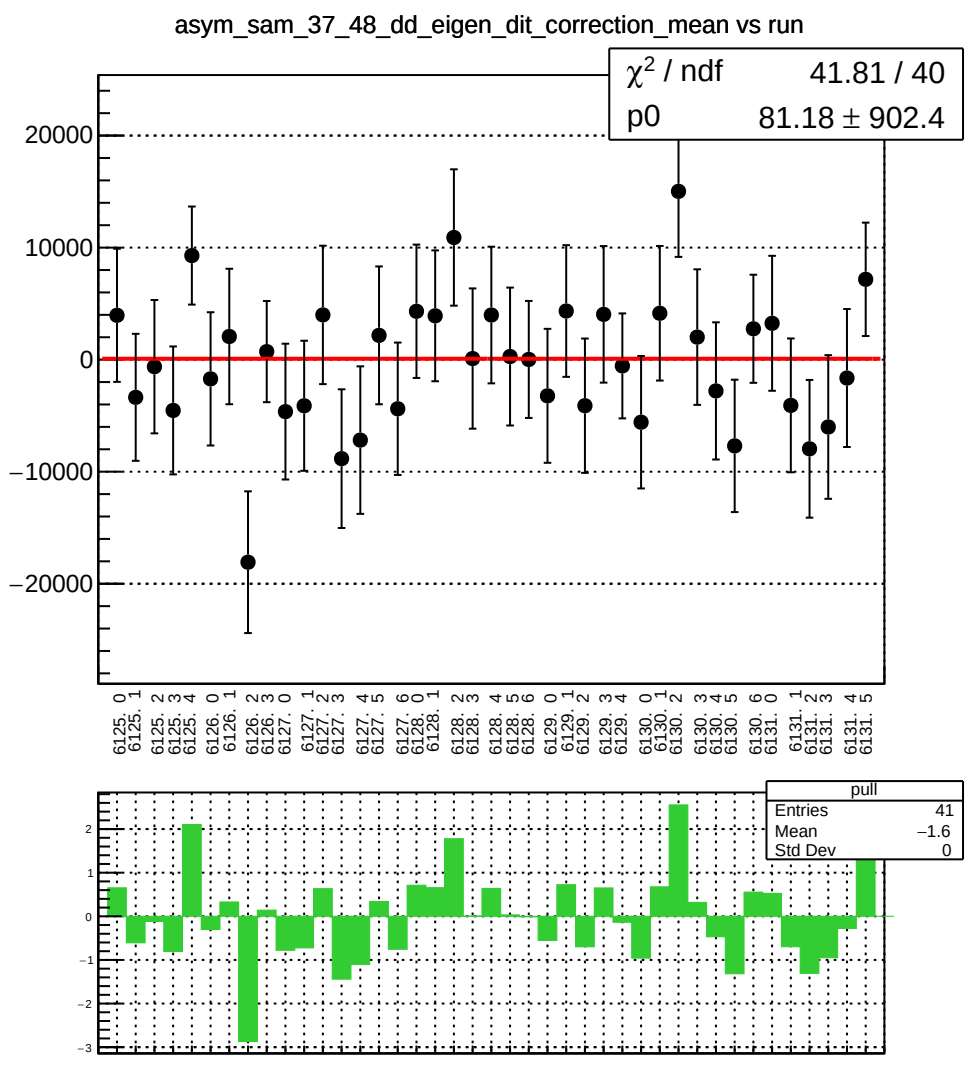

pull1D
Entries 41
Mean −0.03561
Std Dev 1.009
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

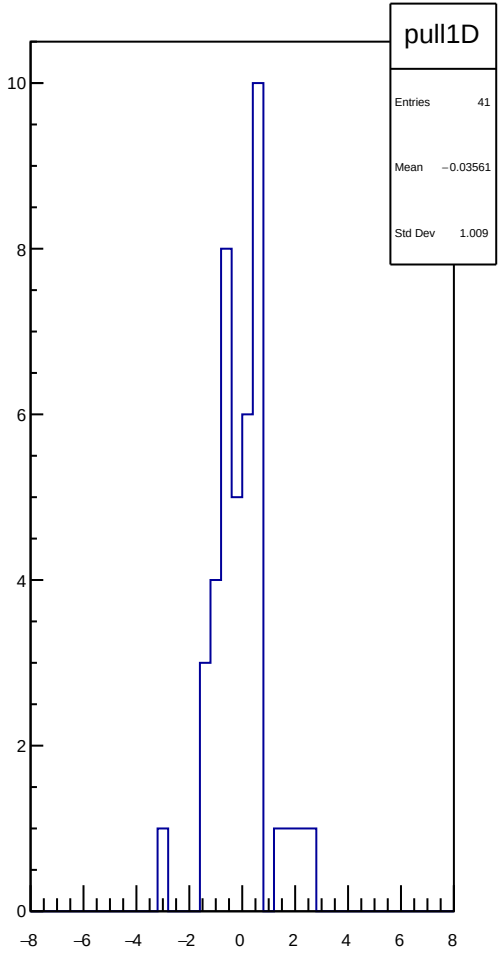

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 929.2 / 40
p0 571.9 ± 0.6381
620
600
580
560
540
520
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

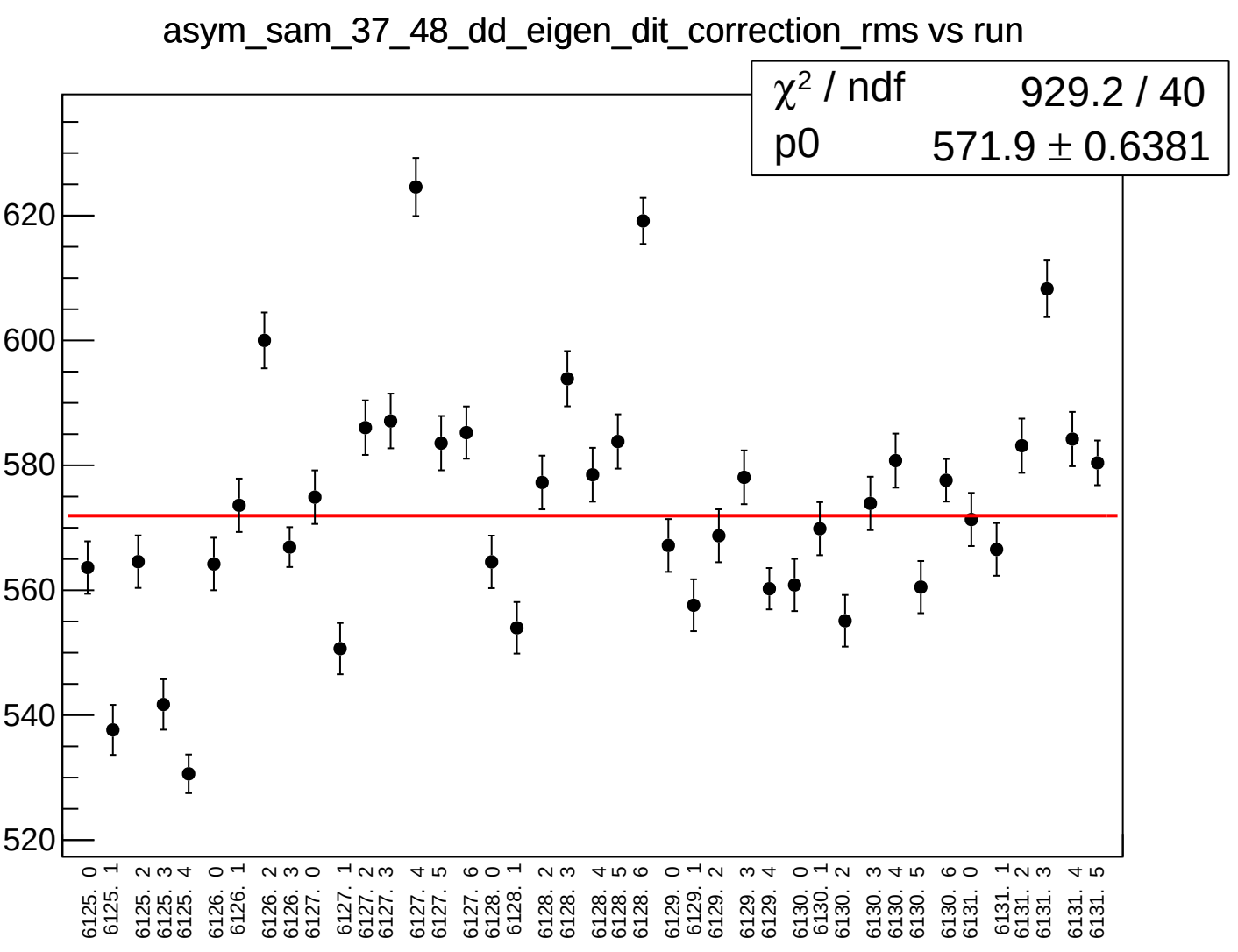

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 47.46 / 40
p0 35.77 ± 114
2000
1000
0
−1000
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 117.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

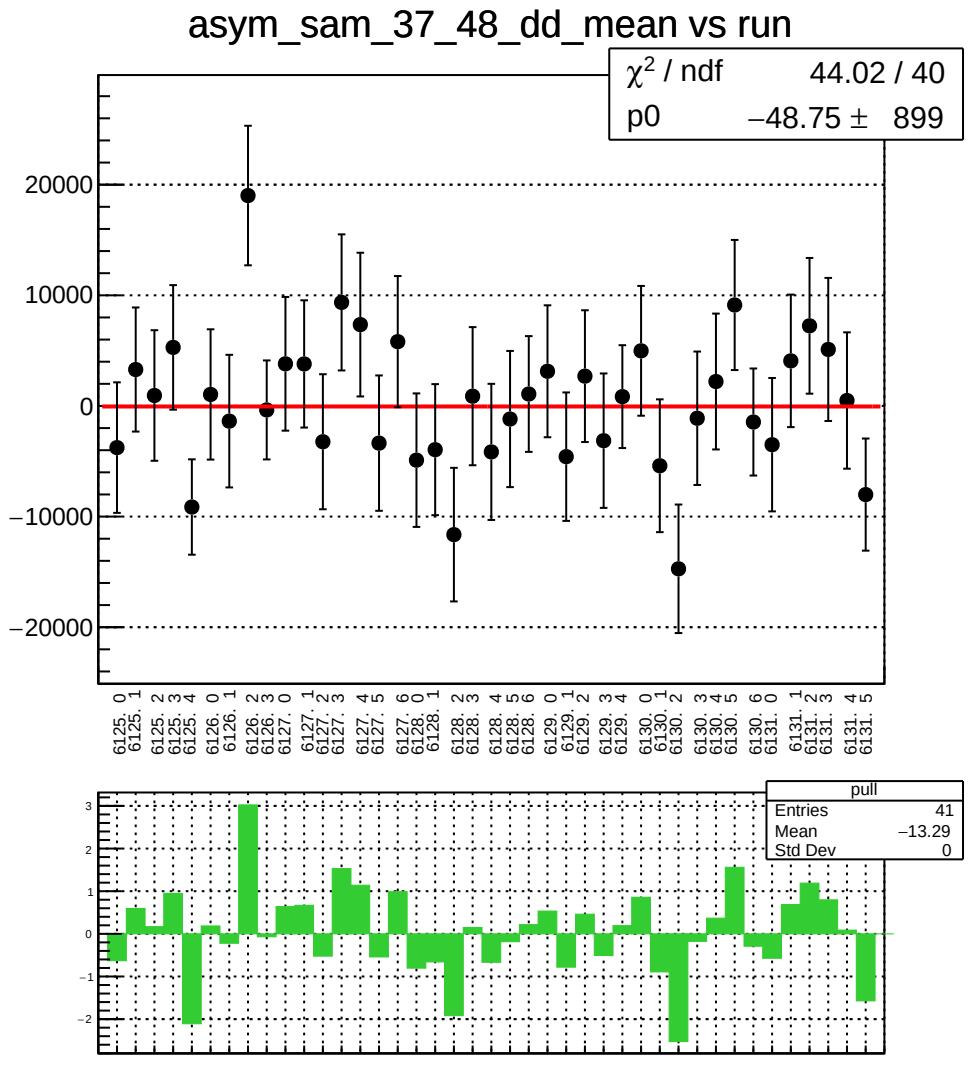

pull1D
Entries 41
Mean −0.02651
Std Dev 1.076
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

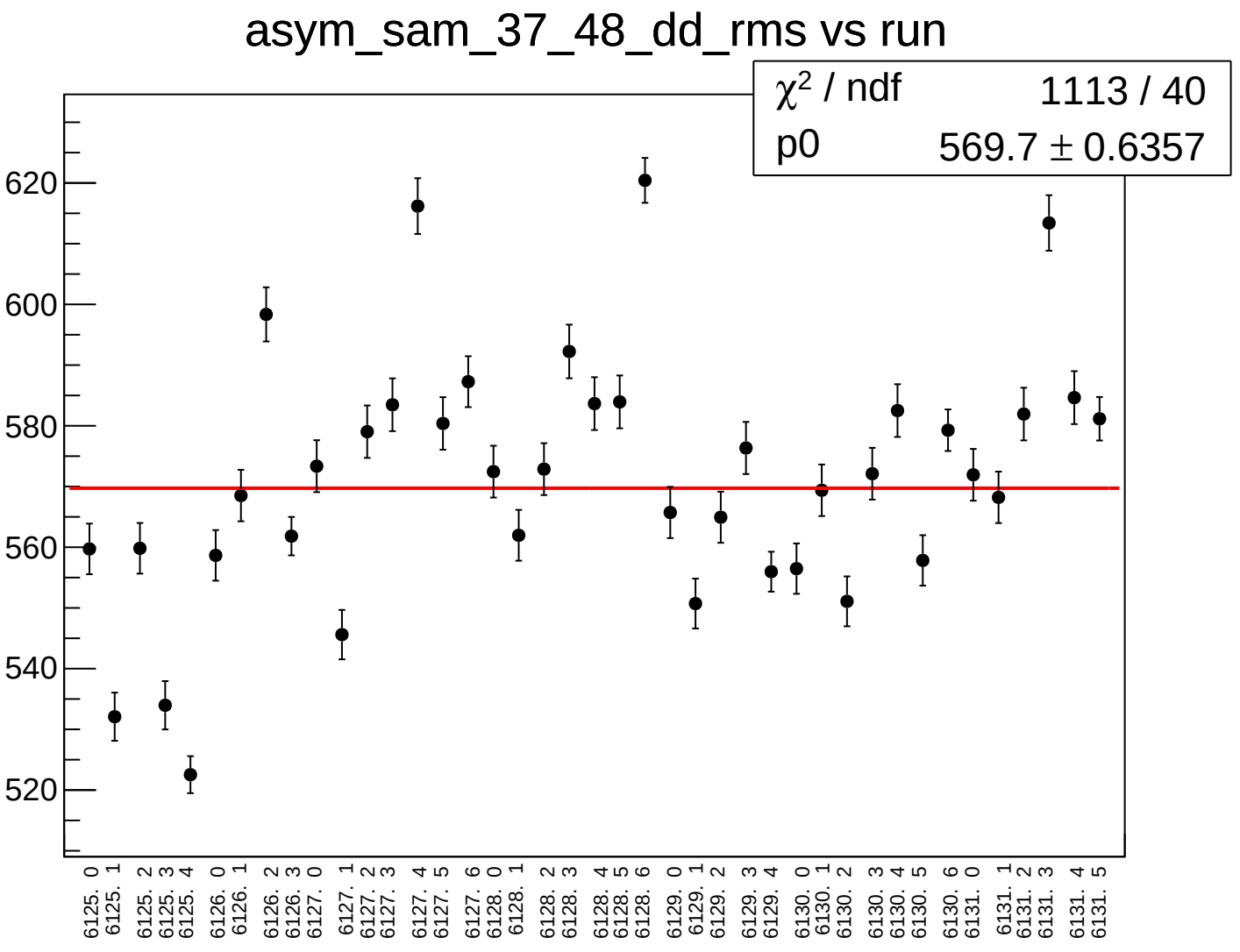

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 252.4 / 40
p0 72.27 ± 0.0806
77
76
75
74
73
72
71
70
69
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

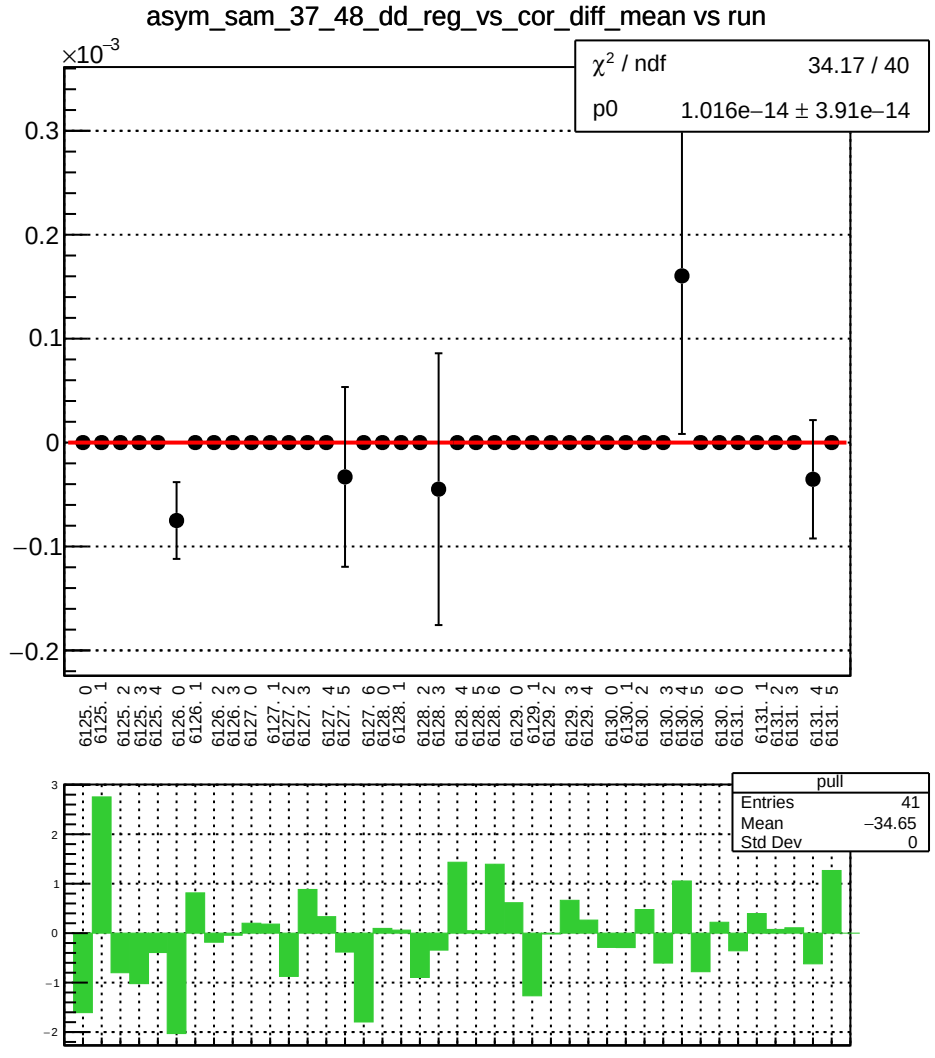

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 41.81 / 40
p0 81.18 ± 902.4
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1.6
Std Dev 0
2
1
0
−1
−2
−3

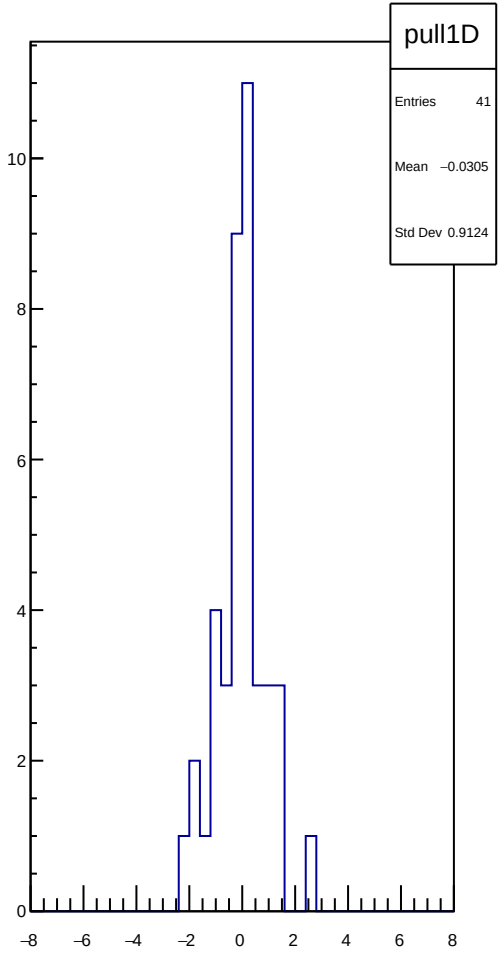

pull1D
Entries 41
Mean −0.03561
Std Dev 1.009
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

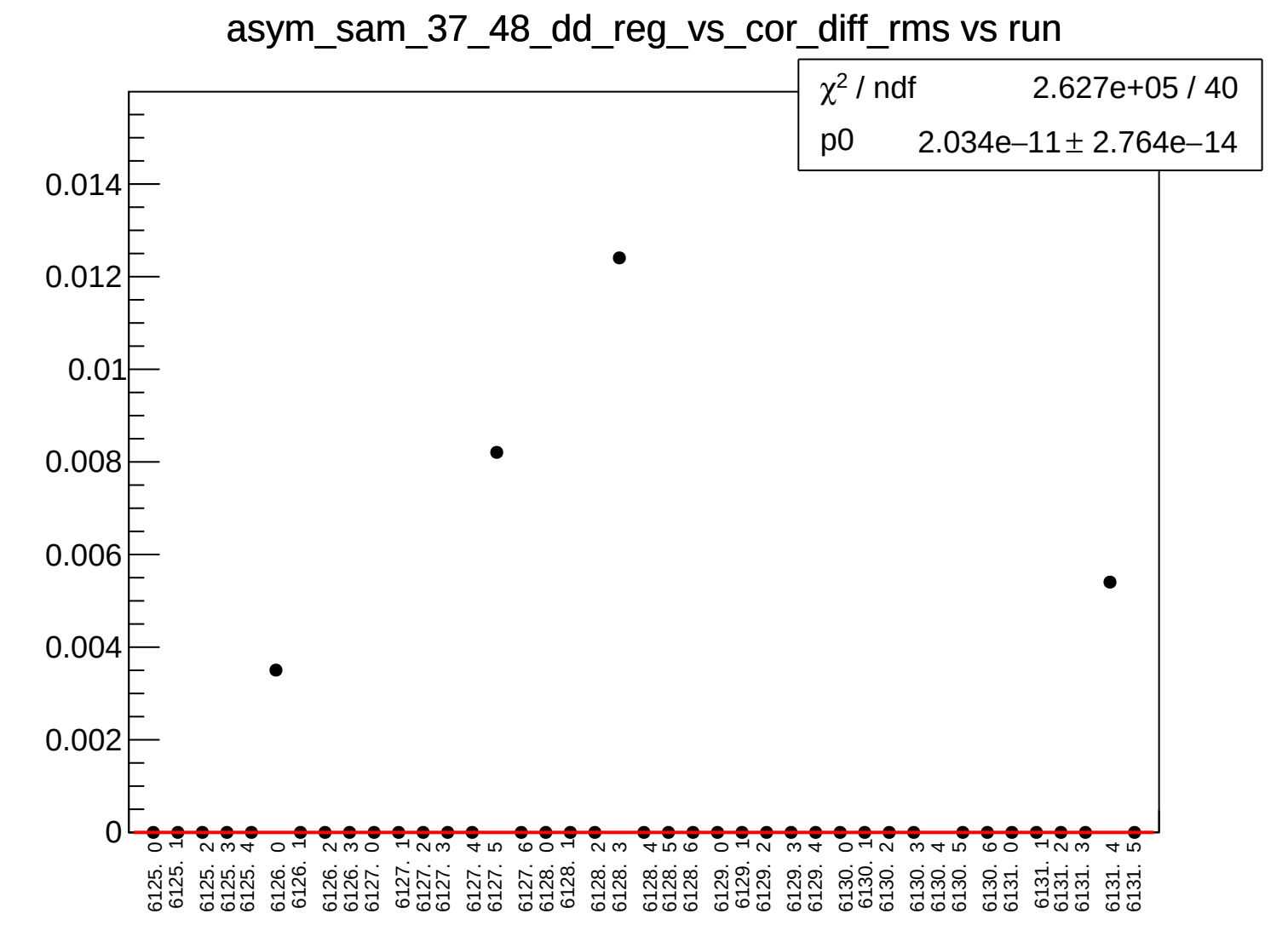

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 929.2 / 40
p0 571.9 ± 0.6381
620
600
580
560
540
520
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

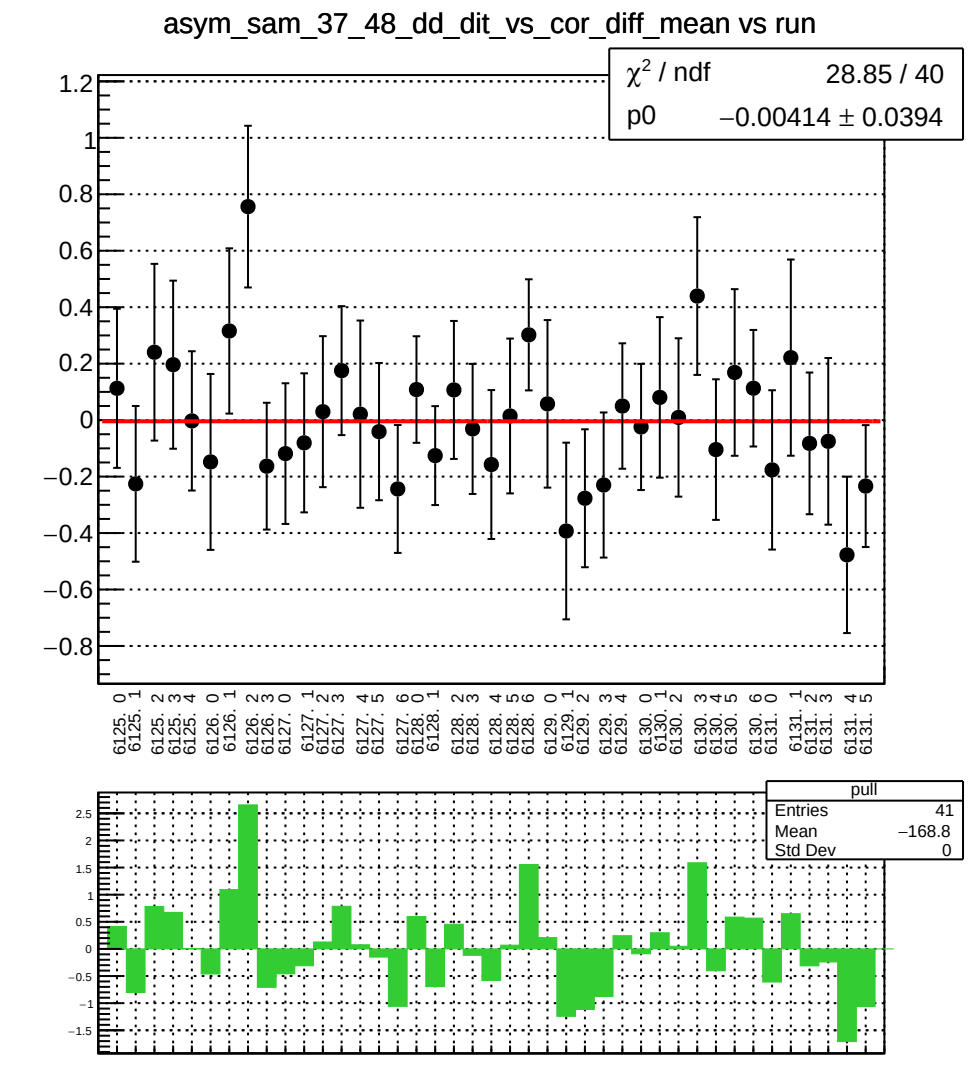

asym_sam_37_48_dd_mean vs run
χ² / ndf 44.02 / 40
p0 −48.75 ± 899
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −13.29
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.03287
Std Dev 1.036
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

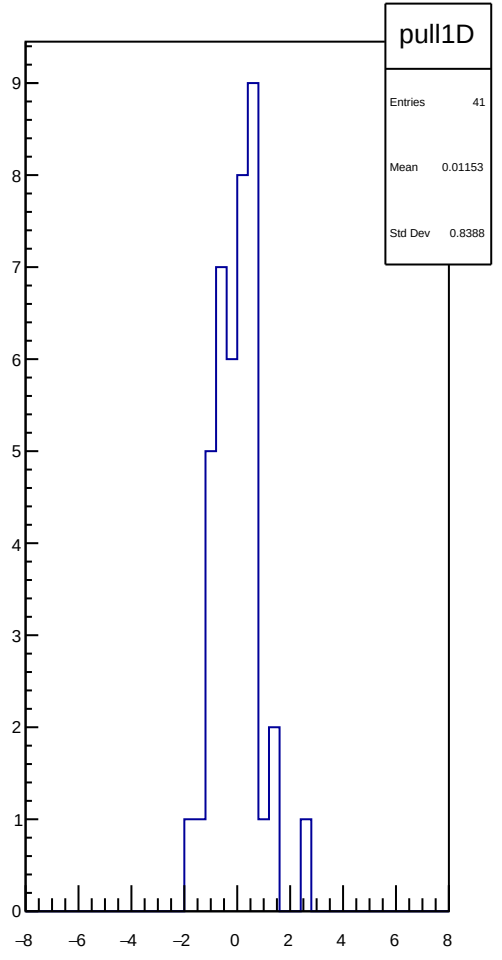

asym_sam_37_48_dd_rms vs run
χ² / ndf 1113 / 40
p0 569.7 ± 0.6357
620
600
580
560
540
520
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

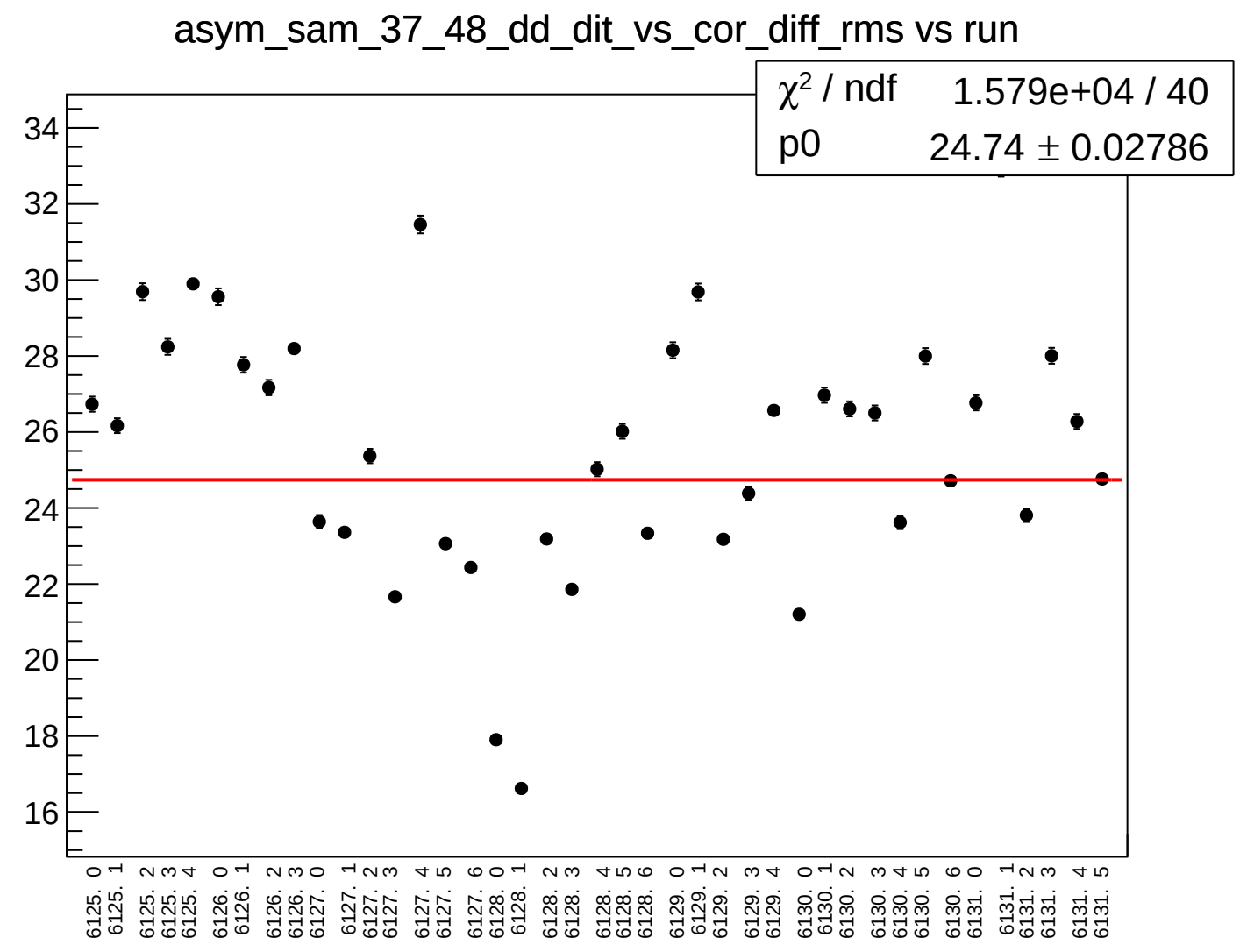

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 34.17 / 40
p0 1.016e−14 ± 3.91e−14
0.3
0.2
0.1
0
−0.1
−0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −34.65
Std Dev 0
3
2
1
0
−1
−2

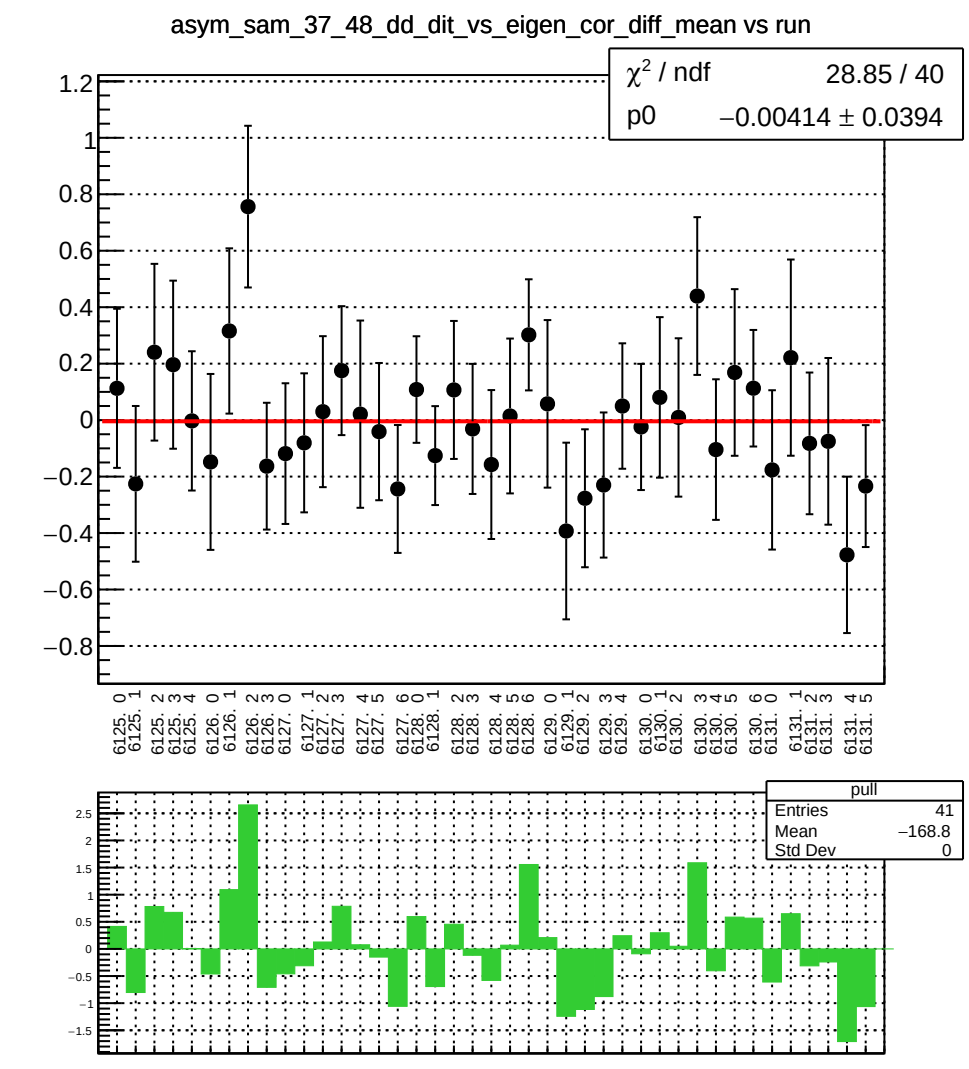

pull1D
Entries 41
Mean −0.0305
Std Dev 0.9124
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

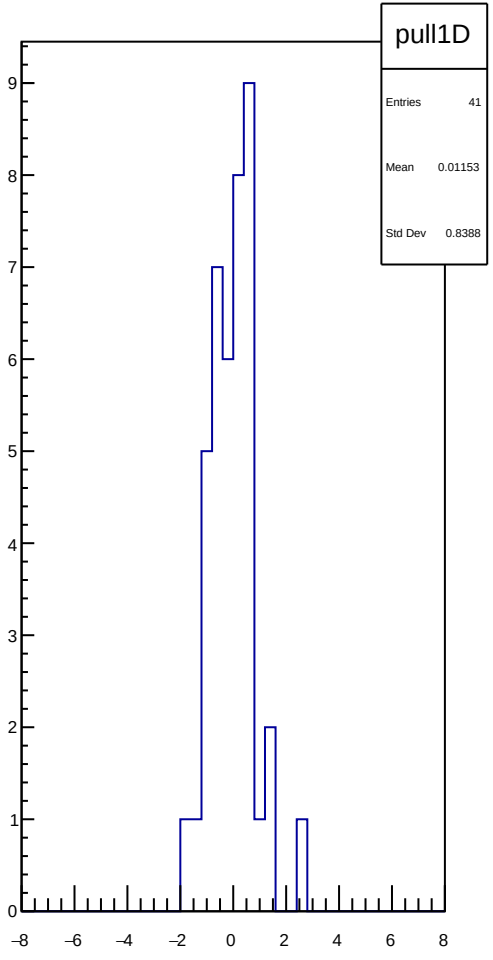

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.627e+05 / 40
p0 2.034e−11 ± 2.764e−14
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

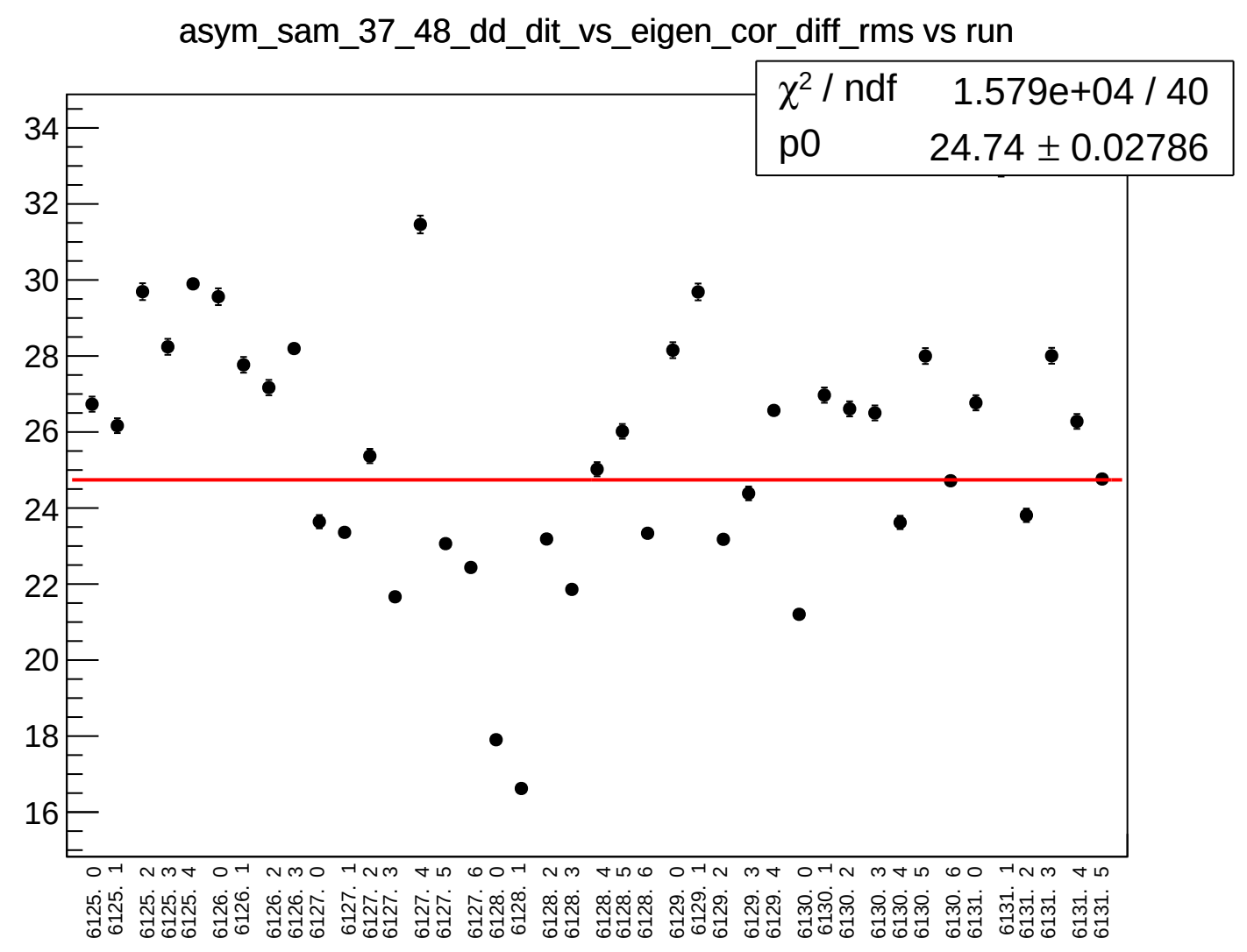

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 28.85 / 40
p0 −0.00414 ± 0.0394
pull
Entries 41
Mean −168.8
Std Dev 0

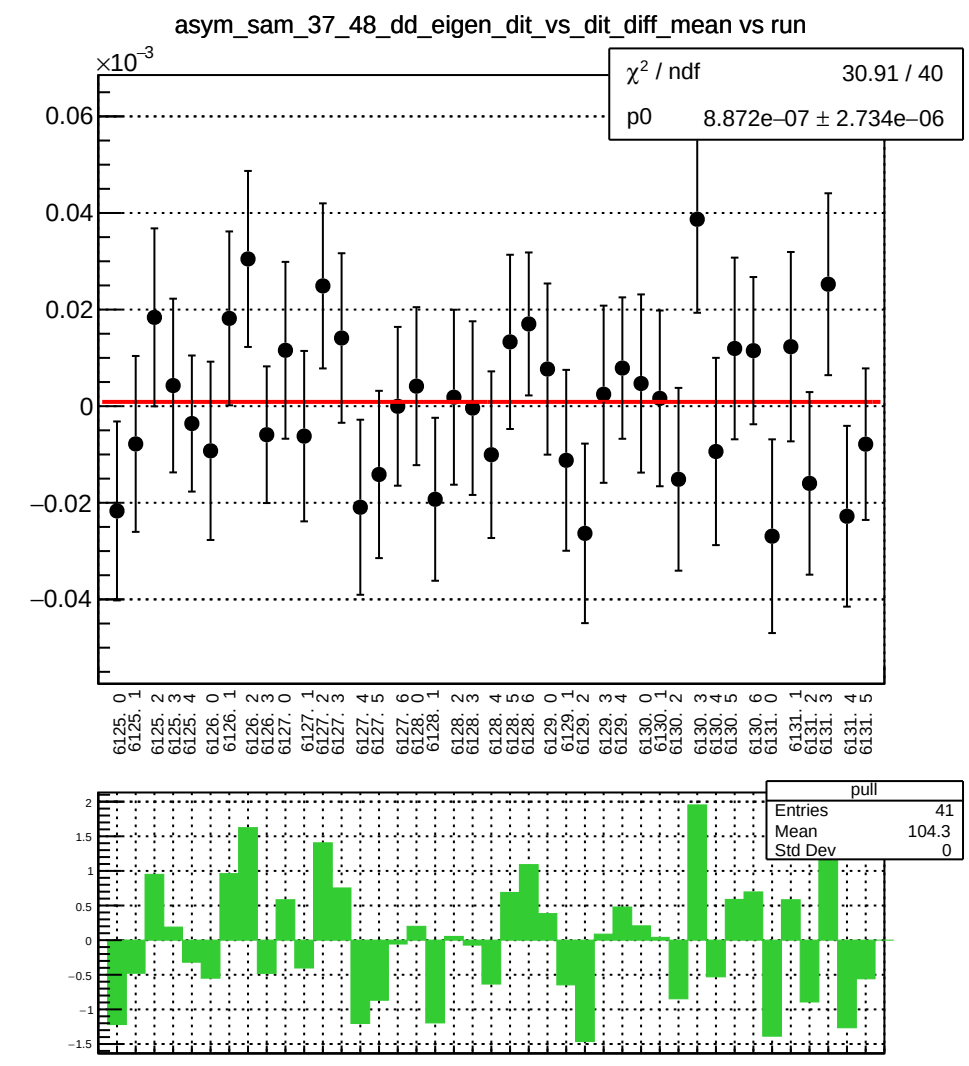

pull1D
Entries 41
Mean 0.01153
Std Dev 0.8388

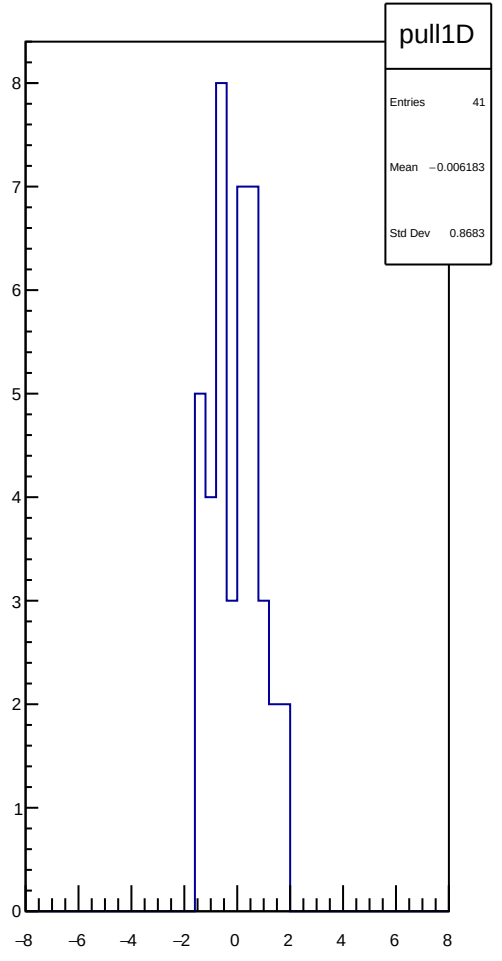

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.579e+04 / 40
p0 24.74 ± 0.02786
34
32
30
28
26
24
22
20
18
16
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

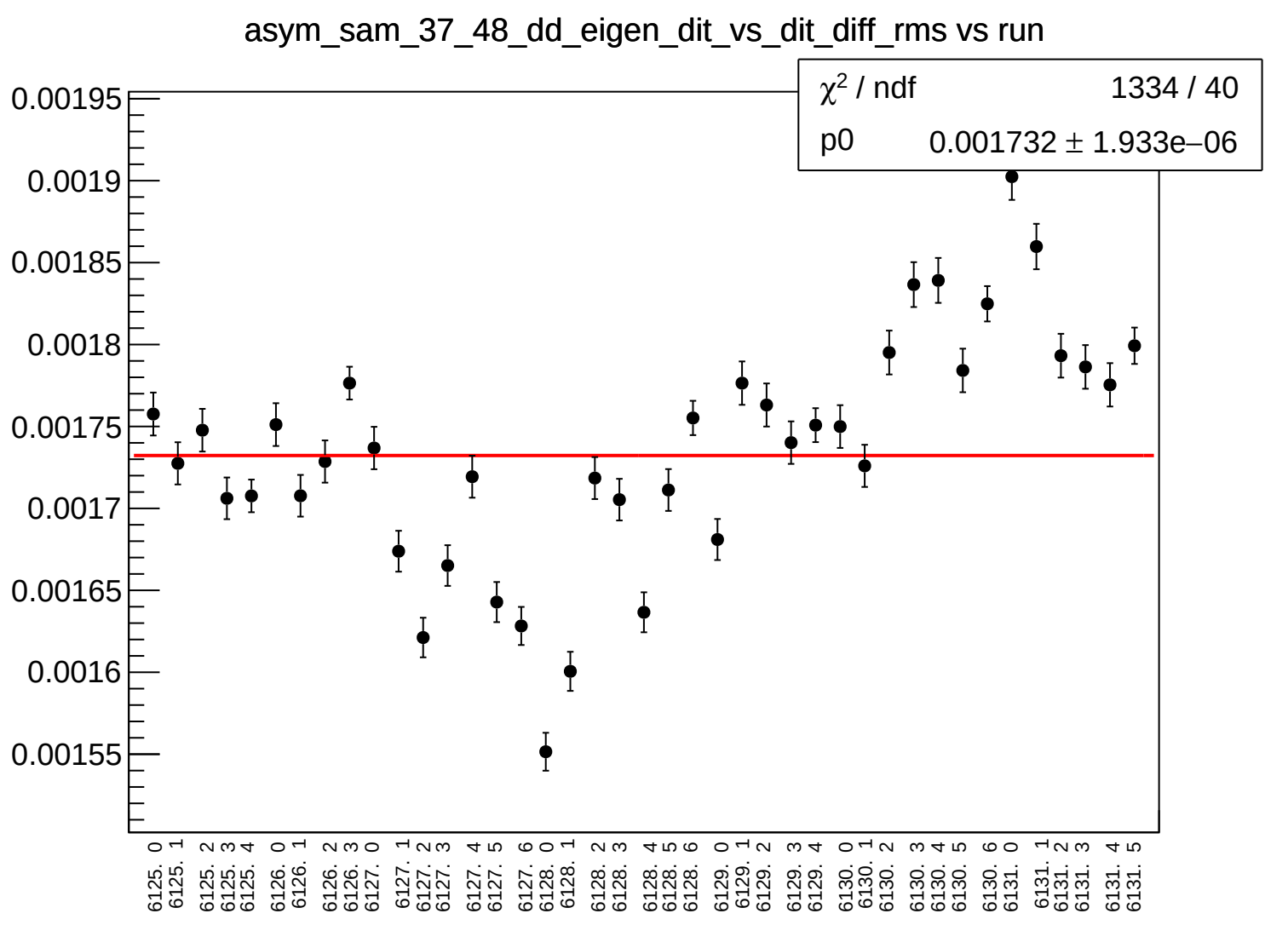

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.85 / 40
p0 −0.00414 ± 0.0394
pull
Entries 41
Mean −168.8
Std Dev 0

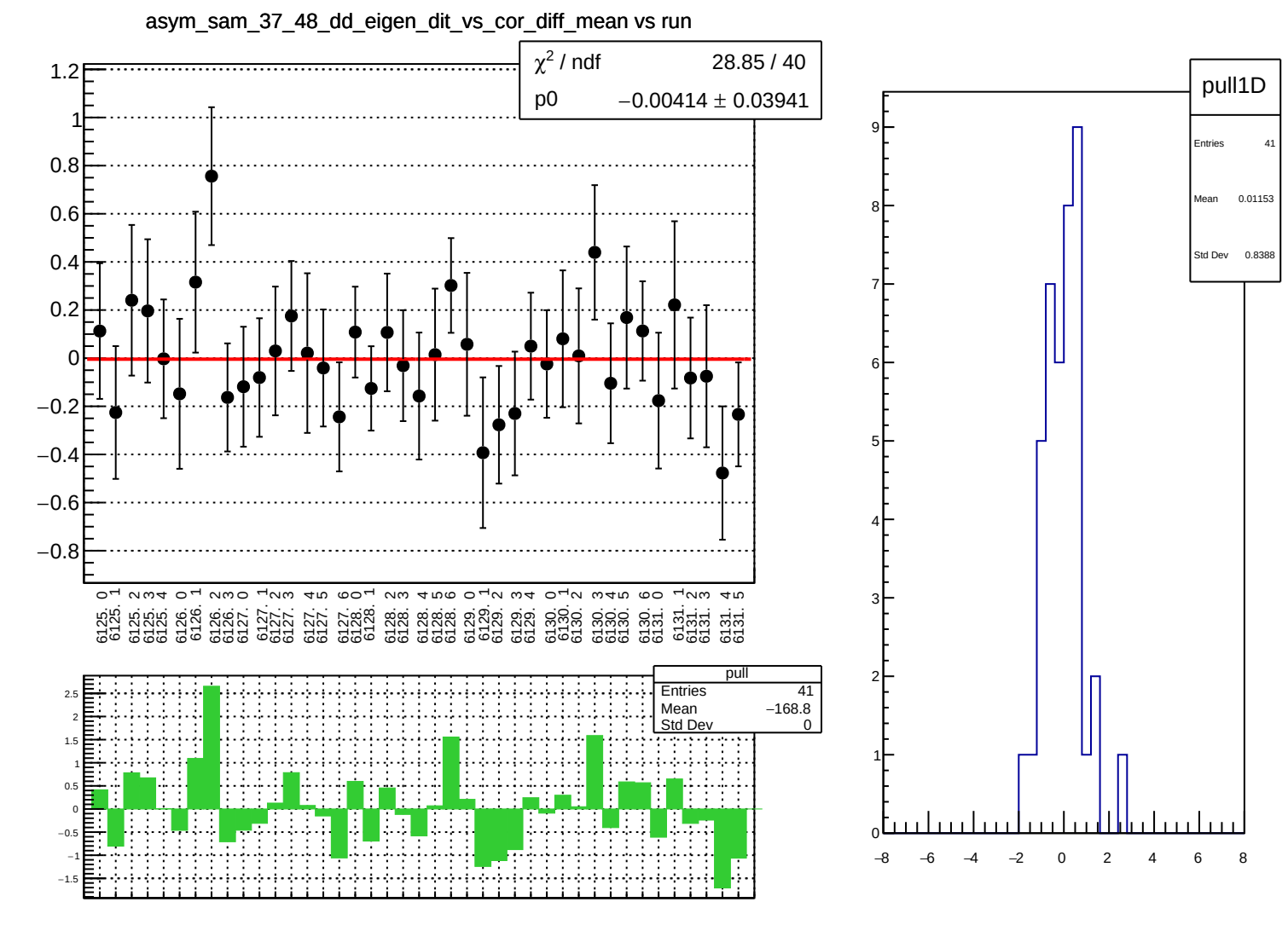

pull1D
Entries 41
Mean 0.01153
Std Dev 0.8388

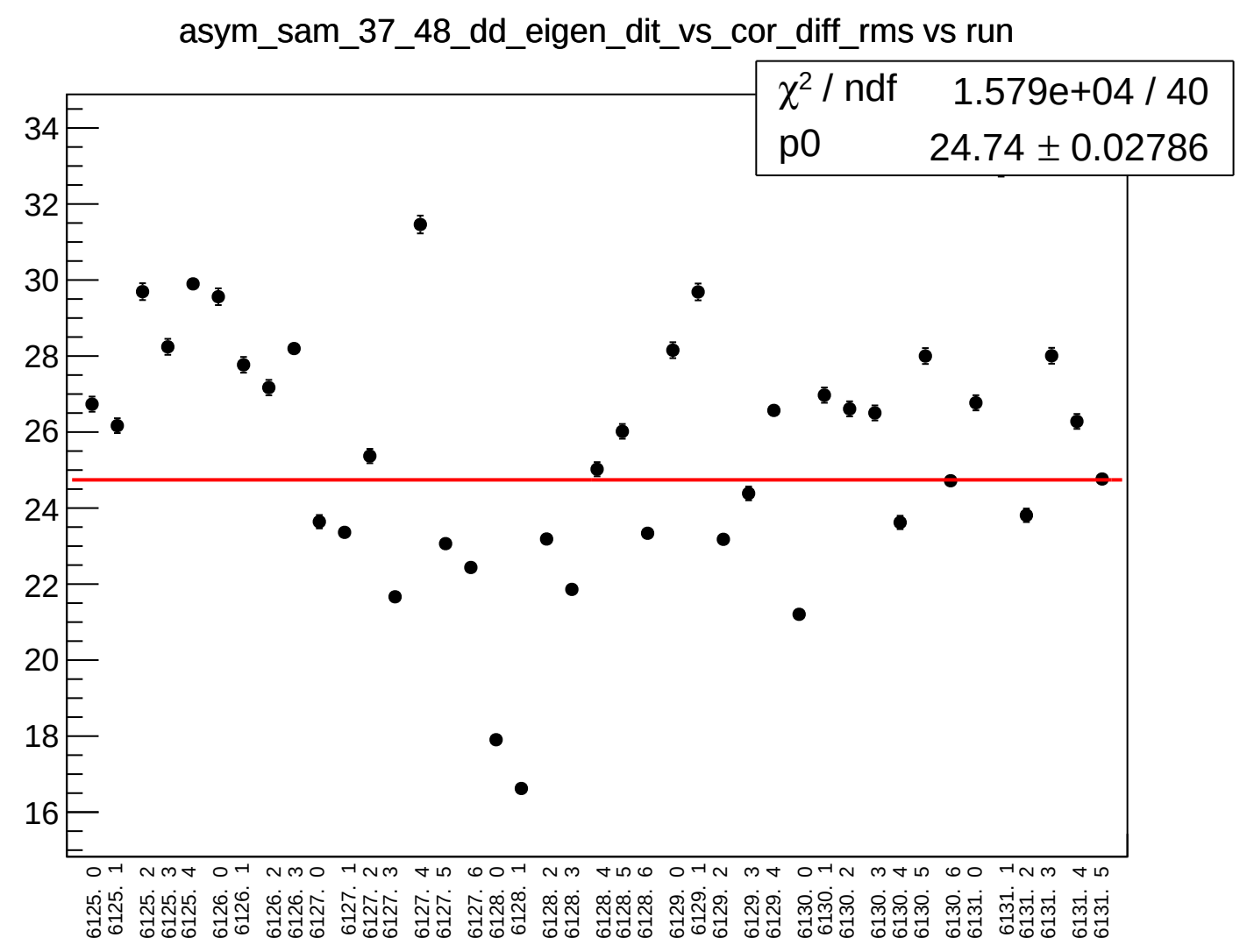

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.579e+04 / 40
p0 24.74 ± 0.02786
34
32
30
28
26
24
22
20
18
16
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

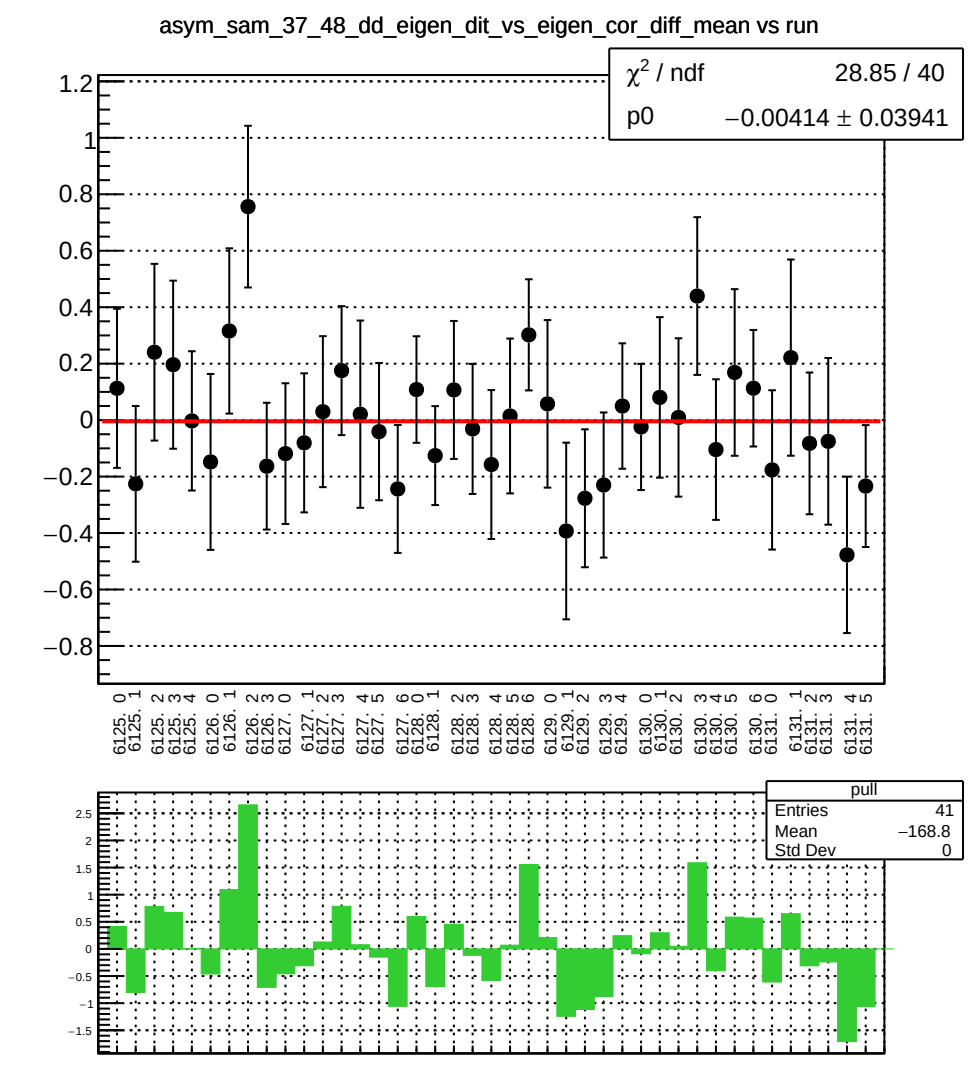

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 30.91 / 40
p0 8.872e−07 ± 2.734e−06
0.06
0.04
0.02
0
−0.02
−0.04
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6126. 4
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 104.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

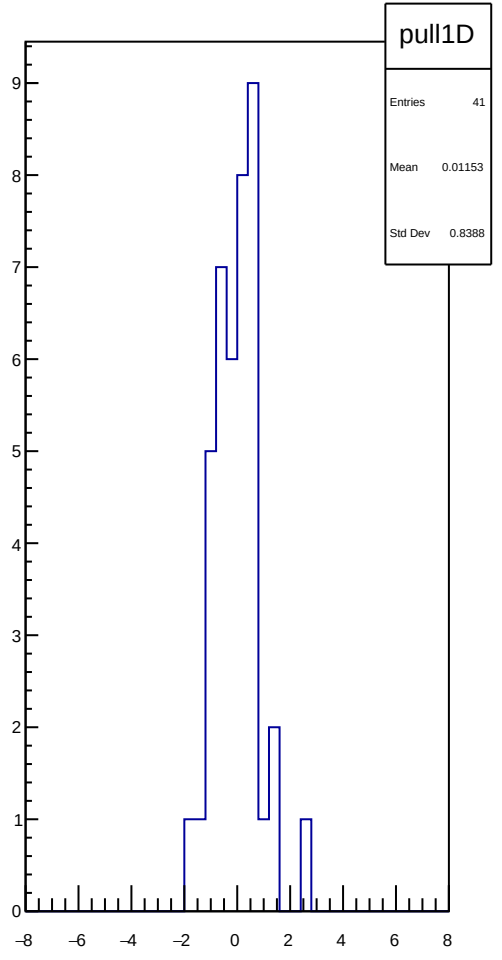

pull1D
Entries 41
Mean −0.006183
Std Dev 0.8683
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

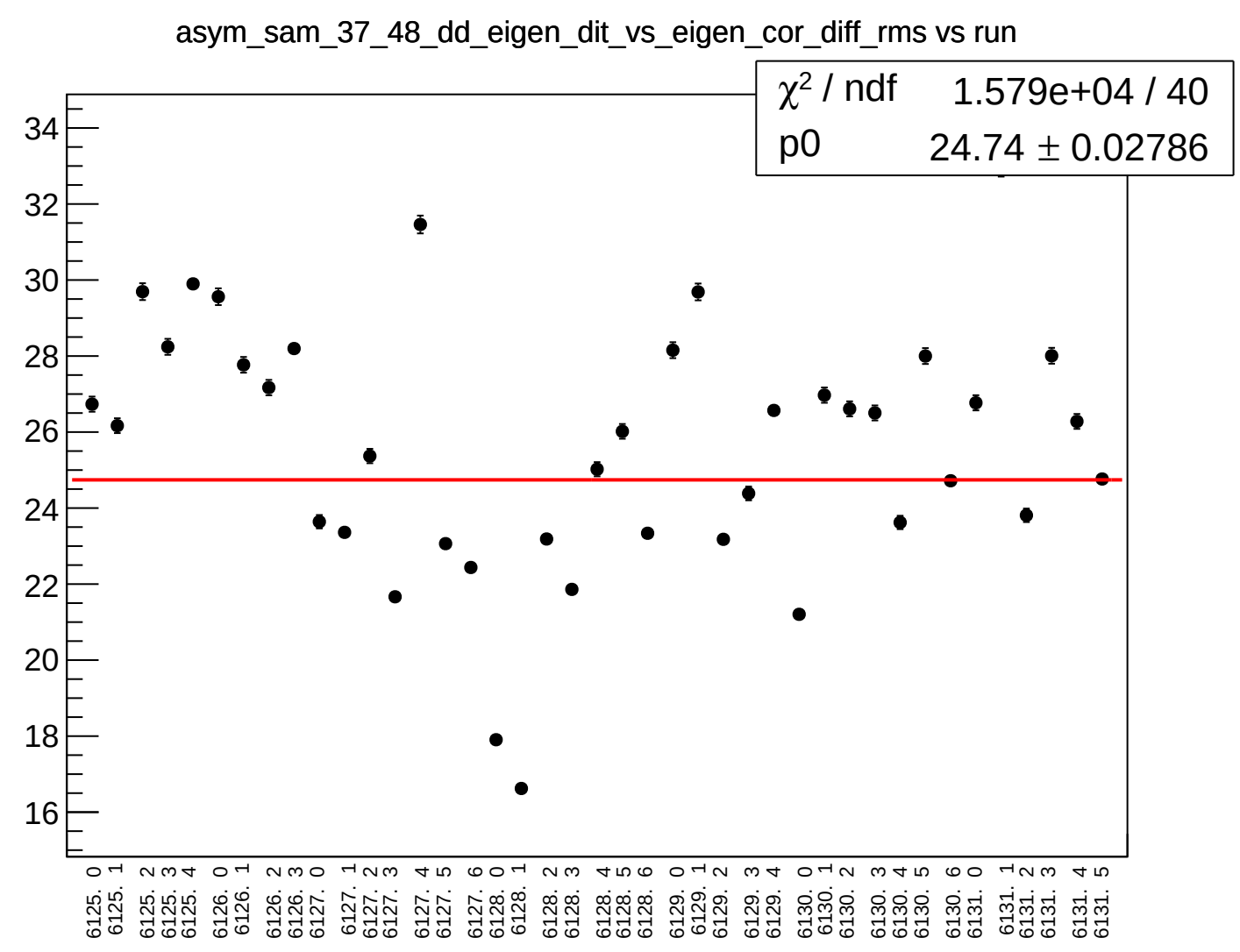

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1334 / 40
p0 0.001732 ± 1.933e−06
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

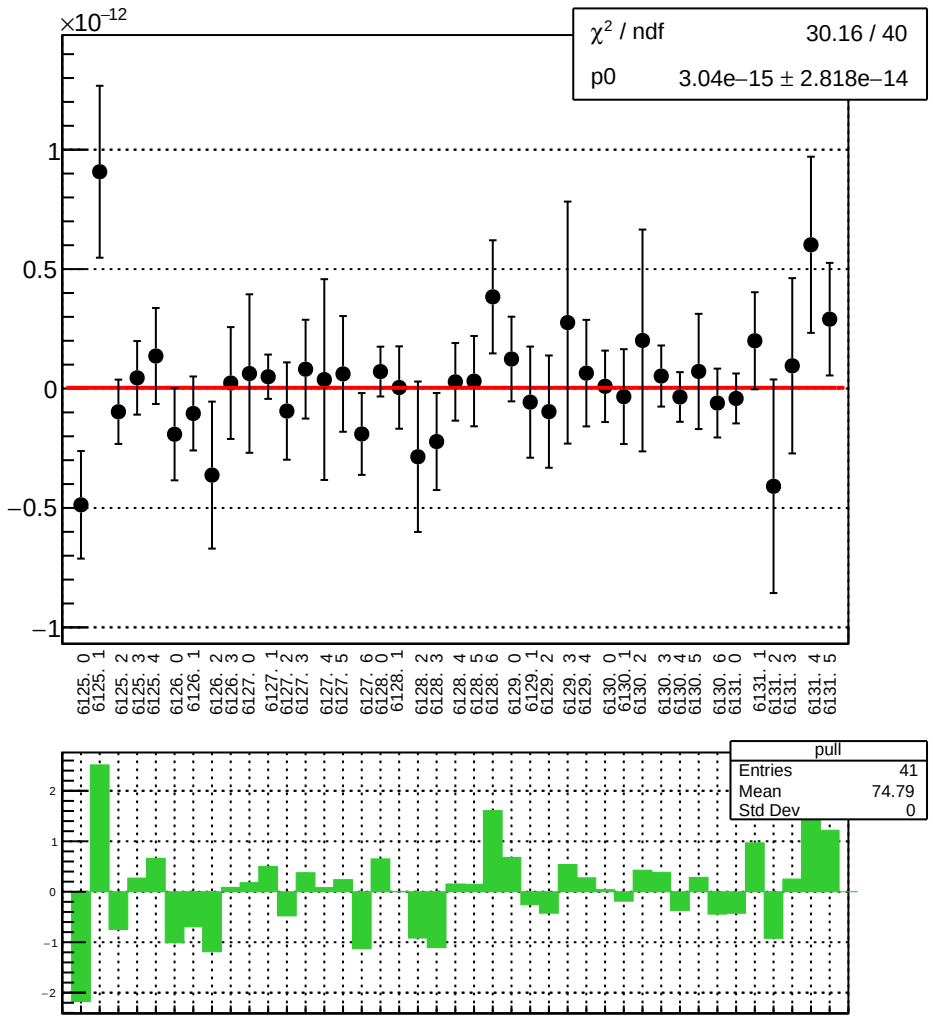

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 28.85 / 40
p0 −0.00414 ± 0.03941
pull
Entries 41
Mean −168.8
Std Dev 0
pull1D
Entries 41
Mean 0.01153
Std Dev 0.8388

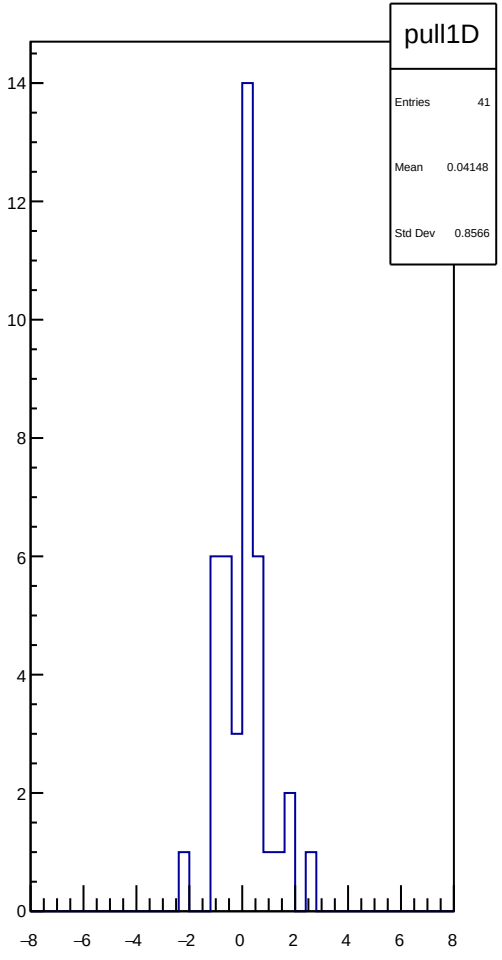

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.579e+04 / 40
p0 24.74 ± 0.02786
34
32
30
28
26
24
22
20
18
16
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

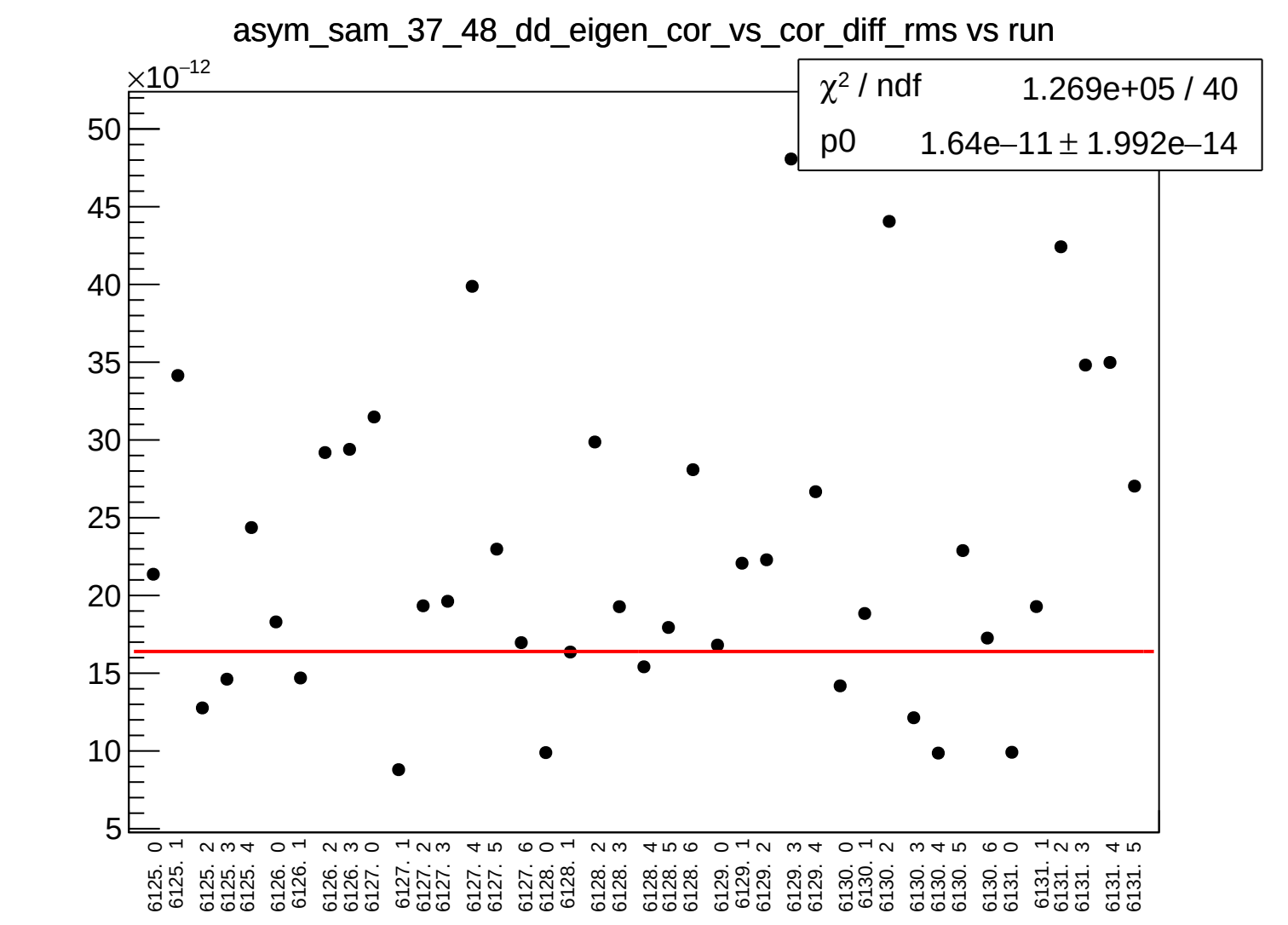

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.85 / 40
p0 −0.00414 ± 0.03941
pull
Entries 41
Mean −168.8
Std Dev 0

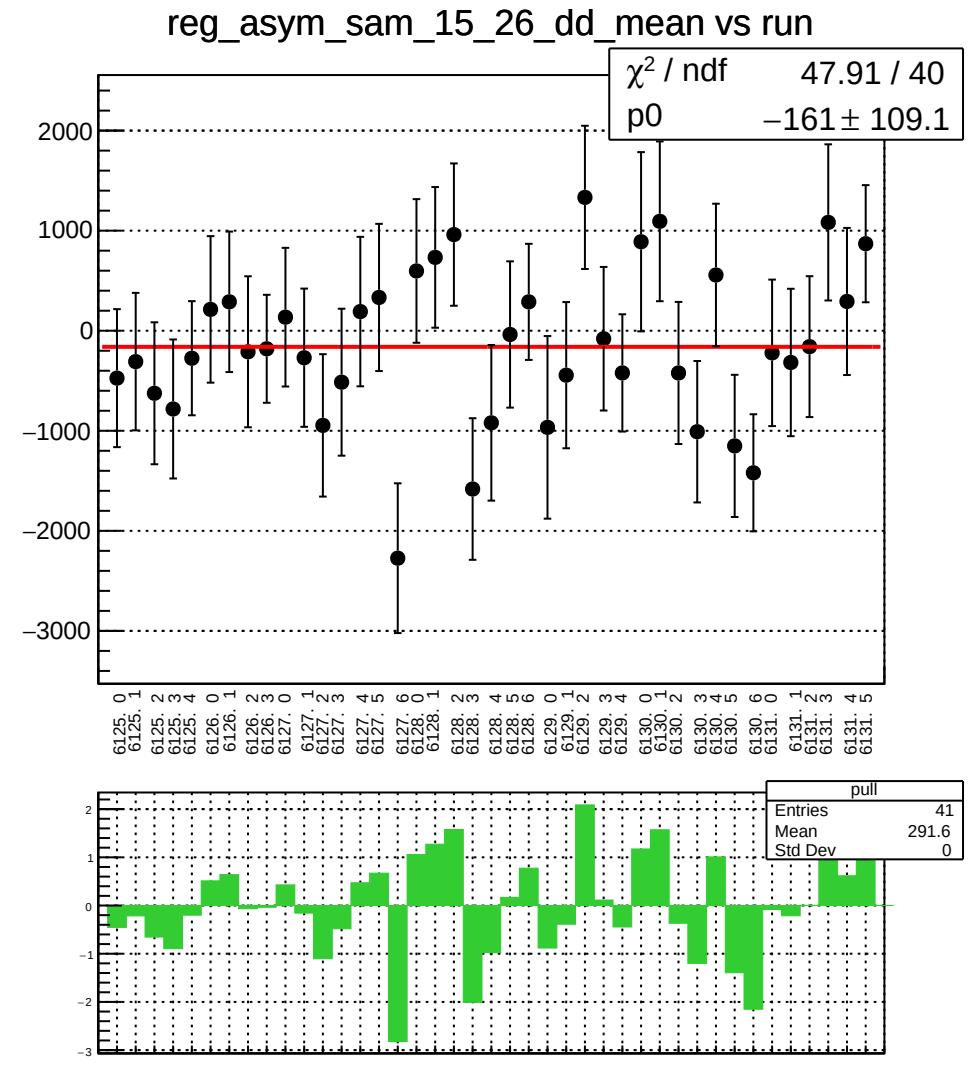

pull1D
Entries 41
Mean 0.01153
Std Dev 0.8388

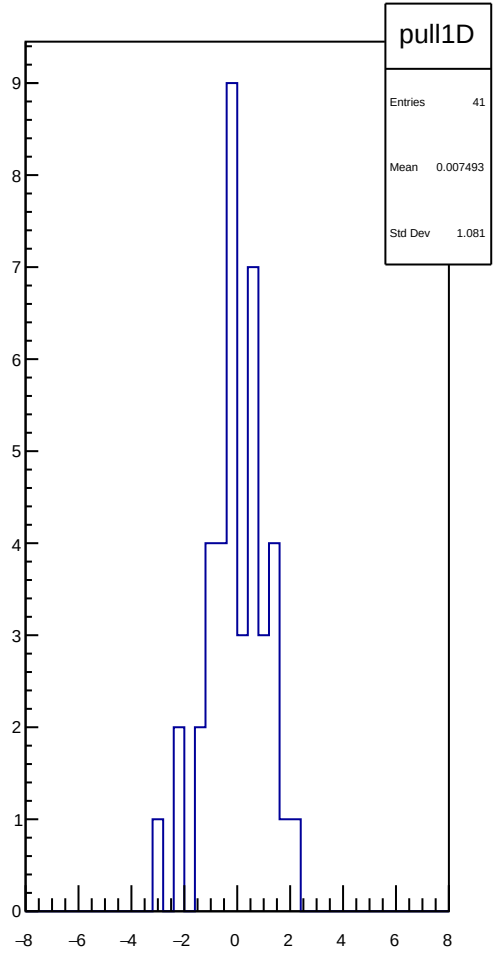

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.579e+04 / 40
p0 24.74 ± 0.02786
34
32
30
28
26
24
22
20
18
16
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

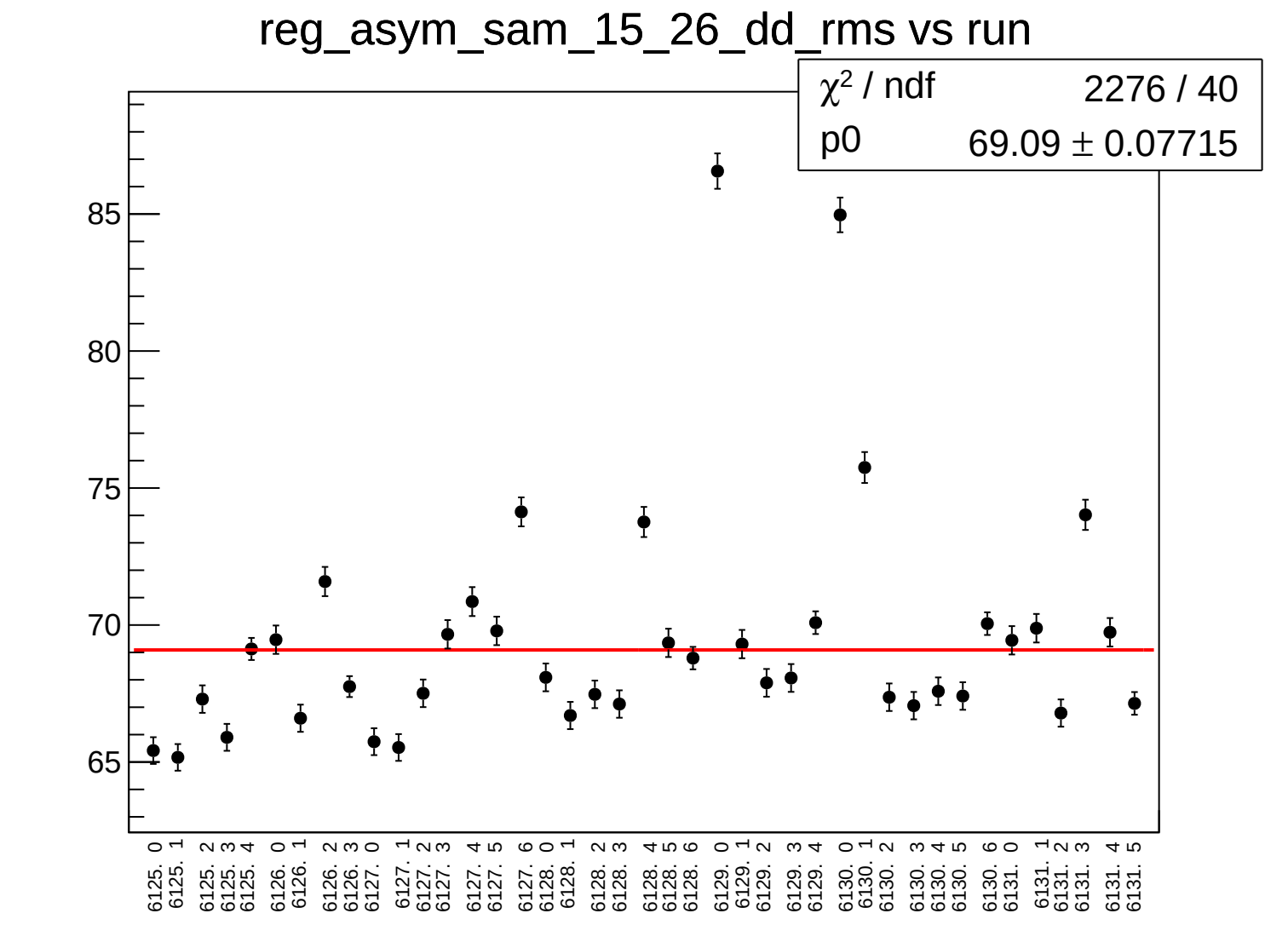

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 30.16 / 40
p0 3.04e−15 ± 2.818e−14
pull
Entries 41
Mean 74.79
Std Dev 0

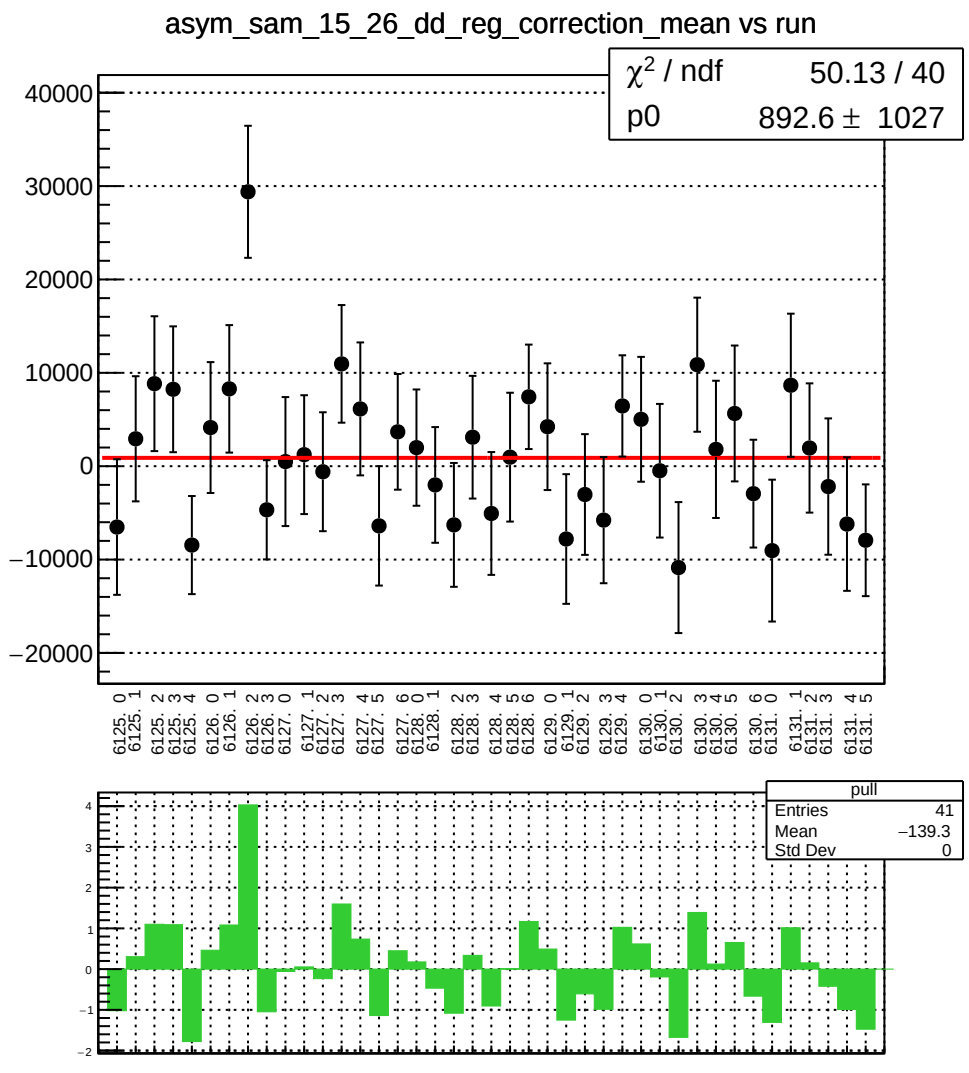

pull1D
Entries 41
Mean 0.04148
Std Dev 0.8566

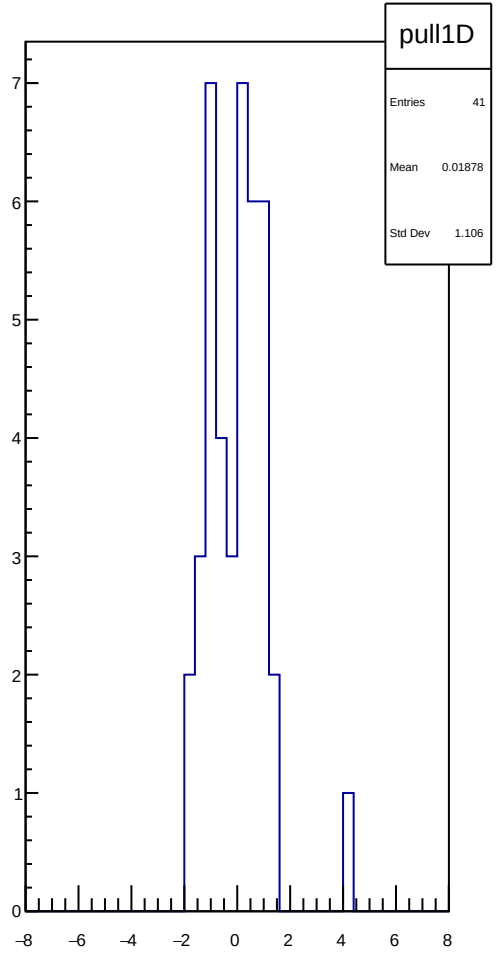

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.269e+05 / 40
p0 1.64e−11 ± 1.992e−14
50
45
40
35
30
25
20
15
10
5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

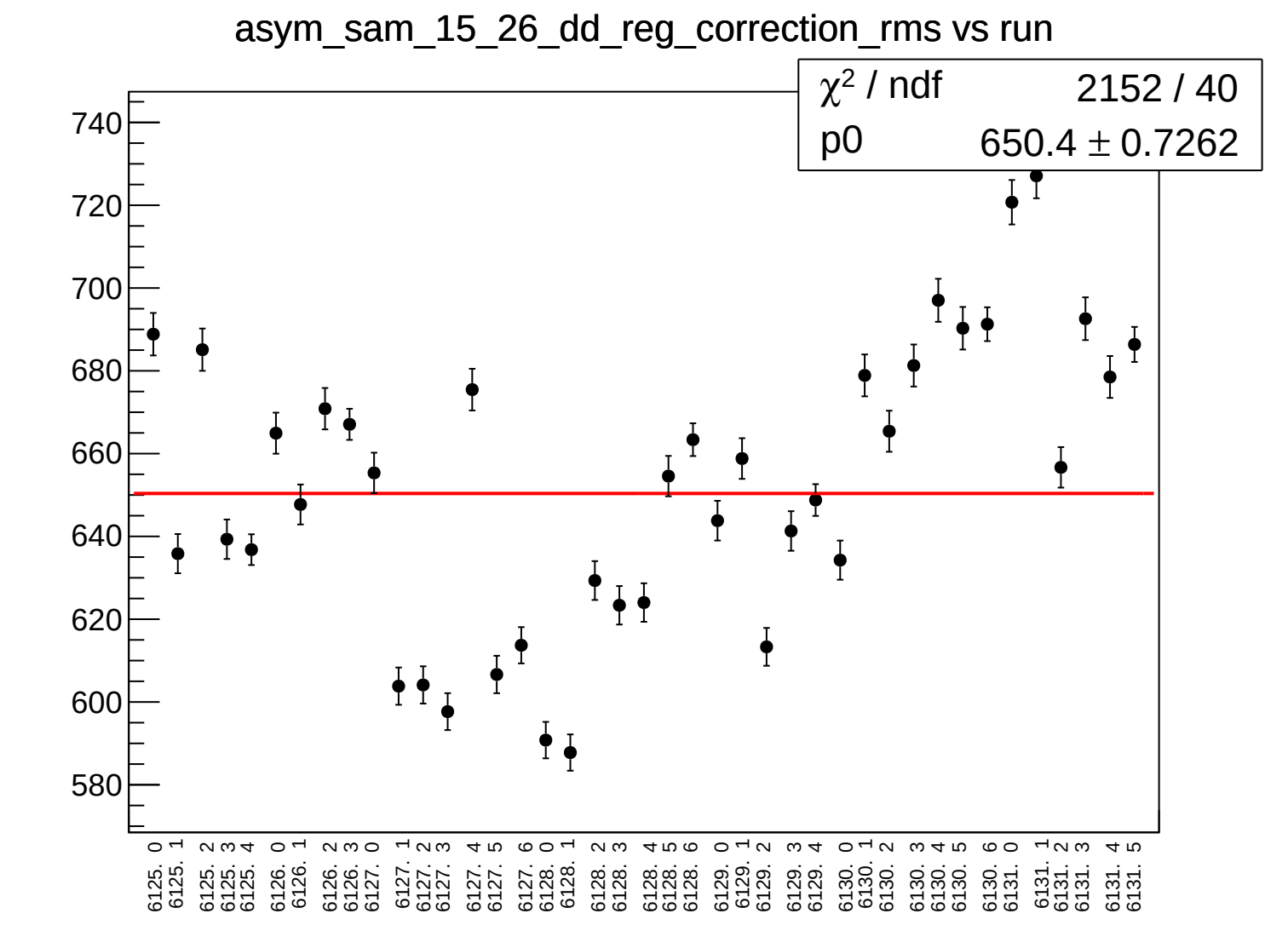

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 47.91 / 40
p0 −161 ± 109.1
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 291.6
Std Dev 0
2
1
0
−1
−2
−3

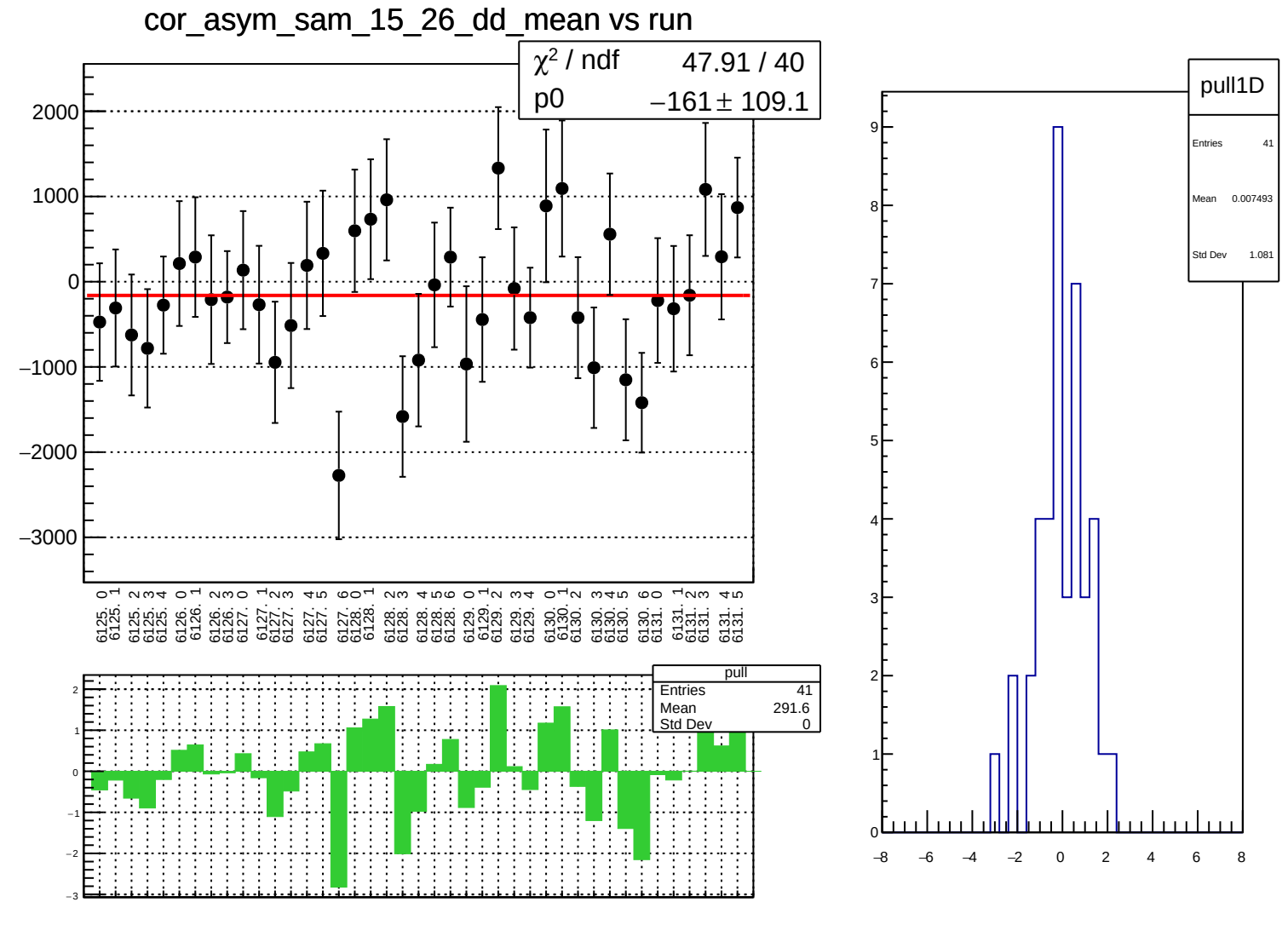

pull1D
Entries 41
Mean 0.007493
Std Dev 1.081
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

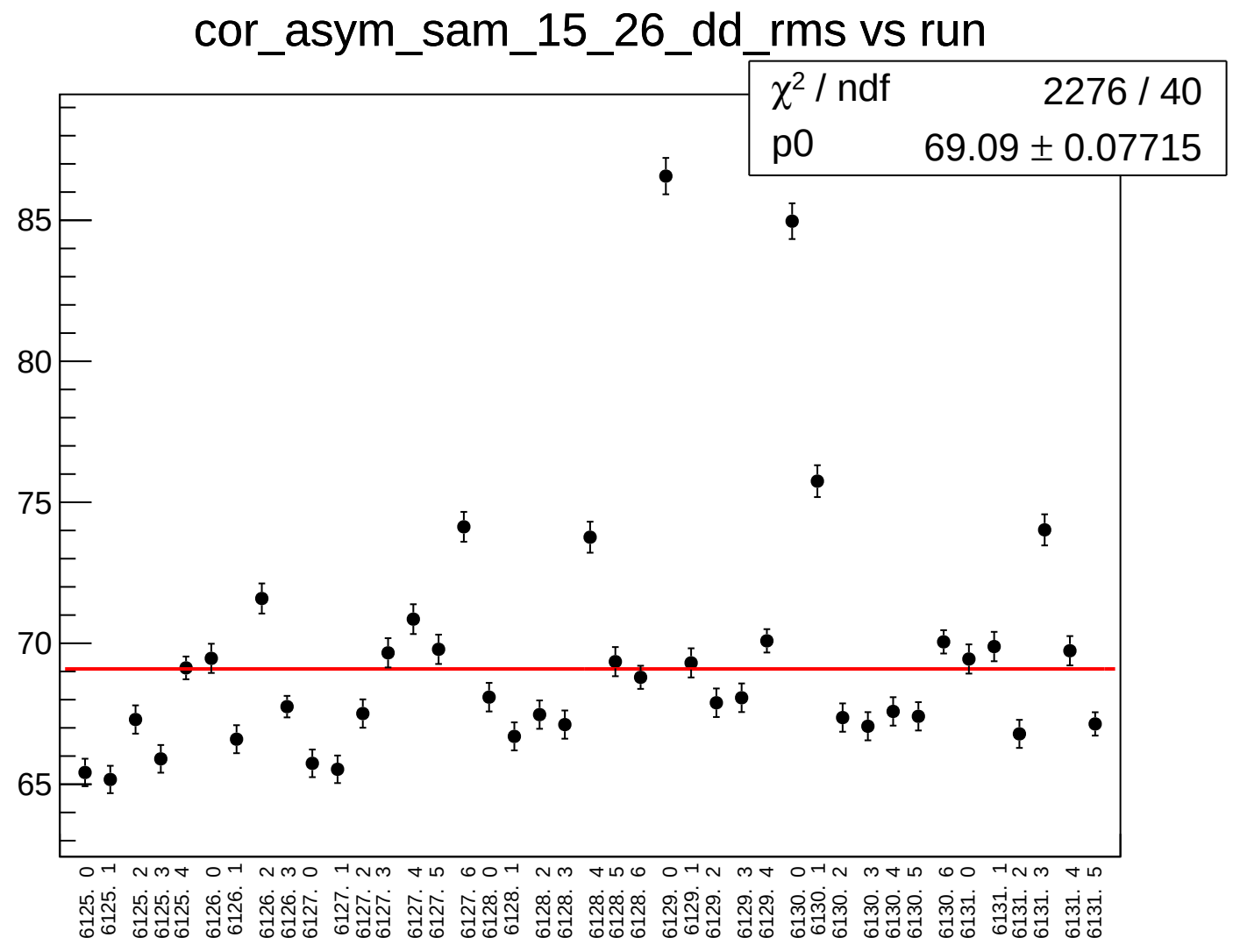

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 2276 / 40
p0 69.09 ± 0.07715
85
80
75
70
65
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

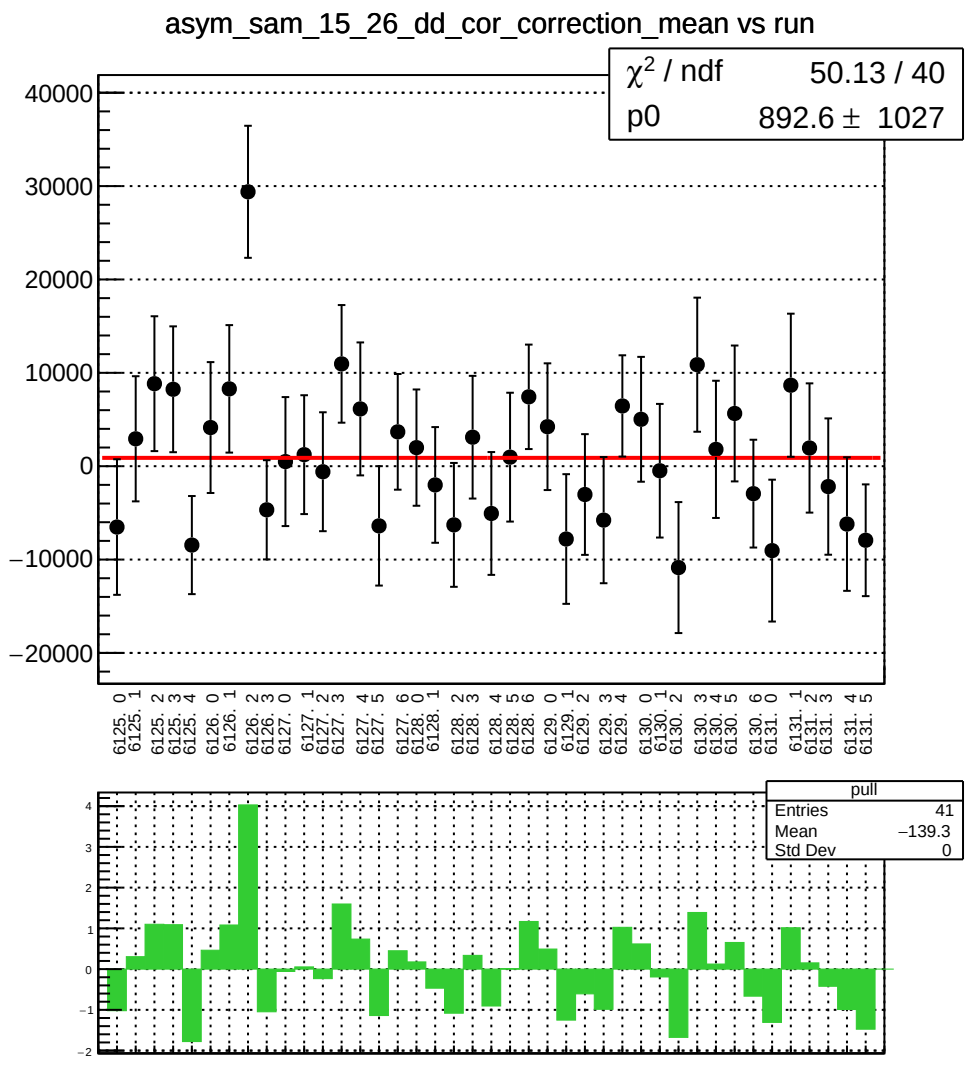

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 50.13 / 40
p0 892.6 ± 1027
40000
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −139.3
Std Dev 0
4
3
2
1
0
−1
−2

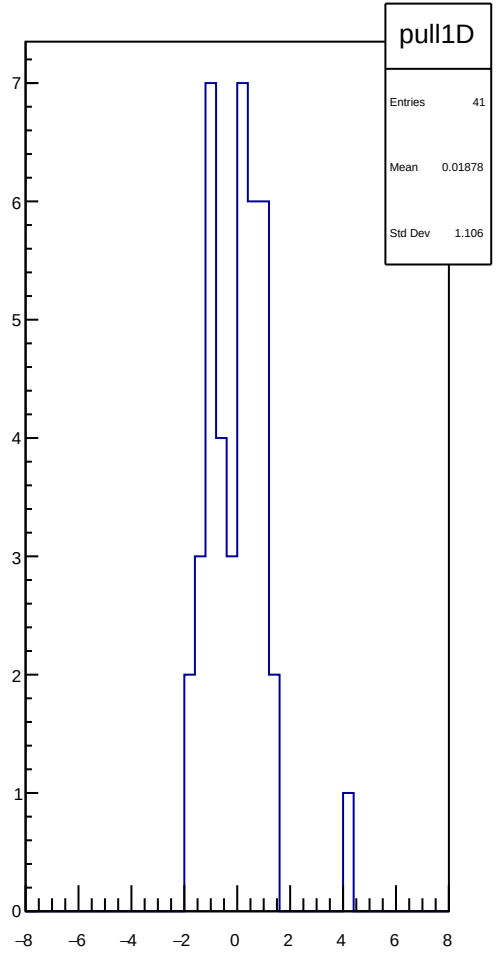

pull1D
Entries 41
Mean 0.01878
Std Dev 1.106
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

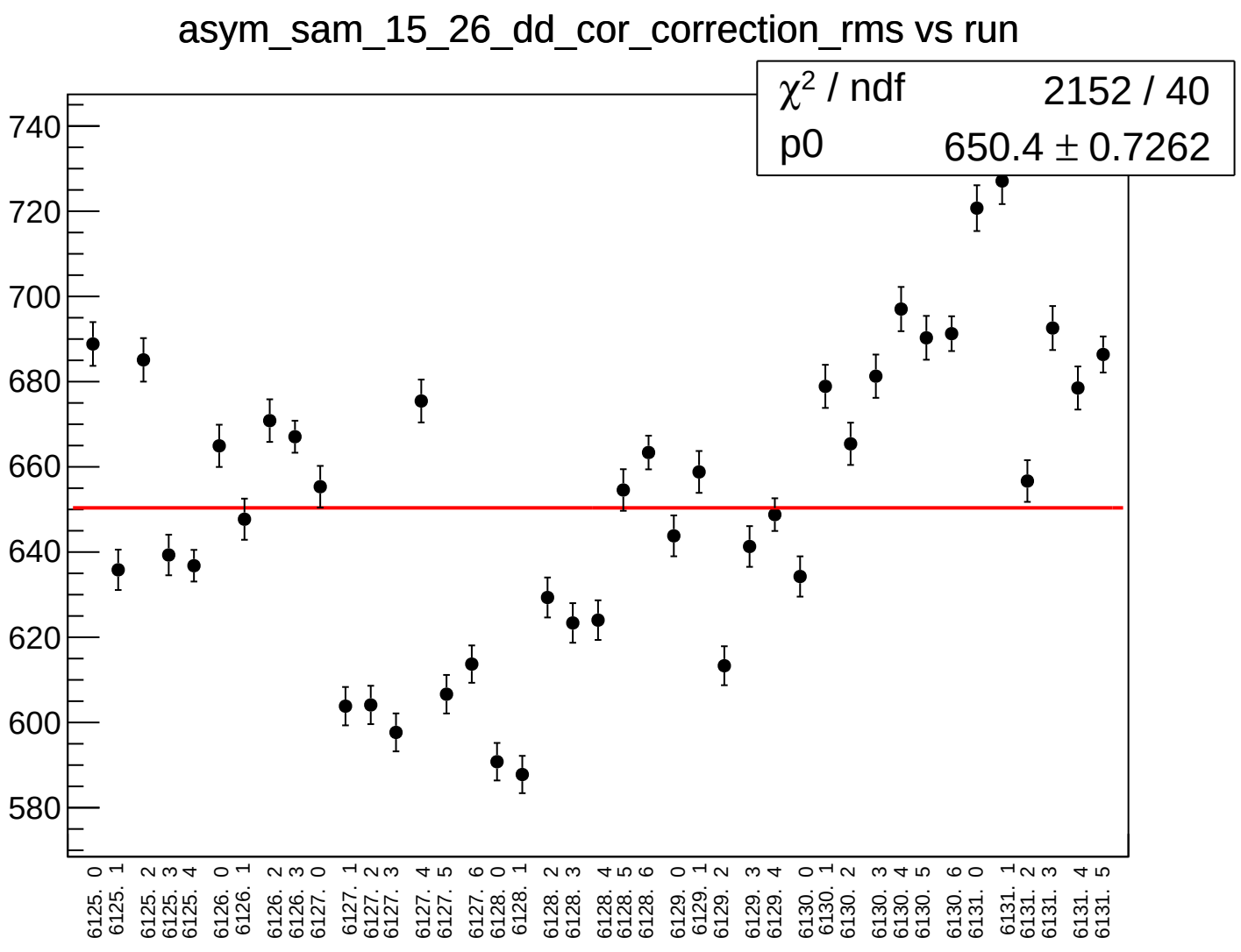

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 2152 / 40
p0 650.4 ± 0.7262
740
720
700
680
660
640
620
600
580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

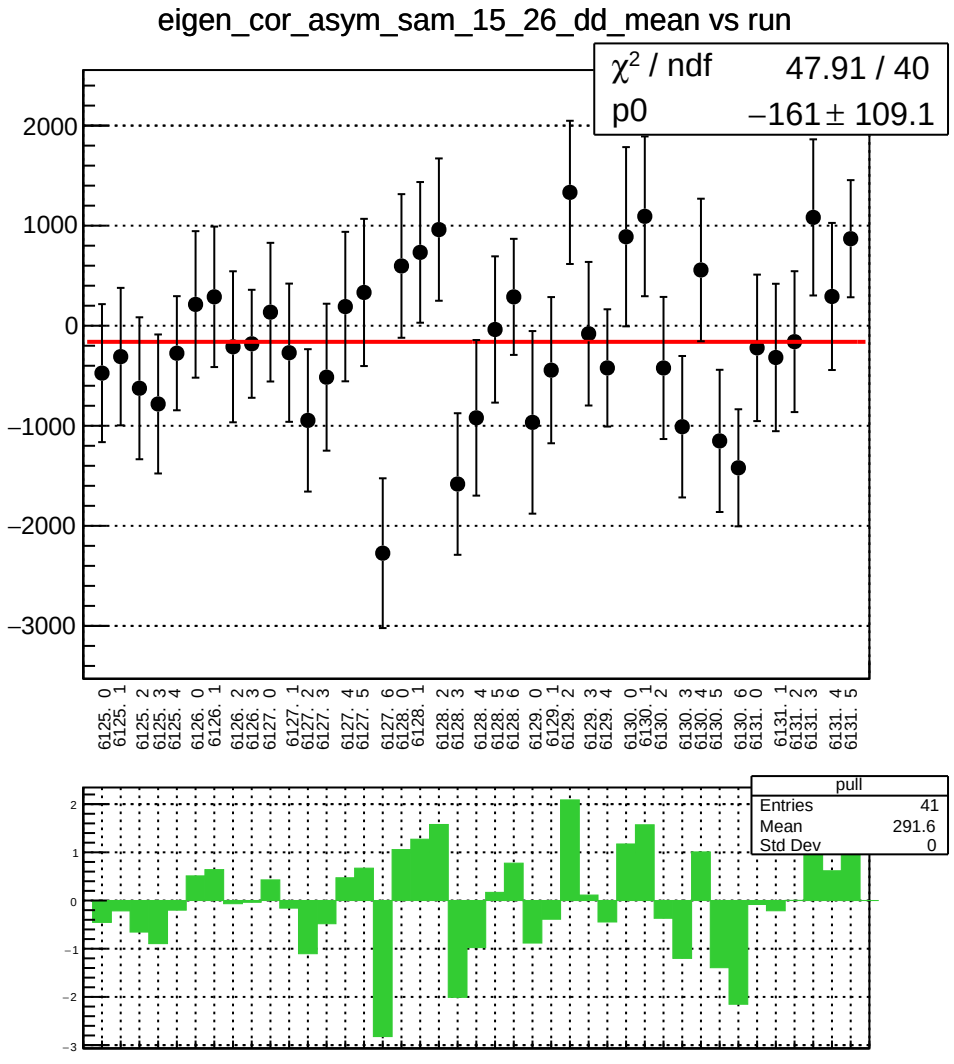

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 47.91 / 40
p0 −161 ± 109.1
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 291.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.007493
Std Dev 1.081
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

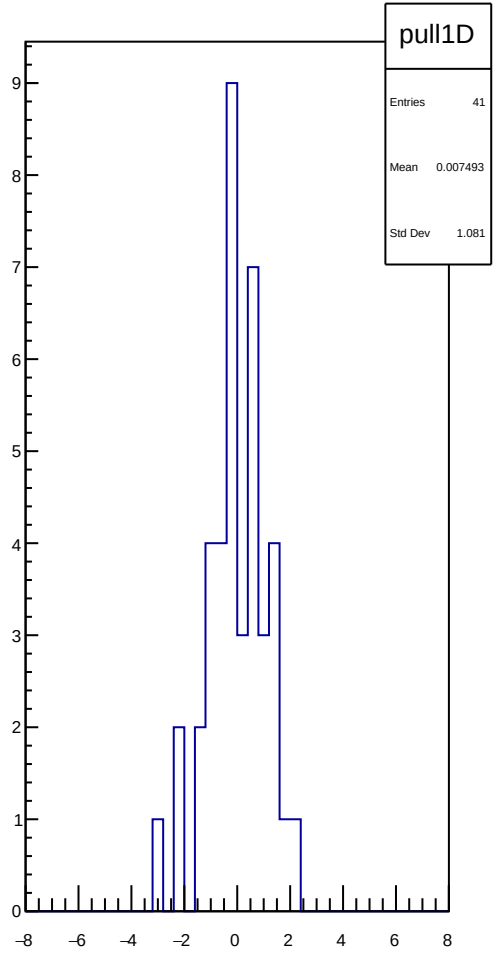

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2276 / 40
p0 69.09 ± 0.07715
85
80
75
70
65
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

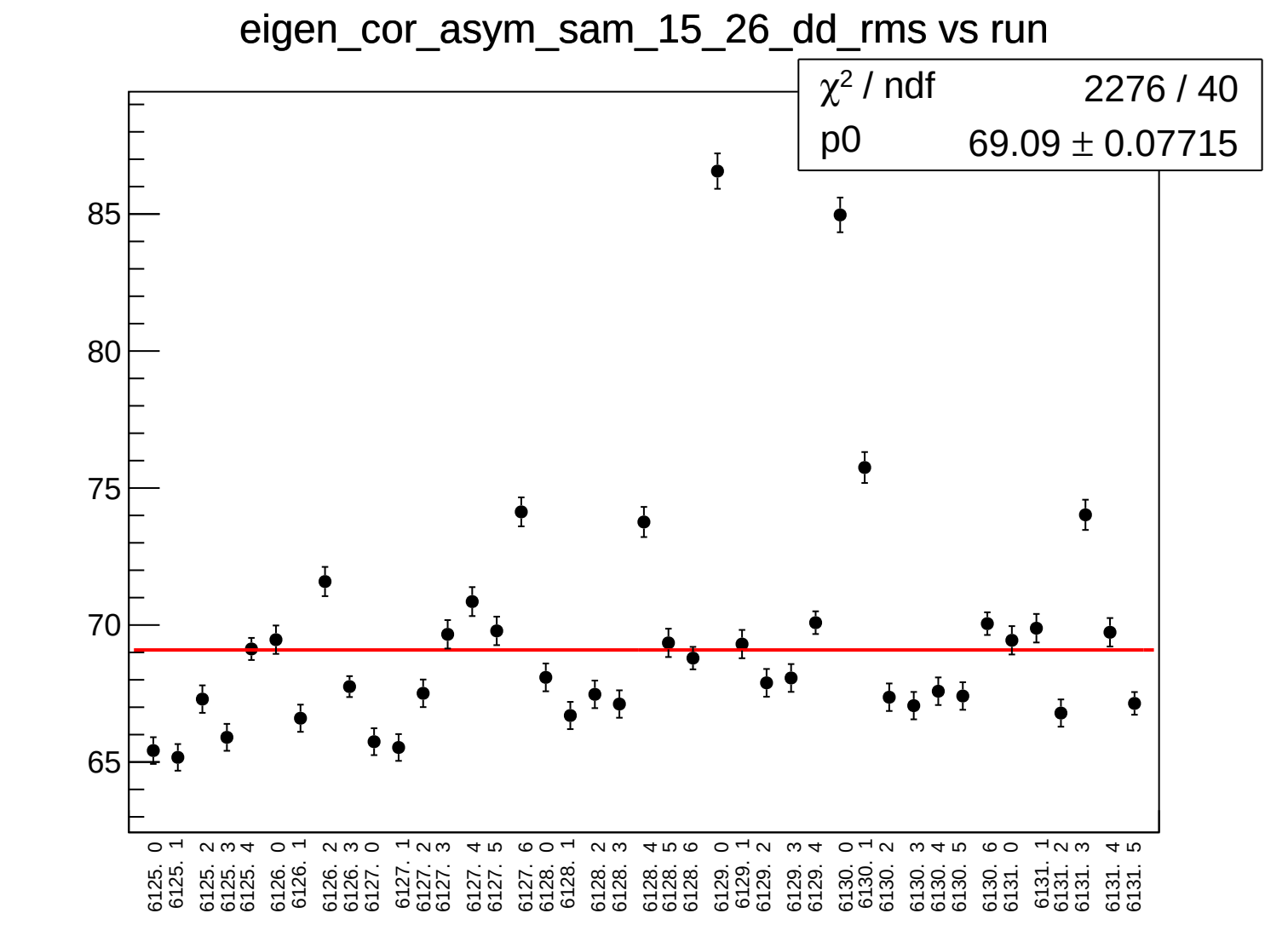

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 50.13 / 40
p0 892.6 ± 1027
40000
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −139.3
Std Dev 0
4
3
2
1
0
−1
−2

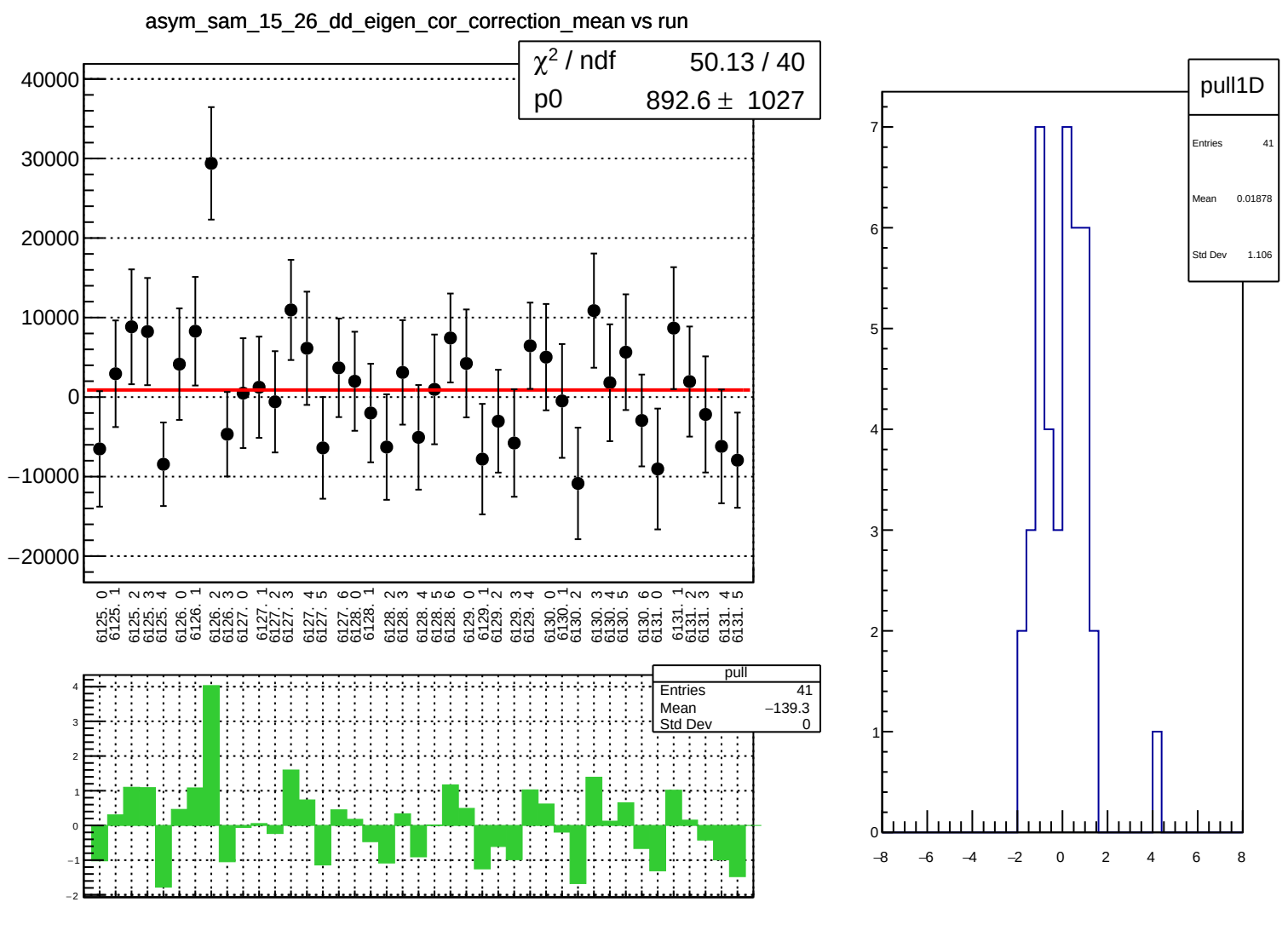

pull1D
Entries 41
Mean 0.01878
Std Dev 1.106
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

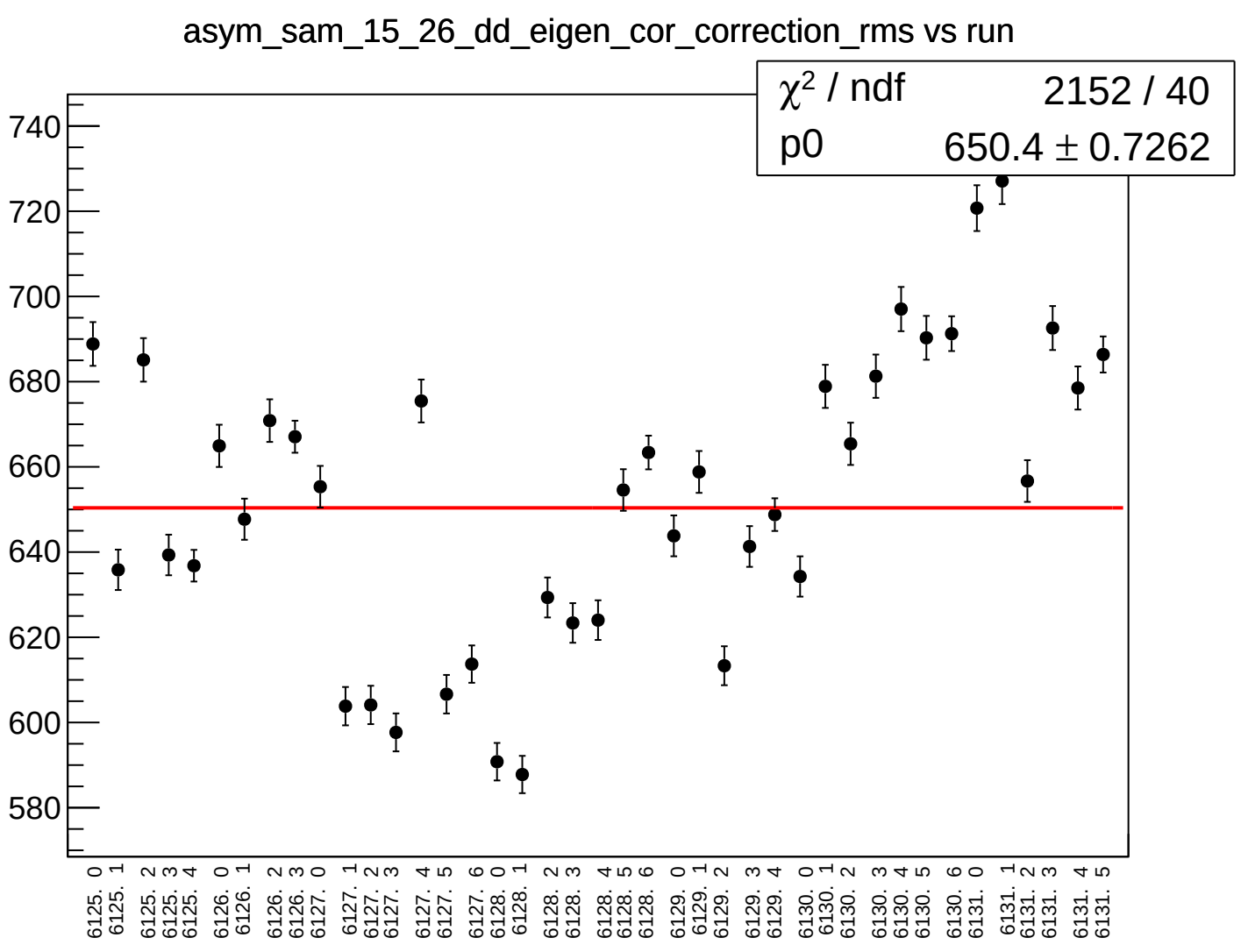

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 2152 / 40
p0 650.4 ± 0.7262
740
720
700
680
660
640
620
600
580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

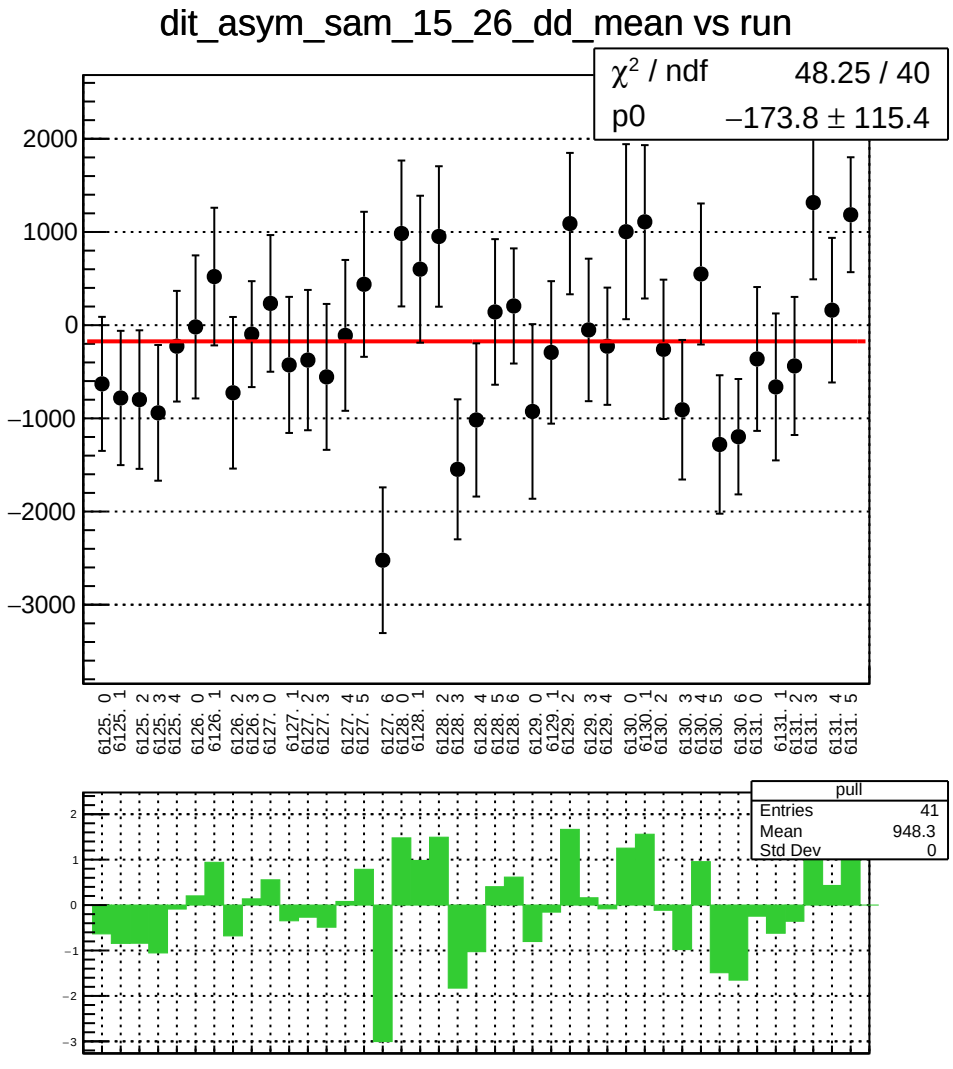

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 47.91 / 40
p0 −161 ± 109.1
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 291.6
Std Dev 0
2
1
0
−1
−2
−3

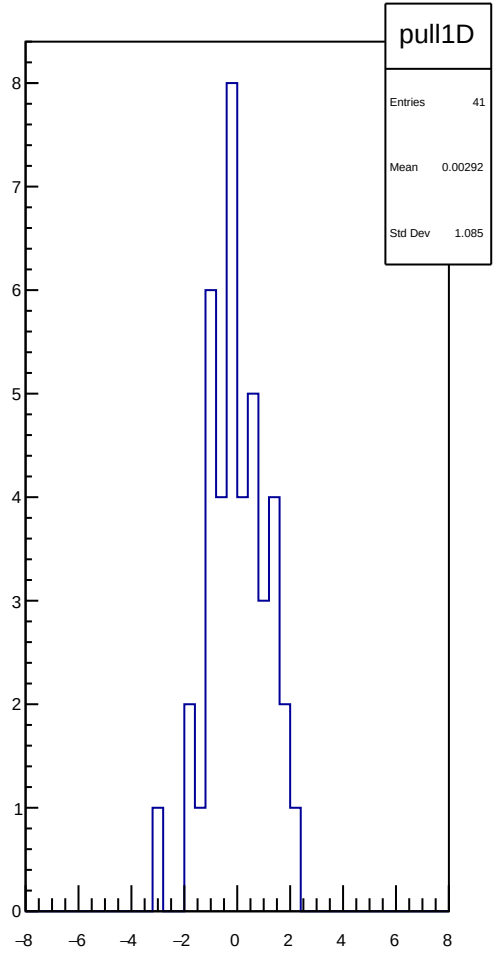

pull1D
Entries 41
Mean 0.007493
Std Dev 1.081
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

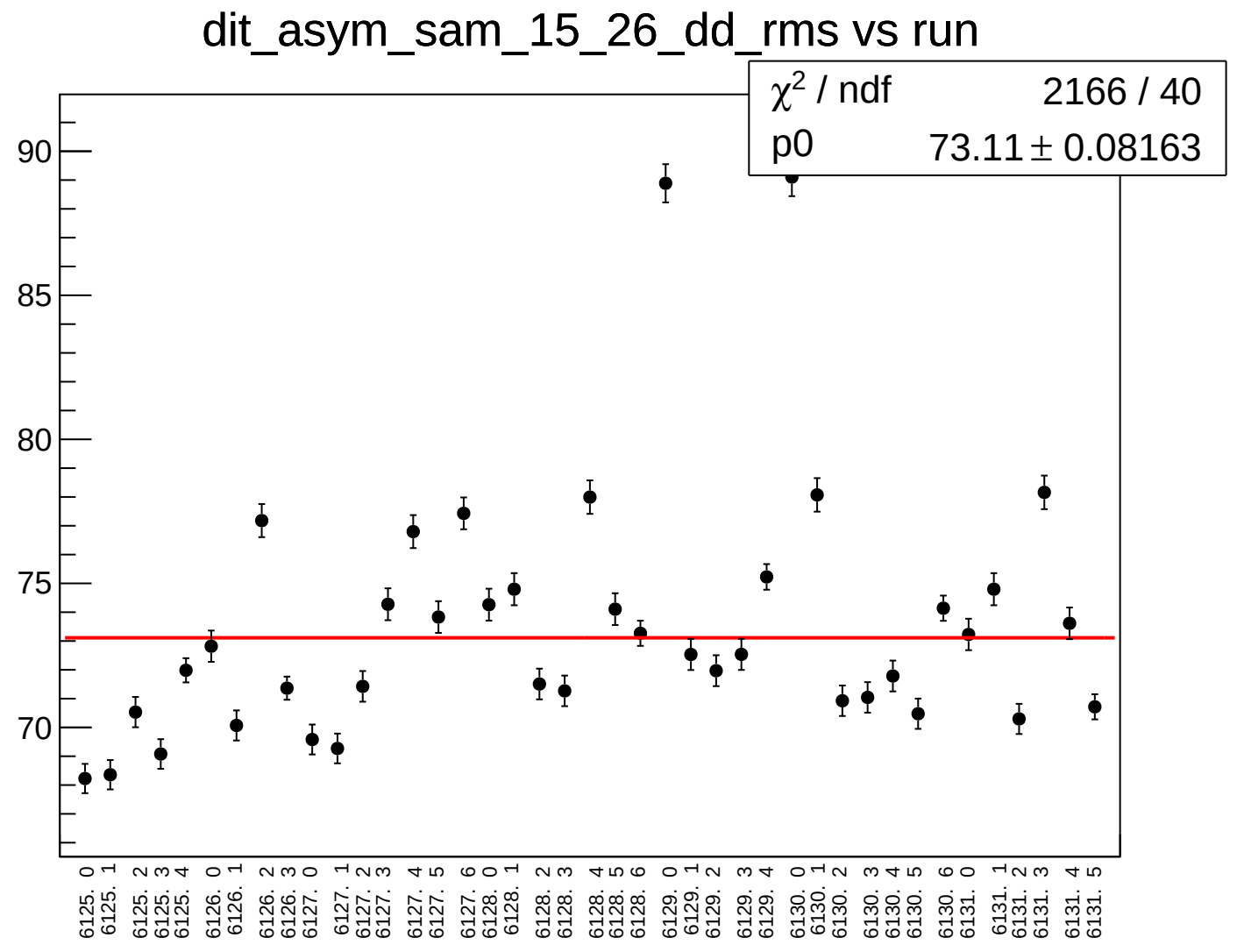

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2276 / 40
p0 69.09 ± 0.07715
85
80
75
70
65
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

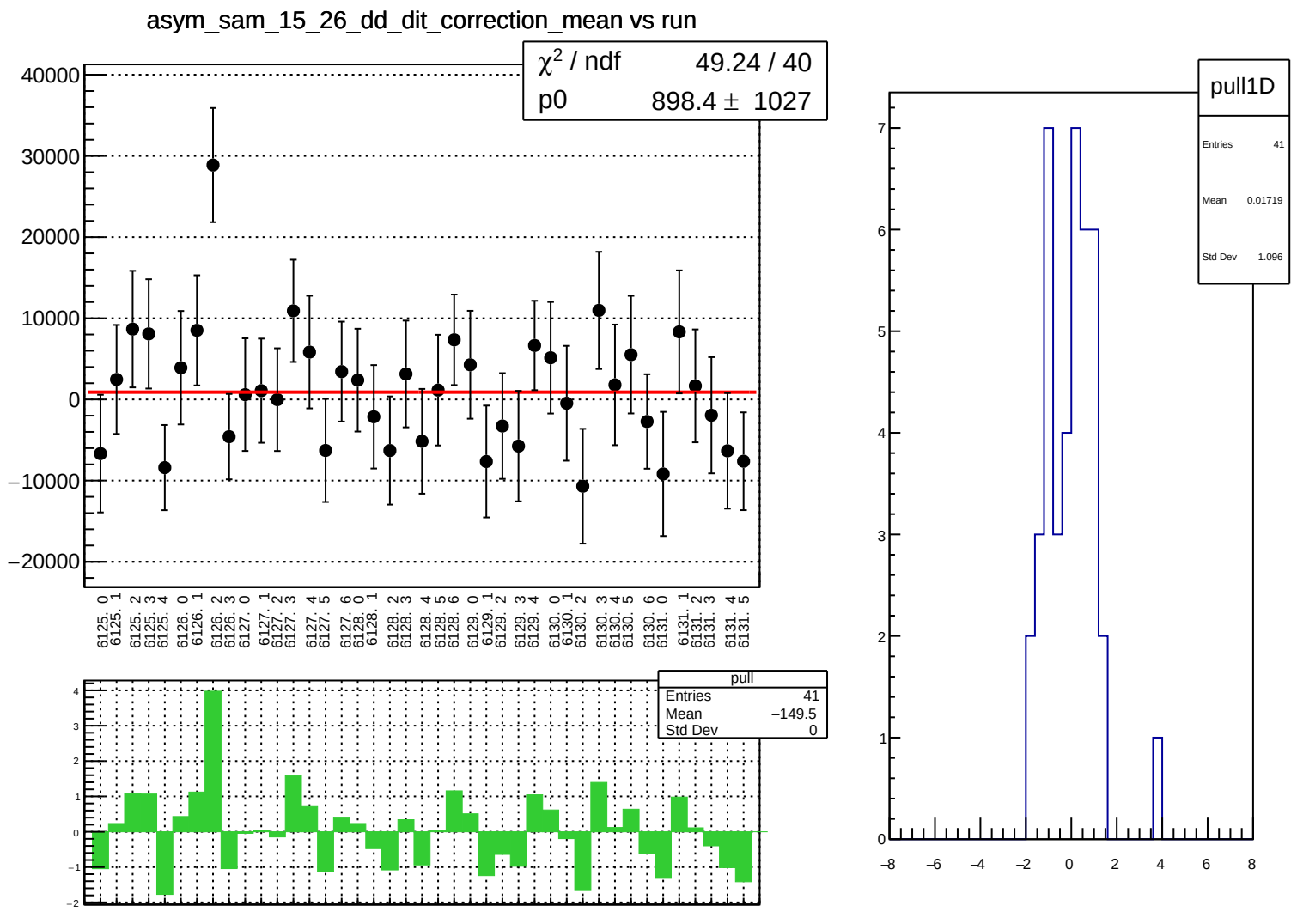

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 50.13 / 40
p0 892.6 ± 1027
pull
Entries 41
Mean −139.3
Std Dev 0
pull1D
Entries 41
Mean 0.01878
Std Dev 1.106

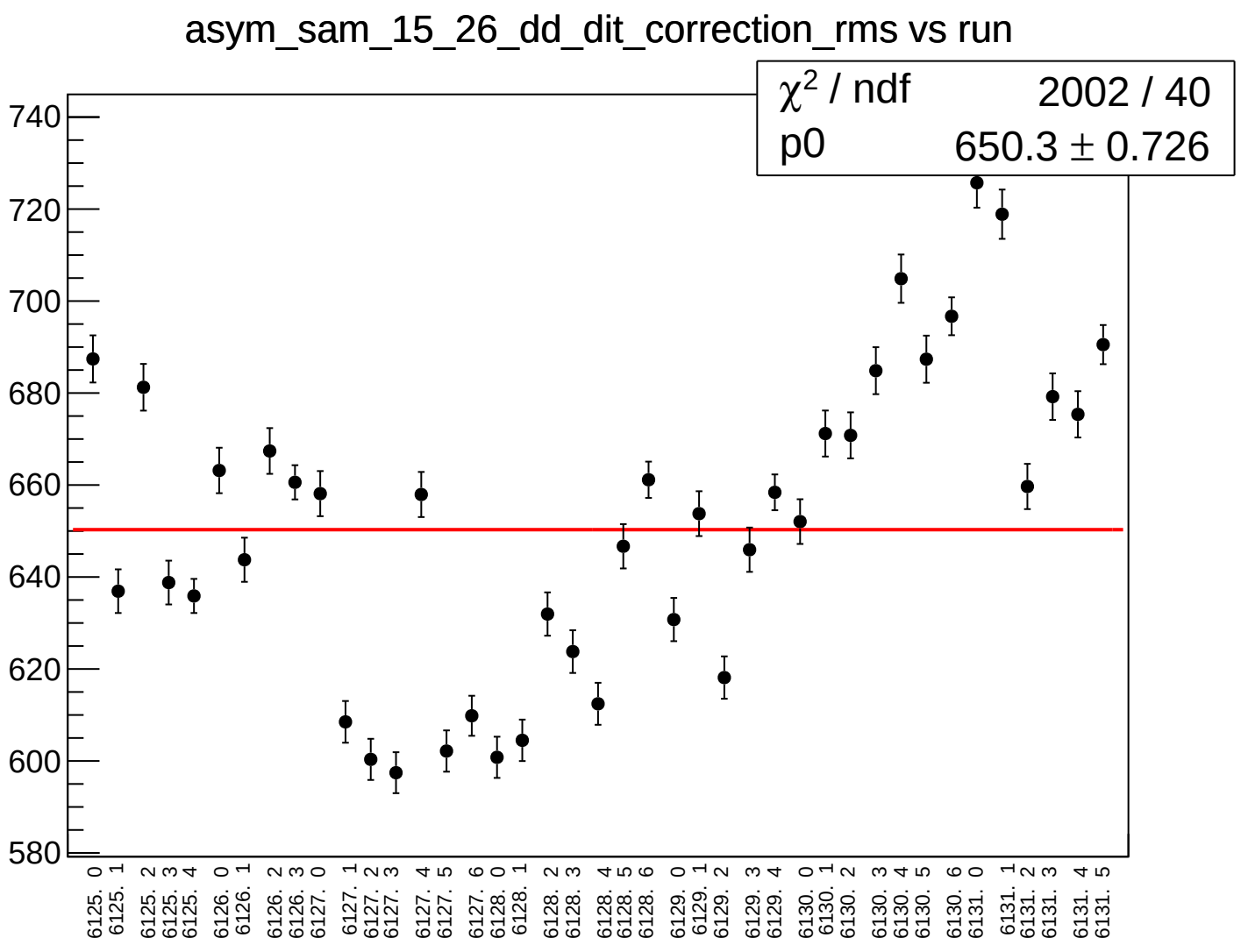

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2152 / 40
p0 650.4 ± 0.7262
740
720
700
680
660
640
620
600
580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

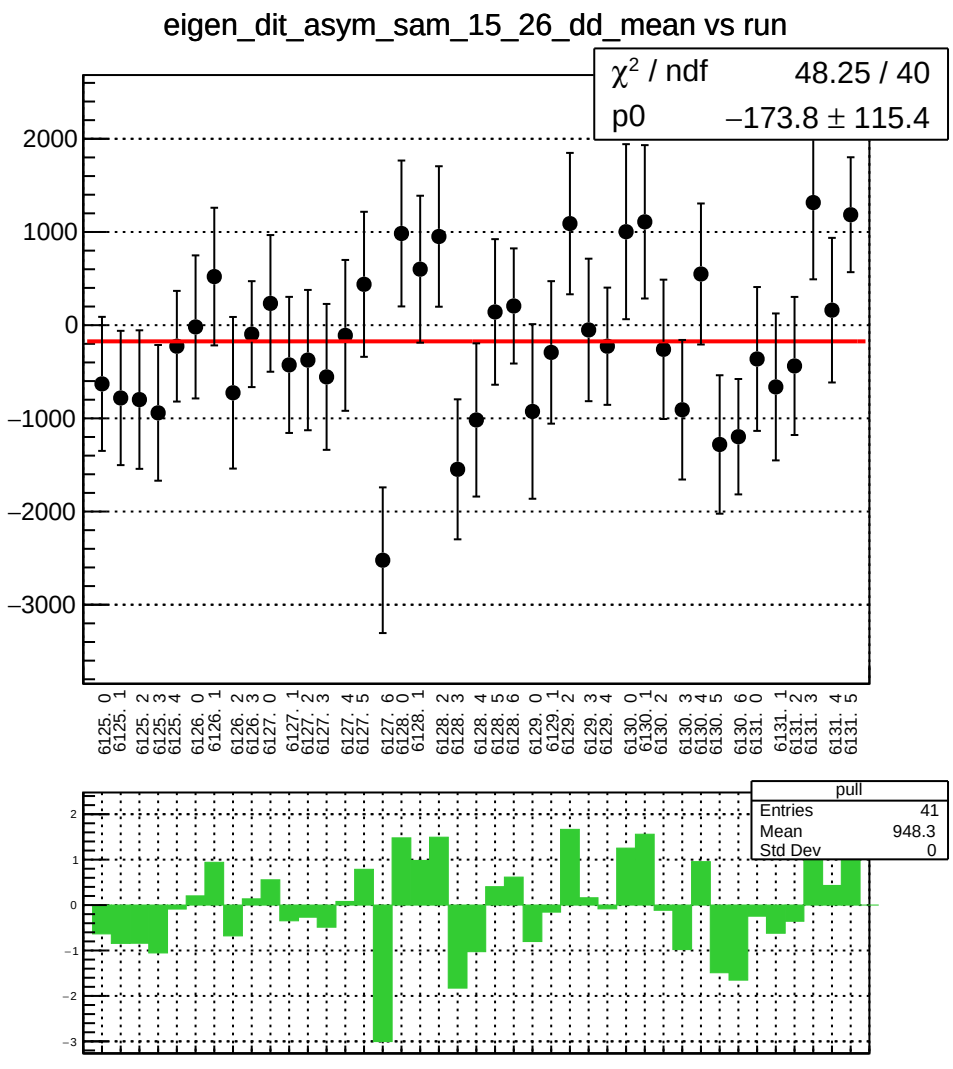

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 48.25 / 40
p0 −173.8 ± 115.4
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 948.3
Std Dev 0
2
1
0
−1
−2
−3

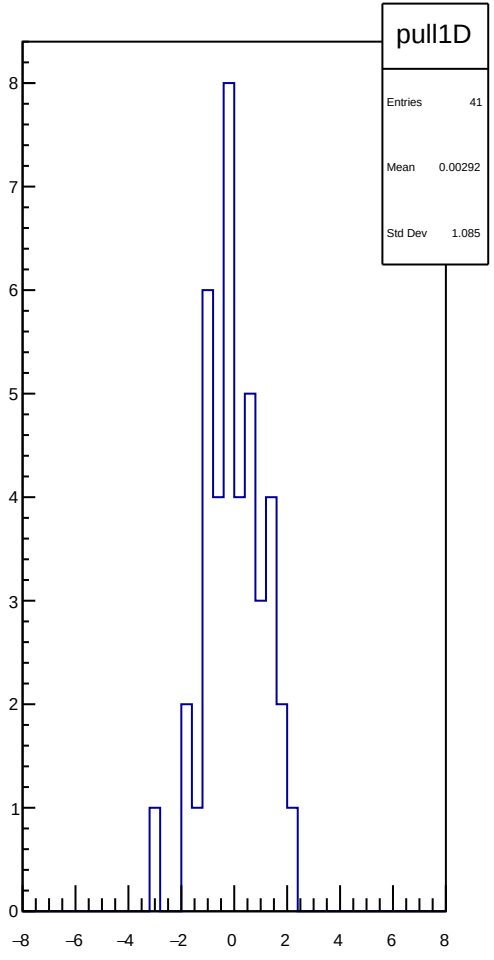

pull1D
Entries 41
Mean 0.00292
Std Dev 1.085
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

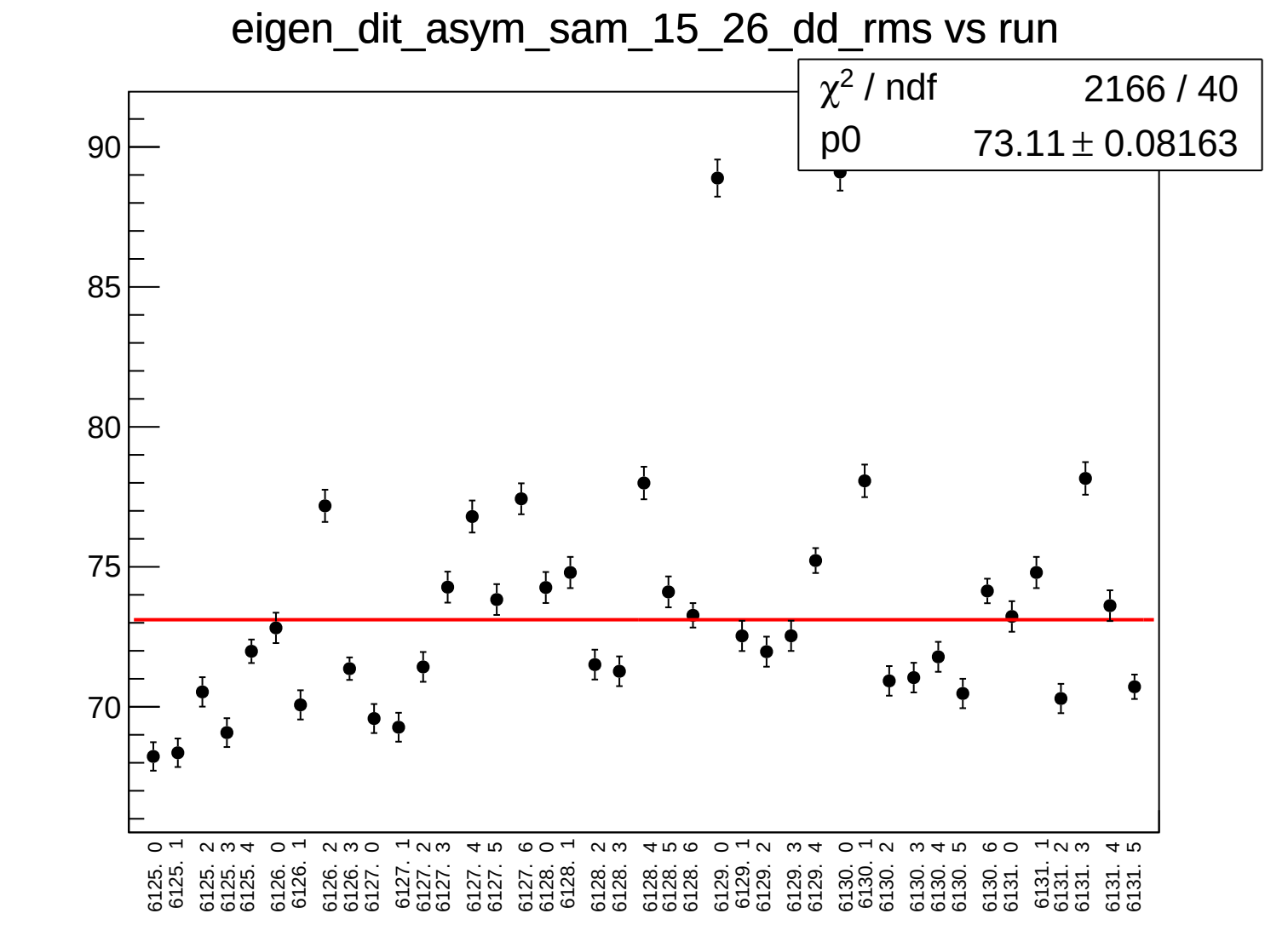

dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 2166 / 40
p0 73.11 ± 0.08163
90
85
80
75
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

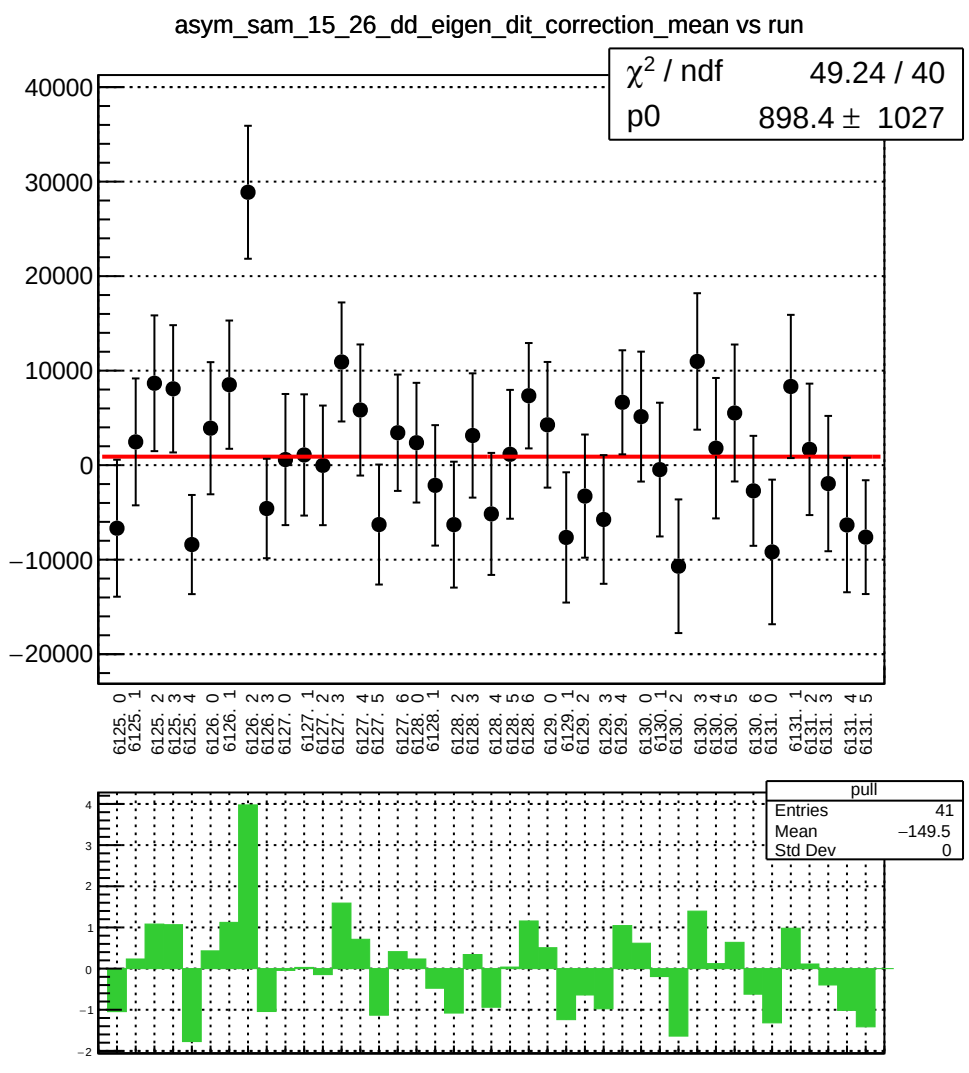

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 49.24 / 40
p0 898.4 ± 1027
40000
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −149.5
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01719
Std Dev 1.096
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

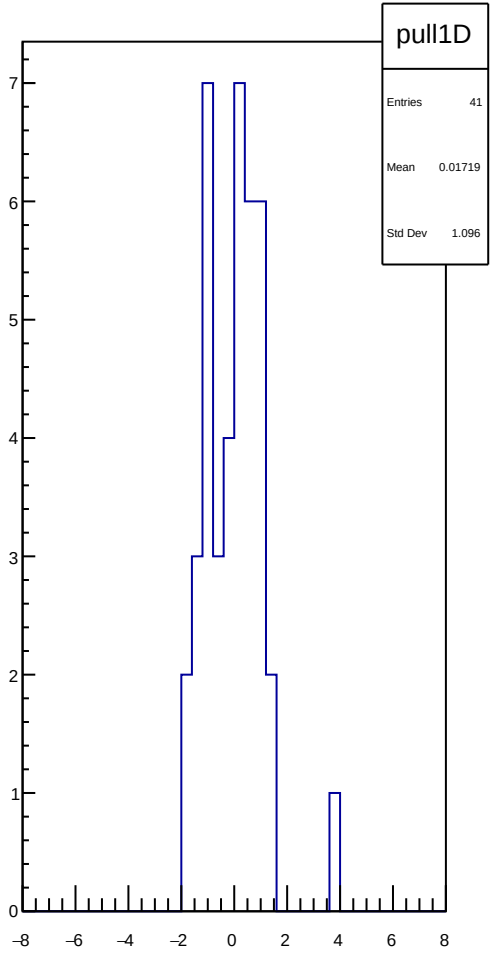

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 2002 / 40
p0 650.3 ± 0.726
740
720
700
680
660
640
620
600
580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

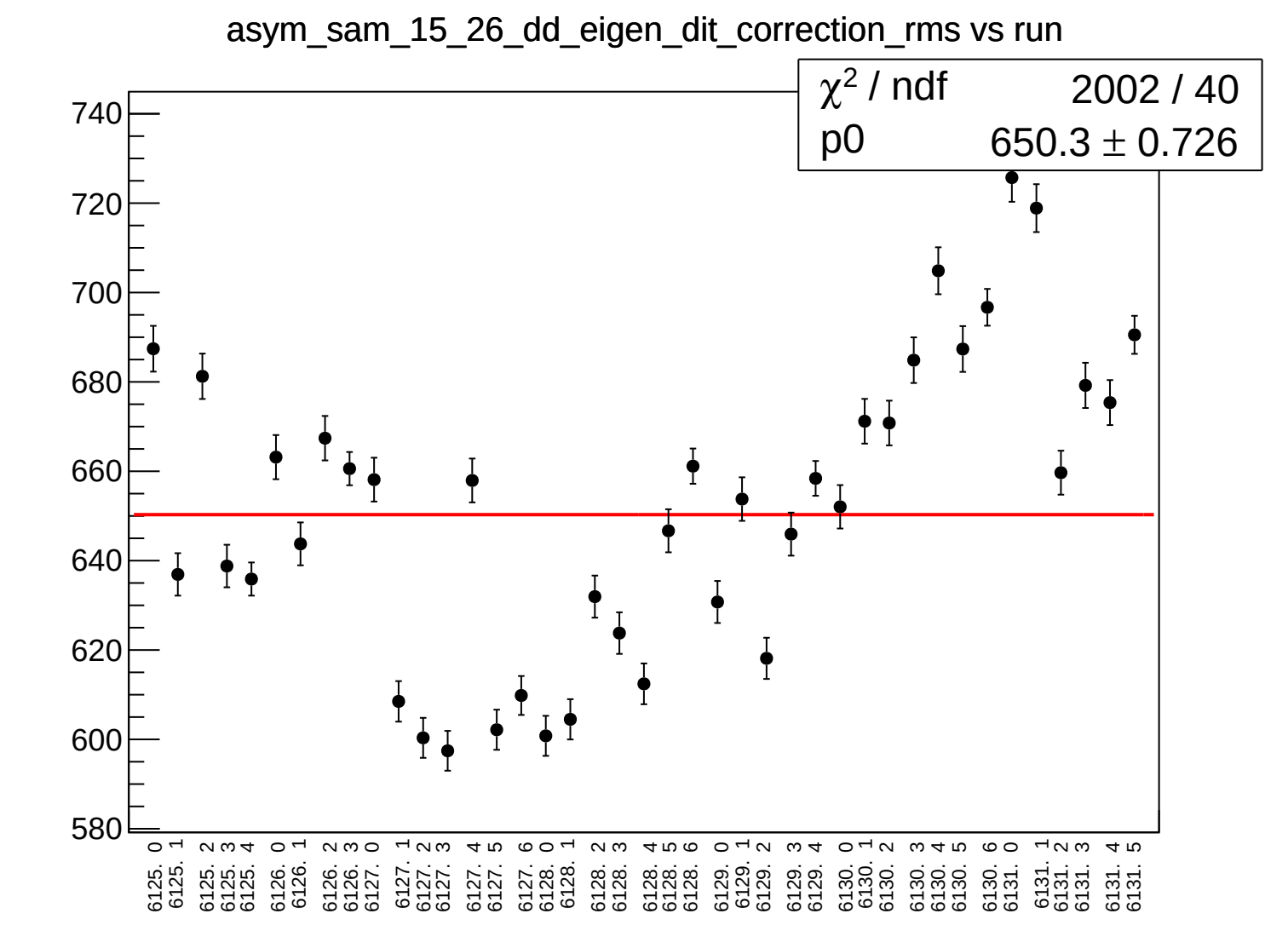

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 48.25 / 40
p0 −173.8 ± 115.4
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 948.3
Std Dev 0
2
1
0
−1
−2
−3

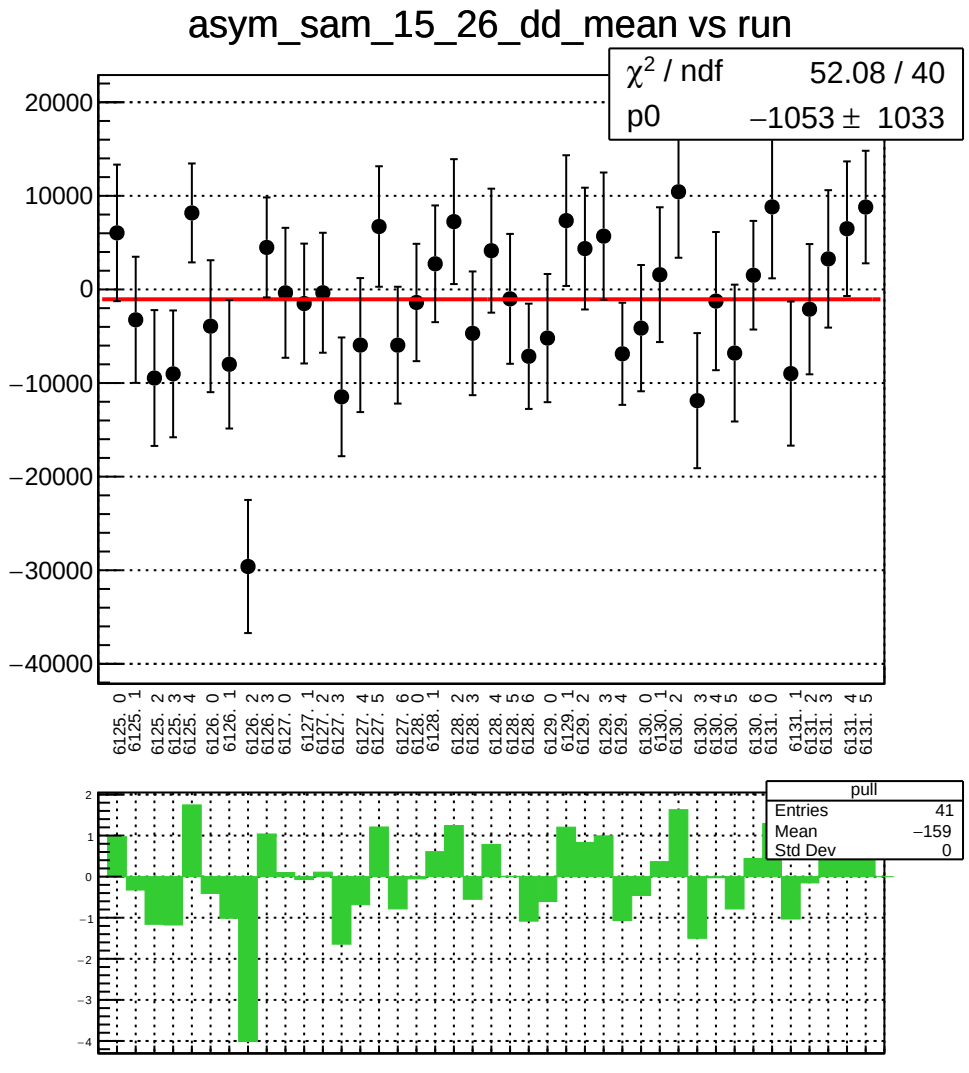

pull1D
Entries 41
Mean 0.00292
Std Dev 1.085
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

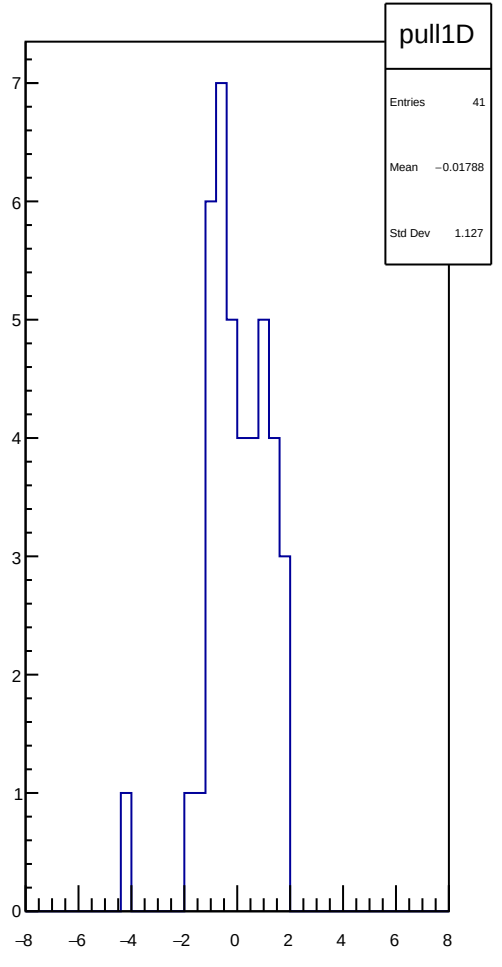

eigen_dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 2166 / 40
p0 73.11 ± 0.08163
90
85
80
75
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

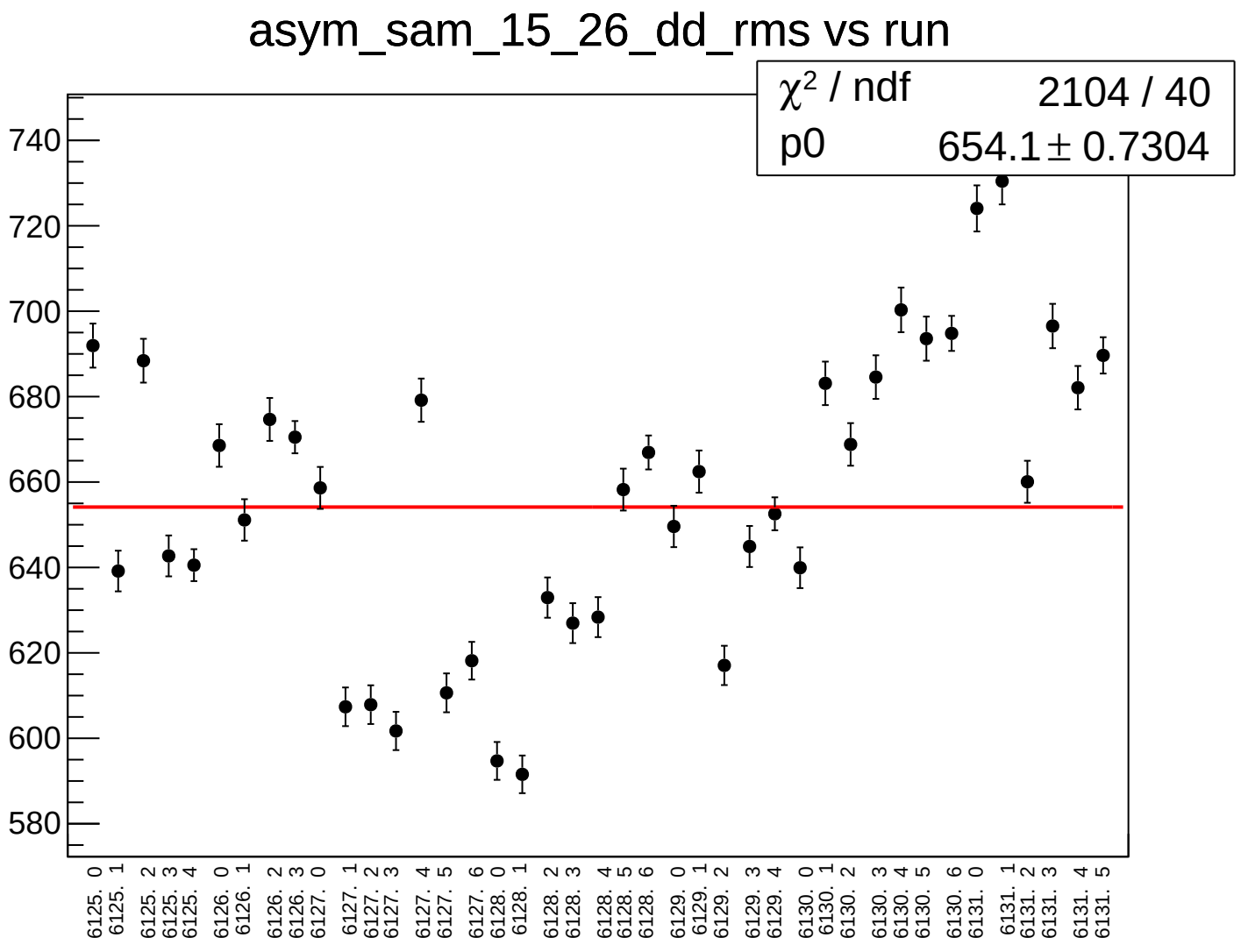

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 49.24 / 40
p0 898.4 ± 1027
40000
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −149.5
Std Dev 0
4
3
2
1
0
−1
−2

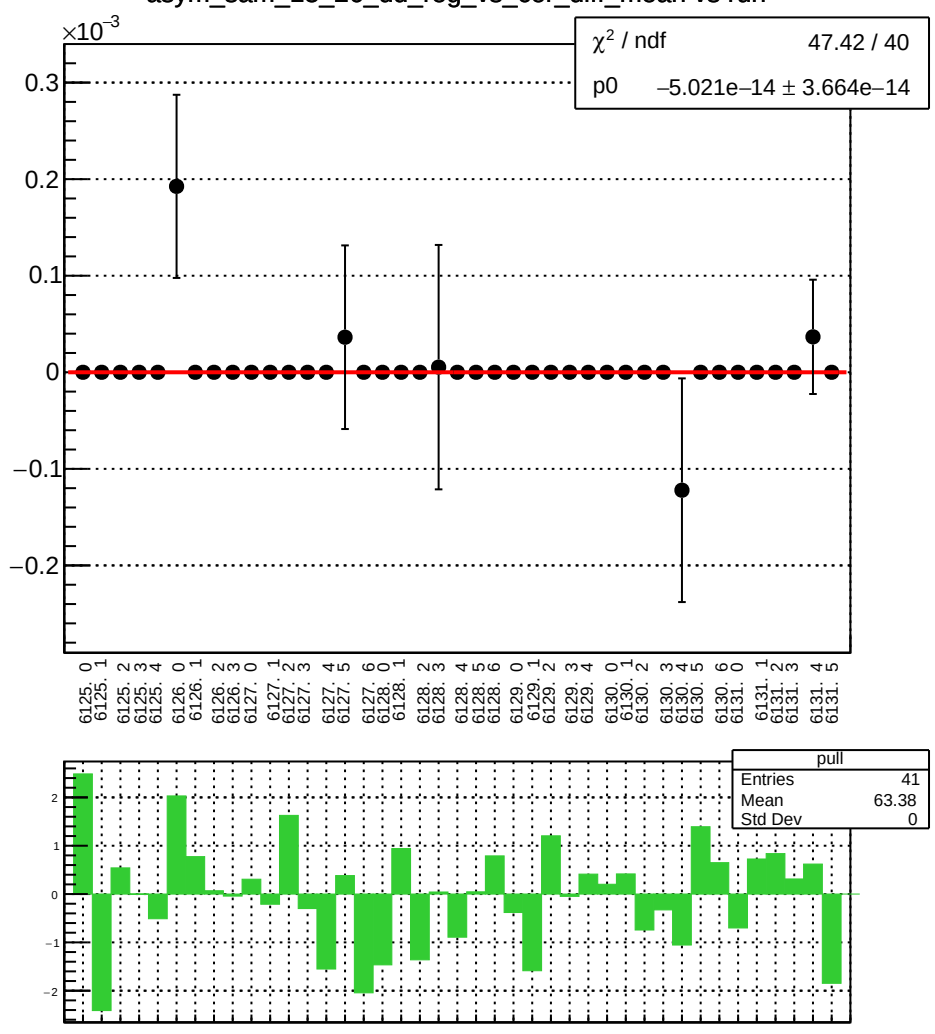

pull1D
Entries 41
Mean 0.01719
Std Dev 1.096
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

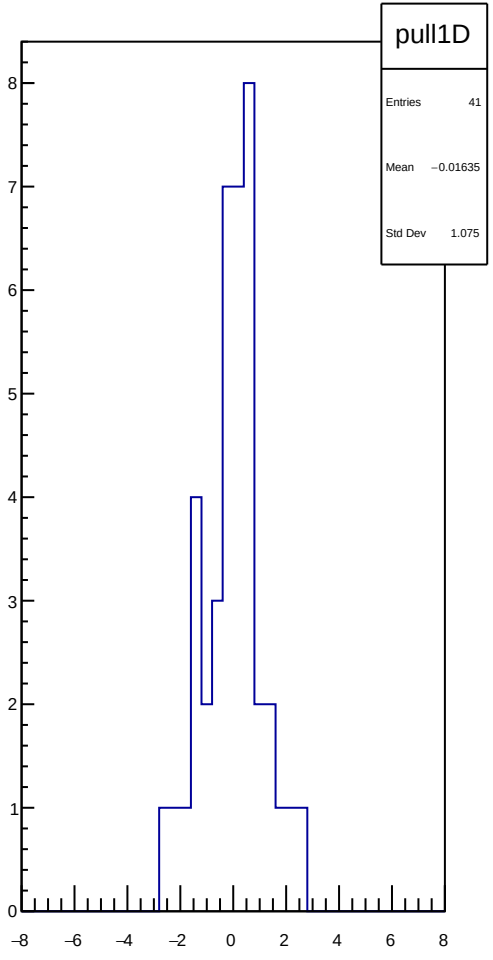

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2002 / 40
p0 650.3 ± 0.726
740
720
700
680
660
640
620
600
580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

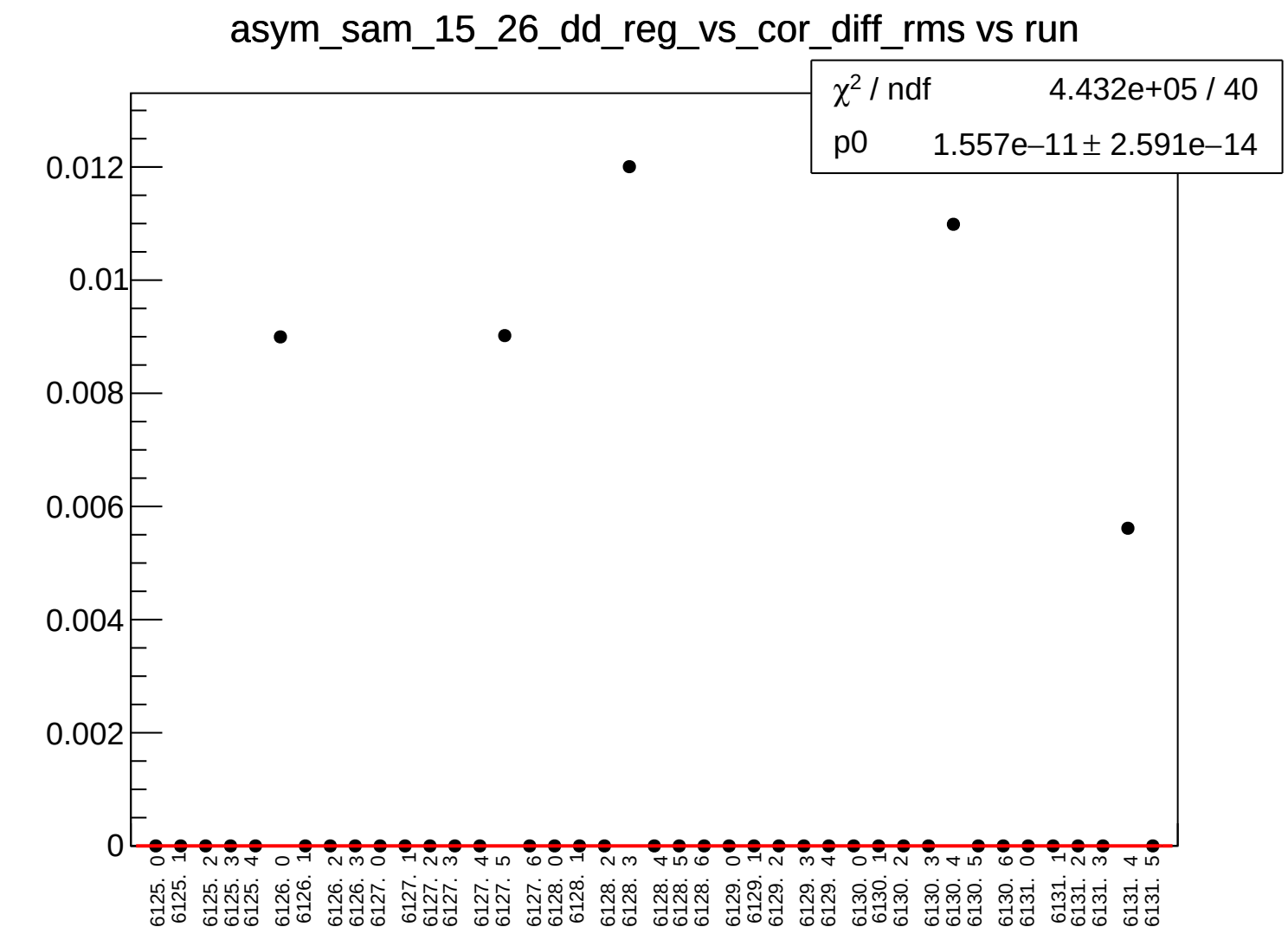

asym_sam_15_26_dd_mean vs run
χ² / ndf 52.08 / 40
p0 −1053 ± 1033
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −159
Std Dev 0
2
1
0
−1
−2
−3
−4

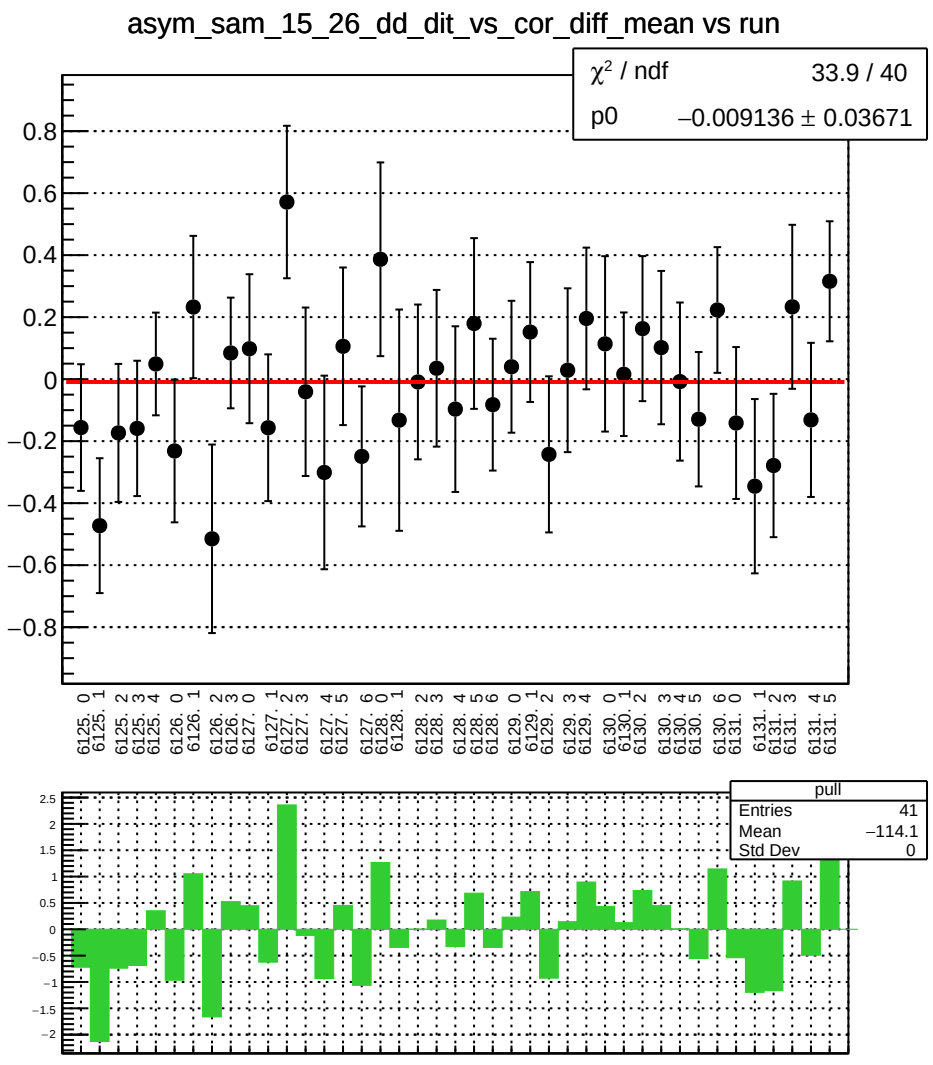

pull1D
Entries 41
Mean −0.01788
Std Dev 1.127
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

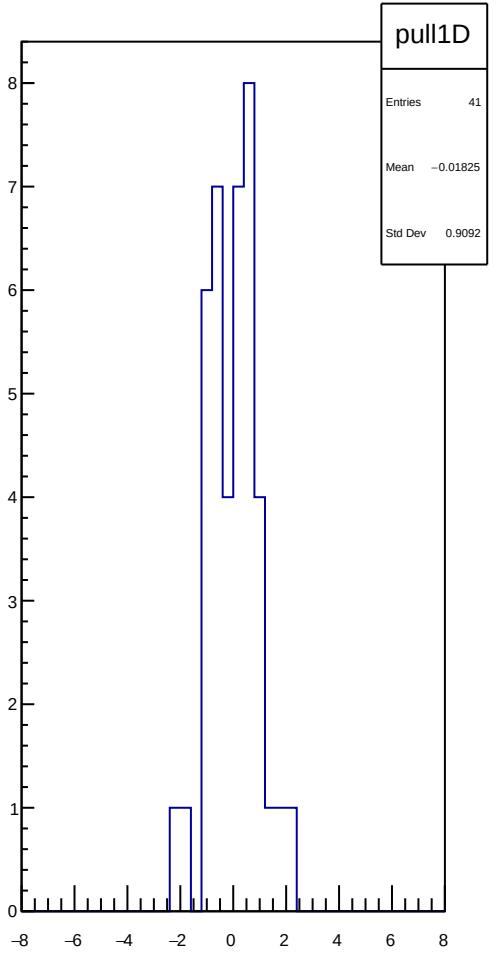

asym_sam_15_26_dd_rms vs run
χ² / ndf 2104 / 40
p0 654.1 ± 0.7304
740
720
700
680
660
640
620
600
580
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

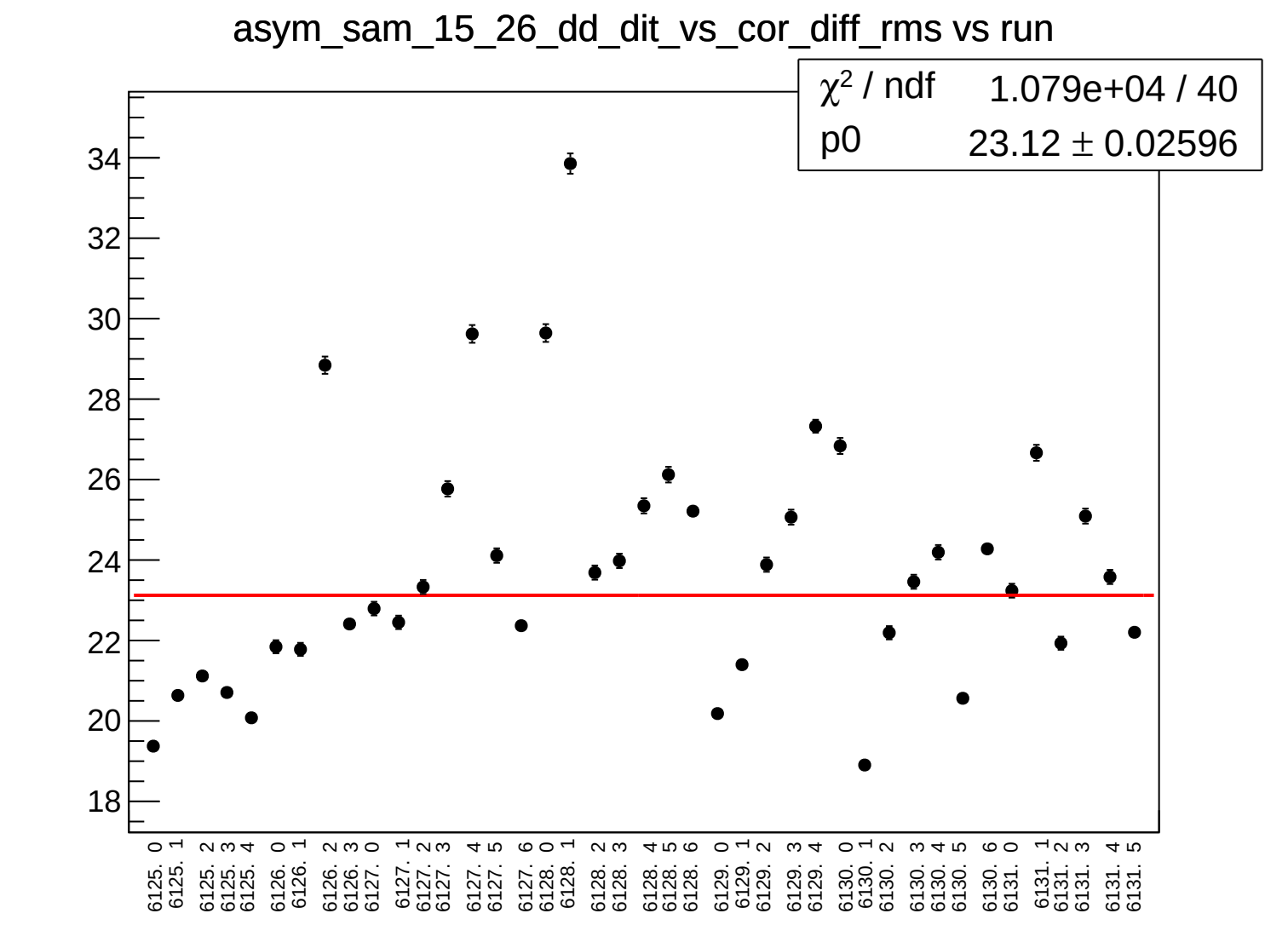

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 47.42 / 40
p0 −5.021e−14 ± 3.664e−14
0.3
0.2
0.1
0
−0.1
−0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 63.38
Std Dev 0
2
1
0
−1
−2

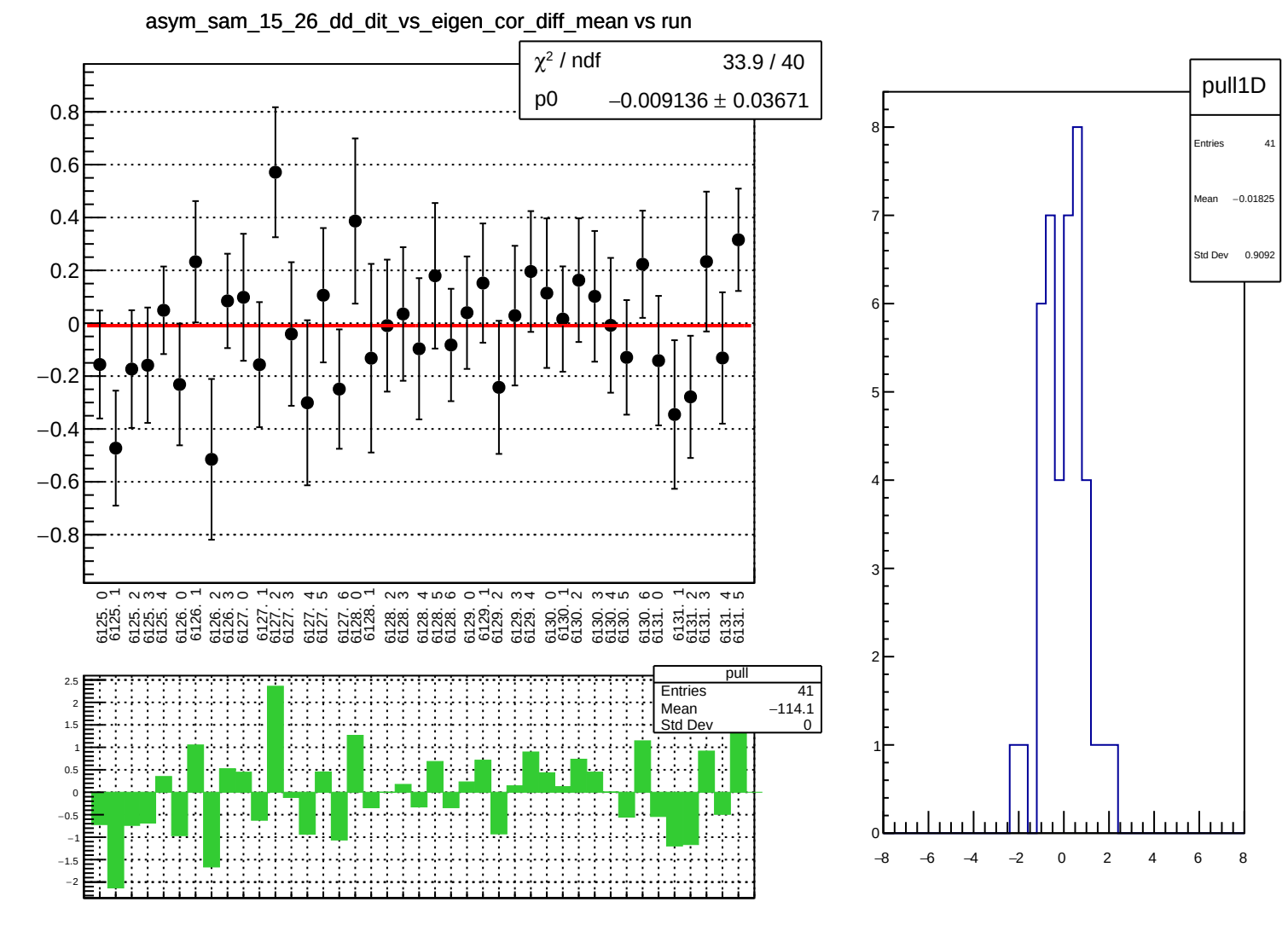

pull1D
Entries 41
Mean −0.01635
Std Dev 1.075
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

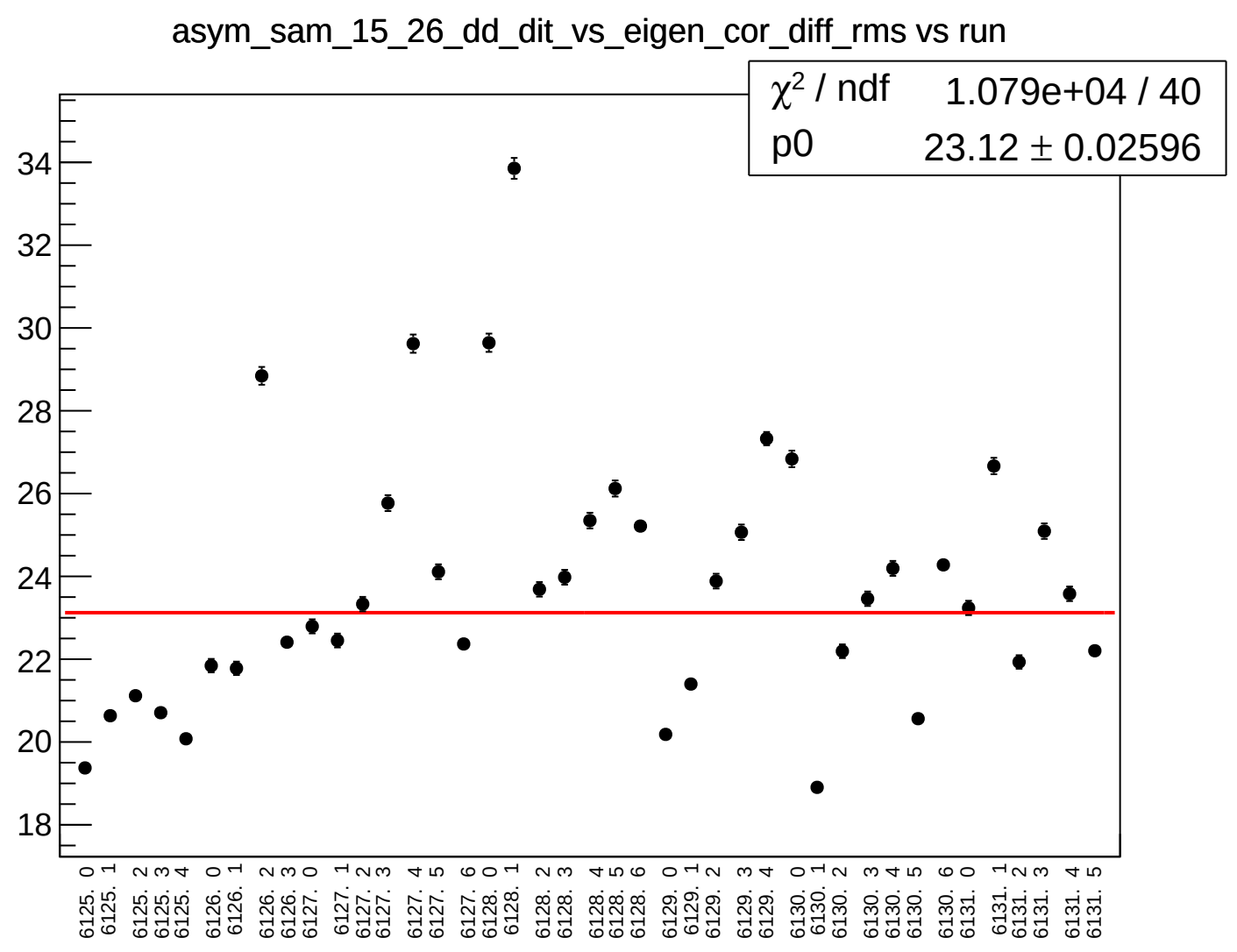

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.432e+05 / 40
p0 1.557e−11 ± 2.591e−14
0.012
0.01
0.008
0.006
0.004
0.002
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

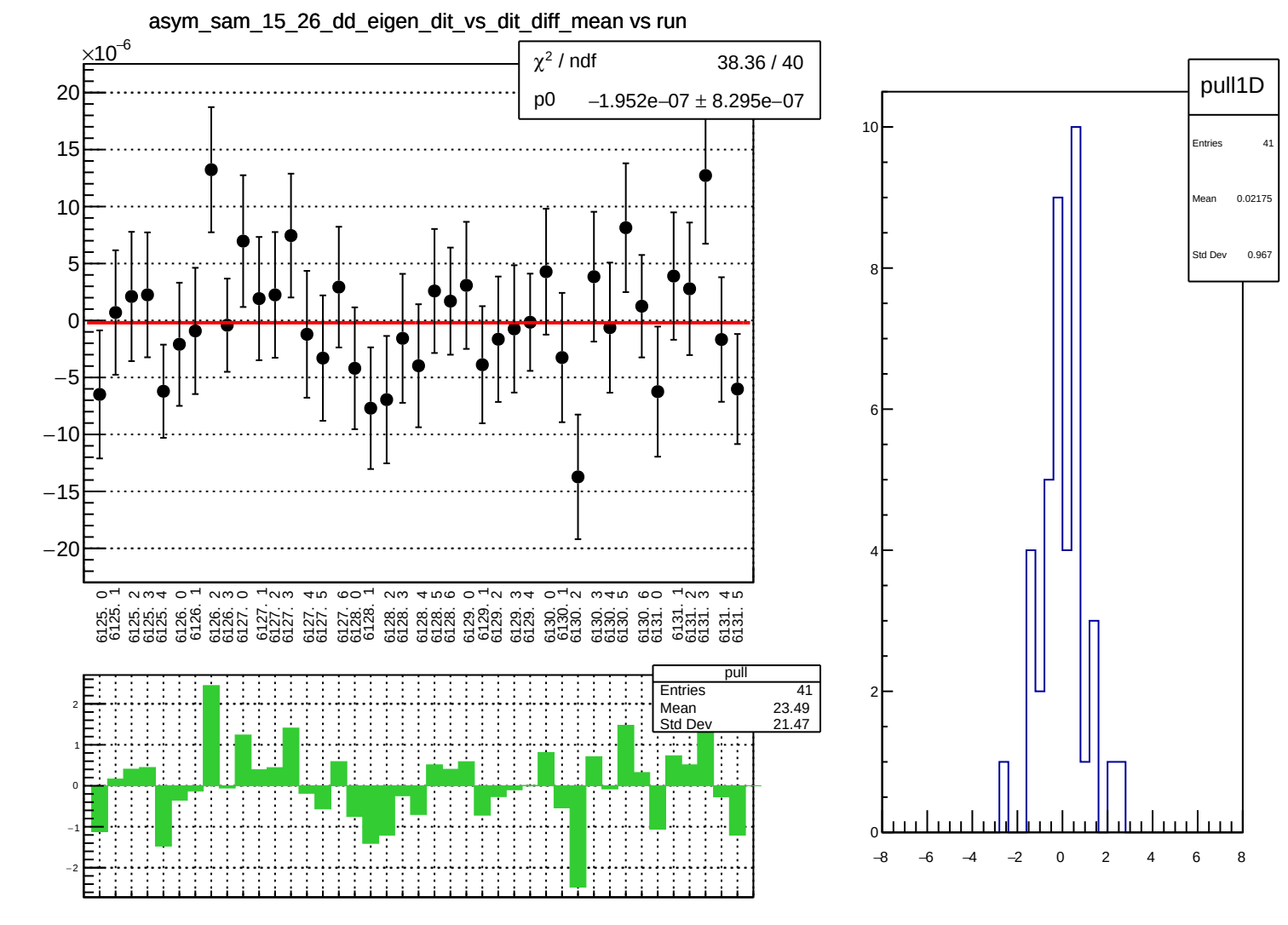

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 33.9 / 40
p0 −0.009136 ± 0.03671
pull
Entries 41
Mean −114.1
Std Dev 0

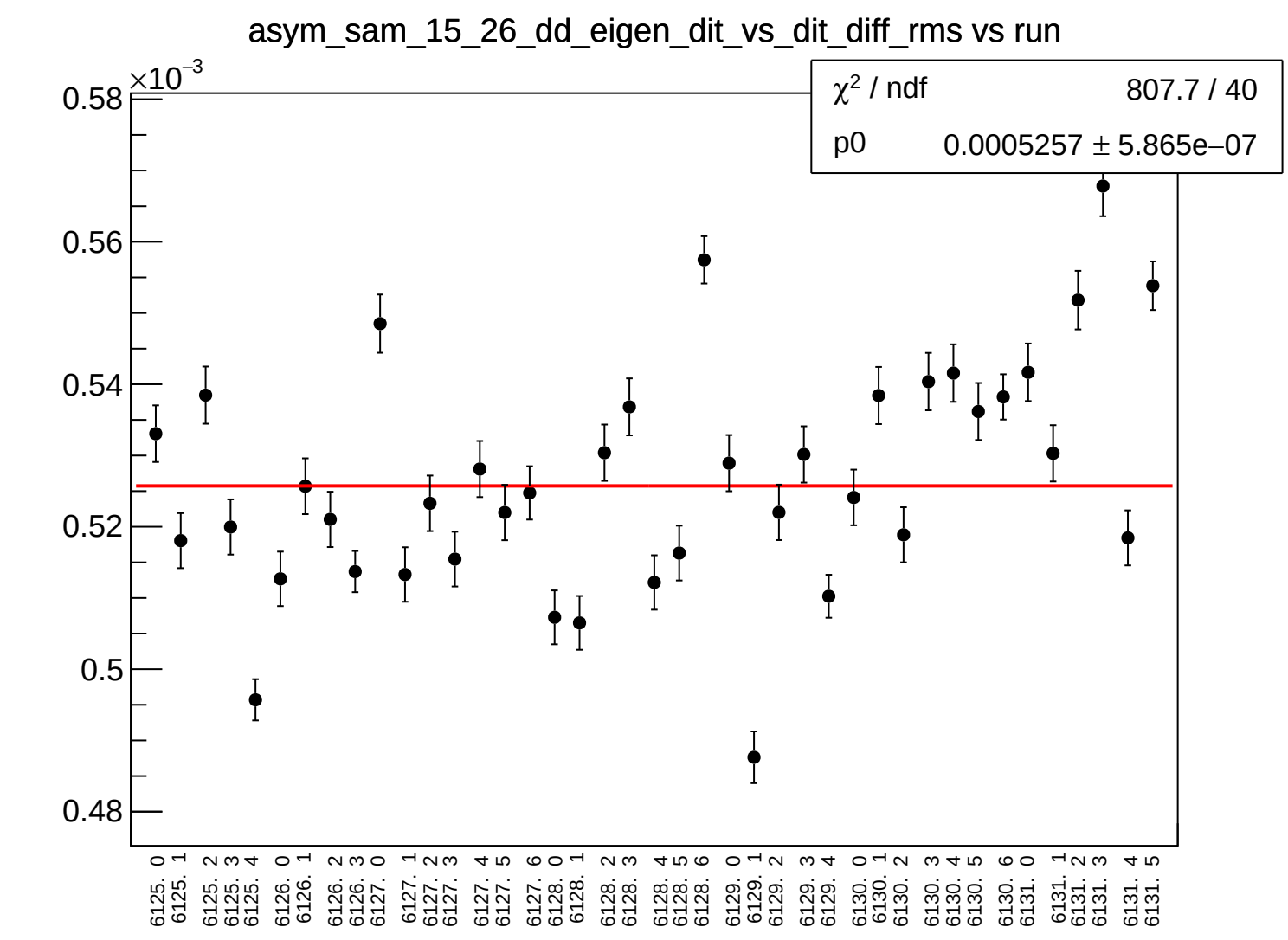

pull1D
Entries 41
Mean −0.01825
Std Dev 0.9092

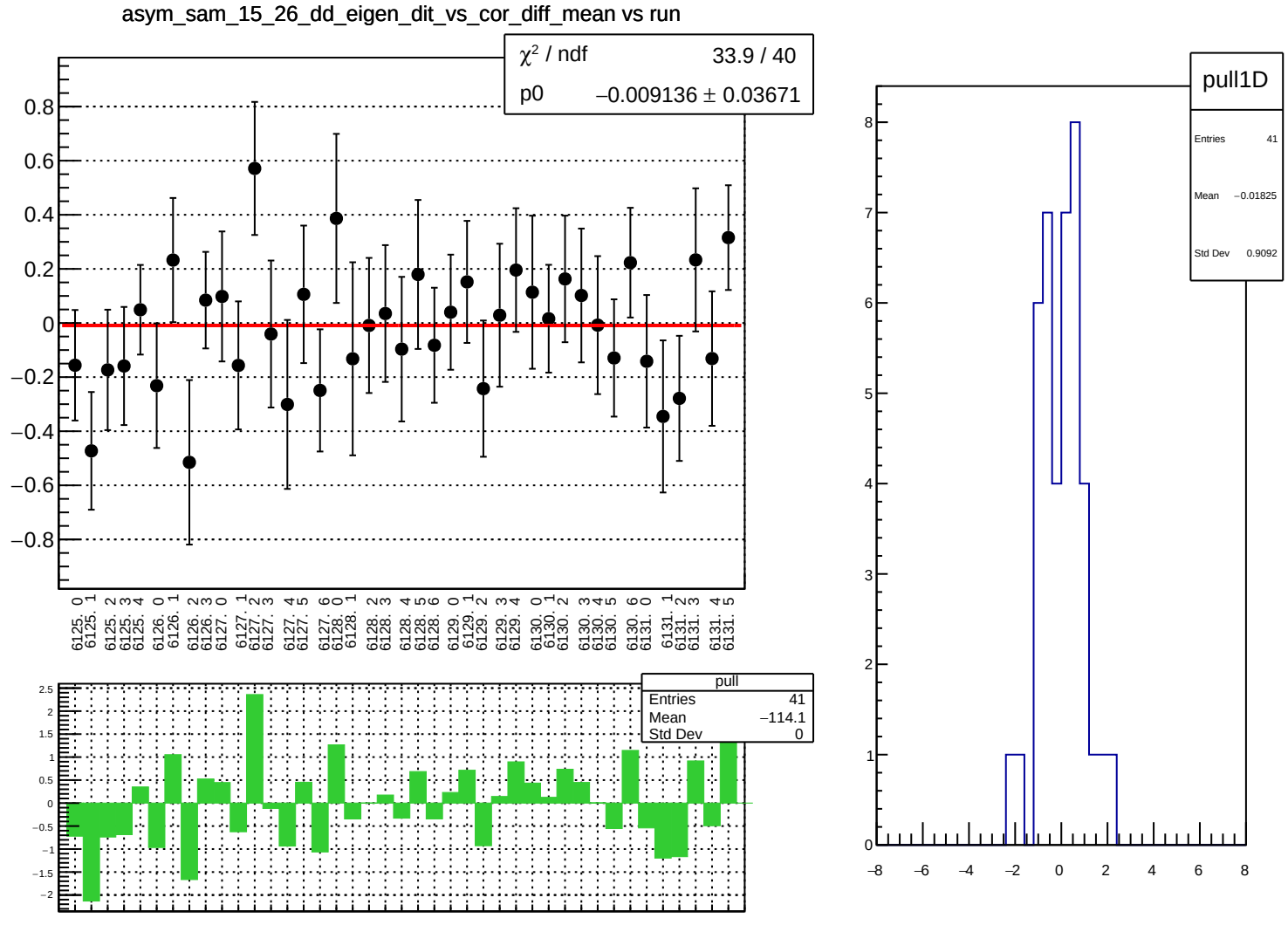

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.079e+04 / 40
p0 23.12 ± 0.02596
34
32
30
28
26
24
22
20
18
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

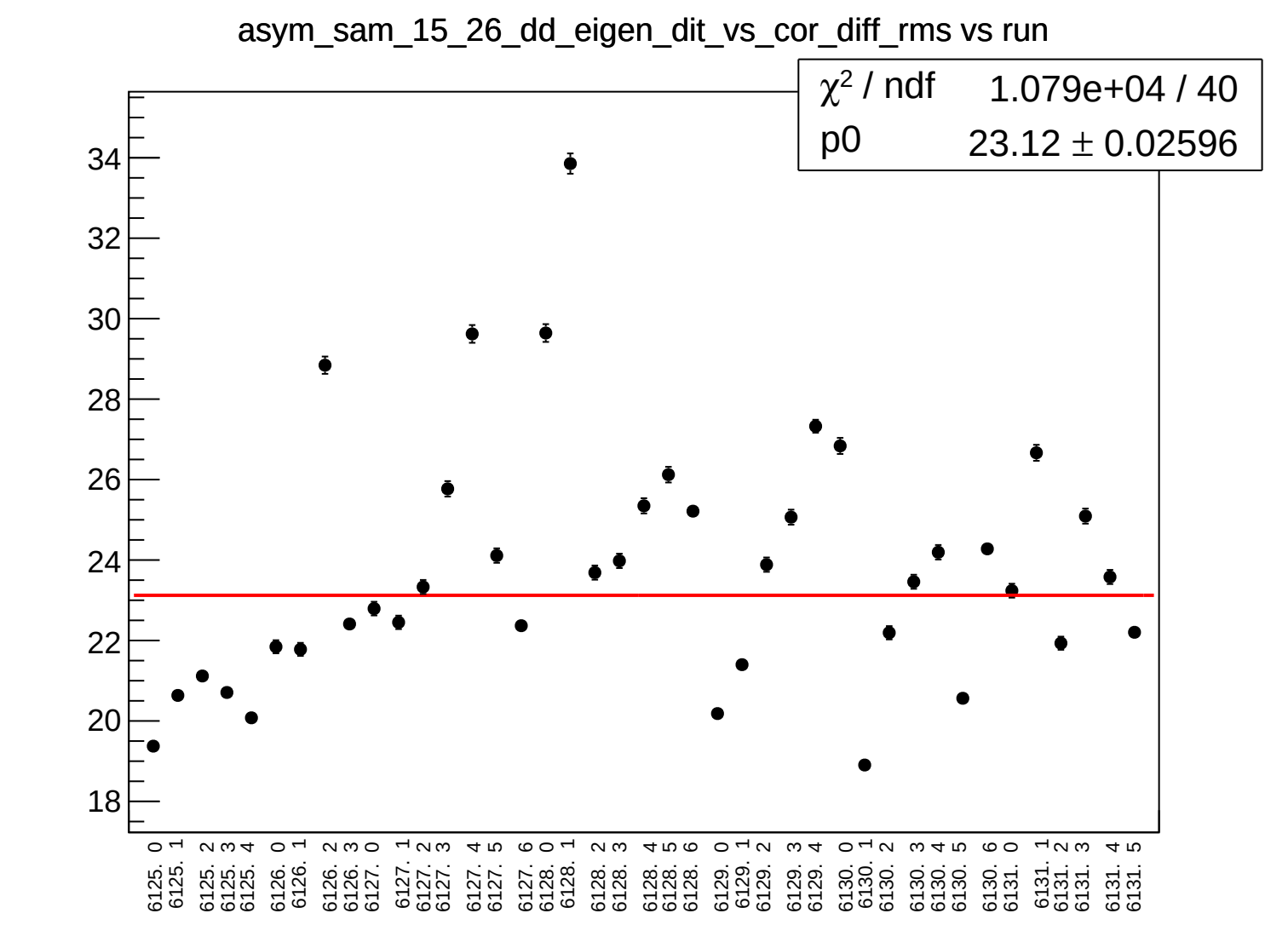

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.9 / 40
p0 −0.009136 ± 0.03671
pull
Entries 41
Mean −114.1
Std Dev 0
pull1D
Entries 41
Mean −0.01825
Std Dev 0.9092

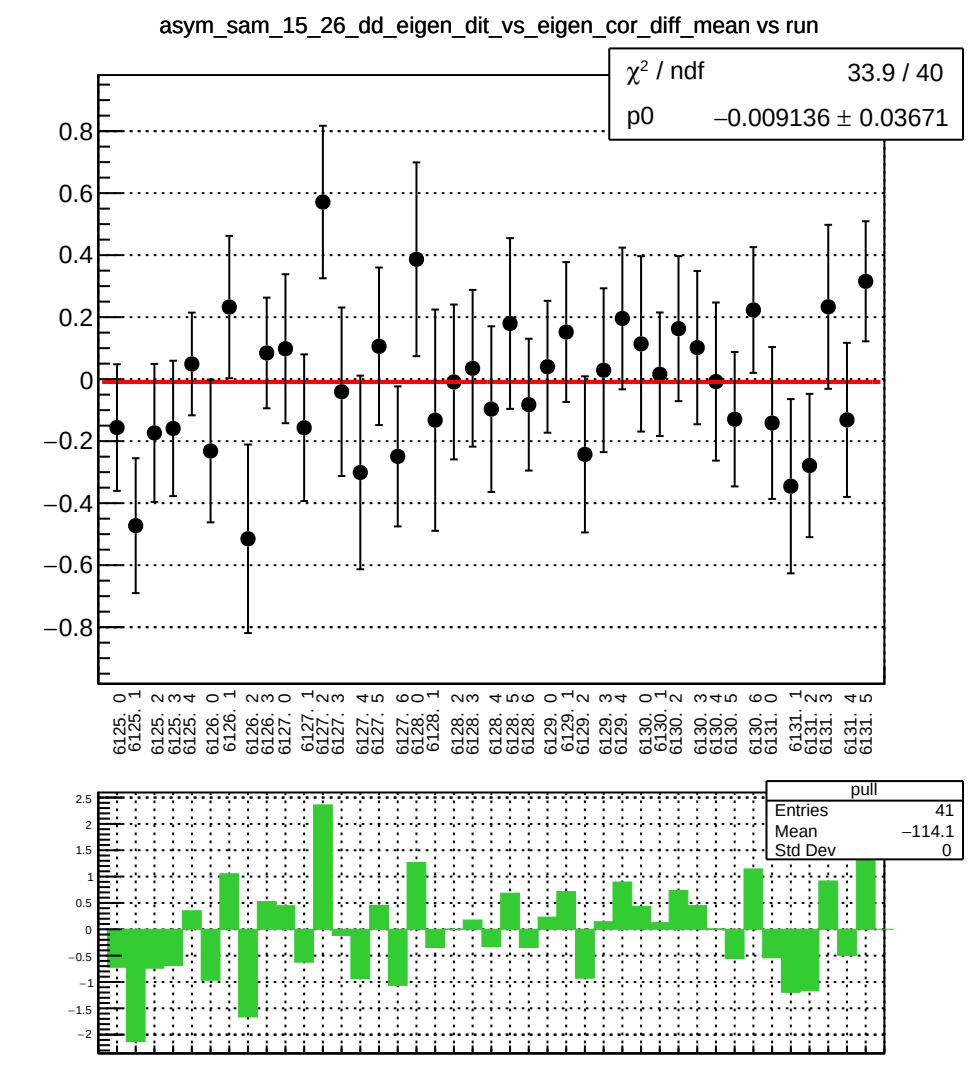

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.079e+04 / 40
p0 23.12 ± 0.02596
34
32
30
28
26
24
22
20
18
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

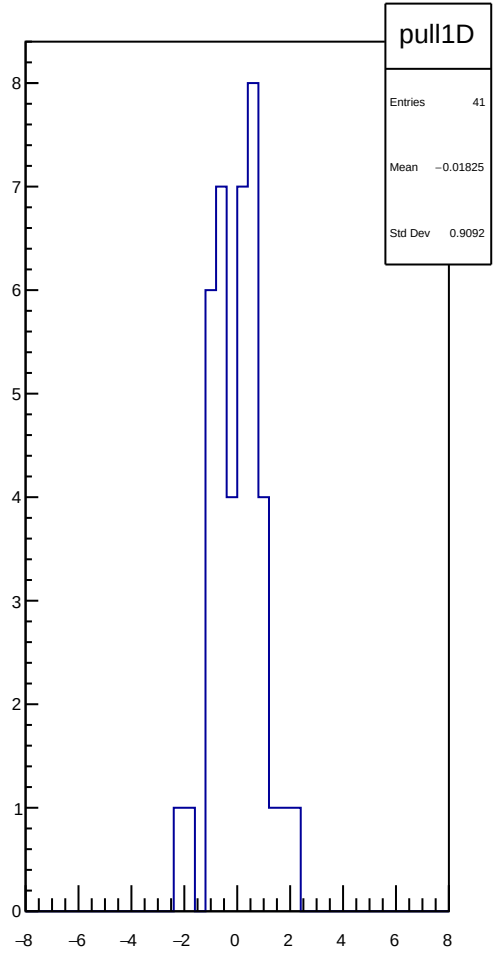

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 38.36 / 40
p0 −1.952e−07 ± 8.295e−07
pull
Entries 41
Mean 23.49
Std Dev 21.47
pull1D
Entries 41
Mean 0.02175
Std Dev 0.967

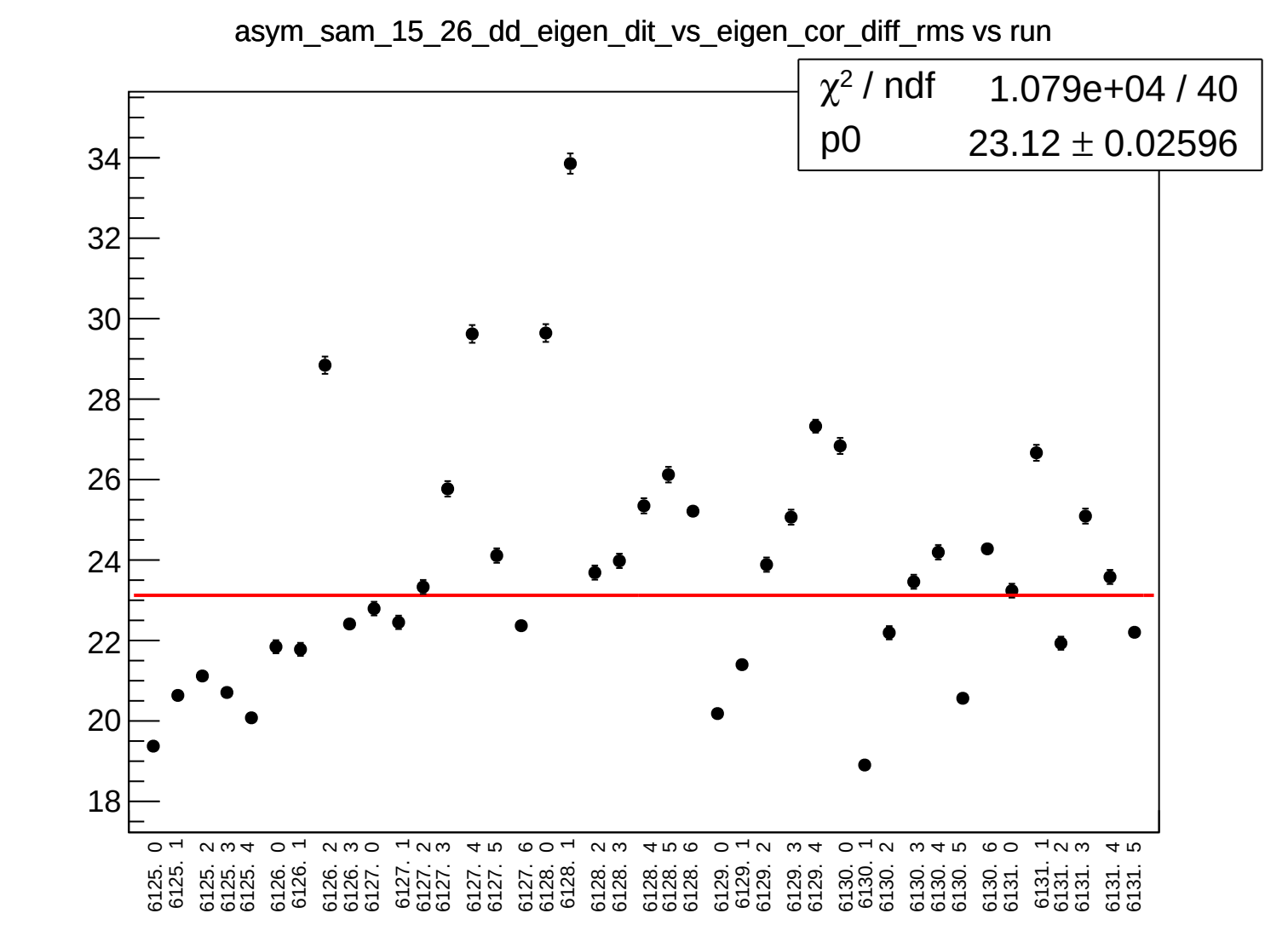

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 807.7 / 40
p0 0.0005257 ± 5.865e−07
0.58
0.56
0.54
0.52
0.5
0.48
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

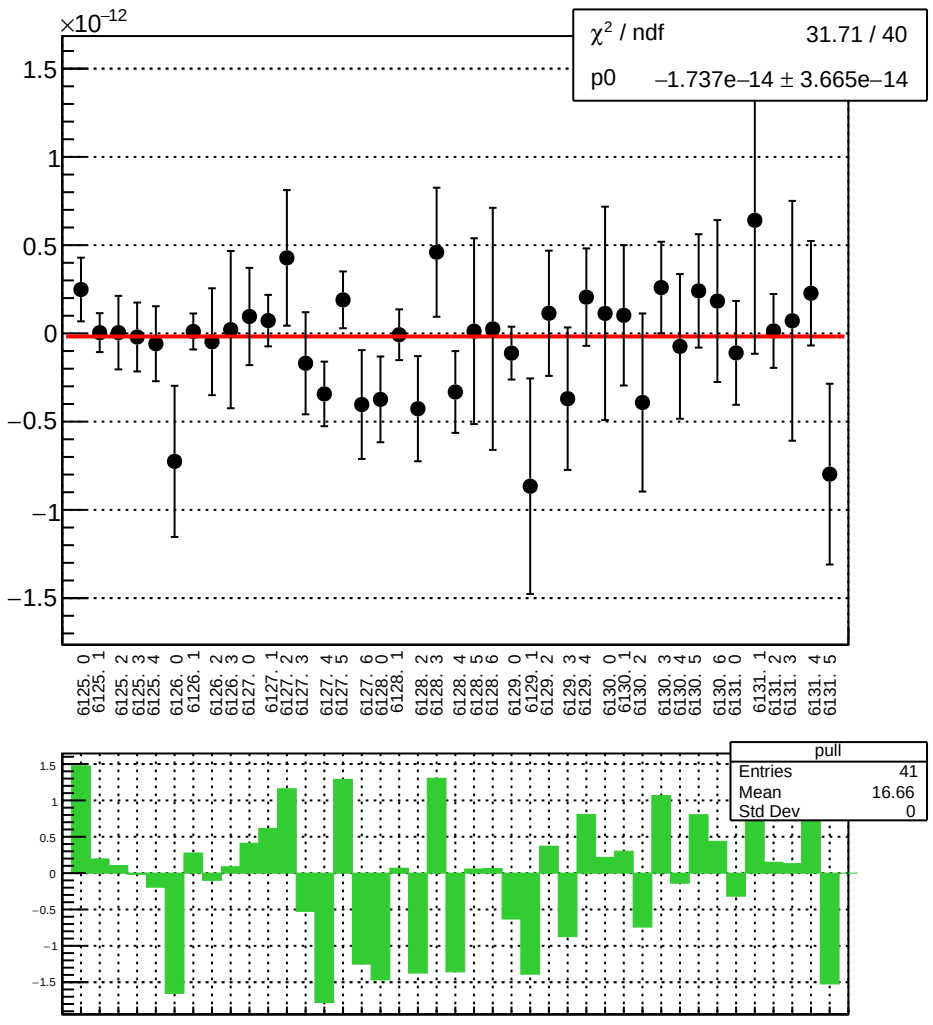

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 33.9 / 40
p0 −0.009136 ± 0.03671
pull
Entries 41
Mean −114.1
Std Dev 0
pull1D
Entries 41
Mean −0.01825
Std Dev 0.9092

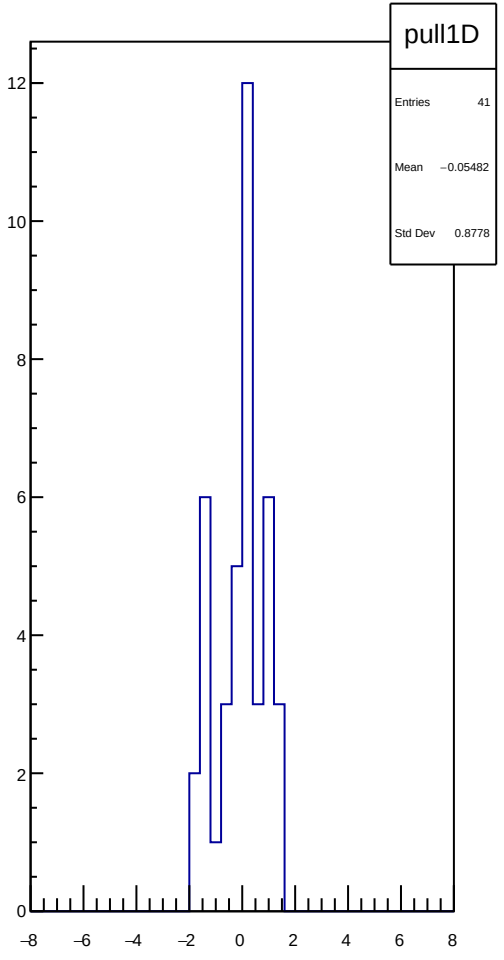

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.079e+04 / 40
p0 23.12 ± 0.02596
34
32
30
28
26
24
22
20
18
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

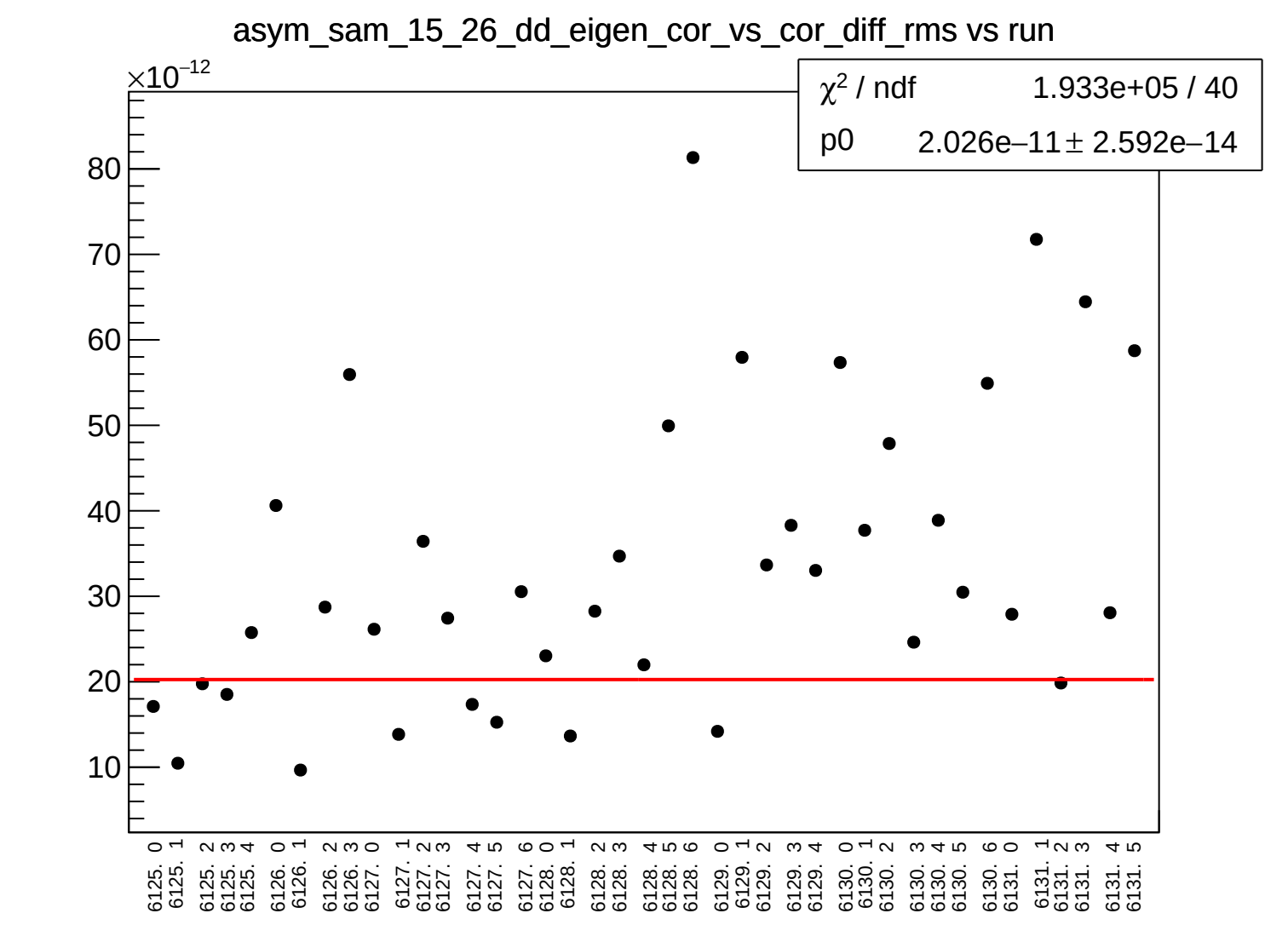

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.9 / 40
p0 −0.009136 ± 0.03671
pull
Entries 41
Mean −114.1
Std Dev 0

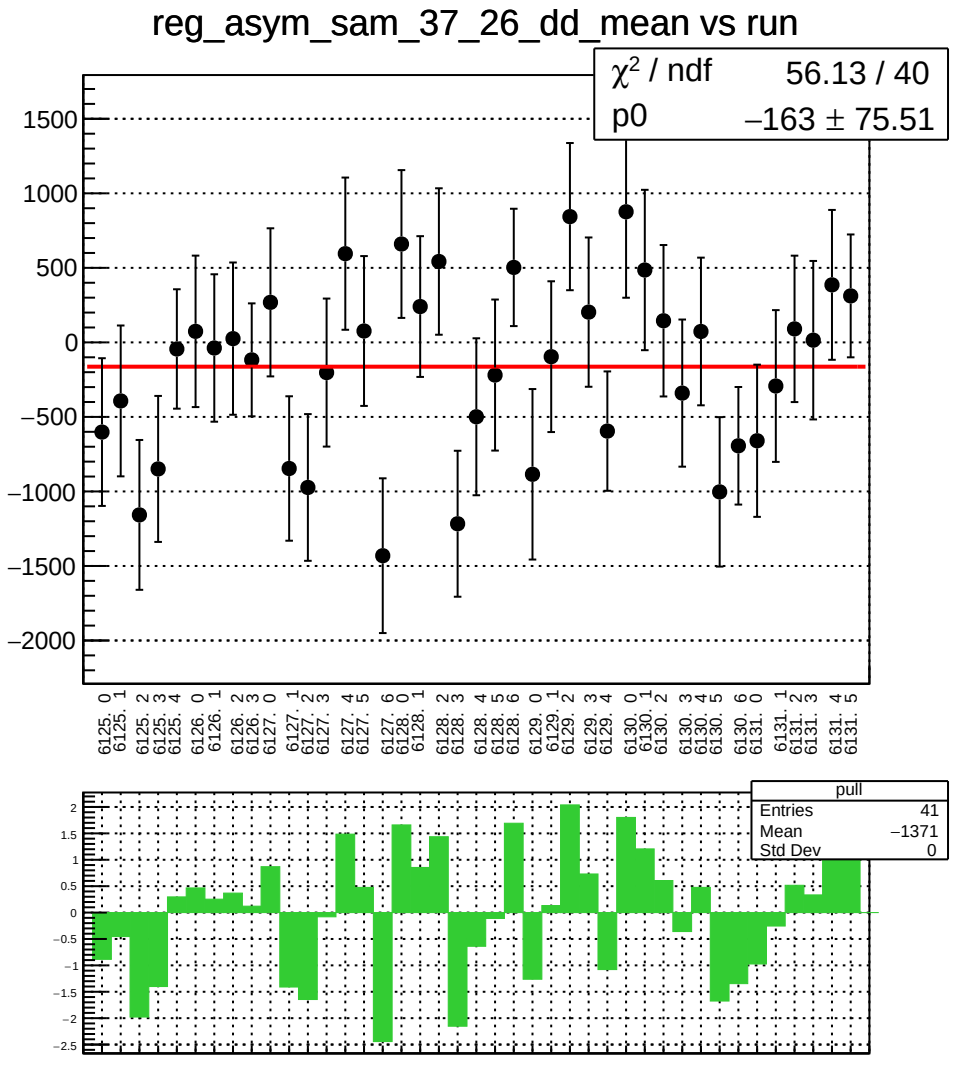

pull1D
Entries 41
Mean −0.01825
Std Dev 0.9092

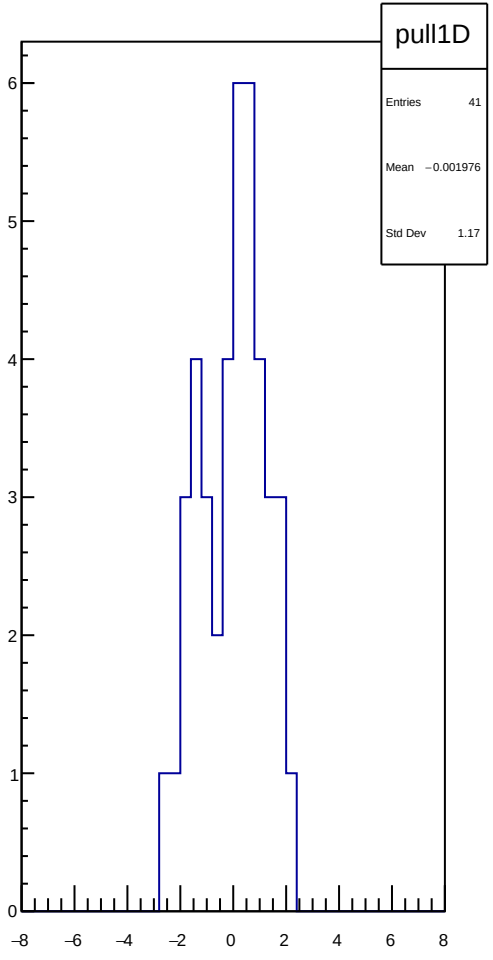

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.079e+04 / 40
p0 23.12 ± 0.02596
34
32
30
28
26
24
22
20
18
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

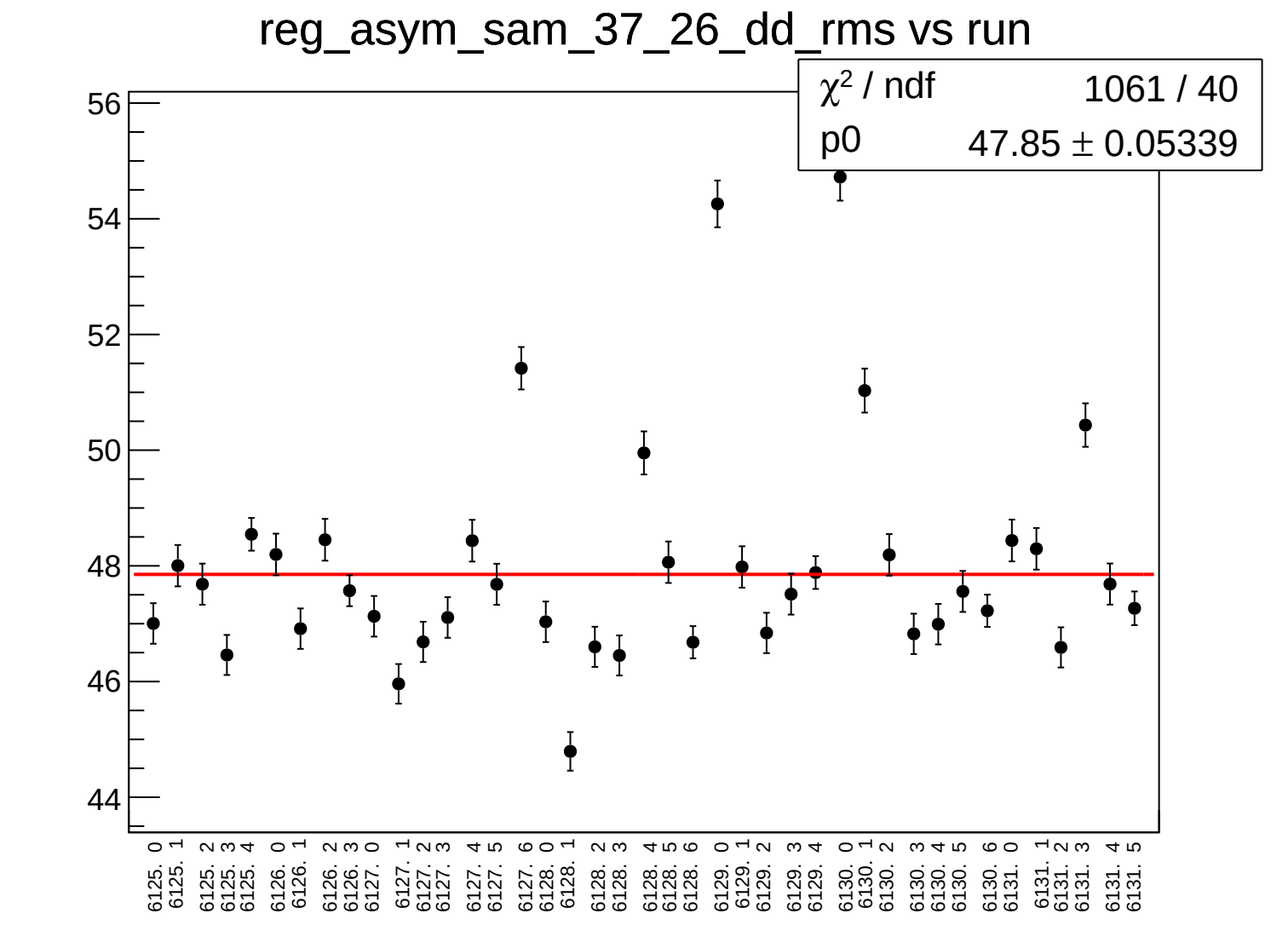

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 31.71 / 40
p0 −1.737e−14 ± 3.665e−14
pull
Entries 41
Mean 16.66
Std Dev 0

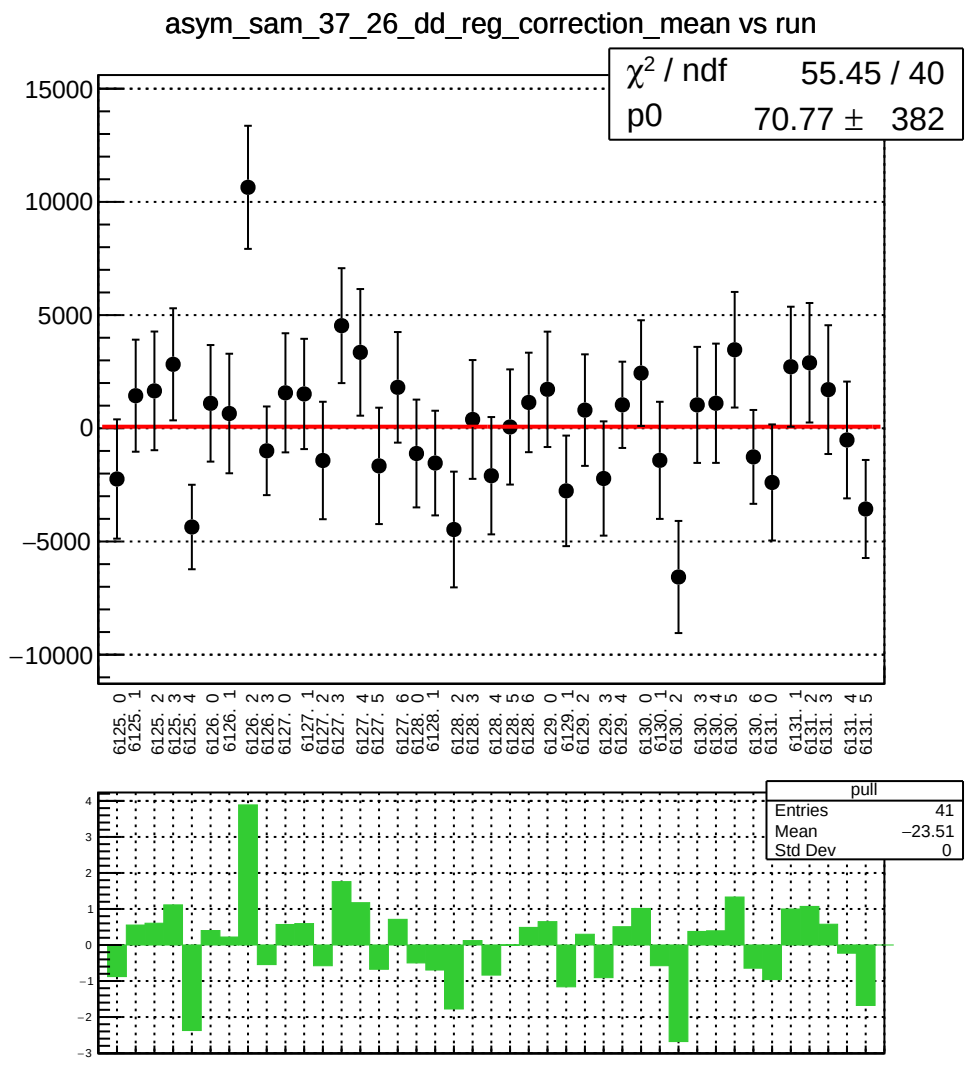

pull1D
Entries 41
Mean −0.05482
Std Dev 0.8778

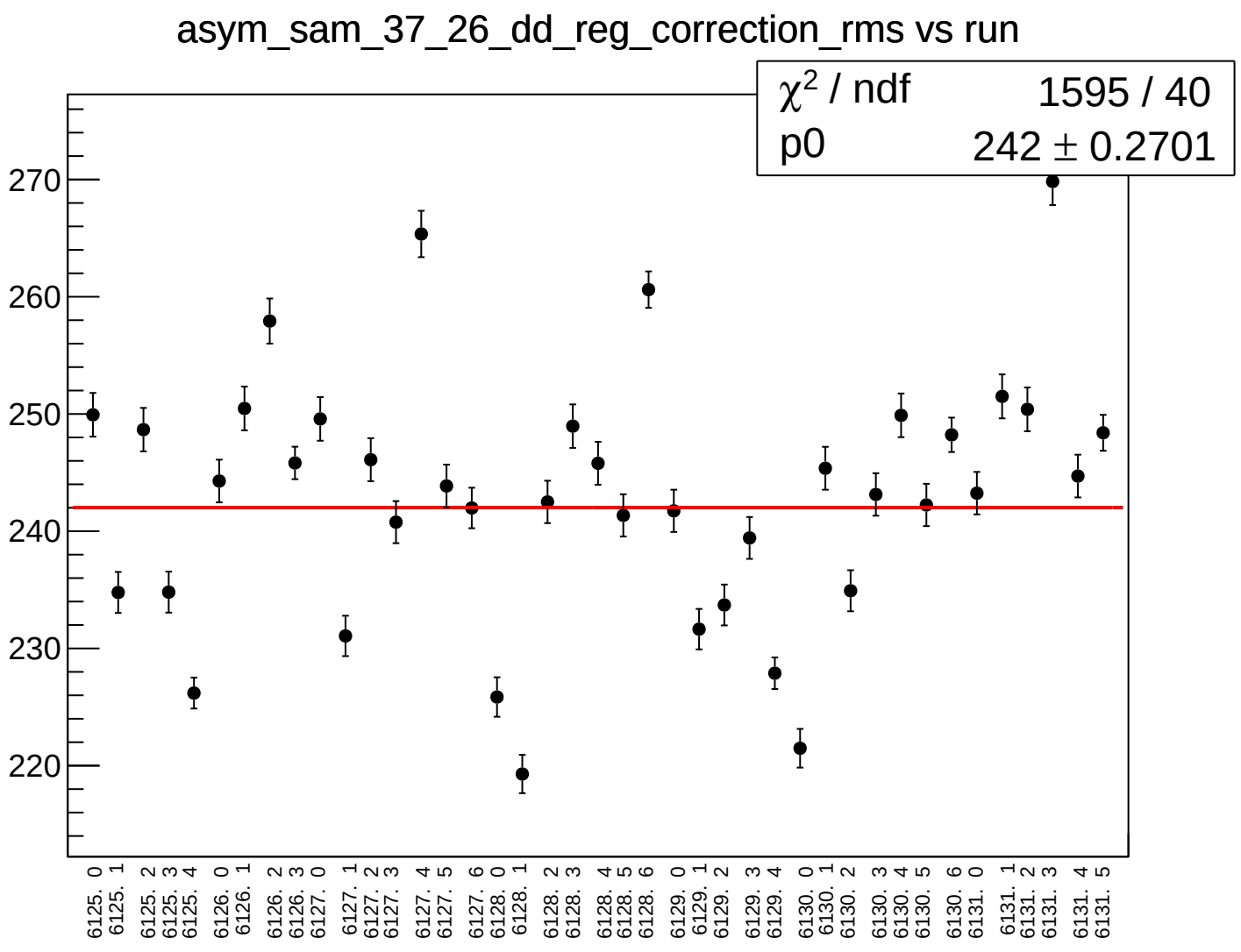

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 1.933e+05 / 40
p0 2.026e−11 ± 2.592e−14
80
70
60
50
40
30
20
10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

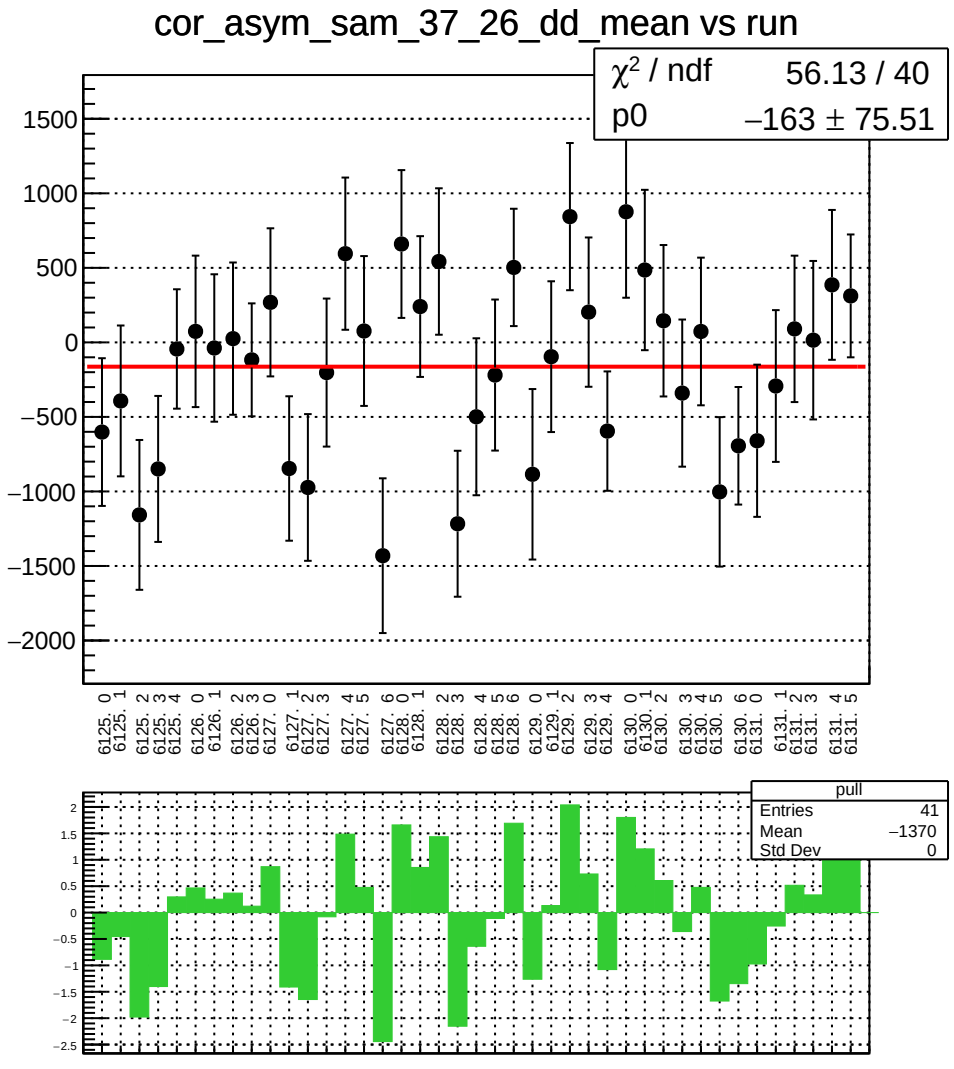

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 56.13 / 40
p0 −163 ± 75.51
1500
1000
500
0
−500
−1000
−1500
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1371
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

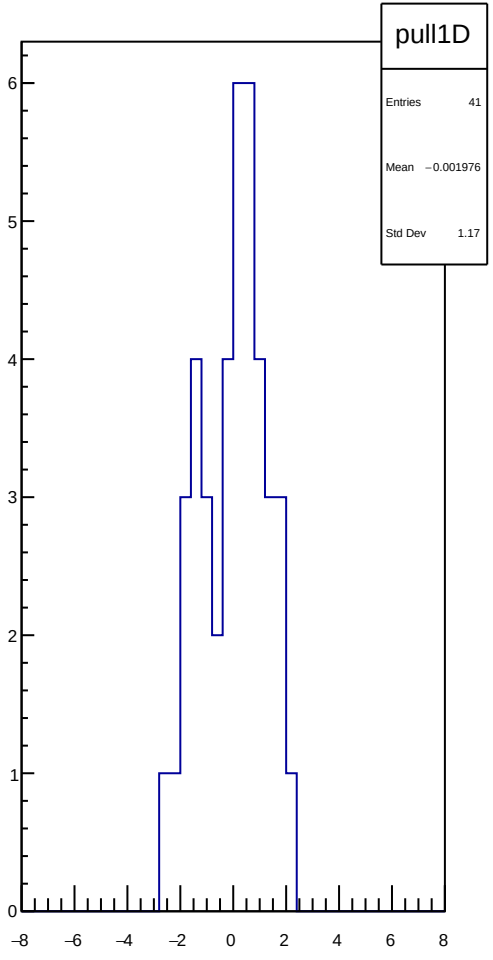

pull1D
Entries 41
Mean −0.001976
Std Dev 1.17
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

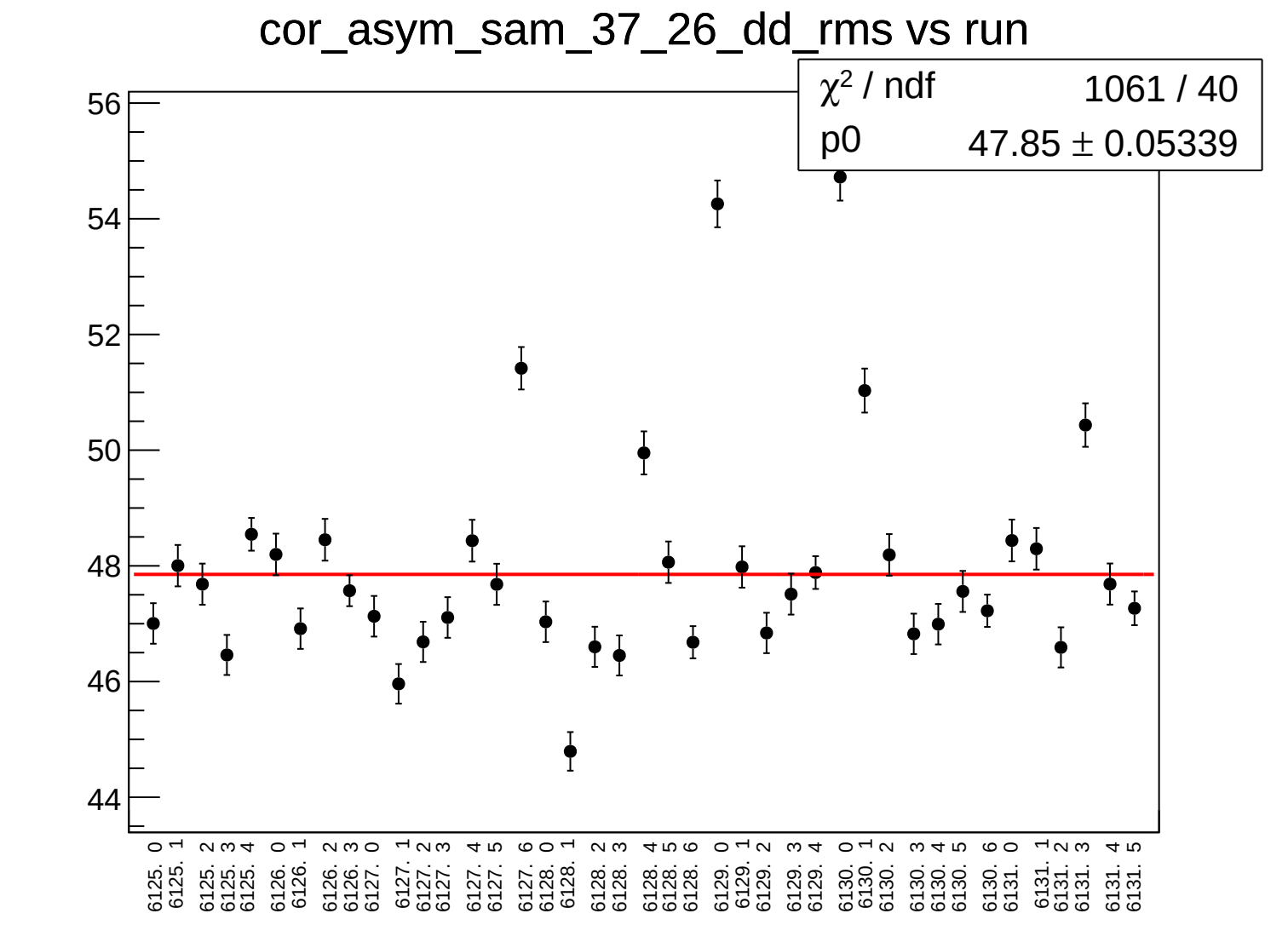

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 1061 / 40
p0 47.85 ± 0.05339
56
54
52
50
48
46
44
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

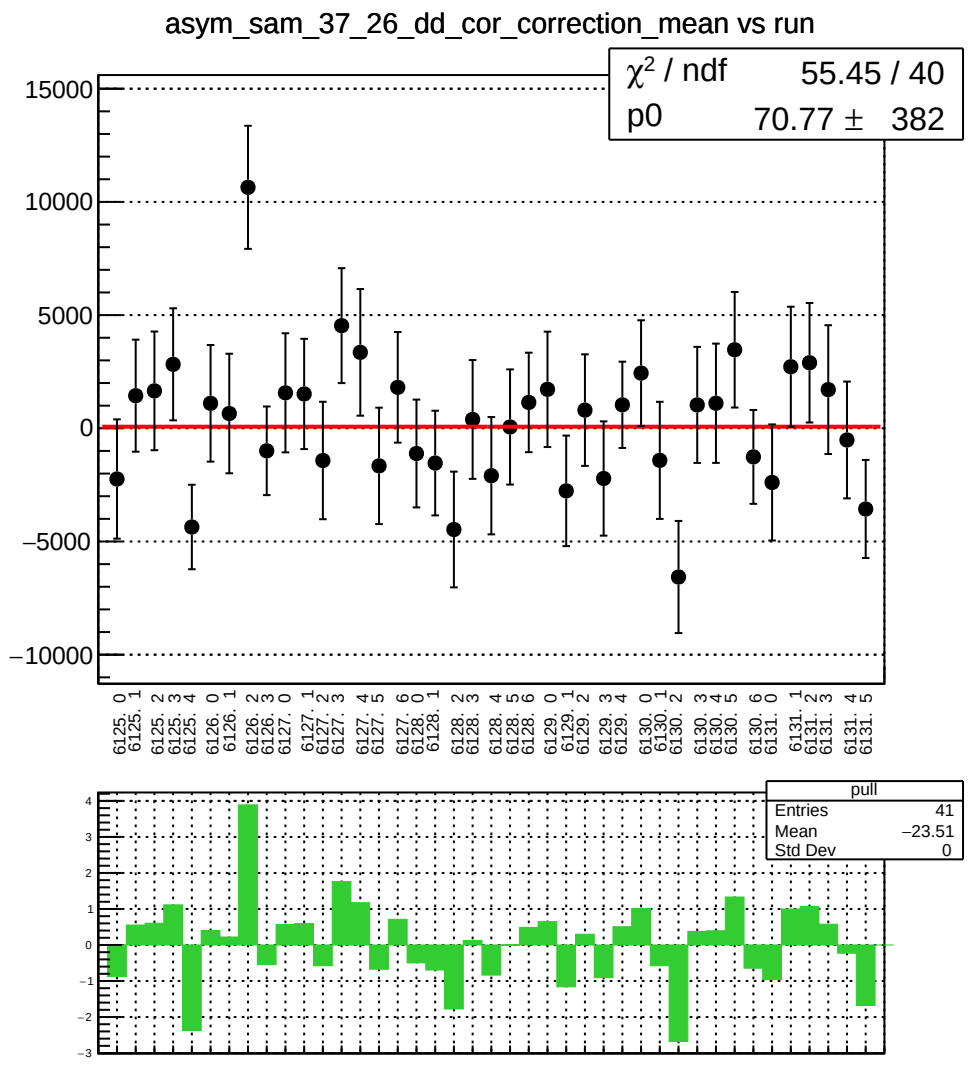

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 55.45 / 40
p0 70.77 ± 382
15000
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −23.51
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.04204
Std Dev 1.162
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

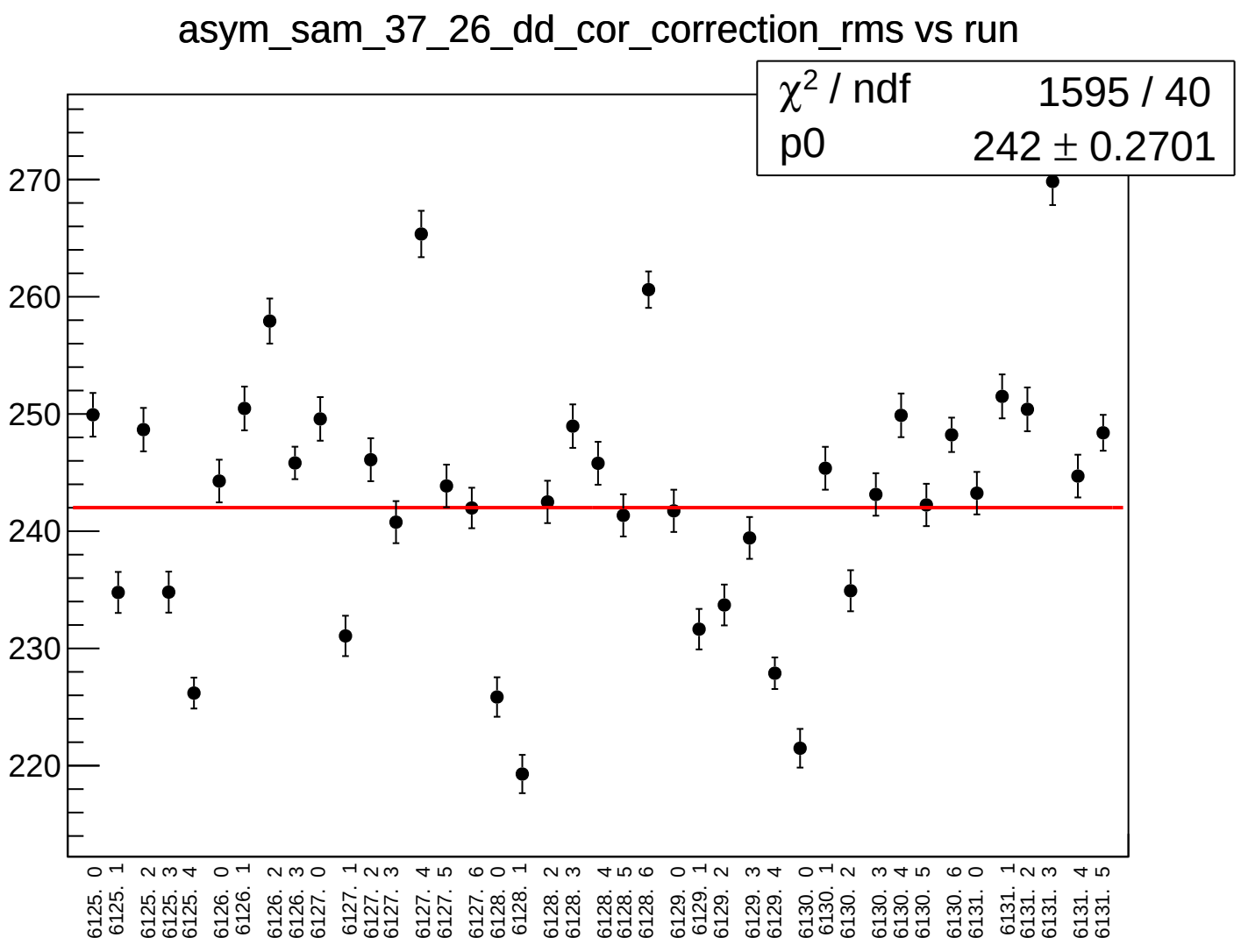

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 1595 / 40
p0 242 ± 0.2701
270
260
250
240
230
220
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

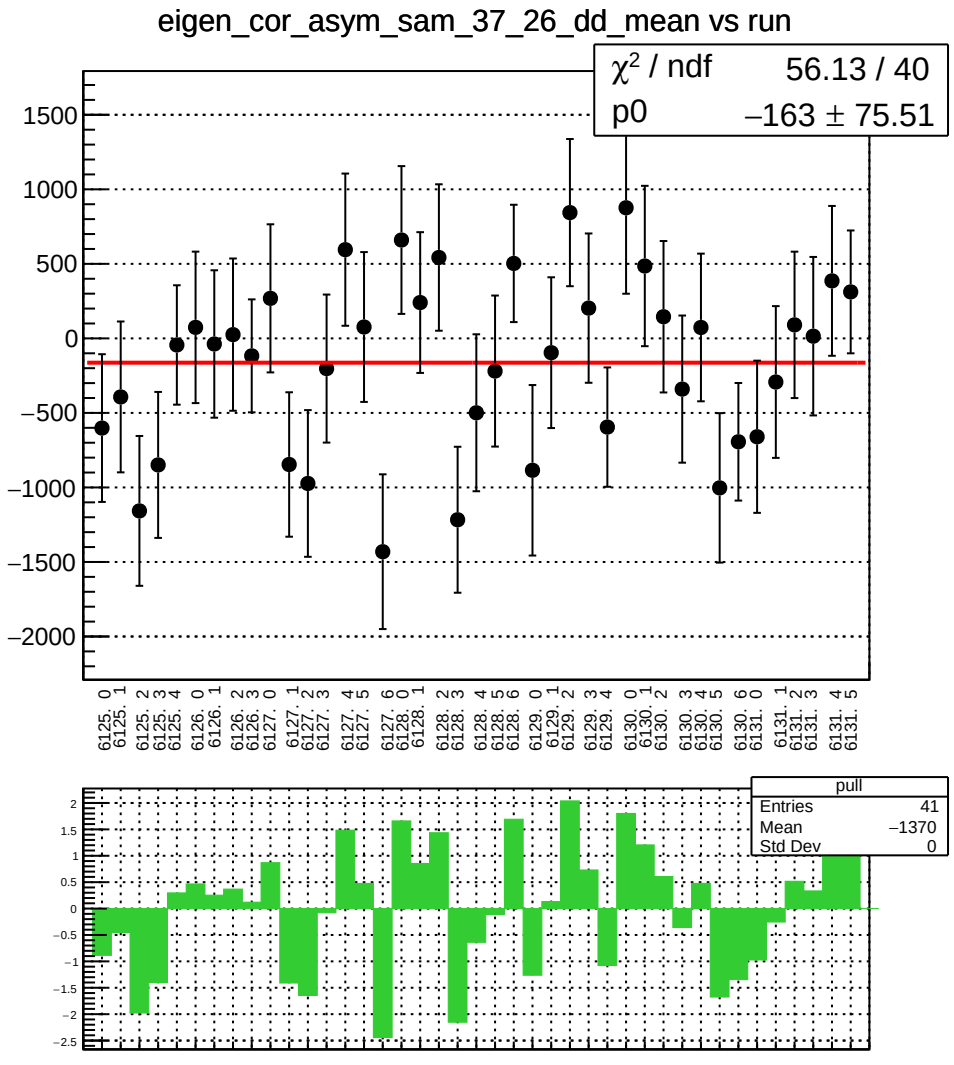

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 56.13 / 40
p0 −163 ± 75.51
1500
1000
500
0
−500
−1000
−1500
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1370
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

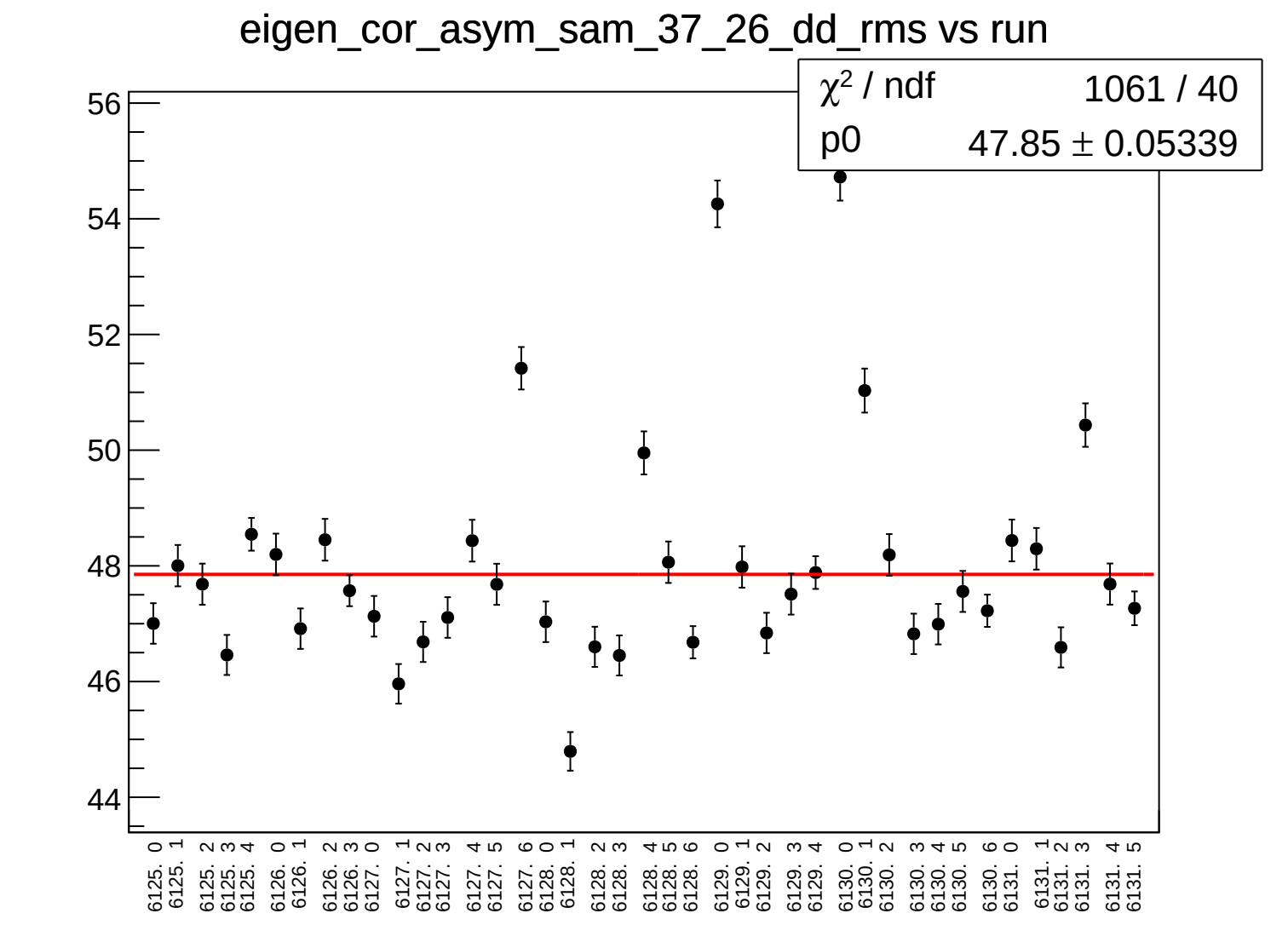

pull1D
Entries 41
Mean −0.001976
Std Dev 1.17
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1061 / 40
p0 47.85 ± 0.05339
56
54
52
50
48
46
44
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 55.45 / 40
p0 70.77 ± 382
15000
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −23.51
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.04204
Std Dev 1.162
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 1595 / 40
p0 242 ± 0.2701
270
260
250
240
230
220
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 56.13 / 40
p0 −163 ± 75.51
1500
1000
500
0
−500
−1000
−1500
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1370
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean −0.001976
Std Dev 1.17
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1061 / 40
p0 47.85 ± 0.05339
56
54
52
50
48
46
44
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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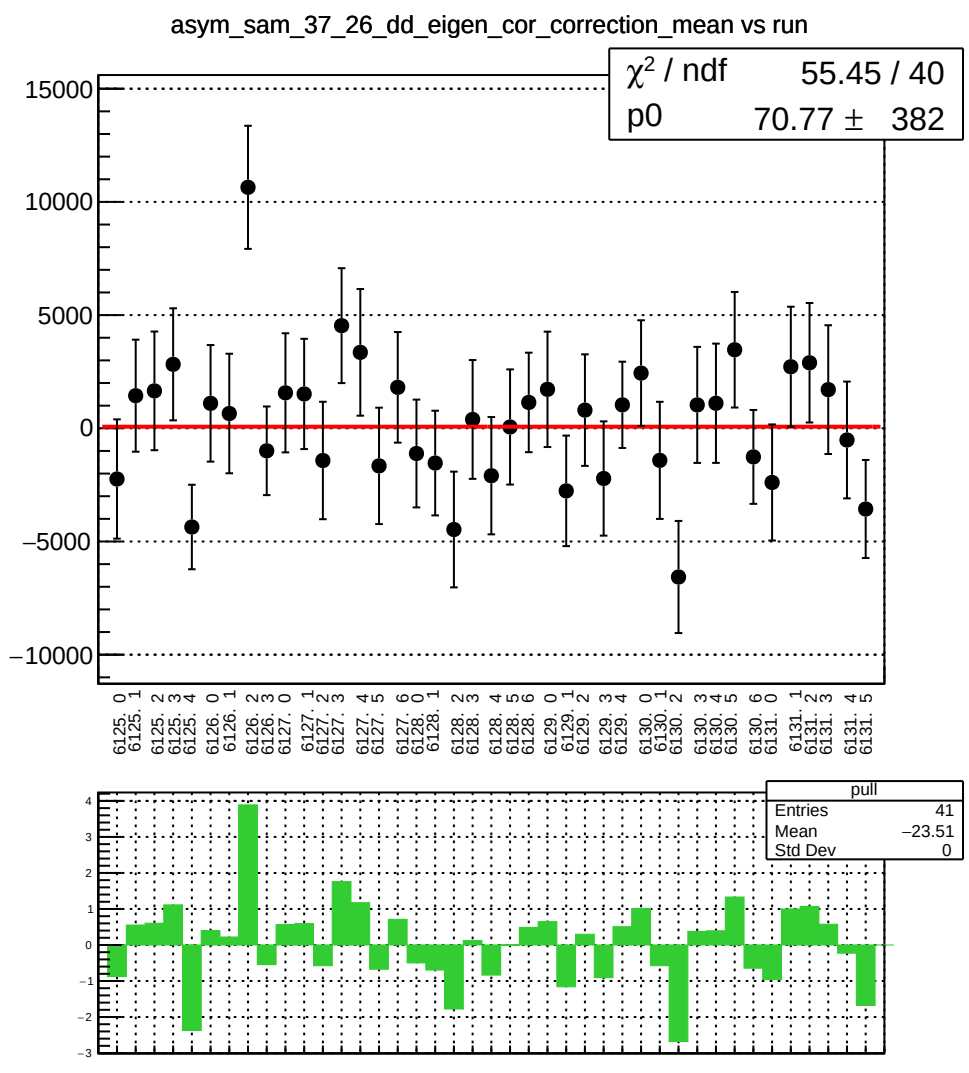
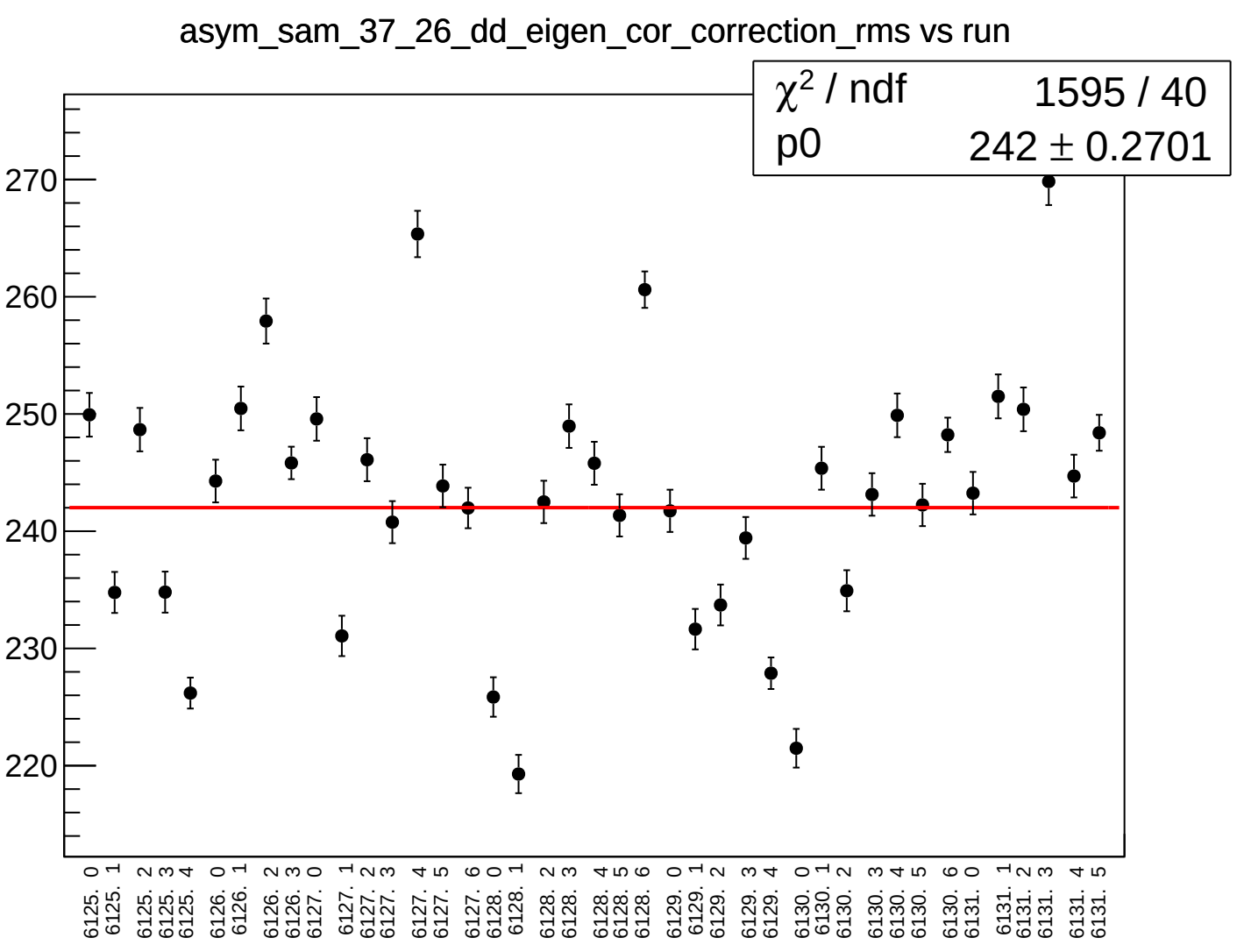
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 55.45 / 40
p0 70.77 ± 382
15000
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −23.51
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.04204
Std Dev 1.162
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 1595 / 40
p0 242 ± 0.2701
270
260
250
240
230
220
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
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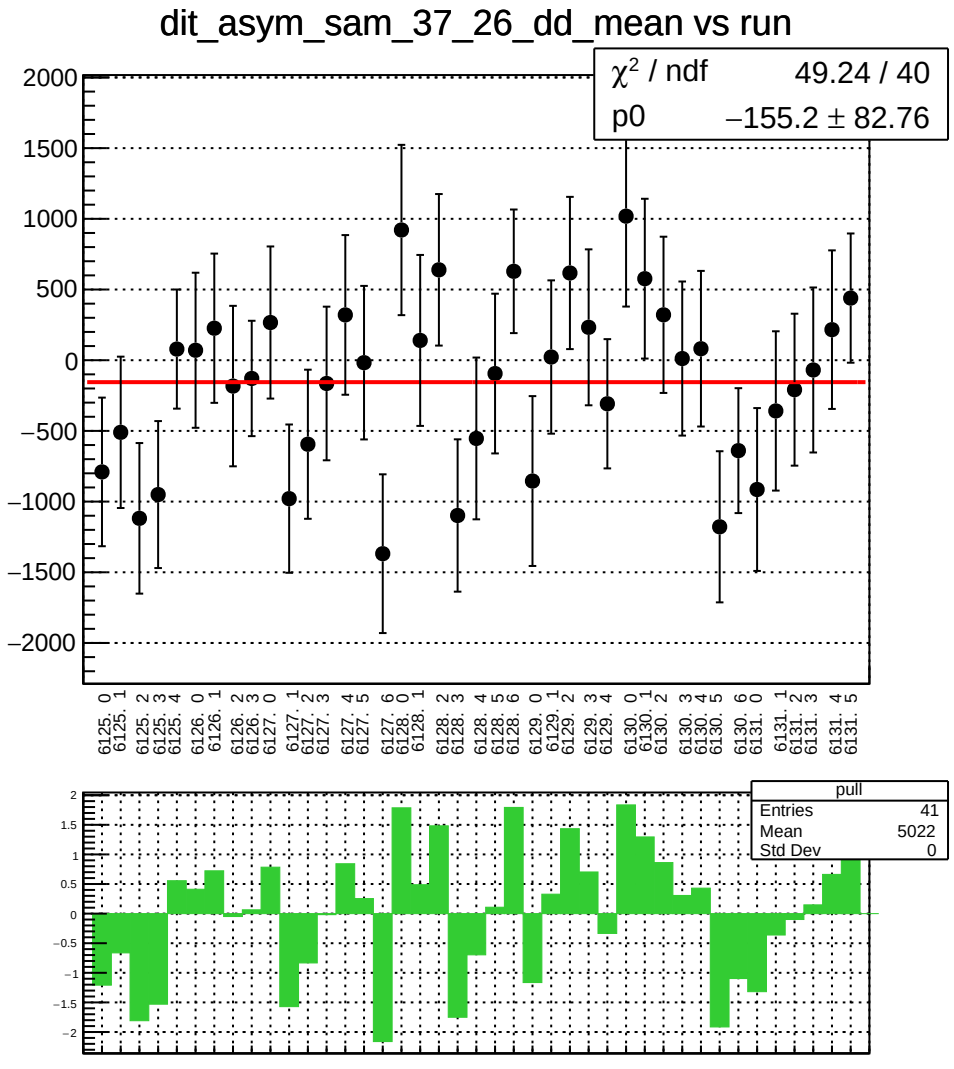
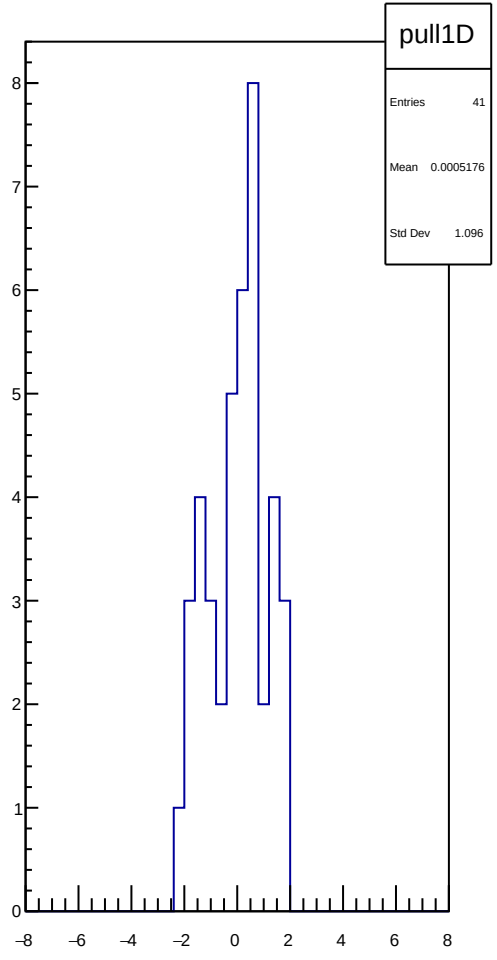
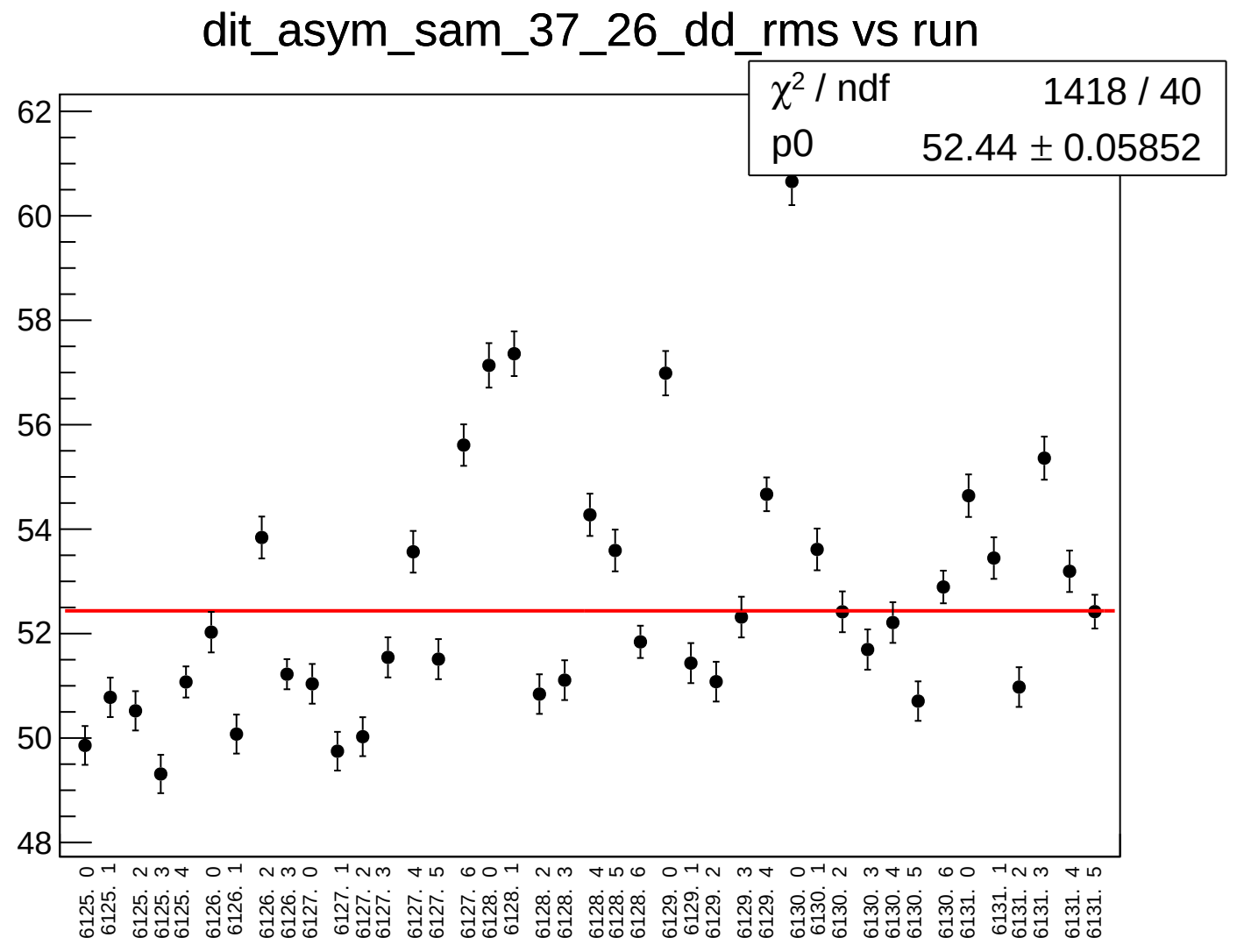
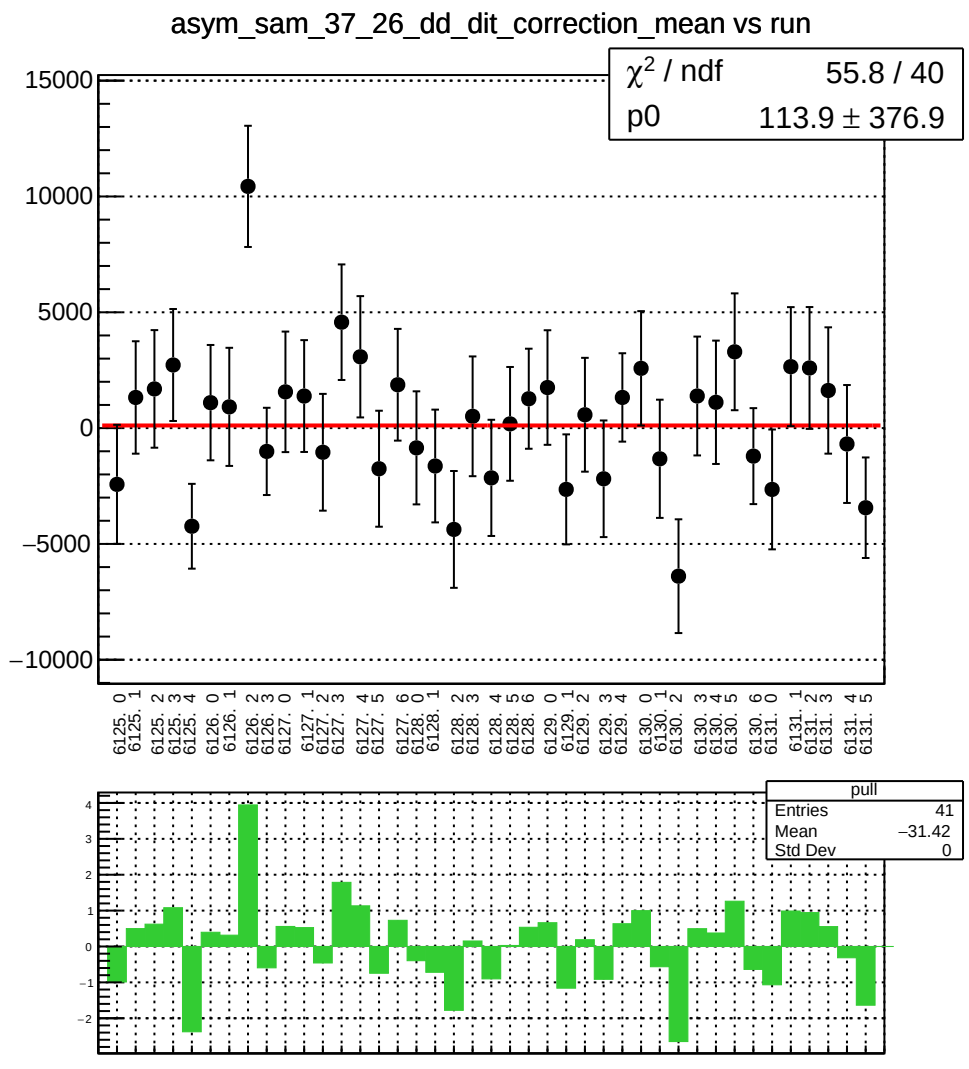
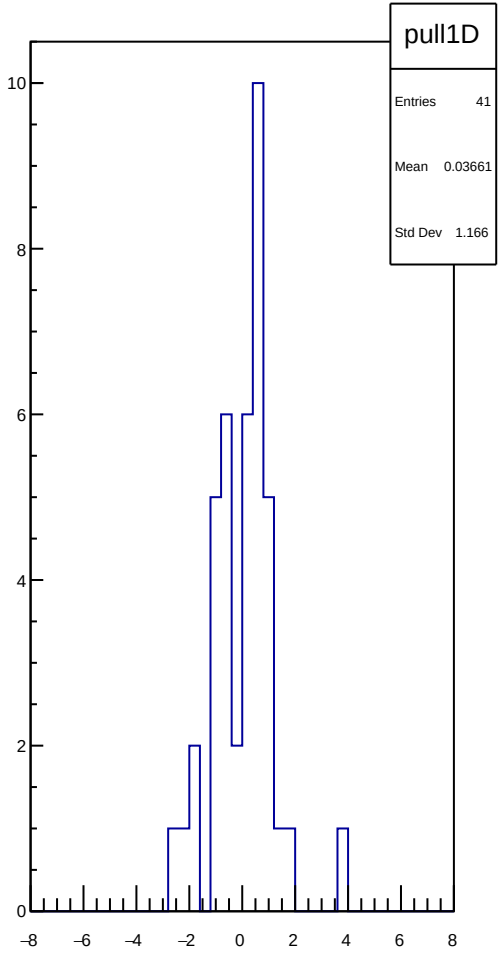
6131. 4
6131. 5

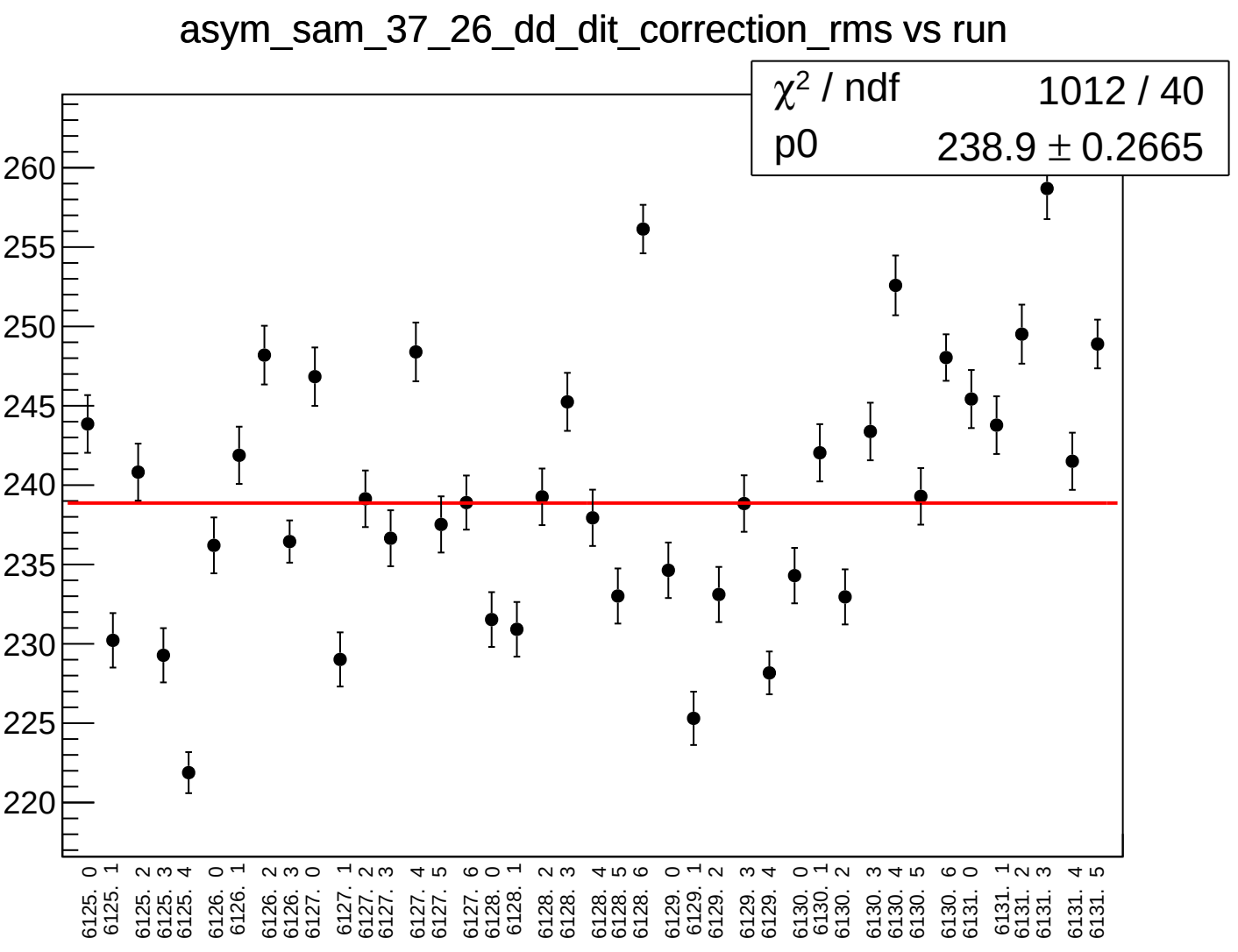

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 49.24 / 40
p0 −155.2 ± 82.76
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 5022
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.0005176
Std Dev 1.096
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1418 / 40
p0 52.44 ± 0.05852
62
60
58
56
54
52
50
48
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 55.8 / 40
p0 113.9 ± 376.9
15000
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −31.42
Std Dev 0
4
3
2
1
0
−1
−2


pull1D
Entries 41
Mean 0.03661
Std Dev 1.166
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 1012 / 40
p0 238.9 ± 0.2665
260
255
250
245
240
235
230
225
220
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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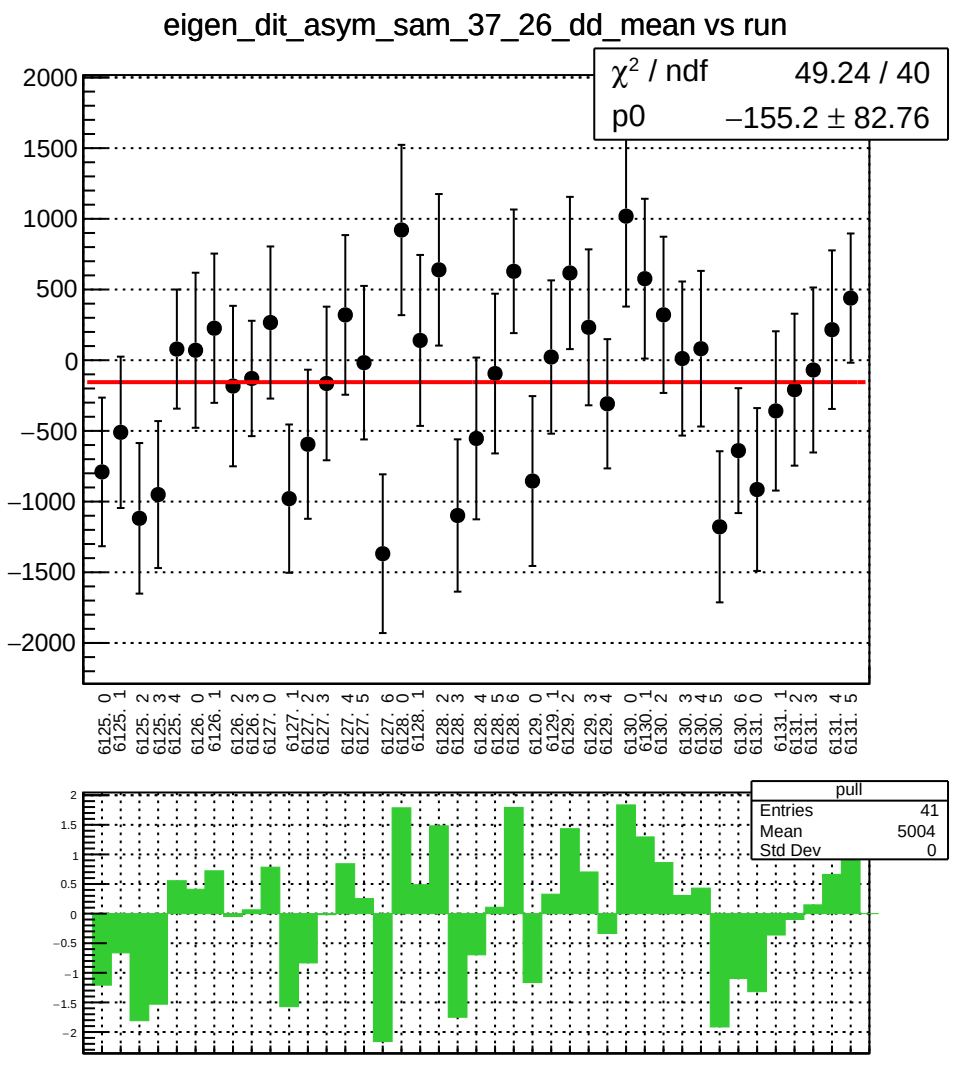
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 49.24 / 40
p0 −155.2 ± 82.76
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
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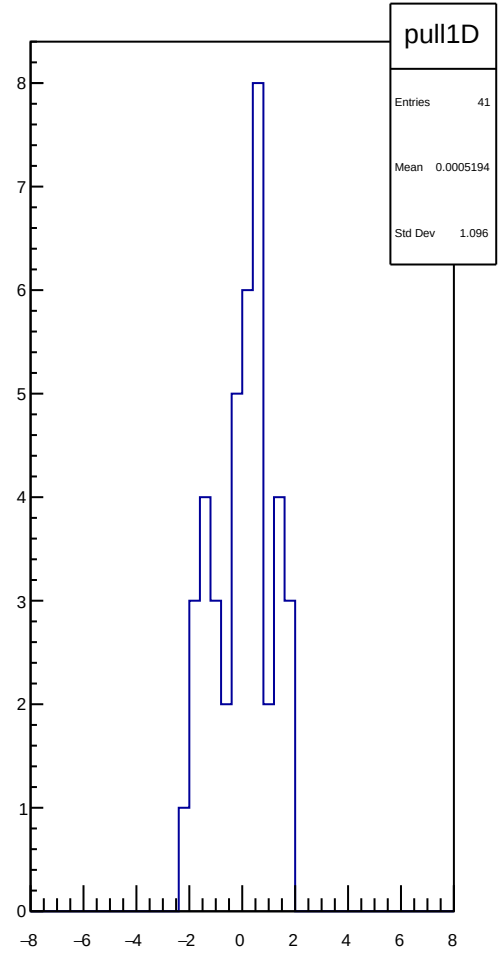
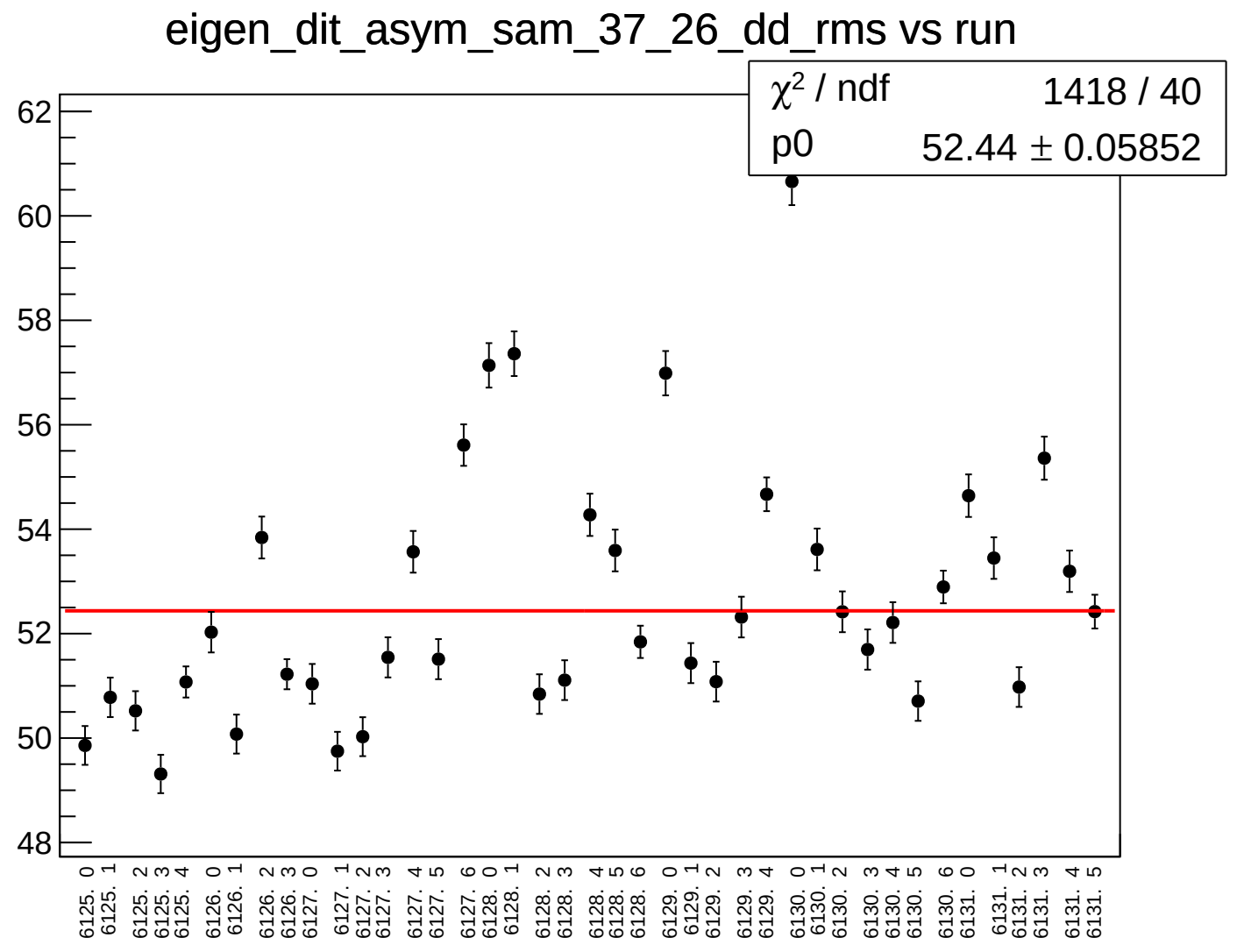
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 5004
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.0005194
Std Dev 1.096
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1418 / 40
p0 52.44 ± 0.05852
62
60
58
56
54
52
50
48
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
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6128. 6
6129. 0
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6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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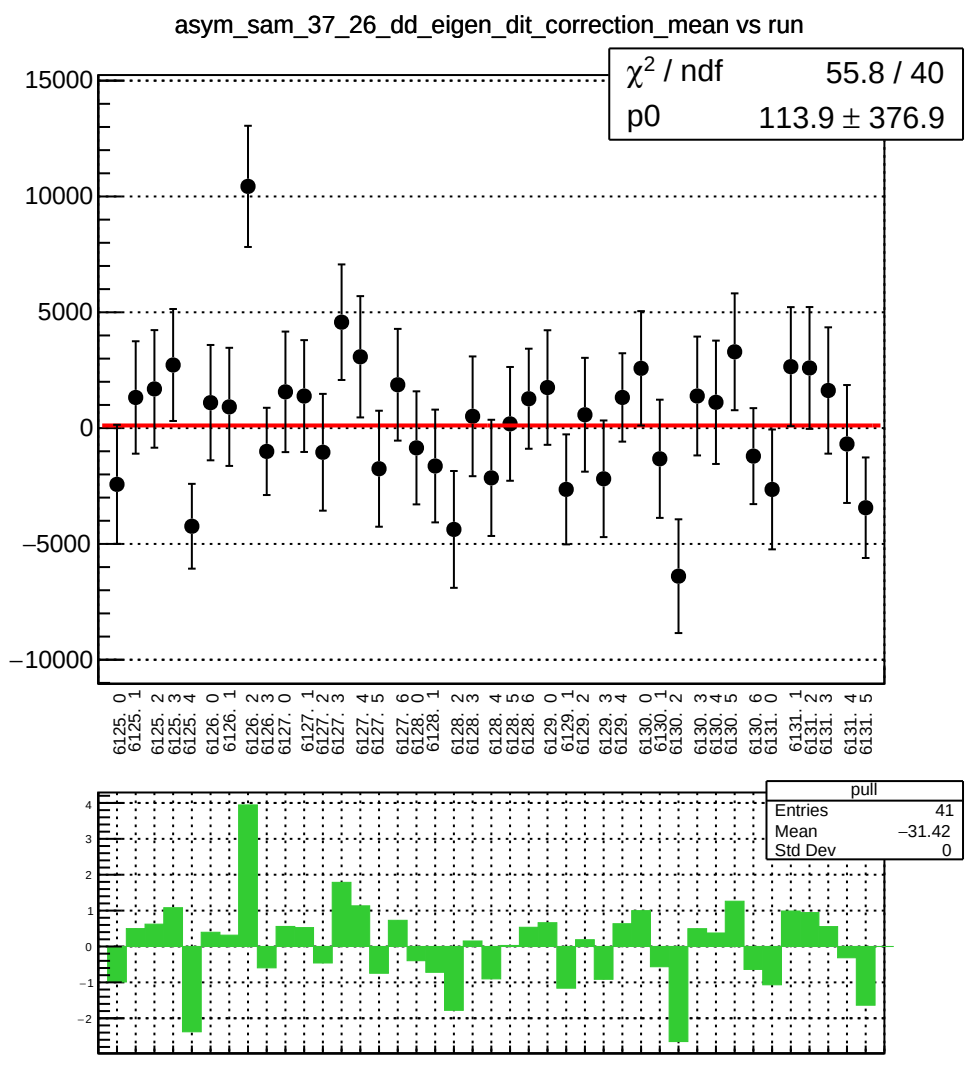
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 55.8 / 40
p0 113.9 ± 376.9
15000
10000
5000
0
−5000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
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6128. 0
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6128. 2
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6128. 4
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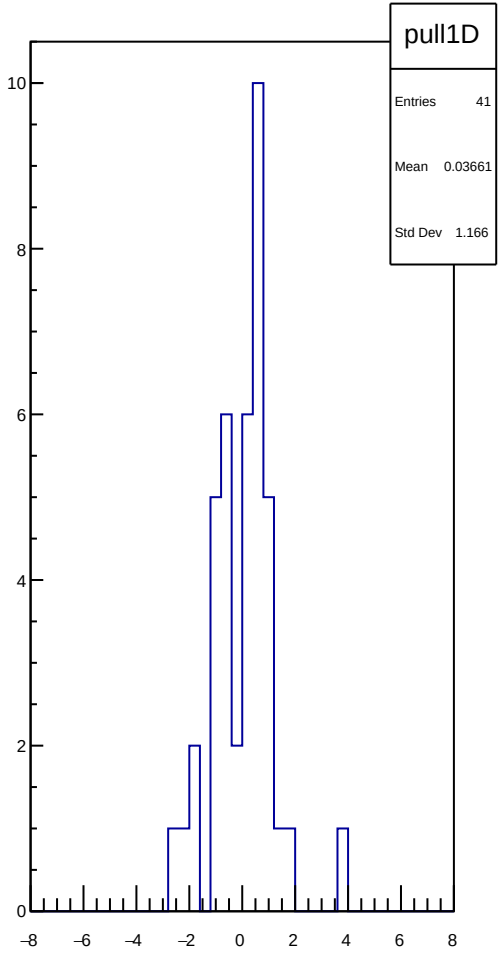
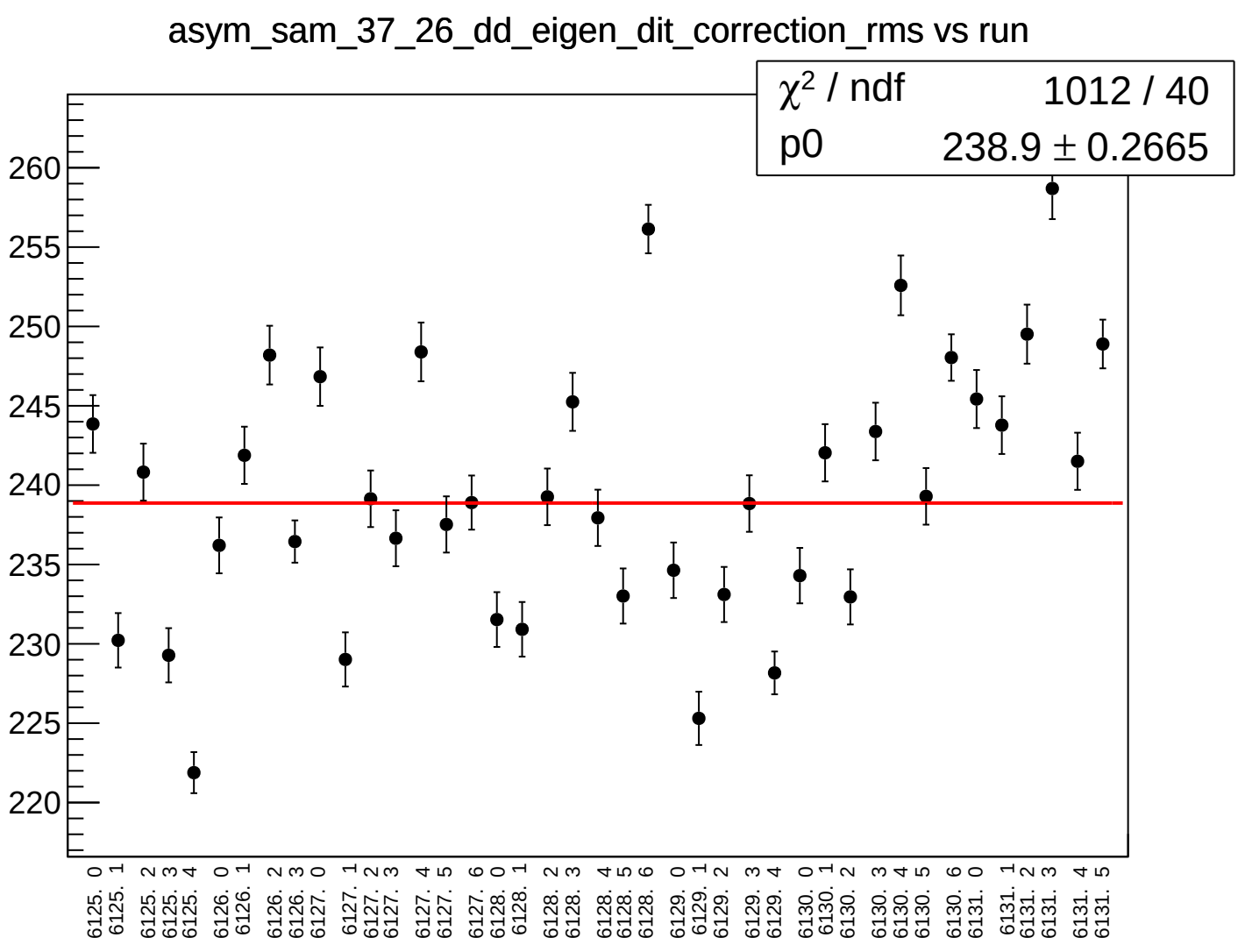
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −31.42
Std Dev 0
4
3
2
1
0
−1
−2


pull1D
Entries 41
Mean 0.03661
Std Dev 1.166
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1012 / 40
p0 238.9 ± 0.2665
260
255
250
245
240
235
230
225
220
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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6130. 5
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6131. 0
6131. 1
6131. 2
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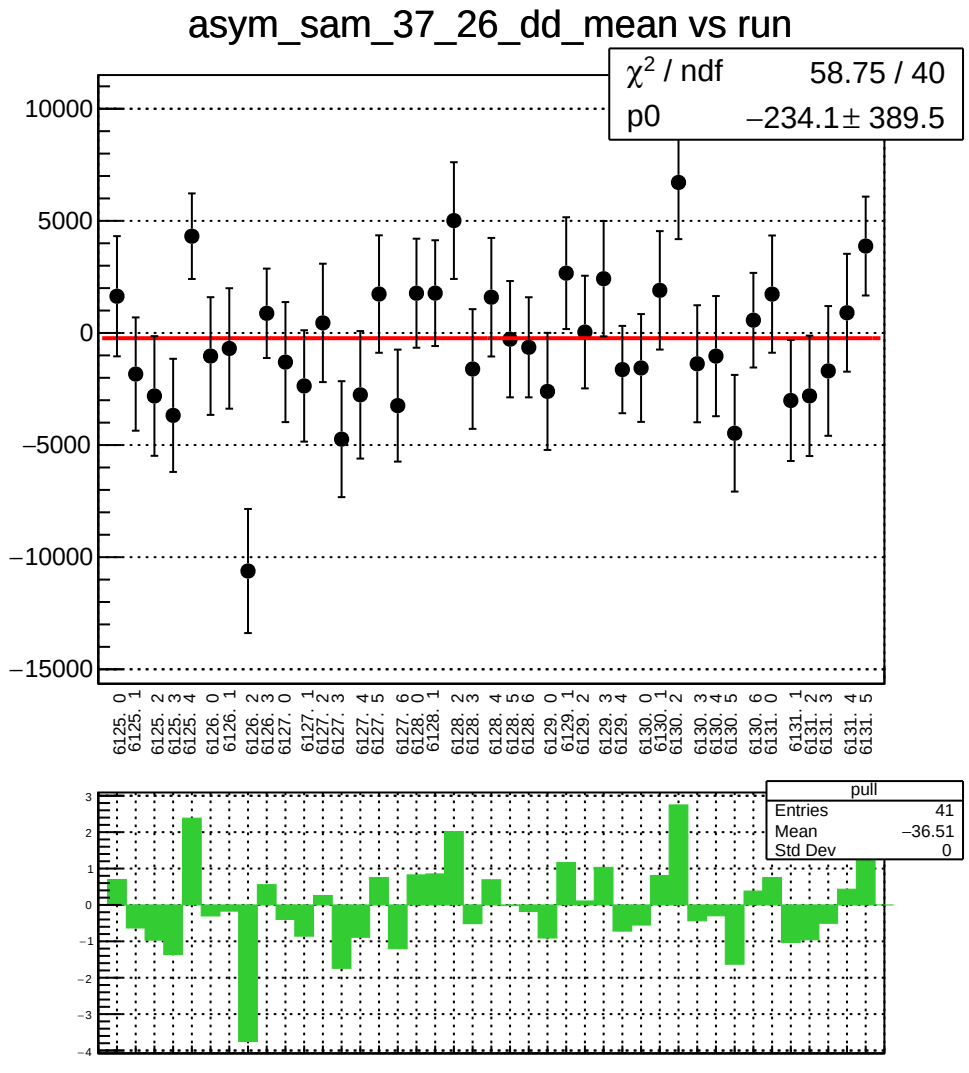
6131. 4
6131. 5


asym_sam_37_26_dd_mean vs run
χ² / ndf 58.75 / 40
p0 −234.1± 389.5
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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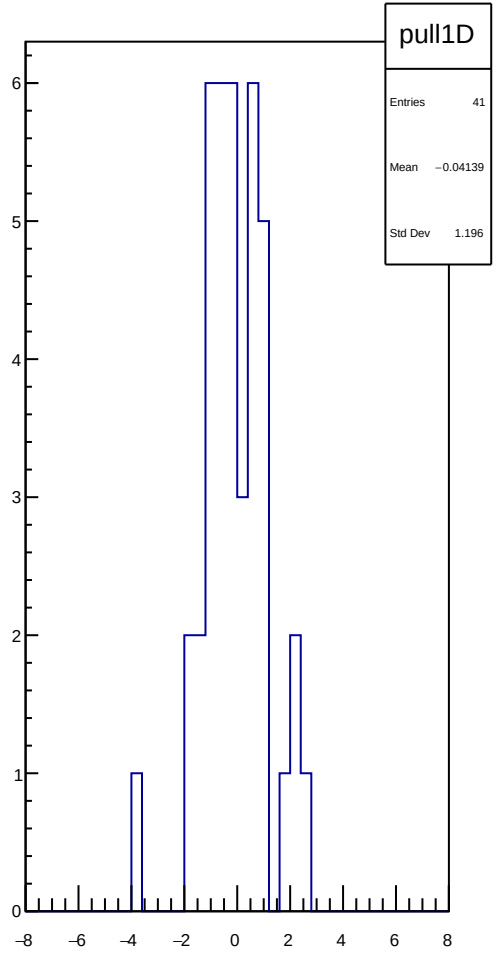
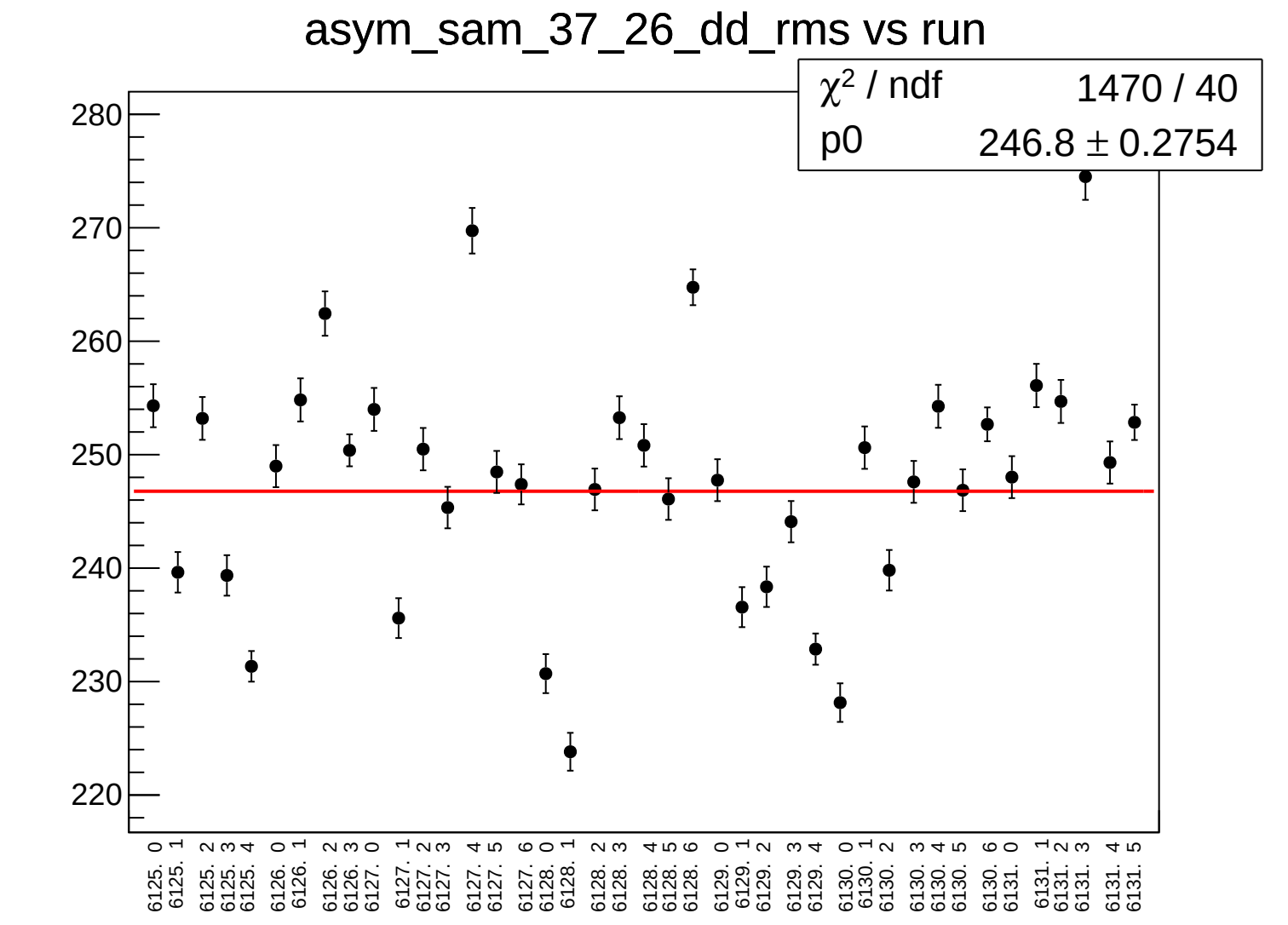
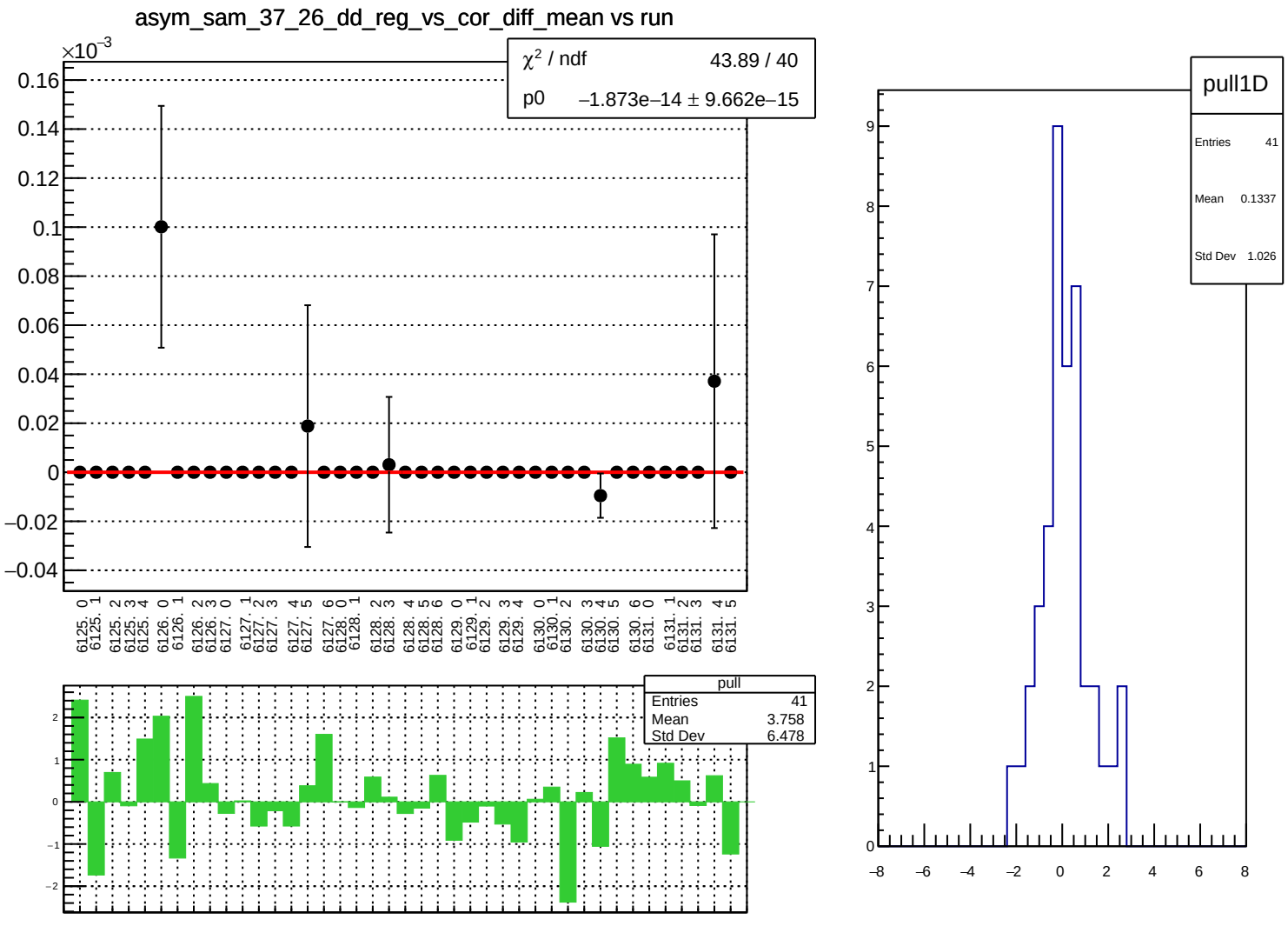
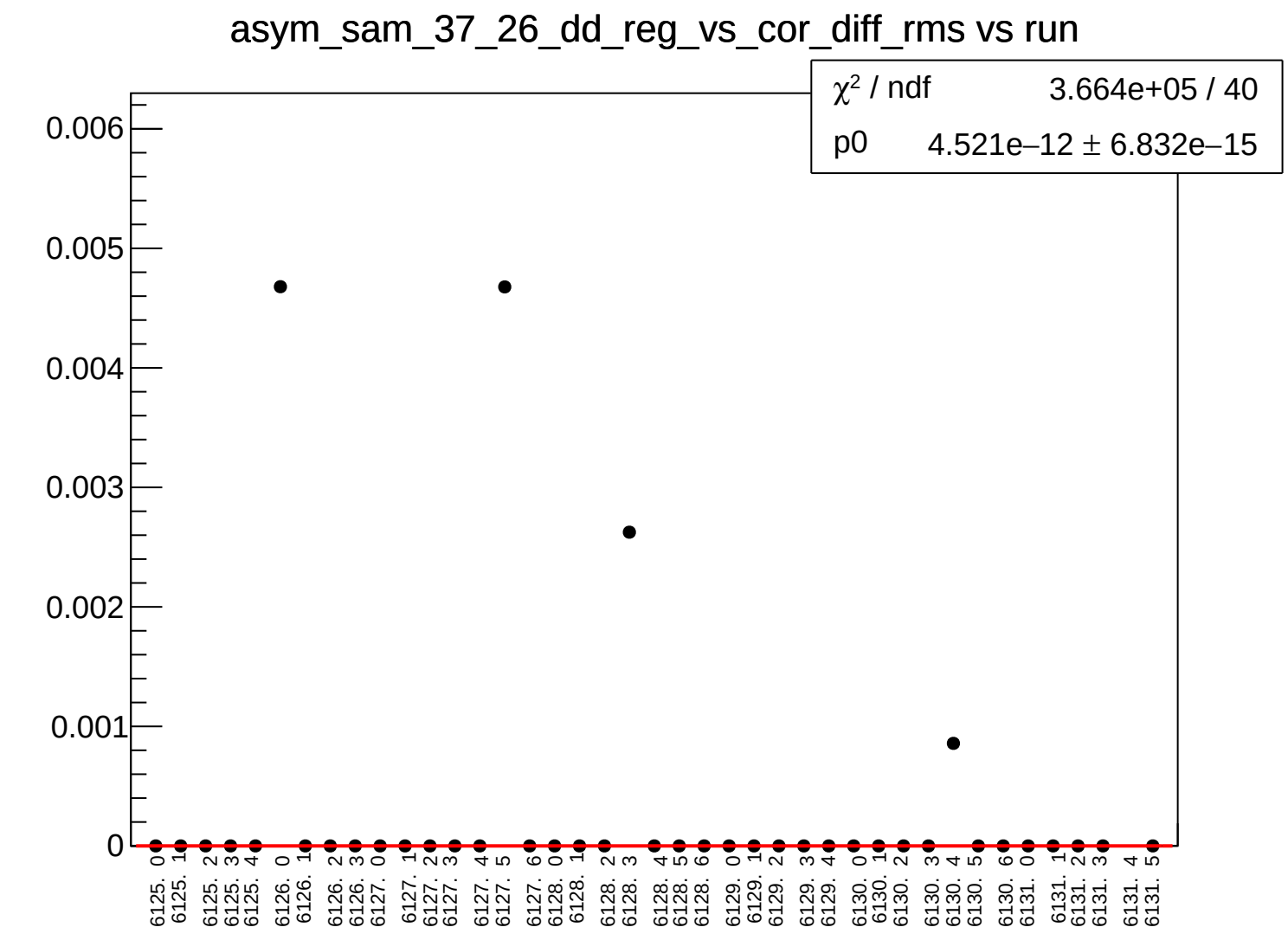
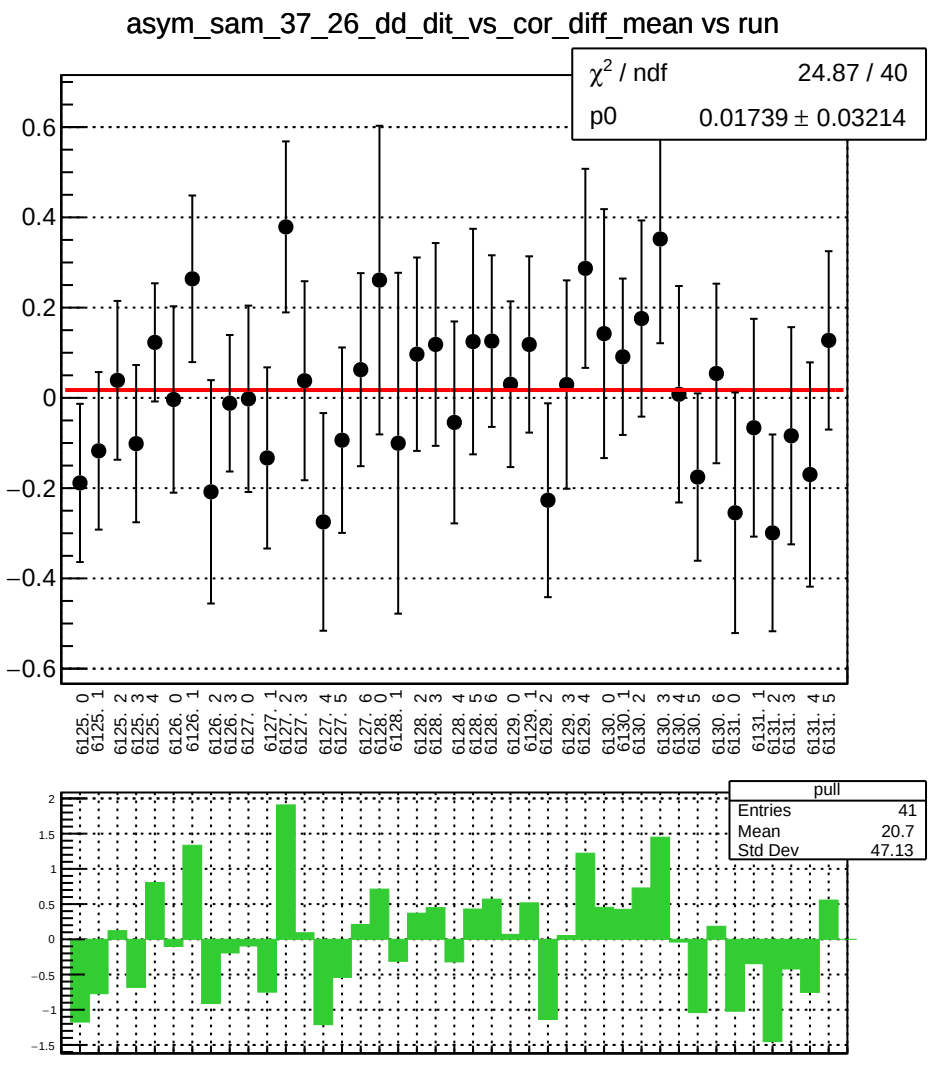
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −36.51
Std Dev 0
3
2
1
0
−1
−2
−3
−4

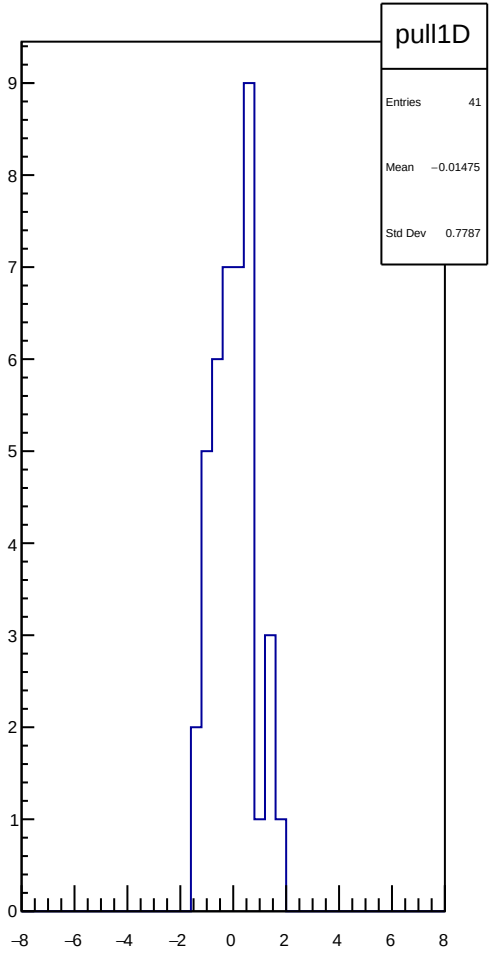

pull1D
Entries 41
Mean −0.04139
Std Dev 1.196
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

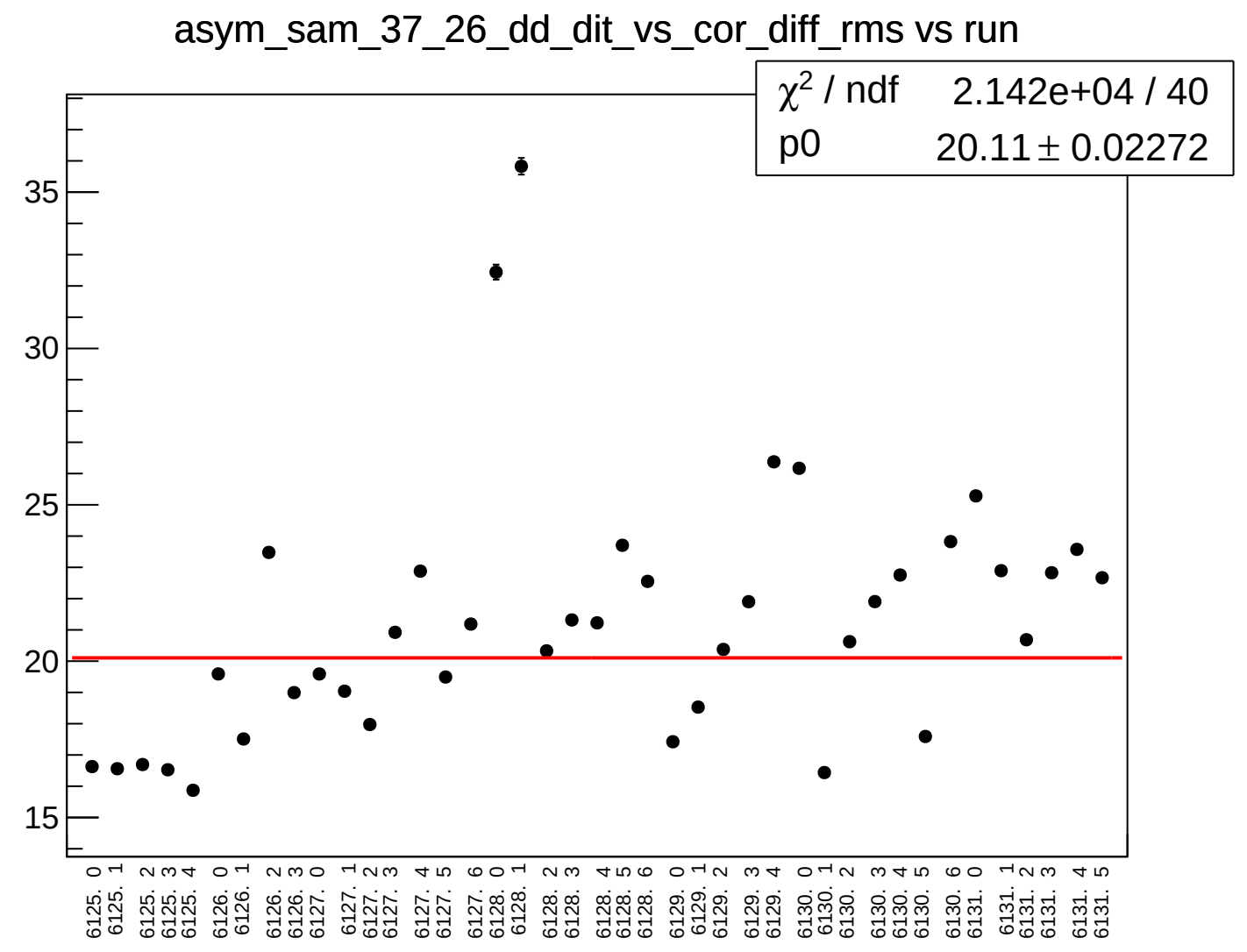

asym_sam_37_26_dd_rms vs run
χ² / ndf 1470 / 40
p0 246.8 ± 0.2754
280
270
260
250
240
230
220
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

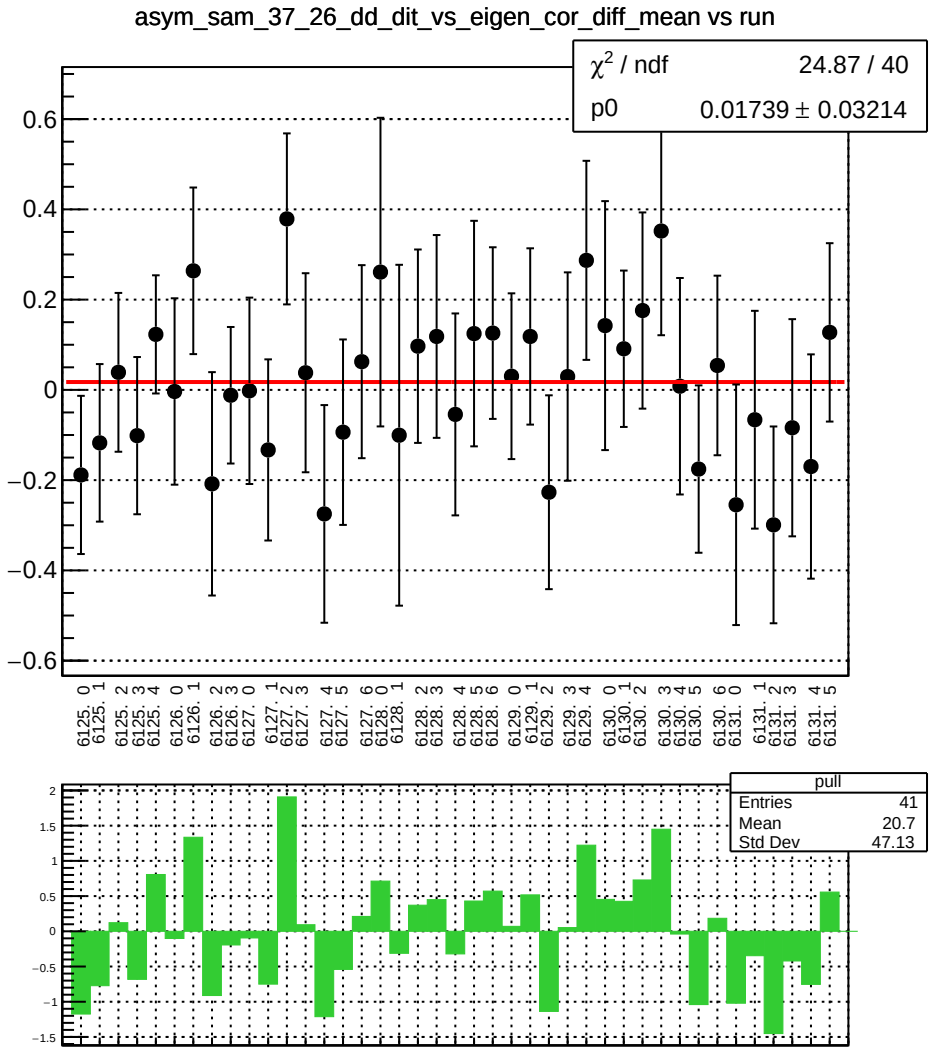

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 43.89 / 40
p0 −1.873e−14 ± 9.662e−15
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 3.758
Std Dev 6.478
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.1337
Std Dev 1.026
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

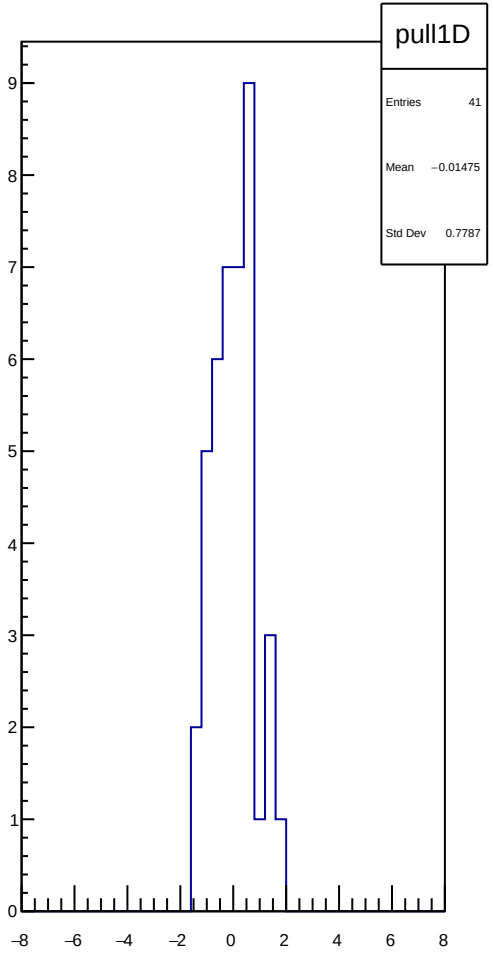

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.664e+05 / 40
p0 4.521e−12 ± 6.832e−15
0.006
0.005
0.004
0.003
0.002
0.001
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

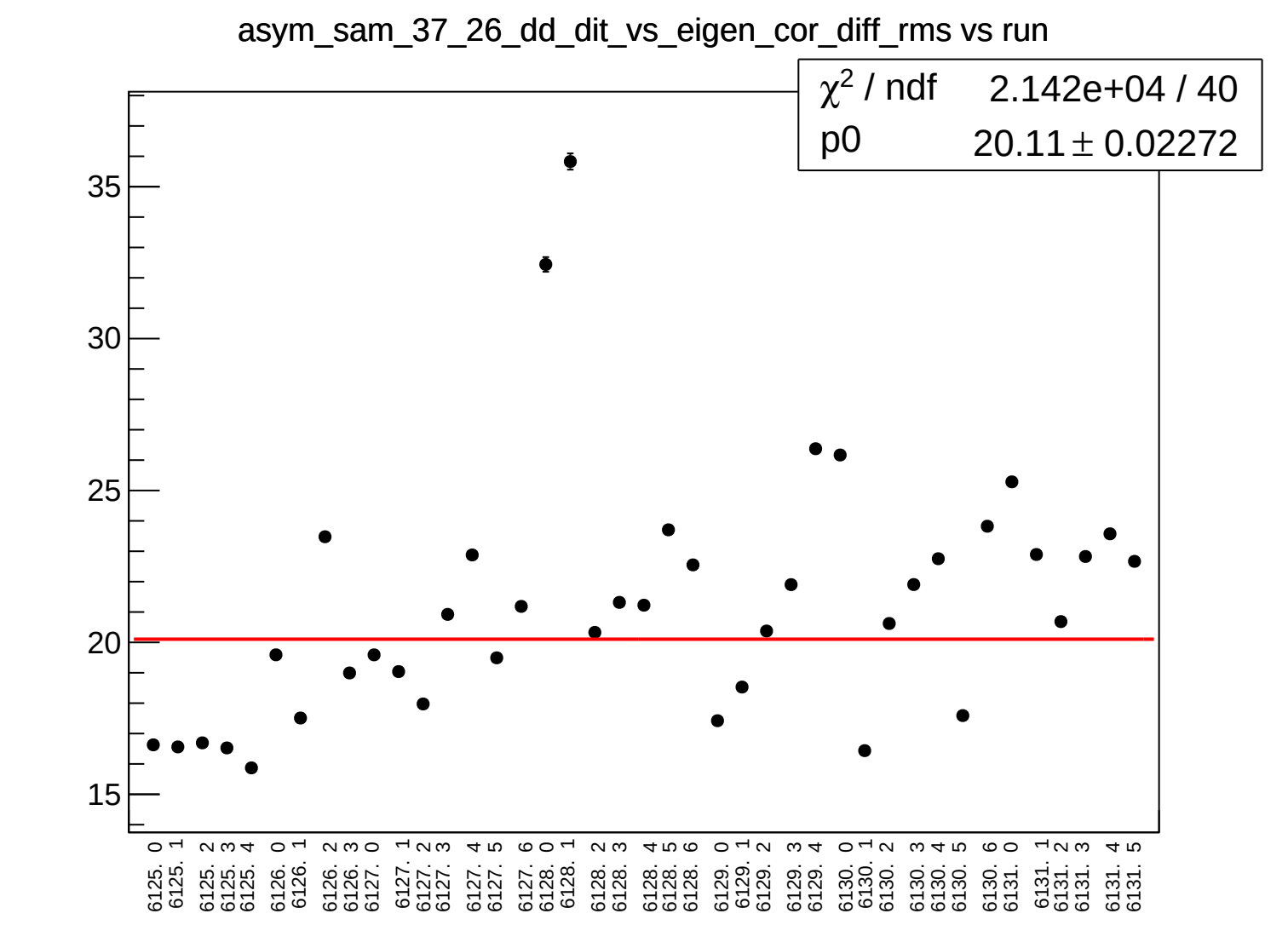

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 24.87 / 40
p0 0.01739 ± 0.03214
pull
Entries 41
Mean 20.7
Std Dev 47.13

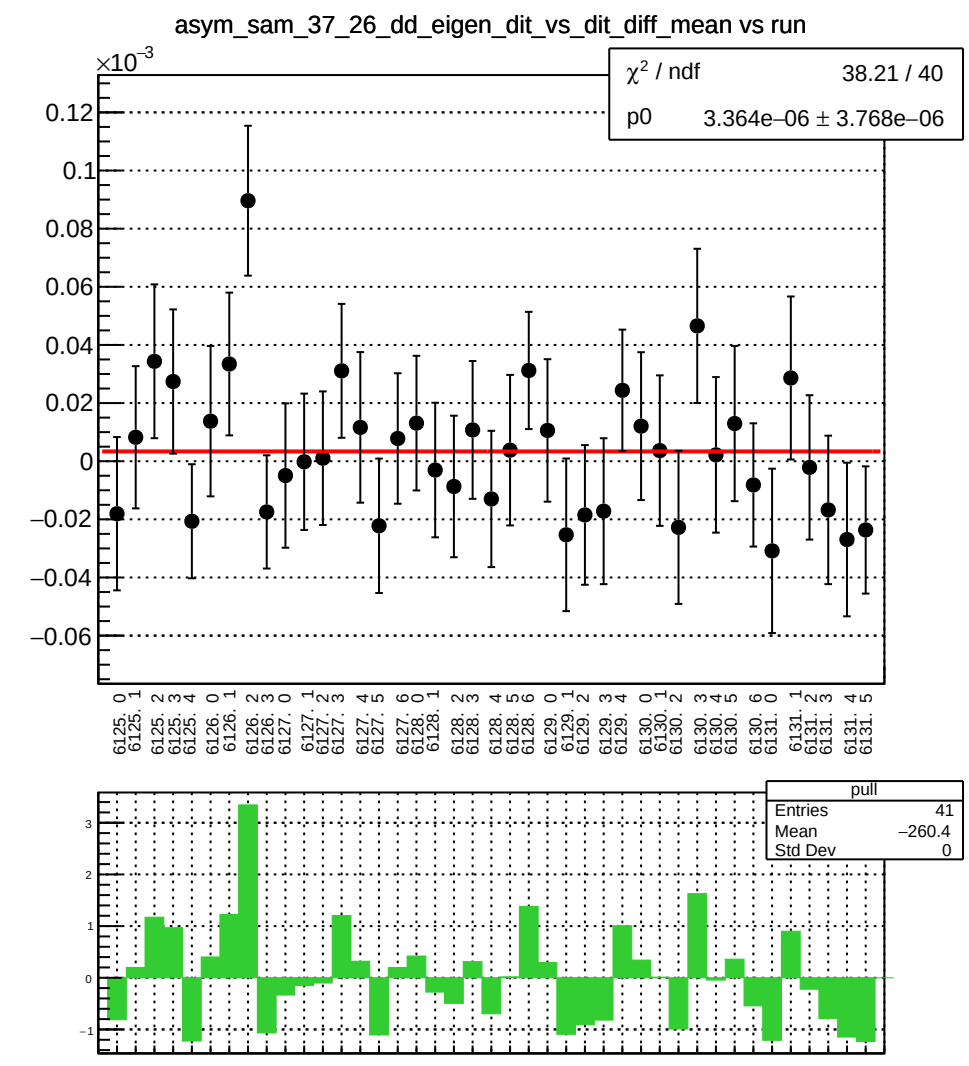

pull1D
Entries 41
Mean −0.01475
Std Dev 0.7787

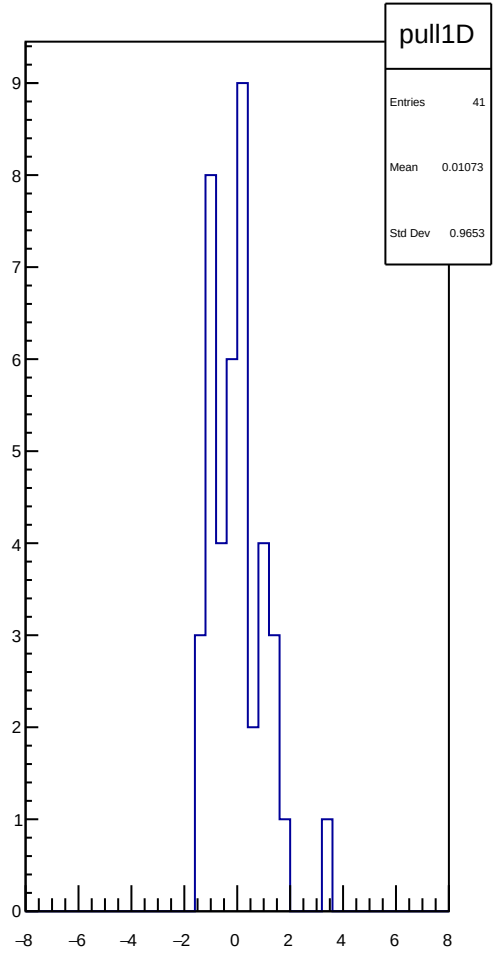

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.142e+04 / 40
p0 20.11 ± 0.02272
35
30
25
20
15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

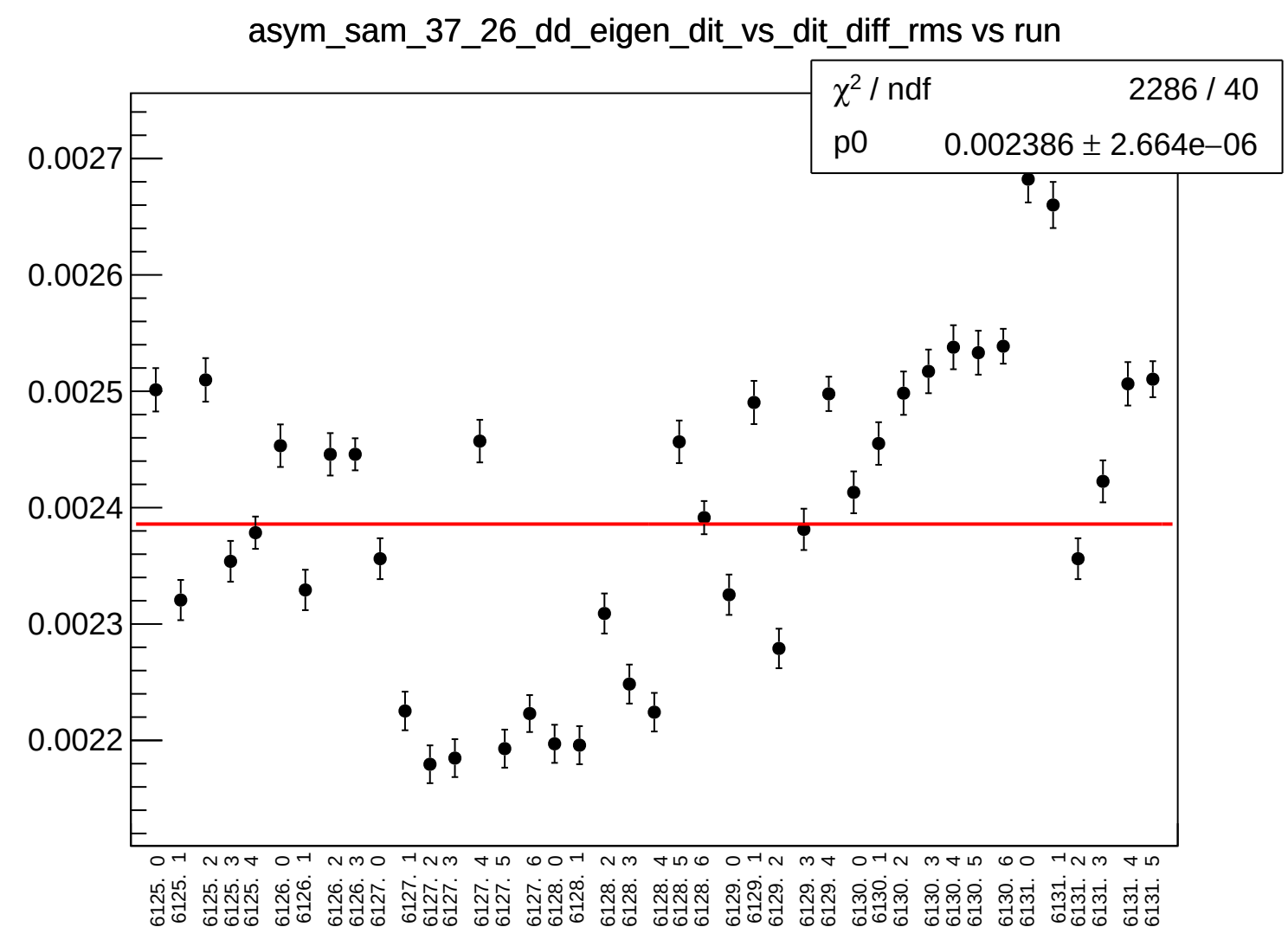

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.87 / 40
p0 0.01739 ± 0.03214
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 20.7
Std Dev 47.13
2
1.5
1
0.5
0
−0.5
−1
−1.5

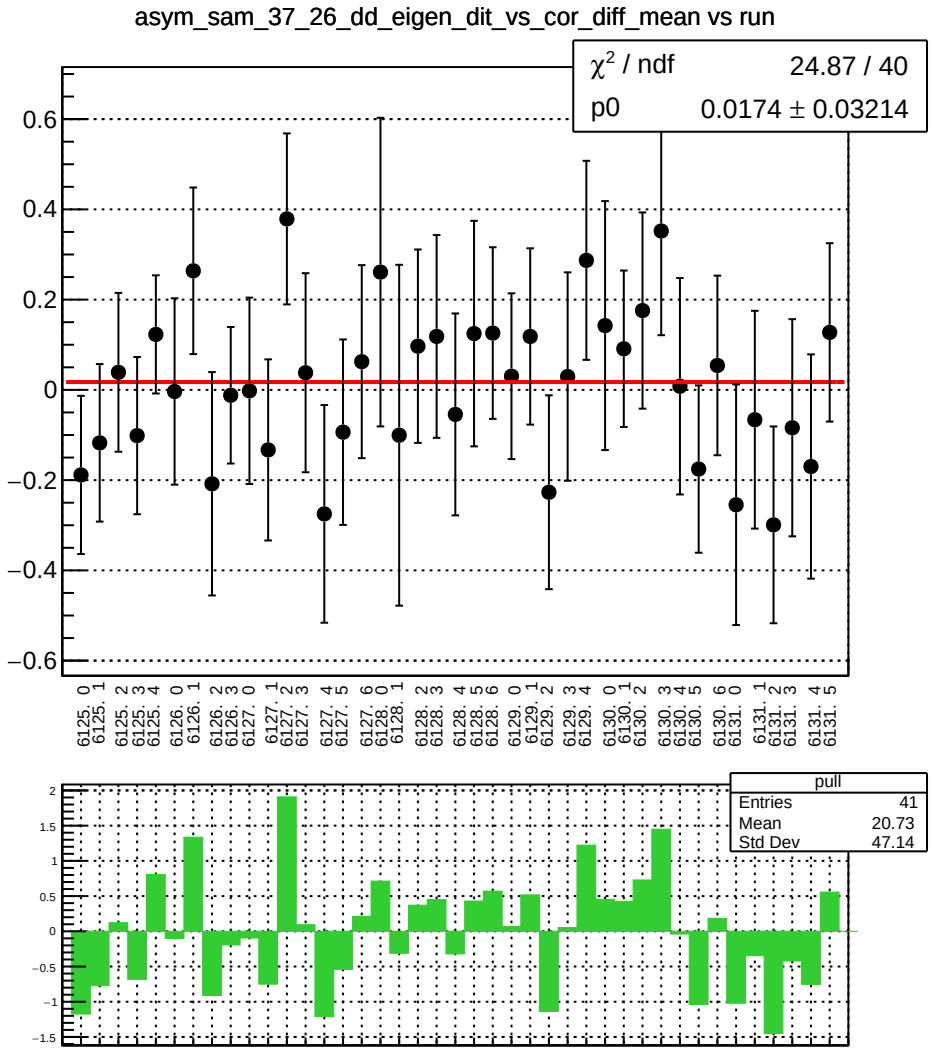

pull1D
Entries 41
Mean −0.01475
Std Dev 0.7787
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

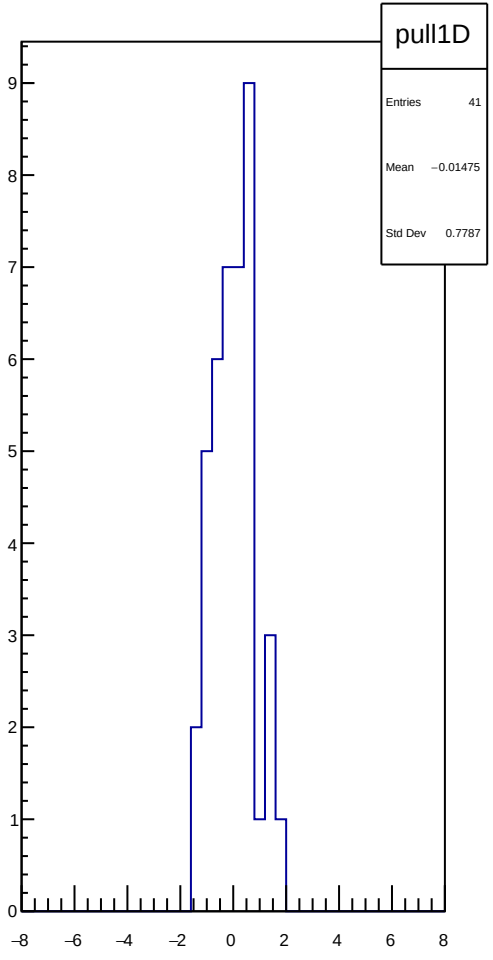

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.142e+04 / 40
p0 20.11 ± 0.02272
35
30
25
20
15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

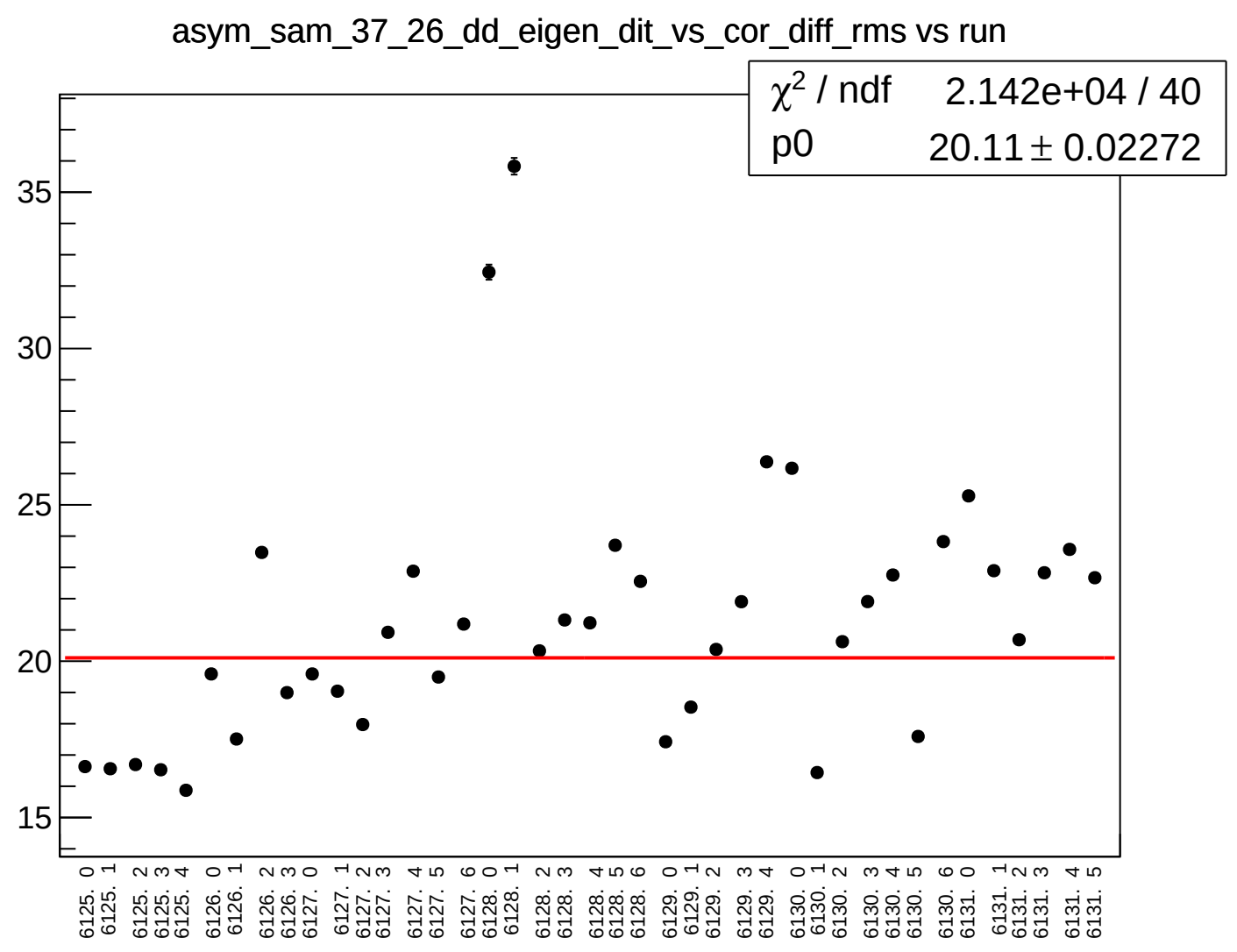

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 38.21 / 40
p0 3.364e−06 ± 3.768e−06
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −260.4
Std Dev 0
3
2
1
0
−1

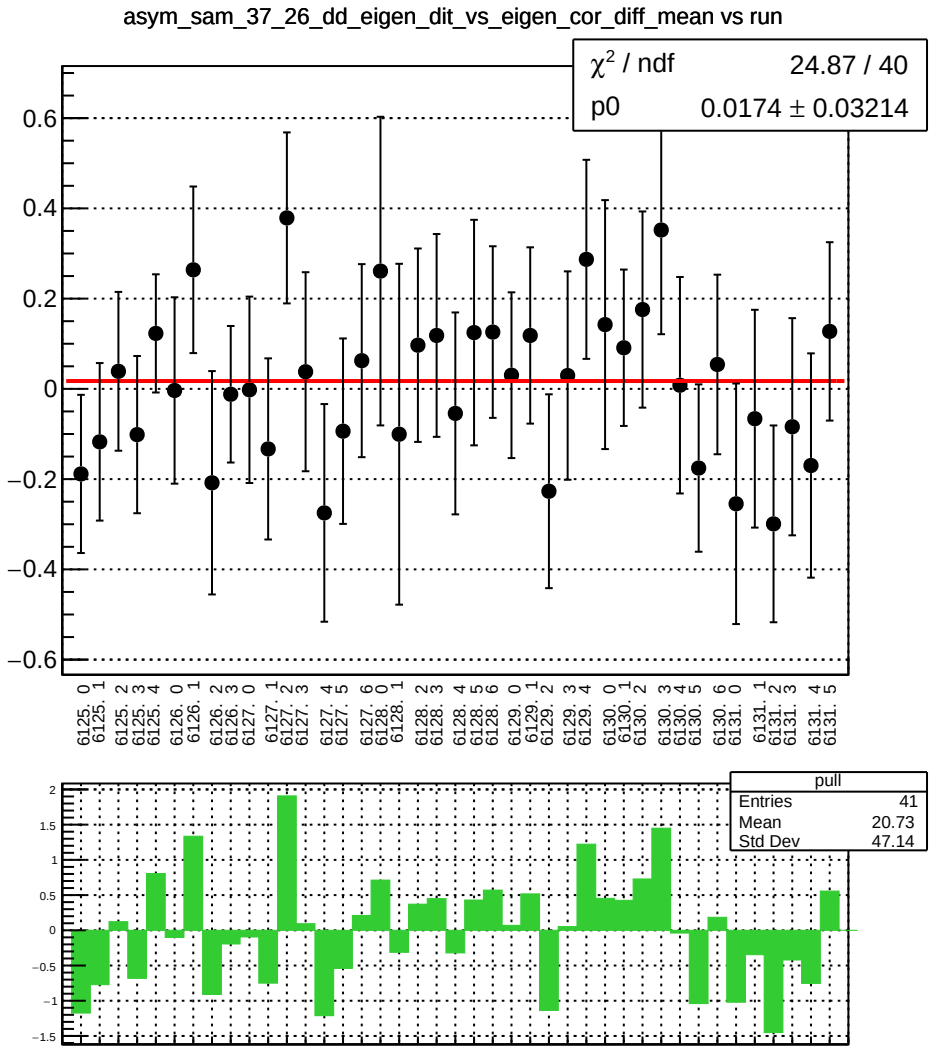

pull1D
Entries 41
Mean 0.01073
Std Dev 0.9653
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

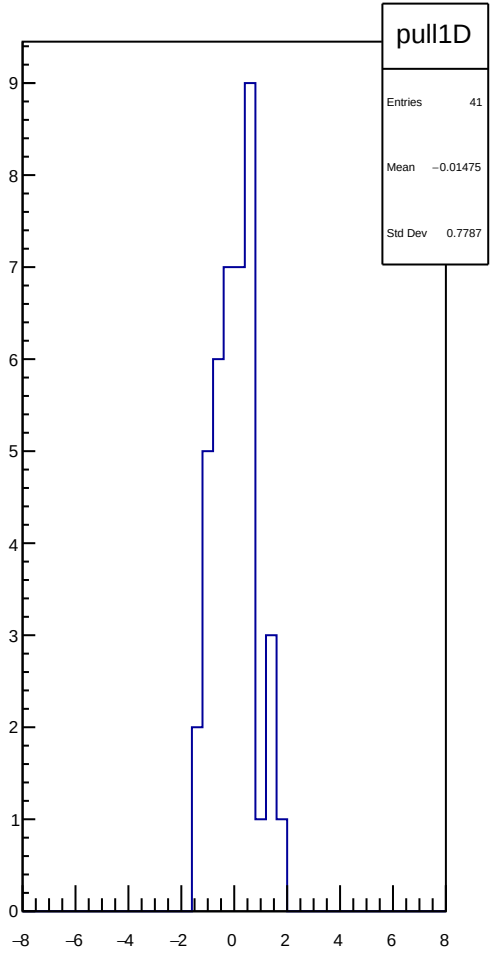

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2286 / 40
p0 0.002386 ± 2.664e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

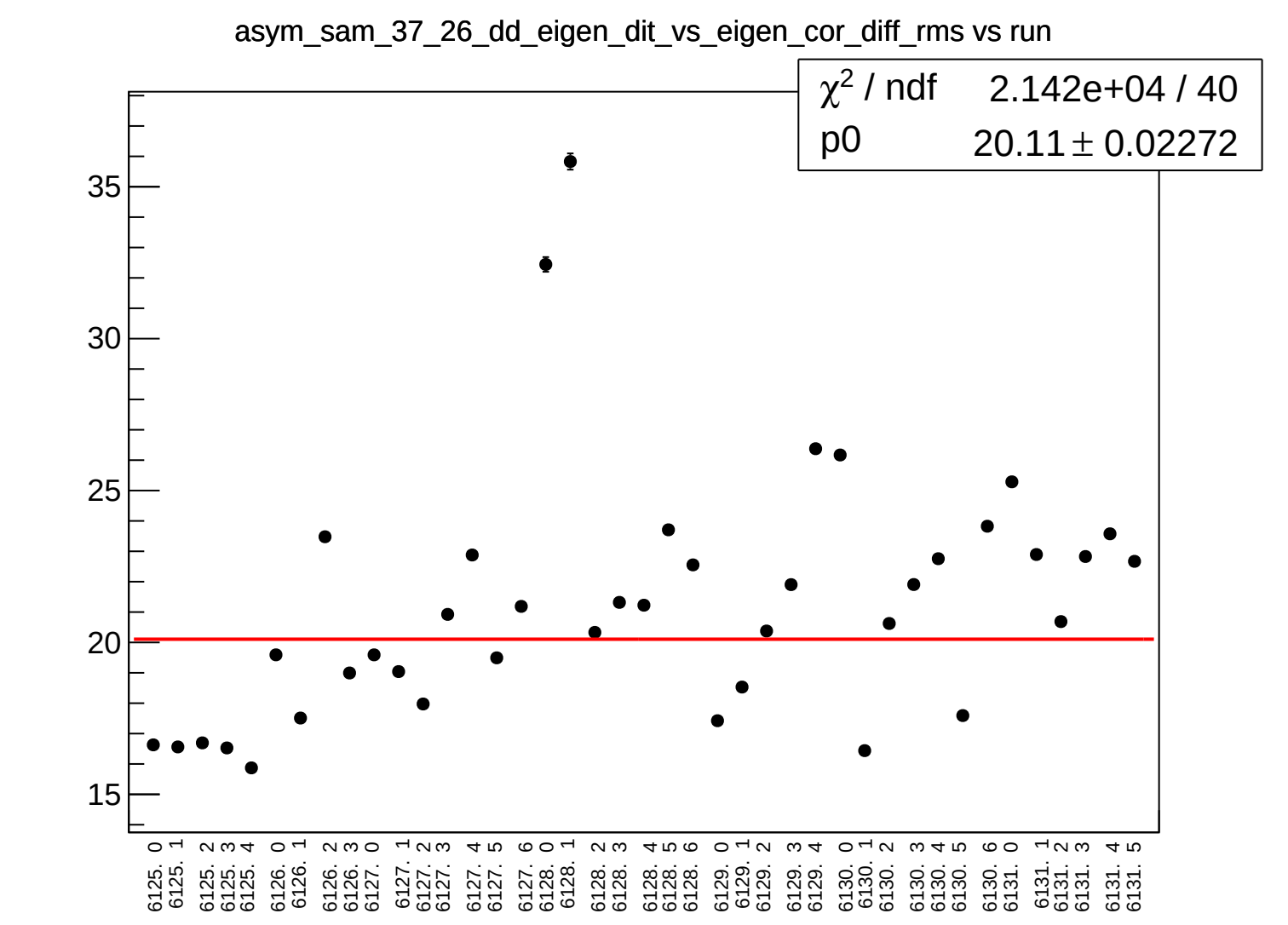

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 24.87 / 40
p0 0.0174 ± 0.03214
pull
Entries 41
Mean 20.73
Std Dev 47.14

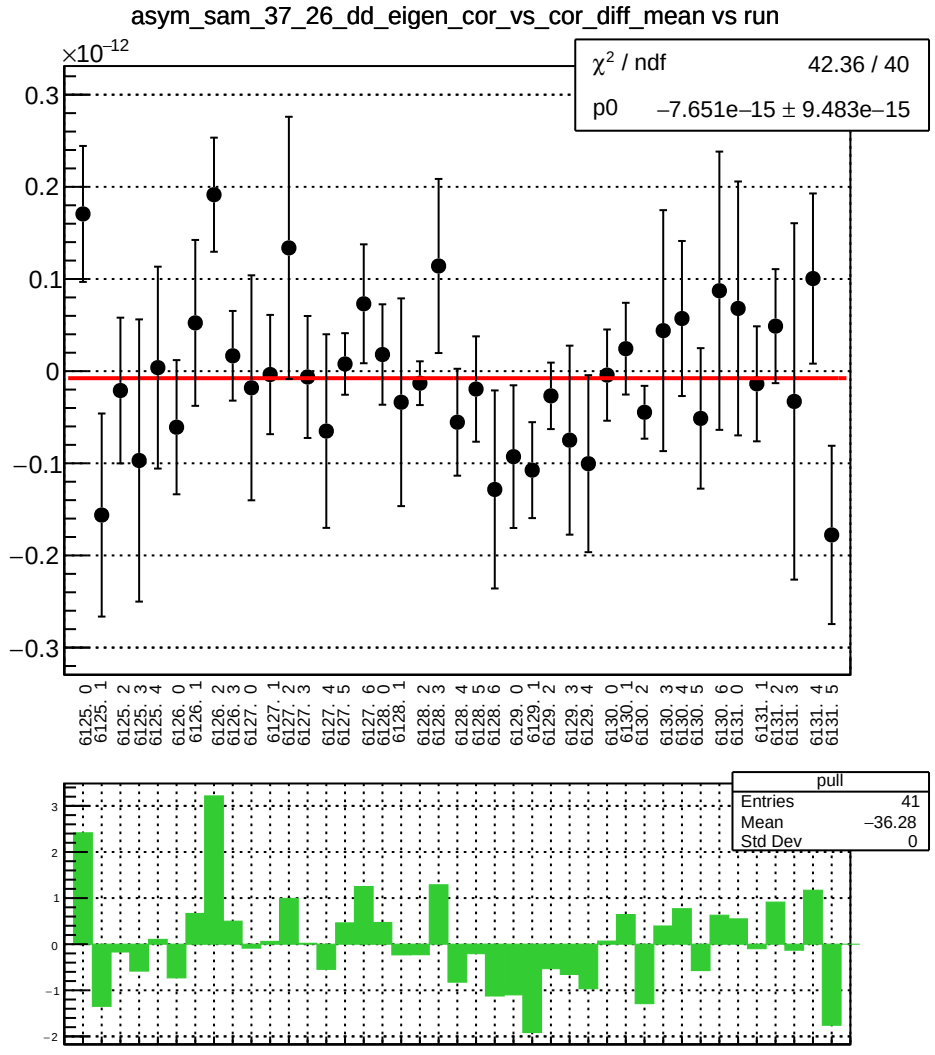

pull1D
Entries 41
Mean −0.01475
Std Dev 0.7787

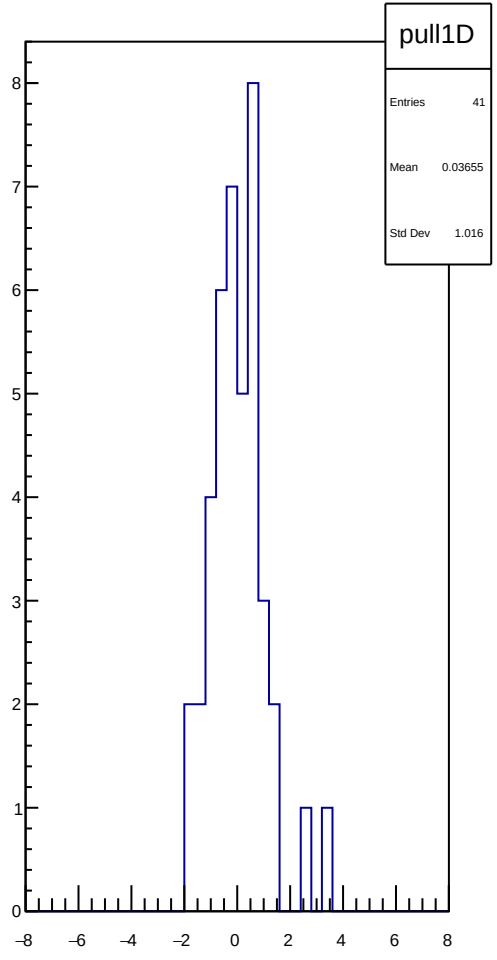

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.142e+04 / 40
p0 20.11 ± 0.02272
35
30
25
20
15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

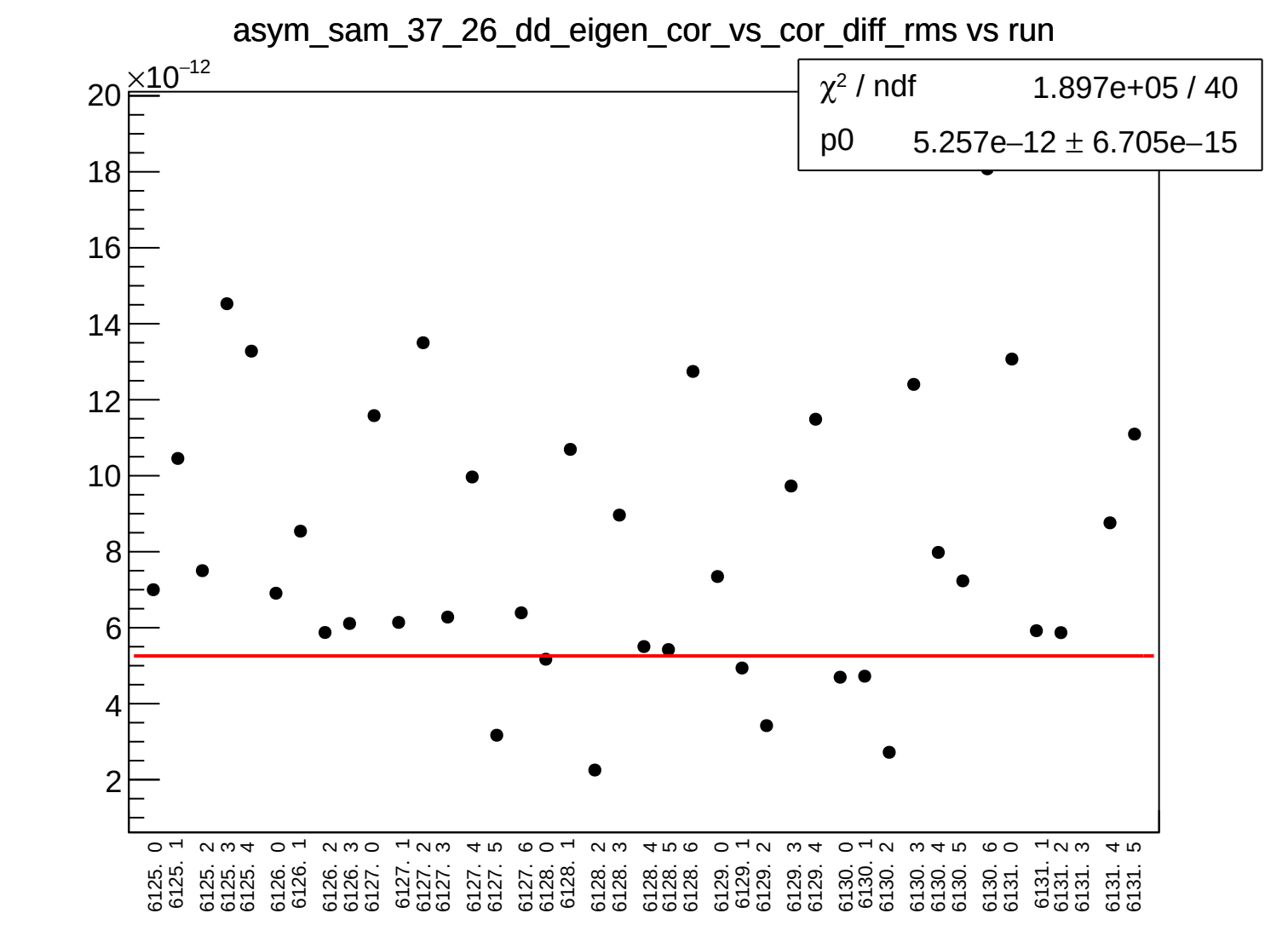

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.87 / 40
p0 0.0174 ± 0.03214
pull
Entries 41
Mean 20.73
Std Dev 47.14

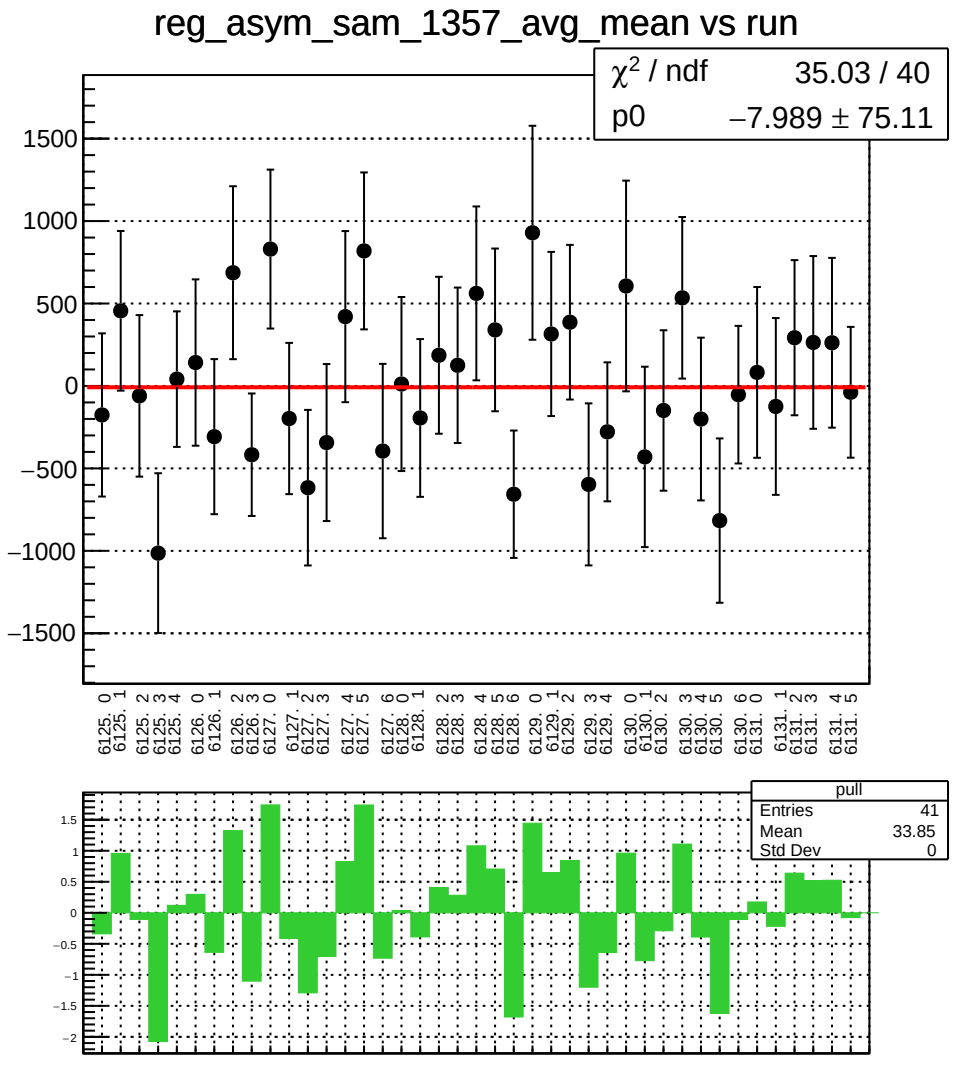

pull1D
Entries 41
Mean −0.01475
Std Dev 0.7787

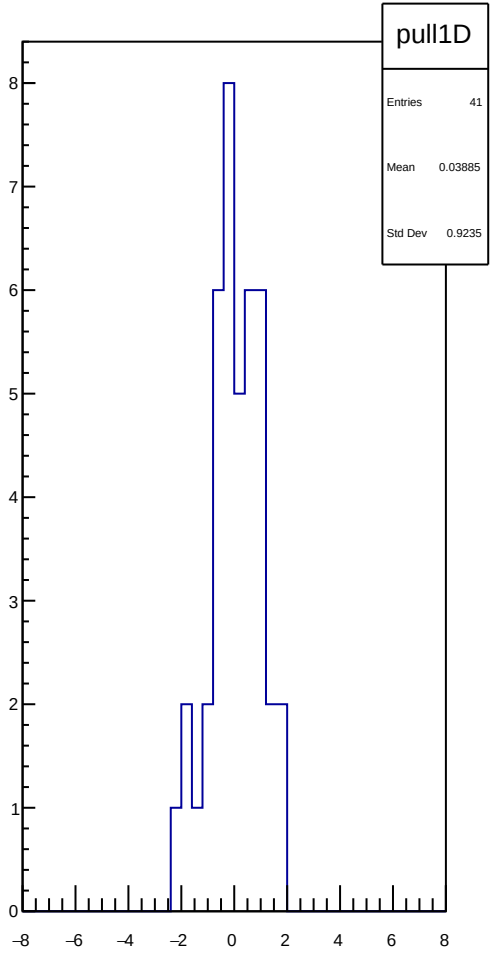

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.142e+04 / 40
p0 20.11 ± 0.02272
35
30
25
20
15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 42.36 / 40
p0 −7.651e−15 ± 9.483e−15
pull
Entries 41
Mean −36.28
Std Dev 0


pull1D
Entries 41
Mean 0.03655
Std Dev 1.016


asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.897e+05 / 40
p0 5.257e−12 ± 6.705e−15
20
18
16
14
12
10
8
6
4
2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


reg_asym_sam_1357_avg_mean vs run
χ² / ndf 35.03 / 40
p0 −7.989 ± 75.11
1500
1000
500
0
−500
−1000
−1500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 33.85
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.03885
Std Dev 0.9235
8
7
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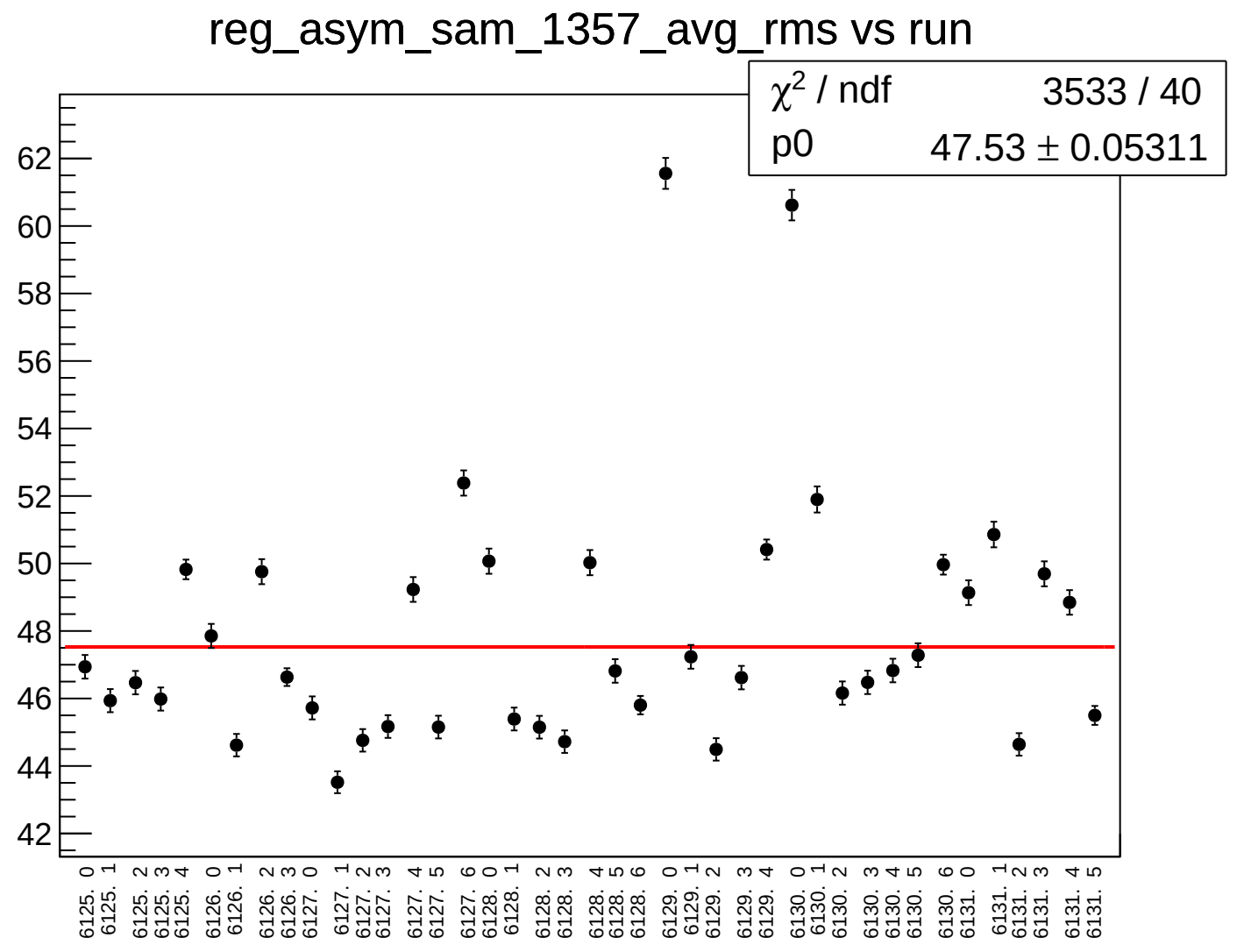
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_1357_avg_rms vs run
χ² / ndf 3533 / 40
p0 47.53 ± 0.05311
62
60
58
56
54
52
50
48
46
44
42
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
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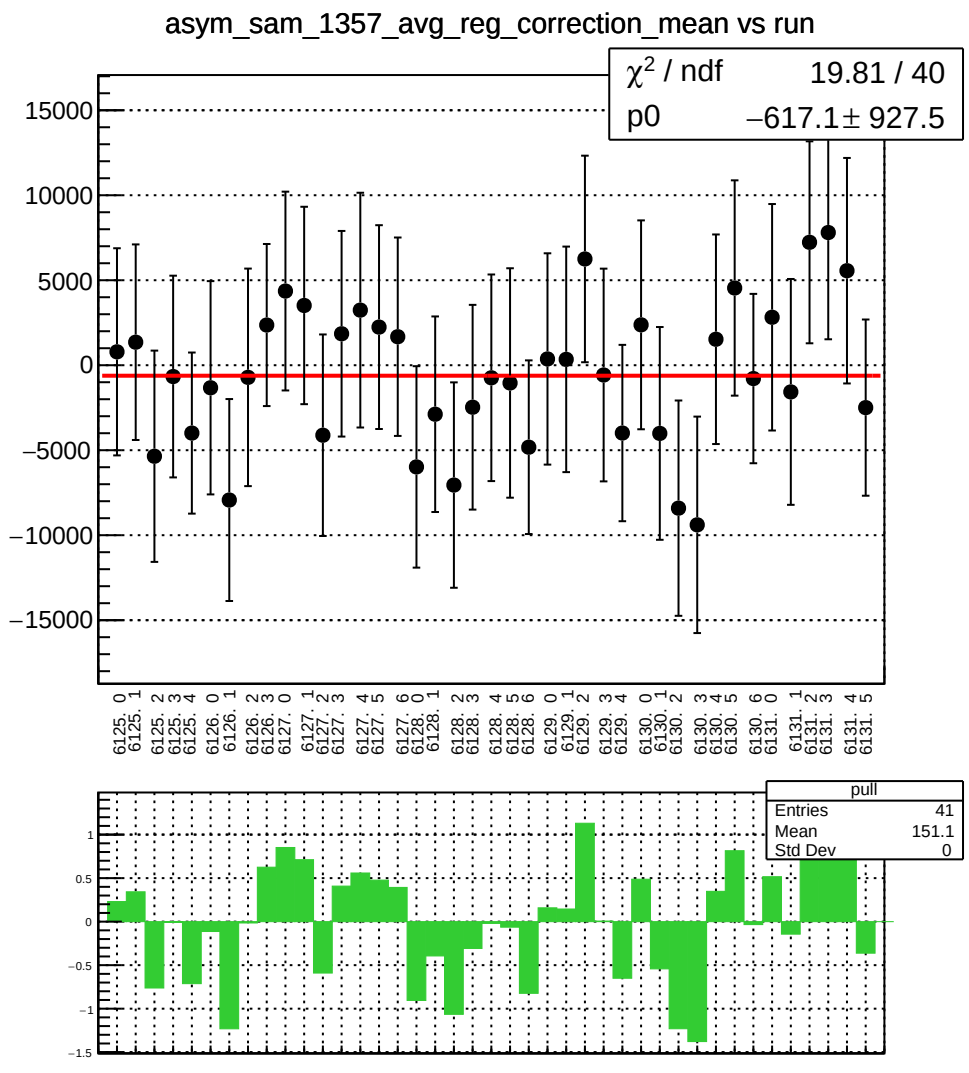
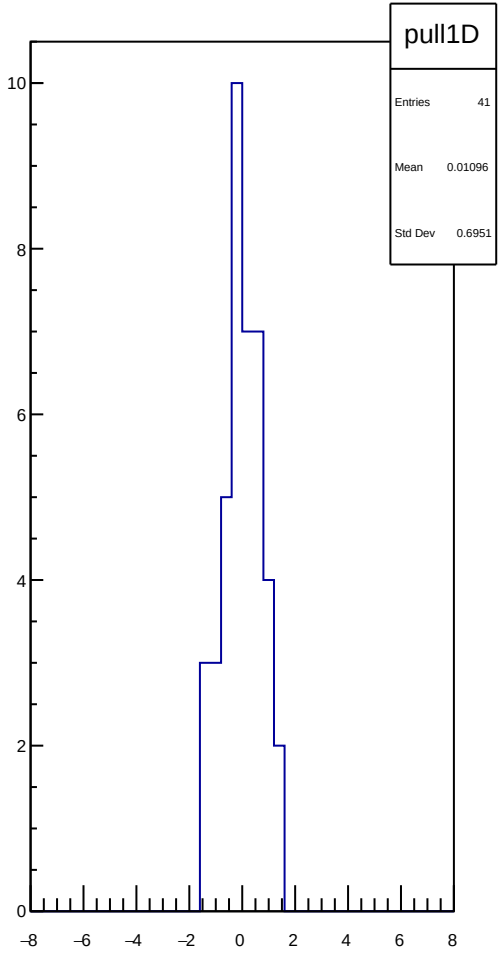
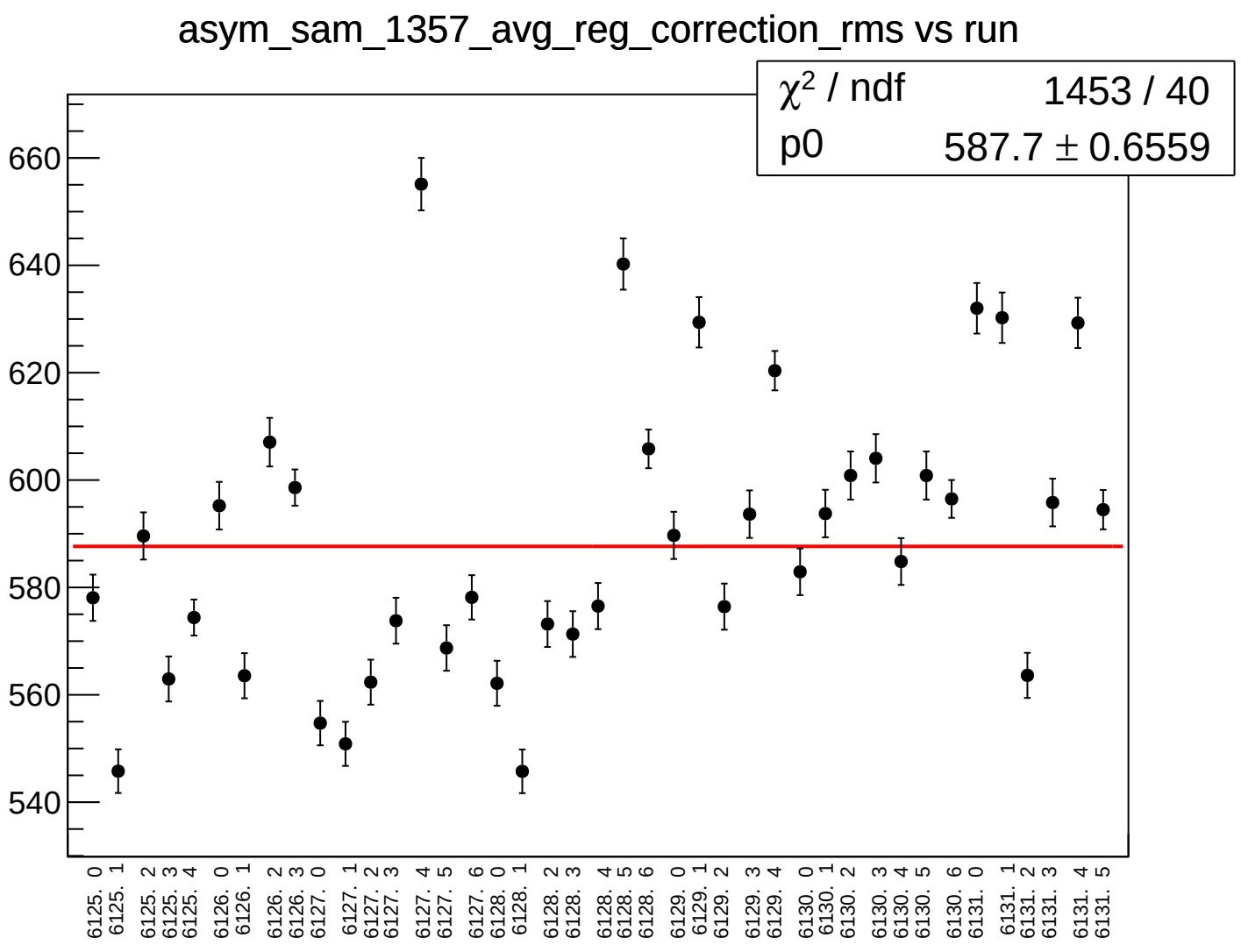
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 19.81 / 40
p0 −617.1± 927.5
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 151.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.01096
Std Dev 0.6951
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 1453 / 40
p0 587.7 ± 0.6559
660
640
620
600
580
560
540
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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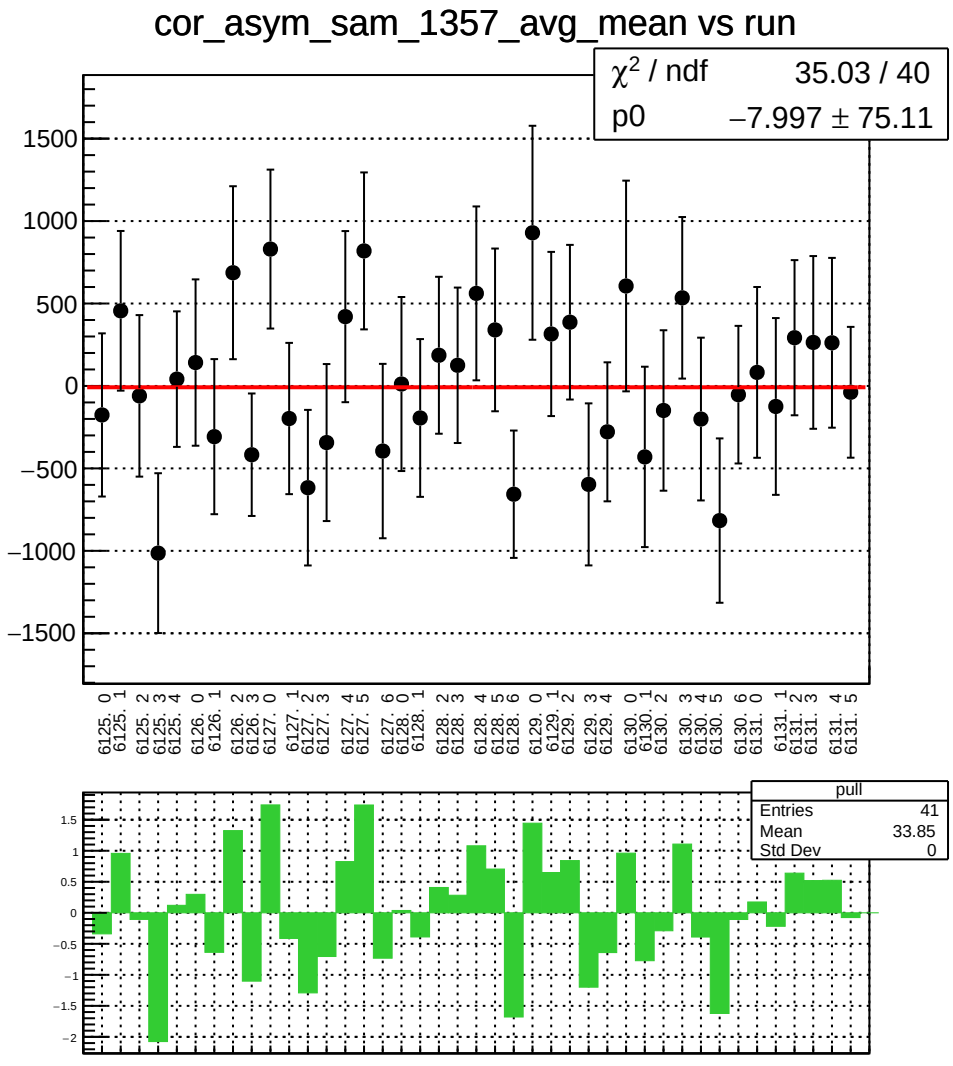
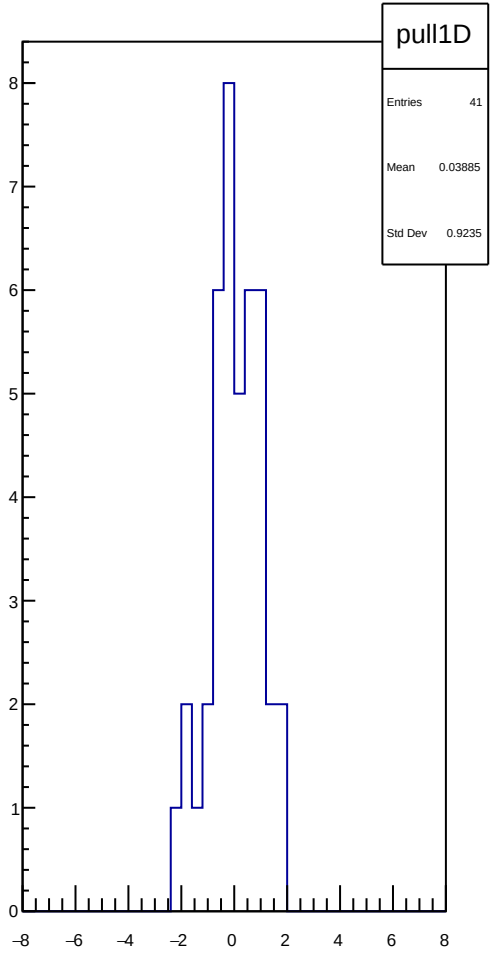
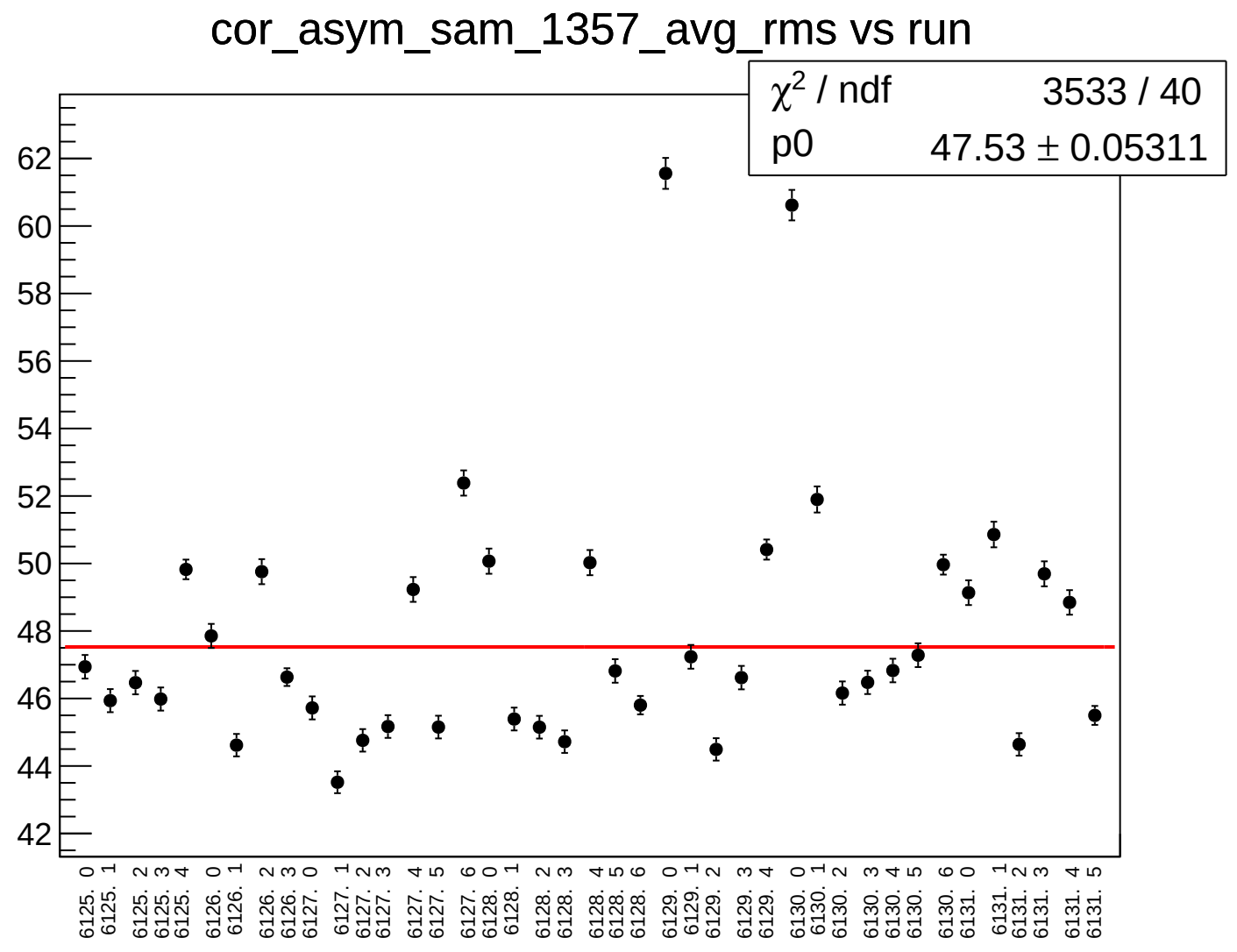
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


cor_asym_sam_1357_avg_mean vs run
χ² / ndf 35.03 / 40
p0 −7.997 ± 75.11
1500
1000
500
0
−500
−1000
−1500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 33.85
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.03885
Std Dev 0.9235
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_1357_avg_rms vs run
χ² / ndf 3533 / 40
p0 47.53 ± 0.05311
62
60
58
56
54
52
50
48
46
44
42
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
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6130. 2
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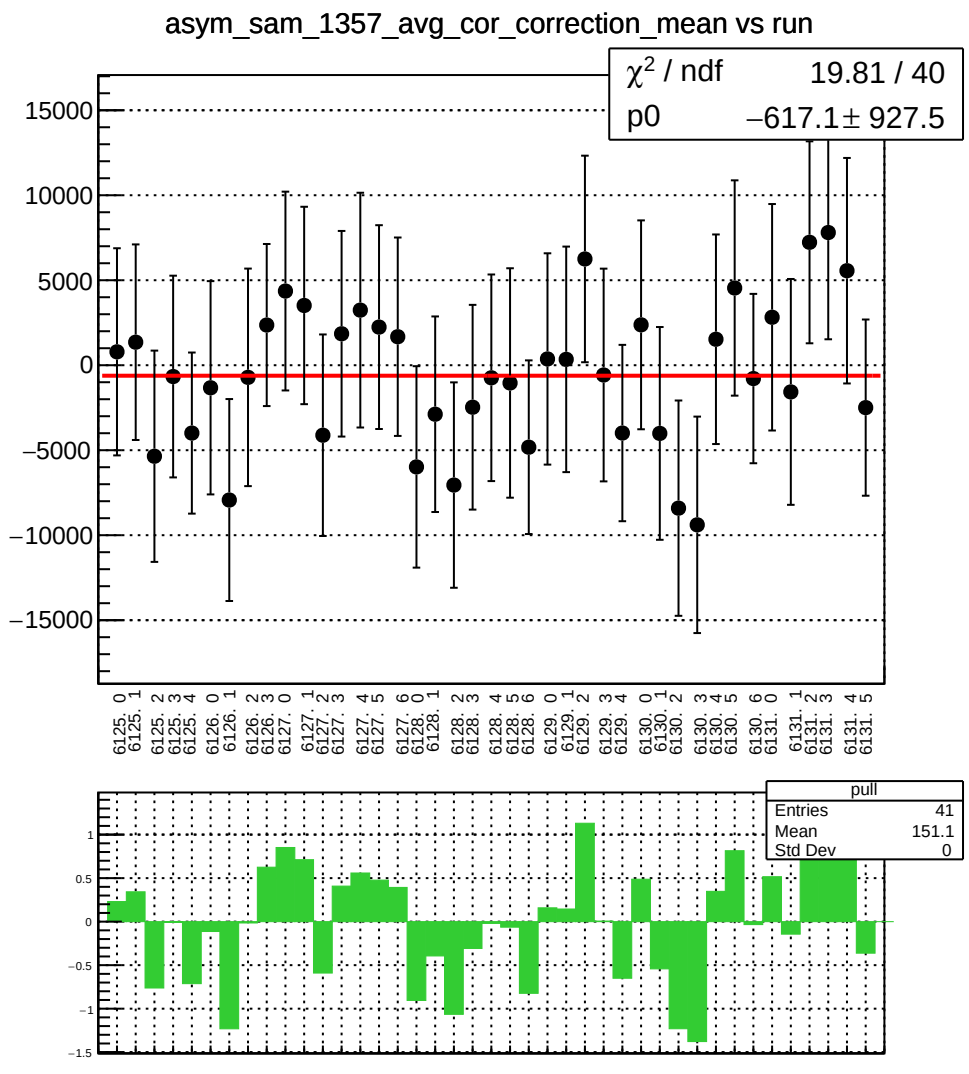
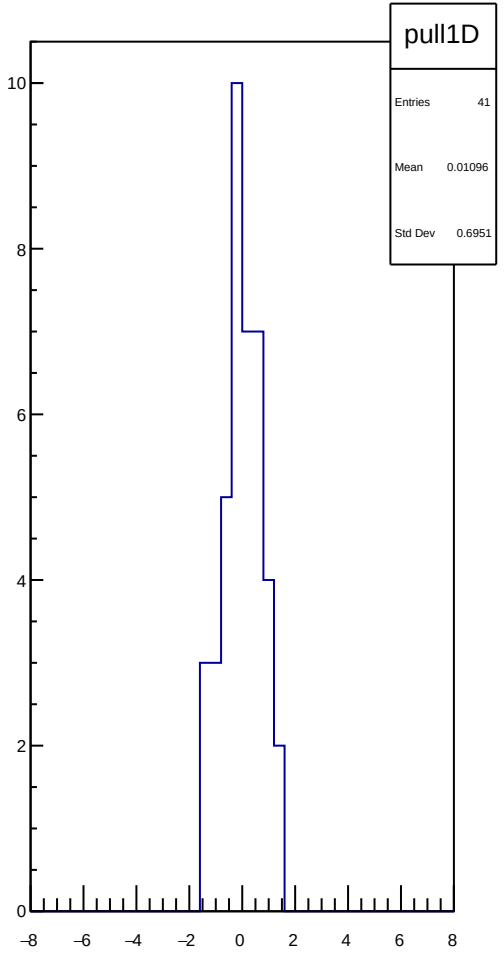
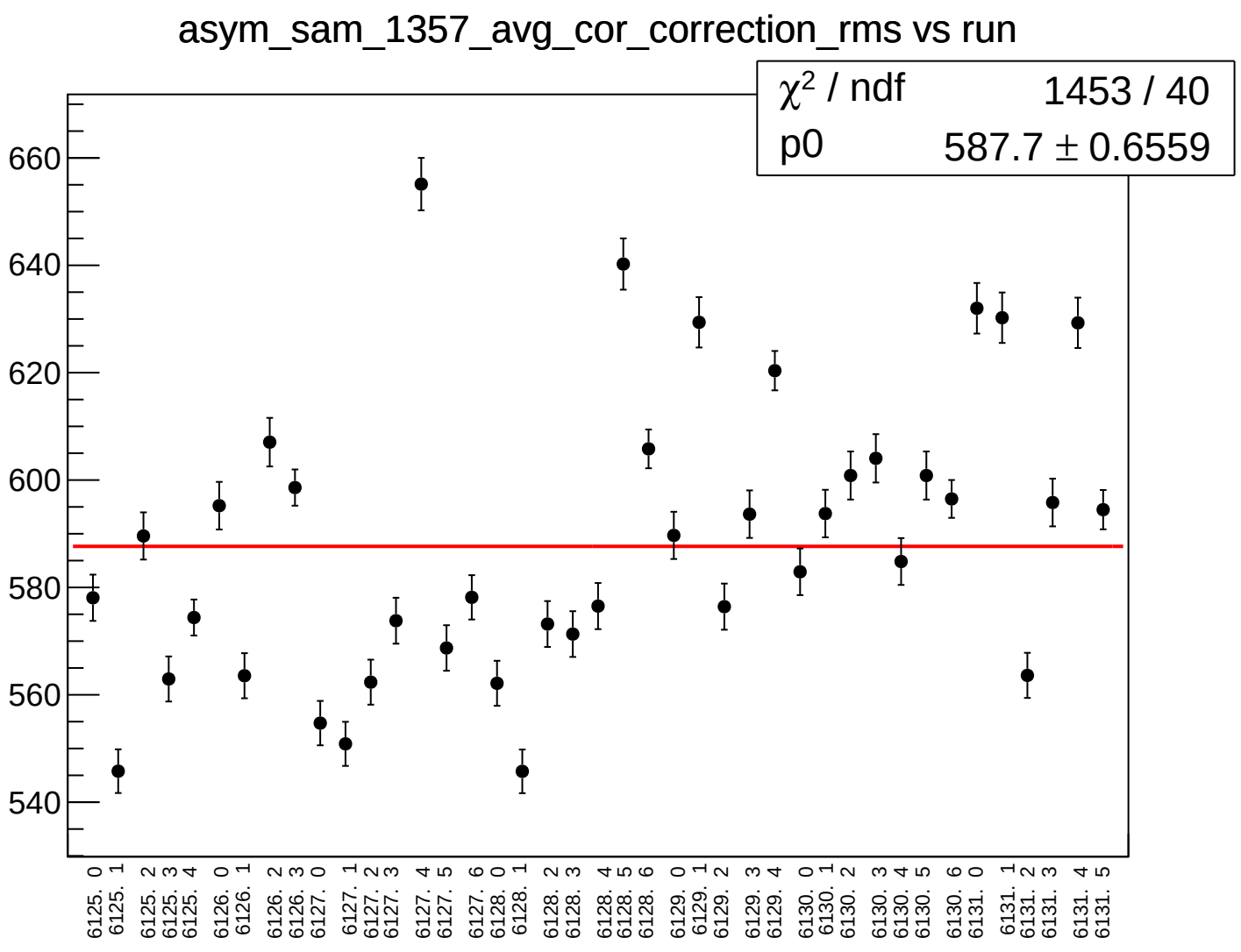
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 19.81 / 40
p0 −617.1± 927.5
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 151.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.01096
Std Dev 0.6951
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 1453 / 40
p0 587.7 ± 0.6559
660
640
620
600
580
560
540
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
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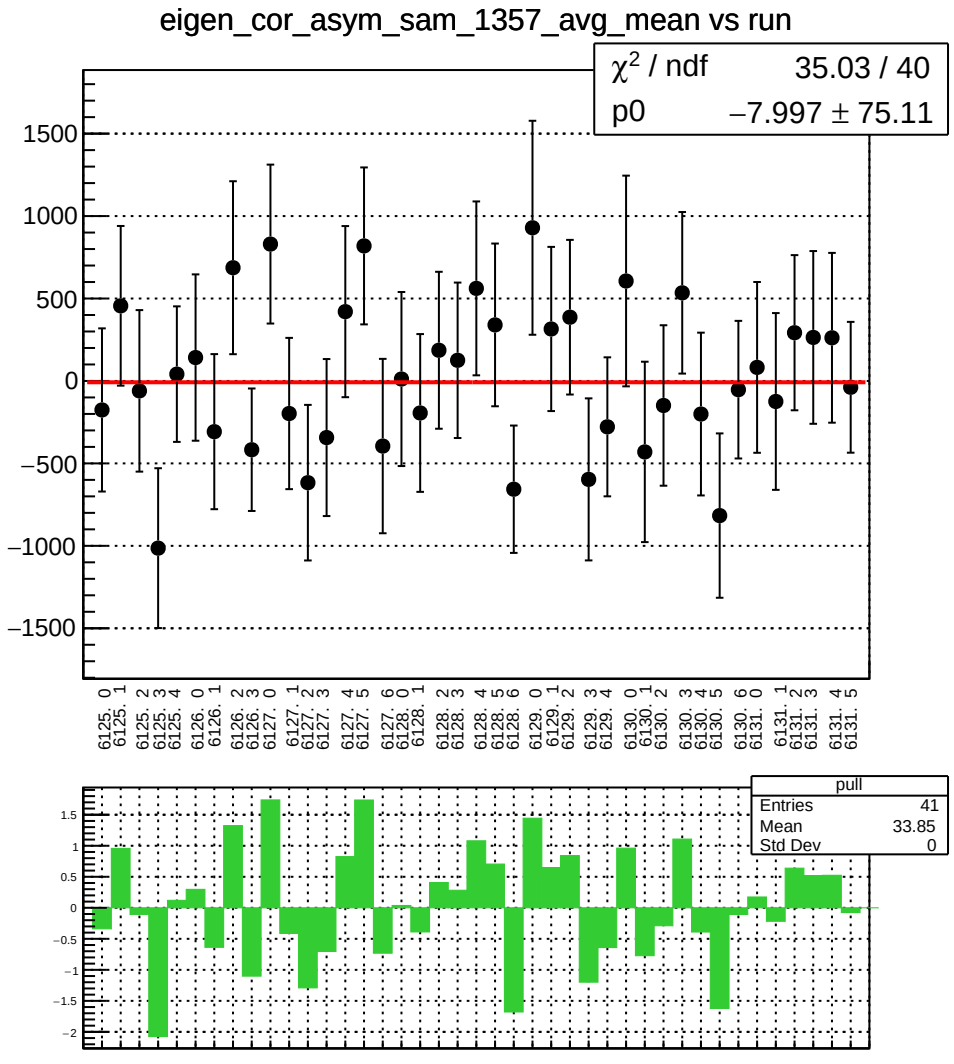
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 35.03 / 40
p0 −7.997 ± 75.11
1500
1000
500
0
−500
−1000
−1500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
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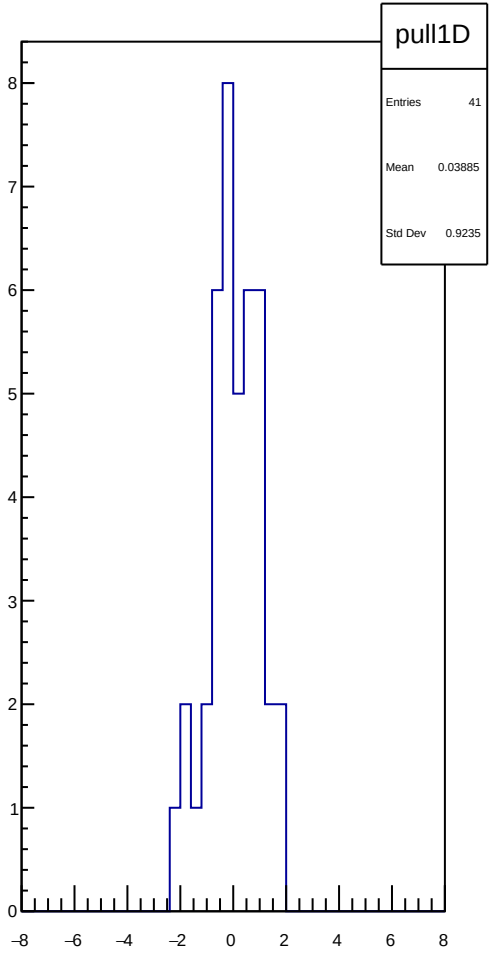
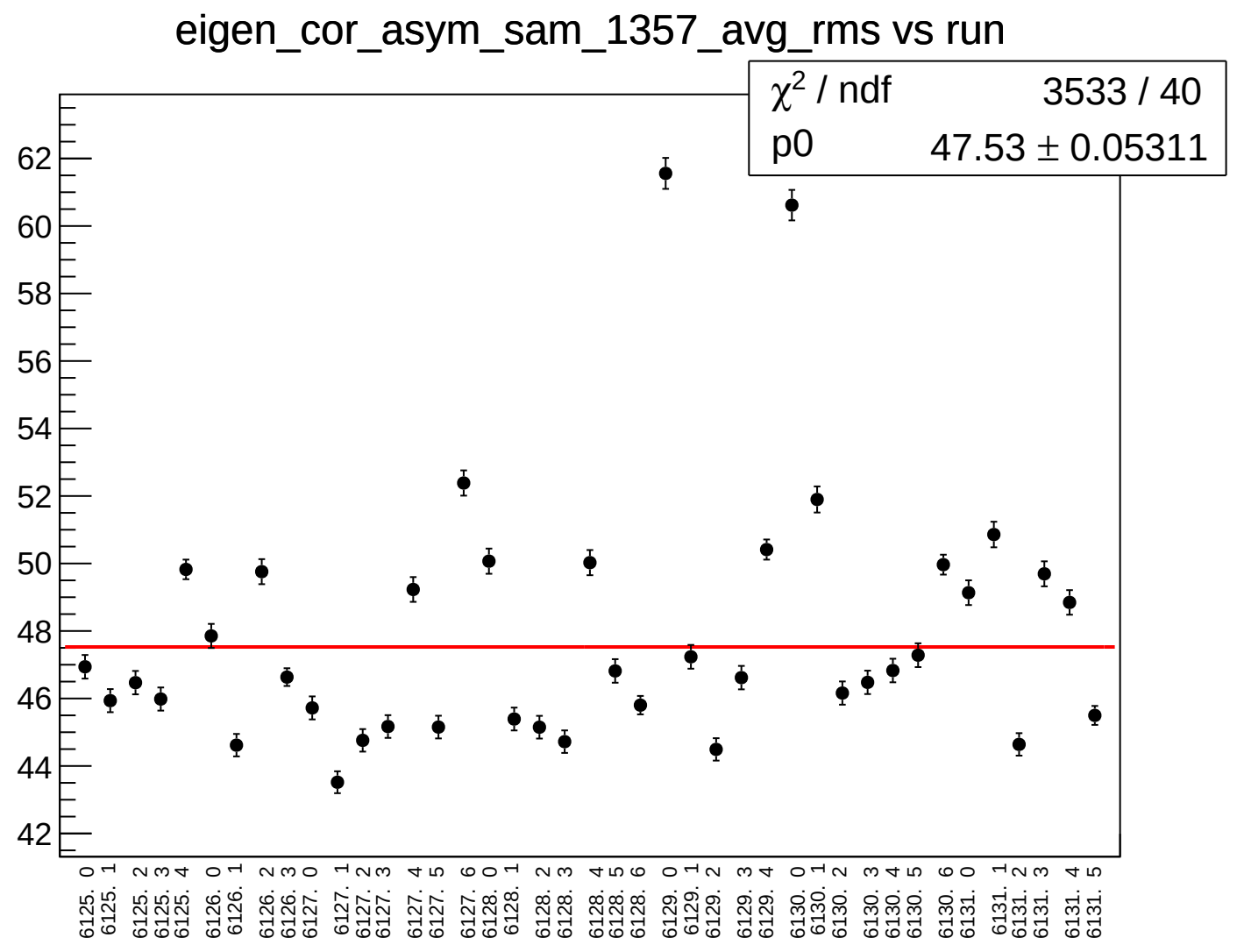
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 33.85
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.03885
Std Dev 0.9235
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 3533 / 40
p0 47.53 ± 0.05311
62
60
58
56
54
52
50
48
46
44
42
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
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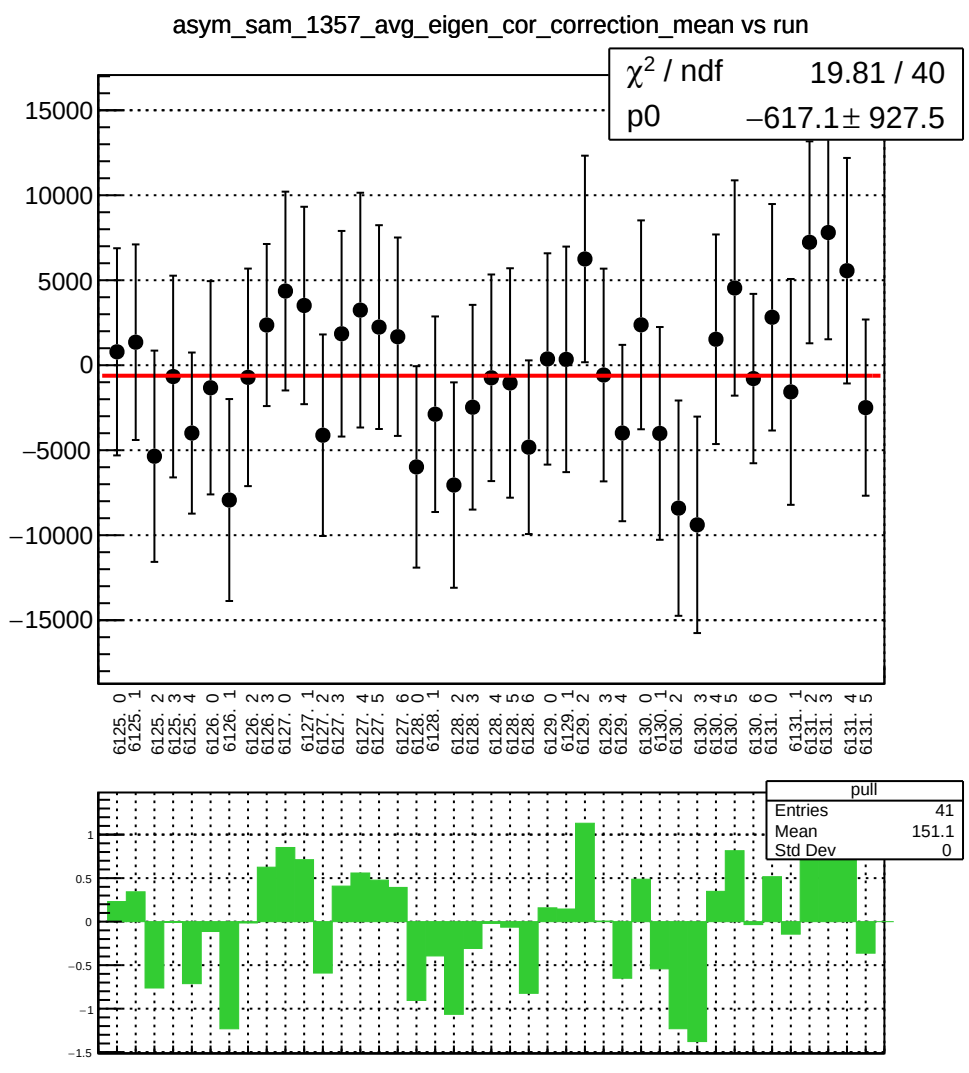
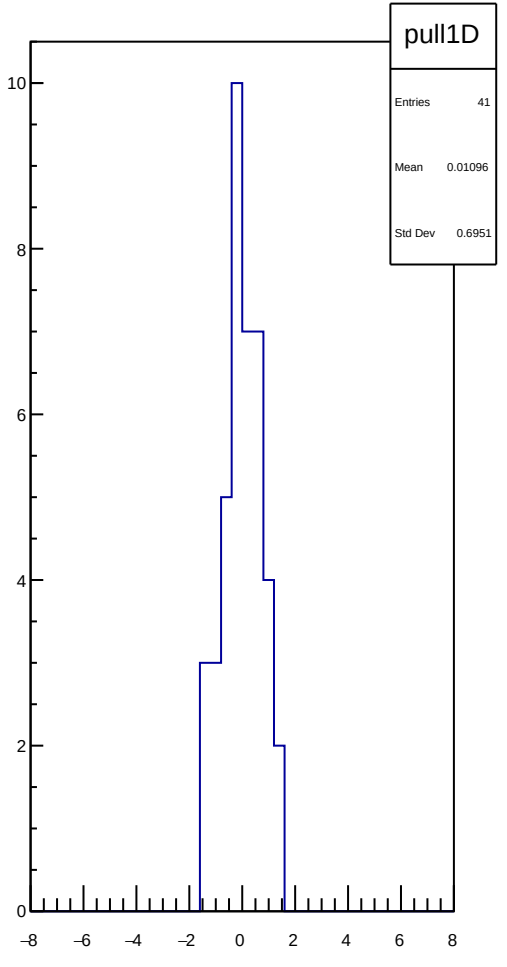
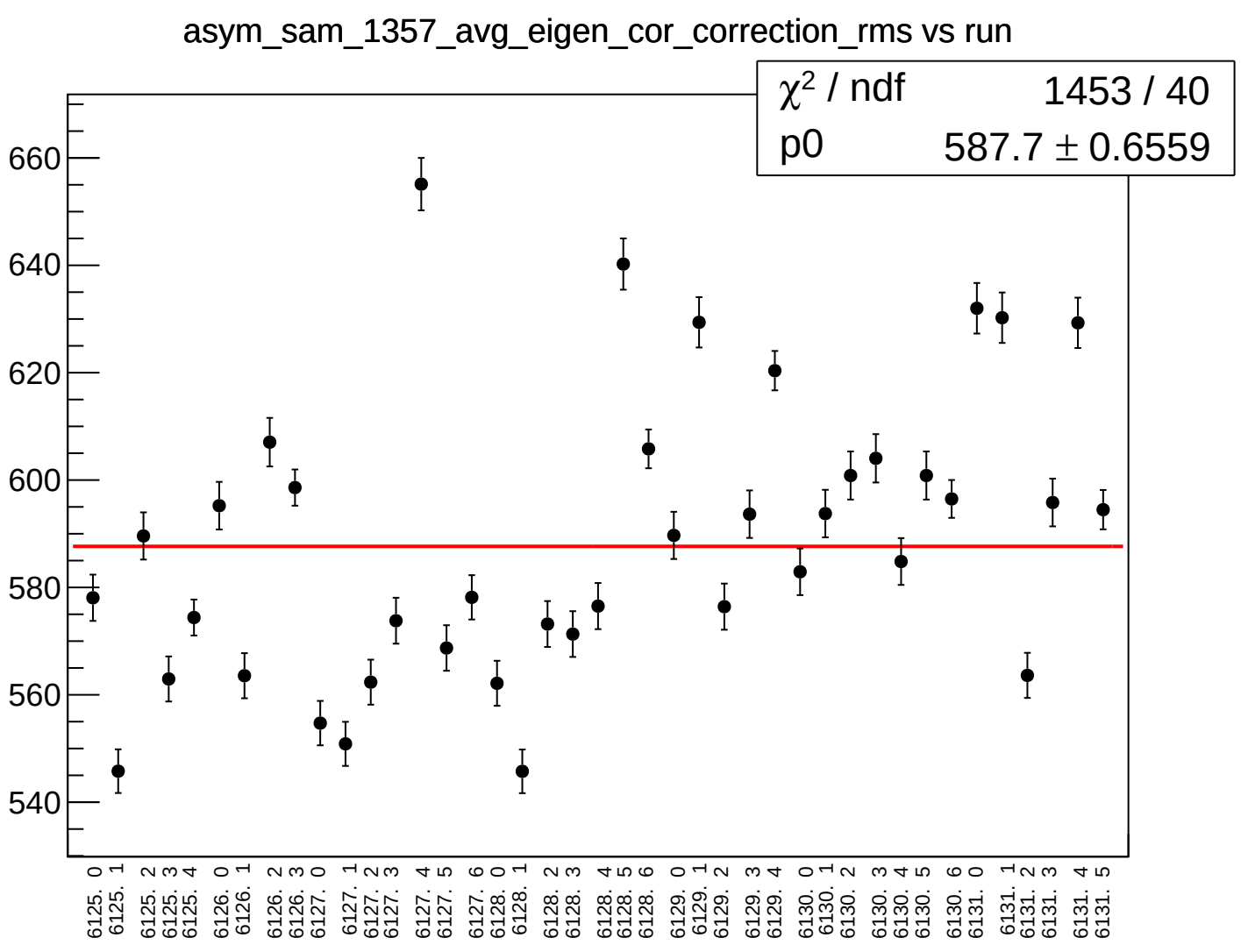
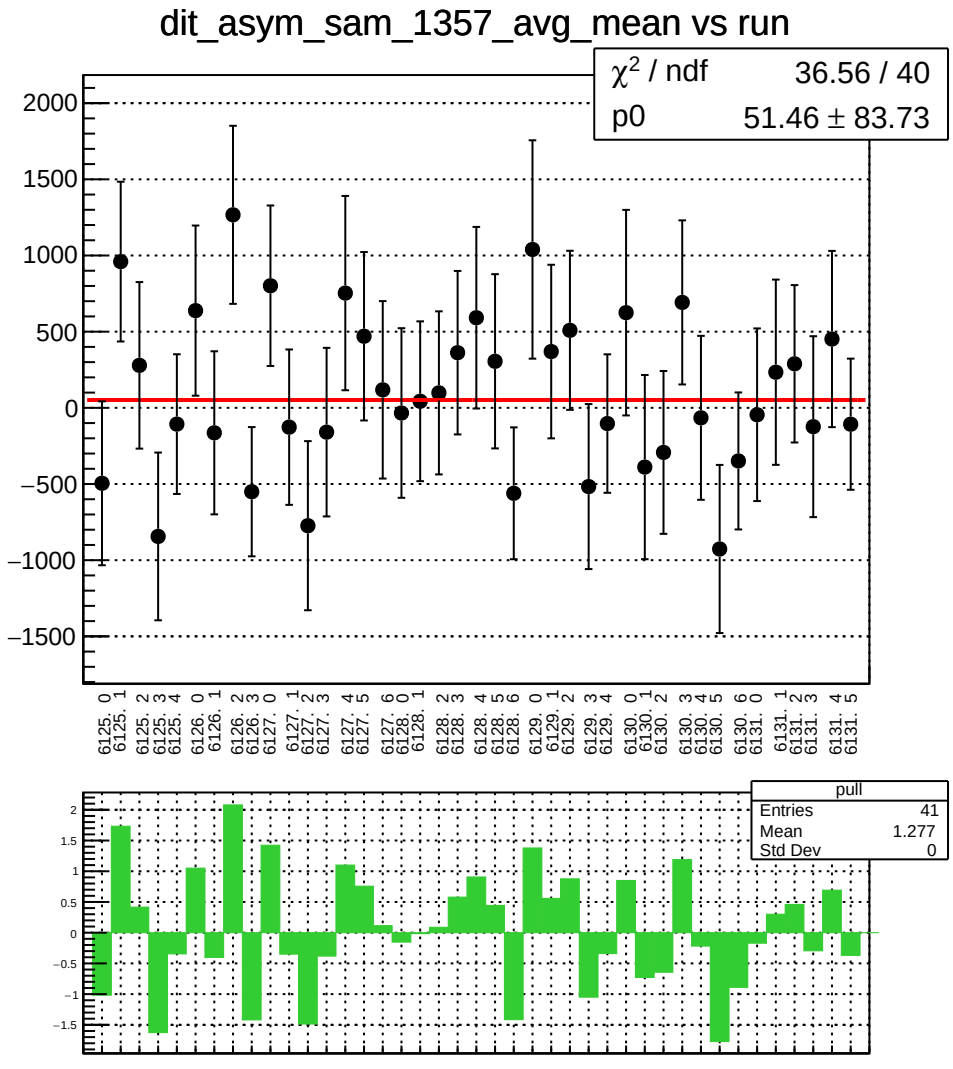
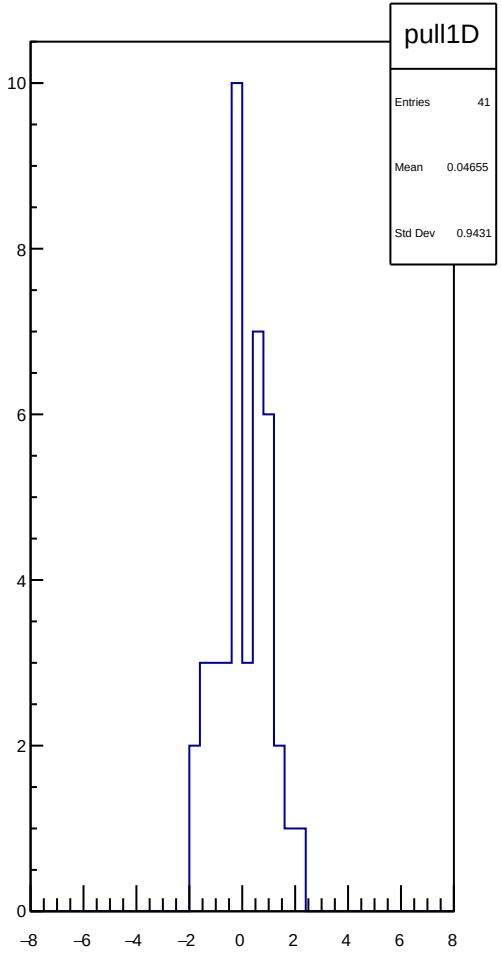
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

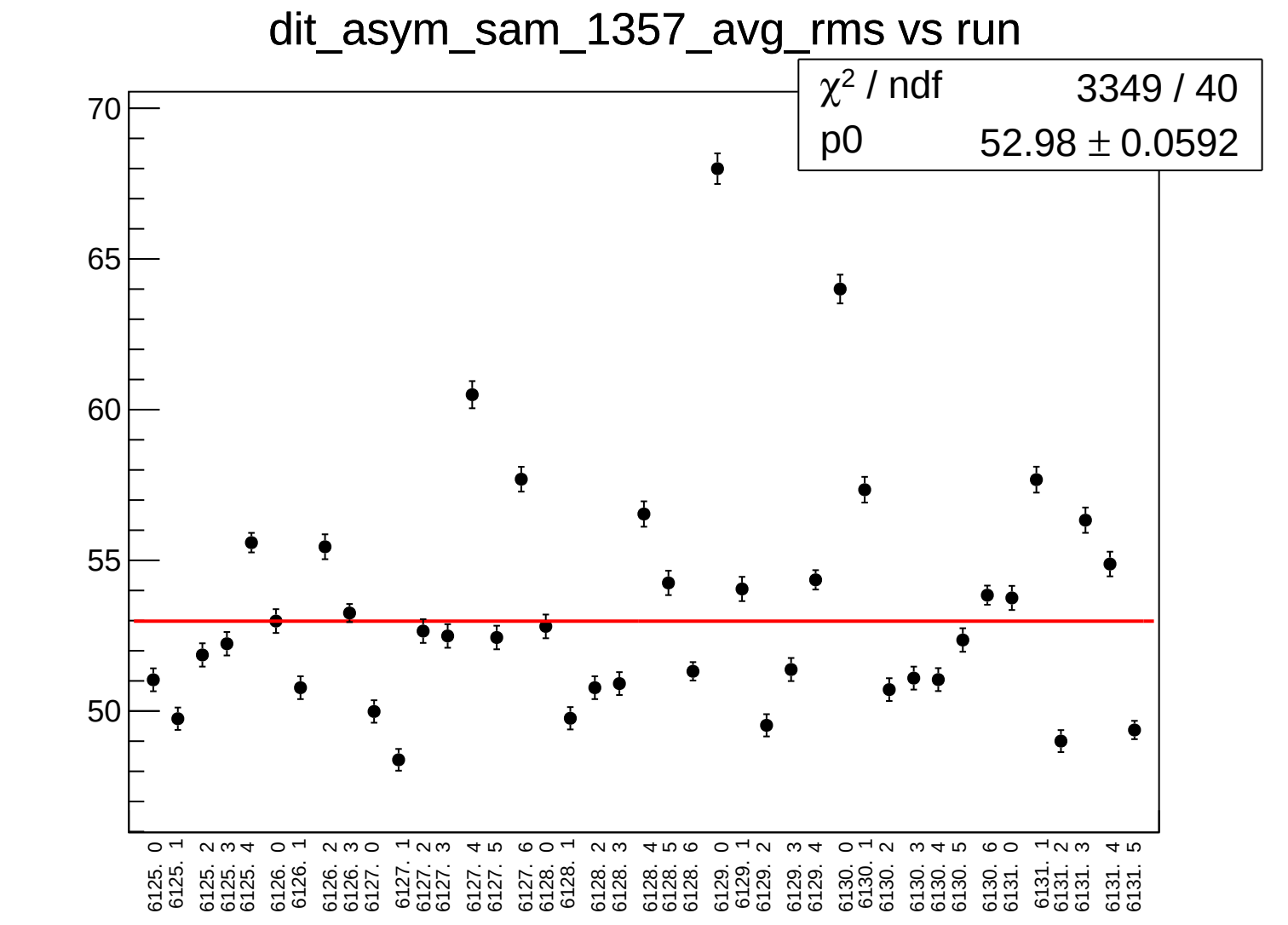

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 19.81 / 40
p0 −617.1± 927.5
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 151.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

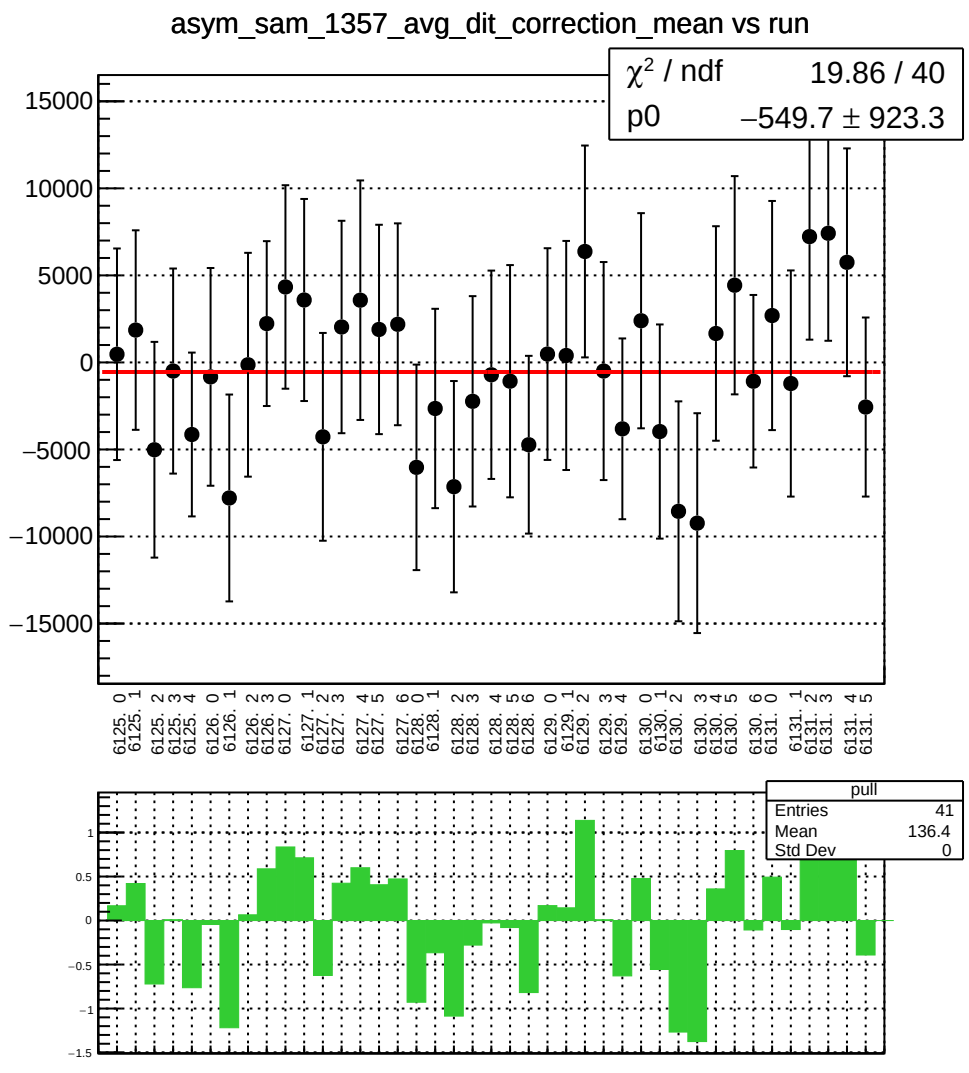

pull1D
Entries 41
Mean 0.01096
Std Dev 0.6951
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 1453 / 40
p0 587.7 ± 0.6559
660
640
620
600
580
560
540
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


dit_asym_sam_1357_avg_mean vs run
χ² / ndf 36.56 / 40
p0 51.46 ± 83.73
2000
1500
1000
500
0
−500
−1000
−1500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1.277
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.04655
Std Dev 0.9431
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_1357_avg_rms vs run
χ² / ndf 3349 / 40
p0 52.98 ± 0.0592
70
65
60
55
50
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 19.86 / 40
p0 −549.7 ± 923.3
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
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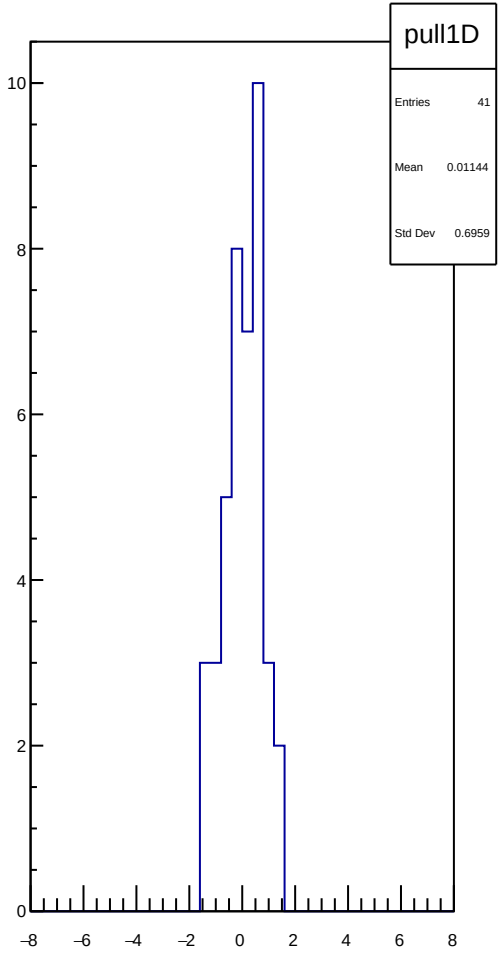
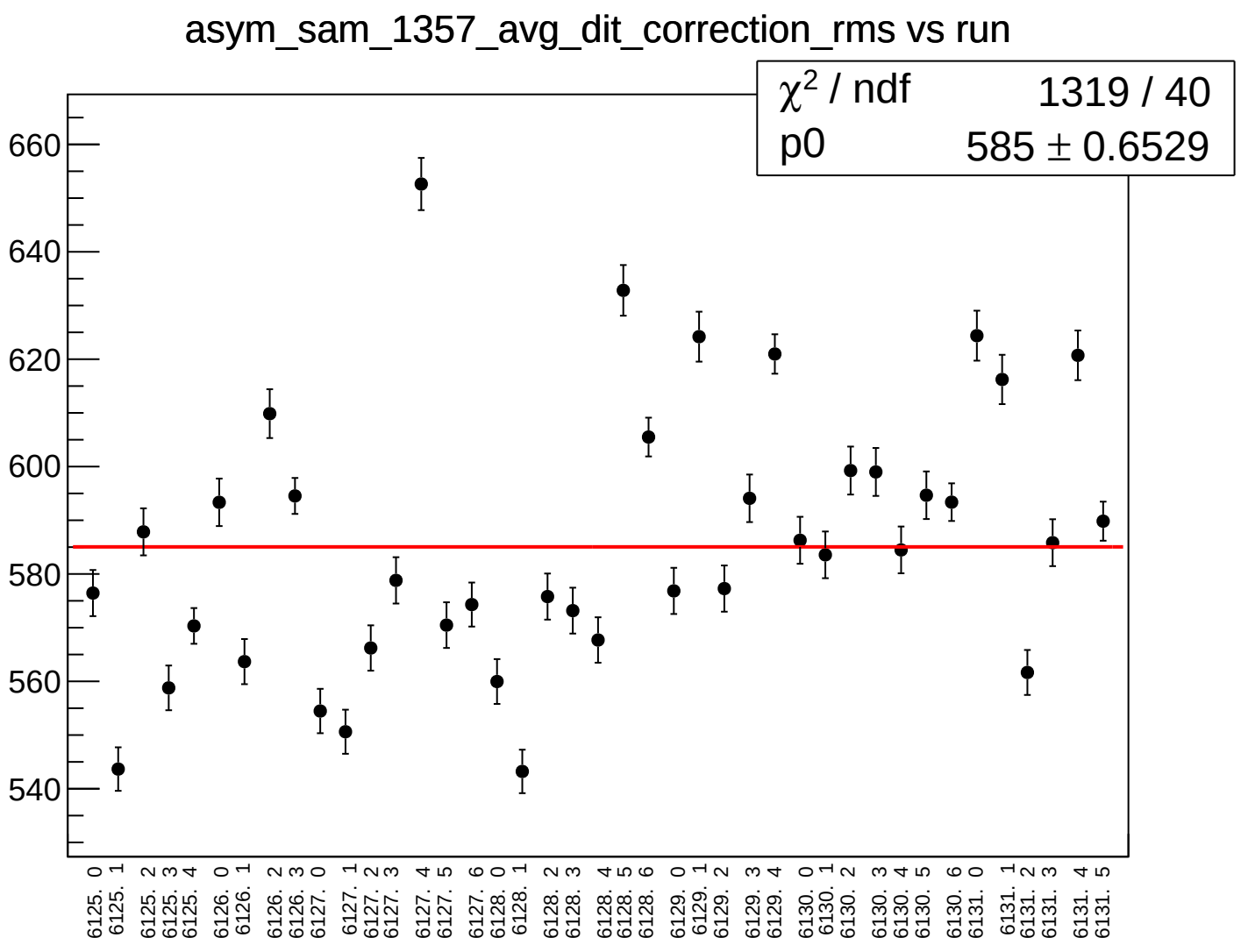
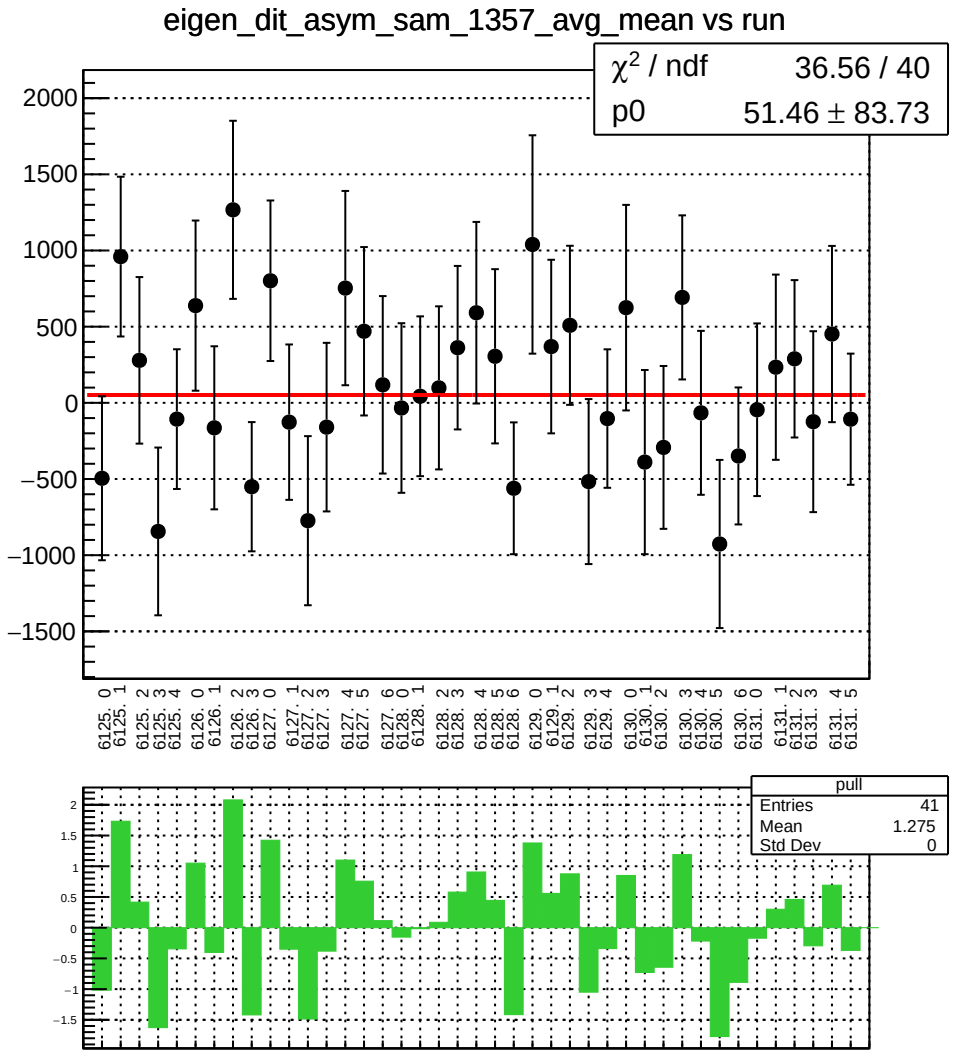
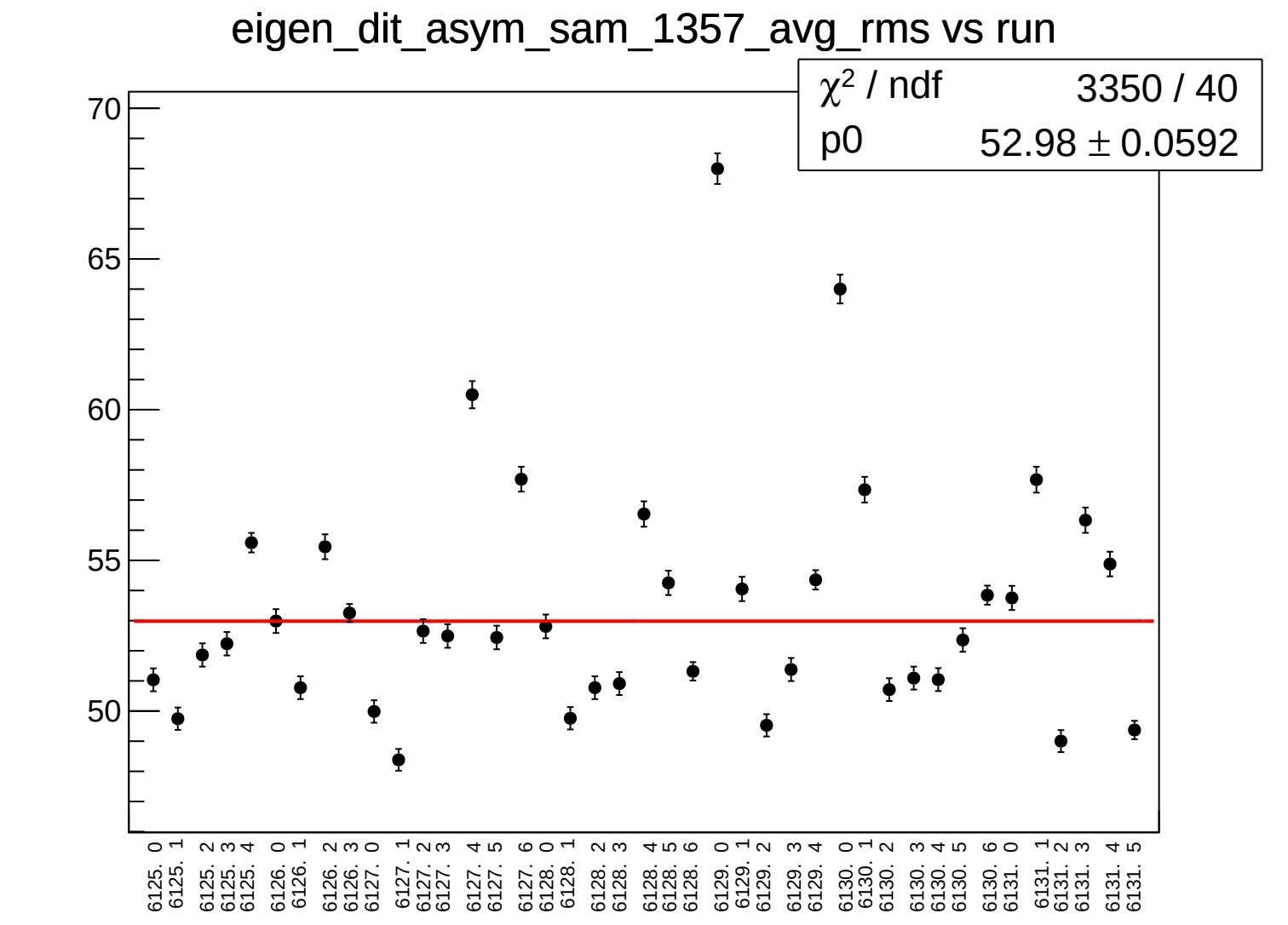
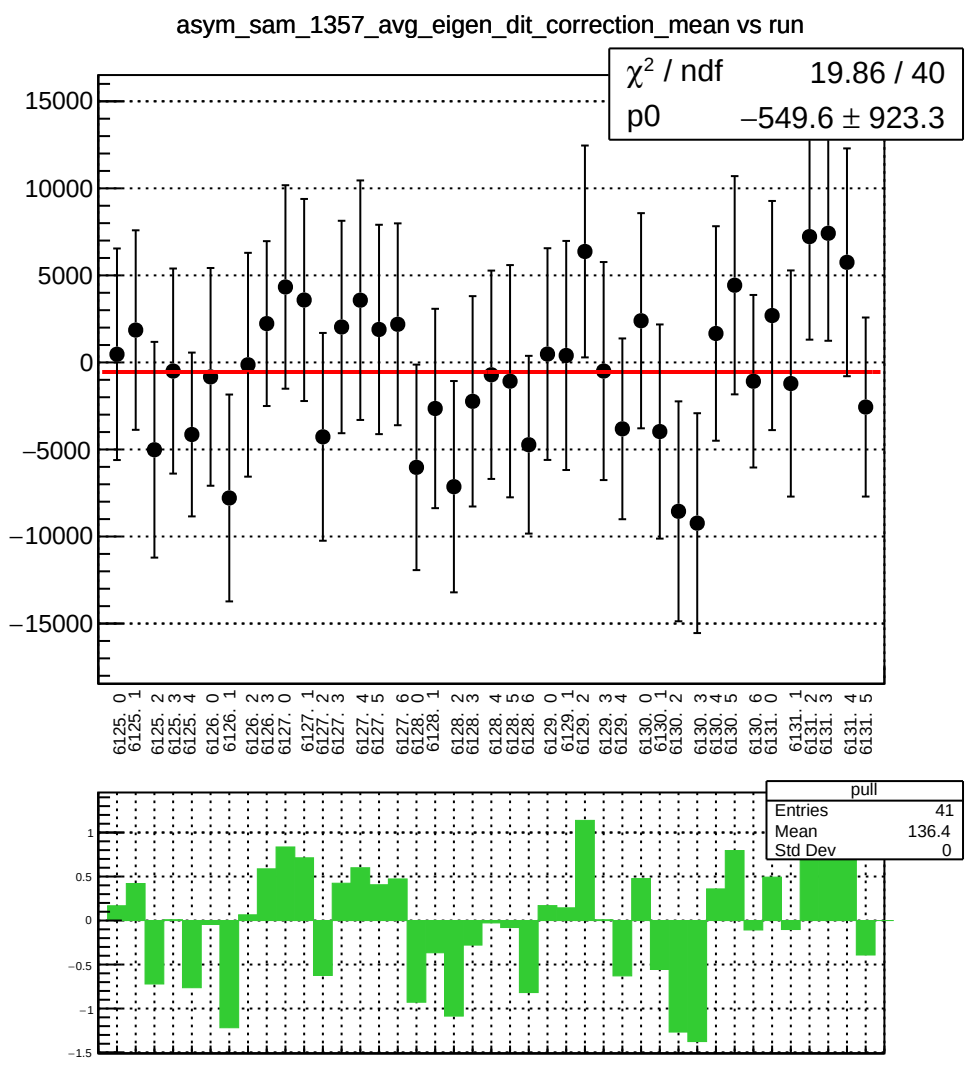
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 136.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

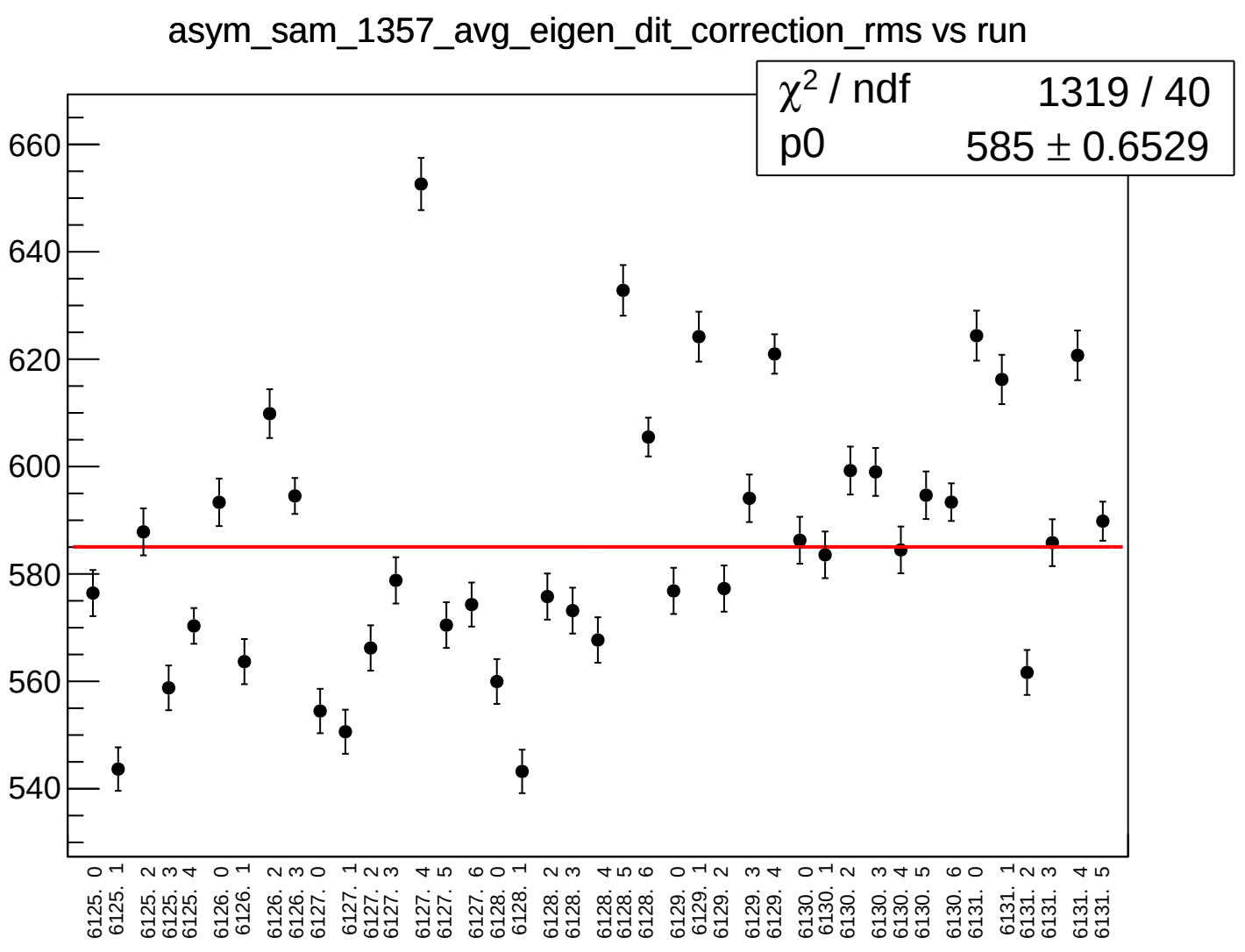

pull1D
Entries 41
Mean 0.01144
Std Dev 0.6959
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

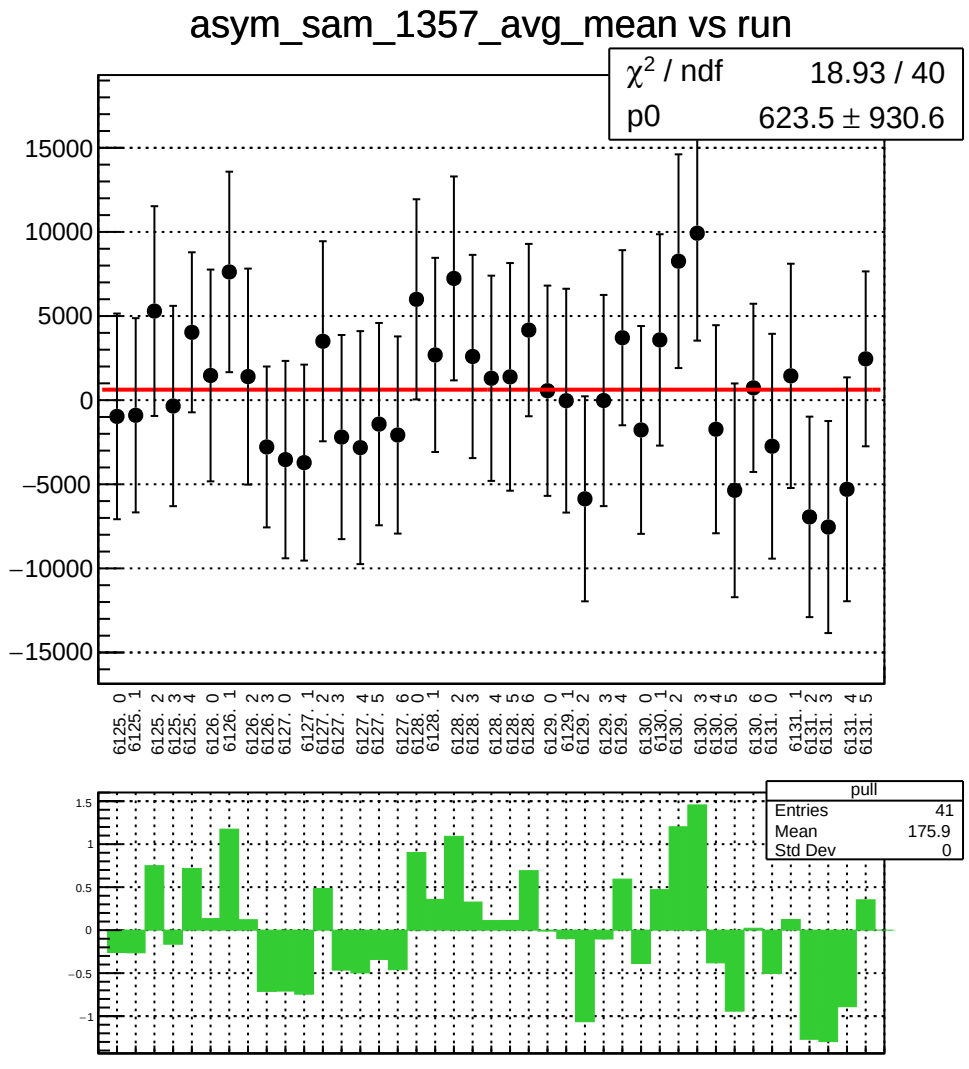

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 1319 / 40
p0 585 ± 0.6529
660
640
620
600
580
560
540
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

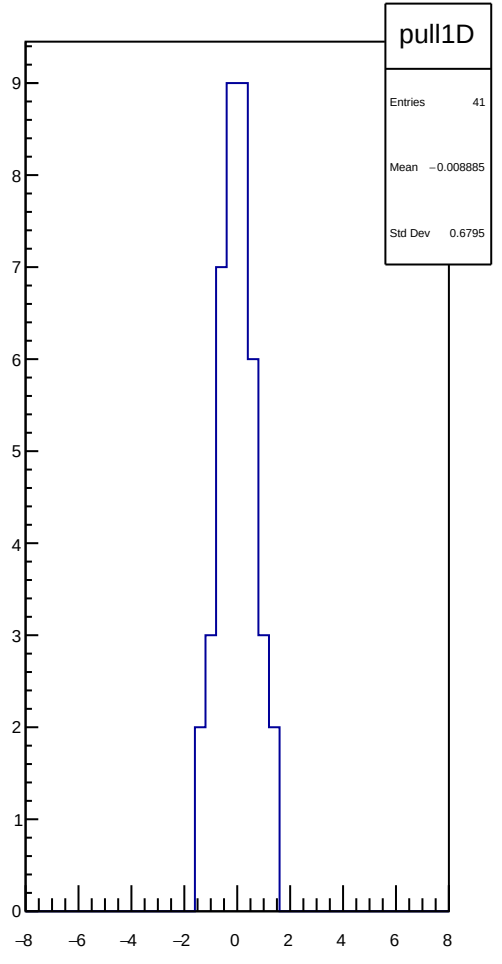

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 36.56 / 40
p0 51.46 ± 83.73
2000
1500
1000
500
0
−500
−1000
−1500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1.275
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.04655
Std Dev 0.9431
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

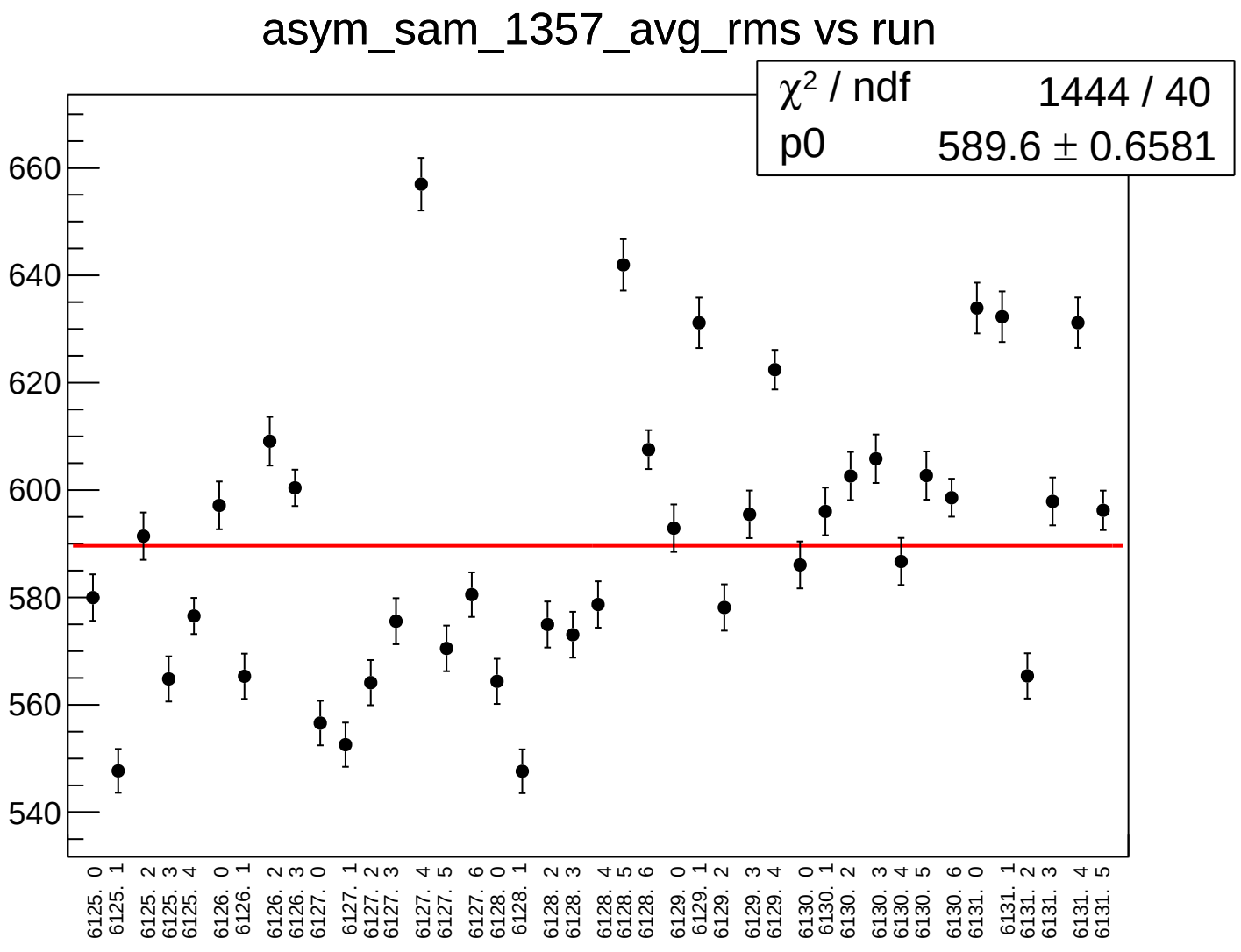

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 3350 / 40
p0 52.98 ± 0.0592
70
65
60
55
50
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

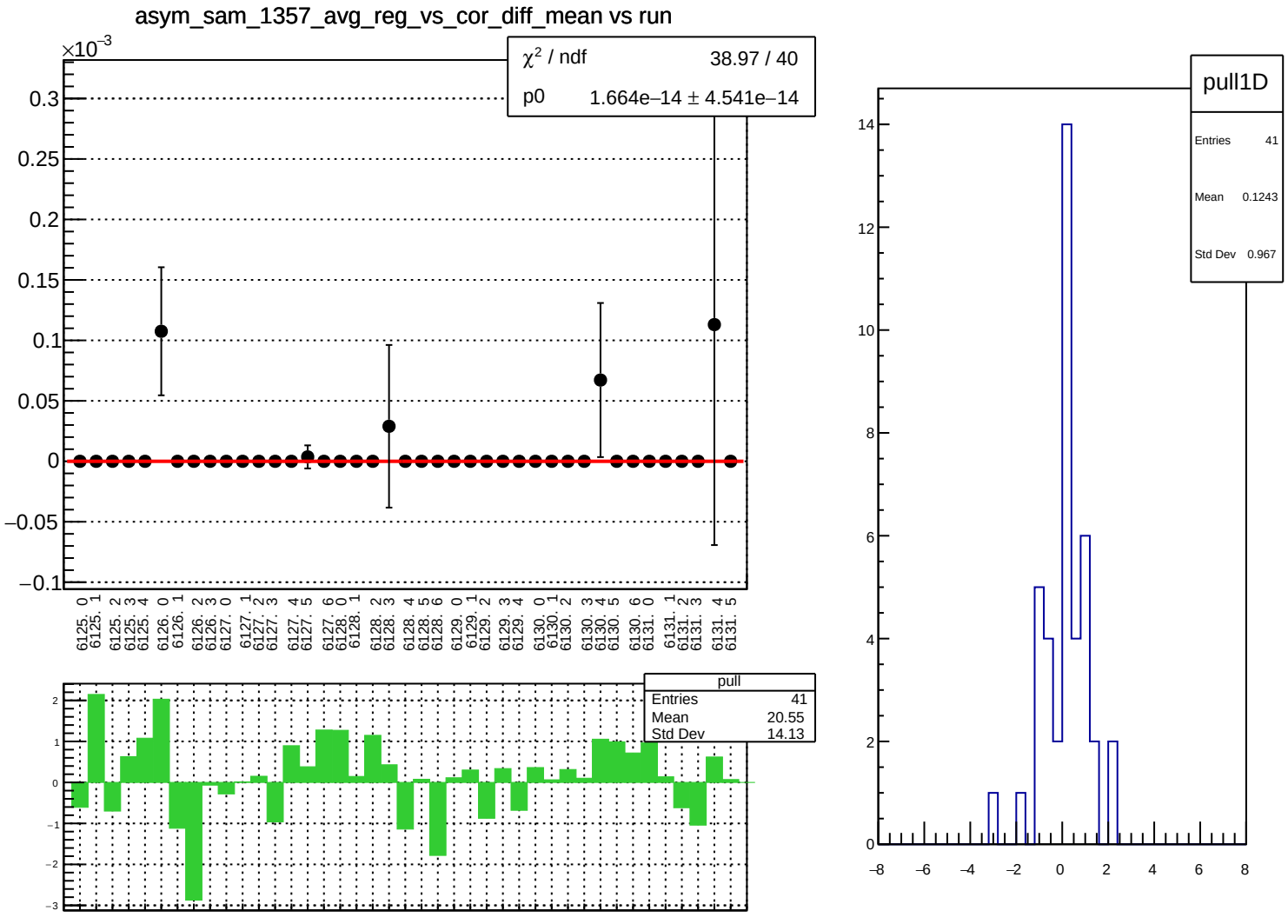

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 19.86 / 40
p0 −549.6 ± 923.3
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 136.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.01144
Std Dev 0.6959
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

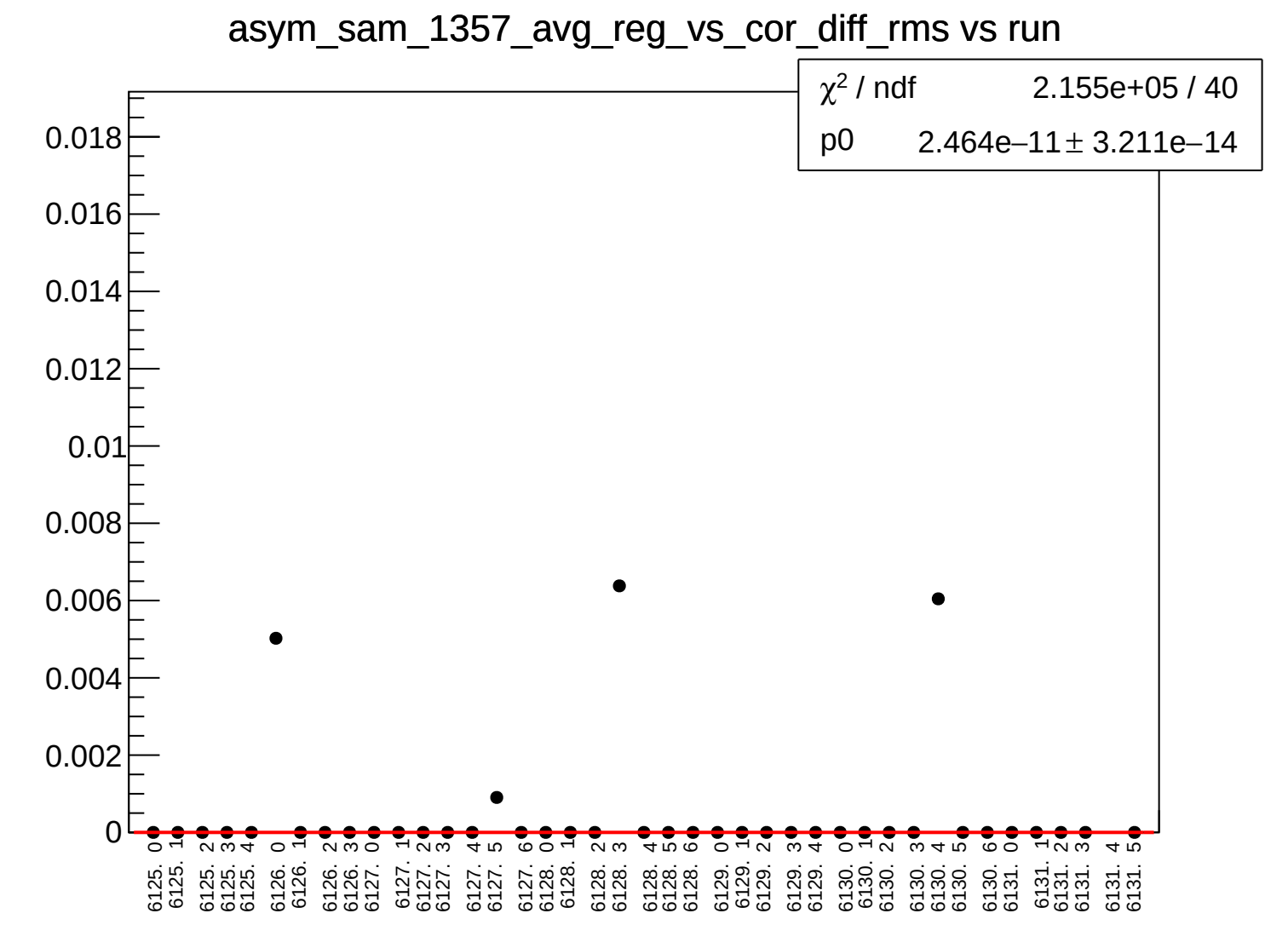

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 1319 / 40
p0 585 ± 0.6529
660
640
620
600
580
560
540
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

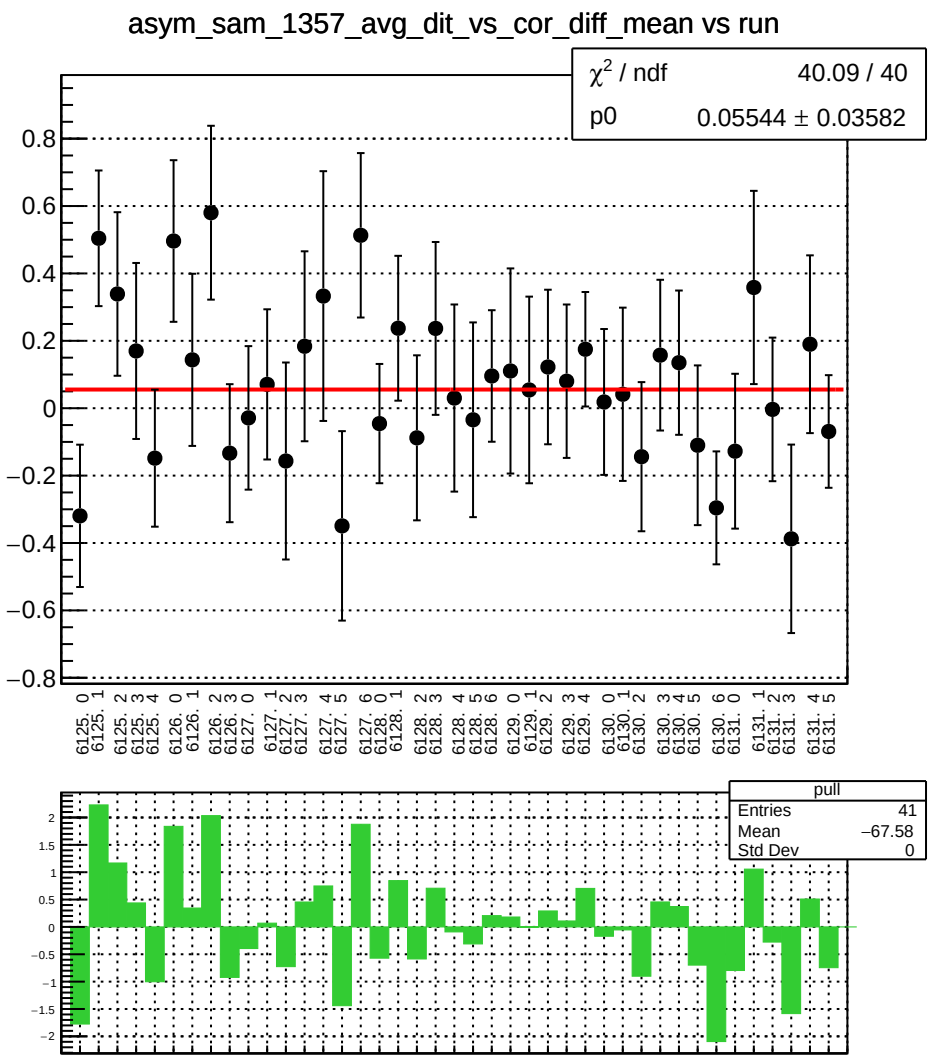

asym_sam_1357_avg_mean vs run
χ² / ndf 18.93 / 40
p0 623.5 ± 930.6
15000
10000
5000
0
−5000
−10000
−15000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6126. 4
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 175.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1

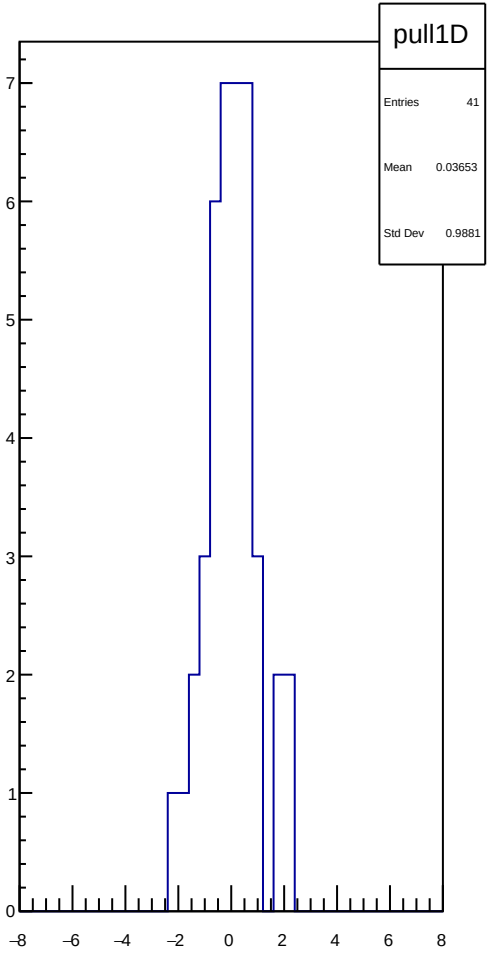

pull1D
Entries 41
Mean −0.008885
Std Dev 0.6795
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

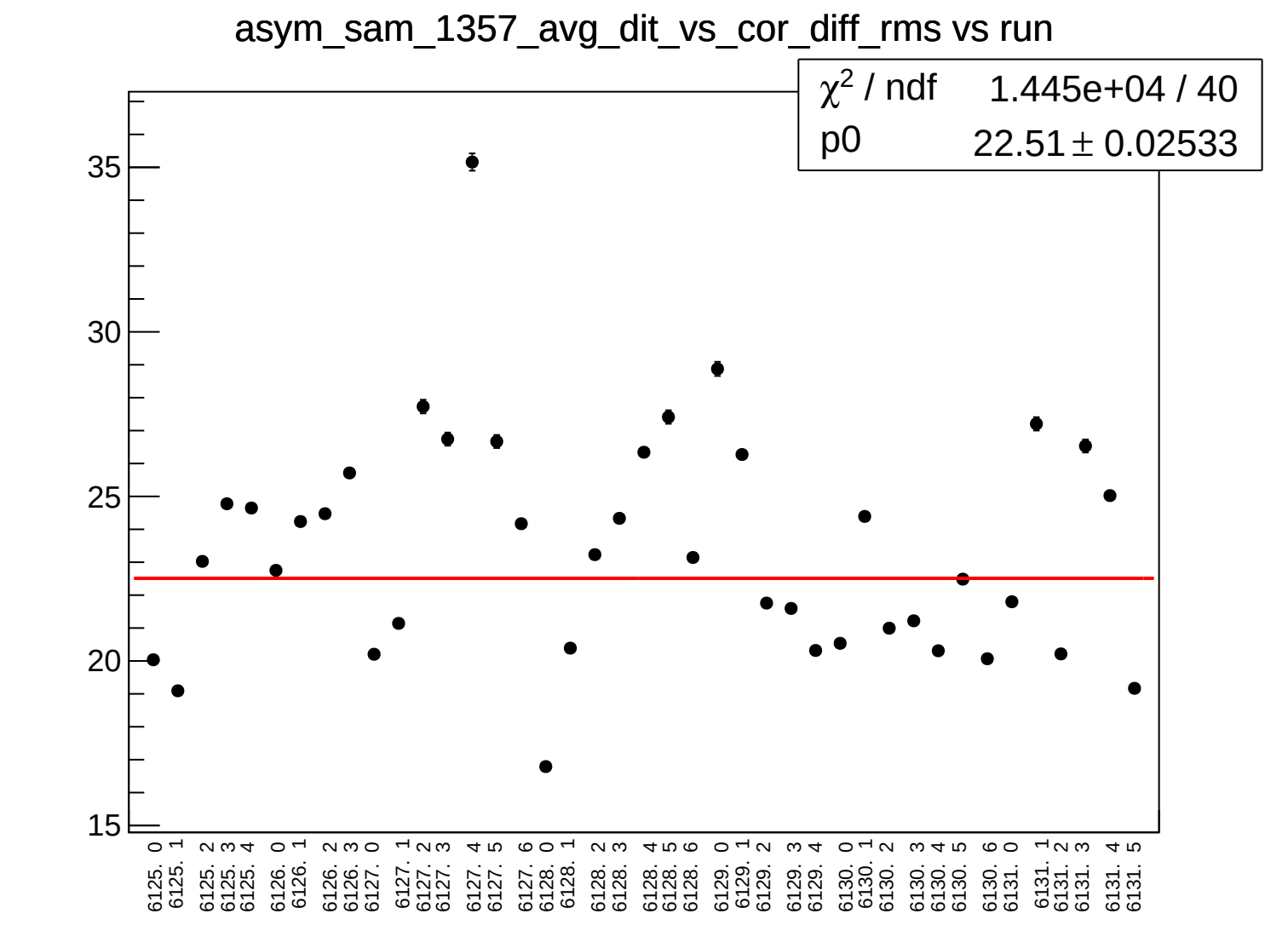

asym_sam_1357_avg_rms vs run
χ² / ndf 1444 / 40
p0 589.6 ± 0.6581
660
640
620
600
580
560
540
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

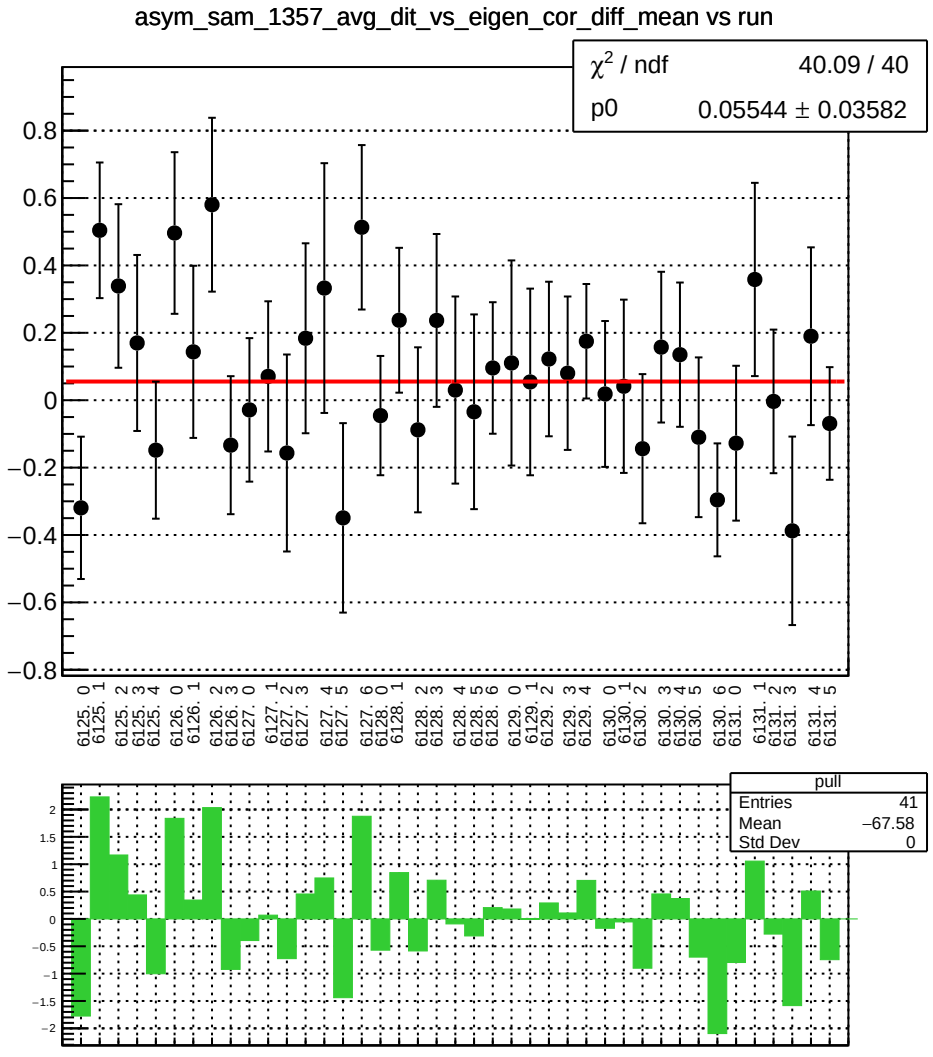

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 38.97 / 40
p0 1.664e−14 ± 4.541e−14
0.3
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 20.55
Std Dev 14.13
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.1243
Std Dev 0.967
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

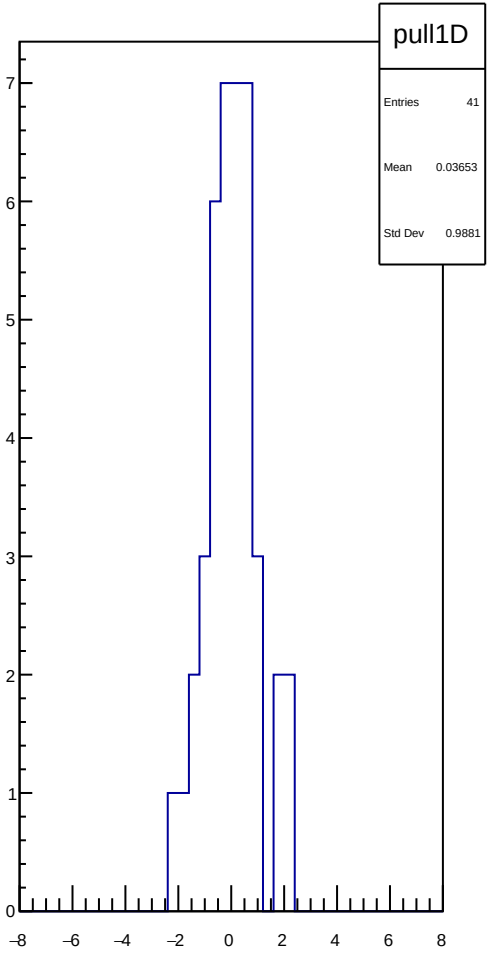

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.155e+05 / 40
p0 2.464e−11 ± 3.211e−14
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

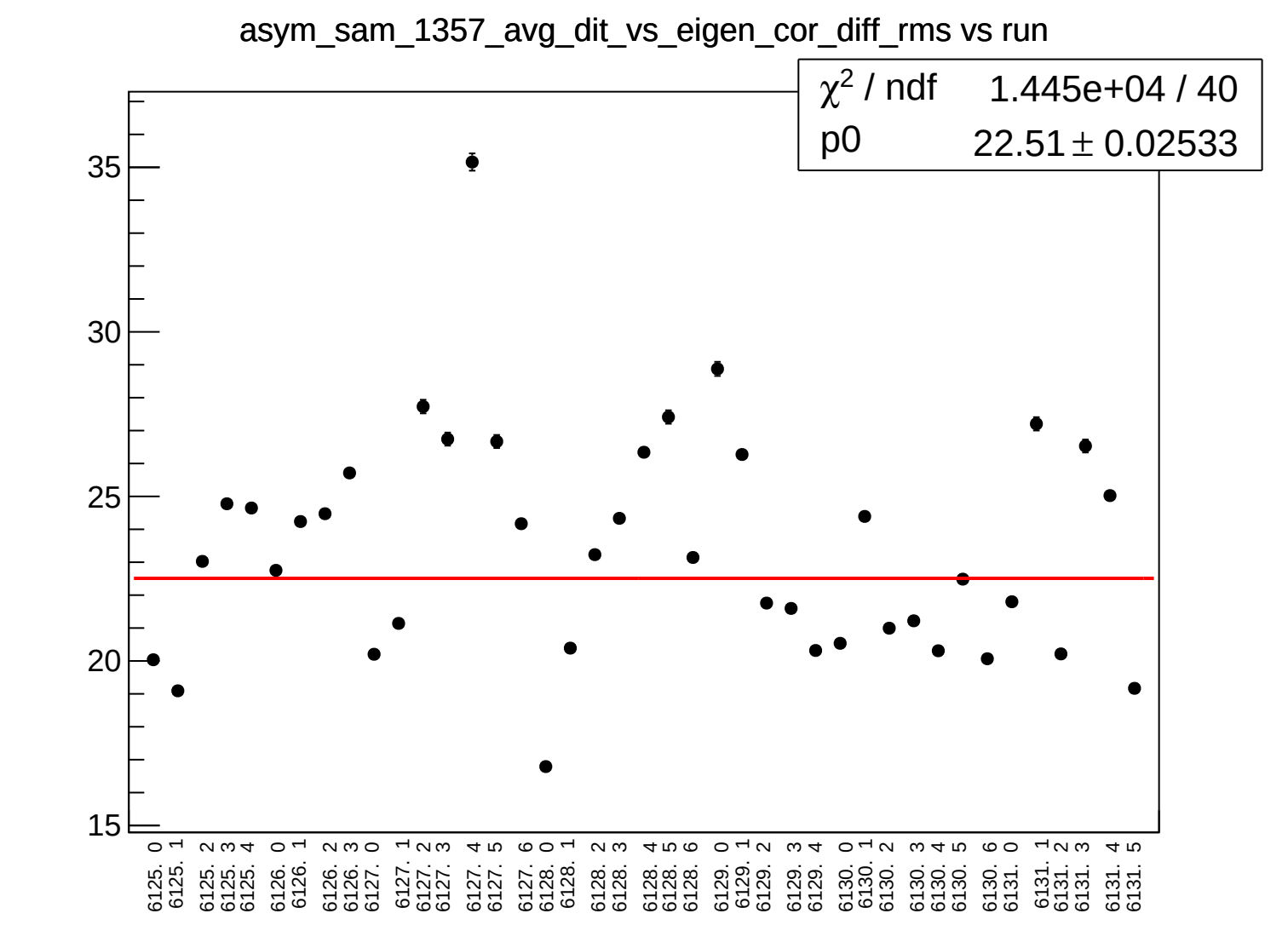

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 40.09 / 40
p0 0.05544 ± 0.03582
pull
Entries 41
Mean −67.58
Std Dev 0

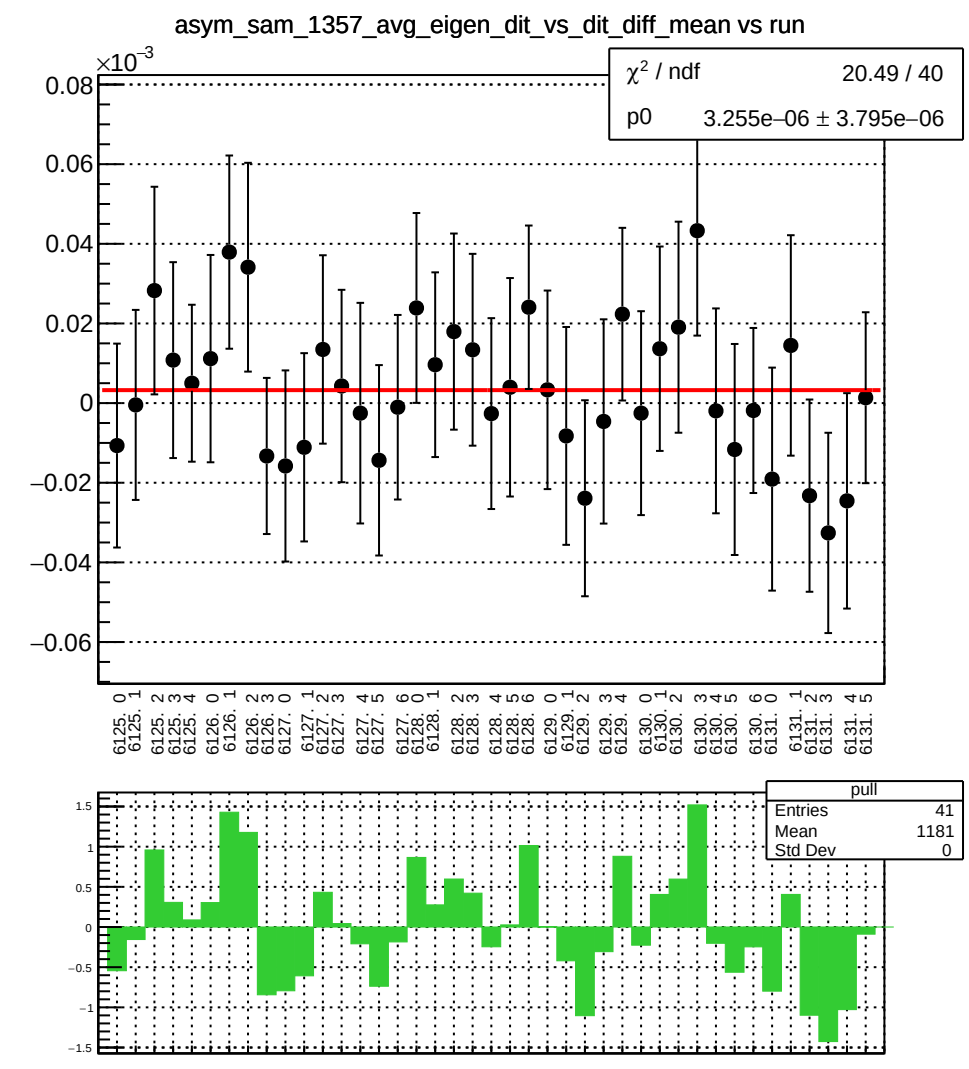

pull1D
Entries 41
Mean 0.03653
Std Dev 0.9881

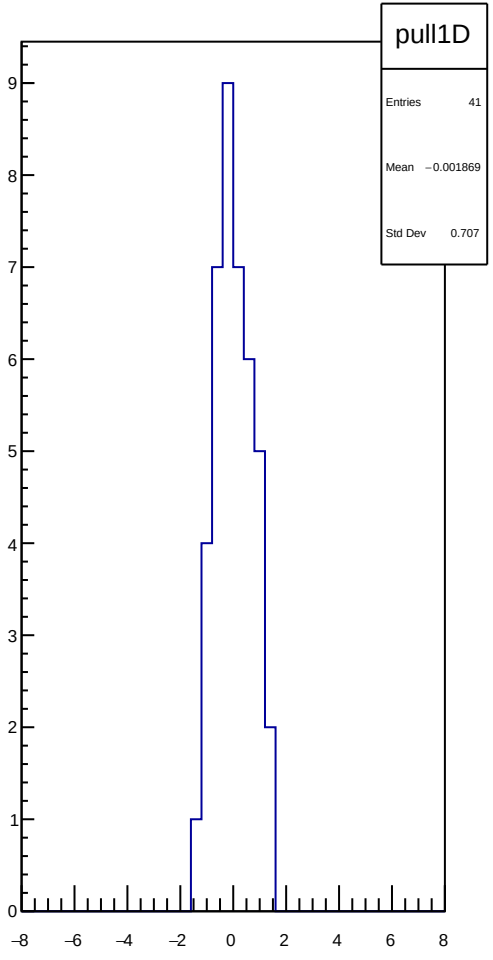

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.445e+04 / 40
p0 22.51 ± 0.02533
35
30
25
20
15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

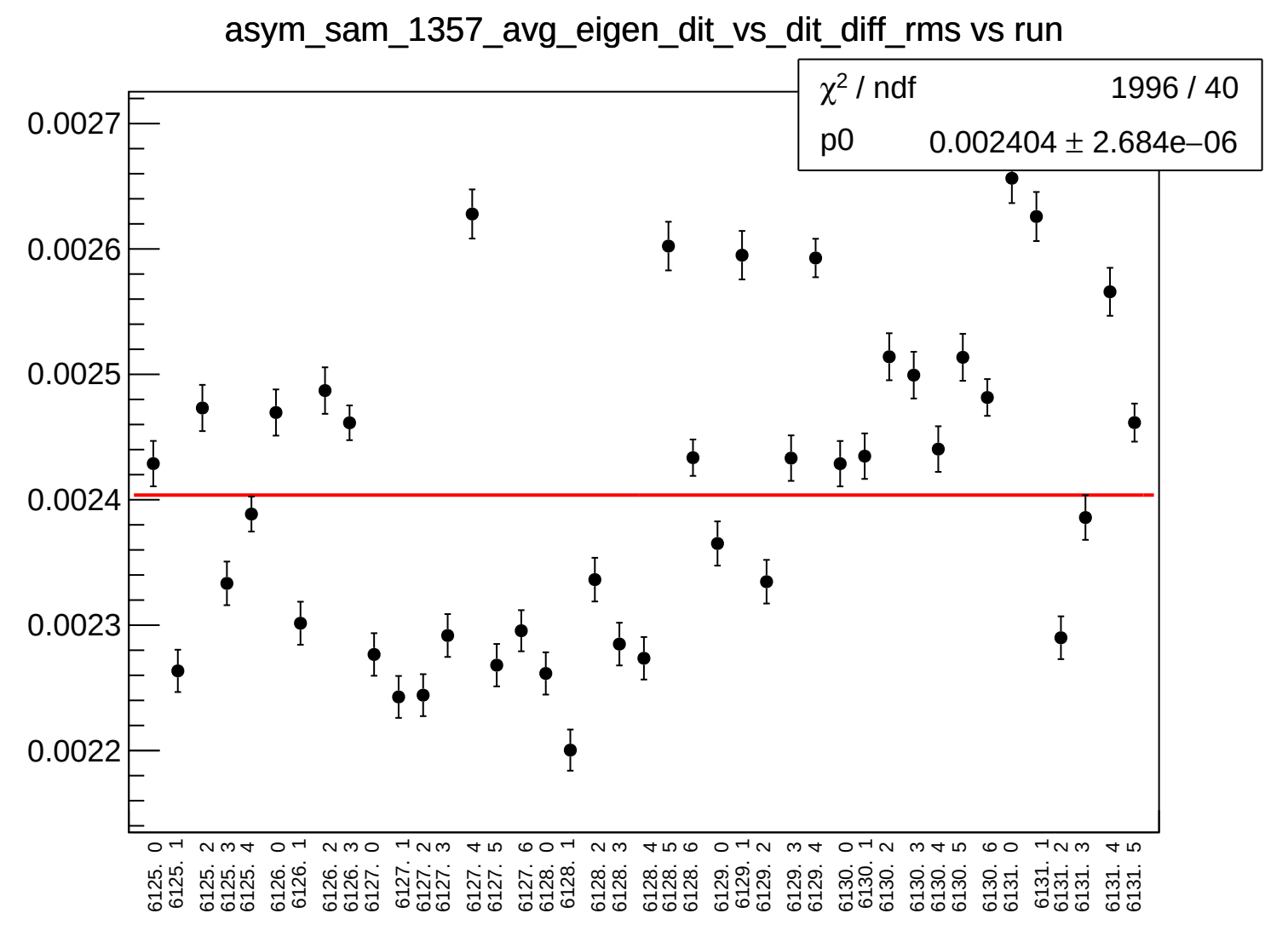

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.09 / 40
p0 0.05544 ± 0.03582
pull
Entries 41
Mean −67.58
Std Dev 0

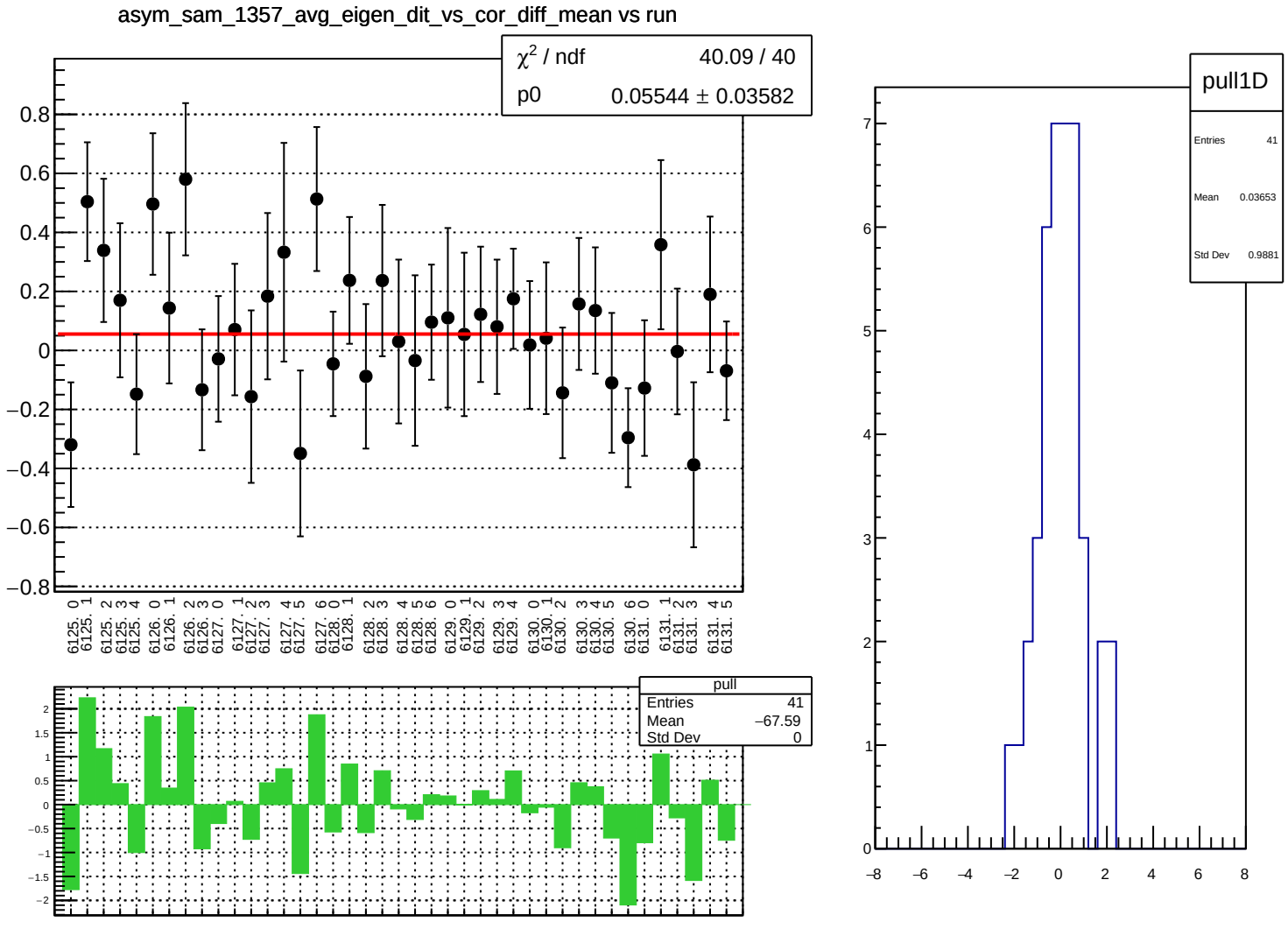

pull1D
Entries 41
Mean 0.03653
Std Dev 0.9881

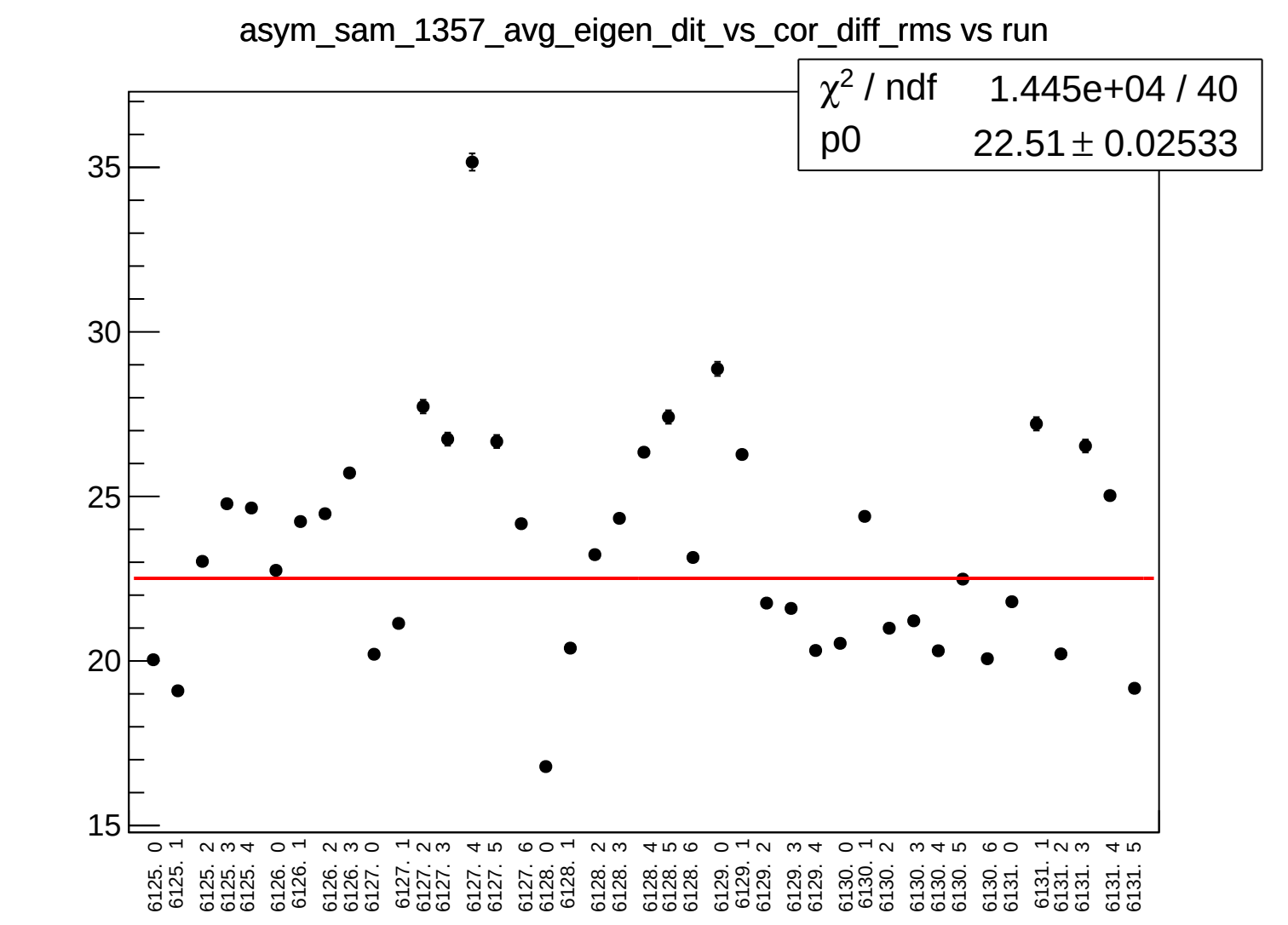

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.445e+04 / 40
p0 22.51 ± 0.02533
35
30
25
20
15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

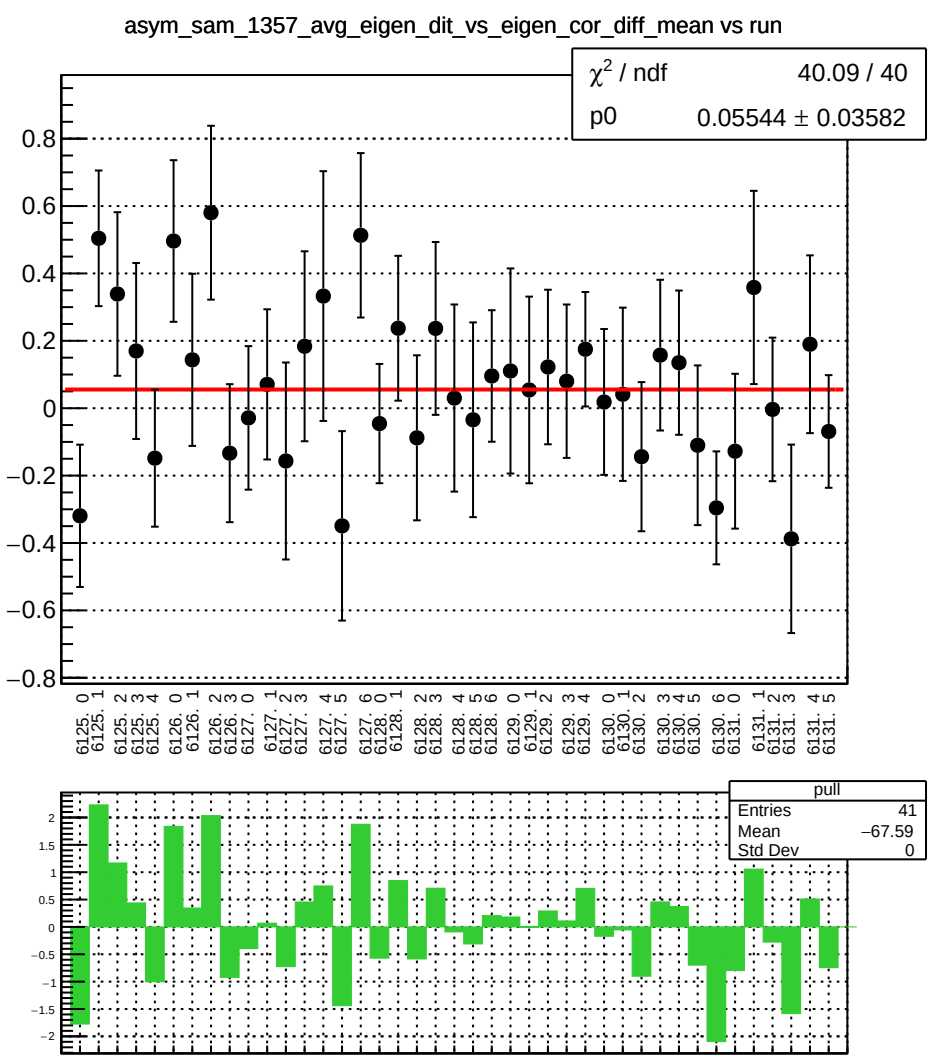

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 20.49 / 40
p0 3.255e−06 ± 3.795e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1181
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

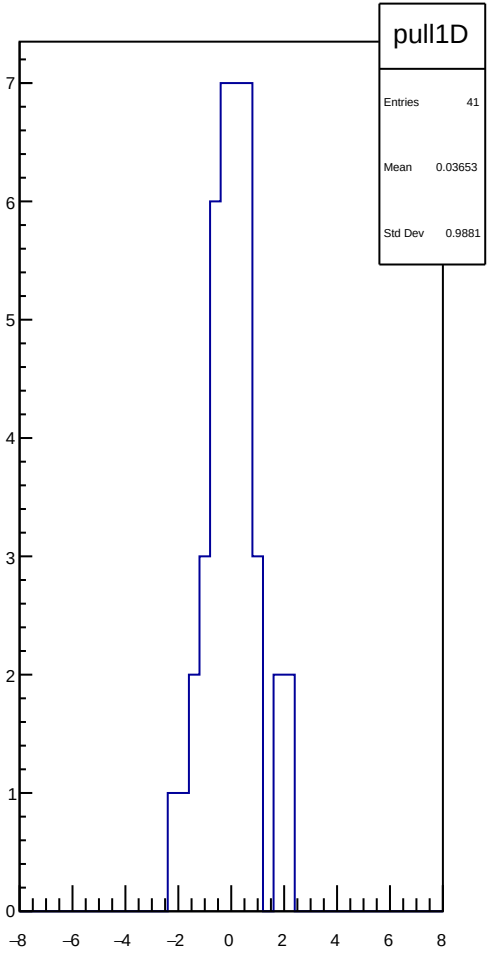

pull1D
Entries 41
Mean −0.001869
Std Dev 0.707
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

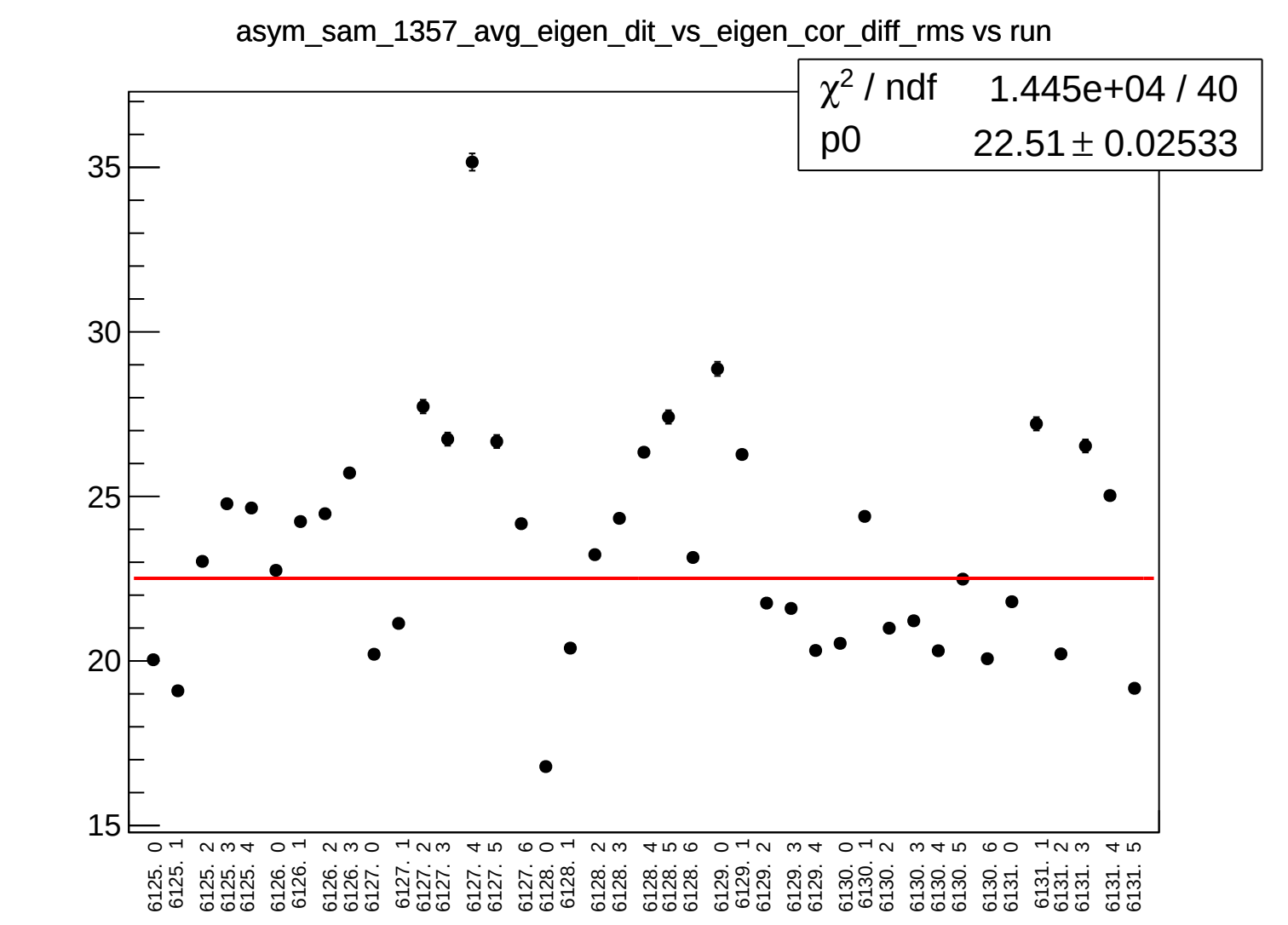

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1996 / 40
p0 0.002404 ± 2.684e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

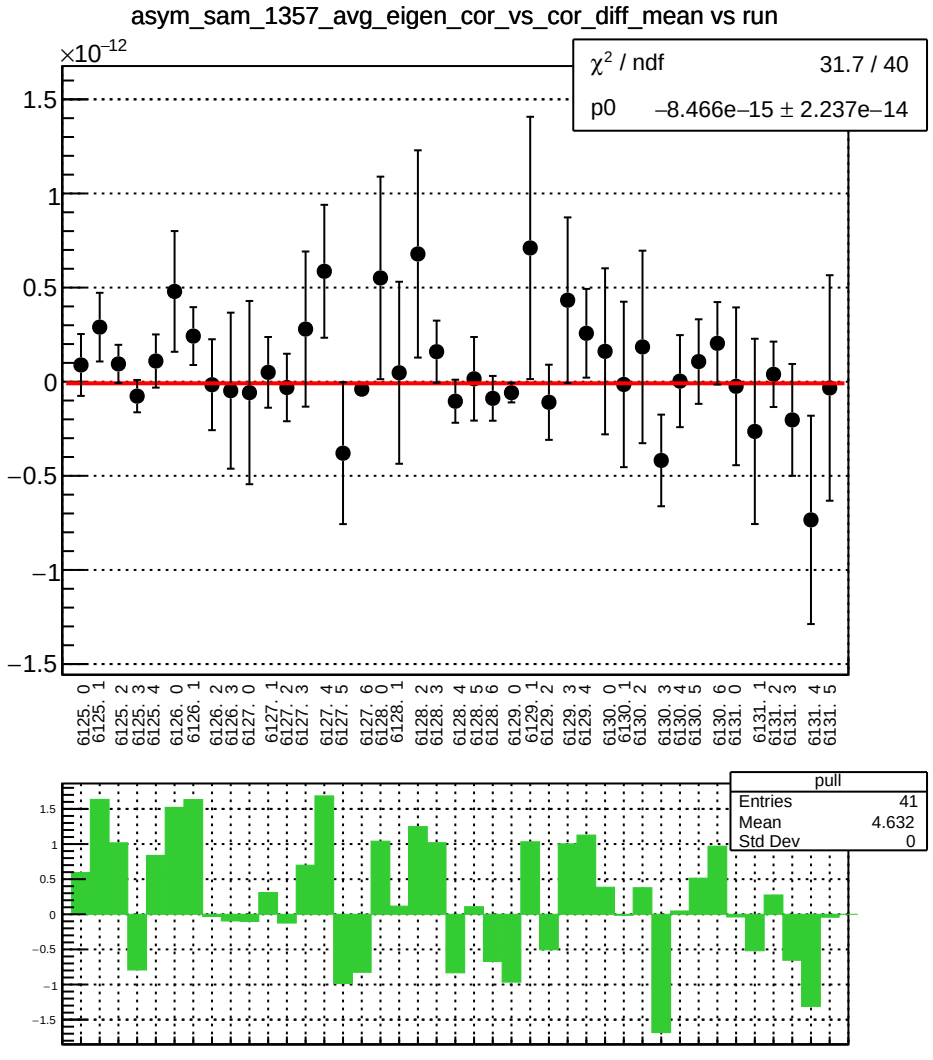

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 40.09 / 40
p0 0.05544 ± 0.03582
pull
Entries 41
Mean −67.59
Std Dev 0
pull1D
Entries 41
Mean 0.03653
Std Dev 0.9881

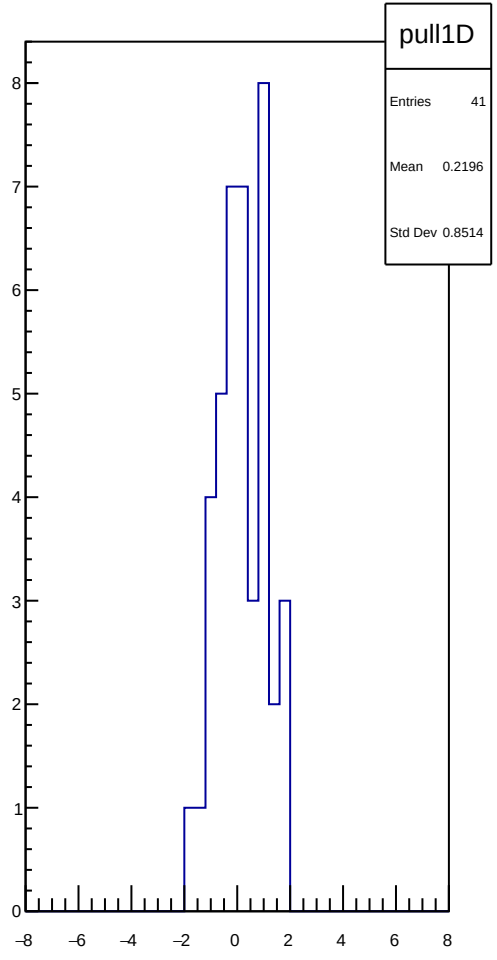

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.445e+04 / 40
p0 22.51 ± 0.02533
35
30
25
20
15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

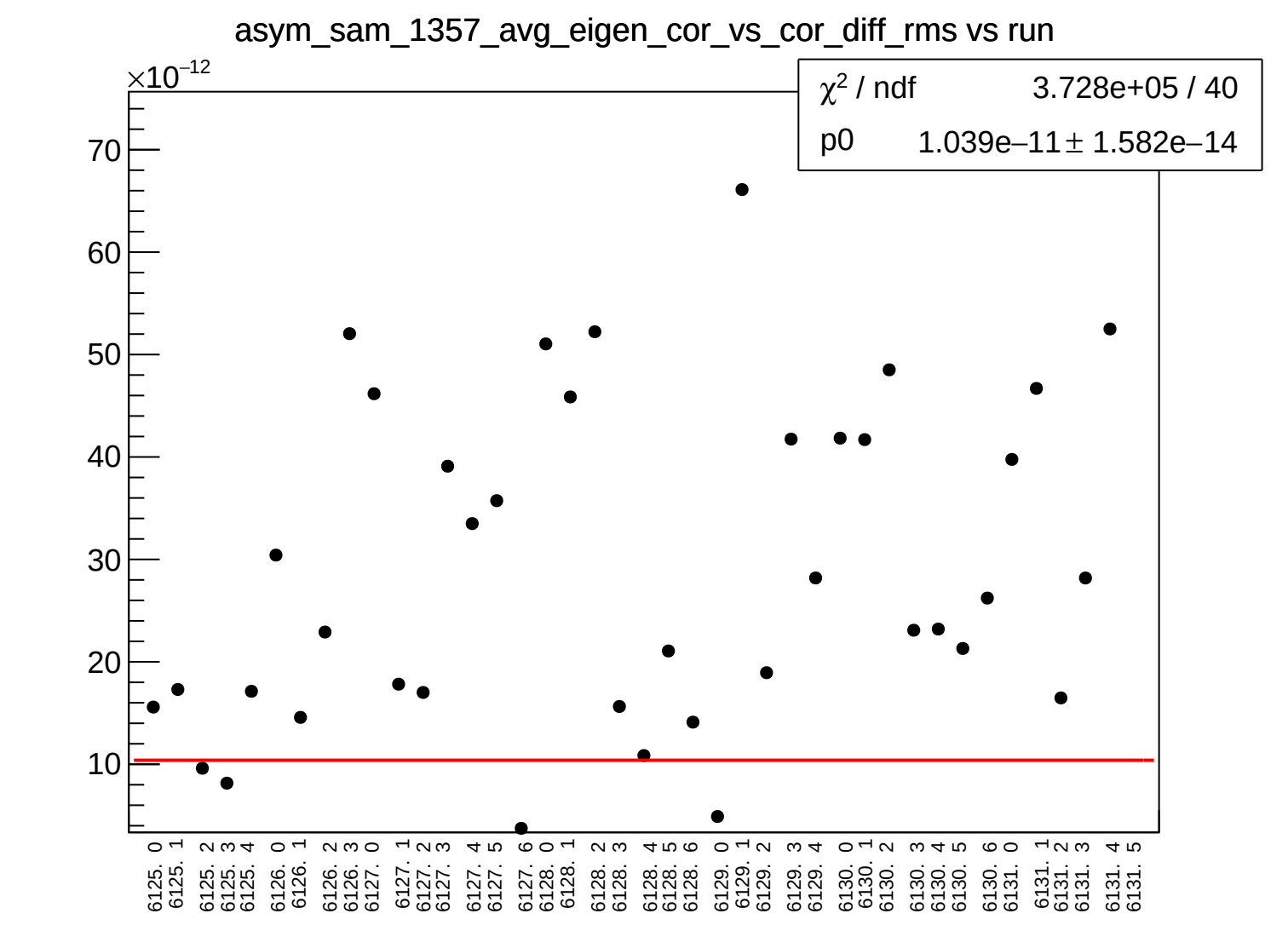

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.09 / 40
p0 0.05544 ± 0.03582
pull
Entries 41
Mean −67.59
Std Dev 0

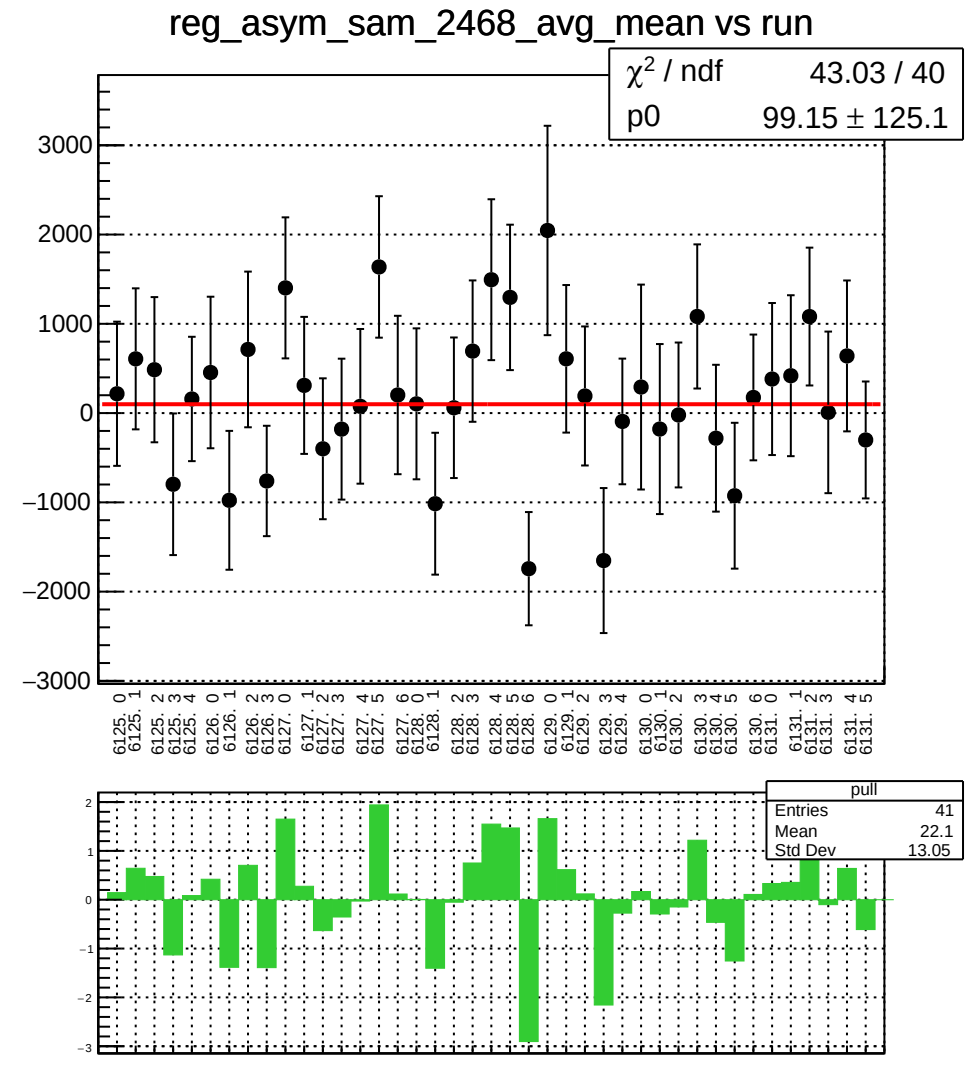

pull1D
Entries 41
Mean 0.03653
Std Dev 0.9881

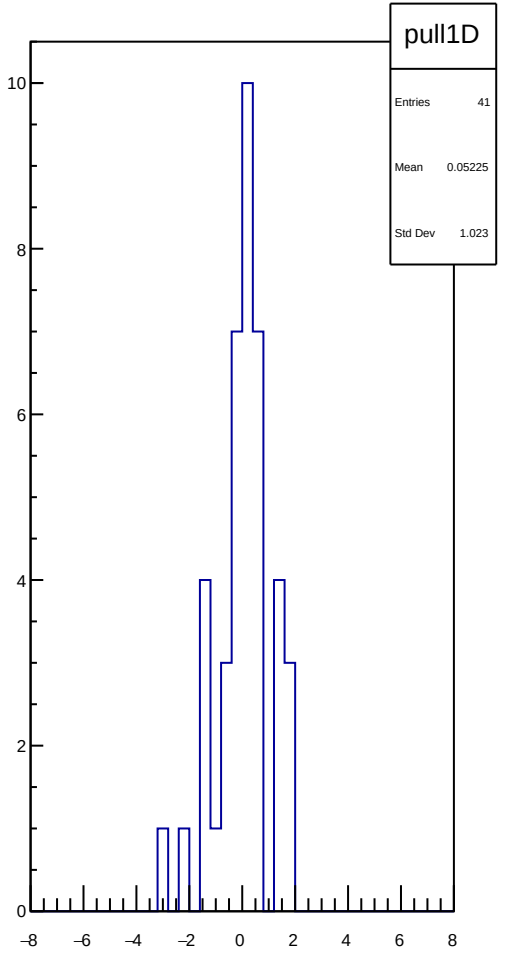

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.445e+04 / 40
p0 22.51 ± 0.02533
35
30
25
20
15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

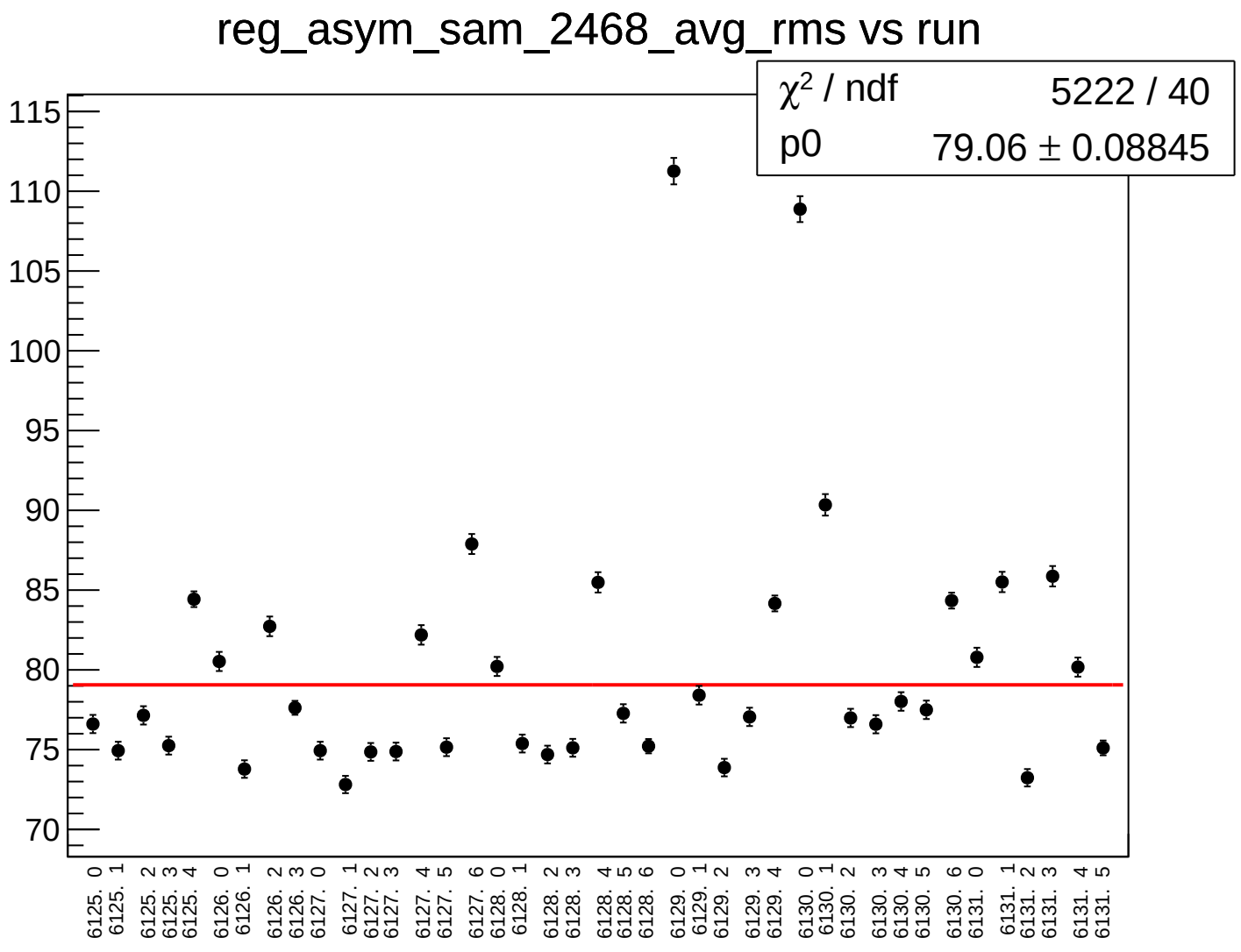

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 31.7 / 40
p0 −8.466e−15 ± 2.237e−14
pull
Entries 41
Mean 4.632
Std Dev 0

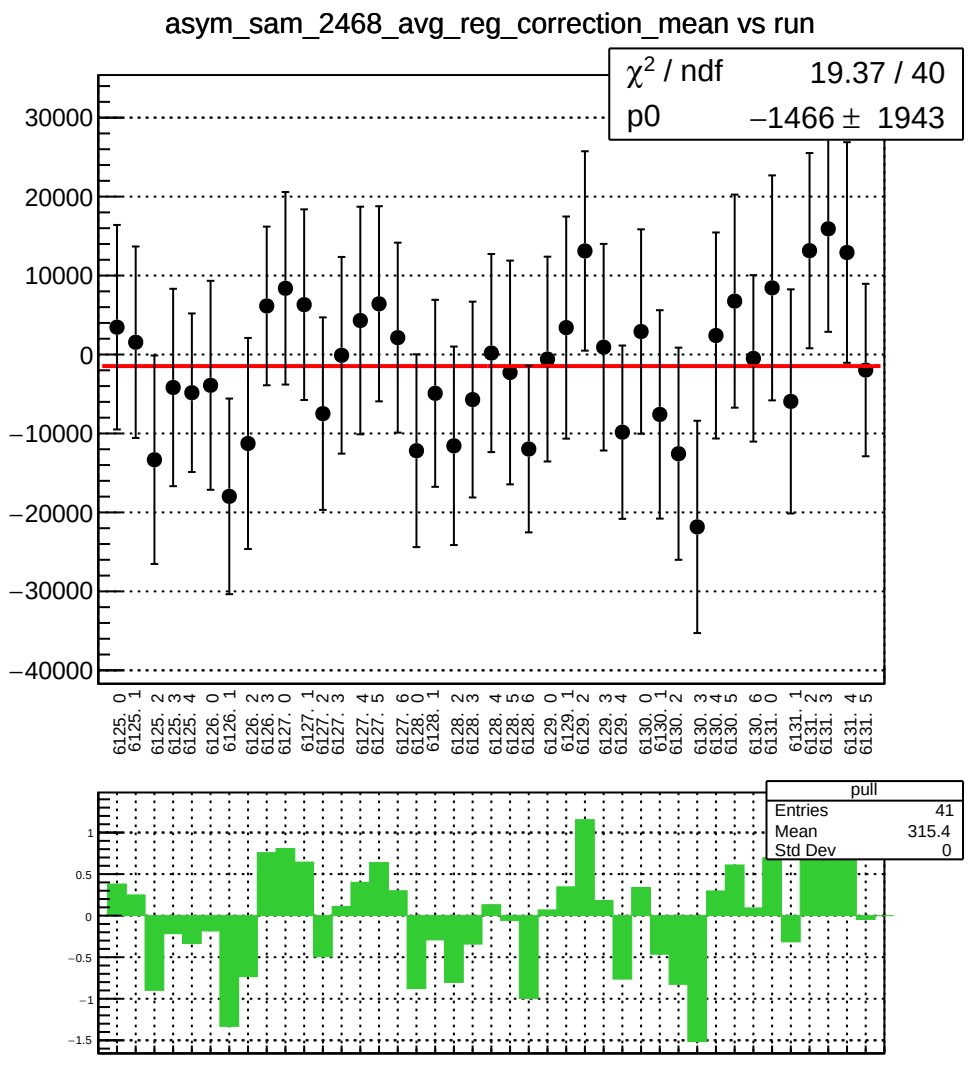

pull1D
Entries 41
Mean 0.2196
Std Dev 0.8514

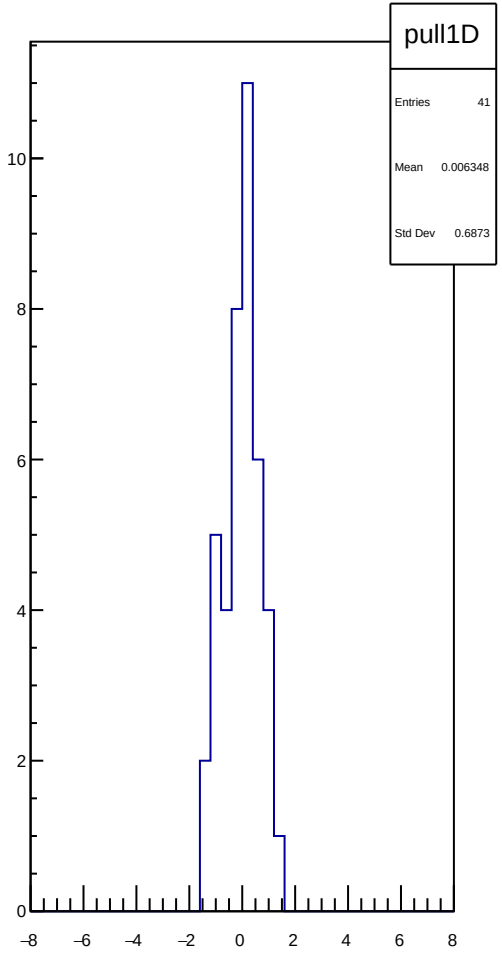

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.728e+05 / 40
p0 1.039e−11 ± 1.582e−14
70
60
50
40
30
20
10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

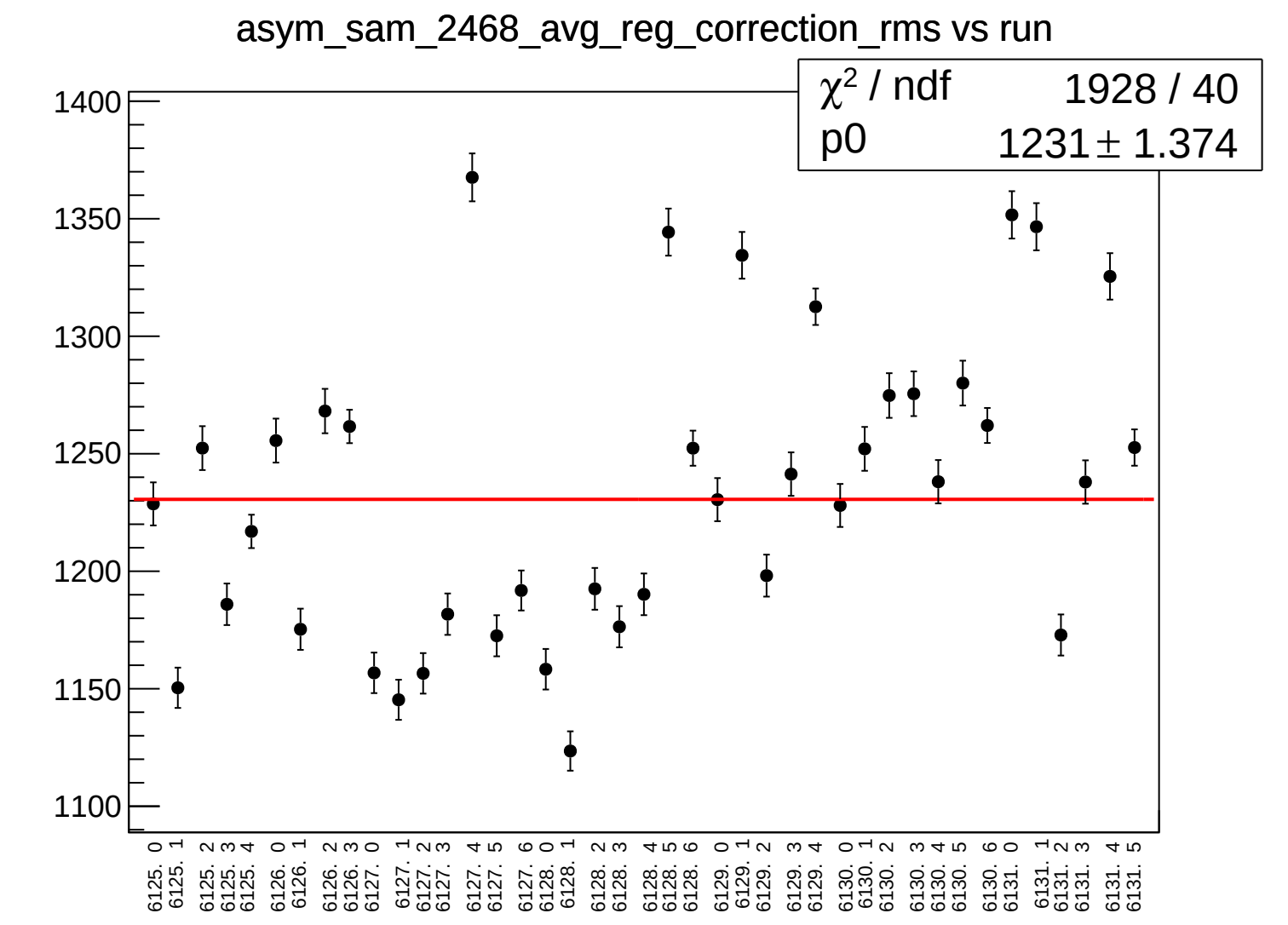

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 43.03 / 40
p0 99.15 ± 125.1
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 22.1
Std Dev 13.05
2
1
0
−1
−2
−3

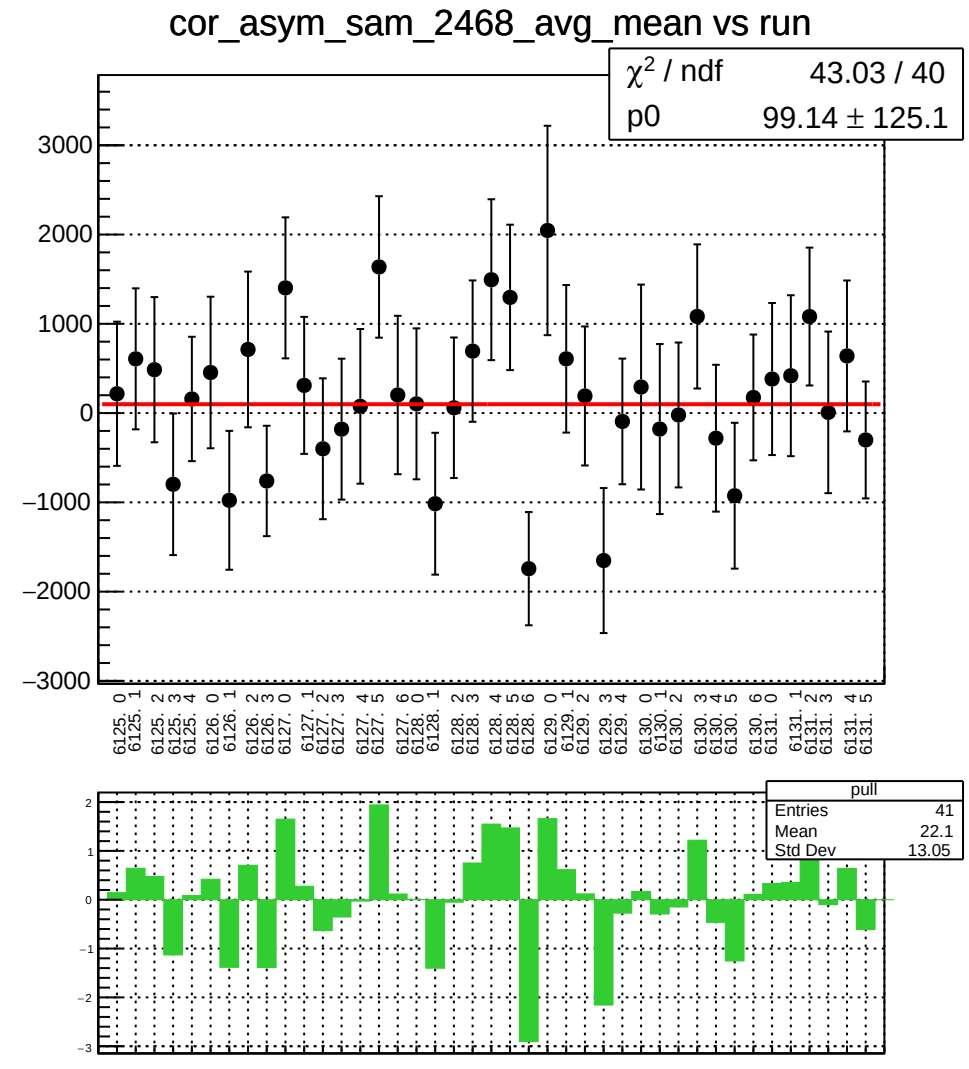

pull1D
Entries 41
Mean 0.05225
Std Dev 1.023
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

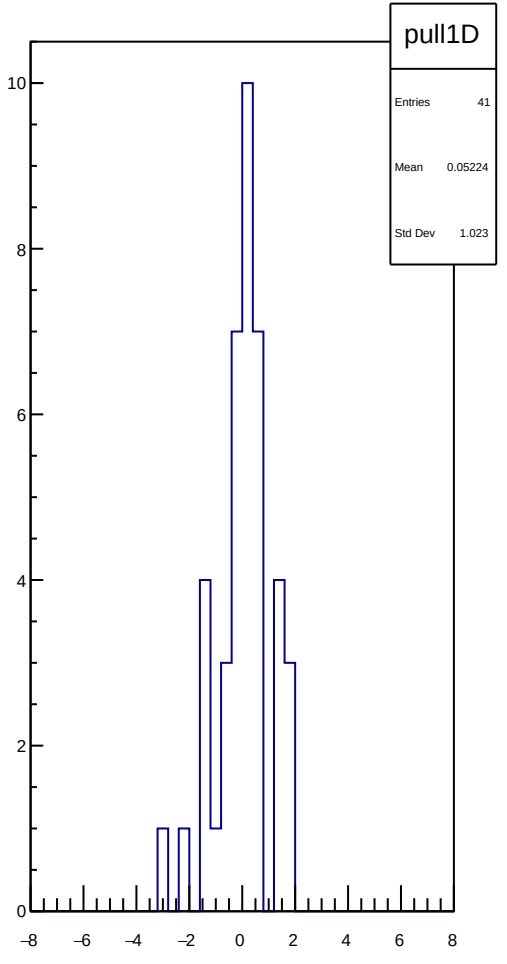

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 5222 / 40
p0 79.06 ± 0.08845
115
110
105
100
95
90
85
80
75
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

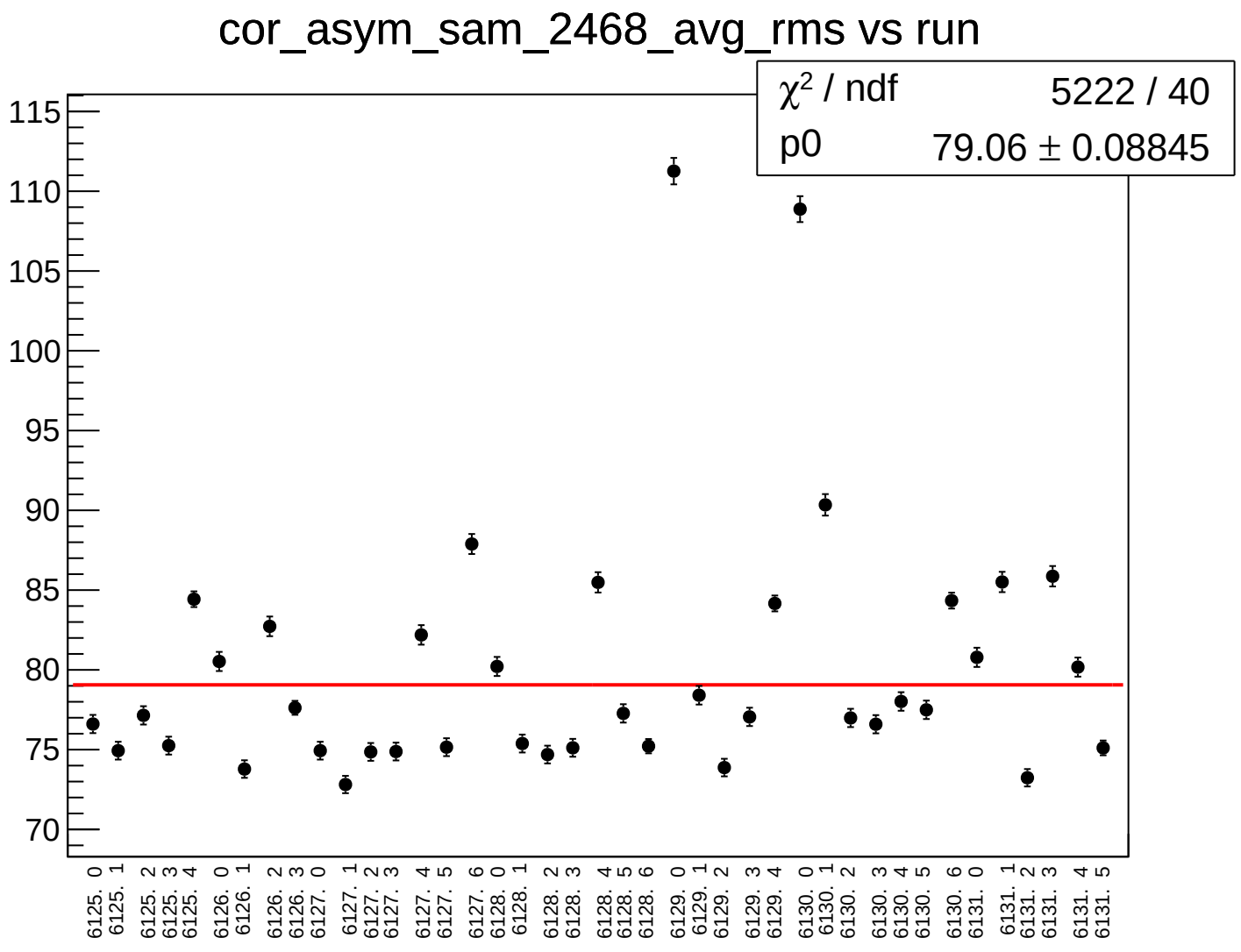

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 19.37 / 40
p0 −1466 ± 1943
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 315.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

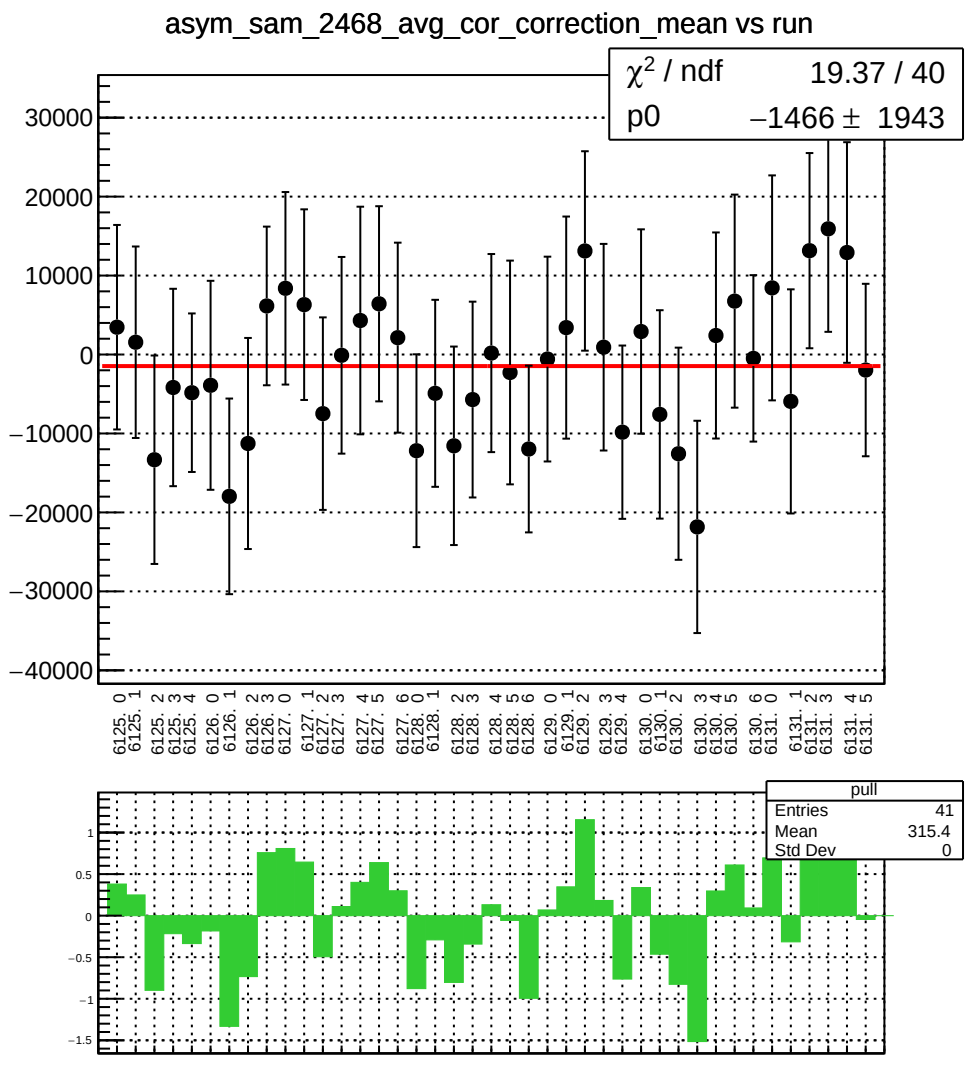

pull1D
Entries 41
Mean 0.006348
Std Dev 0.6873
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

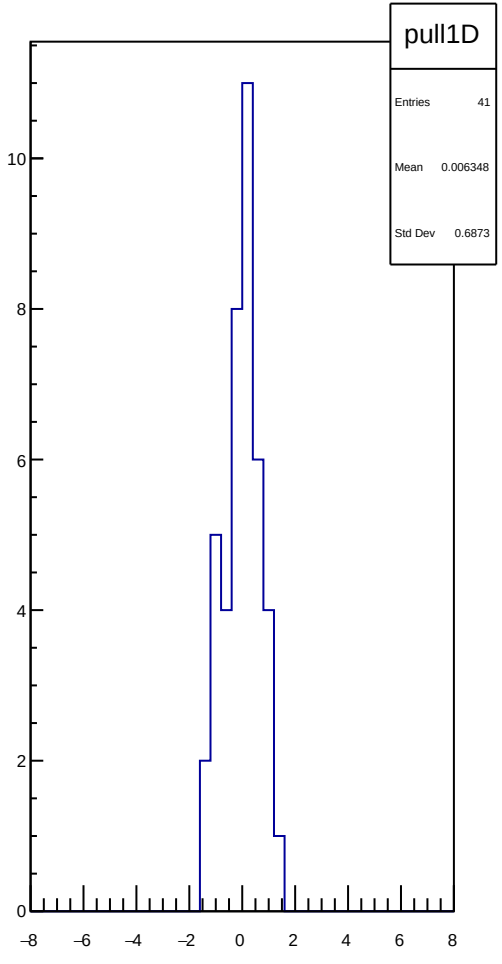

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 1928 / 40
p0 1231 ± 1.374
1400
1350
1300
1250
1200
1150
1100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

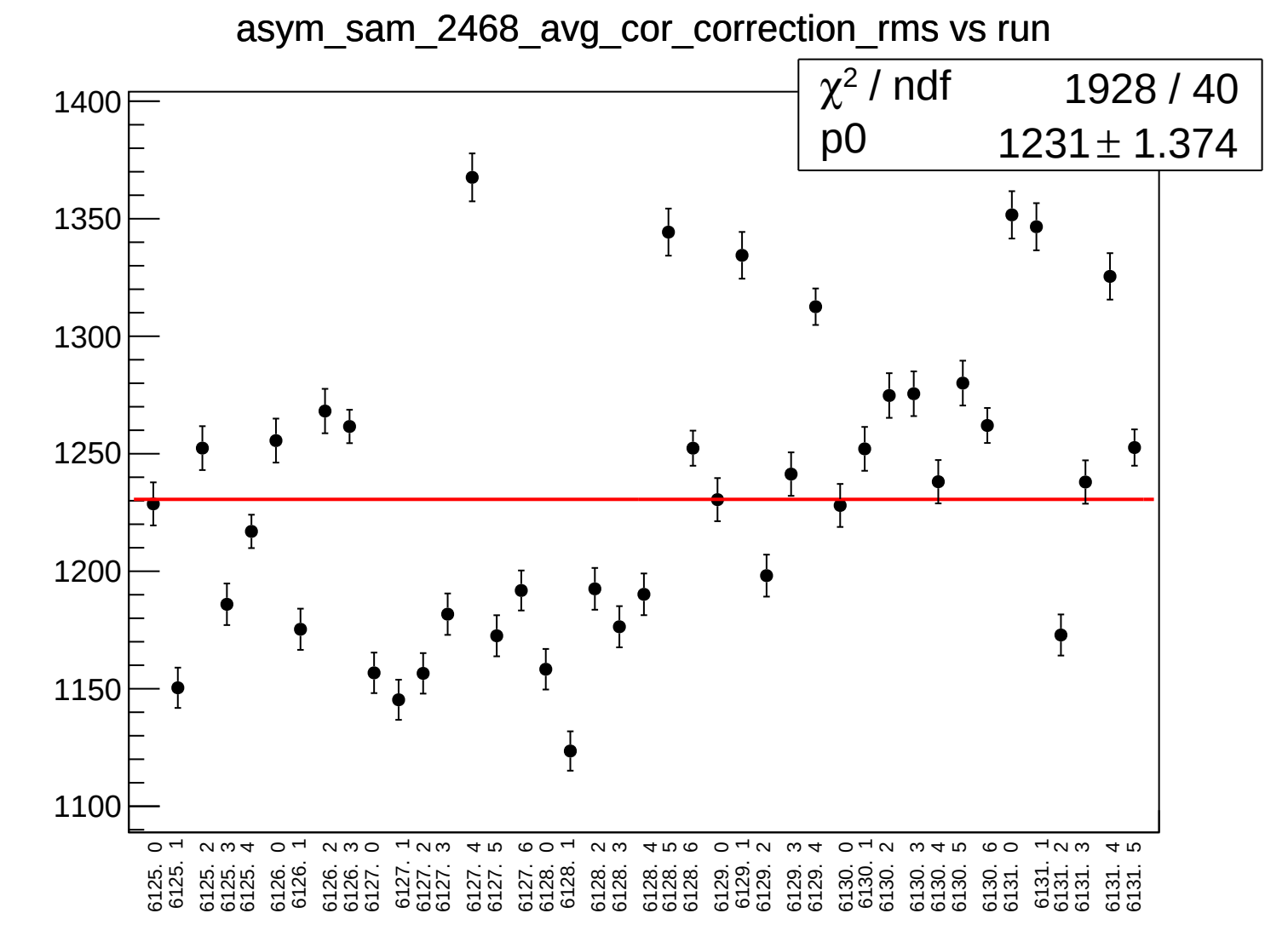

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 43.03 / 40
p0 99.14 ± 125.1
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 22.1
Std Dev 13.05
2
1
0
−1
−2
−3

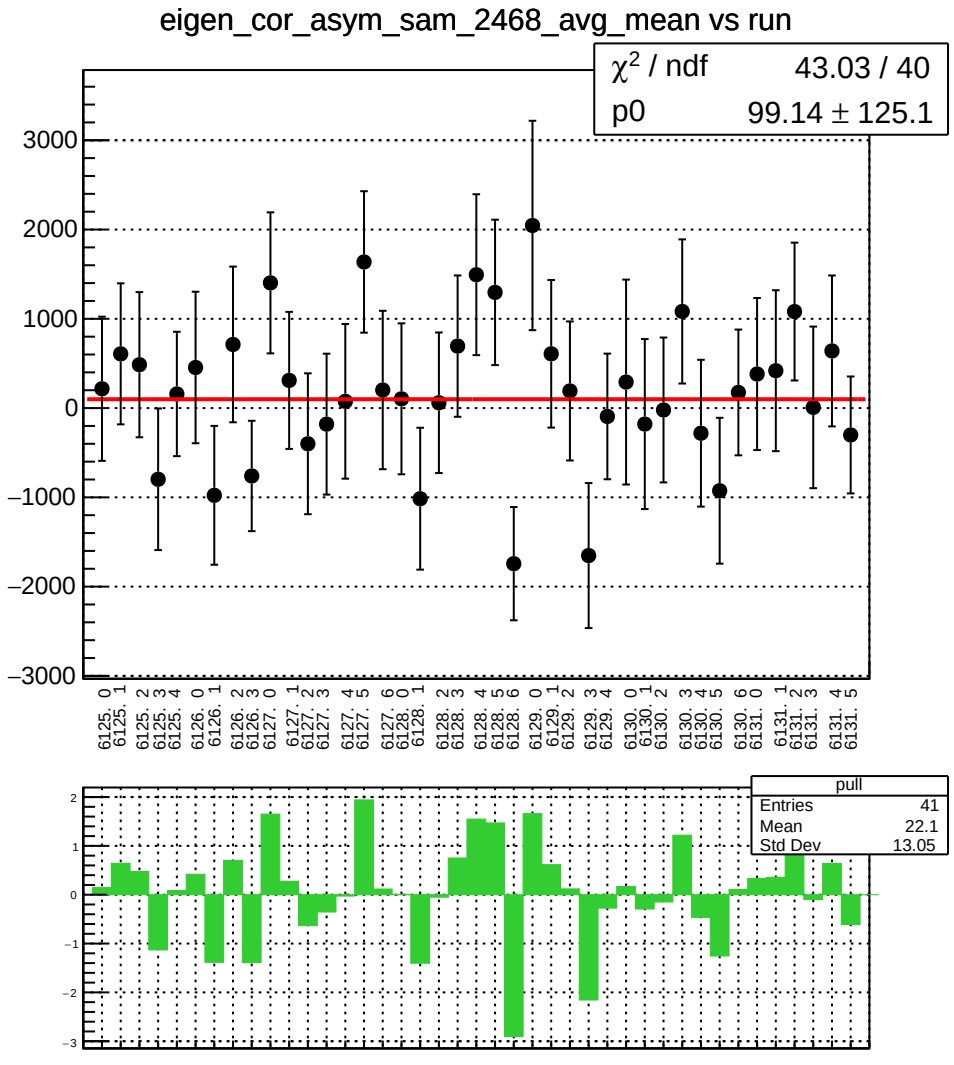

pull1D
Entries 41
Mean 0.05224
Std Dev 1.023
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

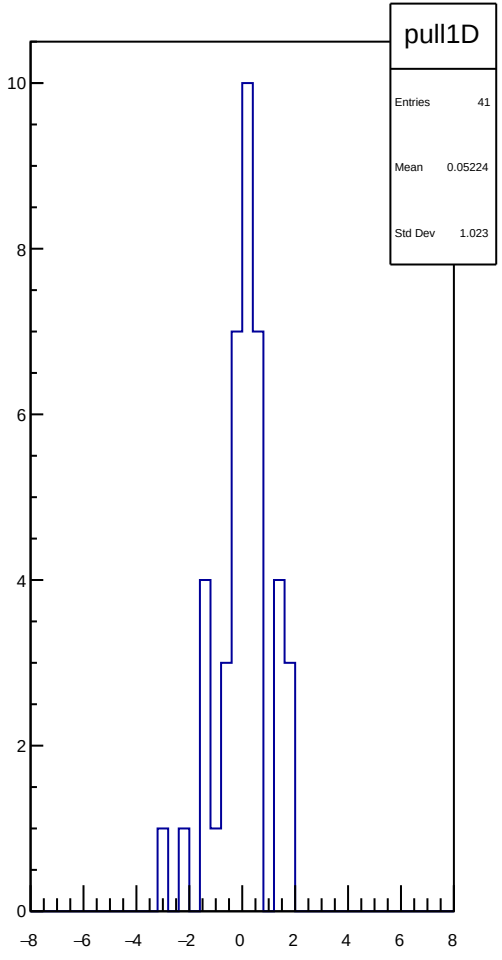

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 5222 / 40
p0 79.06 ± 0.08845
115
110
105
100
95
90
85
80
75
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

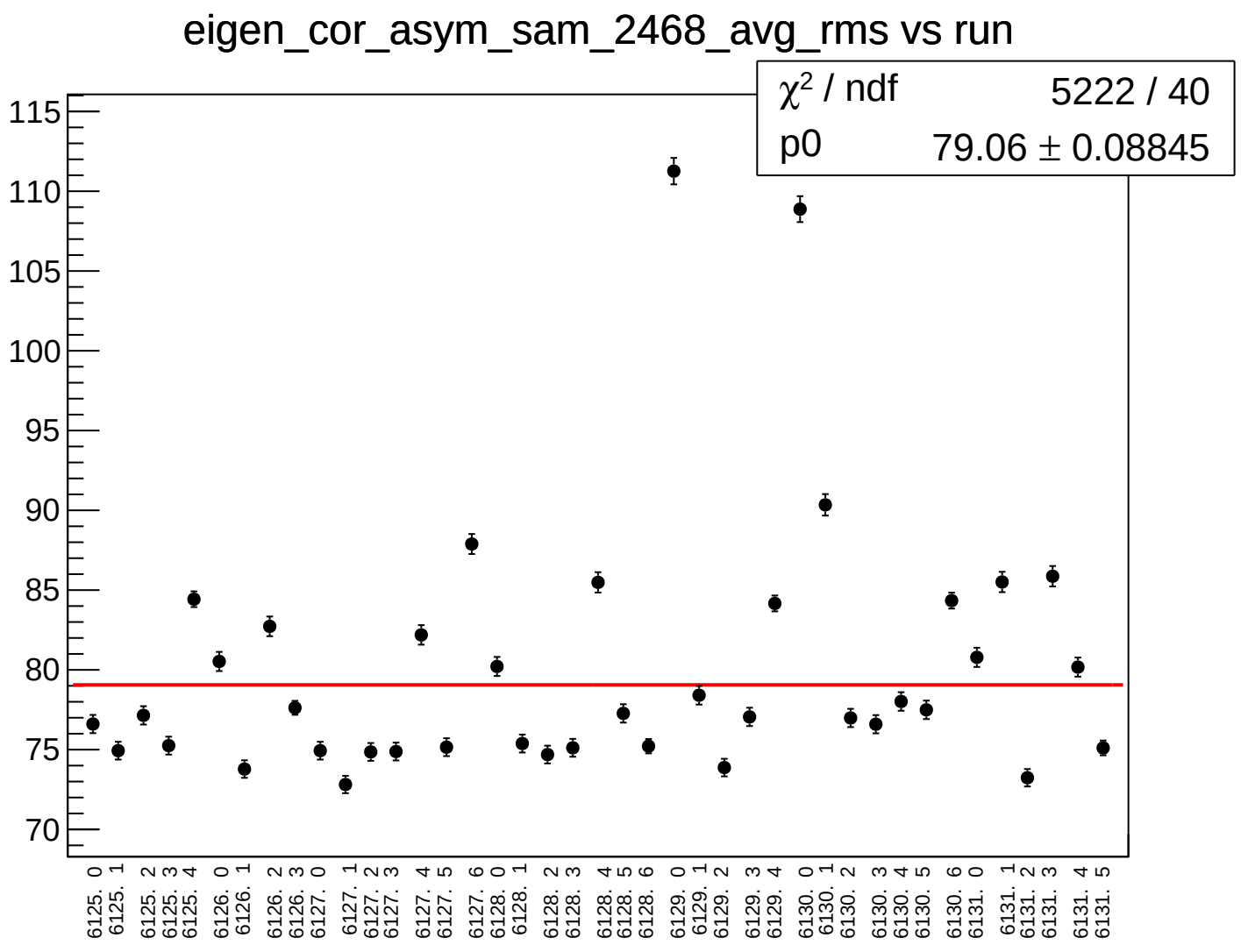

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 19.37 / 40
p0 −1466 ± 1943
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 315.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.006348
Std Dev 0.6873
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 1928 / 40
p0 1231 ± 1.374
1400
1350
1300
1250
1200
1150
1100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 43.03 / 40
p0 99.14 ± 125.1
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 22.1
Std Dev 13.05
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean 0.05224
Std Dev 1.023
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 5222 / 40
p0 79.06 ± 0.08845
115
110
105
100
95
90
85
80
75
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
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6128. 6
6129. 0
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6130. 0
6130. 1
6130. 2
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6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
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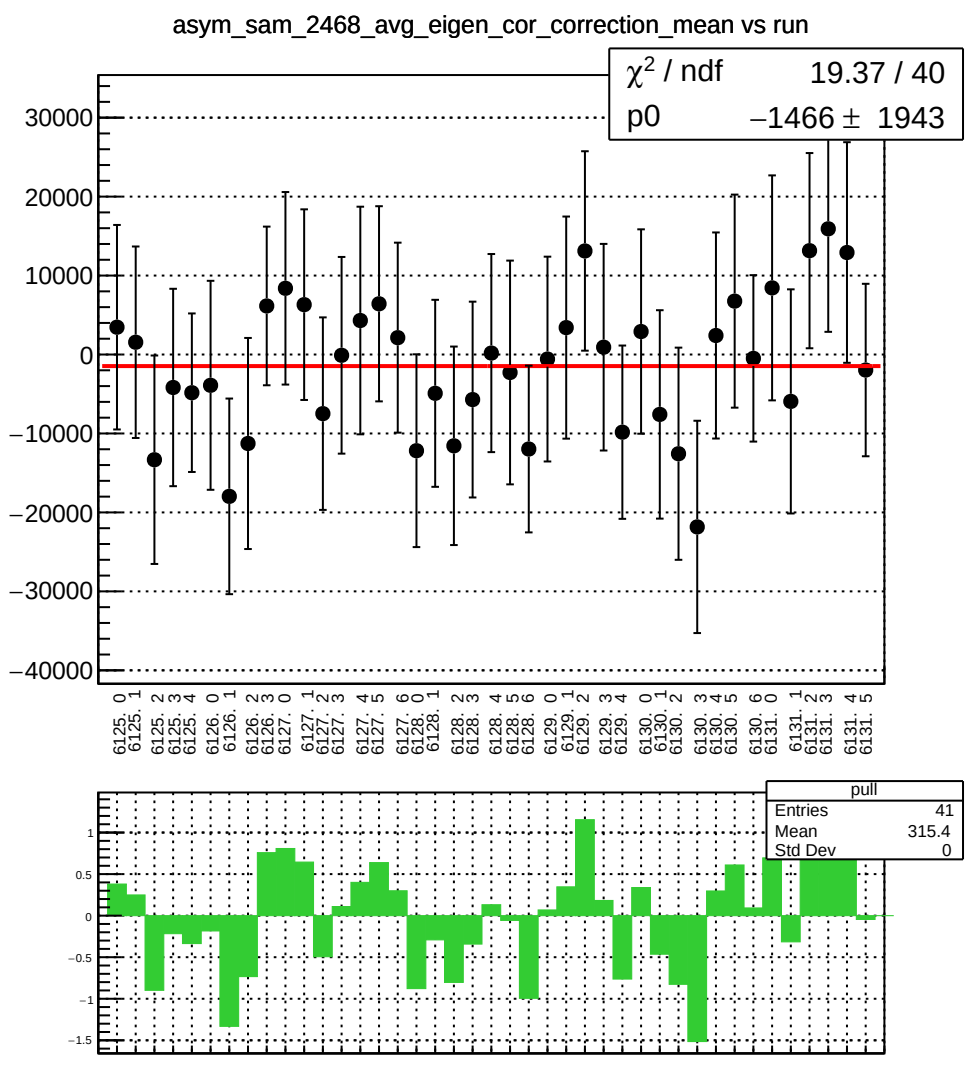
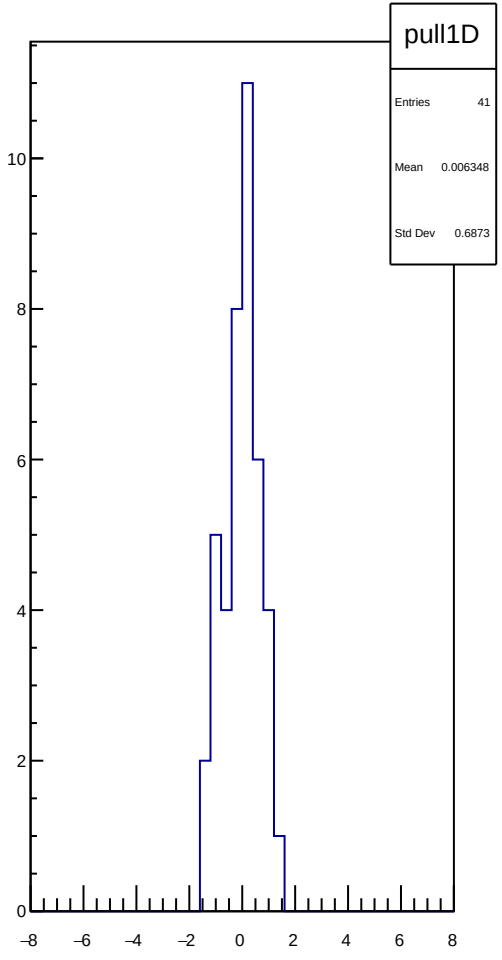
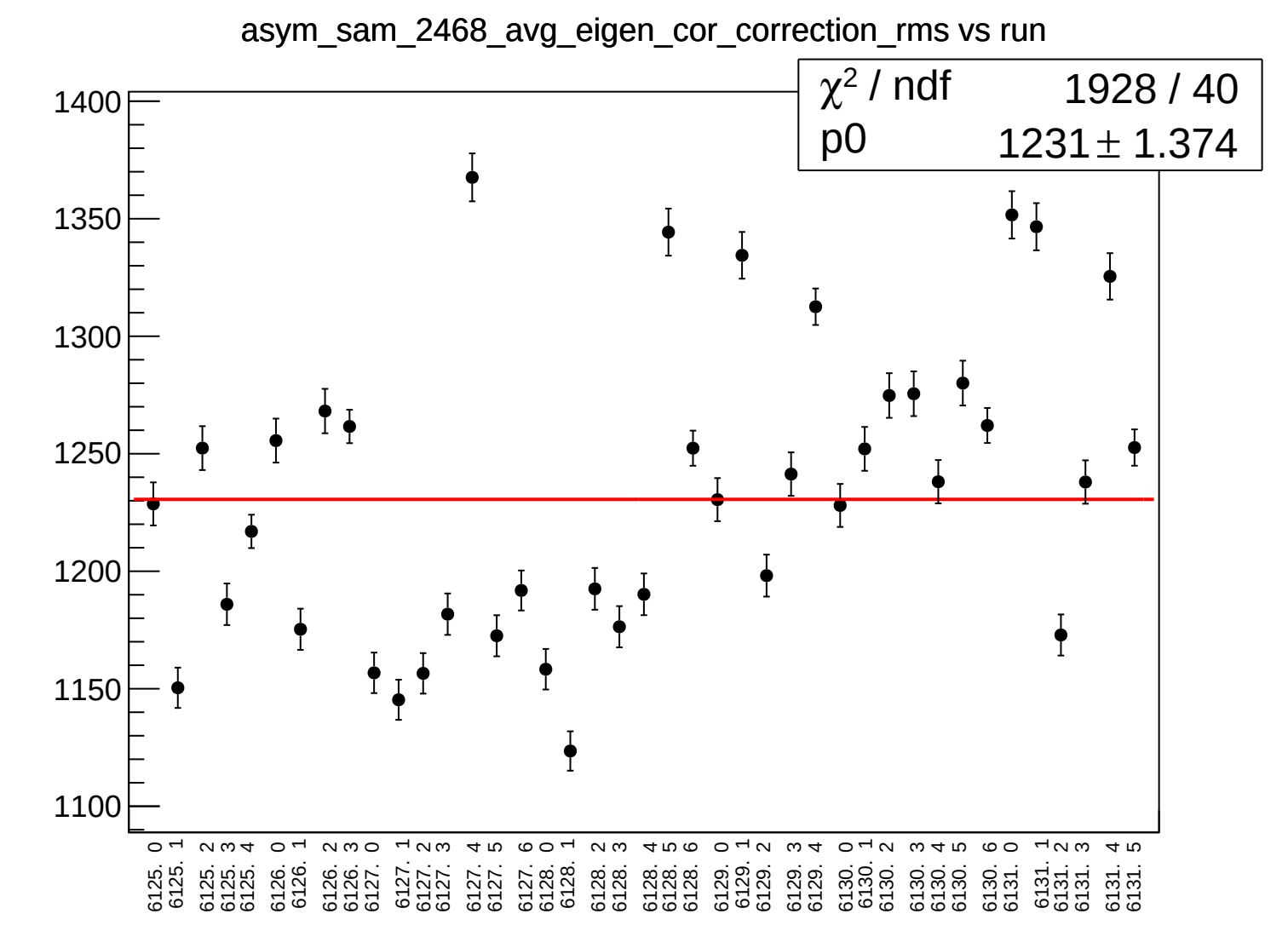
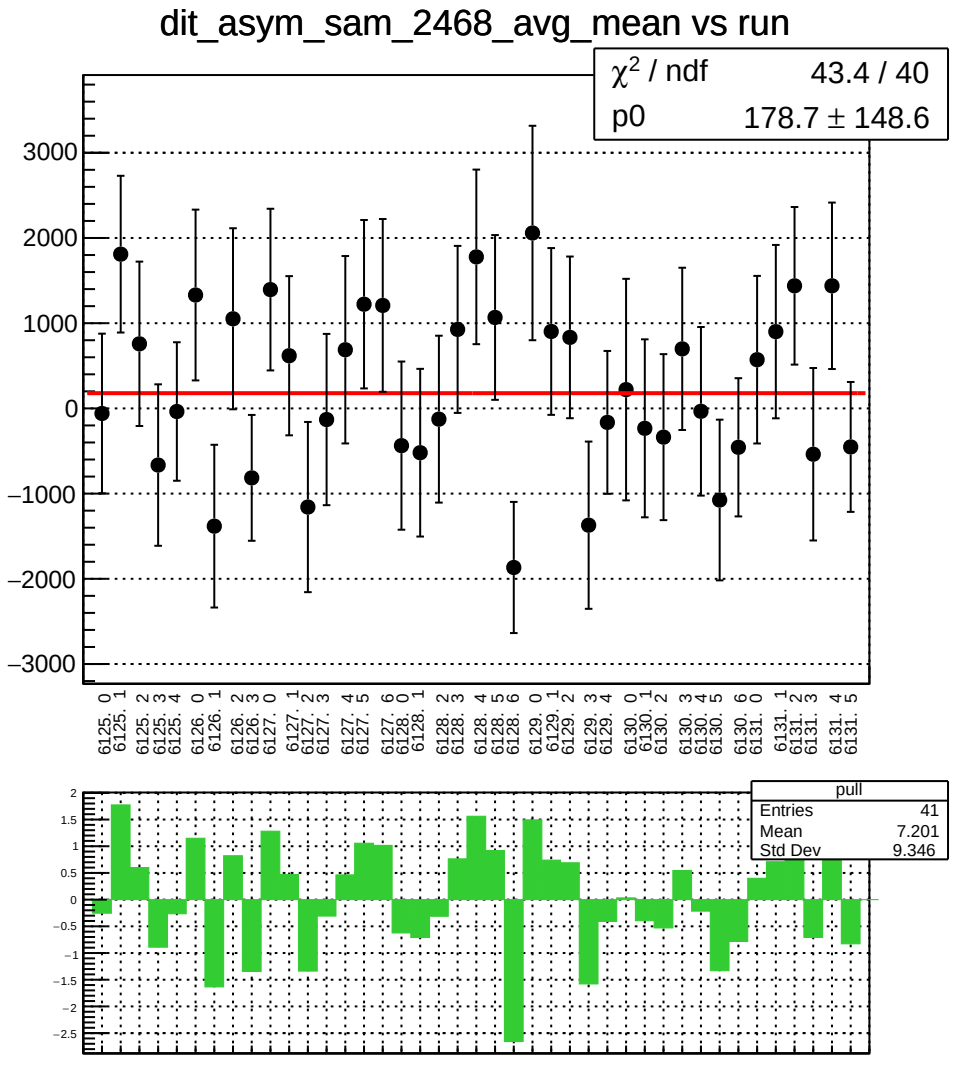
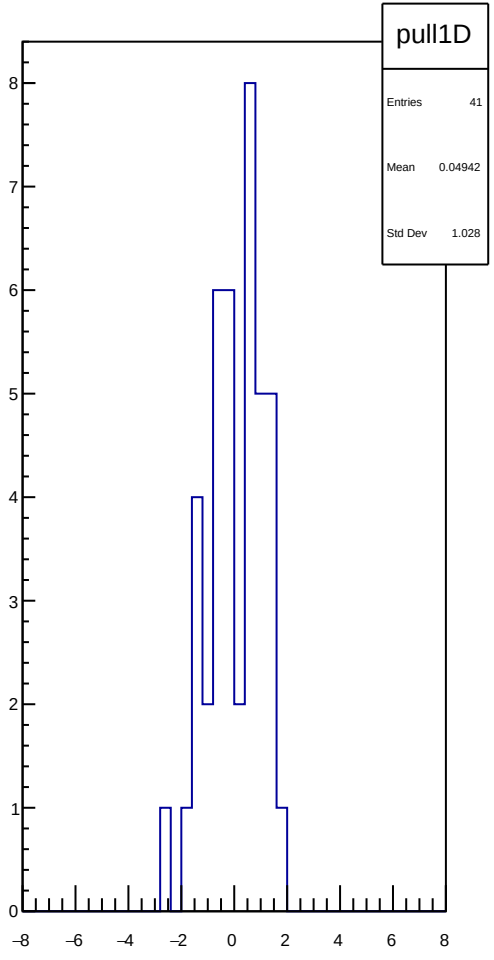
6131. 4
6131. 5

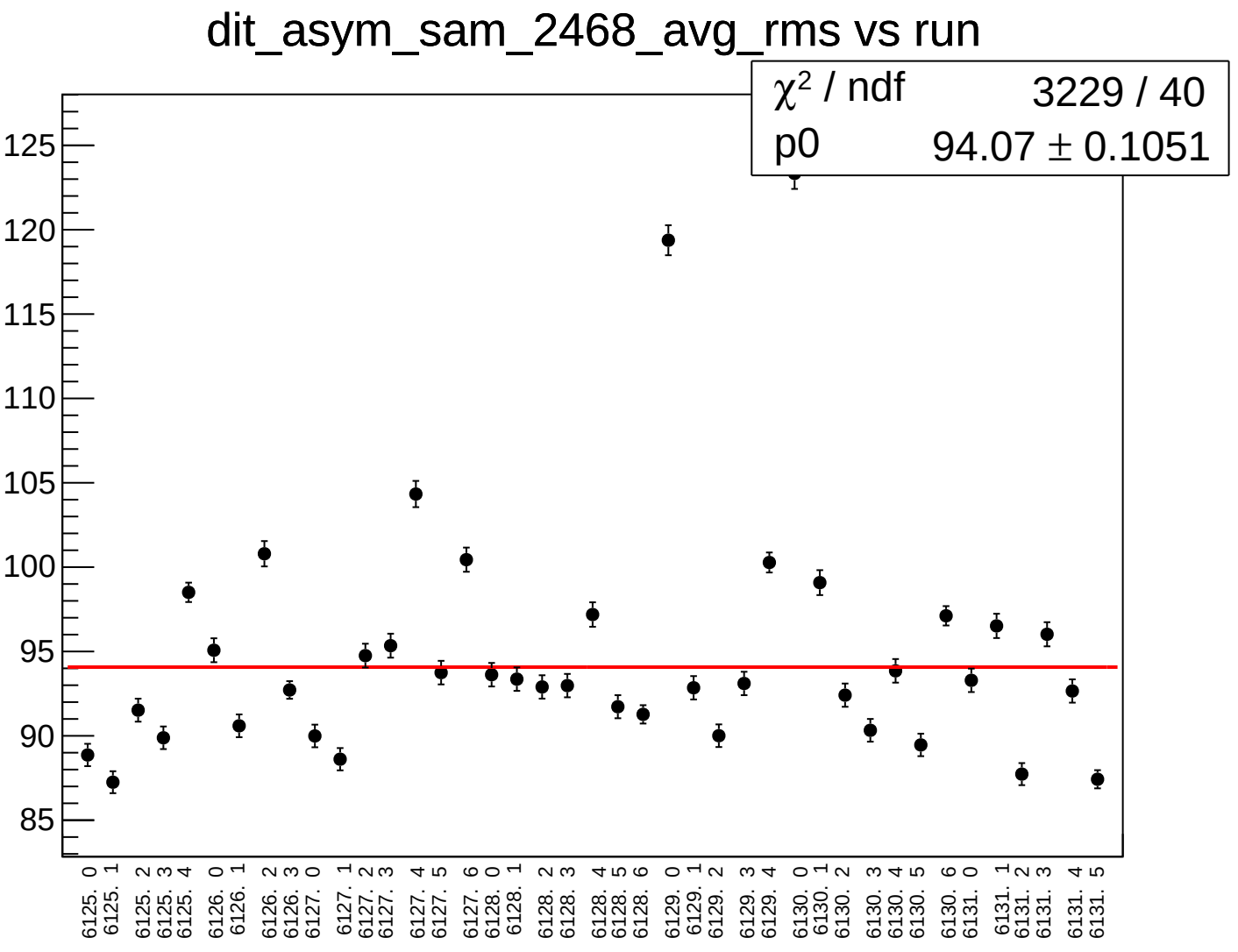

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 19.37 / 40
p0 −1466 ± 1943
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 315.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

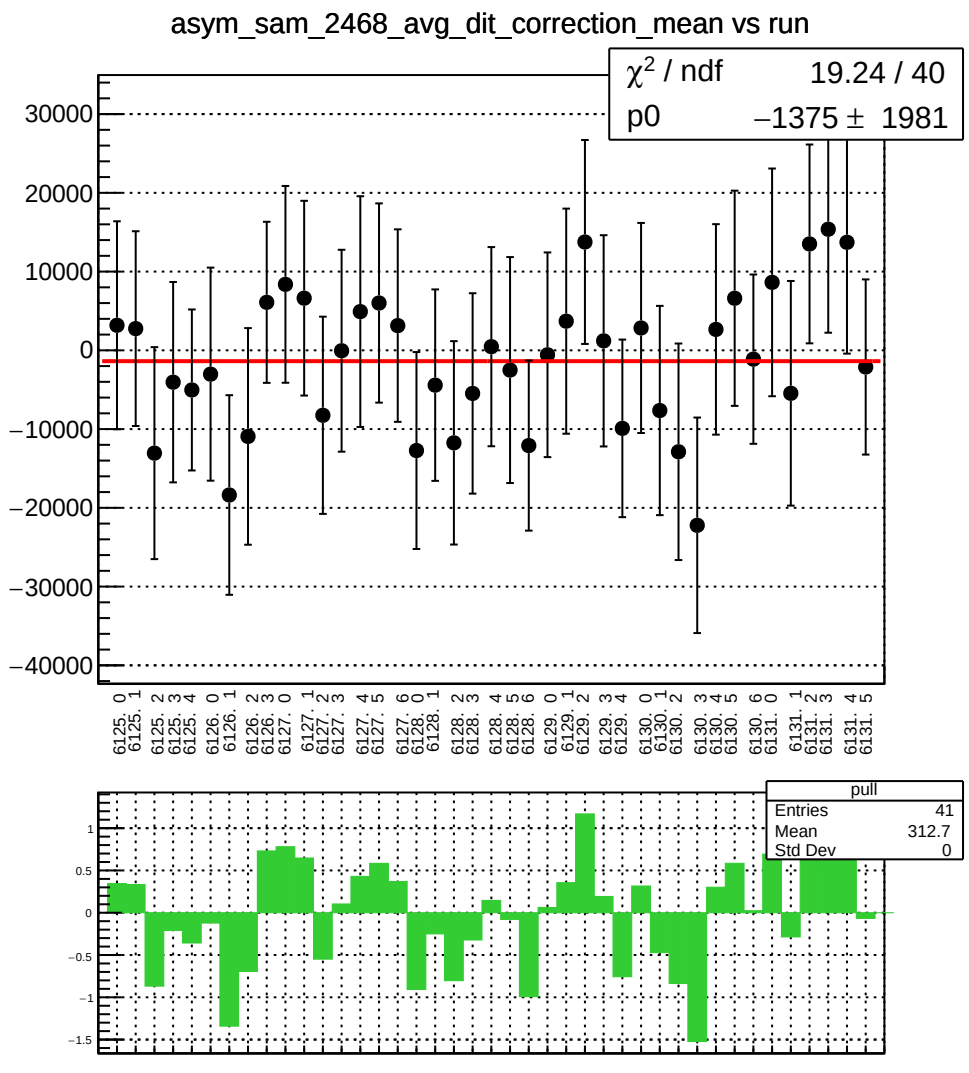

pull1D
Entries 41
Mean 0.006348
Std Dev 0.6873
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

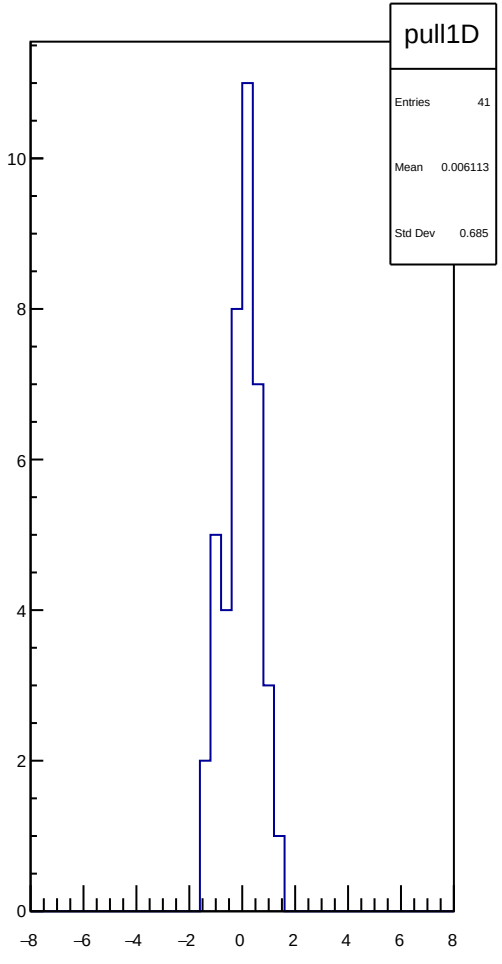

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 1928 / 40
p0 1231 ± 1.374
1400
1350
1300
1250
1200
1150
1100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

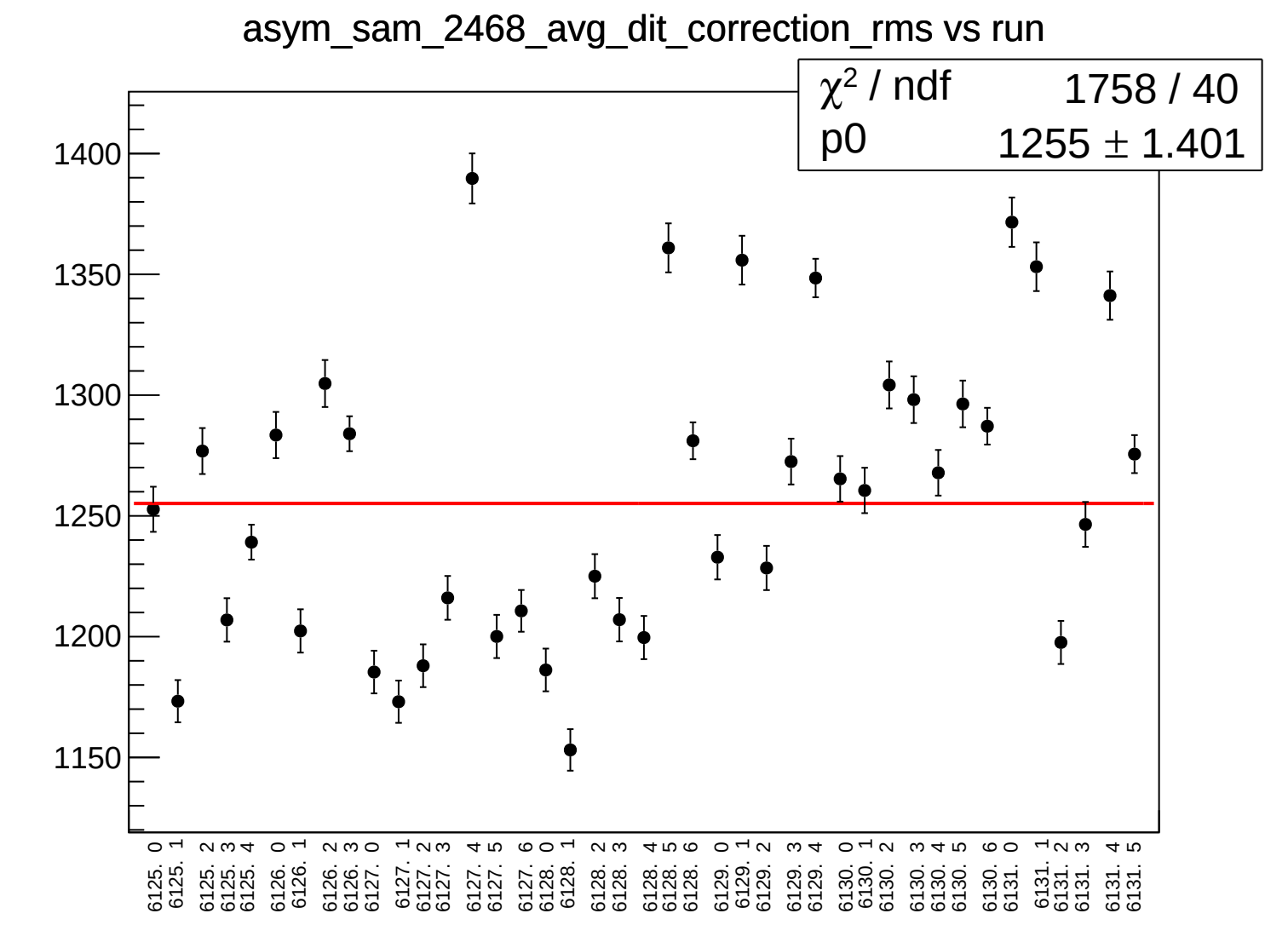

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 43.4 / 40
p0 178.7 ± 148.6
pull
Entries 41
Mean 7.201
Std Dev 9.346

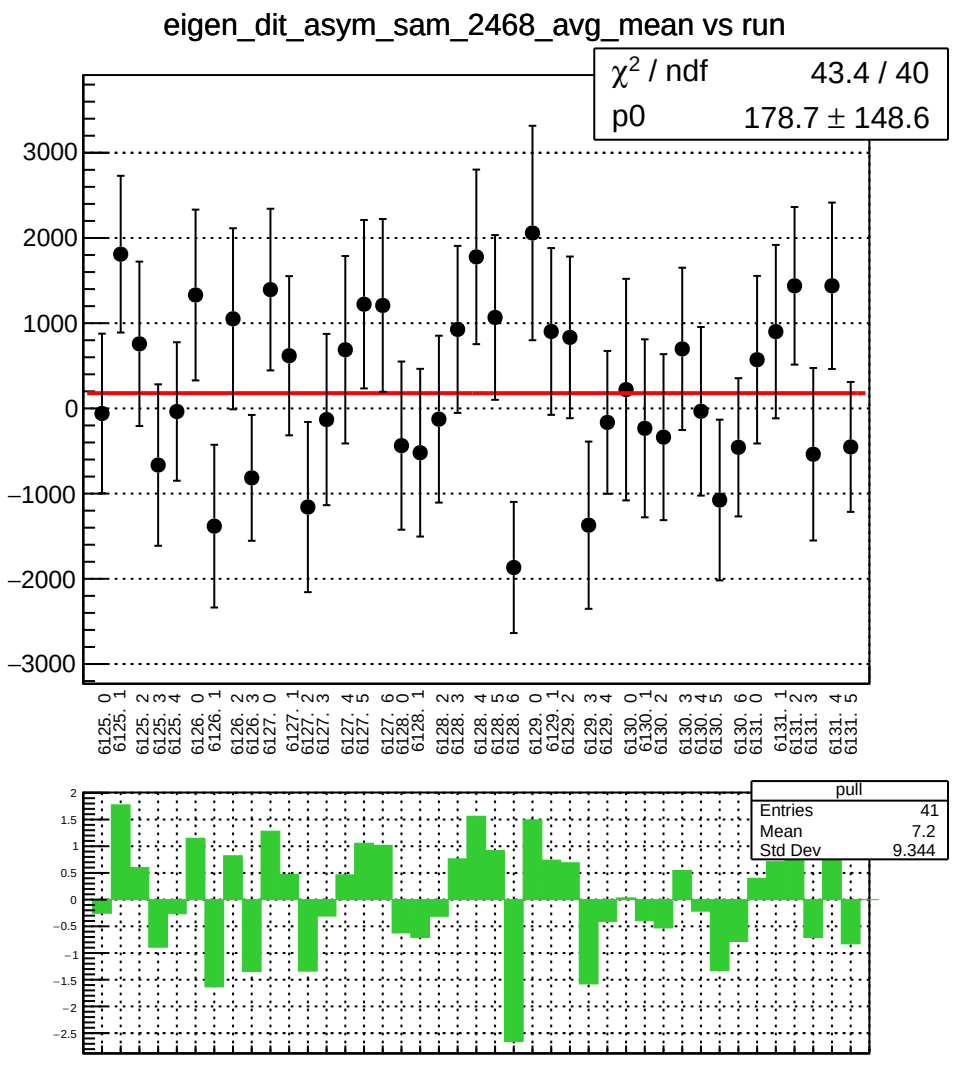

pull1D
Entries 41
Mean 0.04942
Std Dev 1.028

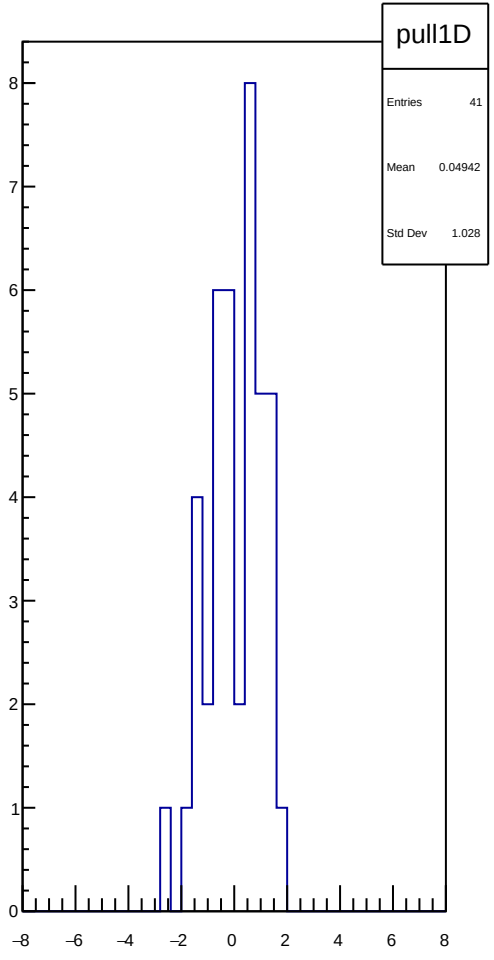

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 3229 / 40
p0 94.07 ± 0.1051
125
120
115
110
105
100
95
90
85
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

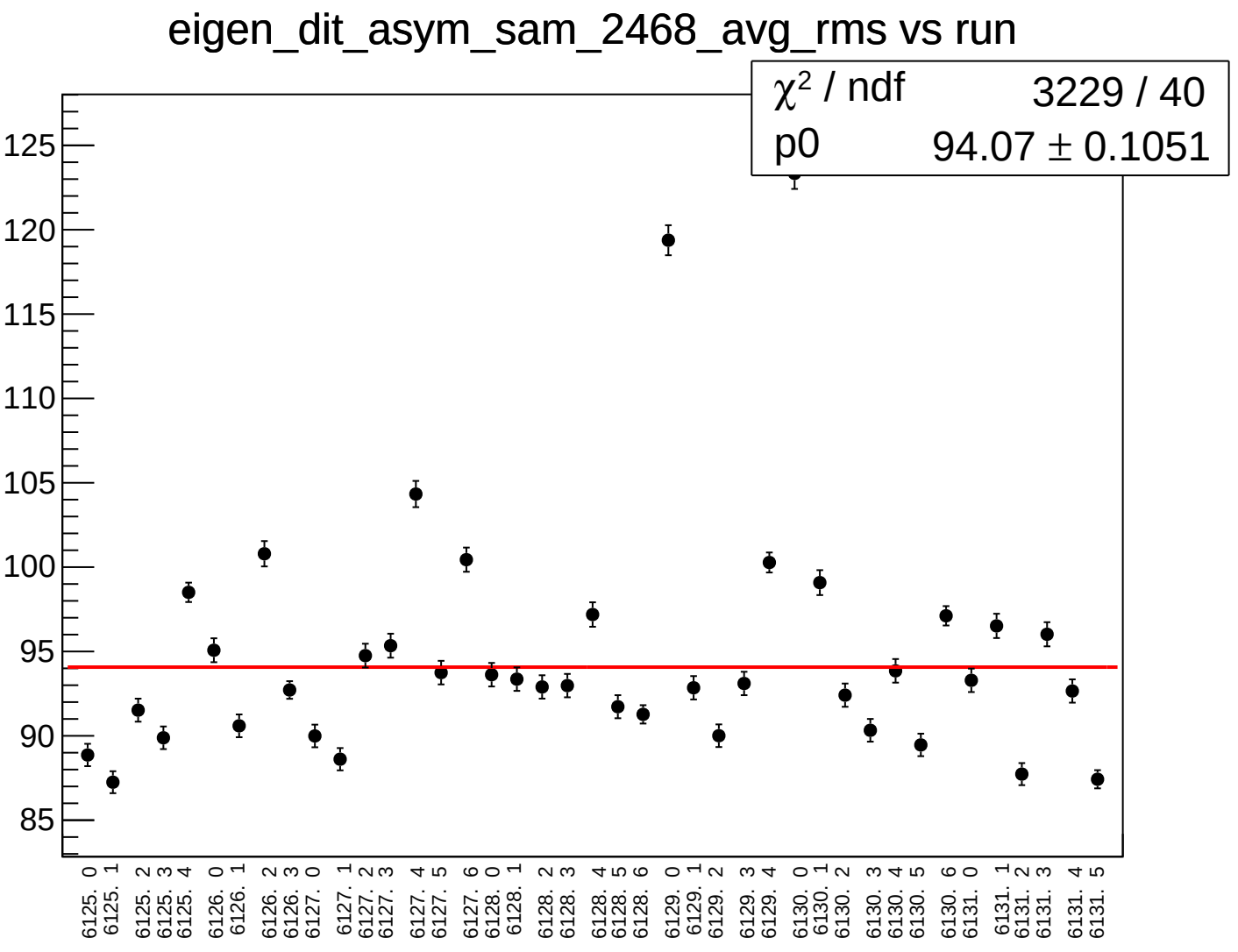

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 19.24 / 40
p0 −1375 ± 1981
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 312.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

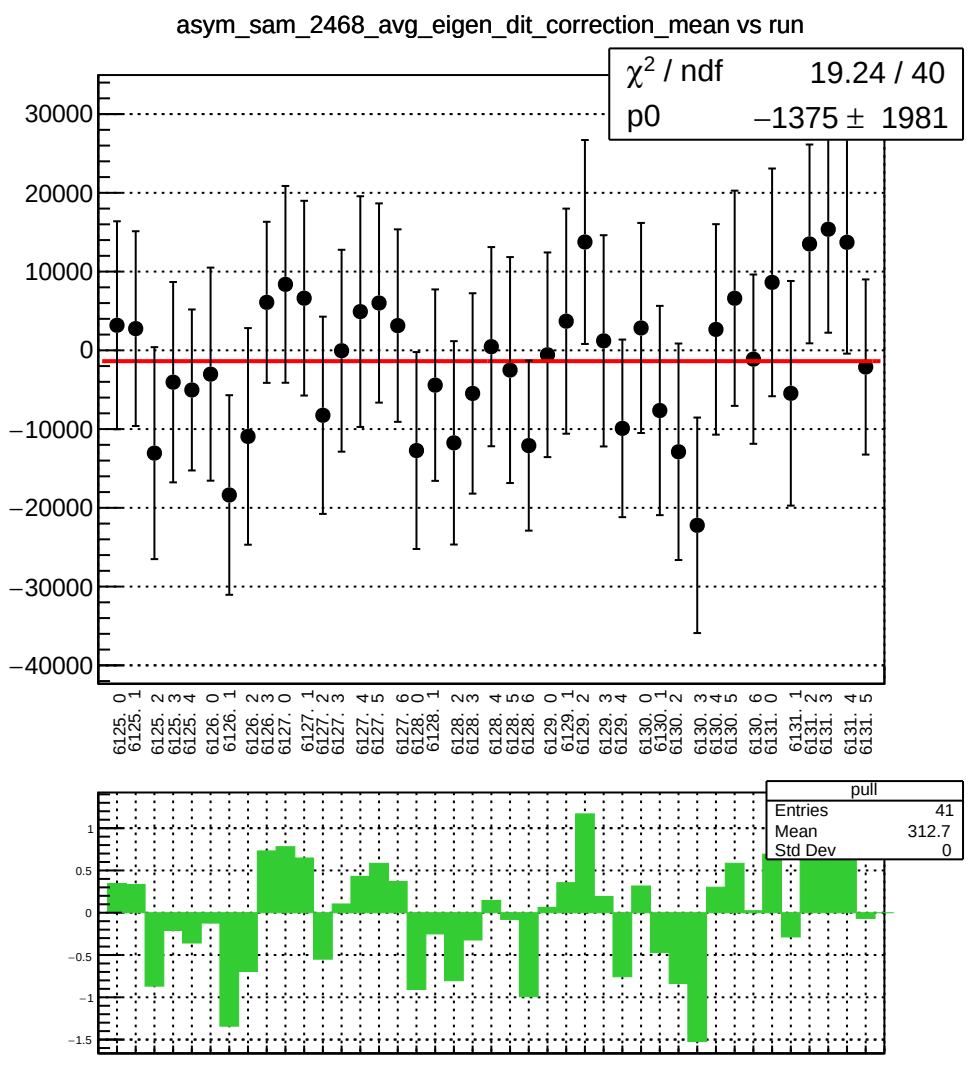

pull1D
Entries 41
Mean 0.006113
Std Dev 0.685
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

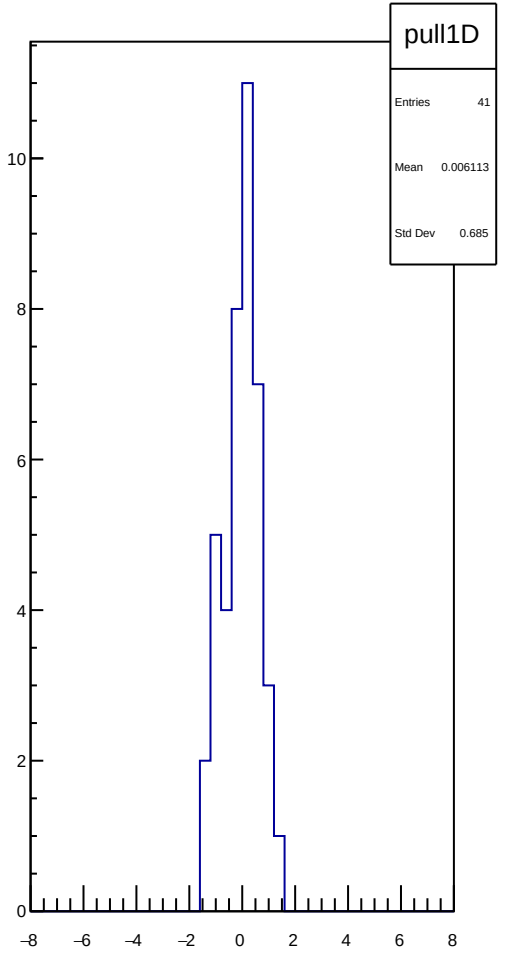

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 1758 / 40
p0 1255 ± 1.401
1400
1350
1300
1250
1200
1150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

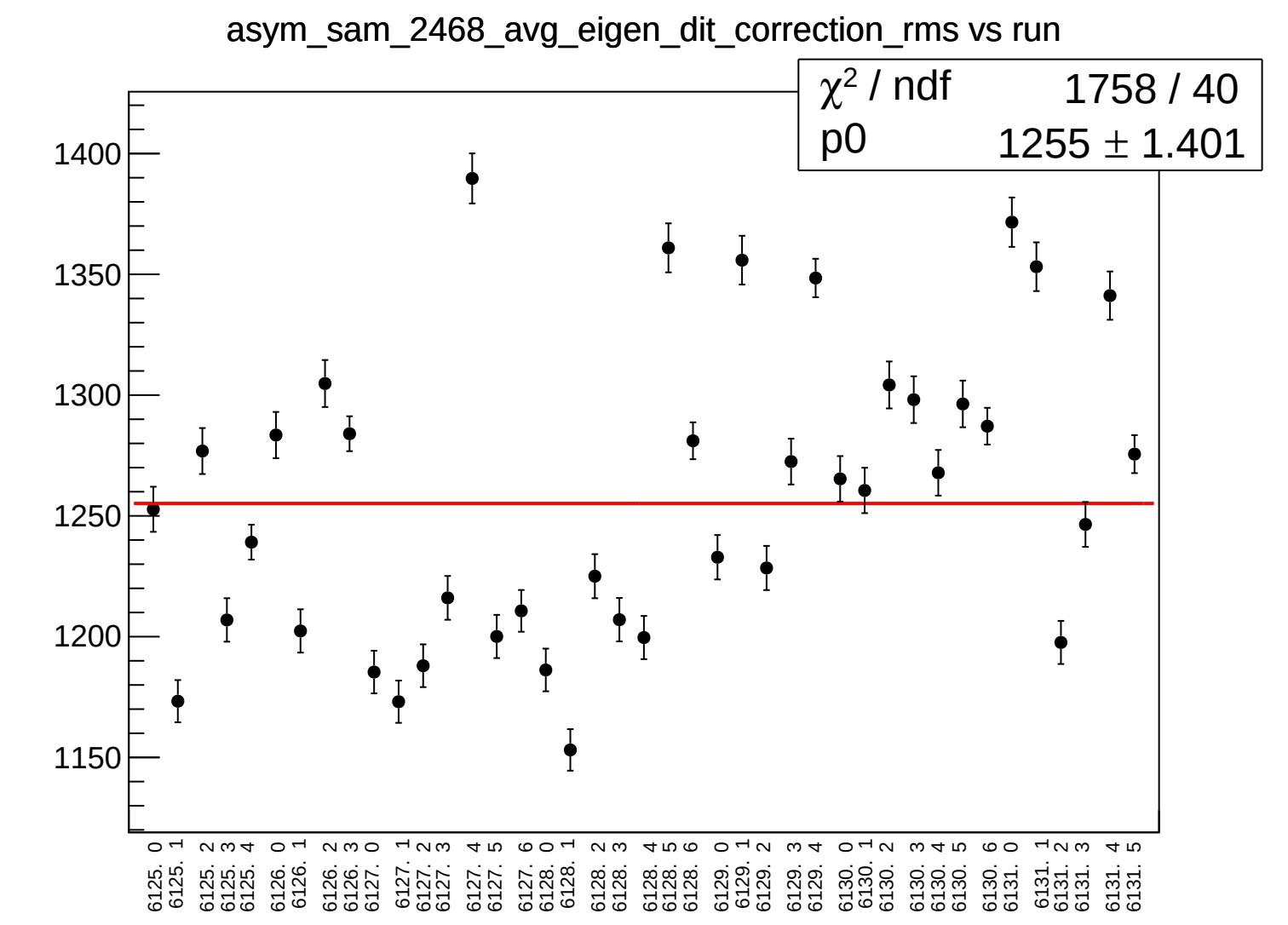

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 43.4 / 40
p0 178.7 ± 148.6
3000
2000
1000
0
−1000
−2000
−3000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 7.2
Std Dev 9.344
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

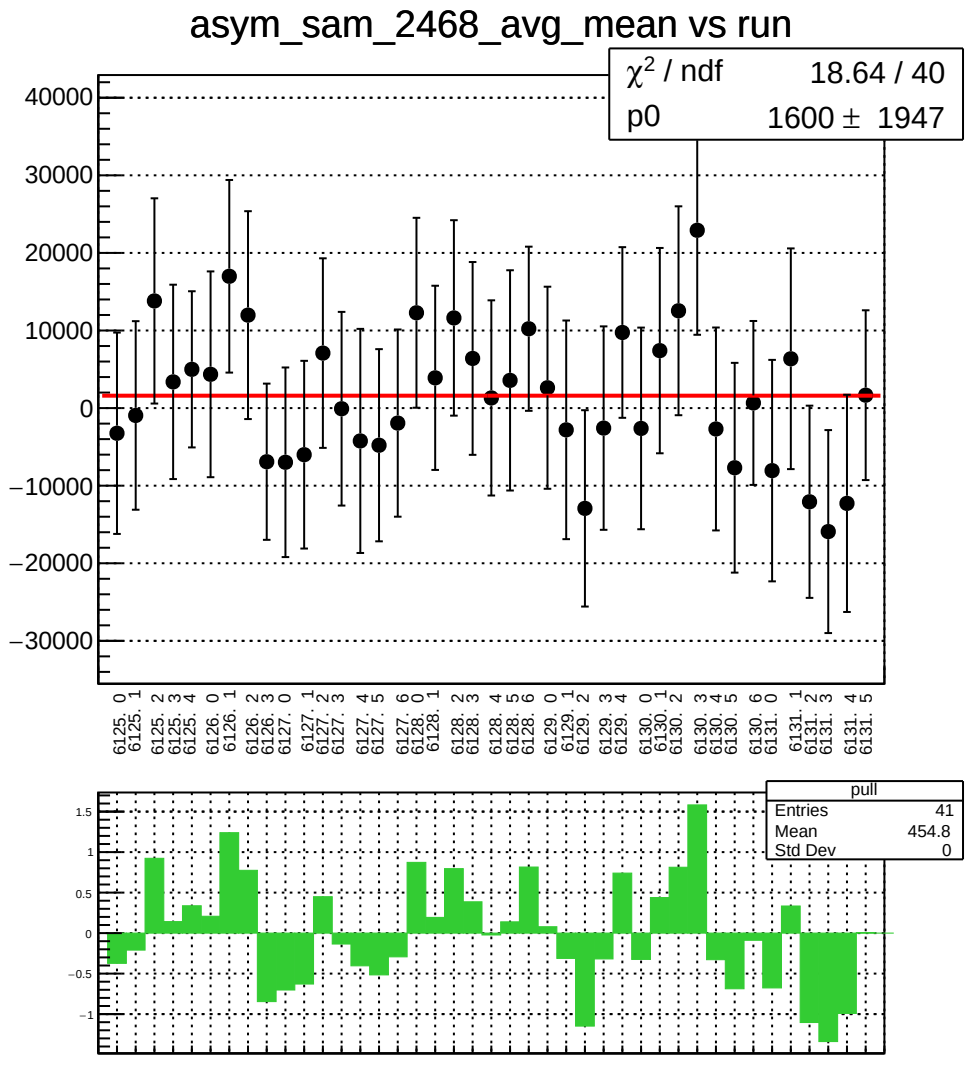

pull1D
Entries 41
Mean 0.04942
Std Dev 1.028
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

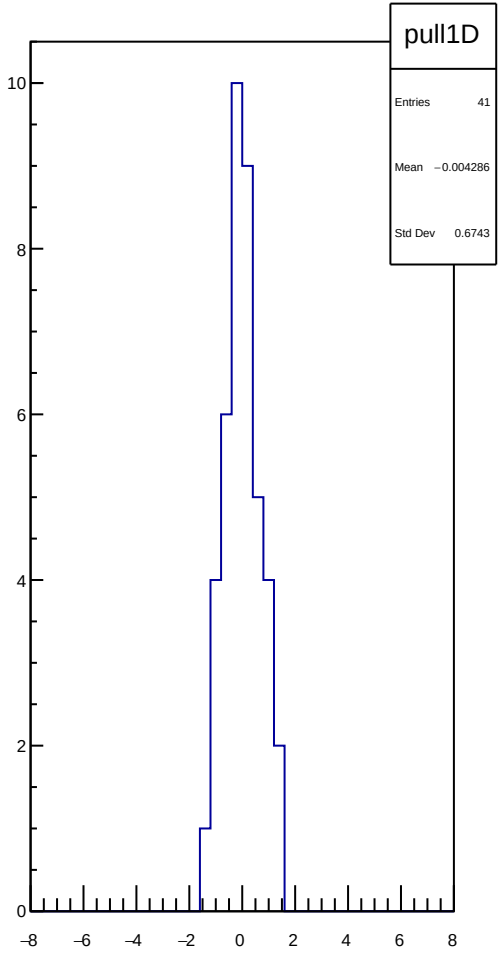

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 3229 / 40
p0 94.07 ± 0.1051
125
120
115
110
105
100
95
90
85
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

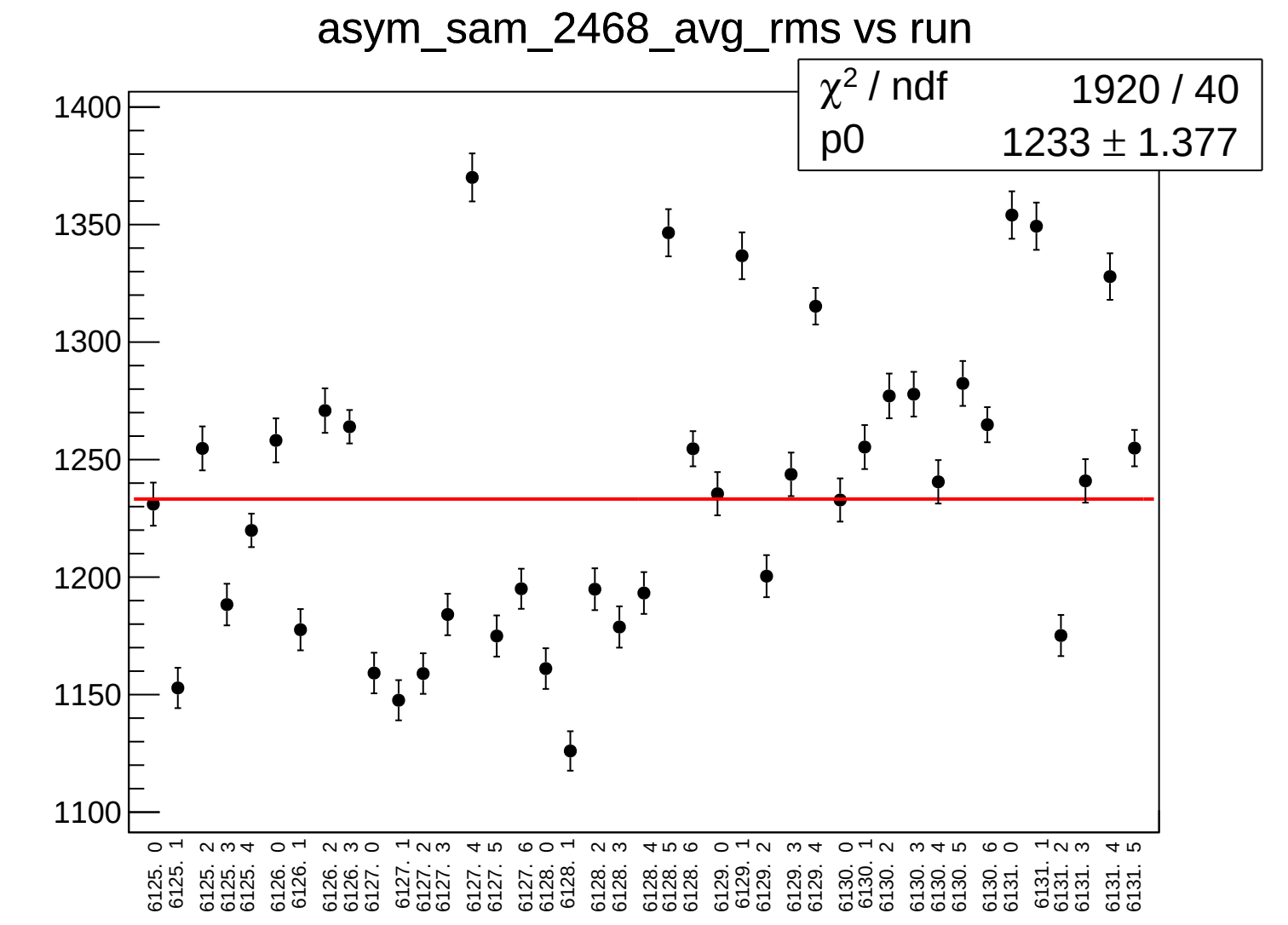

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 19.24 / 40
p0 −1375 ± 1981
30000
20000
10000
0
−10000
−20000
−30000
−40000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 312.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

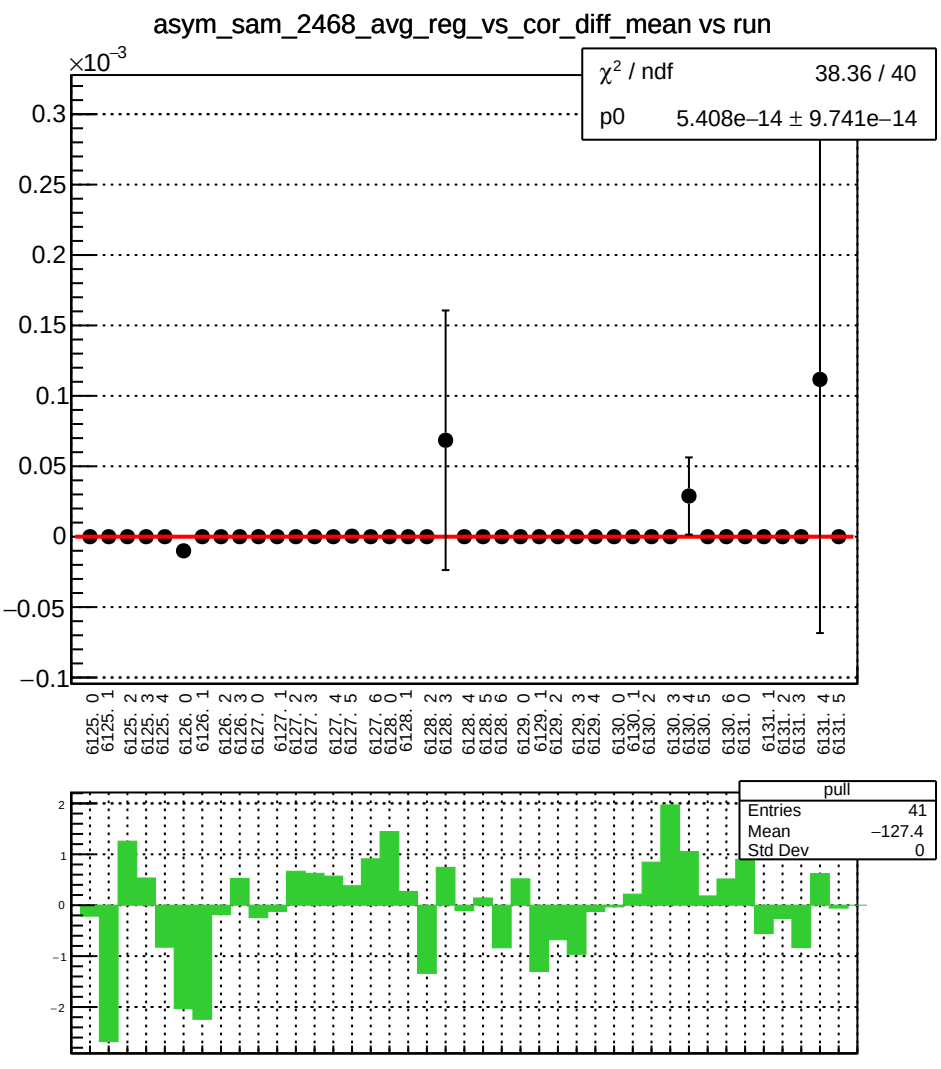

pull1D
Entries 41
Mean 0.006113
Std Dev 0.685
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

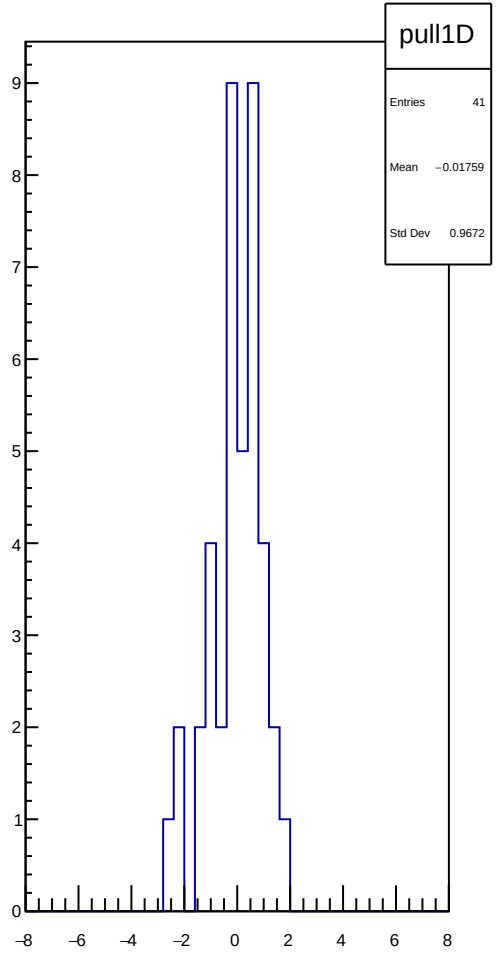

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 1758 / 40
p0 1255 ± 1.401
1400
1350
1300
1250
1200
1150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

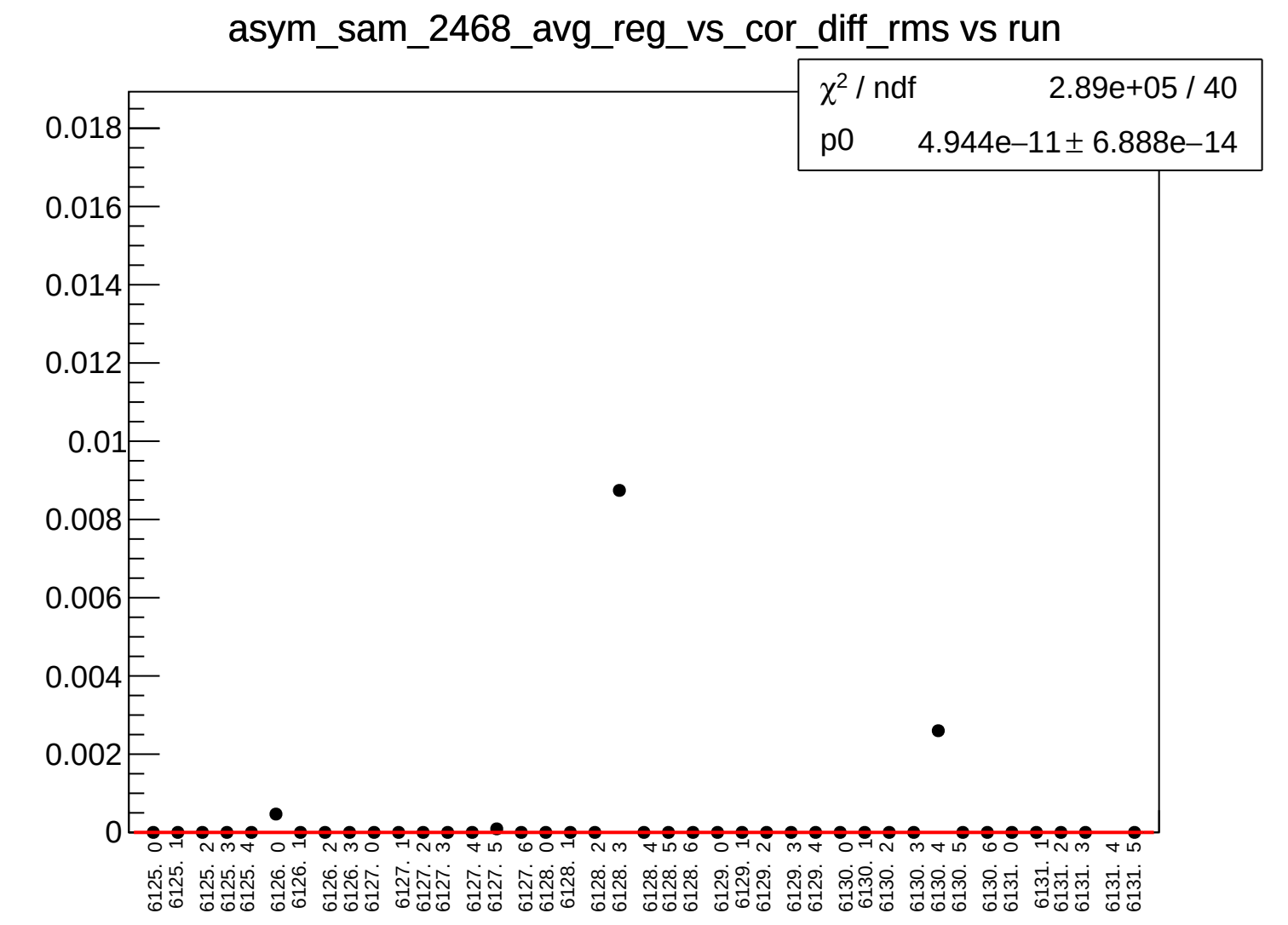

asym_sam_2468_avg_mean vs run
χ² / ndf 18.64 / 40
p0 1600 ± 1947
40000
30000
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 454.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1

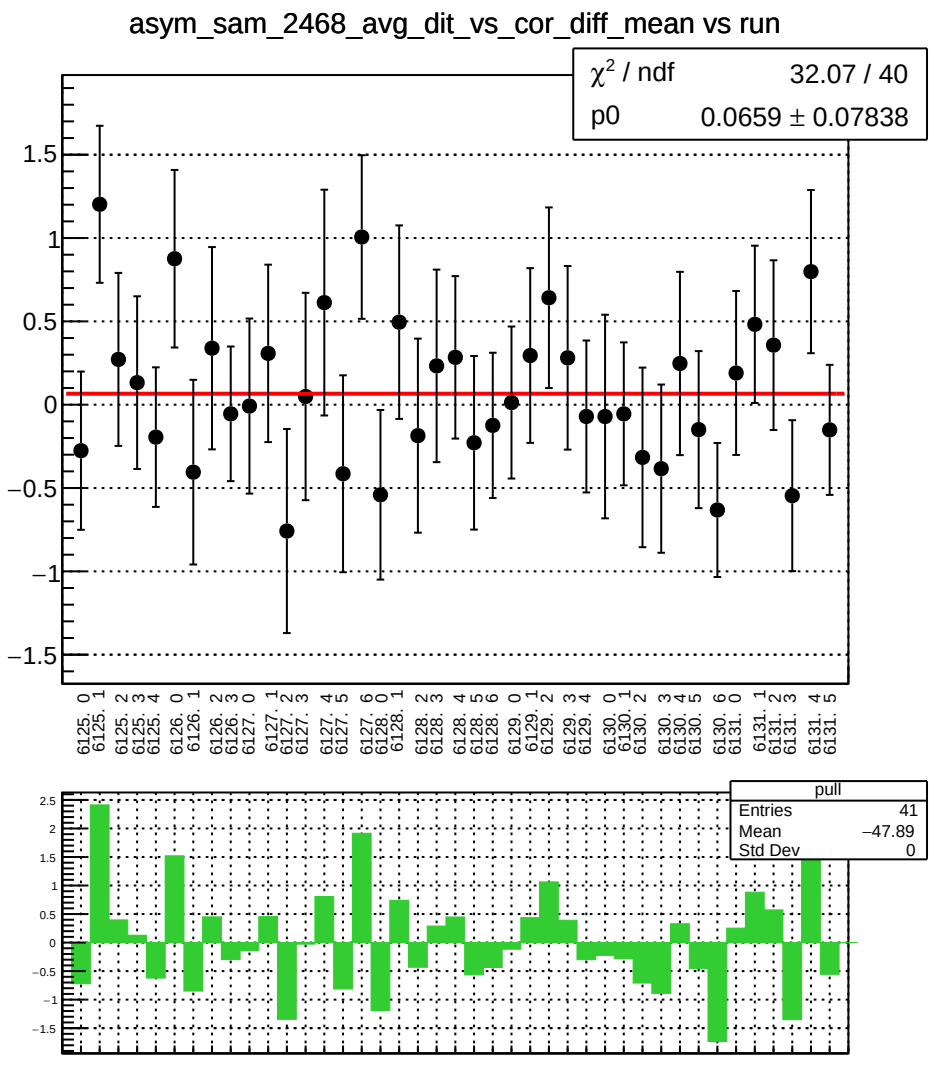

pull1D
Entries 41
Mean −0.004286
Std Dev 0.6743
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

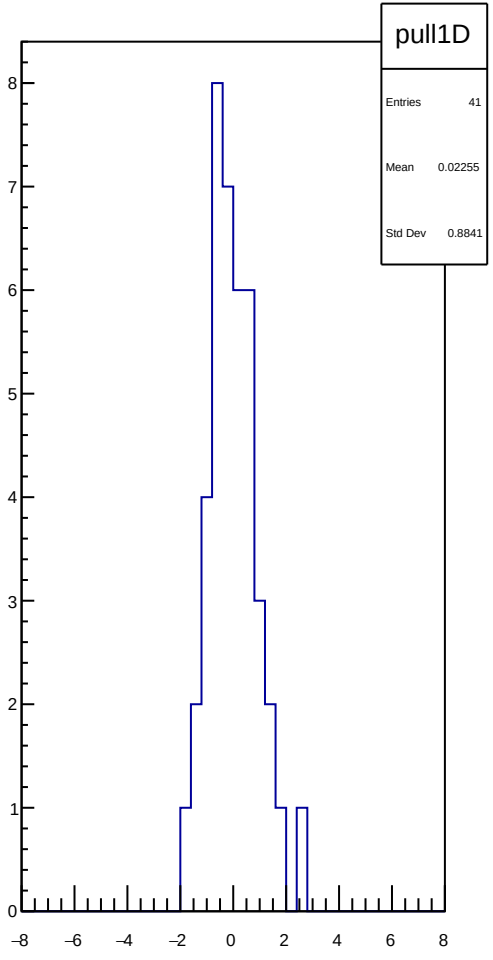

asym_sam_2468_avg_rms vs run
χ² / ndf 1920 / 40
p0 1233 ± 1.377
1400
1350
1300
1250
1200
1150
1100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

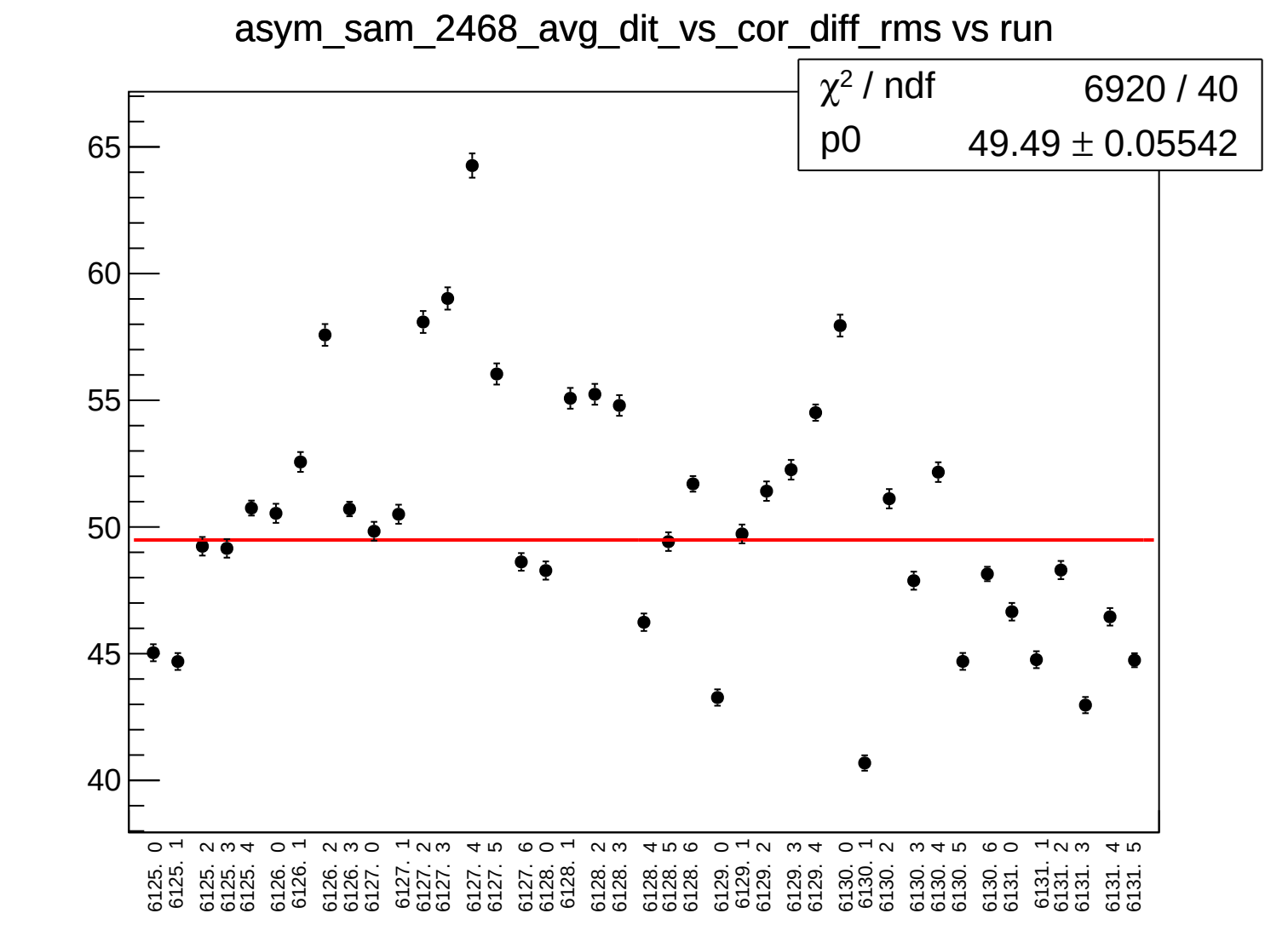

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 38.36 / 40
p0 5.408e−14 ± 9.741e−14
0.3
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −127.4
Std Dev 0
2
1
0
−1
−2

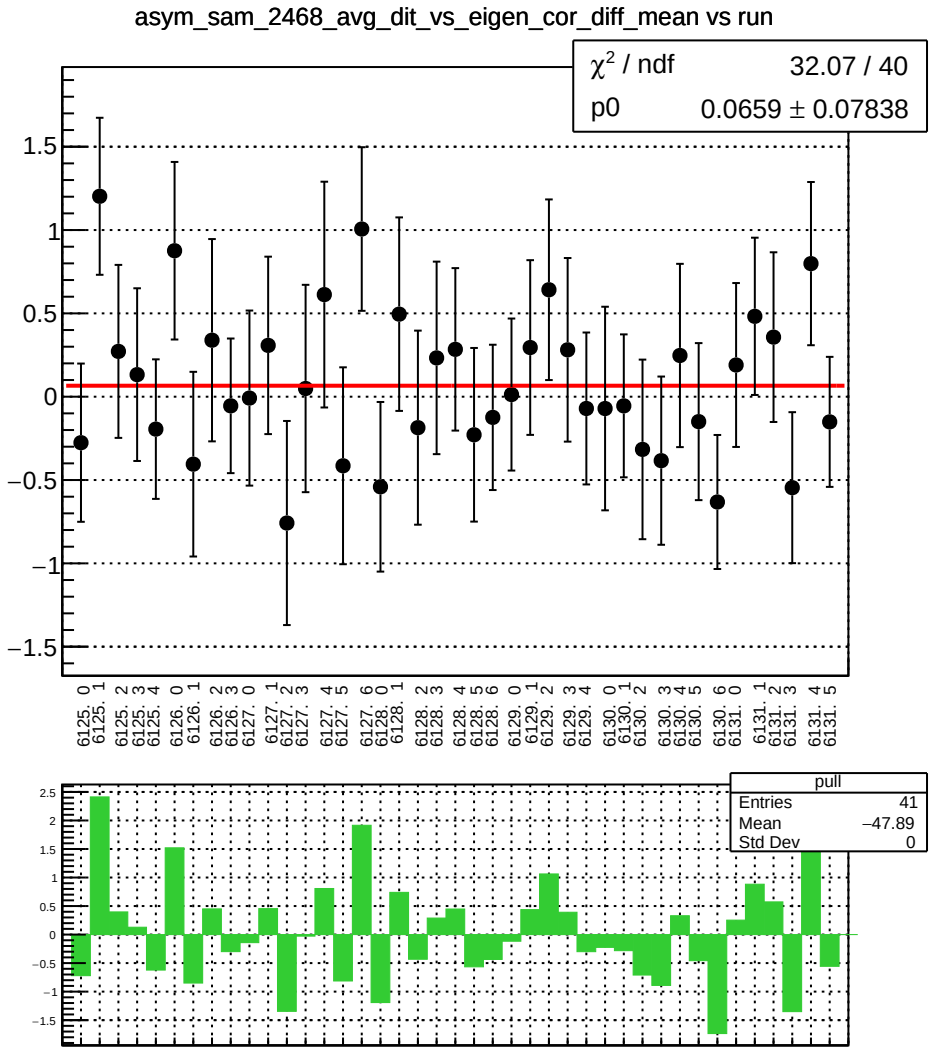

pull1D
Entries 41
Mean −0.01759
Std Dev 0.9672
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

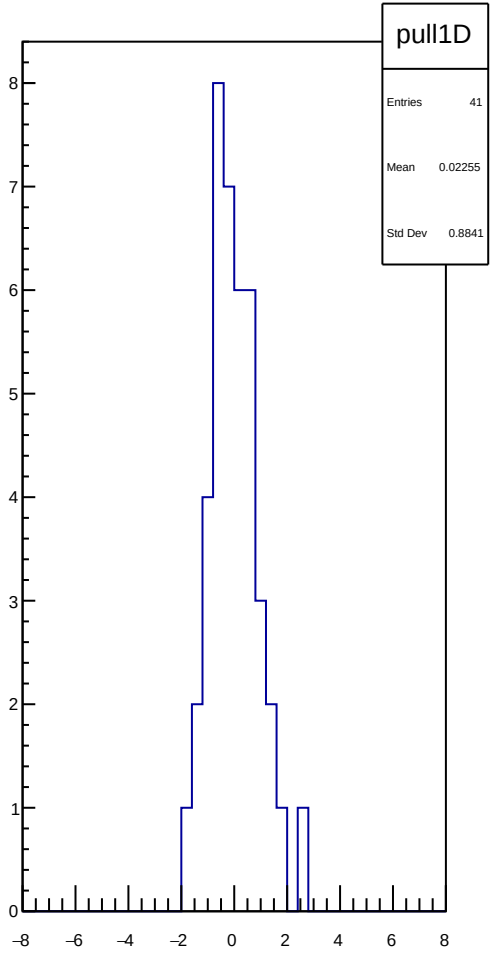

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.89e+05 / 40
p0 4.944e−11 ± 6.888e−14
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

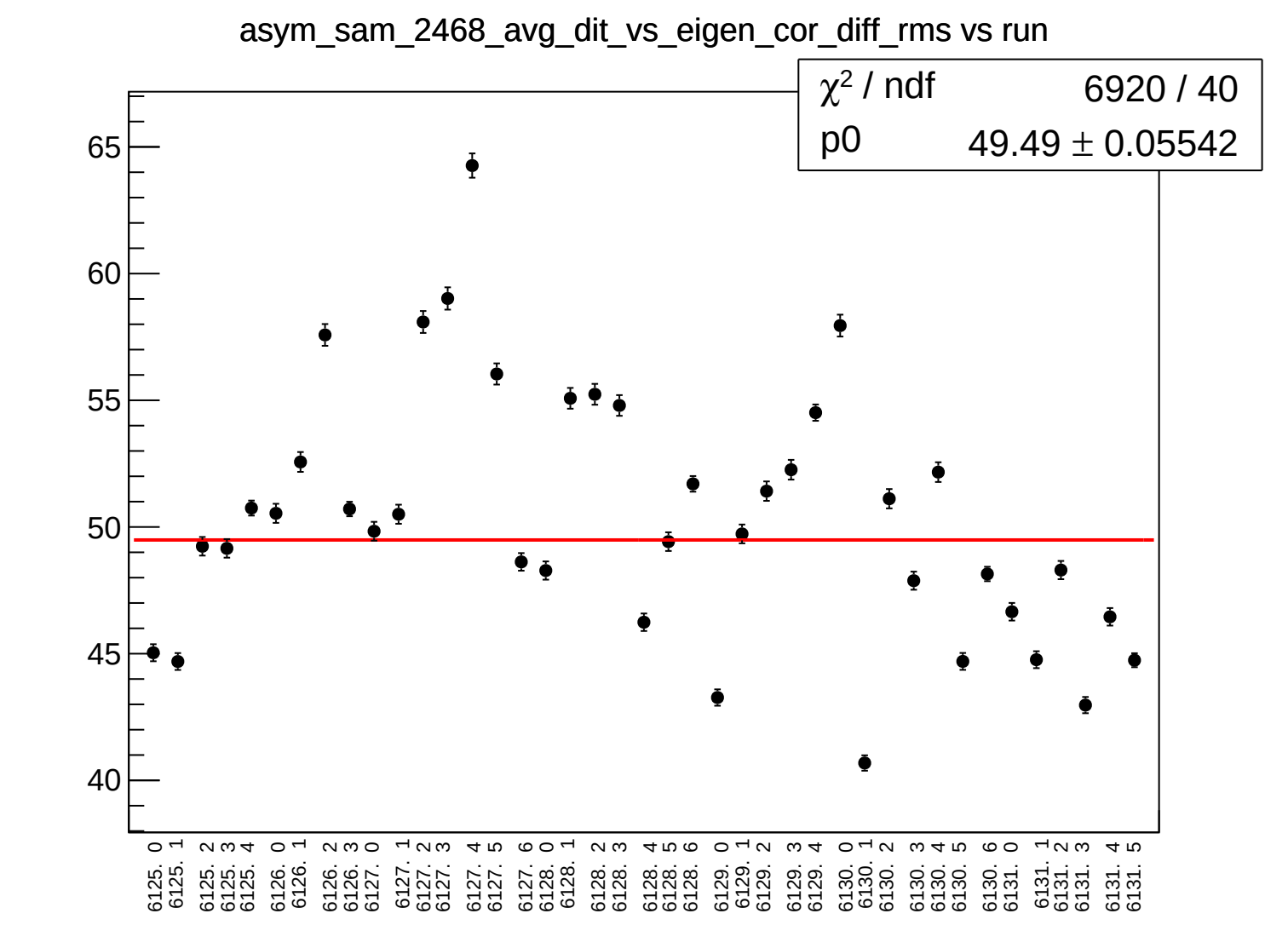

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 32.07 / 40
p0 0.0659 ± 0.07838
pull
Entries 41
Mean −47.89
Std Dev 0

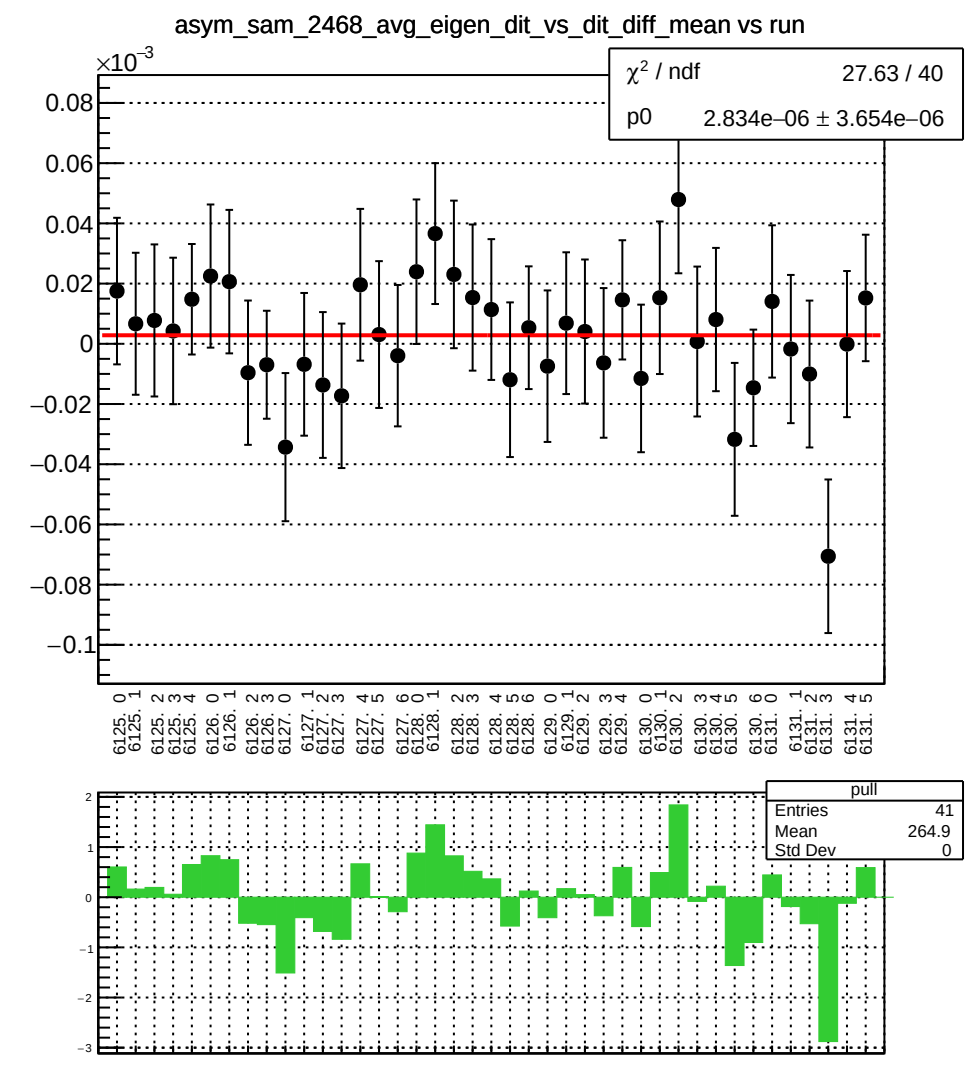

pull1D
Entries 41
Mean 0.02255
Std Dev 0.8841

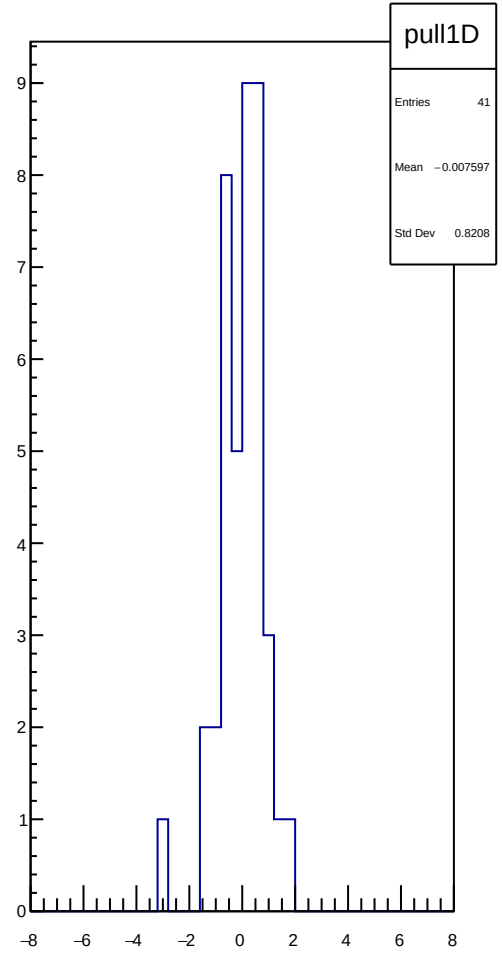

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6920 / 40
p0 49.49 ± 0.05542
65
60
55
50
45
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

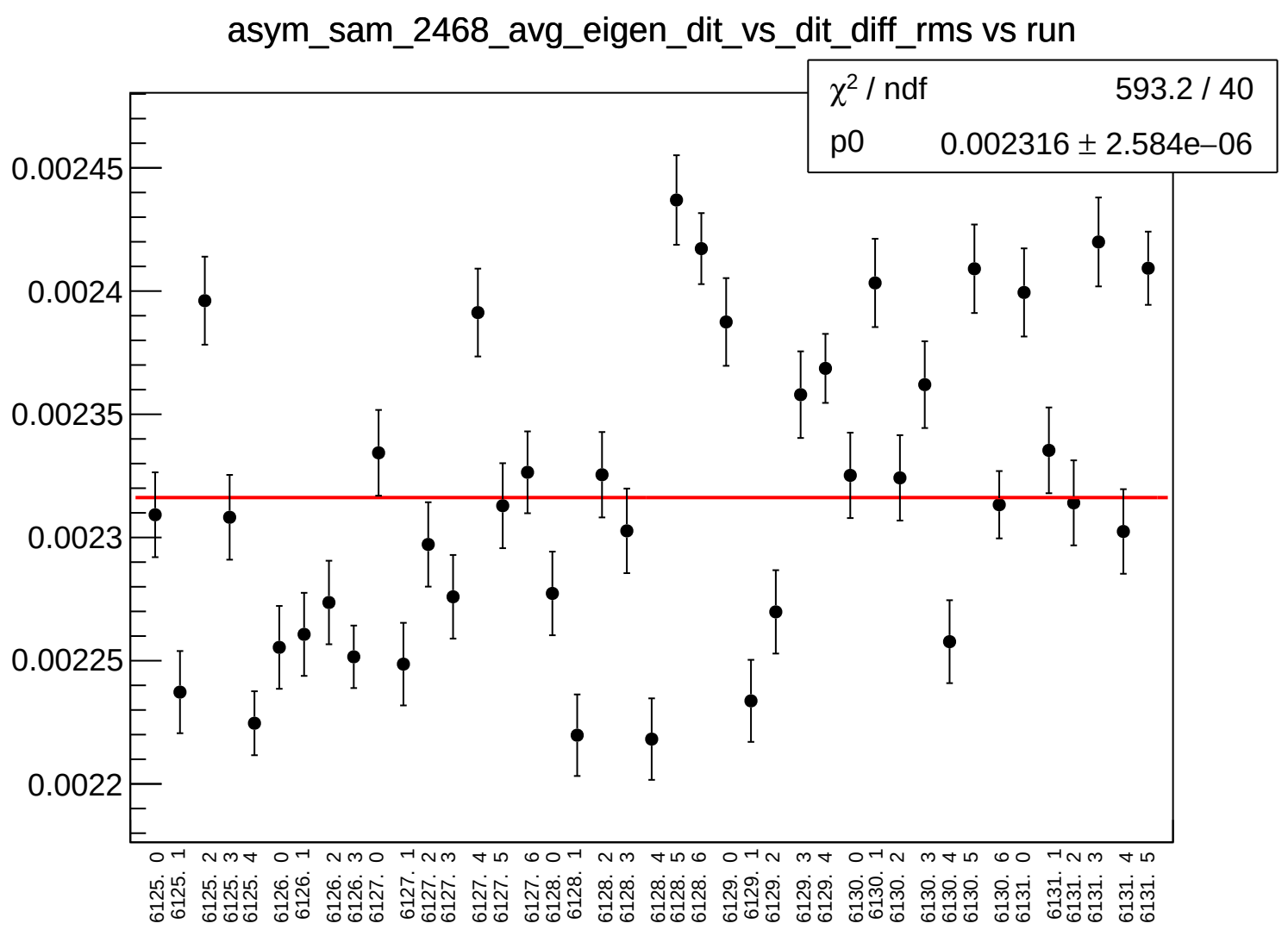

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.07 / 40
p0 0.0659 ± 0.07838
pull
Entries 41
Mean −47.89
Std Dev 0

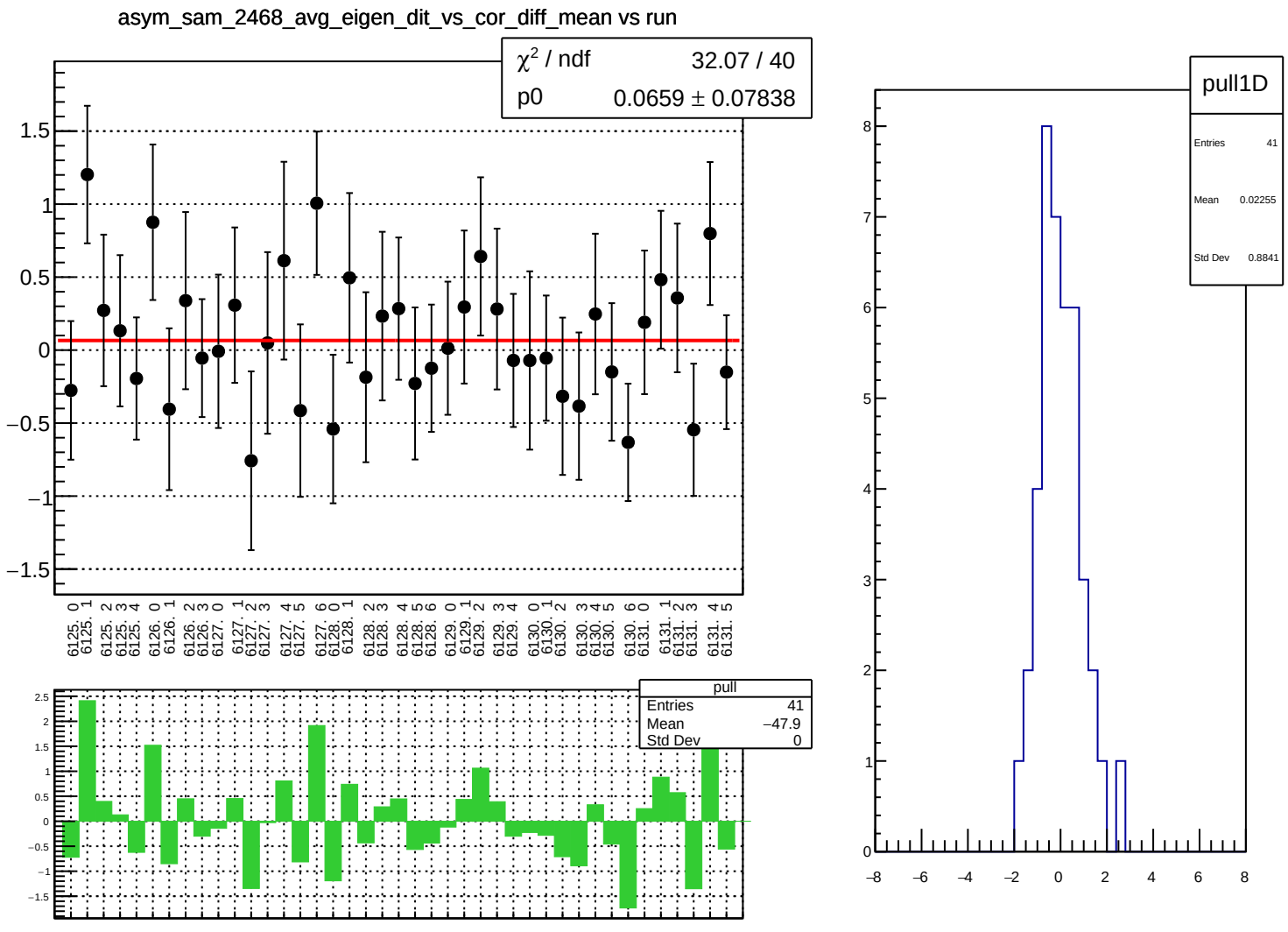

pull1D
Entries 41
Mean 0.02255
Std Dev 0.8841

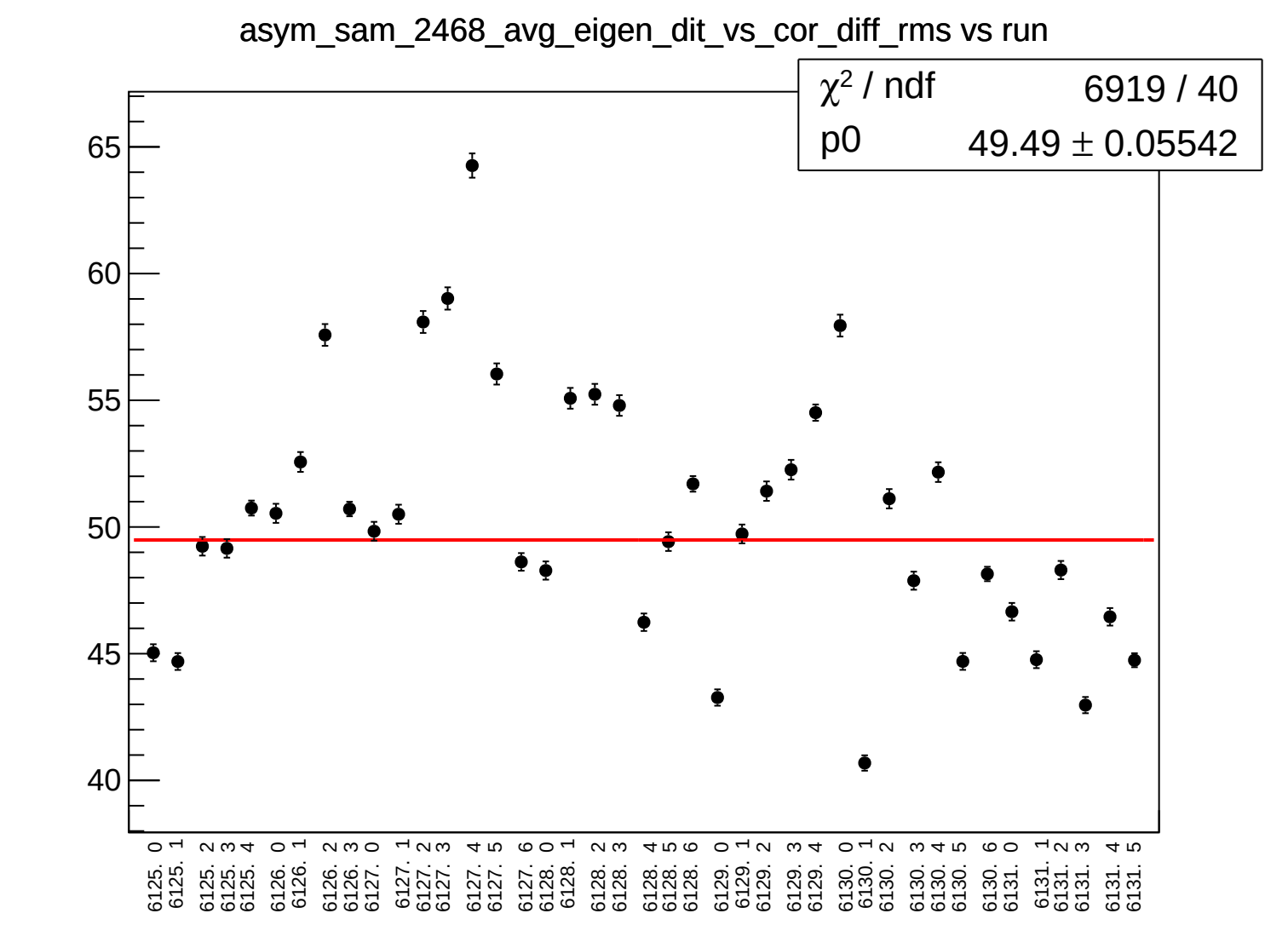

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6920 / 40
p0 49.49 ± 0.05542
65
60
55
50
45
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

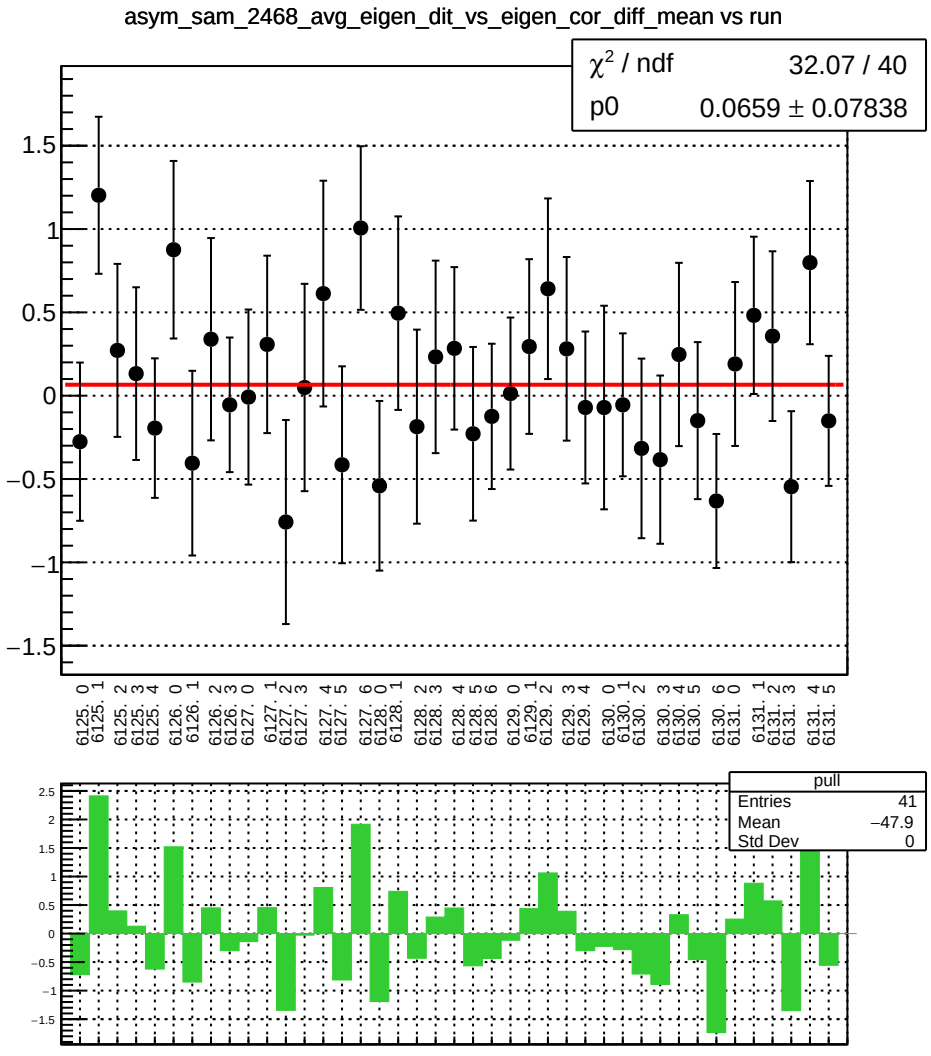

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 27.63 / 40
p0 2.834e−06 ± 3.654e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 264.9
Std Dev 0
2
1
0
−1
−2
−3

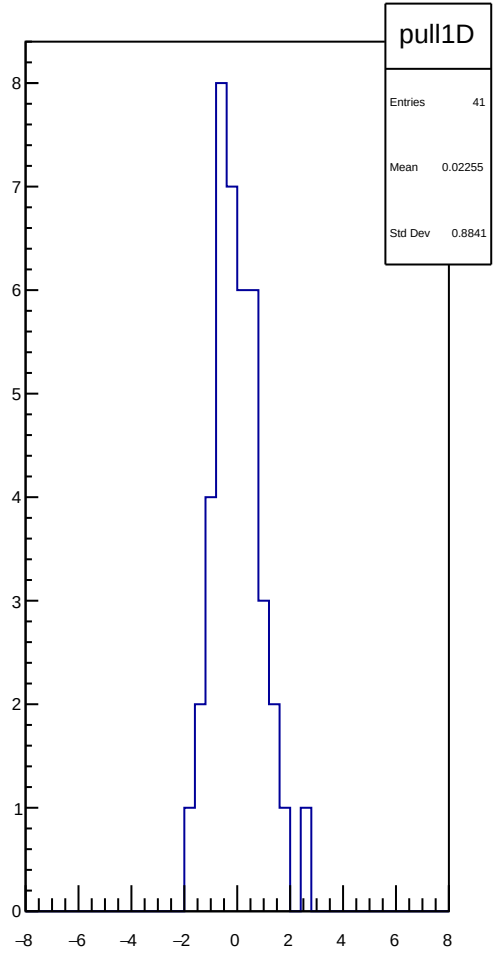

pull1D
Entries 41
Mean −0.007597
Std Dev 0.8208
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

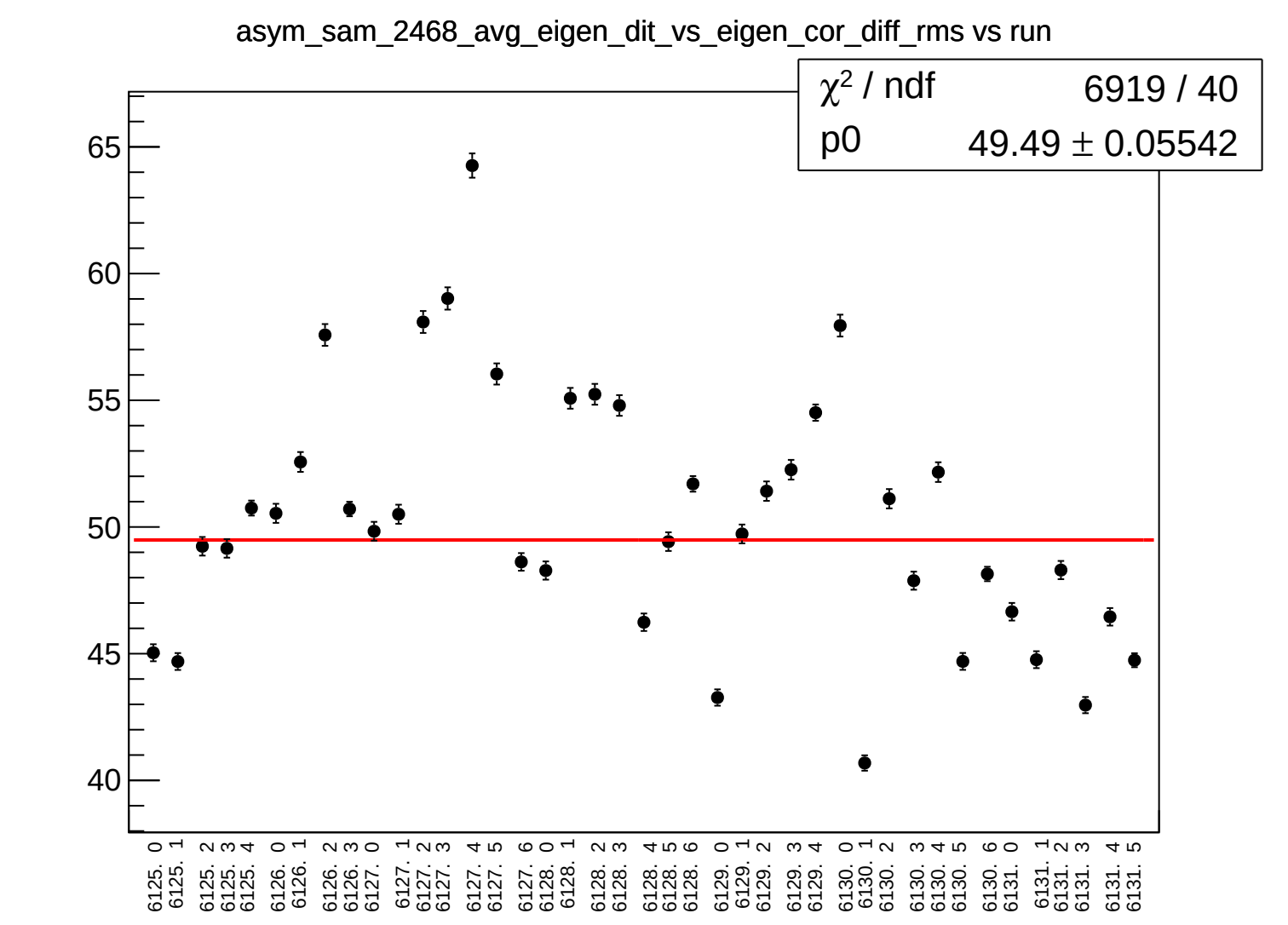

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 593.2 / 40
p0 0.002316 ± 2.584e−06
0.00245
0.0024
0.00235
0.0023
0.00225
0.0022
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

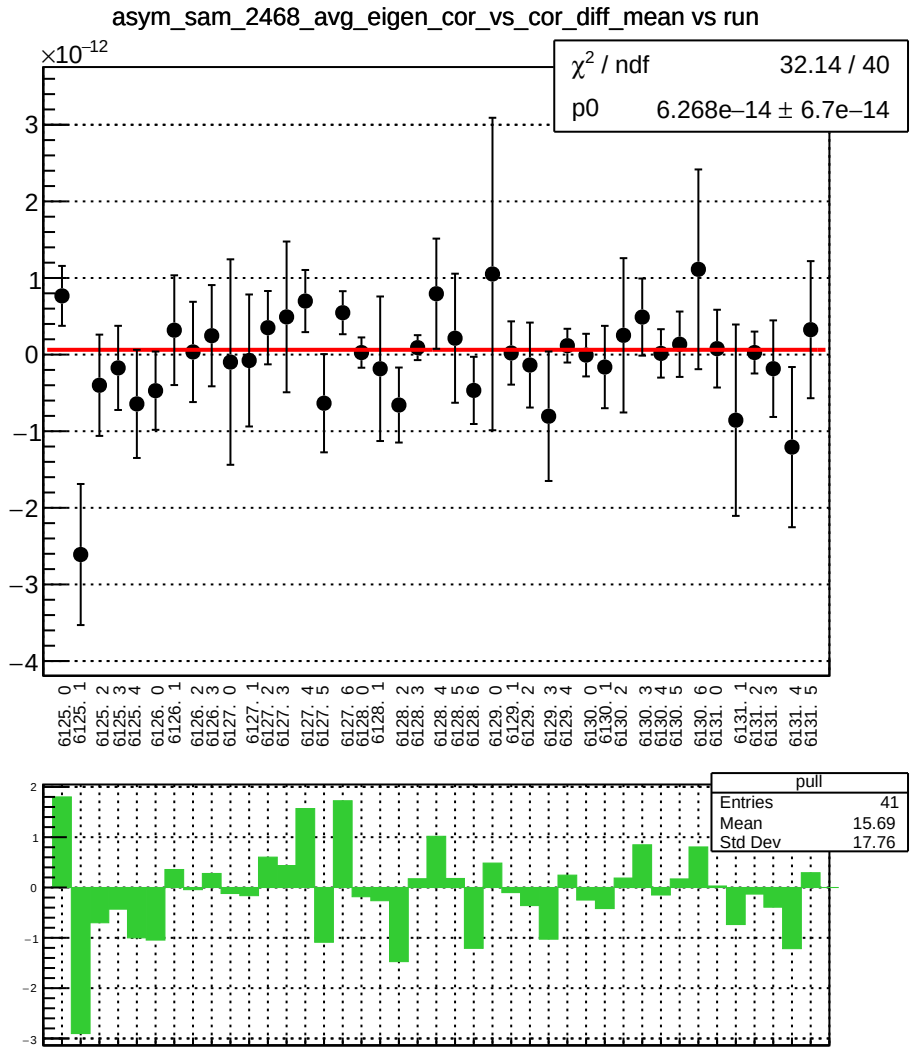

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 32.07 / 40
p0 0.0659 ± 0.07838
1.5
1
0.5
0
−0.5
−1
−1.5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −47.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.02255
Std Dev 0.8841
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

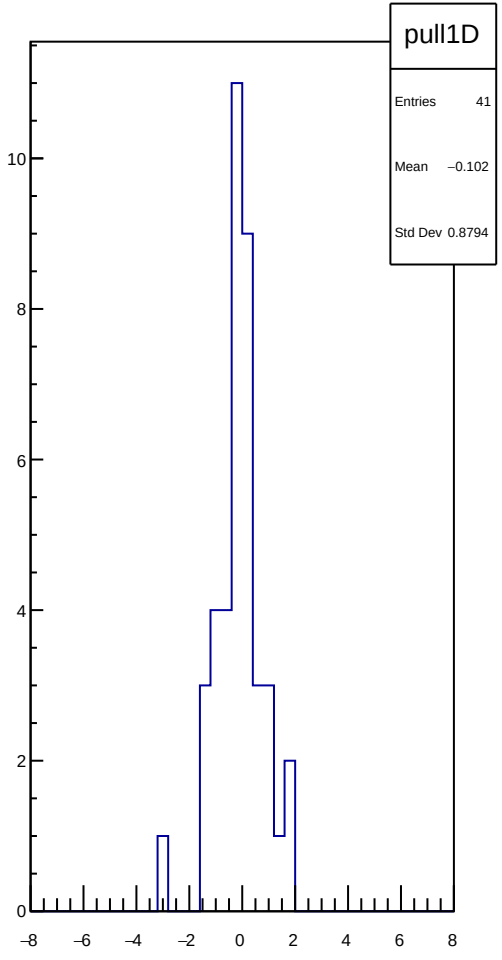

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6919 / 40
p0 49.49 ± 0.05542
65
60
55
50
45
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

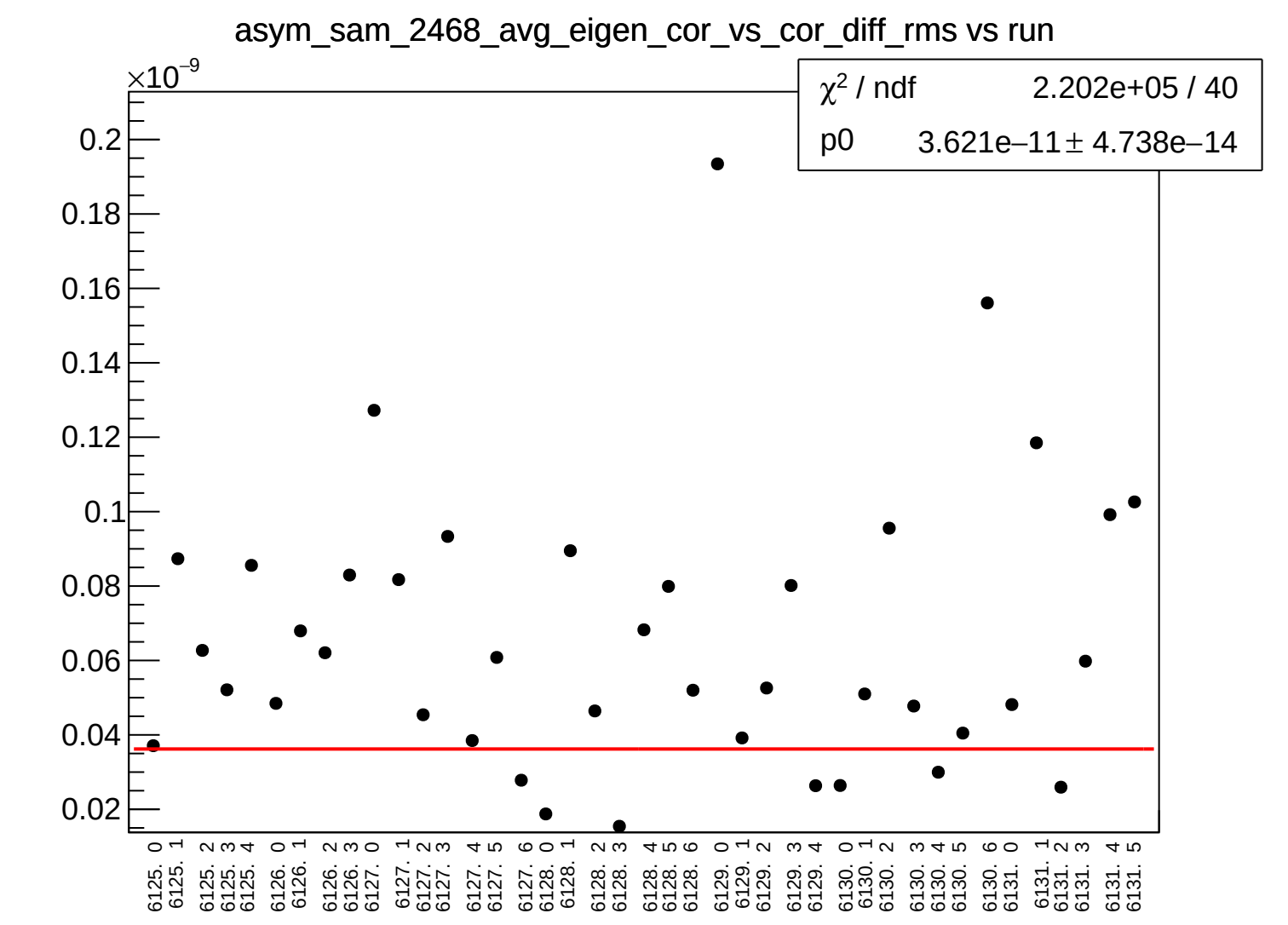

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.07 / 40
p0 0.0659 ± 0.07838
pull
Entries 41
Mean −47.9
Std Dev 0

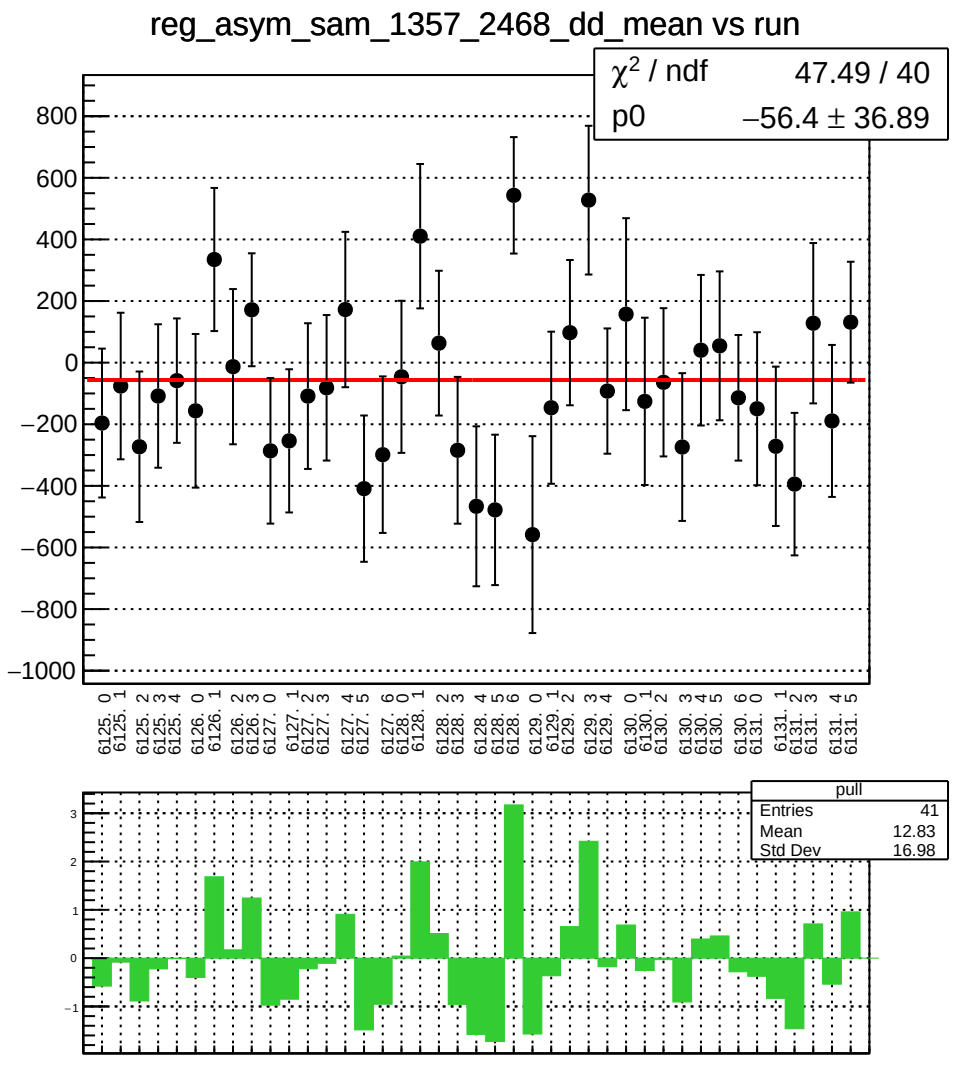

pull1D
Entries 41
Mean 0.02255
Std Dev 0.8841

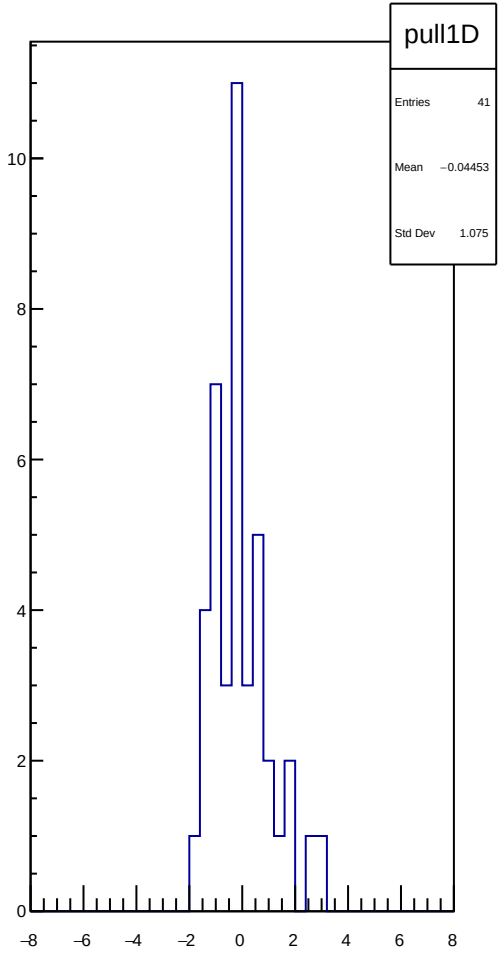

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6919 / 40
p0 49.49 ± 0.05542
65
60
55
50
45
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

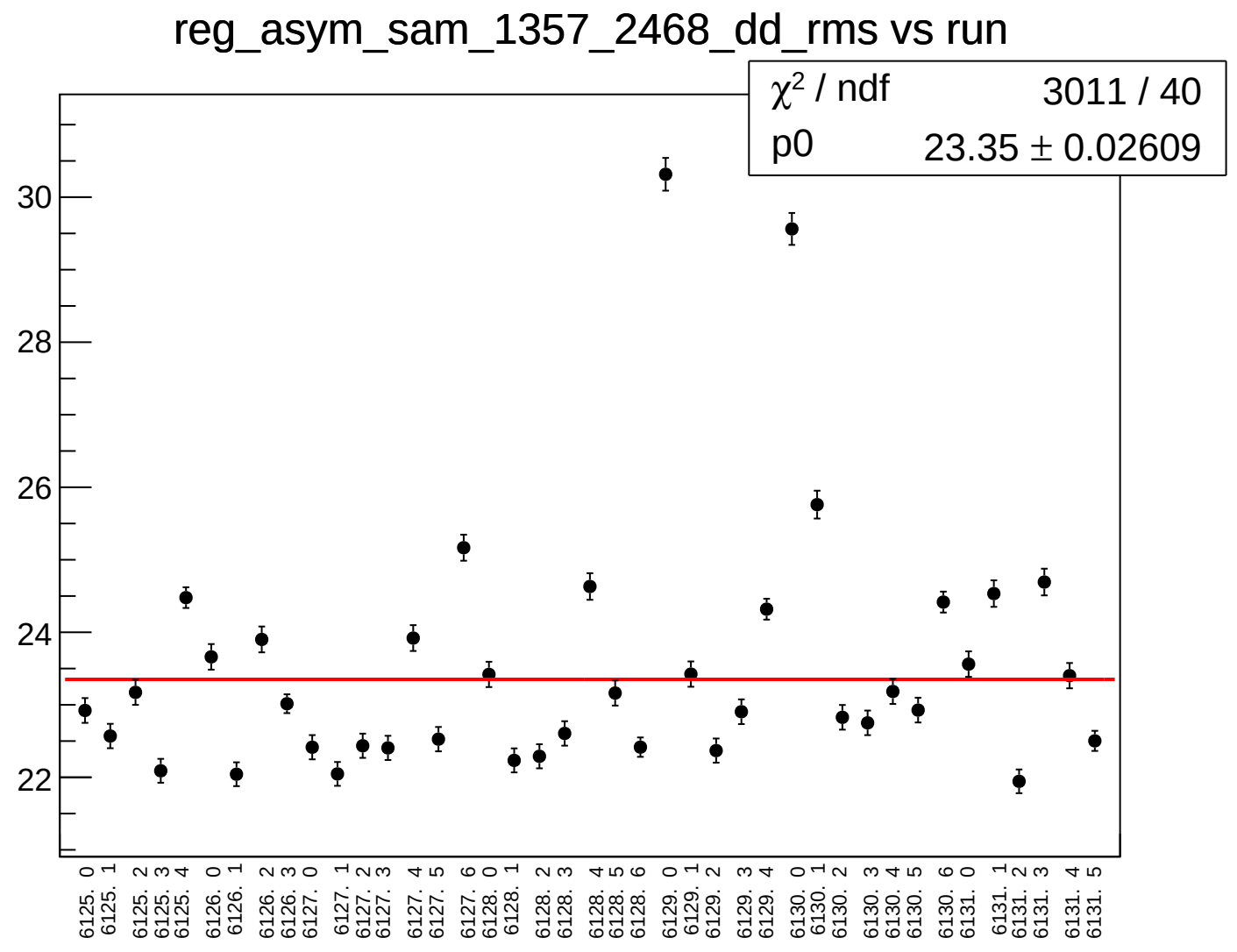

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.14 / 40
p0 6.268e−14 ± 6.7e−14
3
2
1
0
−1
−2
−3
−4
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 15.69
Std Dev 17.76
2
1
0
−1
−2
−3

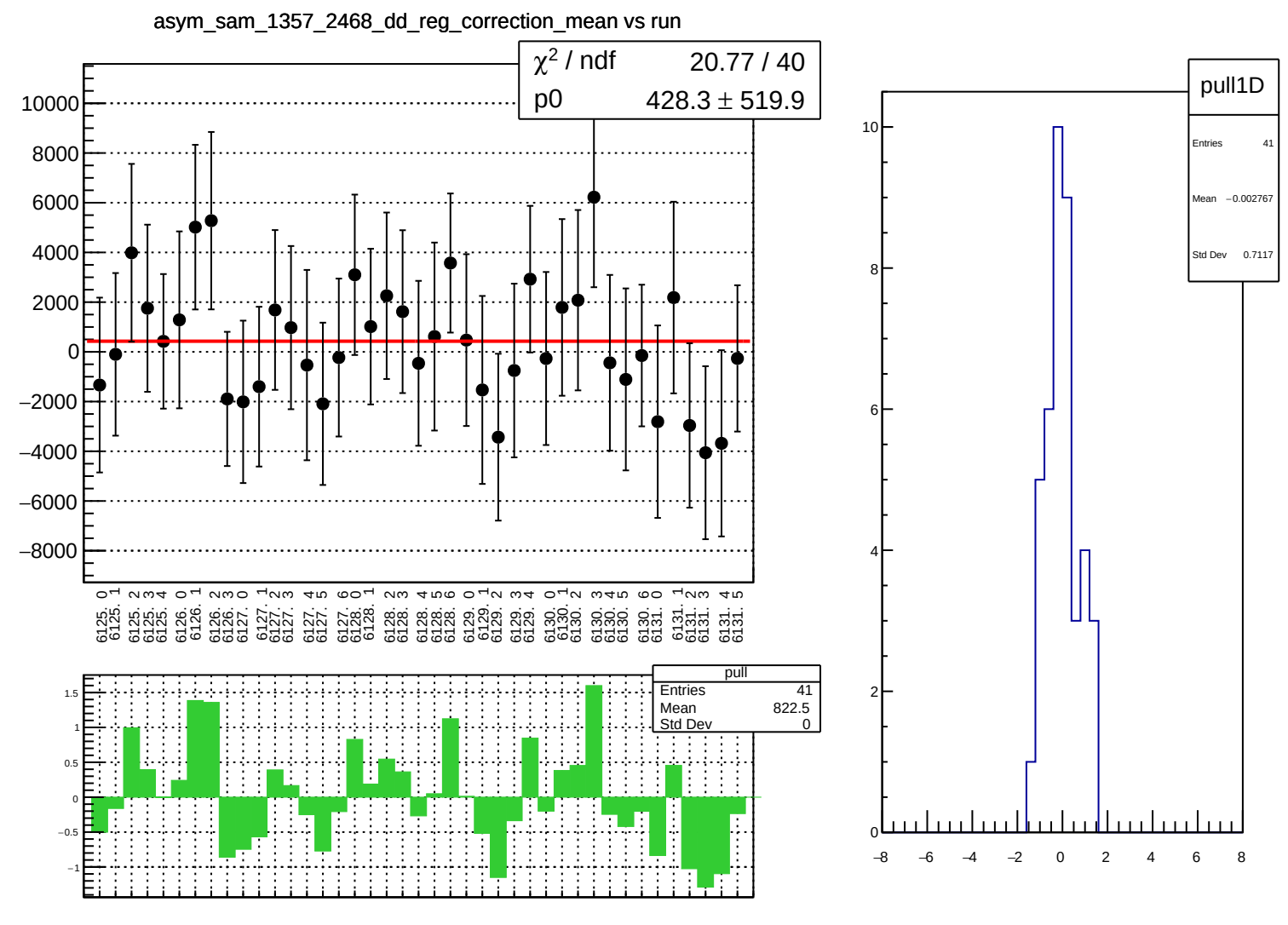

pull1D
Entries 41
Mean −0.102
Std Dev 0.8794
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

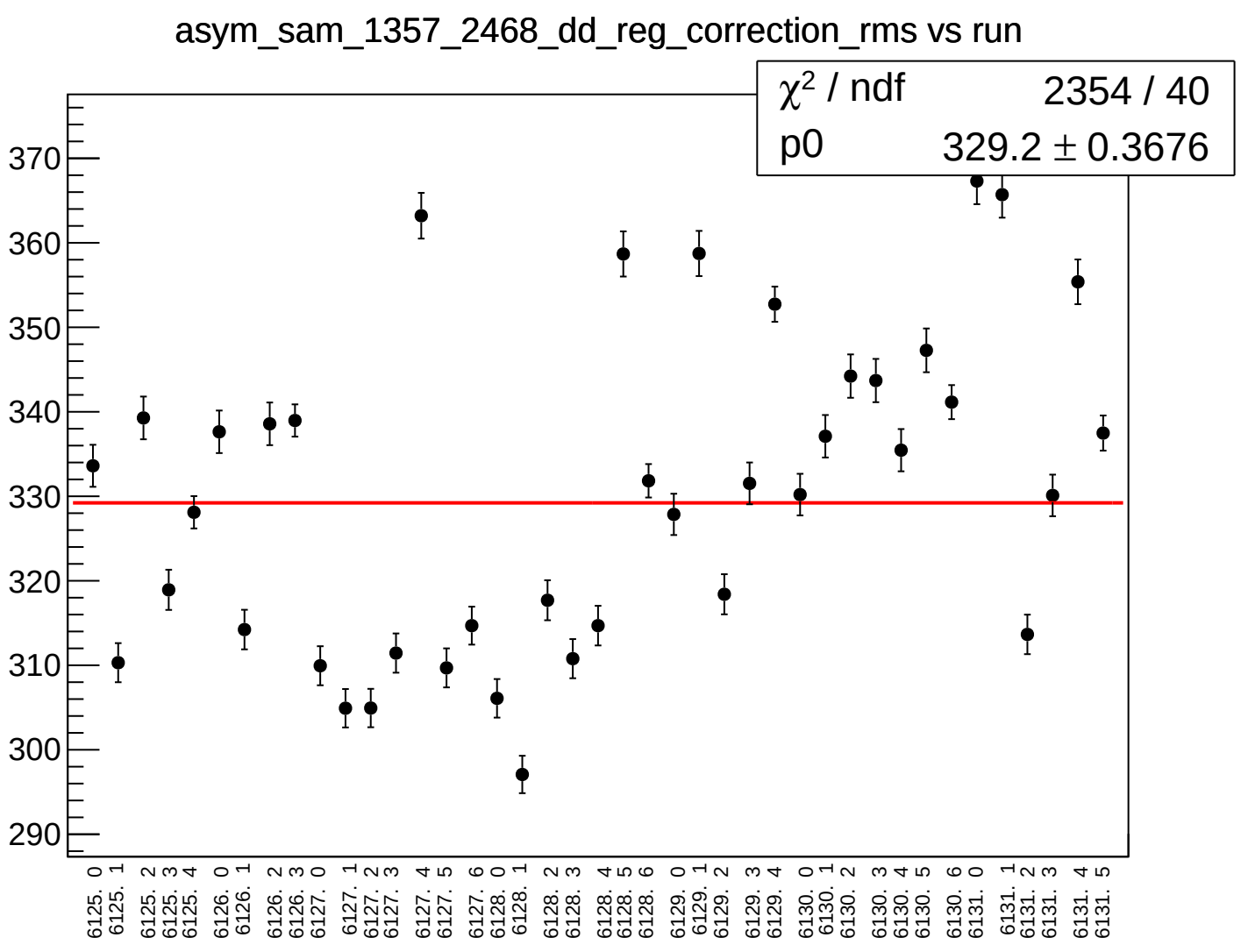

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.202e+05 / 40
p0 3.621e−11 ± 4.738e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

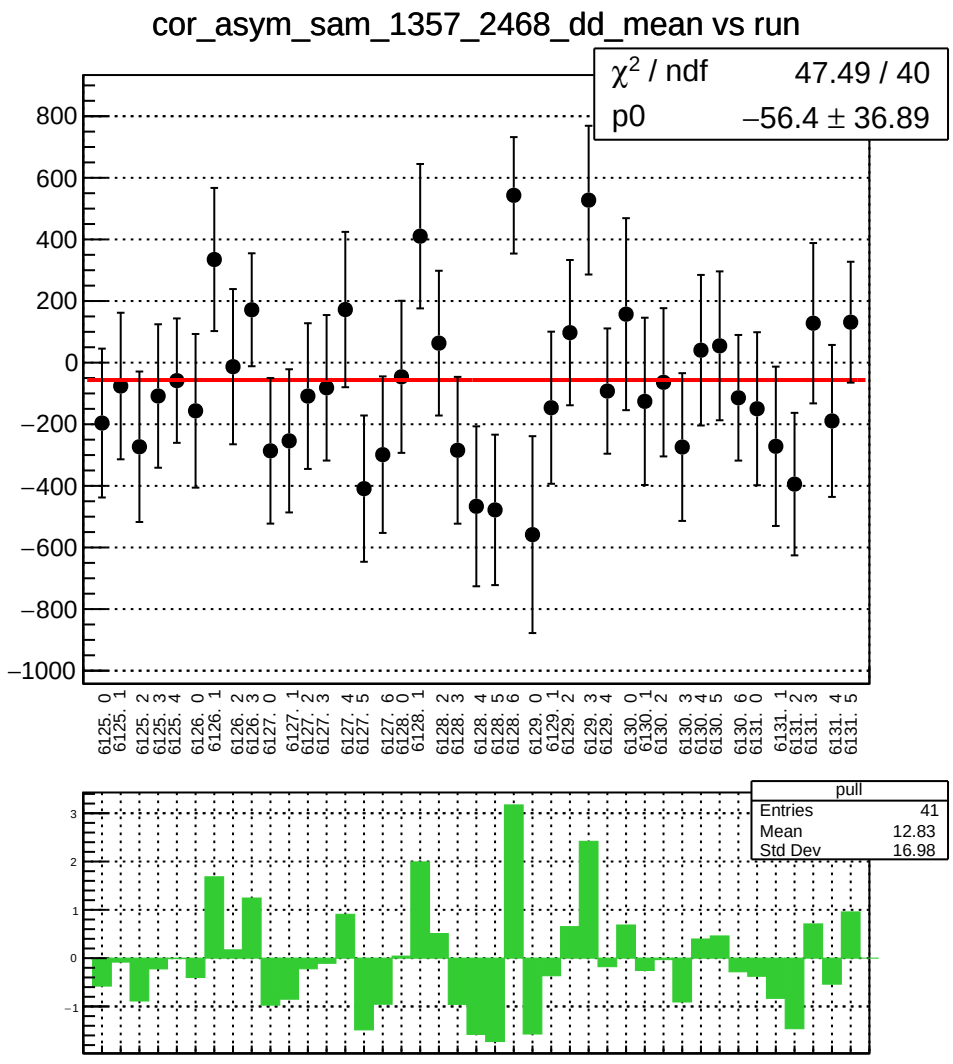

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 47.49 / 40
p0 −56.4 ± 36.89
pull
Entries 41
Mean 12.83
Std Dev 16.98

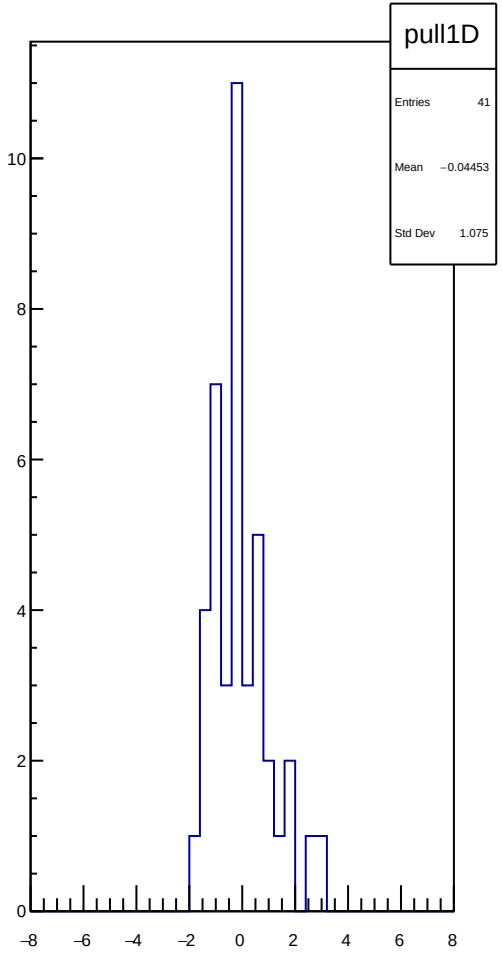

pull1D
Entries 41
Mean −0.04453
Std Dev 1.075

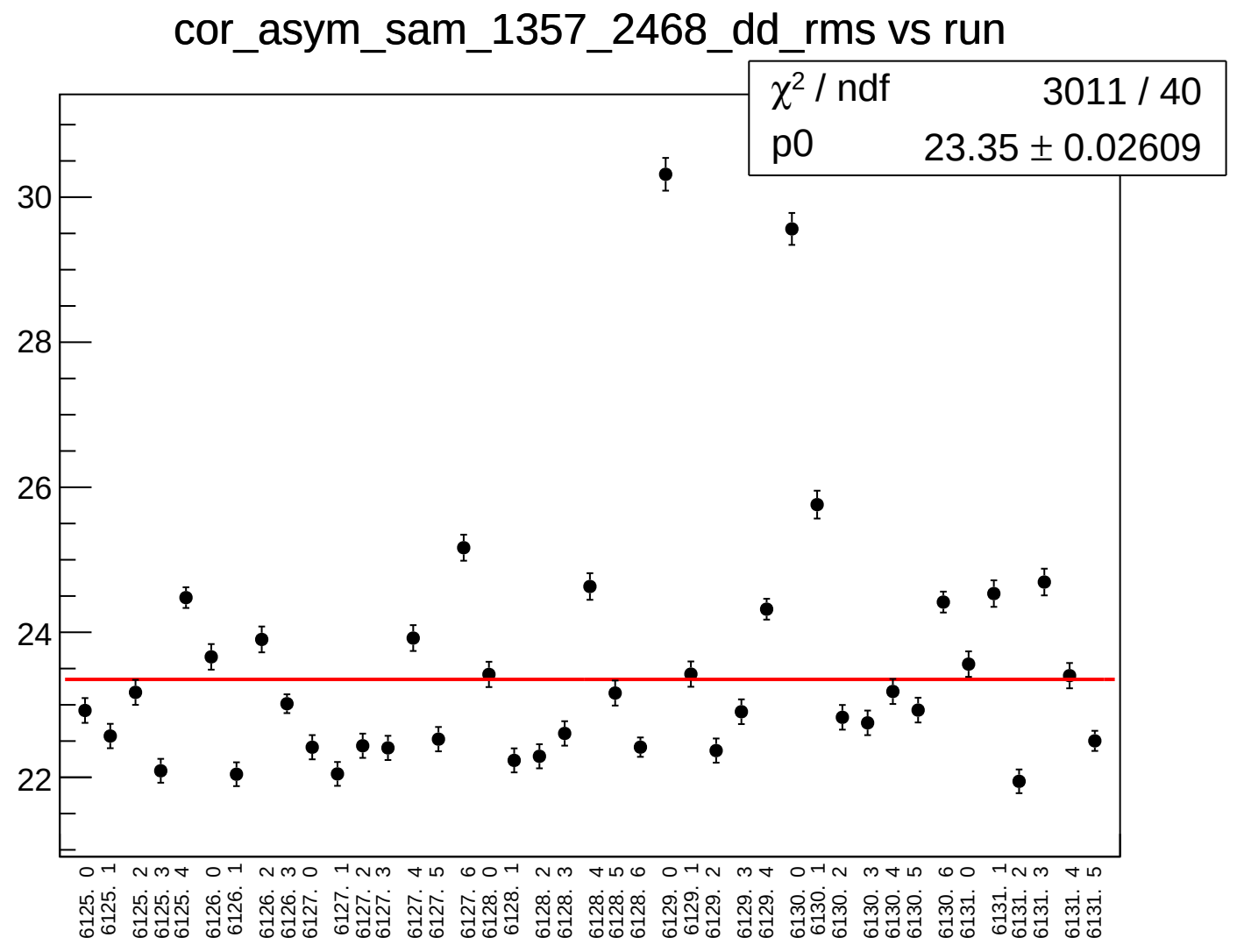

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3011 / 40
p0 23.35 ± 0.02609
30
28
26
24
22
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

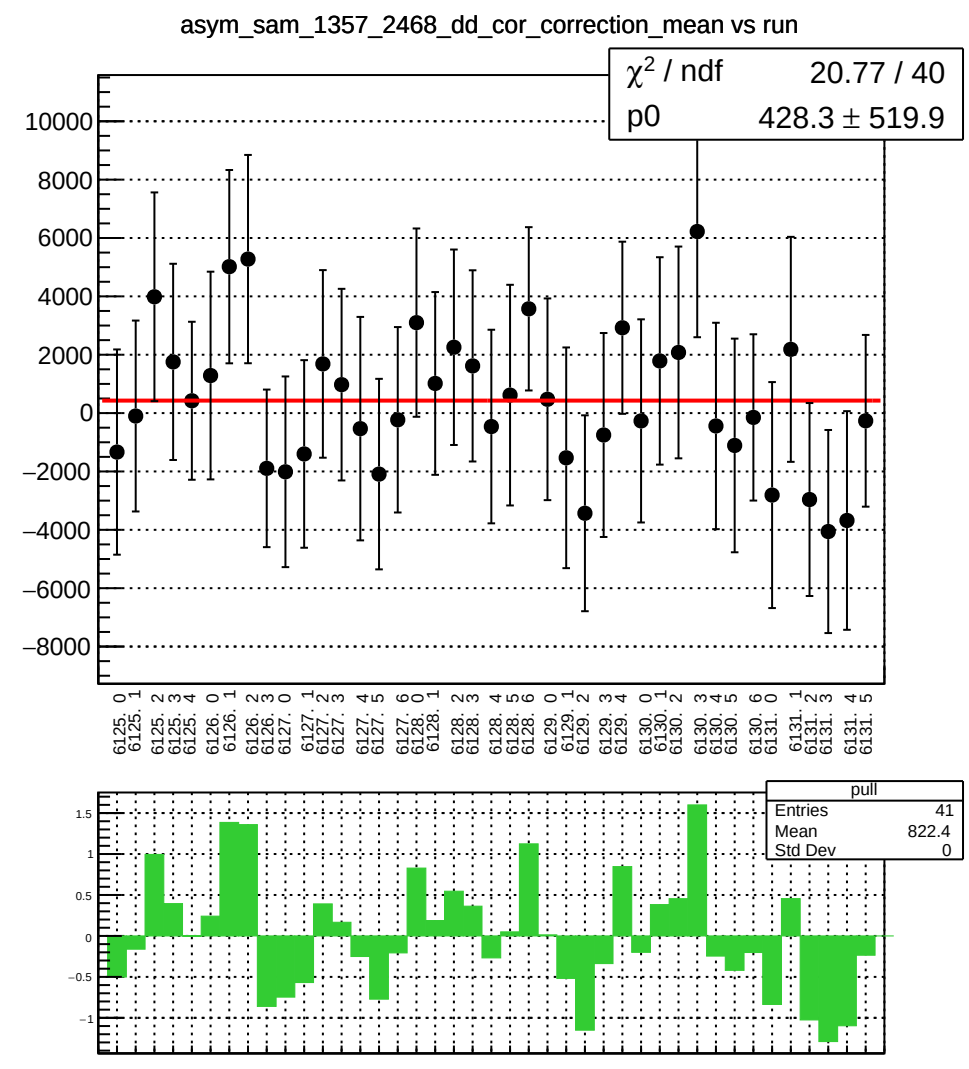

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 20.77 / 40
p0 428.3 ± 519.9
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 822.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.002767
Std Dev 0.7117
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

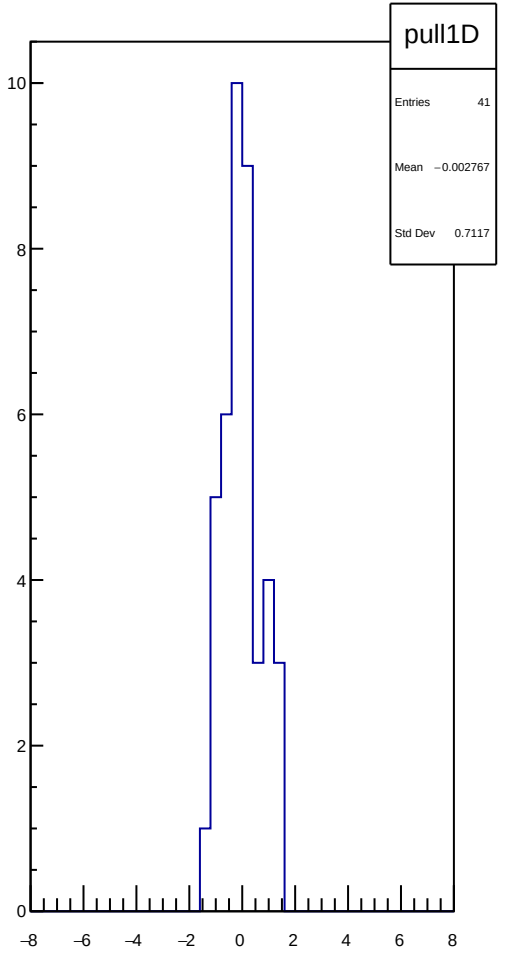

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 2354 / 40
p0 329.2 ± 0.3676
370
360
350
340
330
320
310
300
290
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

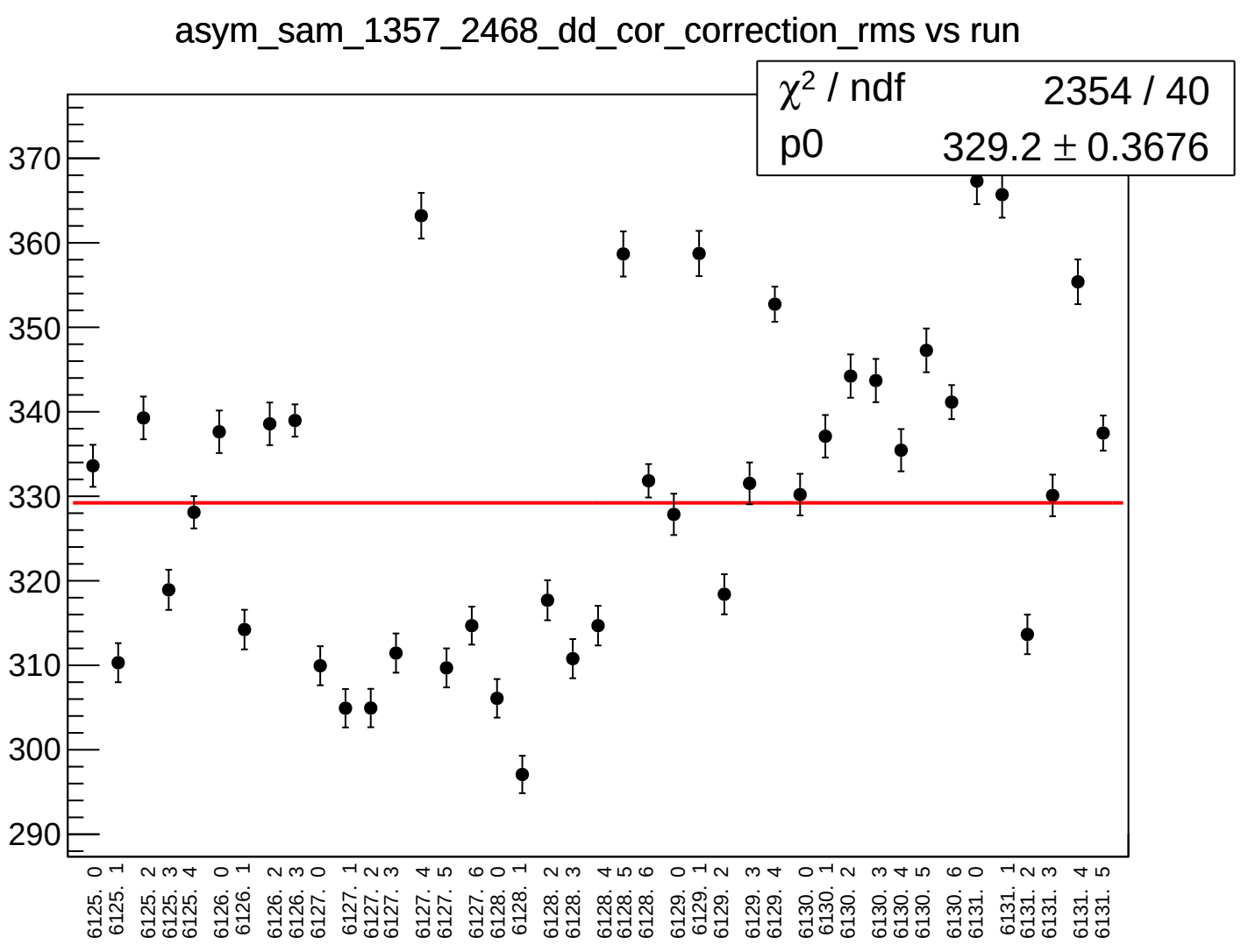

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 47.49 / 40
p0 −56.4 ± 36.89
pull
Entries 41
Mean 12.83
Std Dev 16.98

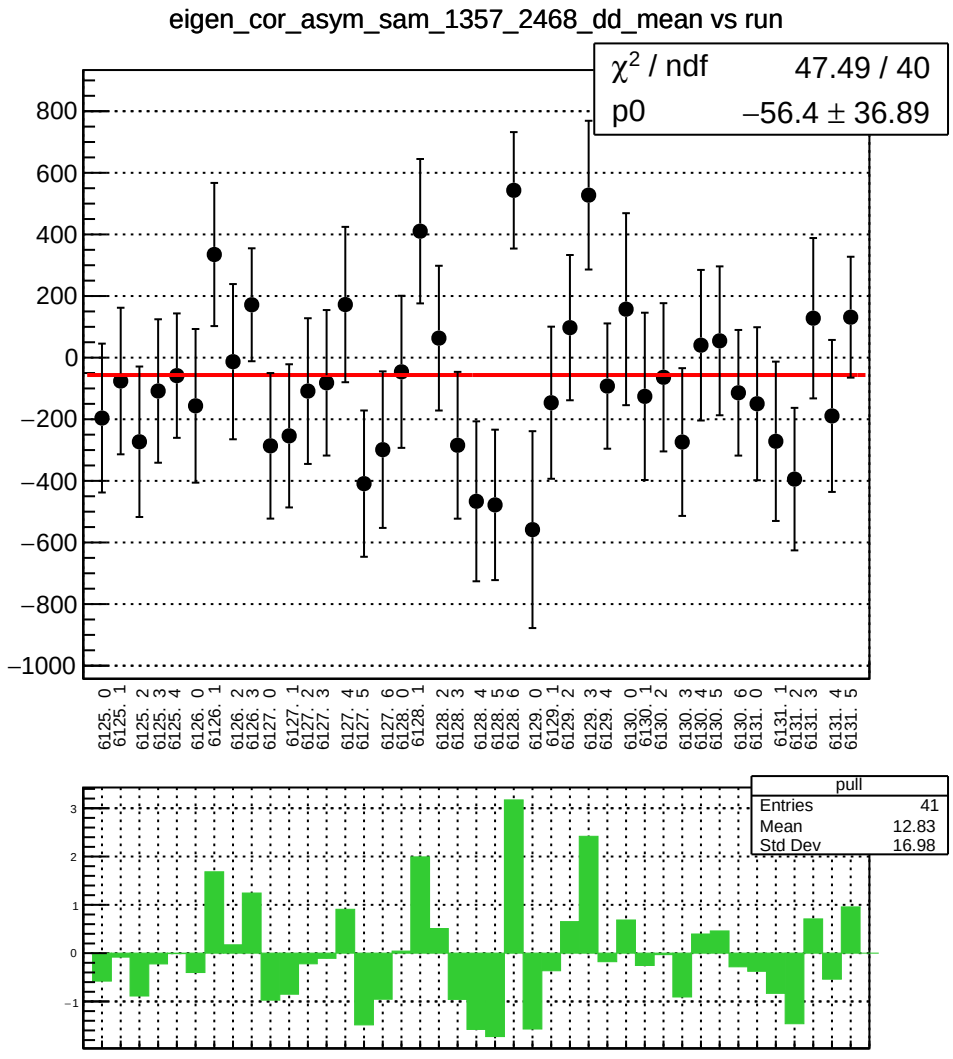

pull1D
Entries 41
Mean −0.04453
Std Dev 1.075

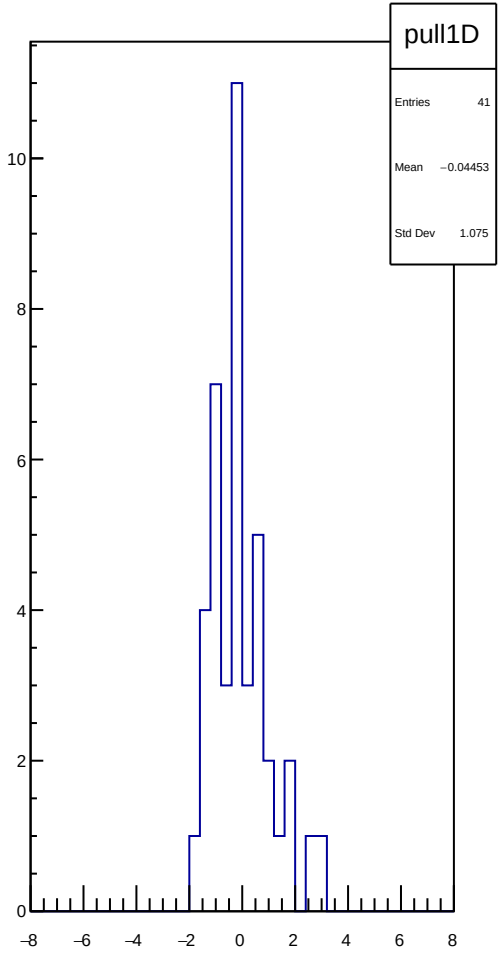

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3011 / 40
p0 23.35 ± 0.02609
30
28
26
24
22
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

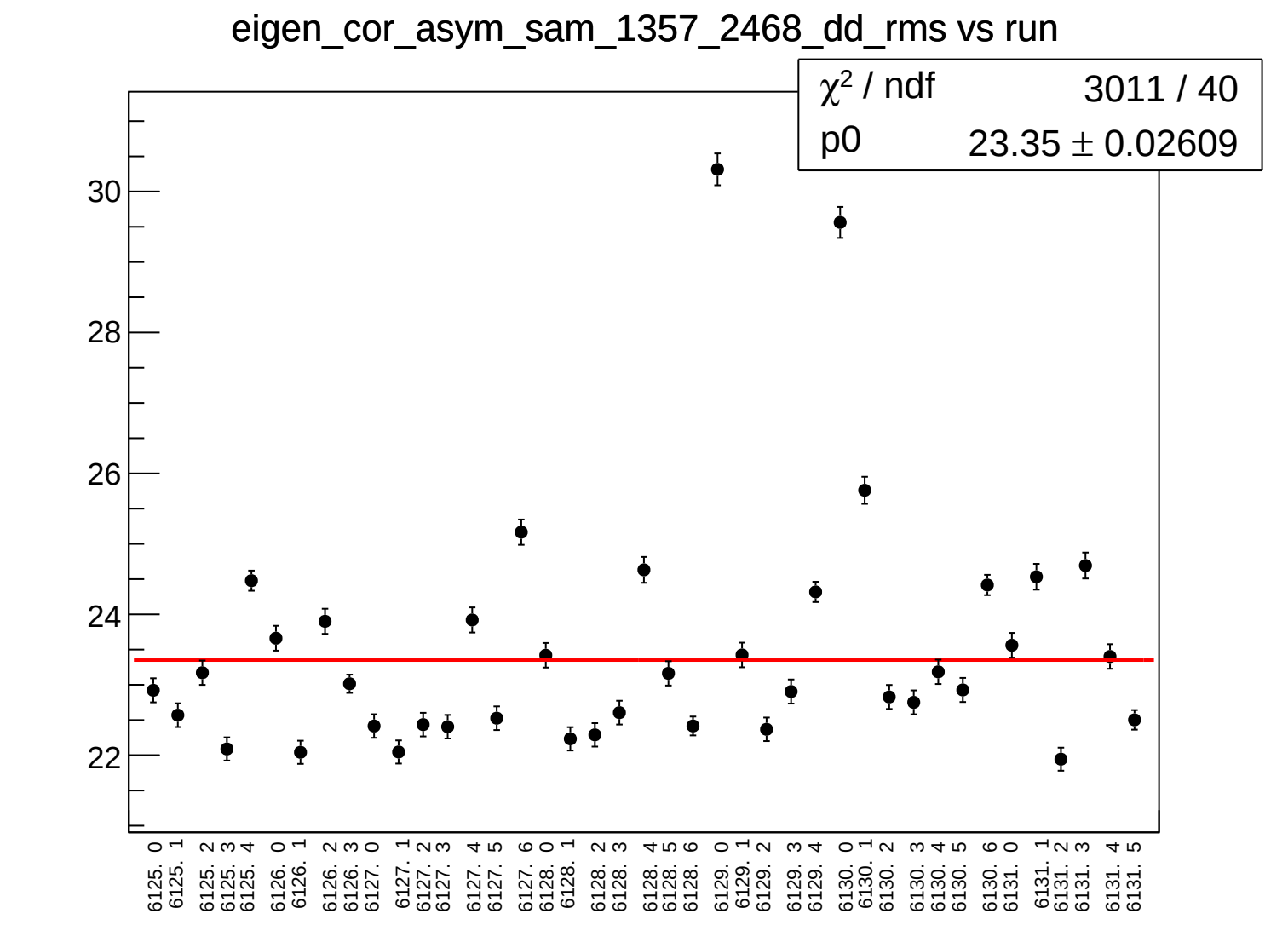

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 20.77 / 40
p0 428.3 ± 519.9
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 822.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

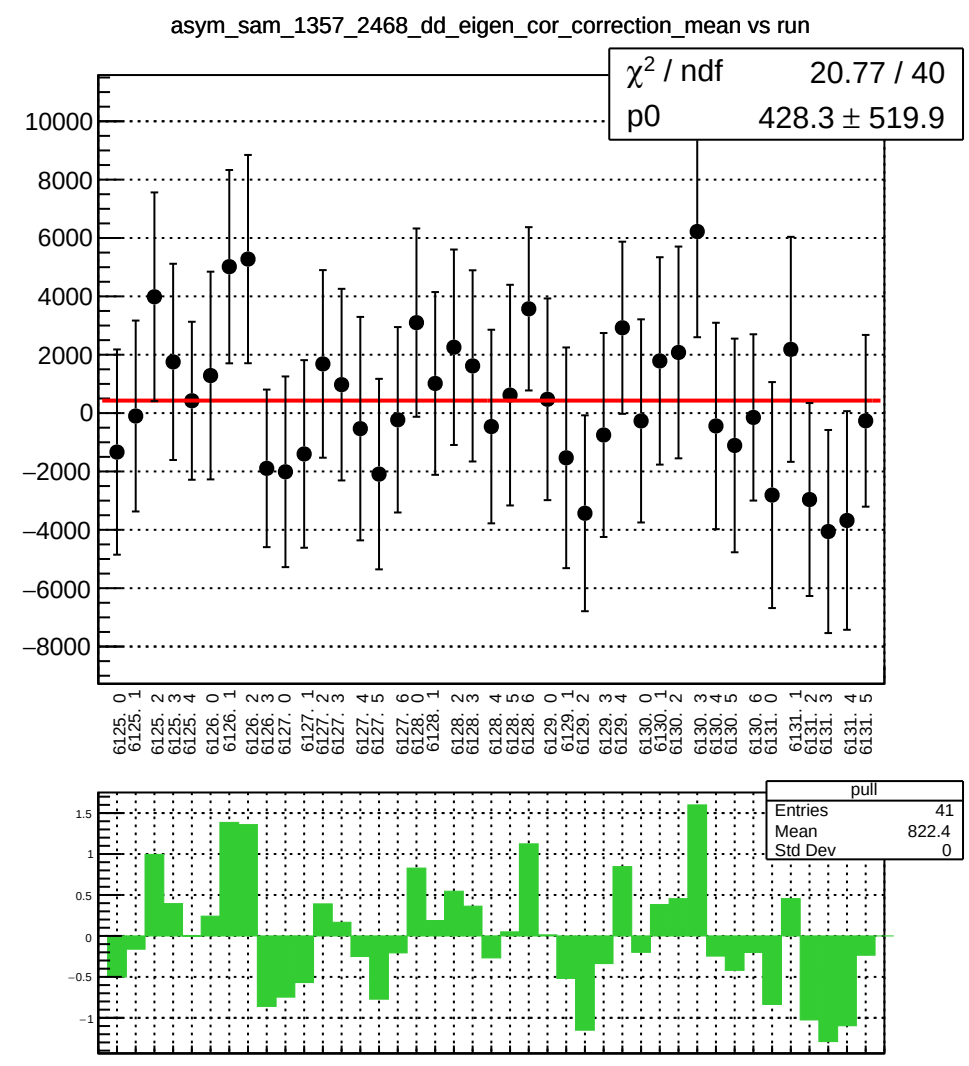

pull1D
Entries 41
Mean −0.002767
Std Dev 0.7117
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

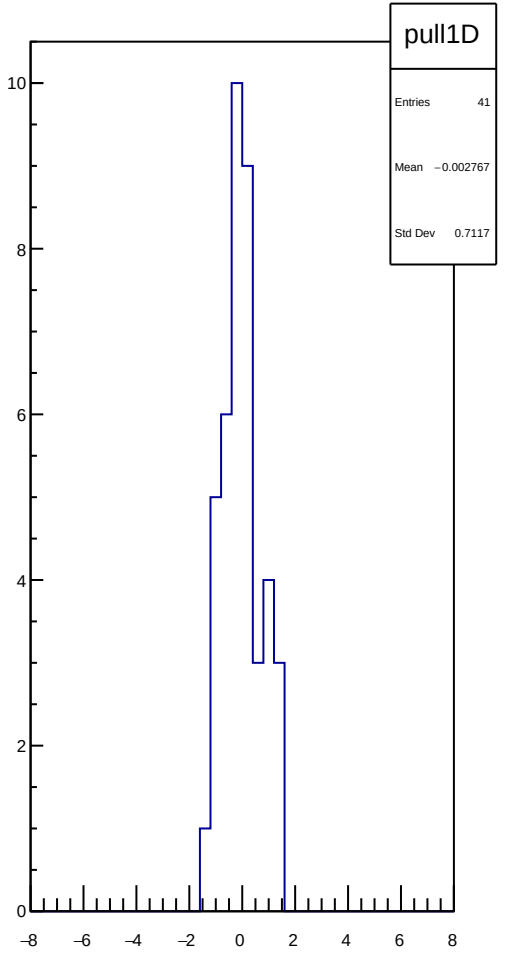

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 2354 / 40
p0 329.2 ± 0.3676
370
360
350
340
330
320
310
300
290
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

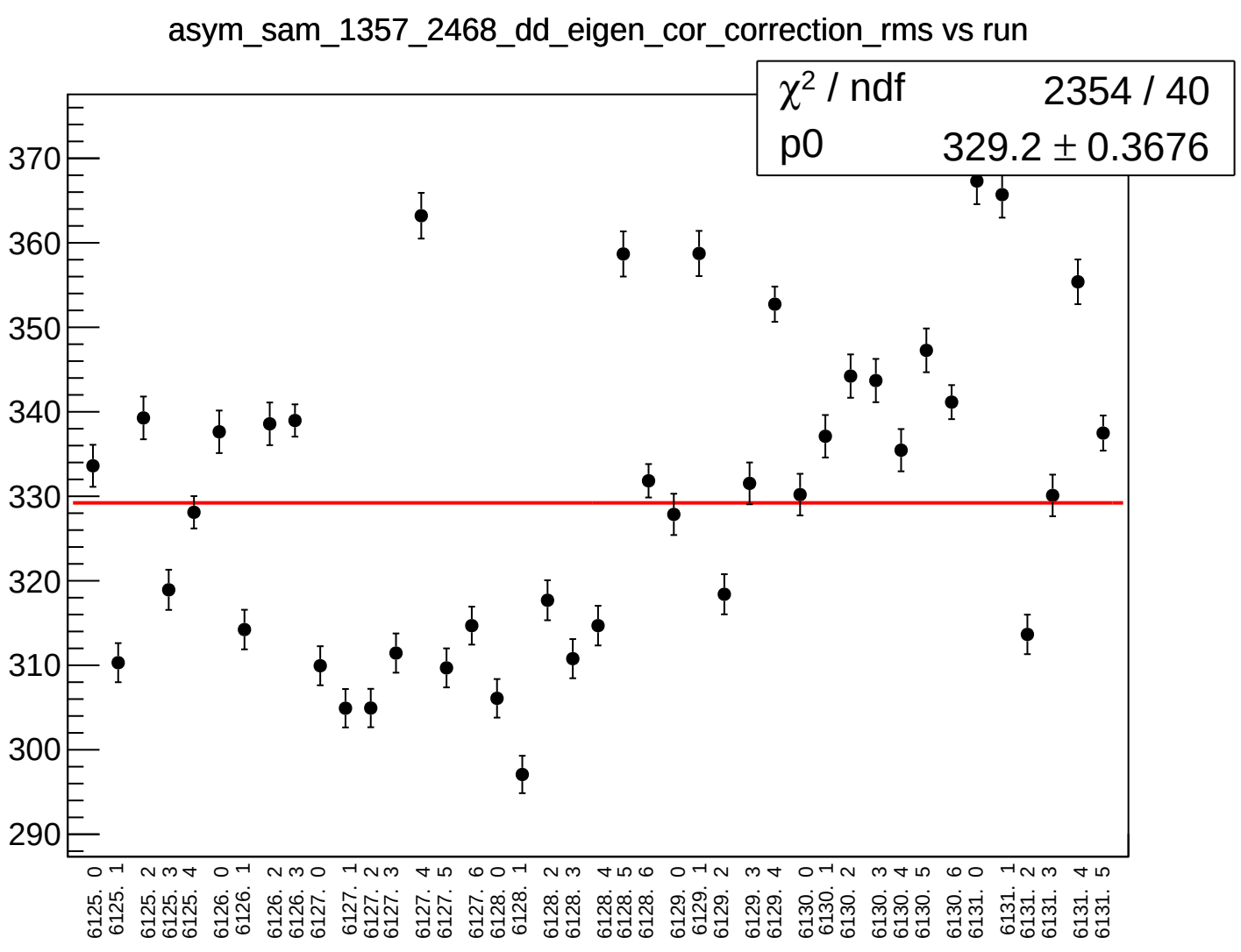

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 47.49 / 40
p0 −56.4 ± 36.89
pull
Entries 41
Mean 12.83
Std Dev 16.98

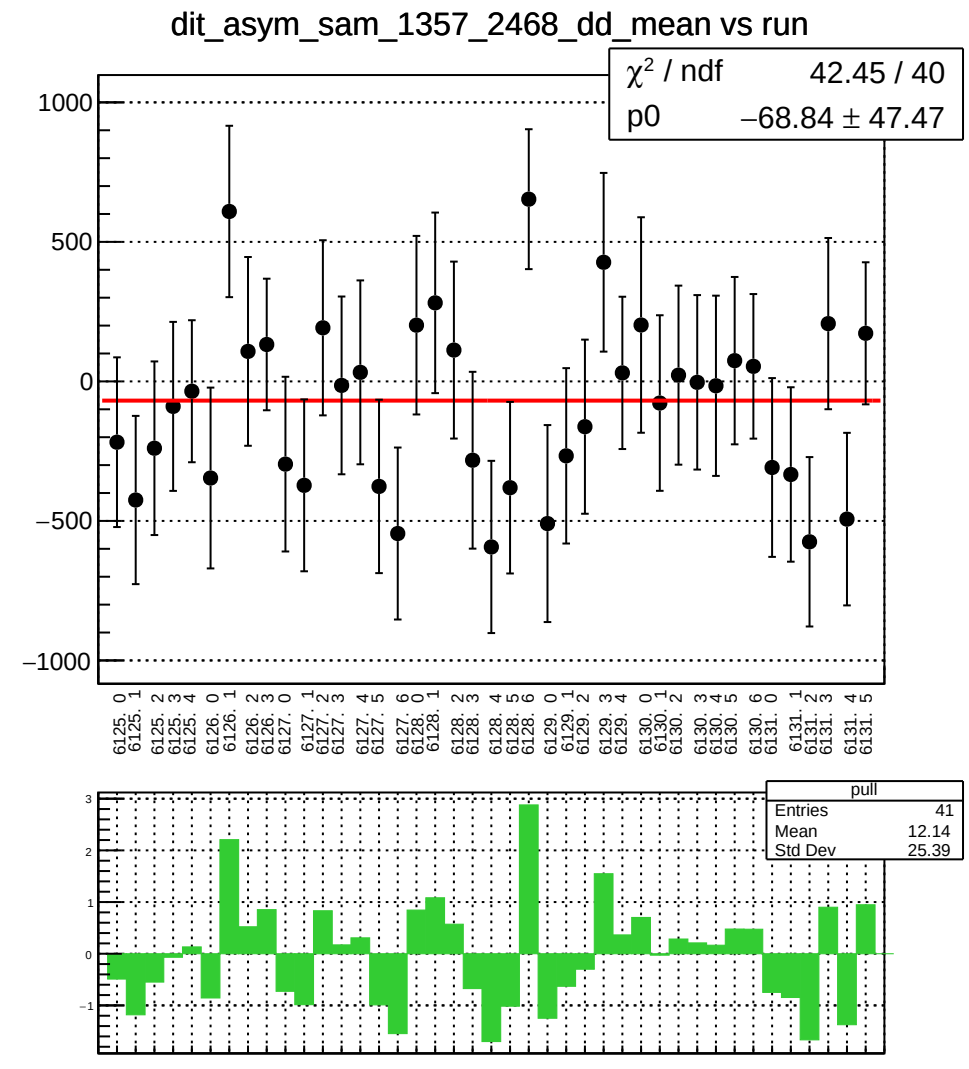

pull1D
Entries 41
Mean −0.04453
Std Dev 1.075

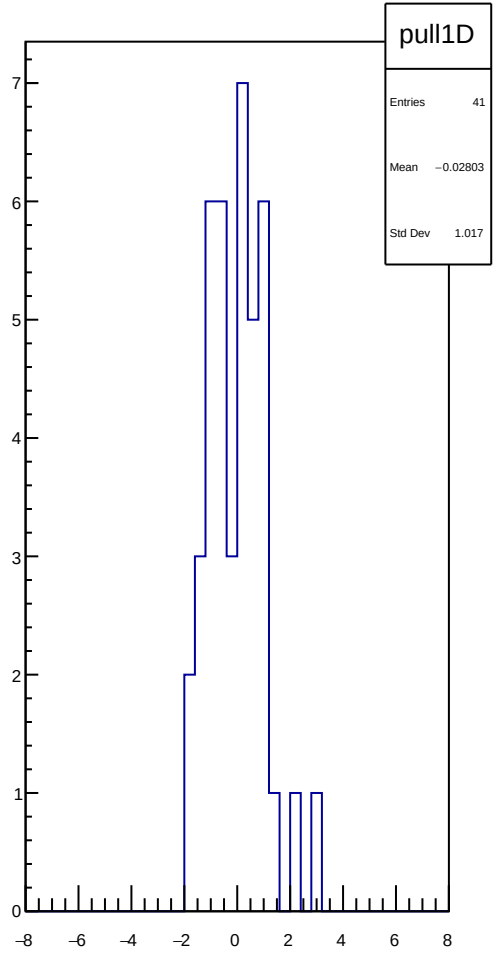

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3011 / 40
p0 23.35 ± 0.02609
30
28
26
24
22
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

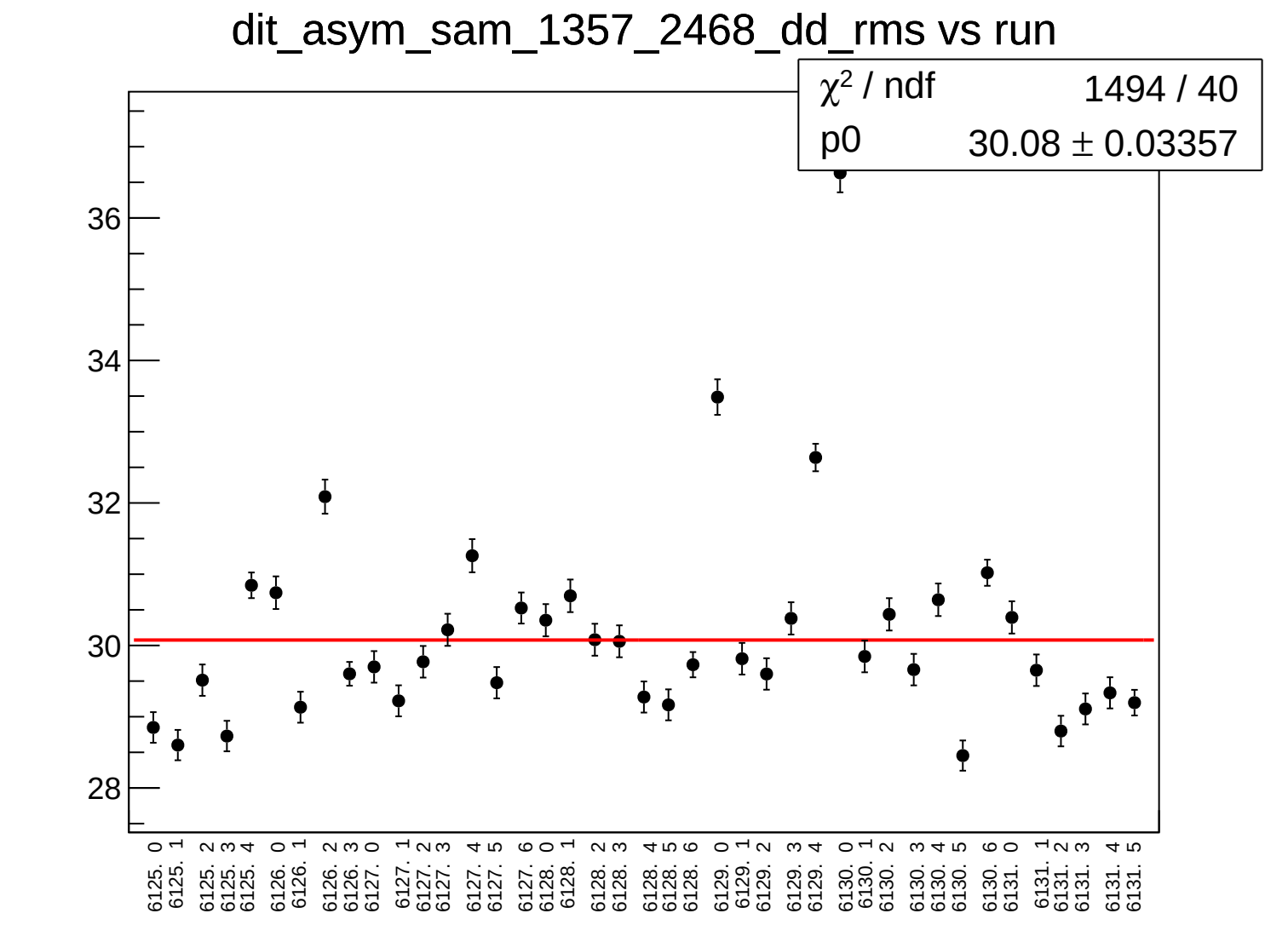

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 20.77 / 40
p0 428.3 ± 519.9
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 822.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

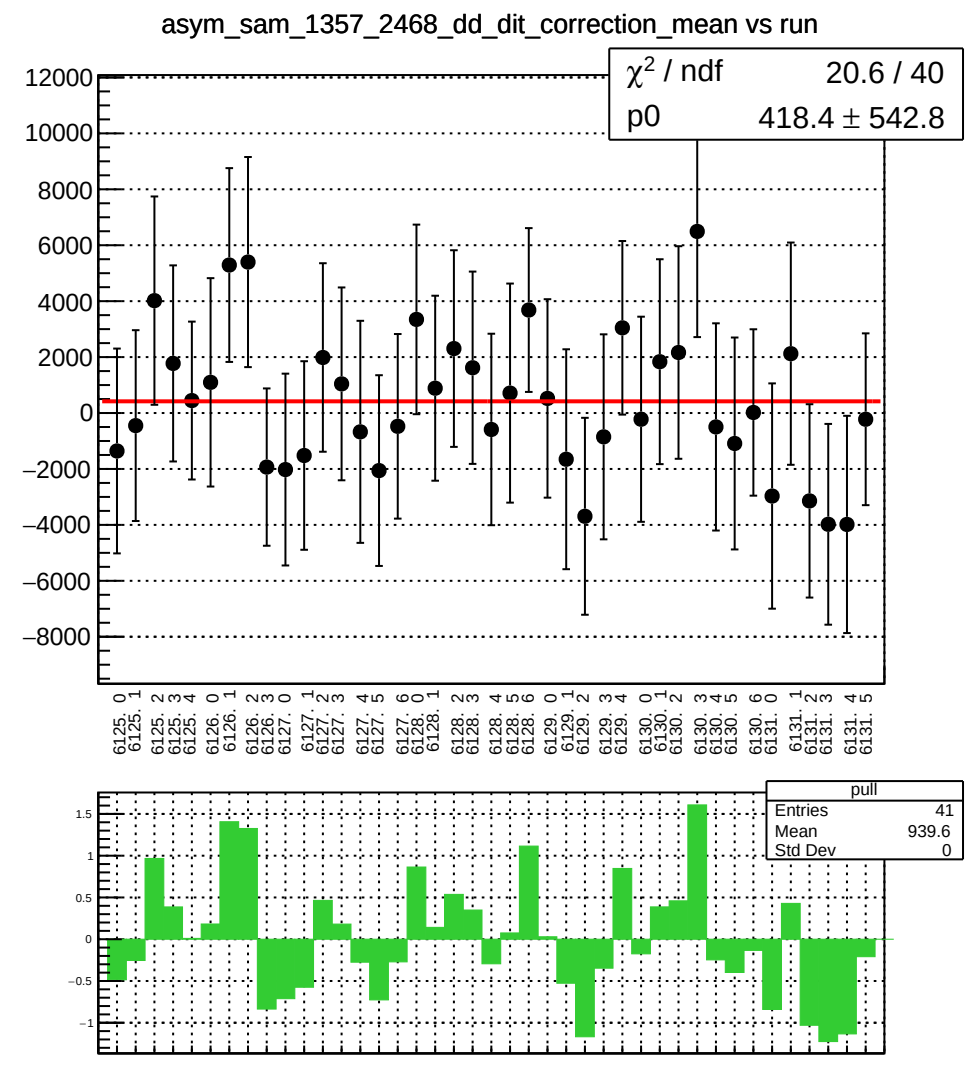

pull1D
Entries 41
Mean −0.002767
Std Dev 0.7117
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

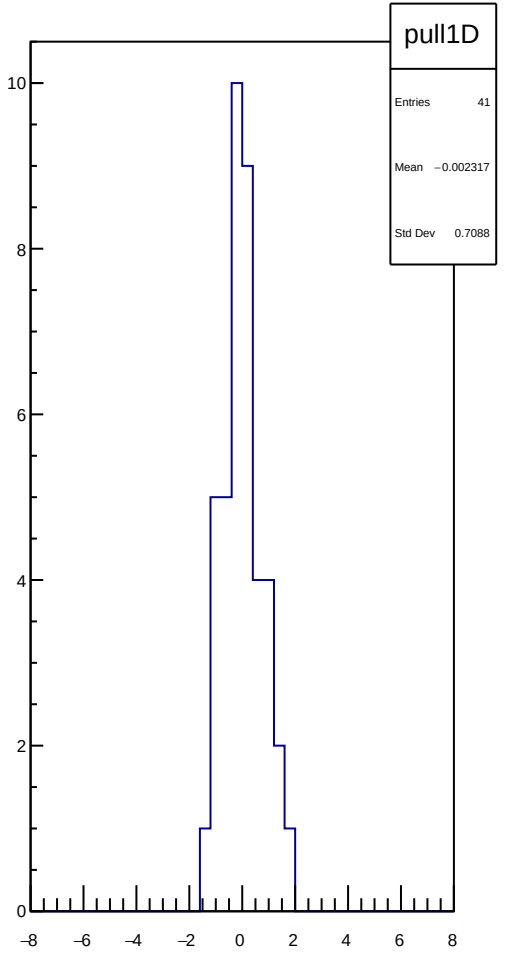

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 2354 / 40
p0 329.2 ± 0.3676
370
360
350
340
330
320
310
300
290
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

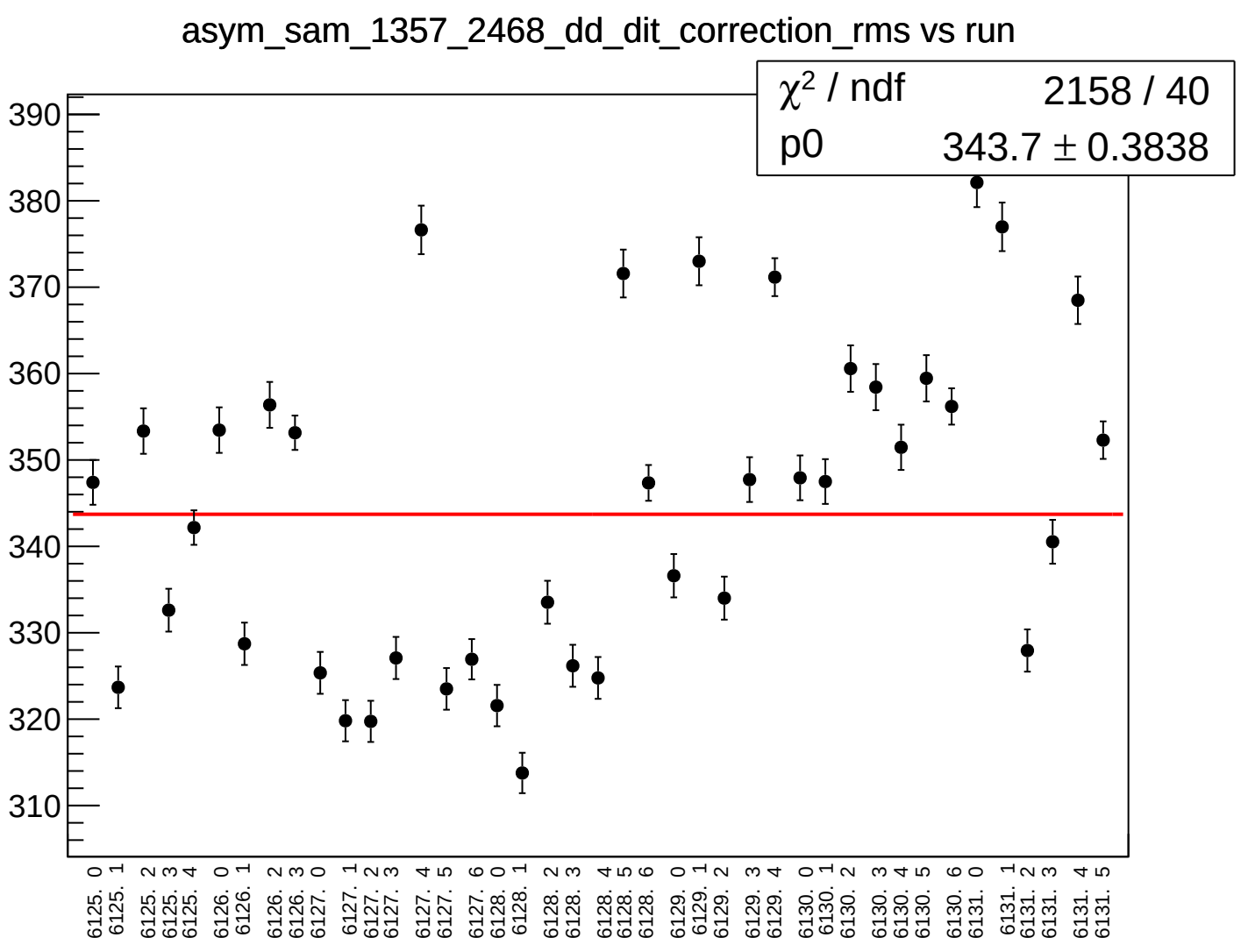

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 42.45 / 40
p0 −68.84 ± 47.47
1000
500
0
−500
−1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 12.14
Std Dev 25.39
3
2
1
0
−1

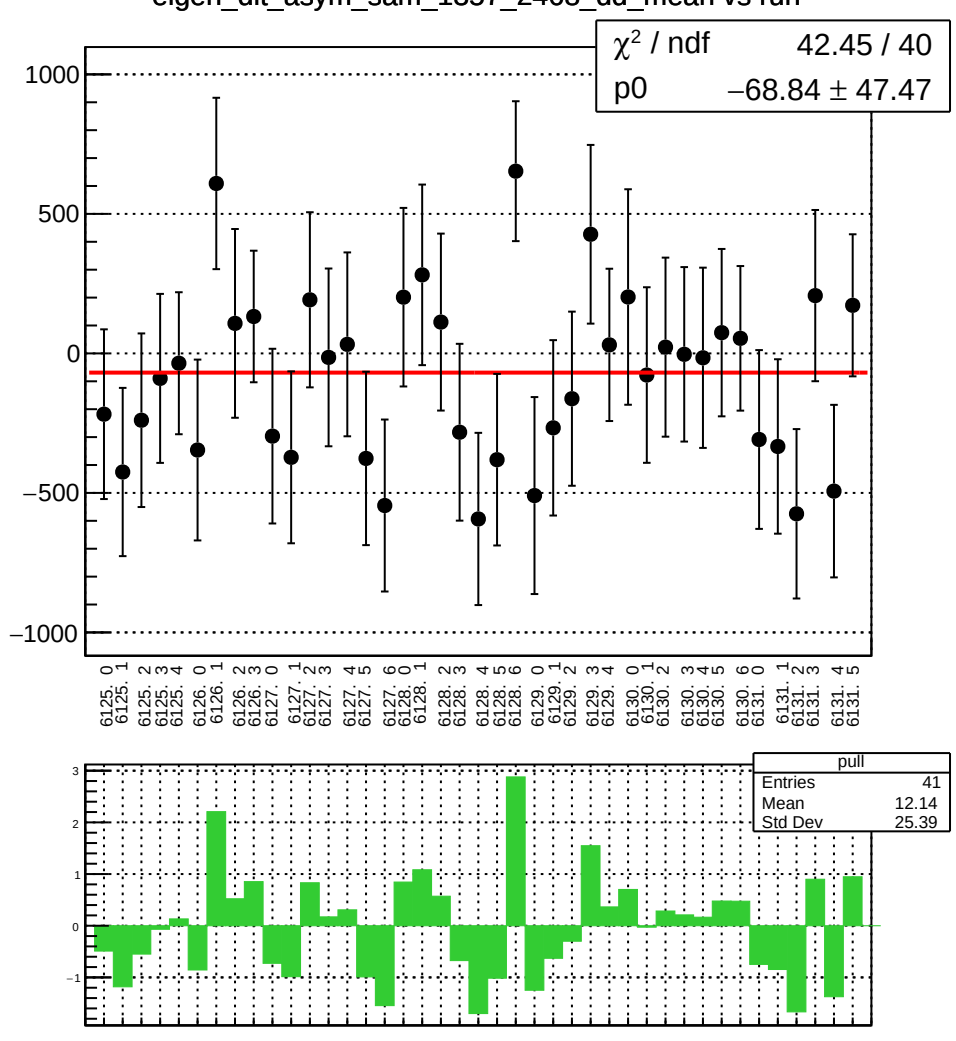

pull1D
Entries 41
Mean −0.02803
Std Dev 1.017
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

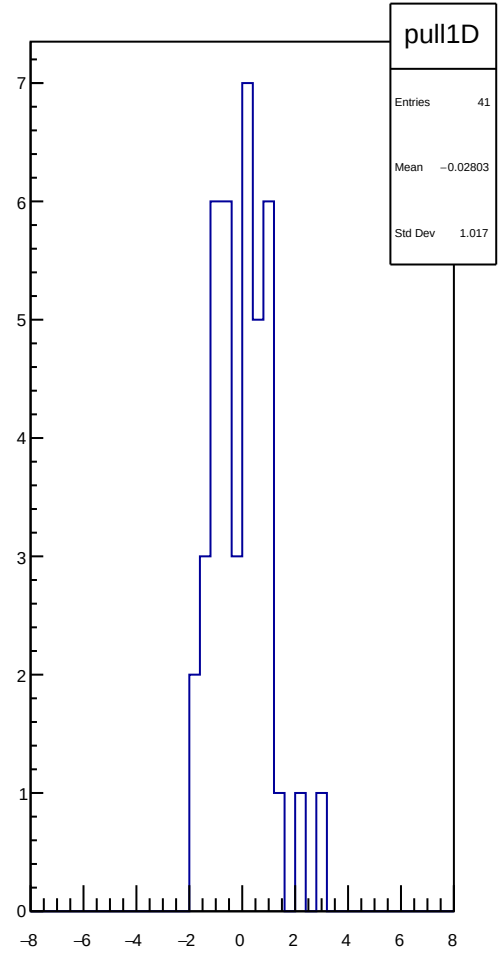

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1494 / 40
p0 30.08 ± 0.03357
36
34
32
30
28
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

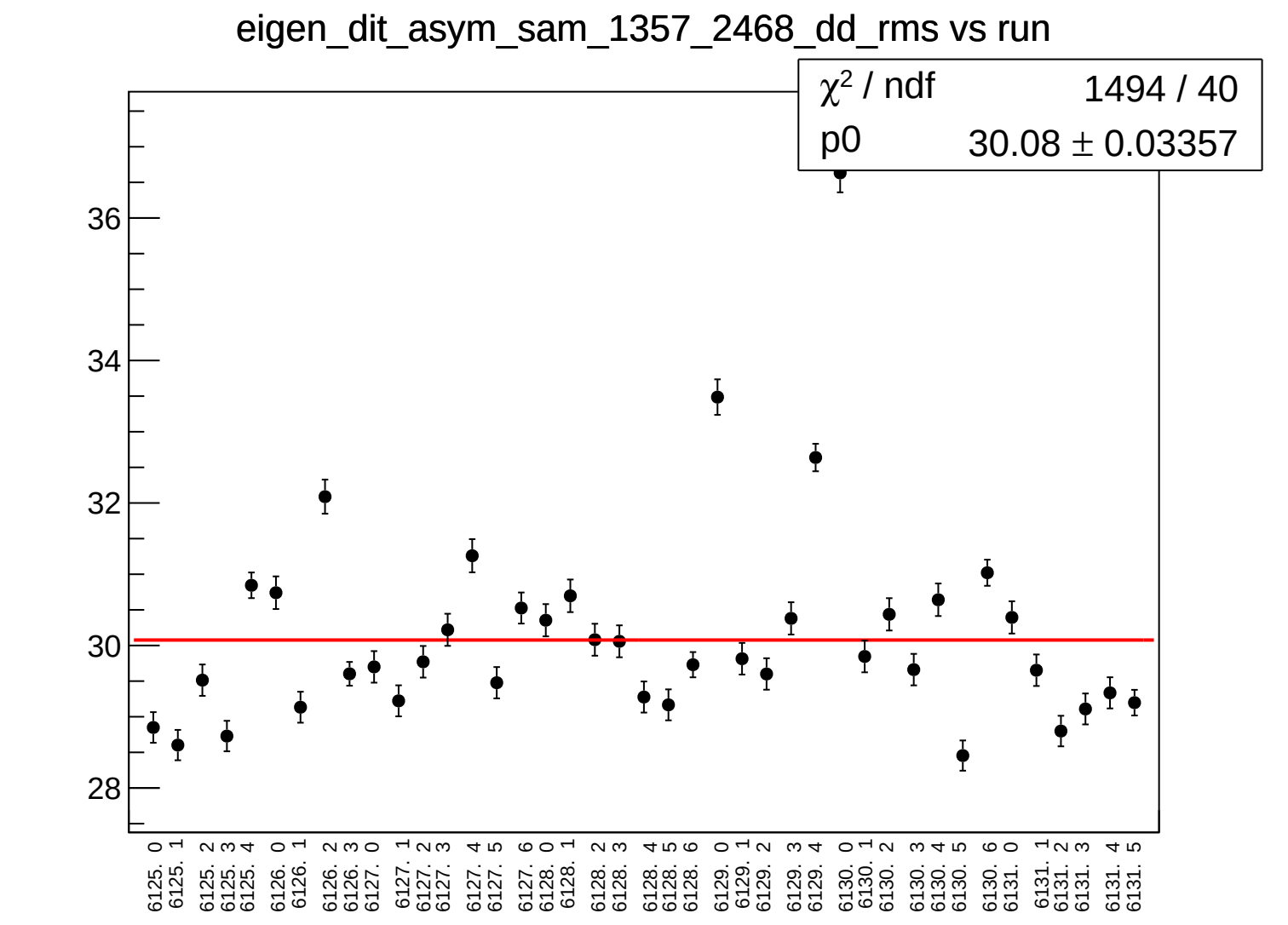

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 20.6 / 40
p0 418.4 ± 542.8
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 939.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1

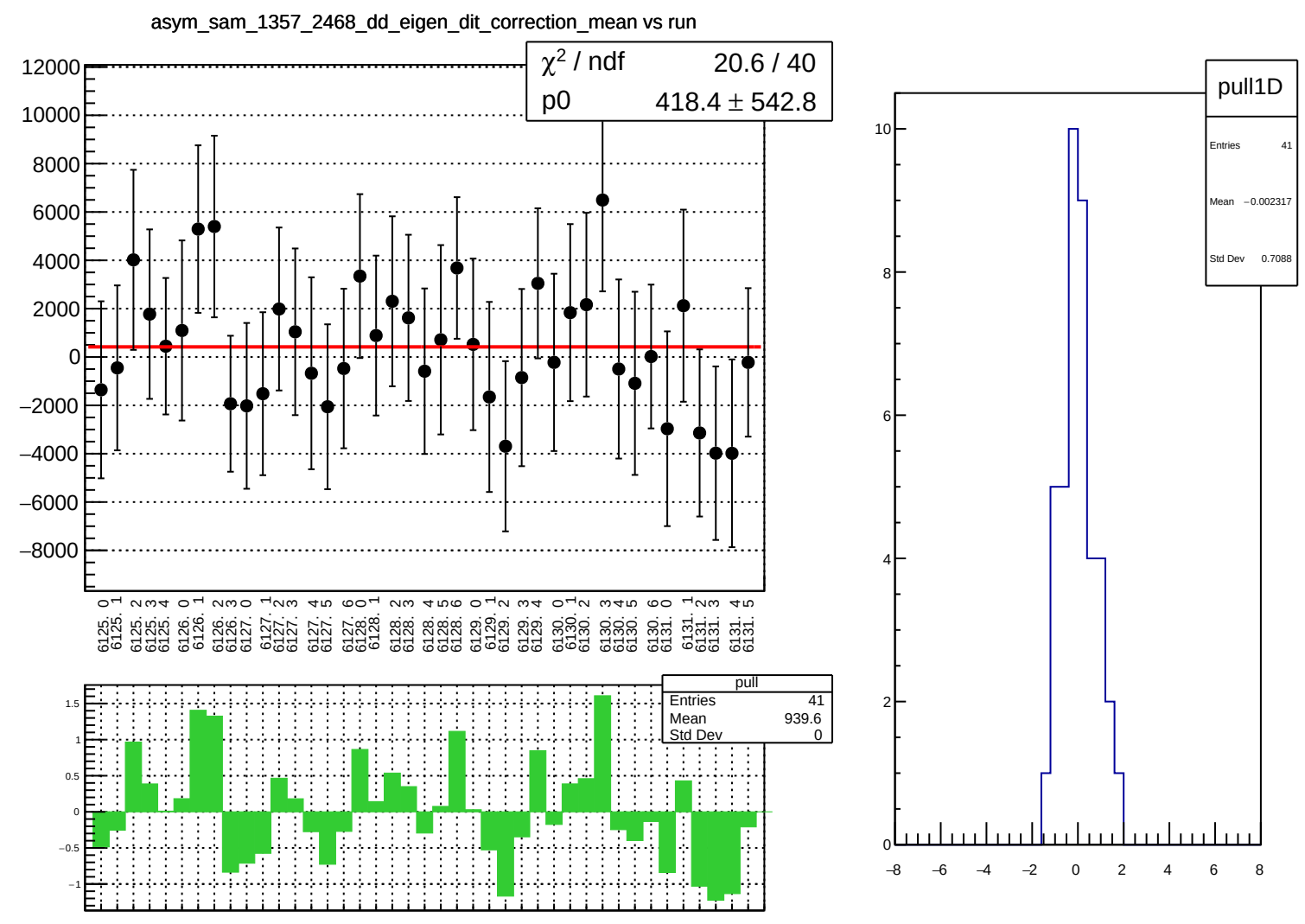

pull1D
Entries 41
Mean −0.002317
Std Dev 0.7088
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 2158 / 40
p0 343.7 ± 0.3838
390
380
370
360
350
340
330
320
310
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 42.45 / 40
p0 −68.84 ± 47.47
1000
500
0
−500
−1000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 12.14
Std Dev 25.39
3
2
1
0
−1


pull1D
Entries 41
Mean −0.02803
Std Dev 1.017
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 1494 / 40
p0 30.08 ± 0.03357
36
34
32
30
28
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5


asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 20.6 / 40
p0 418.4 ± 542.8
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
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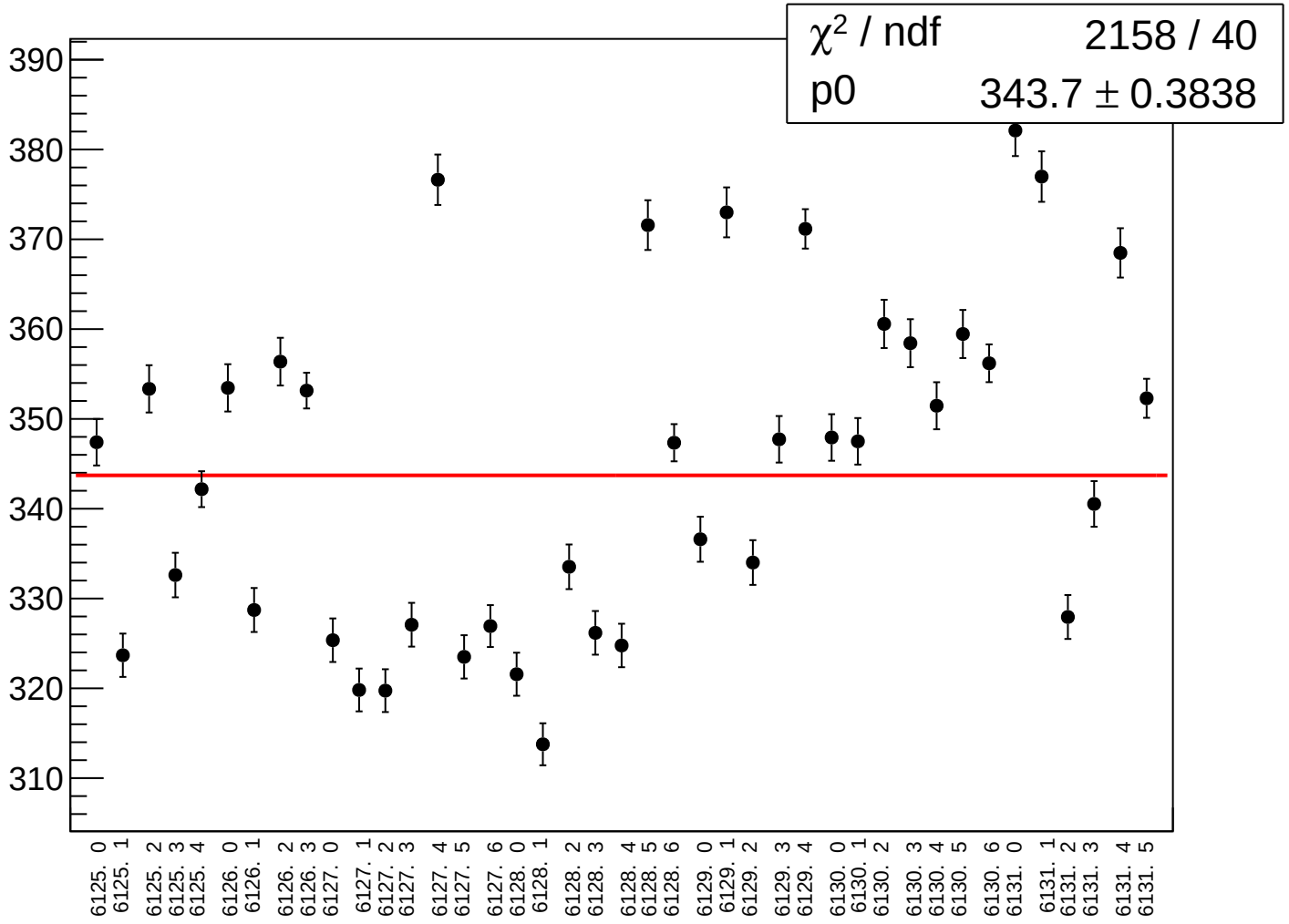
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 939.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.002317
Std Dev 0.7088
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 2158 / 40
p0 343.7 ± 0.3838
390
380
370
360
350
340
330
320
310
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
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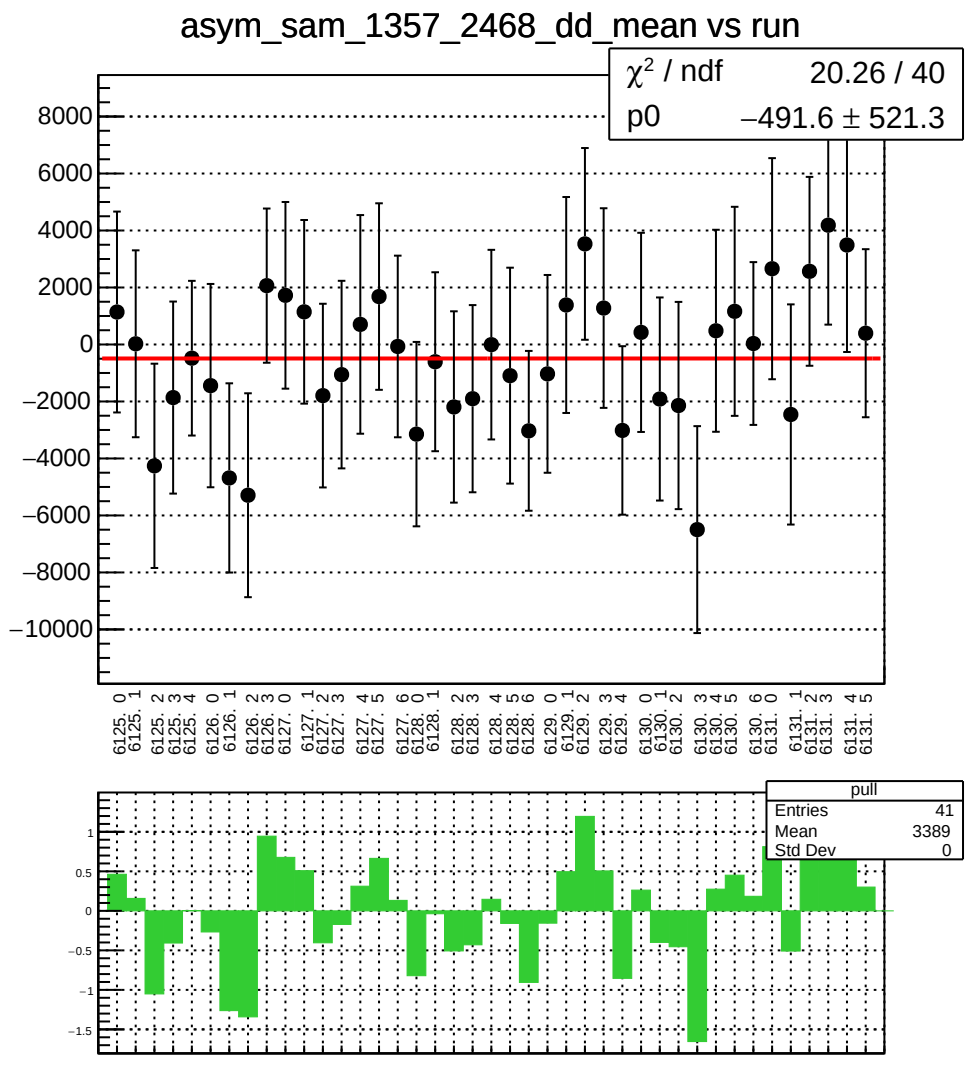
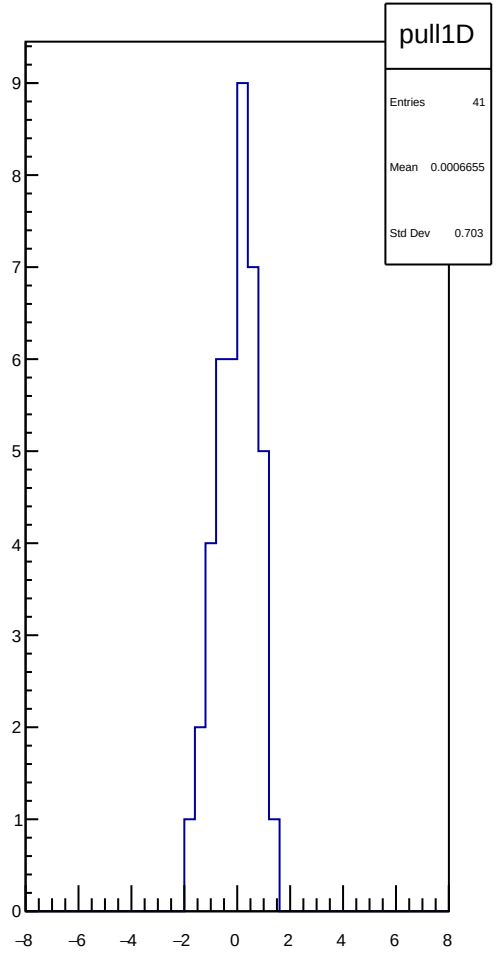
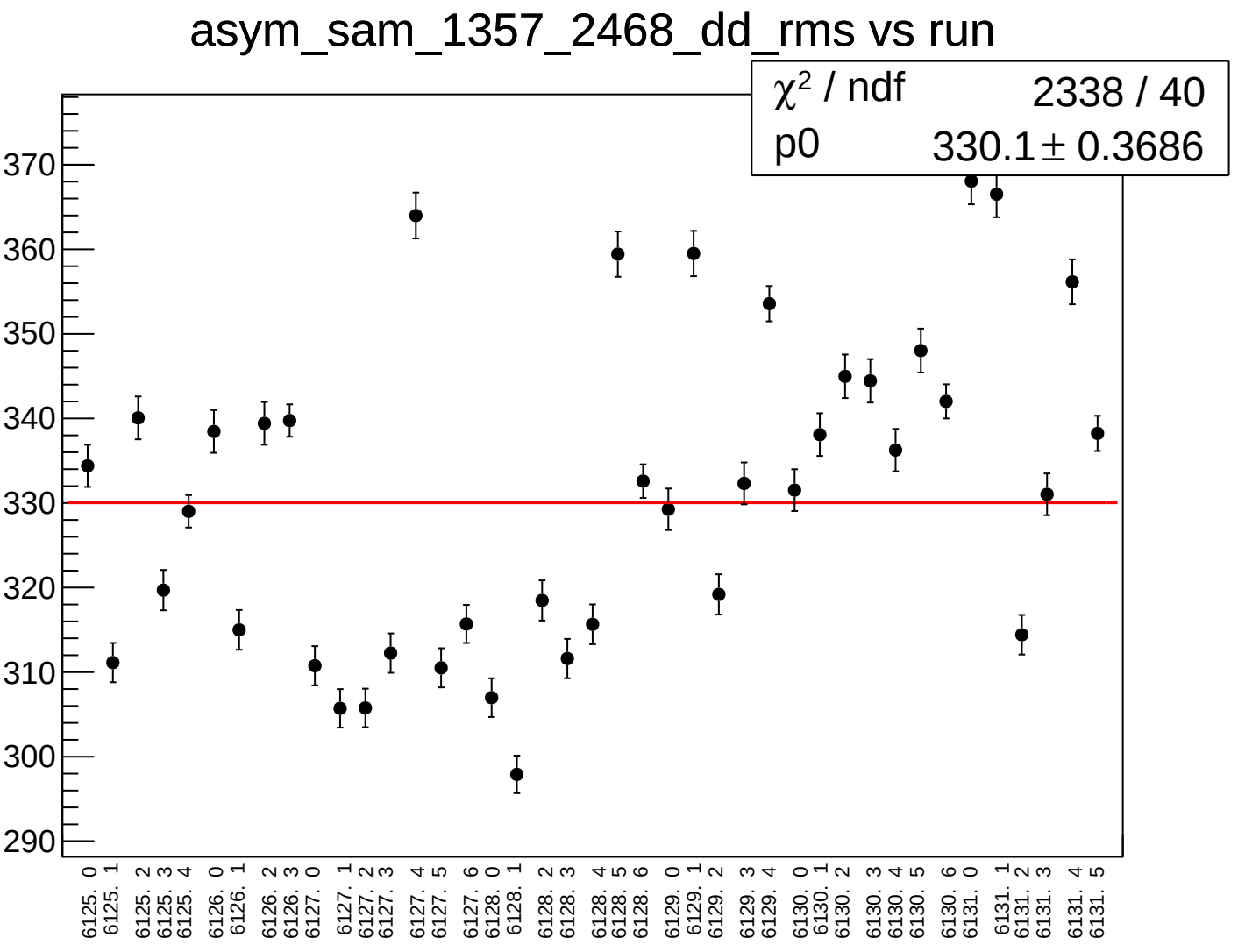
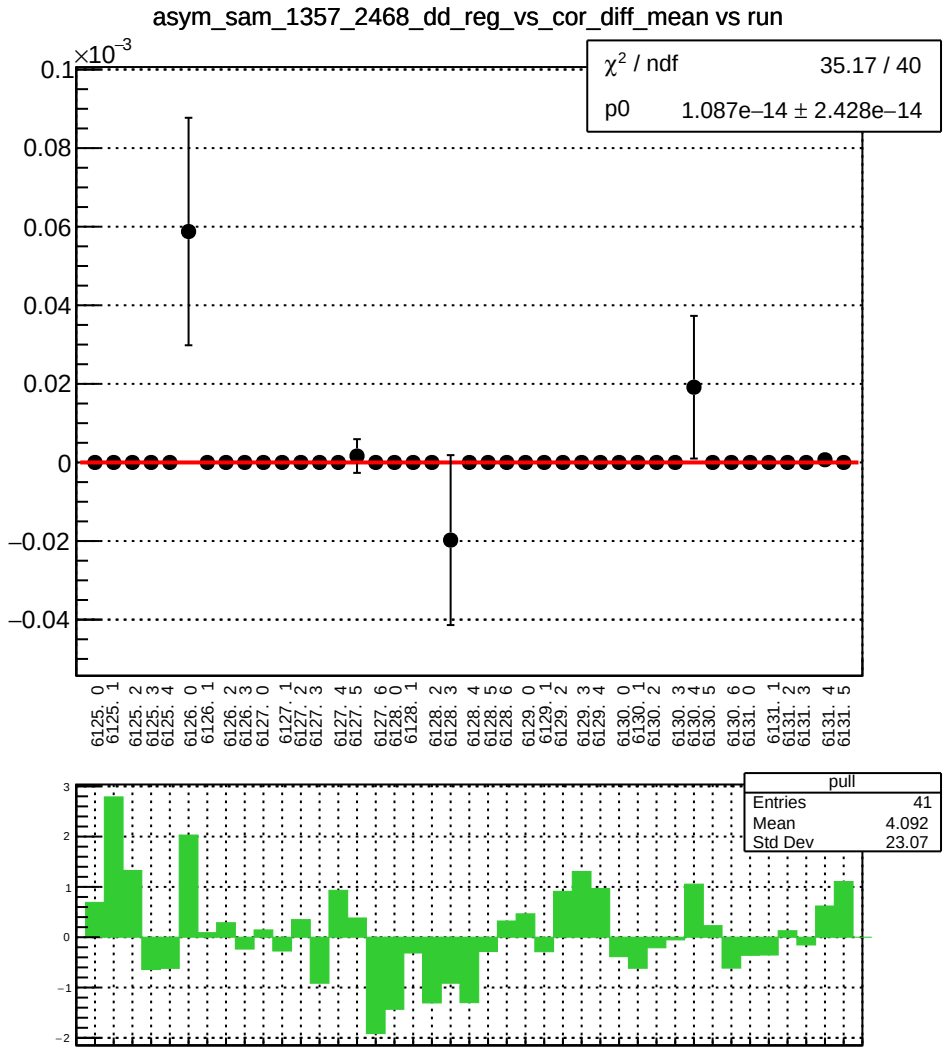
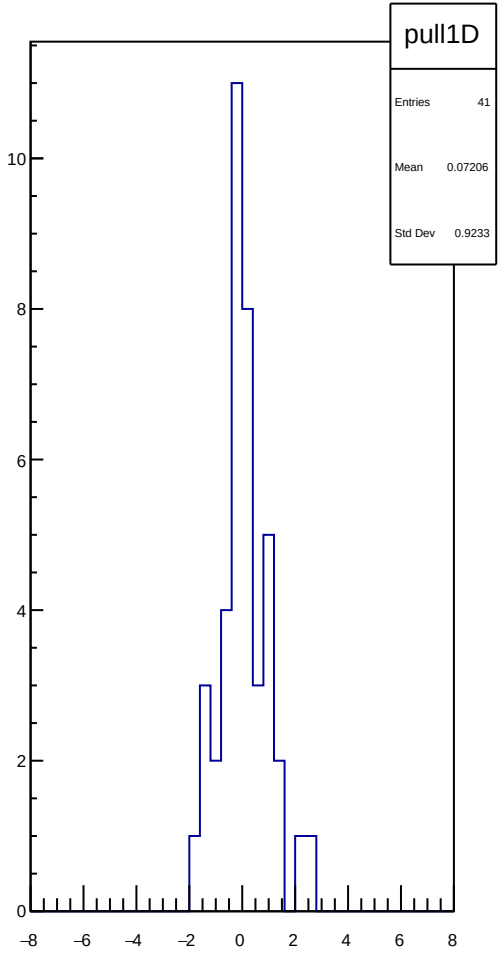
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

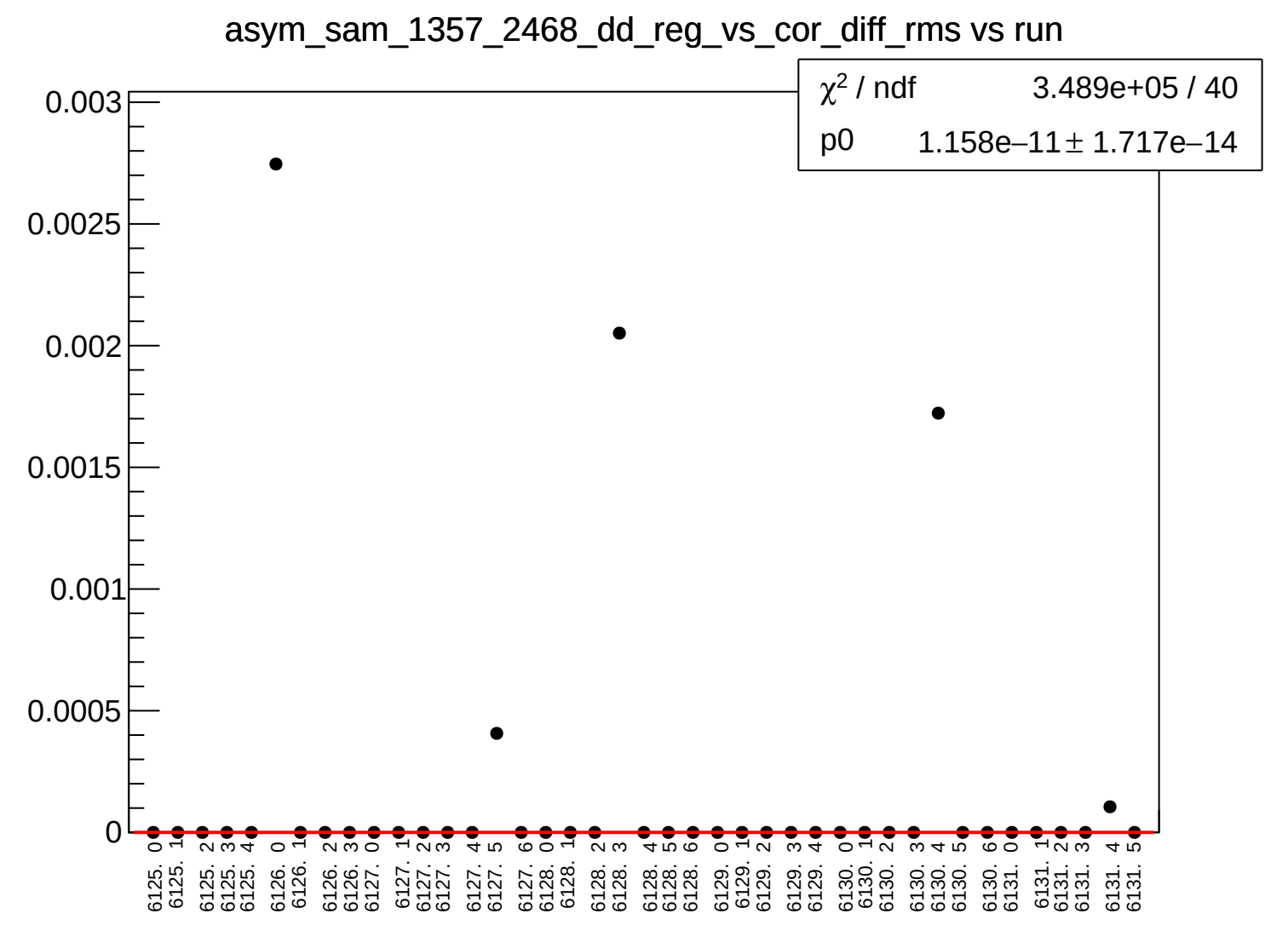

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 20.26 / 40
p0 −491.6 ± 521.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 3389
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

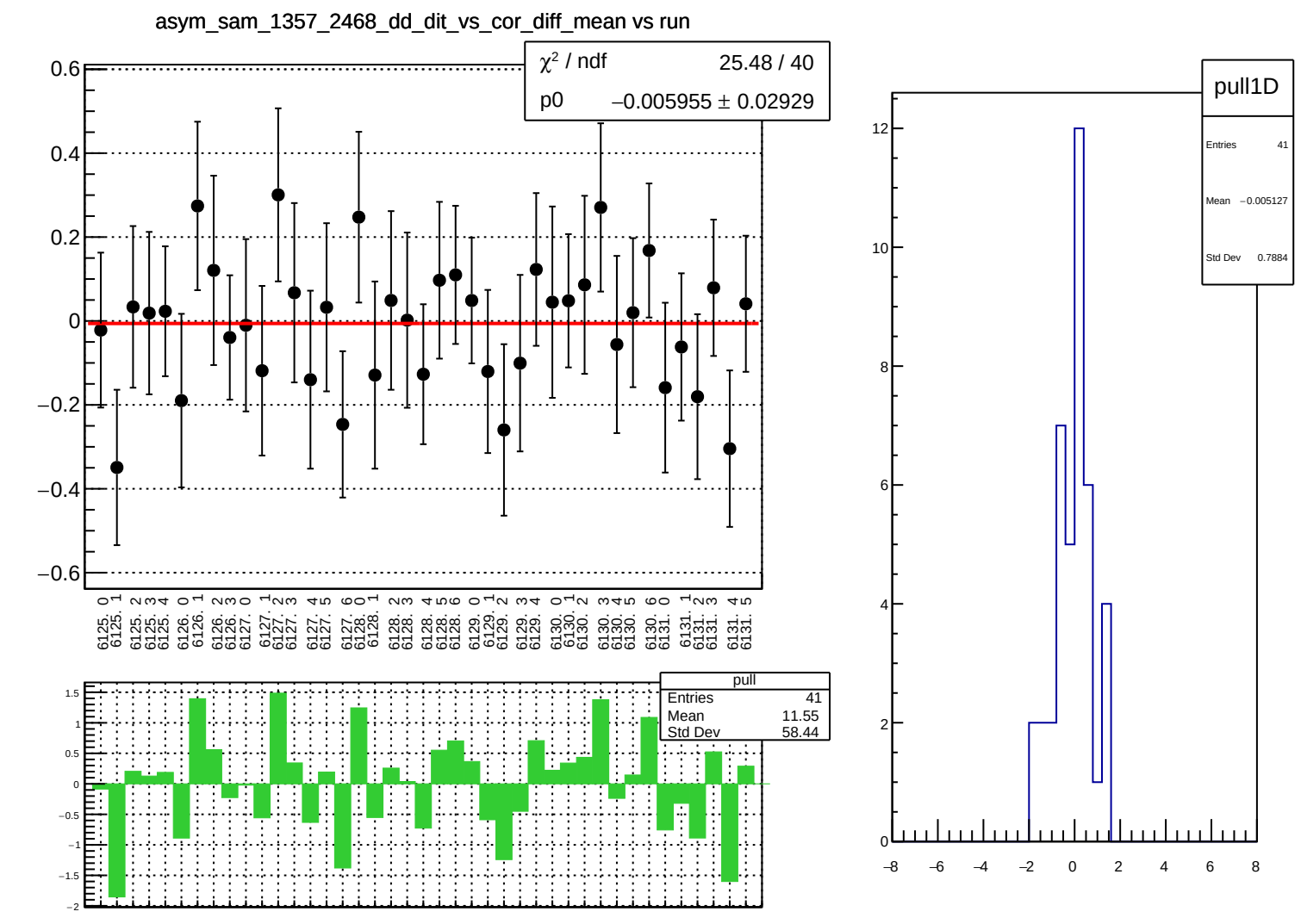

pull1D
Entries 41
Mean 0.0006655
Std Dev 0.703
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

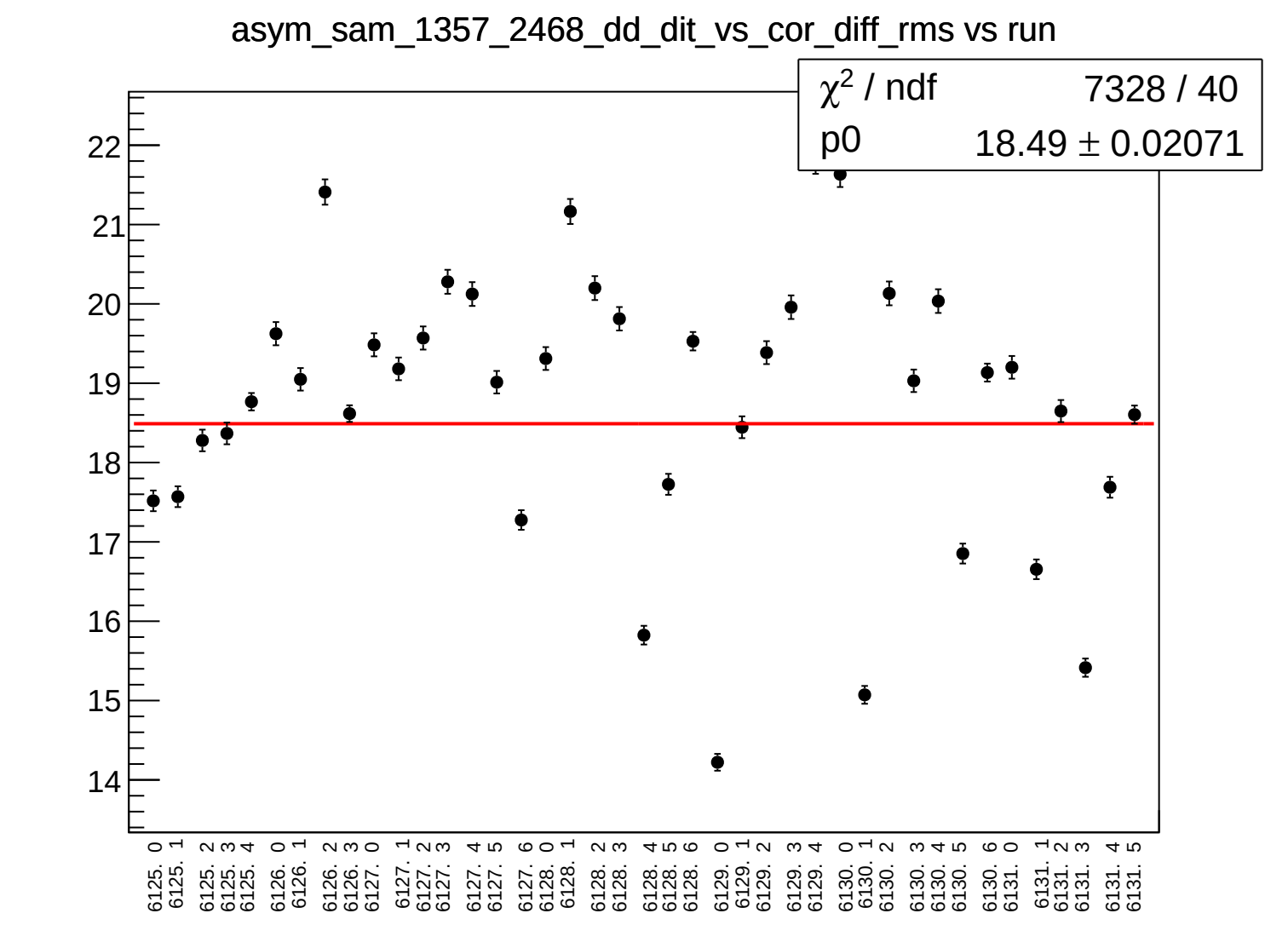

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2338 / 40
p0 330.1 ± 0.3686
370
360
350
340
330
320
310
300
290
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

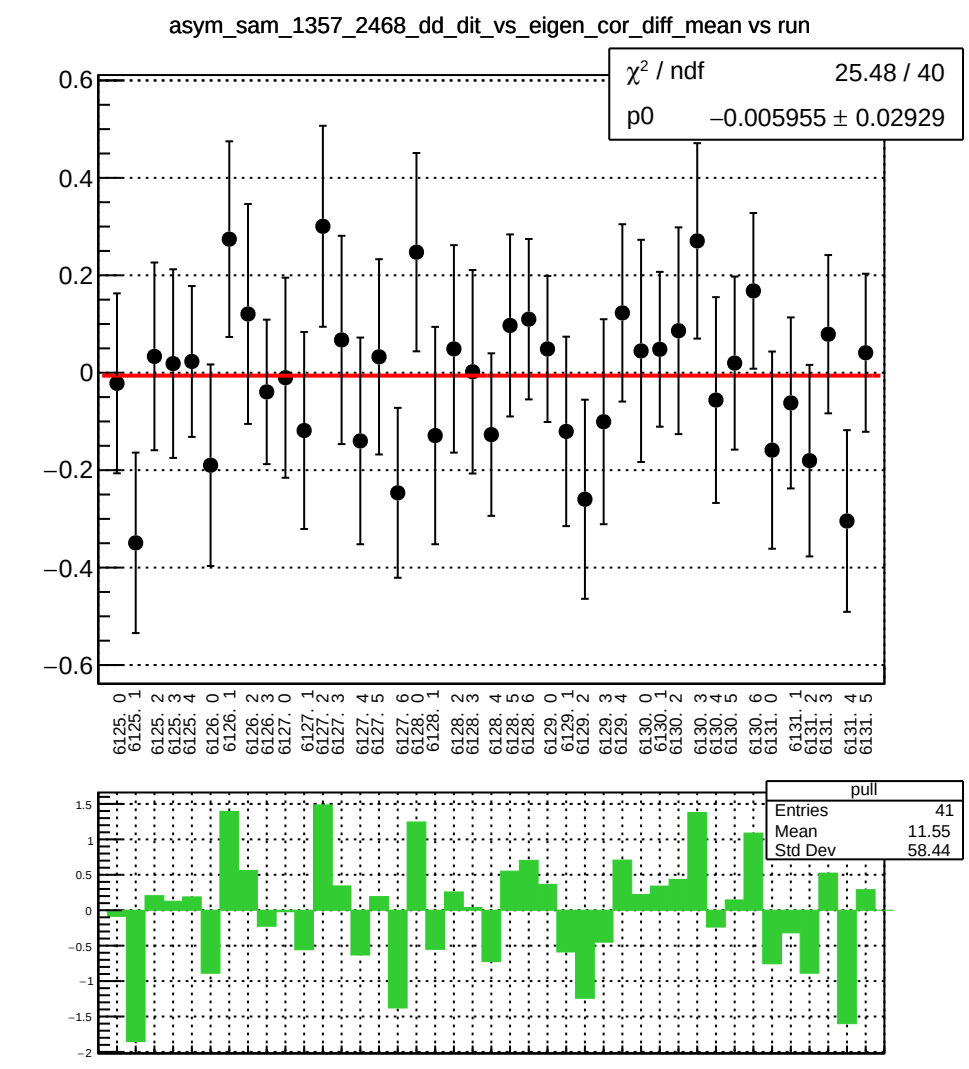

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 35.17 / 40
p0 1.087e−14 ± 2.428e−14
pull
Entries 41
Mean 4.092
Std Dev 23.07

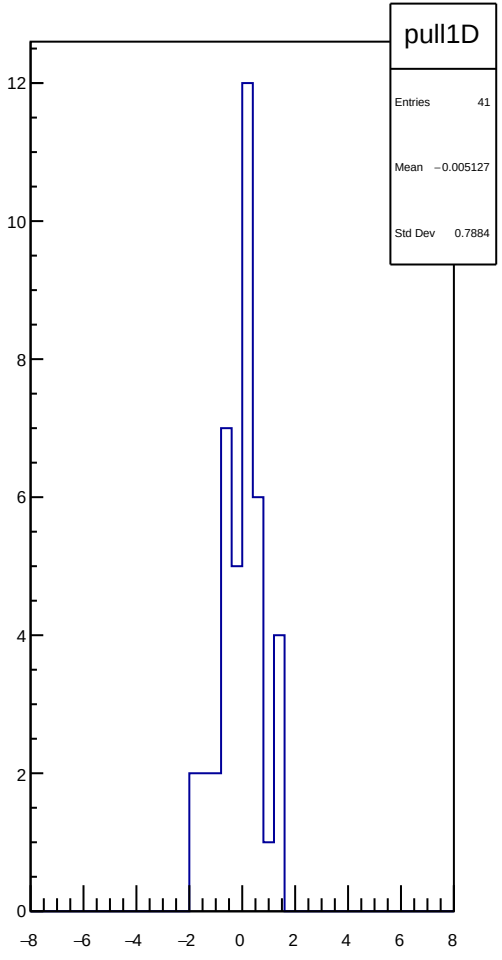

pull1D
Entries 41
Mean 0.07206
Std Dev 0.9233

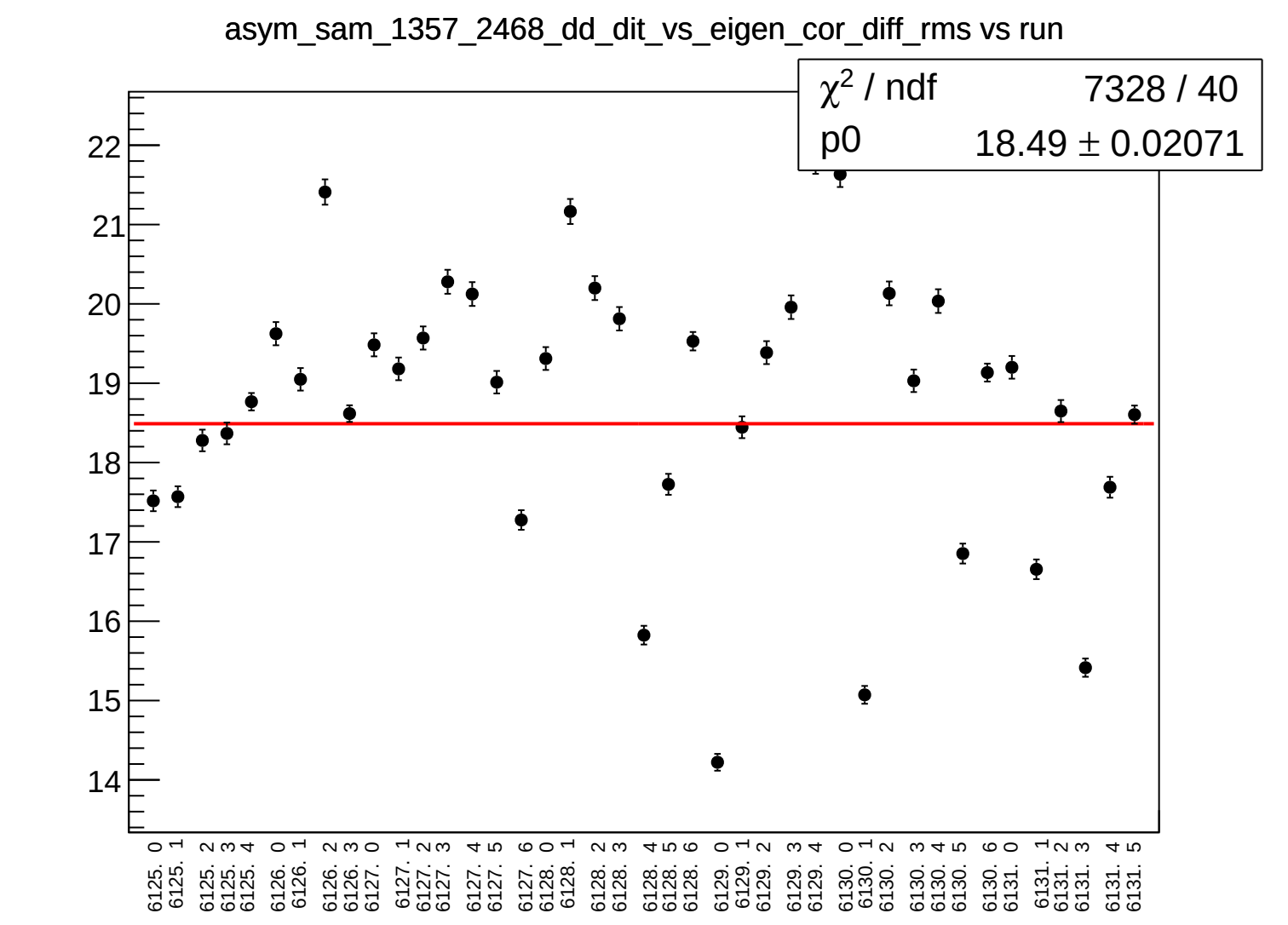

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.489e+05 / 40
p0 1.158e−11 ± 1.717e−14
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

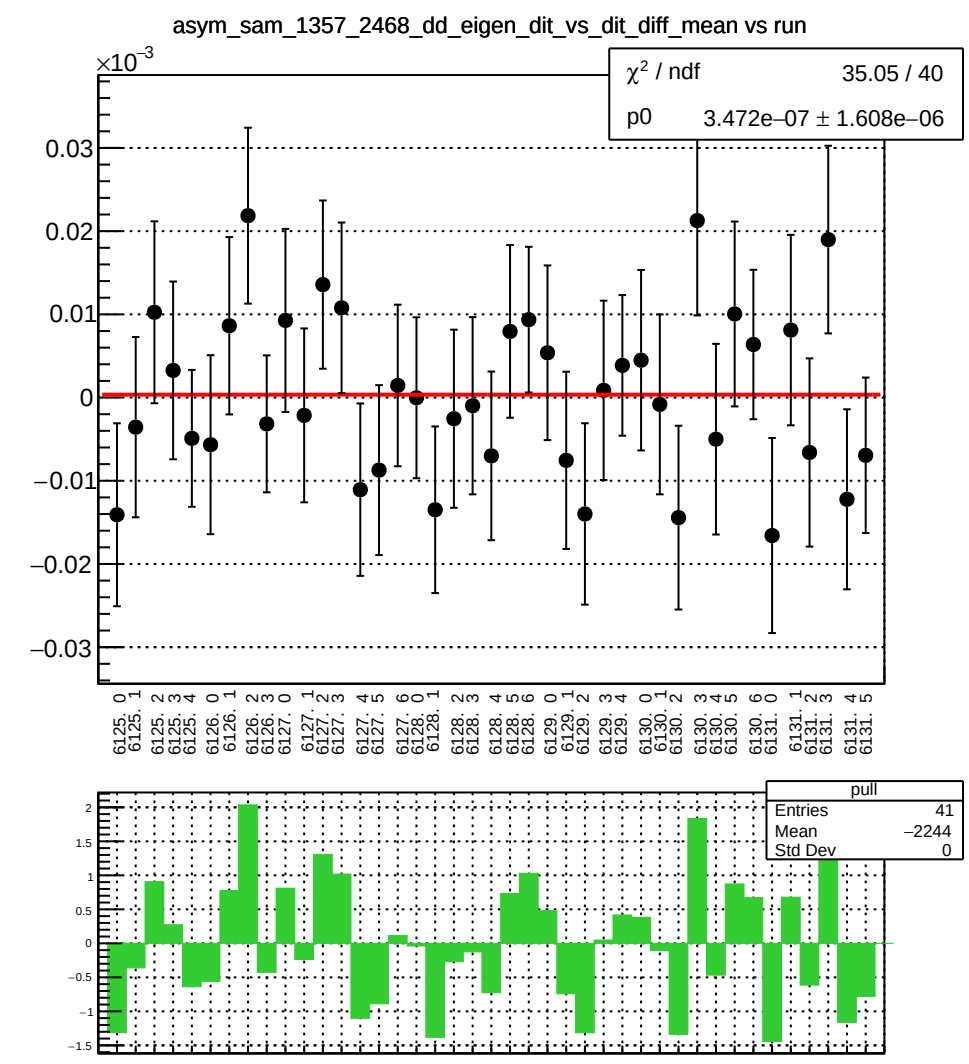

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 25.48 / 40
p0 −0.005955 ± 0.02929
pull
Entries 41
Mean 11.55
Std Dev 58.44
pull1D
Entries 41
Mean −0.005127
Std Dev 0.7884

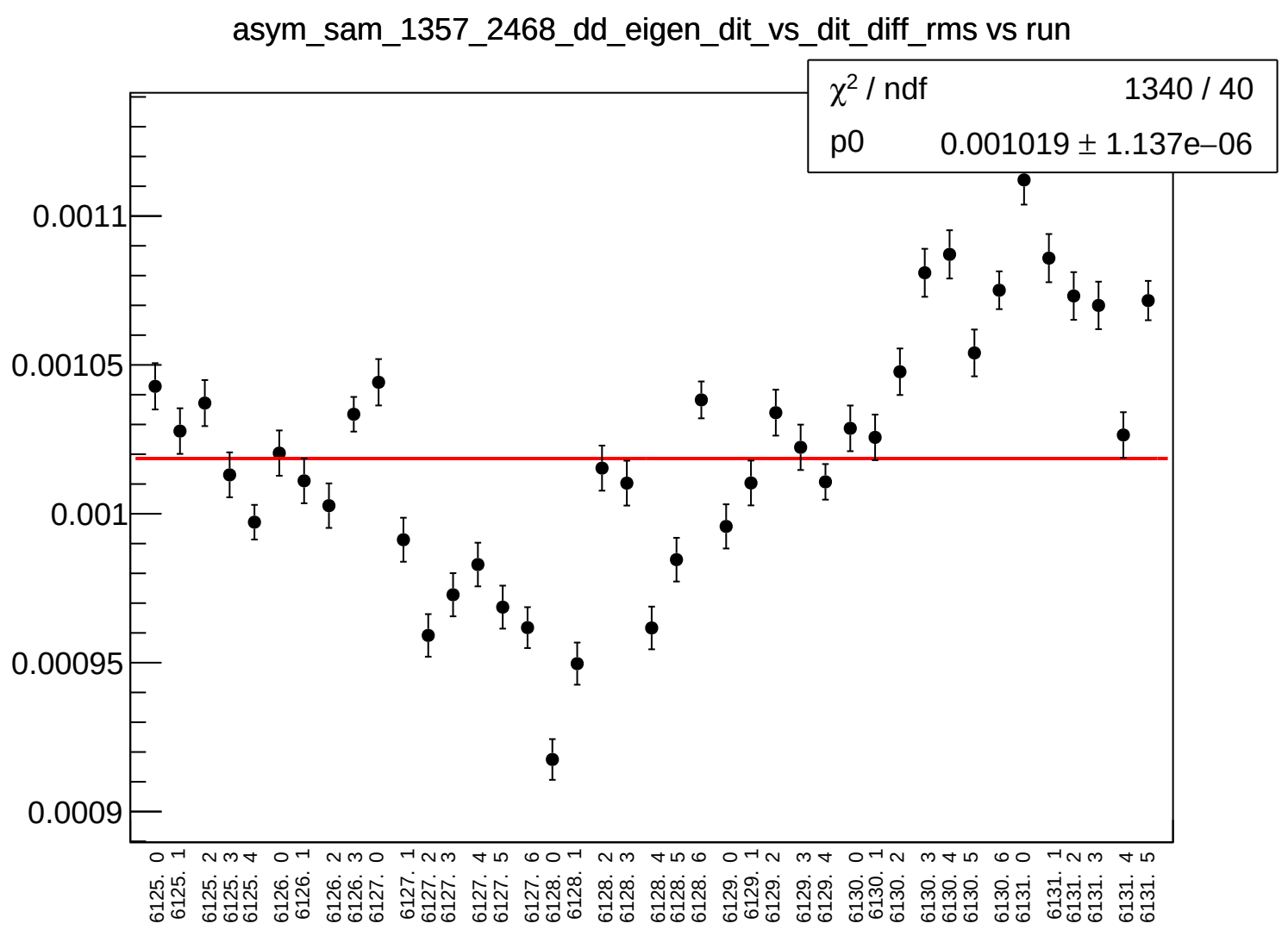

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7328 / 40
p0 18.49 ± 0.02071
22
21
20
19
18
17
16
15
14
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

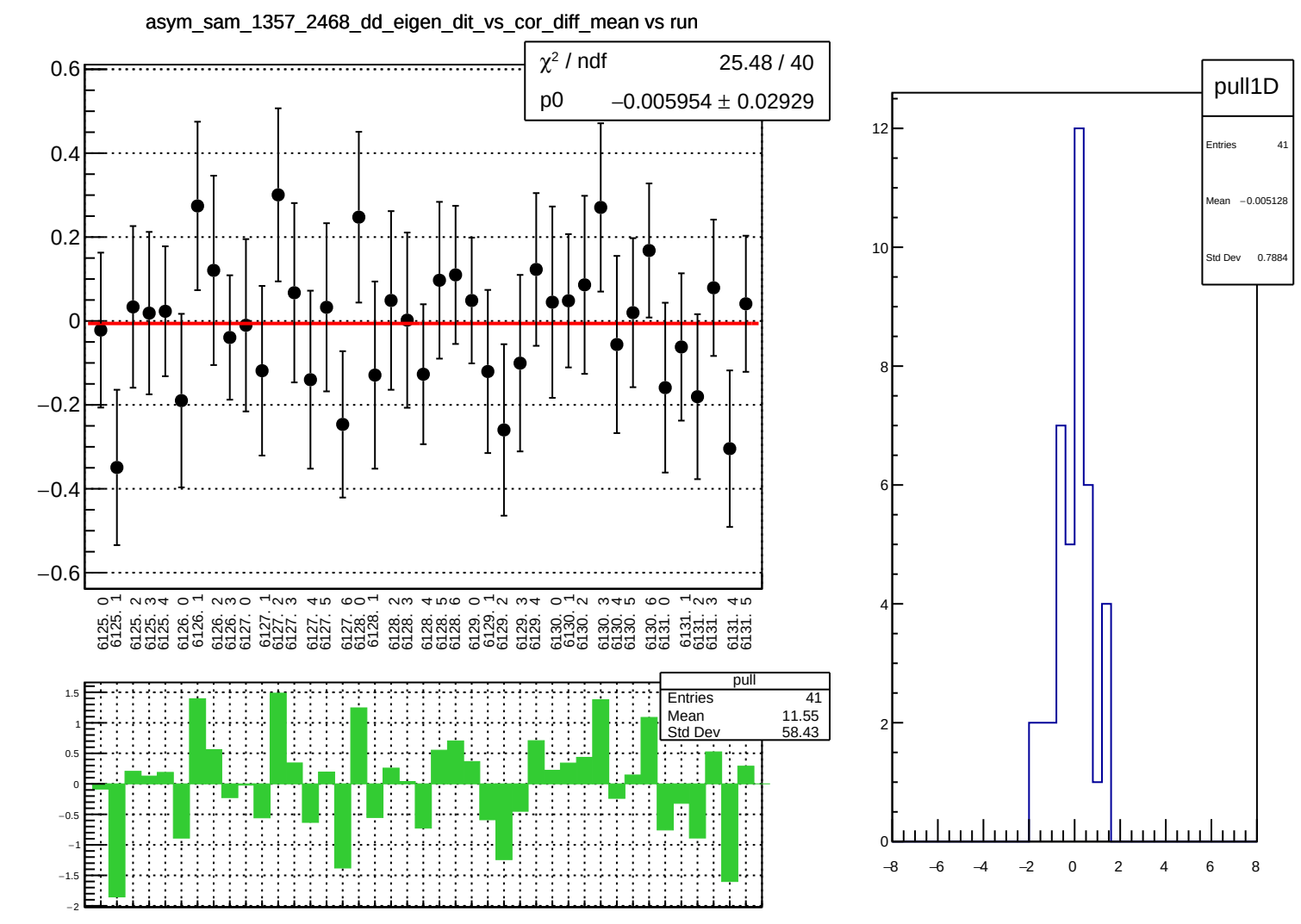

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.48 / 40
p0 −0.005955 ± 0.02929
pull
Entries 41
Mean 11.55
Std Dev 58.44

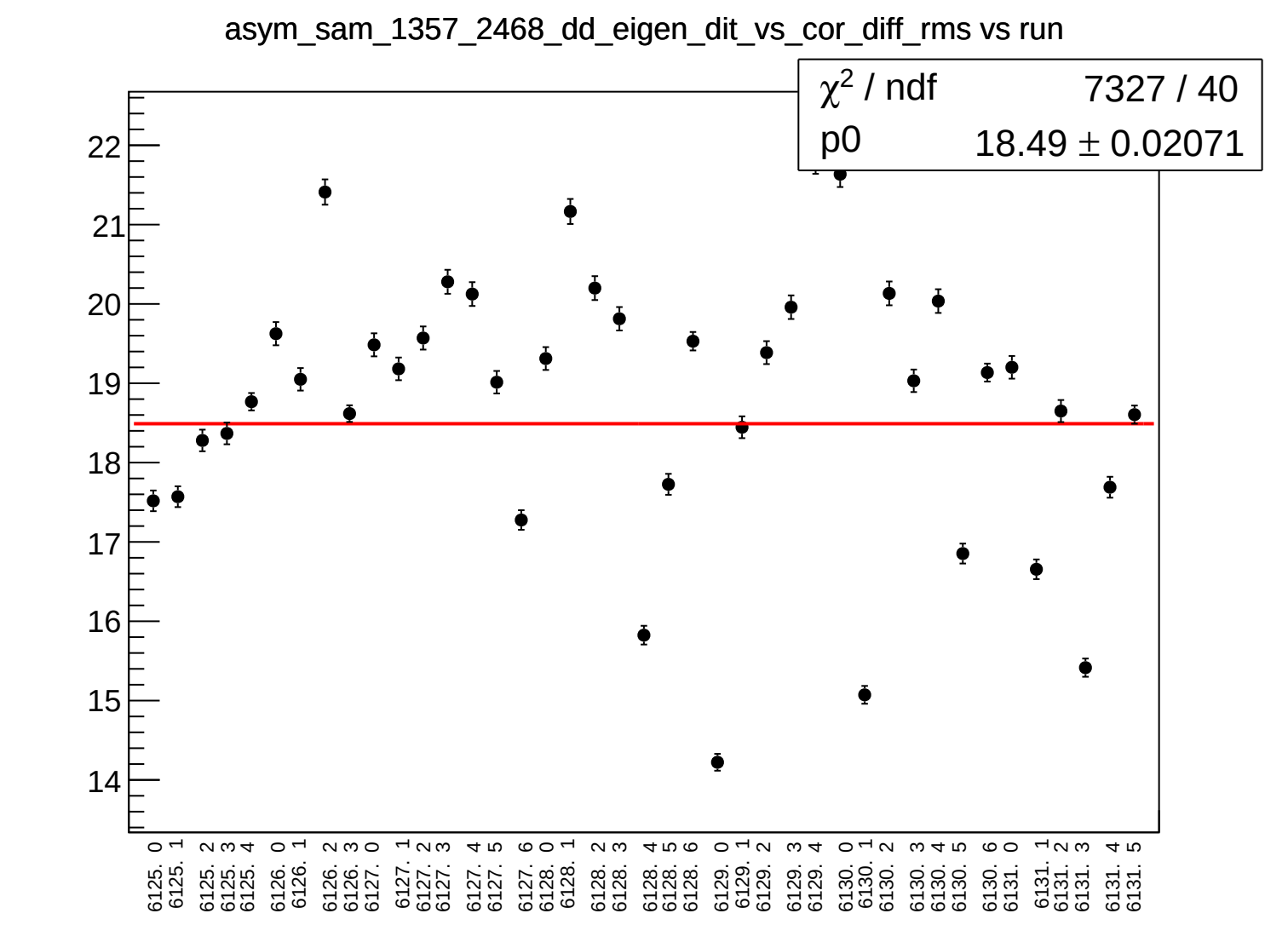

pull1D
Entries 41
Mean −0.005127
Std Dev 0.7884

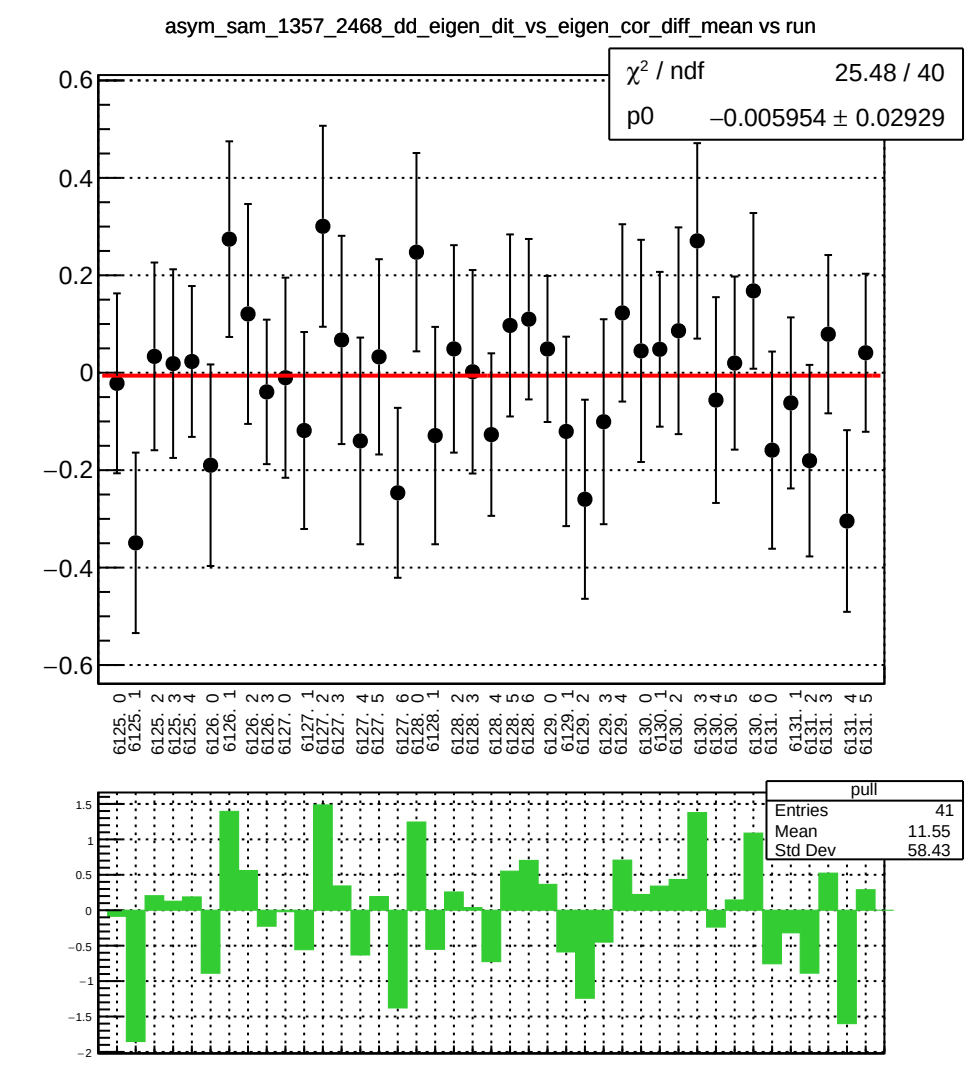

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7328 / 40
p0 18.49 ± 0.02071
22
21
20
19
18
17
16
15
14
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

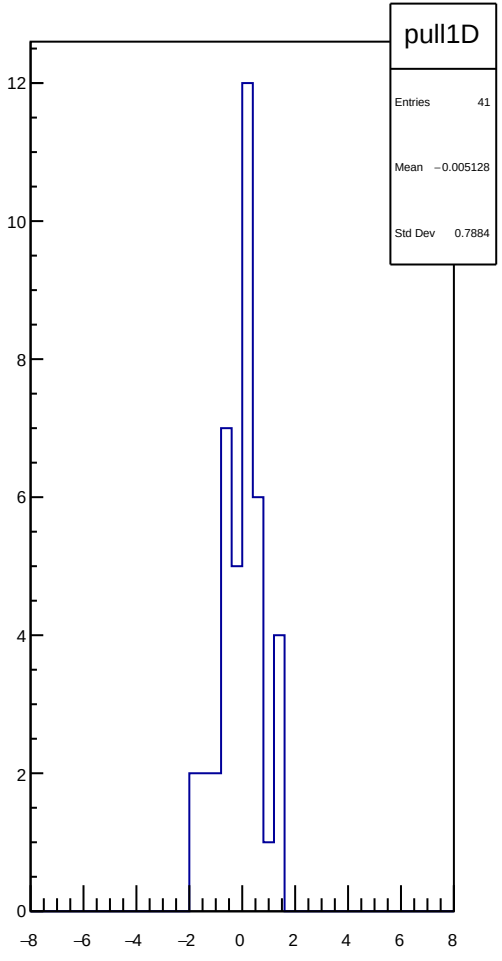

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 35.05 / 40
p0 3.472e−07 ± 1.608e−06
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −2244
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.0001908
Std Dev 0.9246
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

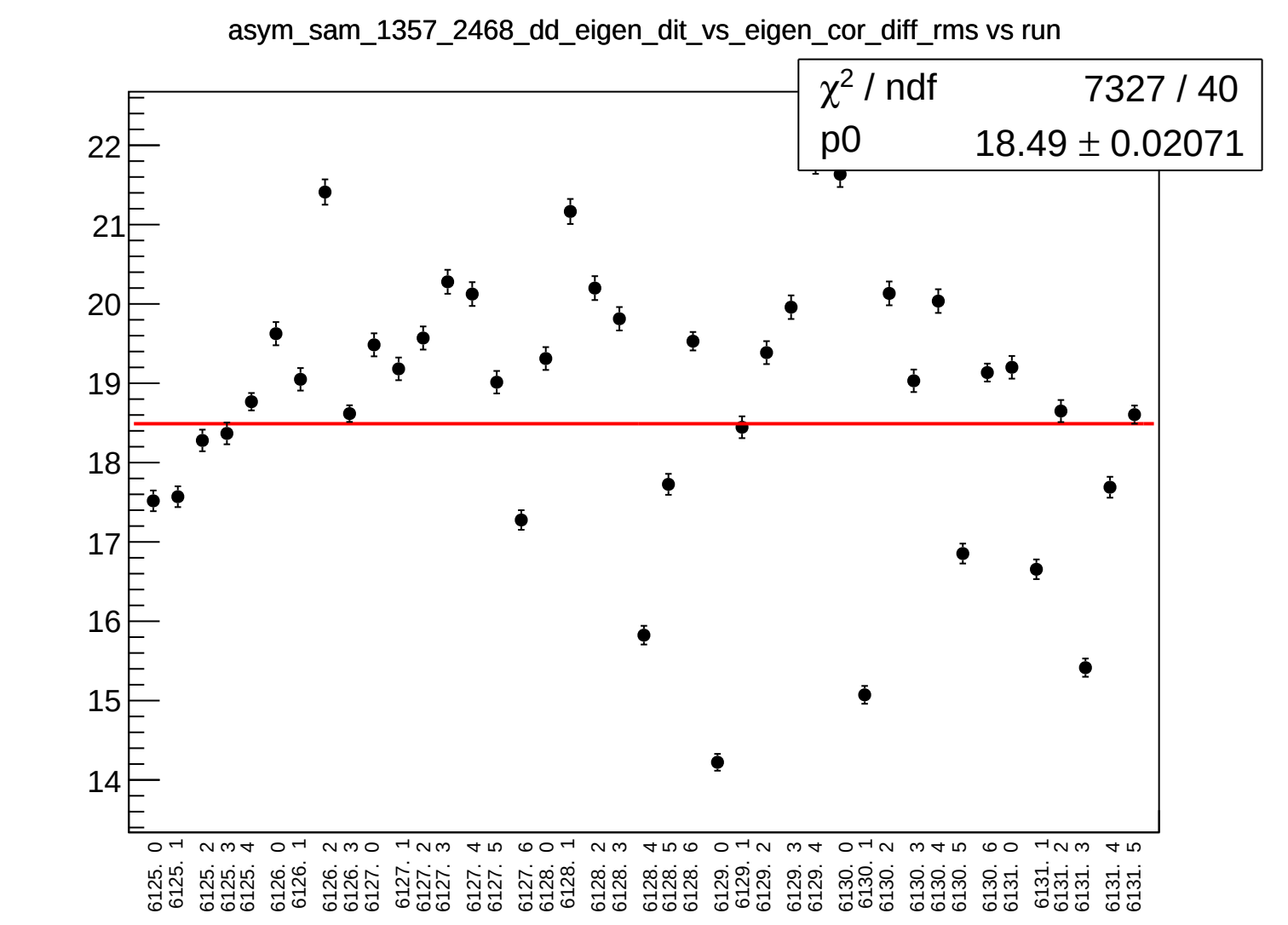

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1340 / 40
p0 0.001019 ± 1.137e−06
0.0011
0.00105
0.001
0.00095
0.0009
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

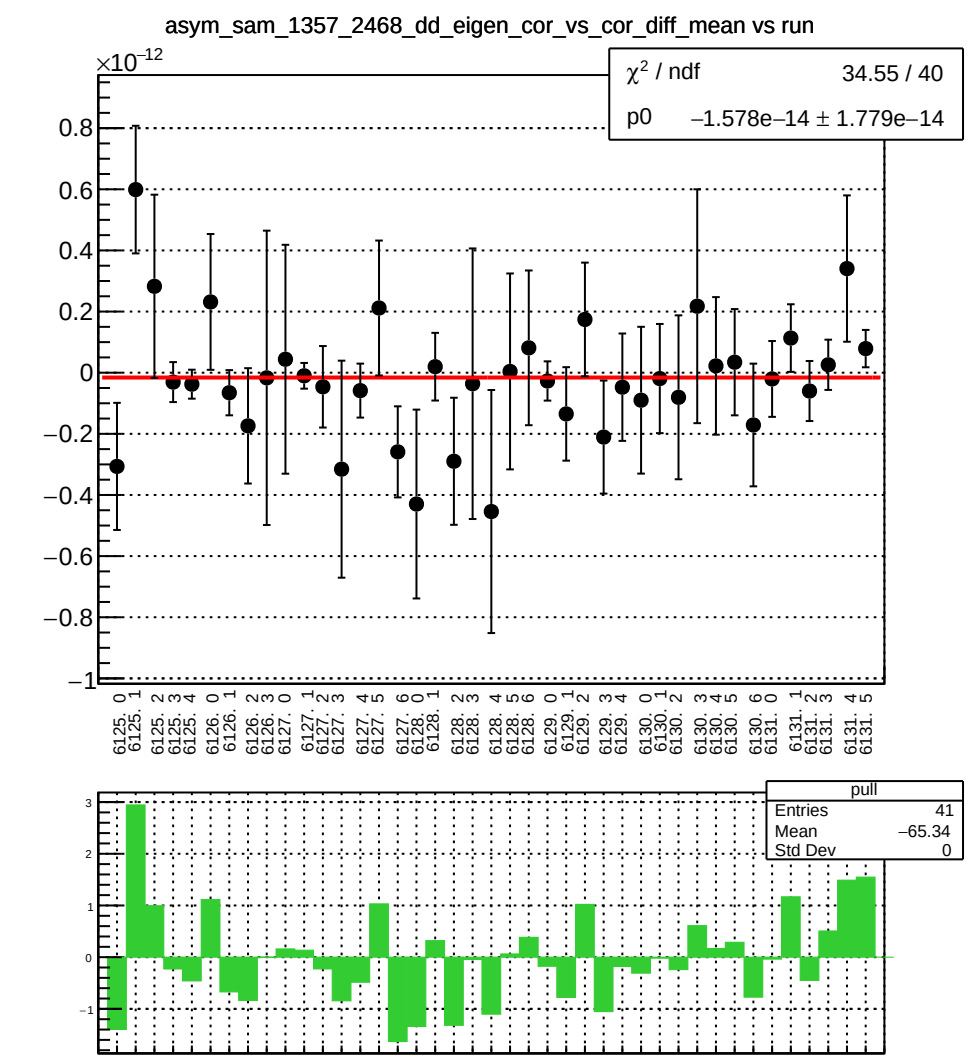

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 25.48 / 40
p0 −0.005954 ± 0.02929
pull
Entries 41
Mean 11.55
Std Dev 58.43
pull1D
Entries 41
Mean −0.005128
Std Dev 0.7884

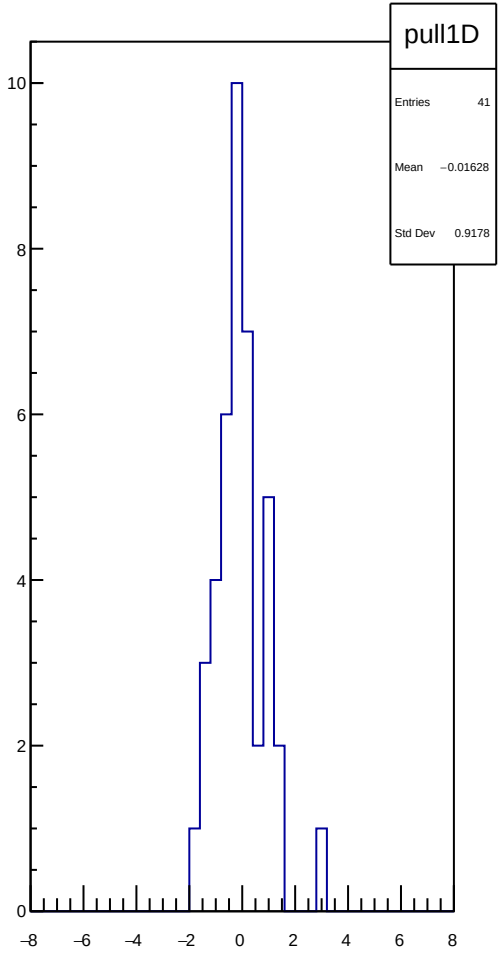

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7327 / 40
p0 18.49 ± 0.02071
22
21
20
19
18
17
16
15
14
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

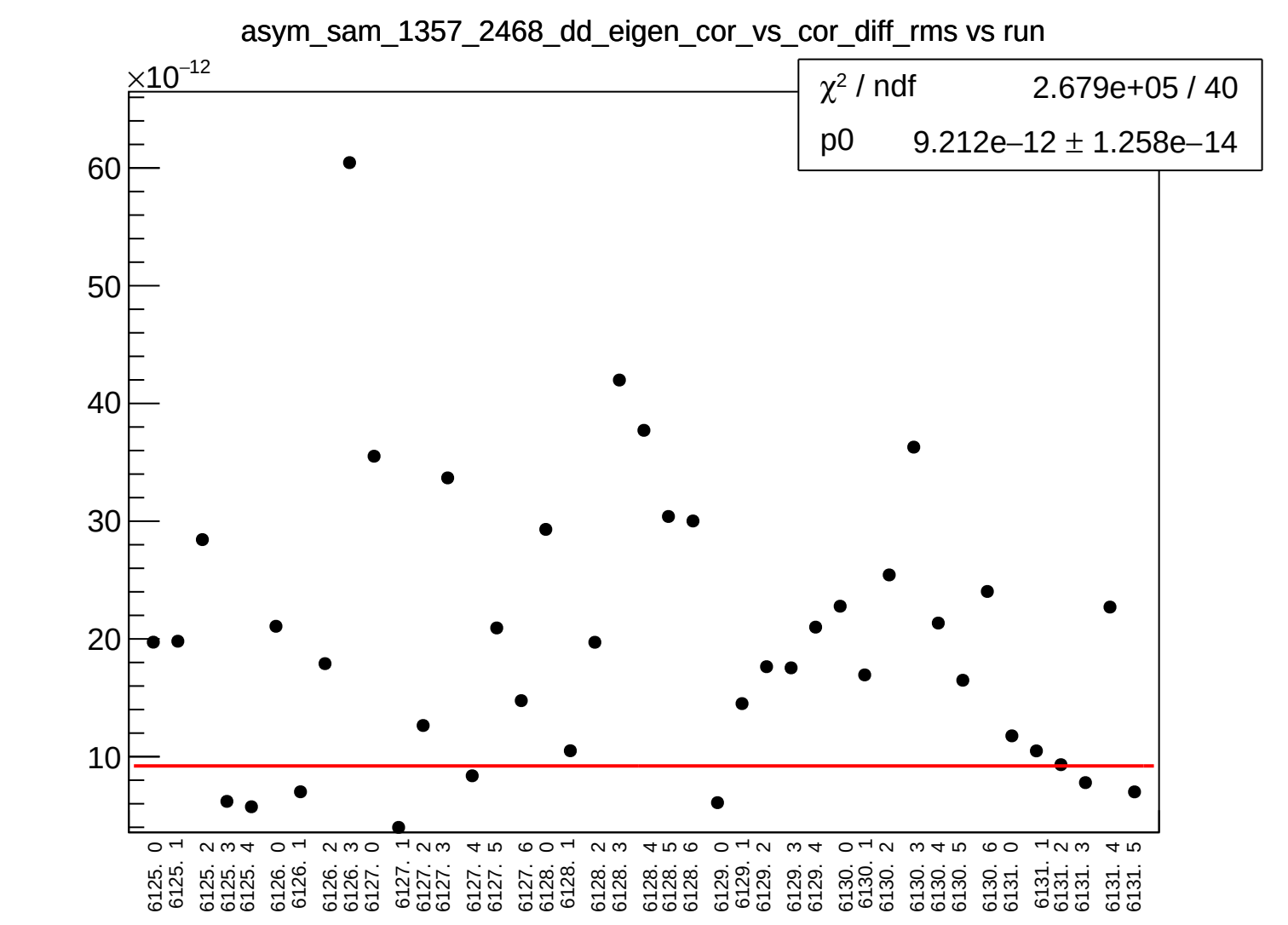

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.48 / 40
p0 −0.005954 ± 0.02929
pull
Entries 41
Mean 11.55
Std Dev 58.43

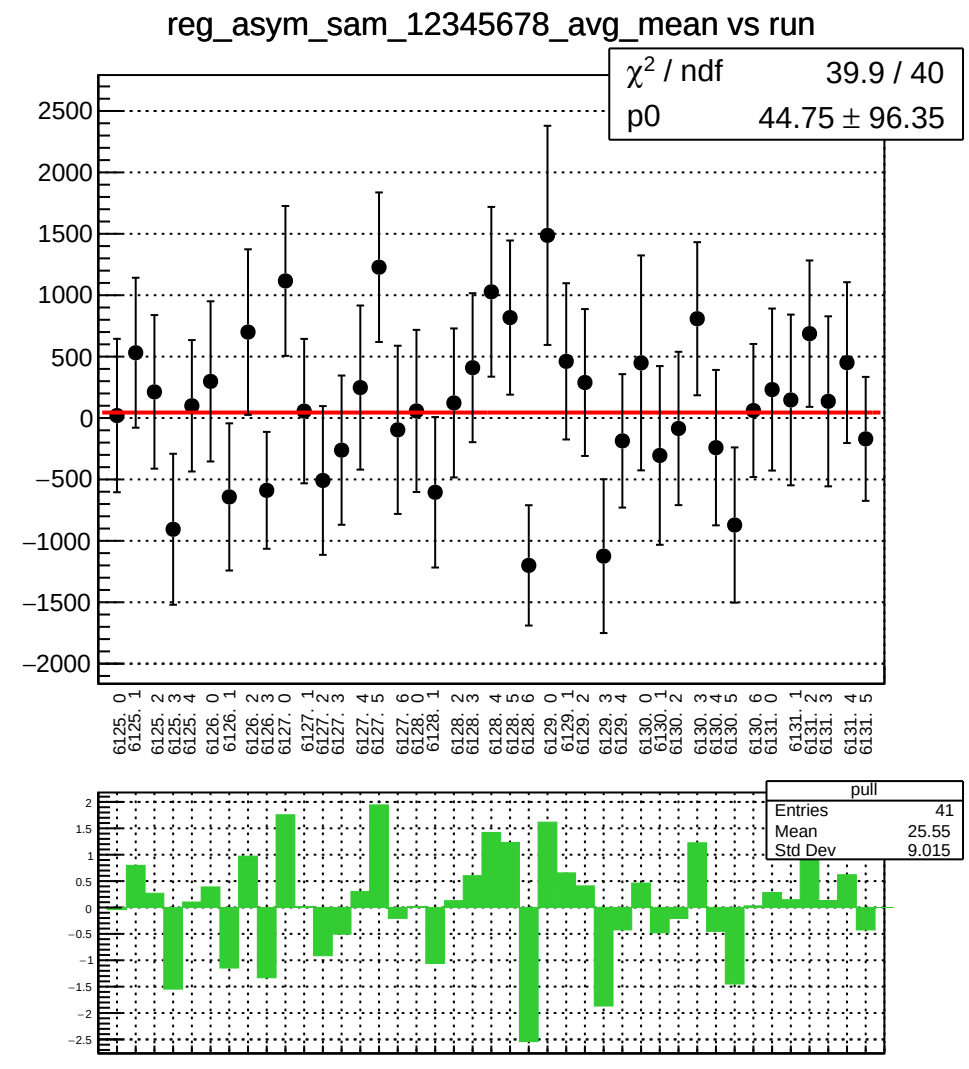

pull1D
Entries 41
Mean −0.005128
Std Dev 0.7884

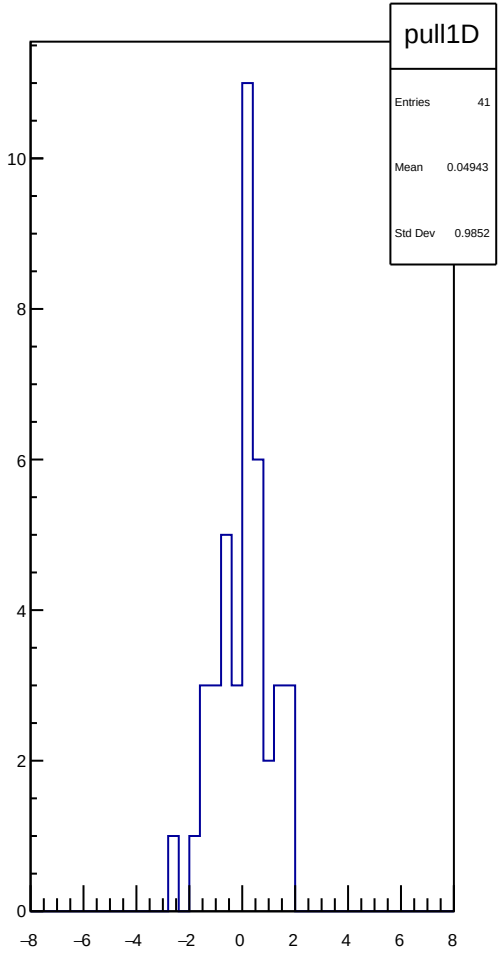

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7327 / 40
p0 18.49 ± 0.02071
22
21
20
19
18
17
16
15
14
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

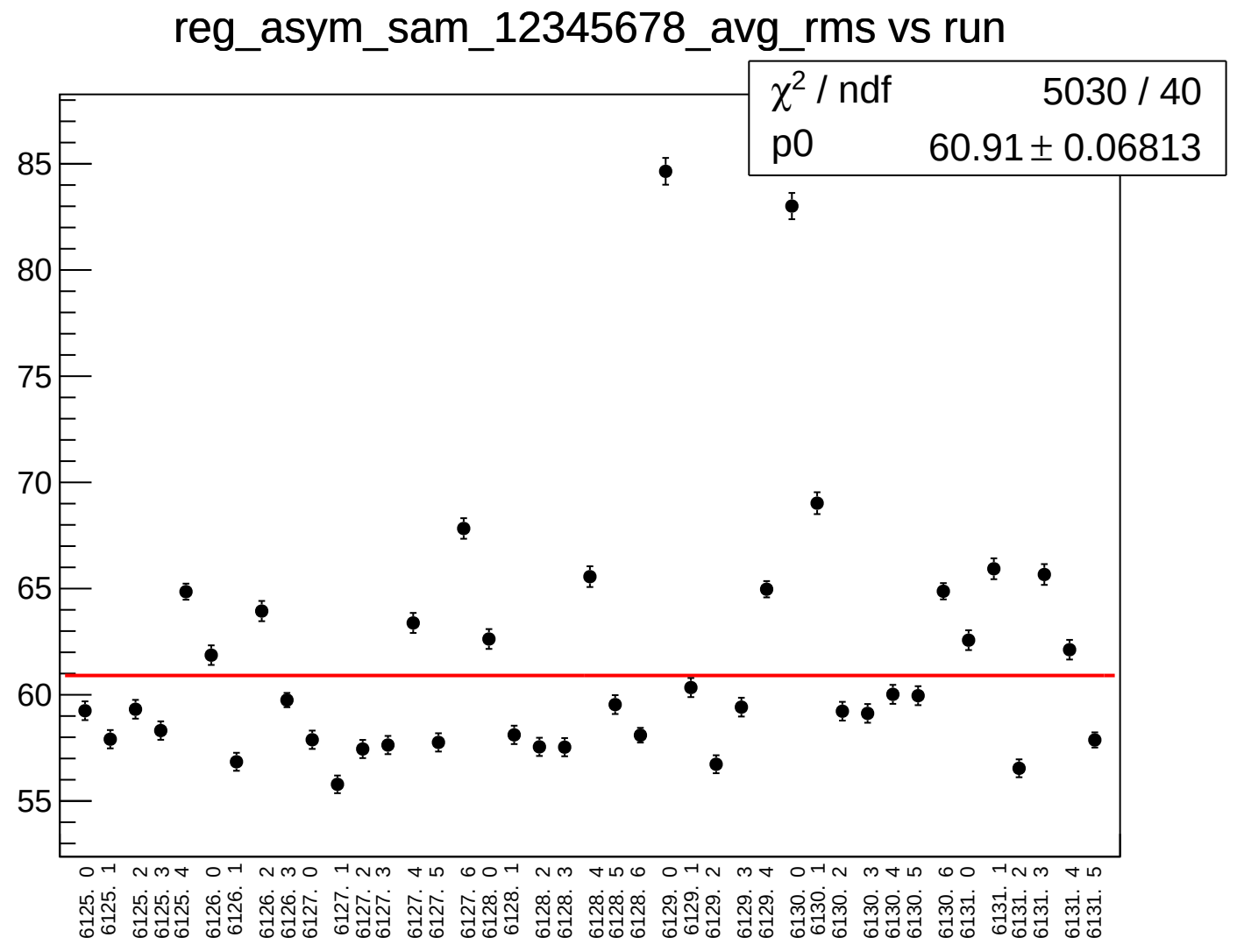

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.55 / 40
p0 −1.578e−14 ± 1.779e−14
pull
Entries 41
Mean −65.34
Std Dev 0

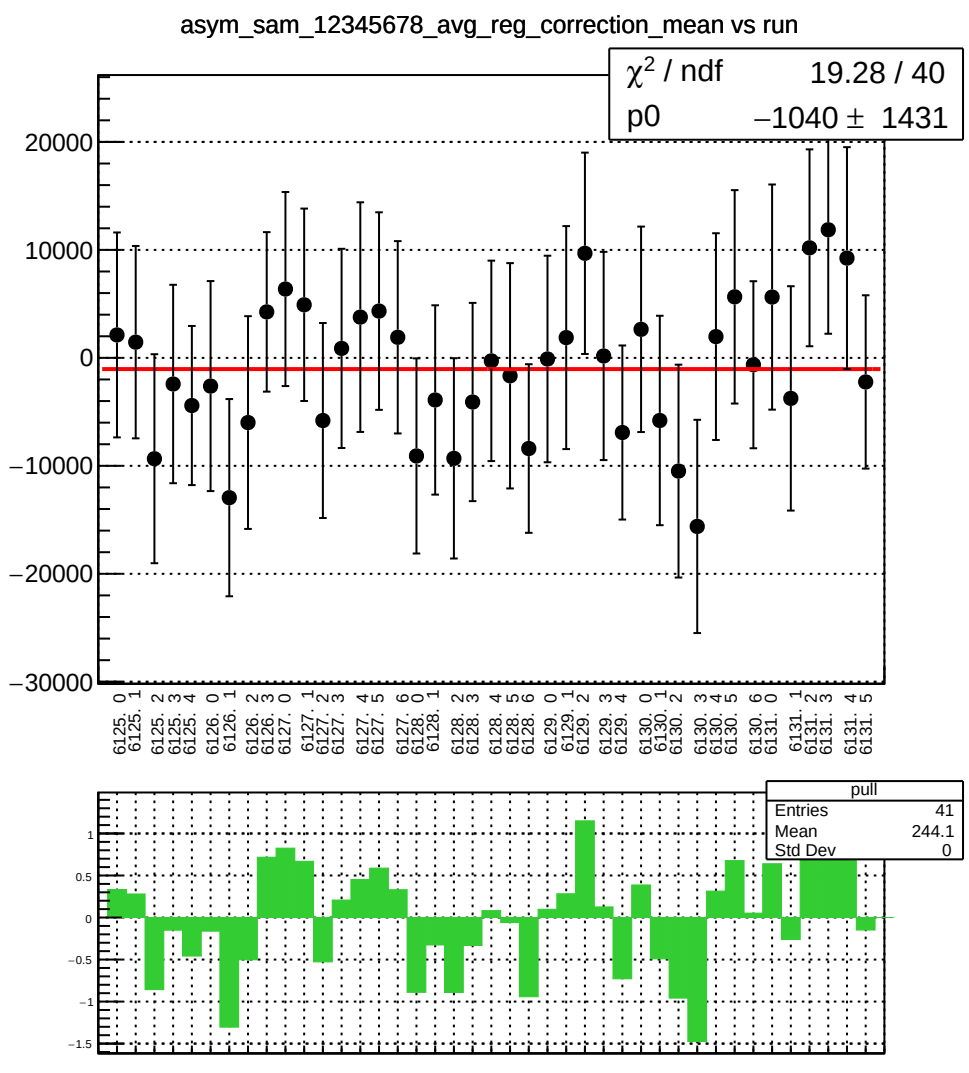

pull1D
Entries 41
Mean −0.01628
Std Dev 0.9178

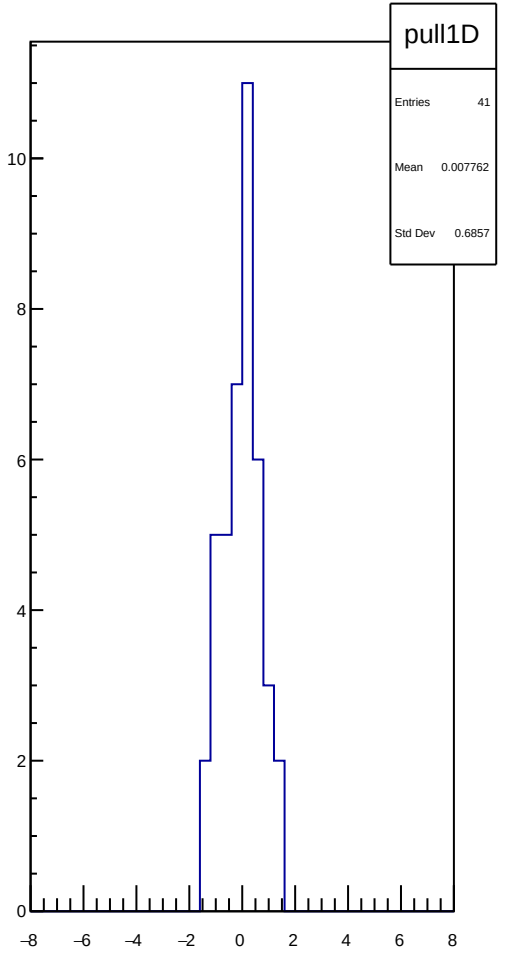

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.679e+05 / 40
p0 9.212e−12 ± 1.258e−14
60
50
40
30
20
10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

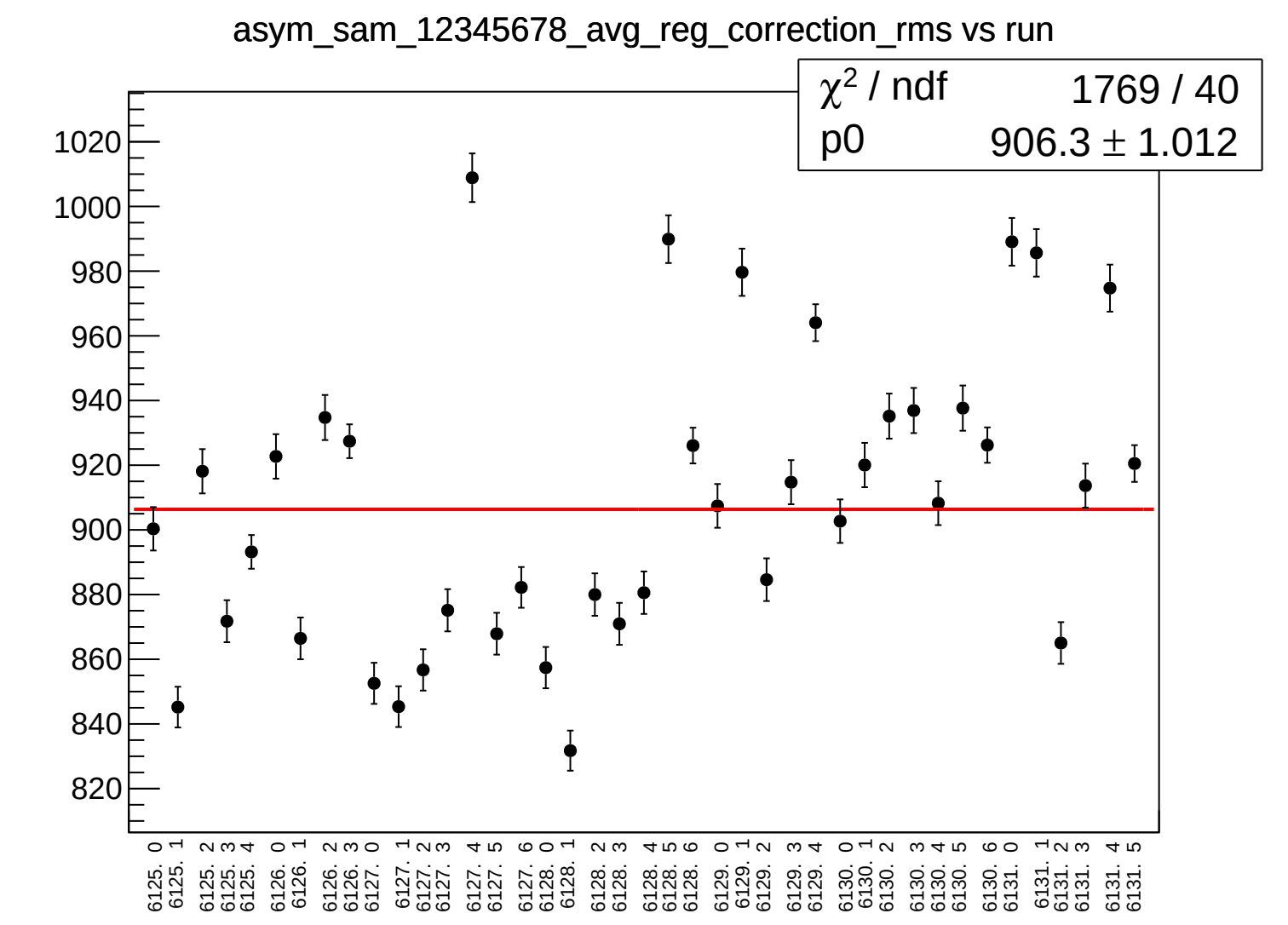

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 39.9 / 40
p0 44.75 ± 96.35
pull
Entries 41
Mean 25.55
Std Dev 9.015

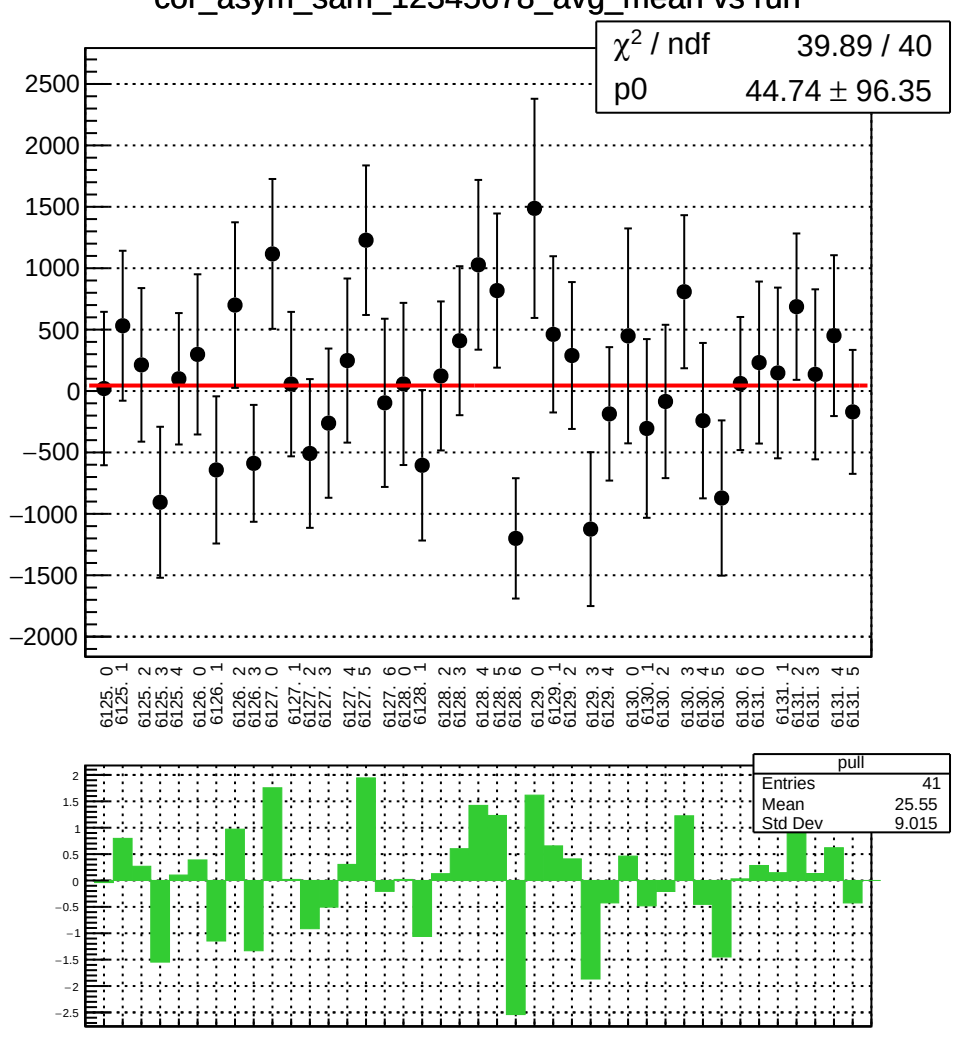

pull1D
Entries 41
Mean 0.04943
Std Dev 0.9852

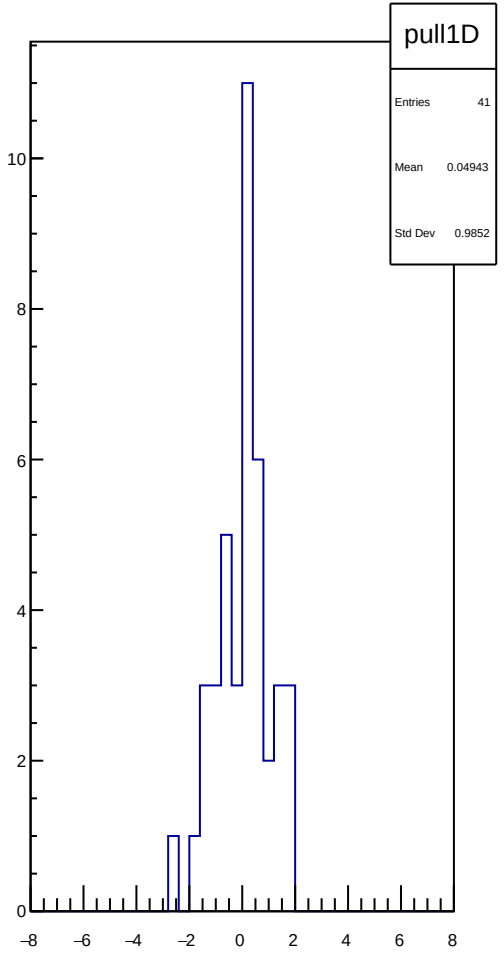

reg_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 5030 / 40
p0 60.91 ± 0.06813
85
80
75
70
65
60
55
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

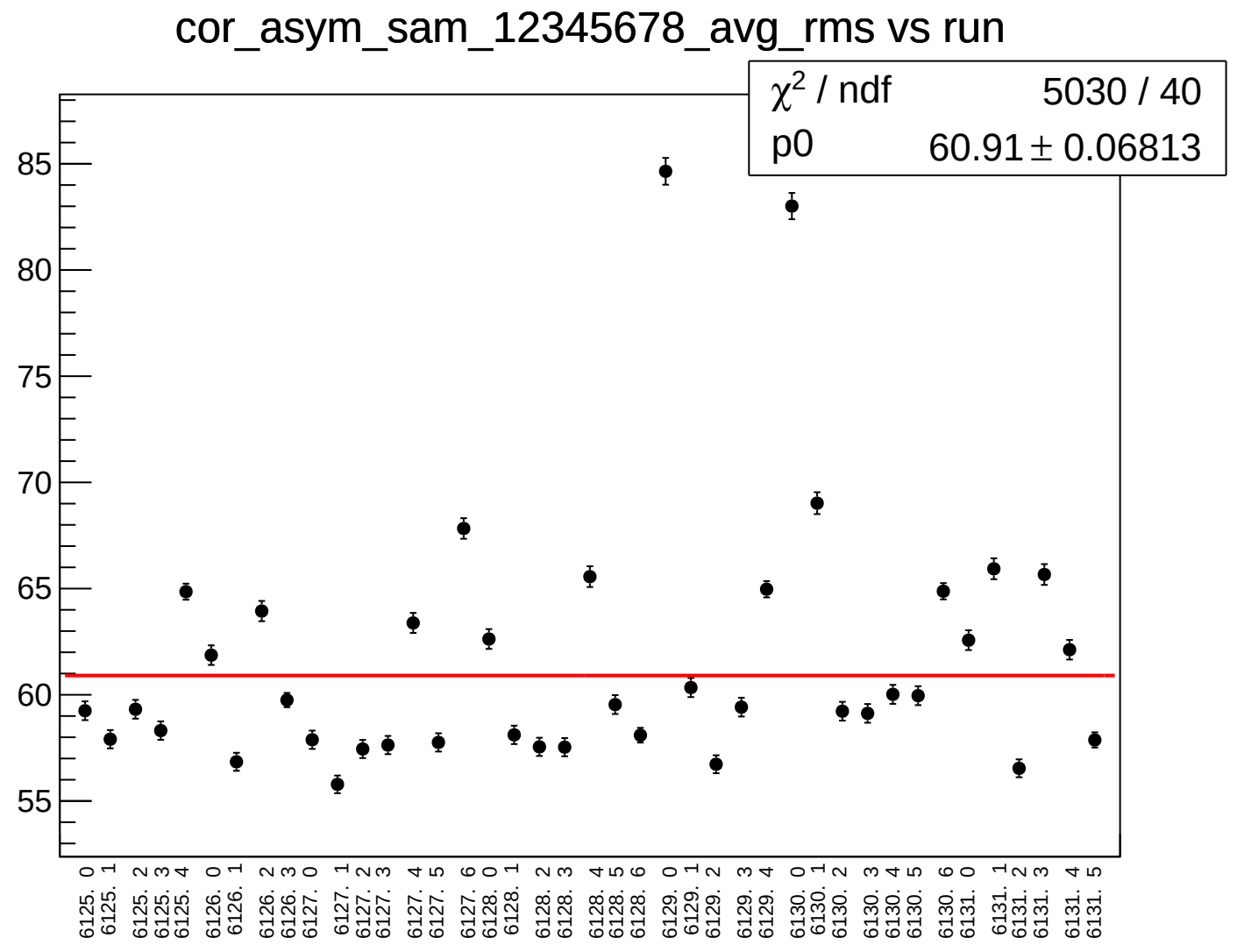

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 19.28 / 40
p0 −1040 ± 1431
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 244.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

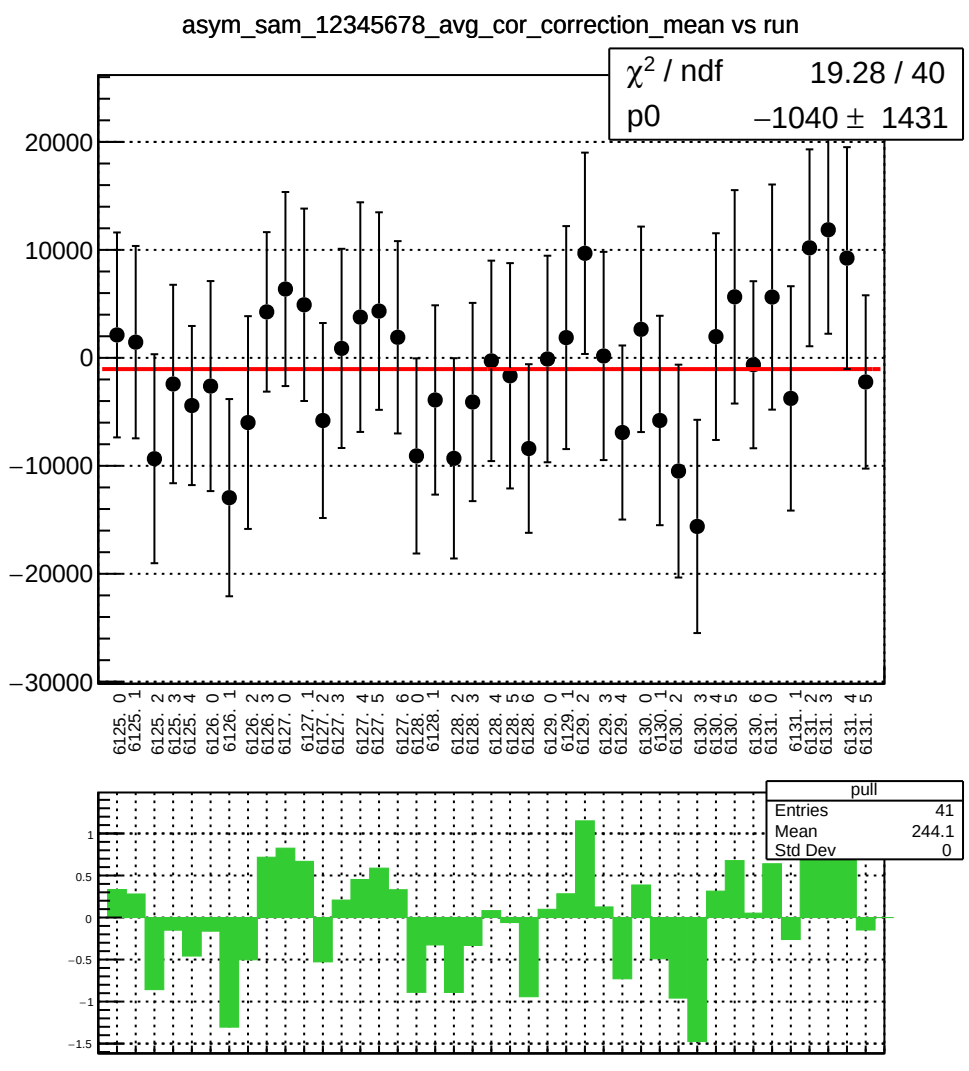

pull1D
Entries 41
Mean 0.007762
Std Dev 0.6857
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

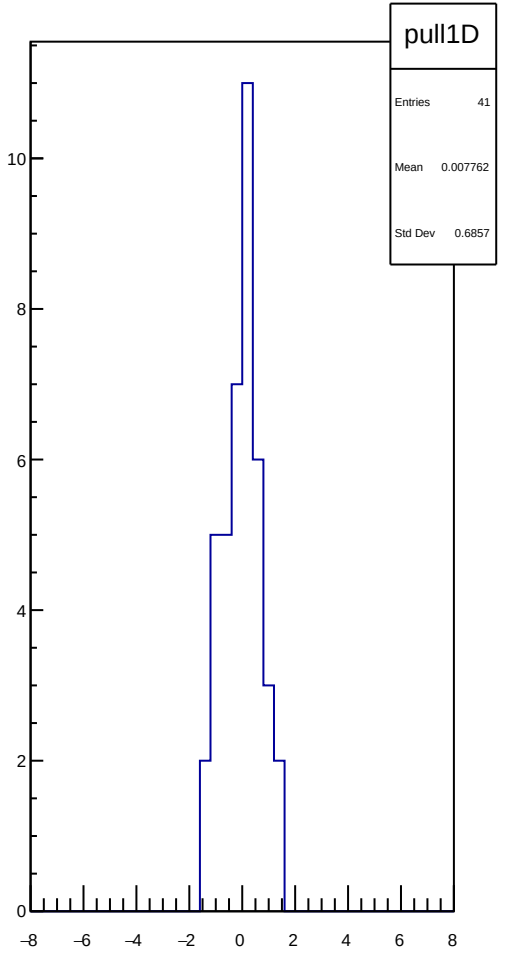

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 1769 / 40
p0 906.3 ± 1.012
1020
1000
980
960
940
920
900
880
860
840
820
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

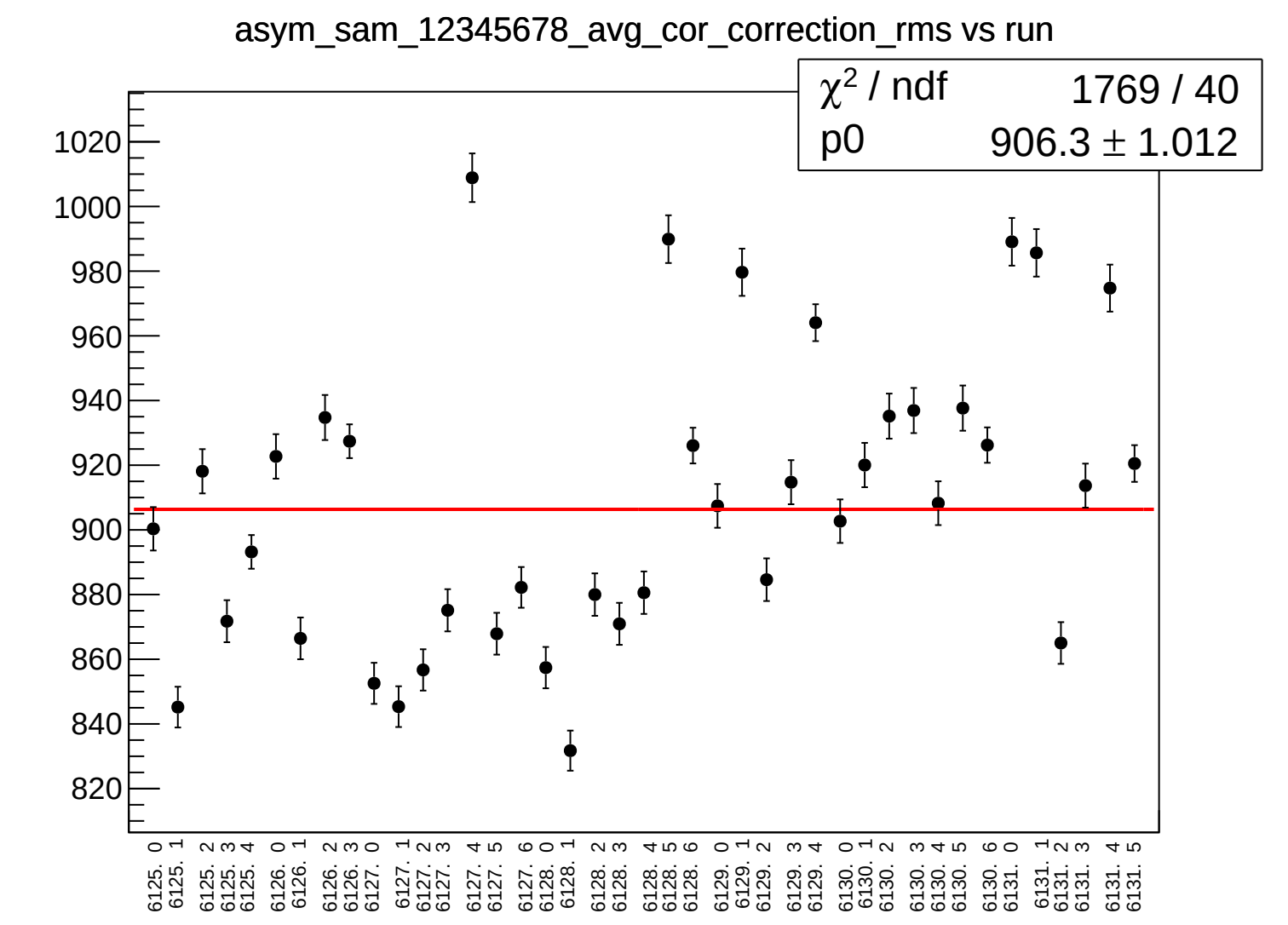

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 39.89 / 40
p0 44.74 ± 96.35
pull
Entries 41
Mean 25.55
Std Dev 9.015

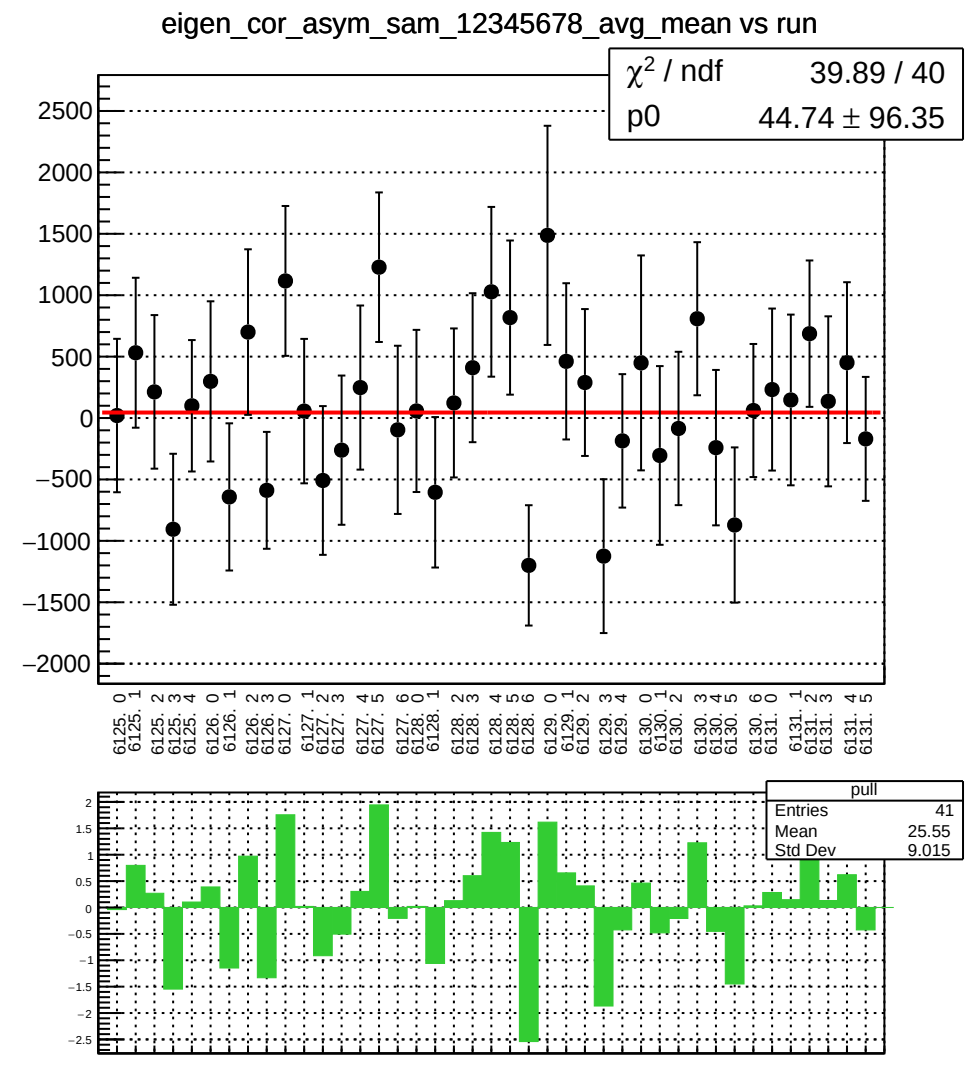

pull1D
Entries 41
Mean 0.04943
Std Dev 0.9852

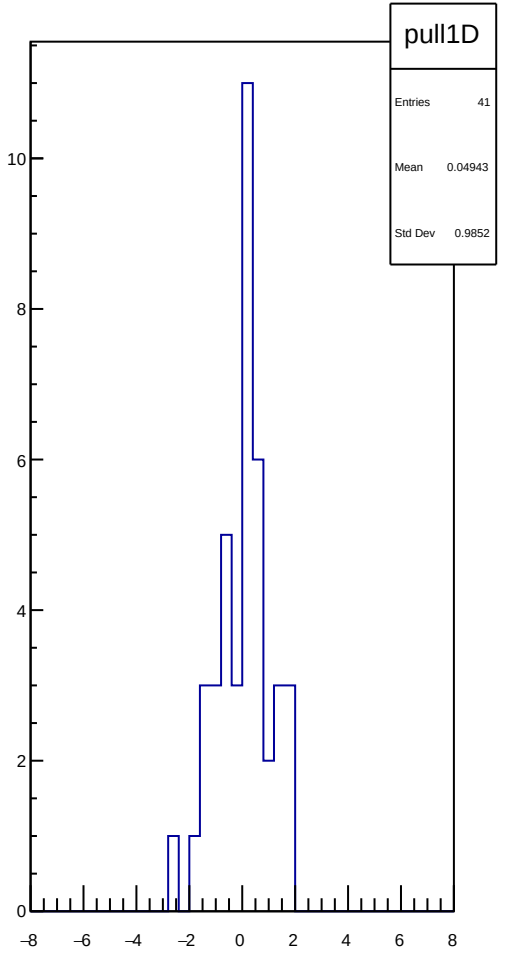

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 5030 / 40
p0 60.91 ± 0.06813
85
80
75
70
65
60
55
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

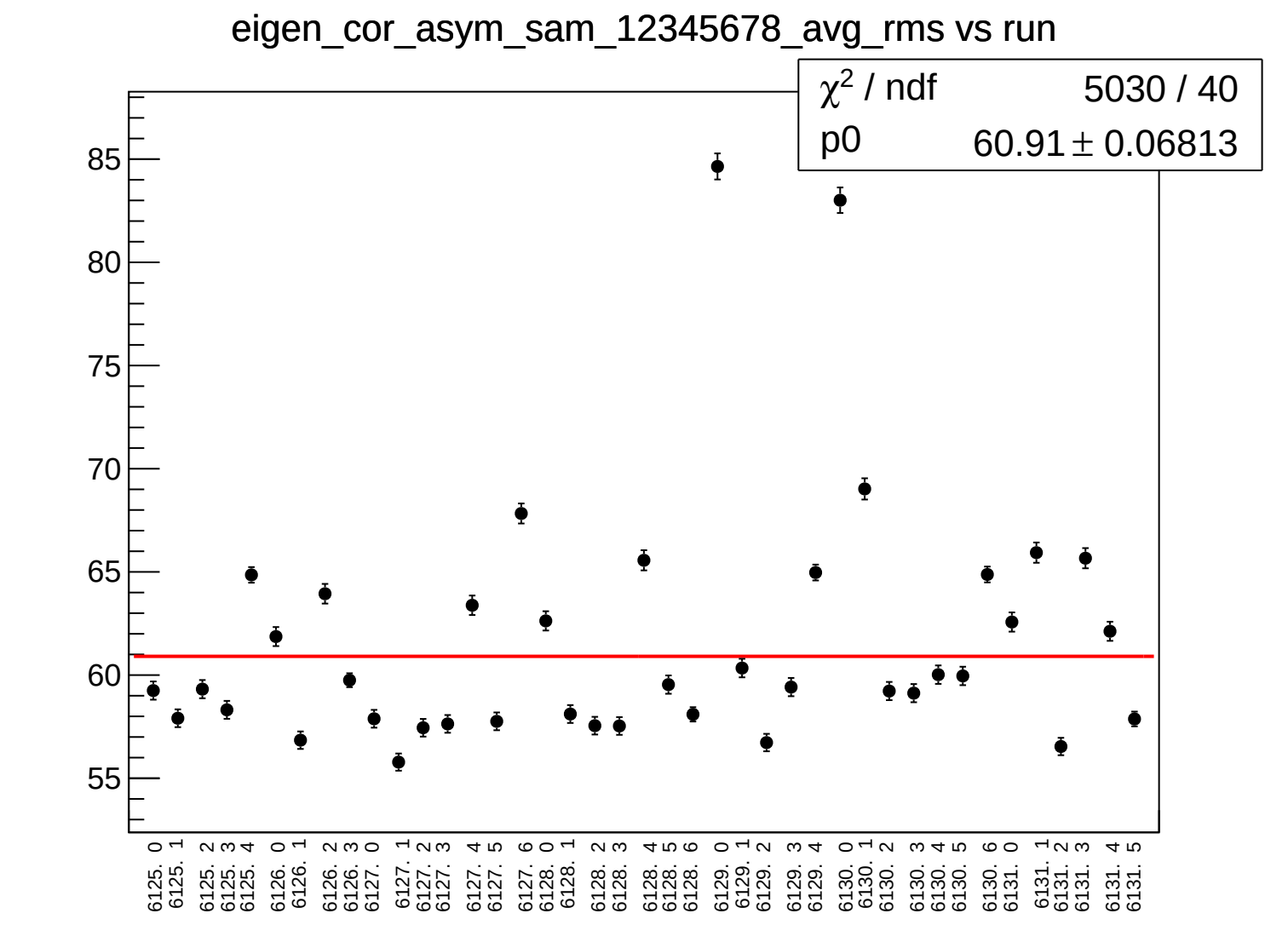

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 19.28 / 40
p0 −1040 ± 1431
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 244.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

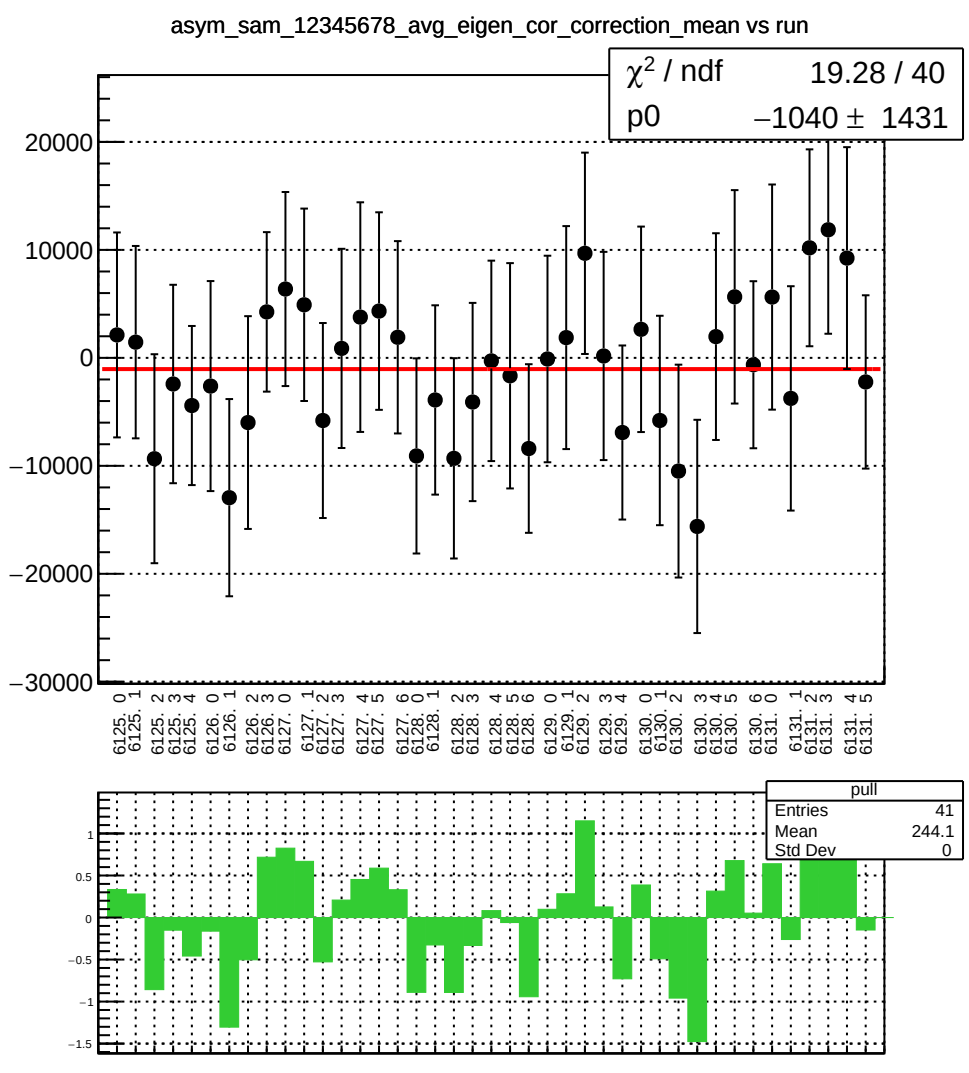

pull1D
Entries 41
Mean 0.007762
Std Dev 0.6857
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

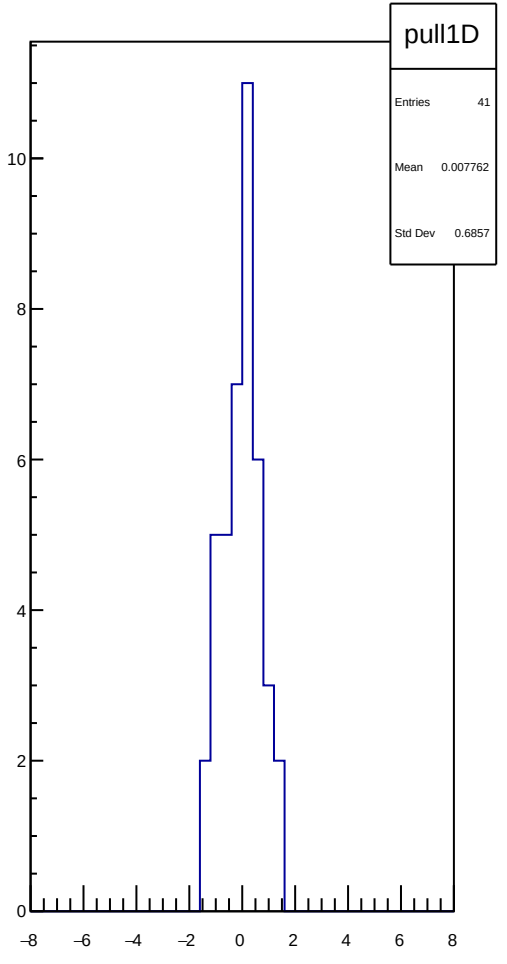

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 1769 / 40
p0 906.3 ± 1.012
1020
1000
980
960
940
920
900
880
860
840
820
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

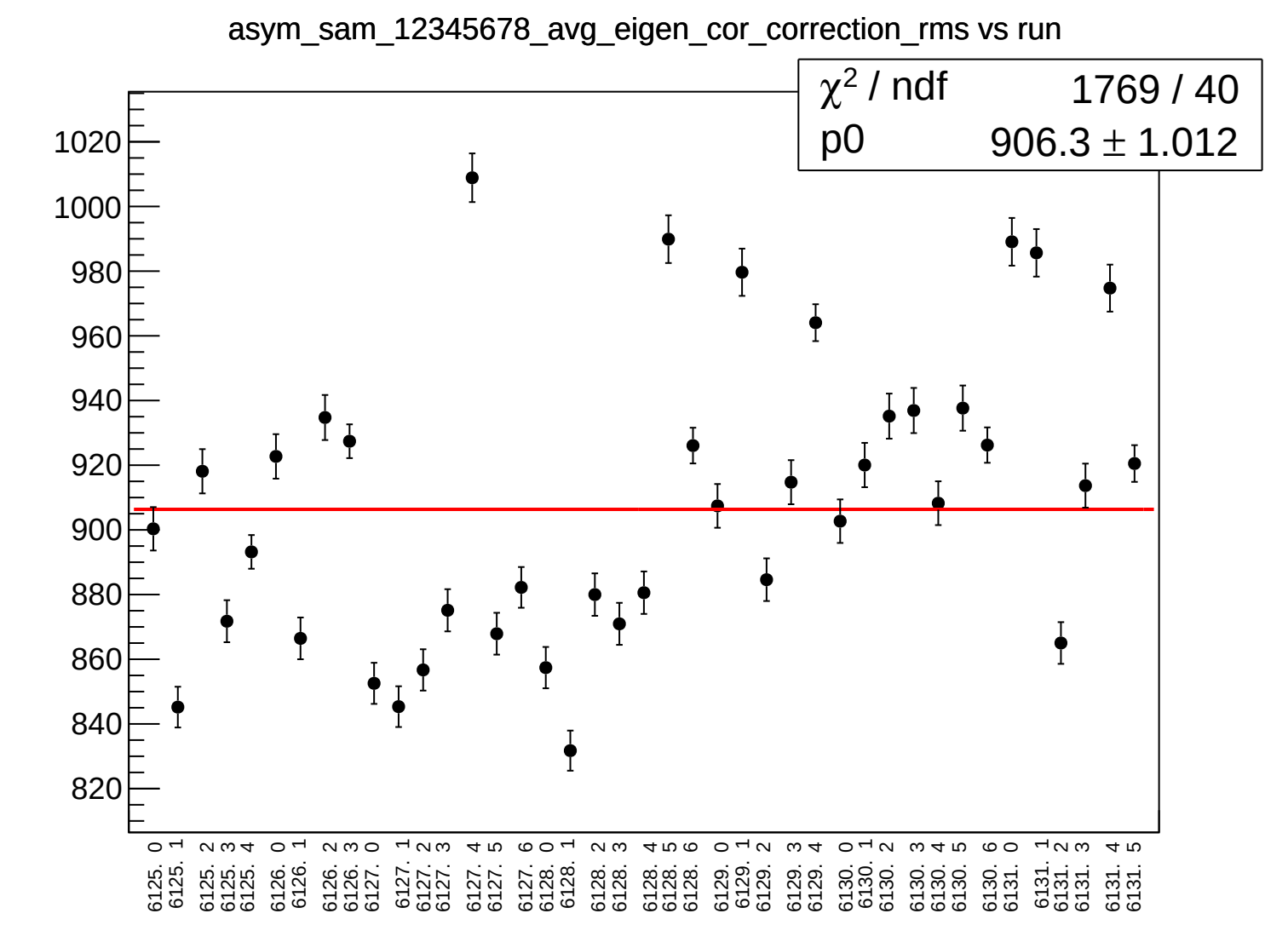

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 39.89 / 40
p0 44.74 ± 96.35
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 25.55
Std Dev 9.015
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

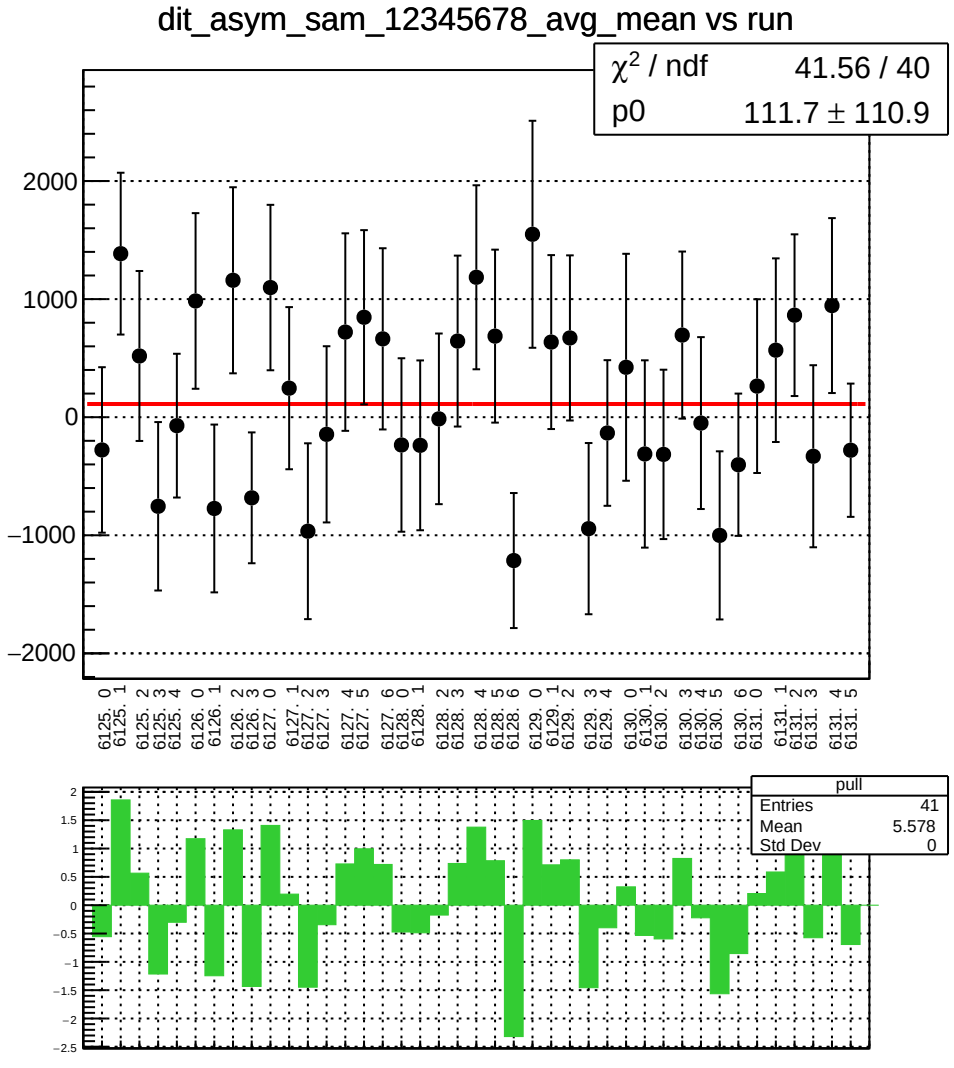

pull1D
Entries 41
Mean 0.04943
Std Dev 0.9852
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

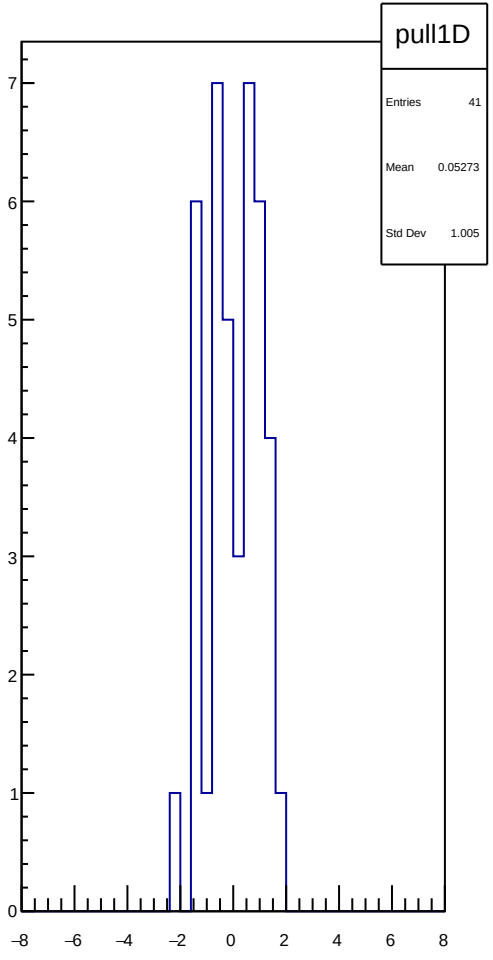

eigen_cor_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 5030 / 40
p0 60.91 ± 0.06813
85
80
75
70
65
60
55
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

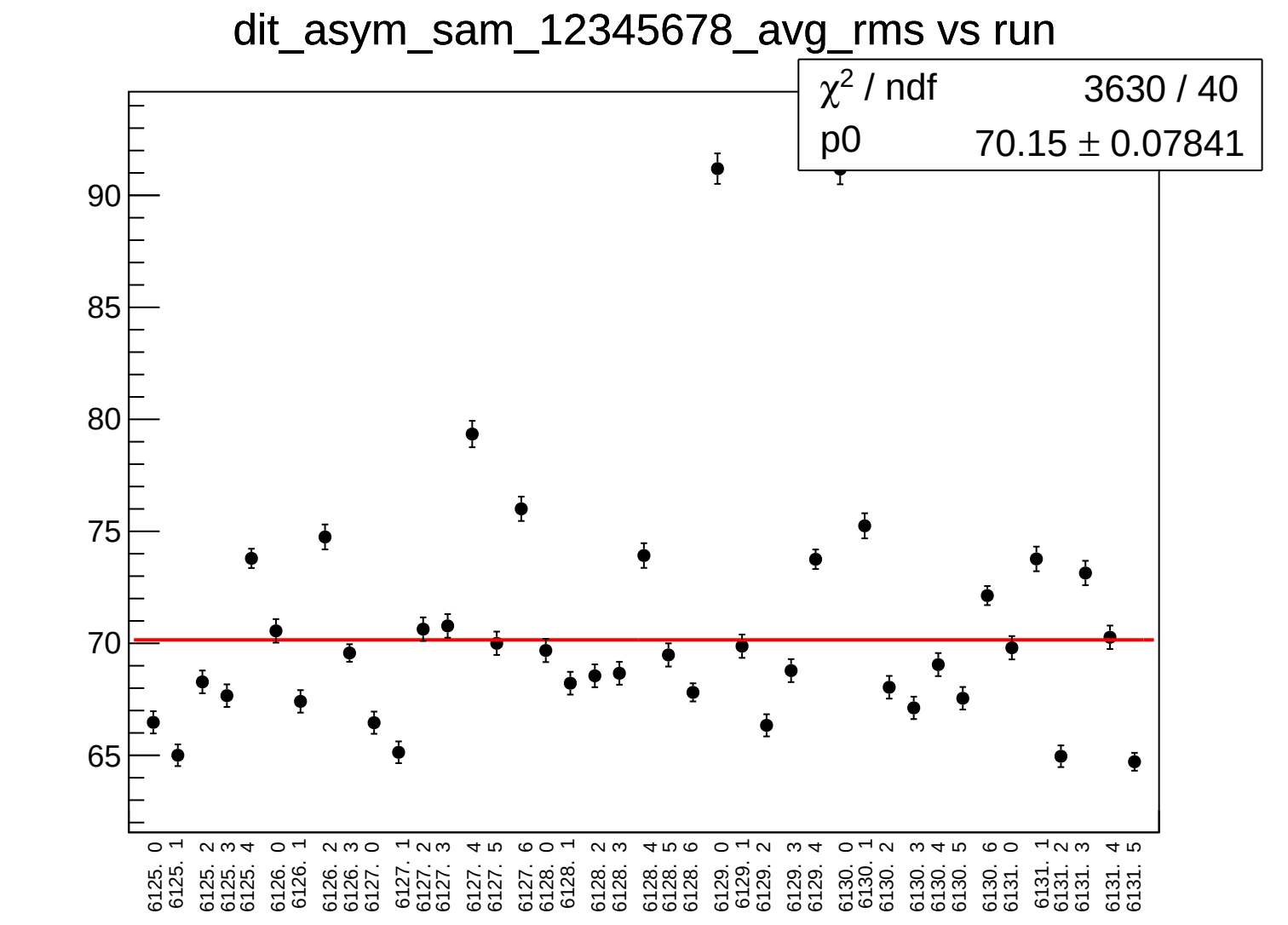

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 19.28 / 40
p0 −1040 ± 1431
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 244.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

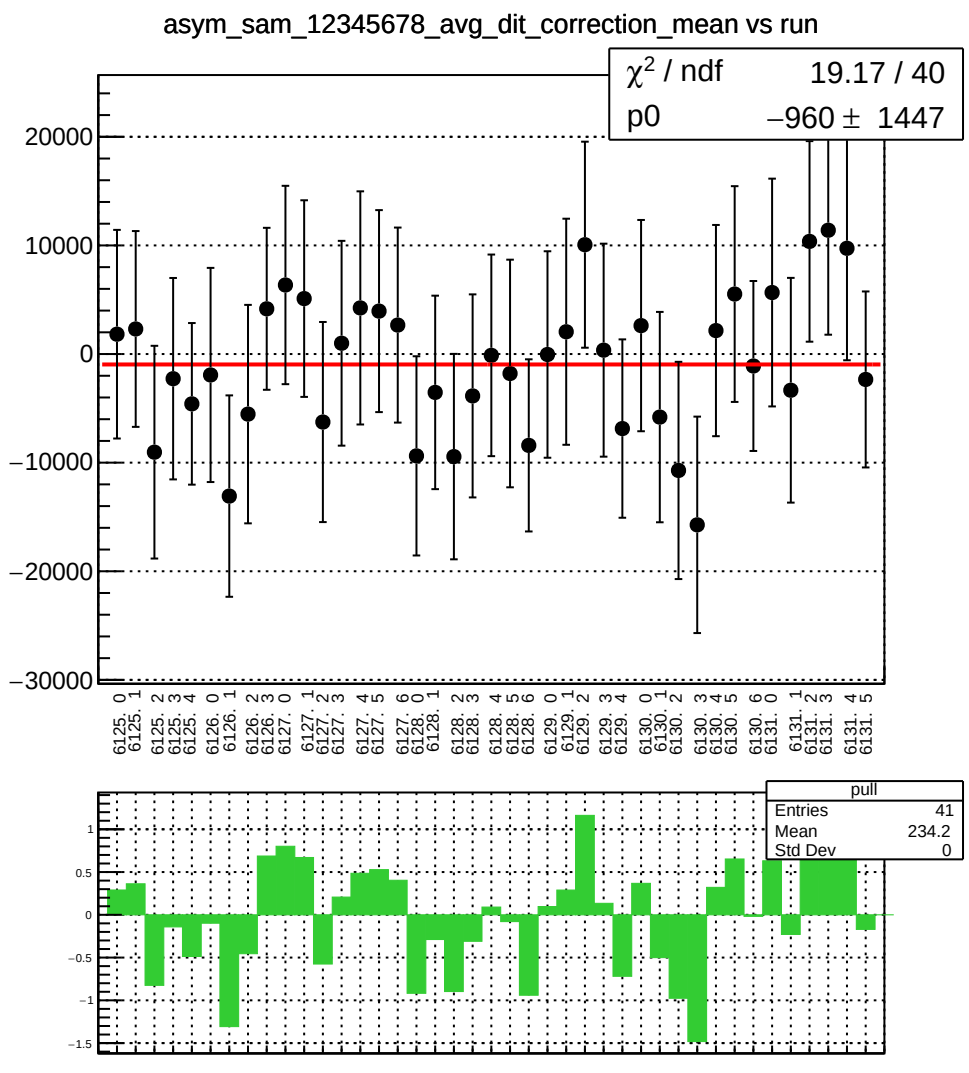

pull1D
Entries 41
Mean 0.007762
Std Dev 0.6857
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

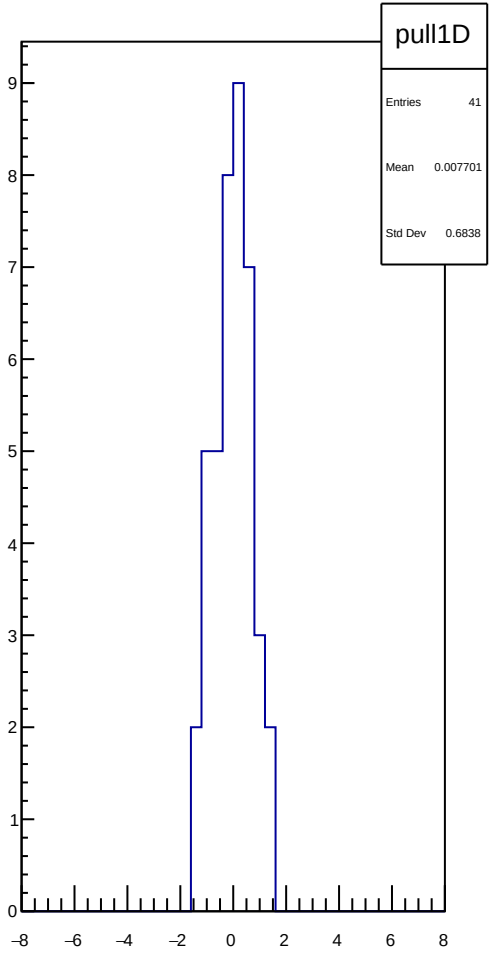

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 1769 / 40
p0 906.3 ± 1.012
1020
1000
980
960
940
920
900
880
860
840
820
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

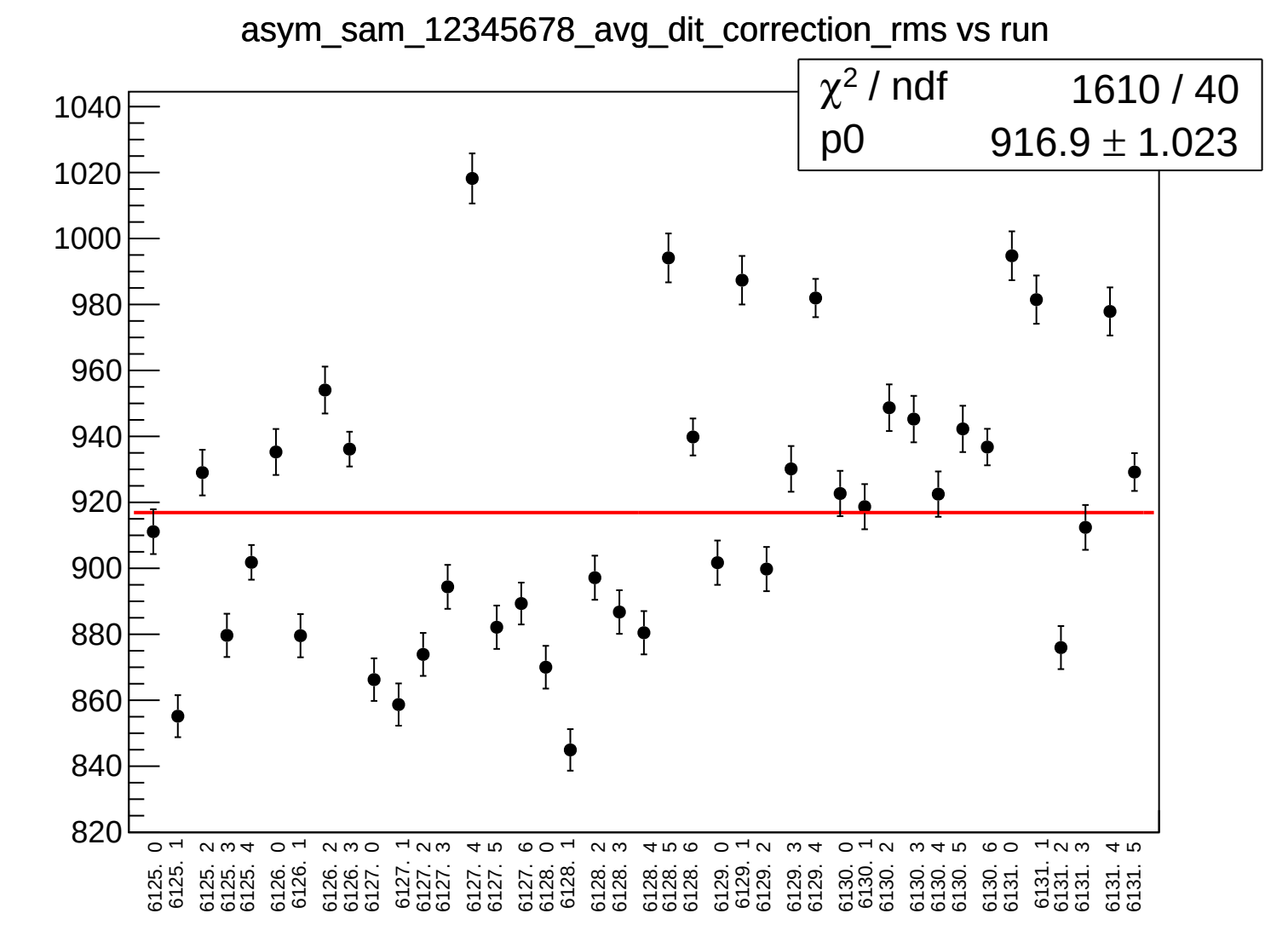

dit_asym_sam_12345678_avg_mean vs run
χ^2 / ndf 41.56 / 40
p0 111.7 ± 110.9
2000
1000
0
−1000
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 5.578
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

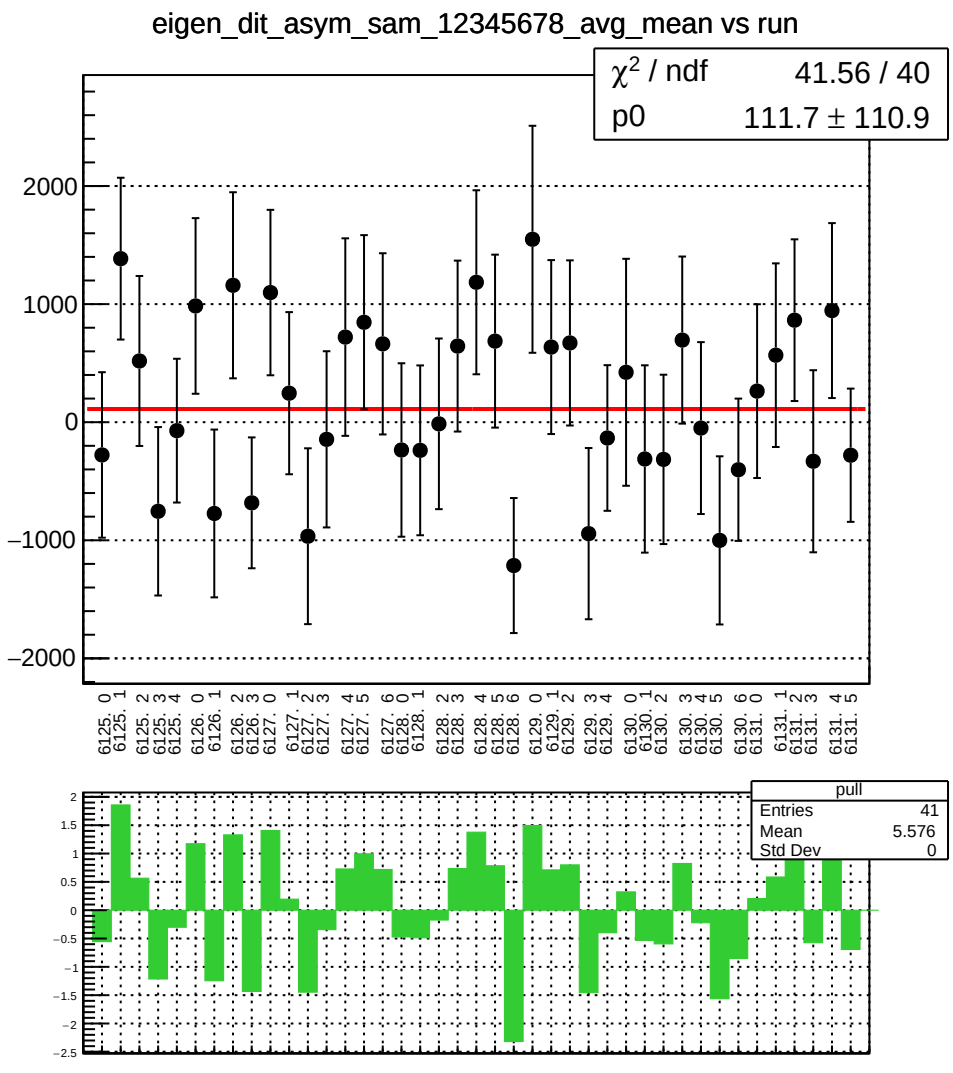

pull1D
Entries 41
Mean 0.05273
Std Dev 1.005
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

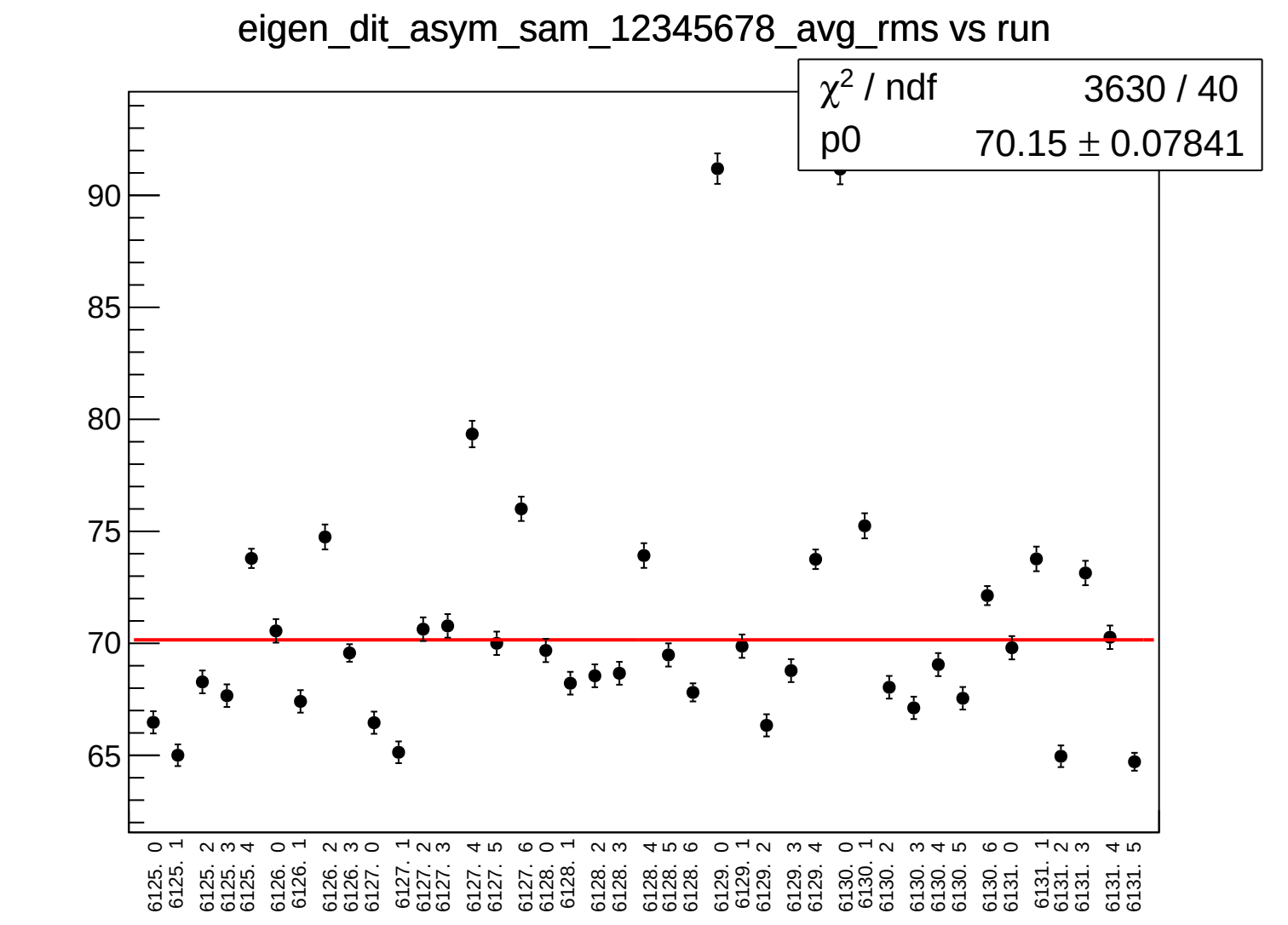

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 3630 / 40
p0 70.15 ± 0.07841
90
85
80
75
70
65
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

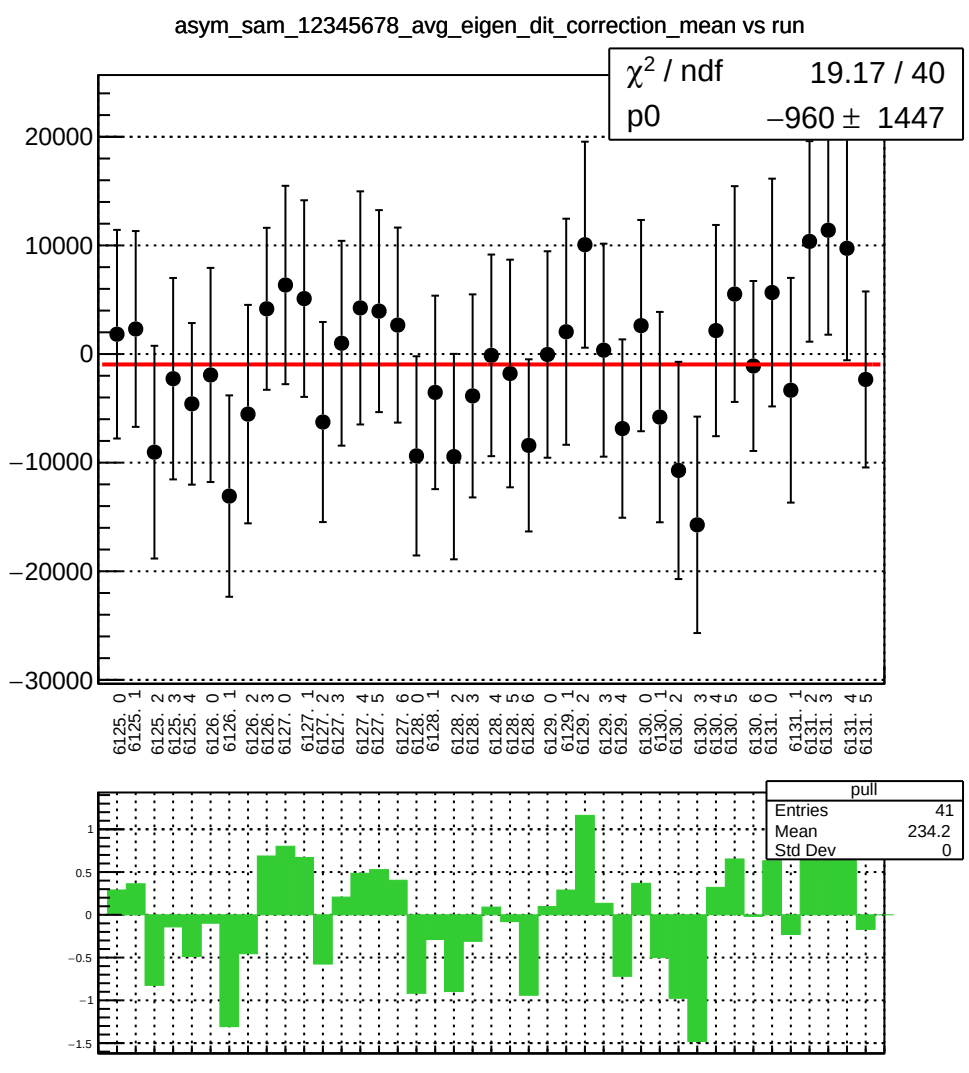

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 19.17 / 40
p0 −960 ± 1447
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 234.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

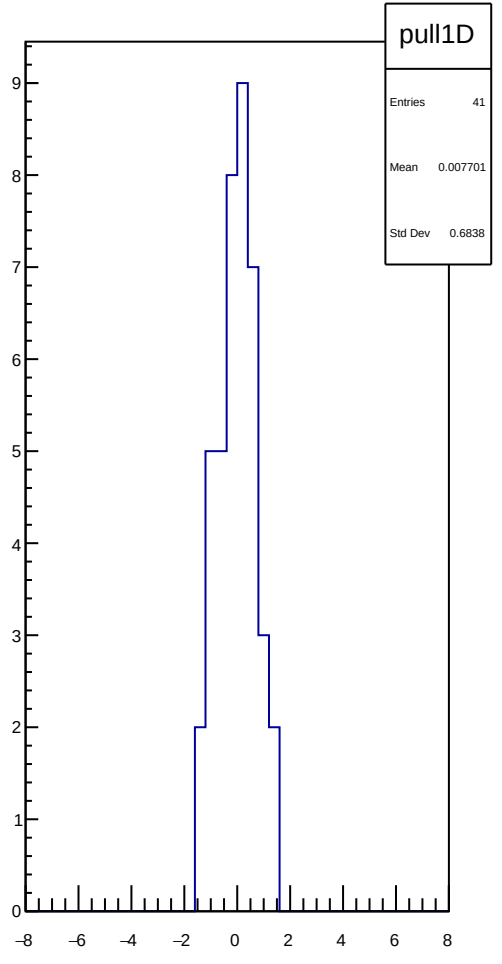

pull1D
Entries 41
Mean 0.007701
Std Dev 0.6838
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

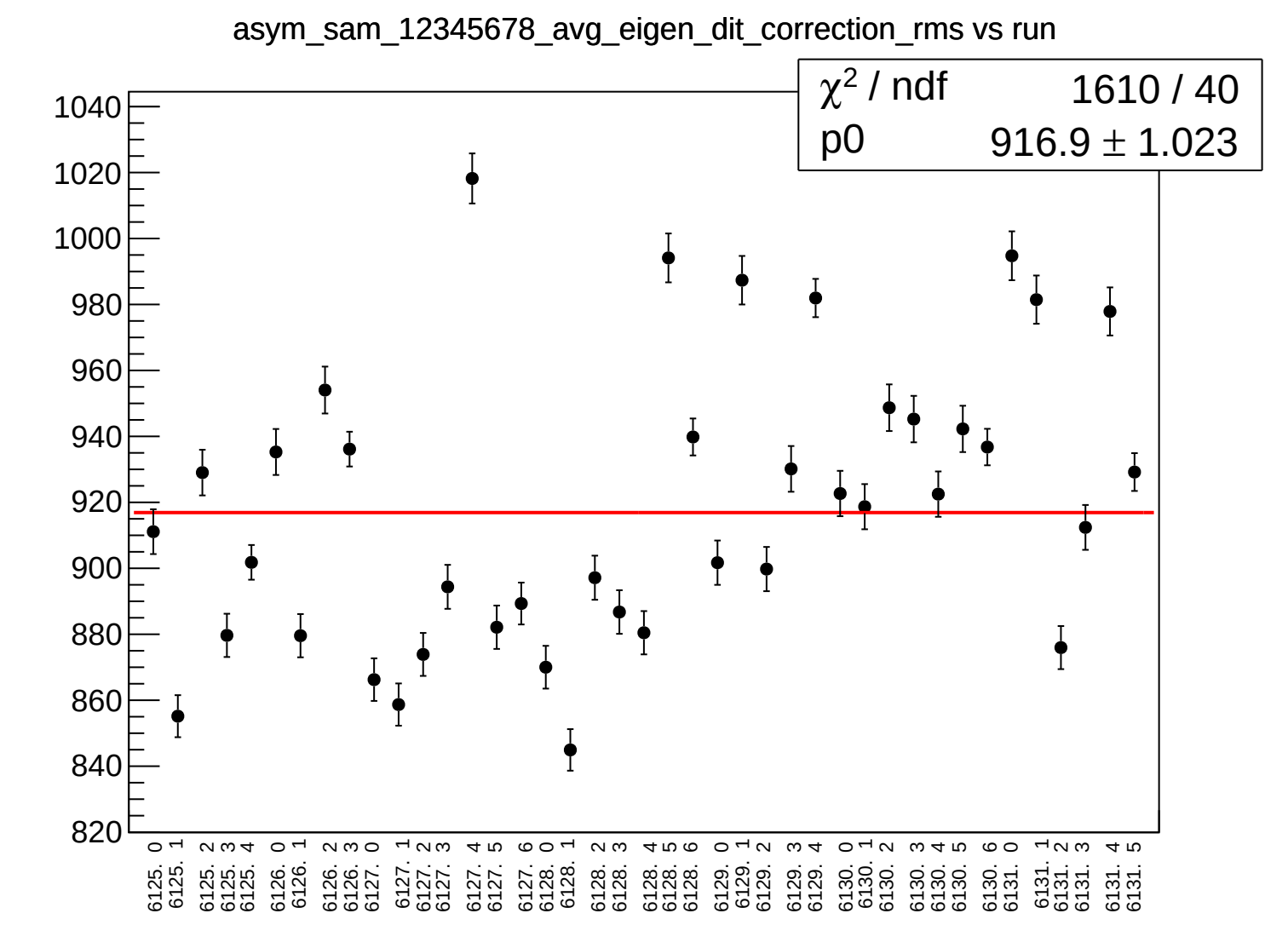

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 1610 / 40
p0 916.9 ± 1.023
1040
1020
1000
980
960
940
920
900
880
860
840
820
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

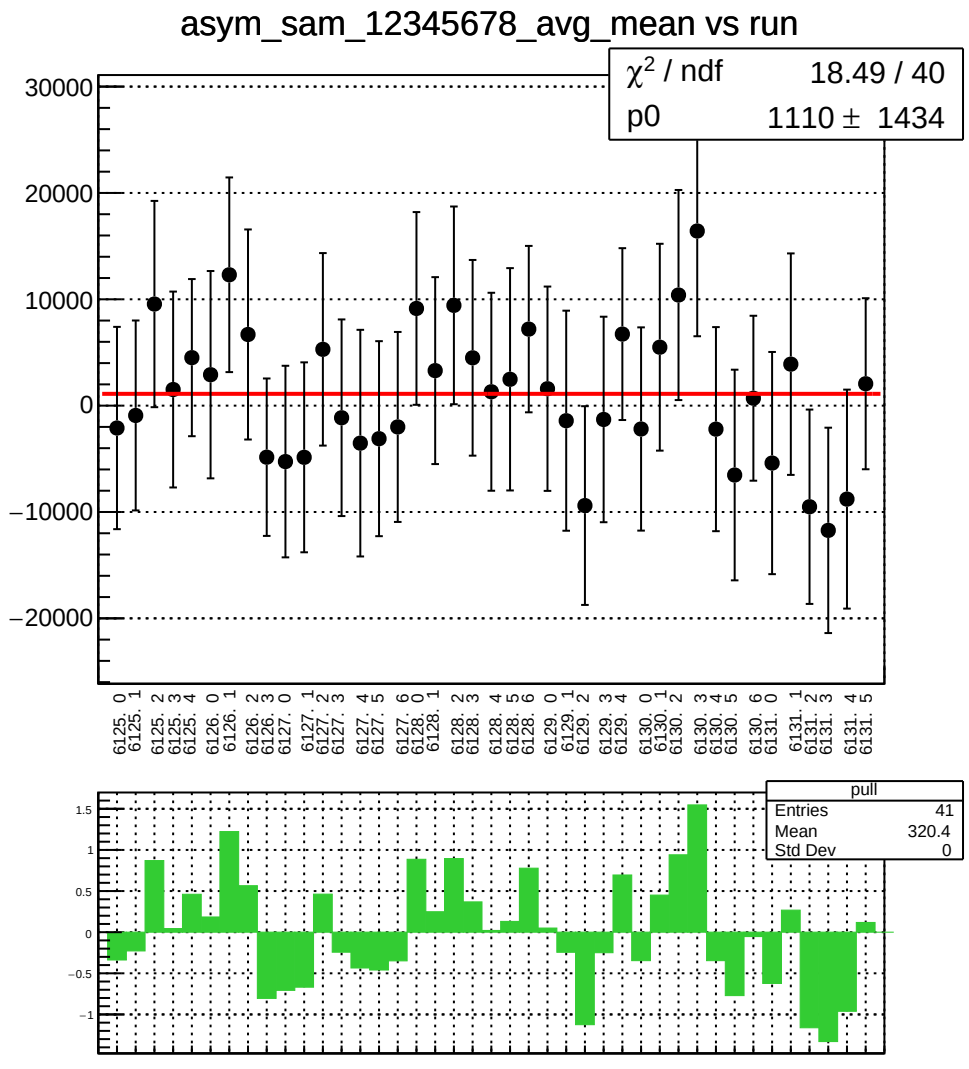

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 41.56 / 40
p0 111.7 ± 110.9
2000
1000
0
−1000
−2000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 5.576
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean 0.05273
Std Dev 1.005
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

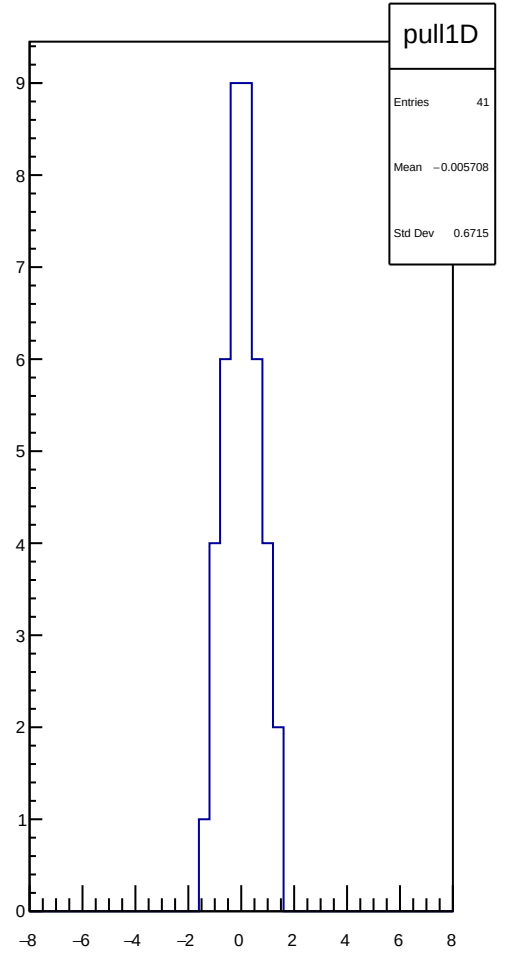

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 3630 / 40
p0 70.15 ± 0.07841
90
85
80
75
70
65
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

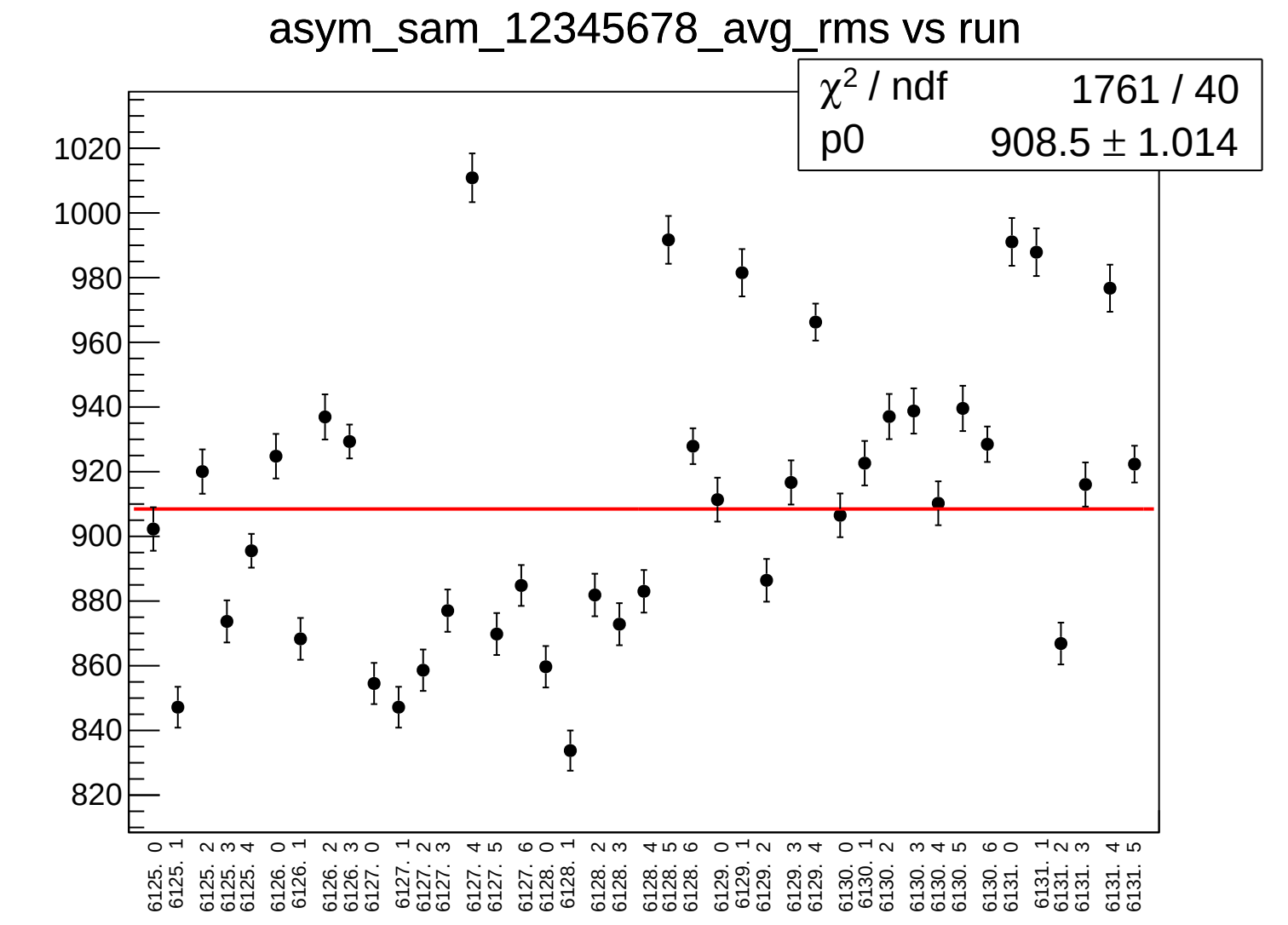

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 19.17 / 40
p0 −960 ± 1447
20000
10000
0
−10000
−20000
−30000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 234.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

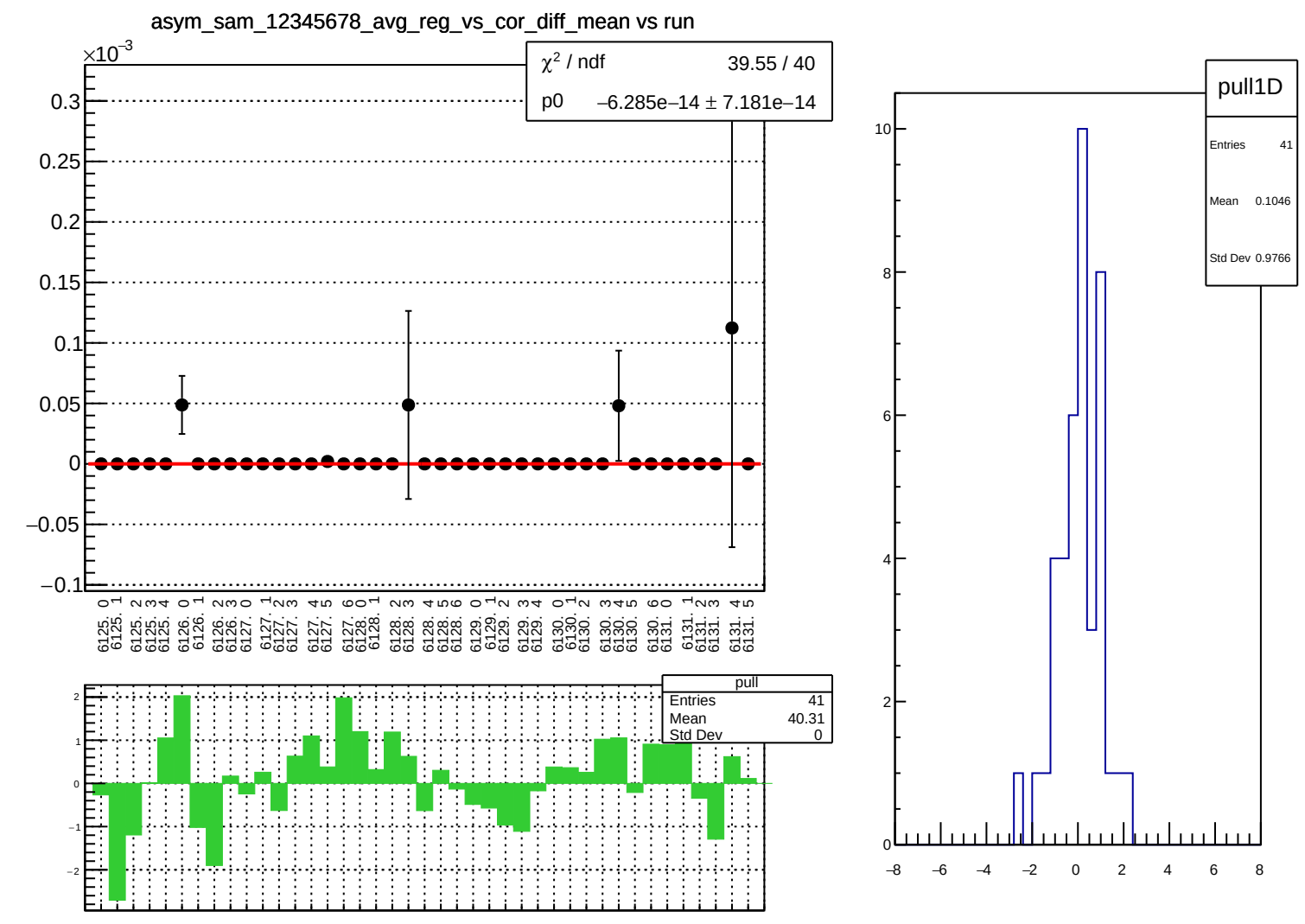

pull1D
Entries 41
Mean 0.007701
Std Dev 0.6838
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

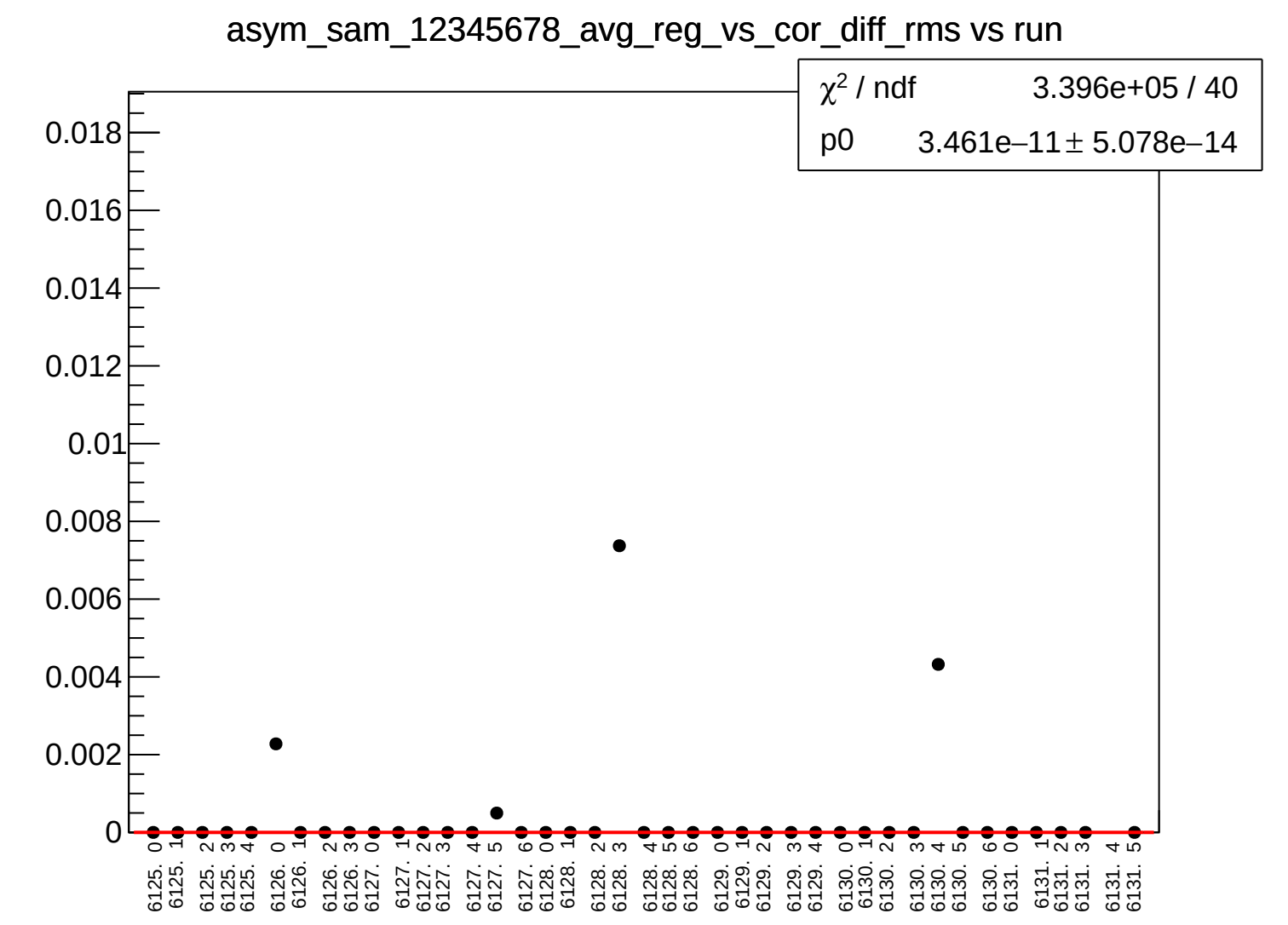

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 1610 / 40
p0 916.9 ± 1.023
1040
1020
1000
980
960
940
920
900
880
860
840
820
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

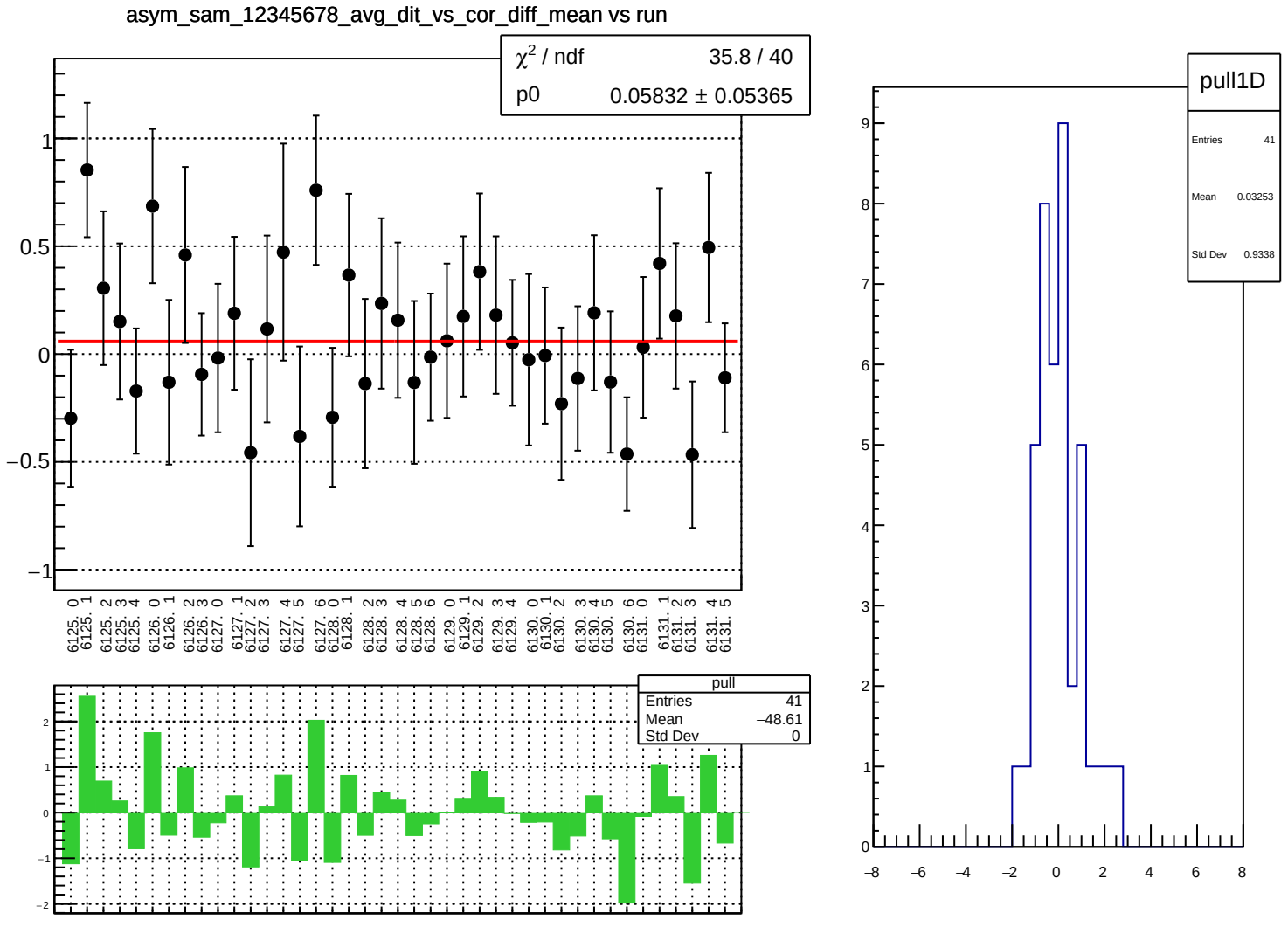

asym_sam_12345678_avg_mean vs run
χ² / ndf 18.49 / 40
p0 1110 ± 1434
30000
20000
10000
0
−10000
−20000
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 320.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

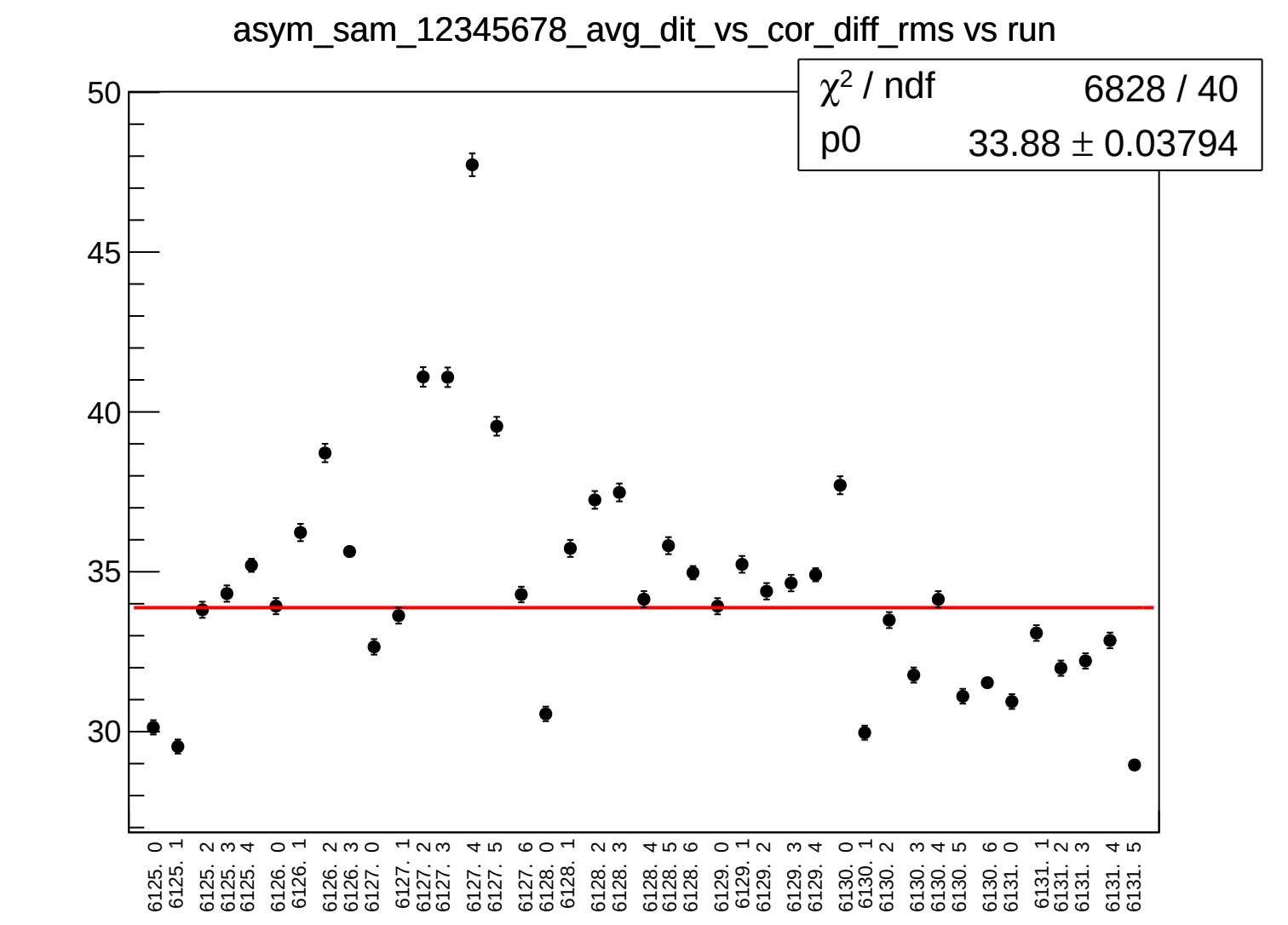

pull1D
Entries 41
Mean −0.005708
Std Dev 0.6715
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

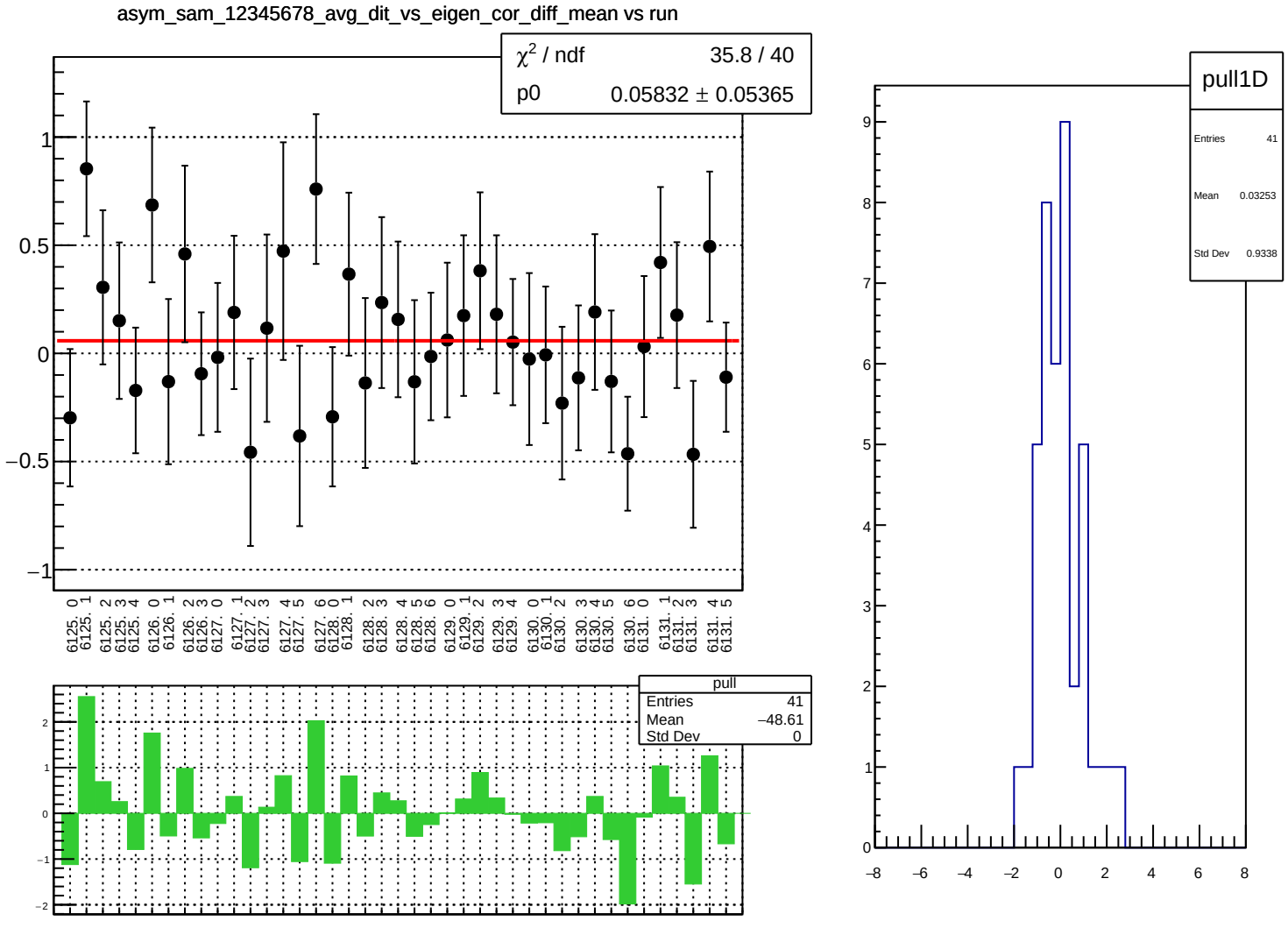

asym_sam_12345678_avg_rms vs run
χ² / ndf 1761 / 40
p0 908.5 ± 1.014
1020
1000
980
960
940
920
900
880
860
840
820
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

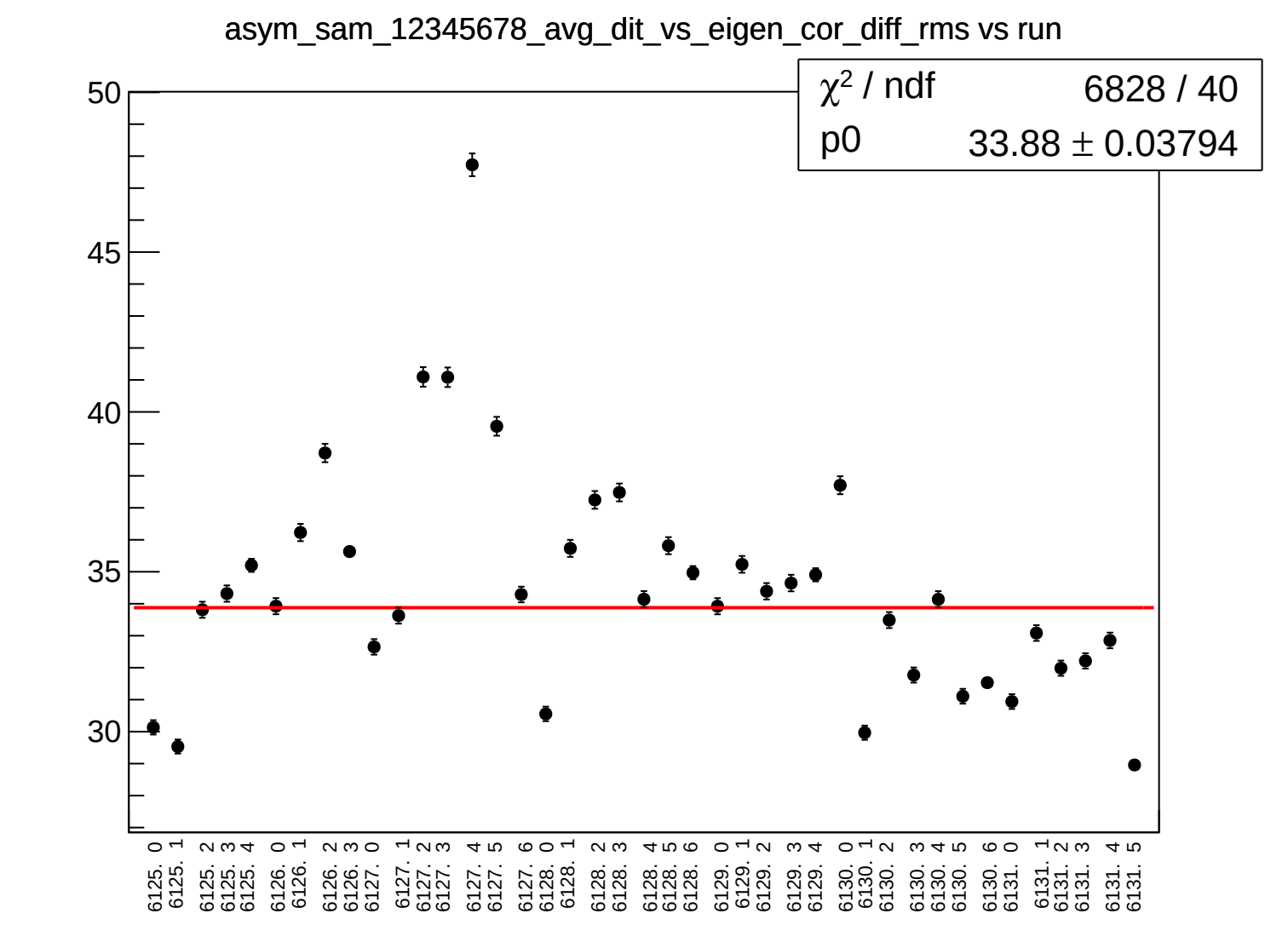

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 39.55 / 40
p0 −6.285e−14 ± 7.181e−14
0.3
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 40.31
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.1046
Std Dev 0.9766
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

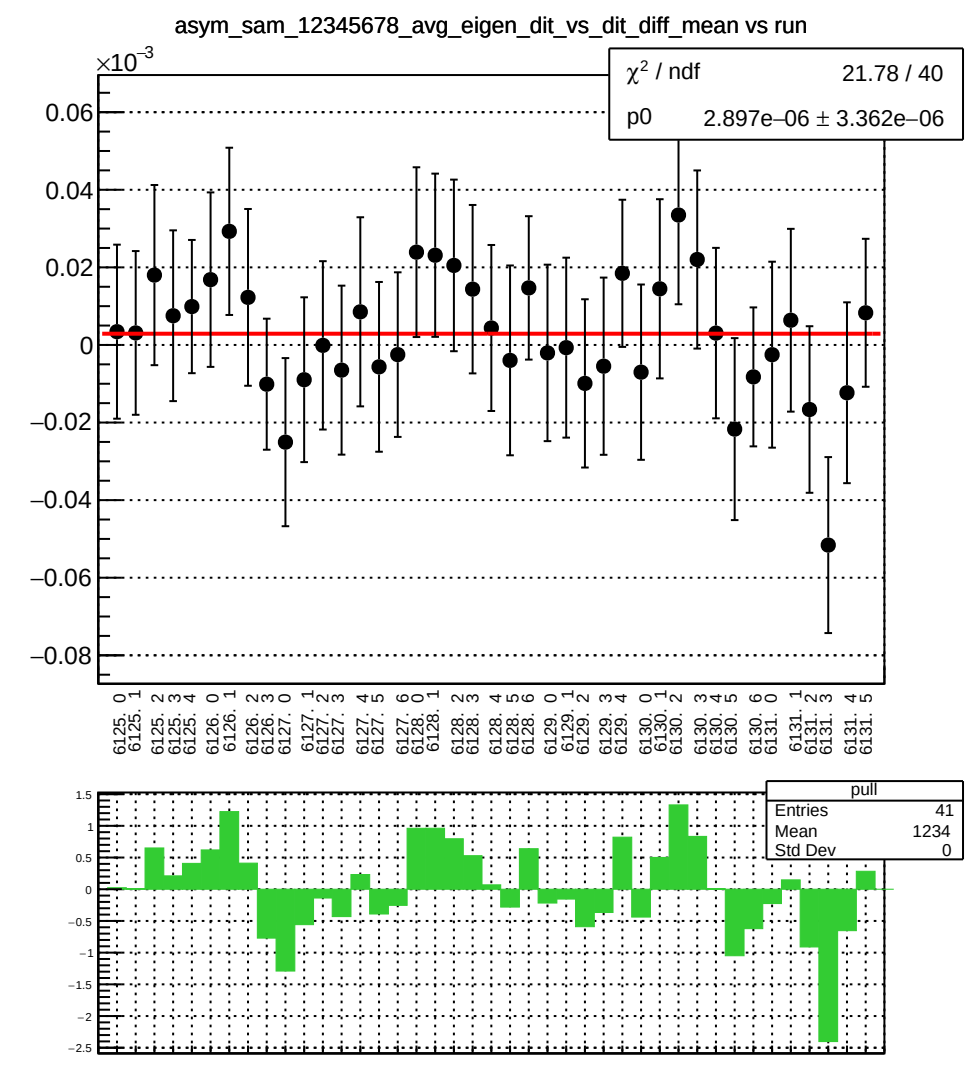

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.396e+05 / 40
p0 3.461e−11 ± 5.078e−14
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

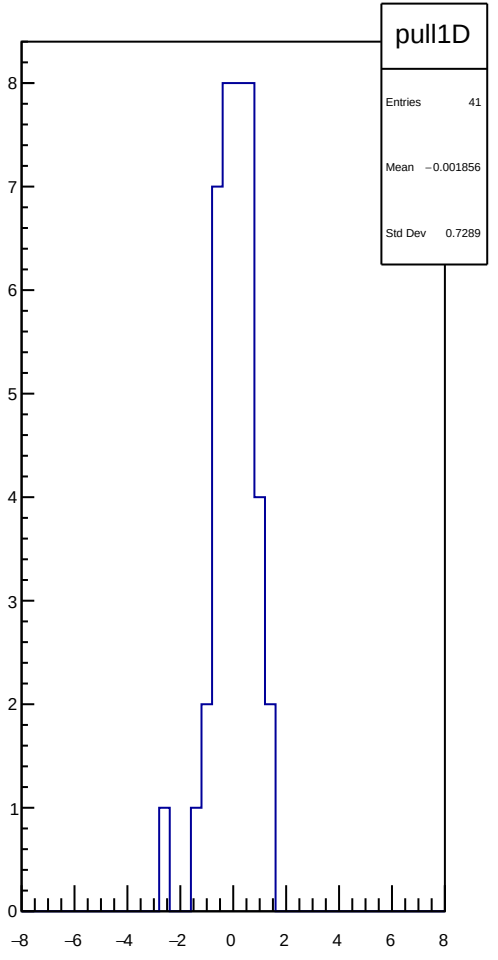

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 35.8 / 40
p0 0.05832 ± 0.05365
pull
Entries 41
Mean −48.61
Std Dev 0
pull1D
Entries 41
Mean 0.03253
Std Dev 0.9338

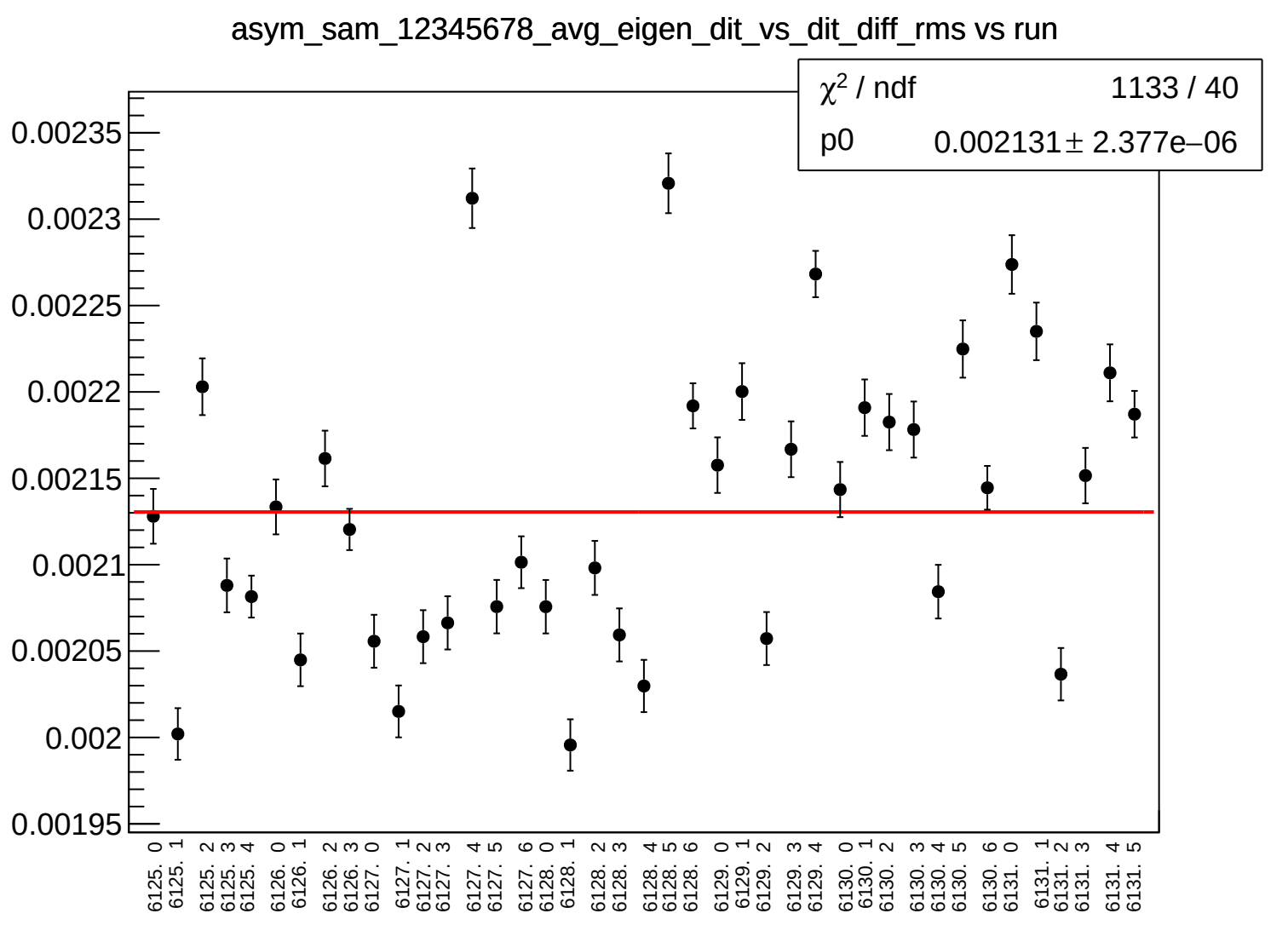

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6828 / 40
p0 33.88 ± 0.03794
50
45
40
35
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

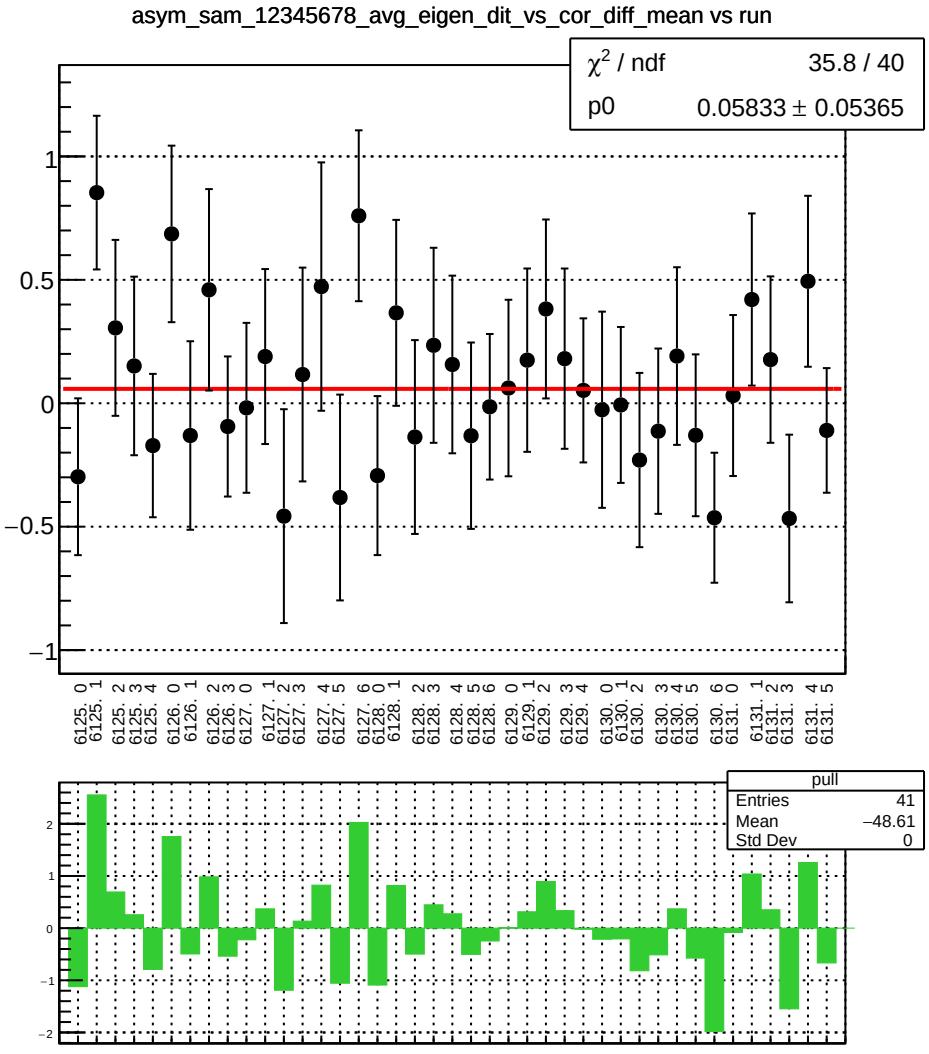

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.8 / 40
p0 0.05832 ± 0.05365
pull
Entries 41
Mean −48.61
Std Dev 0
pull1D
Entries 41
Mean 0.03253
Std Dev 0.9338

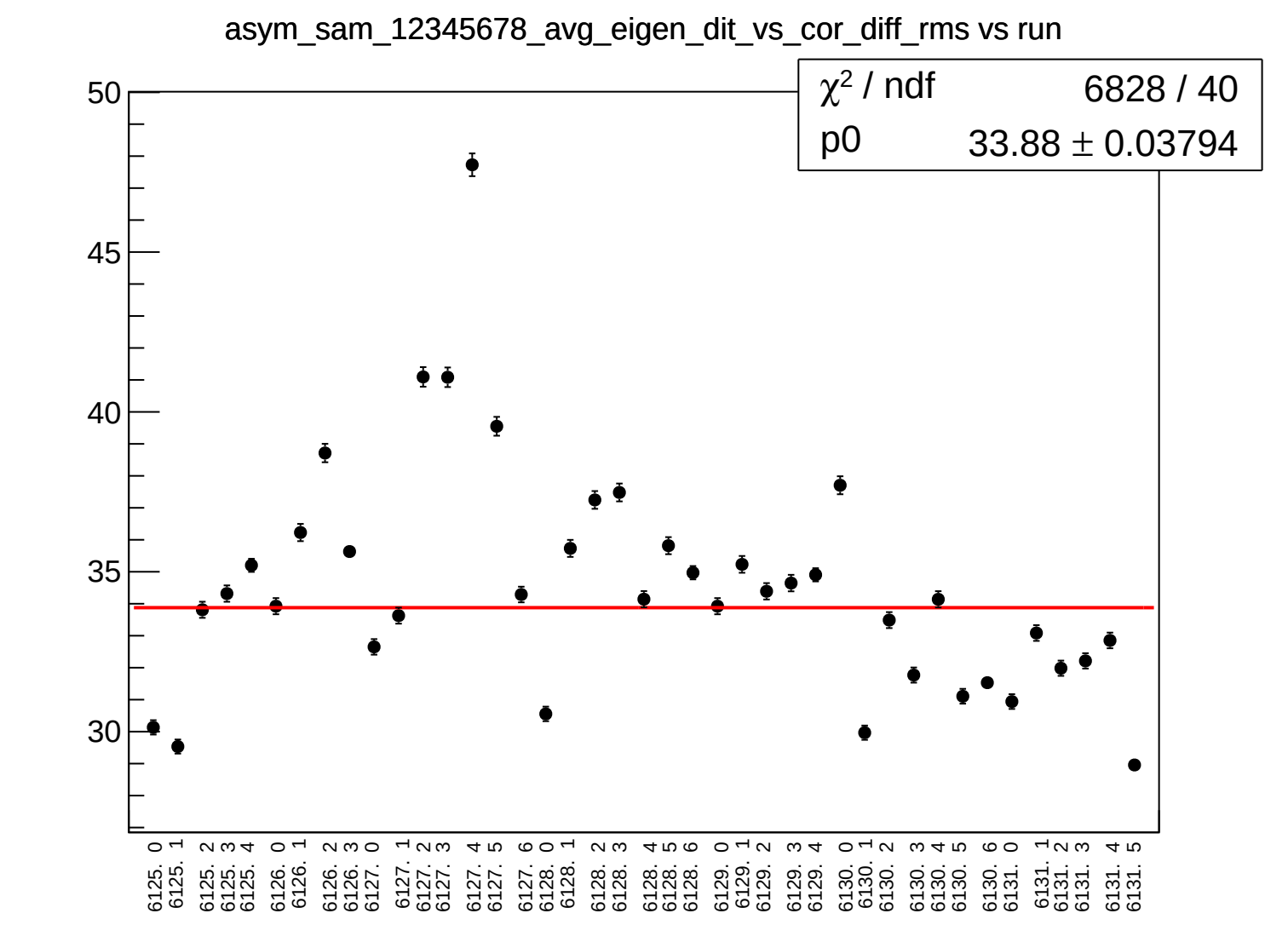

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6828 / 40
p0 33.88 ± 0.03794
50
45
40
35
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

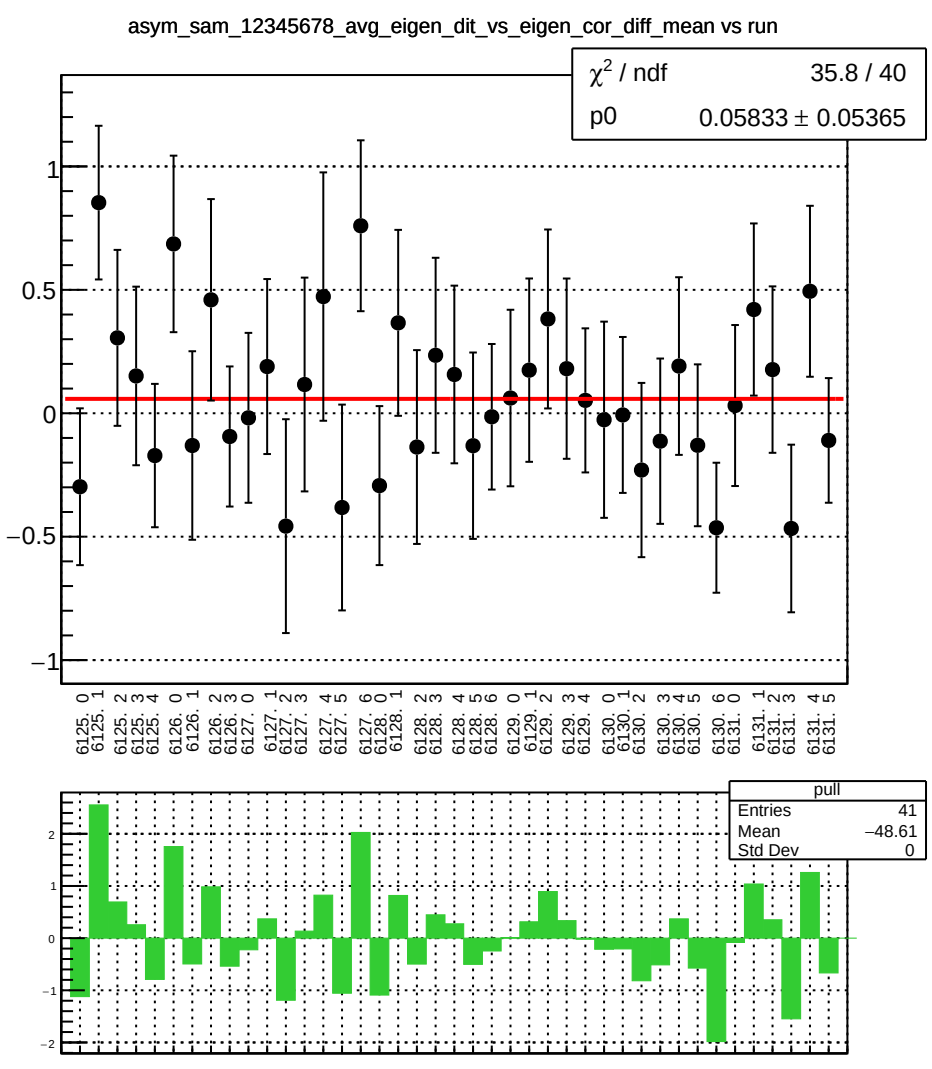

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 21.78 / 40
p0 2.897e−06 ± 3.362e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1234
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

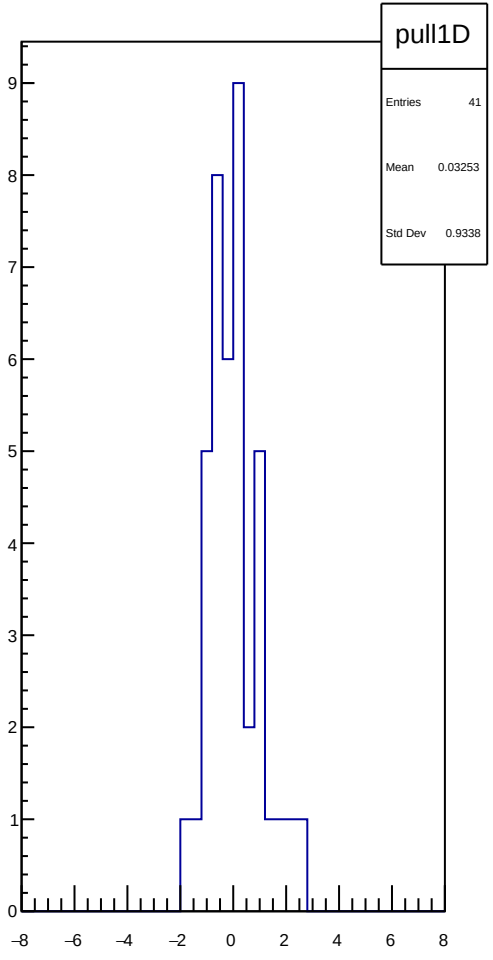

pull1D
Entries 41
Mean −0.001856
Std Dev 0.7289
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

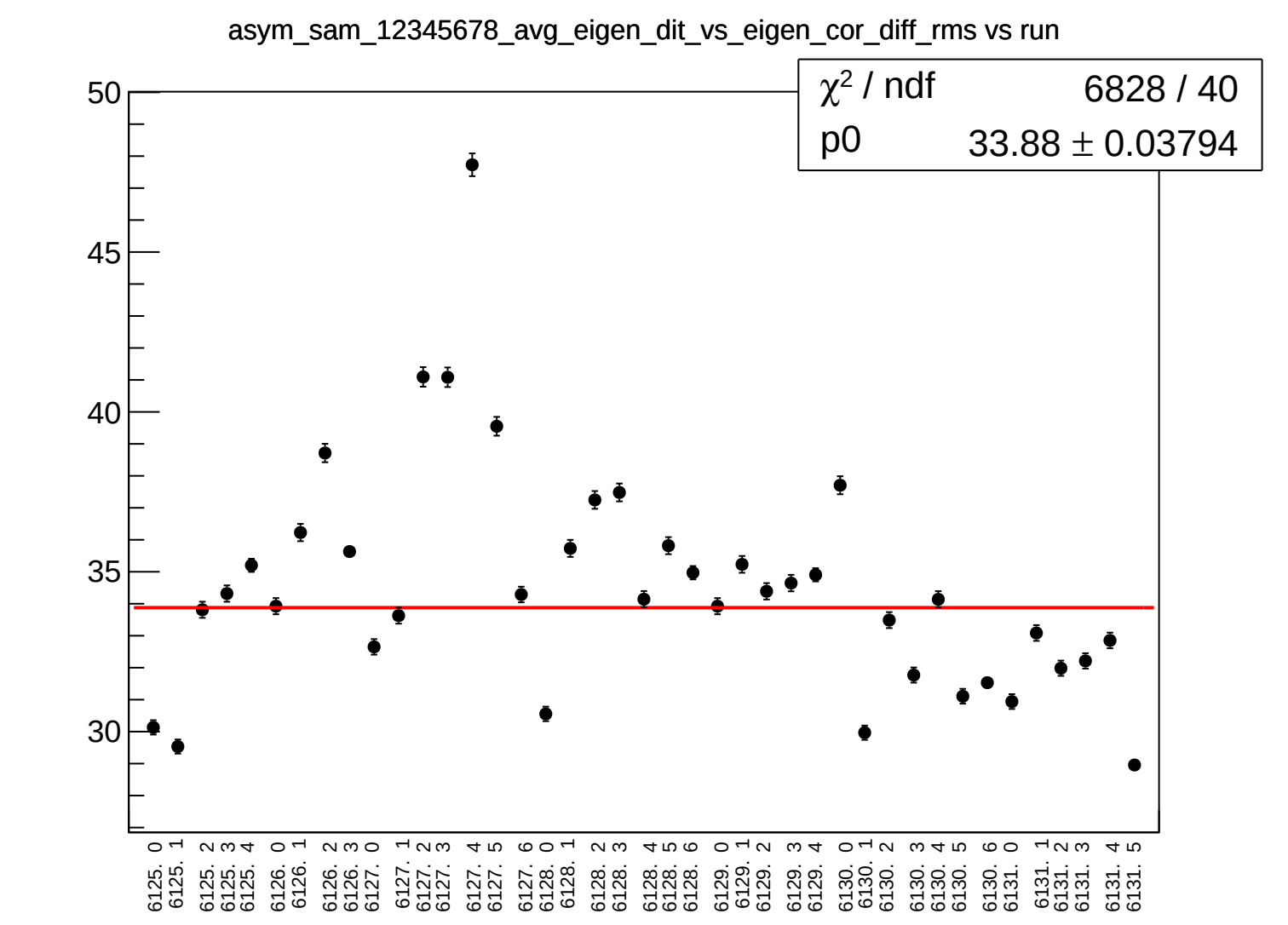

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1133 / 40
p0 0.002131 ± 2.377e−06
0.00235
0.0023
0.00225
0.0022
0.00215
0.0021
0.00205
0.002
0.00195
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

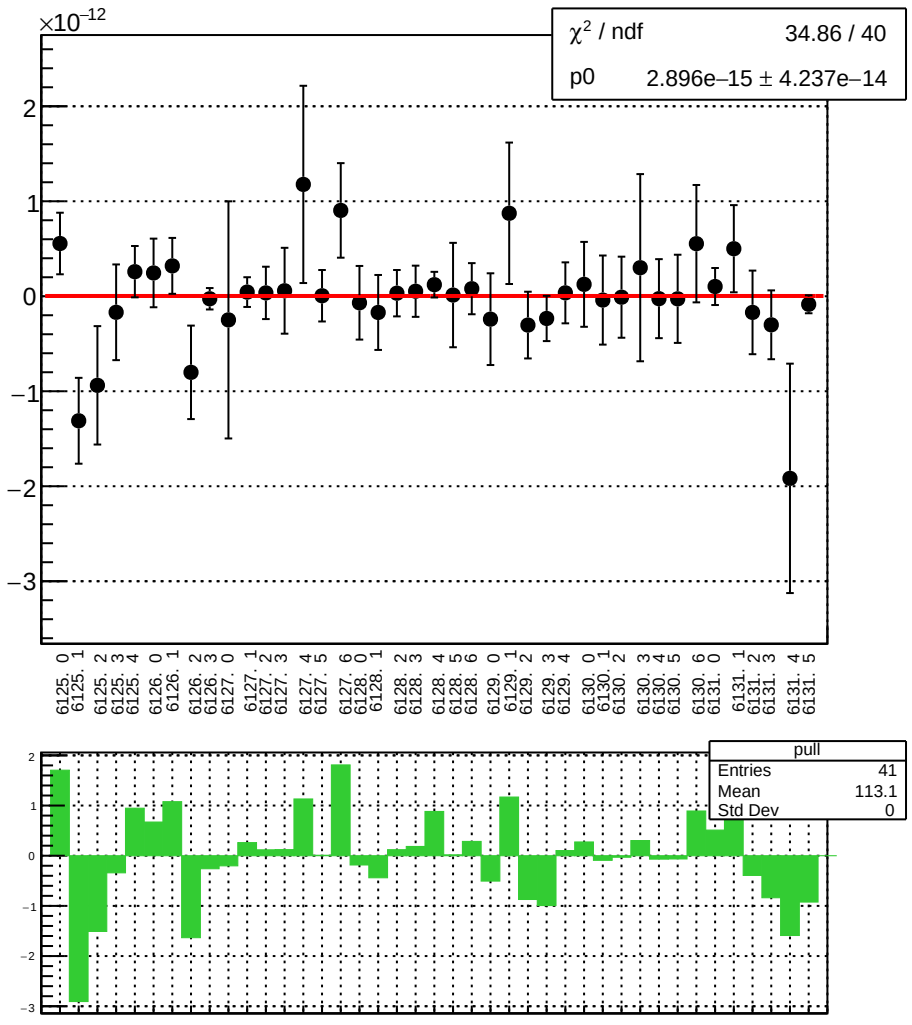

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.8 / 40
p0 0.05833 ± 0.05365
pull
Entries 41
Mean −48.61
Std Dev 0
pull1D
Entries 41
Mean 0.03253
Std Dev 0.9338

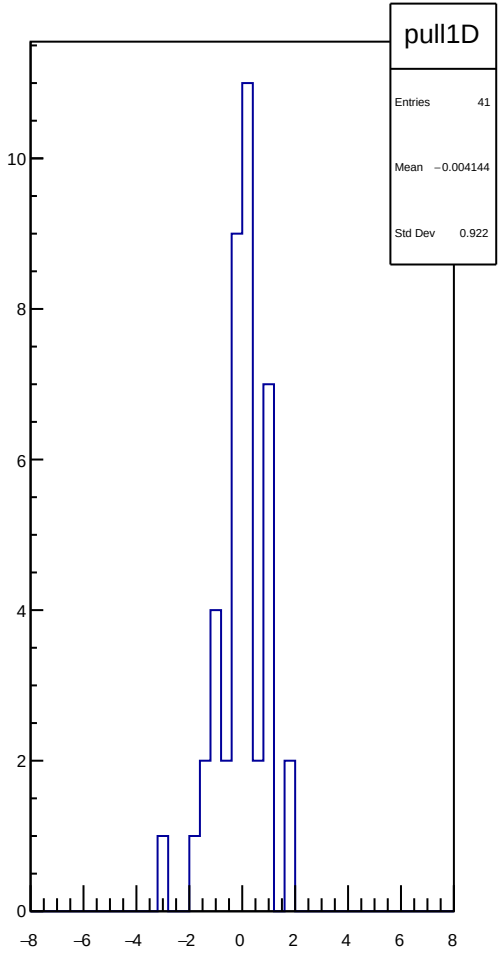

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6828 / 40
p0 33.88 ± 0.03794
50
45
40
35
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

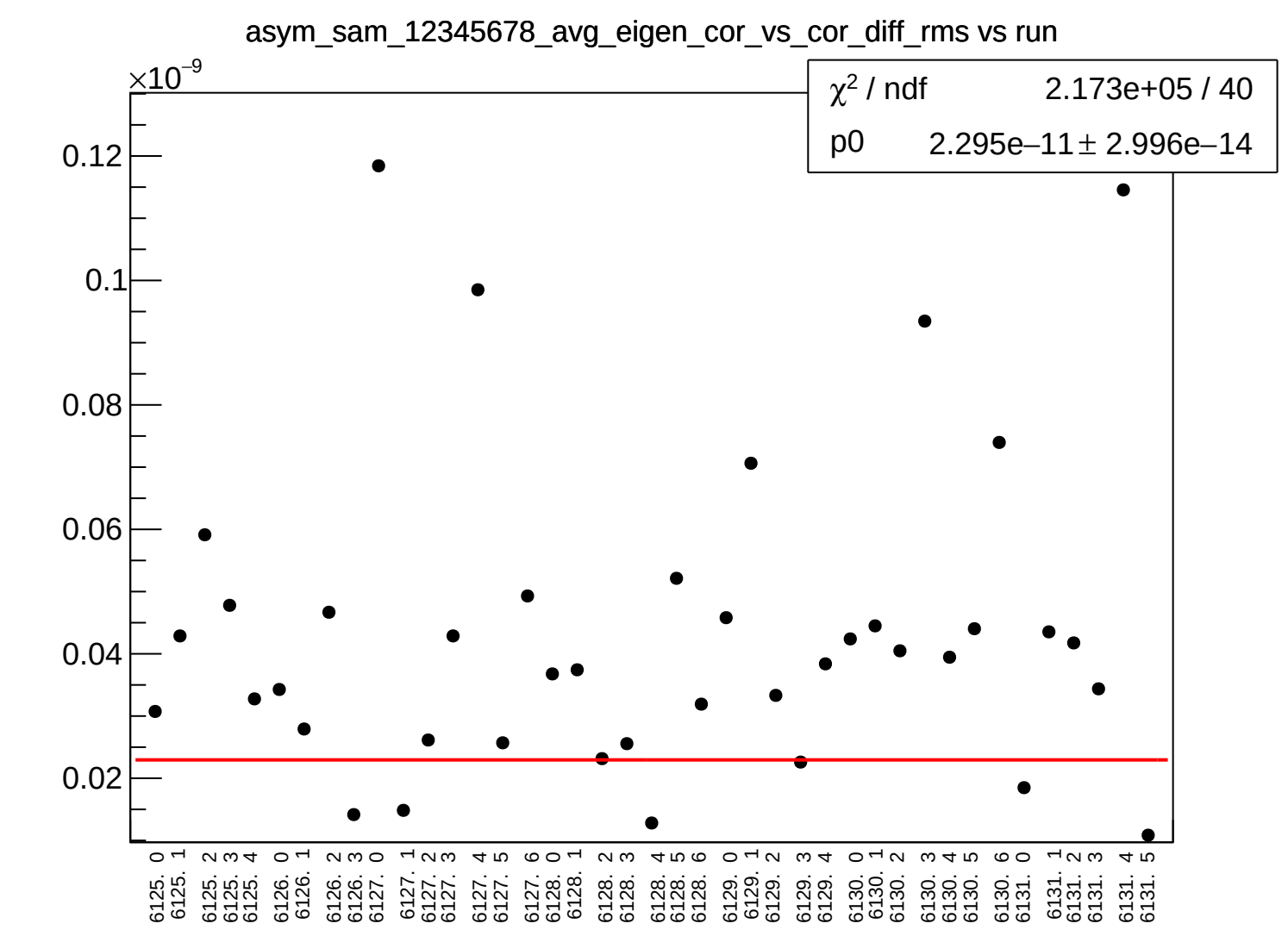

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.8 / 40
p0 0.05833 ± 0.05365
1
0.5
0
−0.5
−1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −48.61
Std Dev 0
2
1
0
−1
−2

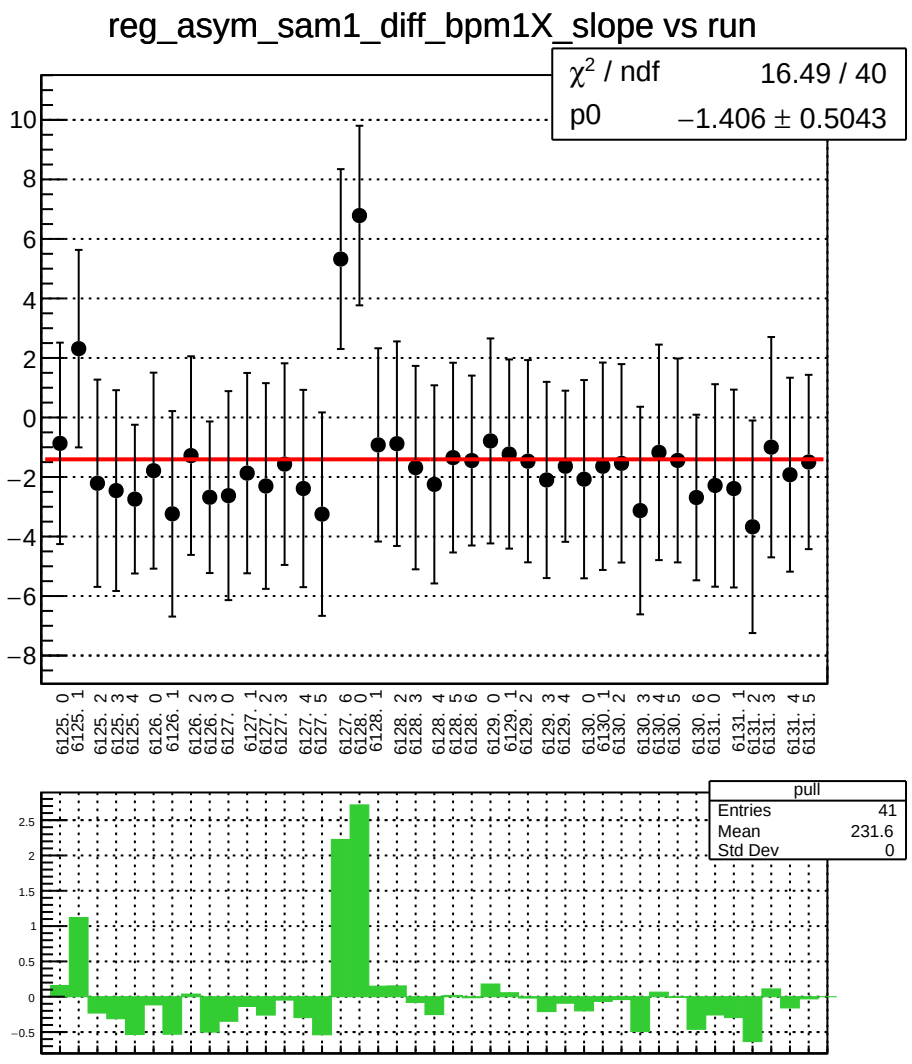

pull1D
Entries 41
Mean 0.03253
Std Dev 0.9338
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

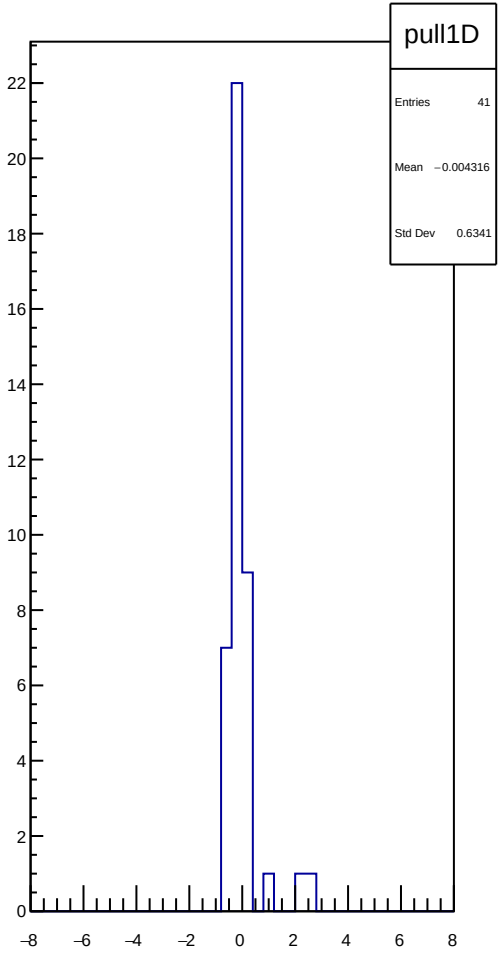

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6828 / 40
p0 33.88 ± 0.03794
50
45
40
35
30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

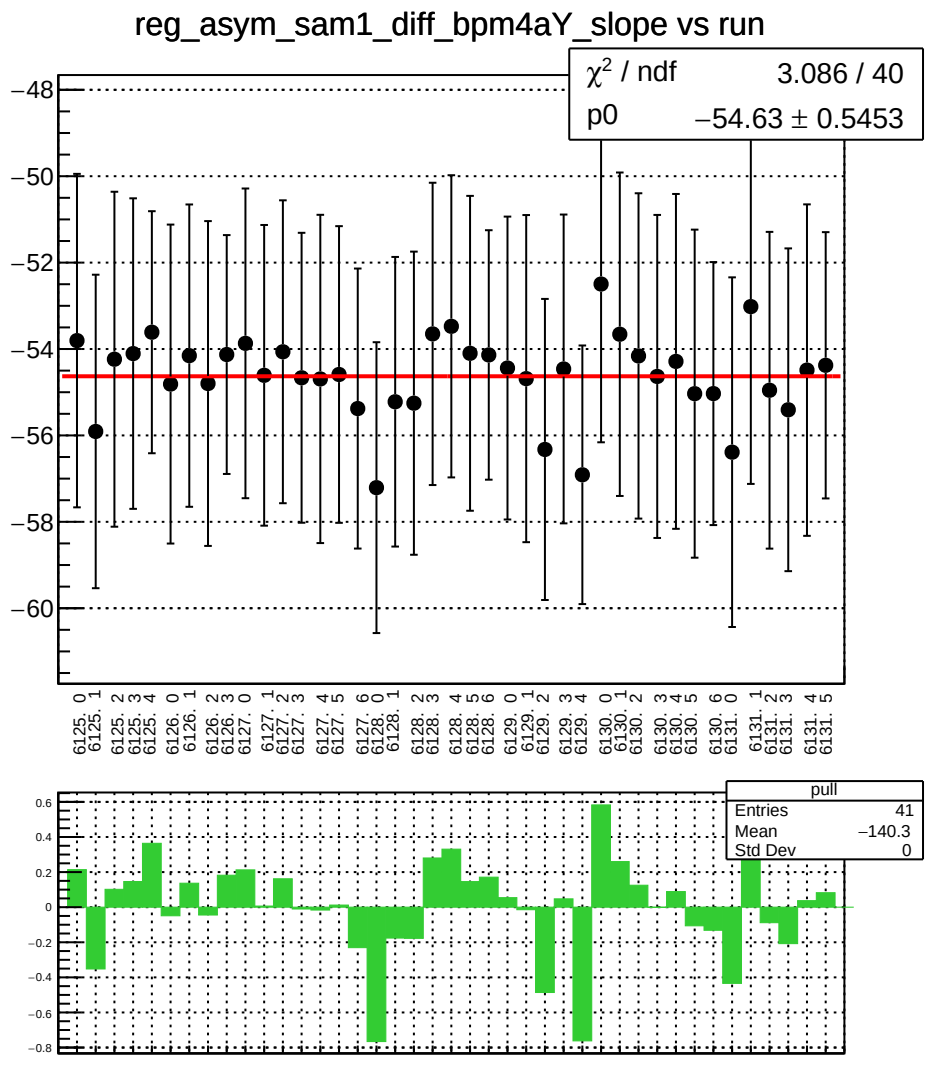

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.86 / 40
p0 2.896e−15 ± 4.237e−14
pull
Entries 41
Mean 113.1
Std Dev 0

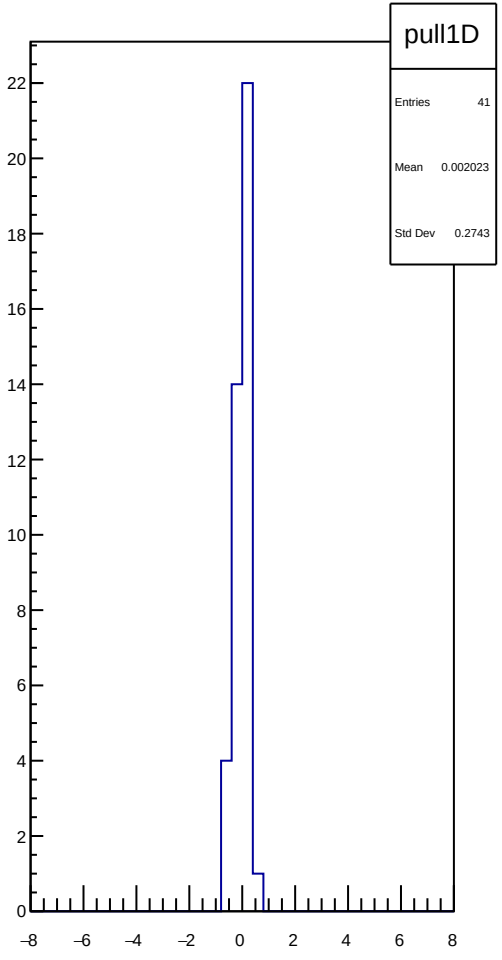

pull1D
Entries 41
Mean −0.004144
Std Dev 0.922

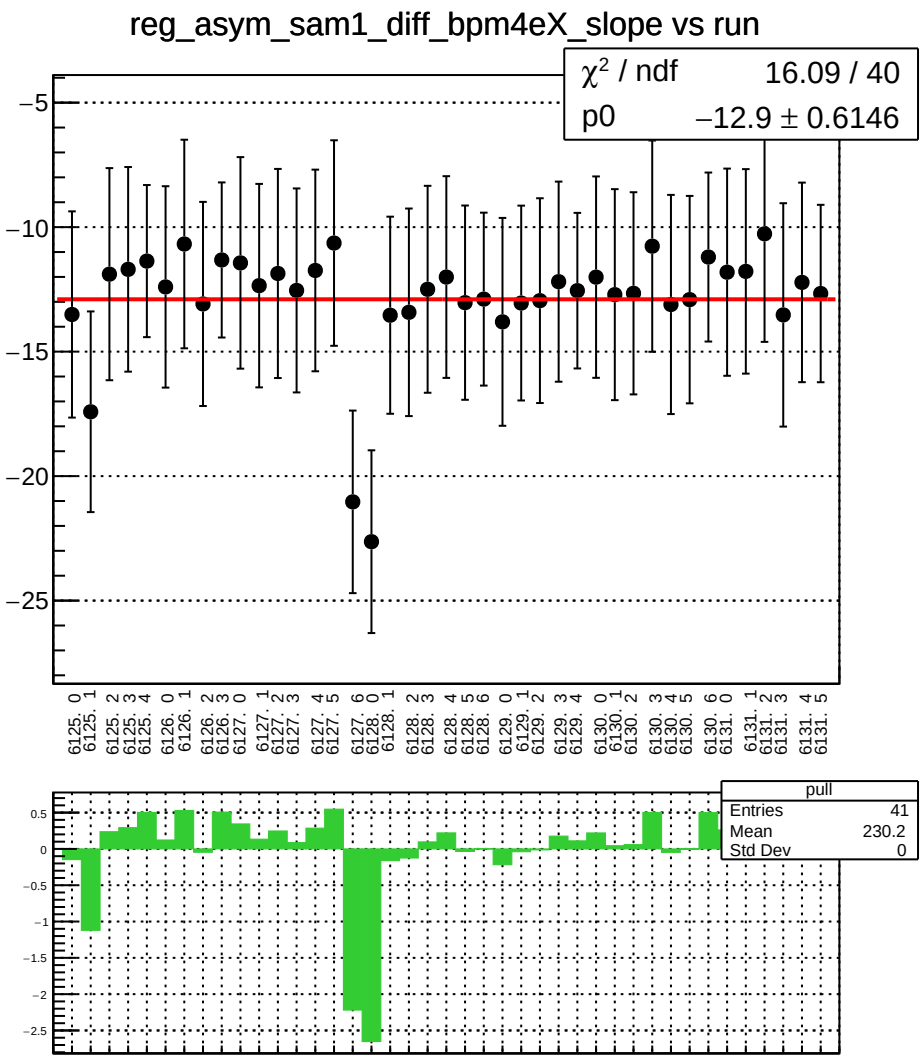

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.173e+05 / 40
p0 2.295e−11 ± 2.996e−14
0.12
0.1
0.08
0.06
0.04
0.02
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

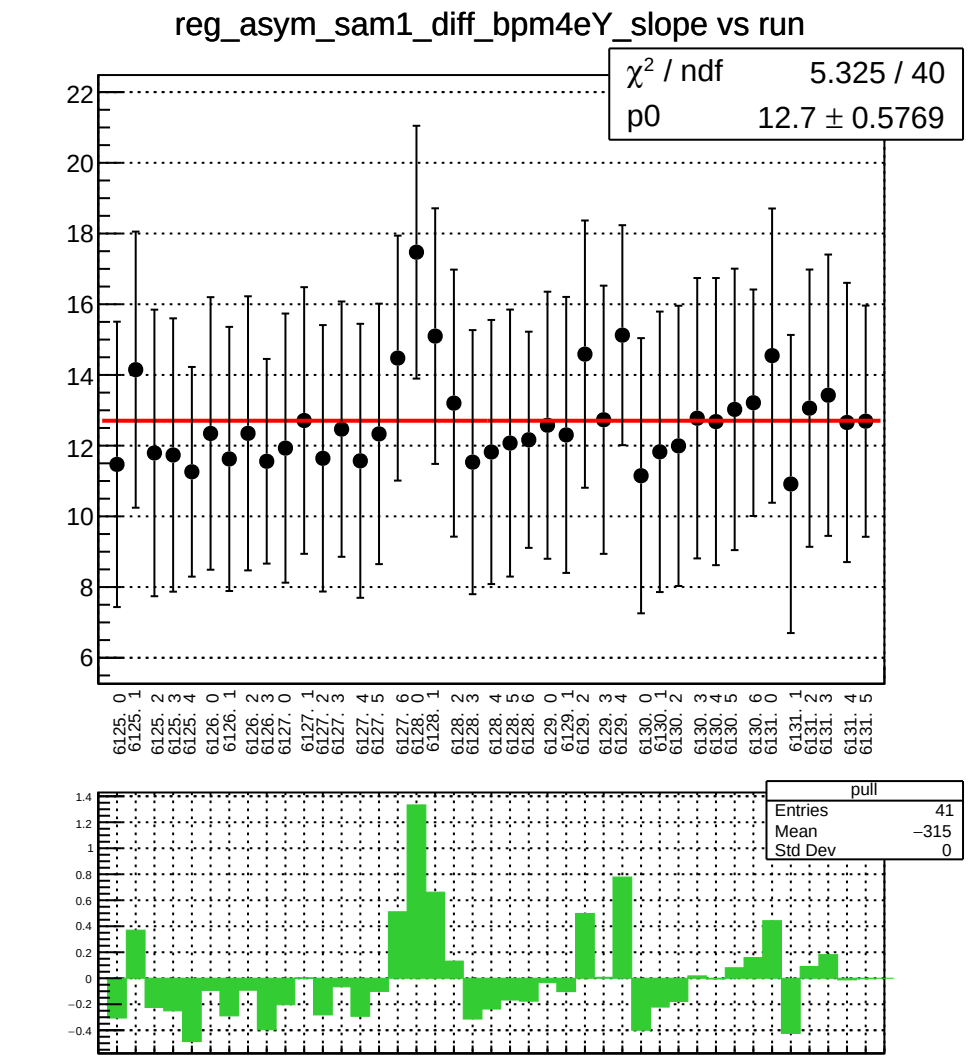

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 16.49 / 40
p0 −1.406 ± 0.5043
pull
Entries 41
Mean 231.6
Std Dev 0

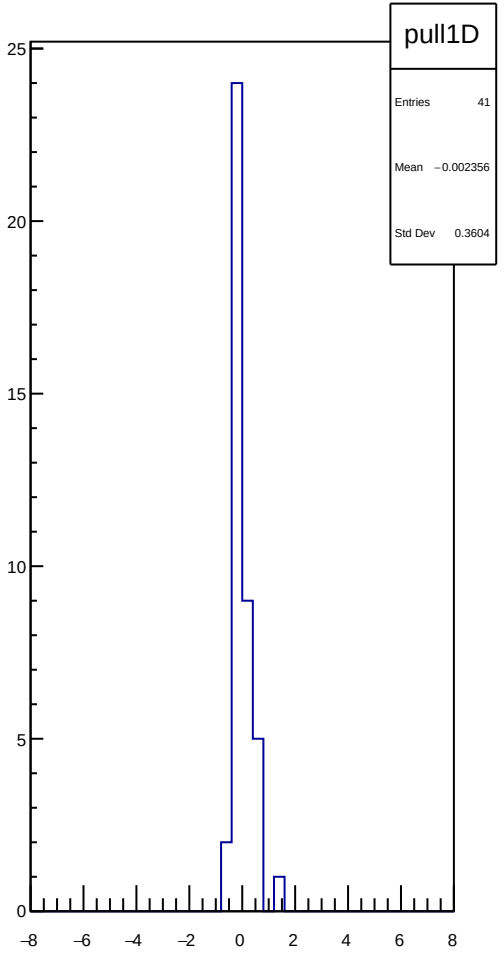

pull1D
Entries 41
Mean −0.004316
Std Dev 0.6341

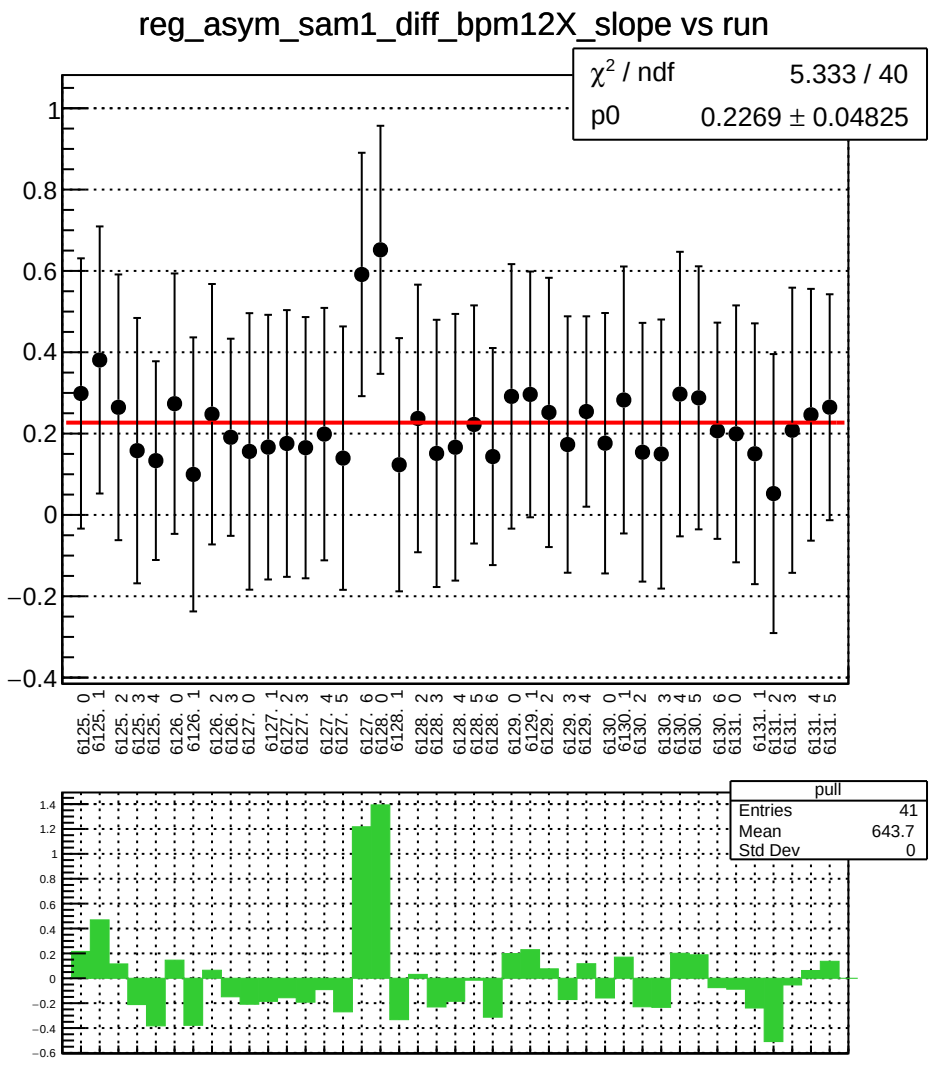

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 3.086 / 40
p0 −54.63 ± 0.5453
pull
Entries 41
Mean −140.3
Std Dev 0

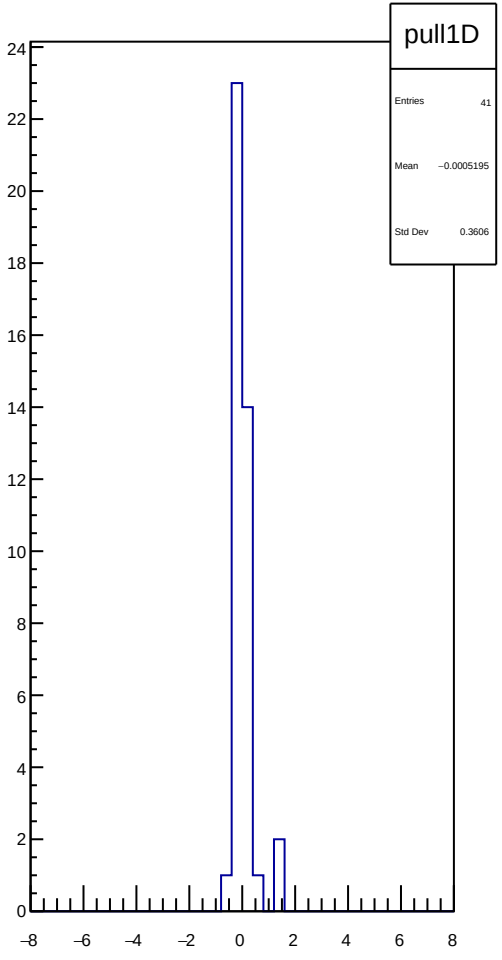

pull1D
Entries 41
Mean 0.002023
Std Dev 0.2743

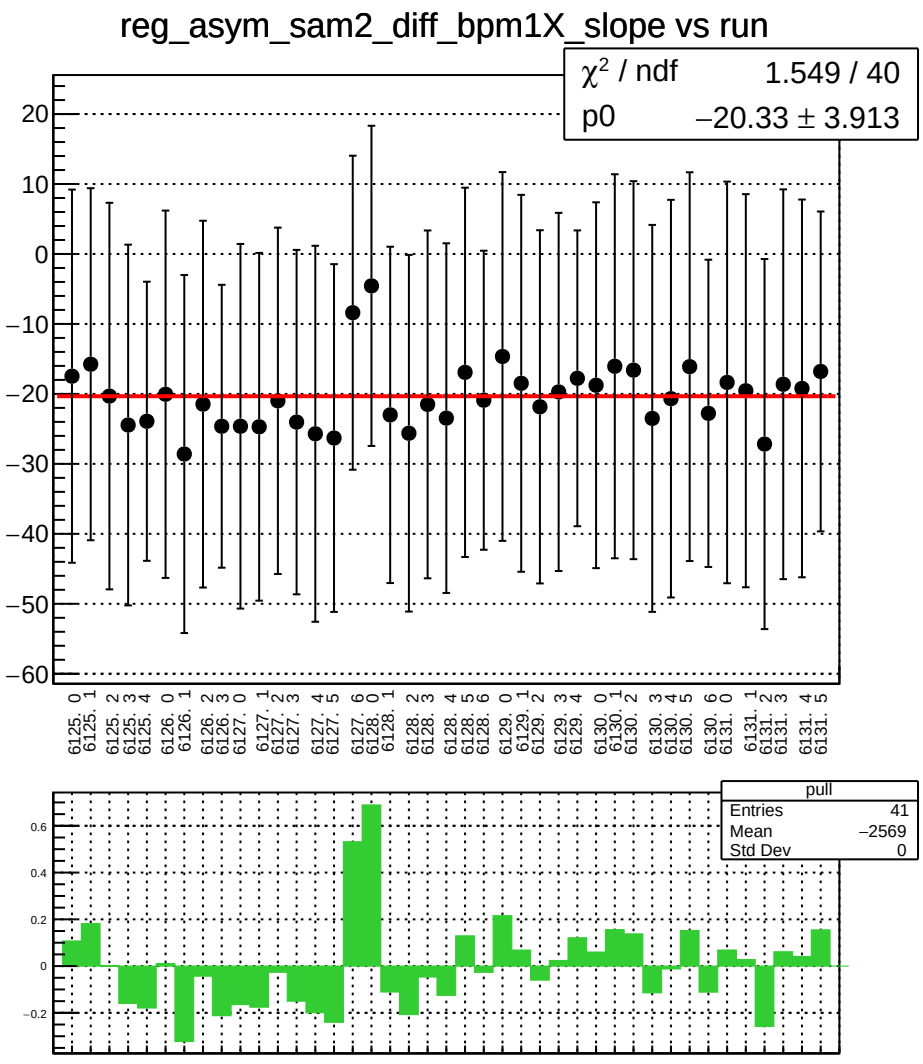

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 16.09 / 40
p0 −12.9 ± 0.6146
−5
−10
−15
−20
−25
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 230.2
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean 0.004352
Std Dev 0.6264
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

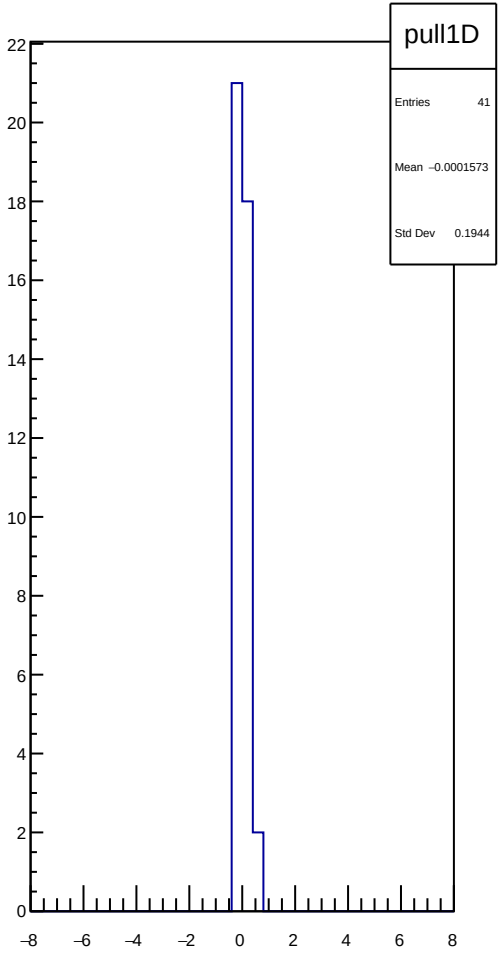

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 5.325 / 40
p0 12.7 ± 0.5769
pull
Entries 41
Mean −315
Std Dev 0

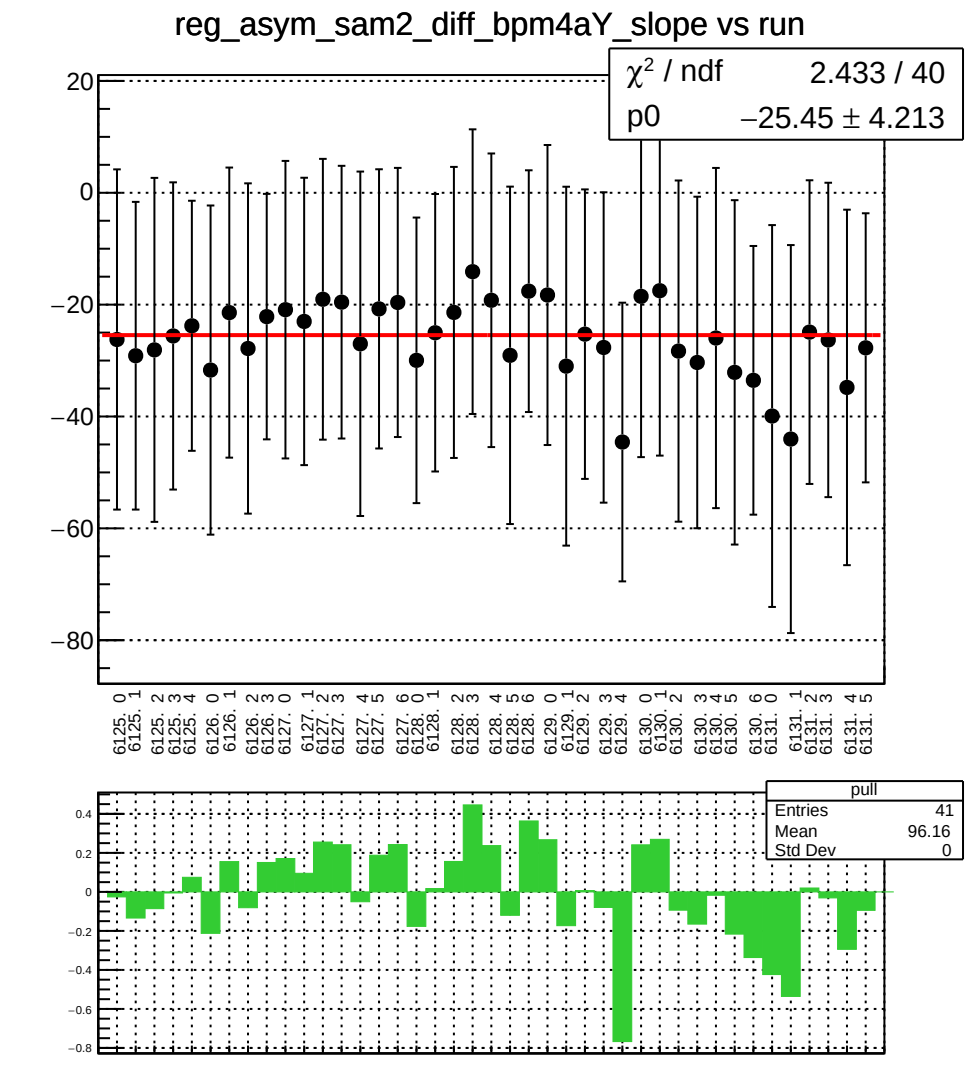

pull1D
Entries 41
Mean −0.002356
Std Dev 0.3604

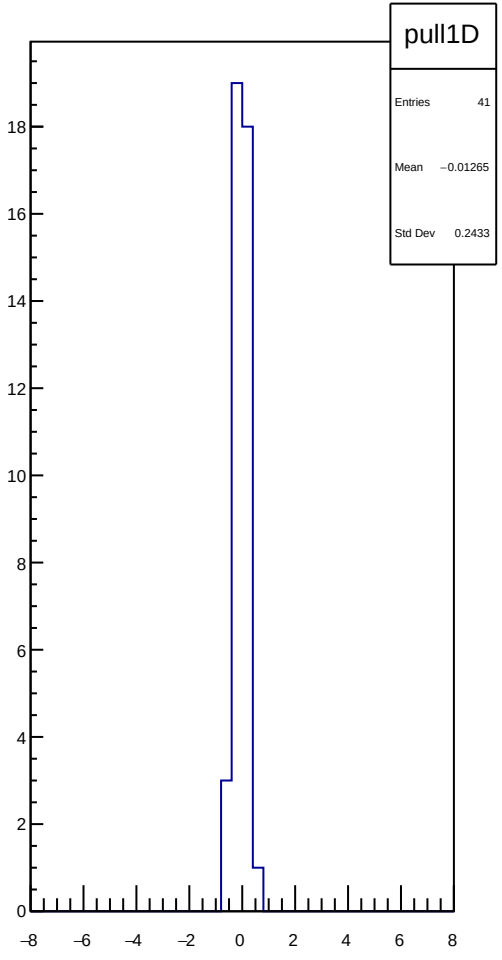

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 5.333 / 40
p0 0.2269 ± 0.04825
pull
Entries 41
Mean 643.7
Std Dev 0

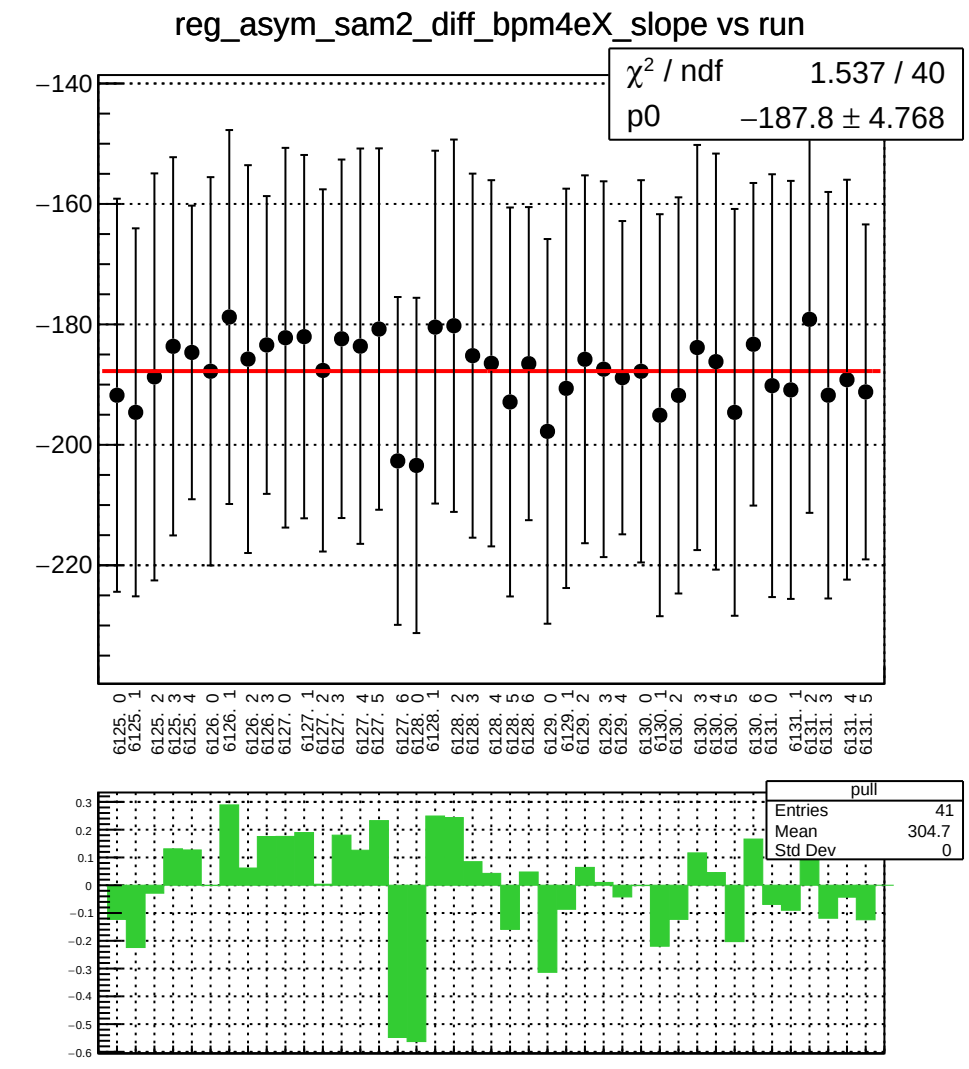

pull1D
Entries 41
Mean −0.0005195
Std Dev 0.3606

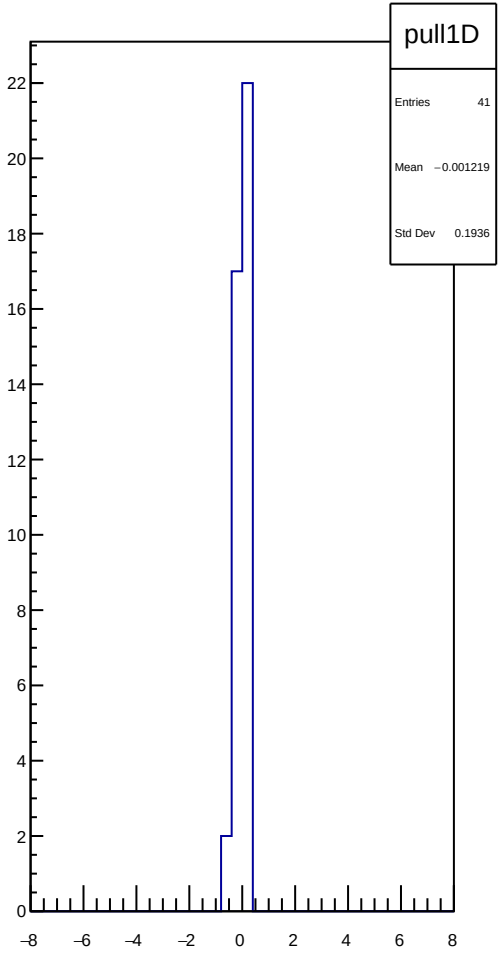

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 1.549 / 40
p0 −20.33 ± 3.913
pull
Entries 41
Mean −2569
Std Dev 0

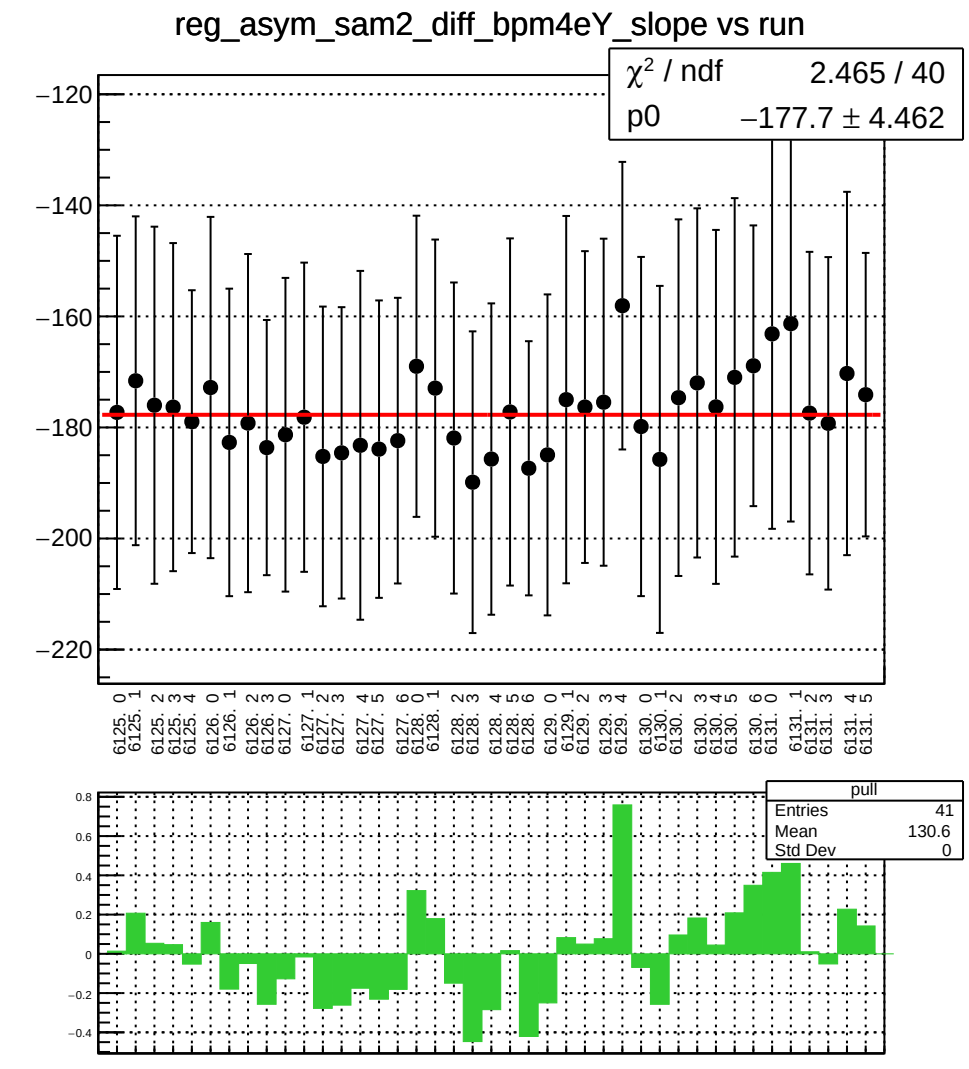

pull1D
Entries 41
Mean −0.0001573
Std Dev 0.1944

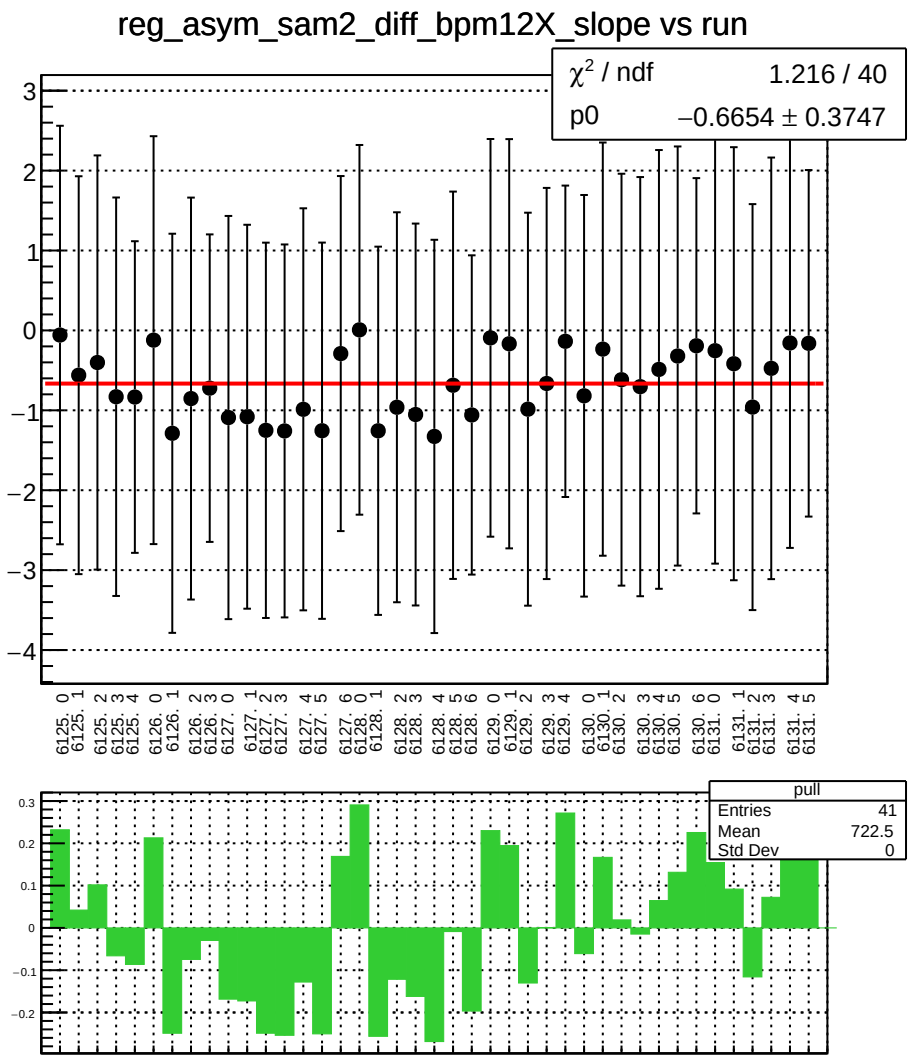

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 2.433 / 40
p0 −25.45 ± 4.213
pull
Entries 41
Mean 96.16
Std Dev 0

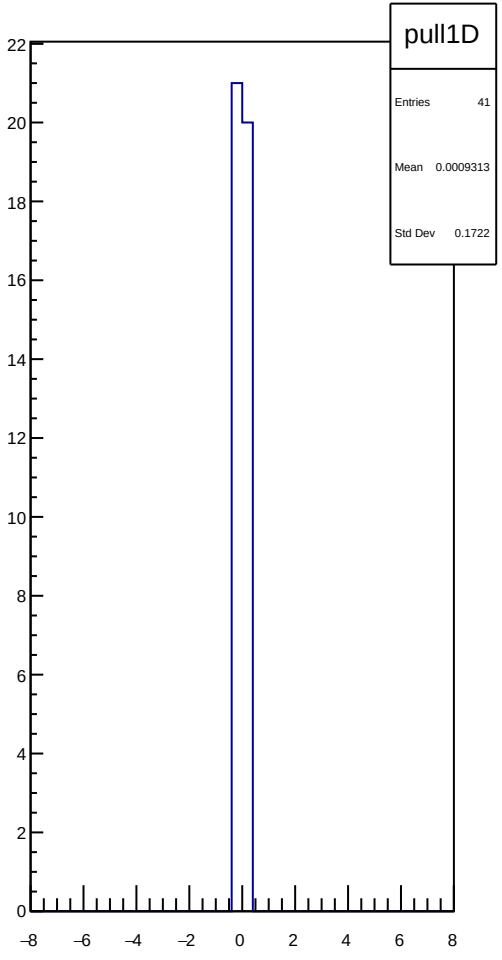

pull1D
Entries 41
Mean −0.01265
Std Dev 0.2433

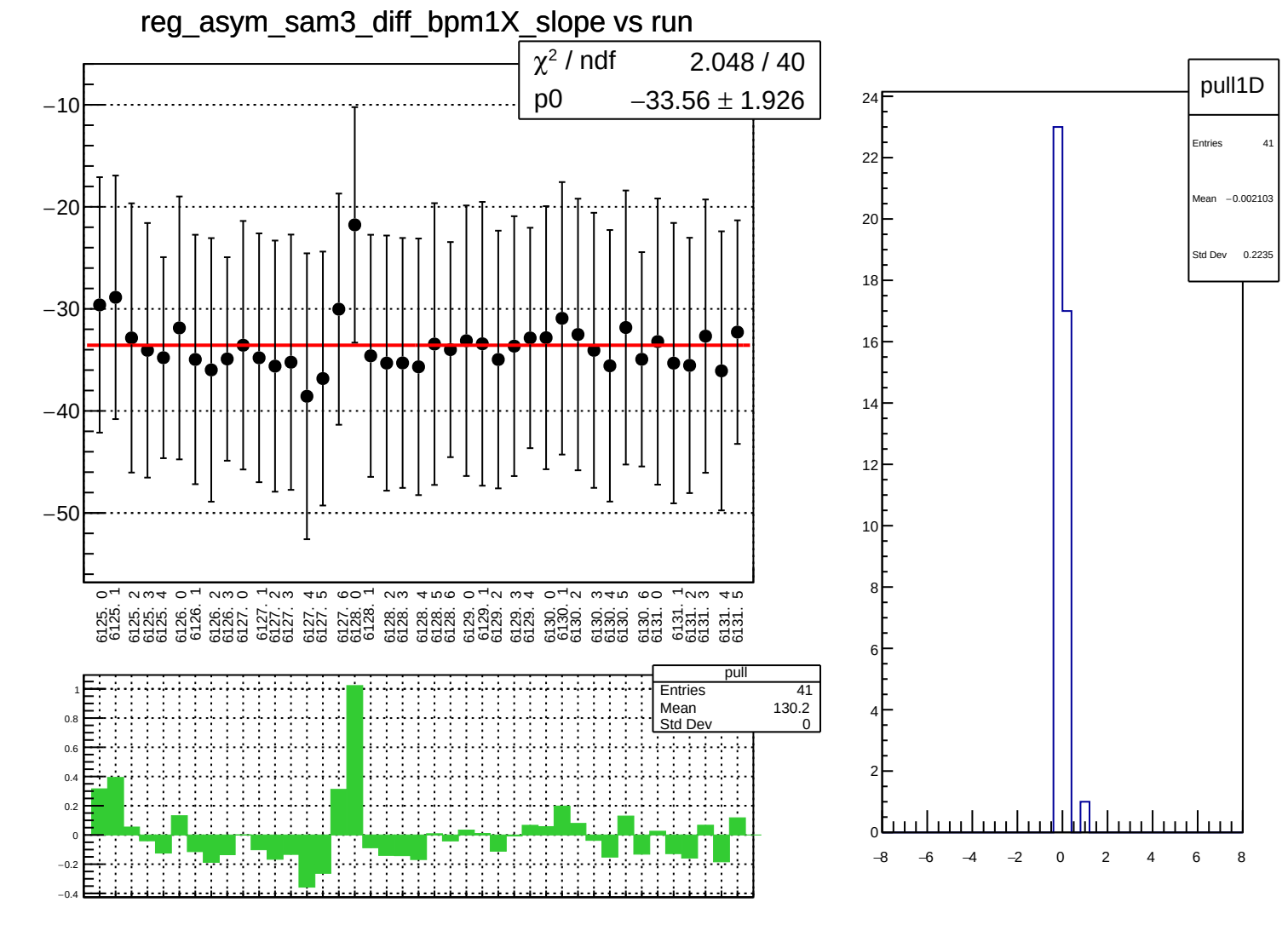

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 1.537 / 40
p0 −187.8 ± 4.768
−140
−160
−180
−200
−220
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 304.7
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6

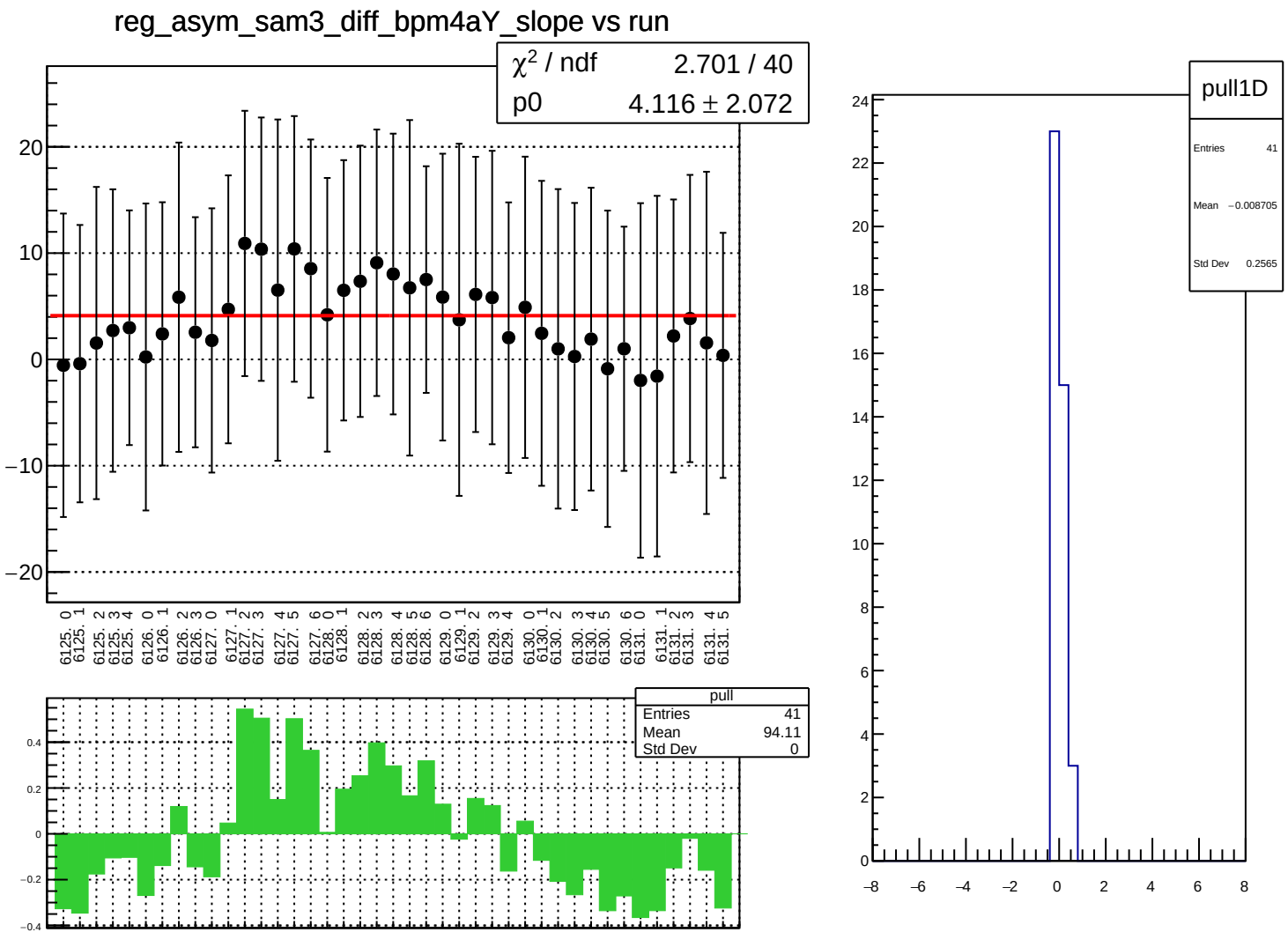

pull1D
Entries 41
Mean −0.001219
Std Dev 0.1936
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

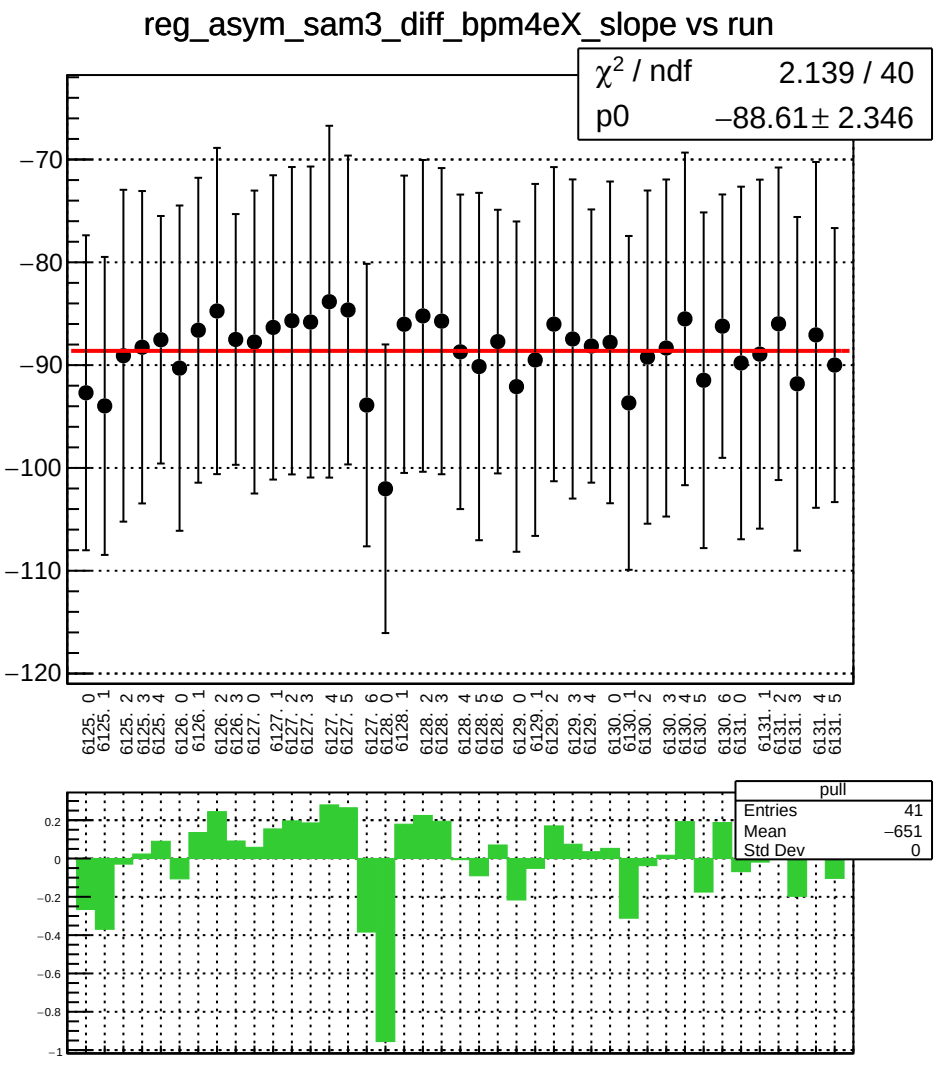

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 2.465 / 40
p0 −177.7 ± 4.462
−120
−140
−160
−180
−200
−220
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 130.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 41
Mean 0.008931
Std Dev 0.2451
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

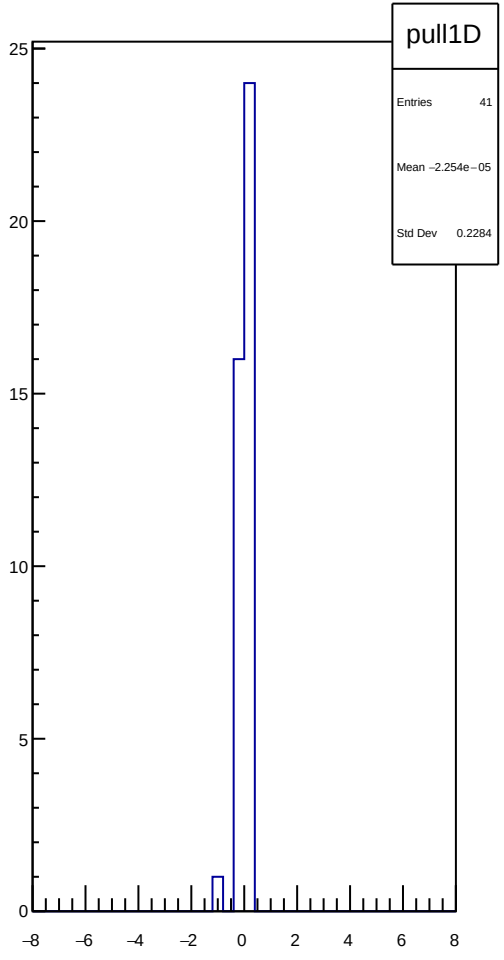

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 1.216 / 40
p0 −0.6654 ± 0.3747
pull
Entries 41
Mean 722.5
Std Dev 0

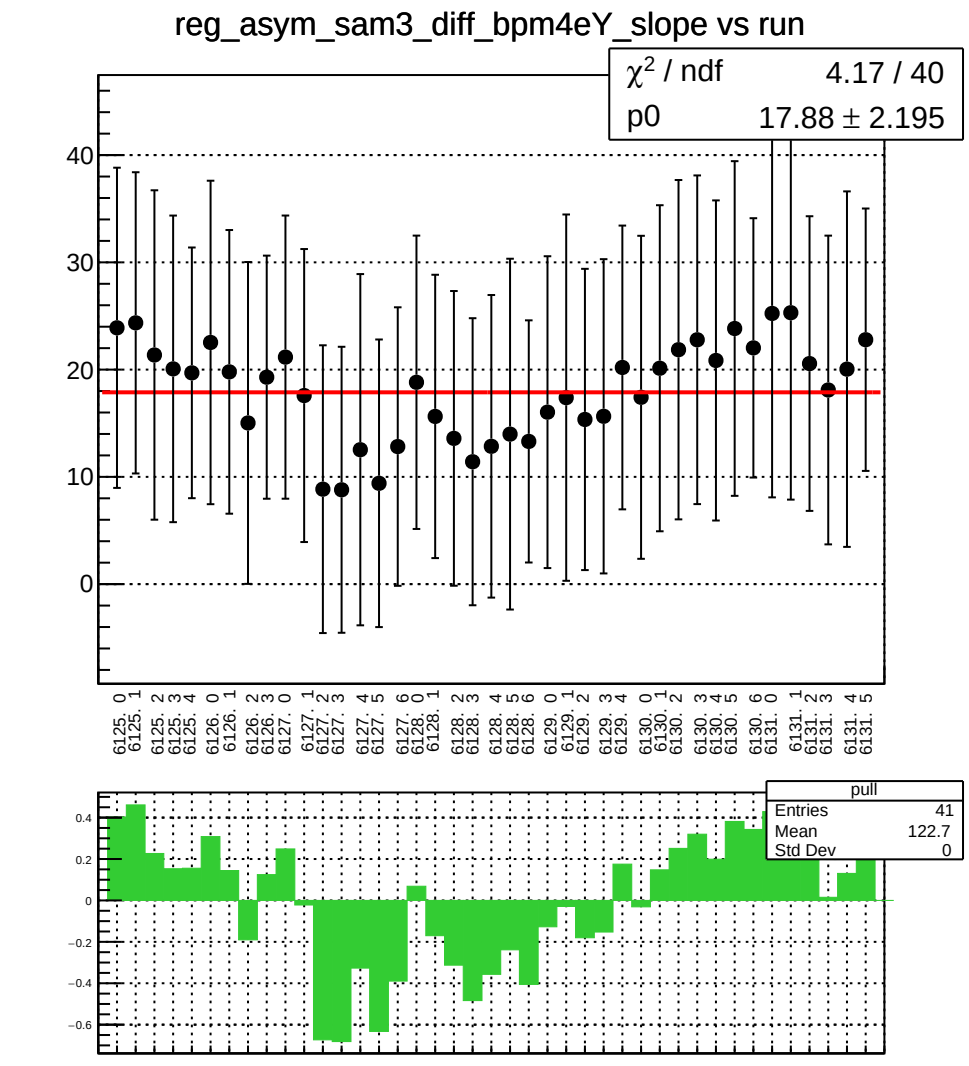

pull1D
Entries 41
Mean 0.0009313
Std Dev 0.1722

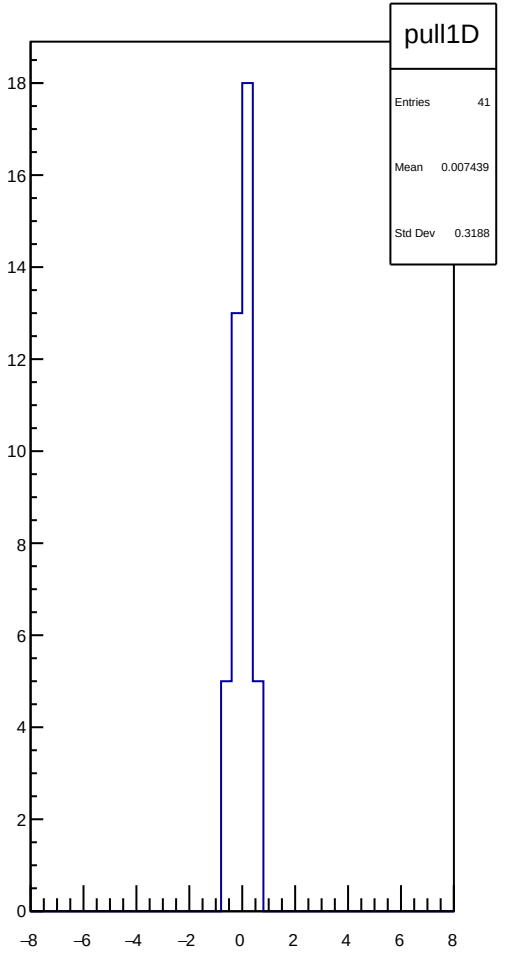

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 2.048 / 40
p0 −33.56 ± 1.926
pull
Entries 41
Mean 130.2
Std Dev 0
pull1D
Entries 41
Mean −0.002103
Std Dev 0.2235

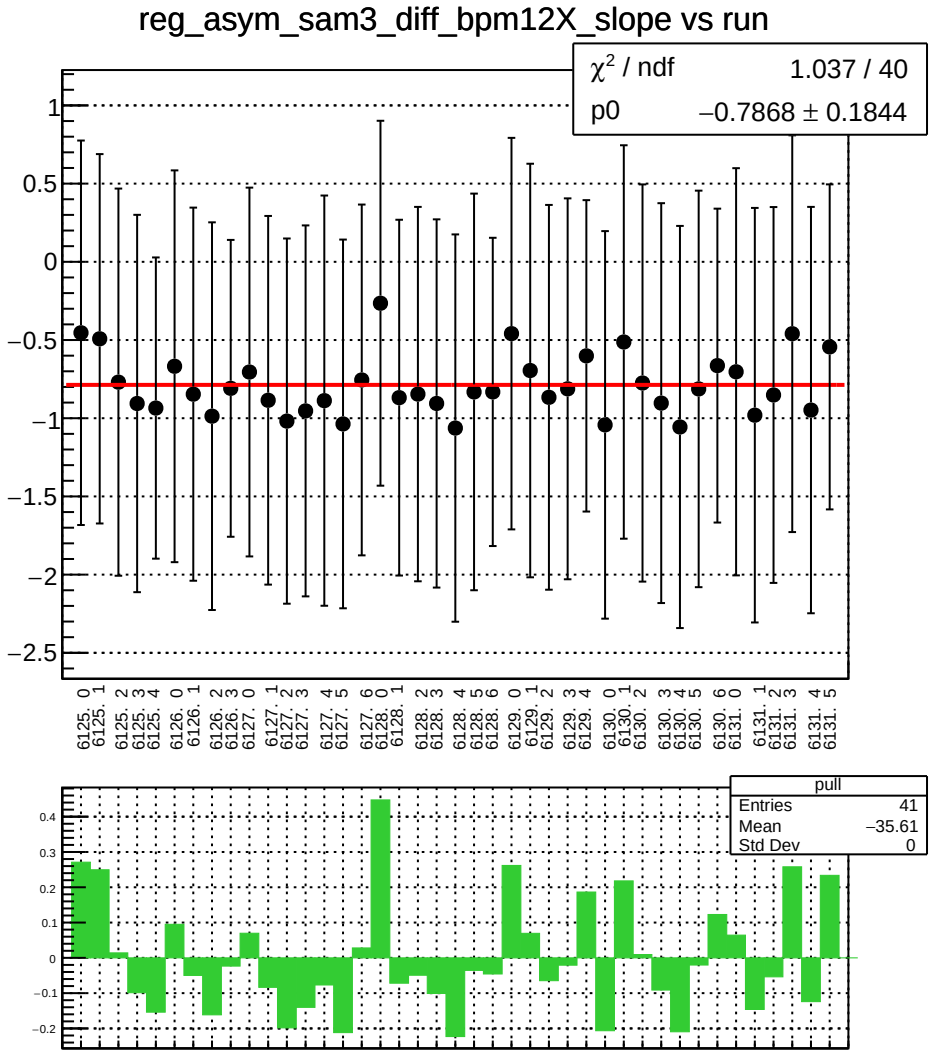

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 2.701 / 40
p0 4.116 ± 2.072
20
10
0
−10
−20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 94.11
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 41
Mean −0.008705
Std Dev 0.2565
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

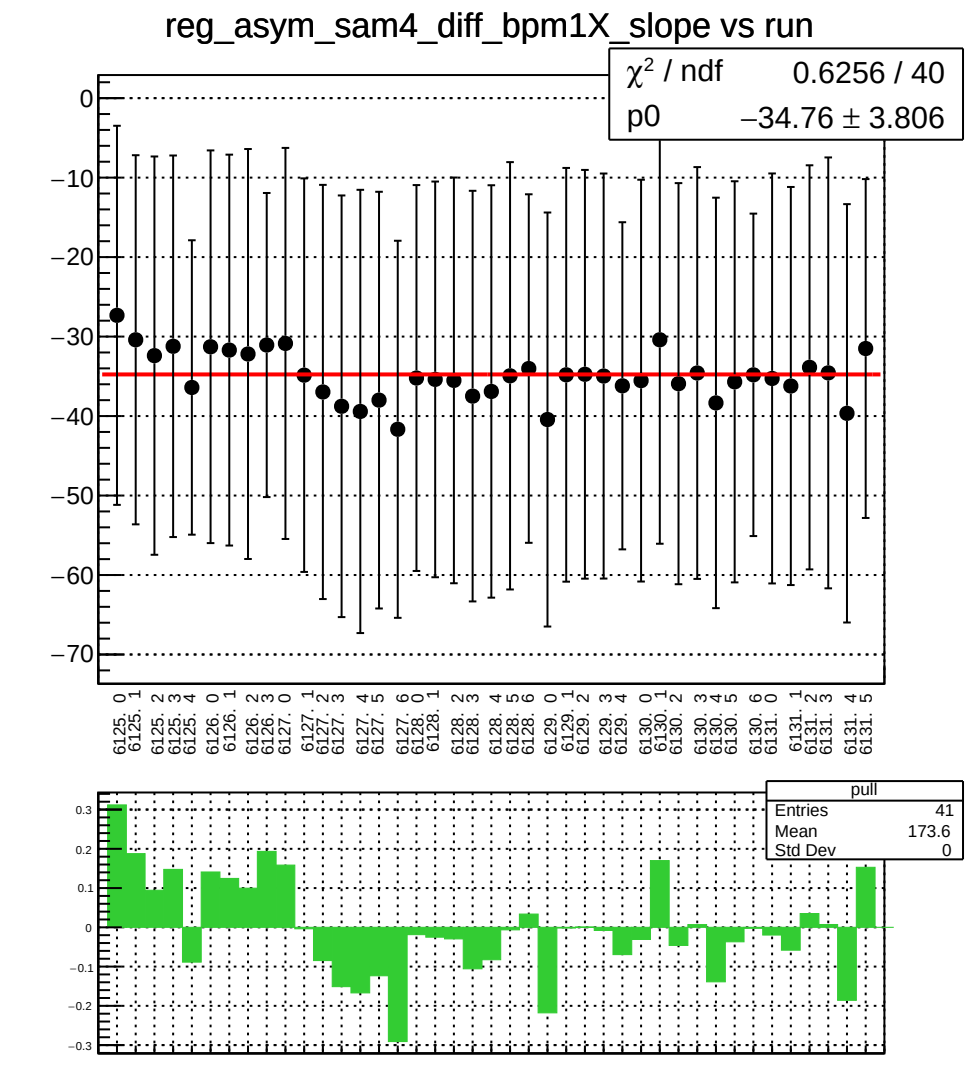

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 2.139 / 40
p0 −88.61 ± 2.346
−70
−80
−90
−100
−110
−120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −651
Std Dev 0
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

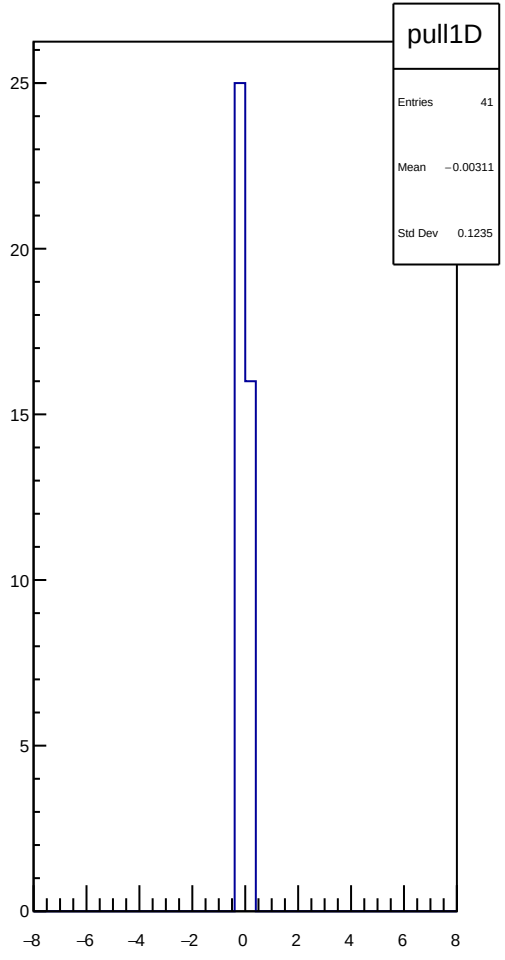

pull1D
Entries 41
Mean −2.254e−05
Std Dev 0.2284
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

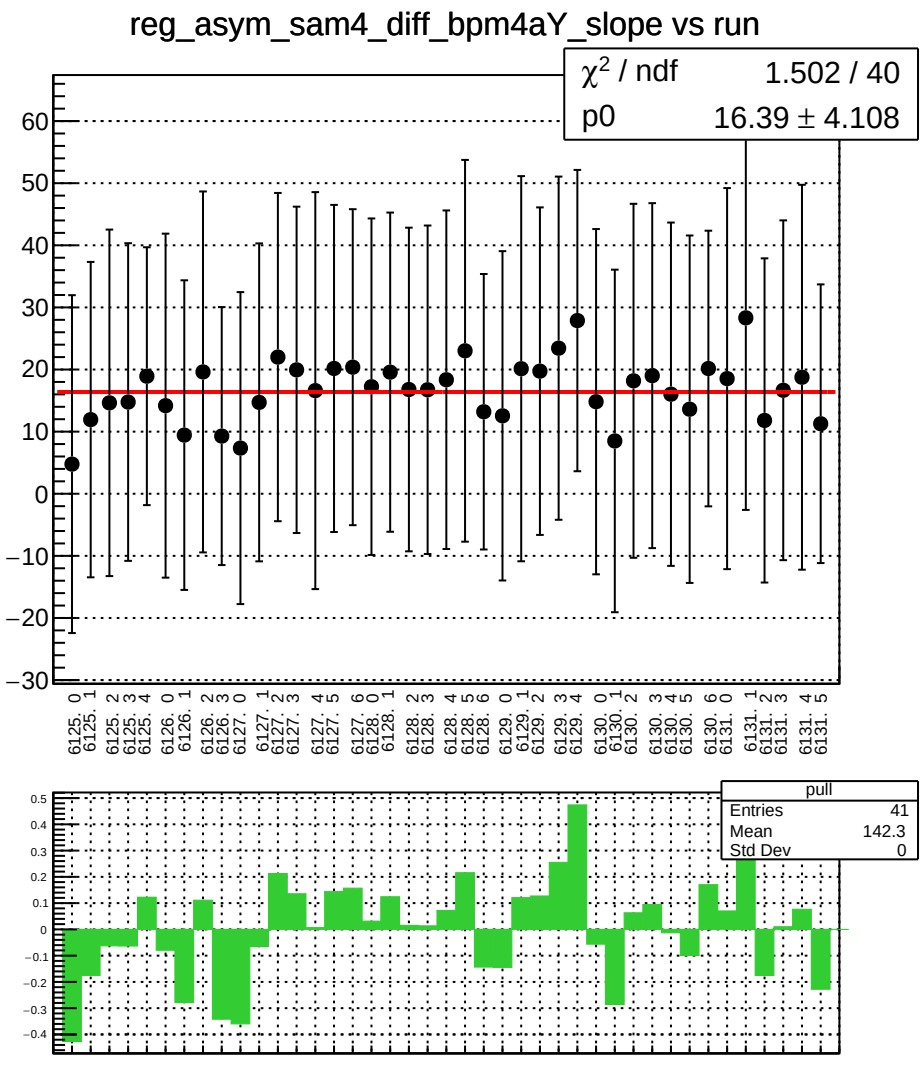

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 4.17 / 40
p0 17.88 ± 2.195
40
30
20
10
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 122.7
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

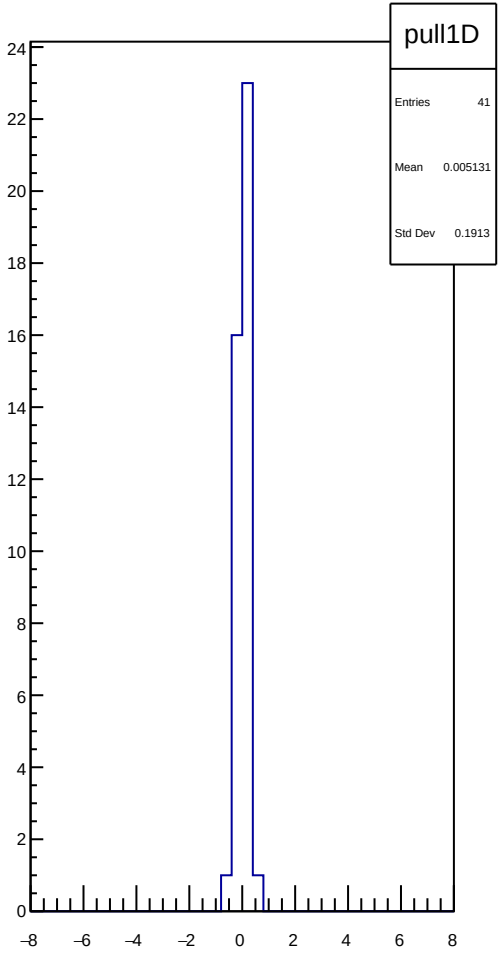

pull1D
Entries 41
Mean 0.007439
Std Dev 0.3188
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

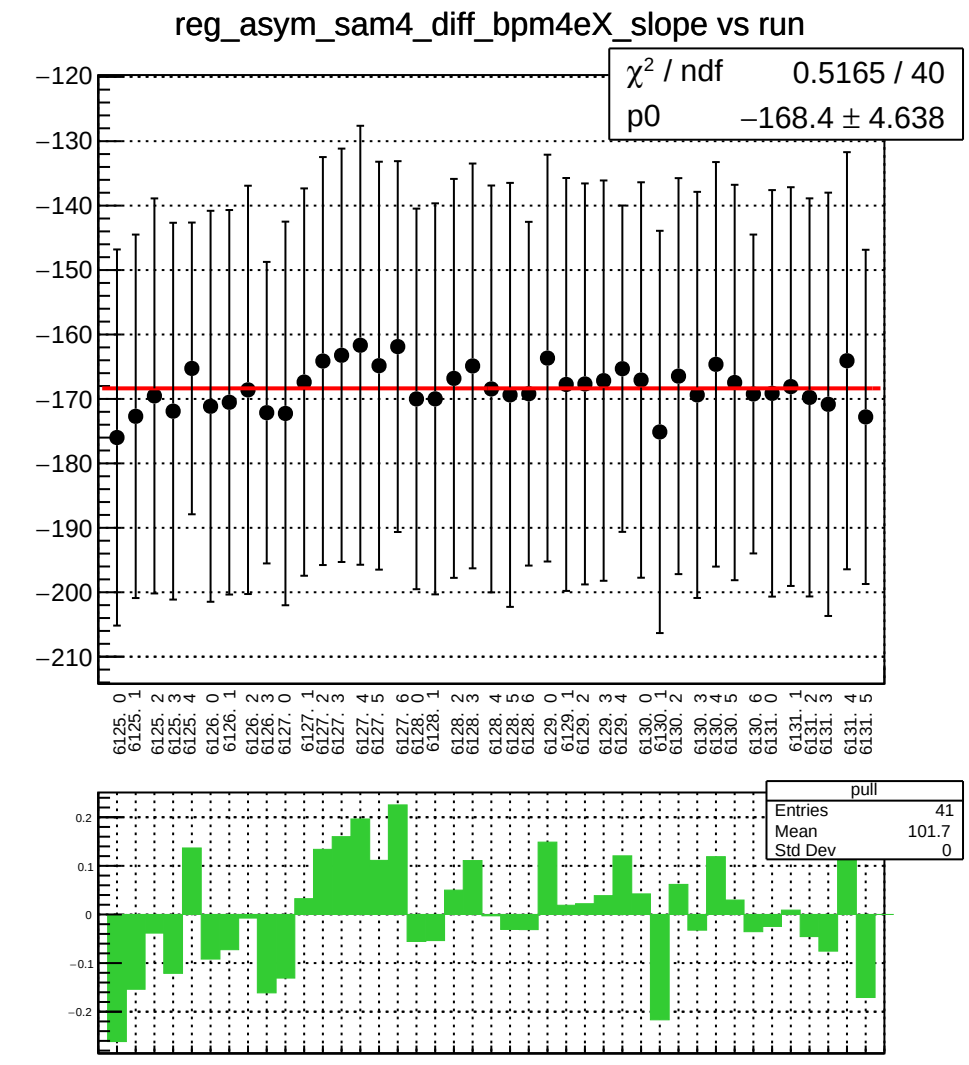

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 1.037 / 40
p0 −0.7868 ± 0.1844
pull
Entries 41
Mean −35.61
Std Dev 0
pull1D
Entries 41
Mean −0.001502
Std Dev 0.159

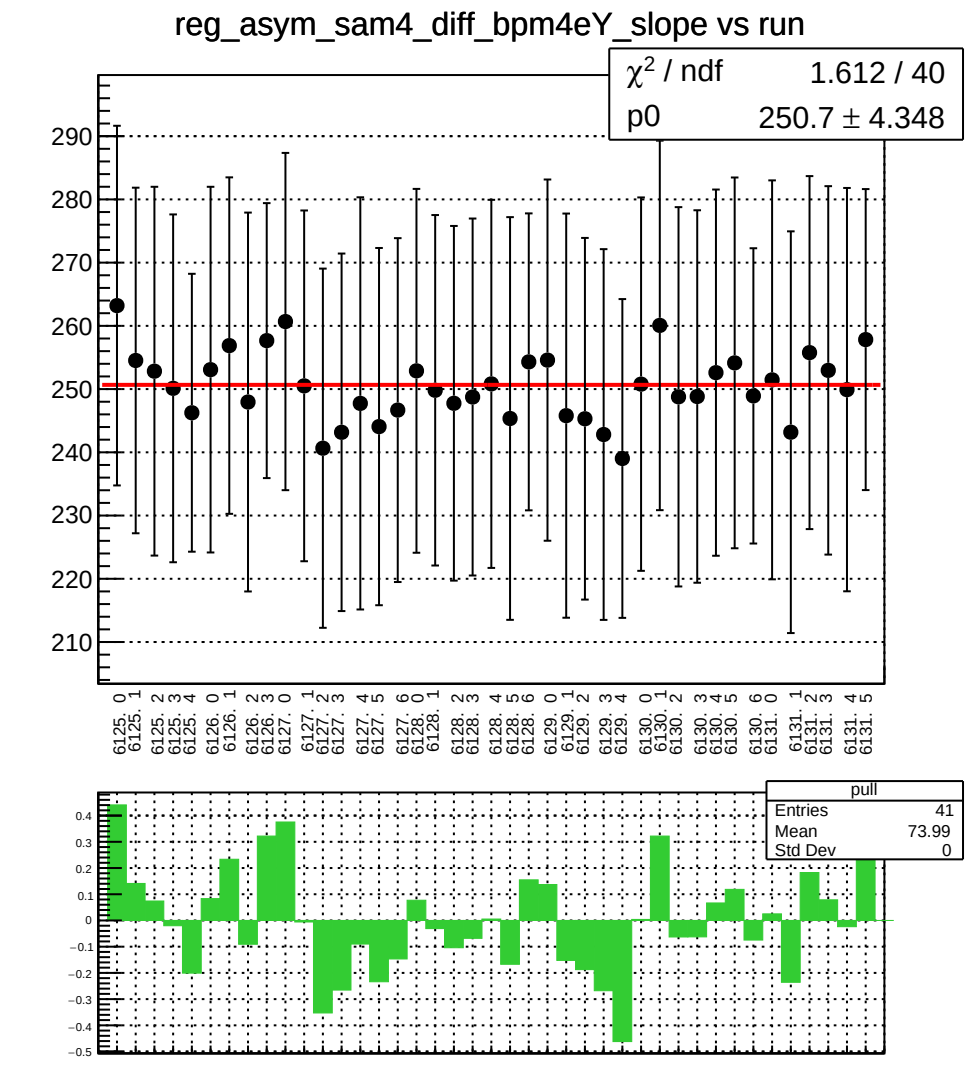

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 0.6256 / 40
p0 −34.76 ± 3.806
pull
Entries 41
Mean 173.6
Std Dev 0

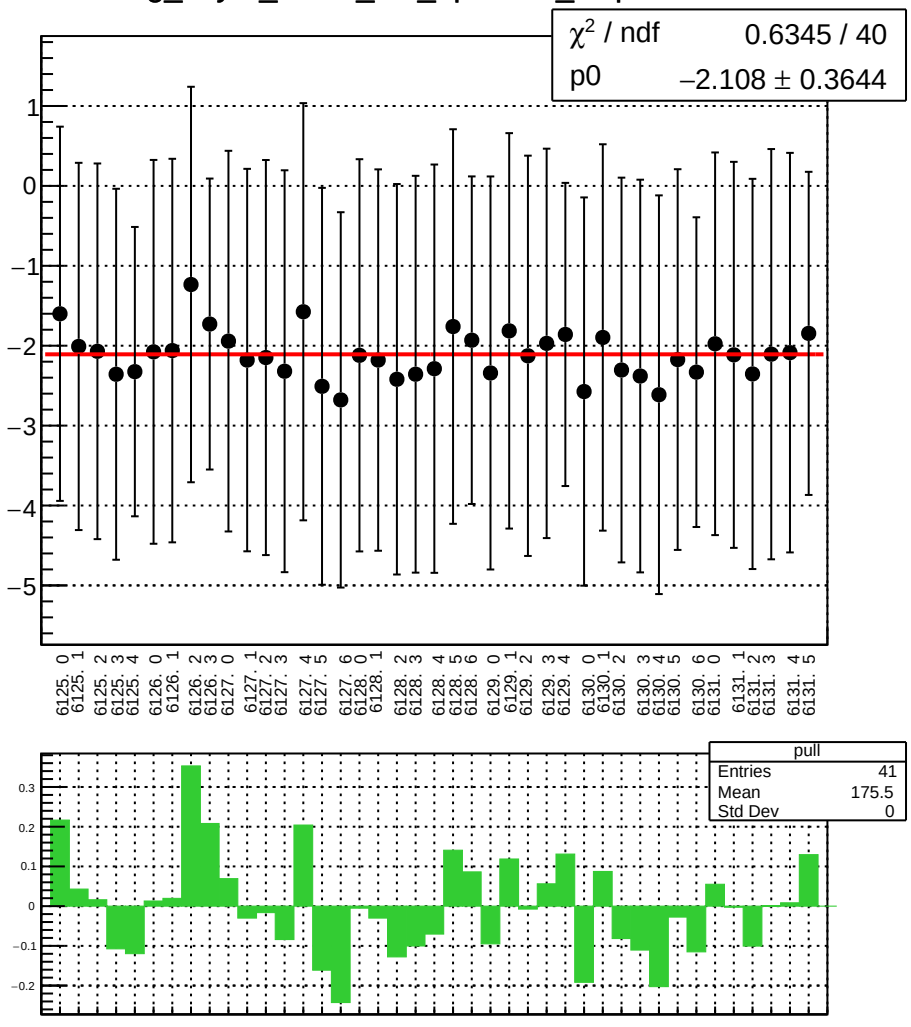

pull1D
Entries 41
Mean −0.00311
Std Dev 0.1235

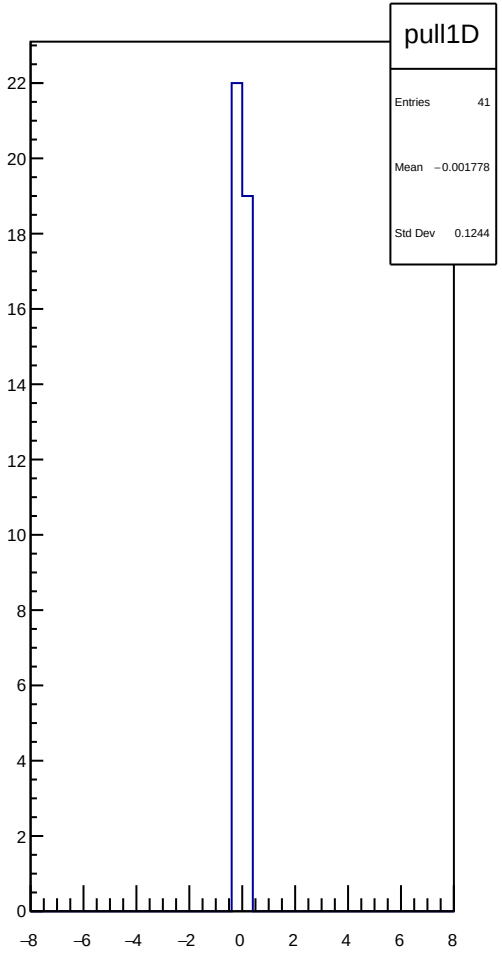

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 1.502 / 40
p0 16.39 ± 4.108
pull
Entries 41
Mean 142.3
Std Dev 0

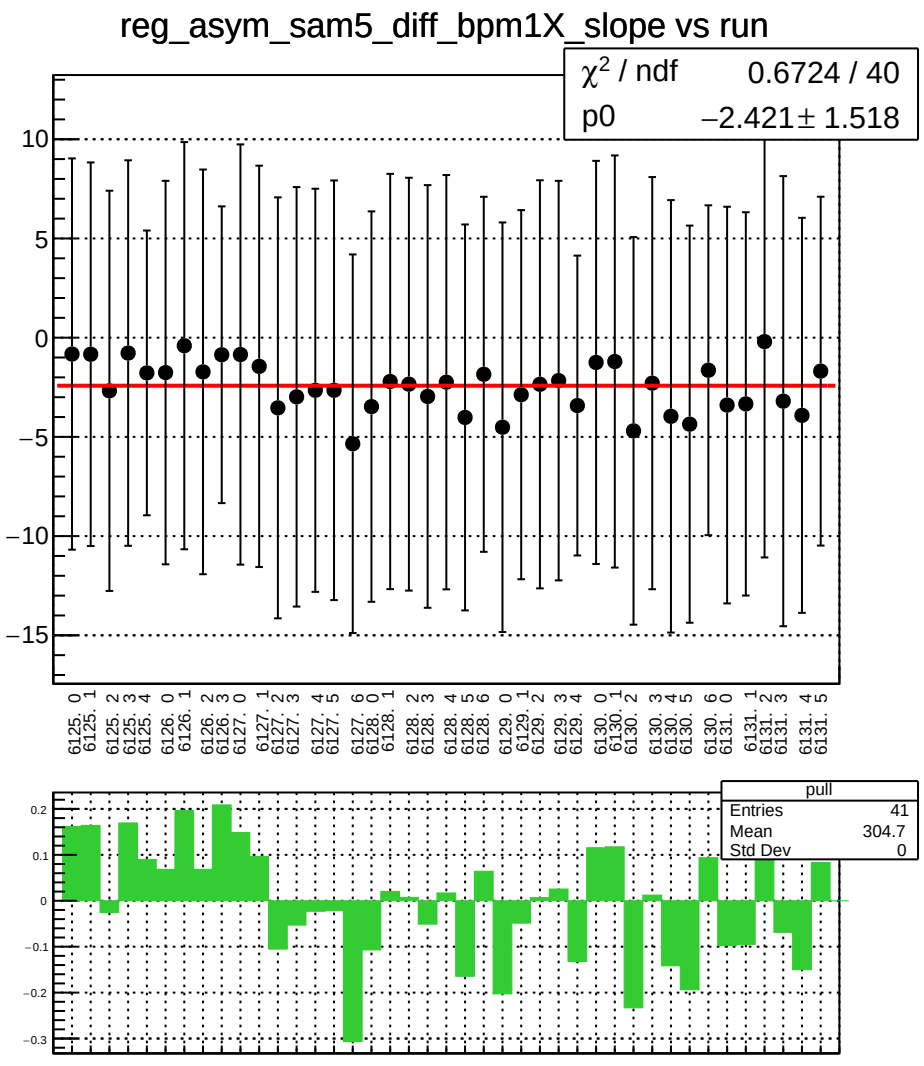

pull1D
Entries 41
Mean 0.005131
Std Dev 0.1913

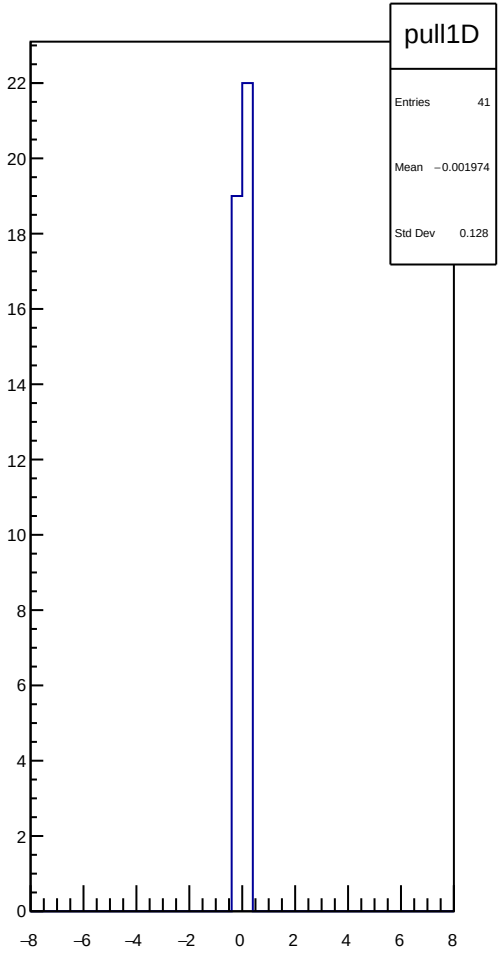

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 0.5165 / 40
p0 −168.4 ± 4.638
pull
Entries 41
Mean 101.7
Std Dev 0
pull1D
Entries 41
Mean 0.00213
Std Dev 0.1122

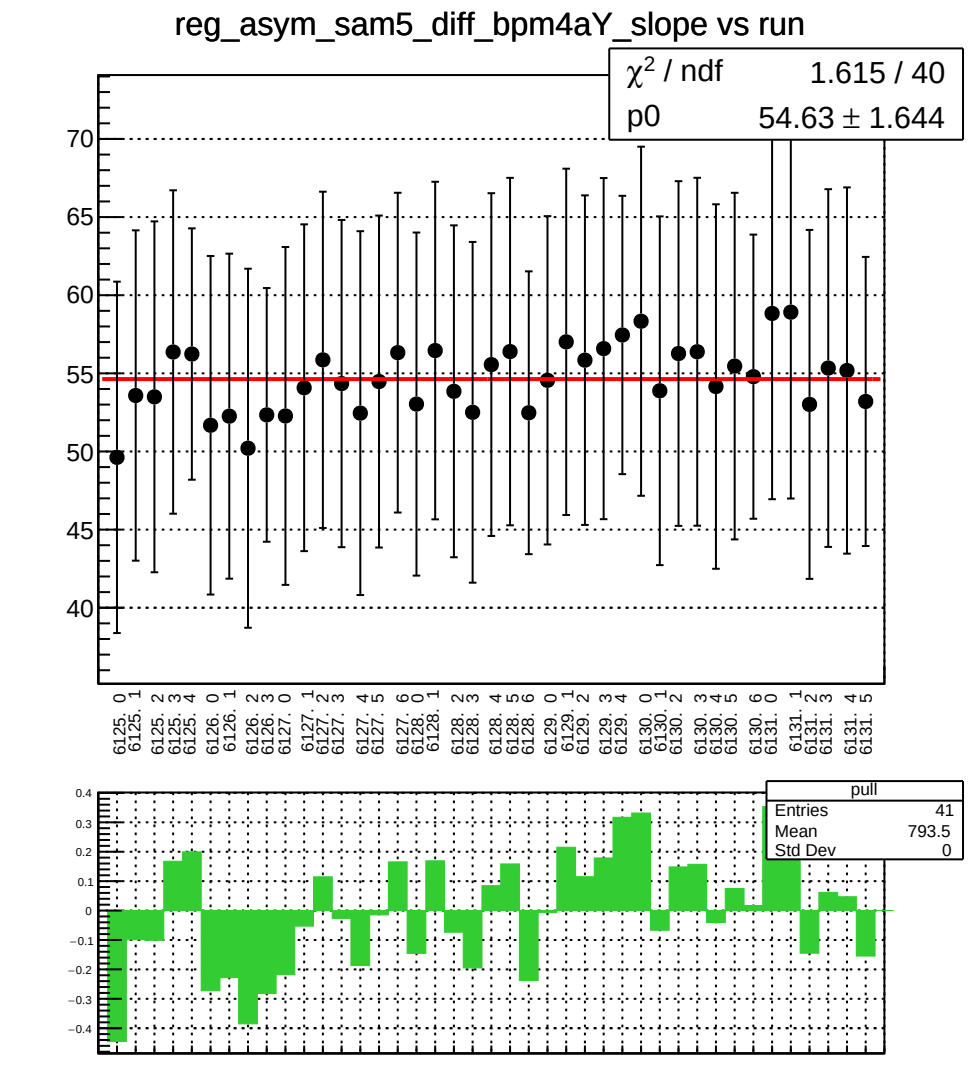

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 1.612 / 40
p0 250.7 ± 4.348
290
280
270
260
250
240
230
220
210
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 73.99
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 41
Mean −0.003949
Std Dev 0.1983
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

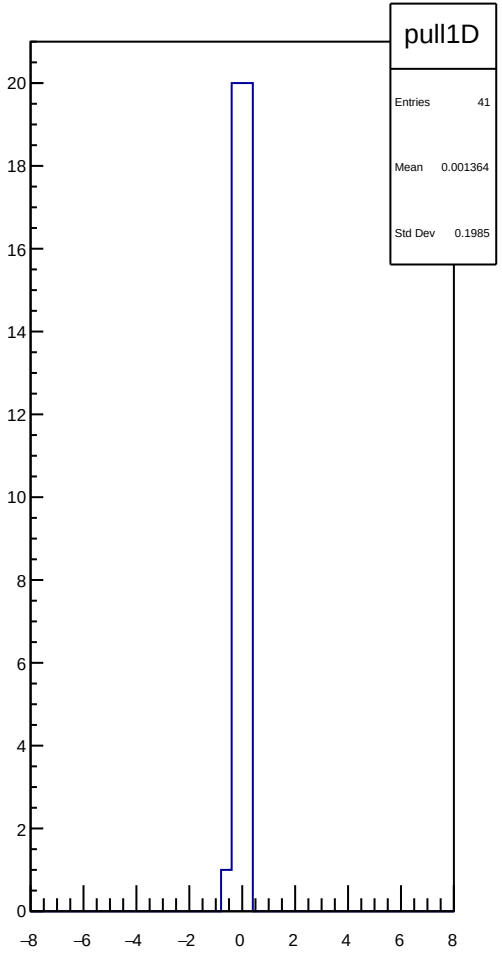

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 0.6345 / 40
p0 −2.108 ± 0.3644
pull
Entries 41
Mean 175.5
Std Dev 0

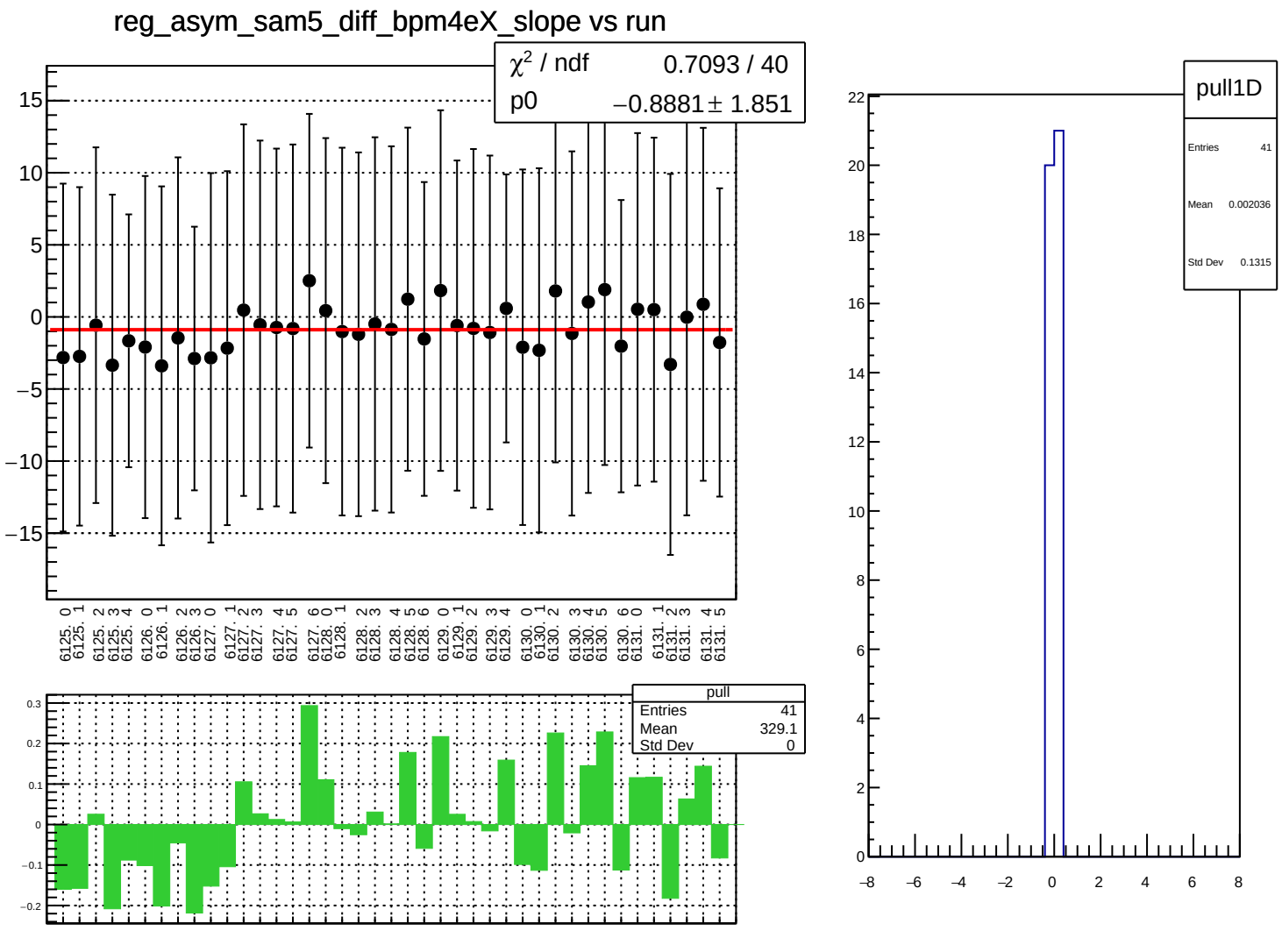

pull1D
Entries 41
Mean −0.001778
Std Dev 0.1244

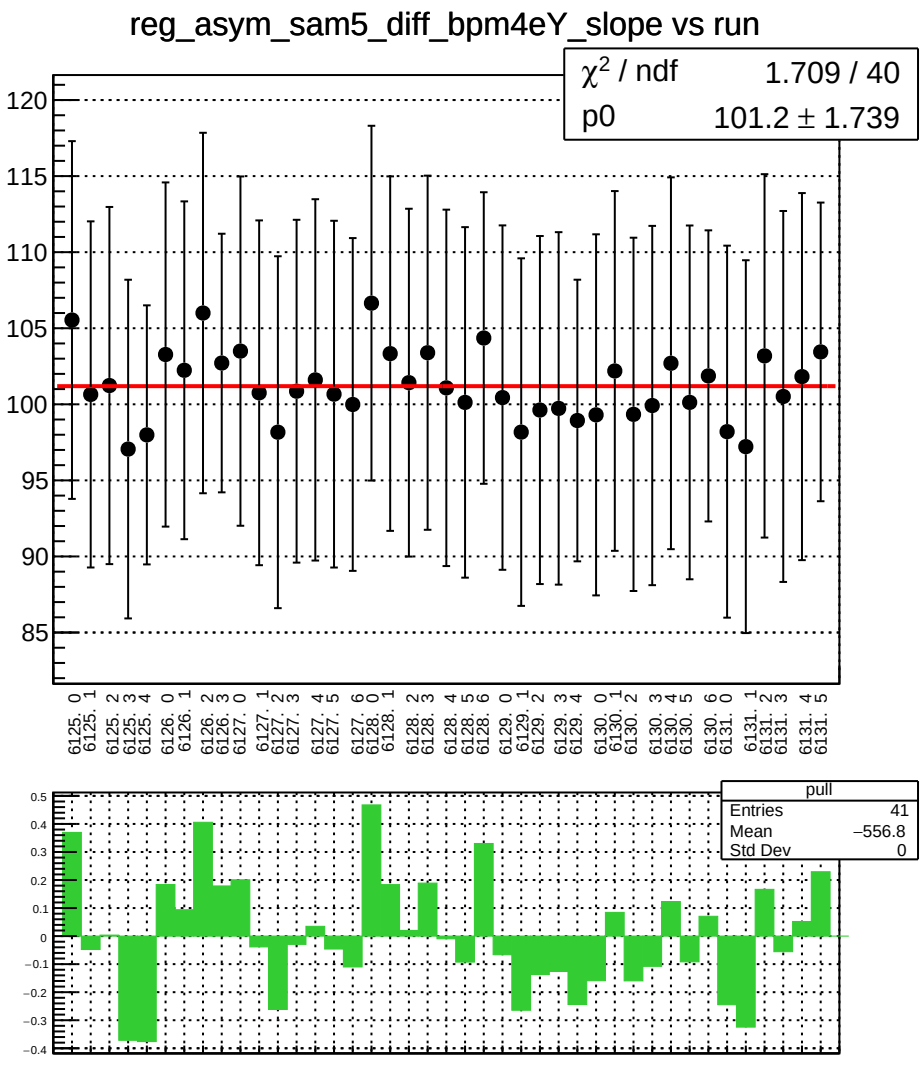

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 0.6724 / 40
p0 −2.421± 1.518
pull
Entries 41
Mean 304.7
Std Dev 0

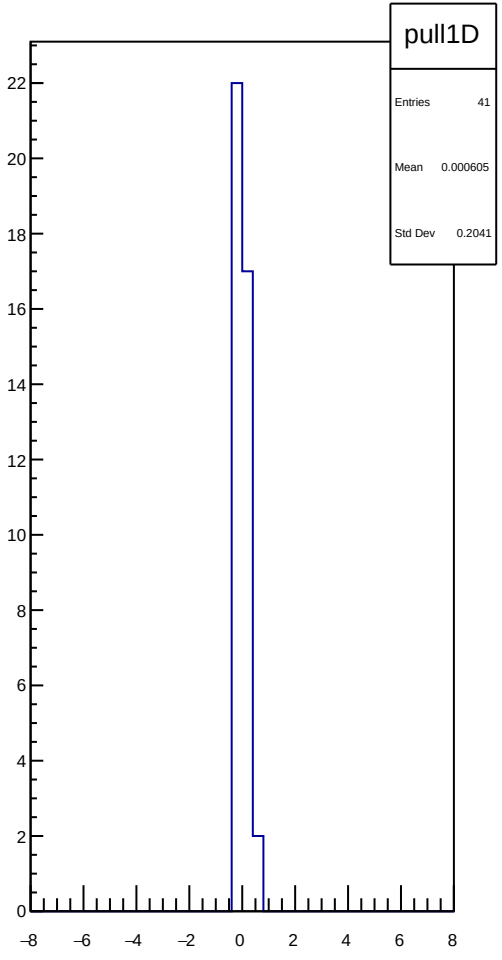

pull1D
Entries 41
Mean −0.001974
Std Dev 0.128

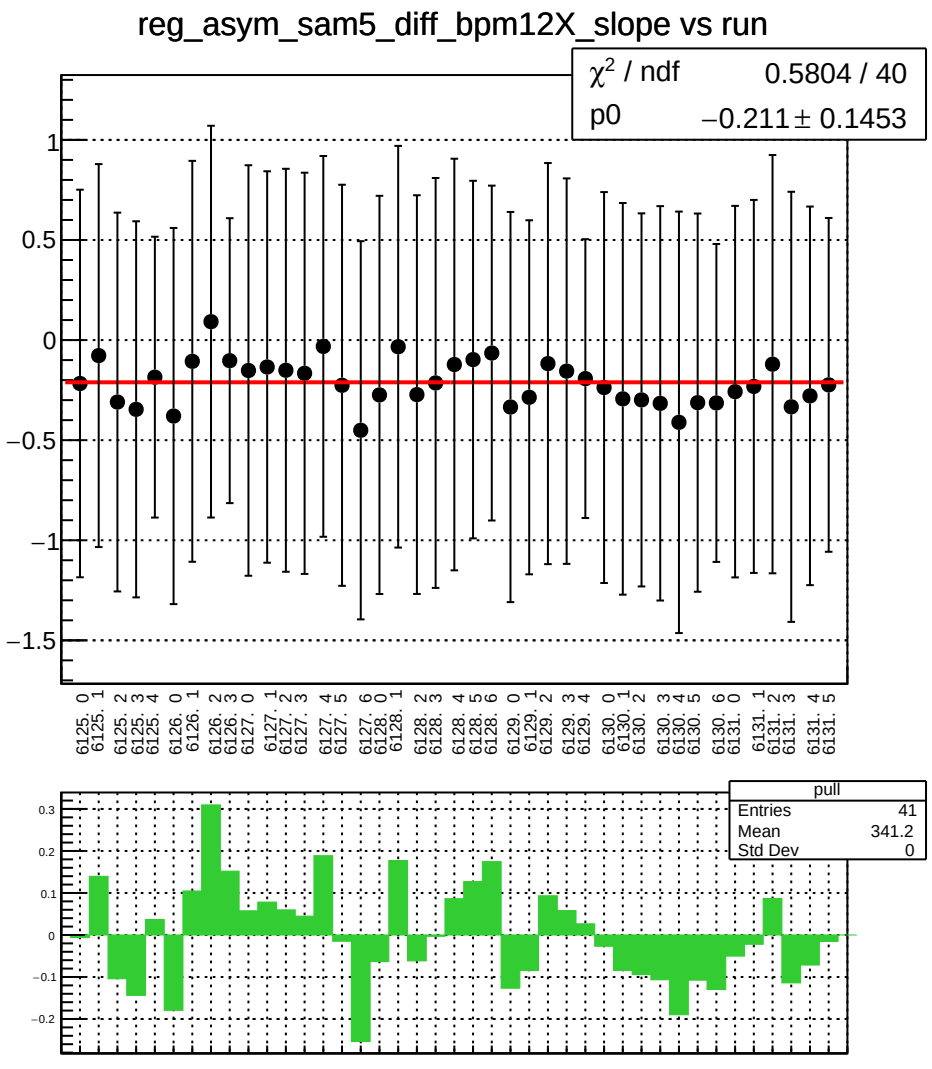

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 1.615 / 40
p0 54.63 ± 1.644
70
65
60
55
50
45
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 793.5
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

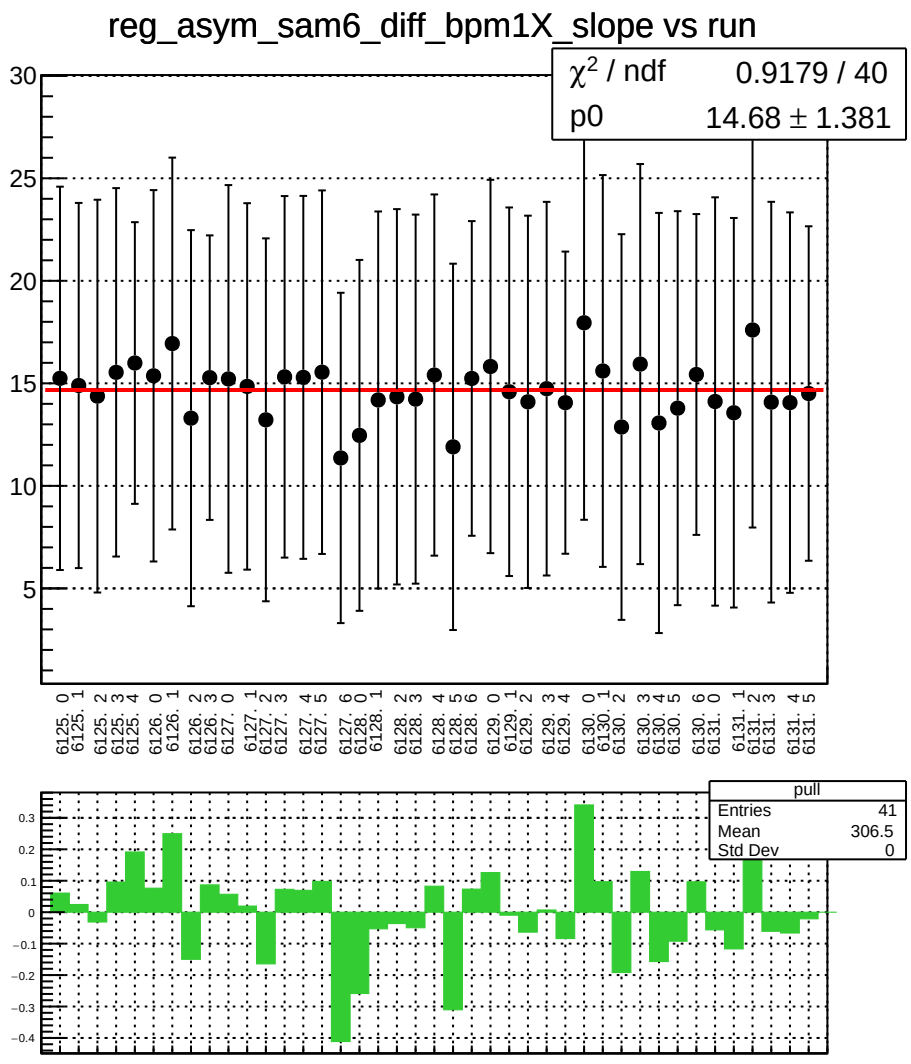

pull1D
Entries 41
Mean 0.001364
Std Dev 0.1985
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

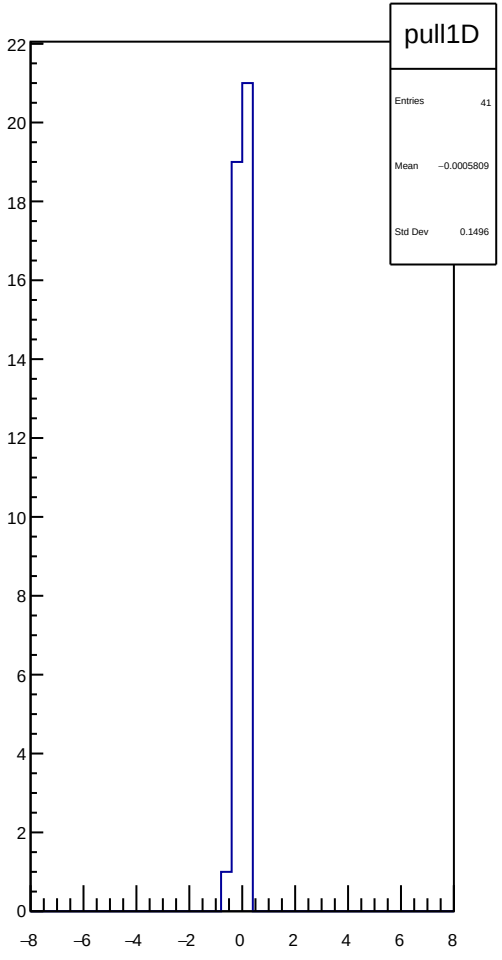

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 0.7093 / 40
p0 −0.8881 ± 1.851
15
10
5
0
−5
−10
−15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 329.1
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 41
Mean 0.002036
Std Dev 0.1315
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

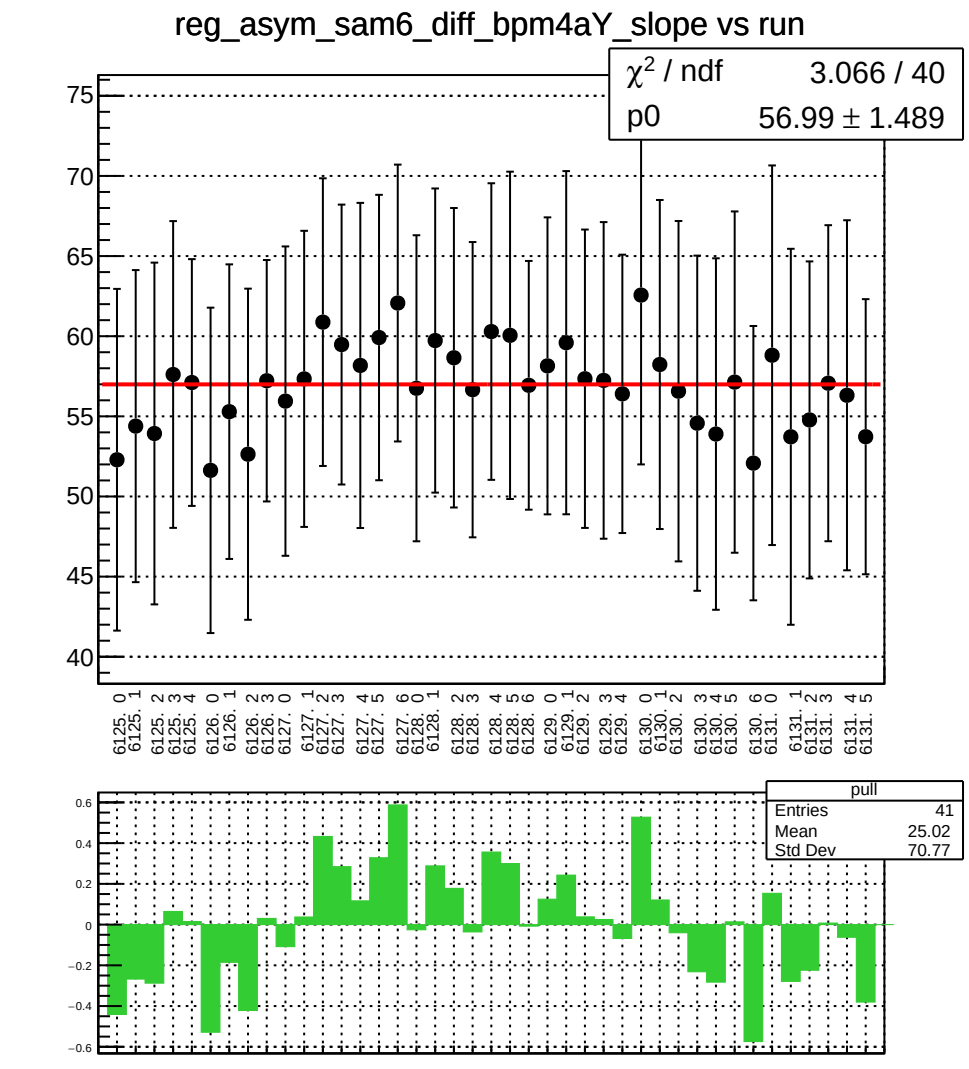

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 1.709 / 40
p0 101.2 ± 1.739
pull
Entries 41
Mean −556.8
Std Dev 0

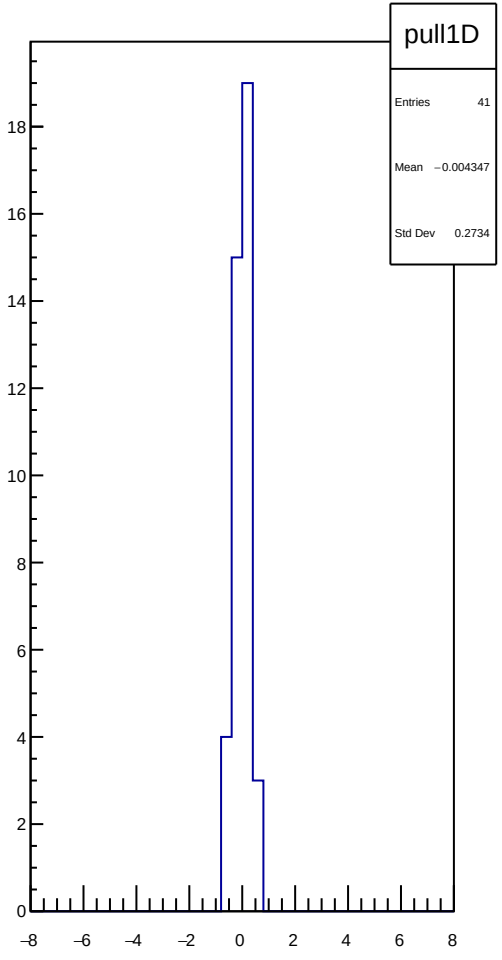

pull1D
Entries 41
Mean 0.000605
Std Dev 0.2041

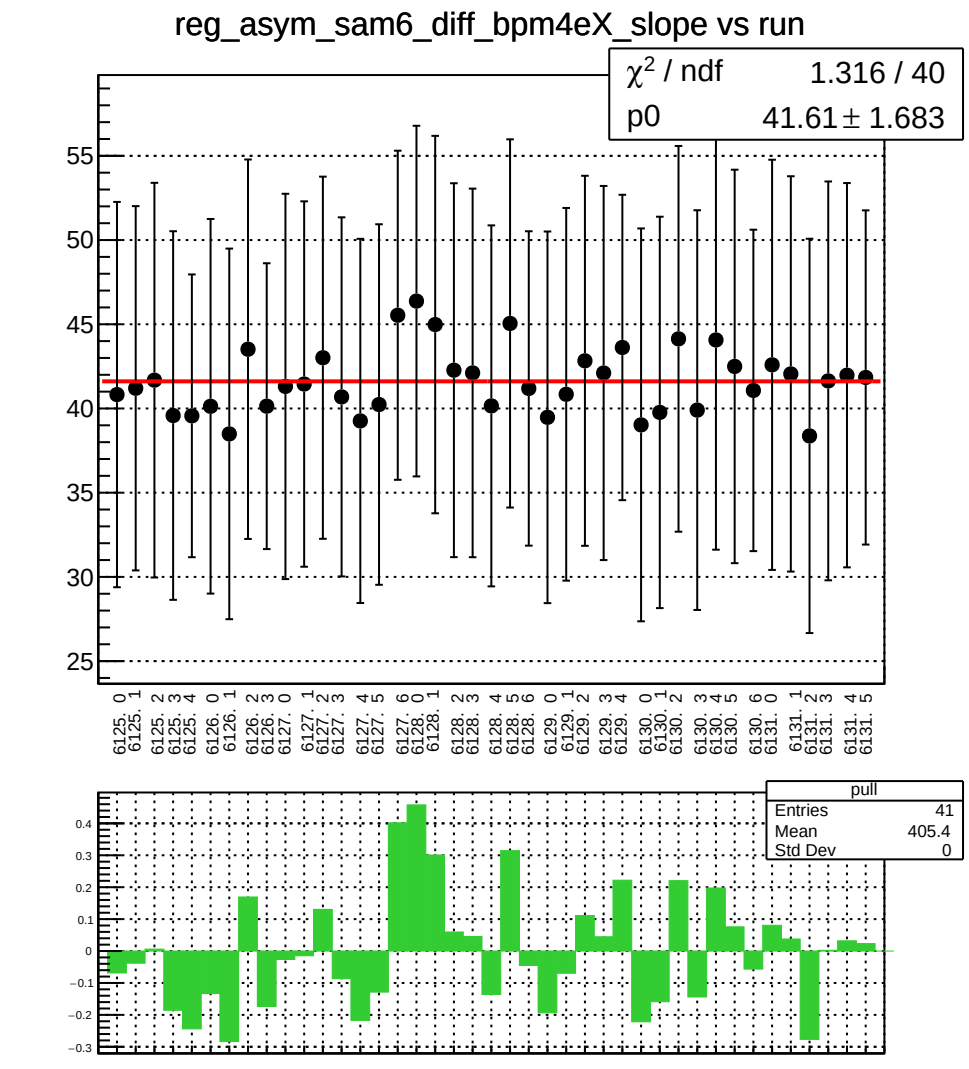

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 0.5804 / 40
p0 −0.211 ± 0.1453
pull
Entries 41
Mean 341.2
Std Dev 0
pull1D
Entries 41
Mean −0.001295
Std Dev 0.119

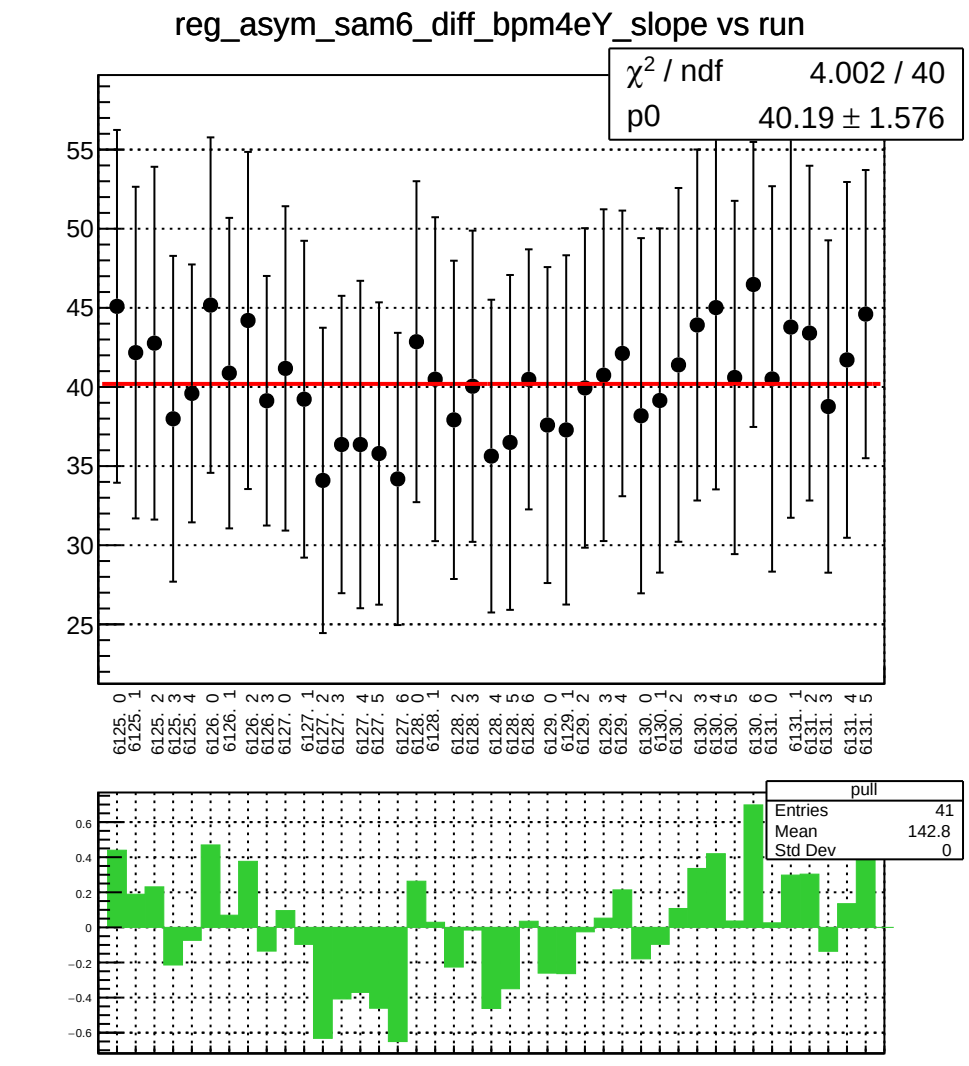

reg_asym_sam6_diff_bpm1X_slope vs run
χ^2 / ndf 0.9179 / 40
p0 14.68 ± 1.381
pull
Entries 41
Mean 306.5
Std Dev 0

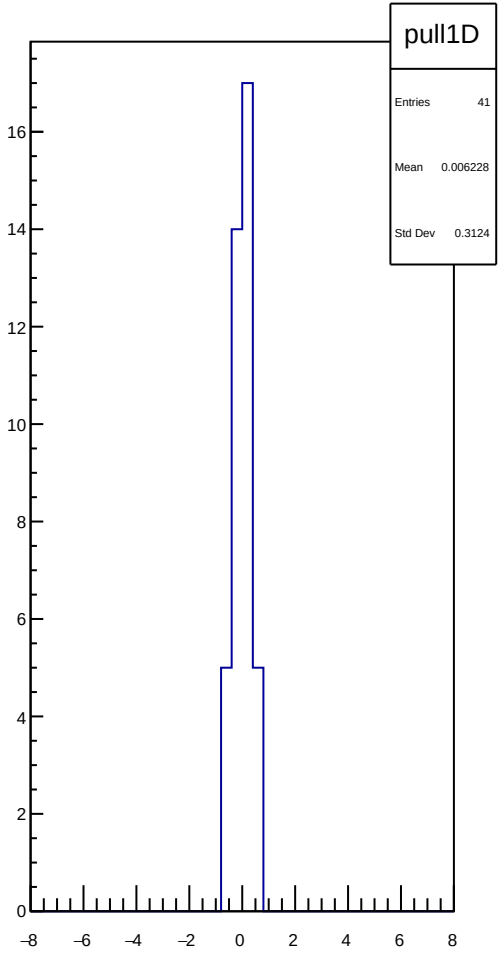

pull1D
Entries 41
Mean −0.0005809
Std Dev 0.1496

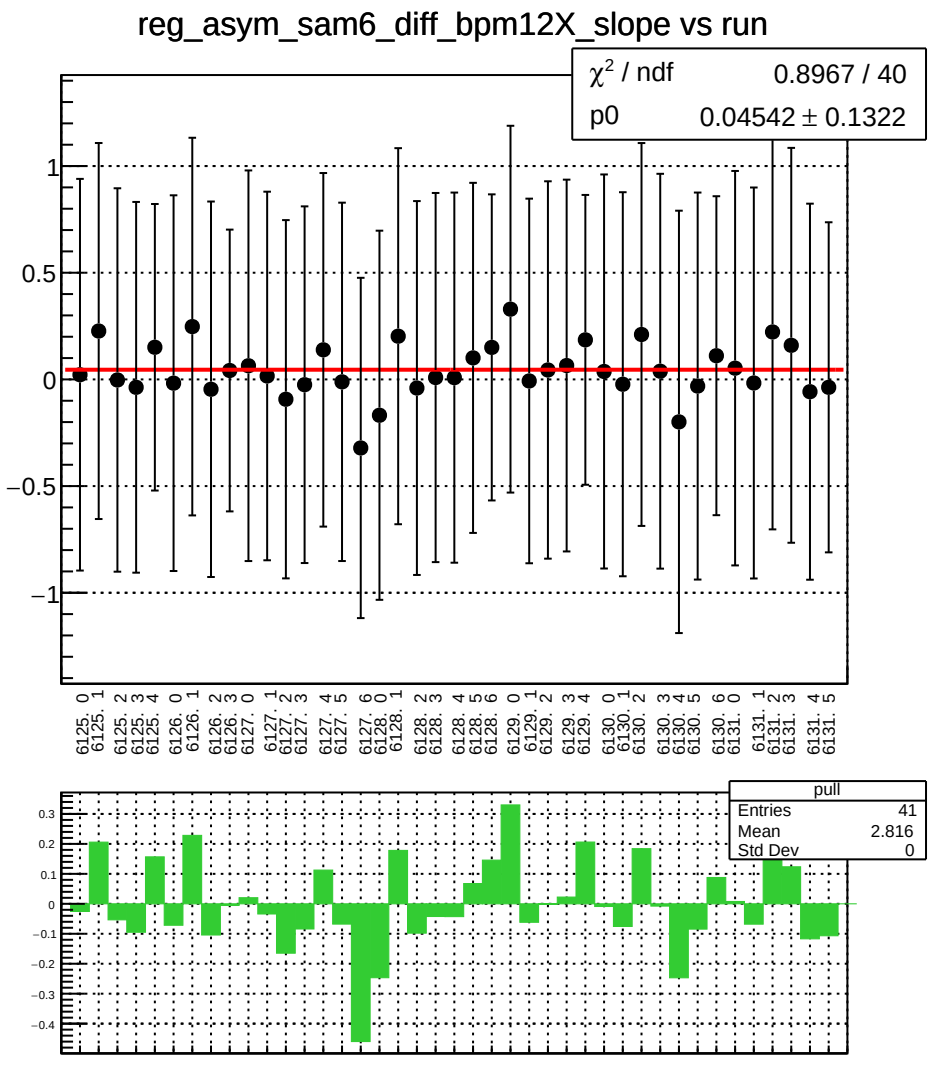

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 3.066 / 40
p0 56.99 ± 1.489
pull
Entries 41
Mean 25.02
Std Dev 70.77

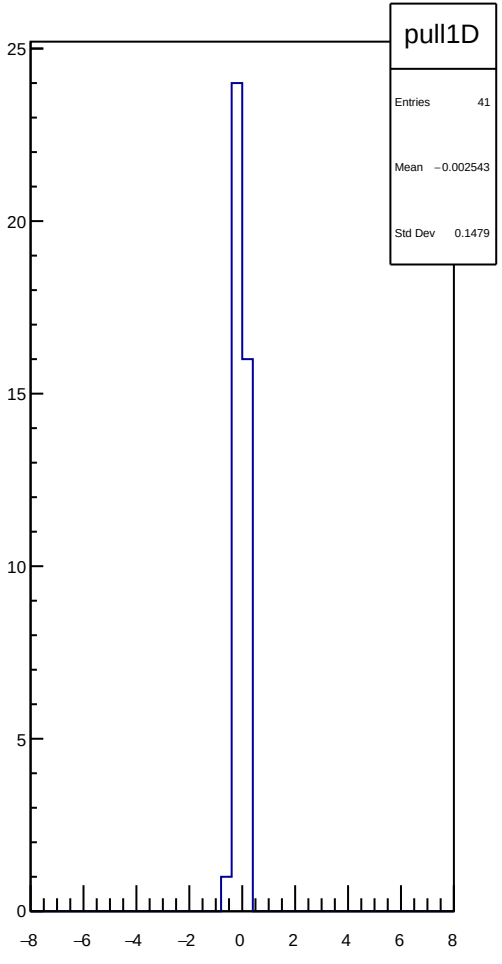

pull1D
Entries 41
Mean −0.004347
Std Dev 0.2734

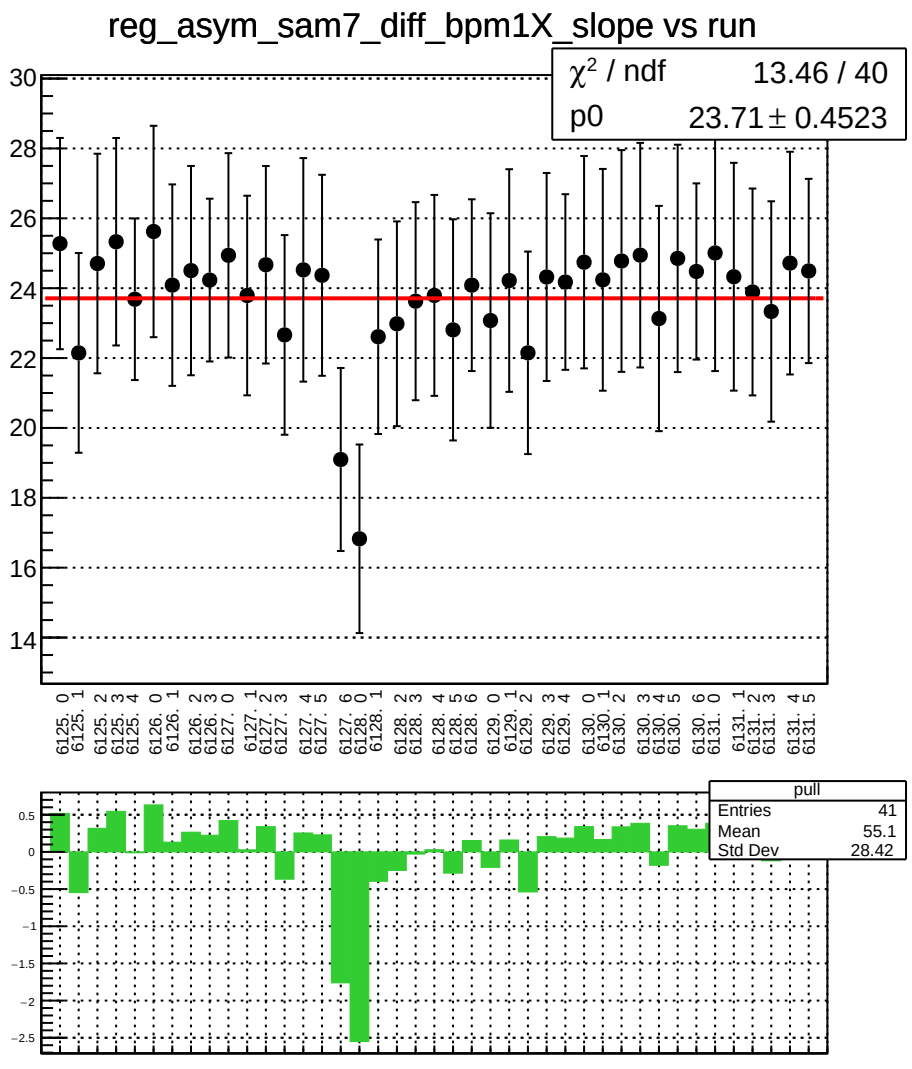

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 1.316 / 40
p0 41.61 ± 1.683
55
50
45
40
35
30
25
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 405.4
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 41
Mean 0.0007718
Std Dev 0.1792
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

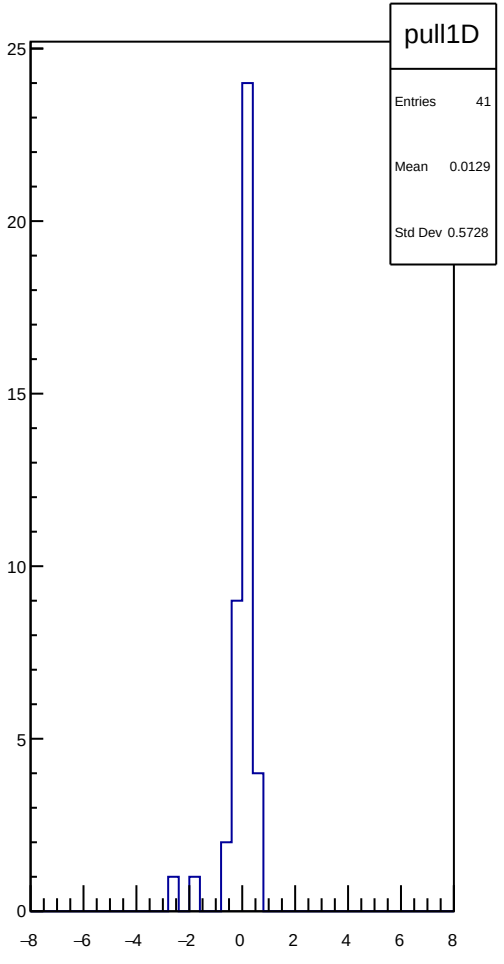

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 4.002 / 40
p0 40.19 ± 1.576
pull
Entries 41
Mean 142.8
Std Dev 0

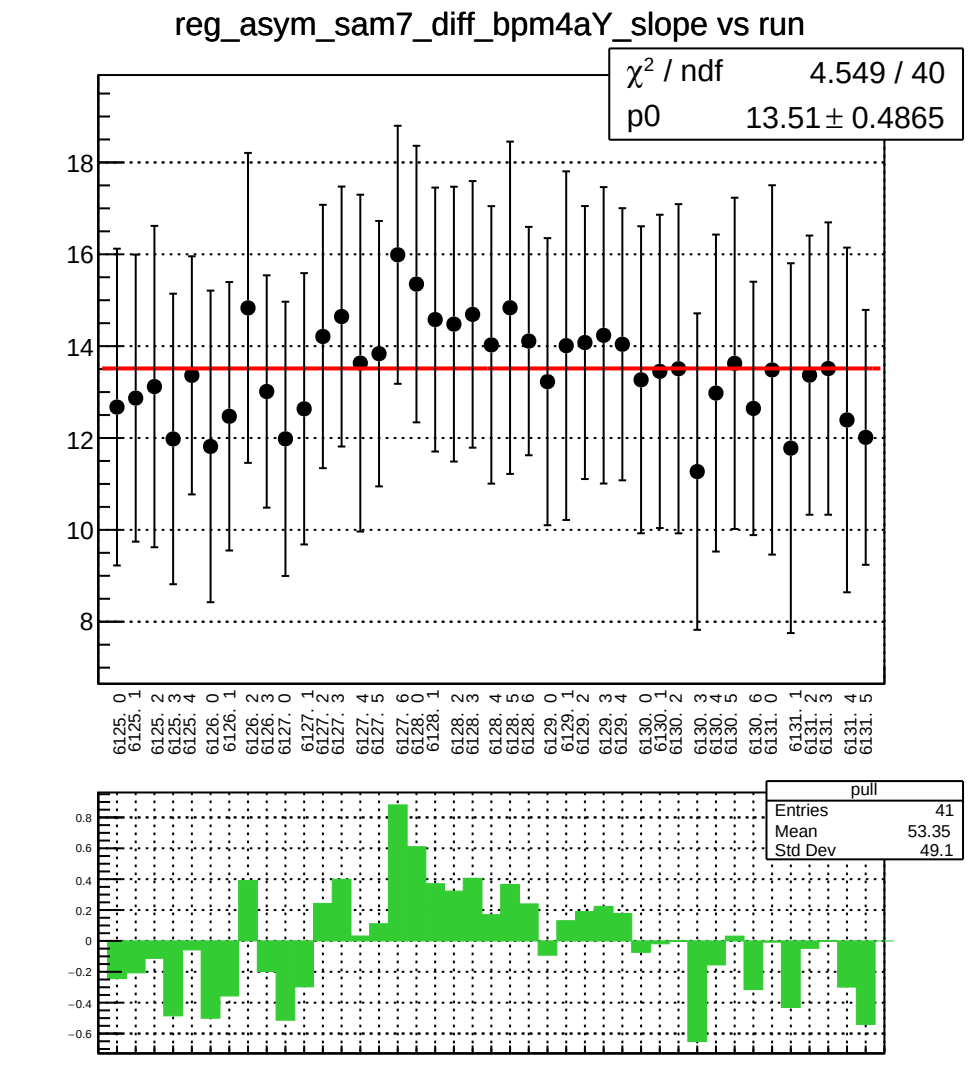

pull1D
Entries 41
Mean 0.006228
Std Dev 0.3124

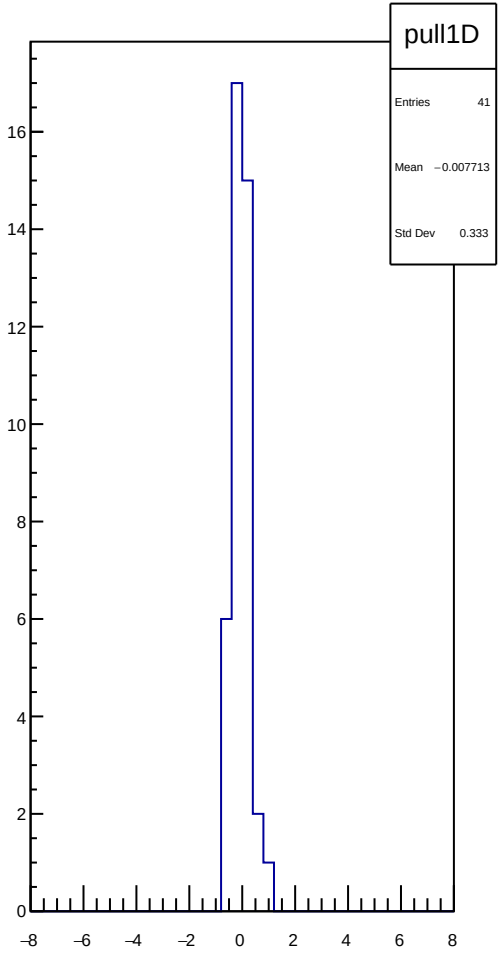

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 0.8967 / 40
p0 0.04542 ± 0.1322
pull
Entries 41
Mean 2.816
Std Dev 0

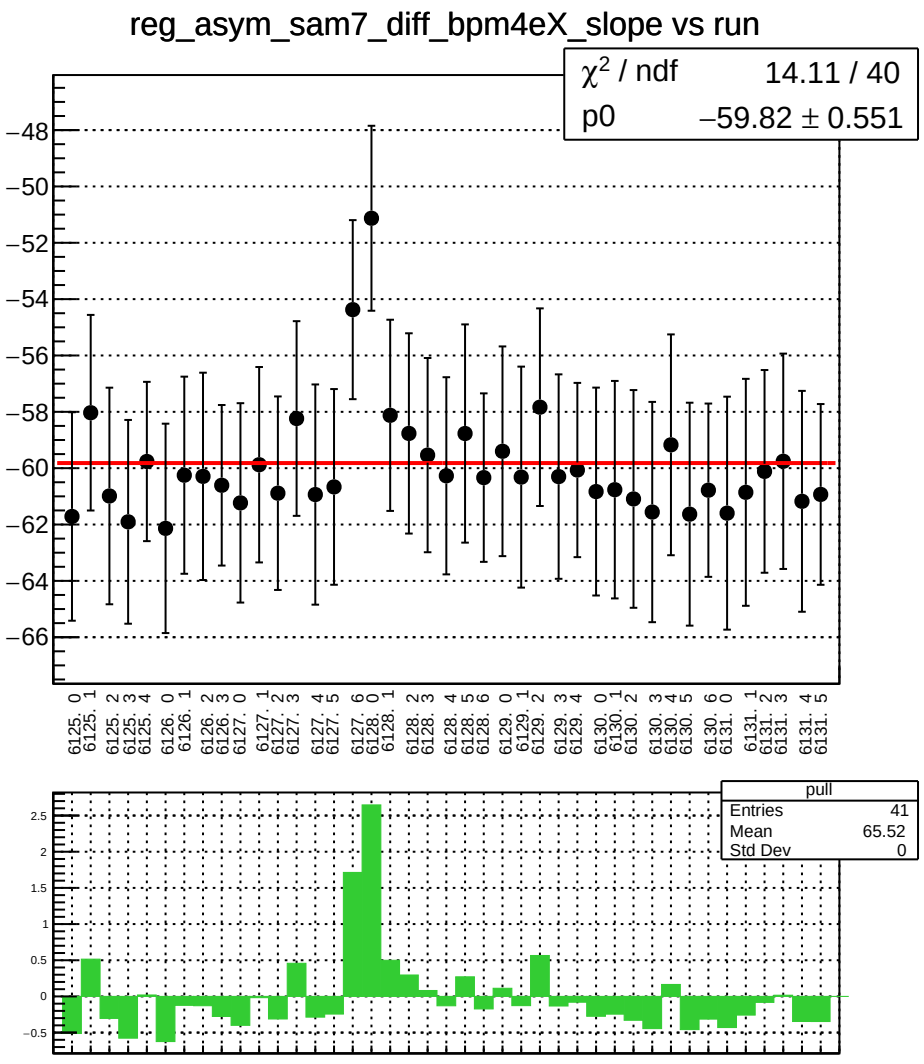

pull1D
Entries 41
Mean −0.002543
Std Dev 0.1479

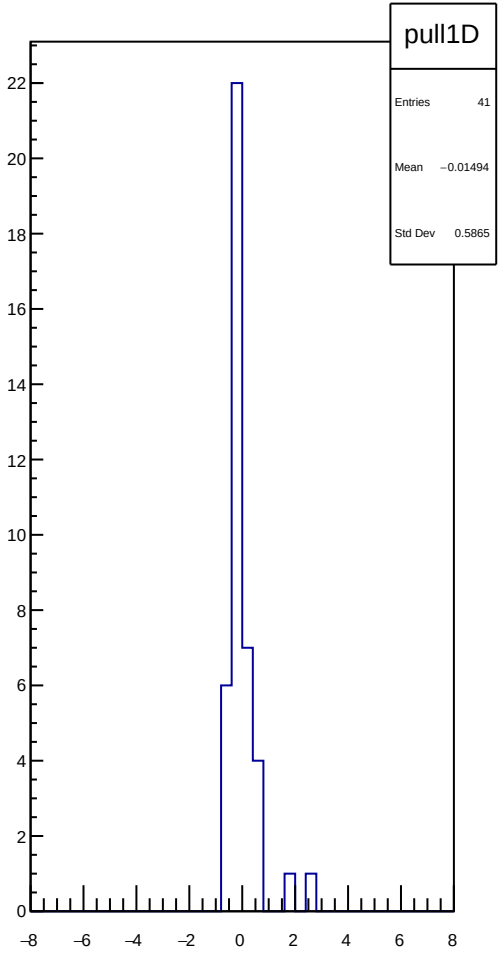

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 13.46 / 40
p0 23.71 ± 0.4523
pull
Entries 41
Mean 55.1
Std Dev 28.42

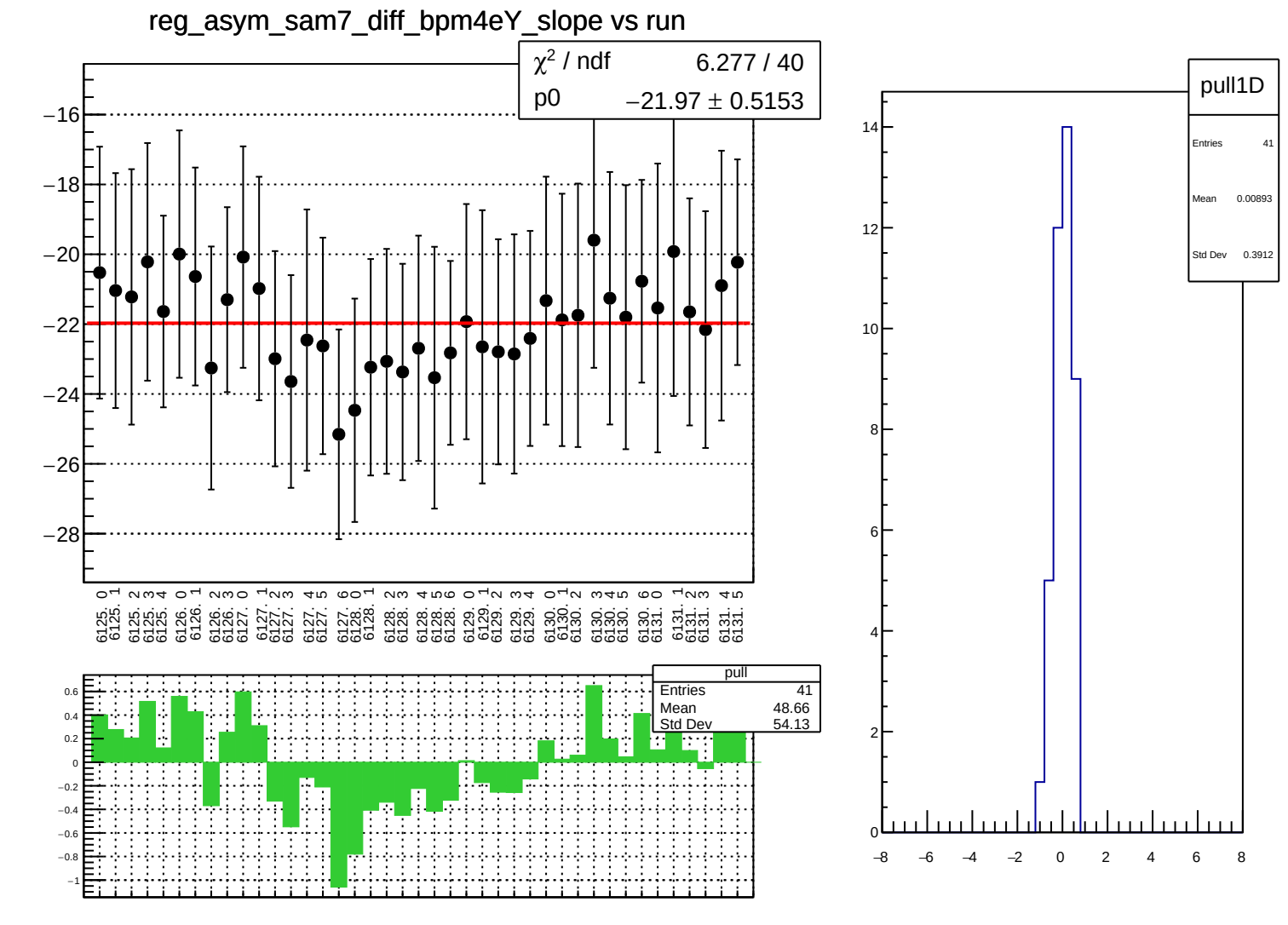

pull1D
Entries 41
Mean 0.0129
Std Dev 0.5728

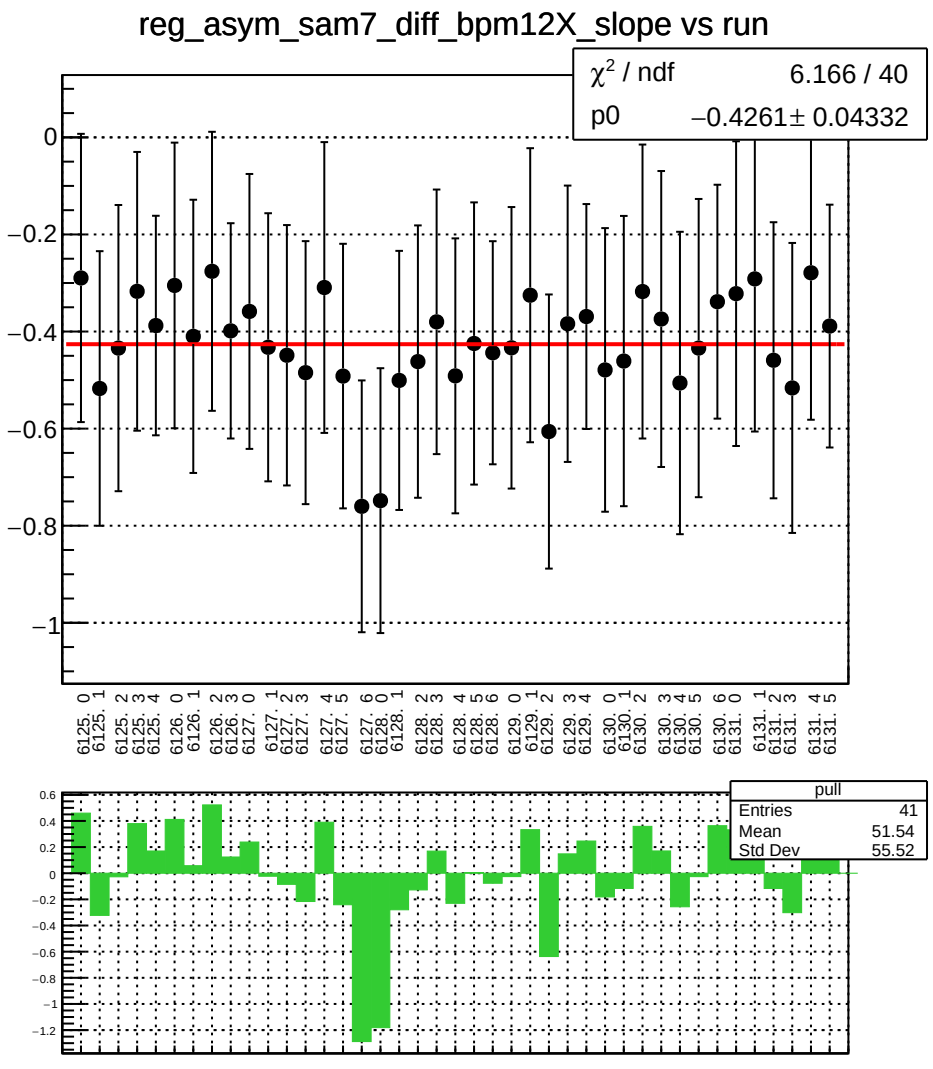

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 4.549 / 40
p0 13.51 ± 0.4865
pull
Entries 41
Mean 53.35
Std Dev 49.1

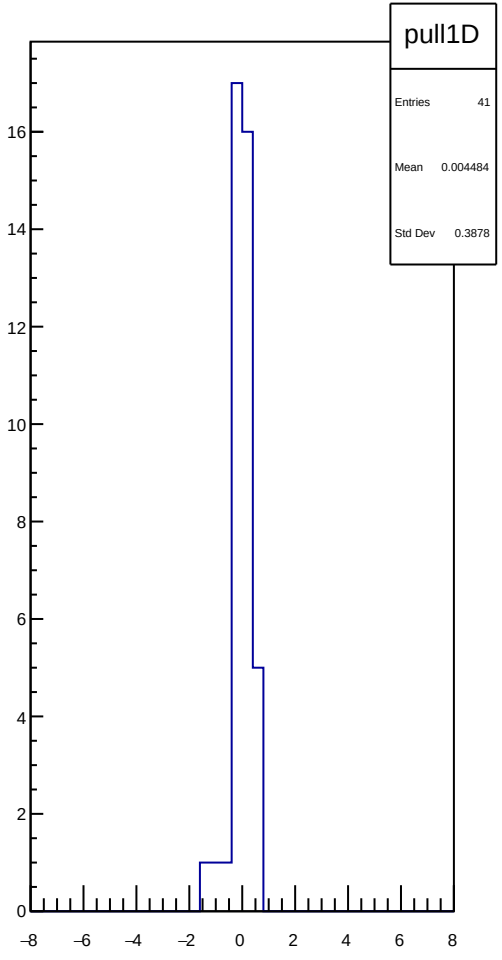

pull1D
Entries 41
Mean −0.007713
Std Dev 0.333

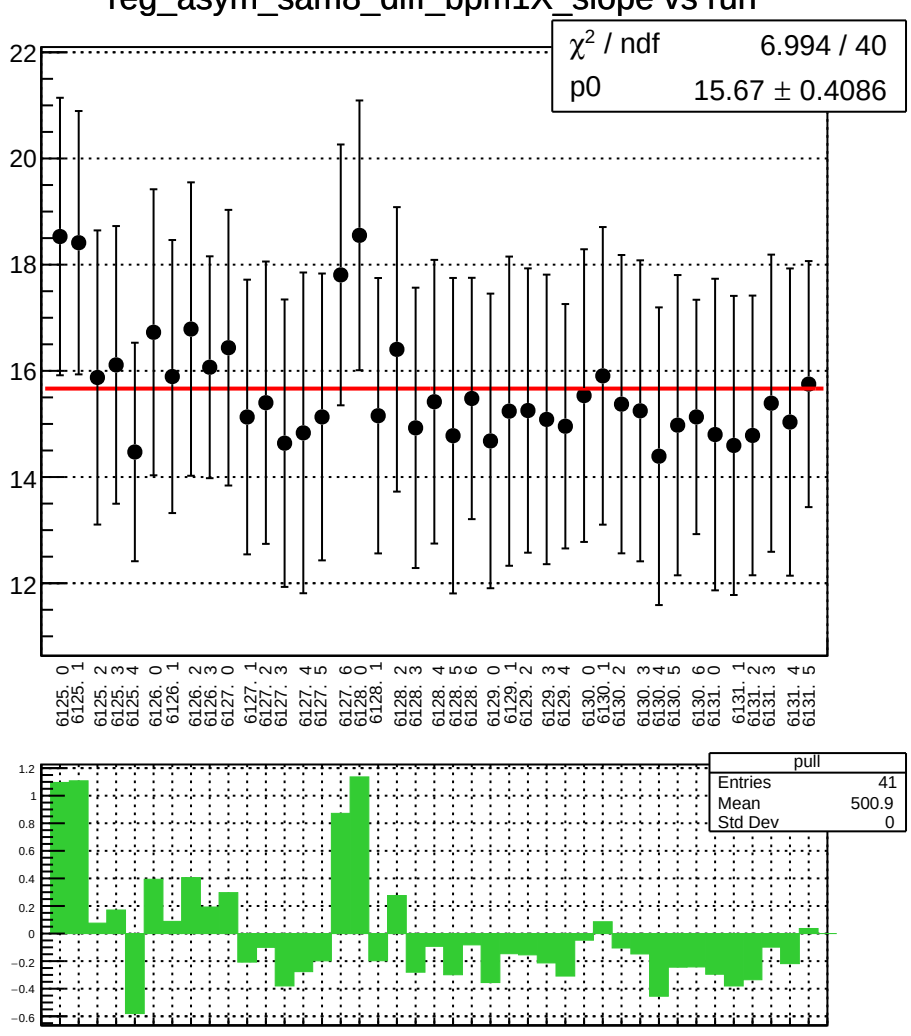

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 14.11 / 40
p0 −59.82 ± 0.551
pull
Entries 41
Mean 65.52
Std Dev 0

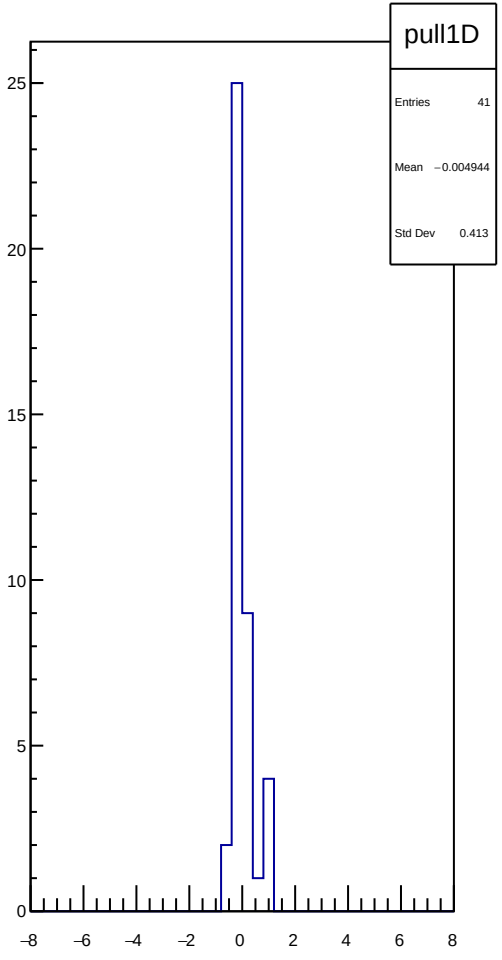

pull1D
Entries 41
Mean −0.01494
Std Dev 0.5865

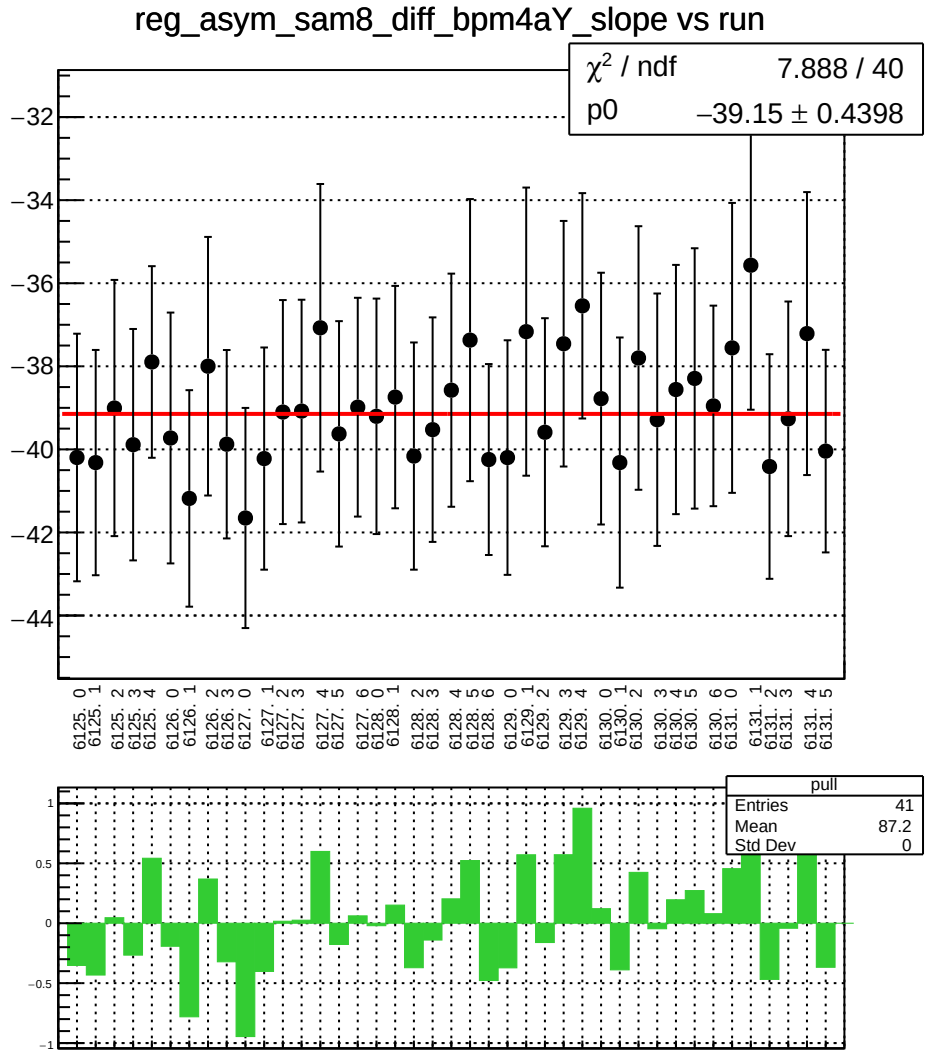

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 6.277 / 40
p0 −21.97 ± 0.5153
−16
−18
−20
−22
−24
−26
−28
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 48.66
Std Dev 54.13
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 41
Mean 0.00893
Std Dev 0.3912
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

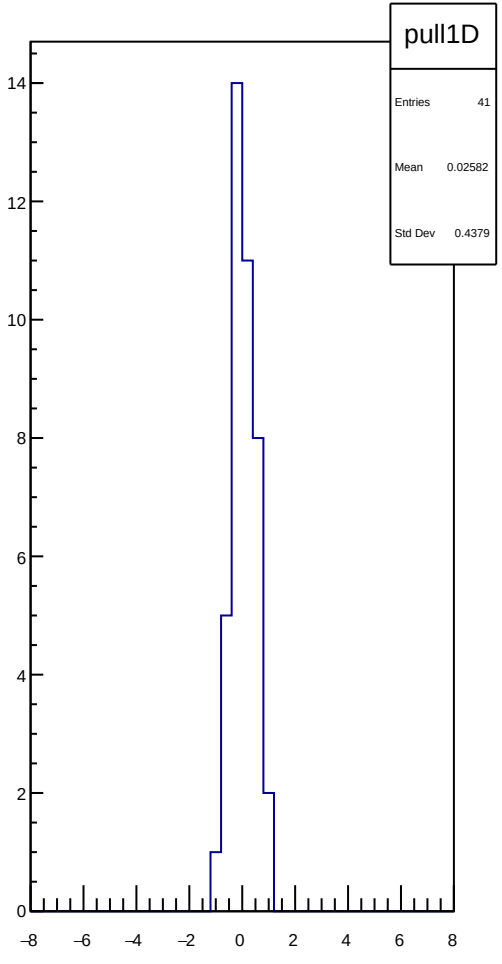

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 6.166 / 40
p0 −0.4261± 0.04332
0
−0.2
−0.4
−0.6
−0.8
−1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 51.54
Std Dev 55.52
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

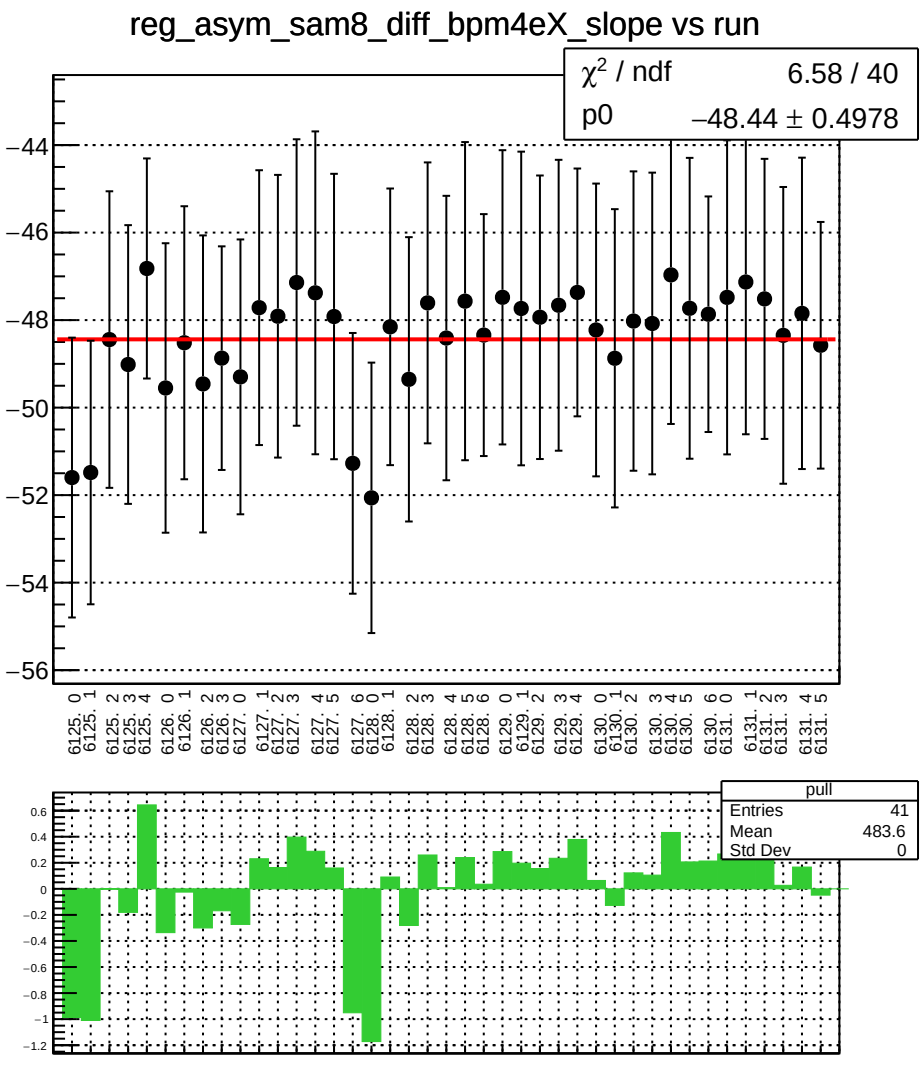

pull1D
Entries 41
Mean 0.004484
Std Dev 0.3878
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

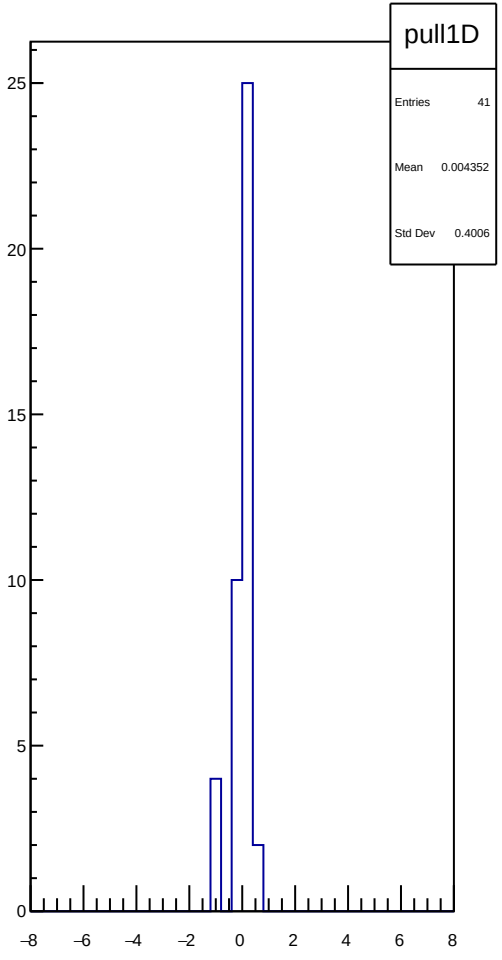

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 6.994 / 40
p0 15.67 ± 0.4086
pull
Entries 41
Mean 500.9
Std Dev 0

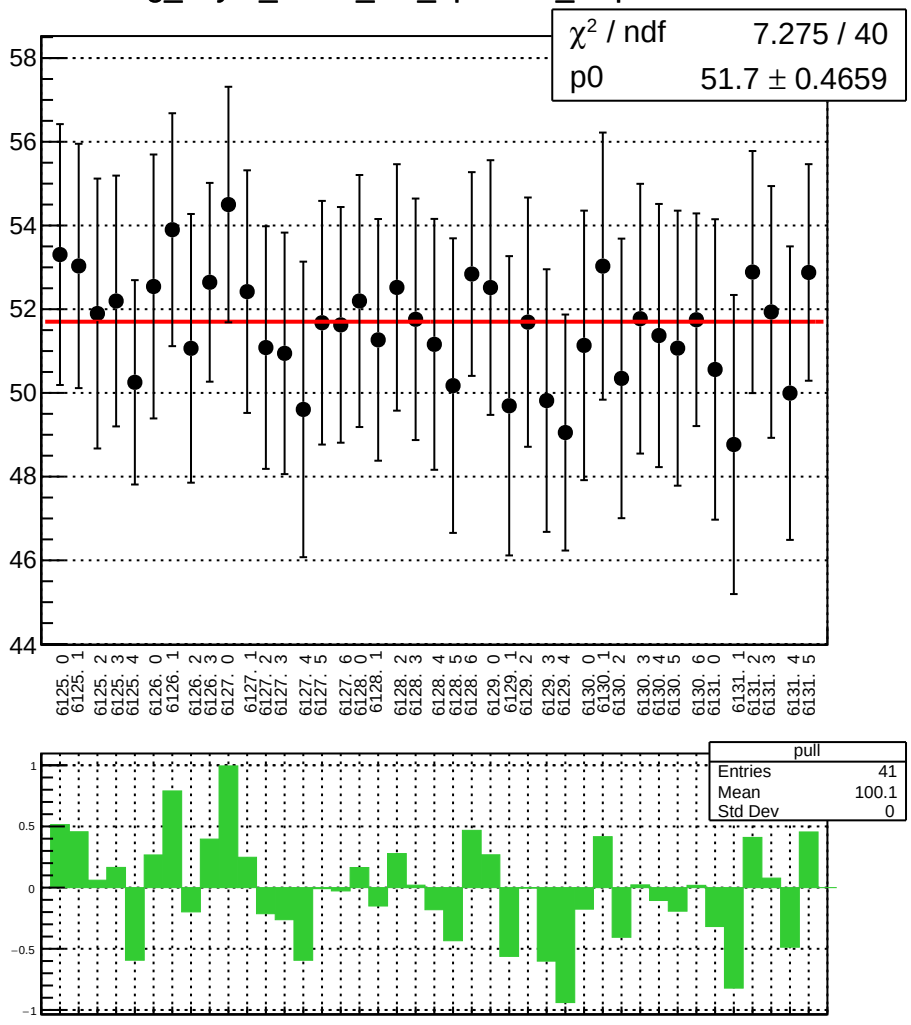

pull1D
Entries 41
Mean −0.004944
Std Dev 0.413

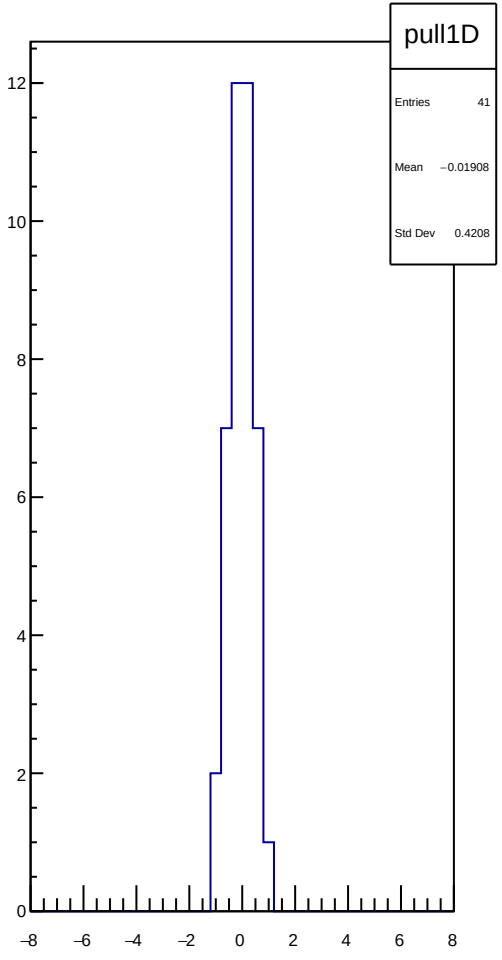

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 7.888 / 40
p0 −39.15 ± 0.4398
pull
Entries 41
Mean 87.2
Std Dev 0

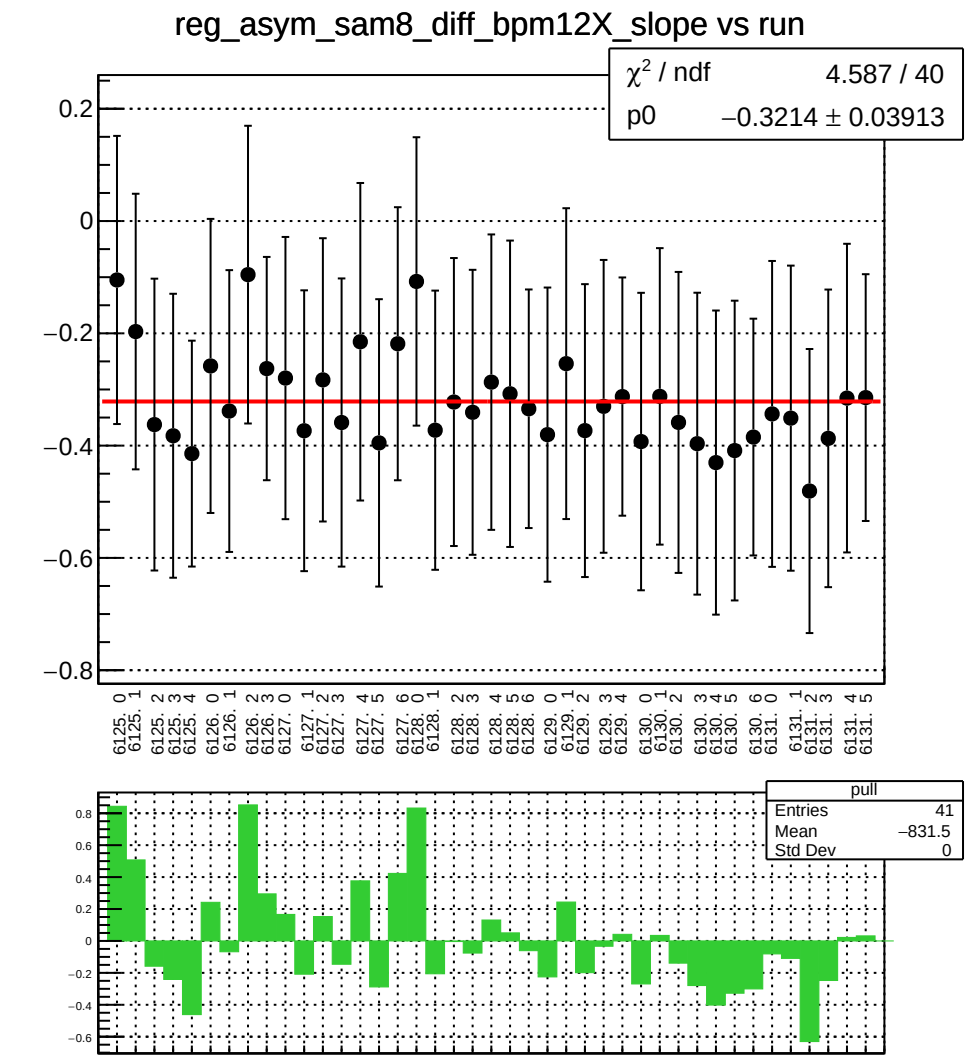

pull1D
Entries 41
Mean 0.02582
Std Dev 0.4379

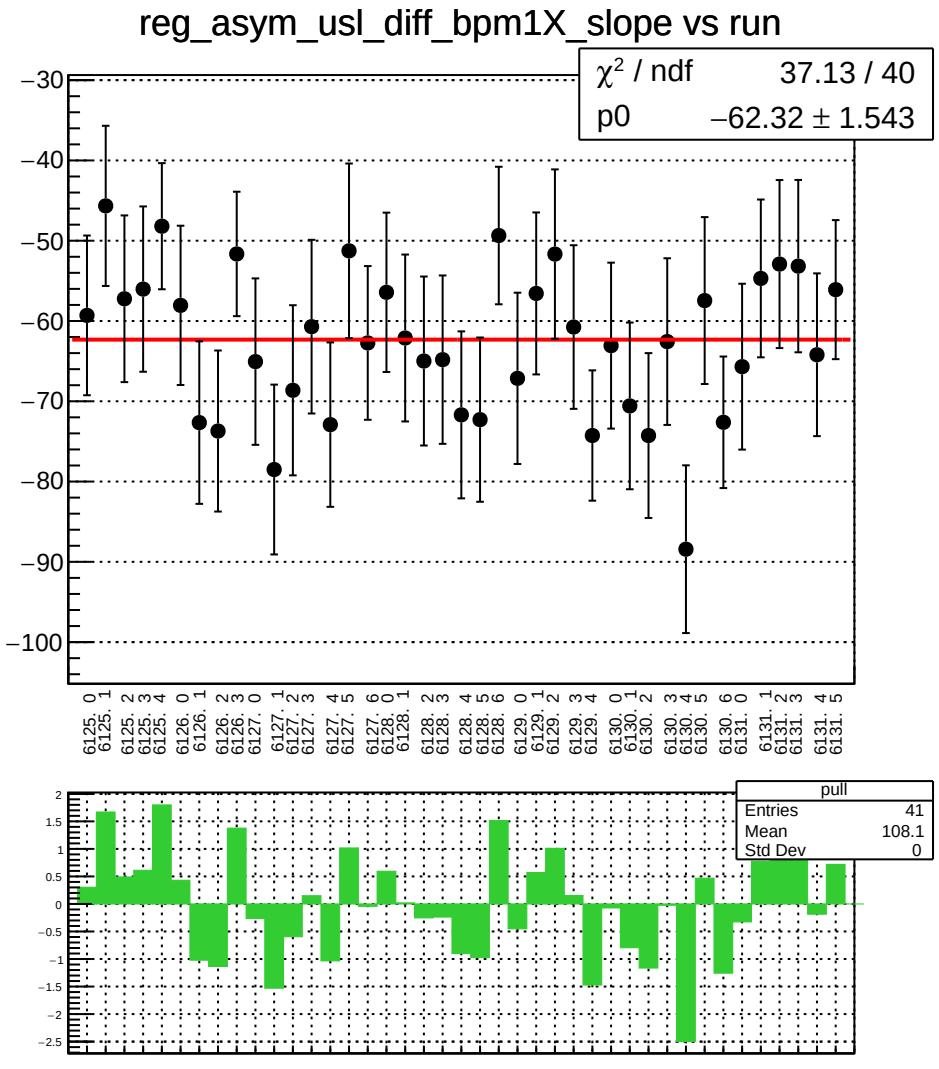

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 6.58 / 40
p0 −48.44 ± 0.4978
pull
Entries 41
Mean 483.6
Std Dev 0

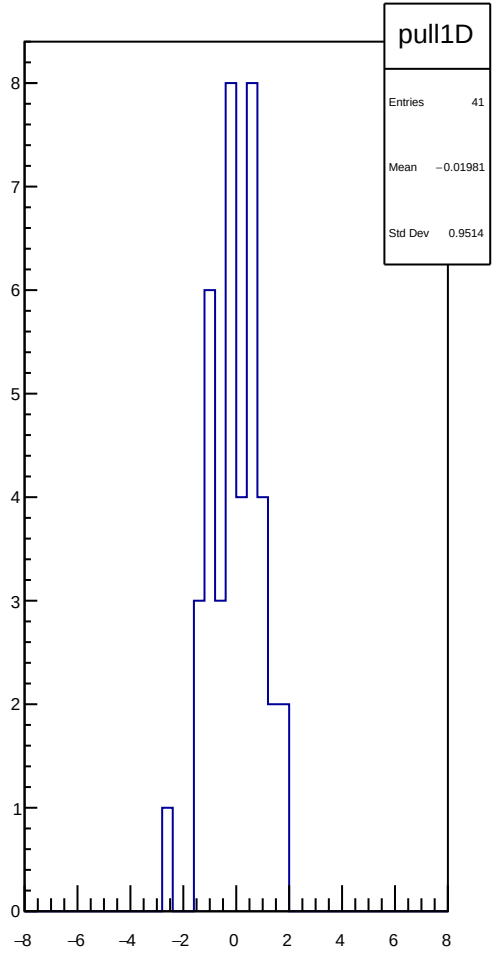

pull1D
Entries 41
Mean 0.004352
Std Dev 0.4006

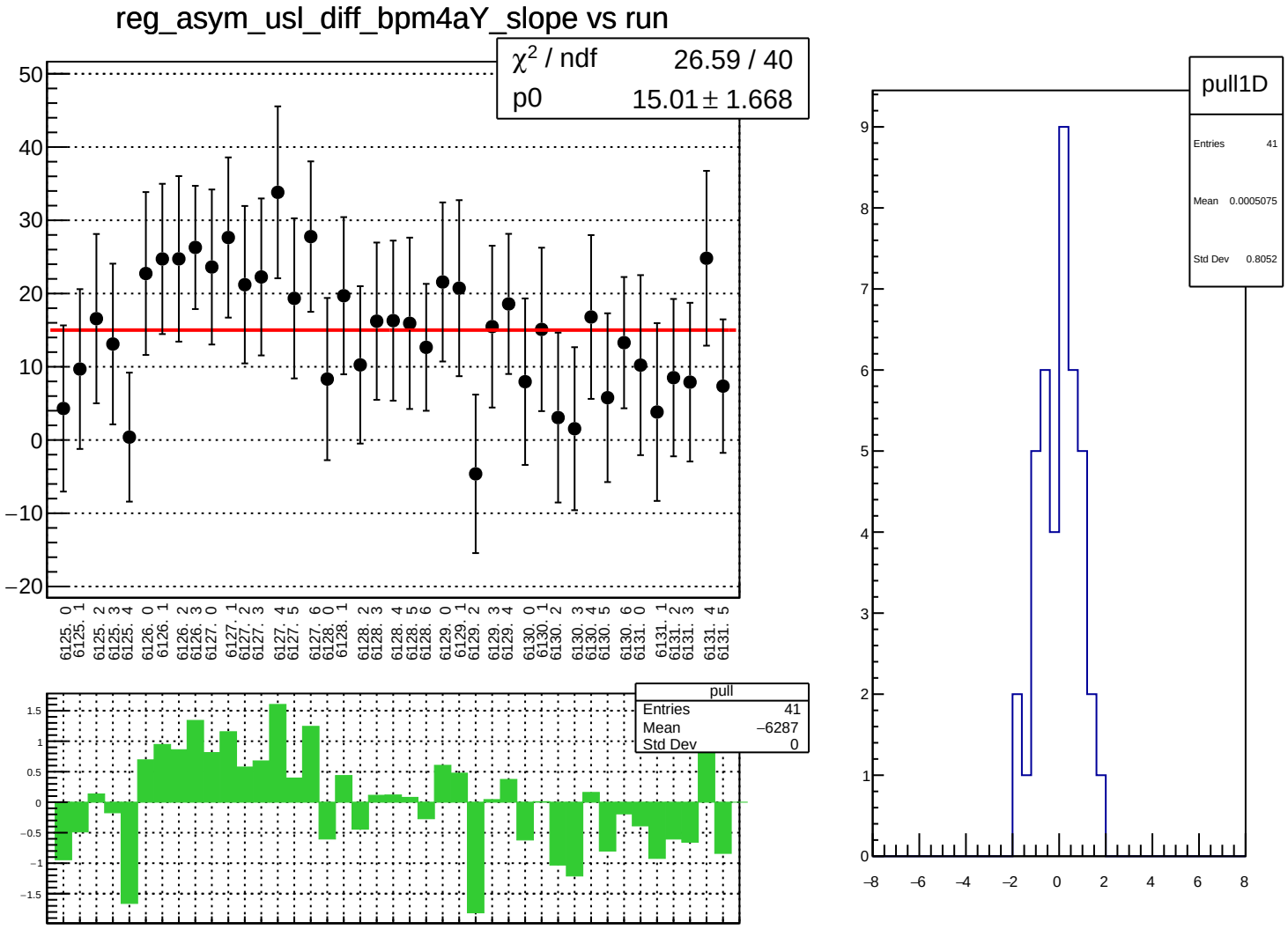

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 7.275 / 40
p0 51.7 ± 0.4659
pull
Entries 41
Mean 100.1
Std Dev 0

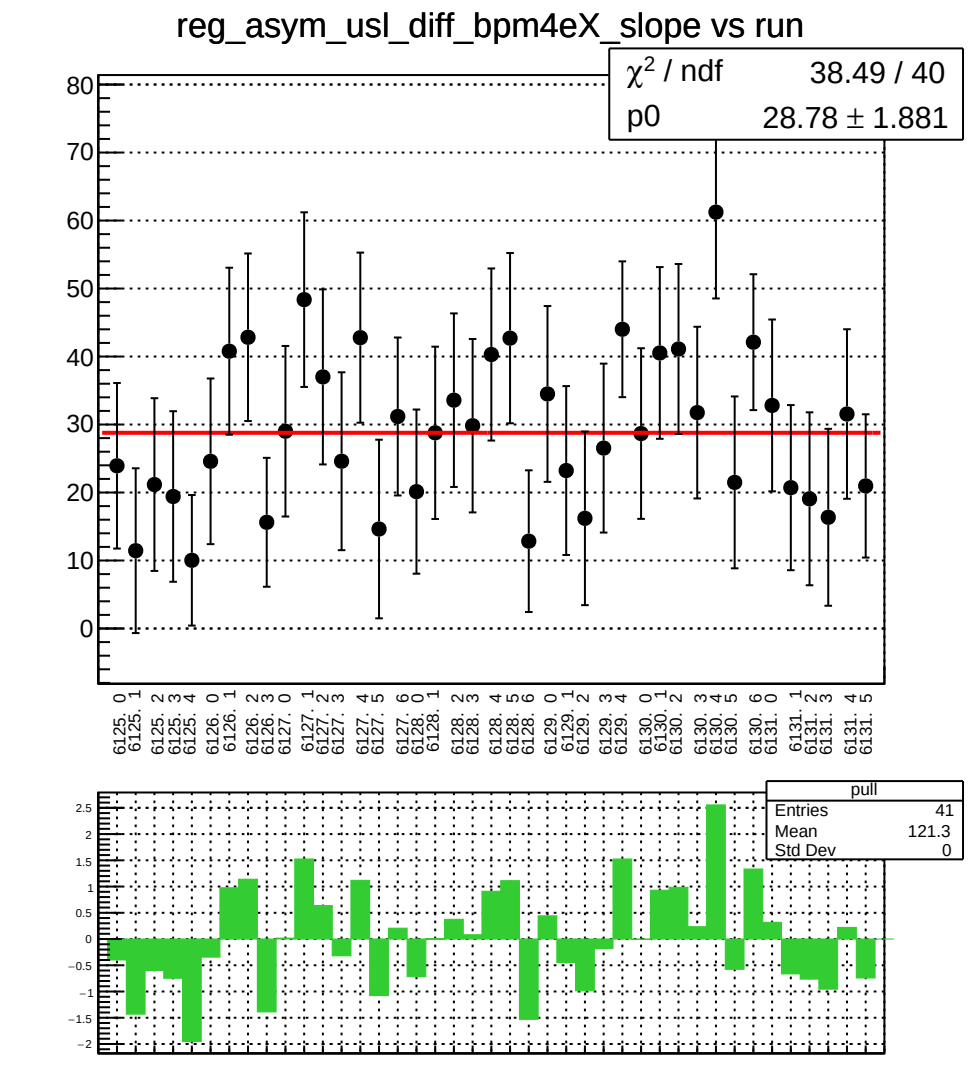

pull1D
Entries 41
Mean −0.01908
Std Dev 0.4208

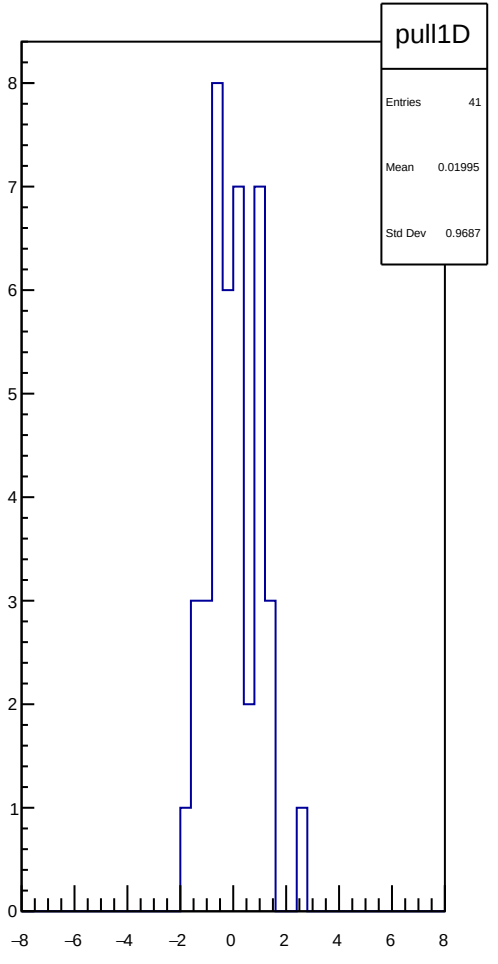

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 4.587 / 40
p0 −0.3214 ± 0.03913
0.2
0
−0.2
−0.4
−0.6
−0.8
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −831.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean 0.002074
Std Dev 0.3345
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

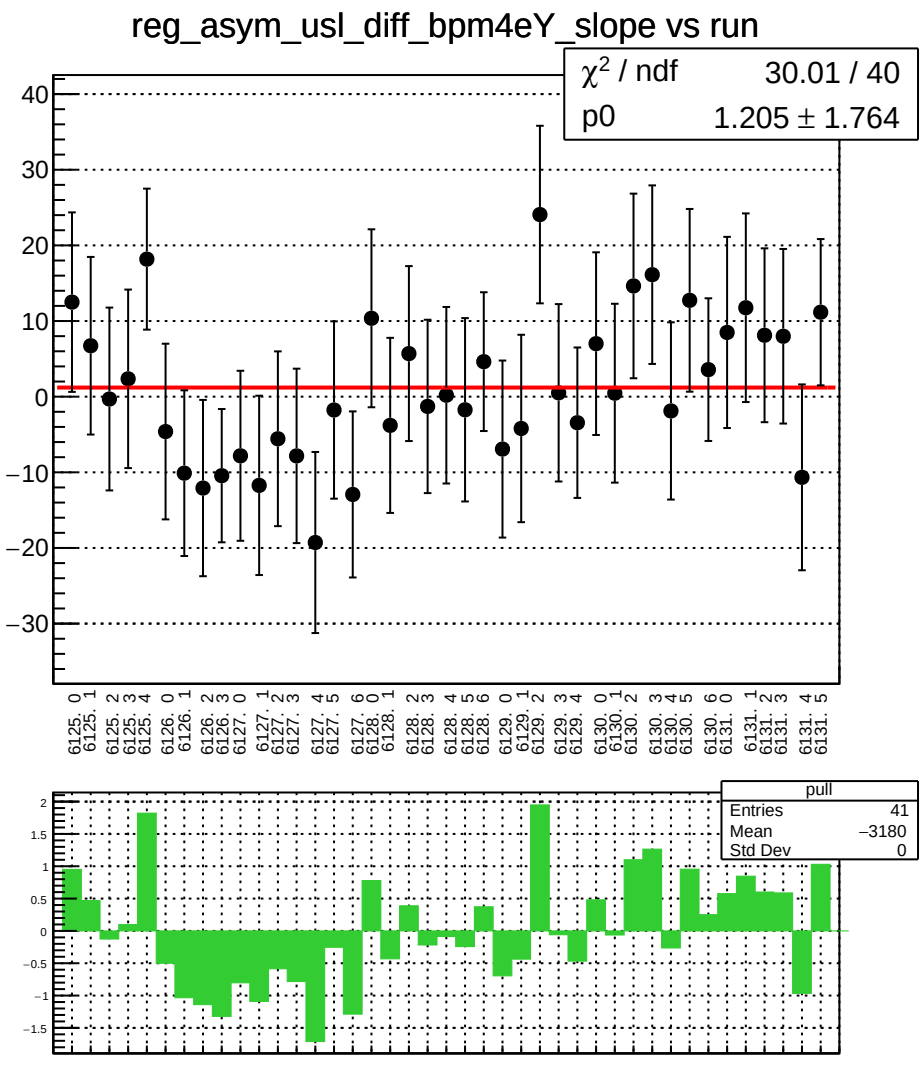

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 37.13 / 40
p0 −62.32 ± 1.543
−30
−40
−50
−60
−70
−80
−90
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 108.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

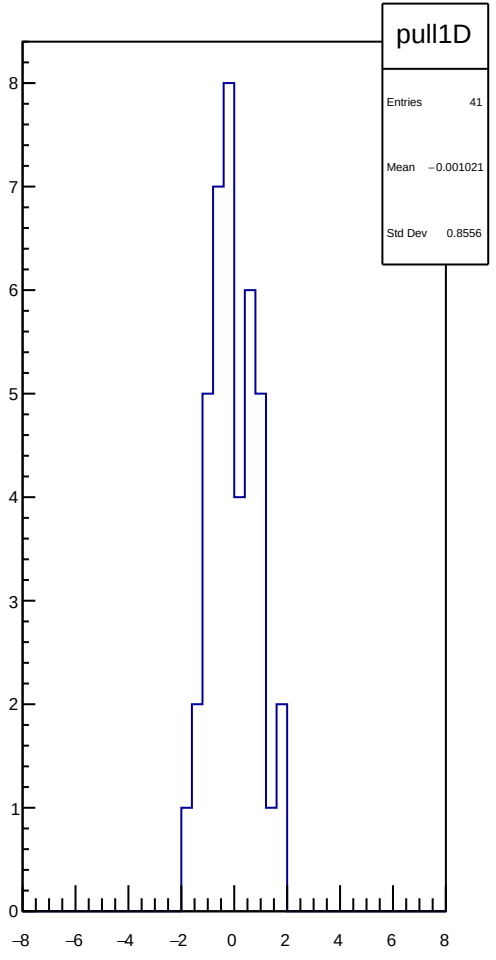

pull1D
Entries 41
Mean −0.01981
Std Dev 0.9514
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

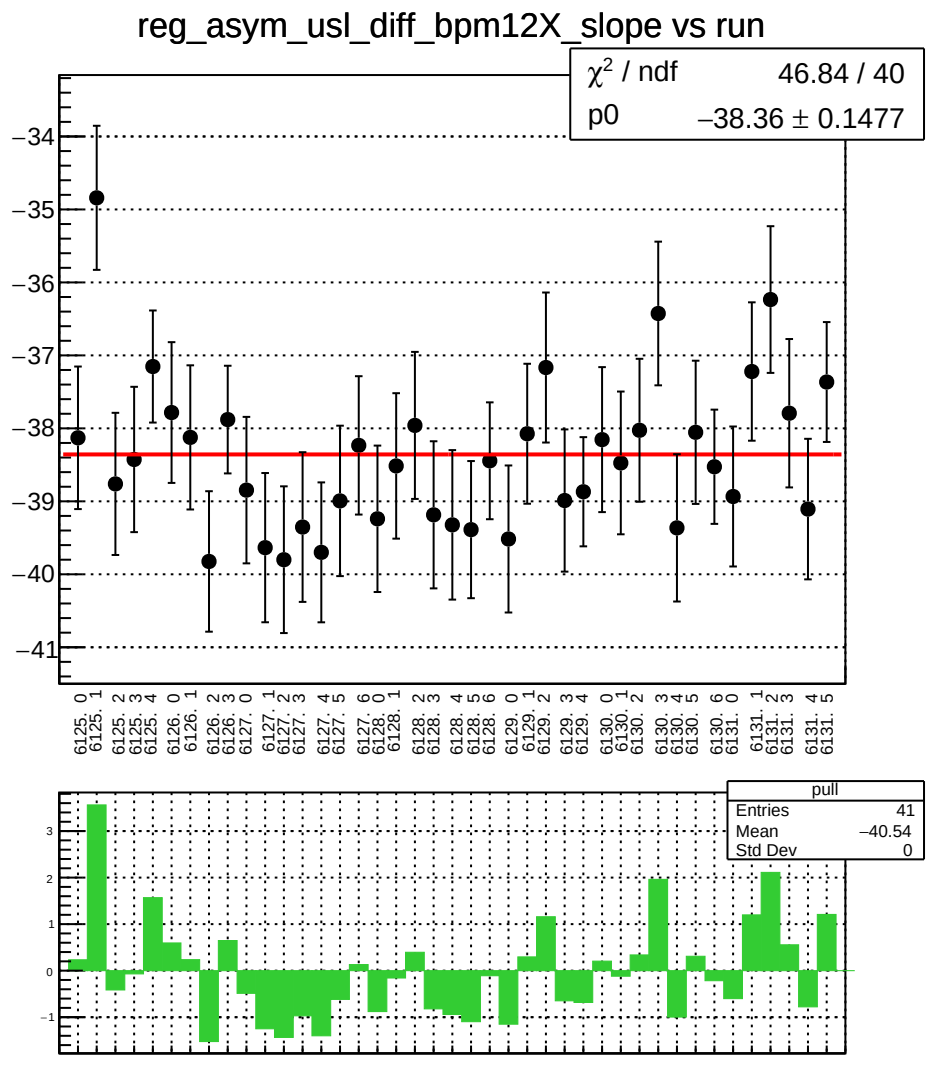

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 26.59 / 40
p0 15.01 ± 1.668
pull
Entries 41
Mean −6287
Std Dev 0
pull1D
Entries 41
Mean 0.0005075
Std Dev 0.8052

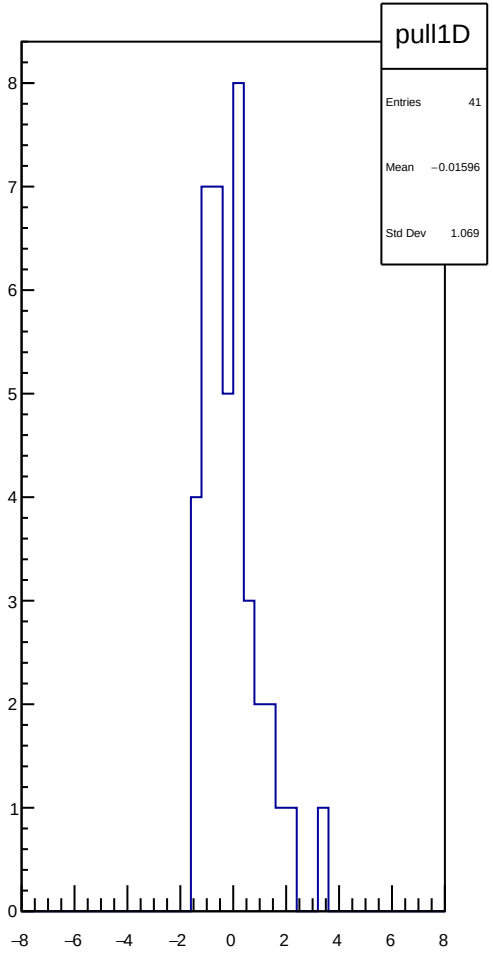

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 38.49 / 40
p0 28.78 ± 1.881
pull
Entries 41
Mean 121.3
Std Dev 0

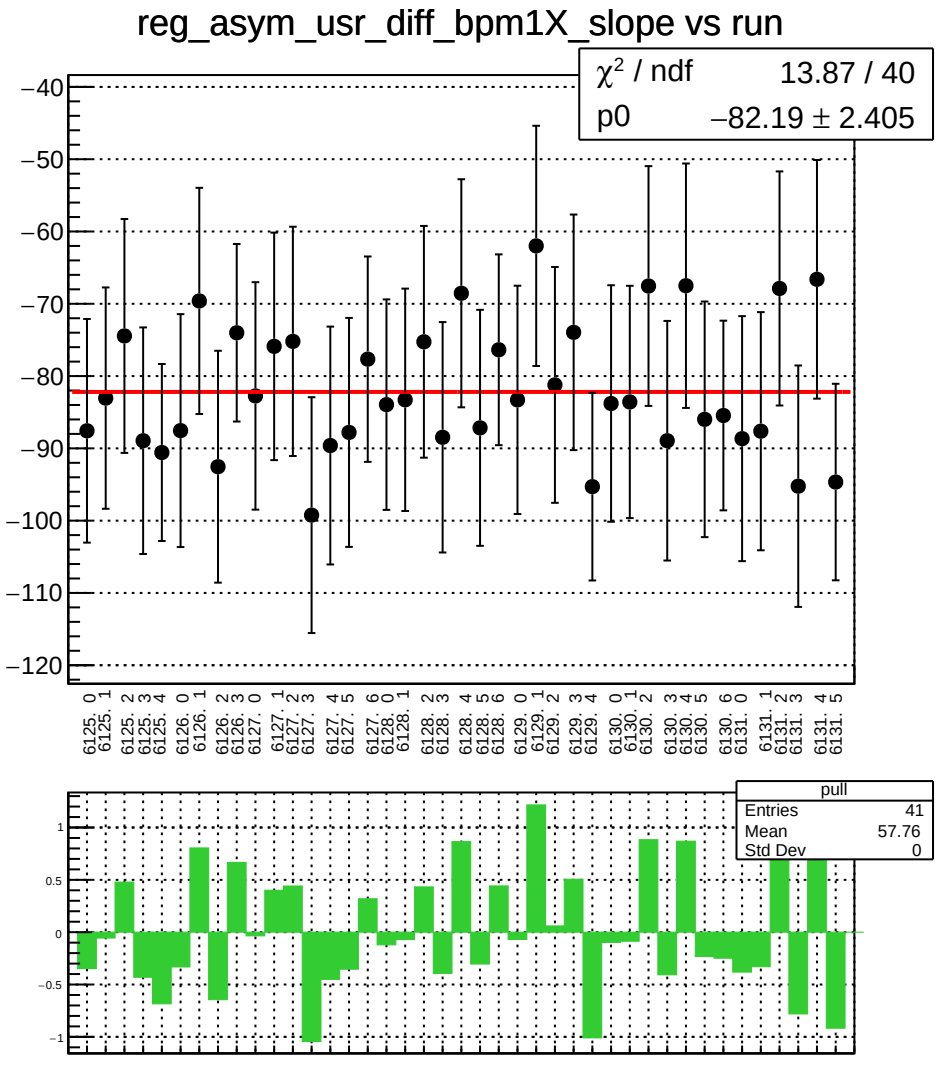

pull1D
Entries 41
Mean 0.01995
Std Dev 0.9687

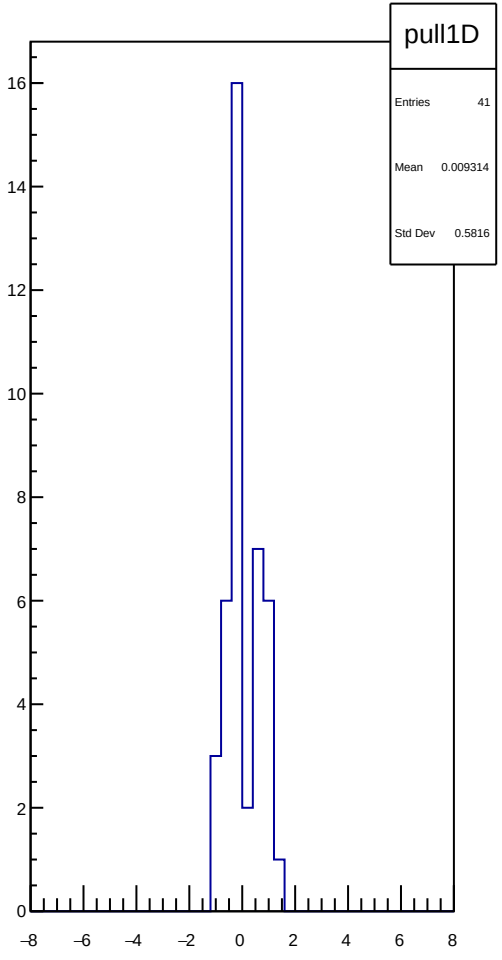

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 30.01 / 40
p0 1.205 ± 1.764
pull
Entries 41
Mean −3180
Std Dev 0

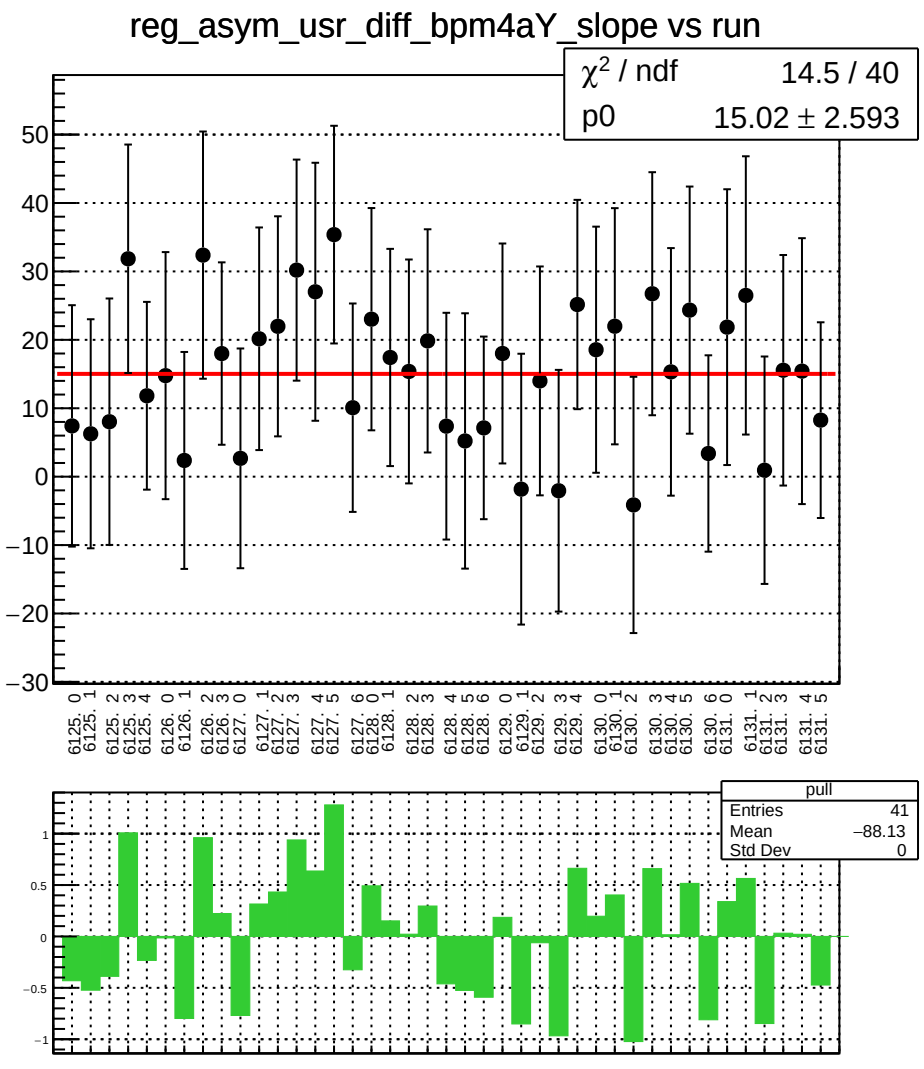

pull1D
Entries 41
Mean −0.001021
Std Dev 0.8556

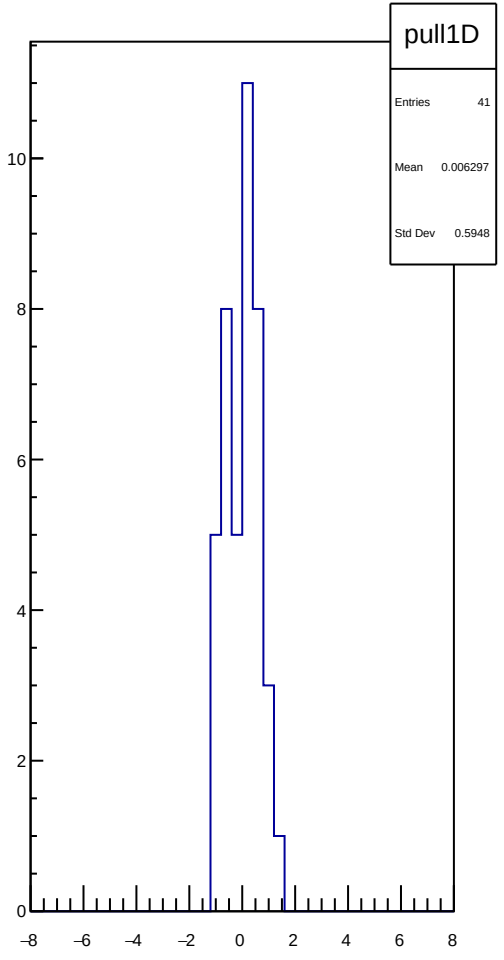

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 46.84 / 40
p0 −38.36 ± 0.1477
pull
Entries 41
Mean −40.54
Std Dev 0

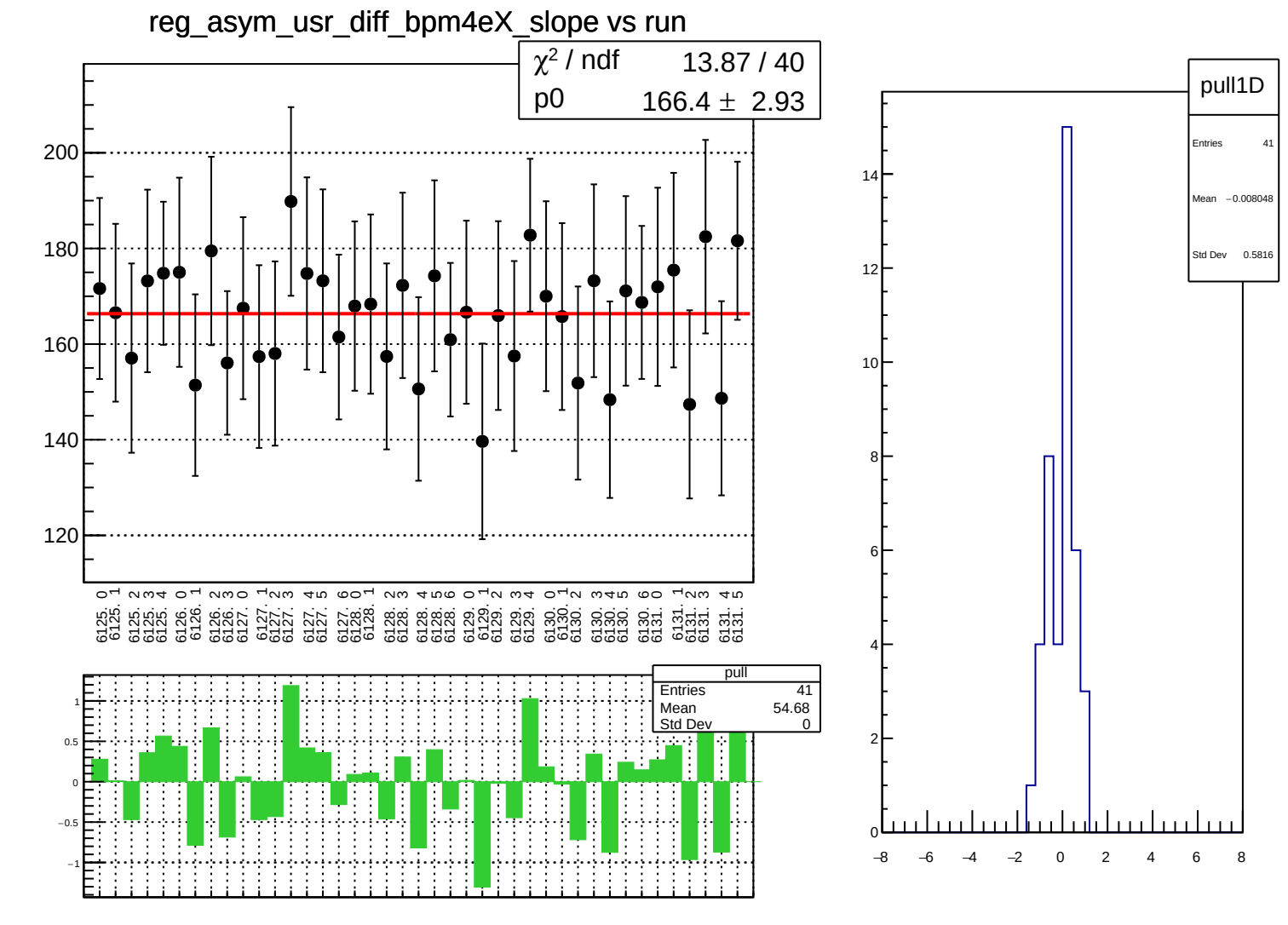

pull1D
Entries 41
Mean −0.01596
Std Dev 1.069

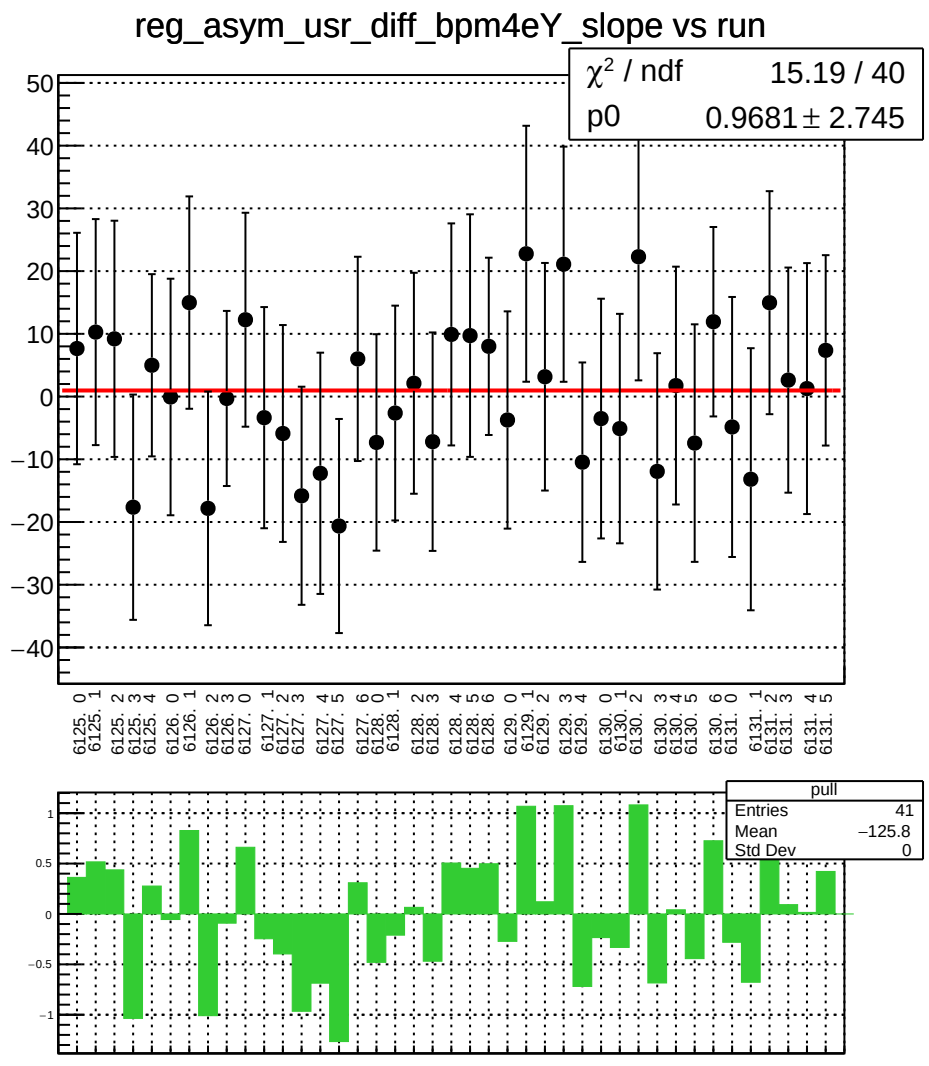

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 13.87 / 40
p0 −82.19 ± 2.405
−40
−50
−60
−70
−80
−90
−100
−110
−120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 57.76
Std Dev 0
1
0.5
0
−0.5
−1

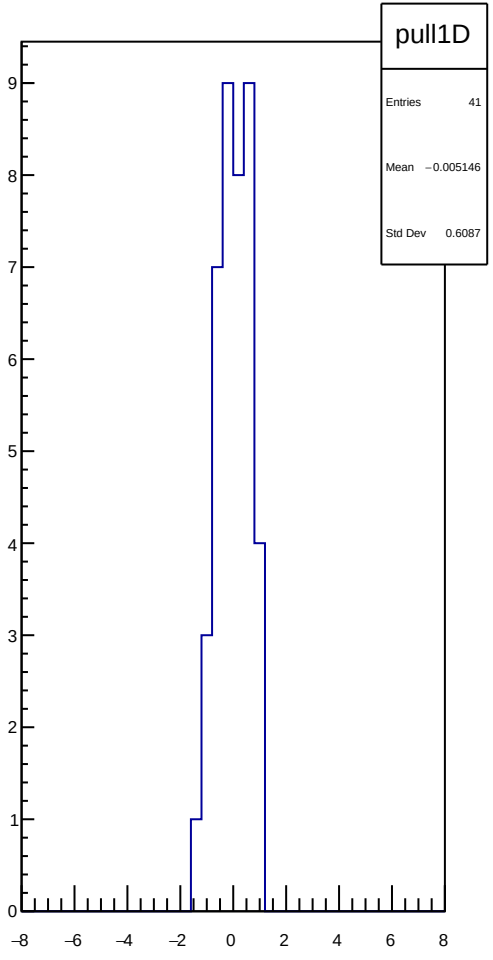

pull1D
Entries 41
Mean 0.009314
Std Dev 0.5816
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

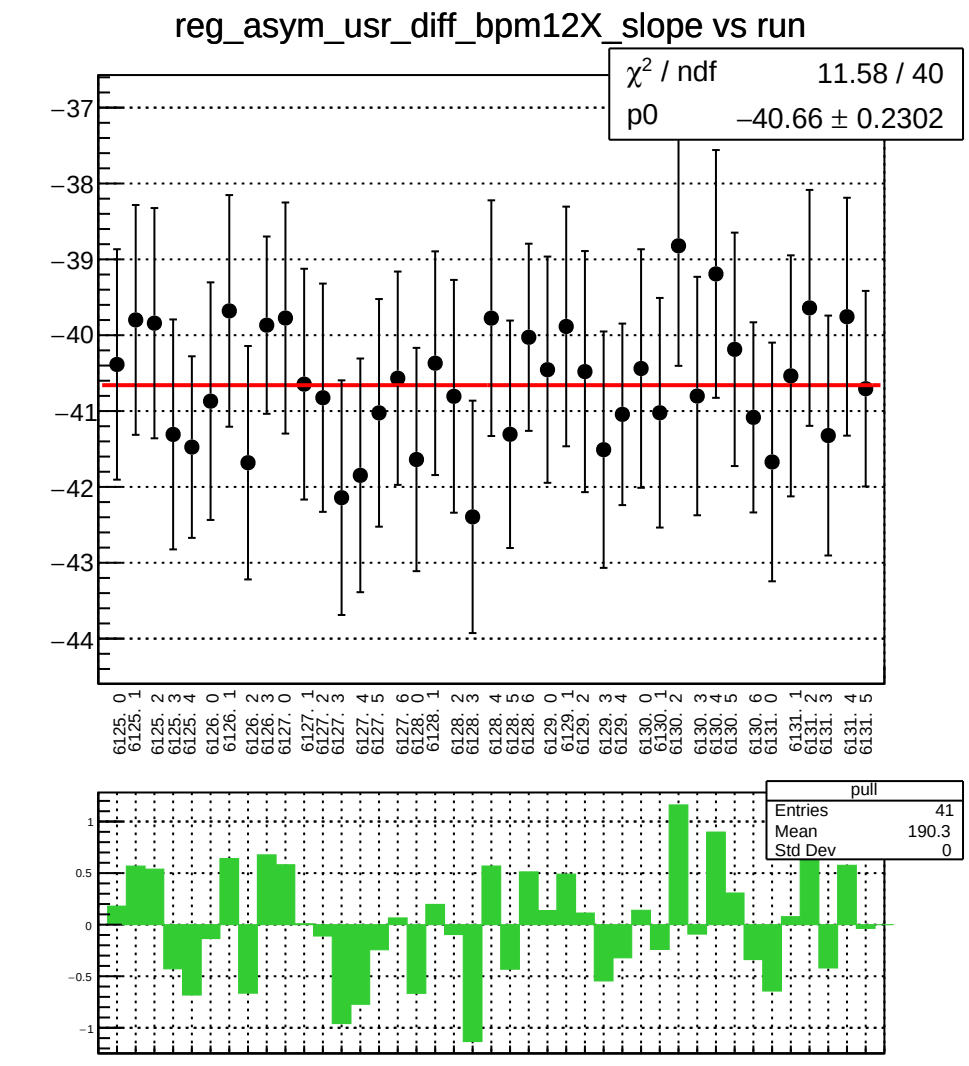

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 14.5 / 40
p0 15.02 ± 2.593
pull
Entries 41
Mean −88.13
Std Dev 0

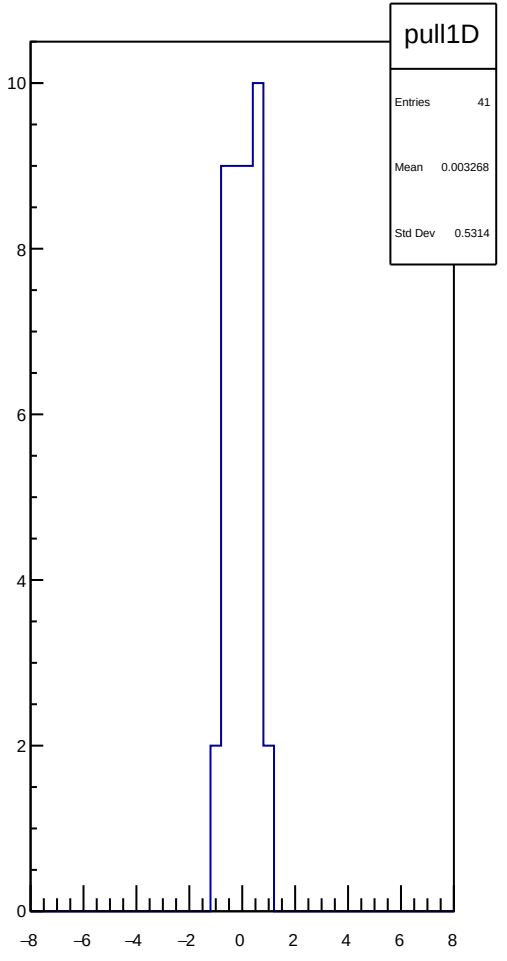

pull1D
Entries 41
Mean 0.006297
Std Dev 0.5948

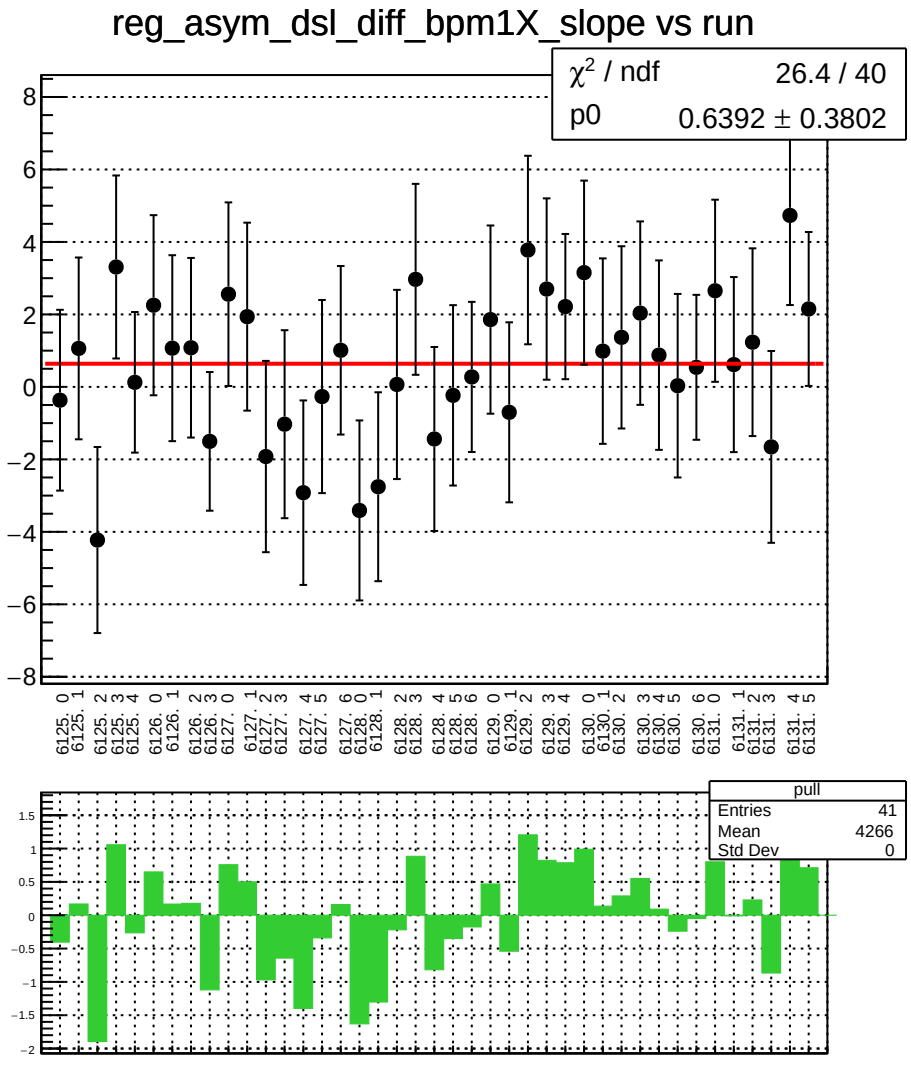

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 13.87 / 40
p0 166.4 ± 2.93
200
180
160
140
120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 54.68
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.008048
Std Dev 0.5816
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

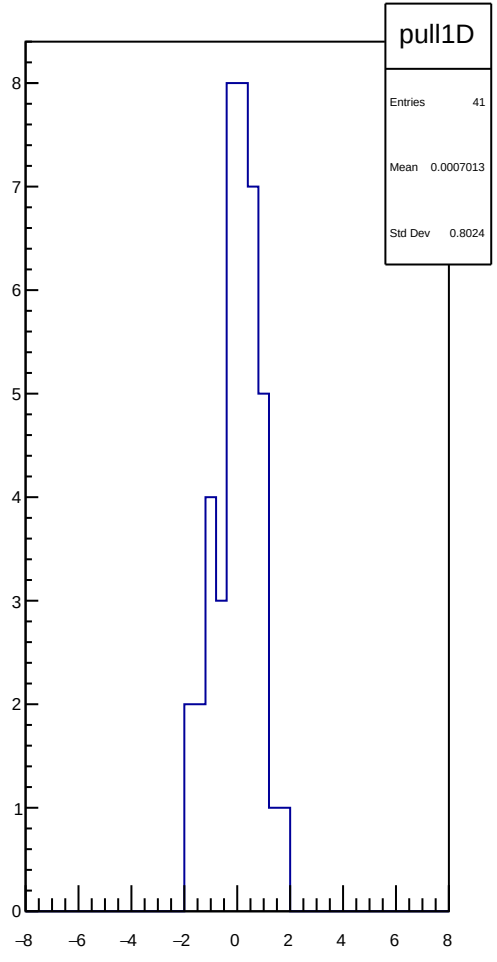

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 15.19 / 40
p0 0.9681 ± 2.745
pull
Entries 41
Mean −125.8
Std Dev 0

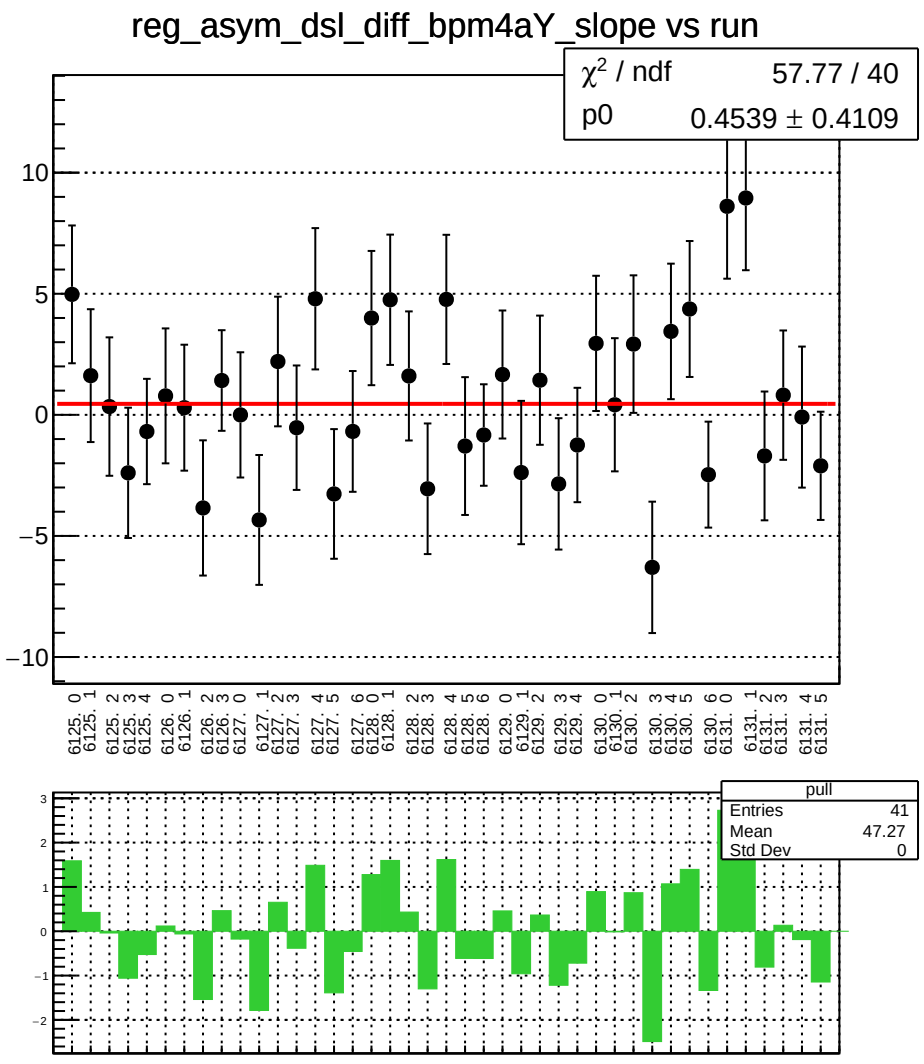

pull1D
Entries 41
Mean −0.005146
Std Dev 0.6087

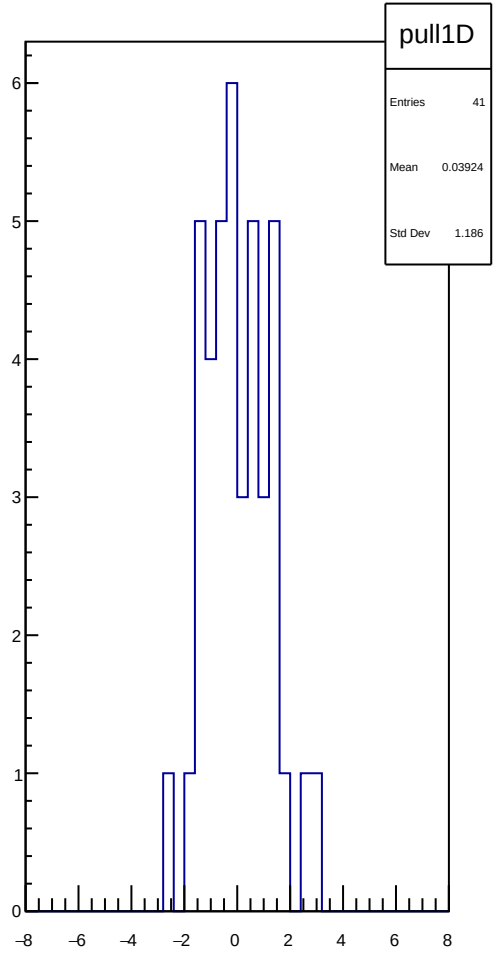

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 11.58 / 40
p0 −40.66 ± 0.2302
−37
−38
−39
−40
−41
−42
−43
−44
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 190.3
Std Dev 0
1
0.5
0
−0.5
−1

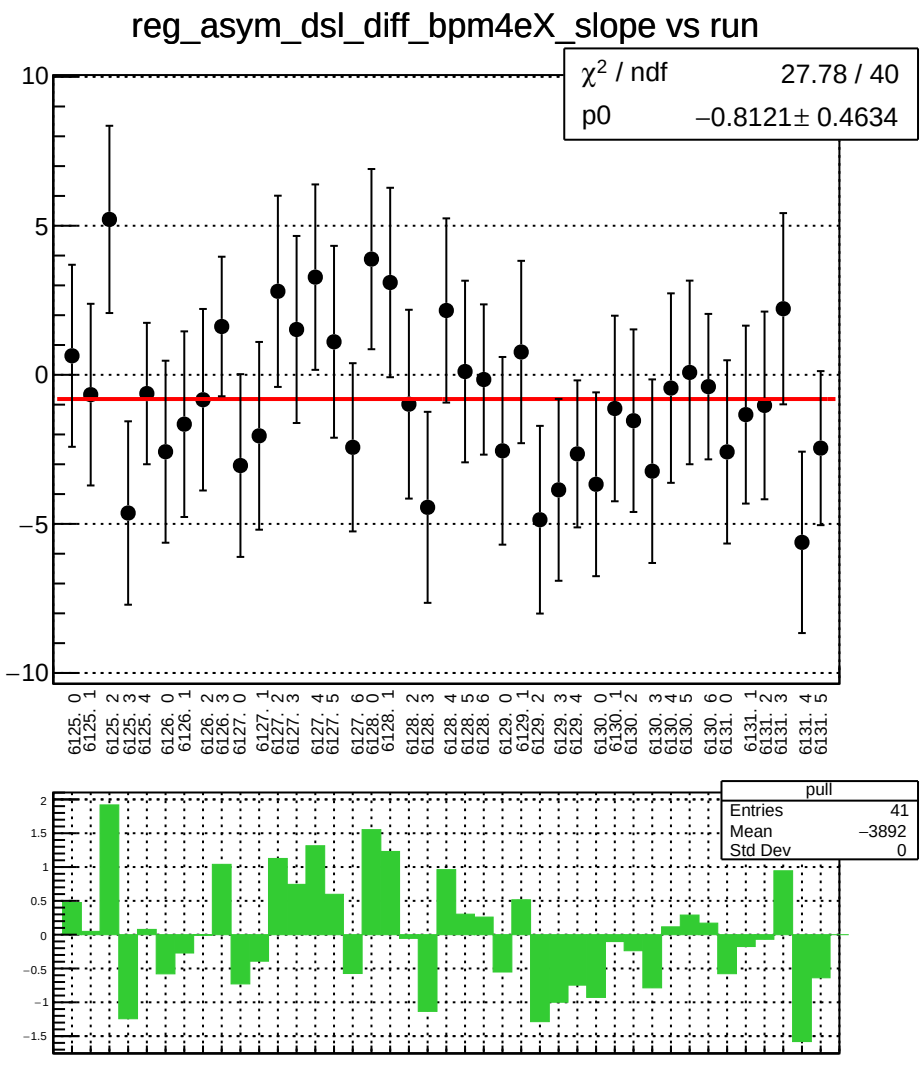

pull1D
Entries 41
Mean 0.003268
Std Dev 0.5314
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

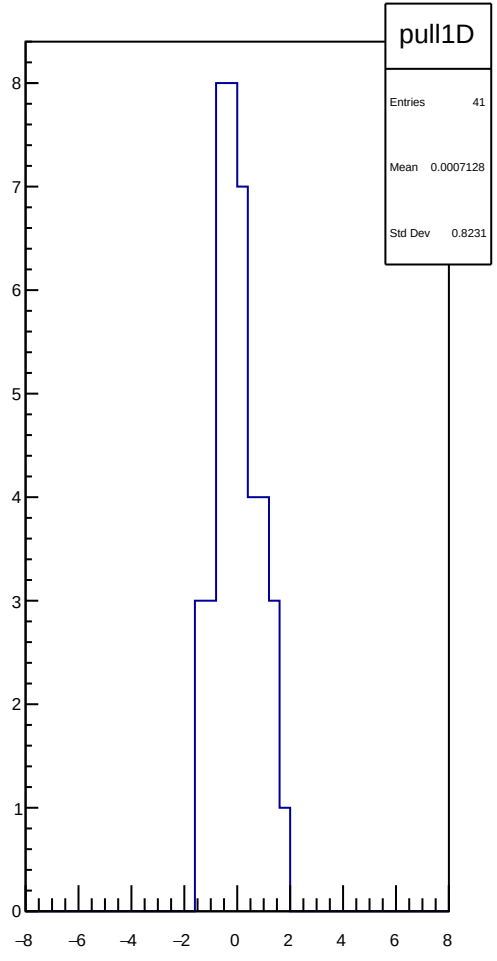

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 26.4 / 40
p0 0.6392 ± 0.3802
pull
Entries 41
Mean 4266
Std Dev 0

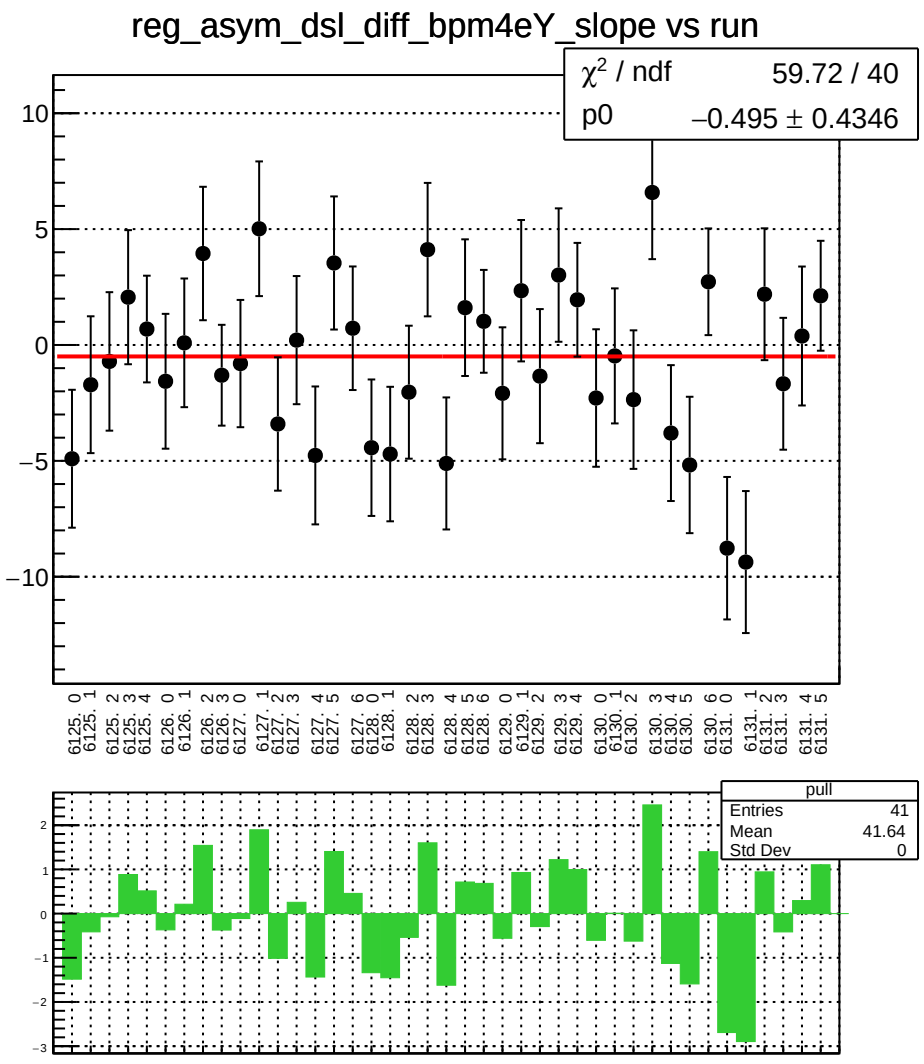

pull1D
Entries 41
Mean 0.0007013
Std Dev 0.8024

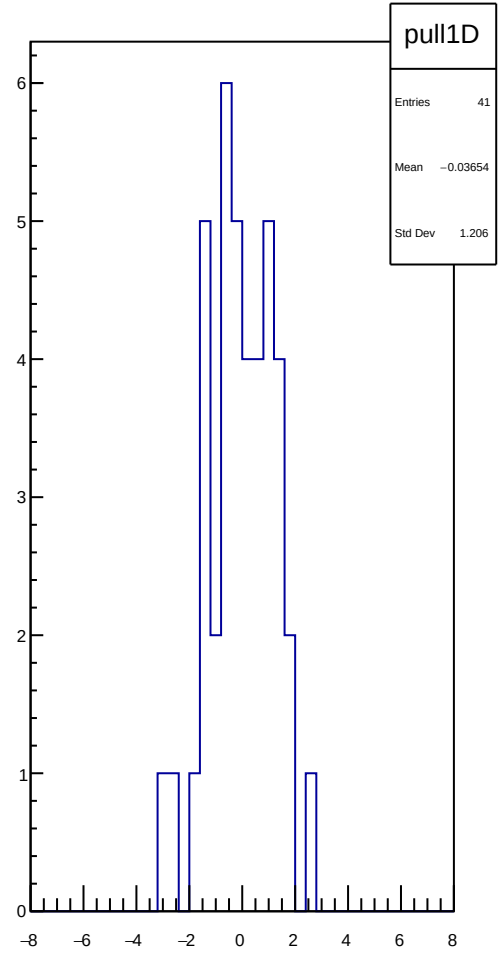

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 57.77 / 40
p0 0.4539 ± 0.4109
pull
Entries 41
Mean 47.27
Std Dev 0

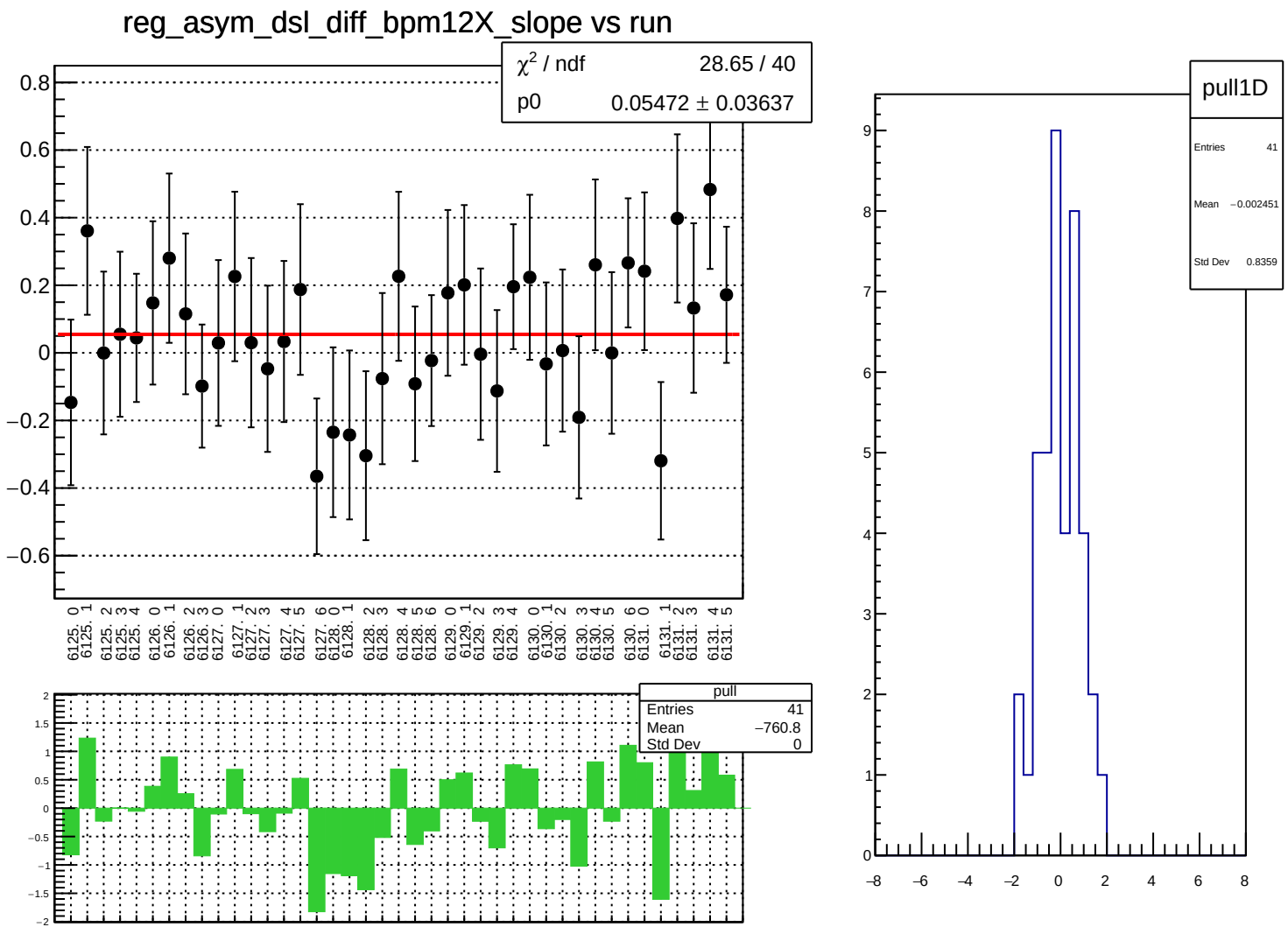

pull1D
Entries 41
Mean 0.03924
Std Dev 1.186

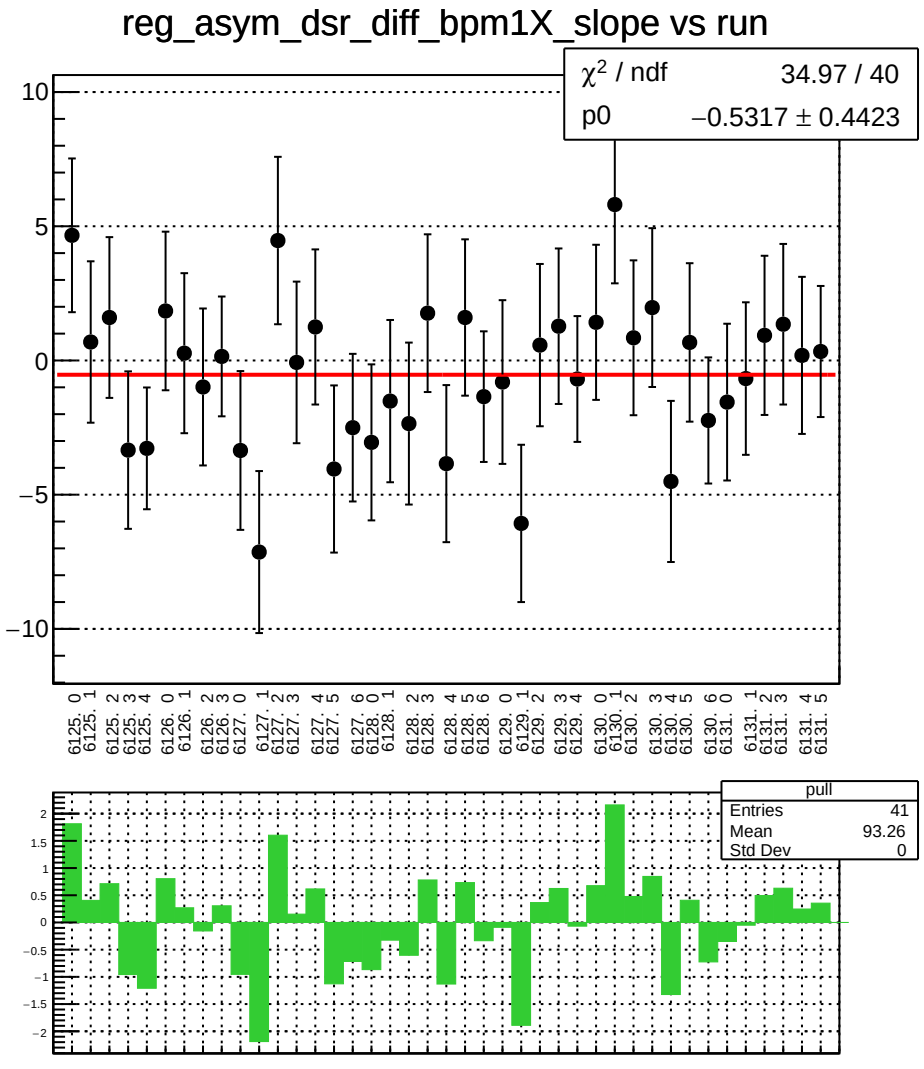

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 27.78 / 40
p0 −0.8121± 0.4634
pull
Entries 41
Mean −3892
Std Dev 0

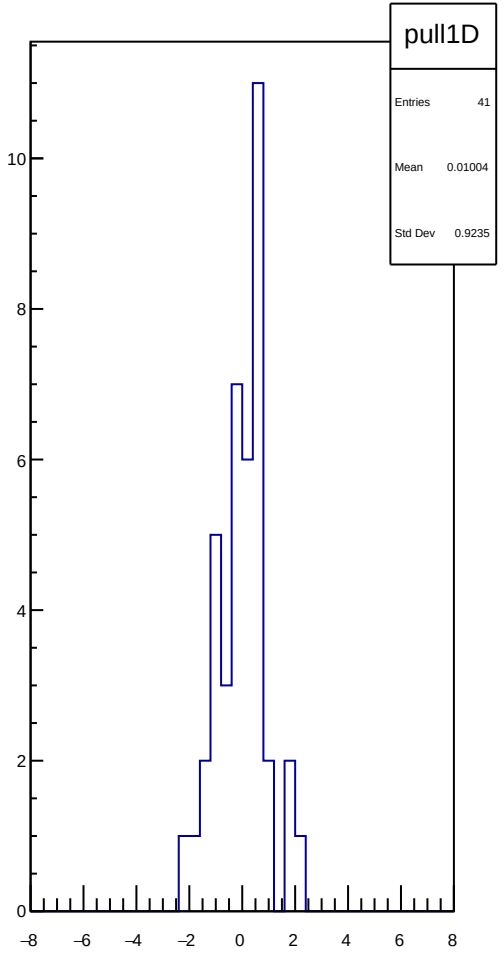

pull1D
Entries 41
Mean 0.0007128
Std Dev 0.8231

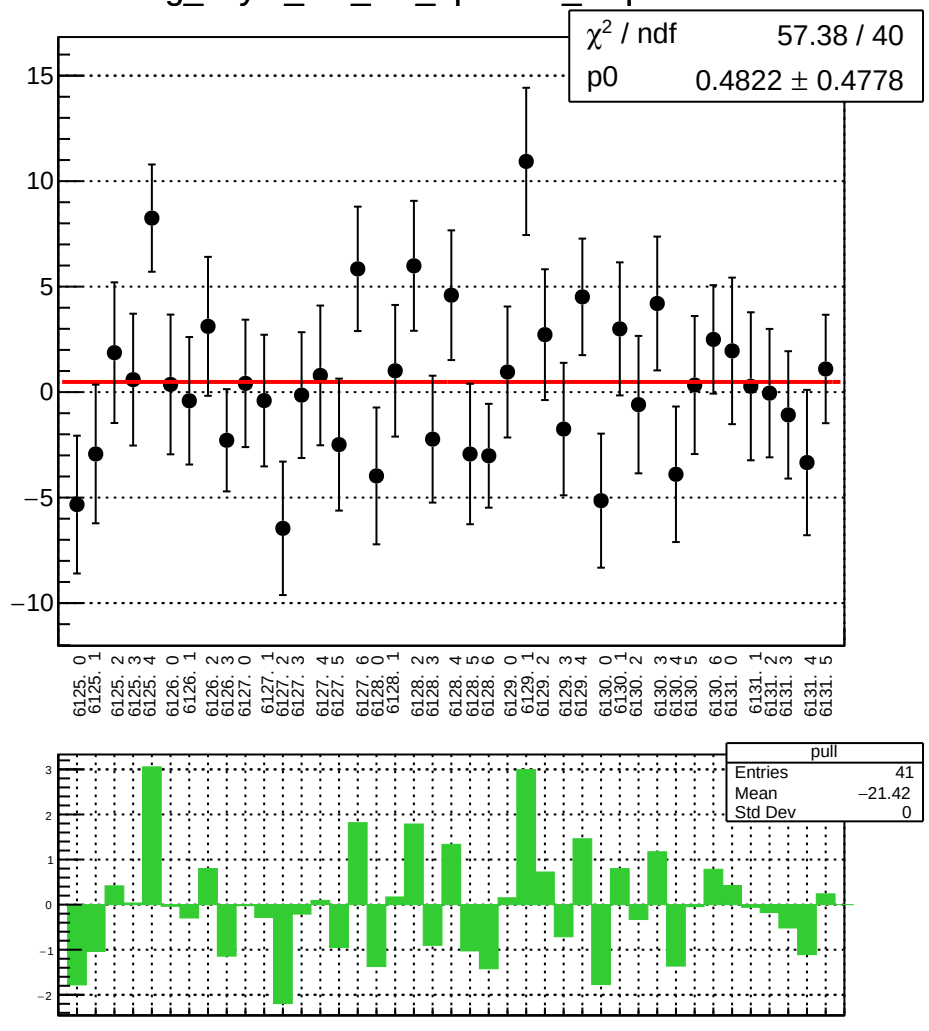

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 59.72 / 40
p0 −0.495 ± 0.4346
10
5
0
−5
−10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 41.64
Std Dev 0
2
1
0
−1
−2
−3

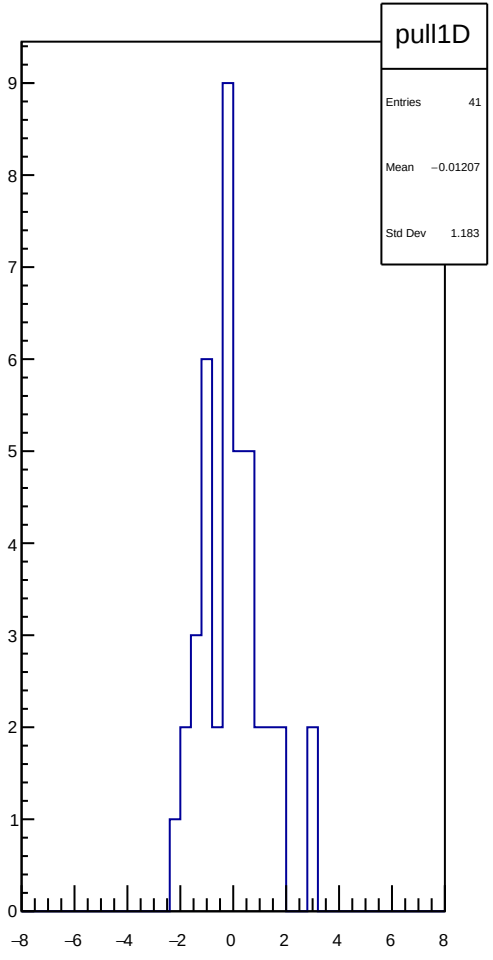

pull1D
Entries 41
Mean −0.03654
Std Dev 1.206
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

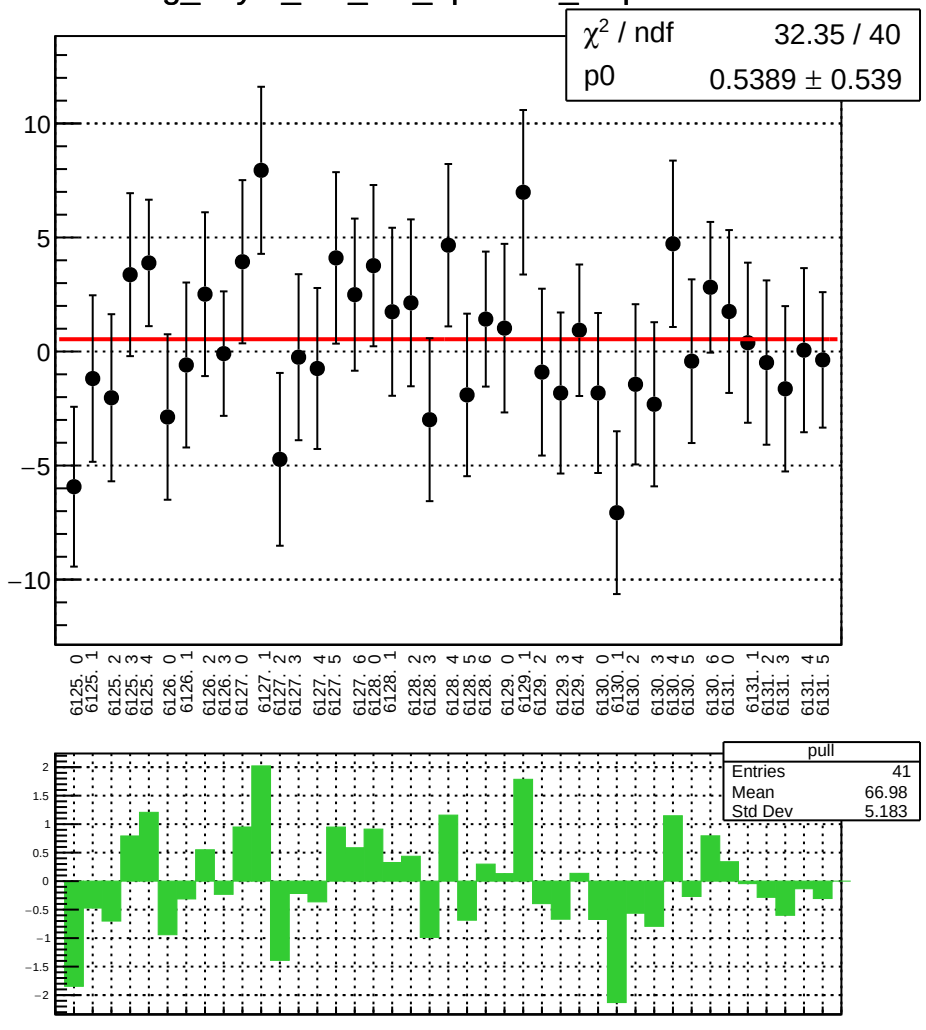

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 28.65 / 40
p0 0.05472 ± 0.03637
pull
Entries 41
Mean −760.8
Std Dev 0
pull1D
Entries 41
Mean −0.002451
Std Dev 0.8359

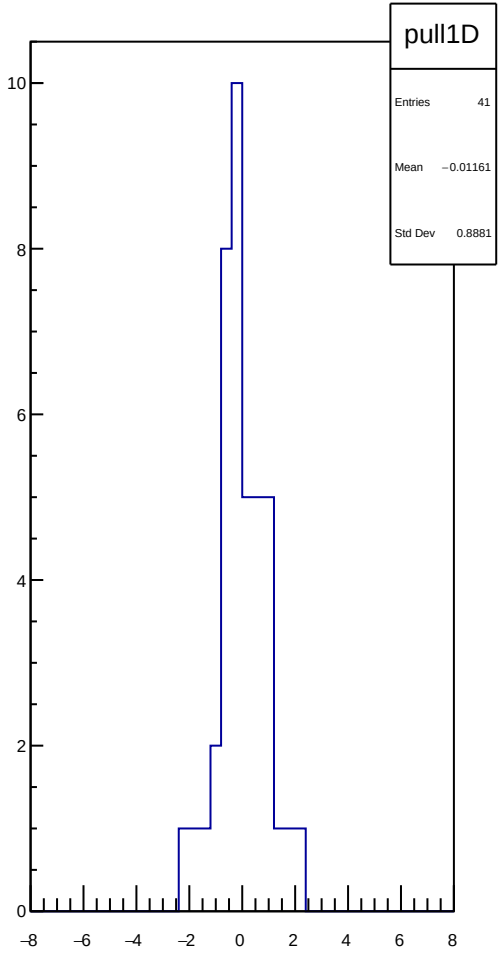

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 34.97 / 40
p0 −0.5317 ± 0.4423
pull
Entries 41
Mean 93.26
Std Dev 0

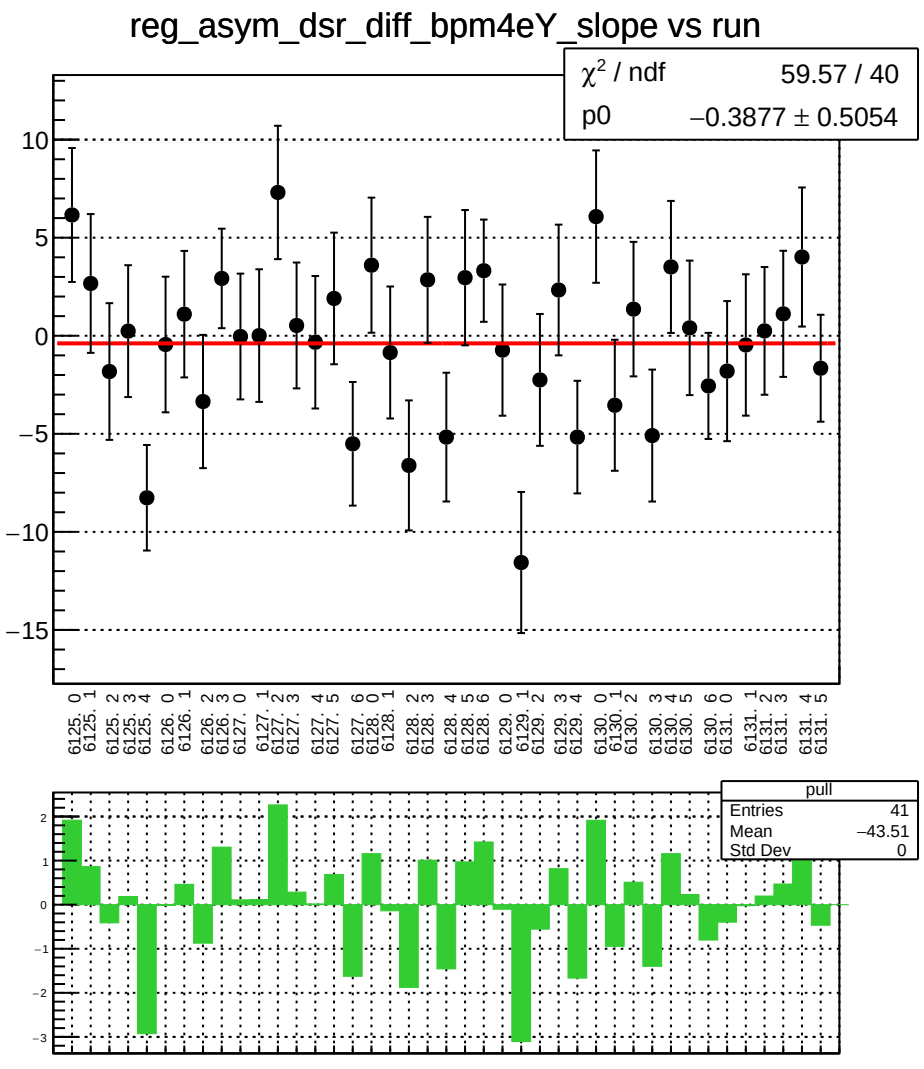

pull1D
Entries 41
Mean 0.01004
Std Dev 0.9235

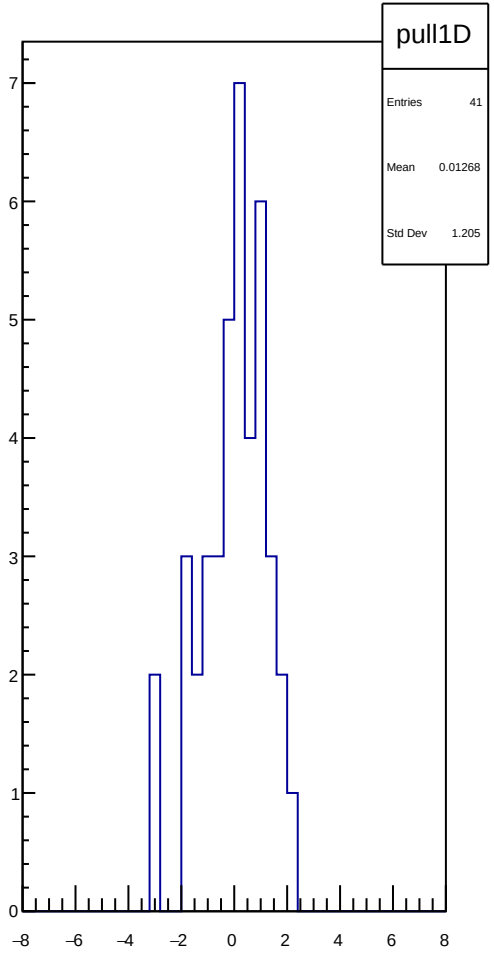

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 57.38 / 40
p0 0.4822 ± 0.4778
pull
Entries 41
Mean −21.42
Std Dev 0

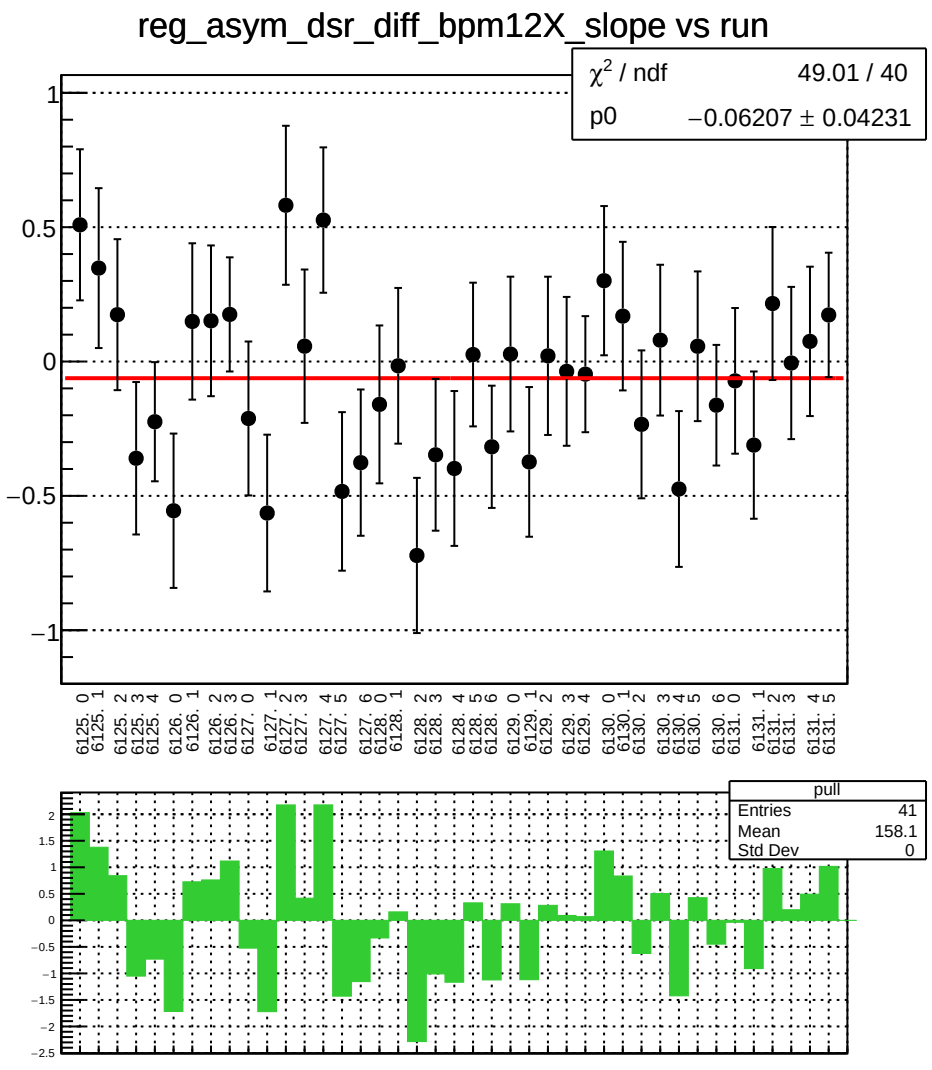

pull1D
Entries 41
Mean −0.01207
Std Dev 1.183

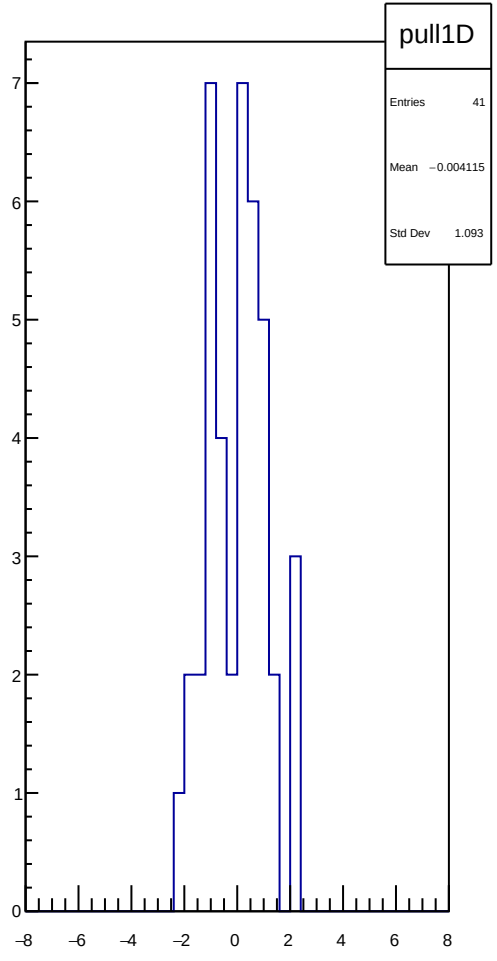

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 32.35 / 40
p0 0.5389 ± 0.539
pull
Entries 41
Mean 66.98
Std Dev 5.183

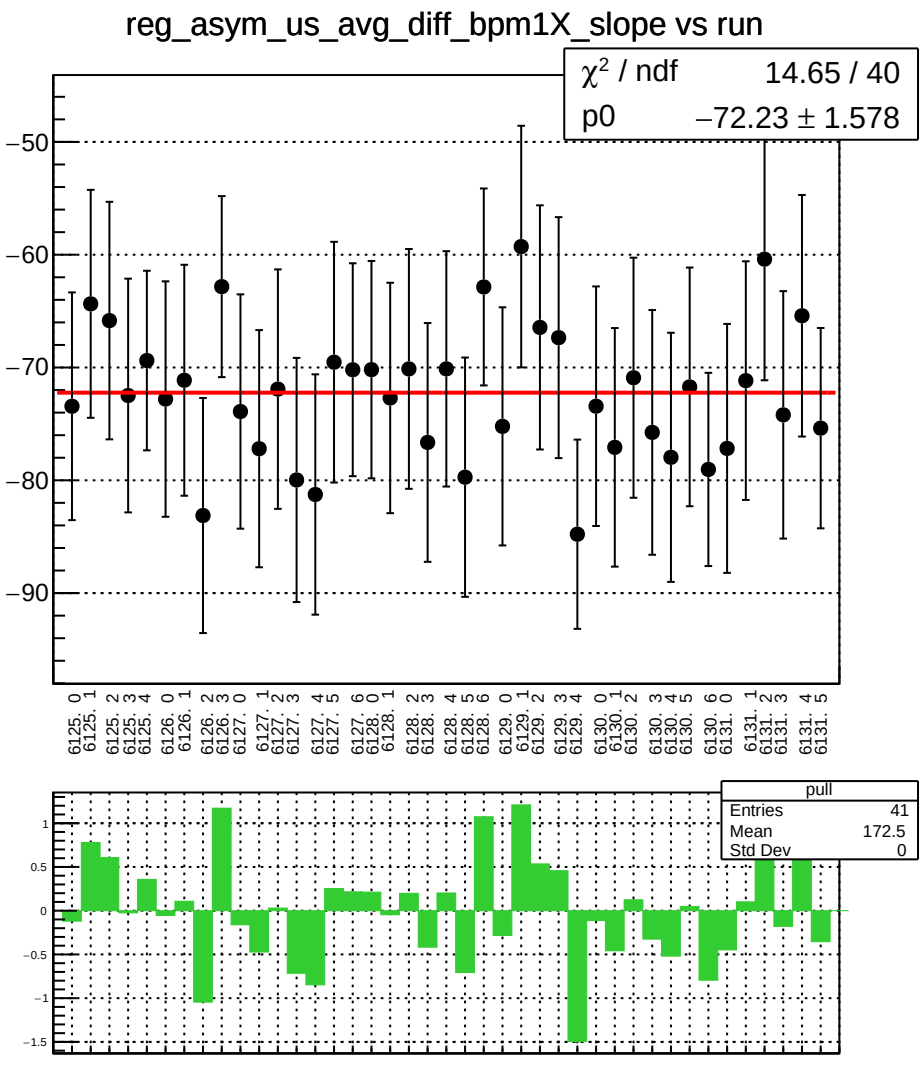

pull1D
Entries 41
Mean −0.01161
Std Dev 0.8881

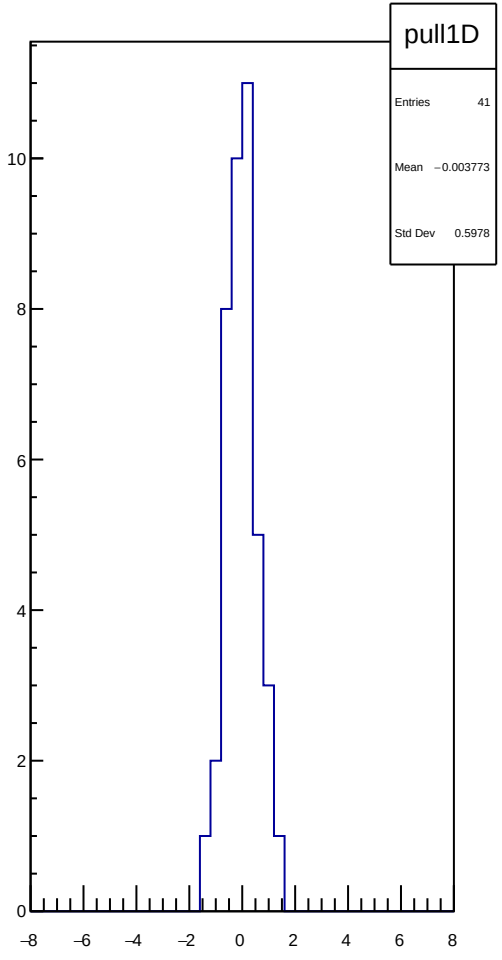

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 59.57 / 40
p0 −0.3877 ± 0.5054
pull
Entries 41
Mean −43.51
Std Dev 0

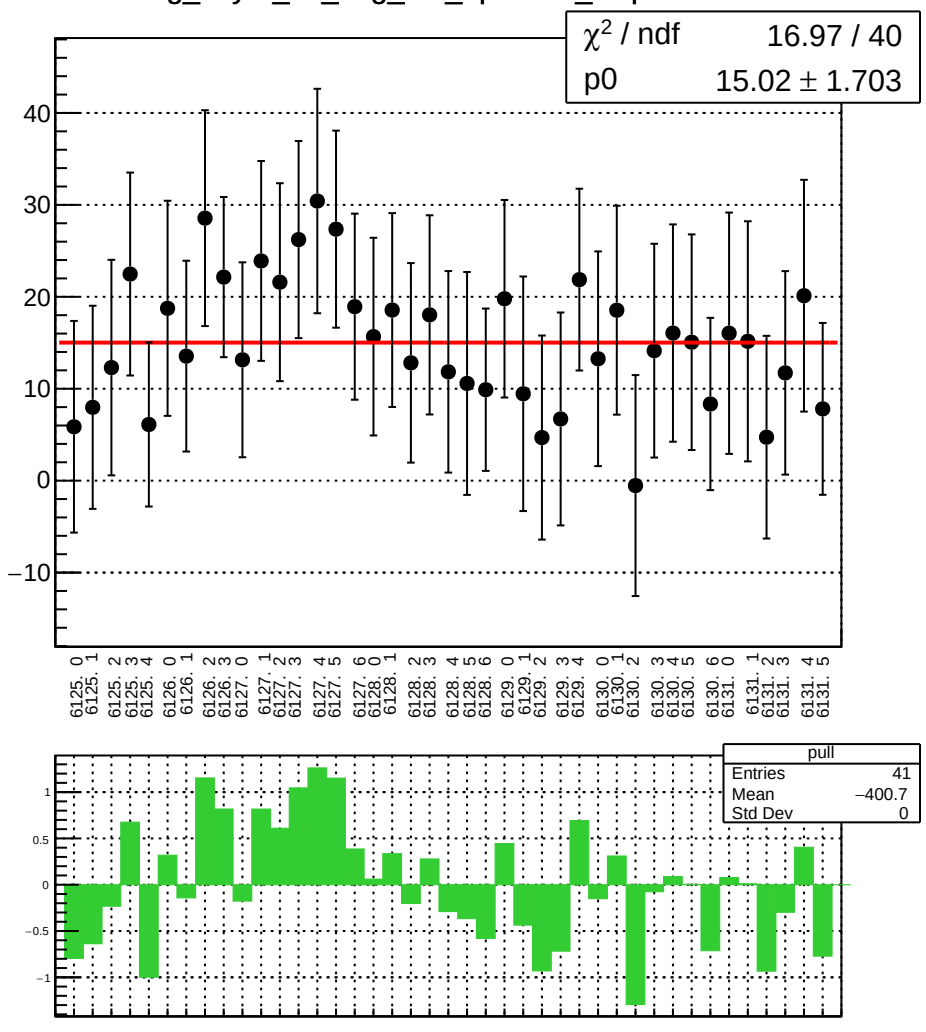

pull1D
Entries 41
Mean 0.01268
Std Dev 1.205

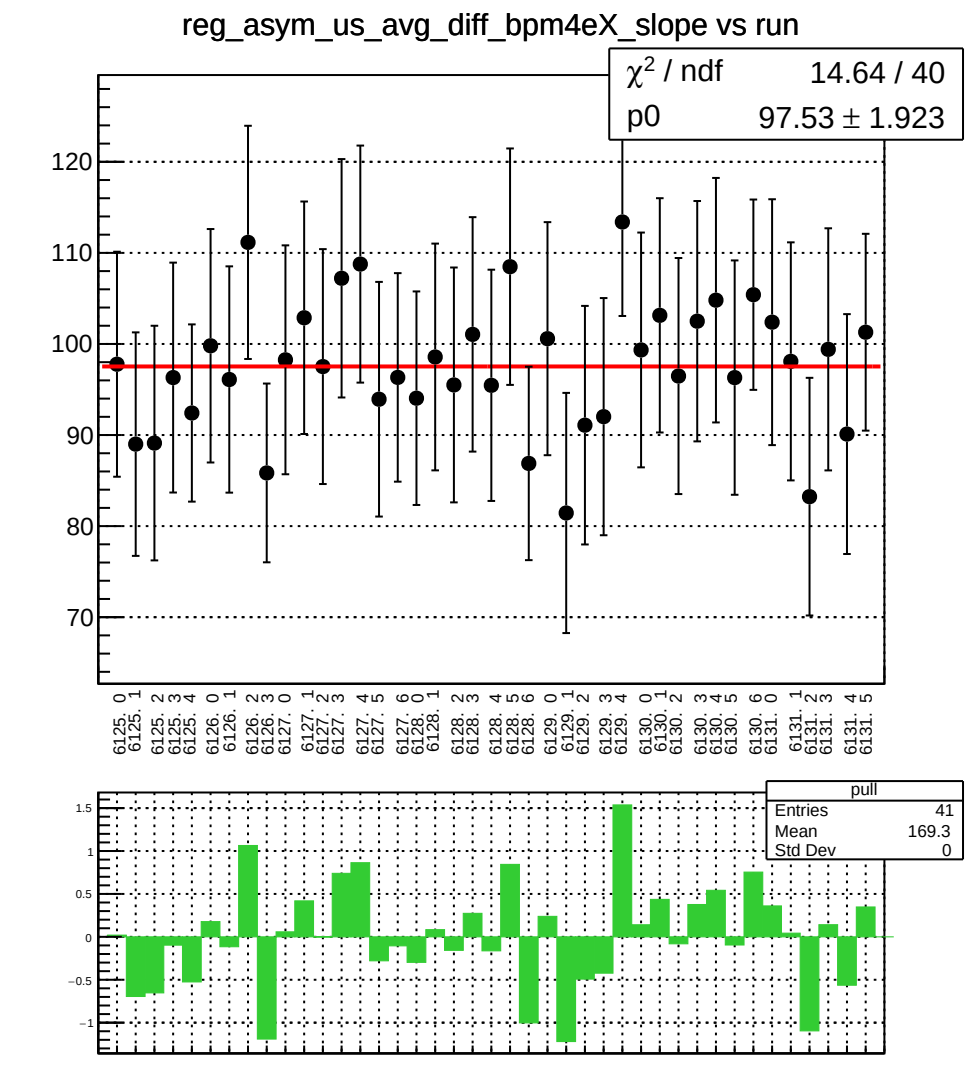

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 49.01 / 40
p0 −0.06207 ± 0.04231
pull
Entries 41
Mean 158.1
Std Dev 0

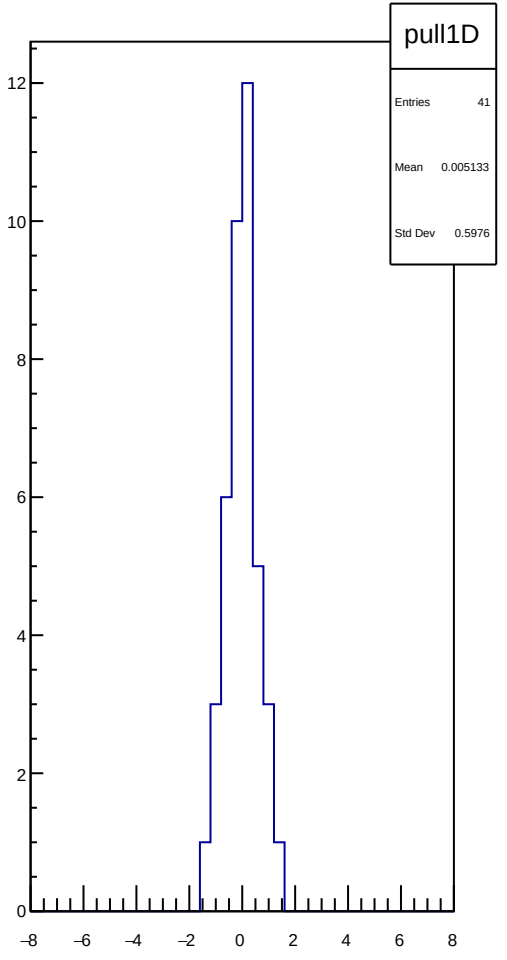

pull1D
Entries 41
Mean −0.004115
Std Dev 1.093

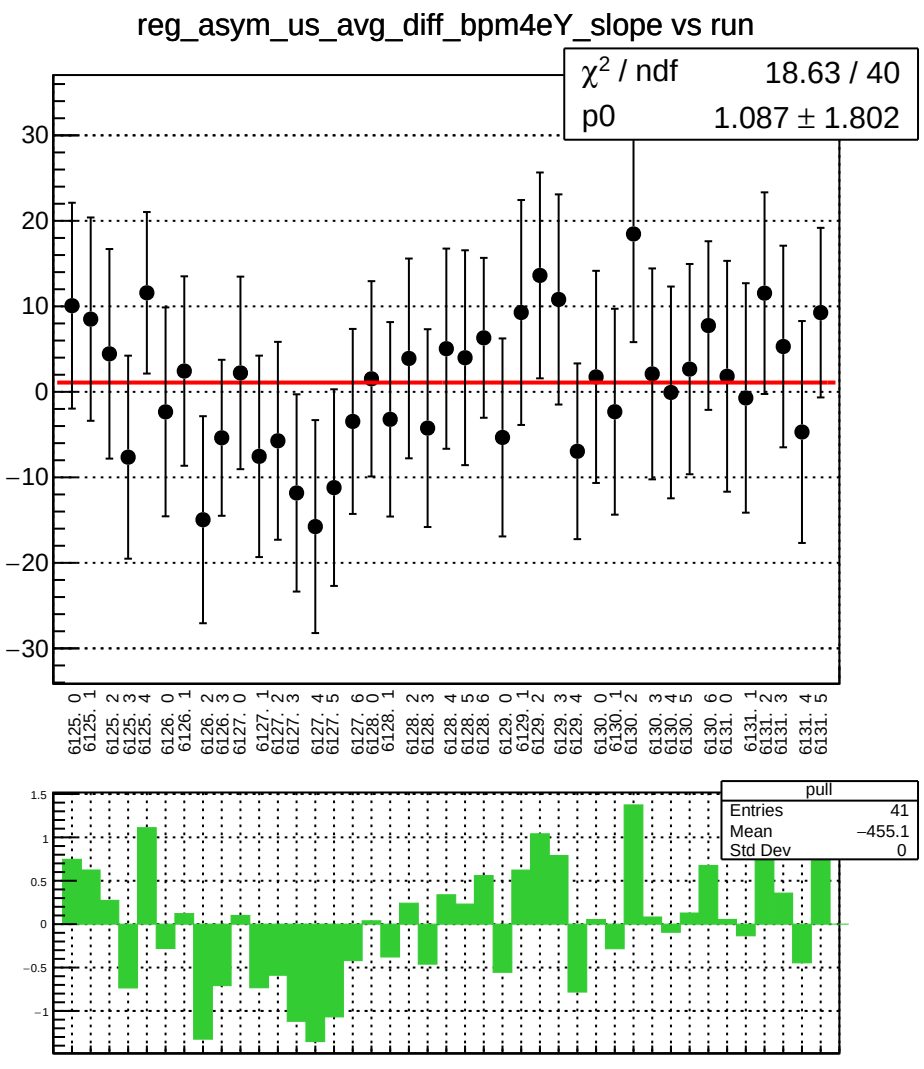

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 14.65 / 40
p0 −72.23 ± 1.578
pull
Entries 41
Mean 172.5
Std Dev 0

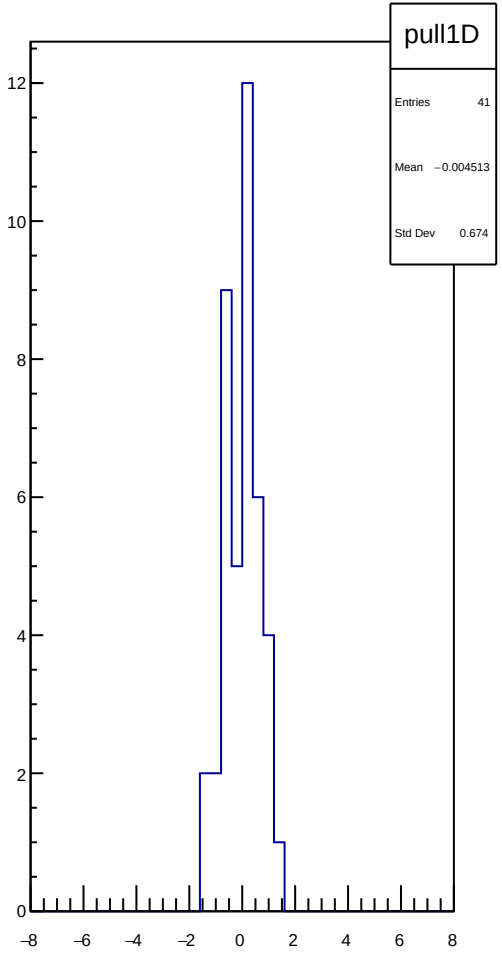

pull1D
Entries 41
Mean −0.003773
Std Dev 0.5978

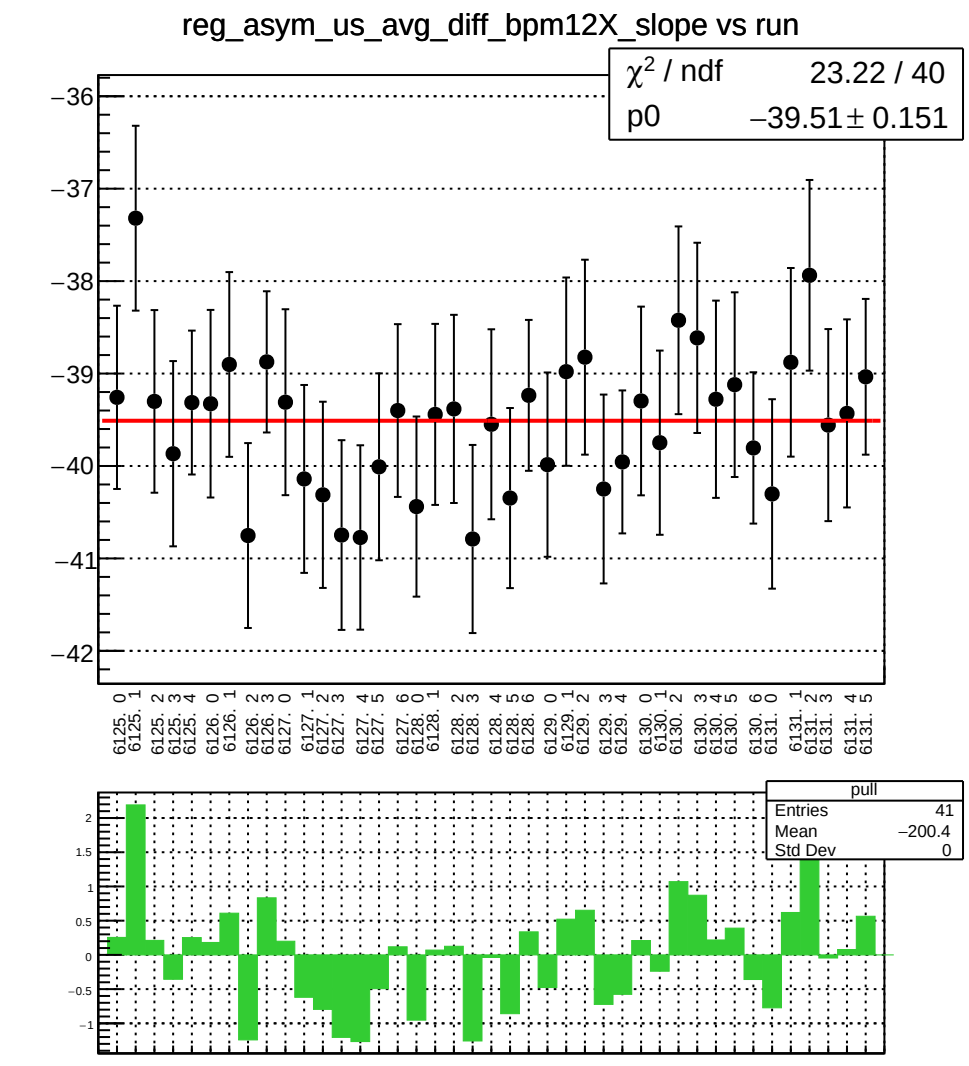

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.97 / 40
p0 15.02 ± 1.703
40
30
20
10
0
−10
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −400.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.004895
Std Dev 0.6434
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

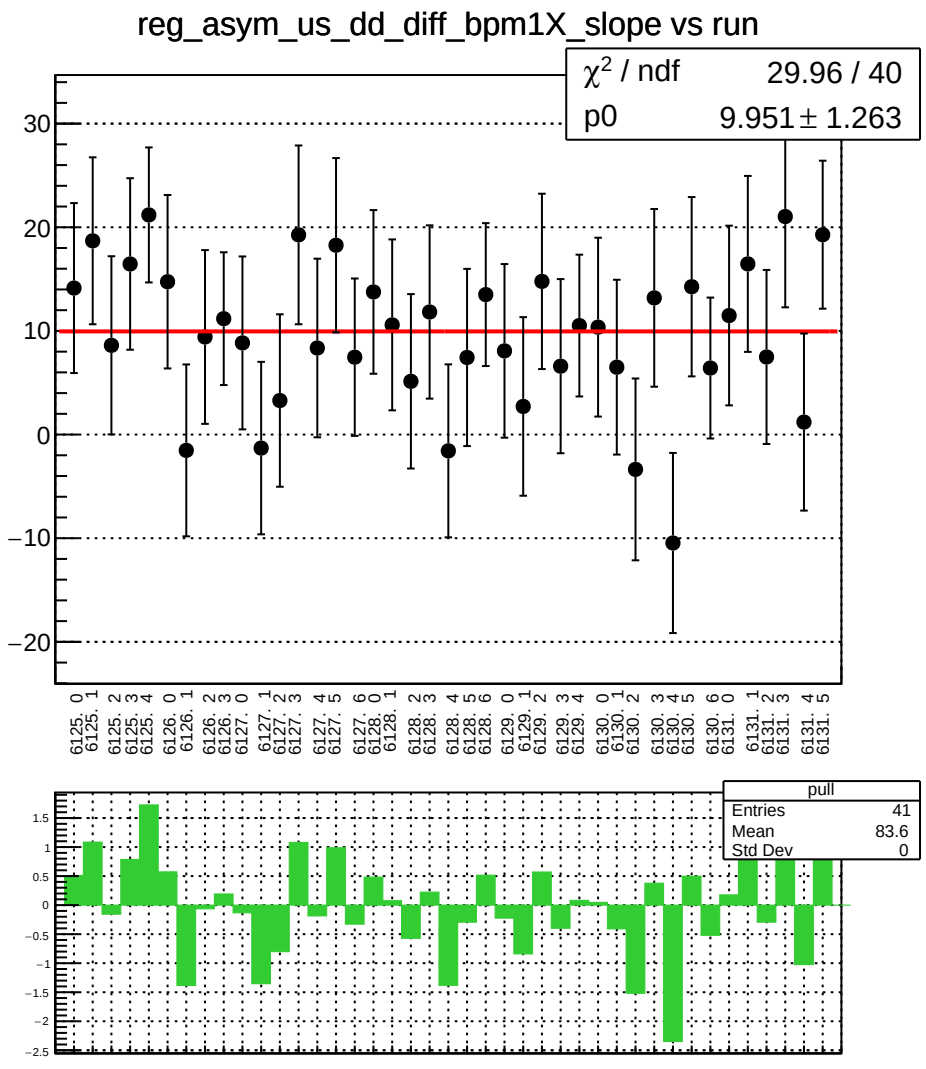

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.64 / 40
p0 97.53 ± 1.923
120
110
100
90
80
70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 169.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1

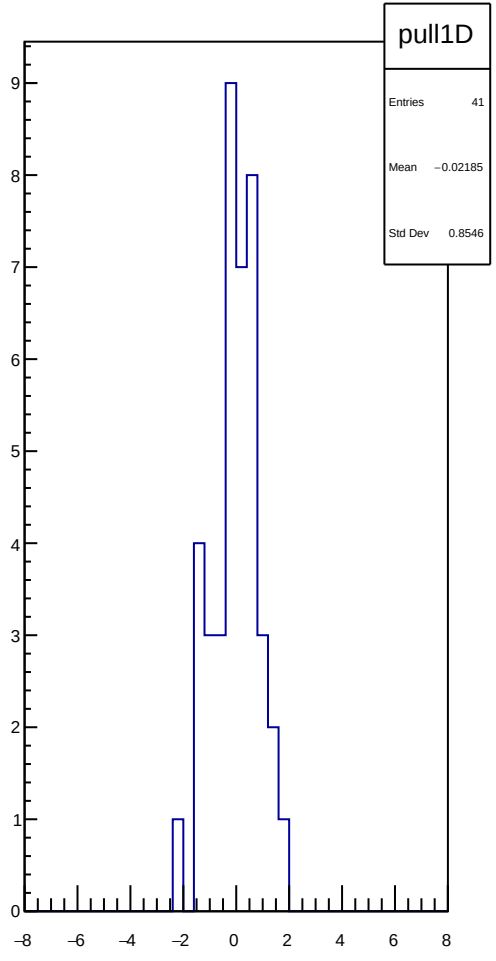

pull1D
Entries 41
Mean 0.005133
Std Dev 0.5976
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

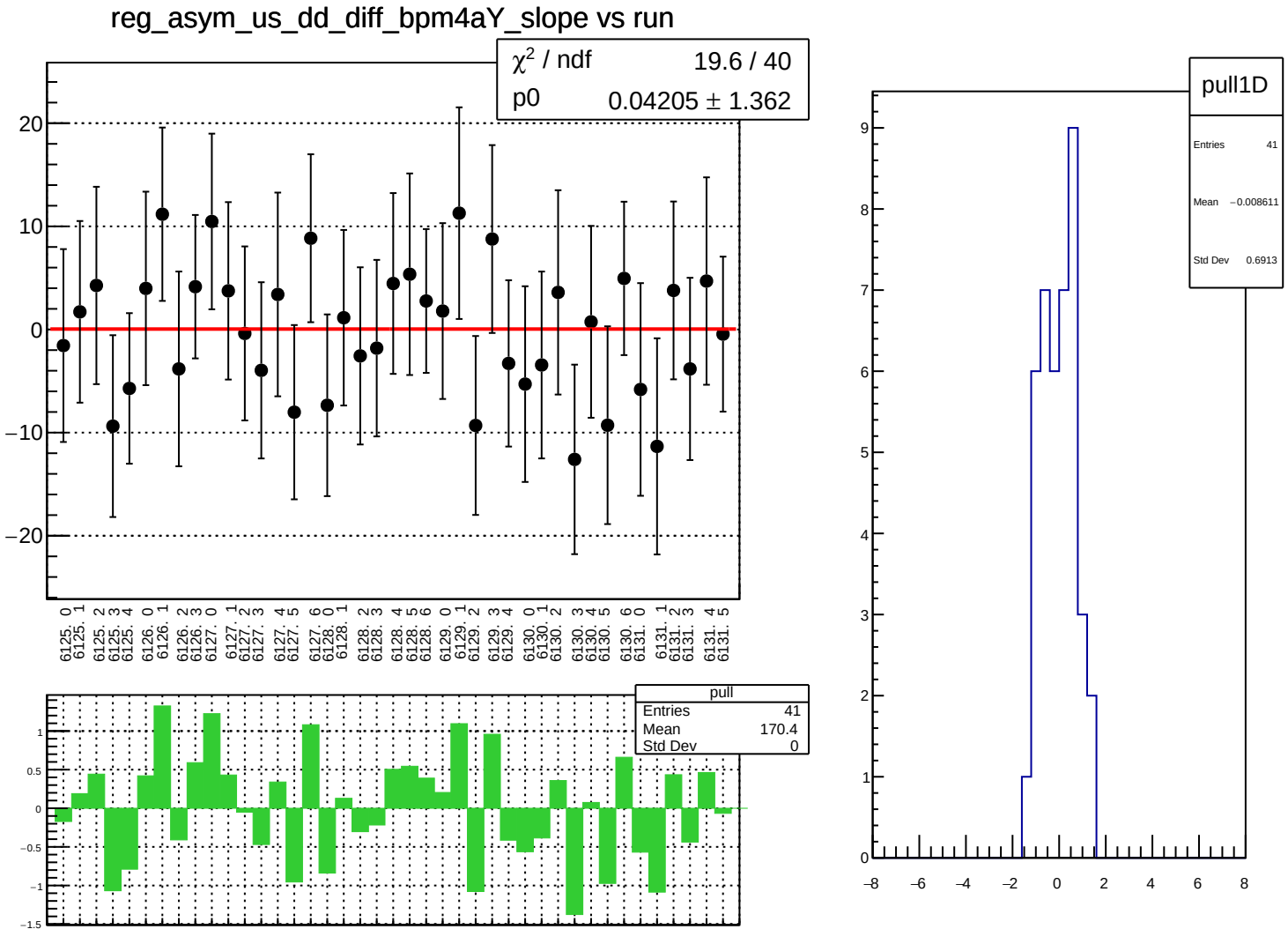

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.63 / 40
p0 1.087 ± 1.802
30
20
10
0
−10
−20
−30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −455.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1

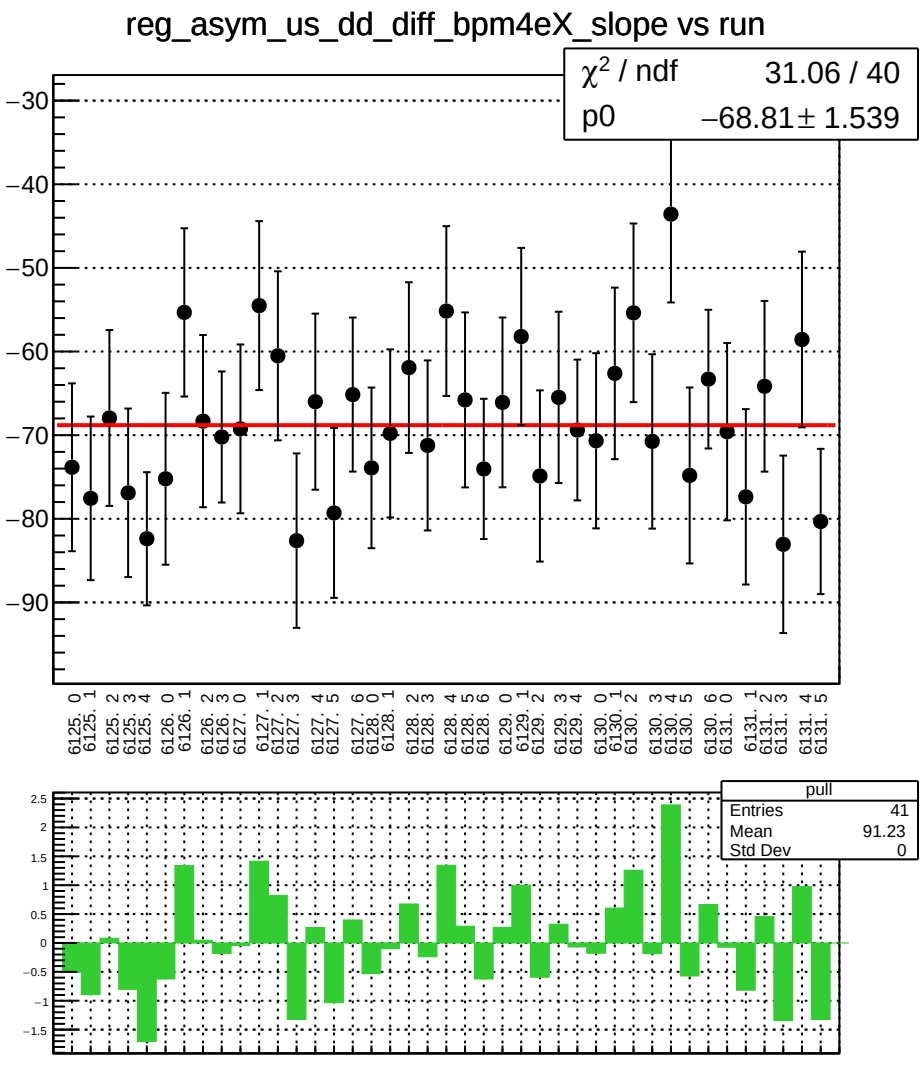

pull1D
Entries 41
Mean −0.004513
Std Dev 0.674
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

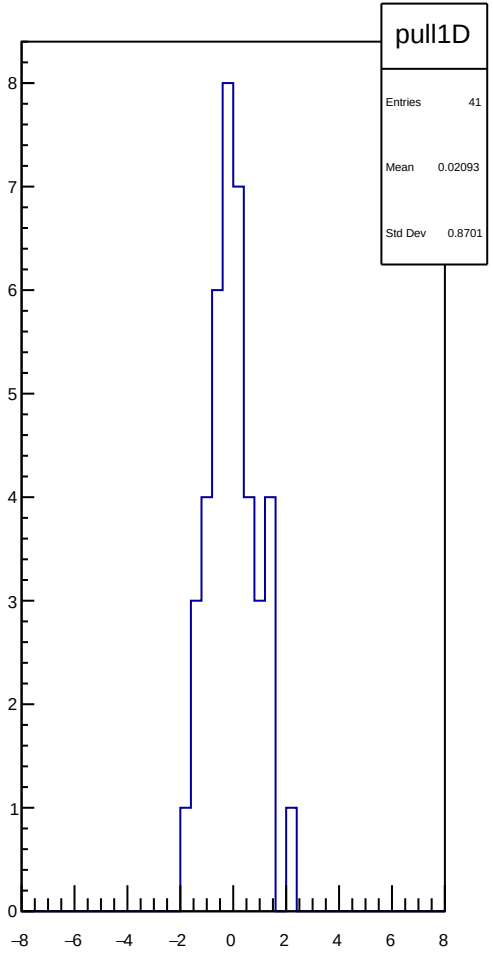

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 23.22 / 40
p0 −39.51 ± 0.151
−36
−37
−38
−39
−40
−41
−42
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −200.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.004088
Std Dev 0.7526
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

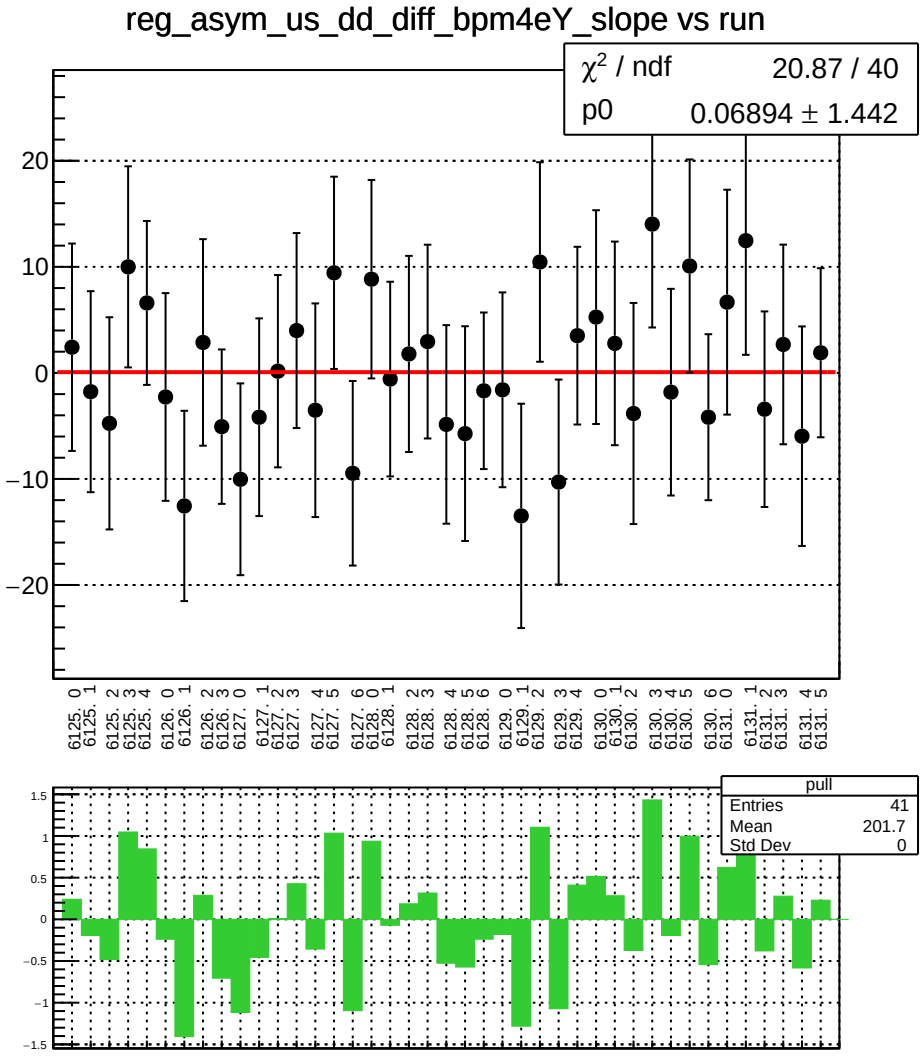

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 29.96 / 40
p0 9.951 ± 1.263
pull
Entries 41
Mean 83.6
Std Dev 0

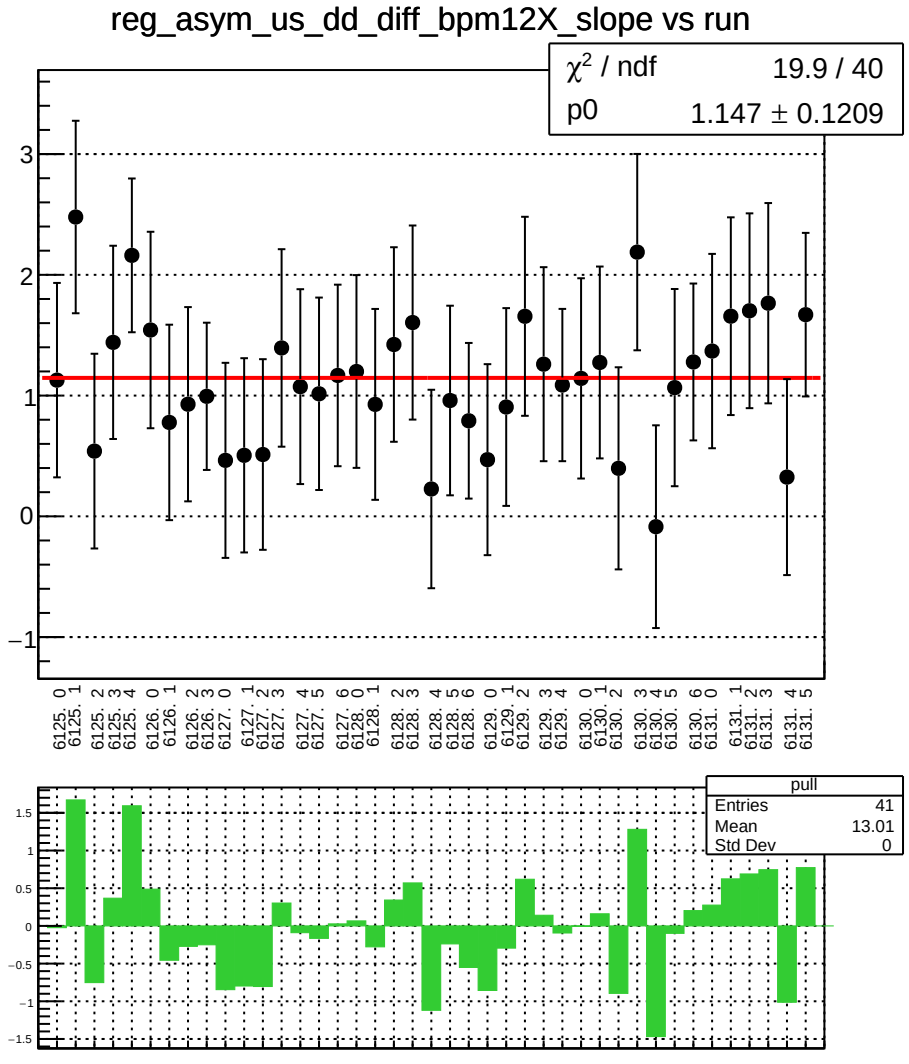

pull1D
Entries 41
Mean −0.02185
Std Dev 0.8546

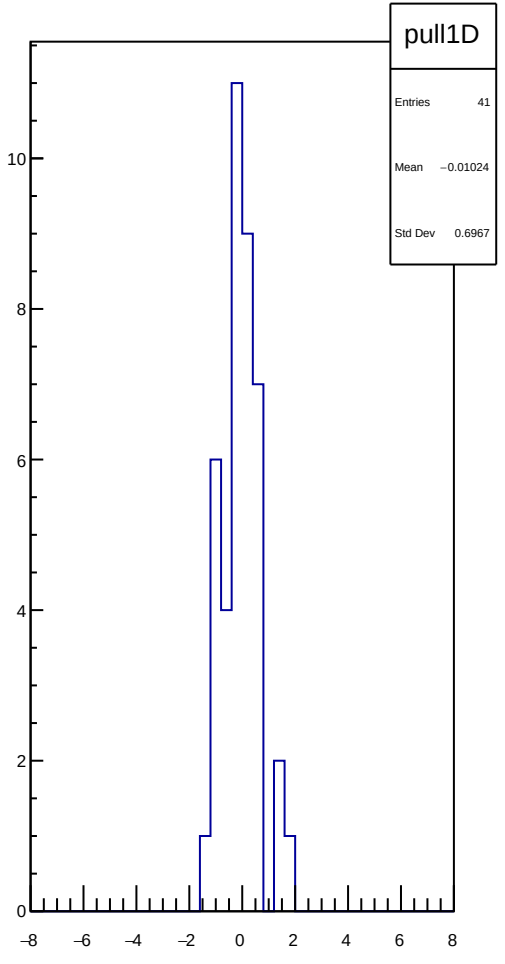

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.6 / 40
p0 0.04205 ± 1.362
20
10
0
−10
−20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 170.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.008611
Std Dev 0.6913
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

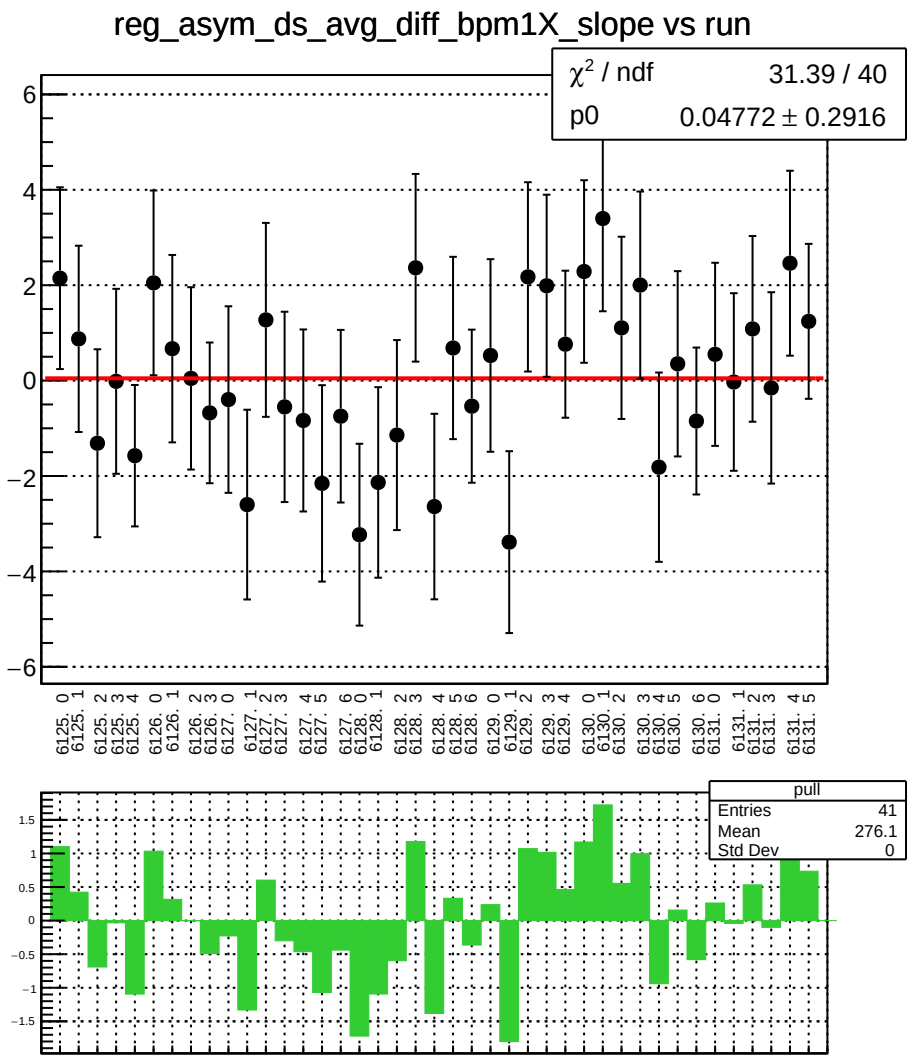

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.06 / 40
p0 −68.81± 1.539
−30
−40
−50
−60
−70
−80
−90
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 91.23
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

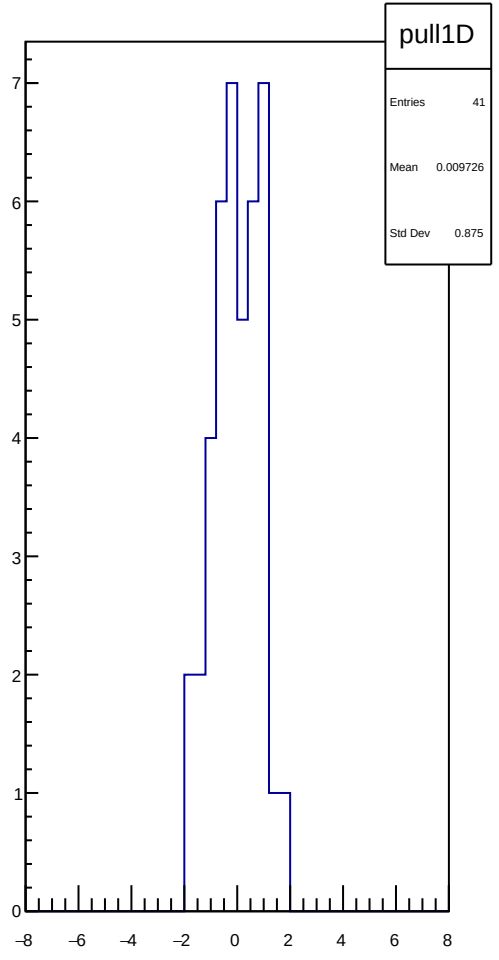

pull1D
Entries 41
Mean 0.02093
Std Dev 0.8701
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

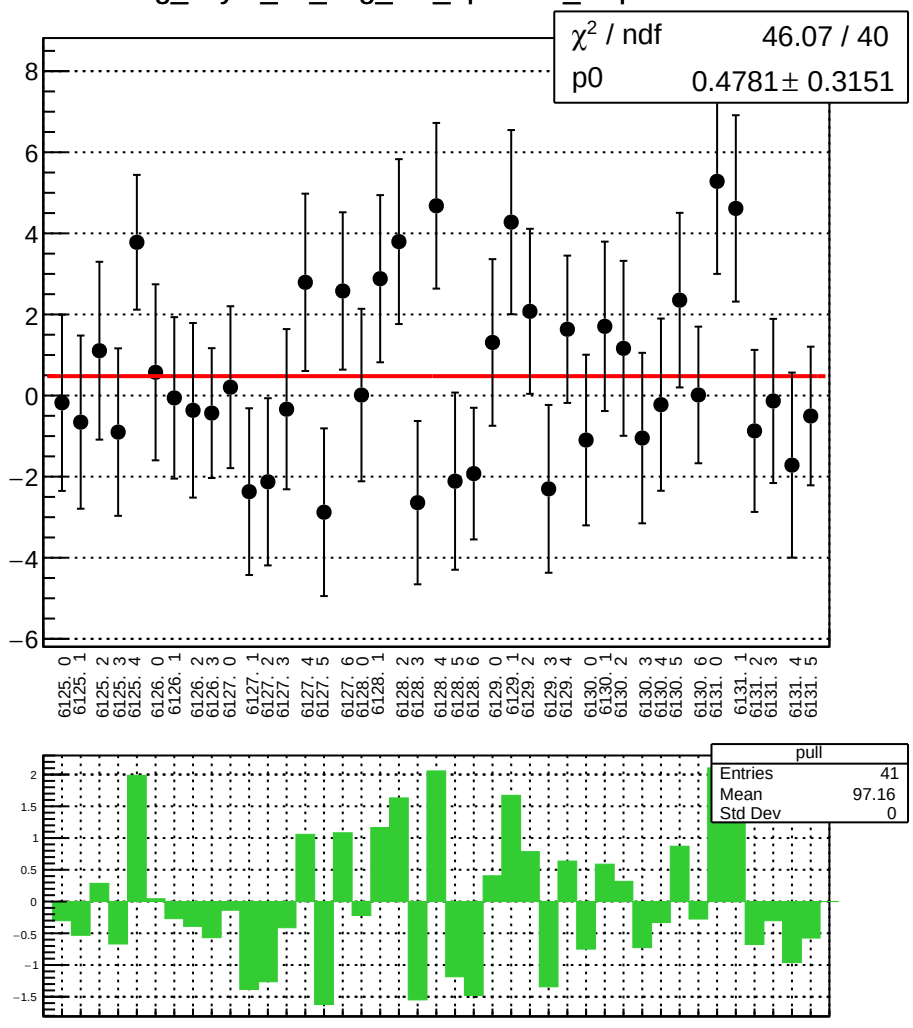

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.87 / 40
p0 0.06894 ± 1.442
20
10
0
−10
−20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 201.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.006986
Std Dev 0.7134
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

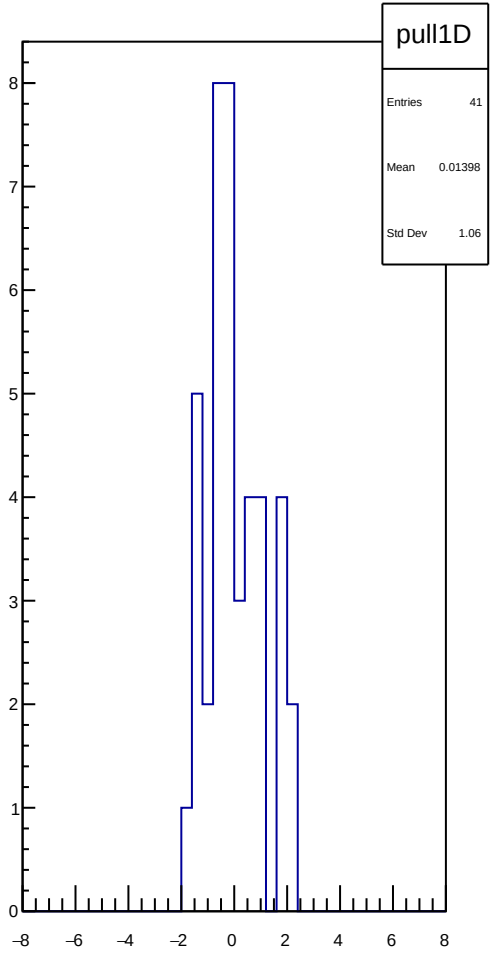

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 19.9 / 40
p0 1.147 ± 0.1209
pull
Entries 41
Mean 13.01
Std Dev 0

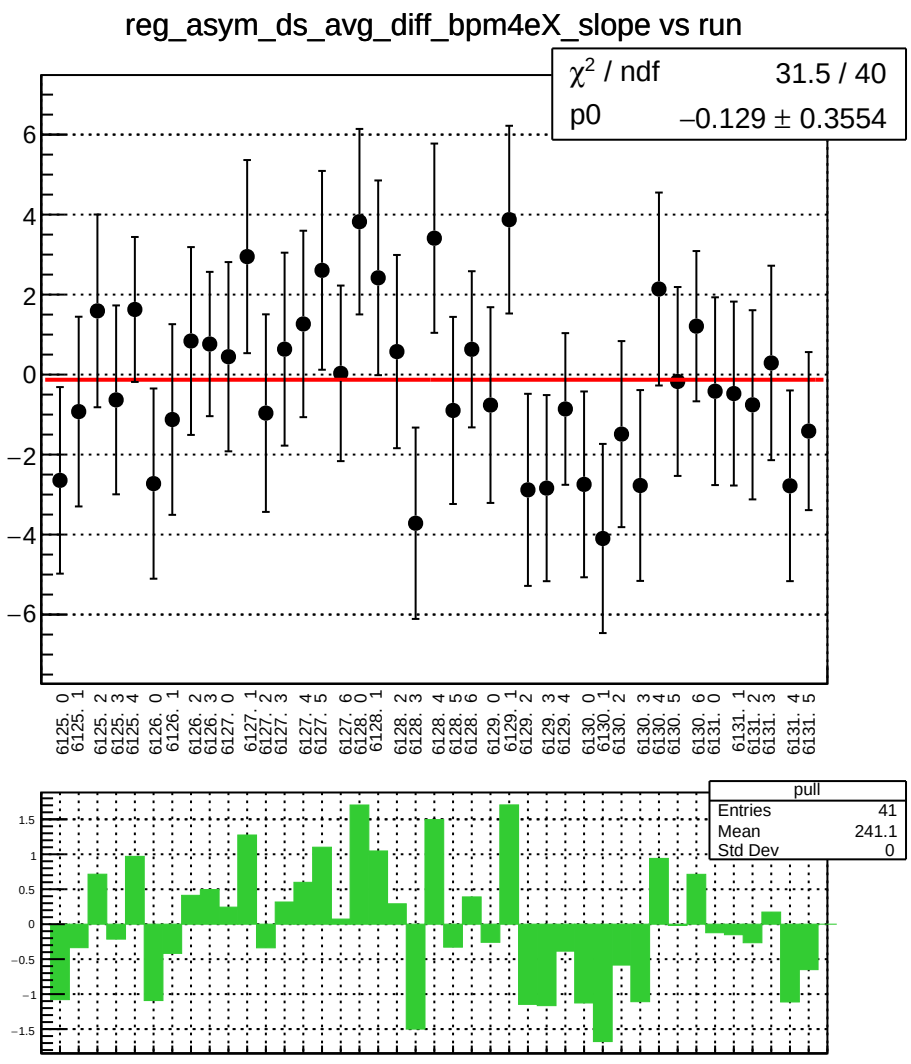

pull1D
Entries 41
Mean −0.01024
Std Dev 0.6967

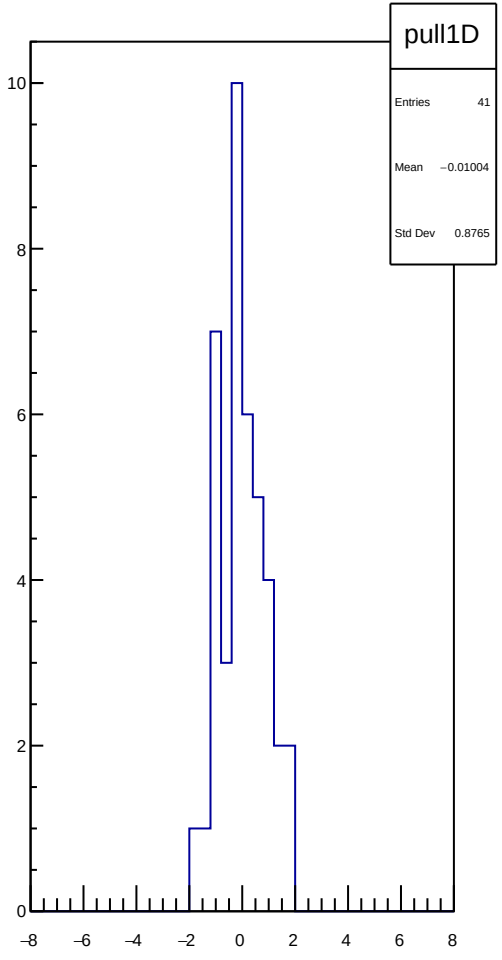

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 31.39 / 40
p0 0.04772 ± 0.2916
pull
Entries 41
Mean 276.1
Std Dev 0

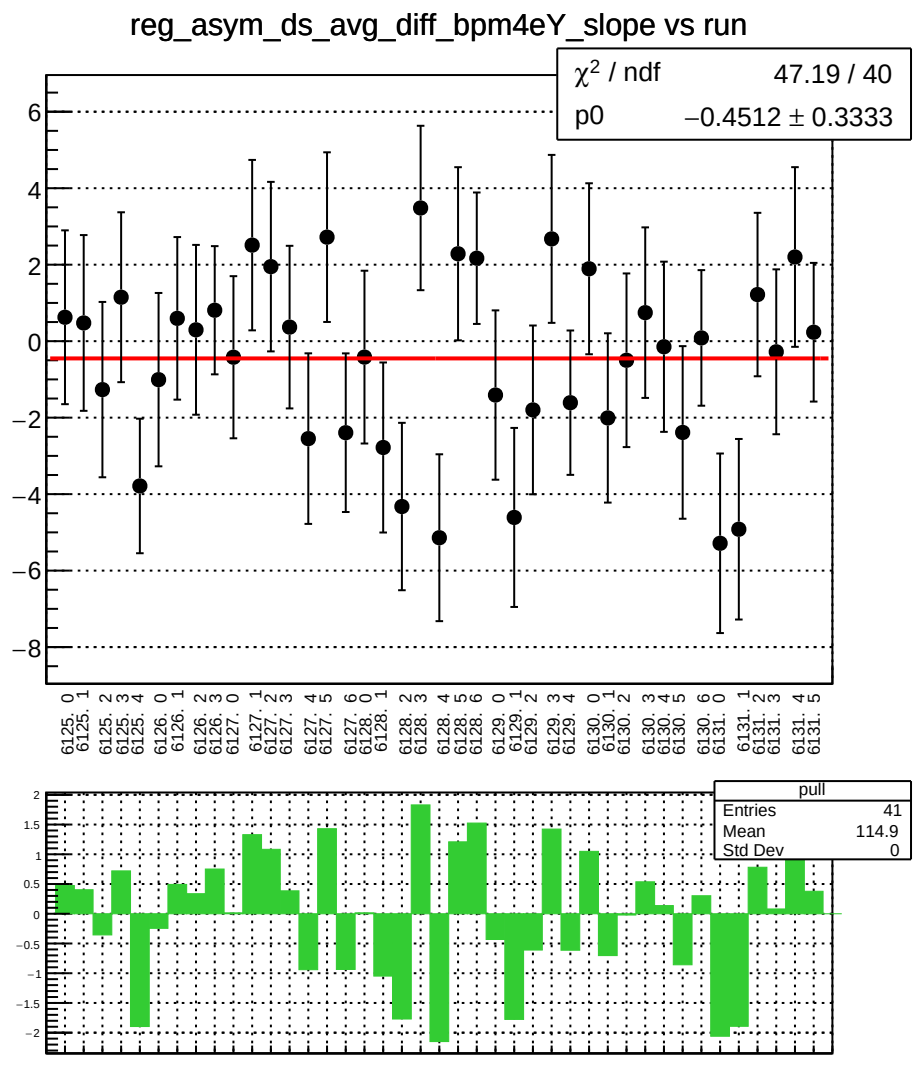

pull1D
Entries 41
Mean 0.009726
Std Dev 0.875

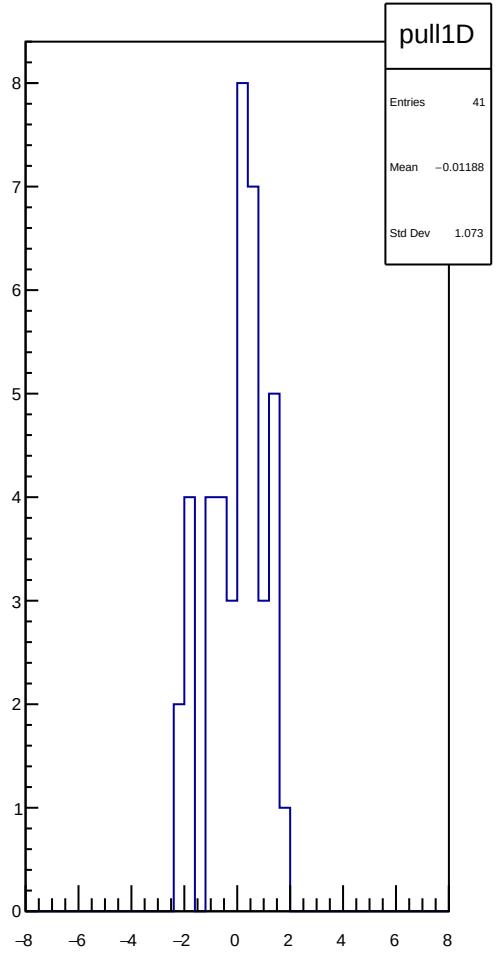

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 46.07 / 40
p0 0.4781± 0.3151
pull
Entries 41
Mean 97.16
Std Dev 0

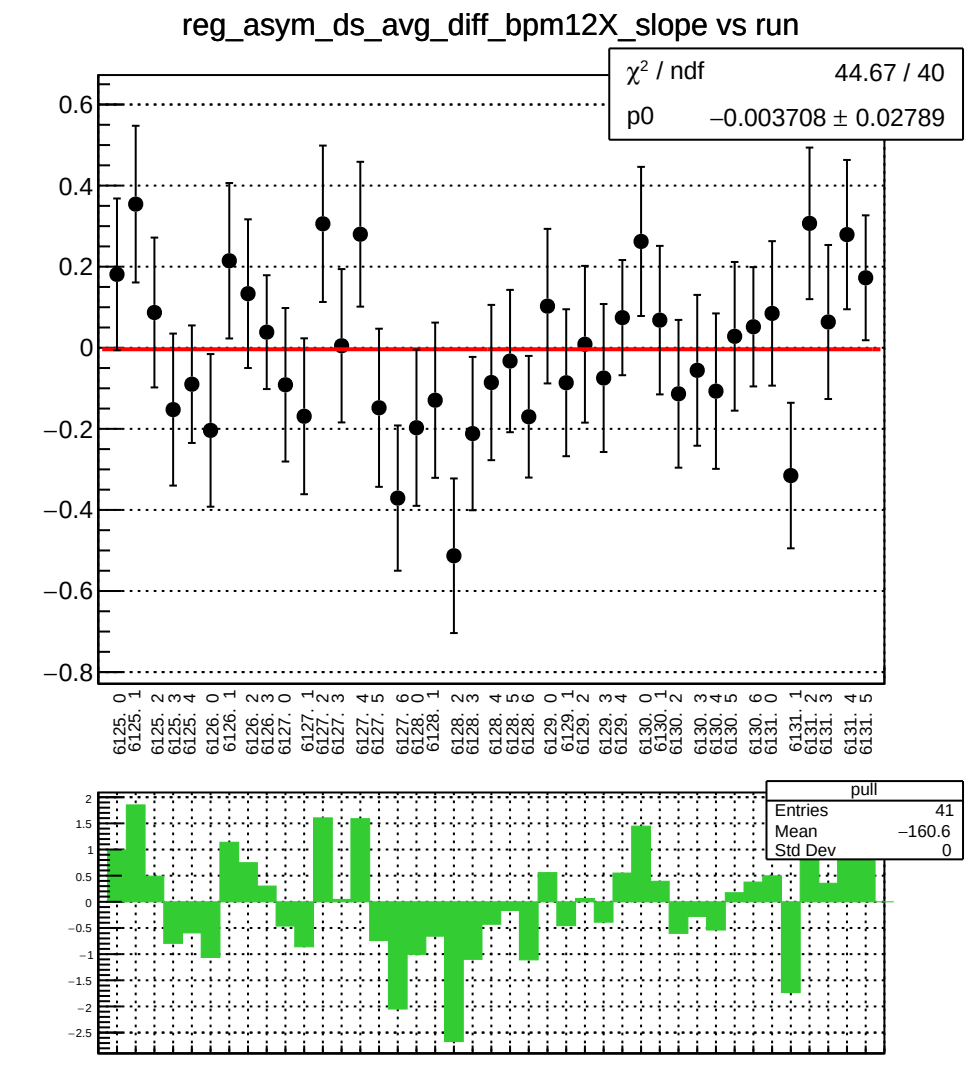

pull1D
Entries 41
Mean 0.01398
Std Dev 1.06

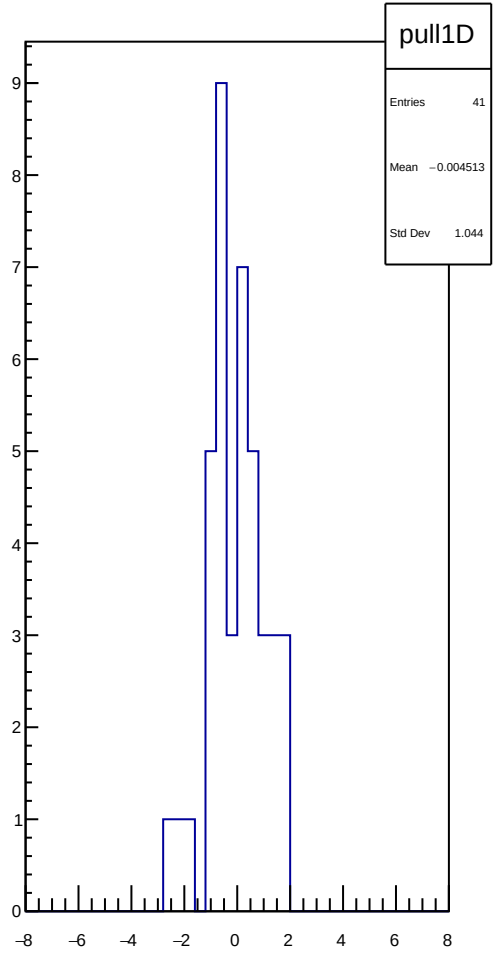

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.5 / 40
p0 −0.129 ± 0.3554
pull
Entries 41
Mean 241.1
Std Dev 0

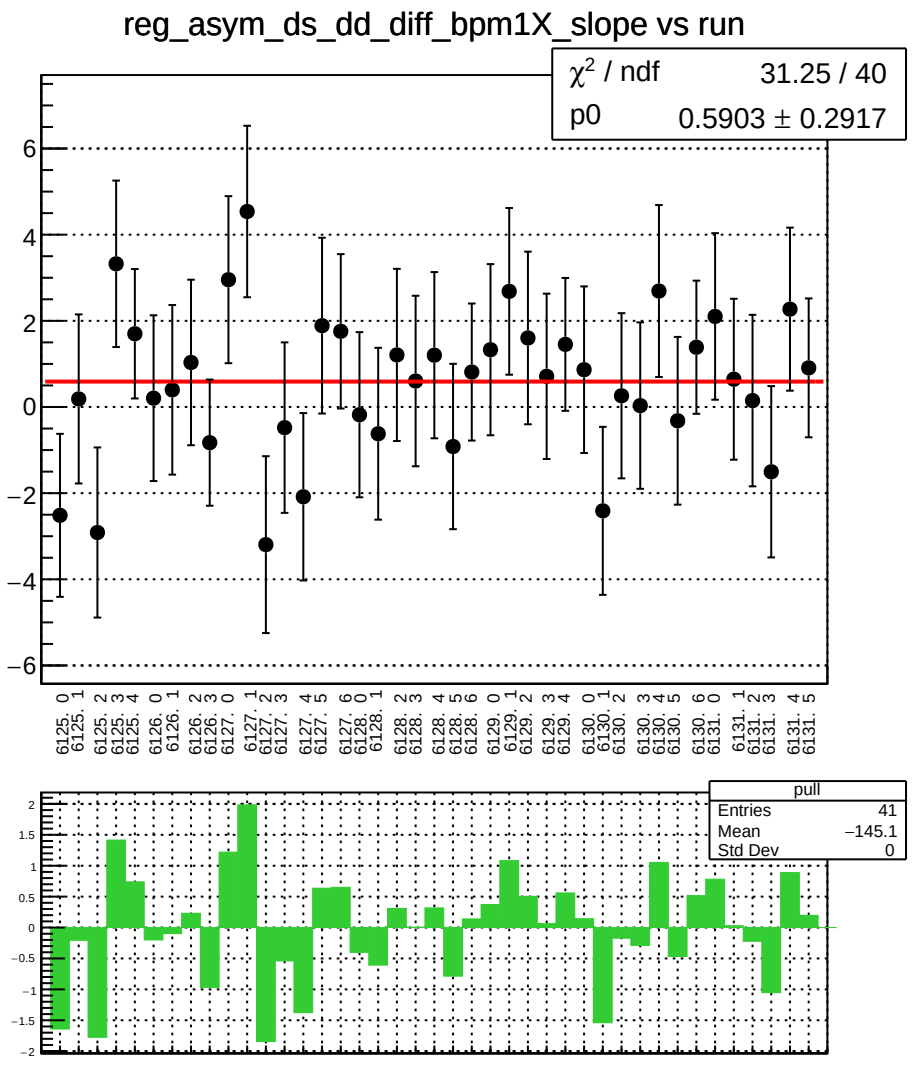

pull1D
Entries 41
Mean −0.01004
Std Dev 0.8765

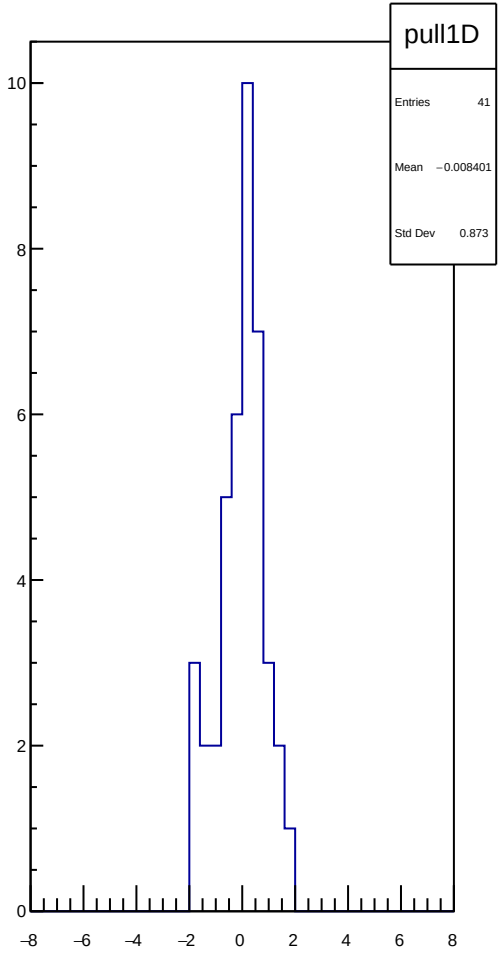

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 47.19 / 40
p0 −0.4512 ± 0.3333
pull
Entries 41
Mean 114.9
Std Dev 0

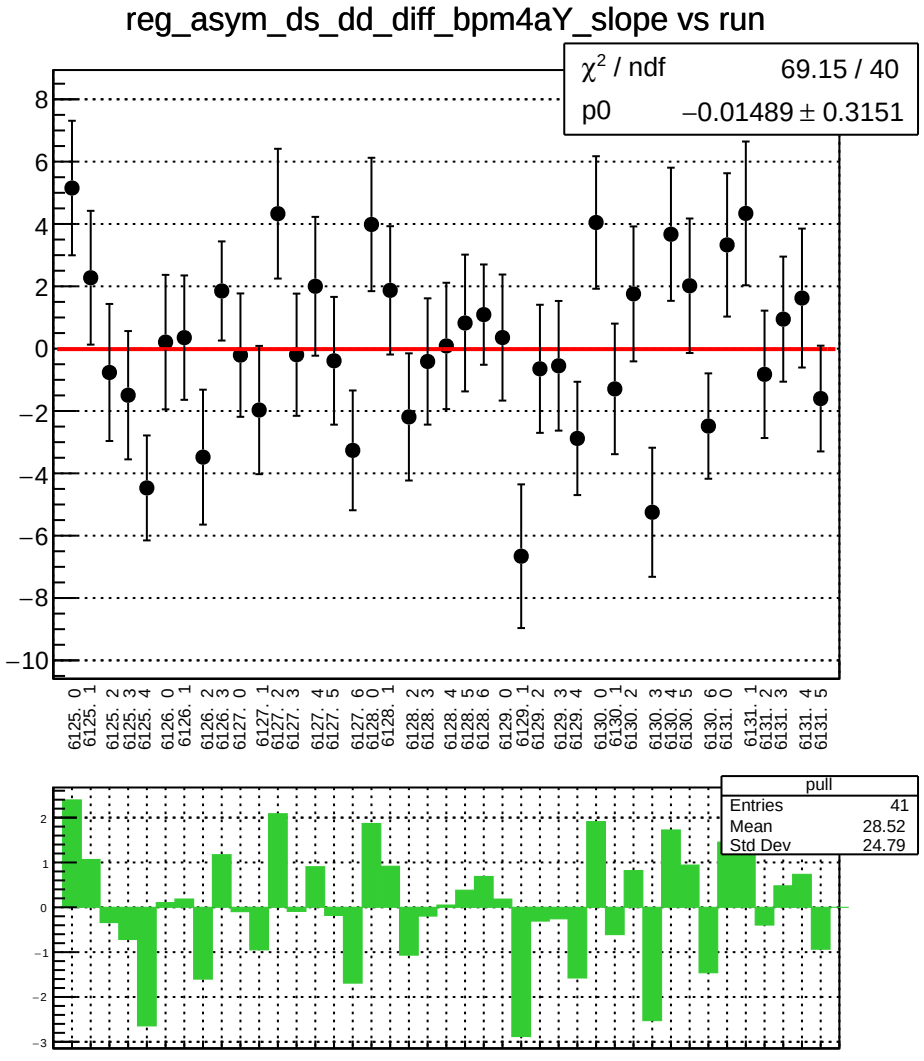

pull1D
Entries 41
Mean −0.01188
Std Dev 1.073

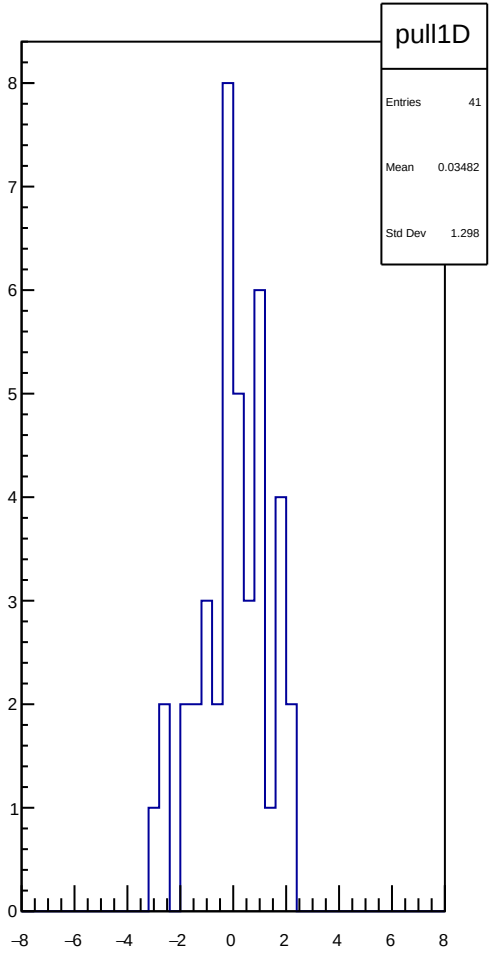

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 44.67 / 40
p0 −0.003708 ± 0.02789
pull
Entries 41
Mean −160.6
Std Dev 0

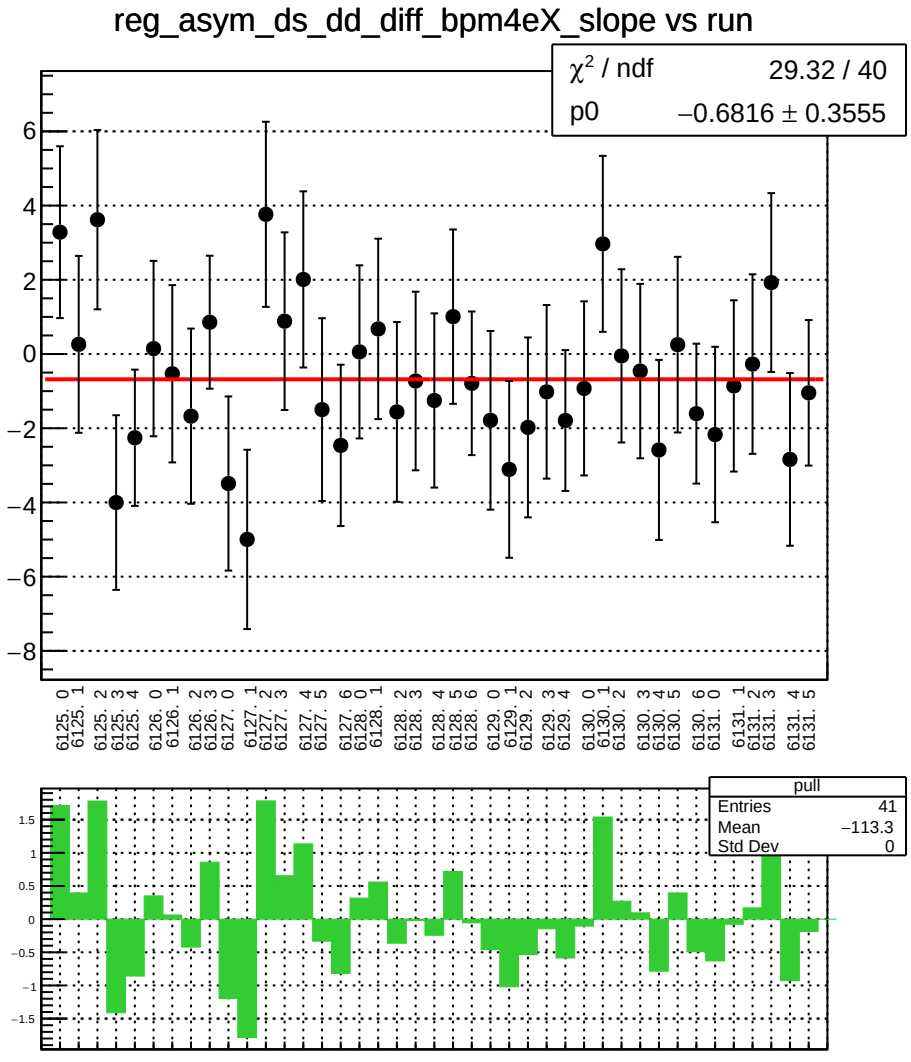

pull1D
Entries 41
Mean −0.004513
Std Dev 1.044

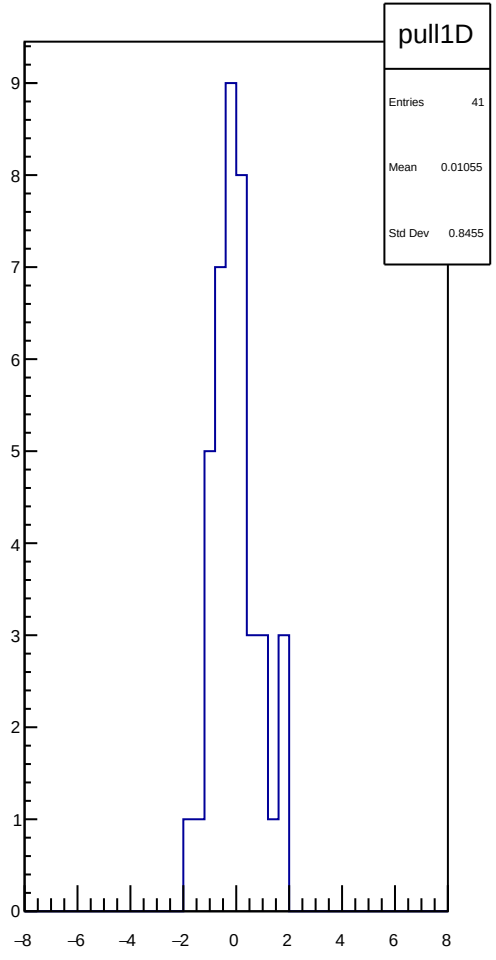

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 31.25 / 40
p0 0.5903 ± 0.2917
pull
Entries 41
Mean −145.1
Std Dev 0

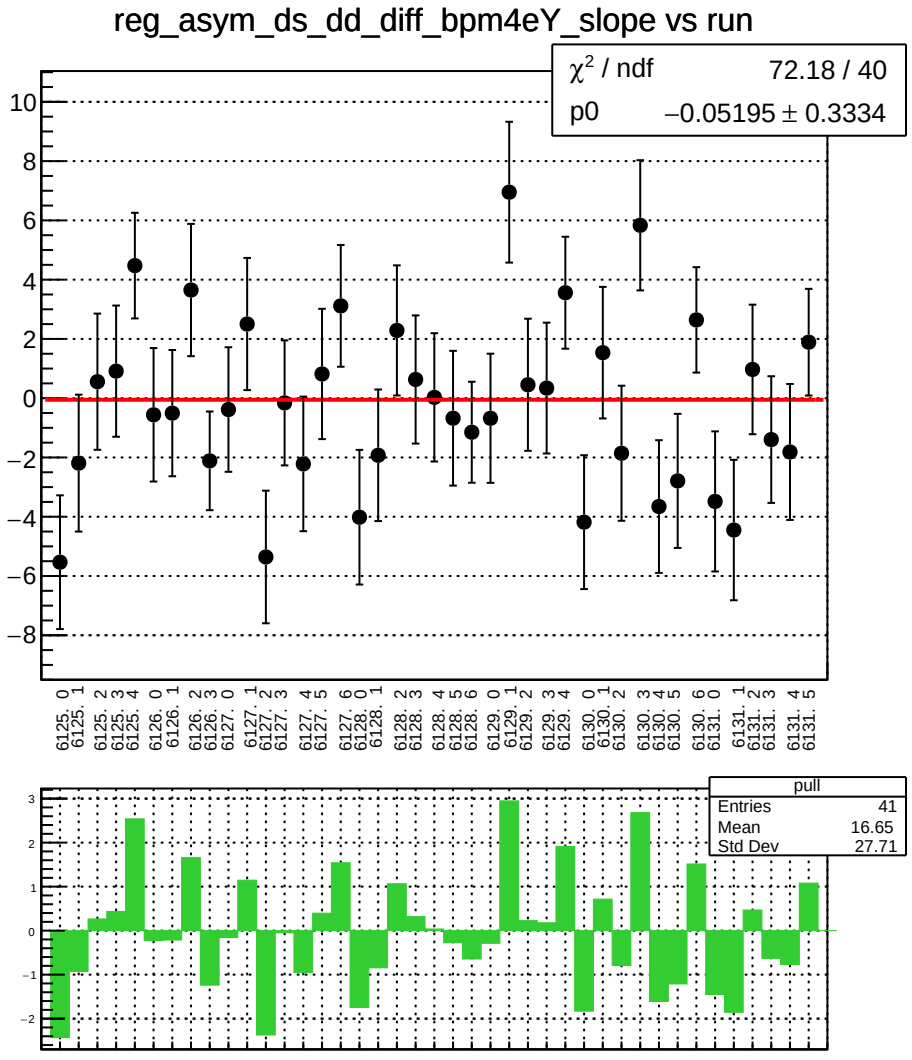

pull1D
Entries 41
Mean −0.008401
Std Dev 0.873

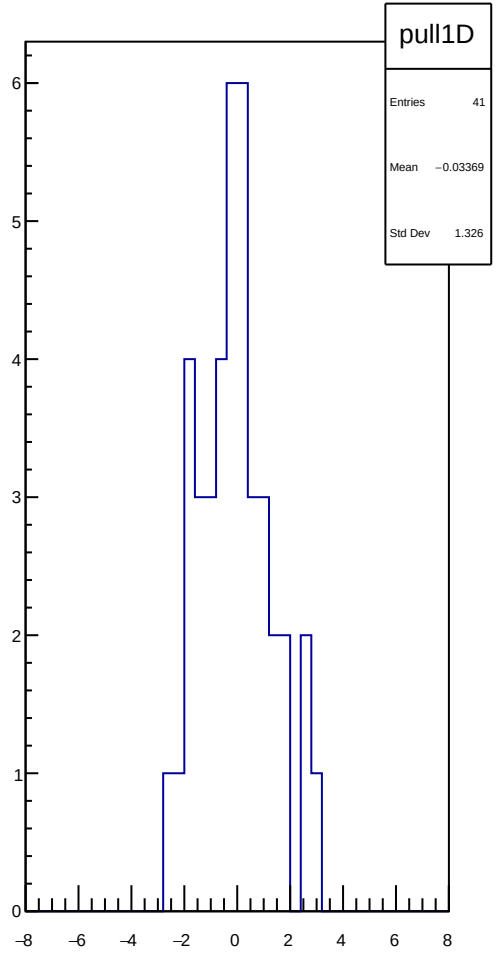

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 69.15 / 40
p0 −0.01489 ± 0.3151
pull
Entries 41
Mean 28.52
Std Dev 24.79

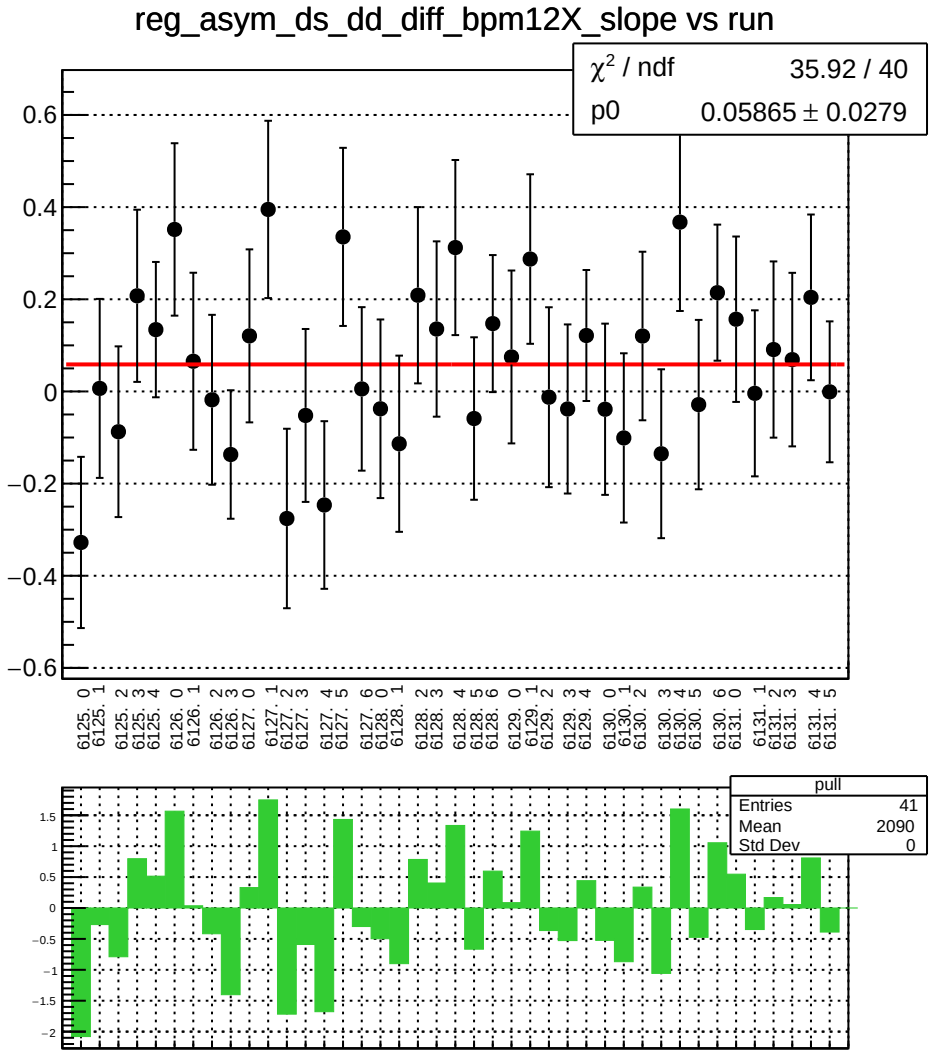

pull1D
Entries 41
Mean 0.03482
Std Dev 1.298

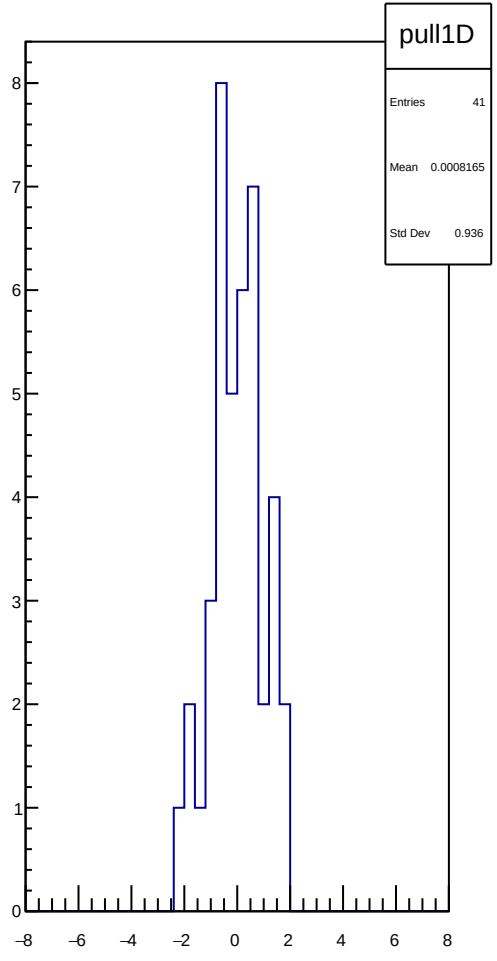

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.32 / 40
p0 −0.6816 ± 0.3555
pull
Entries 41
Mean −113.3
Std Dev 0

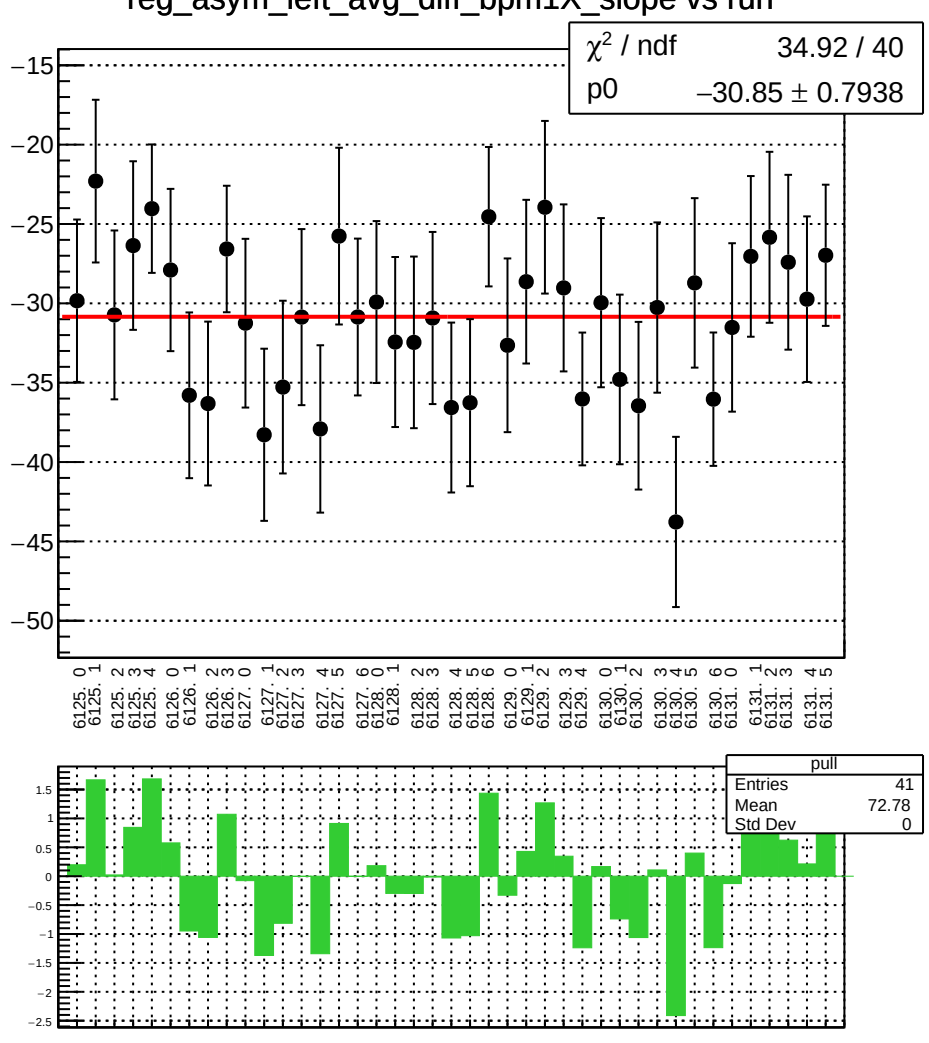

pull1D
Entries 41
Mean 0.01055
Std Dev 0.8455

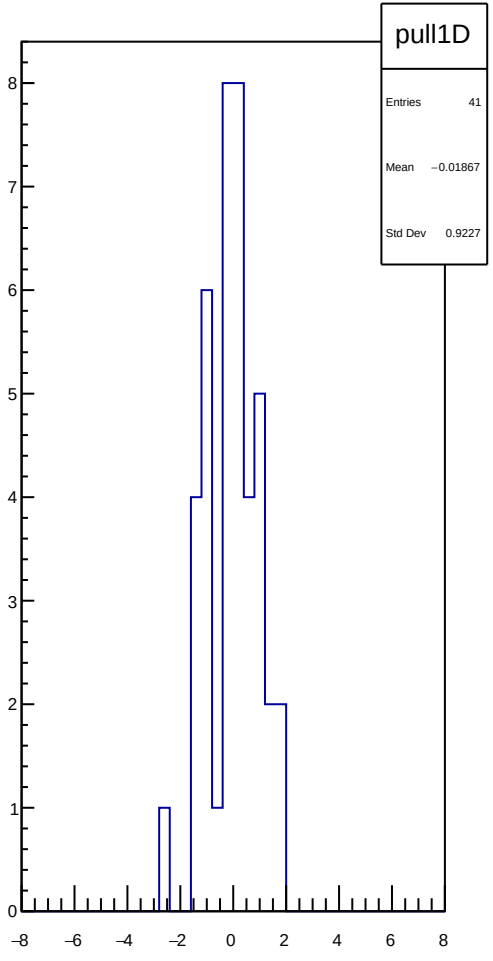

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 72.18 / 40
p0 −0.05195 ± 0.3334
pull
Entries 41
Mean 16.65
Std Dev 27.71

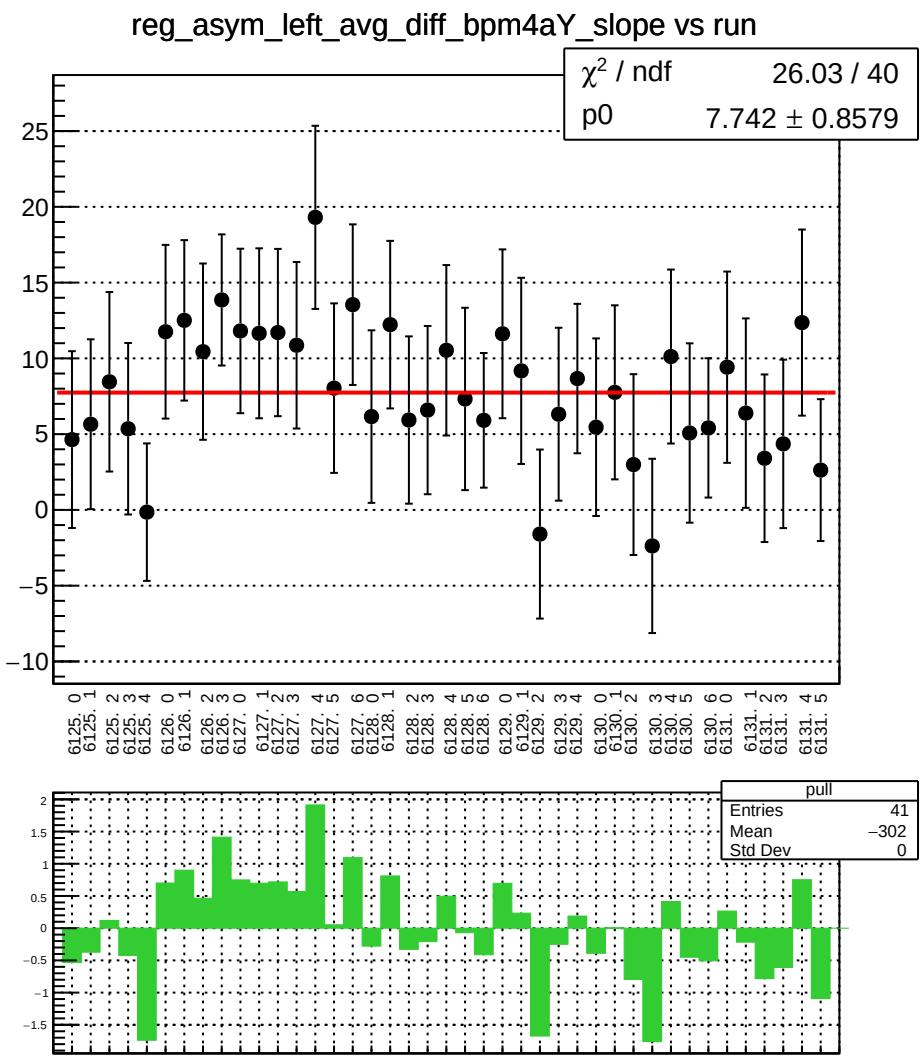

pull1D
Entries 41
Mean −0.03369
Std Dev 1.326

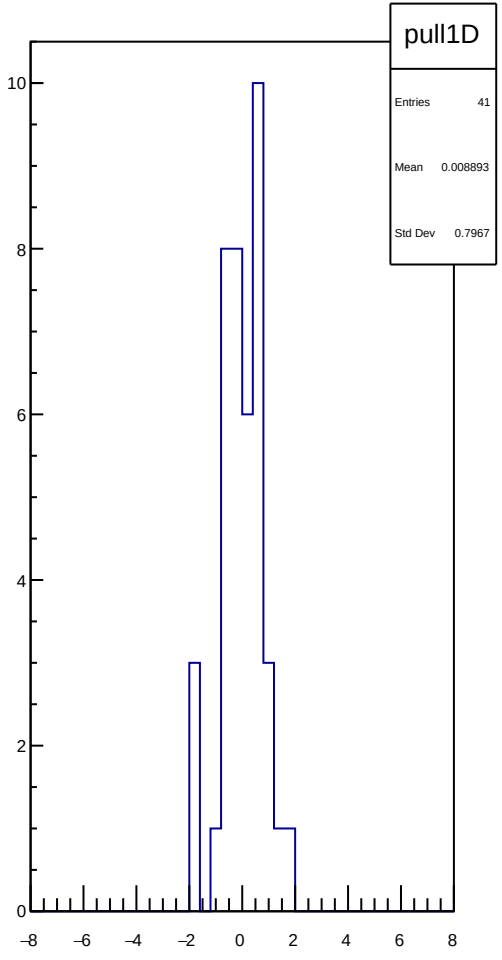

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 35.92 / 40
p0 0.05865 ± 0.0279
pull
Entries 41
Mean 2090
Std Dev 0

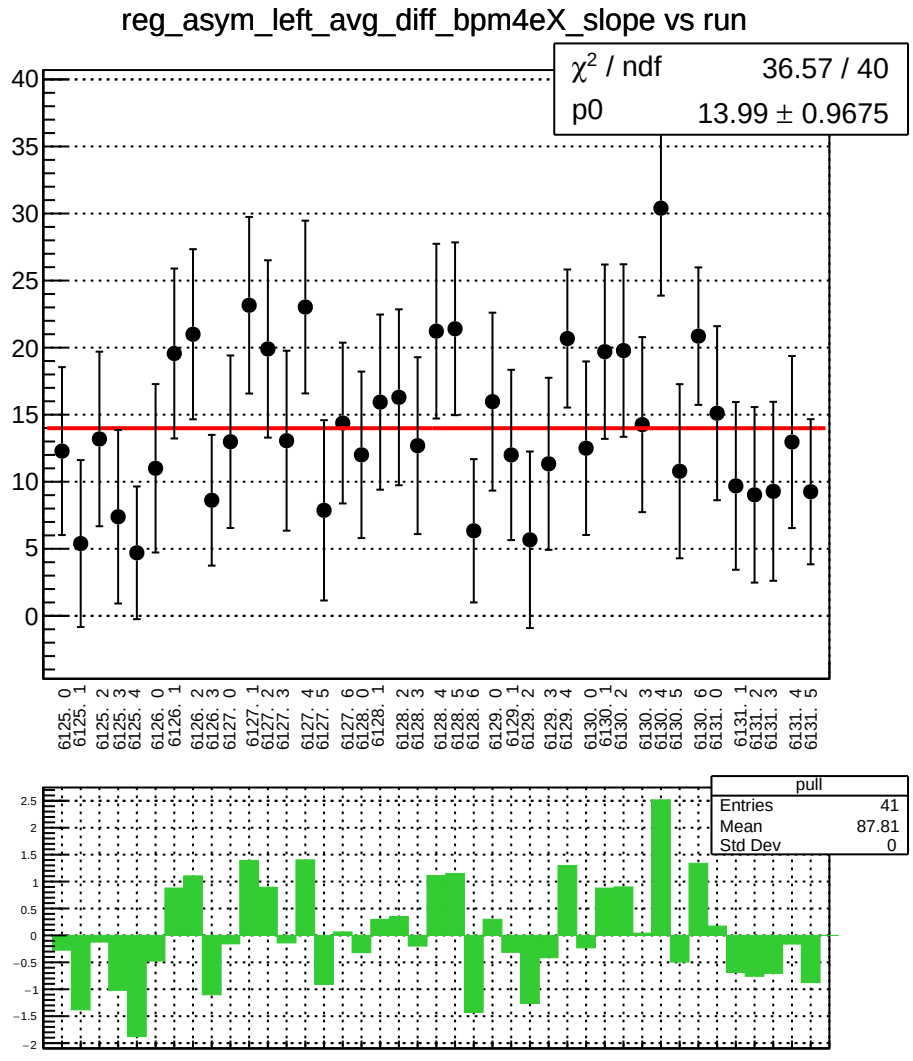

pull1D
Entries 41
Mean 0.0008165
Std Dev 0.936

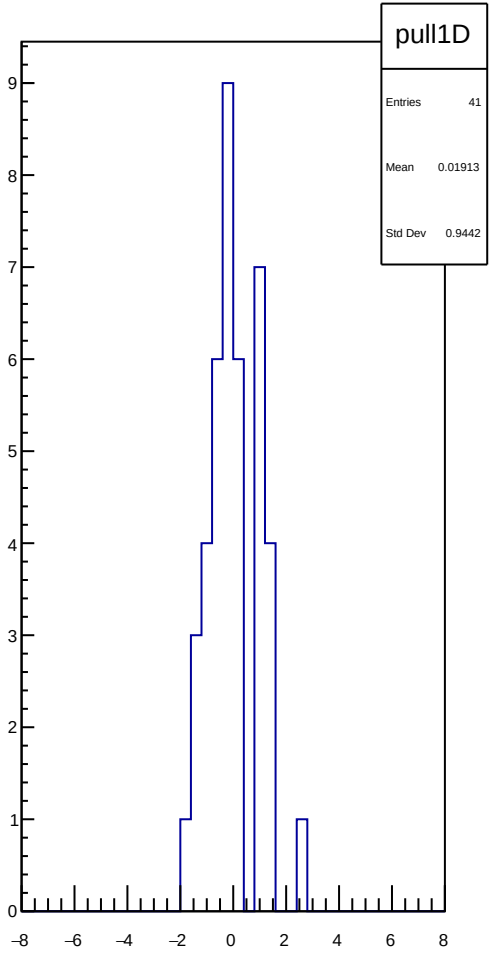

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 34.92 / 40
p0 −30.85 ± 0.7938
pull
Entries 41
Mean 72.78
Std Dev 0

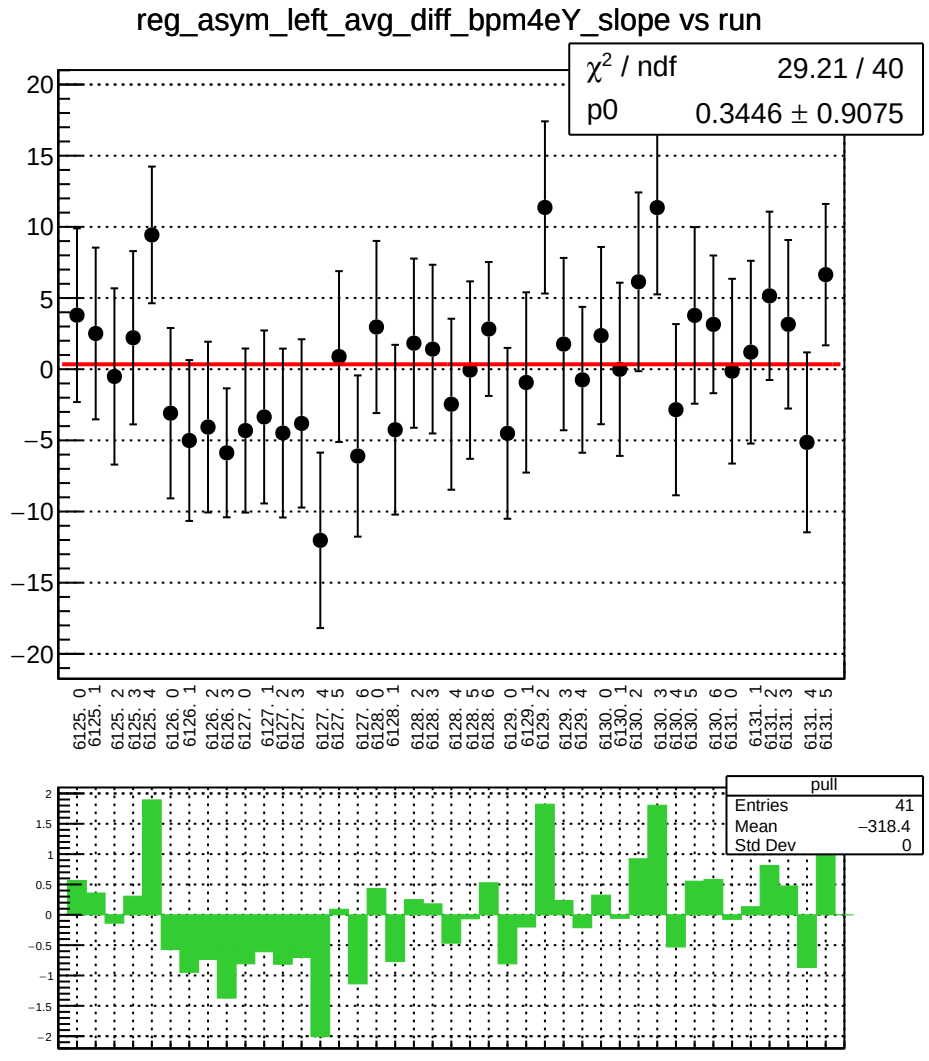

pull1D
Entries 41
Mean −0.01867
Std Dev 0.9227

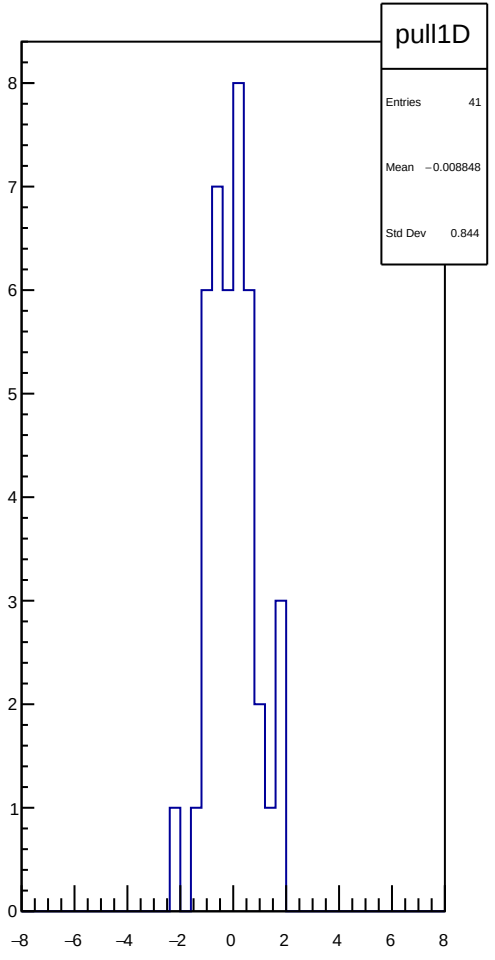

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.03 / 40
p0 7.742 ± 0.8579
pull
Entries 41
Mean −302
Std Dev 0

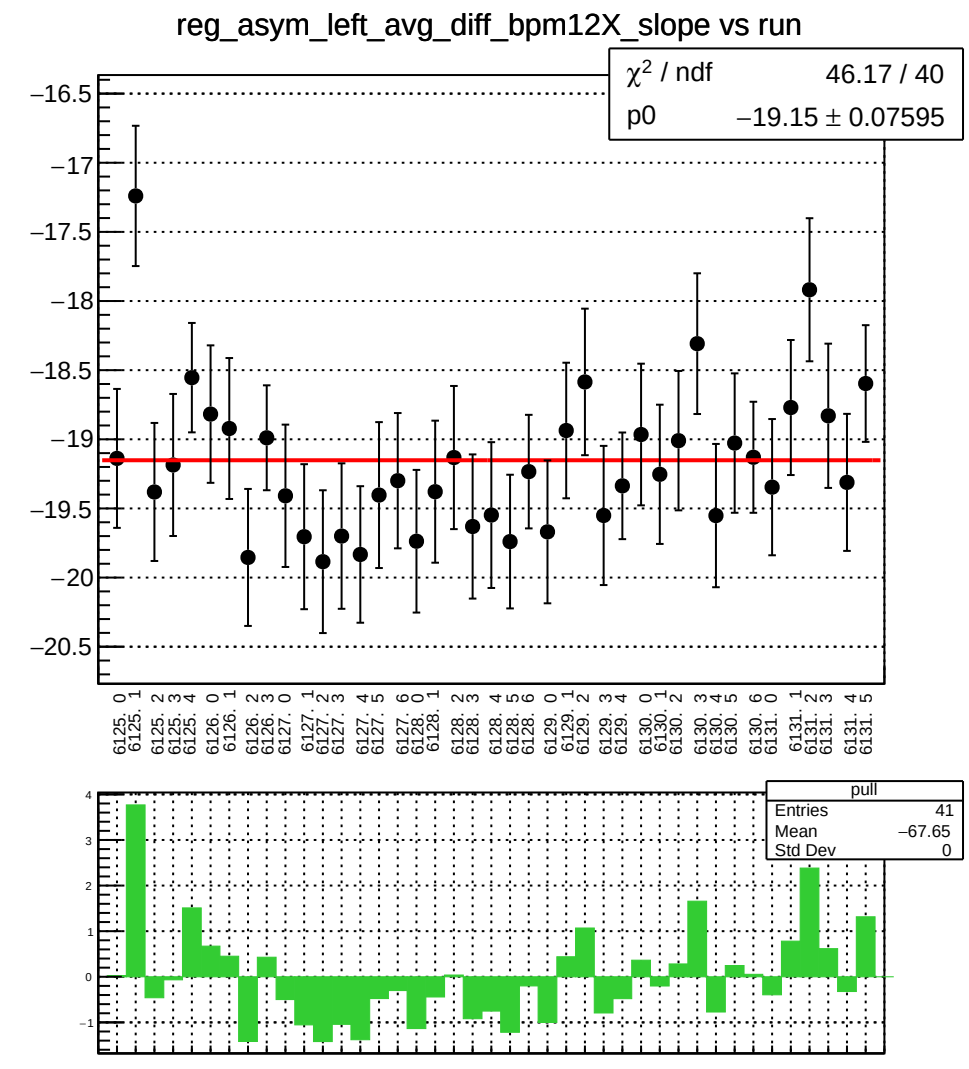

pull1D
Entries 41
Mean 0.008893
Std Dev 0.7967

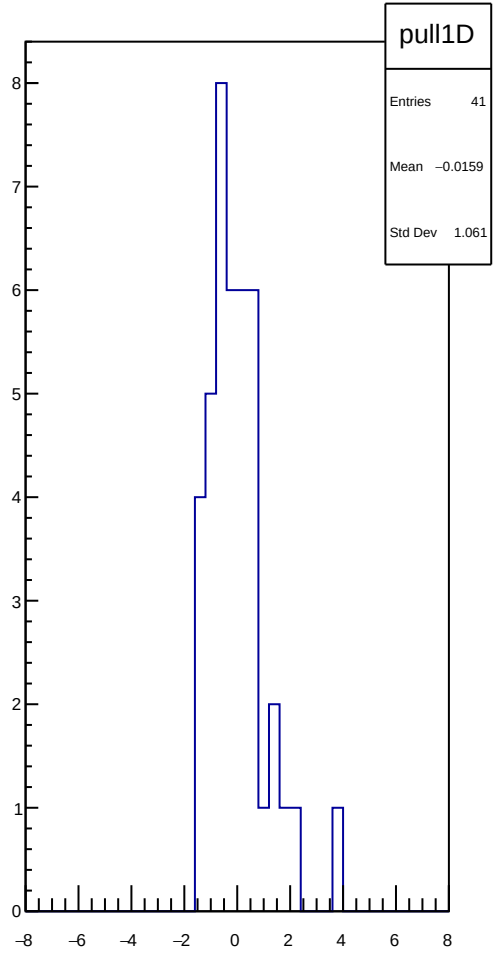

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 36.57 / 40
p0 13.99 ± 0.9675
pull
Entries 41
Mean 87.81
Std Dev 0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5

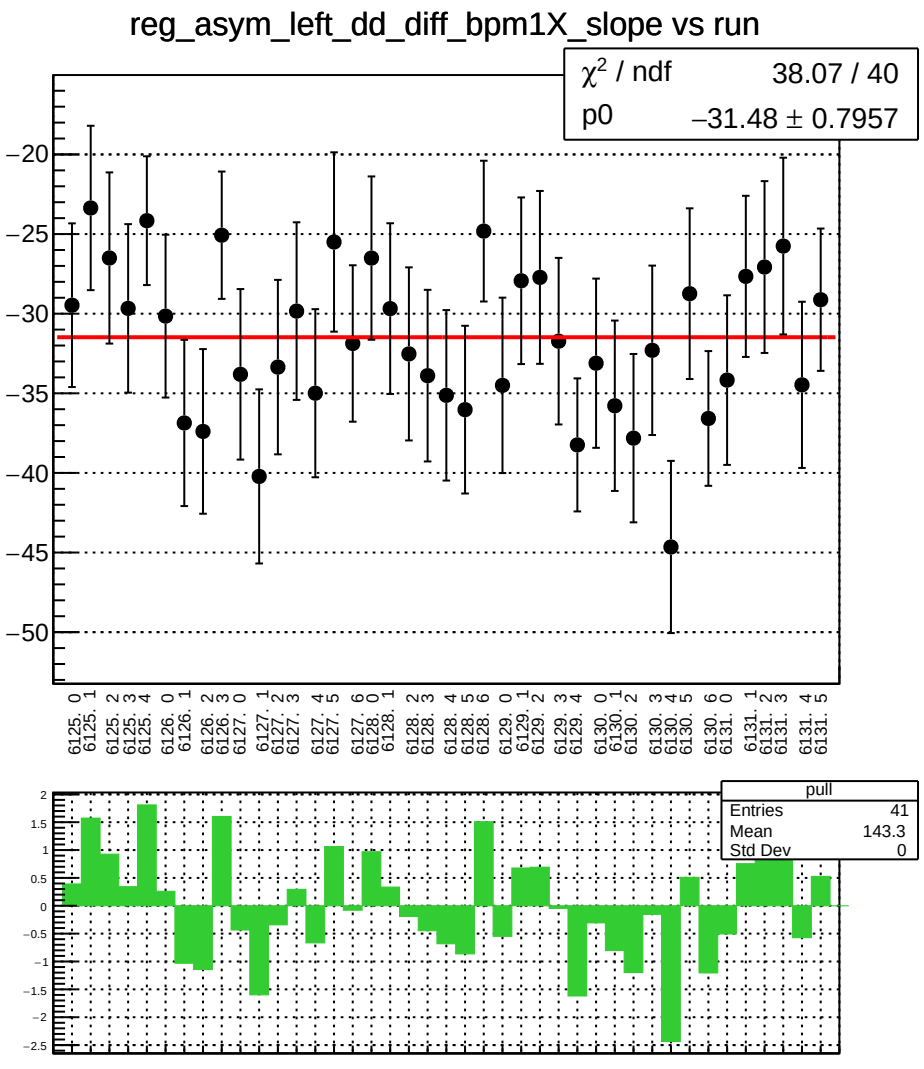

pull1D
Entries 41
Mean 0.01913
Std Dev 0.9442

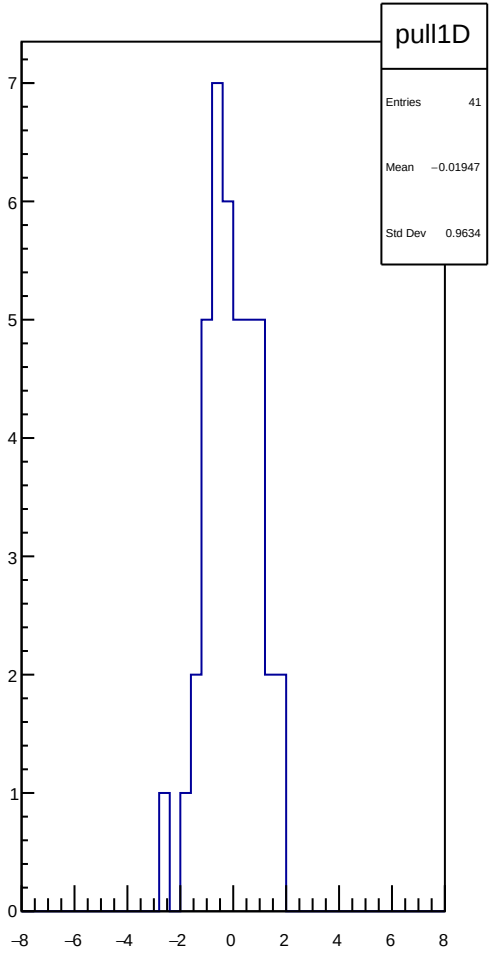

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.21 / 40
p0 0.3446 ± 0.9075
pull
Entries 41
Mean −318.4
Std Dev 0

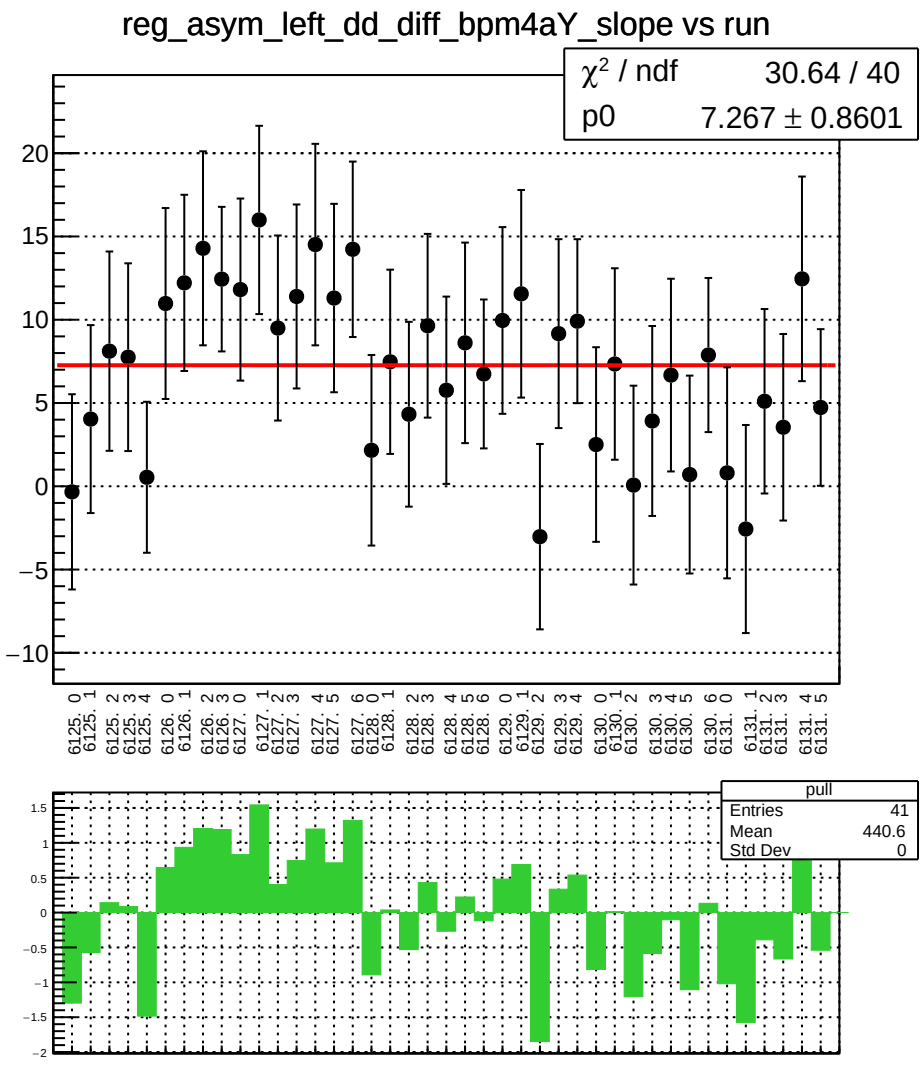

pull1D
Entries 41
Mean −0.008848
Std Dev 0.844

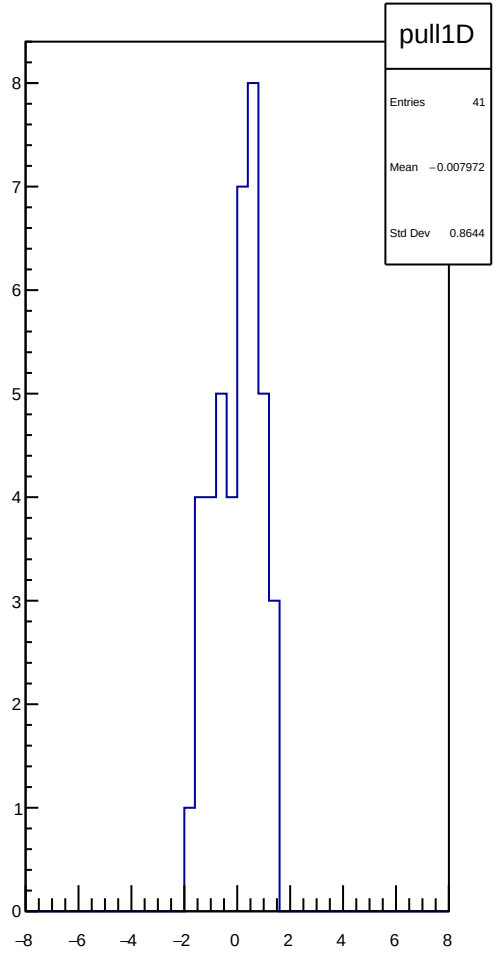

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 46.17 / 40
p0 −19.15 ± 0.07595
pull
Entries 41
Mean −67.65
Std Dev 0

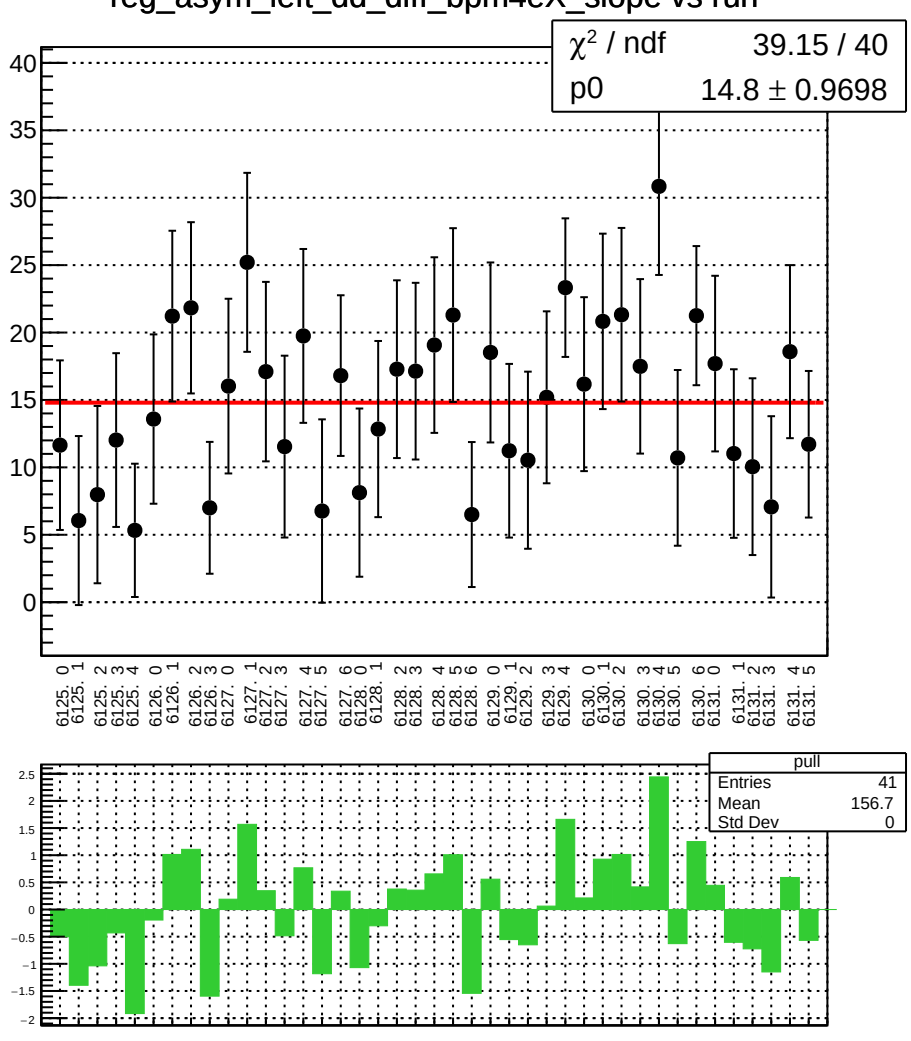

pull1D
Entries 41
Mean −0.0159
Std Dev 1.061

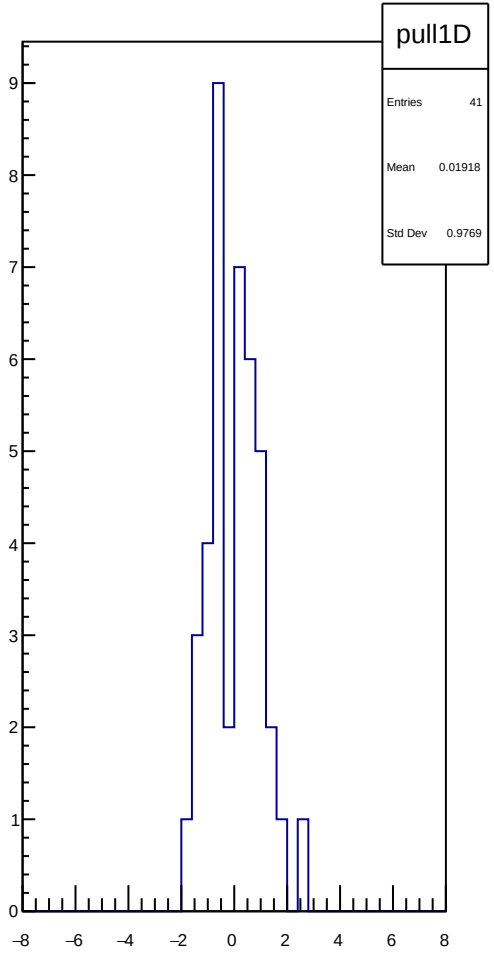

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 38.07 / 40
p0 −31.48 ± 0.7957
pull
Entries 41
Mean 143.3
Std Dev 0

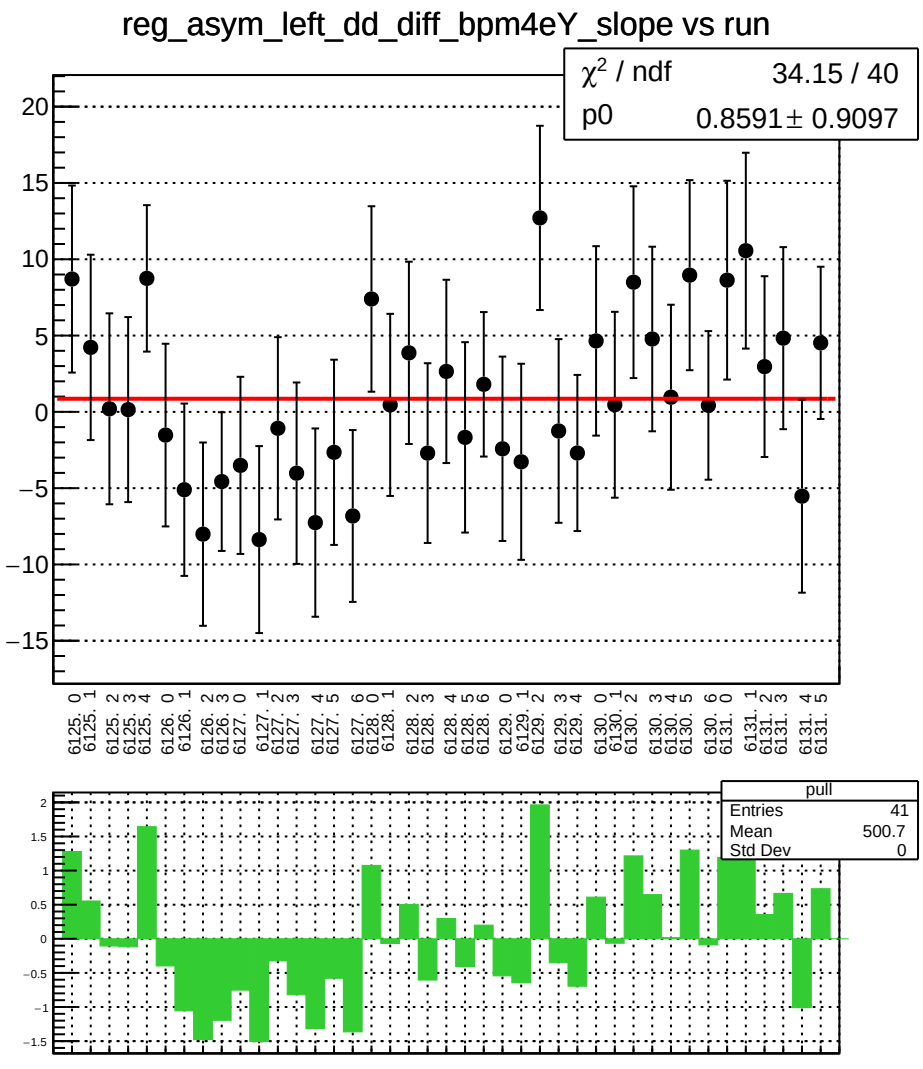

pull1D
Entries 41
Mean −0.01947
Std Dev 0.9634

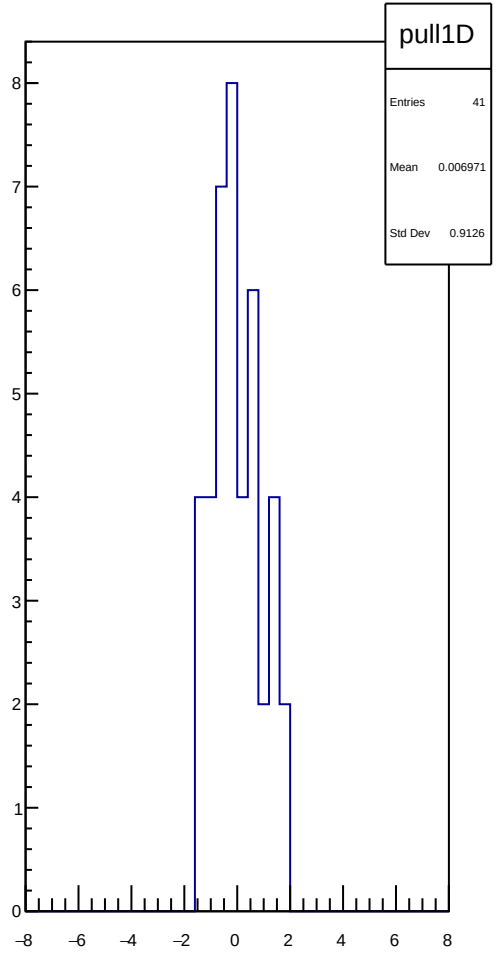

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.64 / 40
p0 7.267 ± 0.8601
pull
Entries 41
Mean 440.6
Std Dev 0

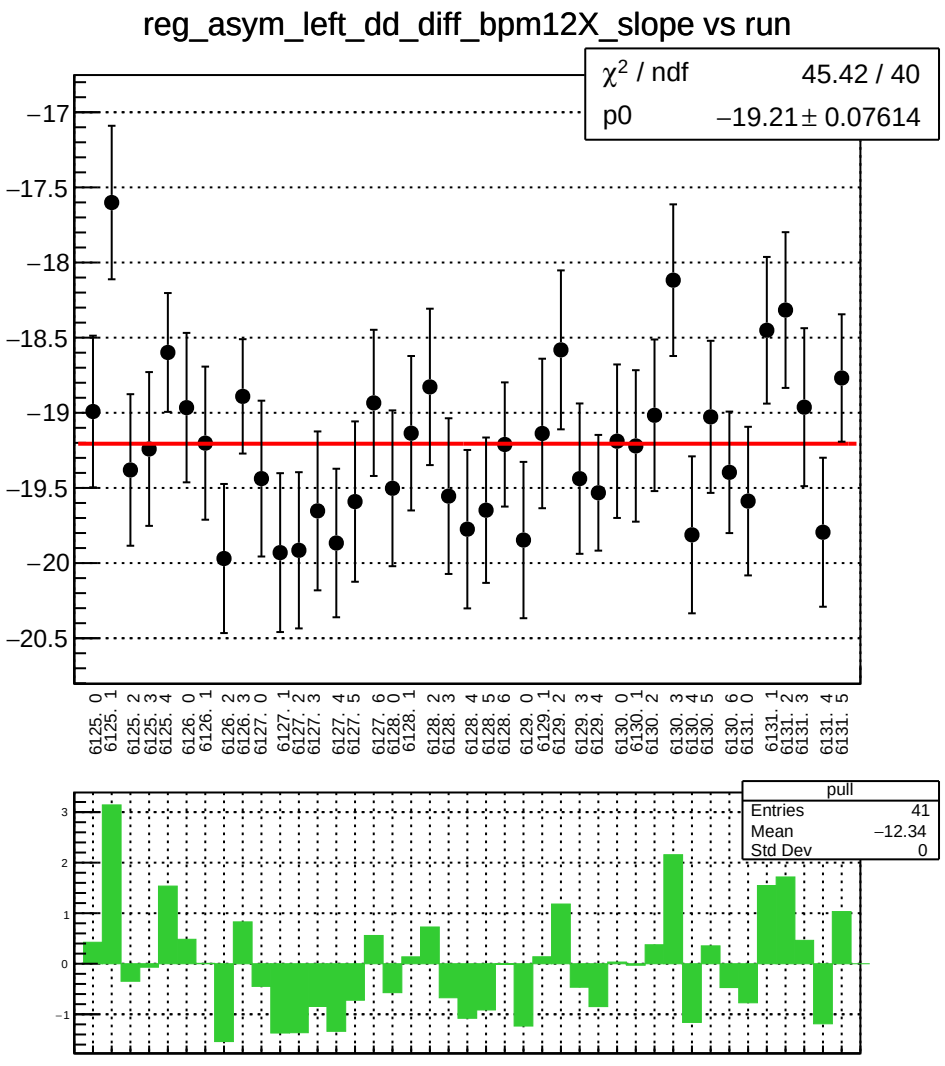

pull1D
Entries 41
Mean −0.007972
Std Dev 0.8644

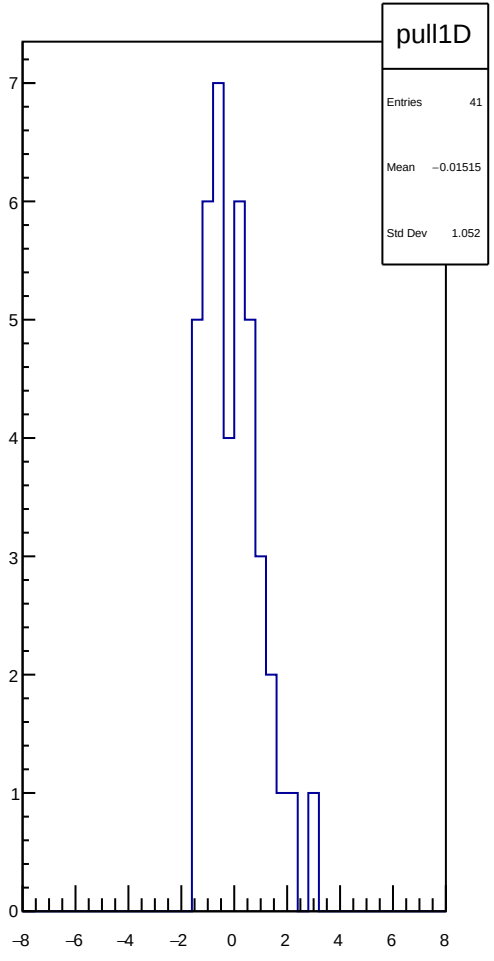

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.15 / 40
p0 14.8 ± 0.9698
pull
Entries 41
Mean 156.7
Std Dev 0

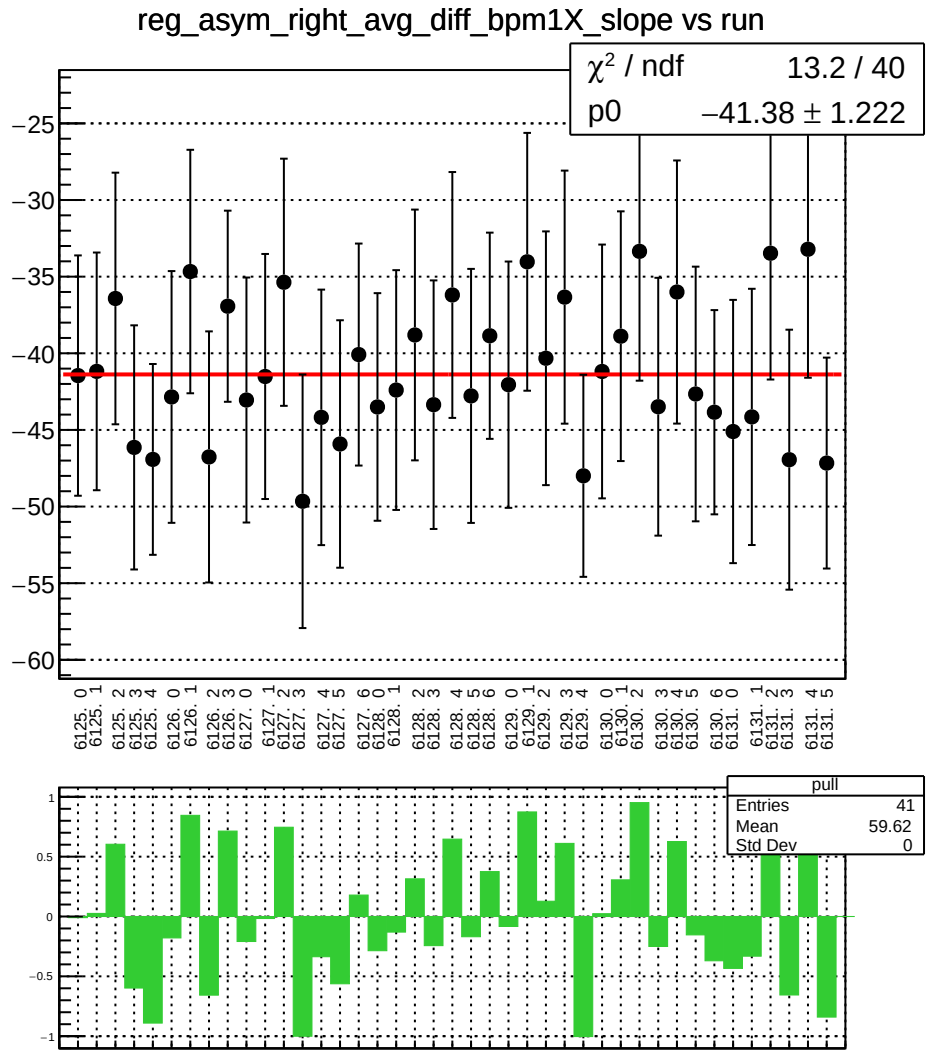

pull1D
Entries 41
Mean 0.01918
Std Dev 0.9769

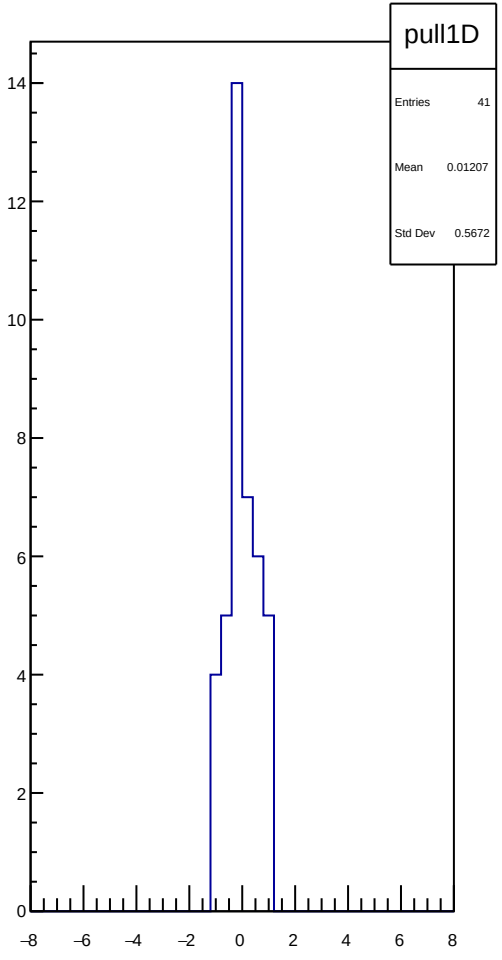

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.15 / 40
p0 0.8591 ± 0.9097
pull
Entries 41
Mean 500.7
Std Dev 0

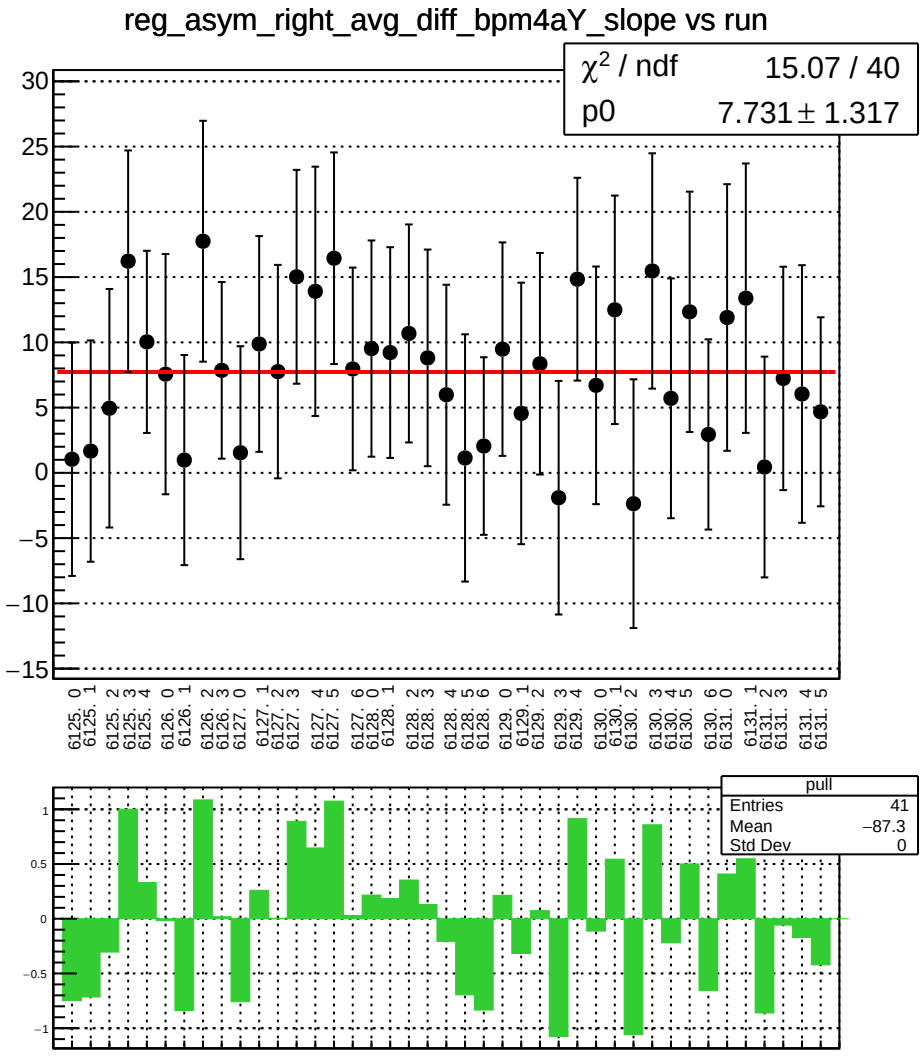

pull1D
Entries 41
Mean 0.006971
Std Dev 0.9126

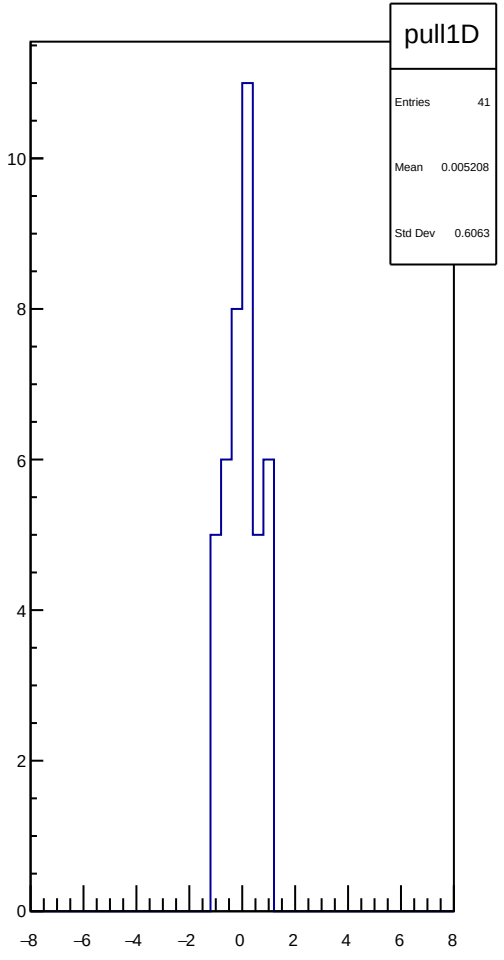

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 45.42 / 40
p0 −19.21 ± 0.07614
−17
−17.5
−18
−18.5
−19
−19.5
−20
−20.5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −12.34
Std Dev 0
3
2
1
0
−1

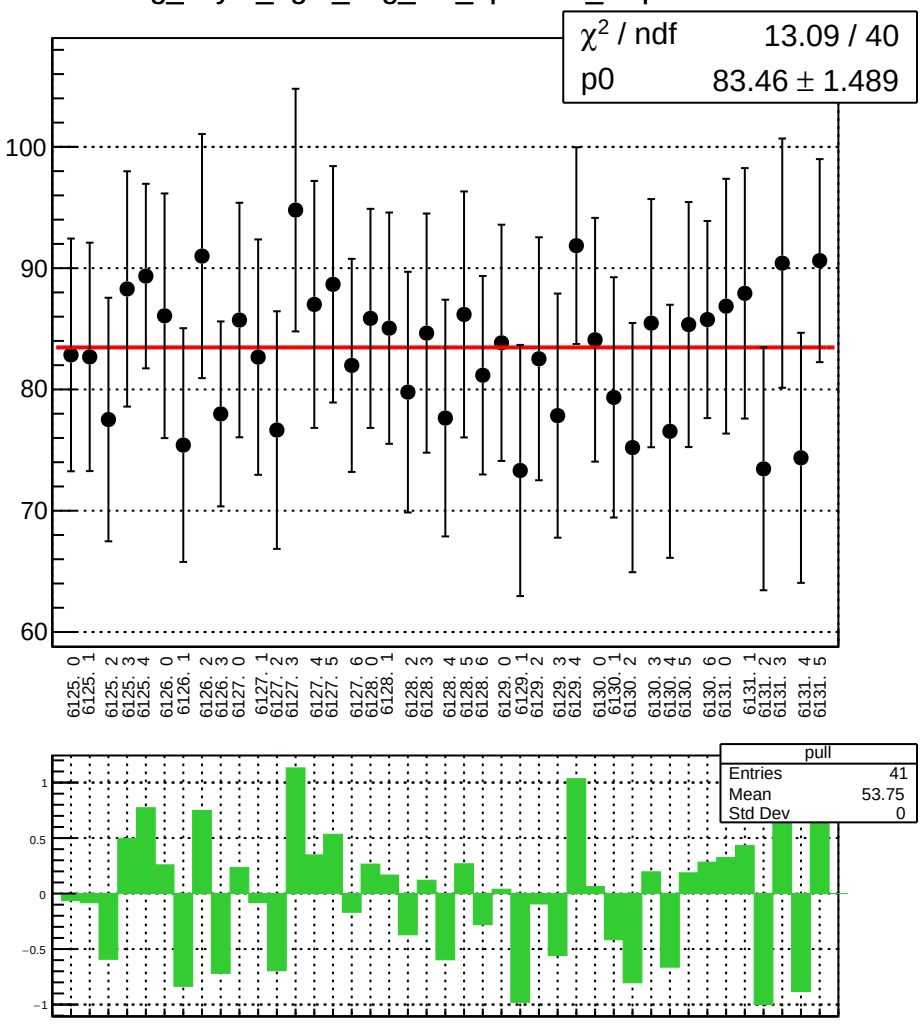

pull1D
Entries 41
Mean −0.01515
Std Dev 1.052
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

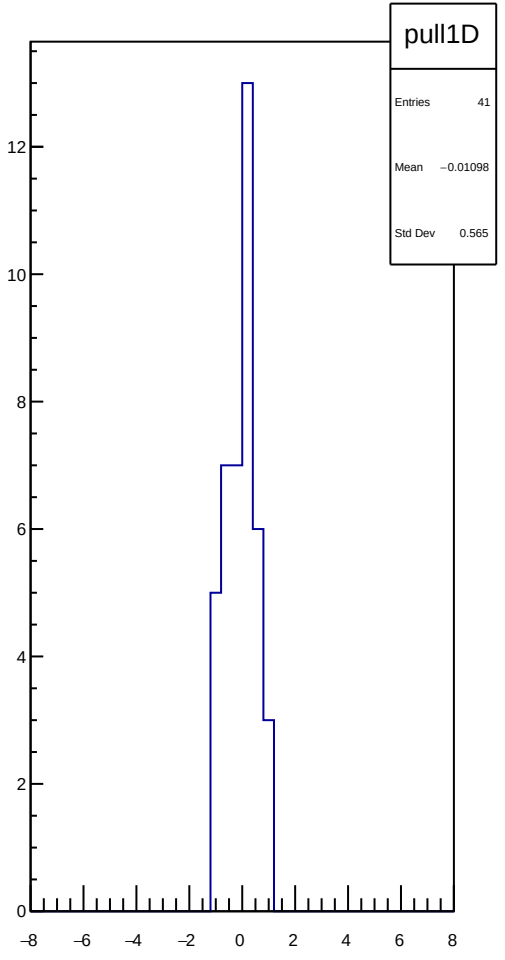

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 13.2 / 40
p0 −41.38 ± 1.222
pull
Entries 41
Mean 59.62
Std Dev 0

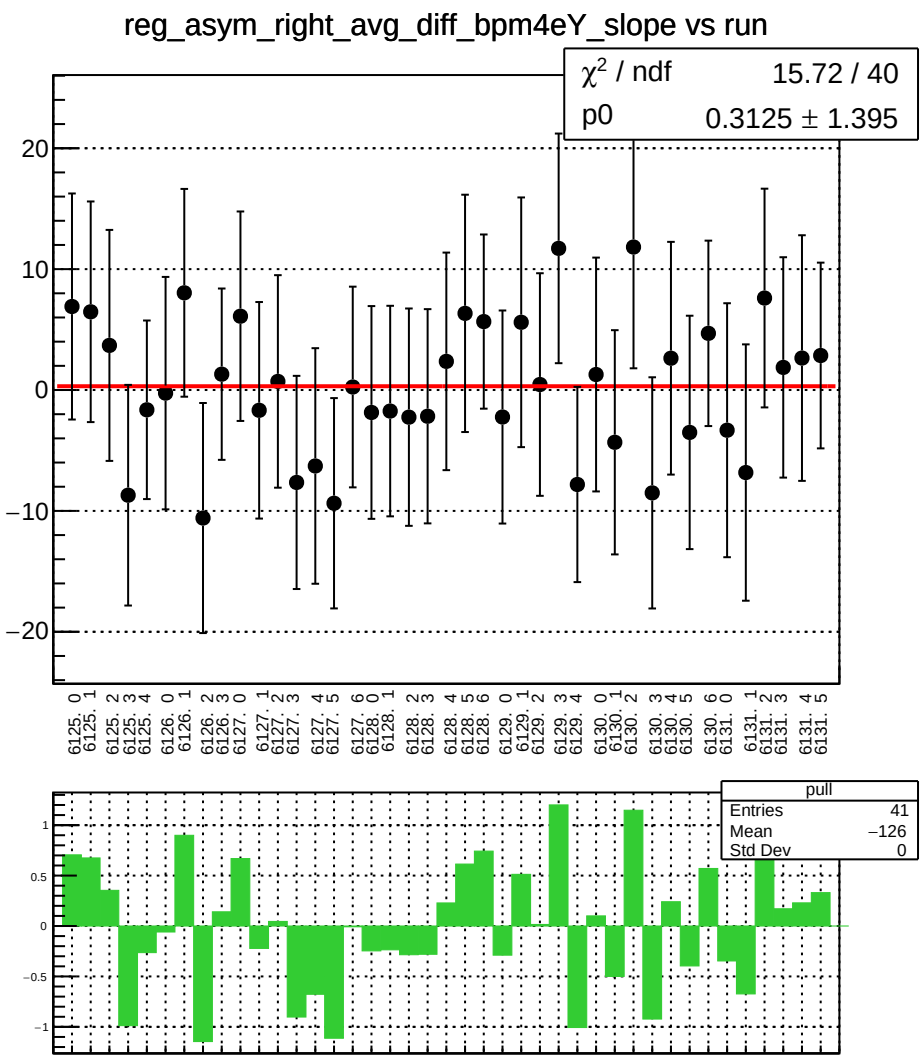

pull1D
Entries 41
Mean 0.01207
Std Dev 0.5672

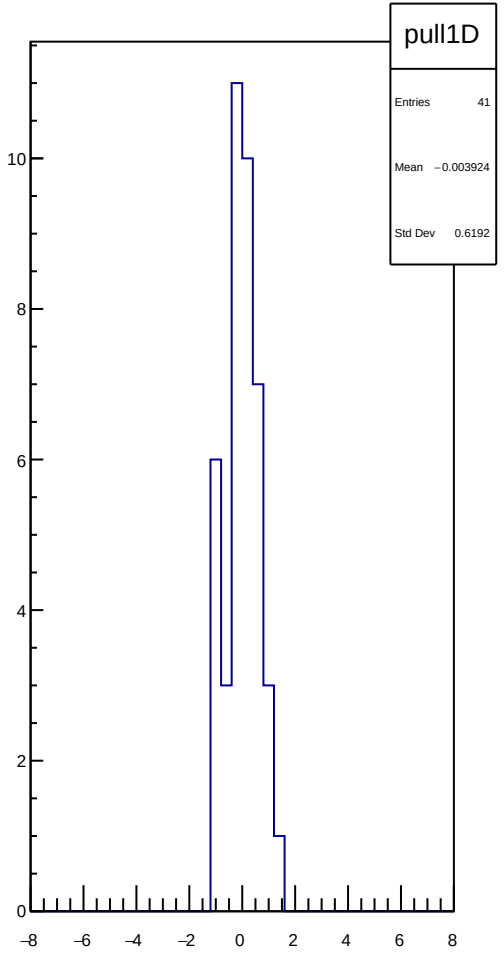

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.07 / 40
p0 7.731 ± 1.317
pull
Entries 41
Mean −87.3
Std Dev 0

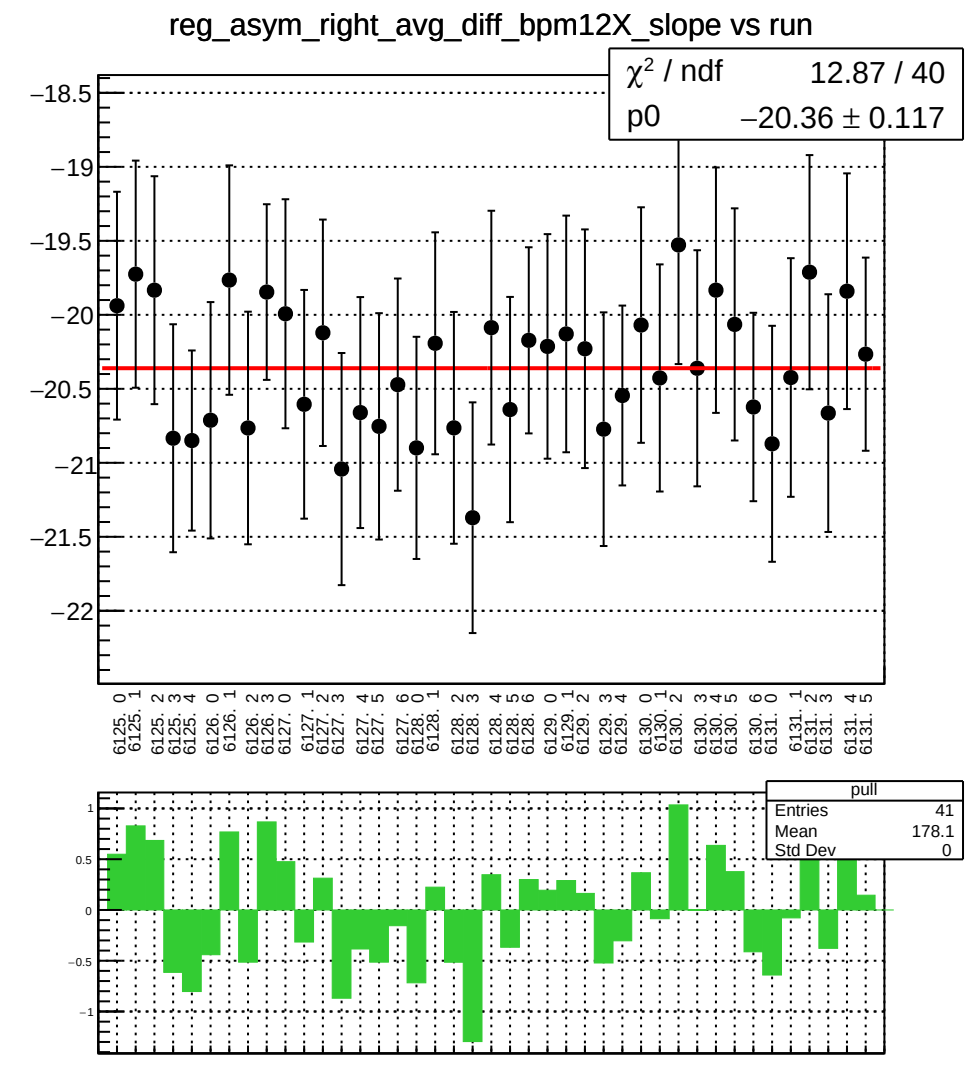

pull1D
Entries 41
Mean 0.005208
Std Dev 0.6063

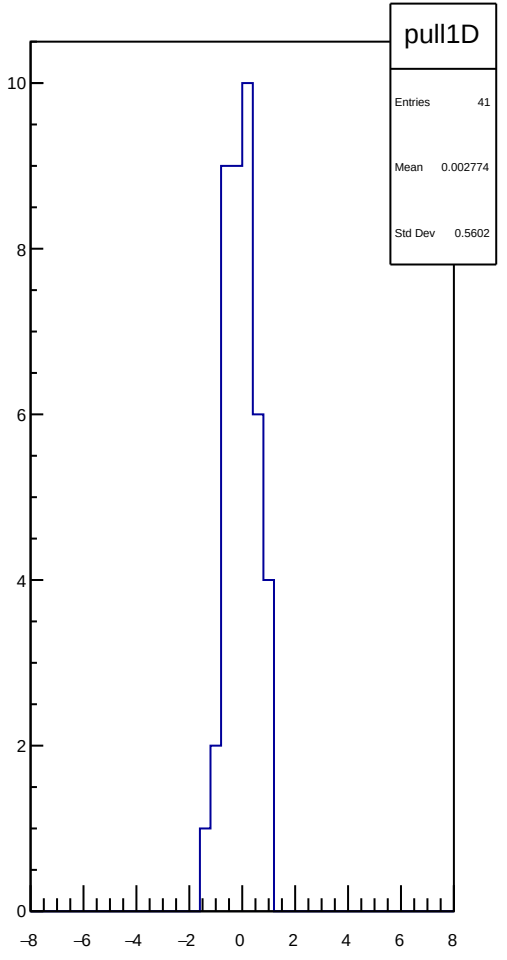

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.09 / 40
p0 83.46 ± 1.489
pull
Entries 41
Mean 53.75
Std Dev 0

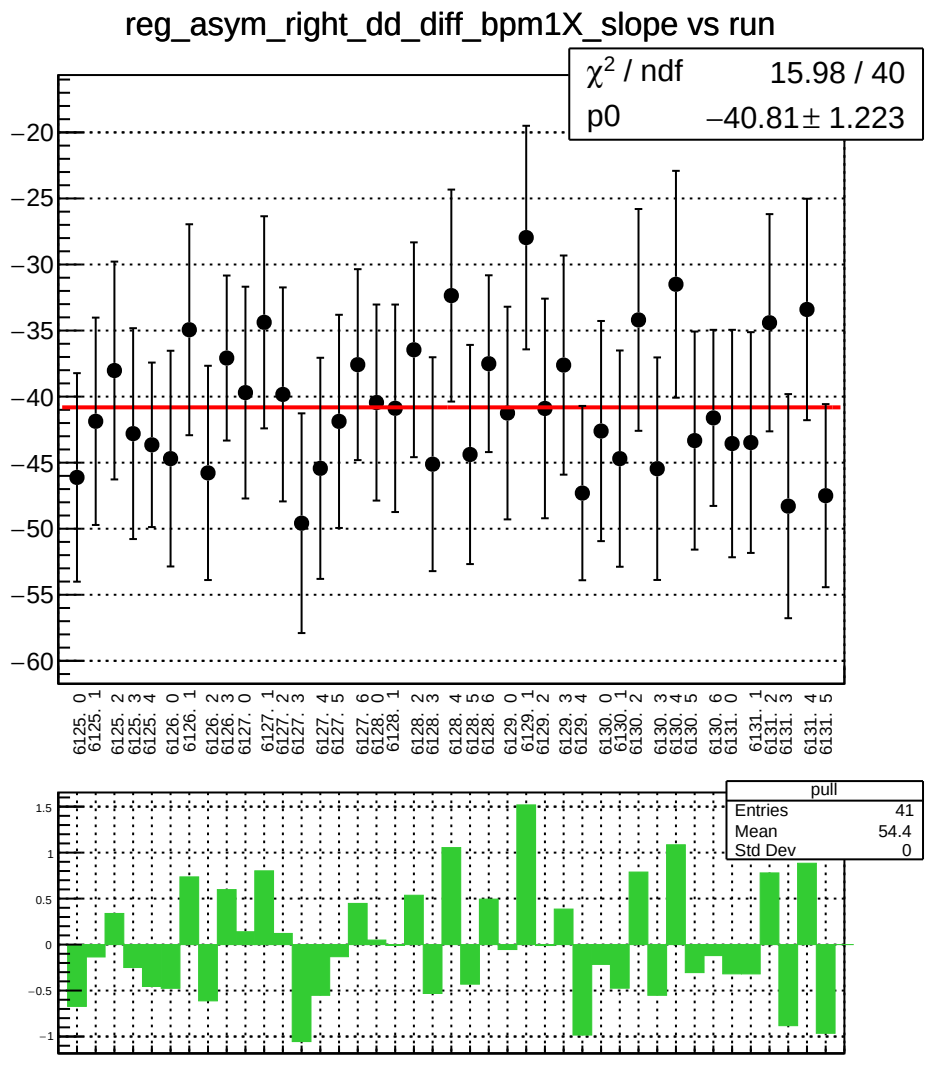

pull1D
Entries 41
Mean −0.01098
Std Dev 0.565

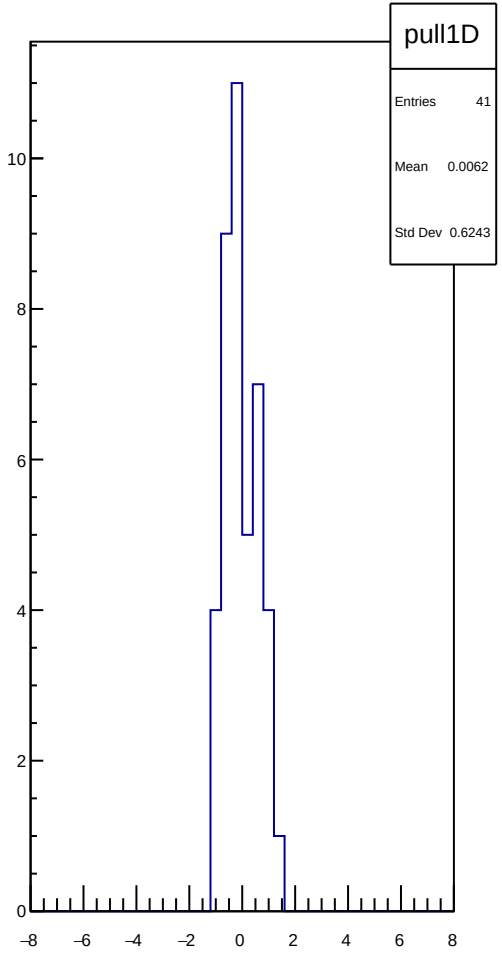

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.72 / 40
p0 0.3125 ± 1.395
pull
Entries 41
Mean −126
Std Dev 0

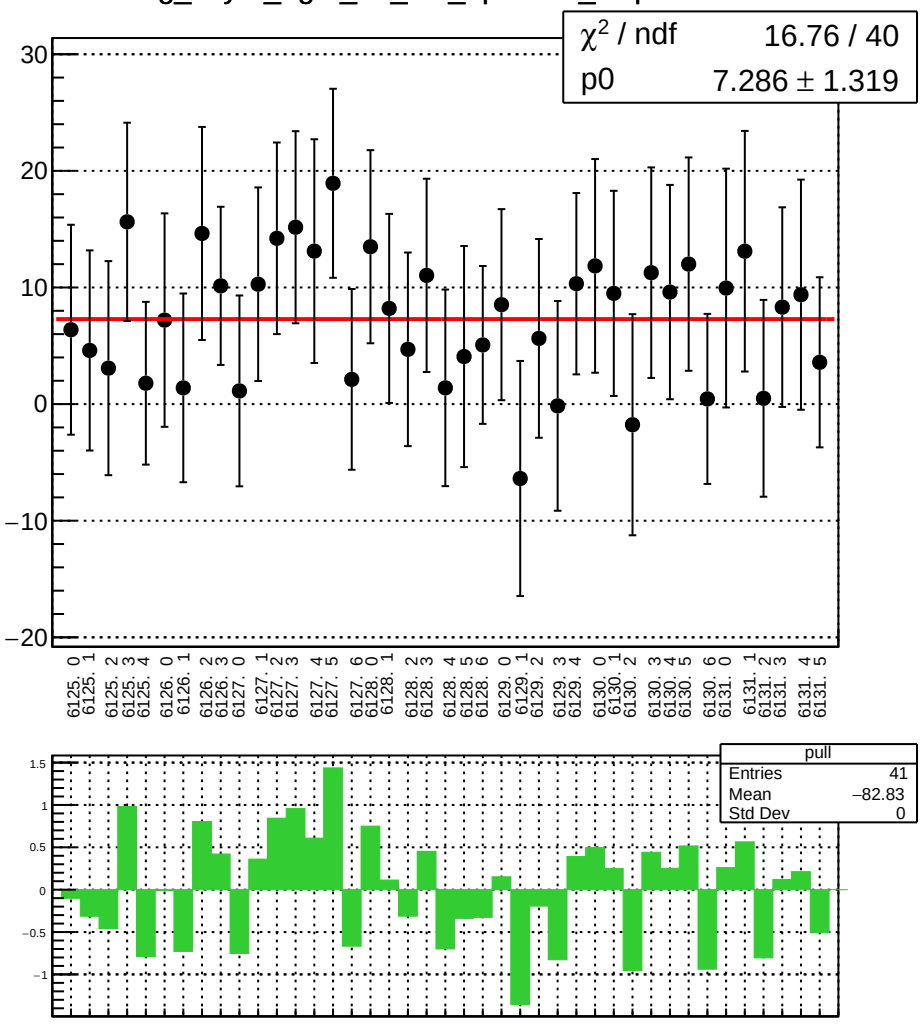

pull1D
Entries 41
Mean −0.003924
Std Dev 0.6192

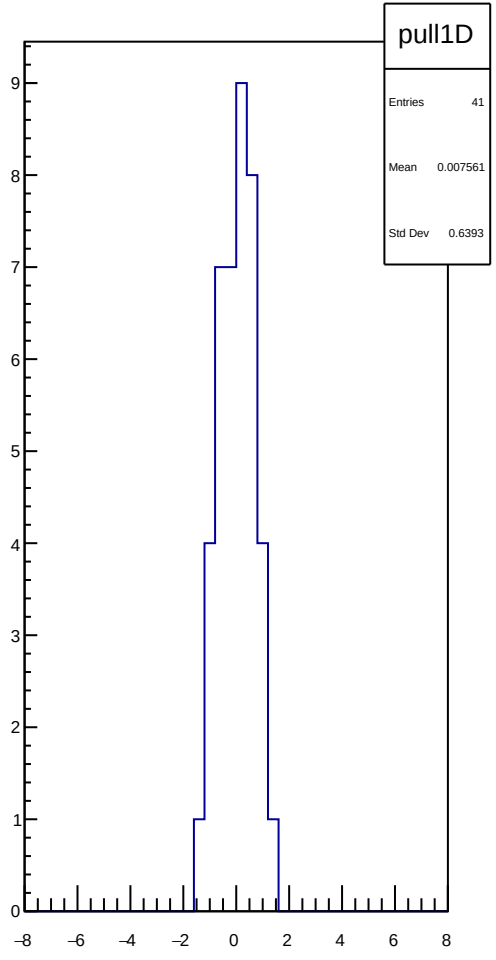

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 12.87 / 40
p0 −20.36 ± 0.117
−18.5
−19
−19.5
−20
−20.5
−21
−21.5
−22
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 178.1
Std Dev 0
1
0.5
0
−0.5
−1

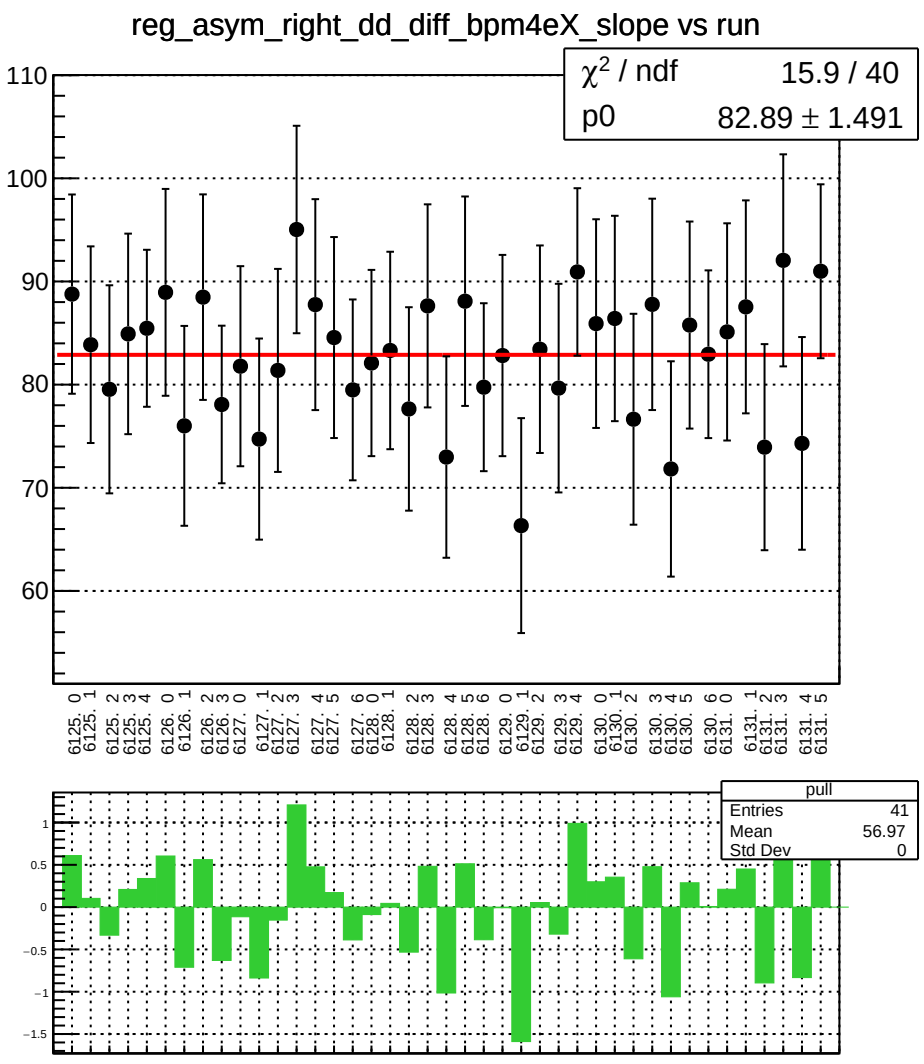

pull1D
Entries 41
Mean 0.002774
Std Dev 0.5602
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

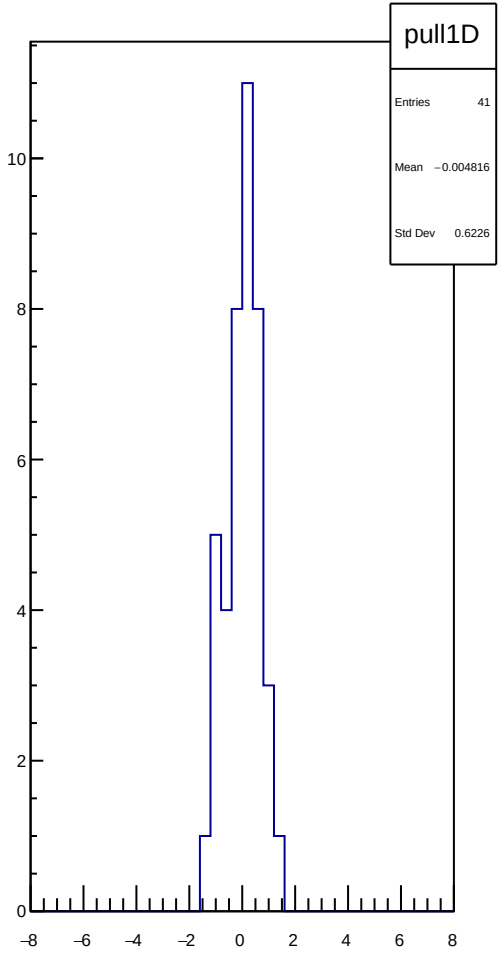

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 15.98 / 40
p0 −40.81± 1.223
pull
Entries 41
Mean 54.4
Std Dev 0

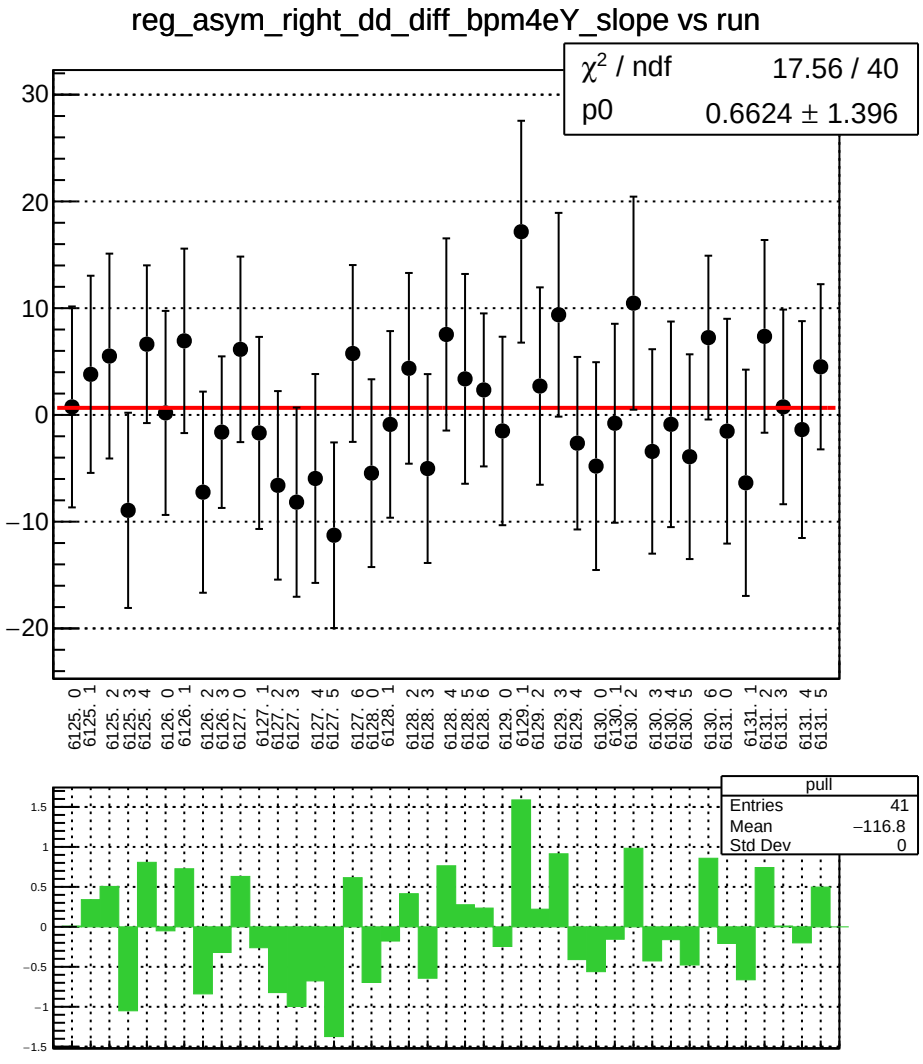

pull1D
Entries 41
Mean 0.0062
Std Dev 0.6243

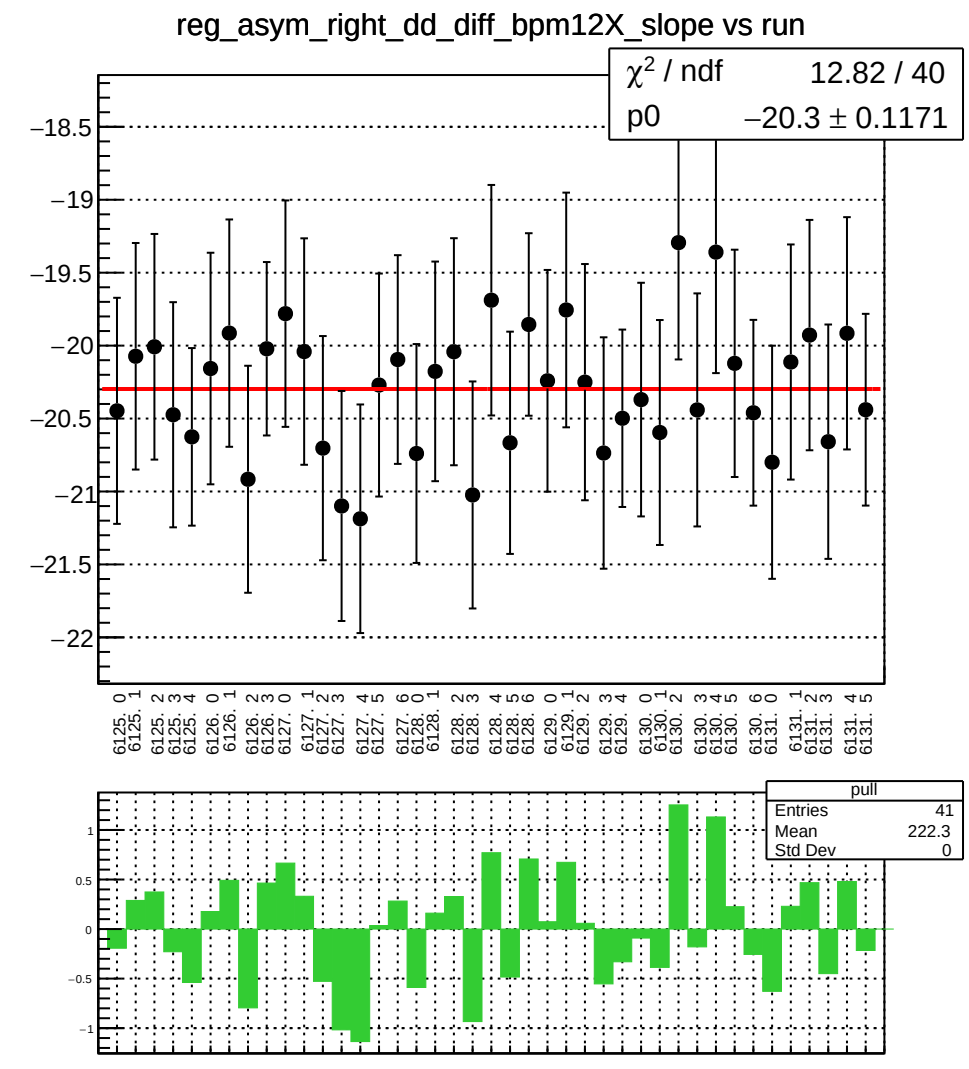

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.76 / 40
p0 7.286 ± 1.319
pull
Entries 41
Mean −82.83
Std Dev 0

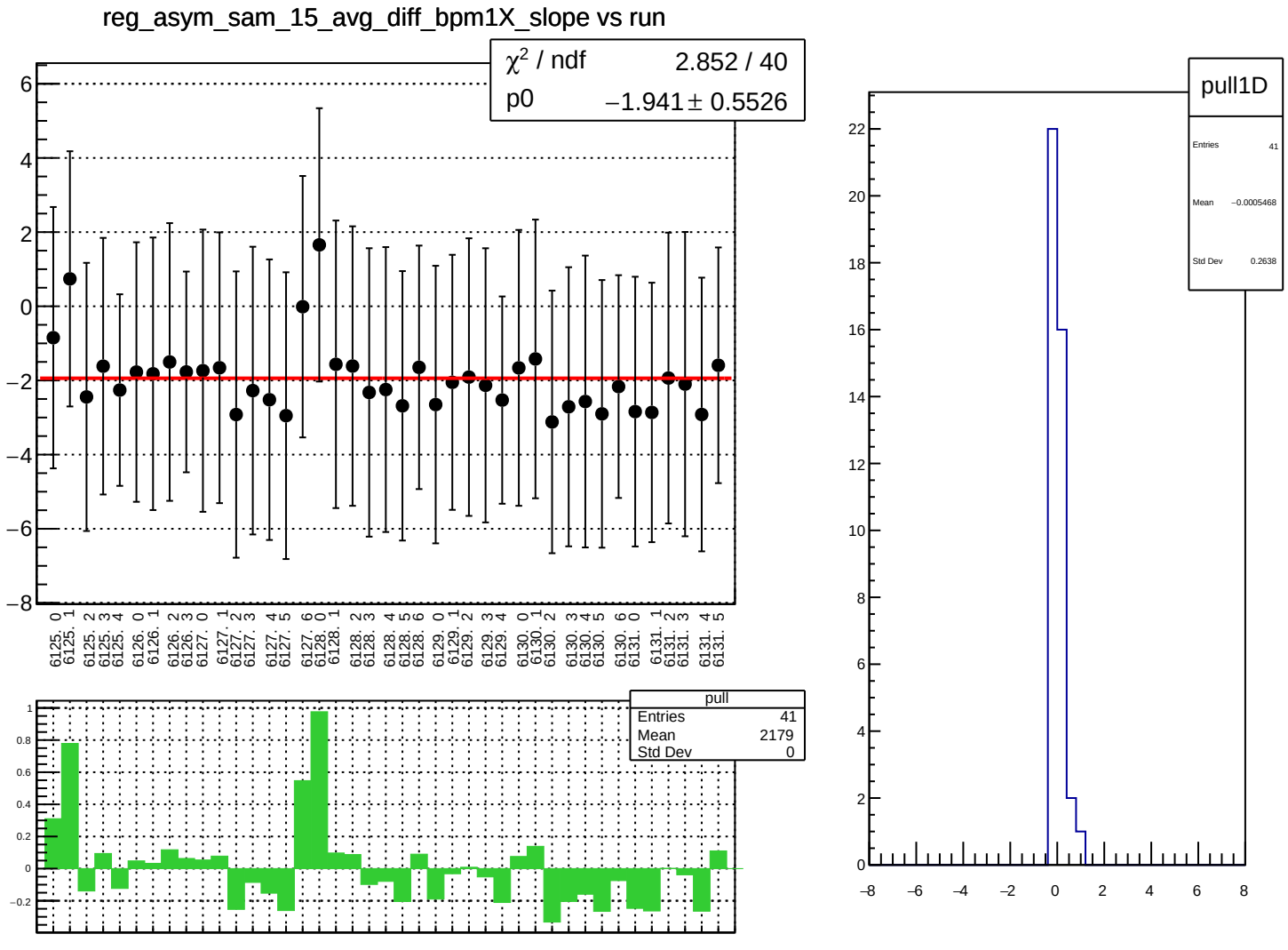

pull1D
Entries 41
Mean 0.007561
Std Dev 0.6393

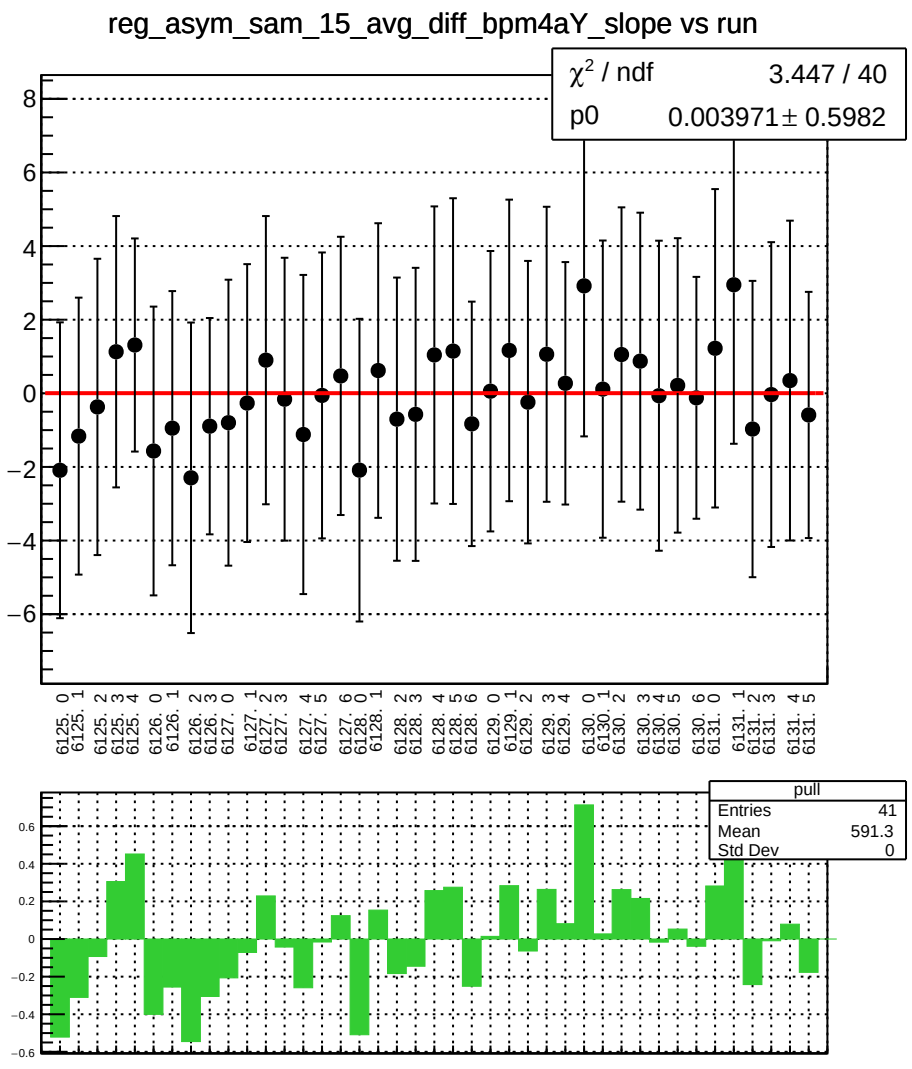

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.9 / 40
p0 82.89 ± 1.491
pull
Entries 41
Mean 56.97
Std Dev 0

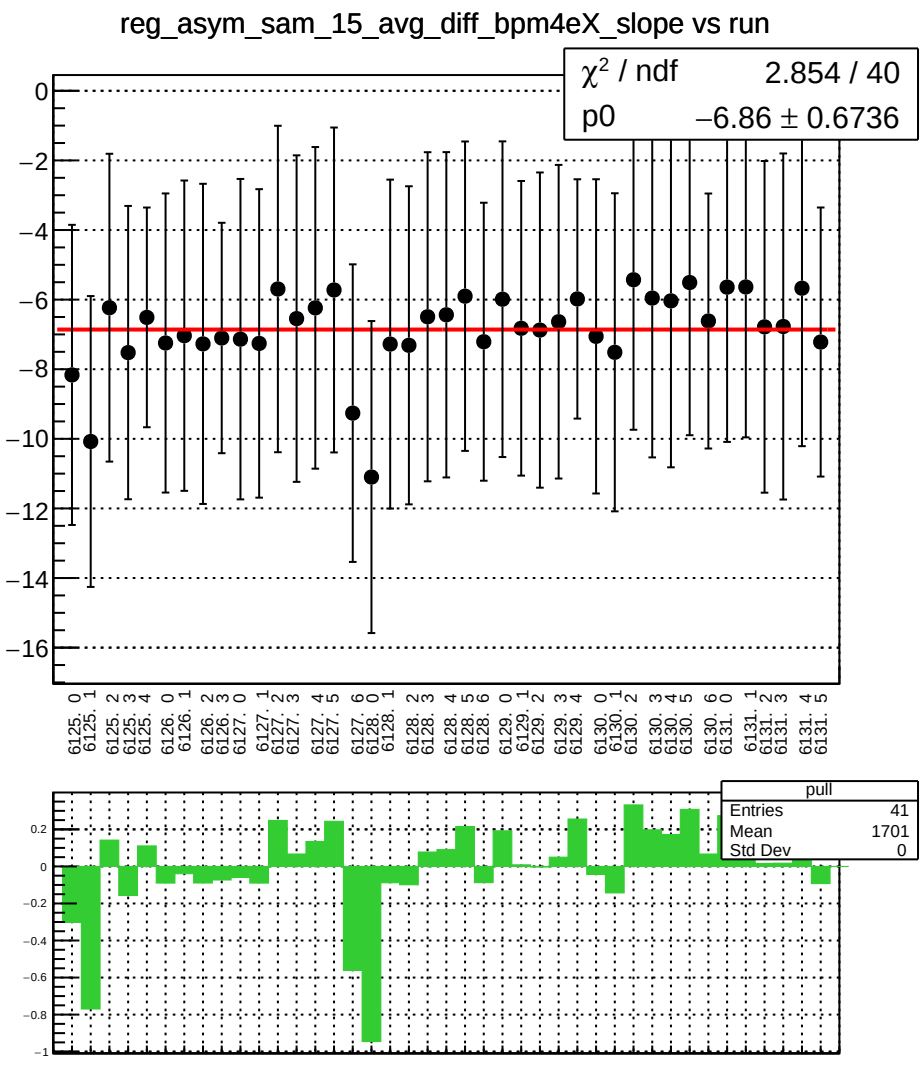

pull1D
Entries 41
Mean −0.004816
Std Dev 0.6226

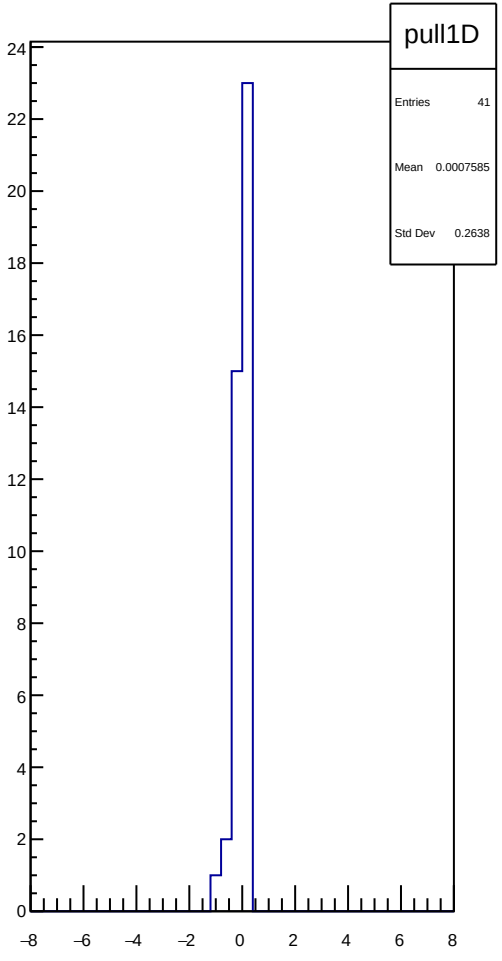

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.56 / 40
p0 0.6624 ± 1.396
pull
Entries 41
Mean −116.8
Std Dev 0
pull1D
Entries 41
Mean −0.006574
Std Dev 0.6544

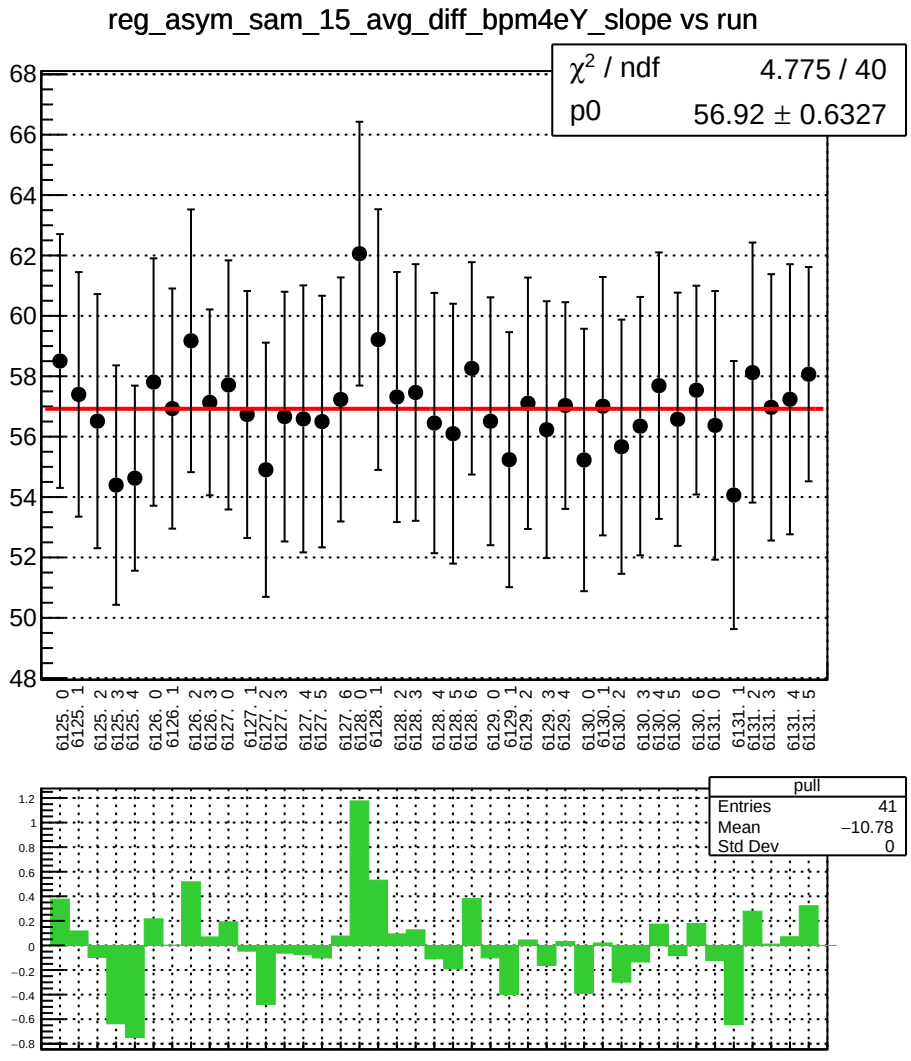

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 12.82 / 40
p0 −20.3 ± 0.1171
−18.5
−19
−19.5
−20
−20.5
−21
−21.5
−22
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 222.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.00324
Std Dev 0.5592
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

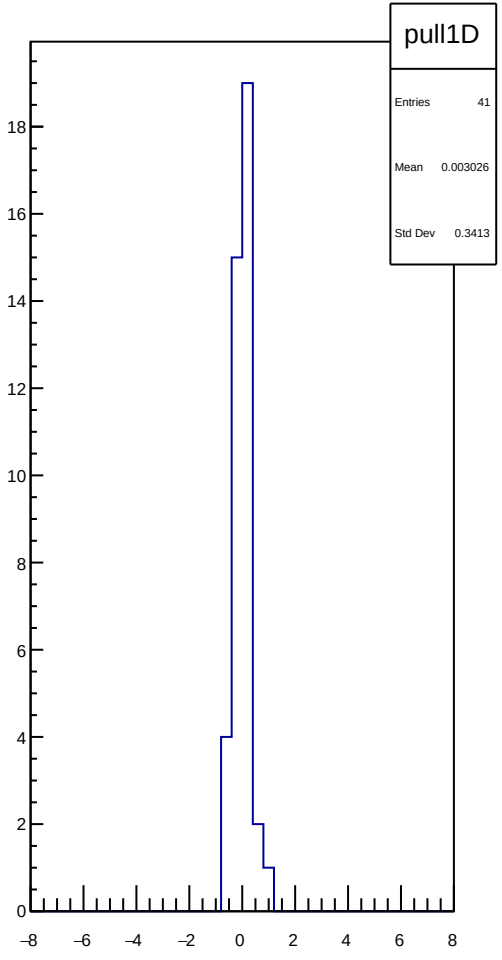

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 2.852 / 40
p0 −1.941 ± 0.5526
pull
Entries 41
Mean 2179
Std Dev 0
pull1D
Entries 41
Mean −0.0005468
Std Dev 0.2638

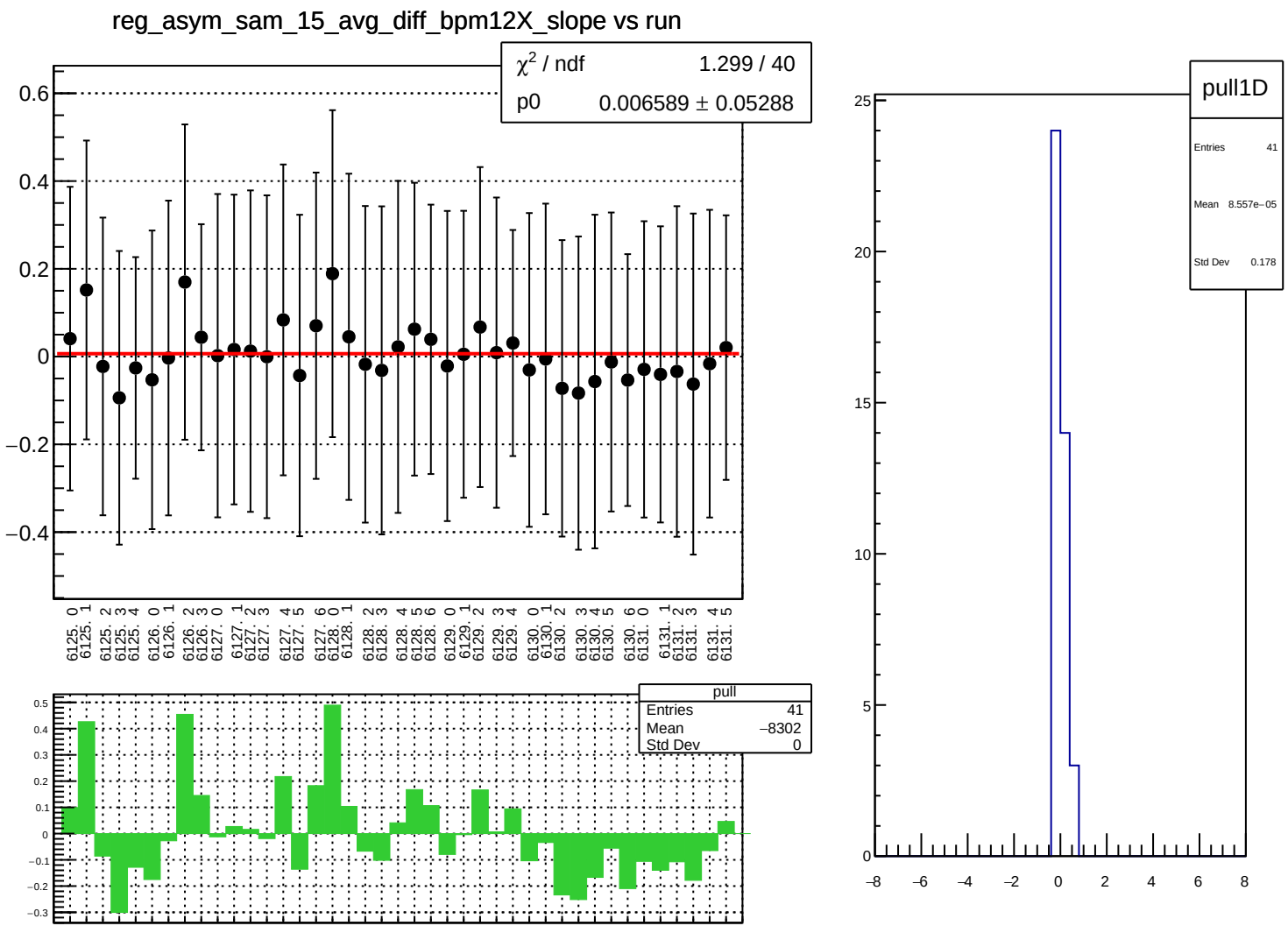

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.447 / 40
p0 0.003971 ± 0.5982
pull
Entries 41
Mean 591.3
Std Dev 0
pull1D
Entries 41
Mean 0.002266
Std Dev 0.2899

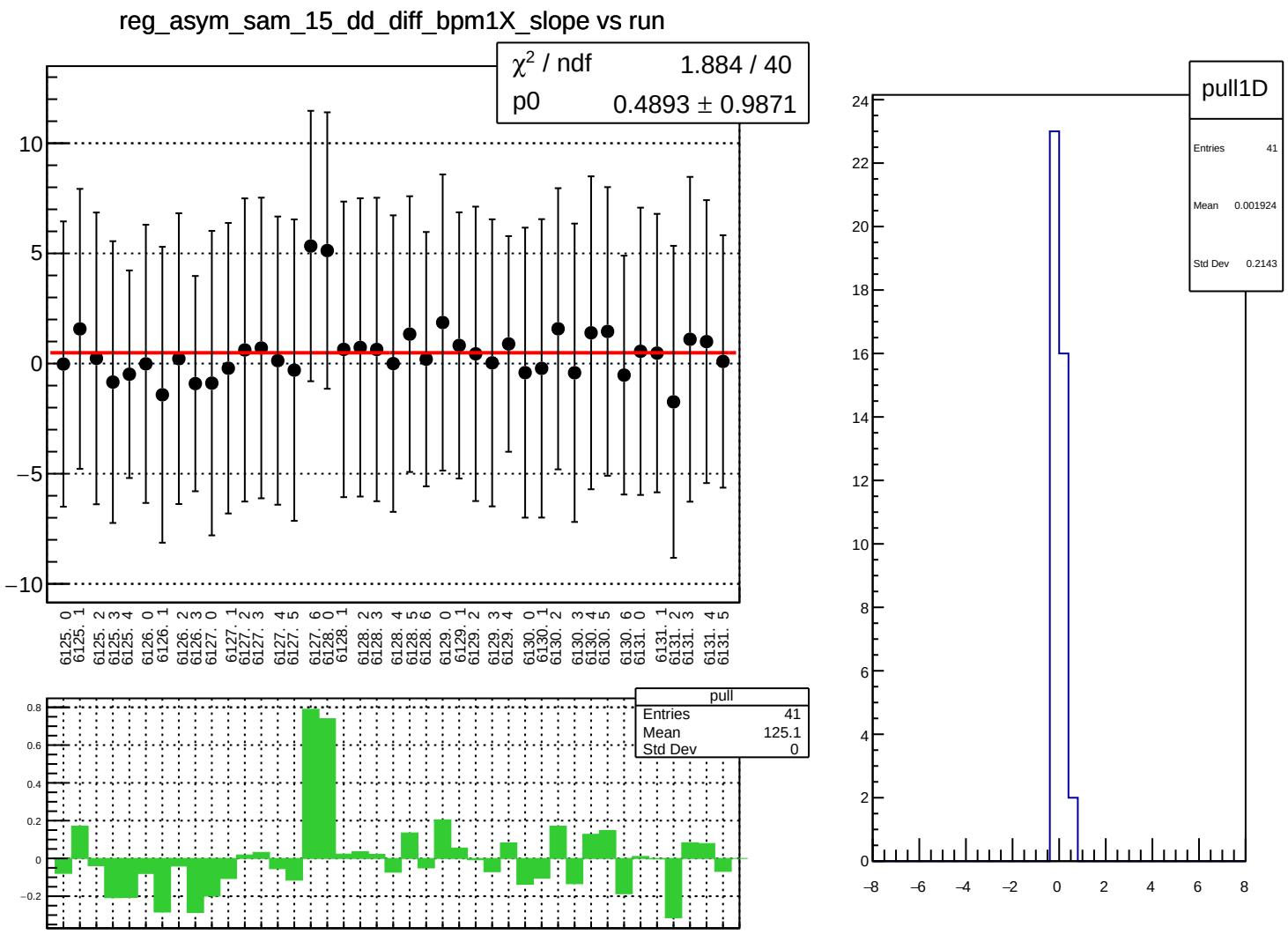

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.854 / 40
p0 −6.86 ± 0.6736
pull
Entries 41
Mean 1701
Std Dev 0

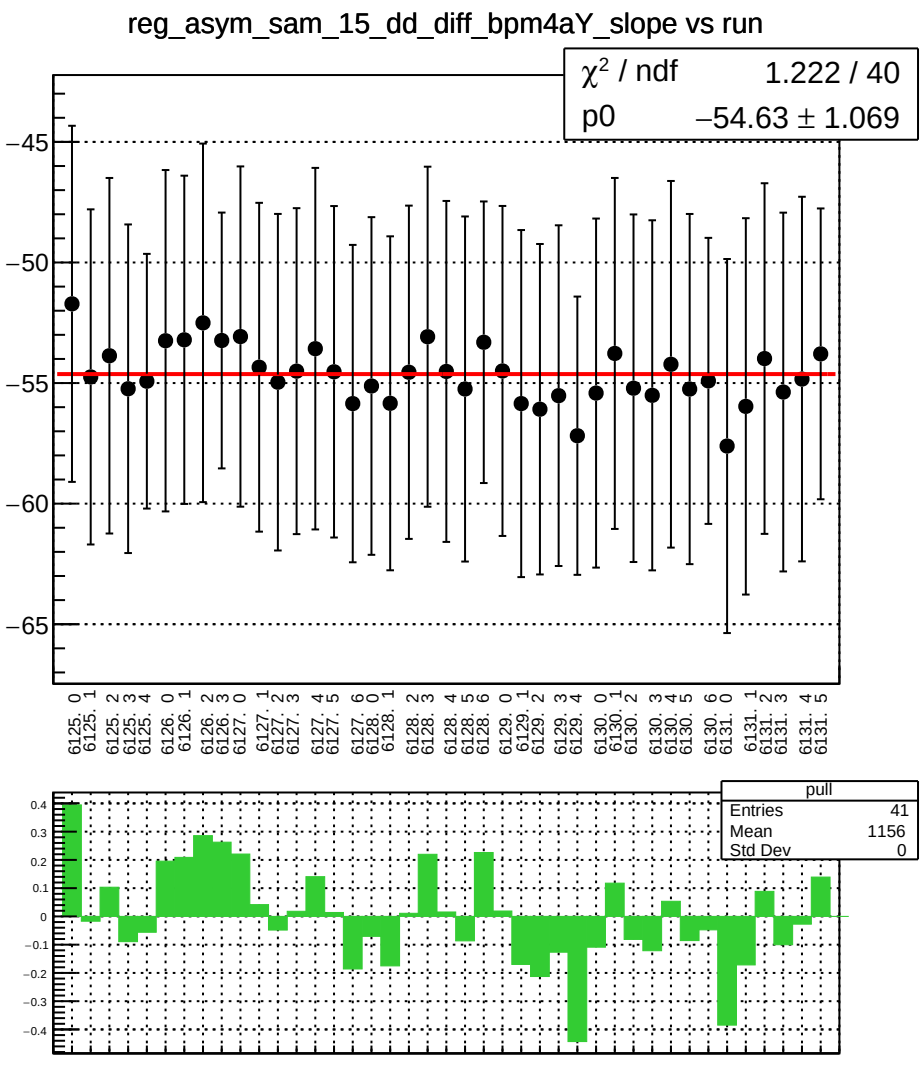

pull1D
Entries 41
Mean 0.0007585
Std Dev 0.2638

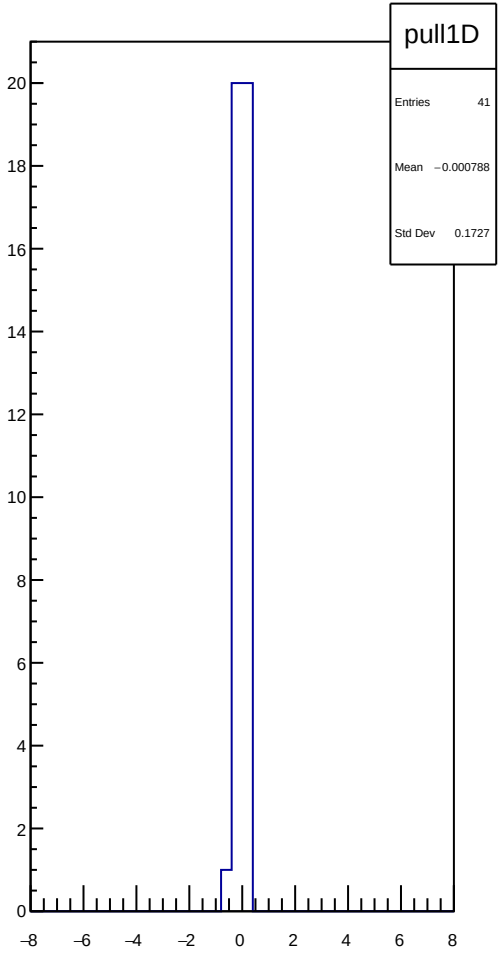

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.775 / 40
p0 56.92 ± 0.6327
pull
Entries 41
Mean −10.78
Std Dev 0

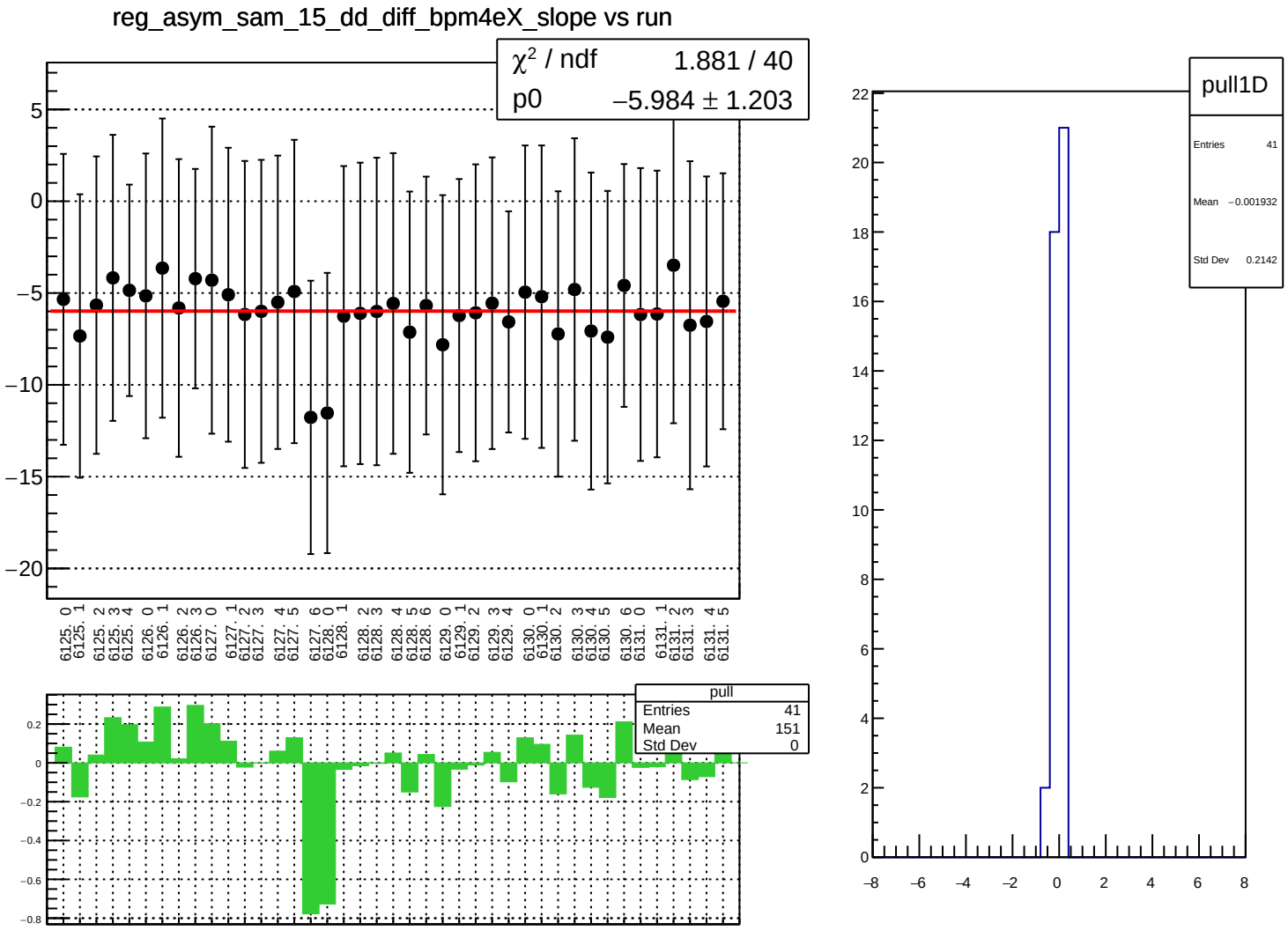

pull1D
Entries 41
Mean 0.003026
Std Dev 0.3413

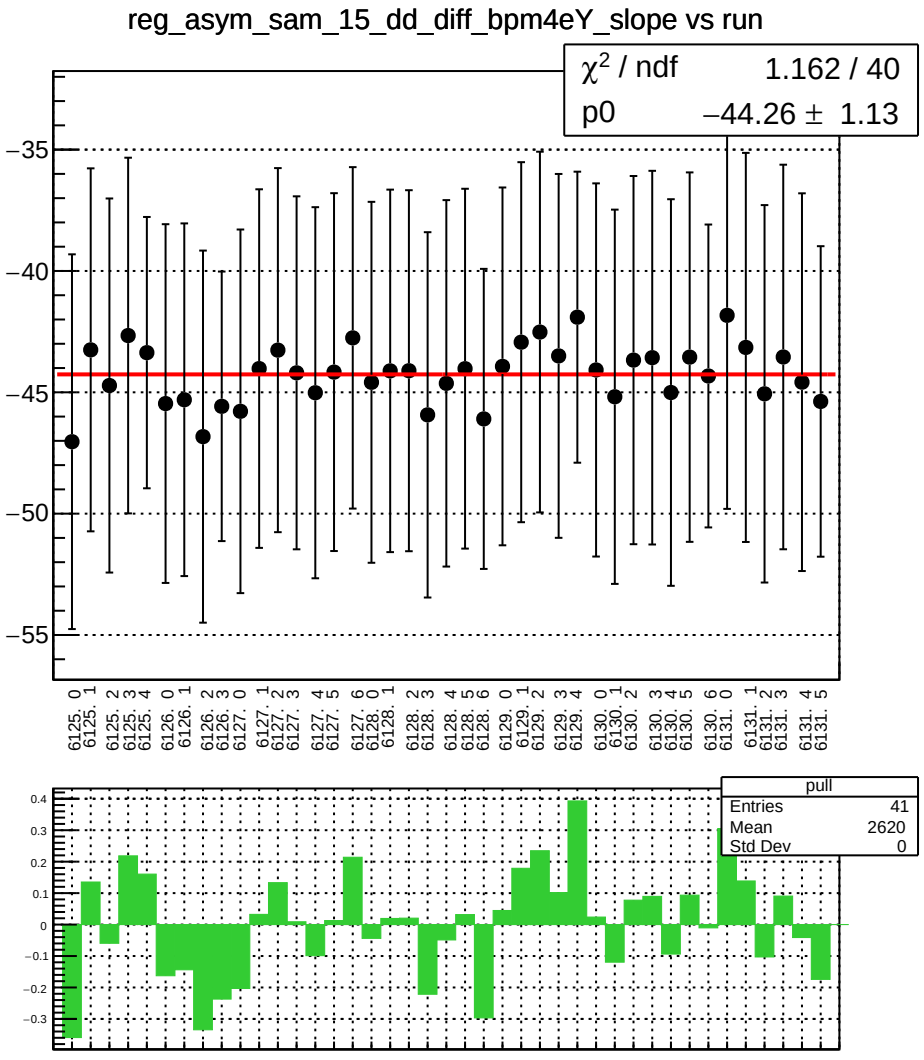

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 1.299 / 40
p0 0.006589 ± 0.05288
0.6
0.4
0.2
0
−0.2
−0.4
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −8302
Std Dev 0
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 41
Mean 8.557e−05
Std Dev 0.178
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

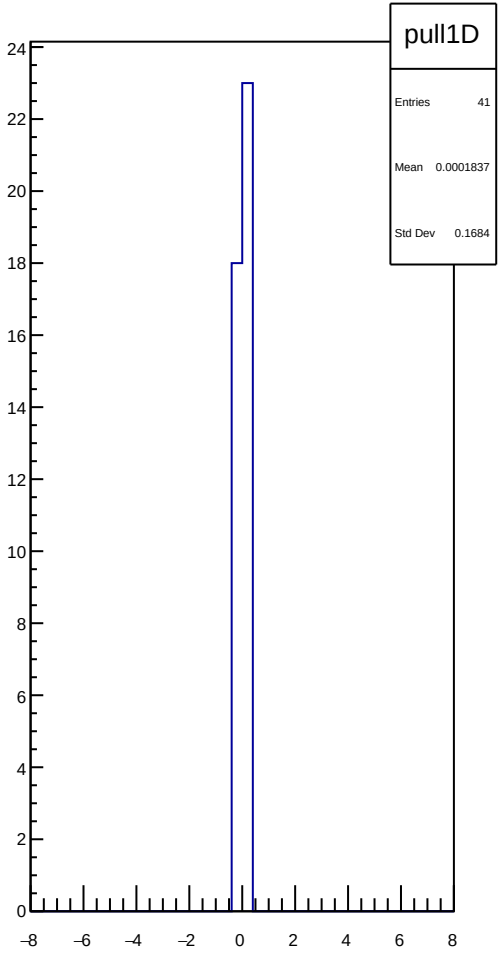

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 1.884 / 40
p0 0.4893 ± 0.9871
pull
Entries 41
Mean 125.1
Std Dev 0
pull1D
Entries 41
Mean 0.001924
Std Dev 0.2143

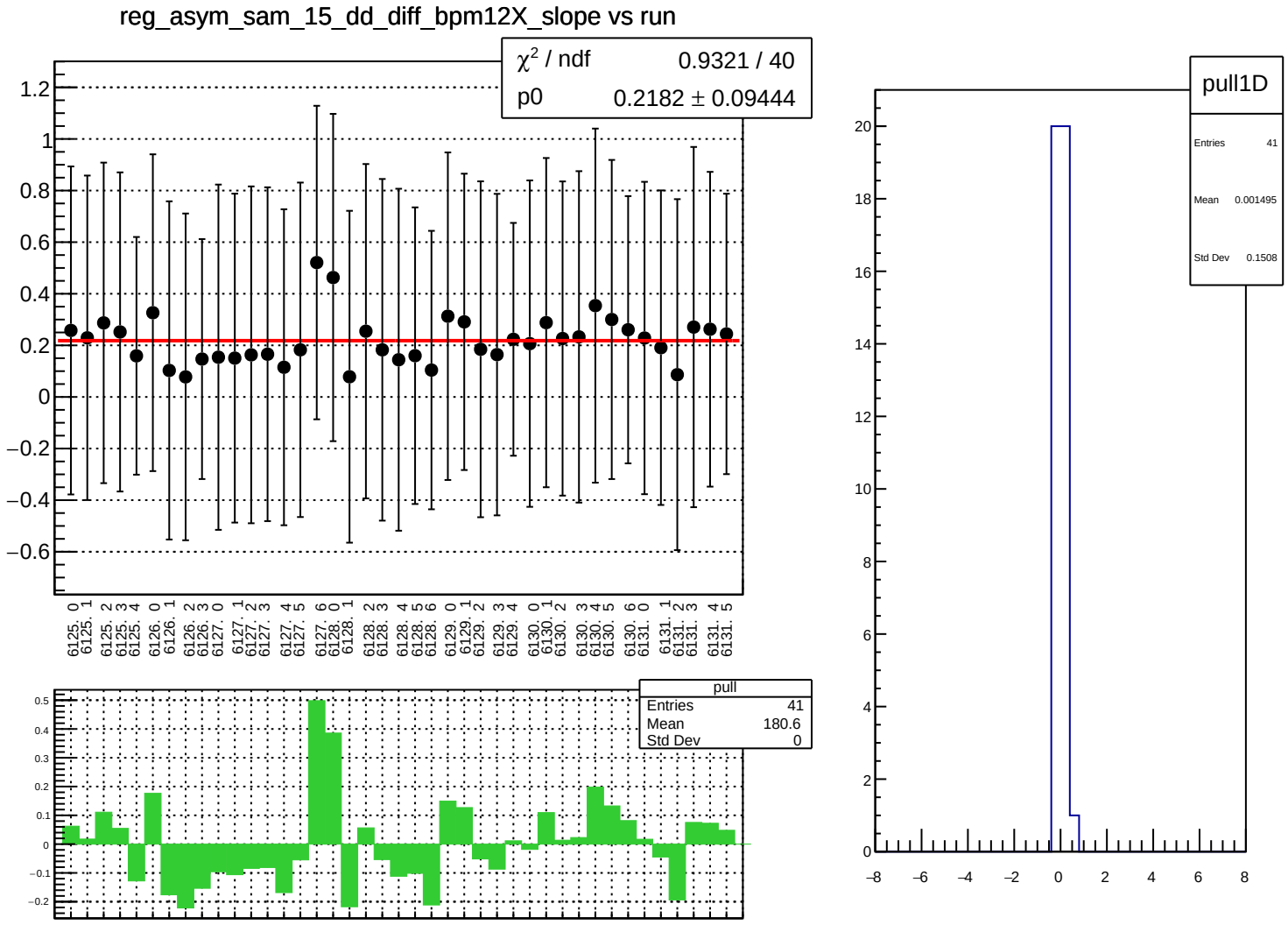

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.222 / 40
p0 −54.63 ± 1.069
−45
−50
−55
−60
−65
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1156
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

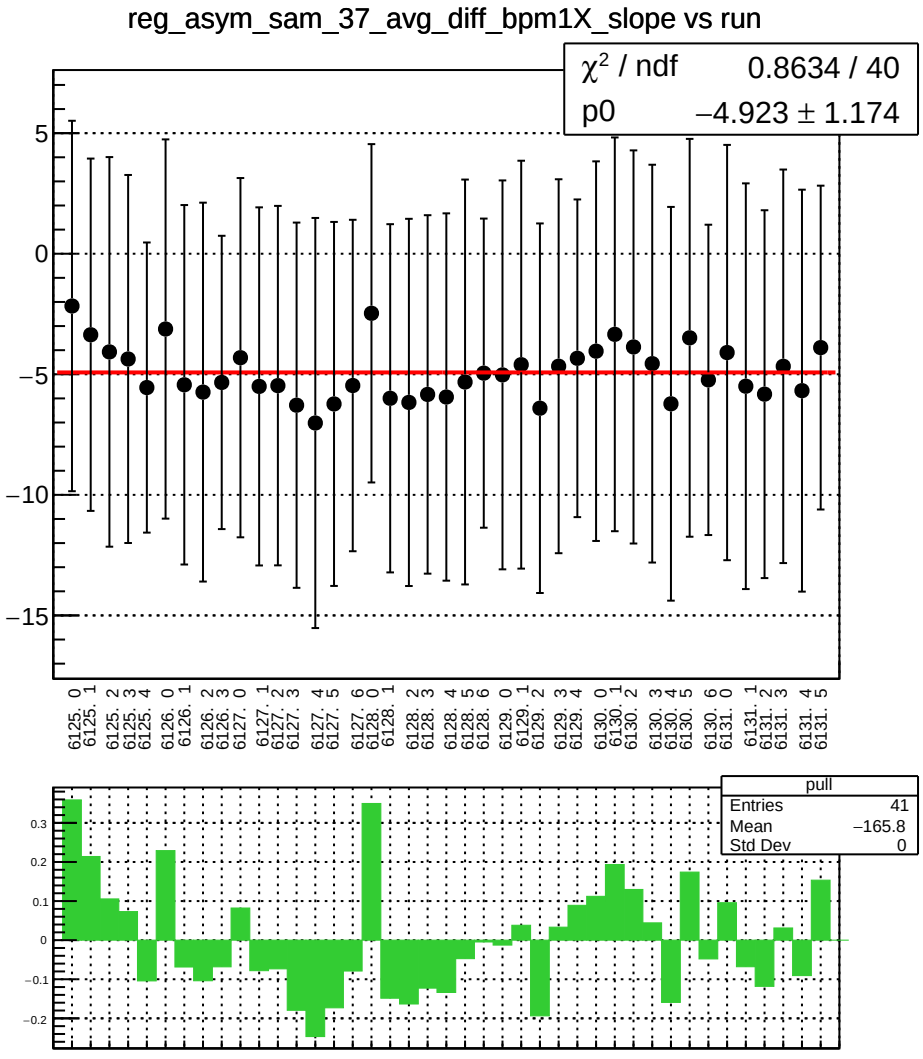

pull1D
Entries 41
Mean −0.000788
Std Dev 0.1727
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

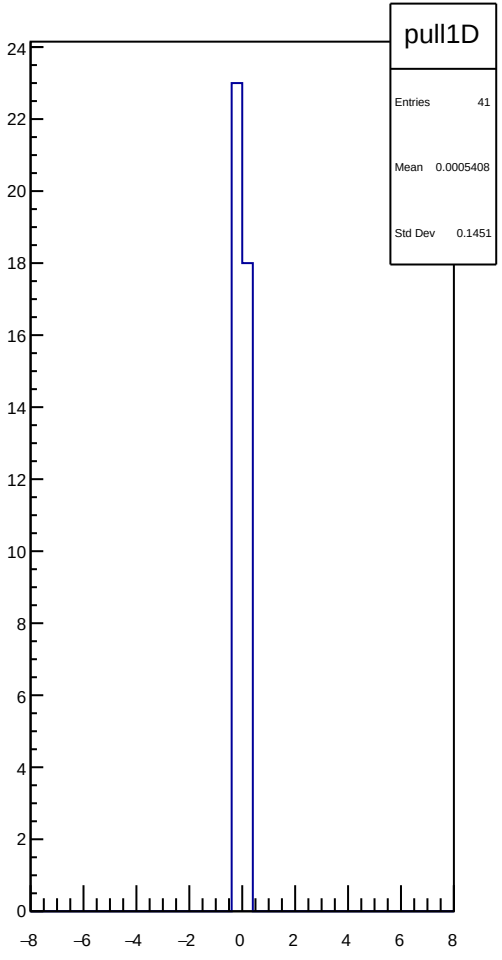

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.881 / 40
p0 −5.984 ± 1.203
5
0
−5
−10
−15
−20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 151
Std Dev 0
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean −0.001932
Std Dev 0.2142
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

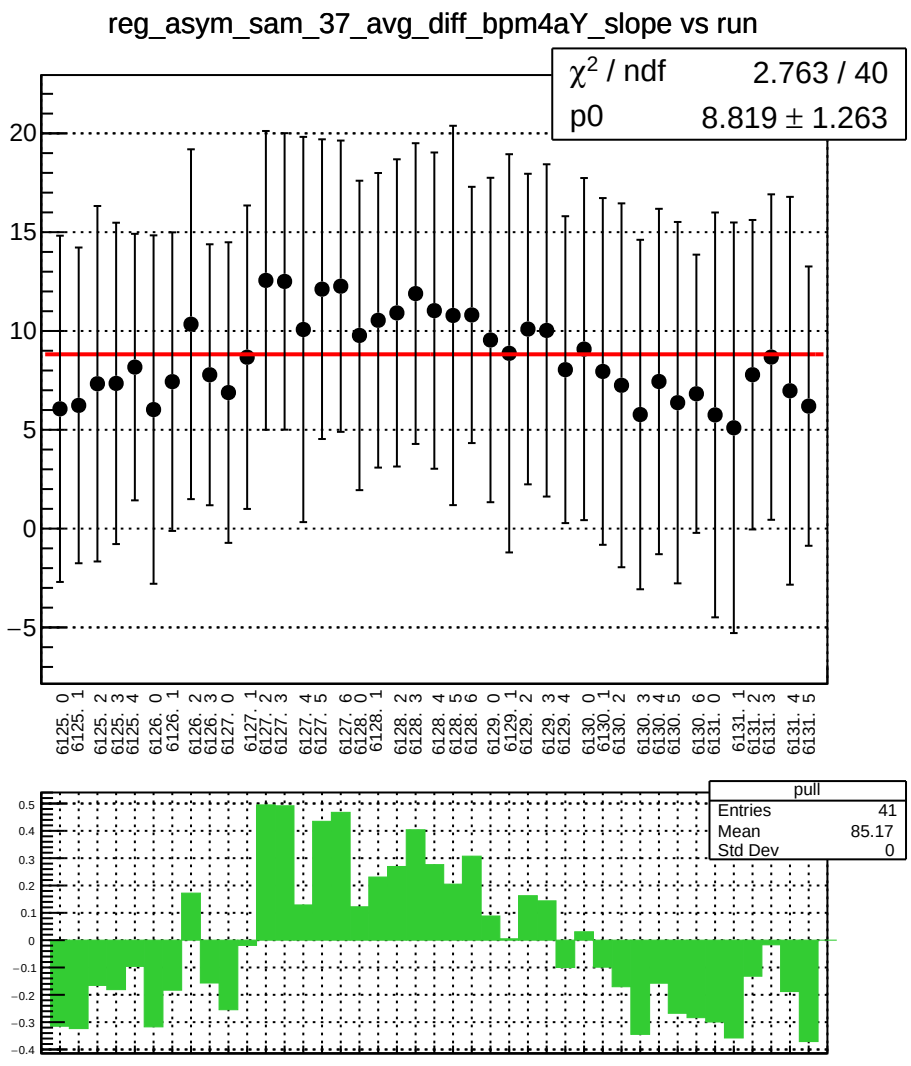

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.162 / 40
p0 −44.26 ± 1.13
−35
−40
−45
−50
−55
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 2620
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

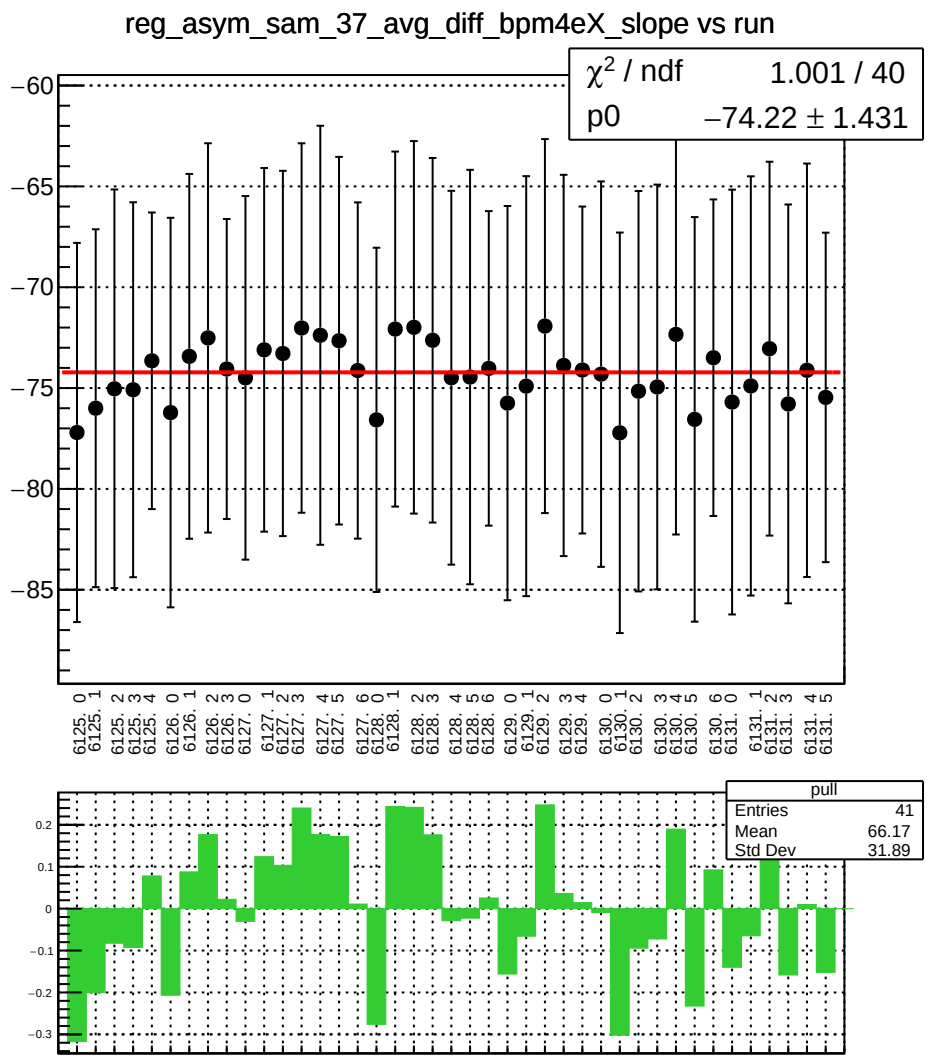

pull1D
Entries 41
Mean 0.0001837
Std Dev 0.1684
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

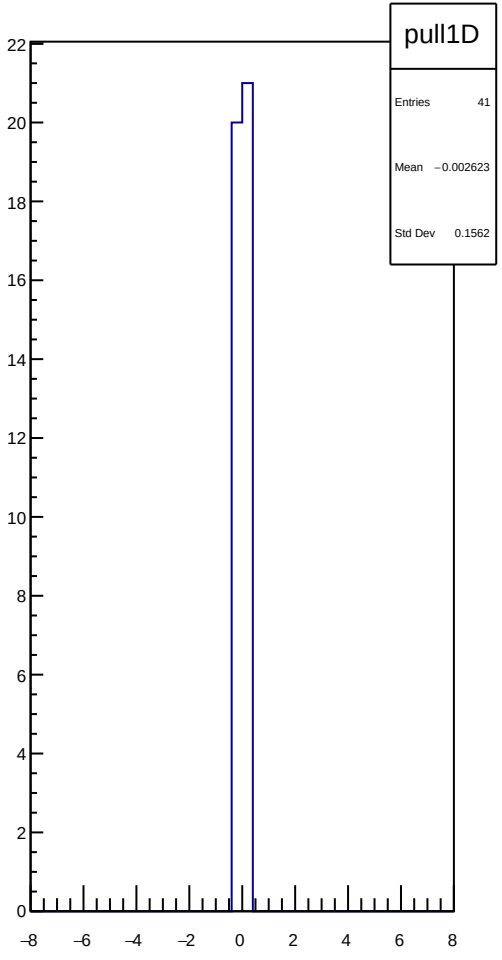

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 0.9321 / 40
p0 0.2182 ± 0.09444
pull
Entries 41
Mean 180.6
Std Dev 0
pull1D
Entries 41
Mean 0.001495
Std Dev 0.1508

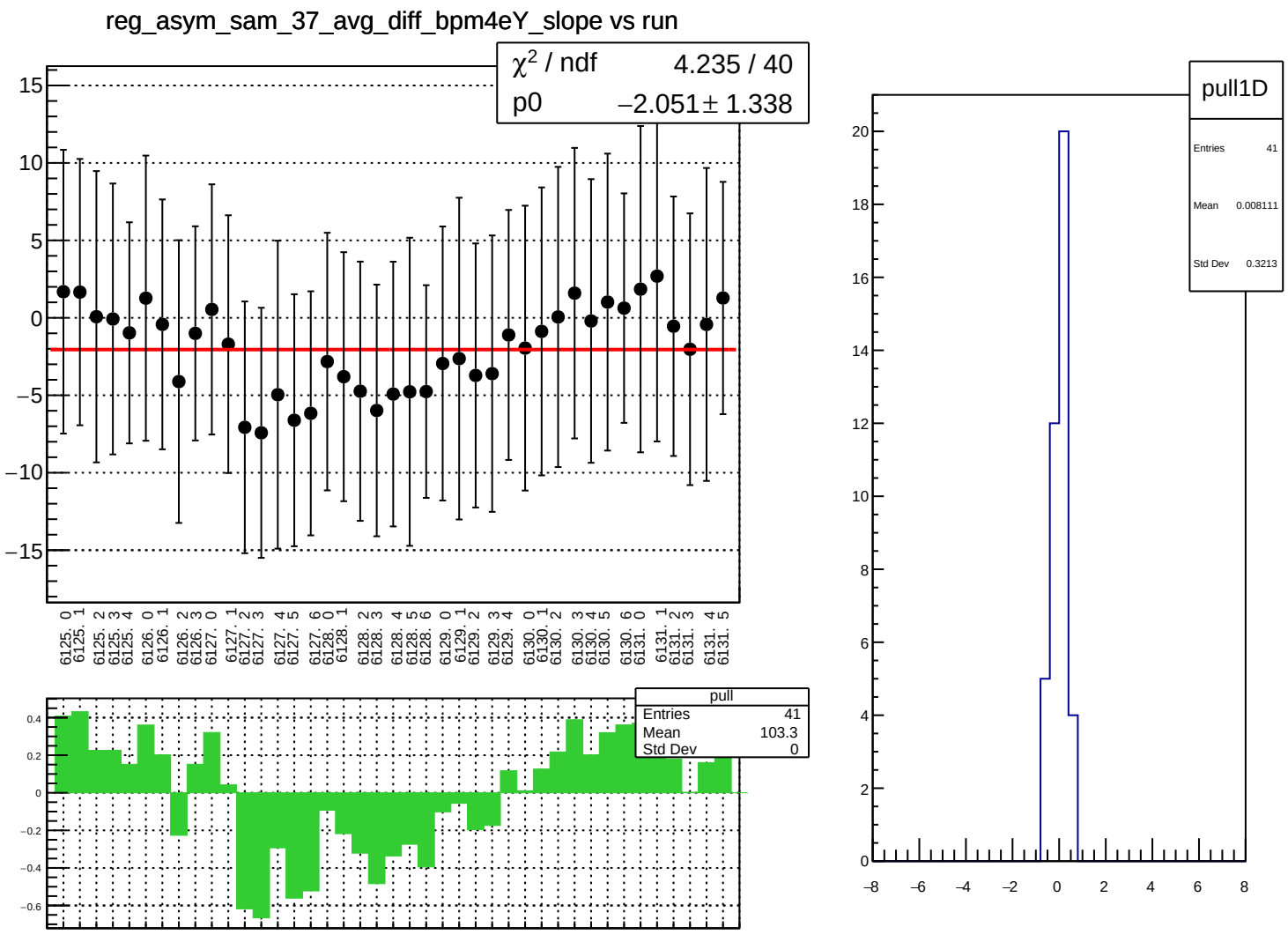

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 0.8634 / 40
p0 −4.923 ± 1.174
pull
Entries 41
Mean −165.8
Std Dev 0

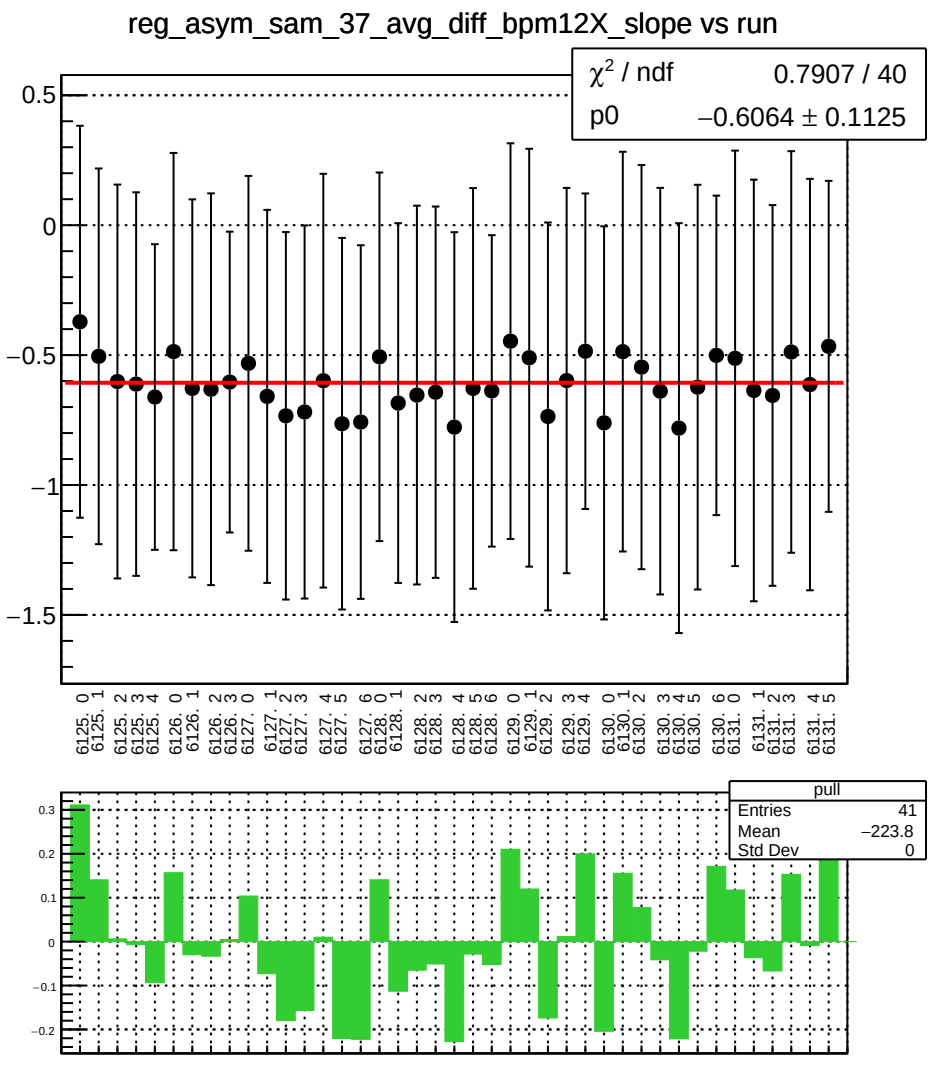

pull1D
Entries 41
Mean 0.0005408
Std Dev 0.1451

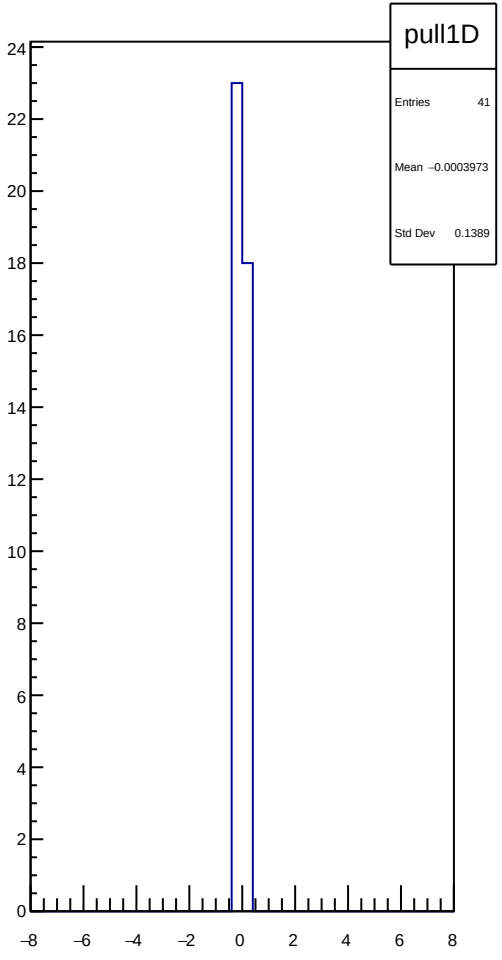

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.763 / 40
p0 8.819 ± 1.263
pull
Entries 41
Mean 85.17
Std Dev 0
pull1D
Entries 41
Mean −0.008871
Std Dev 0.2594

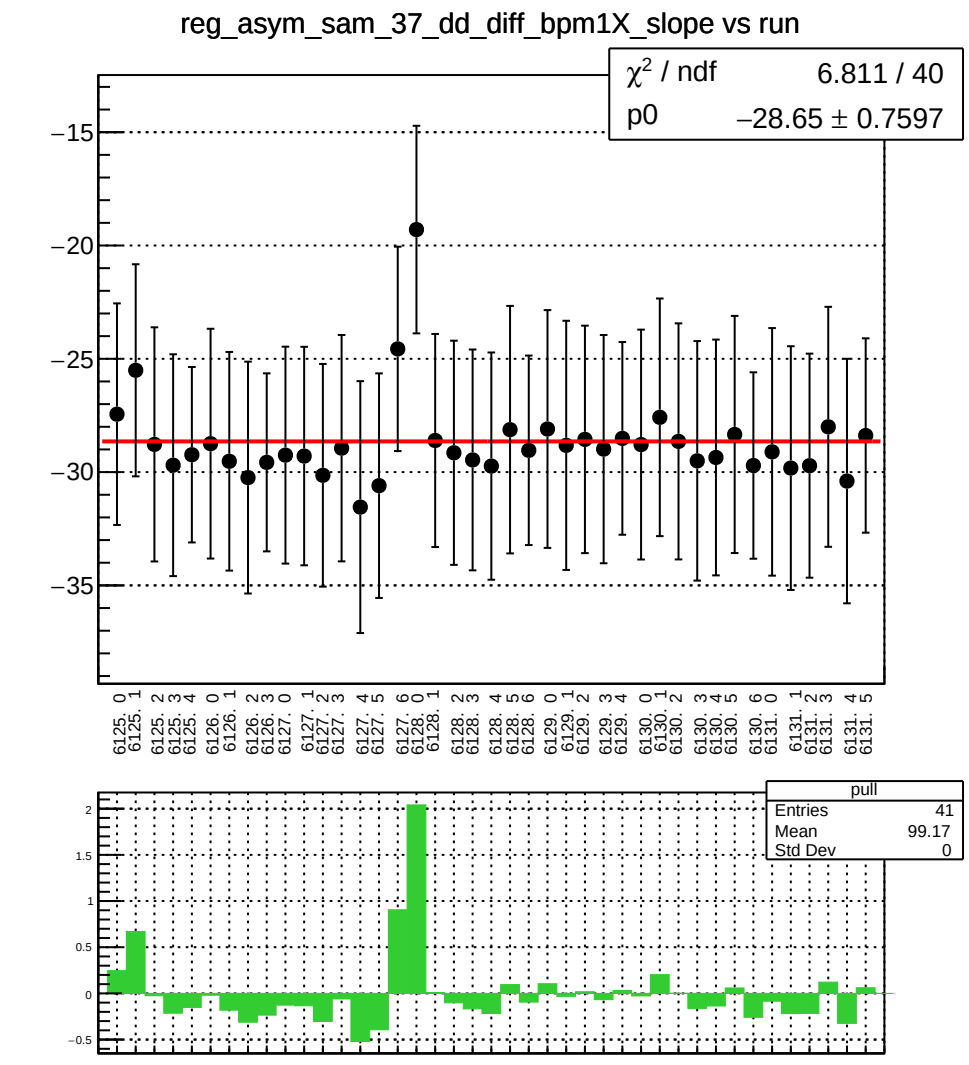

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.001 / 40
p0 −74.22 ± 1.431
pull
Entries 41
Mean 66.17
Std Dev 31.89

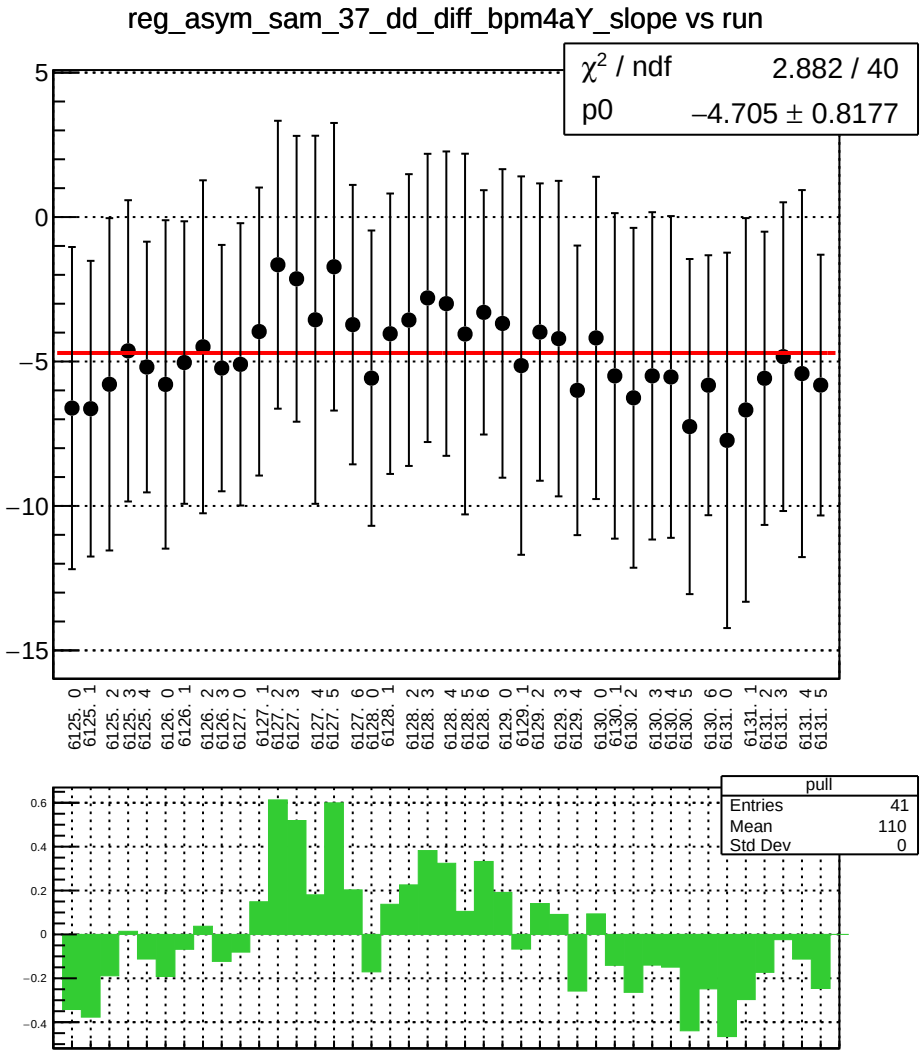

pull1D
Entries 41
Mean −0.002623
Std Dev 0.1562

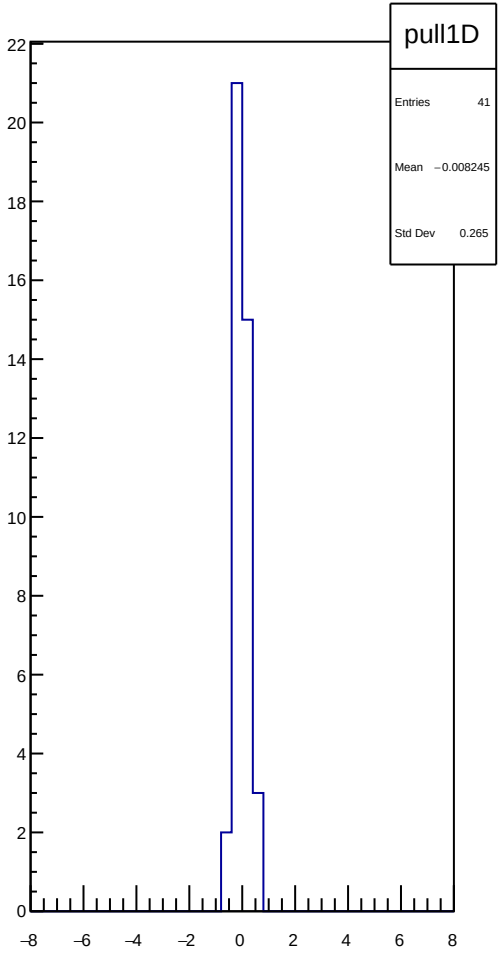

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.235 / 40
p0 −2.051± 1.338
15
10
5
0
−5
−10
−15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 103.3
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean 0.008111
Std Dev 0.3213
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

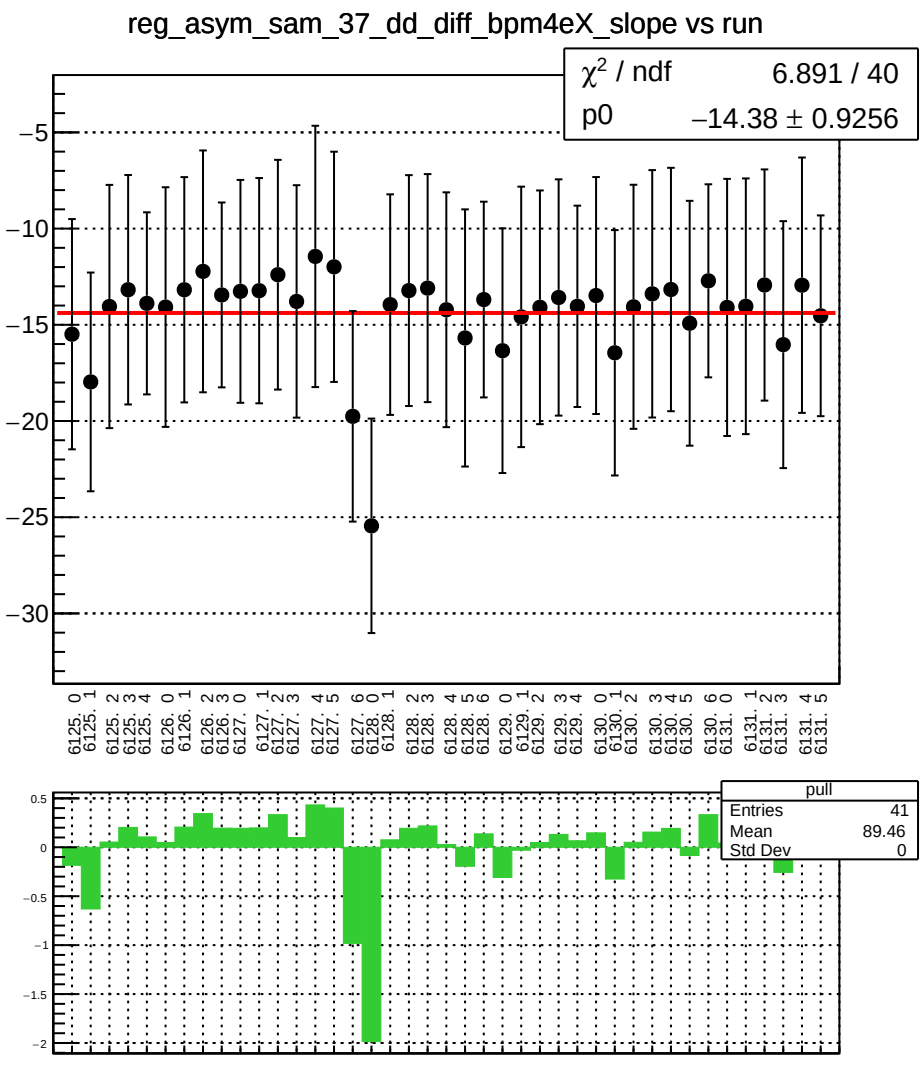

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 0.7907 / 40
p0 −0.6064 ± 0.1125
0.5
0
−0.5
−1
−1.5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −223.8
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2

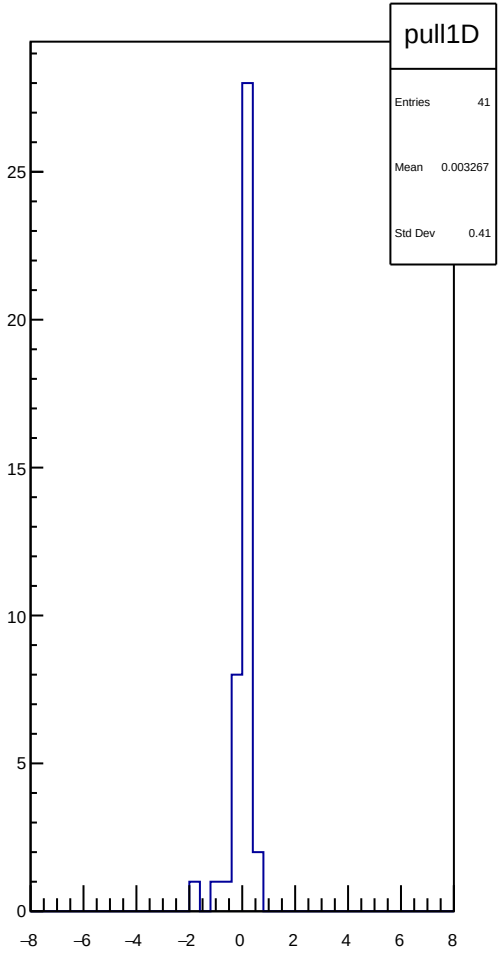

pull1D
Entries 41
Mean −0.0003973
Std Dev 0.1389
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

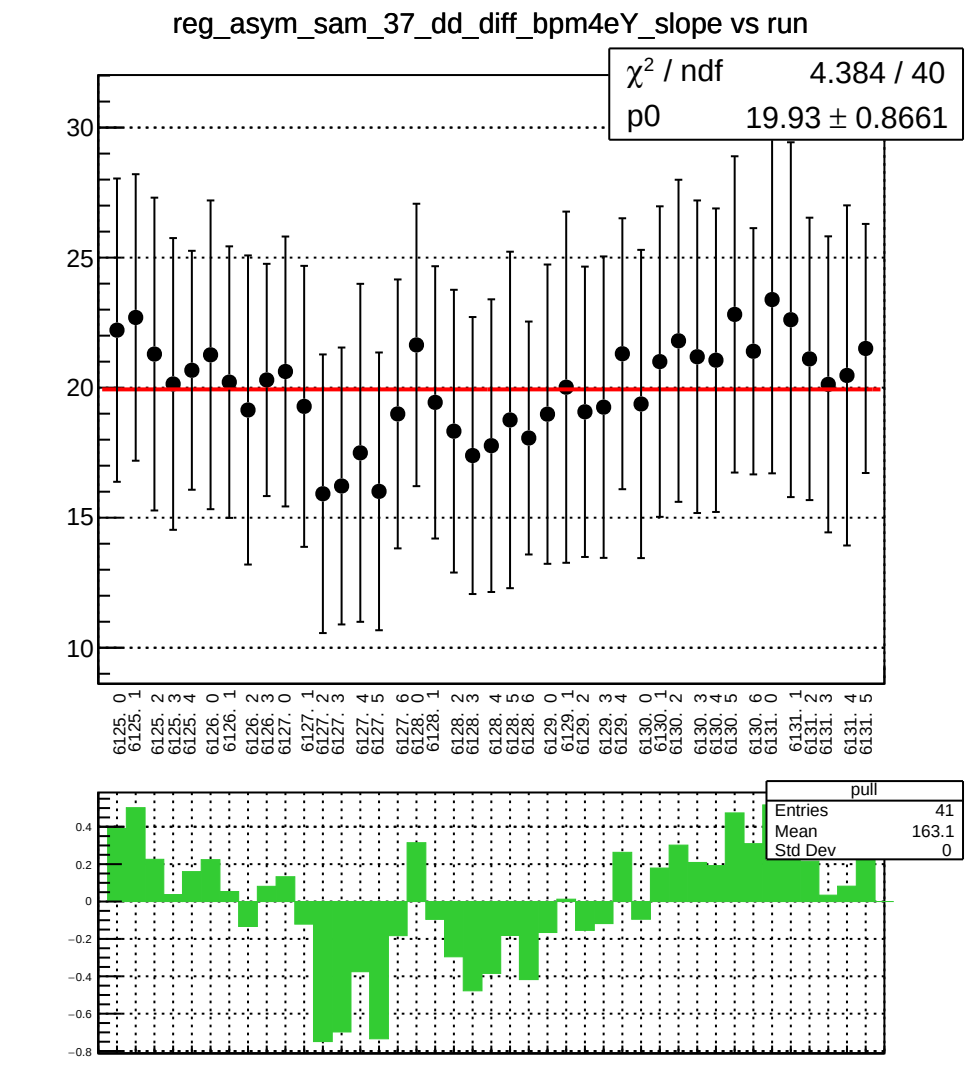

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 6.811 / 40
p0 −28.65 ± 0.7597
pull
Entries 41
Mean 99.17
Std Dev 0
pull1D
Entries 41
Mean −0.005479
Std Dev 0.4076

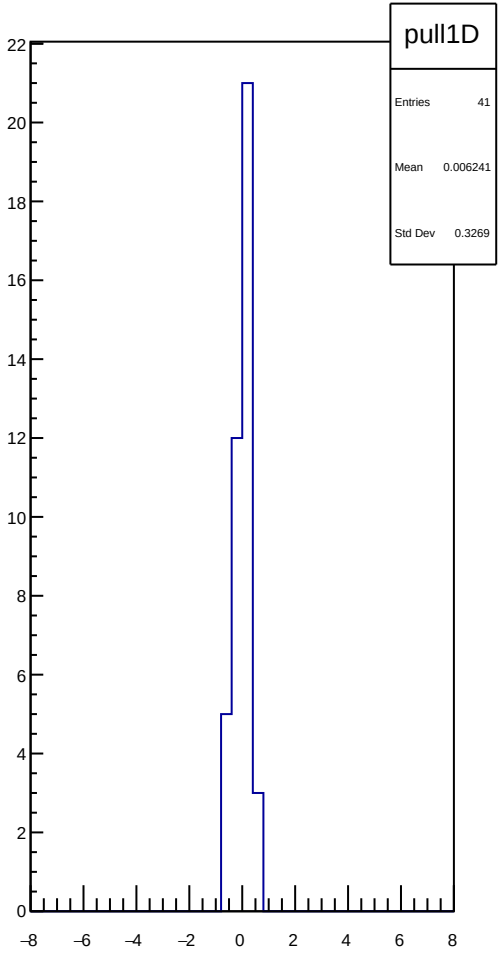

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.882 / 40
p0 −4.705 ± 0.8177
pull
Entries 41
Mean 110
Std Dev 0

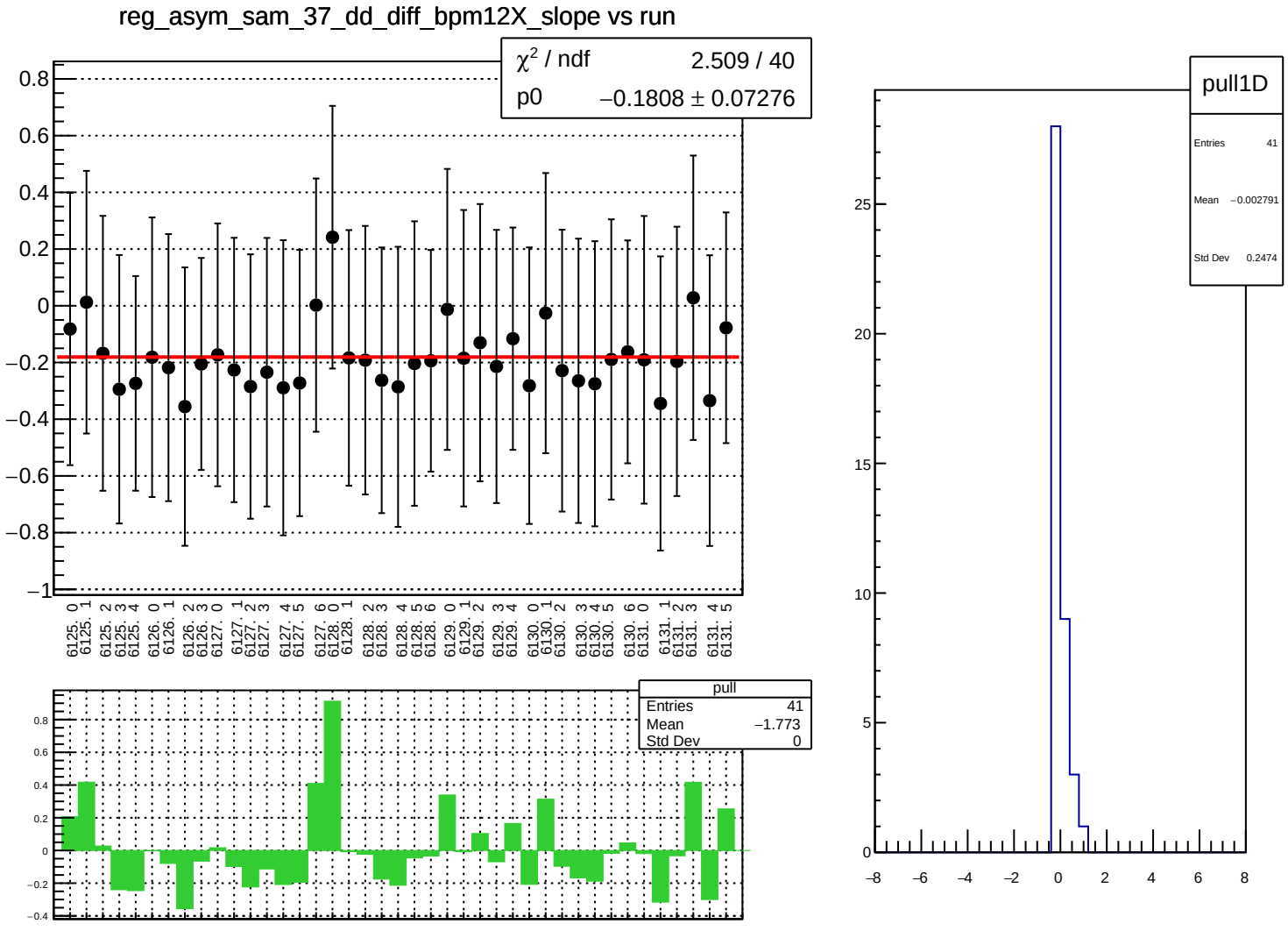

pull1D
Entries 41
Mean −0.008245
Std Dev 0.265

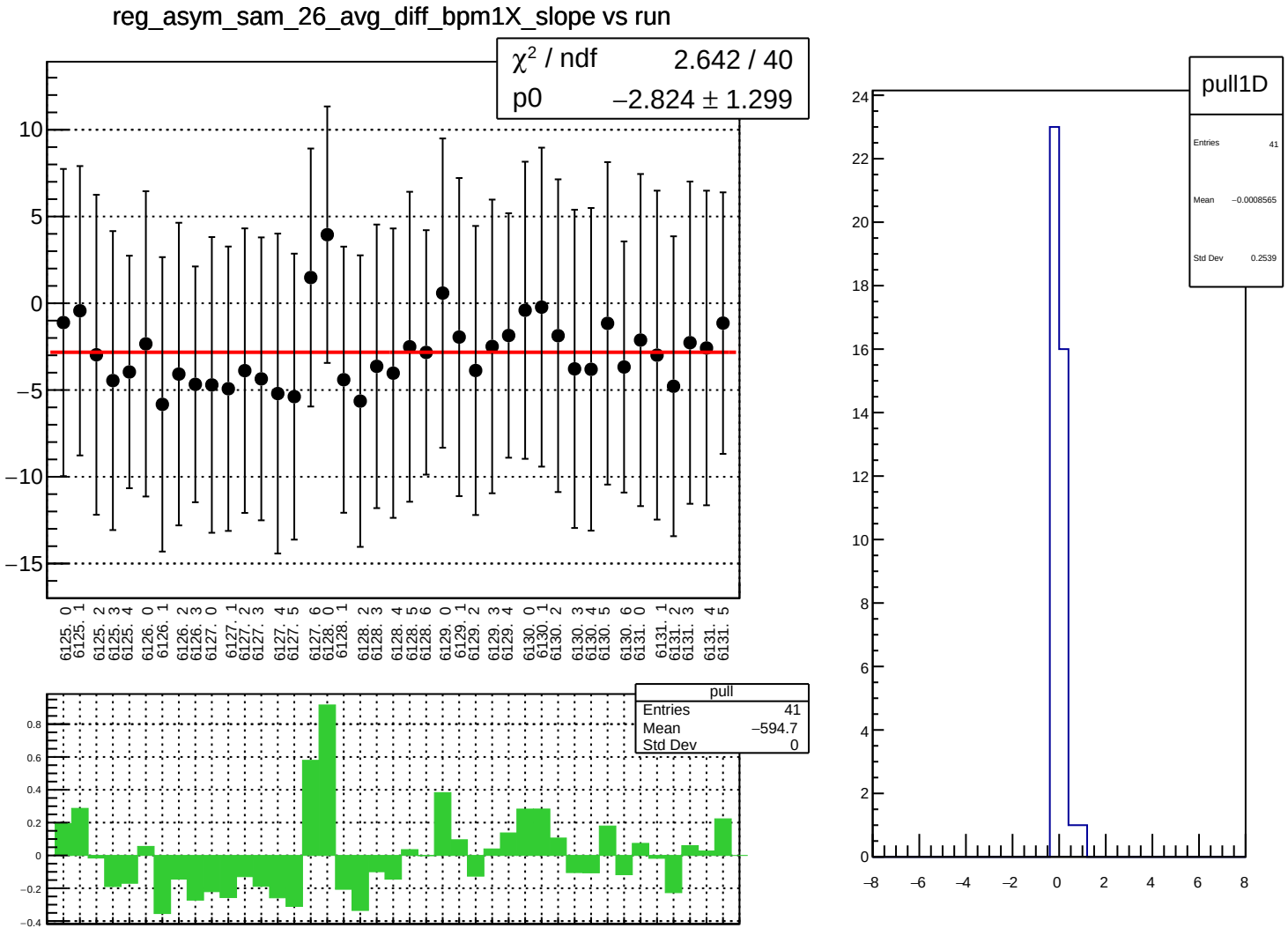

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.891 / 40
p0 −14.38 ± 0.9256
pull
Entries 41
Mean 89.46
Std Dev 0

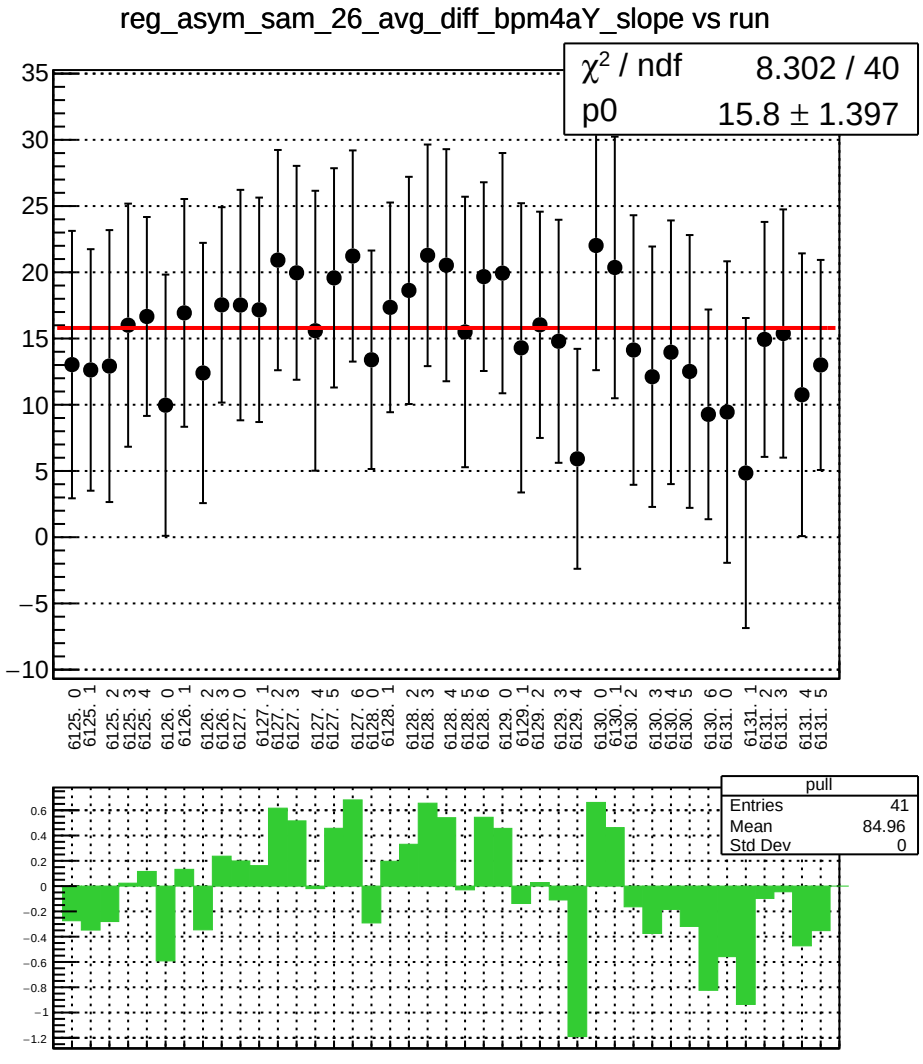

pull1D
Entries 41
Mean 0.003267
Std Dev 0.41

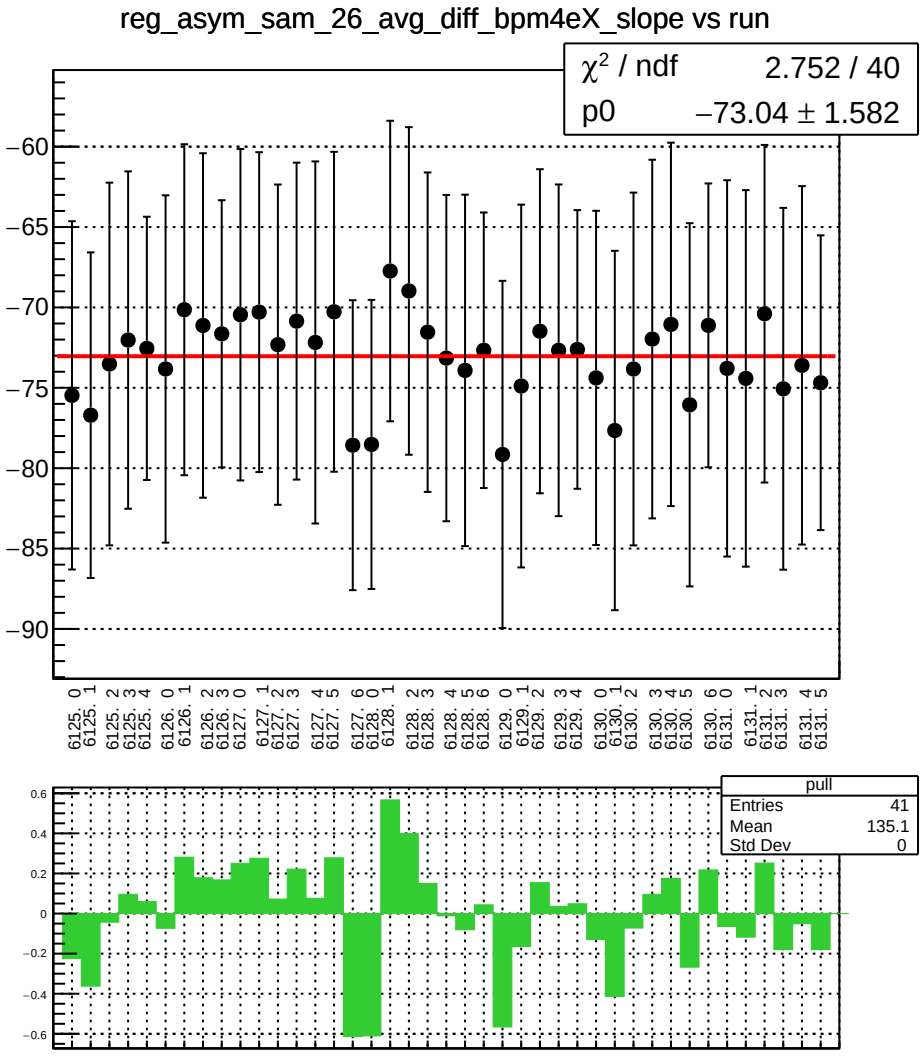

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.384 / 40
p0 19.93 ± 0.8661
pull
Entries 41
Mean 163.1
Std Dev 0

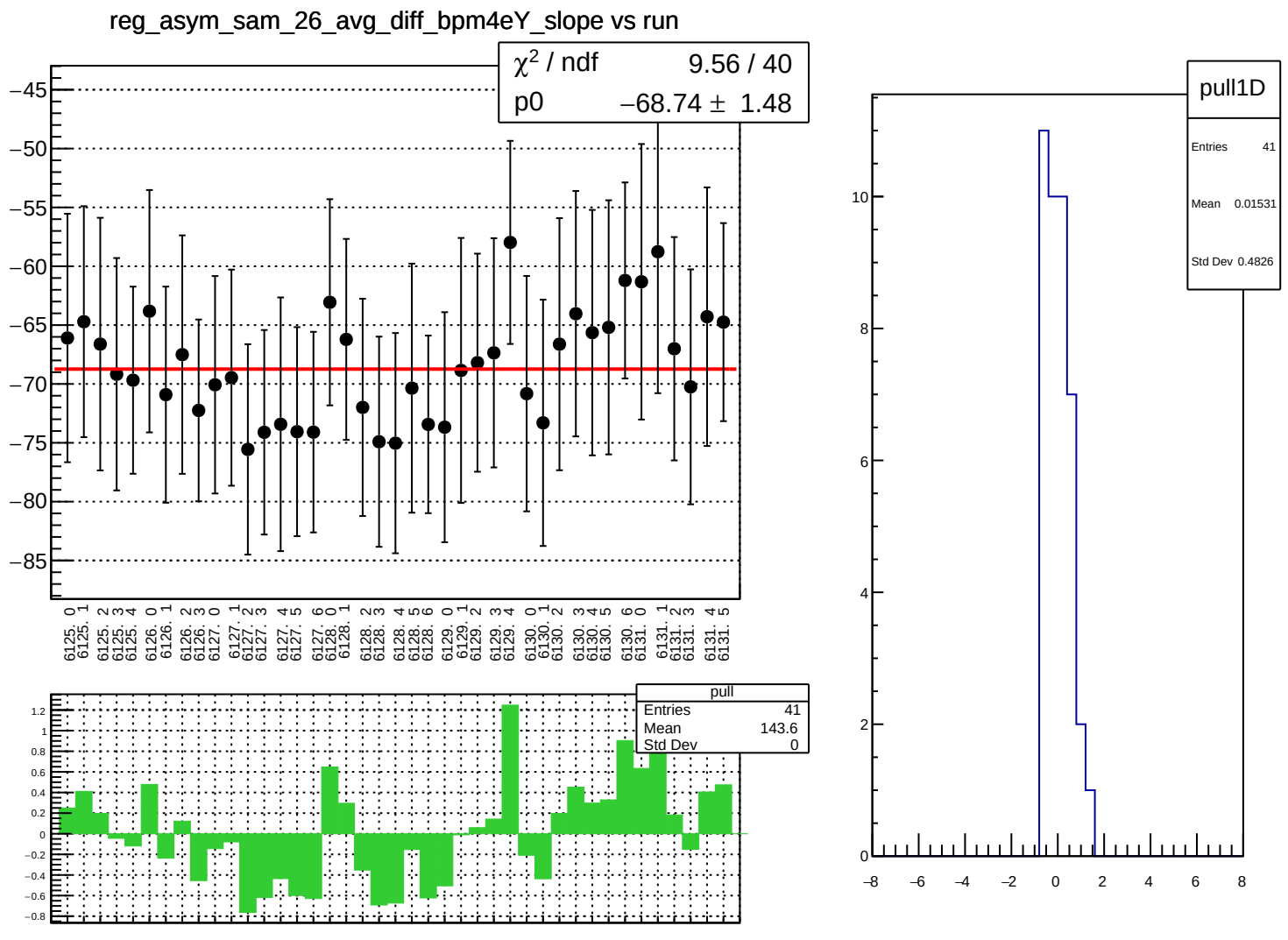

pull1D
Entries 41
Mean 0.006241
Std Dev 0.3269

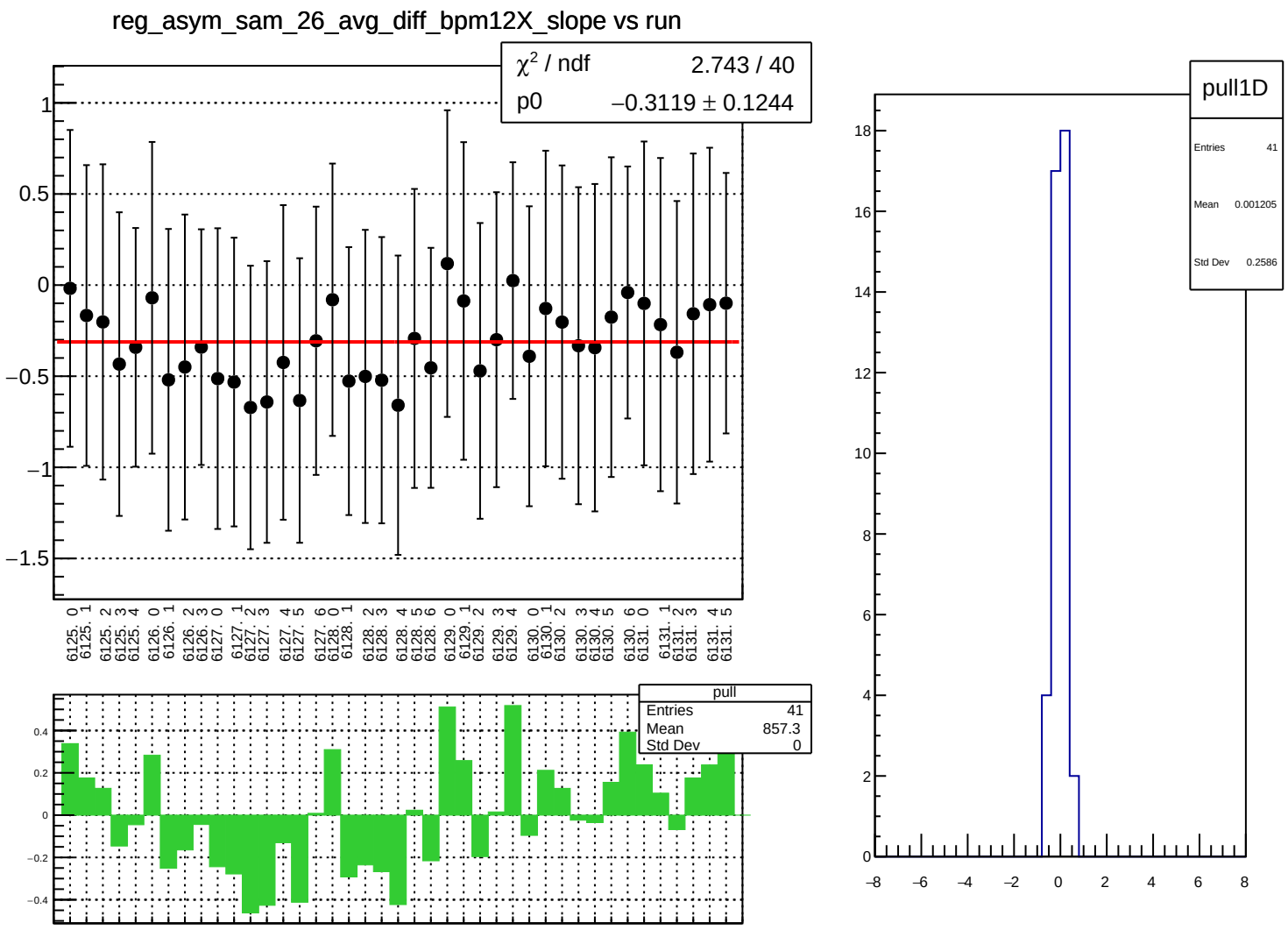

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2.509 / 40
p0 −0.1808 ± 0.07276
pull
Entries 41
Mean −1.773
Std Dev 0
pull1D
Entries 41
Mean −0.002791
Std Dev 0.2474

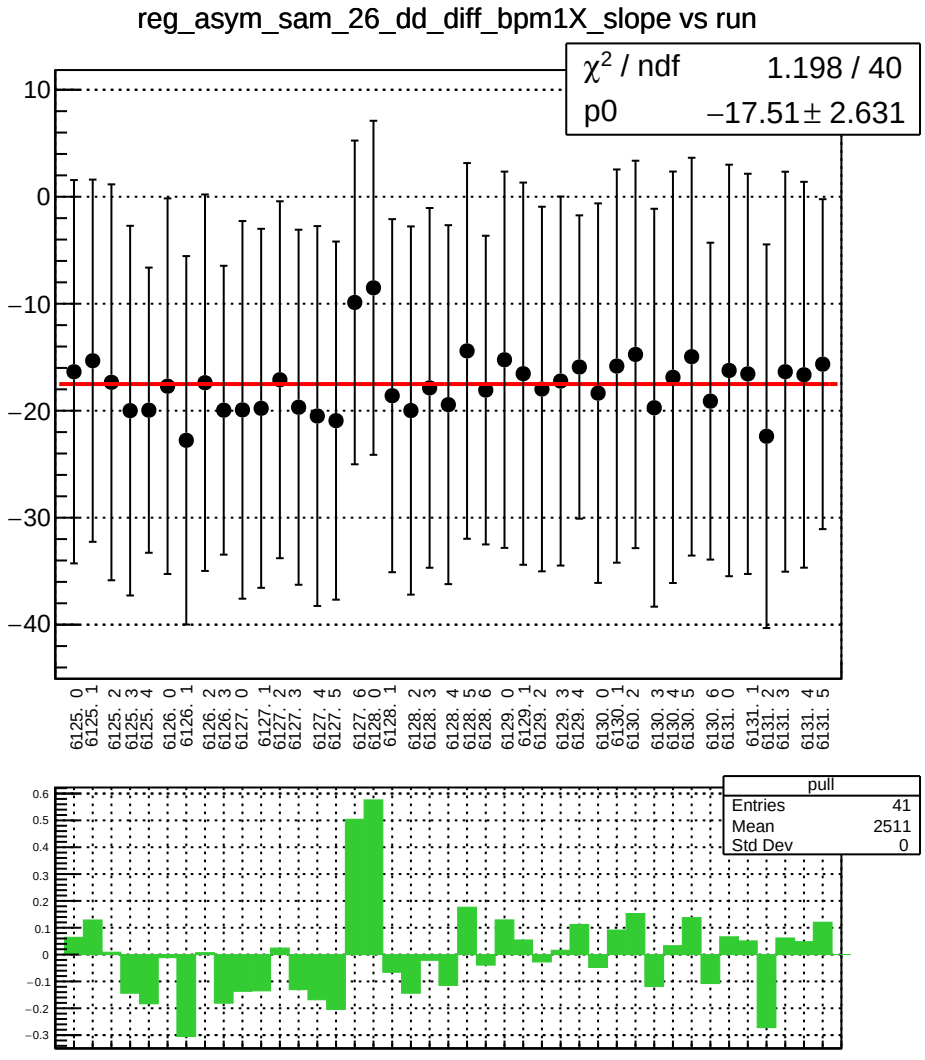

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 2.642 / 40
p0 −2.824 ± 1.299
pull
Entries 41
Mean −594.7
Std Dev 0
pull1D
Entries 41
Mean −0.0008565
Std Dev 0.2539

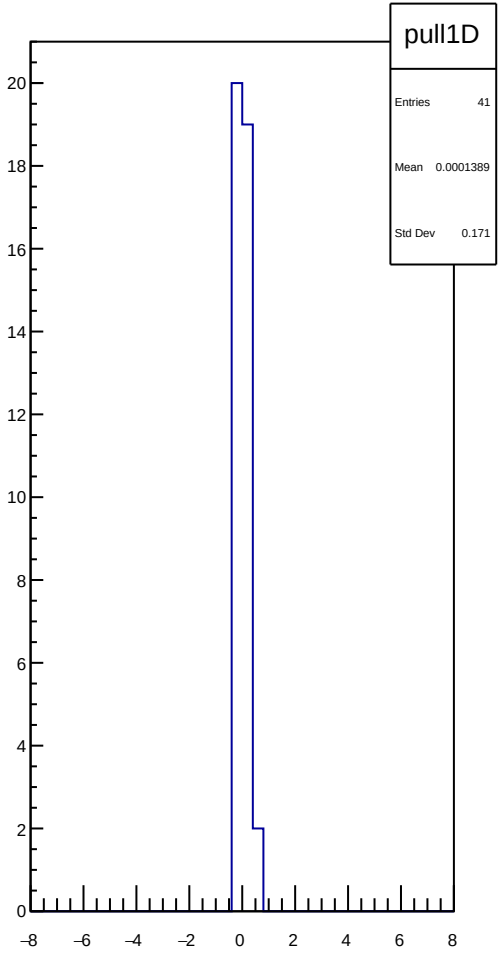

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.302 / 40
p0 15.8 ± 1.397
pull
Entries 41
Mean 84.96
Std Dev 0
pull1D
Entries 41
Mean −0.02257
Std Dev 0.4494

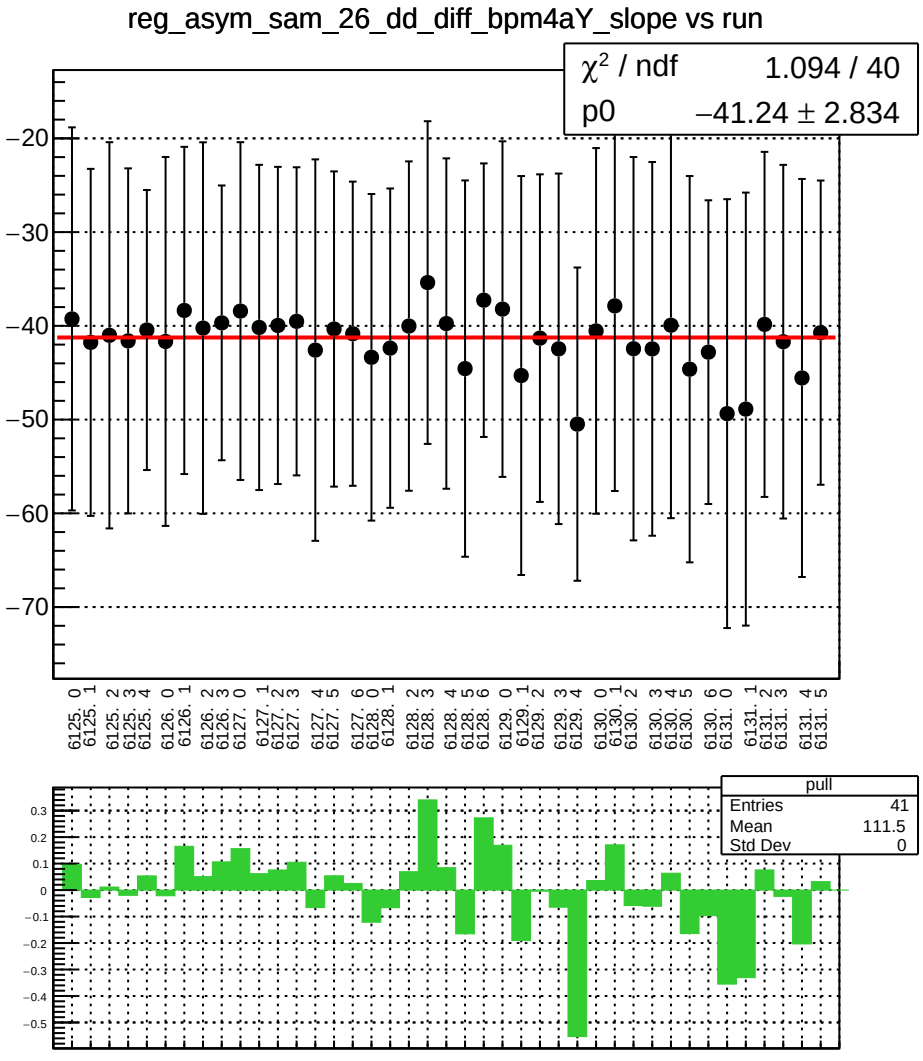

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.752 / 40
p0 −73.04 ± 1.582
pull
Entries 41
Mean 135.1
Std Dev 0
pull1D
Entries 41
Mean −0.0032
Std Dev 0.259

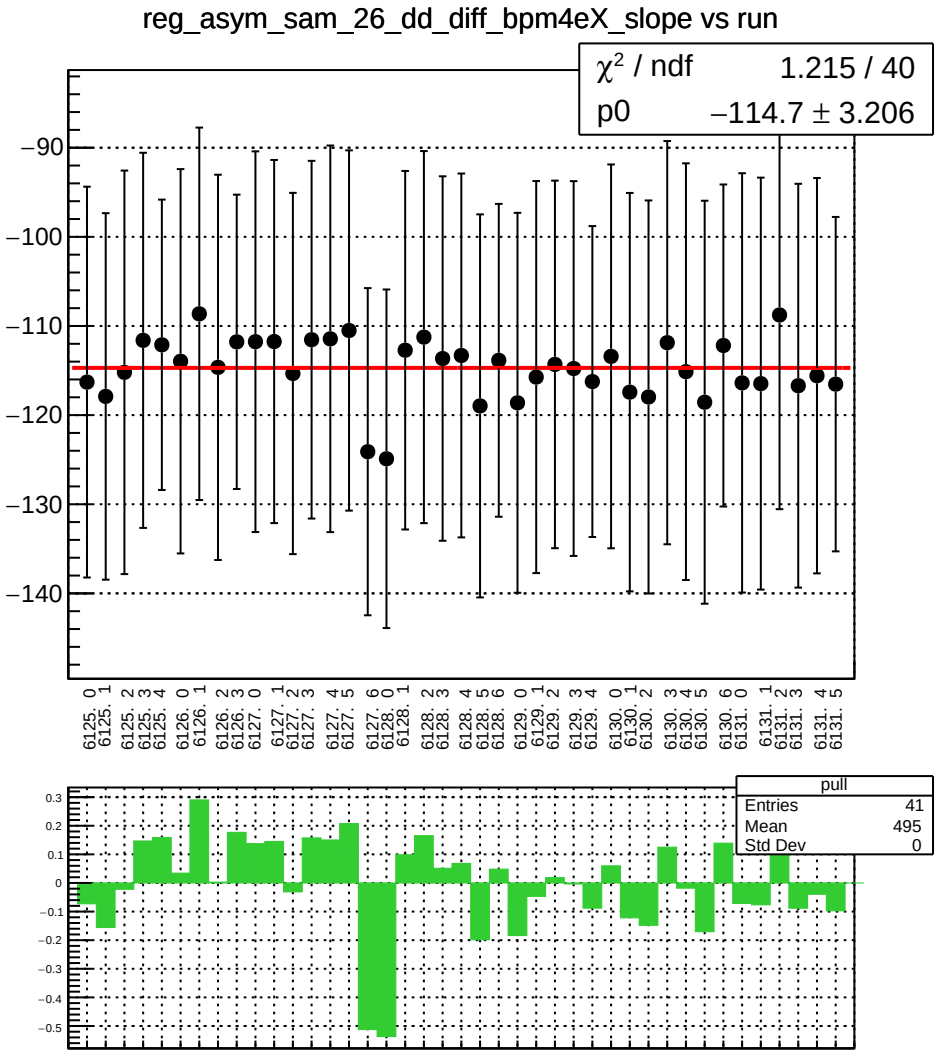

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.56 / 40
p0 −68.74 ± 1.48
pull
Entries 41
Mean 143.6
Std Dev 0
pull1D
Entries 41
Mean 0.01531
Std Dev 0.4826

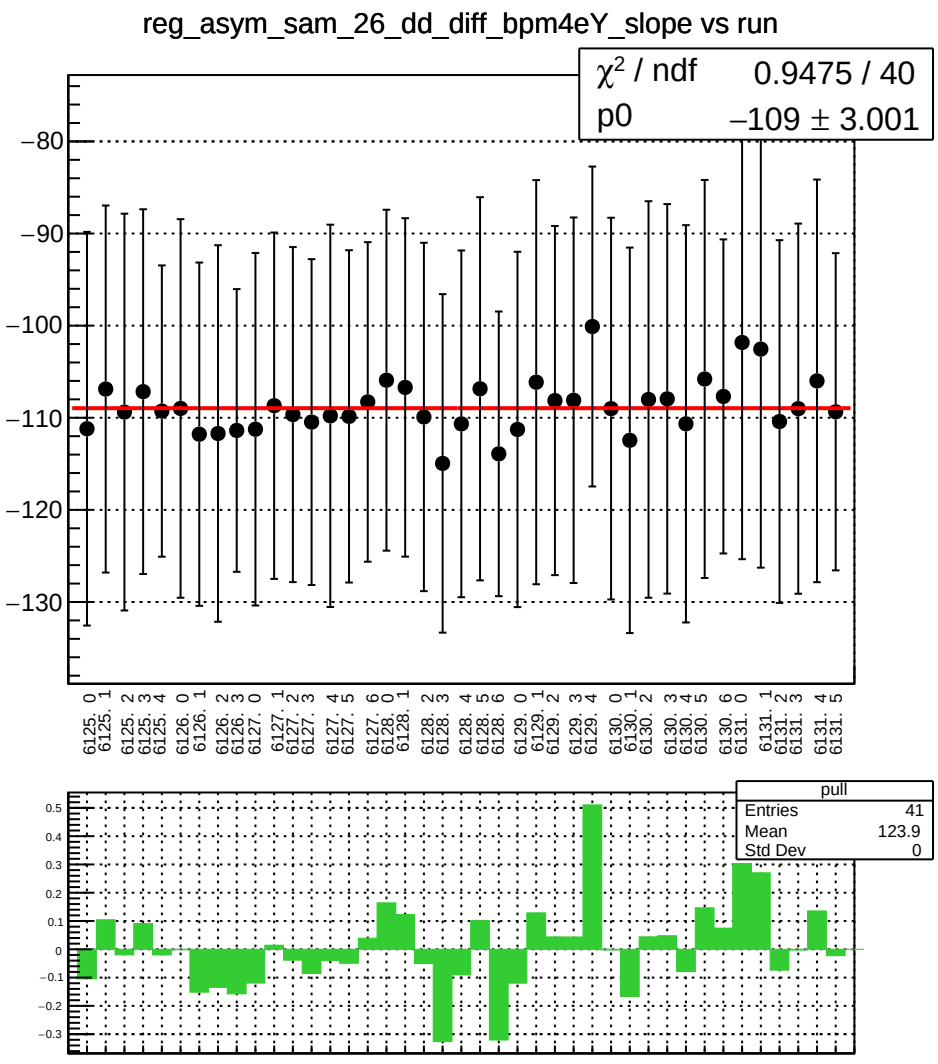

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 2.743 / 40
p0 −0.3119 ± 0.1244
pull
Entries 41
Mean 857.3
Std Dev 0
pull1D
Entries 41
Mean 0.001205
Std Dev 0.2586

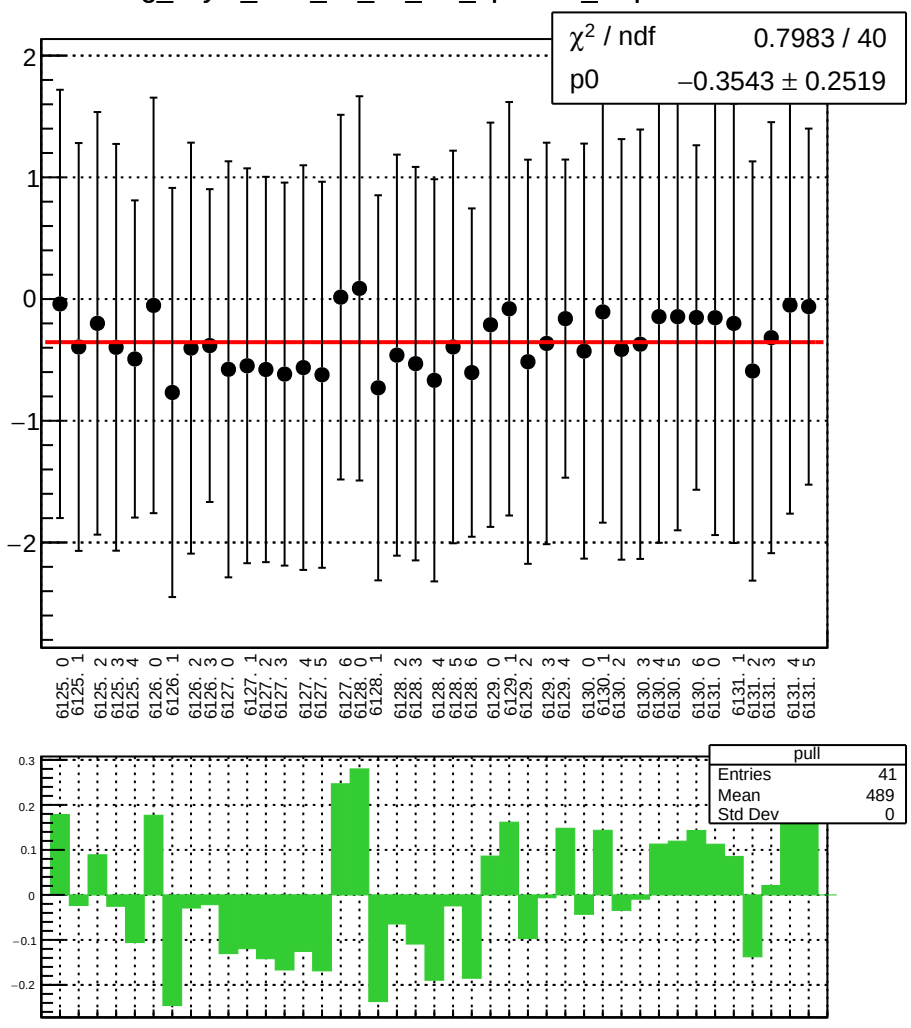

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1.198 / 40
p0 −17.51 ± 2.631
pull
Entries 41
Mean 2511
Std Dev 0

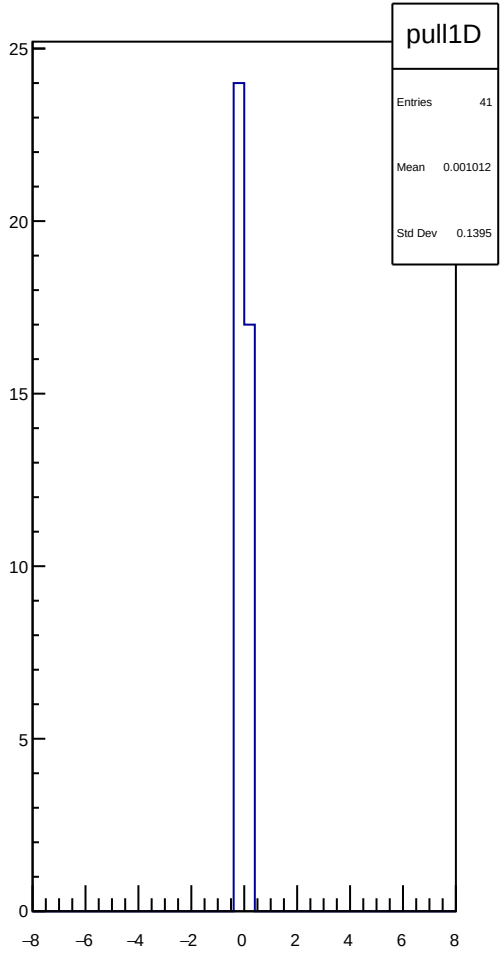

pull1D
Entries 41
Mean 0.0001389
Std Dev 0.171

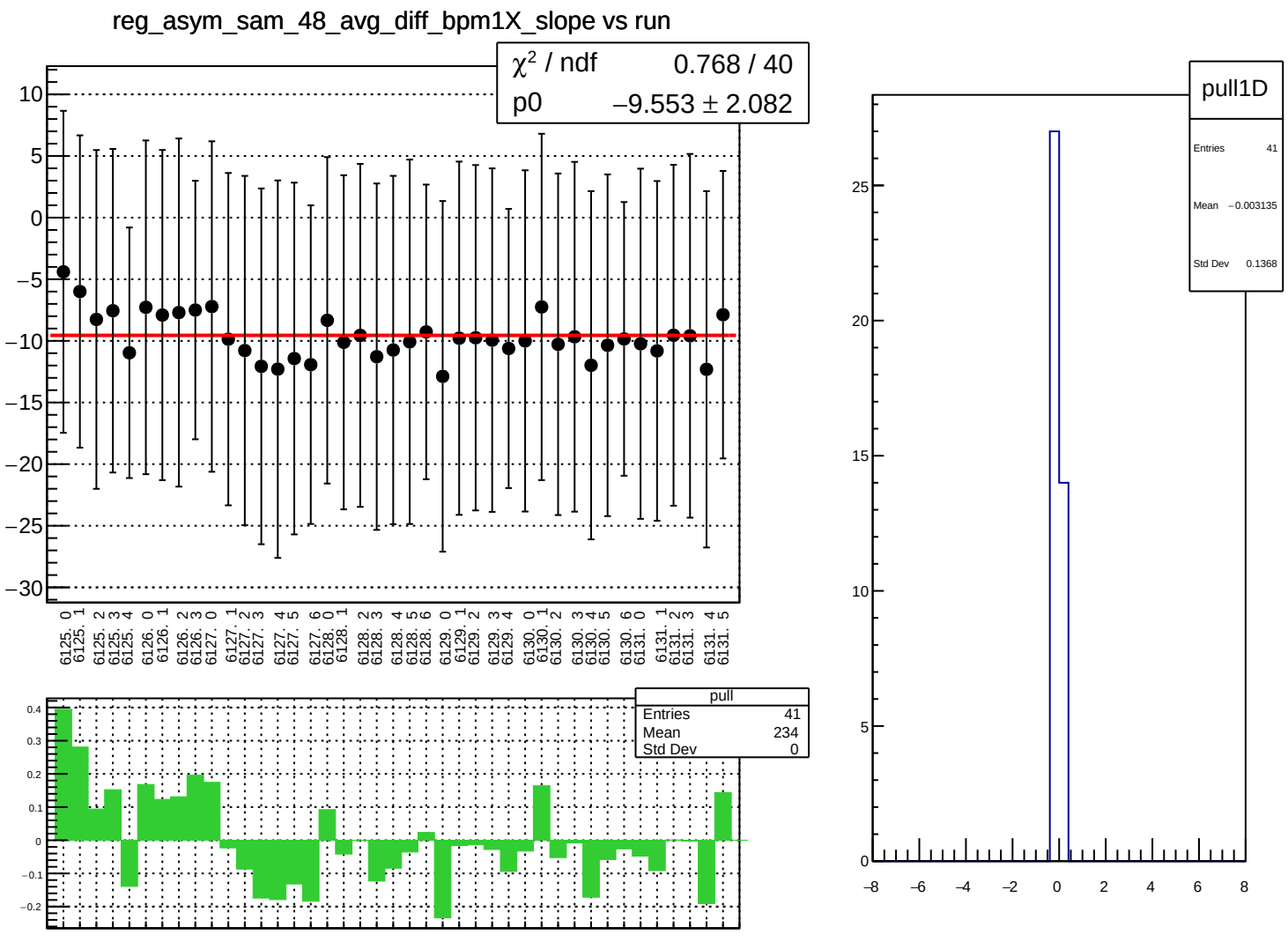

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.094 / 40
p0 −41.24 ± 2.834
−20
−30
−40
−50
−60
−70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 111.5
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 41
Mean −0.007766
Std Dev 0.1632
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

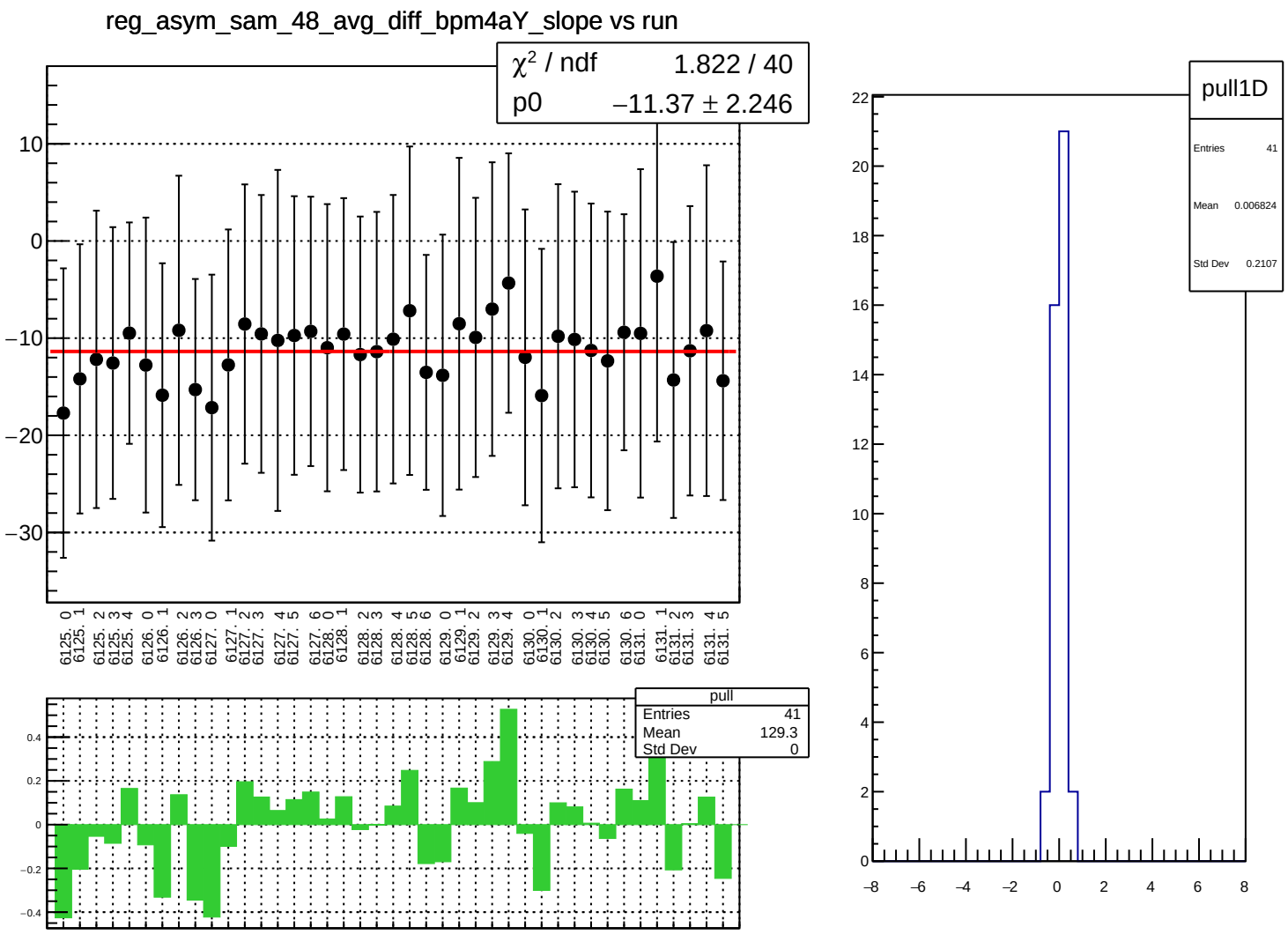

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.215 / 40
p0 −114.7 ± 3.206
−90
−100
−110
−120
−130
−140
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 495
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 41
Mean −0.0007053
Std Dev 0.1721
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

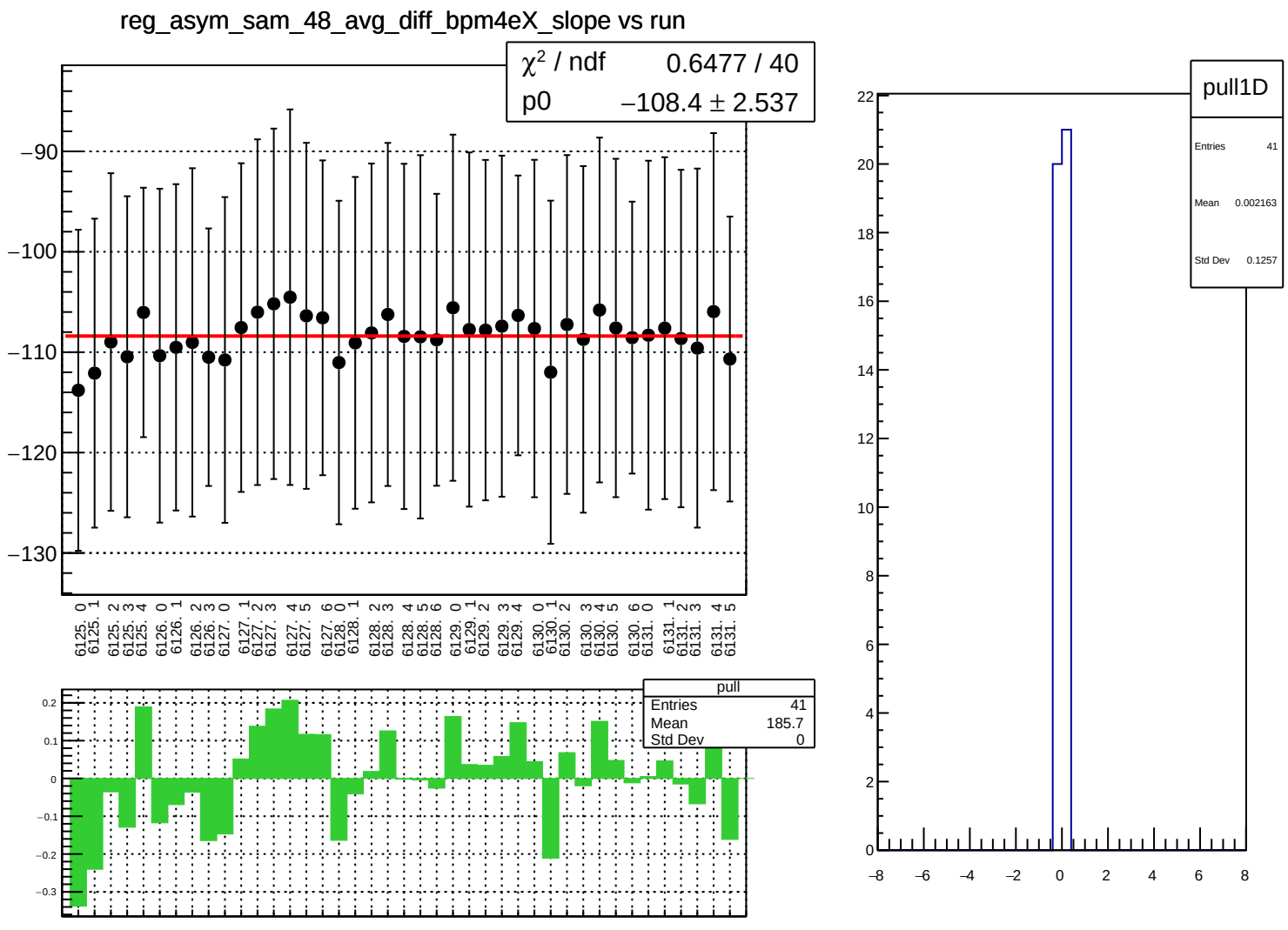

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.9475 / 40
p0 −109 ± 3.001
−80
−90
−100
−110
−120
−130
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 123.9
Std Dev 0
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 41
Mean 0.005147
Std Dev 0.1519
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

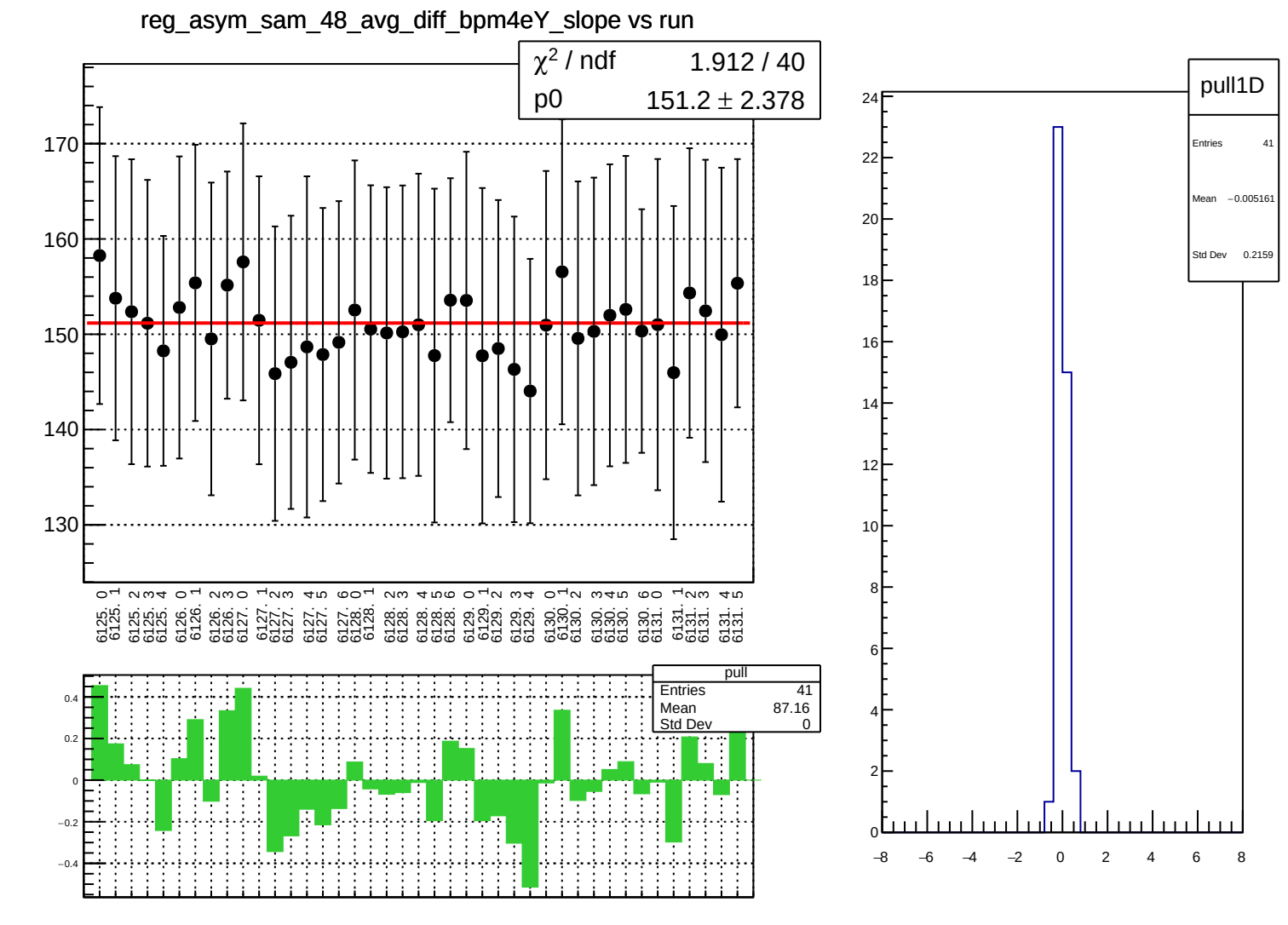

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.7983 / 40
p0 −0.3543 ± 0.2519
pull
Entries 41
Mean 489
Std Dev 0

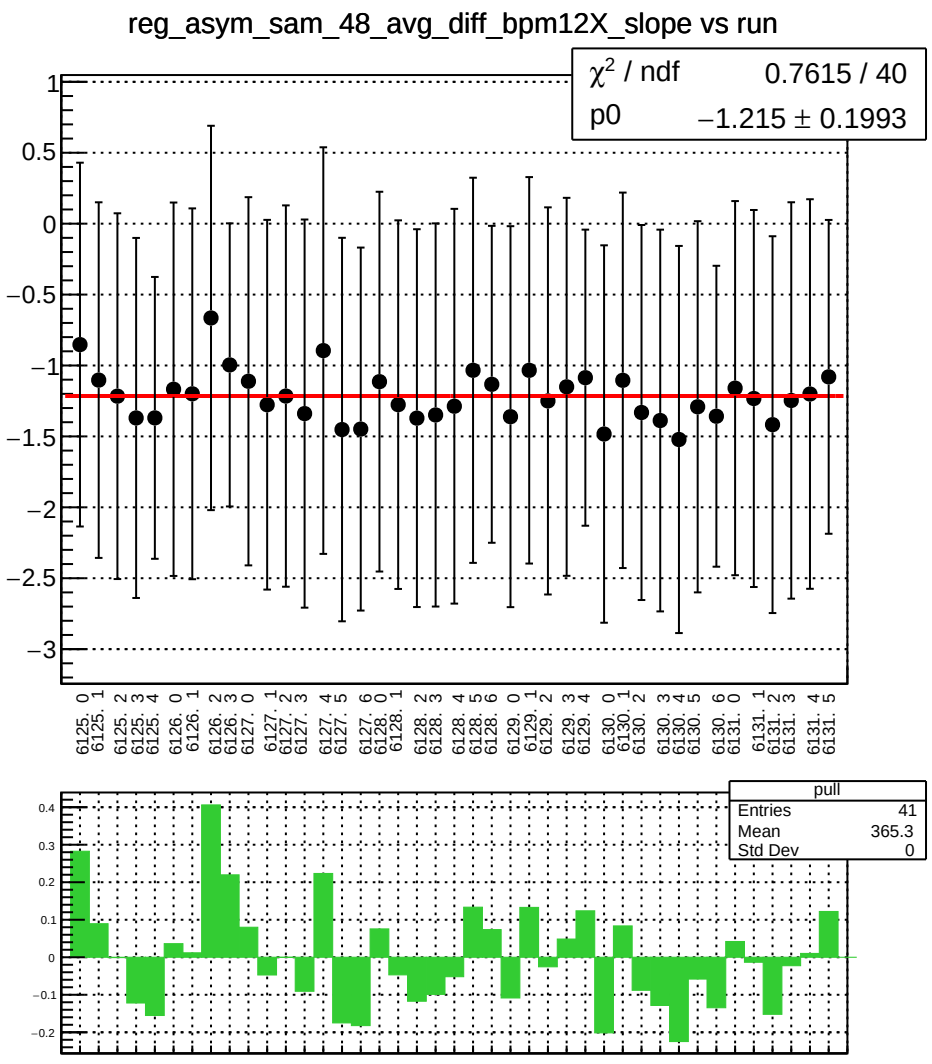

pull1D
Entries 41
Mean 0.001012
Std Dev 0.1395

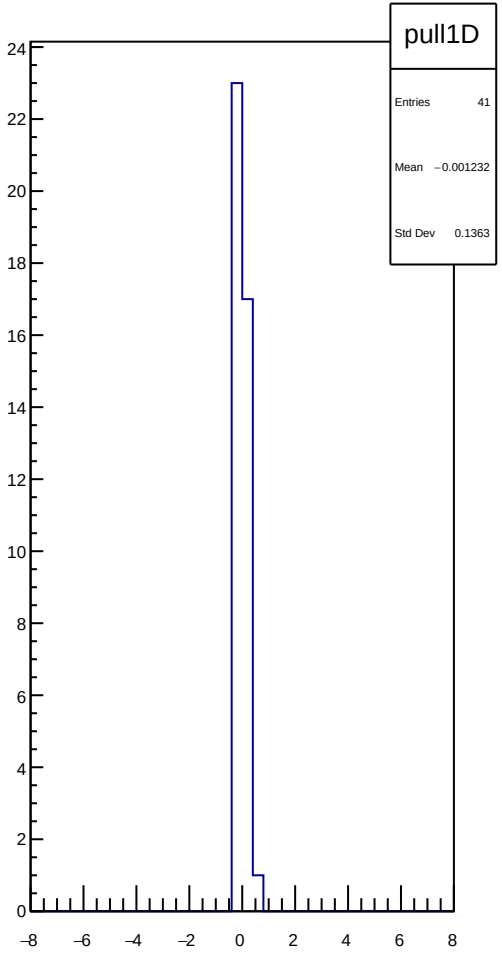

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 0.768 / 40
p0 −9.553 ± 2.082
pull
Entries 41
Mean 234
Std Dev 0
pull1D
Entries 41
Mean −0.003135
Std Dev 0.1368

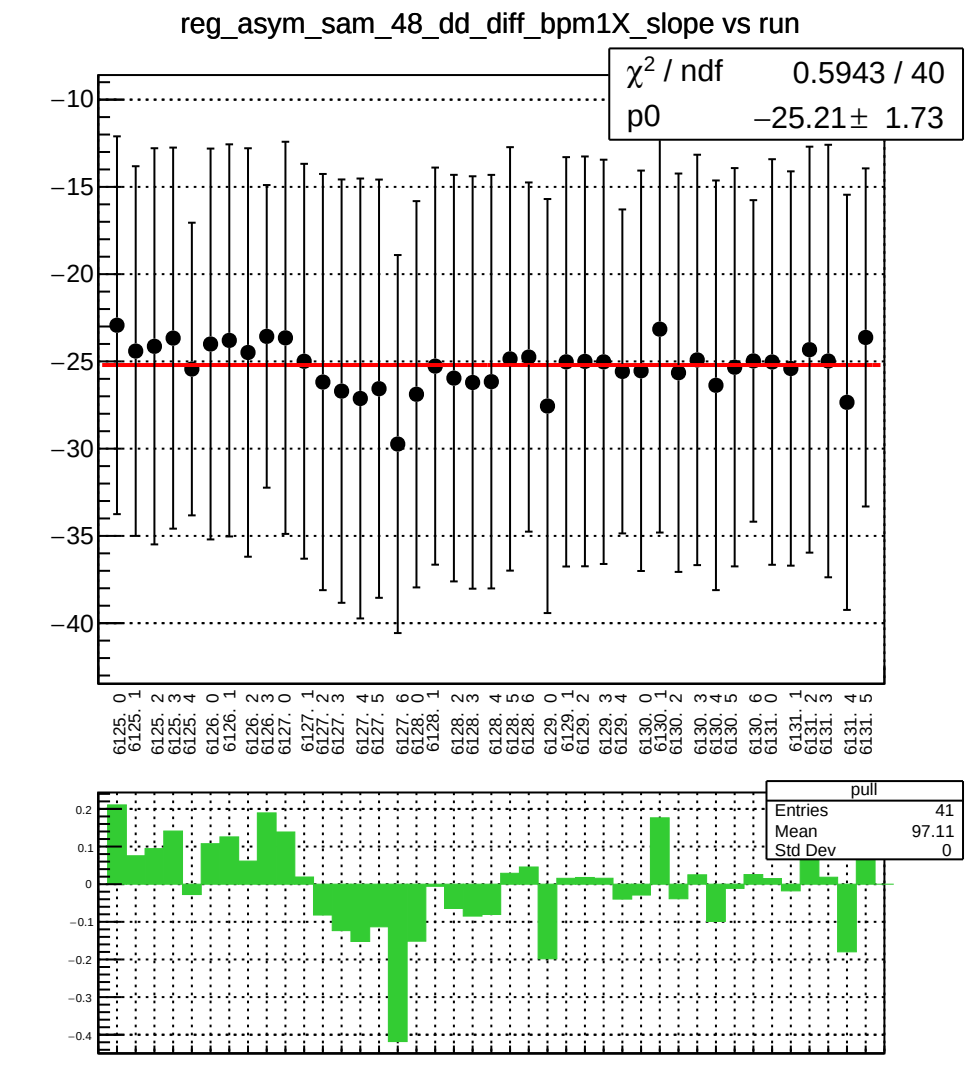

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.822 / 40
p0 −11.37 ± 2.246
10
0
−10
−20
−30
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 129.3
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 41
Mean 0.006824
Std Dev 0.2107
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

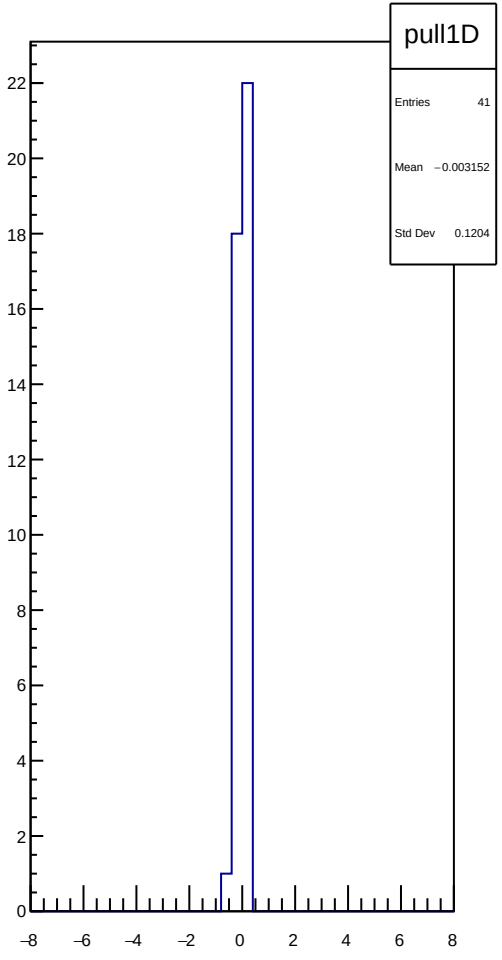

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.6477 / 40
p0 −108.4 ± 2.537
−90
−100
−110
−120
−130
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 185.7
Std Dev 0
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 41
Mean 0.002163
Std Dev 0.1257
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

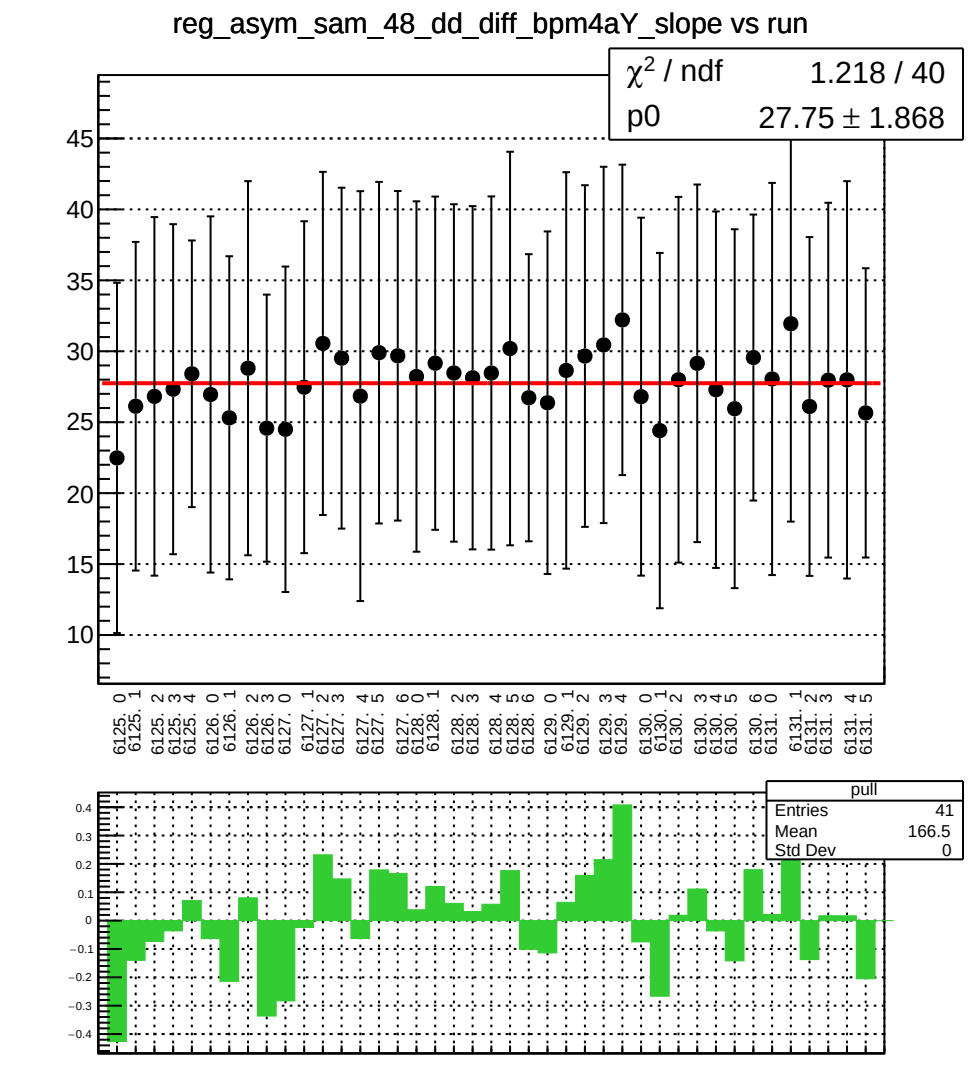

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.912 / 40
p0 151.2 ± 2.378
pull
Entries 41
Mean 87.16
Std Dev 0
pull1D
Entries 41
Mean −0.005161
Std Dev 0.2159

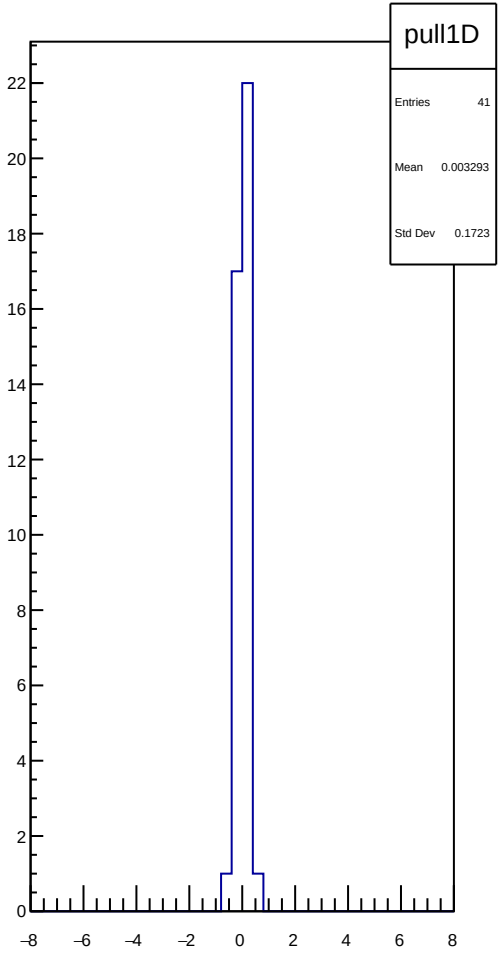

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 0.7615 / 40
p0 −1.215 ± 0.1993
pull
Entries 41
Mean 365.3
Std Dev 0

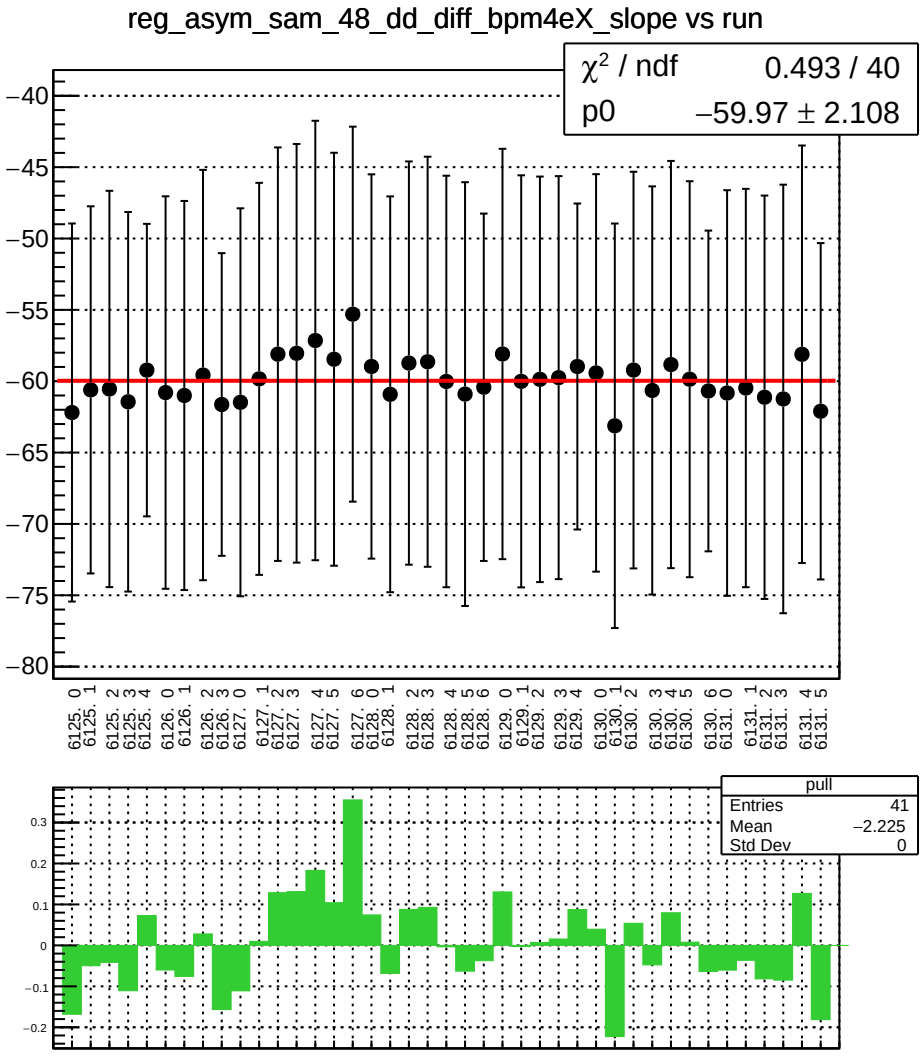

pull1D
Entries 41
Mean −0.001232
Std Dev 0.1363

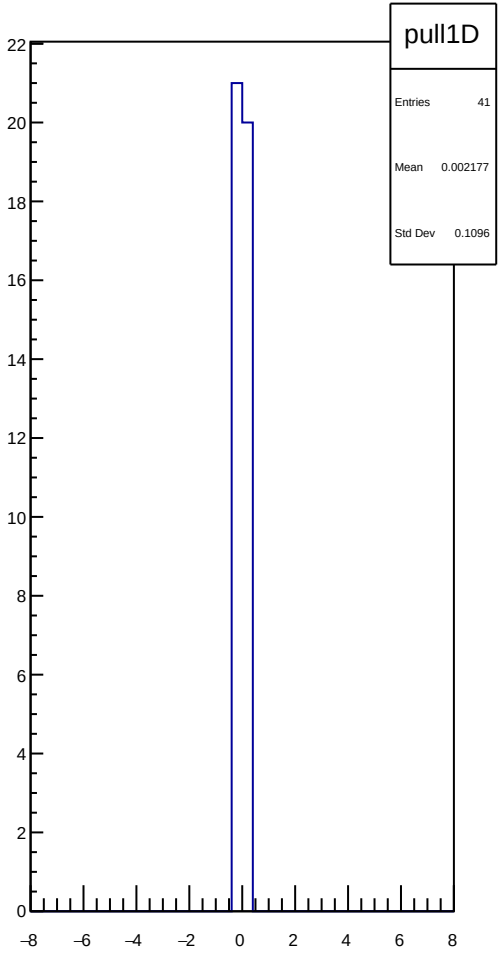

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 0.5943 / 40
p0 −25.21± 1.73
−10
−15
−20
−25
−30
−35
−40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 97.11
Std Dev 0
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

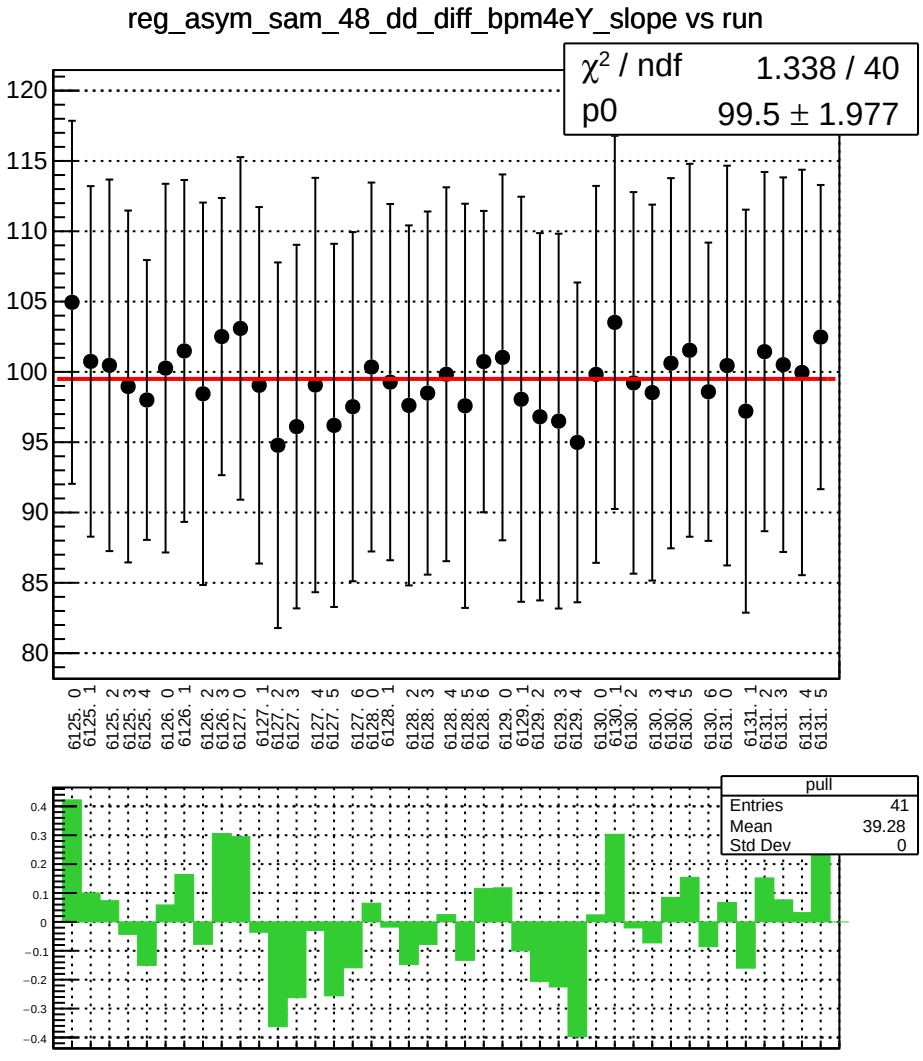

pull1D
Entries 41
Mean −0.003152
Std Dev 0.1204
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

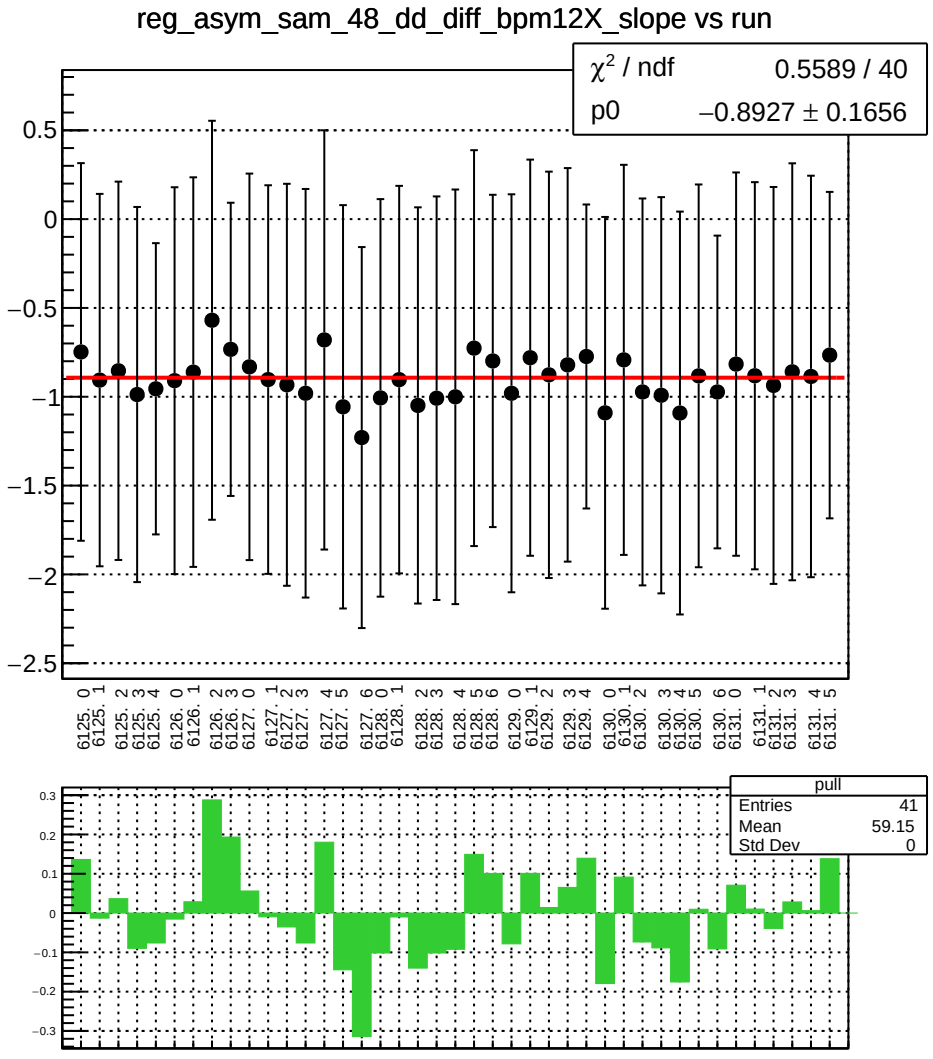

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.218 / 40
p0 27.75 ± 1.868
pull
Entries 41
Mean 166.5
Std Dev 0

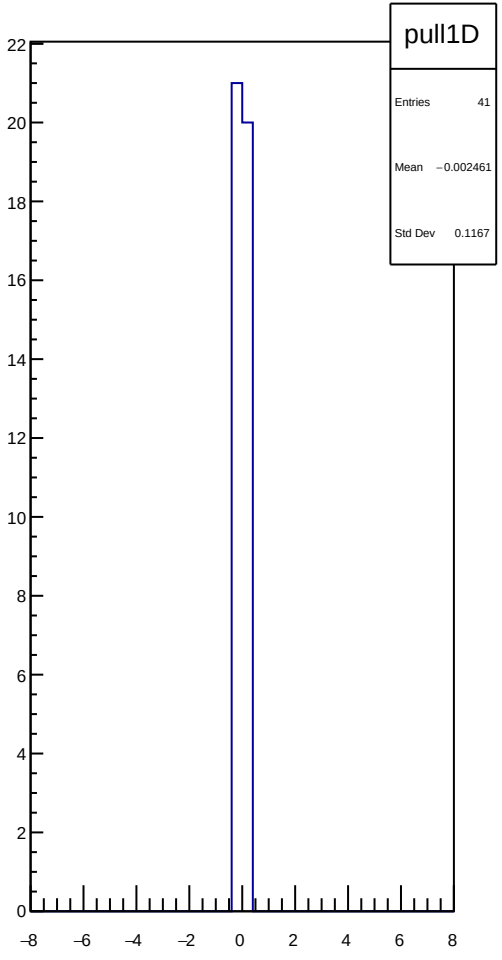

pull1D
Entries 41
Mean 0.003293
Std Dev 0.1723

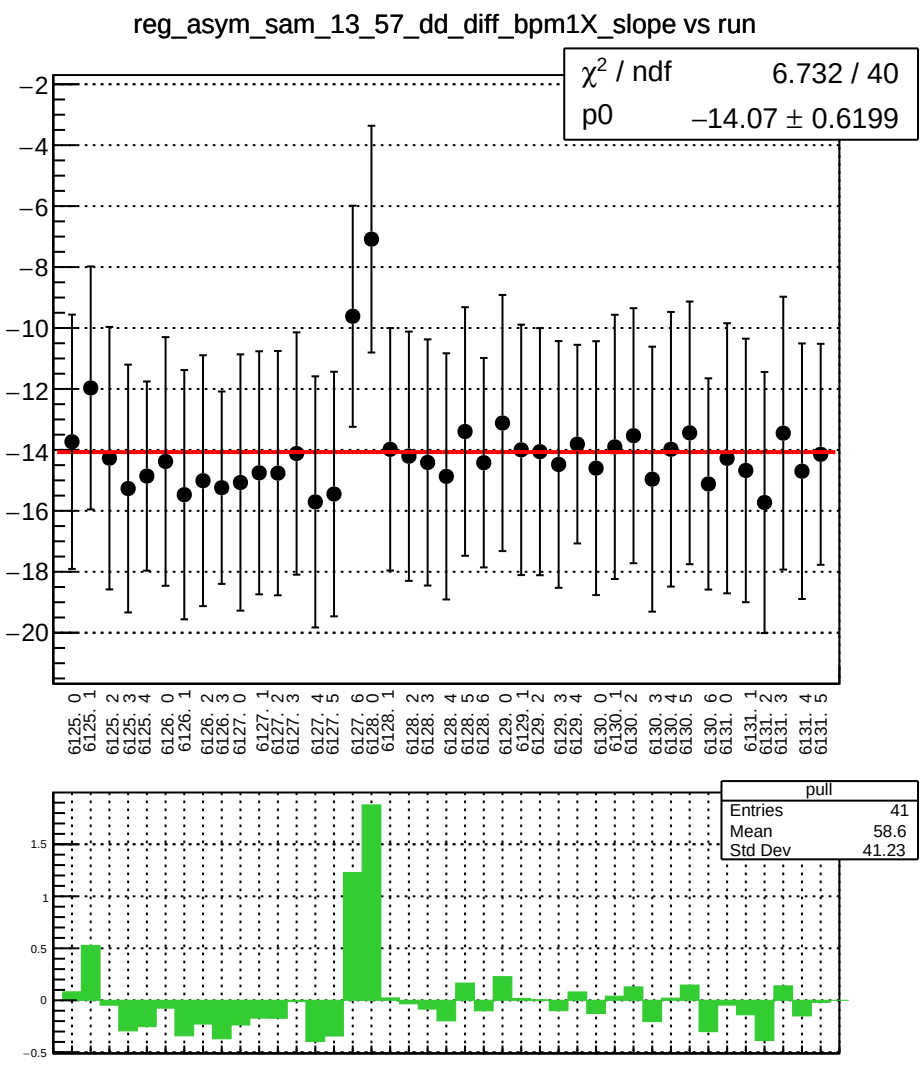

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.493 / 40
p0 −59.97 ± 2.108
pull
Entries 41
Mean −2.225
Std Dev 0

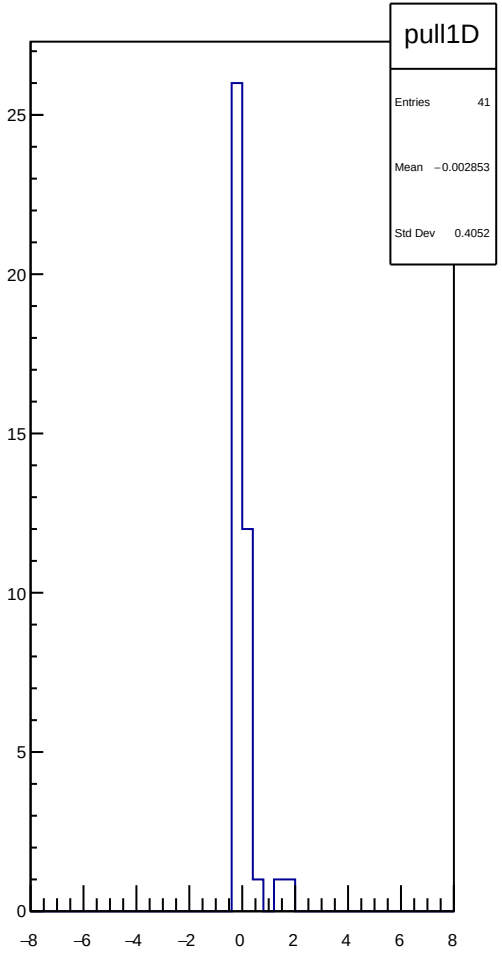

pull1D
Entries 41
Mean 0.002177
Std Dev 0.1096

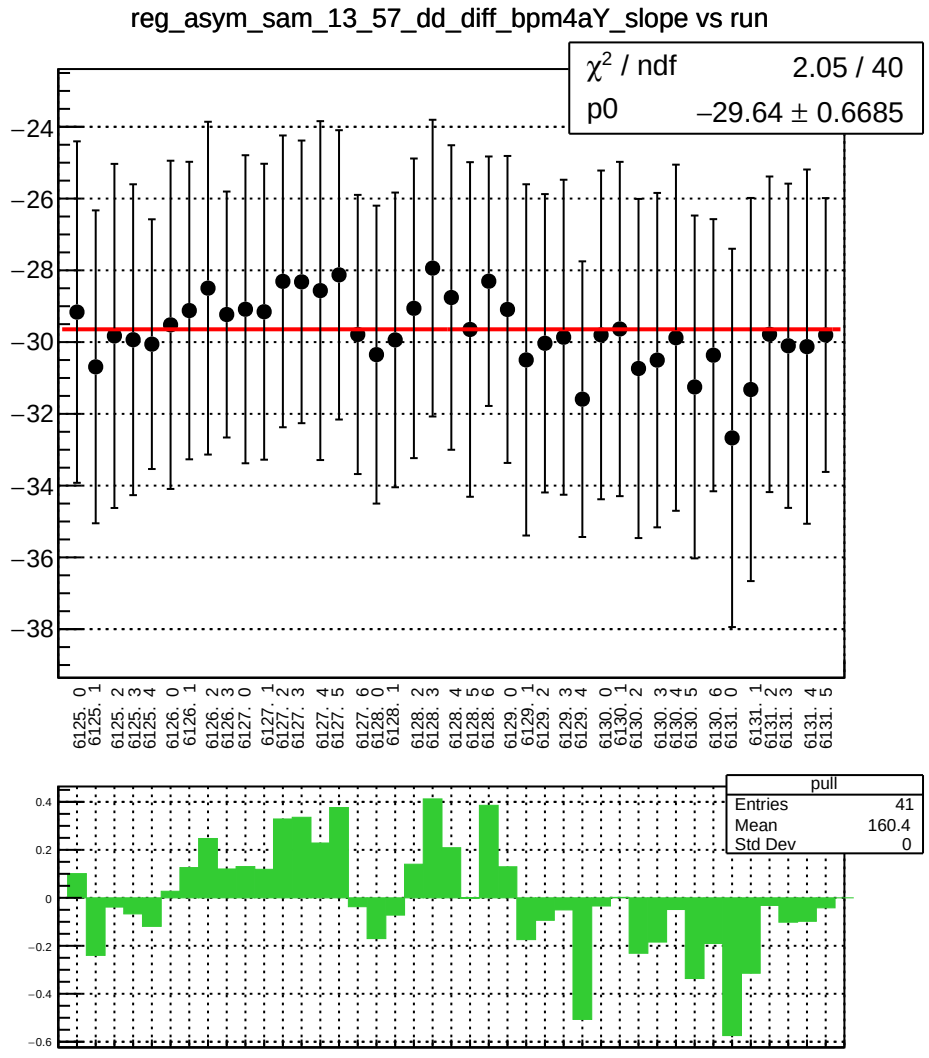

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.338 / 40
p0 99.5 ± 1.977
pull
Entries 41
Mean 39.28
Std Dev 0
pull1D
Entries 41
Mean −0.002657
Std Dev 0.1806

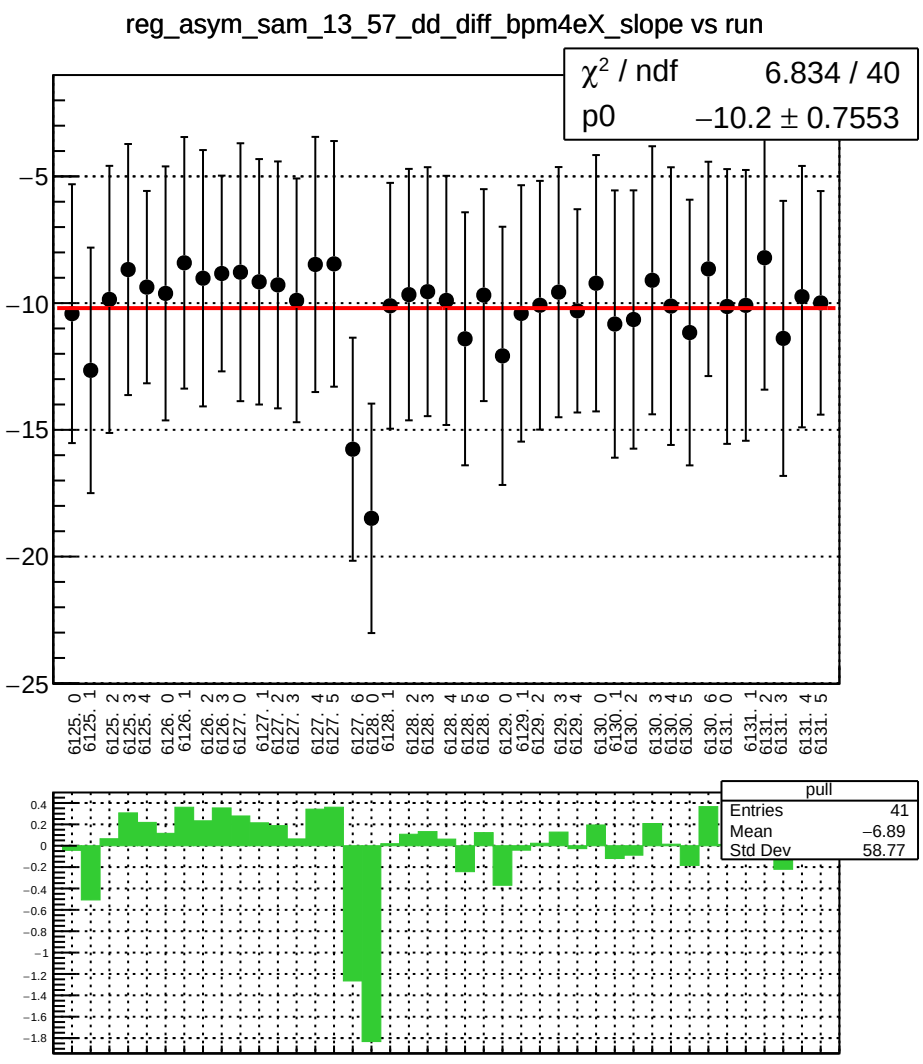

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.5589 / 40
p0 −0.8927 ± 0.1656
pull
Entries 41
Mean 59.15
Std Dev 0

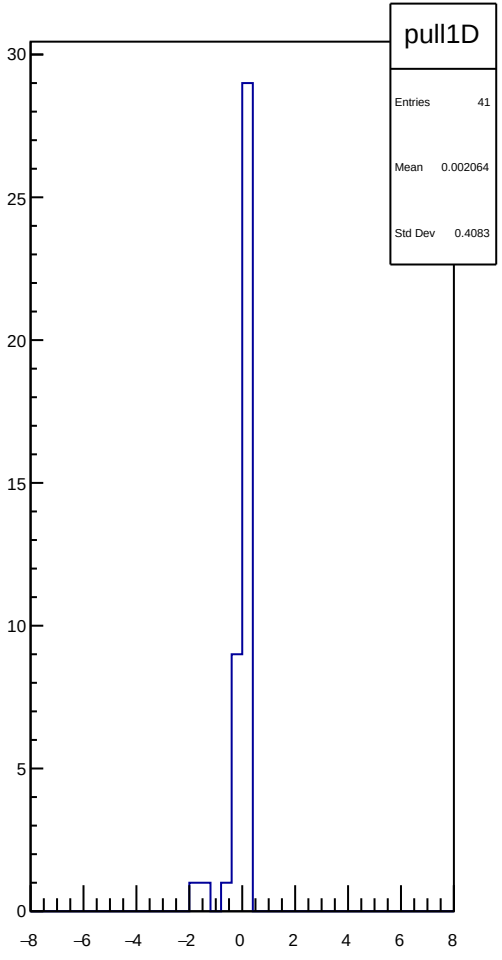

pull1D
Entries 41
Mean −0.002461
Std Dev 0.1167

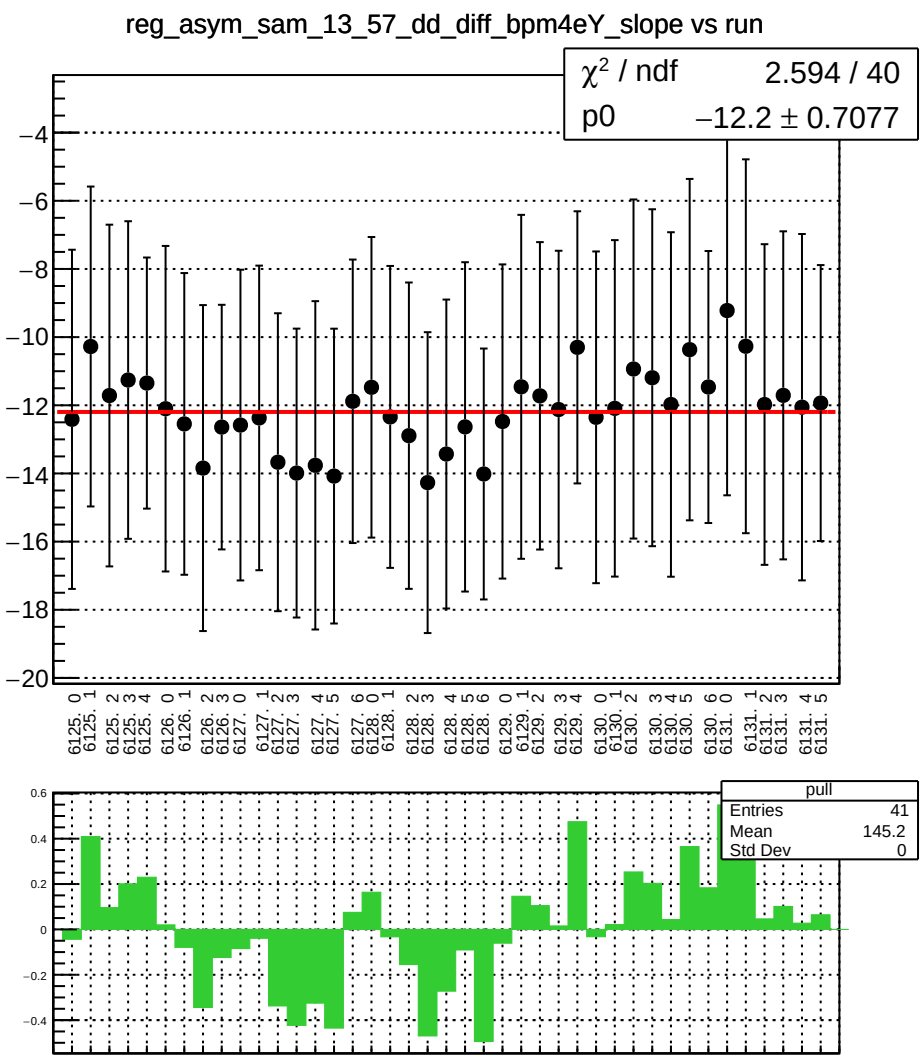

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 6.732 / 40
p0 −14.07 ± 0.6199
pull
Entries 41
Mean 58.6
Std Dev 41.23

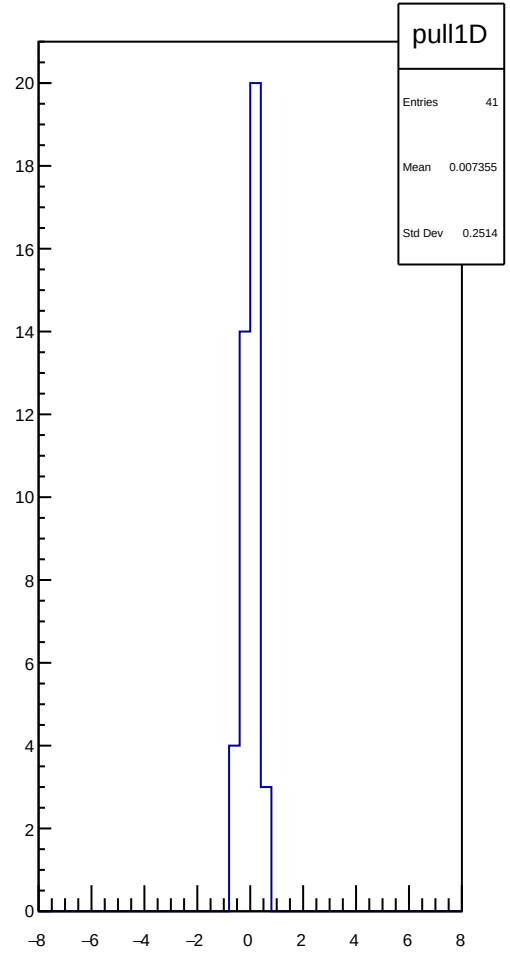

pull1D
Entries 41
Mean −0.002853
Std Dev 0.4052

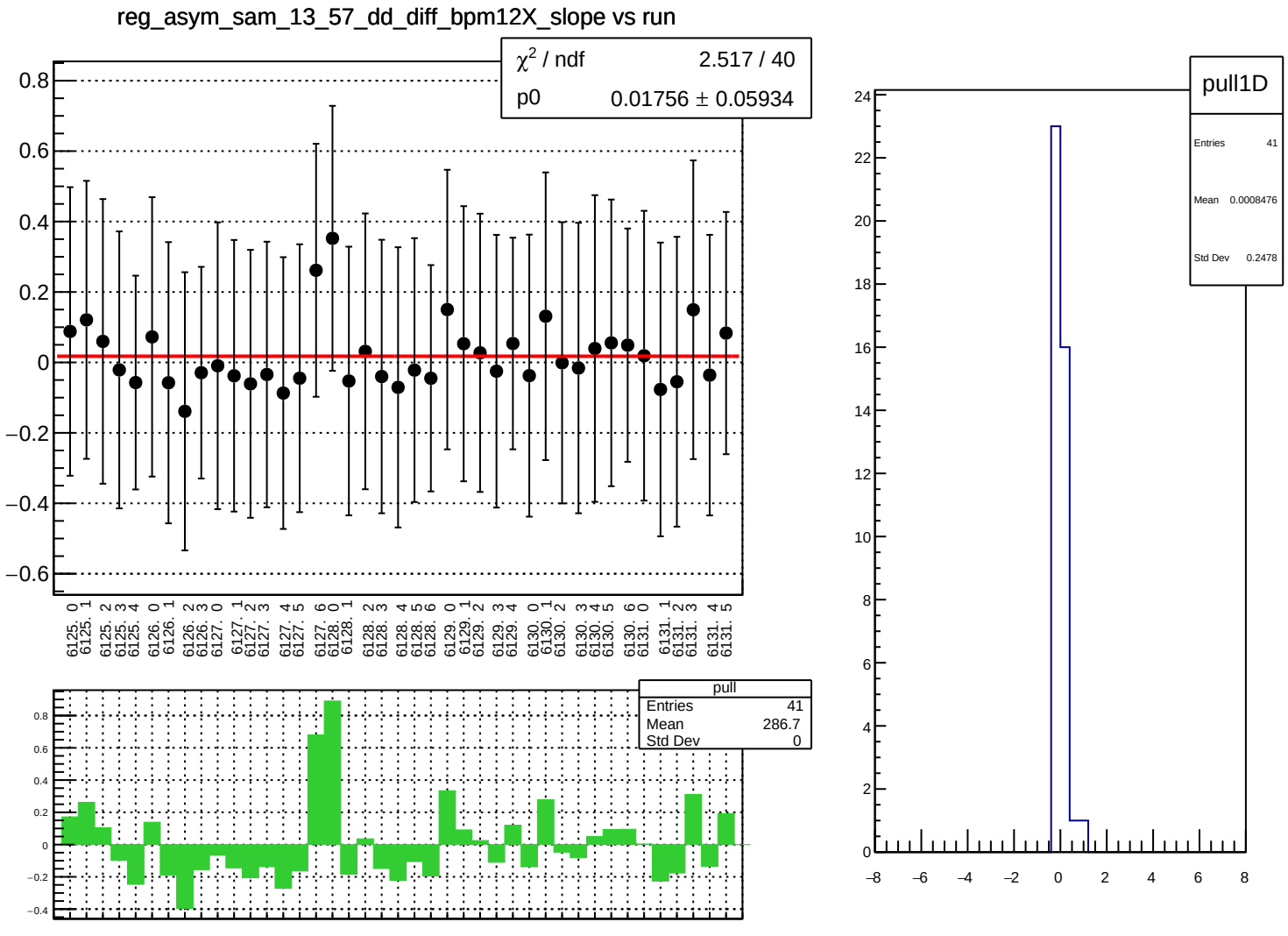

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.05 / 40
p0 −29.64 ± 0.6685
pull
Entries 41
Mean 160.4
Std Dev 0
pull1D
Entries 41
Mean −0.008203
Std Dev 0.2234

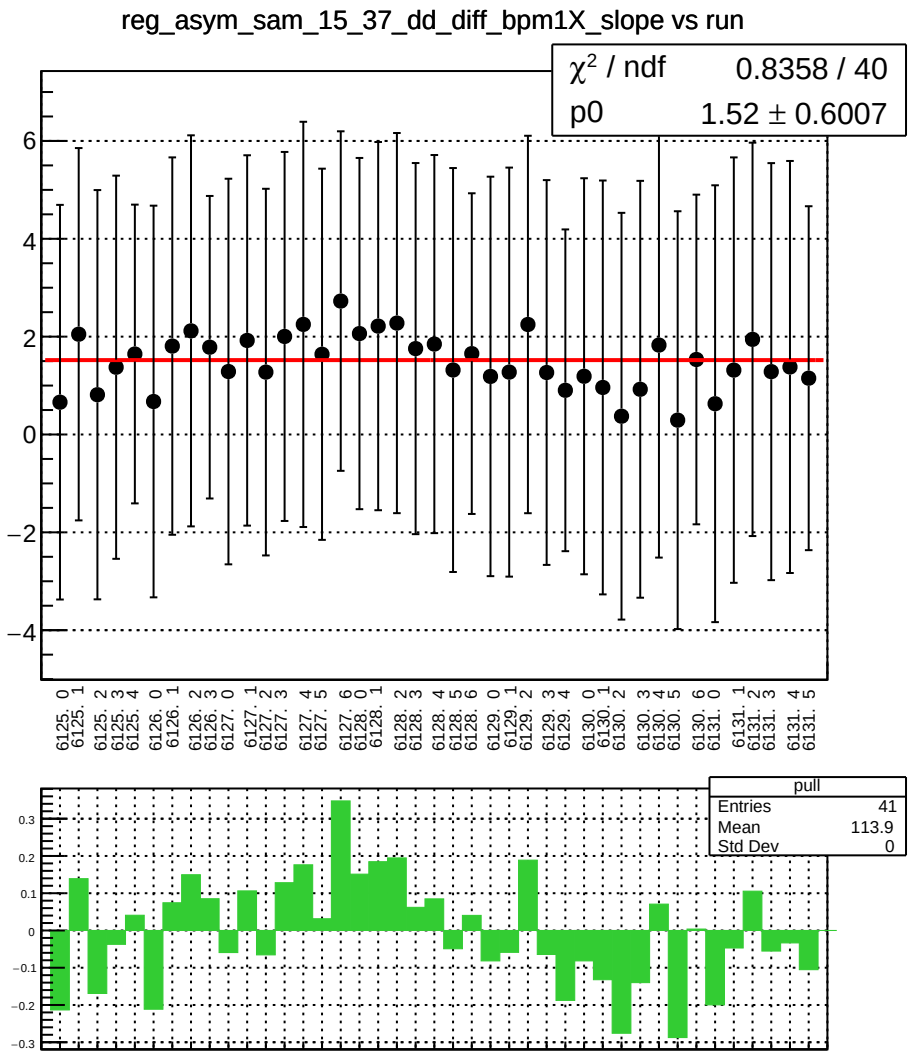

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.834 / 40
p0 −10.2 ± 0.7553
pull
Entries 41
Mean −6.89
Std Dev 58.77

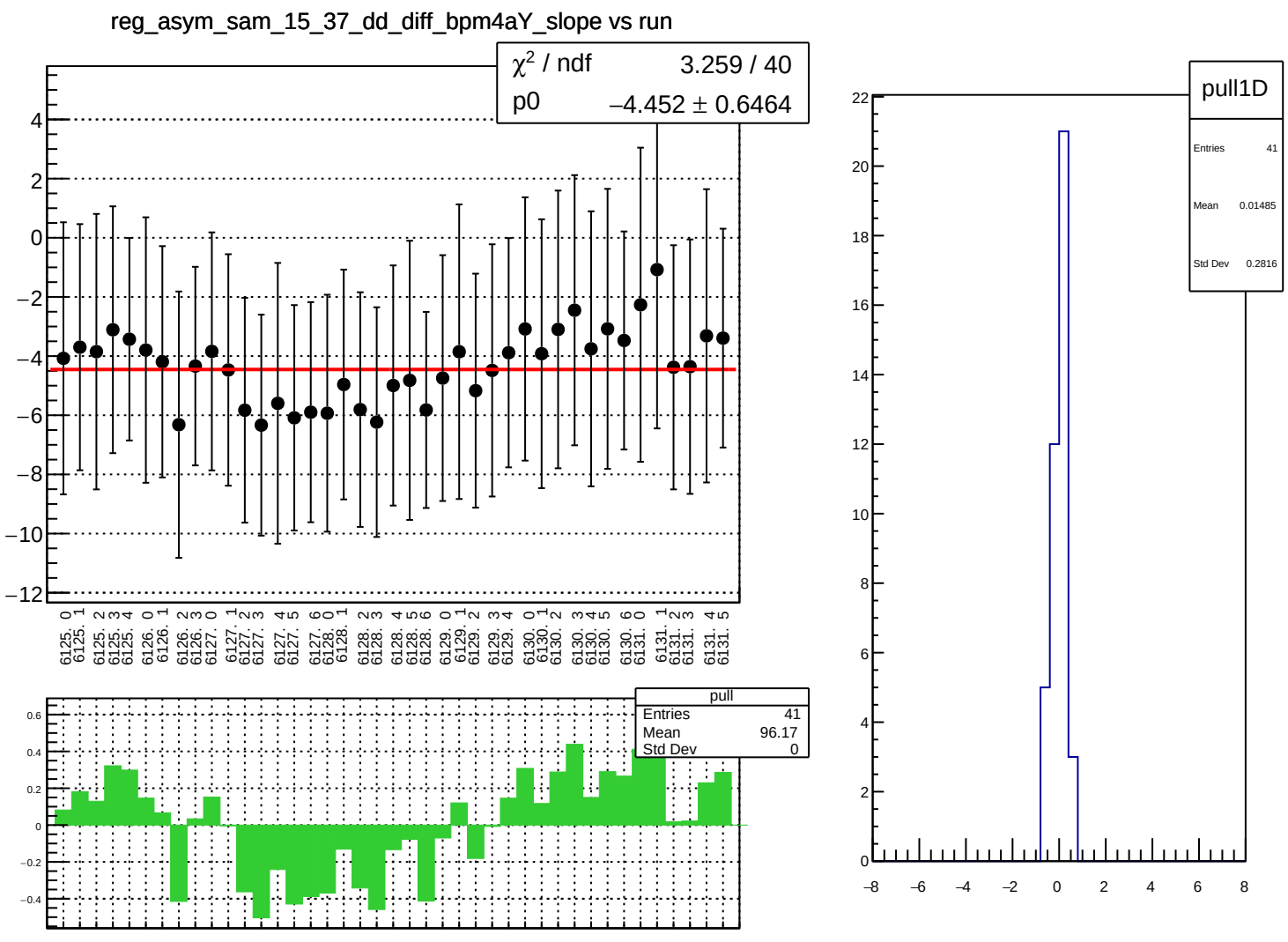

pull1D
Entries 41
Mean 0.002064
Std Dev 0.4083

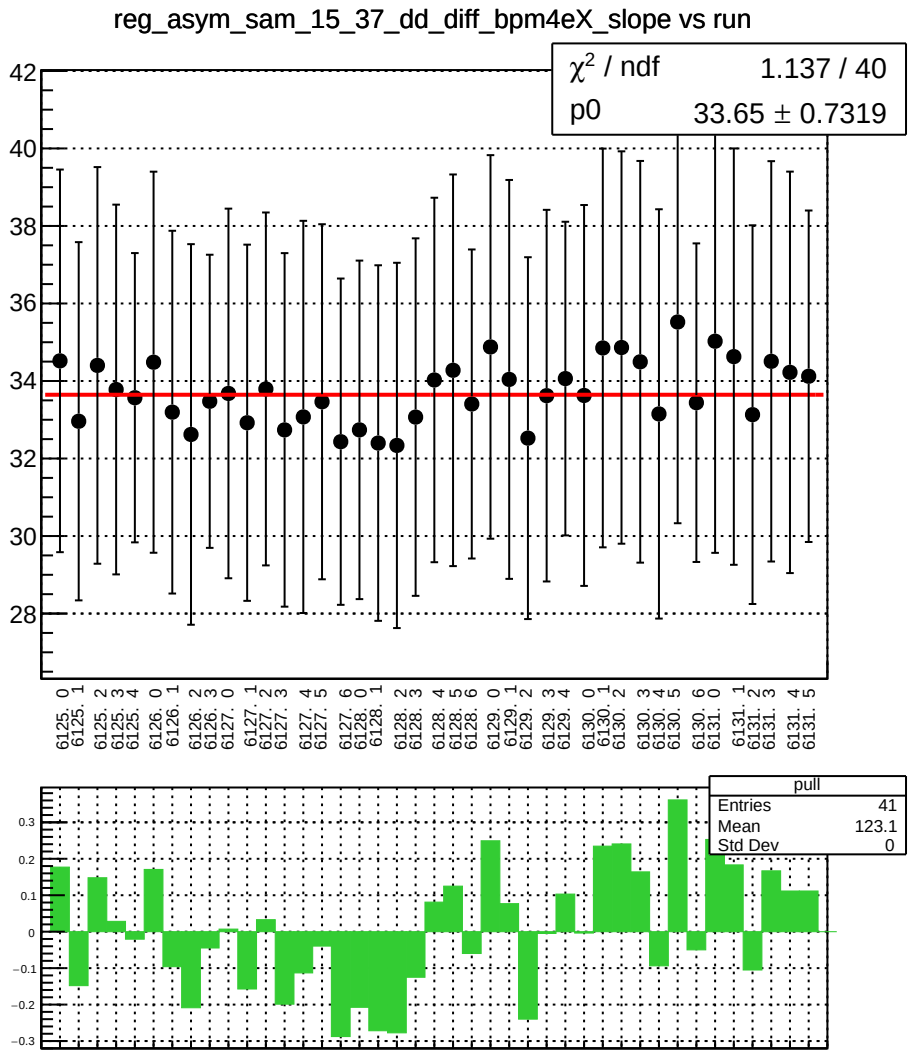

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.594 / 40
p0 −12.2 ± 0.7077
pull
Entries 41
Mean 145.2
Std Dev 0

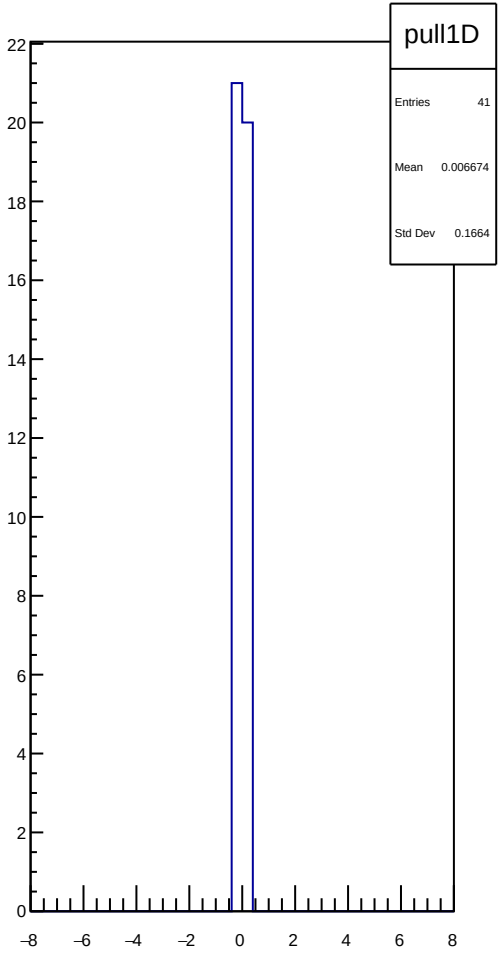

pull1D
Entries 41
Mean 0.007355
Std Dev 0.2514

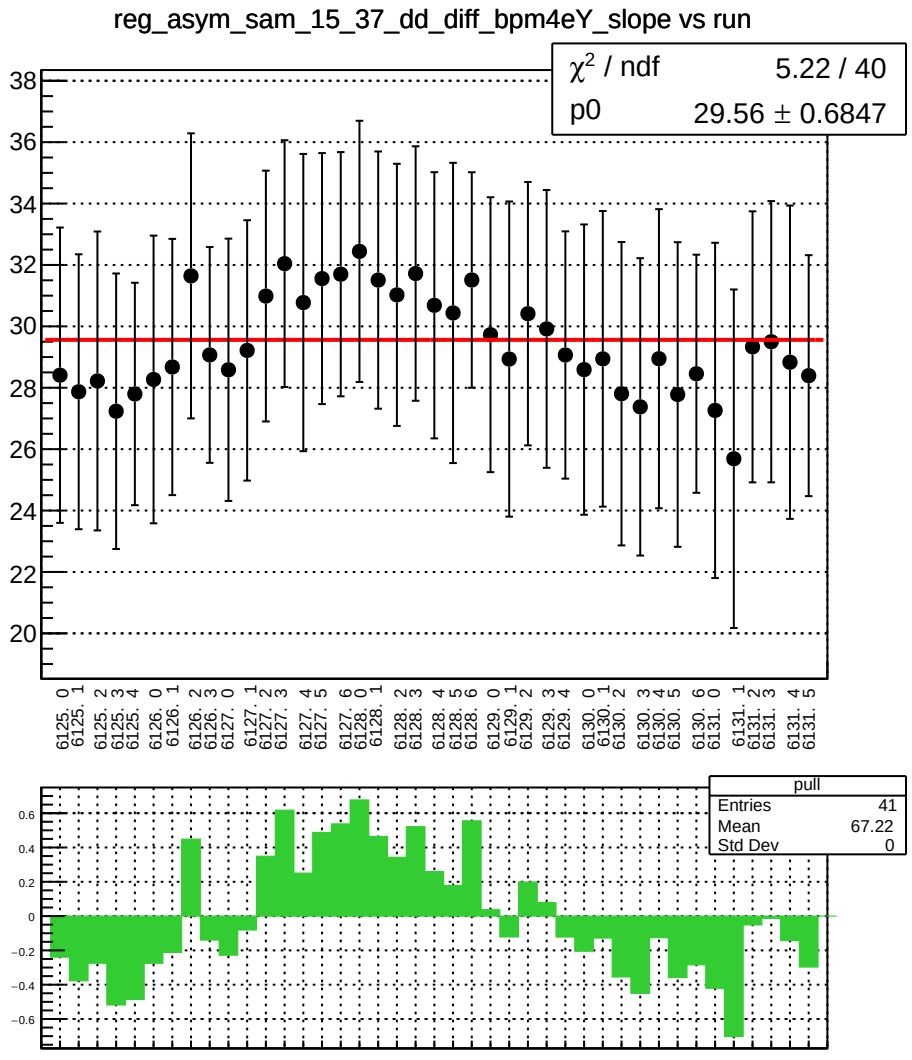

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 2.517 / 40
p0 0.01756 ± 0.05934
pull
Entries 41
Mean 286.7
Std Dev 0
pull1D
Entries 41
Mean 0.0008476
Std Dev 0.2478

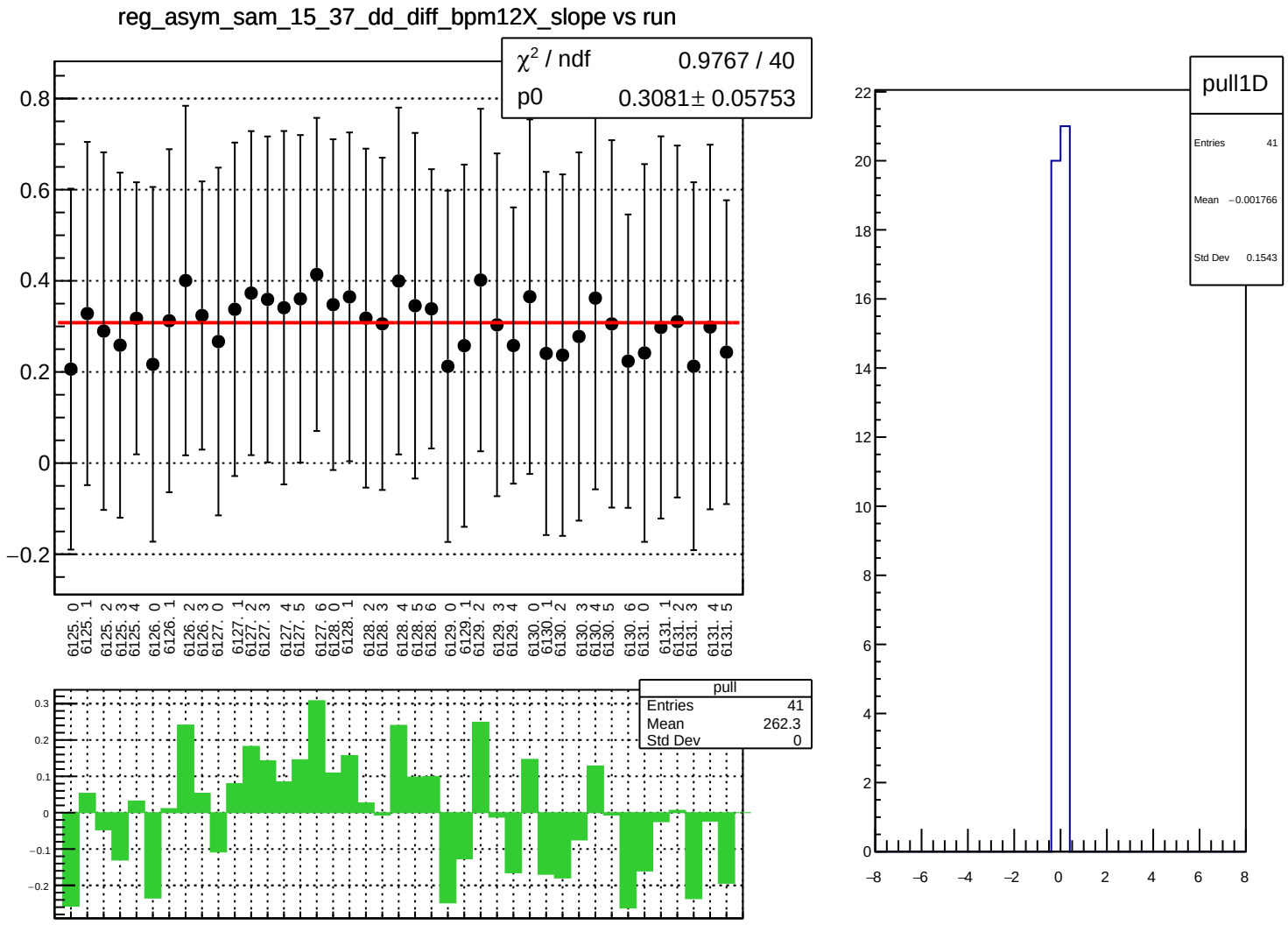

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 0.8358 / 40
p0 1.52 ± 0.6007
pull
Entries 41
Mean 113.9
Std Dev 0
pull1D
Entries 41
Mean −0.004618
Std Dev 0.1427

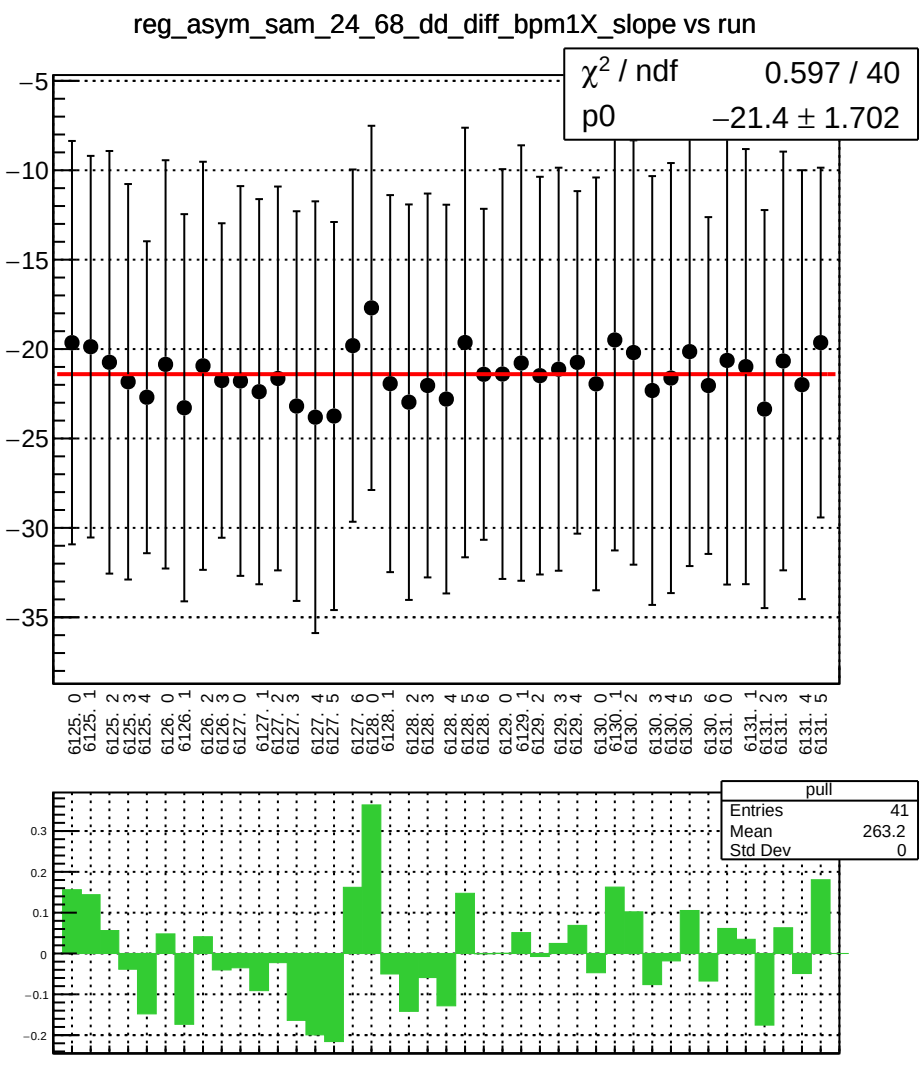

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.259 / 40
p0 −4.452 ± 0.6464
pull
Entries 41
Mean 96.17
Std Dev 0
pull1D
Entries 41
Mean 0.01485
Std Dev 0.2816

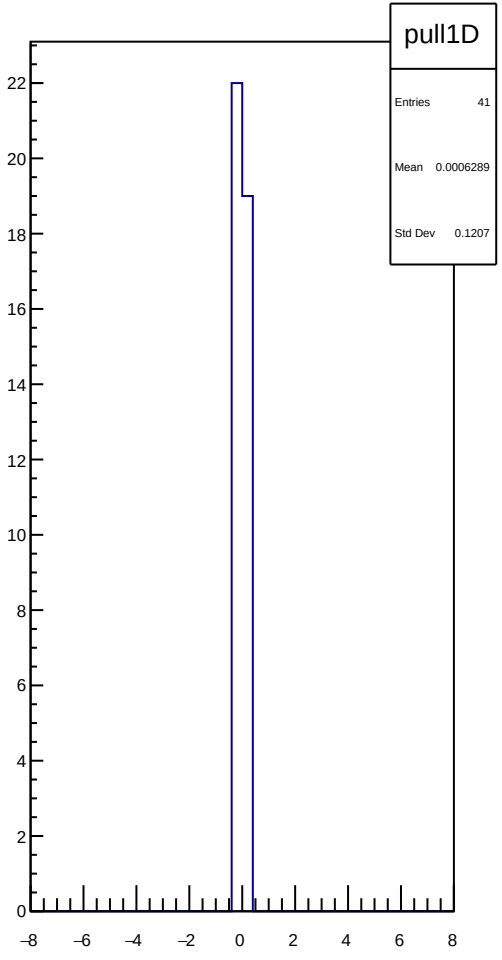

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.137 / 40
p0 33.65 ± 0.7319
pull
Entries 41
Mean 123.1
Std Dev 0

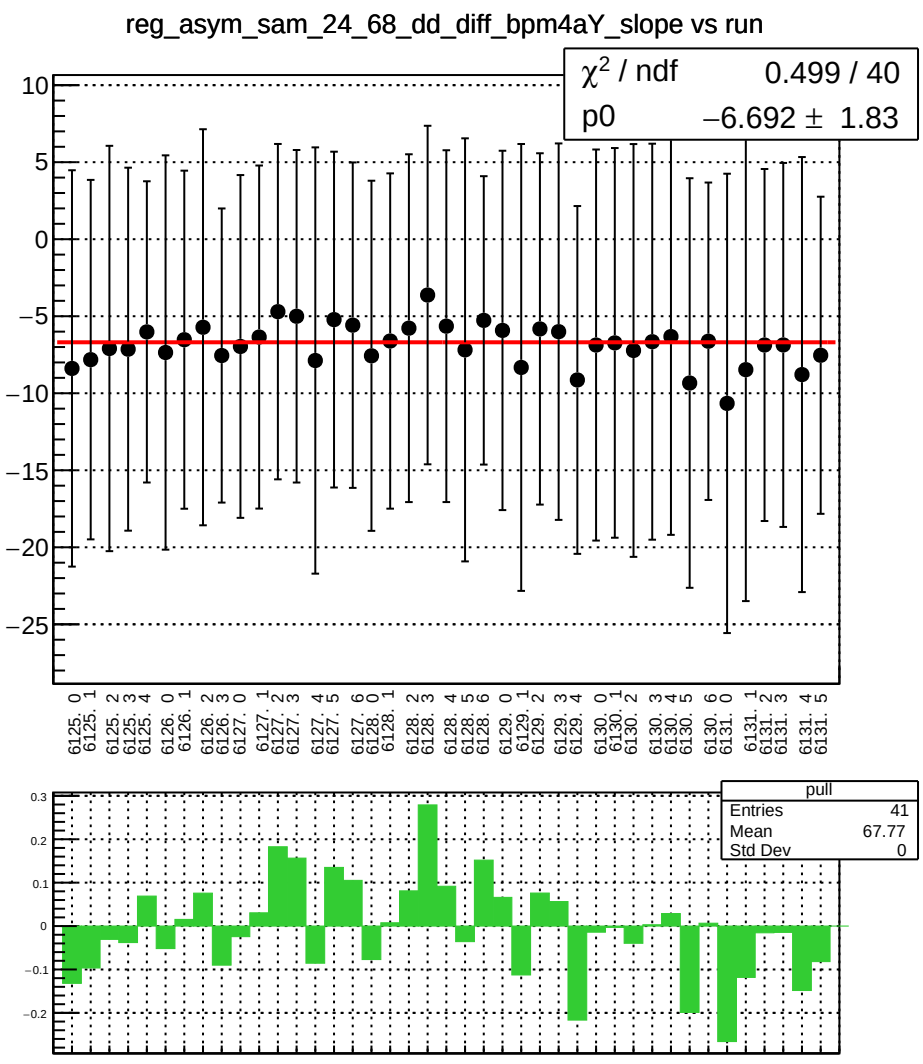

pull1D
Entries 41
Mean 0.006674
Std Dev 0.1664

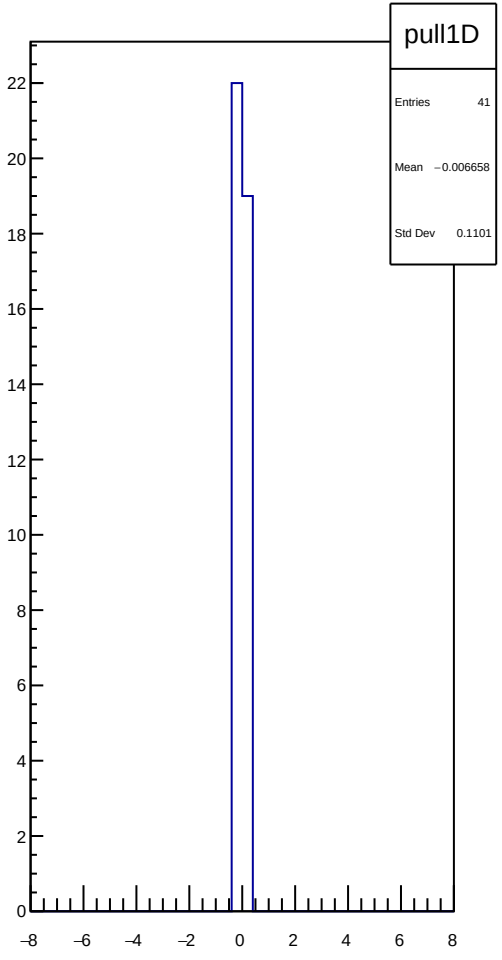

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.22 / 40
p0 29.56 ± 0.6847
pull
Entries 41
Mean 67.22
Std Dev 0
pull1D
Entries 41
Mean −0.01476
Std Dev 0.3565

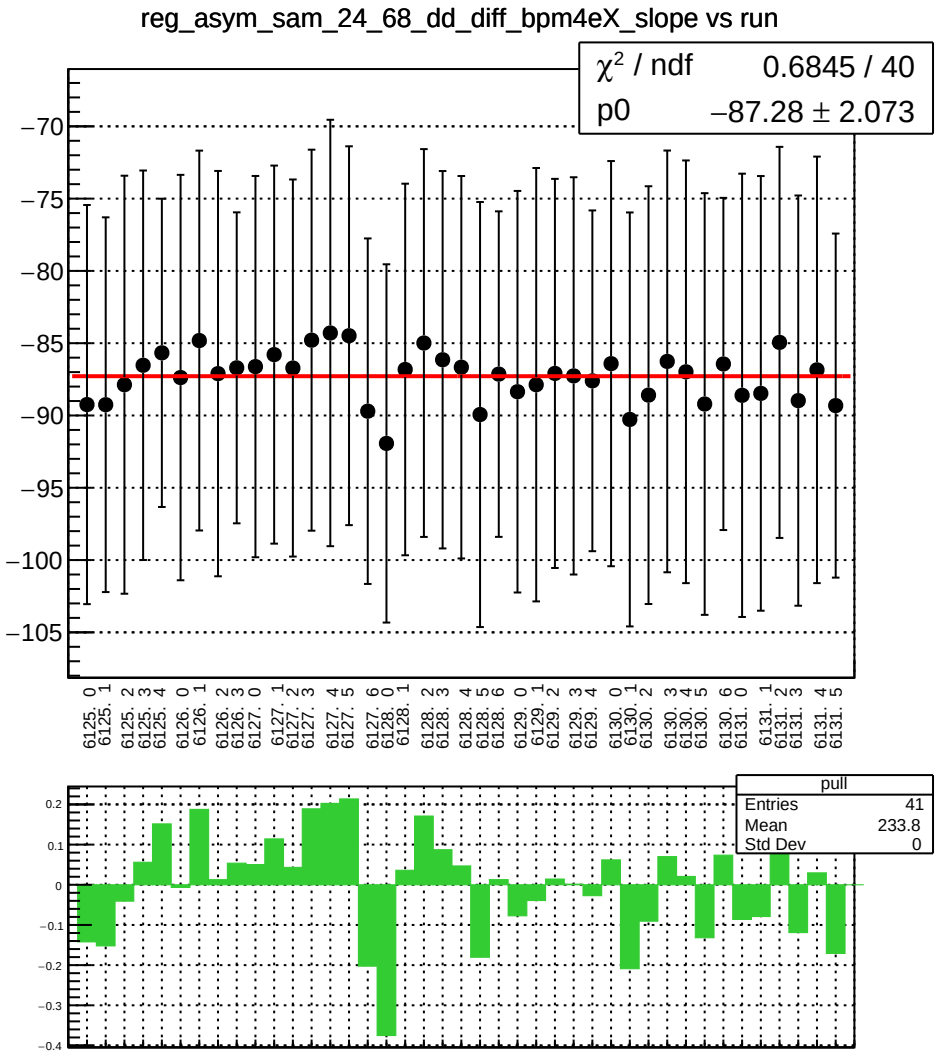

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 0.9767 / 40
p0 0.3081± 0.05753
0.8
0.6
0.4
0.2
0
−0.2
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 262.3
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 41
Mean −0.001766
Std Dev 0.1543
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

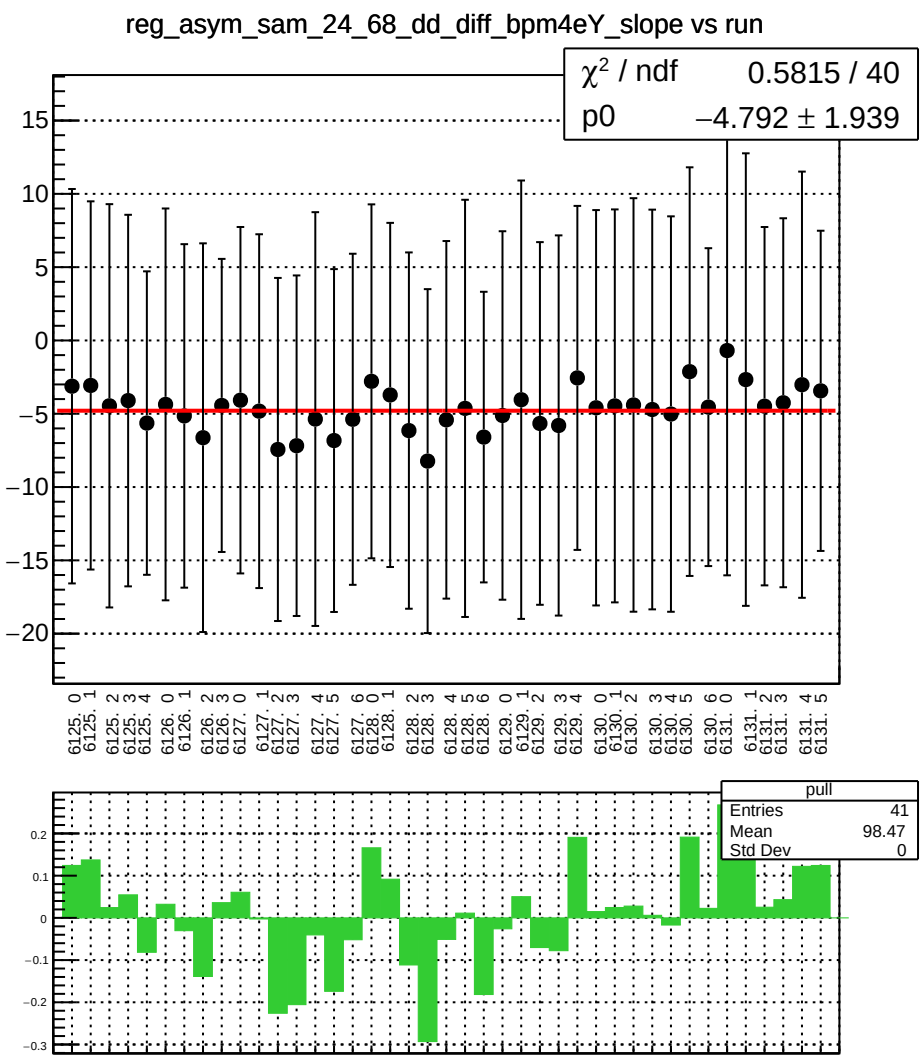

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 0.597 / 40
p0 −21.4 ± 1.702
−5
−10
−15
−20
−25
−30
−35
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 263.2
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2

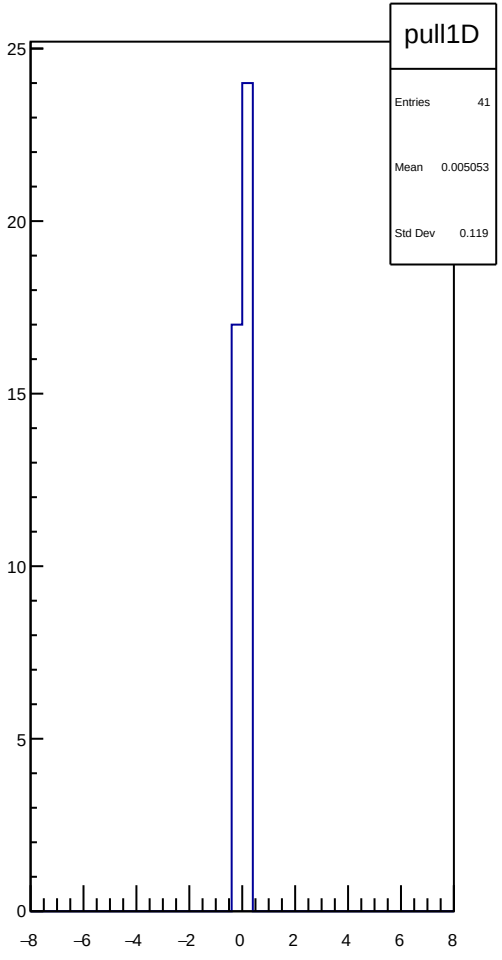

pull1D
Entries 41
Mean 0.0006289
Std Dev 0.1207
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

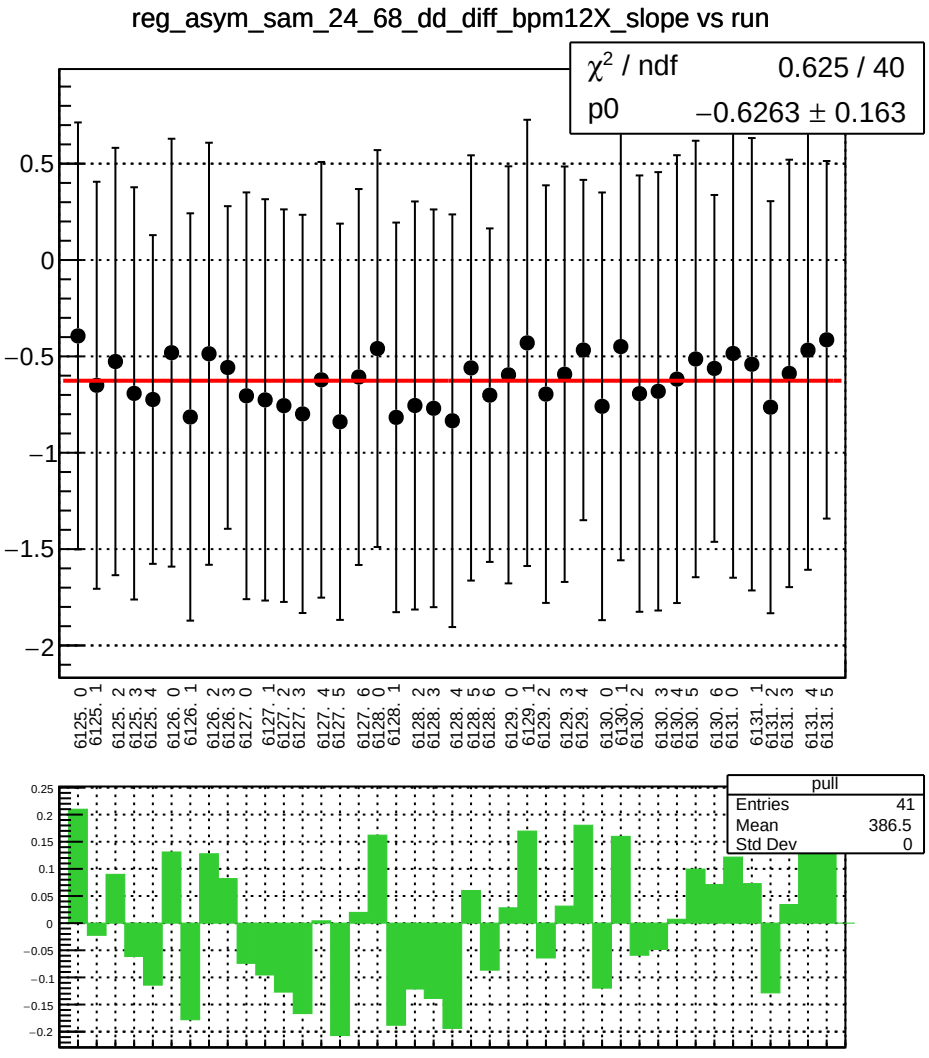

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.499 / 40
p0 −6.692 ± 1.83
pull
Entries 41
Mean 67.77
Std Dev 0

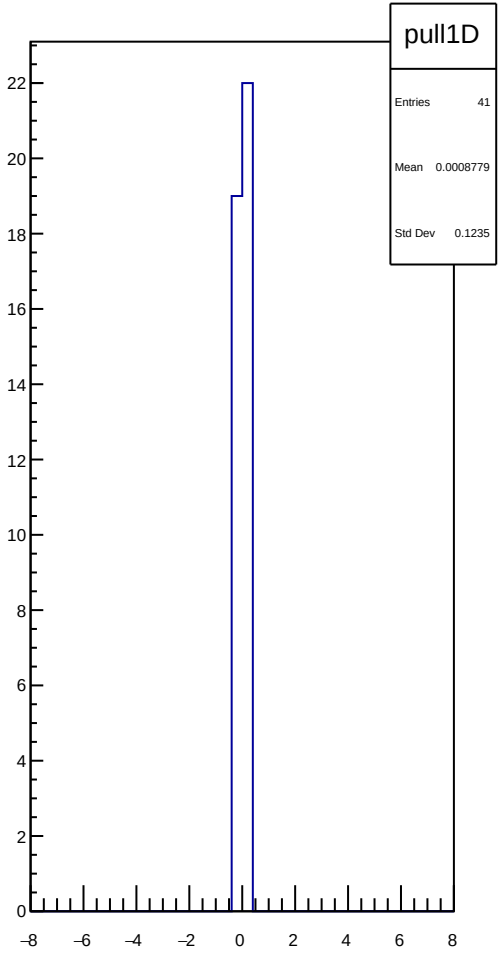

pull1D
Entries 41
Mean −0.006658
Std Dev 0.1101

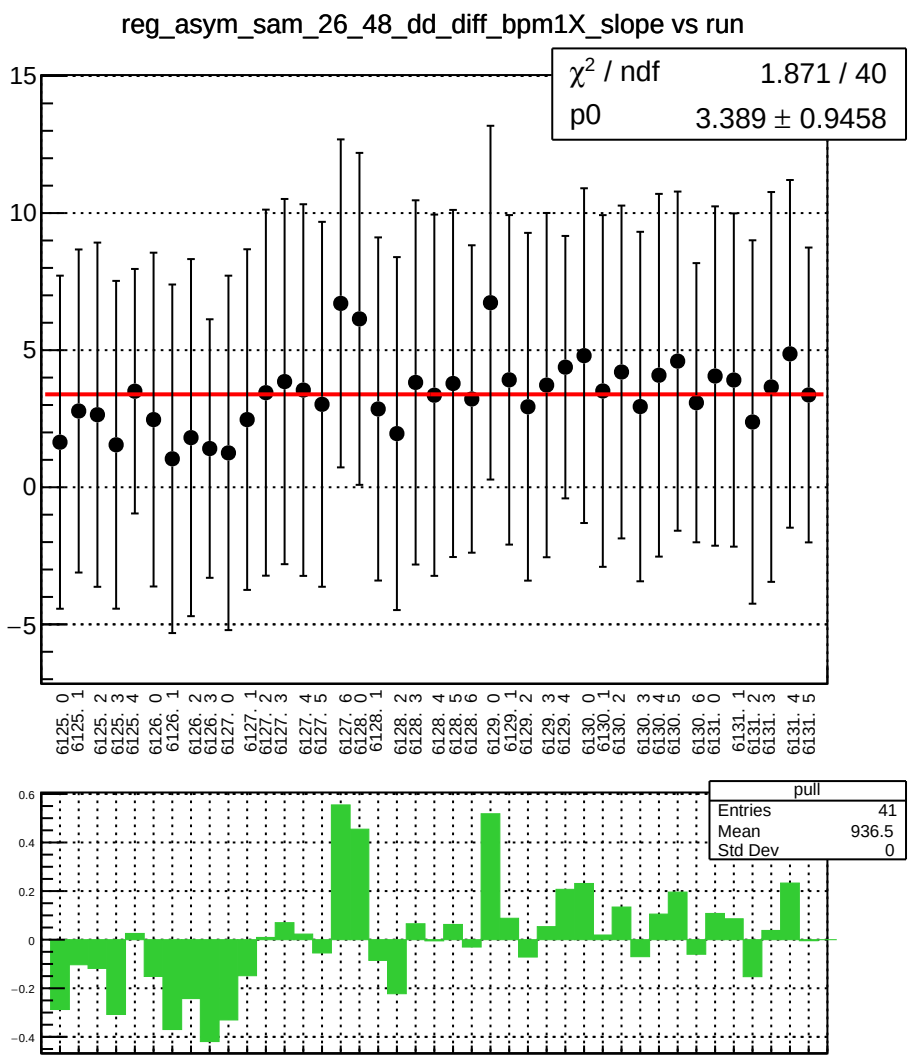

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.6845 / 40
p0 −87.28 ± 2.073
pull
Entries 41
Mean 233.8
Std Dev 0
pull1D
Entries 41
Mean −0.001348
Std Dev 0.1292

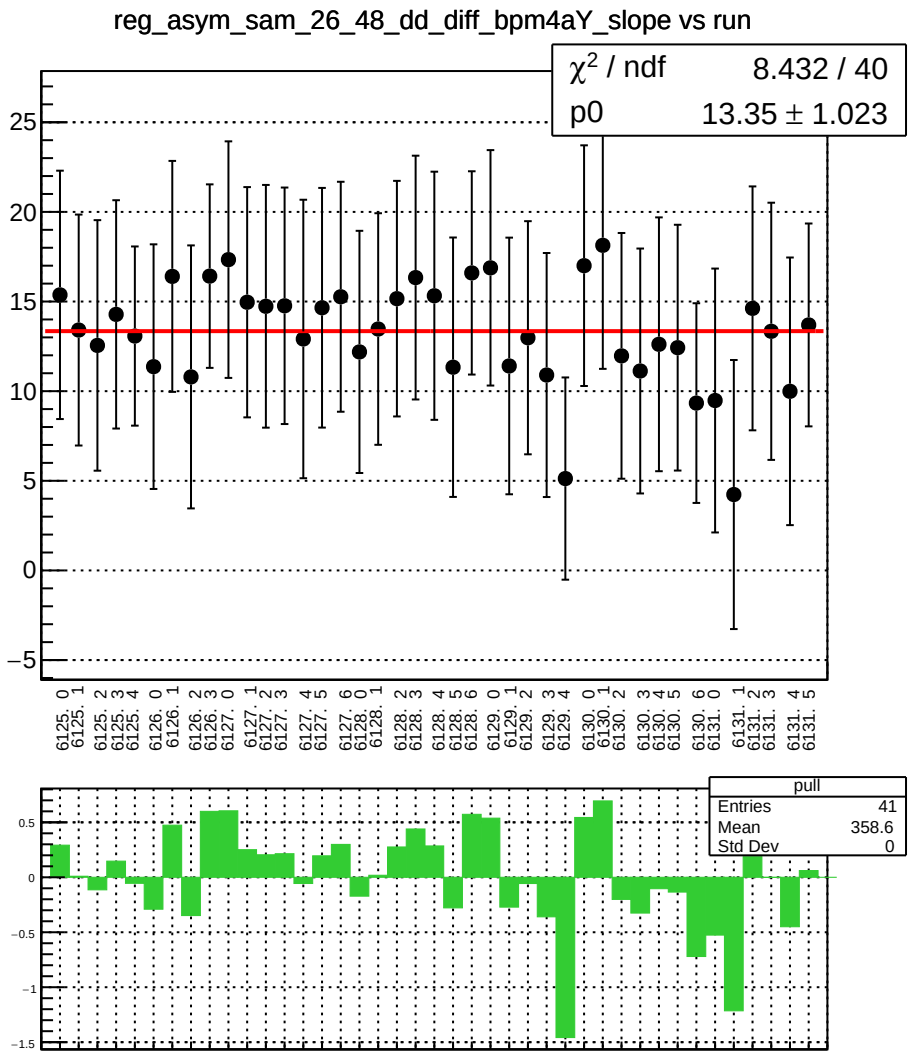

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.5815 / 40
p0 −4.792 ± 1.939
pull
Entries 41
Mean 98.47
Std Dev 0

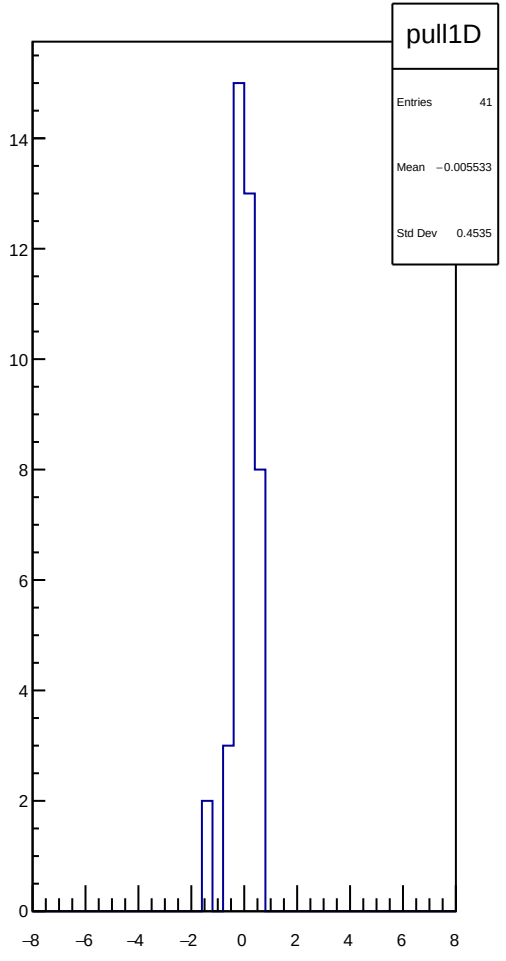

pull1D
Entries 41
Mean 0.005053
Std Dev 0.119

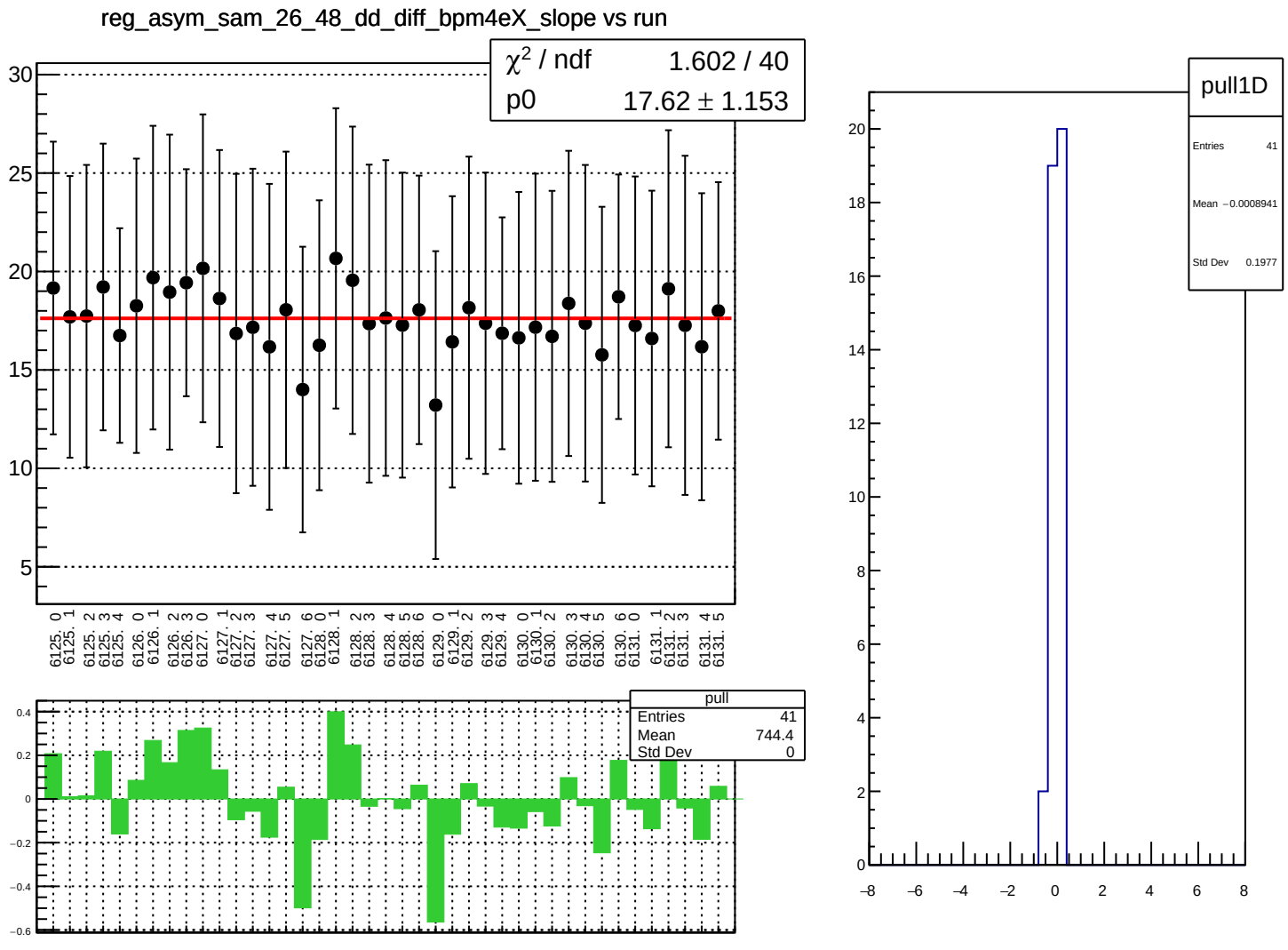

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.625 / 40
p0 −0.6263 ± 0.163
pull
Entries 41
Mean 386.5
Std Dev 0

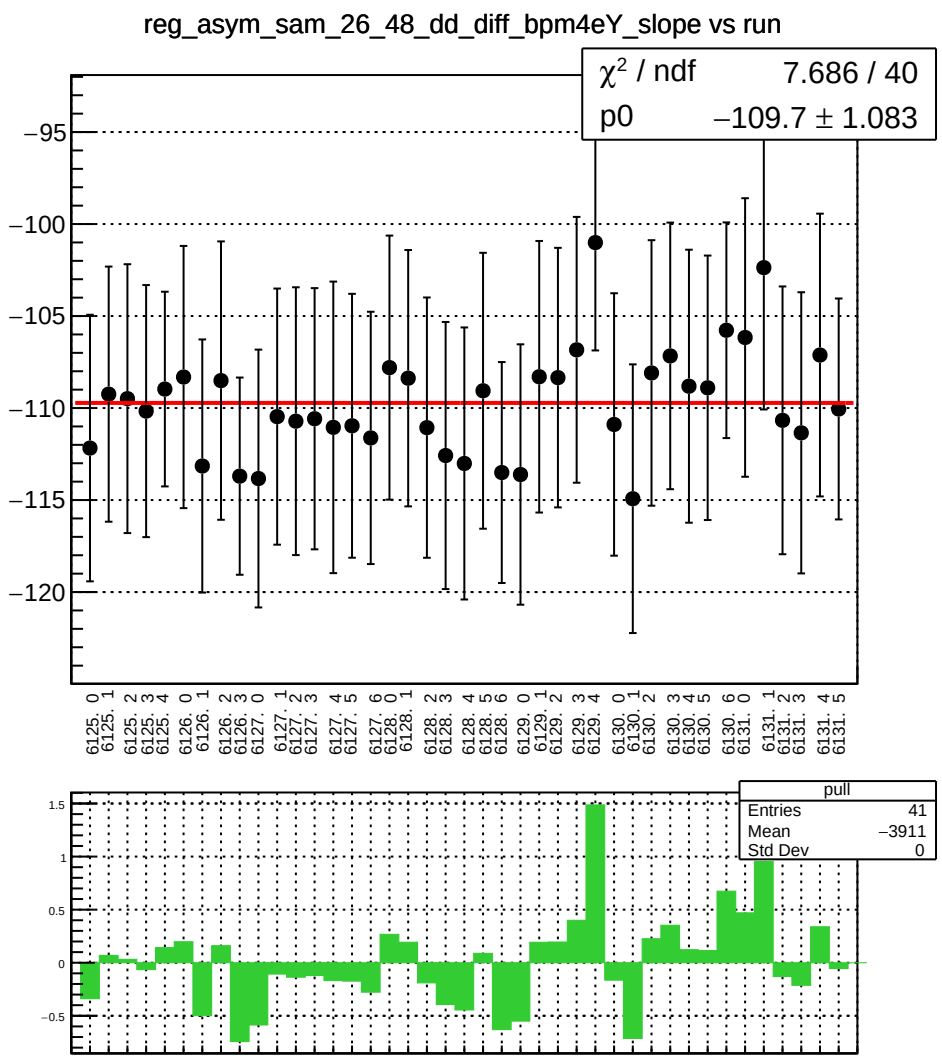

pull1D
Entries 41
Mean 0.0008779
Std Dev 0.1235

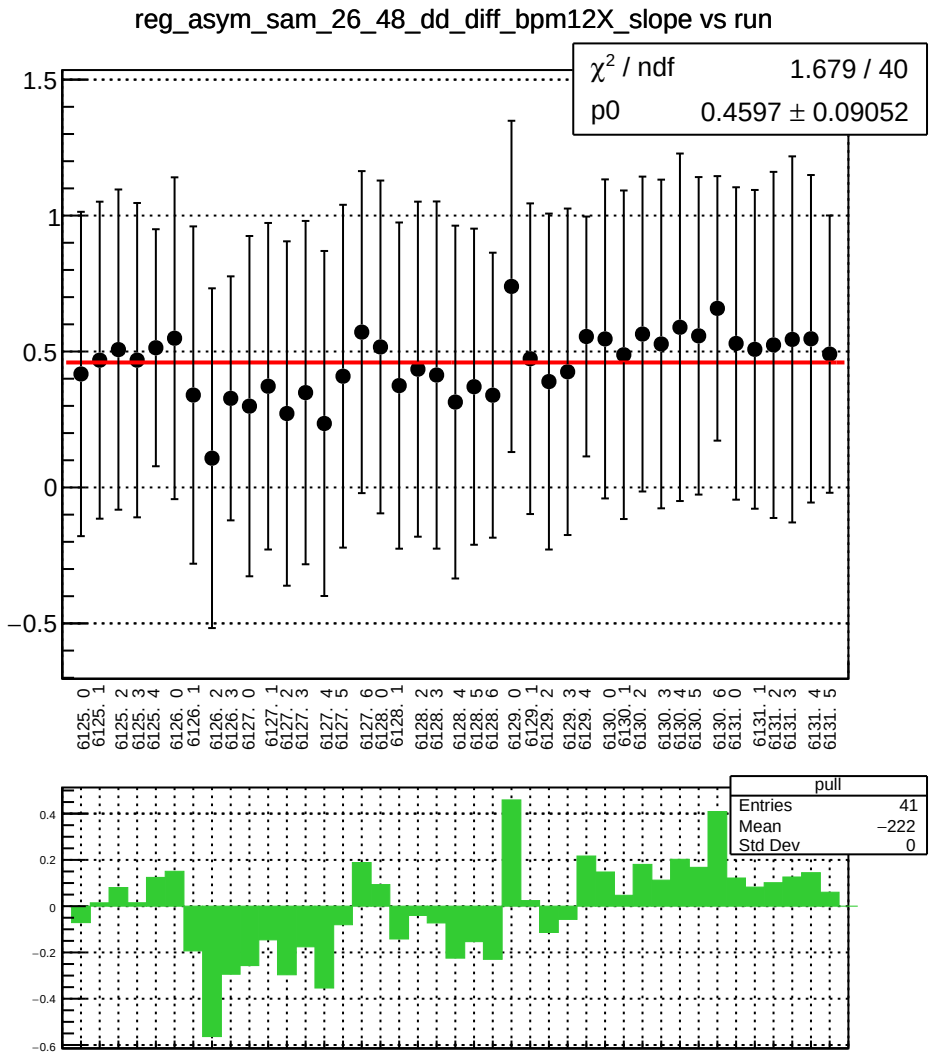

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1.871 / 40
p0 3.389 ± 0.9458
15
10
5
0
−5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 936.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 41
Mean 0.001206
Std Dev 0.2136
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

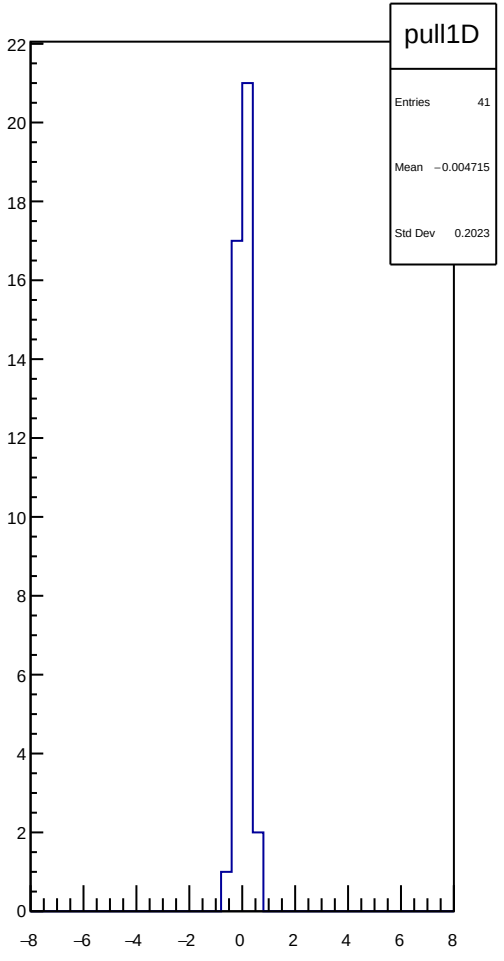

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.432 / 40
p0 13.35 ± 1.023
pull
Entries 41
Mean 358.6
Std Dev 0

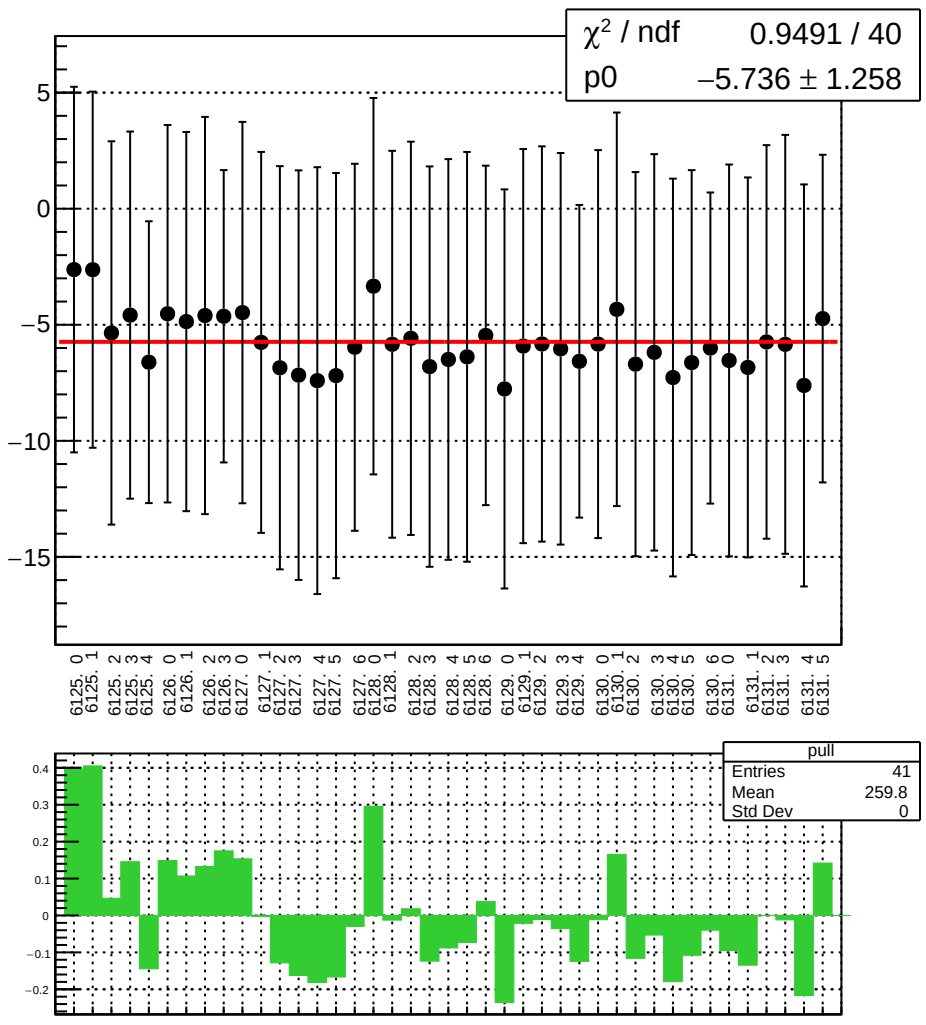

pull1D
Entries 41
Mean −0.005533
Std Dev 0.4535

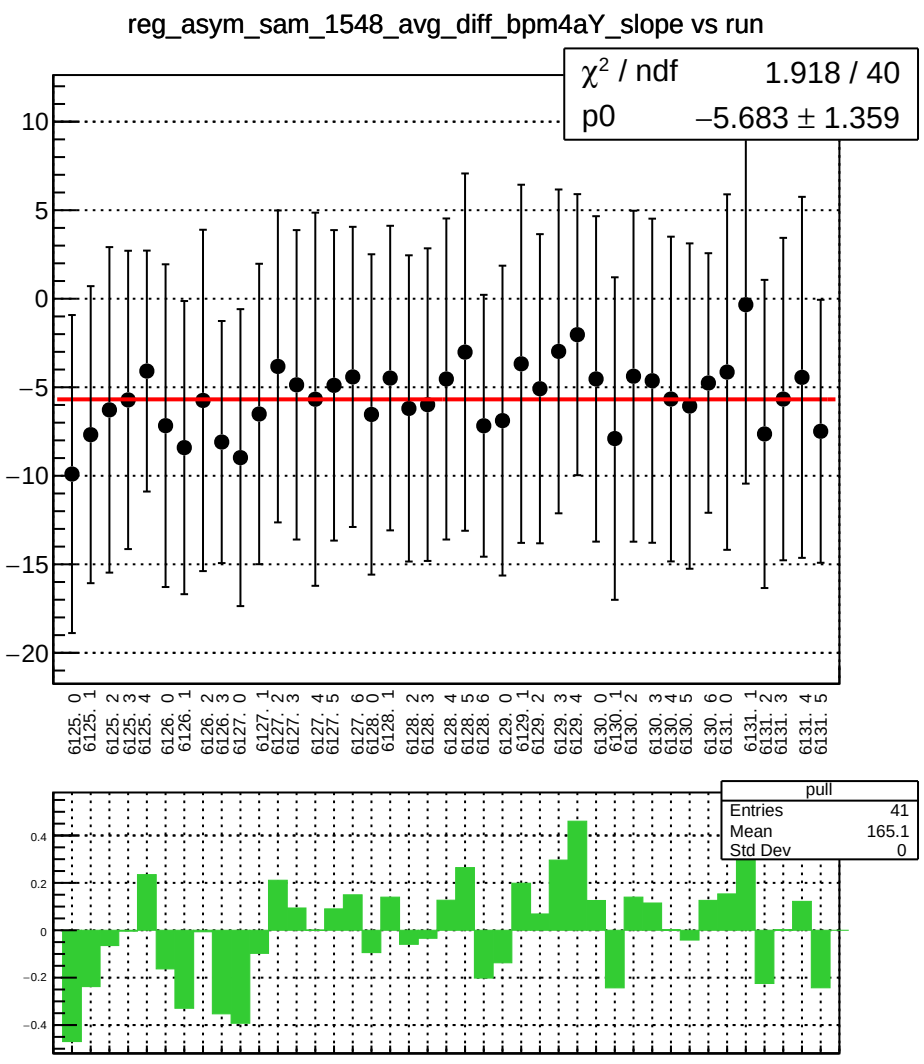

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.602 / 40
p0 17.62 ± 1.153
30
25
20
15
10
5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 744.4
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean −0.0008941
Std Dev 0.1977
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

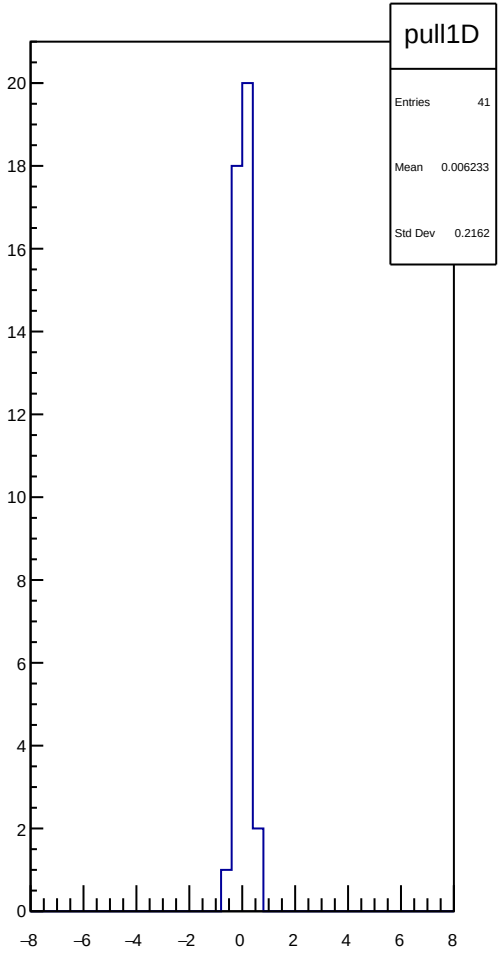

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.686 / 40
p0 −109.7 ± 1.083
−95
−100
−105
−110
−115
−120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −3911
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 41
Mean −0.0004413
Std Dev 0.433
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

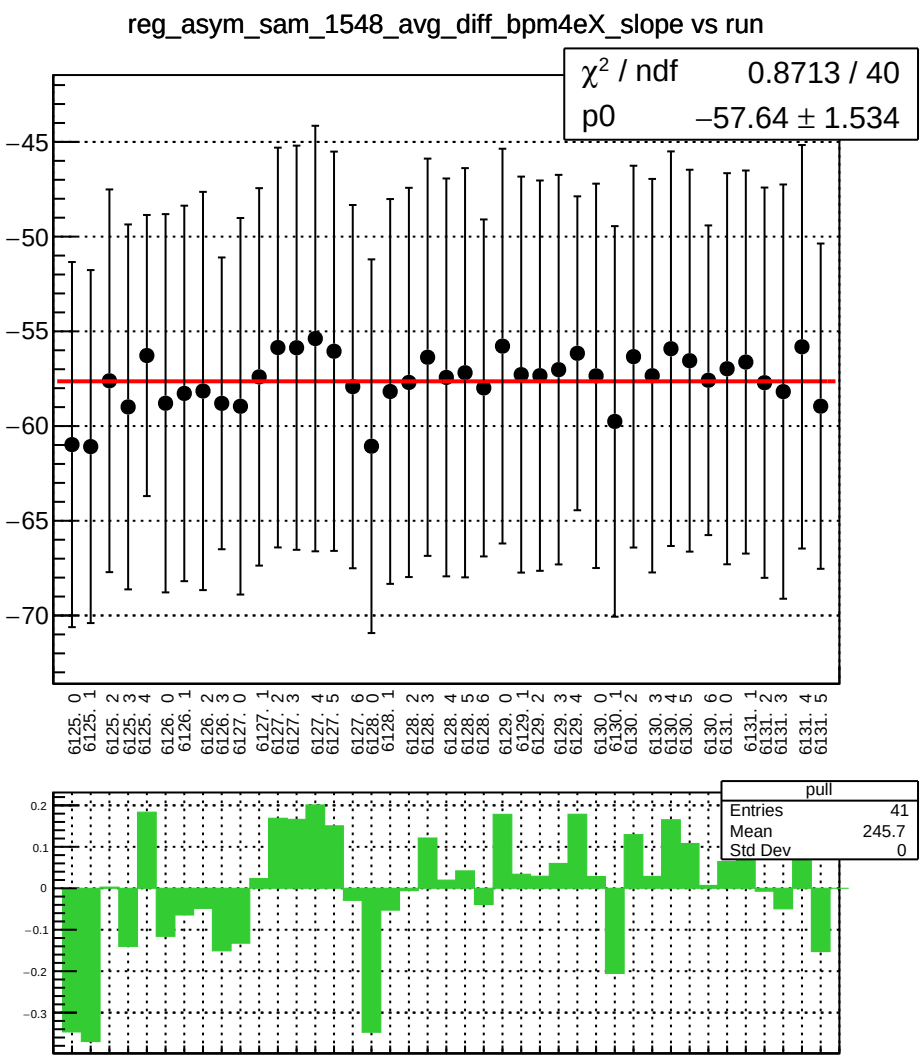

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1.679 / 40
p0 0.4597 ± 0.09052
pull
Entries 41
Mean −222
Std Dev 0

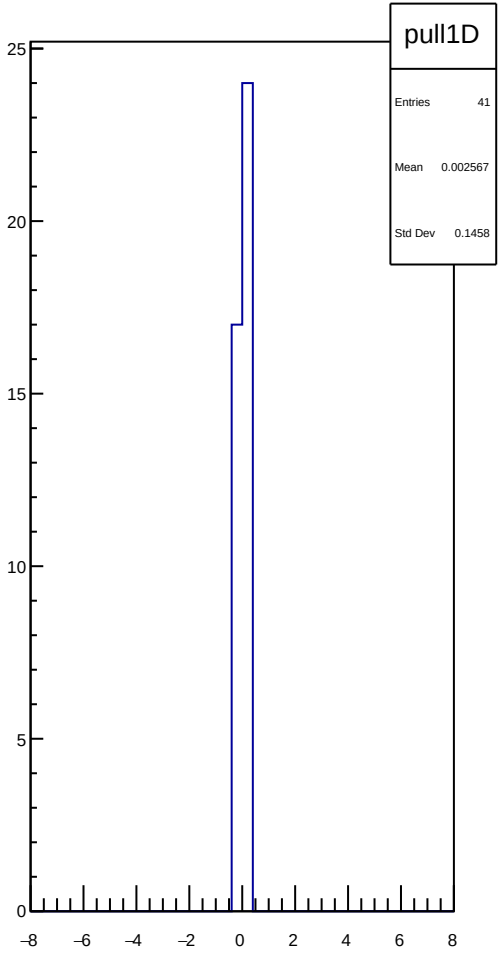

pull1D
Entries 41
Mean −0.004715
Std Dev 0.2023

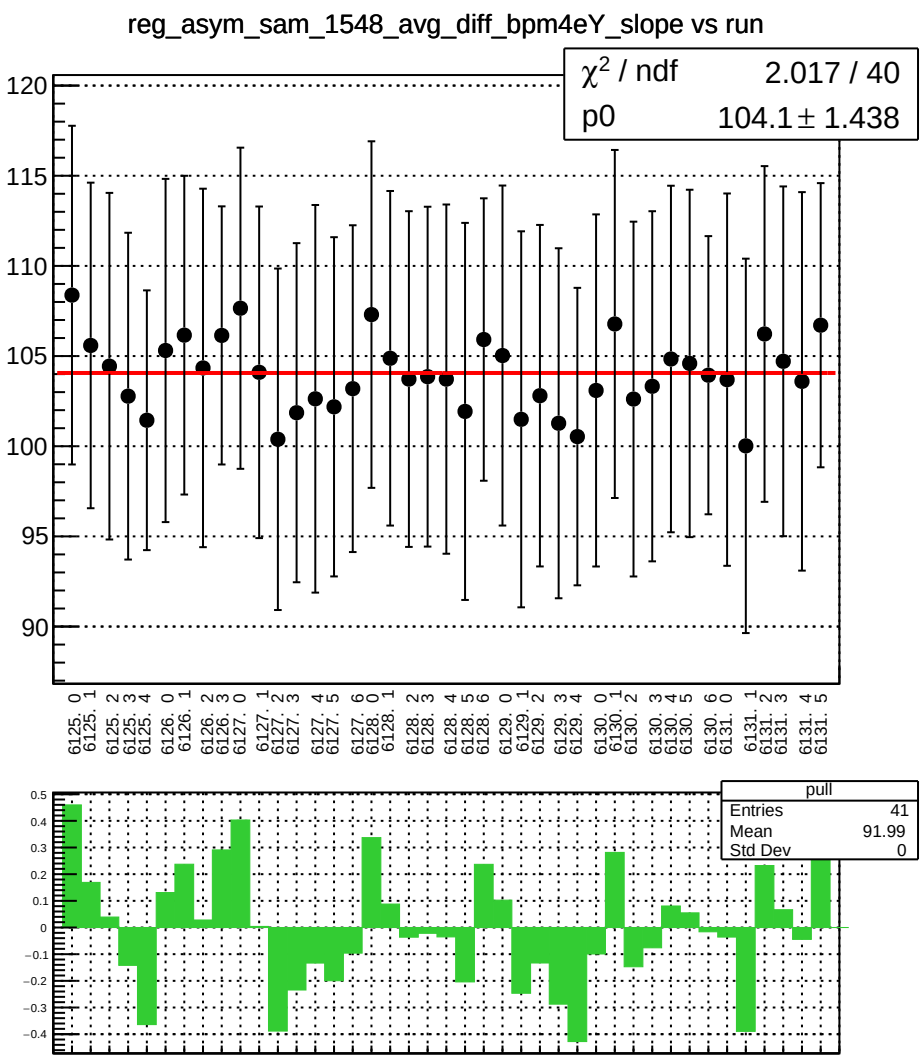

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 0.9491 / 40
p0 −5.736 ± 1.258
5
0
−5
−10
−15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 259.8
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 41
Mean −0.003412
Std Dev 0.1521
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

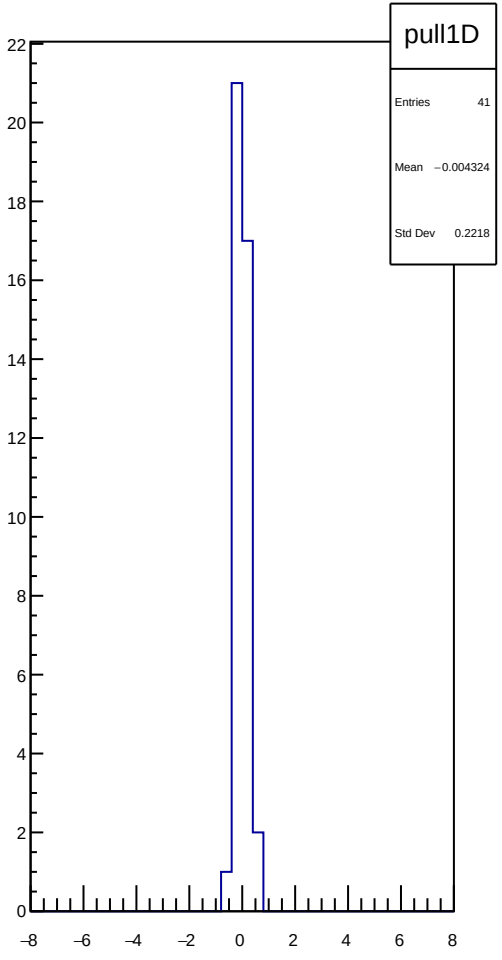

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.918 / 40
p0 −5.683 ± 1.359
pull
Entries 41
Mean 165.1
Std Dev 0

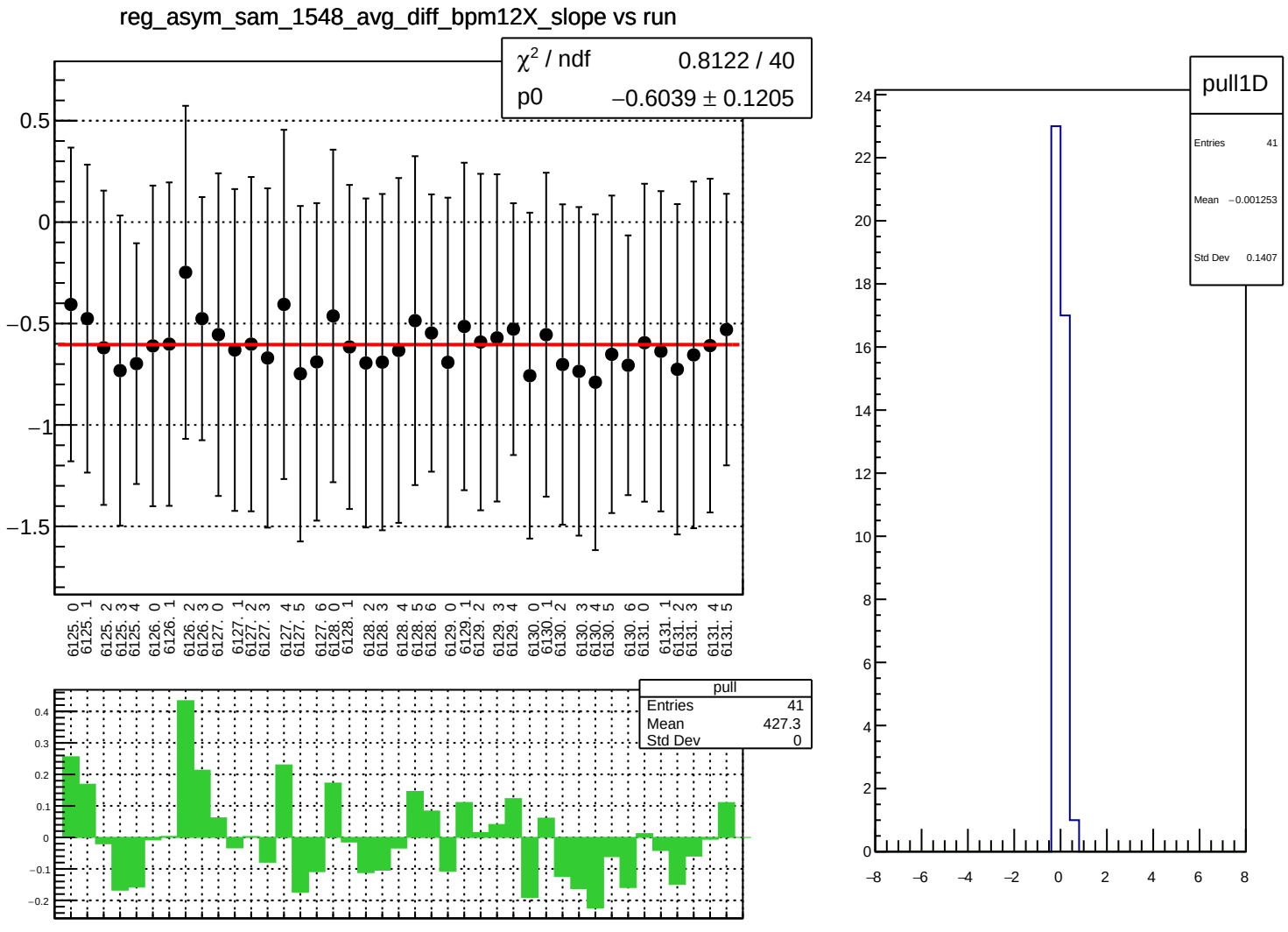

pull1D
Entries 41
Mean 0.006233
Std Dev 0.2162

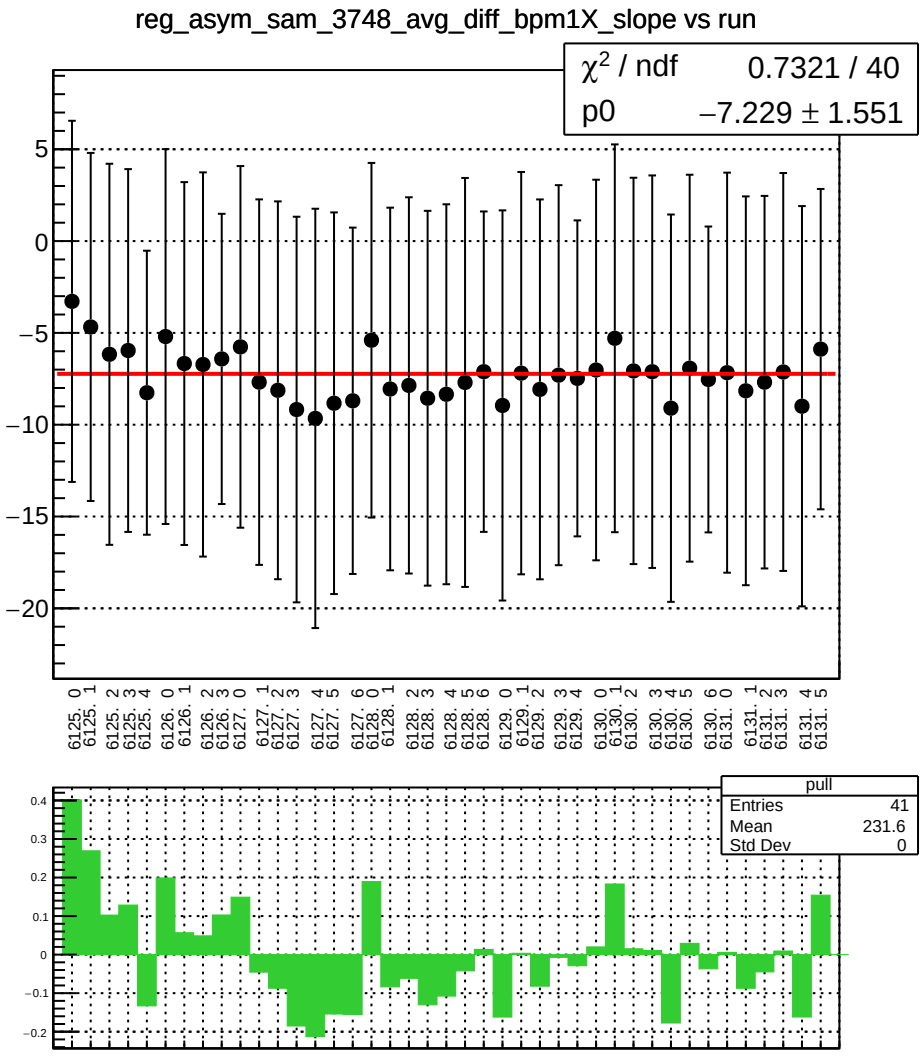

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.8713 / 40
p0 −57.64 ± 1.534
−45
−50
−55
−60
−65
−70
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 245.7
Std Dev 0
0.2
0.1
0
−0.1
−0.2
−0.3

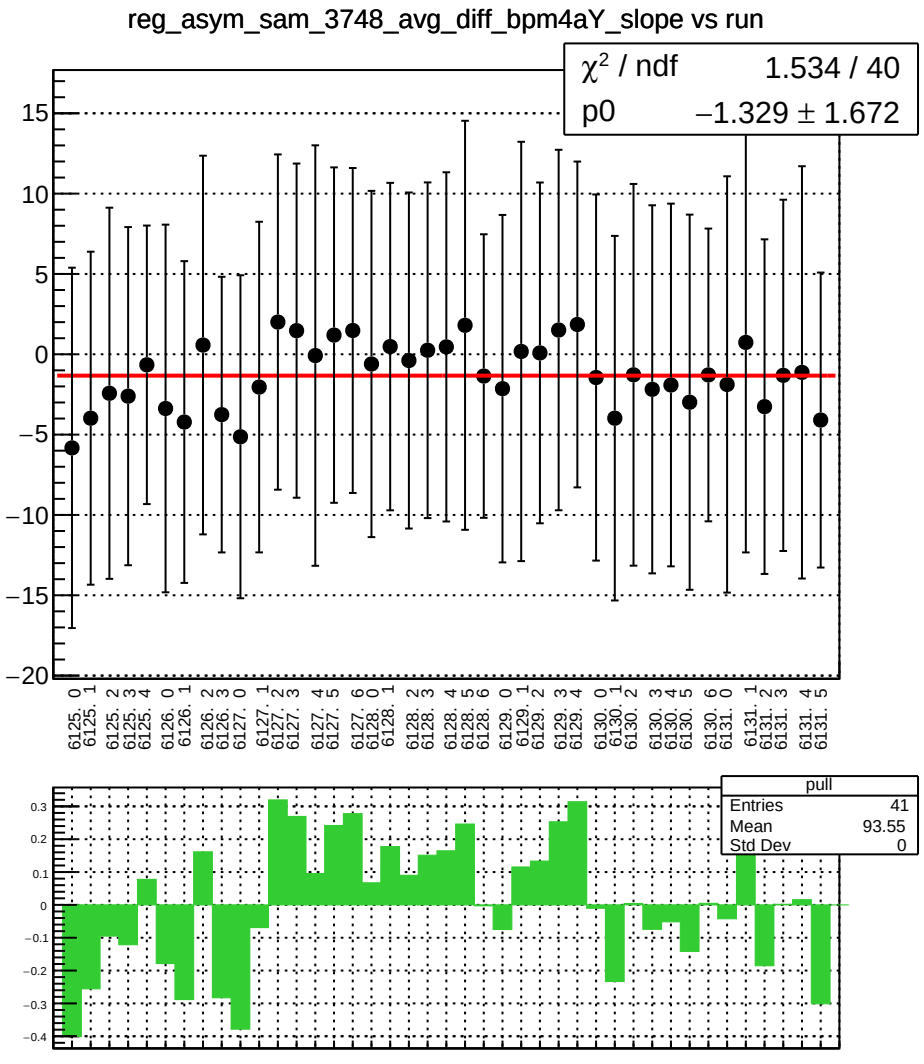

pull1D
Entries 41
Mean 0.002567
Std Dev 0.1458
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

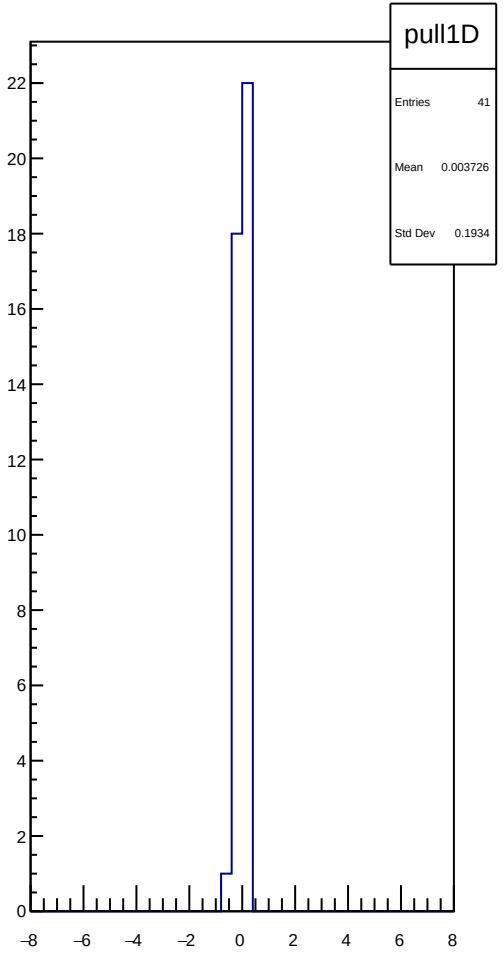

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.017 / 40
p0 104.1 ± 1.438
pull
Entries 41
Mean 91.99
Std Dev 0

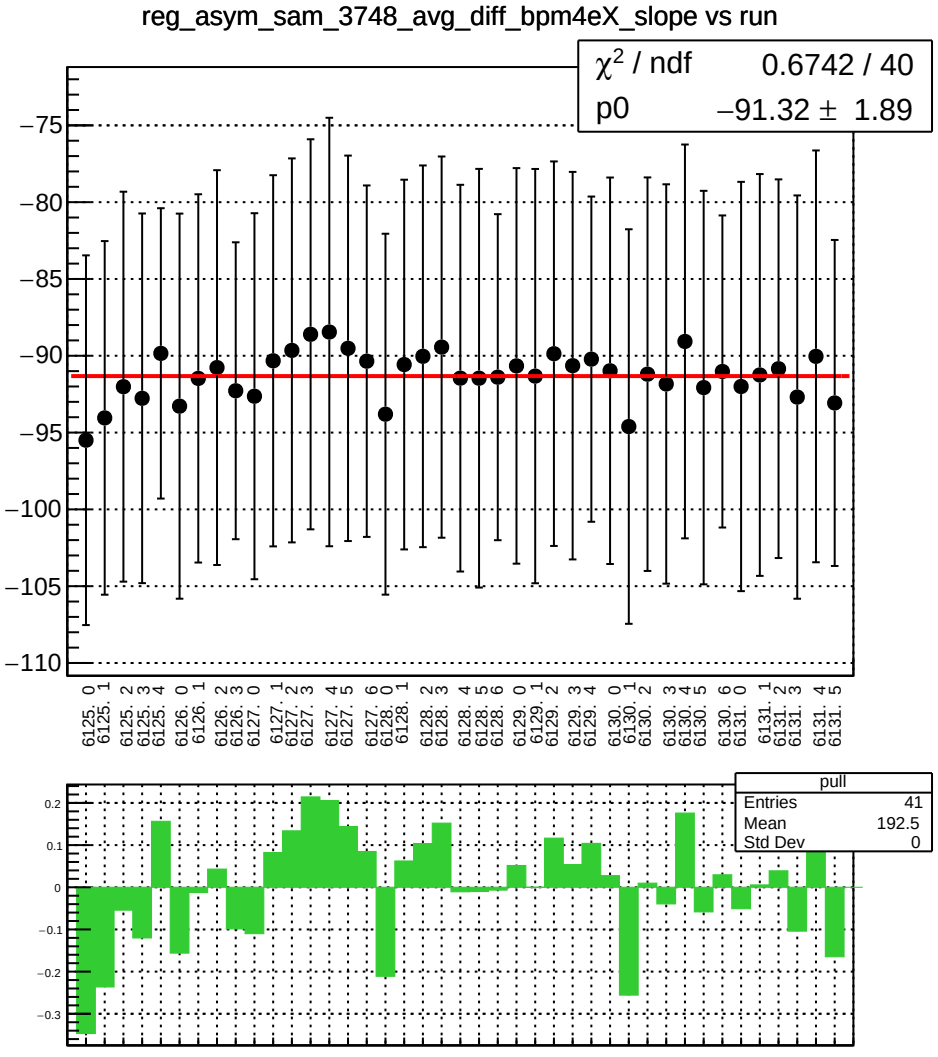

pull1D
Entries 41
Mean −0.004324
Std Dev 0.2218

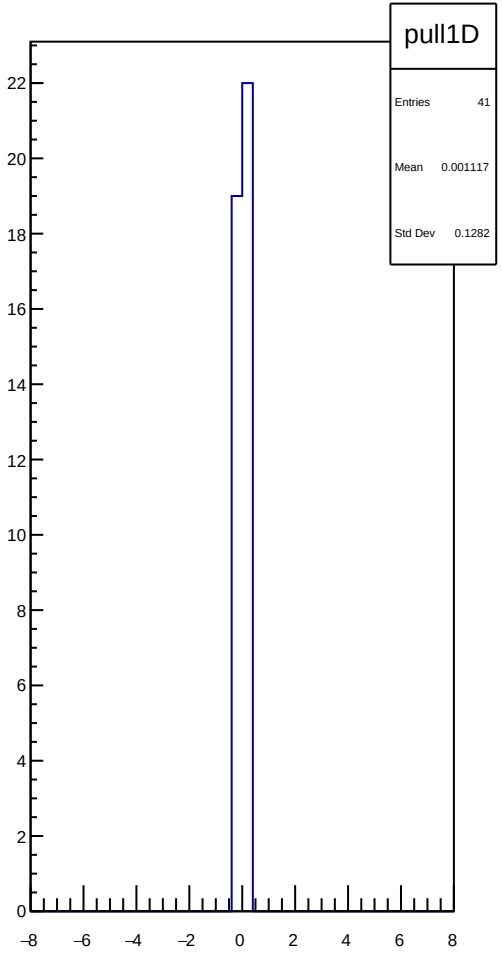

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 0.8122 / 40
p0 −0.6039 ± 0.1205
pull
Entries 41
Mean 427.3
Std Dev 0
pull1D
Entries 41
Mean −0.001253
Std Dev 0.1407

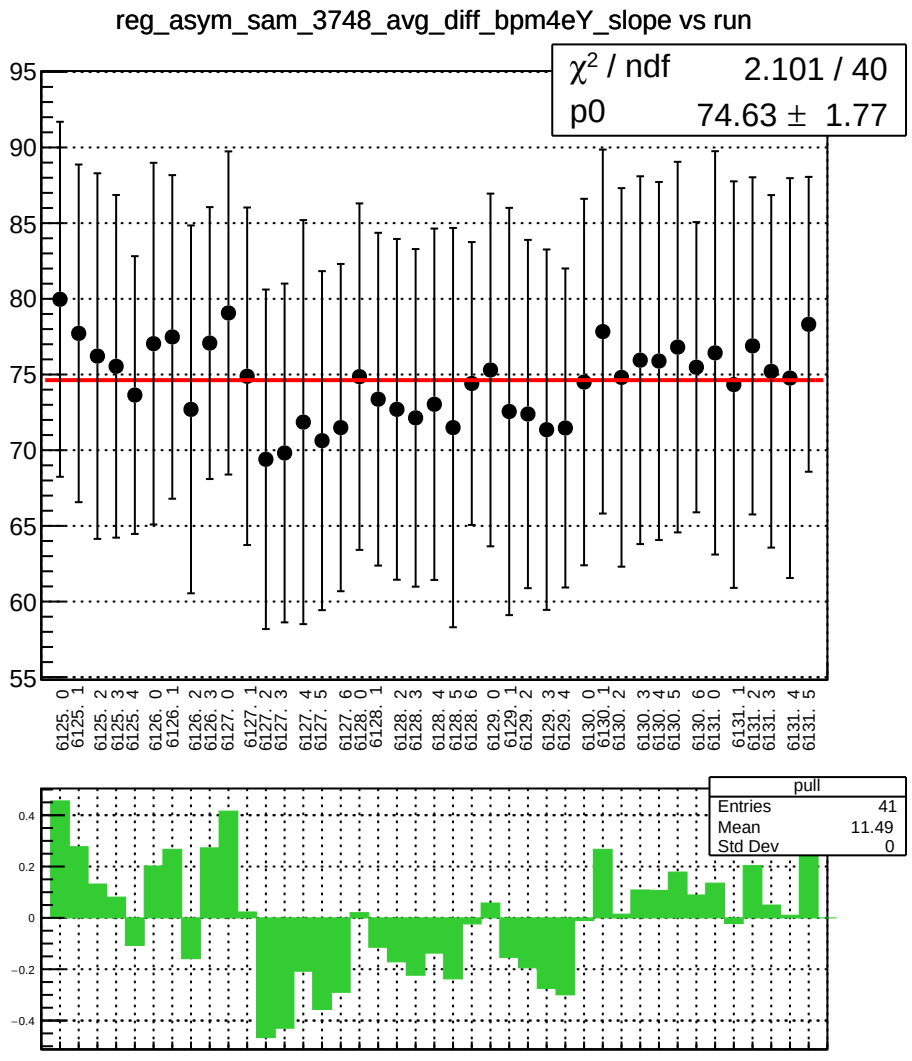

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 0.7321 / 40
p0 −7.229 ± 1.551
pull
Entries 41
Mean 231.6
Std Dev 0
pull1D
Entries 41
Mean −0.002299
Std Dev 0.1336

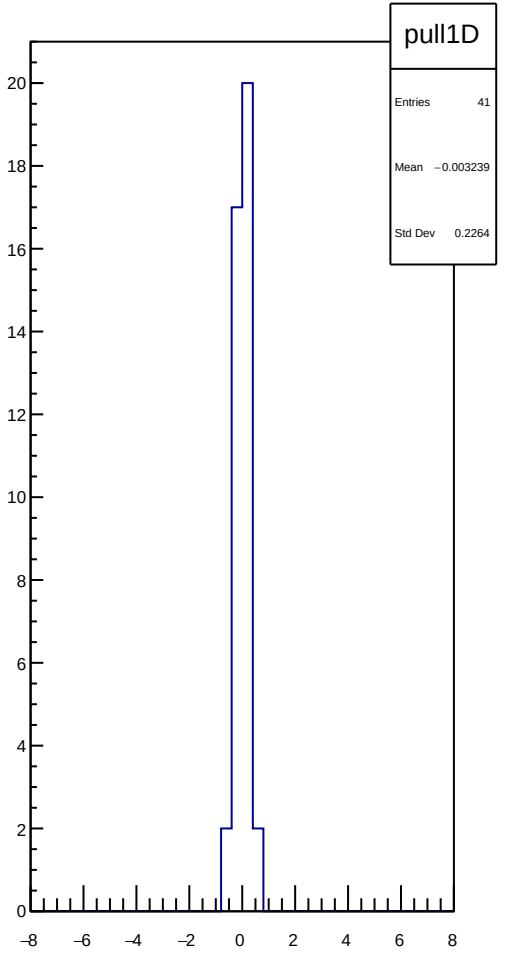

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.534 / 40
p0 −1.329 ± 1.672
pull
Entries 41
Mean 93.55
Std Dev 0

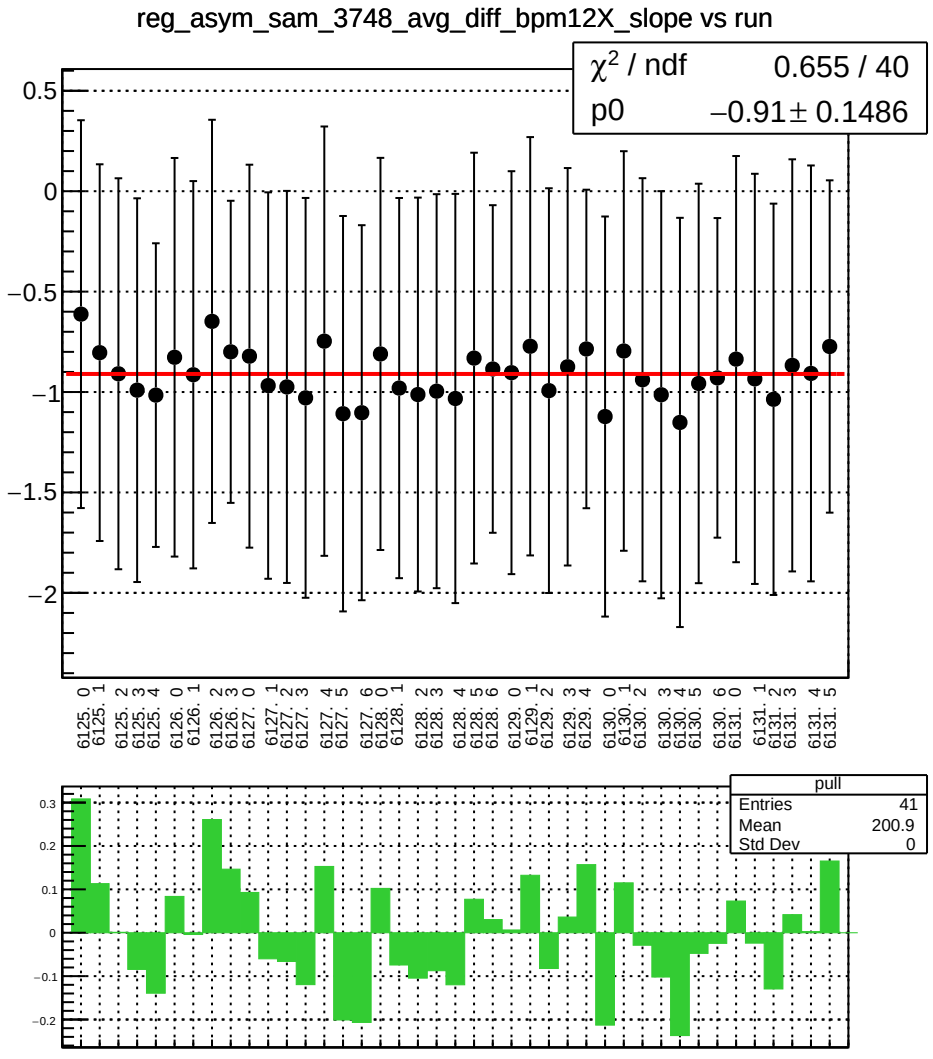

pull1D
Entries 41
Mean 0.003726
Std Dev 0.1934

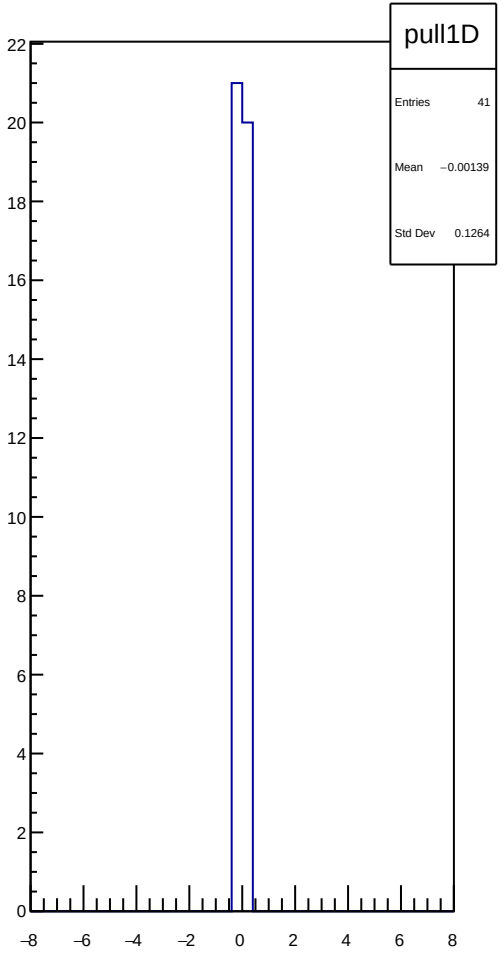

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.6742 / 40
p0 −91.32 ± 1.89
pull
Entries 41
Mean 192.5
Std Dev 0

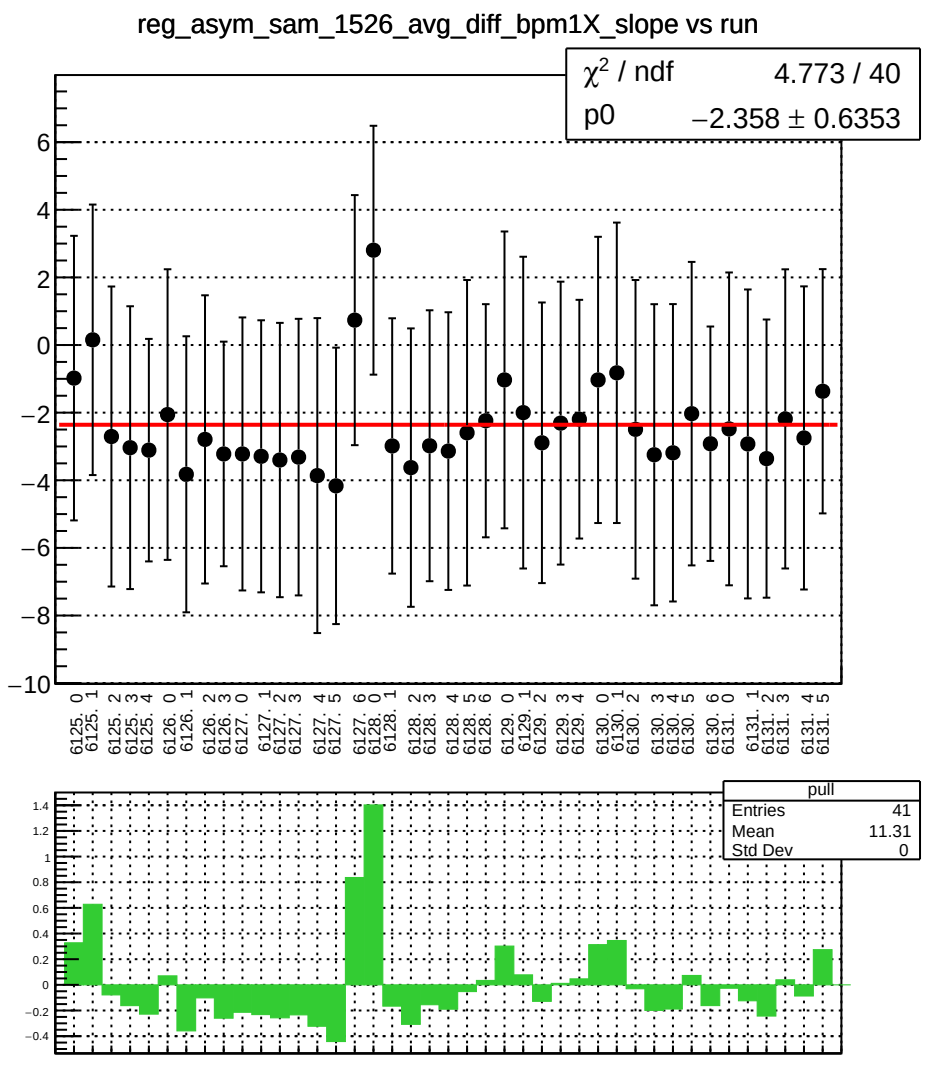

pull1D
Entries 41
Mean 0.001117
Std Dev 0.1282

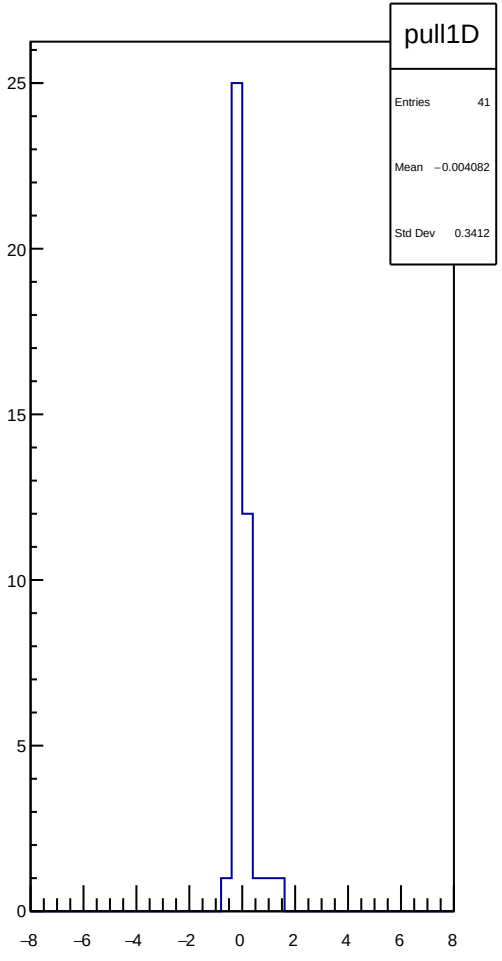

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.101 / 40
p0 74.63 ± 1.77
pull
Entries 41
Mean 11.49
Std Dev 0

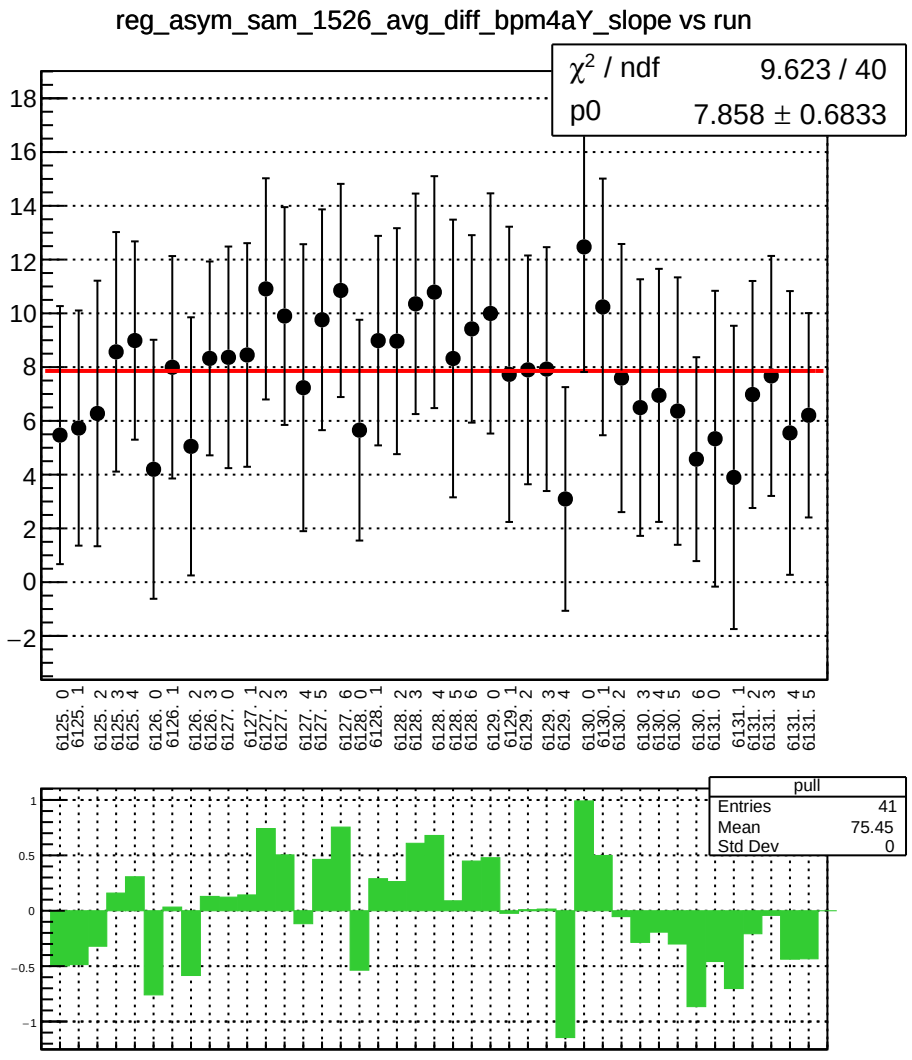

pull1D
Entries 41
Mean −0.003239
Std Dev 0.2264

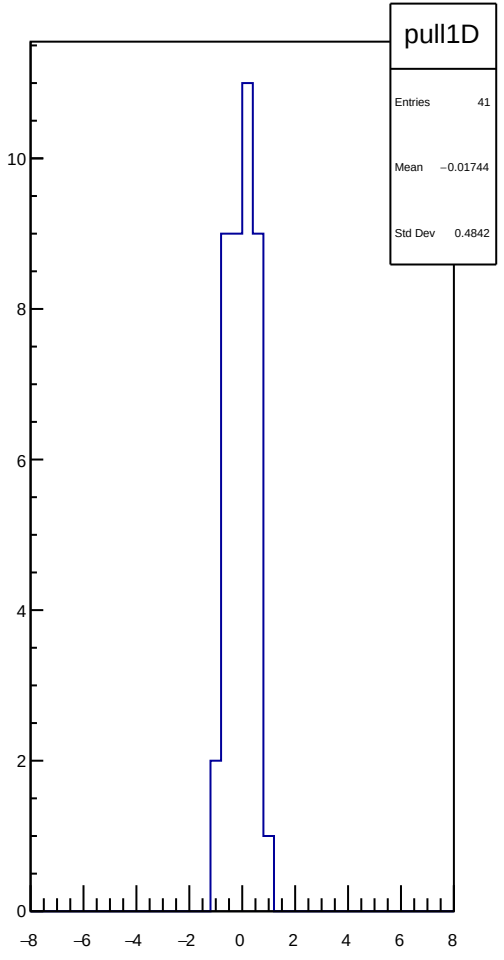

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 0.655 / 40
p0 −0.91 ± 0.1486
pull
Entries 41
Mean 200.9
Std Dev 0

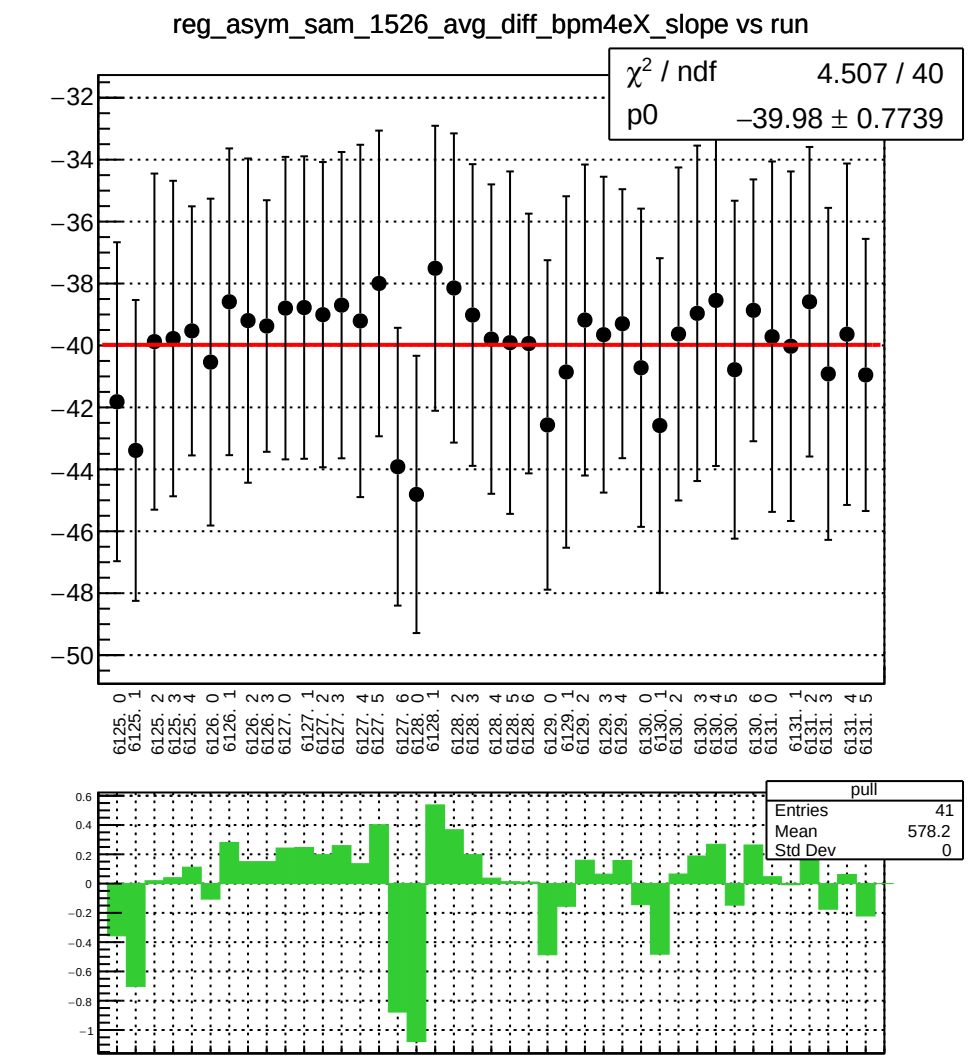

pull1D
Entries 41
Mean −0.00139
Std Dev 0.1264

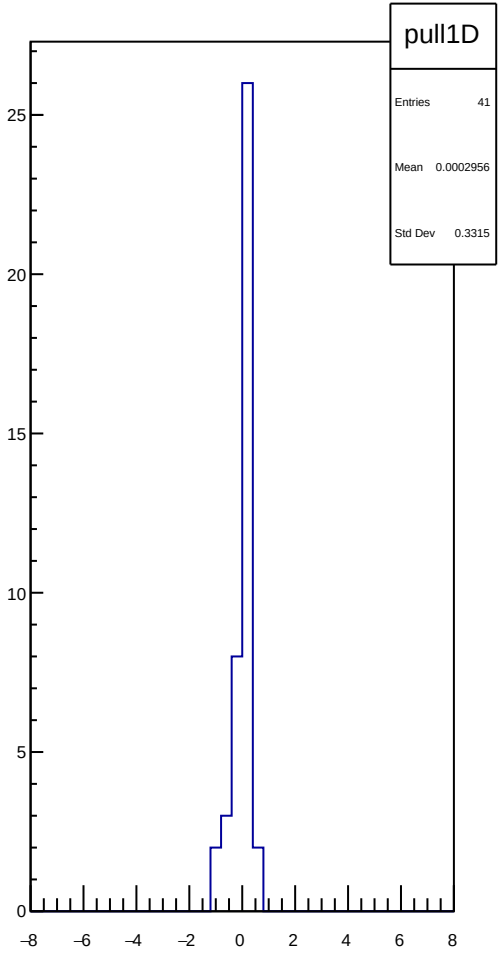

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 4.773 / 40
p0 −2.358 ± 0.6353
pull
Entries 41
Mean 11.31
Std Dev 0

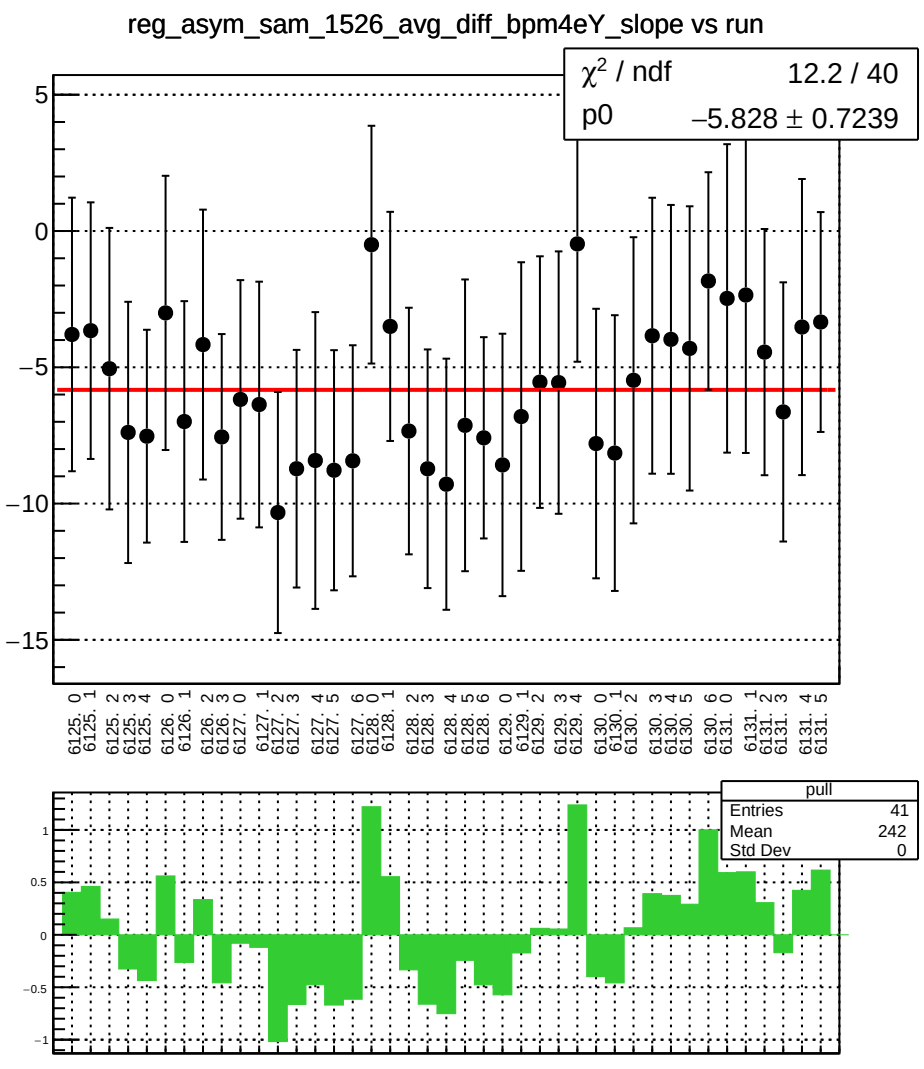

pull1D
Entries 41
Mean −0.004082
Std Dev 0.3412

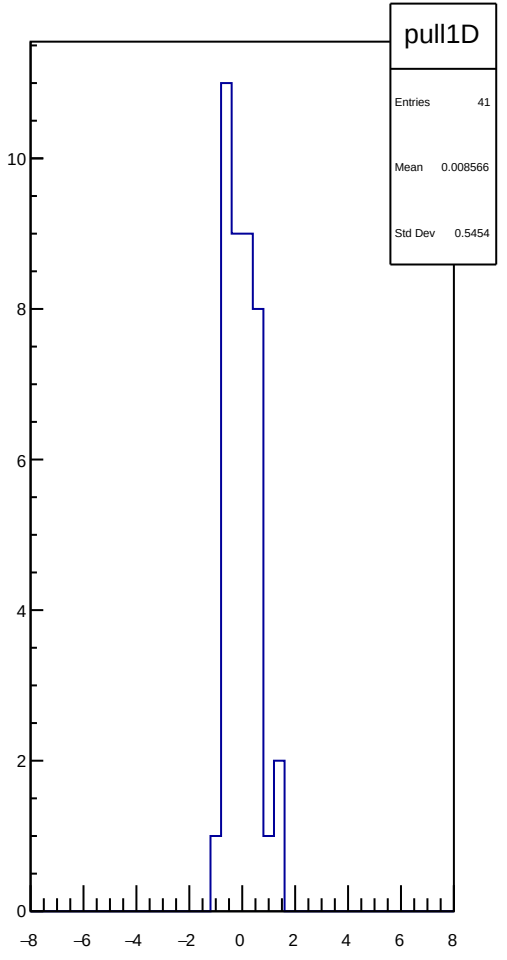

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.623 / 40
p0 7.858 ± 0.6833
pull
Entries 41
Mean 75.45
Std Dev 0

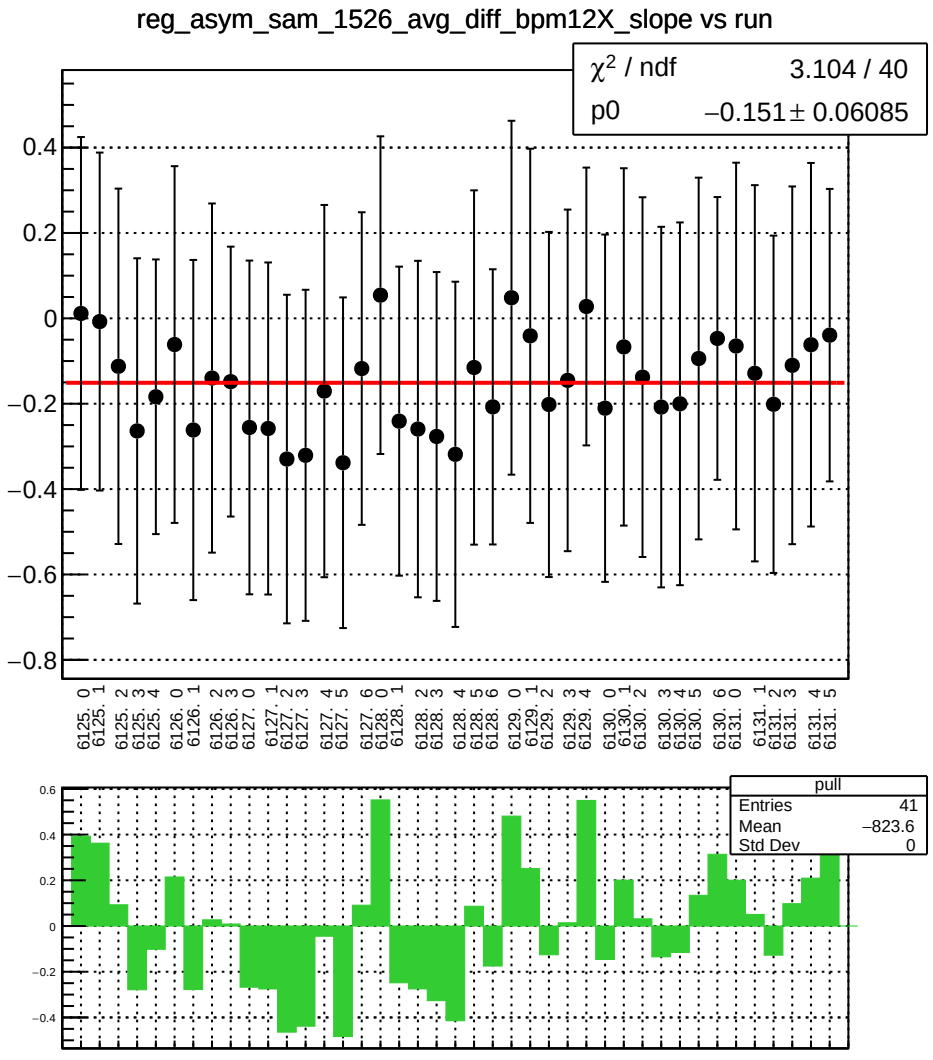

pull1D
Entries 41
Mean −0.01744
Std Dev 0.4842

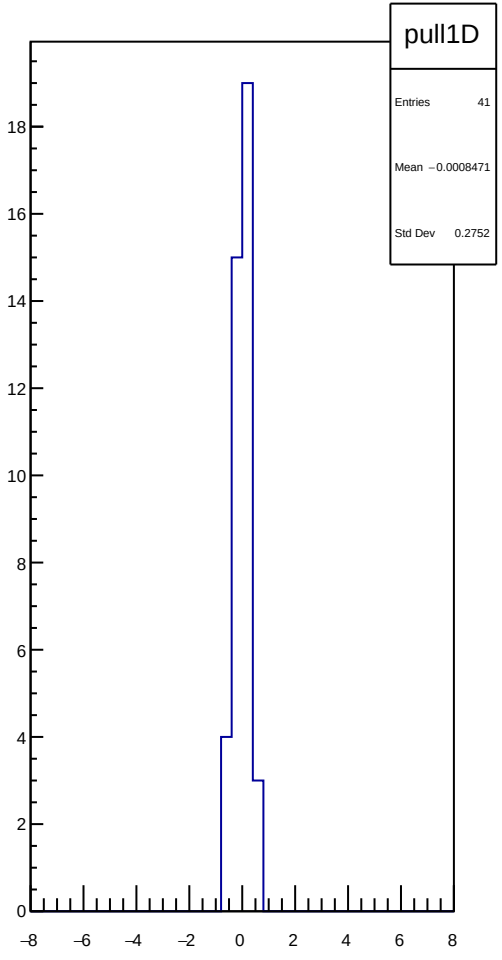

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.507 / 40
p0 −39.98 ± 0.7739
pull
Entries 41
Mean 578.2
Std Dev 0

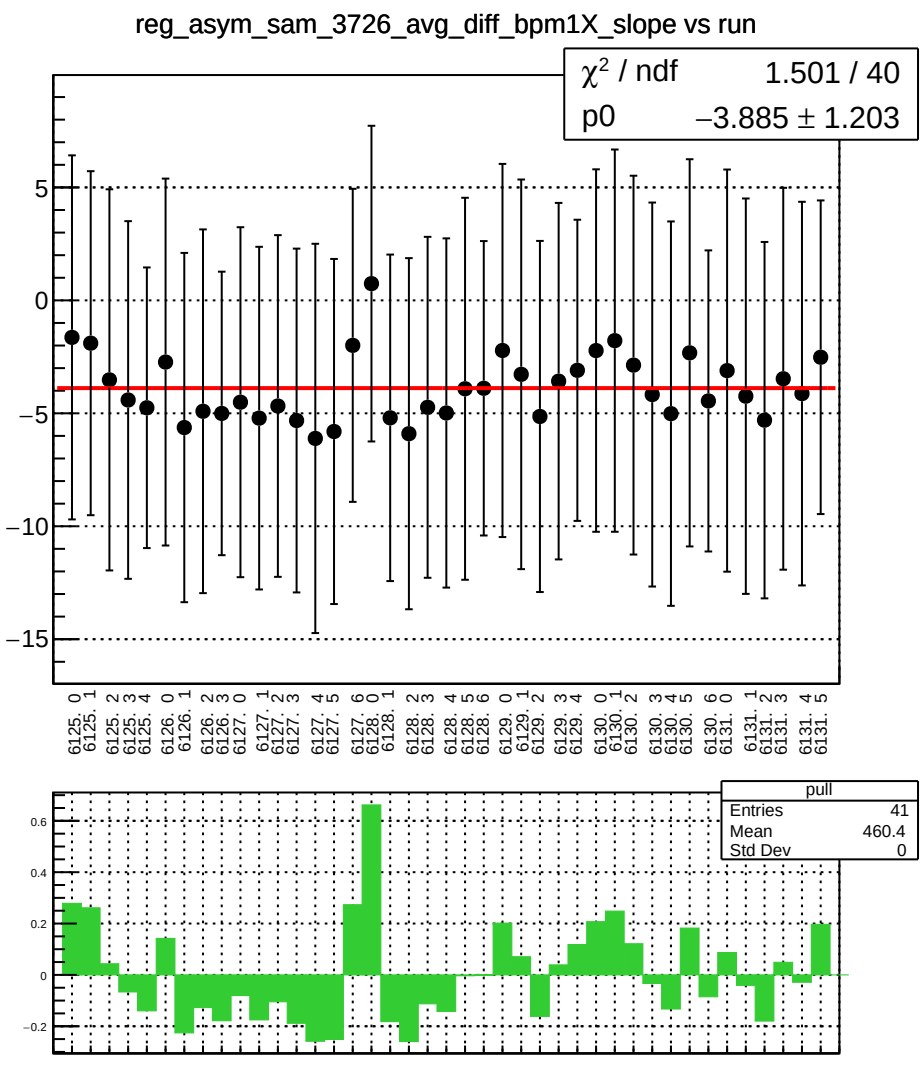

pull1D
Entries 41
Mean 0.0002956
Std Dev 0.3315

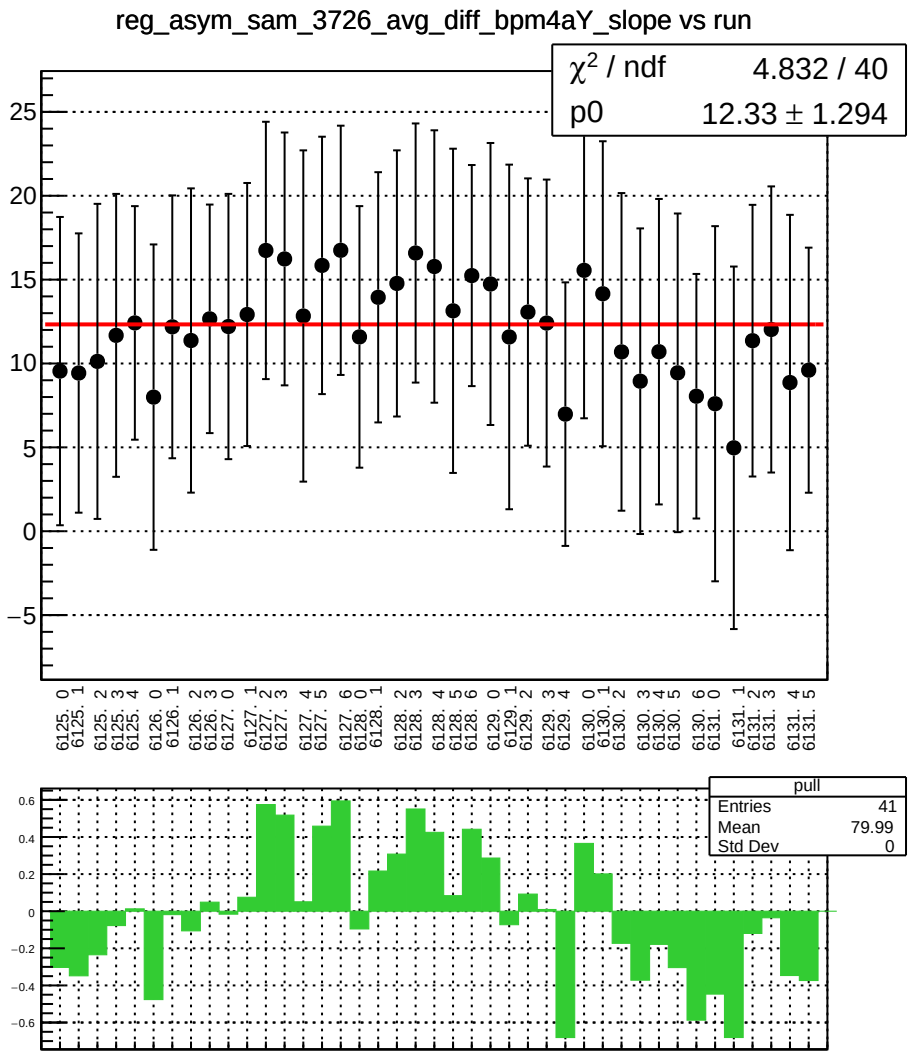

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.2 / 40
p0 −5.828 ± 0.7239
5
0
−5
−10
−15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 242
Std Dev 0
1
0.5
0
−0.5
−1

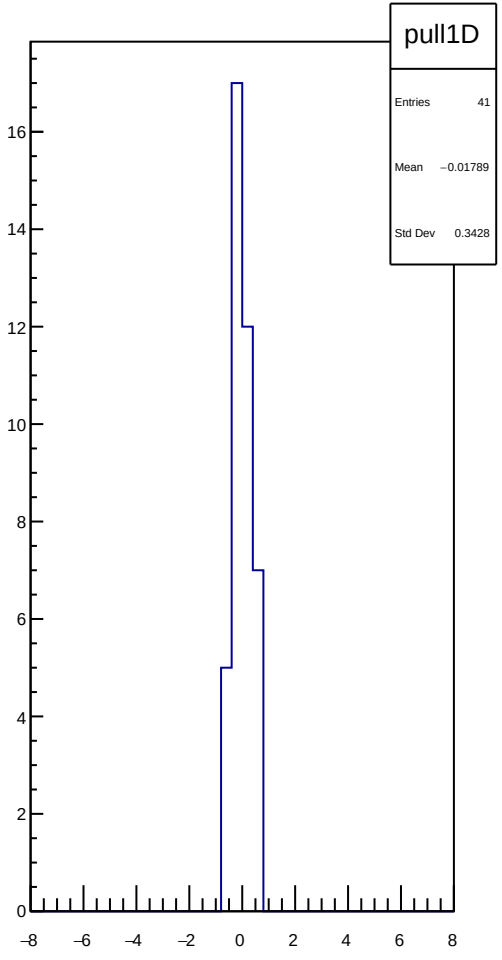

pull1D
Entries 41
Mean 0.008566
Std Dev 0.5454
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

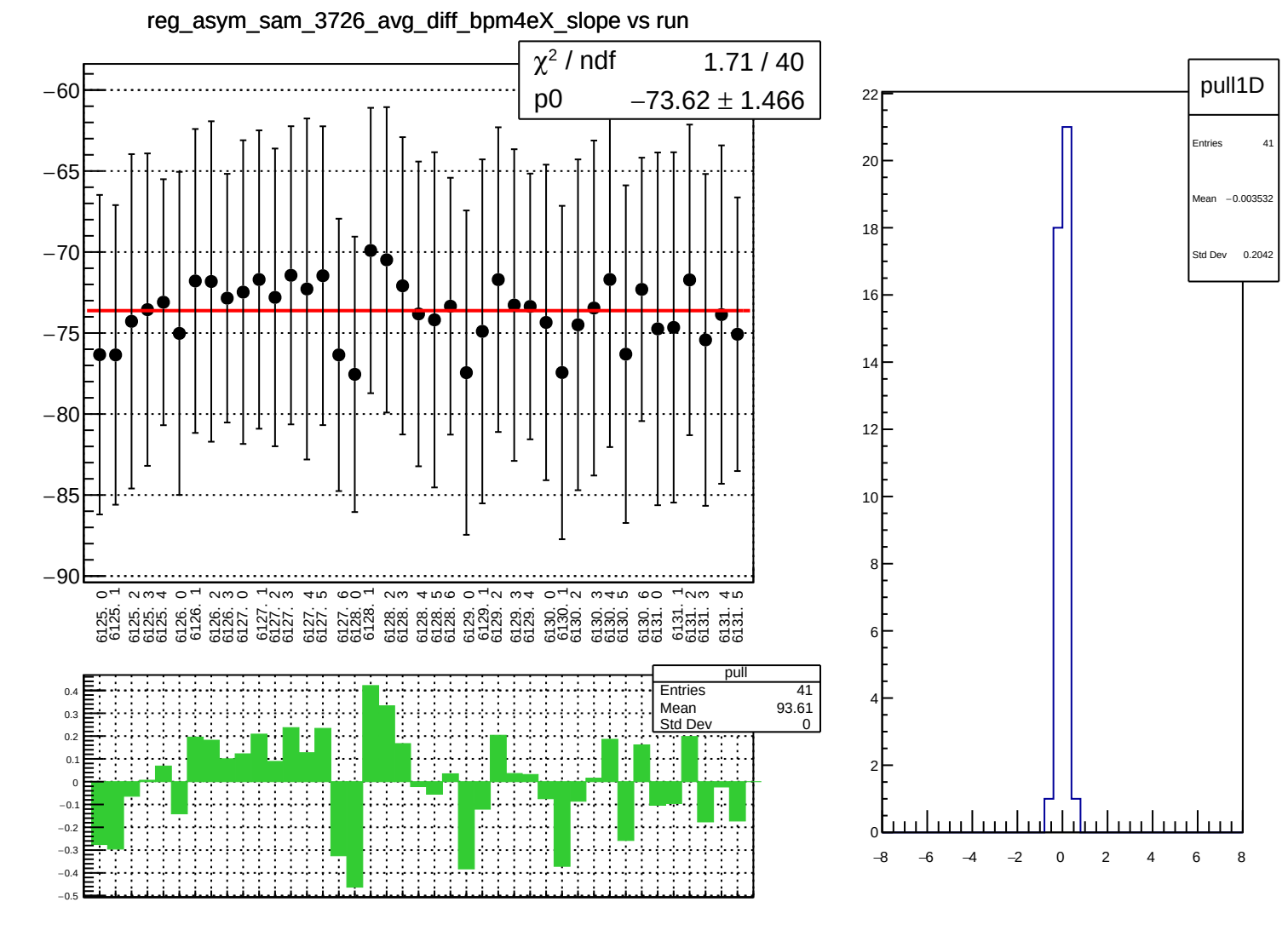

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 3.104 / 40
p0 −0.151 ± 0.06085
pull
Entries 41
Mean −823.6
Std Dev 0

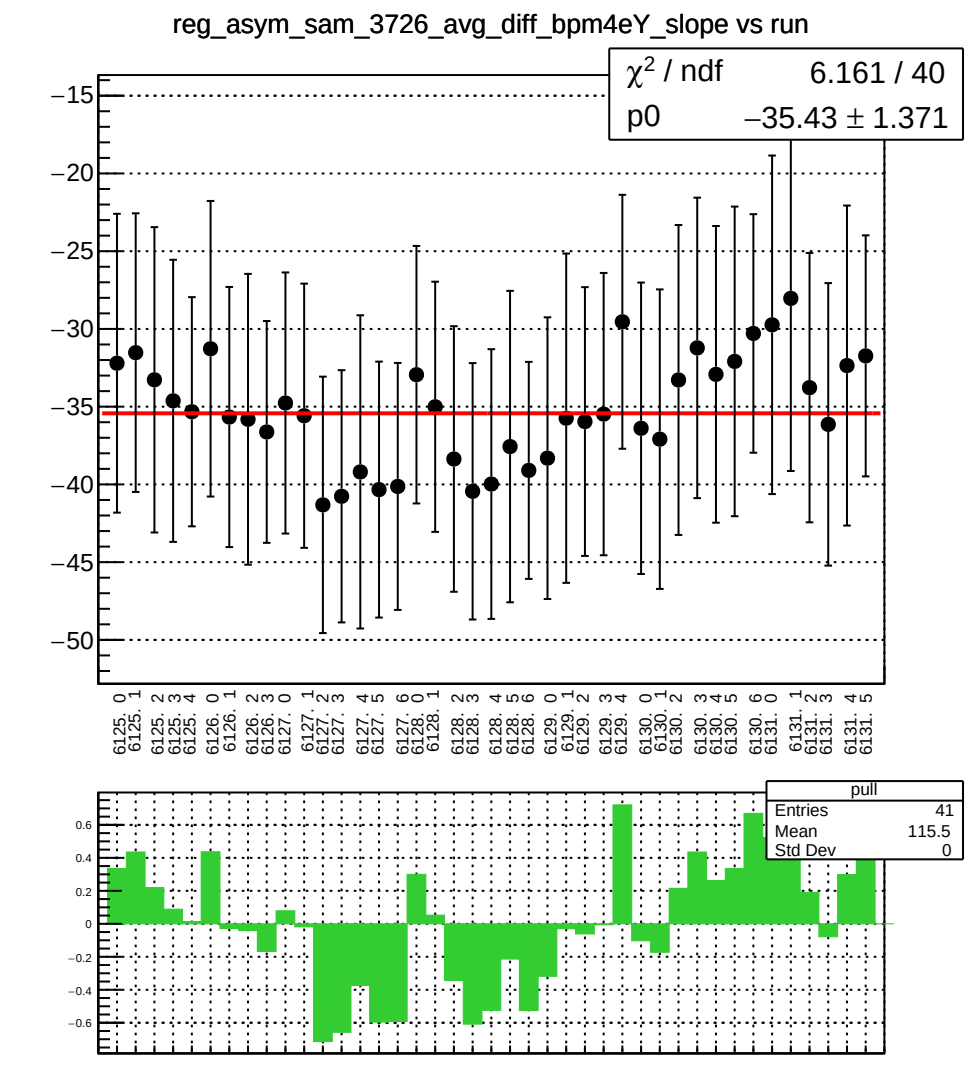

pull1D
Entries 41
Mean −0.0008471
Std Dev 0.2752

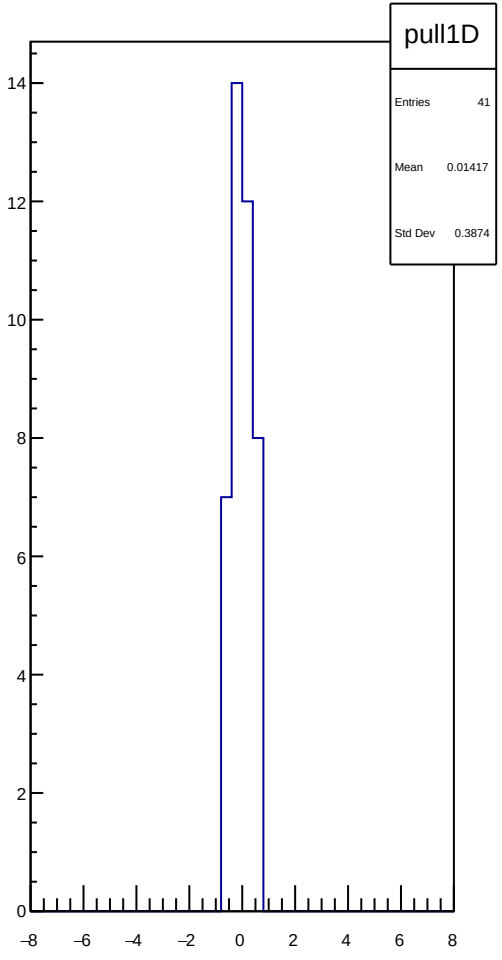

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 1.501 / 40
p0 −3.885 ± 1.203
5
0
−5
−10
−15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 460.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
pull1D
Entries 41
Mean 0.0005423
Std Dev 0.1913
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

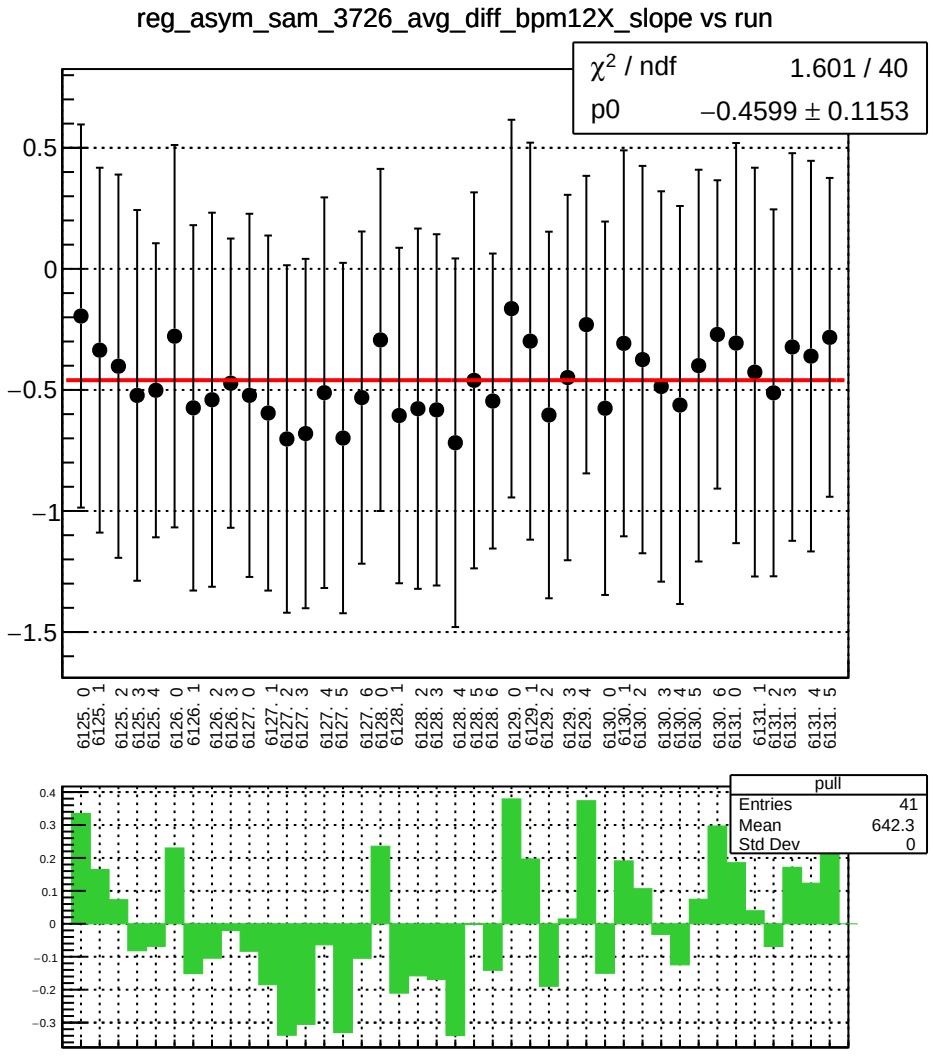

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.832 / 40
p0 12.33 ± 1.294
pull
Entries 41
Mean 79.99
Std Dev 0

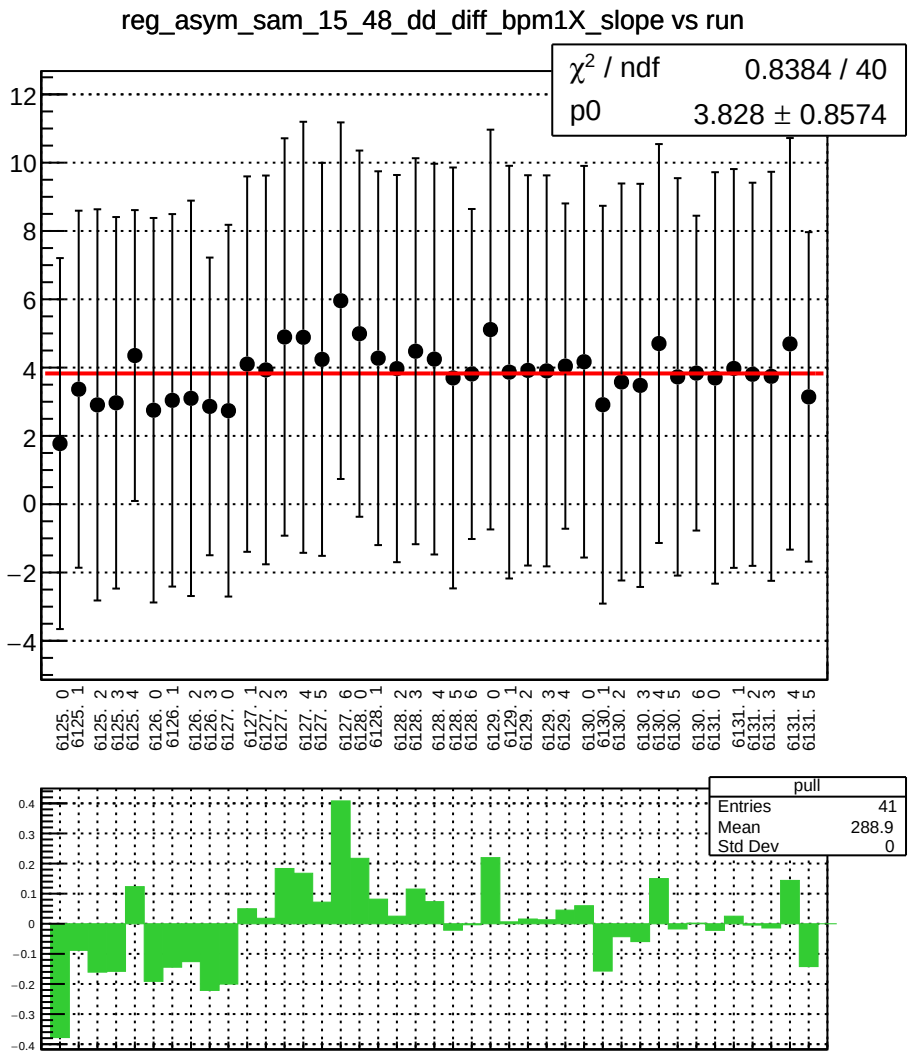

pull1D
Entries 41
Mean −0.01789
Std Dev 0.3428

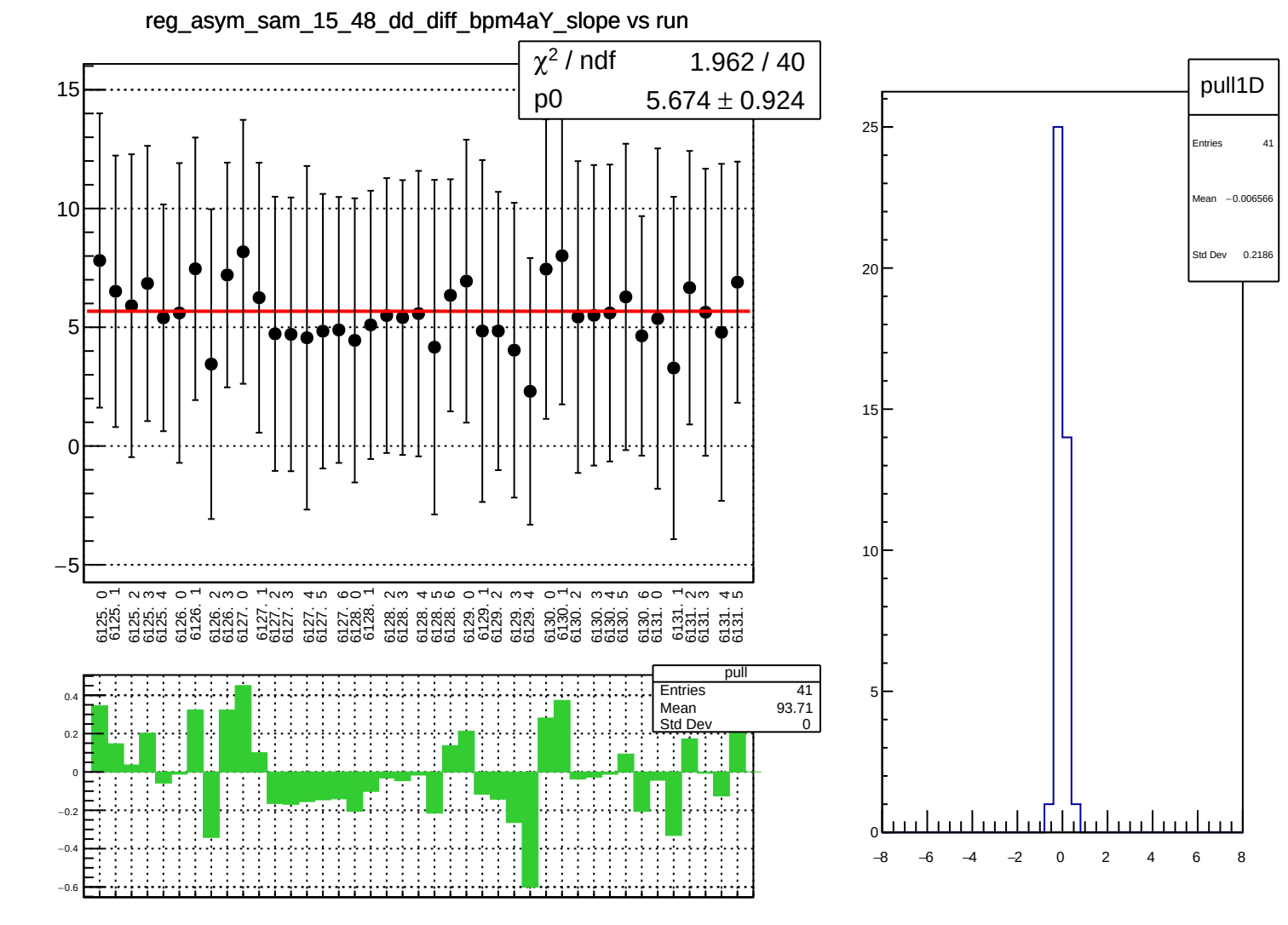

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.71 / 40
p0 −73.62 ± 1.466
pull
Entries 41
Mean 93.61
Std Dev 0
pull1D
Entries 41
Mean −0.003532
Std Dev 0.2042

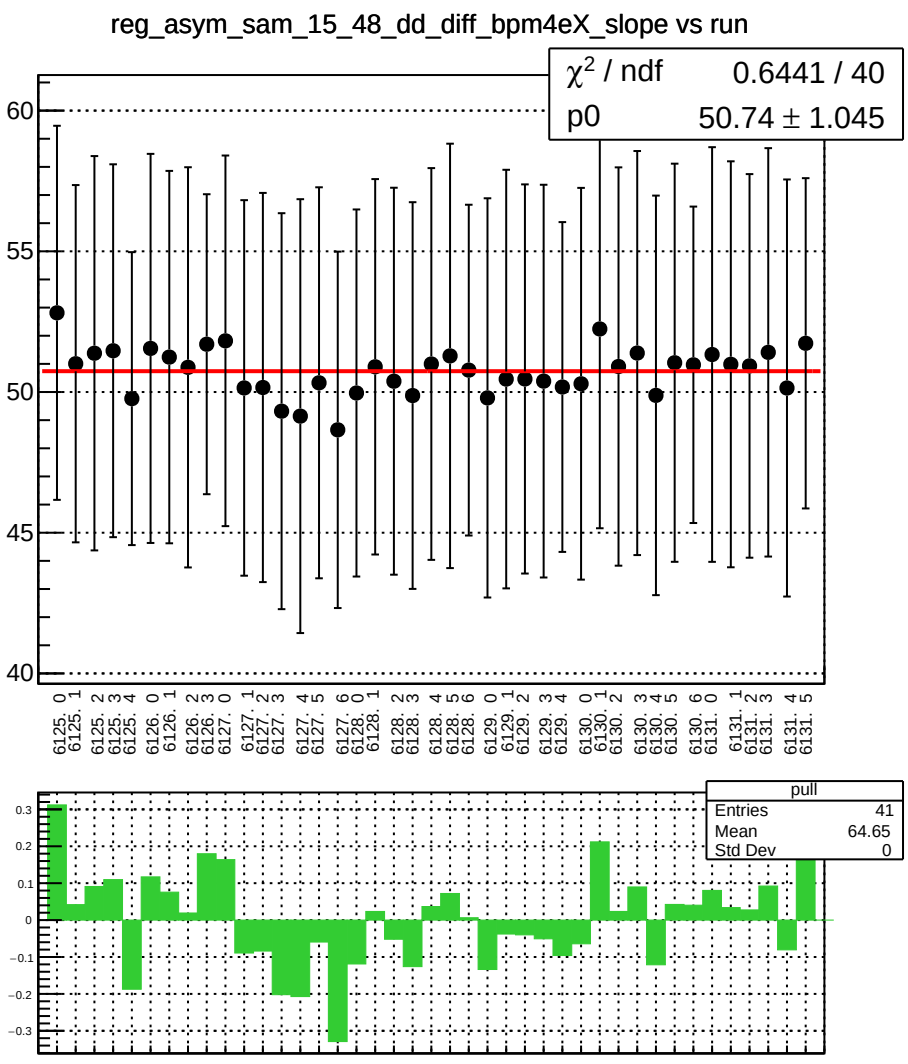

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.161 / 40
p0 −35.43 ± 1.371
−15
−20
−25
−30
−35
−40
−45
−50
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 115.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

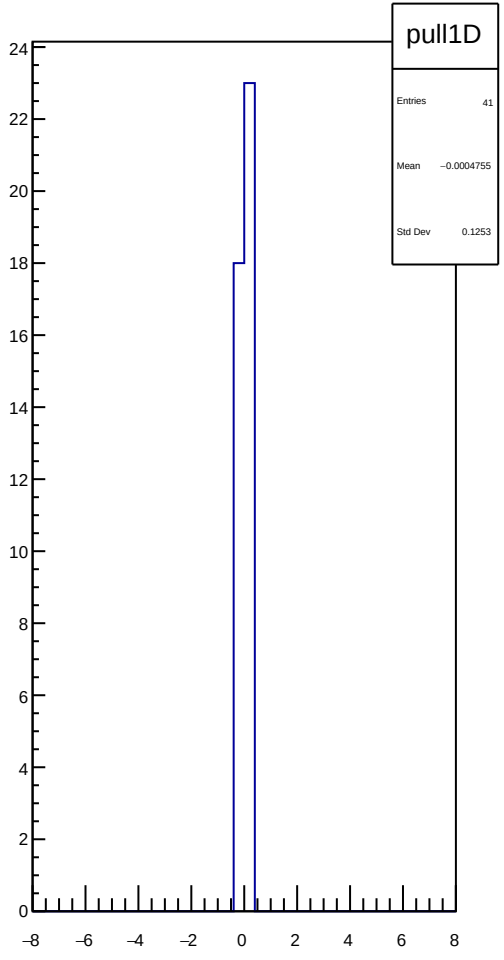

pull1D
Entries 41
Mean 0.01417
Std Dev 0.3874
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

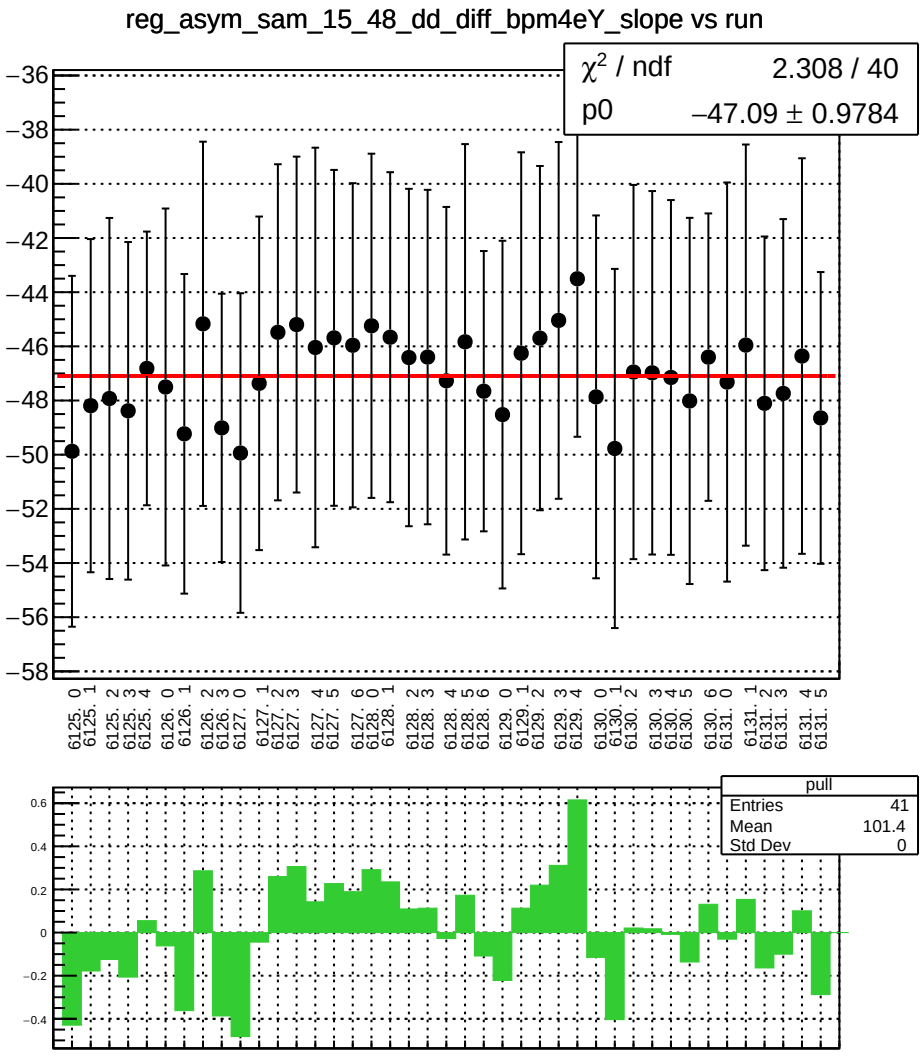

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 1.601 / 40
p0 −0.4599 ± 0.1153
0.5
0
−0.5
−1
−1.5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 642.3
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 41
Mean 0.0009531
Std Dev 0.1976
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

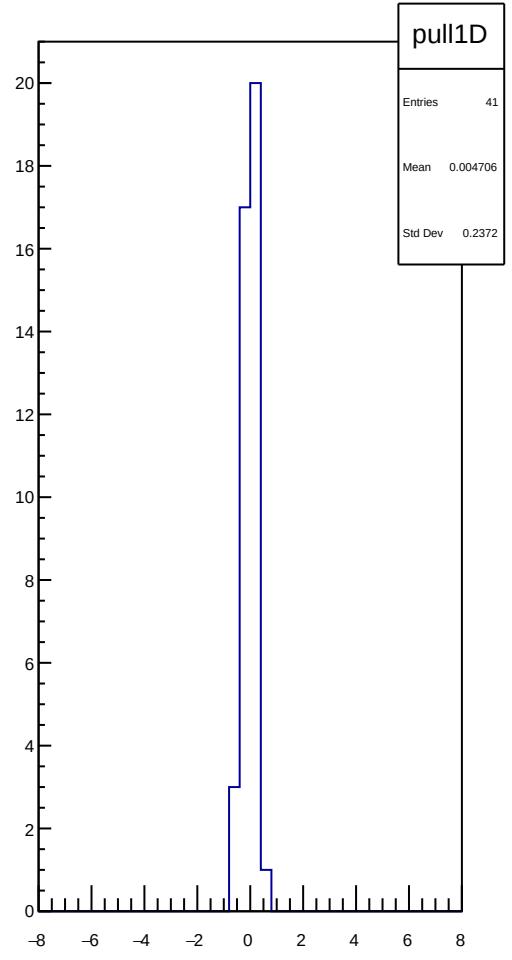

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 0.8384 / 40
p0 3.828 ± 0.8574
pull
Entries 41
Mean 288.9
Std Dev 0
pull1D
Entries 41
Mean 0.001593
Std Dev 0.143

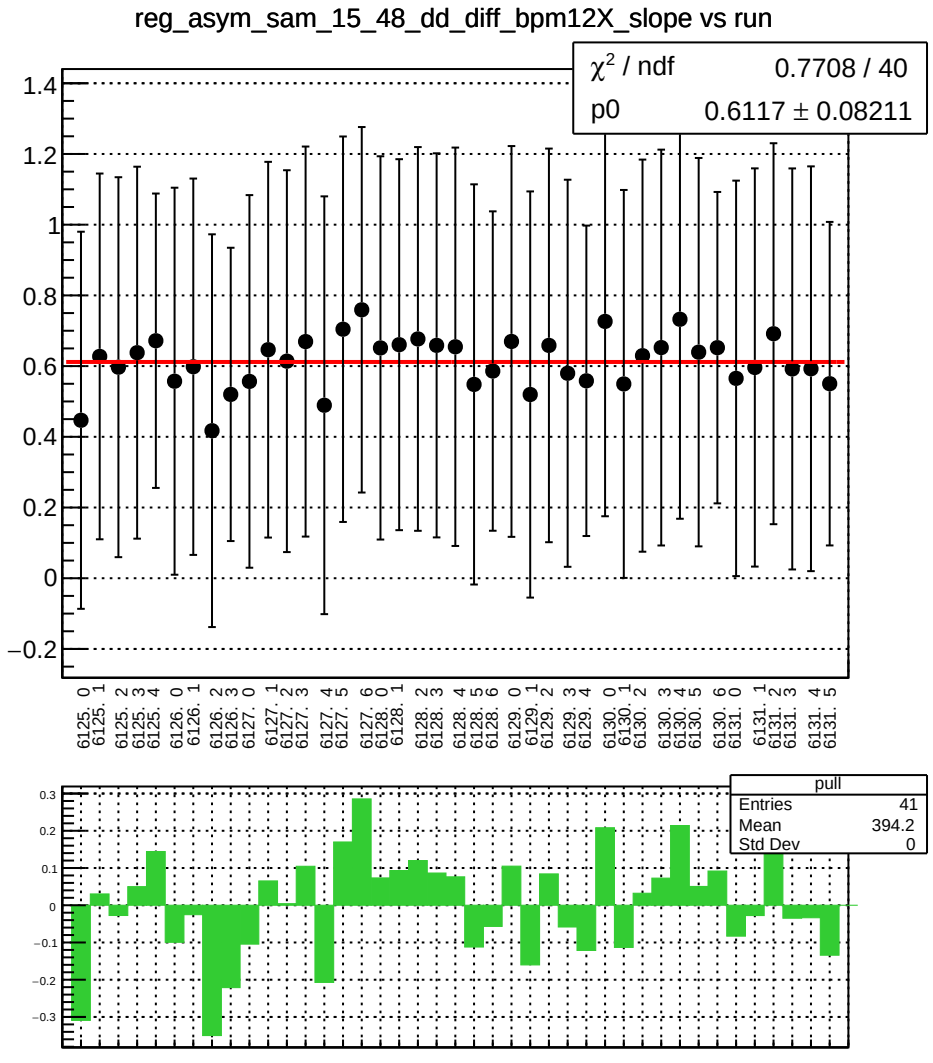

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.962 / 40
p0 5.674 ± 0.924
pull
Entries 41
Mean 93.71
Std Dev 0
pull1D
Entries 41
Mean −0.006566
Std Dev 0.2186

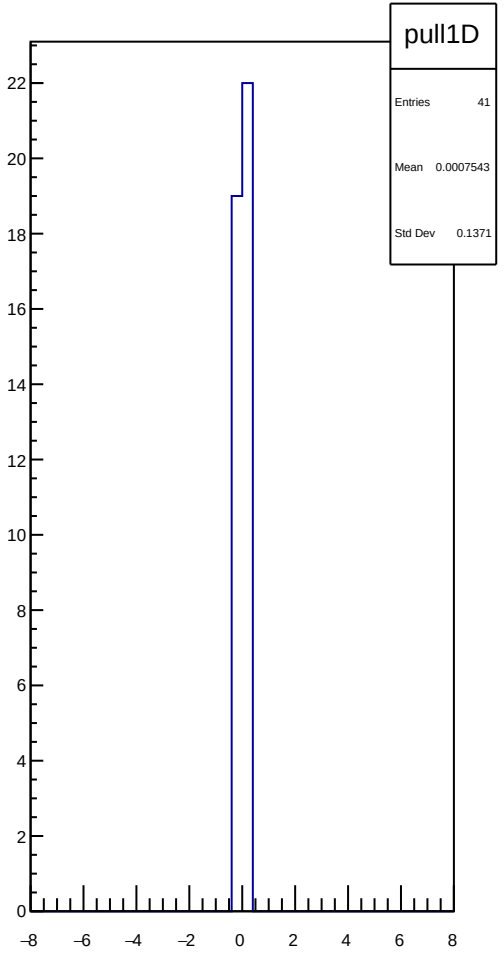

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.6441 / 40
p0 50.74 ± 1.045
60
55
50
45
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 64.65
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

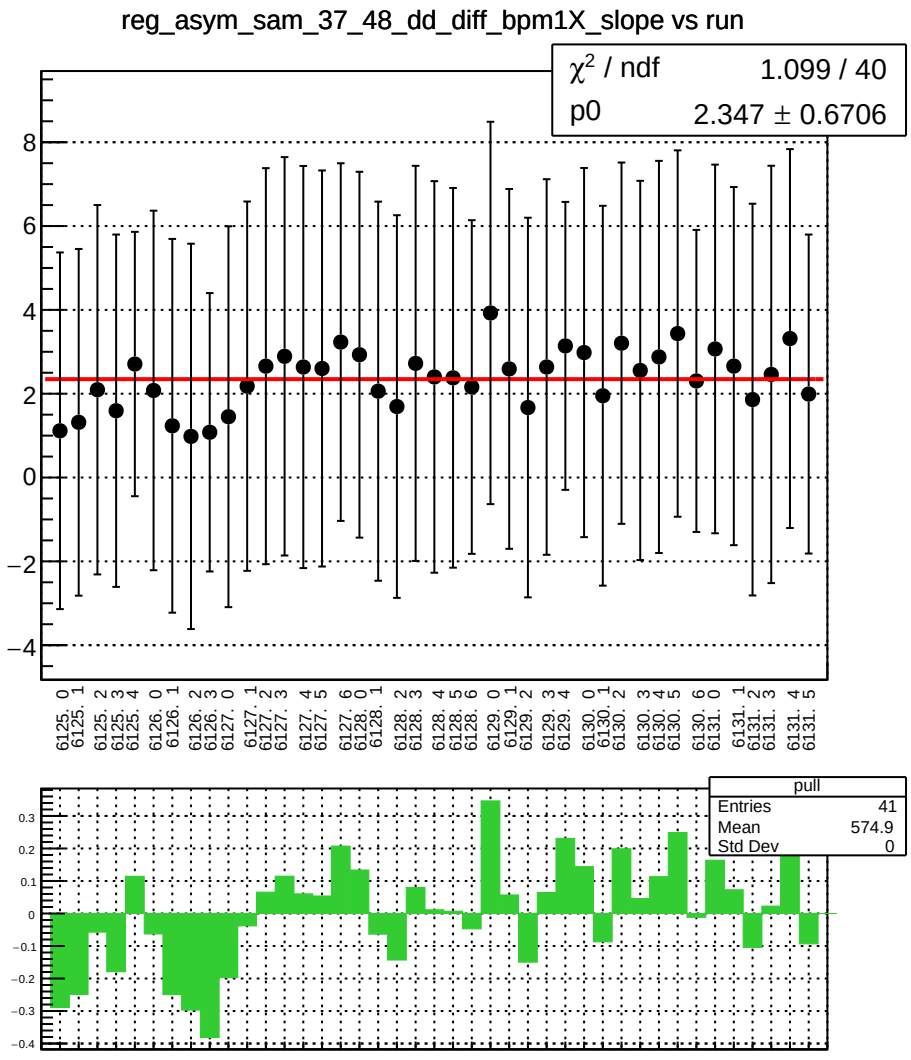

pull1D
Entries 41
Mean −0.0004755
Std Dev 0.1253
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

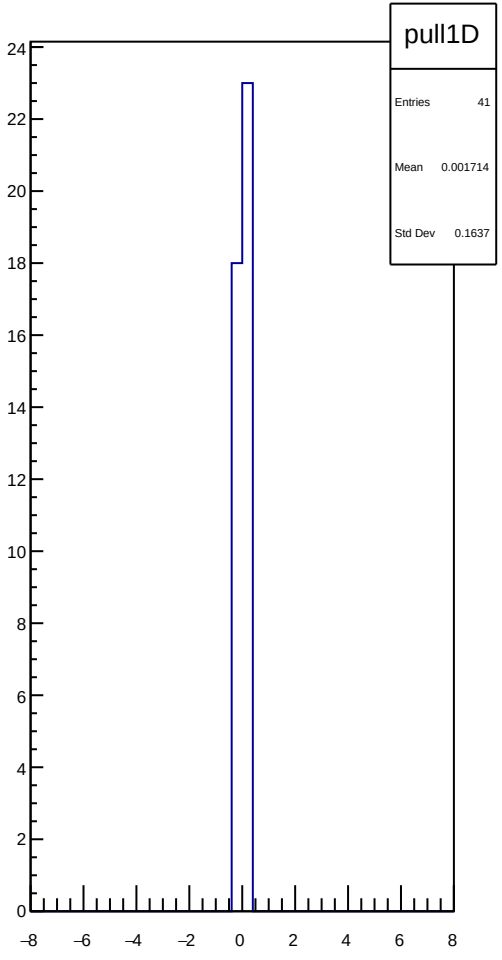

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.308 / 40
p0 −47.09 ± 0.9784
pull
Entries 41
Mean 101.4
Std Dev 0

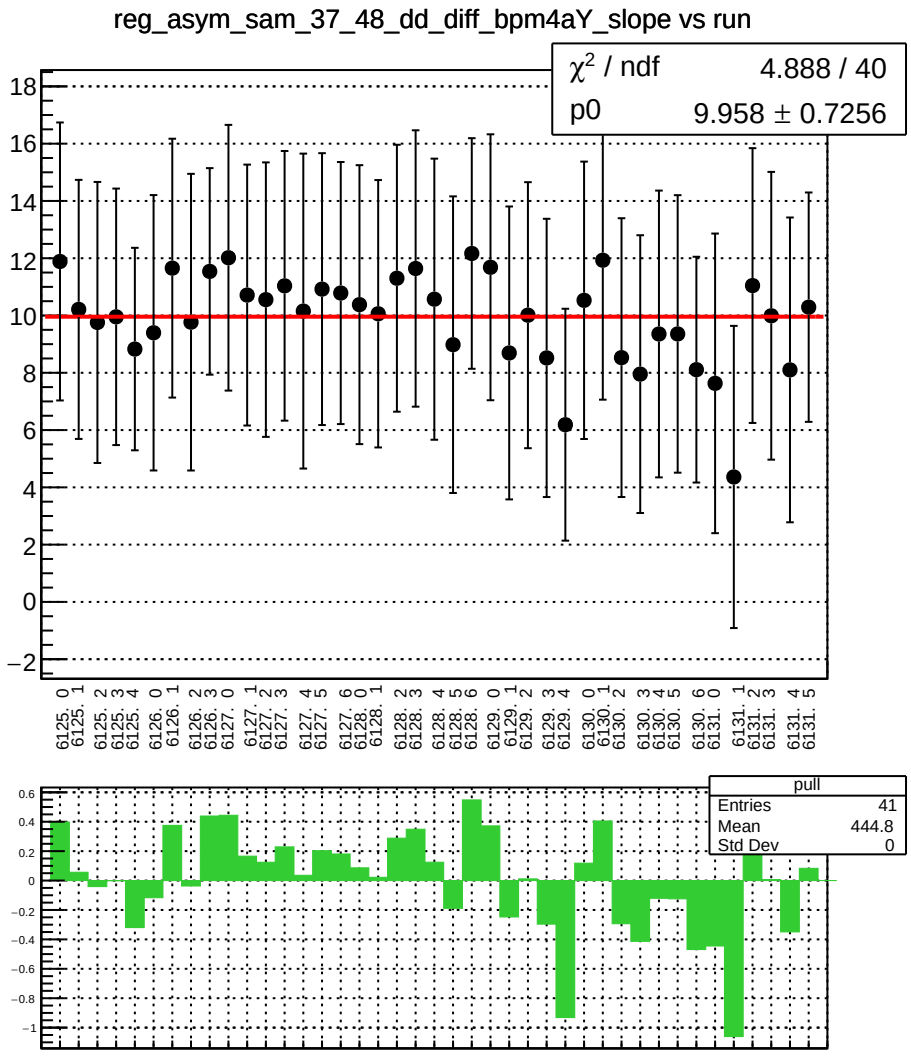

pull1D
Entries 41
Mean 0.004706
Std Dev 0.2372

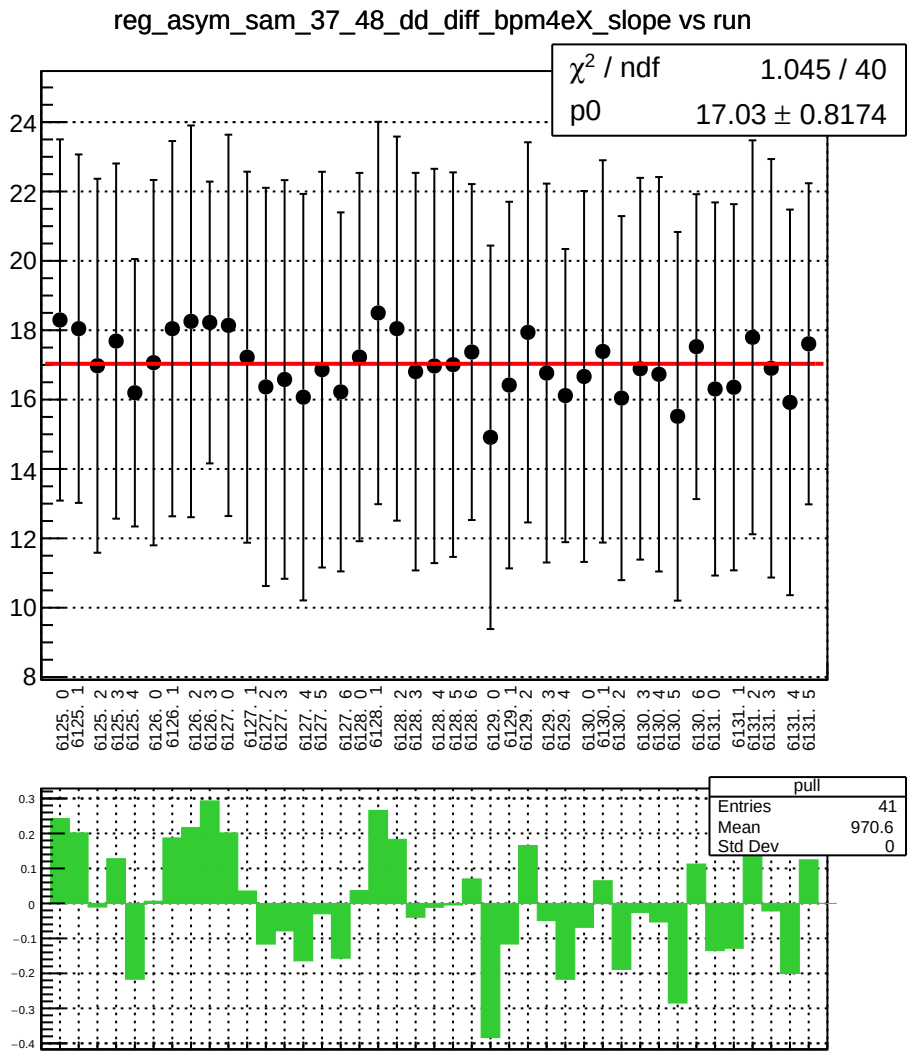

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.7708 / 40
p0 0.6117 ± 0.08211
pull
Entries 41
Mean 394.2
Std Dev 0

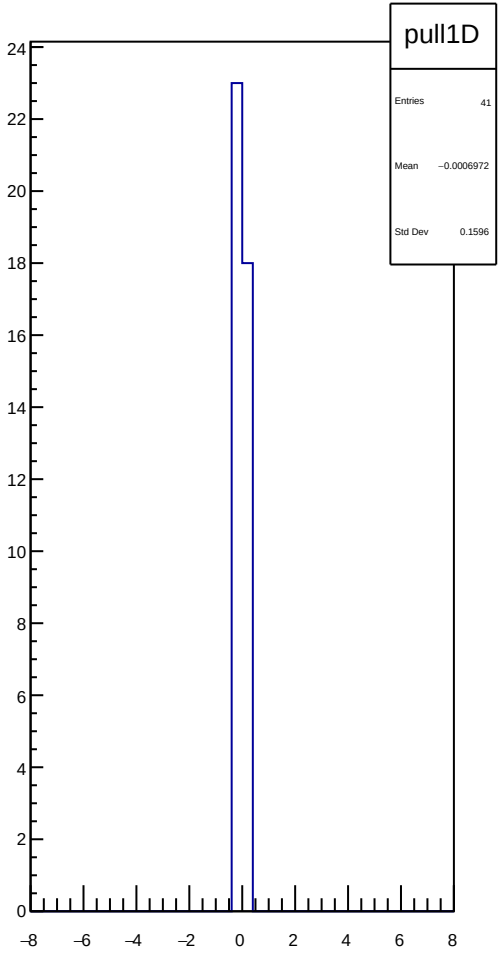

pull1D
Entries 41
Mean 0.0007543
Std Dev 0.1371

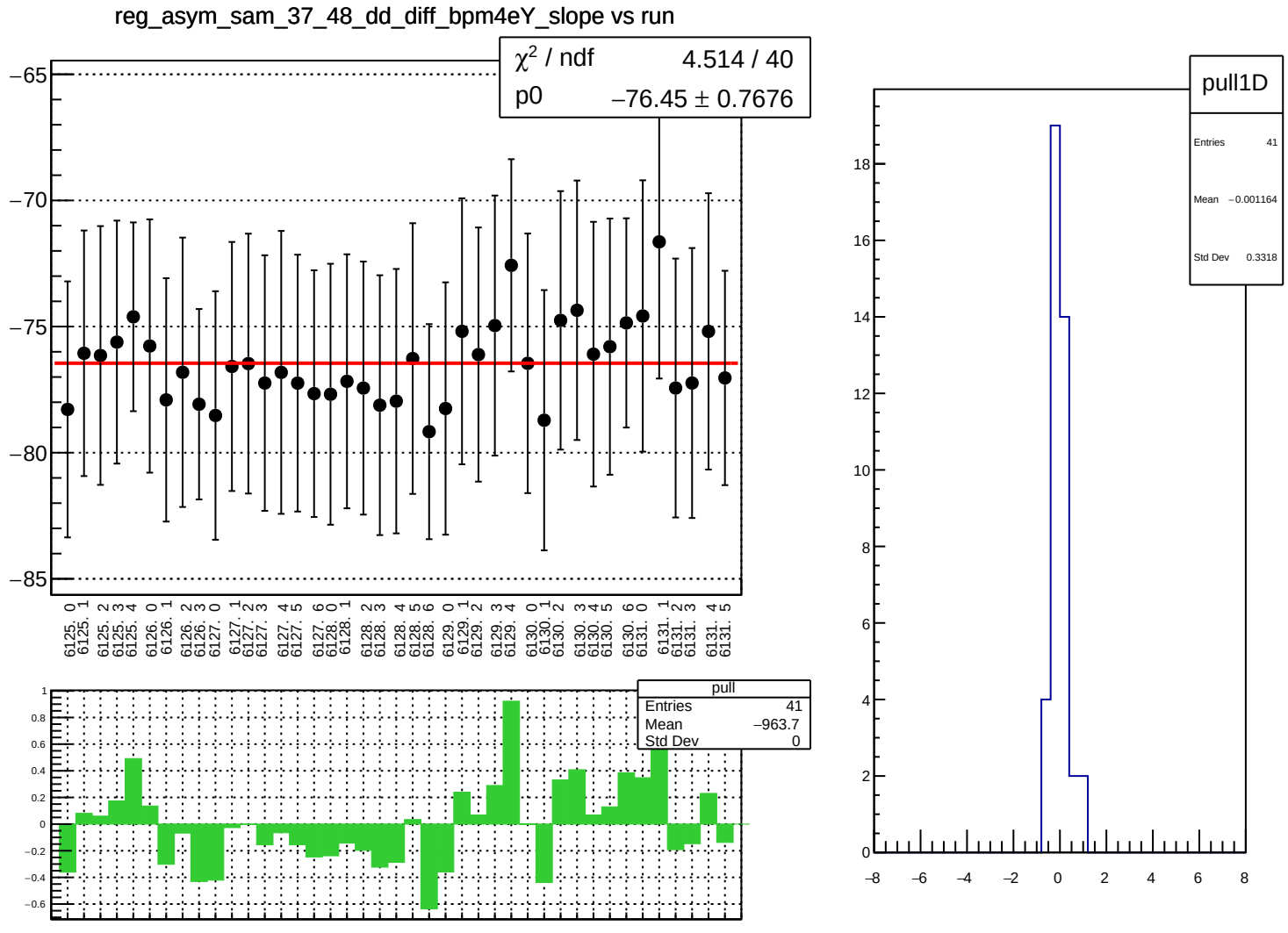

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1.099 / 40
p0 2.347 ± 0.6706
pull
Entries 41
Mean 574.9
Std Dev 0

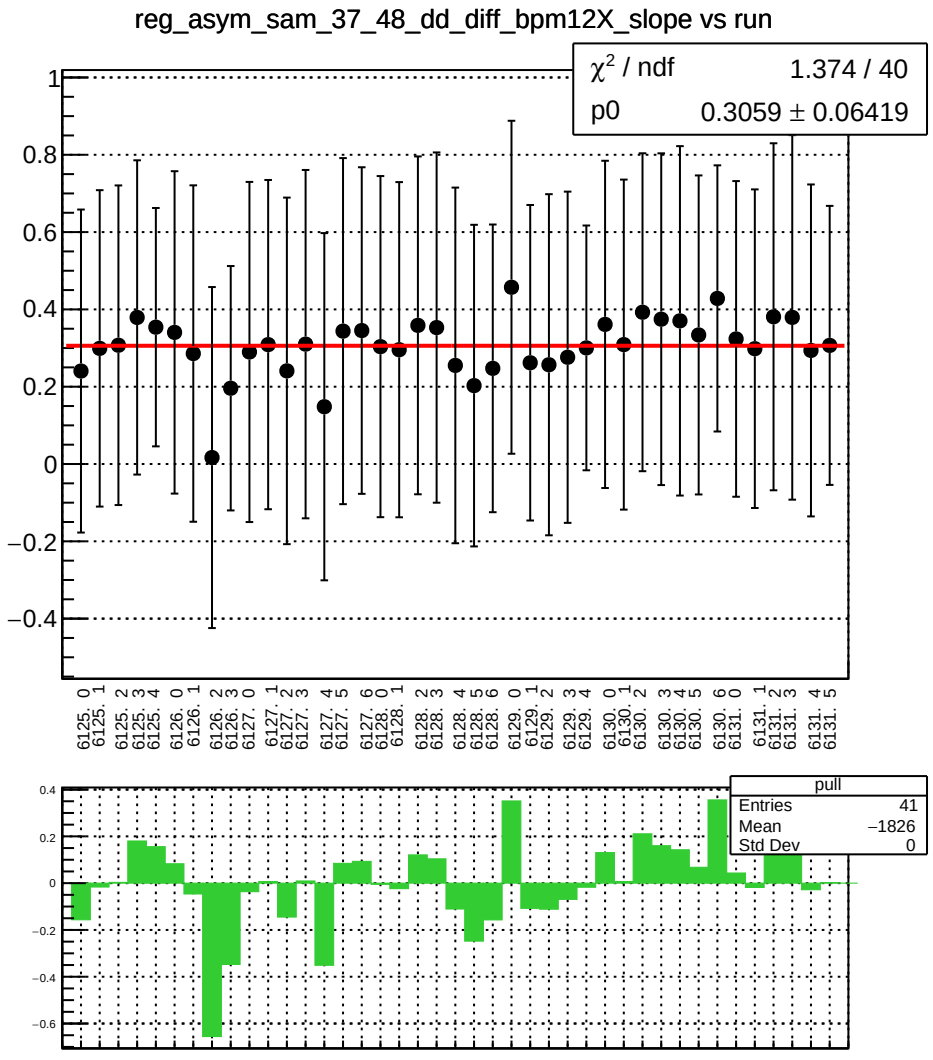

pull1D
Entries 41
Mean 0.001714
Std Dev 0.1637

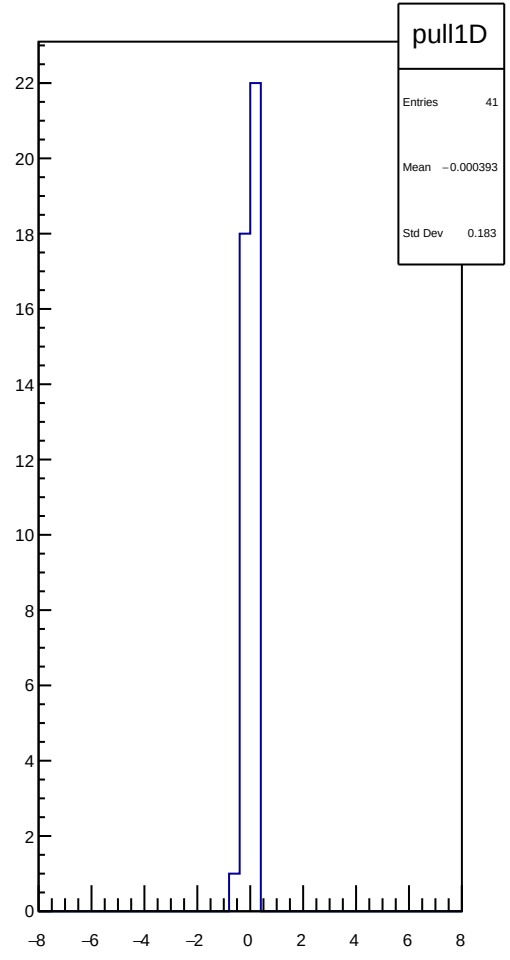

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.888 / 40
p0 9.958 ± 0.7256
pull
Entries 41
Mean 444.8
Std Dev 0
pull1D
Entries 41
Mean −0.003967
Std Dev 0.3453

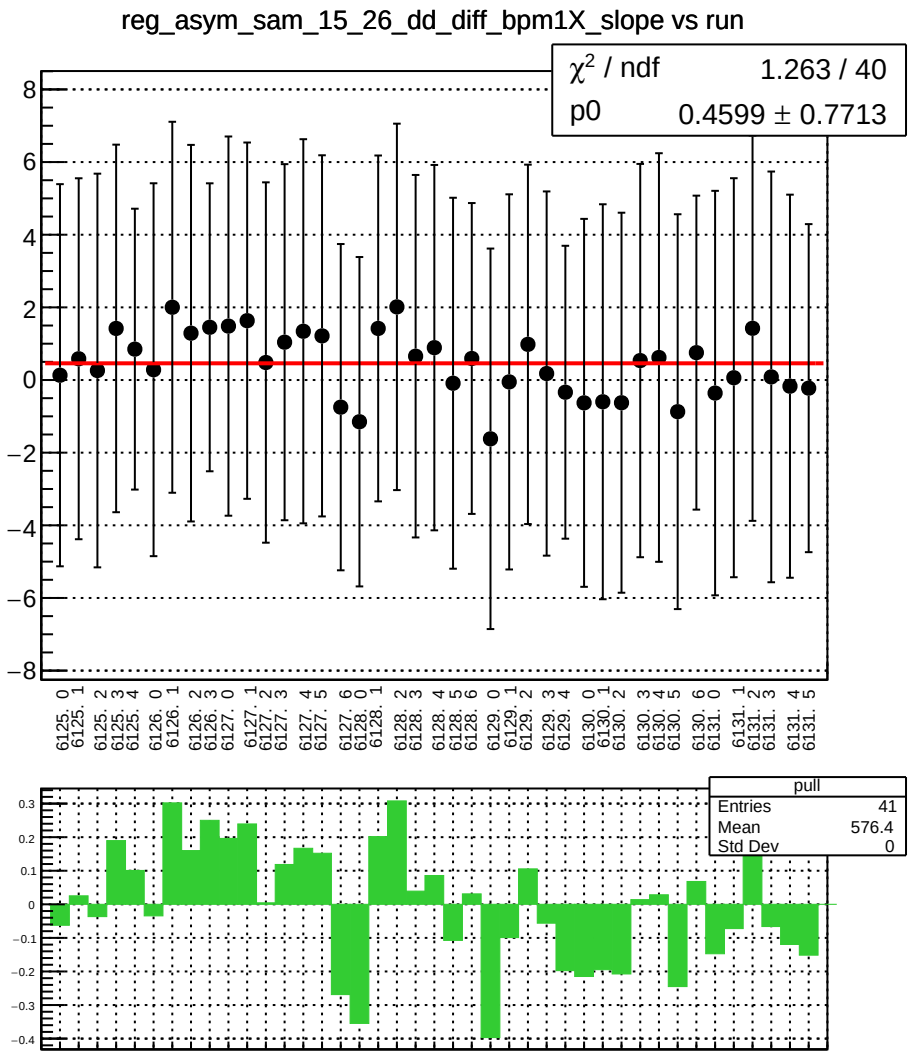

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.045 / 40
p0 17.03 ± 0.8174
pull
Entries 41
Mean 970.6
Std Dev 0

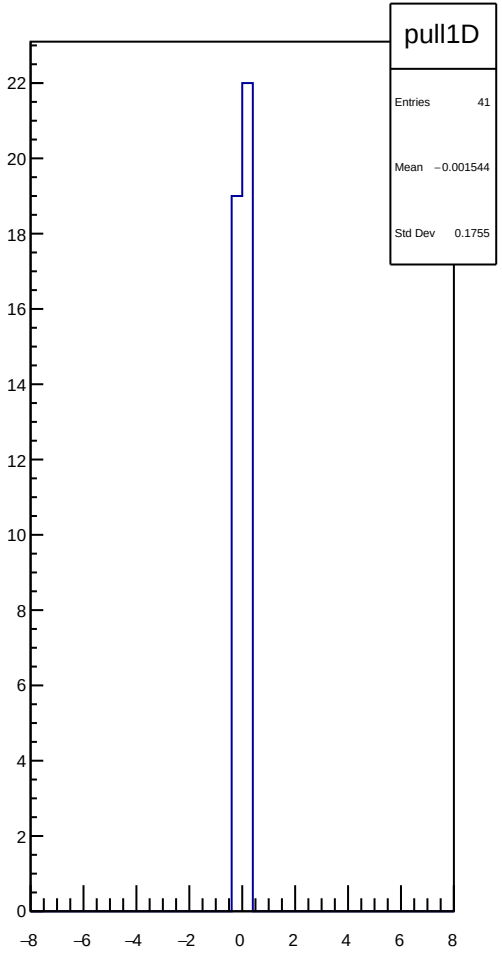

pull1D
Entries 41
Mean −0.0006972
Std Dev 0.1596

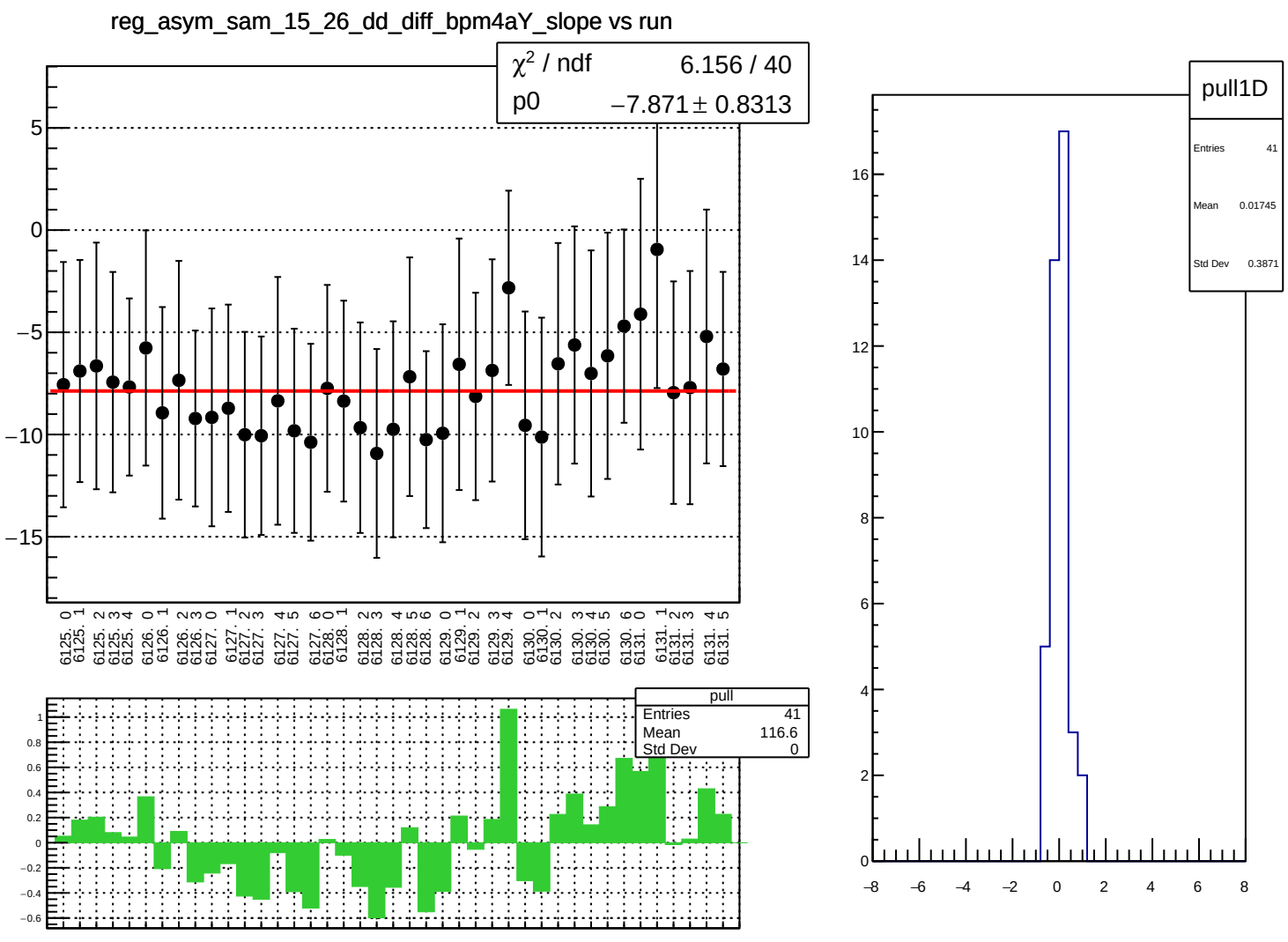

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.514 / 40
p0 −76.45 ± 0.7676
−65
−70
−75
−80
−85
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −963.7
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean −0.001164
Std Dev 0.3318
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

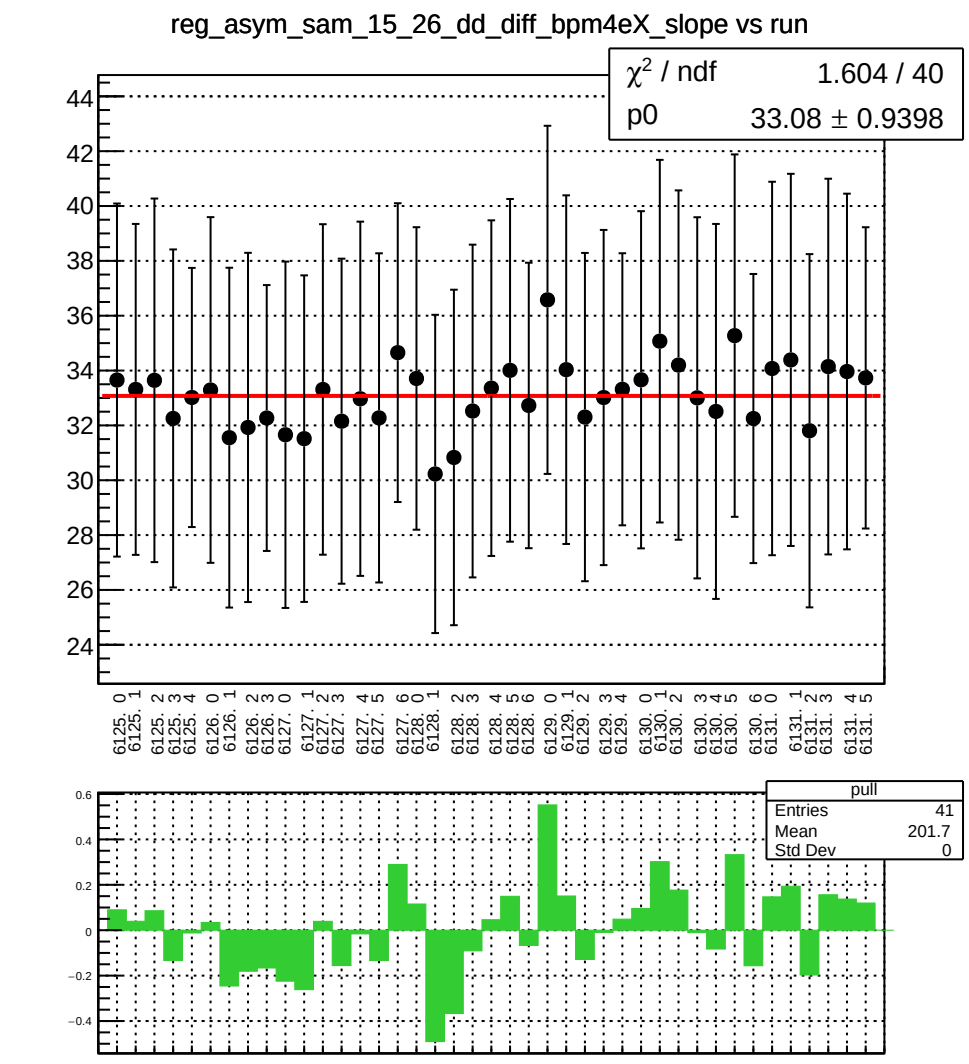

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1.374 / 40
p0 0.3059 ± 0.06419
pull
Entries 41
Mean −1826
Std Dev 0

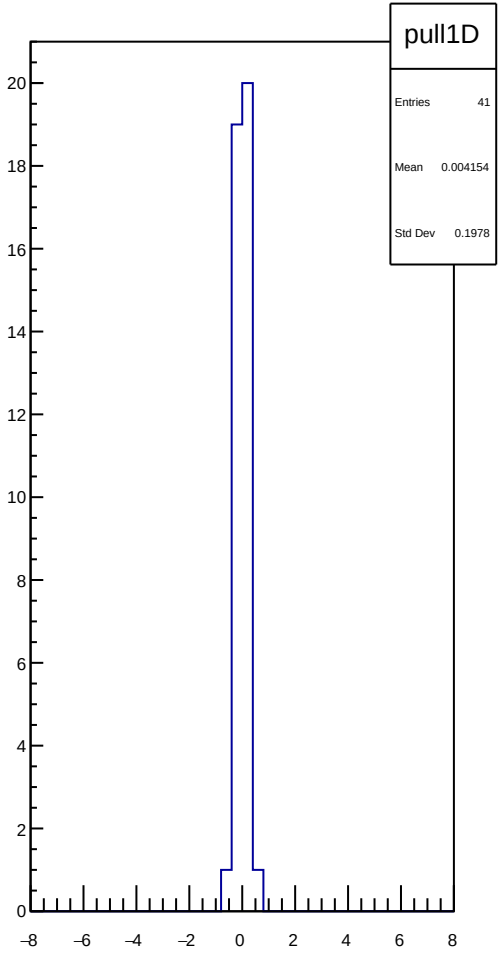

pull1D
Entries 41
Mean −0.000393
Std Dev 0.183

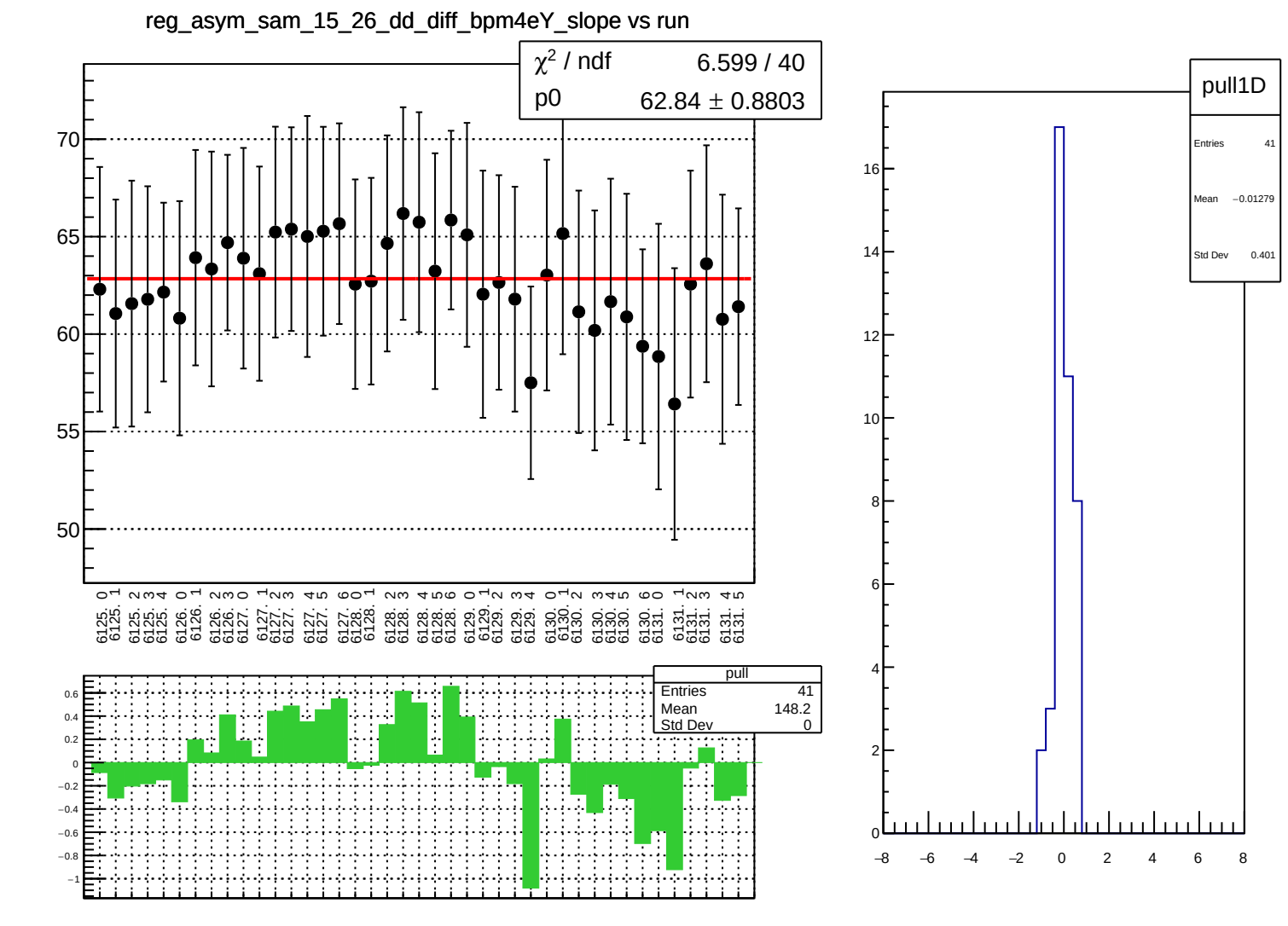

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1.263 / 40
p0 0.4599 ± 0.7713
pull
Entries 41
Mean 576.4
Std Dev 0

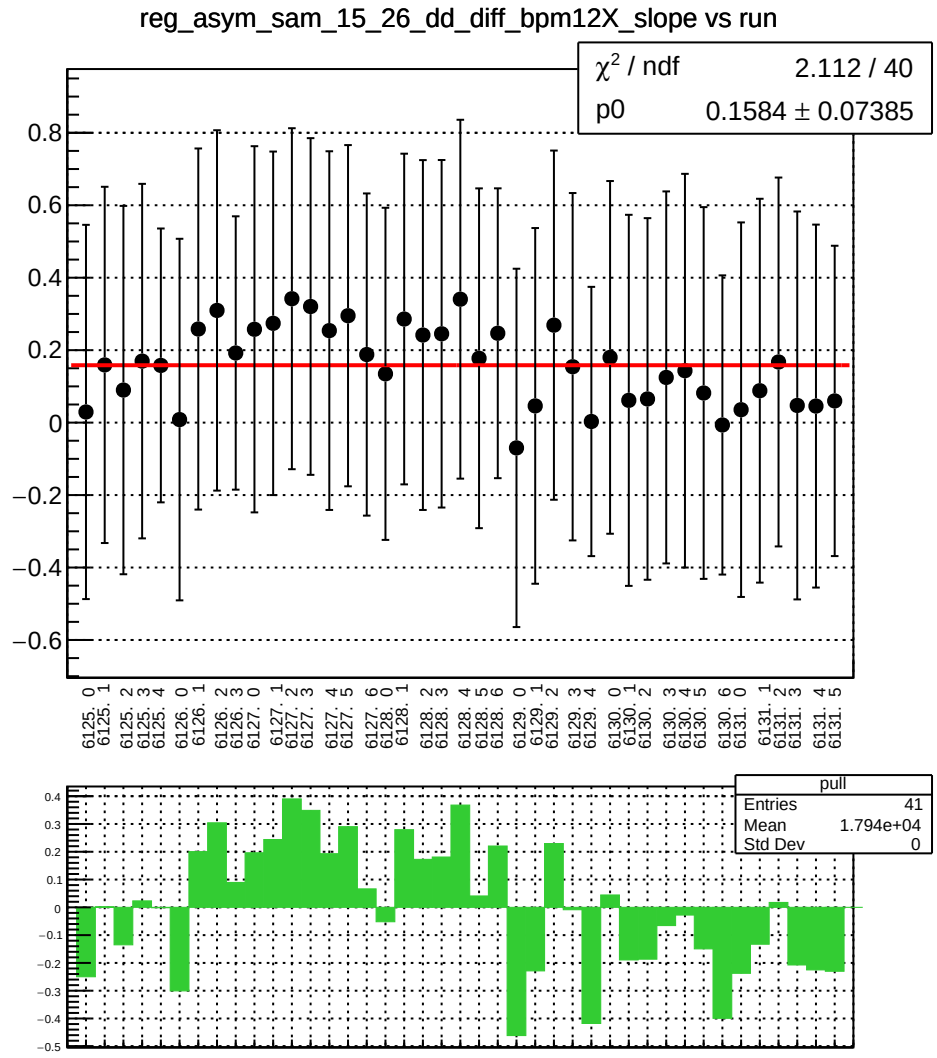

pull1D
Entries 41
Mean −0.001544
Std Dev 0.1755

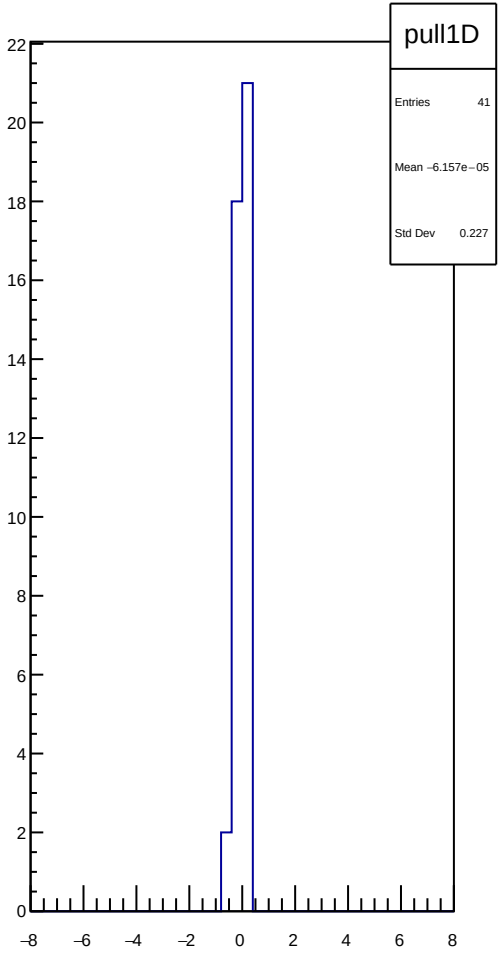

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.156 / 40
p0 −7.871 ± 0.8313
5
0
−5
−10
−15
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 116.6
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean 0.01745
Std Dev 0.3871
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

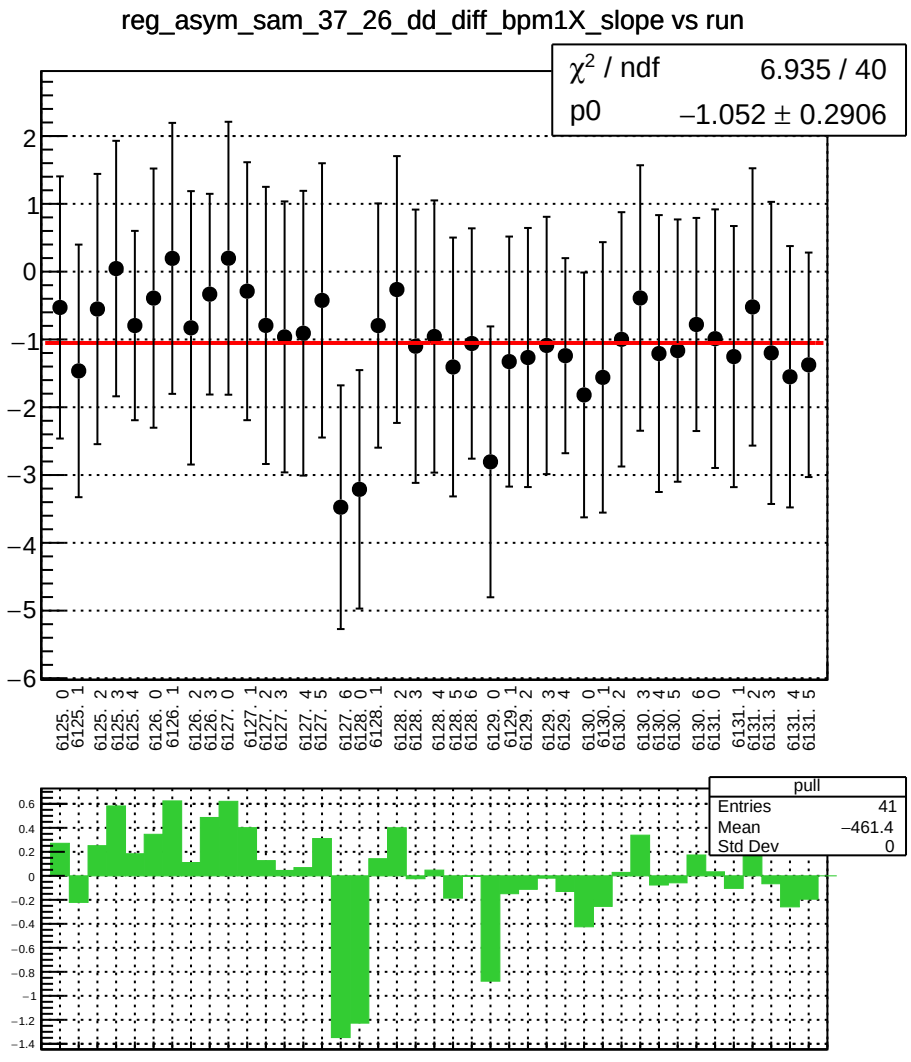

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.604 / 40
p0 33.08 ± 0.9398
pull
Entries 41
Mean 201.7
Std Dev 0

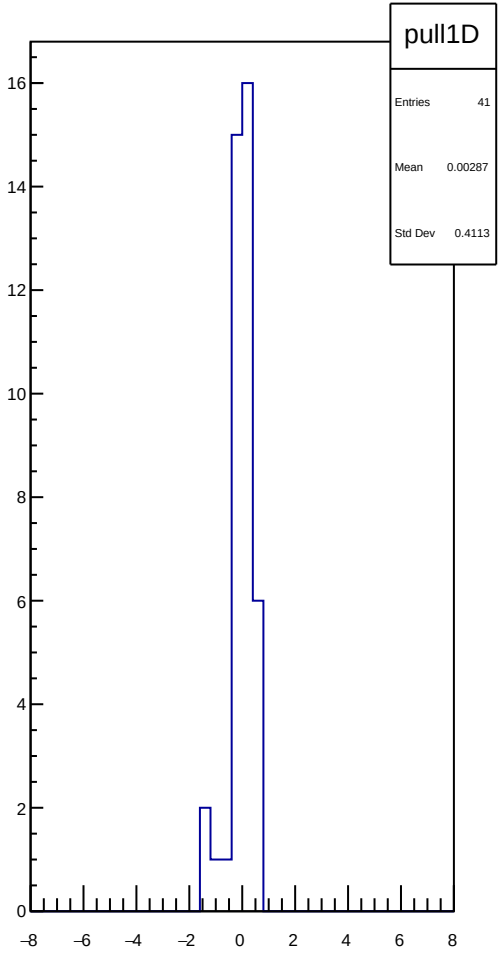

pull1D
Entries 41
Mean 0.004154
Std Dev 0.1978

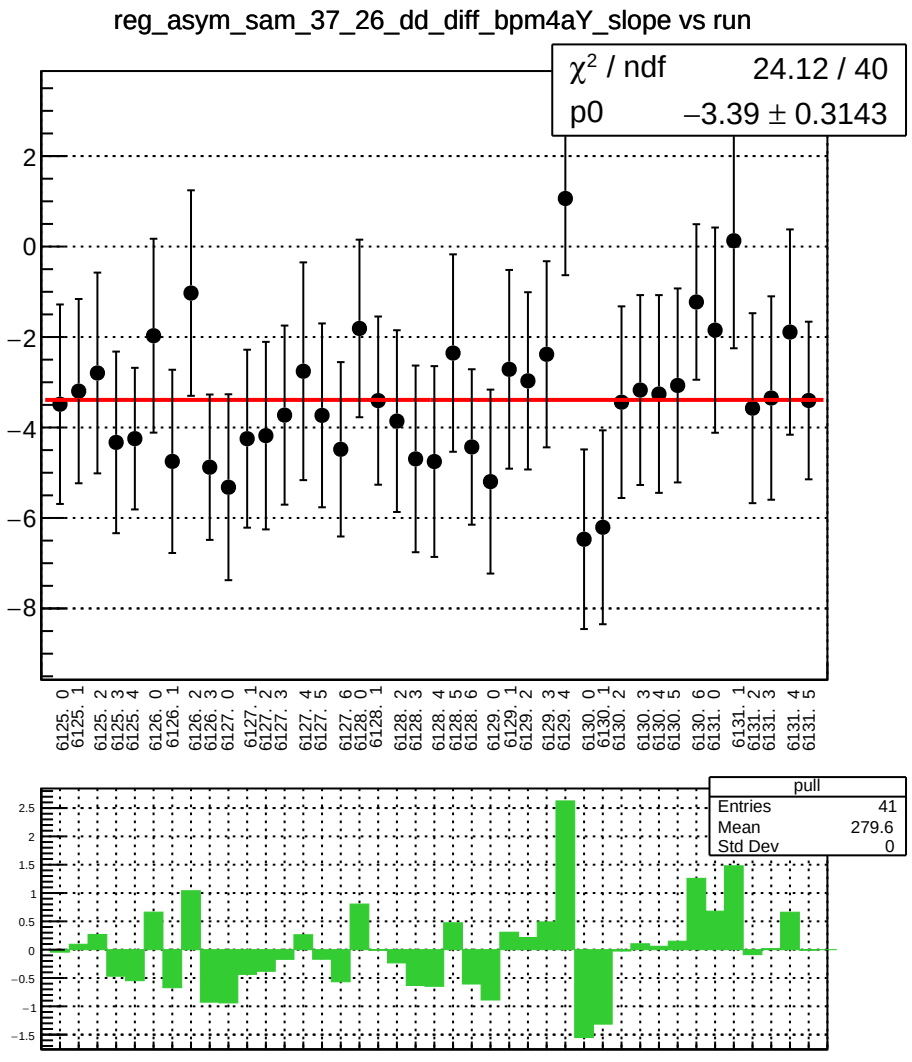

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.599 / 40
p0 62.84 ± 0.8803
70
65
60
55
50
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 148.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 41
Mean −0.01279
Std Dev 0.401
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

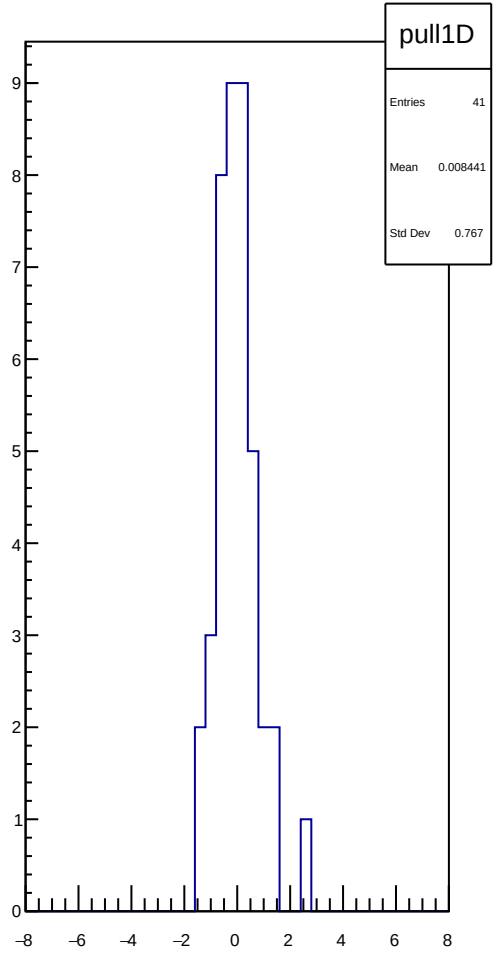

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 2.112 / 40
p0 0.1584 ± 0.07385
pull
Entries 41
Mean 1.794e+04
Std Dev 0

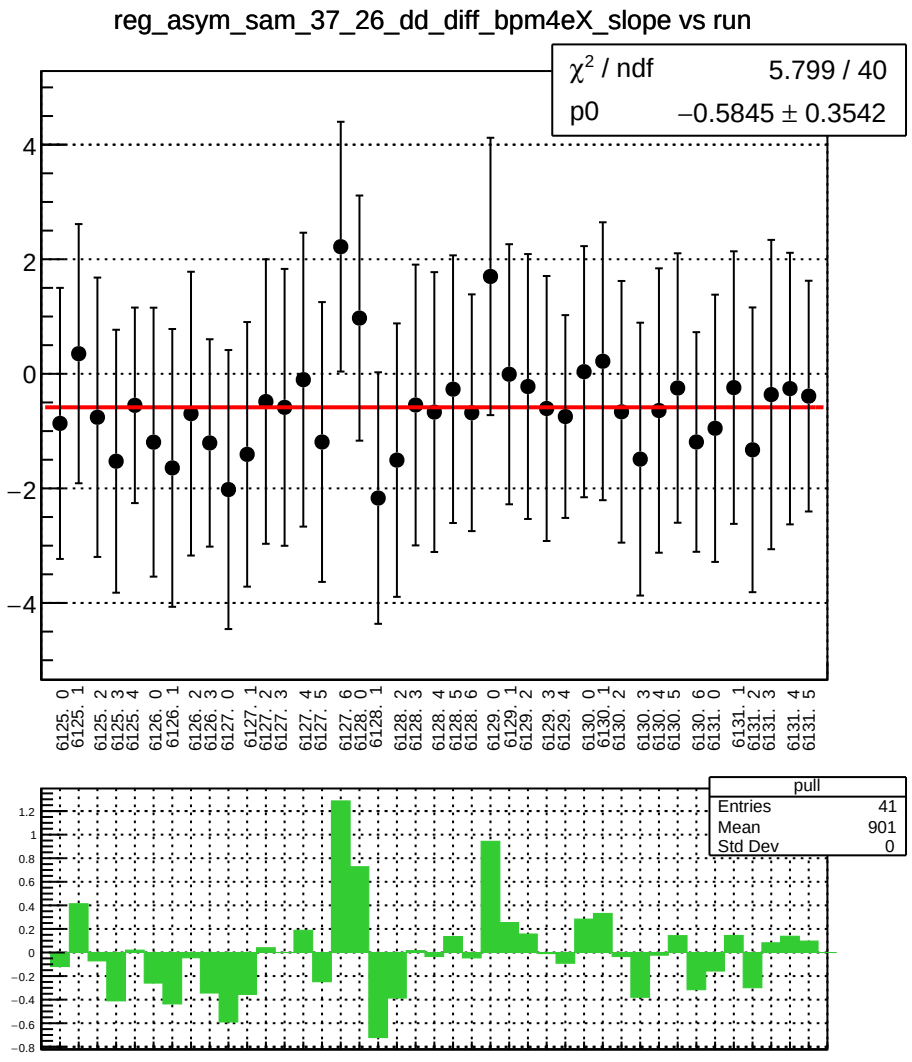

pull1D
Entries 41
Mean −6.157e−05
Std Dev 0.227

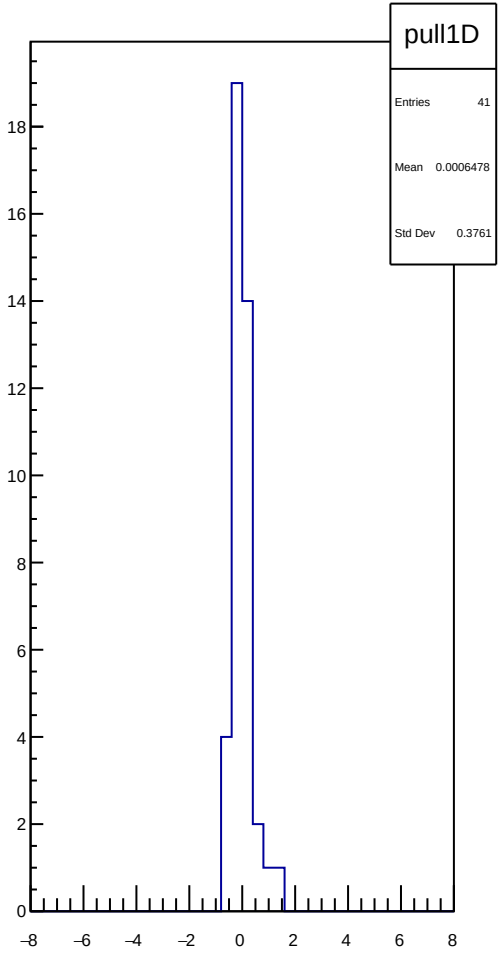

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 6.935 / 40
p0 −1.052 ± 0.2906
pull
Entries 41
Mean −461.4
Std Dev 0

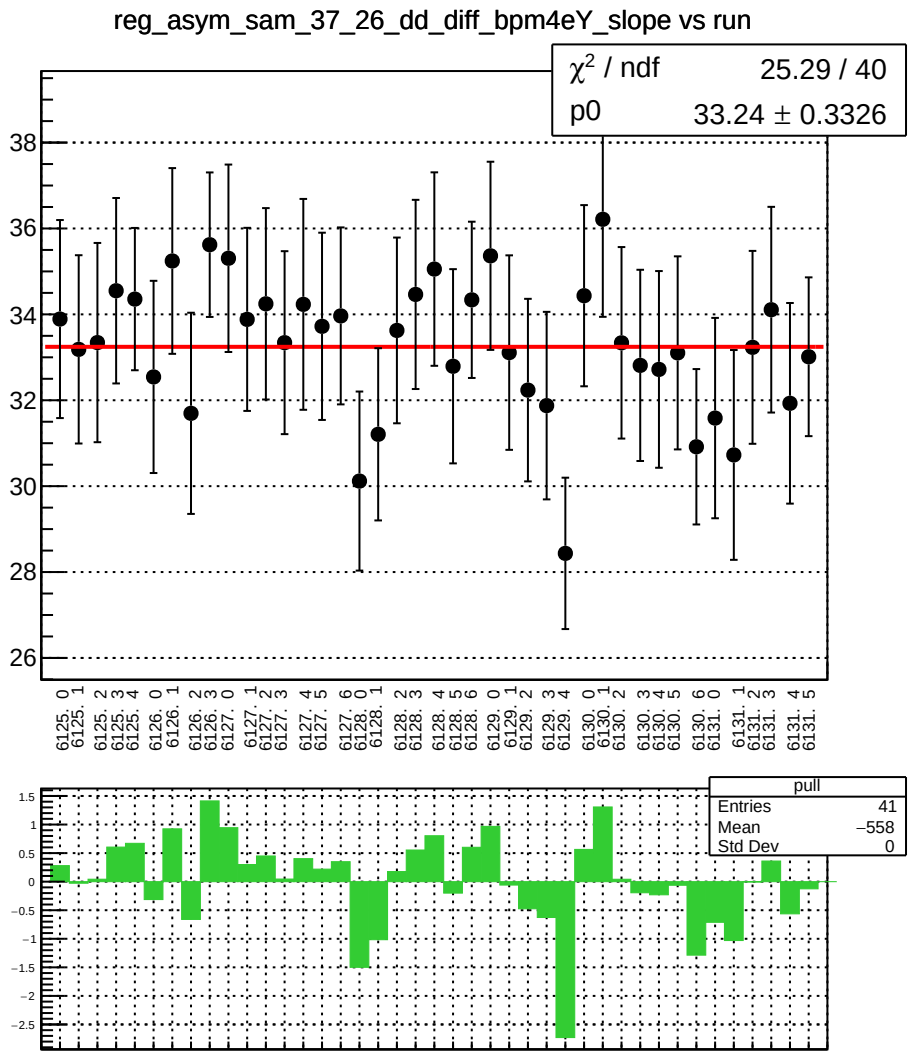

pull1D
Entries 41
Mean 0.00287
Std Dev 0.4113

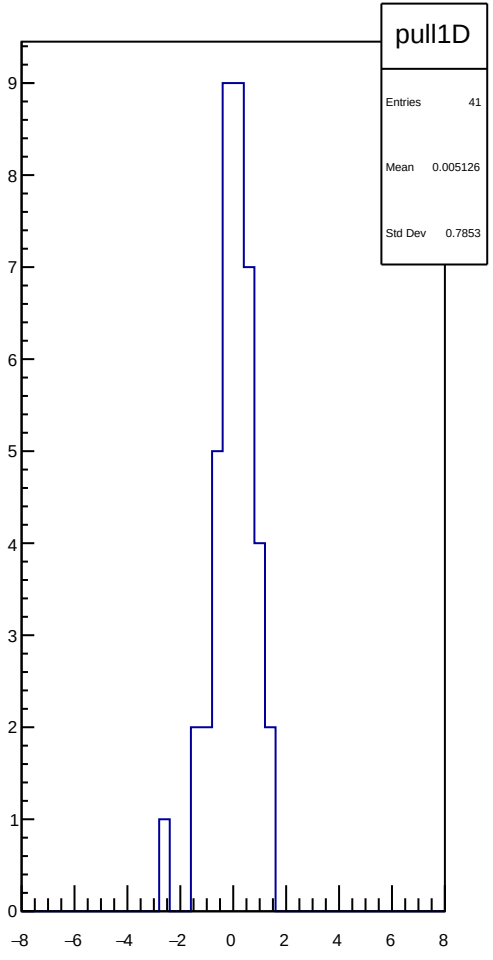

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.12 / 40
p0 −3.39 ± 0.3143
pull
Entries 41
Mean 279.6
Std Dev 0

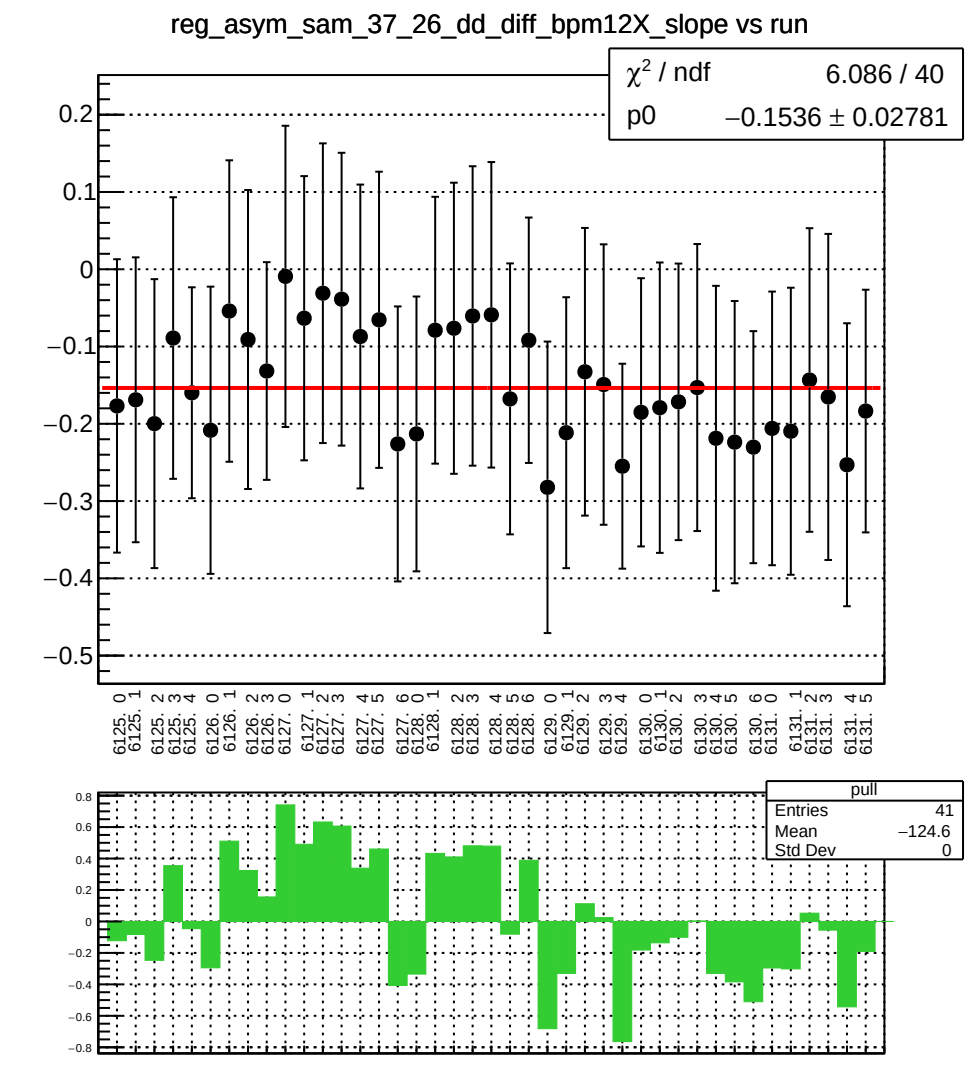

pull1D
Entries 41
Mean 0.008441
Std Dev 0.767

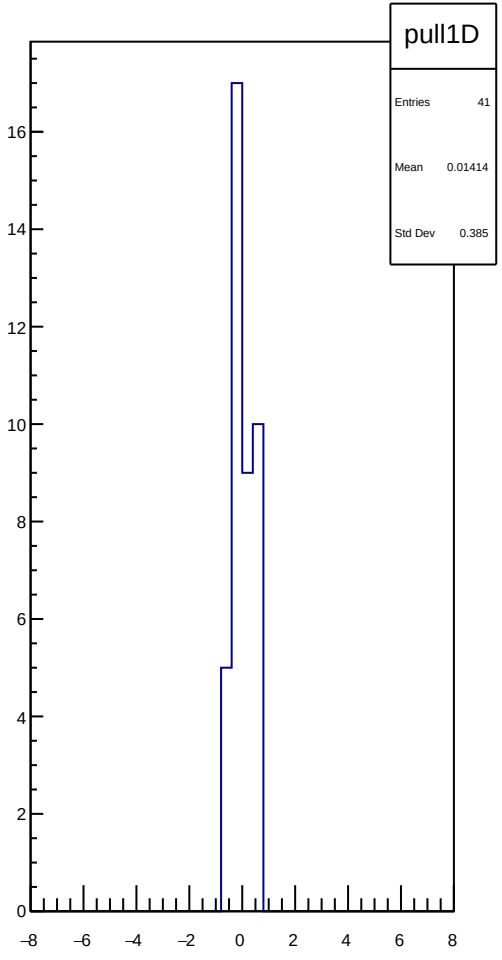

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.799 / 40
p0 −0.5845 ± 0.3542
pull
Entries 41
Mean 901
Std Dev 0

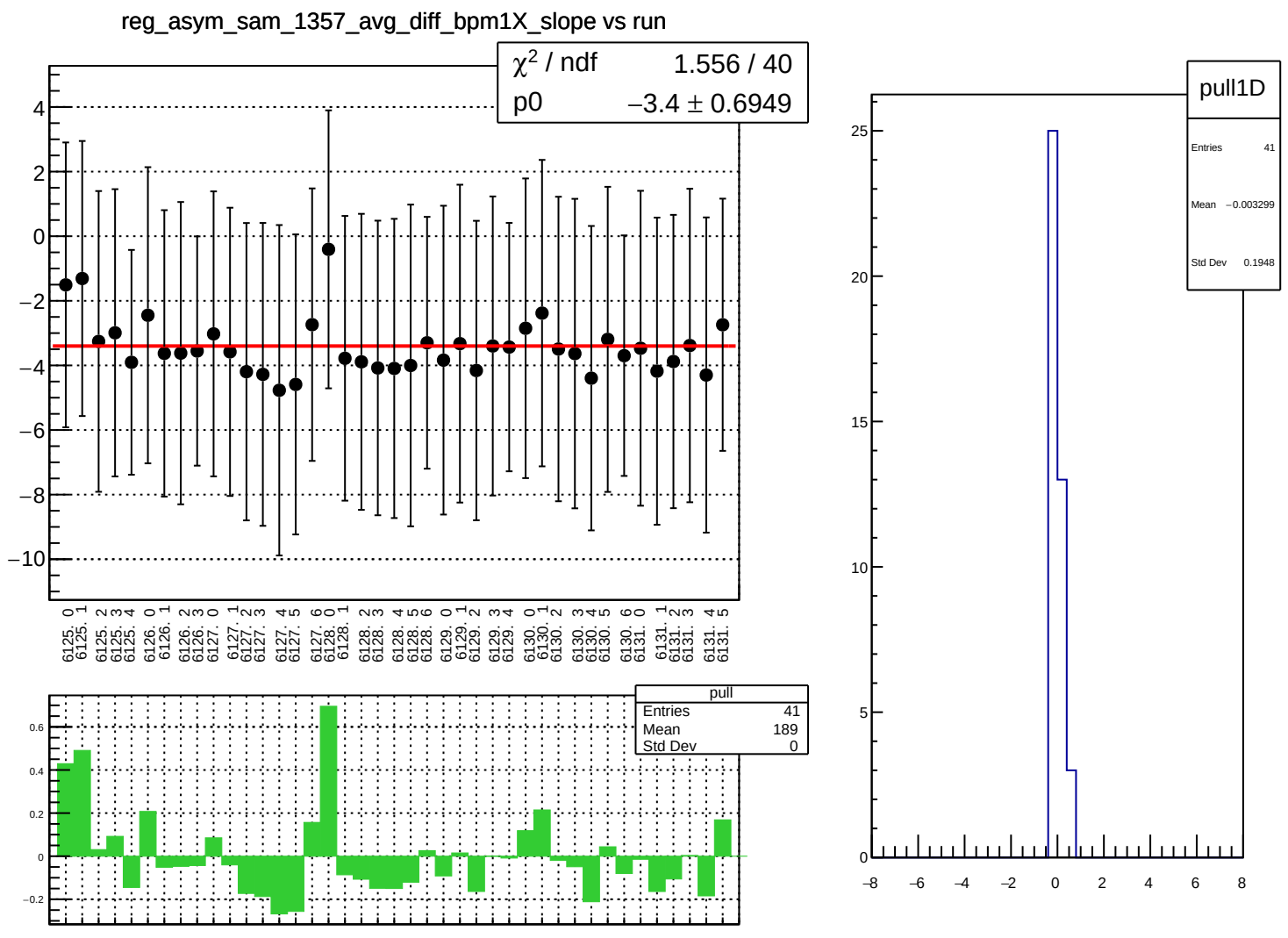

pull1D
Entries 41
Mean 0.0006478
Std Dev 0.3761

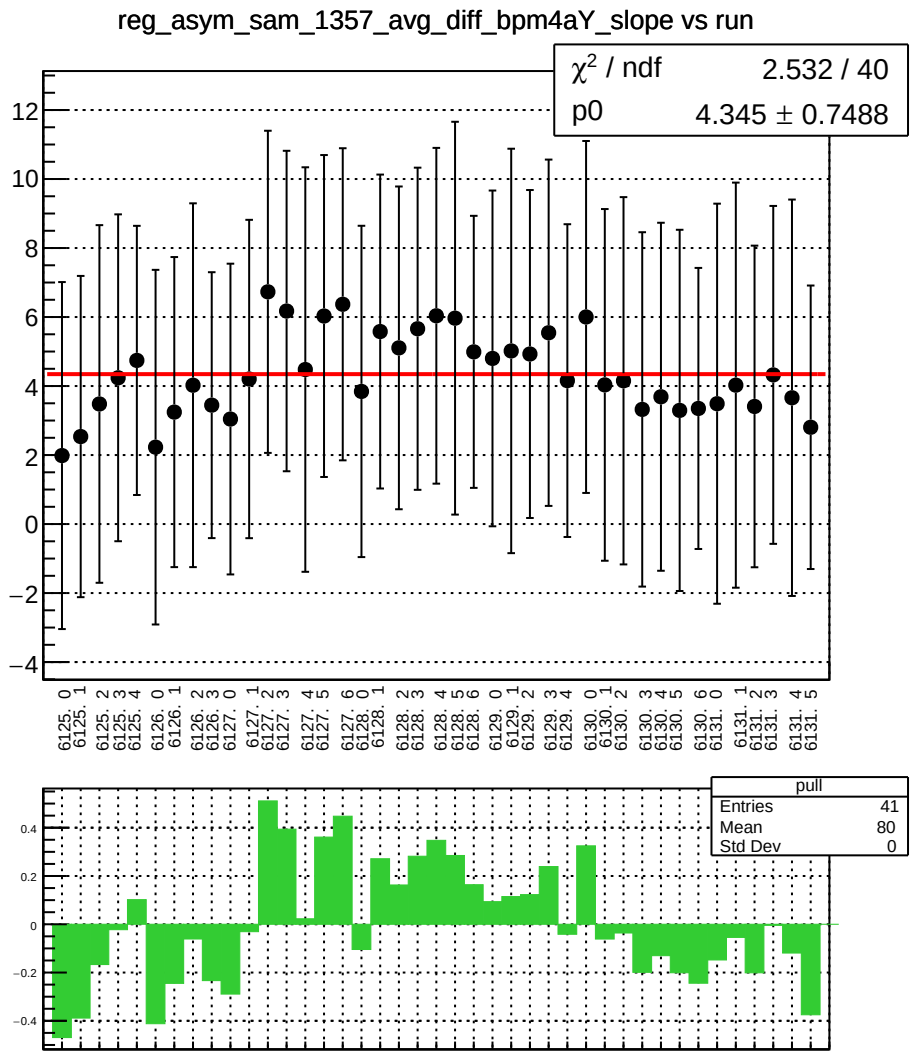

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.29 / 40
p0 33.24 ± 0.3326
38
36
34
32
30
28
26
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −558
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

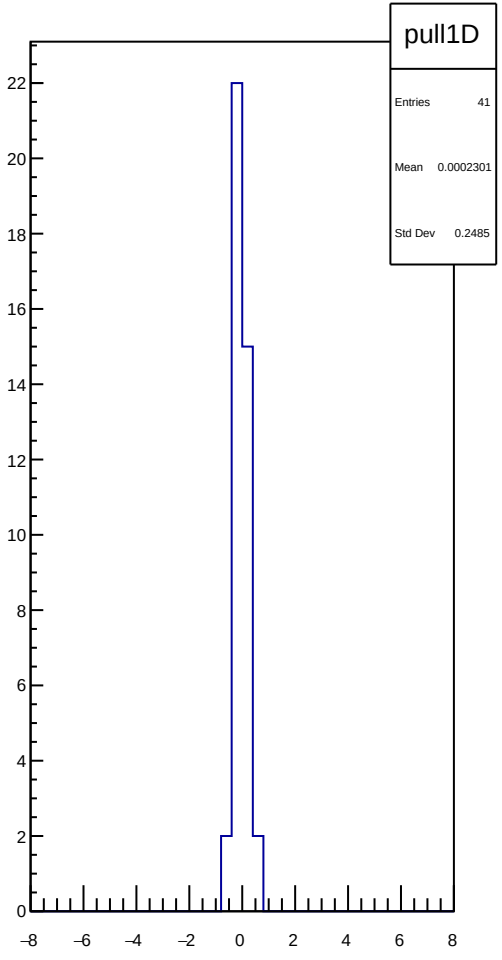

pull1D
Entries 41
Mean 0.005126
Std Dev 0.7853
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

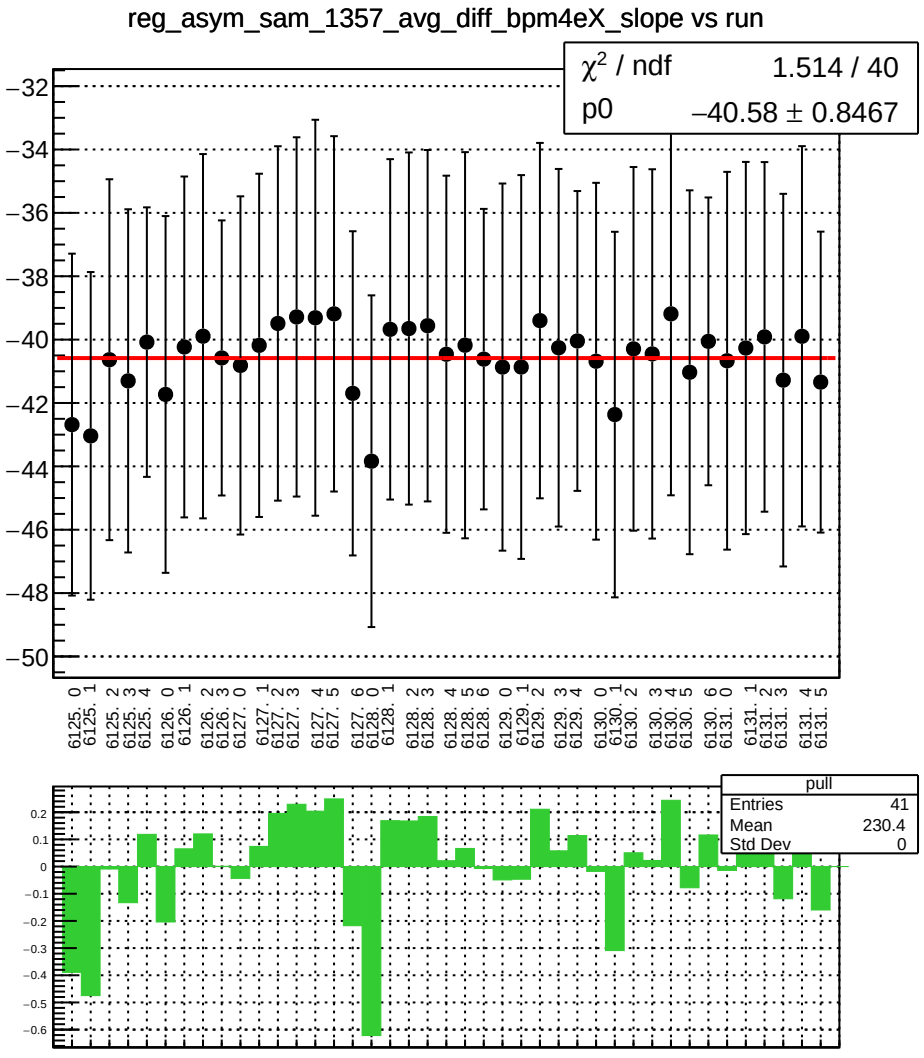

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 6.086 / 40
p0 −0.1536 ± 0.02781
pull
Entries 41
Mean −124.6
Std Dev 0

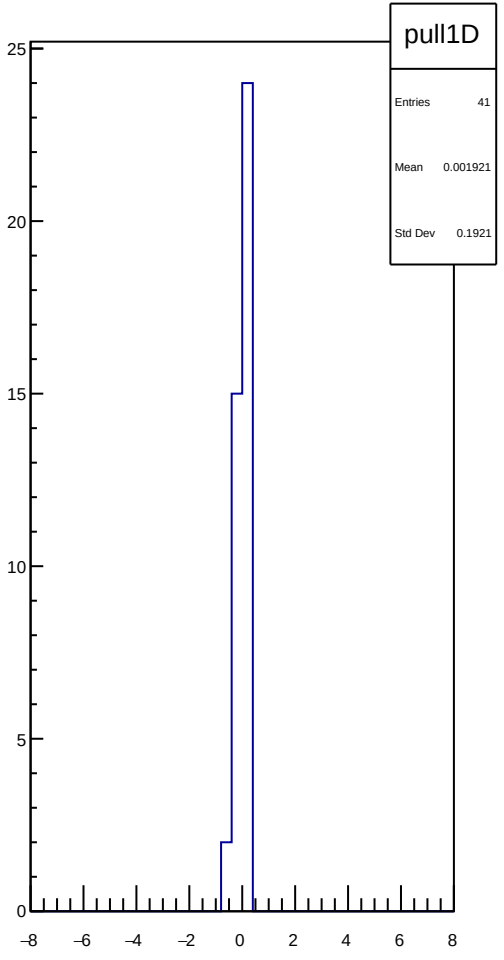

pull1D
Entries 41
Mean 0.01414
Std Dev 0.385

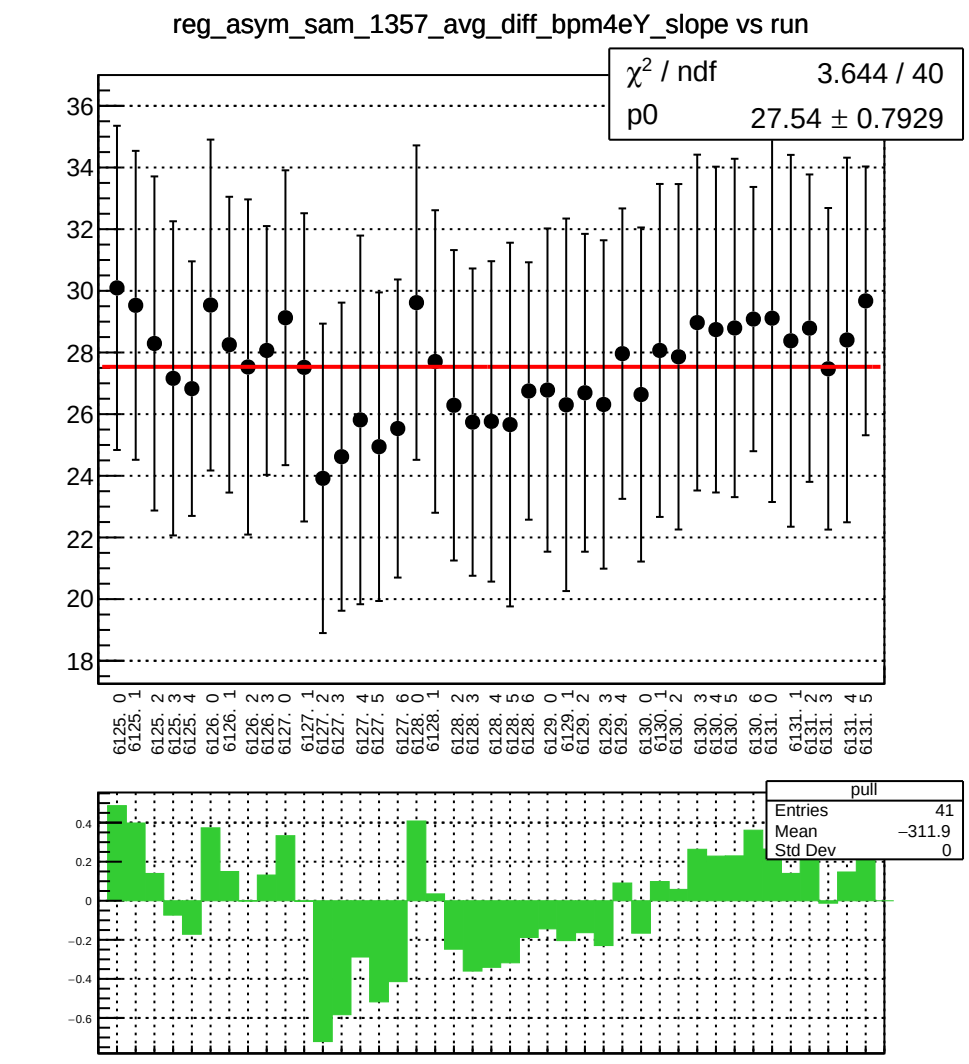

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 1.556 / 40
p0 −3.4 ± 0.6949
pull
Entries 41
Mean 189
Std Dev 0
pull1D
Entries 41
Mean −0.003299
Std Dev 0.1948

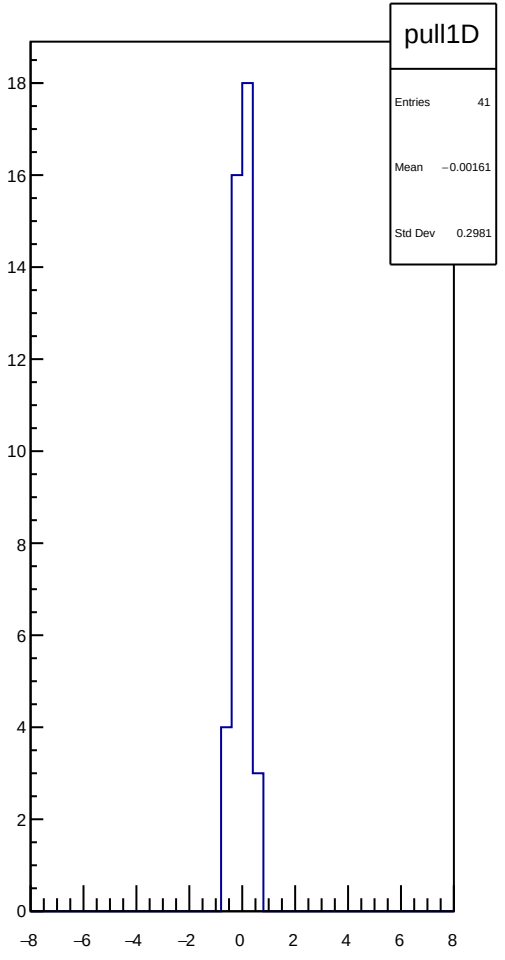

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.532 / 40
p0 4.345 ± 0.7488
pull
Entries 41
Mean 80
Std Dev 0

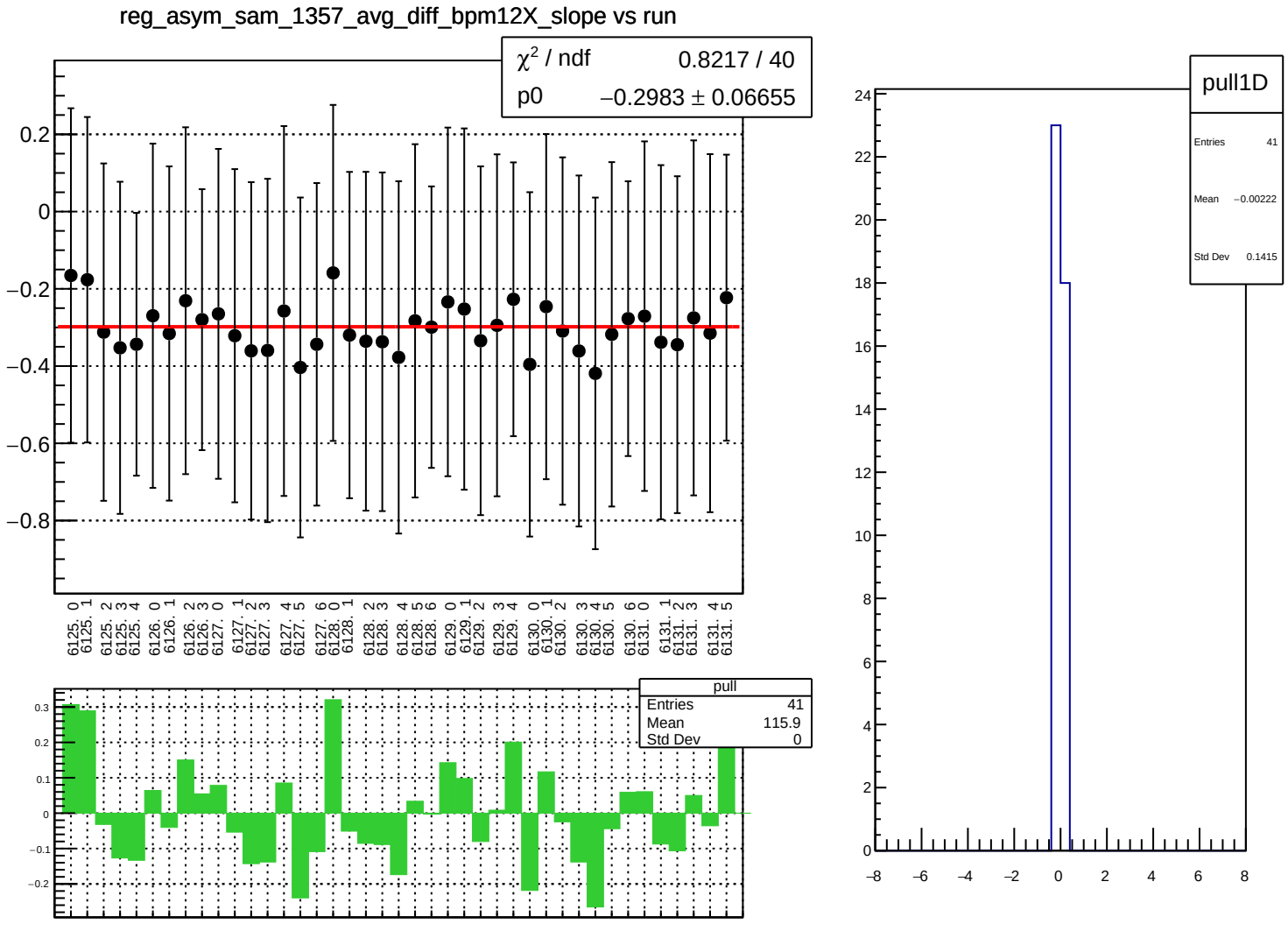

pull1D
Entries 41
Mean 0.0002301
Std Dev 0.2485

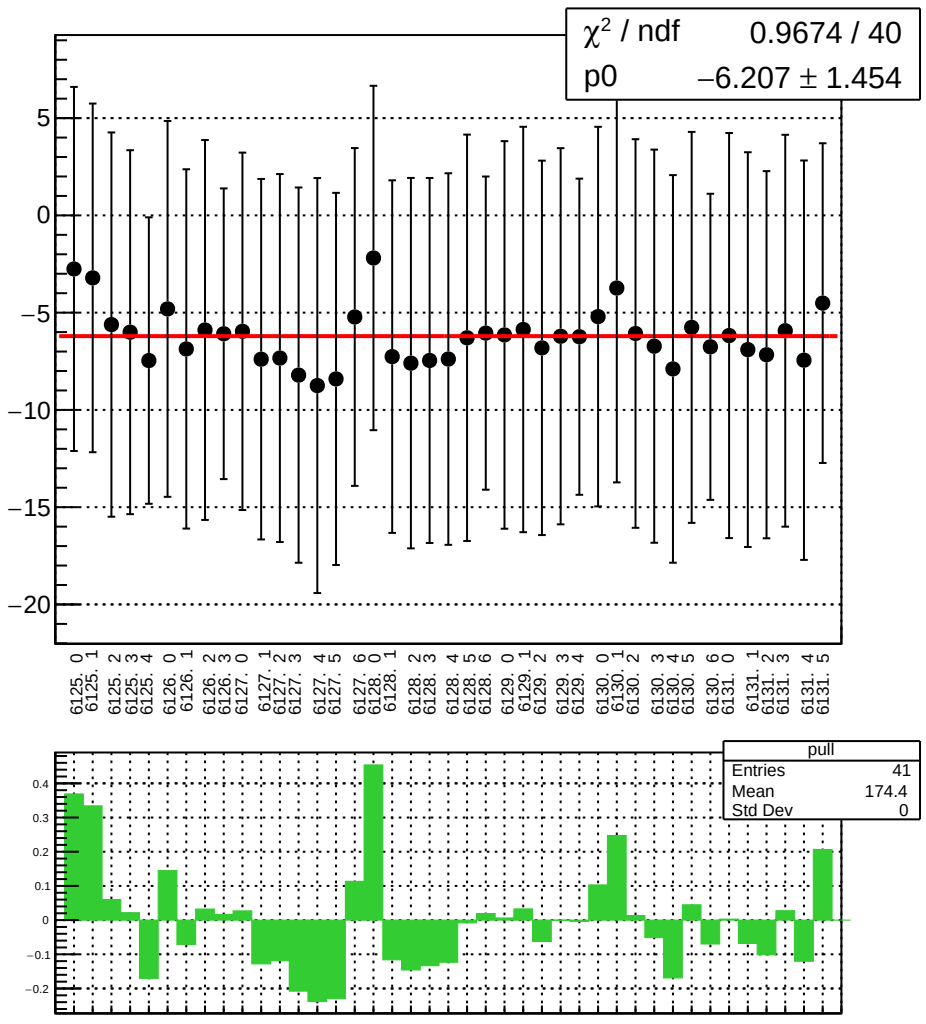

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.514 / 40
p0 −40.58 ± 0.8467
pull
Entries 41
Mean 230.4
Std Dev 0

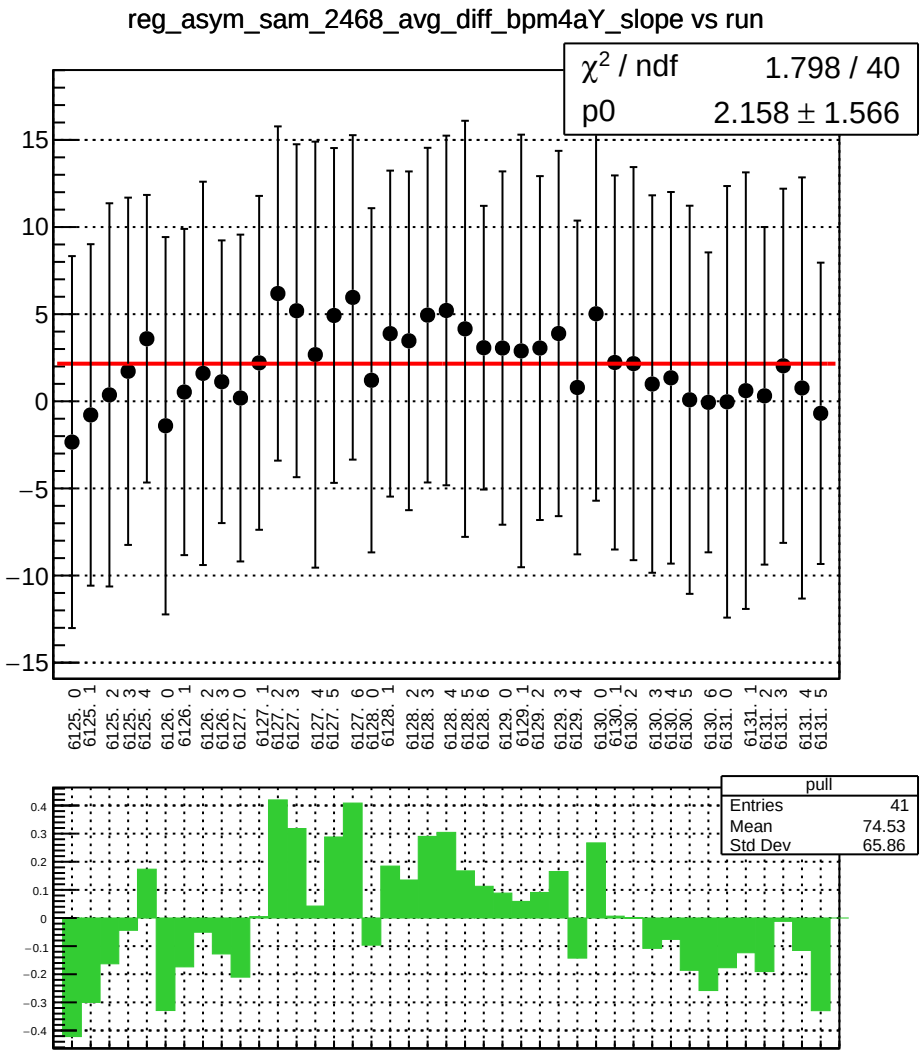

pull1D
Entries 41
Mean 0.001921
Std Dev 0.1921

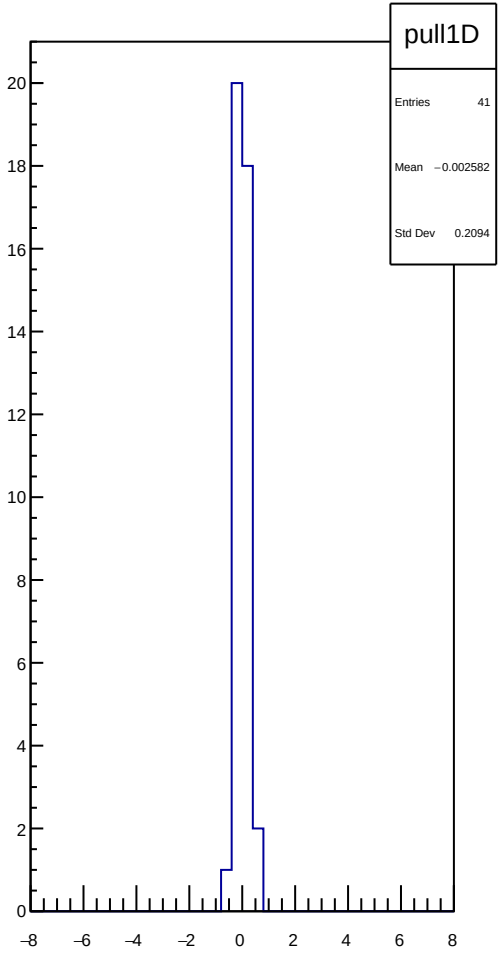

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.644 / 40
p0 27.54 ± 0.7929
pull
Entries 41
Mean −311.9
Std Dev 0

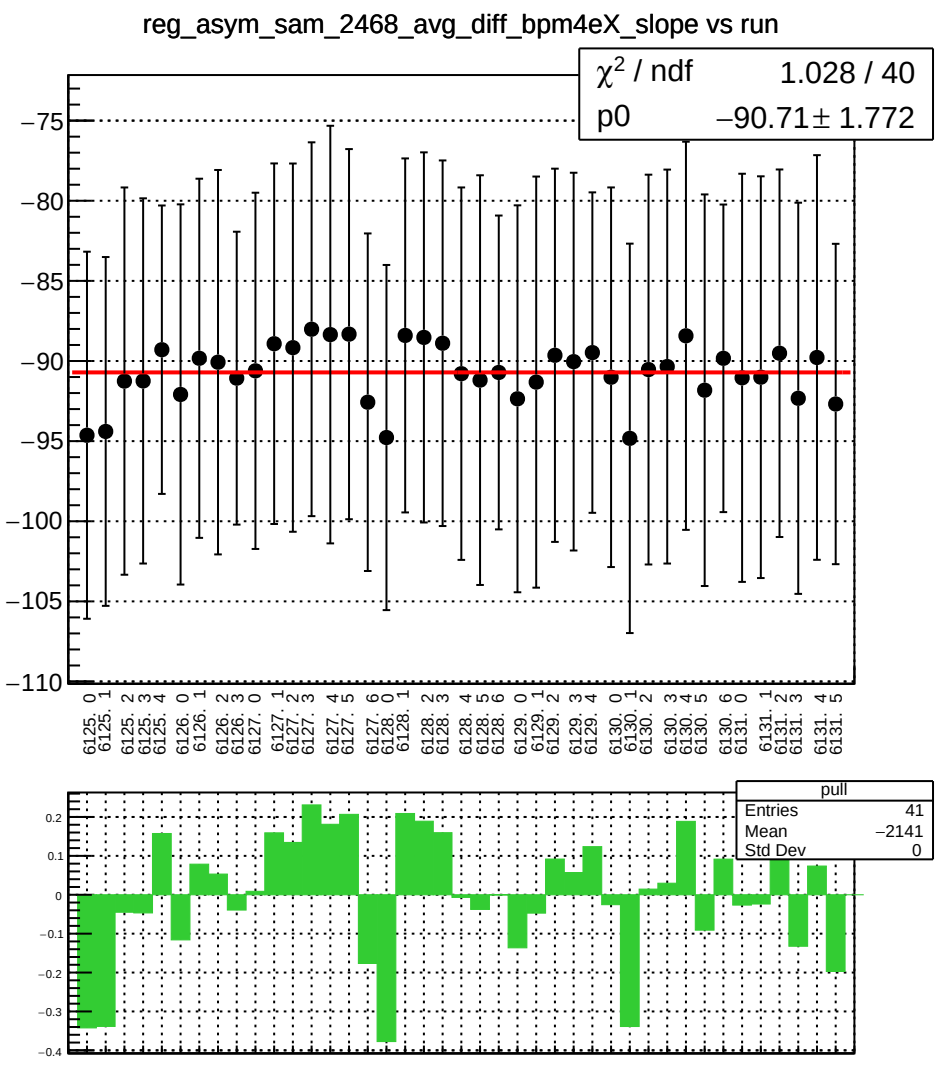

pull1D
Entries 41
Mean −0.00161
Std Dev 0.2981

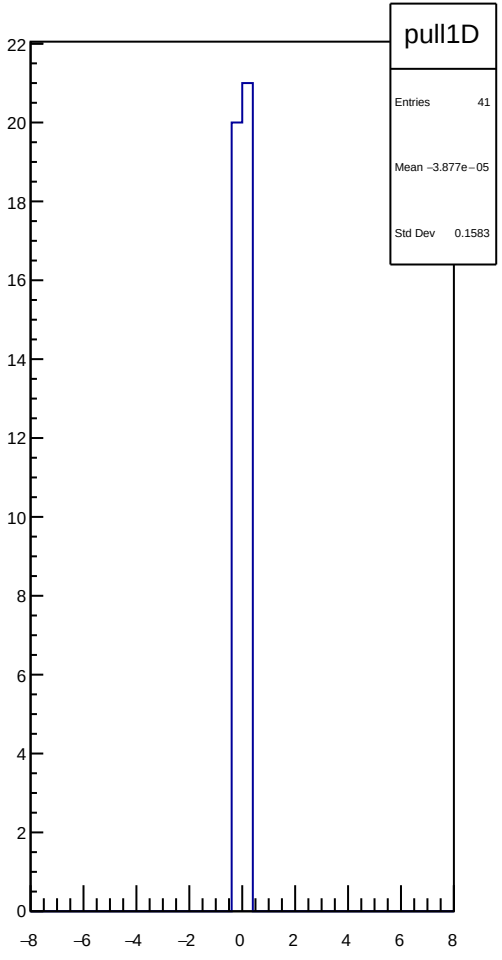

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 0.8217 / 40
p0 −0.2983 ± 0.06655
0.2
0
−0.2
−0.4
−0.6
−0.8
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 115.9
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 41
Mean −0.00222
Std Dev 0.1415
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

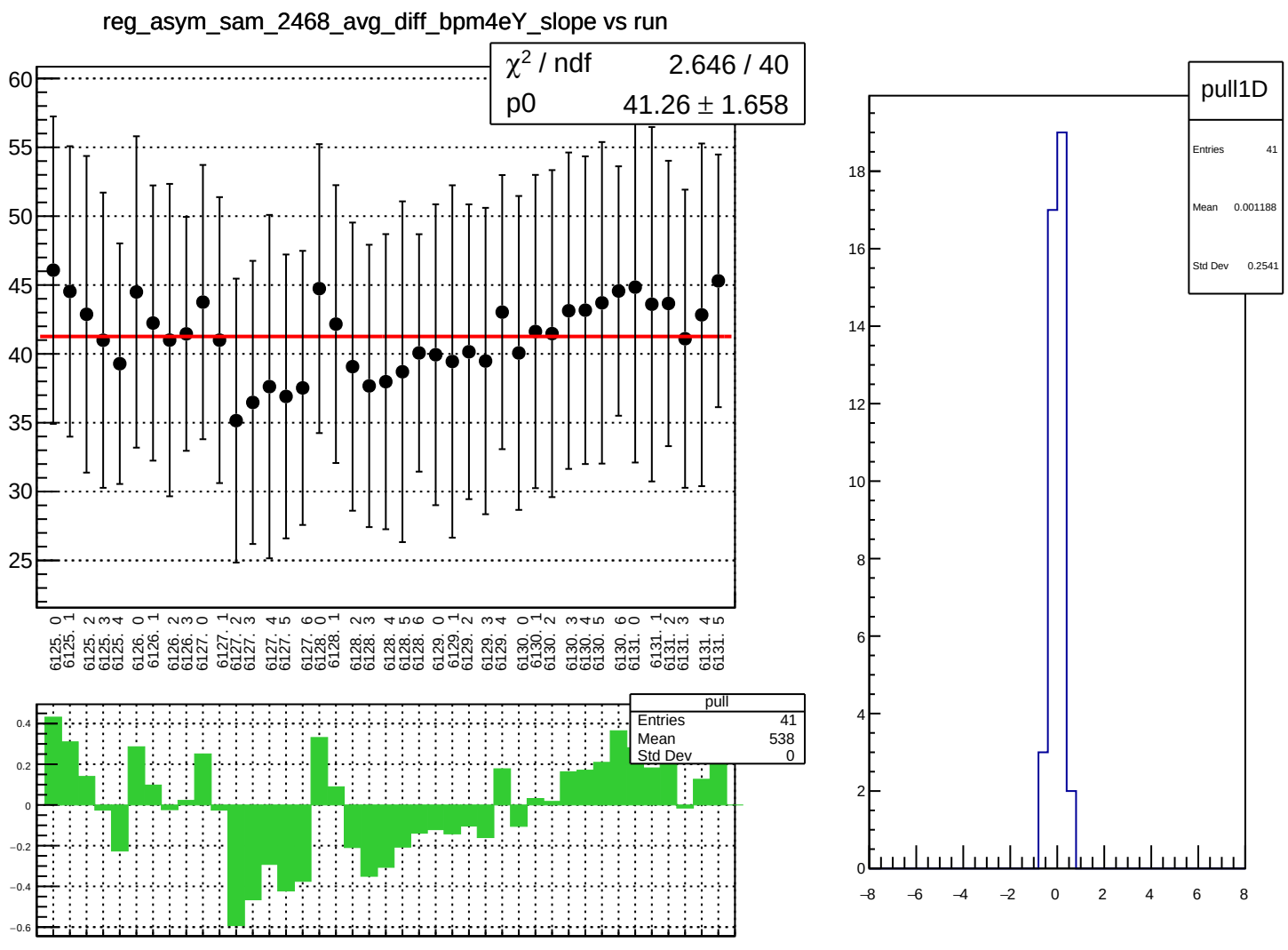

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 0.9674 / 40
p0 −6.207 ± 1.454
pull
Entries 41
Mean 174.4
Std Dev 0
pull1D
Entries 41
Mean −0.001504
Std Dev 0.1536

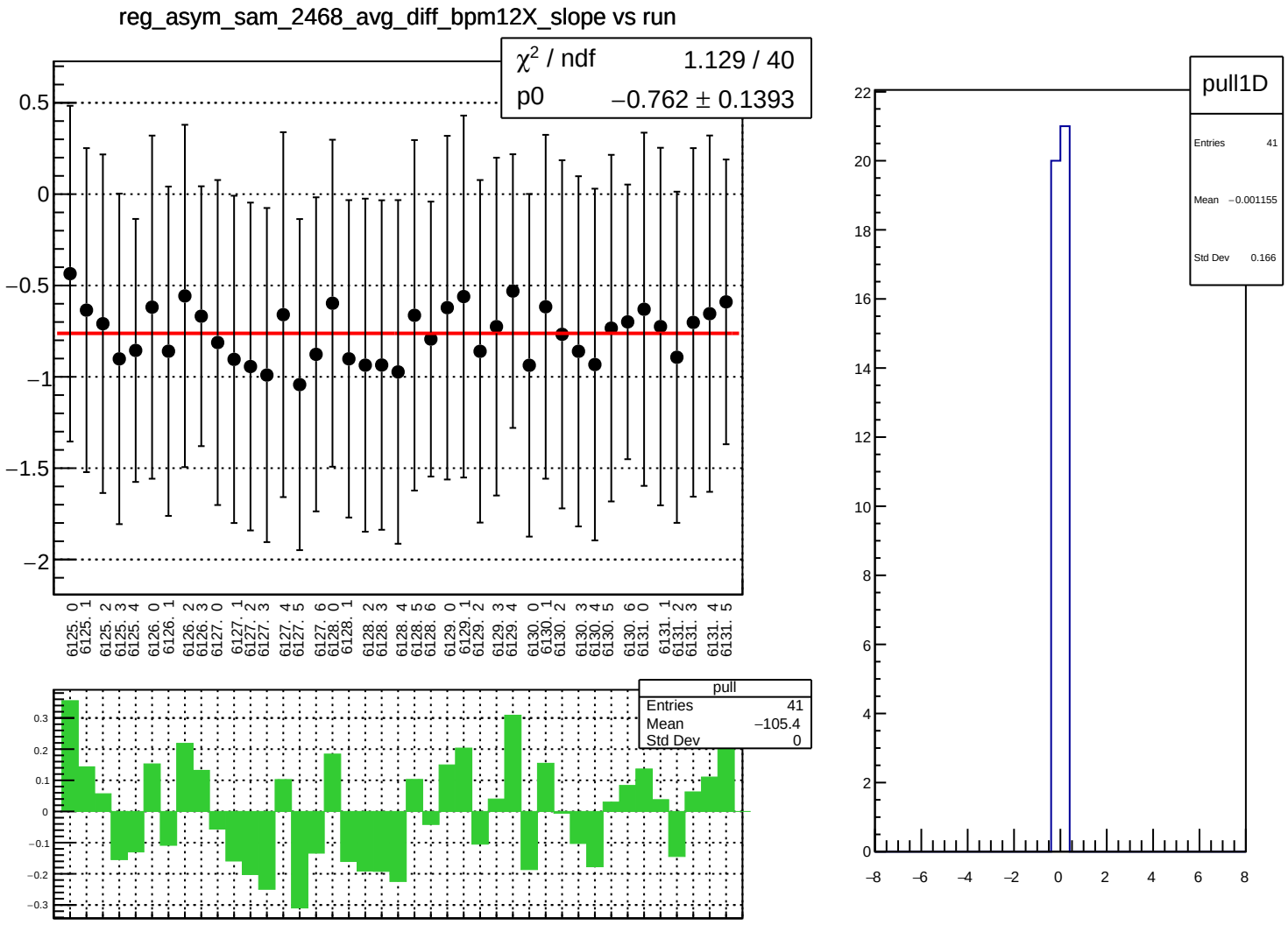

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.798 / 40
p0 2.158 ± 1.566
pull
Entries 41
Mean 74.53
Std Dev 65.86

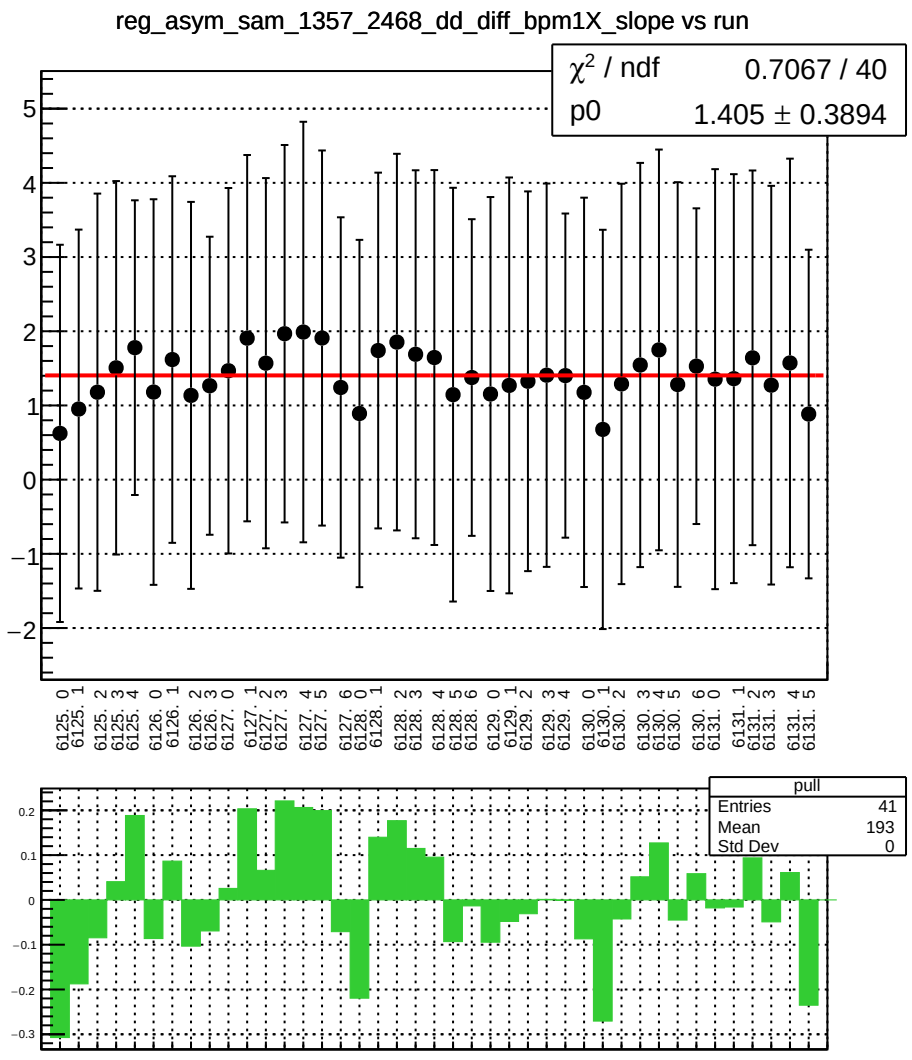

pull1D
Entries 41
Mean −0.002582
Std Dev 0.2094

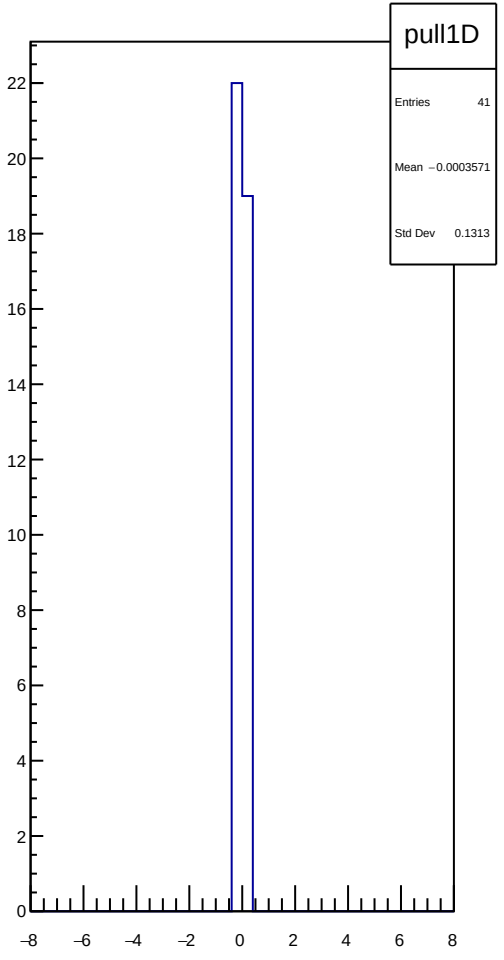

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.028 / 40
p0 −90.71± 1.772
pull
Entries 41
Mean −2141
Std Dev 0

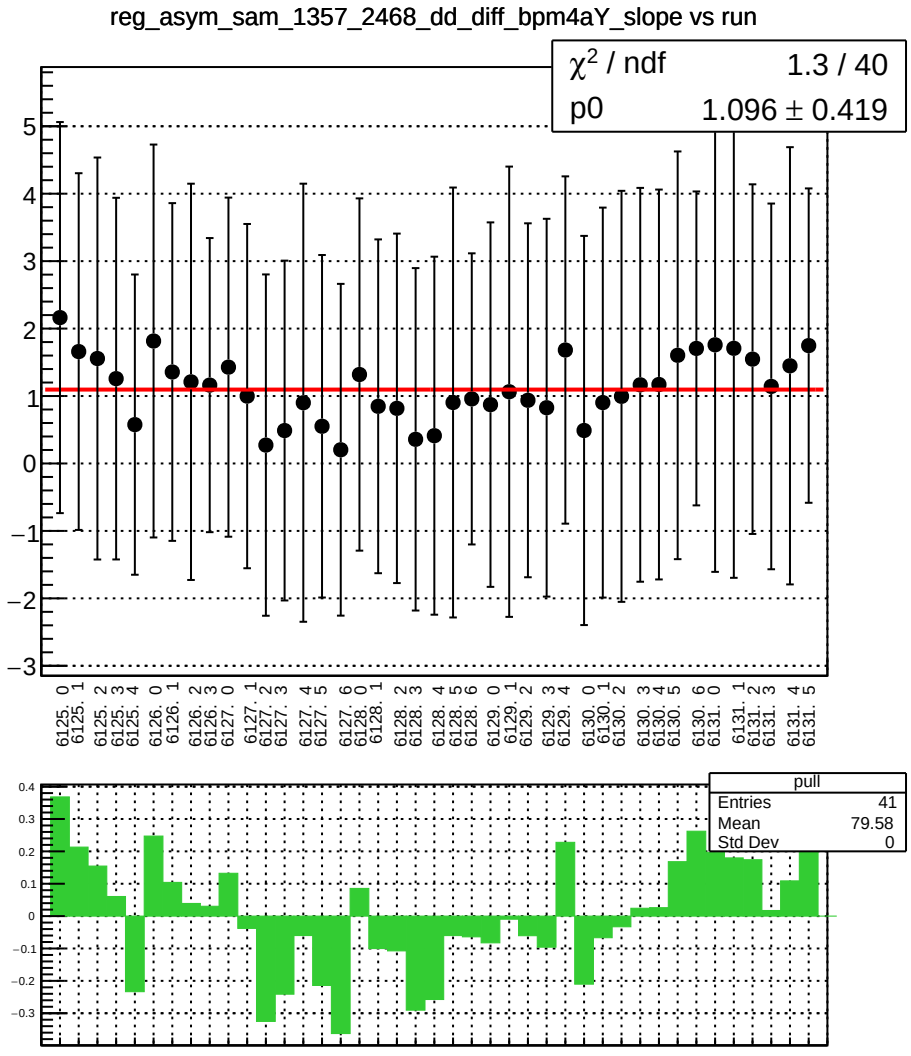

pull1D
Entries 41
Mean −3.877e−05
Std Dev 0.1583

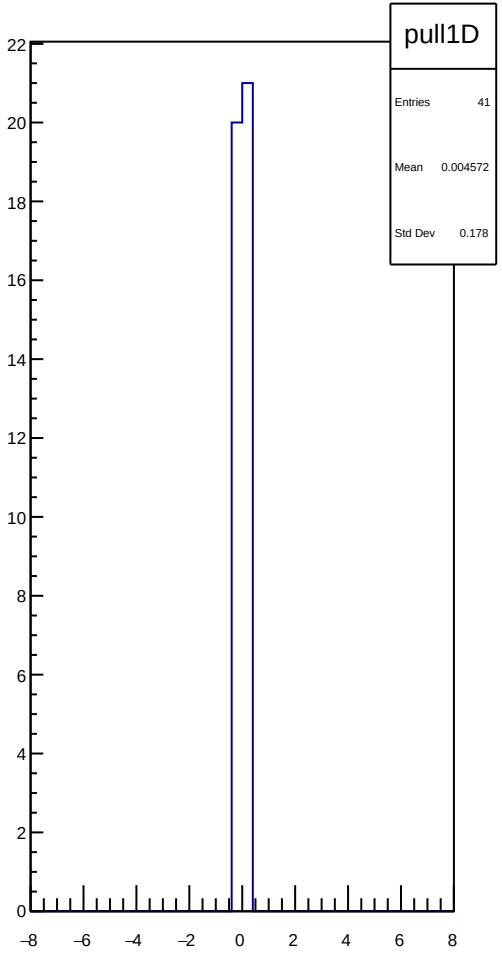

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.646 / 40
p0 41.26 ± 1.658
pull
Entries 41
Mean 538
Std Dev 0
pull1D
Entries 41
Mean 0.001188
Std Dev 0.2541

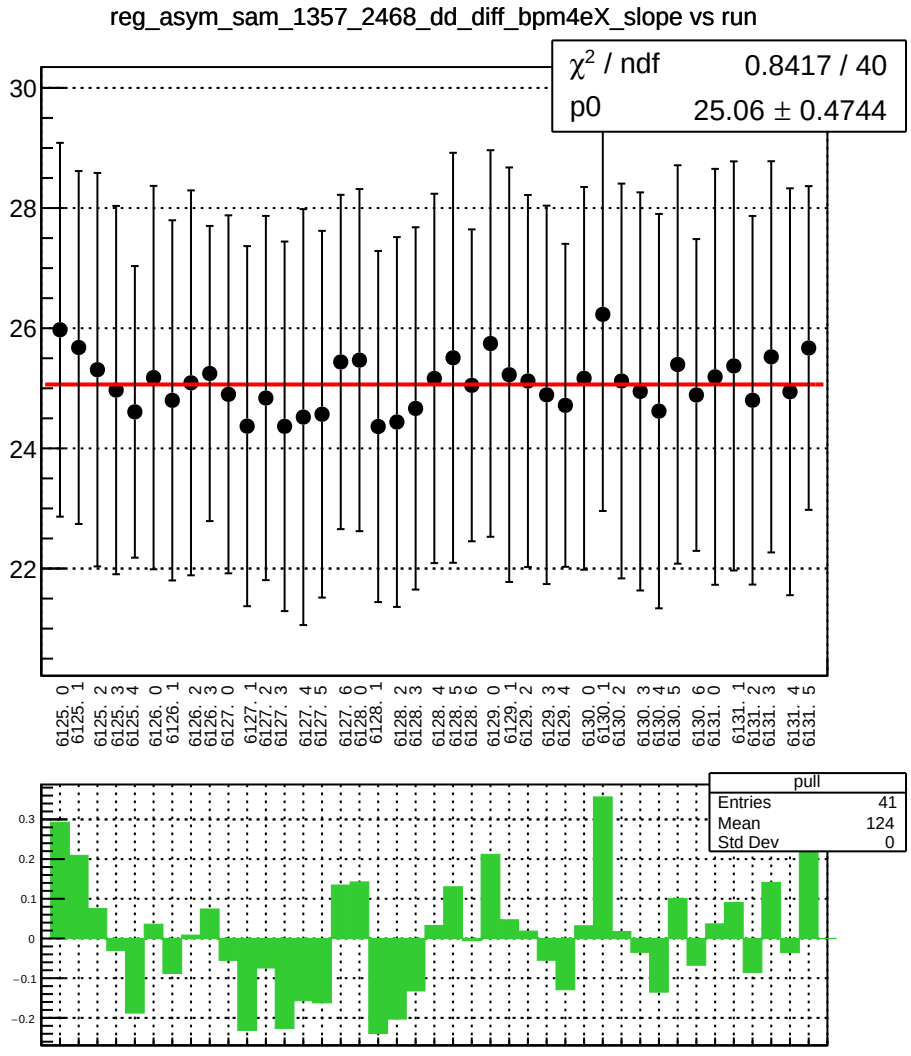

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 1.129 / 40
p0 −0.762 ± 0.1393
pull
Entries 41
Mean −105.4
Std Dev 0
pull1D
Entries 41
Mean −0.001155
Std Dev 0.166

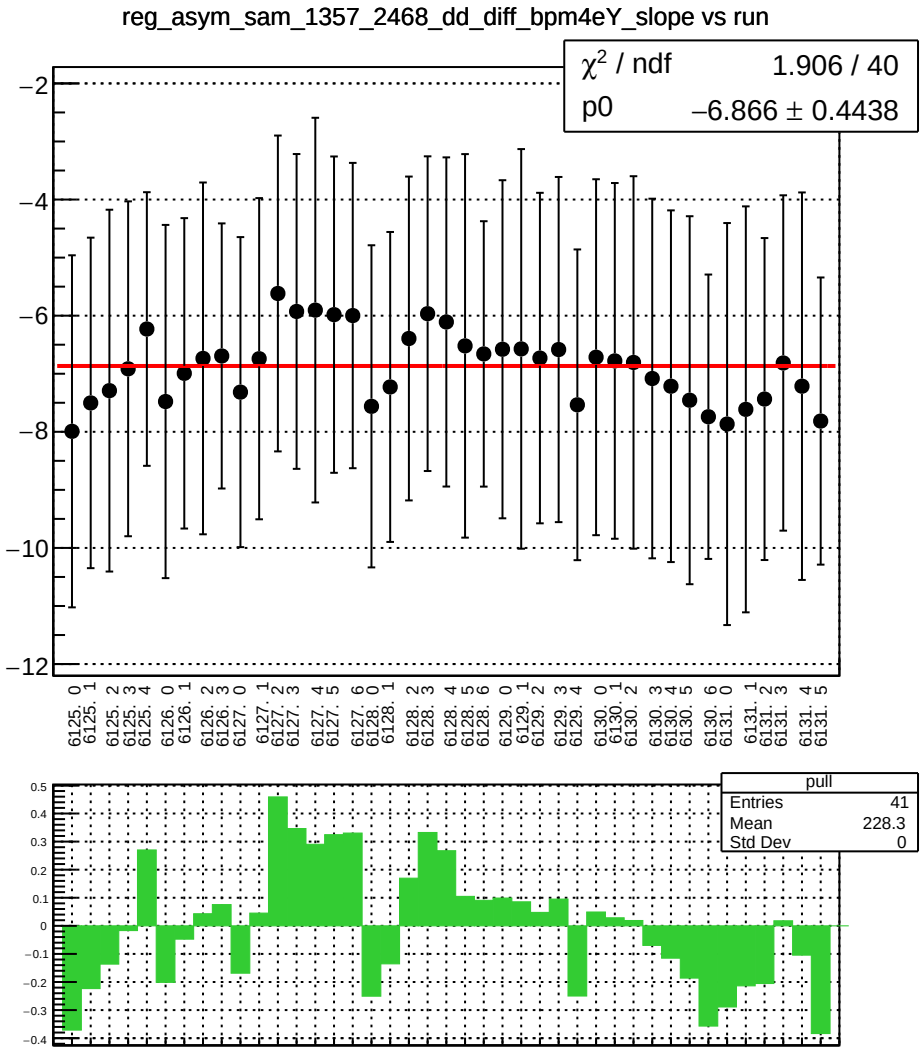

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 0.7067 / 40
p0 1.405 ± 0.3894
pull
Entries 41
Mean 193
Std Dev 0

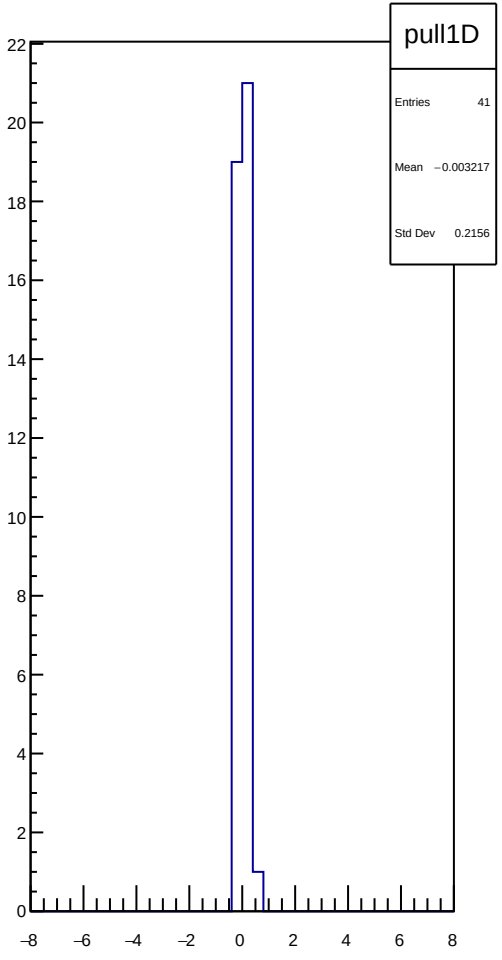

pull1D
Entries 41
Mean −0.0003571
Std Dev 0.1313

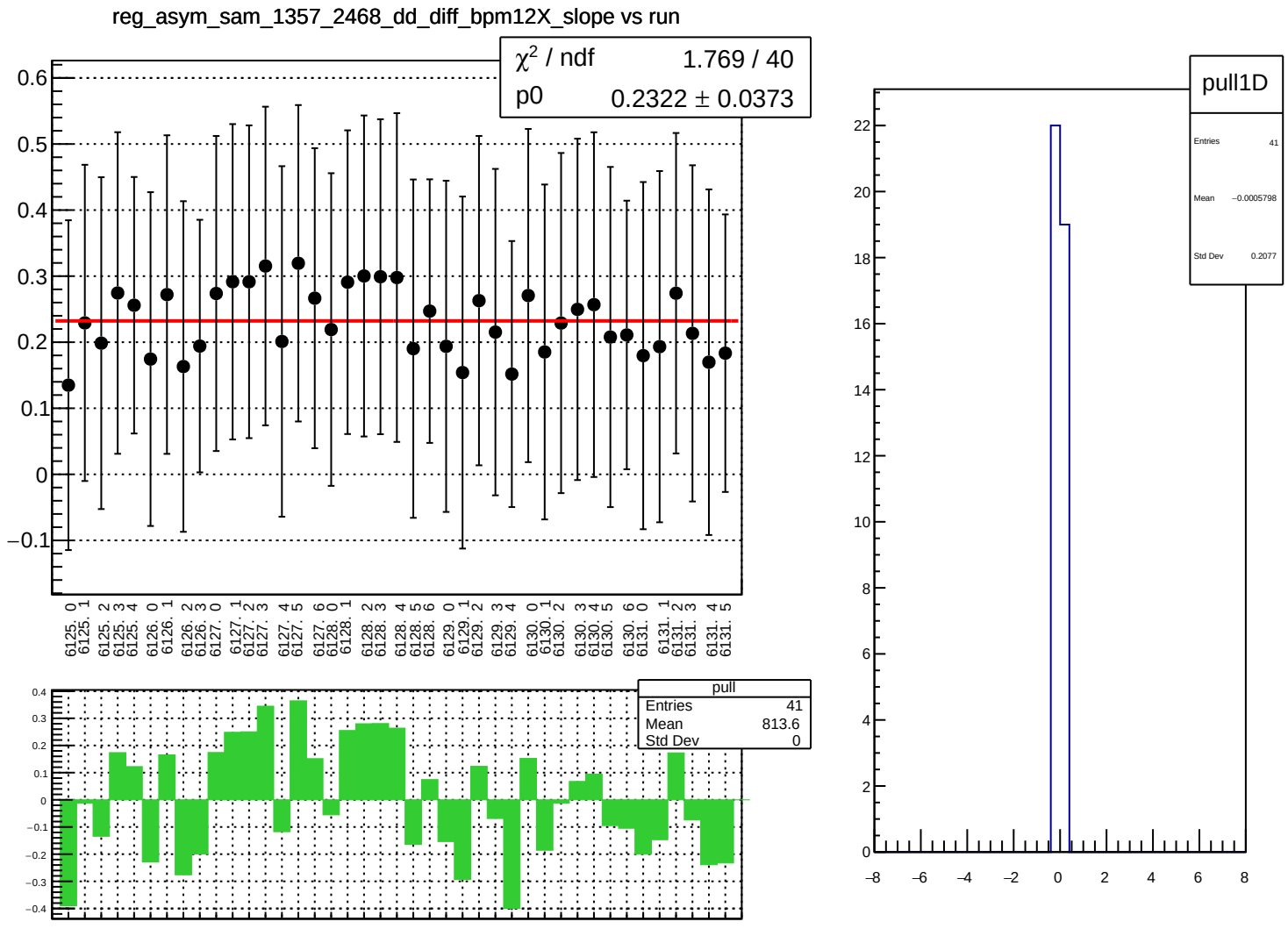

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.3 / 40
p0 1.096 ± 0.419
pull
Entries 41
Mean 79.58
Std Dev 0

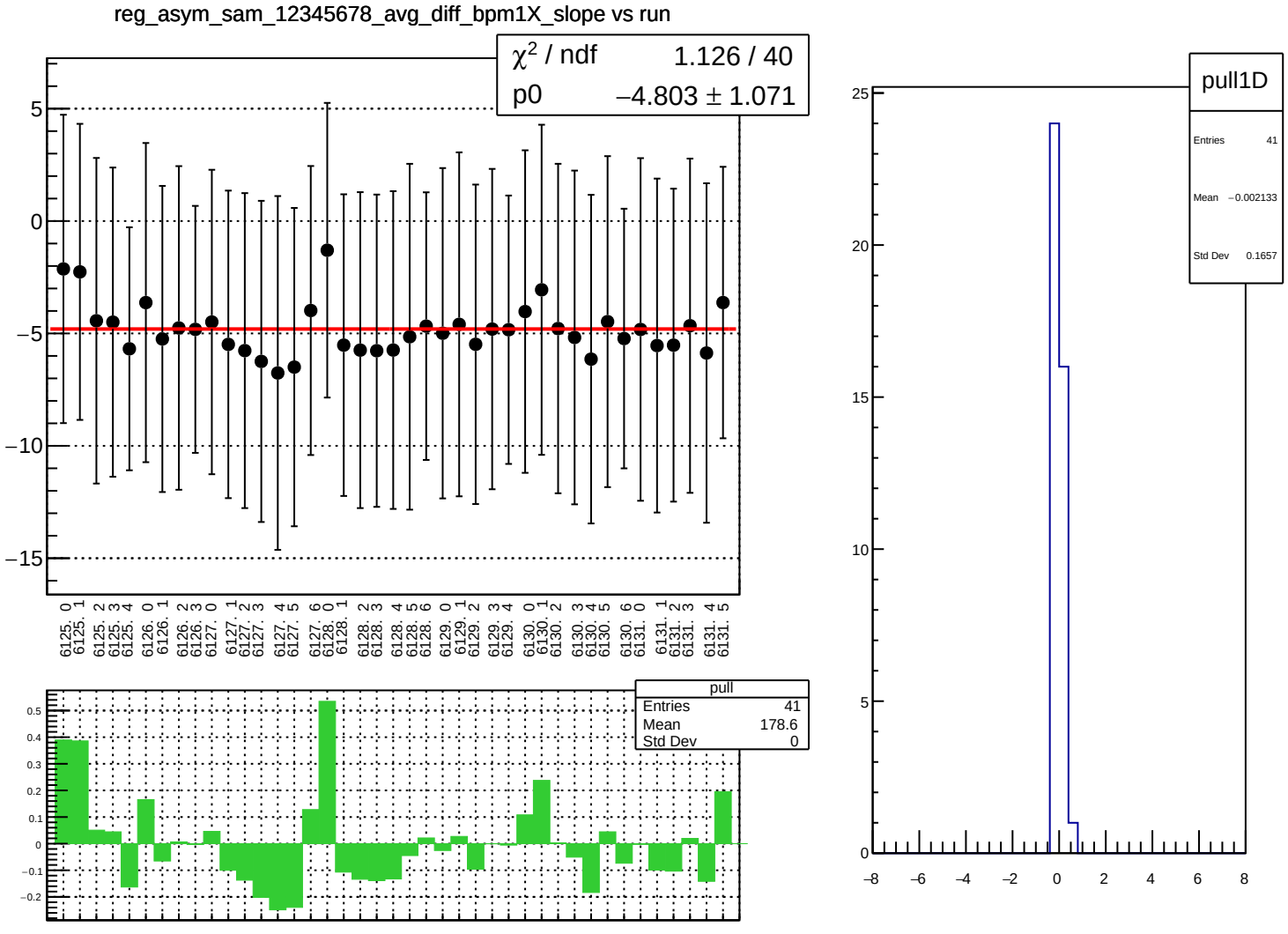

pull1D
Entries 41
Mean 0.004572
Std Dev 0.178

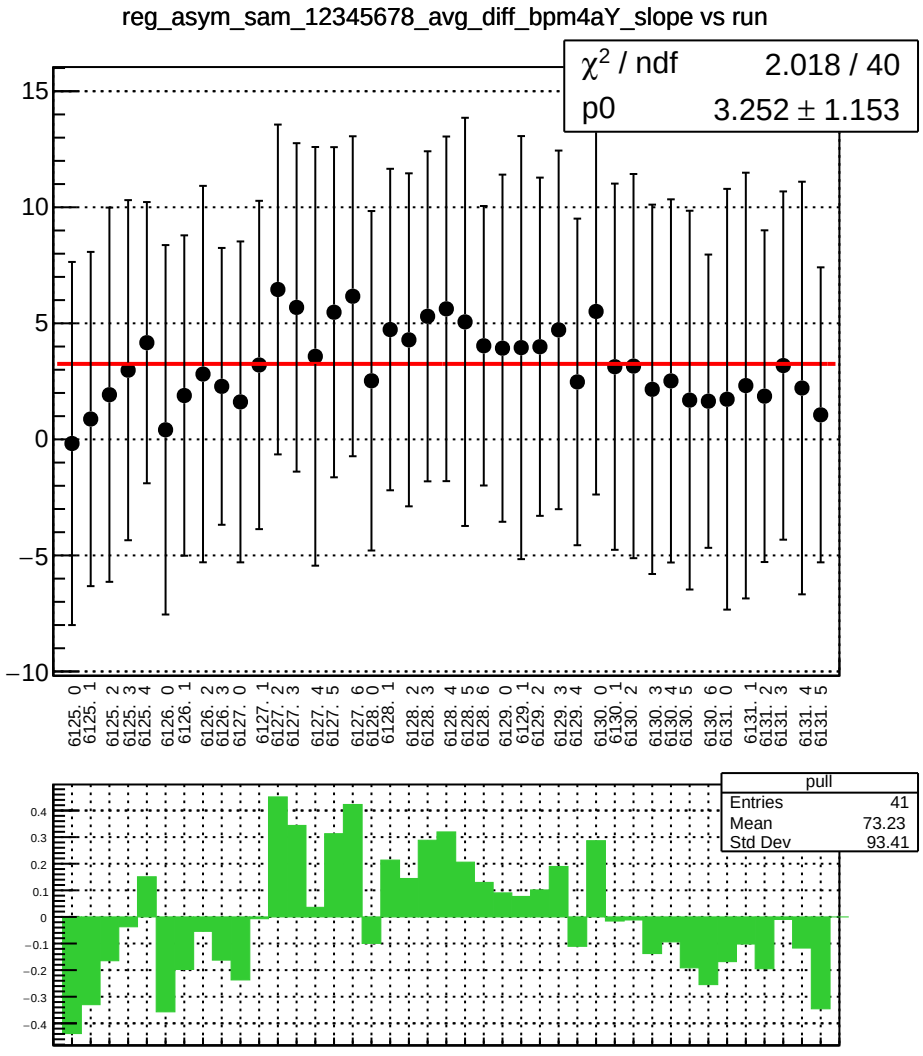

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.8417 / 40
p0 25.06 ± 0.4744
30
28
26
24
22
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 124
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 41
Mean 0.001939
Std Dev 0.1433
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

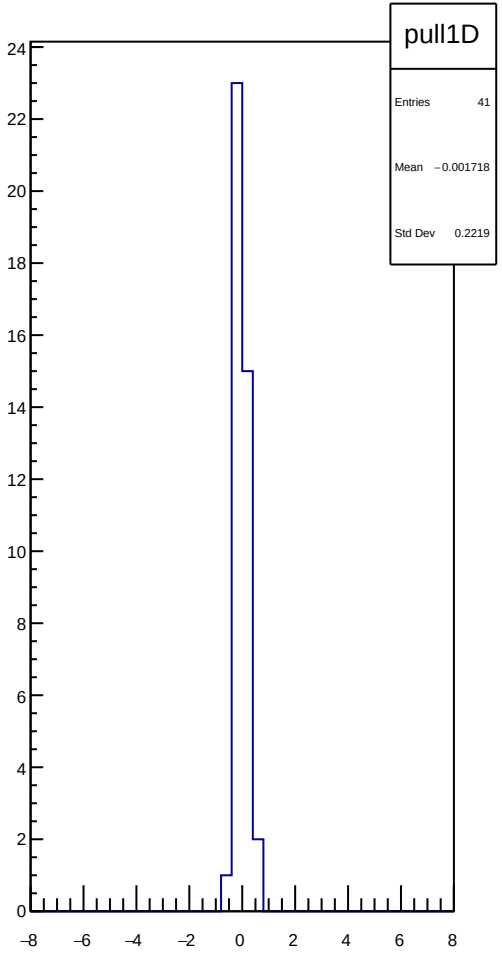

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.906 / 40
p0 −6.866 ± 0.4438
pull
Entries 41
Mean 228.3
Std Dev 0

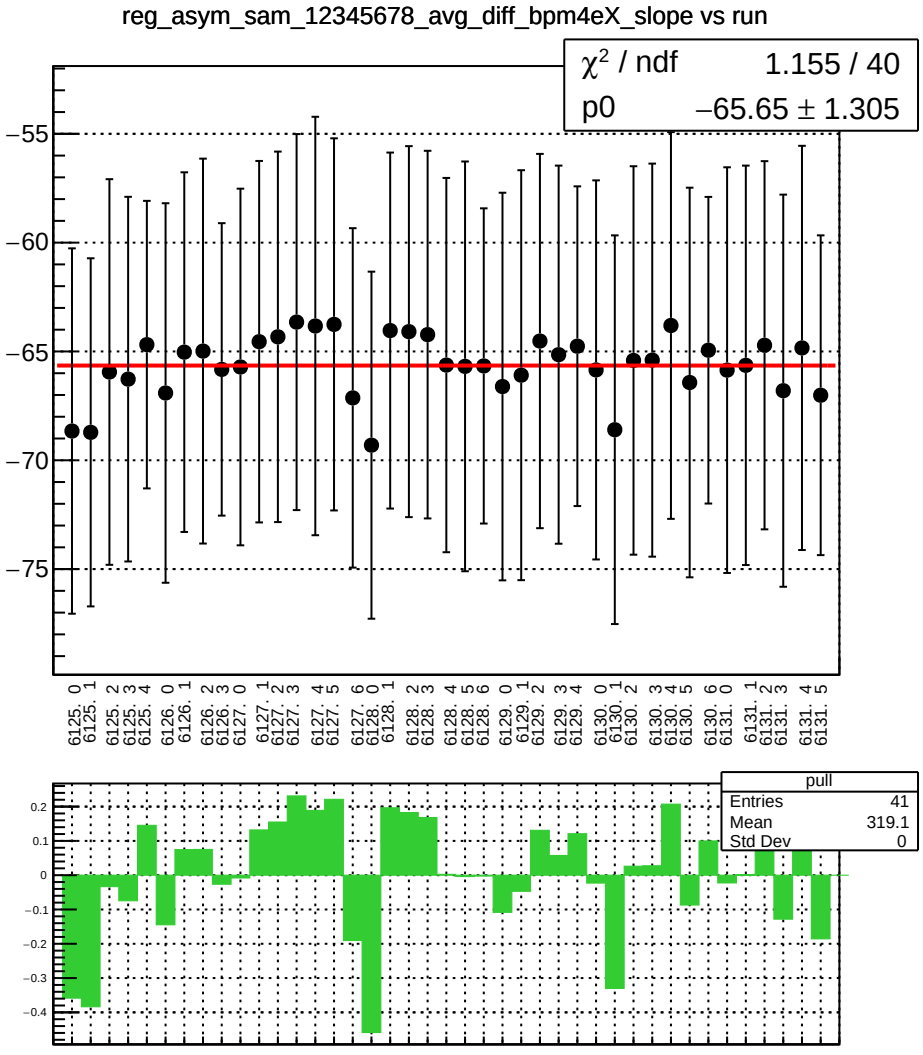

pull1D
Entries 41
Mean −0.003217
Std Dev 0.2156

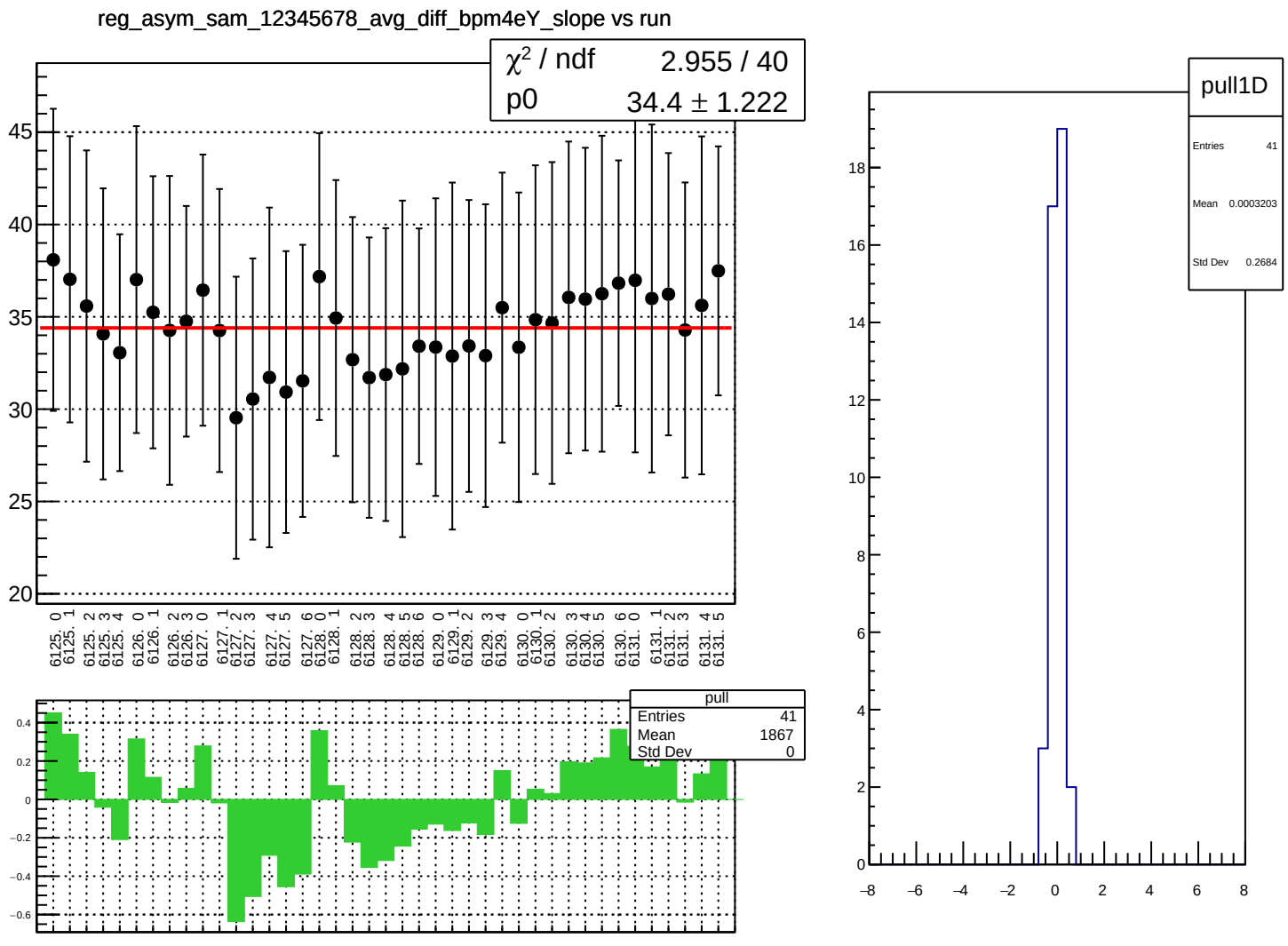

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 1.769 / 40
p0 0.2322 ± 0.0373
pull
Entries 41
Mean 813.6
Std Dev 0
pull1D
Entries 41
Mean −0.0005798
Std Dev 0.2077

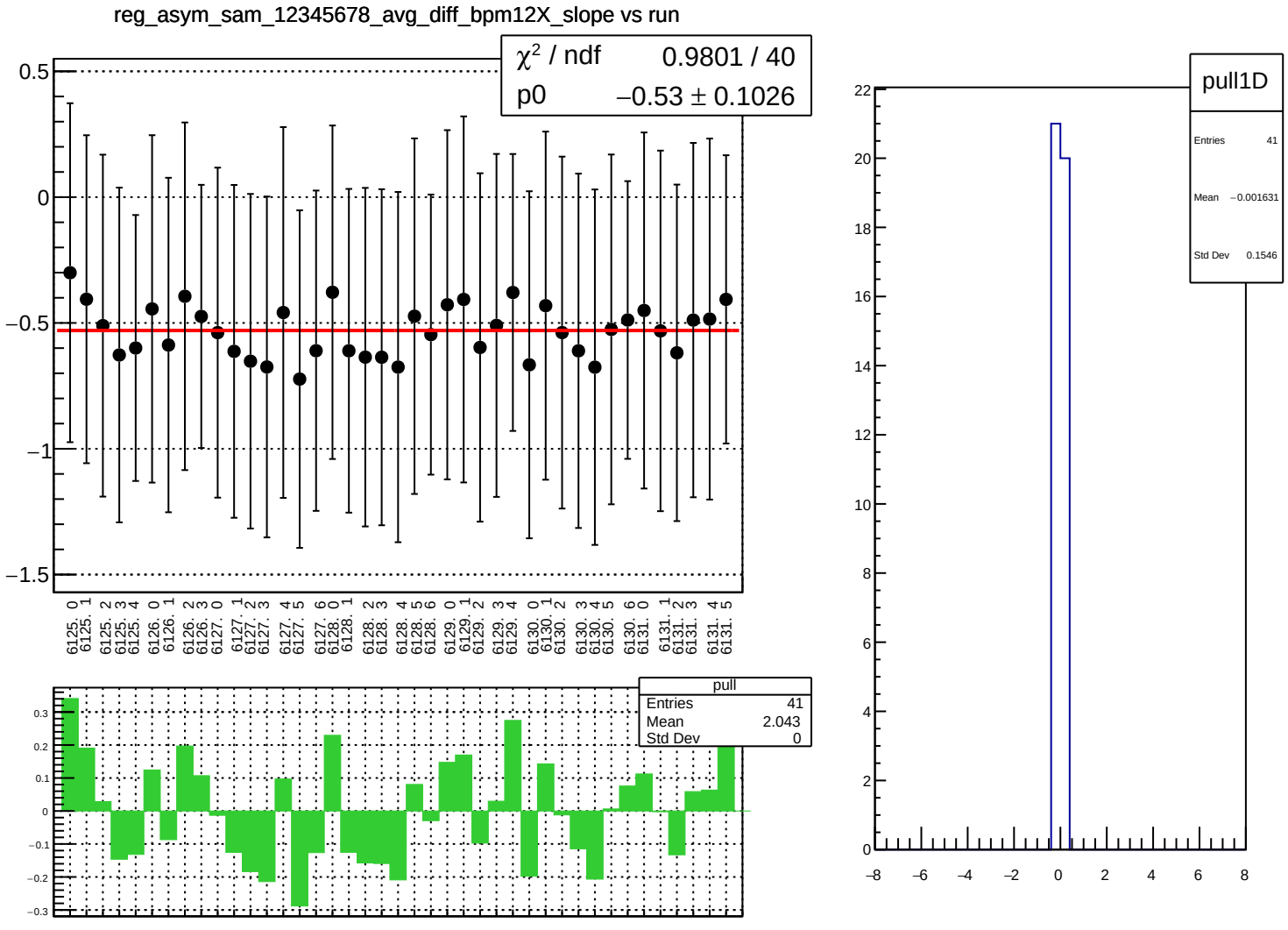

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 1.126 / 40
p0 −4.803 ± 1.071
pull
Entries 41
Mean 178.6
Std Dev 0
pull1D
Entries 41
Mean −0.002133
Std Dev 0.1657

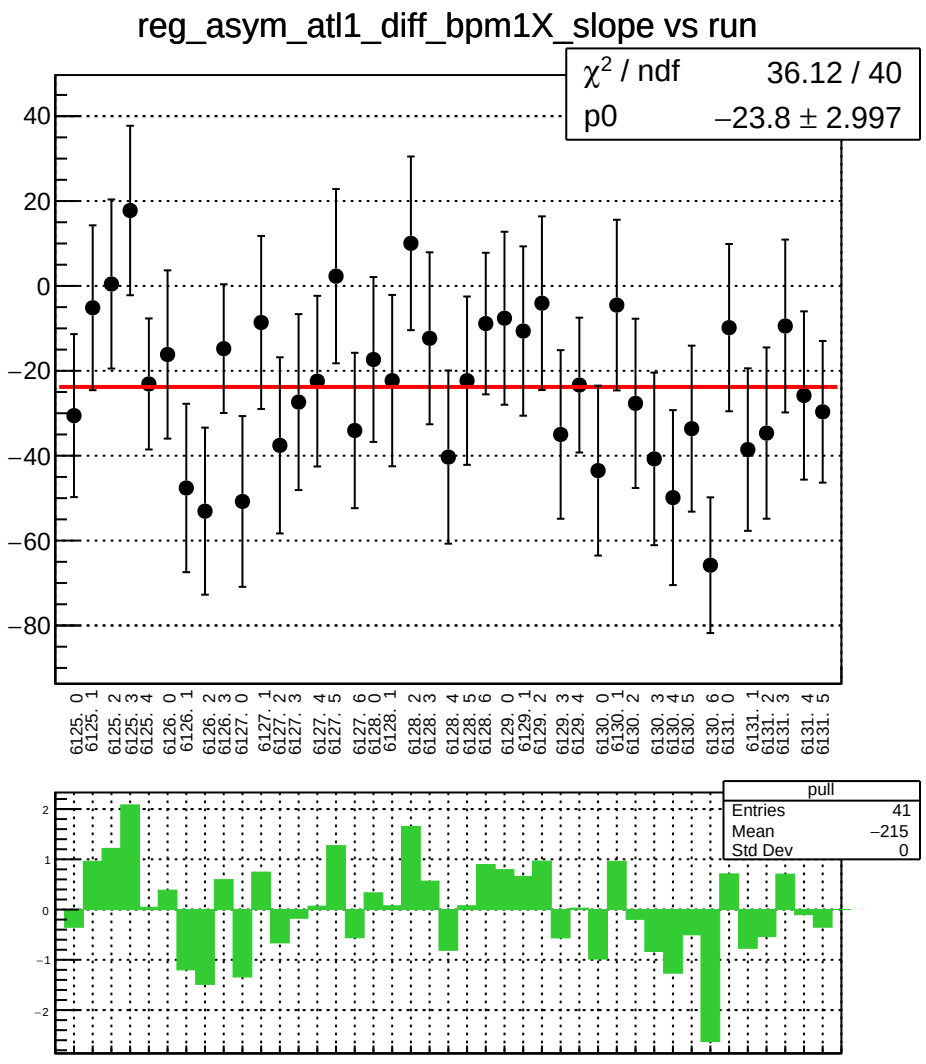

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.018 / 40
p0 3.252 ± 1.153
pull
Entries 41
Mean 73.23
Std Dev 93.41

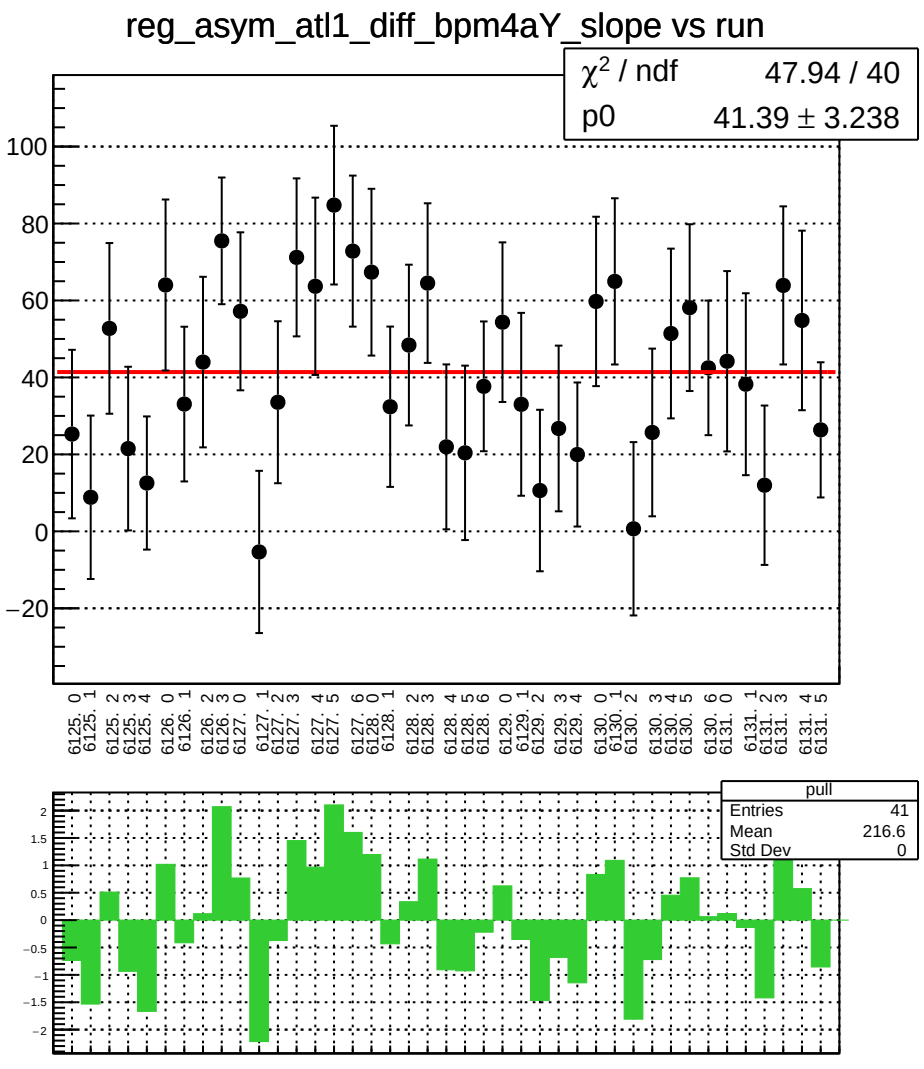

pull1D
Entries 41
Mean −0.001718
Std Dev 0.2219

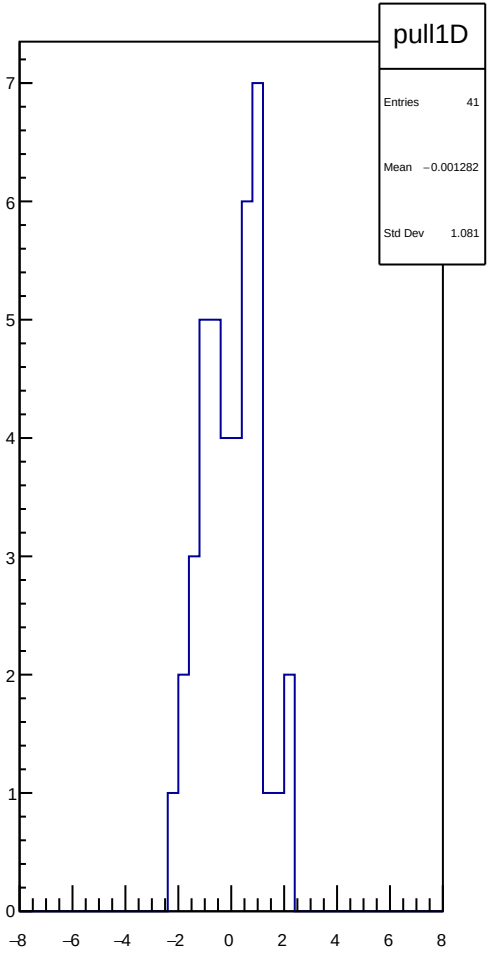

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.155 / 40
p0 −65.65 ± 1.305
−55
−60
−65
−70
−75
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 319.1
Std Dev 0
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 41
Mean 0.0006278
Std Dev 0.1679
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

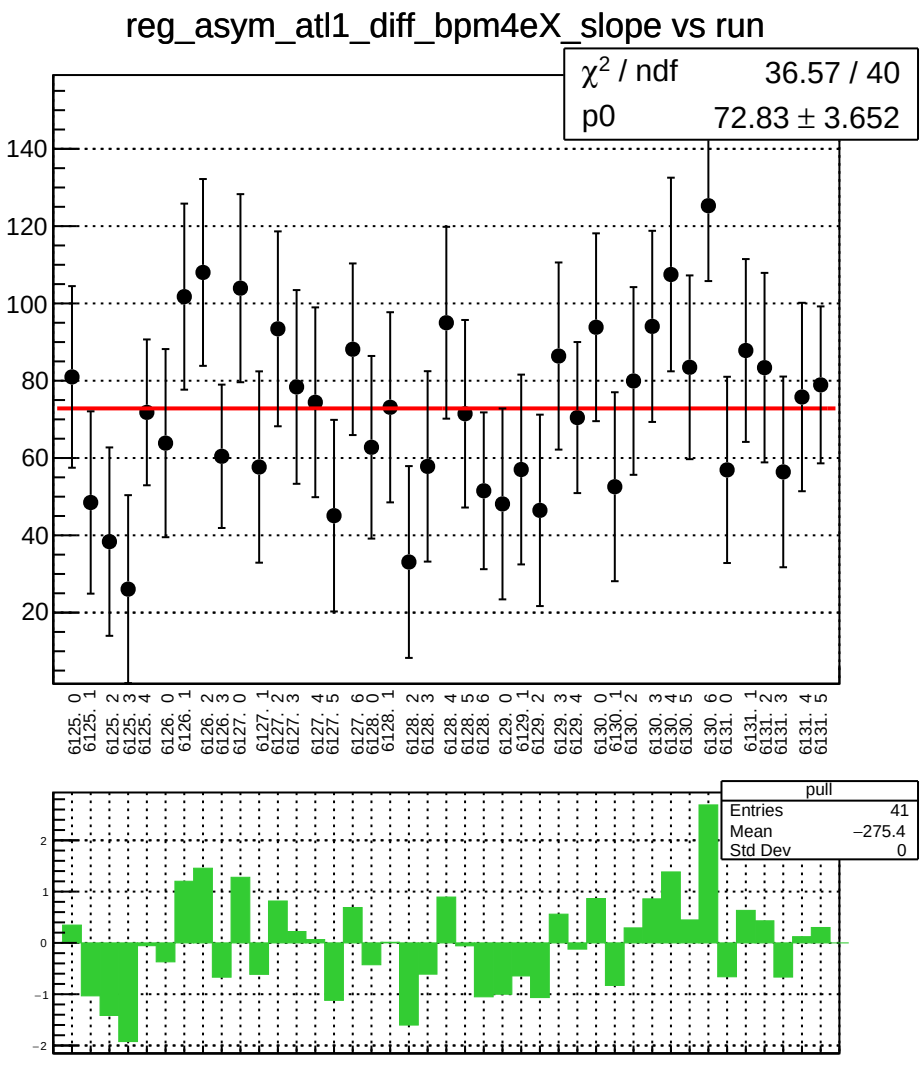

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.955 / 40
p0 34.4 ± 1.222
pull
Entries 41
Mean 1867
Std Dev 0
pull1D
Entries 41
Mean 0.0003203
Std Dev 0.2684

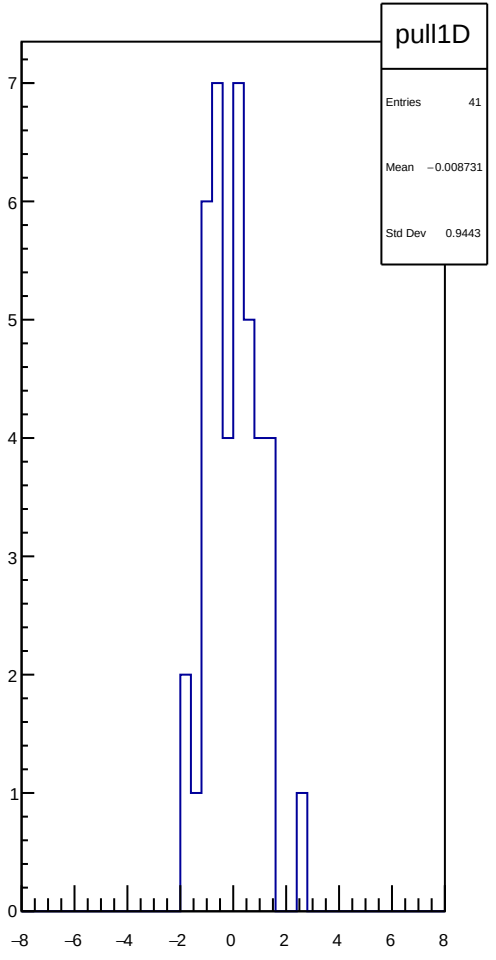

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 0.9801 / 40
p0 −0.53 ± 0.1026
0.5
0
−0.5
−1
−1.5
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 2.043
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 41
Mean −0.001631
Std Dev 0.1546
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

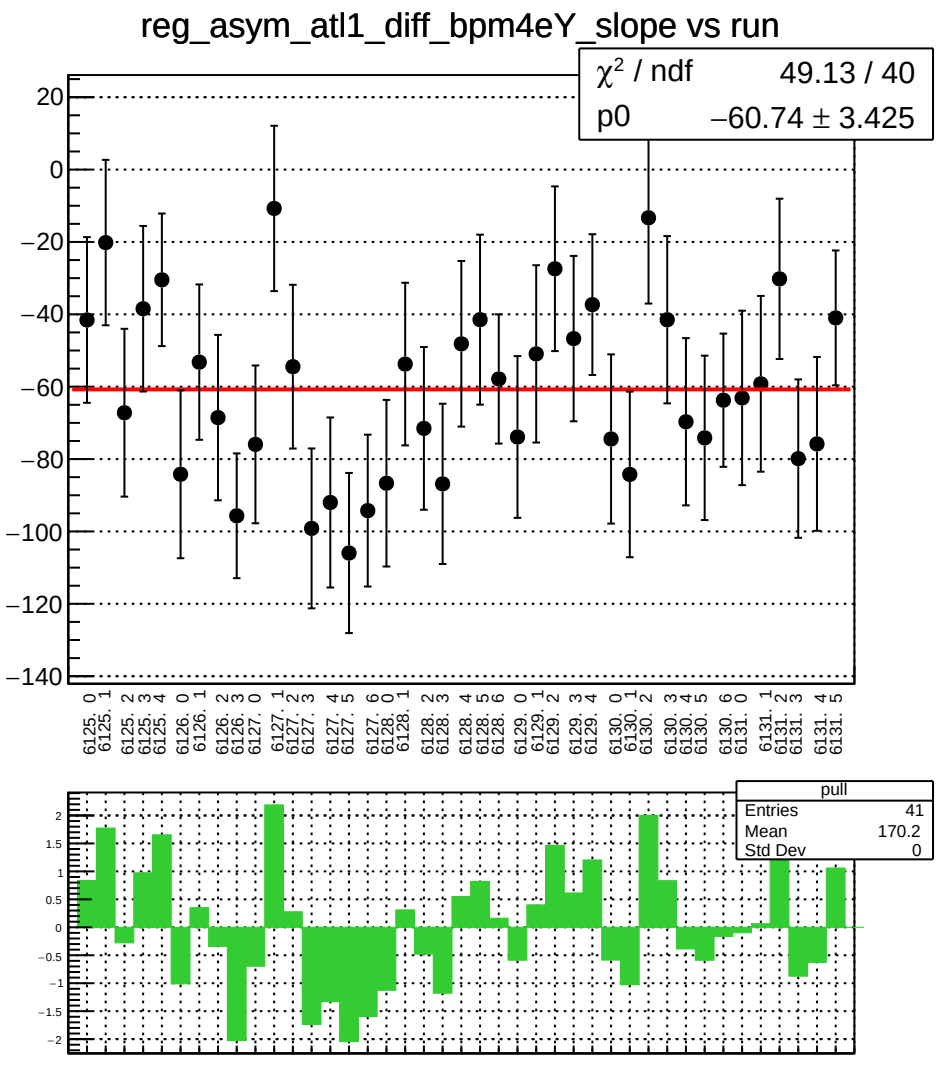

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 36.12 / 40
p0 −23.8 ± 2.997
40
20
0
−20
−40
−60
−80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −215
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01135
Std Dev 0.9386
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

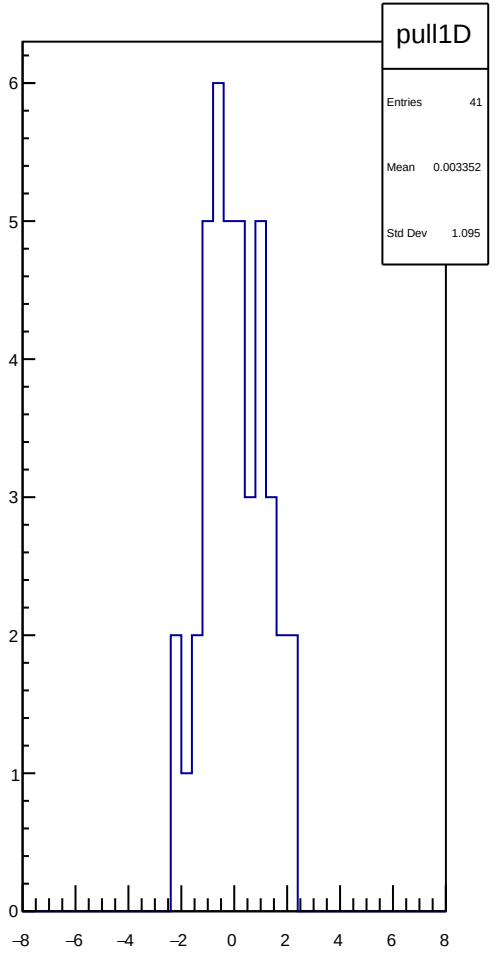

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 47.94 / 40
p0 41.39 ± 3.238
pull
Entries 41
Mean 216.6
Std Dev 0

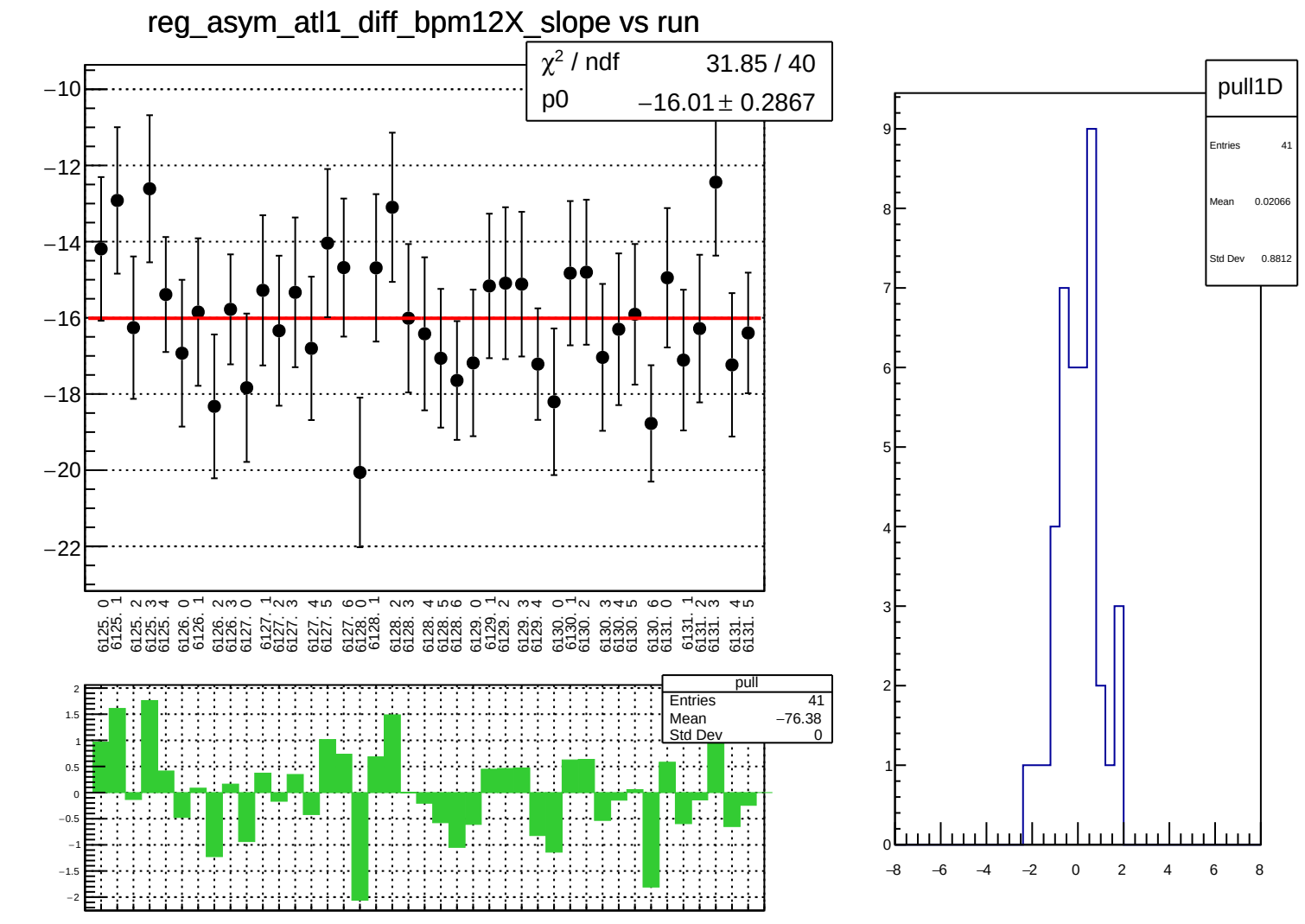

pull1D
Entries 41
Mean −0.001282
Std Dev 1.081

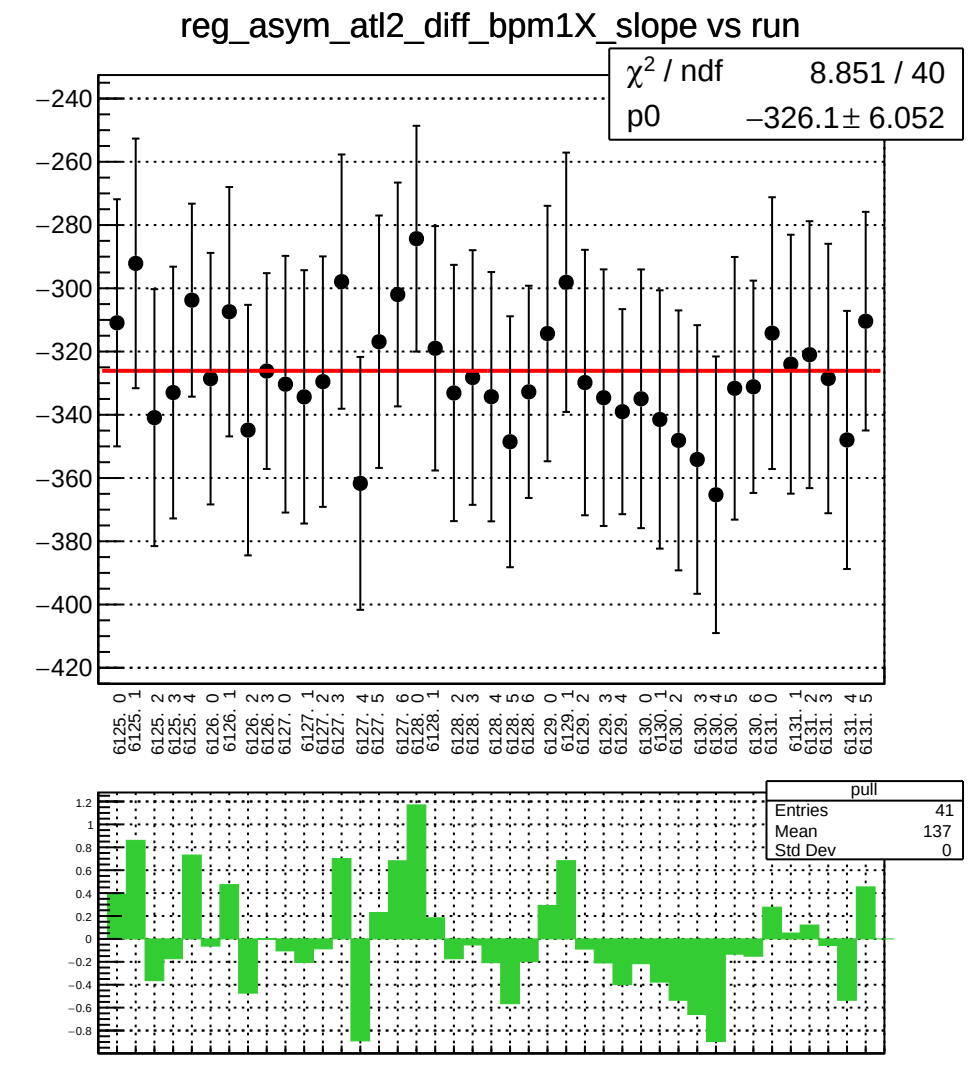

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 36.57 / 40
p0 72.83 ± 3.652
140
120
100
80
60
40
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −275.4
Std Dev 0
2
1
0
−1
−2

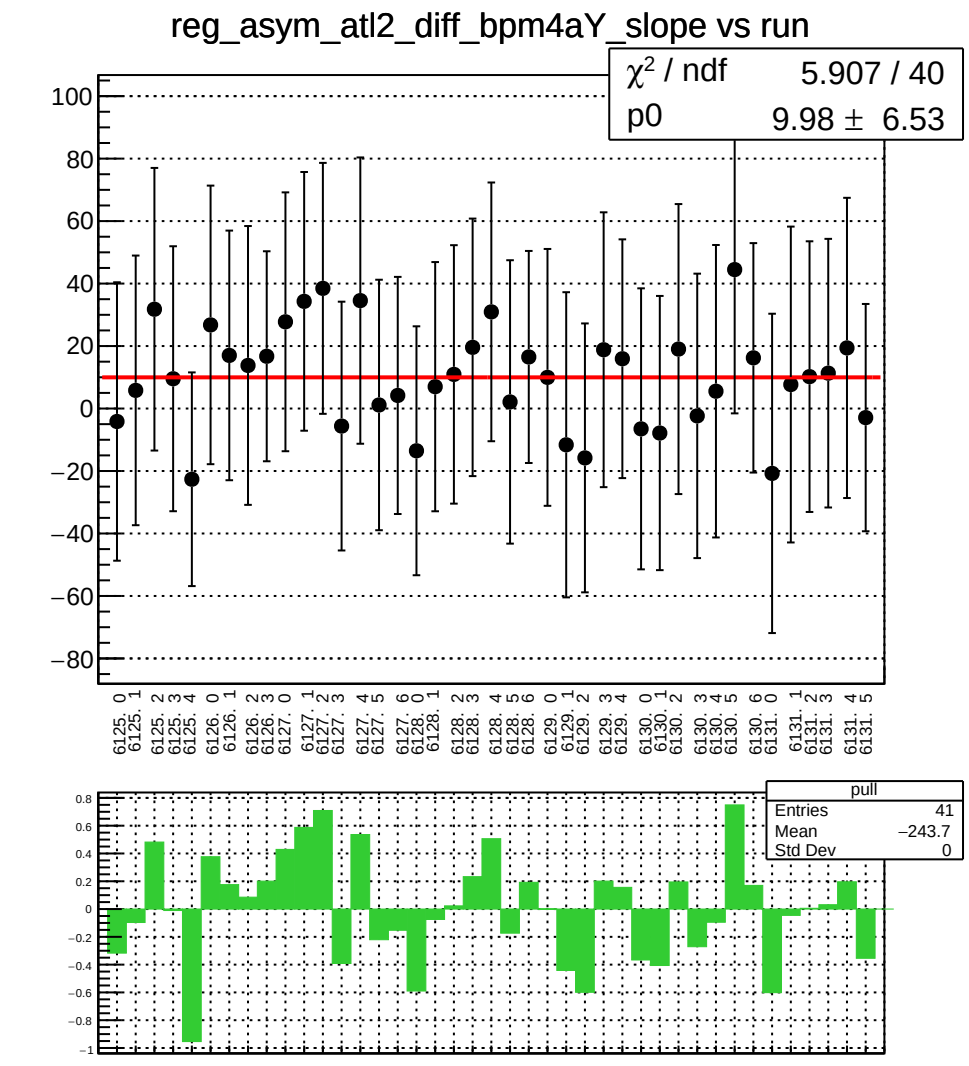

pull1D
Entries 41
Mean −0.008731
Std Dev 0.9443
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

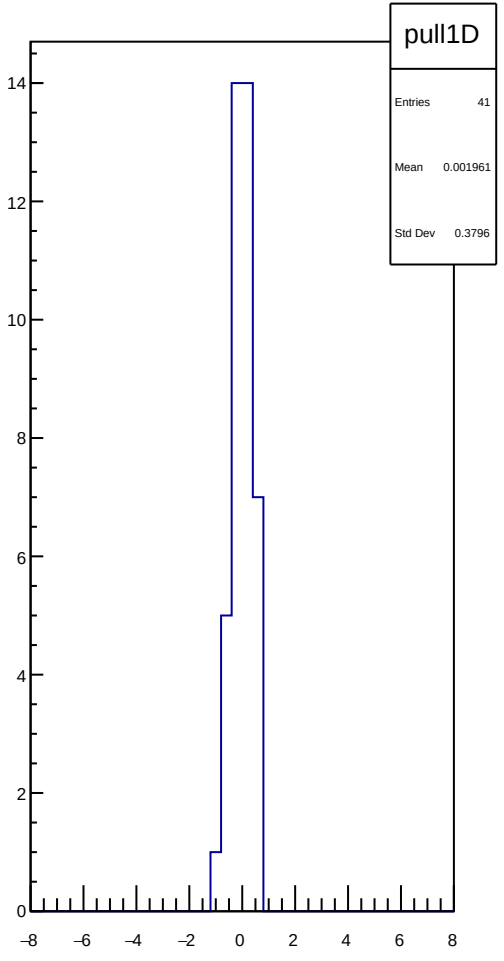

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 49.13 / 40
p0 −60.74 ± 3.425
pull
Entries 41
Mean 170.2
Std Dev 0

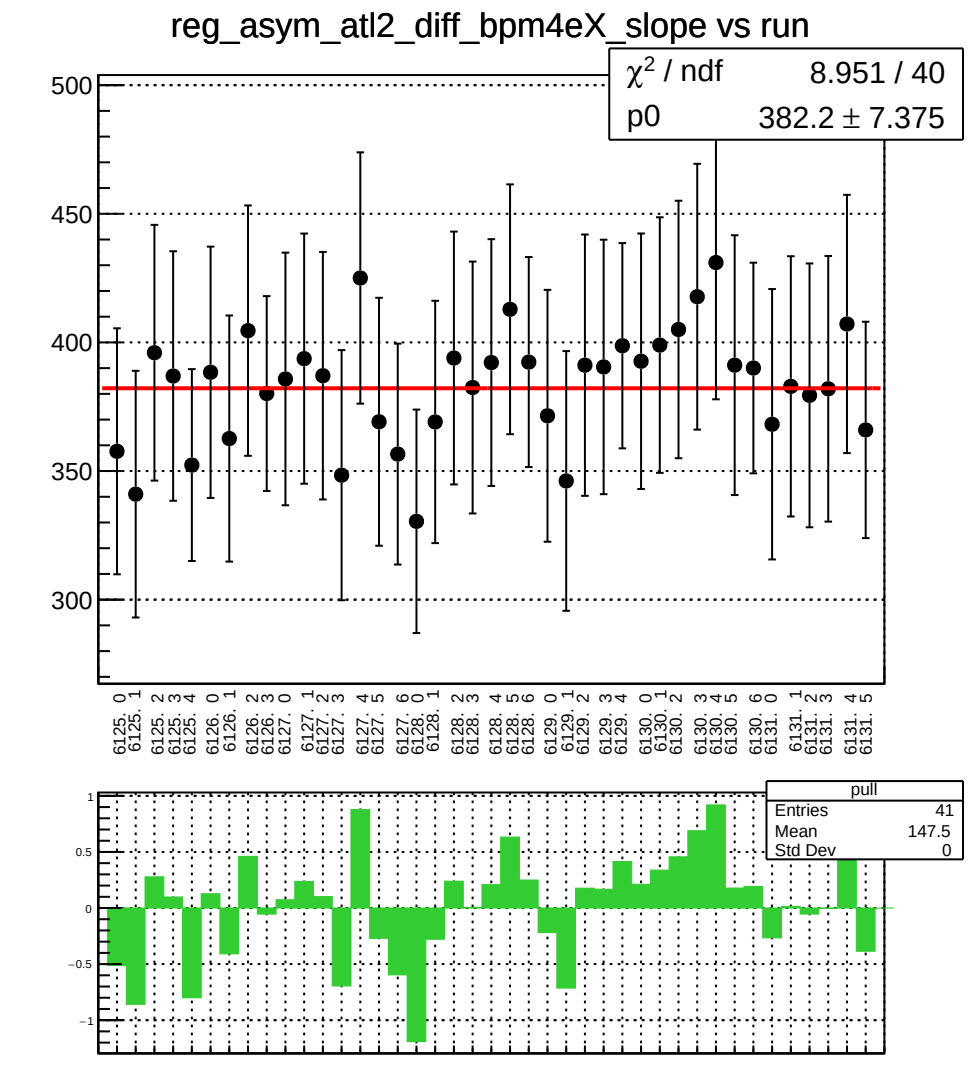

pull1D
Entries 41
Mean 0.003352
Std Dev 1.095

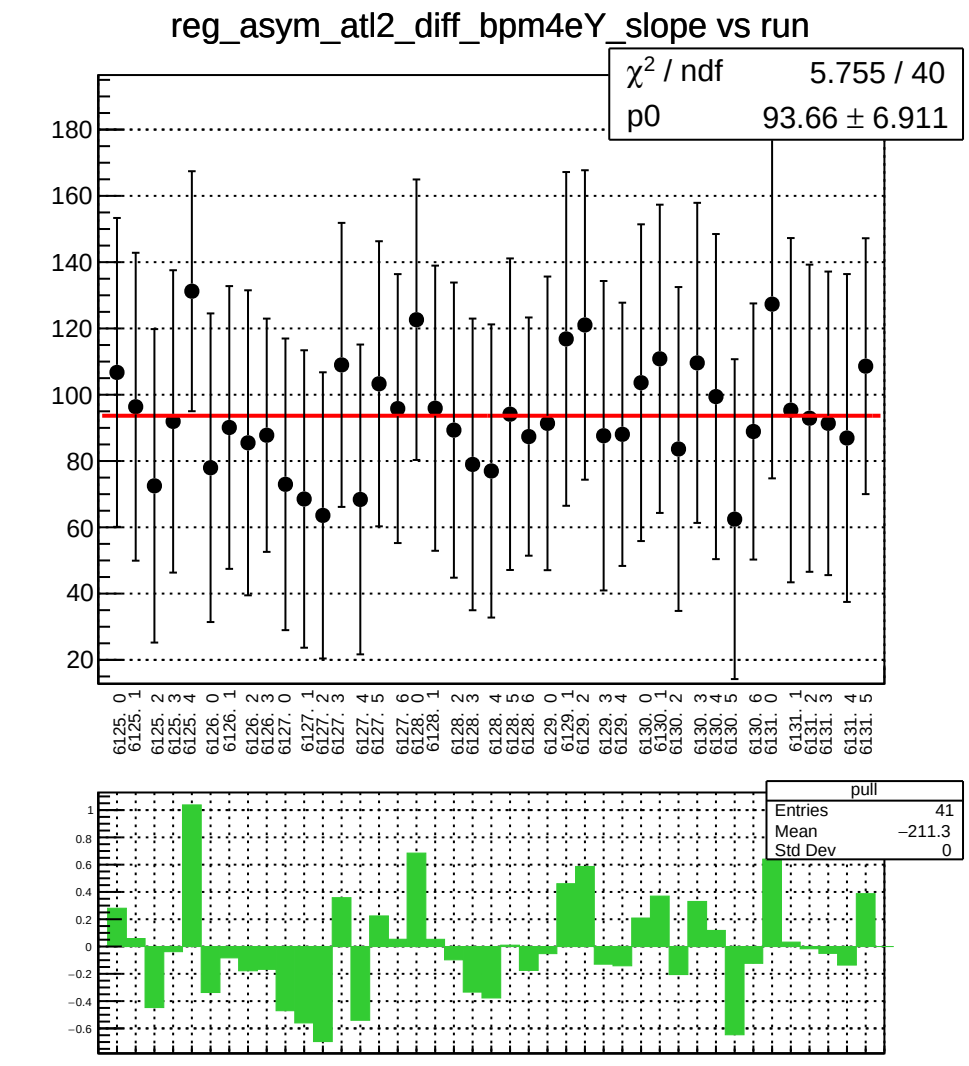

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 31.85 / 40
p0 −16.01 ± 0.2867
pull
Entries 41
Mean −76.38
Std Dev 0
pull1D
Entries 41
Mean 0.02066
Std Dev 0.8812

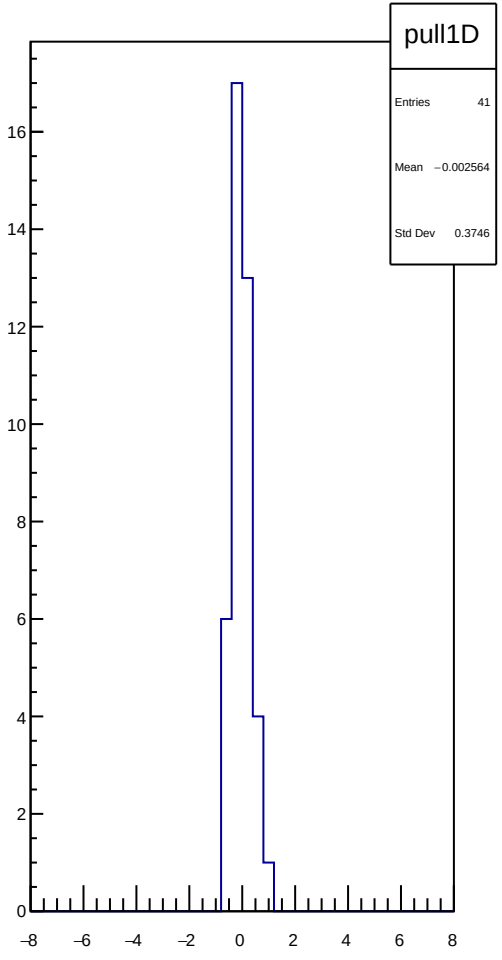

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 8.851 / 40
p0 −326.1± 6.052
pull
Entries 41
Mean 137
Std Dev 0
pull1D
Entries 41
Mean −0.01259
Std Dev 0.4645

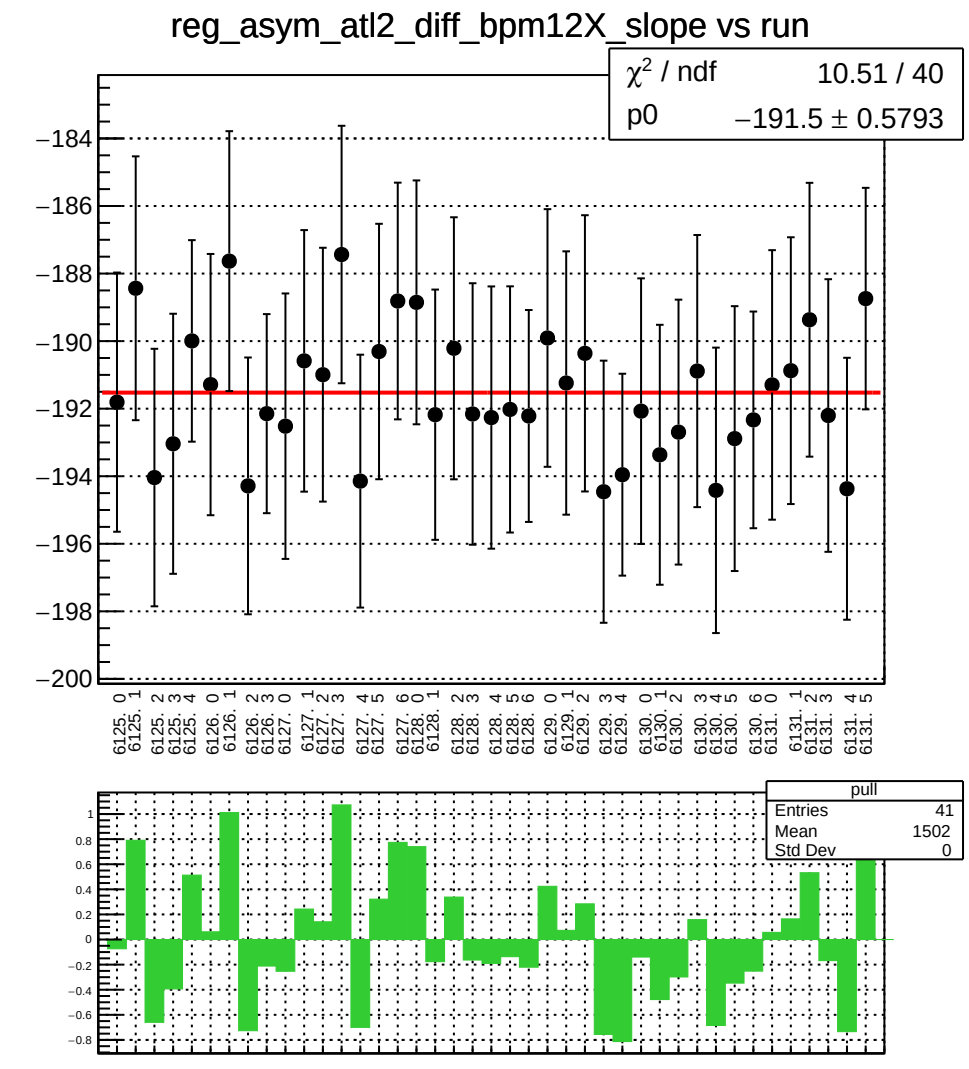

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 5.907 / 40
p0 9.98 ± 6.53
pull
Entries 41
Mean −243.7
Std Dev 0

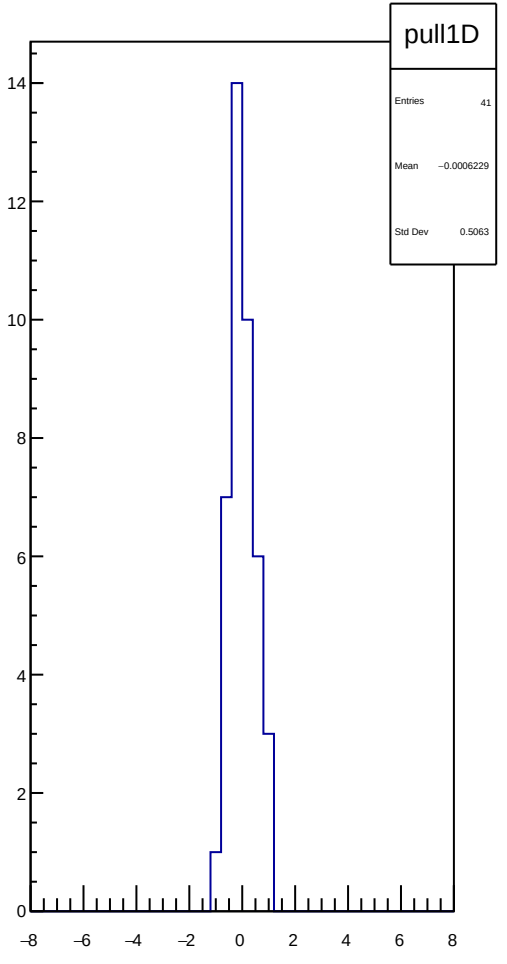

pull1D
Entries 41
Mean 0.001961
Std Dev 0.3796

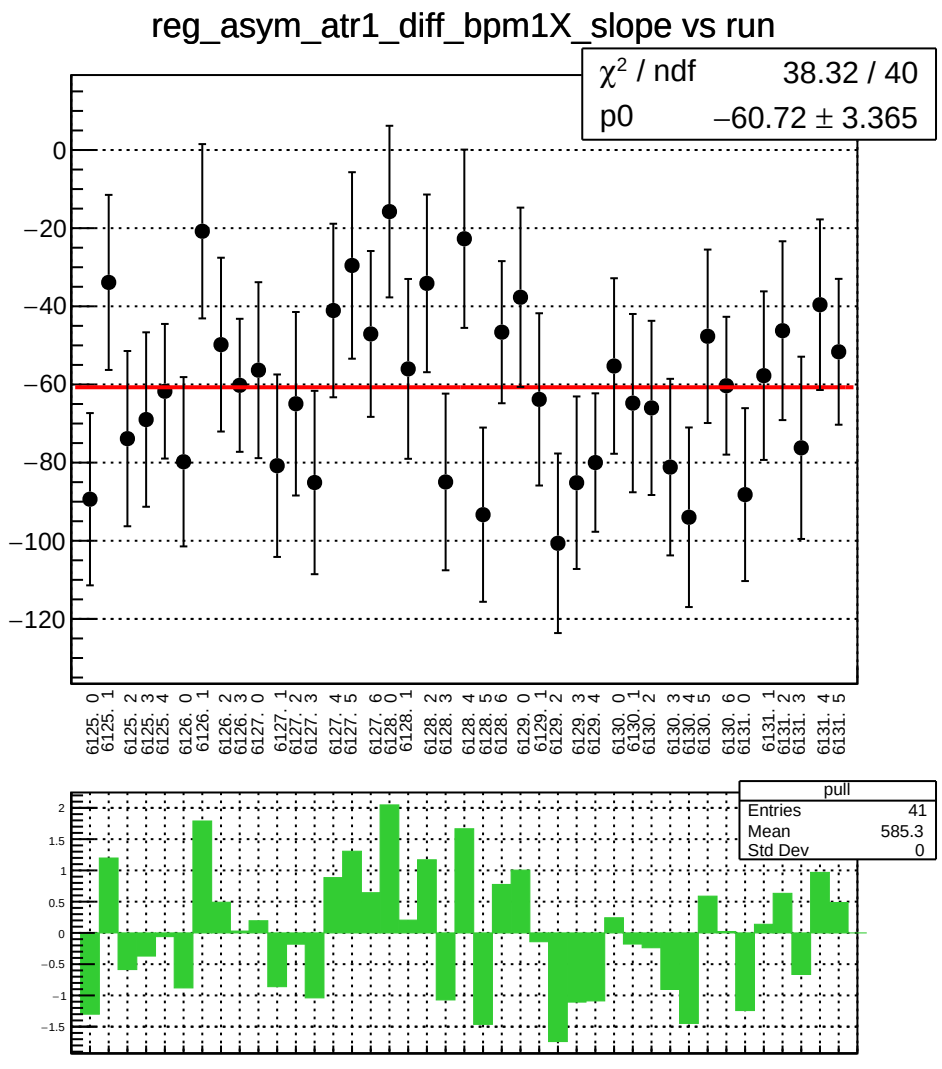

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 8.951 / 40
p0 382.2 ± 7.375
500
450
400
350
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 147.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.01317
Std Dev 0.4671
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

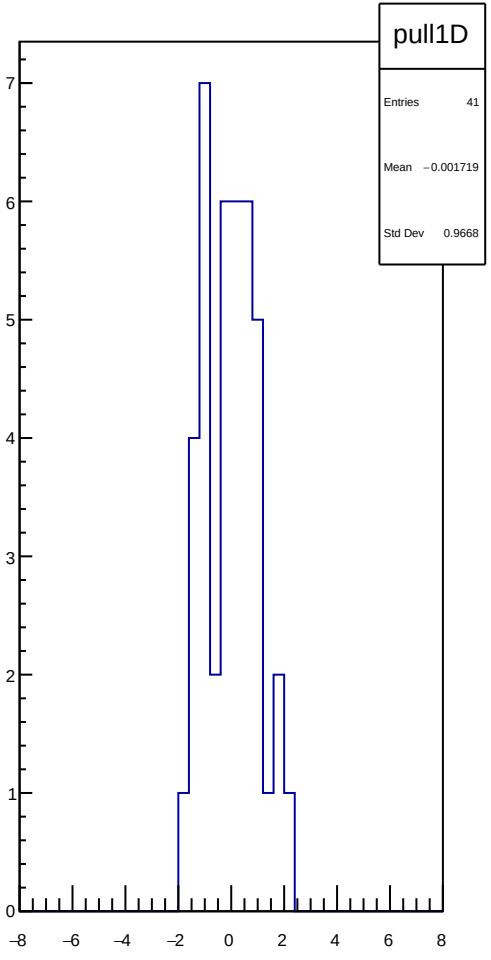

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 5.755 / 40
p0 93.66 ± 6.911
pull
Entries 41
Mean −211.3
Std Dev 0

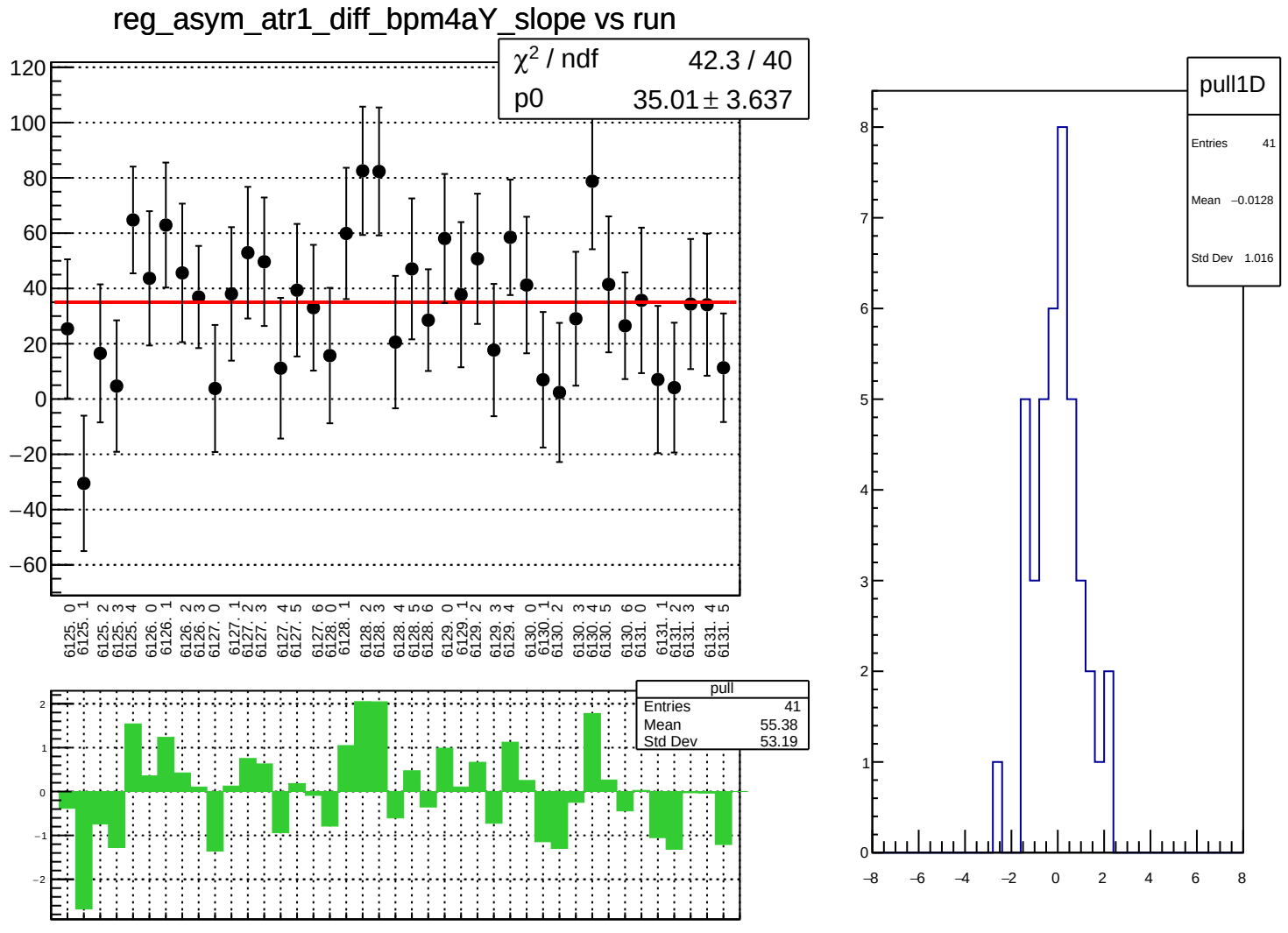

pull1D
Entries 41
Mean −0.002564
Std Dev 0.3746

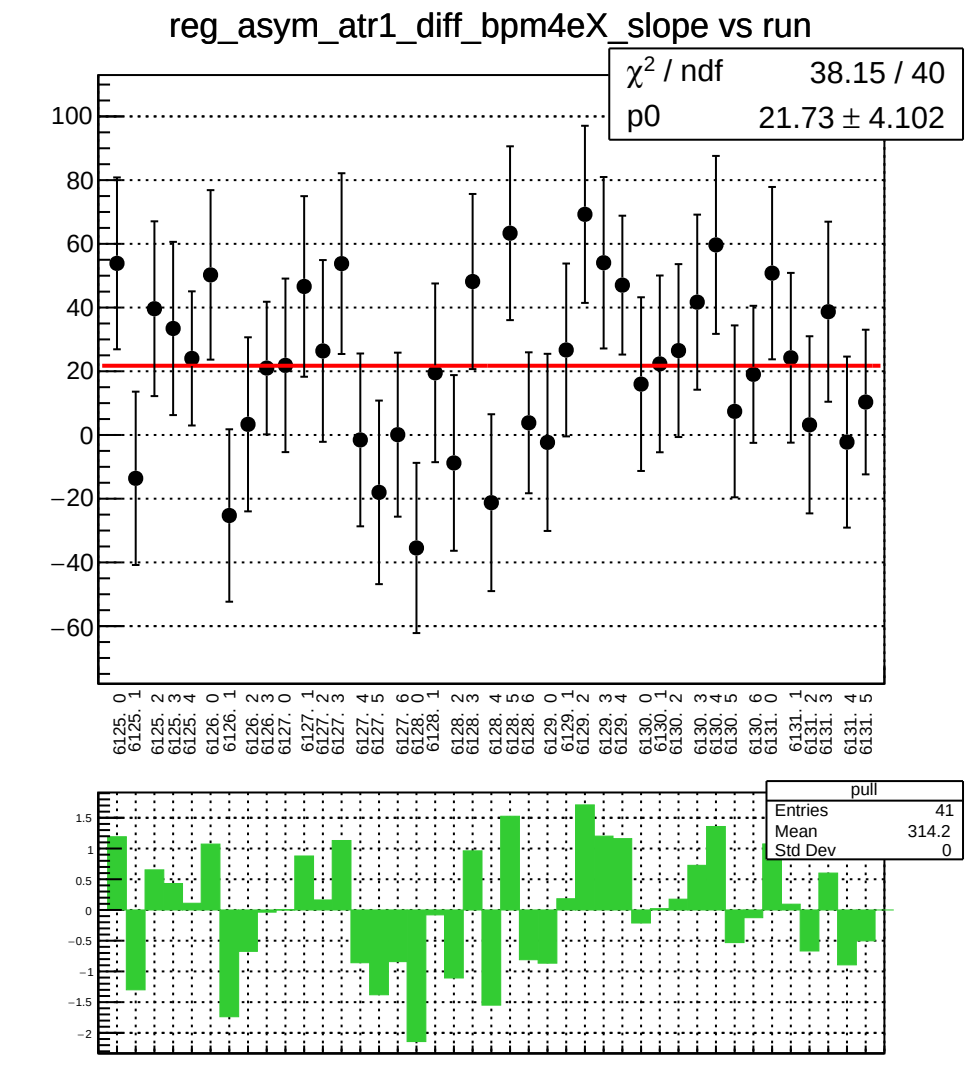

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 10.51 / 40
p0 −191.5 ± 0.5793
pull
Entries 41
Mean 1502
Std Dev 0

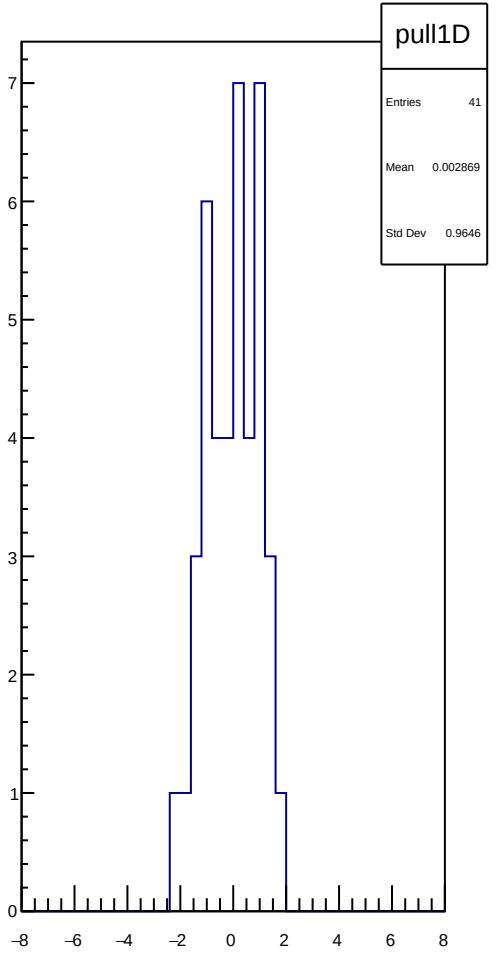

pull1D
Entries 41
Mean −0.0006229
Std Dev 0.5063

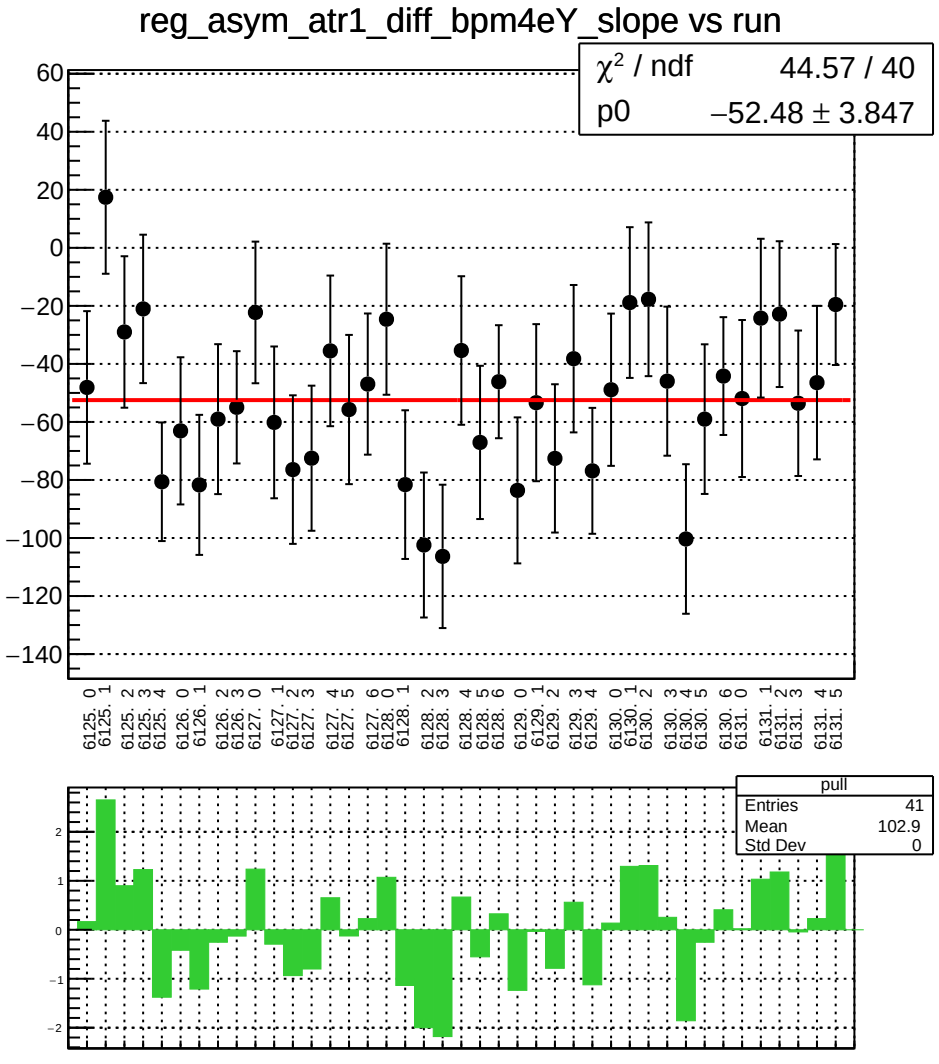

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 38.32 / 40
p0 −60.72 ± 3.365
0
−20
−40
−60
−80
−100
−120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 585.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

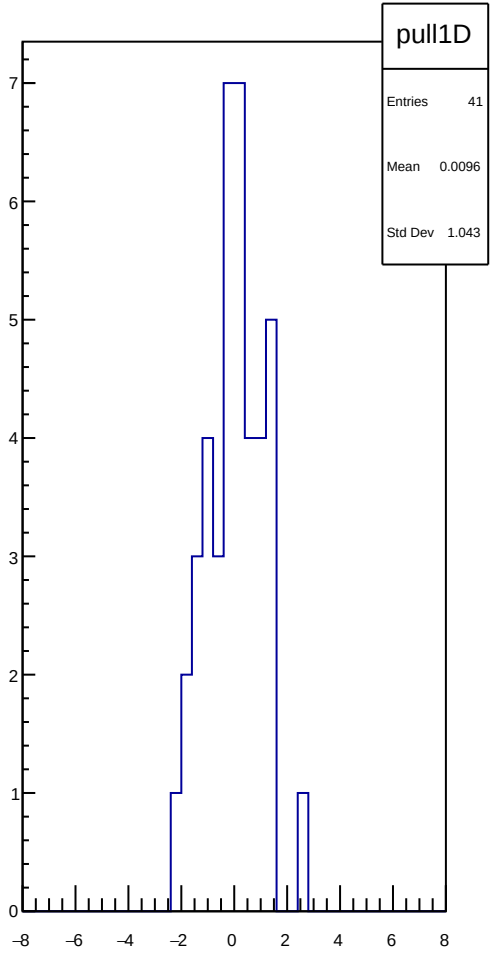

pull1D
Entries 41
Mean −0.001719
Std Dev 0.9668
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

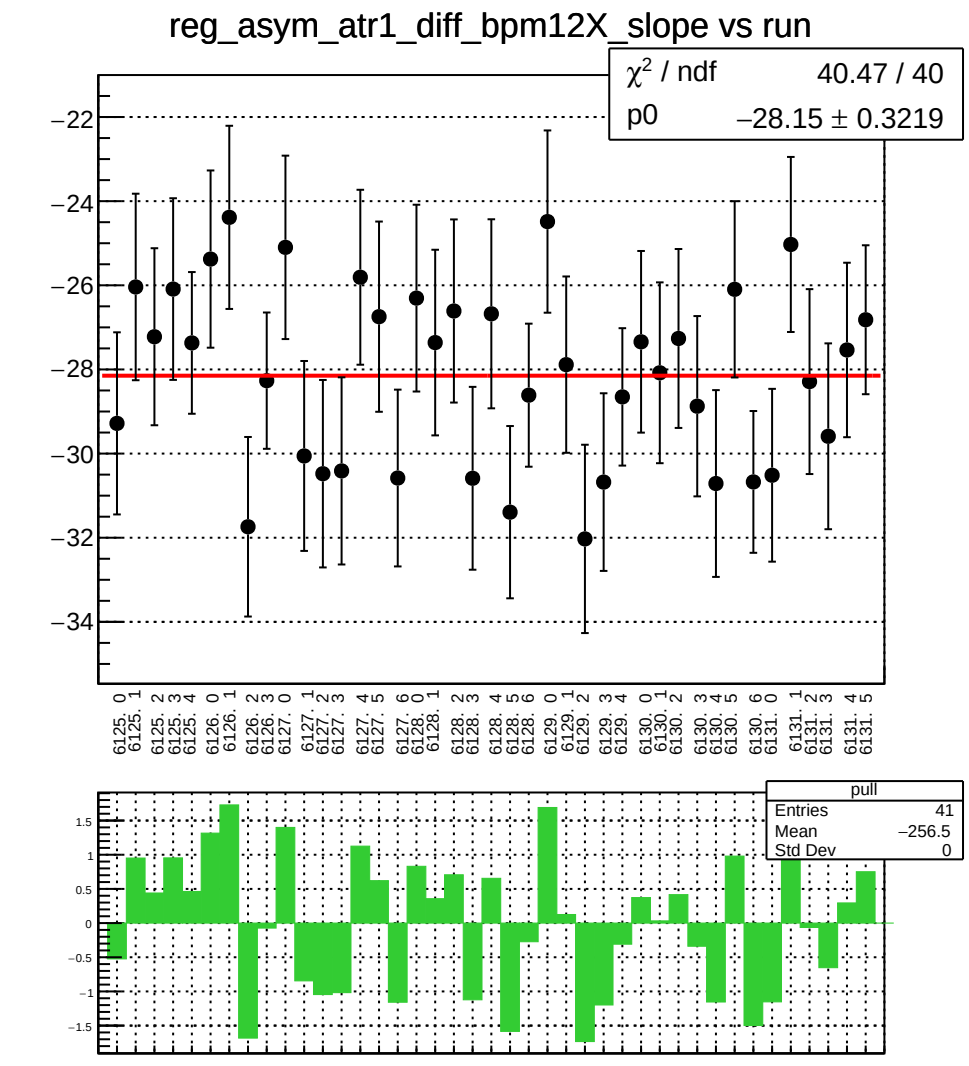

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 42.3 / 40
p0 35.01 ± 3.637
pull
Entries 41
Mean 55.38
Std Dev 53.19
pull1D
Entries 41
Mean −0.0128
Std Dev 1.016

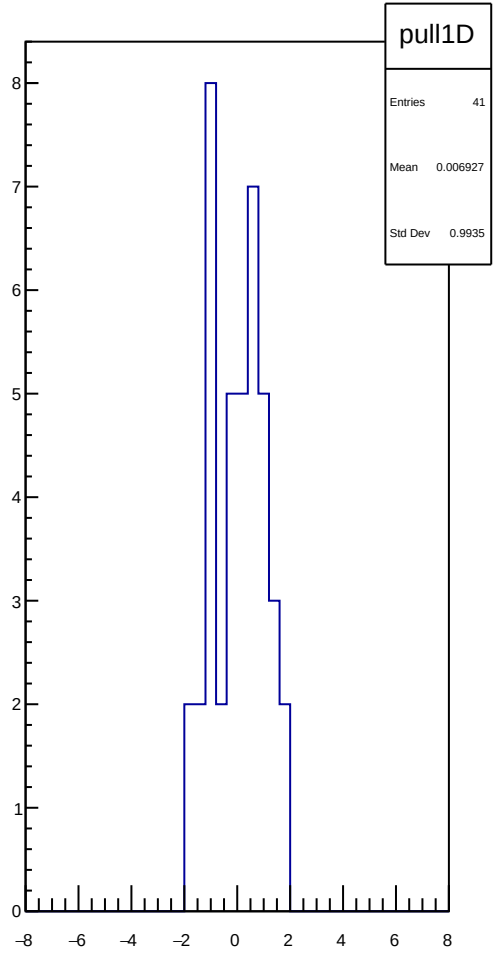

reg_asym_atr1_diff_bpm4eX_slope vs run
χ^2 / ndf 38.15 / 40
p0 21.73 ± 4.102
100
80
60
40
20
0
−20
−40
−60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 314.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

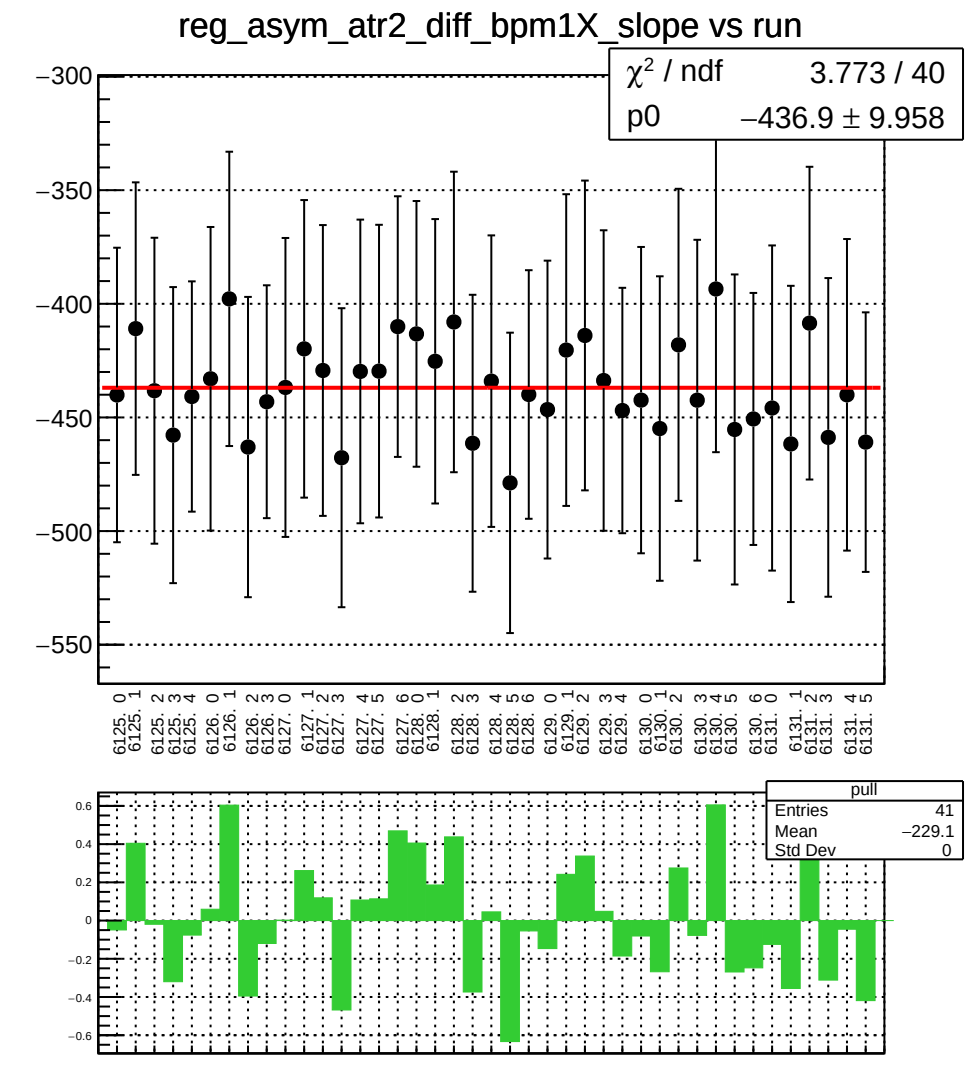

pull1D
Entries 41
Mean 0.002869
Std Dev 0.9646
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

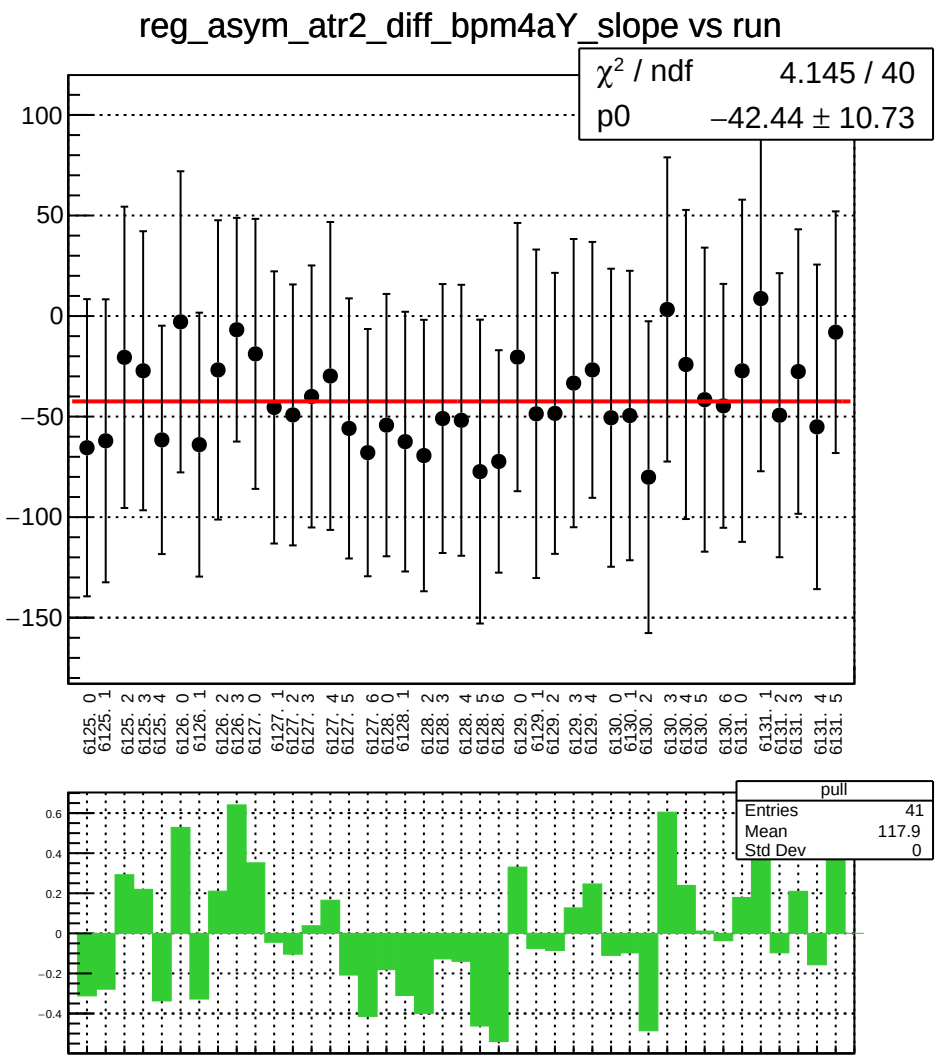

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 44.57 / 40
p0 −52.48 ± 3.847
pull
Entries 41
Mean 102.9
Std Dev 0

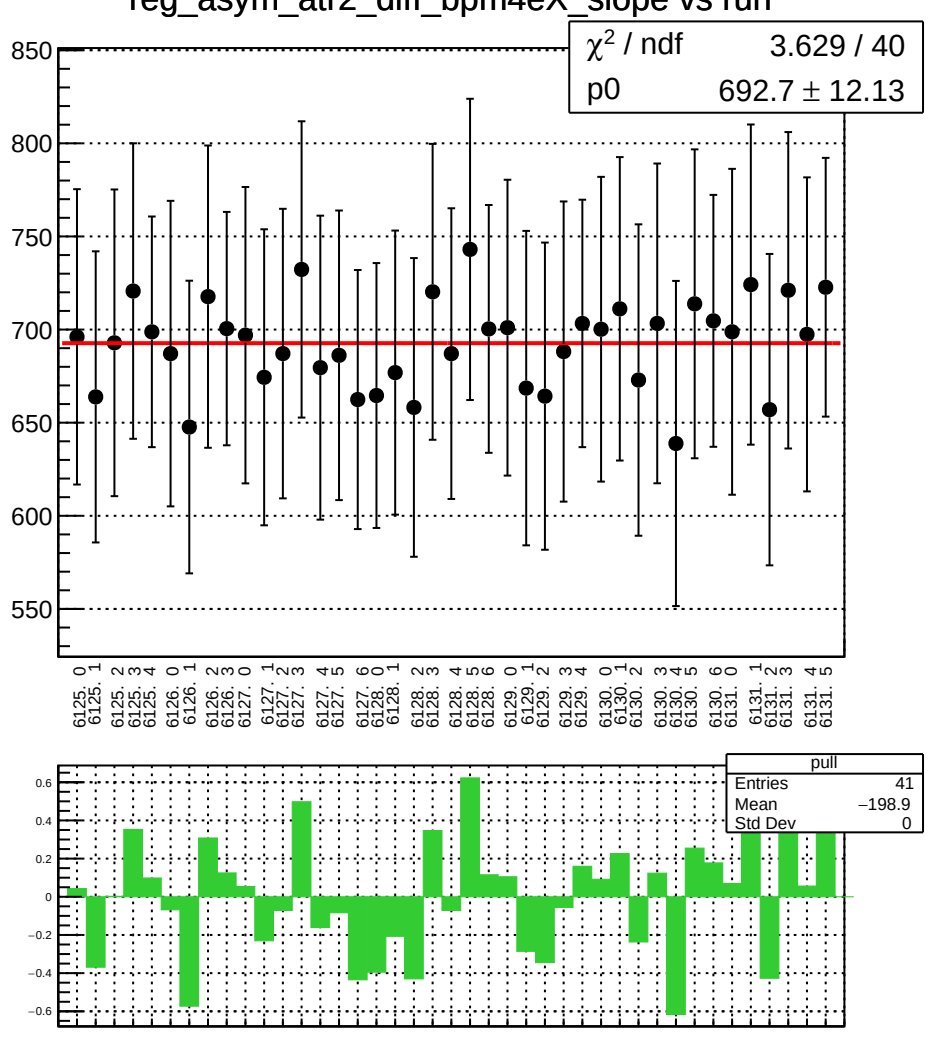

pull1D
Entries 41
Mean 0.0096
Std Dev 1.043

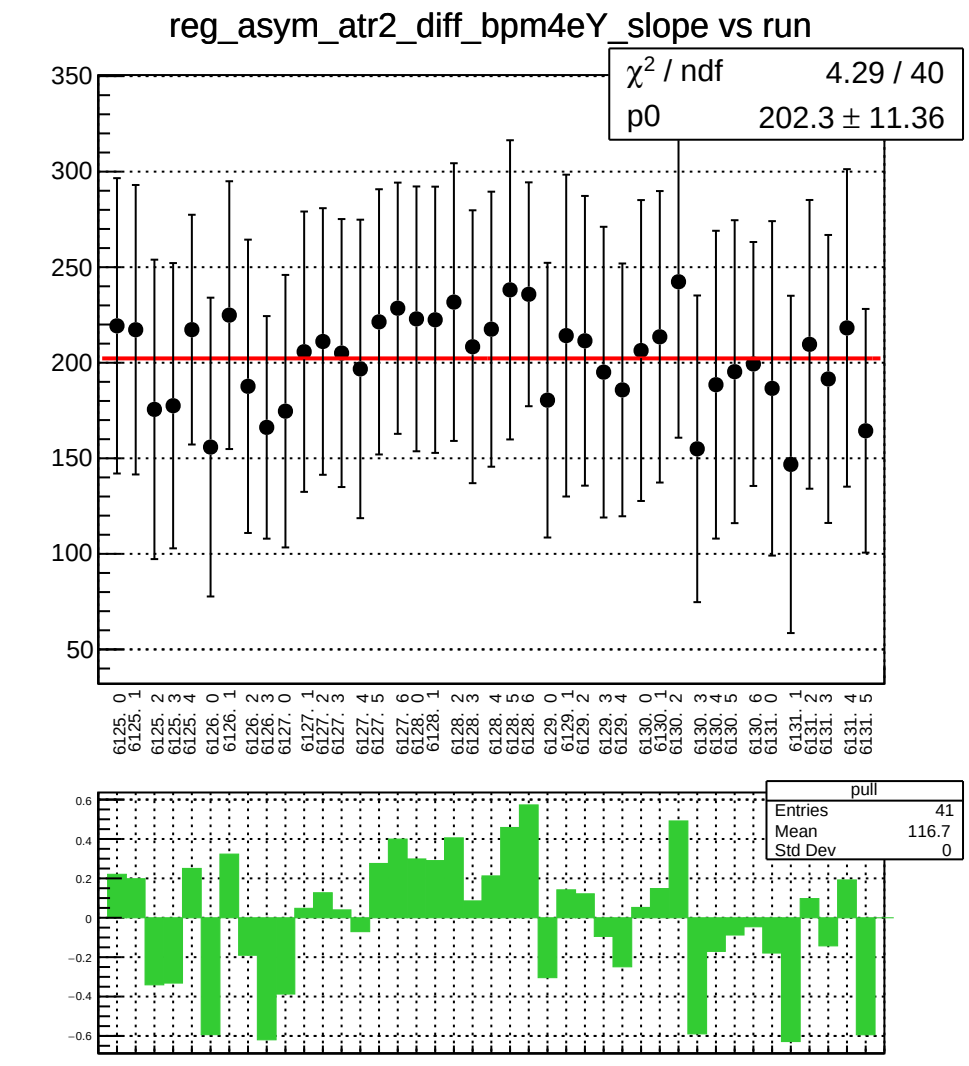

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 40.47 / 40
p0 −28.15 ± 0.3219
pull
Entries 41
Mean −256.5
Std Dev 0

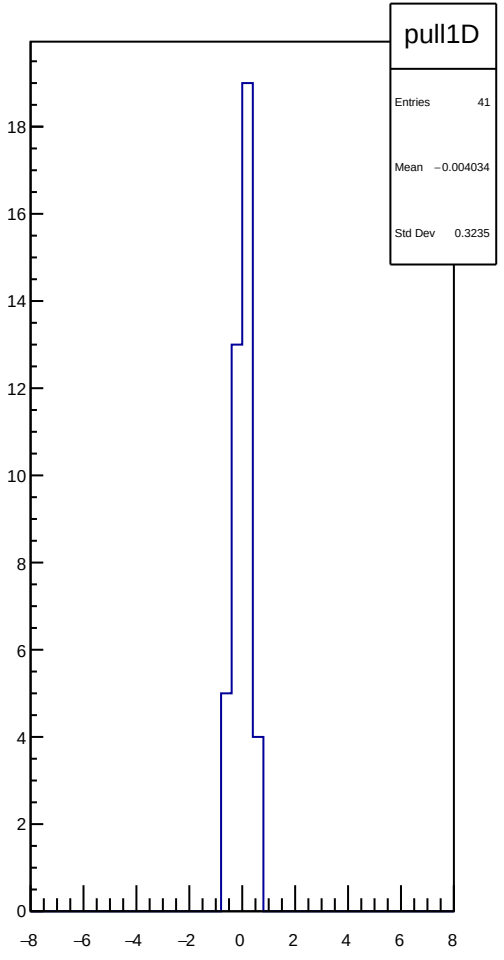

pull1D
Entries 41
Mean 0.006927
Std Dev 0.9935

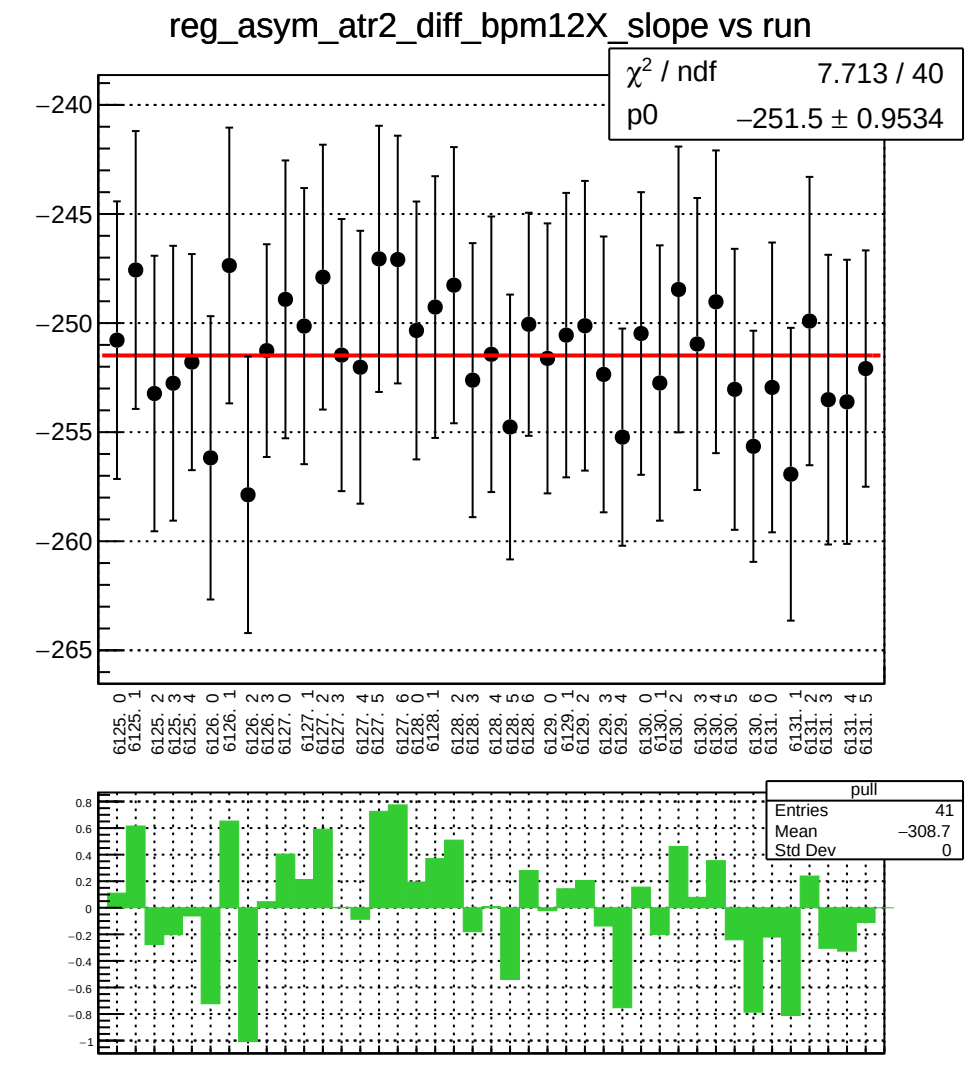

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 3.773 / 40
p0 −436.9 ± 9.958
−300
−350
−400
−450
−500
−550
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6126. 4
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −229.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean 0.00241
Std Dev 0.3034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

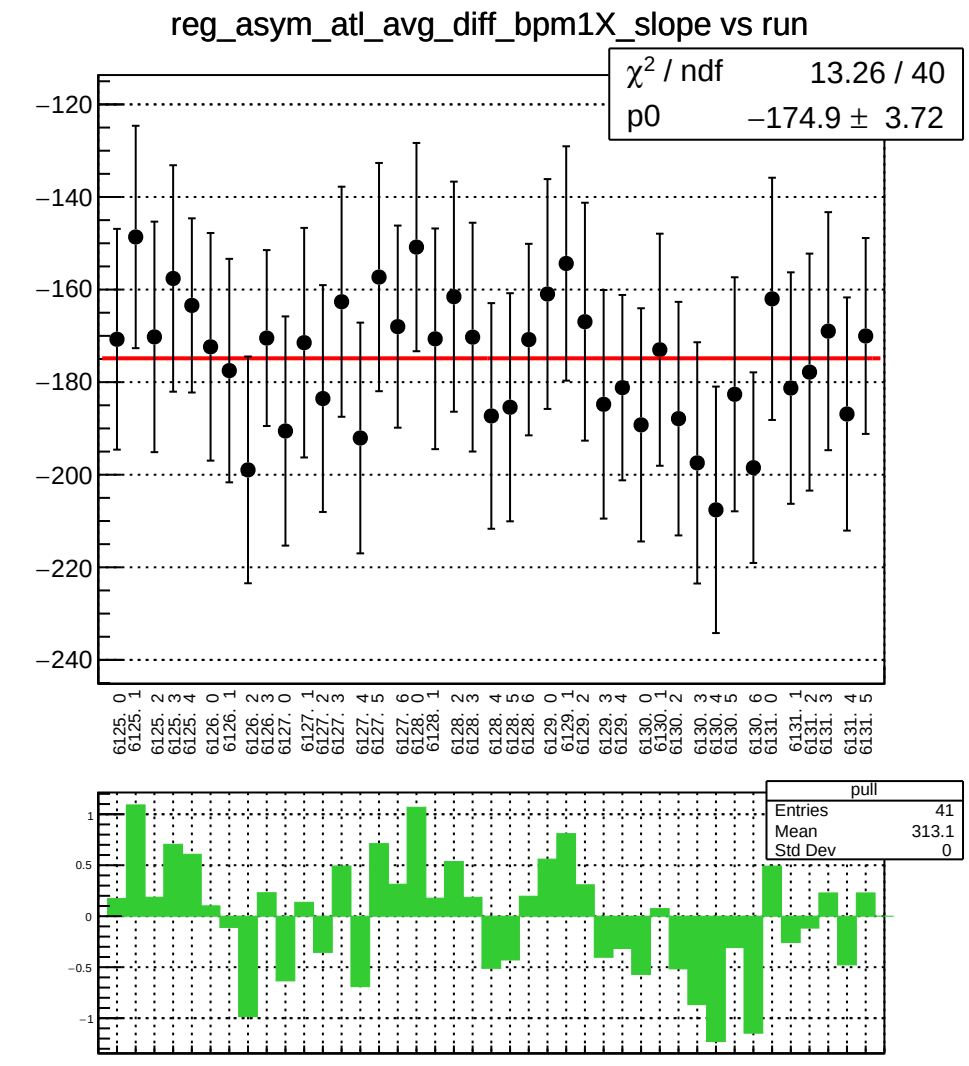

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 4.145 / 40
p0 −42.44 ± 10.73
100
50
0
−50
−100
−150
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 117.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 41
Mean 0.005672
Std Dev 0.3179
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

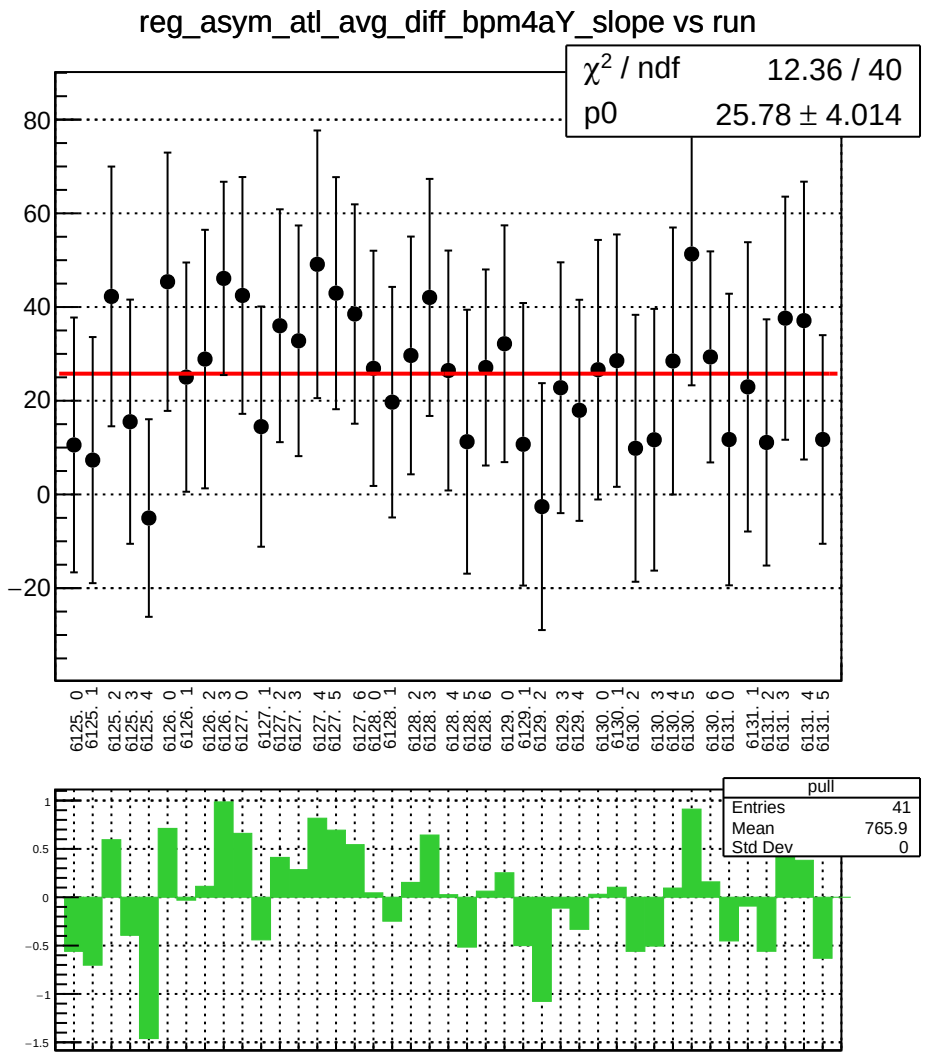

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 3.629 / 40
p0 692.7 ± 12.13
850
800
750
700
650
600
550
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −198.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean −0.0024
Std Dev 0.2975
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

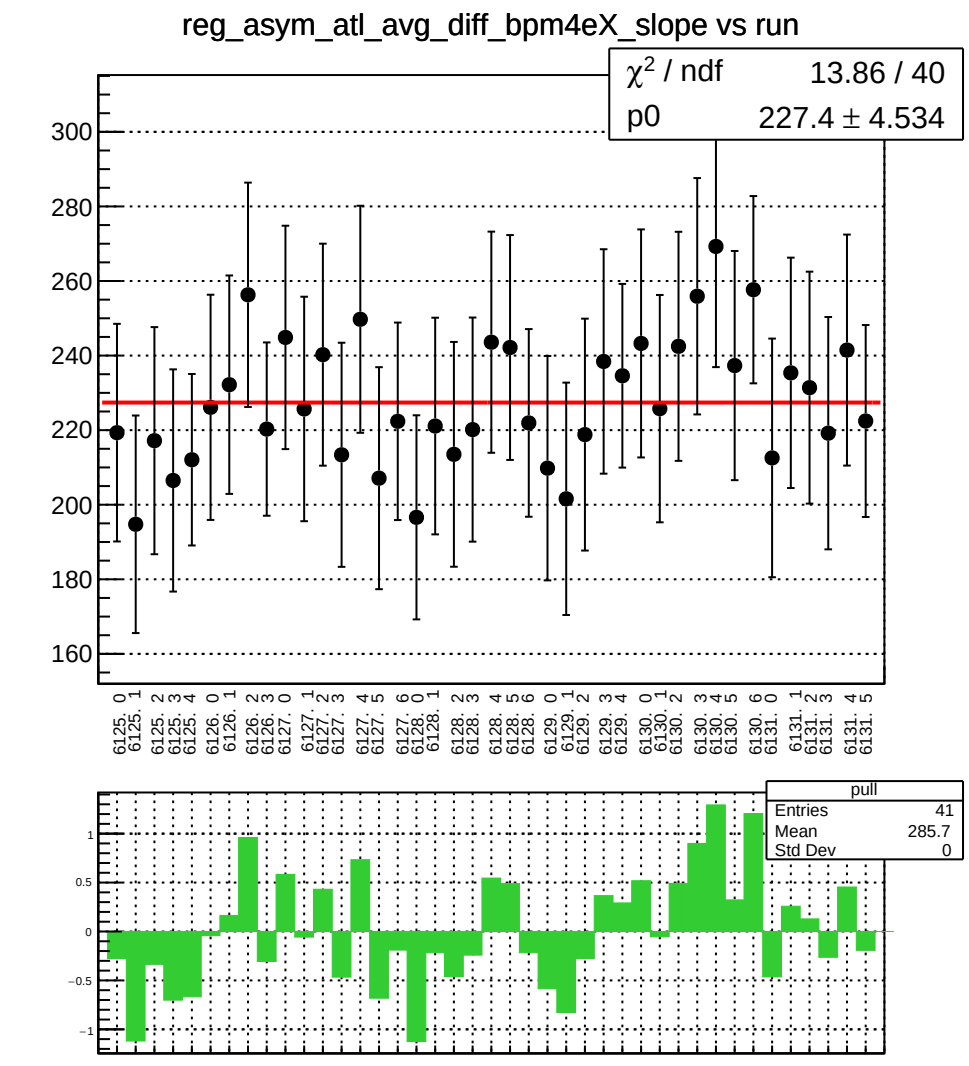

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 4.29 / 40
p0 202.3 ± 11.36
pull
Entries 41
Mean 116.7
Std Dev 0

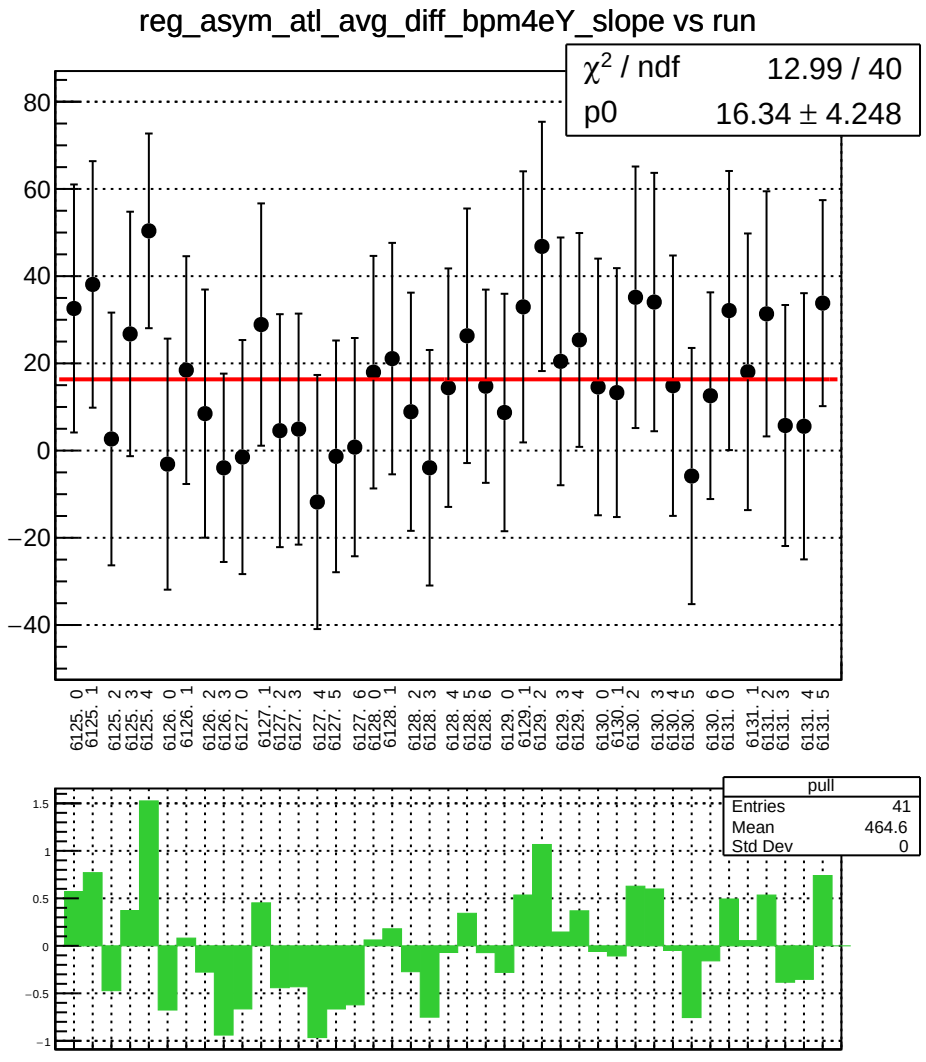

pull1D
Entries 41
Mean −0.004034
Std Dev 0.3235

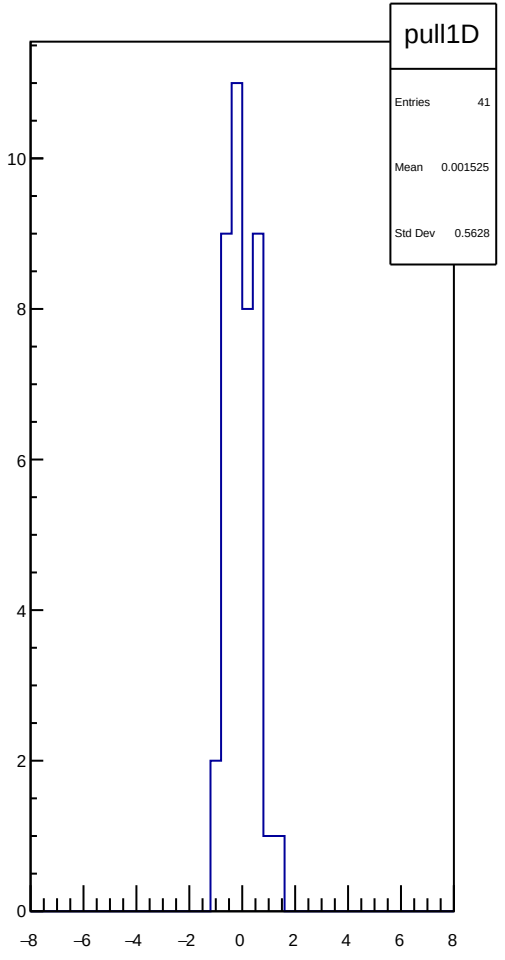

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 7.713 / 40
p0 −251.5 ± 0.9534
−240
−245
−250
−255
−260
−265
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −308.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 41
Mean 0.003568
Std Dev 0.4337
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

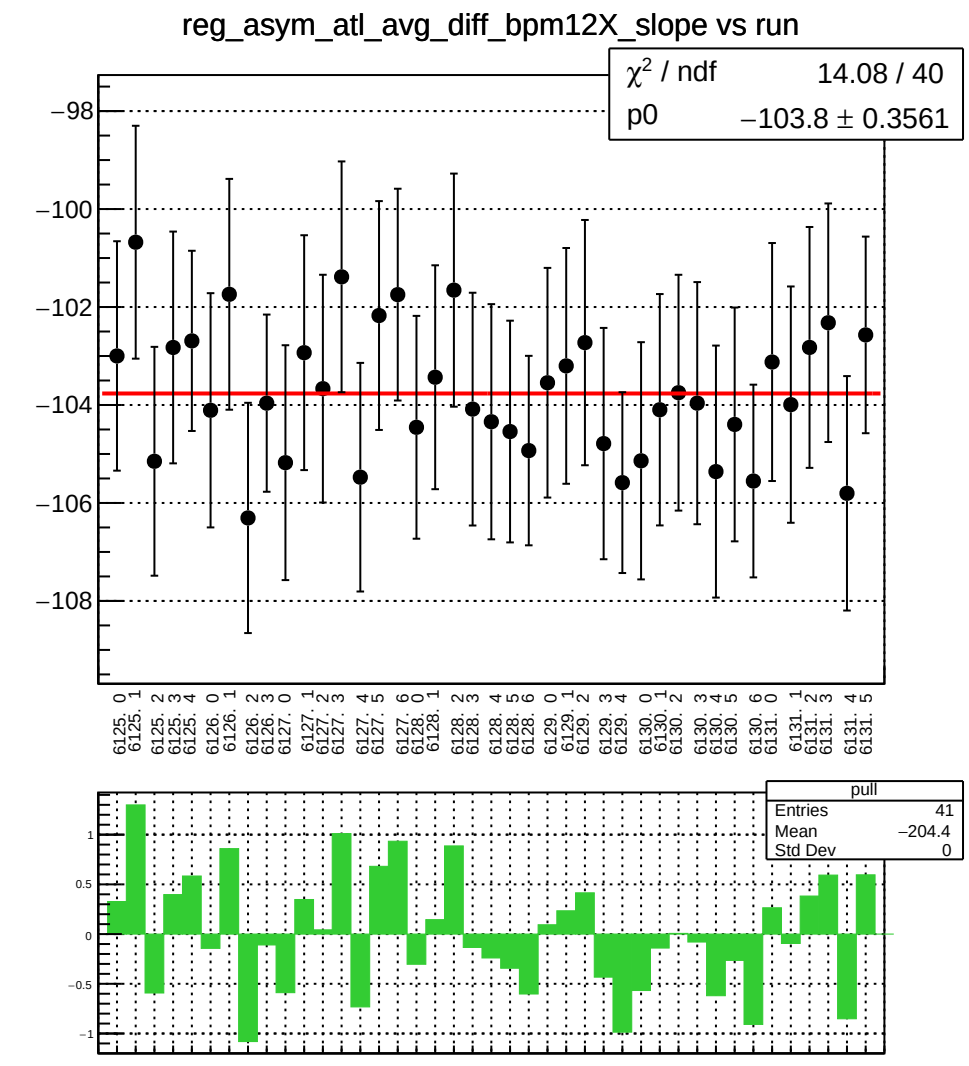

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 13.26 / 40
p0 −174.9 ± 3.72
−120
−140
−160
−180
−200
−220
−240
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 313.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.007682
Std Dev 0.5687
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

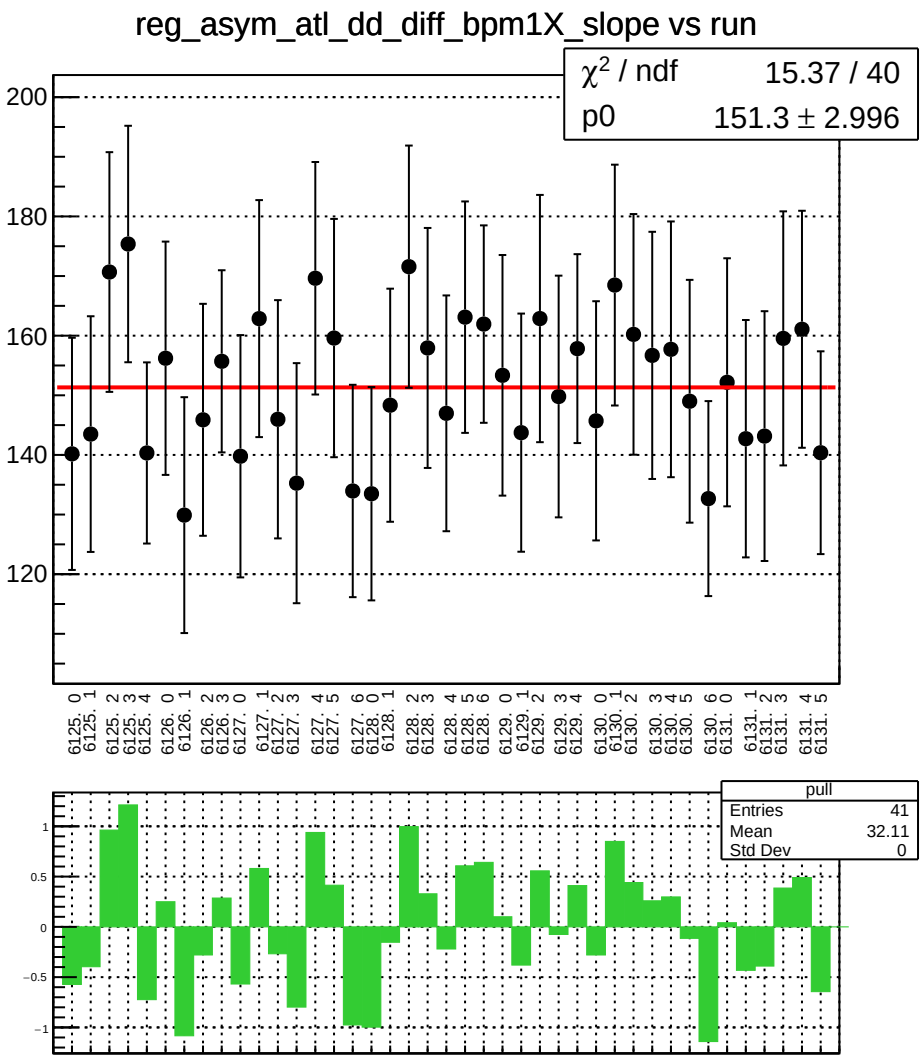

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.36 / 40
p0 25.78 ± 4.014
80
60
40
20
0
−20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6126. 4
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 765.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.0006915
Std Dev 0.5489
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

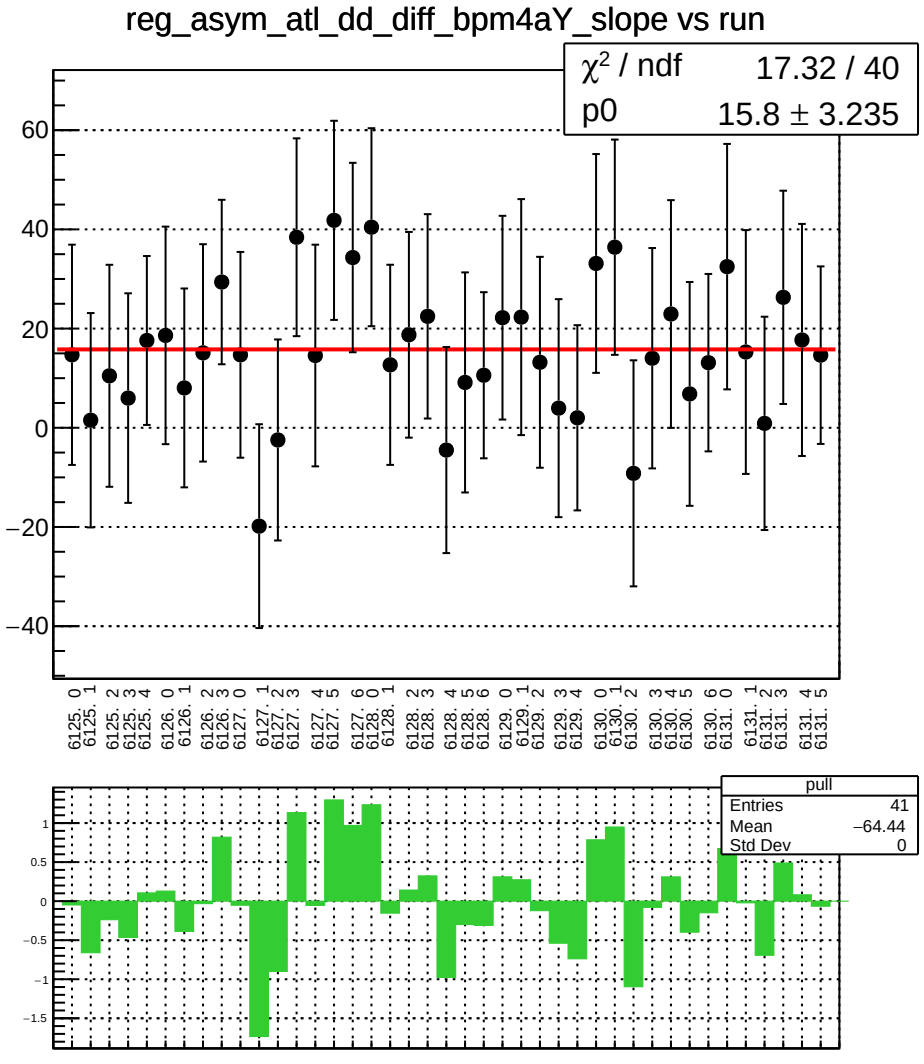

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.86 / 40
p0 227.4 ± 4.534
300
280
260
240
220
200
180
160
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 285.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.008967
Std Dev 0.5814
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

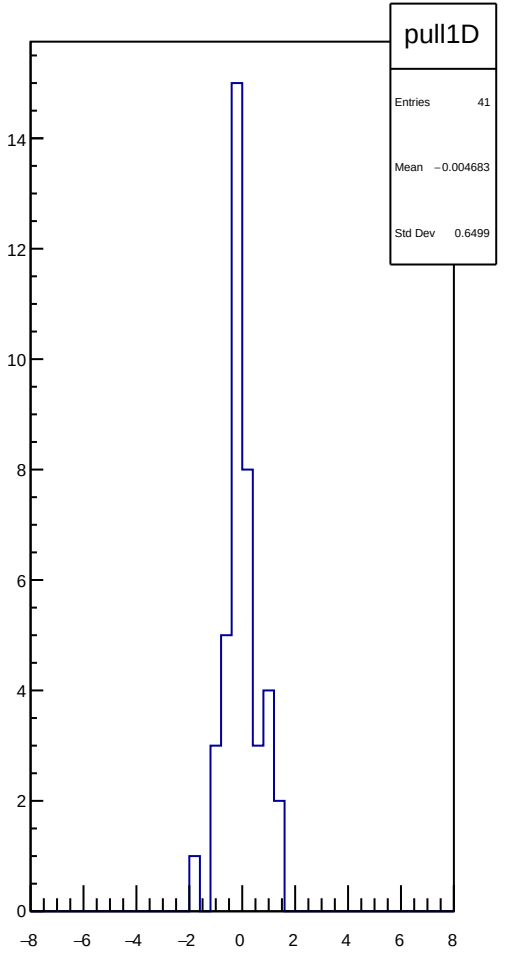

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.99 / 40
p0 16.34 ± 4.248
pull
Entries 41
Mean 464.6
Std Dev 0

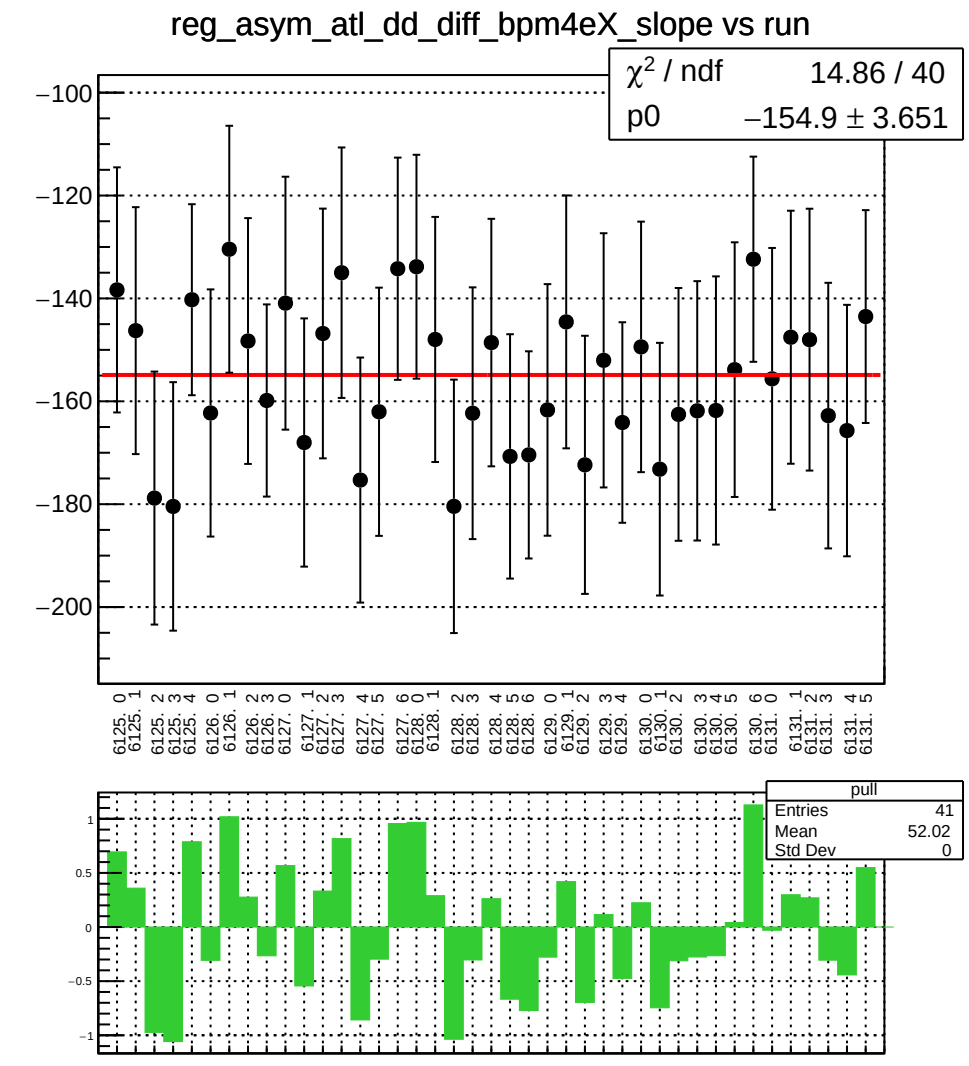

pull1D
Entries 41
Mean 0.001525
Std Dev 0.5628

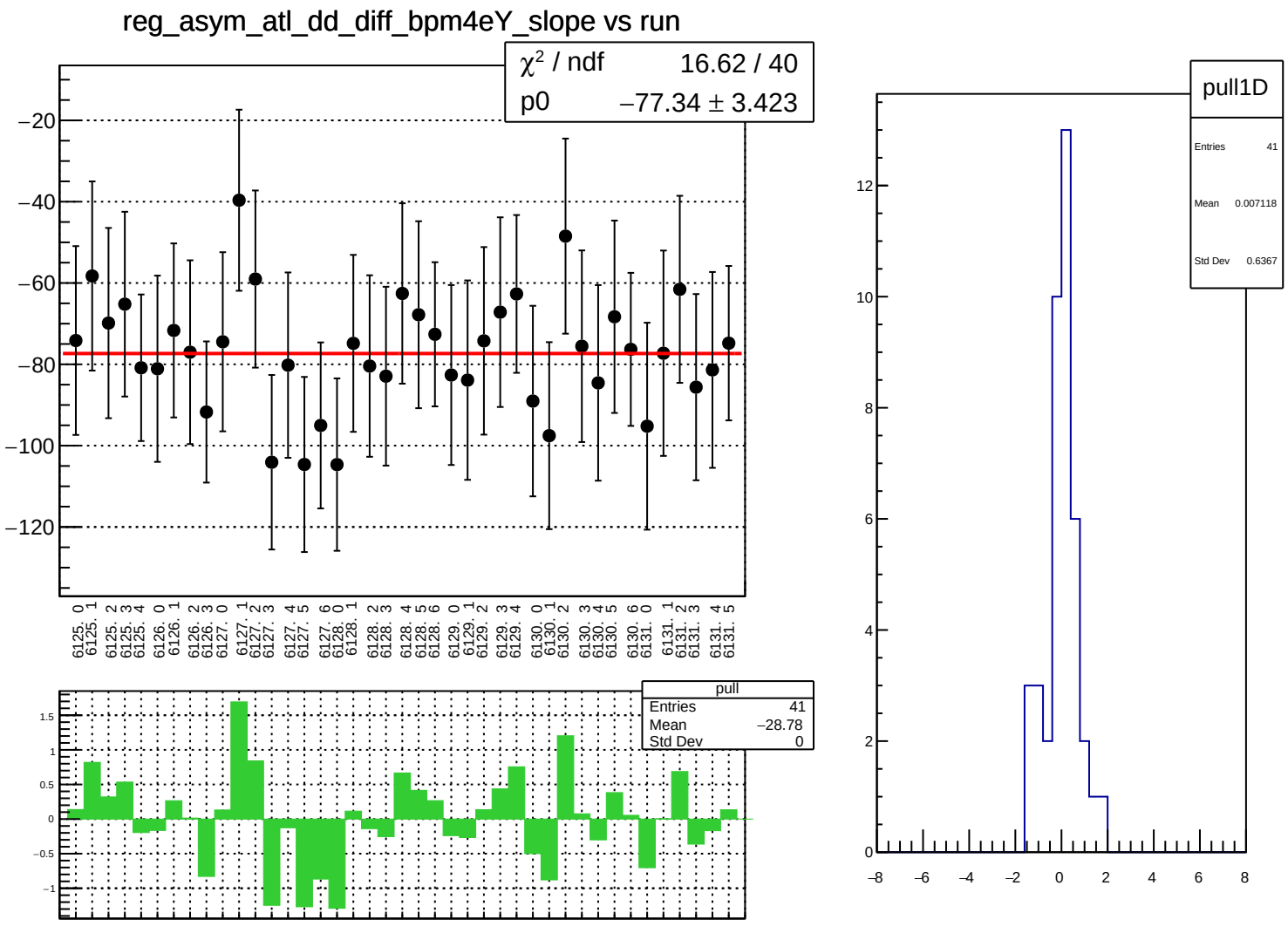

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 14.08 / 40
p0 −103.8 ± 0.3561
−98
−100
−102
−104
−106
−108
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −204.4
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.006912
Std Dev 0.586
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

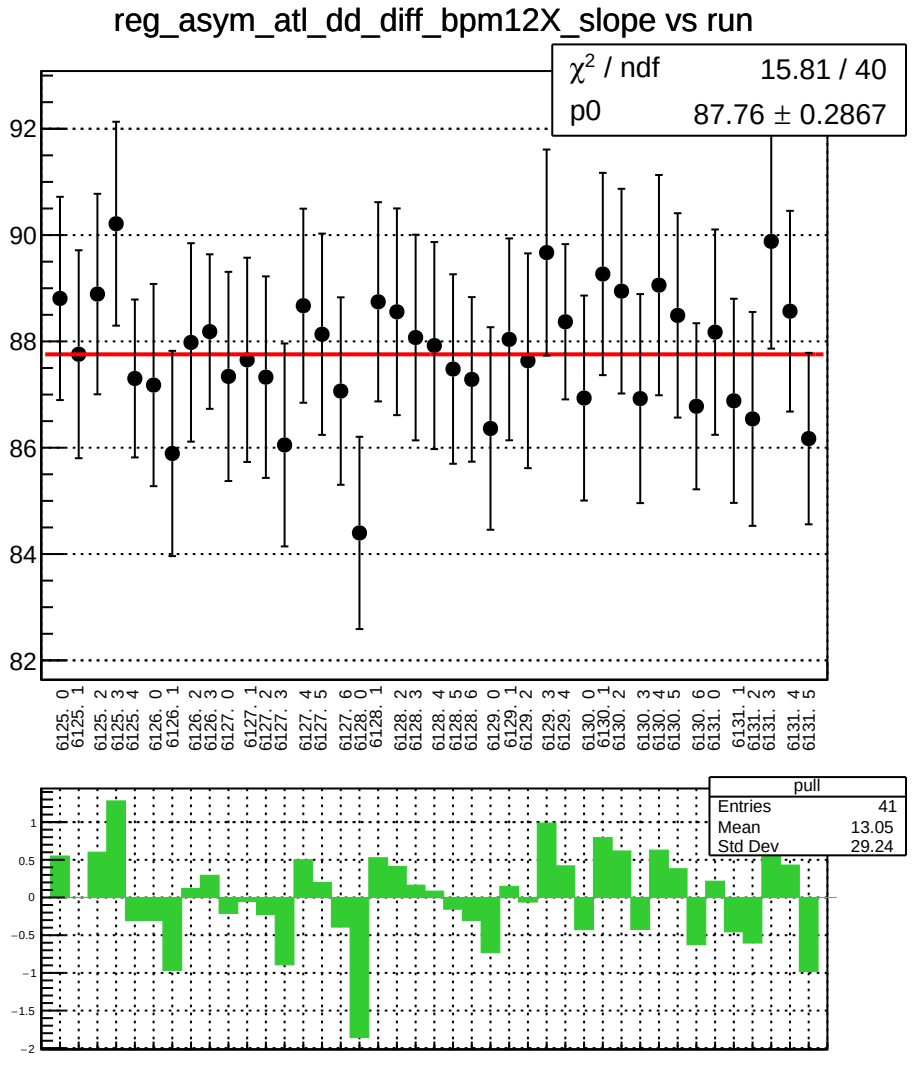

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 15.37 / 40
p0 151.3 ± 2.996
200
180
160
140
120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 32.11
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.01371
Std Dev 0.6121
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

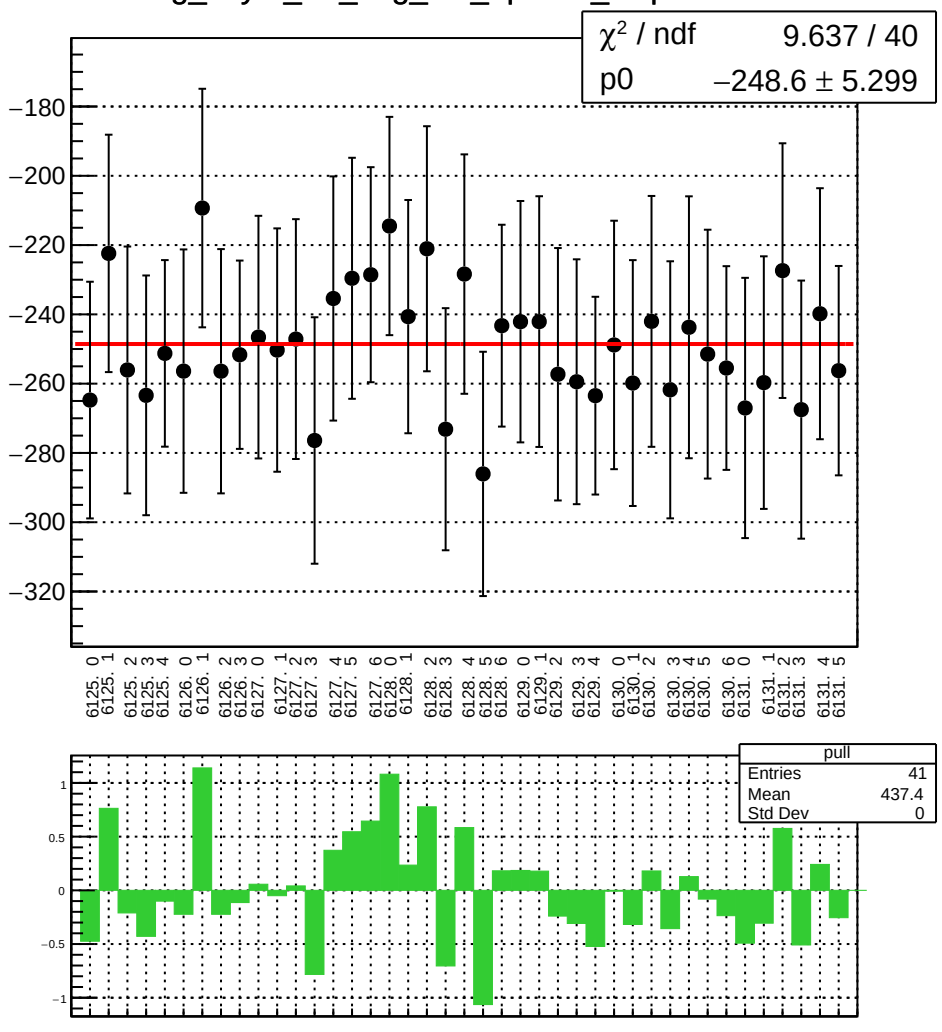

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.32 / 40
p0 15.8 ± 3.235
pull
Entries 41
Mean −64.44
Std Dev 0

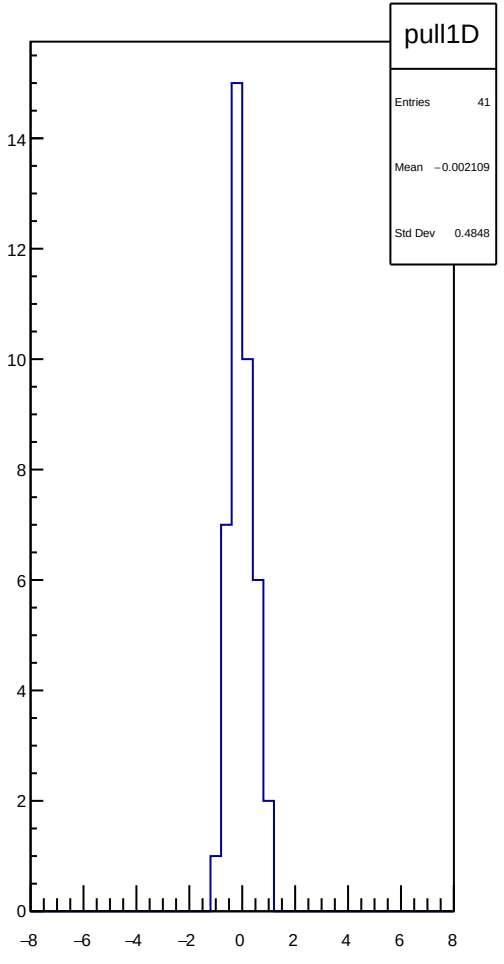

pull1D
Entries 41
Mean −0.004683
Std Dev 0.6499

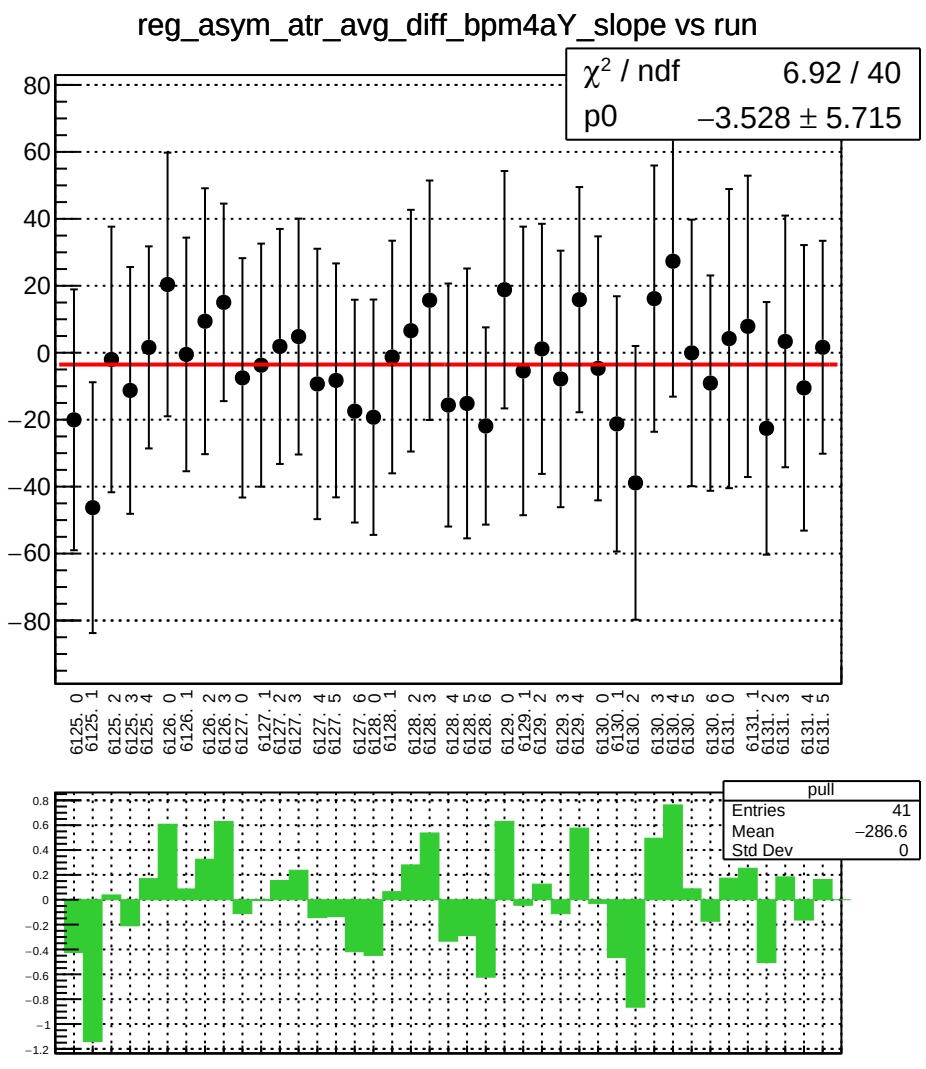

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.86 / 40
p0 −154.9 ± 3.651
−100
−120
−140
−160
−180
−200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 52.02
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.01312
Std Dev 0.6019
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

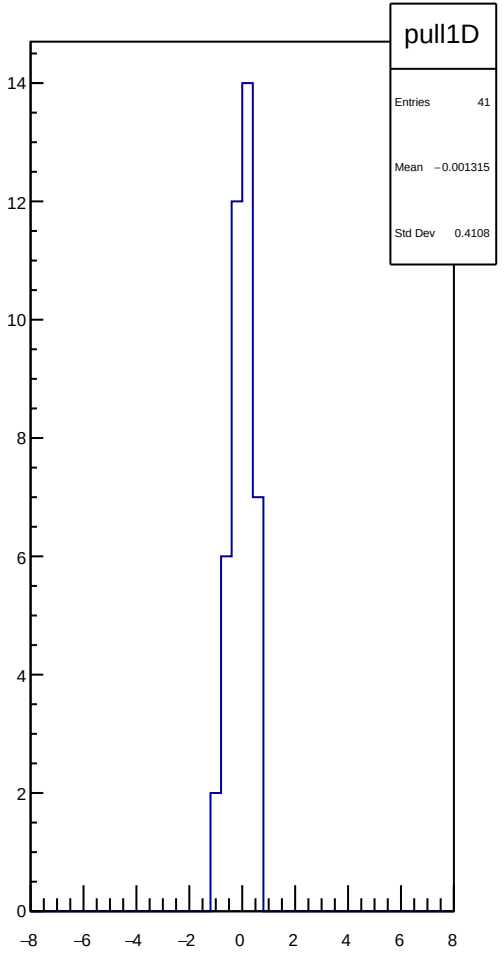

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.62 / 40
p0 −77.34 ± 3.423
−20
−40
−60
−80
−100
−120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −28.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.007118
Std Dev 0.6367
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

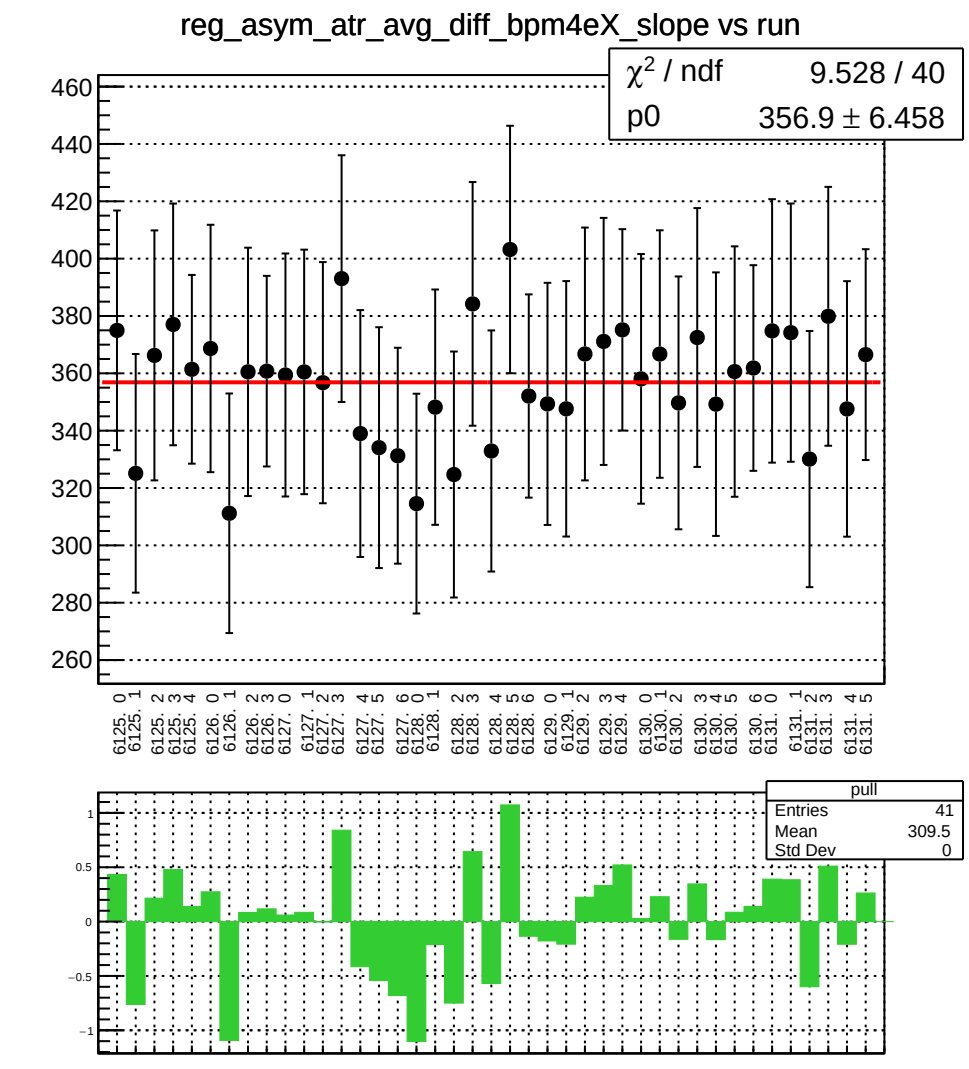

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 15.81 / 40
p0 87.76 ± 0.2867
92
90
88
86
84
82
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 13.05
Std Dev 29.24
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.01056
Std Dev 0.6209
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

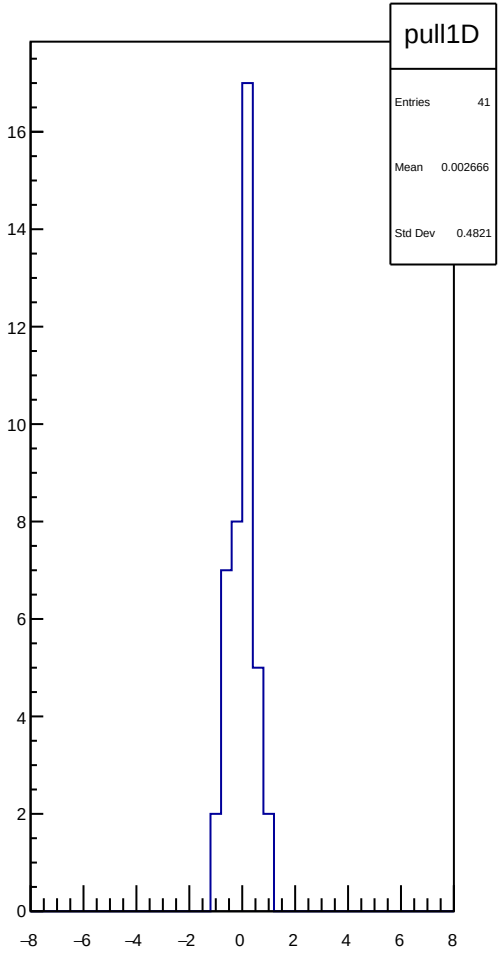

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ^2 / ndf 9.637 / 40
p0 −248.6 ± 5.299
pull
Entries 41
Mean 437.4
Std Dev 0

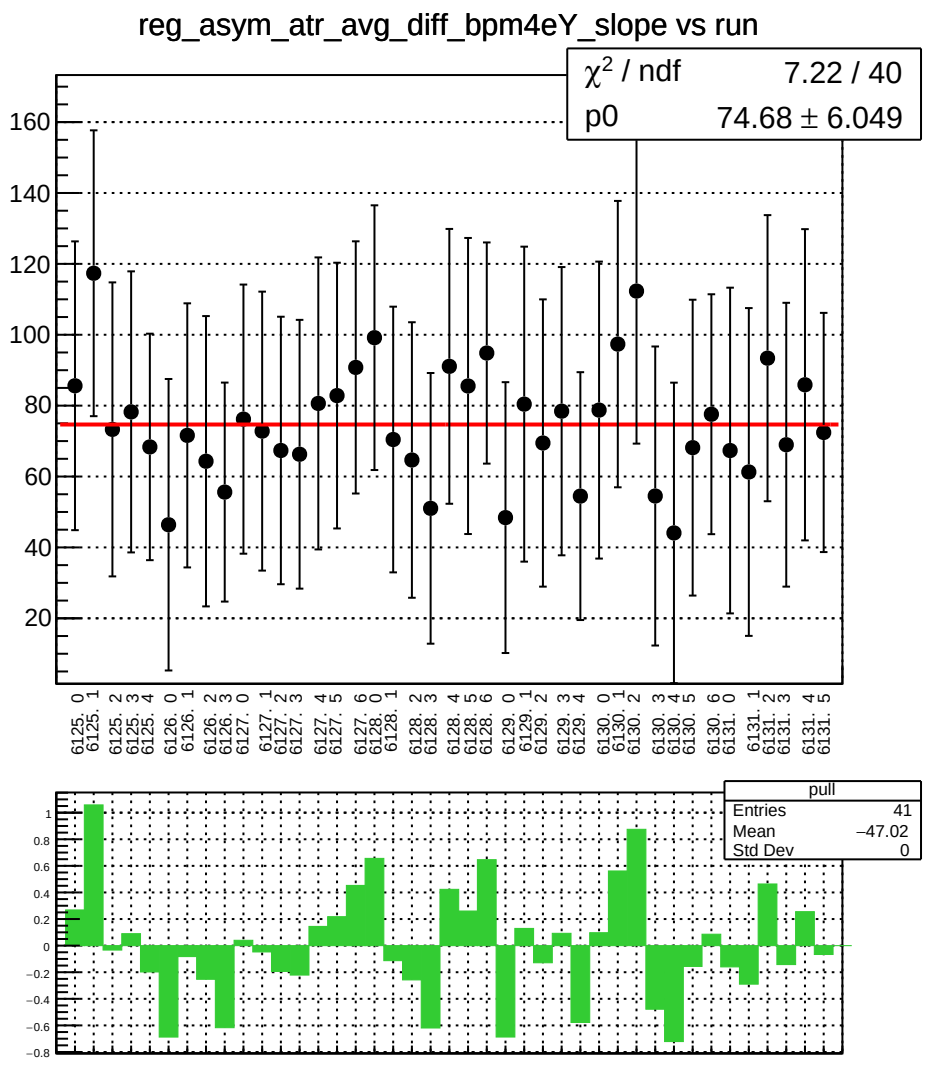

pull1D
Entries 41
Mean −0.002109
Std Dev 0.4848

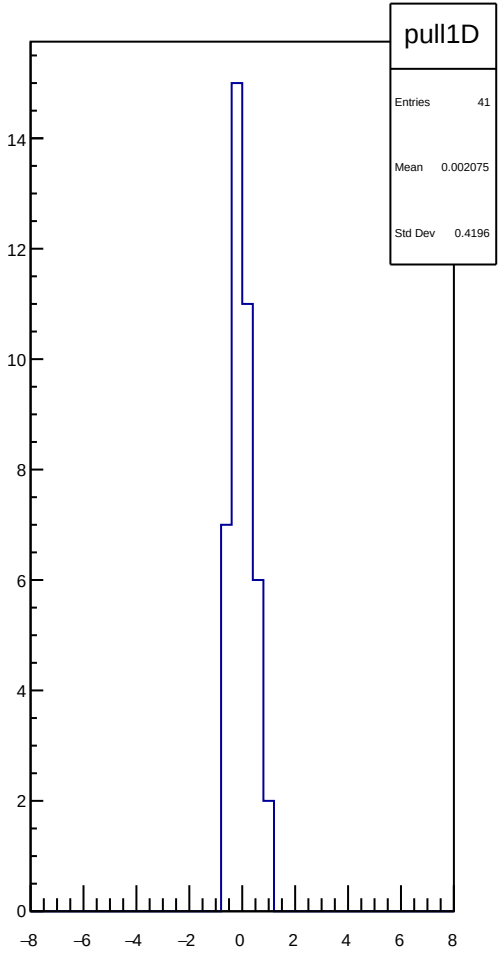

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.92 / 40
p0 −3.528 ± 5.715
pull
Entries 41
Mean −286.6
Std Dev 0

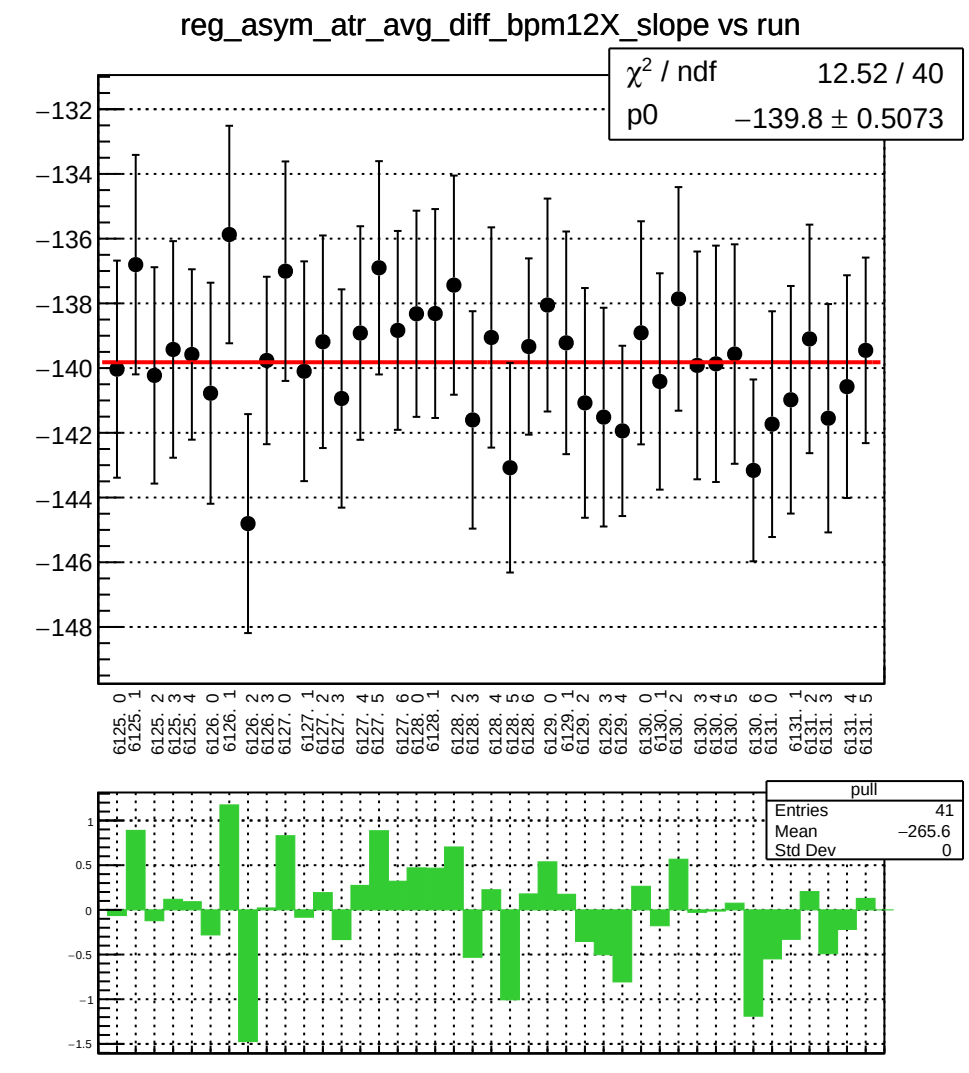

pull1D
Entries 41
Mean −0.001315
Std Dev 0.4108

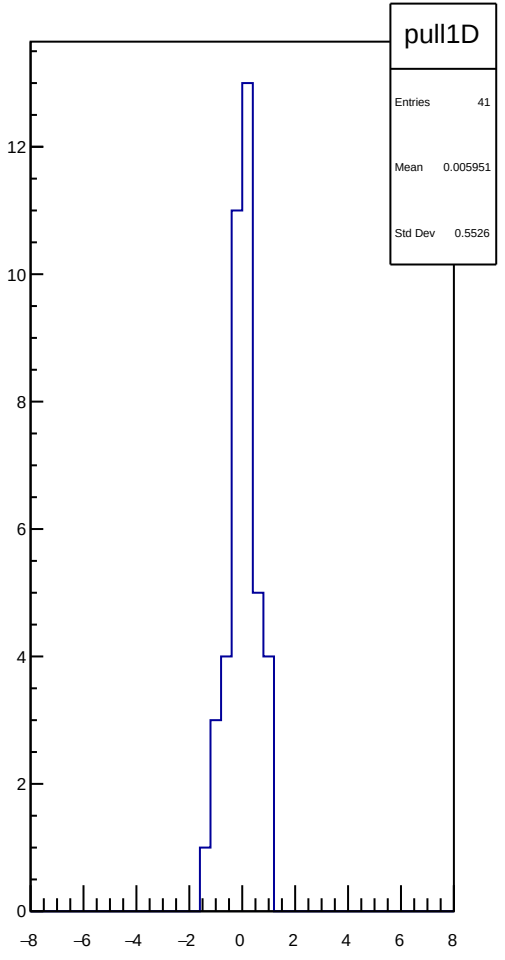

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.528 / 40
p0 356.9 ± 6.458
460
440
420
400
380
360
340
320
300
280
260
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 309.5
Std Dev 0
1
0.5
0
−0.5
−1

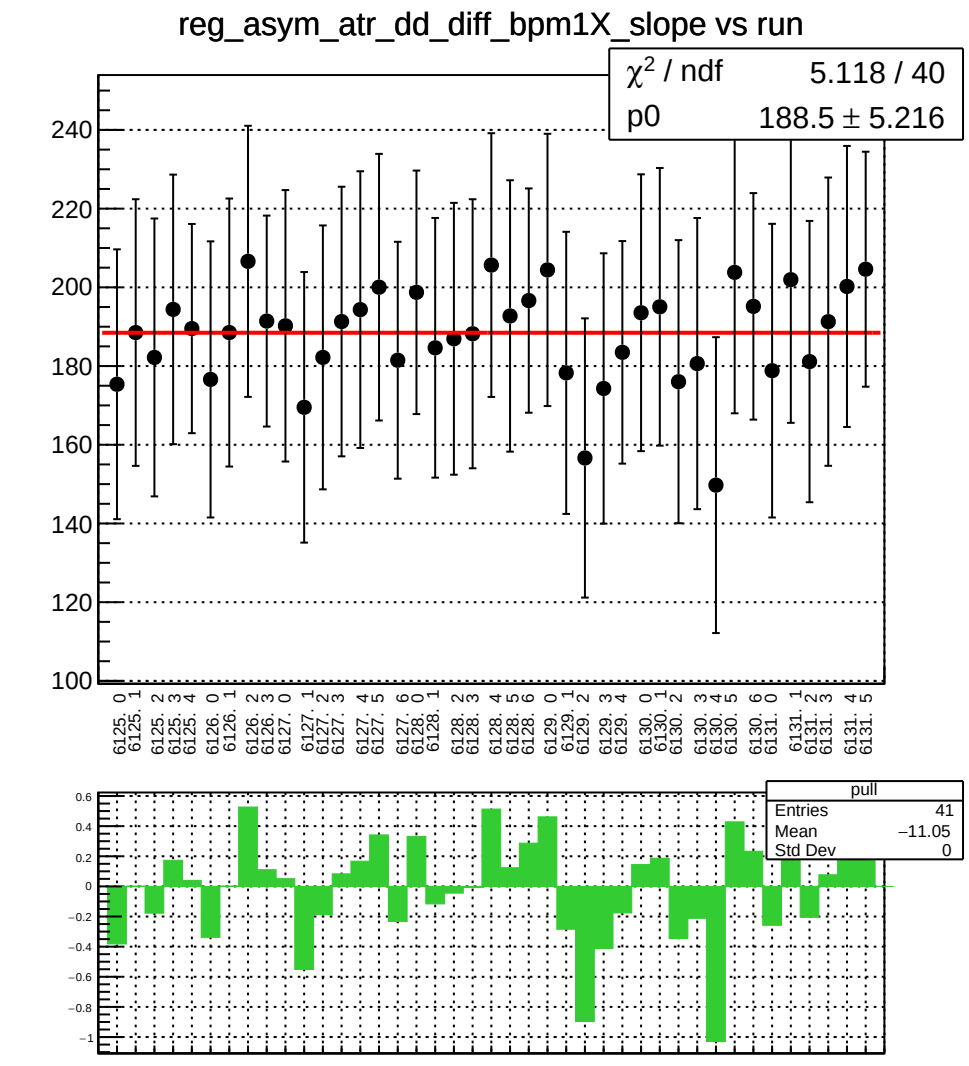

pull1D
Entries 41
Mean 0.002666
Std Dev 0.4821
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

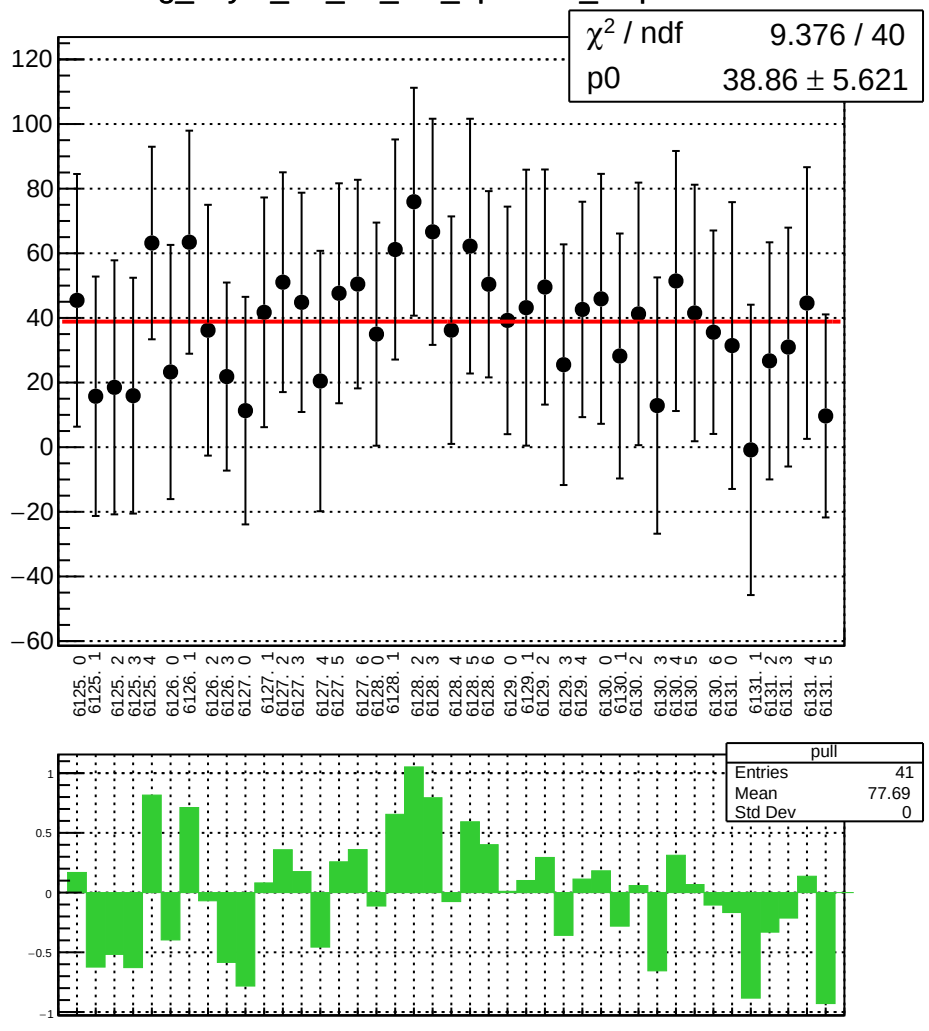

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.22 / 40
p0 74.68 ± 6.049
pull
Entries 41
Mean −47.02
Std Dev 0

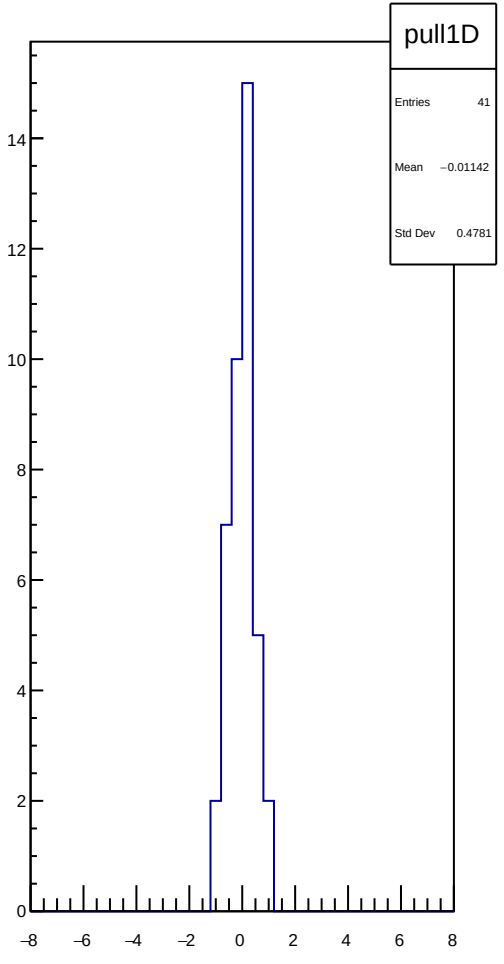

pull1D
Entries 41
Mean 0.002075
Std Dev 0.4196

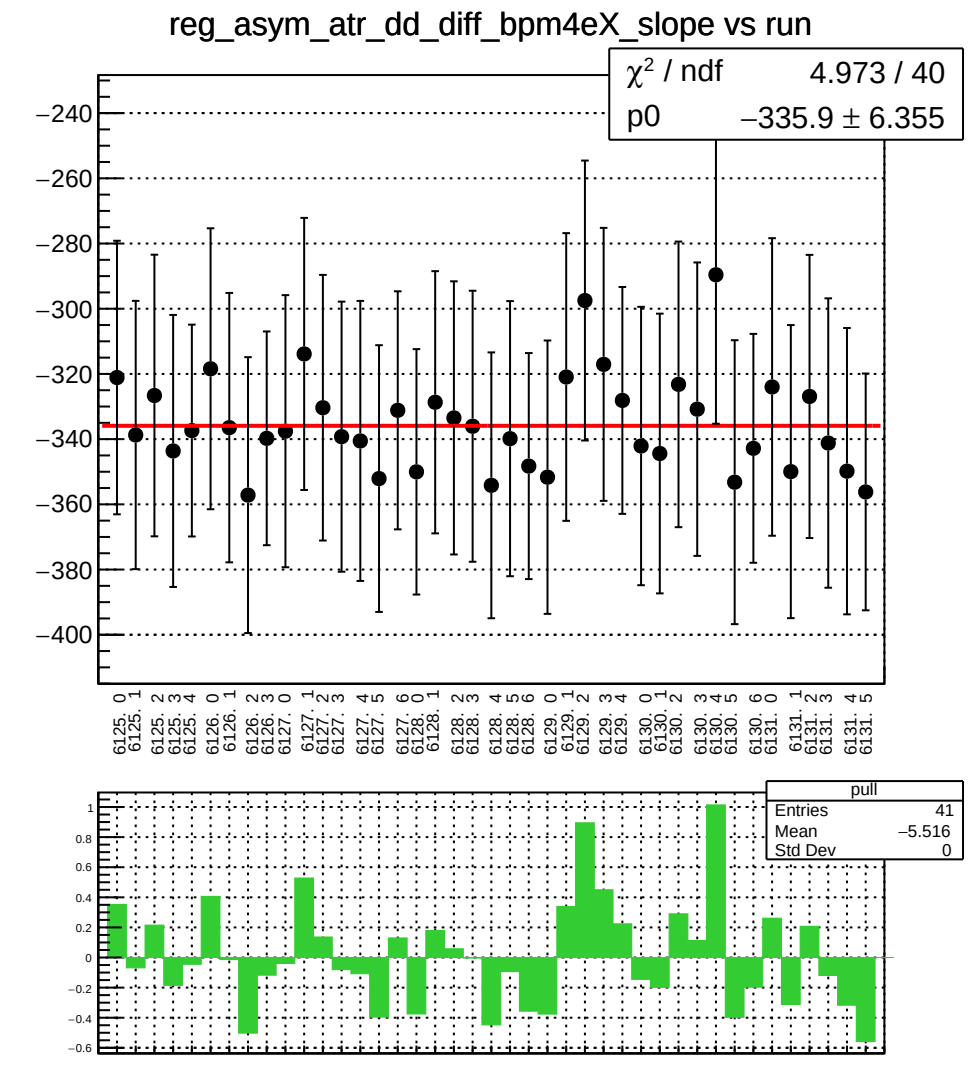

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 12.52 / 40
p0 −139.8 ± 0.5073
pull
Entries 41
Mean −265.6
Std Dev 0

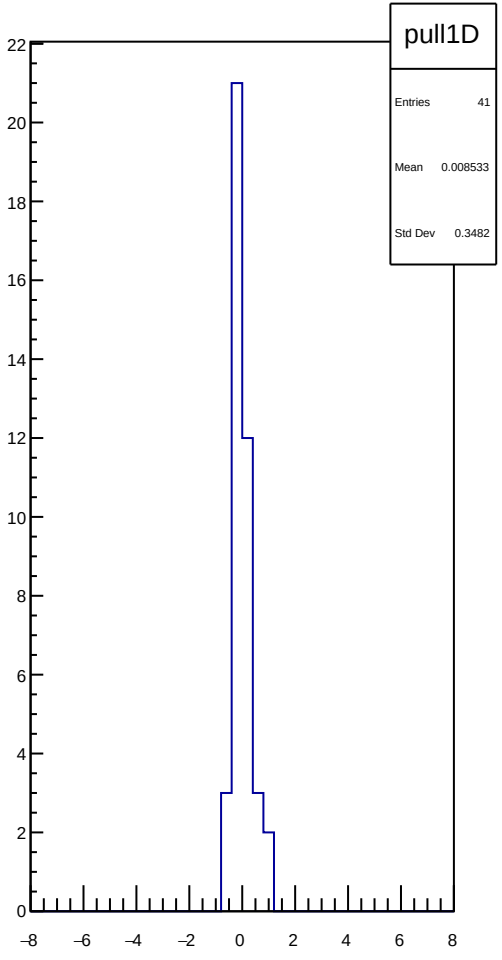

pull1D
Entries 41
Mean 0.005951
Std Dev 0.5526

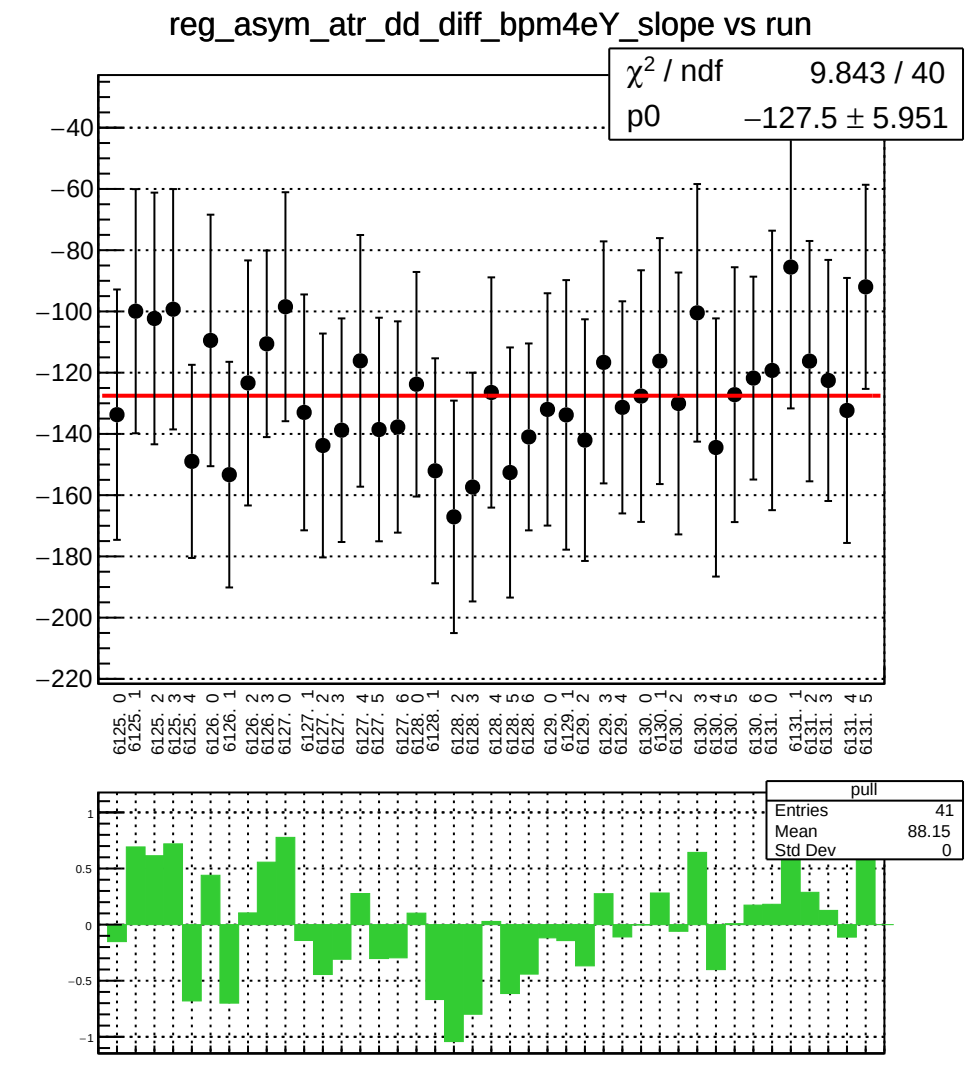

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 5.118 / 40
p0 188.5 ± 5.216
240
220
200
180
160
140
120
100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −11.05
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 41
Mean −0.008063
Std Dev 0.3532
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

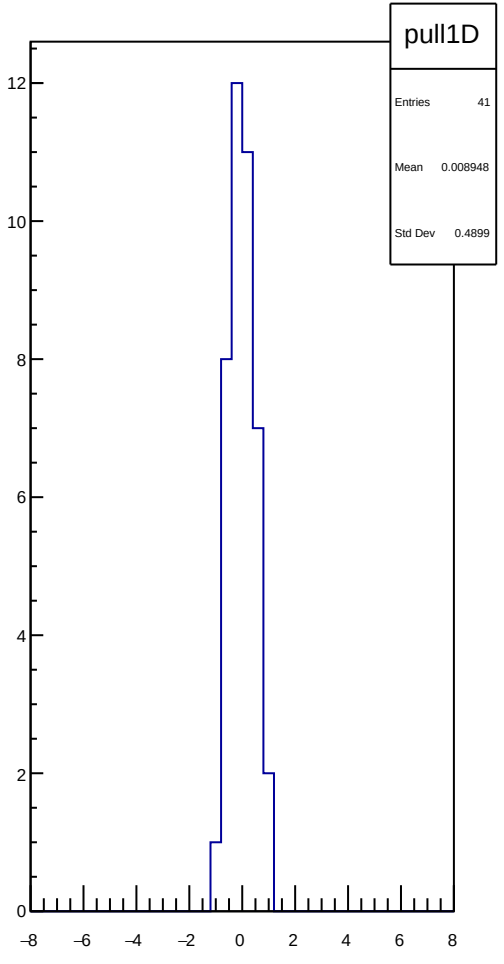

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.376 / 40
p0 38.86 ± 5.621
pull
Entries 41
Mean 77.69
Std Dev 0

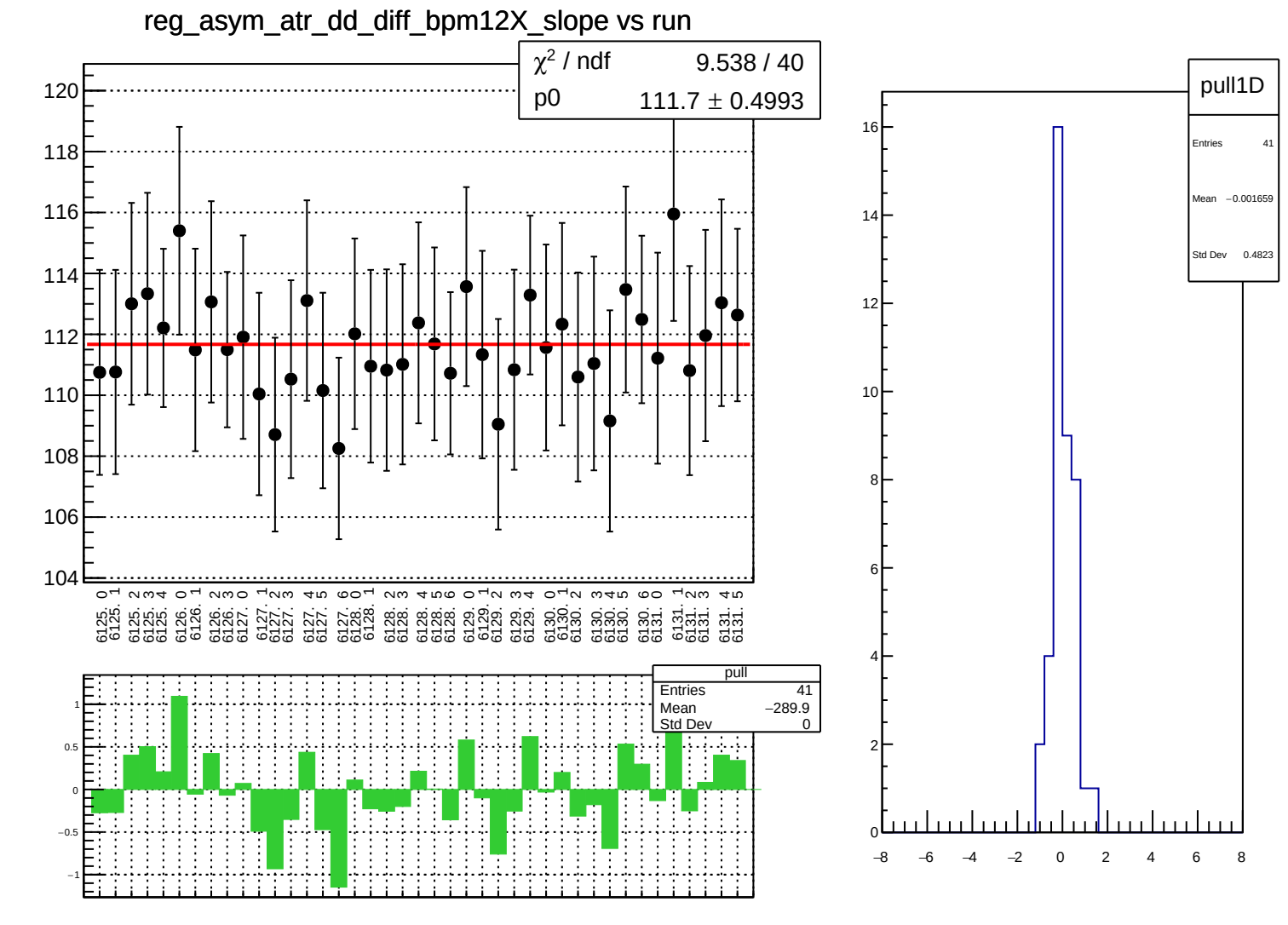

pull1D
Entries 41
Mean −0.01142
Std Dev 0.4781

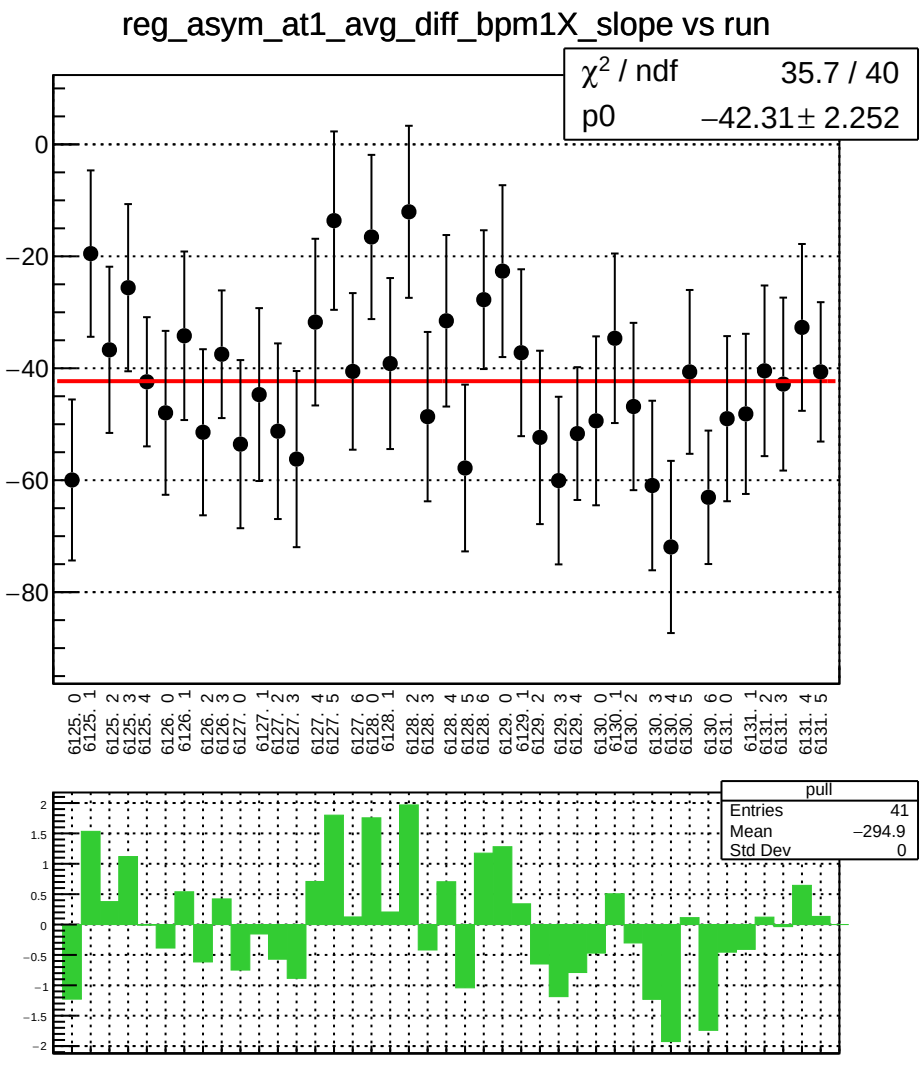

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.973 / 40
p0 −335.9 ± 6.355
pull
Entries 41
Mean −5.516
Std Dev 0

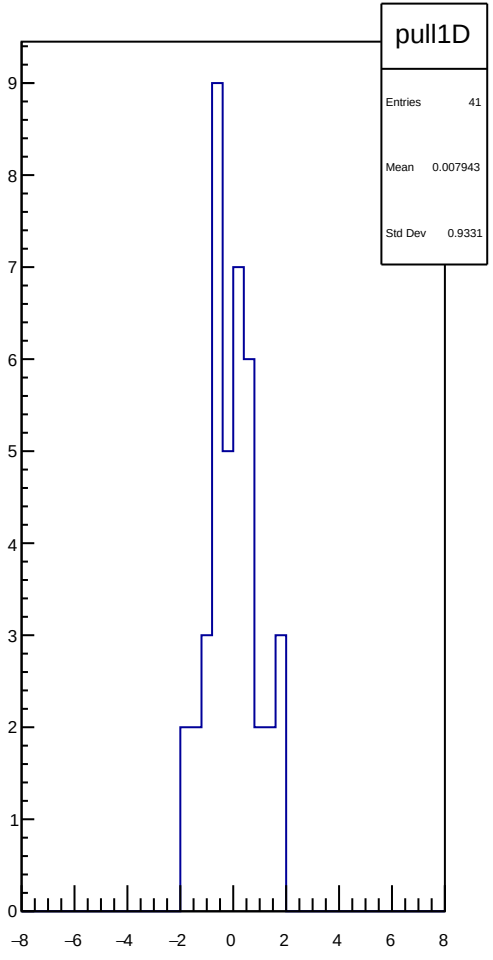

pull1D
Entries 41
Mean 0.008533
Std Dev 0.3482

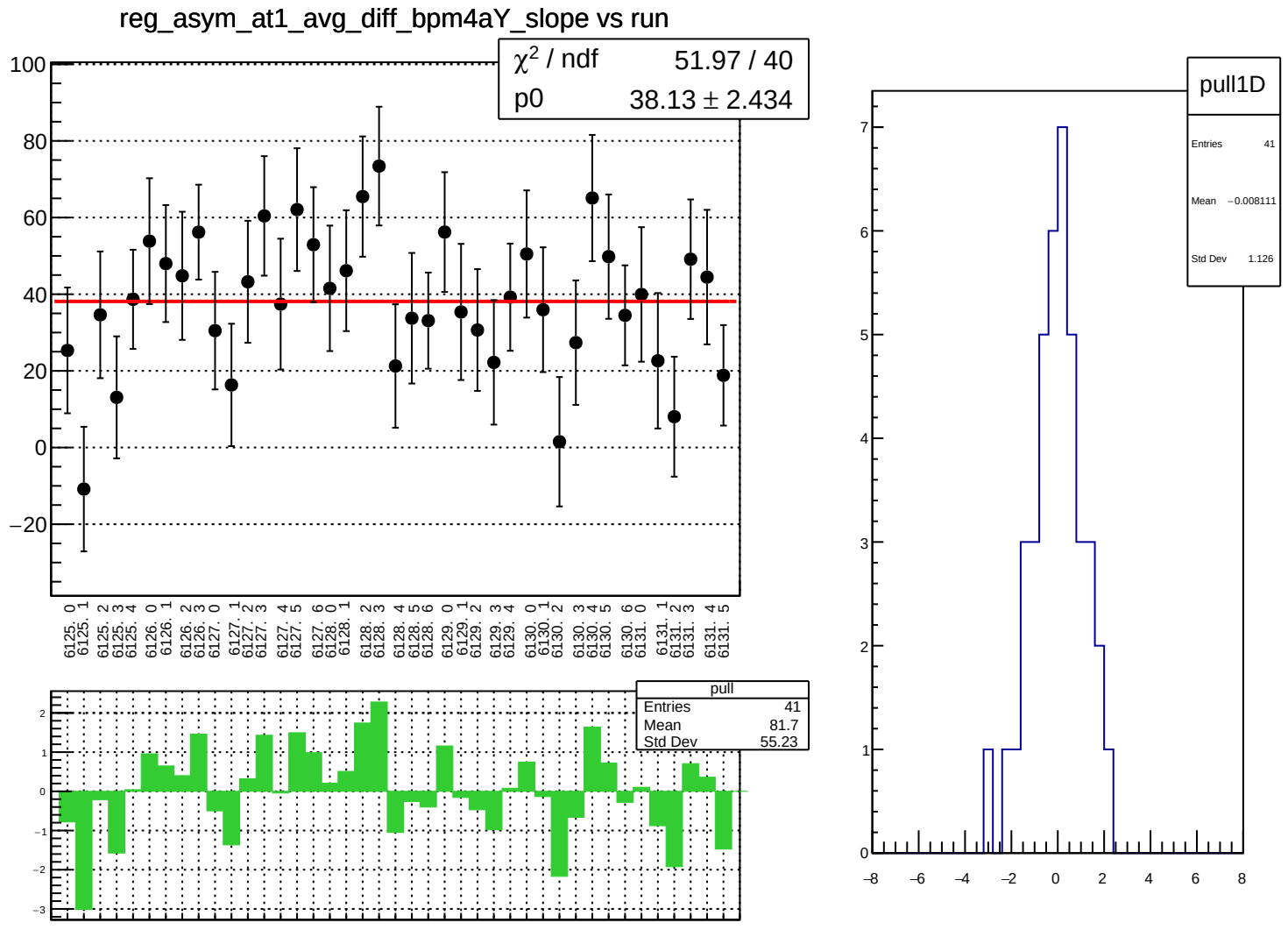

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.843 / 40
p0 −127.5 ± 5.951
pull
Entries 41
Mean 88.15
Std Dev 0

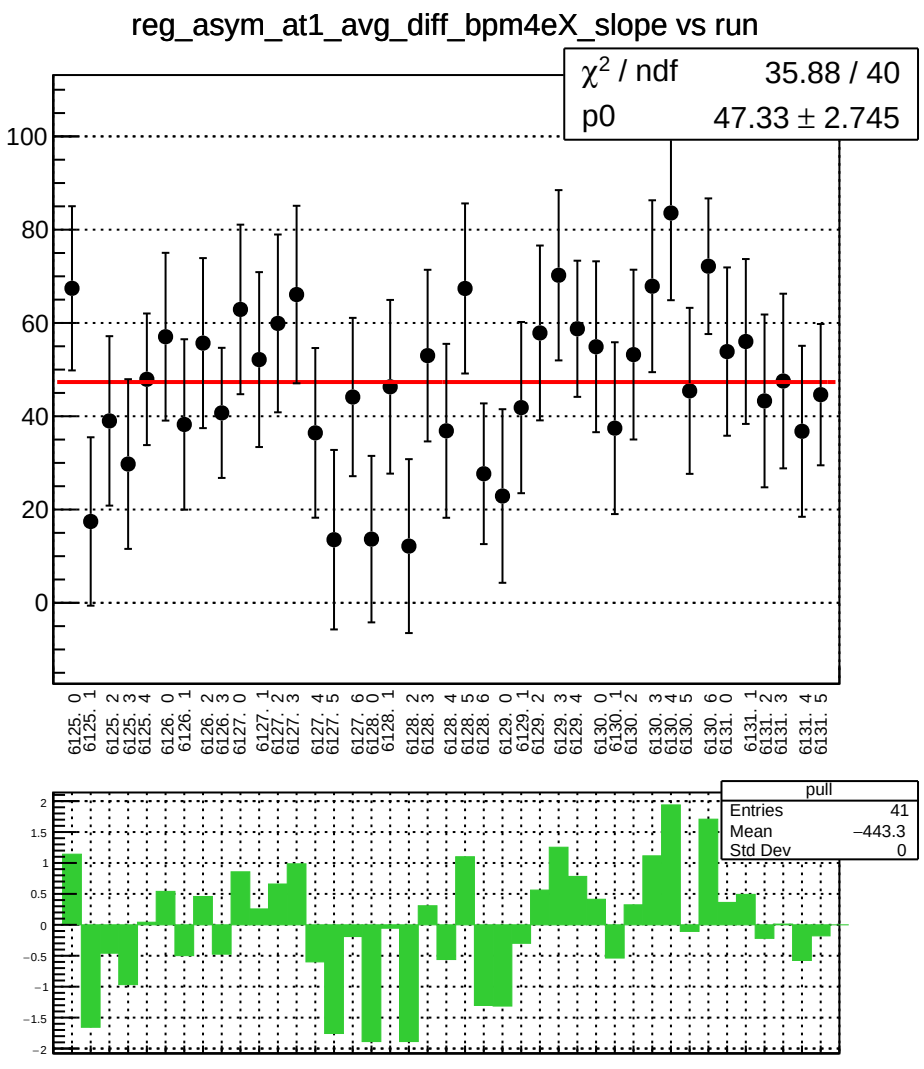

pull1D
Entries 41
Mean 0.008948
Std Dev 0.4899

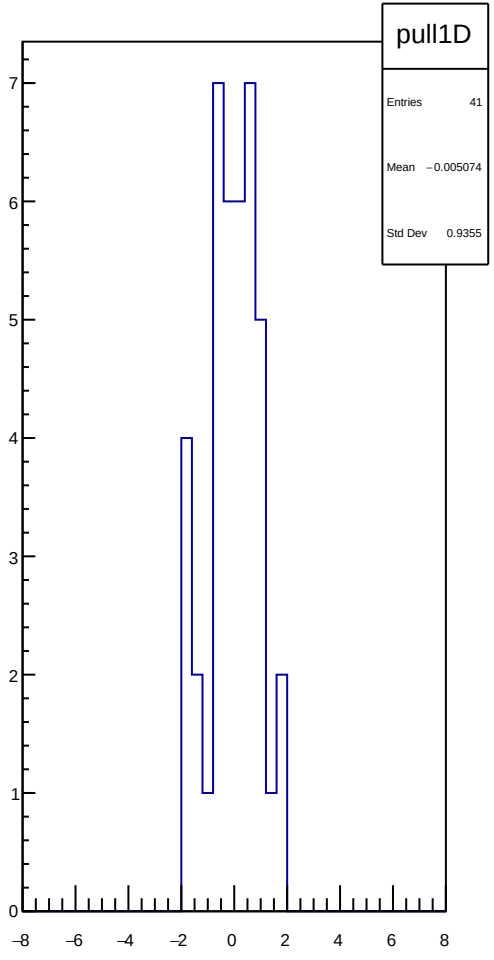

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 9.538 / 40
p0 111.7 ± 0.4993
pull
Entries 41
Mean −289.9
Std Dev 0
pull1D
Entries 41
Mean −0.001659
Std Dev 0.4823

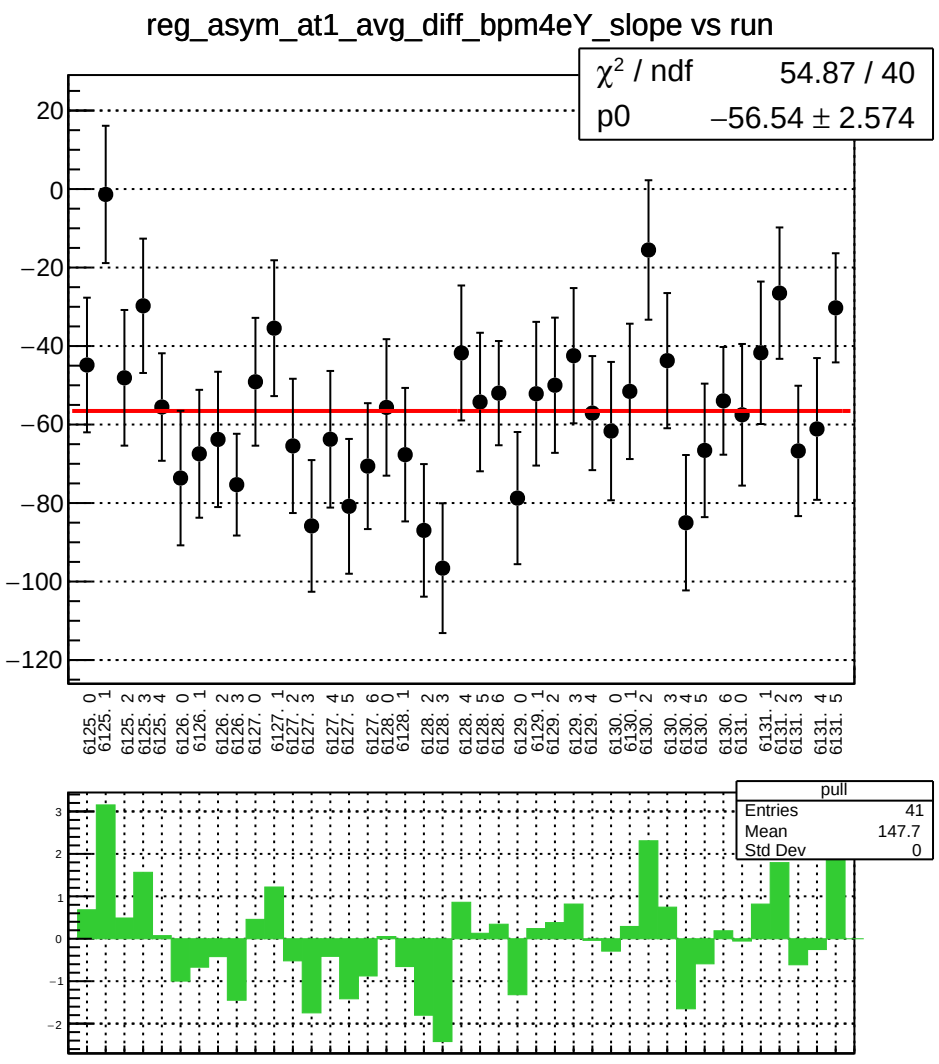

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 35.7 / 40
p0 −42.31 ± 2.252
0
−20
−40
−60
−80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −294.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

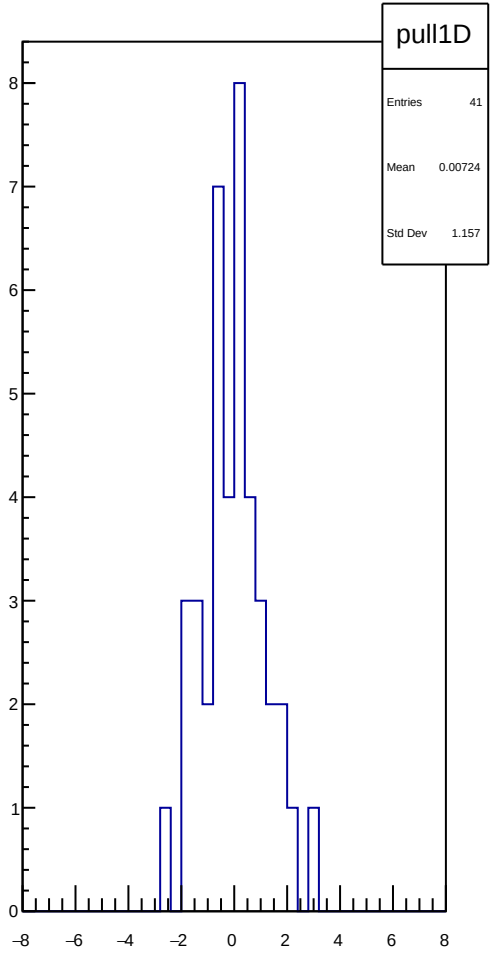

pull1D
Entries 41
Mean 0.007943
Std Dev 0.9331
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

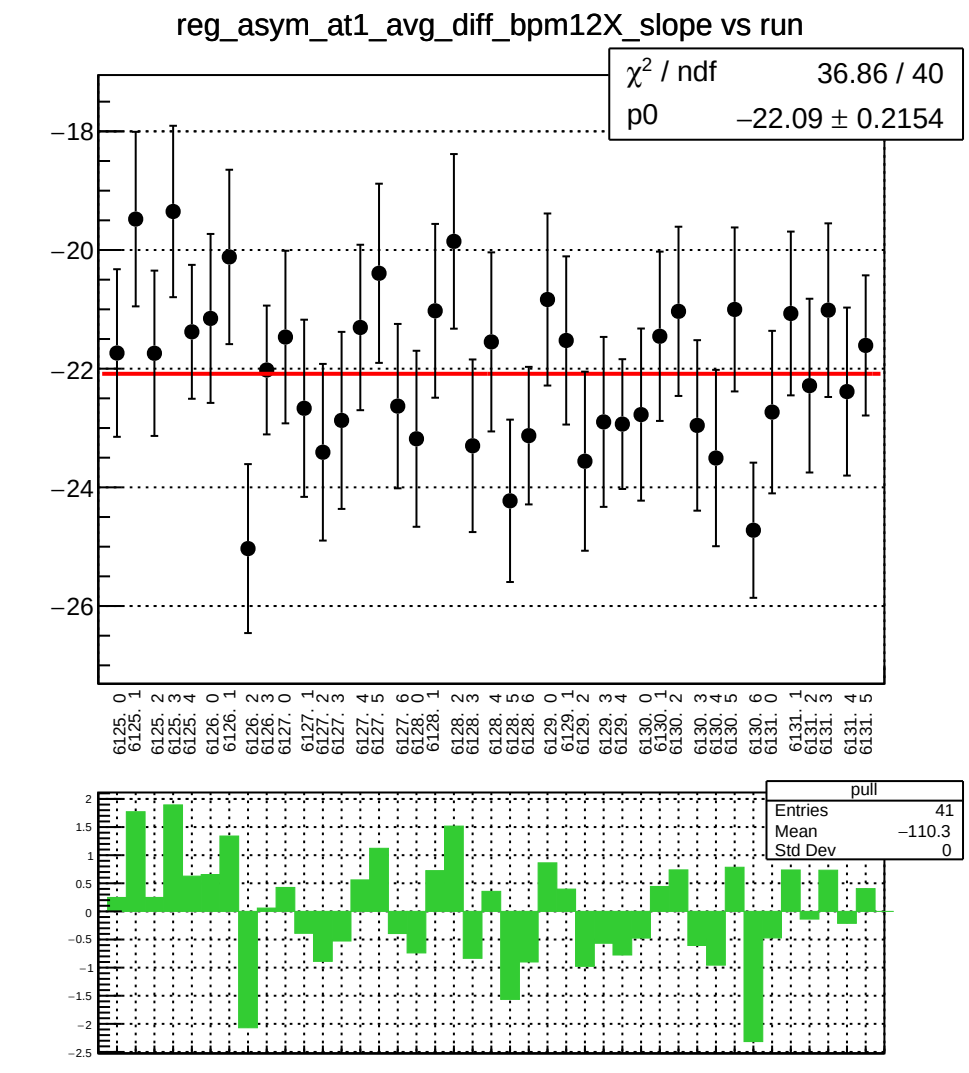

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 51.97 / 40
p0 38.13 ± 2.434
pull
Entries 41
Mean 81.7
Std Dev 55.23
pull1D
Entries 41
Mean −0.008111
Std Dev 1.126

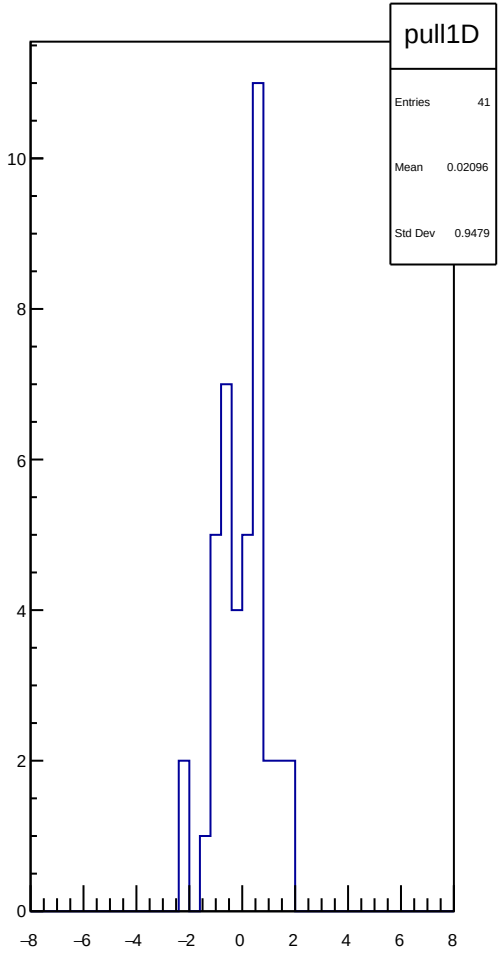

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.88 / 40
p0 47.33 ± 2.745
100
80
60
40
20
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −443.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

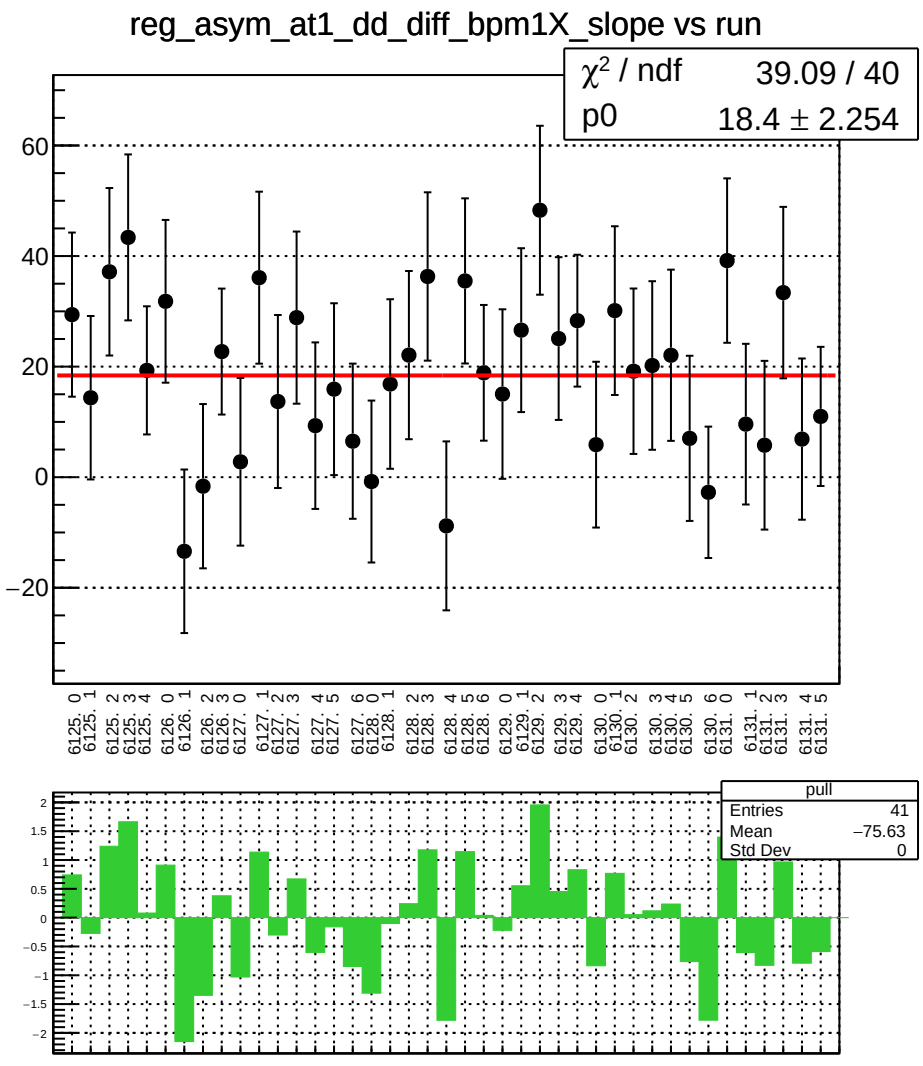

pull1D
Entries 41
Mean −0.005074
Std Dev 0.9355
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

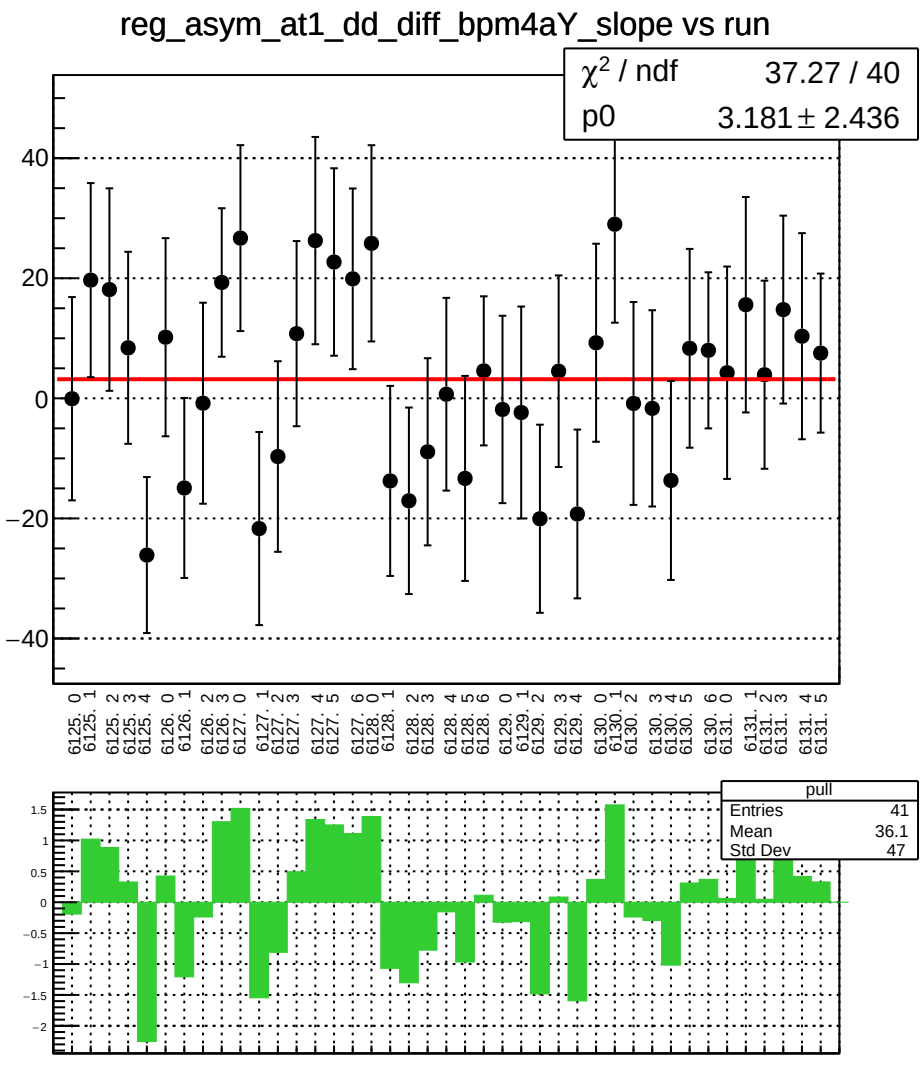

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 54.87 / 40
p0 −56.54 ± 2.574
pull
Entries 41
Mean 147.7
Std Dev 0

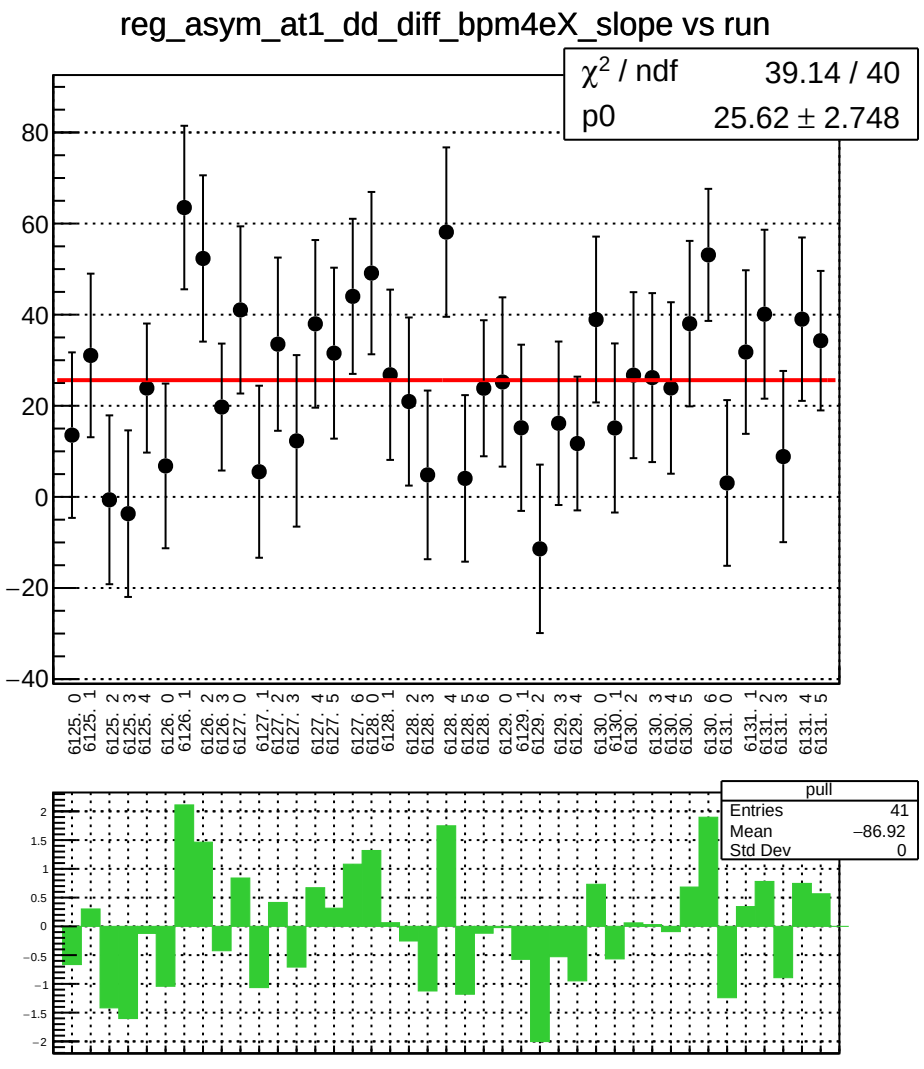

pull1D
Entries 41
Mean 0.00724
Std Dev 1.157

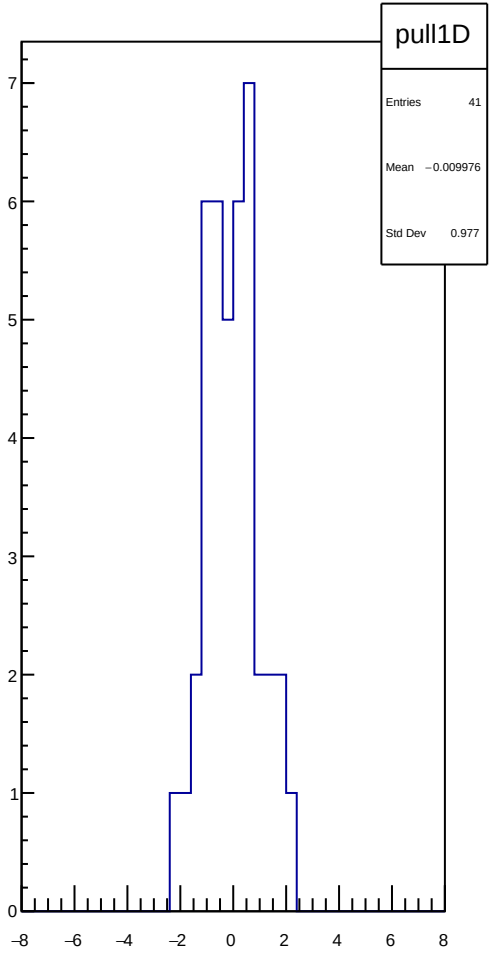

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 36.86 / 40
p0 −22.09 ± 0.2154
pull
Entries 41
Mean −110.3
Std Dev 0

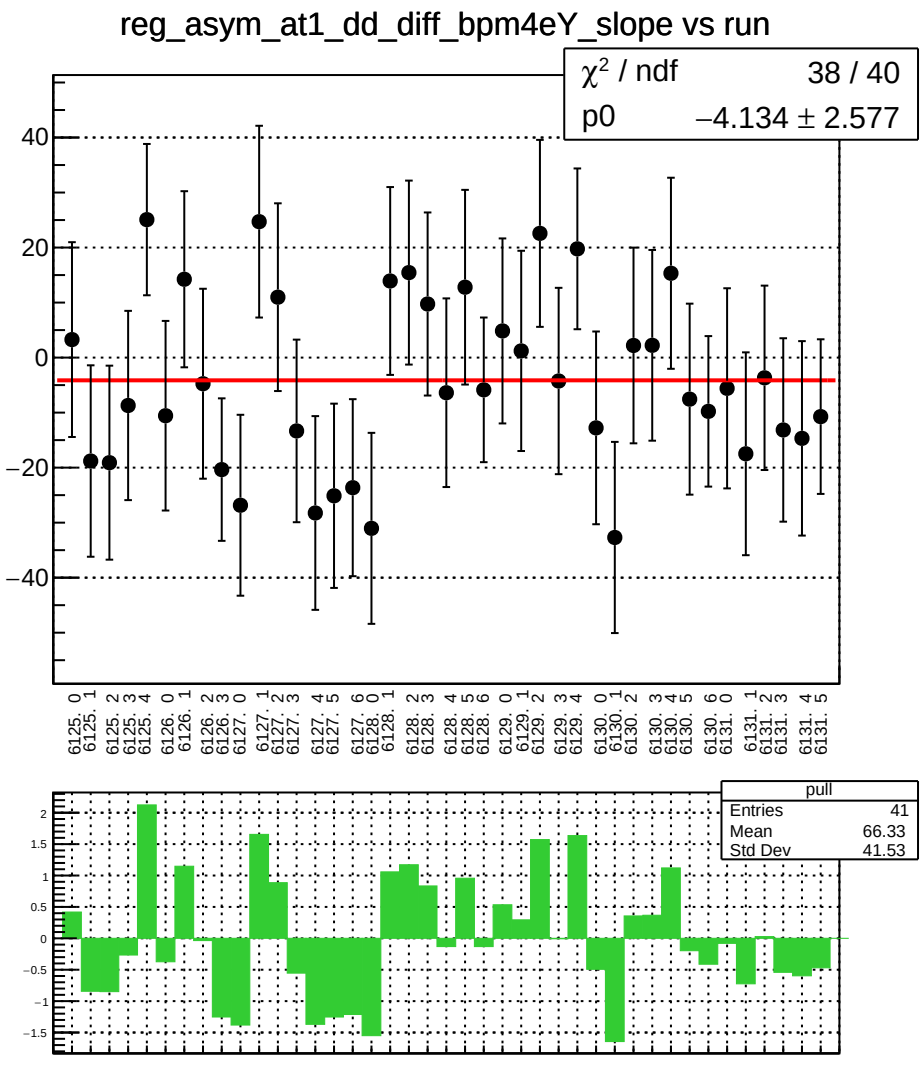

pull1D
Entries 41
Mean 0.02096
Std Dev 0.9479

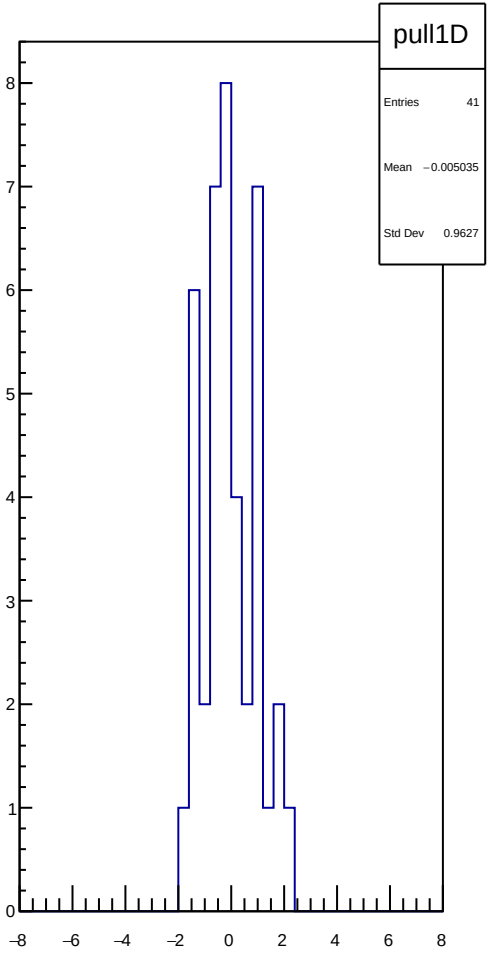

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 39.09 / 40
p0 18.4 ± 2.254
60
40
20
0
−20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −75.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.01078
Std Dev 0.9763
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

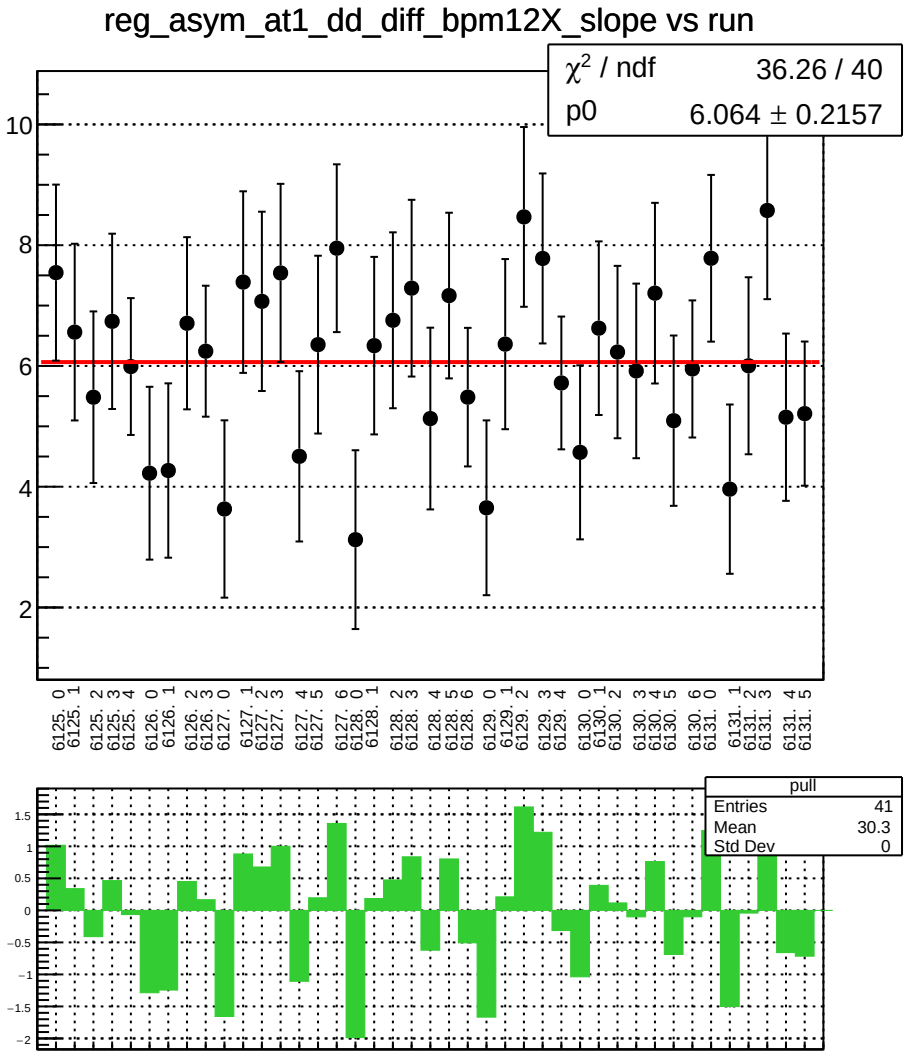

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 37.27 / 40
p0 3.181 ± 2.436
40
20
0
−20
−40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 36.1
Std Dev 47
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.009134
Std Dev 0.9534
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

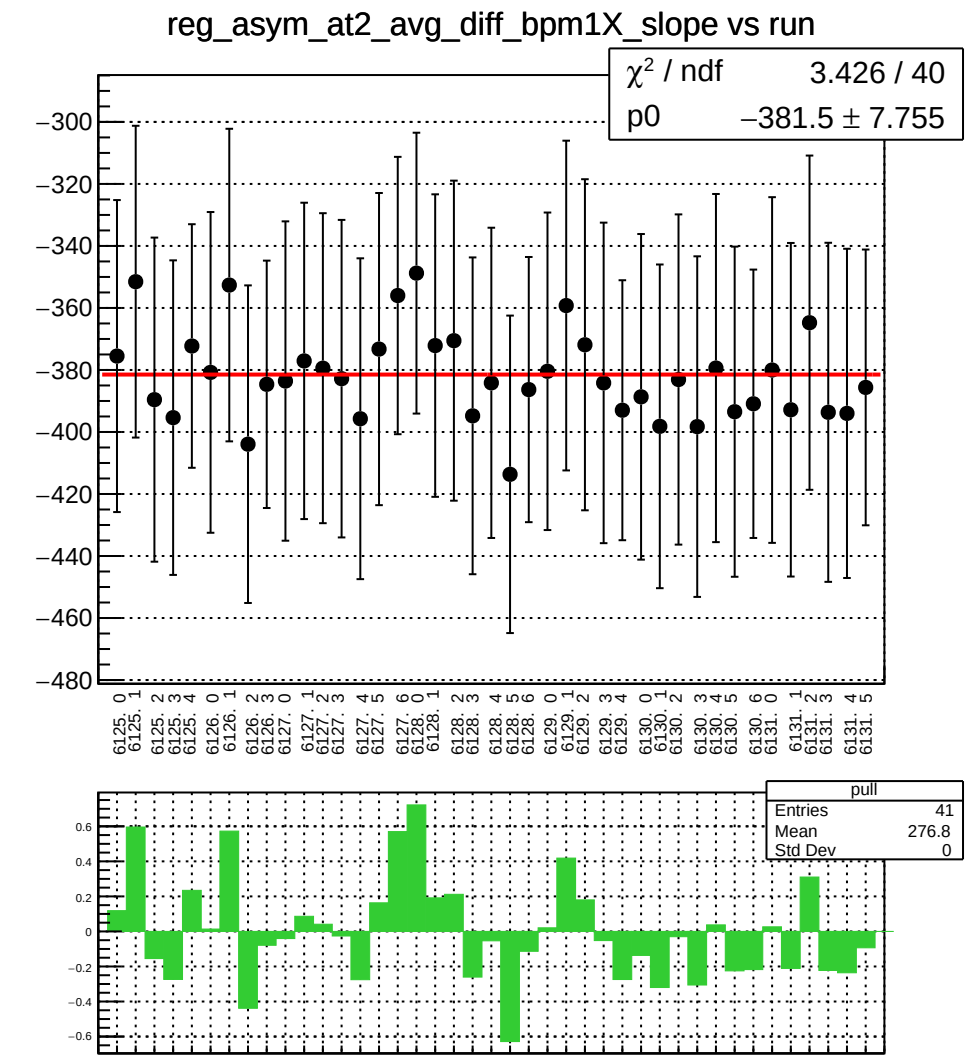

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 39.14 / 40
p0 25.62 ± 2.748
pull
Entries 41
Mean −86.92
Std Dev 0

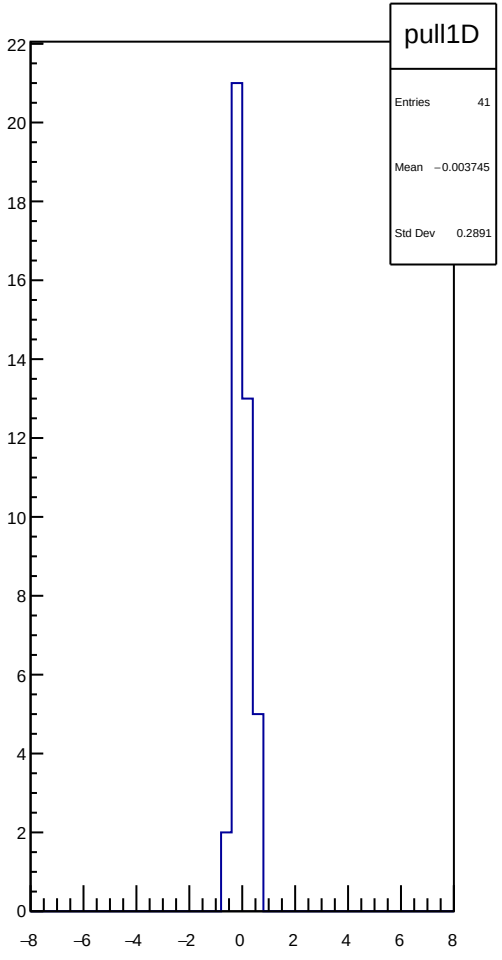

pull1D
Entries 41
Mean −0.009976
Std Dev 0.977

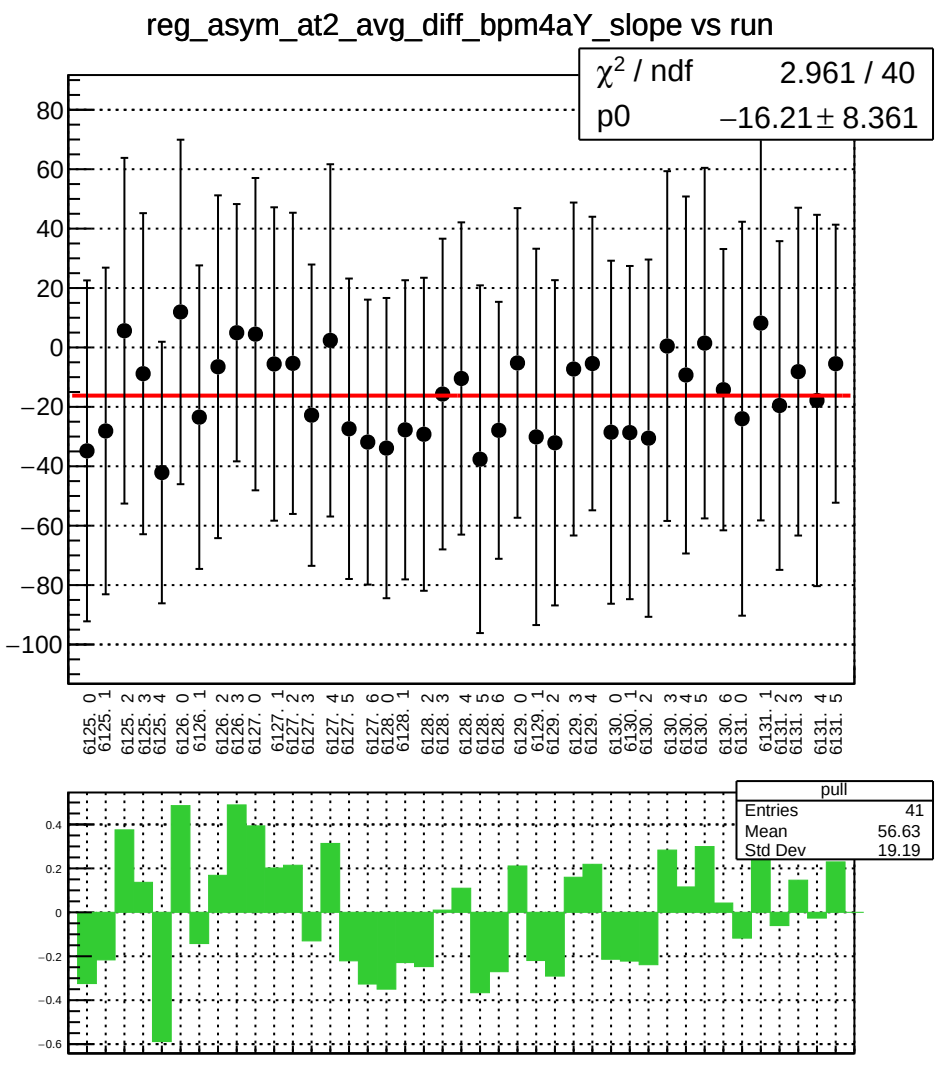

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 38 / 40
p0 −4.134 ± 2.577
40
20
0
−20
−40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 66.33
Std Dev 41.53
2
1.5
1
0.5
0
−0.5
−1
−1.5

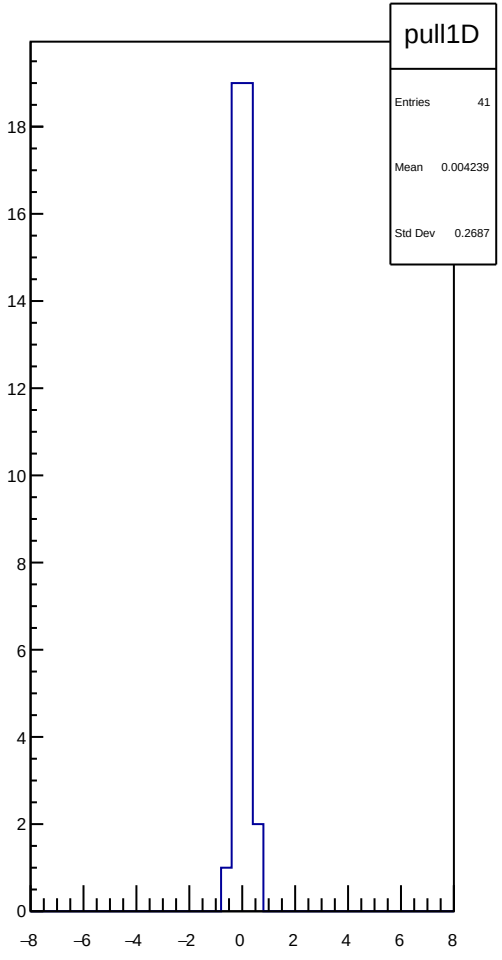

pull1D
Entries 41
Mean −0.005035
Std Dev 0.9627
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

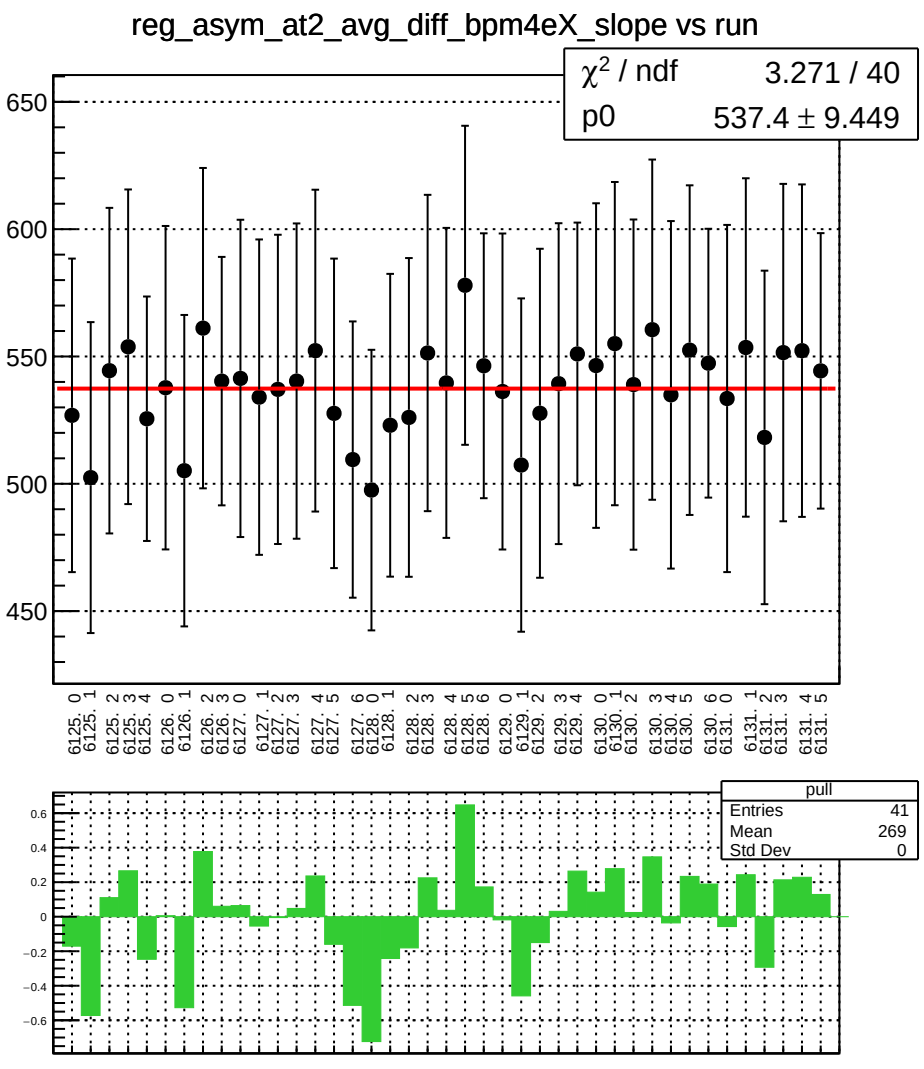

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 36.26 / 40
p0 6.064 ± 0.2157
pull
Entries 41
Mean 30.3
Std Dev 0
pull1D
Entries 41
Mean 0.01019
Std Dev 0.9403

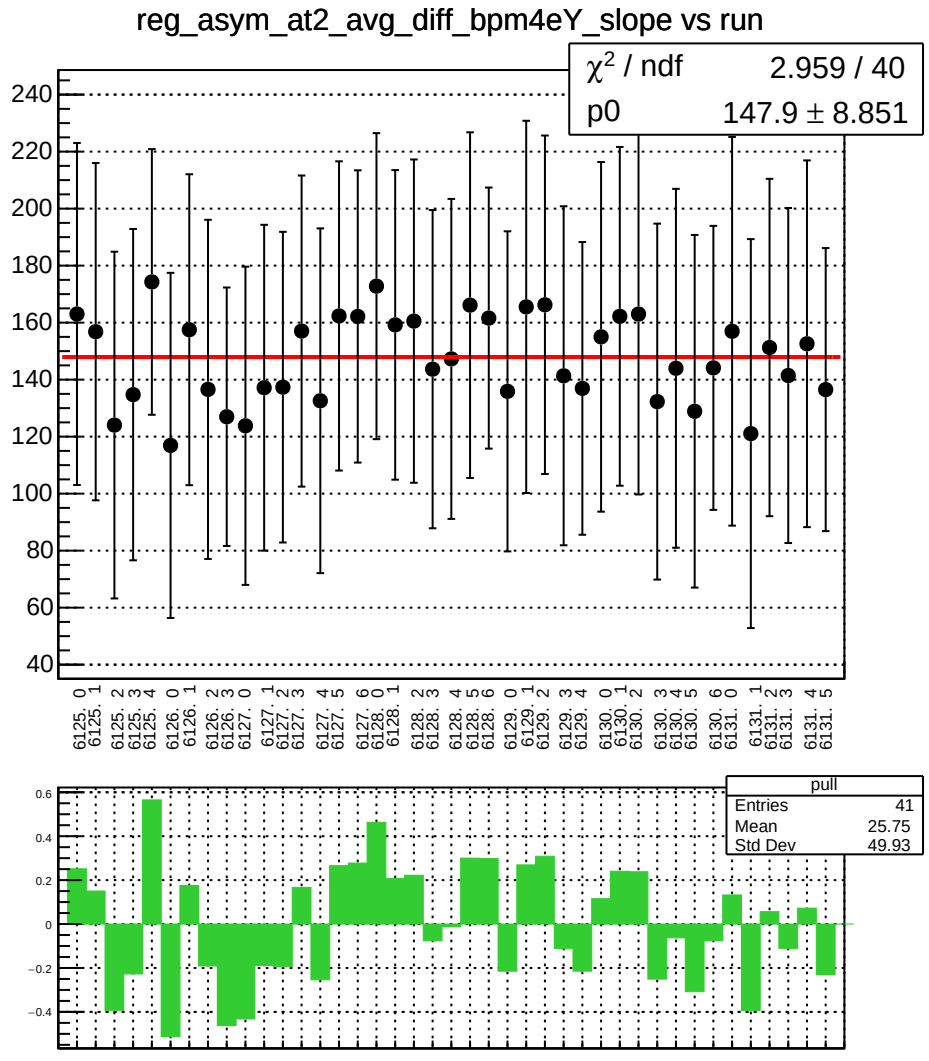

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 3.426 / 40
p0 −381.5 ± 7.755
pull
Entries 41
Mean 276.8
Std Dev 0

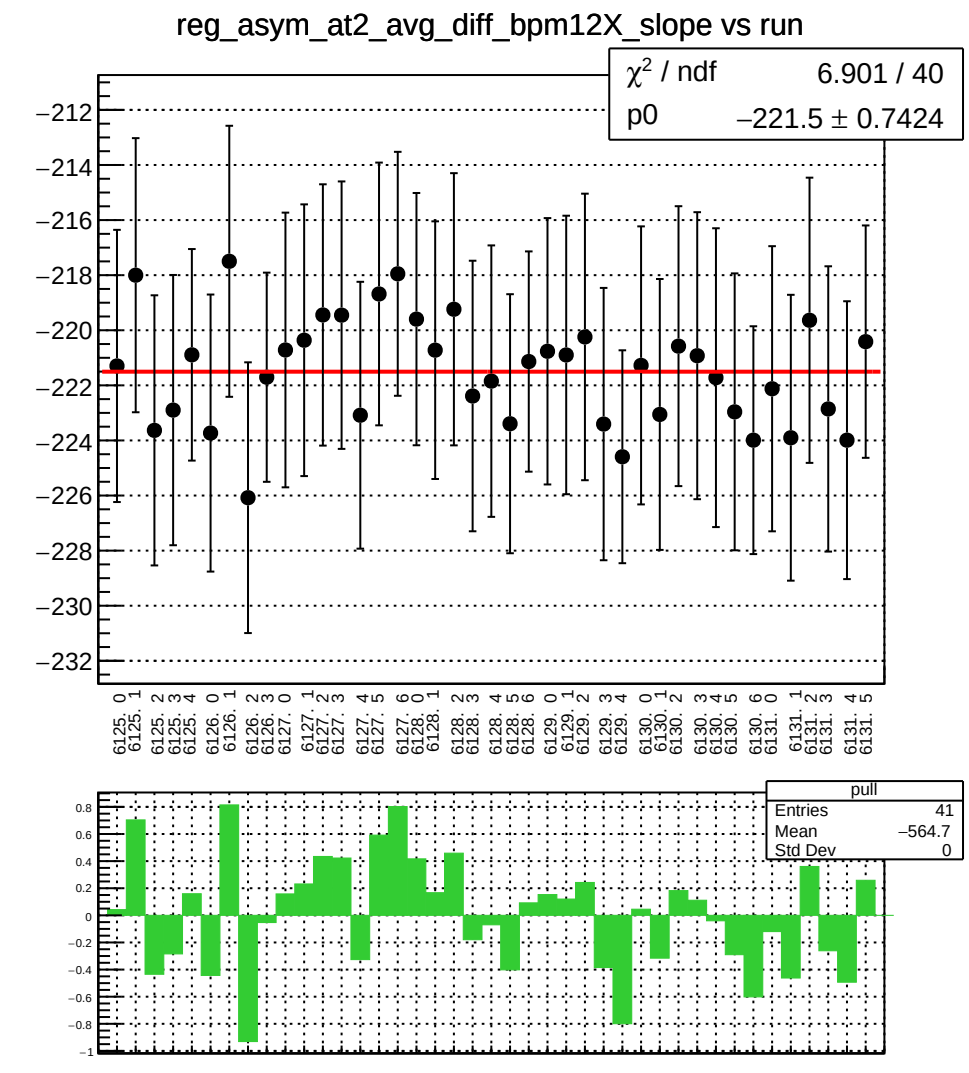

pull1D
Entries 41
Mean −0.003745
Std Dev 0.2891

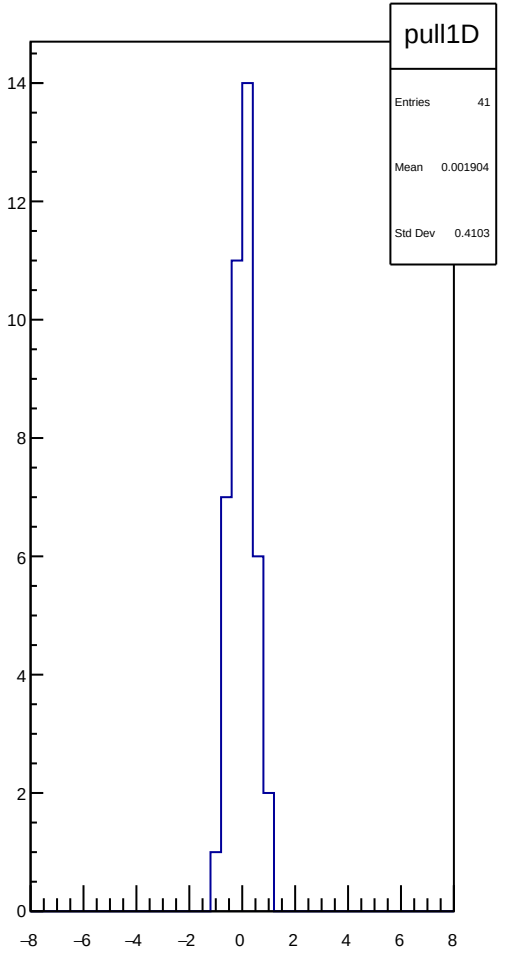

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.961 / 40
p0 −16.21 ± 8.361
pull
Entries 41
Mean 56.63
Std Dev 19.19

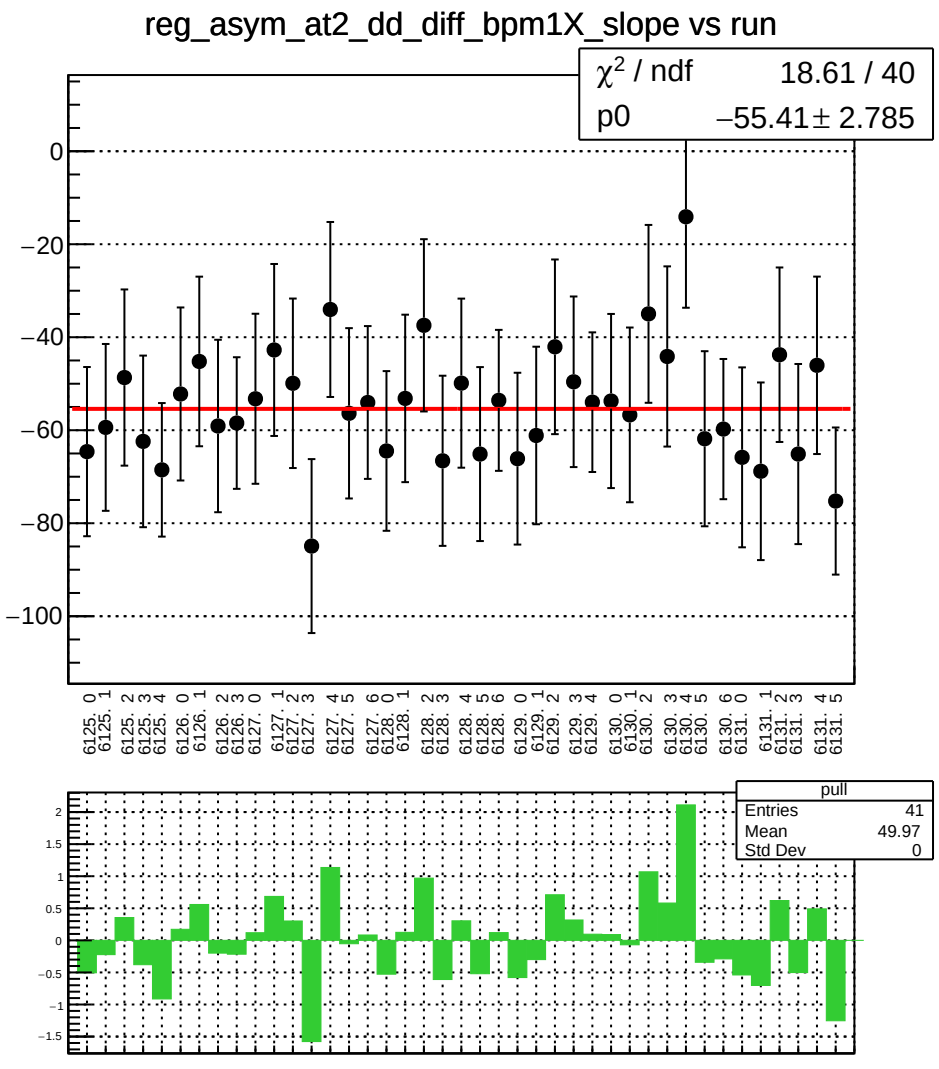

pull1D
Entries 41
Mean 0.004239
Std Dev 0.2687

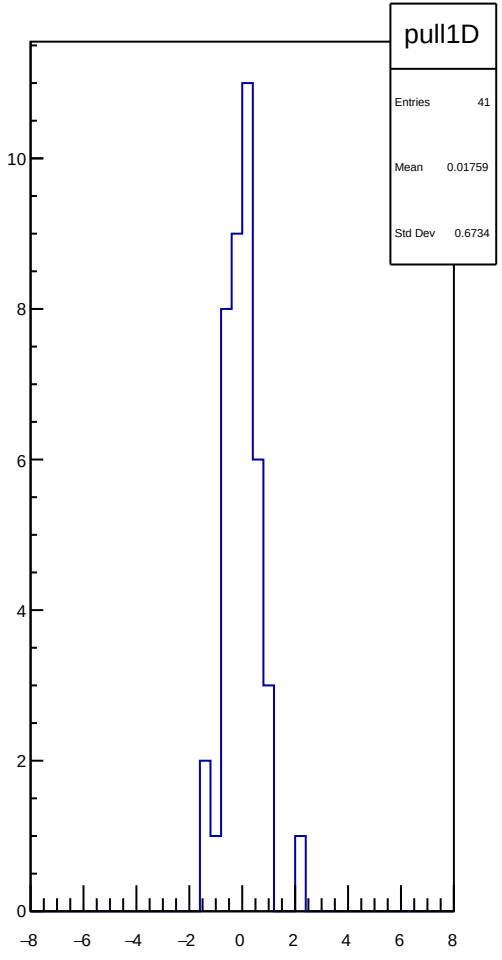

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.271 / 40
p0 537.4 ± 9.449
650
600
550
500
450
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 269
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean 0.003992
Std Dev 0.2824
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

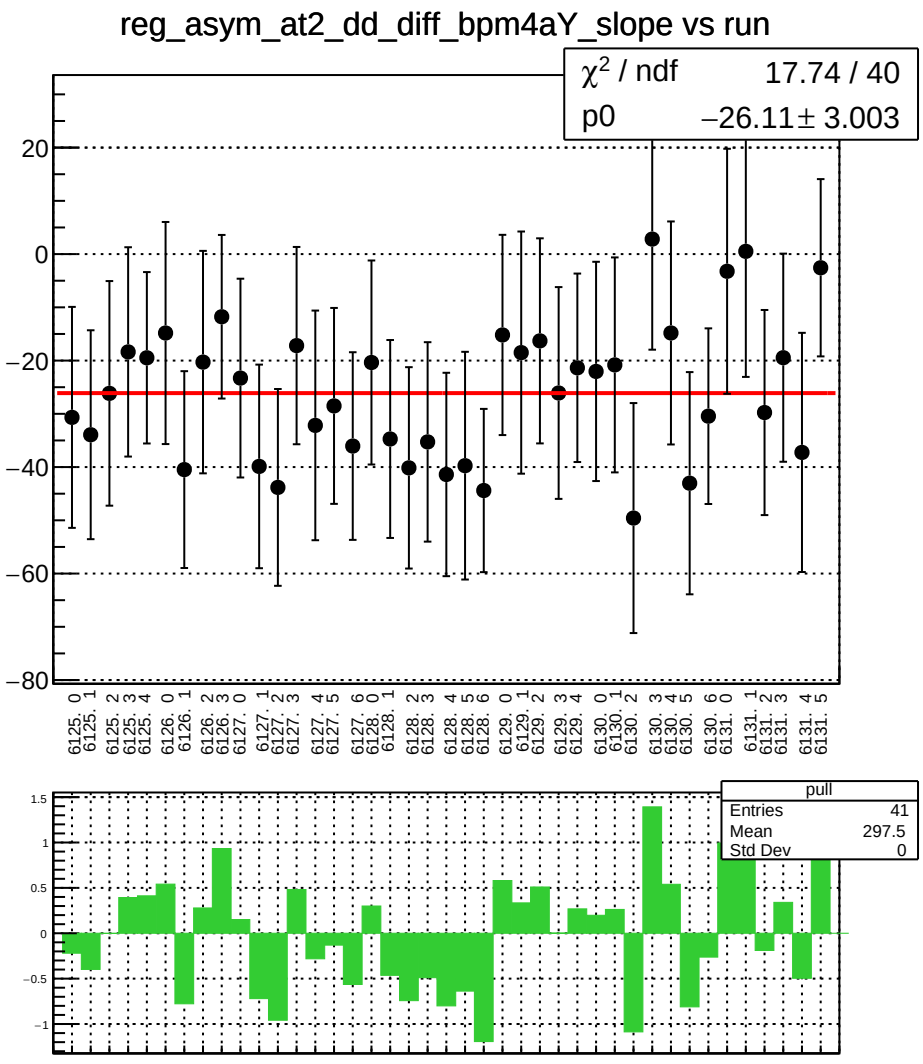

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.959 / 40
p0 147.9 ± 8.851
240
220
200
180
160
140
120
100
80
60
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 25.75
Std Dev 49.93
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 41
Mean −0.003391
Std Dev 0.2686
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

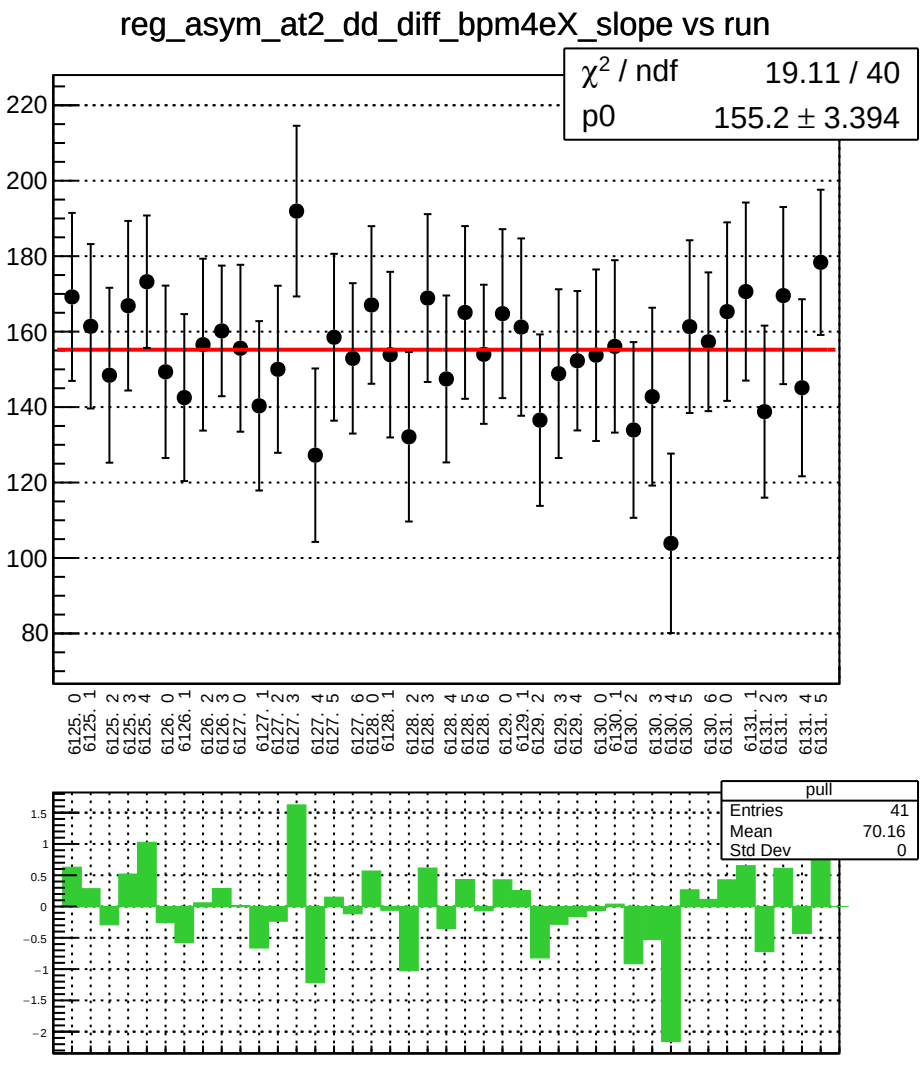

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 6.901 / 40
p0 −221.5 ± 0.7424
pull
Entries 41
Mean −564.7
Std Dev 0

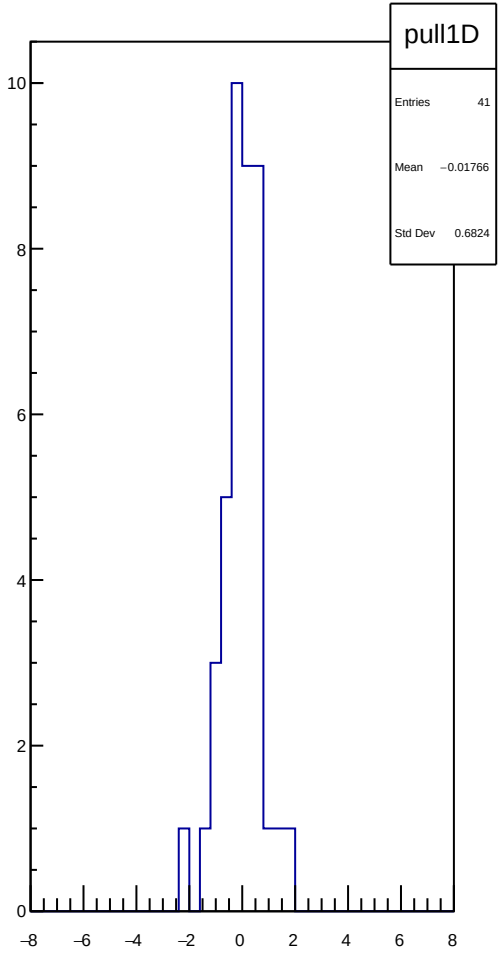

pull1D
Entries 41
Mean 0.001904
Std Dev 0.4103

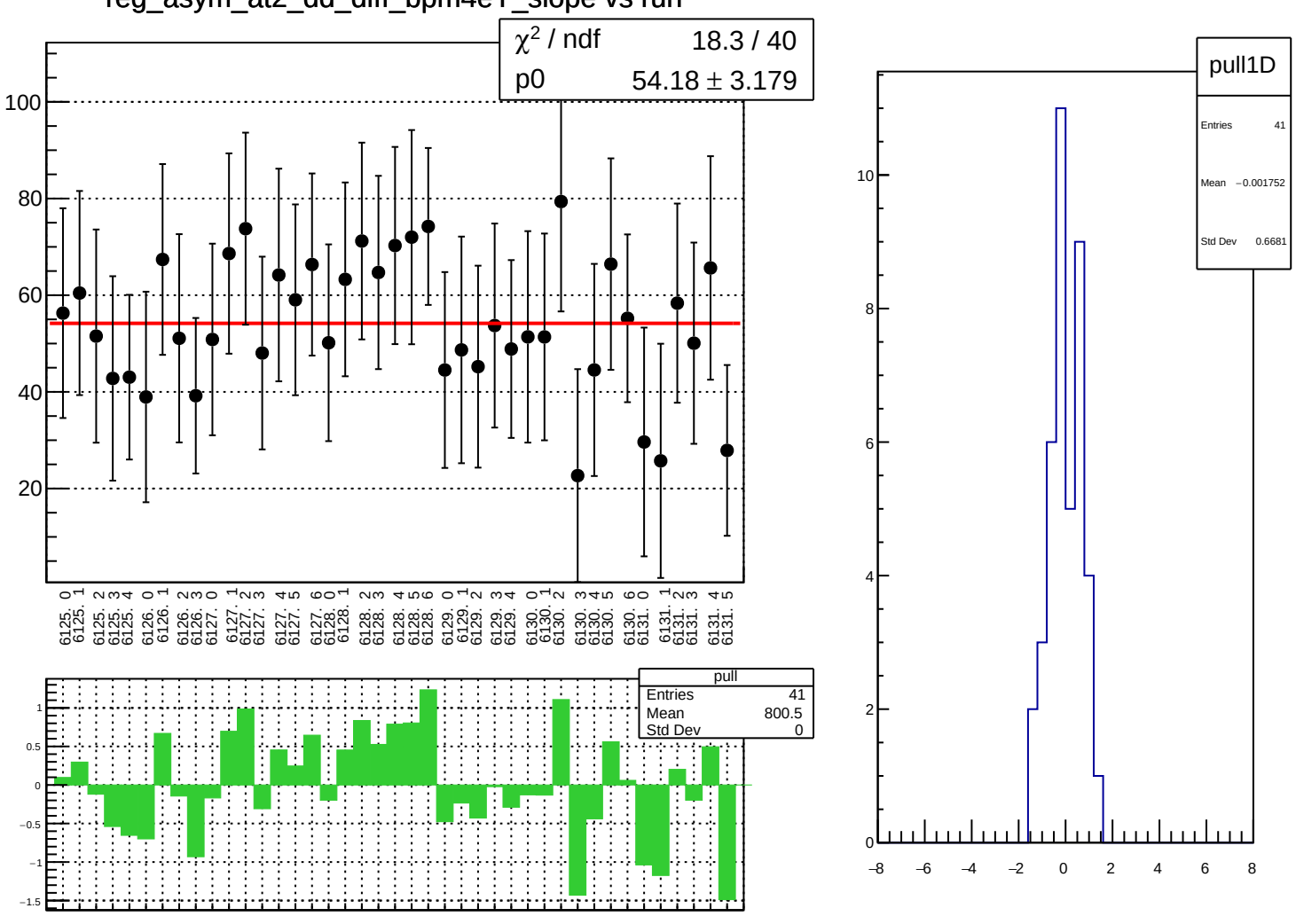

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 18.61 / 40
p0 −55.41± 2.785
0
−20
−40
−60
−80
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 49.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

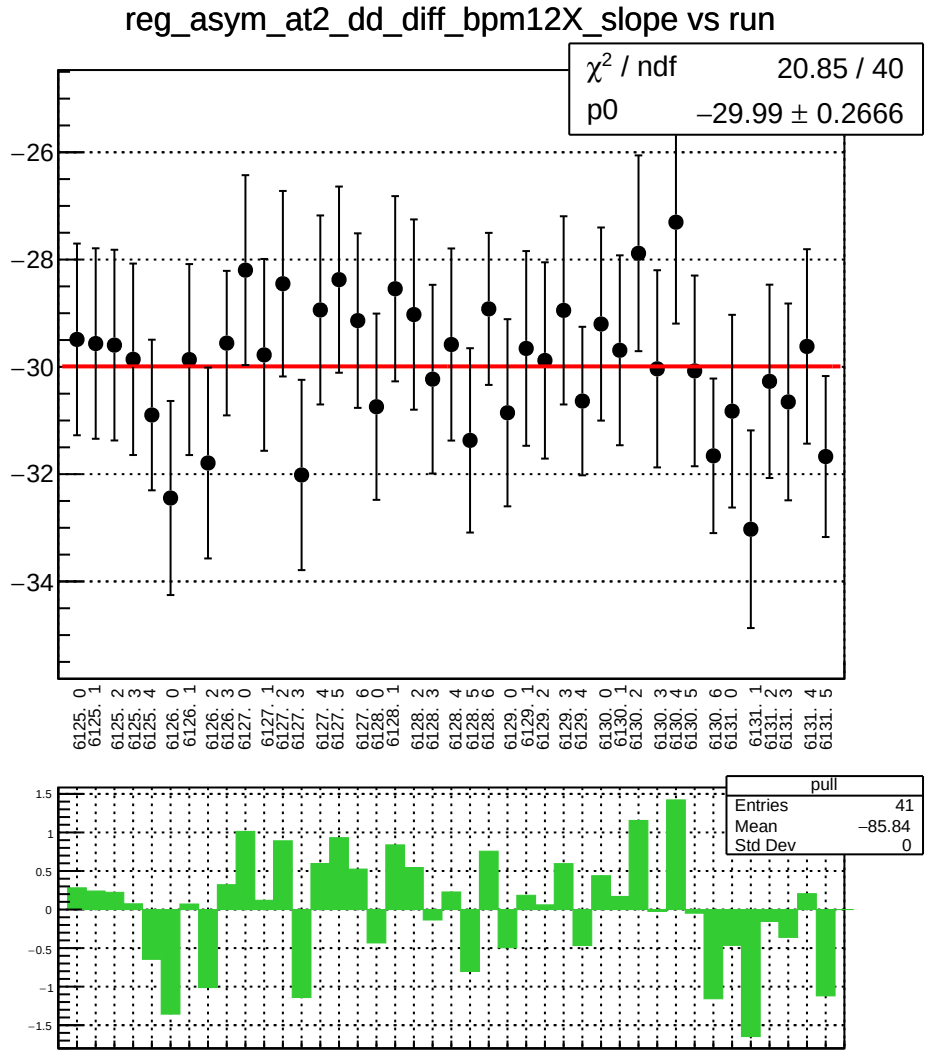

pull1D
Entries 41
Mean 0.01759
Std Dev 0.6734
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

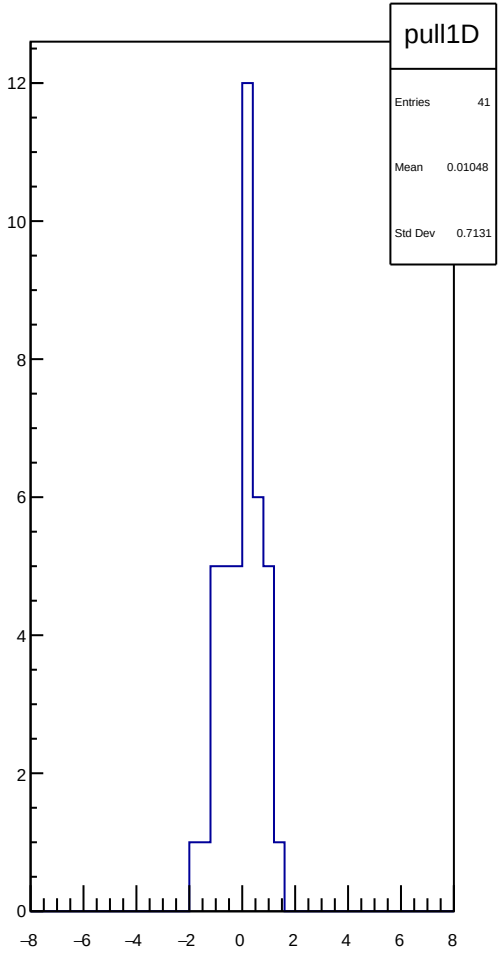

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.74 / 40
p0 −26.11± 3.003
20
0
−20
−40
−60
−80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 297.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.005688
Std Dev 0.6577
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

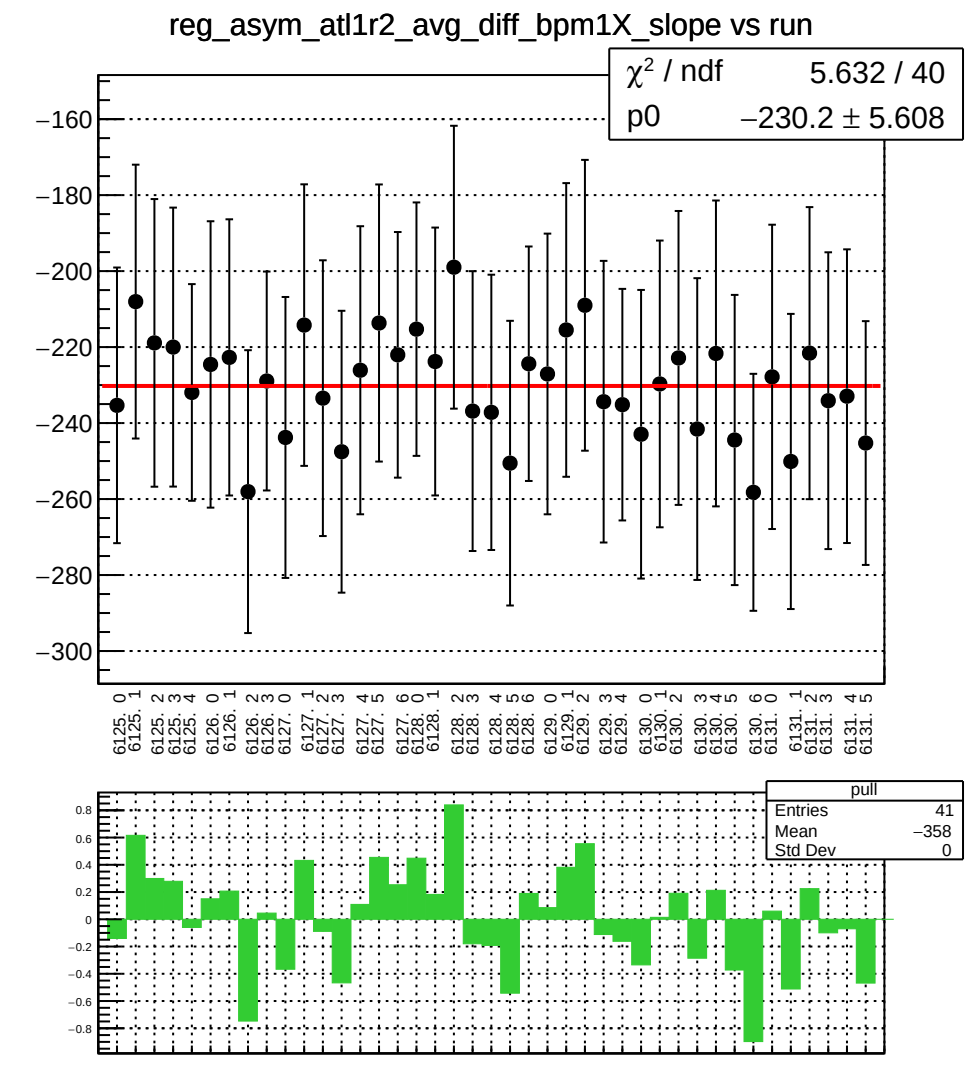

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.11 / 40
p0 155.2 ± 3.394
220
200
180
160
140
120
100
80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 70.16
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

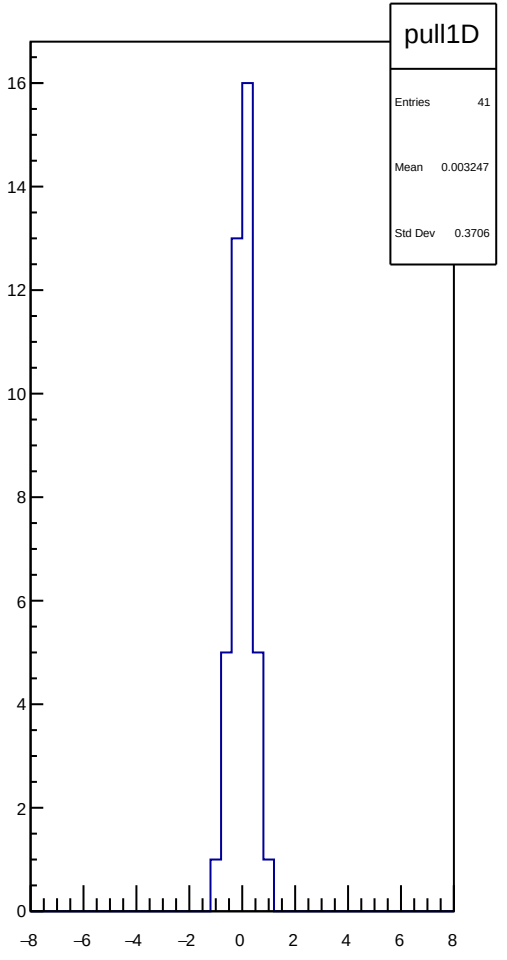

pull1D
Entries 41
Mean −0.01766
Std Dev 0.6824
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

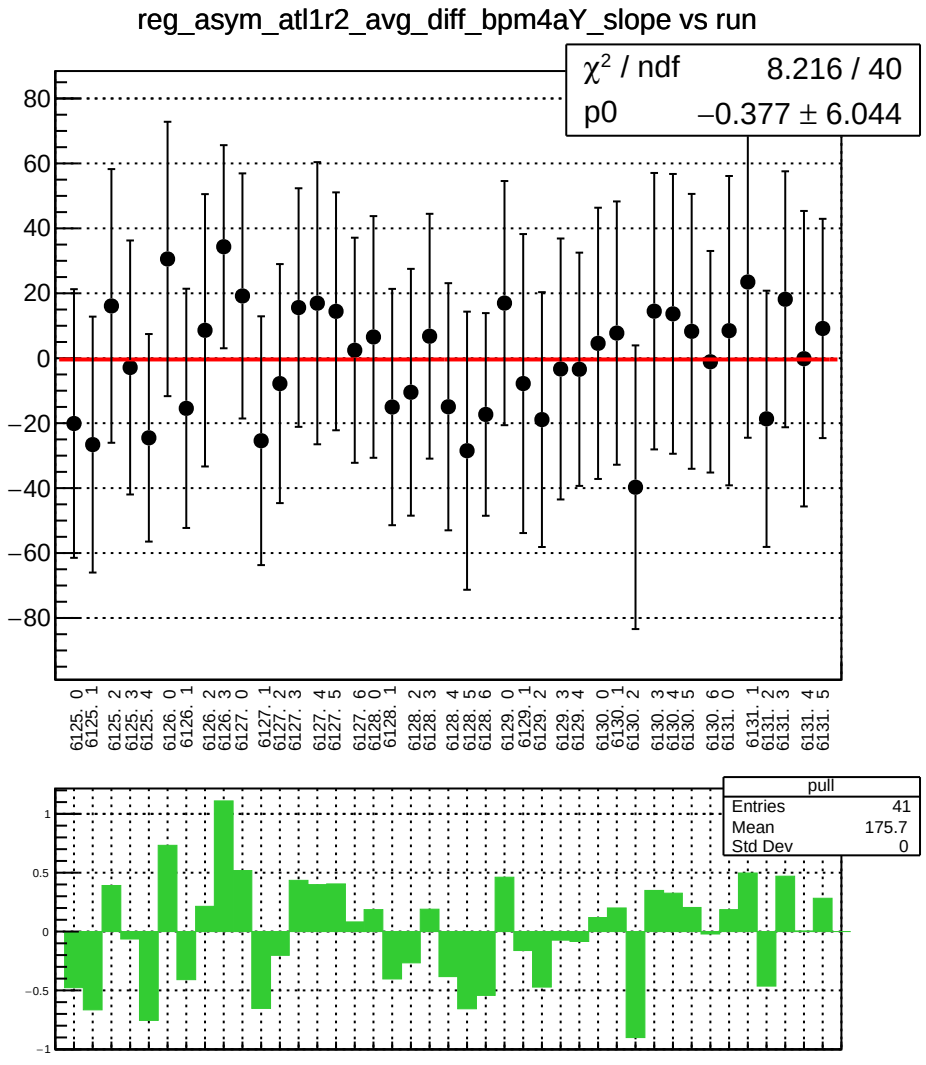

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.3 / 40
p0 54.18 ± 3.179
100
80
60
40
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 800.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.001752
Std Dev 0.6681
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

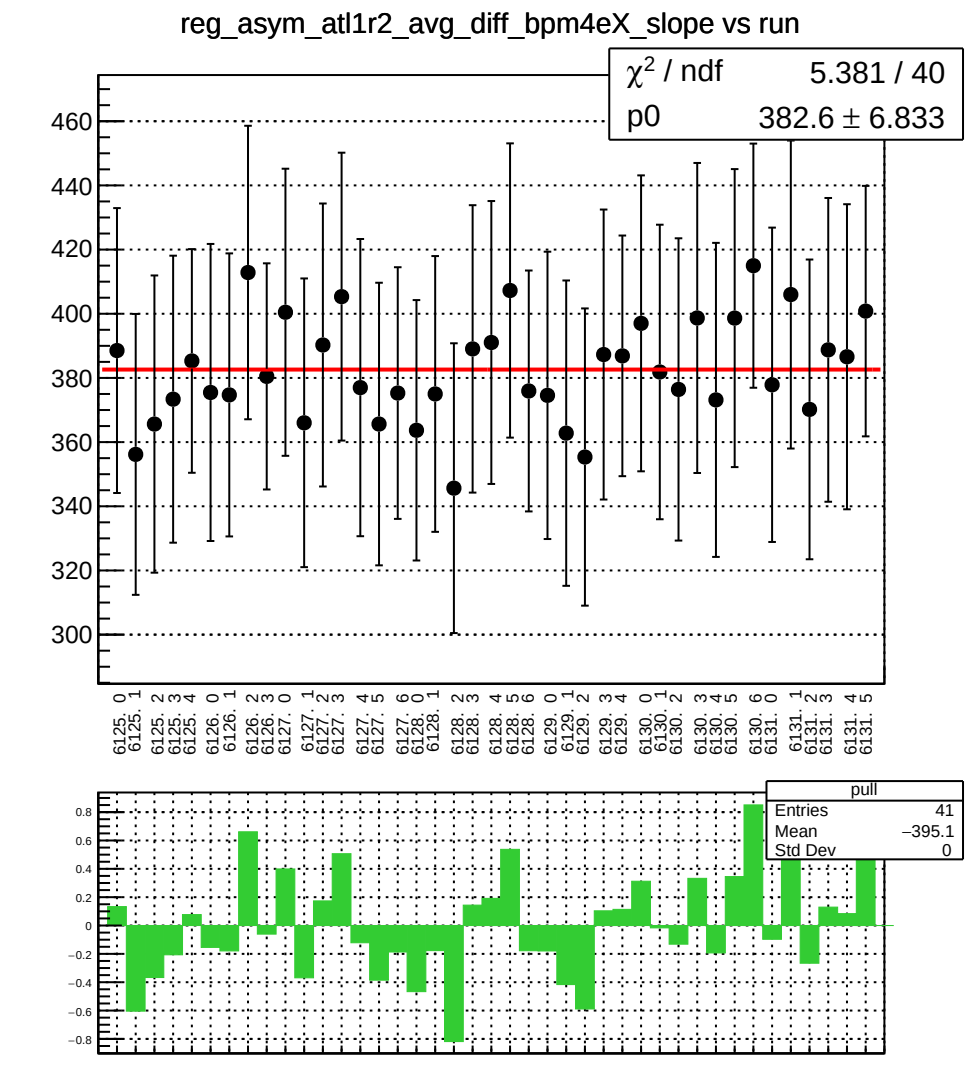

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 20.85 / 40
p0 −29.99 ± 0.2666
−26
−28
−30
−32
−34
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −85.84
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

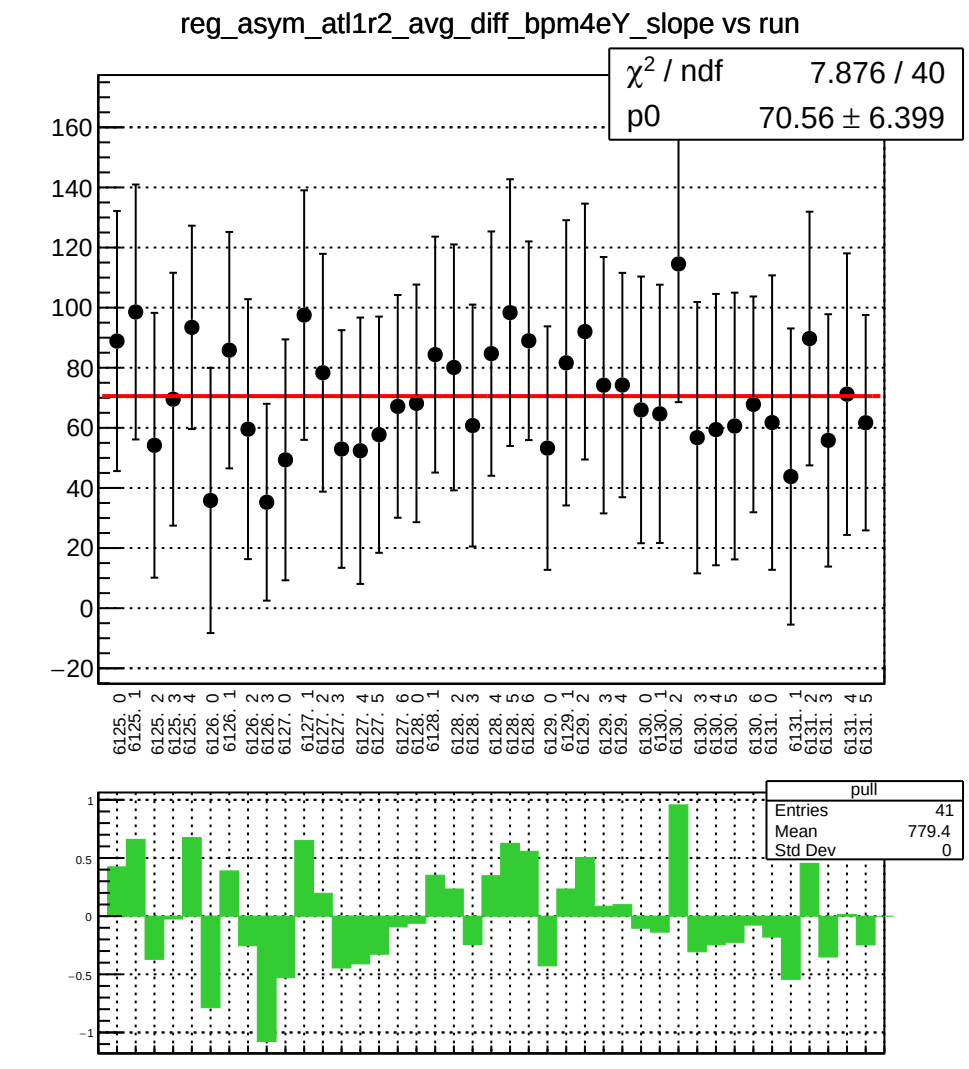

pull1D
Entries 41
Mean 0.01048
Std Dev 0.7131
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

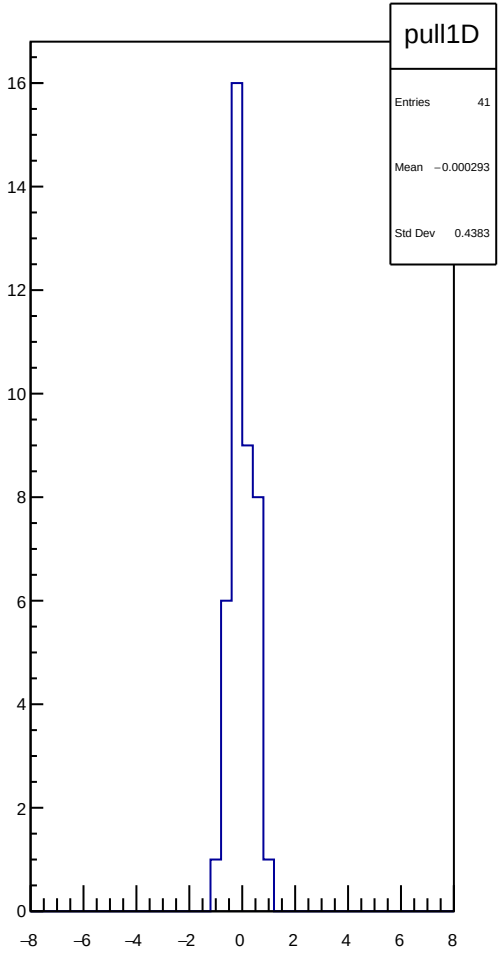

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 5.632 / 40
p0 −230.2 ± 5.608
−160
−180
−200
−220
−240
−260
−280
−300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −358
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

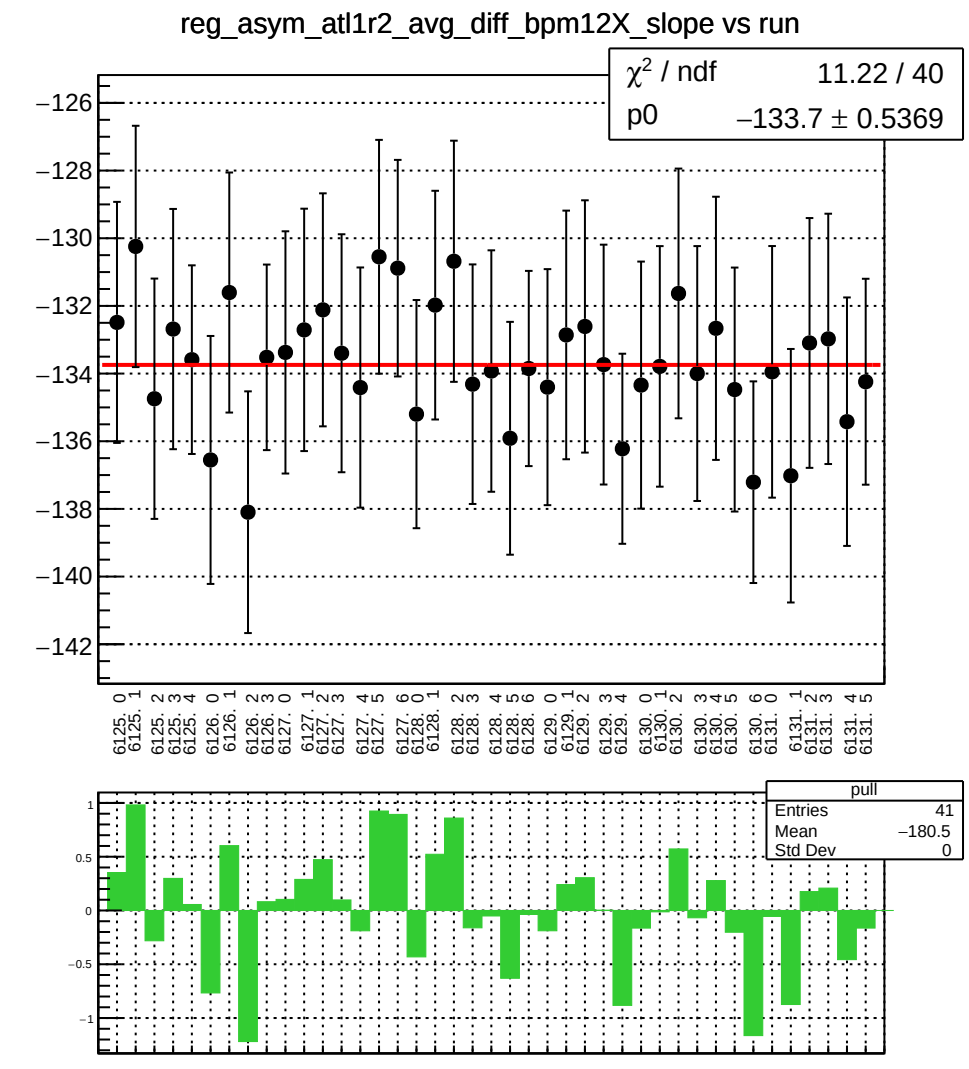

pull1D
Entries 41
Mean 0.003247
Std Dev 0.3706
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

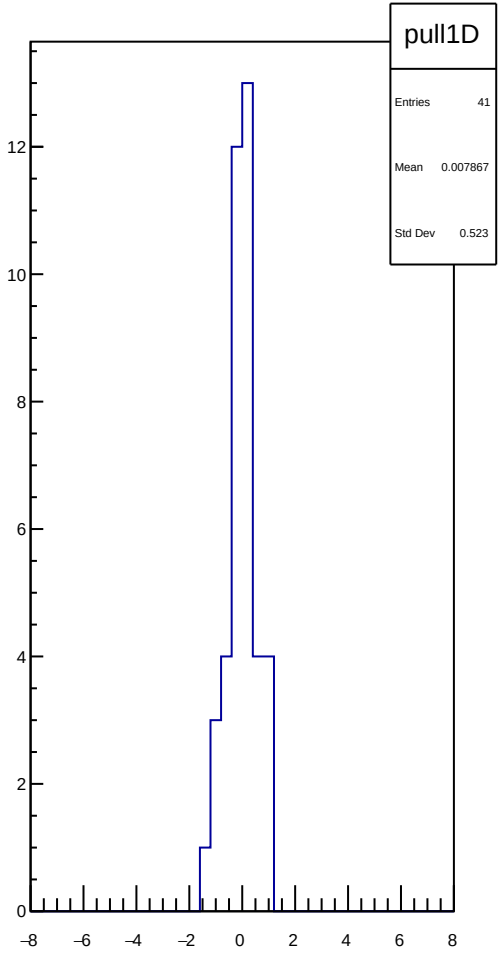

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.216 / 40
p0 −0.377 ± 6.044
pull
Entries 41
Mean 175.7
Std Dev 0
pull1D
Entries 41
Mean 0.002803
Std Dev 0.4477

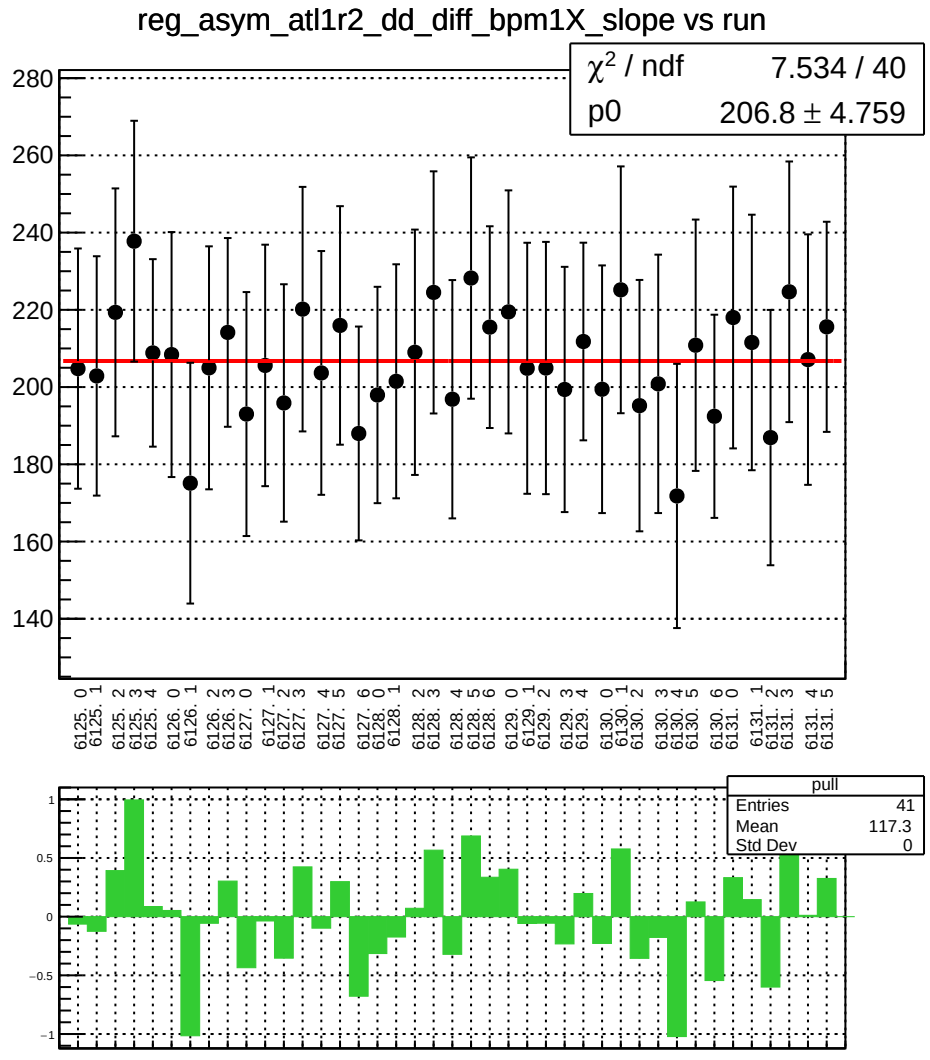

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.381 / 40
p0 382.6 ± 6.833
460
440
420
400
380
360
340
320
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −395.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean −0.002736
Std Dev 0.3623
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

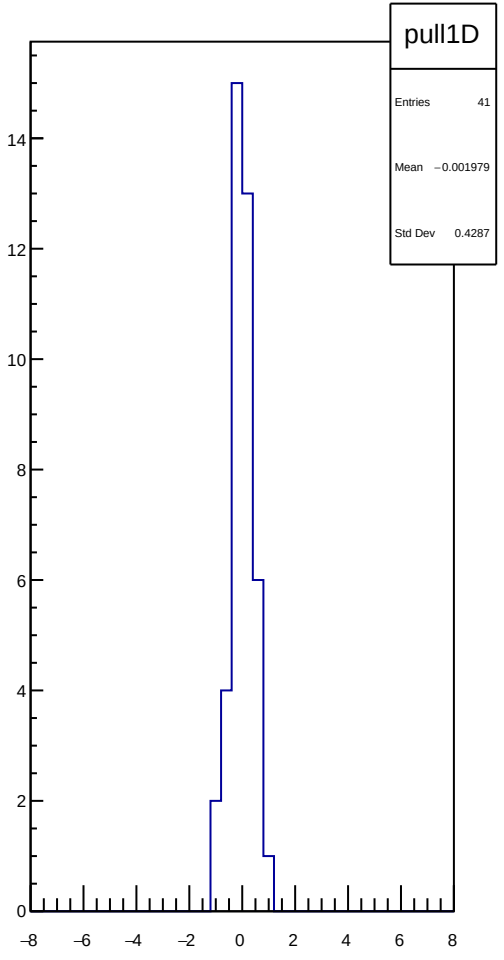

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.876 / 40
p0 70.56 ± 6.399
160
140
120
100
80
60
40
20
0
−20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 779.4
Std Dev 0
1
0.5
0
−0.5
−1

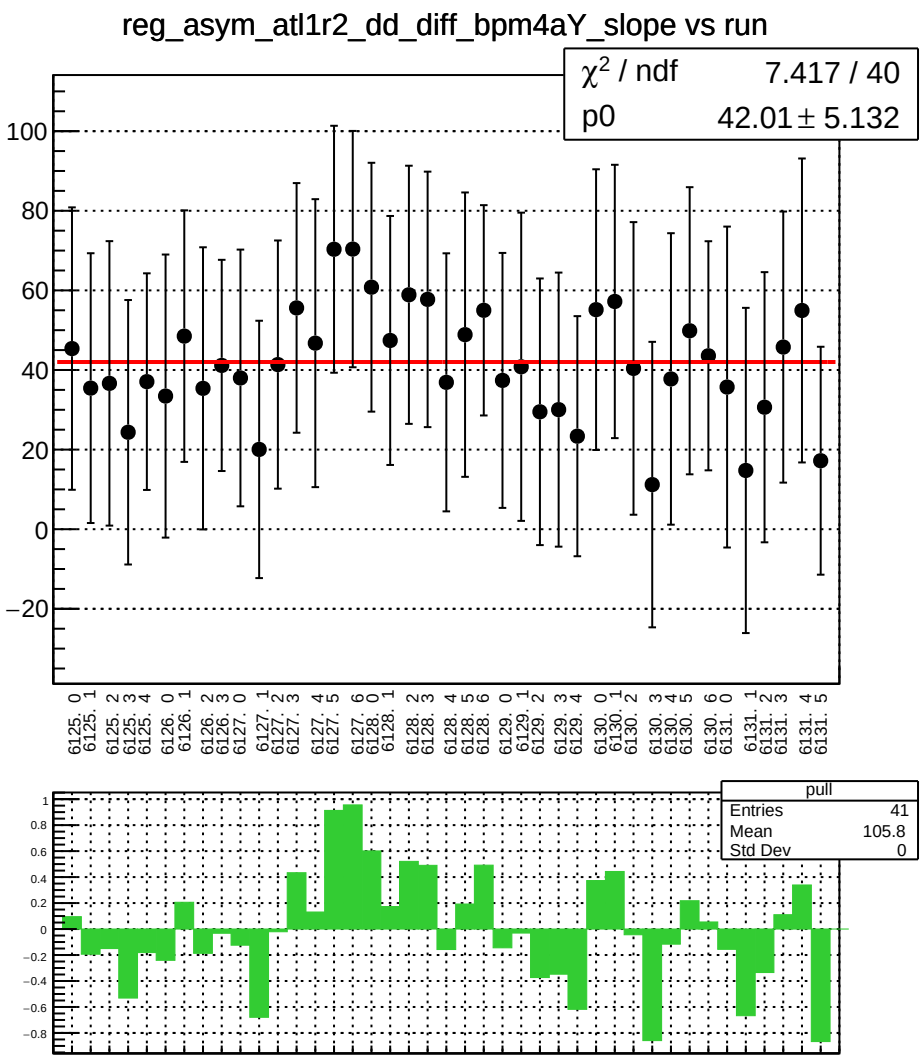

pull1D
Entries 41
Mean −0.000293
Std Dev 0.4383
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

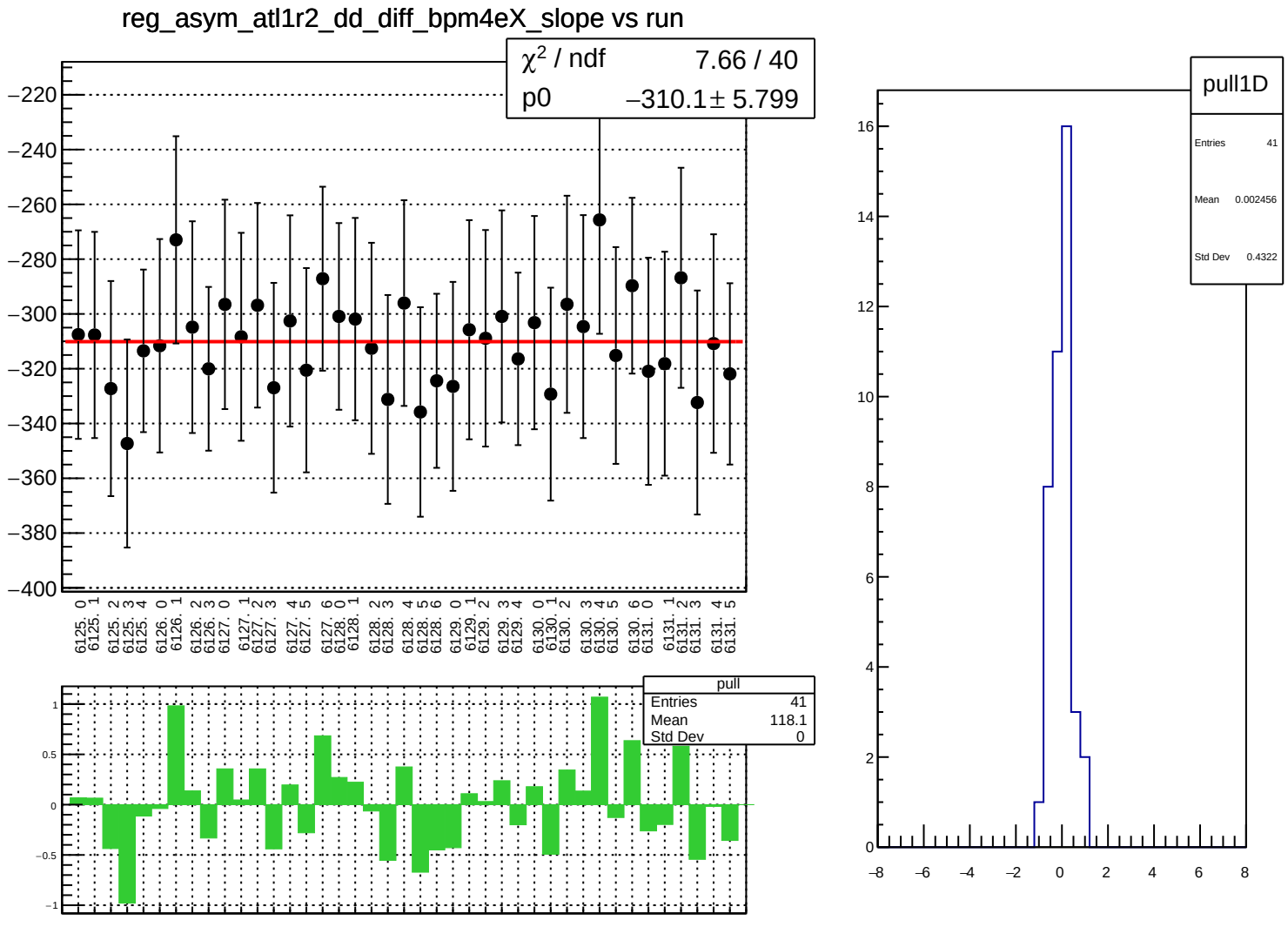

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 11.22 / 40
p0 −133.7 ± 0.5369
pull
Entries 41
Mean −180.5
Std Dev 0

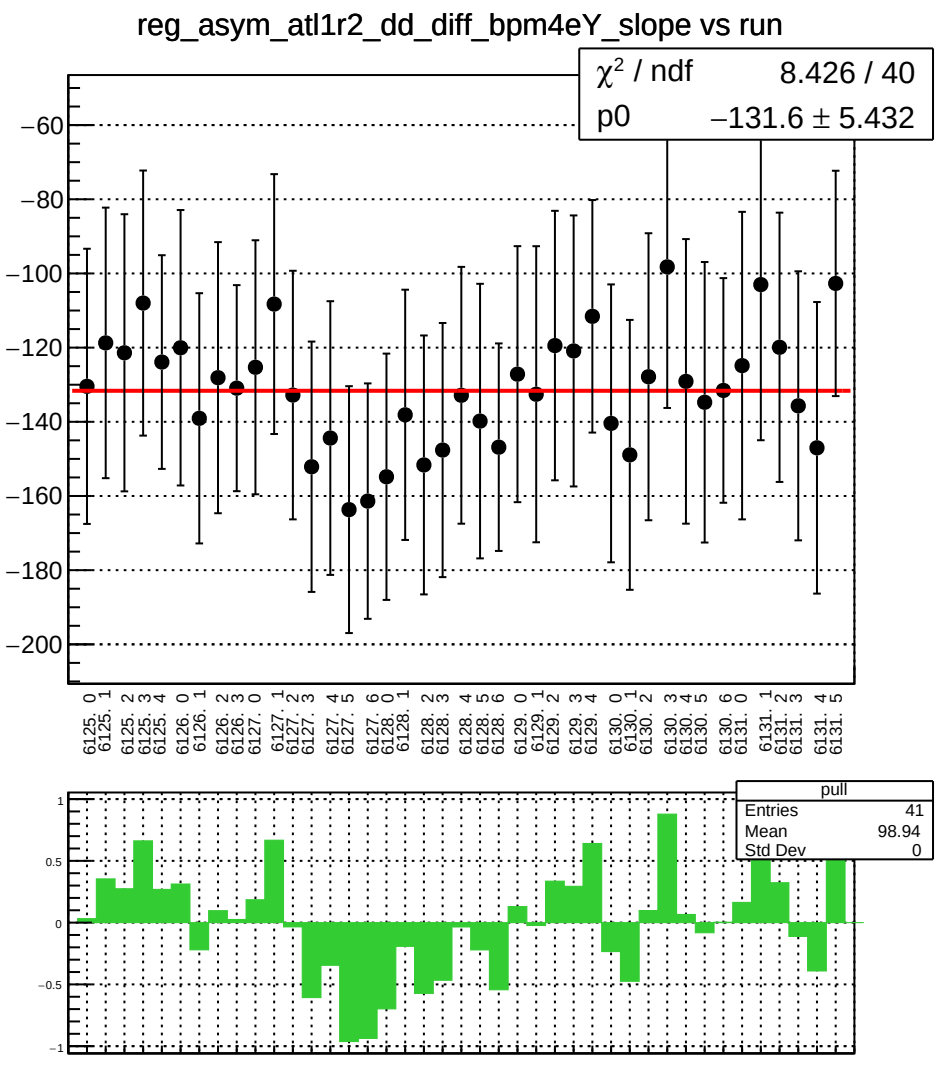

pull1D
Entries 41
Mean 0.007867
Std Dev 0.523

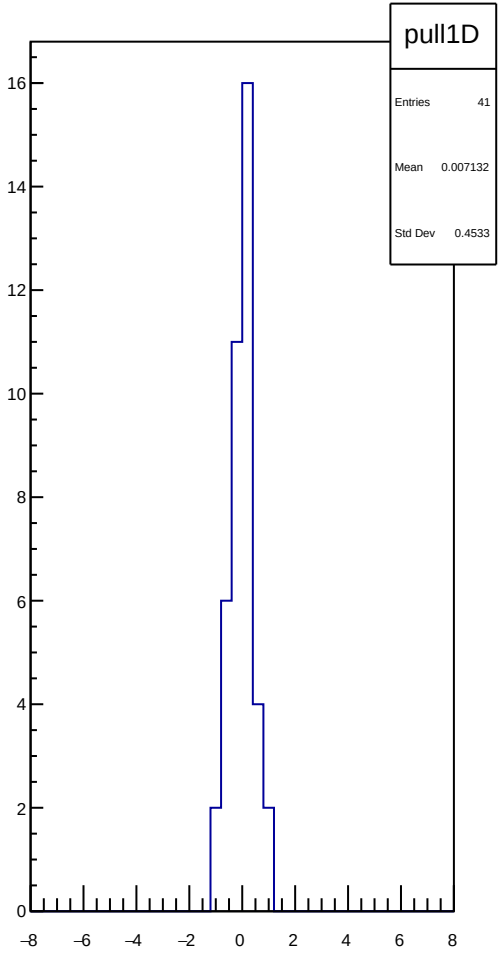

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 7.534 / 40
p0 206.8 ± 4.759
pull
Entries 41
Mean 117.3
Std Dev 0

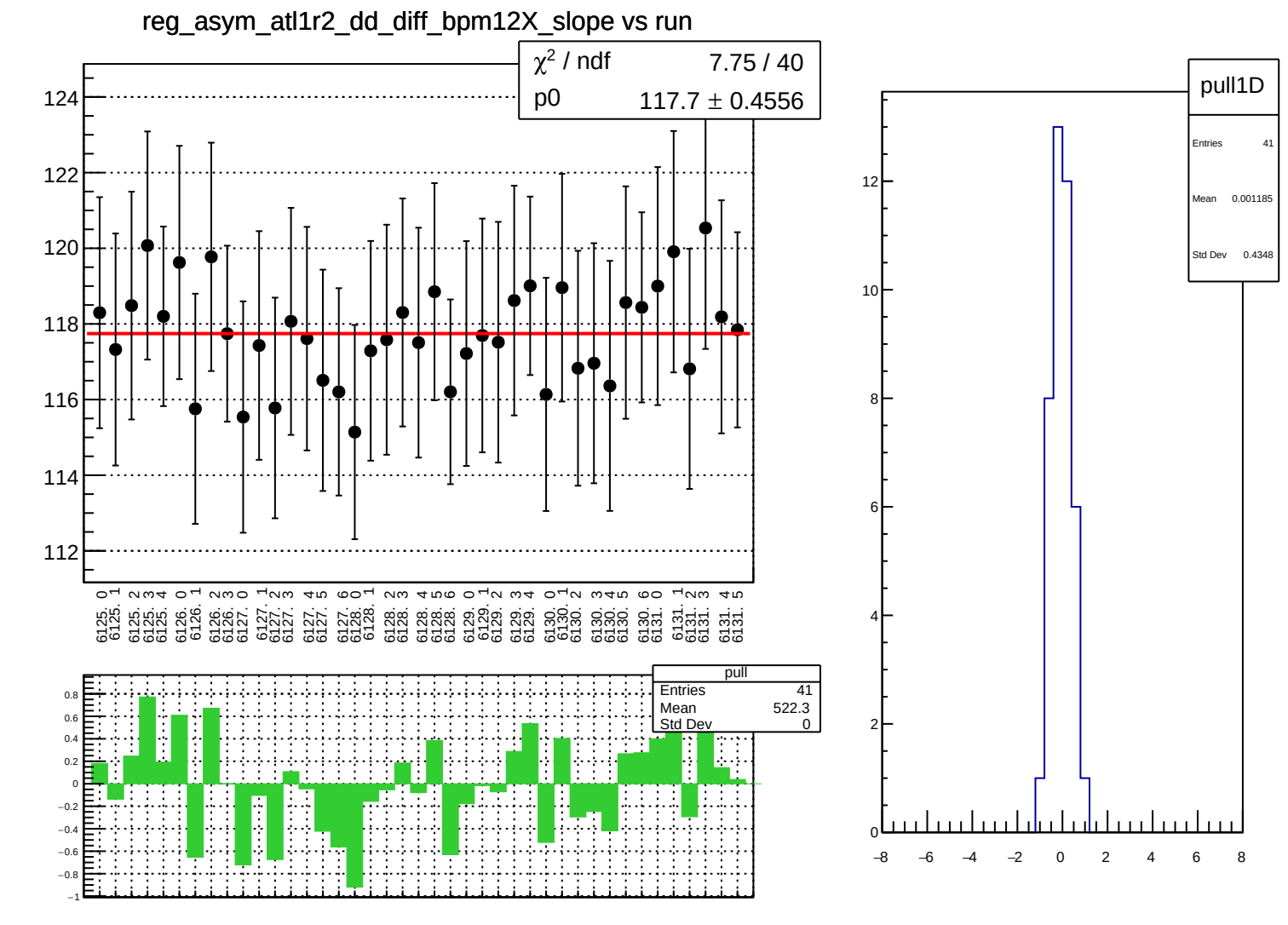

pull1D
Entries 41
Mean −0.001979
Std Dev 0.4287

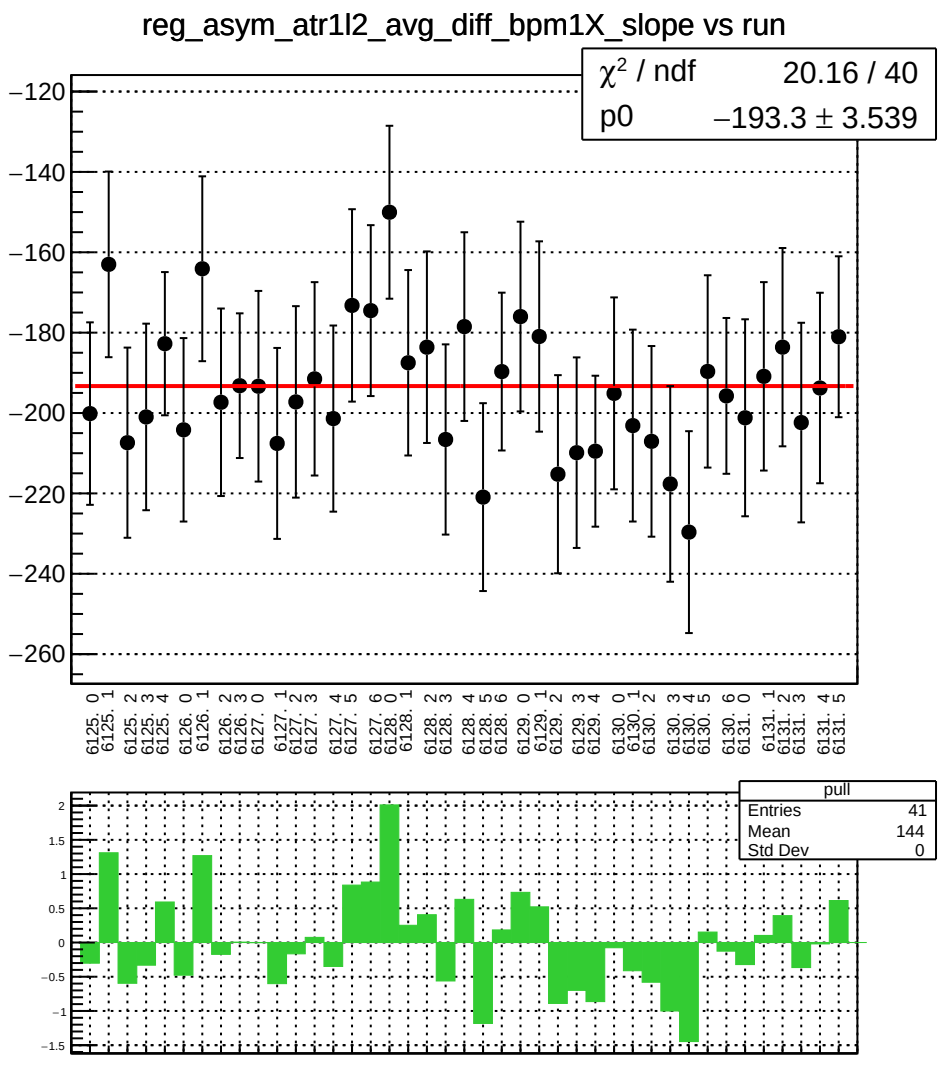

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.417 / 40
p0 42.01 ± 5.132
100
80
60
40
20
0
−20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 105.8
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean −0.007657
Std Dev 0.4253
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

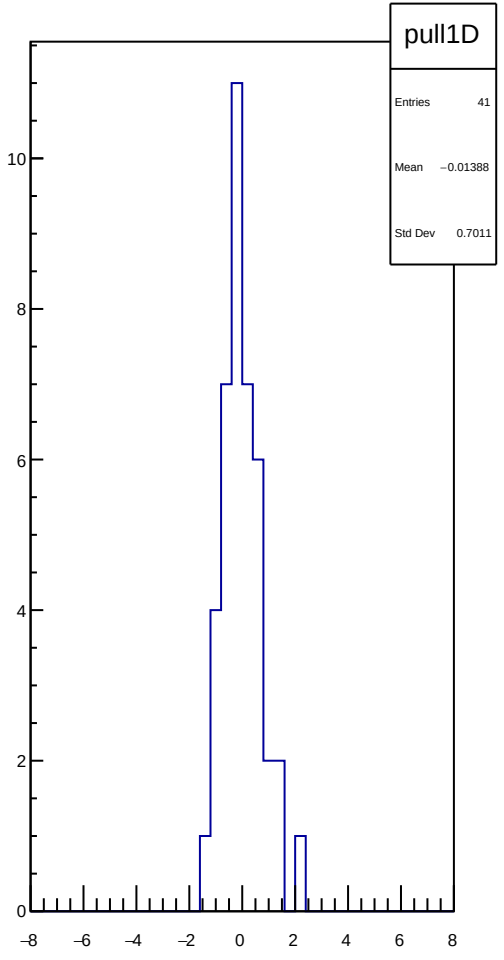

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.66 / 40
p0 −310.1 ± 5.799
pull
Entries 41
Mean 118.1
Std Dev 0
pull1D
Entries 41
Mean 0.002456
Std Dev 0.4322

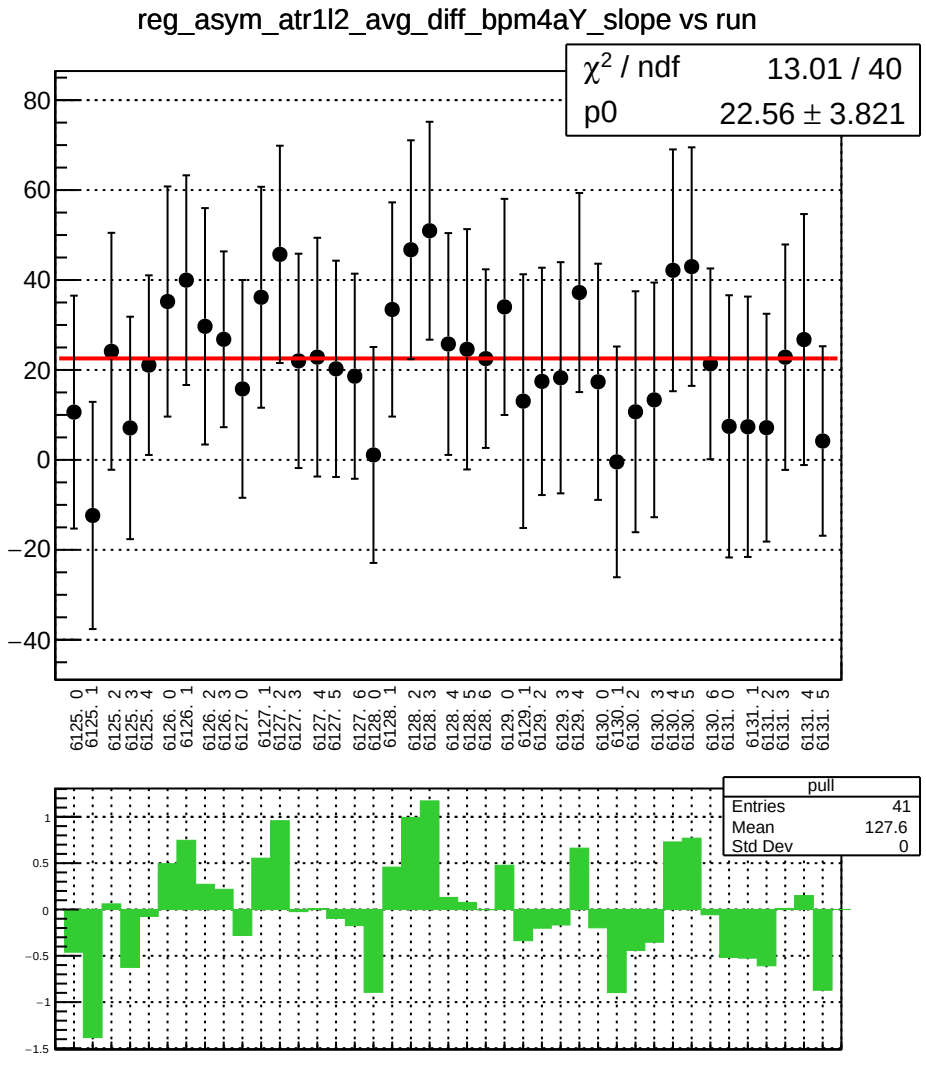

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.426 / 40
p0 −131.6 ± 5.432
−60
−80
−100
−120
−140
−160
−180
−200
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 98.94
Std Dev 0
1
0.5
0
−0.5
−1

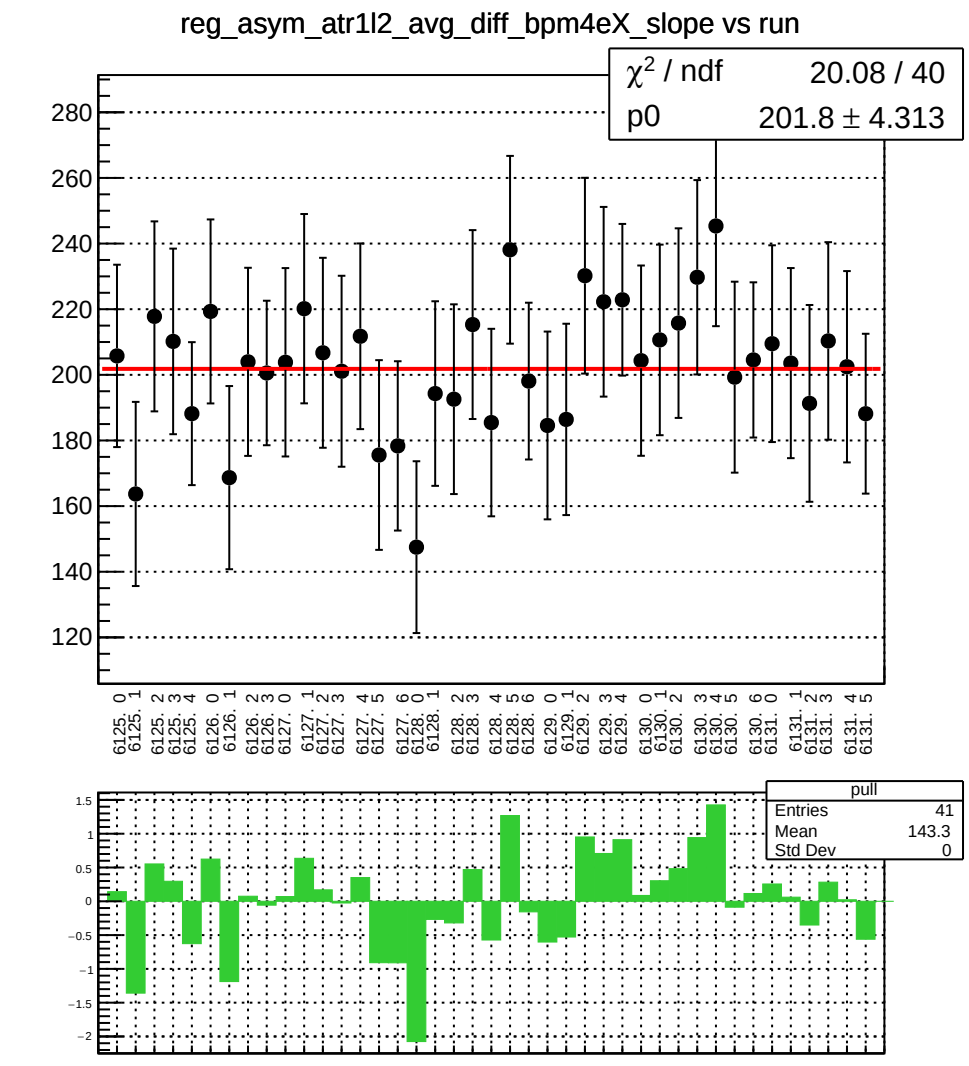

pull1D
Entries 41
Mean 0.007132
Std Dev 0.4533
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

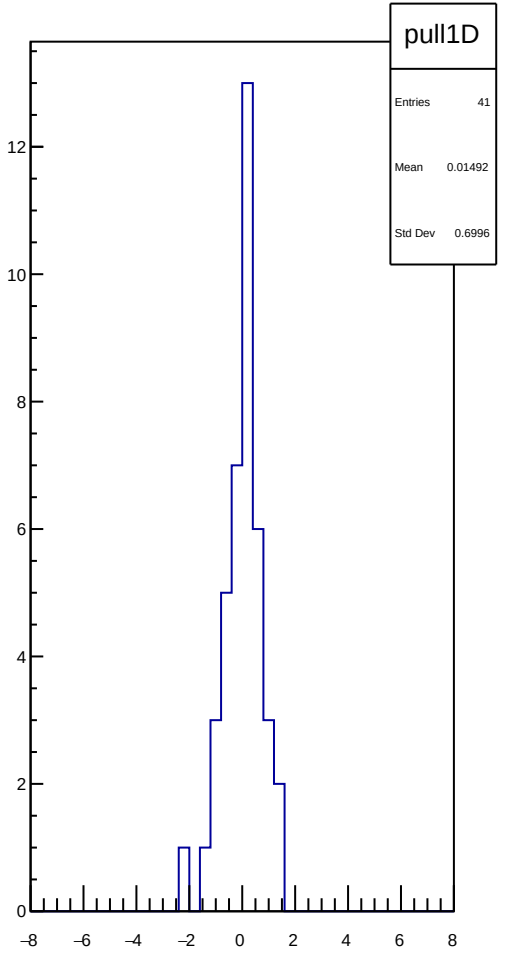

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 7.75 / 40
p0 117.7 ± 0.4556
124
122
120
118
116
114
112
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 522.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 41
Mean 0.001185
Std Dev 0.4348
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

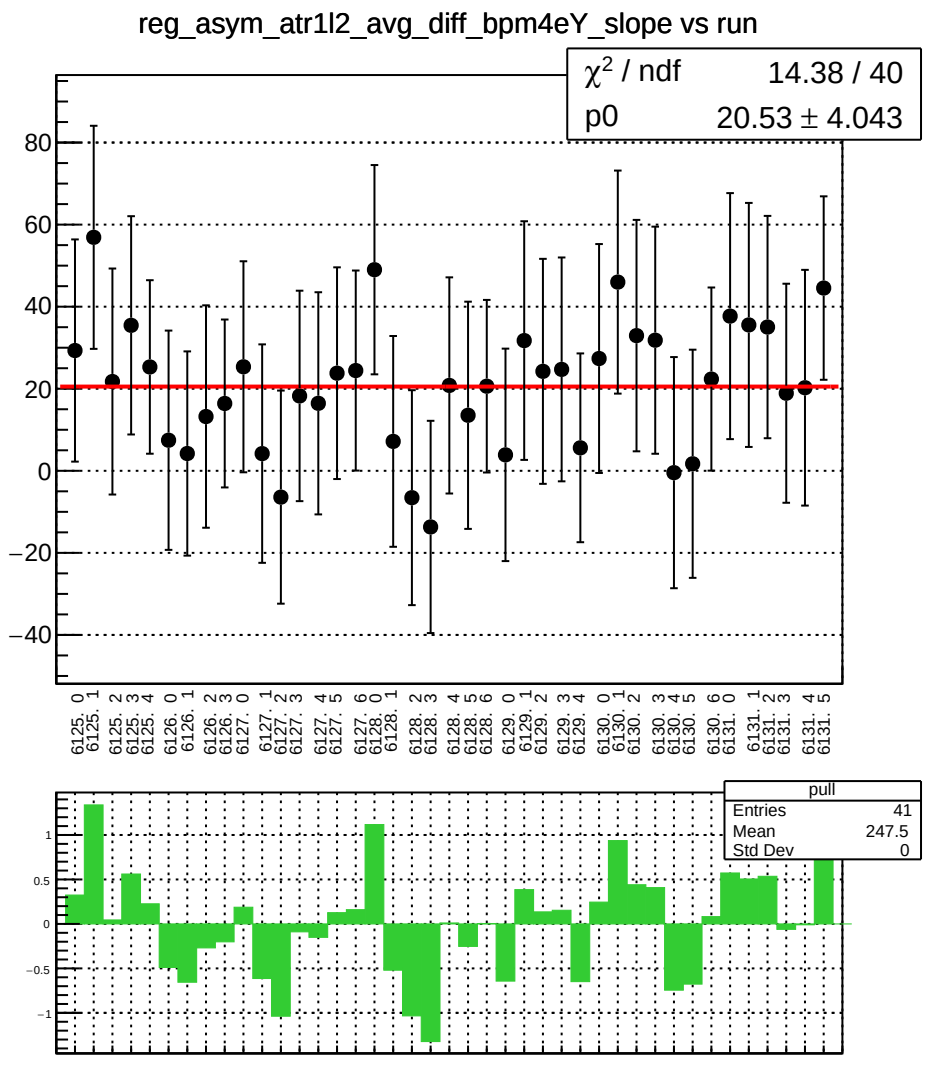

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 20.16 / 40
p0 −193.3 ± 3.539
pull
Entries 41
Mean 144
Std Dev 0

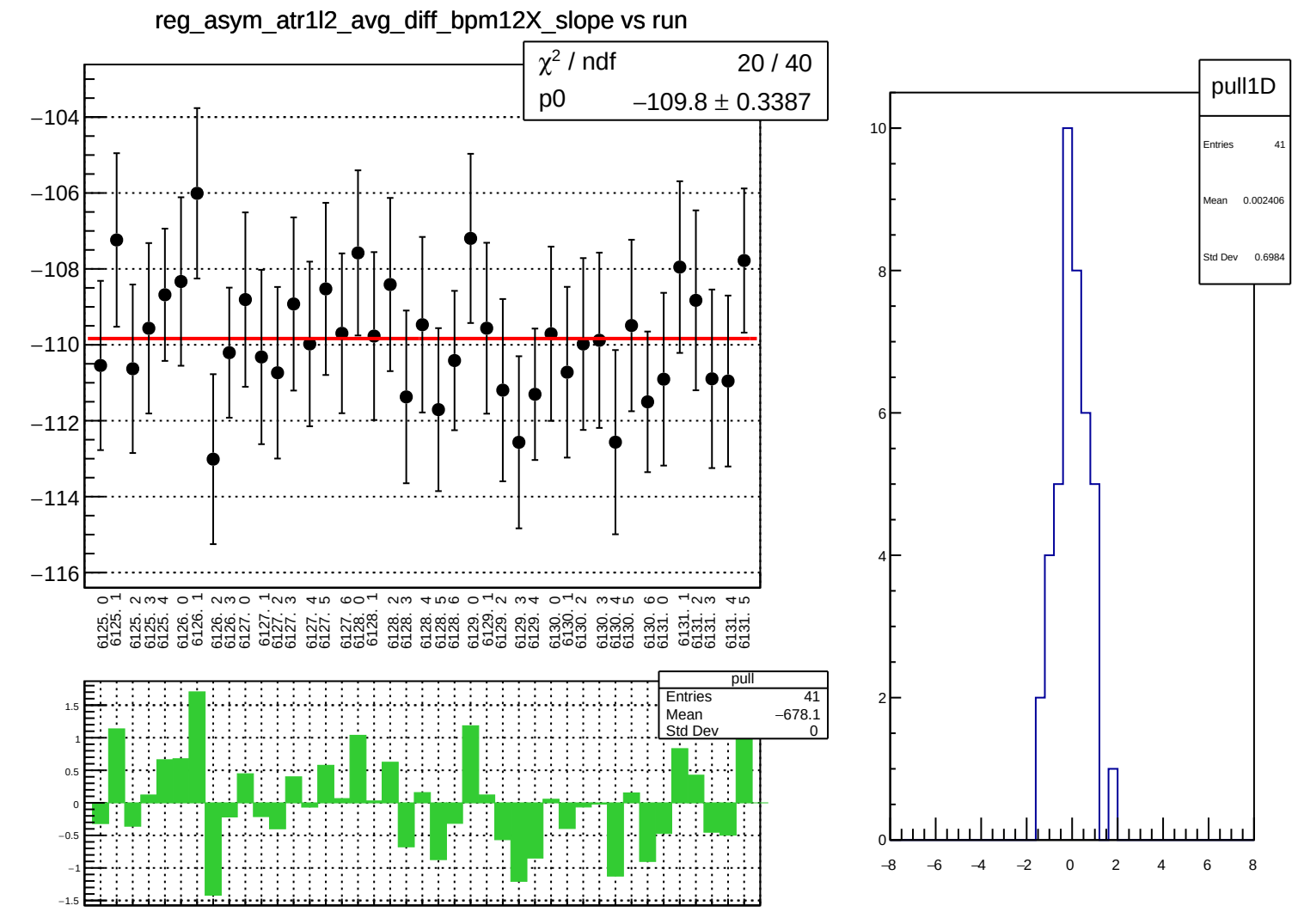

pull1D
Entries 41
Mean −0.01388
Std Dev 0.7011

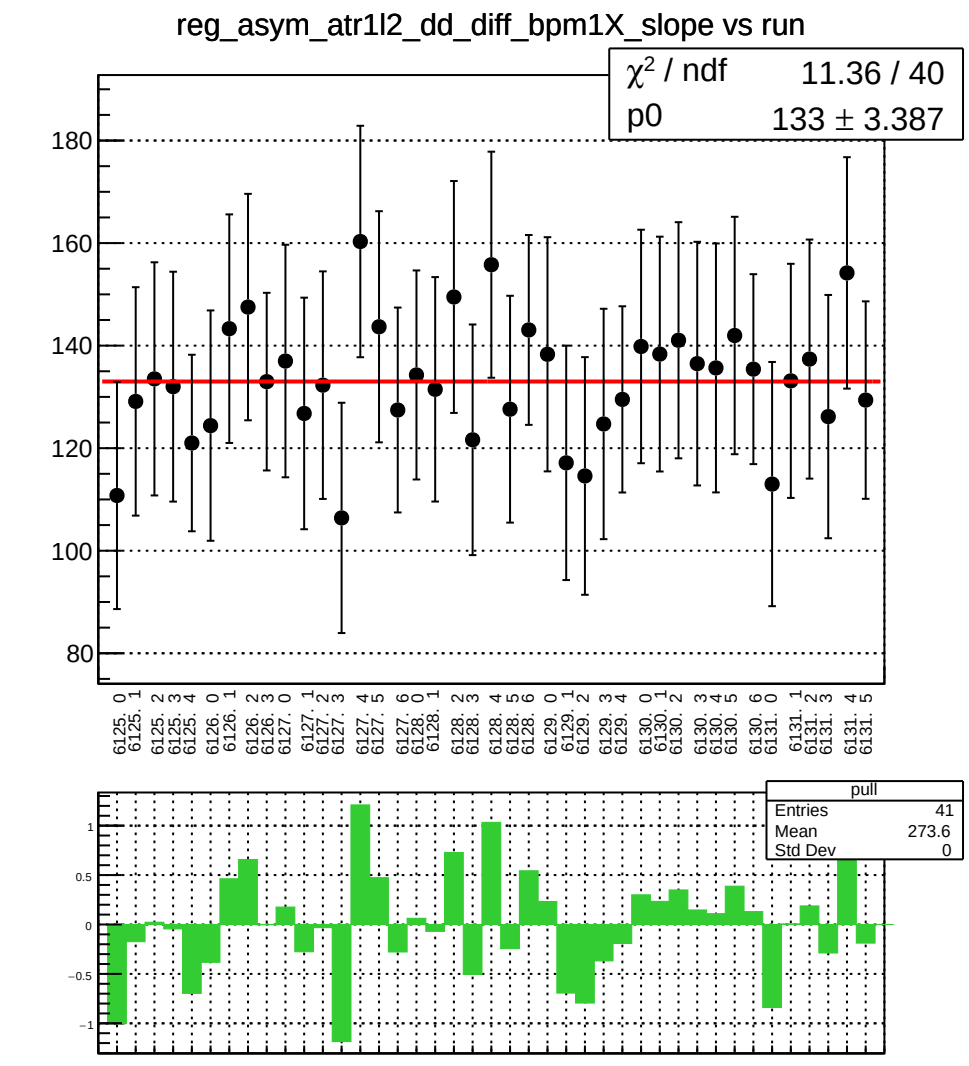

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.01 / 40
p0 22.56 ± 3.821
pull
Entries 41
Mean 127.6
Std Dev 0
pull1D
Entries 41
Mean −0.006011
Std Dev 0.5634

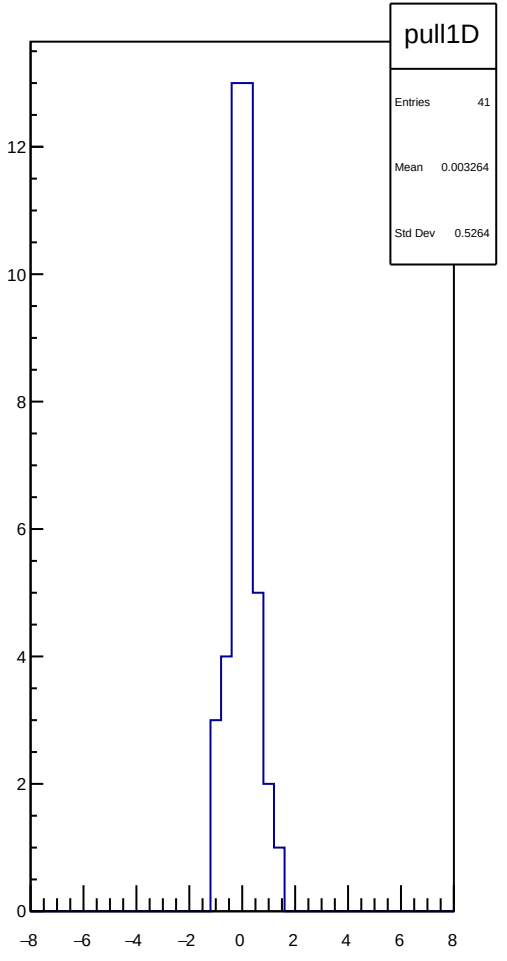

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.08 / 40
p0 201.8 ± 4.313
pull
Entries 41
Mean 143.3
Std Dev 0

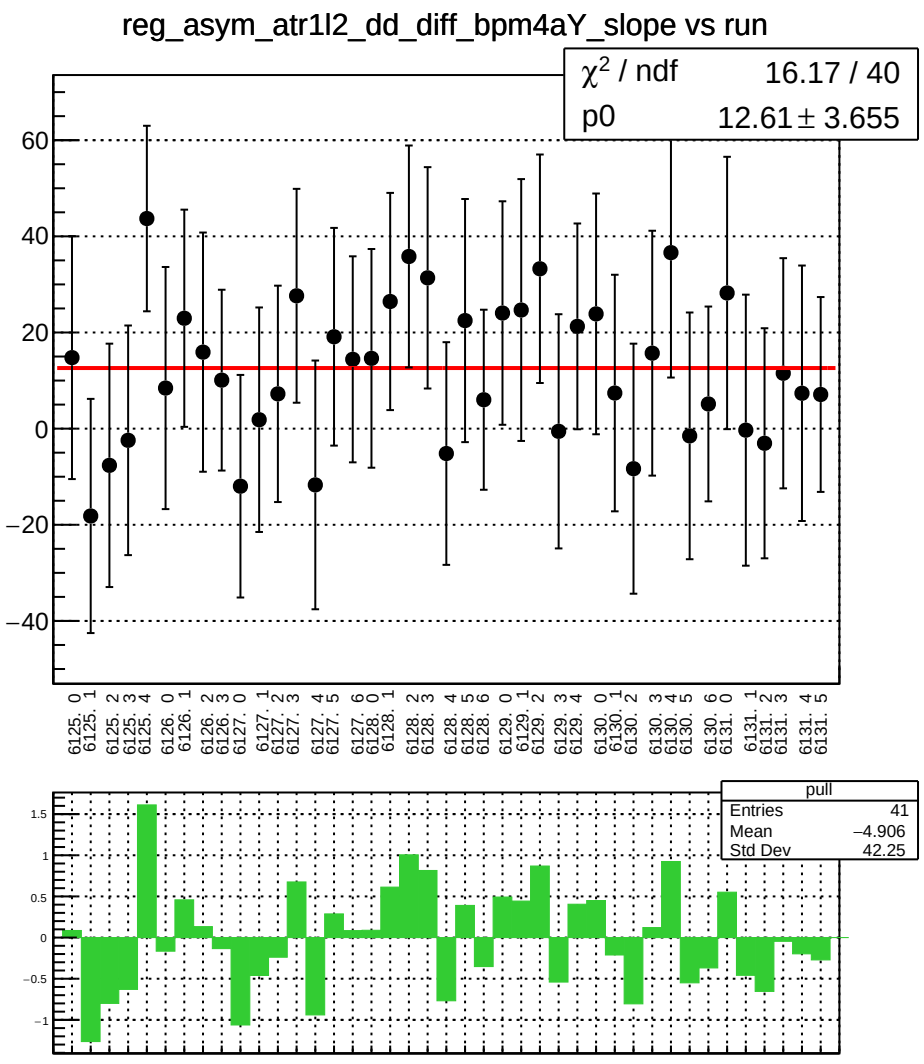

pull1D
Entries 41
Mean 0.01492
Std Dev 0.6996

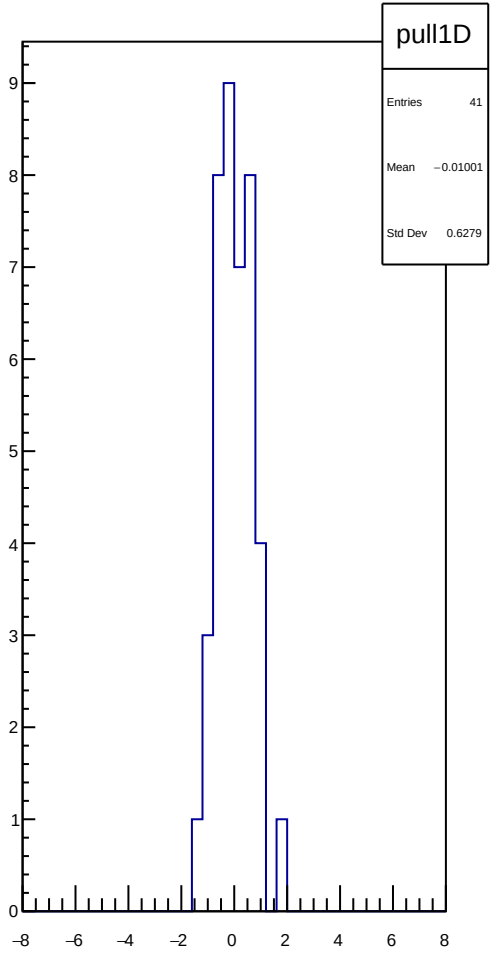

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.38 / 40
p0 20.53 ± 4.043
80
60
40
20
0
−20
−40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 247.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.003843
Std Dev 0.5921
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

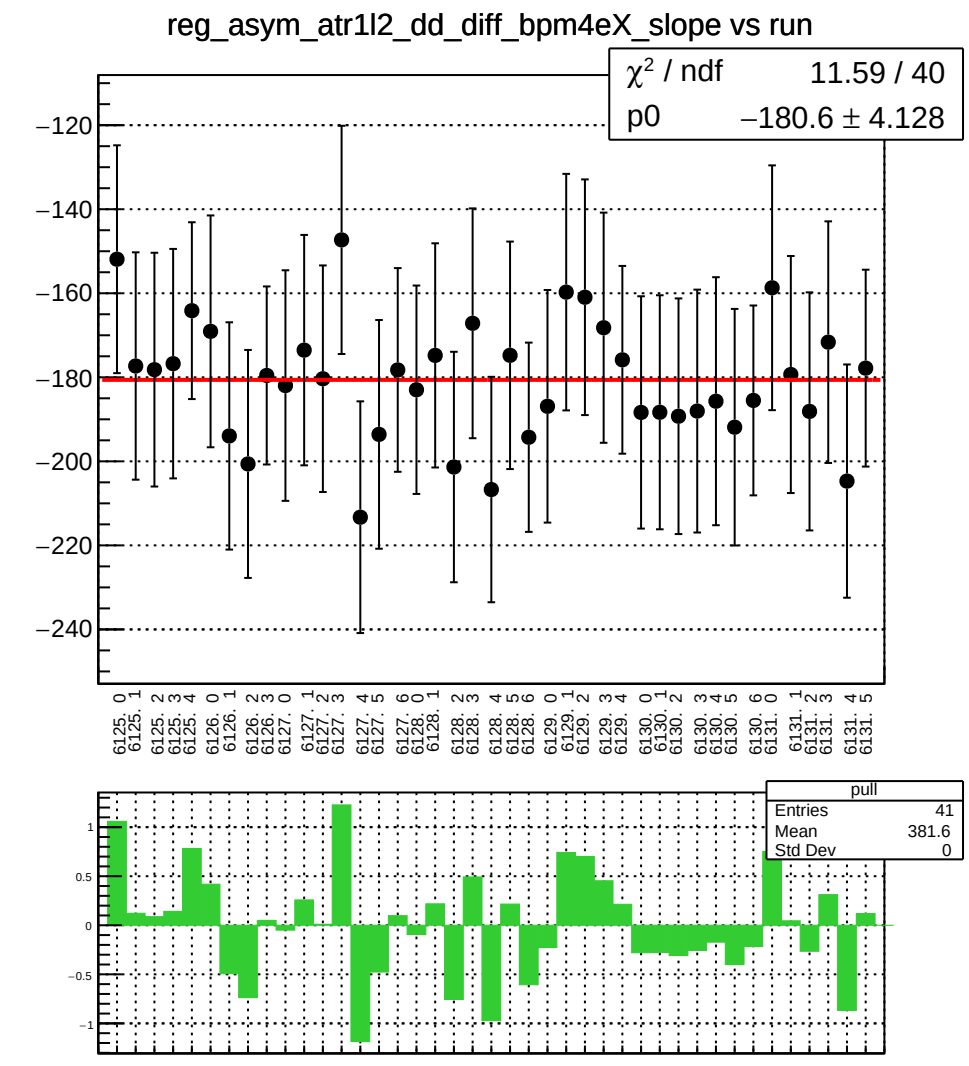

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 20 / 40
p0 −109.8 ± 0.3387
−104
−106
−108
−110
−112
−114
−116
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −678.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.002406
Std Dev 0.6984
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

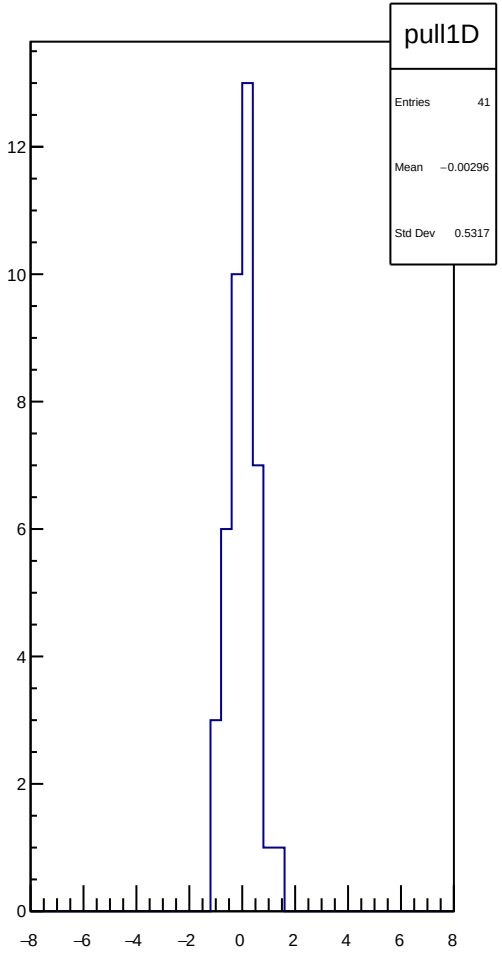

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 11.36 / 40
p0 133 ± 3.387
180
160
140
120
100
80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 273.6
Std Dev 0
1
0.5
0
−0.5
−1

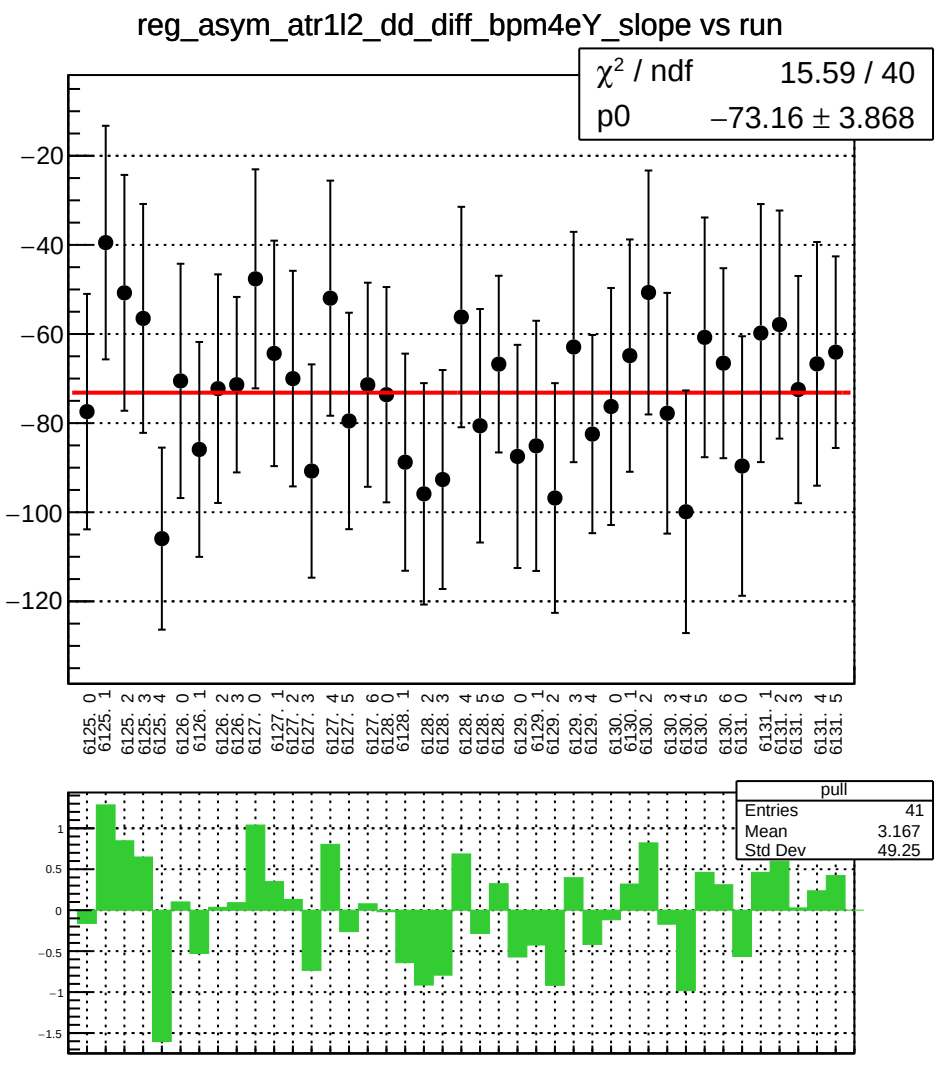

pull1D
Entries 41
Mean 0.003264
Std Dev 0.5264
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

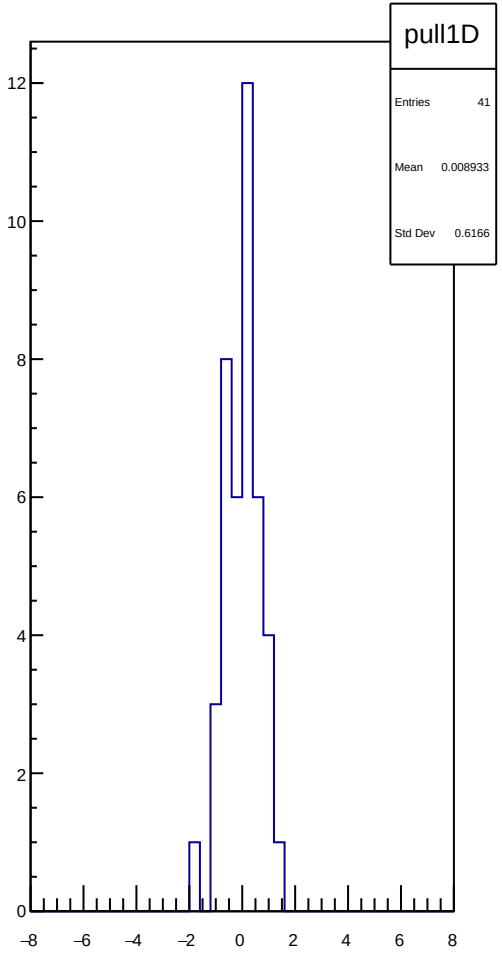

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.17 / 40
p0 12.61 ± 3.655
pull
Entries 41
Mean −4.906
Std Dev 42.25

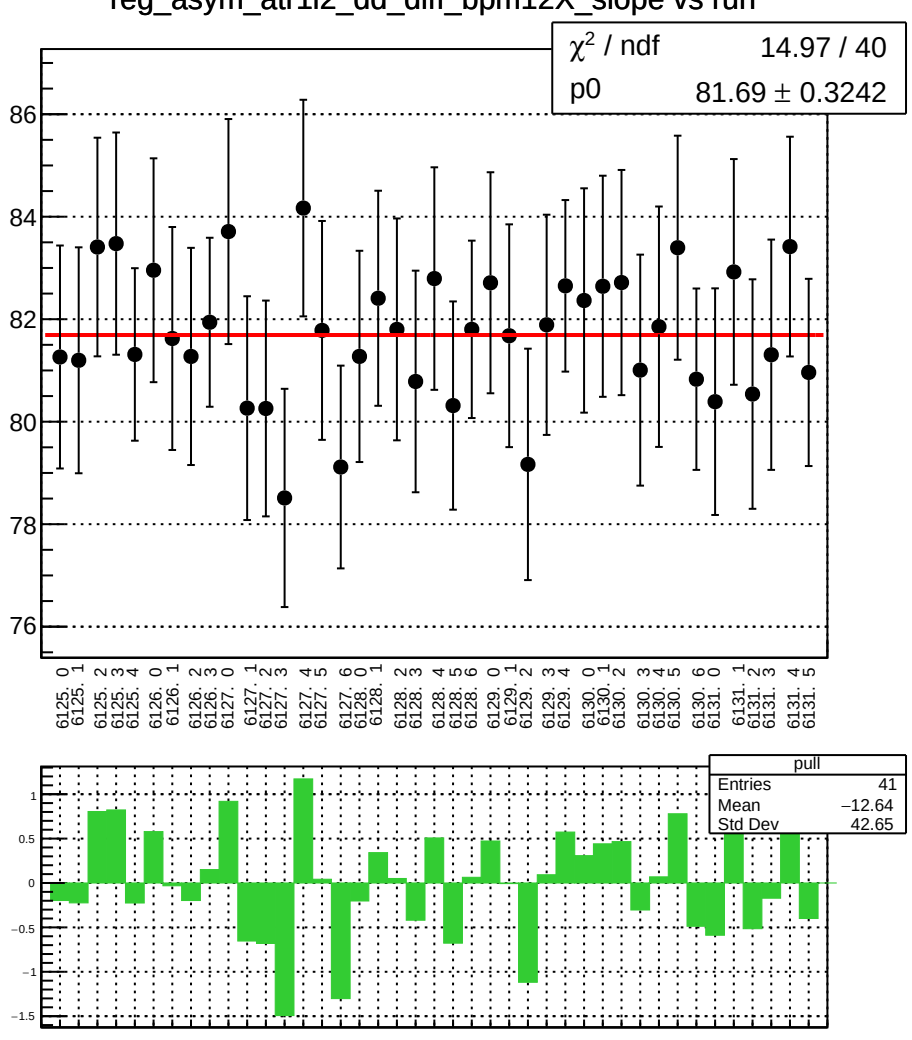

pull1D
Entries 41
Mean −0.01001
Std Dev 0.6279

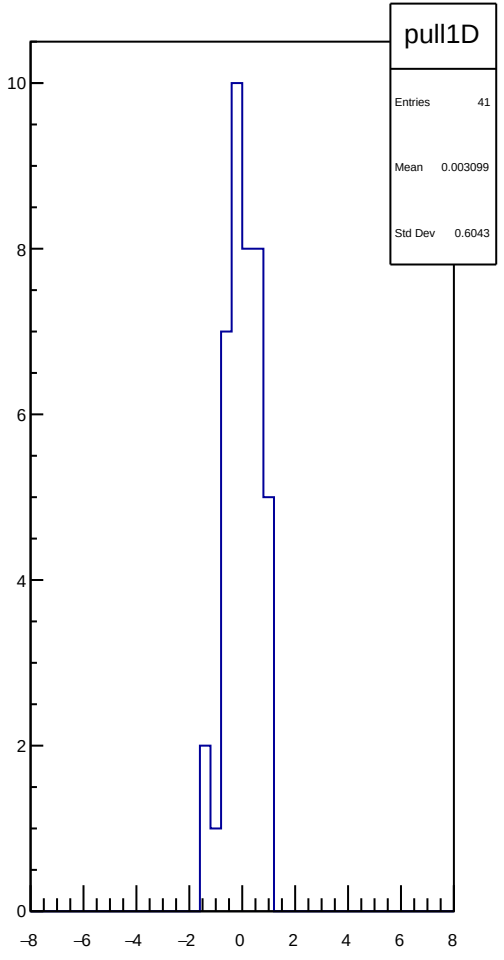

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.59 / 40
p0 −180.6 ± 4.128
−120
−140
−160
−180
−200
−220
−240
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 381.6
Std Dev 0
1
0.5
0
−0.5
−1

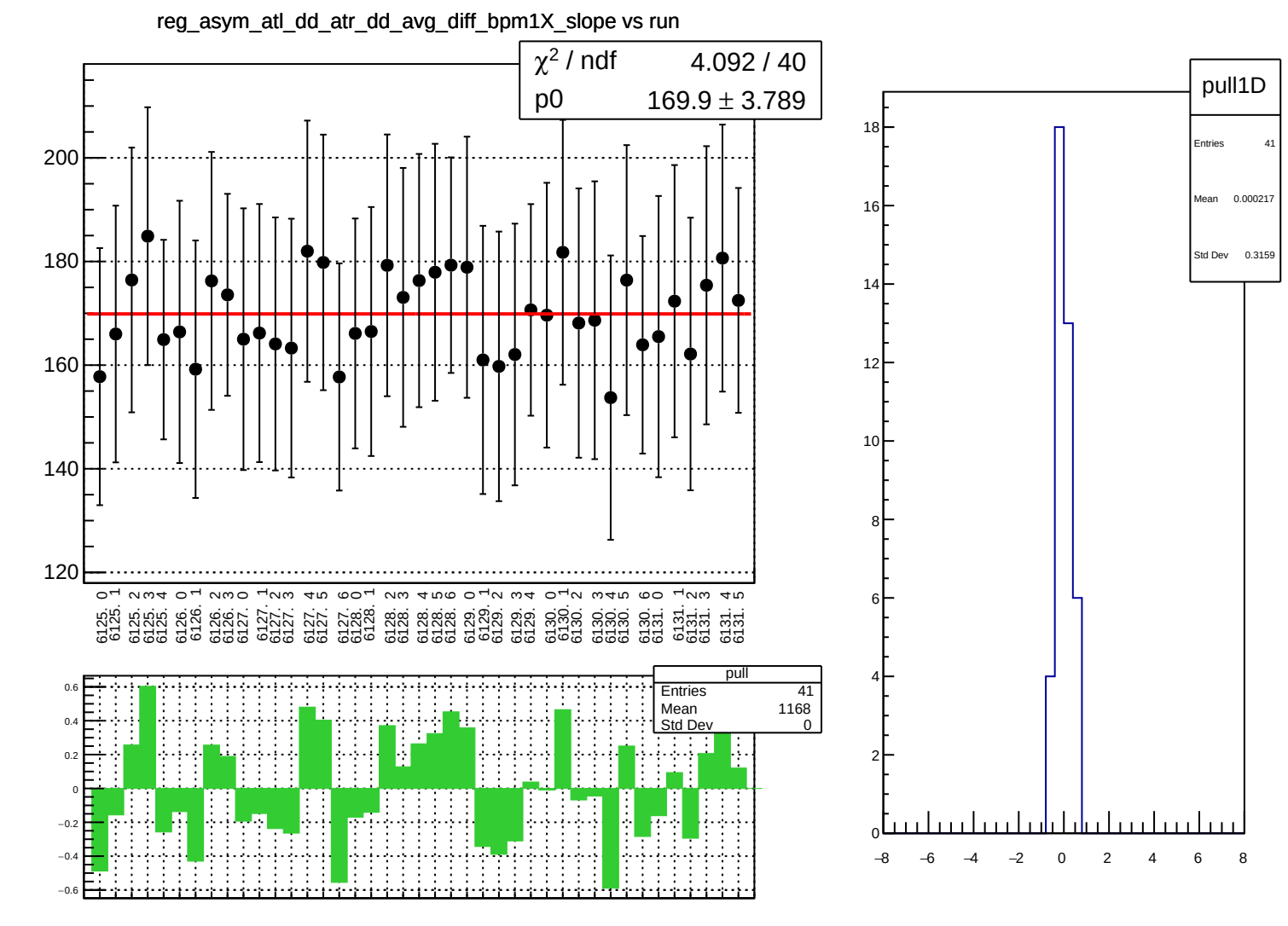

pull1D
Entries 41
Mean −0.00296
Std Dev 0.5317
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

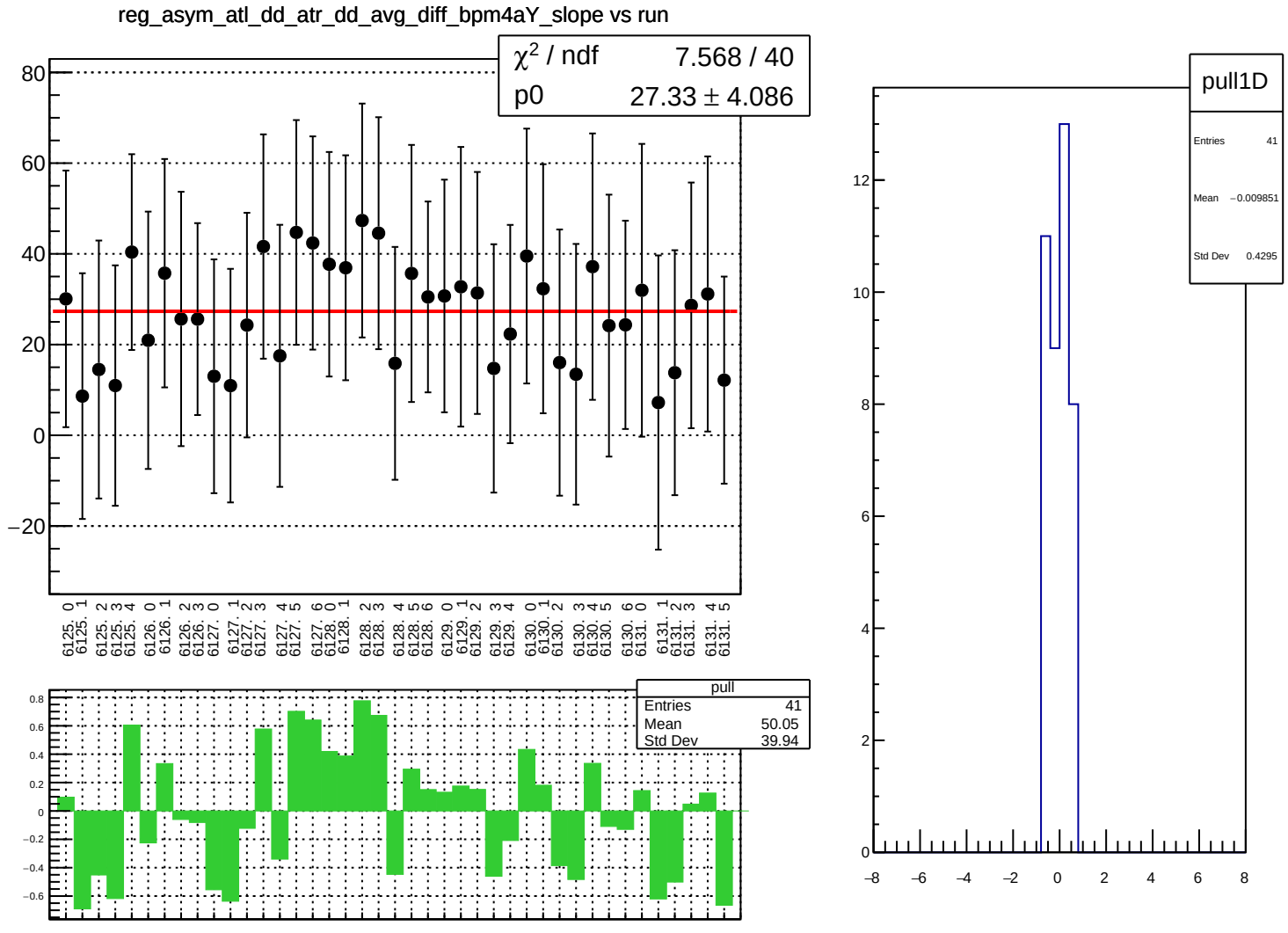

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.59 / 40
p0 −73.16 ± 3.868
−20
−40
−60
−80
−100
−120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 3.167
Std Dev 49.25
1
0.5
0
−0.5
−1
−1.5

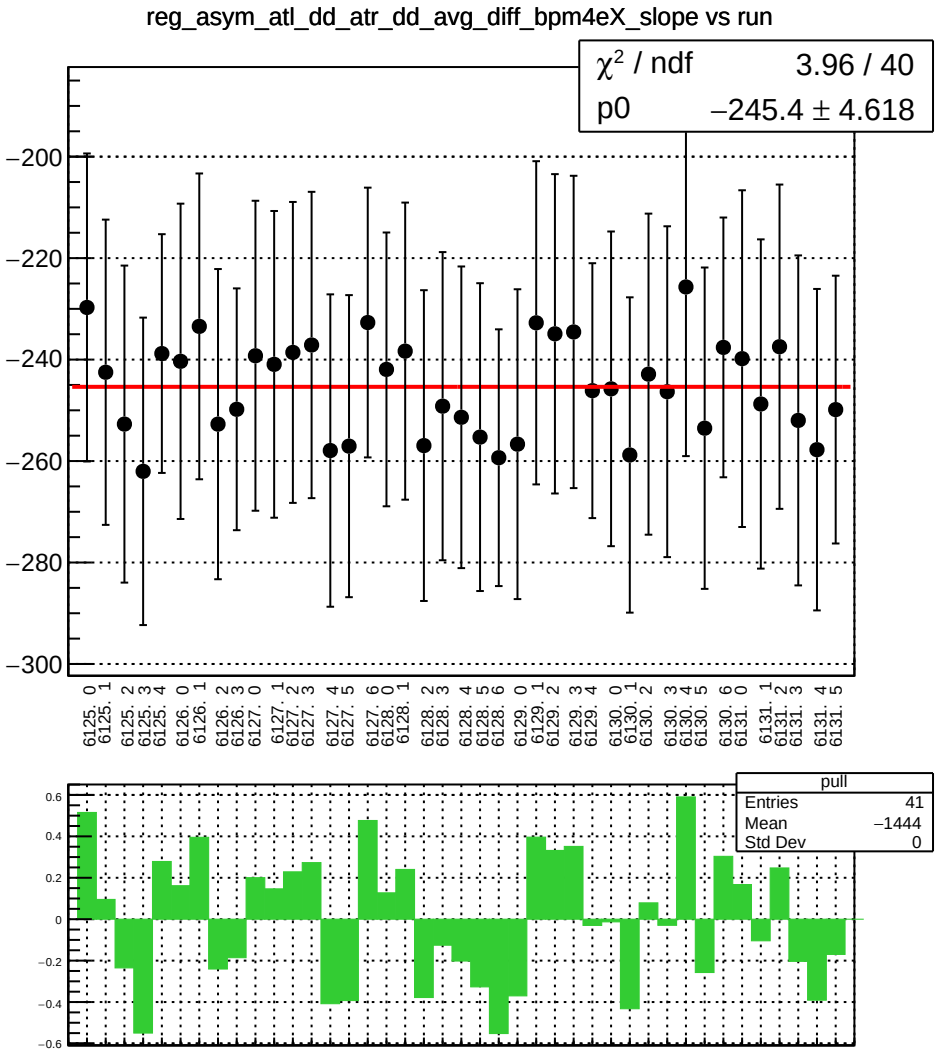

pull1D
Entries 41
Mean 0.008933
Std Dev 0.6166
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

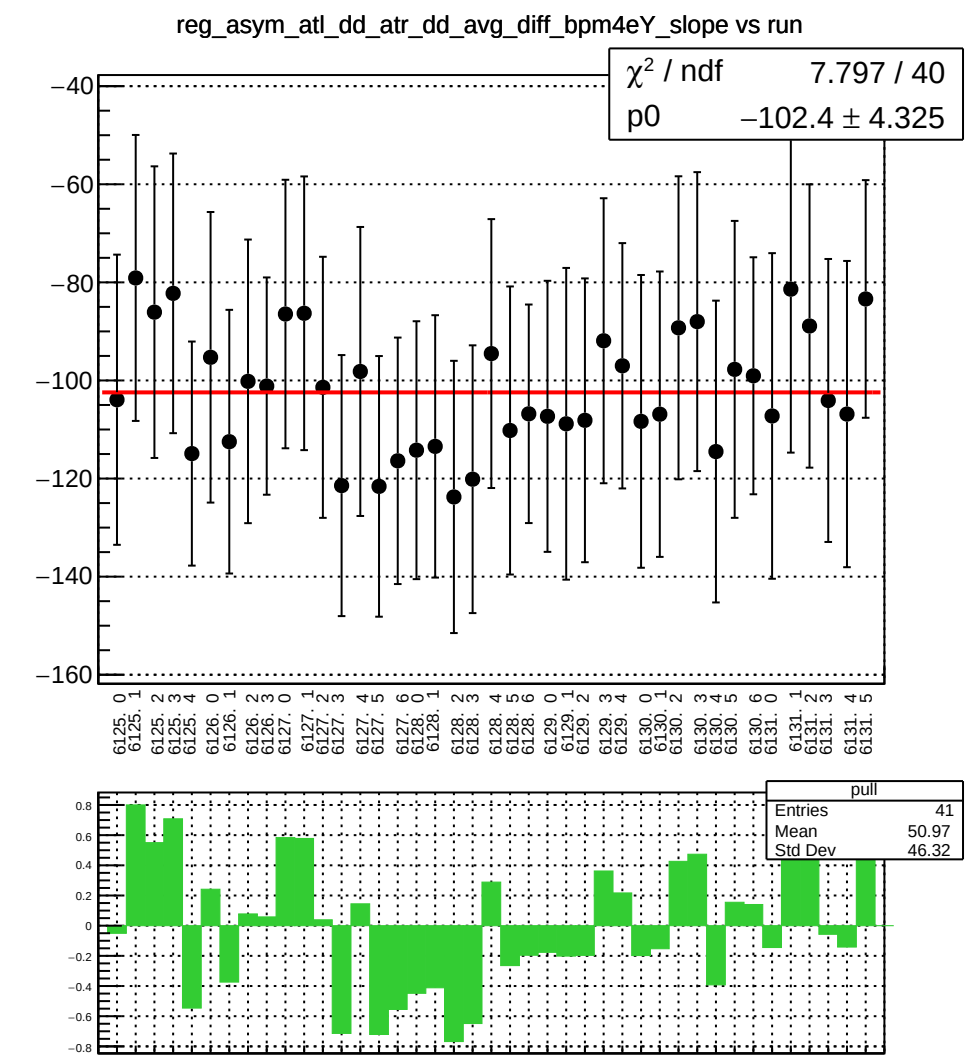

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 14.97 / 40
p0 81.69 ± 0.3242
pull
Entries 41
Mean −12.64
Std Dev 42.65

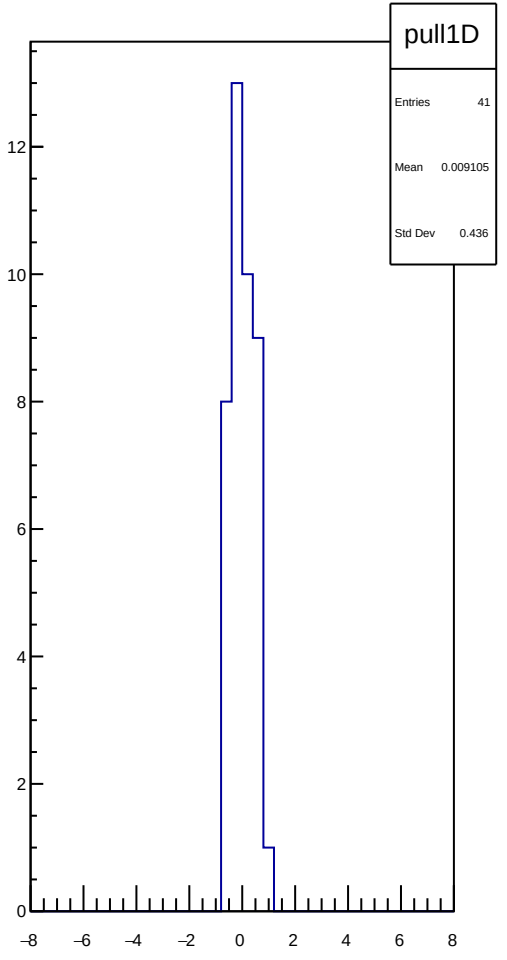

pull1D
Entries 41
Mean 0.003099
Std Dev 0.6043

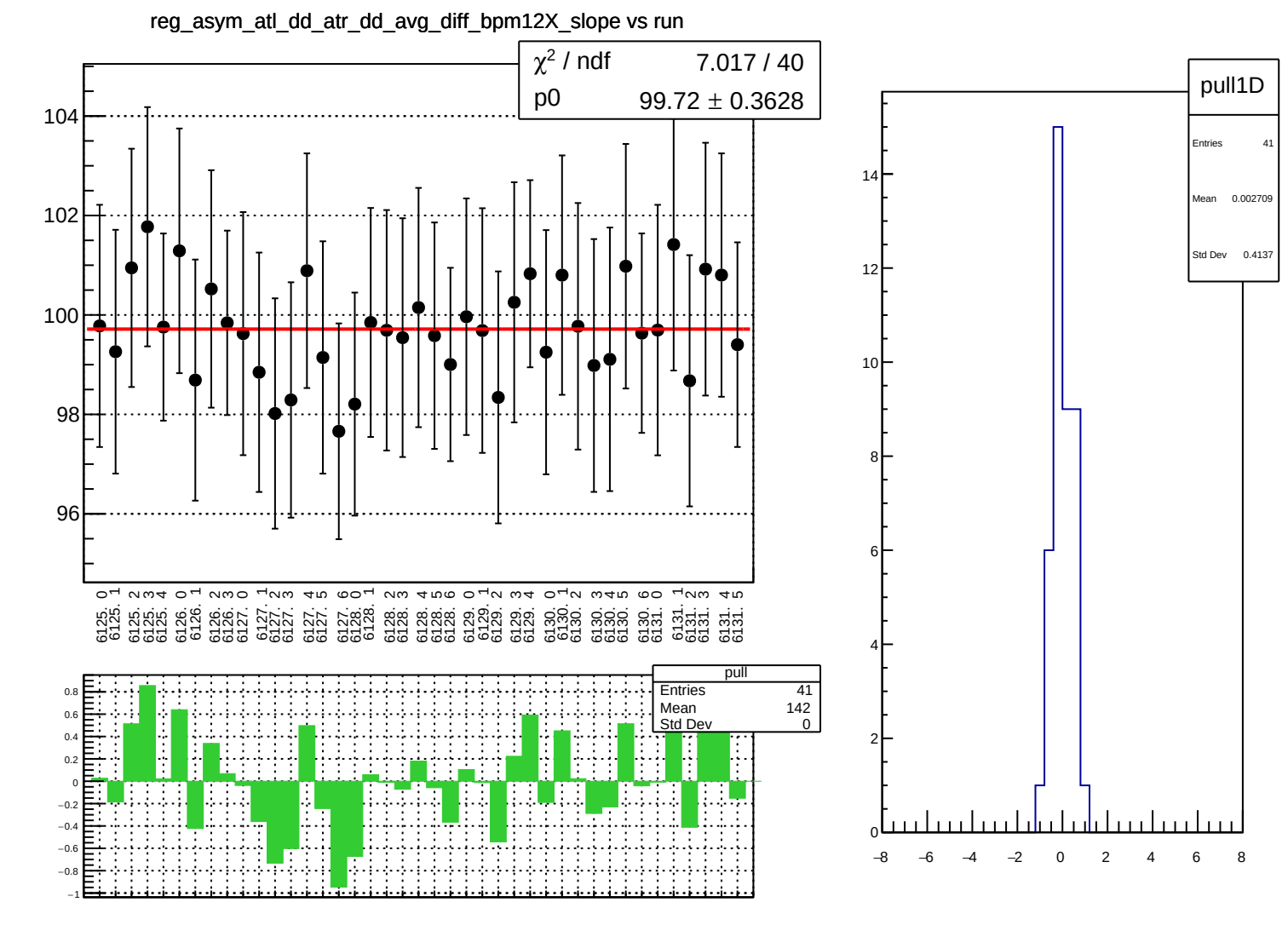

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 4.092 / 40
p0 169.9 ± 3.789
200
180
160
140
120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1168
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean 0.000217
Std Dev 0.3159
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

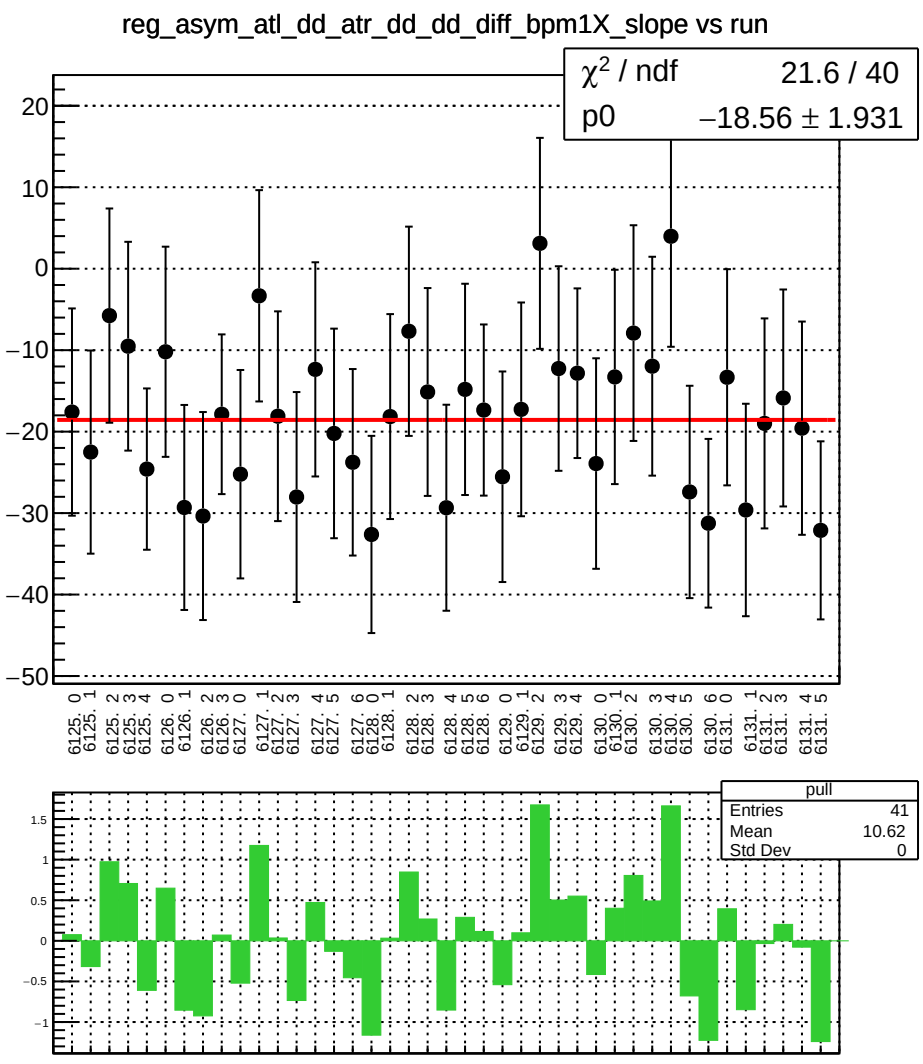

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.568 / 40
p0 27.33 ± 4.086
80
60
40
20
0
−20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6126. 4
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 50.05
Std Dev 39.94
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean −0.009851
Std Dev 0.4295
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

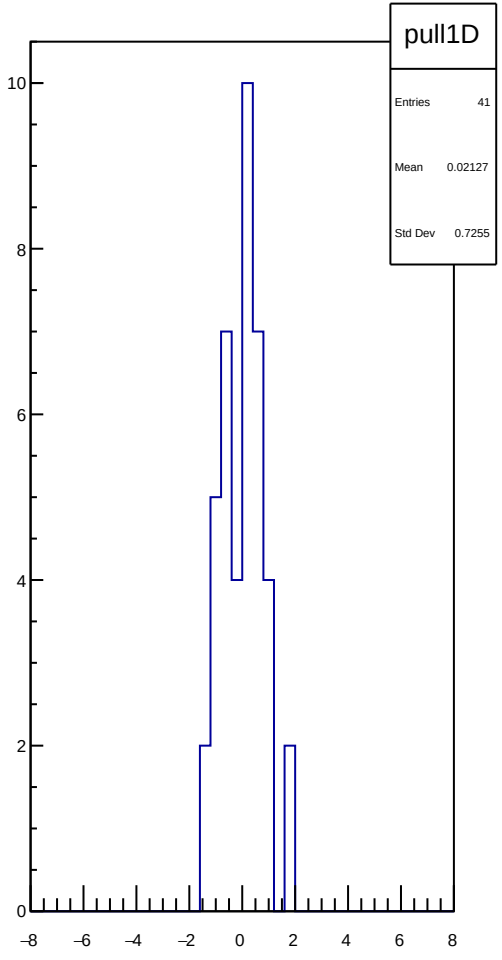

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.96 / 40
p0 −245.4 ± 4.618
−200
−220
−240
−260
−280
−300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1444
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean 0.0002235
Std Dev 0.3108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

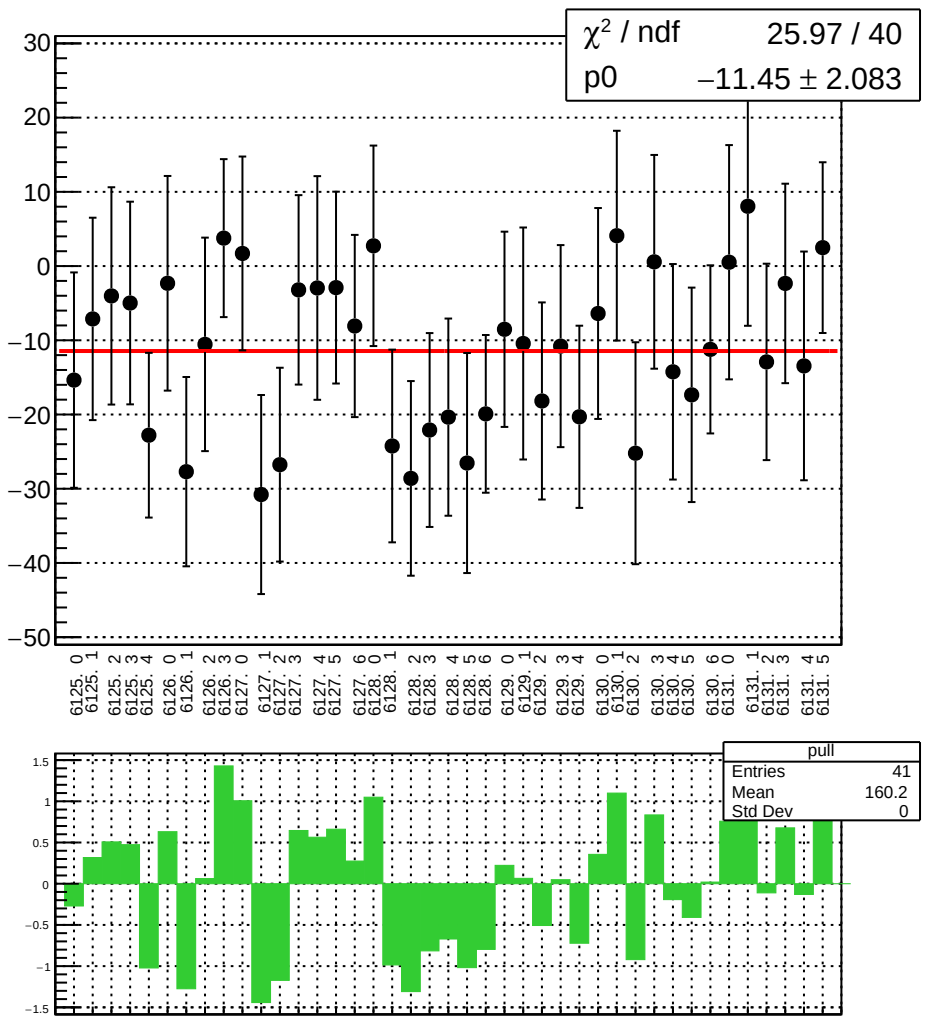

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.797 / 40
p0 −102.4 ± 4.325
−40
−60
−80
−100
−120
−140
−160
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 50.97
Std Dev 46.32
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

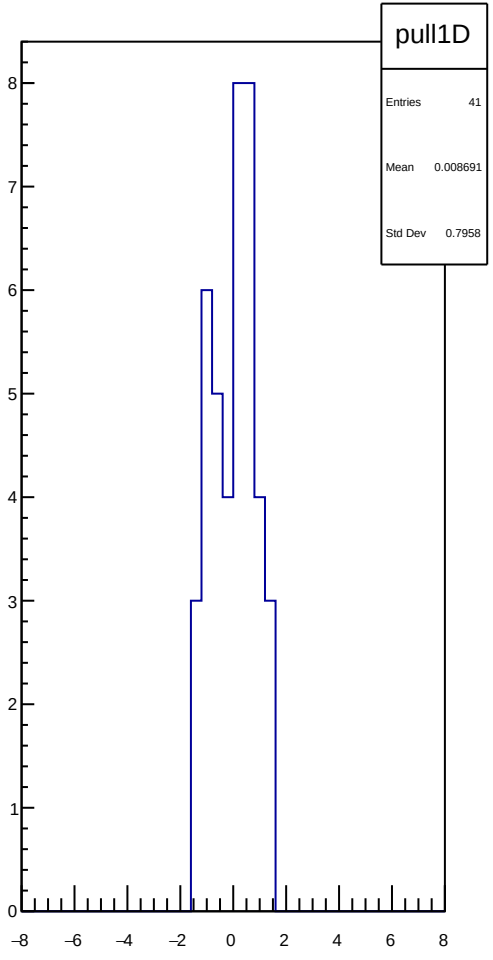

pull1D
Entries 41
Mean 0.009105
Std Dev 0.436
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

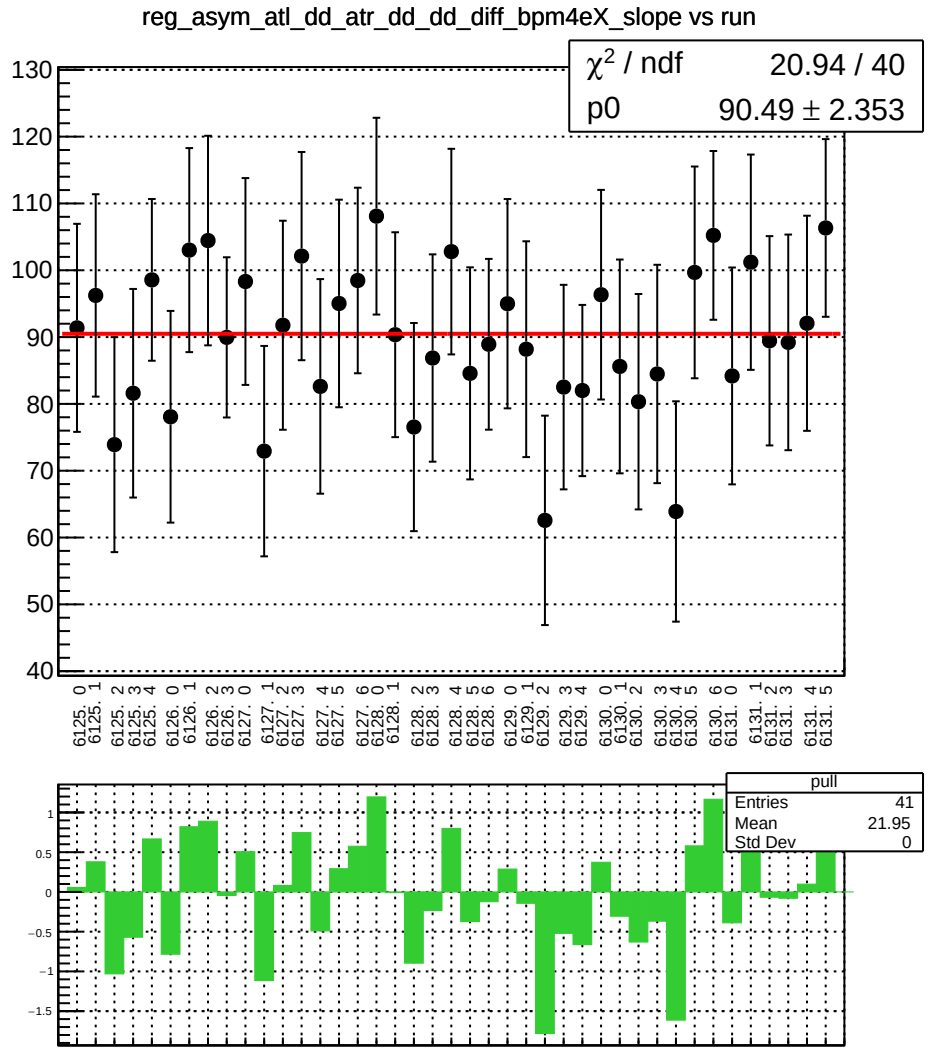

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 7.017 / 40
p0 99.72 ± 0.3628
104
102
100
98
96
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 142
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 41
Mean 0.002709
Std Dev 0.4137
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

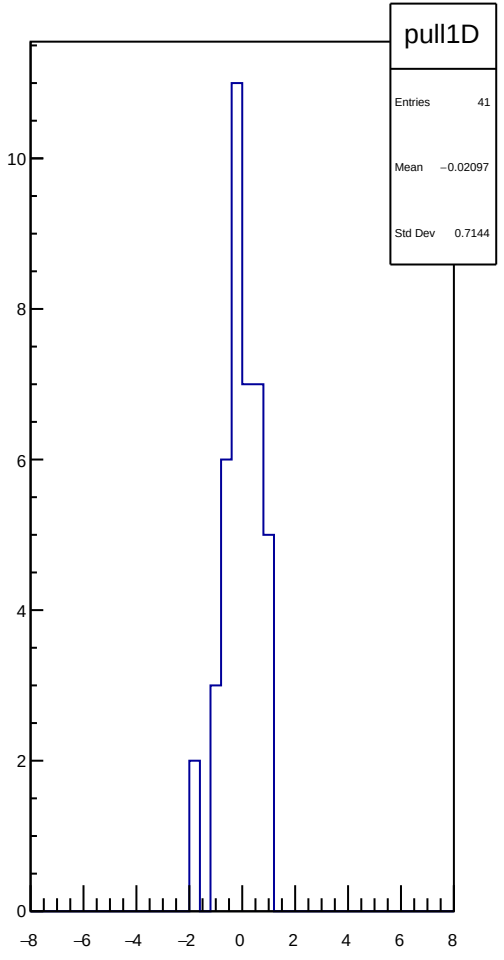

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 21.6 / 40
p0 −18.56 ± 1.931
pull
Entries 41
Mean 10.62
Std Dev 0

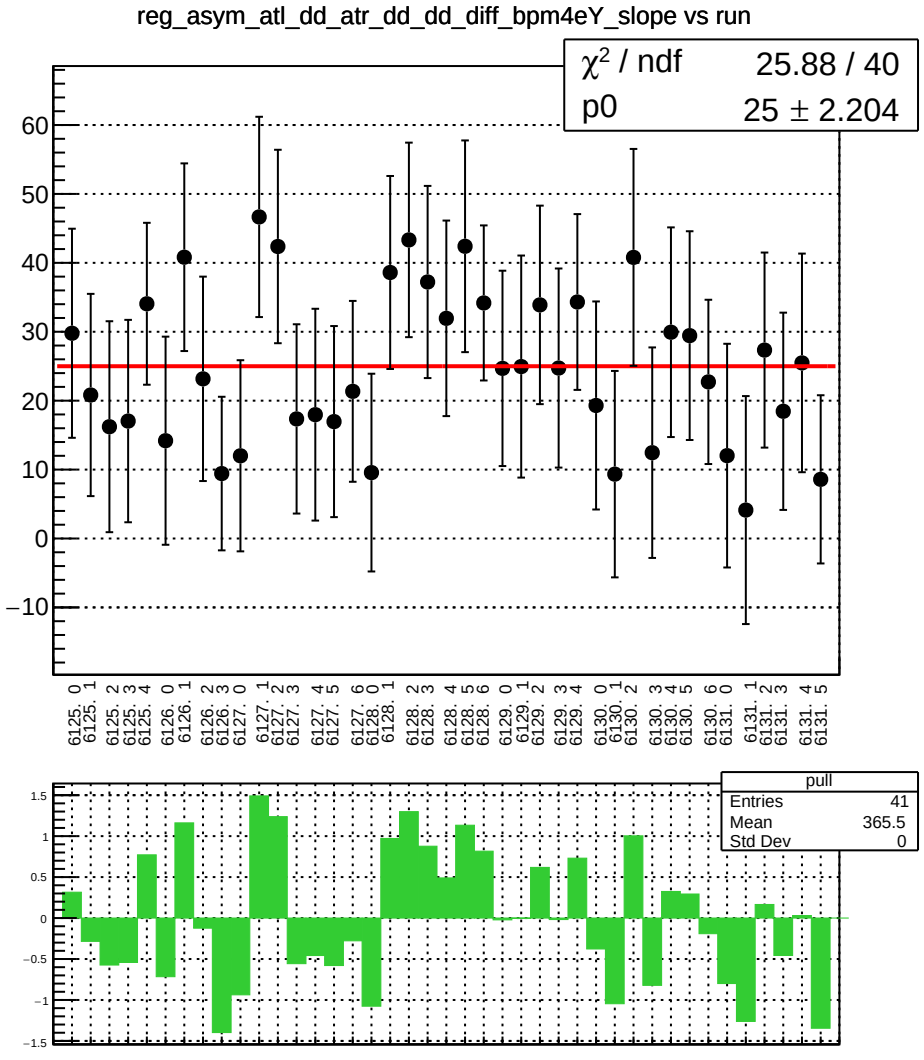

pull1D
Entries 41
Mean 0.02127
Std Dev 0.7255

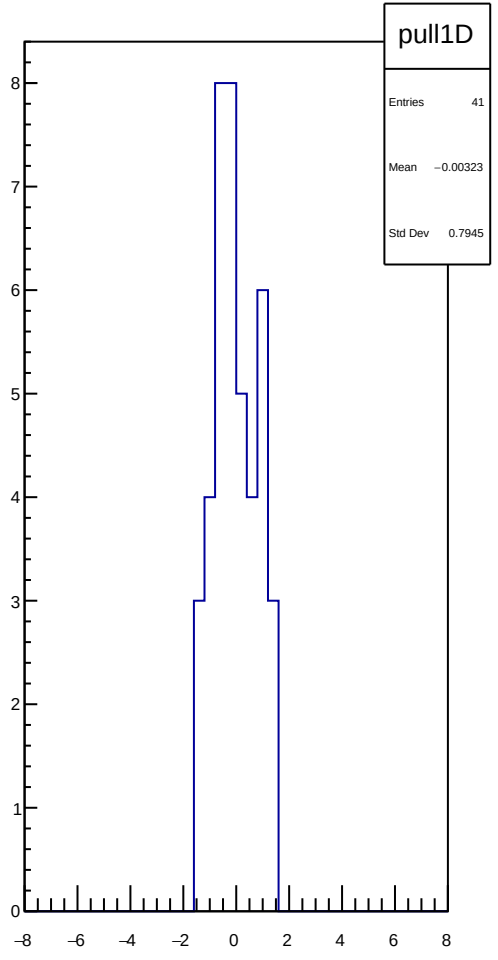

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.97 / 40
p0 −11.45 ± 2.083
pull
Entries 41
Mean 160.2
Std Dev 0

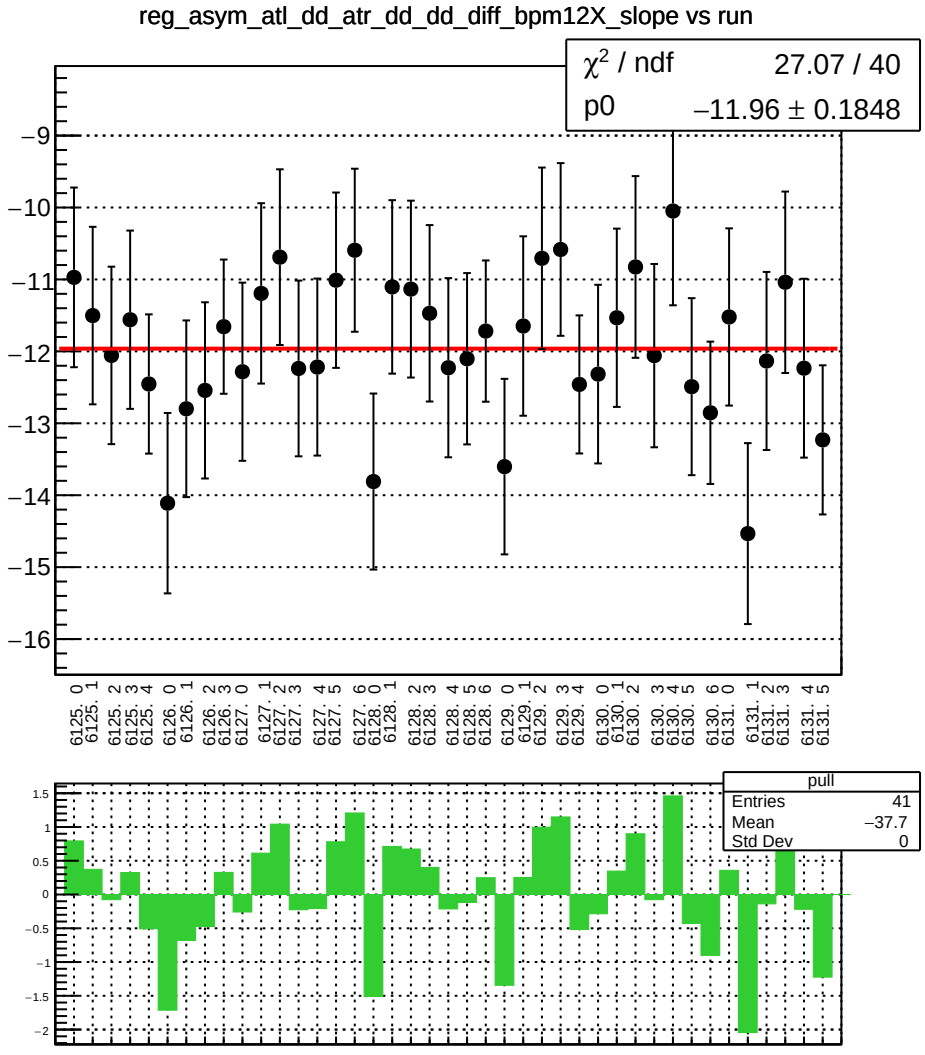

pull1D
Entries 41
Mean 0.008691
Std Dev 0.7958

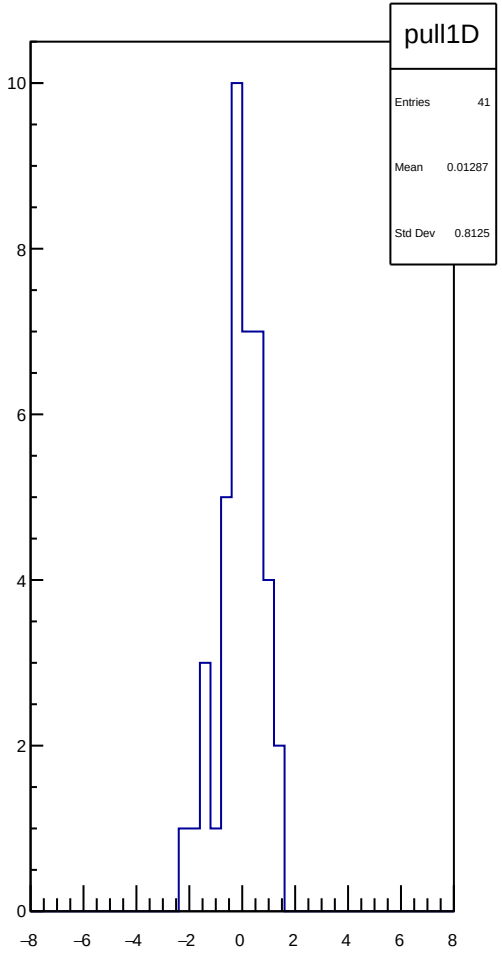

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.94 / 40
p0 90.49 ± 2.353
pull
Entries 41
Mean 21.95
Std Dev 0

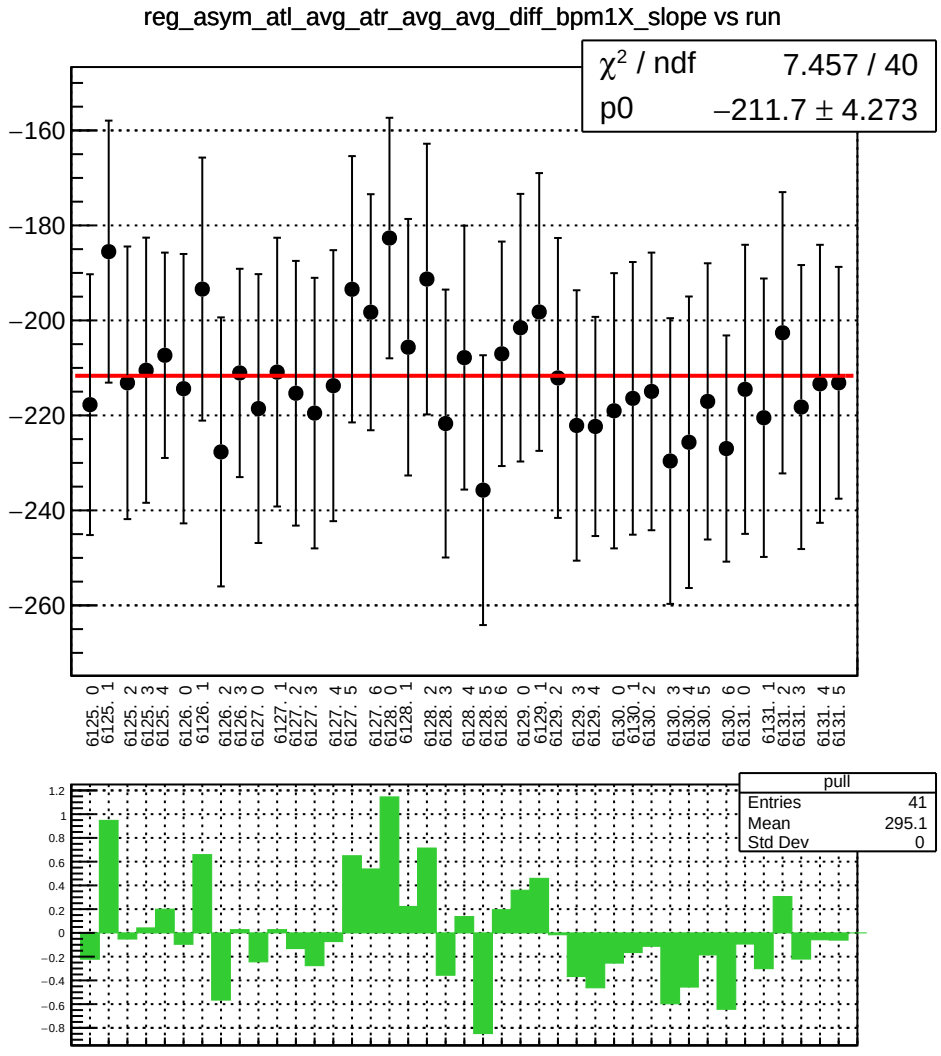

pull1D
Entries 41
Mean −0.02097
Std Dev 0.7144

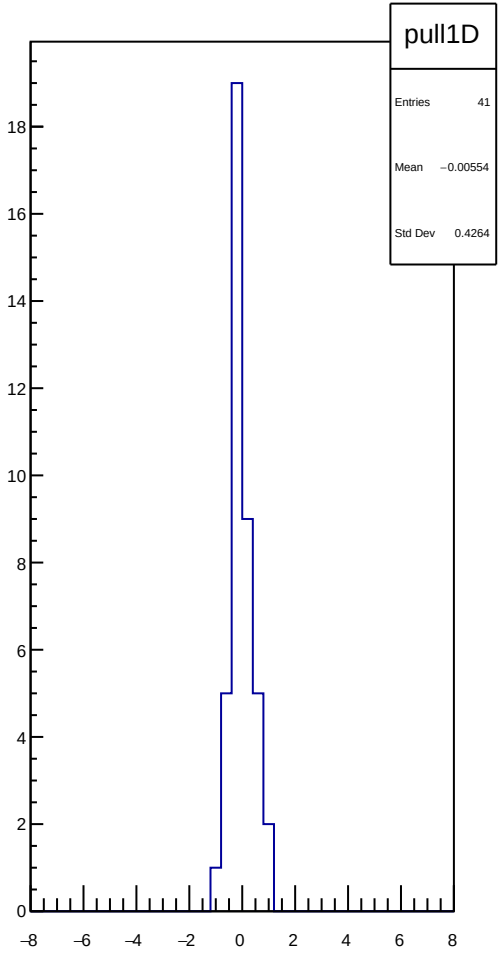

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.88 / 40
p0 25 ± 2.204
pull
Entries 41
Mean 365.5
Std Dev 0

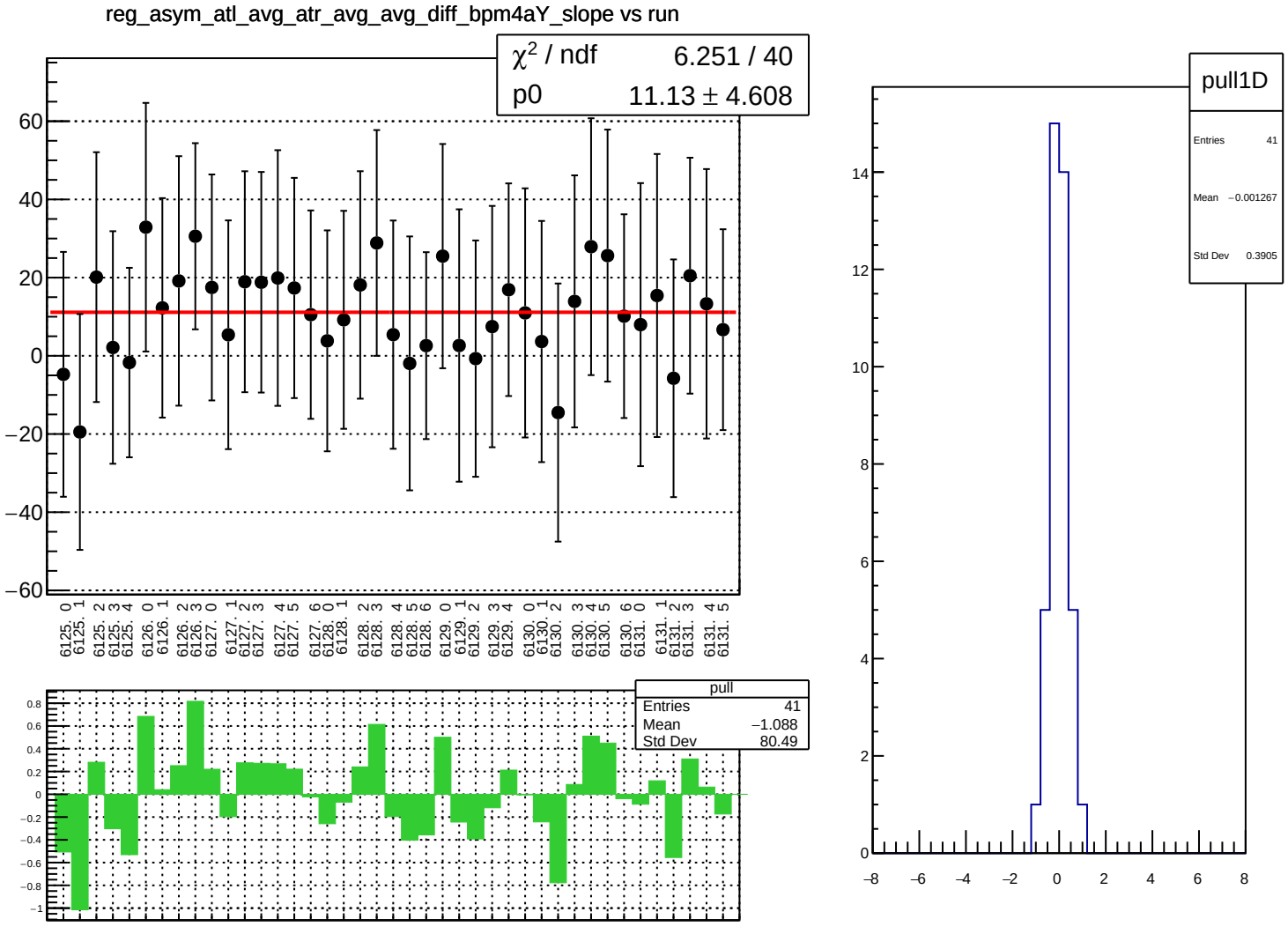

pull1D
Entries 41
Mean −0.00323
Std Dev 0.7945

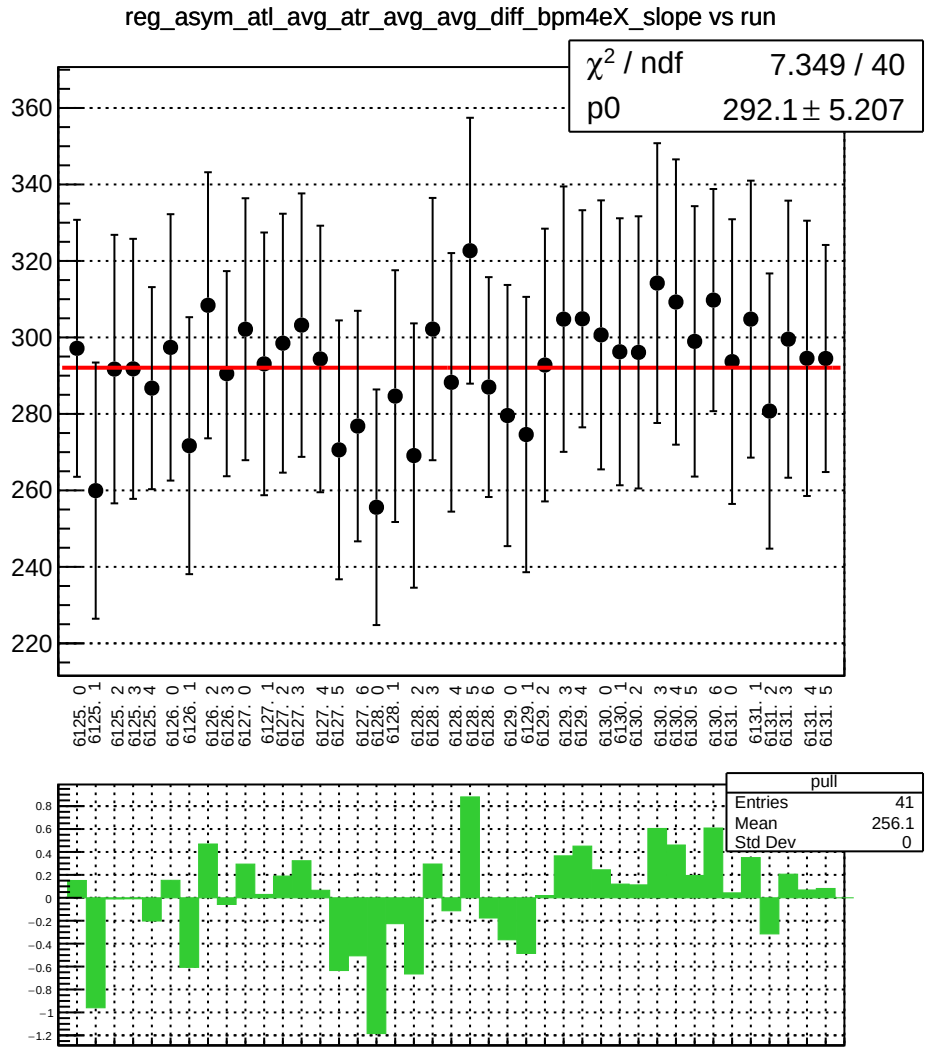

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 27.07 / 40
p0 −11.96 ± 0.1848
pull
Entries 41
Mean −37.7
Std Dev 0

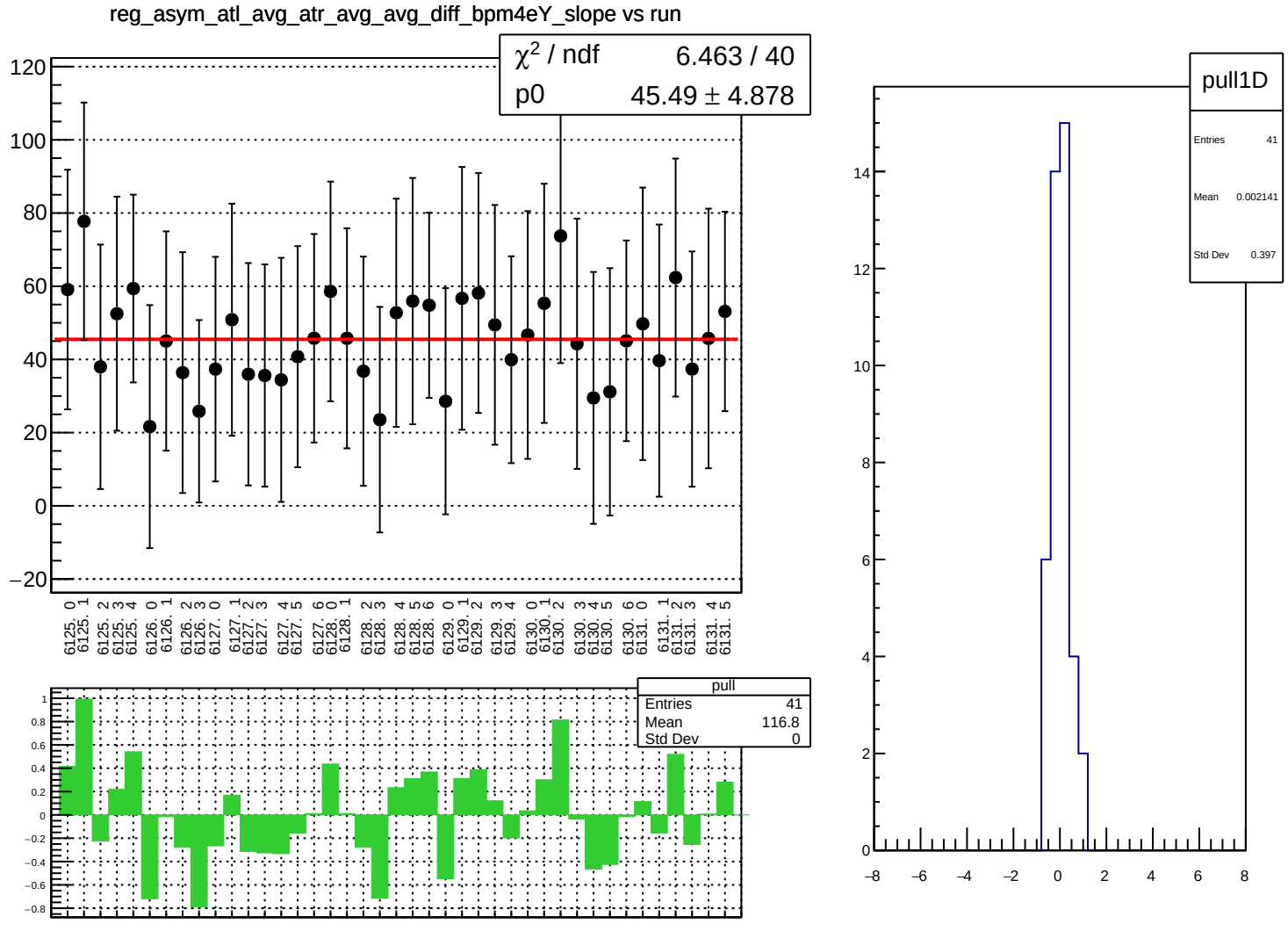

pull1D
Entries 41
Mean 0.01287
Std Dev 0.8125

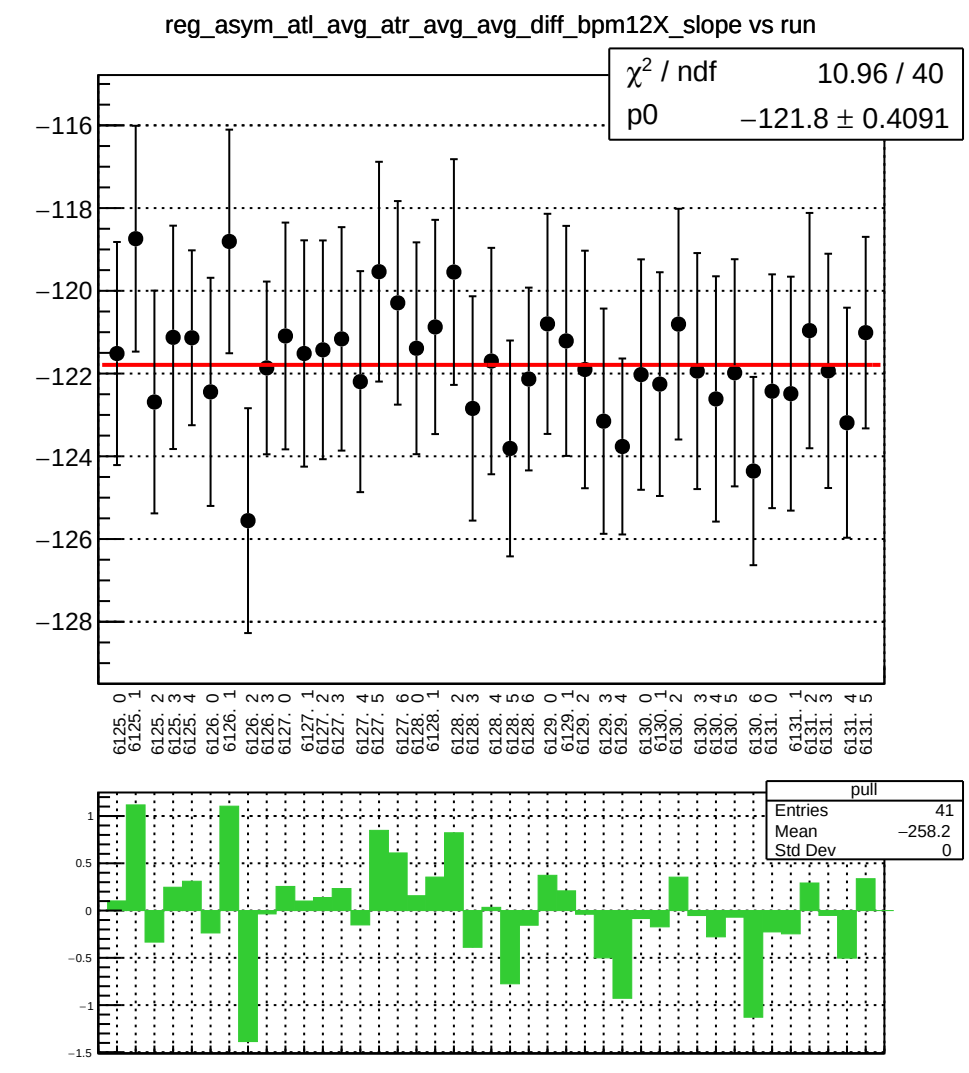

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 7.457 / 40
p0 −211.7 ± 4.273
−160
−180
−200
−220
−240
−260
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 295.1
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

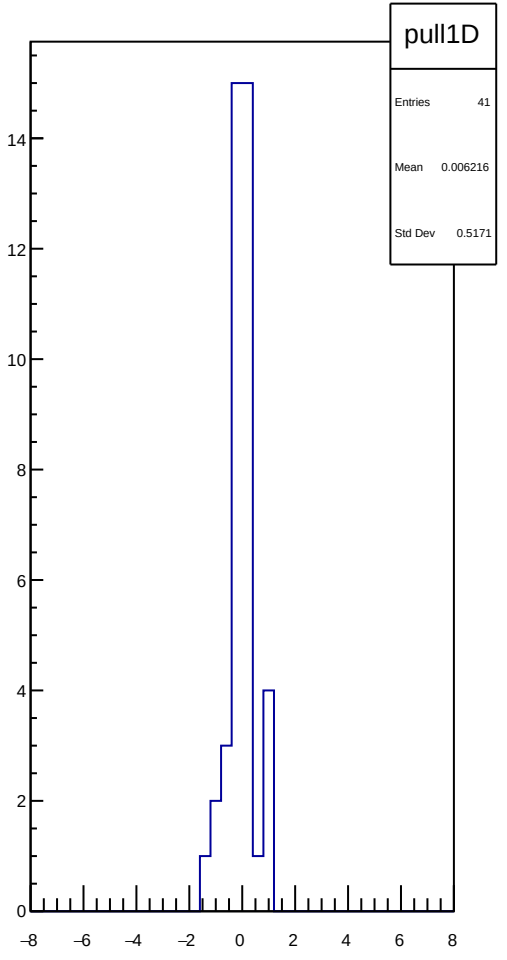

pull1D
Entries 41
Mean −0.00554
Std Dev 0.4264
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

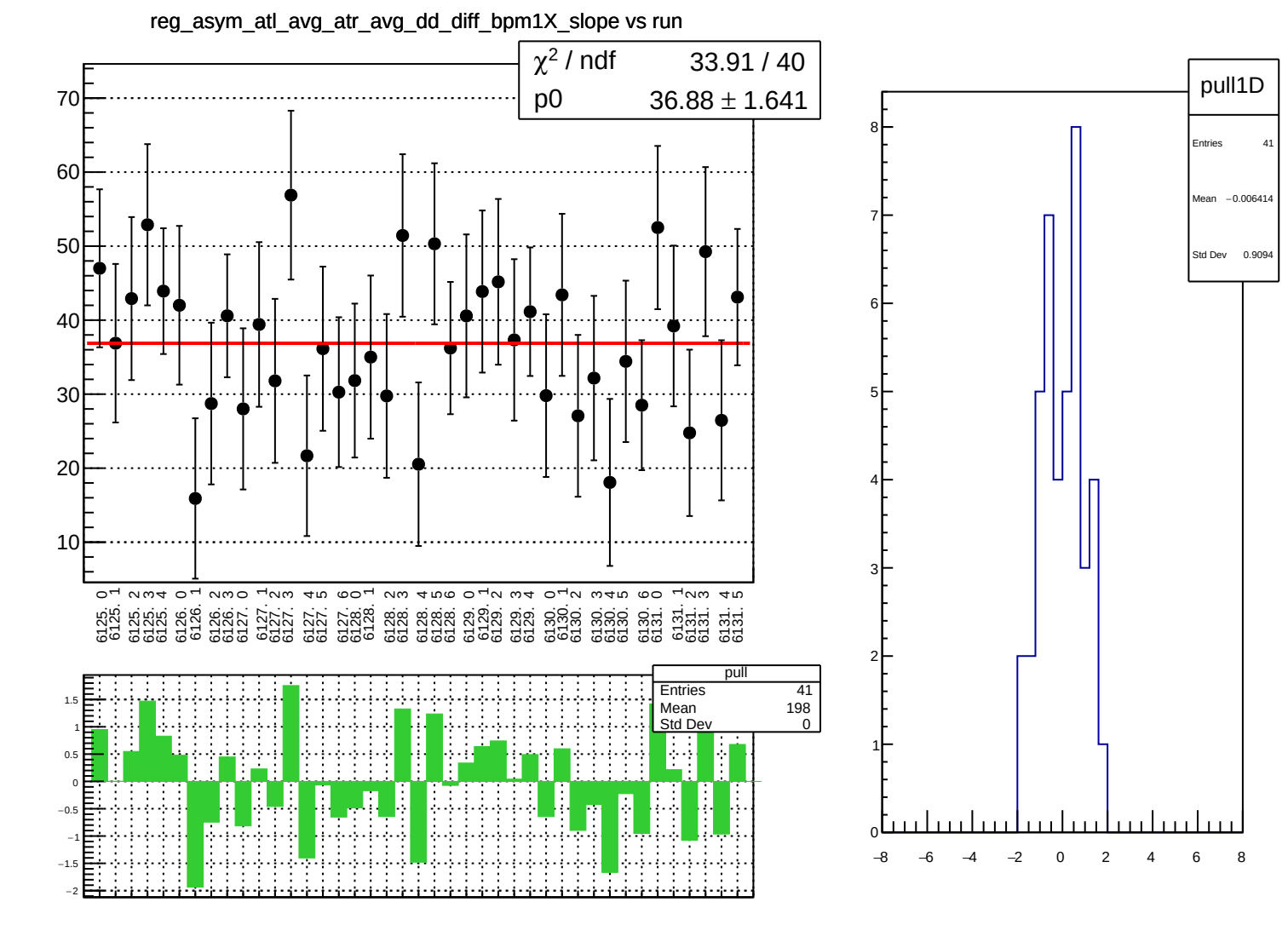

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.251 / 40
p0 11.13 ± 4.608
pull
Entries 41
Mean −1.088
Std Dev 80.49
pull1D
Entries 41
Mean −0.001267
Std Dev 0.3905

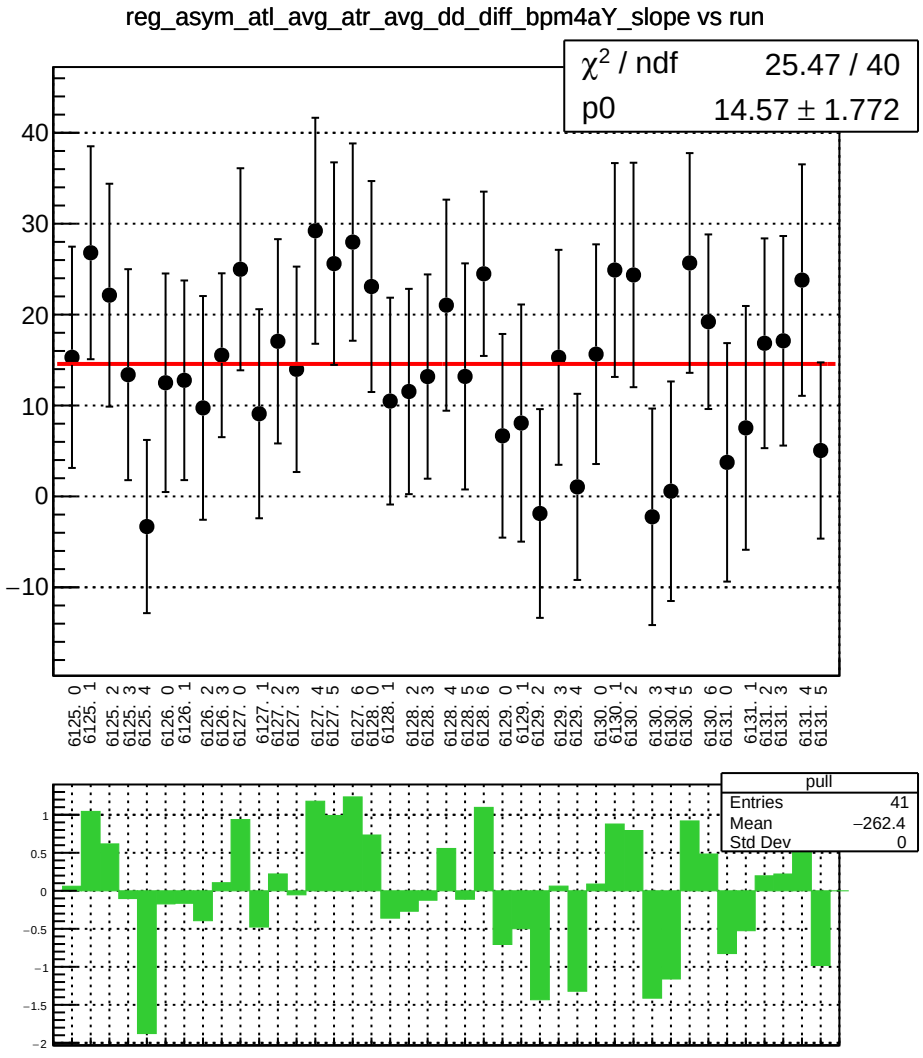

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.349 / 40
p0 292.1 ± 5.207
pull
Entries 41
Mean 256.1
Std Dev 0
pull1D
Entries 41
Mean 0.006414
Std Dev 0.4233

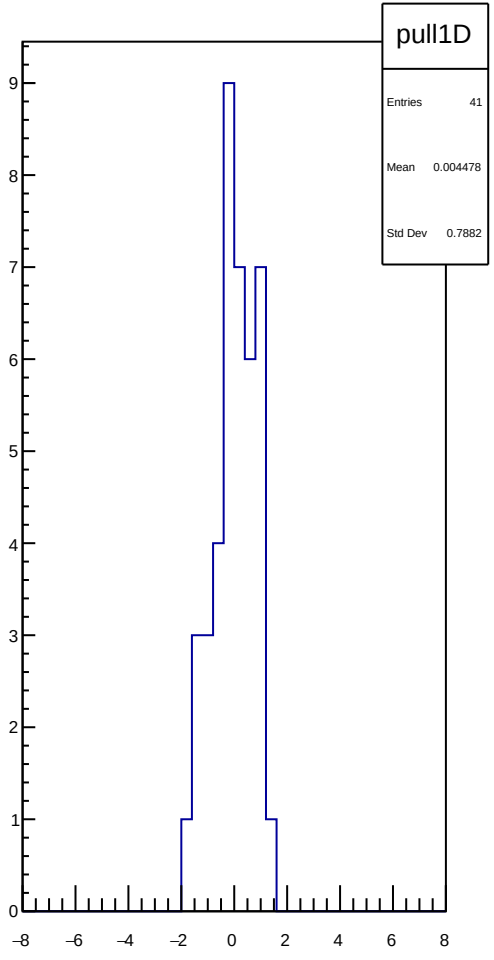

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.463 / 40
p0 45.49 ± 4.878
pull
Entries 41
Mean 116.8
Std Dev 0
pull1D
Entries 41
Mean 0.002141
Std Dev 0.397

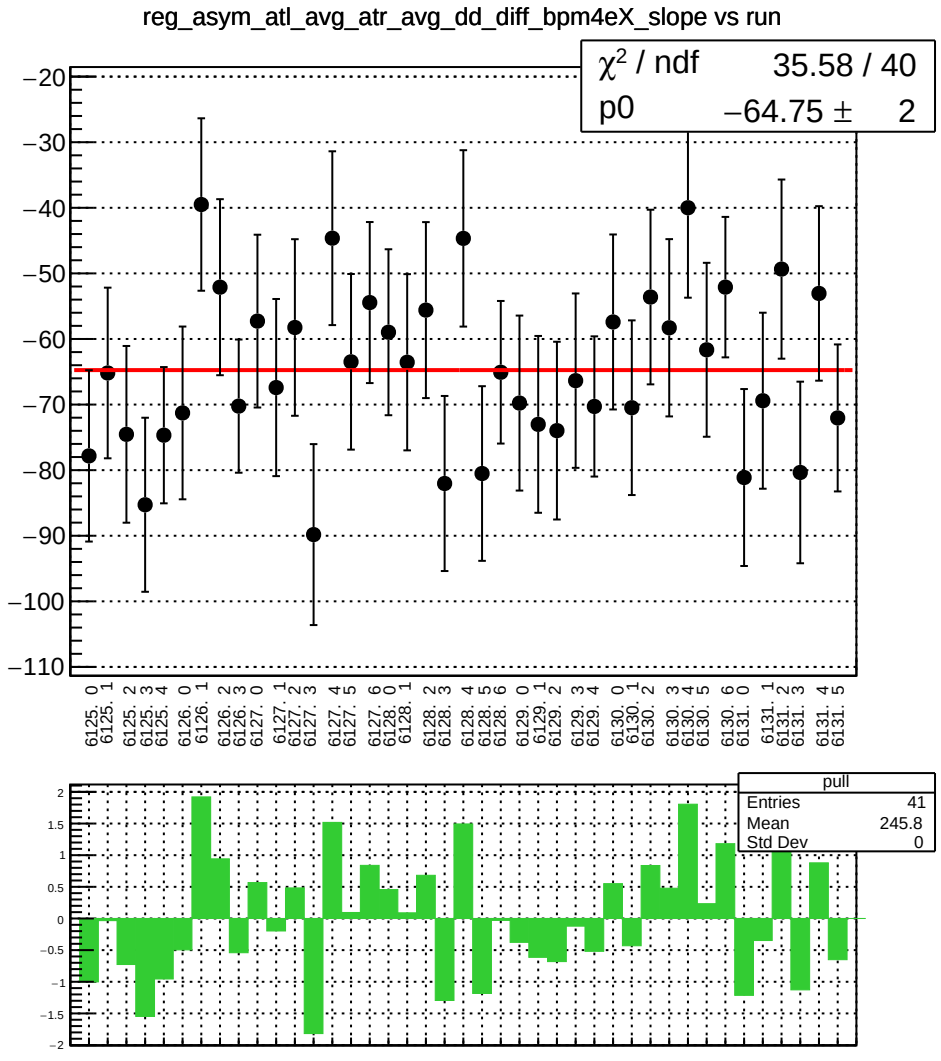

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 10.96 / 40
p0 −121.8 ± 0.4091
−116
−118
−120
−122
−124
−126
−128
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −258.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

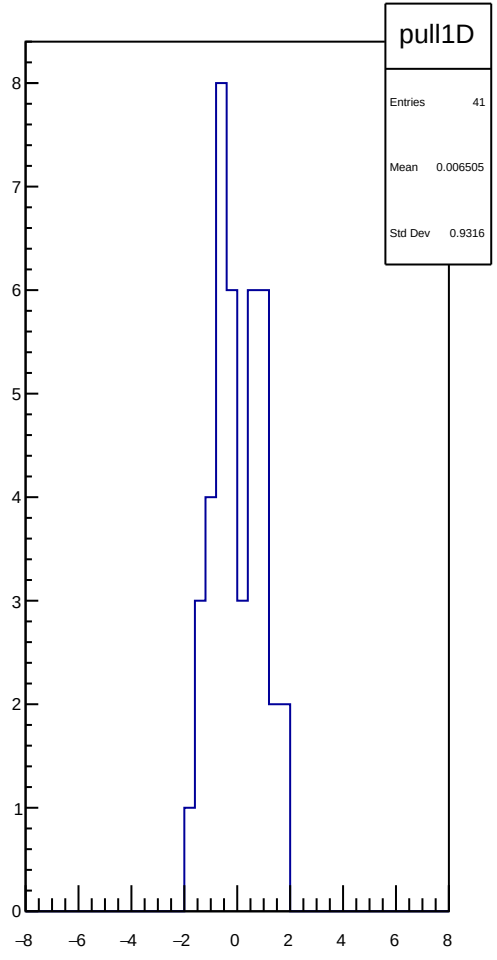

pull1D
Entries 41
Mean 0.006216
Std Dev 0.5171
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

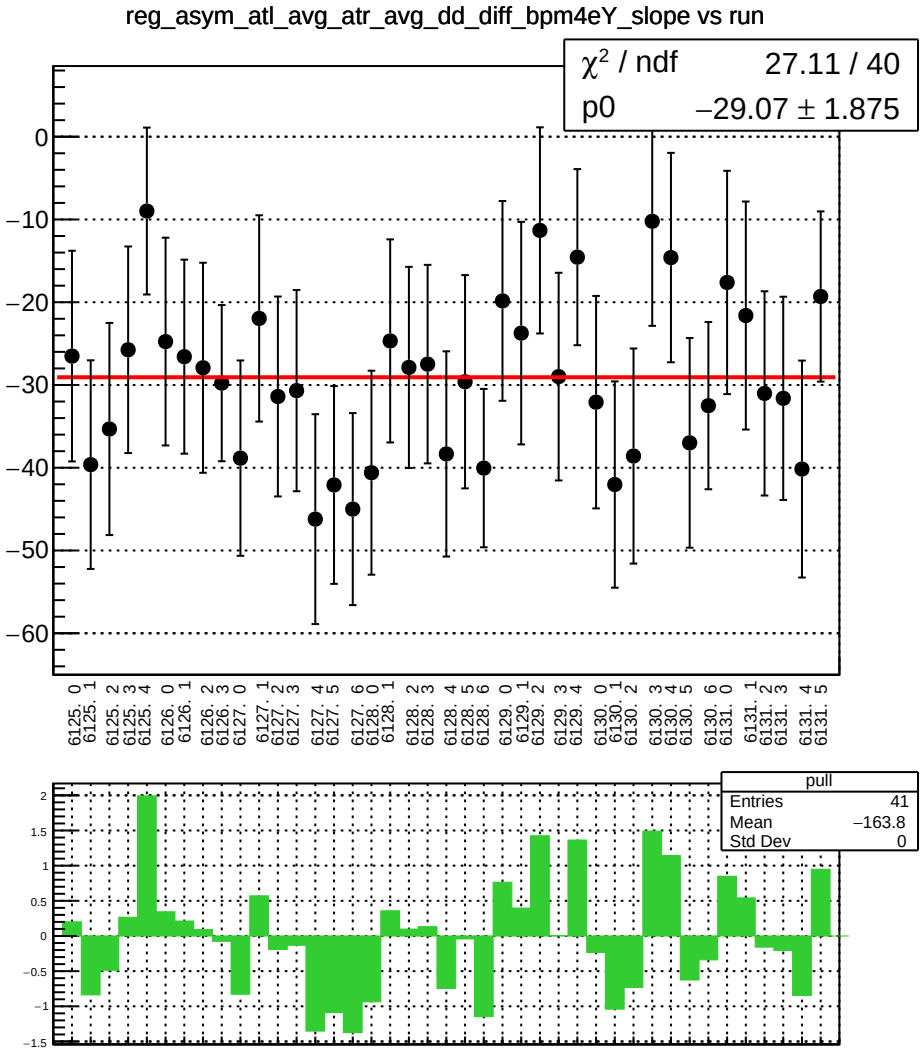

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 33.91 / 40
p0 36.88 ± 1.641
pull
Entries 41
Mean 198
Std Dev 0
pull1D
Entries 41
Mean −0.006414
Std Dev 0.9094

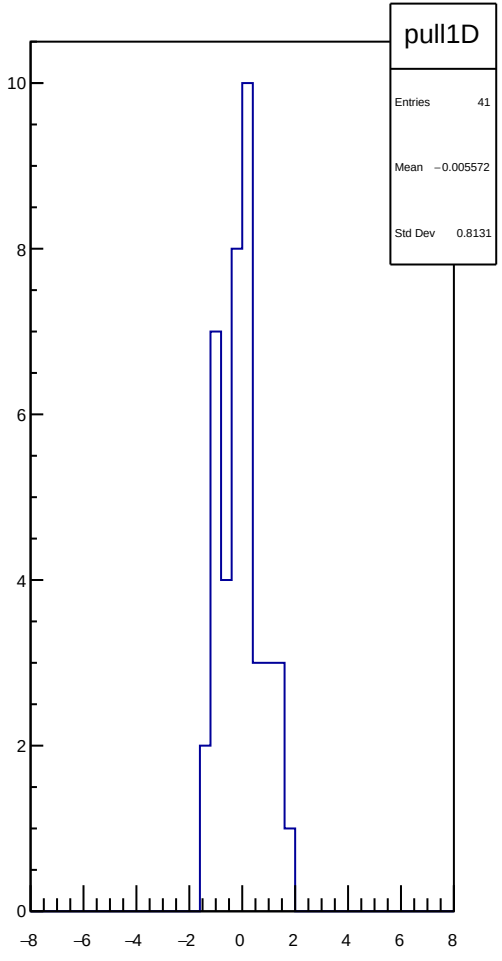

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.47 / 40
p0 14.57 ± 1.772
pull
Entries 41
Mean −262.4
Std Dev 0

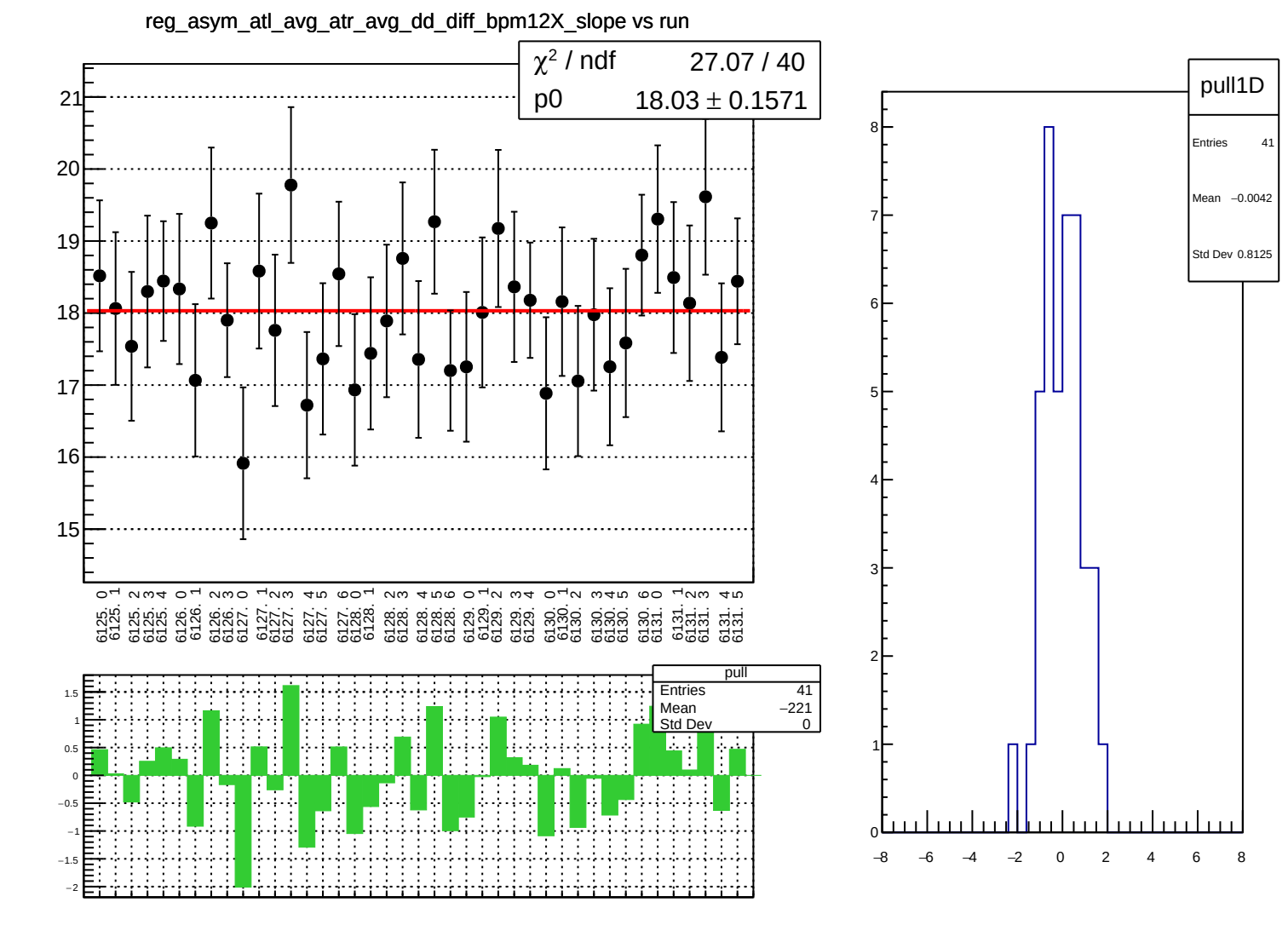

pull1D
Entries 41
Mean 0.004478
Std Dev 0.7882

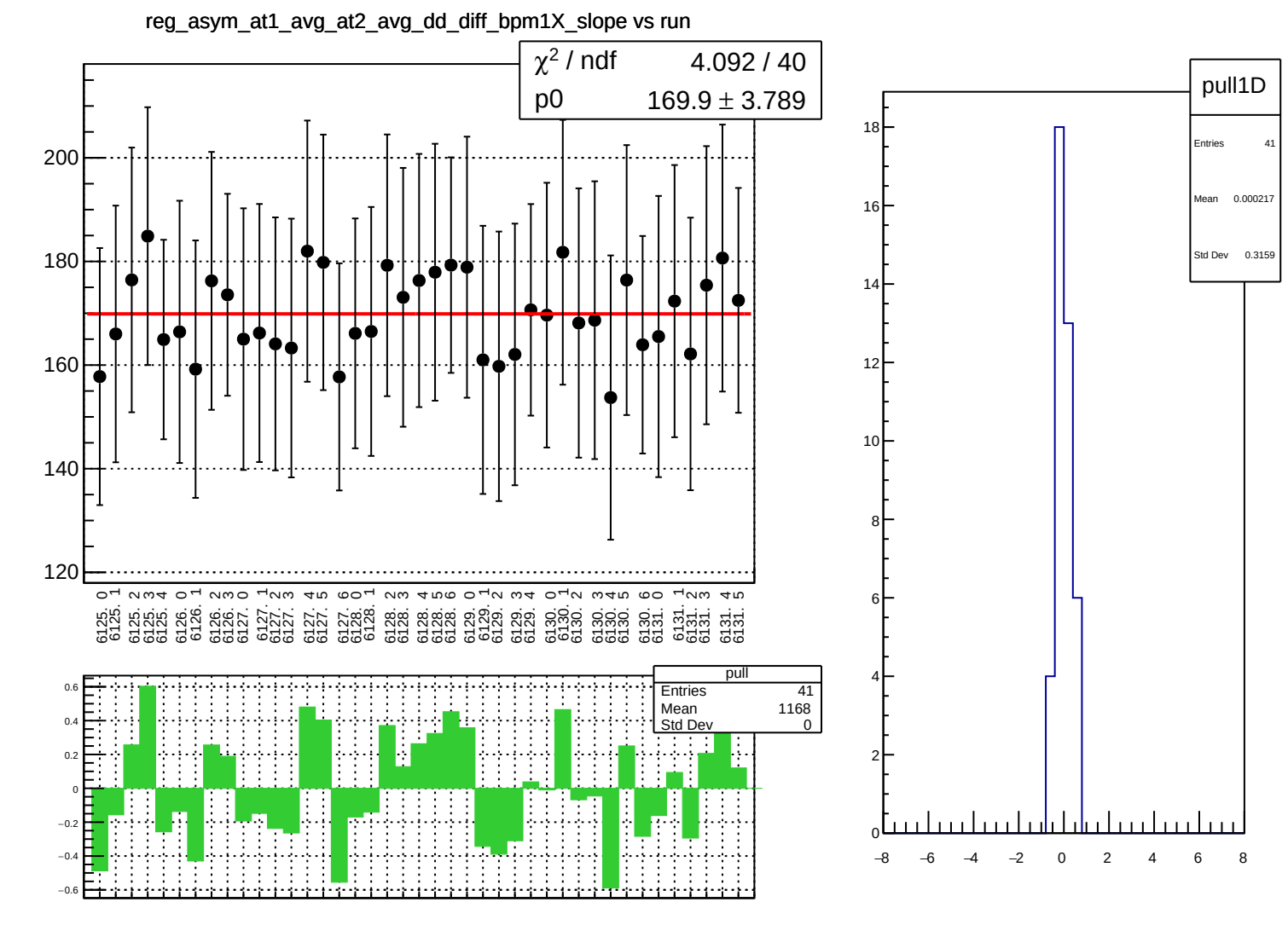

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.58 / 40
p0 −64.75 ± 2
pull
Entries 41
Mean 245.8
Std Dev 0

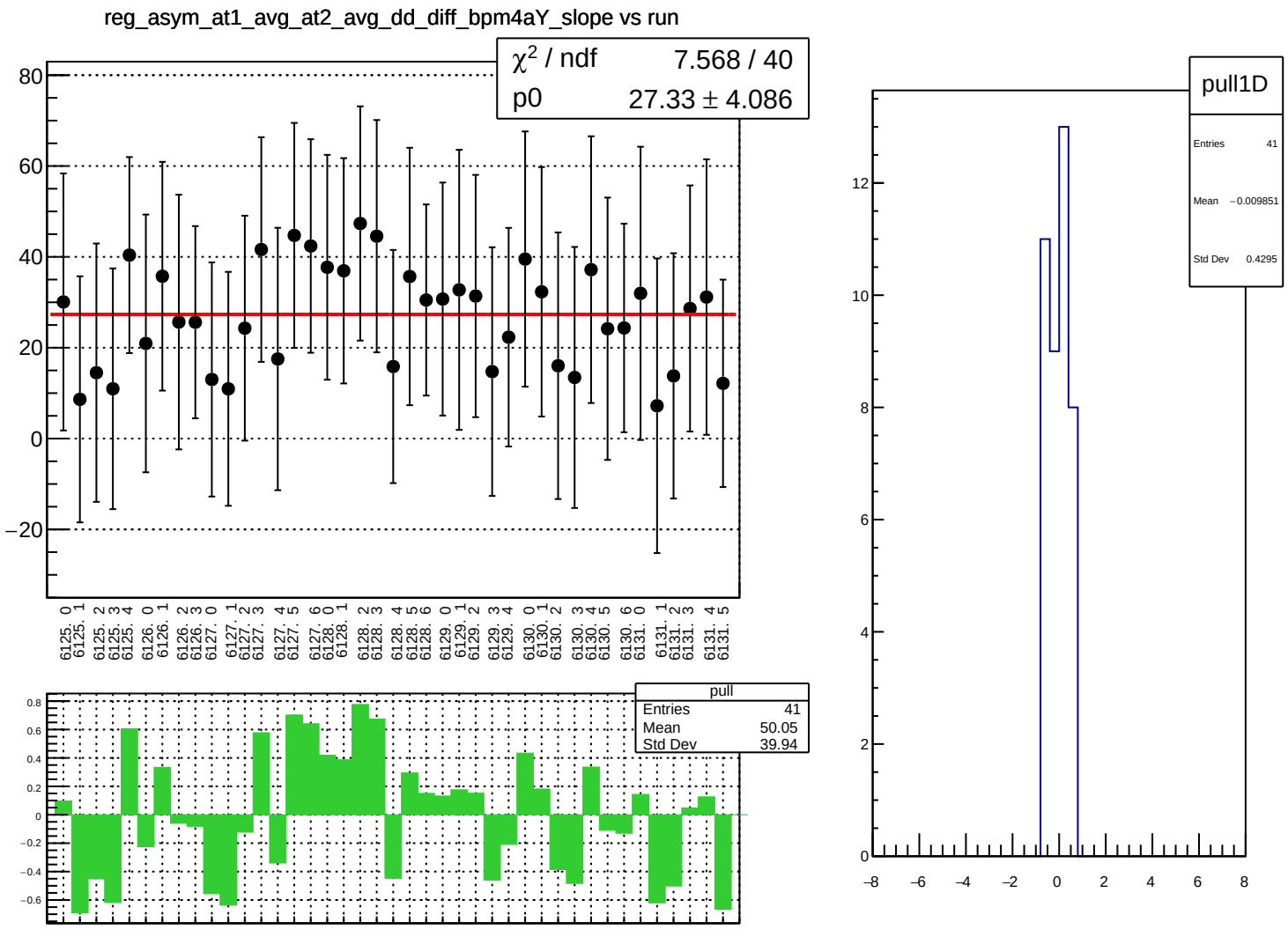

pull1D
Entries 41
Mean 0.006505
Std Dev 0.9316

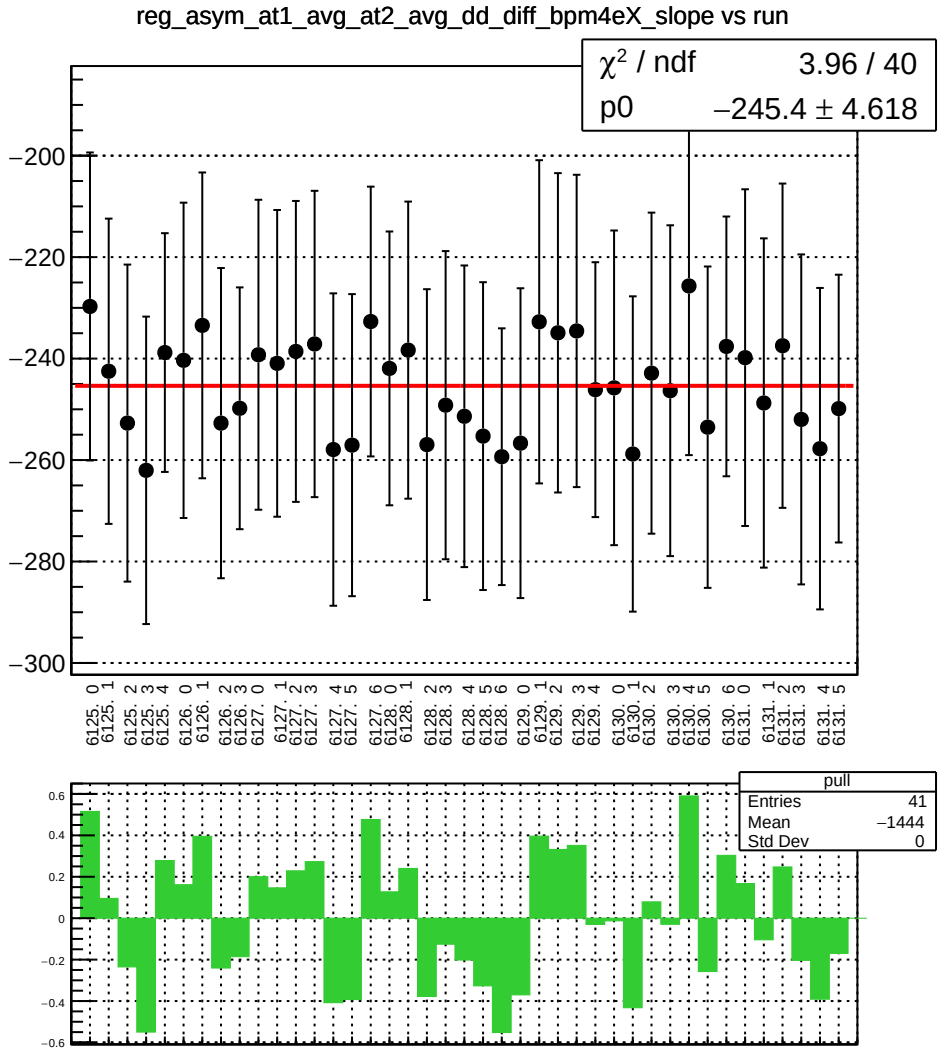

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.11 / 40
p0 −29.07 ± 1.875
pull
Entries 41
Mean −163.8
Std Dev 0

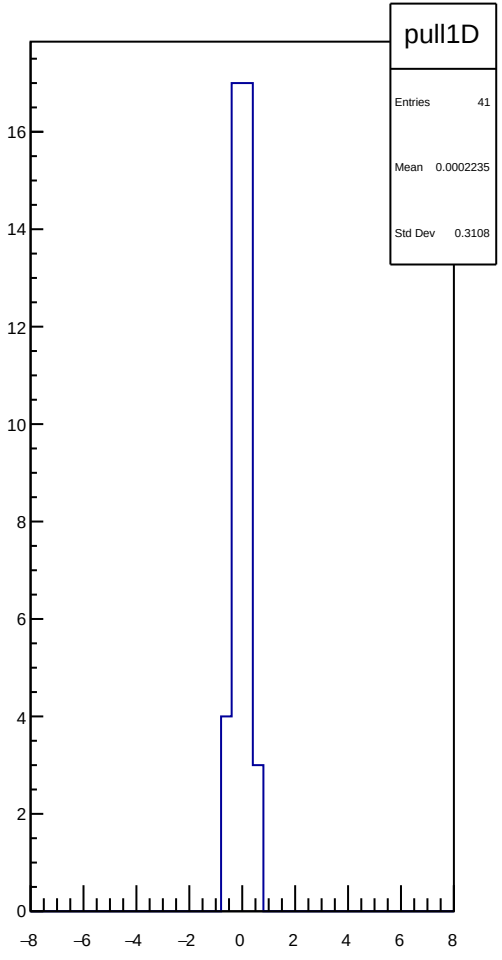

pull1D
Entries 41
Mean −0.005572
Std Dev 0.8131

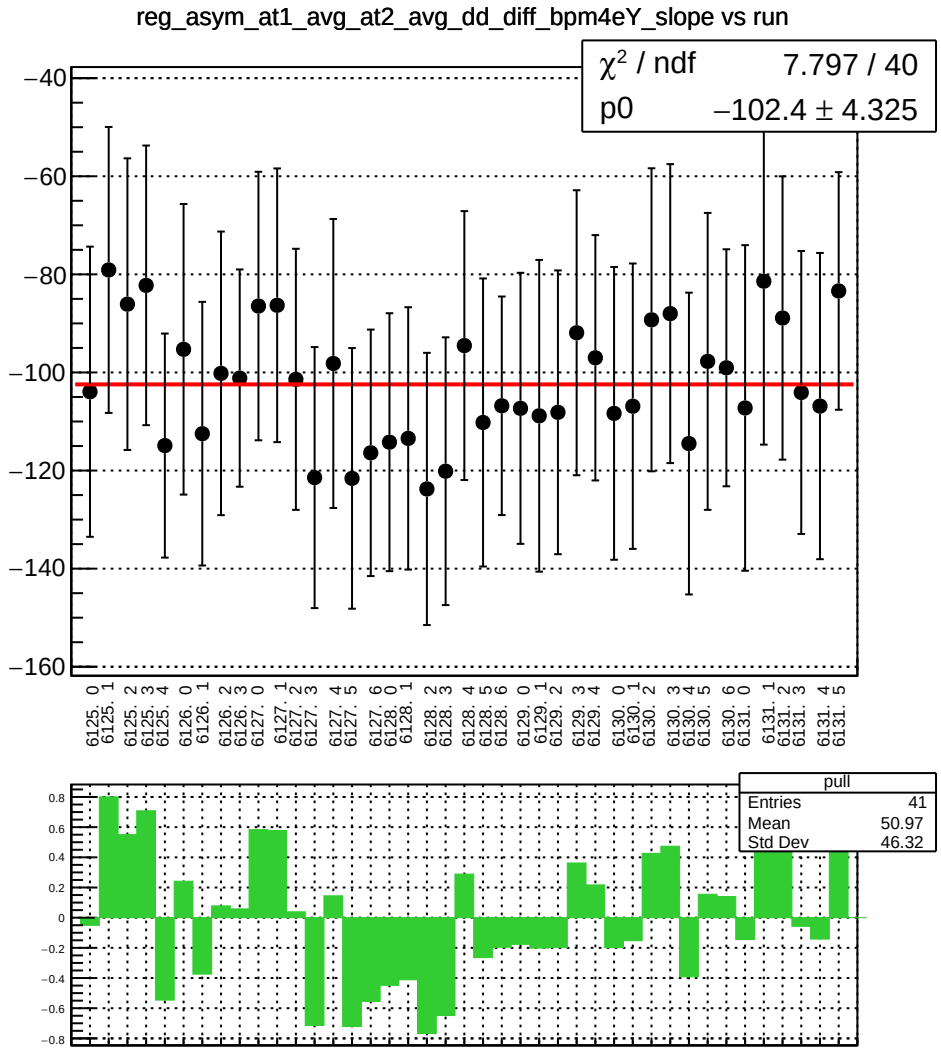

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 27.07 / 40
p0 18.03 ± 0.1571
pull
Entries 41
Mean −221
Std Dev 0
pull1D
Entries 41
Mean −0.0042
Std Dev 0.8125

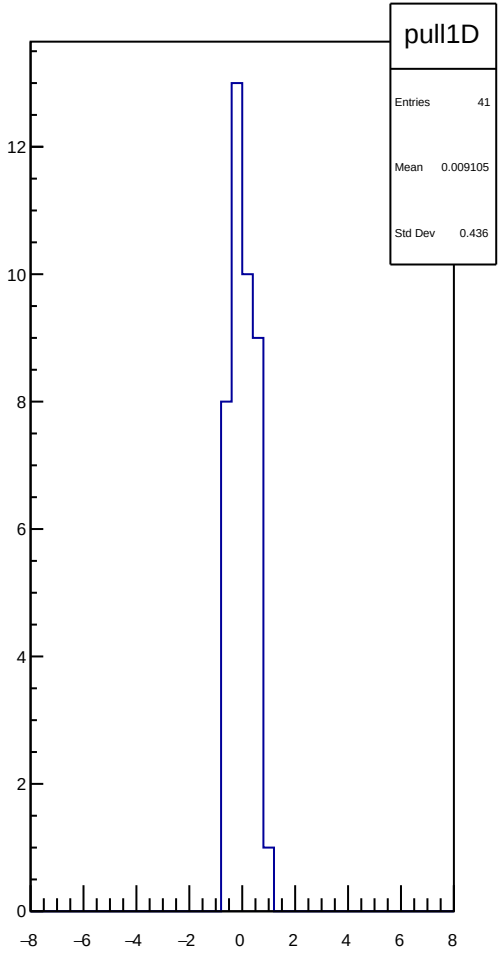

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 4.092 / 40
p0 169.9 ± 3.789
200
180
160
140
120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1168
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean 0.000217
Std Dev 0.3159
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

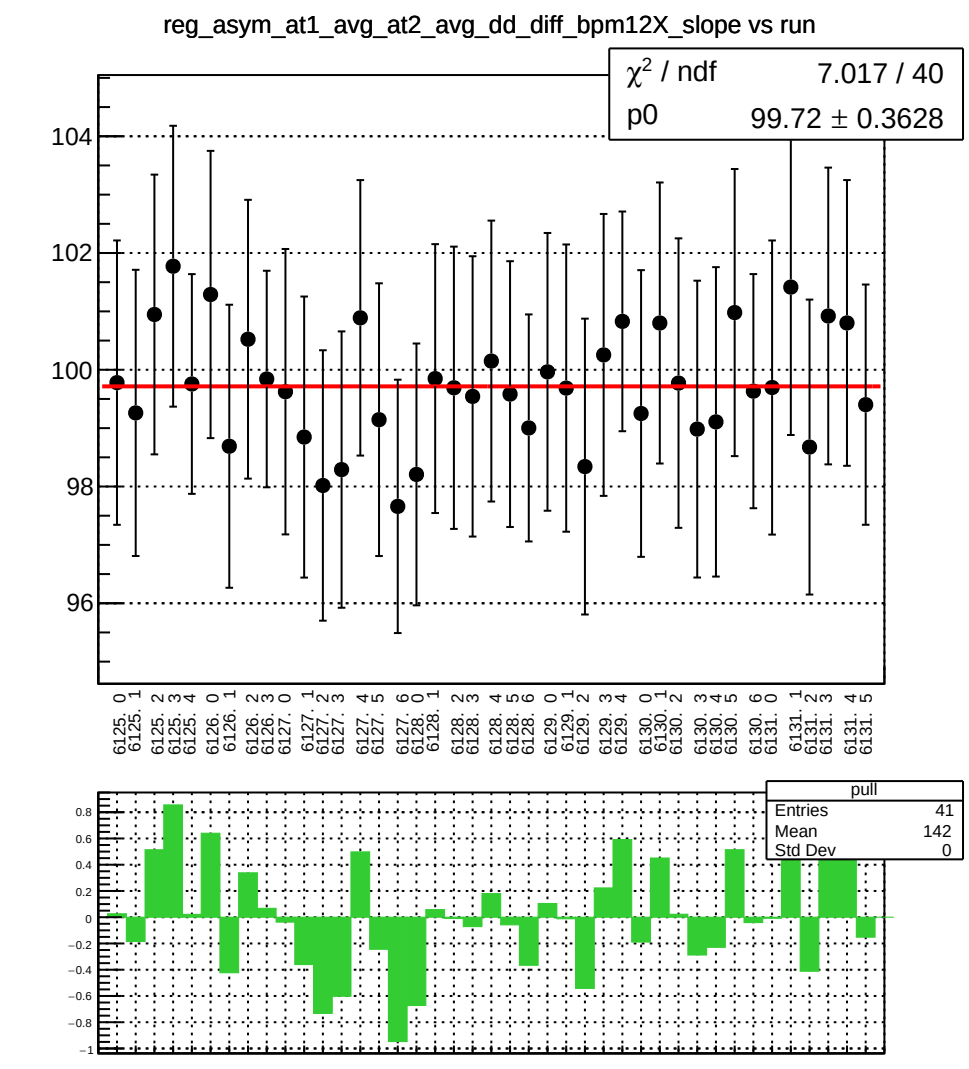

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.568 / 40
p0 27.33 ± 4.086
pull
Entries 41
Mean 50.05
Std Dev 39.94
pull1D
Entries 41
Mean −0.009851
Std Dev 0.4295

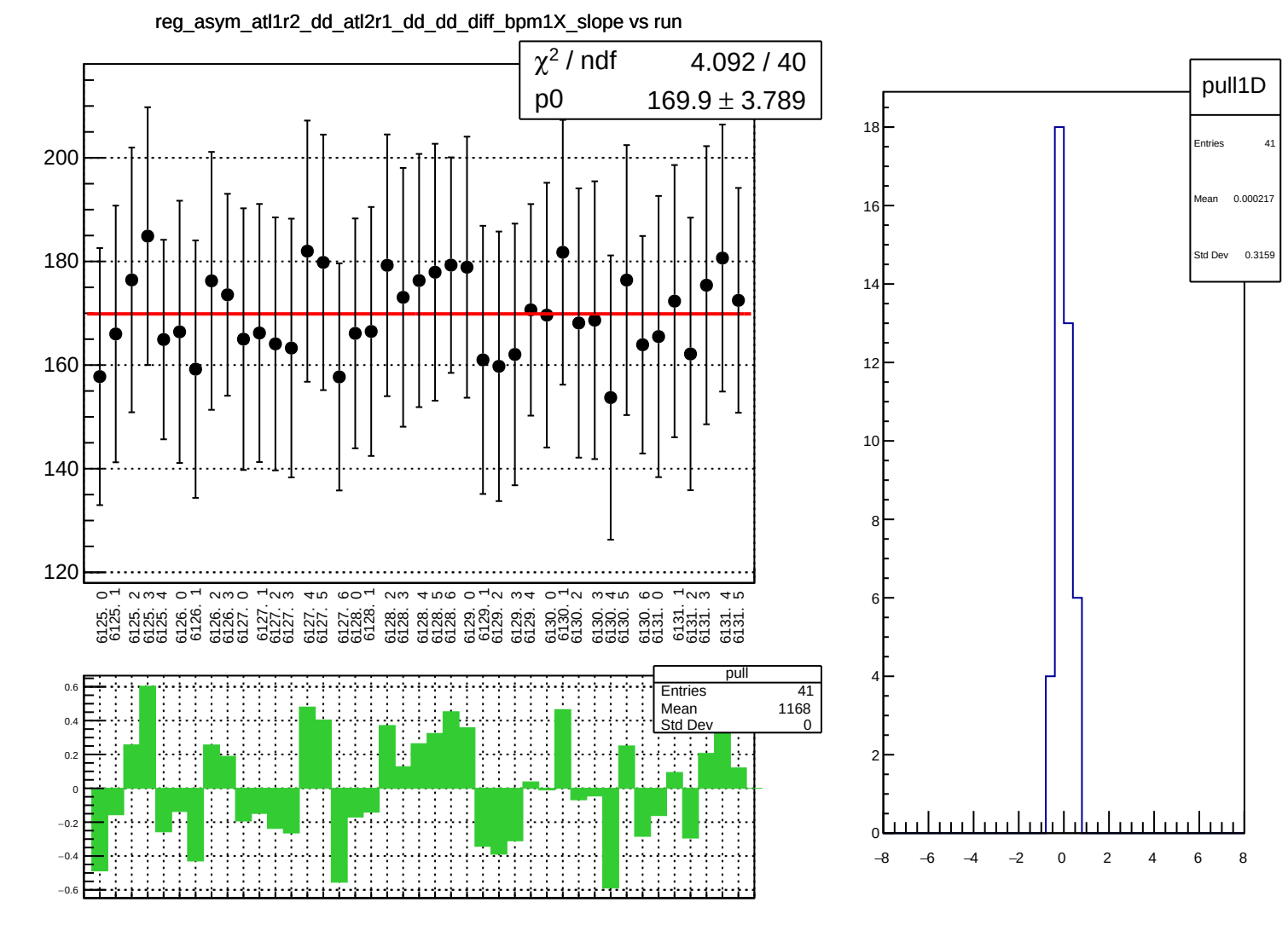

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.96 / 40
p0 −245.4 ± 4.618
−200
−220
−240
−260
−280
−300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1444
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

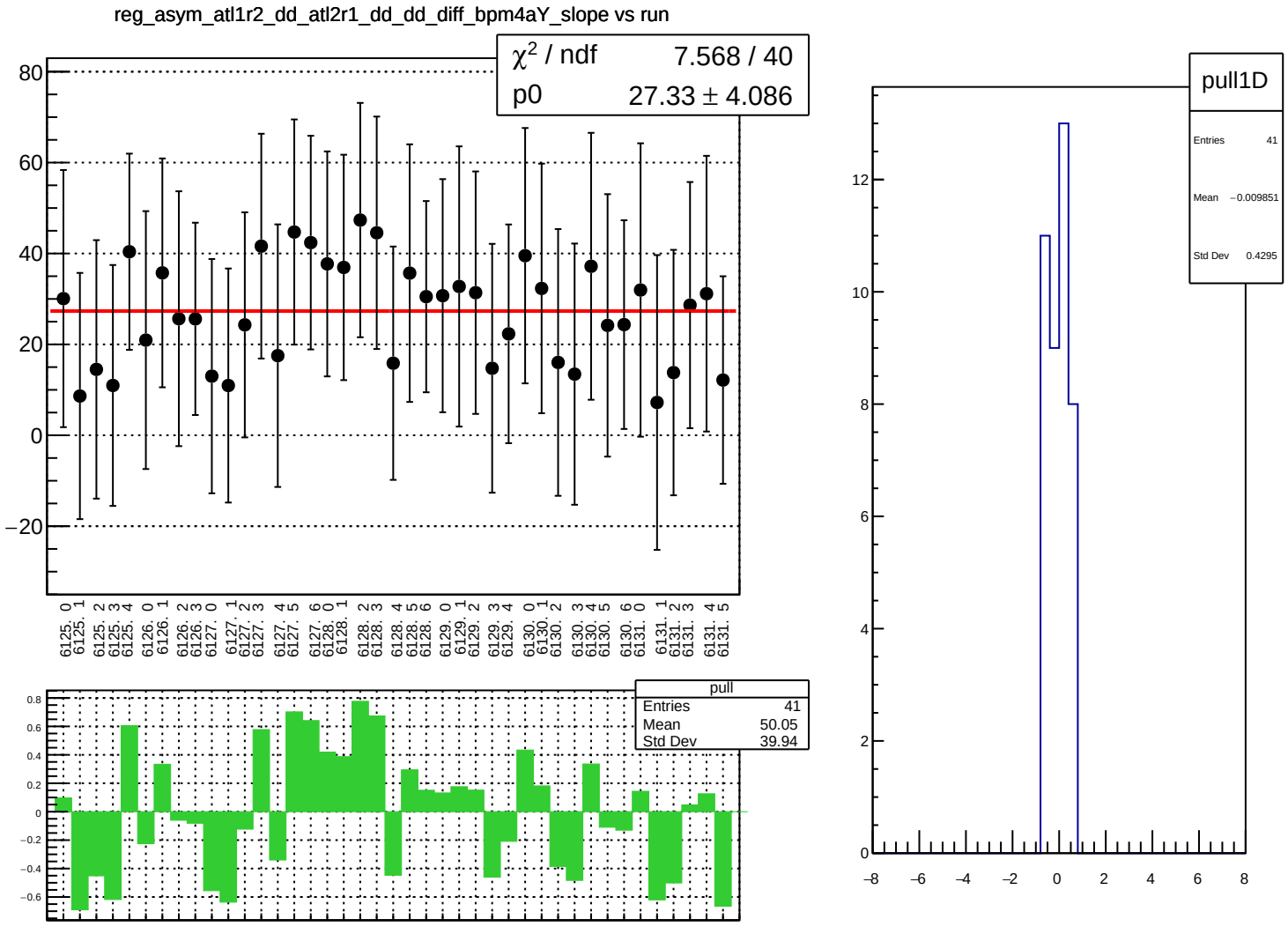

pull1D
Entries 41
Mean 0.0002235
Std Dev 0.3108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

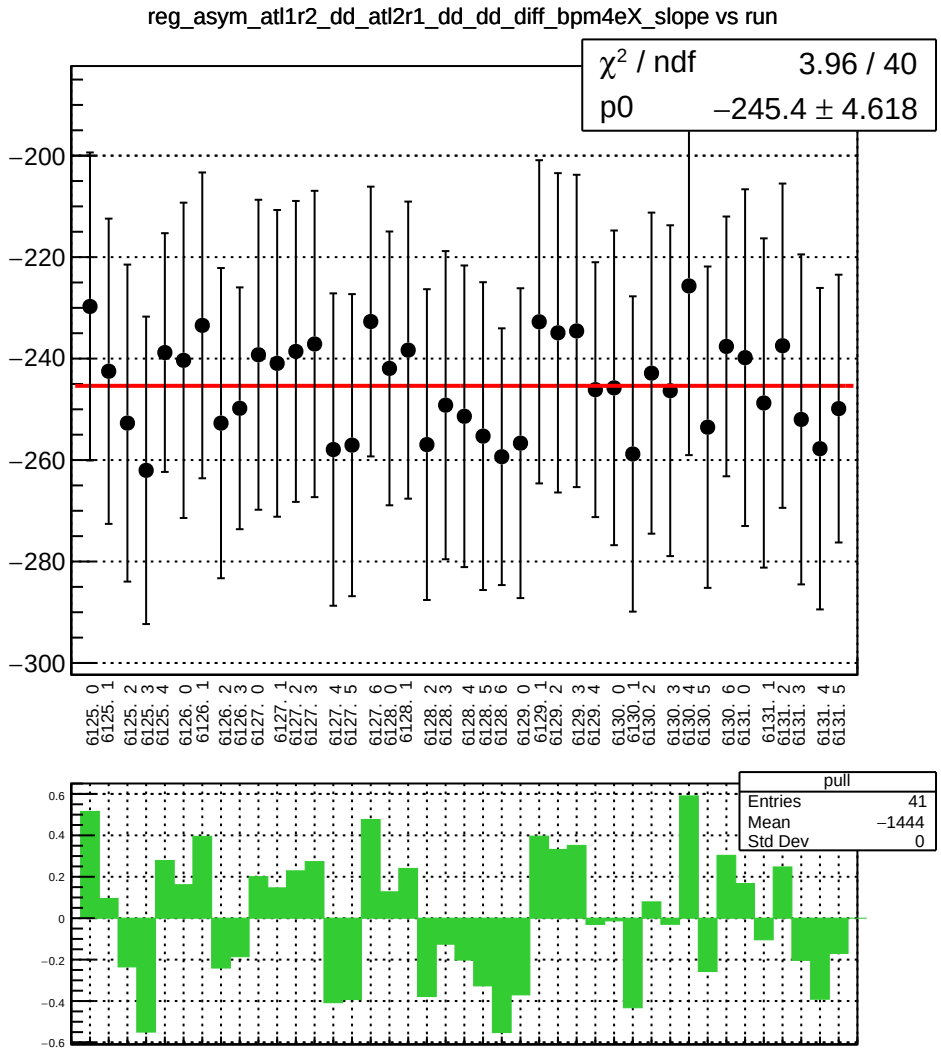

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.797 / 40
p0 −102.4 ± 4.325
−40
−60
−80
−100
−120
−140
−160
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 50.97
Std Dev 46.32
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

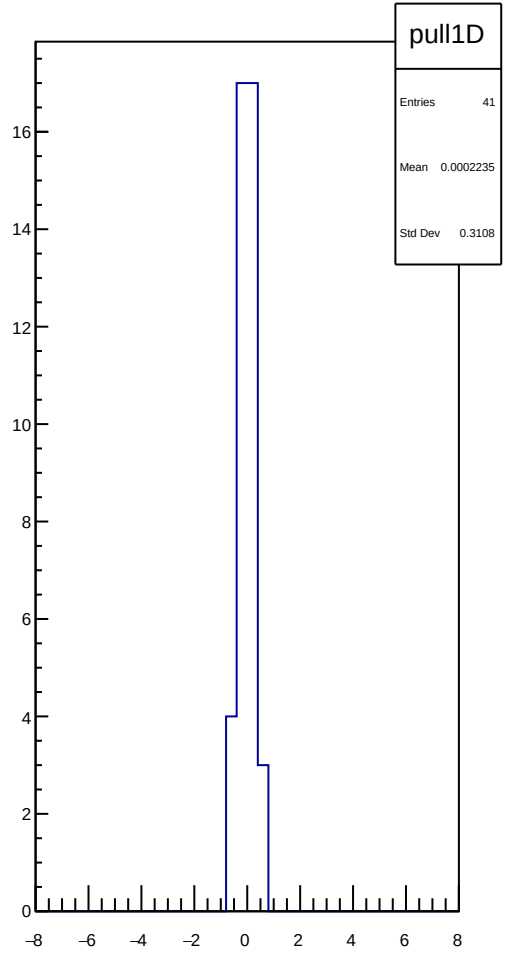

pull1D
Entries 41
Mean 0.009105
Std Dev 0.436
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

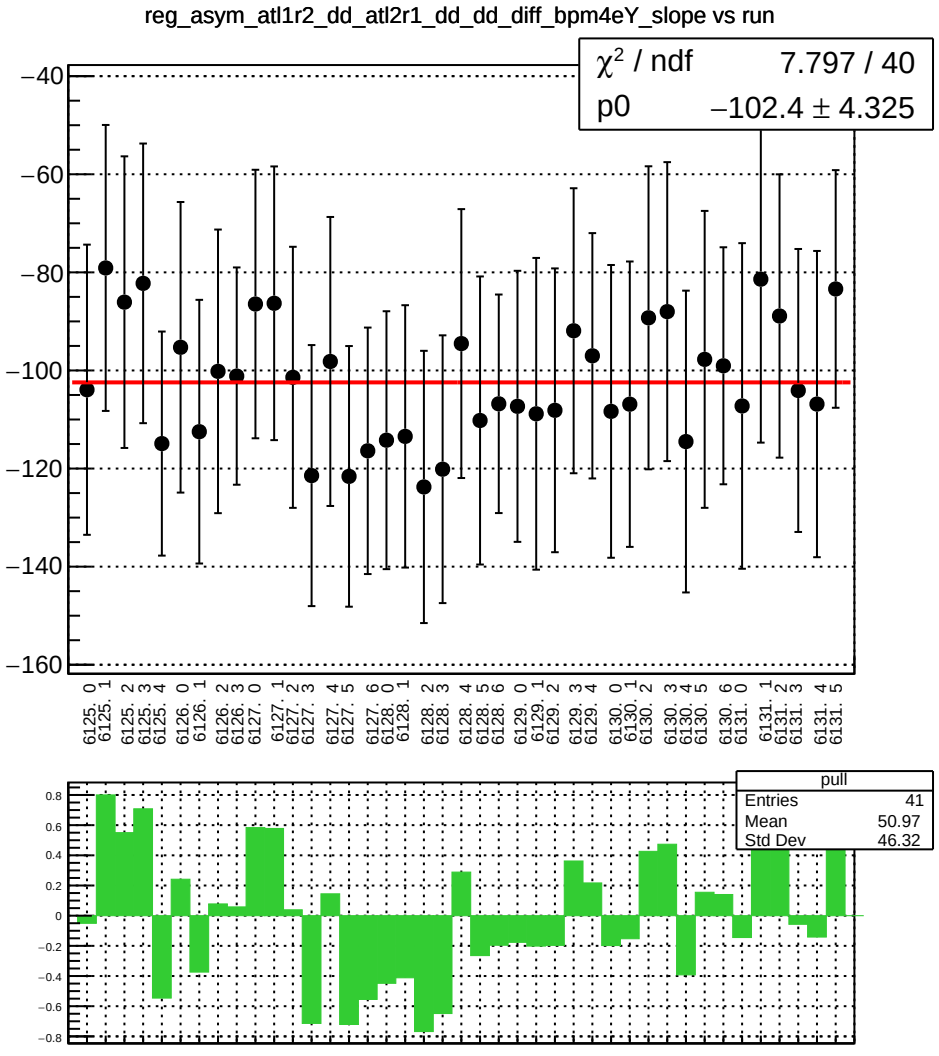

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 7.017 / 40
p0 99.72 ± 0.3628
104
102
100
98
96
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 142
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 41
Mean 0.002709
Std Dev 0.4137
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

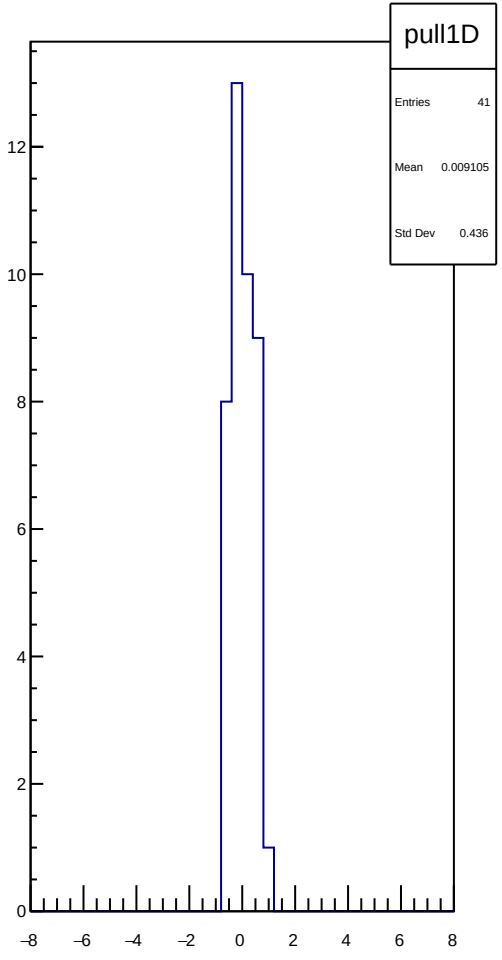

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 4.092 / 40
p0 169.9 ± 3.789
200
180
160
140
120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 1168
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean 0.000217
Std Dev 0.3159
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

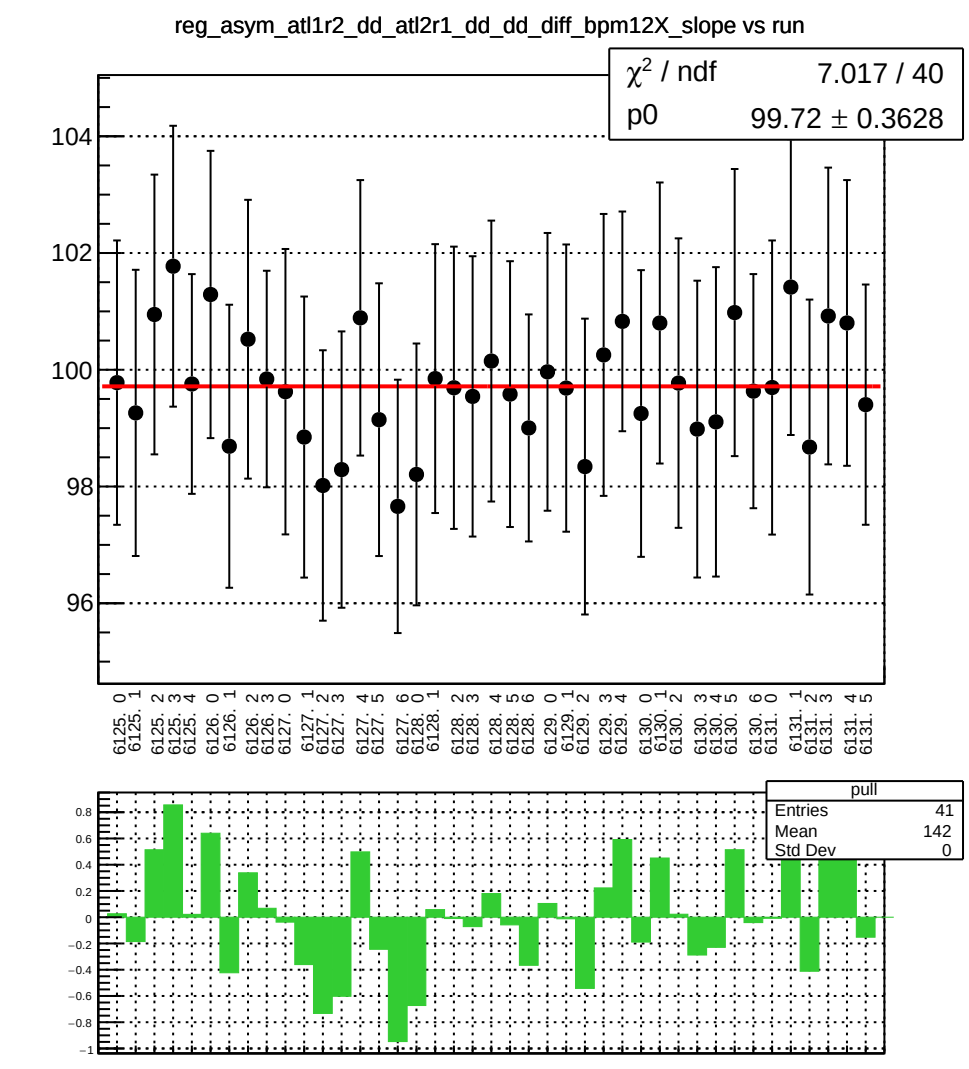

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.568 / 40
p0 27.33 ± 4.086
80
60
40
20
0
−20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6126. 4
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 50.05
Std Dev 39.94
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean −0.009851
Std Dev 0.4295
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

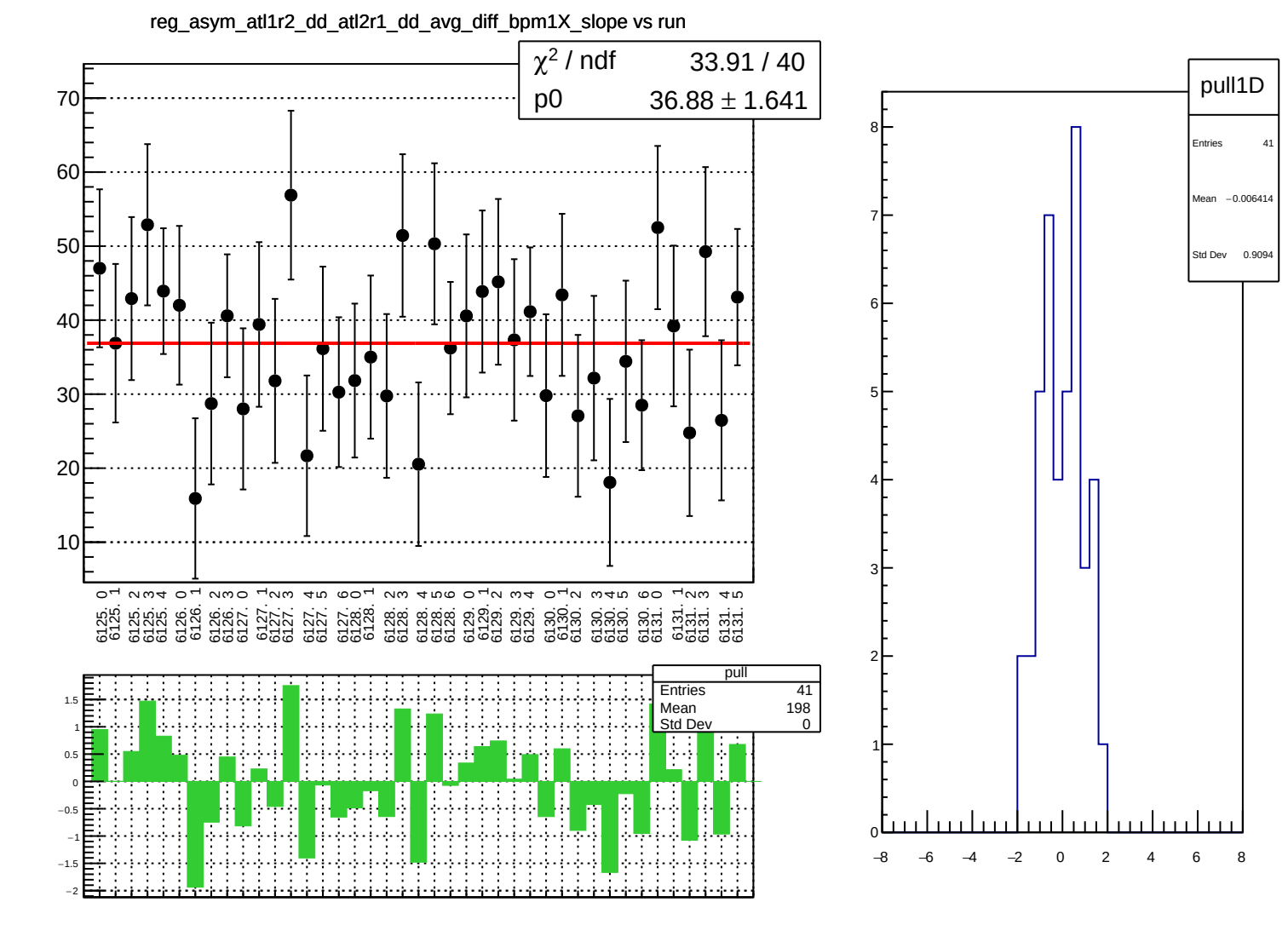

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.96 / 40
p0 −245.4 ± 4.618
pull
Entries 41
Mean −1444
Std Dev 0

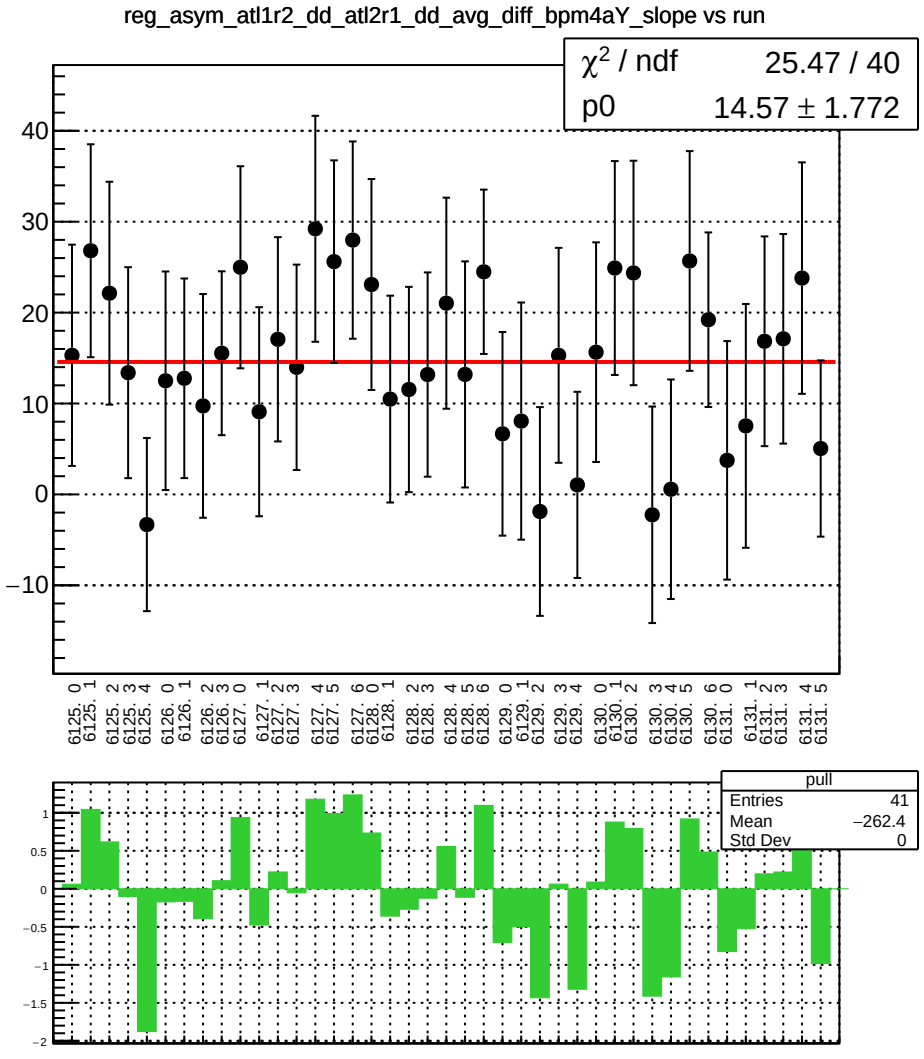

pull1D
Entries 41
Mean 0.0002235
Std Dev 0.3108

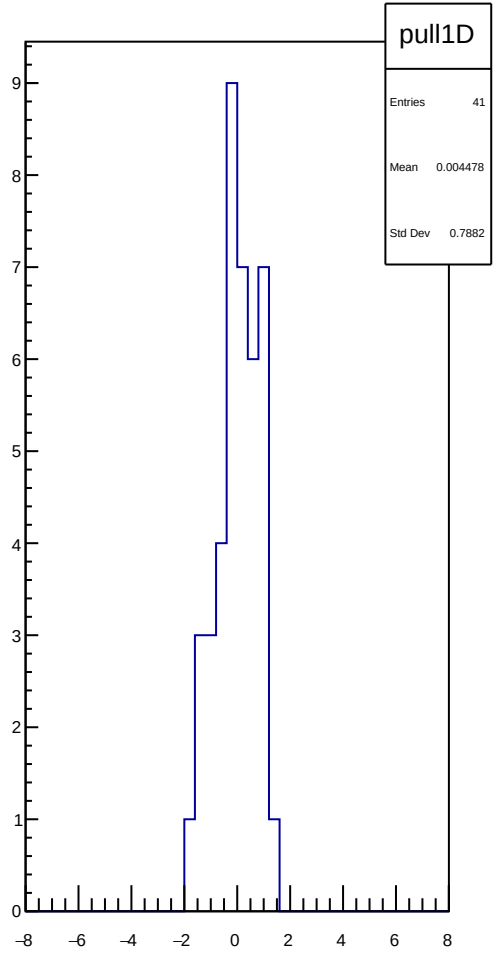

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.797 / 40
p0 −102.4 ± 4.325
−40
−60
−80
−100
−120
−140
−160
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 50.97
Std Dev 46.32
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

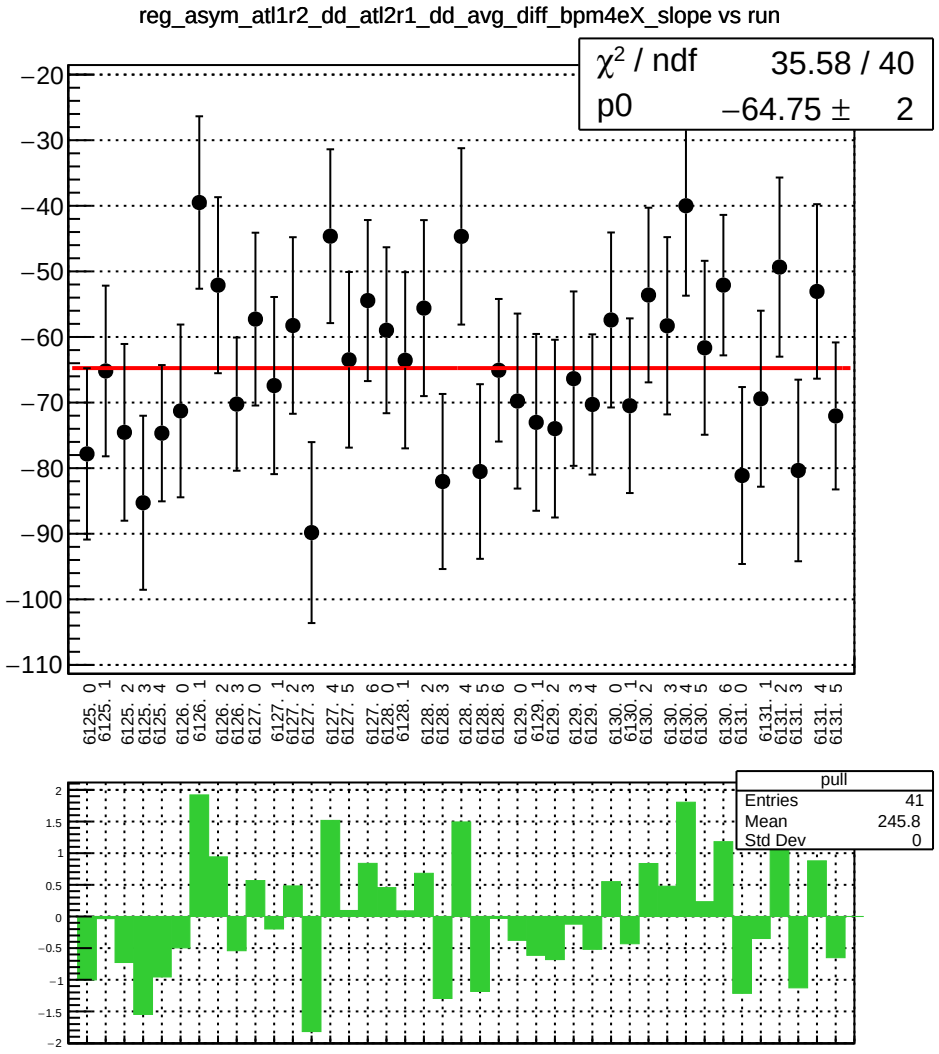

pull1D
Entries 41
Mean 0.009105
Std Dev 0.436
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

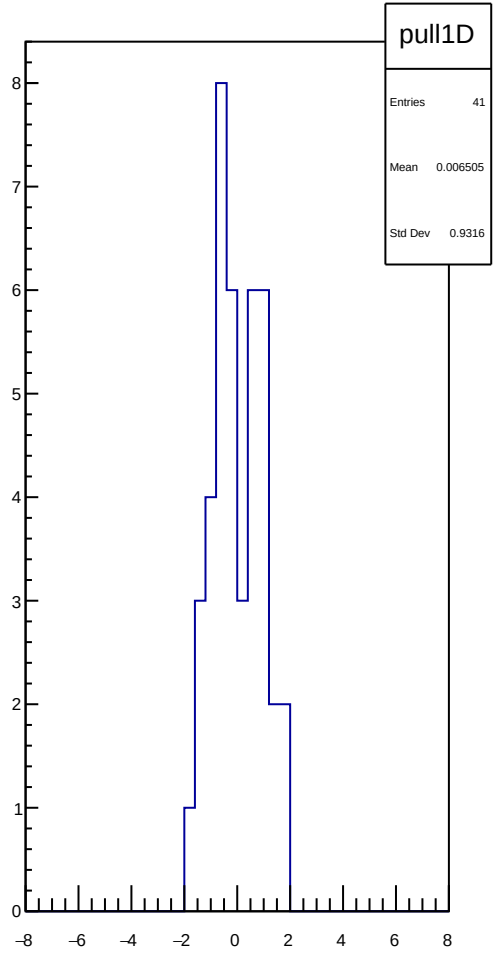

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 7.017 / 40
p0 99.72 ± 0.3628
104
102
100
98
96
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 142
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 41
Mean 0.002709
Std Dev 0.4137
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

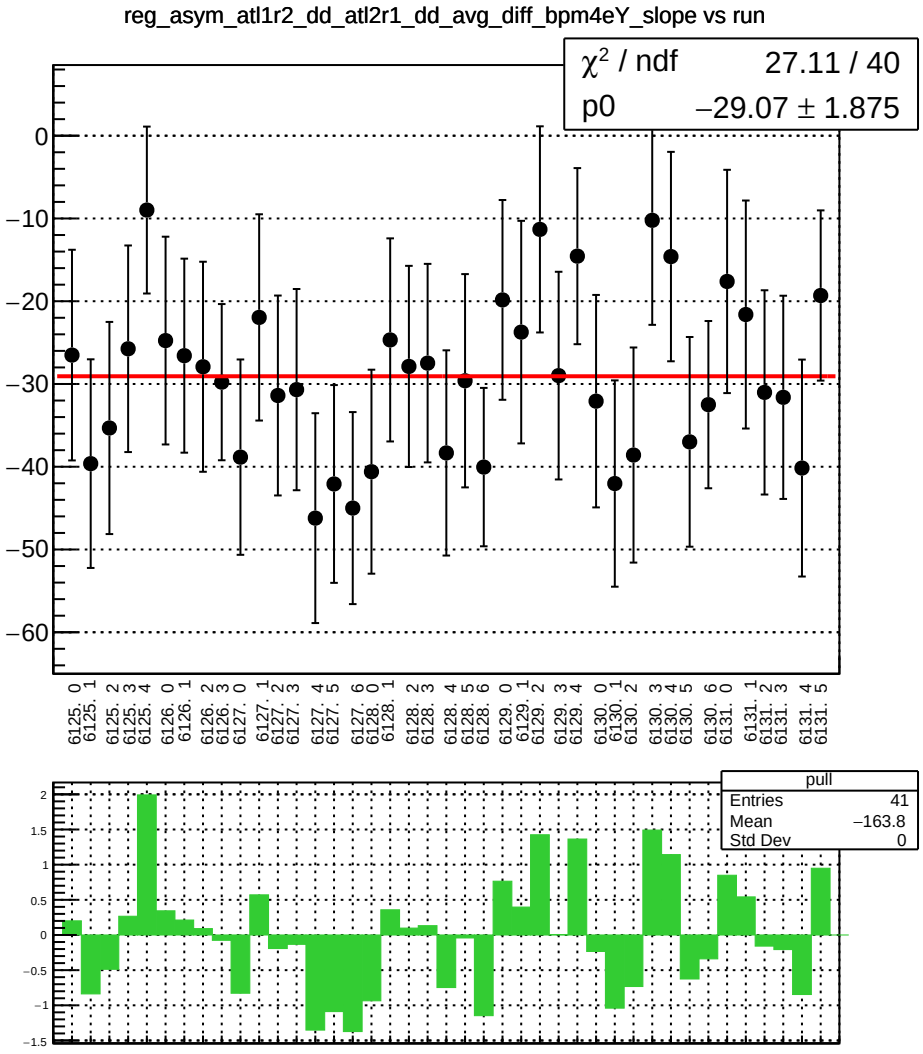

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 33.91 / 40
p0 36.88 ± 1.641
pull
Entries 41
Mean 198
Std Dev 0
pull1D
Entries 41
Mean −0.006414
Std Dev 0.9094

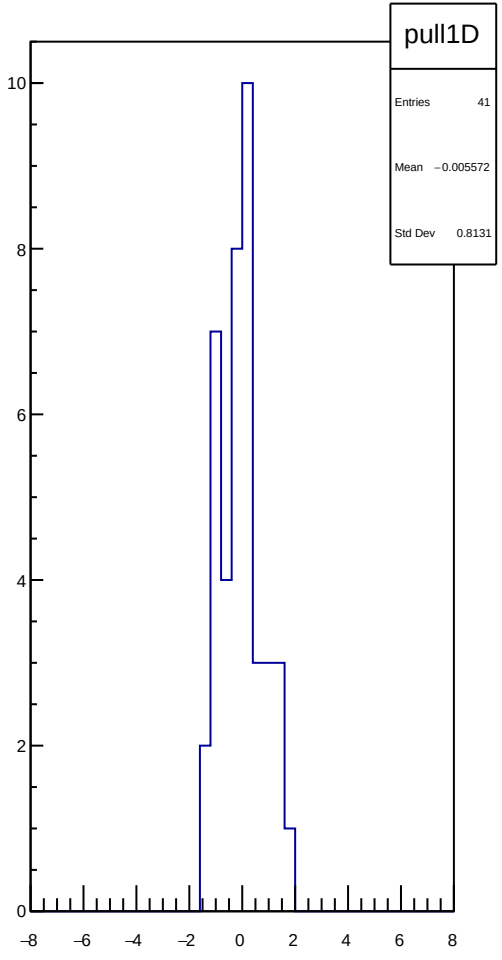

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.47 / 40
p0 14.57 ± 1.772
pull
Entries 41
Mean −262.4
Std Dev 0

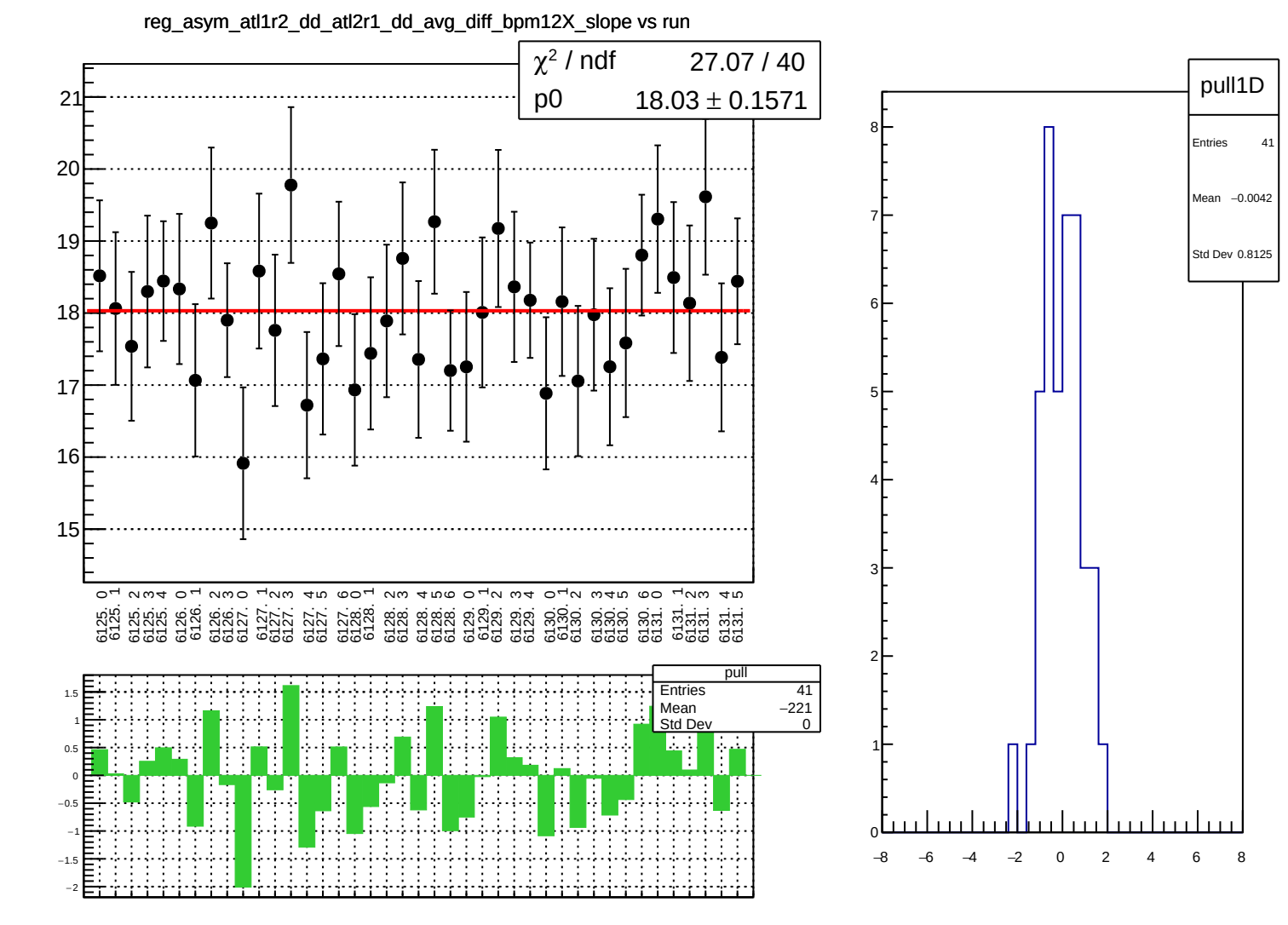

pull1D
Entries 41
Mean 0.004478
Std Dev 0.7882

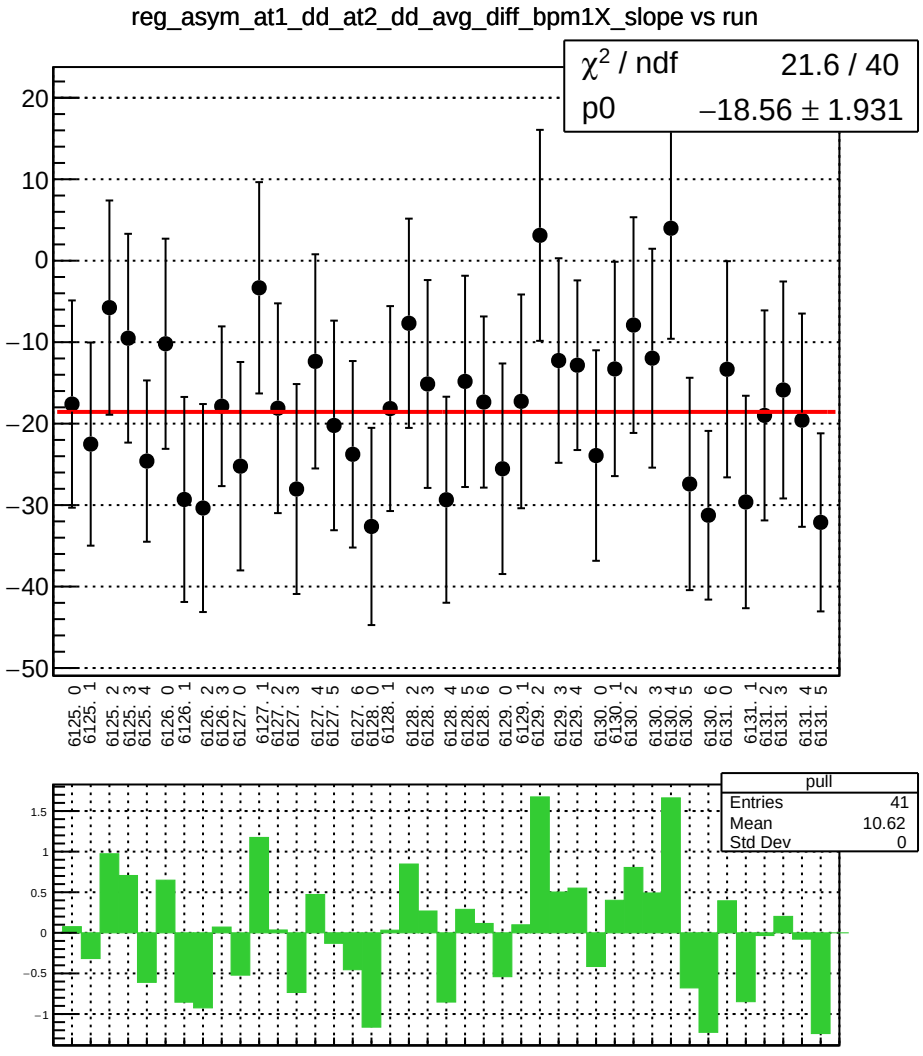

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.58 / 40
p0 −64.75 ± 2
pull
Entries 41
Mean 245.8
Std Dev 0

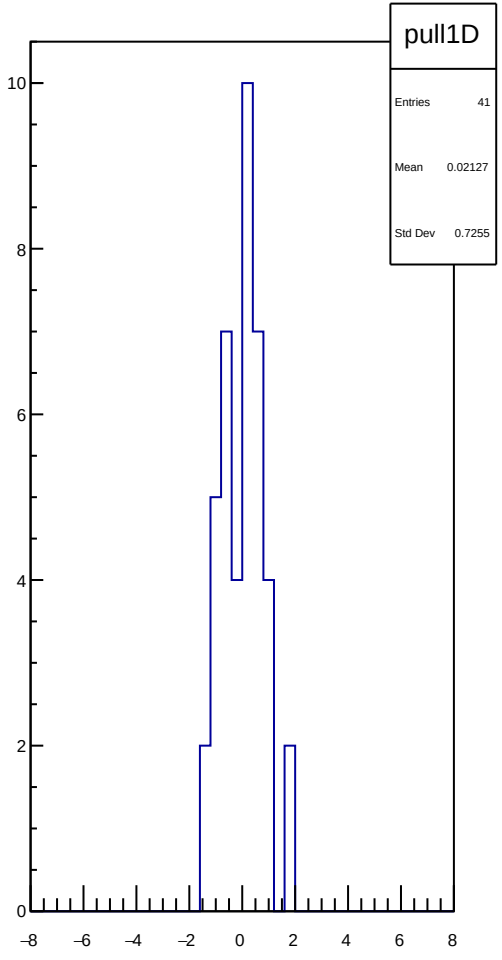

pull1D
Entries 41
Mean 0.006505
Std Dev 0.9316

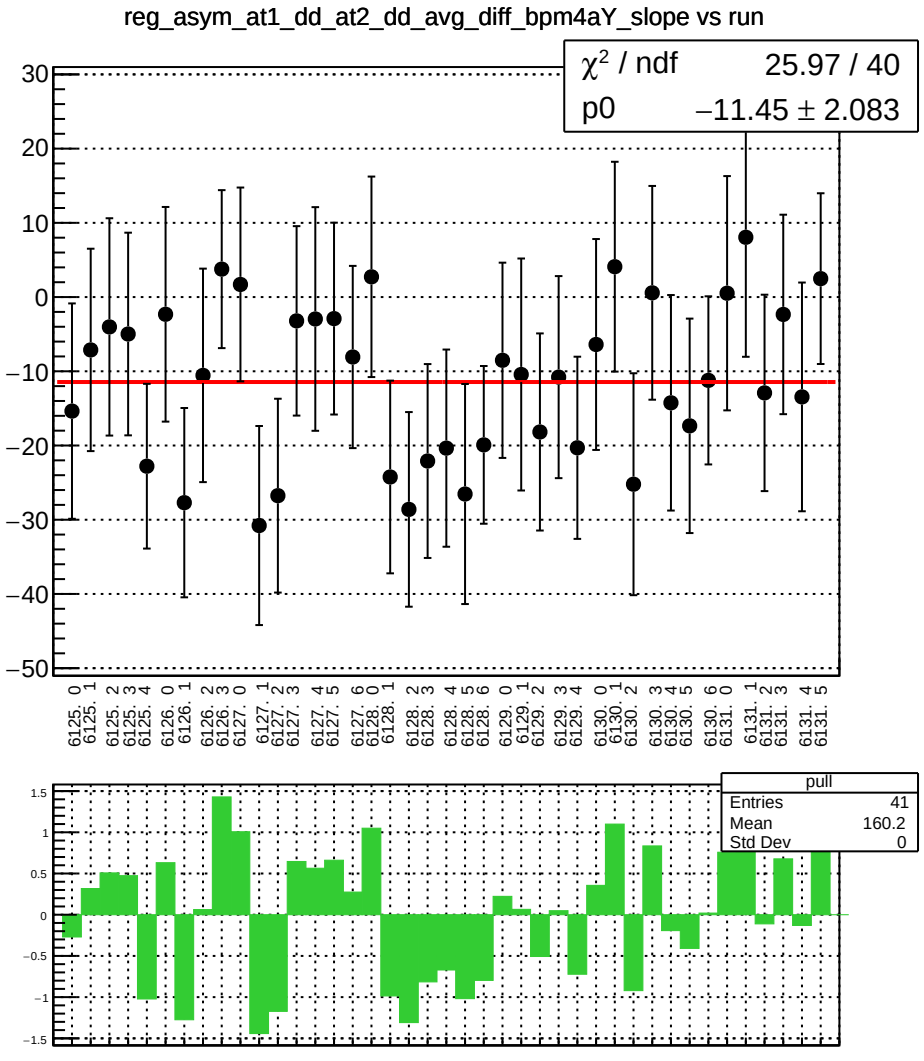

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.11 / 40
p0 −29.07 ± 1.875
pull
Entries 41
Mean −163.8
Std Dev 0

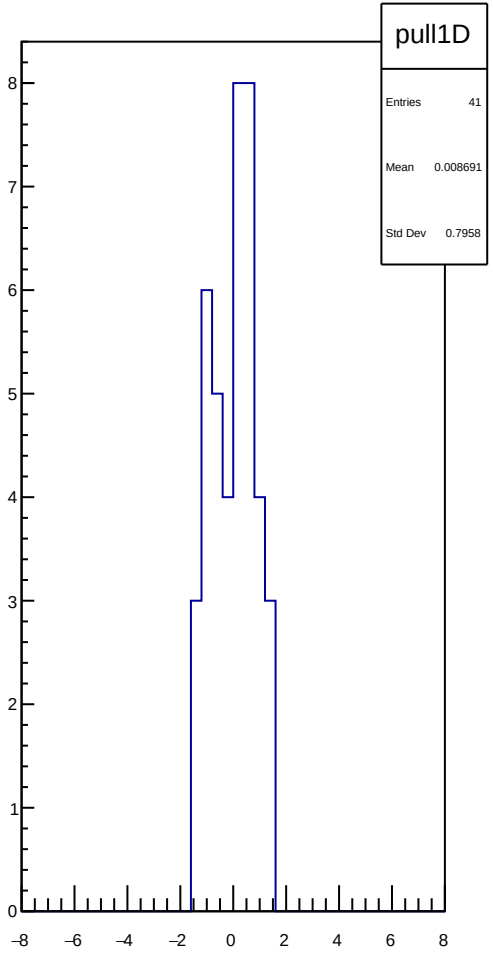

pull1D
Entries 41
Mean −0.005572
Std Dev 0.8131

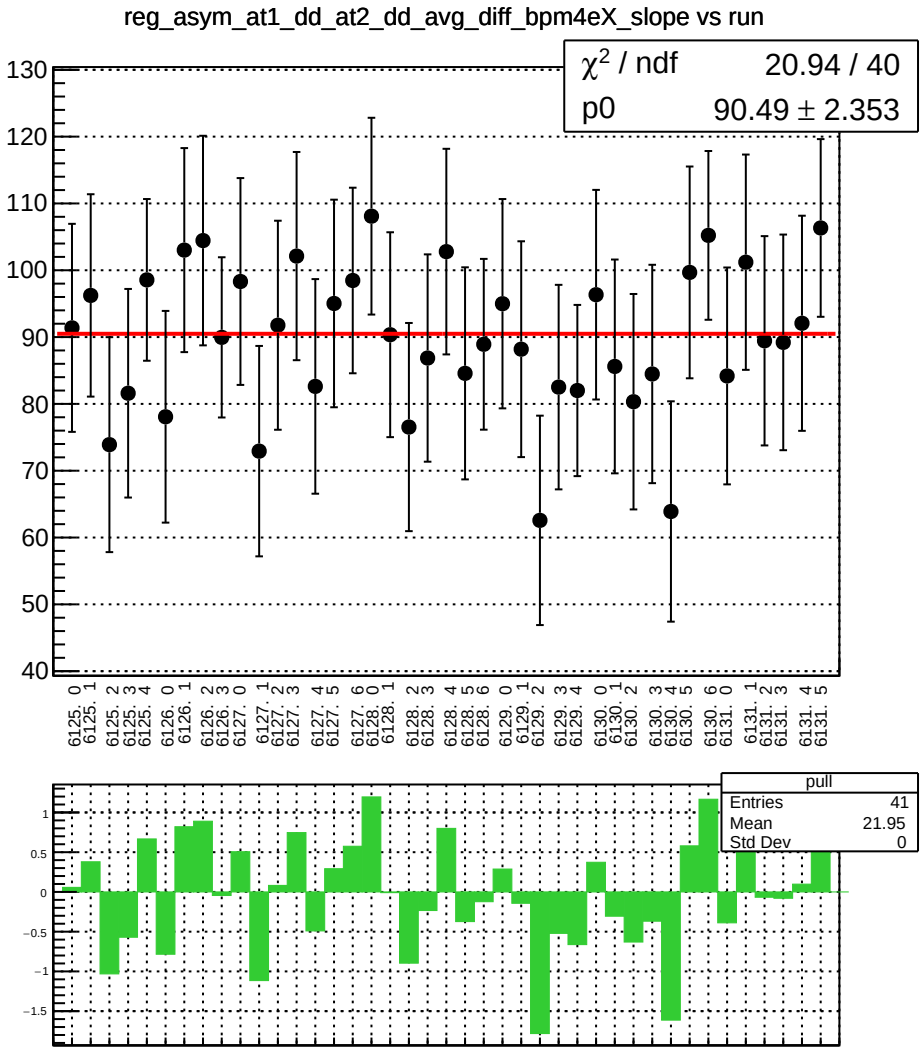

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 27.07 / 40
p0 18.03 ± 0.1571
pull
Entries 41
Mean −221
Std Dev 0
pull1D
Entries 41
Mean −0.0042
Std Dev 0.8125

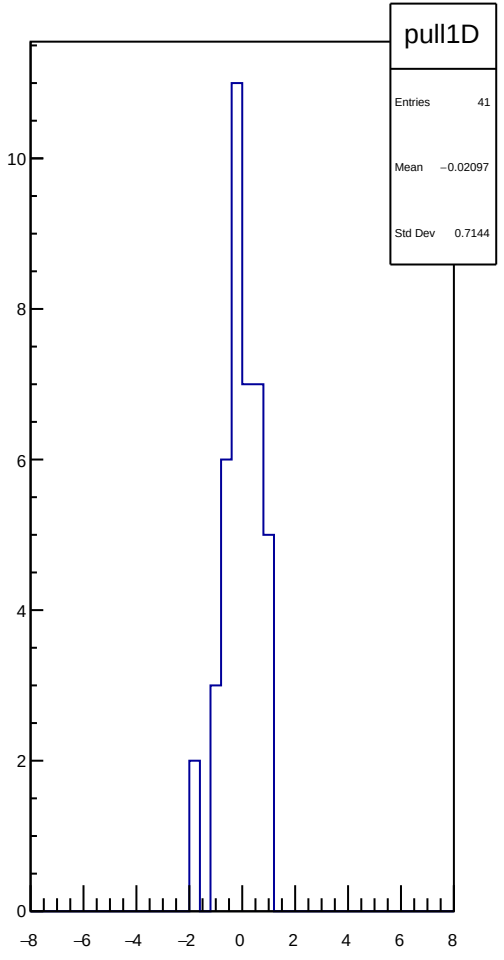

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 21.6 / 40
p0 −18.56 ± 1.931
pull
Entries 41
Mean 10.62
Std Dev 0

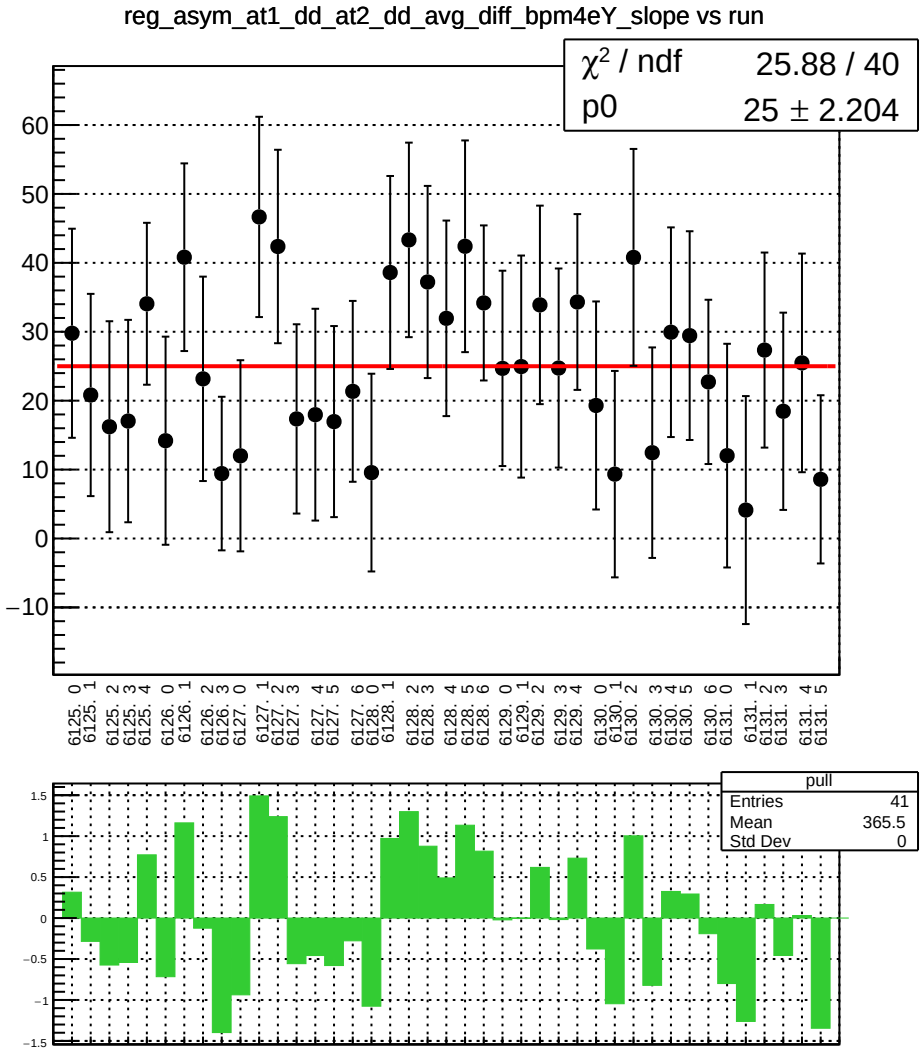

pull1D
Entries 41
Mean 0.02127
Std Dev 0.7255

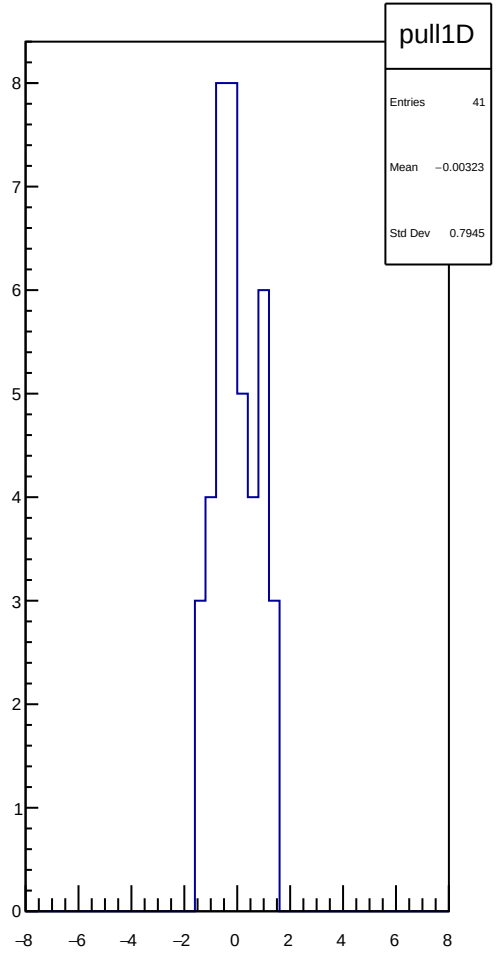

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.97 / 40
p0 −11.45 ± 2.083
pull
Entries 41
Mean 160.2
Std Dev 0

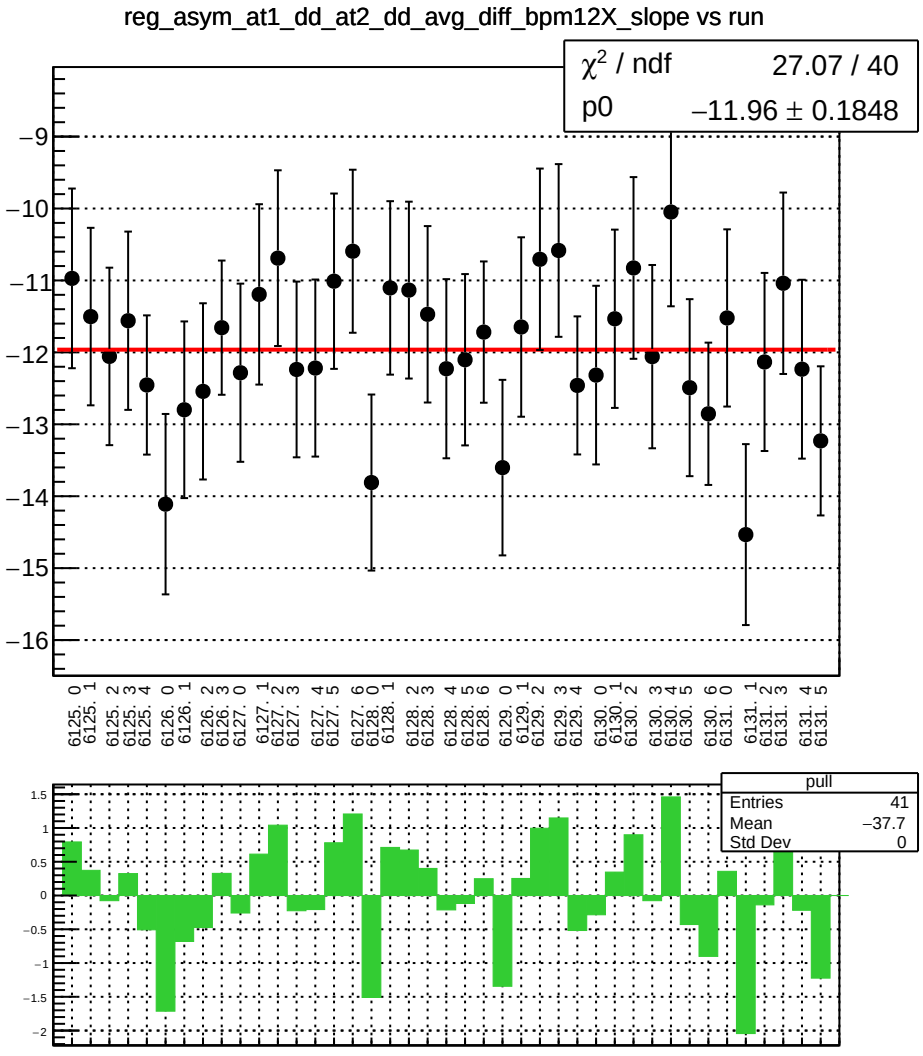

pull1D
Entries 41
Mean 0.008691
Std Dev 0.7958

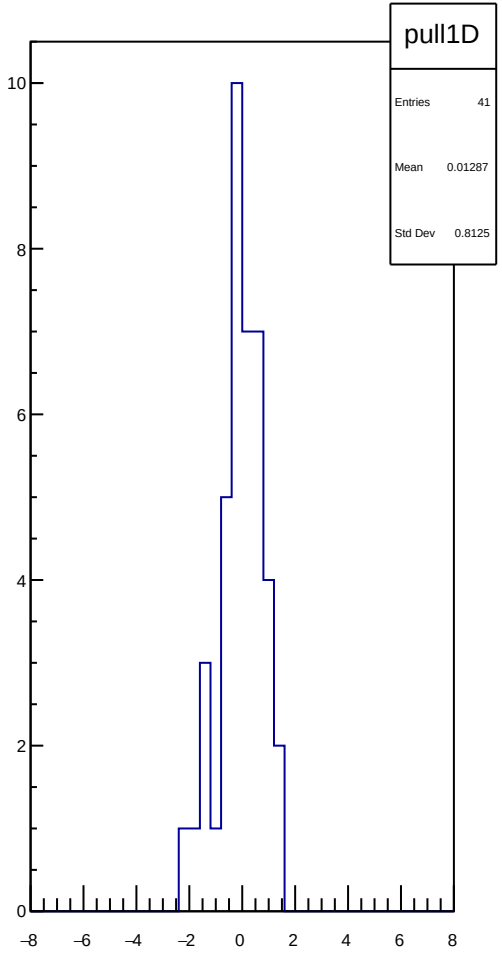

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.94 / 40
p0 90.49 ± 2.353
pull
Entries 41
Mean 21.95
Std Dev 0

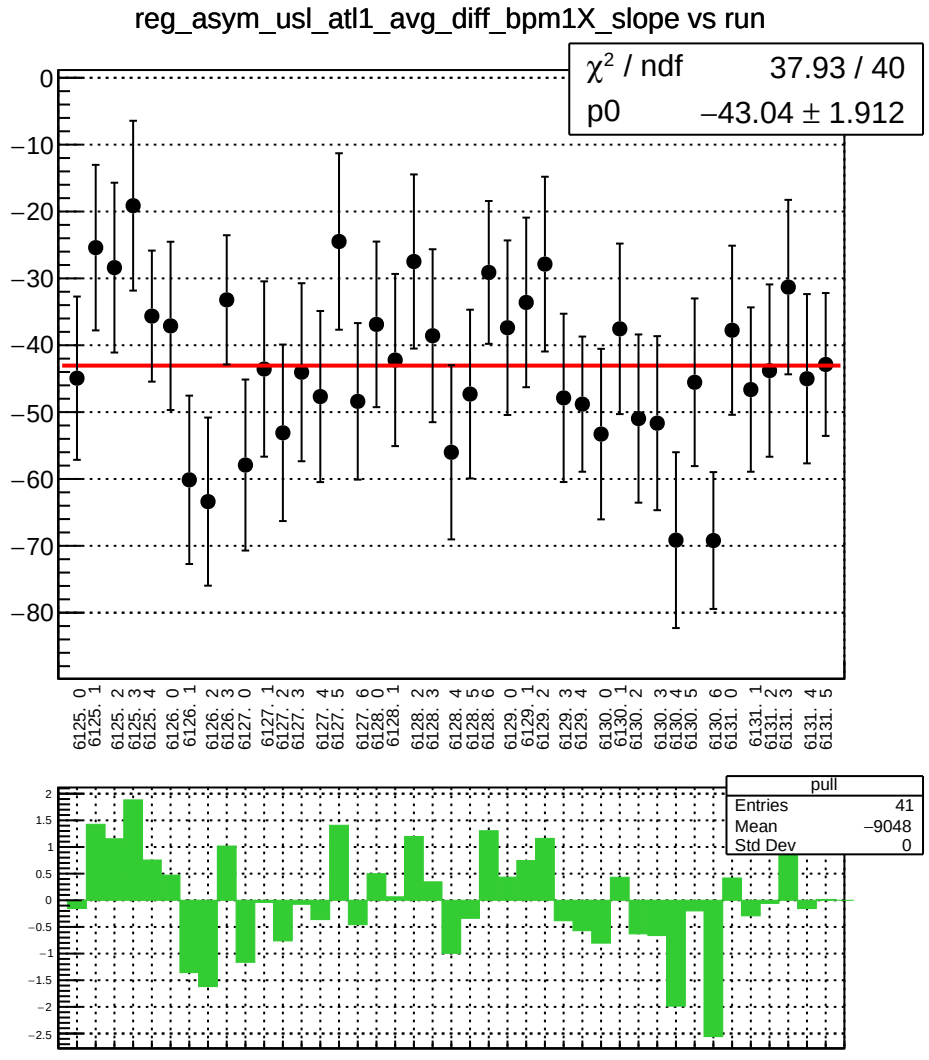

pull1D
Entries 41
Mean −0.02097
Std Dev 0.7144

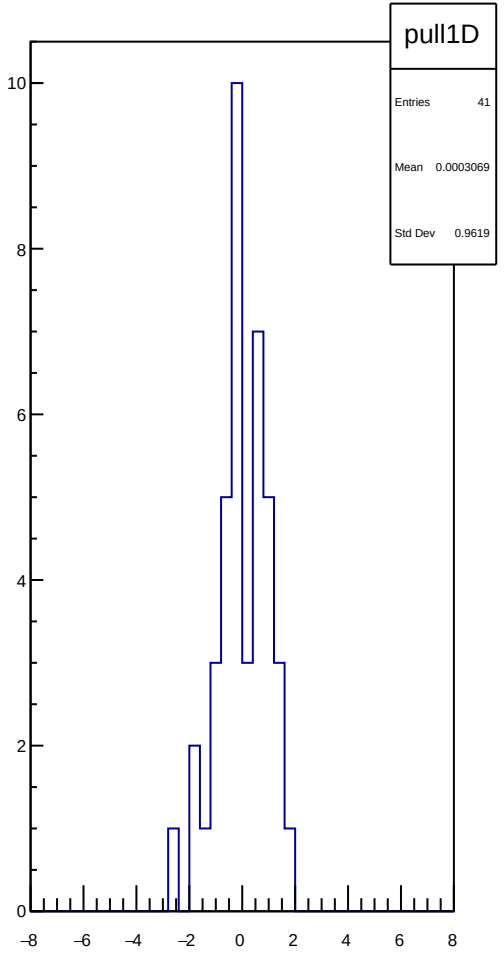

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.88 / 40
p0 25 ± 2.204
pull
Entries 41
Mean 365.5
Std Dev 0

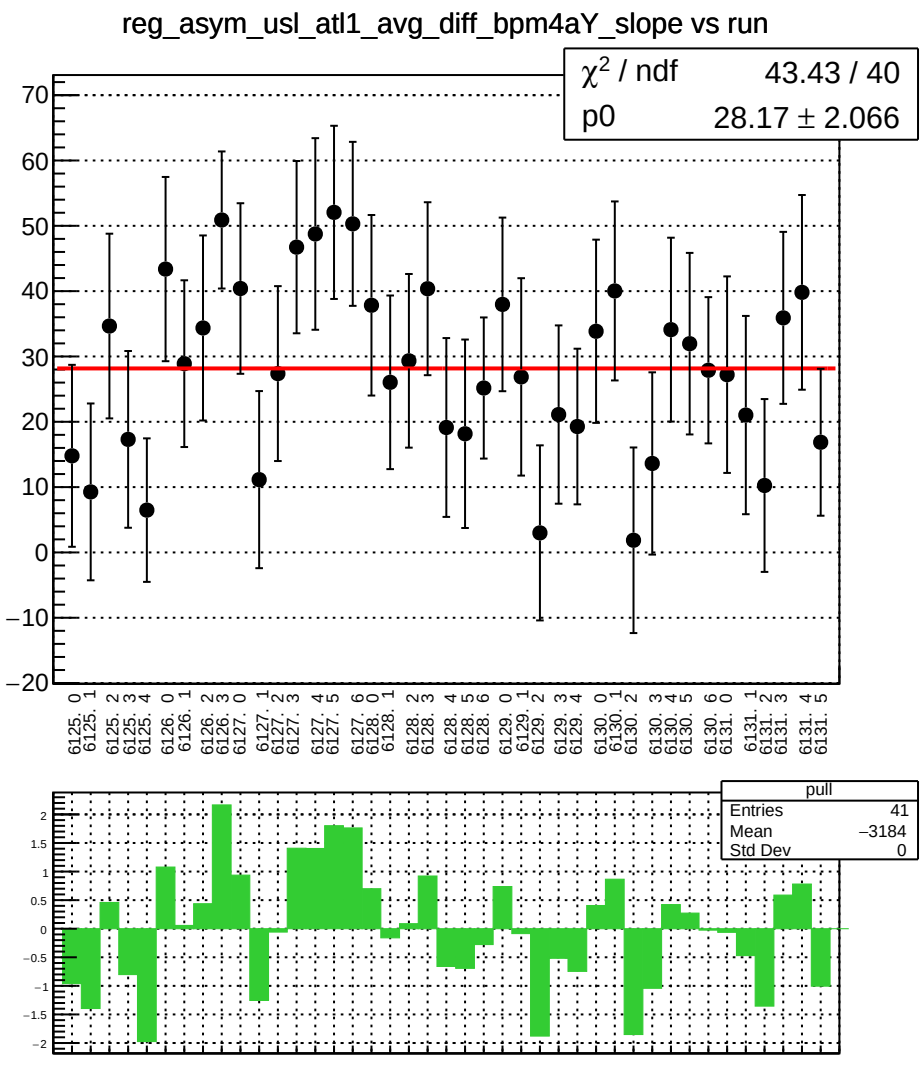

pull1D
Entries 41
Mean −0.00323
Std Dev 0.7945

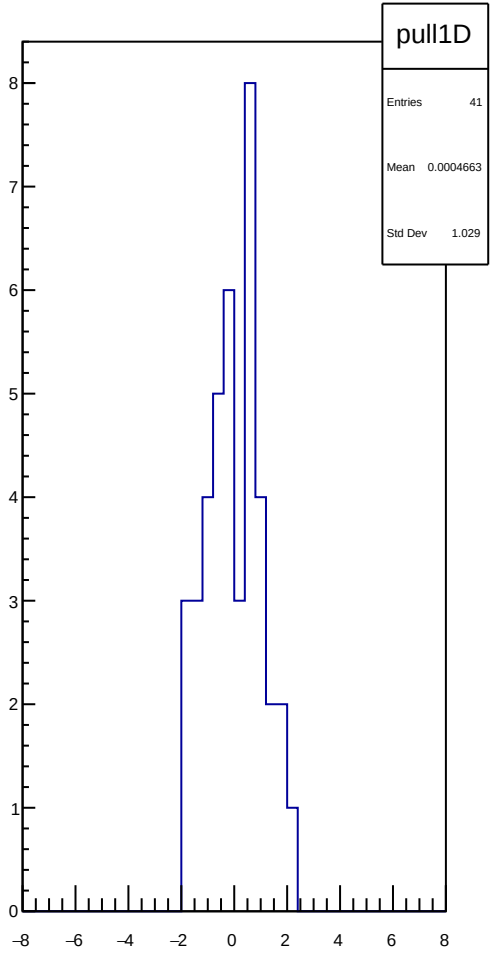

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 27.07 / 40
p0 −11.96 ± 0.1848
pull
Entries 41
Mean −37.7
Std Dev 0

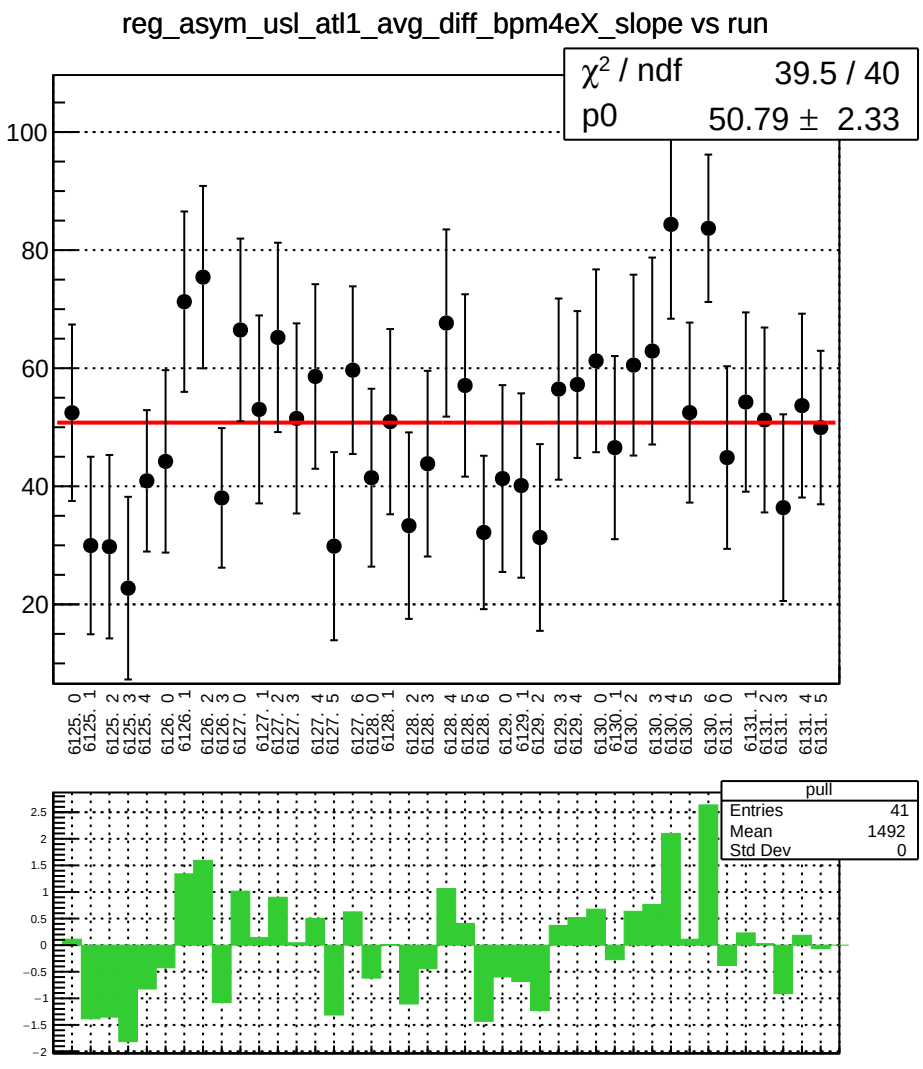

pull1D
Entries 41
Mean 0.01287
Std Dev 0.8125

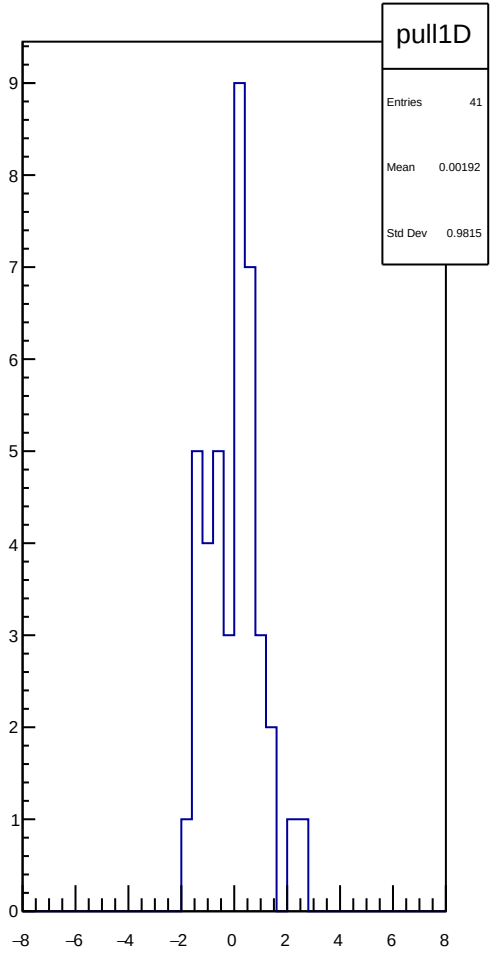

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 37.93 / 40
p0 −43.04 ± 1.912
pull
Entries 41
Mean −9048
Std Dev 0

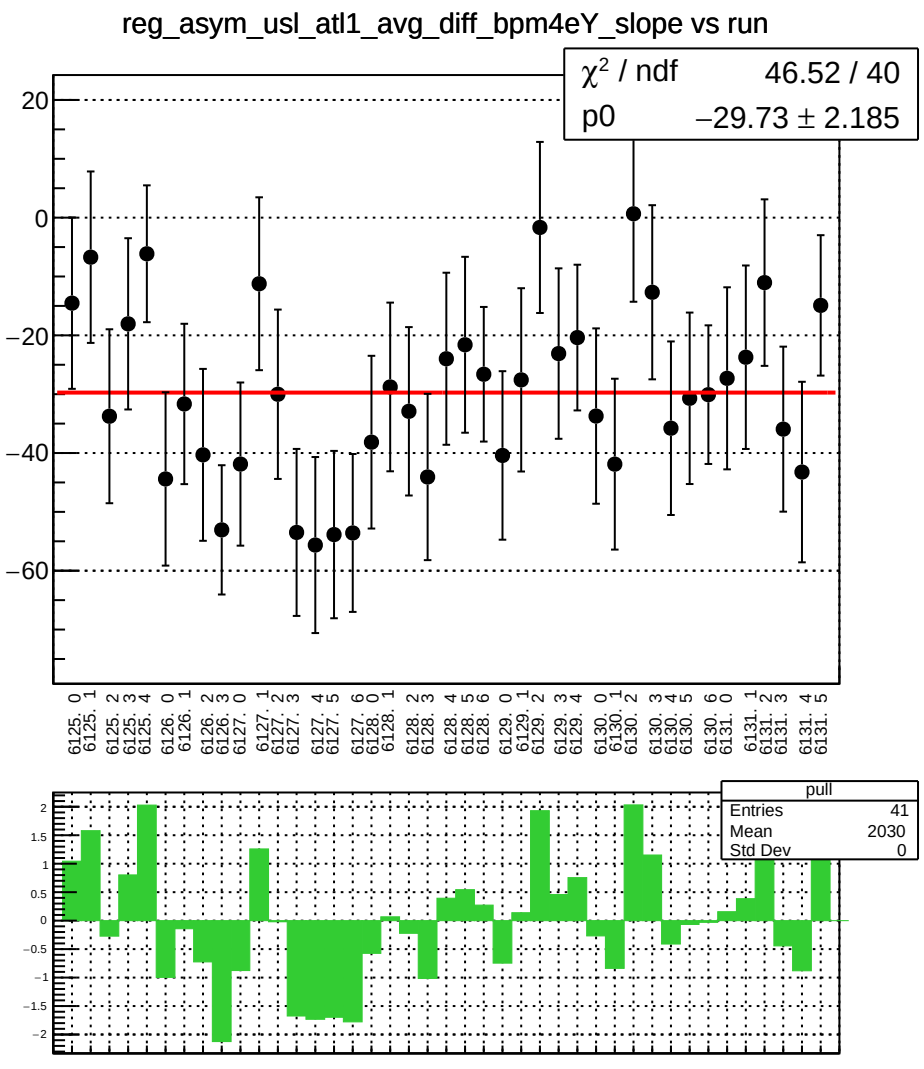

pull1D
Entries 41
Mean 0.0003069
Std Dev 0.9619

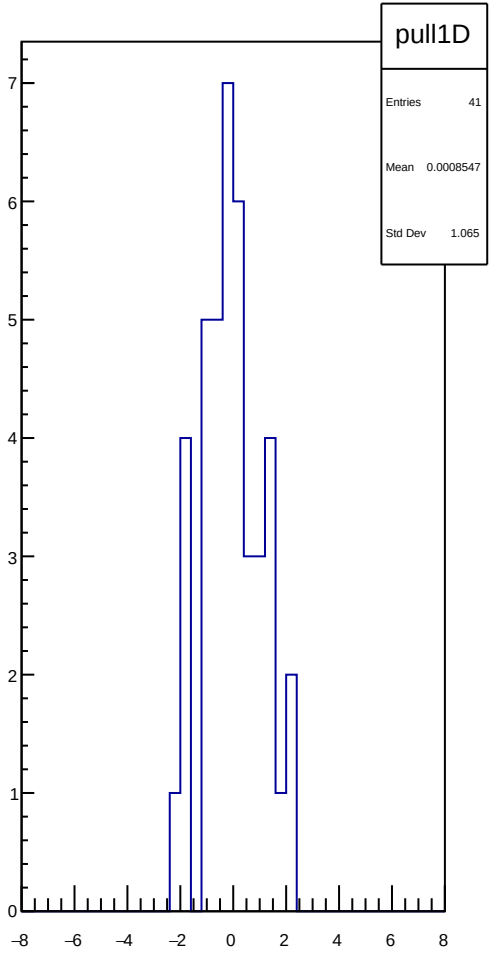

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.43 / 40
p0 28.17 ± 2.066
pull
Entries 41
Mean −3184
Std Dev 0

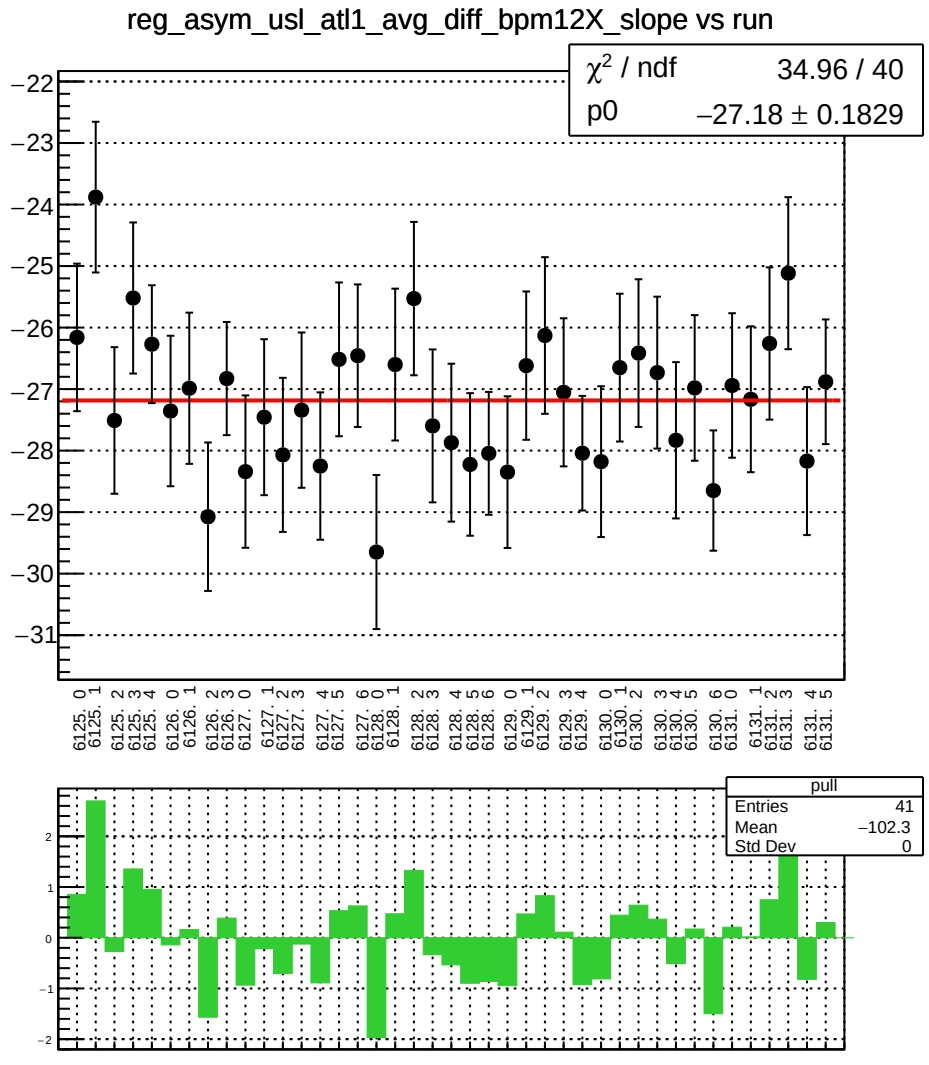

pull1D
Entries 41
Mean 0.0004663
Std Dev 1.029

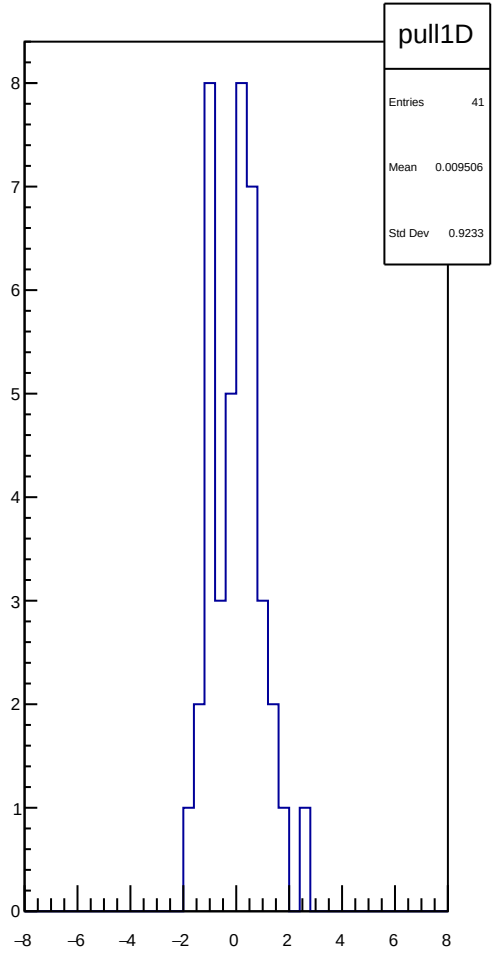

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 39.5 / 40
p0 50.79 ± 2.33
pull
Entries 41
Mean 1492
Std Dev 0

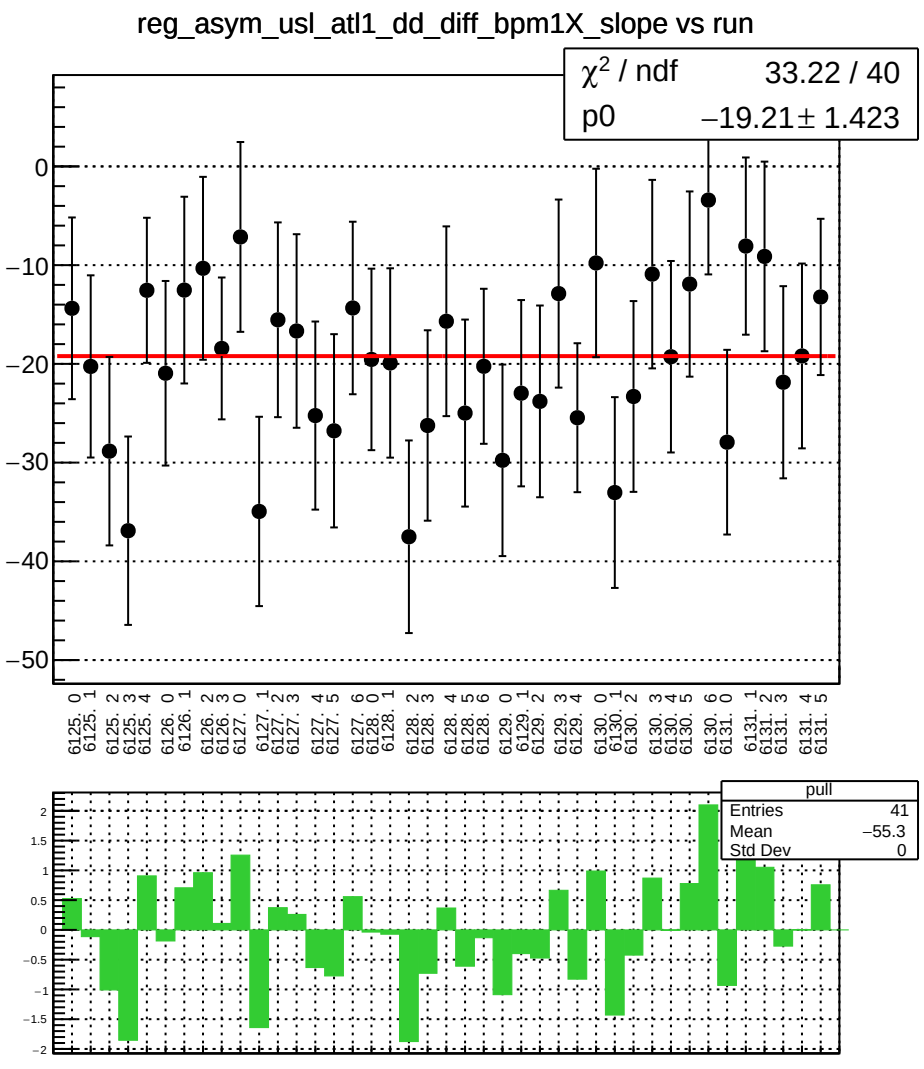

pull1D
Entries 41
Mean 0.00192
Std Dev 0.9815

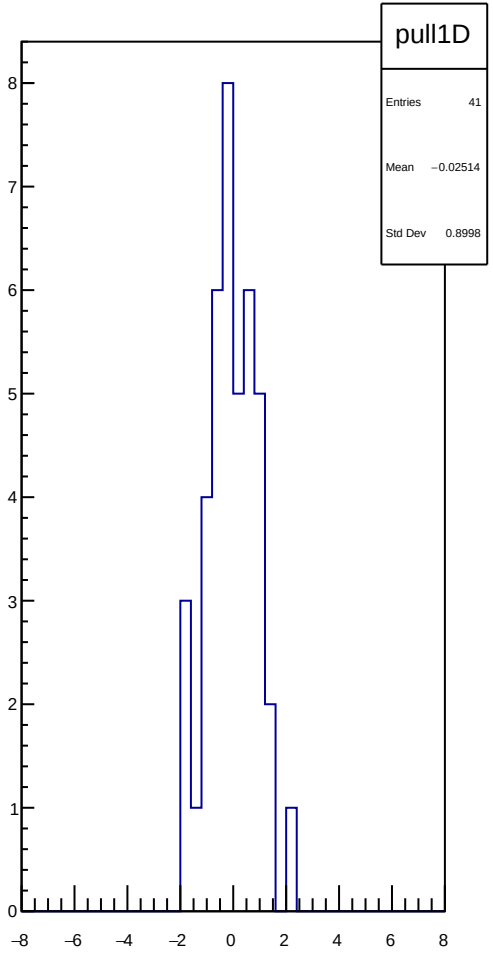

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 46.52 / 40
p0 −29.73 ± 2.185
20
0
−20
−40
−60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 2030
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

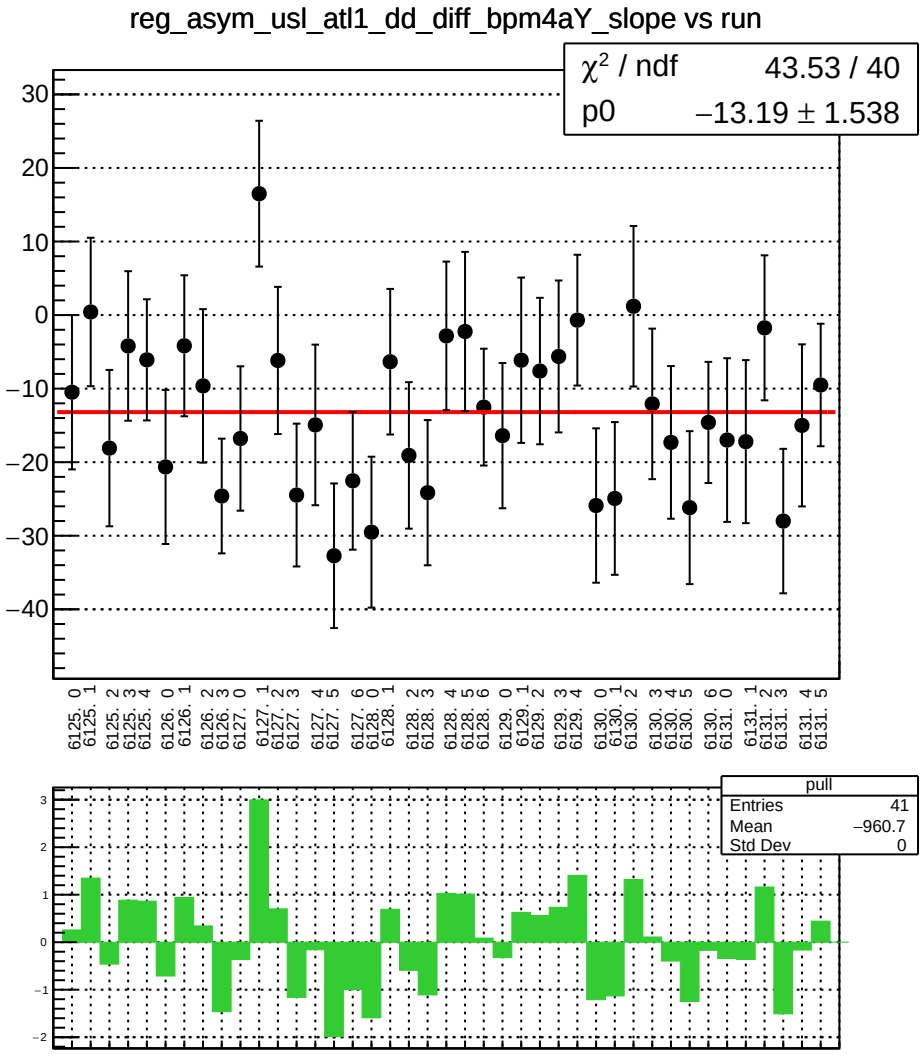

pull1D
Entries 41
Mean 0.0008547
Std Dev 1.065
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

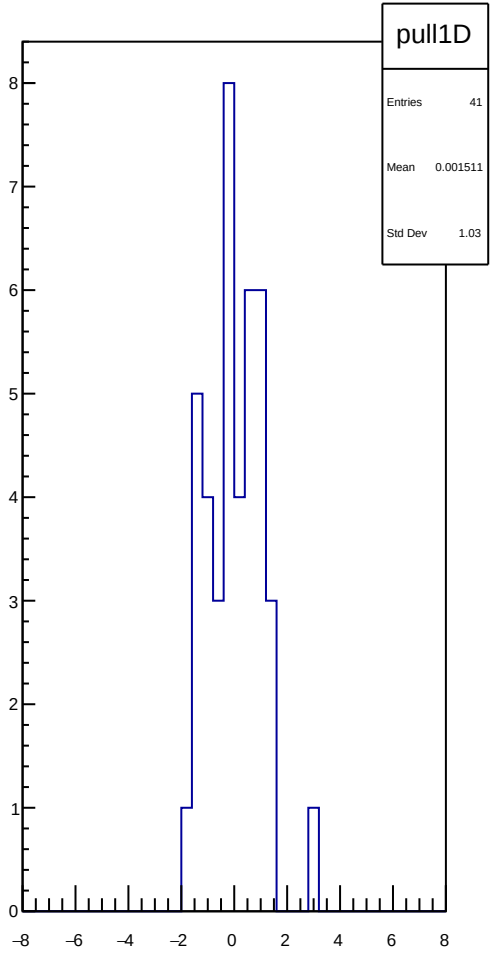

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 34.96 / 40
p0 −27.18 ± 0.1829
pull
Entries 41
Mean −102.3
Std Dev 0

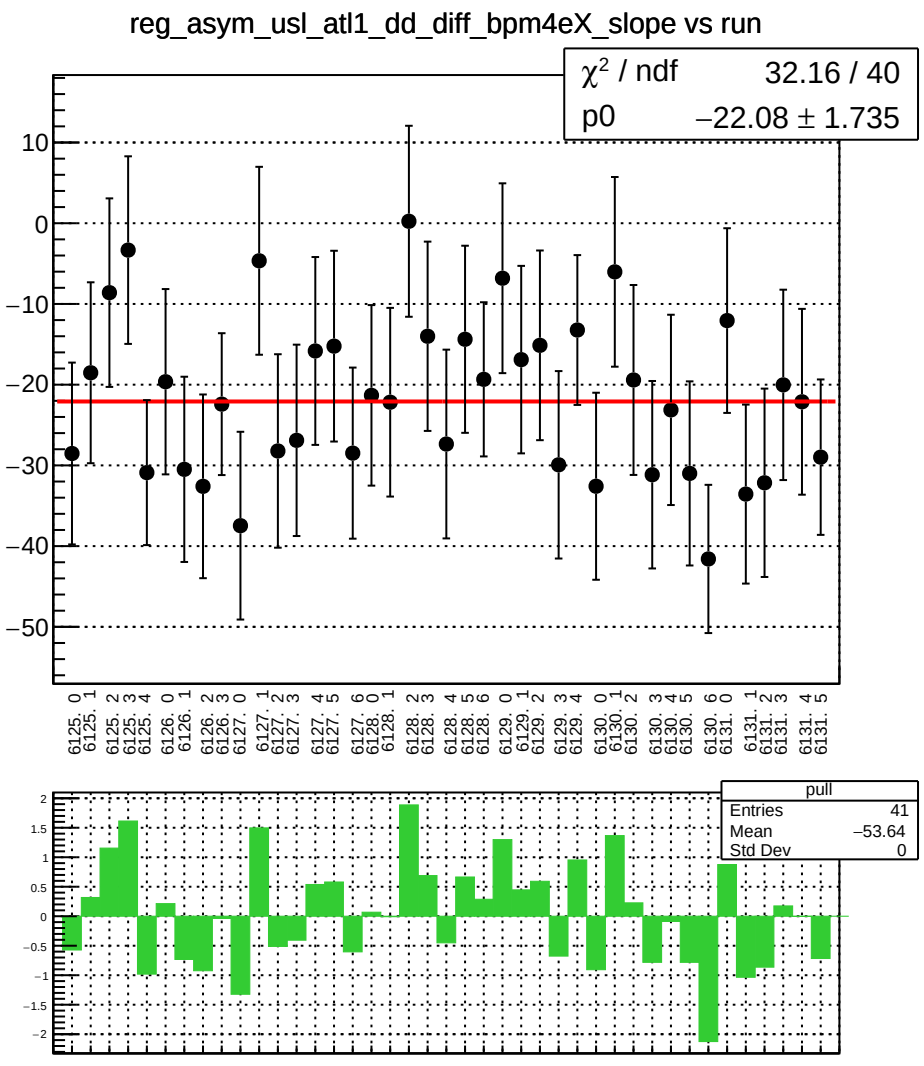

pull1D
Entries 41
Mean 0.009506
Std Dev 0.9233

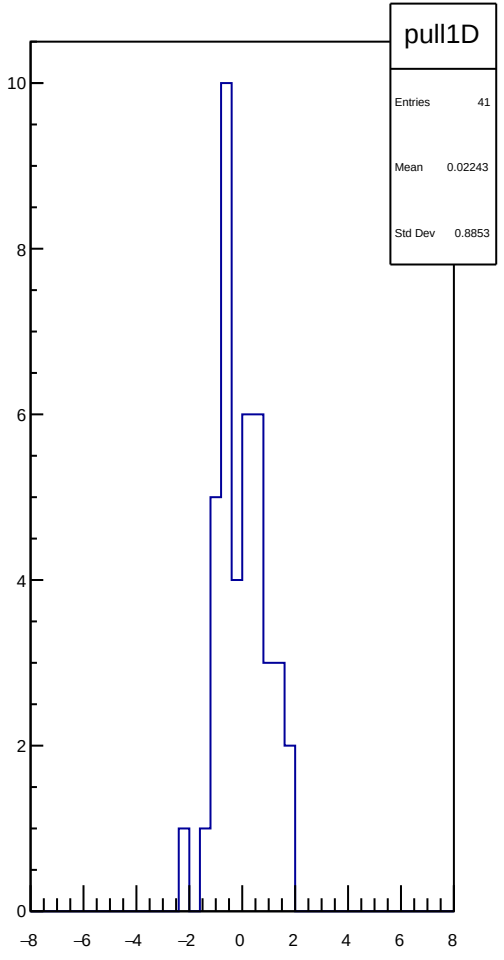

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 33.22 / 40
p0 −19.21± 1.423
0
−10
−20
−30
−40
−50
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −55.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

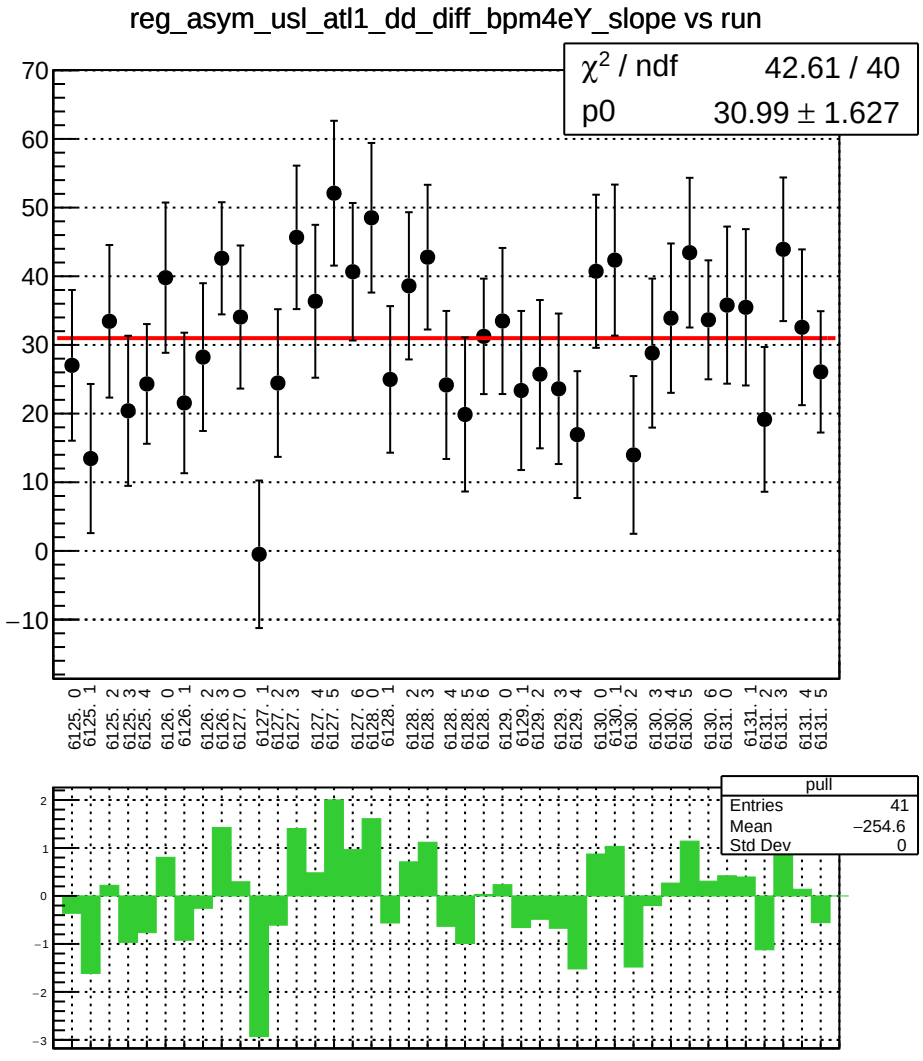

pull1D
Entries 41
Mean −0.02514
Std Dev 0.8998
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

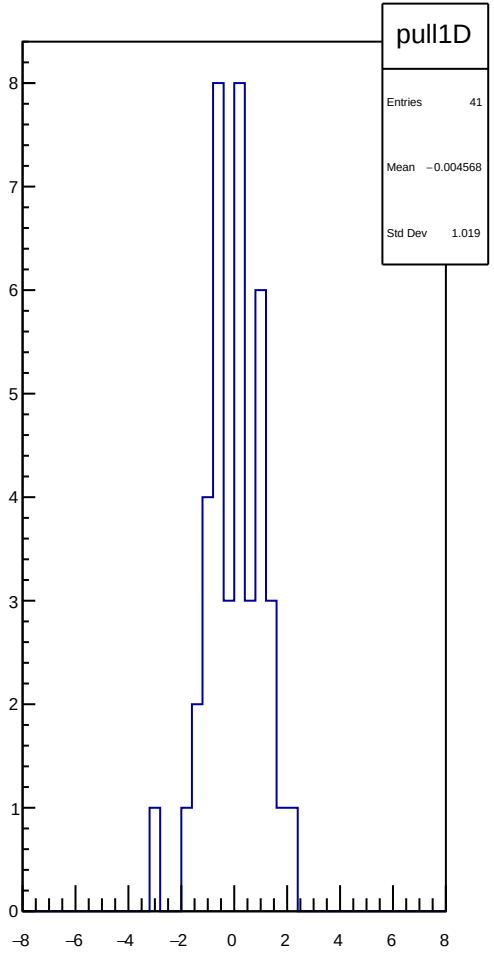

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 43.53 / 40
p0 −13.19 ± 1.538
pull
Entries 41
Mean −960.7
Std Dev 0

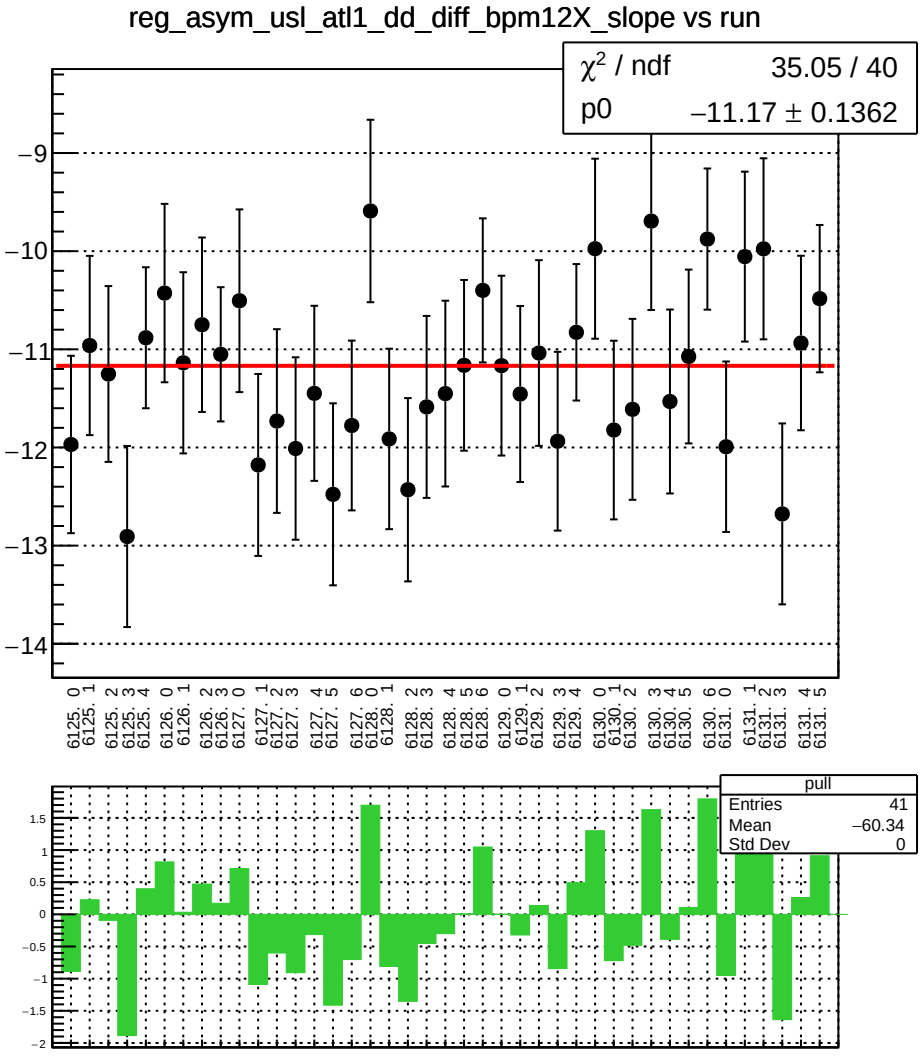

pull1D
Entries 41
Mean 0.001511
Std Dev 1.03

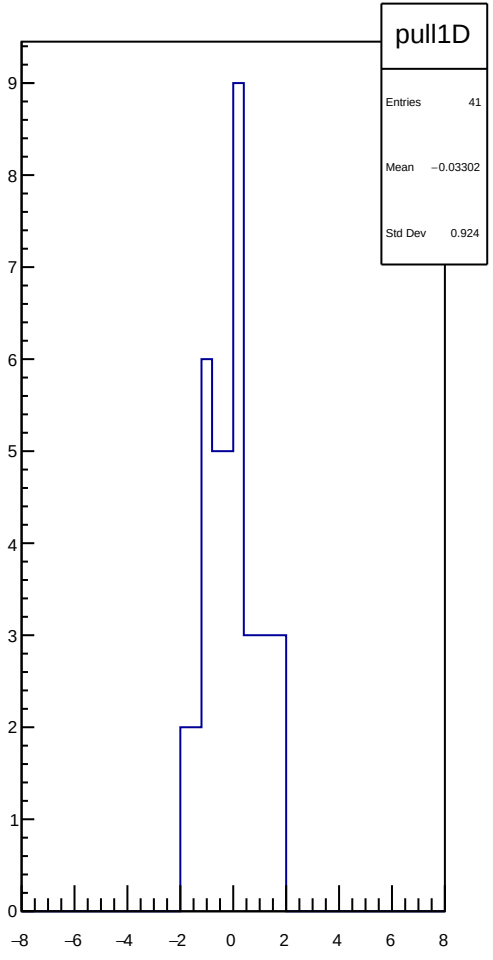

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.16 / 40
p0 −22.08 ± 1.735
pull
Entries 41
Mean −53.64
Std Dev 0

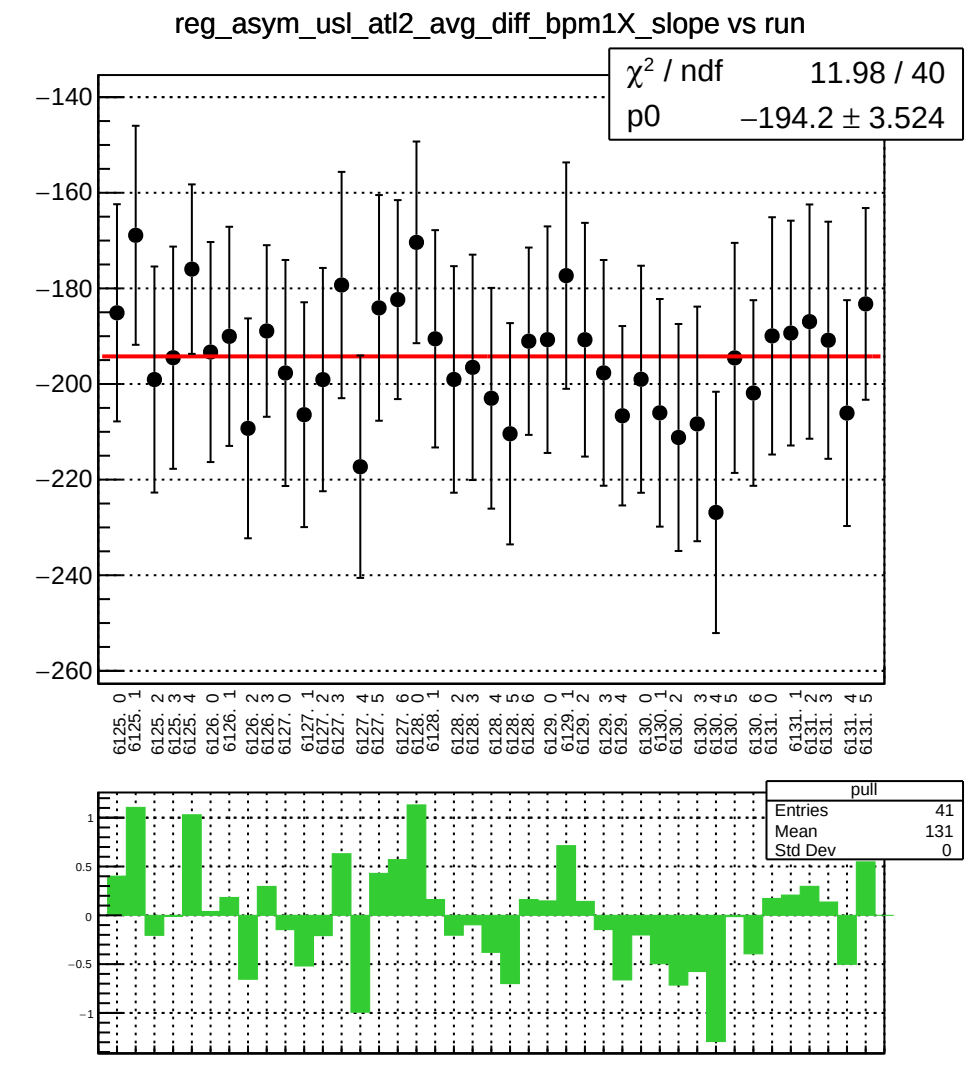

pull1D
Entries 41
Mean 0.02243
Std Dev 0.8853

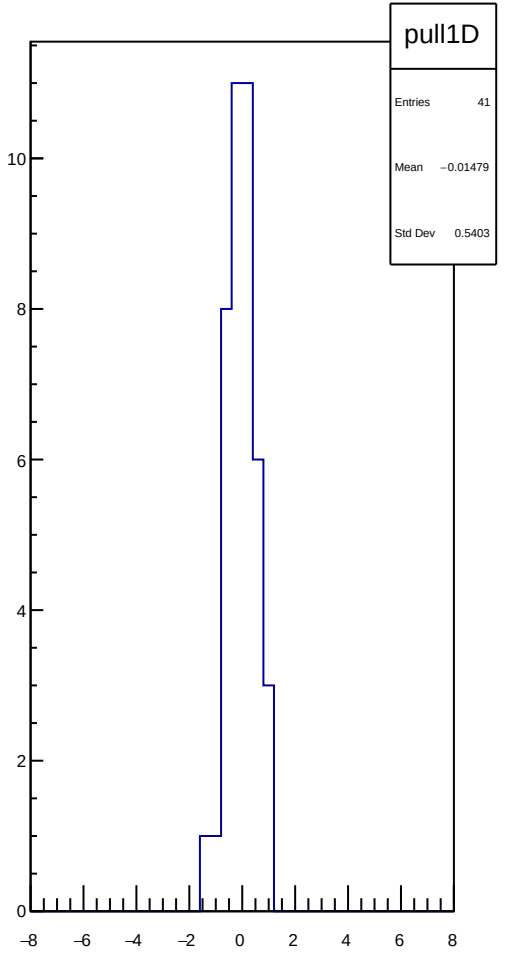

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 42.61 / 40
p0 30.99 ± 1.627
pull
Entries 41
Mean −254.6
Std Dev 0

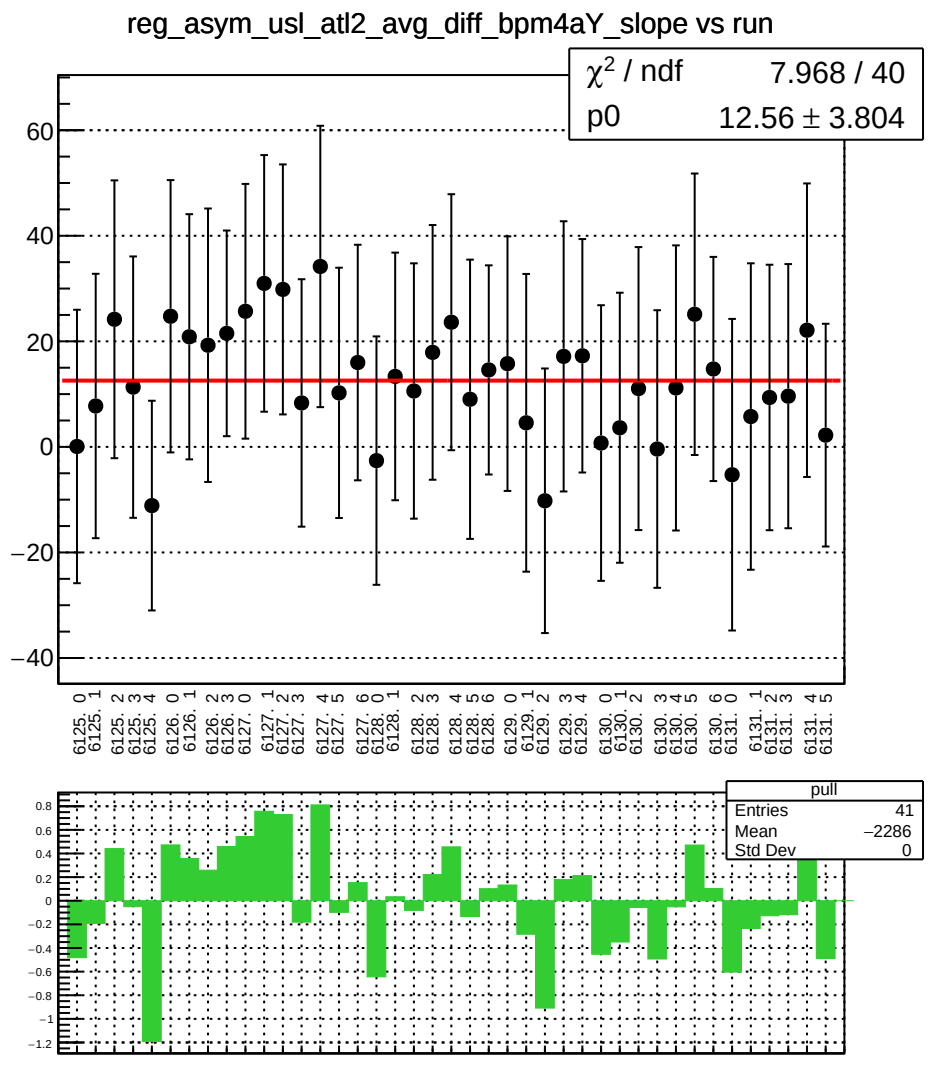

pull1D
Entries 41
Mean −0.004568
Std Dev 1.019

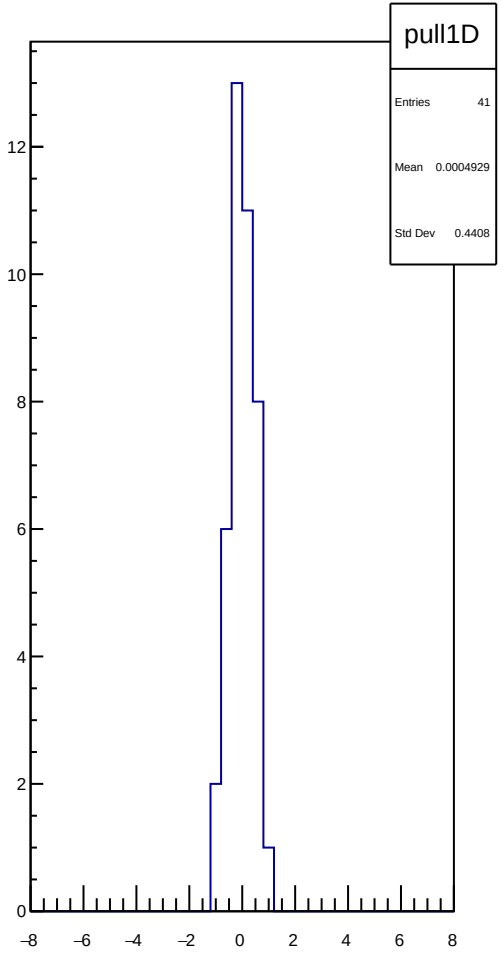

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 35.05 / 40
p0 −11.17 ± 0.1362
pull
Entries 41
Mean −60.34
Std Dev 0

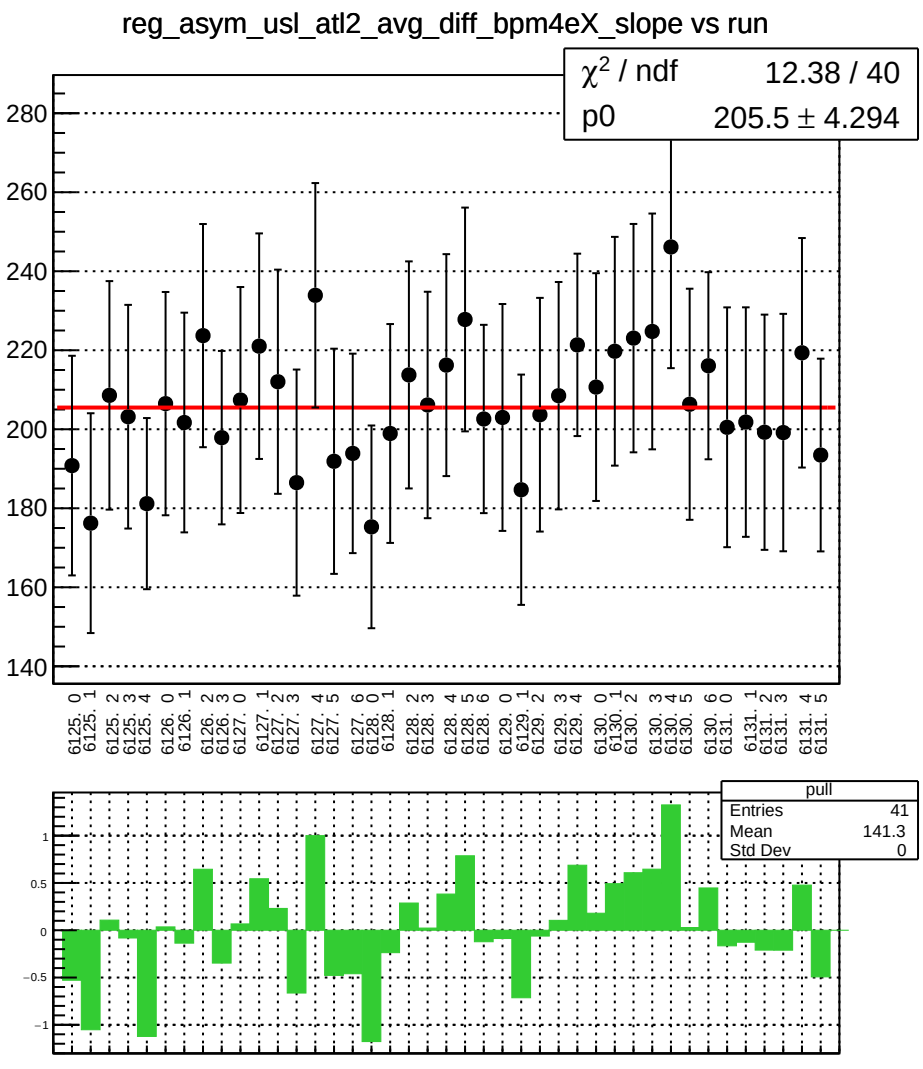

pull1D
Entries 41
Mean −0.03302
Std Dev 0.924

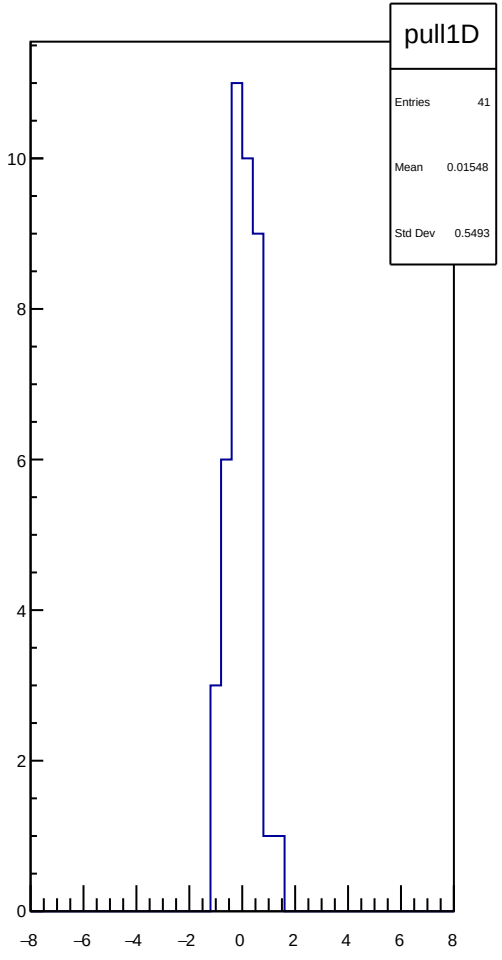

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 11.98 / 40
p0 −194.2 ± 3.524
−140
−160
−180
−200
−220
−240
−260
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 131
Std Dev 0
1
0.5
0
−0.5
−1

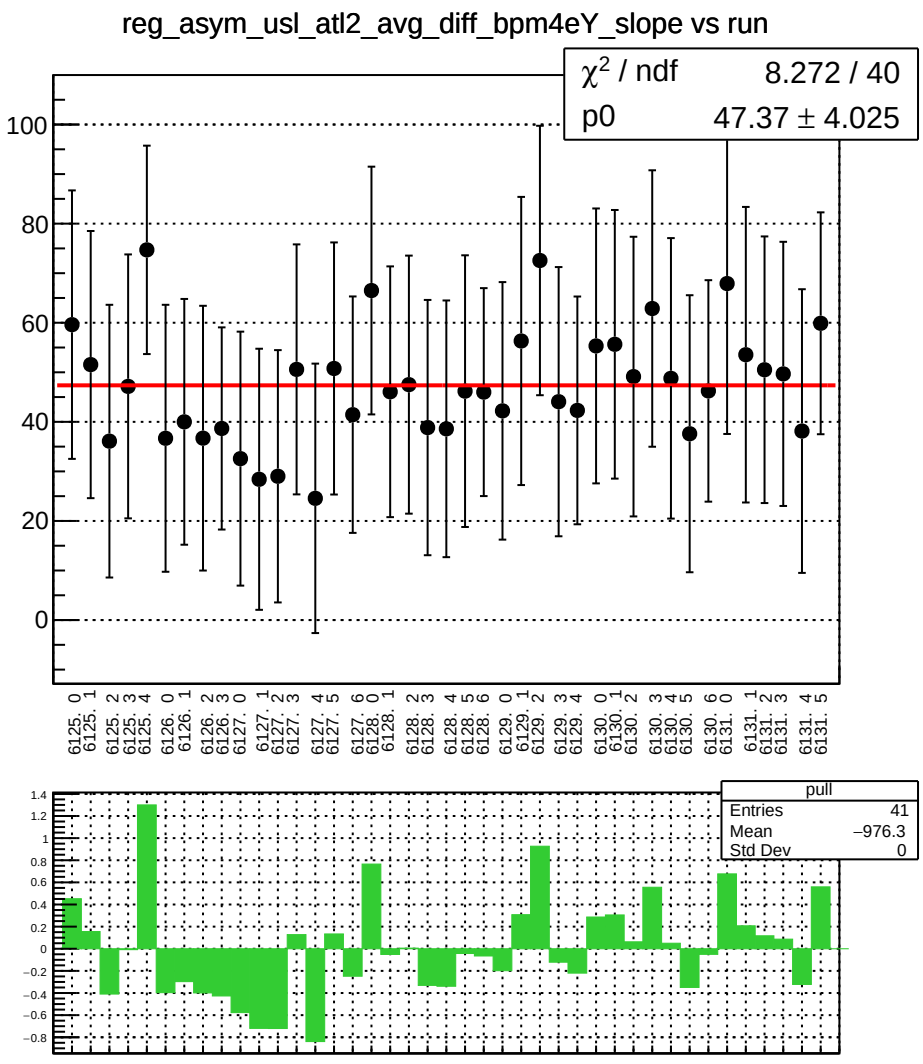

pull1D
Entries 41
Mean −0.01479
Std Dev 0.5403
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

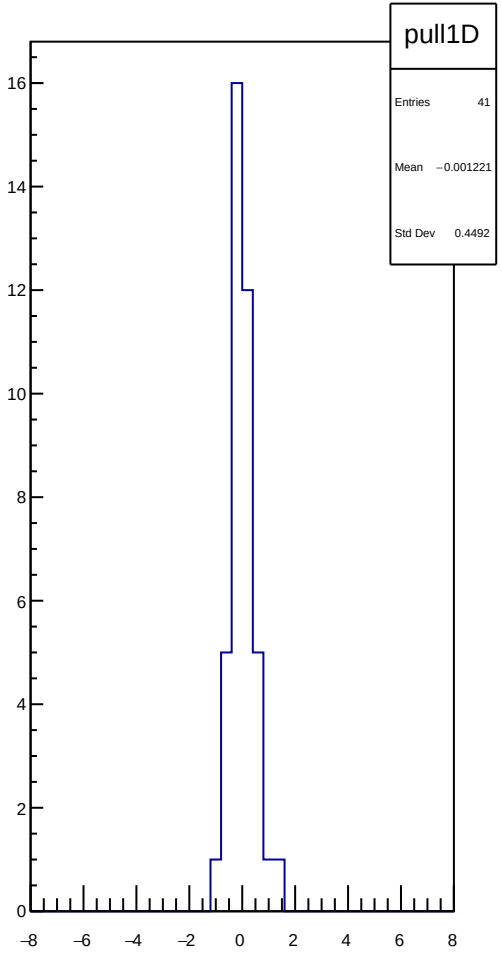

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.968 / 40
p0 12.56 ± 3.804
pull
Entries 41
Mean −2286
Std Dev 0

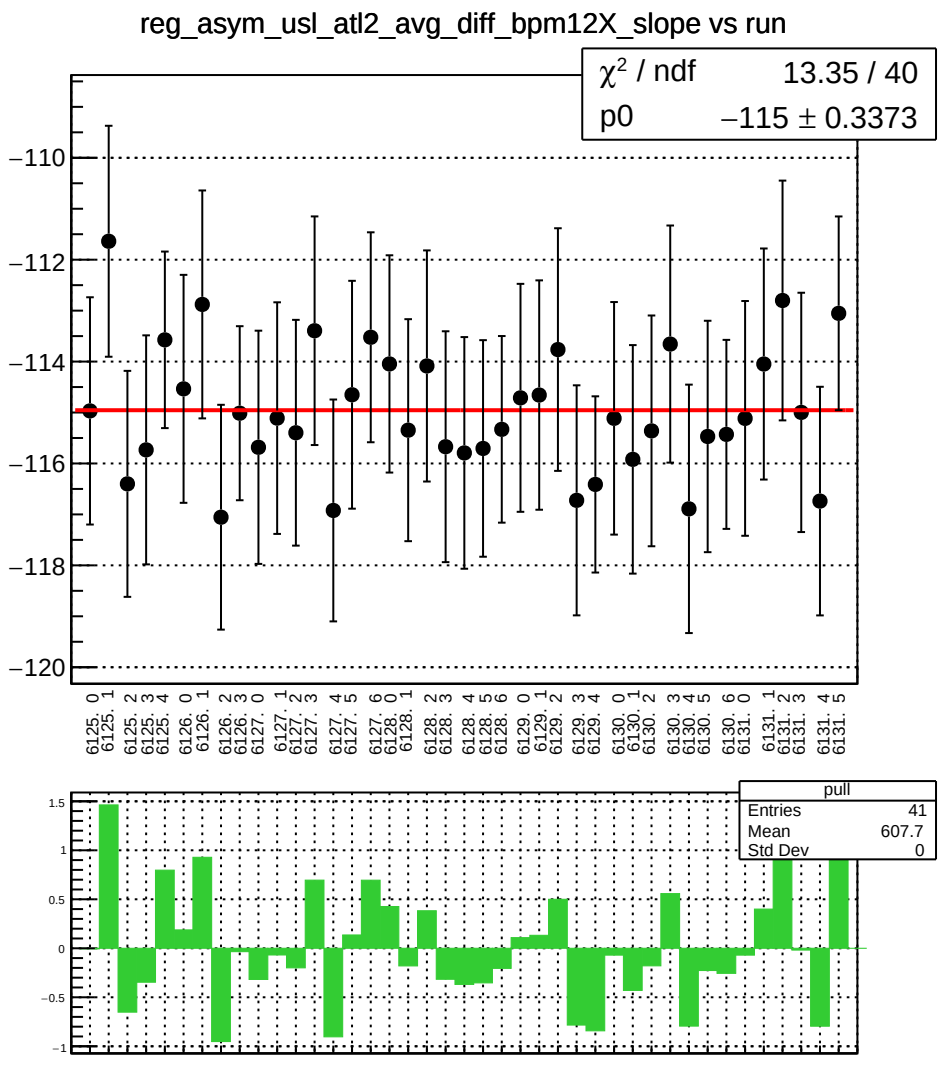

pull1D
Entries 41
Mean 0.0004929
Std Dev 0.4408

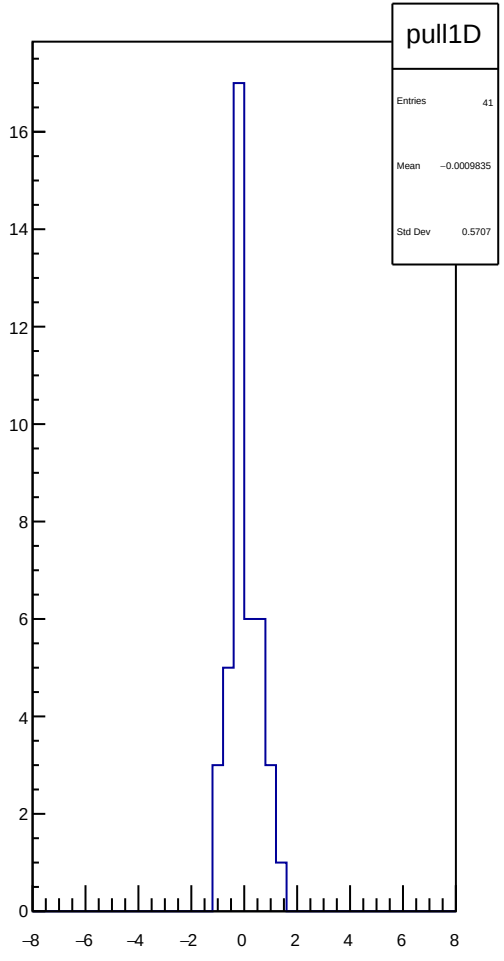

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.38 / 40
p0 205.5 ± 4.294
pull
Entries 41
Mean 141.3
Std Dev 0

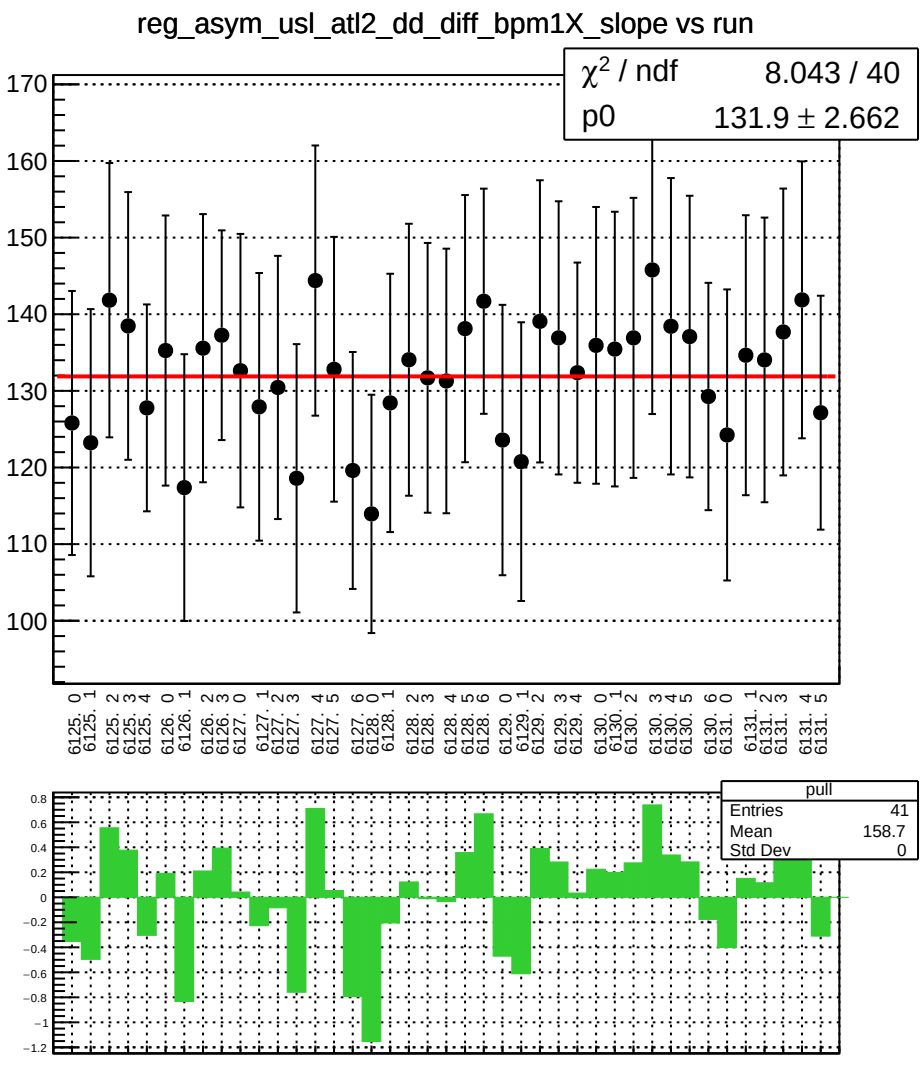

pull1D
Entries 41
Mean 0.01548
Std Dev 0.5493

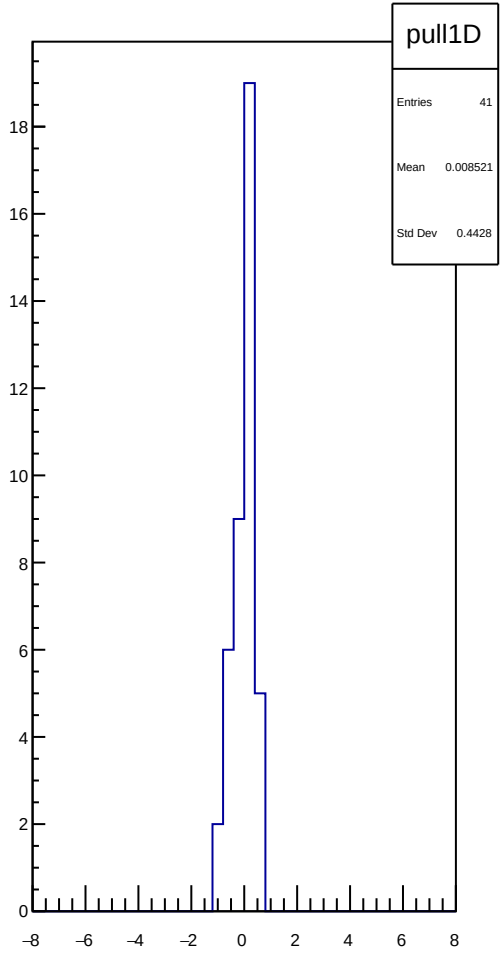

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.272 / 40
p0 47.37 ± 4.025
pull
Entries 41
Mean −976.3
Std Dev 0

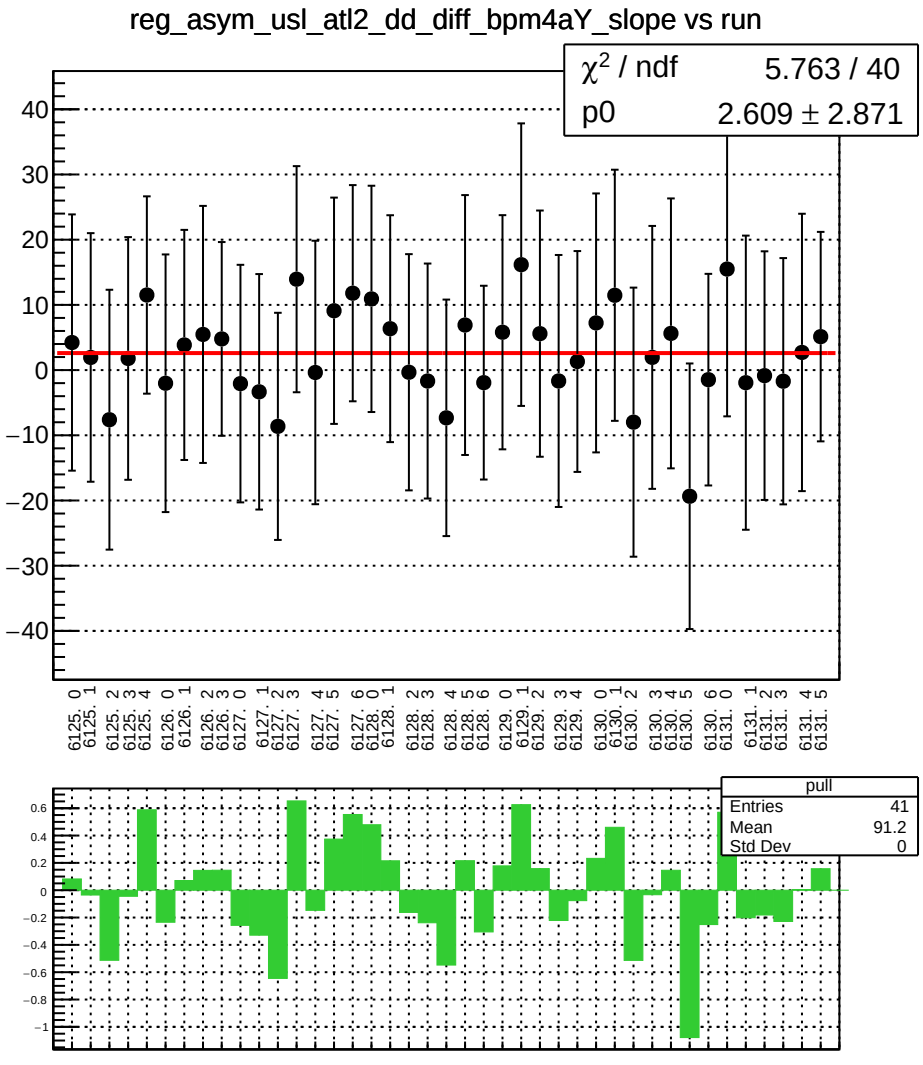

pull1D
Entries 41
Mean −0.001221
Std Dev 0.4492

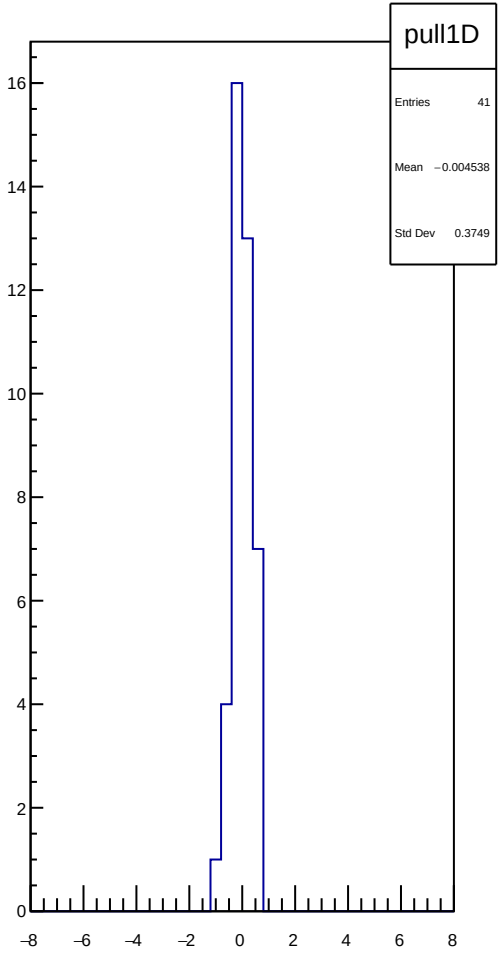

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 13.35 / 40
p0 −115 ± 0.3373
−110
−112
−114
−116
−118
−120
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 607.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1

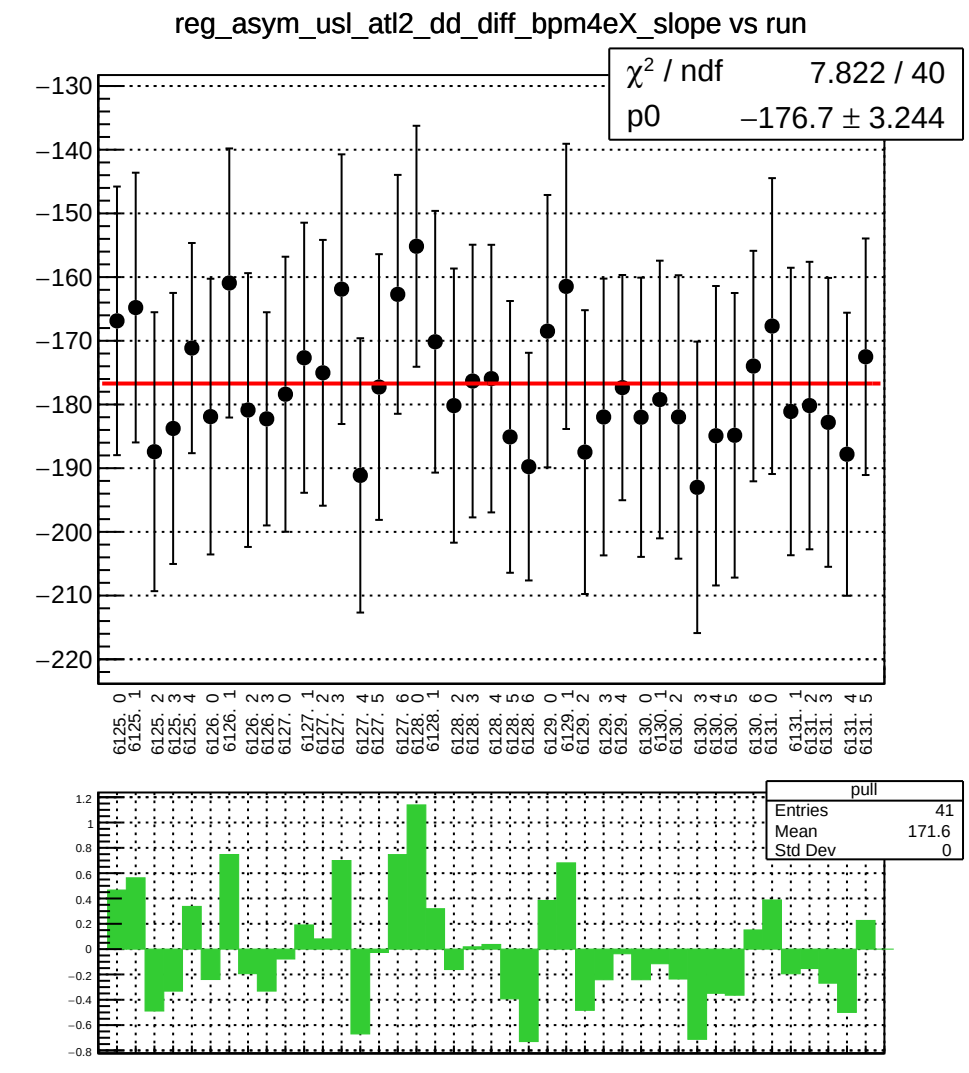

pull1D
Entries 41
Mean −0.0009835
Std Dev 0.5707
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

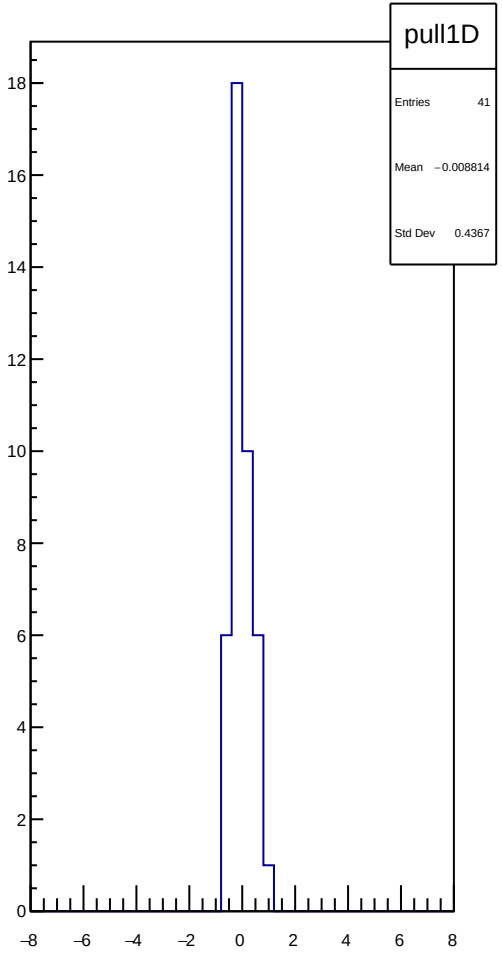

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 8.043 / 40
p0 131.9 ± 2.662
pull
Entries 41
Mean 158.7
Std Dev 0

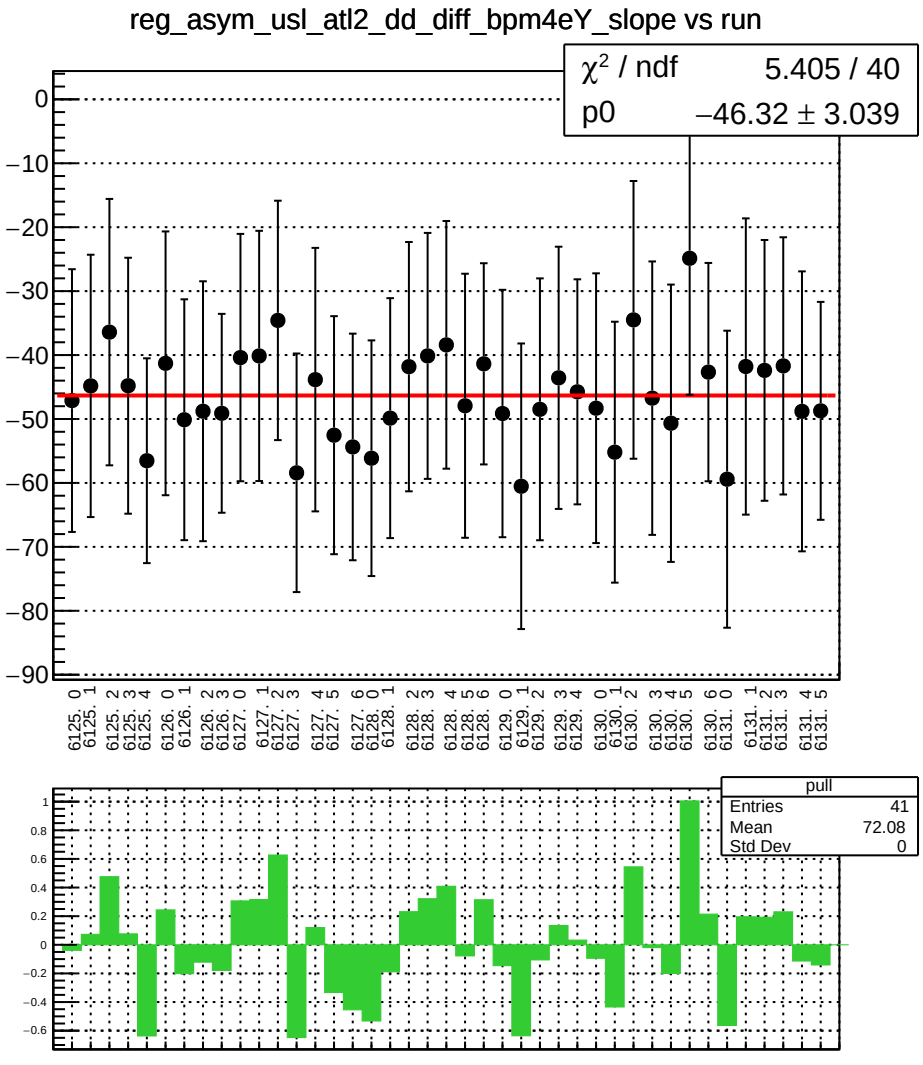

pull1D
Entries 41
Mean 0.008521
Std Dev 0.4428

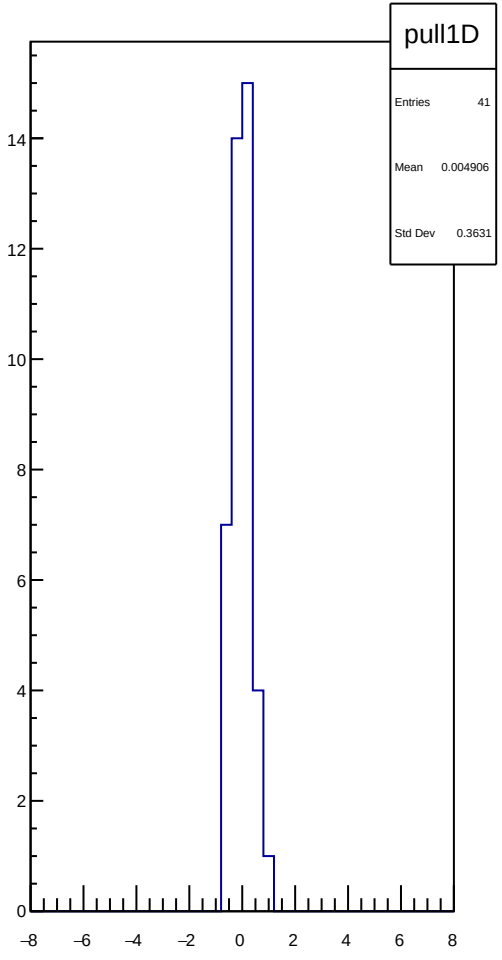

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.763 / 40
p0 2.609 ± 2.871
pull
Entries 41
Mean 91.2
Std Dev 0

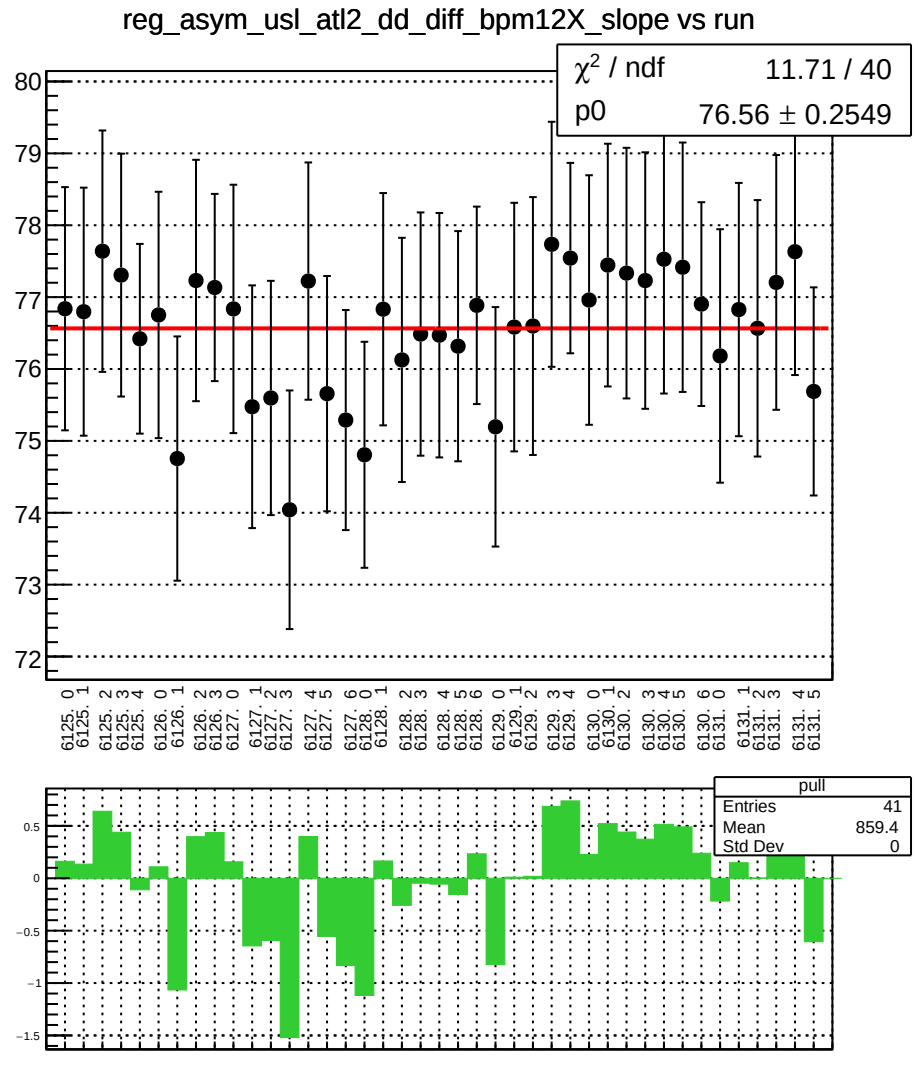

pull1D
Entries 41
Mean −0.004538
Std Dev 0.3749

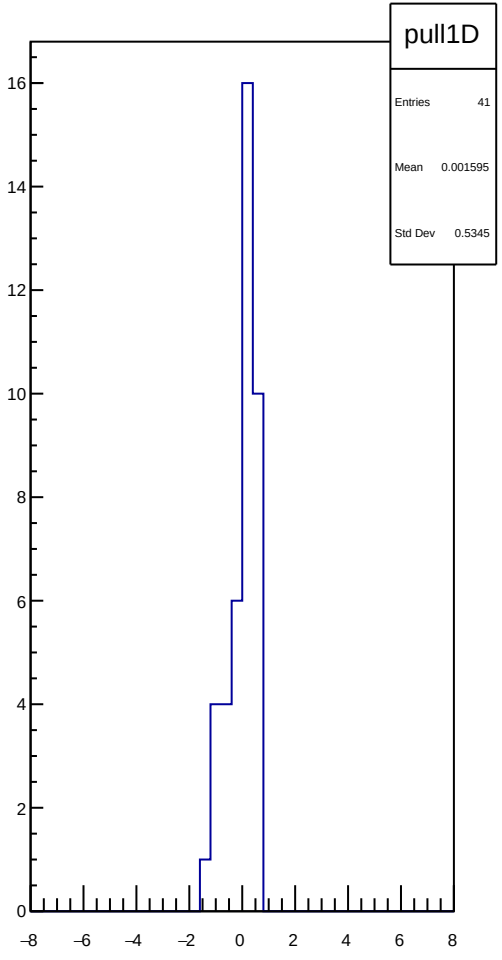

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.822 / 40
p0 −176.7 ± 3.244
pull
Entries 41
Mean 171.6
Std Dev 0

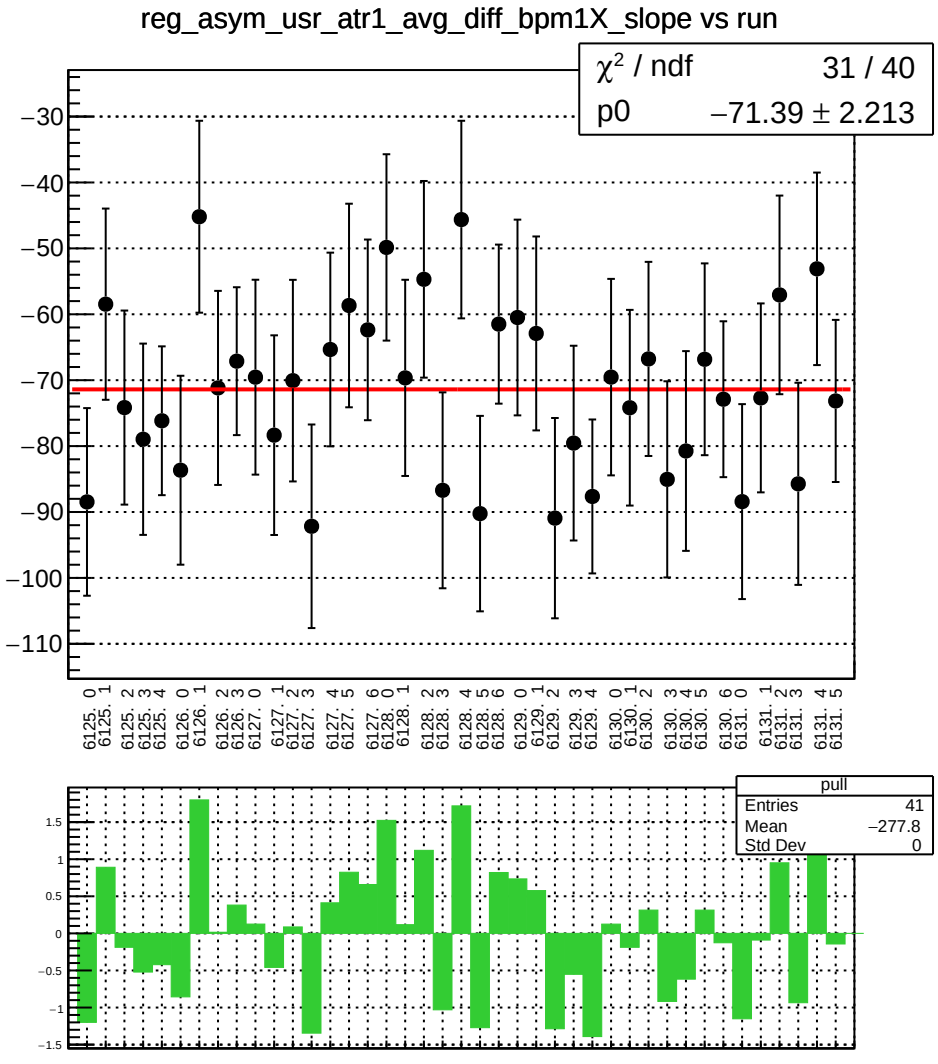

pull1D
Entries 41
Mean −0.008814
Std Dev 0.4367

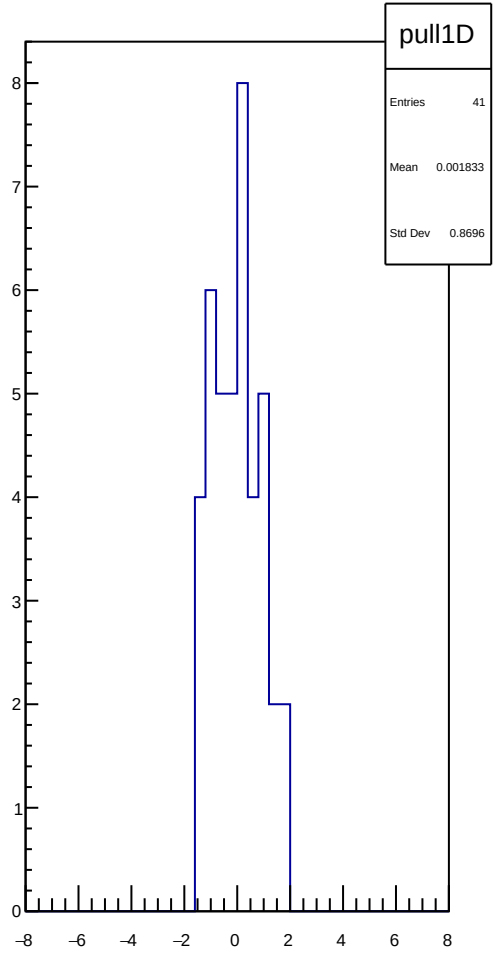

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.405 / 40
p0 −46.32 ± 3.039
pull
Entries 41
Mean 72.08
Std Dev 0

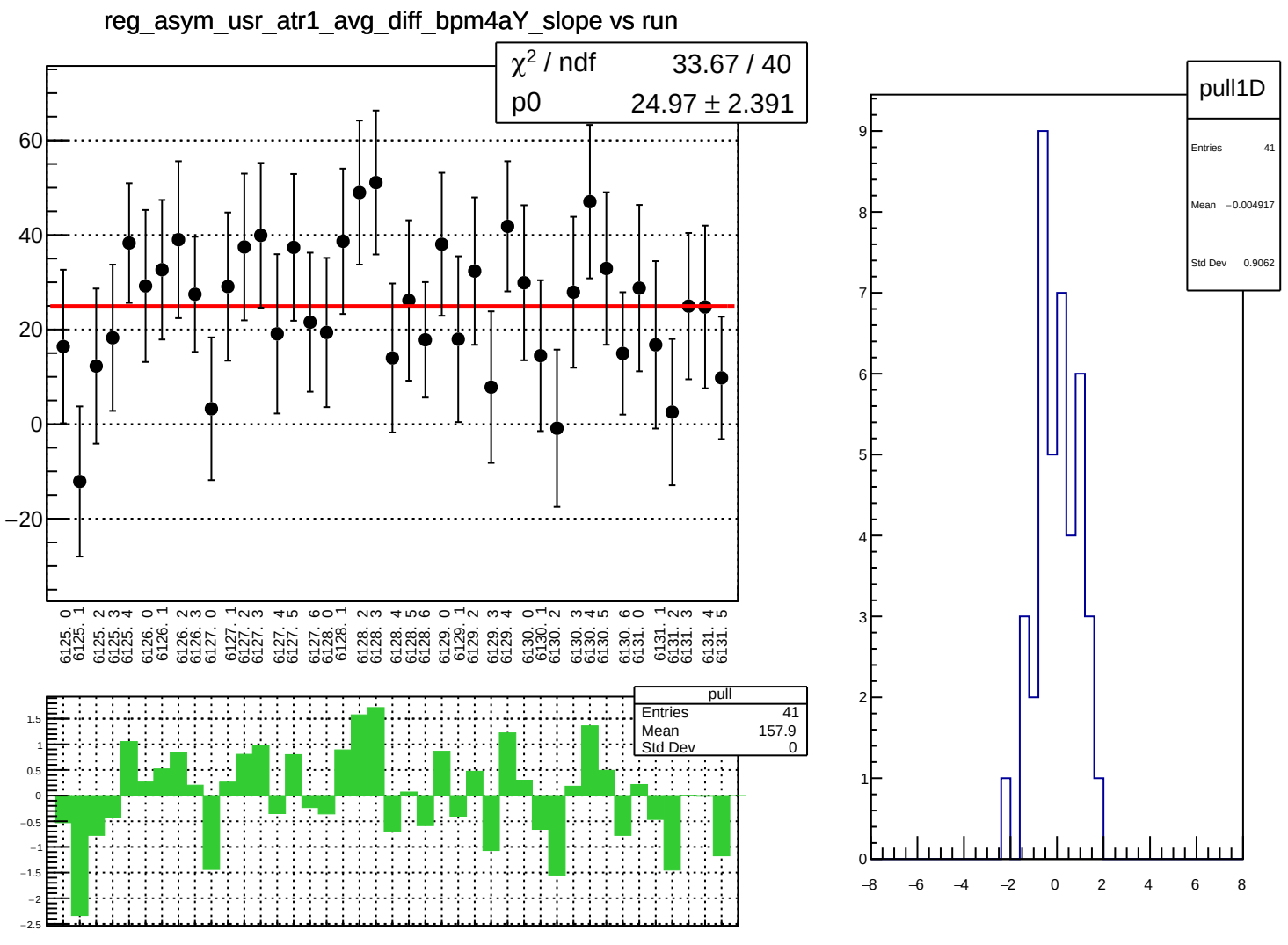

pull1D
Entries 41
Mean 0.004906
Std Dev 0.3631

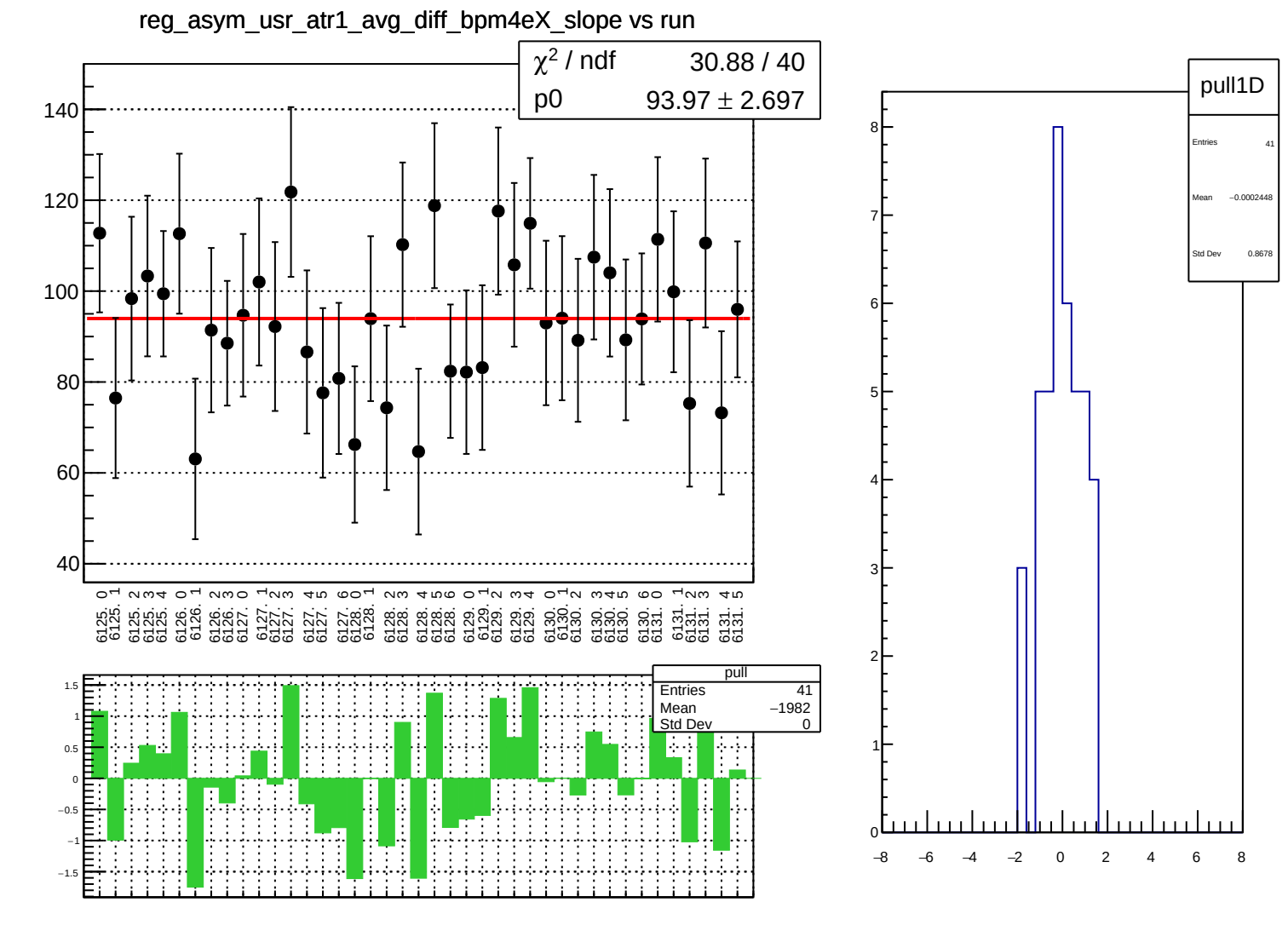

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 11.71 / 40
p0 76.56 ± 0.2549
pull
Entries 41
Mean 859.4
Std Dev 0

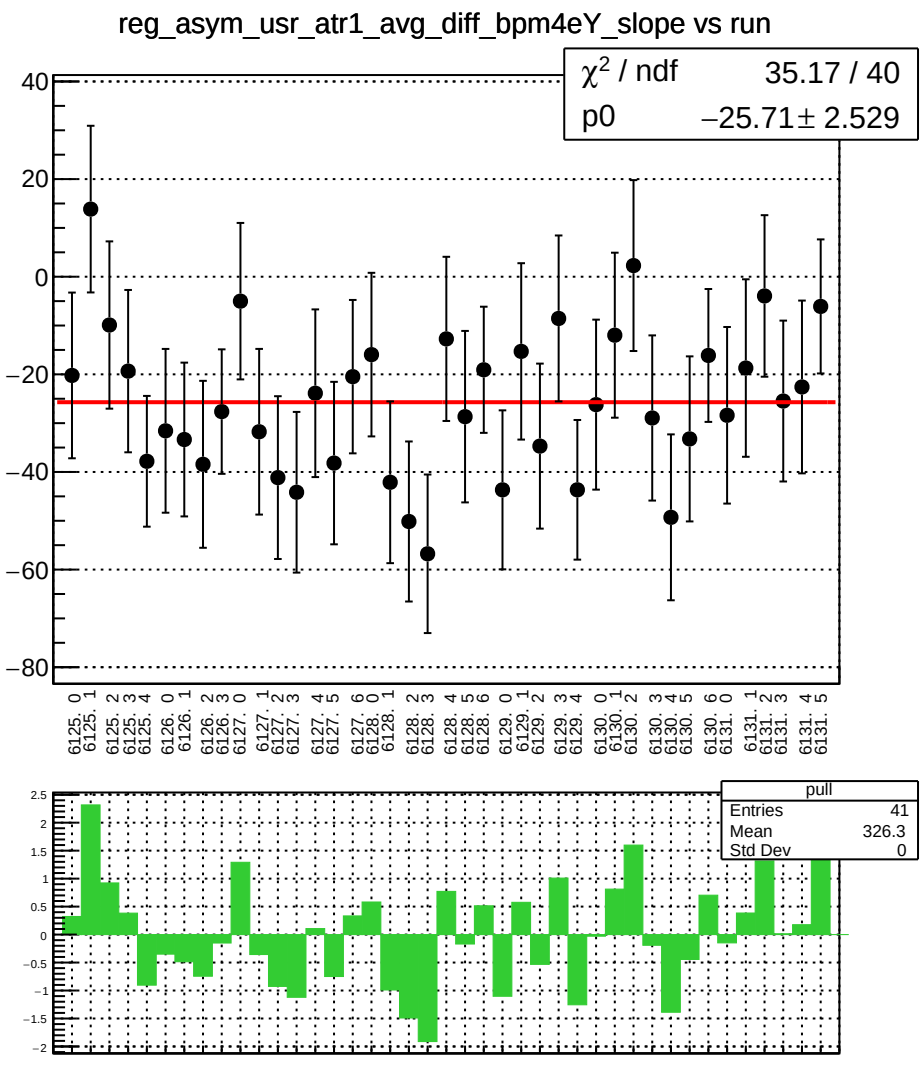

pull1D
Entries 41
Mean 0.001595
Std Dev 0.5345

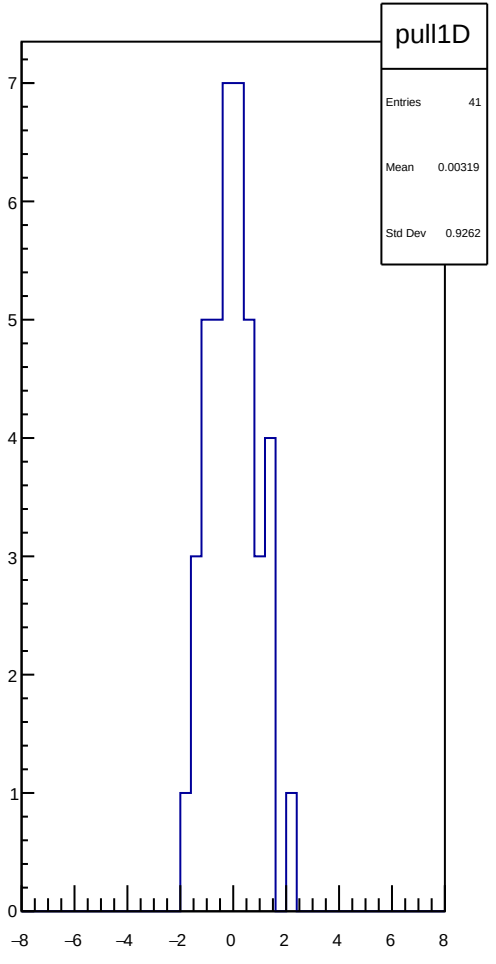

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 31 / 40
p0 −71.39 ± 2.213
pull
Entries 41
Mean −277.8
Std Dev 0

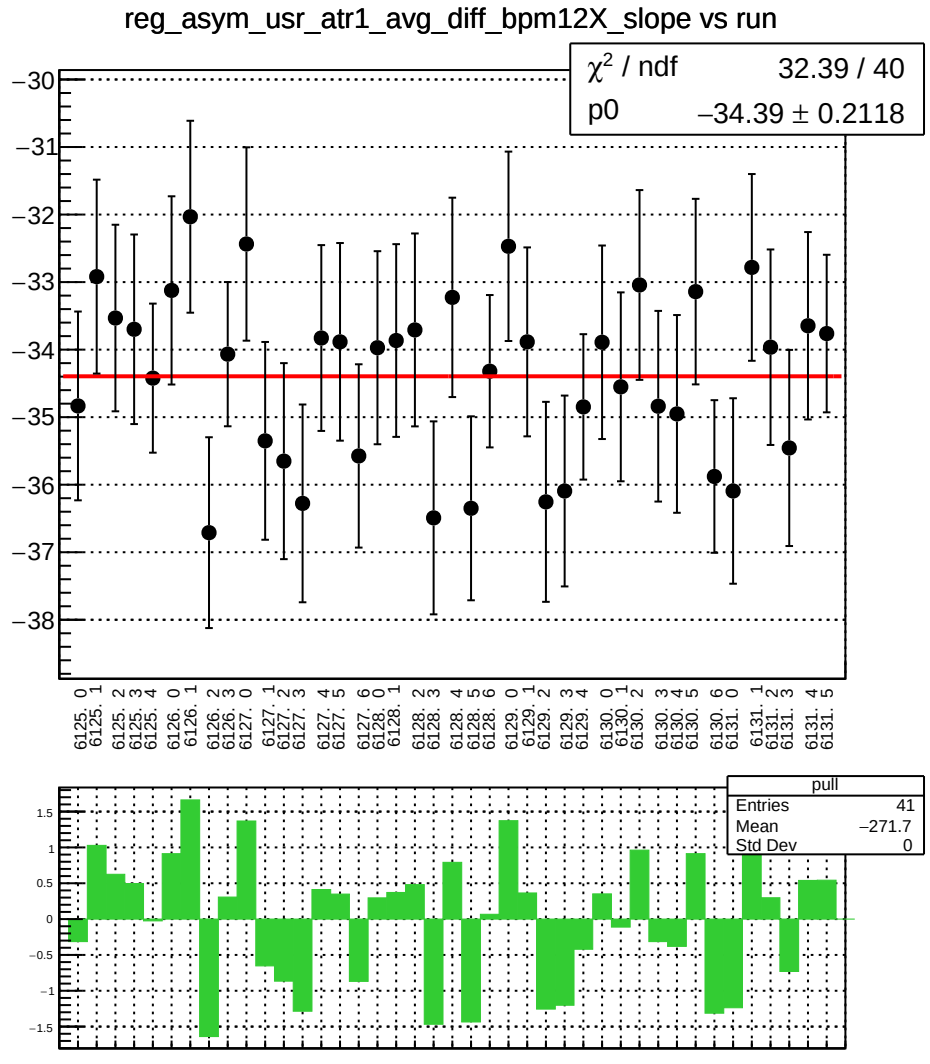

pull1D
Entries 41
Mean 0.001833
Std Dev 0.8696

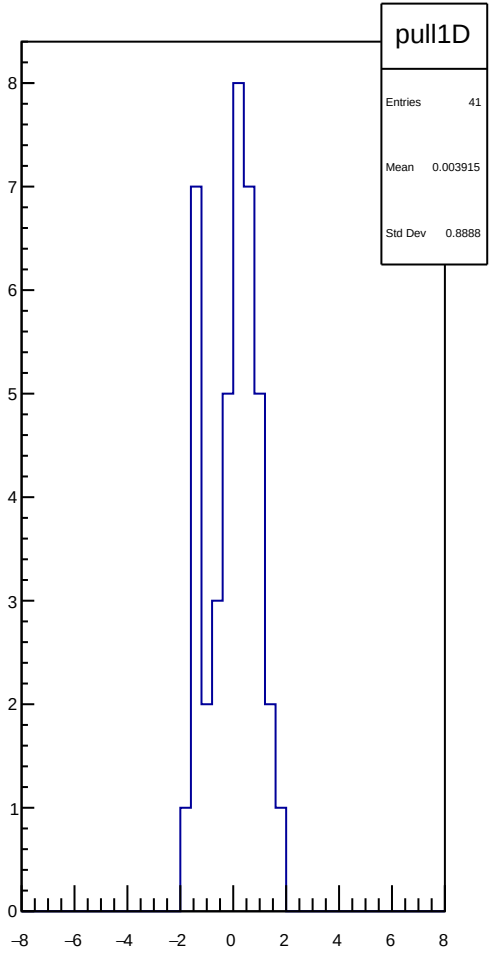

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.67 / 40
p0 24.97 ± 2.391
60
40
20
0
−20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 157.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean −0.004917
Std Dev 0.9062
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

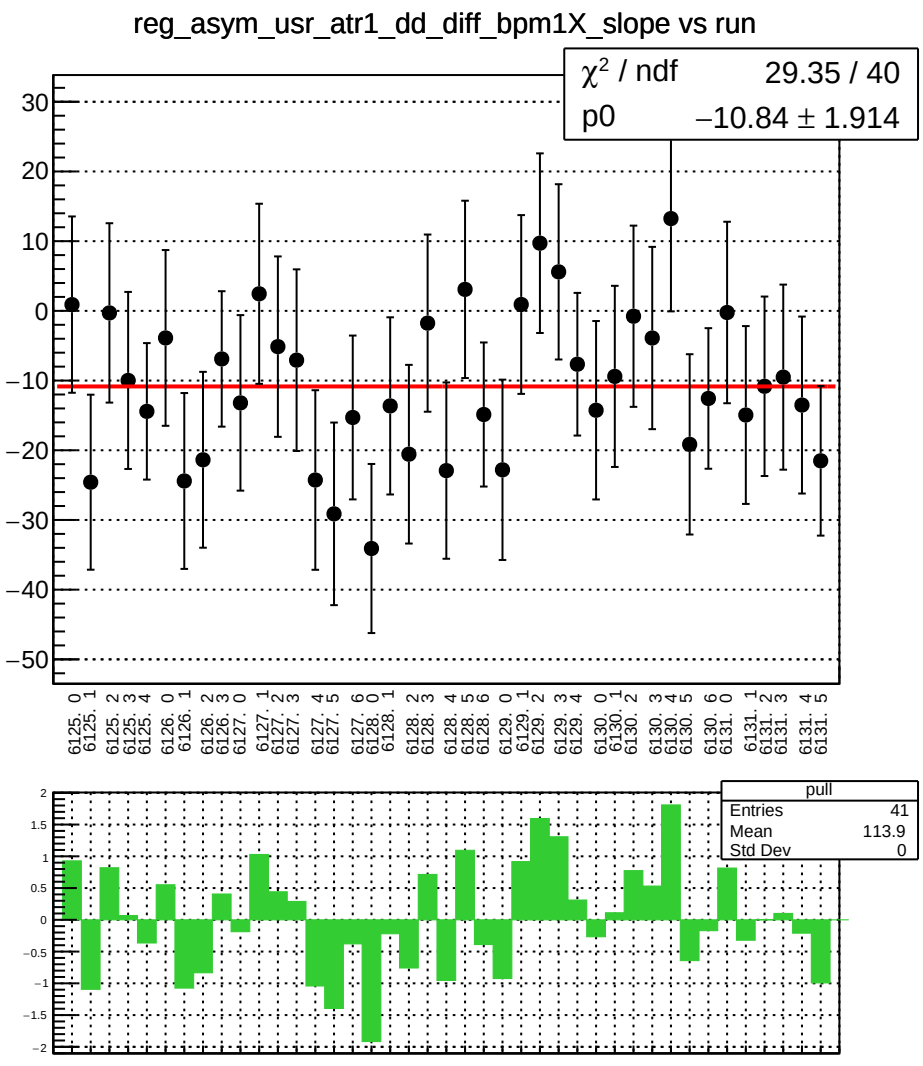

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.88 / 40
p0 93.97 ± 2.697
140
120
100
80
60
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1982
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.0002448
Std Dev 0.8678
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

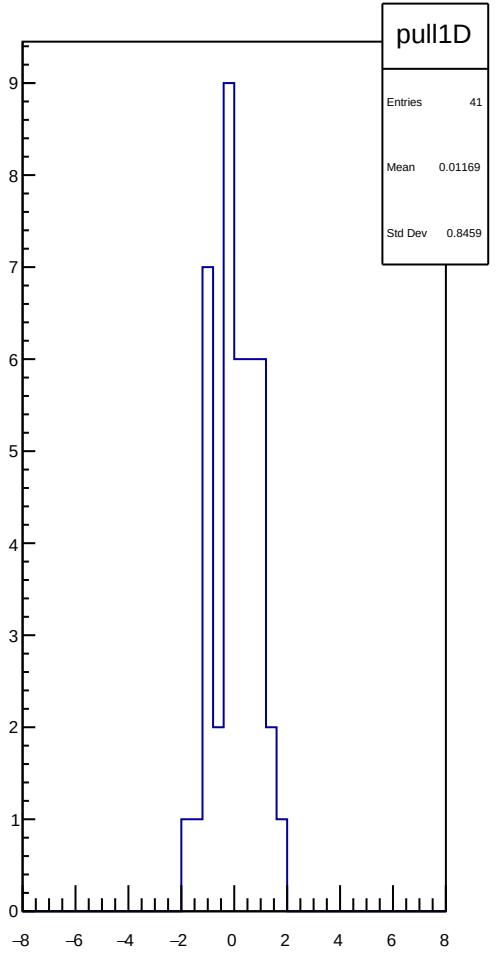

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.17 / 40
p0 −25.71± 2.529
pull
Entries 41
Mean 326.3
Std Dev 0

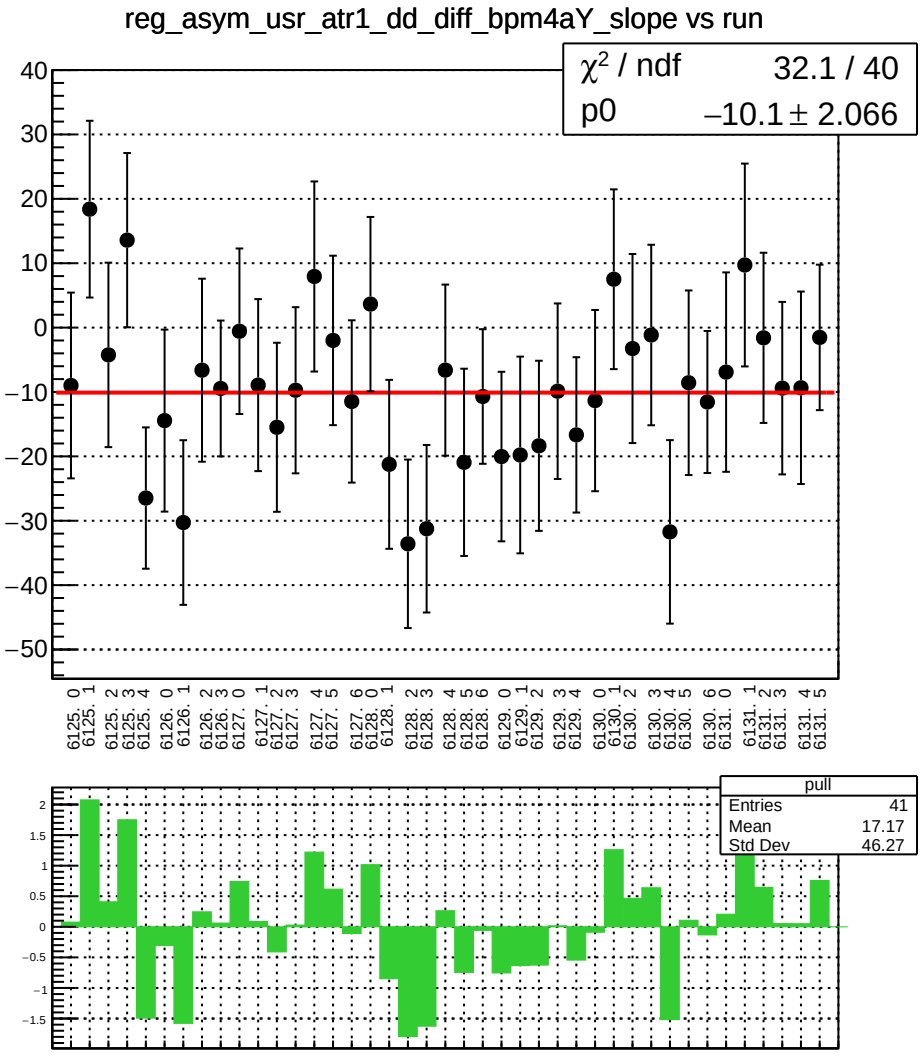

pull1D
Entries 41
Mean 0.00319
Std Dev 0.9262

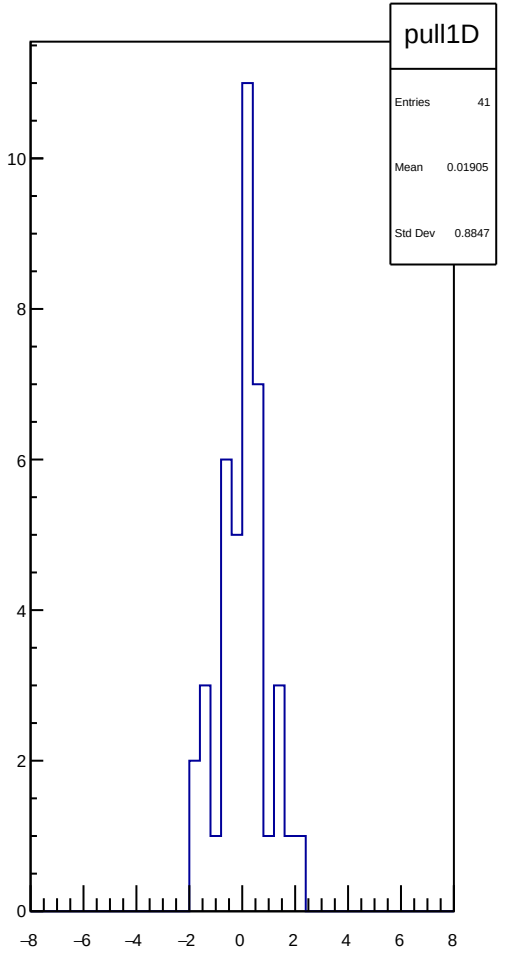

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 32.39 / 40
p0 −34.39 ± 0.2118
pull
Entries 41
Mean −271.7
Std Dev 0

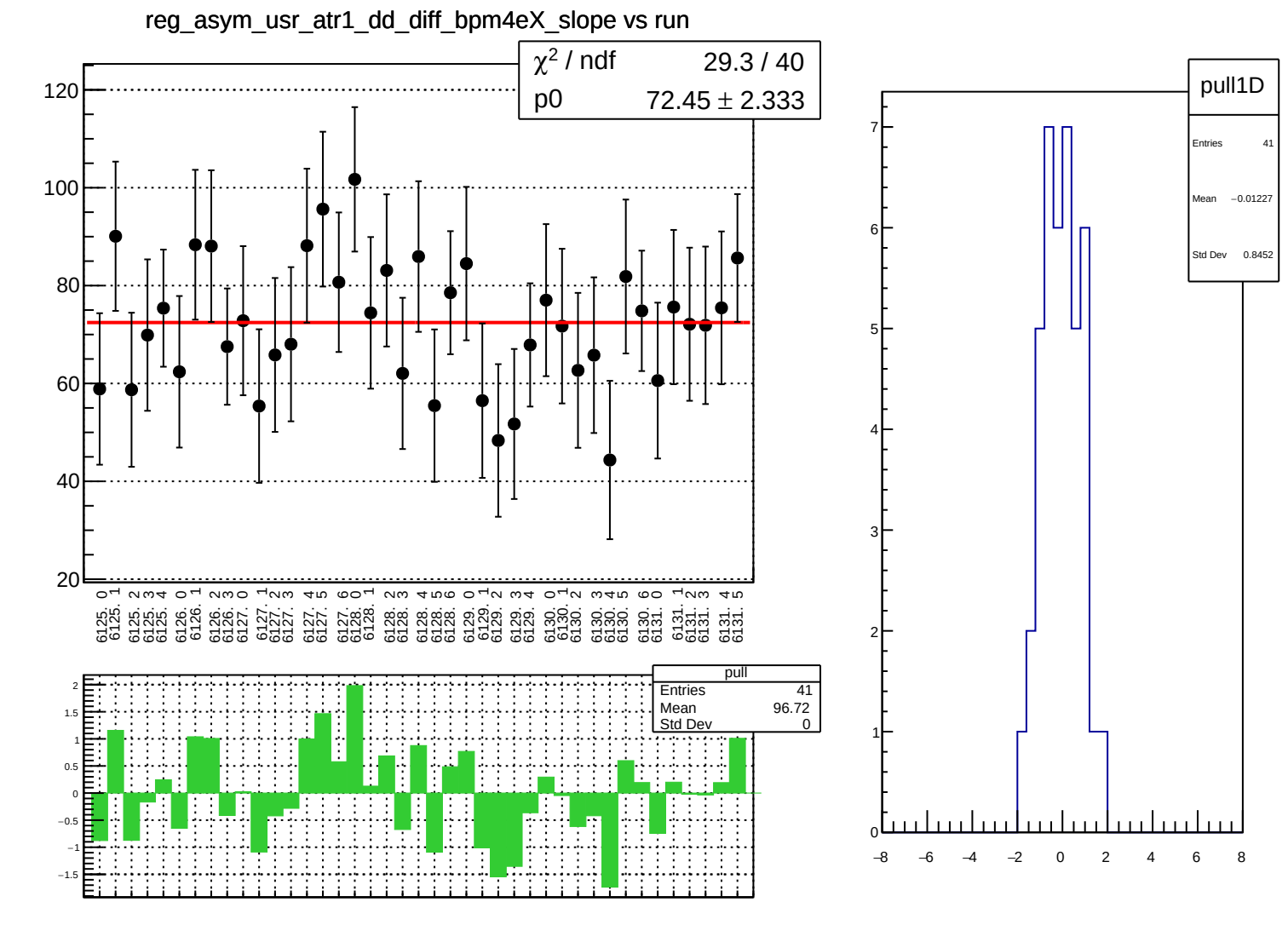

pull1D
Entries 41
Mean 0.003915
Std Dev 0.8888

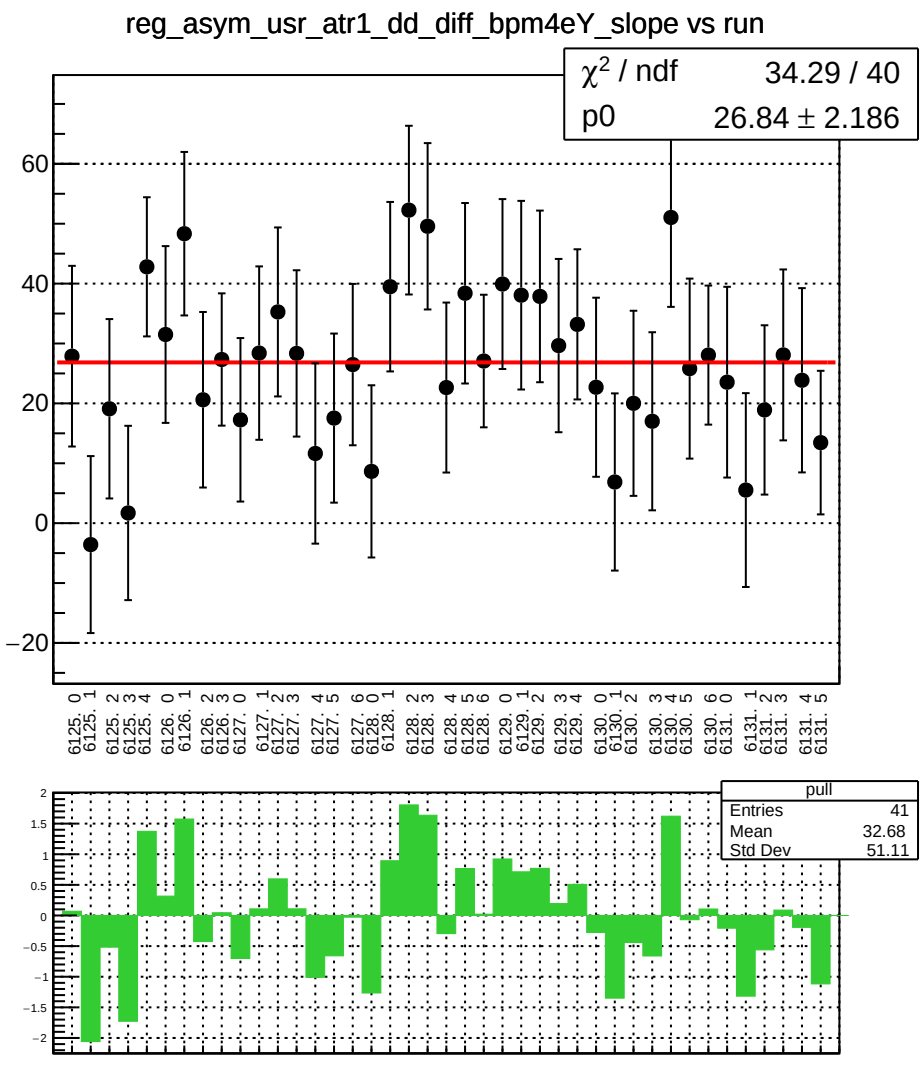

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 29.35 / 40
p0 −10.84 ± 1.914
pull
Entries 41
Mean 113.9
Std Dev 0

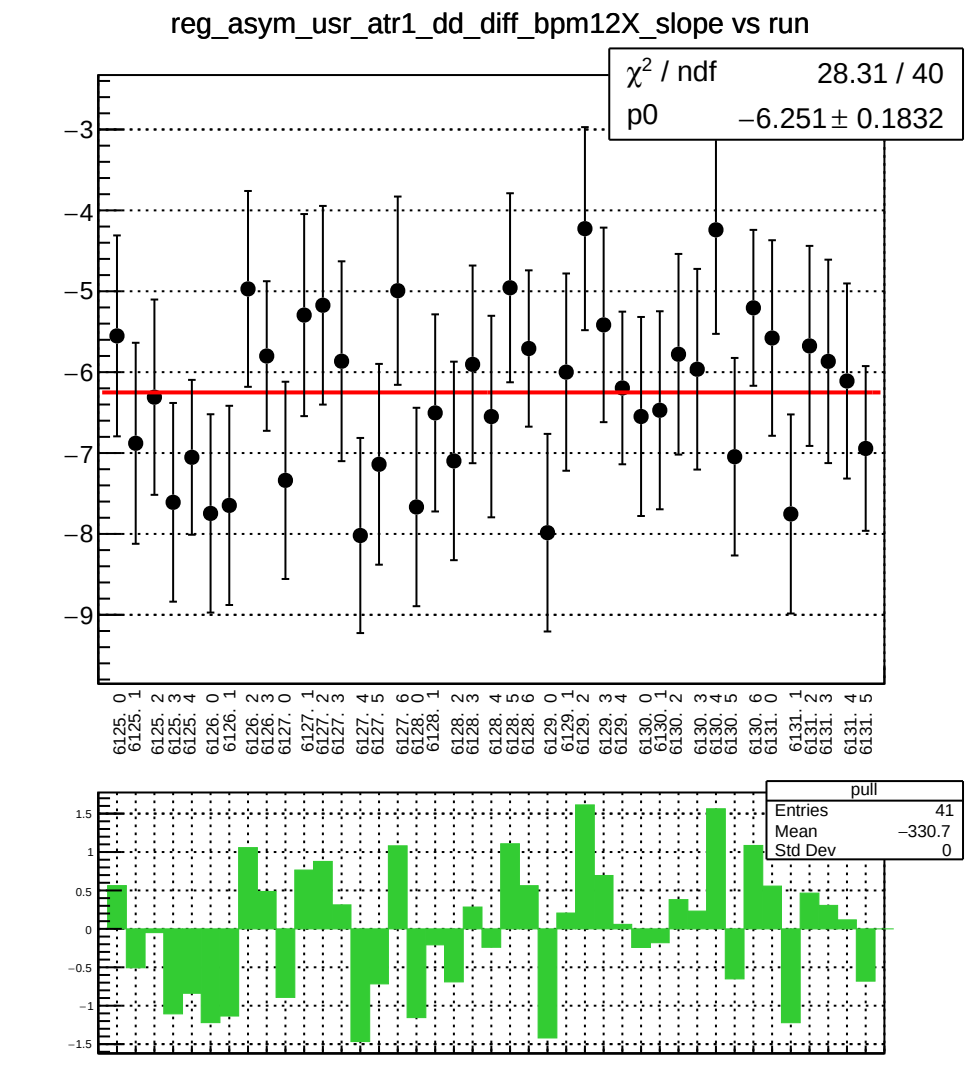

pull1D
Entries 41
Mean 0.01169
Std Dev 0.8459

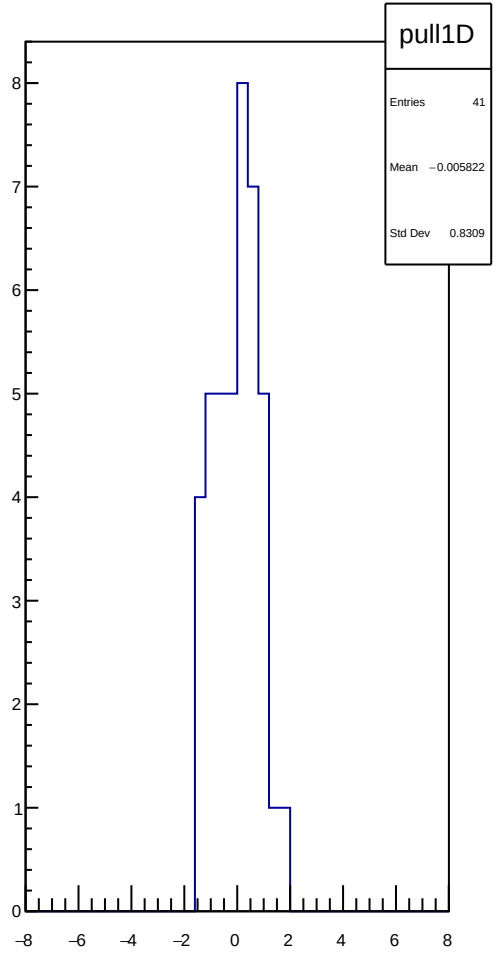

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.1 / 40
p0 −10.1 ± 2.066
pull
Entries 41
Mean 17.17
Std Dev 46.27

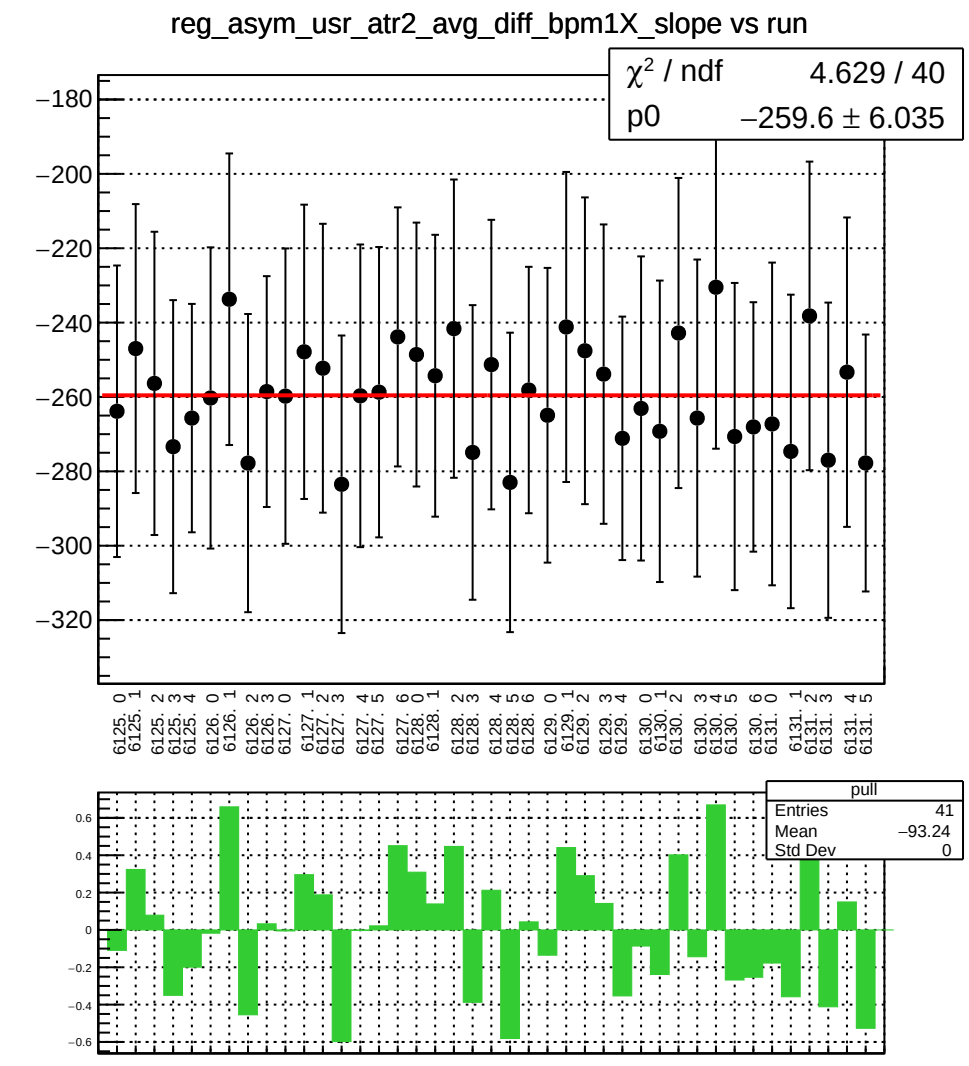

pull1D
Entries 41
Mean 0.01905
Std Dev 0.8847

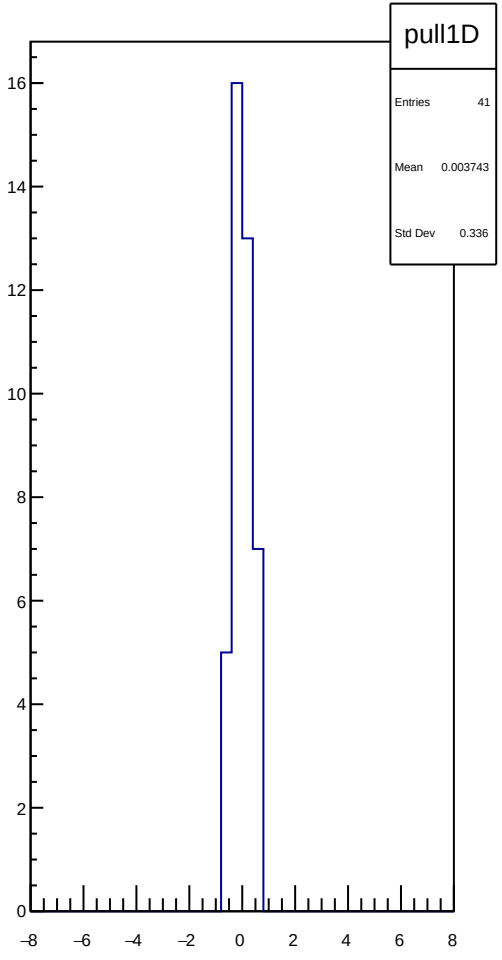

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.3 / 40
p0 72.45 ± 2.333
120
100
80
60
40
20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 96.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.01227
Std Dev 0.8452
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

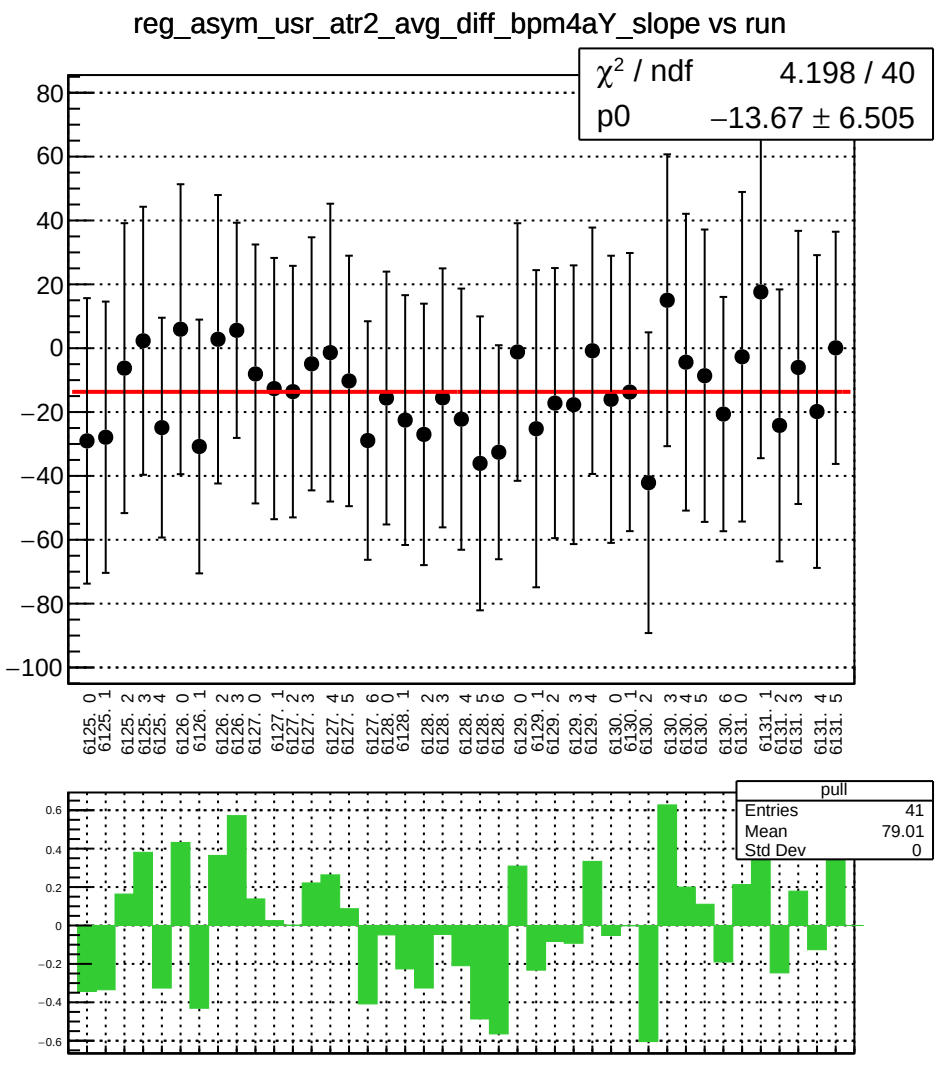

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.29 / 40
p0 26.84 ± 2.186
60
40
20
0
−20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 32.68
Std Dev 51.11
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.01576
Std Dev 0.9143
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

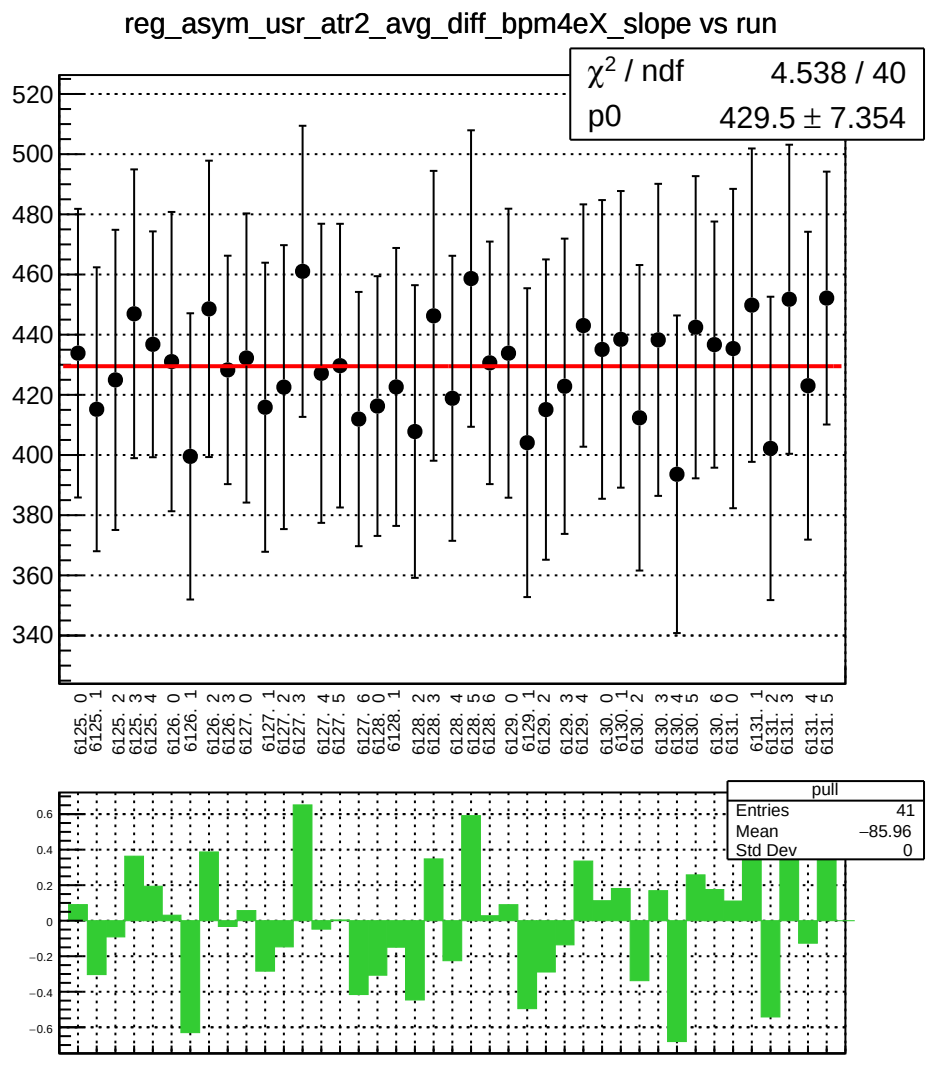

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 28.31 / 40
p0 −6.251 ± 0.1832
pull
Entries 41
Mean −330.7
Std Dev 0

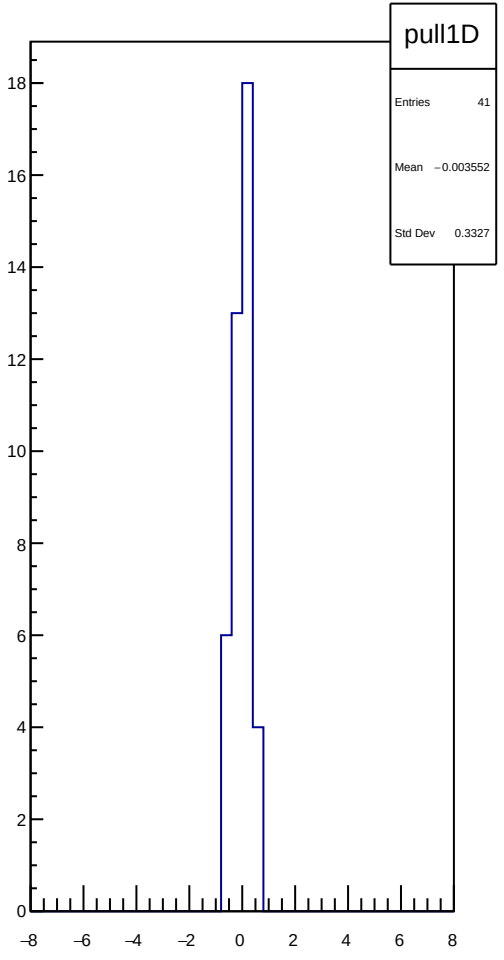

pull1D
Entries 41
Mean −0.005822
Std Dev 0.8309

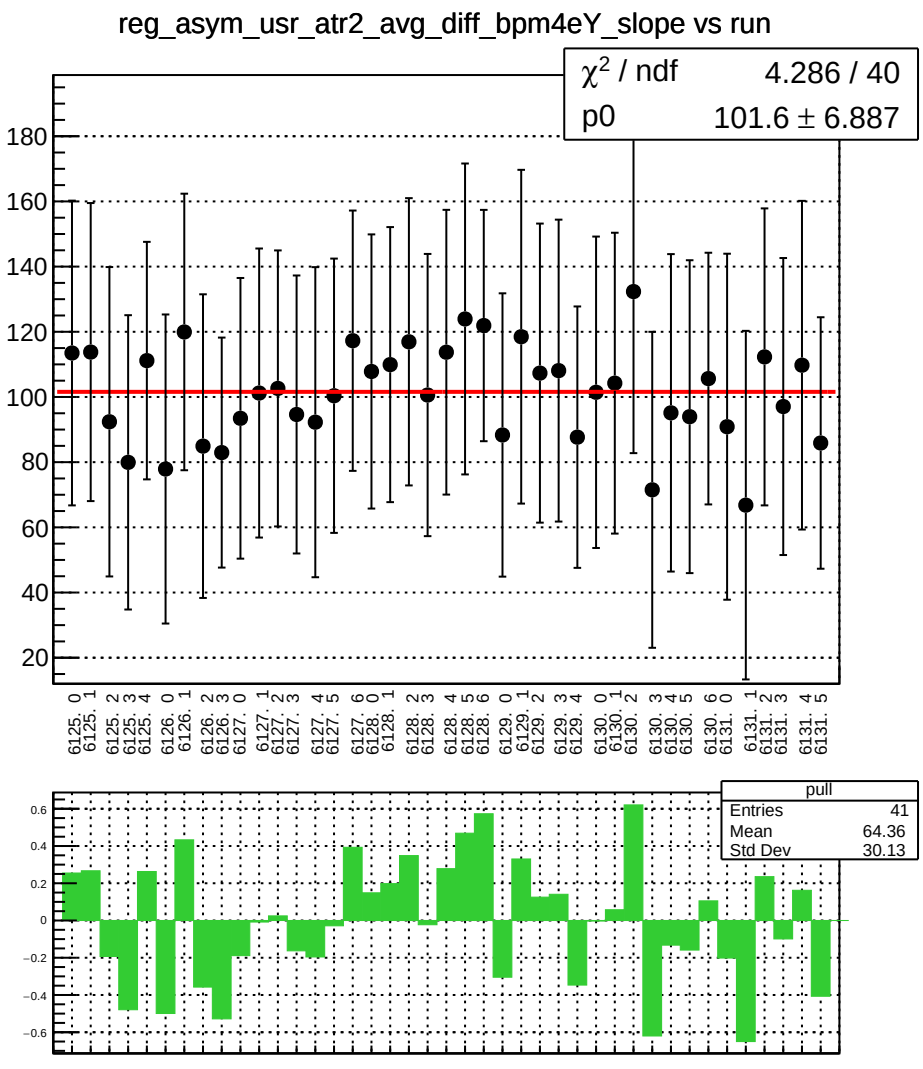

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 4.629 / 40
p0 −259.6 ± 6.035
pull
Entries 41
Mean −93.24
Std Dev 0

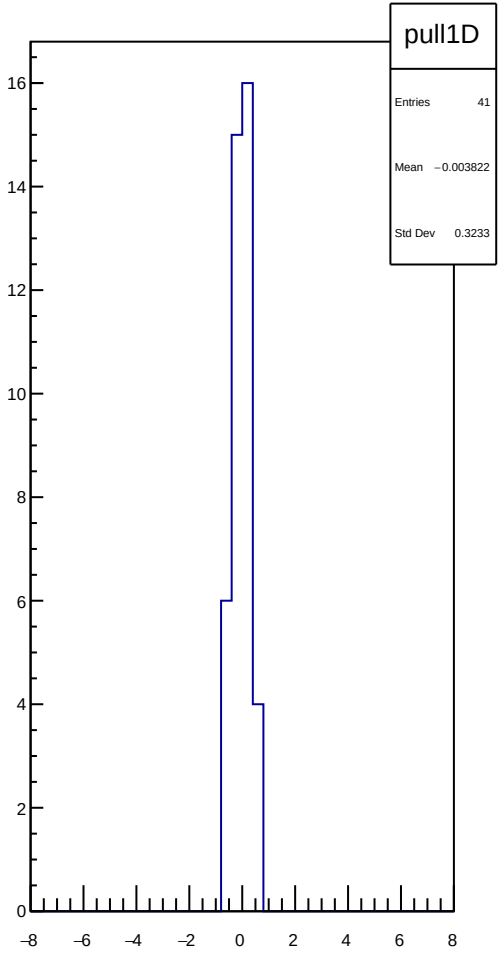

pull1D
Entries 41
Mean 0.003743
Std Dev 0.336

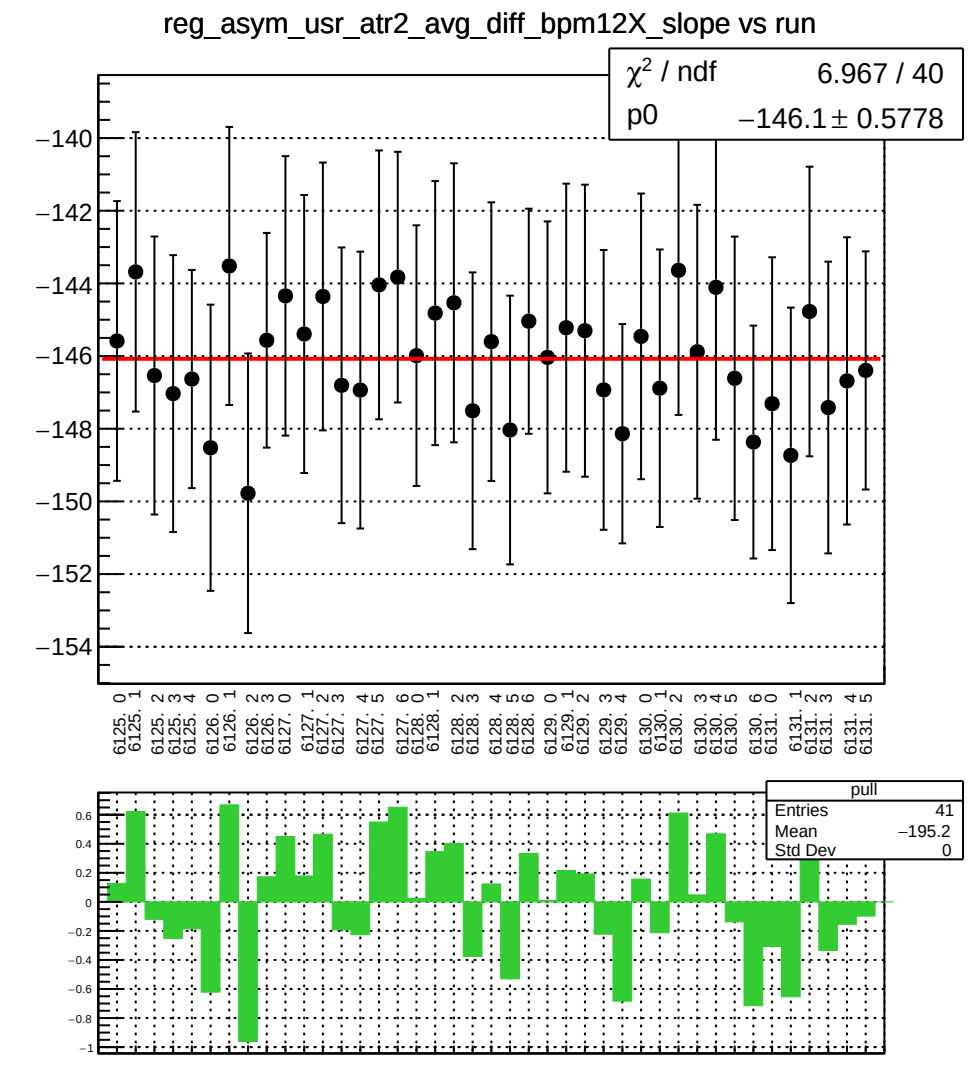

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.198 / 40
p0 −13.67 ± 6.505
pull
Entries 41
Mean 79.01
Std Dev 0
pull1D
Entries 41
Mean 0.00543
Std Dev 0.3199

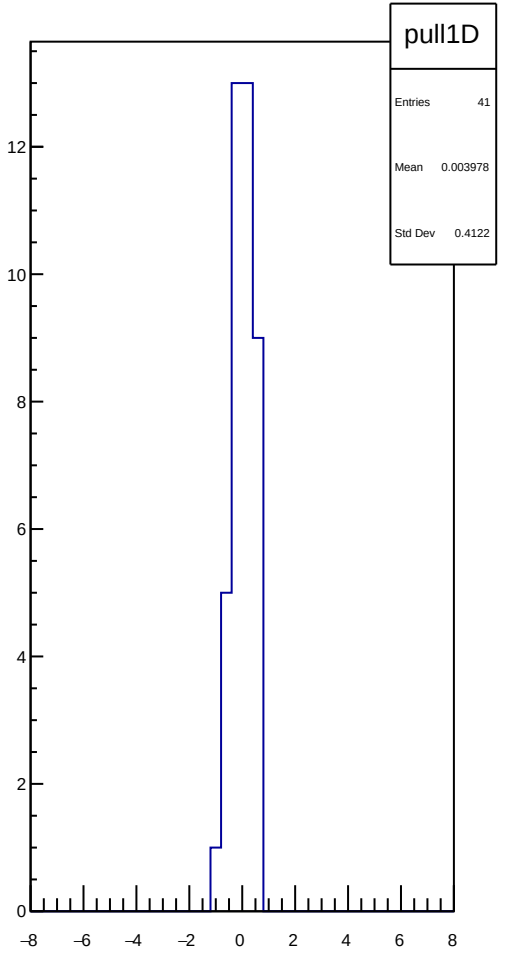

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.538 / 40
p0 429.5 ± 7.354
pull
Entries 41
Mean −85.96
Std Dev 0

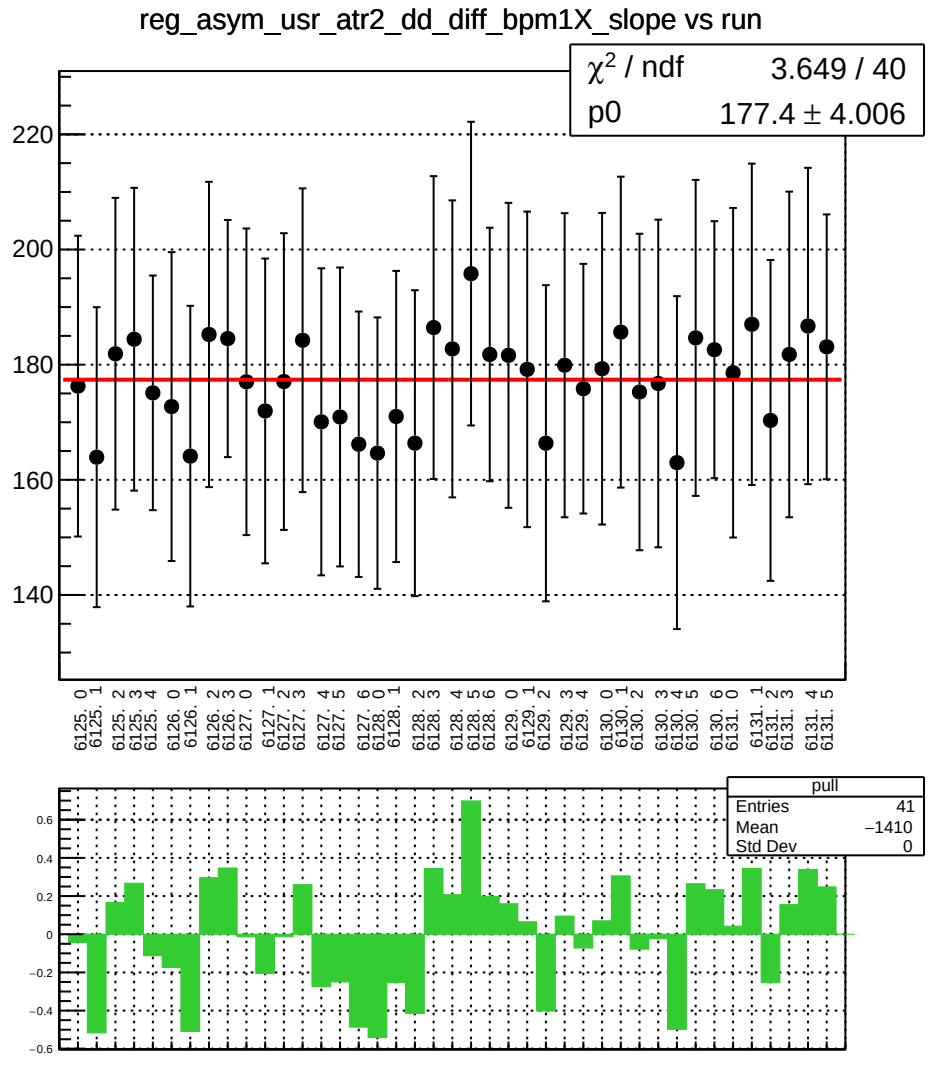

pull1D
Entries 41
Mean −0.003552
Std Dev 0.3327

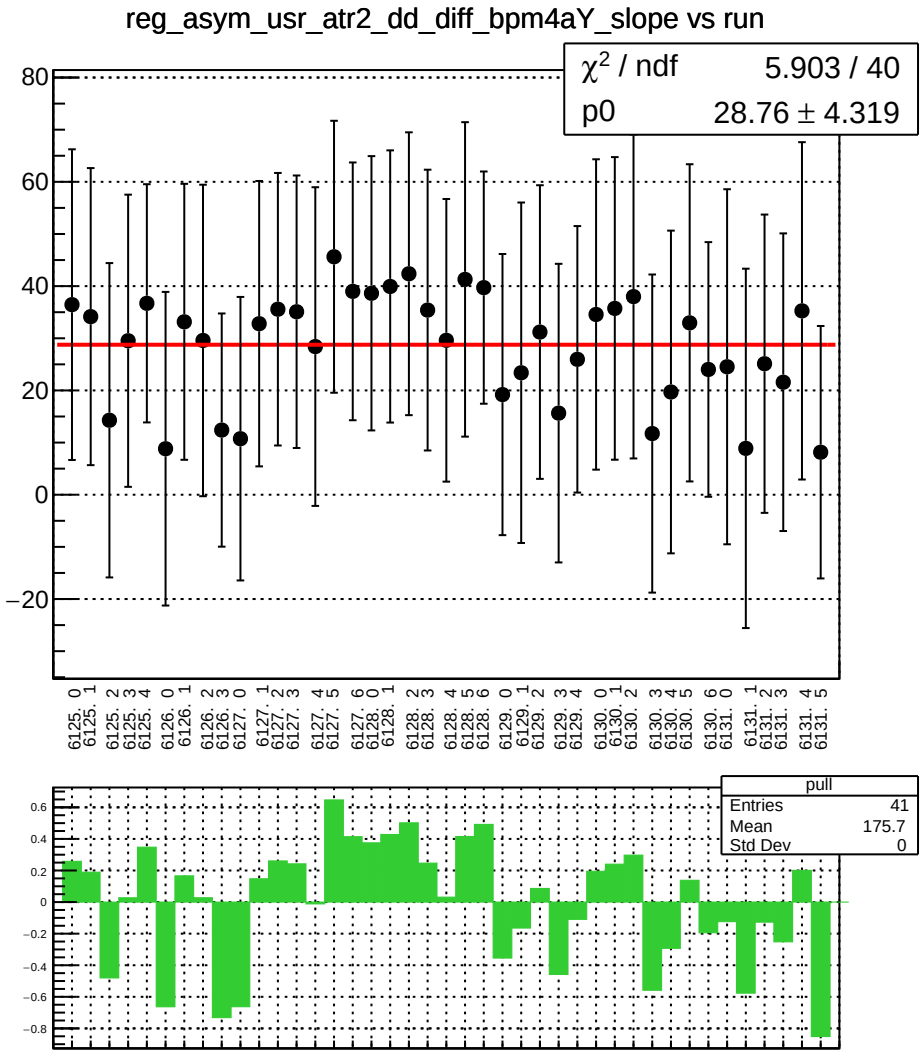

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.286 / 40
p0 101.6 ± 6.887
pull
Entries 41
Mean 64.36
Std Dev 30.13

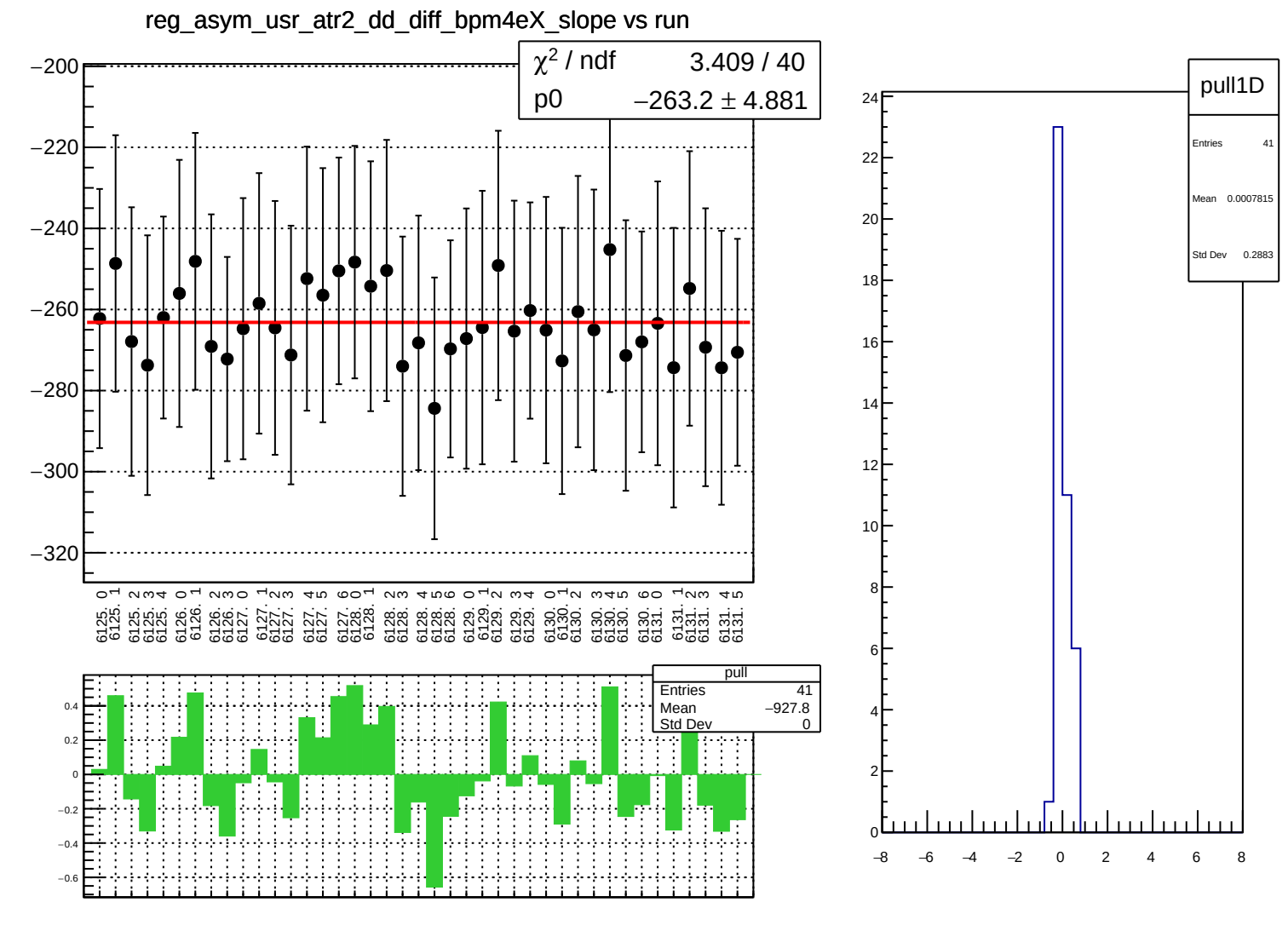

pull1D
Entries 41
Mean −0.003822
Std Dev 0.3233

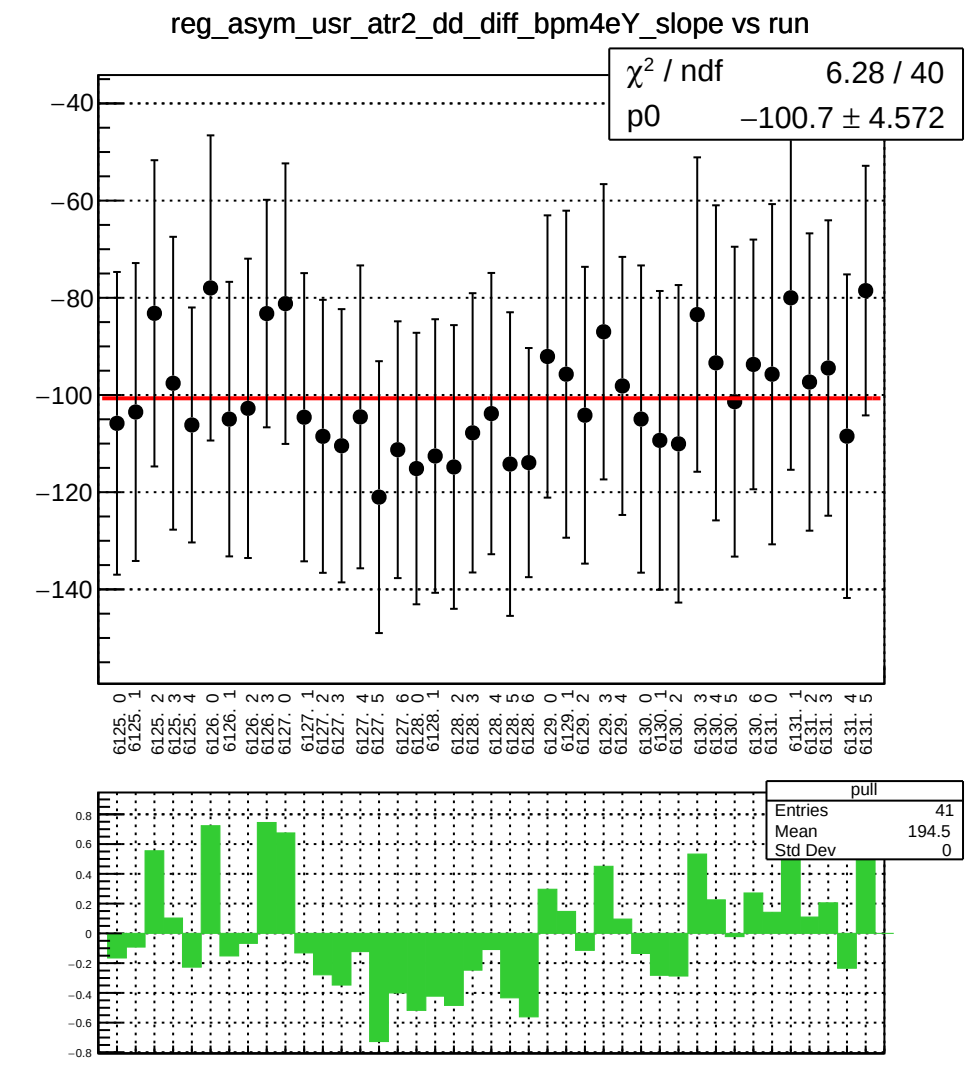

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 6.967 / 40
p0 −146.1 ± 0.5778
−140
−142
−144
−146
−148
−150
−152
−154
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −195.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

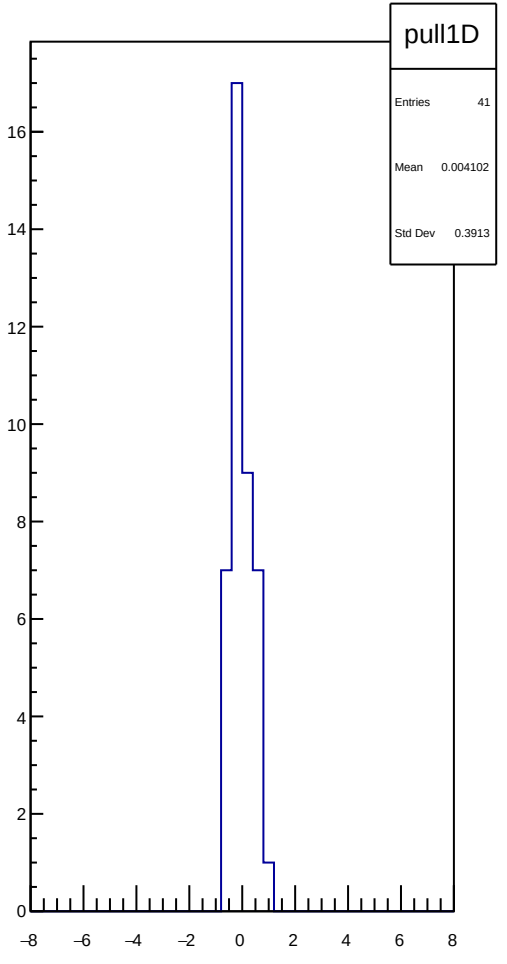

pull1D
Entries 41
Mean 0.003978
Std Dev 0.4122
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

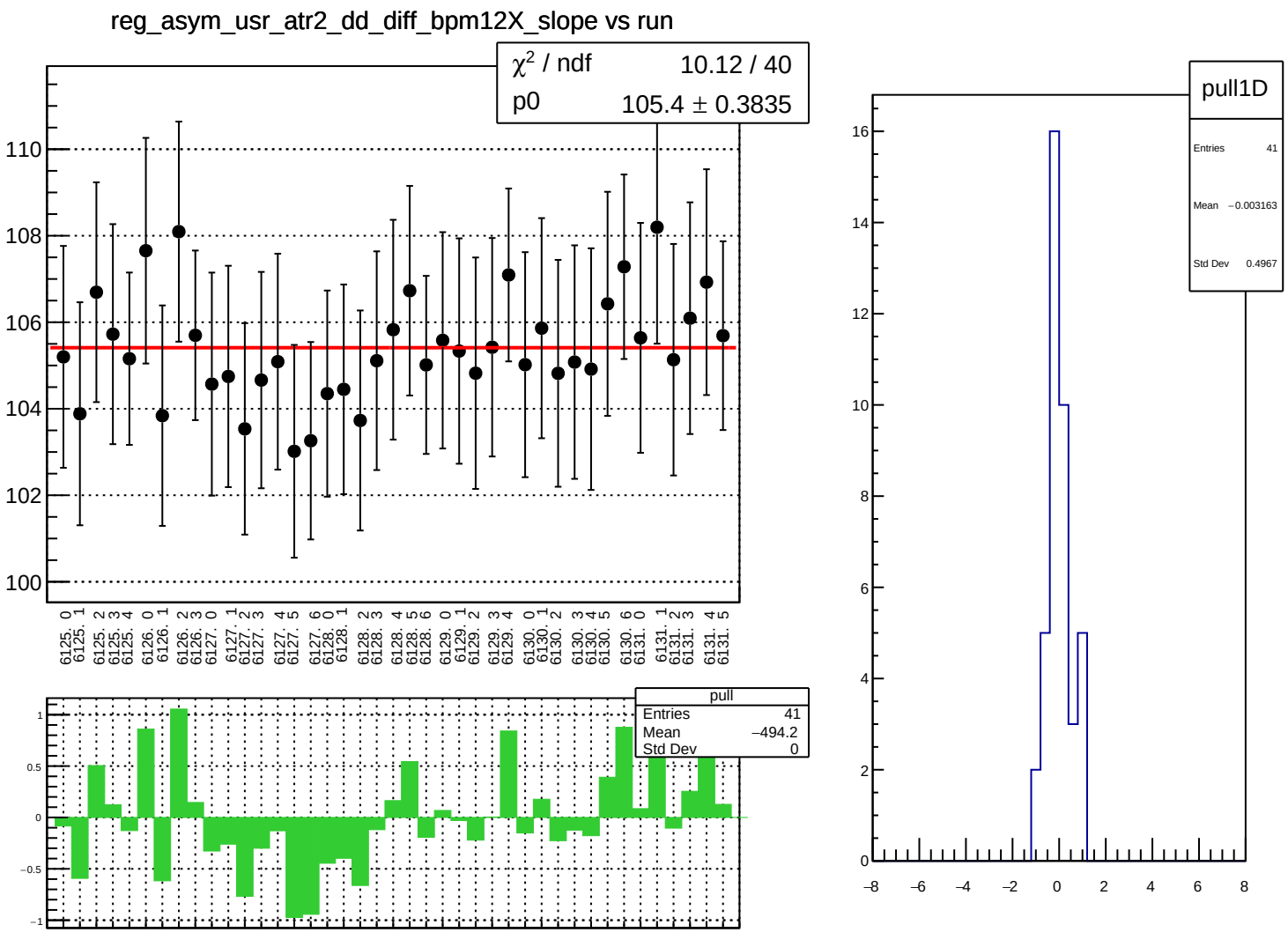

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 3.649 / 40
p0 177.4 ± 4.006
220
200
180
160
140
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −1410
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean −0.0005982
Std Dev 0.2983
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

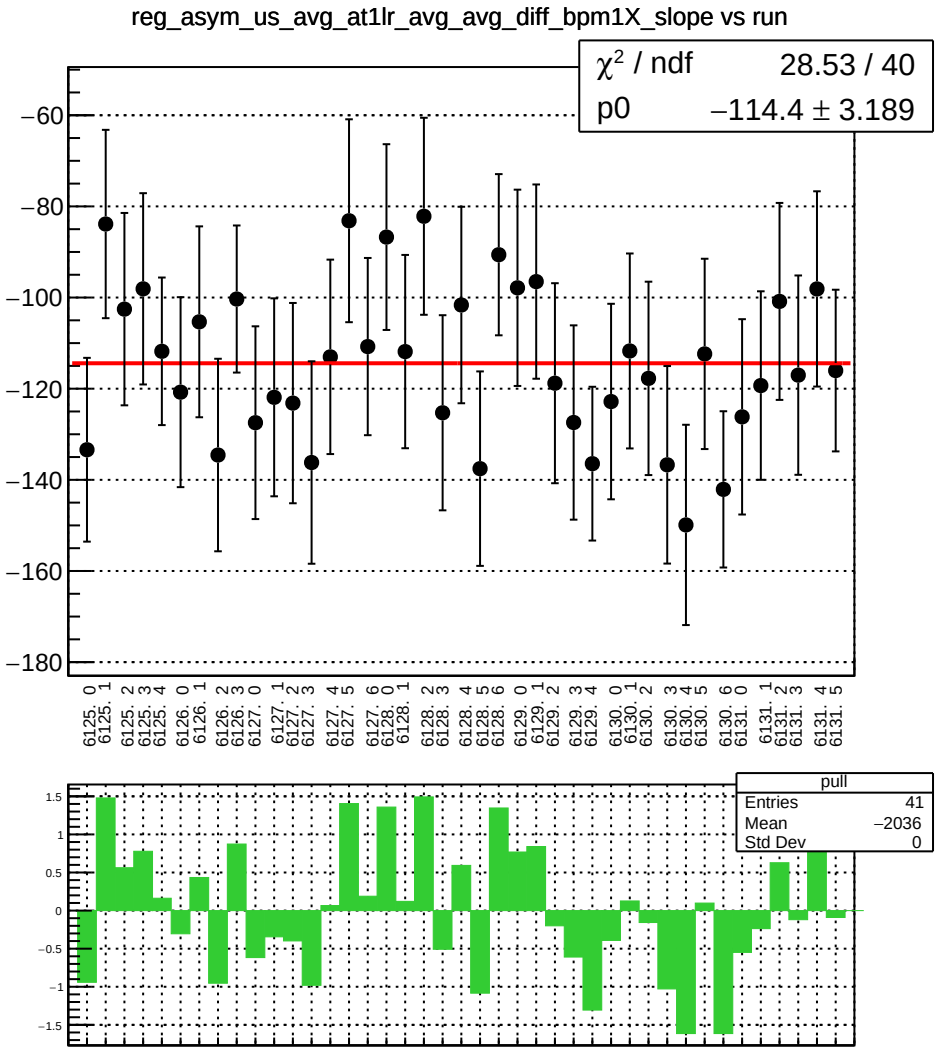

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.903 / 40
p0 28.76 ± 4.319
80
60
40
20
0
−20
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 175.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean −0.005778
Std Dev 0.3794
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

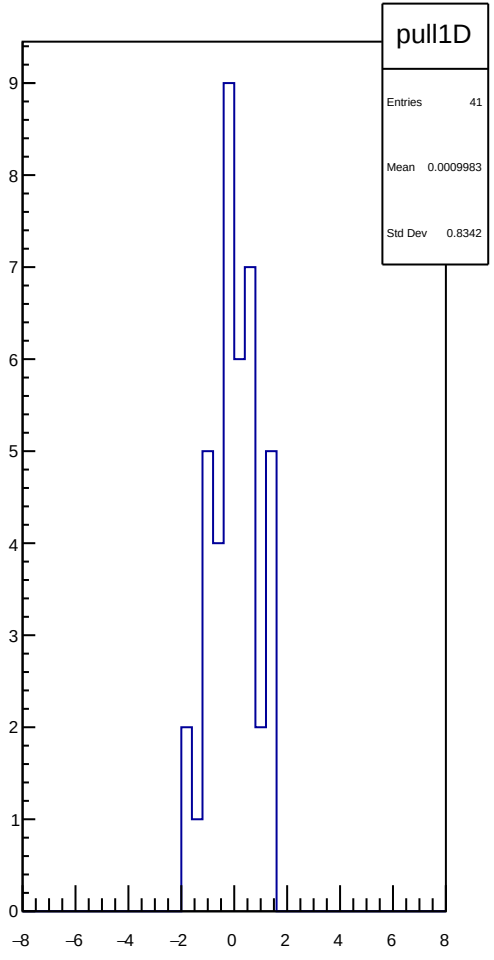

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.409 / 40
p0 −263.2 ± 4.881
−200
−220
−240
−260
−280
−300
−320
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −927.8
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean 0.0007815
Std Dev 0.2883
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

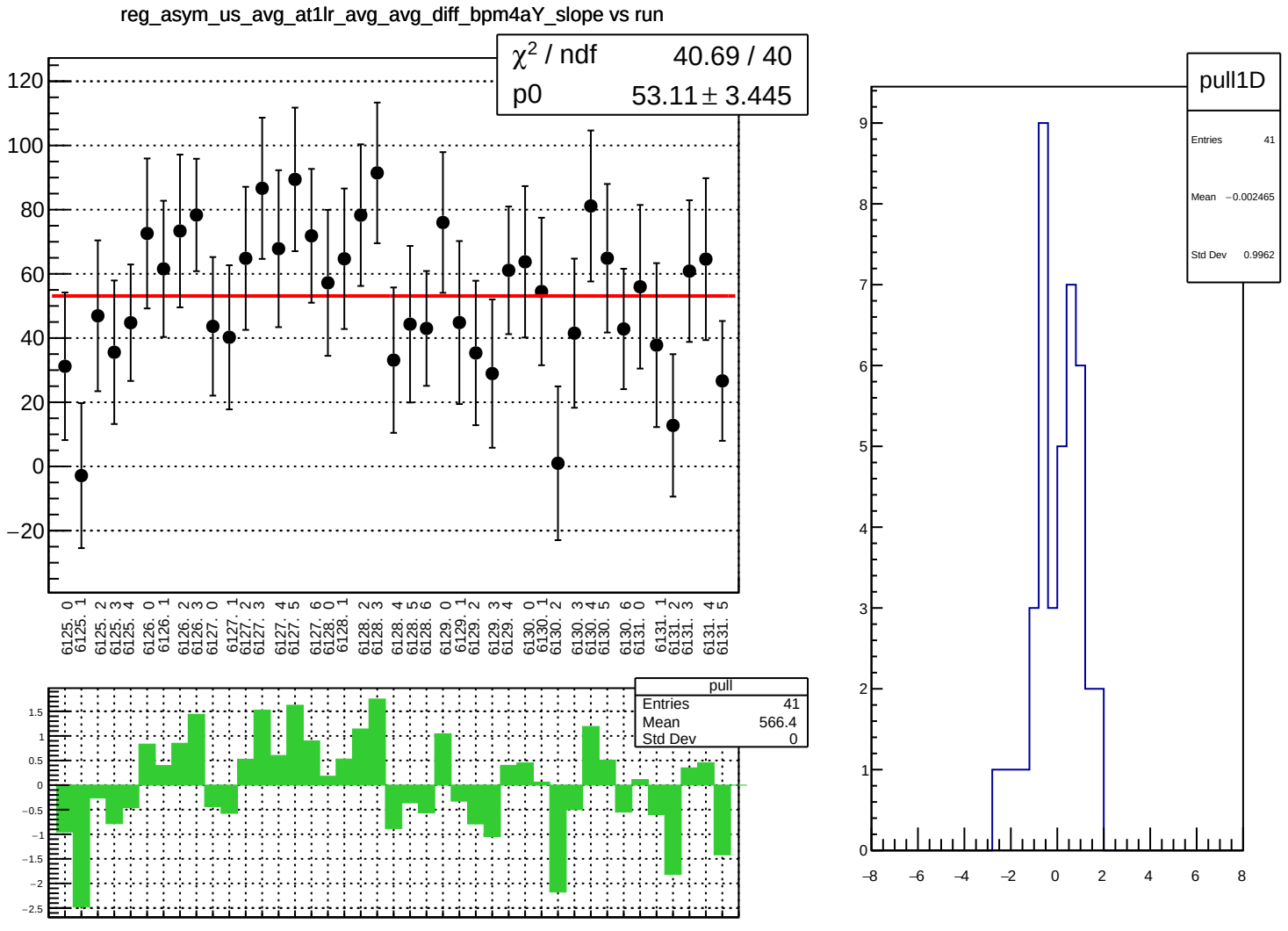

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.28 / 40
p0 −100.7 ± 4.572
−40
−60
−80
−100
−120
−140
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 194.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

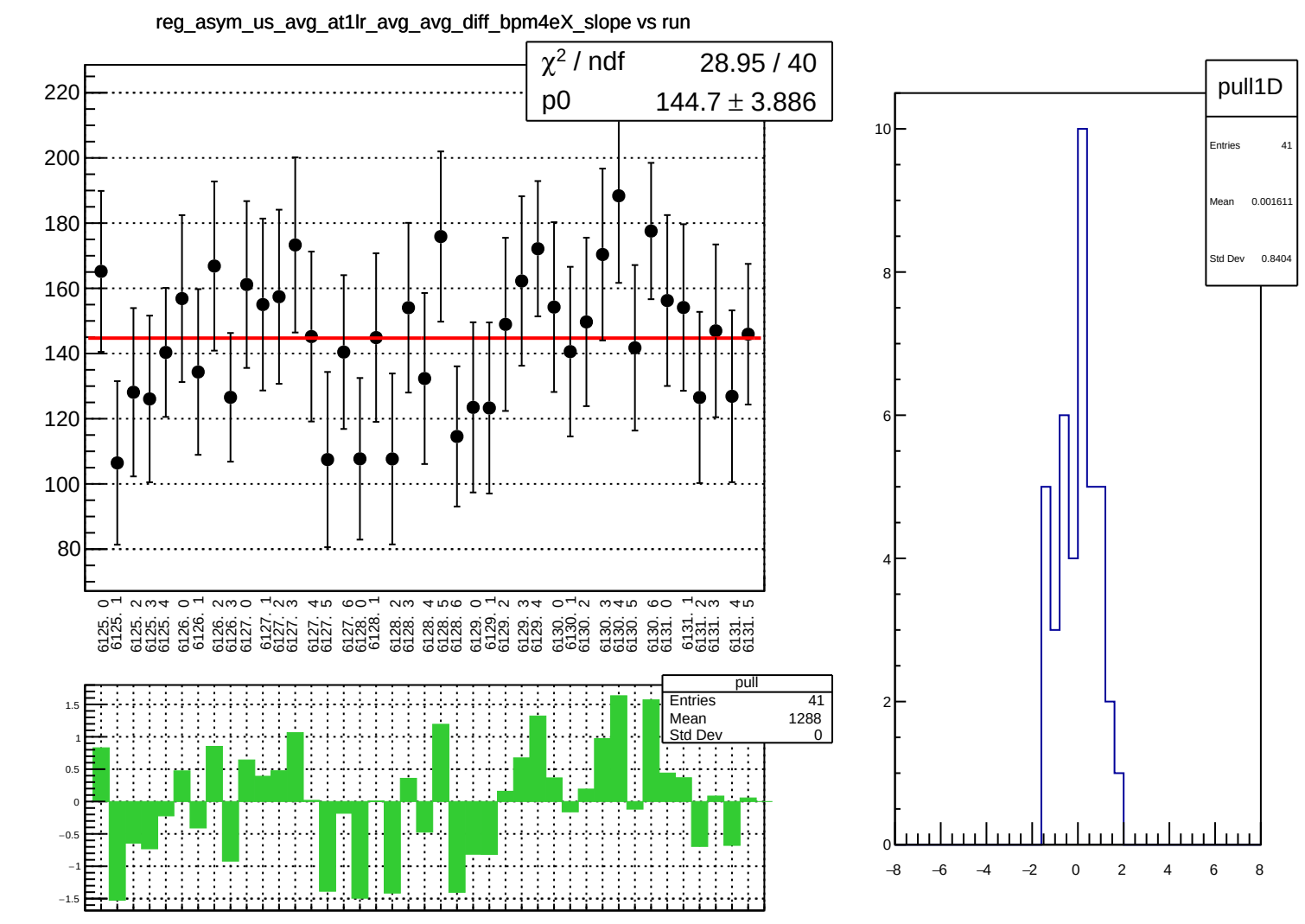

pull1D
Entries 41
Mean 0.004102
Std Dev 0.3913
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

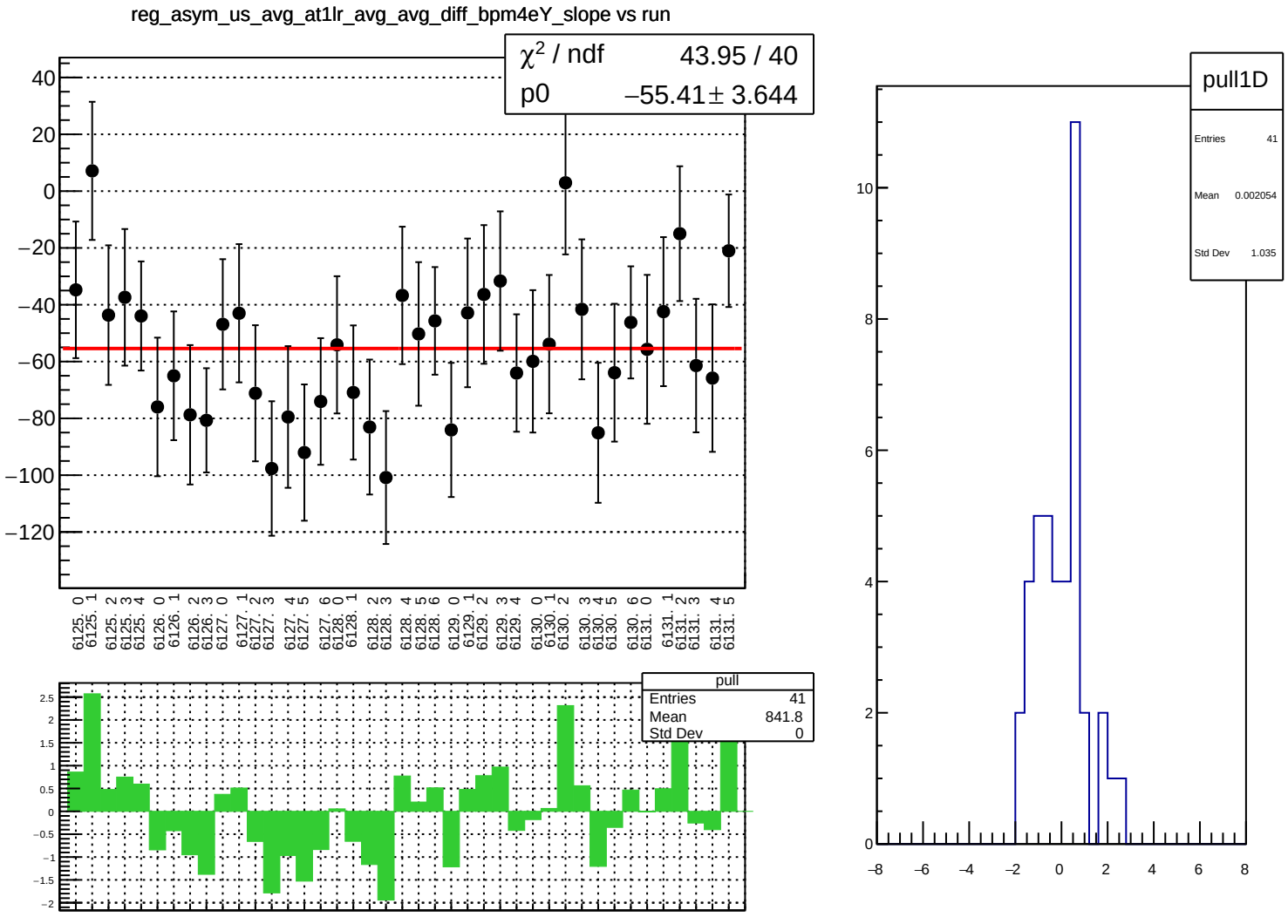

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 10.12 / 40
p0 105.4 ± 0.3835
110
108
106
104
102
100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −494.2
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.003163
Std Dev 0.4967
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

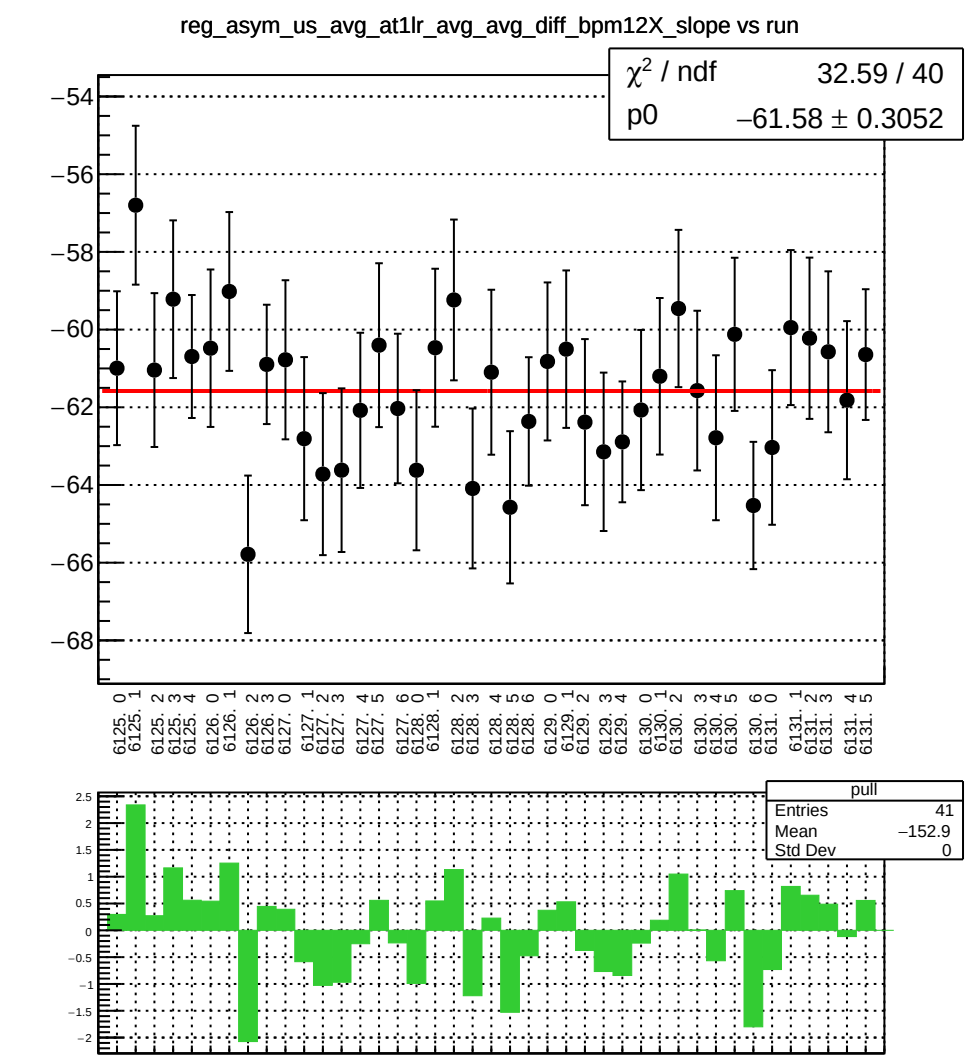

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 28.53 / 40
p0 −114.4 ± 3.189
pull
Entries 41
Mean −2036
Std Dev 0

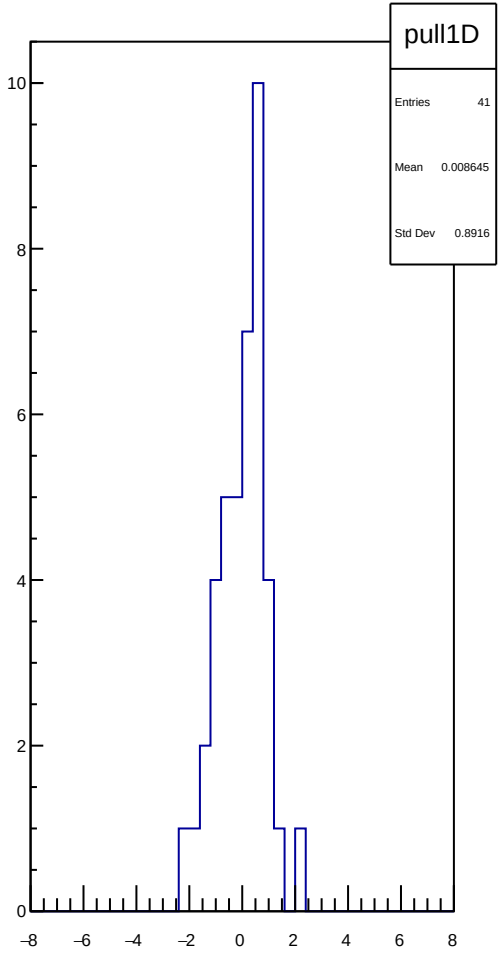

pull1D
Entries 41
Mean 0.0009983
Std Dev 0.8342

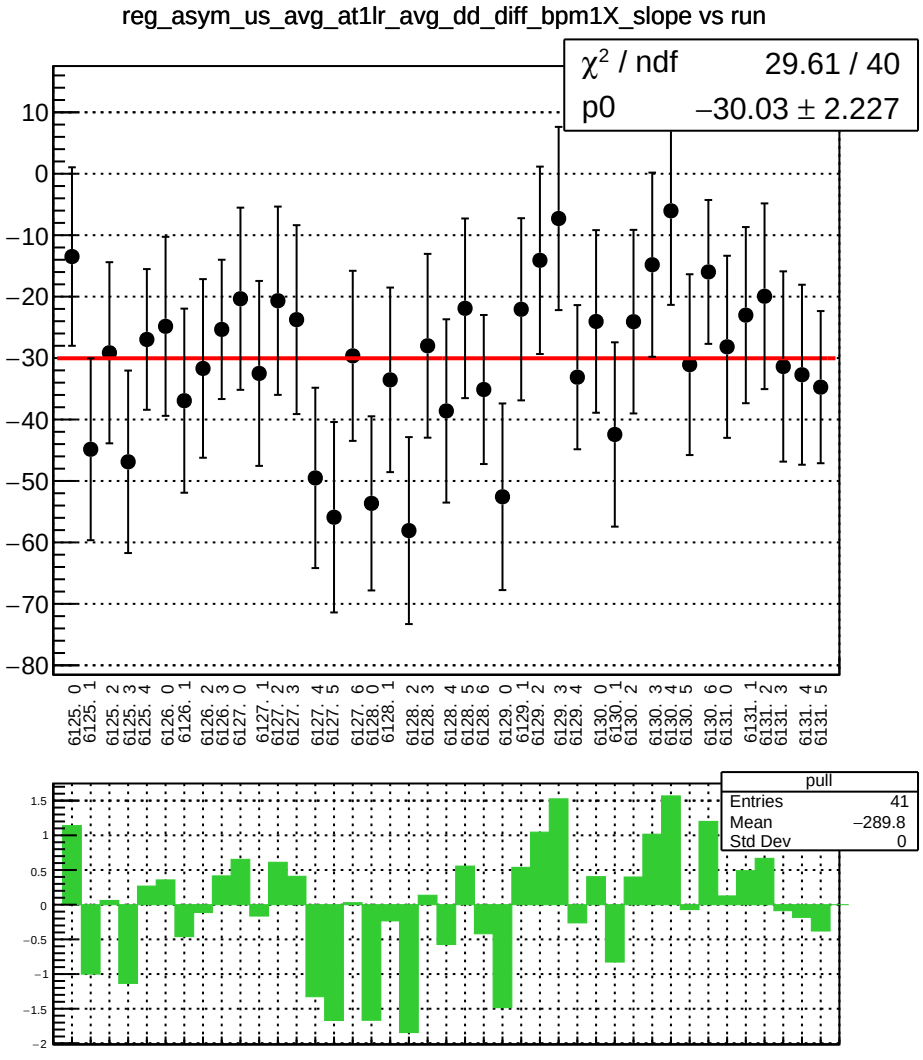

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 40.69 / 40
p0 53.11 ± 3.445
pull
Entries 41
Mean 566.4
Std Dev 0
pull1D
Entries 41
Mean −0.002465
Std Dev 0.9962

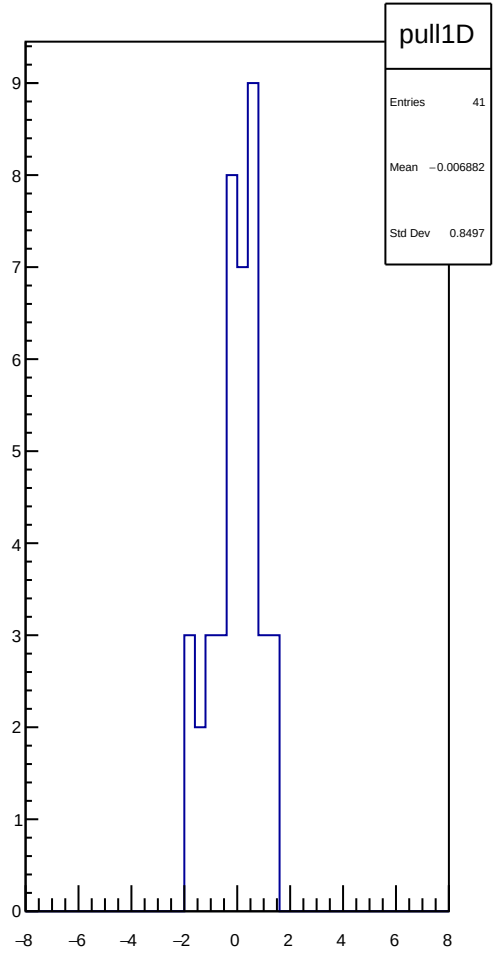

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.95 / 40
p0 144.7 ± 3.886
pull
Entries 41
Mean 1288
Std Dev 0
pull1D
Entries 41
Mean 0.001611
Std Dev 0.8404

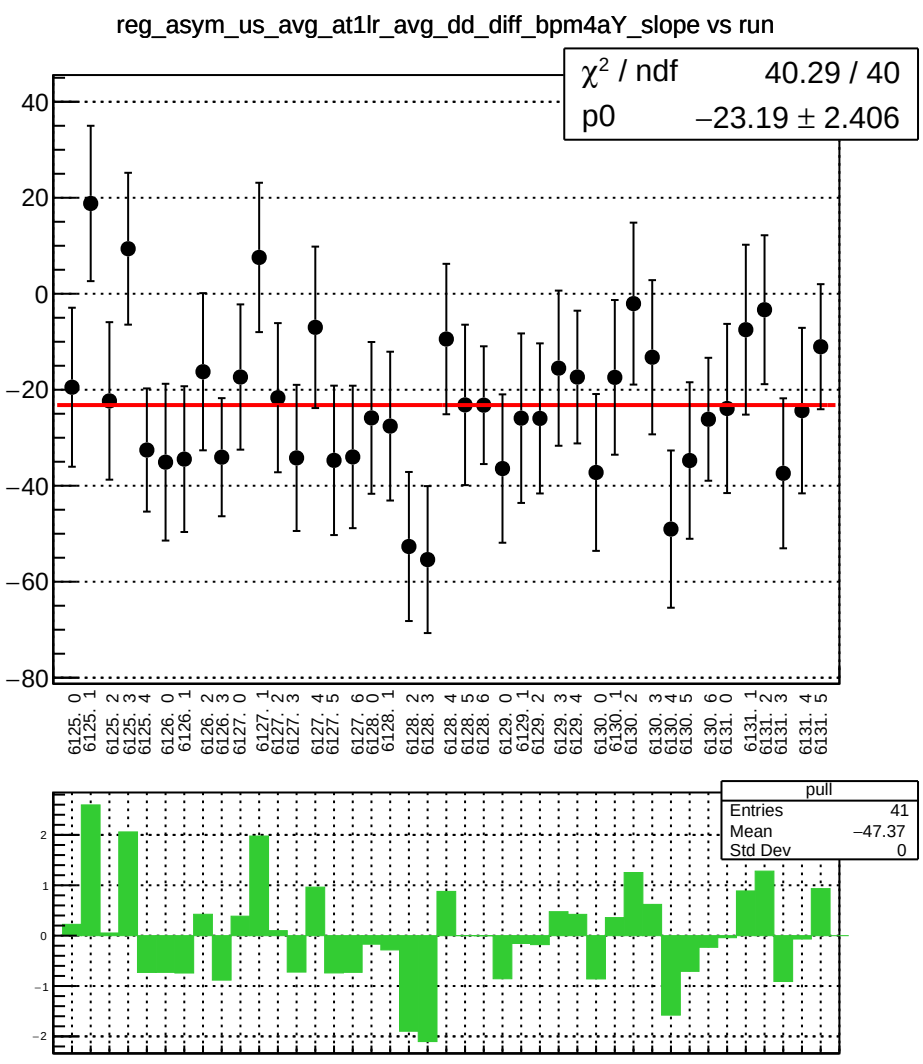

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 43.95 / 40
p0 −55.41 ± 3.644
pull
Entries 41
Mean 841.8
Std Dev 0
pull1D
Entries 41
Mean 0.002054
Std Dev 1.035

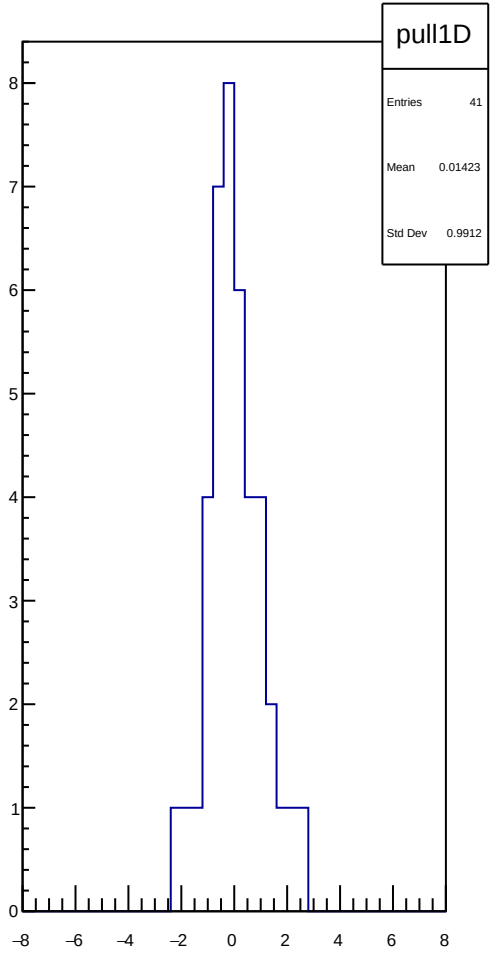

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 32.59 / 40
p0 −61.58 ± 0.3052
pull
Entries 41
Mean −152.9
Std Dev 0

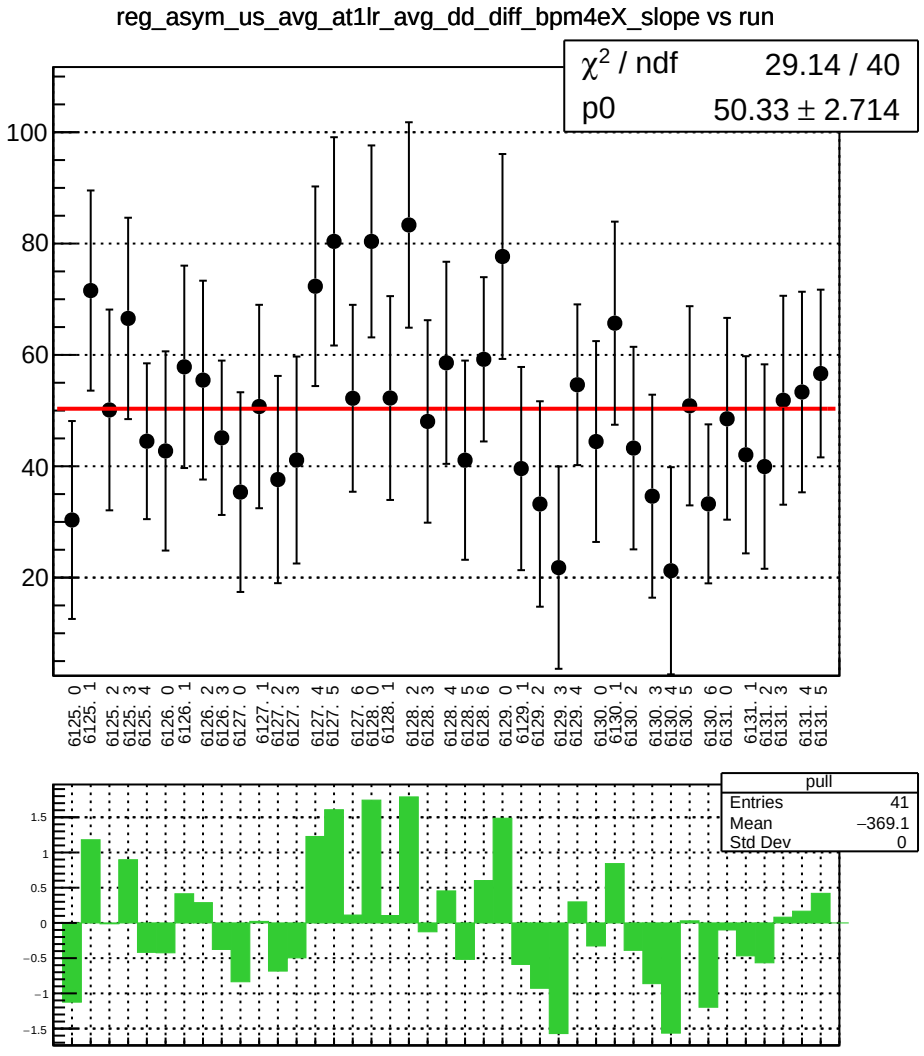

pull1D
Entries 41
Mean 0.008645
Std Dev 0.8916

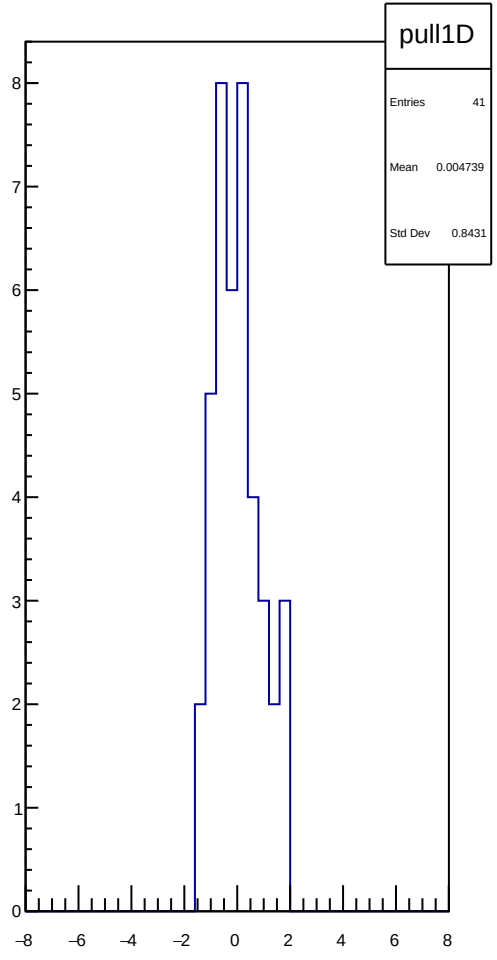

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 29.61 / 40
p0 −30.03 ± 2.227
pull
Entries 41
Mean −289.8
Std Dev 0

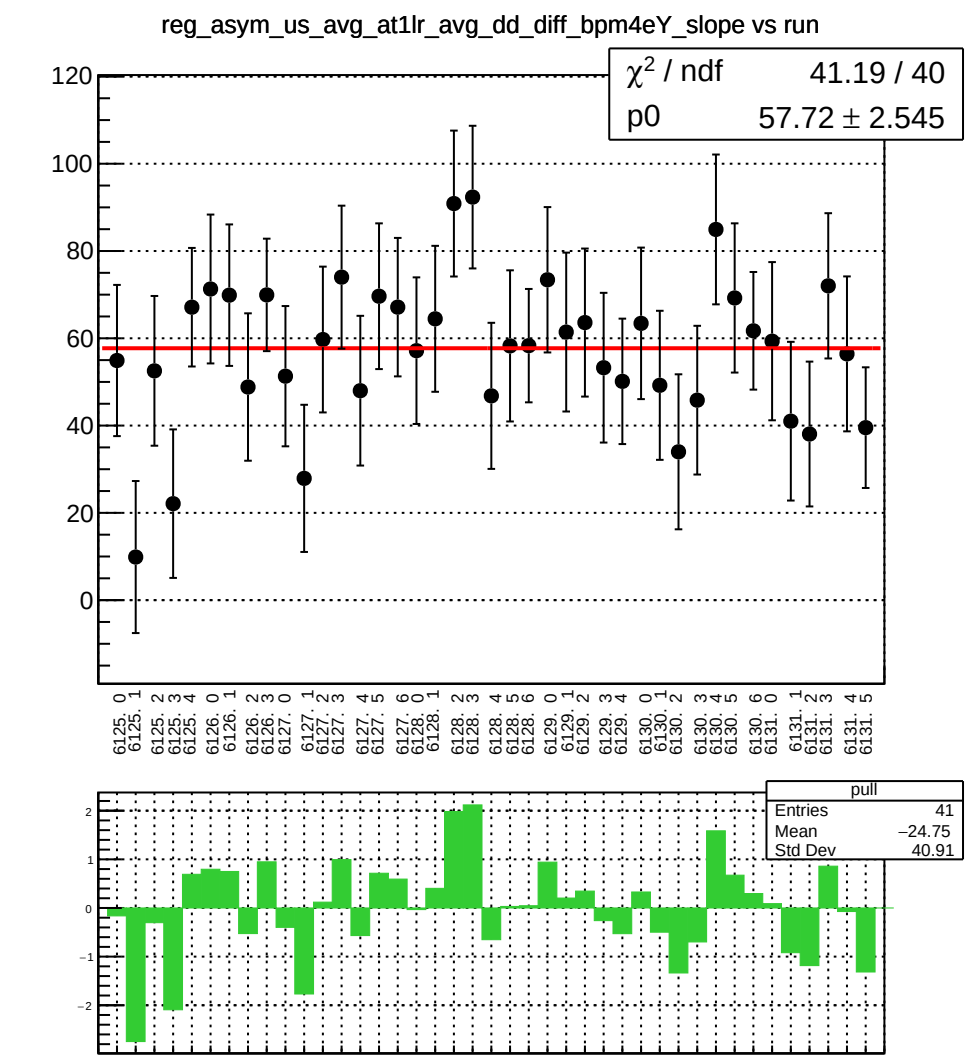

pull1D
Entries 41
Mean −0.006882
Std Dev 0.8497

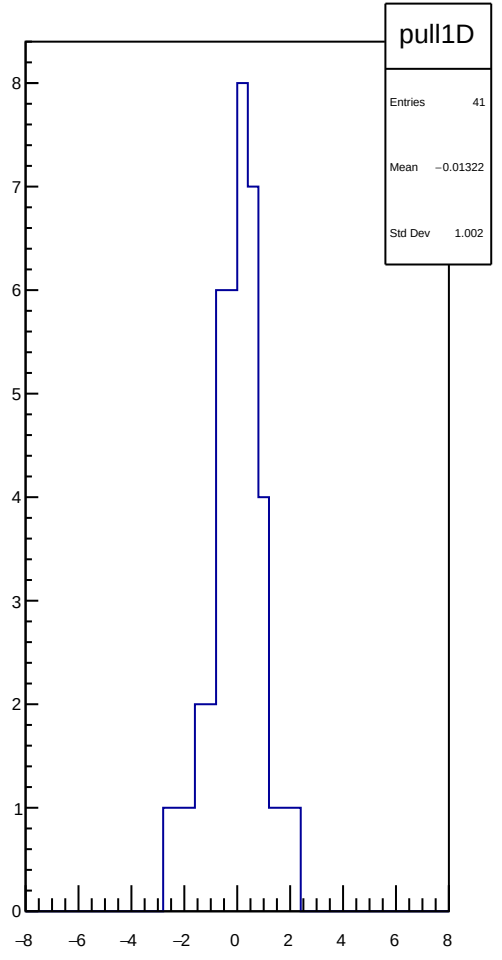

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 40.29 / 40
p0 −23.19 ± 2.406
pull
Entries 41
Mean −47.37
Std Dev 0

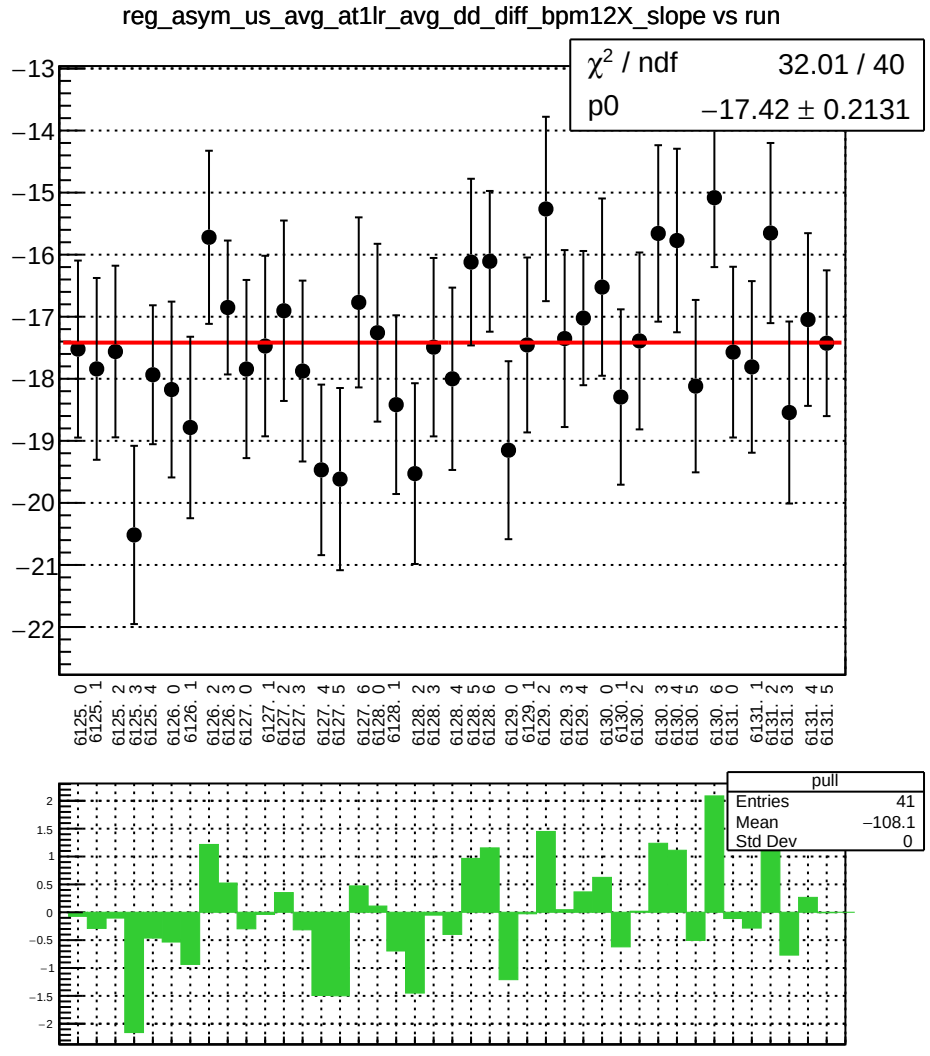

pull1D
Entries 41
Mean 0.01423
Std Dev 0.9912

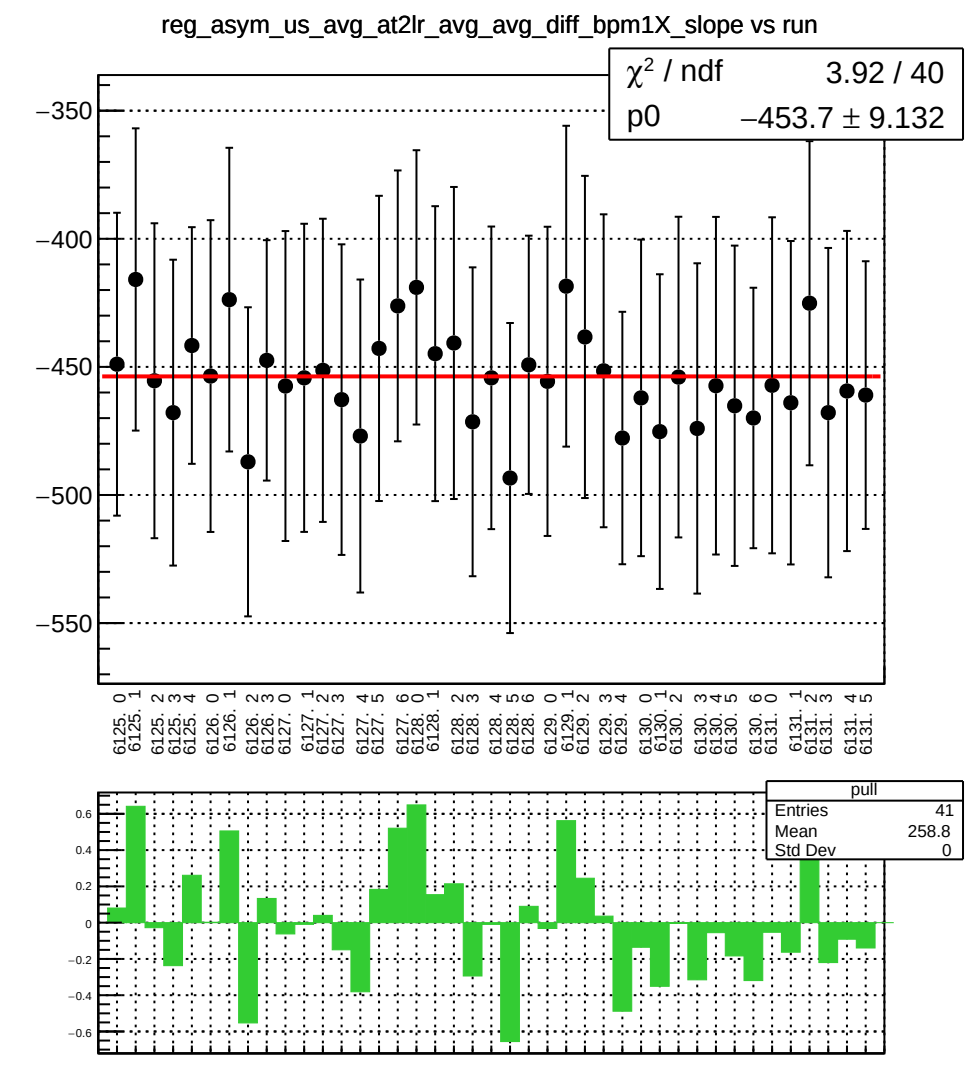

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.14 / 40
p0 50.33 ± 2.714
pull
Entries 41
Mean −369.1
Std Dev 0

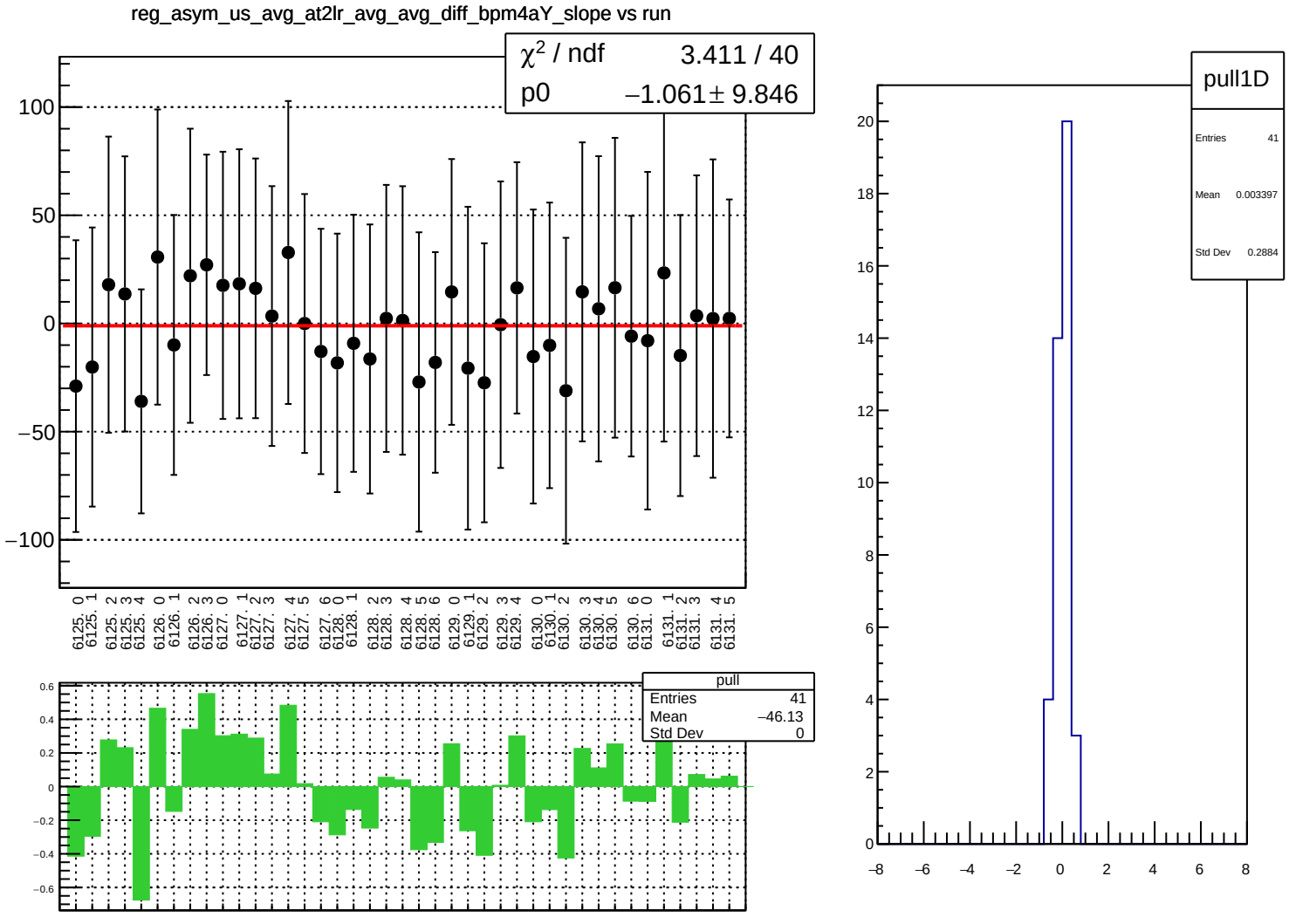

pull1D
Entries 41
Mean 0.004739
Std Dev 0.8431

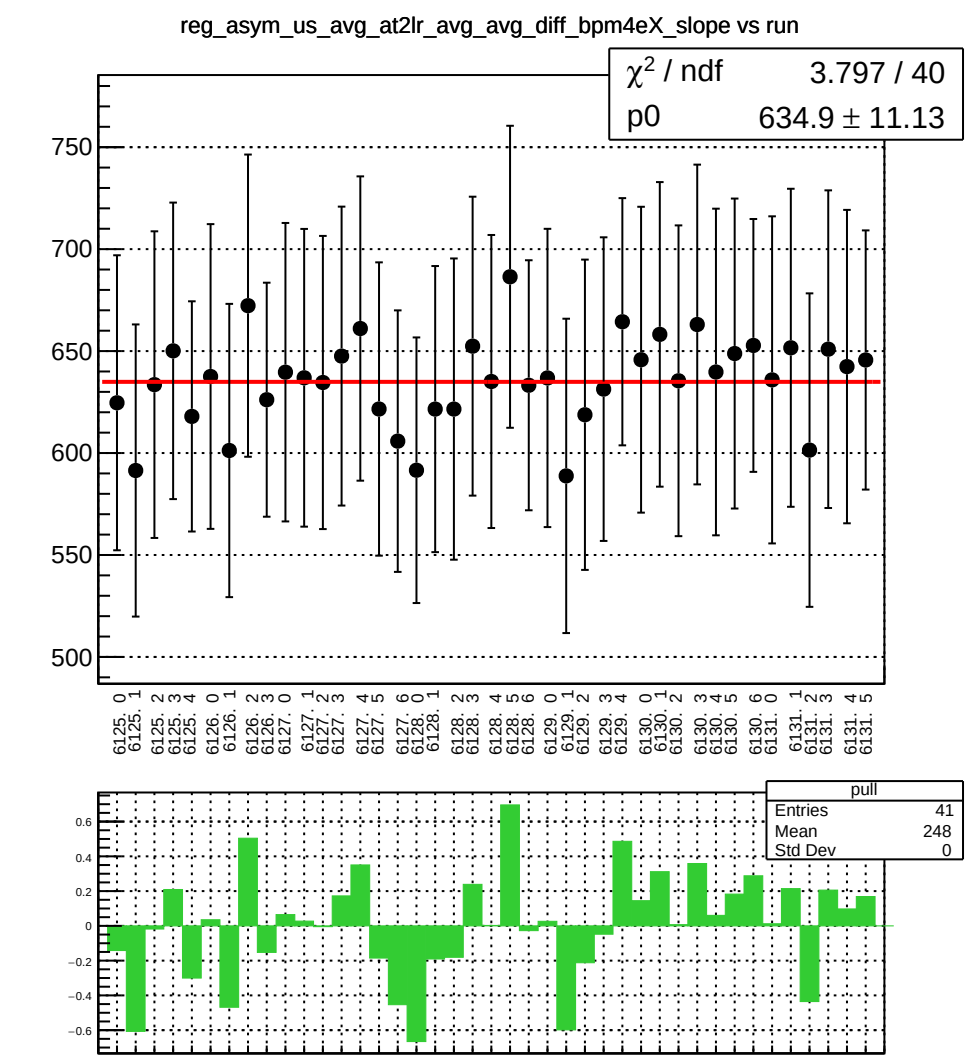

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.19 / 40
p0 57.72 ± 2.545
120
100
80
60
40
20
0
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −24.75
Std Dev 40.91
2
1
0
−1
−2

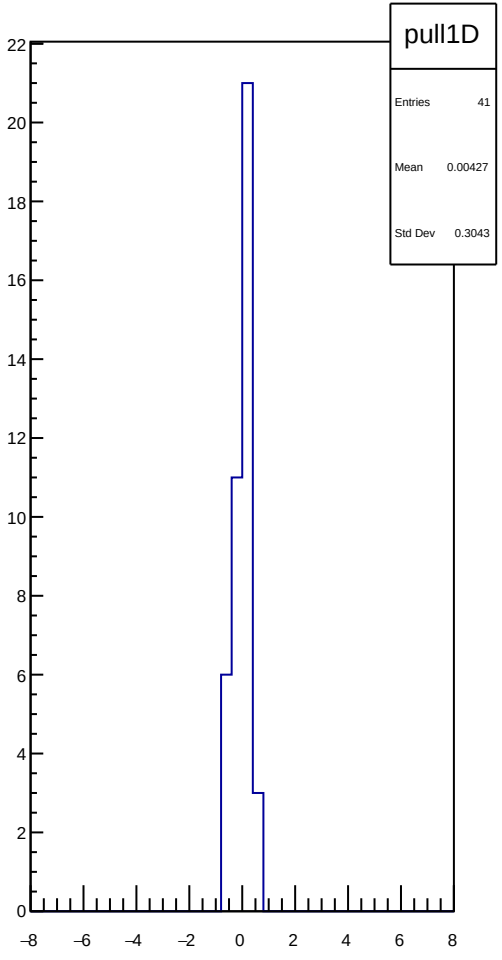

pull1D
Entries 41
Mean −0.01322
Std Dev 1.002
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

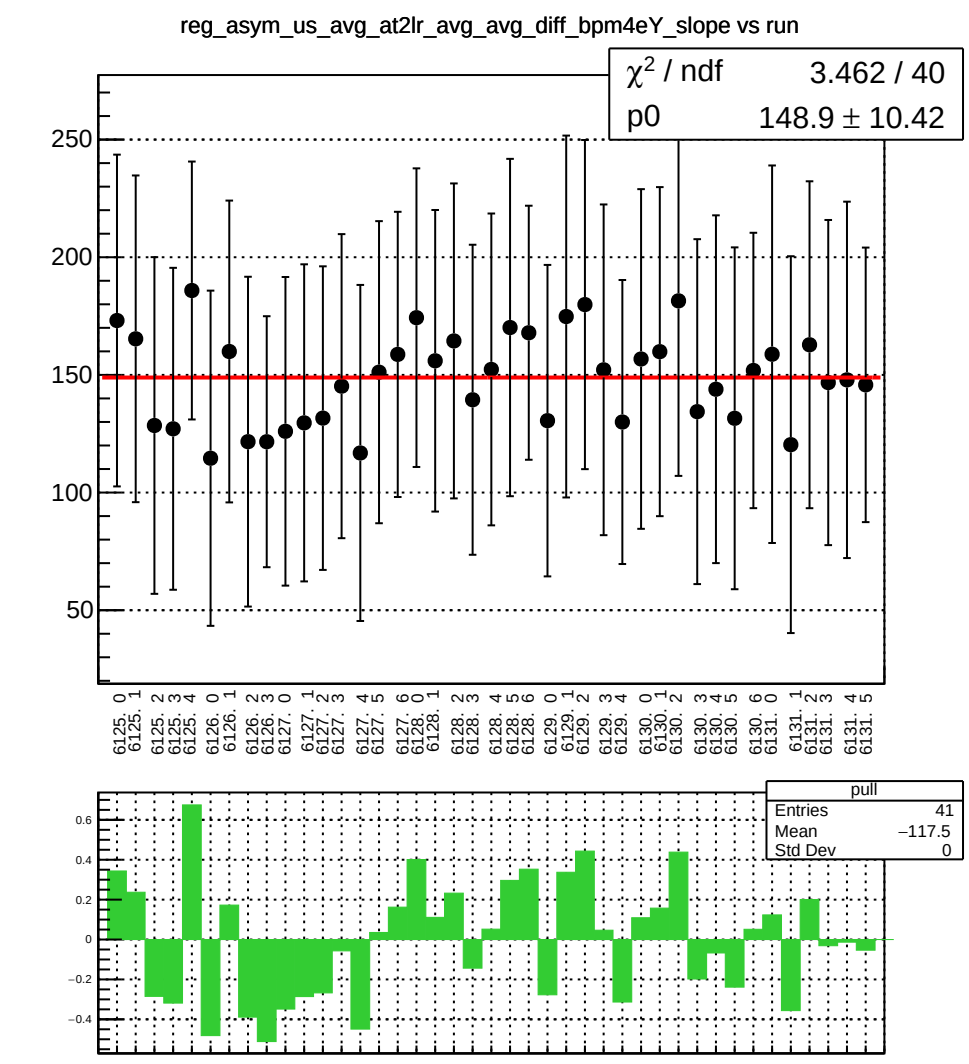

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 32.01 / 40
p0 −17.42 ± 0.2131
pull
Entries 41
Mean −108.1
Std Dev 0
pull1D
Entries 41
Mean −0.02674
Std Dev 0.8832

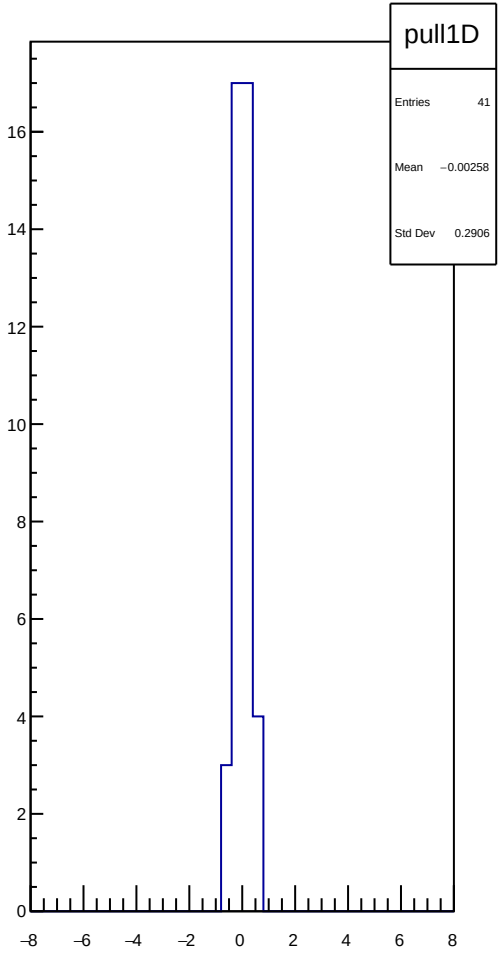

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 3.92 / 40
p0 −453.7 ± 9.132
−350
−400
−450
−500
−550
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 258.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean −0.003825
Std Dev 0.3092
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

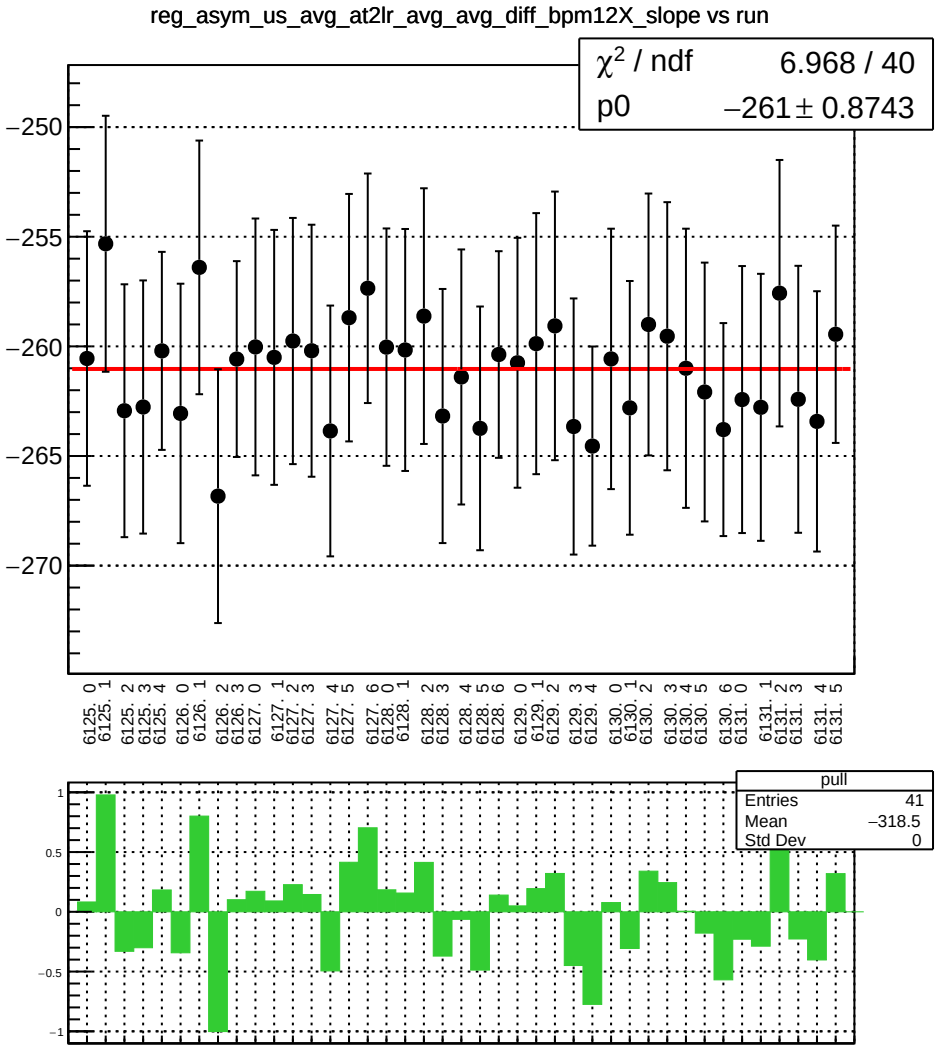

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.411 / 40
p0 −1.061± 9.846
100
50
0
−50
−100
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −46.13
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean 0.003397
Std Dev 0.2884
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

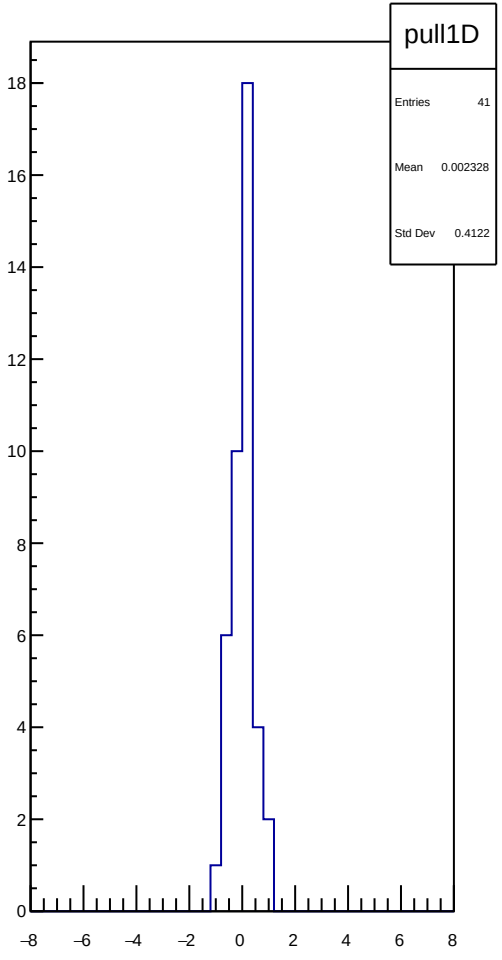

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.797 / 40
p0 634.9 ± 11.13
750
700
650
600
550
500
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 248
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

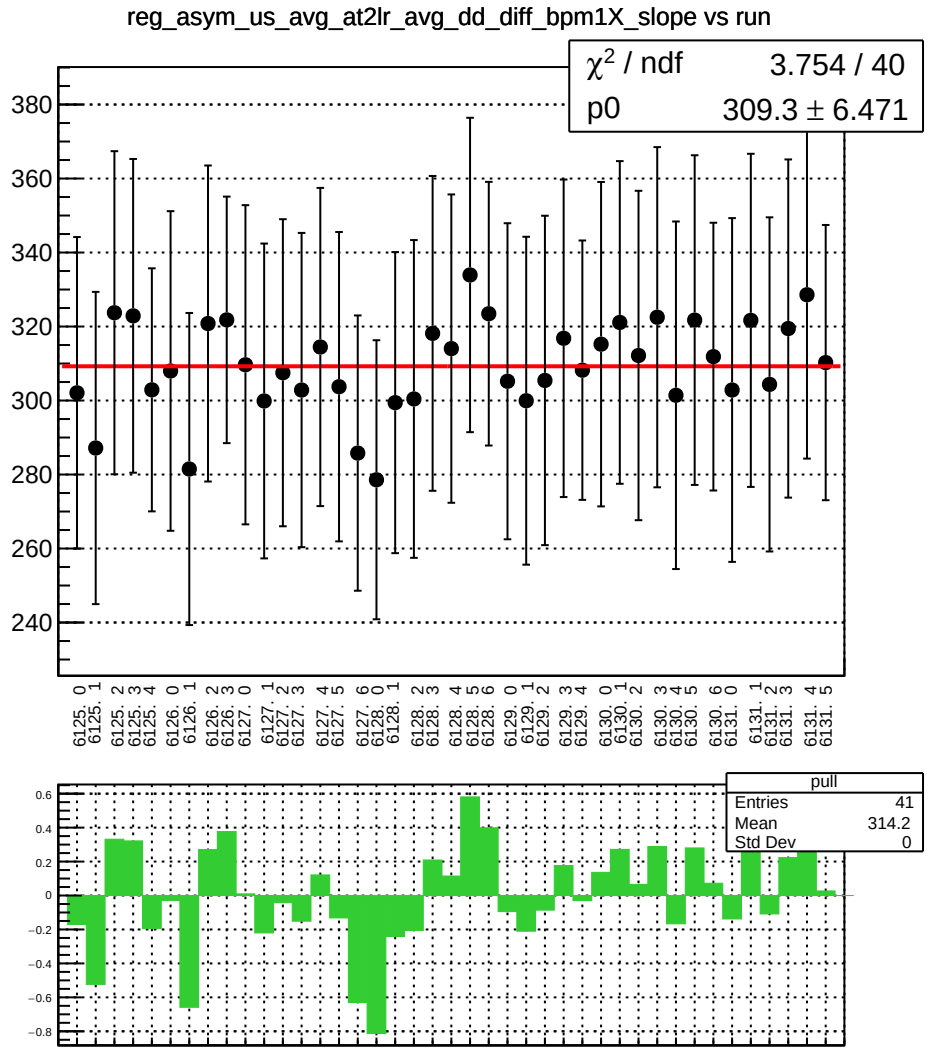

pull1D
Entries 41
Mean 0.00427
Std Dev 0.3043
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

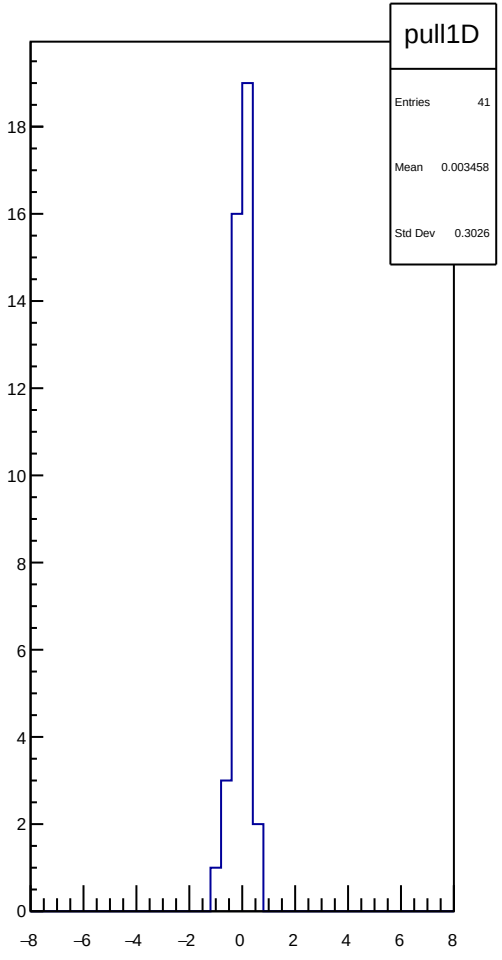

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.462 / 40
p0 148.9 ± 10.42
250
200
150
100
50
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −117.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

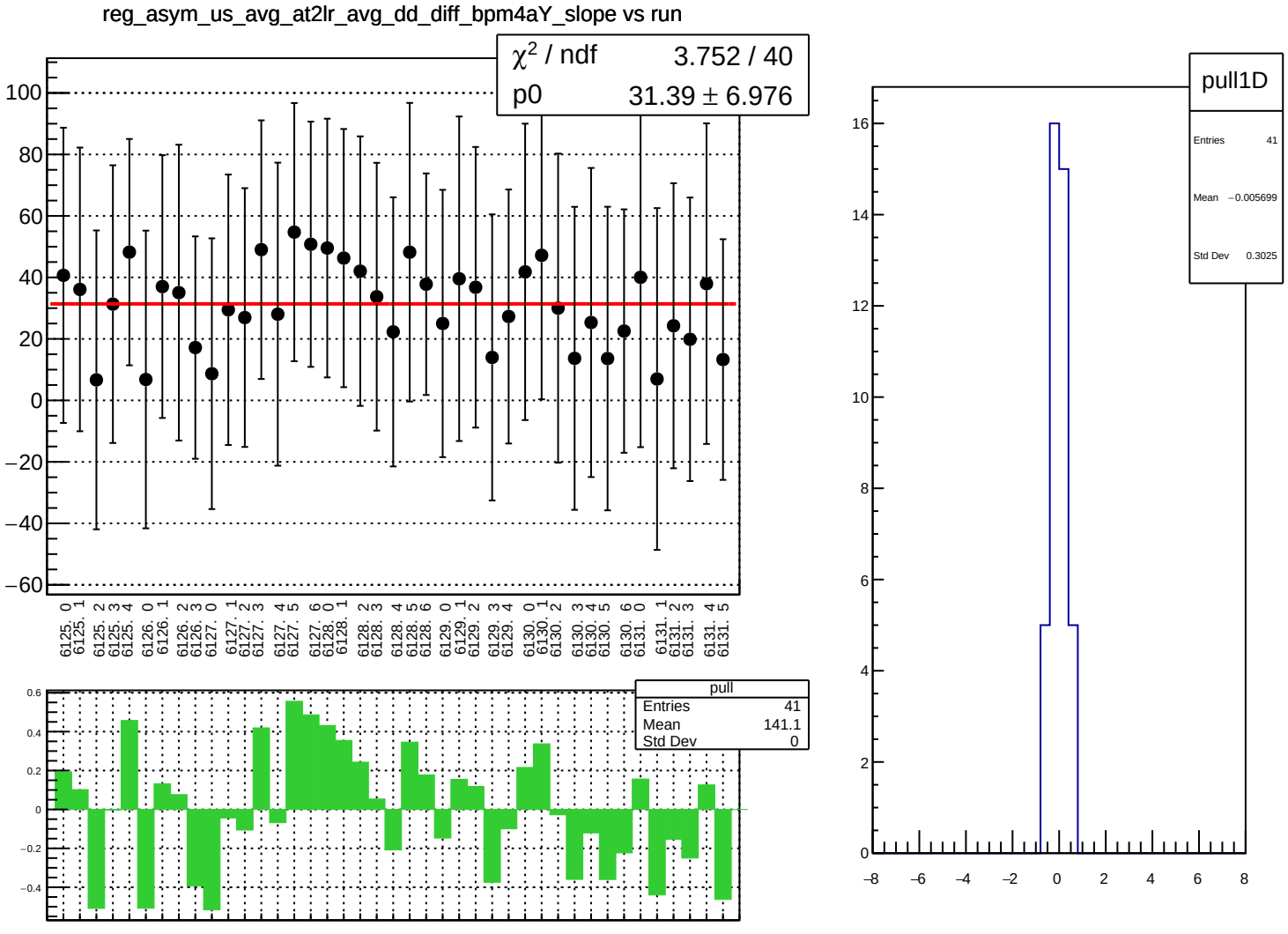

pull1D
Entries 41
Mean −0.00258
Std Dev 0.2906
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

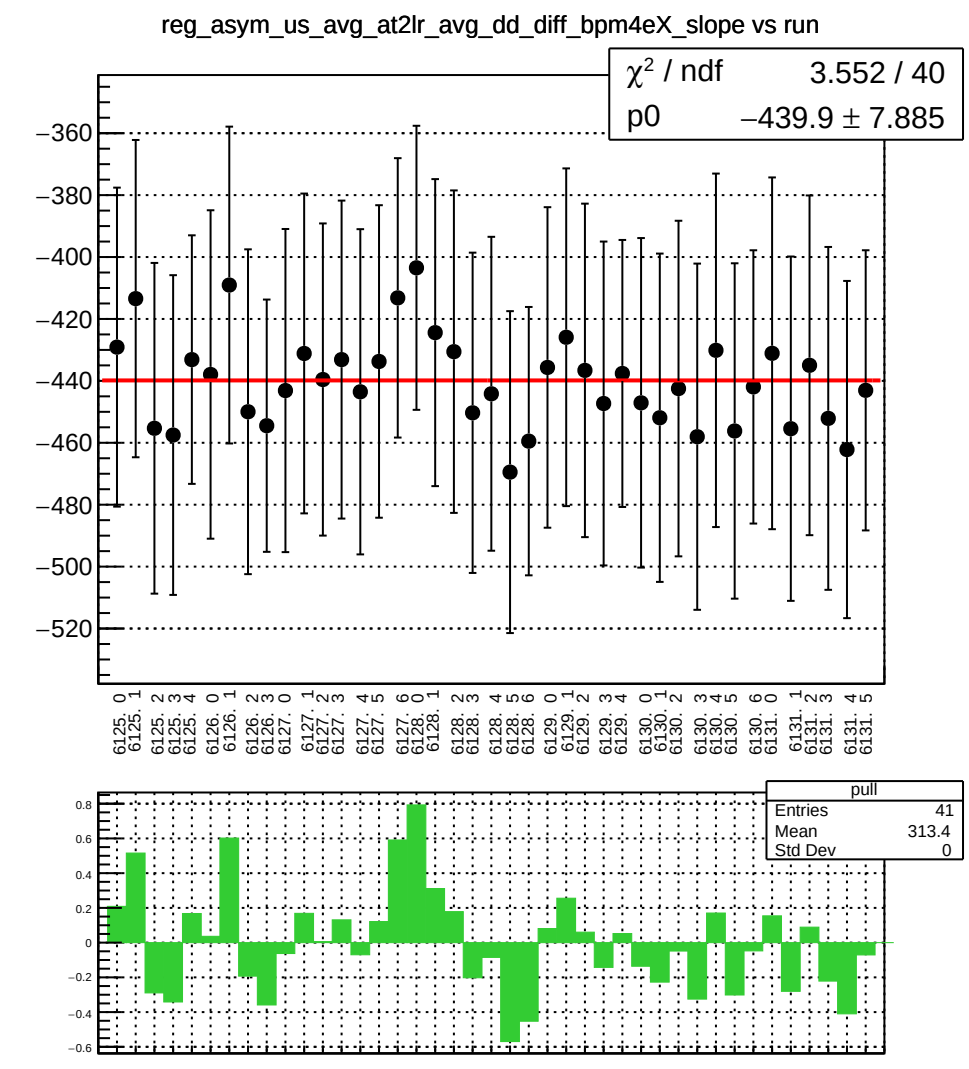

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 6.968 / 40
p0 −261 ± 0.8743
−250
−255
−260
−265
−270
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −318.5
Std Dev 0
1
0.5
0
−0.5
−1

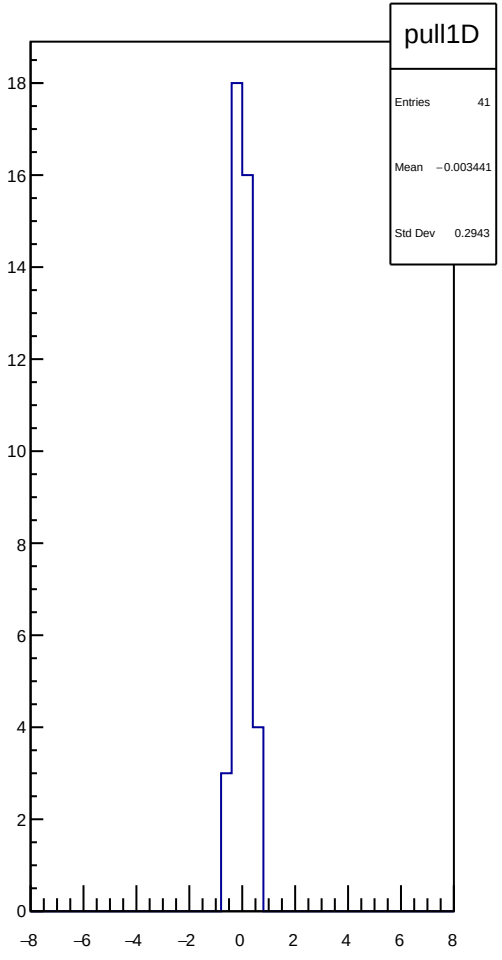

pull1D
Entries 41
Mean 0.002328
Std Dev 0.4122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

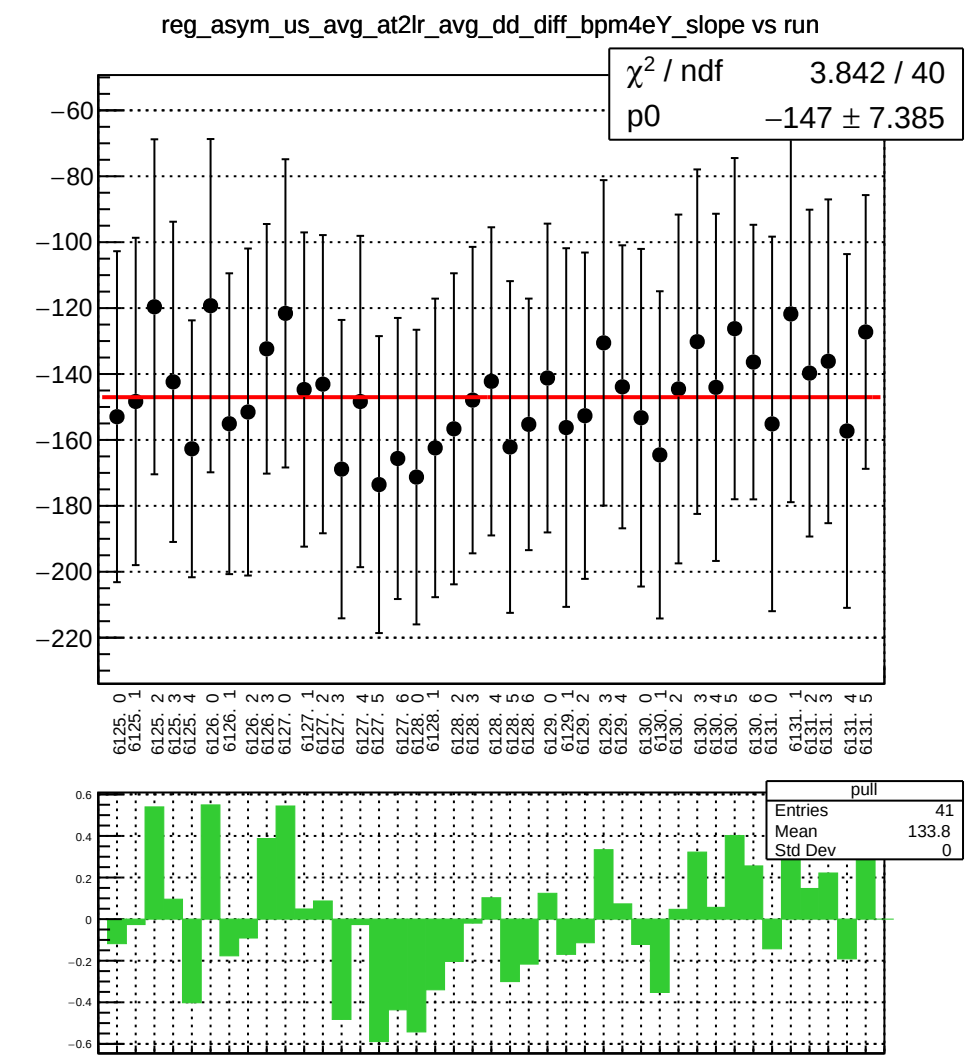

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 3.754 / 40
p0 309.3 ± 6.471
pull
Entries 41
Mean 314.2
Std Dev 0

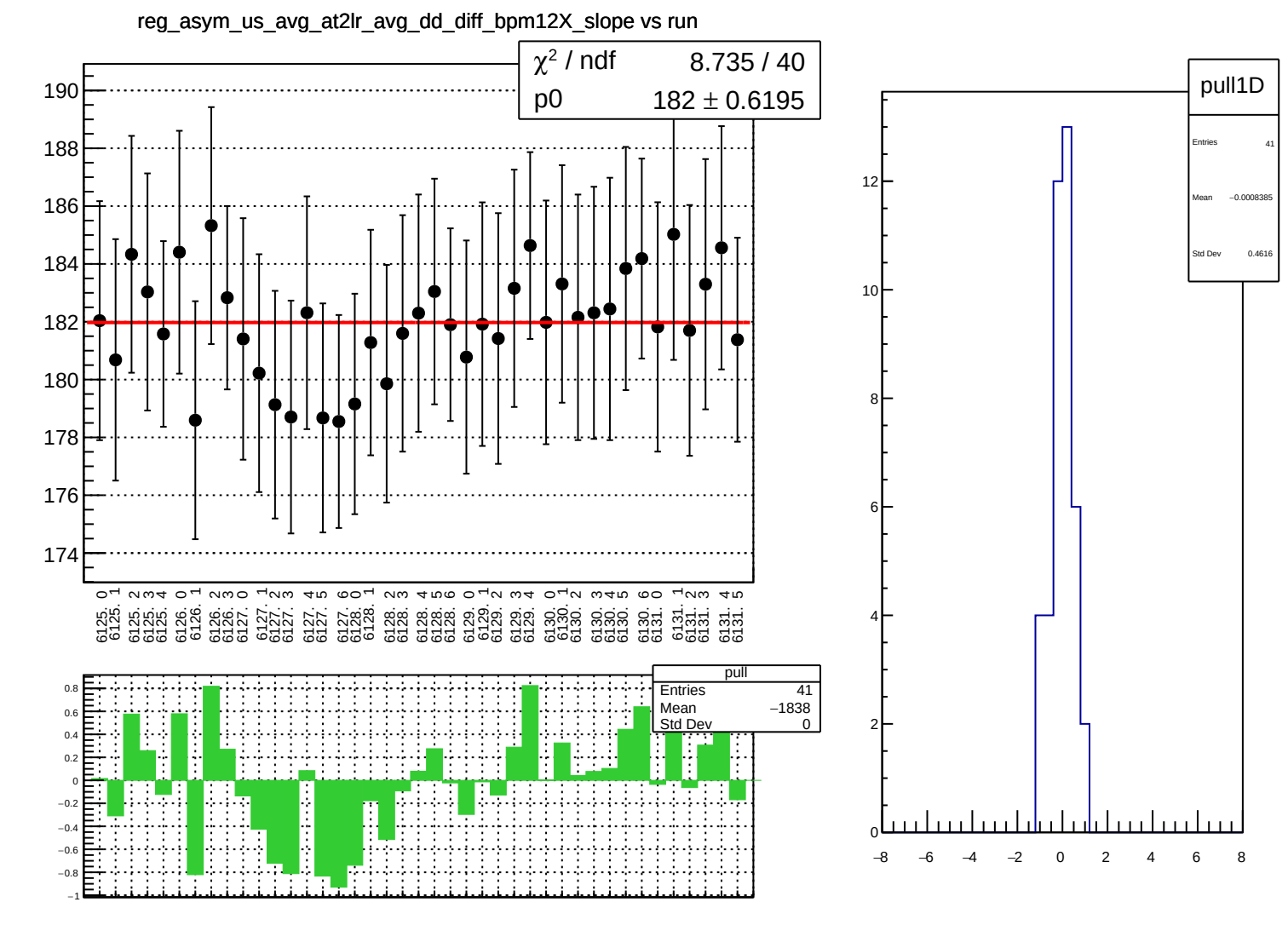

pull1D
Entries 41
Mean 0.003458
Std Dev 0.3026

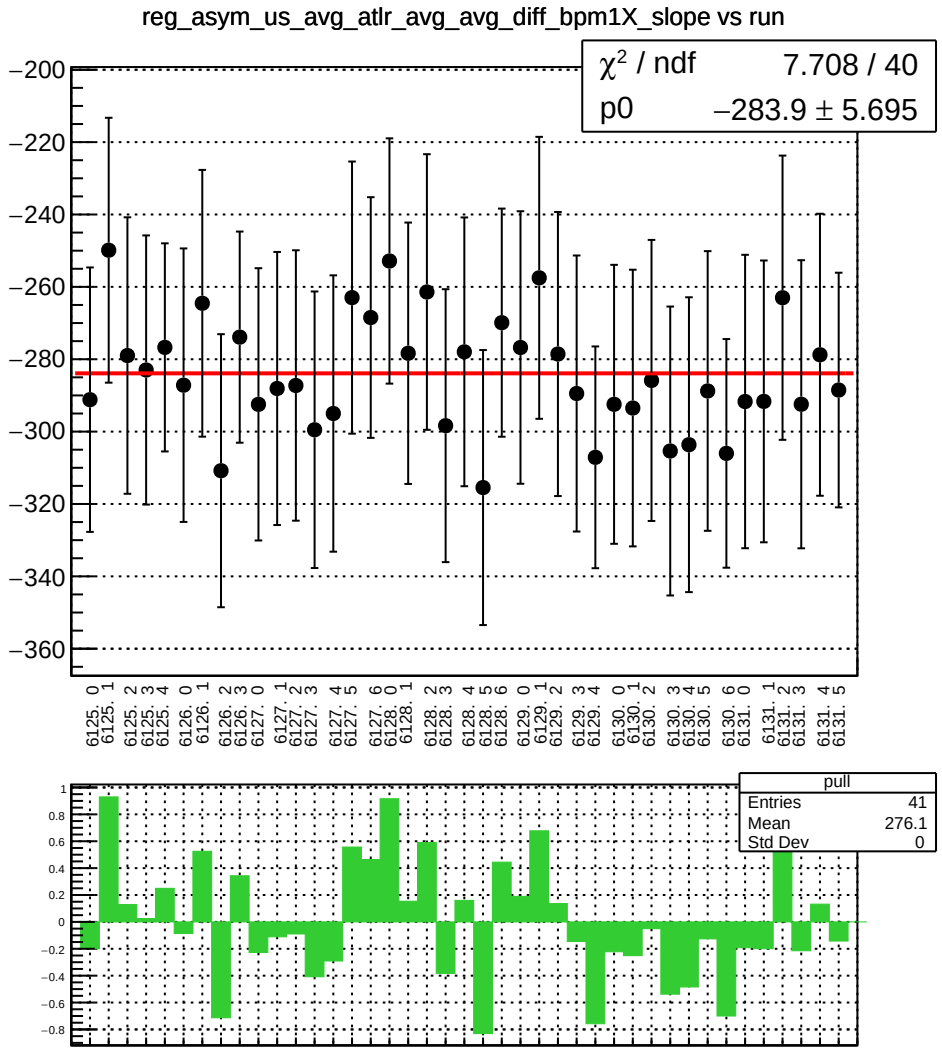

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 3.752 / 40
p0 31.39 ± 6.976
pull
Entries 41
Mean 141.1
Std Dev 0
pull1D
Entries 41
Mean −0.005699
Std Dev 0.3025

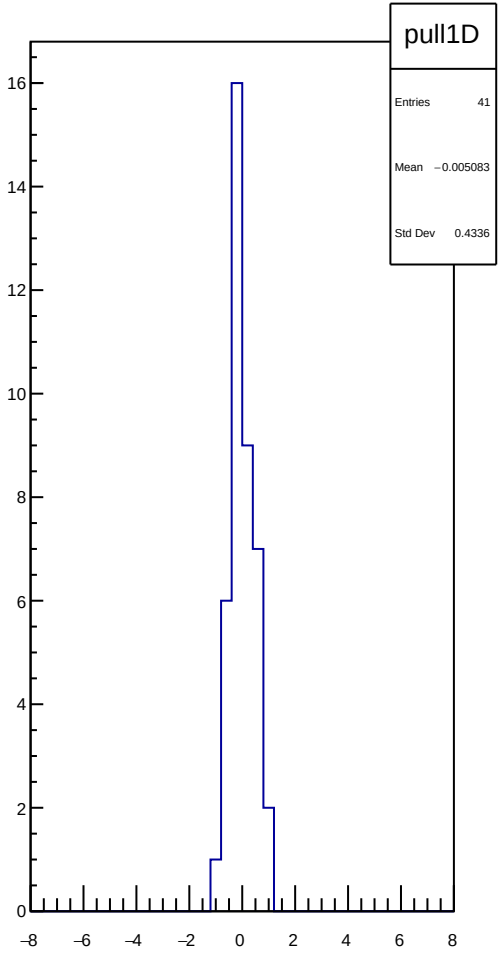

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.552 / 40
p0 −439.9 ± 7.885
−360
−380
−400
−420
−440
−460
−480
−500
−520
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 313.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

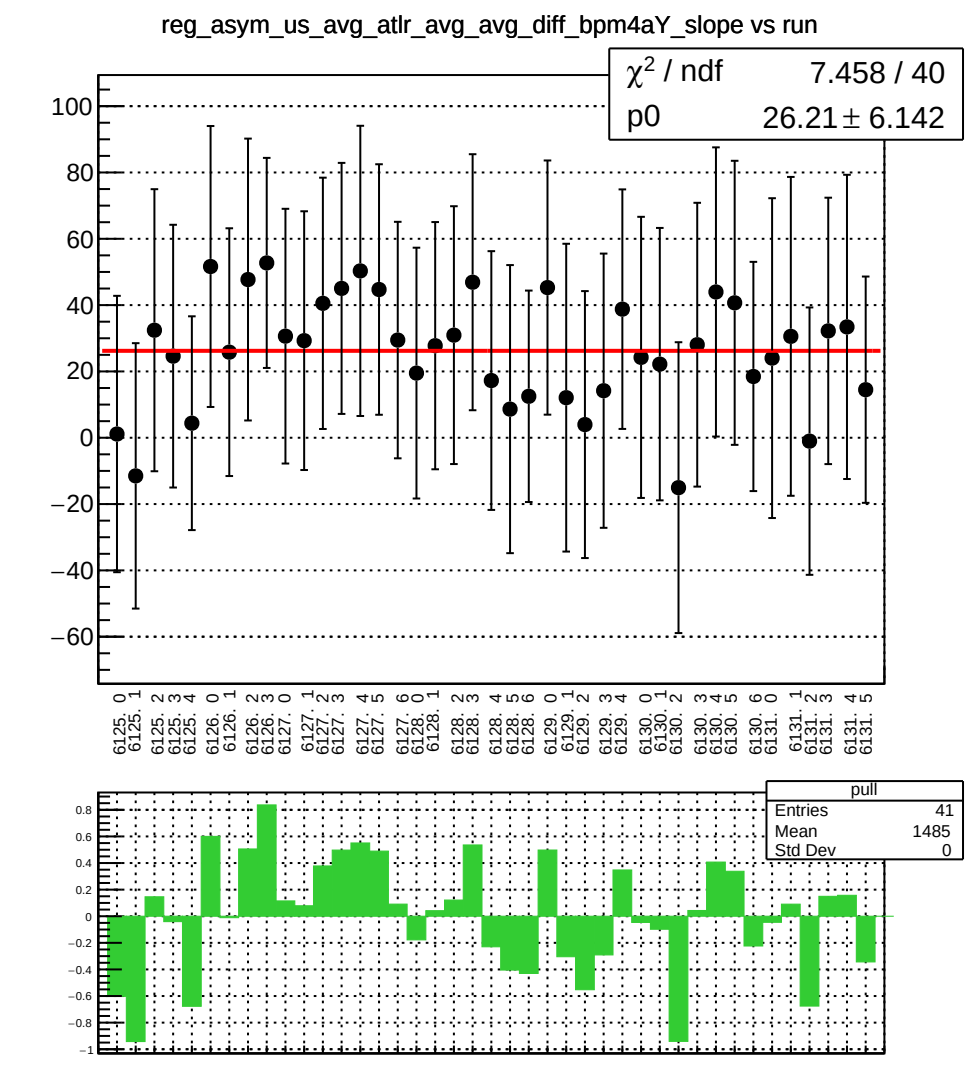

pull1D
Entries 41
Mean −0.003441
Std Dev 0.2943
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

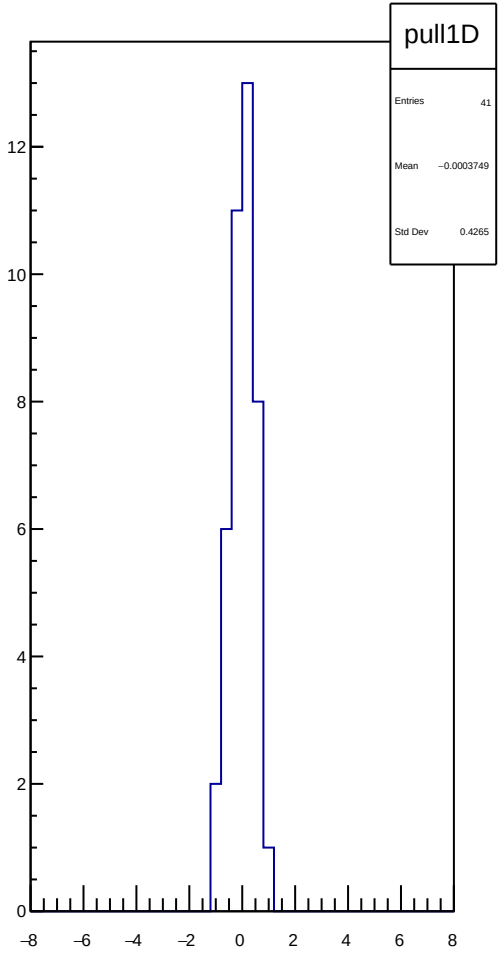

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.842 / 40
p0 −147 ± 7.385
pull
Entries 41
Mean 133.8
Std Dev 0
pull1D
Entries 41
Mean 0.004825
Std Dev 0.3061

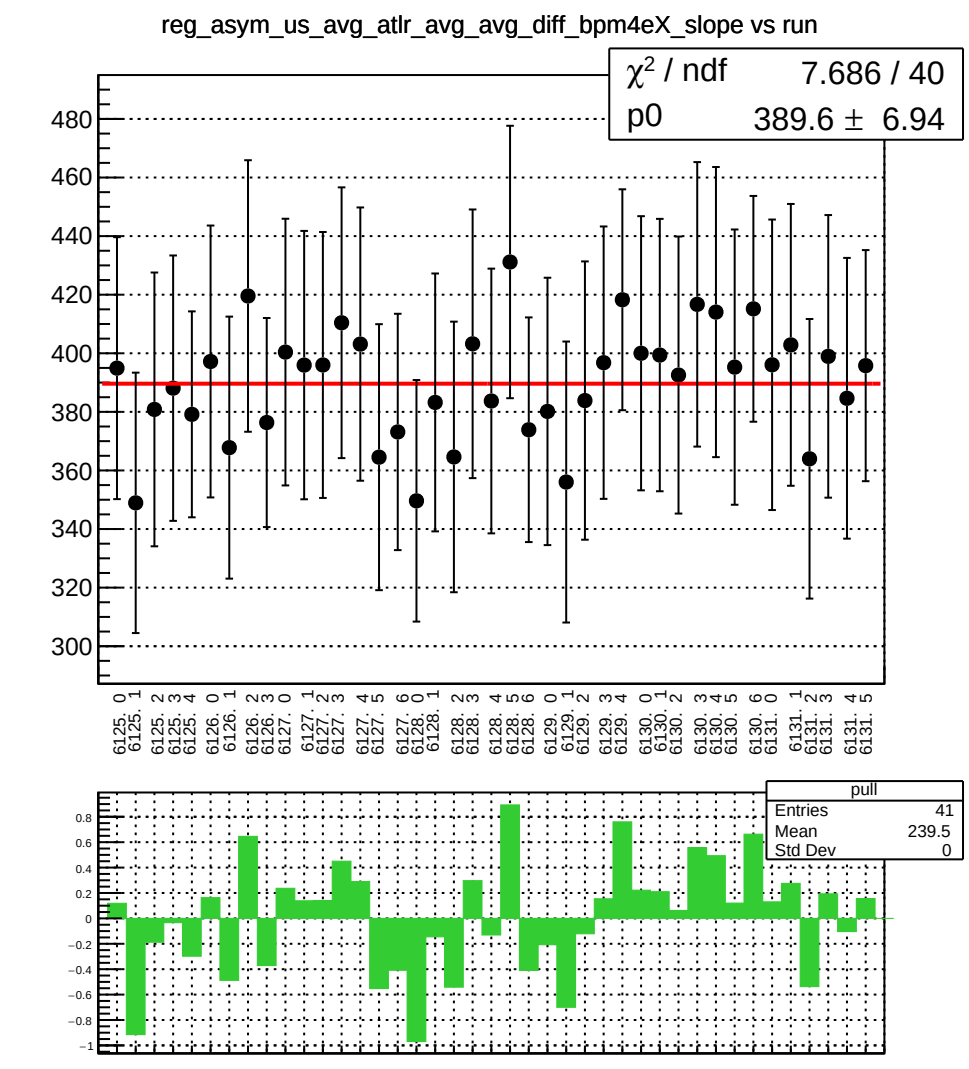

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 8.735 / 40
p0 182 ± 0.6195
pull
Entries 41
Mean −1838
Std Dev 0
pull1D
Entries 41
Mean −0.0008385
Std Dev 0.4616

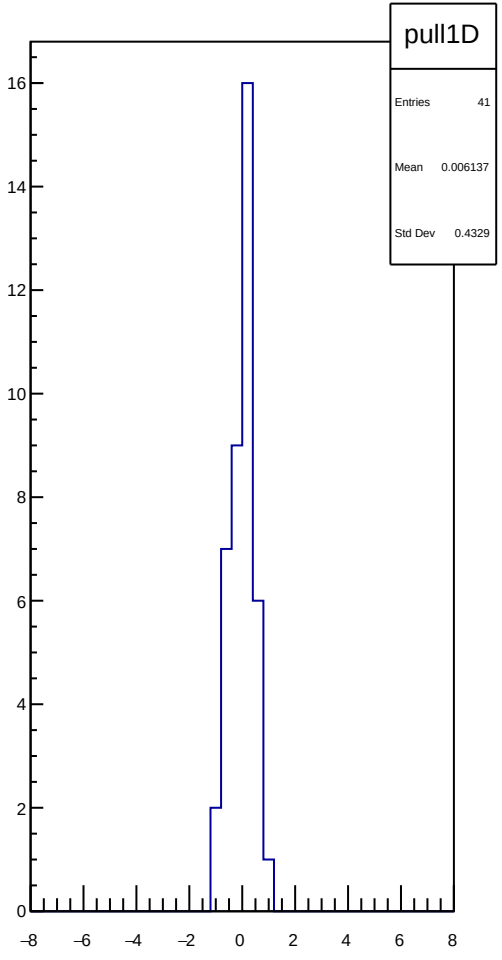

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 7.708 / 40
p0 −283.9 ± 5.695
pull
Entries 41
Mean 276.1
Std Dev 0

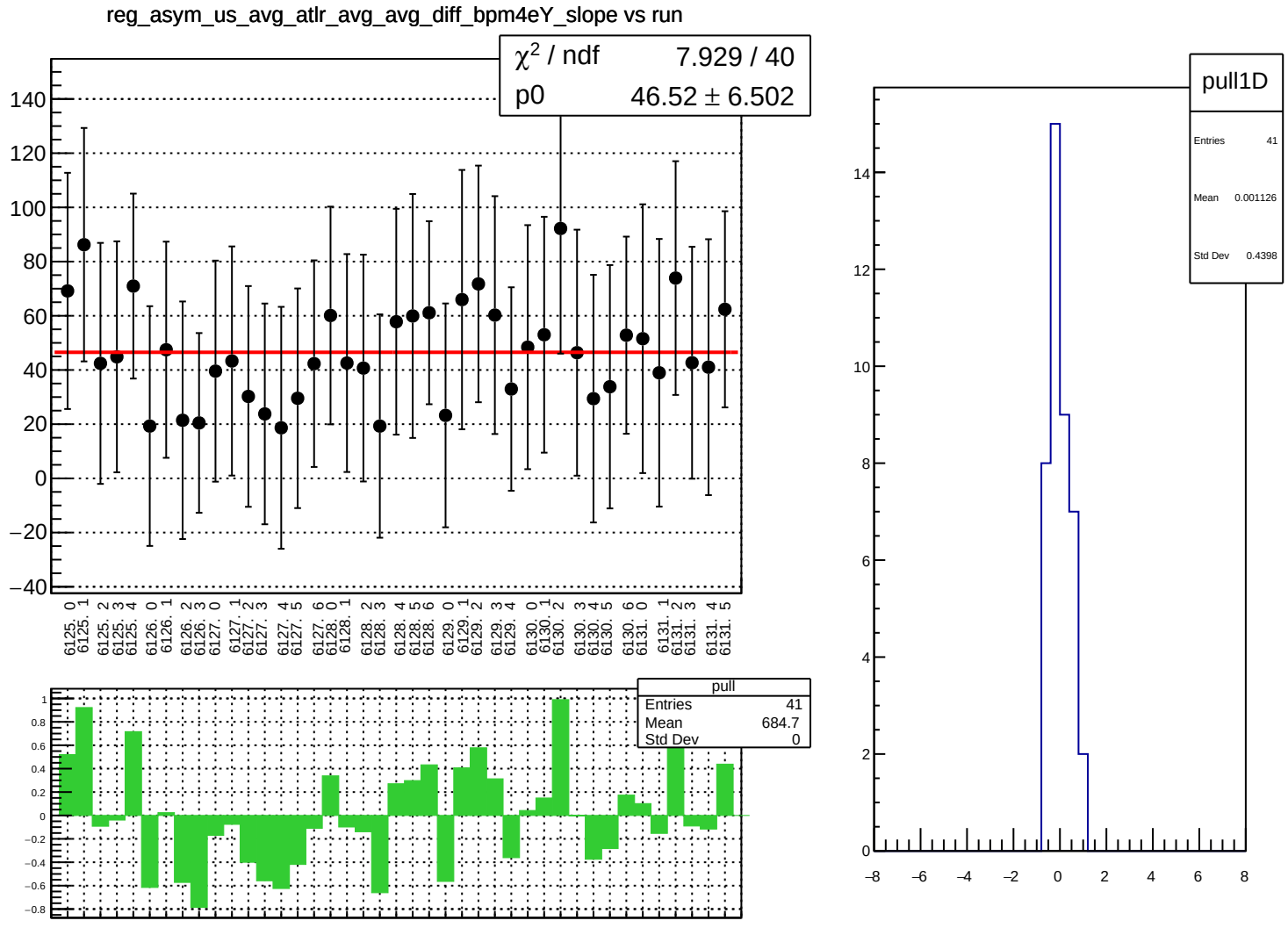

pull1D
Entries 41
Mean −0.005083
Std Dev 0.4336

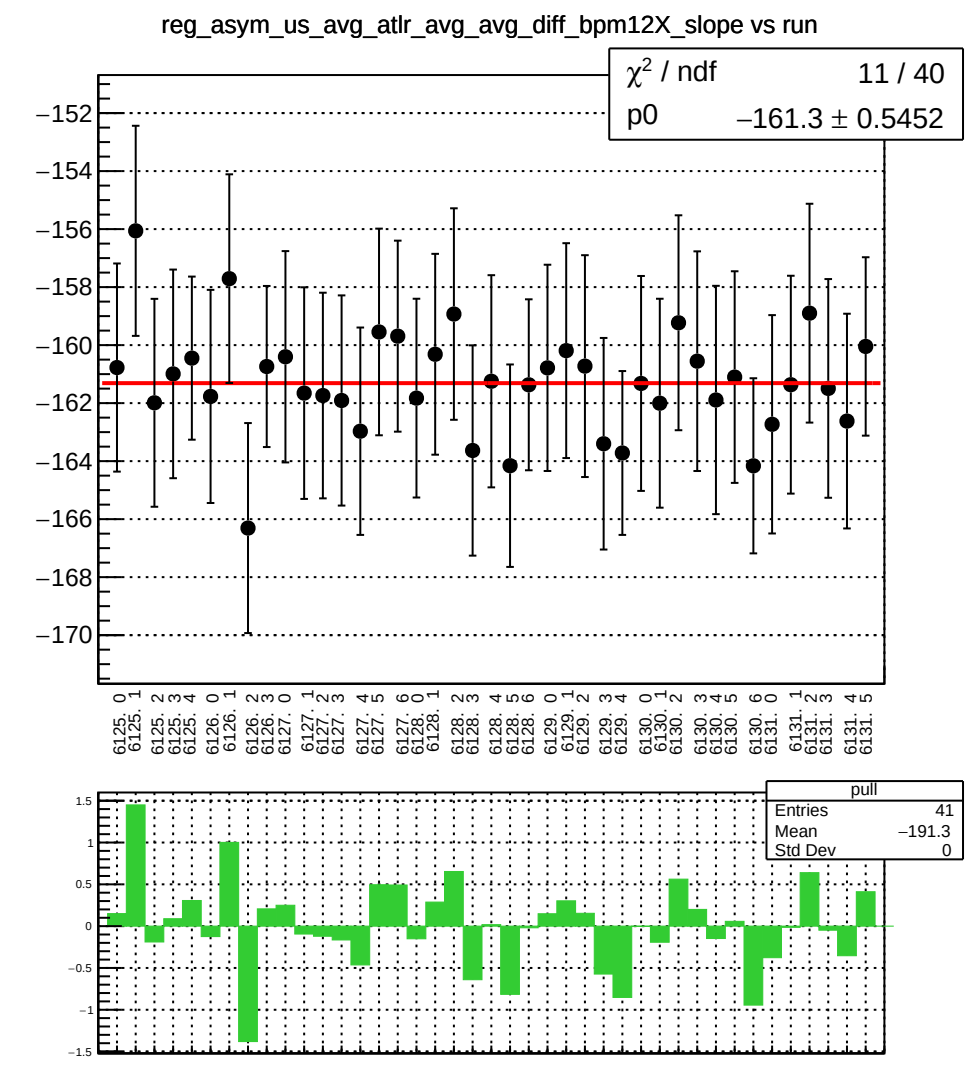

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.458 / 40
p0 26.21 ± 6.142
pull
Entries 41
Mean 1485
Std Dev 0

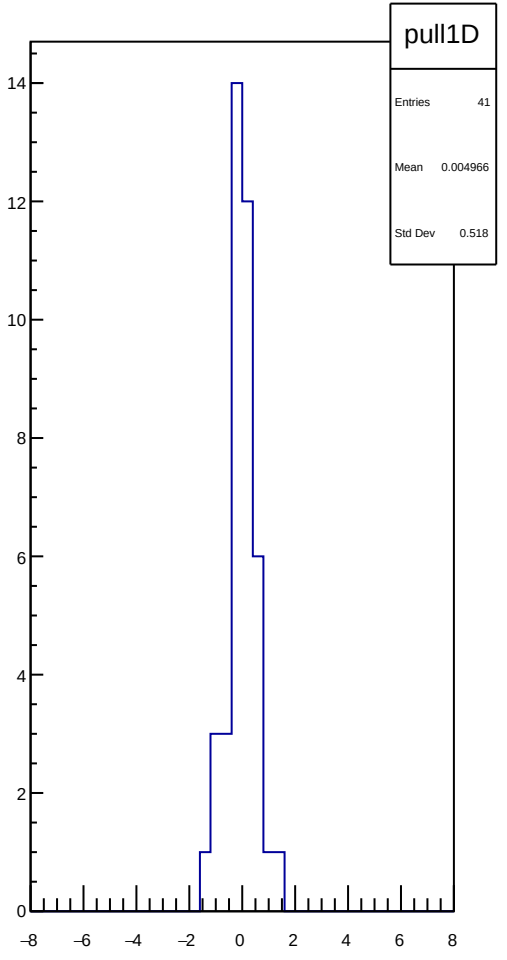

pull1D
Entries 41
Mean −0.0003749
Std Dev 0.4265

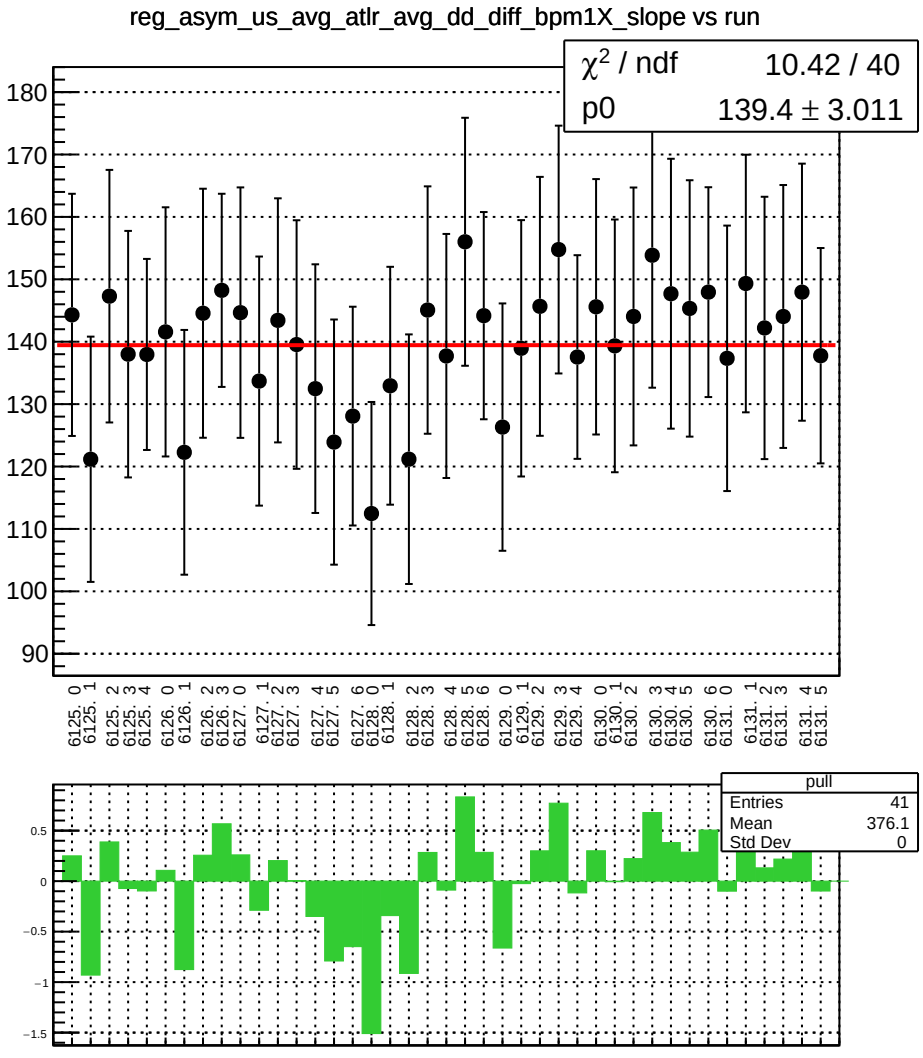

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.686 / 40
p0 389.6 ± 6.94
480
460
440
420
400
380
360
340
320
300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 239.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

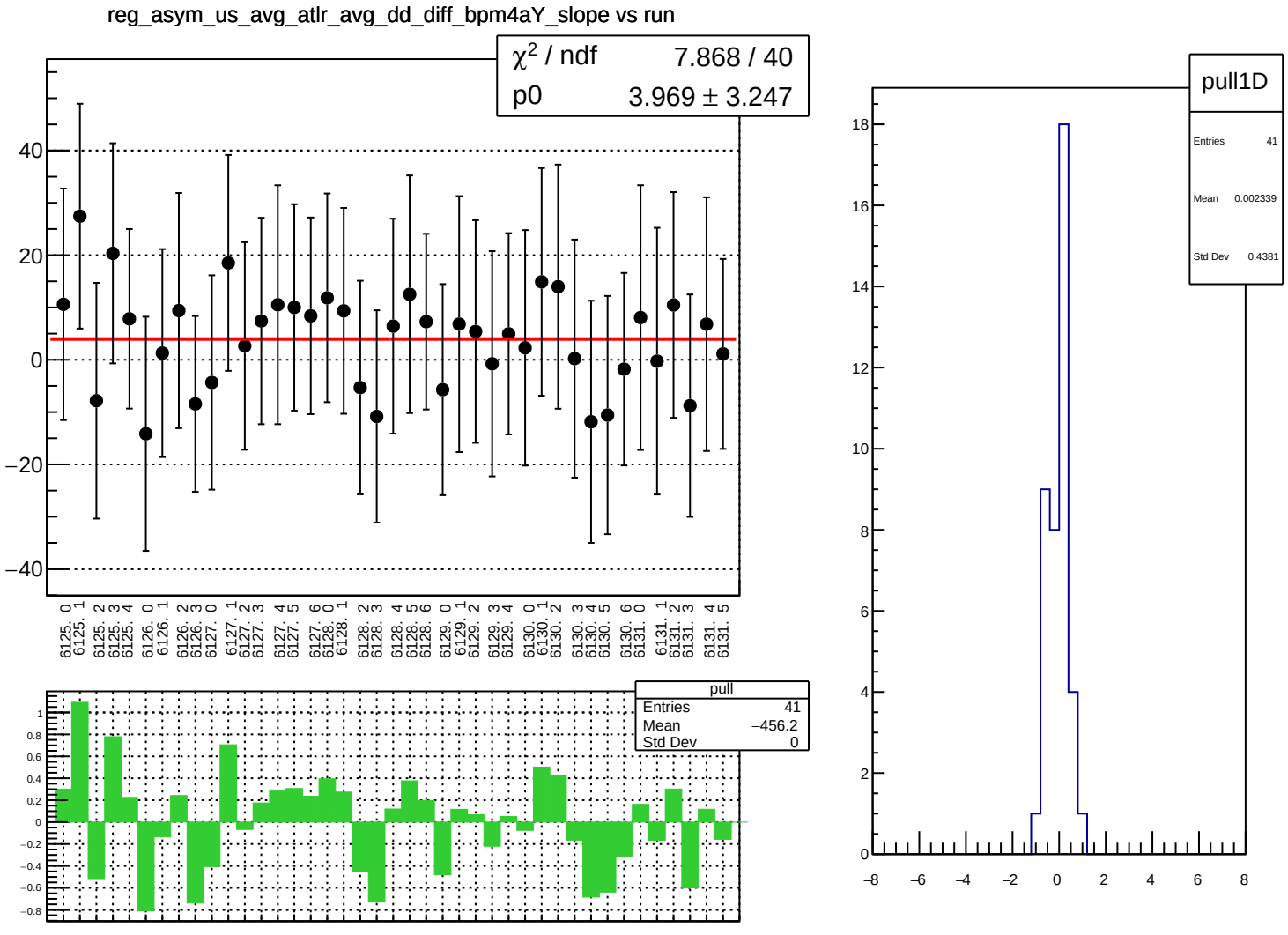

pull1D
Entries 41
Mean 0.006137
Std Dev 0.4329
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

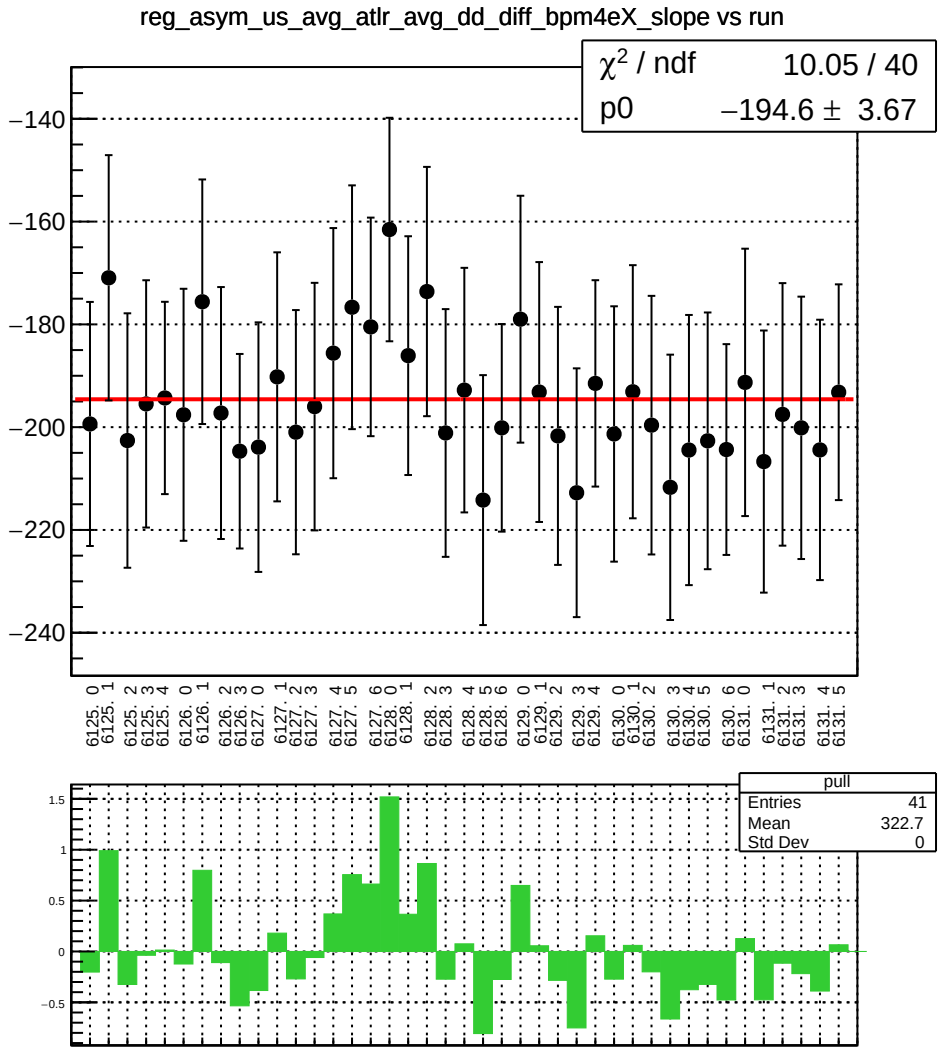

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.929 / 40
p0 46.52 ± 6.502
pull
Entries 41
Mean 684.7
Std Dev 0
pull1D
Entries 41
Mean 0.001126
Std Dev 0.4398

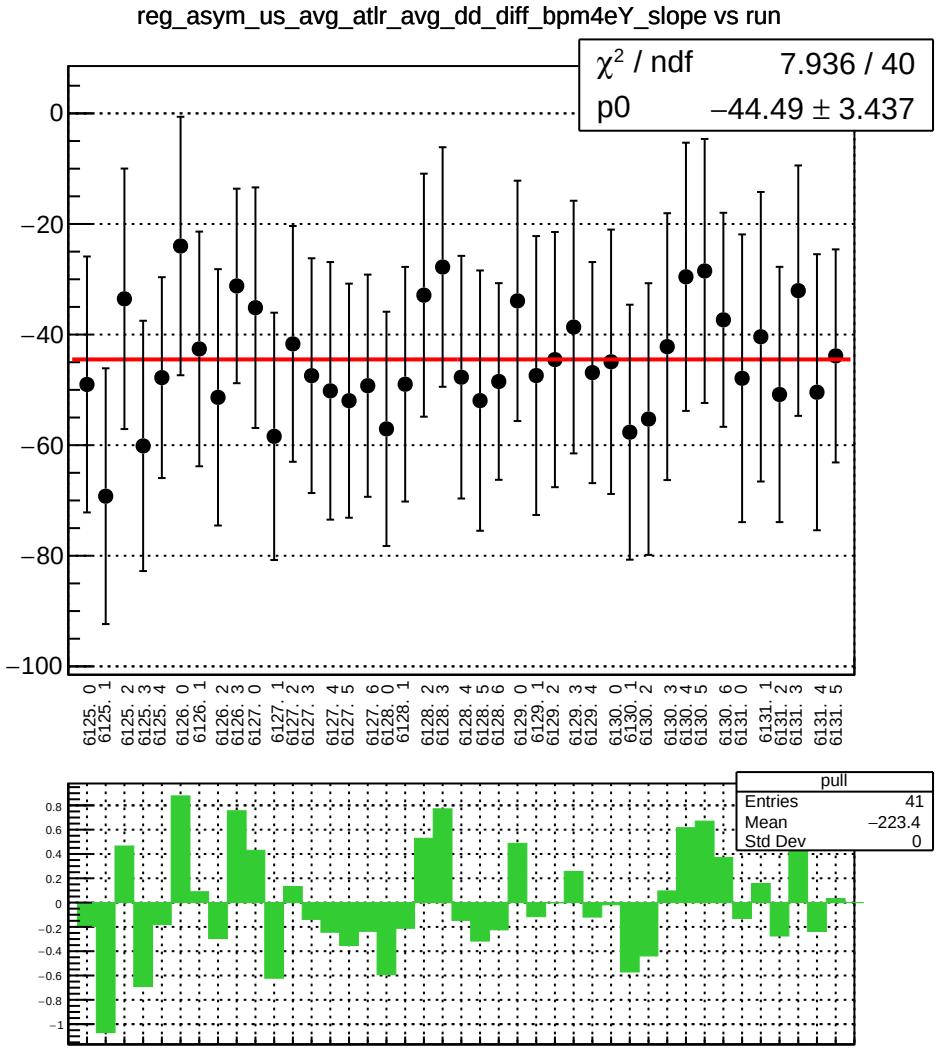

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 11 / 40
p0 −161.3 ± 0.5452
−152
−154
−156
−158
−160
−162
−164
−166
−168
−170
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −191.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

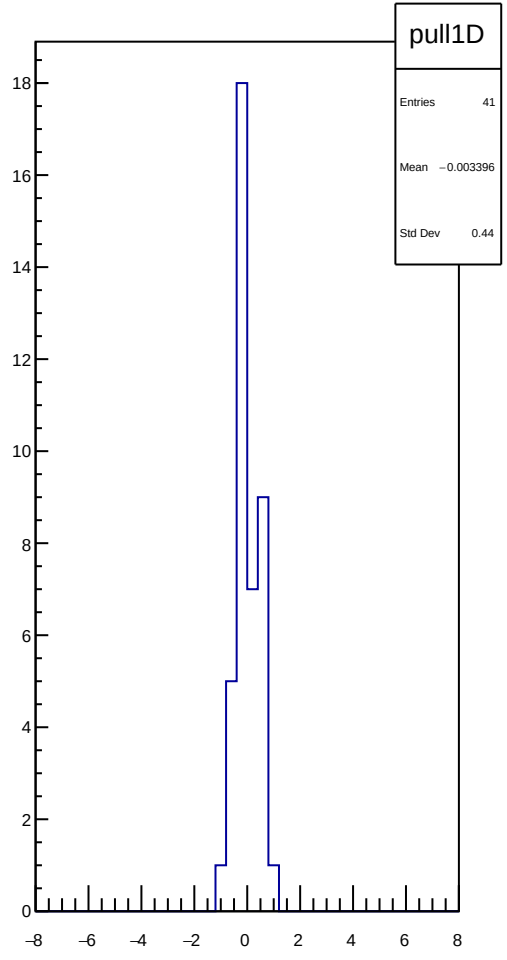

pull1D
Entries 41
Mean 0.004966
Std Dev 0.518
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

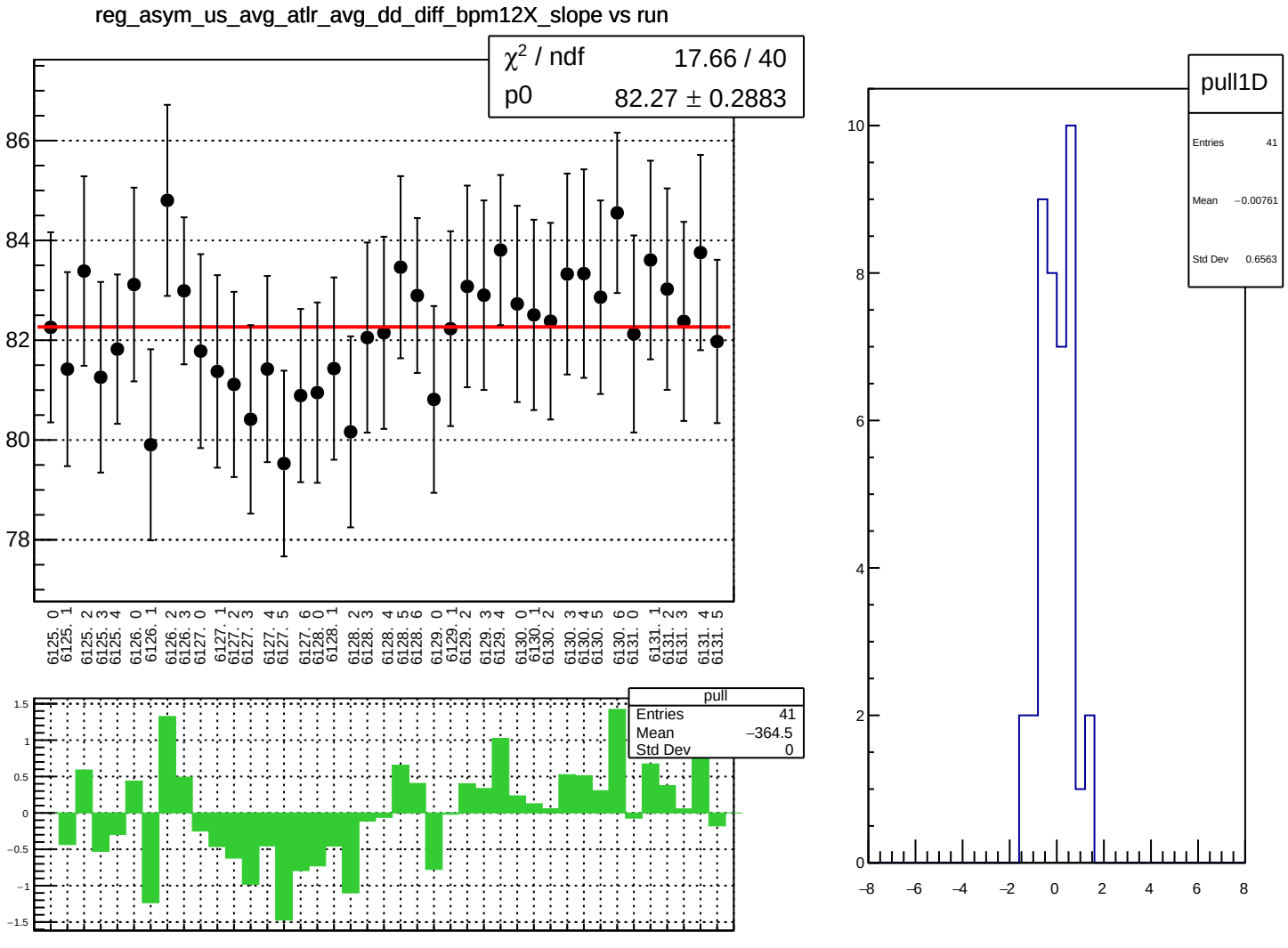

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 10.42 / 40
p0 139.4 ± 3.011
pull
Entries 41
Mean 376.1
Std Dev 0
pull1D
Entries 41
Mean 0.005244
Std Dev 0.5041

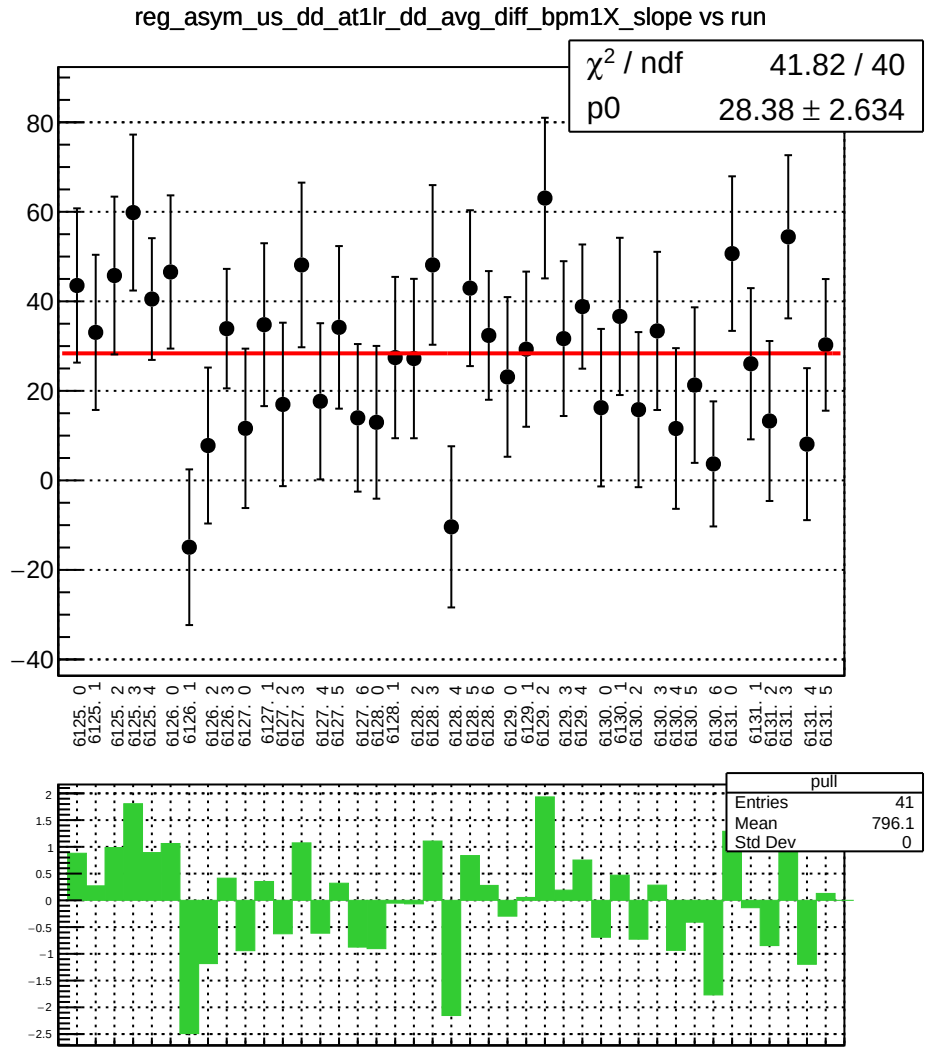

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.868 / 40
p0 3.969 ± 3.247
pull
Entries 41
Mean −456.2
Std Dev 0
pull1D
Entries 41
Mean 0.002339
Std Dev 0.4381

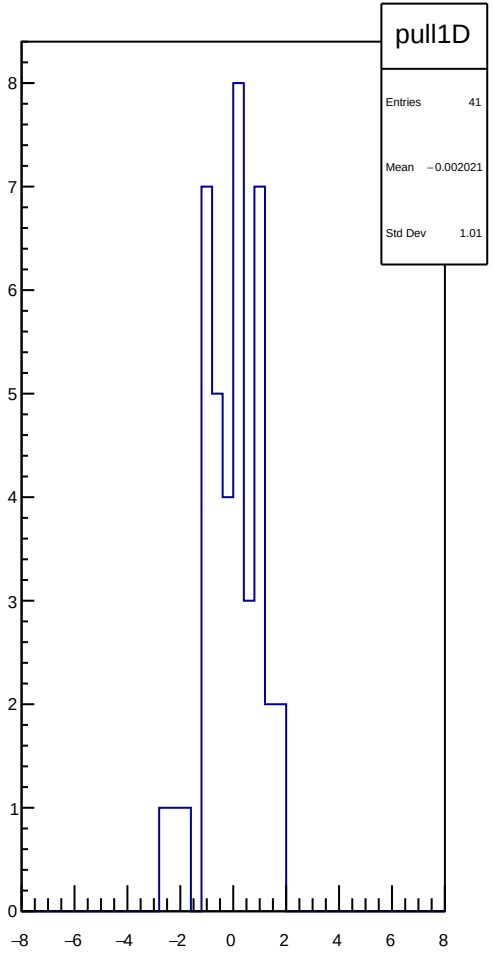

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.05 / 40
p0 −194.6 ± 3.67
−140
−160
−180
−200
−220
−240
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 322.7
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 41
Mean −0.005795
Std Dev 0.4952
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

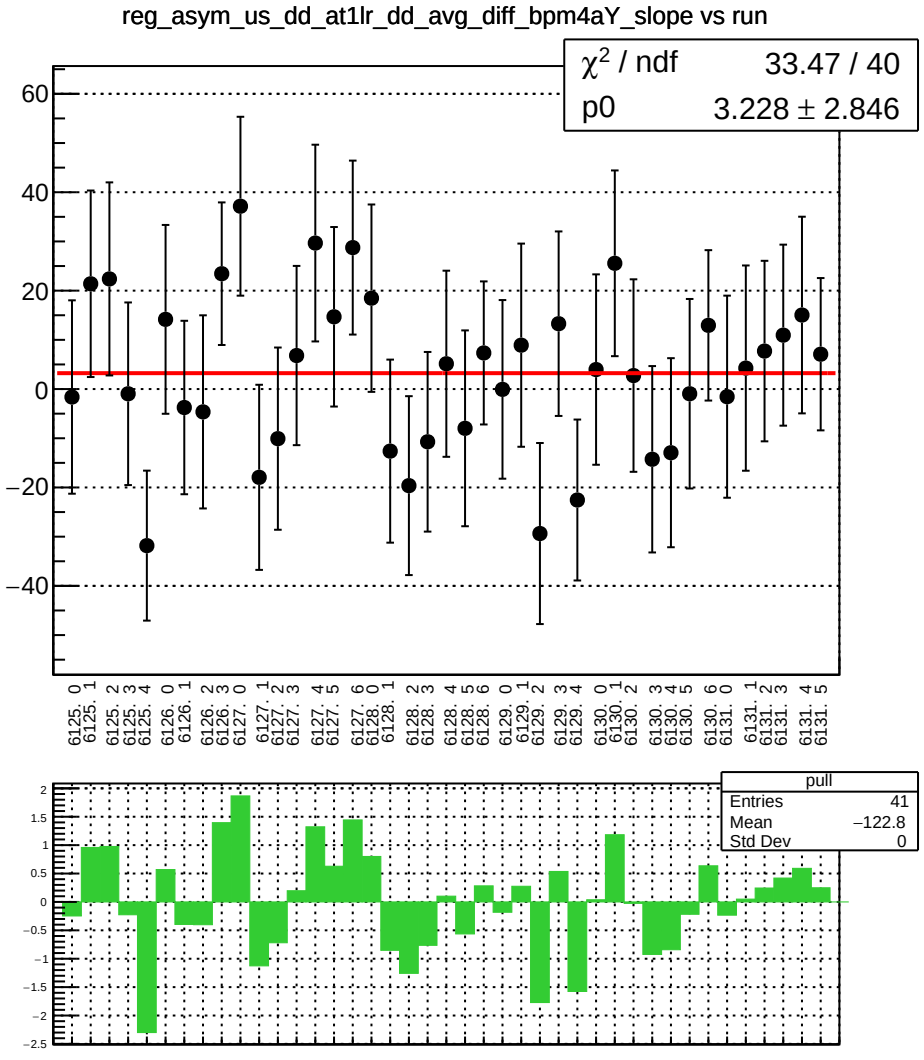

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.936 / 40
p0 −44.49 ± 3.437
pull
Entries 41
Mean −223.4
Std Dev 0

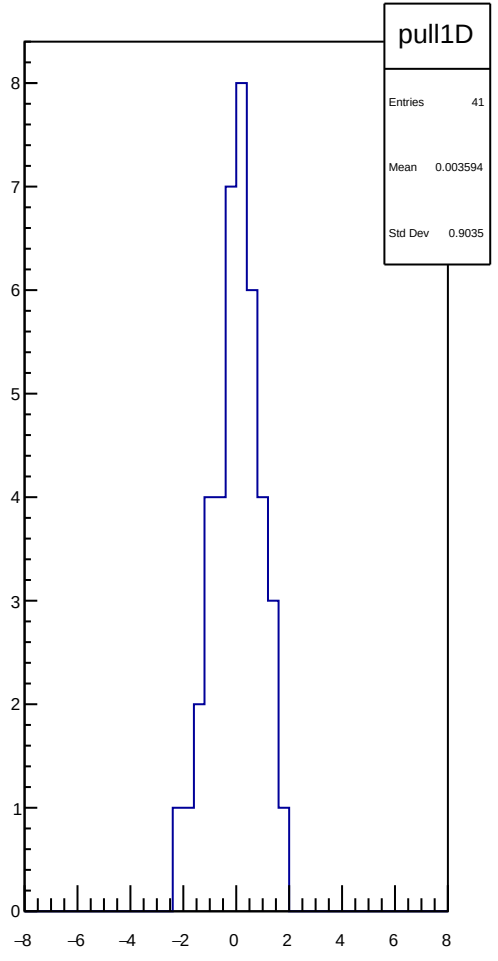

pull1D
Entries 41
Mean −0.003396
Std Dev 0.44

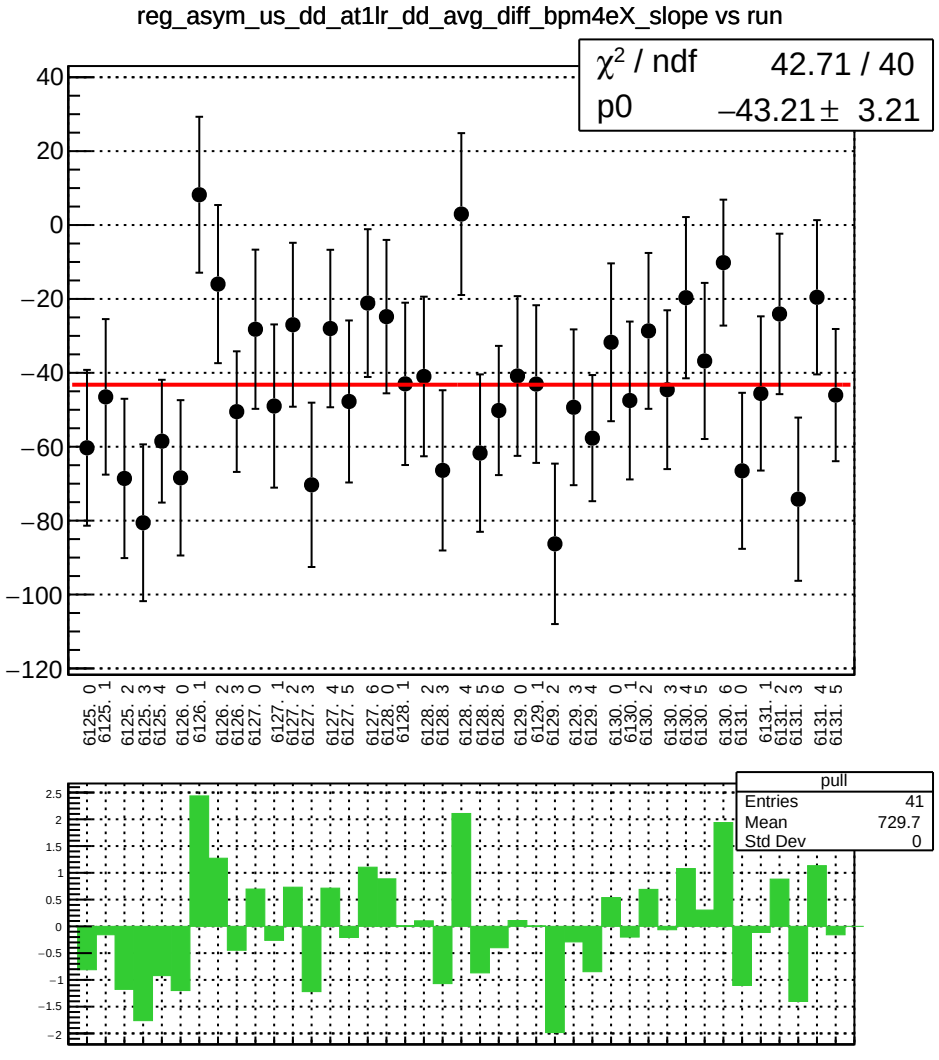

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 17.66 / 40
p0 82.27 ± 0.2883
86
84
82
80
78
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −364.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.00761
Std Dev 0.6563
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

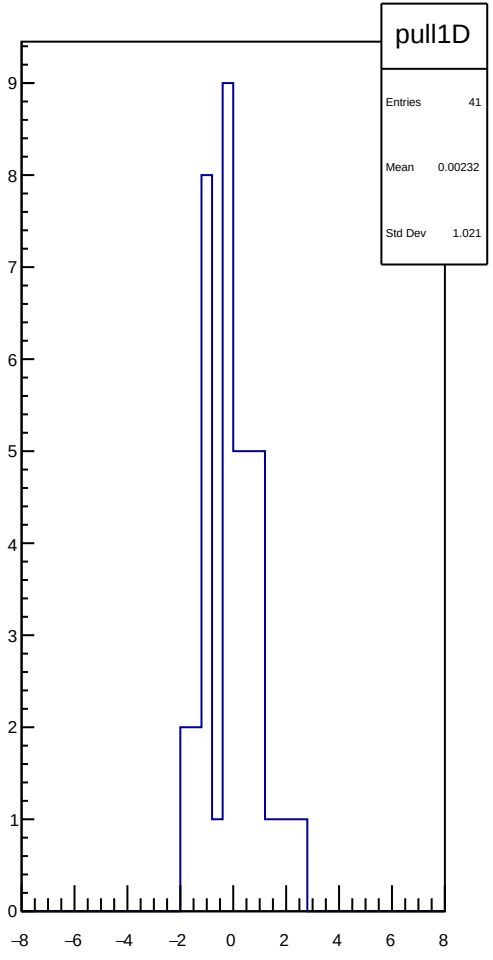

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 41.82 / 40
p0 28.38 ± 2.634
pull
Entries 41
Mean 796.1
Std Dev 0

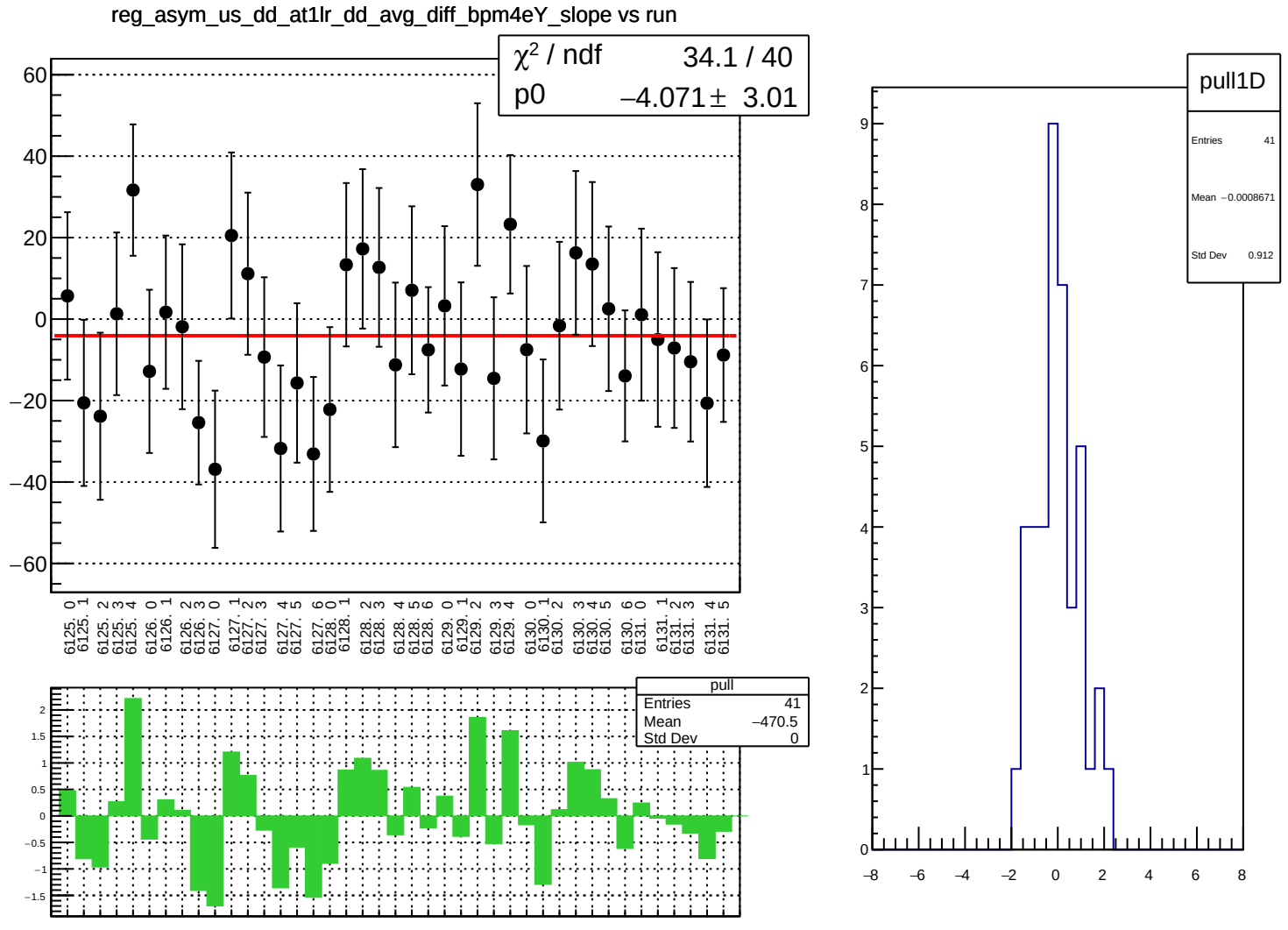

pull1D
Entries 41
Mean −0.002021
Std Dev 1.01

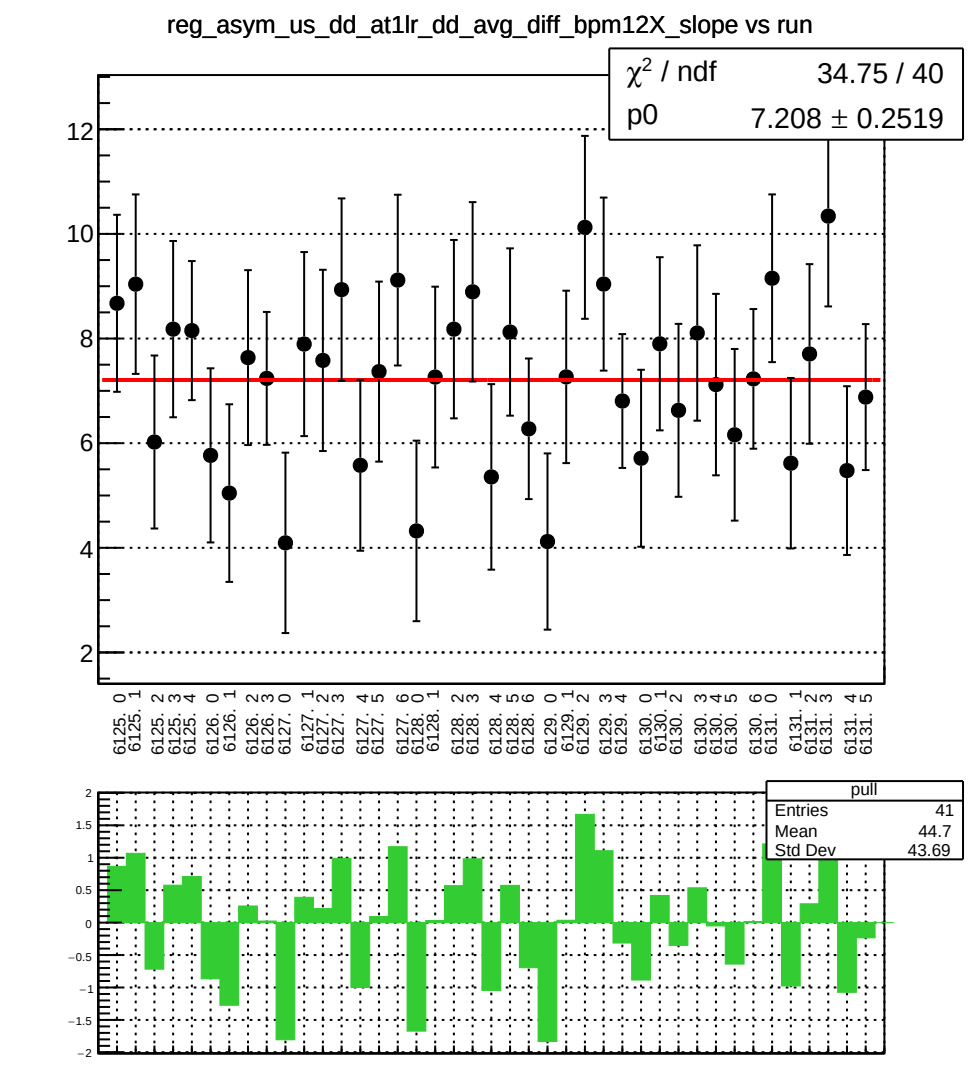

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.47 / 40
p0 3.228 ± 2.846
pull
Entries 41
Mean −122.8
Std Dev 0

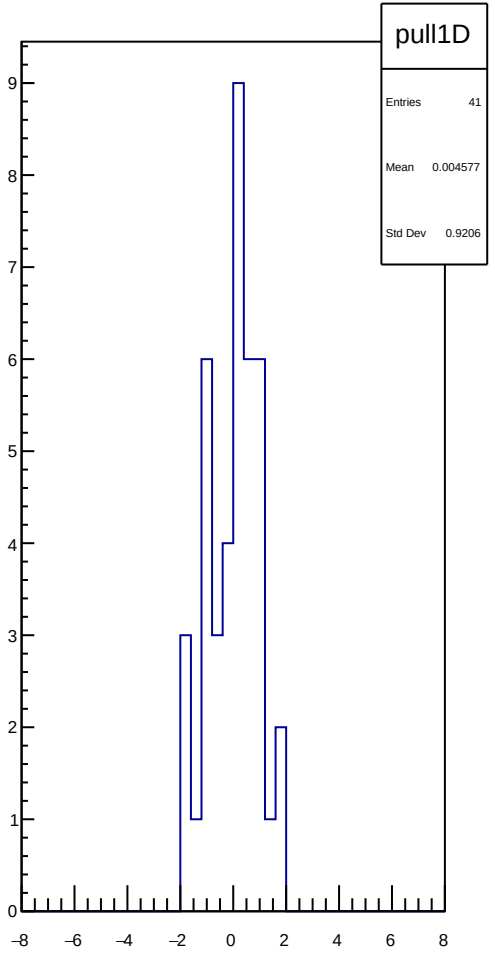

pull1D
Entries 41
Mean 0.003594
Std Dev 0.9035

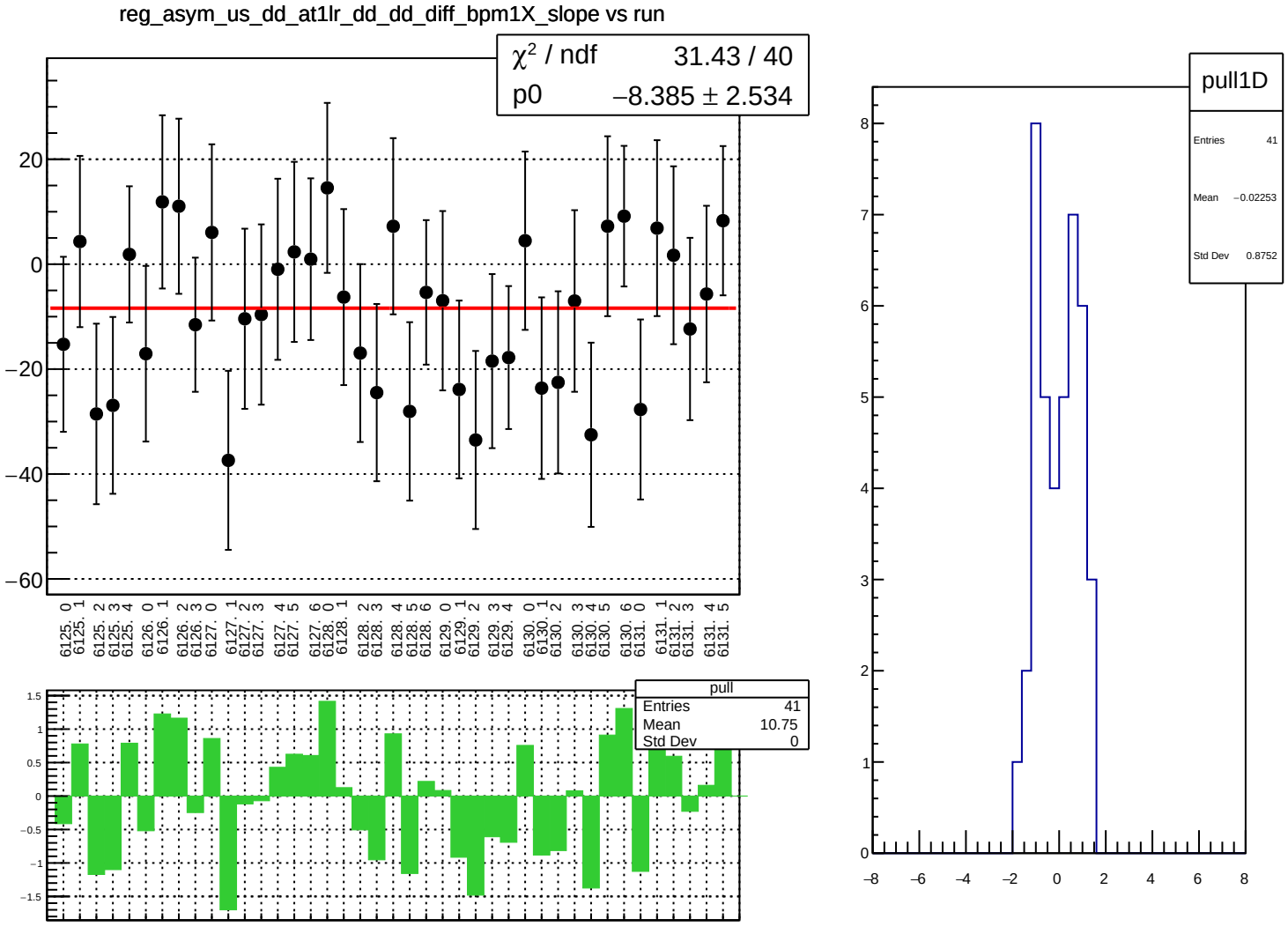

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.71 / 40
p0 −43.21 ± 3.21
pull
Entries 41
Mean 729.7
Std Dev 0

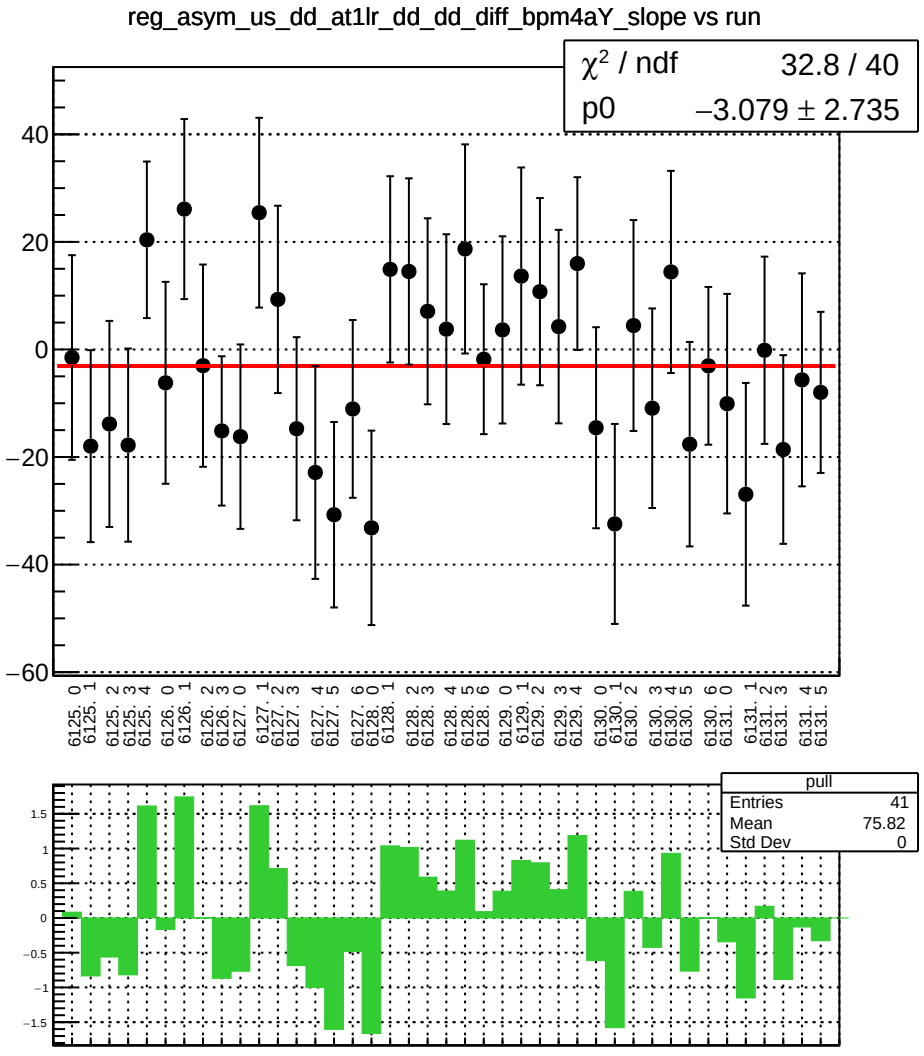

pull1D
Entries 41
Mean 0.00232
Std Dev 1.021

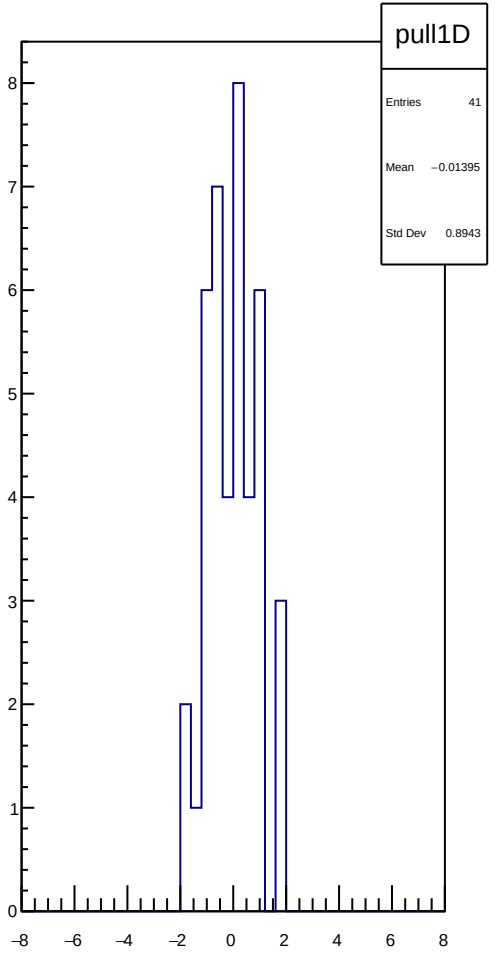

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 34.1 / 40
p0 −4.071 ± 3.01
pull
Entries 41
Mean −470.5
Std Dev 0
pull1D
Entries 41
Mean −0.0008671
Std Dev 0.912

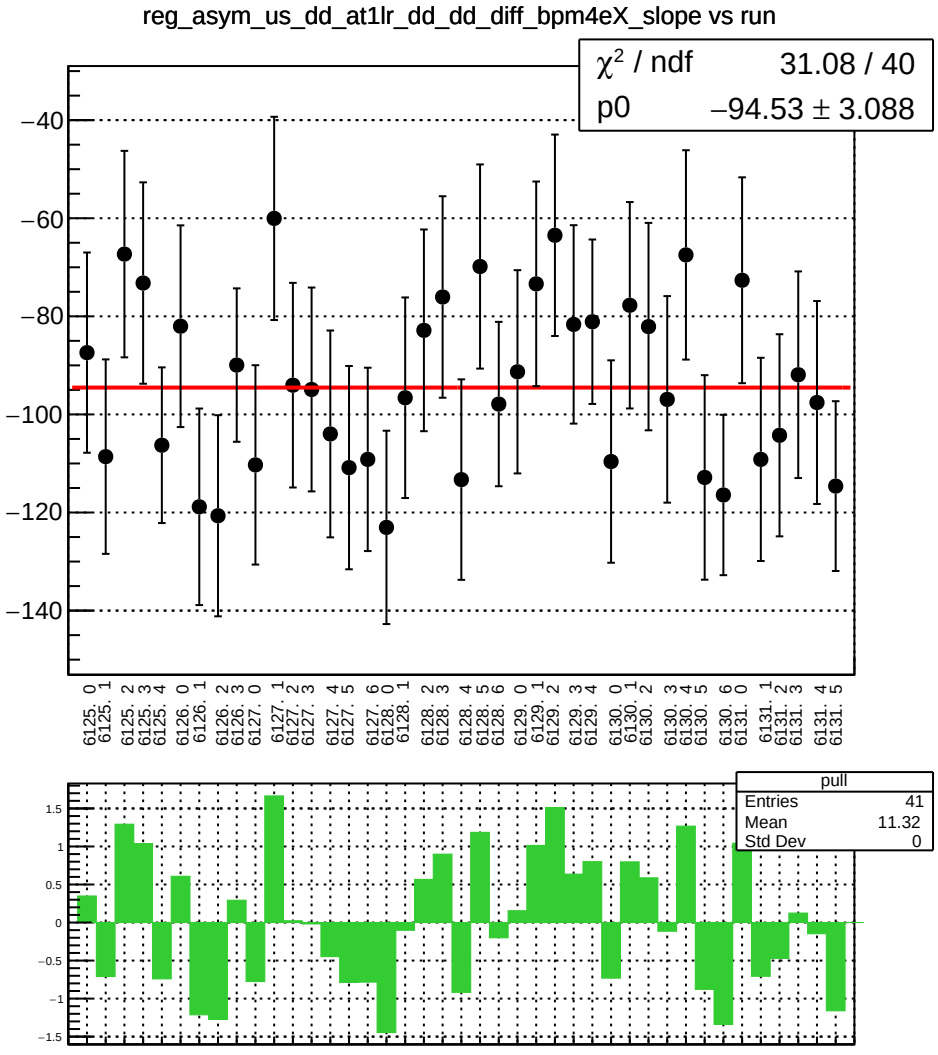

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 34.75 / 40
p0 7.208 ± 0.2519
pull
Entries 41
Mean 44.7
Std Dev 43.69

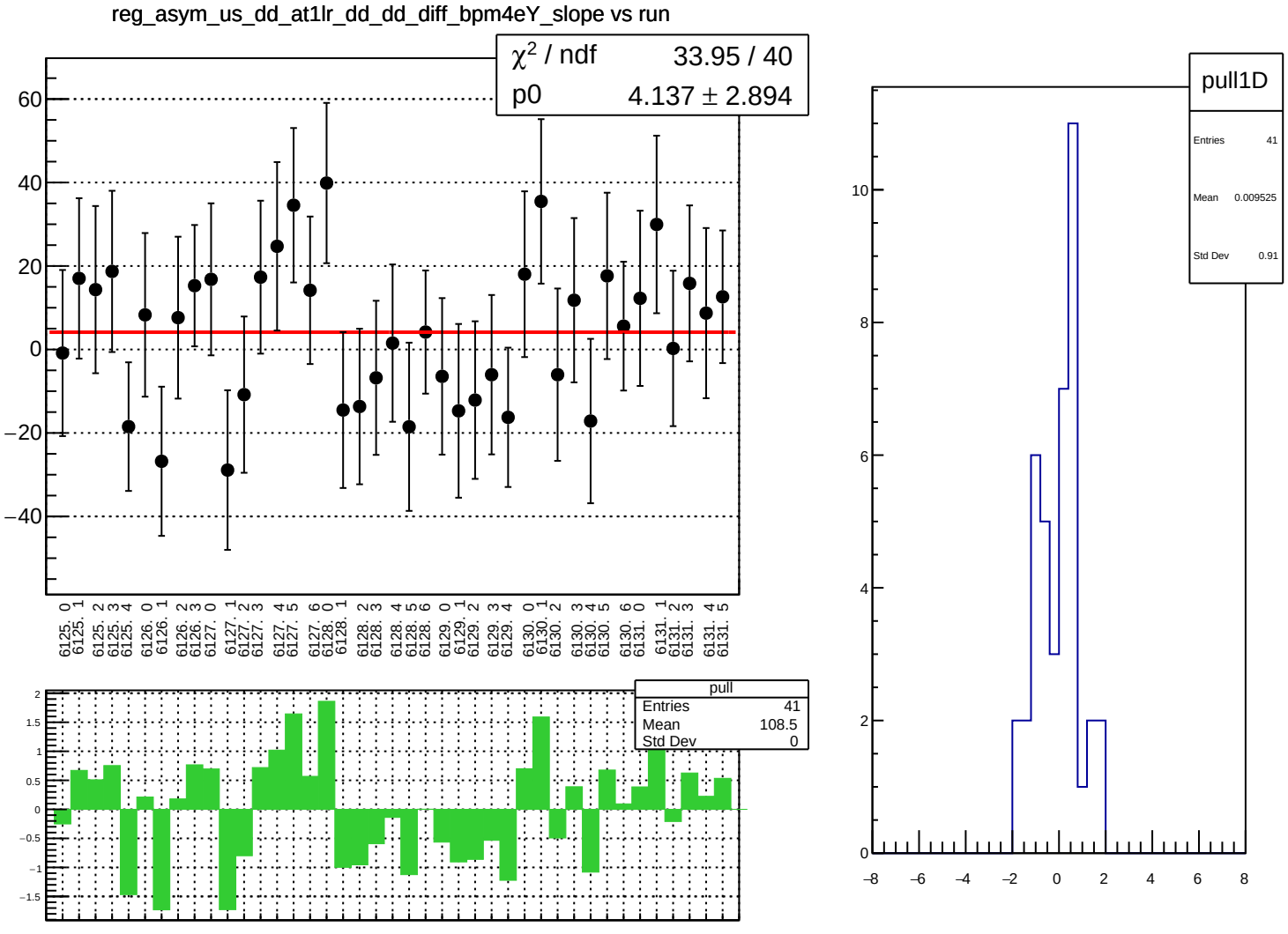

pull1D
Entries 41
Mean 0.004577
Std Dev 0.9206

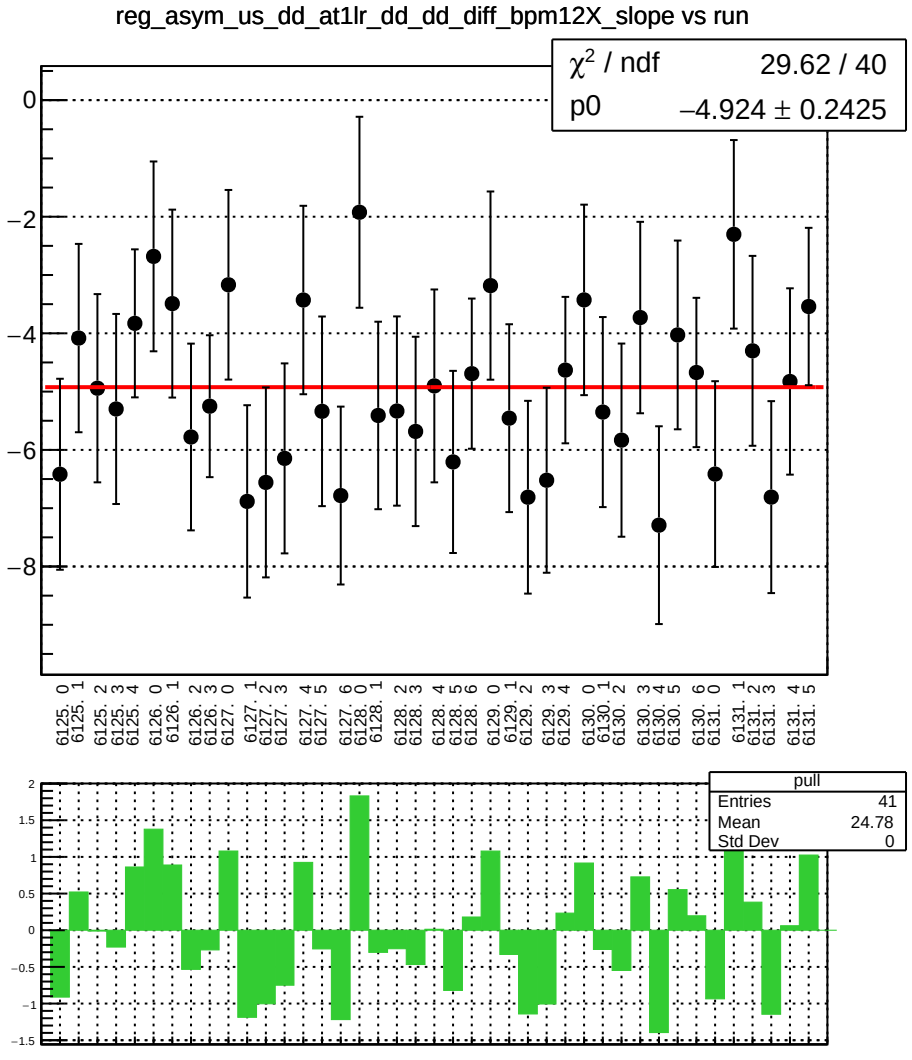

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 31.43 / 40
p0 −8.385 ± 2.534
20
0
−20
−40
−60
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 10.75
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.02253
Std Dev 0.8752
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

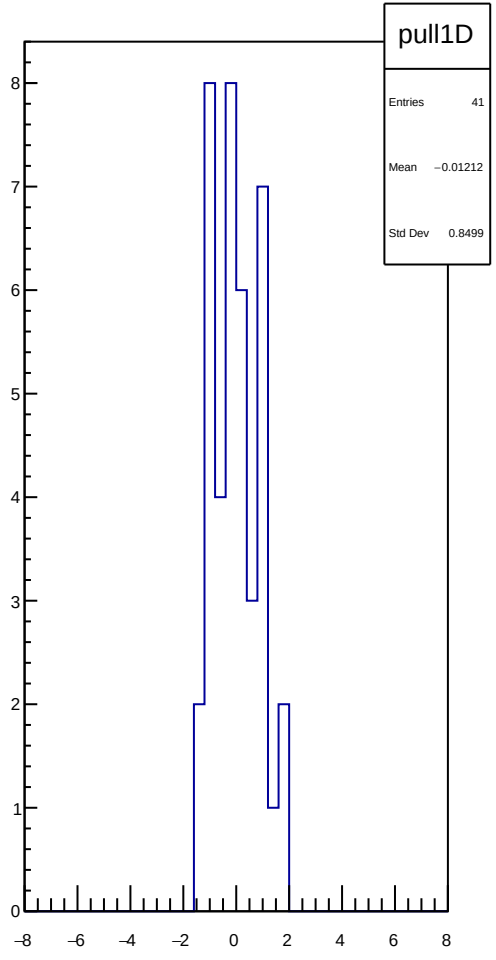

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.8 / 40
p0 −3.079 ± 2.735
pull
Entries 41
Mean 75.82
Std Dev 0

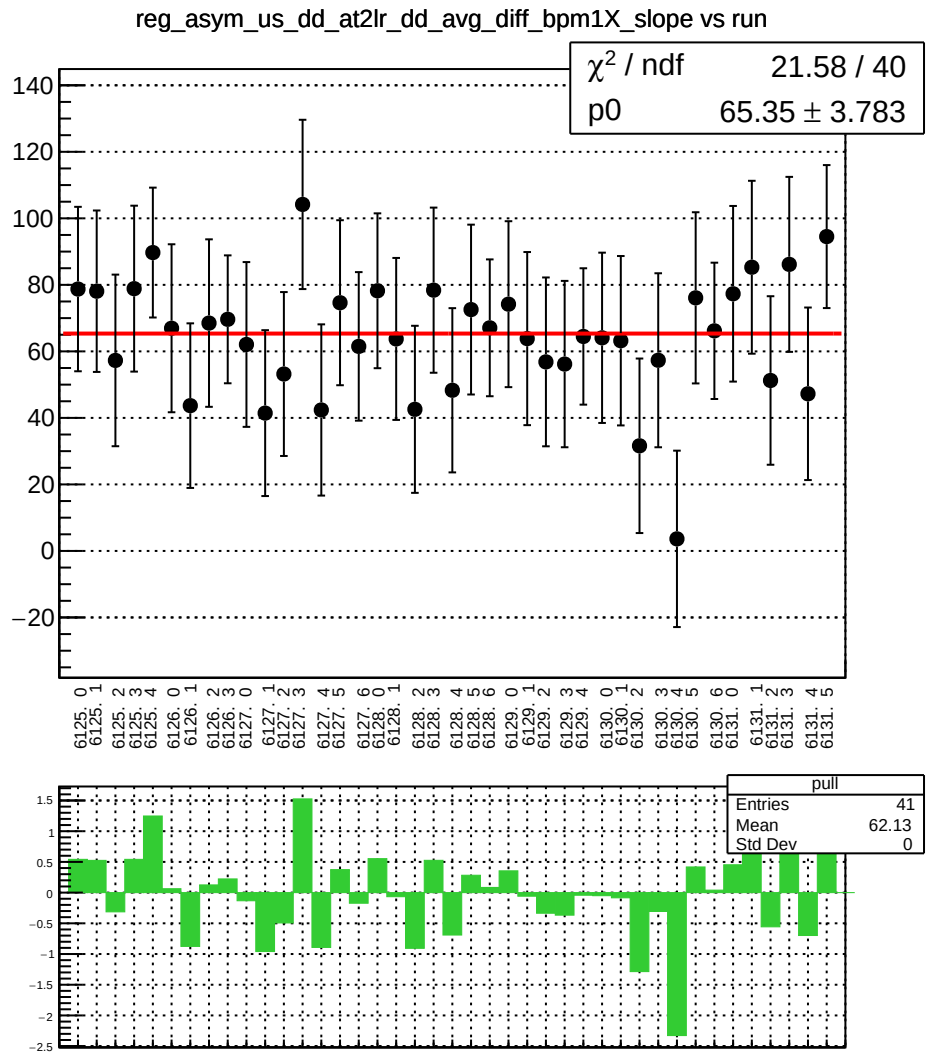

pull1D
Entries 41
Mean −0.01395
Std Dev 0.8943

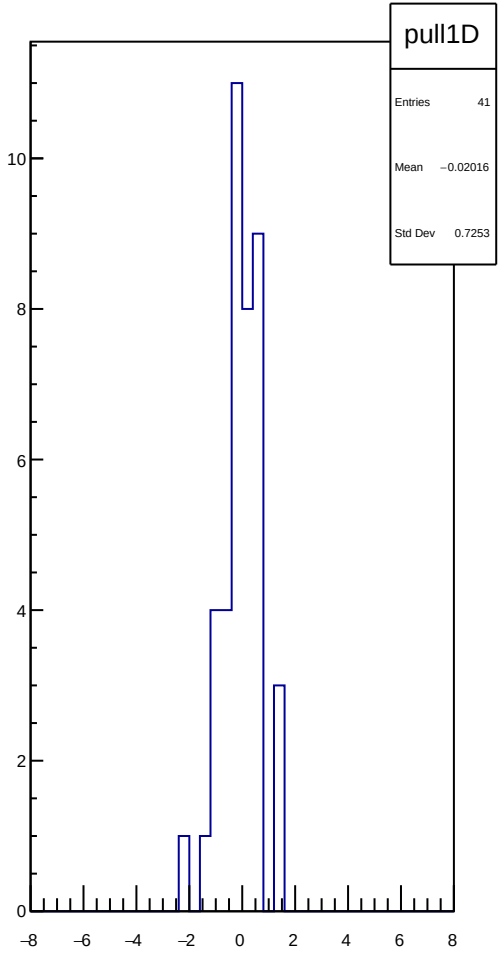

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.08 / 40
p0 −94.53 ± 3.088
−40
−60
−80
−100
−120
−140
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 11.32
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.02172
Std Dev 0.8705
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

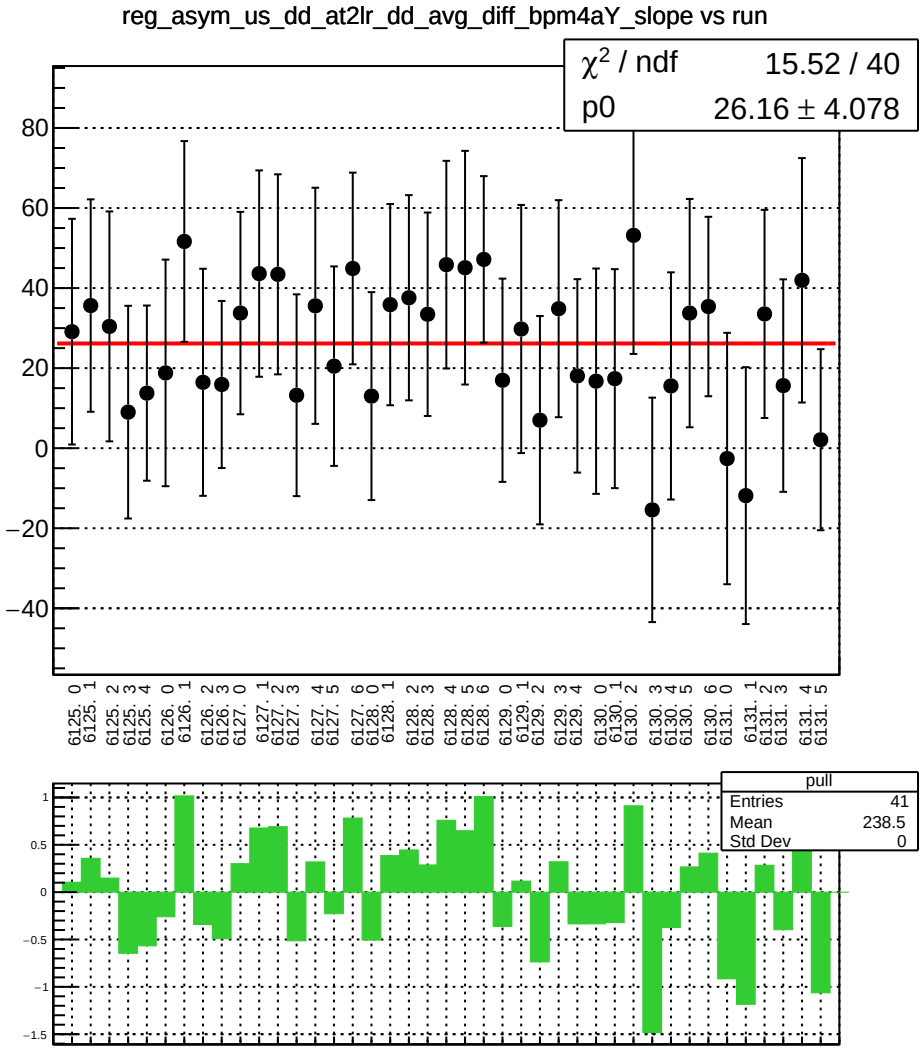

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.95 / 40
p0 4.137 ± 2.894
pull
Entries 41
Mean 108.5
Std Dev 0
pull1D
Entries 41
Mean 0.009525
Std Dev 0.91

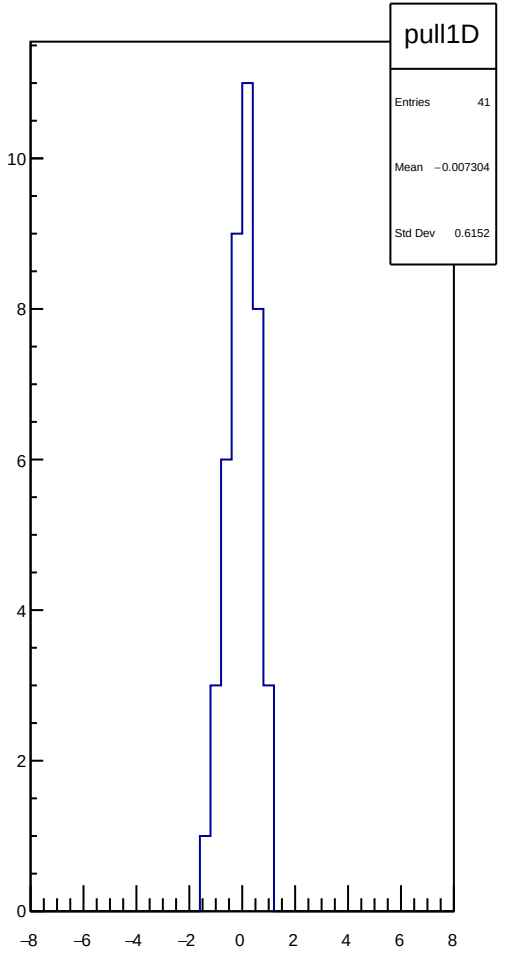

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 29.62 / 40
p0 −4.924 ± 0.2425
pull
Entries 41
Mean 24.78
Std Dev 0

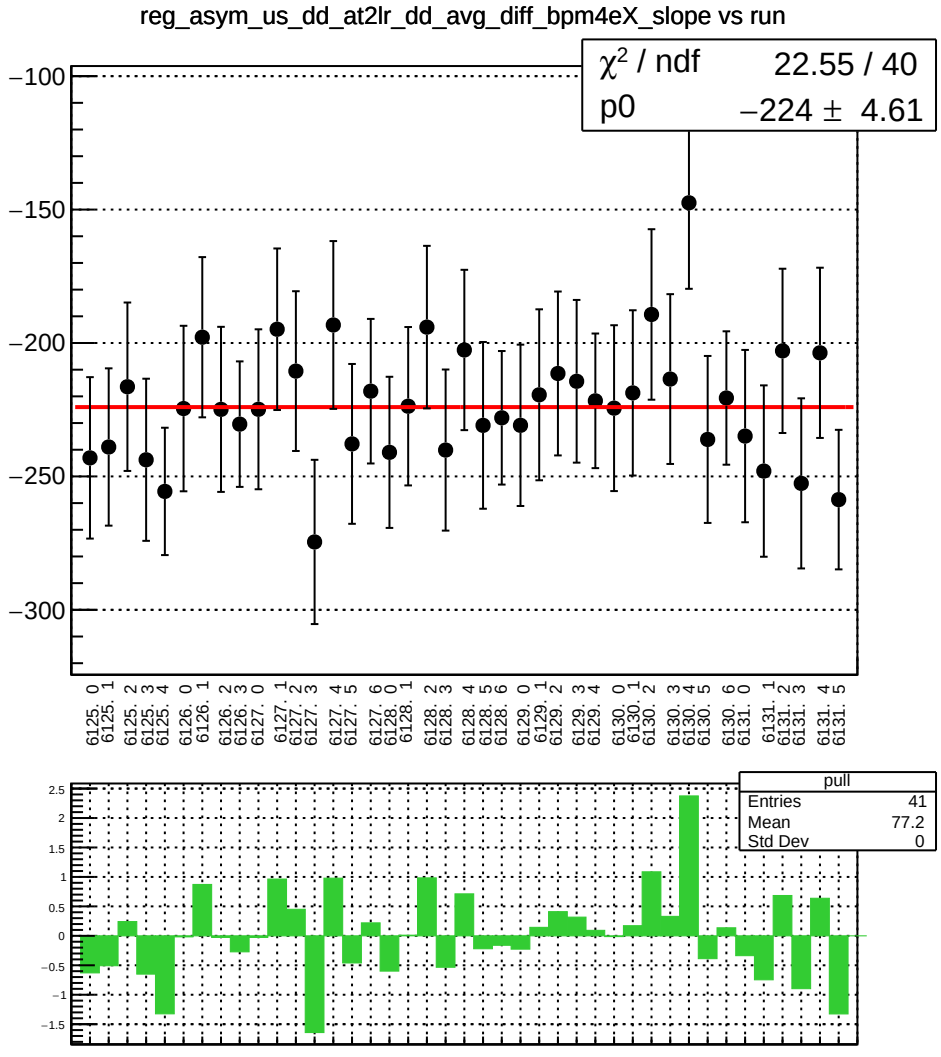

pull1D
Entries 41
Mean −0.01212
Std Dev 0.8499

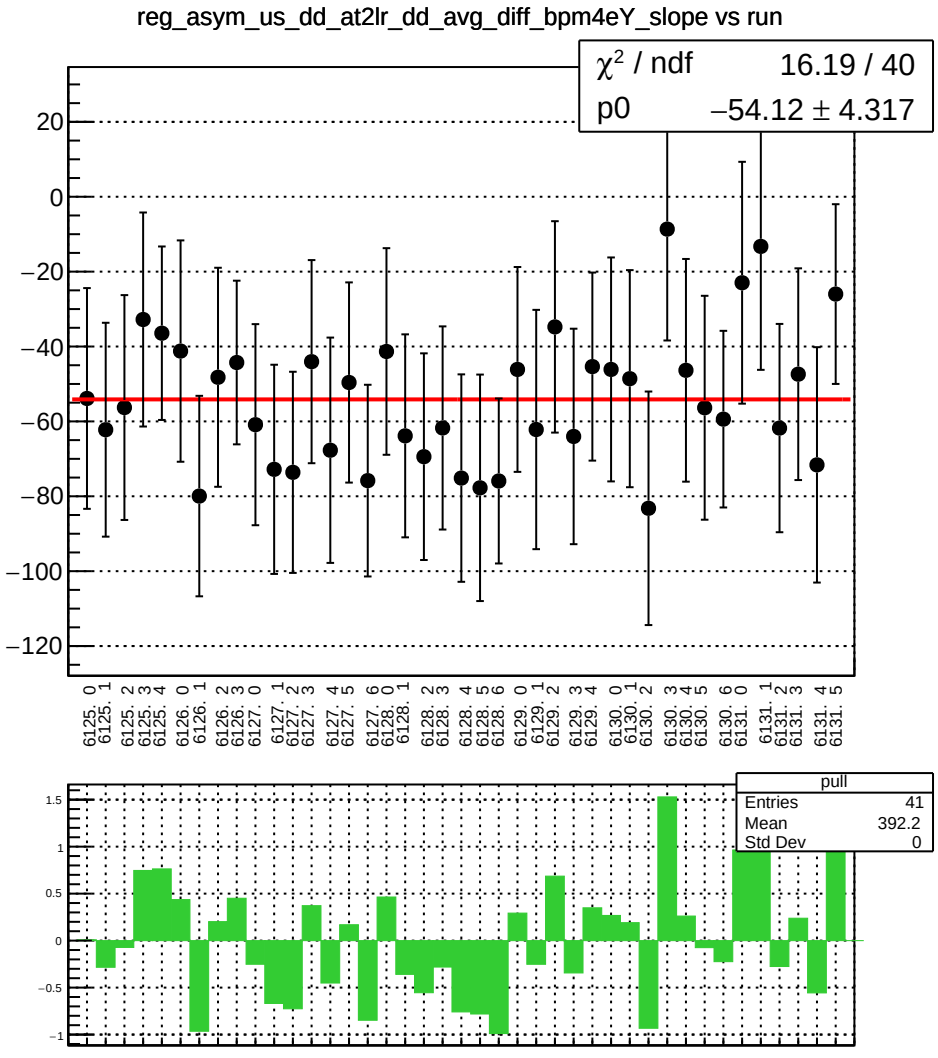

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 21.58 / 40
p0 65.35 ± 3.783
pull
Entries 41
Mean 62.13
Std Dev 0

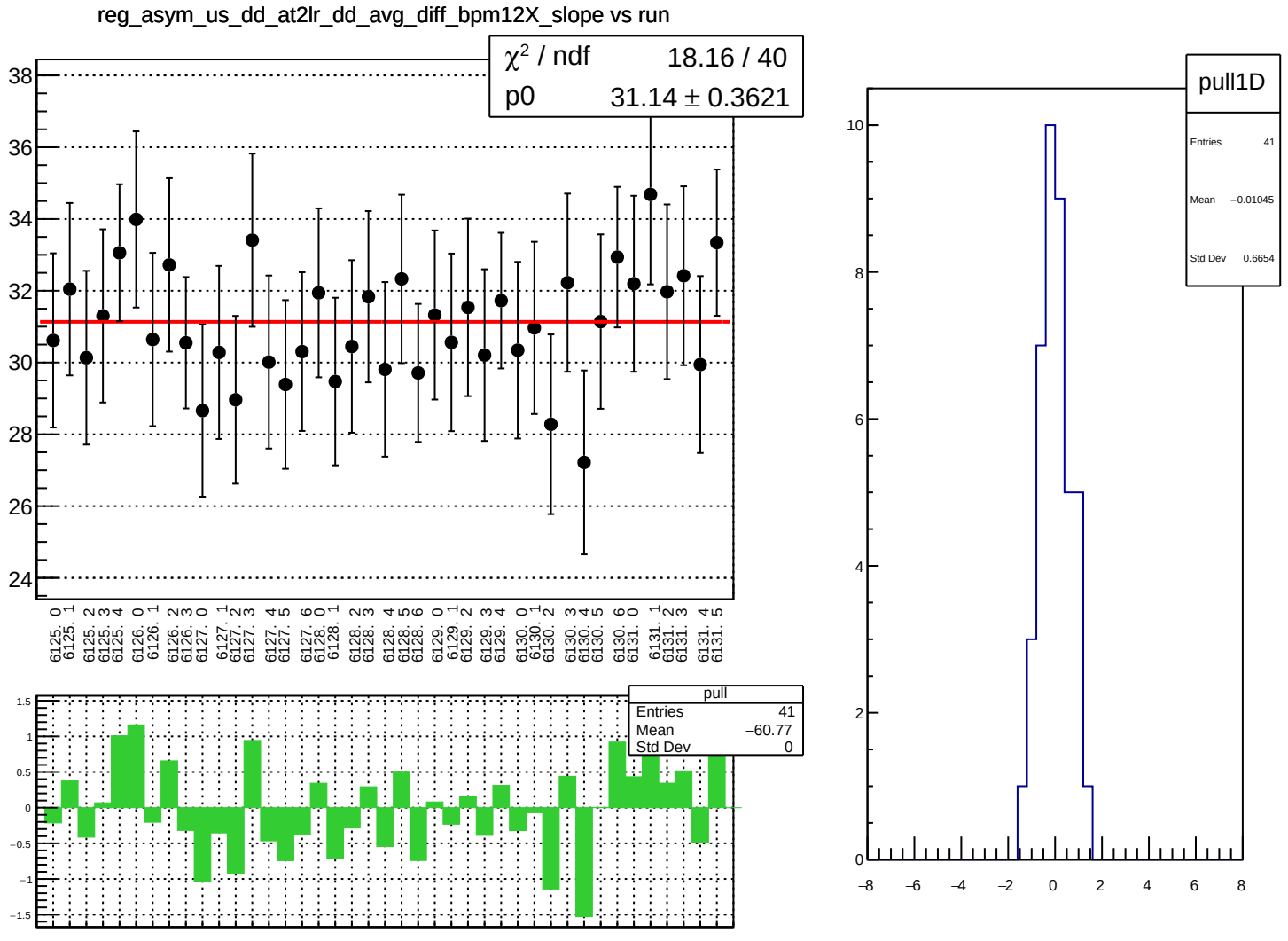

pull1D
Entries 41
Mean −0.02016
Std Dev 0.7253

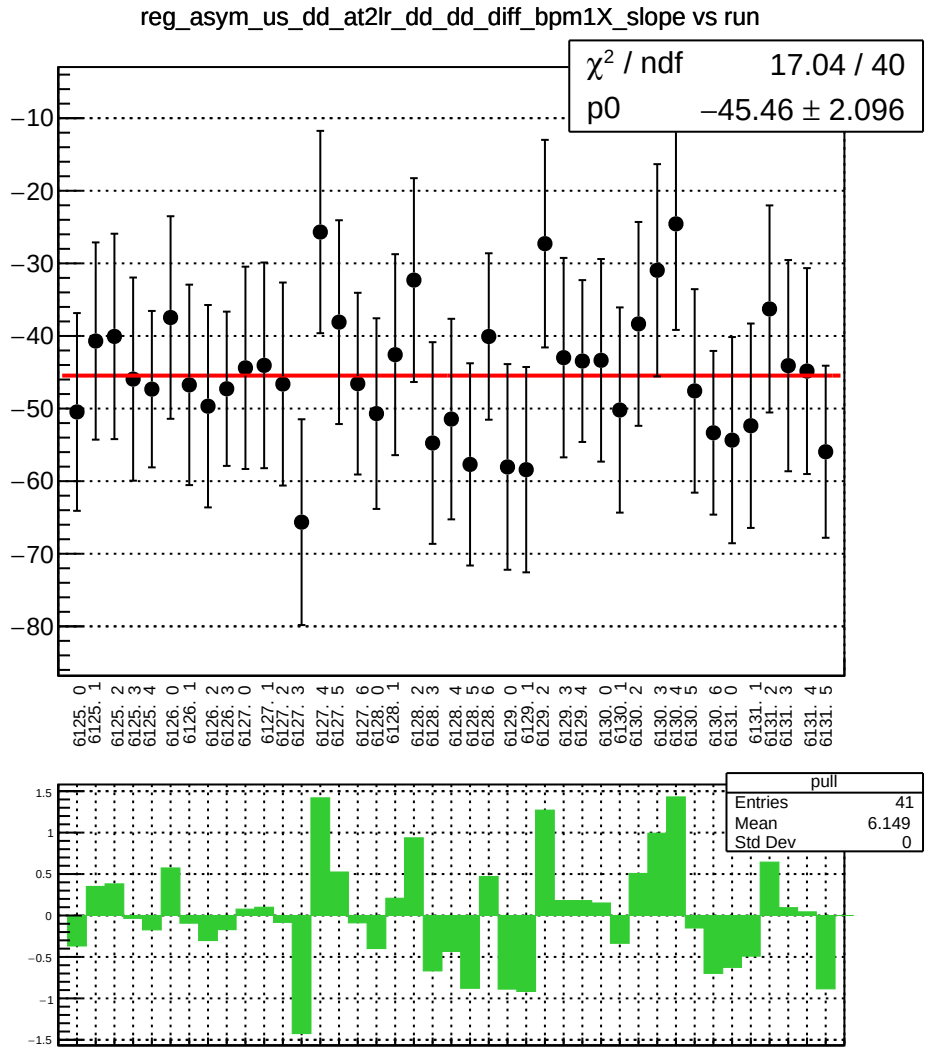

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.52 / 40
p0 26.16 ± 4.078
pull
Entries 41
Mean 238.5
Std Dev 0

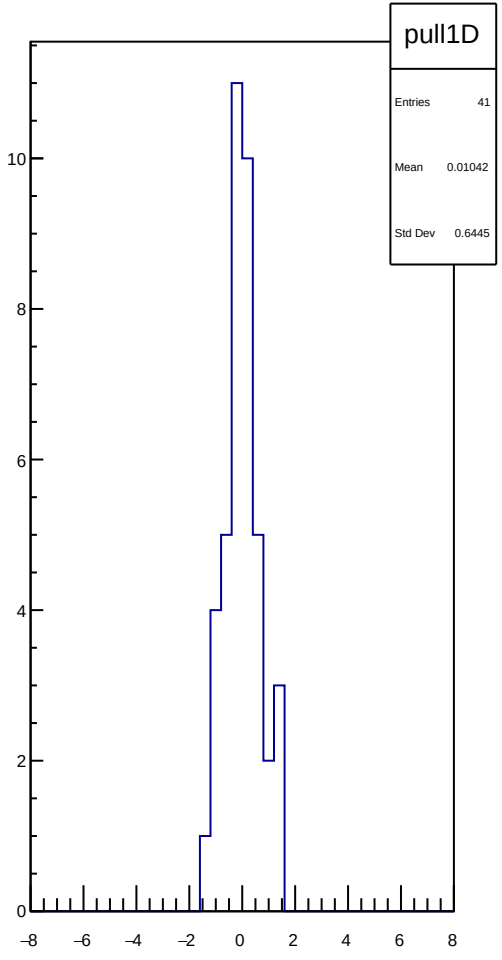

pull1D
Entries 41
Mean −0.007304
Std Dev 0.6152

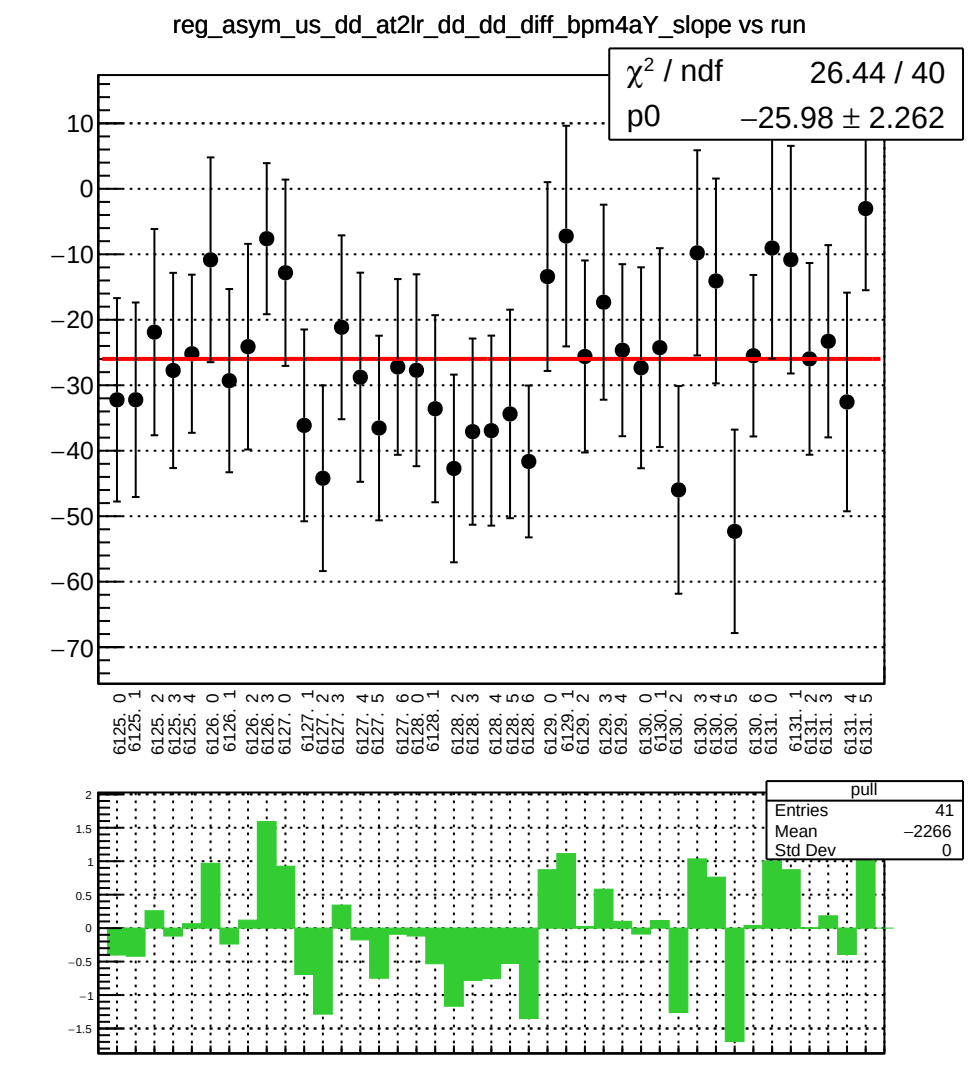

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.55 / 40
p0 −224 ± 4.61
−100
−150
−200
−250
−300
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 77.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.02006
Std Dev 0.7413
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

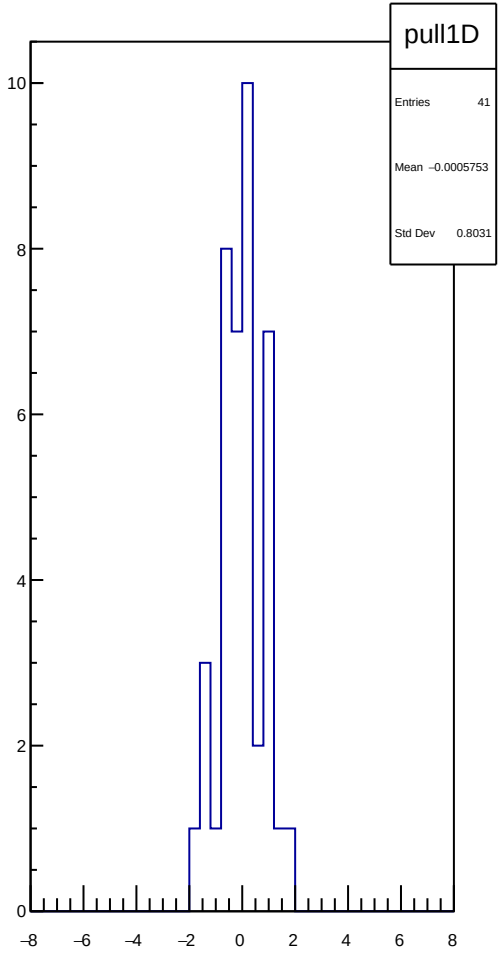

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.19 / 40
p0 −54.12 ± 4.317
pull
Entries 41
Mean 392.2
Std Dev 0
pull1D
Entries 41
Mean 0.003846
Std Dev 0.6284

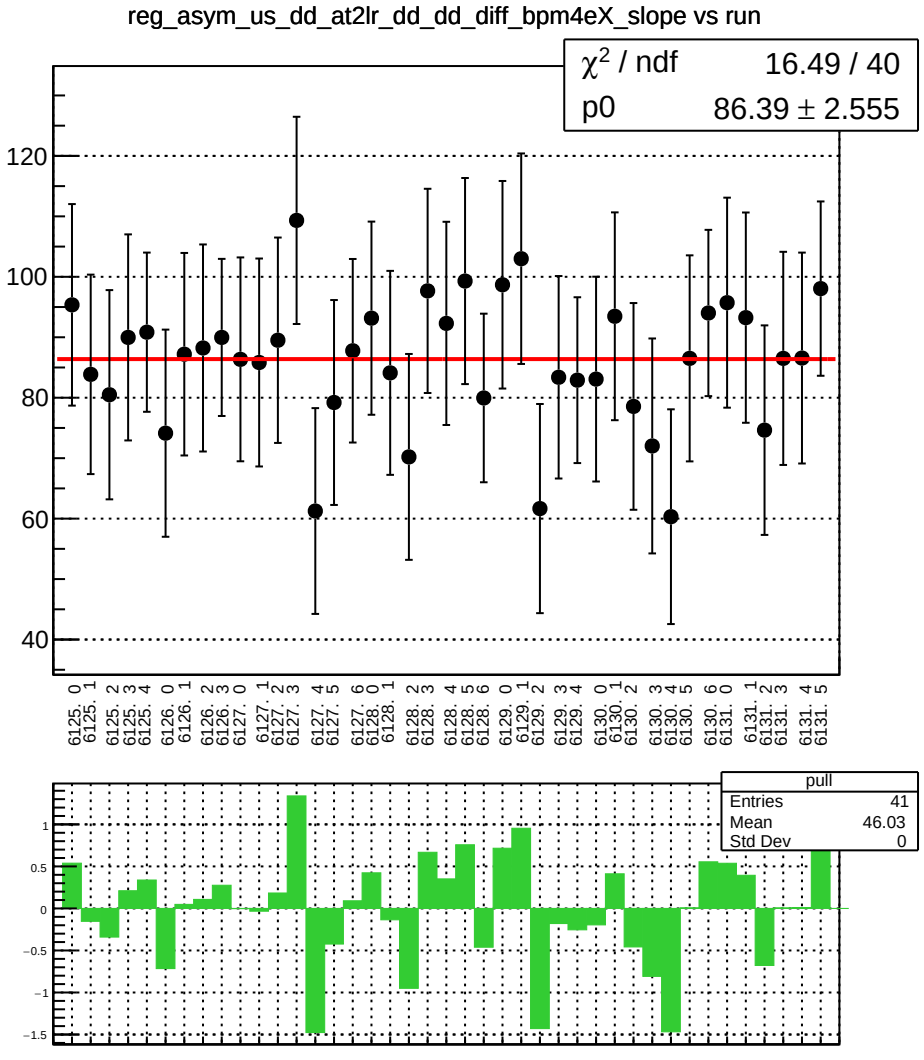

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 18.16 / 40
p0 31.14 ± 0.3621
38
36
34
32
30
28
26
24
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −60.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.01045
Std Dev 0.6654
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

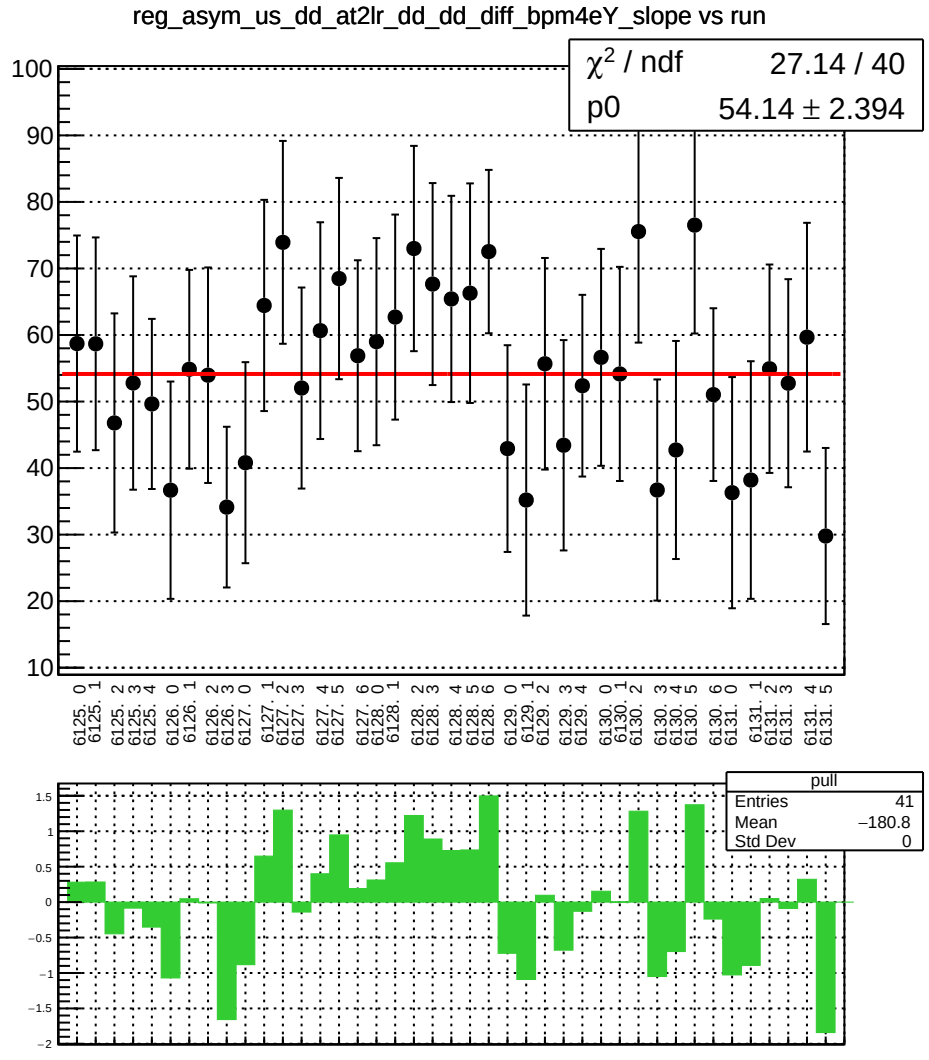

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 17.04 / 40
p0 −45.46 ± 2.096
pull
Entries 41
Mean 6.149
Std Dev 0

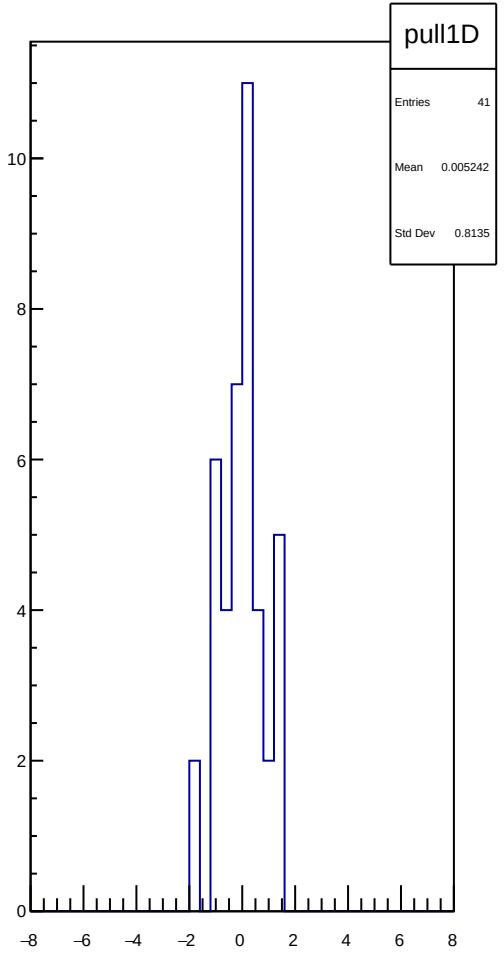

pull1D
Entries 41
Mean 0.01042
Std Dev 0.6445

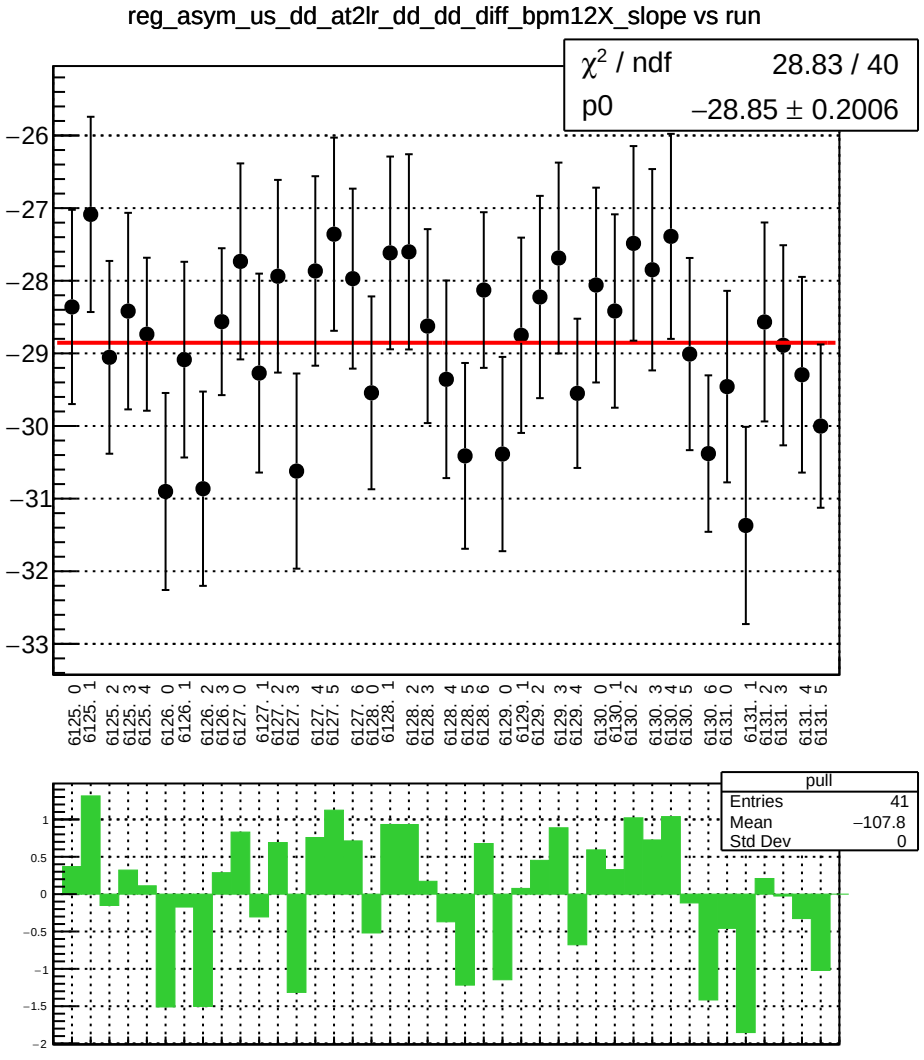

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.44 / 40
p0 −25.98 ± 2.262
pull
Entries 41
Mean −2266
Std Dev 0

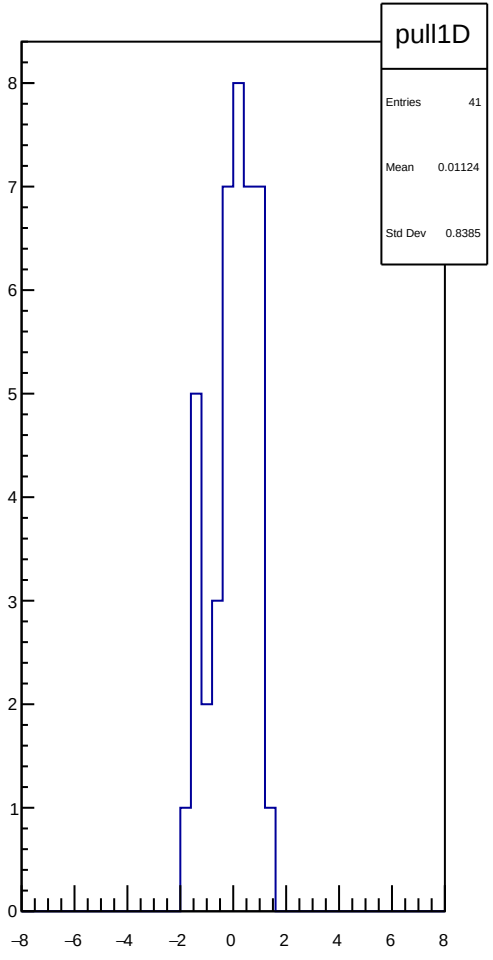

pull1D
Entries 41
Mean −0.0005753
Std Dev 0.8031

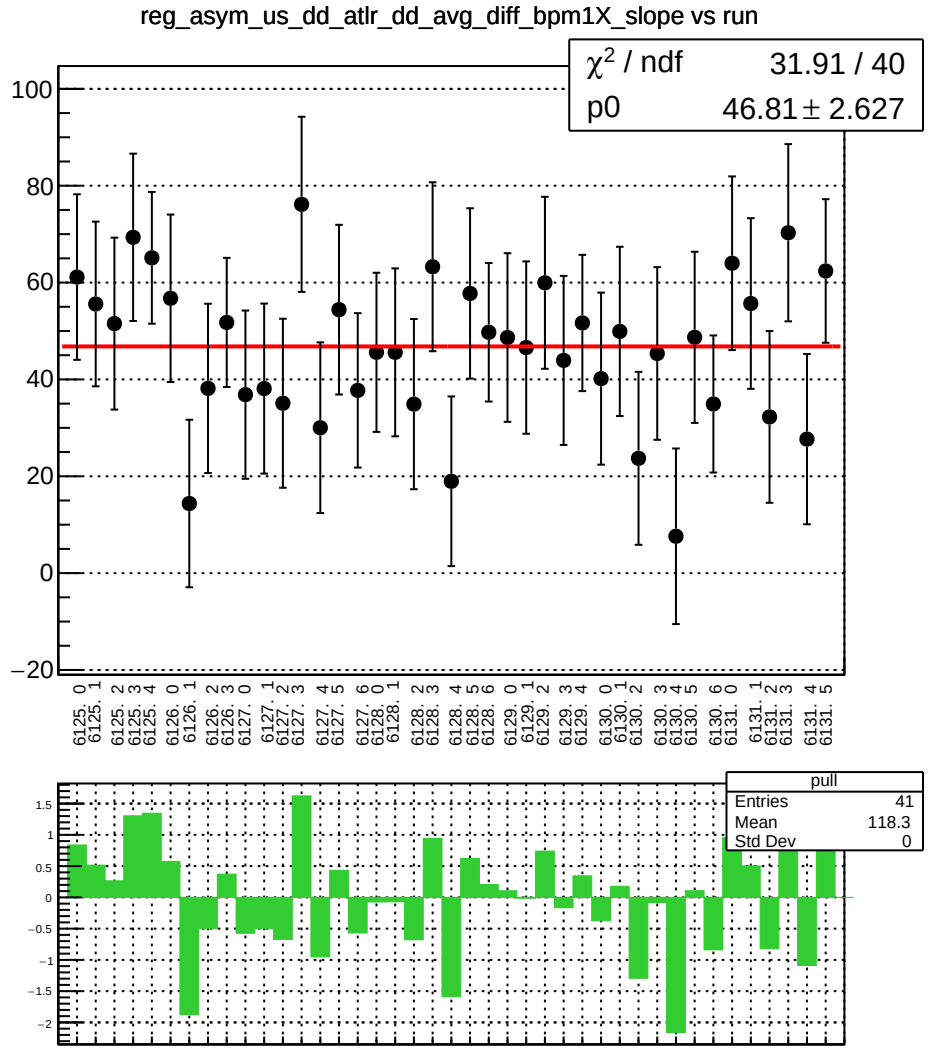

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.49 / 40
p0 86.39 ± 2.555
120
100
80
60
40
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 46.03
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.01048
Std Dev 0.6342
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

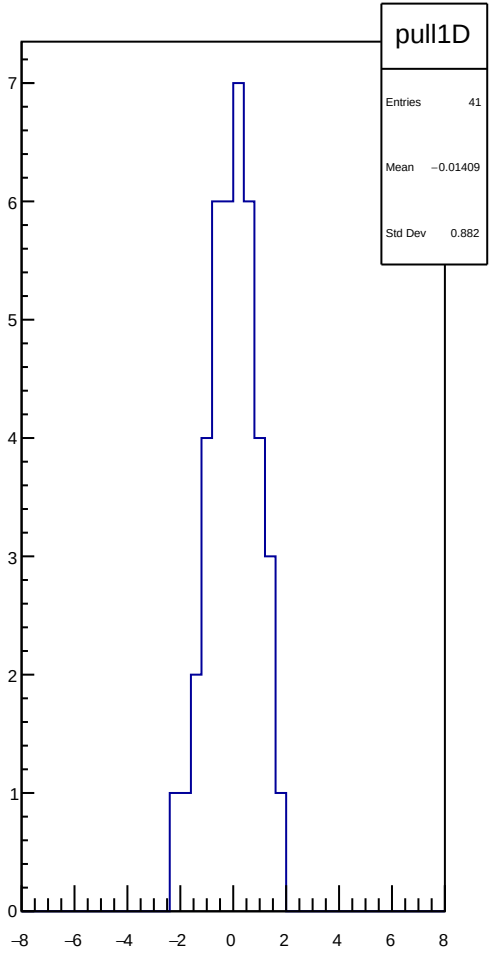

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.14 / 40
p0 54.14 ± 2.394
pull
Entries 41
Mean −180.8
Std Dev 0

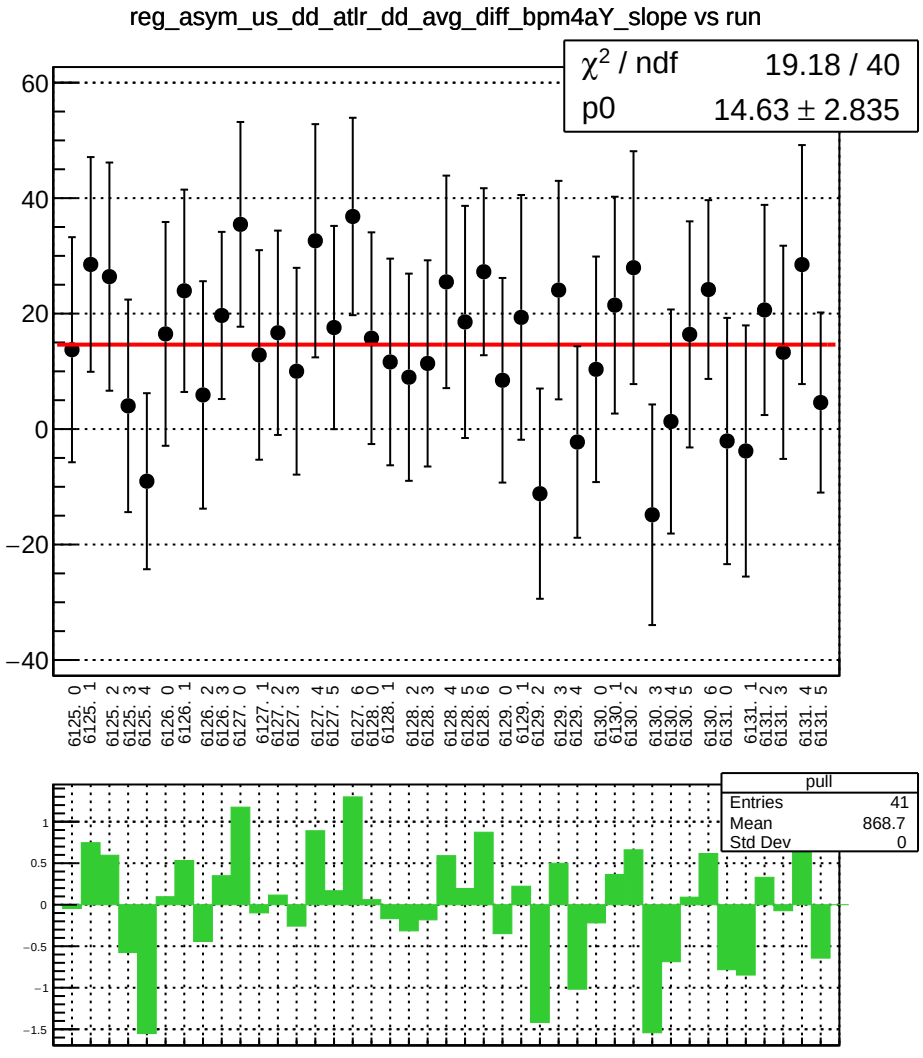

pull1D
Entries 41
Mean 0.005242
Std Dev 0.8135

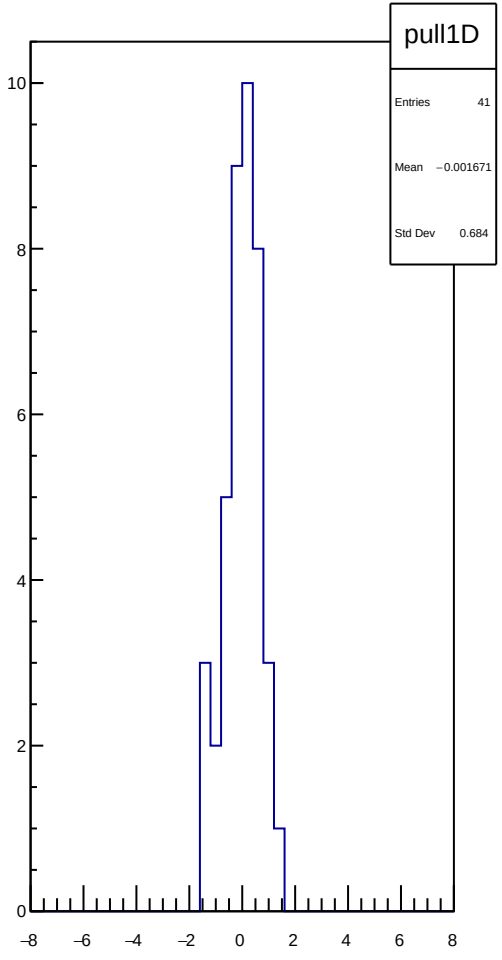

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 28.83 / 40
p0 −28.85 ± 0.2006
pull
Entries 41
Mean −107.8
Std Dev 0

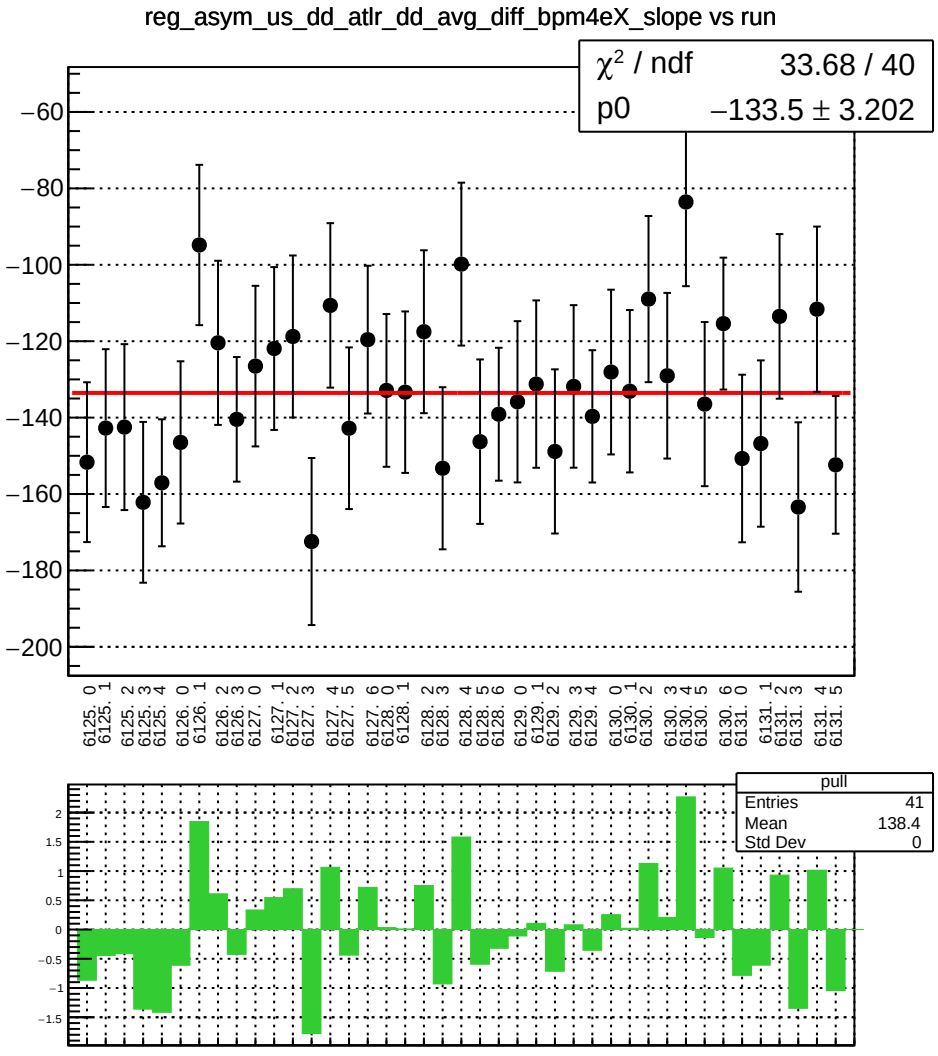

pull1D
Entries 41
Mean 0.01124
Std Dev 0.8385

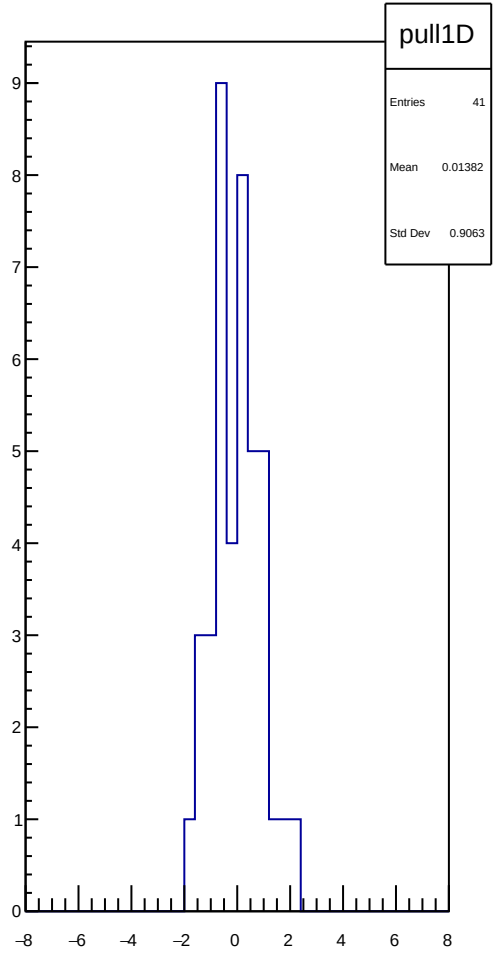

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 31.91 / 40
p0 46.81 ± 2.627
pull
Entries 41
Mean 118.3
Std Dev 0

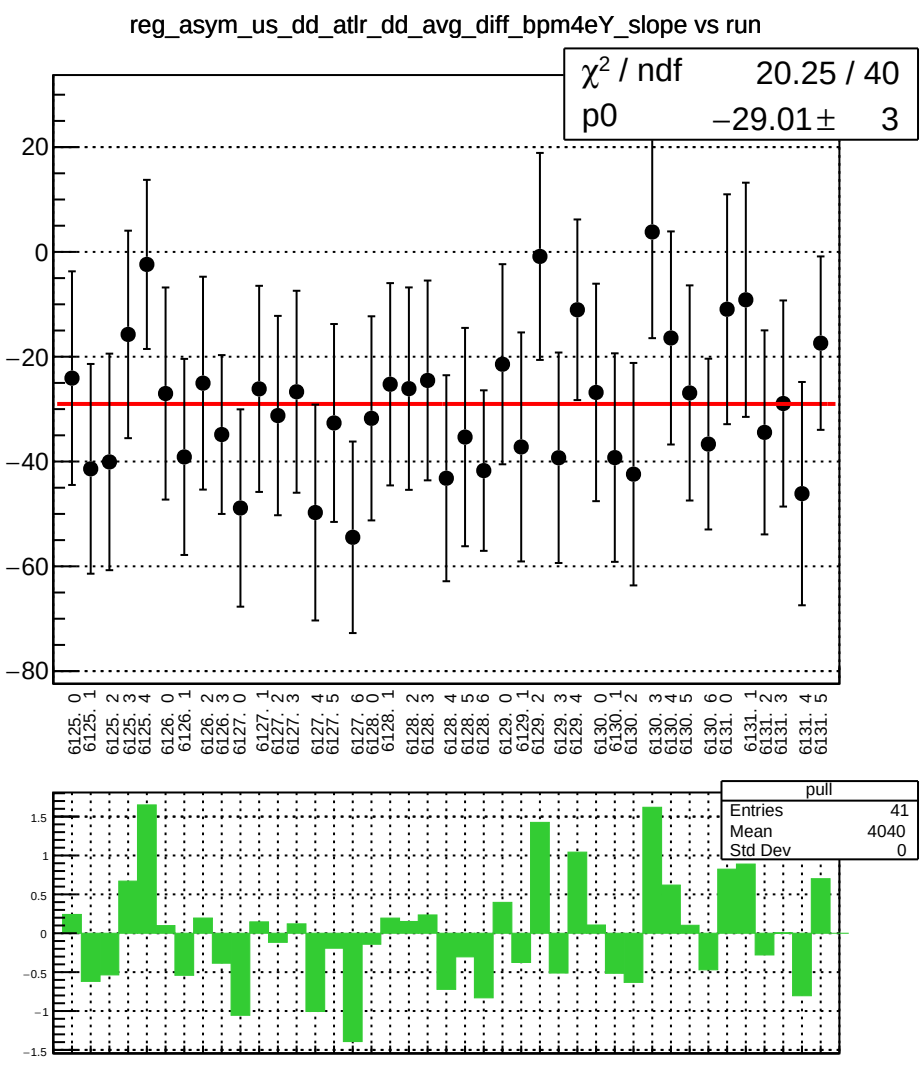

pull1D
Entries 41
Mean −0.01409
Std Dev 0.882

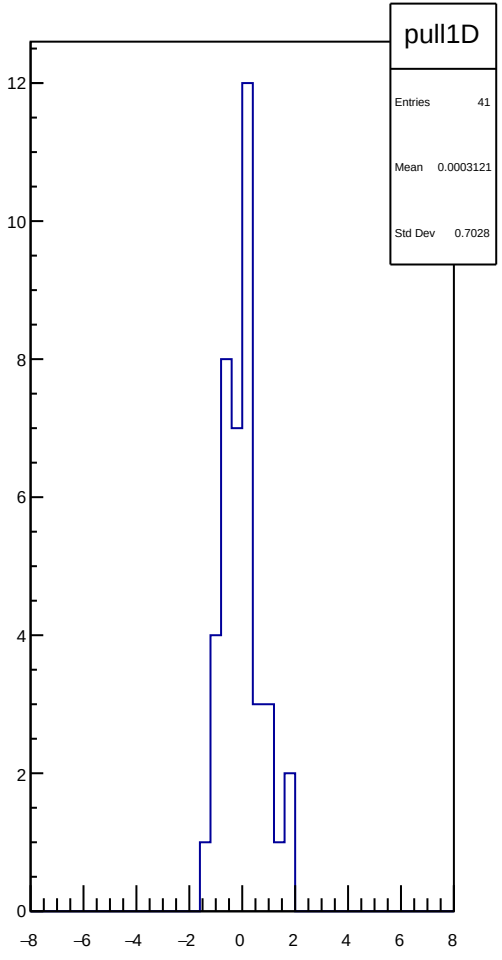

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.18 / 40
p0 14.63 ± 2.835
pull
Entries 41
Mean 868.7
Std Dev 0

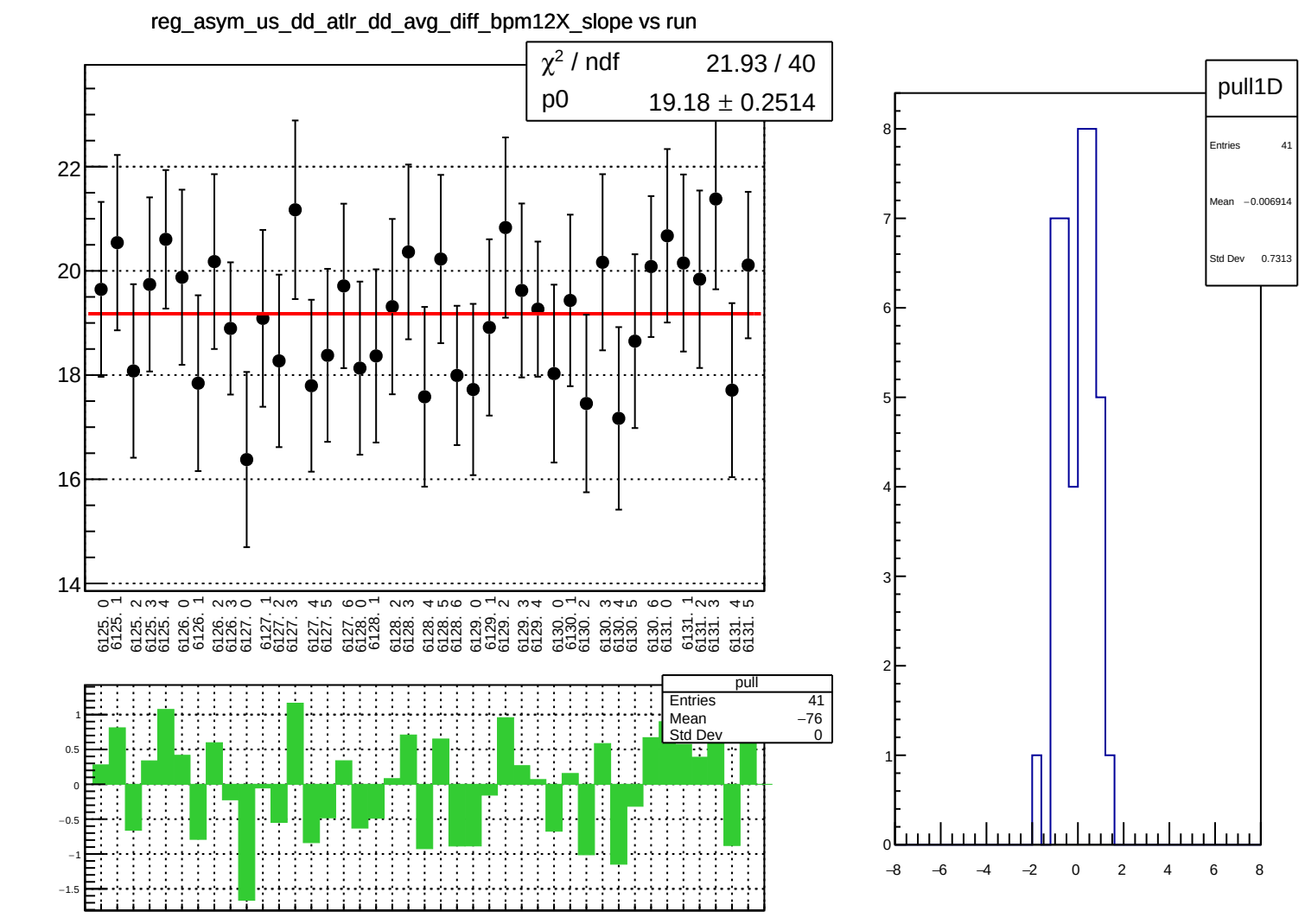

pull1D
Entries 41
Mean −0.001671
Std Dev 0.684

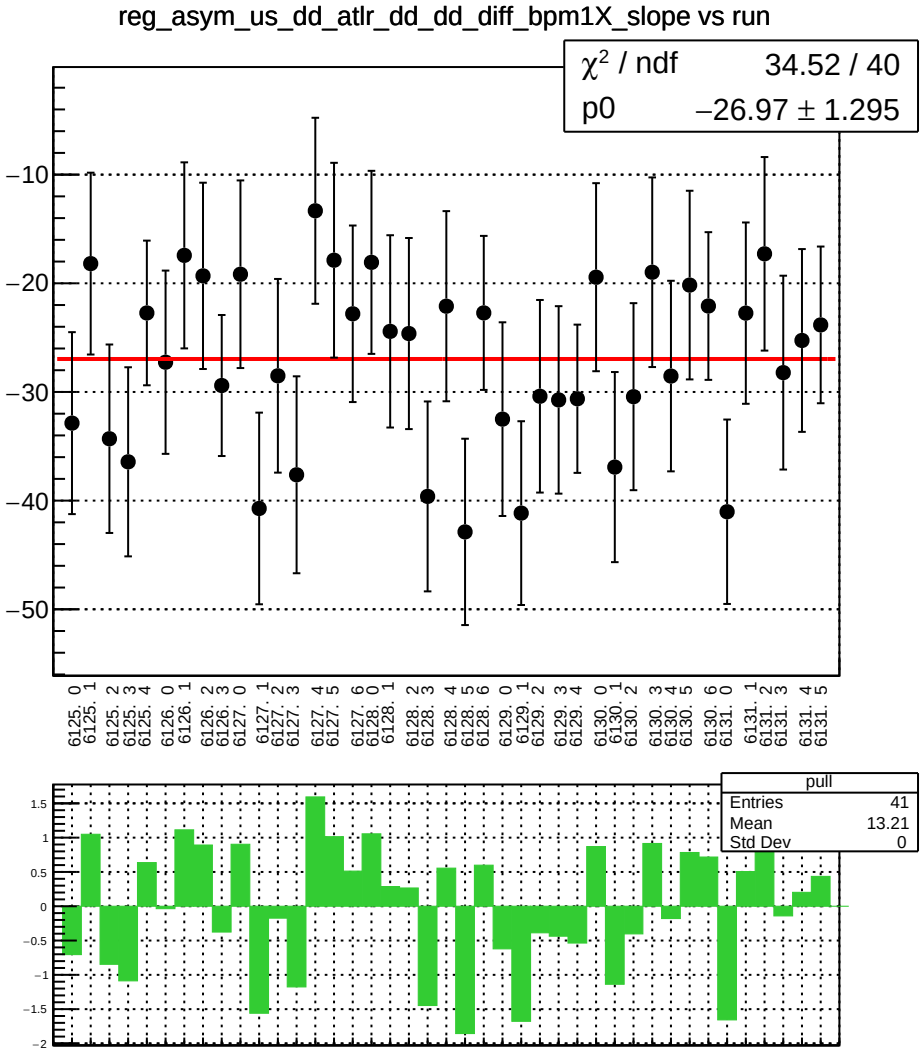

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.68 / 40
p0 −133.5 ± 3.202
pull
Entries 41
Mean 138.4
Std Dev 0

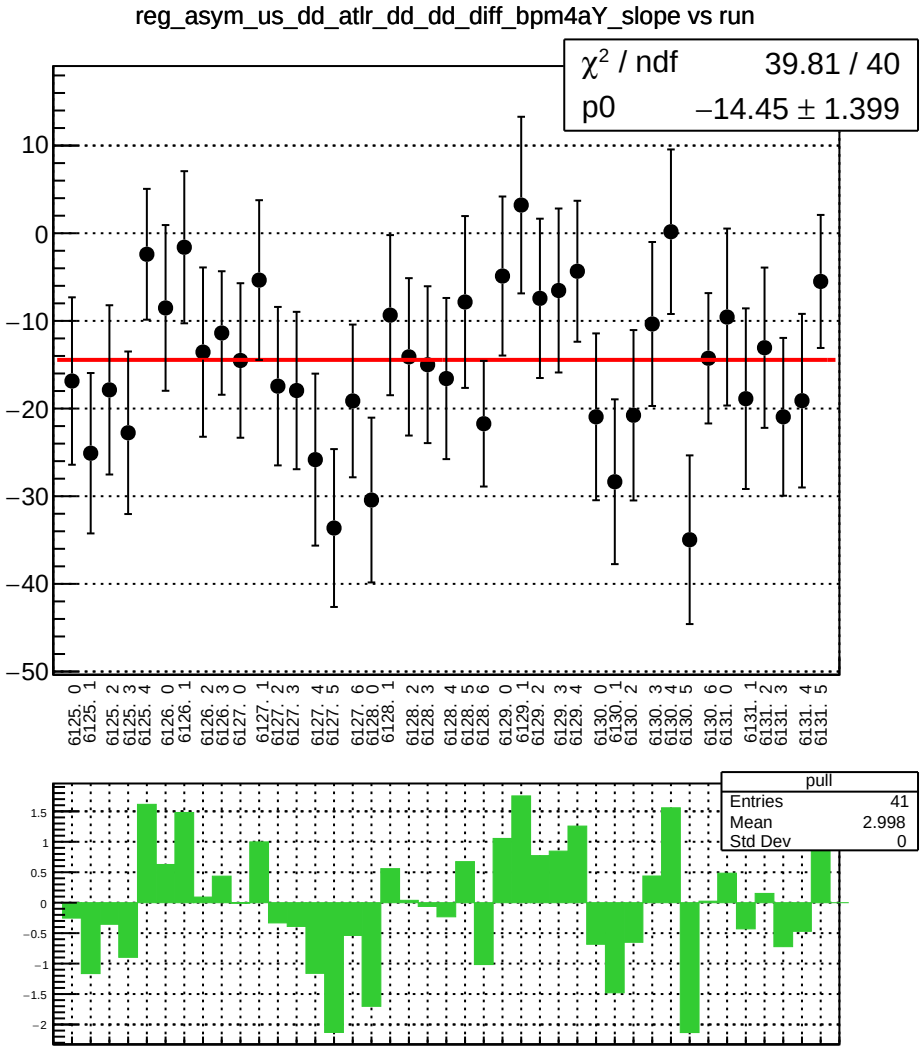

pull1D
Entries 41
Mean 0.01382
Std Dev 0.9063

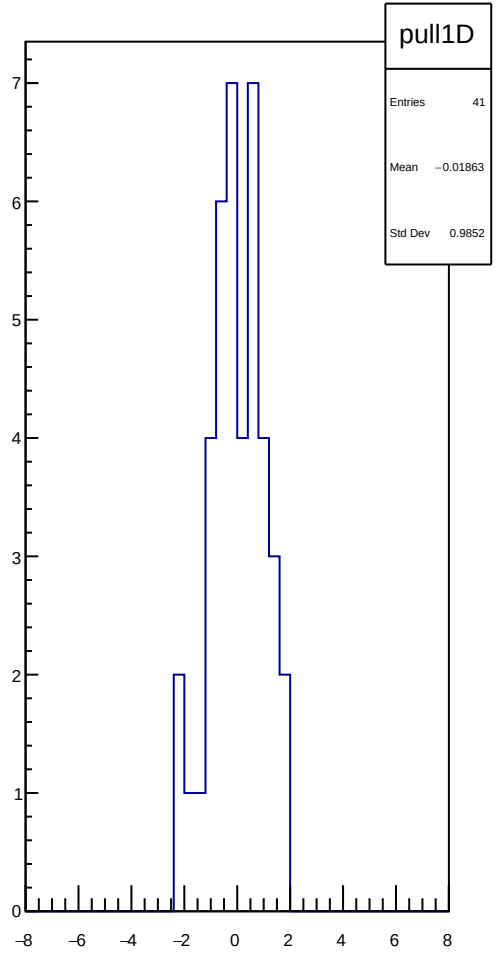

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.25 / 40
p0 −29.01 ± 3
pull
Entries 41
Mean 4040
Std Dev 0

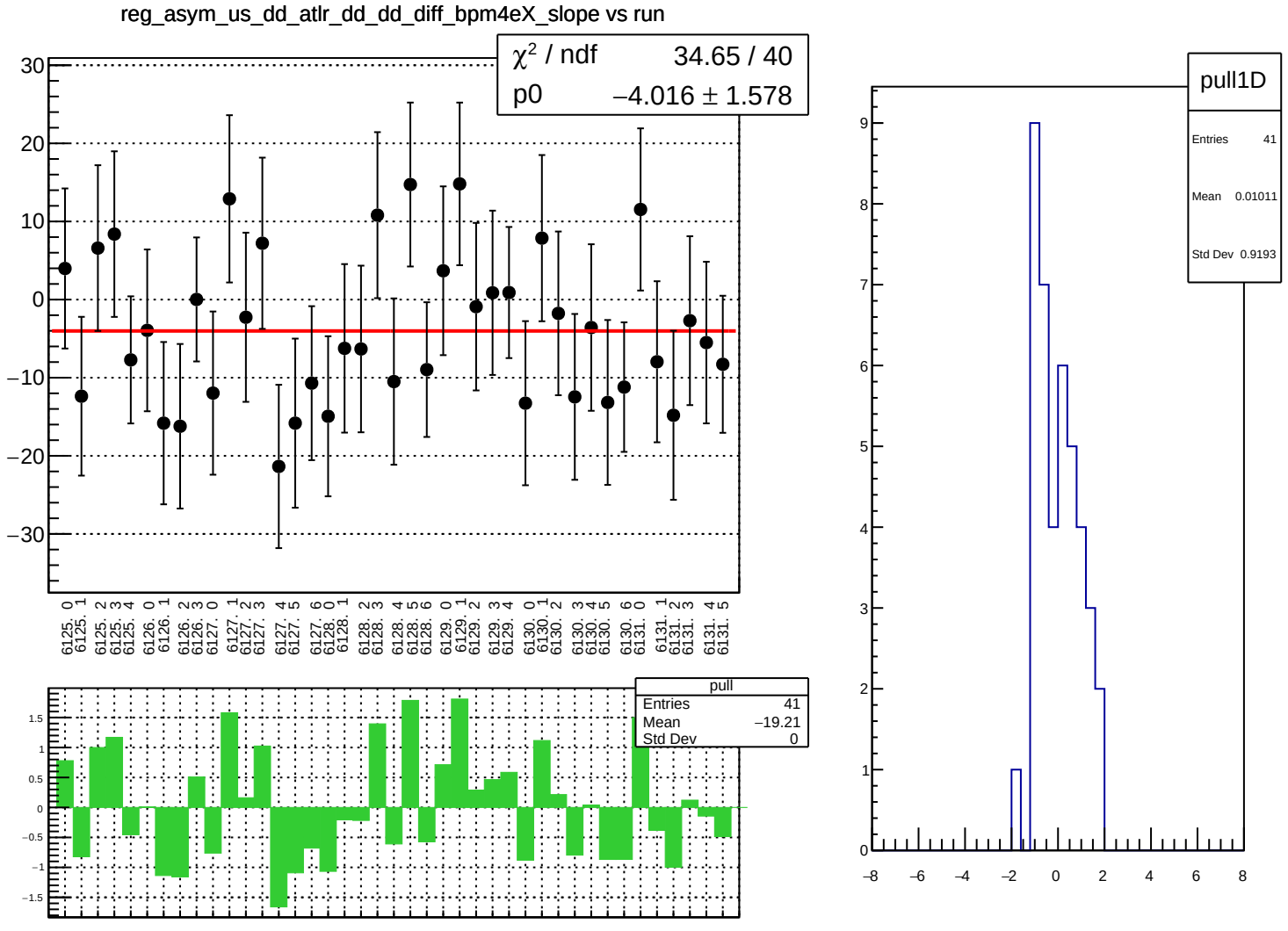

pull1D
Entries 41
Mean 0.0003121
Std Dev 0.7028

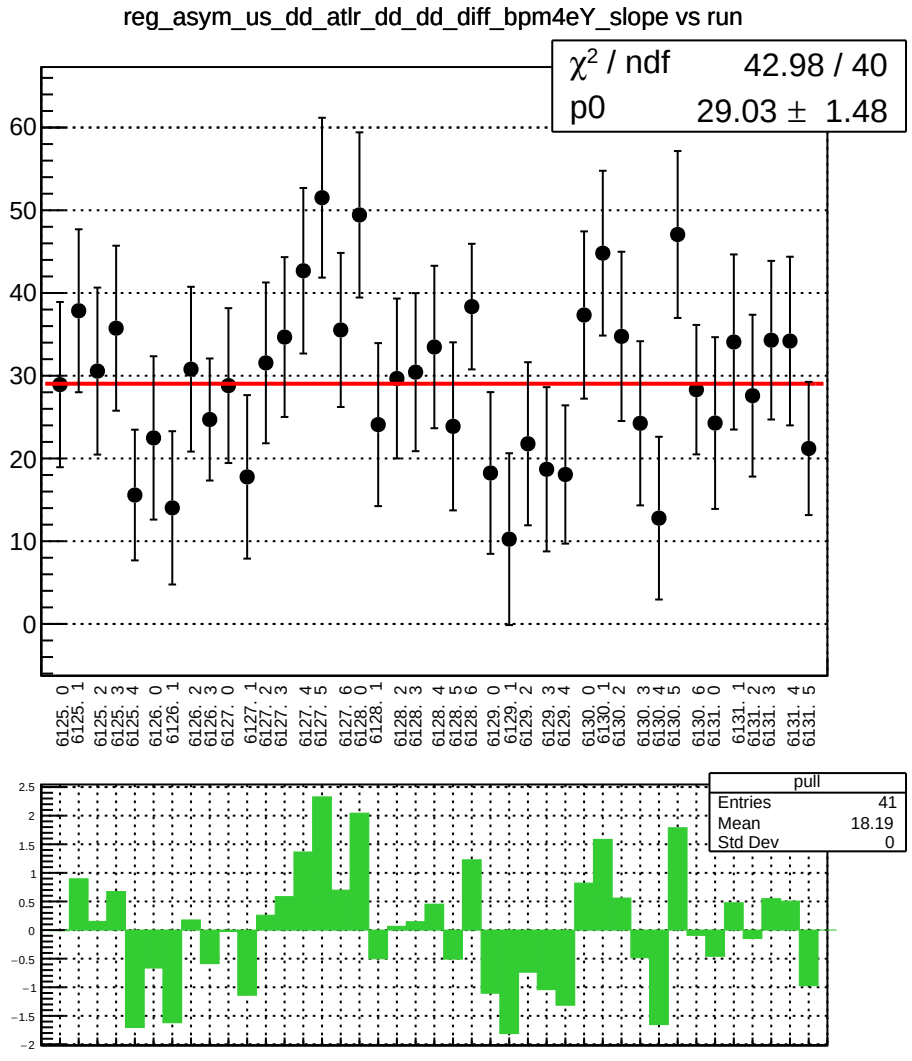

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 21.93 / 40
p0 19.18 ± 0.2514
22
20
18
16
14
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −76
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.006914
Std Dev 0.7313
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

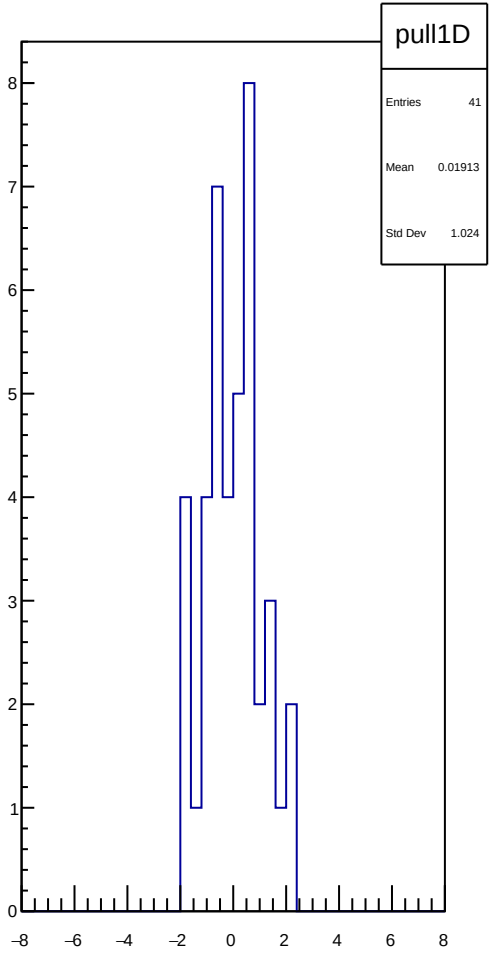

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 34.52 / 40
p0 −26.97 ± 1.295
pull
Entries 41
Mean 13.21
Std Dev 0
pull1D
Entries 41
Mean −0.01086
Std Dev 0.9175

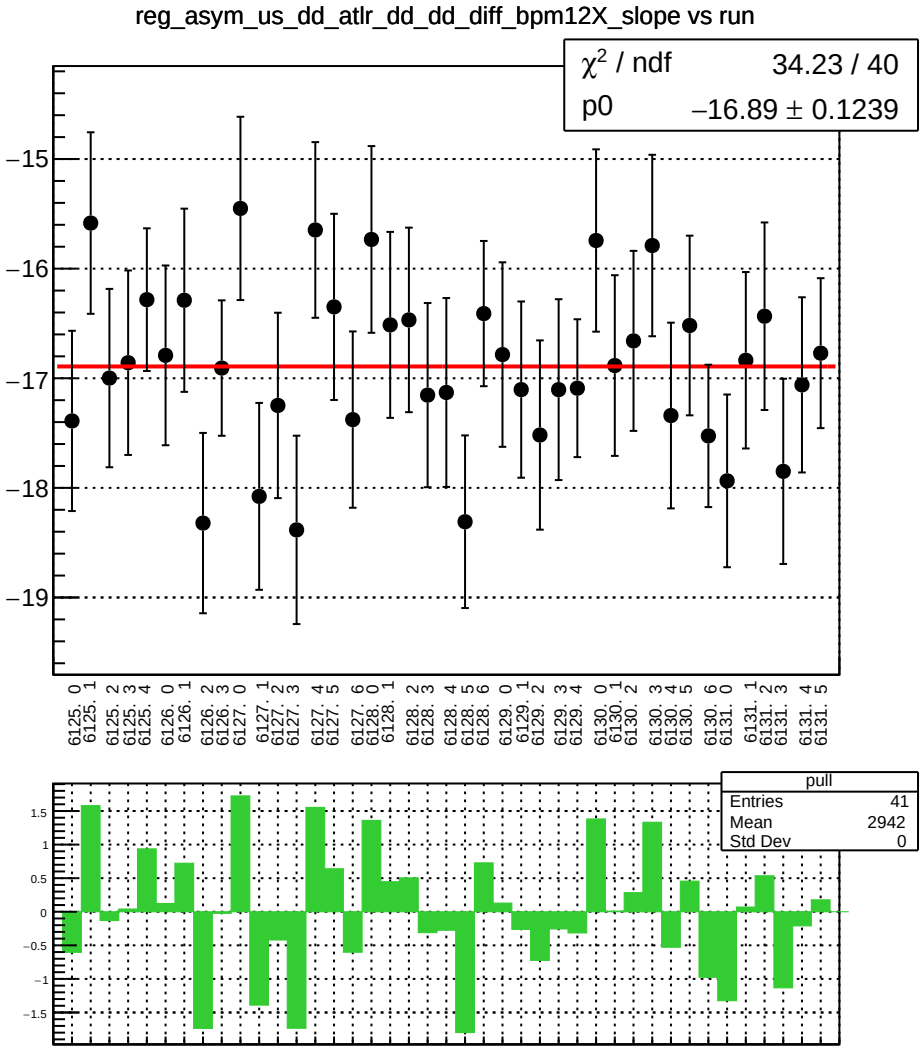

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 39.81 / 40
p0 −14.45 ± 1.399
pull
Entries 41
Mean 2.998
Std Dev 0

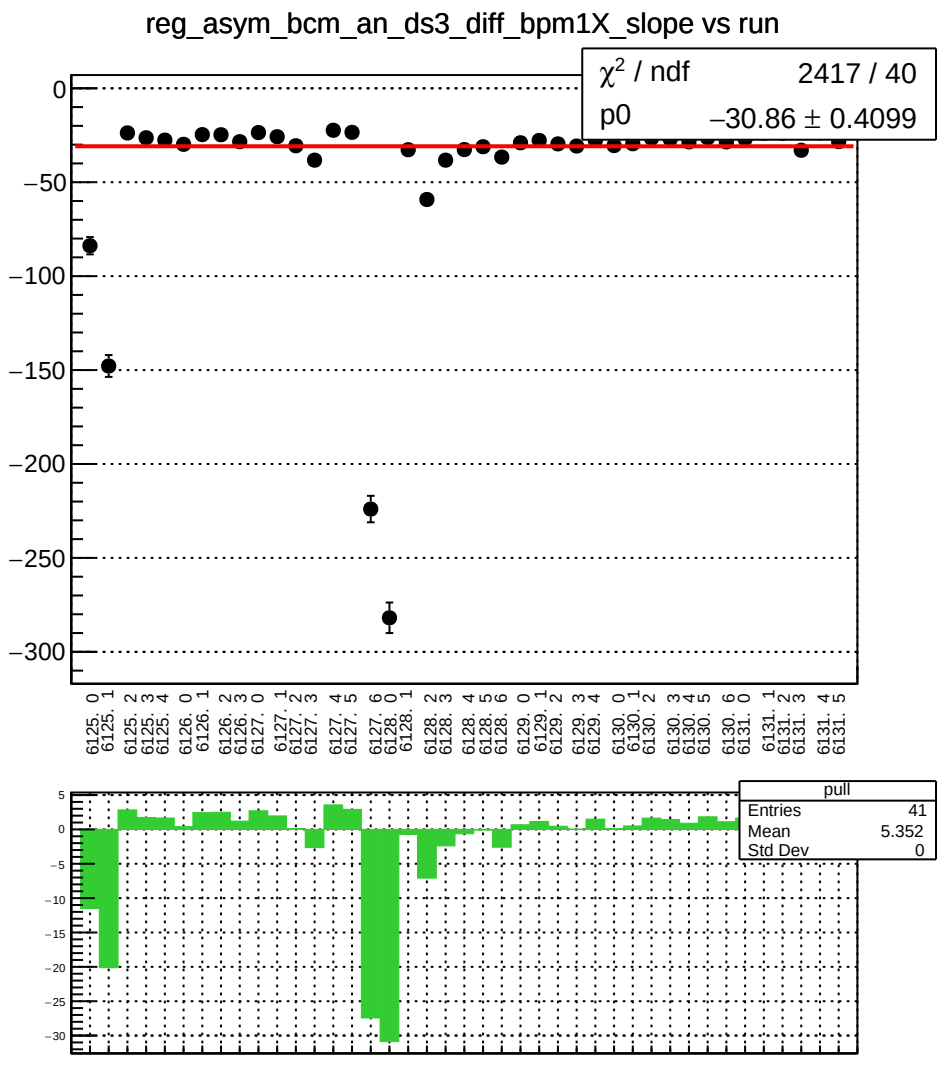

pull1D
Entries 41
Mean −0.01863
Std Dev 0.9852

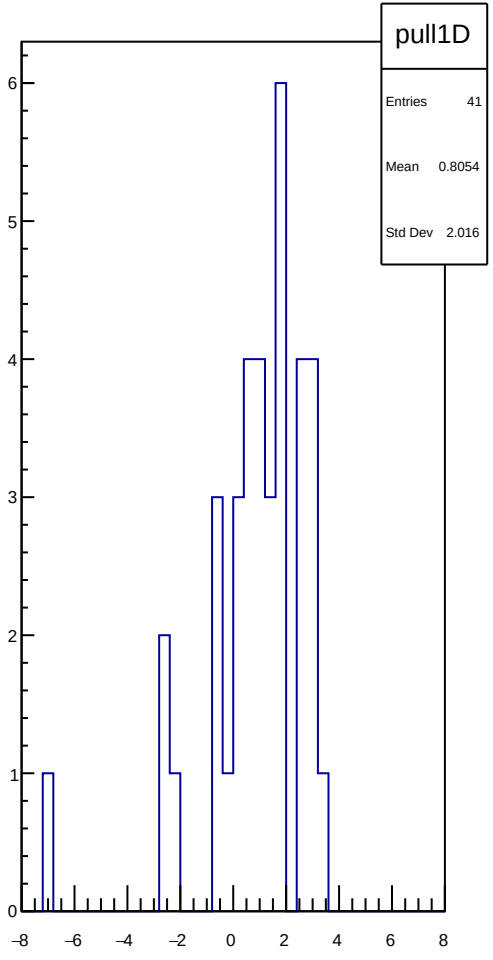

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.65 / 40
p0 −4.016 ± 1.578
pull
Entries 41
Mean −19.21
Std Dev 0
pull1D
Entries 41
Mean 0.01011
Std Dev 0.9193

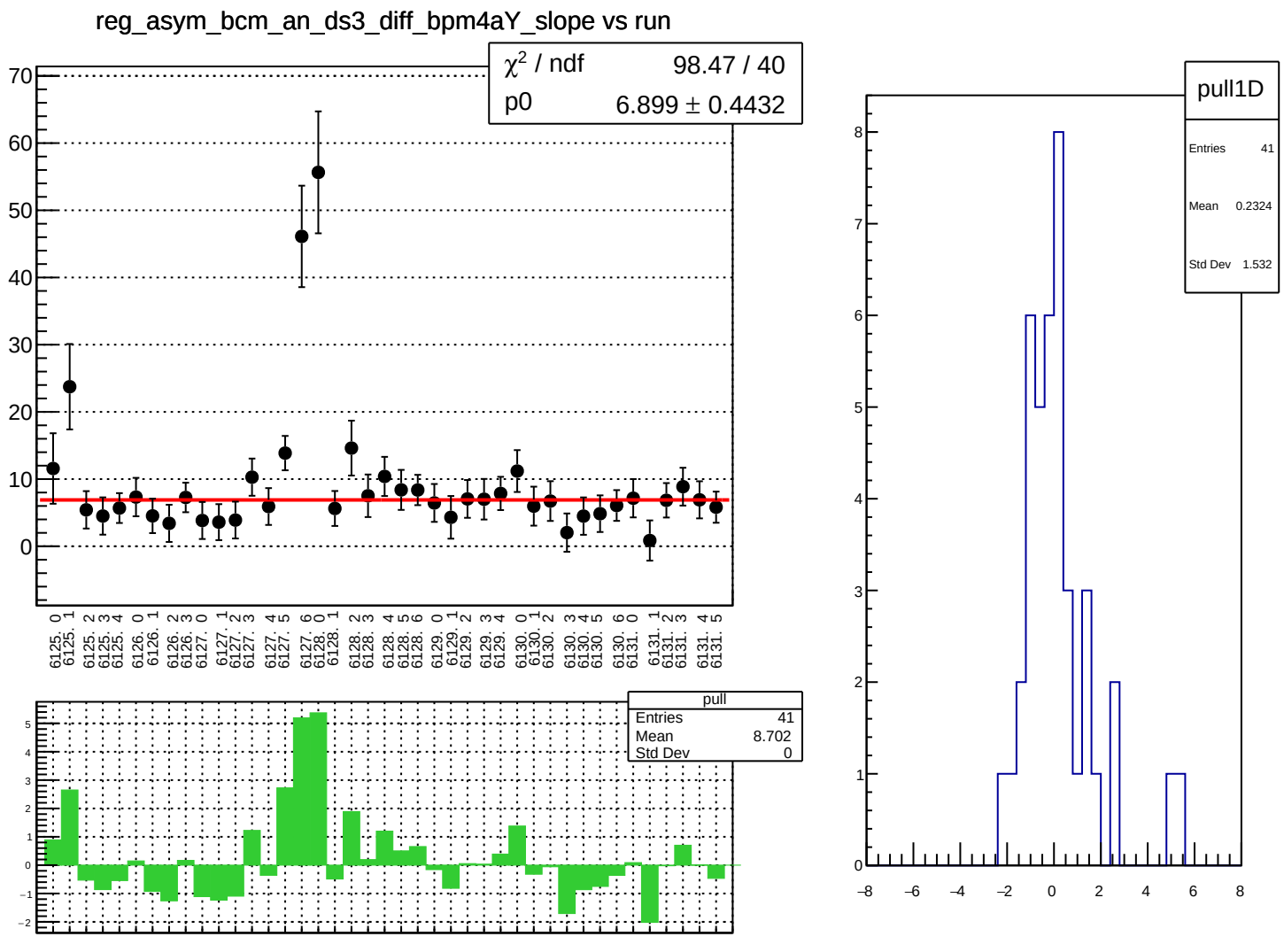

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 42.98 / 40
p0 29.03 ± 1.48
pull
Entries 41
Mean 18.19
Std Dev 0

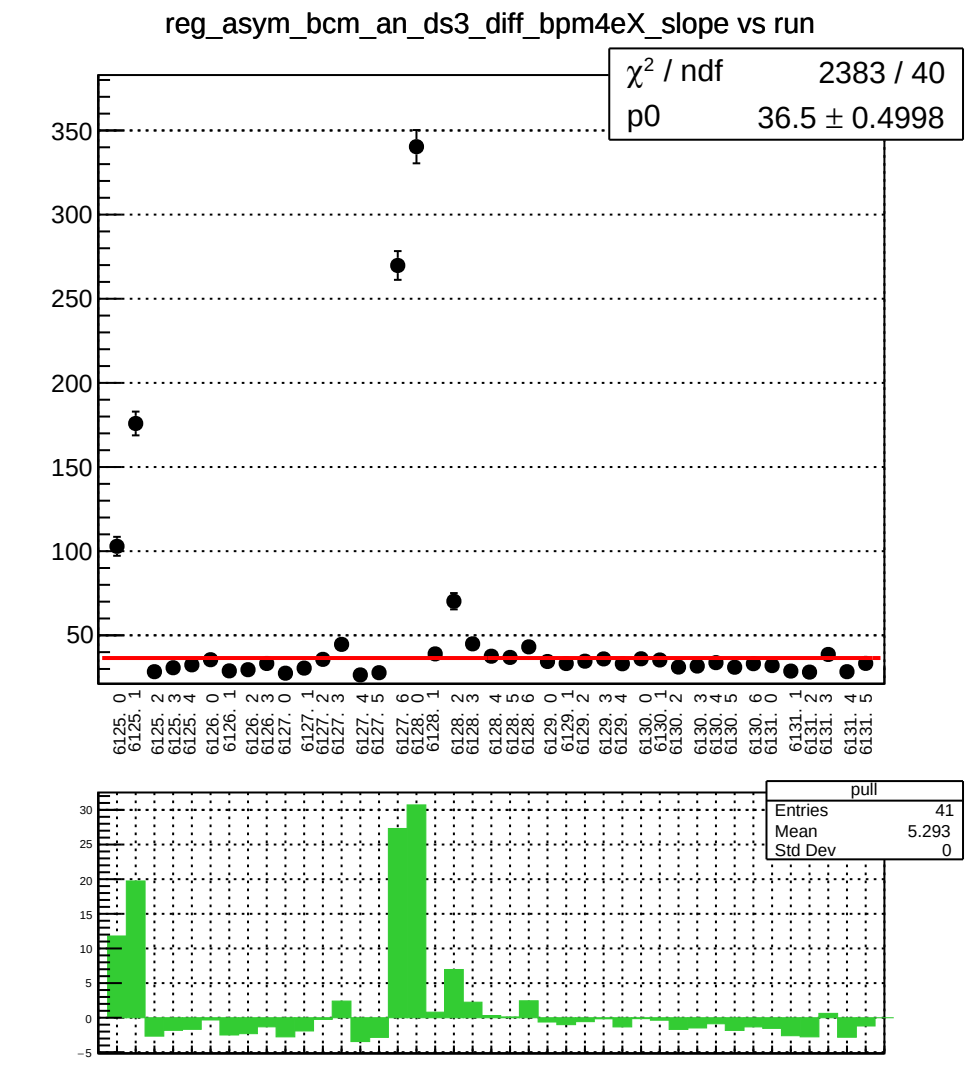

pull1D
Entries 41
Mean 0.01913
Std Dev 1.024

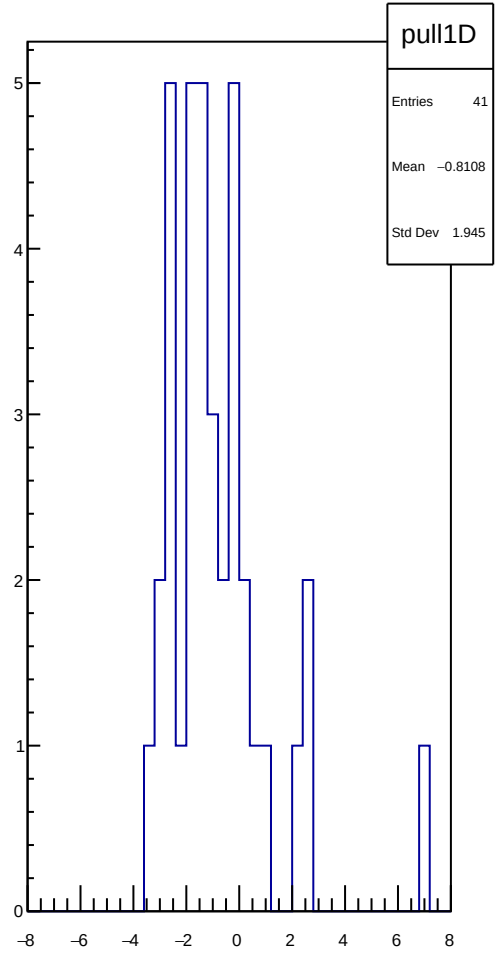

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 34.23 / 40
p0 −16.89 ± 0.1239
−15
−16
−17
−18
−19
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 2942
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.0004277
Std Dev 0.9137
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

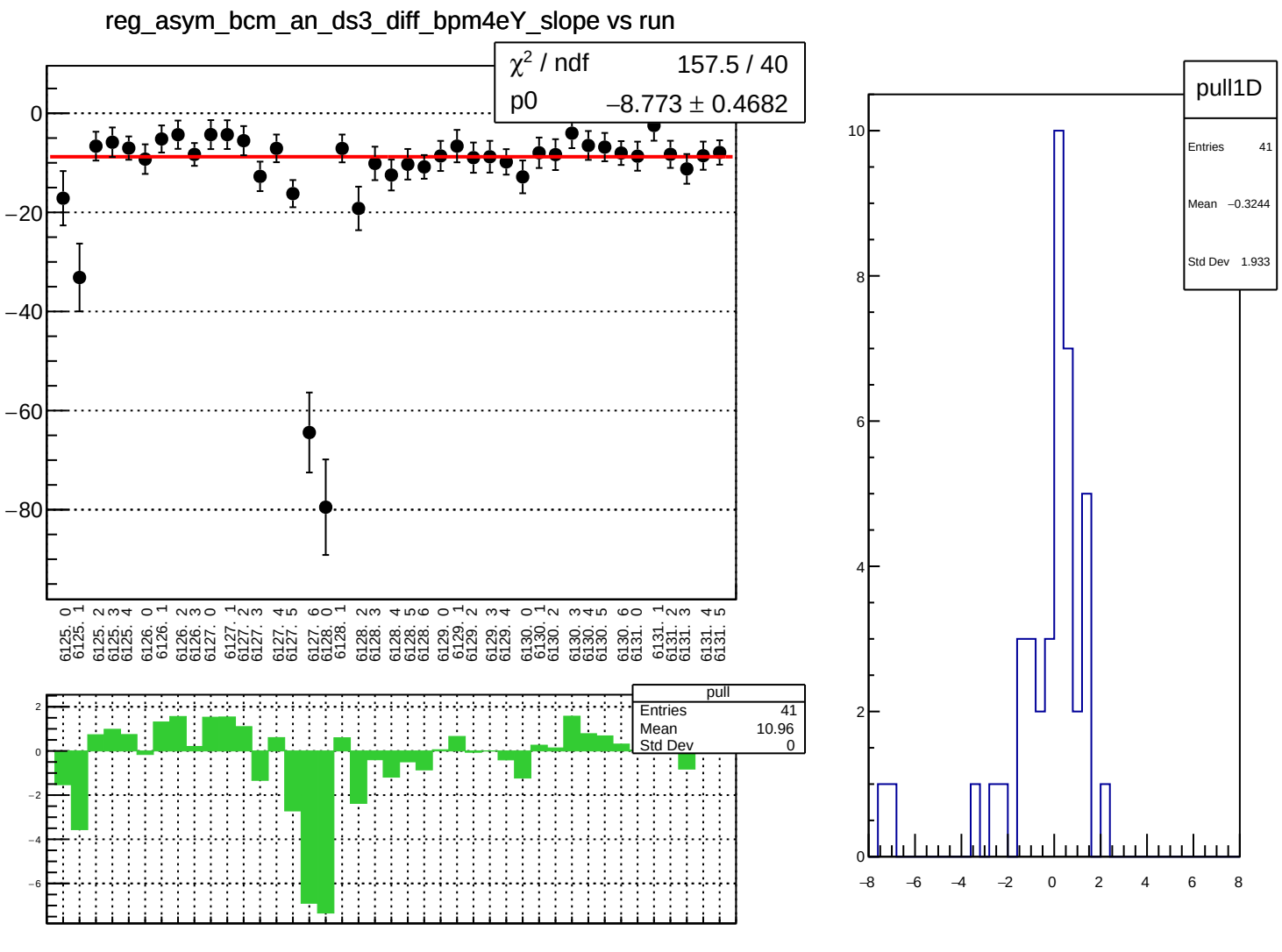

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 2417 / 40
p0 −30.86 ± 0.4099
pull
Entries 41
Mean 5.352
Std Dev 0

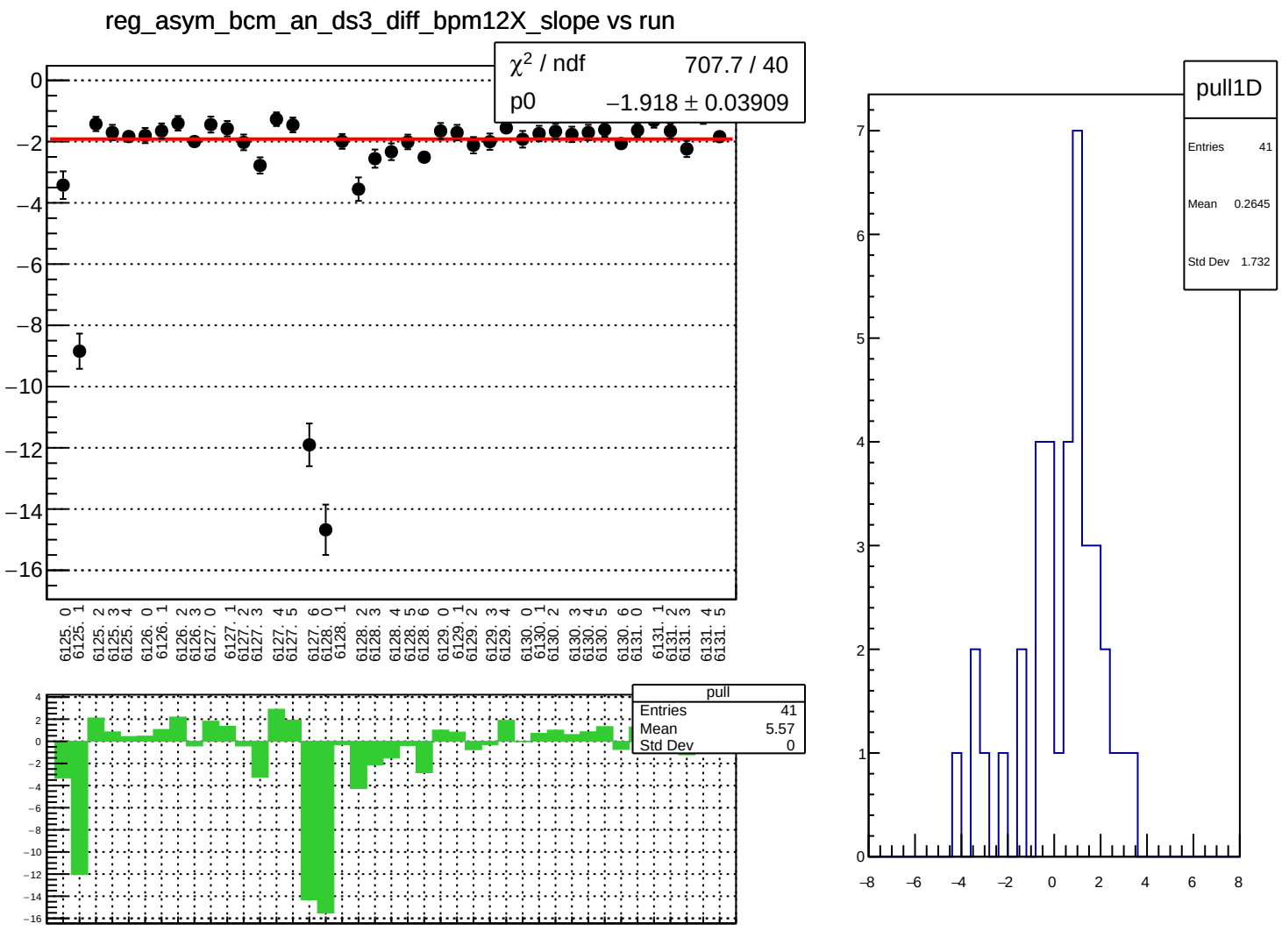

pull1D
Entries 41
Mean 0.8054
Std Dev 2.016

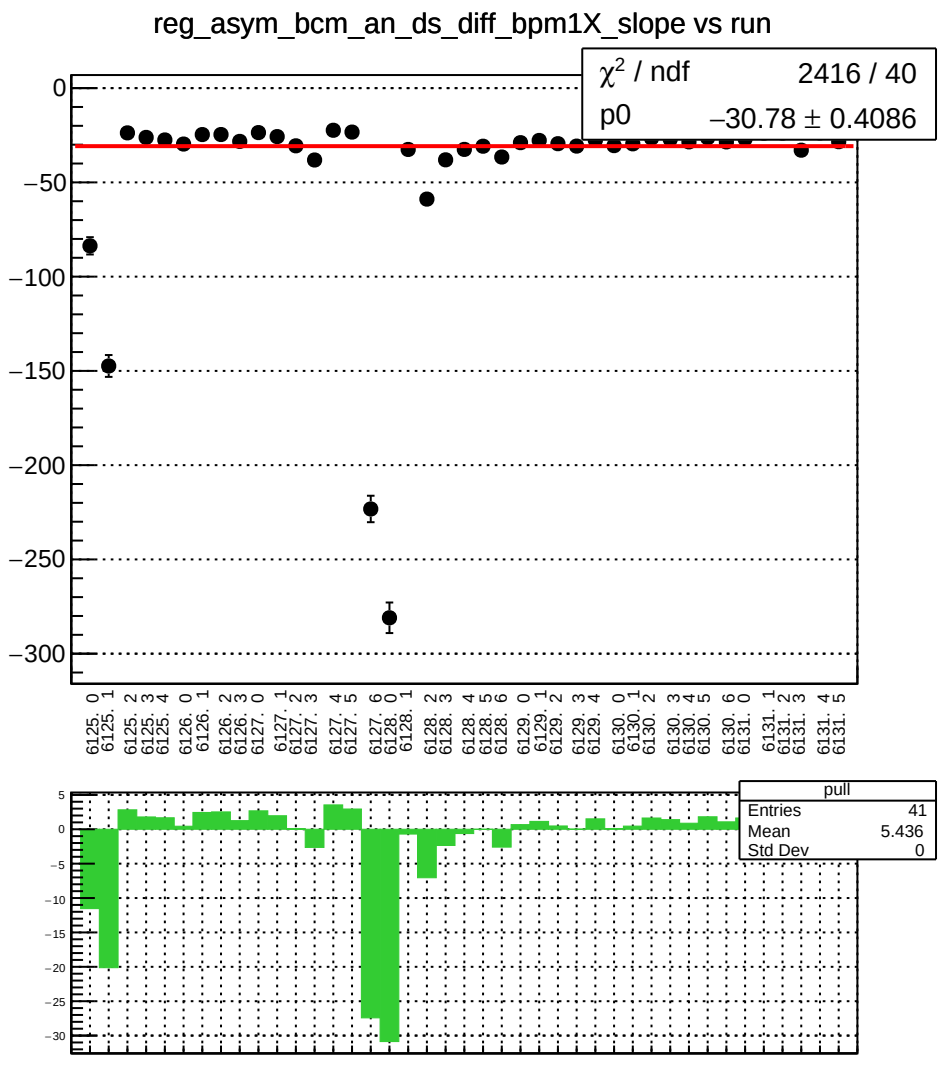

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 98.47 / 40
p0 6.899 ± 0.4432
pull
Entries 41
Mean 8.702
Std Dev 0
pull1D
Entries 41
Mean 0.2324
Std Dev 1.532

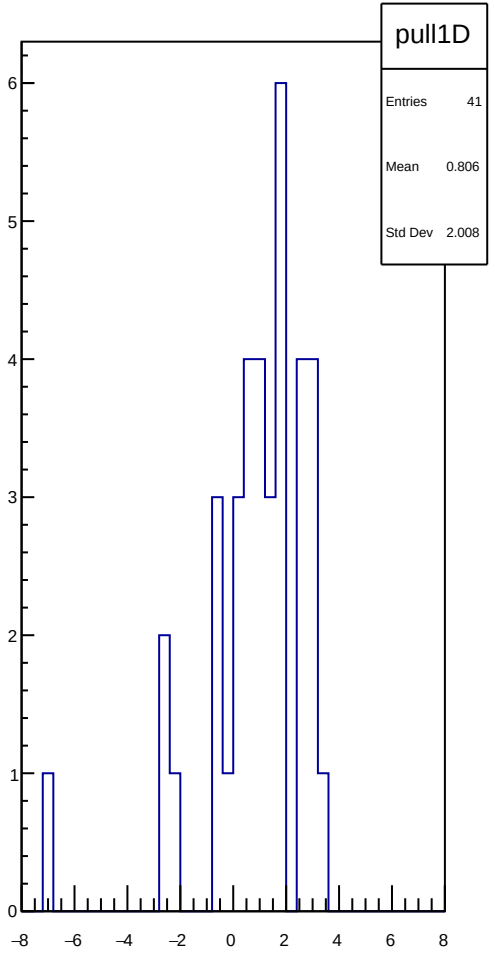

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 2383 / 40
p0 36.5 ± 0.4998
pull
Entries 41
Mean 5.293
Std Dev 0

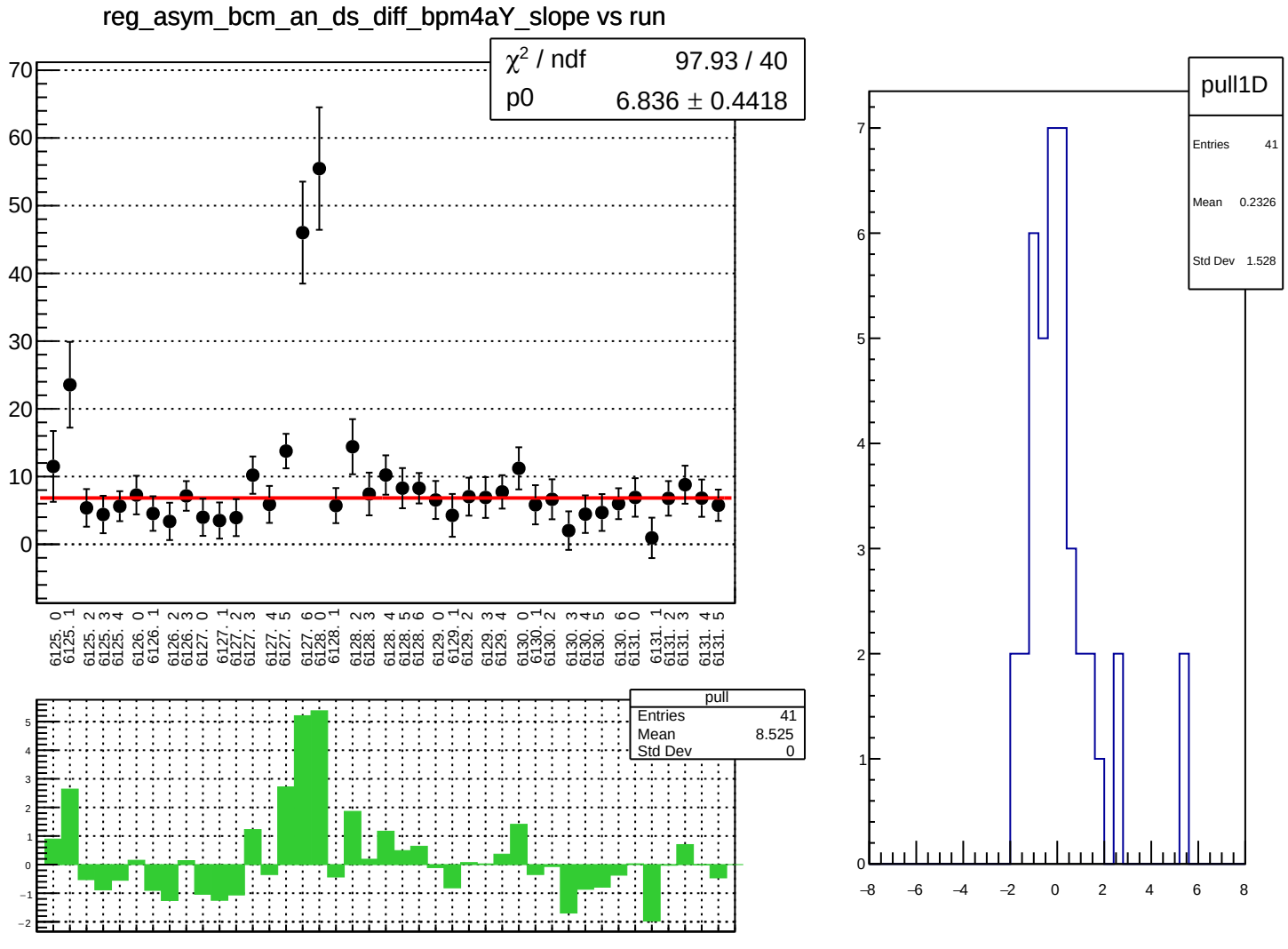

pull1D
Entries 41
Mean −0.8108
Std Dev 1.945

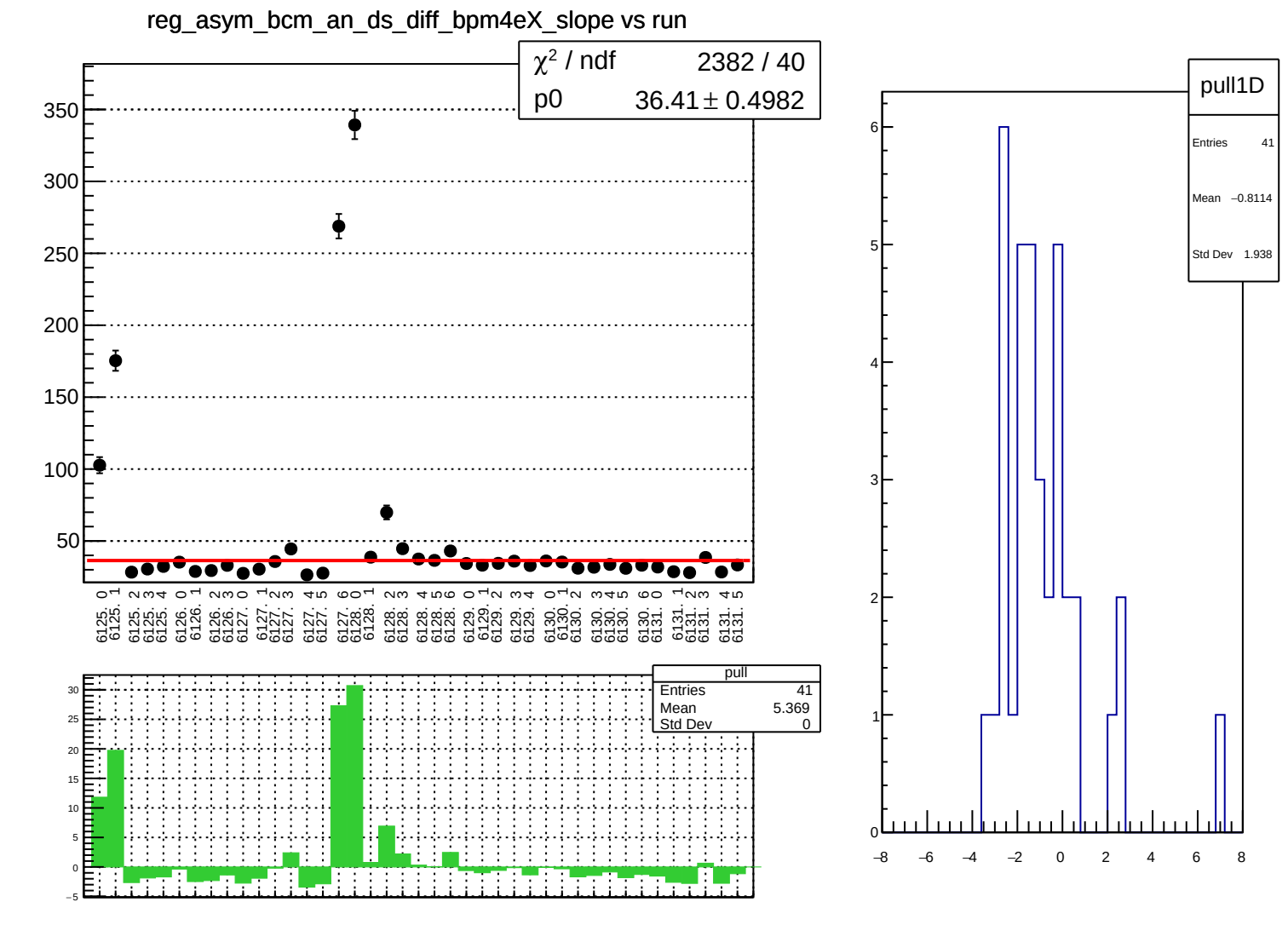

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 157.5 / 40
p0 −8.773 ± 0.4682
0
−20
−40
−60
−80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 10.96
Std Dev 0
2
0
−2
−4
−6
pull1D
Entries 41
Mean −0.3244
Std Dev 1.933
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

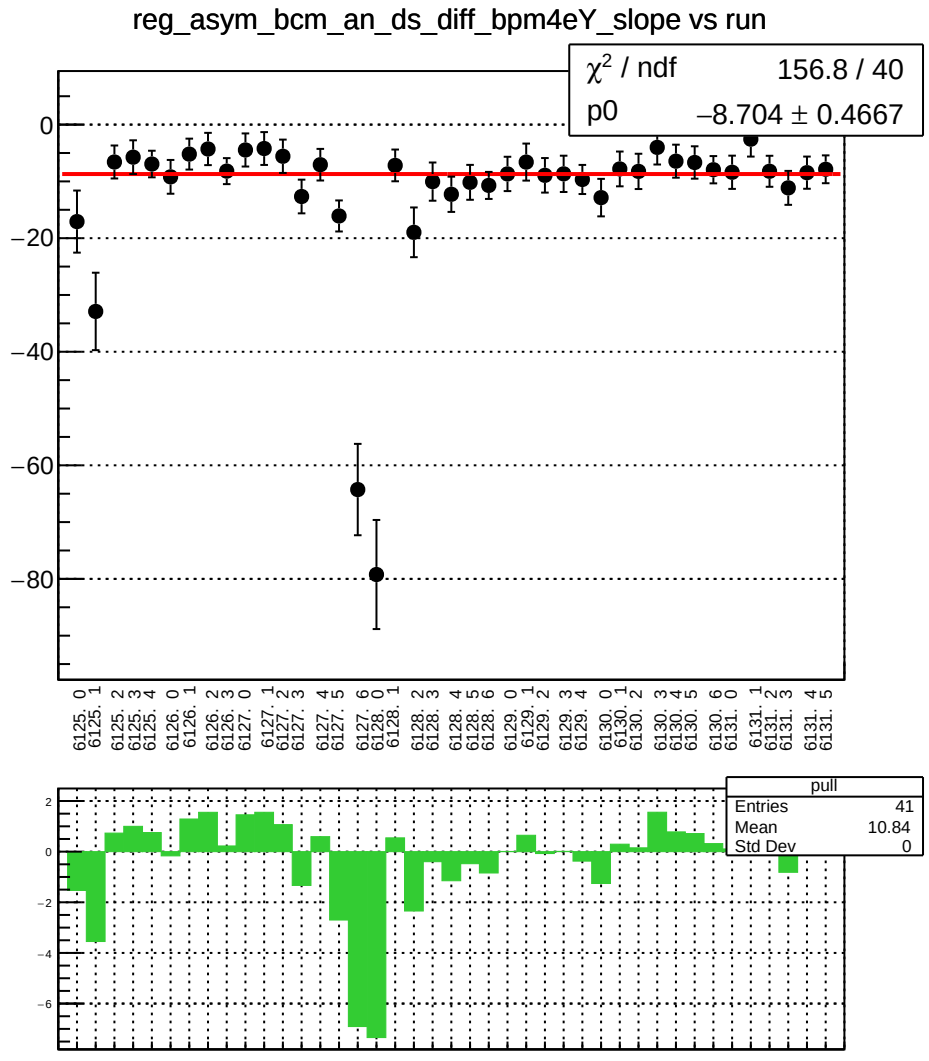

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 707.7 / 40
p0 −1.918 ± 0.03909
pull
Entries 41
Mean 5.57
Std Dev 0
pull1D
Entries 41
Mean 0.2645
Std Dev 1.732

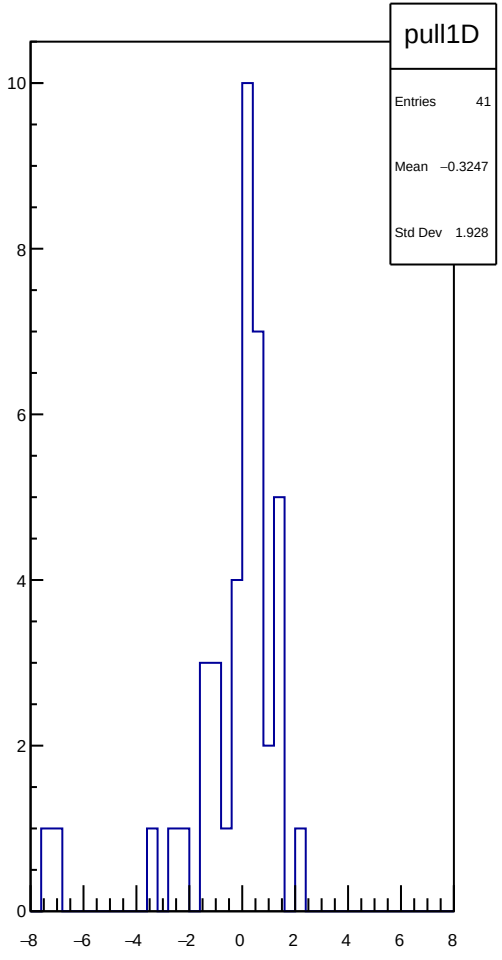

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 2416 / 40
p0 −30.78 ± 0.4086
pull
Entries 41
Mean 5.436
Std Dev 0

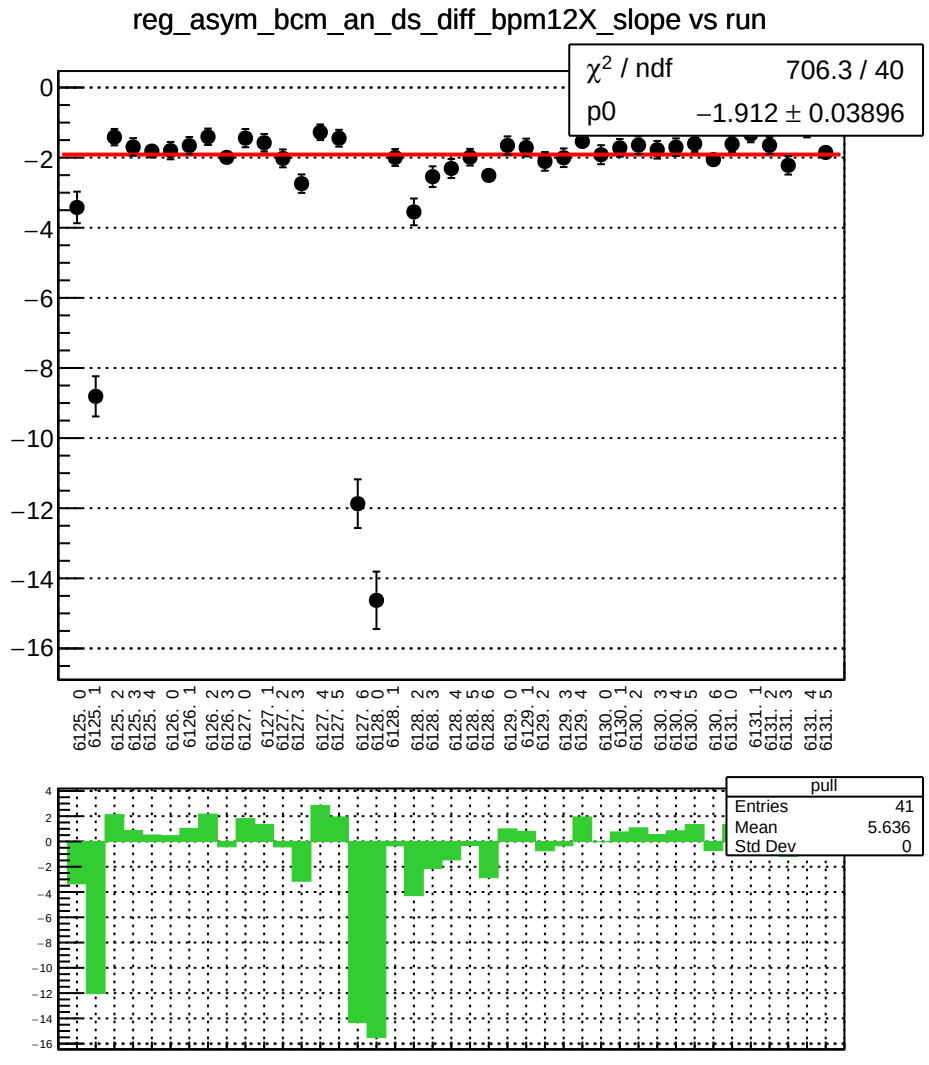

pull1D
Entries 41
Mean 0.806
Std Dev 2.008

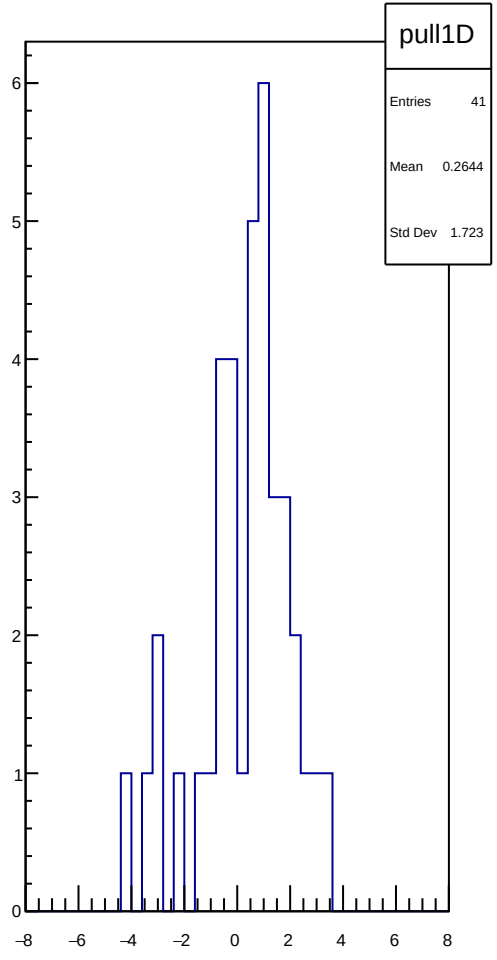

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 97.93 / 40
p0 6.836 ± 0.4418
pull
Entries 41
Mean 8.525
Std Dev 0
pull1D
Entries 41
Mean 0.2326
Std Dev 1.528

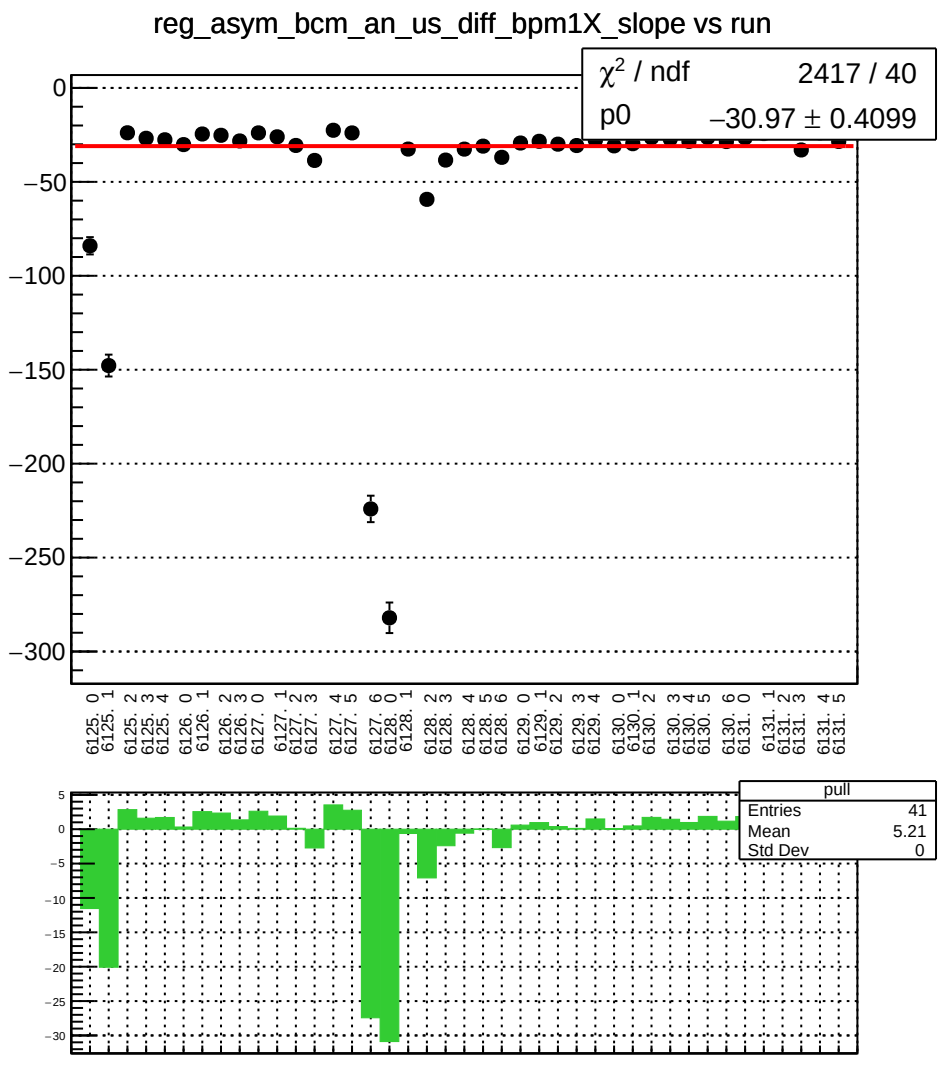

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 2382 / 40
p0 36.41 ± 0.4982
pull
Entries 41
Mean 5.369
Std Dev 0
pull1D
Entries 41
Mean −0.8114
Std Dev 1.938

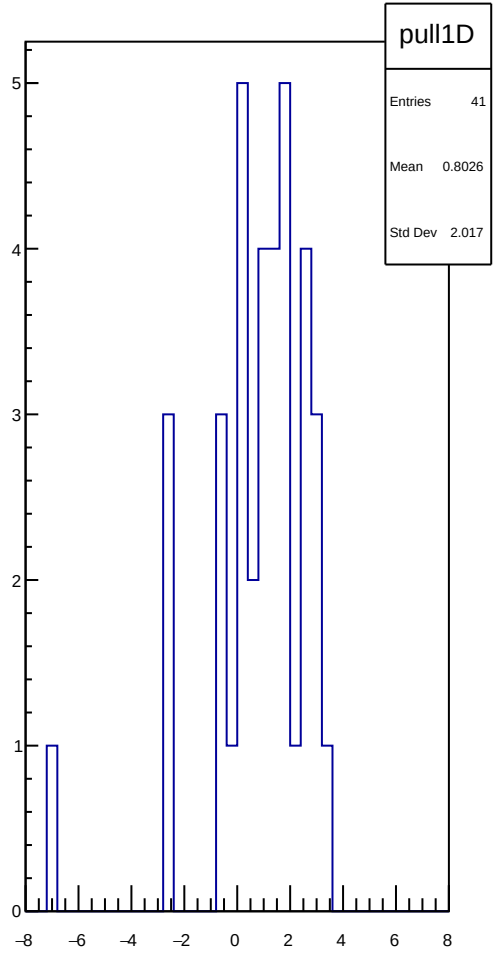

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 156.8 / 40
p0 −8.704 ± 0.4667
0
−20
−40
−60
−80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 10.84
Std Dev 0
2
0
−2
−4
−6

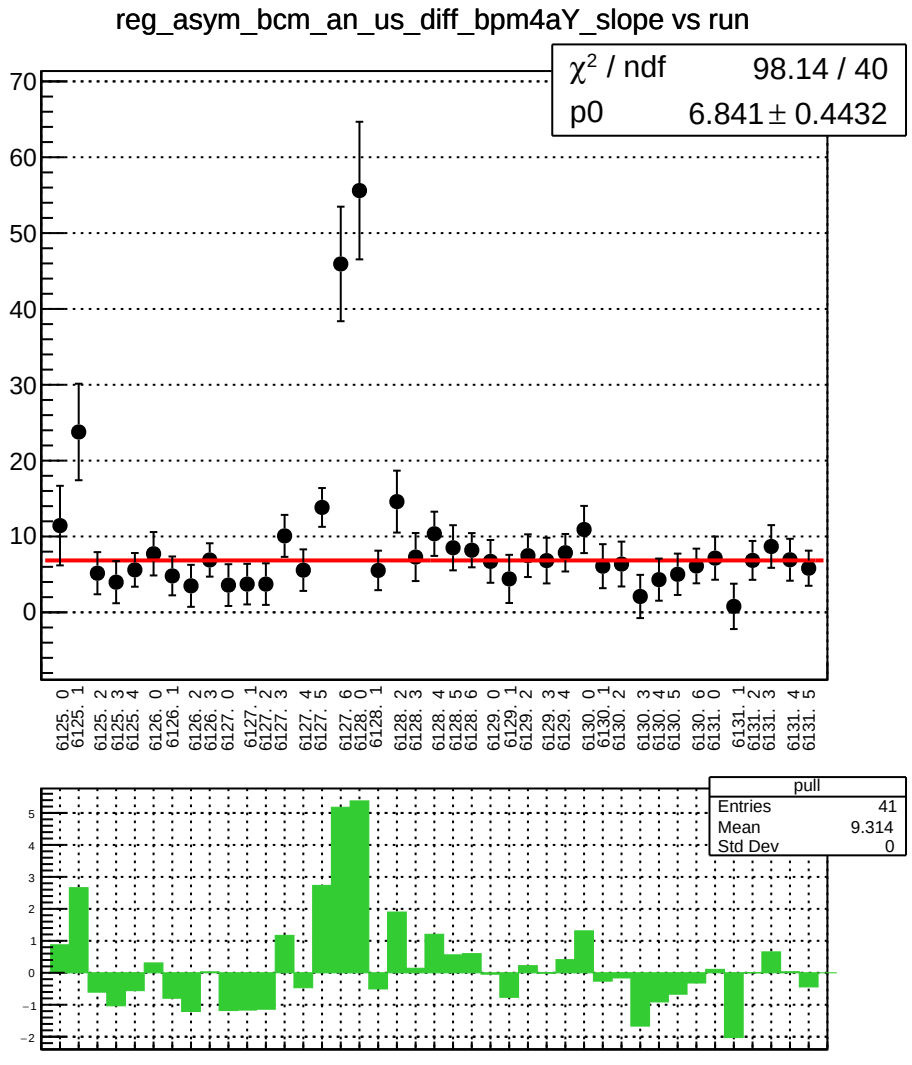

pull1D
Entries 41
Mean −0.3247
Std Dev 1.928
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

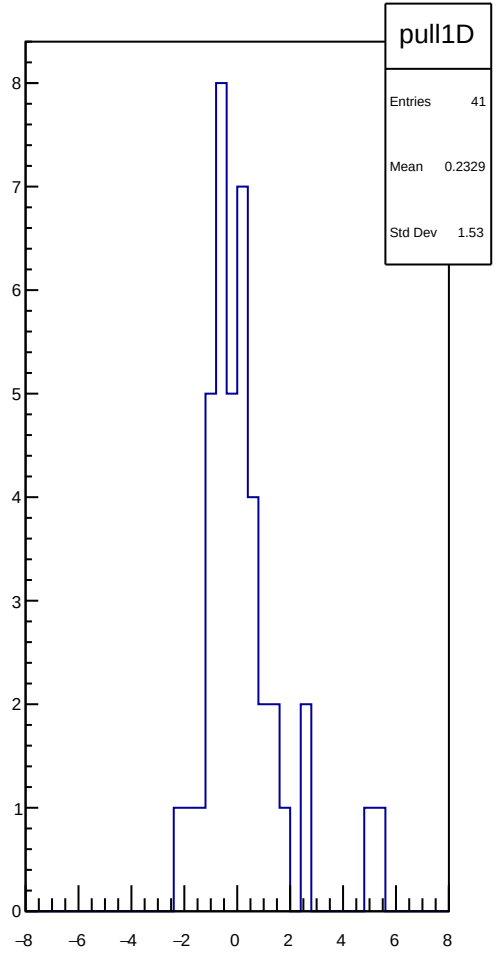

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 706.3 / 40
p0 −1.912 ± 0.03896
pull
Entries 41
Mean 5.636
Std Dev 0

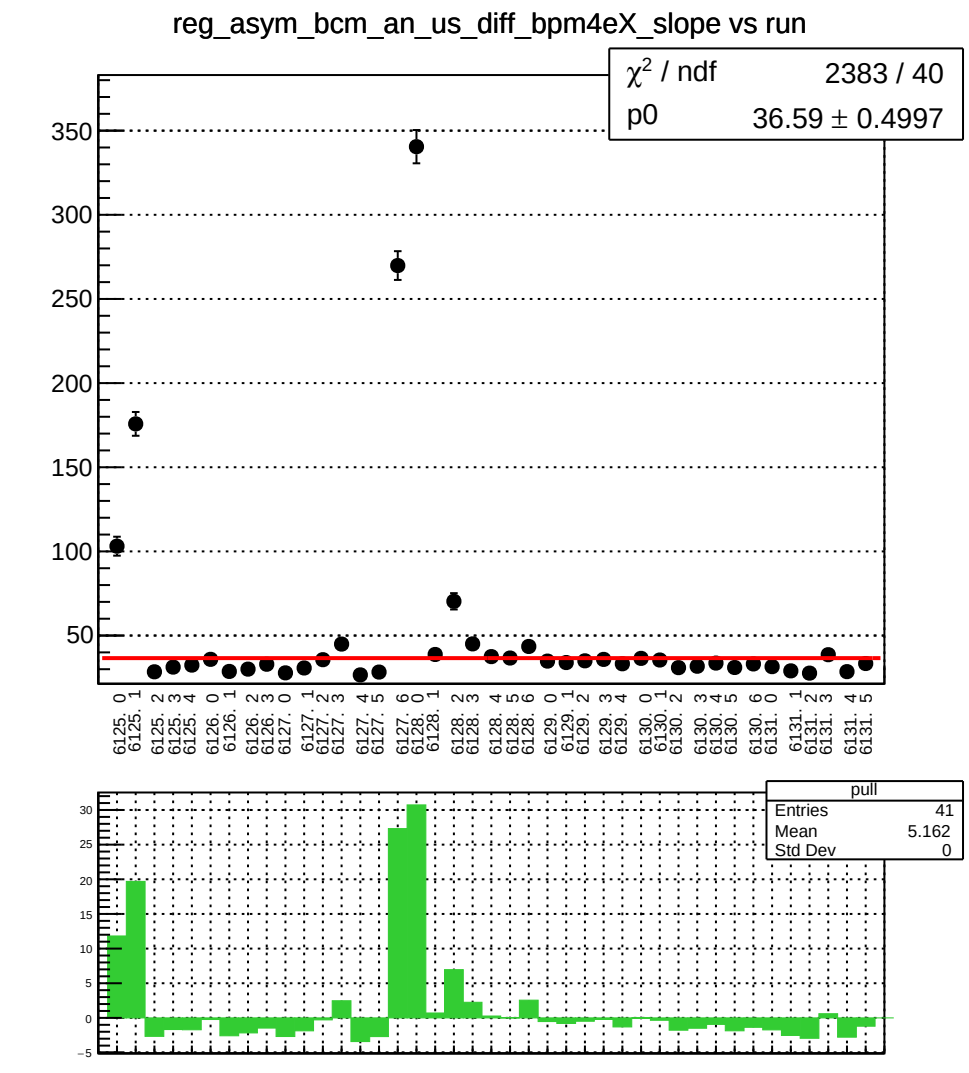

pull1D
Entries 41
Mean 0.2644
Std Dev 1.723

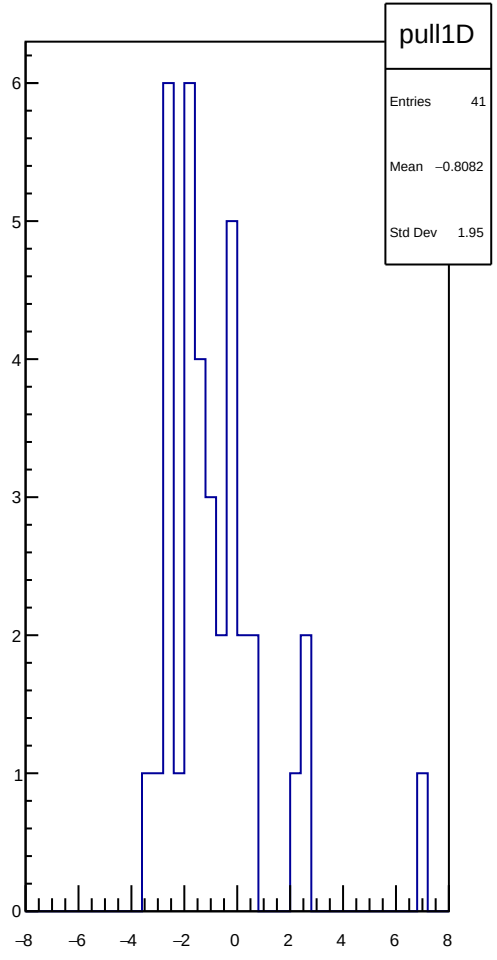

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 2417 / 40
p0 −30.97 ± 0.4099
pull
Entries 41
Mean 5.21
Std Dev 0

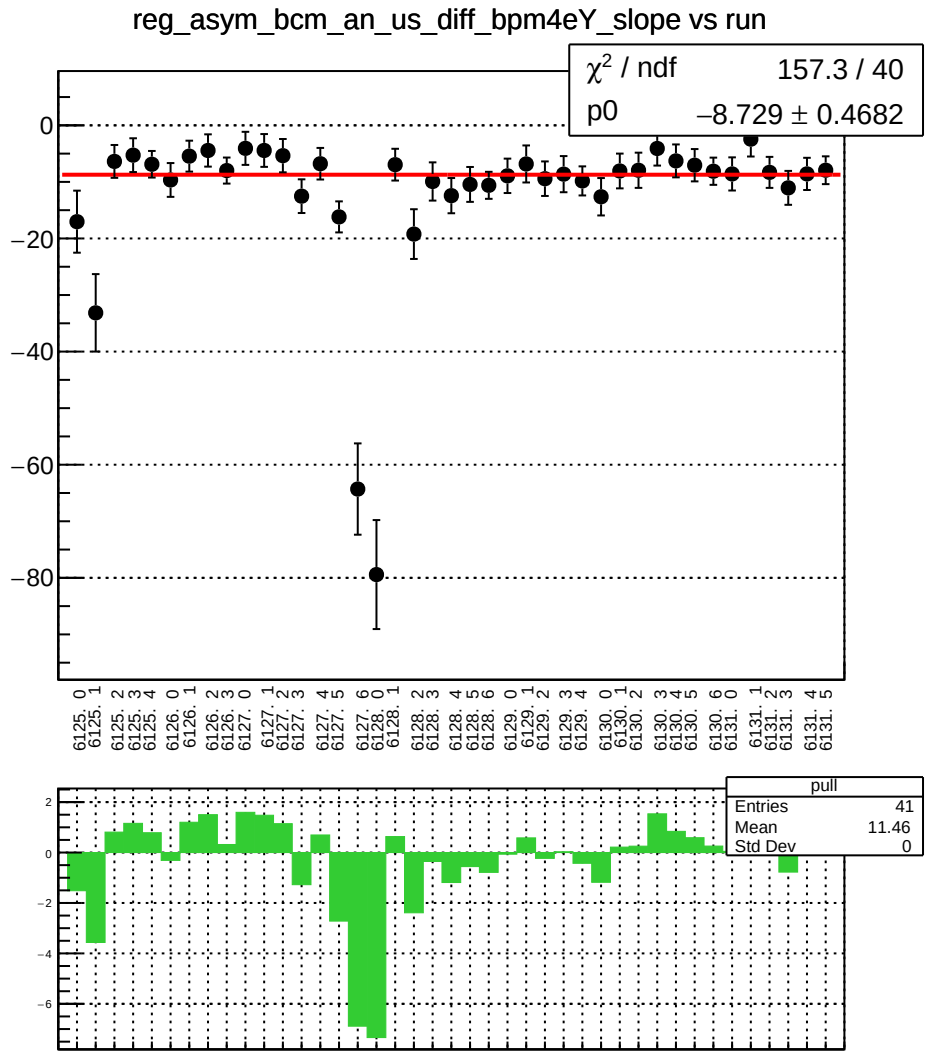

pull1D
Entries 41
Mean 0.8026
Std Dev 2.017

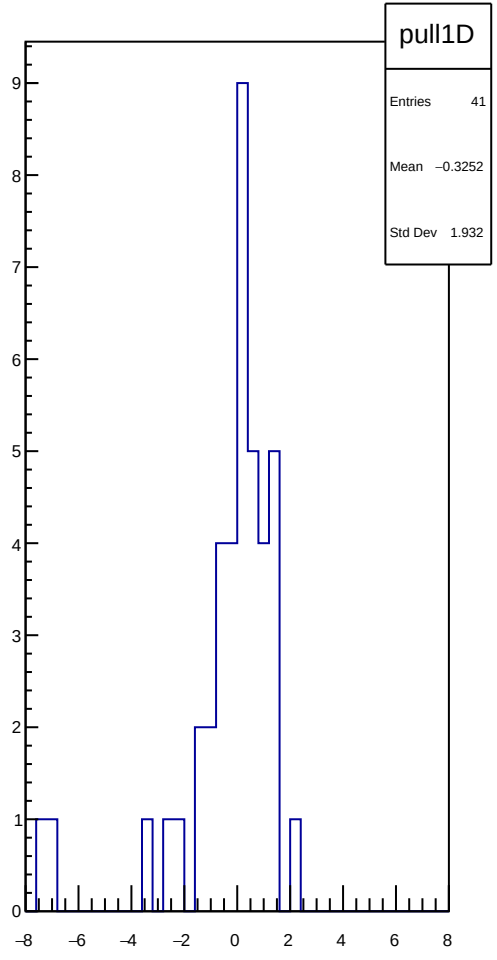

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 98.14 / 40
p0 6.841 ± 0.4432
pull
Entries 41
Mean 9.314
Std Dev 0

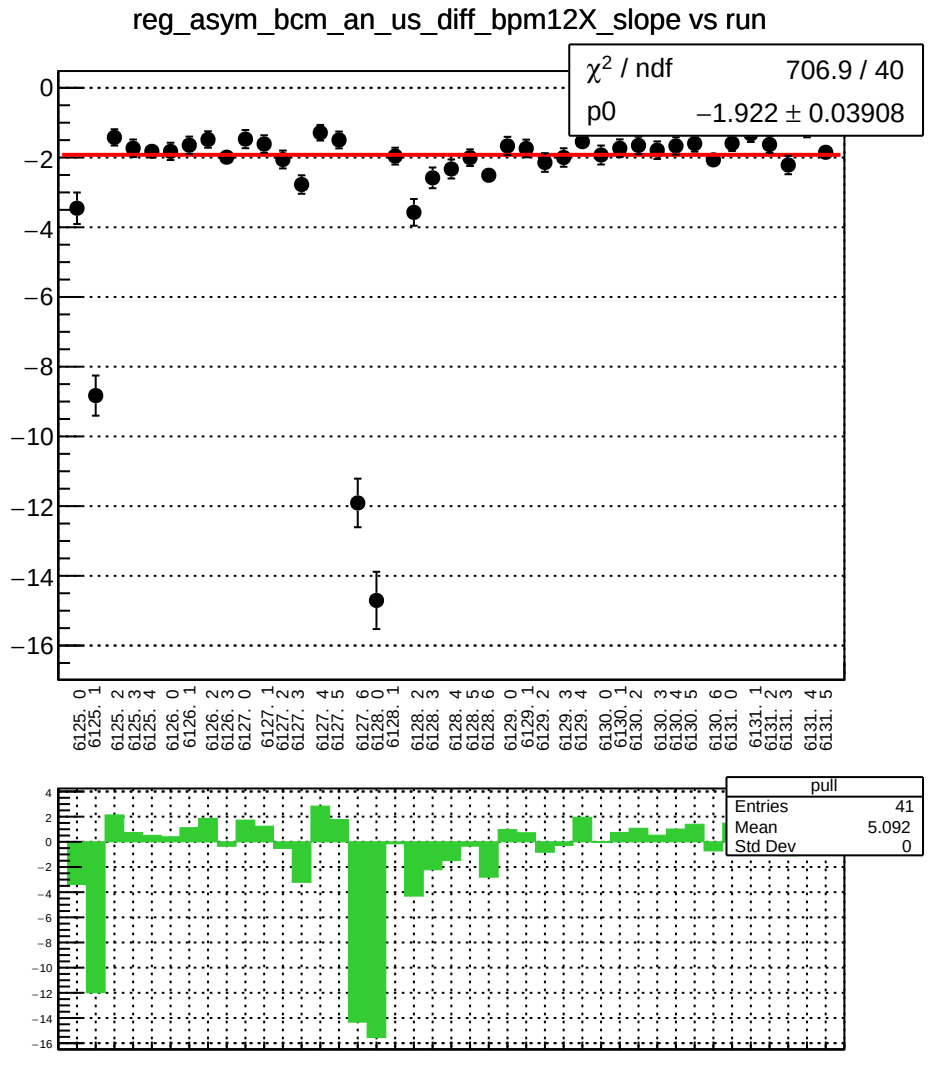

pull1D
Entries 41
Mean 0.2329
Std Dev 1.53

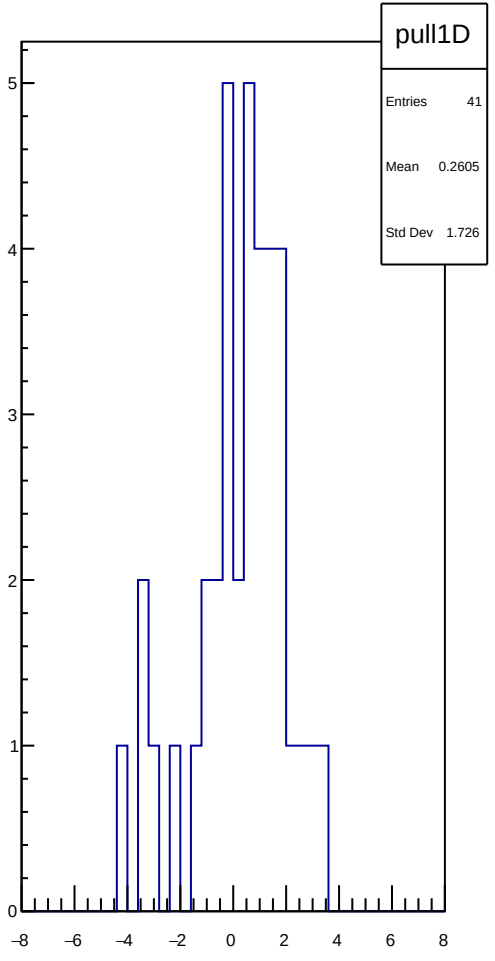

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 2383 / 40
p0 36.59 ± 0.4997
pull
Entries 41
Mean 5.162
Std Dev 0

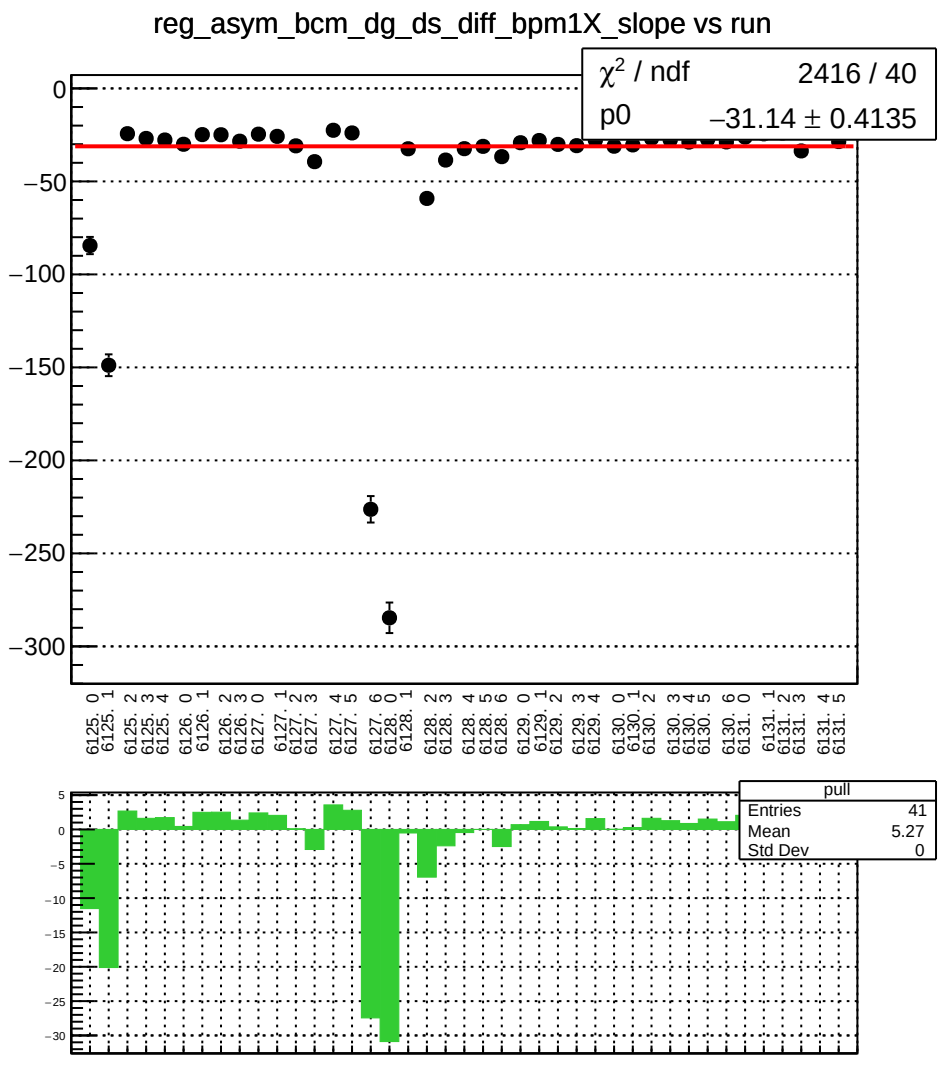

pull1D
Entries 41
Mean −0.8082
Std Dev 1.95

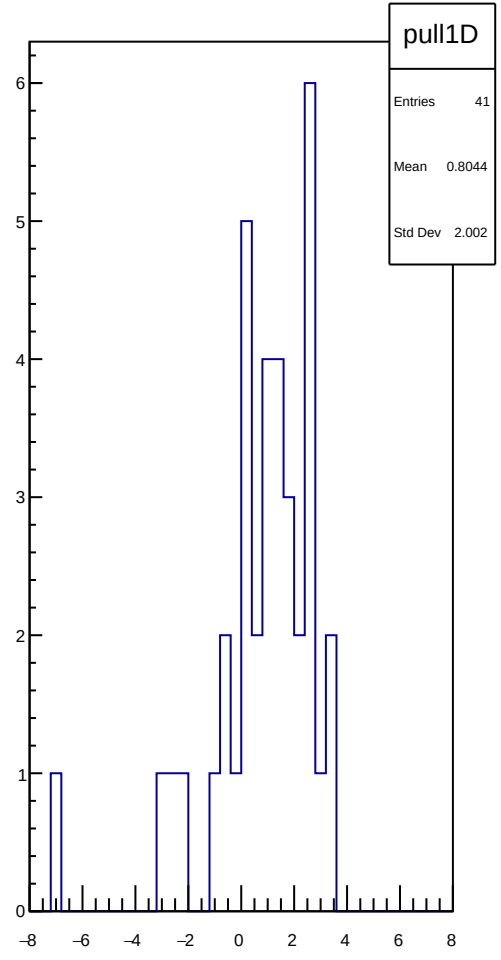

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 157.3 / 40
p0 −8.729 ± 0.4682
pull
Entries 41
Mean 11.46
Std Dev 0

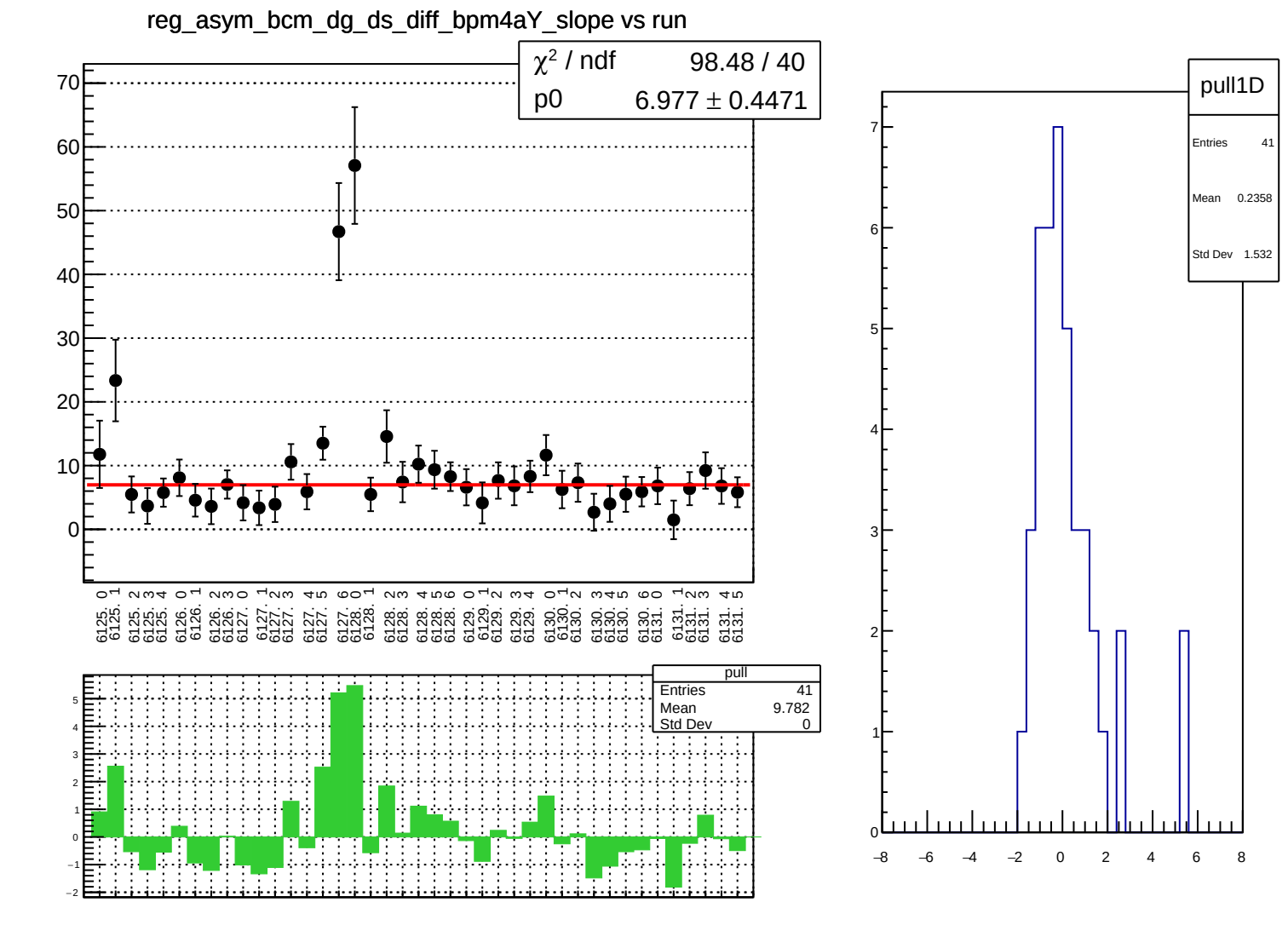

pull1D
Entries 41
Mean −0.3252
Std Dev 1.932

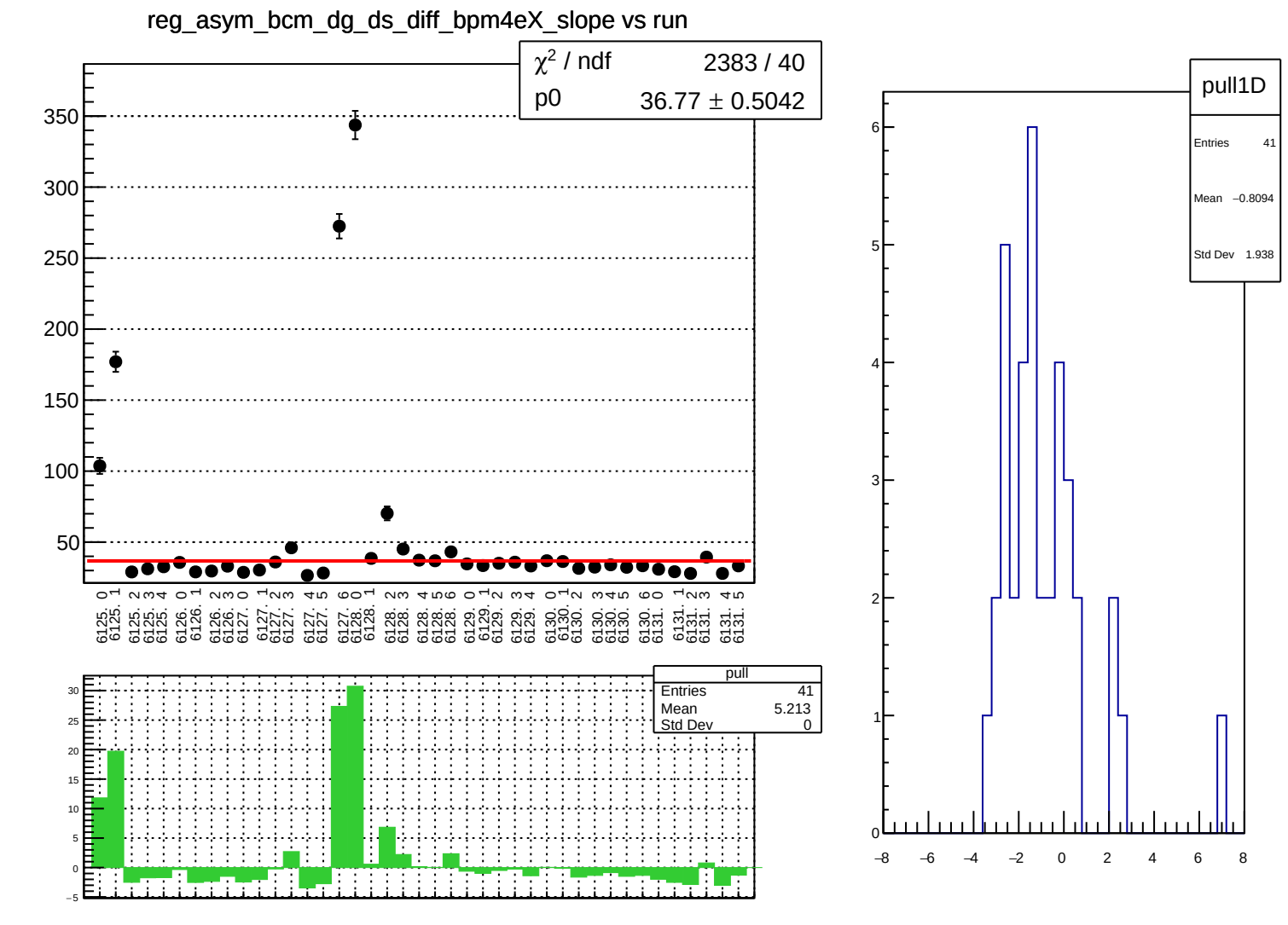

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 706.9 / 40
p0 −1.922 ± 0.03908
pull
Entries 41
Mean 5.092
Std Dev 0

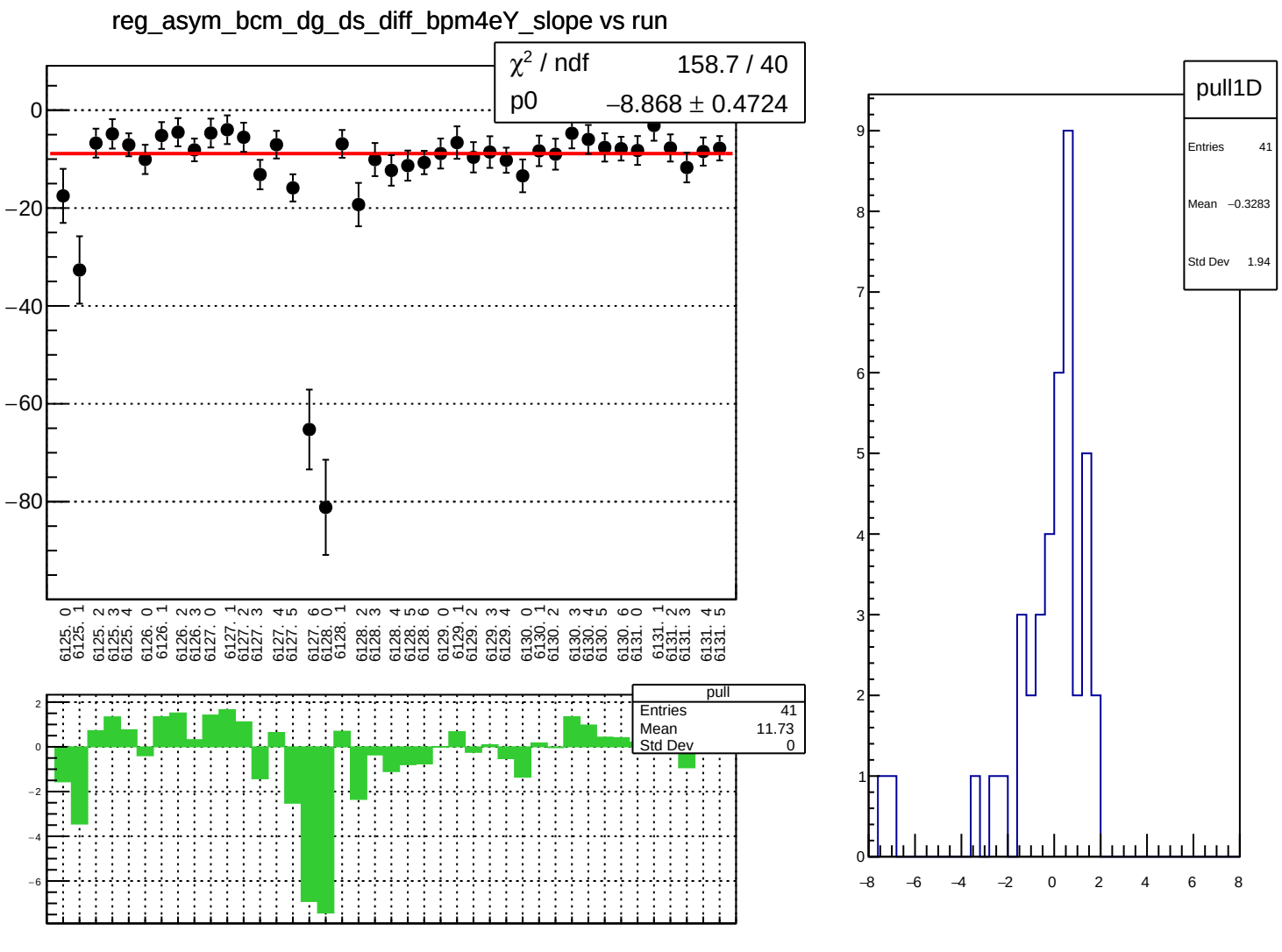

pull1D
Entries 41
Mean 0.2605
Std Dev 1.726

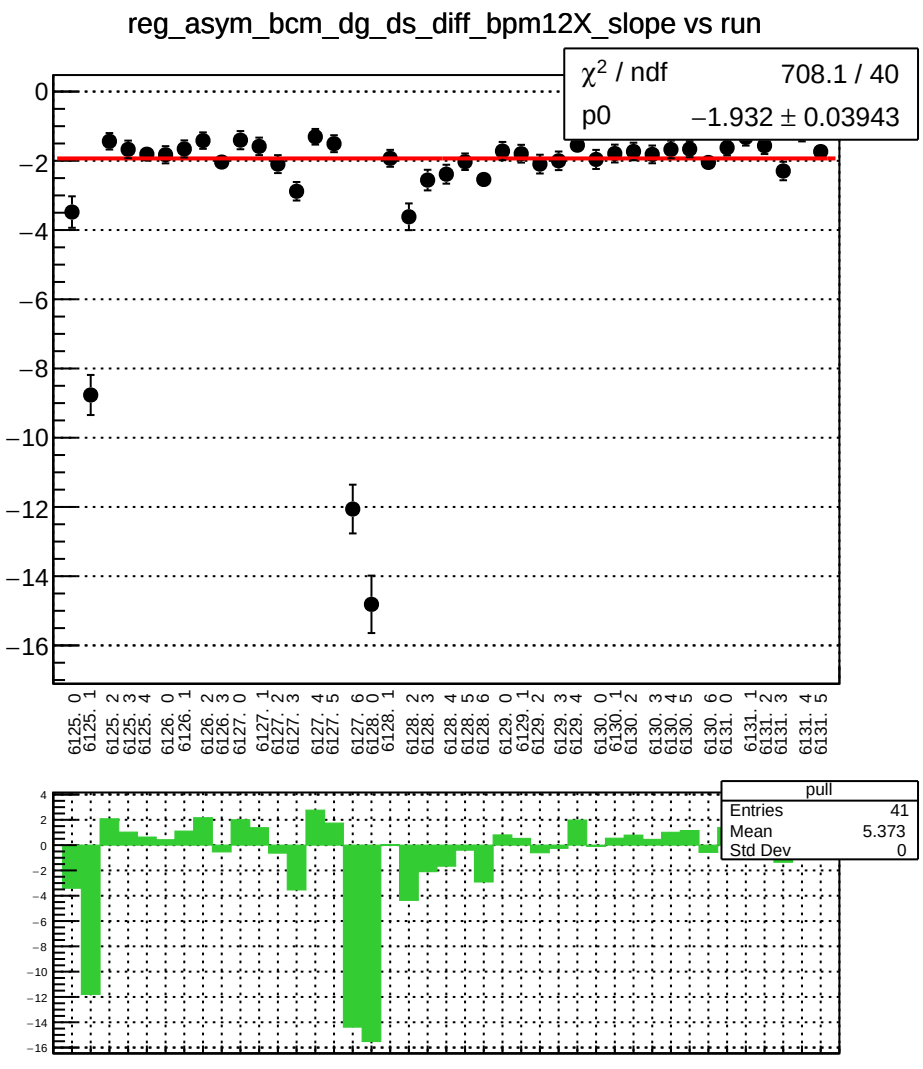

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 2416 / 40
p0 −31.14 ± 0.4135
pull
Entries 41
Mean 5.27
Std Dev 0

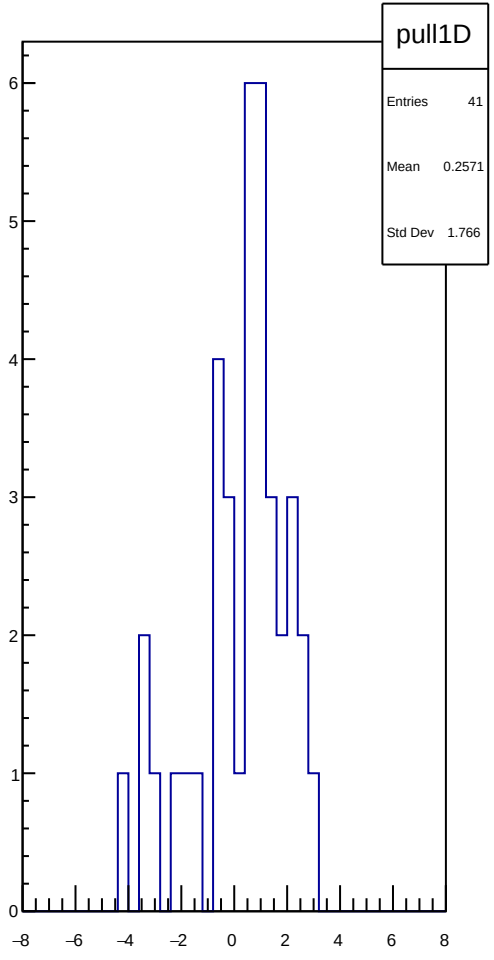

pull1D
Entries 41
Mean 0.8044
Std Dev 2.002

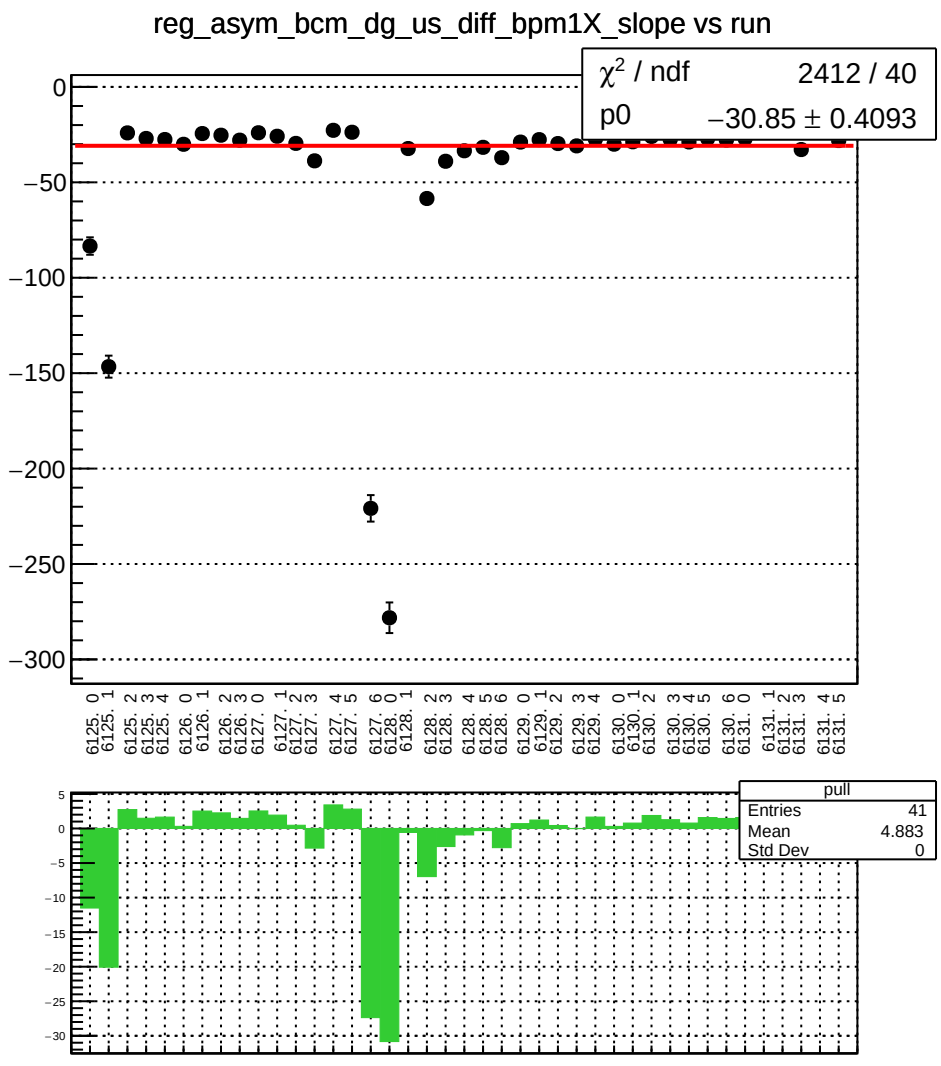

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 98.48 / 40
p0 6.977 ± 0.4471
pull
Entries 41
Mean 9.782
Std Dev 0
pull1D
Entries 41
Mean 0.2358
Std Dev 1.532

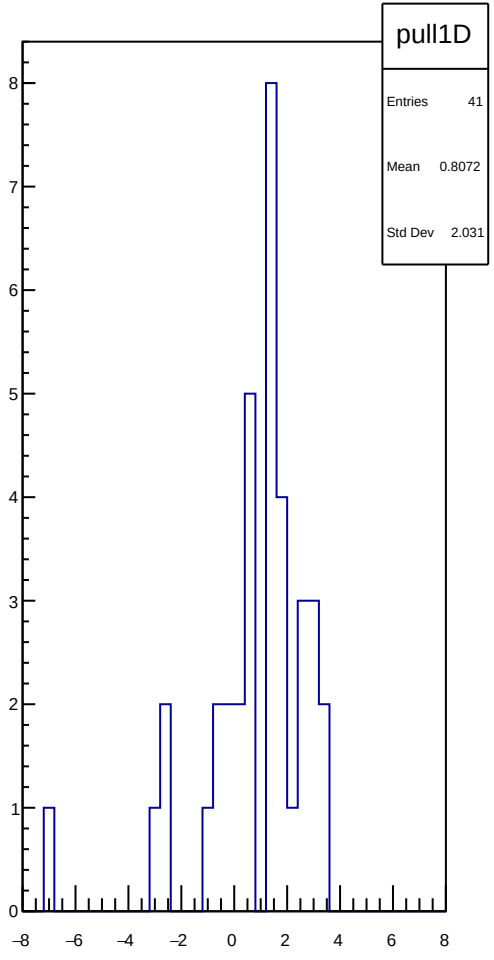

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 2383 / 40
p0 36.77 ± 0.5042
pull
Entries 41
Mean 5.213
Std Dev 0
pull1D
Entries 41
Mean −0.8094
Std Dev 1.938

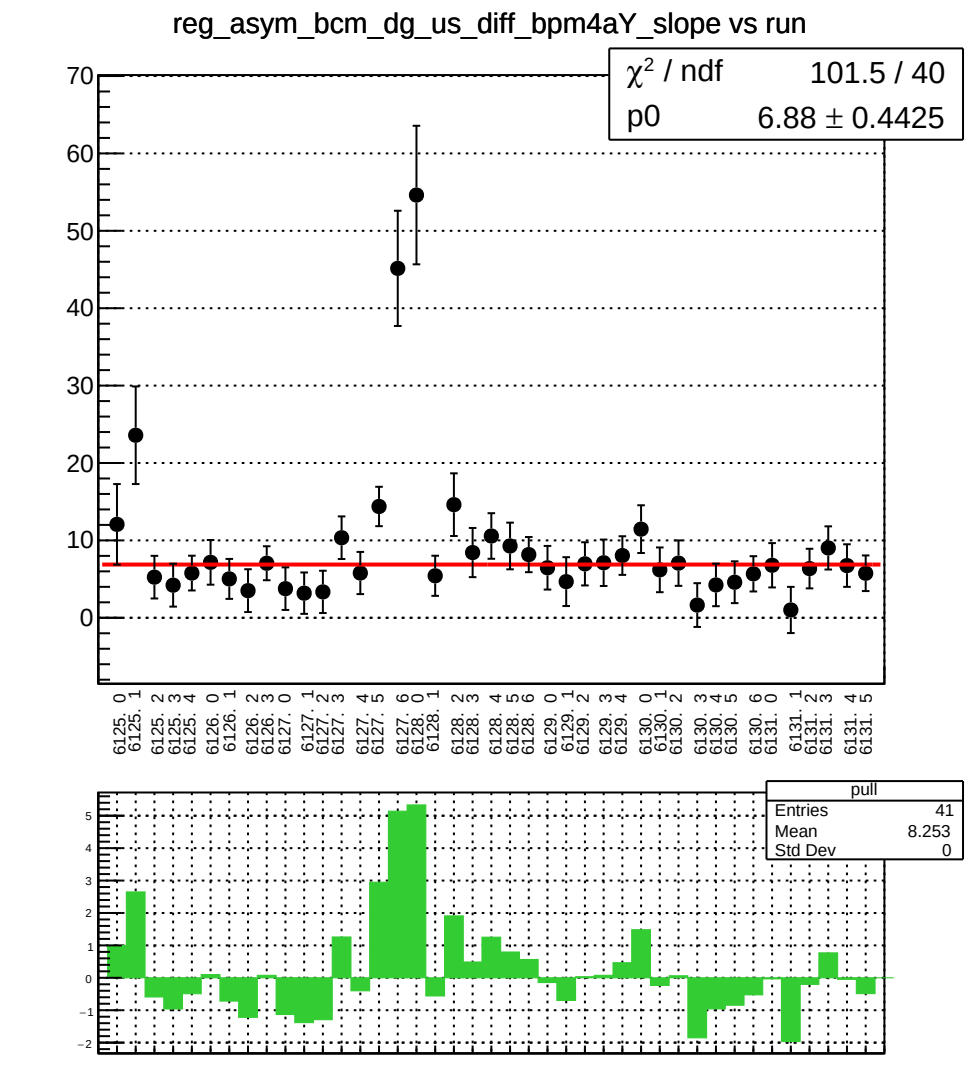

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 158.7 / 40
p0 −8.868 ± 0.4724
pull
Entries 41
Mean 11.73
Std Dev 0
pull1D
Entries 41
Mean −0.3283
Std Dev 1.94

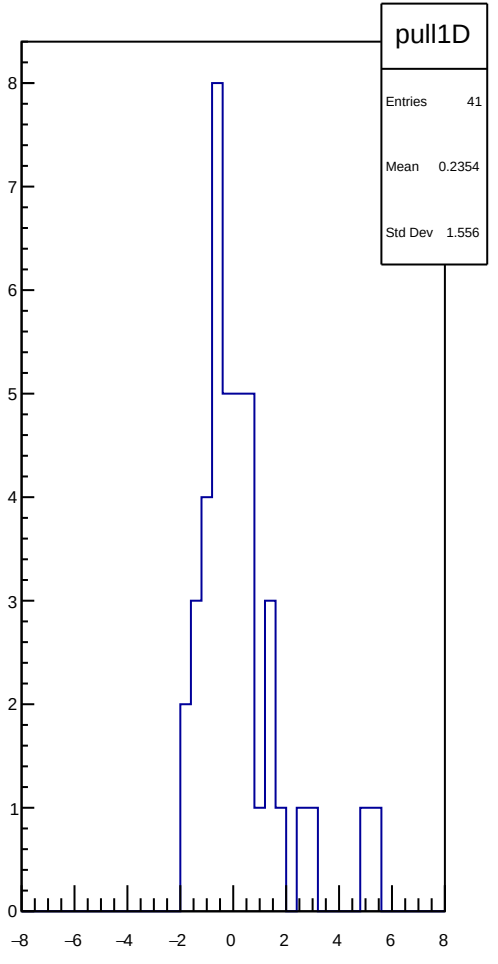

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 708.1 / 40
p0 −1.932 ± 0.03943
pull
Entries 41
Mean 5.373
Std Dev 0

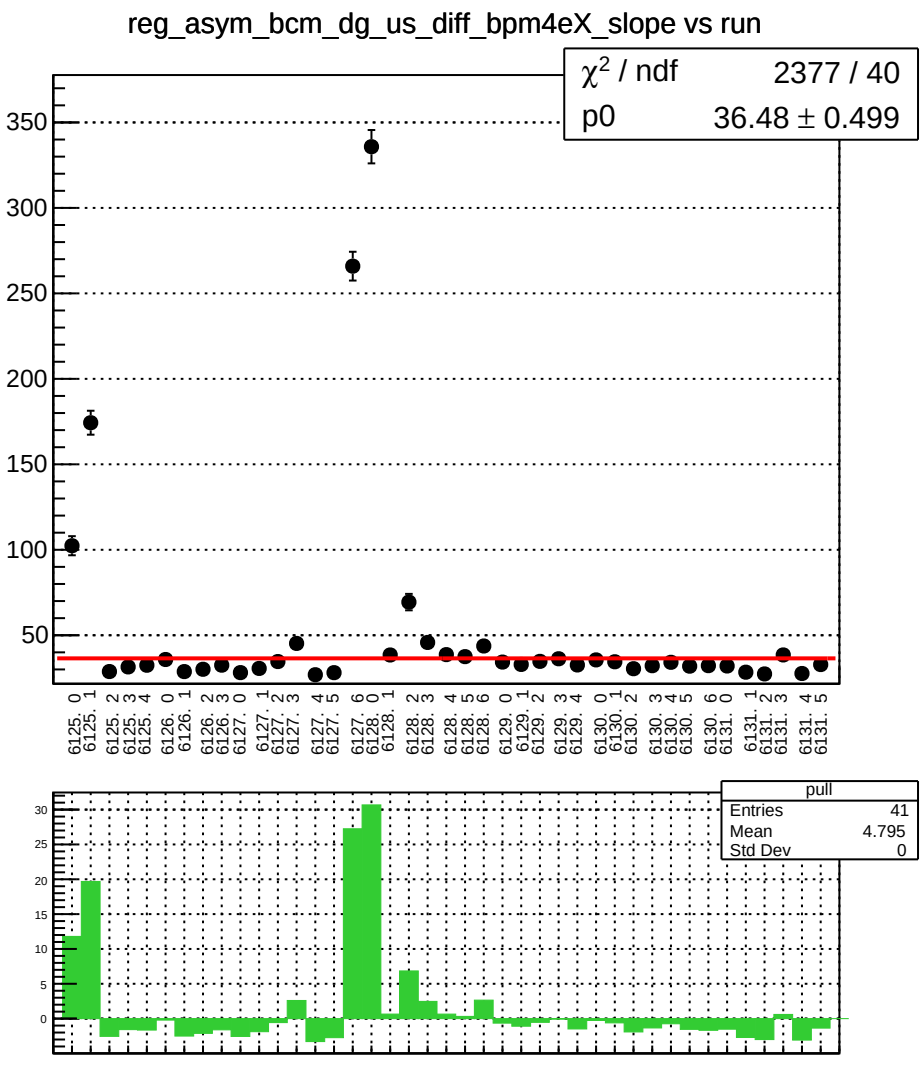

pull1D
Entries 41
Mean 0.2571
Std Dev 1.766

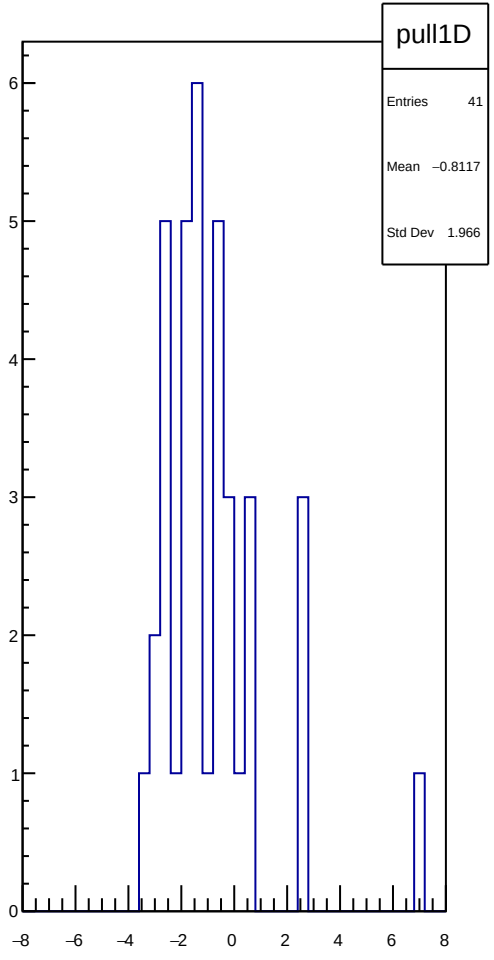

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 2412 / 40
p0 −30.85 ± 0.4093
pull
Entries 41
Mean 4.883
Std Dev 0

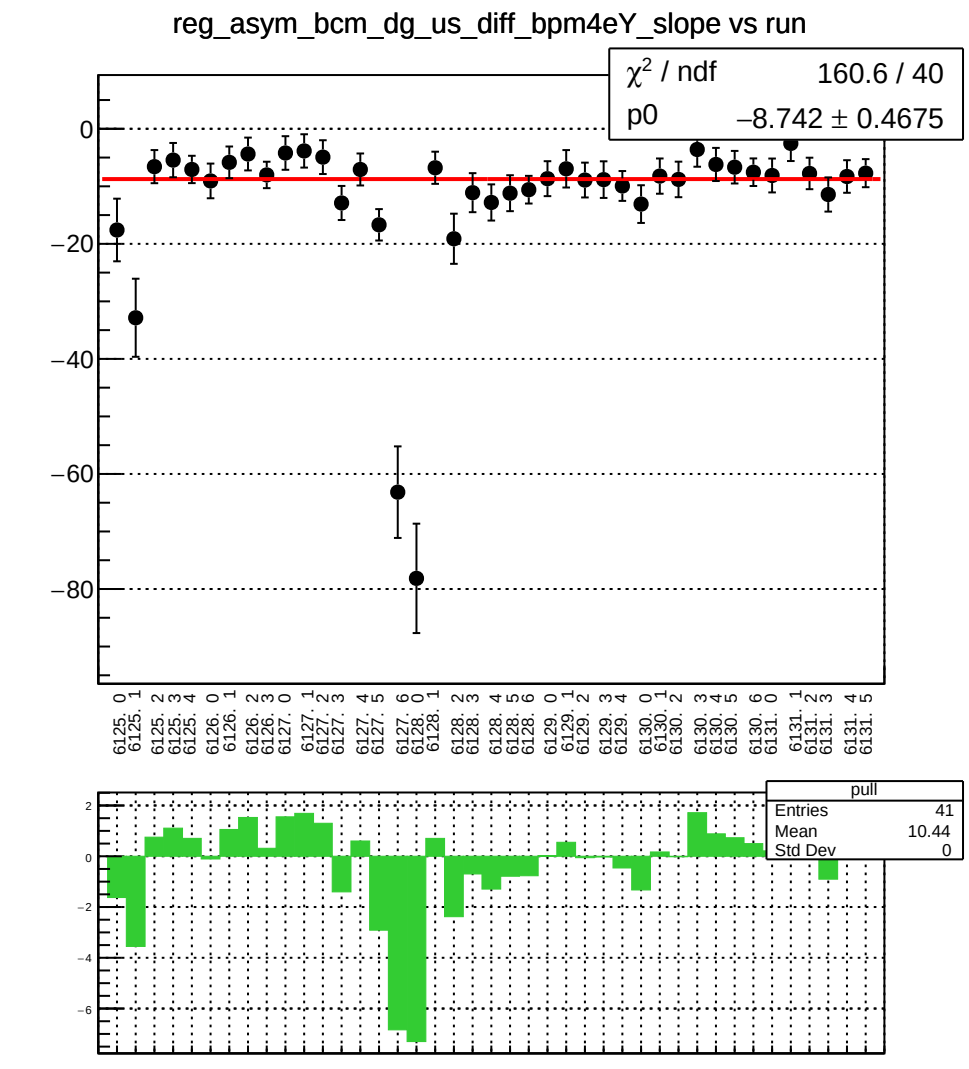

pull1D
Entries 41
Mean 0.8072
Std Dev 2.031

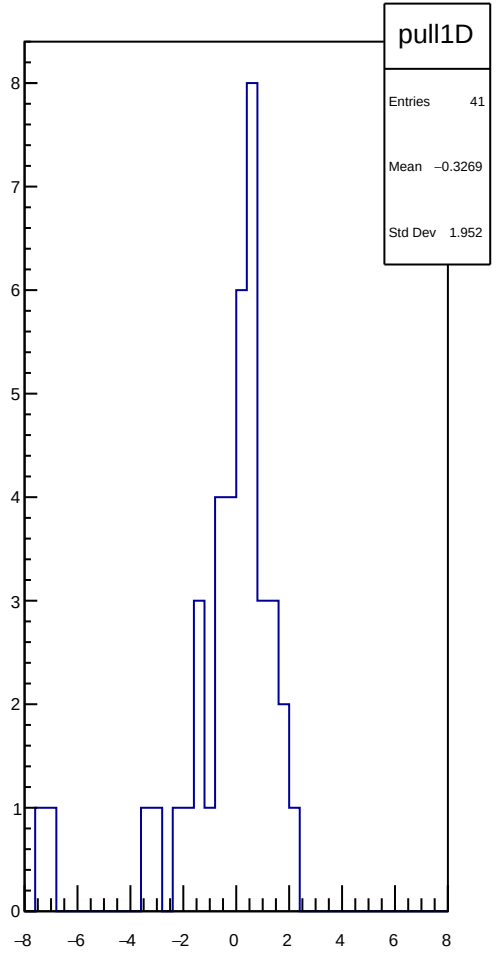

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 101.5 / 40
p0 6.88 ± 0.4425
pull
Entries 41
Mean 8.253
Std Dev 0

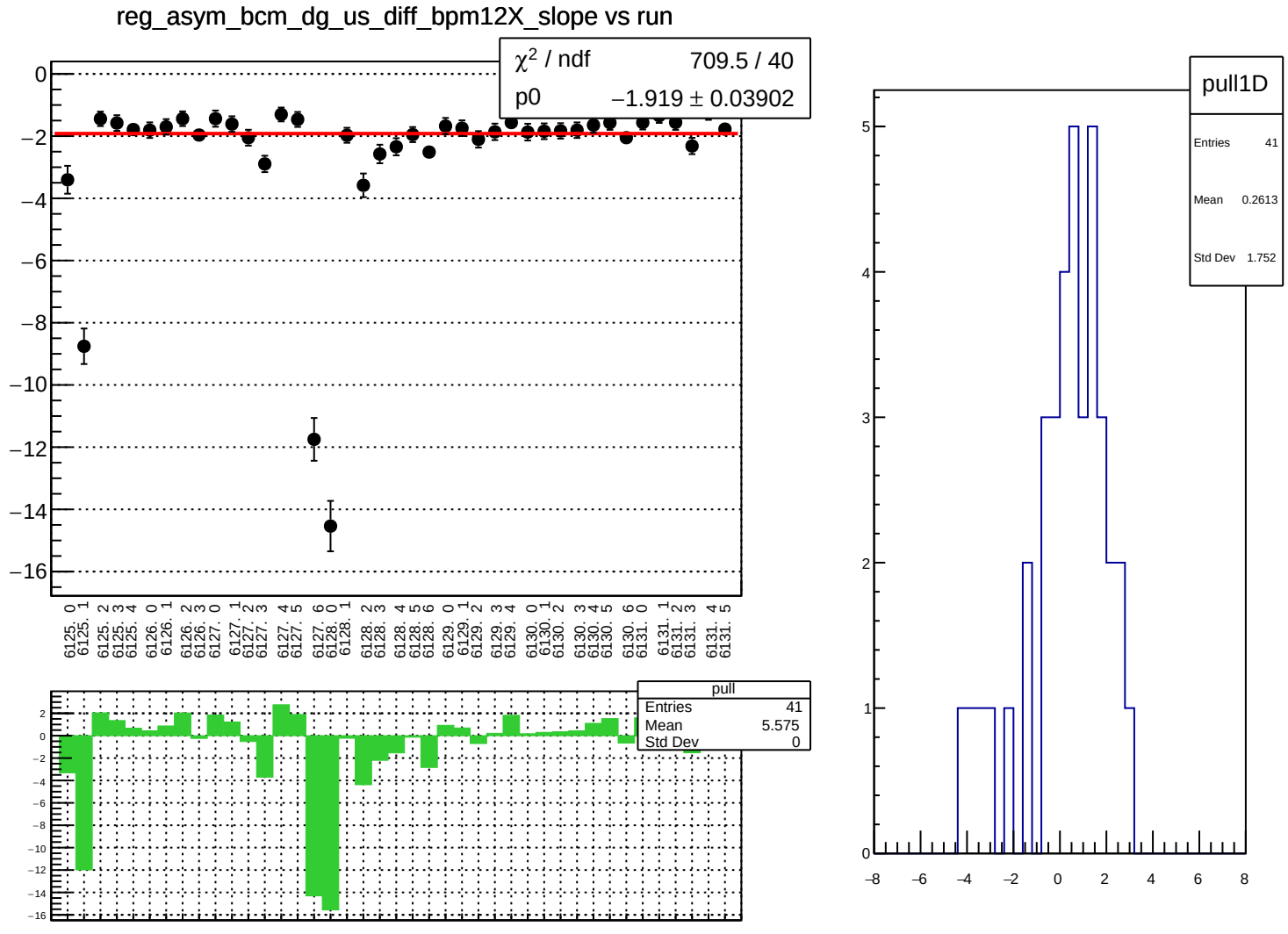

pull1D
Entries 41
Mean 0.2354
Std Dev 1.556

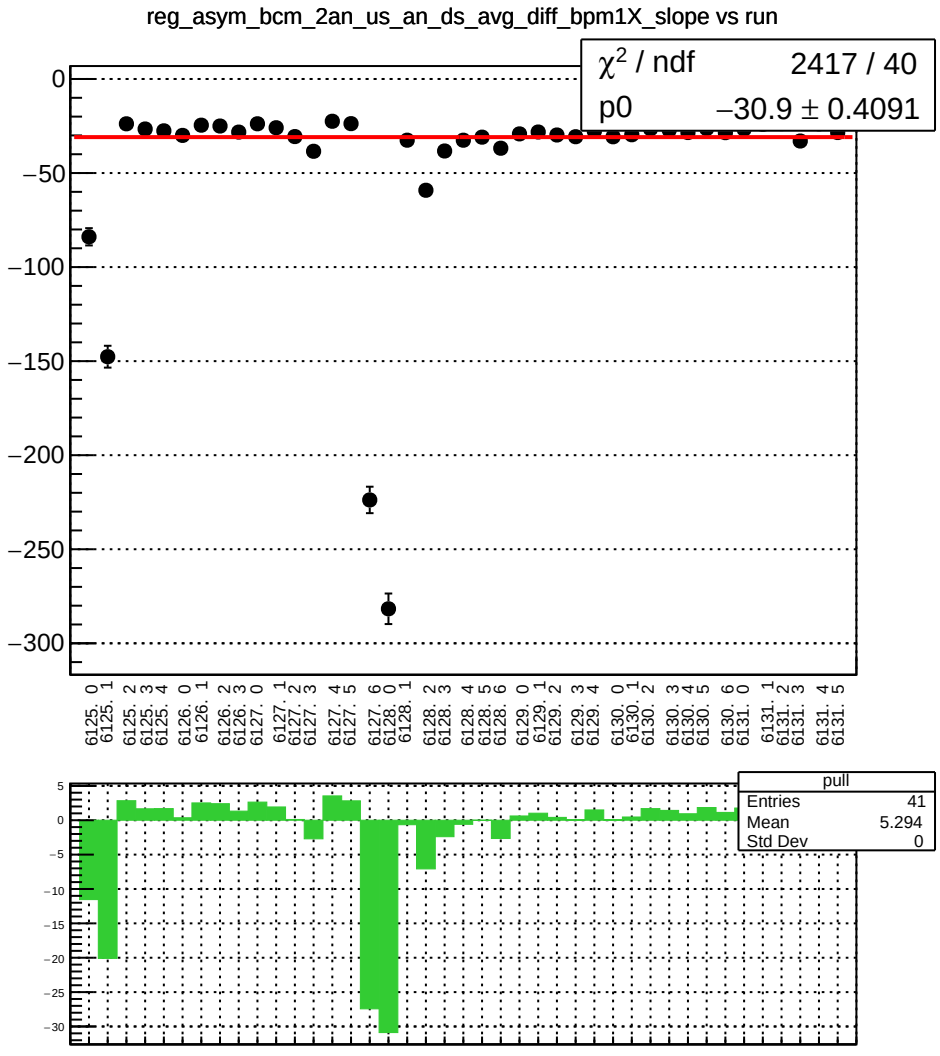

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 2377 / 40
p0 36.48 ± 0.499
pull
Entries 41
Mean 4.795
Std Dev 0

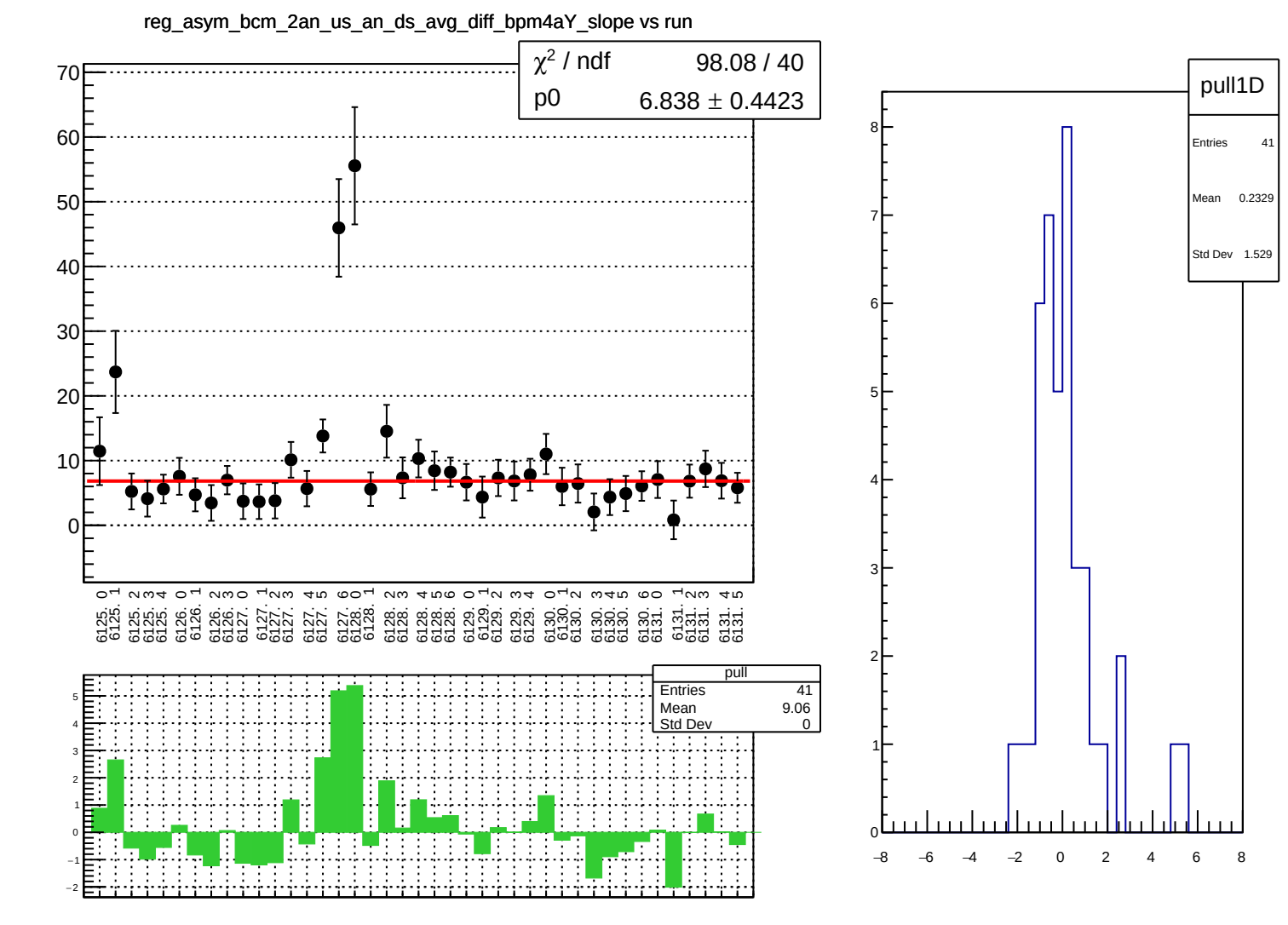

pull1D
Entries 41
Mean −0.8117
Std Dev 1.966

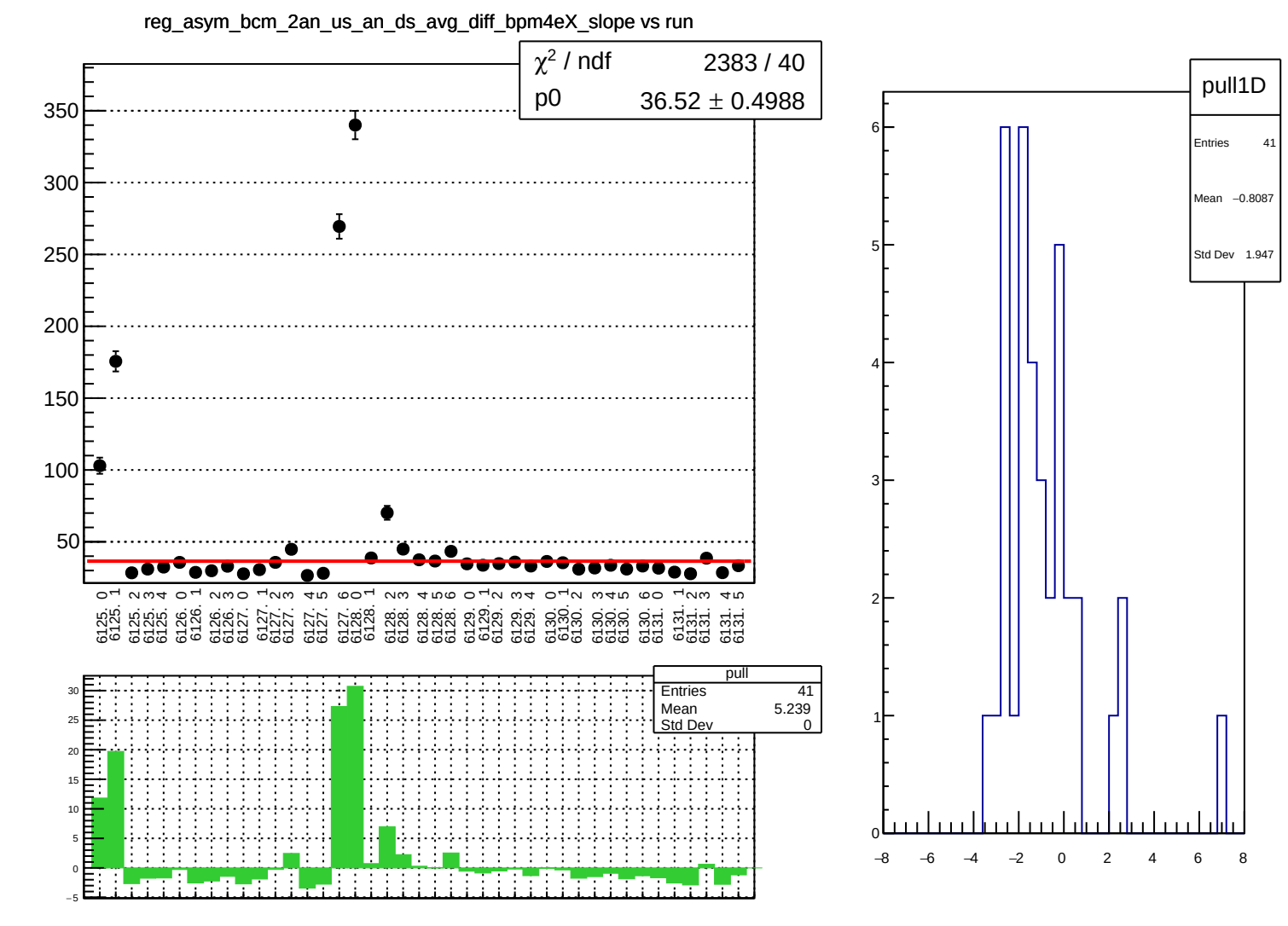

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 160.6 / 40
p0 −8.742 ± 0.4675
0
−20
−40
−60
−80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 10.44
Std Dev 0
2
0
−2
−4
−6

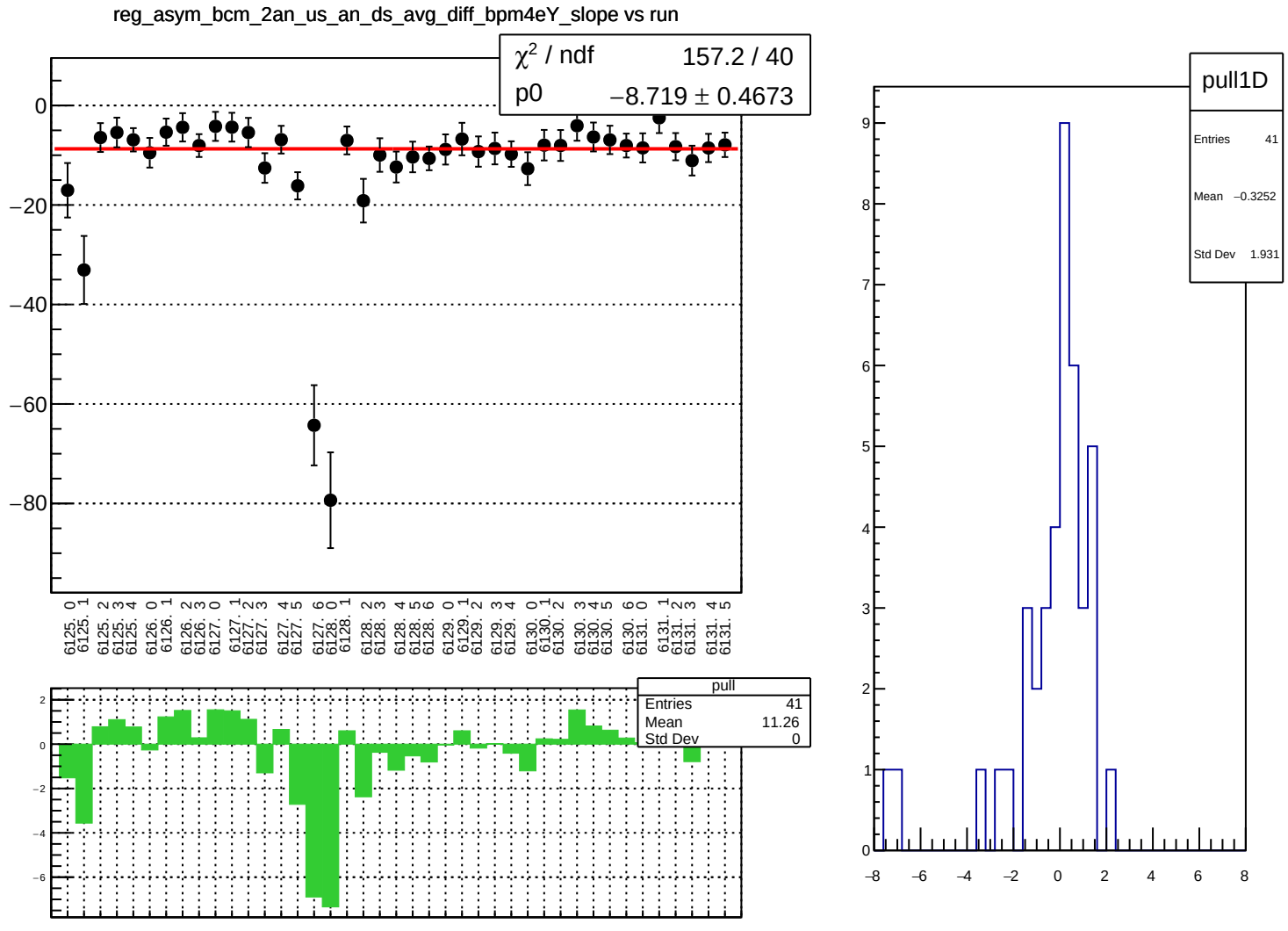

pull1D
Entries 41
Mean −0.3269
Std Dev 1.952
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

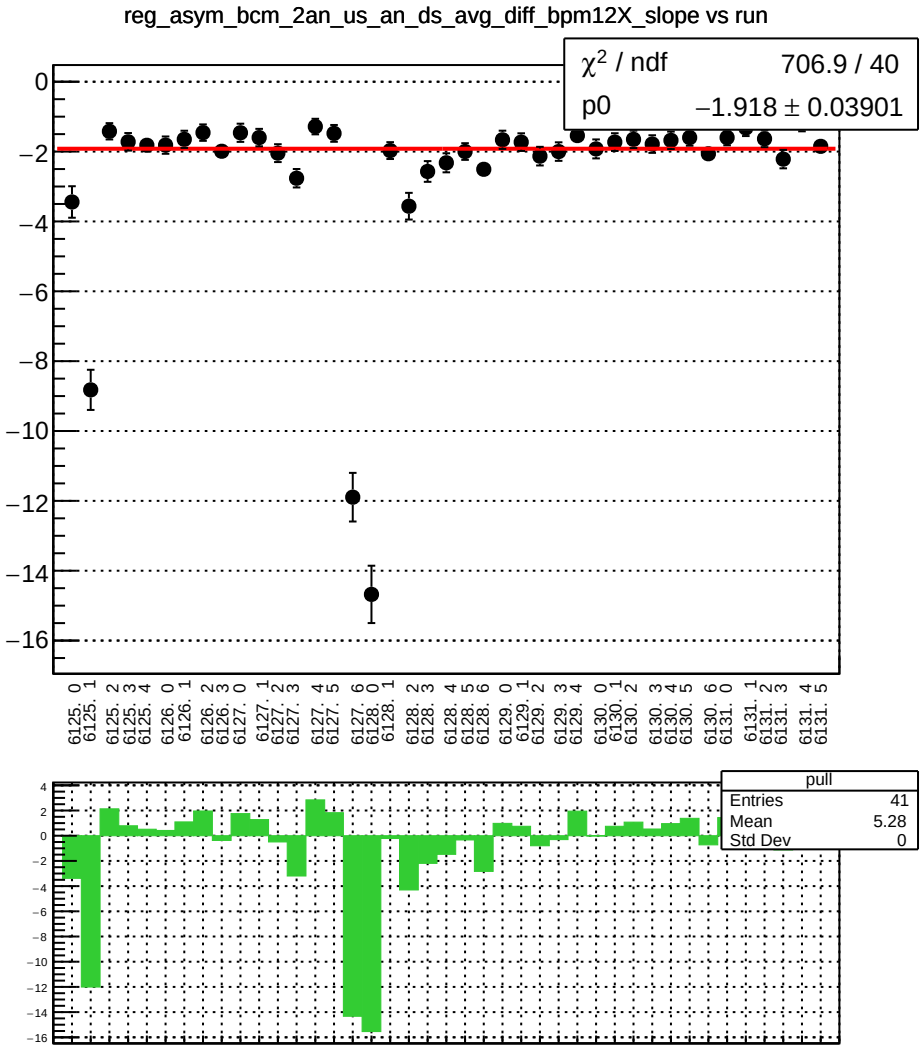

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 709.5 / 40
p0 −1.919 ± 0.03902
pull
Entries 41
Mean 5.575
Std Dev 0
pull1D
Entries 41
Mean 0.2613
Std Dev 1.752

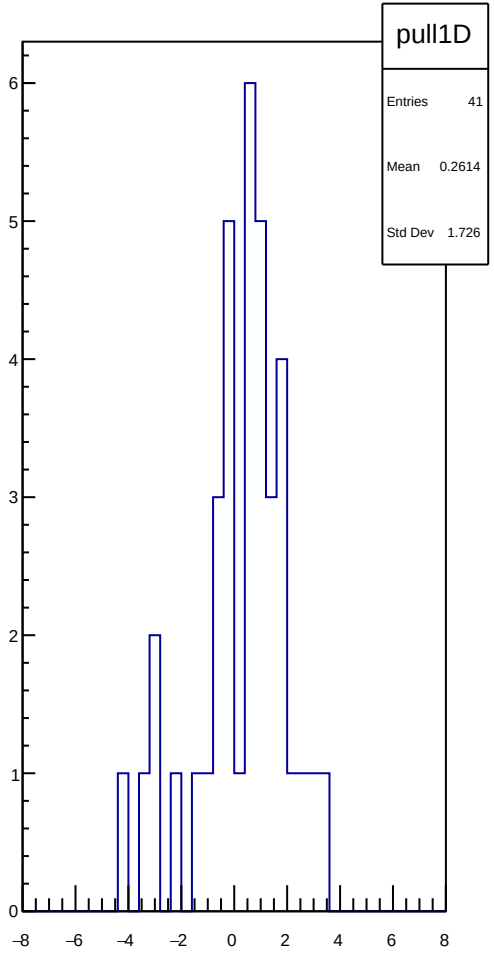

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 2417 / 40
p0 −30.9 ± 0.4091
pull
Entries 41
Mean 5.294
Std Dev 0
pull1D
Entries 41
Mean 0.8032
Std Dev 2.015

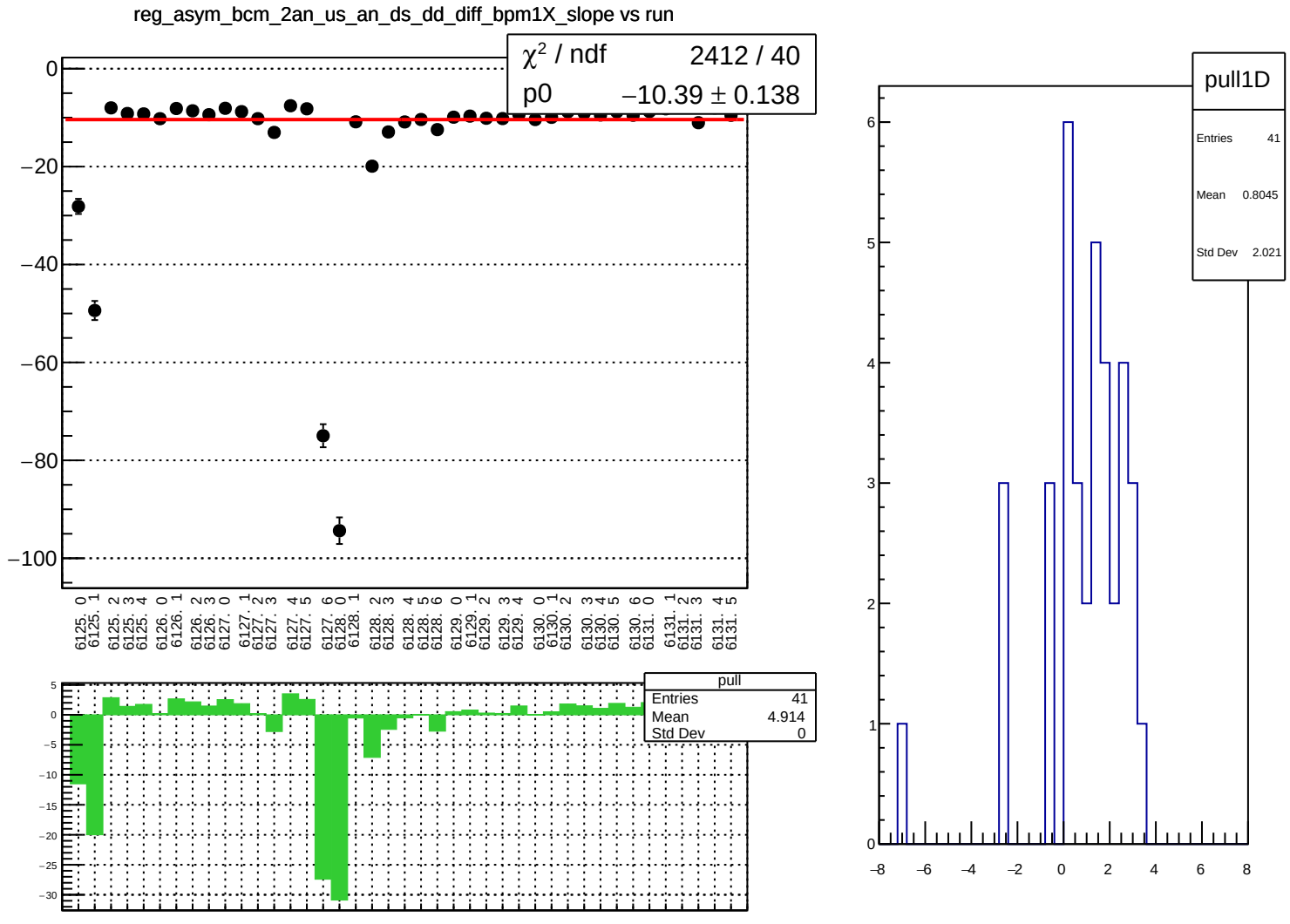

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 98.08 / 40
p0 6.838 ± 0.4423
pull
Entries 41
Mean 9.06
Std Dev 0
pull1D
Entries 41
Mean 0.2329
Std Dev 1.529

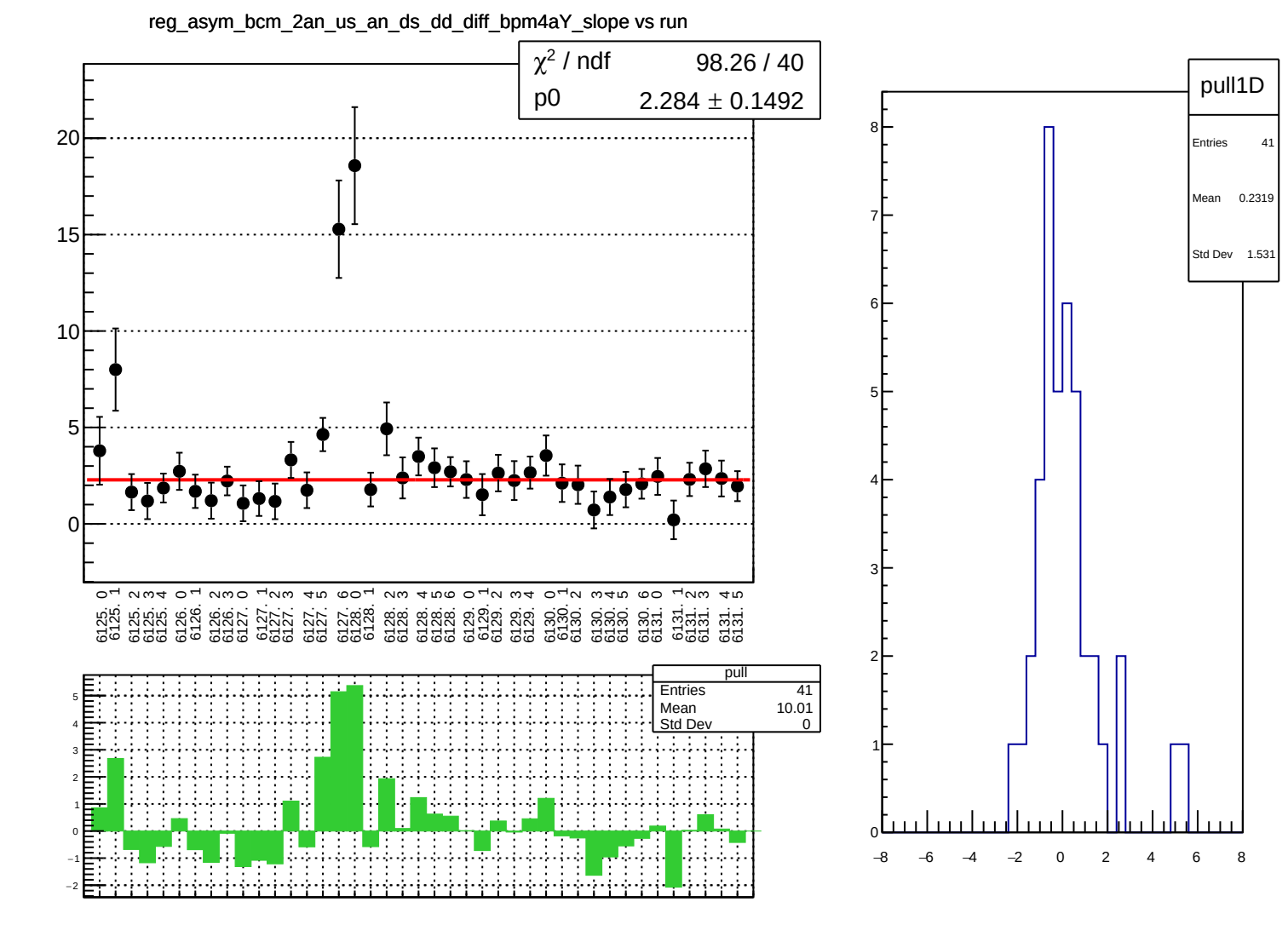

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 2383 / 40
p0 36.52 ± 0.4988
pull
Entries 41
Mean 5.239
Std Dev 0
pull1D
Entries 41
Mean −0.8087
Std Dev 1.947

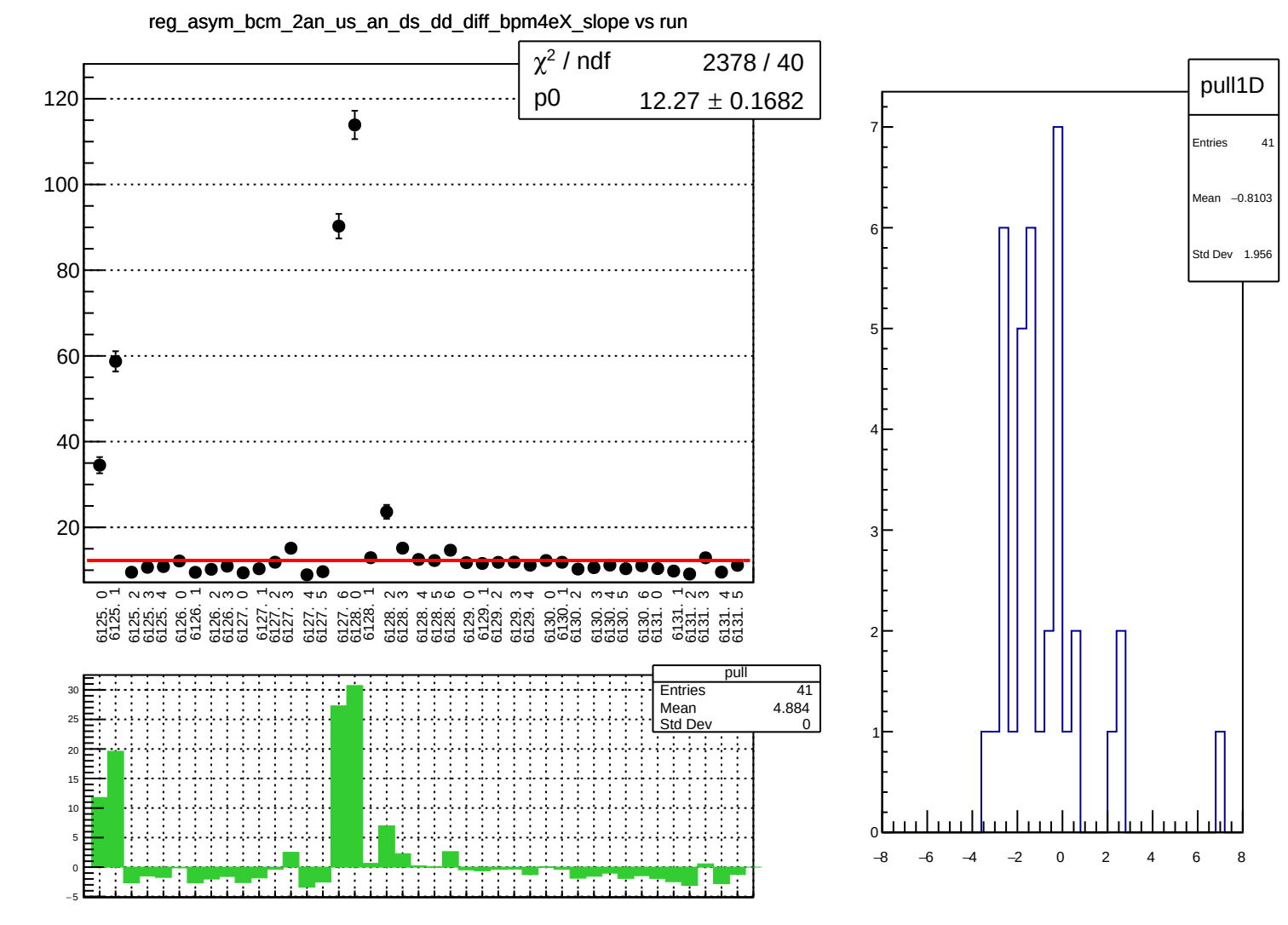

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 157.2 / 40
p0 −8.719 ± 0.4673
0
−20
−40
−60
−80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 11.26
Std Dev 0
2
0
−2
−4
−6
pull1D
Entries 41
Mean −0.3252
Std Dev 1.931
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

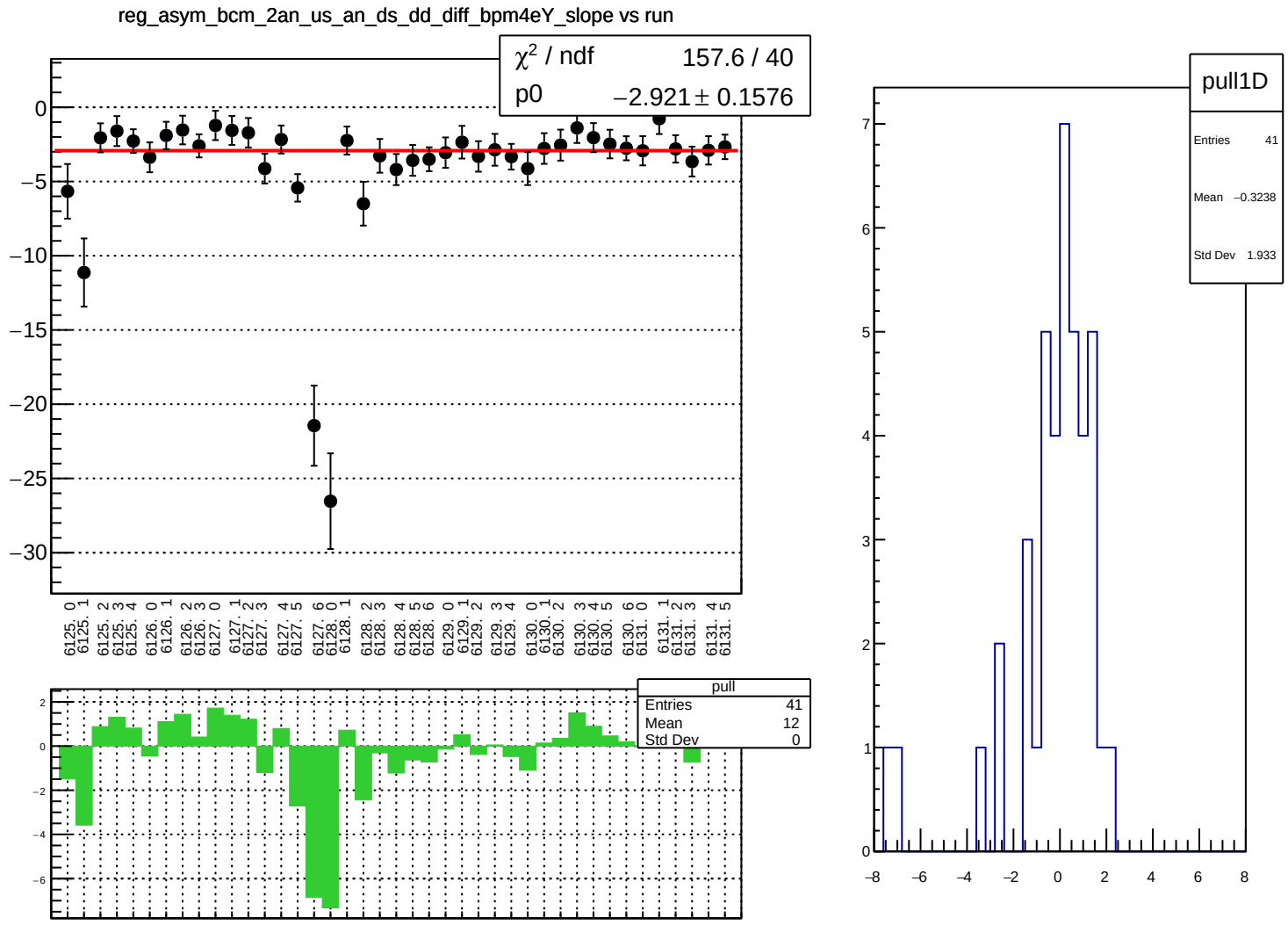

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 706.9 / 40
p0 −1.918 ± 0.03901
pull
Entries 41
Mean 5.28
Std Dev 0

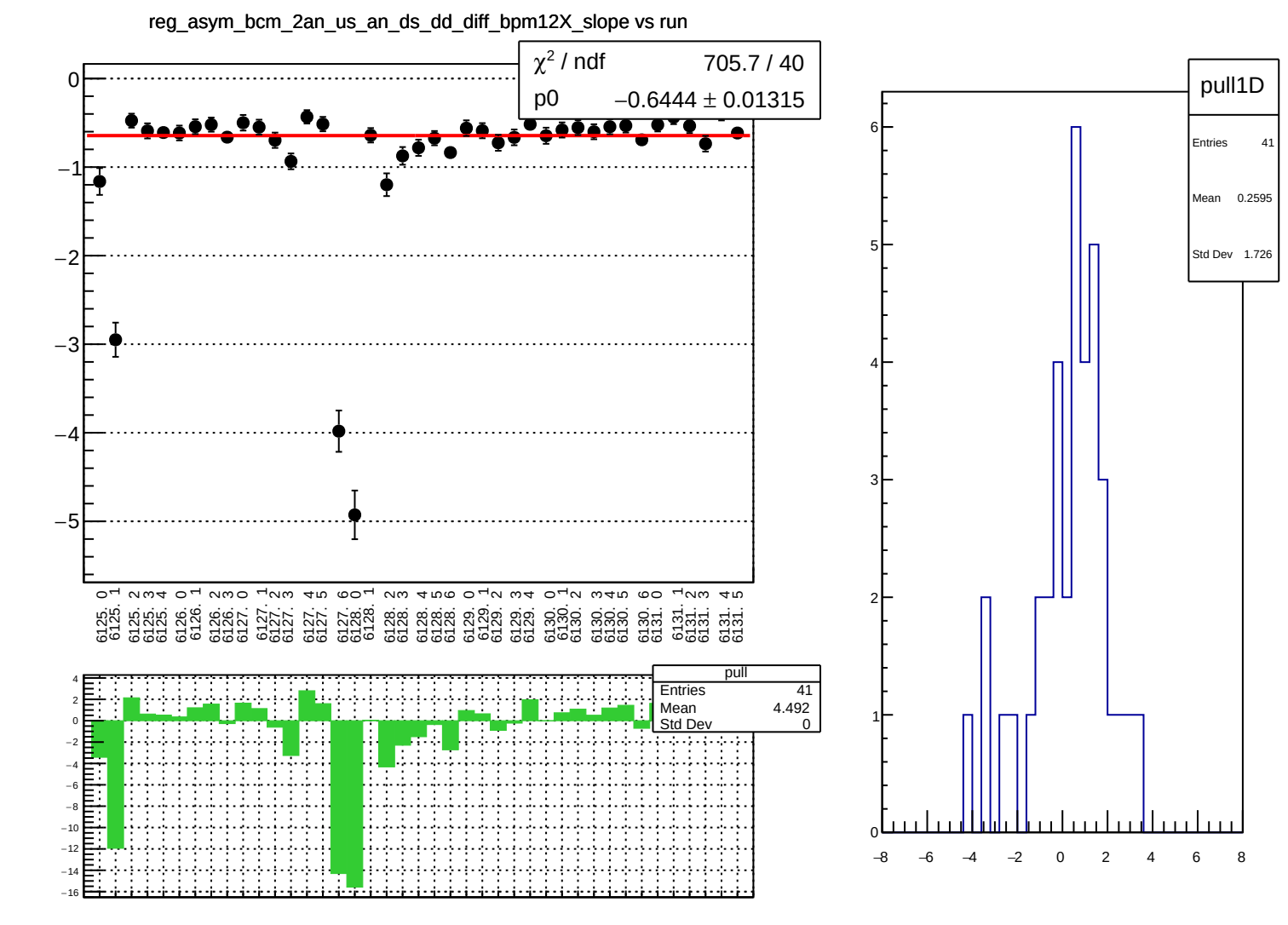

pull1D
Entries 41
Mean 0.2614
Std Dev 1.726

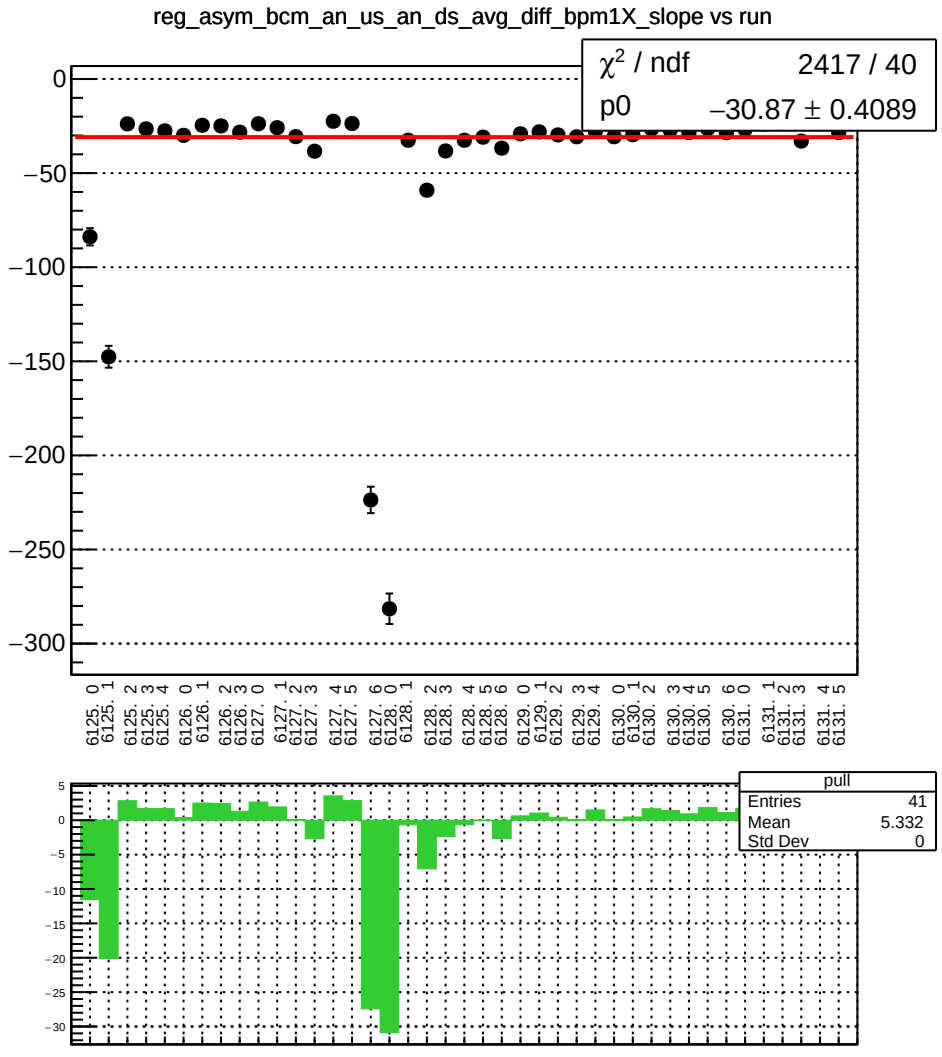

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 2412 / 40
p0 −10.39 ± 0.138
pull
Entries 41
Mean 4.914
Std Dev 0
pull1D
Entries 41
Mean 0.8045
Std Dev 2.021

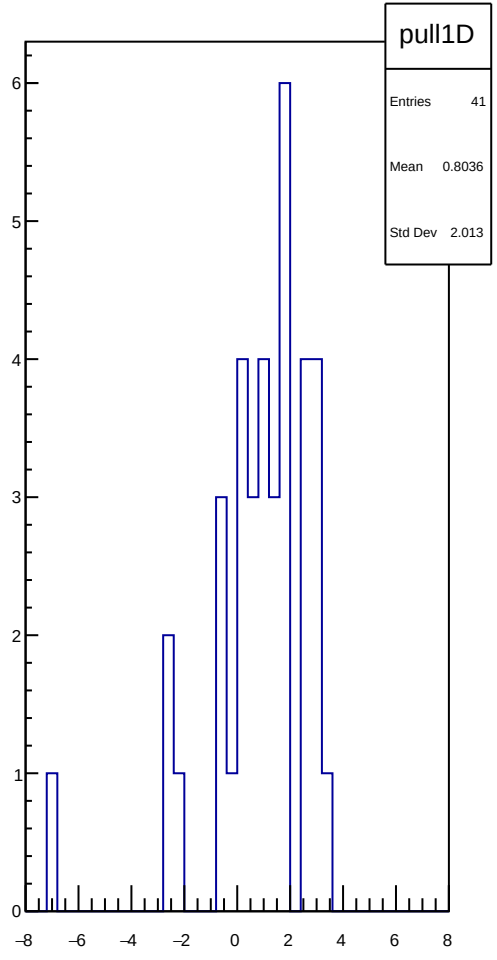

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 98.26 / 40
p0 2.284 ± 0.1492
pull
Entries 41
Mean 10.01
Std Dev 0
pull1D
Entries 41
Mean 0.2319
Std Dev 1.531

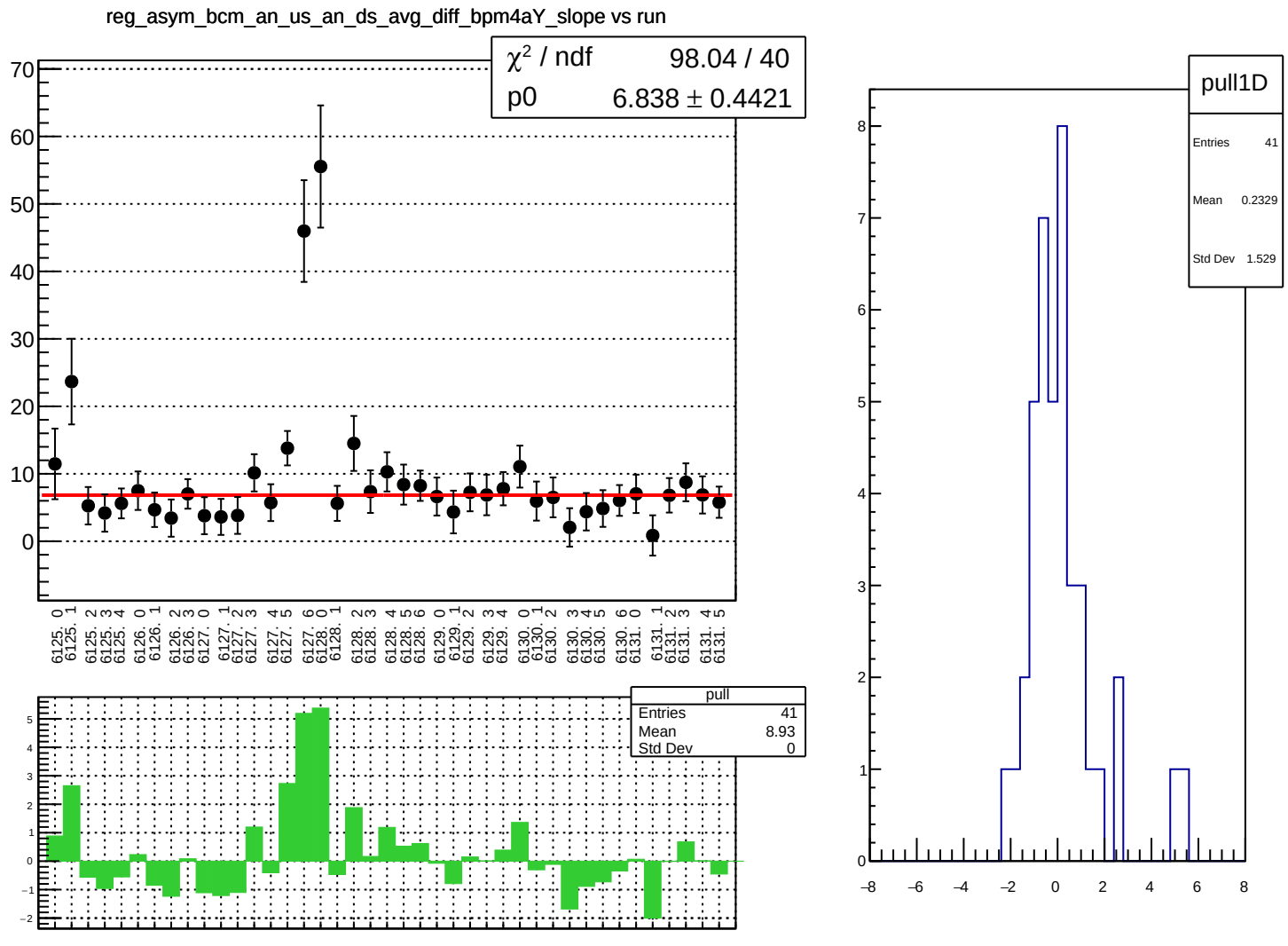

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 2378 / 40
p0 12.27 ± 0.1682
pull
Entries 41
Mean 4.884
Std Dev 0
pull1D
Entries 41
Mean −0.8103
Std Dev 1.956

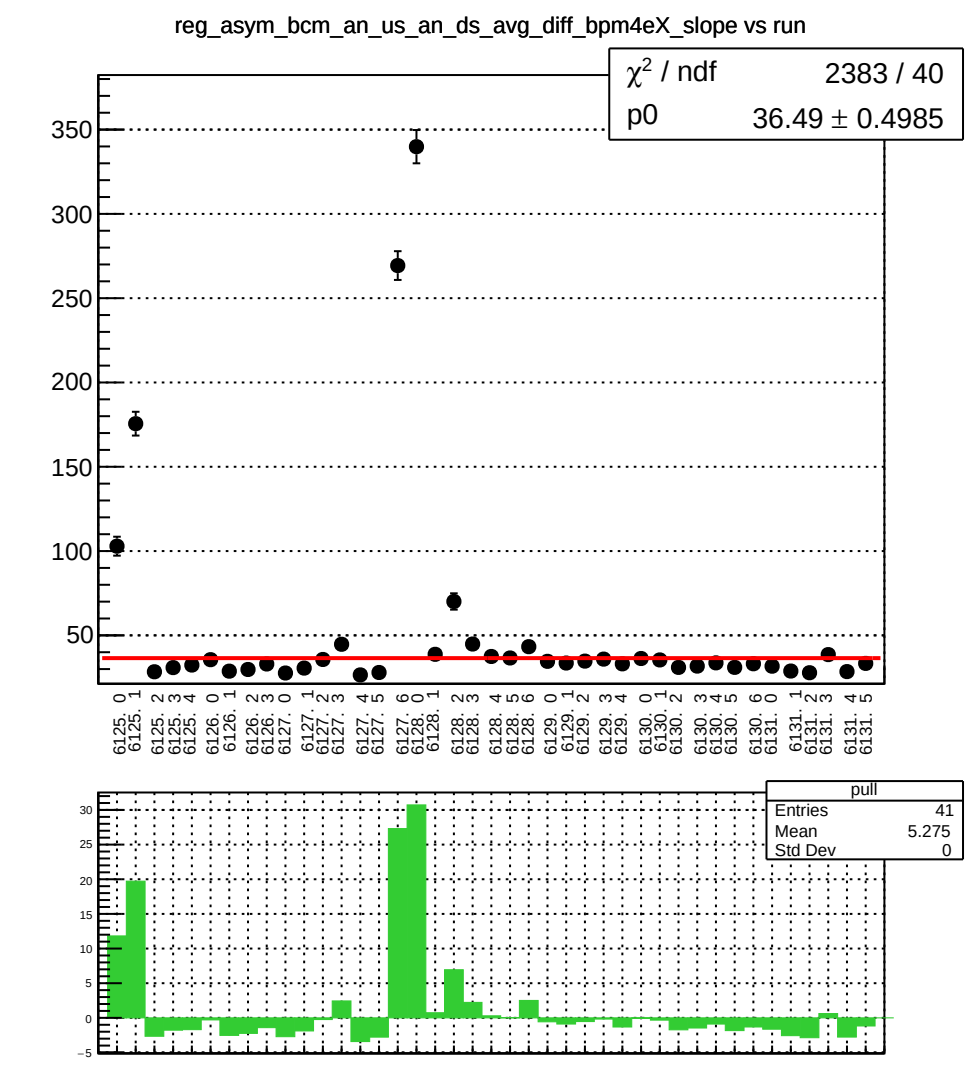

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 157.6 / 40
p0 −2.921 ± 0.1576
pull
Entries 41
Mean 12
Std Dev 0
pull1D
Entries 41
Mean −0.3238
Std Dev 1.933

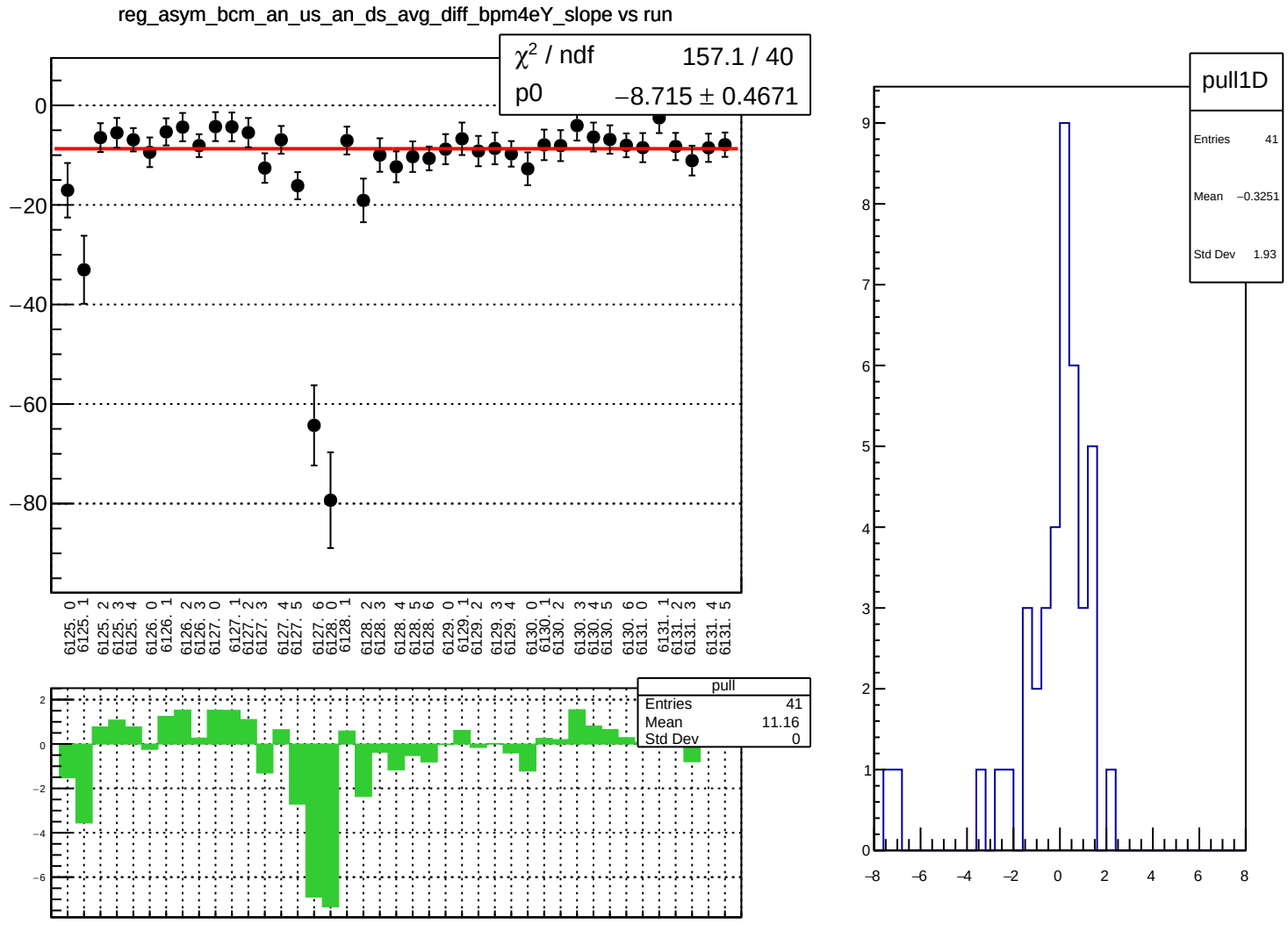

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 705.7 / 40
p0 −0.6444 ± 0.01315
pull
Entries 41
Mean 4.492
Std Dev 0
pull1D
Entries 41
Mean 0.2595
Std Dev 1.726

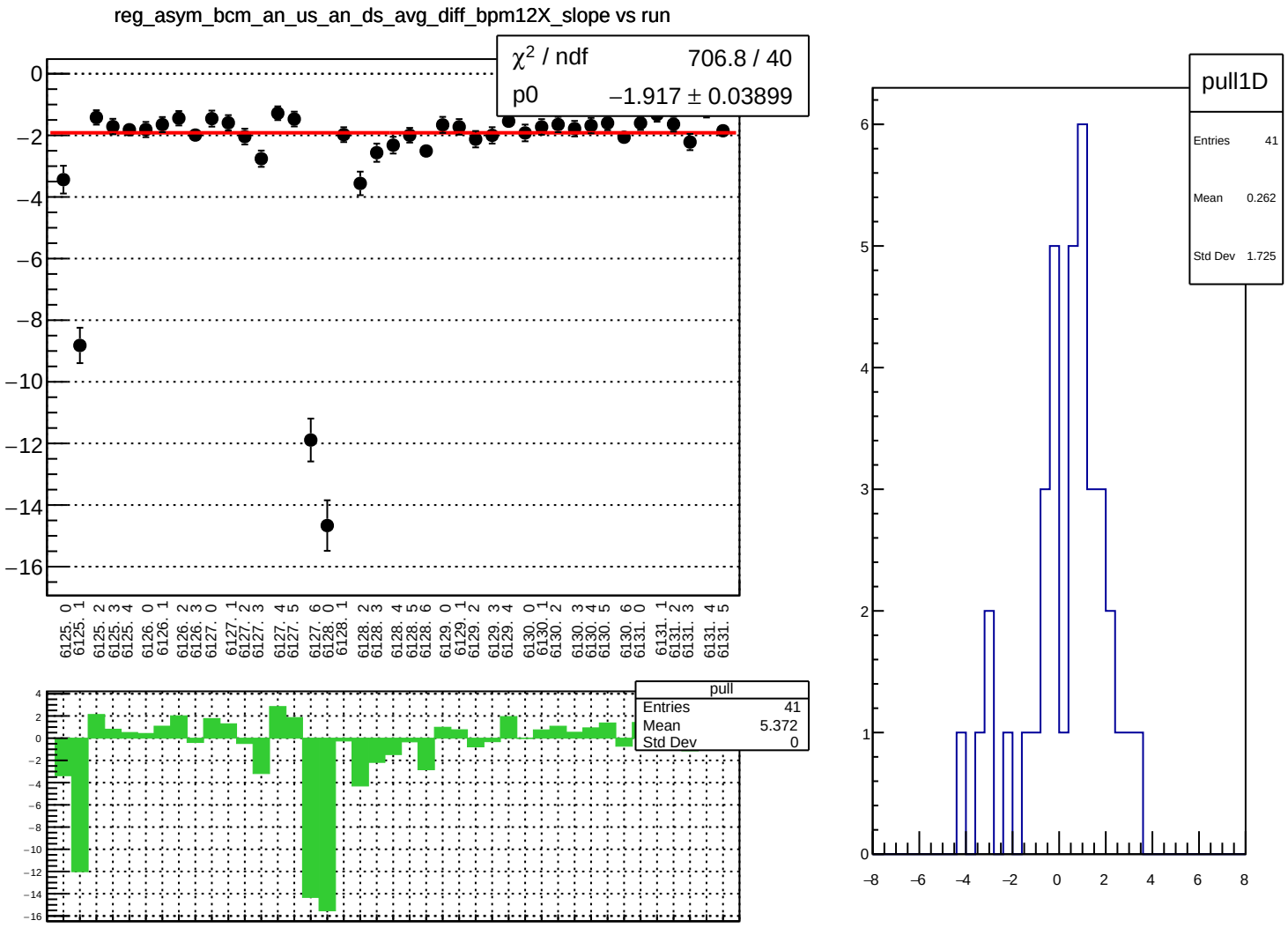

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 2417 / 40
p0 −30.87 ± 0.4089
pull
Entries 41
Mean 5.332
Std Dev 0

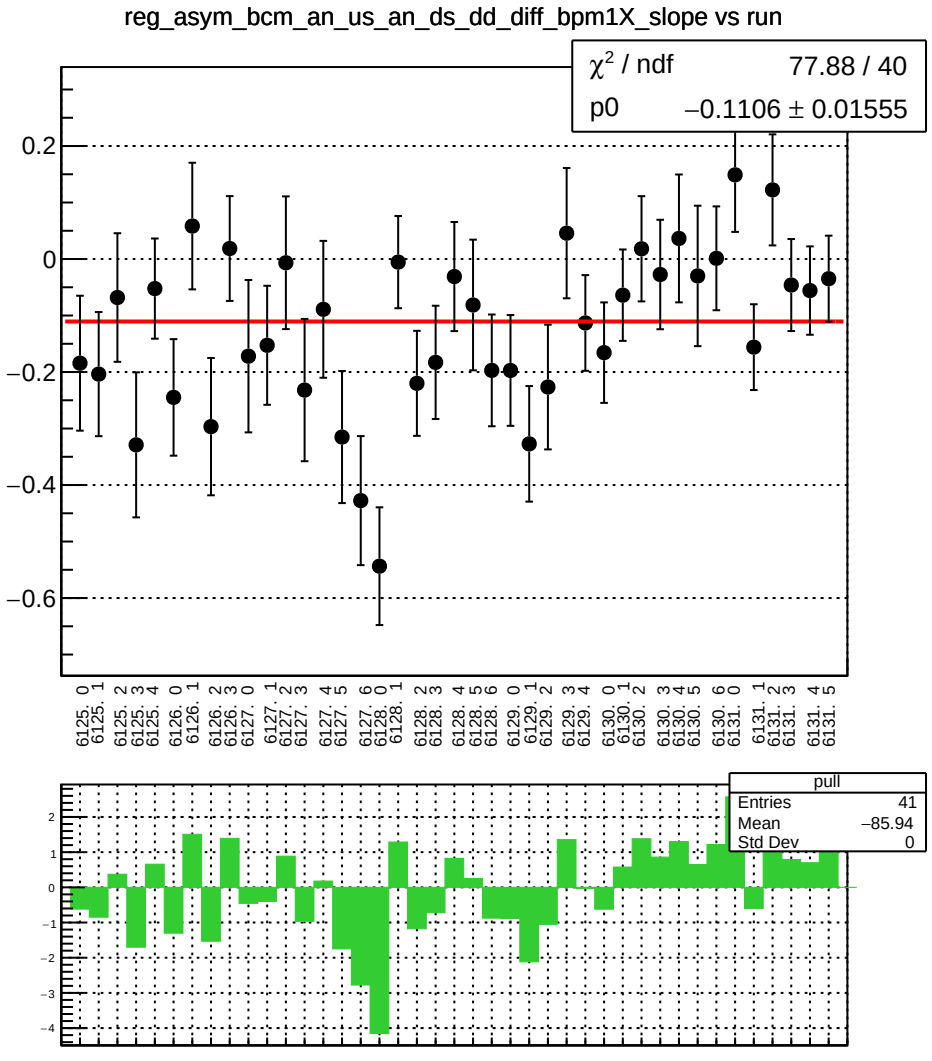

pull1D
Entries 41
Mean 0.8036
Std Dev 2.013

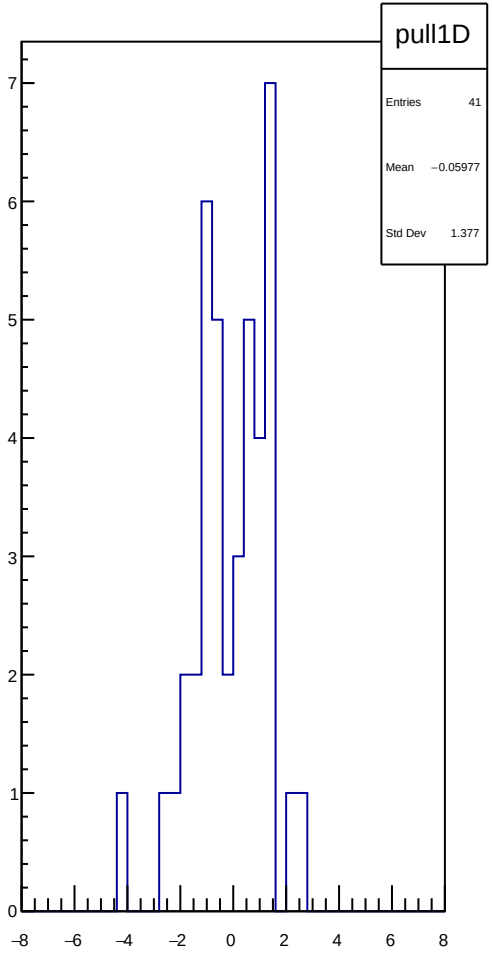

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 98.04 / 40
p0 6.838 ± 0.4421
pull
Entries 41
Mean 8.93
Std Dev 0
pull1D
Entries 41
Mean 0.2329
Std Dev 1.529

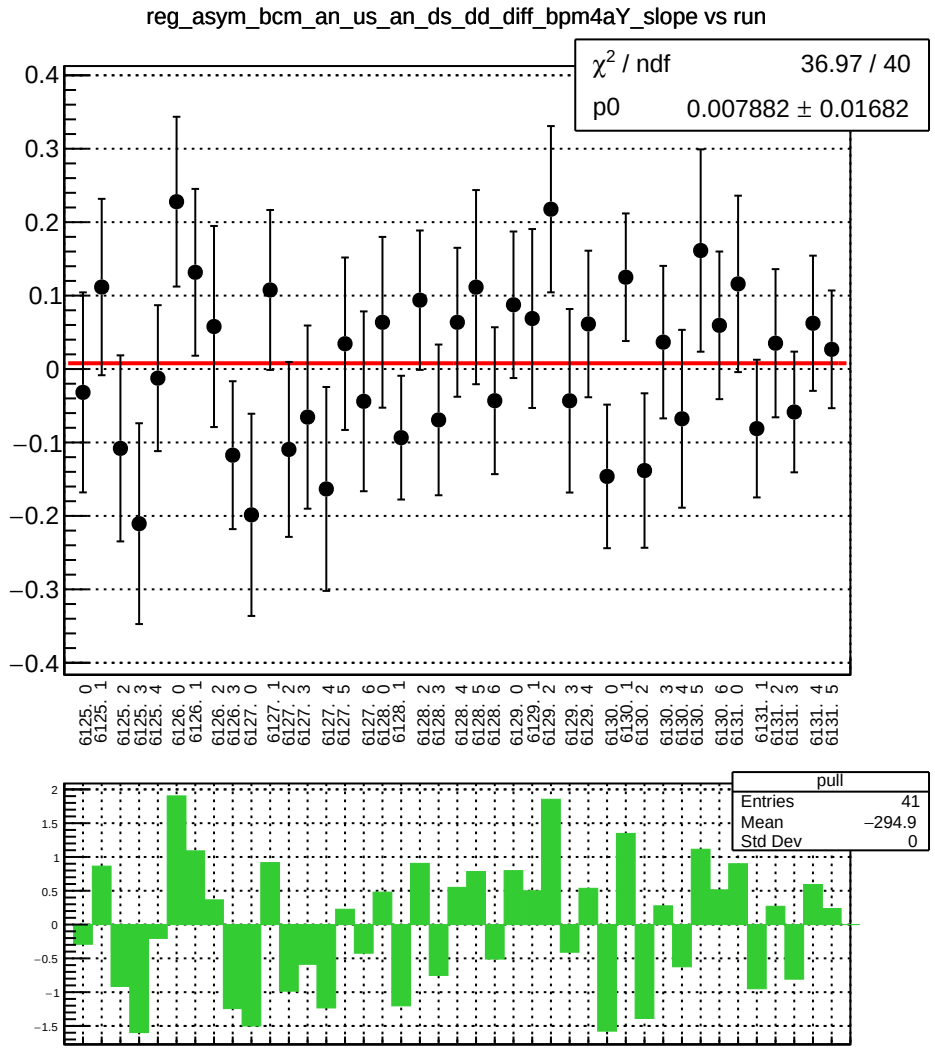

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 2383 / 40
p0 36.49 ± 0.4985
pull
Entries 41
Mean 5.275
Std Dev 0
pull1D
Entries 41
Mean −0.8092
Std Dev 1.945

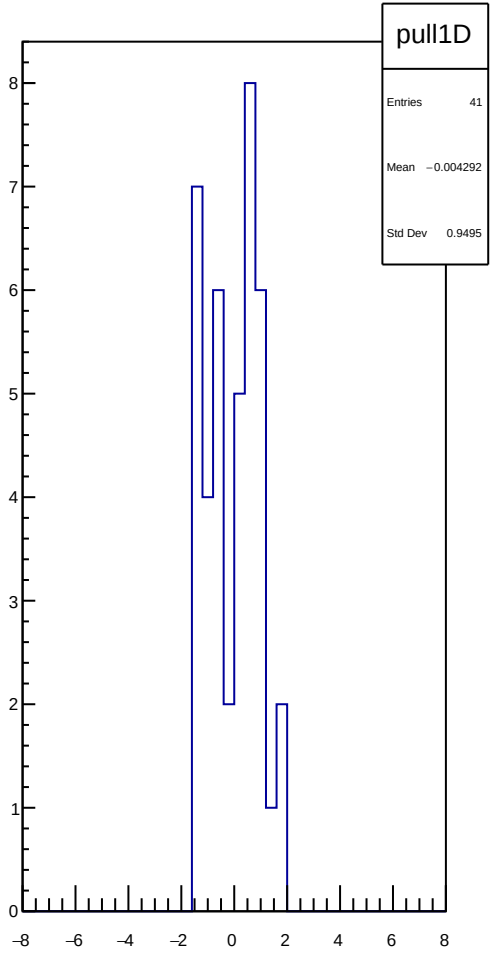

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 157.1 / 40
p0 −8.715 ± 0.4671
0
−20
−40
−60
−80
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 11.16
Std Dev 0
2
0
−2
−4
−6
pull1D
Entries 41
Mean −0.3251
Std Dev 1.93
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

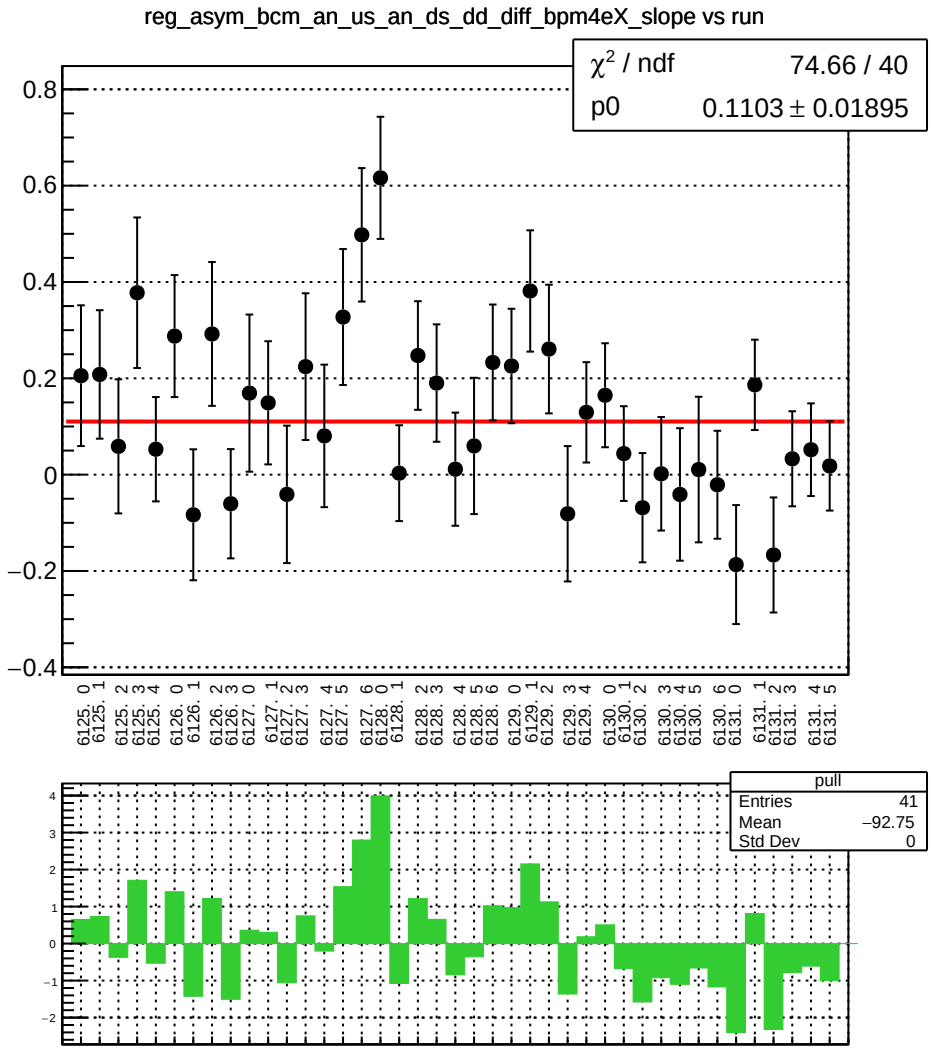

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 706.8 / 40
p0 −1.917 ± 0.03899
pull
Entries 41
Mean 5.372
Std Dev 0
pull1D
Entries 41
Mean 0.262
Std Dev 1.725

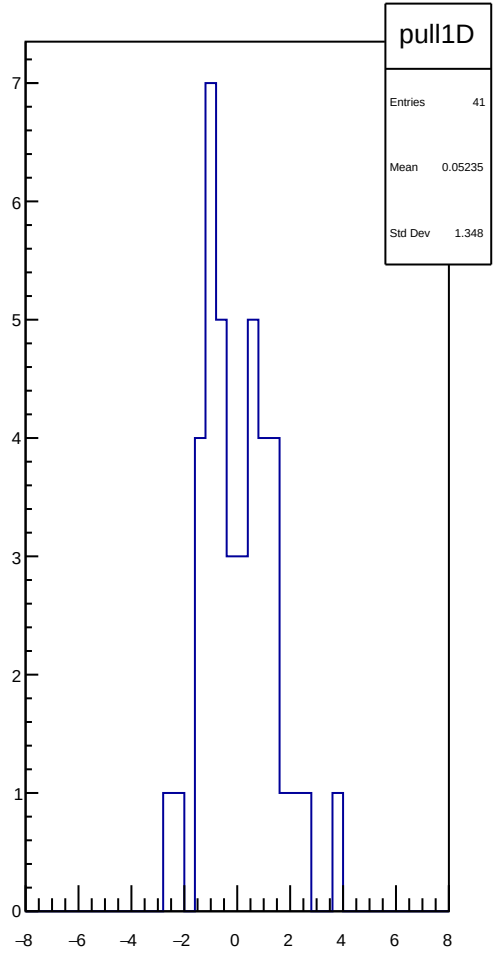

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 77.88 / 40
p0 −0.1106 ± 0.01555
0.2
0
−0.2
−0.4
−0.6
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean −85.94
Std Dev 0
2
1
0
−1
−2
−3
−4

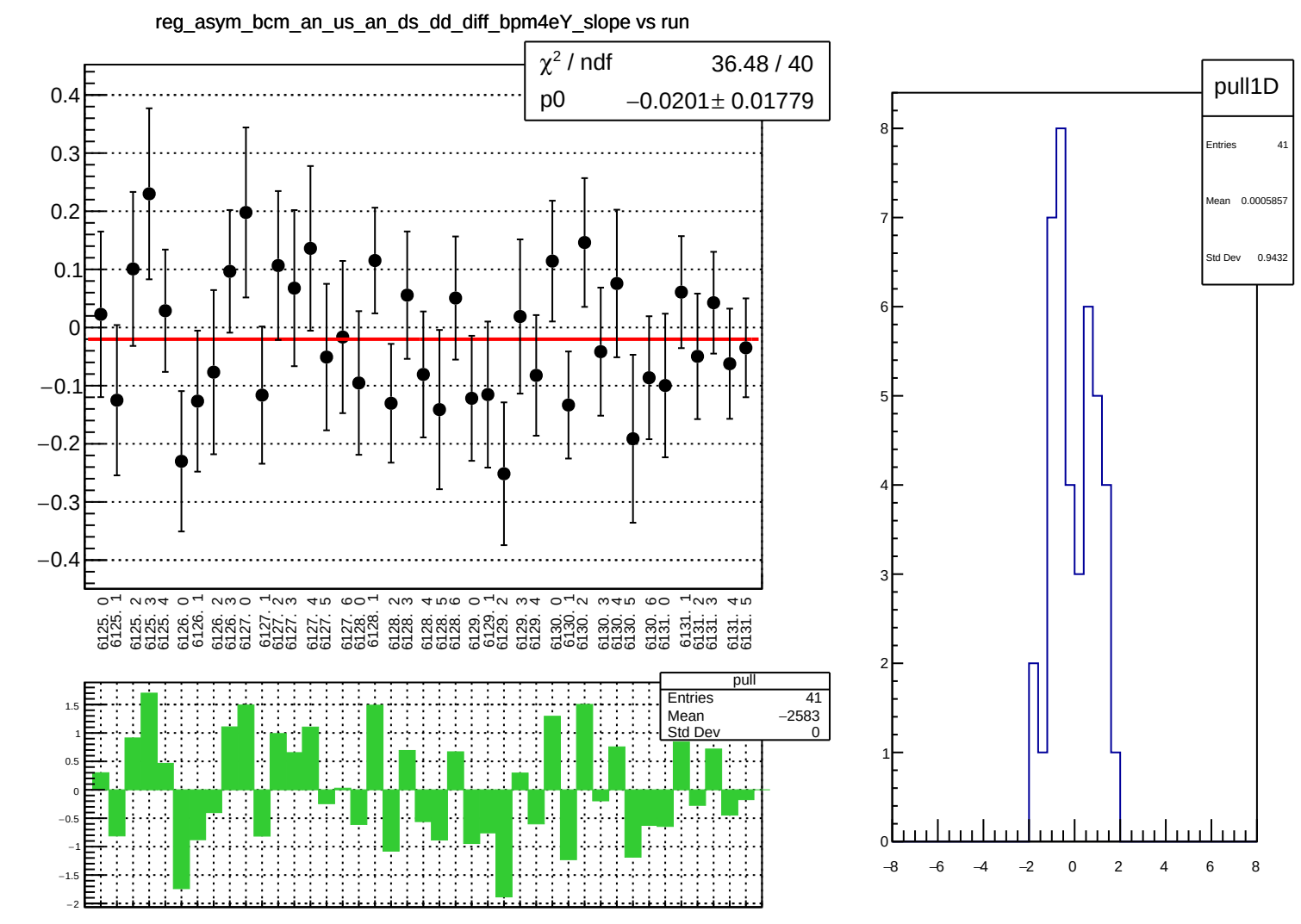

pull1D
Entries 41
Mean −0.05977
Std Dev 1.377
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

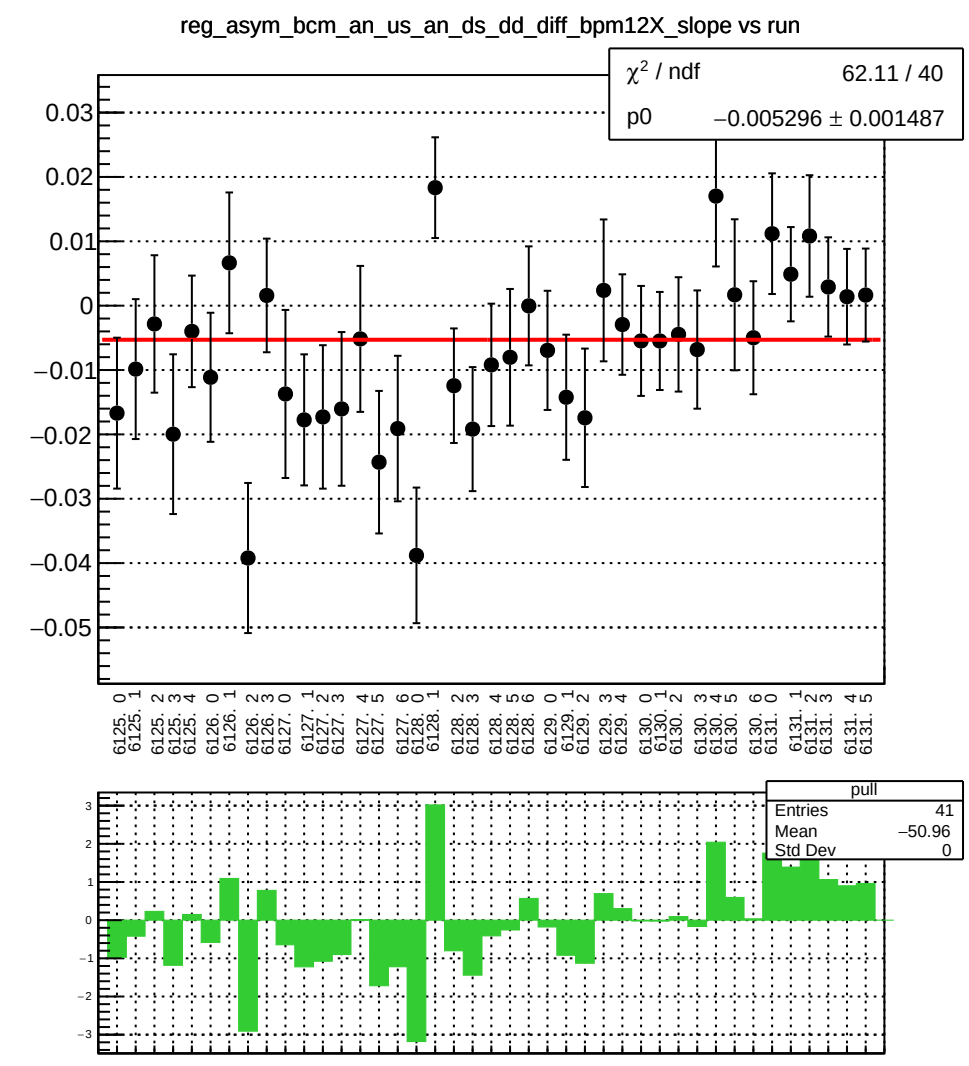

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.97 / 40
p0 0.007882 ± 0.01682
pull
Entries 41
Mean −294.9
Std Dev 0

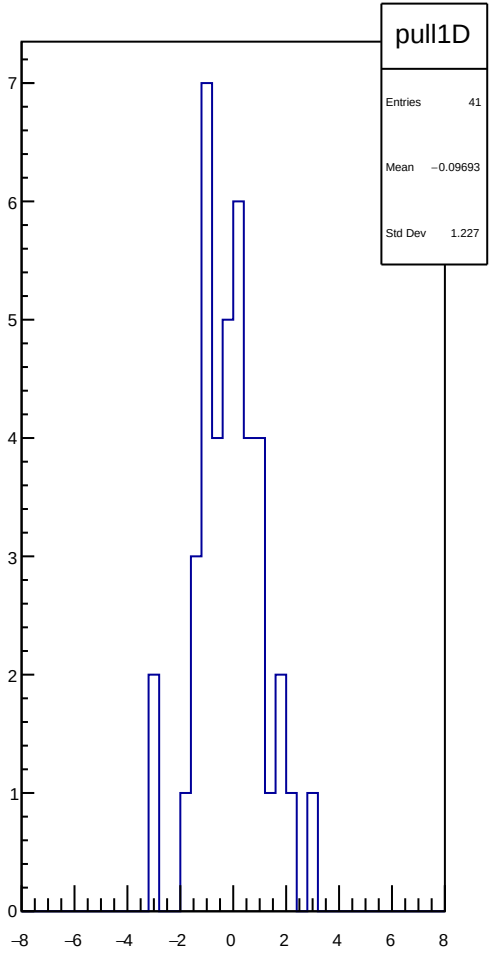

pull1D
Entries 41
Mean −0.004292
Std Dev 0.9495

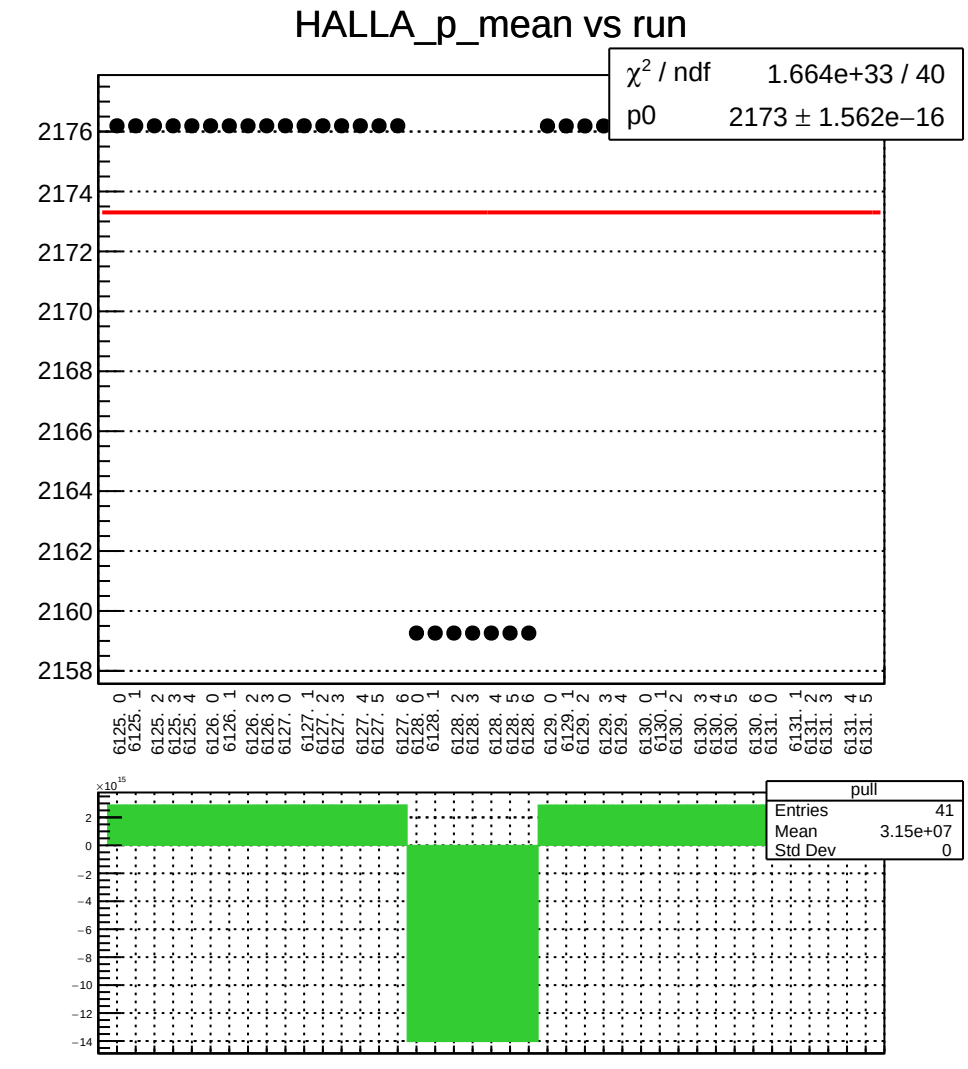

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.66 / 40
p0 0.1103 ± 0.01895
pull
Entries 41
Mean −92.75
Std Dev 0

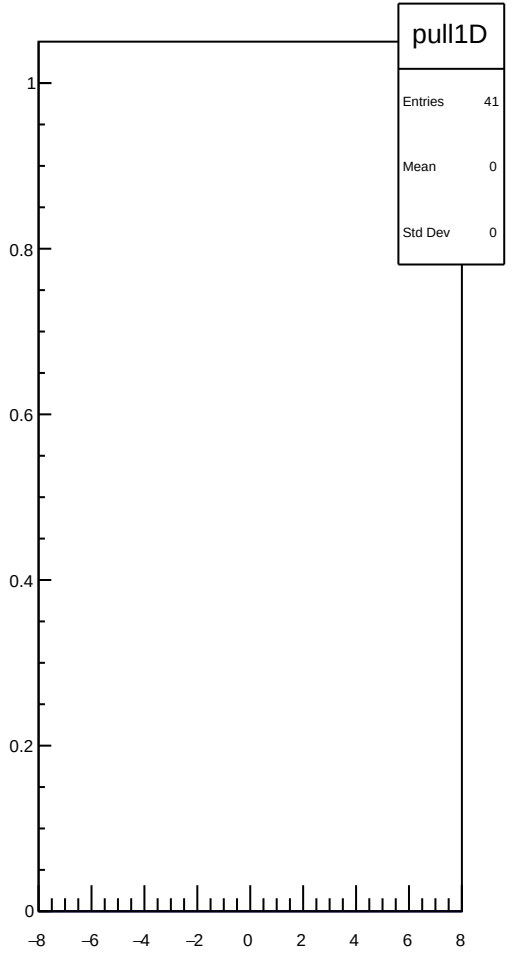

pull1D
Entries 41
Mean 0.05235
Std Dev 1.348

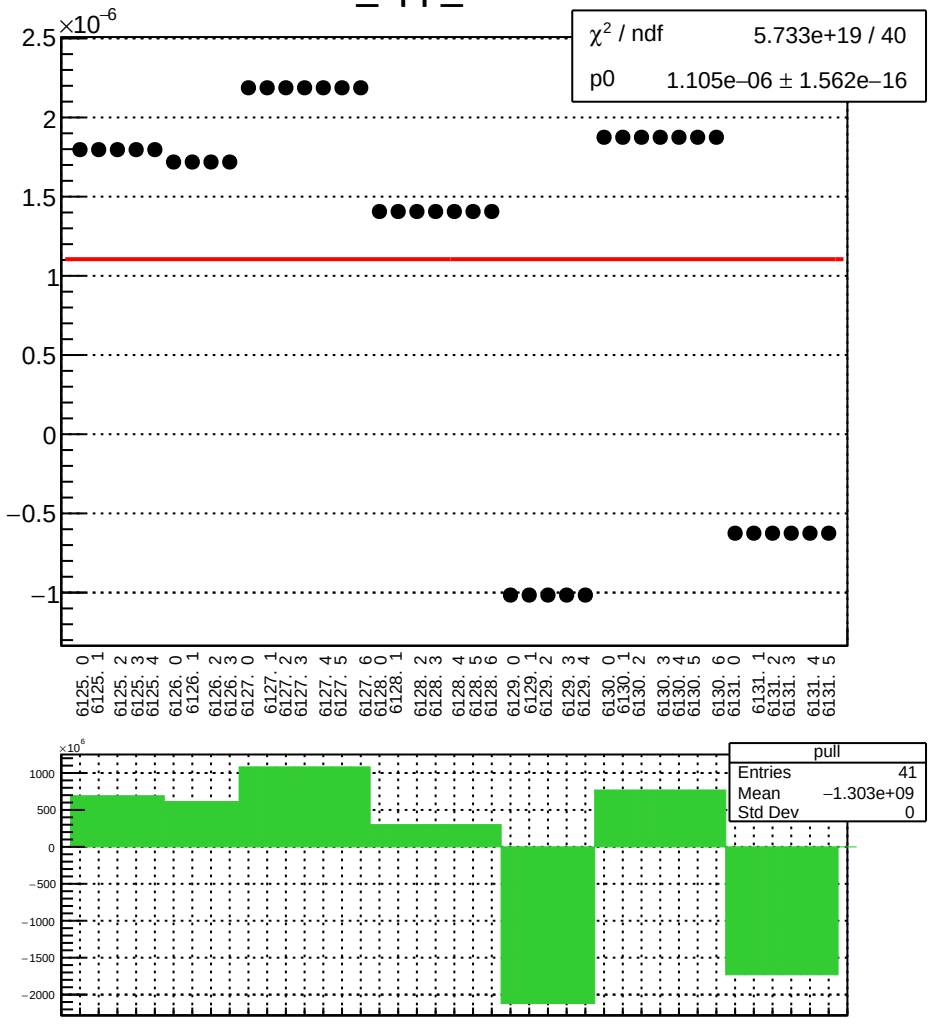

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.48 / 40
p0 −0.0201± 0.01779
pull
Entries 41
Mean −2583
Std Dev 0
pull1D
Entries 41
Mean 0.0005857
Std Dev 0.9432

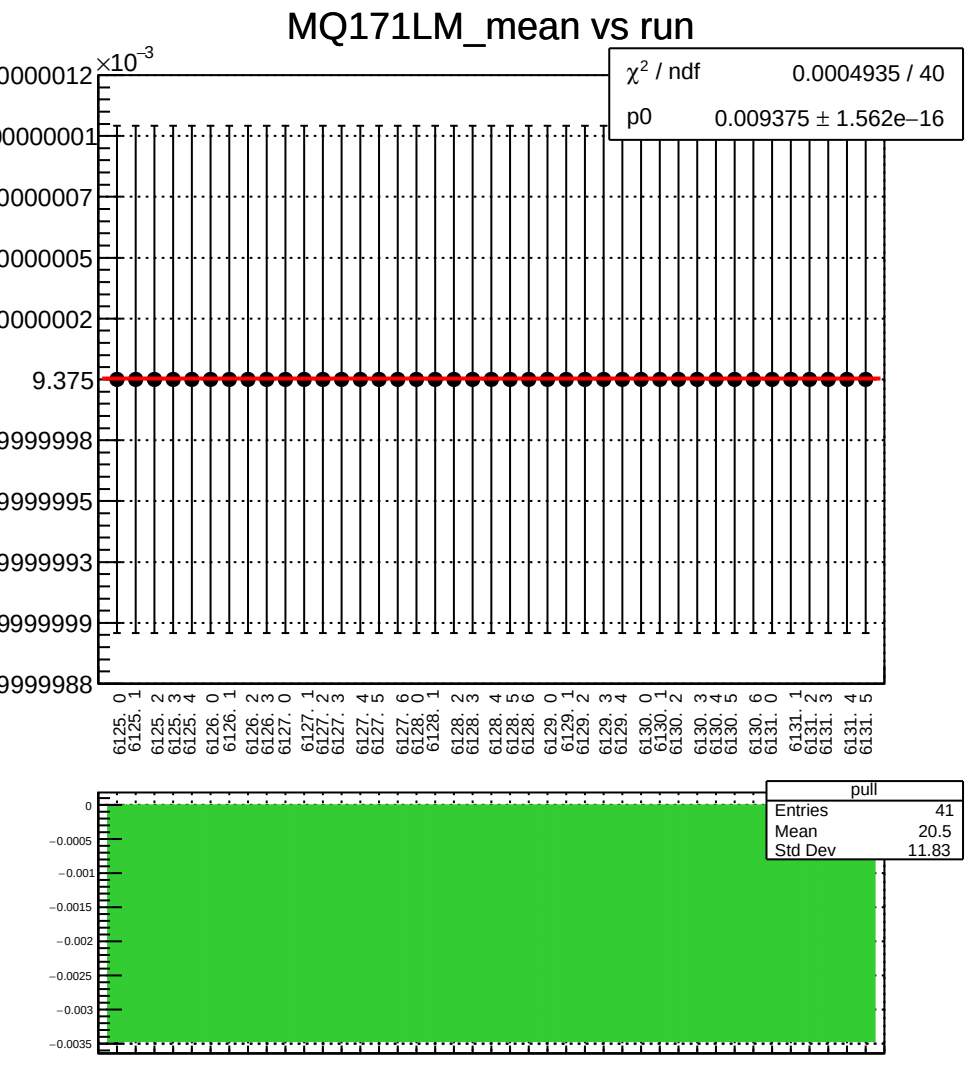

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 62.11 / 40
p0 −0.005296 ± 0.001487
pull
Entries 41
Mean −50.96
Std Dev 0

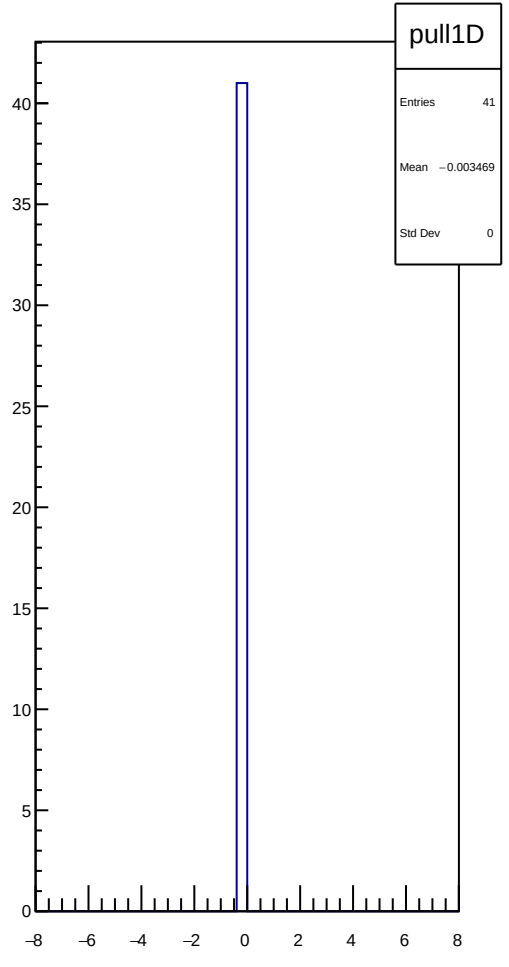

pull1D
Entries 41
Mean −0.09693
Std Dev 1.227

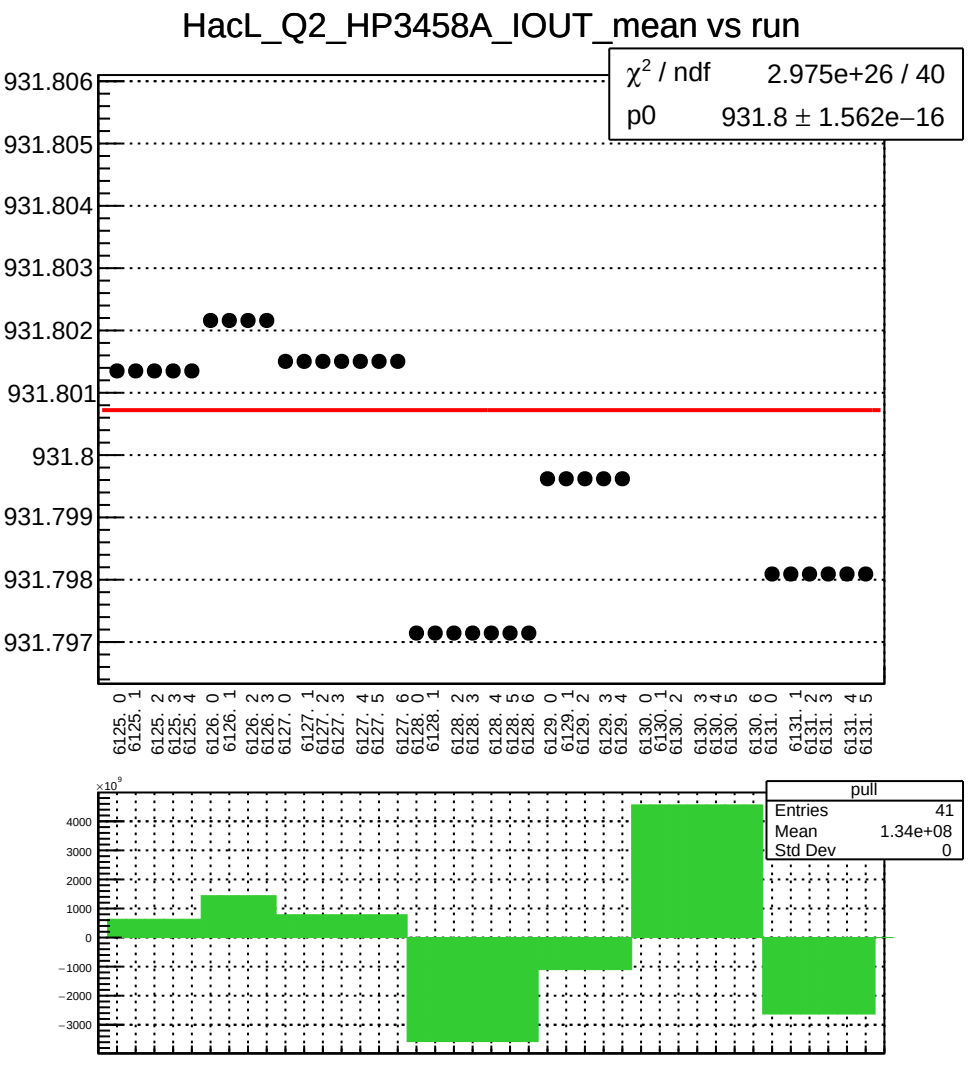

HALLA_p_mean vs run
χ² / ndf 1.664e+33 / 40
p0 2173 ± 1.562e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14
pull
Entries 41
Mean 3.15e+07
Std Dev 0

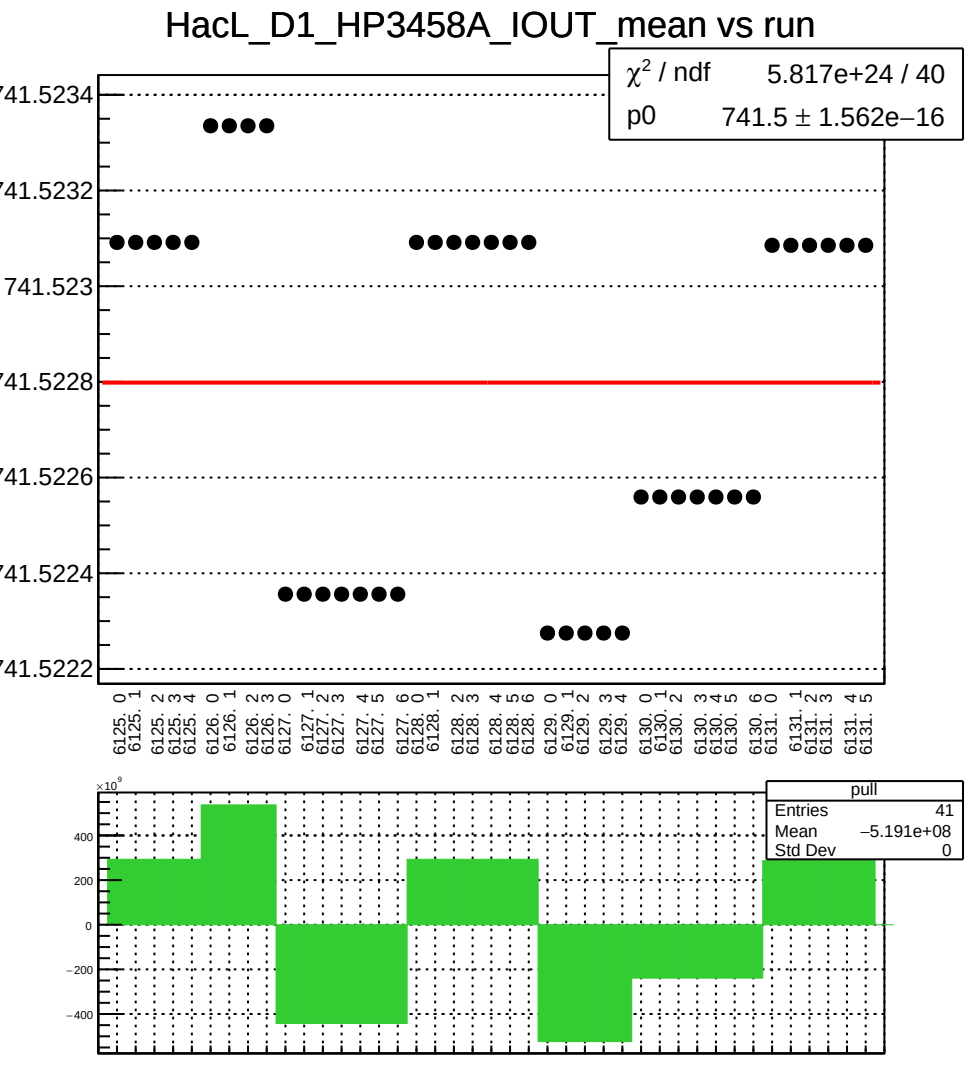

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

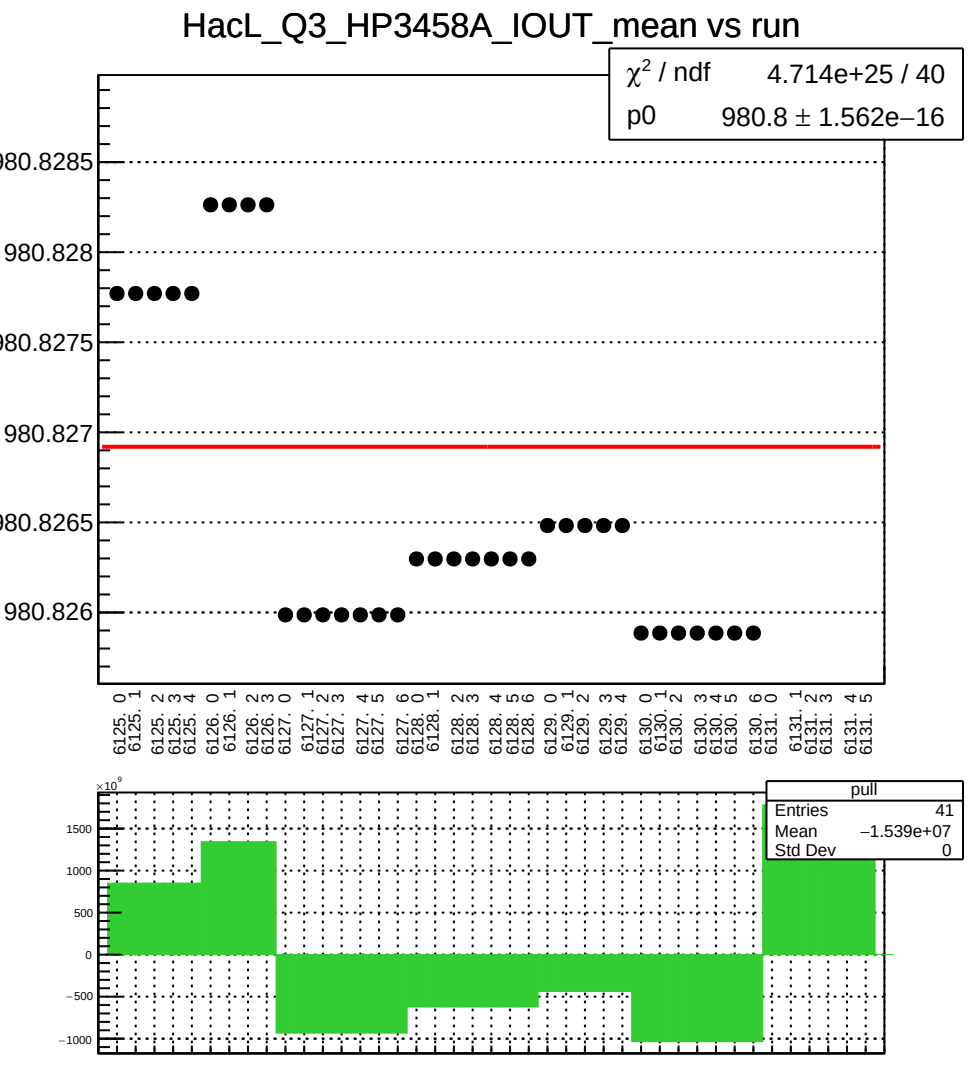

HALLA_dpp_mean vs run
×10⁻⁶
χ² / ndf 5.733e+19 / 40
p0 1.105e−06 ± 1.562e−16
2.5
2
1.5
1
0.5
0
−0.5
−1
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
×10⁶
pull
Entries 41
Mean −1.303e+09
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

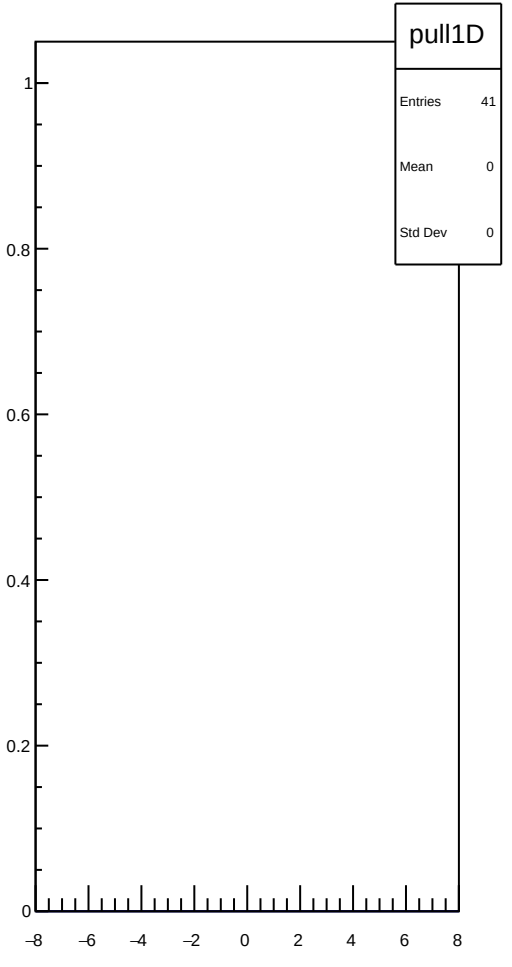

MQ171LM_mean vs run
χ² / ndf 0.0004935 / 40
p0 0.009375 ± 1.562e−16
×10⁻³
pull
Entries 41
Mean 20.5
Std Dev 11.83

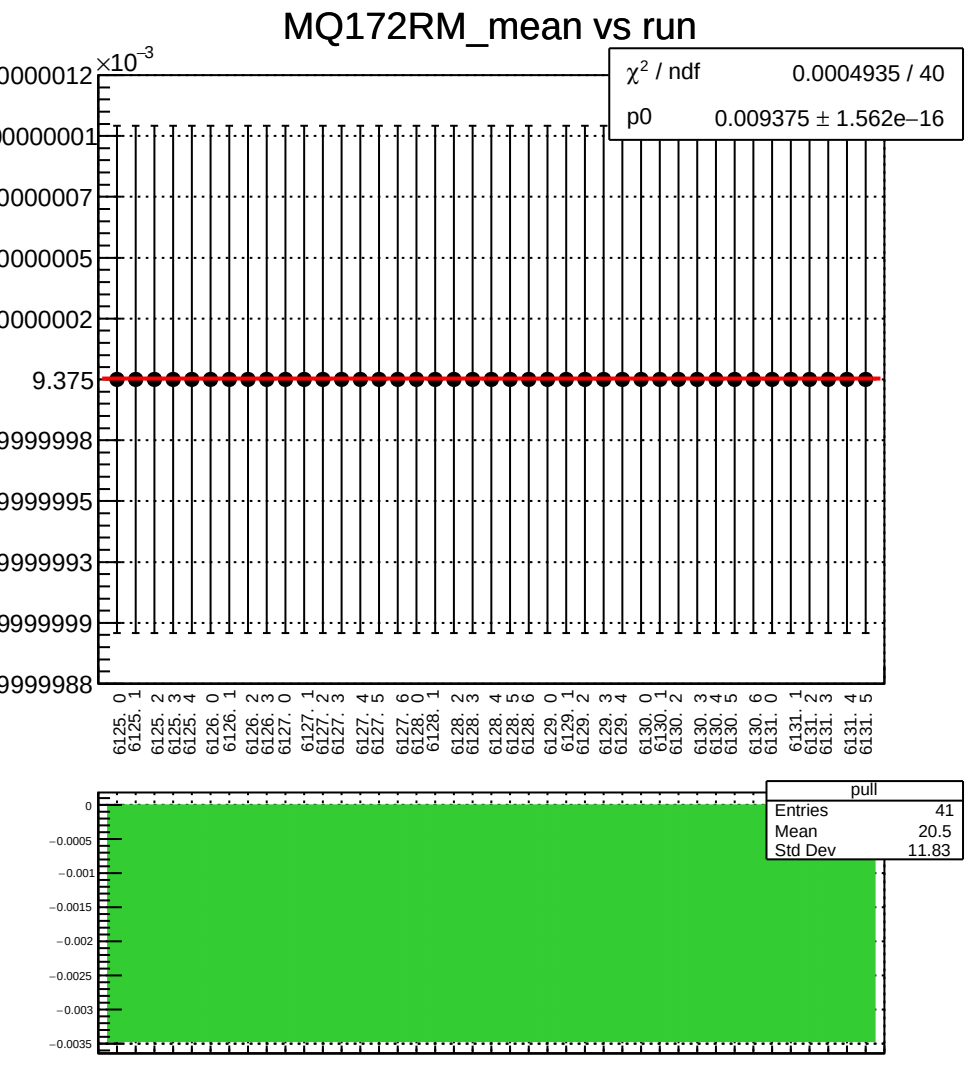

pull1D
Entries 41
Mean −0.003469
Std Dev 0

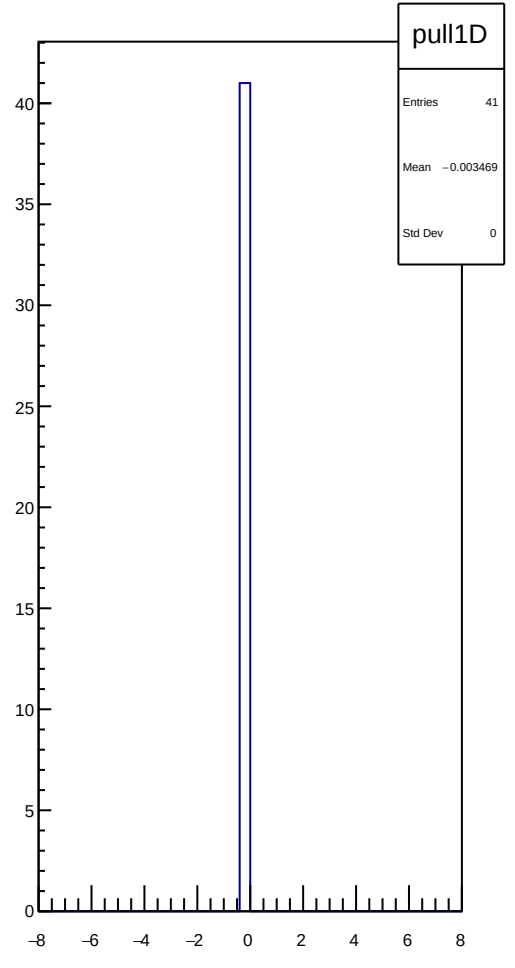

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.975e+26 / 40
p0 931.8 ± 1.562e−16
931.806
931.805
931.804
931.803
931.802
931.801
931.8
931.799
931.798
931.797
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 41
Mean 1.34e+08
Std Dev 0
pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

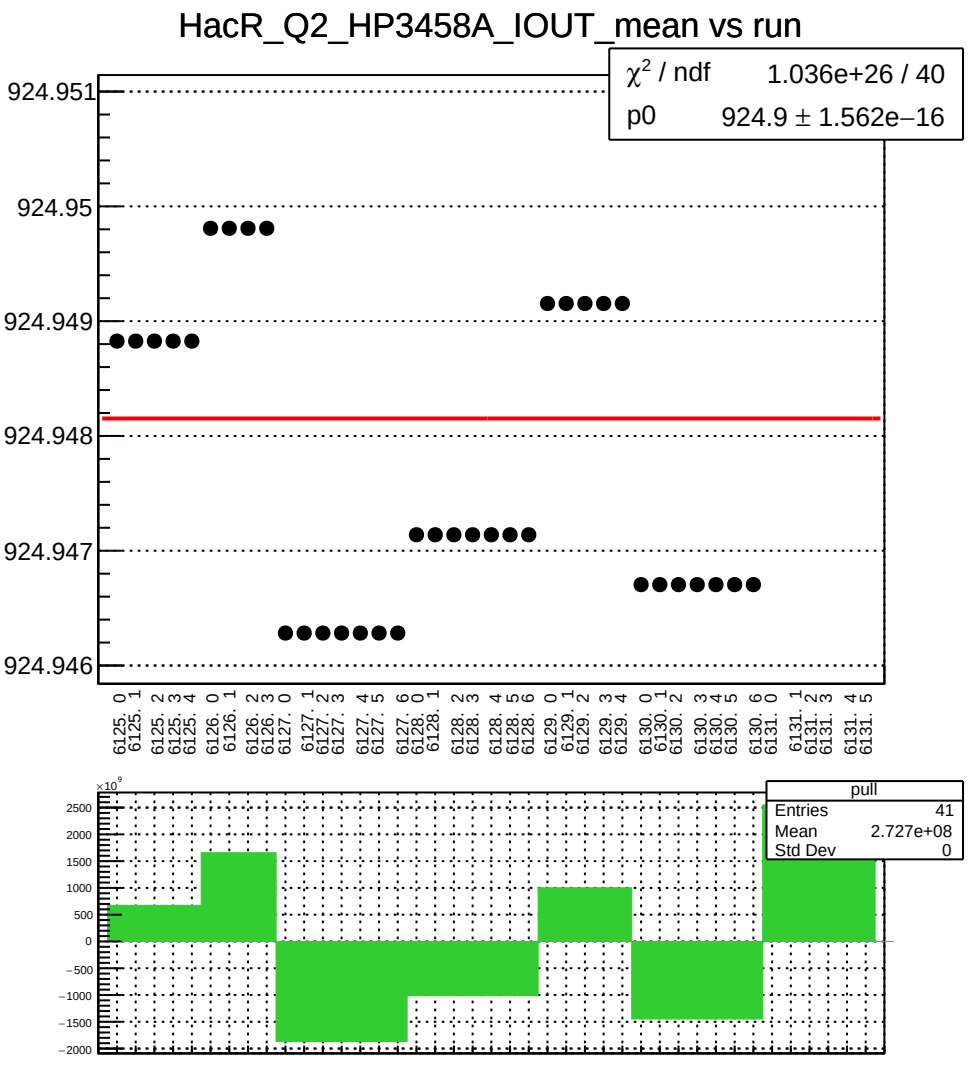

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 5.817e+24 / 40
p0 741.5 ± 1.562e−16
741.5234
741.5232
741.523
741.5228
741.5226
741.5224
741.5222
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
×10⁹
400
200
0
−200
−400
pull
Entries 41
Mean −5.191e+08
Std Dev 0
pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

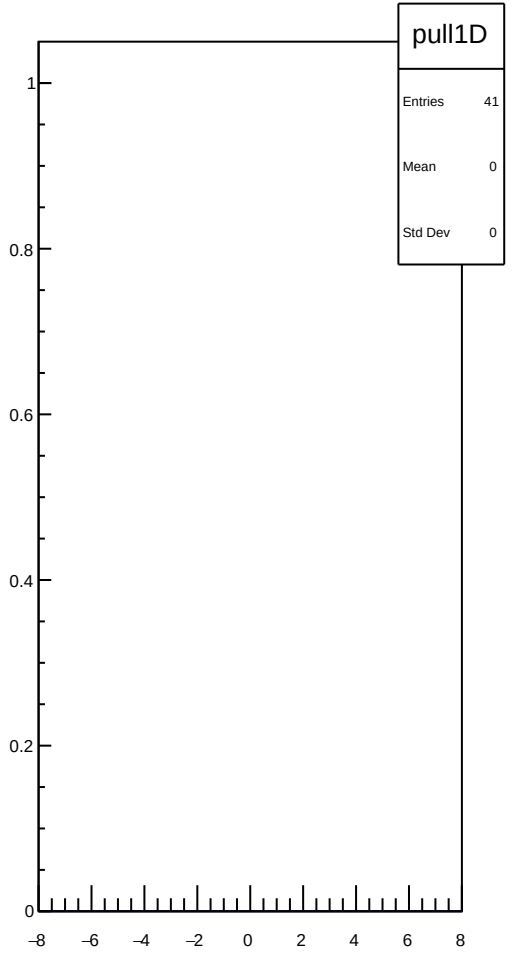

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 4.714e+25 / 40
p0 980.8 ± 1.562e−16
980.8285
980.828
980.8275
980.827
980.8265
980.826
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
×10⁹
1500
1000
500
0
−500
−1000
pull
Entries 41
Mean −1.539e+07
Std Dev 0

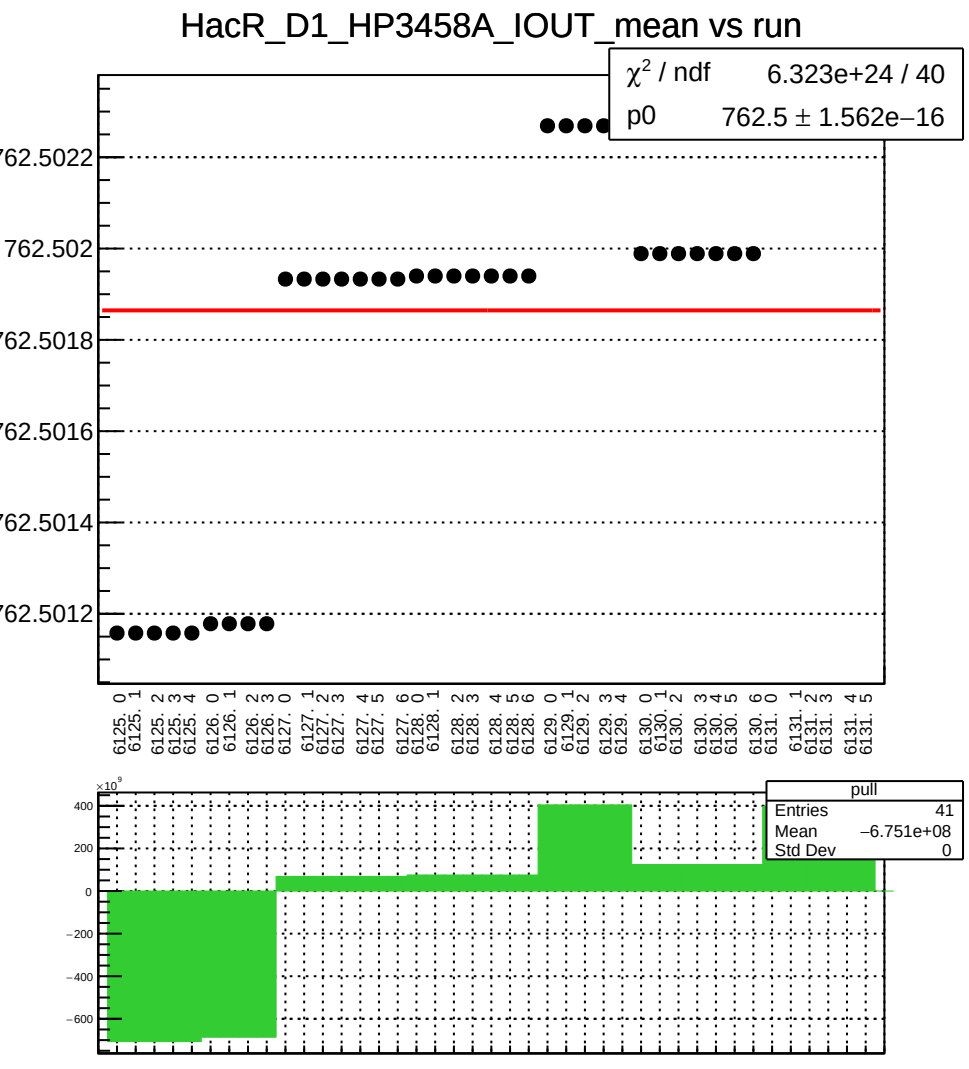

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

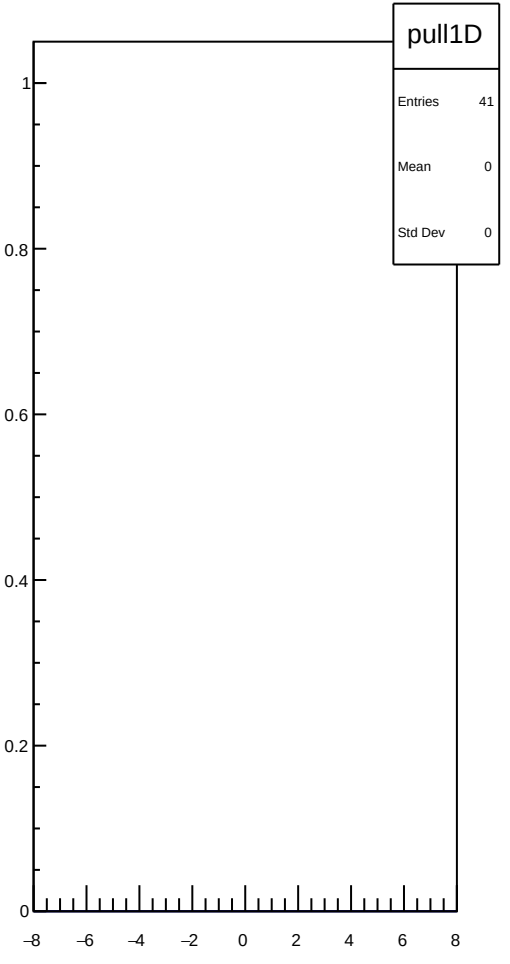

MQ172RM_mean vs run
χ² / ndf 0.0004935 / 40
p0 0.009375 ± 1.562e−16
×10⁻³
9.375
pull
Entries 41
Mean 20.5
Std Dev 11.83

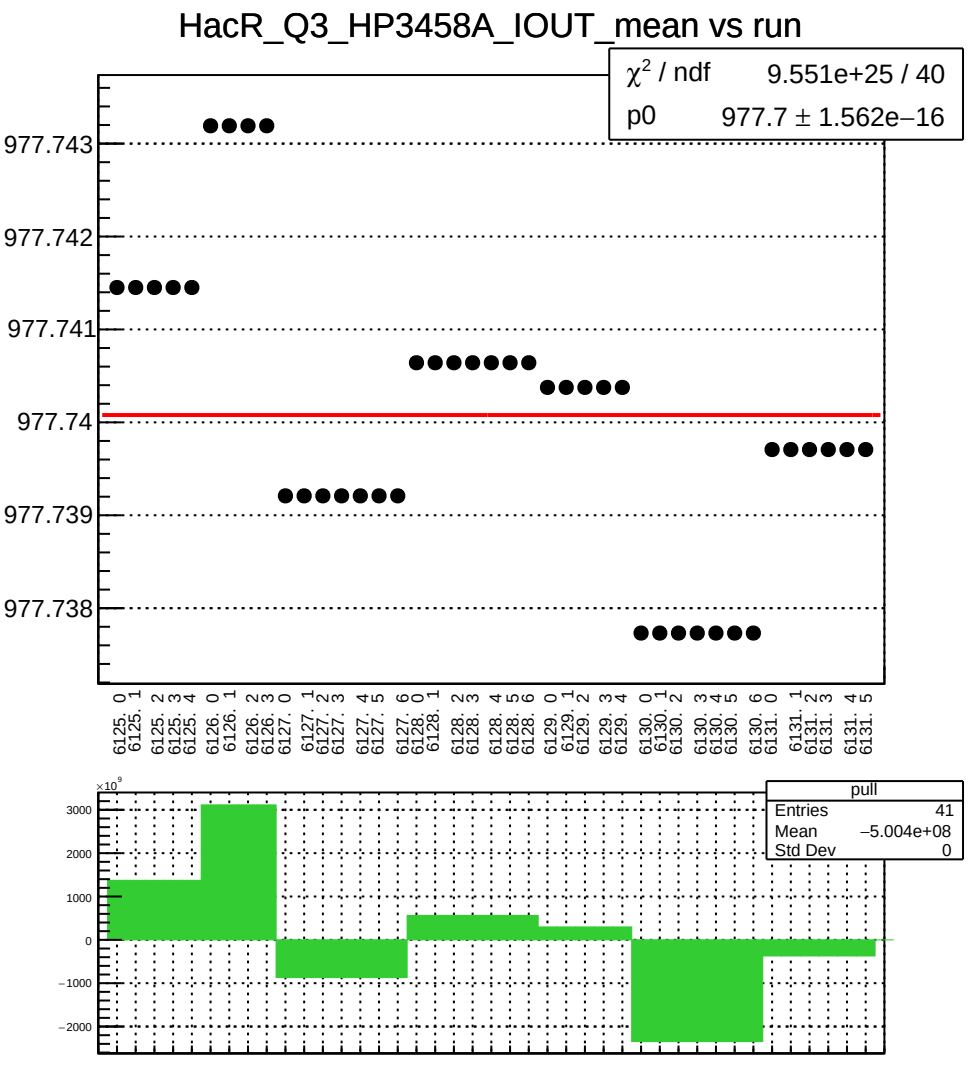

pull1D
Entries 41
Mean −0.003469
Std Dev 0

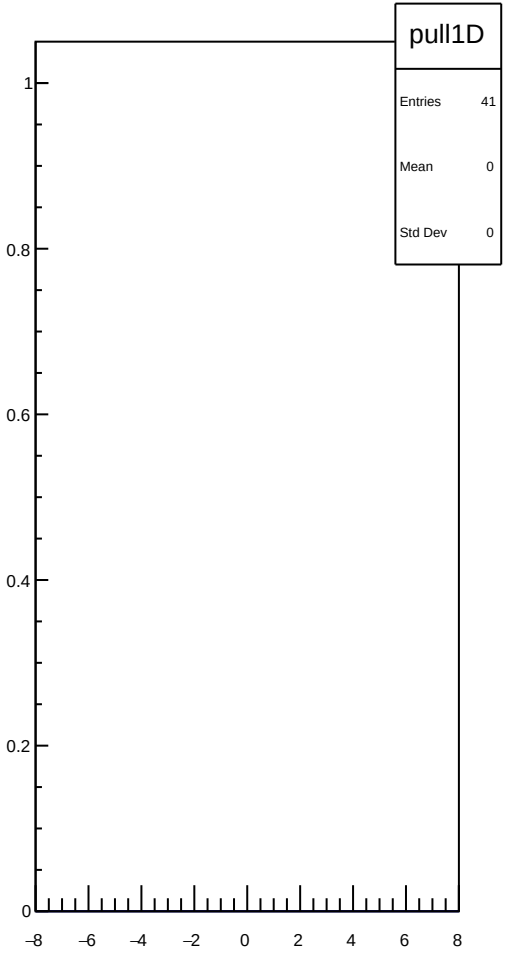

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.036e+26 / 40
p0 924.9 ± 1.562e−16
924.951
924.95
924.949
924.948
924.947
924.946
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
×10⁹
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 41
Mean 2.727e+08
Std Dev 0

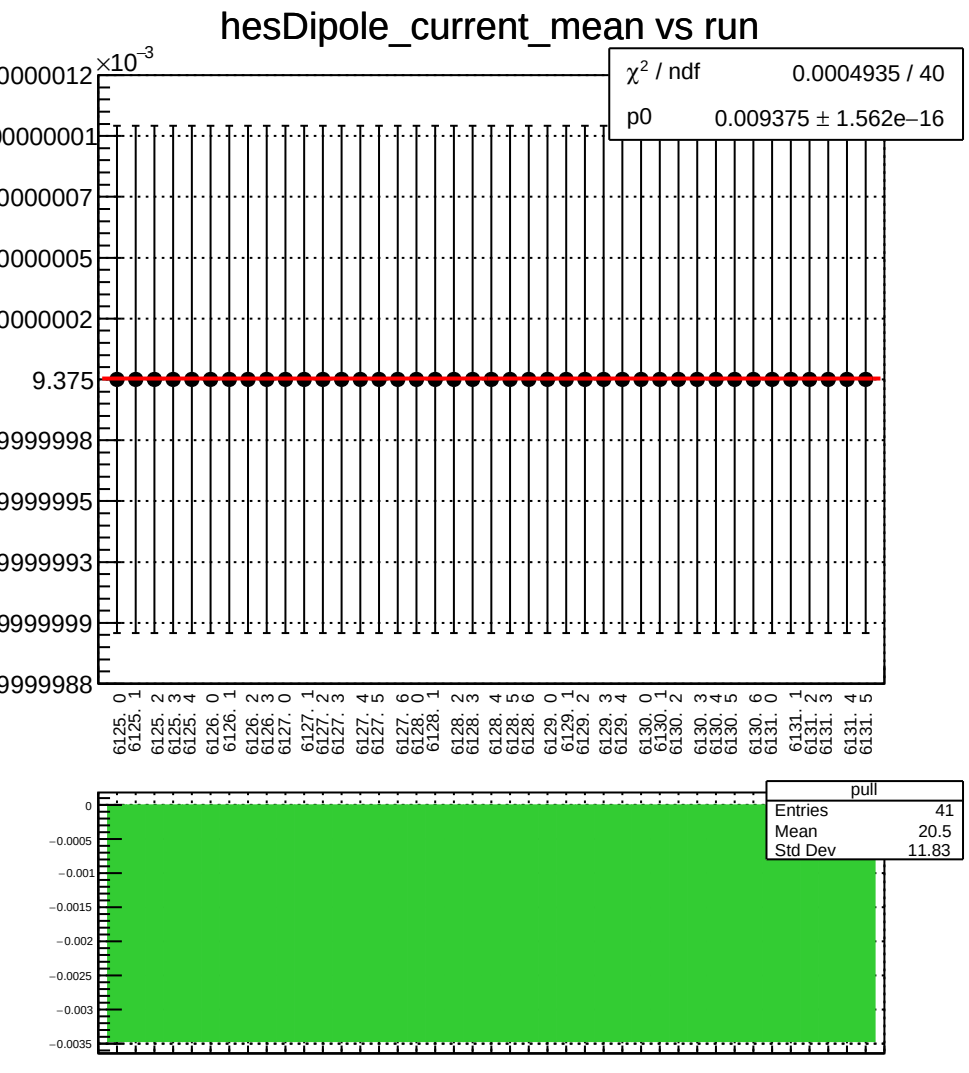

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

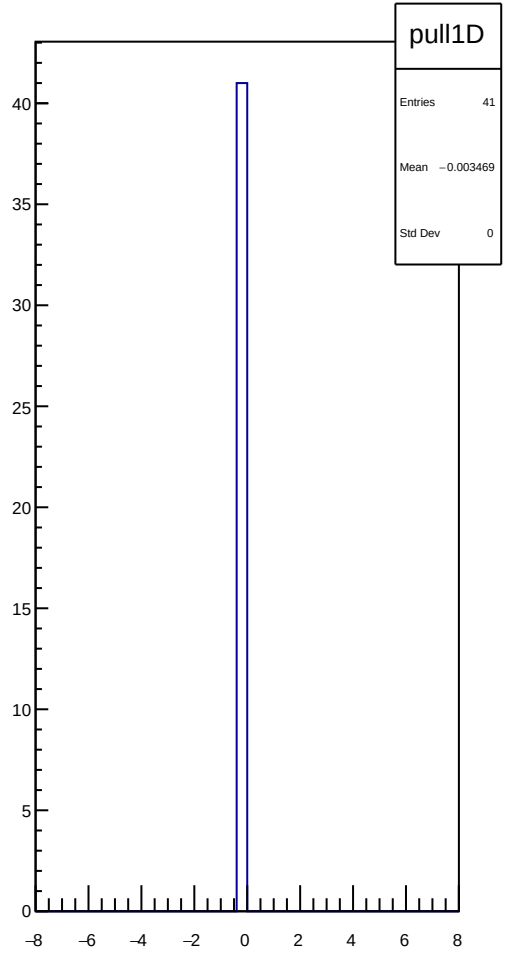

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 6.323e+24 / 40
p0 762.5 ± 1.562e−16
762.5022
762.502
762.5018
762.5016
762.5014
762.5012
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
×10⁹
400
200
0
−200
−400
−600
pull
Entries 41
Mean −6.751e+08
Std Dev 0

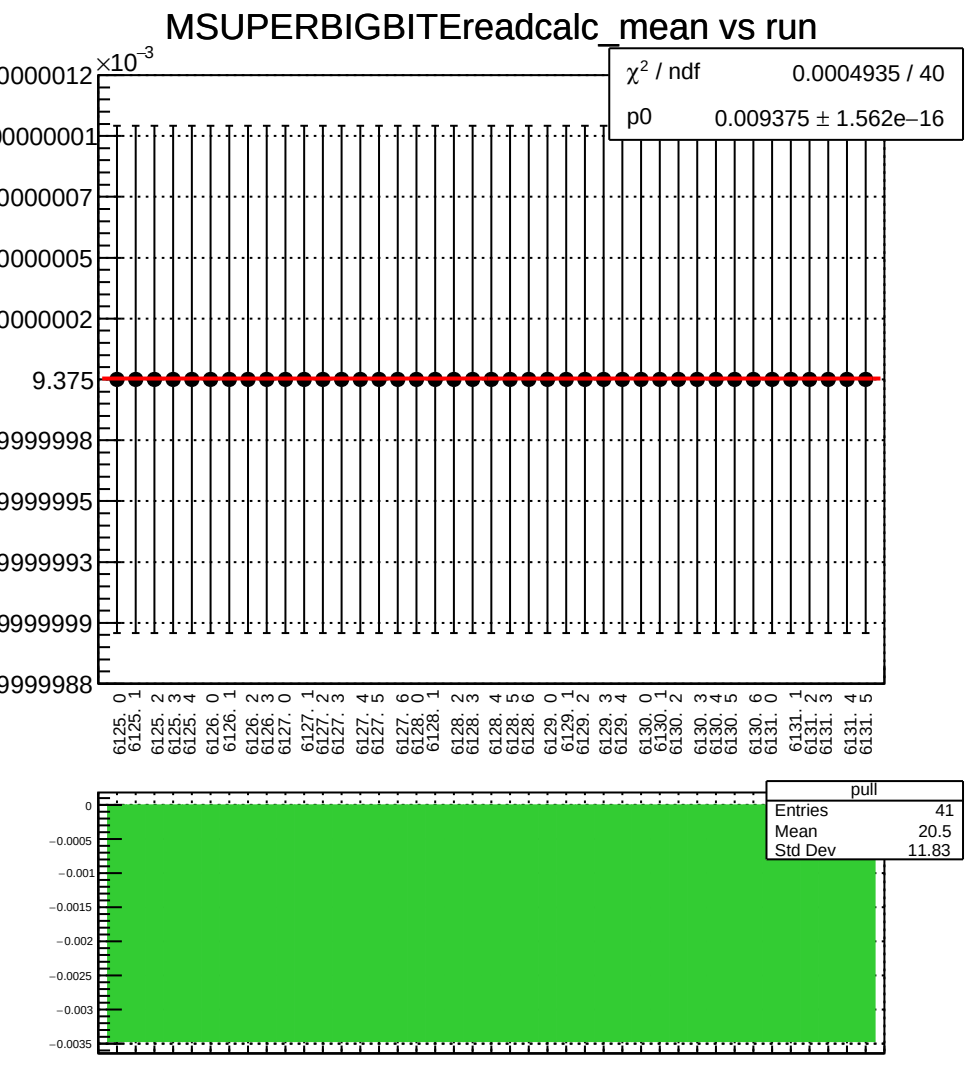

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

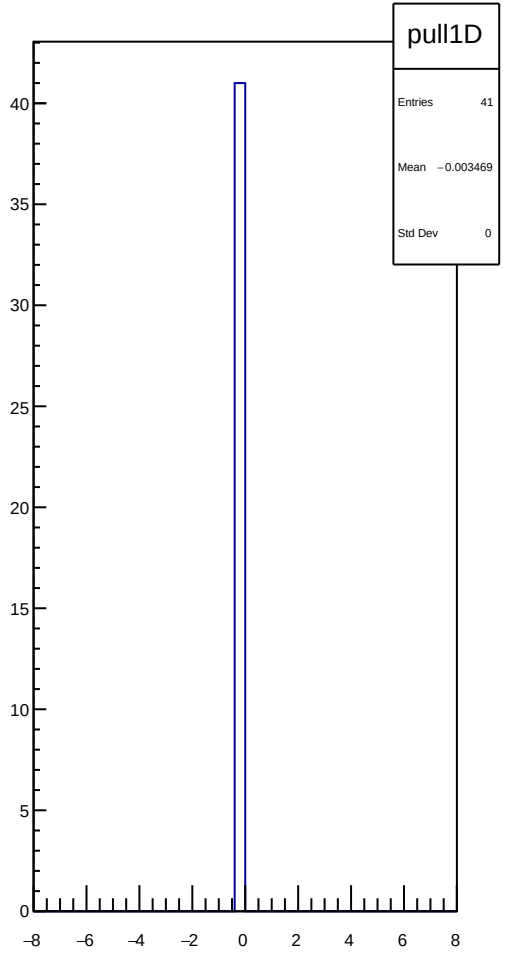

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 9.551e+25 / 40
p0 977.7 ± 1.562e−16
977.743
977.742
977.741
977.74
977.739
977.738
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
×10⁹
3000
2000
1000
0
−1000
−2000
pull
Entries 41
Mean −5.004e+08
Std Dev 0

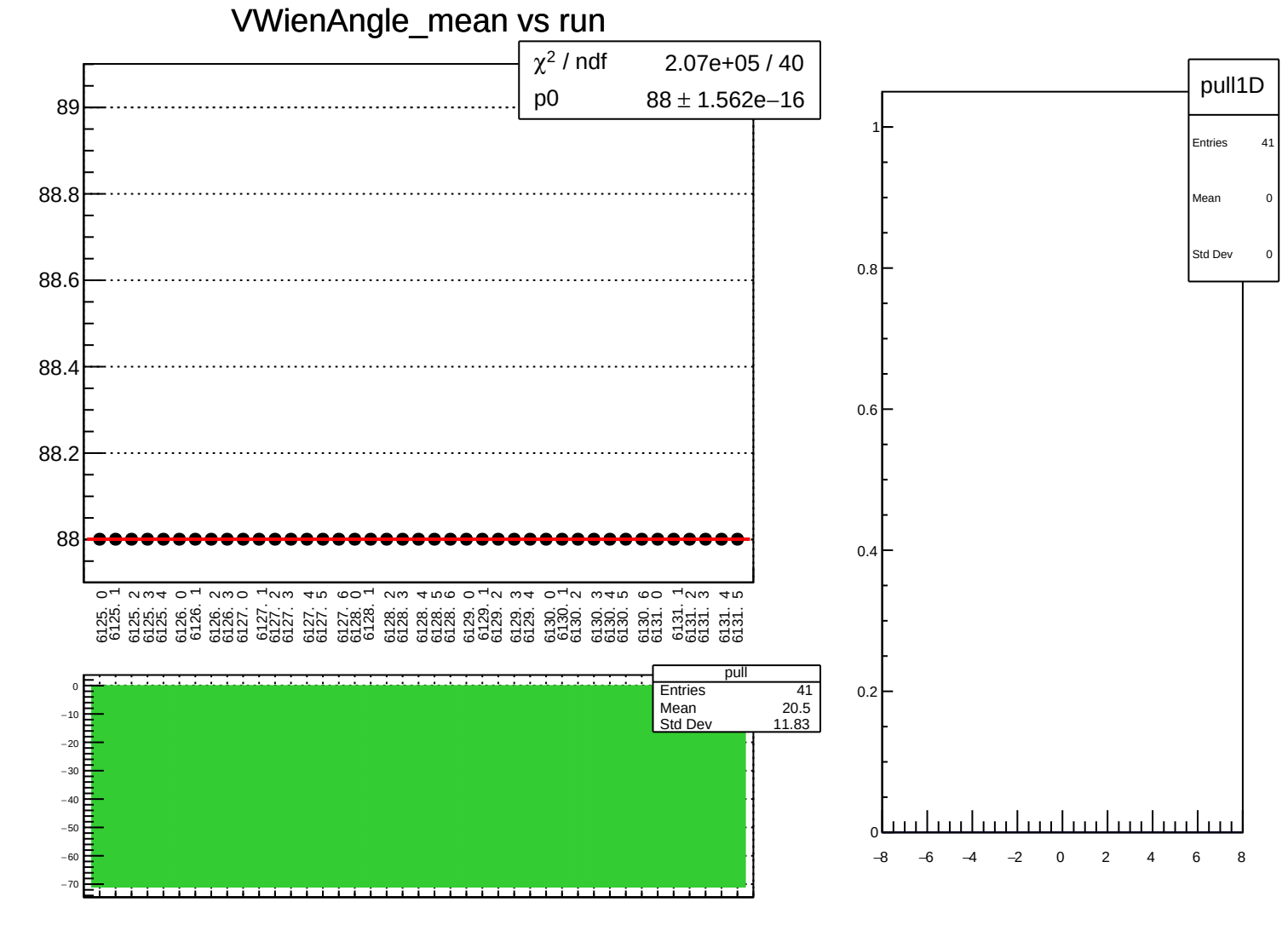

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

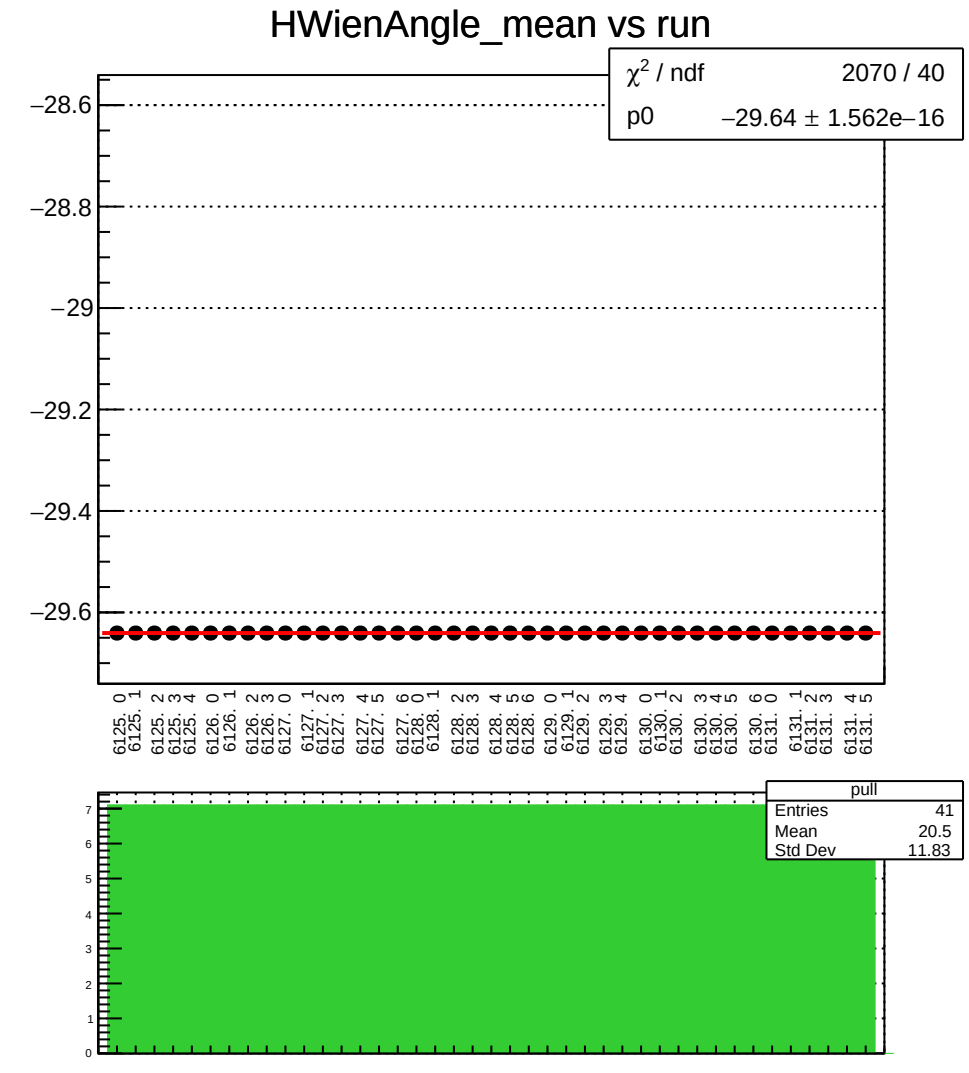

hesDipole_current_mean vs run
χ² / ndf 0.0004935 / 40
p0 0.009375 ± 1.562e−16
×10⁻³
9.375
pull
Entries 41
Mean 20.5
Std Dev 11.83

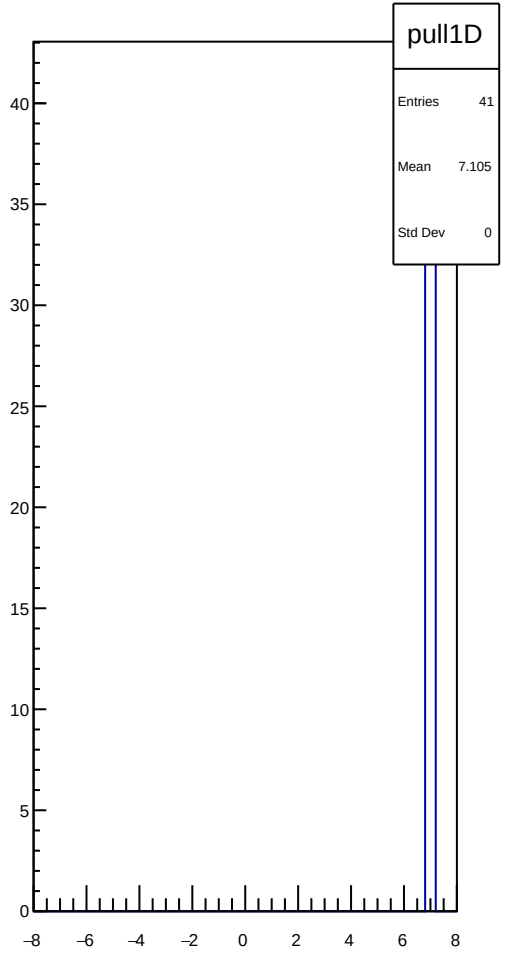

pull1D
Entries 41
Mean −0.003469
Std Dev 0

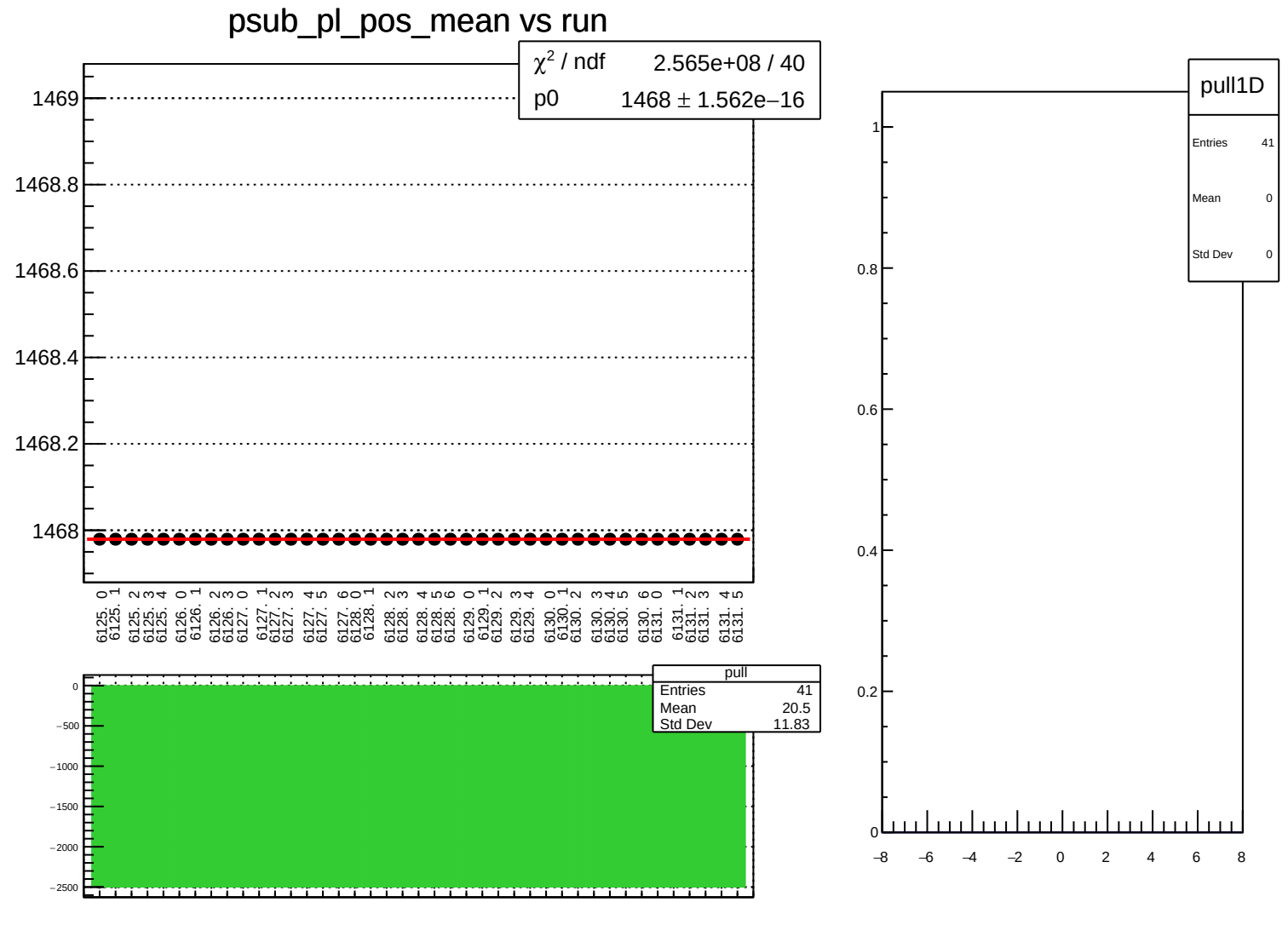

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.0004935 / 40
p0 0.009375 ± 1.562e−16
×10⁻³
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 20.5
Std Dev 11.83
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
−0.003
−0.0035

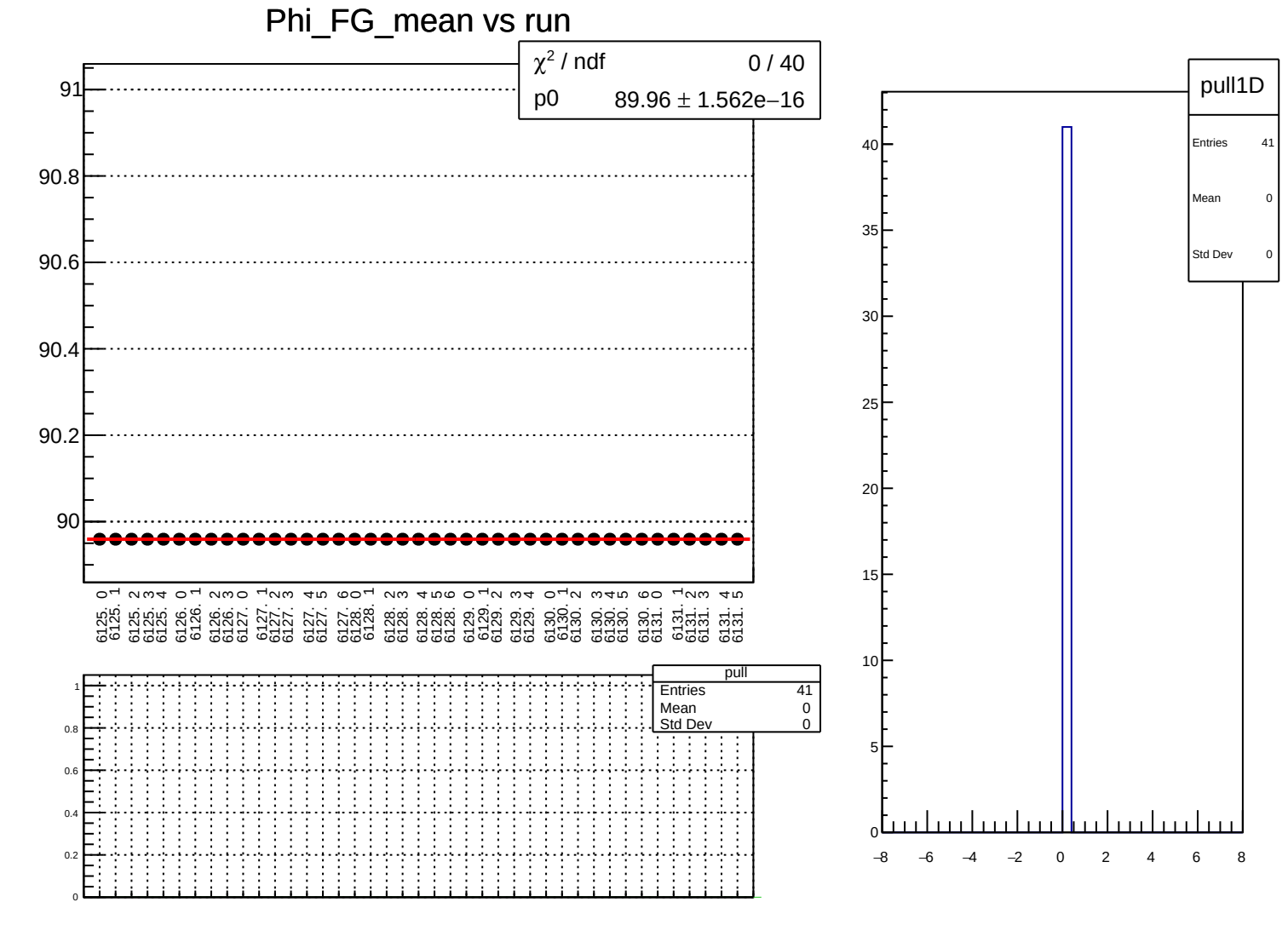

pull1D
Entries 41
Mean −0.003469
Std Dev 0
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

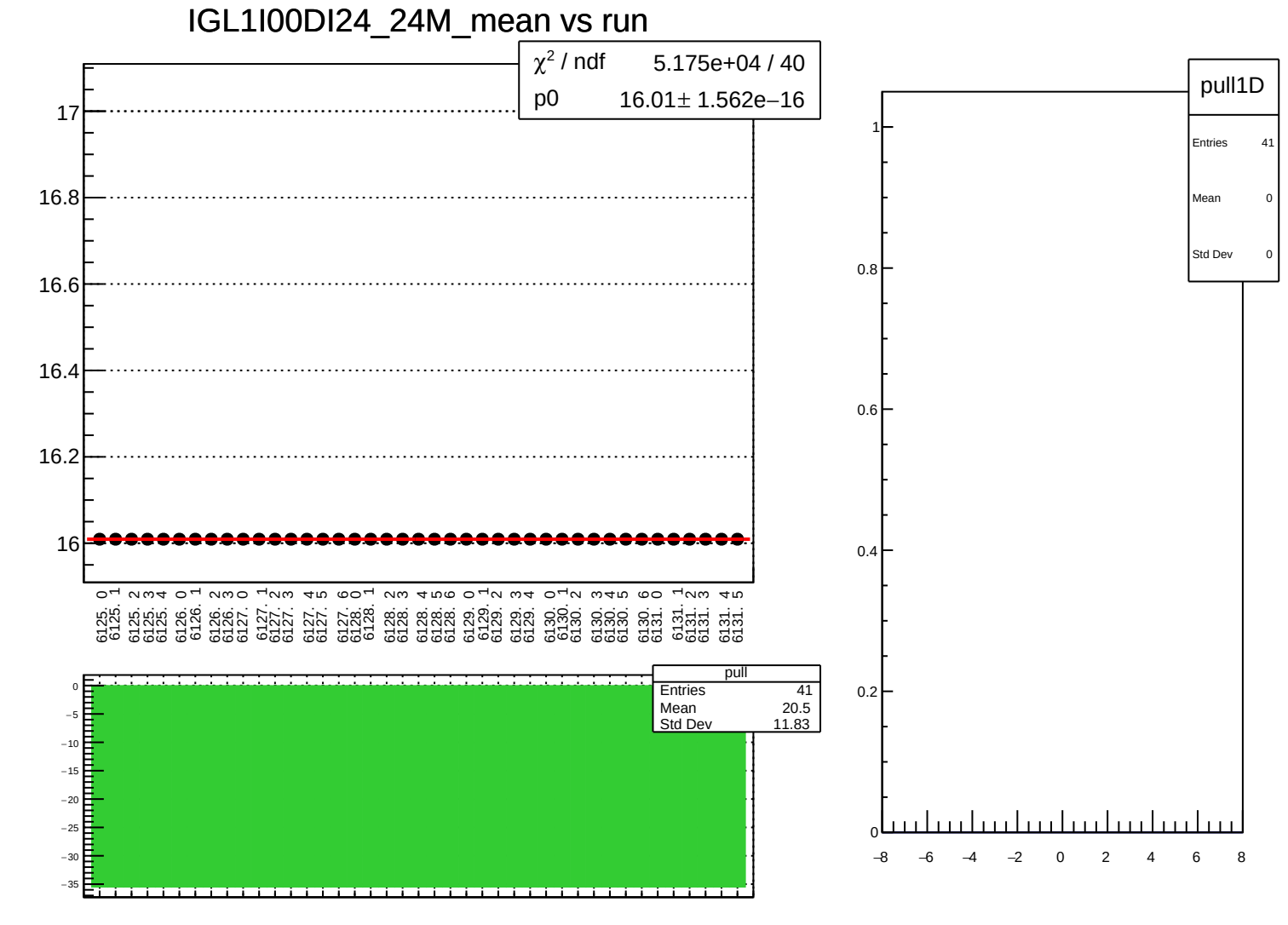

VWienAngle_mean vs run
χ² / ndf 2.07e+05 / 40
p0 88 ± 1.562e−16
89
88.8
88.6
88.4
88.2
88
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 20.5
Std Dev 11.83
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

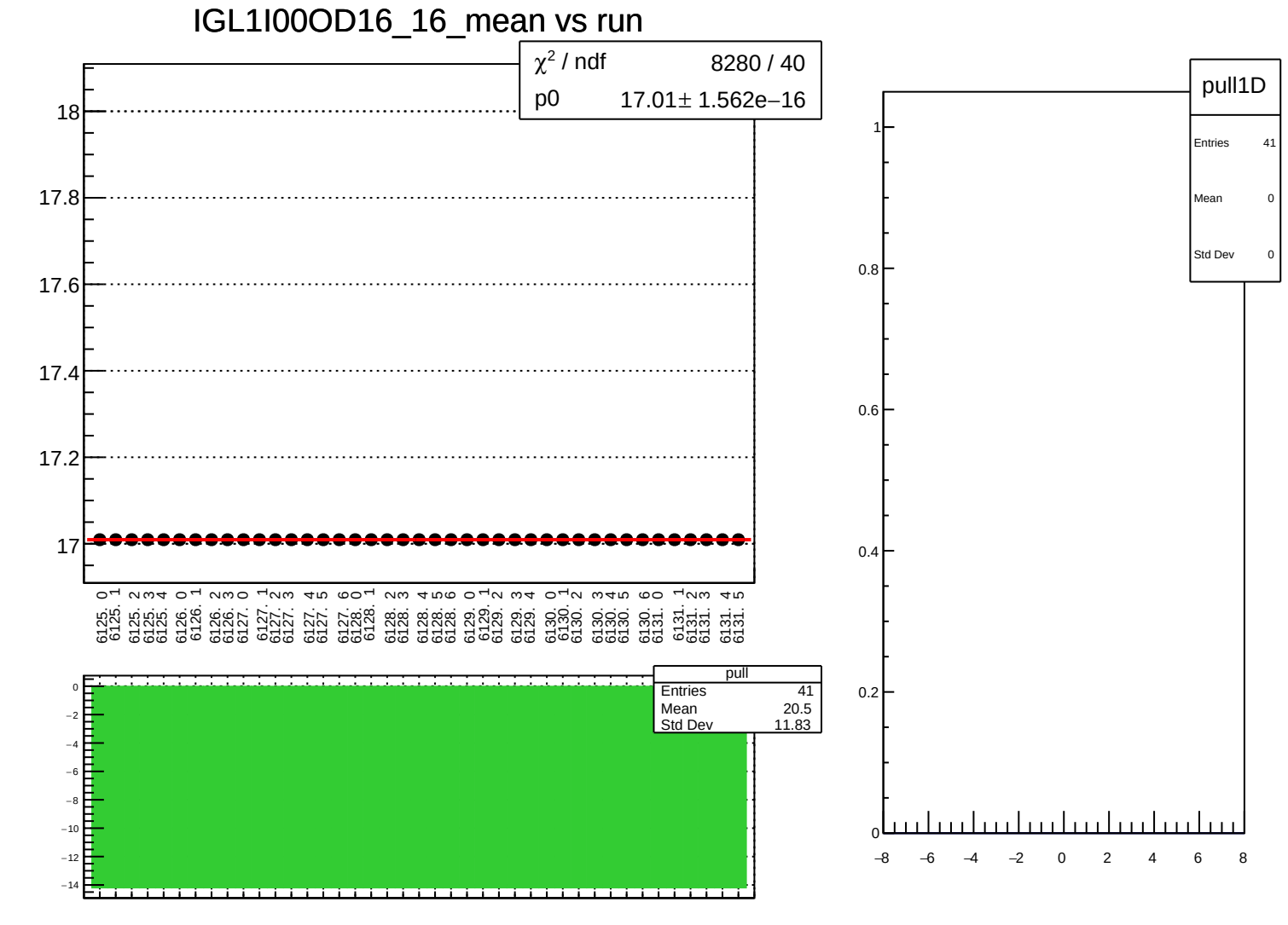

HWienAngle_mean vs run
χ² / ndf 2070 / 40
p0 −29.64 ± 1.562e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 20.5
Std Dev 11.83
0
1
2
3
4
5
6
7

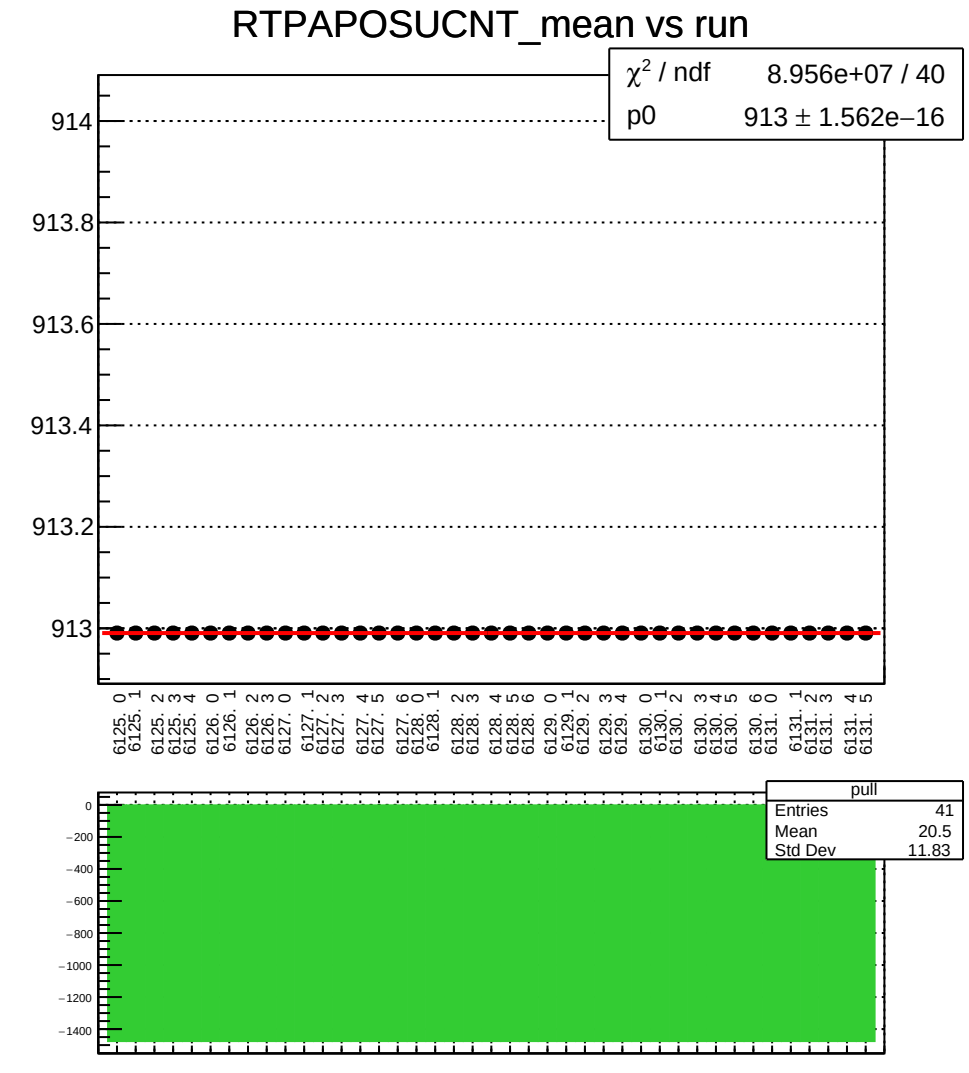

pull1D
Entries 41
Mean 7.105
Std Dev 0
0
5
10
15
20
25
30
35
40
−8
−6
−4
−2
0
2
4
6
8

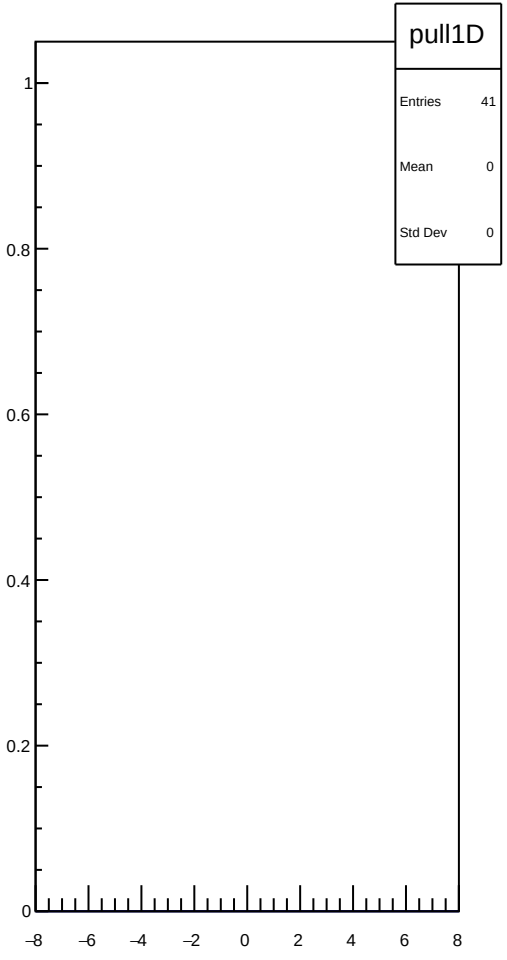

psub_pl_pos_mean vs run
χ² / ndf 2.565e+08 / 40
p0 1468 ± 1.562e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 20.5
Std Dev 11.83
0
−500
−1000
−1500
−2000
−2500
pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

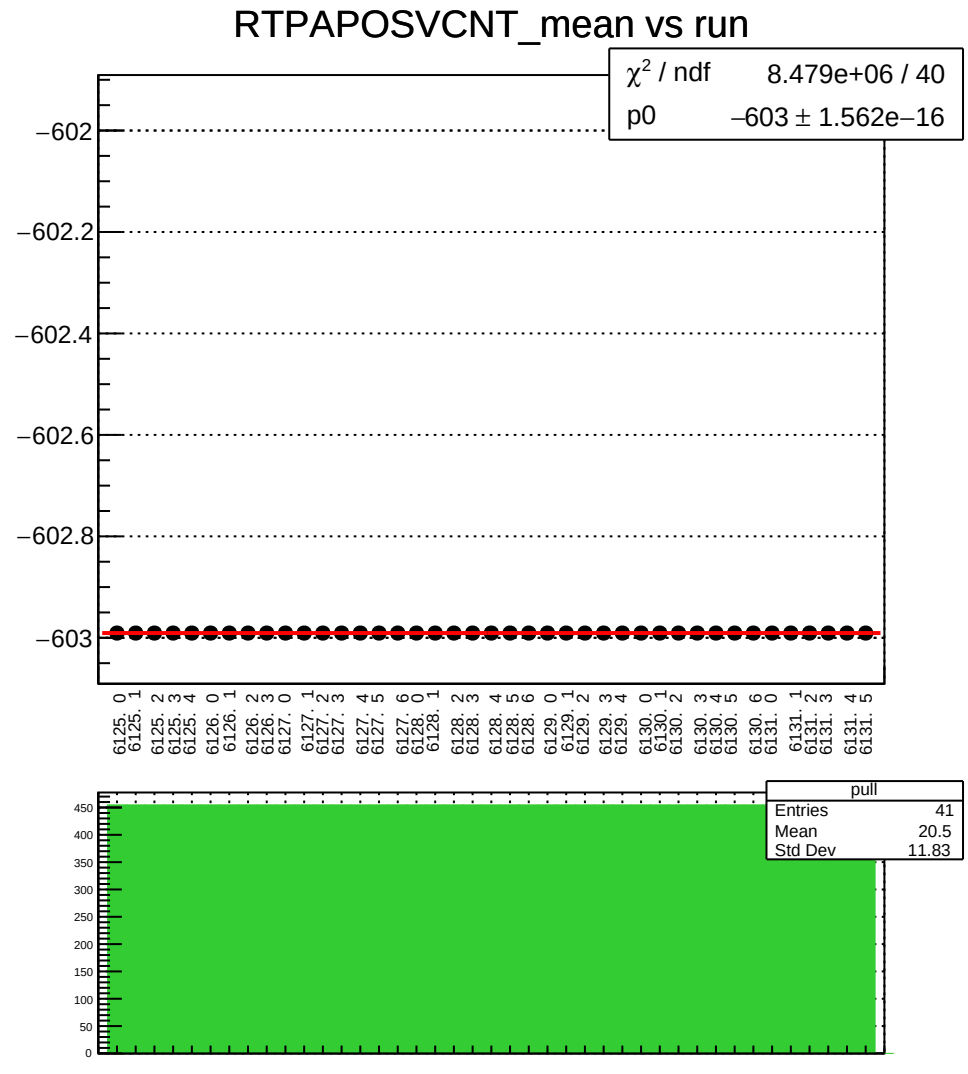

Phi_FG_mean vs run
χ² / ndf 0 / 40
p0 89.96 ± 1.562e−16
91
90.8
90.6
90.4
90.2
90
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 41
Mean 0
Std Dev 0
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

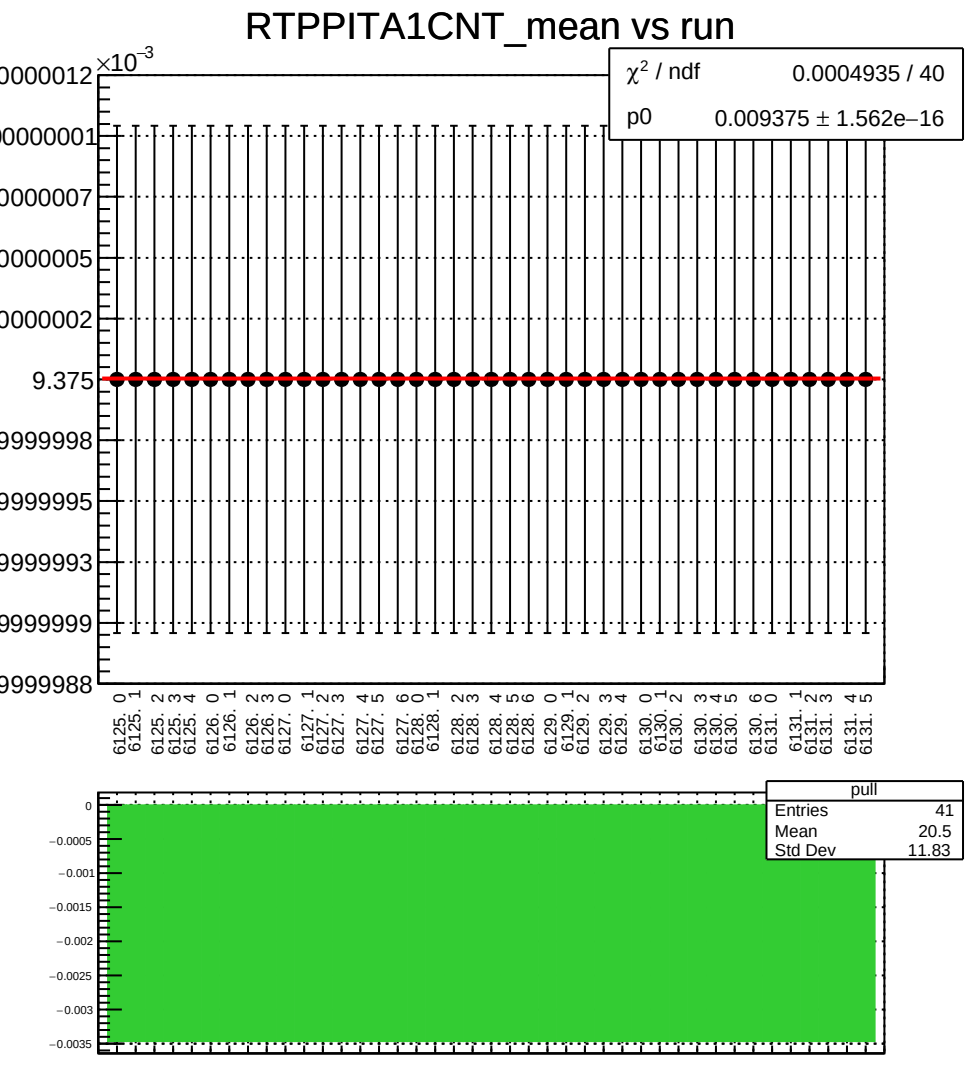

IGL1I00DI24_24M_mean vs run
χ² / ndf 5.175e+04 / 40
p0 16.01± 1.562e−16
17
16.8
16.6
16.4
16.2
16
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 20.5
Std Dev 11.83
0
−5
−10
−15
−20
−25
−30
−35
pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

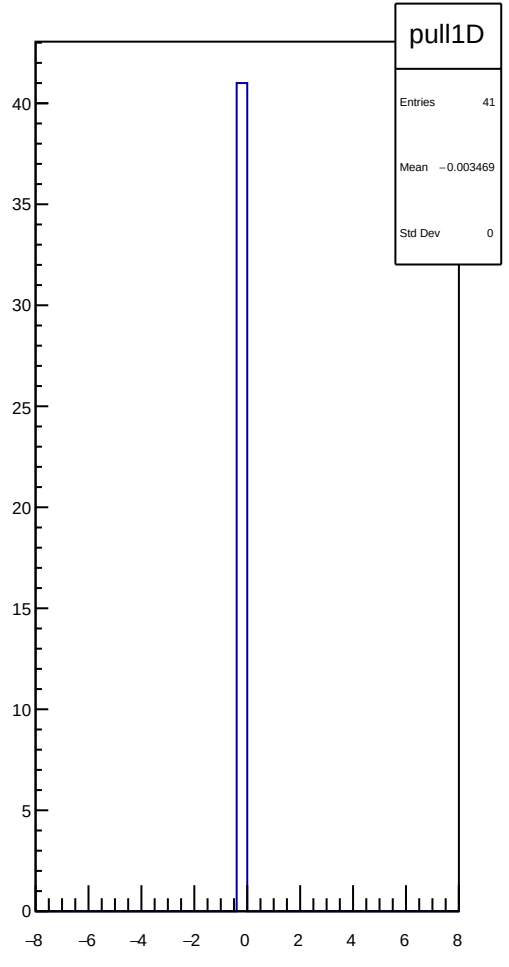

IGL1I00OD16_16_mean vs run
χ² / ndf 8280 / 40
p0 17.01± 1.562e−16
18
17.8
17.6
17.4
17.2
17
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 20.5
Std Dev 11.83
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

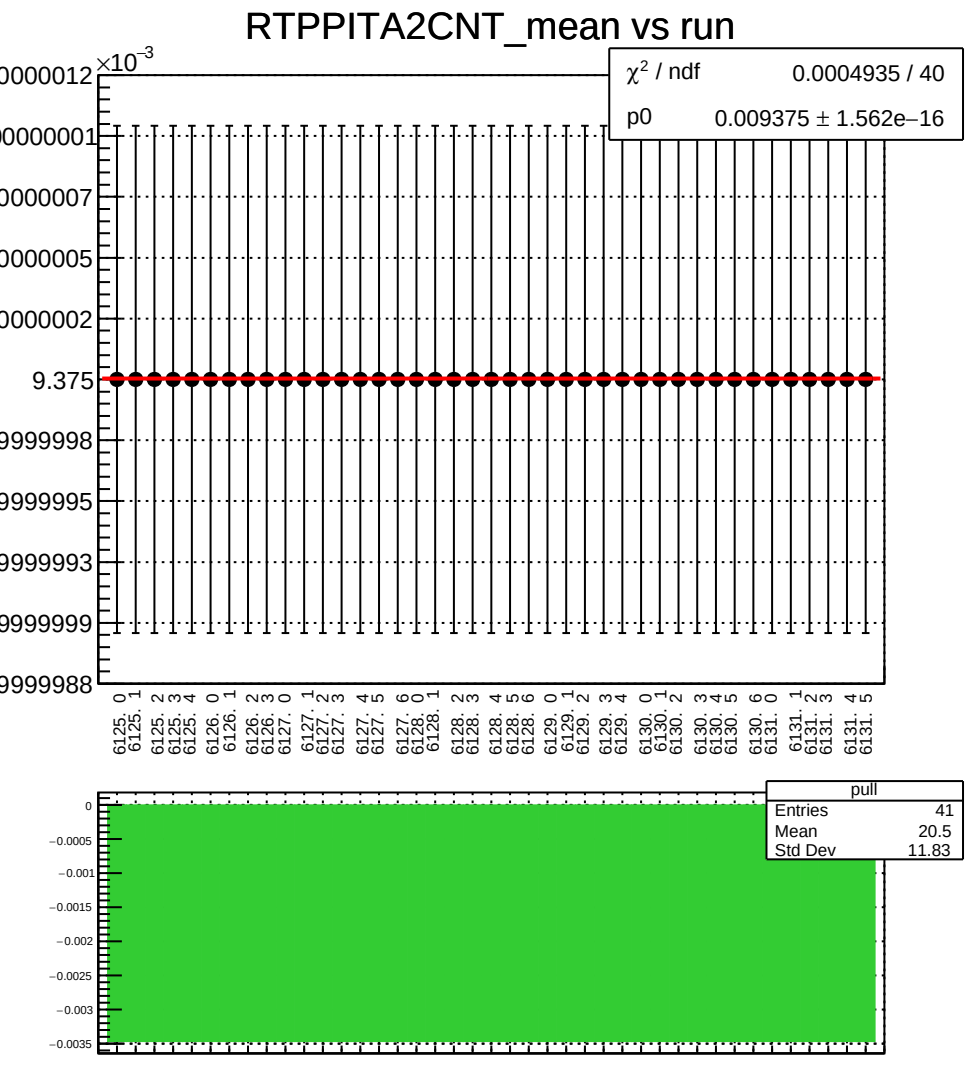

RTPAPOSUCNT_mean vs run
χ² / ndf 8.956e+07 / 40
p0 913 ± 1.562e−16
914
913.8
913.6
913.4
913.2
913
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 20.5
Std Dev 11.83
0
−200
−400
−600
−800
−1000
−1200
−1400

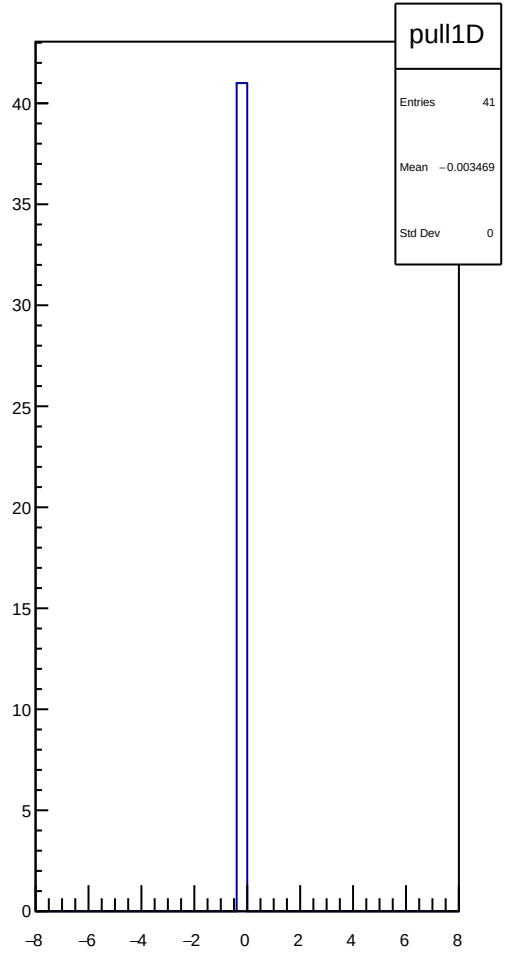

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 8.479e+06 / 40
p0 −603 ± 1.562e−16
−602
−602.2
−602.4
−602.6
−602.8
−603
6125. 0
6125. 1
6125. 2
6125. 3
6125. 4
6126. 0
6126. 1
6126. 2
6126. 3
6127. 0
6127. 1
6127. 2
6127. 3
6127. 4
6127. 5
6127. 6
6128. 0
6128. 1
6128. 2
6128. 3
6128. 4
6128. 5
6128. 6
6129. 0
6129. 1
6129. 2
6129. 3
6129. 4
6130. 0
6130. 1
6130. 2
6130. 3
6130. 4
6130. 5
6130. 6
6131. 0
6131. 1
6131. 2
6131. 3
6131. 4
6131. 5
pull
Entries 41
Mean 20.5
Std Dev 11.83
450
400
350
300
250
200
150
100
50
0
pull1D
Entries 41
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 0.0004935 / 40
p0 0.009375 ± 1.562e−16
×10⁻³
pull
Entries 41
Mean 20.5
Std Dev 11.83


pull1D
Entries 41
Mean −0.003469
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.0004935 / 40
p0 0.009375 ± 1.562e−16
×10⁻³
pull
Entries 41
Mean 20.5
Std Dev 11.83


pull1D
Entries 41
Mean −0.003469
Std Dev 0